TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SEE SHEET NO. 1A
FOR INDEX

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.	NH-115(54)	
STATE PROJ. NO.	47026-3279-14	

KNOX COUNTY

S.R. 115 (U.S. 129, ALCOA HIGHWAY)
FROM NORTH OF MALONEY ROAD
TO WOODSON DRIVE

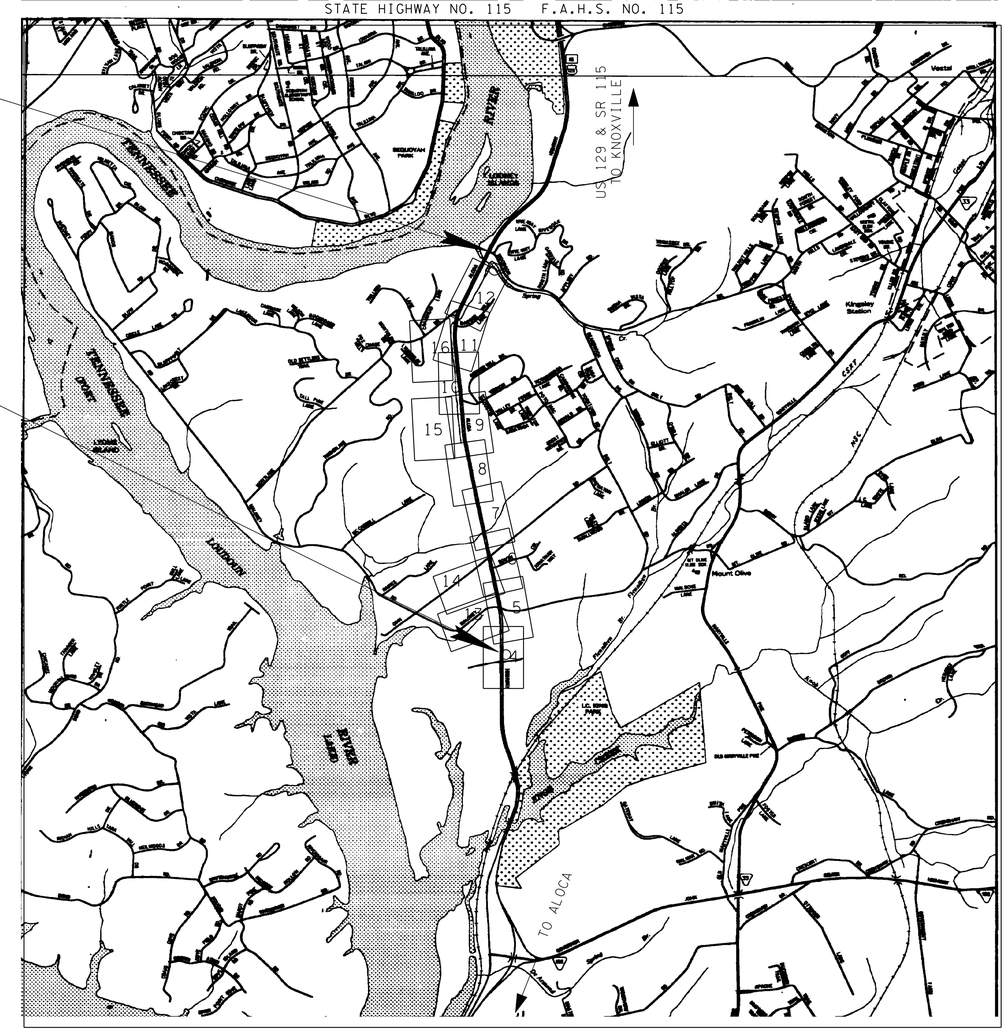
CONSTRUCTION

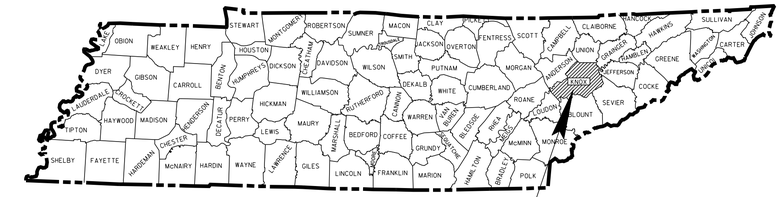
GRADE, DRAIN, BRIDGES, SIGNS AND PAVING

STATE HIGHWAY NO. 115 F.A.H.S. NO. 115

END FEDERAL PROJECT NO.
NH-115(54) (CONST.)
END STATE PROJECT NO.
47026-3279-14 (CONST.)
STA. 12+721.500
N 178586.7301
E 784707.1636
ADJACENT CONSTRUCTION
PROJECT STP-NHE-115(29)

BEGIN FEDERAL PROJECT NO.
NH-115(54) (CONST.)
BEGIN STATE PROJECT NO.
47026-3279-14 (CONST.)
STA. 10+000.000
N 175940.2493
E 784779.7333
ADJACENT CONSTRUCTION
PROJECT STP-NHE-115(27)





PROJECT LOCATION
KNOX COUNTY
CONST. 47026-3279-14

N

NO EQUATIONS
NO EXCLUSIONS

SEALED BY

METRIC

0 1.0 km 2.0 km

1:20,000

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

DATE OF ORIGINAL SURVEY FALL 96
DATE OF SURVEY UPDATE MAY 99
DATE OF SURVEY UPDATE AUG. 2014

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT CIVIL
ENGINEERING MANAGER 1 ERIC WILSON, P.E.
DESIGNED BY VAUGHN & MELTON CONSULTING ENGINEERS
DESIGNER JASON ELLIOTT, P.E. CHECKED BY JM MILLER

P.E. NO. 47026-1263-04

PIN NO. 100241.04

TRAFFIC DATA	
AADT (2016)	51,970
AADT (2036)	73,450
DHV (2036)	8,604
D	52 - 48
T (AADT)	13%
T (DHV)	9%
V	100 km/h(60mph)

ROADWAY LENGTH 2.722 /1.691 KILOMETERS/MILES
BRIDGE LENGTHS 0.2247/0.140 KILOMETERS/MILES
PROJECT LENGTH 2.722 /1.691 KILOMETERS/MILES

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

Survey & Design Division
9/30/2015 k:\tr\00_Transportation\29701-01\Title-Sheet\knsr115-001.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	1A1

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

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NATURAL STREAM DESIGN PLAN	NS-1 – NS-x
NO PROJECT COMMITMENTS SHEET INCLUDED IN THIS SET OF PLANS	

STANDARD ROADWAY DRAWINGS

STANDARD BRIDGE DRAWINGS

BRIDGE APPURTENANCES ENGLISH (NEW STRUCTURES)

DWG. NO.	REV.	DESCRIPTION
STD-8-4		SIGN, LUMINAIRE AND TRAFFIC SIGNAL SUPPORTS
STD-9-1	10-07-08	REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS

BRIDGE APPURTENANCES ENGLISH (BOX CULVERTS)

DWG NO	REV.	DESCRIPTION
STD-15-1	11-06-08	INDEX OF DRAWINGS AND TERMINOLOGY
STD-15-2	03-28-08	GENERAL NOTES
STD-15-3	02-28-03	DESIGN SECTION LIMITS
STD-15-4	12-07-01	TYPICAL SECTION AND DETAILS
STD-15-5	02-28-03	TYPICAL ELEVATION
STD-15-6	03-28-08	CURB AND RAIL DETAILS - SKEW NOT LESS THAN 45 DEG.
STD-15-8	12-07-01	INTERIOR WALL END TREATMENTS
STD-15-9	02-28-03	TYPICAL WINGWALL DETAILS AND NOTES
STD-15-10	11-06-08	WINGWALL DIMENSIONS AND QUANTITIES
STD-15-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-15-12	03-28-08	WINGWALL & SPECIAL RETAINING WALL DESIGN SECTION
STD-15-13		WINGWALL DESIGN SECTION
STD-15-14	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-15-15		BACKFILL AND DRAINAGE DETAILS
STD-15-19		SIDEWALK AND MISCELLANEOUS DETAILS
STD-15-20		WARPED SLOPE DETAIL
STD-15-24	12-07-01	END SECTION DETAILS
STD-15-25	11-01-10	PRECAST BOX CULVERT DETAILS
STD-15-26		PRECAST BOX CULVERT DETAILS
STD-15-27		PRECAST BOX CULVERT DETAILS
STD-15-28		PRECAST BOX CULVERT DETAILS
STD-15-39		BOX BRIDGE INTERIOR SECTION

NOTE: THE CONSULTANT WAS RESPONSIBLE IN DEVELOPING THIS PROJECT IN A METRIC FORMAT. SINCE METRIC STANDARD DRAWINGS ARE NO LONGER AVAILABLE, THE CONTRACTOR WILL BE REQUIRED TO CONVERT ENGLISH STANDARD DRAWINGS AS ESTABLISHED ON THE PLANS TO METRIC AS APPLICABLE.

ROADWAY DESIGN STANDARDS

DWG NO	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	05-27-01	UNDERDRAIN LATERAL DETAILS
RD-UD-6	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 1:1 & 2:1 SLOPES
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-9	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-S-11B	10-15-02	DESIGN AND CONSTRUCTION DETAILS FOR ROCK CUT SLOPE AND CATCHMENT
RD01-SA-1	10-15-02	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN & SLOPE PROTECTION
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-2	10-15-02	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
RD01-TS-2B	10-15-02	DESIGN STANDARDS 4 AND 6 LANE COLLECTOR HIGHWAYS WITH FLUSH MEDIANS
RD01-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS
RD01-TS-3C	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS

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ENGLISH STANDARD DRAWINGS ARE TO BE USED ON THIS PROJECT

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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STANDARD ROADWAY DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	1A2

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

DWG. NO	REV.	DESCRIPTION
RD01-TS-4	07-23-13	DESIGN STANDARDS 1 AND 2 LANE RAMPS
RD01-TS-5B	10-15-02	DESIGN STANDARDS FREEWAYS WITH MEDIAN BARRIER
RD01-TS-6	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER
RD01-TS-9	06-15-12	DESIGN STANDARDS FOR SINGLE LANE URBAN AND RURAL ROUNDABOUTS

DRAINAGE - CULVERTS AND ENDWALL

DWG. NO	REV.	DESCRIPTION
D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	01-29-14	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE, 36" TO 78"
D-PE-4	04-23-15	STRAIGHT TYPE CONCRETE ENDWALL
D-PE-18A	01-06-15	18" CONCRETE ENDWALL CROSS DRAIN
D-PE-18B		18" CONCRETE ENDWALL CROSS DRAIN
D-PE-24A	01-06-15	24" CONCRETE ENDWALL CROSS DRAIN
D-PE-24B		24" CONCRETE ENDWALL CROSS DRAIN
D-PE-30A	01-06-15	30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-30B		30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36A	06-14-13	36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36B		36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42A	06-14-13	42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42B		42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48A	06-14-13	48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48B		48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLS (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PS-1	03-15-76	STRUTTING DETAILS FOR CORR. METAL & STRUCTURAL PLATE ROUND PIPE
D-SEW-1A	06-14-13	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE GRATE

DRAINAGE-CATCH BASINS AND MANHOLES

DWG. NO	REV.	DESCRIPTION
D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RB	03-11-14	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RC	03-11-14	STANDARD PRECAST 84" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-14P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 14RB CATCH BASIN
D-CB-14S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 14 CATCH BASIN
D-CB-25LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 25LP CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-26P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 26 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-26S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 26 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-41LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 41LP CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41P	03-11-14	STANDARD 4' X 3' PRECAST RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41S	03-11-14	STANDARD 4' X 3' RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-42RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-43R	03-11-14	STANDARD PRECAST CIRCULAR NO. 43R CATCH BASIN
D-CB-43SB	03-11-14	STANDARD 8' X 4' RECTANGULAR CONCRETE NO. 43SB CATCH BASIN
D-CB-43SC	03-11-14	STANDARD 8' X 5'2" RECTANGULAR CONCRETE NO. 43SC CATCH BASIN
D-CB-44SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 44 CATCH BASIN
D-CB-99	05-20-14	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CB-99R	03-11-14	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-CB-99RA	03-19-14	BILL OF STEEL FOR ROUND CATCH BASINS
D-CB-99RB		ROUND JUNCTION BOX AND SPRING DRAIN BOX
D-CBB-12A	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16, & 17 TYPE CATCH BASINS
D-CBB-12B	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & 6" MOUNTABLE INLET DETAILS FOR NOS. 25, 26 & 27 TYPE CATCH BASINS
D-CBB-31	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & INLET DETAILS FOR NOS. 31, 41, 45, 46, & 51 TYPE CATCH BASINS
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-JBS-1	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 1 JUNCTION BOX
D-JBS-2	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX
D-JBS-5	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 5 JUNCTION BOX
D-MH-2	08-01-12	STANDARD MASONRY & PRECAST NO. 3 MANHOLE
D-MH-3	04-21-14	STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE
D-MH-4	04-01-14	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-MH-5	04-01-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 3 MANHOLE
D-MH-6	04-01-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 3 MANHOLE
D-MH-7	04-01-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 3 MANHOLE
D-RF-1		STANDARD PRECAST RISER
D-SDS-1	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 1 SPRING DRAIN BOX

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ENGLISH STANDARD DRAWINGS ARE TO BE USED ON THIS PROJECT

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	1A3

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

STANDARD ROADWAY DRAWINGS

ROADWAY AND PAVEMENT APPURTENANCES

DWG. NO	REV.	DESCRIPTION
RP-D-15	07-15-08	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	07-15-08	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-H-3	01-30-15	CURB RAMP AND TRUNCATED DOME SURFACE DETAIL
RP-H-4	01-30-15	PERPENDICULAR CURB RAMP
RP-H-5	01-30-15	PARALLEL CURB RAMP
RP-H-6	01-30-15	PEDESTRIAN REFUGE
RP-H-7	01-30-15	PERPENDICULAR CURB RAMP IN CURVE
RP-H-8	06-04-13	PERPENDICULAR CURB RAMP TYPE 2
RP-H-9	01-30-15	PARALLEL CURB RAMP IN CURVE
RP-I-5	07-01-01	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-J-9	02-02-12	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT
RP-J-11	07-29-96	3/4" AND 1-3/4" EXPANSION AND EDGE PAVEMENT JOINTS
RP-J-13	03-20-91	3/4" AND 1-3/4" ELASTOMERIC COMPRESSION JOINT SEALS
RP-J-15	01-19-02	LONGITUDINAL CONTRACTION AND CONSTRUCTION JOINTS
RP-MC-1	02-28-02	STANDARD 4" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
RP-R-2		STANDARD CONSTRUCTION DETAILS FOR ROUNDABOUTS
RP-S-7	06-04-13	DETAILS FOR STANDARD CONCRETE SIDEWALKS

SAFETY APPURTENANCES AND FENCE

DWG. NO	REV.	DESCRIPTION
S-BPR-1	06-04-14	BIKE/PEDESTRIAN SAFETY RAIL
S-CC-1		CRASH CUSHION
S-CC-2		CRASH CUSHION (GATING) BARREL ARRAY
S-CZ-1		CLEAR ZONE CRITERIA
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-F-10B	05-14-10	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-F-10C	05-14-10	RIGHT-OF-WAY FENCE AT BRIDGES AND BOX CULVERTS
S-F-10D		RIGHT-OF-WAY FENCE LOCATIONS AT INTERCHANGES
S-FG-20	01-24-08	EXAMPLES OF WATER GATES AND WATER CROSSINGS
S-GR-31-1	12-01-14	W-BEAM GUARDRAIL
S-GR-31-2		MEDIAN DIVIDER GUARDRAIL
S-GRA-1		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL
S-GRA-1A		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL (ALTERNATIVE)
S-GRA-3	05-01-15	GUARDRAIL ANCHOR FOR TYPE 21, 13 AND IN-LINE TERMINALS
S-GRA-4		IN-LINE GUARDRAIL ANCHOR
S-GRS-1		SPECIAL CASE: LONG SPAN GUARDRAIL - ONE SPAN OMITTED
S-GRS-2		SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRS-4		SPECIAL CASE: GUARDRAIL HEIGHT TRANSITION DETAIL
S-GRC-1		GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRC-2	04-11-14	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
S-GRT-1		TYPE 12 GUARDRAIL TERMINAL (BURIED-IN-BACKSLOPE)
S-GRT-2	11-03-14	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRT-2R		EARTH PAD FOR TYPE 38 TERMINAL (RETROFIT)
S-GRT-3		TYPE 21 GUARDRAIL TERMINAL
S-GRT-3D		TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GRT-3P		EARTH PAD FOR TYPE 21 TERMINAL
S-GRT-4	04-23-15	TYPE 13 GUARDRAIL TERMINAL (TRAILING END)
S-PL-1	02-02-15	SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2		SAFETY PLAN AT SIDE ROADS OR PRIVATE DRIVES
S-PL-3		SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-4	04-11-14	SAFETY PLAN FOR BRIDGE PIERS IN CLEAR ZONE
S-PL-6	12-01-14	SAFETY PLAN: SAFETY HARDWARE PLACEMENT
S-RP-2	01-19-99	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
S-SSMB-1	08-19-13	32" SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-2	08-19-13	51" SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-3	07-16-13	51" HALF SIZE SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-5		SINGLE SLOPE MEDIAN BARRIER WALL CATCH BASIN DETAIL
S-SSMB-6	10-24-13	GUARDRAIL ATTACHMENT TO SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-7	05-10-14	FOOTING DETAILS FOR OVERHEAD SIGN STRUCTURE 32" MEDIAN BARRIER WALL
S-SSMB-8	05-20-14	FOOTING DETAILS FOR OVERHEAD SIGN STRUCTURE 51" MEDIAN BARRIER WALL
S-SSMB-9	07-16-13	SINGLE SLOPE BARRIER WALL FOR GRADE SEPARATED MEDIAN

TRAFFIC CONTROL APPURTENANCES

DWG. NO	REV.	DESCRIPTION
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-5	04-23-13	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-6	06-22-12	MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-8	01-12-12	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-9	11-01-11	MARKING DETAILS FOR RAMP INTERSECTIONS
T-M-15A	01-30-15	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-16	01-30-15	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-17	02-20-14	PAVEMENT MARKING DETAILS FOR ROUNDABOUTS
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-13-09	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-13	03-13-09	TWO-OUTSIDE LANE CLOSURE ON FREEWAY OR EXPRESSWAY
T-WZ-15	04-02-12	INTERIOR LANE CLOSURE ON FREEWAYS OR EXPRESSWAYS
T-WZ-16	03-13-09	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-18	03-13-09	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-21	03-15-11	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
T-WZ-30	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)
T-WZ-36	04-02-12	LANE CLOSURE ON LOW-VOLUME 2-LANE HIGHWAY

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	1A4

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-1	01-01-12	DEWATERING STRUCTURE
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-7	08-01-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-8	08-01-12	FILTER SOCK
EC-STR-11	08-01-12	CULVERT PROTECTION TYPE 1
EC-STR-11A	08-01-12	CULVERT PROTECTION TYPE 2
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-33	08-01-12	SUSPENDED PIPE DIVERSION (DOWNSTREAM)
EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSION (UPSTREAM)
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	08-01-12	SEDIMENT TUBE
EC-STR-39	08-01-12	CURB INLET PROTECTION TYPE 1 & 2
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STR-41	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-42	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-43	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 3)
EC-STR-43A	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 3) SLIPCOVER DETAILS
EC-STR-44	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 4)
EC-STR-44A	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 4) SLIPCOVER DETAILS
EC-STR-45	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 5)
EC-STR-45A	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 5) SLIPCOVER DETAILS
EC-STR-46	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 6)
EC-STR-46A	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS
EC-STR-47	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 7)
EC-STR-47A	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS
EC-STR-48	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 8)

DWG. NO	REV.	DESCRIPTION
EC-STR-48A	04-15-04	CATCH BASIN FILTER ASSEMBLY (TYPE 8) SLIPCOVER DETAILS
EL-W-2	05-27-01	STANDARD GRAVITY-TYPE RETAINING WALLS

DWG. NO	REV.	DESCRIPTION
TRAFFIC OPERATIONS STANDARD DRAWINGS		
LIGHTING AND UTILITY POLE APPURTENCES		
T-L-1	12-04-13	STANDARD LIGHTING DETAILS - FOUNDATIONS
T-L-1SA	09-11-13	STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS
T-L-2	12-04-13	FOUNDATION DETAIL FOR LUMINAIRE MOUNTED ON A CONCRETE MEDIAN BARRIER
T-L-3	04-15-96	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	05-25-11	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION
SIGNING APPURTENCES		
T-S-6	02-12-91	MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE ROUTES AND ARROWS
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-12	05-27-03	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-20-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	08-17-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-15	12-07-90	STANDARD CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
T-S-16	06-05-14	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	11-01-11	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-S-21	02-28-13	DETAILS FOR SIGNS MOUNTS ON CONCRETE MEDIAN BARRIERS
T-S-23A	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY SQUARE TUBE SIGN SUPPORT
T-S-23B	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY STRUCTURAL PIPE SIGN SUPPORT
T-S-23C	07-19-13	BREAKAWAY U-POST SIGN SUPPORTS

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105M01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	109M10.01	TRAINEE	HOUR	6,000
1,50	201M01	CLEARING AND GRUBBING	LS	1
2	202M01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
3,5,37	203M01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	m3	329,012
37	203M02.02	BORROW EXCAVATION (GRADED SOLID ROCK)	m3	31,665
37	203M03	BORROW EXCAVATION (UNCLASSIFIED)	m3	201,683
37	203M05	UNDERCUTTING	m3	2,640
4	203M06	WATER	m3	31,156
	203M07	FURNISHING & SPREADING TOPSOIL	m3	29,442
38	203M08	CHANNEL EXCAVATION (UNCLASSIFIED)	m3	
51	203M40.10	TIE-BACK ANCHORS (SOIL)	m	24,346
51	203M40.11	TIE-BACK ANCHORS (ROCK)	m	15,039
51	203M40.13	SUPPLEMENTAL WALERS	EACH	4
51	204M14	CORE DRILLING FOR PILES(ROCK)	m	2,357
51	204M15	CORE DRILLING FOR PILES(SOIL)	m	5,132
51	204M08	FOUNDATION FILL MATERIAL	m3	41
6	209M02.05	300mm TEMPORARY SLOPE DRAIN	m	563
6	209M03.22	FILTER SOCK (450m)	m	280
6	209M03.23	FILTER SOCK (600m)	m	46
6	209M05	SEDIMENT REMOVAL	m3	5,603
6,39	209M08.02	TEMPORARY SILT FENCE (WITH BACKING)	m	11,959
6	209M08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	m	14,650
6	209M08.07	ROCK CHECK DAM	EACH	354
6	209M08.08	ENHANCED ROCK CHECK DAM	EACH	92
6	209M08.09	FILTER SOCK CHECK DAM	EACH	22
6	209M09.01	SANDBAGS	BAG	17,565
6	209M09.04	SEDIMENT FILTER BAG (4572mm X 3048mm)	EACH	24
6	209M09.41	CURB INLET PROTECTION (TYPE 2)	EACH	100
6	209M09.43	CURB INLET PROTECTION (TYPE 4)	EACH	50
6	209M10.01	(0.75m x 10m x 5m) TEMPORARY DEWATERING STRUCTURE	m3	5
6	209M10.20	TEMPORARY SEDIMENT TRAP WITH CHECK DAM	m3	10
6	209M20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	m2	447
6	209M40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	93
6	209M40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	10
6	209M40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	34
6	209M40.43	CATCH BASIN FILTER ASSEMBLY(TYPE 3)	EACH	11
6	209M40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	2
6	209M40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	6
6	209M40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	136
6	209M40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	2
6	209M40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH	1
8	301M01	MINERAL AGGREGATE TY A BASE, GRADING D	TONNE	136,584
	303M01.01	GRANULAR BACKFILL (ROADWAY)	TONNE	5,823
51	303M01.03	GRANULAR BACKFILL (RETAINING WALLS)	TONNE	1,278
	303M02	BACKFILLING	TONNE	1,563
6,7	303M10.01	MINERAL AGGREGATE (SIZE 57) (96 ex cb)	TONNE	21,803
	303M10.02	MINERAL AGGREGATE (SIZE 2)	TONNE	100
	307M01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TONNE	2,495
	307M01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TONNE	6,344
	307M02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TONNE	24,776
	307M02.02	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A-S	TONNE	601
	307M02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TONNE	17,868
	307M02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TONNE	12,415
	402M01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TONNE	219
	402M02	AGGREGATE FOR COVER MATERIAL (PC)	TONNE	768
	403M01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TONNE	14
	411M01.07	ACS MIX(PG64-22) GRADING E SHOULDER	TONNE	1,577

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	411M01.10	ACS MIX(PG64-22) GRADING D	TONNE	4,345
	411M12.01	RUMBLE STRIPS	m	10,888
	411M02.10	ACS MIX(PG70-22) GRADING D	TONNE	7,195
	411M12.03	SCORING PAVEMENT	km	1.09
	415M01.02	COLD PLANING BITUMINOUS PAVEMENT	m2	120
49	604M01.01	CLASS A CONCRETE (ROADWAY)	m3	328
	604M01.02	STEEL BAR REINFORCEMENT (ROADWAY)	kg	39,017
	604M01.04	BIKE/PEDESTRIAN SAFETY RAIL	m	135
19	604M07.01	RETAINING WALL	m2	98.9
19	604M07.02	RETAINING WALL	m2	87
19	604M07.05	RETAINING WALL	m2	192.5
19,51	604M07.07	RETAINING WALL	m2	1,166
19,51	604M07.08	RETAINING WALL	m2	6,678
	604M36	SCARIFYING (or 604-10.5)	m2	500
	604M15.01	PORTLAND CEMENT GROUT	m3	122
51	604M15.02	PORTLAND CEMENT GROUT (5MPa)	m3	8,039
51	606M04.03	STEEL PILES (350mm)	m	7,488
	607M03.02	450mm CONCRETE PIPE CULVERT (CLASS III)	m	1,438
	607M03.03	450mm CONCRETE PIPE CULVERT (CLASS IV)	m	13
	607M03.04	450mm CONCRETE PIPE CULVERT (CLASS V)	m	80
	607M05.02	600mm CONCRETE PIPE CULVERT (CLASS III)	m	2,262
	607M05.03	600mm CONCRETE PIPE CULVERT (CLASS IV)	m	34
	607M06.02	750mm CONCRETE PIPE CULVERT (CLASS III)	m	826
	607M07.02	900mm CONCRETE PIPE CULVERT (CLASS III)	m	849
	607M07.04	900mm CONCRETE PIPE CULVERT (CLASS V)	m	53
	607M09.02	1200mm CONCRETE PIPE CULVERT (CLASS III)	m	387
	607M09.03	1200mm CONCRETE PIPE CULVERT (CLASS IV)	m	184
	607M09.04	1200mm CONCRETE PIPE CULVERT (CLASS V)	m	73
	607M11.03	1500mm CONCRETE PIPE CULVERT (CLASS III)	m	59
	607M11.04	1500mm CONCRETE PIPE CULVERT (CLASS IV)	m	123
	607M13.03	1800mm CONCRETE PIPE CULVERT (CLASS III)	m	289
	607M13.04	1800mm CONCRETE PIPE CULVERT (CLASS IV)	m	120
	607M13.05	1800mm CONCRETE PIPE CULVERT (CLASS V)	m	287
	607M38.02	450mm CORRUGATED METAL PIPE CULVERT (PRECOATED)	m	21
	607M39.02	450mm PIPE CULVERT (SIDE DRAIN)	m	120
	607M39.03	600mm PIPE CULVERT (SIDE DRAIN)	m	62
11	610M07.03	450mm PIPE DRAIN (BRIDGE DRAIN)	m	98
	611M01.04	MANHOLES, > 3m - 5m DEPTH	EACH	1
	611M01.06	MANHOLES, > 6m - 7m DEPTH	EACH	1
	611M01.10	MANHOLES, (> 8m - 9m DEPTH)	EACH	2
	611M01.11	MANHOLES, (> 11m - 12m DEPTH)	EACH	1
	611M02.01	SPRING DRAIN BOX, TYPE 1	EACH	6
	611M02.10	JUNCTION BOX, TYPE 1	EACH	1
	611M02.11	JUNCTION BOX, TYPE 2	EACH	3
	611M02.12	JUNCTION BOX, TYPE 3	EACH	3
	611M07.01	CLASS A CONCRETE (PIPE ENDWALLS)	m3	116
	611M07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	kg	3,844
	611M07.03	STRUCTURAL STEEL (PIPE ENDWALLS)	kg	444
	611M12.02	CATCH BASINS, TYPE 12, > 1m - 2m DEPTH	EACH	30
	611M12.03	CATCH BASINS, TYPE 12, > 2m - 3m DEPTH	EACH	4
	611M14.02	CATCH BASINS, TYPE 14, > 1m - 2m DEPTH	EACH	5
	611M14.03	CATCH BASINS, TYPE 14, > 2m - 3m DEPTH	EACH	1
	611M16.03	CATCH BASINS, TYPE 16, > 2m - 3m DEPTH	EACH	1
	611M25.02	CATCH BASINS, TYPE 25, > 1m - 2m DEPTH	EACH	49
	611M25.03	CATCH BASINS, TYPE 25, > 2m - 3m DEPTH	EACH	14
	611M25.04	CATCH BASINS, TYPE 25, > 3m - 4m DEPTH	EACH	4
	611M26.02	CATCH BASINS, TYPE 26, > 1m - 2m DEPTH	EACH	6
	611M26.03	CATCH BASINS, TYPE 26, > 2m - 3m DEPTH	EACH	1

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ESTIMATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2A1

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	611M41.02	CATCH BASINS, TYPE 41, > 1m - 2m DEPTH	EACH	41
	611M41.03	CATCH BASINS, TYPE 41, > 2m - 3m DEPTH	EACH	16
	611M42.02	CATCH BASINS, TYPE 42, > 1m - 2m DEPTH	EACH	17
	611M42.03	CATCH BASINS, TYPE 42, > 2m - 3m DEPTH	EACH	8
	611M42.05	CATCH BASINS, TYPE 42, > 4m - 5m DEPTH	EACH	1
	611M42.06	CATCH BASINS, TYPE 42, > 5m - 6m DEPTH	EACH	1
	611M42.08	CATCH BASINS, TYPE 42, > 7m - 8m DEPTH	EACH	1
	611M43.02	CATCH BASINS, TYPE 43, > 1m - 2m DEPTH	EACH	1
	611M44.02	CATCH BASINS, TYPE 44, > 1m - 2m DEPTH	EACH	1
	611M44.03	CATCH BASINS, TYPE 44, > 2m - 3m DEPTH	EACH	2
	611M44.07	CATCH BASINS, TYPE 44, > 6m - 7m DEPTH	EACH	3
	611M44.09	CATCH BASINS, TYPE 44, > 8m - 9m DEPTH	EACH	3
	611M45.02	CATCH BASINS, TYPE 45, > 1m - 2m DEPTH	EACH	2
	611M45.03	CATCH BASINS, TYPE 45, > 2m - 3m DEPTH	EACH	5
	621M03.02	450mm TEMPORARY DRAINAGE PIPE	m	1,037
51	621M05.01	TEMPORARY SHORING	m2	7,844
51	624M01.01	LOAD CELLS	EACH	6
51	624M03.01	RETAINING WALL REINFORCING STEEL	kg	95,862
51	625M01.07	PIEZOMETER	m	40
51	625M01.08	INCLINOMETER	m	40
51	625M02.40	DRILLED SHAFT CONCRETE	m3	4,392
	630M01.06	150mm CONCRETE BOLLARD / GUARD POST	EACH	12
	701M01.01	CONCRETE SIDEWALK (100mm)	m2	820
	701M02	CONCRETE DRIVEWAY	m2	813
	701M03	CONCRETE MEDIAN PAVEMENT (SPLITTER ISLANDS)	m2	1,080
	702M01	CONCRETE CURB	m3	73
	702M03	CONCRETE COMBINED CURB & GUTTER	m3	2,946
12	703M01	CEMENT CONCRETE DITCH PAVING	m3	602
	705M01.01	GUARDRAIL AT BRIDGE ENDS	m	164
	705M02.02	SINGLE GUARDRAIL (TYPE 2)	m	2,290
	705M02.03	SINGLE GUARDRAIL (TYPE 2) LONG POST	m	9
	705M03.04	MEDIAN DIVIDER GUARDRAIL AT CONCRETE BARR	m	9
	705M04.02	GUARDRAIL TERMINAL (TYPE 13)	EACH	2
	705M04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	12
	705M04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	9
	705M04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	11
	705M08.13	PERMANENT IMPACT ATTENUATOR NCHRP 350 TL-3	EACH	2
	705M08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	15
20	706M01	GUARDRAIL REMOVED	m	1,025
14				
	707M01.11	CHAIN LINK FENCE (1.8m)	m	4,345
	707M01.12	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 1.8m)	EACH	104
	707M06.01	REMOVAL OF FENCE (WOVEN WIRE)	m	30
	708M02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	116
	709M01.02	RUBBLE STONE RIP-RAP	TONN	42
11	709M05.05	MACHINED RIP-RAP (CLASS A-3)	TONN	635
	709M05.06	MACHINED RIP-RAP (CLASS A-1)	TONN	5,042
	709M05.08	MACHINED RIP-RAP (CLASS B)	TONN	3,000
	709M05.09	MACHINED RIP-RAP (CLASS C)	TONN	184
	710M02	AGGREGATE UNDERDRAINS (WITH PIPE)	m	5,439
	710M05	LATERAL UNDERDRAIN	m	562
	710M06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	29
	711M05.70	SINGLE SLOPE MEDIAN BARRIER WALL	m	1,854
	711M05.71	SGL SLP MED MAR WALL(BR PR PROT)	m	2,965
	711M05.72	SINGLE SLOPE HALF CONCRETE BARRIER WALL	m	1,222
	711M05.76	SINGLE SLOPE HALF CONCRETE BARRIER WALL	m	572
	711M05.77	FLARED S/S CONCRETE MEDIAN BARRIER WALL	m	296

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
15	712M01	TRAFFIC CONTROL	LS	1
15,16	712M02.02	INTERCONNECTED PORTABLE BARRIER RAIL	m	12,192
15,16	712M04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	900
16	712M05.01	WARNING LIGHTS (TYPE A)	EACH	190
16	712M05.03	WARNING LIGHTS (TYPE C)	EACH	260
17	712M06	SIGNS (CONSTRUCTION)	m2	160
21	712M04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	485
18	712M06.16	SIGNS (CONSTRUCTION)(REDUCED SPEED WARNING)	EACH	2
15	712M07.03	TEMPORARY BARRICADES (TYPE III)	m	209
15	712M08.03	ARROW BOARD (TYPE C)	EACH	4
	712M08.06	UNIFORMED POLICE OFFICER	HOUR	8,400
	712M09.01	REMOVABLE PAVEMENT MARKING LINE	m	160
	713M01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	m3	8
	713M01.02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	kg	1,225
	713M09.01	STEEL OVERHEAD SIGN STRUCTURE (SPAN 22m)	EACH	1
	713M09.02	STEEL OVERHEAD SIGN STRUCTURE (SPAN 17.7m)	EACH	1
	713M09.03	STEEL OVERHEAD SIGN STRUCTURE (SPAN 19.8m)	EACH	1
	713M09.04	STEEL OVERHEAD SIGN STRUCTURE (SPAN 13.9m)	EACH	1
	713M09.05	STEEL OVERHEAD SIGN STRUCTURE (SPAN 17.5m)	EACH	1
	713M09.06	STEEL OVERHEAD SIGN STRUCTURE (SPAN 14.7m)	EACH	1
	713M09.07	STEEL OVERHEAD SIGN STRUCTURE (SPAN 15.9m)	EACH	1
	713M11.01	"U" SECTION STEEL POSTS	kg	372
	713M11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	kg	1,767
	713M11.05	SQUARE TUBE SIGN SUPPORT	kg	250
	713M11.23	64mm DIA SLIP BASE PLATE	kg	1
	713M13.02	FLAT SHEET ALUMINUM SIGNS (2.032mm THICK)	m2	49
	713M13.03	FLAT SHEET ALUMINUM SIGNS (2.540mm THICK)	m2	80
40	713M14	EXTRUDED ALUMINUM PANEL SIGNS	m2	54
	713M15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713M16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	4
	713M17.02	INSTALL AUXILIARY SUPPORT FOR EXIT NUMBER PANEL	EACH	8
22	713M30.09	BARRIER MOUNTED SIGN SUPPORT	EACH	13
	714M01	STRUCTURAL LIGHTING	LS	1
	714M01.01	STRUCTURAL LIGHTING (BRIDGE NO. 1)	LS	1
	714M01.02	STRUCTURAL LIGHTING (BRIDGE NO. 2)	LS	1
	714M01.03	STRUCTURAL LIGHTING (BRIDGE NO. 3)	LS	1
	714M03	JACKED OR BORED CONDUIT	m	154
41	714M03.01	DIRECT BURIAL CONDUIT (50mm PVC, SCHEDULE 40)	m	2,650
42	714M05.03	PULL BOXES (TYPE B)	EACH	185
43	714M06.06	CABLE (1/C # 4 AWG)	m	23,040
44	714M08.01	LIGHT STANDARDS (13.5m M.H., 4.5m ARM)	EACH	91
	714M08.09	LIGHT STANDARDS (13.5m M.H., 2 @ 4.5m ARMS)	EACH	1
	714M08.08	LIGHT STANDARDS (NEW MEDIAN BARRIER MOUNTED)	EACH	39
	714M08.32	REMOVAL OF LIGHT STANDARD & FOUNDATION	EACH	80
	714M09.09	LUMINAIRES (TYPE A - LED)	EACH	80
	714M09.10	LUMINAIRES (TYPE B - LED)	EACH	92
	714M09.11	LUMINAIRES (TYPE C - LED)	EACH	4
45	714M12.01	CONTROL CENTER (NO. 1)	LS	1
	714M12.02	CONTROL CENTER (NO. 2)	LS	1
46	714M12.03	CONTROL CENTER (NO. 3)	LS	1
47	714M12.04	CONTROL CENTER (NO. 4)	LS	1
48	714M25	ELECTRICAL CONNECTION	EACH	4

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

SHEET 2 OF 3

10/1/2015
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2A2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
23	716M01.05	TEMPORARY RAISED PAVEMENT MARKER	EACH	1500
	716M01.21	SNWPLWBLE PVMT MRKS (BI-DIR) (1 COLOR LE	EACH	174
	716M01.22	SNWPLWBLE PVMT MRKS (MONO-DIR) (1 COLOR LE	EACH	1061
	716M02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	m	22
	716M04.01	PLASTIC PAVEMENT MARKING (STR-TURN FISH-HOOK ARROW)	EACH	14
	716M04.04	PLASTIC PAVEMENT MARKING (LANE-REDUCTION ARROW)	EACH	8
	716M04.06	PLASTIC PAVEMENT MARKING (WRONG WAY ARROW)	EACH	1
	716M04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	m	145
	716M05.09	PAINTED PAVEMENT MARKING (STRAIGHT ARROW))	EACH	9
52	716M05.20	PAINTED PAVEMENT MARKING (150mm LINE)	km	9
52	716-05.49	PAINTED PAVEMENT MARKINGS(200mm LINE)	km	9
	716M06.16	(CONSTRUCTION) REDUCED SPEED WARNING	EACH	2
	716M10.01	PREFORMED PLASTIC PAVEMENT MARKING (100mm LINE)	km	18
	716M10.02	PREFORMED PLASTIC PAVEMENT MARKING (200mm BARRIER LN)	m	1255
	716M10.04	PREFORMED PLASTIC PAVEMENT MARKING (CHNLZTN STRIPING)	m2	7388
	716M10.05	PREFORMED PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	8
24	716M10.07	PREFORMED PLASTIC PAVEMENT MARKING (STOP LINE)	m	91
24	716M10.15	PREFORMED PLASTIC PAVEMENT MARKING (150mm LINE)	km	22
	716M10.16	PREFORMED PLASTIC PAVEMENT MARKING (150mm DOTTED LINE)	m	605
	716M12.02	150mm ENHANCED FLATLINE TERMOPLASTIC PVMT MRKING	km	28
	716M13.02	SPRAY THERMO PVMT MARKING (60MIL) (200mm LINE)	km	9
	717M01	MOBILIZATION	LS	1
25	722M01.02	FIELD OFFICE (TYPE 2)	EACH	1
	740M06.01	GEOMEMBRANE	m2	100
26,27	740M10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	m2	2174
	740M10.04	GEOTEXTILE (TYPE IV) STABILIZATION	m2	3563
33	740M11.03	TEMPORARY SEDIMENT TUBE (450mm)	m	33114
33	740M11.05	TEMPORARY SEDIMENT TUBE (600mm)	m	26865
28	801M01	SEEDING (WITH MULCH)	UNIT	197
28	801M01.02	CROWN VETCH MIXTURE (WITH MULCH)	UNIT	100
	801M01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	1997
	801M01.65	TEMPORARY MULCH		
	801M02	SEEDING (WITHOUT MULCH)	UNIT	44
29	801M02.01	CROWN VETCH MIXTURE (WITHOUT MULCH)	UNIT	187
	801M02.08	TEMPORARY SEEDING (WITHOUT MULCH)	UNIT	
30	801M03	WATER (SEEDING & SODDING)	m3	1030
	801M07	SEED (SUPPLEMENTAL APPLICATION)	kg	209
	801M07.01	CROWN VETCH SEED (SUPPLEMENTAL APPLICATION)	kg	225
	801M08	FERTILIZER (SUPPLEMENTAL APPLICATION)	TONNE	4
	802M02.30	SALIX NIGRA(BLACK WILLOW)18-24" IN LENGTH	EACH	27
	802M02.33	SAMBUCUS CANADENSIS (ELDERBERRY)18-24" IN LENGTH	EACH	27
	802M13.01	#5 ALNUS SERRULATA (HAZEL ALDER) 2-5' INHEIGHT, CONTAINER	EACH	14
	802M13.02	#2 CALYCANTHUS FLORIDUS (SWEETSHURB) SEEDLING.BR	EACH	9
	802M13.04	#1 COMUS AMOMUM (SILKY DOGWOOD) SEEDLING, BR	EACH	9
	802M13.09	#4 LINDERS BENZOIN (SPICEBUSH) 2-5' IN HEIGHT, CONTAINERIZED	EACH	15
	802M13.60	#3 SAMBUCUS CANADENSIS (ELDERBERRY) SEEDLING BR	EACH	9
	802M32.02	COMUS AMOMUM (SILKY DOGWOOD) 18-24' IN LENGTH	EACH	27
	803M01	SODDING (NEW SOD)	m2	14112
31	805M12.01	EROSION CONTROL BLANKET (TYPE I)	m2	4338
	805M12.02	EROSION CONTROL BLANKET (TYPE II)	m2	18682
32	806M02.03	PROJECT MOWING	CYCL	8

FOOTNOTES

1 CLEARING AND GRUBBING LIMITS SHALL BE AS DIRECTED BY THE ENGINEER.

2 REMOVAL OF ITEMS INCLUDES NOT LIMITED TO CATCHBASINS MANHOLES, JUNCTON BOXES, PIPES, GUARDRAIL, AND ETC. BID PRICE INCLUDES ALL SLAVAGE VALUE OF MATERIAL. SALVAGE SHALL BECOME PROPERTY OF THE CONTRACTOR.

3 INCLUDES 428 M3 FOR EROSION PREVENTION AND SEDIMENT CONTROL.

4 QUANTITIES TO BE INCREASED OR DECREASED AS DIRECTED BY THE TDOT

5 INCLUDES CHANNEL EXCAVATION FOR BOX CULVERT STA. 10+881.4 AND BOX CULVERT STA. 12+626.430 SEE NOTE 5 OF SPECIAL NOTES FOR CULVERT

6 SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.

7 INCLUDES 65 TONNE FOR USE WITH SEDIMENT FILTER BAG AND DRIVEWAYS.

8 INCLUDES 1500 TONNE FOR MAINTENANCE OF TRAFFIC.

9 FOR OVERLAY AND OBLITERATING PAVEMENT MARKINGS FROM TEMPORARY TRAFFIC CONTROL MARKINGS.

10 SEE SPECIAL PROVISION NO. 411D.

11 STANDARD DRAWING STD-1-7 IS TO BE USED FOR BURIAL OF THE OUTLET PIPE AND FOR END TREATMENT DETAILS.

12 1.8M CONC. DITCH SEE RDM-D-11A.

14 REMOVED GUARDRAIL ITEMS TO BECOME THE PROPERTY OF THE CONTRACTOR.

15 INCLUDES BUT NOT LIMITED TO REMOVE AND REUSE OF ITEMS 705M08.51, 712M02.02, 712M04.01, 712M07.03, 712-M08.03, AND 713M16.01.

16 MAXIMUM ESTIMATED QUANTITY REQUIRED. NO SEPARATE PAYMENT WILL BE MADE FOR RELOCATION AND REUSE. COST SHALL BE INCLUDED IN ITEM 712M01 TRAFFIC CONTROL.

17 INCLUDES THE INSTALLATION AND MANITANCE OF A NEW SIGN PANEL, SHEETING AND SUPPORTS. SEE SPECIAL PROVISION NO.712F.

18 ITEM TO BE USED ONLY WHEN THE CONTRACTOR ESTABLISHES A REDUCED SPEED LIMIT WITHIN THE PROJECT CONSTRUCTION WORK ZONE LIMITS. ITEM INCLUDES SIGN FACE, SUPPORTS, AND TWO TYPE "B" FLASHERS PER THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TURNING ON THE TYPE "B" FLASHERS WHEN WORKERS ARE IN THE CONSTRUCTION WORK ZONE AND TURNING OFF WHEN WORKERS ARE NO LONGER IN THE CONSTRUCTION WORK ZONE

19 EXCAVATION FOR RETAINING WALLS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF ITEMS 604M07.01, 604M07.02, 604M07.03,604M07.04,604M07.05,604M05.06 AND 604MO5.09. SQUARE FOOTAGE IS MEASURED FROM TOP OF FOOTING TO TOP OF WALL.

20 THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD-GUARD, A REACT 350 OR A TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURERS DRAWING.

21 SPACING OF THESE PANELS SHALL BE 60 METERS MAXIMUM.

22 REMOVE SIGN NO. 1 AND APPROXIMATELY 10 EXISTING SIGNS AND SUPPORTS (NO FOOTINGS ON THESE SIGNS) WITHIN THE PROJECT LIMITS OR AS DIRECTED BY THE ENGINEER.

23 A. MISSING RAISED PAVEMENT MARKERS SHALL BE REPLACED:
1) AT LEAST MONTHLY OR
2) AT THE INSTRUCTION OF THE ENGINEER.
B. ALL RAISED PAVEMENT MARKERS SHALL BE REMOVED BEFORE PLACEMENT OF THE FINAL PAVEMENT SURFACE. THE COST OF REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR RAISED PAVEMENT MARKERS.

24 SEE STANDARD INTERSECTION PAVING MARKING TM-M-4

25 THE USE OF THIS TRAILER IS FOR TDOT PERSONNEL ONLY. TRAILER MUST BE INSTALLED WITHIN 6 WEEKS OF THE AUTHORIZATION TO PROCEED WITH THE CONTRACT. TRAILER SHALL BE LOCATED WITHIN 1.6 KILOMETERS OF SR 115 CONSTRUCTION LIMITS.

FOOTNOTES

26 FOR USE WITH ROCK CHECK DAMS AND ENHANCED ROCK CHECK DAMS.

27 INCLUDES 2,000 M2 FOR DITCHES.

28 ITEM NO. 801M01.02 CROWN VETCH MIXTURE (WITH MULCH) SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

29 FOR USE WITH EROSION CONTROL BLANKET TYPE (I&II) SLOPE WITH GRADIENT

30 INCLUDES 180 M3 FOR EROSION PREVENTION AND SEDIMENT CONTROL.

31 LOCATION AS DIRECTED BY THE ENGINEER FOR USE WITH ITEM NO. 801M02.01, CROWN VETCH MIXTURE (WITHOUT MULCH).

32 ITEM INCLUDES LITTER AND TRASH REMOVAL. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE COST OF ITEM 806M02.03, PROJECT MOWING, CYCL.

33 SEE SHEET 90 - 114 FOR CONSTRUCTION SIGN LOCATIONS

34 THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMO PLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.

35 FOR TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS.

36 THE CONTRACTOR HAS THE OPTION OF USING THE PERFORMANCES GRADE MIX OR REGULAR ASPHALT ON THE PAVING OF DRIVEWAYS AND BUSINESS

37 REFER TO SPECIAL NOTES

39 ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER

40 INCLUDES 180kg OF 76mm x 76mm SQUARE TUBE AND 61 kg OF100mm X 100mm SQUARE TUBE.

41 INCLUDES 2600 m OF 50mm CONDUIT IN BARRIER WALL.

42 INCLUDES 35m OF 50mm CONDUIT IN BRIDGE NO. 1 (COLLECTOR NO. 3)

43 INCLUDES 39m OF 50mm CONDUIT IN BRIDGE NO. 2 (COLLECTOR NO. 5)

44 INCLUDES 50m OF 50mm CONDUIT IN BRIDGE NO. 3 (MALONEY ROAD).

45 INCLUDES STANDARD AND TWO 4.5m ARMS

46 TYPE A LUMINARE SHALL BE COOPER NAVION LED LUMINAIRE (NVN-AE-03-E-U-SL4), OR APPPORVED EQUAL.

47 TYPE B LUMINAIRE SHALL BE COOPER NAVION LED LUMINAIRE (NVN-AE-03-E-U-T3), OR APPROVED EQUAL.

48 TYPE C LUMINAIRE SHALL BE COOPER NAVION LED LUMINAIRE (NVN-AE-02-E-U-T3), OR APPROVED EQUAL. LUMINAIRE SHALL BE INSTALLED ON EXISTING KUB POLE.

49 GRAVITY WALLS TOTAL FOR WALLS 3,4 AND 6

50 ITEM INCLUDES THE REMOVAL OF SEDIMENT IN BOC CULVERT STA. 12+626.530.

51 ITEM INCLUDES WALL QUANTITIES FROM SHEET 152

52 FOR TEMPORARY PAVEMENT MARKINGS

ESTIMATED BOX CULVERT QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
604m02.01	CLASS A CONCRETE (BOX CULVERT)	m3	266
604m02.02	STEEL BAR REINFORCEMENT (BOX CULVERT)	kg	38,288

38 CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

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DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

SHEET 3 OF 3

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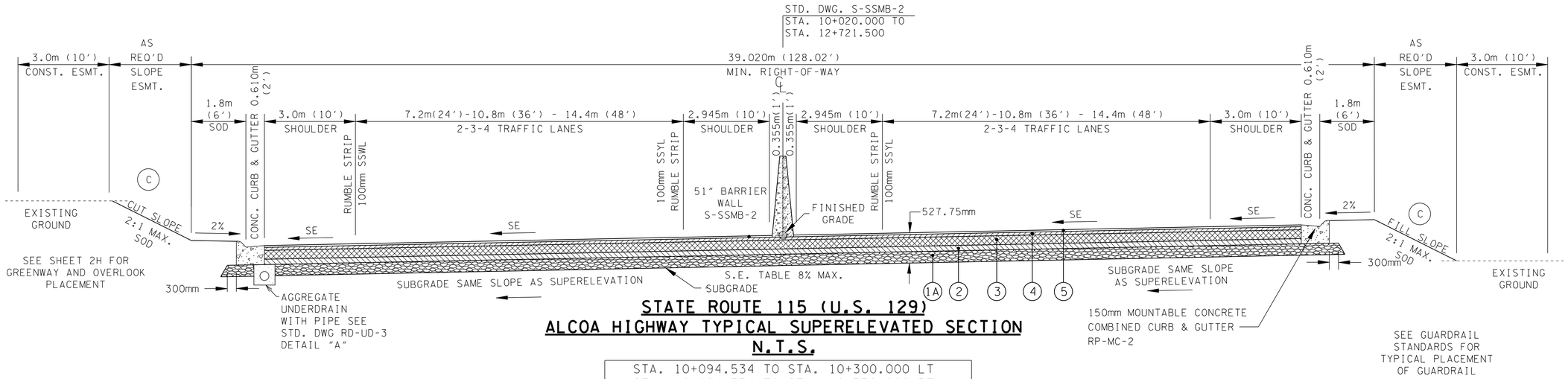
DESIGN DIVISION

FILE NO. ---

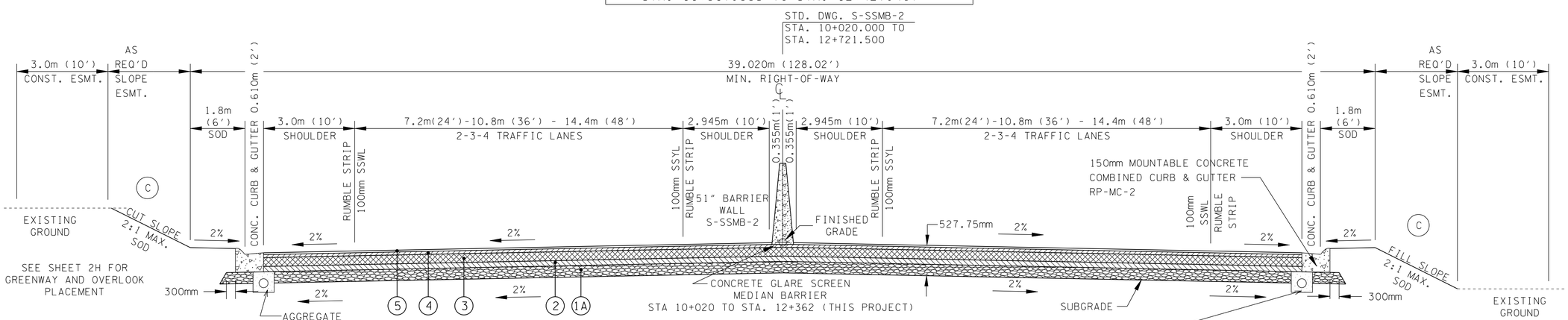
TYPE	YEAR	PROJECTS NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	2
CONST.	2016	47026-3279-14	2D

REV. 28-FEB-2003: REVISED STATION LOCATIONS FOR HORIZONTAL CURVES. REVISED GREENWAY LOCATION.
REV. 22-AUG-2014: REVISED STATION LOCATIONS AND ADDED 8 LANE TYPICAL SECTIONS.



STATE ROUTE 115 (U.S. 129)
ALCOA HIGHWAY TYPICAL SUPERELEVATED SECTION
N.T.S.

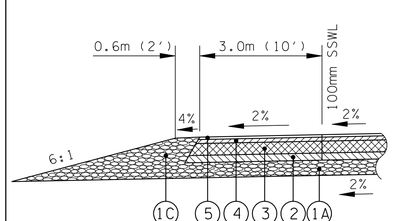
STA. 10+094.534 TO STA. 10+300.000 LT
STA. 10+094.534 TO STA. 10+339.000 RT
STA. 11+311.486 TO STA. 11+615.963 RT
STA. 11+600.000 TO STA. 11+615.963 LT
STA. 11+917.995 TO STA. 12+427.467



STATE ROUTE 115 (U.S. 129)
ALCOA HIGHWAY TYPICAL TANGENT SECTION
N.T.S.

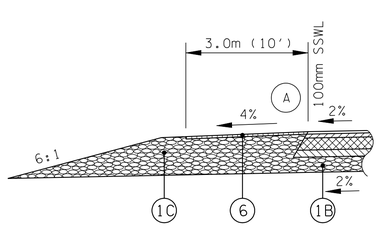
STA. 10+000.000 TO STA. 10+094.534
STA. 10+951.000 TO STA. 11+311.486 RT.
STA. 11+615.963 TO STA. 11+917.995
STA. 12+427.467 TO STA. 12+690.388

SEE SHEET 2L FOR PAVEMENT SCHEDULE



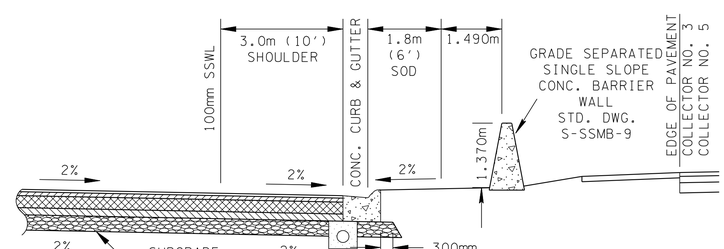
SUBSTITUTE SHOULDER SECTION

STA. 10+000.000 TO 10+300.000 LT.
STA. 10+000.000 TO 10+339.000 RT.



SUBSTITUTE SHOULDER SECTION

STA. 11+360.000 TO 12+690.388 LT.



CONCRETE GLARE SCREEN BARRIER WALL (TYP.)

STA. 11+040 TO STA. 11+560 RT. (COLLECTOR 5)
STA. 12+340 TO STA. 12+598 RT. (COLLECTOR 3)

NOTE: ENGLISH UNITS ARE FOR REFERENCE ONLY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

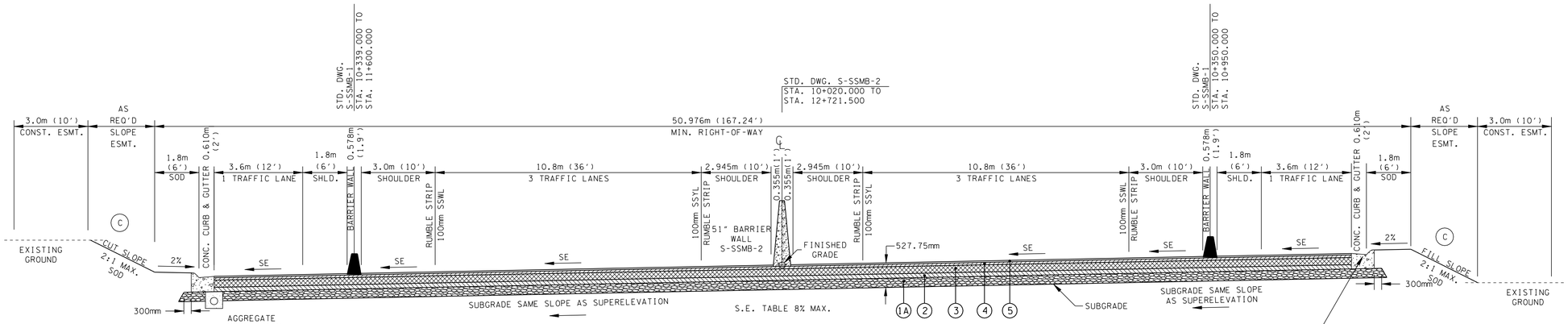
TYPICAL SECTIONS

DESIGN DIVISION

FILE NO. ---

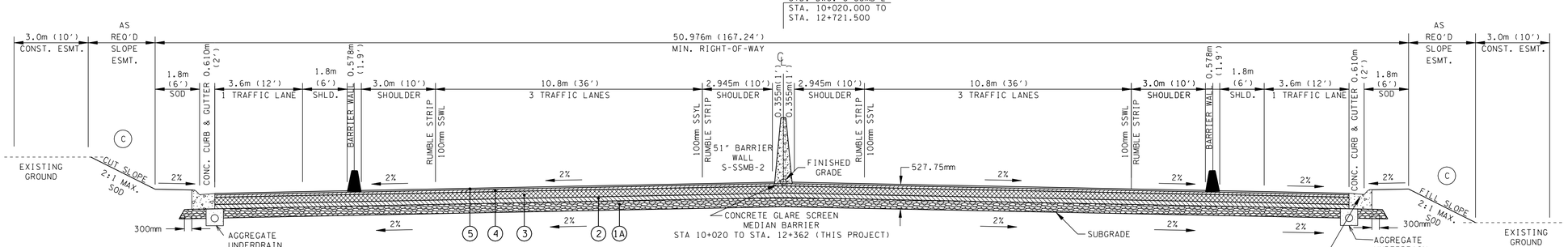
TYPE	YEAR	PROJECTS NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	2A
CONST.	2016	47026-3279-14	2E

REV. 22-AUG-2014: ADDED NEW TYPICAL SECTION AND STATION LOCATIONS.



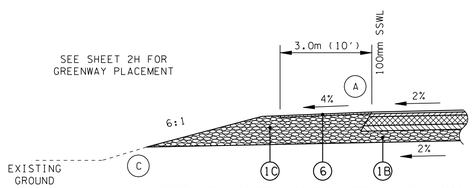
STATE ROUTE 115 (US 129)
ALCOA HIGHWAY TYPICAL SUPERELEVATED SECTION
N.T.S.

STA. 10+300.000 TO 10+528.032 LT
STA. 10+339.000 TO 10+528.032 RT
STA. 11+311.486 TO 11+600.000 LT



STATE ROUTE 115 (US 129)
ALCOA HIGHWAY TYPICAL TANGENT SECTION
N.T.S.

STA. 10+528.032 RT. TO 10+951.000 RT
STA. 10+528.032 LT. TO 11+311.486 LT



SUBSTITUTE SHOULDER SECTION

STA. 11+360 TO 11+600 LT.

SEE SHEET 2L FOR PAVEMENT SCHEDULE

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.

(B) SHOULDER SLOPE ON LOW SIDE EQUAL TO S.E. WHEN S.E. IS GREATER THAN NORMAL SHOULDER SLOPE.

(C) SEE STD. DRAWING RD-S-11 FOR FILL AND CUT SLOPE TABLE (CASE 1) UNLESS NOTED OTHERWISE ON CROSS SECTIONS

(D) SEE STD. DRAWING RD-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPE

TENNESSEE METRIC D.O.T.

NOTE: ENGLISH UNITS ARE FOR REFERENCE ONLY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

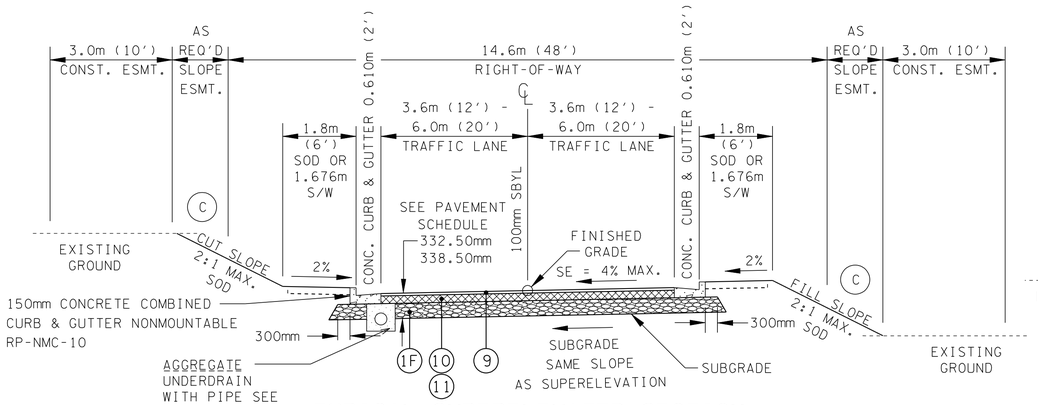
TYPICAL SECTIONS

DESIGN DIVISION

FILE NO. ---

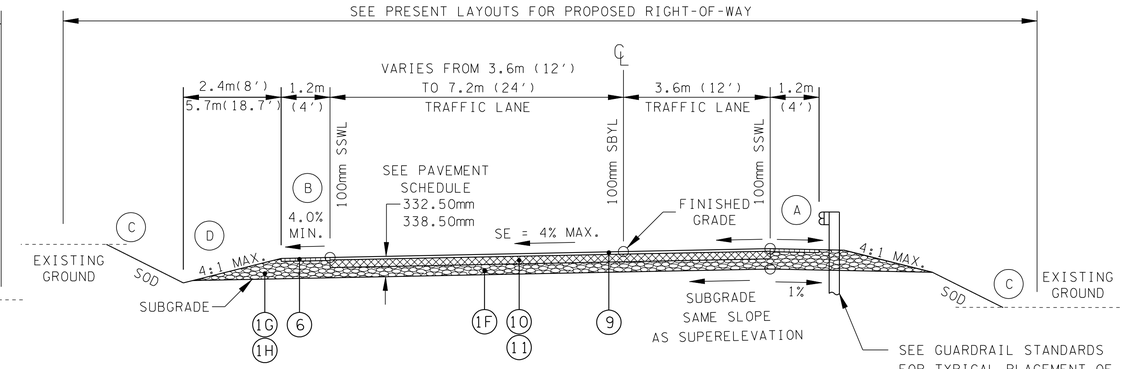
TYPE	YEAR	PROJECTS NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	2AA
CONST.	2016	47026-3279-14	2F

REV. 28-FEB-2003: ADDED STATION LOCATION FOR BUNKER HILL.
REVISED STA. LOCATION FOR SOUTH CIRCLE, DRESSER RD., MALONEY RD., BUNKER HILL, MT. VERNON RD. & GINN RD. RT.
REV. 6-AUG-2008: ADJUSTED END OF BUNKER HILL ROAD FROM 9+351.00 TO 9+347.00.
REV. 22-AUG.-2014: REVISED STATION LIMITS FOR TYPICAL SECTION.



TYPICAL SUPERELEVATED SECTION

(WITH CURB & GUTTER)



TYPICAL SUPERELEVATED SECTION

(WITHOUT CURB & GUTTER)

ROAD/THICKNESS	WITH CURB & GUTTER	WITHOUT CURB & GUTTER	CURB ONLY ON LEFT
COLLECTOR NO. 1 338.5mm			STA. 1+532.962 TO 1+697.360 STA. 1+721.755 TO 1+741.752
SOUTH CIRCLE 332.5mm	STA. 3+023.078 TO 3+040.000	STA. 3+040.000 TO 3+150.000	
DRESSER RD. 332.5mm	STA. 2+023.121 TO 2+064.995		STA. 2+064.995 TO 2+154.936
GINN RD. RT. 332.5mm	STA. 2+823.078 TO 2+835.378 STA. 2+840.259 TO 2+900.000	STA. 2+900.000 TO 2+909.054	
GINN RD. LT. 332.5mm	STA. 2+605.882 TO 2+656.922		
BARBER HILL RD. 332.5mm	STA. 7+504.950 TO 7+560.000	STA. 7+560.000 TO 7+580.000	

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.

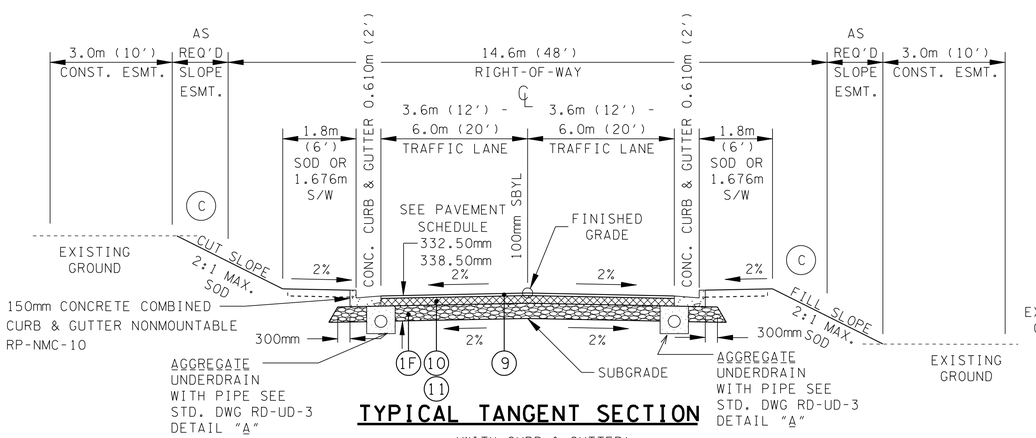
(B) SHOULDER SLOPE ON LOW SIDE EQUAL TO S.E. WHEN S.E. IS GREATER THAN NORMAL SHOULDER SLOPE.

(C) SEE STD. DRAWING RD-S-11 FOR FILL AND CUT SLOPE TABLE (CASE 1) UNLESS NOTED OTHERWISE ON CROSS SECTIONS

(D) SEE STD. DRAWING RD-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPE

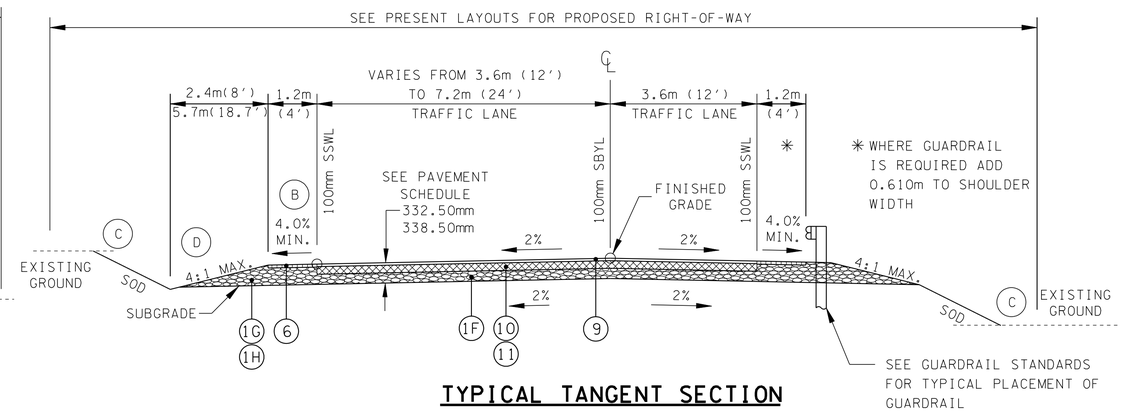
ROAD/THICKNESS	WITH CURB & GUTTER	CURB ONLY ON RIGHT	WITHOUT CURB & GUTTER
MALONEY RD. 338.5mm	STA. 1+060.000 TO 1+080.845	STA. 1+129.551 TO 1+161.689 STA. 1+161.689 TO 1+224.041	STA. 1+033.787 TO 1+060.000
BUNKER HILL 332.5mm			STA. 9+003.900 TO 9+332.300

NOTE:
MALONEY ROAD HAS (3.6m) LANES, STA. 1+060 TO 1+351.232, LEFT SIDE.
BUNKER HILL AND MT. VERNON HAS 1 (3.6m), LEFT SIDE.



TYPICAL TANGENT SECTION

(WITH CURB & GUTTER)



TYPICAL TANGENT SECTION

(WITHOUT CURB & GUTTER)

ROAD/THICKNESS	WITH CURB & GUTTER	WITHOUT CURB & GUTTER	CURB ONLY ON LEFT
COLLECTOR NO. 1 338.5mm			STA. 1+697.360 TO 1+721.755
DRESSER RD. 332.5mm	* STA. 2+228.369 TO 2+368.000		STA. 2+154.936 TO 2+183.111
GINN RD. RT. 332.5mm	STA. 2+835.378 TO 2+840.259	STA. 2+909.054 TO 2+919.000	
GINN RD. LT. 332.5mm	STA. 2+540.000 TO 2+605.882	STA. 2+500.000 TO 2+540.000	

* TRAFFIC LANES STA. 2+227.111 TO 2+368.000 ARE 4.0m(13')

SEE SHEET 2L FOR PAVEMENT SCHEDULE

ROAD/THICKNESS	WITH CURB & GUTTER	CURB ONLY ON LEFT/RIGHT	WITHOUT CURB & GUTTER
MT. VERNON RD. 332.5mm			STA. 9+006.000 TO 9+090.000
BUNKER HILL 332.5mm			STA. 9+332.300 TO 9+347.000
MALONEY RD. 338.5mm	STA. 1+080.845 TO 1+085.127 STA. 1+395.232 TO 1+406.000	STA. 1+129.126 TO 1+129.551 RT STA. 1+312.117 TO 1+351.232 STA. 1+406.000 TO 1+423.000 LT	STA. 1+000.000 TO 1+033.787 STA. 1+080.845 TO 1+085.118 STA. 1+129.132 TO 1+129.551 STA. 1+423.000 TO 1+502.353

TENNESSEE METRIC D.O.T.

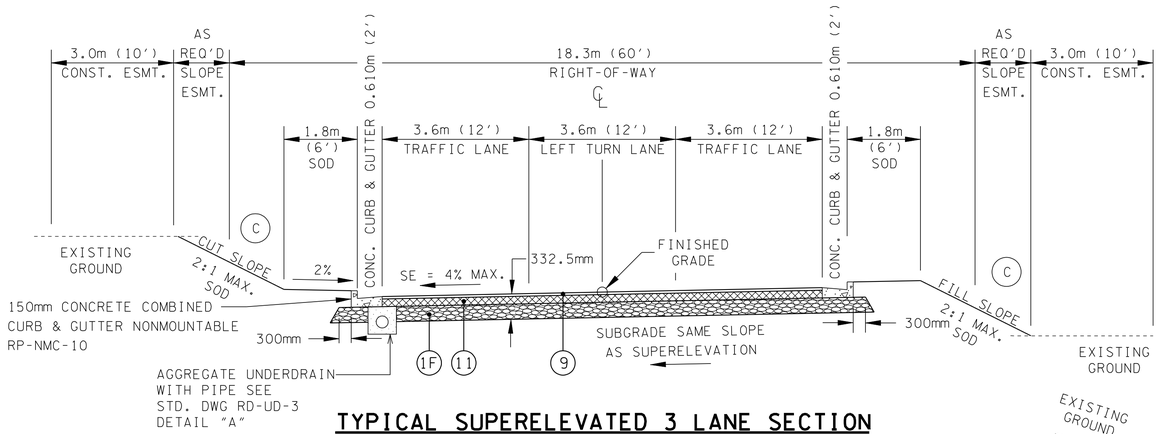
NOTE: ENGLISH UNITS ARE FOR REFERENCE ONLY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

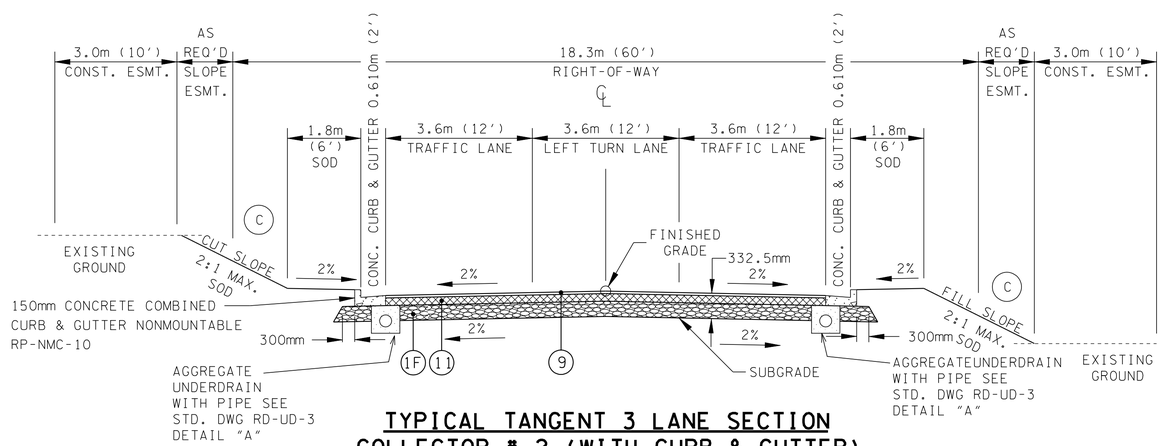
DESIGN DIVISION

FILE NO. ---



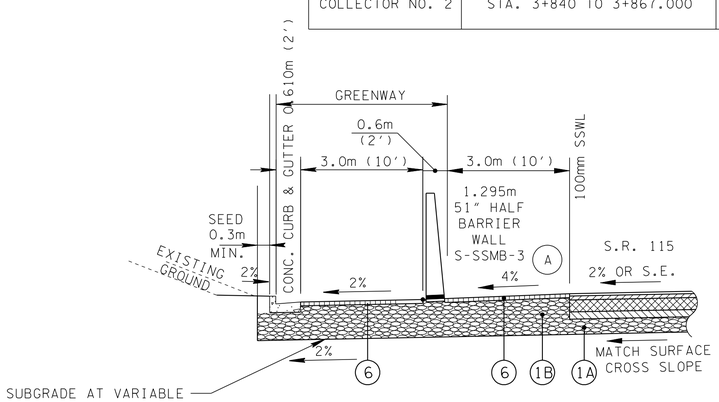
TYPICAL SUPERELEVATED 3 LANE SECTION COLLECTOR NO. 2 (WITH CURB & GUTTER)

ROAD	WITH CURB & GUTTER
COLLECTOR NO. 2	STA. 3+867.000 TO 3+894.628



TYPICAL TANGENT 3 LANE SECTION COLLECTOR # 2 (WITH CURB & GUTTER)

ROAD	WITH CURB & GUTTER	WITHOUT CURB & GUTTER
COLLECTOR NO. 2	STA. 3+840 TO 3+867.000	STA. 3+830 TO 3+840.000



GREENWAY ADJACENT TO S.R. 115

STA. 12+360.000 TO 12+550.000 LT

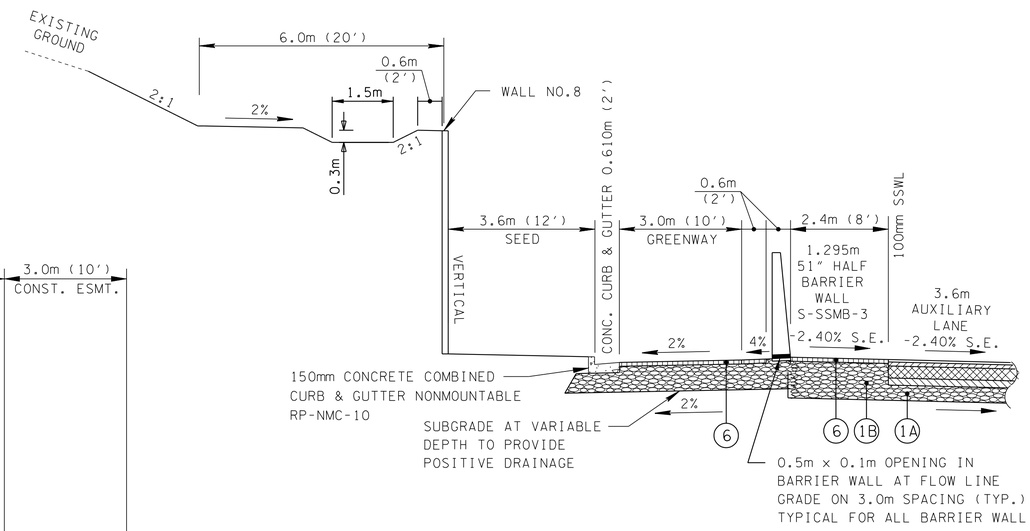
SEE SHEET 2L FOR PAVEMENT SCHEDULE

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.

(B) SHOULDER SLOPE ON LOW SIDE EQUAL TO S.E. WHEN S.E. IS GREATER THAN NORMAL SHOULDER SLOPE.

(C) SEE STD. DRAWING RD-S-11 FOR FILL AND CUT SLOPE TABLE (CASE 1) UNLESS NOTED OTHERWISE ON CROSS SECTIONS

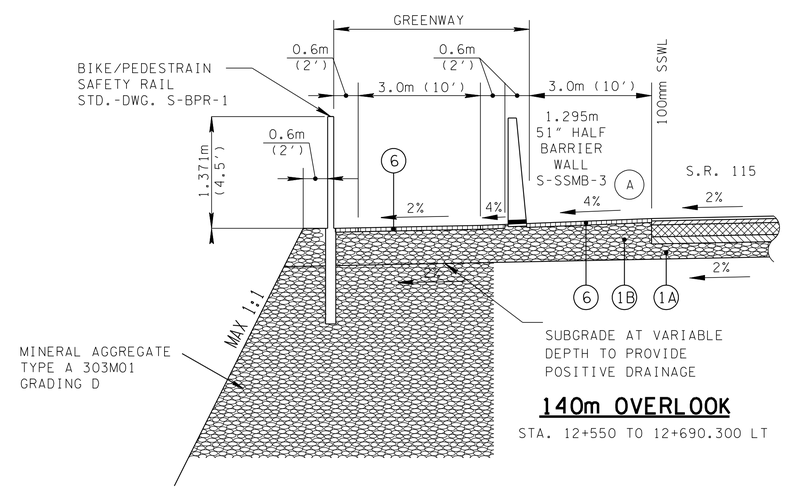
(D) SEE STD. DRAWING RD-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPE



GREENWAY ADJACENT TO S.R. 115

STA. 11+448.233 TO 11+532.906 LT

SEE SHEET 2H AND 2I



140m OVERLOOK

STA. 12+550 TO 12+690.300 LT

TYPE	YEAR	PROJECTS NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	2B
CONST.	2016	47026-3279-14	2G

REV. 04-13-2001: REVISED STATION TABLES
REV. 28-FEB-2003: REVISED STATION LOCATION FOR COLLECTOR NO.2 REMOVED TYPICAL 3 LANE SECTIONS WITHOUT CURB & GUTTER. ADDED DETAIL FOR GREENWAY.
REV. 22-AUG.-2014: REVISED STATION LIMITS OF TYPICAL SECTIONS.

TENNESSEE METRIC D.O.T.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	2C
CONST.	2016	47026-3249-14	2H

REV. 28-FEB-2003: ADDED TYPICALS FOR GREENWAY & MOVED DRIVEWAY DETAIL TO SHEET 2E. REVISED STA. LOCATION FOR MONTLAKE DR. & COLLECTOR NO.3. ADDED STA. LOCATION FOR COLLECTOR NO.5, NO.6 & MONTLAKE COURT.
REV. 22-AUG.-2014: REVISED STATION LIMITS OF TYPICAL SECTIONS.

SEE SHEET 2L FOR PAVING SCHEDULE

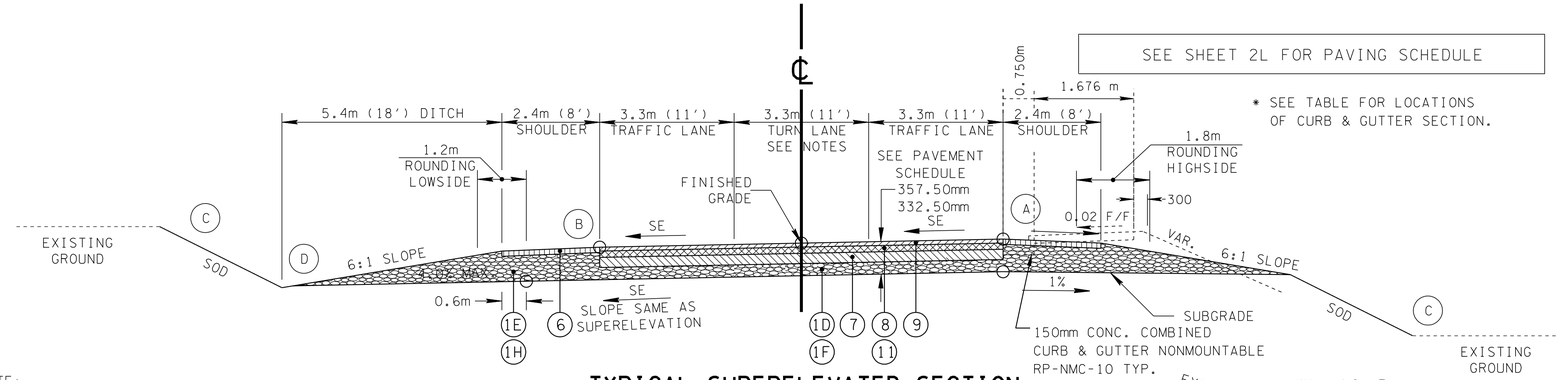
* SEE TABLE FOR LOCATIONS OF CURB & GUTTER SECTION.

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.

(B) SHOULDER SLOPE ON LOW SIDE EQUAL TO S.E. WHEN S.E. IS GREATER THAN NORMAL SHOULDER SLOPE.

(C) SEE STD. DRAWING RD-S-11 FOR FILL AND CUT SLOPE TABLE (CASE 1) UNLESS NOTED OTHERWISE ON CROSS SECTIONS

(D) SEE STD. DRAWING RD-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPE

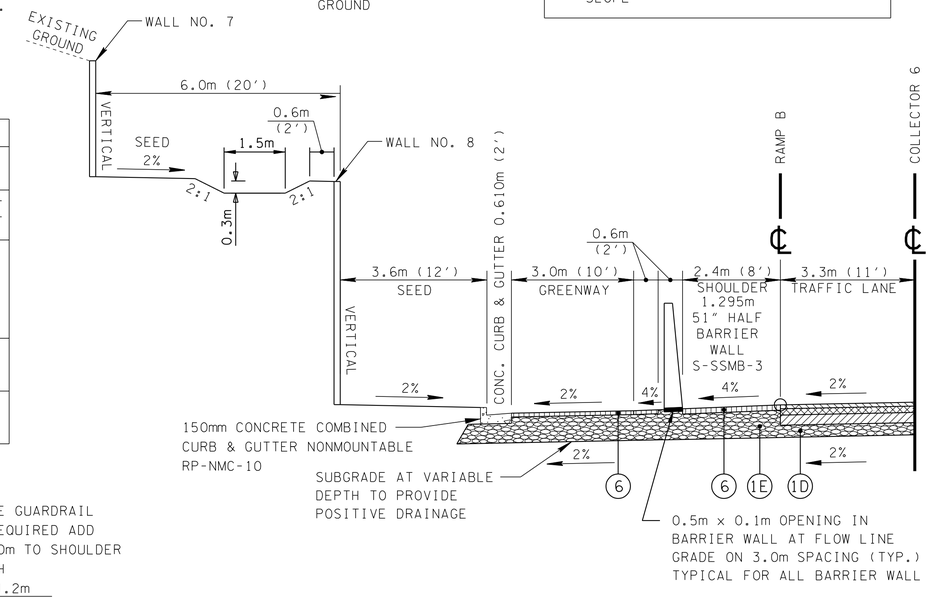


NOTE:
COLLECTOR 3 IS CURB & GUTTER ON RIGHT SIDE,
STA. 112+004.931 TO 112+203.
COLLECTOR 3 HAS 3 LANES,
STA. 112+004.931 TO 112+320.
COLLECTOR 5 HAS 3 (3.6m) LANES,
STA. 5+170 TO 5+399.092.

TYPICAL SUPERELEVATED SECTION
COLLECTOR NO. 3, NO. 5, NO. 6 & MONTLAKE DR.

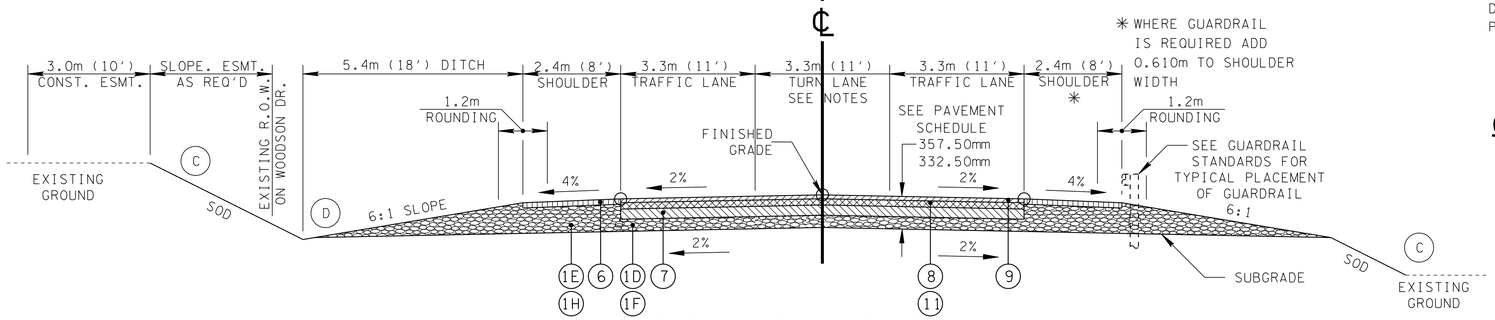
(BASED ON STD. DWG. RD-TS-2)
SEE SHEET 2J FOR CURB AND GUTTER SECTION COLLECTOR 5

ROAD/THICKNESS	WITHOUT CURB & GUTTER	WITH CURB & GUTTER LEFT/RIGHT
MONTLAKE DR. 357.5mm	STA. 8+043.000 TO 8+128.826	
COLLECTOR NO. 3 357.5mm	STA. 112+201.826 TO 112+383.474	STA. 112+086.330 TO 112+201.826 RT STA. 112+586.714 TO 112+679.987 LT
COLLECTOR NO. 5 332.5mm	(3 - 3.3m LANES) STA. 5+170.000 TO 5+181.854 STA. 5+186.593 TO 5+251.874	STA. 5+251.874 TO 5+300.206 RT STA. 5+371.406 TO 5+399.092 RT
COLLECTOR NO. 6 357.5mm		STA. 6+000.000 TO 6+034.000 LT
MONTLAKE CT. 332.5mm	STA. 9+503.300 TO 9+550.420	



GREENWAY ADJACENT TO COLLECTOR NO. 6

STA. 6+000.000 TO 6+275.000 COLLECTOR NO. 6
STA. 6+500.000 TO 6+520.000 RAMP B

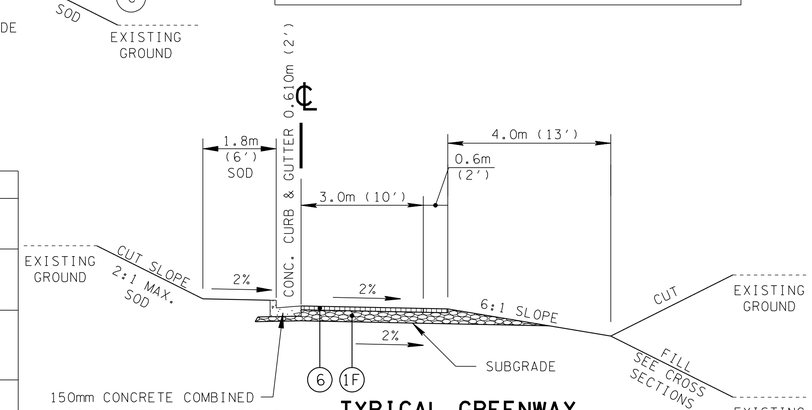


TYPICAL TANGENT SECTION
COLLECTOR NO. 3, NO. 5, NO. 6 & MONTLAKE DR.

(BASED ON STD. DWG. RD-TS-2)
SEE SHEET 2J FOR CURB AND GUTTER SECTION COLLECTOR 5

ROAD/THICKNESS	WITHOUT CURB & GUTTER	WITH CURB & GUTTER LEFT/RIGHT	WITH CURB & GUTTER
MONTLAKE DR. 357.5mm	STA. 8+014.000 TO 8+043.000 STA. 8+128.826 TO 8+46.141		
COLLECTOR NO. 3 357.5mm	STA. 112+015.070 TO 112+029.049 STA. 112+383.474 TO 112+570.000	STA. 112+029.049 TO 112+086.330 RT STA. 112+570.000 TO 112+586.714 LT	
COLLECTOR NO. 5 332.5mm	STA. 5+181.854 TO 5+186.593		
COLLECTOR NO. 6 357.5mm	STA. 6+275.000 TO 6+374.977	STA. 6+034.000 TO 6+275.000 LT	
MONTLAKE CT. 332.5mm	STA. 9+550.420 TO 9+620.000		

SEE SHEET 2L FOR PAVEMENT SCHEDULE



TYPICAL GREENWAY

STA. 6+840.00 TO STA. 7+020.000
SEE S.R. 115

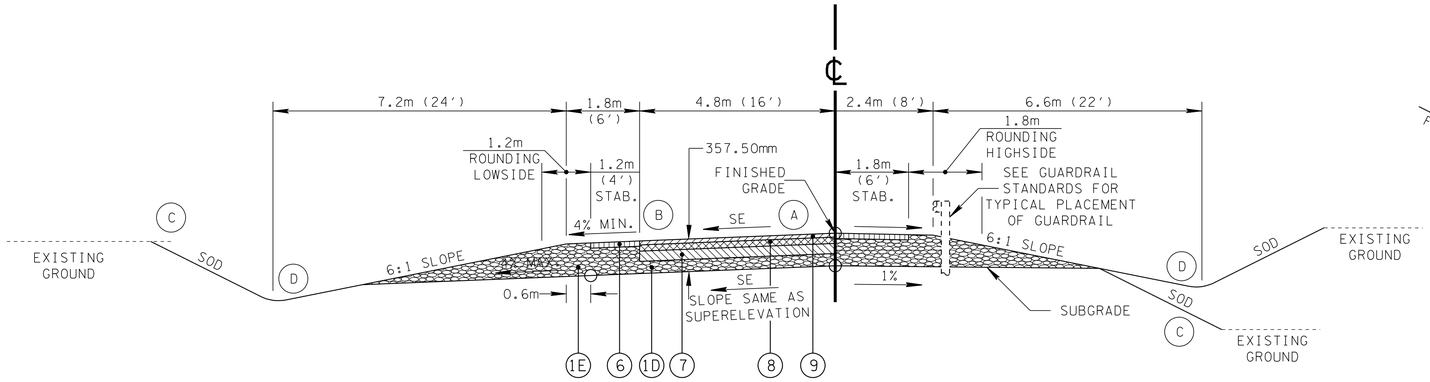
NOTE: ENGLISH UNITS ARE FOR REFERENCE ONLY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICALS SECTIONS

DESIGN DIVISION

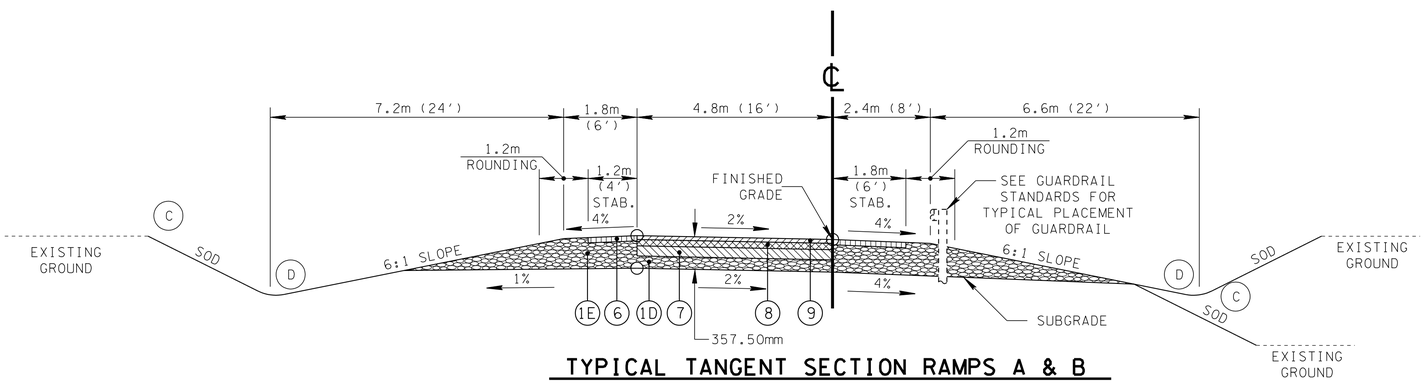
FILE NO. ---



TYPICAL SUPERELEVATED SECTION RAMPS A & B

(BASED ON STD. DWG. RD-TS-4)

RAMP B	RAMP A
STA. 6+500.000 TO STA. 6+598.317	STA. 122+360.000 TO STA. 122+440.000
STA. 6+643.907 TO STA. 6+721.853	STA. 122+600.637 TO STA. 122+612.547

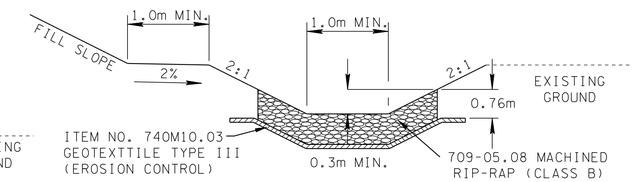


TYPICAL TANGENT SECTION RAMPS A & B

(BASED ON STD. DWG. RD-TS-4)

RAMP B	RAMP A
STA. 6+598.317 TO STA. 6+643.907	STA. 122+440.000 TO STA. 122+600.637

FOR DETAILS NOT SHOWN, SEE STD. DWG. RD01-S-11A.

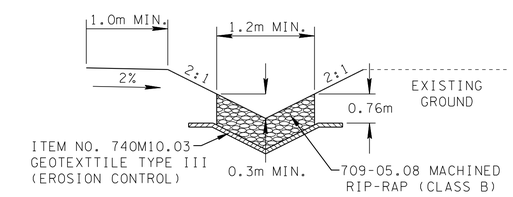


TYPICAL RIP RAP OR SOD "TRAPEZOIDAL" DITCH

SEE TABLE ON SHEETS 2N04-2N05 FOR DITCH LOCATION AND WIDTH

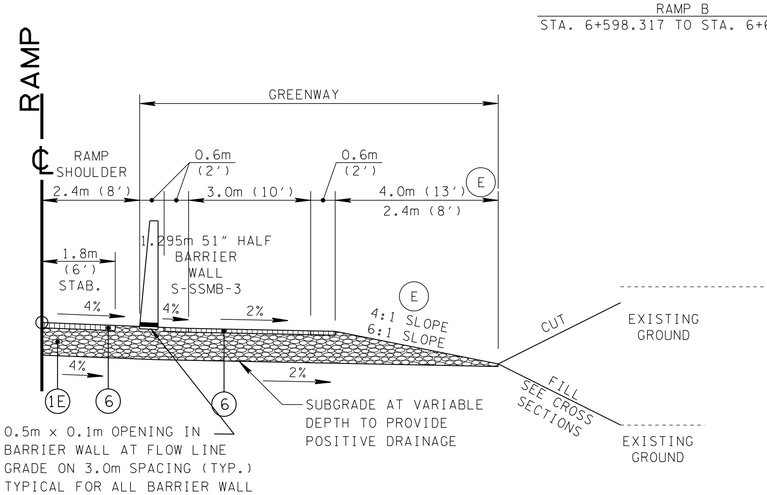
(SAME WIDTH DIMENSIONS FOR SEED AND SOD DITCHES)

FOR DETAILS NOT SHOWN, SEE STD. DWG. RD01-S-11A.



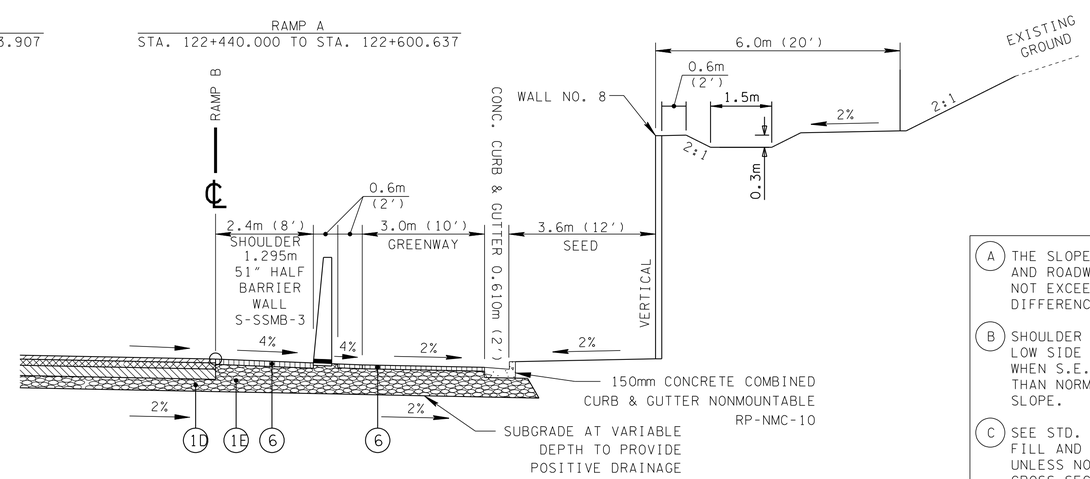
TYPICAL RIP RAP OR SOD "V" DITCH

SEE TABLE ON SHEETS 2N04-2N05 FOR DITCH LOCATION AND TYPE



GREENWAY ADJACENT TO RAMPS A

STA. 122+360.000 TO STA. 122+590.498 RAMP A
SEE COLLECTOR NO. 6



GREENWAY ADJACENT TO RAMP B

STA. 6+520.000 TO 6+721.853 RAMP B

SEE SHEET 2L FOR PAVEMENT SCHEDULE

(A) THE SLOPE OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7%.

(B) SHOULDER SLOPE ON LOW SIDE EQUAL TO S.E. WHEN S.E. IS GREATER THAN NORMAL SHOULDER SLOPE.

(C) SEE STD. DRAWING RD-S-11 FOR FILL AND CUT SLOPE TABLE (CASE 1) UNLESS NOTED OTHERWISE ON CROSS SECTIONS

(D) SEE STD. DRAWING RD-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPE

(E) 4:1 SLOPE AT 2.4m WIDTH - RAMP A
6:1 SLOPE AT 4.0m WIDTH - RAMP B

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	2D
CONST.	2016	47026-3279-14	2I

REV. 04-13-2001: OMITTED SECTION WITHIN WALLS AT BRIDGE
REV. 28-FEB-2003: ADDED GREENWAY DETAIL FOR RAMPS. REVISED STA. LOCATIONS FOR RAMPS. REVISED TITLES FOR TYPICALS.
REV. 22-AUG.-2014: REVISED STATION LIMITS OF TYPICAL SECTIONS.

NOTE: ENGLISH UNITS ARE FOR REFERENCE ONLY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

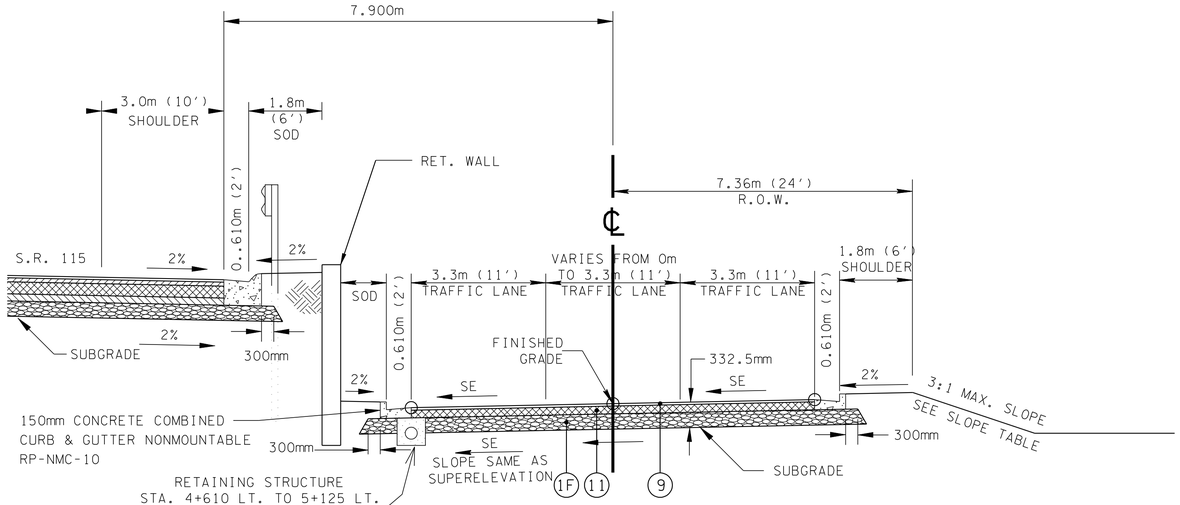
TYPICALS SECTIONS

DESIGN DIVISION

FILE NO. ---

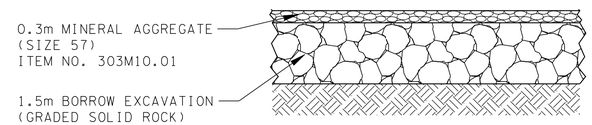
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	2E
CONST.	2016	47026-3279-14	2J

REV. 28-FEB-2003: REVISED STA. LOCATION FOR COLLECTOR NO.5 ADDED DRIVEWAY DETAIL. REMOVED NOTE BLOCKS.
REV. 22-AUG.-2014: REVISED STATION LIMITS OF TYPICAL SECTIONS.



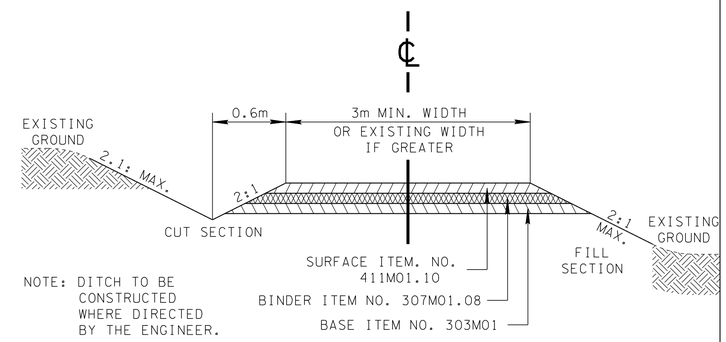
TYPICAL SUPERELEVATED SECTION
COLLECTOR NO. 5

STA. 4+444.600 TO 4+546.686
STA. 4+561.814 TO 4+644.898
STA. 4+676.457 TO 4+751.433
STA. 5+074.147 TO 5+170.000
SEE ALSO SHEET 2I



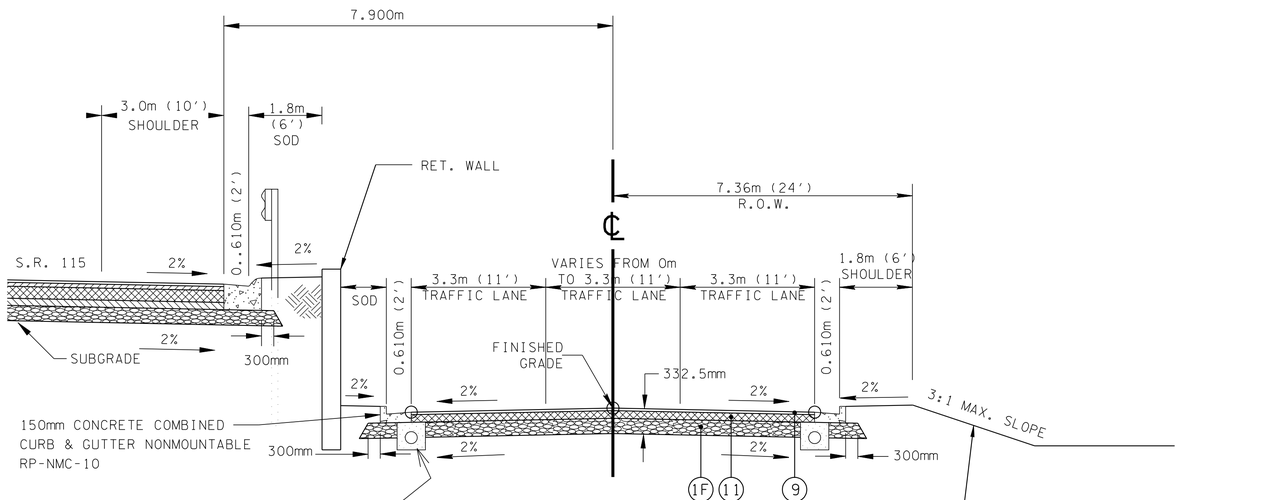
ROCK PAD DETAIL

STA. 11+960 TO 12+690
SEE PLAN LAYOUT



TYPICAL SECTION
PRIVATE DRIVE TO BUSINESS, FIELD OR RESIDENTIAL PROPERTY

BUSINESS	FIELD OR RESIDENTIAL	IF CONCRETE
SURFACE - 30 mm BINDER - 45 mm BASE - 100 mm	SURFACE - 40 mm BINDER - NONE BASE - 100 mm	150mm CONCRETE



TYPICAL TANGENT SECTION
COLLECTOR NO. 5

STA. 4+546.686 TO 4+561.814
STA. 4+644.898 TO 4+676.457
STA. 4+751.433 TO 5+074.147

SEE SHEET 2L FOR PAVEMENT SCHEDULE

NOTES:

1. DRIVEWAY DESIGN SHALL BE IN ACCORDANCE WITH THE STATE OF TENNESSEE RULES AND REGULATIONS FOR CONSTRUCTION OF DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY.
2. WHERE SURFACE OF EXISTING DRIVE IS CONCRETE, SUBSTITUTE 150 mm CONCRETE FOR BASE AND SURFACE.
3. FOR CURB AND GUTTER SECTIONS, THIS TYPICAL SECTION IS TO BEGIN AT THE BACK OF THE PROPOSED OR FUTURE SIDEWALK. SEE STANDARD DRAWING RP-D-14 FOR DESIGN OF DRIVES FROM CURB LINE TO BACK OF SIDEWALK.
4. IF AN EXISTING DRIVE IS GREATER THAN 3m, THE WIDTH OF THE PROPOSED DRIVE SHALL BE EQUAL TO THE EXISTING WIDTH; BUT NOT GREATER THAN THE MAXIMUM ALLOWABLE WIDTH AS SPECIFIED IN THE RULES AND REGULATIONS.
5. IF EXISTING DRIVE IS GRAVEL, SURFACING WILL BE FOR ONE SHOULDER WIDTH. THE REMAINDER OF THE DRIVE WILL BE REPLACED WITH GRAVEL TO THE TOUCHDOWN POINT.
6. WHEN REPLACING A DRIVE INTO A PARKING AREA, THE SIDE SLOPES SHALL BE 12:1.
7. SEE SHEET 3 FOR RIGHT-OF-WAY NOTES ON CONSTRUCTION DRIVEWAYS ON STATE HIGHWAY R.O.W.

TENNESSEE METRIC D.O.T.

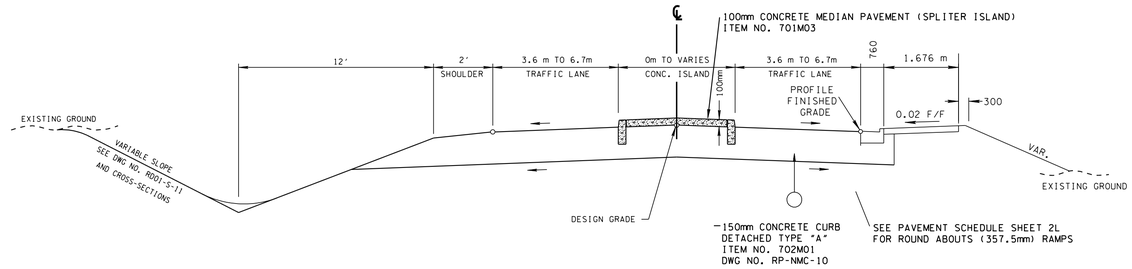
NOTE: ENGLISH UNITS ARE FOR REFERENCE ONLY.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

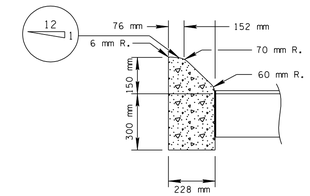
TYPICAL SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	2F
CONST.	2016	47026-3279-14	2K

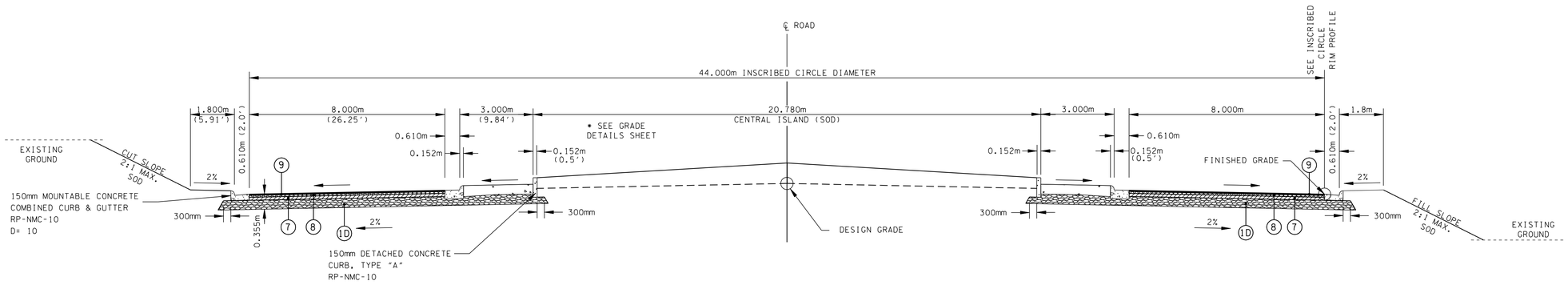
REV. 22-AUG-2014: ADDED NEW TYPICAL SECTION.



TYPICAL CONC. ISLAND SECTION



150 mm MOUNTABLE DETACHED CONCRETE CURB TYPE "A"



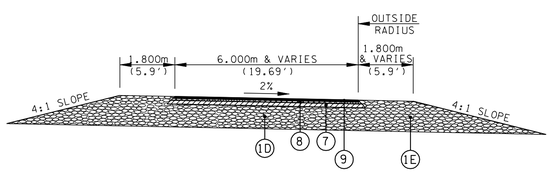
TYPICAL ROUNDABOUT SECTION

(BASED ON STD. RD01-TS-9)

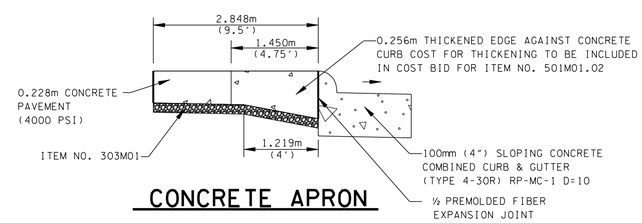
(MALONEY ROAD)
STA. 1+107.118 AT COLLECTOR NO 1
STA. 1+373.232 AT DRESSER ROAD

(COLLECTOR 3)
STA. 111+993.077 AT COLLECTOR NO 6

SEE SHEET 2L FOR PAVEMENT SCHEDULE



TYPICAL ROUNDABOUT SLIP LANE SECTION



CONCRETE APRON

NOTE: ENGLISH UNITS ARE FOR REFERENCE ONLY.

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	2FA
CONST.	2016	47026-3279-14	2L

PAVEMENT SCHEDULE - S.R. 115 527.75mm

(1A) AGGREGATE BASE MATERIAL (0.6025 Tonnes/m²) (250mm DEPTH)
Item 303M01 Mineral Aggregate, Type "A"
Base, Grading "D"

(2) A. C. MIXTURE GRADING "A-S" (BLACK BASE)
(0.1829 Tonnes/m²) (95.25mm DEPTH)
3.25% Item 307M02.02 Performance Grade Asphalt Cement (PG 70-22)
:(BPMB-HM) Grading "A-S"
96.75% Item 307M02.03 Aggregate (BPMB-HM) Grading "A-S"

(3) A.C. MIXTURE GRADING "A" (BLACK BASE)
(0.2440 Tonnes/m²) (100mm DEPTH)
Item 307M02.01 Performance Grade (PG 70-22):(BPMB-HM) Grading "A"

(4) A.C. MIXTURE GRADING "B-M2" (BINDER)
(0.1224 Tonnes/m²) (51mm DEPTH)
Item 307M02.08 Performance Grade (PG 70-22):(BPMB-HM) Grading "B-M2"

(5) A.C.S. MIXTURE GRADING "D" (SURFACE)
(0.0718 Tonnes/m²) (31.50mm DEPTH)
Item 411M02.10 Performance Grade Asphalt Cement (PG 70-22) Grading "D"

(T) TACK COAT (0.00009336 Tonnes/m²)
Item 403M01 Bituminous Material for Tack Coat (TC)

(P) PRIME COAT
Item 402M01 Bituminous Material for Prime Coat (PC) @ 1.47 L/m²
Item 402M02 Aggregate for Cover Material (PC) @ 5.4 Kg/m²

SHOULDER

(1B) AGGREGATE BASE MATERIAL
(1.1821 Tonnes/m²) (490.50mm DEPTH)
Item 303M01 Mineral Aggregate, Type "A"
Base, Grading "D"

(1C) AGGREGATE BASE MATERIAL
(1.272 Tonnes/m²) (527.75mm DEPTH)
Item 303M01 Mineral Aggregate, Type "A"
Base, Grading "D"

(6) A.C.S. MIXTURE GRADING "E" (STAB. SHOULDER)
(0.0825 Tonnes/m²) (37.50mm DEPTH)
Item 411M01.07 Asphaltic Concrete Surfaces (PG64-22) Grading "E" (Shoulders)

PAVEMENT SCHEDULE - RAMPS A & B, MONTLAKE DR., COLLECTORS 3,5 & 6 AND ROUNDABOUTS 357.5mm

(1D) AGGREGATE BASE MATERIAL (0.4820 Tonnes/m²) (200mm DEPTH)
Item 303M01 Mineral Aggregate, Type "A"
Base, Grading "D"

(7) A.C. MIXTURE GRADING "A" (BLACK BASE)
(0.1830 Tonnes/m²) (75mm DEPTH)
Item 307M01.01 Bituminous Plant Mix Base (Hot Mix)
(PG64-22) Grading "A"

(8) A.C. MIXTURE GRADING "B-M2" (BINDER)
(0.1224 Tonnes/m²) (51mm DEPTH)
Item 307M01.08 Bituminous Plant Mix Base (Hot Mix)
(PG64-22) Grading "B-M2"

(9) A.C.S. MIXTURE GRADING "D" (SURFACE)
(0.0718 Tonnes/m²) (31.50mm DEPTH)
Item 411M01.10 Performance Grade Asphalt Cement (PG64-22) Grading "D"

(T) TACK COAT (0.00009336 Tonnes/m²)
Item 403M01 Bituminous Material for Tack Coat (TC)

(P) PRIME COAT (0.001525 Tonnes/m²)
Item 402M01 Bituminous Material for Prime Coat (PC) @ 1.47 L/m²
Item 402M02 Aggregate for Cover Material (PC) @ 5.4 Kg/m²
Aggregate (0.0054 Tonnes/m²)

SHOULDERS

(1E) AGGREGATE BASE MATERIAL
(0.7723 Tonnes/m²) (320.50mm DEPTH)
Item 303M01 Mineral Aggregate, Type "A"
Base, Grading "D"

(6) A.C.S. MIXTURE GRADING "E" (STAB. SHOULDER)
(0.0825 Tonnes/m²) (37.50mm DEPTH)
Item 411M01.07 Asphaltic Concrete Surfaces (PG64-22) Grading "E" (Shoulders)

OVERLAY PAVEMENT SCHEDULE

(5) A.C.S. MIXTURE GRADING "D" (SURFACE)
(0.0718 Tonnes/m²) (31.50mm DEPTH)
Item 411M02.10 Performance Grade Asphalt Cement (PG 70-22) Grading "D"

(12) COLD PLANING EXISTING BASE AND PAVE
Item 415M01.01 Cold Planing Bituminous Pavement

(T) TACK COAT (0.00009336 Tonnes/m²)
Item 403M01 Bituminous Material for Tack Coat (TC)

PAVEMENT SCHEDULE - COLLECTOR 1 AND MALONEY ROAD 338.5mm

(1F) AGGREGATE BASE MATERIAL (0.6025 Tonnes/m²) (250mm DEPTH)
Item 303M01 Mineral Aggregate, Type "A"
Base, Grading "D"

(10) A.C. MIXTURE GRADING "B-M2" (BINDER)
(0.1368 Tonnes/m²) (57mm DEPTH)
Item 307M01.08 Bituminous Plant Mix Base (Hot Mix)
(PG64-22) Grading "B-M2"

(9) A.C.S. MIXTURE GRADING "D" (SURFACE)
(0.0718 Tonnes/m²) (31.50mm DEPTH)
Item 411M01.10 Performance Grade Asphalt Cement (PG64-22) Grading "D"

(T) TACK COAT (0.00009336 Tonnes/m²)
Item 403M01 Bituminous Material for Tack Coat (TC)

(P) PRIME COAT (0.001525 Tonnes/m²)
Item 402M01 Bituminous Material for Prime Coat (PC) @ 1.47 L/m²
Item 402M02 Aggregate for Cover Material (PC) @ 5.4 Kg/m²
Aggregate (0.0054 Tonnes/m²)

SHOULDERS

(1G) AGGREGATE BASE MATERIAL
(0.7265 Tonnes/m²) (301.50mm DEPTH)
Item 303M01 Mineral Aggregate, Type "A"
Base, Grading "D".

(6) A.C.S. MIXTURE GRADING "E" (STAB. SHOULDER)
(0.0825 Tonnes/m²) (37.50mm DEPTH)
Item 411M01.07 Asphaltic Concrete Surfaces (PG64-22) Grading "E" (Shoulders)

PAVEMENT SCHEDULE - OTHER INTERSECTING ROADS 332.5mm

(1F) AGGREGATE BASE MATERIAL (0.6025 Tonnes/m²) (250mm DEPTH)
Item 303M01 Mineral Aggregate, Type "A"
Base, Grading "D"

(11) A.C. MIXTURE GRADING "B-M2" (BINDER)
(0.1224 Tonnes/m²) (51mm DEPTH)
Item 307M01.08 Bituminous Plant Mix Base (Hot Mix)
(PG64-22) Grading "B-M2"

(9) A.C.S. MIXTURE GRADING "D" (SURFACE)
(0.0718 Tonnes/m²) (31.50mm DEPTH)
Item 411M01.10 Performance Grade Asphalt Cement (PG64-22) Grading "D"

(T) TACK COAT (0.00009336 Tonnes/m²)
Item 403M01 Bituminous Material for Tack Coat (TC)

(P) PRIME COAT (0.001525 Tonnes/m²)
Item 402M01 Bituminous Material for Prime Coat (PC) @ 1.47 L/m²
Item 402M02 Aggregate for Cover Material (PC) @ 5.4 Kg/m²
Aggregate (0.0054 Tonnes/m²)

SHOULDERS

(1H) AGGREGATE BASE MATERIAL
(0.7120 Tonnes/m²) (295.50mm DEPTH)
Item 303M01 Mineral Aggregate, Type "A"
Base, Grading "D"

(6) A.C.S. MIXTURE GRADING "E" (STAB. SHOULDER)
(0.0825 Tonnes/m²) (37.50mm DEPTH)
Item 411M01.07 Asphaltic Concrete Surfaces (PG64-22) Grading "E" (Shoulders)

NOTE: ENGLISH UNITS
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TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT SCHEDULE

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2M1

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE 0F THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

(3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203M04 AND/OR 203M07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801M01.

(2) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

(3) ITEM NO. 801M01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

(4) ITEM NO. 801M02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(2) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

(3) GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(2) EXCAVATION FOR PIPES, CATCH BASINS, STORM SEWERS, BRIDGES, BRIDGE DRAINS, AND ALL OTHER CULVERTS AND MINOR STRUCTURES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR METER OF PIPE.

(3) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(4) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203M01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(5) WHERE A CULVERT (PIPE OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.

(6) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

UTILITIES

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

(3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

FENCING

(1) LOCATION OF THE FENCE SHALL BE THREE HUNDRED MILLIMETERS INSIDE THE RIGHT-OF-WAY EXCEPT WHERE SHOWN ON THE PLANS.

(2) FENCES SHALL BE TURNED IN AT DRAINAGE STRUCTURES AND BRIDGES WHERE DIRECTED BY THE ENGINEER SO AS TO ABUT WINGWALLS AND/OR ABUTMENTS.

(3) THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS TWO WEEKS NOTICE PRIOR TO CUTTING FENCES.

(4) THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ACCESS CONTROL FENCES PRIOR TO CUTTING EXISTING STOCK FENCES IN AREAS UTILIZED BY DOMESTIC LIVESTOCK OR OTHER AREAS AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS

(1) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.

(2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.

(3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA

ROAD CLOSURE NOTES

(1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

RIGHT - OF – WAY

(1) SEE SHEET NO 3

PAVEMENT MARKINGS

(1) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS BEFORE DARK HOURS. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716M05.01, PAINTED PAVEMENT MARKING (100mm LINE), km.

(2) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716M05.20, PAINTED PAVEMENT MARKING (150 mm LINE), km.

(3) WIDE (200 mm) TEMPORARY PAVEMENT MARKING LINE WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716M05.02 PAINTED PAVEMENT MARKING (200 mm BARRIER LINE), km.

FINAL PAVEMENT MARKING IF 200 mm ENHANCED FLATLINE THERMOPLASTIC IS USED

(4) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 200 mm ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716M12.03, ENHANCED FLATLINE THERMOPLASTIC PAVEMENT MARKING (200 mm BARRIER LINE), l.f. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

FINAL PAVEMENT MARKING IF 100 mm SPRAY THERMOPLASTIC (60 mil) IS USED

(5) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 100 mm SPRAY THERMOPLASTIC PAVEMENT MARKING (60 mil) INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716M13.01, SPRAY THERMOPLASTIC PAVEMENT MARKING (60 mil) (100 mm LINE), km. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

SEALED BY

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2M2

GENERAL NOTES

PAVEMENT MARKINGS

FINAL PAVEMENT MARKING IF 150 mm SPRAY THERMOPLASTIC (60 mil) IS USED

(6) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 150 mm SPRAY THERMOPLASTIC PAVEMENT MARKING (60 mil) INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716M13.02, SPRAY THERMOPLASTIC PAVEMENT MARKING (60 mil) (150 mm LINE), km. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

(7) THE PAVEMENT MARKING ON THE LANE SHIFT FOR CENTERLINE, EDGE LINES AND LANE LINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716M13.02, SPRAY THERMOPLASTIC PAVEMENT MARKING (60 mil) (150 mm LINE), km.

(8) BEFORE OPENING THE LANE SHIFT TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712M01 TRAFFIC CONTROL, LUMP SUM.

PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

(2) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

(3) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

(4) WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(5) ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.

(6) PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL 300 mm OF WIDTH PER 25 mm DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.

(7) ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.

(8) ON URBAN TYPICAL SECTIONS, (CURB AND GUTTER), RESIDENTIAL DRIVEWAYS AND BUSINESS ENTRANCES SHALL HAVE A MINIMUM WIDTH OF MATERIAL NOT LESS THAN 300 mm USED IN THE TRANSITION TO FEATHER THE PAVEMENT EDGE.

(9) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

GRADED SOLID ROCK

(1) THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 1.0 m. AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 300 mm AND 1.0 m IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 50 mm IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.

RIP-RAP

(1) MACHINED RIPRAP SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED BY THIS NOTE. MACHINED RIPRAP SHALL BE CLEAN SHOT ROCK CONTAINING NO SAND, DUST, OR ORGANIC MATERIALS AND SHALL VARY IN SIZE FROM 200 mm TO 450 mm. THE STONE SIZES SHALL BE DISTRIBUTED UNIFORMLY THROUGHOUT THE SIZE RANGE WITH NO MORE THAN 20% OF THE MATERIAL (BY WEIGHT) LESS THAN 200 mm. THE THICKNESS OF THE STONE LAYER SHALL BE 450 mm (+/-75 mm) AND THE SIZE GRADATION SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE LAYER THICKNESS AND FROM TOP TO BOTTOM OF THE SLOPE.

UPON COMPLETION OF THE PROJECT, A VISUAL INSPECTION SHALL REVEAL THAT APPROXIMATELY 50% OF THE SURFACE AREA CONSISTS OF STONES 225 mm OR LARGER. PAYMENT SHALL BE MADE UNDER ITEM 709M05.10 MACHINED RIPRAP (CLASS "C"), m^3, AND QUANTITIES WILL BE BASED ON THE AVERAGE THICKNESS OF 450 mm.

(2) RIPRAP SHALL CONSIST OF FURNISHING AND PLACING EITHER RUBBLE STONES BY HAND OR MACHINED. RUBBLE STONE SHALL MEET THE REQUIREMENTS OF SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE CLEAN (FREE FROM ORGANIC MATTER), DURABLE, ANGULAR WITH FRACTURED FACES, NEARLY RECTANGULAR IN SHAPE WITH A BREADTH OR THICKNESS AT LEAST ONE-THIRD ITS LENGTH.

IF THE CONTRACTOR ELECTS TO USE MACHINED RIPRAP, IT SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED BY THIS NOTE. MACHINED RIPRAP SHALL BE CLEAN SHOT ROCK CONTAINING NO SAND, DUST, OR ORGANIC MATERIALS, AND SHALL VARY IN SIZE FROM 50 mm TO 375 mm. THE STONE SIZES SHALL BE DISTRIBUTED UNIFORMLY THROUGHOUT THE SIZE RANGE WITH NO MORE THAN 20% OF THE MATERIAL (BY WEIGHT) LESS THAN 100 mm. THE THICKNESS OF THE STONE LAYER SHALL BE 450 mm (+/-75 mm) AND THE SIZE GRADATION SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE LAYER THICKNESS AND FROM TOP TO BOTTOM OF THE SLOPE. UPON COMPLETION OF THE PROJECT, A VISUAL INSPECTION SHALL REVEAL THAT APPROXIMATELY 50% OF THE SURFACE AREA CONSISTS OF STONES 10 mm OR LARGER. PAYMENT WILL BE MADE UNDER ITEM 709M05.06 CLASS A-1 RIP-RAP AND QUANTITIES WILL BE BASED ON A THICKNESS OF 457 mm.

SIGNING

(1) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUTOUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND. THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL EXTRUDED PANEL SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE, AS OUTLINED IN THE STANDARD SPECIFICATIONS. ALL SHIELDS ON GUIDE SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE AS OUTLINED IN THE STANDARD SPECIFICATIONS.

(2) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.

(3) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

(4) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS (3 SETS) OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. THE LAYOUT DRAWINGS SHALL BE SENT TO THE DESIGN DIVISION, SIGNING AND MARKING SECTION, SUITE 1000, J. K. POLK BUILDING, NASHVILLE, TN 37243-0350.

(5) ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713M15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(6) THE EXISTING FOOTINGS ARE TO BE REMOVED 150 mm BELOW GROUND LINE.

(7) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

TRAFFIC CONTROL DIRECTIONAL SIGNING NOTES

(1) WHEN EXISTING "TOURIST ORIENTED DIRECTIONAL SIGNS" (TODS) ARE ON NON-ACCESS CONTROLLED CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS IN FULL VIEW TO THE MOTORING PUBLIC DURING ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING THESE "TODS" AND TEMPORARY SUPPORTS ARE TO BE PAID FOR UNDER ITEM NO. 712M01__, AS DIRECTED BY THE ENGINEER. NEW SUPPORTS AND SIGN FACE FOR FINAL LOCATION WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712M06, SIGNS (CONSTRUCTION) PER SQUARE METER.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN NINE (9) METERS OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 100 km/h. THIS DISTANCE SHALL INCREASE TO FOURTEEN (14) METERS FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 100 km/h OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

SEALED BY

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2M3

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

GENERAL NOTES

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN NINE (9) METERS OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 100 km/h. THIS DISTANCE SHALL BE INCREASED TO FOURTEEN (14) METERS FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 100 km/h OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN NINE (9) METERS OF A OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 100 km/h. THIS DISTANCE SHALL BE INCREASED TO FOURTEEN (14) METERS FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 100 km/h OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

LIGHTING

(1) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 1, 2015 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.

(2) ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 50 mm SCHEDULE 40 PVC RIGID CONDUIT.

(3) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THW INSULATION.

(4) EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF 150 mm BELOW GRADE.

(5) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.

(6) LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.

(7) STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

(8) ALL NEW ROADWAY LIGHT STANDARDS SHALL BE MOUNTED ON BASES WITH ACCESS DOOR. TRANSFORMER BASES SHALL MEET AASHTO SPECIFICATIONS AND HAVE FHWA APPROVAL. STANDARDS SHALL BE ALUMINUM WITH TRANSFORMER BASES.

(9) BRACKET ARMS SHALL BE ROUND TAPERED TRUSS TYPE WITH STRAP MOUNTING AND LENGTHS AS SCHEDULED.

(10) BRACKET ARM UPSWEEP SHALL BE THE SAME FOR ALL LIGHT STANDARDS OF THE SAME TYPE.

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

(1) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

(2) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.

(3) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

(4) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.

(5) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

(6) NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

SEDIMENT CONTROL

(7) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

(8) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

(9) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL- VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

(10) CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND CONTROL EROSION.

(11) FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND ROOADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

(12) IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EPSC MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE SWPPP. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

(13) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED, TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

(14) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

STREAM/WETLAND

(15) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS IN ACCORDANCE WITH TDOT STANDARDS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(16) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.

(17) INSTREAM EPSC DEVICES REQUIRE THE ENVIRONMENTAL DIVISION'S PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN TDEC, USACE, AND TVA PERMITS.

(18) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS, SHALL BE ONLY AS SHOWN ON THE PROJECT PLANS AND/OR AS SO SPECIFIED IN THE ARAP/401, SECTION 404 PERMIT(S) AND/OR TVA26(A), IF APPLICABLE. ANY ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.

(19) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING.

(20) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CROSSINGS MUST BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES MUST BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK MUST BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS MUST BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO THEIR PREEXISTING ELEVATION. ALL TEMPORARY CROSSINGS MUST BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

(21) HEAVY EQUIPMENT WORKING IN WETLANDS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT MUST BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED.

(22) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.

SEALED BY

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2M4

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

GENERAL NOTES

SPECIES

(1) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA. THE SWPPP SHALL BE MODIFIED TO INCLUDE EPSC MEASURES TO PREVENT NEGATIVE IMPACTS TO LEGALLY PROTECTED STATE OR FEDERAL FAUNA OR FLORA OR AS INDICATED IN THE ECOLOGICAL STUDIES OR ON THE PERMIT(S).

INSPECTION, MAINTENANCE, REPAIR

(2) EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.

(3) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES/STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

(4) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

(5) THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY LINEAR MILE AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EPSC INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS. RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

(6) INSPECTION OF EPSC MEASURES SHALL BE DONE AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE/QUALITY CONTROL SITE ASSESSMENT OF EPSC SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION'S COMPREHENSIVE INSPECTION OFFICE GUIDELINES.

(7) OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

(8) UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

(9) THE TDOT PROJECT SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

MATERIALS REPAIR

(10) WASTE AND BORROW AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

SWPPP, PERMITS, PLANS, RECORDS REPAIR

(11) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.

(12) ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER. THE ENVIRONMENTAL DIVISION, ROOADWAY DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(13) THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE: DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EPSC INSPECTION RECORDS, QUALITY ASSURANCE SITE ASSESSMENT RECORDS, PRECIPITATION RECORDS, SWPPP, PROJECT ENVIRONMENTAL PERMITS, AND A COPY OF THE PROJECT EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION.

(14) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BREIF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

(15) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS OR MODIFICATIONS OF THE SWPPP ARE NEEDED. THE ROOADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(16) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS. A COPY OF ANY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SWPPP.

(17) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER A CHANGE IN CHEMICAL TREATMENT METHODS IS MADE INCLUDING USE OF A DIFFERENT CHEMICAL, DIFFERENT DOSAGE OR APPLICATION RATE, OR A DIFFERENT AREA OF APPLICATION.

(18) IF A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION) THE SWPPP SHALL BE MODIFIED OR UPDATED.

(19) PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EPSC PLANS SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. A COPY OF CERTIFICATION RECORDS FOR THE COURSES SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

LITTER, DEBRIS, WASTE, PETROLEUM

(20) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.

(21) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2M5

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SPECIAL NOTES

GRADING

(1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.

(2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.

(3) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

(5) EARTHWORK IS PAID FOR UNDER ITEM 203M01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

DEMOLITION OF BUILDINGS

(1) IF THE ASBESTOS SURVEY AND ABATEMENT IS NOT PART OF THE CONTRACT, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE TDOT HAZARDOUS MATERIALS OFFICE TO VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED FOR ANY BUILDING TO BE REMOVED. IN THE CASE THAT NO SURVEY HAS BEEN COMPLETED THE CONTRACTOR SHALL COORDINATE WITH THE HAZARDOUS MATERIALS OFFICE IN SCHEDULING A SURVEY.

(2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT SHALL BE COMPLETED PRIOR TO ANY DEMOLITION ACTIVITIES FOR BUILDINGS INCLUDED IN THE PROJECT. ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.

(3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT OR DEMOLITION.

RETAINING WALLS

(1) THE (RIGHT-OF-WAY/EASEMENT) BETWEEN STATION 6+700 TO STATION 6+300 SHALL REMAIN CLEAR FOR THE CONSTRUCTION OF THE RETAINING WALL. NO UTILITY LINES MAY BE PLACED HERE WITHOUT APPROVAL FROM STRUCTURES DIVISION.

(2) THE OPTIONS FOR RETAINING WALL TYPES SHALL BE LIMITED TO THE APPROVED ALTERNATIVES AS SPECIFIED ON THE RETAINING WALL SHEETS.

(3) VALUE ENGINEERING CHANGE PROPOSALS WILL NOT BE ACCEPT FOR RETAINING WALLS. (ITEM NO'S 607M07.01, 607M07-02, 607M07-03, 607M07-04, 607M07-05, 607M07-06, 607M07-07, 607M07-08, 607M07-09 & 607M07-10).

(4) ALL COST OF BUILDING, INSTALLING AND BACKFILLING THE RETAINING WALL SHALL BE INCLUDED IN THE COST OF THE RETAINING WALL.

LIGHTING

(1) STANDARDS SHALL BE DESIGNED FOR 130 km/h WIND PRESSURE AND SHALL SUPPORT A 28 KILOGRAM LUMINAIRE ON A 6.1 m ARM.

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 46B, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPREHENSIVE INSPECTION OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

ECOLOGY

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING CONCERNING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR DESIGNATED CONSULTANT WILL NEED TO BE ON-SITE FOR WORK BEING DONE WHICH COULD AFFECT THE STREAM OR SPECIES.

STREAM RELOCATION

(1) ONCE WATER IS DIVERTED INTO A NEWLY CONSTRUCTED AND STABILIZED RELOCATED STREAM / CHANNEL THE ECOLOGY SECTION MUST BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE STREAM / CHANNEL IS TO BE SUPPLIED WITH THE NOTIFICATION.

SCOPE OF WORK

UNDER DIRECTION OF THE ENGINEER AND IN CONFORMANCE WITH THE SPECIAL CONDITIONS, SPECIFICATIONS AND PLANS, THE CONSTRUCTION OF THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

1) INSTALLATION OF ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES PRIOR TO BEGINNING WORK IN ANY PARTICULAR PHASE.

2) VERIFICATION OF THE EXACT LOCATIONS OF ALL UTILITIES.

3) REMOVAL OF EXISTING STRUCTURES, EXISTING PAVEMENT SECTION AND ALL OTHER OBSTACLES, REQUIRED BY THE ENGINEER TO COMPLETE THE WORK.

4) COORDINATION WITH THE UTILITY COMPANIES TO PERFORM THE RELOCATION OF ALL TELEPHONE AND ELECTRICAL WORK. CONTRACTOR SHALL INFORM AT&T AND KUB AT LEAST ONE WEEK PRIOR TO THE NEEDED ADJUSTMENT OF THEIR RESPECTIVE MANHOLES OR SERVICE CONNECTIONS.

5) MAINTAINING PHYSICAL ACCESS TO ALL BUSINESSES AND RESIDENCES DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ADJACENT PROPERTY OWNERS AGAINST WATER DAMAGE AND TO COMPENSATE FOR ANY AND ALL DAMAGE THAT OCCURS.

6) REPAIRING ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING UTILITIES OR PRIVATE PROPERTY AND/OR PROVIDING COMPENSATION AT HIS OWN EXPENSE.

7) THIS PROJECT INCLUDES: GRADING, BRIDGES, BOX CULVERTS, UTILITIES, PAVING, BASE AND PAVEMENT WITH UNDERDRAINS AND PAVEMENT MARKING, GREENWAY, WALL (ANCHORED WALLS AND OTHER), GRAVITY, AND CANTILEVER, SIDE ROAD AND RAMP, DRIVEWAYS AND FIELD ENTRANCES, FENCING AND GUARDRAIL, DRAINAGE AND REMOVAL OR ABANDONMENT OF EXISTING STORM AND OTHER DRAINAGE, GRADED SOLID ROCK FILL, DITCHES AND SEEDING, 3 ROUNDABOUTS, REMOVAL OF STRUCTURES AND OBSTRUCTIONS, EXCAVATION, AND FILLS (BORROW), TOPSOIL, APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL DEVICES, CONCRETE WORK (BARRIER WALL, ETC.) BIKE GREENWAY, SIGNING (ON AND OFF PROJECT), LIGHTING, SIDEWALKS, ISLANDS, RIGHT-OF-WAY MARKERS, TRAFFIC CONTROL DEVICES AND TRAFFIC SAFETY DEVICES, SEEDING, TOP SOILING, SODDING, STREAM RELOCATION WITH TREES, AND MOWING. THIS AND ALL OTHERS WORK AS DIRECTED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) SUPERVISOR OR INDICATED ON THE PLANS, AND TO THE LINES AND GRADES AS INDICATED ON THE TYPICAL CROSS-SECTIONS, PLAN, AND PROFILE SHEETS.

8) INSTALLATION OF LIGHTING AND PAVEMENT MARKINGS.

9) CONTRACTOR SHALL BE RESPONSIBLE FOR RECONFIGURATION OF EXISTING TRAFFIC SIGNS FOR THE VARIOUS TRAFFIC CONTROL PHASES.

*SEE TRAFFIC CONTROL NOTES, SHEET NO. 88A FOR CONSTRUCTION PHASING NOTES.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES
AND
SCOPE OF WORK

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N01

ESTIMATED GRADING QUANTITIES

LOCATION	STATION TO STATION	203M01 ROAD & DRAINAGE EXC. (UNCL.) m^3	BORROW EXCAVATION 203M03.02 UNCL. - m^3	BORROW EXCAVATION 203M08 S. ROCK - m^3	CHANNEL EXC. m^3	EXCESS EXC. WASTE m^3	EMB. m^3
S.R. 115	10+000.000 TO 12+690.388	199,362	201683				175563
MALONEY ROAD	1+000.000 TO 1+502.353	2201					51625
DRESSER ROAD	2+000.000 TO 2+368.000	1446					10188
COLLECTOR NO. 1	1+510.906 TO 1+764.829	3521					1748
SOUTH CIRCLE	3+000.000 TO 3+150.000	3163					12
GINN ROAD LT	2+500.000 TO 2+680.000	3864					0
GINN ROAD RT	2+800.000 TO 2+919.000	2031					199
COLLECTOR NO. 5	4+420.000 TO 5+399.092	4705					23990
COLLECTOR NO. 2	3+830.000 TO 3+917.725	603					9
RAMP B	6+500.000 TO 6+721.853	23687					168
MT. VERNON ROAD	9+000.000 TO 9+090.000	353					1393
BUNKER HILL ROAD	9+300.000 TO 9+347.000	182					0
COLLECTOR NO. 6	6+000.000 TO 6+396.977	48984					19765
COLLECTOR NO. 3	111+993.077 TO 112+679.987	28211					71243
BARBER HILL ROAD	7+500.000 TO 7+580.000	828					13
RAMP A	122+360.000 TO 122+612.547	94					20174
MONTLAKE DRIVE	8+014.000 TO 8+168.133	250					53420
MONTLAKE COURT	9+500.000 TO 9+620.000	188					5820
GREENWAY	6+896.534 TO 7+020.010	4911					28
EROSION CONTROL		428					
TOTALS		**329012**	**201683**	**0**	**0**	**0**	**435358**

GRADED SOLID ROCK

ROAD	STATION FROM	STATION TO	LOCATION LT	LOCATION RT	203M02.02 GRADED SOLID ROCK (M3)	303M10.01 MINERAL AGGREGATE NO. 57 TONNE	740M10.04 GEOTEXTILE TYPE IV STABILIZATION
S.R. 115	11+952	12+230	X		11307	7622.6	
S.R. 115	12+510	12+650		X	409	489.8	
COLLECTOR NO. 6	6+314	6+396.977	X		2511	970.0	
COLLECTOR NO. 3	112+267	112+668	X	X	8543	7155.0	
RAMP A	122+545	122+612.547		X	1703	1084.4	
MONTLAKE DRIVE	8+100	8+168.133	X	X	7192	3654.0	
TOTALS:					**31665**	**20975.8**	**0**

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N02

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

CROSS DRAIN TABULATION

	STATION	RCP CLASS III OR CMP 3.43 mm 10 GA. OR HDPE, PP, OR PVC OR SRTRP (m) FILL HEIGHT < OR = 4.9 m								RCP CLASS IV OR PVC (m) FILL HEIGHT > 4.9 m AND < OR = 7.3 m					RCP CLASS V FILL HEIGHT > 7.3 m AND < OR = 11.6 m					SKEW	RIP-RAP 709M05.06 (tonne)	END TREATMENT															REMARKS
		450 mm	600 mm	750 mm	900 mm	1050 mm	1200 mm	1500 mm	1800 mm	450 mm	600 mm	900 mm	1200 mm	1800 mm	450 mm	600 mm	900 mm	1200 mm	1800 mm			INLET			OUTLET			CLASS A CONC. 611M07.01 (m^3)		REINF. STEEL 611M07.02 (kg)		STRUC. STEEL 611M07.03 (kg)		600mm ENDWALL 611M07.57 (3:1)	600mm ENDWALL 611M07.58 (4:1)	
																						CODE	TYPE	DRAWING NO.	CODE	TYPE	DRAWING NO.	IN	OUT	IN	OUT	IN	OUT	EACH	EACH	
1	1+040																			90°		156	42CB	D-CB-42S	157	STR	D-PE-4		1.42		31					MALONEY ROAD
	1+085		52.9																	66° LT		158	B (4:1)	D-PE-9	159	B (2:1)	D-PE-9	1.59	2.07	114	103					MALONEY ROAD
1	1+191																			68° LT		165	44CB	D-CB-44SD	164	A	D-PE-1		11.42		72					MALONEY ROAD
	1+600		15.9																	90°		160	24 EW	D-PE-24A D-PE-24B	161	24 EW	D-PE-24A D-PE-24B								1	COLLECTOR NO.1
	1+684		18.8																	90°		162	24 EW	D-PE-24A D-PE-24B	163	24 EW	D-PE-24A D-PE-24B								1	COLLECTOR NO.1
1	1+703																			90°			EX.MH.	TIE TO	165	44CB	D-CB-44SD									COLLECTOR NO.1
1	1+725																			72° RT		39	42CB	D-CB-42	36	25	D-CB-25									COLLECTOR NO.1
1	2+146																			90°		45	24 EW	D-PE-24A D-PE-24B	44	24 EW	D-PE-24A D-PE-24B							1		DRESSER ROAD
	2+222		60.6																	80° LT		42	B (4:1)	D-PE-9	43	B (2:1)	D-PE-9	2.68	1.61	160	110					DRESSER ROAD
1	2+315																			90°		9	42CB	D-CB-42S	8	JBS-2	D-JBS-2									DRESSER ROAD
1	2+892																			90°		66	42CB	D-CB-42S	67	3B	D-PE-3B(1) D-PE-3B(2)		1.16		78					GINN ROAD RT.
1	4+460																			90°		107	B (4:1)	D-PE-9	104	B (4:1)	D-PE-9	2.68	2.68	160	160					COLLECTOR NO.5
1	4+520																			90°		108	24 EW	D-PE-24A D-PE-24B	108	24 EW	D-PE-24A D-PE-24B								1	COLLECTOR NO.5
1	5+227																			90°		146	42CB	D-CB-42	144	STR	D-PE-4		1.42		31					COLLECTOR NO.5
1	6+347																			87° LT		188	A	D-PE-1	190	44CB	D-CB-44	5.88		90						COLLECTOR NO.6
1	6+659.649																			79° RT		179	14CB	D-CB-14	171	42CB	D-CB-42									RAMP B
1	11+713																			LT		154	42CB	D-CB-42RB	150	42CB	D-CB-42RB									SR115
1	11+660																			90°		140	25CB	D-CB-25	141	STR	D-PE-4		1.42		31					SR115
1	7+512																			80° LT		181	B (2:1)	D-PE-9	182	B (4:1)	D-PE-9	2.61	4.57	157	247					BARBER HILL ROAD
1	7+580																			90°		211	42CB	DM-CB-42S	212	42CB	D-CB-42S									BARBER HILL ROAD
	9+309.604		21.3																	84° LT		153	B (4:1)	D-PE-9	152	B (4:1)	D-PE-9	3.17	3.17	186	186					BUNKER HILL ROAD
1	10+351																			90°		20	43CB	D-CB-43SB	21	25CB	D-CB-25									SR115
1	10+380.647																			68° LT		12W	41CB	D-CB-41RB	12	25CB	D-CB-25SD									SR115
1	10+380.647																			68° LT		12	25CB	D-CB-25SD	158	3B	D-PE-3B(1) D-PE-3B(2)		1.64		105					SR115
1	10+450																			90°		24	A	D-PE-1	35	25CB	D-CB-25SE	6.93		57						SR115
1	10+510																			90°		26W	41CB	D-CB-41RB	26	25CB	D-CB-25P									SR115
1	10+510																			90°		28	42CB	D-CB-42RB	26	25CB	D-CB-25P									SR115
1	10+580																			90°		41W	41CB	D-CB-41RB	41	25CB	D-CB-25RB									SR115
1	10+580																			90°		31	42CB	D-CB-42RB	30	25CB	D-CB-25RB									SR115
1	10+580																			90°		30W	41CB	D-CB-41RB	30	25CB	D-CB-25RB									SR115
1	10+642.520																			90°		64	42CB	D-CB-42RB	54	25CB	D-CB-25P									SR115
1	10+642.520																			90°		54W	41CB	D-CB-41RB	54	25CB	D-CB-25P									SR115
	SUB TOTAL 1																											**25.54**	**32.58**	**924**	**1154**	**0**	**0**				
	TOTAL 1	**0.0**	**169.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**									**58.12**		**2078**		**0**		**1**	**3**	

1. SEE STORM DRAINAGE PIPES TABULATED BLOCKS FOR PIPE LENGTHS.

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N03

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

CROSS DRAIN TABULATION

	STATION	RCP CLASS III OR CMP 3.43 mm 10 GA. OR HDPE, PP, OR PVC OR SRTRP (m) FILL HEIGHT < OR = 4.9 m								RCP CLASS IV OR PVC (m) FILL HEIGHT > 4.9 m AND < OR = 7.3 m					RCP CLASS V FILL HEIGHT > 7.3 m AND < OR = 11.6 m					SKEW	RIP-RAP 709M05.06 (tonne)	END TREATMENT														REMARKS
		450 mm	600 mm	750 mm	900 mm	1050 mm	1200 mm	1500 mm	1800 mm	450 mm	600 mm	900 mm	1200 mm	1800 mm	450 mm	600 mm	900 mm	1200 mm	1800 mm			INLET			OUTLET			CLASS A CONC. 611M07.01 (m^3)		REINF. STEEL 611M07.02 (kg)		STRUC. STEEL 611M07.03 (kg)		600mm ENDWALL 611M07.57 (3:1)	600mm ENDWALL 611M07.58 (4:1)	
																						CODE	TYPE	DRAWING NO.	CODE	TYPE	DRAWING NO.	IN	OUT	IN	OUT	IN	OUT	EACH	EACH	
1	10+737																			90°		55	42CB	D-CB-42RB	56	25CB	D-CB-25P									SR115
1	10+737																			90°		56W	41CB	D-CB-41RB	56	25CB	D-CB-25P									SR115
1	10+860																			90°		59W	41CB	D-CB-41RB	59	25CB	D-CB-25RB									SR115
1	10+860																			90°		59	25CB	D-CB-25RB	68	3B	D-PE-3B(1) D-PE-3B(2)		3.23		200		76			SR115
1	10+890																			90°		53W	41CB	D-CB-41RB	53	25CB	D-CB-25RB									SR115
	2+291		25.6																	79° RT		10	3B	D-PE-3B(1) D-PE-3B(2)	110	STR	D-PE-4	1.16	1.42	78	31					DRESSER ROAD
	1+107																		36.3	68° LT		225	A	D-PE-1	226	A	D-PE-1	11.42	11.42	79	79					MALONEY ROAD / DWY 1+107
1	12+360																			90°		135	41CB	D-CB-41S	197	25CB	D-CB-25P									SR115
1	12+360																			90°		197	25CB	D-CB-25P	136	B (2:1)	D-PE-9		1.76		118					SR115
1	12+420																			90°		200	25CB	D-CB-25P	199	B (2:1)	D-PE-9		0.82		70					SR115
1	12+520																			90°		202	26CB	D-CB-26	186	MH-3	D-MH-7									SR115
1	12+595																			90°		242	45CB	D-CB-45	205	26CB	D-CB-26									SR115
1	12+595																			90°		205	26CB	D-CB-26	187	MH-3	D-MH-7									SR115
1	122+493																			56° LT		195	42CB	D-CB-42S	178	MH-3	D-MH-7									RAMP A
1	122+564																			90°		192	A	D-PE-1	216	44CB	D-CB-44S	2.95		35						RAMP A
1	6+570																			90°		233	12CB	D-CB-12P	232	6B	D-PE-6B(1) D-PE-6B(2)		1.12		88					RAMP B
1	6+290																			90°		235	12CB	D-CB-12P	234	3B	D-PE-3B(1) D-PE-3B(2)		0.80		60					COLLECTOR NO.6
1	10+361																			28° LT		236	3B	D-PE-3B(1) D-PE-3B(2)	21	25CB	D-CB-25RB	1.16		78						SR115
1	112+666																			90°		239	12CB	D-CB-12	237	B (2:1)	D-PE-9		1.82		122					COLLECTOR NO.3
1	112+670																			42° LT		240	42CB	D-CB-42S	238	JBS	D-JBS-1									COLLECTOR NO.3
1	4+580																			90°		114	12CB	D-CB-12	113	4B	D-PE-4B(1) D-PE-4B(2)		1.33		98					COLLECTOR NO.5
2	5+229.5																			90°		231	SB	D-SDS-1	230	STR	D-PE-4		0.89		19					COLLECTOR NO.5
2	5+259																			90°		224	SB	D-SDS-1	229	SB	D-SDS-1									COLLECTOR NO.5
2	5+260																			90°		229	SB	D-SDS-1	228	JBS	D-JBS-3									COLLECTOR NO.5
2	6+357																			90°		193	SB	D-SDS-1	194	JBS	D-JBS-1									COLLECTOR NO.6
2	6+376																			90°		191	SB	D-SDS-1	194	JBS	D-JBS-1									COLLECTOR NO.6
1	10+881.4																			45° LT		227	A	D-PE-1	221	TIE		9.17		72						SR115
2	1+201																			68° LT		217	SB	D-SDS-1	218	B (2:1)	D-PE-9		0.83		74					MALONEY ROAD
1	6+358.285																			100°49' LT		208	41CB	D-CB-41S	207	B (2:1)	D-PE-9		0.82		70					COLLECTOR NO.6
1	6+826.776																			65° LT		172	44CB	D-CB-44	184	42CB	D-CB-42S									GREENWAY
1	2+100																			90°		244	12CB	D-CB-12P	245	3B	D-PE-3B(1) D-PE-3B(2)		0.80		60					DRESSER ROAD
1	5+382.688																			90°		263	12CB	D-CB-12P	262	B (2:1)	D-PE-9		0.82		70					COLLECTOR NO.5
	SUB TOTAL 2																											**25.86**	**27.88**	**342**	**1159**	**0**	**76**			
	TOTAL 2	**0.0**	**25.6**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**36.3**									**53.74**		**1501**		**76**		**0**	**0**	
	TOTAL 1	**0.0**	**169.5**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**		**0**							**58.12**		**2078**		**0**		**1**	**3**	
	TOTALS	**0.0**	**195.1**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**36.3**									**111.86**		**3579**		**76**		**1**	**3**	

1. SEE STORM DRAINAGE PIPES TABULATED BLOCKS FOR PIPE LENGTHS.
2. SEE SPRING DRAIN TABULATED BLOCK FOR PIPE LENGTHS.

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N04

DITCHES

SHEET NO.	ROAD	STATION FROM	STATION TO	SIDE LT	SIDE RT	LENGTH M	SLOPE FORE (H/V)	SLOPE BOTTOM WIDTH (m)	SLOPE BACK (H/V)	SEEDED "V" DITCH M2	SODDED TRAPEZOIDAL DITCH M2	SODDED "V" DITCH M2	709M05.08 MACHINED RIP-RAP (CLASS B) TRAPEZOIDAL TONNE	709M05.08 MACHINED RIP-RAP (CLASS B) V DITCH TONNE	CEMENT CONC. DITCH M2	SOD FOR RIP-RAP & PAVED DITCH M2	740M10.03 GEOTEXTILE (TYPE III) (EROSION CONTROL) M2	TYPE
4B	SR-115	10+000	10+136.5	X		136.8	6:1	0	2:1			341.5						ROAD SIDE
4B	SR-115	10+152	10+300	X		145.9	6:1	0	2:1			364.2						ROAD SIDE
4B	SR-115	10+000	10+290		X	293.7	3:1	0	3:1			557.4						SPECIAL
4B-5A	SR-115	10+290	10+310		X	20.5	4:1	0	3:1			44.8						SPECIAL
5A	SR-115	10+310	10+351		X	42.2	6:1	0	3:1			117.1						SPECIAL
5A	MALONEY	1+301.1	1+340	X		42.6	3:1	0	3:1					81.5		51.9	107	SPECIAL
5A	MALONEY	1+315.5	1+344.3		X	31.3	3:1	0	3:1					59.9		38.2	79	SPECIAL
5A	MALONEY	1+394	1+410.8		X	16.0	3:1	0	3:1			30.4						SPECIAL
5A	MALONEY	1+395.3	1+433.7	X		40.2	3:1	0	3:1			76.3						SPECIAL
5A	SR-115	10+409.8	10+450		X	42.4	3:1	1	3:1		122.9							SPECIAL
5A	DRESSER RD/SR-115	2+120	10+450	X		90.4	3:1	0	3:1			171.6						SPECIAL
5A	DRESSER RD	2+080	10+510		X	64.4	3:1	0	3:1			122.2						SPECIAL
5A	DRESSER RD	2+146	10+510	X		43.3	3:1	0	3:1			82.2						SPECIAL
5A	SR-115	10+511.5	10+529.5		X	18.6	3:1	0	3:1			35.3						SPECIAL
5A	SR-115	10+552.5	10+576.2		X	27.5	3:1	0	3:1			52.2						SPECIAL
5A	SR-115	10+580.6	10+600		X	20.0	3:1	0	3:1						37.9	24.4		SPECIAL
6A	SOUTH CIRCLE/SR-115	3+044.1	10+600		X	30.4	4:1	0	2:1						58.0	37.1		SPECIAL
6A	SOUTH CIRCLE	3+044.1	3+054.7		X	12.6	4:1	0	2:1						24.0	15.4		ROAD SIDE
6A	SOUTH CIRCLE	3+063.4	3+114.7		X	45.9	4:1	0	2:1						87.6	56.0		ROAD SIDE
6A	SOUTH CIRCLE	3+123.3	3+140.7		X	14.4	4:1	0	3:1						31.5	17.6		ROAD SIDE
6A	SOUTH CIRCLE/SR-115	10+642.5	3+047.3	X		22.0	4:1	0	4:1						54.4	26.8		SPECIAL
6A	SOUTH CIRCLE	3+047.3	3+054.2	X		5.8	4:1	0	4:1						14.3	7.1		ROAD SIDE
6A	SOUTH CIRCLE	3+074.2	3+123.9	X		57.9	4:1	0	4:1						143.2	70.6		ROAD SIDE
6A	SOUTH CIRCLE	3+131.6	3+138.0	X		7.7	4:1	0	4:1						19.0	9.4		ROAD SIDE
6A	SR-115	10+642.52	10+737.0		X	94.5	3:1	0	3:1			179.4						SPECIAL
6A	SR-115	10+737.0	10+743.9		X	7.0	3:1	0	3:1			13.3						SPECIAL
6A	SR-115	10+780	10+810		X	30.0	3:1	0	3:1			56.9						SPECIAL
6A	SR-115	10+810	10+842.4		X	32.4	3:1	0	4:1			70.8						SPECIAL
6A	SR-115	10+842.4	10+868.0		X	31.6	3:1	0	3:1					60.5		38.5	79	SPECIAL
6A-7A	SR-115	10+868.0	10+903.3		X	35.4	2:1	0	2:1					67.7		43.2	89	SPECIAL
7A	SR-115	10+934.3	11+020		X	87.6	2:1	0	2:1			118.1						SPECIAL
8A	GREENWAY	6+808.5	6+830		X	18.9	6:1	0	2:1						47.2	23.0		SPECIAL
8A	GREENWAY	6+808.5	6+830		X	15.0	6:1	0	2:1						37.4	18.3		SPECIAL
8A	GREENWAY	6+847.5	6+892.6		X	51.6	6:1	0	2:1									ROAD SIDE
8A	GREENWAY	6+902.6	6+925		X	22.4	6:1	0	2:1									ROAD SIDE
8A	GREENWAY	6+925	6+941.2		X	17.2	2:1	0	2:1									SPECIAL
9A	SR-115	11+448.3	11+455.6	X		7.7	4:1	0	2:1						14.7	9.4		SPECIAL
9A	SR-115	11+521.7	11+532.9	X		11.4	2:1	1.5	2:1		32.5							FILL BENCH
9A	RAMP B	6+500	6+721.9		X	222.5	2:1	1.5	2:1		633.7							FILL BENCH
9A	SR-115	11+599.6	11+610	X		10.5	6:1	0	4:1			32.2						ROAD SIDE
9A	SR-115	11+610	11+630	X		20.1	6:1	0	2:1			50.2						ROAD SIDE
9A	SR-115	11+630	11+640	X		10.0	6:1	0	2:1			25.0						ROAD SIDE
9A	SR-115	11+640	11+760	X		120.0	6:1	0	2:1					229.6		146.3	301	ROAD SIDE
9A	RAMP B	6+517.3	6+560	X		41.9	6:1	0	2:1			104.6						ROAD SIDE
9A	RAMP B	6+560	6+617.6	X		59.6	6:1	0	2:1					114.1		72.7	150	SPECIAL
9A-10A	SR-115	11+760	12+095.5	X		339.6	6:1	2	2:1			847.6						SPECIAL
9A	SR-115	11+582.8	11+620		X	81.3	2:1	0	2:1									SPECIAL
9A	SR-115	11+660	11+690.5		X	33.2	2:1	0	2:1					63.5		40.5	83	SPECIAL
9A-10A	COLLECTOR NO. 6	6+000	6+275	X		275.0	2:1	1.5	2:1		783.2							FILL BENCH
10A	COLLECTOR NO. 6	6+275	6+330	X		53.2	2:1	0	2:1					101.8		64.9	134	SPECIAL
10A	COLLECTOR NO. 6	6+330	6+345.5	X		23.2	1.5:1	0	1.5:1					44.4		28.3	58	SPECIAL
10A	COLLECTOR NO. 6	6+345.5	6+360	X		21.1	2:1	0	2:1					40.4		25.7	53	SPECIAL
10A	COLLECTOR NO. 6	6+354.0	6+356.8	X		24.0	2:1	0	2:1						32.2	29.3		SPECIAL
9A	COLLECTOR NO. 5	5+180	5+190		X	10.1	6:1	0	2:1					19.3		12.3	25	SPECIAL
9A	COLLECTOR NO. 5	5+190	5+210		X	22.0	4:1	0	2:1					42.1		26.8	55	SPECIAL
9A	COLLECTOR NO. 5	5+210	5+235.9		X	35.6	2:1	0	2:1					68.1		43.4	89	SPECIAL
9A	COLLECTOR NO. 5	5+262.8	5+325.6		X	74.0	2:1	0	2:1					141.6		90.2	186	SPECIAL
SUBTOTAL TABLE 1:										0.0	1572.2	3493.1	0.0	1134.6	601.6	1067.0	1488.2	

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

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TABULATED QUANTITIES

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9/30/2015

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N05

DITCHES

SHEET NO.	ROAD	STATION FROM	STATION TO	SIDE LT	SIDE RT	LENGTH M	SLOPE FORE (H/V)	SLOPE BOTTOM WIDTH (m)	SLOPE BACK (H/V)	SEEDED "V" DITCH M2	SODDED TRAPEZOIDAL DITCH M2	SODDED "V" DITCH M2	709M05.08 MACHINED RIP-RAP (CLASS B) TRAPEZOIDAL TONNE	709M05.08 MACHINED RIP-RAP (CLASS B) V DITCH TONNE	CEMENT CONC. DITCH M2	SOD FOR RIP-RAP & PAVED DITCH M2	740M10.03 GEOTEXTILE (TYPE III) (EROSION CONTROL) M2	TYPE
9A	MOUNT VERNON DR	9+012.5	9+030.0	X		16.0	4:1	0	2:1					30.6		19.5	40.2	ROAD SIDE
9A	MOUNT VERNON DR	9+030.0	9+046.3	X		17.5	3:1	0	2:1					33.5		21.3	43.9	ROAD SIDE
9A	MOUNT VERNON DR	9+067.5	9+086.5	X		19.4	4:1	0	2:1					37.1		23.7	48.7	ROAD SIDE
9A	MOUNT VERNON DR	9+021.3	9+051		X	33.2	2:1	0	2:1					63.5		40.5	83.3	SPECIAL
9A	MOUNT VERNON DR	9+051	9+085		X	34.2	4:1	0	4:1					65.4		41.7	85.8	ROAD SIDE
9A	BUNKER HILL RD	9+310.7	9+340	X		30.6	4:1	0	4:1					58.6		37.3	76.8	ROAD SIDE
9A	BUNKER HILL RD	9+308.7	9+344.6		X	39.6	4:1	0	3:1					75.8		48.3	99.4	ROAD SIDE
9A-11A	SR-115	11+737	12+260		X	513.8	2:1	2	1/2:1				1795.4			626.4	190.1	SPECIAL
9A-10A	SR-115	12+095.5	12+118.8	X		26.4	6:1	2	2:1					50.5		32.2	66.3	SPECIAL
10A-11A	SR-115	12+011.8	12+111.9		X	93.4	16.67:1	0	2:1			118.8						BENCH
10A-11A	SR-115	12+033.0	12+120.0		X	77.3	16.67:1	0	2:1			98.3						BENCH
10A-11A	SR-115	12+040.2	12+116.3		X	64.2	16.67:1	0	2:1			81.7						BENCH
11A	COLLECTOR NO. 3	112+109	112+220	X		91.4	6:1	0	2:1			228.1						ROAD SIDE
11A	COLLECTOR NO. 3	112+220	112+225.4	X		18.9	2:1	0	2:1					36.2		23.0	47.4	SPECIAL
11A	COLLECTOR NO. 3	112+109.4	112+116.9		X	15.0	2:1	0	2:1			20.2						BENCH/SPECIAL
11A	COLLECTOR NO. 3	112+116.9	112+150		X	41.7	2:1	0.211	2:1		65.0							SPECIAL
11A	COLLECTOR NO. 3	112+150	112+168.0		X	22.9	3:1	0.211	2:1		41.9							SPECIAL
11A	COLLECTOR NO. 3	112+126.6	112+139.9		X	24.0	2:1	0	2:1			32.4						BENCH/SPECIAL
11A	COLLECTOR NO. 3	112+135.4	112+168.0		X	63.0	3:1	0	2:1			102.1						BENCH/SPECIAL
11A	COLLECTOR NO. 3	112+199.1	112+220		X	20.2	3:1	0	2:1			32.7						SPECIAL
11A	COLLECTOR NO. 3	112+220	112+270		X	48.0	6:1	0	2:1					91.9		58.5	120.5	ROAD SIDE
11A	COLLECTOR NO. 3	112+270	112+330		X	57.3	2:1	0	2:1					109.6		69.9	143.8	SPECIAL
11A-12A	COLLECTOR NO. 3	112+330	112+510		X	178.7	2:1	VARIABLE	2:1				1159.8			217.9	66.1	SPECIAL
12A	COLLECTOR NO. 3	112+510	112+595		X	91.1	2:1	VARIABLE	3:1				813.7			111.1	33.7	SPECIAL
11A	SR-115	12+118.8	12+147.6	X		29.9	6:1	0	2:1			74.6						ROAD SIDE
11A	SR-115	12+147.6	12+160	X		15.2	6:1	0	2:1					29.1		18.5	38.2	SPECIAL
11A	SR-115	12+160	12+240	X		81.4	6:1	0	2:1			203.2						SPECIAL
11A	RAMP A	122+460	122+471.9		X	13.0	3:1	0	3:1					24.9		15.8	32.6	SPECIAL
11A	RAMP A	122+471.9	122+491.7		X	19.5	3:1	0	3:1			37.0						SPECIAL
11A	RAMP A	122+561	122+580		X	21.2	2:1	0	2:1			28.6						SPECIAL
12A	SR-115	12+545	12+624.4	X		80.9	1:1	0	2:1					154.8		98.6	203.1	SPECIAL
13A	MALONEY	1+018	1+039.4	X		21.4	4:1	0	2:1			40.8						ROAD SIDE
13A	MALONEY	1+040.5	1+059.0	X		17.3	4:1	0	2:1									ROAD SIDE
13A	MALONEY	1+059.0	1+080.0	X		20.4	2:1	0	2:1			27.5						SPECIAL
13A	MALONEY	1+085.0	1+097.7	X		17.5	4:1	0	4:1									SPECIAL
13A	MALONEY	1+036.5	1+040.0		X	16.4	3:1	0	3:1					31.4		20.0	41.2	SPECIAL
13A	MALONEY	1+071.0	1+076.0		X	12.6	3:1	0	3:1					24.1		15.4	31.6	SPECIAL
13A	MALONEY	1+079.5	1+085.3		X	5.9	2:1	1	3:1				20.6			7.2	2.2	SPECIAL
13A	MALONEY	1+122.8	1+134.0		X	7.0	2:1	1	3:1				24.5			8.5	2.6	SPECIAL
13A	MALONEY	1+167.0	1+206.7		X	28.7	2:1	0.6	2:1				100.3			35.0	10.6	SPECIAL
13A	MALONEY	1+149	1+201	X		66.4	2:1	0	2:1	89.5								SPECIAL
13A	MALONEY	1+187.1	1+199.4	X		47.6	3:1	0	3:1	90.3								SPECIAL
13A	COLLECTOR NO 1	1+570.1	1+600.0		X	36.5	3:1	0	3:1	69.3								SPECIAL
13A	COLLECTOR NO 1	1+620	1+660		X	36.3	4:1	0	4:1			89.8						ROAD SIDE
13A	COLLECTOR NO 1	1+660	1+677		X	15.6	4:1	0	4:1			38.6						SPECIAL
16A	MONTLAKE	8+057	8+070	X		14.4	6:1	0	2:1			35.9						SPECIAL
16A	MONTLAKE	8+070	8+092.4	X		29.3	4:1	0	2:1			55.9						SPECIAL
16A	MONTLAKE COURT	9+520	9+534.3	X		20.3	3:1	0	3:1			38.5						SPECIAL
16A	MONTLAKE COURT	9+520	9+534.3	X		20.3	3:1	0	3:1			38.5						SPECIAL
16A	MONTLAKE COURT	9+554.3	9+578.1	X		24.5	3:1	0	3:1			46.5						SPECIAL
11A-16A	MONTLAKE COURT	9+587	9+620	X		33.2	3:1	0	3:1			63.0						SPECIAL
11A-16A	MONTLAKE COURT	9+541.1	9+573.4		X	32.3	2:1	0	2:1			43.5						SPECIAL
SUBTOTAL TABLE 2:										249.1	106.9	1576.4	3914.3	917.0	0.0	1590.3		
SUBTOTAL TABLE 1:										0.0	1572.2	3493.1	0.0	1134.6	601.6	1067.0		
TOTALS:										249.1	1679.2	5069.5	3914.3	2051.6	601.6	2657.4		

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N06

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

STORM DRAINAGE PIPES

	SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (m) 450 mm	600 mm	750 mm	900 mm	1200 mm	1500 mm	1800 mm	REINF. CONC. PIPE-CLASS IV SIZE & LENGTH (m) 600 mm	1200 mm	1500 mm	1800 mm	REINF. CONC. PIPE-CLASS V SIZE & LENGTH (m) 900 mm	1200 mm	1800 mm	B.C.C. METAL SIZE & LENGTH (m) 450 mm	1200 mm	RIP-RAP 709M05.06 (tonne)
	4A	1	257.900	70	258.000	1.3	7.7																
	5A	18	256.800	17	257.000	0.5	39.8																
	5A	17	257.000	16	257.050	0.60	7.8																
	5A	16	257.050	15	257.300	0.70	34.8																
	5A	15	257.300	14	257.600	1.30	22.8																
	4A-5A	14	257.600	6	258.820	1.50	78.8																
	4A	6	258.820	5	259.750	1.60	58.8																
	5A	18	256.800	19	257.910	2.9	38.8																
	5A	11	256.993	236	257.764	5.9		13.2															
	5A	12	255.895	11	256.993	1.1		64.1															
	5A	35	255.500	34	255.690	0.7				28.4													
	5A	34	255.690	33	255.750	0.7				9.0													
	5A	33	255.750	32	255.800	0.7				7.0													
	5A	32W	255.840	32	255.800	2.2	1.8																
	5A	33W	255.790	33	255.750	2.2	1.8																
	5A	34W	256.068	34	255.690	2.1	1.8																
1	5A-13A	165	253.876	35	254.994	3.2							34.9										
1	5A	35	254.994	35W	255.353	7.9						4.6											
1	5A	35W	255.353	18	256.165	5.1						15.6											
1	5A	18	256.165	23	256.352	0.9						20.6											
1	5A	23	256.352	24	256.419	1.3						5.1											
1	5A	36	256.246	36A	256.286	3.2				1.3													
1	5A	36A	256.336	37	256.947	2.3				26.7													
1	5A	37	256.947	38	257.141	0.5				27.9													
1	5A-13A	38	257.141	39	257.190	1.0				3.0													
	5A	35	255.500	36	256.246	4.9				15.1													
	5A	36	256.246	40	258.388	2.5			84.7														
	5A	40	258.388	41	258.755	1.4			25.5														
	5A-6A	41	258.755	46	259.567	1.4		58.5															
	6A	46	259.567	47	259.746	0.5		35.9															
	6A	47	259.746	79	259.852	1.7	6.2																
	6A	79	259.852	48	259.923	1.4	5.0																
	6A	48	259.923	48A	260.375	2.5	17.5																
	6A	48	259.923	49	260.650	7.3	10.0																
	6A	49	260.650	50	261.940	13.4	9.6																
	6A-14A	50	261.940	167	266.270	16.3	26.5																
	14A	167	266.270	166	266.310	0.7	6.0																
	5A	40	258.388	40W	258.435	1.5	3.1																
1	5A	41	258.684	41W	259.073	8.3	4.8																
	6A	46	259.567	46W	259.628	3.4	1.8																
	6A	47	259.746	47W	259.786	2.2	1.8																
	5A	23	256.493	22	256.808	0.8				38.9													
	5A	22	256.808	21	257.150	0.6				56.0													
1	5A	21	257.243	20	257.393	3.6				4.2													
	5A	22	256.808	22W	256.848	2.7	1.5																
	5A	23	256.643	25	257.000	2.7			13.4														
	5A	25	257.000	261	257.235				16.1														
	5A	261	257.235	26	257.629				26.9														
	5A	26	257.629	27	257.809	1.6			11.0														
	5A	27	257.809	29	258.155	1.4			24.0														
	5A	29	258.155	30	258.698	1.7			31.5														
	5A-6A	30	258.698	54	259.388	1.2			59.0														
	6A	54	259.400	64	259.689	16.0	1.8																
	6A	54	259.400	54W	259.785	8.1	4.5																
	5A	25	257.000	25W	257.040	0.5	7.3																
1	5A	26	257.629	26W	257.669		8.4																
1	5A	26	257.629	28	257.696			2.6															
	5A	29	258.155	29W	258.195	1.7	2.3																
1	5A	30	258.698	30W	258.738		4.7																
1	5A	30	258.698	31	259.000	16.5		1.8															
1	5A	245	260.280	244	260.533	2.6	9.8																
	SUBTOTALS TABLE 1:						**427.3**	**176.1**	**292.1**	**217.5**	**0.0**	**45.9**	**34.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

1. SEE CROSS DRAIN TABULATION TABLES.

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N07

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

STORM DRAINAGE PIPES

	SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (m) 450 mm	600 mm	750 mm	900 mm	1200 mm	1500 mm	1800 mm	REINF. CONC. PIPE-CLASS IV SIZE & LENGTH (m) 600 mm	1200 mm	1500 mm	1800 mm	REINF. CONC. PIPE-CLASS V SIZE & LENGTH (m) 900 mm	1200 mm	1800 mm	B.C.C. METAL SIZE & LENGTH (m) 450 mm	1200 mm	RIP-RAP 709M05.06 (tonne)
1	5A	44	260.034	44A	260.957	5.6		17.5															
1	5A	44A	261.005	45	261.398	5.2		7.5															
	4A	8	258.156	9	258.168	0.5		3.9															
	6A	71	257.647	52	258.356	1.8	39.9																
	6A	52	258.356	51	259.200	1.5	55.5																
	6A	51	259.200	51W	259.240	2.2	1.8																
	6A	52	258.356	52W	258.396	2.2	1.8																
	6A	71	256.756	71W	257.036	5.0	5.6																
1	6A	68	256.066	59	256.263	2.6					7.2												
1	6A	59	256.263	59W	256.776	10.5	4.9																
	6A	59	256.563	58	257.860	7.0		18.5															
	6A	58	257.860	57	258.196	0.6		55.8															
	6A	57	258.196	63	258.245	0.6		8.5															
	6A	63	258.245	56	259.580	3.0		44.5															
	6A	56	259.580	55	259.716	7.3	1.9																
	6A	56	259.580	56W	259.707	2.8	4.6																
	6A	63	259.186	60	259.223	0.6		6.1															
	6A	60	259.339	62	259.676	2.9		11.5															
	6A	62	259.792	65	261.000	4.8		25.1															
	6A	60	259.339	61	259.474	0.9		14.6															
	6A	58	257.860	58W	257.900	2.2	1.8																
1	6A	67	260.284	69	260.441	2.5		6.4															
1	6A	69	260.441	66	260.697	2.5		10.4															
	6A	59	256.263	77	257.008	2.1				35.9													
	6A-7A	77	257.008	260	257.094	0.6				15.6													
	7A	260	257.094	78	257.300	0.6				36.7													
	6A-7A	77W	257.582	258	257.947	2.6	13.8																
	74	77W	257.582	258	257.955	2.4	15.6																
	7A	78	257.300	80	258.420	4.8				23.5													
	7A	80	258.570	81	260.850	2.4			95.5														
	7A	81	260.850	82	263.280	3.5			69.5														
	7A-8A	82	263.280	97	265.980	3.4			80.5														
	8A	97	265.980	98	267.910	3.5			55.5														
	8A	98	268.060	99	268.810	1.4		53.5															
	8A	99	268.810	100	270.790	2.9		68.5															
	8A	100	270.940	101	271.130	0.5	38.5																
	6A-7A	77	257.458	77W	257.582	1.0	12.4																
1	5A-13A	158	255.000	12	255.895	2.5			35.5														
1	5A	12	255.895	12W	256.237	7.4	4.7																
	6A	57	258.470	57W	258.510	0.7	5.7																
1	7A	104	257.008	105	257.095	1.0		8.7															
1	7A	105	257.195	106	257.357	1.0		16.3															
1	7A	106	257.457	108	257.656	4.6		4.4															
1	7A	108	258.161	109	258.384	5.2		6.3															
1	7A	109	258.484	112	258.970	4.3		11.5															
1	7A	113	259.571	114	259.703	1.0		13.2															
	7A	81	260.850	89	261.048	0.6		3.1															
	7A	89	261.048	90	261.148	1.0		6.4															
	7A	82	263.280	102	263.320	1.3		3.1															
	7A	102	263.320	103	263.421	1.0		6.4															
	8A	97	265.980	116	266.143	6.5		2.5															
	8A	116	266.143	118	266.221	1.1		6.8															
	8A	99	268.810	119	268.845	1.0		3.4															
	8A	119	268.845	120	268.925	1.1		6.8															
	8A	120	268.925	122	269.503	0.6		96.3															
	8A-9A	122	269.425	128	270.462	1.5		68.1															
	9A	128	270.462	123	270.540	1.2		6.3															
	6A	71	255.900	53	256.900	14.1				7.1													
	6A-7A	53	256.900	72	257.000	0.7				14.5													
	7A	72	257.000	73	257.200	1.3				15.8													
	7A	73	257.200	74	258.080	1.3				65.8													
	SUBTOTALS TABLE 2:						**208.5**	**621.9**	**336.5**	**214.9**	**7.2**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

1. SEE CROSS DRAIN TABULATION TABLES.

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N08

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

STORM DRAINAGE PIPES

	SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (m) 450 mm	600 mm	750 mm	900 mm	1200 mm	1500 mm	1800 mm	REINF. CONC. PIPE-CLASS IV SIZE & LENGTH (m) 600 mm	1200 mm	1500 mm	1800 mm	REINF. CONC. PIPE-CLASS V SIZE & LENGTH (m) 900 mm	1200 mm	1800 mm	B.C.C. METAL SIZE & LENGTH (m) 450 mm	1200 mm	RIP-RAP 709M05.06 (tonne)
	7A	74	258.080	75	260.270	2.6				83.8													
	7A	75	260.270	76	262.640	3.4				69.8													
	7A-8A	76	262.640	91	265.050	3.3				72.6													
	8A	91	265.050	92	267.980	3.90				75.5													
	8A	92	267.980	93	270.470	2.70				91.5													
	8A	93	270.470	93W	570.510	2.20	1.8																
	6A	53	256.900	53W	256.940	2.20	1.8																
1	6A	221	252.994	227	254.478	10.90						12.2											
1	6A-7A	249	253.222	115	254.295	1.0							103.7										
	7A	72	257.000	72W	257.040	2.20	1.8																
	7A	73	257.200	73W	257.240	2.20	1.8																
	7A	74	258.080	74W	258.120	2.20	1.8																
	7A	75	260.270	75W	260.310	2.20	1.8																
	7A	76	262.640	76W	262.680	2.20	1.8																
	8A	91	265.050	91W	265.090	2.20	1.8																
	8A	92	257.980	92W	258.020	0.60	1.8																
	8A	98	268.060	94	268.205	0.8			17.2														
	8A	94	268.250	95	269.900	1.7		53.7															
	8A	95	270.050	96	271.220	2.0	58.7																
	8A	122	269.425	121	269.503	1.1		6.8															
1	9A	141	264.038	140	267.000	22.9		13.0															
	9A	140	268.400	138	271.026	2.4		108.5															
	9A	138	271.026	138W	271.319	1.7		17.2															
1	9A	150	265.117	154	265.718	2.3					26.1												
	9A	154	265.818	170	267.927	2.9					71.6												
	9A	170	268.127	171	269.246	2.9					38.9												
	8A-9A	171	269.446	184	270.383	0.6					169.4												
1	8A	184	270.525	172	270.710	1.4					13.7												
1	9A	171	270.196	246	271.000	4.1		19.9															
	9A	246	271.100	247	271.170	1.3	5.2																
	9A	246	271.100	248	271.170	1.3	5.2																
1	9A	144	264.416	146	270.072	10.9		51.9															
1	9A	142	261.449	148	261.566	1.7					2.7												
1	9A	148	261.633	228	261.975	13.6					2.6												
1	9A	228	262.042	147	263.600	7.7		20.1															
1	11A	178	252.407	216	252.930	0.8														64.2			
1	10A-11A	216	253.126	190	253.668	0.8														66.3			
1	10A	190	253.863	175	255.000	0.9										122.1							
1	10A	175	255.200	174	258.000	5.1					54.6												
1	10A	174	258.200	173	258.800	1.0									61.5								
1	9A-10A	173	259.000	150	260.062	0.9									114.7								
1	9A	150	260.265	250	260.311	0.6									7.2								
	11A	180	255.621	179	255.800	1.1		16.1															
	11A	179	255.852	145	256.362	19.7		2.6															
	11A	145	256.470	139	257.200	1.1		65.5															
	11A	139	257.200	137	258.100	1.3		71.5															
	10A-11A	137	258.100	129	258.840	1.9		38.5															
	10A	129	258.840	127	260.329	2.9		63.5															
	10A	127	260.329	126	260.900	1.3		43.5															
	10A	126	260.900	125	262.077	1.7		68.5															
	10A	125	262.077	111	263.182	2.9		38.5															
	10A	111	263.182	124	264.540	2.8		48.5															
	9A-10A	124	264.390	117	266.200	3.1	58.5																
	9A	117	266.200	151	266.621	2.0	3.1																
1	10A	234	268.666	235	268.701	0.6	5.8																
	10A	235	268.818	236	272.481	3.4	108.6																
1	9A	232	272.891	233	272.999	0.6	18.1																
1	10A	190	253.863	194	254.088	1.2													18.0				
1	10A	194	254.154	188	254.690	1.0													53.5				
1	10A-16A	207	266.806	208	267.000	2.0	9.7																
	10A	124	264.540	176	264.601	2.0	3.1																
	SUBTOTALS TABLE 3:						**292.2**	**747.8**	**17.2**	**393.2**	**379.6**	**12.2**	**103.7**	**0.0**	**183.4**	**122.1**	**0.0**	**0.0**	**71.5**	**130.5**	**0.0**	**0.0**	**0.0**

1. SEE CROSS DRAIN TABULATION TABLES.

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N09

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

STORM DRAINAGE PIPES

	SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	REINFORCED CONC. PIPE-CLASS III SIZE & LENGTH (m) 450 mm	600 mm	750 mm	900 mm	1200 mm	1500 mm	1800 mm	REINF. CONC. PIPE-CLASS IV SIZE & LENGTH (m) 600 mm	1200 mm	1500 mm	1800 mm	REINF. CONC. PIPE-CLASS V SIZE & LENGTH (m) 900 mm	1200 mm	1800 mm	B.C.C. METAL SIZE & LENGTH (m) 450 mm	1200 mm	RIP-RAP 709M05.06 (tonne)
	10A	127	260.329	177	260.360	1.0	3.1																
1	11A	136	255.534	197	256.250	2.80			25.3														
1	11A	197	256.400	135	257.019	3.60			17.3														
	11A	135	257.019	134	257.350	0.60		58.8															
	11A	134	257.350	133	257.890	0.90		58.8															
	11A	133	257.890	132	258.380	1.30	38.8																
	11A	132	258.380	131	259.190	1.7	48.8																
	10A-11A	131	259.190	130	260.000	1.2	68.8																
	10A	130	260.000	251	260.829	1.4	28.8																
	11A	197	256.400	149	256.629	0.6		38.2															
1	11A	178	257.000	195	257.563	1.7								33.8									
1	11A	216	254.026	192	256.938	5.5												52.8					
1	11A	181	265.900	210	266.140	5.8				5.6													
1	11A	210	266.240	182	267.082	3.6				16.9													
	11A	210	266.240	184	266.530	15.3		1.9															
	11A	184	266.730	183	267.492	5.8		13.2															
	11A	183	267.692	213	269.045	9.9		13.7															
	11A	213	269.245	212	272.454	11.1		28.8															
1	11A	212	272.554	211	272.746	1.9		10.0															
1	12A	199	254.450	201	256.100	8.3	20.4																
1	12A	201	256.200	200	256.400	5.8	3.5																
1	12A	186	252.500	203	255.420	17.3	16.9																
1	12A	203	255.520	202	255.647	3.8	3.4																
	12A	202	255.647	223	256.064	1.1	38.5																
1	12A	187	250.600	206	255.156	21.3		21.5															
1	12A	206	255.256	205	255.300	1.3		3.4															
1	12A	205	255.300	242	255.676	1.2	19.5																
	12A	242	255.780	241	256.056	0.7	37.5																
	12A	242	255.780	243	256.026	0.6	38.5																
	12A	205	255.450	218	255.750	0.8	38.5																
	12A	205	255.450	219	255.654	0.6	33.0																
	12A	219	255.654	220	255.828	0.6	28.5																
1	12A	189	248.331	187	248.446	0.5							23.3										
1	12A	187	248.461	186	248.803	0.5							68.4										
1	12A	186	248.816	185	249.381	0.5											113.2						
1	11A-12A	185	249.394	180	249.993	0.5														119.9			
1	11A	180	250.177	196	250.208	0.5											6.2						
1	12A	237	249.955	238	251.286	9.8		13.7															
1	12A	238	251.364	239	252.021	9.6		6.9															
1	12A	238	251.325	240	252.961	6.5		25.1															
1	13A	157	254.240	156	255.689	6.0		24.4															
1	13A	164	253.320	165	253.876	0.9							58.2										
	13A	165	253.876	193	254.578	1.0			72.0														
	12A	256	254.925	257	255.672	1.9	38.5																
	12A	256	254.625	255	255.092	1.2			37.8														
	12A	255	255.092	254	255.334	0.9			26.9														
	12A	254	255.484	253	255.946	0.6		75.7															
	11A-12A	253	255.946	252	256.713	1.1		69.1															
	11A	252	256.713	251	257.627	1.6		56.5															
1	9A	262	266.693	263	274.128	4.0															20.2		
	SUBTOTALS TABLE 4:						**505.0**	**519.7**	**179.3**	**22.5**	**0.0**	**0.0**	**149.9**	**33.8**	**0.0**	**0.0**	**119.4**	**52.8**	**0.0**	**119.9**	**20.2**	**0.0**	**0.0**
	SUBTOTALS TABLE 3:						**292.2**	**747.8**	**17.2**	**393.2**	**379.6**	**12.2**	**103.7**	**0.0**	**183.4**	**122.1**	**0.0**	**0.0**	**71.5**	**130.5**	**0.0**	**0.0**	**0.0**
	SUBTOTALS TABLE 2:						**208.5**	**621.9**	**336.5**	**214.9**	**7.2**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
	SUBTOTALS TABLE 1:						**427.3**	**176.1**	**292.1**	**217.5**	**0.0**	**45.9**	**34.9**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
	TOTALS:						**1433.0**	**2065.5**	**825.1**	**848.1**	**386.8**	**58.1**	**288.5**	**33.8**	**183.4**	**122.1**	**119.4**	**52.8**	**0.0**	**250.4**	**20.2**	**0.0**	**0.0**

1. SEE CROSS DRAIN TABULATION TABLES.

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N10

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

JUNCTION BOXES AND CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (m)	DRAINAGE CODE	GRATE /TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (m)	STANDARD DRAWING	ITEM NO.																											
										JUNCTION BOX			TYPE 12		TYPE 14		TYPE 16	TYPE 25			TYPE 26		TYPE 41		TYPE 42					TYPE 43	TYPE 44				TYPE 45	
										611M02.10 TYPE 1	611M02.11 TYPE 2	611M02.12 TYPE 3	611M12.02 1m-2m	611M12.03 2m-3m	611M14.02 1m-2m	611M14.03 3m-4m	611M16.03 2m-3m	611M25.02 1m-2m	611M25.03 2m-3m	611M25.04 3m-4m	611M26.02 1m-2m	611M26.03 2m-3m	611M41.02 1m-2m	611M41.03 2m-3m	611M42.02 1m-2m	611M42.03 2m-3m	611M42.05 4m-5m	611M42.06 5m-6m	611M42.08 7m-8m	611M43.02 1m-2m	611M44.02 1m-2m	611M44.03 2m-3m	611M44.07 6m-7m	611M44.09 8m-9m	611M44.02 1m-2m	611M44.03 2m-3m
5A	SR115	10+315	23.688L	11	258.609	25		1.616										1																			
13A	MALONEY	1+200.540	31.888L	165	256.700	44		2.830																							1						
5A	SR115	10+450	24.361L	35	258.084	25		3.090												1																	
5A	SR115	10+420	23.688L	34	257.571	25		1.881										1																			
5A	SR115	10+409	23.688L	33	257.555	26		1.805													1																
5A	SR115	10+400	23.688L	32	257.567	25		1.767										1																			
5A	SR115	10+450	0.355R	18	258.715	41		2.550																1													
5A	SR115	10+409	0.983R	17	258.512	41		1.512															1														
5A	SR115	10+400	1.000R	16	258.524	41		1.474															1														
5A	SR115	10+364	0.610R	15	258.774	41		1.474															1														
5A	SR115	10+340	0.355R	14	259.127	41		1.527															1														
4A	SR115	10+260	0.355R	6	260.453	41		1.633															1														
4A	SR115	10+200	0.355R	5	261.264	41		1.514															1														
5A	SR115	10+450	23.688R	23	259.261	25		2.909											1																		
5A	SR115	10+409	23.688R	22	259.355	26		2.547														1															
5A	SR115	10+351	23.688R	21	259.813	25		2.570											1																		
5A	SR115	10+351	29.000R	20	259.236	43		1.843																						1							
5A	SR115	10+466.756	24.920L	36	258.417	25		2.171											1																		
5A	COLLECTOR#1	1+730.574	17.663R	37	258.787	26		1.840													1																
5A	COLLECTOR#1	1+721.350	10.216L	38	258.981	26		1.840													1																
5A	COLLECTOR#1	1+719.445	13.597L	39	258.800	42		1.610																	1												
5A	SR115	10+553	24.985L	40	260.008	25		1.620										1																			
5A	SR115	10+580	24.085L	41	260.509	25		1.825										1																			
6A	SR115	10+640	23.688L	46	261.203	25		1.636										1																			
6A	SR115	10+677.440	23.688L	47	261.358	25		1.612										1																			
6A	GINN RD LEFT	2+657	15.800R	79	261.410	25		1.558										1																			
6A	GINN RD LEFT	2+652	9.769R	48	261.543	25		1.620										1																			
6A	GINN RD LEFT	2+640	4.513R	49	262.033	12		1.383					1																								
6A	GINN RD LEFT	2+628	4.210R	50	263.545	12		1.605					1																								
14A	GINN RD LEFT	2+600	4.210R	167	267.735	12		1.465					1																								
14A	SR115	2+600	4.210L	166	267.735	12		1.425					1																						1		
5A	SR115	10+490	0.355R	19	259.339	41		1.429															1														
5A	SR115	10+465	20.065R	25	259.208	25		2.208											1																		
5A	SR115	10+510	27.444R	26	259.437	25		1.808										1																			
5A	SR115	10+523	24.988R	27	259.520	25		1.711										1																			
5A	SR115	10+511.504	21.325R	28	259.196	42		1.500																	1												
5A	SR115	10+547	24.193R	29	259.913	25		1.758										1																			
5A	SR115	10+580	23.668R	30	260.517	25		1.819										1																			
5A	SR115	10+580	26.916	31	260.298	42		1.298																	1												
6A	SR115	10+642.520	23.668R	54	261.214	25		1.814										1																			
6A	SR115	10+642.520	26.948R	64	260.988	42		1.298																	1												
4A	DRESSER	2+365	4.610R	1	259.440	12		1.540					1																								
4A	DRESSER	2+365	4.610L	70	259.440	12		1.440					1																								
4A	DRESSER	2+315.002	1.606R	7	259.644	JBS-2		1.478			1																										
4A	DRESSER	2+315.518	7.688L	8	259.577	JBS-2		1.428			1																										
4A	DRESSER	2+314.5	11.887L	9	259.424	42		1.256	D-CB-42S																1												
6A	SR115	10+860	24.245R	59	259.467	25		3.204												1																	
6A	SR115	10+840	23.688R	58	259.760	25		1.900										1																			
6A	SR115	10+783	23.688R	57	260.623	SPEC 25		2.208											1																		
6A	SR115	10+737	23.688R	56	261.154	25		1.574										1																			
6A	SR115	10+737	27.013R	55	261.035	42		1.319																	1												
6A	GINN RD RT	2+825.5	13.871L	63	260.693	25		2.448											1																		
6A	GINN RD RT	2+830	8.195L	60	260.789	25		1.566										1																			
6A	GINN RD RT	2+830	8.195R	61	260.924	25		1.450	D-CD-25RA									1																			
6A	GINN RD RT	2+842	4.210L	62	261.142	12		1.466					1																								
6A	GINN RD RT	2+869	4.210L	65	262.701	12		1.701					1																								
6A	GINN RD RT	2+892	4.210L	69	262.461	12		2.020						1																							
6A	GINN RD RT	2+892	7.400R	66	262.275	42		1.578																	1												
6A	SR115	10+890	23.688L	53	259.224	25		3.255												1																	
6A	SR115	10+840	23.688L	52	259.760	25		1.404										1																			
6A	SR115	10+783	23.688L	51	260.623	25		1.423										1																			
7A	SR115	10+906	23.688L	72	259.191	16		2.191									1																				
7A	SR115	10+923	23.688L	73	259.231	25		2.031											1																		
SUB TOTAL SHEET 1										0	2	0	8	1	0	0	1	20	7	3	3	1	7	1	7	0	0	0	0	1	0	1	0	1	0	0

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N11

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

JUNCTION BOXES AND CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (m)	DRAINAGE CODE	GRATE /TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (m)	STANDARD DRAWING	ITEM NO.																											
										JUNCTION BOX			TYPE 12		TYPE 14		TYPE 16	TYPE 25			TYPE 26		TYPE 41		TYPE 42						TYPE 43	TYPE 44				TYPE 45	
										611M02.10 TYPE 1	611M02.11 TYPE 2	611M02.12 TYPE 3	611M12.02 1m-2m	611M12.03 2m-3m	611M14.02 1m-2m	611M14.03 2m-3m	611M16.03 2m-3m	611M25.02 1m-2m	611M25.03 2m-3m	611M25.04 3m-4m	611M26.02 1m-2m	611M26.03 2m-3m	611M41.02 1m-2m	611M41.03 2m-3m	611M42.02 1m-2m	611M42.03 2m-3m	611M42.05 4m-5m	611M42.06 5m-6m	611M42.08 7m-8m	611M43.02 1m-2m	611M44.02 1m-2m	611M44.03 2m-3m	611M44.07 6m-7m	611M44.09 8m-9m	611M44.02 1m-2m	611M44.03 2m-3m
7A	SR115	10+990	23.688L	74	260.152	25		2.072											1																		
7A	SR115	11+075	23.688L	75	262.734	25		2.464											1																		
7A	SR115	11+146	23.688L	76	265.032	25		2.392											1																		
8A	SR115	11+220	23.688L	91	267.428	25		2.378											1																		
8A	SR115	11+297	23.812L	92	269.895	25		1.915										1																			
8A	SR115	11+390	23.688L	93	273.055	42		2.585																		1											
6A	SR115	10+905.612	17.100R	77	259.206	45		2.198																													1
7A	SR115	10+953	24.457R	78	259.268	25		1.968										1																			
7A	SR115	10+977.990	24.173R	80	259.883	25		1.463										1																			
7A	SR115	11+075	20.542R	81	262.796	25		1.946										1																			
7A	COLLECTOR#5	4+643.235	3.910L	89	262.690	12		1.606					1																								
7A	COLLECTOR#5	4+643.235	3.910R	90	262.648	12		1.500					1																								
7A	SR115	11+146	17.710R	82	265.151	25		1.871										1																			
7A	COLLECTOR#5	4+714.140	3.910L	102	265.052	12		1.732					1																								
7A	COLLECTOR#5	4+714.140	3.910R	103	264.921	12		1.500					1																								
8A	SR115	11+228	17.720R	97	267.807	25		1.827										1																			
8A	COLLECTOR#5	4+800	3.910L	116	267.714	12		1.571					1																								
8A	COLLECTOR#5	4+800	3.910R	118	267.721	12		1.500					1																						1		
8A	SR115	11+285	17.710R	98	269.652	25		1.742										1																			
8A	SR115	11+285	0.355L	94	270.004	41		1.754															1														
8A	SR115	11+340	0.355L	95	271.546	41		1.496															1														
8A	SR115	11+400	0.355L	96	272.673	41		1.453															1														
8A	SR115	11+340	17.710R	99	271.187	25		2.377											1																		
8A	COLLECTOR#5	4+907.994	3.910L	119	270.949	12		2.104						1																							
8A	COLLECTOR#5	4+907.994	3.910R	120	270.956	12		2.031						1																							
8A	SR115	11+410	17.710R	100	272.366	25		1.576										1																			
8A	COLLECTOR#5	5+005	3.910R	122	271.003	14		1.578							1																						
8A	COLLECTOR#5	5+005	3.910L	121	271.003	14		1.500							1																						
8A	SR115	11+450	17.710R	101	272.723	25		1.593										1																			
9A	COLLECTOR#5	5+075	3.910R	128	271.983	12		1.521					1																								
9A	COLLECTOR#5	5+075	3.910L	123	271.988	12		1.448					1																								
7A	COLLECTOR#5	4+460	7.990R	105	259.152	14		2.057								1																					
7A	COLLECTOR#5	4+460	9.704L	106	258.872	14		1.515							1																						
6A	COLLECTOR#5	4+515.891	28.500R	115	259.822	42		4.872																			1										
7A	COLLECTOR#5	4+520	3.910L	109	259.950	12		1.566					1																								
7A	COLLECTOR#5	4+580	3.910R	114	261.196	12		1.493					1																								
9A	SR115	11+660	17.710R	140	270.421	25		3.421												1																	
9A	SR115	11+550	21.310R	138	272.552	25		1.526										1																			
9A	COLLECTOR#5	5+227.442	21.325R	146	271.672	42		1.600																	1												
12A	SR115	12+520	21.475R	203	257.245	41		1.825															1														
12A	SR115	12+520	17.710R	202	257.248	26		1.601													1																
12A	SR115	12+480	17.710R	223	257.492	25		1.428										1																			
11A	SR115	12+260	21.794R	179	257.646	44		1.846																								1					
11A	SR115	12+260	17.710R	145	257.962	25		1.590										1																			
11A	SR115	12+193	17.710R	139	258.743	25		1.543										1																			
11A	SR115	12+120	17.710R	137	259.666	25		1.566										1																			
10A	SR115	12+080	17.710R	129	260.212	25		1.372										1																			
10A	SR115	12+015	17.710R	127	261.682	25		1.353										1																			
10A	SR115	12+015	21.500R	177	261.366	42		1.006																	1												
10A	SR115	11+970	17.710R	126	262.537	25		1.637										1																			
10A	SR115	11+900	17.710R	125	263.681	25		1.604										1																			
10A	SR115	11+860	17.710R	111	264.632	25		1.450										1																			
10A	SR115	11+810	17.710R	124	266.062	25		1.672										1																			
10A	SR115	11+810	21.500R	176	265.744	42		1.143																	1												
9A	SR115	11+750	17.710R	117	267.807	25		1.607										1																			
9A	SR115	11+750	21.500R	151	267.488	42		1.227																	1												
11A	RAMP A	122+471.938	14.607R	195	258.760	42		1.197	D-CB-42S																1												
11A	SR115	12+161.053	29.658L	216	259.386	44		6.456																									1				
10A	SR115	12+095.397	31.762L	190	259.941	44		6.273																									1				
10A	SR115	11+975.401	24.991L	175	261.656	42RB		6.656																				1									
10A	SR115	11+919.757	23.463L	174	262.318	42RB		4.318																		1											
10A	SR115	11+856.759	24.433L	173	263.572	42RB		4.772																		1											
9A	SR115	11+740.572	19.205L	150	267.153	42		7.091																					1								
SUB TOTAL SHEET 2										**0**	**0**	**0**	**10**	**2**	**3**	**1**	**0**	**21**	**5**	**1**	**1**	**0**	**4**	**0**	**5**	**3**	**1**	**1**	**1**	**0**	**1**	**0**	**2**	**1**	**0**	**1**

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N12

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

JUNCTION BOXES AND CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (m)	DRAINAGE CODE	GRATE /TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (m)	STANDARD DRAWING	ITEM NO.																											
										JUNCTION BOX			TYPE 12		TYPE 14		TYPE 16	TYPE 25			TYPE 26		TYPE 41		TYPE 42						TYPE 43	TYPE 44				TYPE 45	
										611M02.10 TYPE 1	611M02.11 TYPE 2	611M02.12 TYPE 3	611M12.02 1m-2m	611M12.03 2m-3m	611M14.02 1m-2m	611M14.03 2m-3m	611M16.03 2m-3m	611M25.02 1m-2m	611M25.03 2m-3m	611M25.04 3m-4m	611M26.02 1m-2m	611M26.03 2m-3m	611M41.02 1m-2m	611M41.03 2m-3m	611M42.02 1m-2m	611M42.03 2m-3m	611M42.05 4m-5m	611M42.06 5m-6m	611M42.08 7m-8m	611M43.02 1m-2m	611M44.02 1m-2m	611M44.03 2m-3m	611M44.07 6m-7m	611M44.09 8m-9m	611M44.02 1m-2m	611M44.03 2m-3m
9A	SR115	11+713.030	23.586L	154	267.649	42		1.931																1													
9A	SR115	11+640	23.100L	170	270.026	42		2.099																	1												
9A	SR115	11+599.629	20.578L	171	271.461	42		2.215																	1												
9A	RAMP B	6+661	7.210R	246	272.775	14		1.775							1																				1		
9A	SR115	11+686.877	29.656R	148	263.568	JBS-3		2.002				1																									
11A	SR115	12+360	17.710R	197	258.224	25		1.974										1																			
11A	SR115	12+360	0.355L	135	258.589	41		1.570															1														
11A	SR115	12+320	17.710R	149	258.079	25		1.450										1																			
11A	SR115	12+300	0.355L	134	258.978	41		1.628															1														
11A	SR115	12+240	0.355L	133	259.531	41		1.461															1														
11A	SR115	12+200	0.355L	132	260.017	41		1.637															1														
11A	SR115	12+150	0.840L	131	260.686	41		1.496															1														
10A	SR115	12+080	0.355L	130	261.533	41		1.568															1														
10A	COLLECTOR#6	6+348.097	19.044R	194	256.433	JBS-3		2.345				1																									
11A	BARBER HILL	7+513.863	7.932L	210	268.070	12		1.930					1																								
11A	BARBER HILL	7+517.485	6.029L	184	268.230	14		1.700							1																						
11A	BARBER HILL	7+534	3.910L	183	269.142	12		1.650					1																								
11A	BARBER HILL	7+550	3.910L	213	270.695	12		1.650					1																								
11A	BARBER HILL	7+580	4.353L	212	274.506	42		2.052																	1												
11A	BARBER HILL	7+580	6.810R	211	274.046	42		1.300																1													
12A	SR115	12+420	21.152R	201	257.850	41		1.750															1														
12A	SR115	12+420	17.710R	200	257.858	25		1.458										1																			
12A	SR115	12+595	21.457R	206	256.904	41		1.748															1														
12A	SR115	12+595	17.710R	205	256.966	26		1.666													1																
12A	SR115	12+555	17.710R	218	257.050	25		1.300										1																			
12A	SR115	12+630	17.710R	219	257.033	25		1.379										1																			
12A	SR115	12+660	17.710R	220	257.165	25		1.328										1																			
13A	MALONEY	1+040	9.938L	156	257.289	42		1.600																1													
5A	DRESSER	2+146	4.210L	44A	263.956	12		2.999						1																							
9A	COLLECTOR#5	5+280.047	25.213L	228	263.977	JBS-3		2.002				1																									
10A	SR115	12+095.397	31.762L	190	259.941	44		6.273																									1				
5A	SR115	10+380.647	23.688L	12	257.665	25		1.770										1																			
5A	SR115	10+380.647	17.100L	12W	257.943	41		1.706															1														
5A	SR115	10+400	17.100L	32W	257.824	41		1.984															1														
5A	SR115	10+409	17.100L	33W	257.806	45		2.016																													1
5A	SR115	10+420	17.100L	34W	257.822	41		1.754															1														
5A	SR115	10+450	17.100L	35W	258.259	41		2.906	D-CB-25SD															1													
5A	SR115	10+510	17.100R	26W	259.548	41		1.879															1														
5A	SR115	10+580	17.100R	30W	260.655	41		1.917															1														
5A	SR115	12+553	17.100L	40W	260.172	41		1.737															1														
5A	SR115	10+580	17.100L	41W	260.643	41		1.846															1														
6A	SR115	10+640	17.100L	46W	261.345	41		1.717															1														
6A	SR115	10+677.440	17.100L	47W	261.496	41		1.710															1														
6A	SR115	10+709.759	29.050L	48A	261.660	25		1.300										1																			
9A	RAMP B	6+570	7.210R	233	274.299	12		1.300					1																								
5A	SR115	10+466.756	26.923L	36A	257.911	JBS-2		1.626			1																										
12A	SR115	12+555	2.683L	241	257.394	41		1.310															1														
12A	SR115	12+595	3.470L	242	257.257	45		1.581																												1	
12A	SR115	12+635	4.274L	243	257.326	41		1.300															1														
10A	COLLECTOR#6	6+290	10.510L	235	270.001	12		1.300					1																								
12A	COLLECTOR#3	122+666	3.300 R	238	252.487	JBS-1		1.201		1																											
12A	COLLECTOR#3	122+666	4.712L	239	253.723	12		1.702					1																								
12A	SR115	12+700.746	64.359R	240	254.161	42		1.200																1													
10A	COLLECTOR#6	6+358.285	6.406R	208	269.256	42		2.256																	1												
8A	GREENWAY	6+832.194	10.612R	172	272.870	44		2.160																								1					
8A	SR115	11+430.225	26.899L	184	273.200	42		2.817																	1												
5A	DRESSER	2+100	4.210L	244	261.833	12		1.300					1																								
9A	SR115	11+550	0.355L	138W	272.919	41		1.600															1														
10A	SR115	12+020	0.355L	251	262.279	41		1.450																1													
6A	SR115	10+783	17.100L	51W	260.761	41		1.521																1													
6A	SR115	10+840	17.100L	52W	259.897	41		1.501																1													
6A	SR115	10+881.395	23.688L	71	259.270	25		4.557													1																
6A	SR115	10+881.395	17.100L	71W	259.446	41		2.410																1													
SUB TOTAL SHEET 3										**1**	**1**	**3**	**7**	**1**	**2**	**0**	**0**	**8**	**0**	**0**	**2**	**0**	**20**	**4**	**5**	**5**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**1**

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DEPARTMENT OF TRANSPORTATION

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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N13

JUNCTION BOXES AND CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (m)	DRAINAGE CODE	GRATE /TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (m)	STANDARD DRAWING	ITEM NO.																										
										JUNCTION BOX			TYPE 12		TYPE 14		TYPE 16	TYPE 25			TYPE 26		TYPE 41		TYPE 42					TYPE 43	TYPE 44				TYPE 45	
										611M02.10 TYPE 1	611M02.11 TYPE 2	611M02.12 TYPE 3	611M12.02 1m-2m	611M12.03 2m-3m	611M14.02 1m-2m	611M14.03 2m-3m	611M16.03 2m-3m	611M25.02 1m-2m	611M25.03 2m-3m	611M25.04 3m-4m	611M26.02 1m-2m	611M26.03 2m-3m	611M41.02 1m-2m	611M41.03 2m-3m	611M42.02 1m-2m	611M42.03 2m-3m	611M42.05 4m-5m	611M42.06 5m-6m	611M42.08 7m-8m	611M43.02 1m-2m	611M44.02 1m-2m	611M44.03 2m-3m	611M44.07 6m-7m	611M44.09 8m-9m	611M44.02 1m-2m	611M44.03 2m-3m
6A	SR115	10+890	17.100L	53W	259.361	41		2.421																1												
7A	SR115	10+906	17.100L	72W	259.328	45		2.288																												1
7A	SR115	10+923	17.100L	73W	259.369	41		2.129																1												
7A	SR115	10+950	17.100L	74W	260.289	41		2.169																1												
7A	SR115	11+750	17.100L	75W	262.871	41		2.561																1												
7A	SR115	11+146	17.100L	76W	265.269	41		2.589																1												
8A	SR115	11+220	17.100L	91W	267.565	41		2.475																1												
8A	SR115	11+297	17.100L	92W	270.046	41		2.026																1												
8A	SR115	11+390	17.100L	93W	272.930	41		2.420																1												
5A	SR115	10+409	17.678R	22W	259.140	45		2.292																												1
5A	SR115	10+465	17.100R	25W	259.117	41		2.077																1												
5A	SR115	10+510	17.100R	26W	259.548	41		1.879														1														
5A	SR115	10+547	17.100R	29W	260.060	41		1.865														1														
5A	SR115	10+580	17.100R	30W	260.655	41		1.917														1														
6A	SR115	10+642.520	17.100R	54W	261.361	41		1.933														1														
6A	SR115	10+737	17.100R	56W	261.292	41		1.672														1														
6A	SR115	10+783	17.100R	57W	260.761	41		2.251																1												
6A	SR115	10+840	17.100R	58W	259.897	41		1.997														1														
6A	SR115	10+860	17.100R	59W	259.604	41		2.828																1												
6A	SR115	10+905.612	17.100R	77W	259.314	45S		1.732																										1		
6A	SR115	10+890.421	33.644R	249		TIE EX. RCB																														
9A	SR115	11+689.359	27.218R	142		TIE EX. RCB																														
9A	SR115	11+734.897	17.524L	250		TIE EX. RCB																														
11A	SR115	12+273.264	16.44R	196		TIE EX. RCB																														
11A	RAMP A	122+400	6.610R	251	259.127	12		1.500	D-CB-12P				1																							
11A	SR115	12+380	21.310L	252	258.353	12		1.640	D-CB-12P				1																							
12A	SR115	12+450	21.310L	253	258.586	12		1.640	D-CB-12P				1																							
12A	SR115	12+527	21.910L	254	257.124	12		1.790	D-CB-12RB				1																							
12A	SR115	12+555	17.382L	255	257.039	41		1.947	D-CB-41RB													1														
12A	SR115	12+594.712	18.404L	256	256.896	45		2.400	D-CB-45S																											1
12A	SR115	12+635	19.441L	257	256.992	41		1.320	D-CB-41P													1														
6A	SR115	10+890	17.100R	258	259.347	41		1.400														1														
7A	SR115	10+923	17.100R	259	259.355	41		1.400														1														
7A	SR115	10+915.138	25.748R	260	259.154	25		2.060											1																	
5A	SR115	10+482.043	25.525R	261	259.320	25		2.085											1																	
9A	COLLECTOR#5	5+382.688	7.923R	263	275.928	12		1.800	D-CB-12				1																							
SUB TOTAL SHEET 4										**0**	**0**	**0**	**5**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**10**	**11**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**3**
SUB TOTAL SHEET 3										**1**	**1**	**3**	**7**	**1**	**2**	**0**	**0**	**8**	**0**	**0**	**2**	**0**	**20**	**4**	**5**	**5**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**1**
SUB TOTAL SHEET 2										**0**	**0**	**0**	**10**	**2**	**3**	**1**	**0**	**21**	**5**	**1**	**1**	**0**	**4**	**0**	**5**	**3**	**1**	**1**	**1**	**0**	**1**	**0**	**2**	**1**	**0**	**1**
SUB TOTAL SHEET 1										**0**	**2**	**0**	**8**	**1**	**0**	**0**	**1**	**20**	**7**	**3**	**3**	**1**	**7**	**1**	**7**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**0**	**1**	**0**	**0**
TOTALS :										**1**	**3**	**3**	**30**	**4**	**5**	**1**	**1**	**49**	**14**	**4**	**6**	**1**	**41**	**16**	**17**	**8**	**1**	**1**	**1**	**1**	**1**	**2**	**3**	**3**	**2**	**5**

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N14

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

CONCRETE CURB & COMBINED CURB & GUTTER

LOCATION	STATION FROM	STATION TO	SIDE LT	SIDE RT	LENGTH M	M3/M	CONCRETE CURB 702M01 (M3)	CONCRETE COMBINED CURB & GUTTER 702M03 (M3)	REMARKS TYPE
SR 115	10+000.000	10+002.774			8.715	0.05658	0.5		100mm SLOPING DETACHED
SR 115	10+339.000	10+455.427		X	118.218	0.25717		30.4	D300, 150-838
SR 115 & DRESSER	10+455.427	2+064.583		X	48.890	0.25717		12.6	D300, 150-838
SR 115 & DRESSER ISLAND	10+486			X	51.041	0.07185	3.7		150mm DETACHED
SR 115	10+300.000	10+468.750	X		166.159	0.25717		42.7	D300, 150-838
SR 115 & COLLECTOR NO. 1	10+468.750	1+703.423	X		58.340	0.25717		15.0	D300, 150-838
COLLECTOR NO. 1 & SR115	1+703.423	10+532.600	X		58.148	0.25717		15.0	D300, 150-838
SR 115 & COLLECTOR NO. 1 ISLAND	10+510		X		76.488	0.07185	5.5		150mm DETACHED
SR 115	10+552.900	10+678.141	X		125.263	0.25717		32.2	D300, 150-838
SR115 & GINN RD LT,	10+678.141	2+632.684	X		33.297	0.25717		8.6	D300, 150-838
GINN RD LT & SR115	2+646.849	10+722.318	X		20.545	0.25717		5.3	D300, 150-838
DRESSER & SR115	2+045.171	10+523.144		X	42.459	0.25717		10.9	D300, 150-838
SR 115	10+523.144	10+600.837		X	77.715	0.25717		20.0	D300, 150-838
SR 115 & SOUTH CIRCLE	10+600.837	3+035.212		X	23.195	0.25717		6.0	D300, 150-838
SOUTH CIRCLE & SR 115	3+045.729	10+641.869		X	27.771	0.25717		7.1	D300, 150-838
SR 115	10+641.869	10+738.400		X	96.531	0.25717		24.8	D300, 150-838
SR115 & GINN RD RT.	10+738.400	2+841.081		X	28.278	0.25717		7.3	D300, 150-838
GINN RD RT. & SR 115	2+841.078	10+781.600		X	28.274	0.25717		7.3	D300, 150-838
SR 115	10+781.600	10+882.240		X	100.662	0.25717		25.9	D300, 150-838
SR115 & COLLECTOR NO.5	10+882.240	4+468.665		X	46.675	0.25717		12.0	D300, 150-838
COLLECTOR NO.5 & SR115	4+450.945	10+954.561		X	20.050	0.25717		5.2	D300, 150-838
SR 115 & COLLECTOR NO. 5 ISLAND	10+920			X	50.698	0.07185	3.6		150mm DETACHED
SR 115	10+954.561	12+704.307		X	1740.851	0.25717		447.7	D300, 150-838
SR 115	10+722.318	11+252.234	X		529.916	0.25717		136.3	D300, 150-838
SR 115 & COLLECTOR NO. 2	11+252.234	3+877.555	X		27.551	0.25717		7.1	D300, 150-838
COLLECTOR NO. 2 & SR115	3+875.672	11+298.624	X		28.551	0.25717		7.3	D300, 150-838
SR 115	11+298.624	11+425.000	X		127.077	0.25717		32.7	D300, 150-838
MALONEY & COLLECTOR NO. 1	1+060.128	1+536.660	X		53.094	0.16103		8.5	D200, 150-775
COLLECTOR NO. 1	1+536.660	1+703.423	X		174.183	0.16103		28.0	D200, 150-775
MALONEY	1+060	1+065.434		X	5.629	0.16103		0.9	D200, 150-775
MALONEY & DWY 1+107	1+065.434	0+027.342		X	43.317	0.16103		7.0	D200, 150-775
DWY 1+107 & MALONEY	0+027.786	1+121.272		X	14.918	0.16103		2.4	D200, 150-775
MALONEY	1+121.272	1+220.394		X	92.797	0.16103		14.9	D200, 150-775
MALONEY	1+319.092	1+333.671		X	14.580	0.16103		2.3	D200, 150-775
DRESSER RD	2+045.171	2+152.997	X		112.432	0.16103		18.1	D200, 150-775
MALONEY & DRESSER RD	1+351.461	2+273.053		X	91.261	0.16103		14.7	D200, 150-775
DRESSER RD	2+273.053	2+368.000		X	94.640	0.16103		15.2	D200, 150-775
DRESSER RD & MALONEY	2+152.997	1+411.253	X		65.370	0.16103		10.5	D200, 150-775
MALONEY	1+411.253	1+423.000	X		11.496	0.16103		1.9	D200, 150-775
MALONEY & DRESSER RD	1+406.000	2+243.065	X		45.593	0.16103		7.3	D200, 150-775
DRESSER RD	2+243.065	2+368.000	X		124.141	0.16103		20.0	D200, 150-775
GINN RD. LT	2+540.000	2+646.849	X		108.231	0.16103		17.4	D200, 150-775
GINN RD. LT	2+540.000	2+632.684		X	92.040	0.16103		14.8	D200, 150-775
GINN RD. RT	2+841.078	2+900.000	X		57.273	0.16103		9.2	D200, 150-775
GINN RD. RT	2+841.081	2+900.000		X	60.567	0.16103		9.8	D200, 150-775
COLLECTOR NO.5	4+450.945	5+170.000	X		715.788	0.16103		115.3	D200, 150-775
COLLECTOR NO.5	4+468.665	5+170.000		X	707.202	0.16103		113.9	D200, 150-775
MT. VERNON & COLLECTOR NO.5	9+018.001	5+263.191		X	20.245	0.16103		3.3	D200, 150-775
COLLECTOR NO.5	5+263.191	5+295.799		X	35.329	0.16103		5.7	D200, 150-775
COLLECTOR NO.5	5+380.464	5+384.347		X	4.472	0.16103		0.7	D200, 150-775
SUB TOTALS							**13.3**	**1361.2**	

CONCRETE CURB & COMBINED CURB & GUTTER

LOCATION	STATION FROM	STATION TO	SIDE LT	SIDE RT	LENGTH M	M3/M	CONCRETE CURB 702M01 (M3)	CONCRETE COMBINED CURB & GUTTER 702M03 (M3)	REMARKS TYPE
COLLECTOR NO.2	3+840.000	3+875.672	X		36.070	0.16103		5.8	D200, 150-775
COLLECTOR NO.2	3+840.000	3+877.555		X	37.262	0.16103		6.0	D200, 150-775
GREENWAY	6+839.526	6+892.854	X		57.257	0.16103		9.2	D200, 150-775
GREENWAY	6+898.369	6+990.000	X		92.920	0.16103		15.0	D200, 150-775
GREENWAY	6+940.000	7+020.000		X	76.902	0.16103		12.4	D200, 150-775
SR115/GREENWAY	11+448.233	11+532.906	X		85.678	0.16103		13.8	D200, 150-775
RAMP B	6+500.000	6.721.853		X	222.169	0.16103		35.8	D200, 150-775
COLLECTOR NO.5 & COLLECTOR NO.6	5+384.347	6+026.738		X	24.970	0.16103		4.0	D200, 150-775
COLLECTOR NO.6	6+026.738	6+031.305		X	4.567	0.14300		0.7	D200, 150-775
COLLECTOR NO.6	6+000.000	6+295.000	X		294.280	0.16103		47.4	D200, 150-775
COLLECTOR NO.6	6+340.000	6+357.371		X	16.797	0.16103		2.7	D200, 150-775
COLLECTOR NO.5 & COLLECTOR NO.3	6+357.371	112+021.694		X	41.879	0.16103		6.7	D200, 150-775
COLLECTOR NO.3	112+106.538	112+165.994		X	66.814	0.16103		10.8	D200, 150-775
COLLECTOR NO.3 & BARBER HILL	112+165.994	7+516.461		X	18.687	0.16103		3.0	D200, 150-775
BARBER HILL	7+516.461	7+560.000		X	45.577	0.16103		7.3	D200, 150-775
BARBER HILL	7+527.568	7+560.000	X		31.137	0.16103		5.0	D200, 150-775
BARBER HILL & COLLECTOR NO.3	7+527.568	112+201.826		X	30.086	0.16103		4.8	D200, 150-775
RAMP A	122+360.000	122+448.000		X	87.500	0.16103		14.1	D200, 150-775
SR115/GREENWAY	12+361.951	12+528.000	X		166.507	0.16103		26.8	D200, 150-775
COLLECTOR NO.3	112+570.000	112+661.238	X		93.420	0.16103		15.0	D200, 150-775
COLLECTOR NO.3 & SR 115	112+661.238	12+704.307	X		58.478	0.16103		9.4	D200, 150-775
SR 115	11+315	11+360	X		45.116	0.07185	3.2		150mm DETACHED
MALONEY ROUNDABOUT #1	1+107.118				65.282	0.07185	4.7		150mm DETACHED
MALONEY ROUNDABOUT #1	1+107.118				87.965	0.14647		12.9	D200, 100-760 SLOPING
MALONEY ISLAND #1	1+075				46.260	0.07185	3.3		150mm DETACHED
MALONEY ISLAND #1	1+115				13.911	0.07185	1.0		150mm DETACHED
MALONEY ISLAND #1	1+125				59.495	0.07185	4.3		150mm DETACHED
MALONEY ISLAND #1	1+144				70.531	0.07185	5.1		150mm DETACHED
MALONEY ROUNDABOUT #2	1+373.232				65.282	0.07185	4.7		150mm DETACHED
MALONEY ROUNDABOUT #2	1+107.118				87.965	0.14647		12.9	D200, 100-760 SLOPING
MALONEY ISLAND #2	1+348				15.544	0.07185	1.1		150mm DETACHED
MALONEY ISLAND #2	1+353				36.006	0.07185	2.6		150mm DETACHED
MALONEY ISLAND #2	1+364				39.884	0.07185	2.9		150mm DETACHED
MALONEY ISLAND #2	1+373				10.384	0.07185	0.7		150mm DETACHED
MALONEY ISLAND #2	1+397				14.322	0.07185	1.0		150mm DETACHED
COLLECTOR NO.3 ROUNDABOUT	111+993.077				65.282	0.07185	4.7		150mm DETACHED
COLLECTOR NO.3 ROUNDABOUT	1+107.118				87.965	0.14647		12.9	D200, 100-760 SLOPING
MONTLAKE ISLAND	8+144				13.949	0.07185	1.0		150mm DETACHED
COLLECTOR NO.6 ISLAND	6+373				9.439	0.07185	0.7		150mm DETACHED
COLLECTOR NO.3 ISLAND	112+007				37.217	0.07185	2.7		150mm DETACHED
COLLECTOR NO.3 ISLAND	112+018				20.688	0.07185	1.5		150mm DETACHED
SUBTOTAL TABLE 2							**45.2**	**294.4**	
SUBTOTAL TABLE 1							**13.3**	**1361.2**	
REDUCTION FOR LOWERED CONC. CURB							**0.0**	**72.3**	
TOTALS							**59**	**1584**	

1. SEE RP-MC-2 FOR MOUNTABLE CURB AND GUTTERS AND DETACHED CURB DETAILS
2. SEE RP-NMC-10 FOR CURB AND GUTTERS AND DETACHED CURB DETAILS
3. SEE RP-MC-1 FOR SLOPING CURB AND GUTTERS AND DETACHED CURB DETAILS

BOX CULVERT TABULATION

STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA HECTARE	BOX CULVERT: BOX CLASS "A" CONC. M3	BOX CULVERT: BOX REINF. STEEL KG	BOX CULVERT: APRON CLASS "A" CONC. M3	BOX CULVERT: APRON WIRE FABRIC KG	BOX CULVERT: APRON STEEL BAR REINF. KG	CULVERT EXC. M3	DRAWING NO.	BACKFILLING ITEM 303M01.01 DWG. STD-10-1 TONNE	FOUNDATION FILL MATERIAL ITEM 204M08 M3
10+881.4	S.R. 115 LEFT	2440mm	1830mm	19.500m	90°	77.01	51.60	6,320	-	-	-		STD-15-37	669	12.08
10+881.4	S.R. 115 RIGHT	2440mm	1830mm	7.000m	42°33'18" RT	77.01	18.07	2,350	-	-	-		STD-15-37	262	4.72
12+626.43	S.R. 115	3048mm	3048mm	32.000m	87° RT	507	201.67	30,347	-	-	-		STD-15-39	2407	24.10
TOTALS							**271.34**	**39,017**	**0**	**0**	**0**	**0**		**3338**	**40.90**

NOTE: CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

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TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N15

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

DRIVEWAY & SIDE DRAIN TABULATION

SHEET NO.	STATION	TRACT NO.	LOCATION LT	LOCATION RT	DESCRIPTION	SURFACE WIDTH (M)	CMP 16 GA. OR HDPE, PP, OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 3.05m 450mm 607M39.02	600mm 607M39.03	RCP CLASS III OR DRAWING NO.	CLASS A CONC. 611M07.01 (M3)	REINF. STEEL 611M07.02 (KG)	STRUC. STEEL 611M07.03 (KG)	APPROX. DRIVEWAY PAVING AREA [1] (ASPHALT) M2	CONCRETE DRIVEWAY 701M02 (150 mm THICK) M2	MINERAL AGGREG. 303M01 TONNE	DRIVEWAY (BINDER) 307M01.08 TONNE	DRIVEWAY (SURFACES) 411M01.10 TONNE	REMARKS
4B	10+145	97	X		BUSINESS ENTRANCE	5.5							157.23		37.89	17.07	10.68	
4B	0+044	97		X	BUSINESS ENTRANCE	3.0							35.23		8.49	3.83	2.39	
5A	10+541	9		X	BUSINESS ENTRANCE	6.8		12.0	D-SEW-6DA & 6DB	3.80	265	368	205.76		49.59	22.34	13.98	
6A	10+618	15	X		BUSINESS ENTRANCE	13.0							170.11		41.00	18.47	11.55	
6A	10+654	20	X		BUSINESS ENTRANCE	13.0							144.11		34.73	15.65	9.79	
6A	10+774	27	X		BUSINESS ENTRANCE	12.2							271.31		65.39	29.46	18.43	
6A	10+813	27	X		BUSINESS ENTRANCE	12.2							223.09		53.76	24.22	15.15	
7A	10+912	33	X		BUSINESS ENTRANCE	8.8							303.44		73.13	32.95	20.61	
7A	11+013	37	X		BUSINESS ENTRANCE	9.0							185.89		44.80	20.18	12.63	
7A	11+084	37	X		BUSINESS ENTRANCE	9.0							174.65		42.09	18.96	11.86	
7A	11+108	42	X		BUSINESS ENTRANCE	7.6							119.51		28.80	12.98	8.12	
7A	11+168	42	X		BUSINESS ENTRANCE	12.0							62.05		14.95	6.74	4.21	
7A	11+195	42	X		BUSINESS ENTRANCE	9.0							168.69	168.69	40.65			
8A	11+232	42	X		BUSINESS ENTRANCE	9.0							346.84	346.84	83.59			
8A	11+305	49	X		BUSINESS ENTRANCE	12.2							166.25		40.07	18.05	11.29	
8A	11+365	49	X		BUSINESS ENTRANCE	7.2							131.87		31.78	14.32	8.96	
8A	11+386	58	X		PRIVATE DRIVEWAY	4.8		10.0	NO ENDWALL REQD.				395.51		95.32		35.82	
8A	0+087.5	52		X	PRIVATE DRIVEWAY	4.0							450.69		108.62		40.81	
12A	12+537	92	X		PRIVATE DRIVEWAY	12.2							253.30		61.05		22.94	
12A	0+028	92		X	PRIVATE DRIVEWAY	4.0							136.66		32.94		12.38	
4B	2+341	4	X		BUSINESS ENTRANCE	7.6							208.15		50.16	22.60	14.14	
4B	2+307	1		X	BUSINESS ENTRANCE	8.4							267.35		64.43	29.03	18.16	
4B	0+019	1		X	BUSINESS ENTRANCE	8.4							270.24		65.13	29.34	18.35	
4B	2+296	4	X		BUSINESS ENTRANCE	7.6							321.29		77.43	34.89	21.82	
5A	2+255	5	X		BUSINESS ENTRANCE	6.8							337.03		81.22	36.60	22.89	
5A	1+417	5		X	BUSINESS ENTRANCE	9.0	12.0		NO ENDWALL REQD.				391.67		94.39	42.53	26.60	
5A	1+438	6	X		BUSINESS ENTRANCE	4.8	8.0		NO ENDWALL REQD.				351.67		84.75	38.19	23.89	
5A	1+497	6	X		BUSINESS ENTRANCE	4.0	7.0		NO ENDWALL REQD.				75.29		18.14	8.18	5.11	
5A	1+470	1		X	BUSINESS ENTRANCE	7.6	13.0		NO ENDWALL REQD.				98.91		23.84	10.74	6.72	
2 13A	1+107	3		X	PRIVATE DRIVEWAY	4.88							404.30		97.44		36.61	
13A	1+107 END	3		X	PRIVATE DRIVEWAY	3.6							170.97		41.20		15.48	
14A	2+522		X		PRIVATE DRIVEWAY	4.8	8.0		NO ENDWALL REQD.				112.84		27.19		10.22	
14A	2+580	14		X	PRIVATE DRIVEWAY	3.6							104.41	104.41	25.16			
14A	2+592	12	X		PRIVATE DRIVEWAY	4.8							136.20		32.82		12.33	
6A	2+643	21	X		PRIVATE DRIVEWAY	6.8							233.41		56.25		21.14	
6A	2+875	26	X		PRIVATE DRIVEWAY	4.0	15.0		NO ENDWALL REQD.				416.72		100.43		37.74	
6A	3+060	22	X		BUSINESS ENTRANCE	6.8	17.0		NO ENDWALL REQD.				375.43		90.48	40.77	25.50	
6A	3+060	18		X	BUSINESS ENTRANCE	6.8	10.0		NO ENDWALL REQD.				187.52		45.19	20.36	12.74	
6A	3+119	25		X	PRIVATE DRIVEWAY	3.6	7.0		NO ENDWALL REQD.				112.23	112.23	27.05			
6A	3+127	24	X		PRIVATE DRIVEWAY	4.8	9.0		NO ENDWALL REQD.				114.59		27.62		10.38	
6A	3+141	24	X		PRIVATE DRIVEWAY	4.8							66.23	66.23	15.96			
7A	4+510	31 & 35		X	BUSINESS ENTRANCE	12.2							445.56		107.38	48.38	30.26	
7A	0+030	35	X		BUSINESS ENTRANCE	9.2							207.10		49.91	22.49	14.07	
7A	4+560	35		X	BUSINESS ENTRANCE	12.2							158.61		38.23	17.22	10.77	
7A	4+627	35		X	BUSINESS ENTRANCE	12.2							73.31		17.67	7.96	4.98	
7A	4+676	39		X	BUSINESS ENTRANCE	12.2							273.82		65.99	29.73	18.60	
7A	4+722	45		X	BUSINESS ENTRANCE	9.0							56.01		13.50	6.08	3.80	
8A	4+774	45		X	BUSINESS ENTRANCE	9.0							122.25		29.46	13.27	8.30	
8A	4+795	47		X	BUSINESS ENTRANCE	9.0							203.45		49.03	22.09	13.82	
8A	4+815	47		X	BUSINESS ENTRANCE	12.2							185.15		44.62	20.10	12.58	
8A	4+845	47		X	BUSINESS ENTRANCE	9.0							353.29		85.14	38.36	24.00	
8A	4+865	48		X	BUSINESS ENTRANCE	6.0							66.40		16.00	7.21	4.51	
8A	4+971	48		X	BUSINESS ENTRANCE	7.2							101.10		24.37	10.98	6.87	
8A	4+999	51		X	BUSINESS ENTRANCE	12.2							162.08		39.06	17.60	11.01	
9A	5+067	51		X	BUSINESS ENTRANCE	12.2							104.21		25.11	11.32	7.08	
9A	5+150	57		X	BUSINESS ENTRANCE	7.2							130.57		31.47	14.18	8.87	
8A	3+850	49	X		BUSINESS ENTRANCE	3.6							90.53		21.82	9.83	6.15	
8A	3+833	43		X	BUSINESS ENTRANCE	7.6	14.0						203.63		49.07	22.11	13.83	
11A	7+551	72		X	PRIVATE DRIVEWAY	3.0							154.10		37.14		13.96	
11A	9+620.024		X		PRIVATE DRIVEWAY	4.0		10.0	NO ENDWALL REQD.				144.96		34.94		13.13	
16A	9+540.564	84	X		PRIVATE DRIVEWAY	4.0		10.5	NO ENDWALL REQD.				140.57		33.88		12.73	
16A	9+547.565	82	X		PRIVATE DRIVEWAY	4.0		10.5	NO ENDWALL REQD.				140.66		33.90		12.74	
16A	9+581.500	80	X		PRIVATE DRIVEWAY	4.0		9.0	NO ENDWALL REQD.				96.72		23.31		8.76	
TOTALS							**120.0**	**62.0**		**3.8**	**265**	**368**		**798.4**	**3,005.9**	**887.37**	**872.21**	

[1] SEE ROW NOTES SHEET 3 FOR PAVING AREA OF DRIVEWAYS.
[2] FOR SIDE DRAIN, SEE CULVERT SECTION SHEET 38.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N16

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PAVEMENT QUANTITIES FULL DEPTH SR 115

LOCATION	303M01 .250M (tonne)	SHOUL 303M01 .4905M (tonne)	307M02.01 .100M (tonne)	307M02.02 .09525M (tonne)	307M02.08 .051M (tonne)	307M02.03 0.09525M (tonne)	SHOUL 411M01.07 .0375M (tonne)	411M02.10 .0315M (tonne)	402M01 (tonne)	402M02 (tonne)	403M01 (tonne)
SR-115	60779.6		24775.9	600.2	12414.5	17867.8		7194.3	153.83	**545.76**	9.42
	2138.3										
		4264.0					276.6		5.11	**18.14**	0.31
TOTALS	**62917.9**	**4264.0**	**24775.9**	**600.2**	**12414.5**	**17867.8**	**276.6**	**7194.3**	**158.94**	**563.89**	9.73
	67181.9										

PAVEMENT QUANTITIES COLLECTOR NO 1 & MALONEY ROAD

LOCATION	PAY ITEMS 303M01 0.250M (tonne)	303M01 .3015M (tonne)	303M01 0.7265m (tonne)	307M01.08 .0570M (tonne)	411M01.07 .0375M (tonne)	411M01.10 .0315M (tonne)	402M01	402M02	403M01 (tonne)
COLLECTOR NO. 1	1555.0			355.0		184.1	**3.94**	**13.96**	**0.24**
	0.0	252.9		0.0	0.0	0.0	**0.00**	**0.00**	**0.00**
	0.0	0.0	730.5	0.0	21.8	0.0	**0.37**	**1.30**	**0.02**
MALONEY ROAD	1320.1	0.0		301.4	0.0	156.3	**3.34**	**11.85**	**0.20**
		121.0			0.0				
	0.0	0.0	941.6	0.0	31.2	0.0	**0.53**	**1.87**	**0.03**
MALONEY ROAD	904.5	0.0		206.5	0.0	107.1	**2.29**	**8.12**	**0.14**
		76.5			0.0				
	0.0	0.0	1039.5	0.0	34.4	0.0	**0.58**	**2.06**	**0.04**
TOTALS	**3779.6**	**450.4**	**2711.6**	**862.8**	**87.4**	**447.4**	**11.04**	**39.17**	**0.68**
	6941.6								

PAVEMENT QUANTITIES COLLECTOR NO. 3 & 6, RAMPS A & B, MONTLAKE DRIVE, ROUNDABOUTS

LOCATION	303M01 0.200M (tonne)	303M01 0.3205M (tonne)	307M01.08 .051M (tonne)	307m01.01 .075M (tonne)	411M01.07 .0375M (tonne)	411M01.10 .0315M (tonne)	501M01.02 (m^2)	402M01 (tonne)	402M02 (tonne)	403M01 (tonne)
COLLECTOR NO. 3	80.0		20.4	30.6		11.8		**0.25**	**0.90**	0.02
		104.4			6.4					
COLLECTOR NO. 3	2359.3		602.4	901.6		349.1		**7.46**	**26.48**	0.46
	0.0	3352.0	0.0	0.0	207.0	0.0		**0.00**	**0.00**	0.00
COLLECTOR NO. 6	1244.5	0.0	317.7	475.6	0.0	184.1		**3.94**	**13.97**	0.24
	0.0	1748.3	0.0	0.0	154.8	0.0		**0.00**	**0.00**	0.00
RAMP A	496.0	0.0	126.6	189.5	0.0	73.4		**1.57**	**5.57**	0.10
	0.0	783.4	0.0	0.0	68.8	0.0		**0.00**	**0.00**	0.00
RAMP B	506.2	0.0	129.3	193.5	0.0	74.9		**1.60**	**5.68**	0.10
	0.0	867.7	0.0	0.0	72.0	0.0		**0.00**	**0.00**	0.00
MONTLAKE DRIVE	531.9	0.0	135.8	203.3	0.0	78.7		**1.68**	**5.97**	0.10
	0.0	638.8	0.0	0.0	41.7	0.0		**0.00**	**0.00**	0.00
ROUNDABOUT NO. 1	436.2	0.0	111.4	166.7	0.0	64.5		**1.38**	**4.90**	0.08
	0.0	0.8	0.0	0.0	0.1	0.0		**0.00**	**0.00**	0.00
ROUNDABOUT NO. 2	436.2	0.0	111.4	166.7	0.0	64.5		**1.38**	**4.90**	0.08
	0.0	0.8	0.0	0.0	0.1	0.0		**0.00**	**0.00**	0.00
ROUNDABOUT NO. 3	436.2	0.0	111.4	166.7	0.0	64.5		**1.38**	**4.90**	0.08
	0.0	15.8	0.0	0.0	1.7	0.0		**0.00**	**0.00**	0.00
TOTALS	**6526.6**	**7511.9**	**1666.3**	**2494.2**	**552.6**	**965.7**	**0.0**	**20.65**	**73.25**	1.26
	14038.4									

PAVEMENT QUANTITIES INTERSECTING ROADS

LOCATION	303M01 .250M (tonne)	303M01 .2955M (tonne)	307M01.08 .051M (tonne)	411M01.07 .0375M (tonne)	411M01.10 .0315M (tonne)	402M01 (tonne)	402M02 (tonne)	403M01 (tonne)
DRESSER ROAD	1143.5		233.6		135.4	**2.89**	**10.27**	0.18
	162.3							
		166.0		10.9				
DRESSER ROAD	826.7		168.9		97.9	**2.09**	**7.42**	0.13
	195.6							
		0.0		0.0				
SOUTH CIRCLE	635.0		129.7		75.2	**1.61**	**5.70**	0.10
	41.1							
		284.6						
GINN ROAD LT	737.5		150.6		87.3	**1.87**	**6.62**	0.11
	176.3							
		108.2		7.8				
GINN ROAD RT	488.4		99.8		57.8	**1.24**	**4.39**	0.08
	120.6							
		26.1		1.9				
COLLECTOR NO. 5	3871.4		790.8		458.2	**9.80**	**34.76**	0.60
	978.7							
		445.8		34.3				
COLLECTOR NO. 5	222.0		45.3		26.3	**0.56**	**1.99**	0.03
	18.3							
		44.7		5.2				
COLLECTOR NO. 2	504.7		103.1		59.7	**1.28**	**4.53**	0.08
	89.4							
		8.7		1.0				
MT. VERNON ROAD	373.1		76.2		44.2	**0.94**	**3.35**	0.06
	12.5							
		236.9		18.0				
BUNKER HILL ROAD	227.0		46.4		26.9	**0.57**	**2.04**	0.04
		130.9		10.2				
BARBER HILL ROAD	358.6		73.2		42.4	**0.91**	**3.22**	0.06
	79.2							
		25.6		2.0				
MONTLAKE CIRCLE	744.8		152.1		88.2	**1.88**	**6.69**	0.12
		602.6		24.6				
GREENWAY	0.0	631.0		73.1		**0.00**	**0.00**	
	144.1	0.0		0.0				
		336.1		21.1				
GREENWAY ON RAMP B	0.0	474.5		55.0		**0.00**	**0.00**	
	49.6	0.0		0.0				
		334.8		26.9				
GREENWAY ON COLLECTOR NO. 6	0.0	861.7		99.8		**1.85**	**0.00**	
	188.5	0.0		0.0				
		431.6		35.7				
GREENWAY ON RAMP A	0.0	576.5		66.8		**0.00**	**0.00**	
		378.8		38.3				
		0.0		0.0				
GREENWAY ON SR-115	0.0	702.6		81.4		**0.00**	**0.00**	
		393.4		45.6				
TOTALS	**12388.8**	**7201.2**	**2069.6**	**659.5**	**1199.4**	**27.49**	**90.98**	1.57
	19590.0							

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N17

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

CONCRETE BARRIER WALLS

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	32" SINGLE SLOPE CONCRETE BARRIER WALL 711M05.70 (m)	51"SINGLE SLOPE CONCRETE BARRIER WALL 711M05.71 (m)	SINGLE SLOPE HALF CONCRETE BARRIER WALL 711M05.72 (m)	FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIER WALL 711M05.77 (m)	PERMANENT IMPACT ATTENUATOR NCHRP350 TL-3 705M08.13 (EACH)	REMARKS	
4A-12A	SR115	X	X	10+020	12+721.500		2417.2		285.2	1	CENTER LINE	
5A-9A	SR115	X		10+339	11+590	1250.8						
5A-7A	SR115		X	10+350	10+951	602.5				1		
7A-8A	SR115		X	11+040	11+330		290.1					
11A-12A	SR115		X	12+340	12+598		257.2					
8A-9A	GREENWAY WALL	X		6+743	6+840			111.5				
9A	RAMP B		X	6+500.872	6+721.853			221.1				
9A	COL-6	X		6+000	6+024.068							
9A-11A	COL-6/MONTLAKE	X	X	6+030.368	8+135.858			372.2				
16A	MONTLAKE		X	8+128.183	8+133			4.9			8+128.183	1
16A	MONTLAKE	X		8+127.153	8+131.887			4.9			8+127.153	1
11A-12A,16A	MONTLAKE/RAMP A	X	X	8+134.773	122+360			257.8	10.0			
11A-12A	SR115	X		12+360.000	12+500.1			138.5			12+500.0	1
12A	GREENWAY WALL	X		12+550	120+660.4			110.6			12+200.4	1
TOTALS						**1853.3**	**2964.5**	**1221.5**	**295.2**	**2**		

1. SEE GUARDRAIL TABLE SHEET 2N19

RETAINING WALLS

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	RETAINING WALL 604M07.01 (m2)	RETAINING WALL 604M07.02 (m2)	GRAVITY WALL 604M01.01 (m3)	GRAVITY WALL 604M01.01 (m3)	RETAINING WALL 604M07.05 (m2)	GRAVITY WALL 604M01.01 (m3)	ANCHORED WALL (m2)	ANCHORED WALL (m2)	RETAINING WALL 604M07.09 (m2)	WALL NO.	RETAINING WALL DETAIL
5	MALONEY ROAD	X		1+430.000	1+388.709	72.9									1	SHEET 2P1
5A-6A	SR115	X		10+528.425	10+610		87.0								2	SHEET 2P2
6A	SR115	X		10+626	10+646			19.92							3	SHEET 2P3
6A	SR115	X		10+662	10+680				17.93						4	SHEET 2P3
7A-9A	SR115		X	11+330	11+520					192.5					5	SHEET 2P4
8A	SR115	X		11+315	11+360						18.27				6	SHEET 2P5
7A-9A	RAMP B COLLECTOR #6	X		5+979.224	6+275										7	SHEET 2P6 - 2P7
7A-9A	SR115 RAMP B AND COLLECTOR #6	X		5+703.000	6+275										8	SHEET 2P8 - 2P10
8A-9A	COLLECTOR #6	X		6+320	6+347.693									107.7	9	SHEET 2P11
TOTALS						**72.9**	**87.0**	**19.92**	**17.93**	**192.5**	**18.27**			**107.7**		

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N18

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

MANHOLES

SHEET NO.	LOCATION	STATION	OFFSET (m)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS m^2	DEPTH (m)	STANDARD DRAWING	PAY ITEMS TYPE 3 611M01-01 0m-1m	TYPE 3 611M01-02 1m-2m	TYPE 3 611M01-03 2m-3m	TYPE 3 611M01-04 3m-5m	TYPE 3 611M01-05 5m-6m	TYPE 3 611M01-06 6m-7m	TYPE 3 611M01.10 8m-9m	TYPE 3 611M01.11 11m-12m
11A	SR115	12+244.794	30.297L	178	263.229	MH-3	2.743	11.887	D-MH-7								1
11A	SR115	12+279.435	21.276R	180	258.174	MH-3	2.743	8.181	D-MH-7							1	
12A	SR115	12+404.221	33.840R	185	258.193	MH-3	2.743	8.812	D-MH-7							1	
12A	SR115	12+520	40.738R	186	255.461	MH-3	2.743	6.658	D-MH-7						1		
12A	SR115	12+590.983	44.963R	187	252.960	MH-3	2.743	4.514	D-MH-7				1				
TOTALS										0	0	0	1	0	1	2	1

SPRING DRAINS

STATION	LOCATION	DRAINAGE CODE	450 mm RCP CL. III	450 mm RCP CL. IV	450 mm RCP CL. V	TYPE	DEPTH	SPRING DRAIN 611M02.01 EACH	DRAWING NO.	REMARKS
5+229.5	COLLECTOR #5	231	4.4			1	1.074	1	D-SDS-1	
5+260	COLLECTOR #5	229		12.6		1	1.074	1	D-SDS-1	
5+259	COLLECTOR #5	224			6.0	1	1.074	1	D-SDS-1	
6+376	COLLECTOR #6	191			32.1	1	1.654	1	D-SDS-1	
6+357	COLLECTOR #6	193			5.3	1	1.654	1	D-SDS-1	
1+201	MALONEY	217			35.7	1	1.074	1	D-SDS-1	
TOTALS			4.4	12.6	79.1			6		

BRIDGE DRAINS

STATION	LOCATION	SIDE LT	SIDE RT	SPILLWAY WIDTH	RUBBLE-STONE RIP-RAP 709M01.02 TONNE	450 mm PIPE DRAIN (BRIDGE DRAIN) 610M07.03 m	CLASS A CONC. 611M07.01 (m^3)	REINF. STEEL 611M07.02 (kg)	STRUC. STEEL 611M07.03 (kg)	REMARKS
1+223.600	MALONEY RD.		X	1.8	4.16	20				STD-1-7
1+309.549	MALONEY RD.	X		1.8	4.16	20				STD-1-7
1+315.816	MALONEY RD.		X	1.8	4.16	18				STD-1-7
5+371.599	COLLECTOR #5	X		1.8	4.16	21				STD-1-7
112+105.509	COLLECTOR #3	X		1.8	4.16	19				STD-1-7
TOTALS					20.8	98	0	0	0	

EXISTING DRAINAGE TO BE PLUGGED AND ABANDONED IN PLACE

SHEET NO.	LOCATION	STATION	PIPE SIZE	LENGTH	GROUT 604M15.0 (m^3)	REPLACE C.B NO. 57 STONE 303M10.01	REMARKS
4B	SR-115	10+130	450	42	6.892		
5A	SR-115	10+309	450	20	3.282	12	
5A	SR-115	10+394	450	74	12.143		
5A	SR-115	10+444	600	50	14.585	12	
5A	SR-115	10+538	600	42	12.257	12	
5A	SR-115	10+548 - 10+576	450	28	4.595		
5A	SR-115	10+590	450	42	6.892		
6A	SR-115	10+603 - 10+700	450	97	15.917	12	
6A	SR-115	10+990	450	32	5.251	12	
7A	SR-115	11+066	450	26	4.266	12	
7A	SR-115	11+140	450	32	5.251	12	
10A	SR-115	11+810	600	30	8.751		
10A	SR-115	12+014	750	40	18.232		
11A	SR-115	21+176	450	17	2.789	12	
TOTALS					121.103	96	

NOTE CATCH BASINS ARE TO BE REMOVED AND VOID BACKFILLED WITH NO. 57 MINERAL AGGREGATE TO SUBGRADE ITEM NO.(303M10.01)

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N19

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROPOSED GUARDRAIL

SHEET NO.	STATION FROM	LOCATION	SIDE LT	SIDE RT	STATION TO	LOCATION	SIDE LT	SIDE RT	GUARDRAIL: BRIDGE ENDS 705M01.01 (m)	SINGLE TYPE 2 705M02.02 (m)	TYPE 13 705M04.03 (EACH)	TYPE 21 705M04.04 (EACH)	TYPE IN-LINE 705M04.05 (EACH)	TYPE 38 705M04.07 (EACH)	REMARKS
5A	2+242.6	DRESSER ROAD		X	1+317.978	MALONEY ROAD		X	8.198	57.150		1	2		
5A	1+310.334	MALONEY ROAD	X		2+141.9	DRESSER ROAD		X	8.198	57.150				1	
5A	1+431.1	MALONEY ROAD	X		2+145.8	DRESSER ROAD	X			64.770		1	1	1	
13A	1+565.6	COLLECTOR NO.1		X	1+218.344	MALONEY RD BRIDGE	X		8.198	102.870		1	1		
13A	0+083.1	DRIVEWAY	X		1+222.737	MALONEY RD BRIDGE		X	8.198	140.970		1			
13A	1+033.0	MALONEY ROAD		X	0+075.9	DRIVEWAY		X		102.870		1		1	
9A	5+212.4	COLLECTOR NO. 5		X	9+028.2	MOUNT VERNON RD.		X		30.480		1		1	
9A	9+029.1	MOUNT VERNON RD	X		5+299.053	COLLECTOR NO. 5 BRIDGE		X	8.198	53.340		1			
9A	5+190.9	COLLECTOR NO. 5	X		5+289.987	COLLECTOR NO. 5 BRIDGE	X		8.198	64.770				1	
9A	6+024.680	COLLECTOR NO. 6	X		6+500.872	RAMP B		X	8.198						
9A	6+562.2	RAMP B	X		5+373.206	COLLECTOR NO. 5 BRIDGE	X		8.198	57.150	1				
9A	5+379.220	COLLECTOR NO. 5 BRIDGE		X	112+024.552	COLLECTOR NO. 3 BRIDGE		X	16.396	381.000			1		
9A	5+973.3	COLLECTOR NO. 3		X	6+500	RAMP B		X	8.198					1	
9A	11+330	SR 115		X	11+698.1	SR 115		X	8.198	358.140	1				
9A	11+590	SR 115	X		11+613.4	SR 115	X		8.198					1	
11A	112+024.552	COLLECTOR NO. 3 BRIDGE	X		122+454	RAMP A		X	8.198	106.680			2	1	
11A	112+104.306	COLLECTOR NO. 3 BRIDGE		X	112+130.4	COLLECTOR NO. 3		X	8.198	15.240		1			
11A	112+106.515	COLLECTOR NO. 3 BRIDGE	X		112+359.6	COLLECTOR NO. 3	X		8.198	236.220		1			
11A	112+280	COLLECTOR NO. 3		X	112+644.4	COLLECTOR NO. 3		X		331.470		1		1	
12A	12+500.1	SR 115	X		12+523	SR 115	X		8.198					1	
12A	12+660.4	SR 115	X		12+685	SR 115	X		8.198					1	
16A	8+059.730	MONTLAKE		X	8+128.183	MONTLAKE		X	8.198	49.530		1			
16A	8+127.153	MONTLAKE	X		9+587.769	MONTLAKE COURT		X	8.198	80.010		1	2		
TOTALS									**163.96**	**2289.810**	**2**	**12**	**9**	**11**	

GUARDRAIL LENGTHS ARE APPROXIMATE AND MAY BE ADJUSTED BY ENGINEER PRIOR TO ERECTION.

R.O.W. MARKERS

SHEET NO.	QUANTITIES ITEM 708M02.01 "A"	"B"	"C"	TOTALS
4A	5			**5**
5	5		8	**13**
6	7	1	8	**16**
7	5	1		**6**
8		3	9	**12**
9	5	3	8	**16**
10	1	3	5	**9**
11	4	3	7	**14**
12	3	3	4	**10**
13	3	2	4	**9**
14		1		**1**
15		1	2	**3**
16			2	**2**
TOTALS	**38**	**21**	**57**	**116**

UNDERDRAIN SCHEDULE

LOCATION	STATION FROM	STATION TO	PAY ITEM: AGGREGATE UNDERDRAIN (WITH PIPE) 710M02 (m)	LATTERAL UNDERDRAIN 710M05 (m)	LATTERAL UNDERDRAIN ENDWALL 710M06.15 EACH
SR 115			2975	300	10
DRESSER RD			495	50	3
MALONEY			120	12	1
COLLECTOR NO. 1			180	18	1
SOUTH CIRCLE			40	10	2
GINN RD. LEFT			170	17	2
GINN RD. RIGHT			90	10	2
COLLECTOR NO. 5			805	80	2
COLLECTOR NO. 2			80	10	2
RAMP B			70	10	1
BARBER HILL RD			64	10	2
GREENWAY			350	35	1
			5439	**562**	**29**

FENCING

SHEET NO	ROAD	STATION FROM	STATION TO	LOCATION LT	LOCATION RT	707M01.11 1.8M CHAIN LINK FENCE M	707M01.12 1.8M CHAIN LINK FENCE END & CORNER POSTS EACH
4A,5,13	SR 115	10+145.744	1+113.725	X		317	8
4A,5	SR 115	10+000.00	2+261.316		X	430	7
5	SR 115	10+421.946	10+492.889	X		80	5
5	DRESSER	2+143.000	10+530.000		X	165	6
6	SR 115	10+642.000	2+864.580		X	128	3
6	SR 115	10+723.000	10+762.610	X		48	3
6,5	SR 115	10+569.970	3+045		X	62	3
6	GINN ROAD	2+851.759	10+882.245		X	138	4
8,15,10,11,16	GREENWAY	6+894.997	8+035.849	X		1017	14
9	COLLECTOR NO.5	5+160.000	9+066.426		X	128	3
9,10,11	COLLECTOR NO.6	9+358.000	12+190.000		X	629	13
11	BARBER HILL RD	7+546.633	112+644.000		X	434	11
11,12	SR 115	12+263.000	12+518.443	X		279	6
13	COLLECTOR NO.1	1+046.120	10+610.000	X		372	12
13,5	MALONEY ROAD	1+099.066	1+000.000		X	118	6
TOTALS:						**4345**	**104**

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2N20

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

CONCRETE SIDEWALKS, HANDICAP RAMPS AND ISLANDS

SHEET NO.	LOCATION	SIDE		STATION		SIDEWALK (100mm) 701M01.01 (m2)	DRIVEWAY (150mm) 701M02 (m2)	ISLAND (100mm) 701M03 (m2)	CONC. CURB RAMP 705M02.03 (m2)	MIN. AGG. BASE 303M01 (tonne)	REMARKS
		LT	RT	FROM	TO						
5A-13A	MALONEY		X	1+110	1+228	170.9				41.2	SIDEWALK
4B-5A	MALONEY/DRESSER		X	1+311	2+302	202.2				48.7	SIDEWALK
4B	DRESSER		X	2+302	2+312		14.4			3.5	DRIVEWAY
4B	DRESSER		X	2+312	2+368	85.2				20.5	SIDEWALK
9A	MT. VERNON / COLLECTOR NO.5		X	9+018	5+596	95.1				22.9	SIDEWALK
9A	COLLECTOR NO.5 / COLLECTOR NO.6		X	5+380	6+026	52.1				12.6	SIDEWALK
9A	COLLECTOR NO.6		X	6+026	6+031				8.2	2.0	HANDICAP RAMP
10A-11A	COLLECTOR NO.6 / COLLECTOR NO.3		X	6+340	112+022	96.7				23.3	SIDEWALK
11A	COLLECTOR NO.3		X			117.0				28.2	
5A	SR 115 & DRESSER ISLAND		X	10+486				128.9		31.1	ISLAND
5A	SR 115 & COLLECTOR NO. 1	X		10+510				271.8		65.5	ISLAND
13A	MALONEY ROUNDABOUT #1			1+075				73.0		17.6	ISLAND
13A	MALONEY ROUNDABOUT #1			1+115				10.2		2.5	ISLAND
13A	MALONEY ROUNDABOUT #1			1+125				97.7		23.5	ISLAND
13A	MALONEY ROUNDABOUT #1			1+144				136.7		32.9	ISLAND
5A	MALONEY ROUNDABOUT #2			1+348				12.9		3.1	ISLAND
5A	MALONEY ROUNDABOUT #2			1+353				43.7		10.5	ISLAND
5A	MALONEY ROUNDABOUT #2			1+364				62.8		15.1	ISLAND
5A	MALONEY ROUNDABOUT #2			1+373				6.1		1.5	ISLAND
5A	MALONEY ROUNDABOUT #2			1+397				11.0		2.7	ISLAND
7A	SR 115 & COLLECTOR NO.5		X	10+920				129.9		31.3	ISLAND
11A	ROUNDABOUT #3 @ MONTLAKE			8+144				10.4		2.5	ISLAND
11A	ROUNDABOUT #3 @ COLLECTOR NO. 6			6+373				5.1		1.2	ISLAND
11A	ROUNDABOUT #3 @ COLLECTOR NO. 3			112+007				52.7		12.7	ISLAND
11A	ROUNDABOUT #3 @ COLLECTOR NO. 3			112+018				26.8		6.5	ISLAND
TOTALS						**819.2**	**14.4**	**1079.7**	**8.2**	**463.1**	

1 ITEM 303M01 IS FOR REFERENCE ONLY AND WILL NOT BE PAID FO DIRECTLY BUT WILL BE INCLUDED IN COST FO THESE ITEMS.

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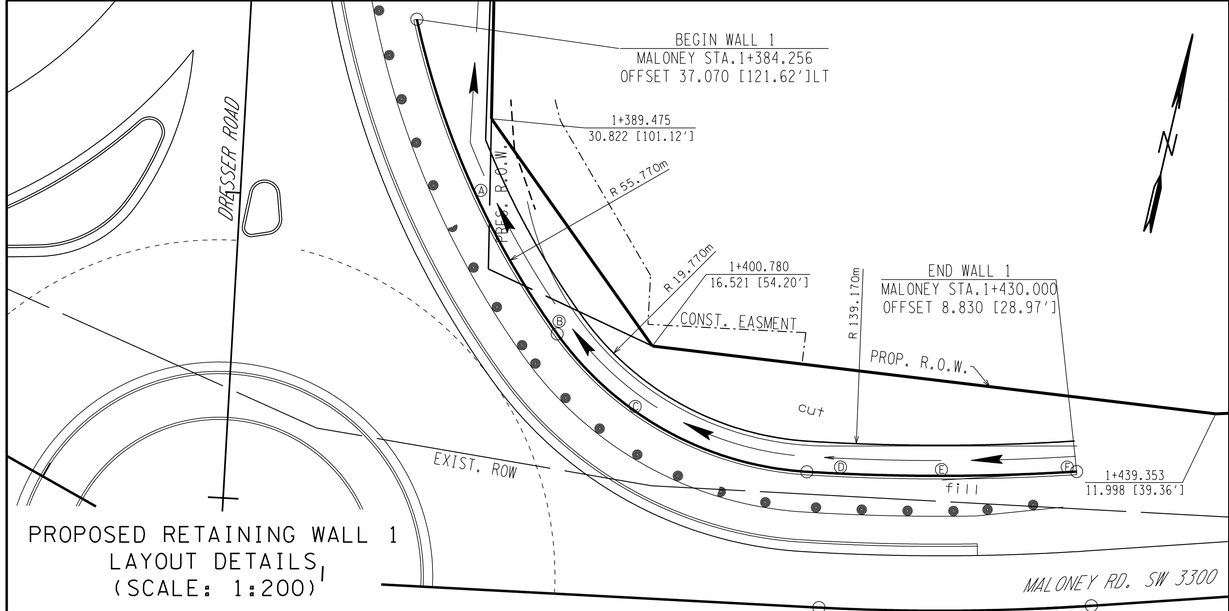
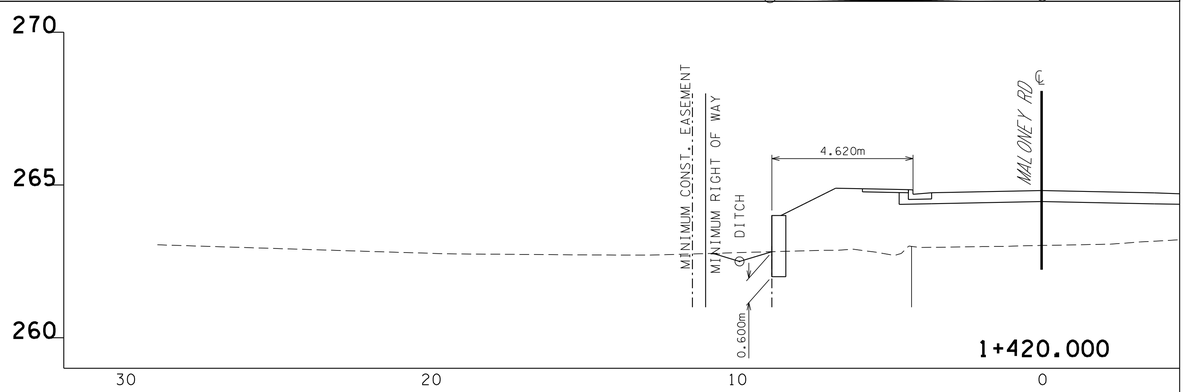
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P1



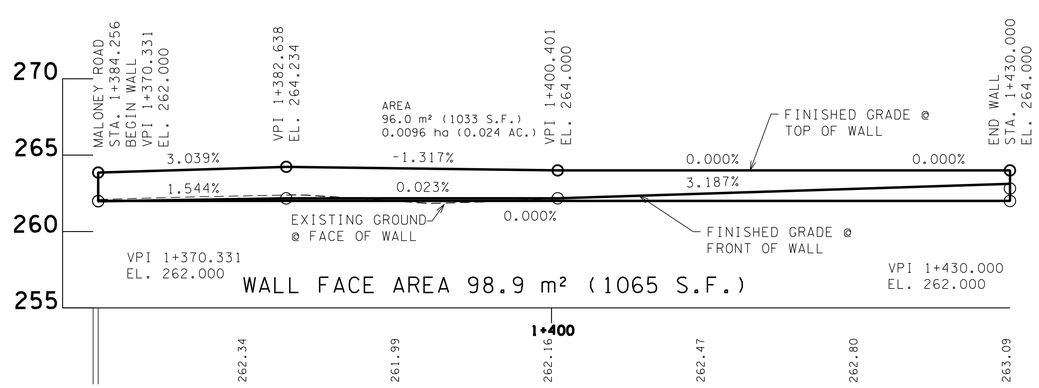
PROPOSED RETAINING WALL 1
LAYOUT DETAILS
(SCALE: 1:200)

POINT	CHAIN	STATION	OFFSET	NORTHING	EASTING	ELEVATION *	DISTANCE TO RIGHT OF WAY
A	MALONEY	1+388.809	25.262m LT.	176330.7353	784874.4820	262.385	
B	MALONEY	1+394.381	16.746m LT.	176323.3387	784881.5518	261.858	24.62m
C	MALONEY	1+400.000	11.809m LT.	176319.4567	784887.9453	262.175	17.51m
D	MALONEY	1+412.666	8.594m LT.	176318.4983	784900.9725	262.603	15.72m
E	MALONEY	1+420.000	8.784m LT.	176320.0602	784907.7045	262.818	15.12m
F	MALONEY	1+430.000	8.500m LT.	176322.1907	784916.8870	263.117	13.75m

* TO BE OBTAINED IN FIELD SURVEY



PROPOSED RETAINING WALL 1
EXAMPLE WALL SECTION
STA. 1+388.709 TO STA. 1+430.000 (SCALE: 1:100)



PROPOSED RETAINING WALL 1
PROFILE VIEW
(SCALE: 1:200)

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET RETAINING WALL NO.1

STA. 1+382.638
TO STA 1+430.000
SCALE: AS NOTED

9/30/2015
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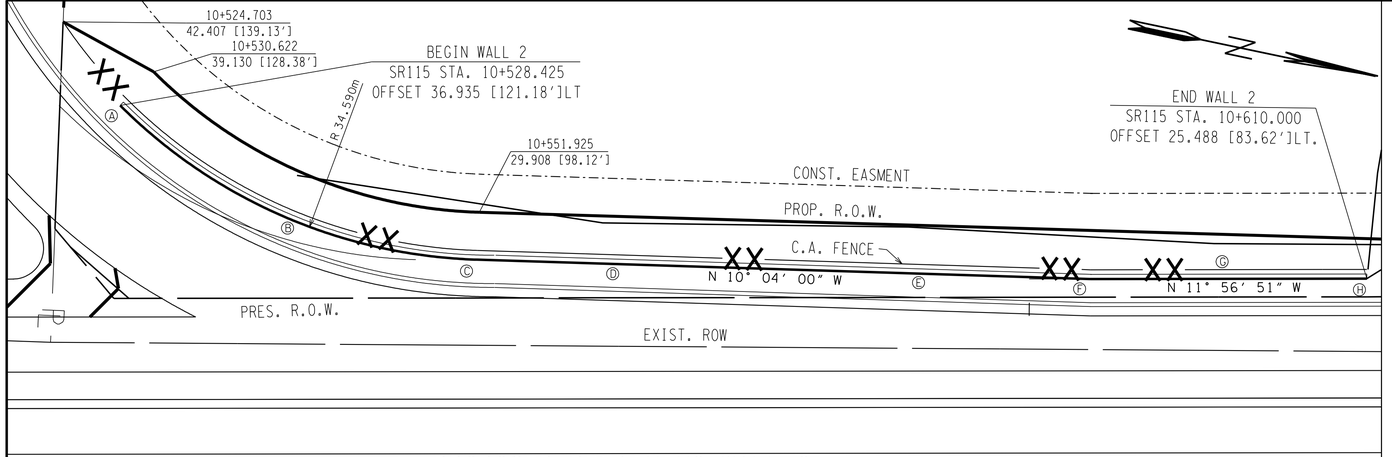
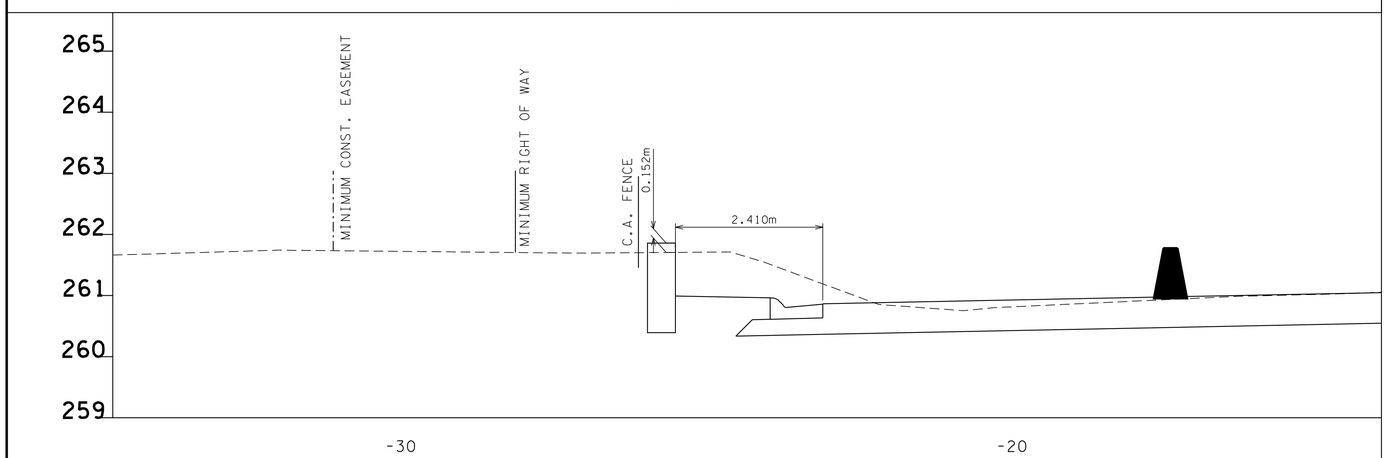


PROPOSED RETAINING WALL 2
LAYOUT DETAILS
(SCALE: 1:200)

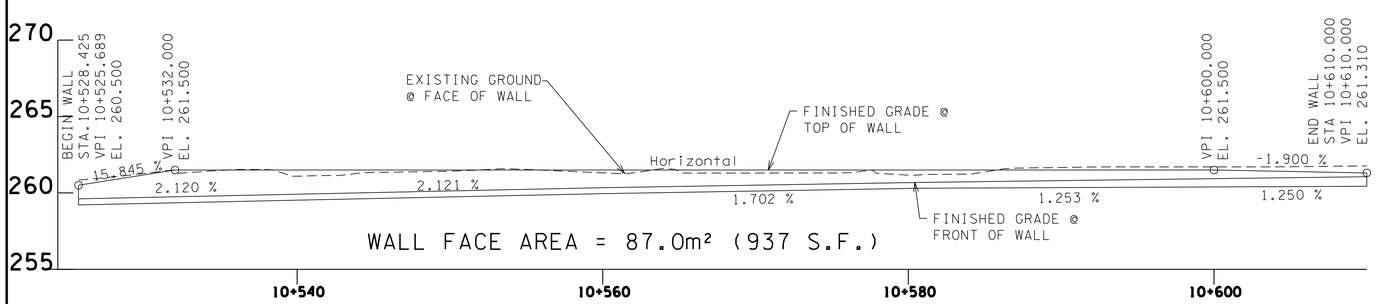
POINT	CHAIN	STATION	OFFSET	NORTHING	EASTING	ELEVATION *	DISTANCE TO RIGHT OF WAY
A	SR115	10+528.425	36.935m LT.	176539.8179	784696.7029	260.84	40.436m
B	SR115	10+540.000	29.283m LT.	176470.5487	784707.4816	261.11	32.657m
C	SR115	10+551.764	26.807m LT.	176482.5707	784707.4692	261.50	29.913m
D	SR115	10+560.00	26.536m LT.	176490.6841	784706.0289	261.32	29.658m
E	SR115	10+580.000	25.879m LT.	176510.3869	784702.5311	261.17	29.039m
F	SR115	10+591.900	25.488m LT.	176522.1100	784700.4499	261.70	28.670m
G	SR115	10+600.000	25.488m LT.	176530.0345	784698.7731	261.71	28.419m
H	SR115	10+610.000	25.488m LT.	176539.8179	784696.7029	261.77	28.110m

* TO BE OBTAINED IN FIELD SURVEY

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P2



PROPOSED RETAINING WALL 2
EXAMPLE WALL SECTION
STA. 10+528.425 STA. 10+610.000 (SCALE: 1:50)



PROPOSED RETAINING WALL 2
PROFILE VIEW
(SCALE: 1:200)

SEALED BY

TENNESSEE METRIC

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET RETAINING WALL NO.2

STA. 10+585.689
TO STA 10+610.000
SCALE: AS NOTED

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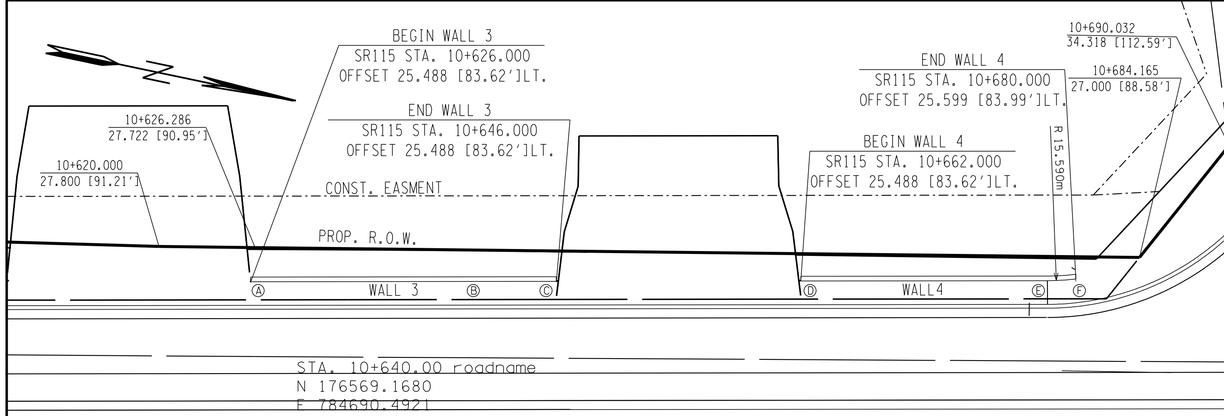
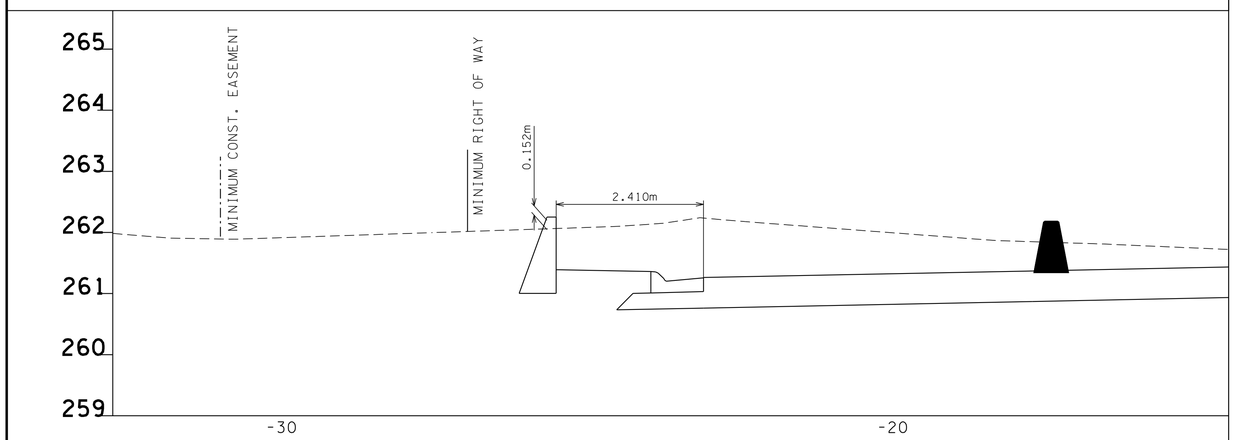
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P3



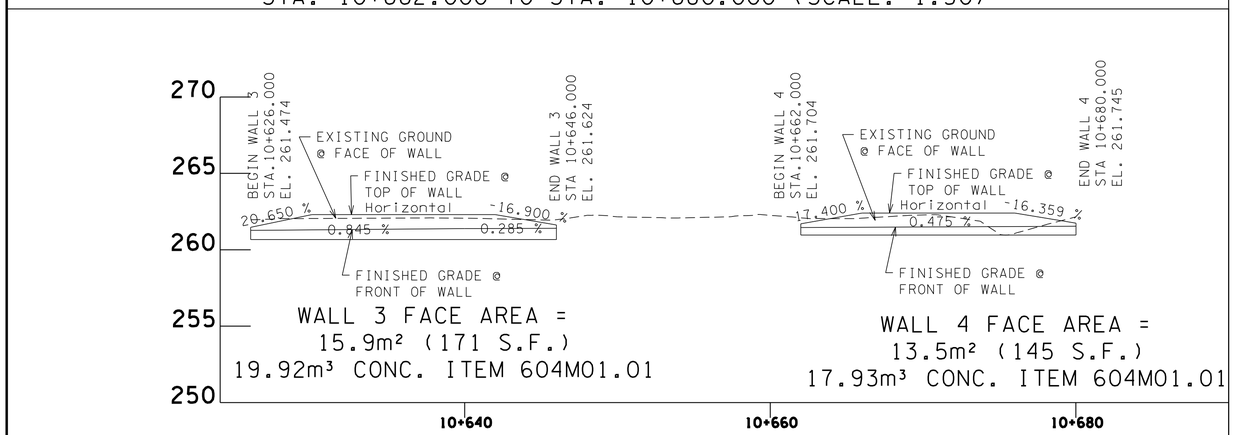
PROPOSED RETAINING WALL 3&4
LAYOUT DETAILS
(SCALE: 1:200)

POINT	CHAIN	STATION	OFFSET	NORTHING	EASTING	ELEVATION *	DISTANCE TO RIGHT OF WAY
A	SR115	10+626.000	25.488m LT.	176555.4713	784693.3905	261.96	27.725m
B	SR115	10+640.000	25.488m LT.	176569.1680	784690.4921	262.07	27.551m
C	SR115	10+646.000	25.488m LT.	176575.0380	784689.2499	261.98	27.746m
D	SR115	10+662.000	25.488m LT.	176590.6913	784685.9375	262.10	27.276m
E	SR115	10+678.141	25.488m LT.	176606.4825	784685.9375	261.68	27.075m
F	SR115	10+680.000	25.559m LT.	176608.2784	784682.1022	262.16	27.052m

* TO BE OBTAINED IN FIELD SURVEY



PROPOSED RETAINING WALL 3&4
EXAMPLE WALL SECTION
STA. 10+626.000 TO STA. 10+646.000
STA. 10+662.000 TO STA. 10+680.000 (SCALE: 1:50)



PROPOSED RETAINING WALL 3&4
PROFILE VIEW
(SCALE: 1:200)

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET RETAINING WALL NO. 3&4

STA.10+626 TO STA.10+646
STA.10+662 TO STA.10+680

SCALE: AS NOTED

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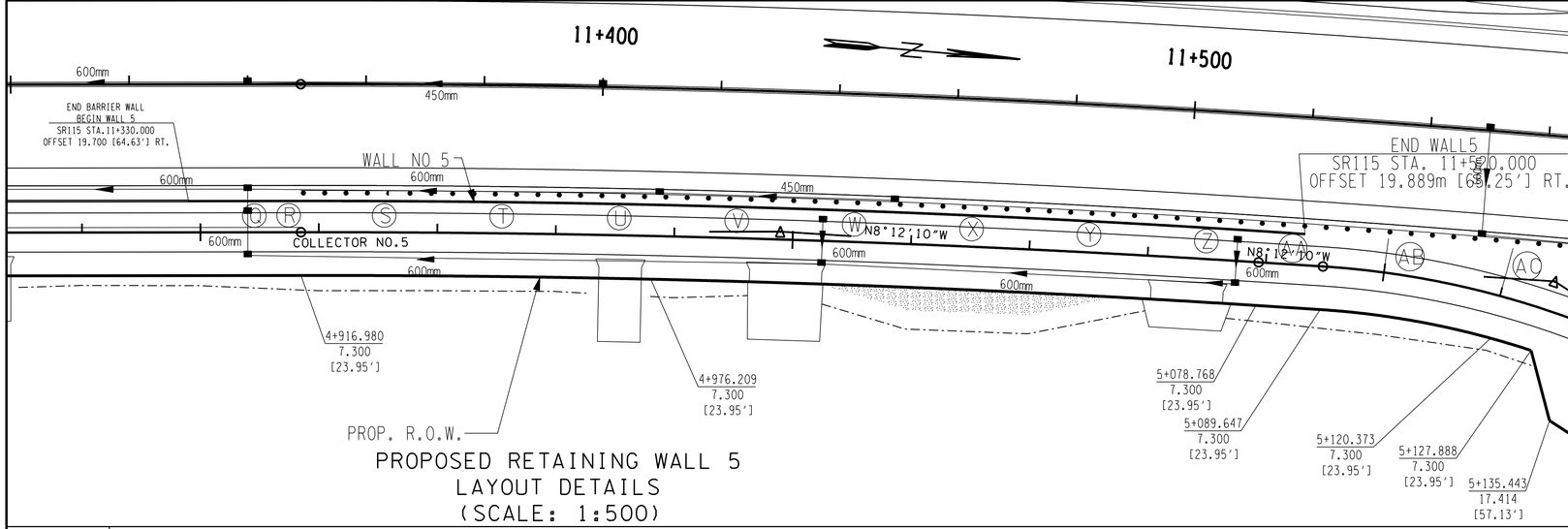
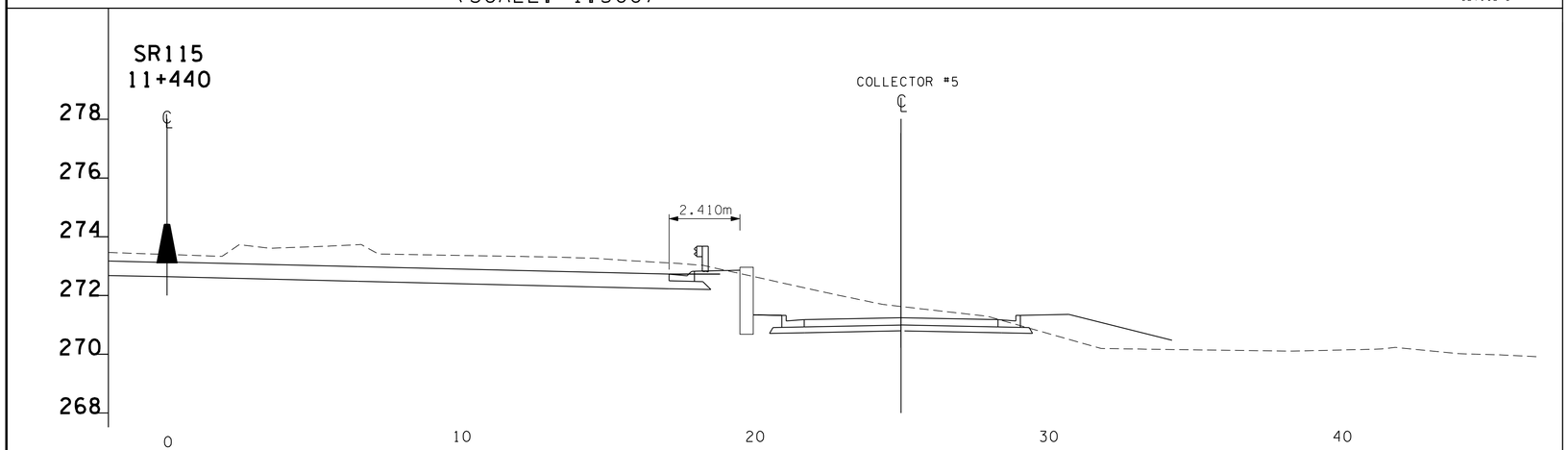
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P4



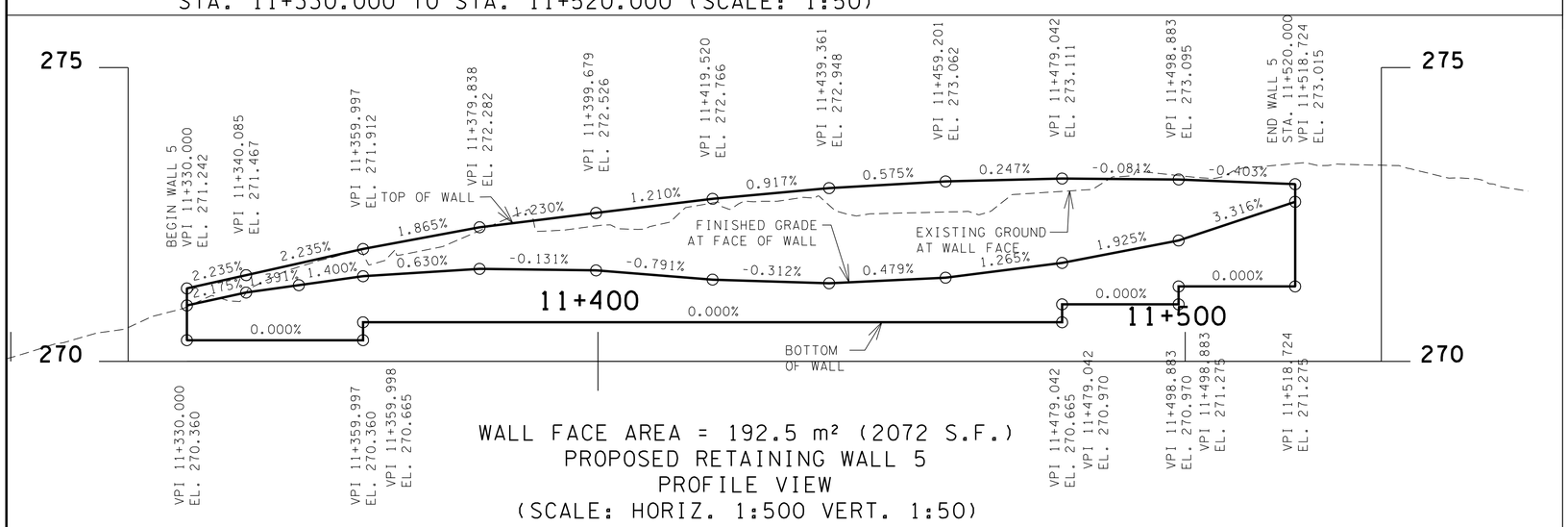
PROPOSED RETAINING WALL 5
LAYOUT DETAILS
(SCALE: 1:500)

POINT	CHAIN	STATION	OFFSET	NORTHING	EASTING	ELEVATION *	DISTANCE TO RIGHT OF WAY
P	SR115	11+320.000	19.889m RT.	177243.8302	784594.1078	270.58	32.300m
Q	SR115	11+340.000	19.889m RT.	177263.3969	784589.9673	271.17	32.300m
R	SR115	11+348.986	19.889m RT	177272.1883	784588.1069	271.61	32.300m
S	SR115	11+360.000	19.889m RT.	177282.8828	784585.8685	271.83	32.300m
T	SR115	11+380.000	19.889m RT.	177302.3277	784581.9242	272.23	32.300m
U	SR115	11+400.000	19.889m RT.	177321.8034	784578.1356	272.31	32.300m
V	SR115	11+420.000	19.889m RT.	177341.3089	784574.5029	272.70	32.300m
W	SR115	11+440.000	19.889m RT.	177360.8428	784571.0264	272.66	32.300m
X	SR115	11+460.000	19.889m RT.	177380.4038	784567.7063	272.55	32.300m
Y	SR115	11+480.000	19.889m RT.	177399.9908	784564.5427	272.90	32.300m
Z	SR115	11+500.000	19.889m RT.	177419.6025	784561.5360	273.16	32.300m
AA	SR115	11+520.000	19.889m RT.	177439.2376	784558.6862	273.37	32.289m

* TO BE OBTAINED IN FIELD SURVEY



PROPOSED RETAINING WALL 5
EXAMPLE WALL SECTION
STA. 11+330.000 TO STA. 11+520.000 (SCALE: 1:50)



WALL FACE AREA = 192.5 m² (2072 S.F.)
PROPOSED RETAINING WALL 5
PROFILE VIEW
(SCALE: HORIZ. 1:500 VERT. 1:50)

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TENNESSEE METRIC D.O.T.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET RETAINING WALL NO.5

STA. 11+330.000
TO STA 11+520.000
SCALE: AS NOTED

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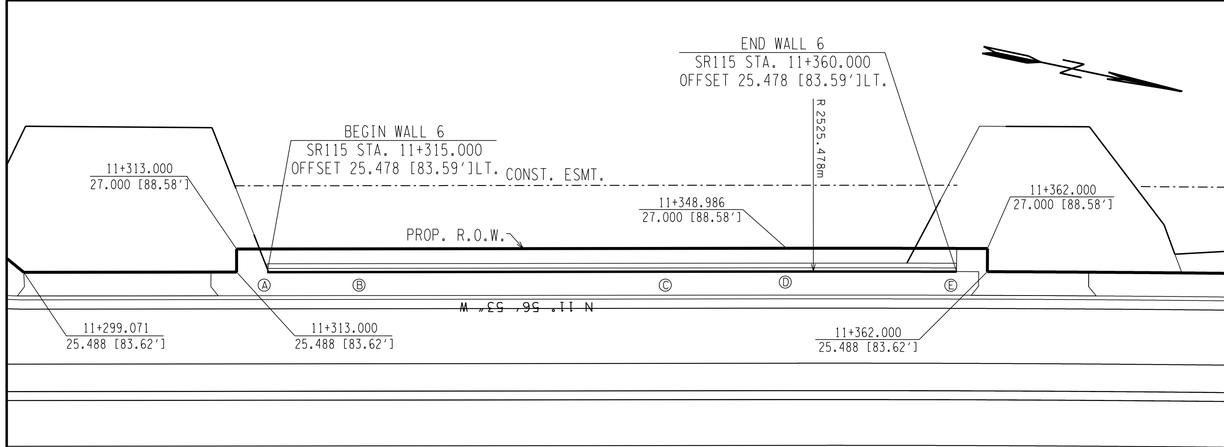
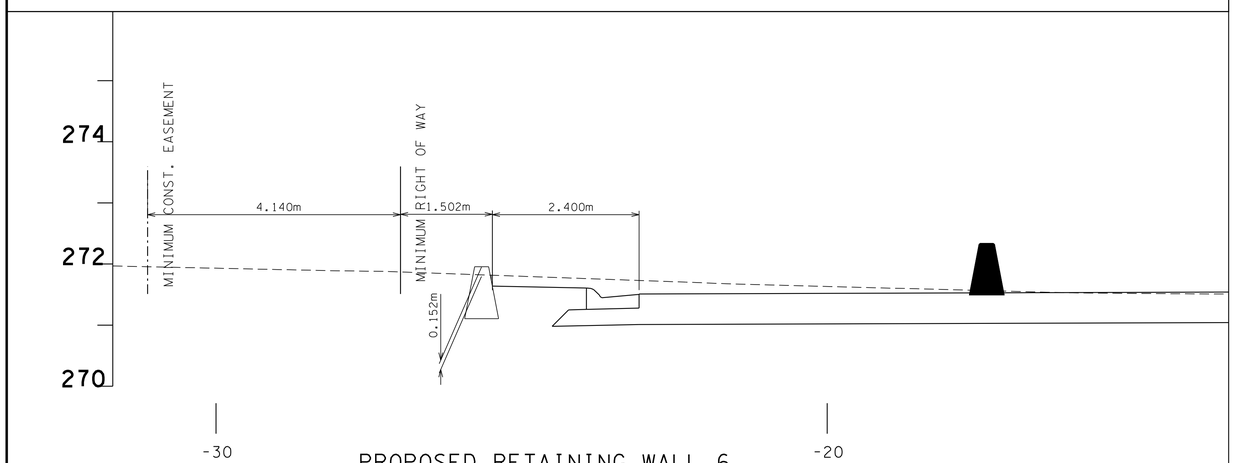
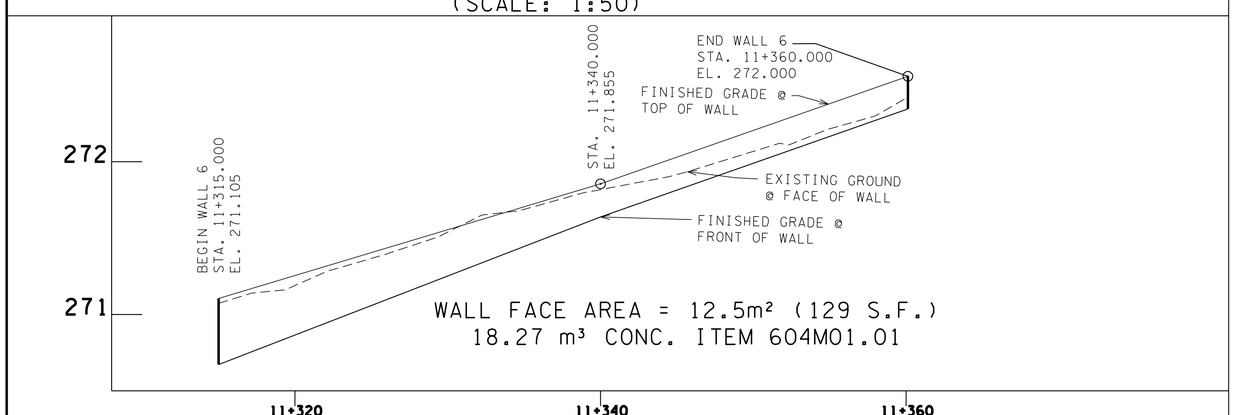
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P5



PROPOSED RETAINING WALL 6
LAYOUT DETAILS
(SCALE: 1:200)



PROPOSED RETAINING WALL 6
EXAMPLE CUT SECTION
SR115 STA. 11+315.000 TO 11+360.000
(SCALE: 1:50)



PROPOSED RETAINING WALL 6
PROFILE VIEW
(SCALE: HORIZ. 1:200 VERT. 1:20)

POINT	CHAIN	STATION	OFFSET	NORTHING	EASTING	ELEVATION *	DISTANCE TO RIGHT OF WAY
A	SR115	11+315.000	25.478m LT.	177229.5463	784550.7588	271.07	27.000m
B	SR115	11+320.000	25.478m LT.	177234.4380	784549.7237	271.19	27.000m
C	SR115	11+340.000	25.478m LT.	177254.0047	784545.5832	271.82	27.000m
D	SR115	11+348.986	25.478m LT.	177262.7961	784543.7228	272.04	27.000m
E	SR115	11+360.000	25.478m LT.	177273.6863	784541.4434	272.42	27.000m

* TO BE OBTAINED IN FIELD SURVEY

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TENNESSEE METRIC D.O.T.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET RETAINING WALL NO.6

STA. 11+315.000
TO STA 11+360.000
SCALE: AS NOTED

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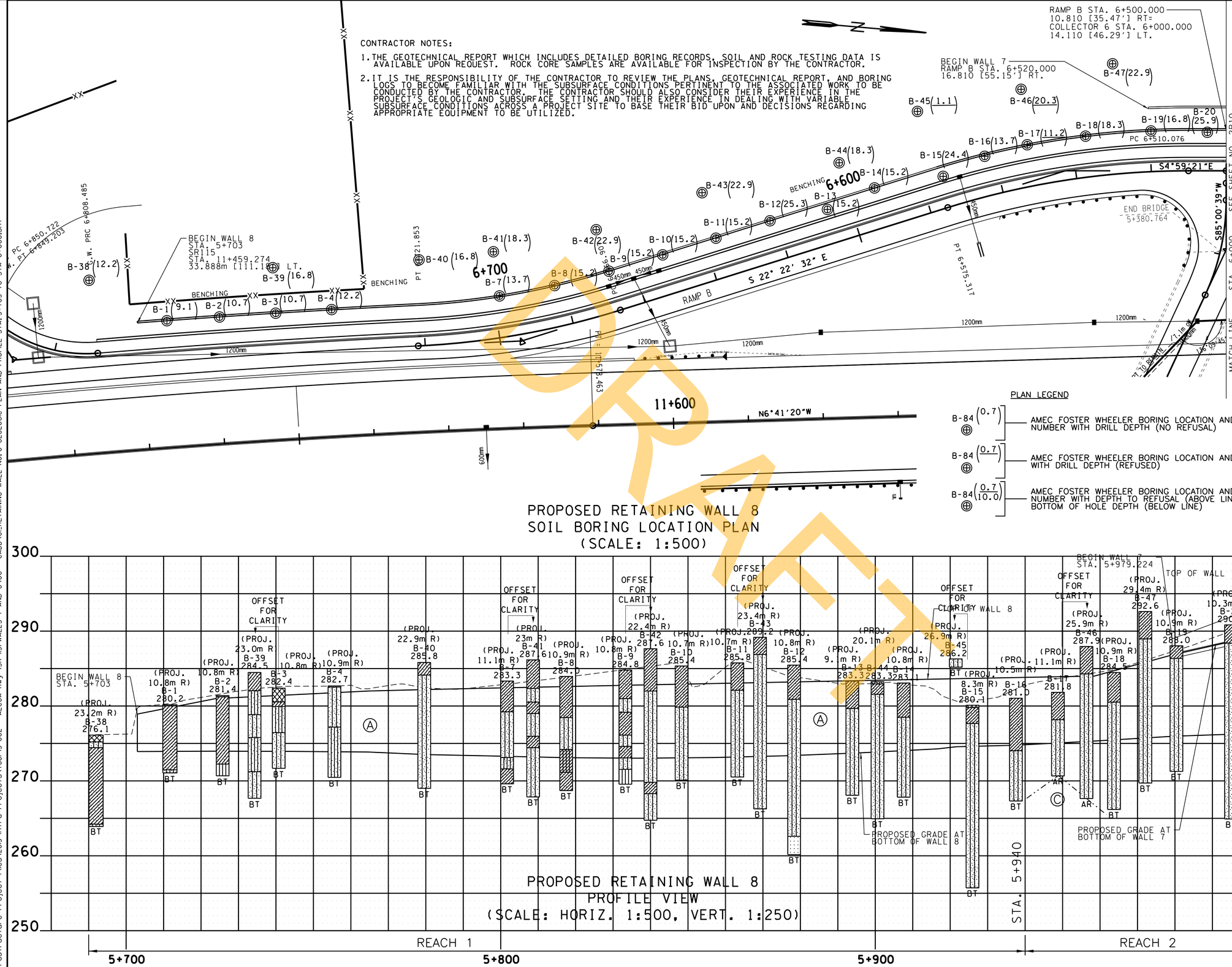
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P8
			2P6

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.



PROPOSED RETAINING WALL 8
SOIL BORING LOCATION PLAN
(SCALE: 1:500)

PLAN LEGEND

- B-84 (0.7) — AMEC FOSTER WHEELER BORING LOCATION AND NUMBER WITH DRILL DEPTH (NO REFUSAL)
- B-84 (0.7) — AMEC FOSTER WHEELER BORING LOCATION AND NUMBER WITH DRILL DEPTH (REFUSED)
- B-84 (0.7/10.0) — AMEC FOSTER WHEELER BORING LOCATION AND NUMBER WITH DEPTH TO REFUSAL (ABOVE LINE) AND BOTTOM OF HOLE DEPTH (BELOW LINE)

MATERIAL DESCRIPTION PATTERNS

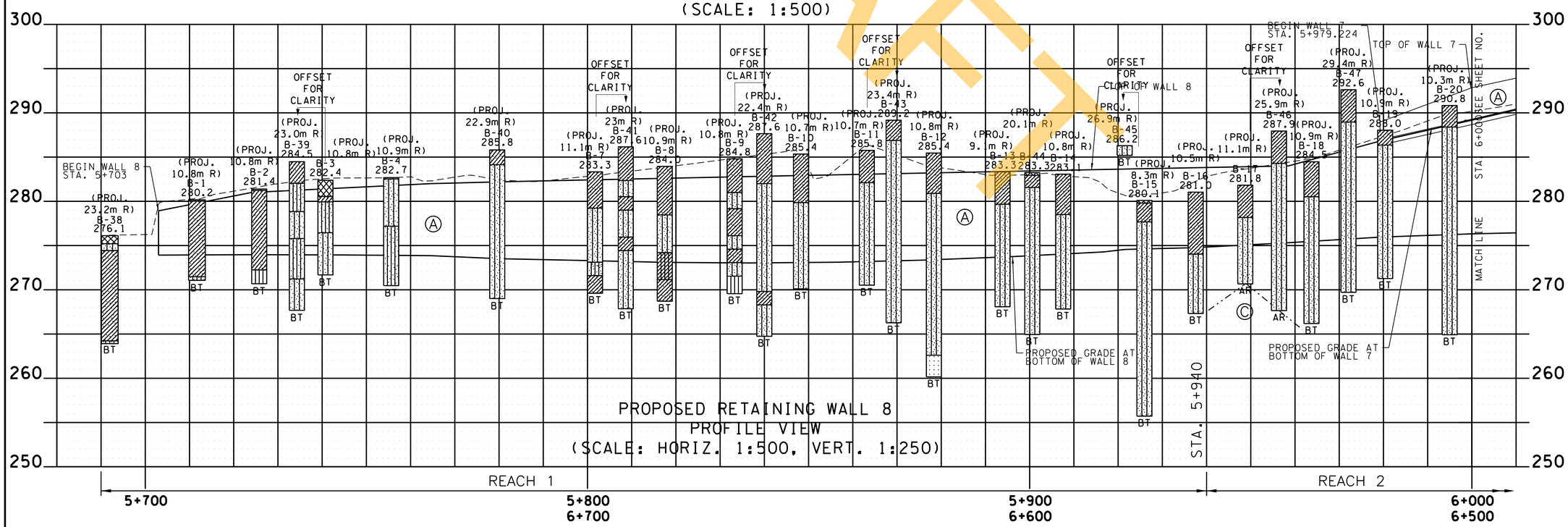
LITHOLOGIC SYMBOLS

- TOPSOIL
- FILL (MADE GROUND)
- LOW PLASTICITY CLAY
- LOW PLASTICITY SANDY CLAY
- SILTY SAND
- SILT
- SANDY SILT
- SANDSTONE
- BT — BORING TERMINATED
- AR — AUGER REFUSAL

SOIL DESCRIPTIONS

- Ⓐ — SOIL
- Ⓒ — WEATHERED ROCK

(FOR WALL ALIGNMENT)



PROPOSED RETAINING WALL 8
PROFILE VIEW
(SCALE: HORIZ. 1:500, VERT. 1:250)

SEALED BY

PRELIMINARY PLANS

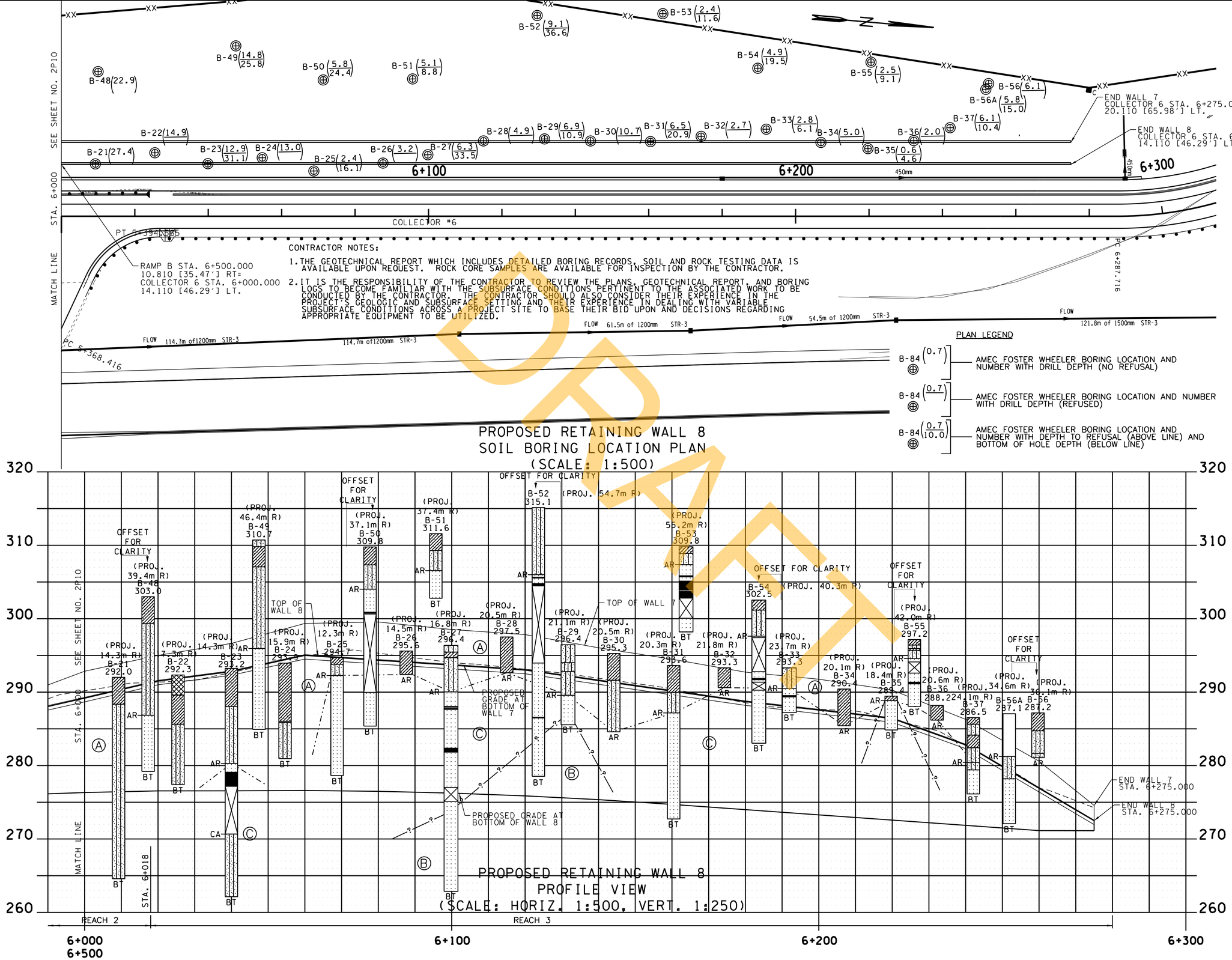
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOLOGIC PLAN AND PROFILE RETAINING WALLS NO. 7 AND 8
STA. 5+703 TO STA. 6+000
SCALE: AS NOTED

DRAFT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P8
			2P7



CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PROPOSED RETAINING WALL 8
SOIL BORING LOCATION PLAN
(SCALE: 1:500)

PROPOSED RETAINING WALL 8
PROFILE VIEW
(SCALE: HORIZ. 1:500, VERT. 1:250)

SEALED BY

PRELIMINARY PLANS

METRIC

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOLOGIC PLAN AND PROFILE RETAINING WALLS NO. 7 AND 8
STA. 5+703 TO STA. 6+000
SCALE: AS NOTED

DRAFT

WALL NO. 8 GEOLOGIC PLAN AND PROFILE STA. 6+000 TO STA 6+275.sht
9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\02-RETAINING WALL NO.8

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o01

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ROUNDABOUT ONE

SOUTHWEST CORNER - CIRCULAR ARC CURVE

	POINT	STATION	OFFSET	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
1	P100	1+040.000	3.600m RT.	176241.5775	784581.7888		258.332
1	P101	1+046.287	3.600m RT.	176245.7852	784586.4614		258.465
1	P102	1+065.434	3.600m RT.	176260.3840	784599.8442		258.820
1	P103	1+091.134	15.117m RT.	176274.7389	784624.2054		259.596
1	P104	1+091.190	15.176m RT.	176274.7506	784624.2867		259.599
1	P105	1+103.021	38.021m RT.	176271.1788	784649.7641		260.130
1	P106	1+046.287	100.000m LT.	176322.7708	784517.1347	103.600	
1	P107	1+065.434	40.600m RT.	176238.1031	784629.3832	37.000	
1	P108	1+107.118	0.000m	176296.5455	784621.1235	22.000	
1	P109	1+061.239	47.280m RT.	176229.2277	784630.8938	46.000	

1. STATION & OFFSET FROM MALONEY ROAD ALIGNMENT
2. STATION & OFFSET FROM COLLECTOR #1 ALIGNMENT

SOUTHEAST CORNER - CIRCULAR ARC CURVE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
1	P110	1+109.293	42.465m RT.	176273.7226	784657.0177		260.335
1	P111	1+121.272	18.160m RT.	176297.1225	784643.8548		260.554
1	P112	1+199.531	3.600m RT.	176341.3934	784696.2662		264.607
1	P113	1+200.000	3.600m RT.	176341.4393	784696.7156		264.632
1	P114	1+132.722	35.412m RT.	176292.0148	784662.1554	19.000	
1	P115	1+199.531	64.600m RT.	176280.7241	784702.6094	61.000	
1	P116	1+200.000	98.200m RT.	176247.3063	784706.1033	94.600	

NORTHEAST CORNER - CIRCULAR ARC CURVE SLIP LANE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
2	P117	1+583.279	3.600m RT.	176362.3275	784602.1987		261.126
1	P118	1+151.514	7.200m RT.	176334.7023	784647.1873		262.187
1	P119	1+600.000	7.200m RT.	176339.4613	784654.9504		262.855
1	P120	1+151.514	36.200m RT.	176358.7487	784630.9770	29.000	
1	P121	1+200.000	98.200m RT.	176247.3063	784706.1033	105.400	

NORTHEAST CORNER - CIRCULAR ARC CURVE INSIDE LANE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
2	P122	1+583.279	3.600m RT.	176362.3279	784602.1992		261.126
2	P123	1+559.486	4.710m RT.	176339.8883	784603.8579		260.461
2	P124	1+554.107	5.034m RT.	176335.0128	784605.2139		260.385
2	P125	1+547.020	5.537m RT.	176328.8048	784607.5581		260.383
1	P126	1+128.886	7.938m LT.	176319.2203	784628.2620		260.944
1	P127	1+136.378	4.794m LT.	176322.7790	784636.1053		261.274
1	P128	1+150.932	3.600m LT.	176331.3789	784648.7009		262.137
1	P129	1+160.000	3.600m LT.	176336.3137	784656.6975		262.721
2	P130	1+583.285	60.941m RT.	176355.2529	784659.1020	57.341	
2	P131	1+556.471	42.000m RT.	176344.9270	784640.8609	37.000	
1	P132	1+136.825	23.355m LT.	176336.6480	784623.7594	18.000	
1	P133	1+139.351	29.546m LT.	176343.4255	784622.0084	25.000	
1	P134	1+200.000	98.200m RT.	176247.3063	784706.1033	101.800	

NORTHWEST CORNER - CIRCULAR ARC CURVE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
1	P135	1+030.000	3.297m LT.	176240.0113	784569.7422		258.244
1	P136	1+033.887	3.415m LT.	176242.6995	784572.5516		258.256
1	P137	1+087.414	15.037m LT.	176289.1547	784597.4607		259.411
1	P138	1+097.742	19.902m LT.	176300.3963	784599.4701		259.830
2	P139	1+536.660	7.484m LT.	176314.1387	784599.5868		260.134
2	P140	1+560.586	3.600m LT.	176339.5858	784595.4819		260.748
1	P141	1+031.316	88.376m LT.	176304.1143	784513.7875	85.000	
2	P142	1+544.267	47.238m LT.	176307.6094	784559.1100	41.000	

ROUNDABOUT TWO

SOUTHWEST CORNER - CIRCULAR ARC CURVE

	POINT	STATION	OFFSET	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
3	P200	1+310.000	3.600m RT.	176317.6234	784801.9849		266.195
3	P201	1+333.671	3.600m RT.	176310.9171	784824.6865		265.879
3	P202	1+351.461	3.600m RT.	176299.4624	784839.8520		265.653
4	P203	2+234.782	11.613m RT.	176271.9439	784857.2680		265.183
4	P204	2+273.053	4.000m RT.	176235.5340	784871.3014		263.378
4	P205	2+280.000	4.000m RT.	176228.6889	784872.4871		262.967
3	P206	1+333.671	30.600m RT.	176285.0233	784817.0372	27.000	
4	P207	2+273.053	104.000m RT.	176218.4659	784772.7688	100.000	

3. STATION & OFFSET FROM MALONEY ROAD ALIGNMENT
4. STATION & OFFSET FROM DRESSER ROAD ALIGNMENT

SOUTHEAST CORNER - CIRCULAR ARC CURVE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
4	P208	2+260.000	4.000m LT.	176249.7609	784876.9561		264.150
4	P209	2+243.065	4.000m LT.	176266.4477	784874.0656		264.927
3	P210	1+387.544	16.733m RT.	176289.1805	784880.6567		265.220
3	P211	1+422.737	3.600m RT.	176308.6371	784913.1916		264.722
3	P212	1+430.403	3.600m RT.	176310.7202	784920.7594		264.672
3	P213	1+440.000	3.600m RT.	176313.5028	784929.9440		264.646
3	P214	1+404.090	38.069m RT.	176271.0561	784900.6694	27.000	
3	P215	1+422.737	68.600m RT.	176245.5477	784928.8353	65.000	
3	P216	1+422.737	150.000m LT.	176457.7223	784876.2244	153.600	

NORTHEAST CORNER - CIRCULAR ARC CURVE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
4	P217	2+150.000	3.600m LT.	176358.0785	784857.7871		264.141
4	P218	2+152.997	3.600m LT.	176355.1252	784858.2987		264.289
3	P219	1+390.433	13.716m LT.	176319.6666	784878.1927		265.134
3	P220	1+411.258	3.606m LT.	176313.3424	784900.4608		264.885
3	P221	1+430.403	3.600m LT.	176317.6110	784918.6718		264.675
3	P222	1+440.000	3.600m LT.	176320.3935	784927.8564		264.656
3	P223	1+444.042	49.545m LT.	176365.5368	784918.4036	61.000	
3	P224	1+411.499	30.605m LT.	176339.9698	784895.9910	27.000	
3	P225	1+430.403	150.000m LT.	176457.7223	784876.2244	146.400	

NORTHWEST CORNER - CIRCULAR ARC CURVE SLIP LANE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
3	P226	1+310.000	7.200m LT.	176327.9809	784805.0446		266.123
3	P227	1+322.212	7.200m LT.	176324.5212	784816.7561		265.967
4	P228	2+151.853	3.600m RT.	176355.0234	784851.0092		264.233
4	P229	2+150.000	3.600m RT.	176356.8496	784850.6928		264.141
3	P230	1+322.212	34.200m LT.	176350.4150	784824.4053	27.000	

NORTHWEST CORNER - CIRCULAR ARC CURVE INSIDE LANE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
3	P231	1+310.000	3.600m LT.	176324.5284	784814.0247		266.195
3	P232	1+321.118	3.600m LT.	176321.3785	784814.6876		266.047
3	P233	1+352.784	12.463m LT.	176320.9071	784847.5665		265.422
4	P234	2+181.276	6.806m RT.	176325.4852	784852.8721		265.250
4	P235	2+170.474	3.600m RT.	176336.6756	784854.1874		264.970
4	P236	2+150.000	3.600m RT.	176356.8496	784850.6928		264.141
3	P237	1+321.118	64.600m LT.	176379.8793	784831.9692	61.000	
3	P238	1+348.631	19.300m LT.	176328.6411	784845.5209	8.000	
3	P239	1+336.913	20.693m LT.	176333.2961	784834.6779	19.800	

ROUNDABOUT THREE

SOUTHWEST CORNER - CIRCULAR ARC CURVE

	POINT	STATION	OFFSET	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
5	P300	8+115.000	3.300m RT.	178051.4230	784357.9325		269.155
5	P301	8+129.624	3.300m RT.	178050.2076	784372.5059		269.182
5	P302	8+150.843	13.604m RT.	178038.1756	784392.7951		269.486
6	P303	6+382.843	16.859 LT.	178037.6116	784393.1802		269.486
6	P304	6+350.804	3.300m LT.	178003.7642	784406.8677		269.379
5	P305	8+129.624	30.300m RT.	178023.3010	784370.2619	27.000	
6	P306	6+396.977	0.000m	178050.2957	784411.1555	22.000	
6	P307	6+350.804	83.300m LT.	177991.4875	784327.8153	80.000	

5. STATION & OFFSET FROM MONTLAKE DRIVE ALIGNMENT
6. STATION & OFFSET FROM COLLECTOR #6 ALIGNMENT
7. STATION & OFFSET FROM COLLECTOR #3 ALIGNMENT
8. STATION & OFFSET FROM RAMP A ALIGNMENT

SOUTHEAST CORNER - CIRCULAR ARC CURVE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
6	P308	6+350.000	3.300m RT.	178004.0092	784413.5119		269.362
6	P309	6+357.371	3.300m RT.	178011.0793	784412.6217		269.368
6	P310	6+379.376	13.199m RT.	178031.6586	784422.8457		269.486
7	P311	112+006.364	17.535m RT.	178031.7176	784422.9391		269.486
7	P312	112+043.809	4.950m RT.	178041.1466	784461.3002		269.229
7	P313	112+050.000	4.950m RT.	178040.6320	784467.4702		269.195
6	P314	6+350.000	100.000m RT.	178019.6166	784508.9441	96.700	
6	P315	6+357.371	25.300m RT.	178013.0216	784434.5358	22.000	
6	P316	6+396.977	0.000m	178050.2957	784411.1555	22.000	
7	P317	112+043.809	66.950m RT.	177979.3611	784456.1474	62.000	

NORTHEAST CORNER - CIRCULAR ARC CURVE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
7	P318	112+000.803	20.595m LT.	178070.1764	784420.5766		269.486
7	P319	112+006.364	17.535m LT.	178066.6653	784425.8537		269.486
7	P320	112+043.809	4.950m LT.	178051.0123	784462.1230		269.229
7	P321	112+043.809	66.950m LT.	178050.4978	784468.2930		269.195
7	P322	111+993.077	0.000m	178050.2957	784411.1555	22.000	
7	P323	112+050.000	4.950m LT.	178112.7978	784467.2758	62.000	

NORTHWEST CORNER - CIRCULAR ARC CURVE

	POINT	STATION	OFFSET (m)	NORTHING	EASTING	RADIUS (m)	PROPOSED ELEV.
5	P324	8+115.000	3.300m LT.	178058.0001	784358.4811		269.241
5	P325	8+115.294	3.300m LT.	178057.9757	784358.7740		269.238
5	P326	8+154.294	17.102m LT.	178068.4891	784398.7861		269.484
8	P327	122+596.439	14.985m RT.	178071.6800	784405.9869		269.486
8	P328	122+562.029	0.000m	178094.3303	784435.9135		267.724
5	P329	8+115.294	65.300m LT.	178119.7612	784363.9268	62.000	
5	P330	8+168.133	0.000m	178050.2957	784411.1555	22.000	
8	P331	122+562.029	47.000m RT.	178117.3645	784394.9450	47.000	

NOTE:
IT IS IMPERATIVE THAT RADII ARE CONSTRUCTED AS DETAILED. DETAILS REFLECT THE MINIMUM APPROPRIATE VEHICLE TURNING PATHS.

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DEPARTMENT OF TRANSPORTATION

ROUNDABOUT COORDINATE TABLES

9/30/2015
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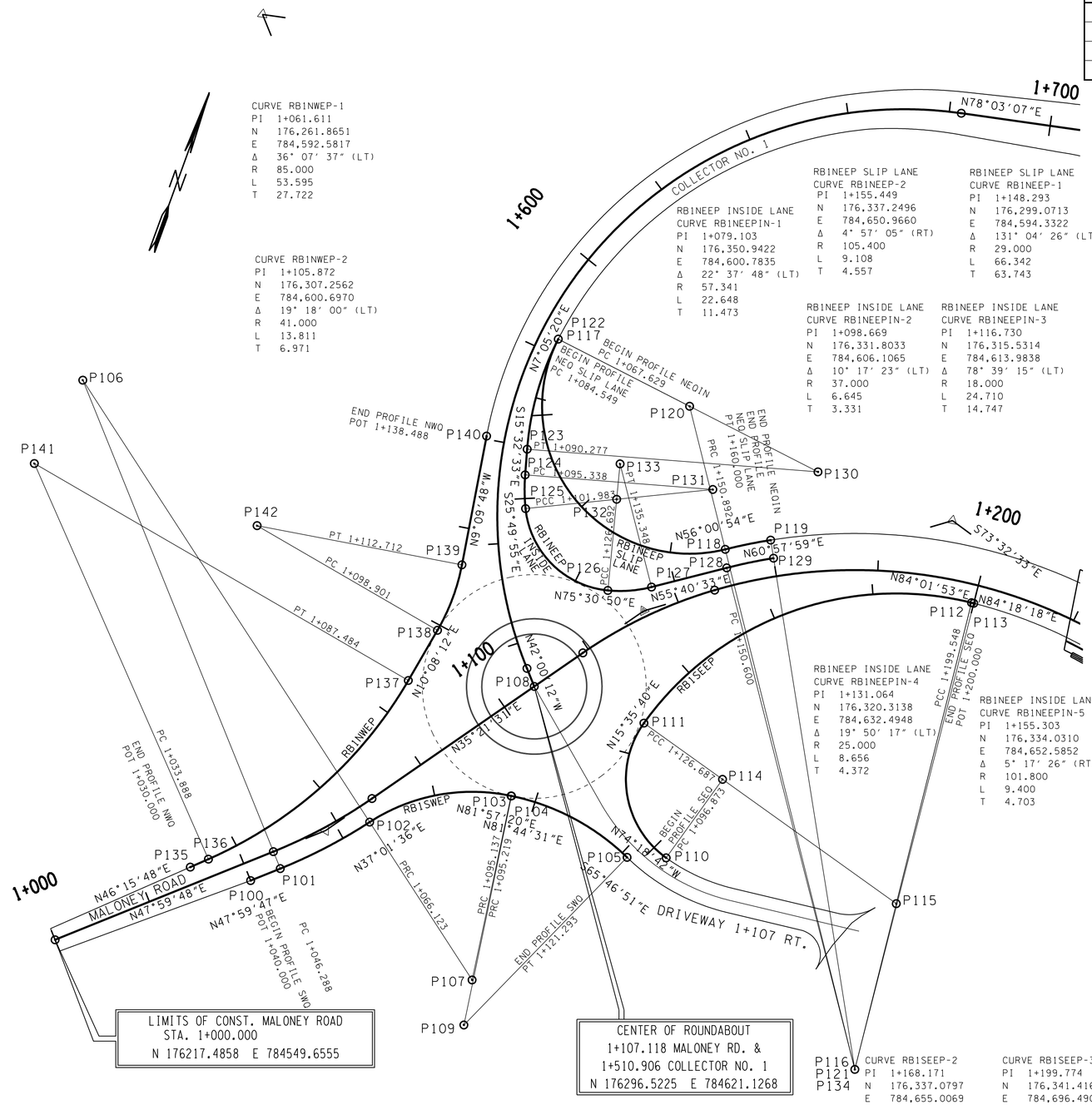
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o02



CURVE RB1NWEP-1
PI 1+061.611
N 176,261.8651
E 784,592.5817
Δ 36° 07′ 37″ (LT)
R 85.000
L 53.595
T 27.722

CURVE RB1NWEP-2
PI 1+105.872
N 176,307.2562
E 784,600.6970
Δ 19° 18′ 00″ (LT)
R 41.000
L 13.811
T 6.971

RB1NEEP INSIDE LANE
CURVE RB1NEEPIN-1
PI 1+079.103
N 176,350.9422
E 784,600.7835
Δ 22° 37′ 48″ (LT)
R 57.341
L 22.648
T 11.473

RB1NEEP SLIP LANE
CURVE RB1NEEP-2
PI 1+155.449
N 176,337.2496
E 784,650.9660
Δ 4° 57′ 05″ (RT)
R 105.400
L 9.108
T 4.557

RB1NEEP SLIP LANE
CURVE RB1NEEP-1
PI 1+148.293
N 176,299.0713
E 784,594.3322
Δ 131° 04′ 26″ (LT)
R 29.000
L 66.342
T 63.743

RB1NEEP INSIDE LANE
CURVE RB1NEEPIN-2
PI 1+098.669
N 176,331.8033
E 784,606.1065
Δ 10° 17′ 23″ (LT)
R 37.000
L 6.645
T 3.331

RB1NEEP INSIDE LANE
CURVE RB1NEEPIN-3
PI 1+116.730
N 176,315.5314
E 784,613.9838
Δ 78° 39′ 15″ (LT)
R 18.000
L 24.710
T 14.747

RB1NEEP INSIDE LANE
CURVE RB1NEEPIN-4
PI 1+131.064
N 176,320.3138
E 784,632.4948
Δ 19° 50′ 17″ (LT)
R 25.000
L 8.656
T 4.372

RB1NEEP INSIDE LANE
CURVE RB1NEEPIN-5
PI 1+155.303
N 176,334.0310
E 784,652.5852
Δ 5° 17′ 26″ (RT)
R 101.800
L 9.400
T 4.703

NOTE:
SEE SHEET 2o01 FOR CURVE RETURN STATION/OFFSET & COORDINATES.

NOTE:
IT IS IMPERATIVE THAT RADII ARE CONSTRUCTED AS DETAILED. DETAILS REFLECT THE MINIMUM APPROPRIATE VEHICLE TURNING PATHS.

ROADWAY CURVE DATA

ROAD	MALONEY	MALONEY	MALONEY	COL-1	DWY 1+107 RT.
PI	1+057.361	1+133.268	1+196.250	1+653.451	0+043.819
N	176255.8703	176317.8490	176355.2795	176,402.4478	176,296.5225
E	784592.2810	784636.2596	784687.2208	784,525.7404	784,621.1268
Δ	12°38′18″(LT)	18°20′40″(RT)	52°45′16″(RT)	120°03′18″(RT)	46°58′34″(LT)
R	100.000	90.000	98.200	80.000	40.000
L	22.058	28.816	90.417	167.628	32.796
T	11.074	14.532	48.698	138.718	17.383
E	0.611	1.166	11.412	80.133	3.614
L.C.	22.013	28.693	87.257	138.603	31.885
SE	3.0% LT.	4.0% RT	4.0% RT	3.8% RT.	N.C.
DESIGN SPEED	50km/h	50km/h	50km/h	40km/h	-
TRANS. LENGTH	25	32	32	30	-

CURVE RB1SWEP-1
PI 1+056.236
N 176,252.4421
E 784,593.8537
Δ 10° 58′ 11″ (LT)
R 103.600
L 19.835
T 9.948

CURVE RB1SWEP-2
PI 1+081.422
N 176,272.5980
E 784,609.0570
Δ 44° 55′ 44″ (RT)
R 37.000
L 29.014
T 15.299

CURVE RB1SWEP-3
PI 1+095.178
N 176,274.7447
E 784,624.2461
Δ 0° 12′ 49″ (LT)
R 22.023
L 0.082
T 0.041

CURVE RB1SWEP-4
PI 1+108.616
N 176,276.6749
E 784,637.5456
Δ 32° 28′ 38″ (RT)
R 46.000
L 26.074
T 13.398

CURVE RB1SEEP-1
PI 1+115.842
N 176,278.8519
E 784,638.7555
Δ 89° 54′ 22″ (RT)
R 19.000
L 29.814
T 18.969

CURVE RB1SEEP-2
PI 1+168.171
N 176,337.0797
E 784,655.0069
Δ 68° 26′ 13″ (RT)
R 61.000
L 72.861
T 41.484

CURVE RB1SEEP-3
PI 1+199.774
N 176,341.4169
E 784,696.4909
Δ 0° 16′ 25″ (RT)
R 94.600
L 0.452
T 0.226

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GEOMETRIC LAYOUT MALONEY ROAD @ COLLECTOR NO.1

ROUNDABOUT ONE DETAILS

SCALE: 1:500

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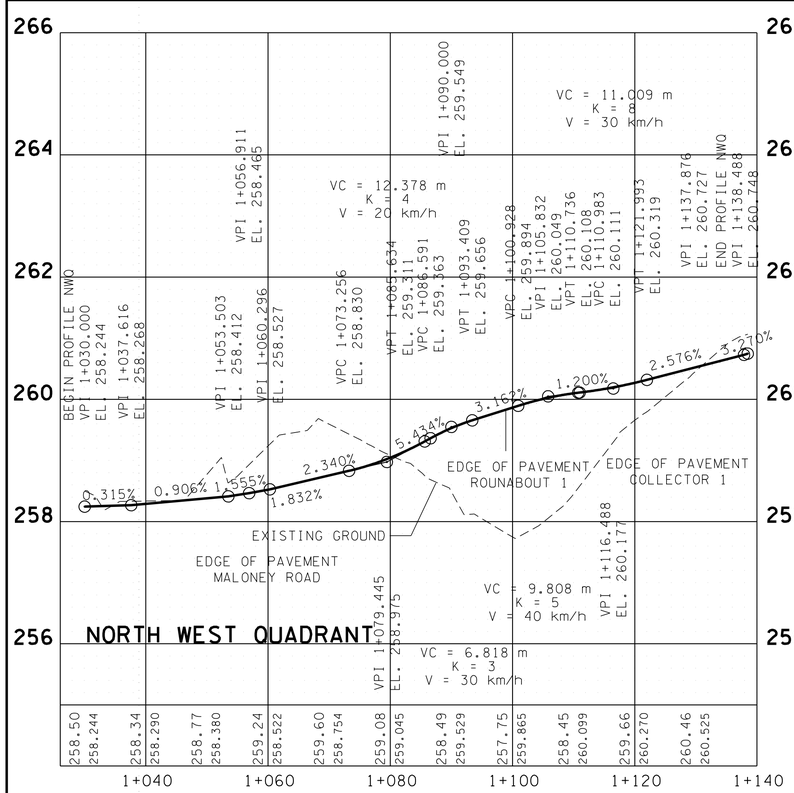
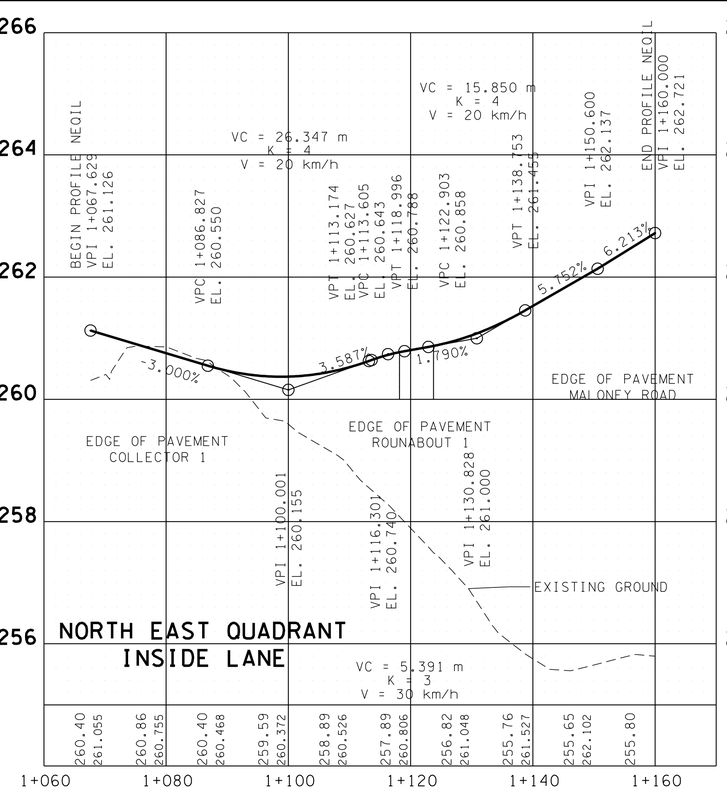
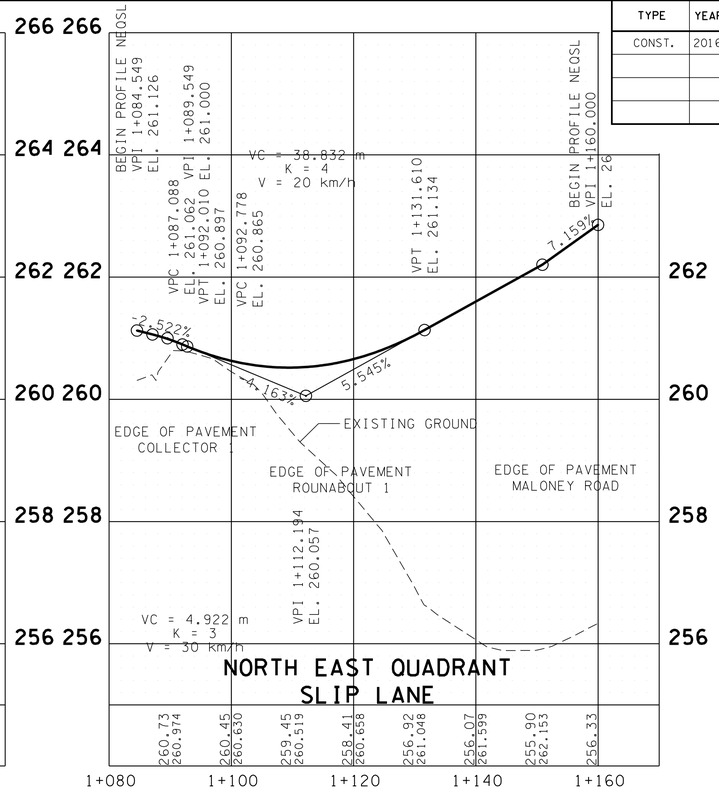
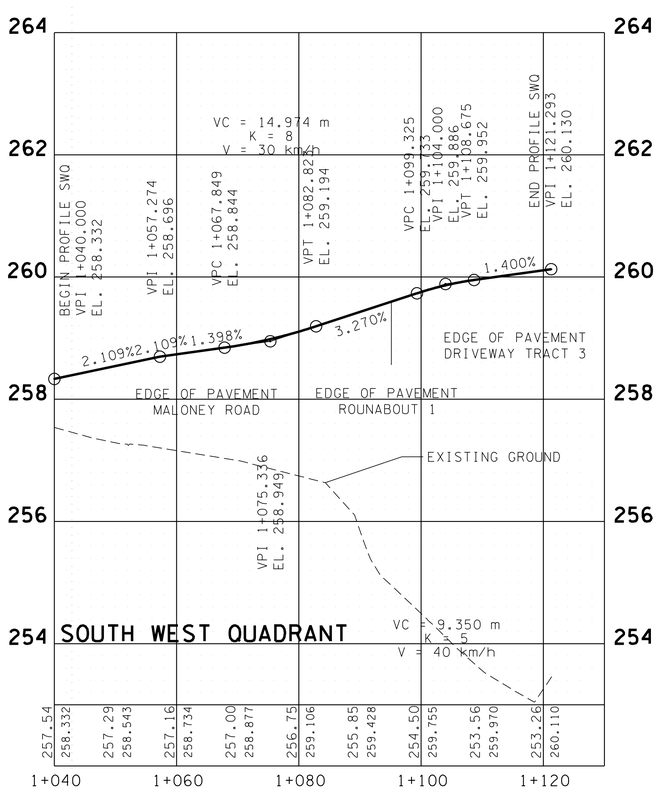
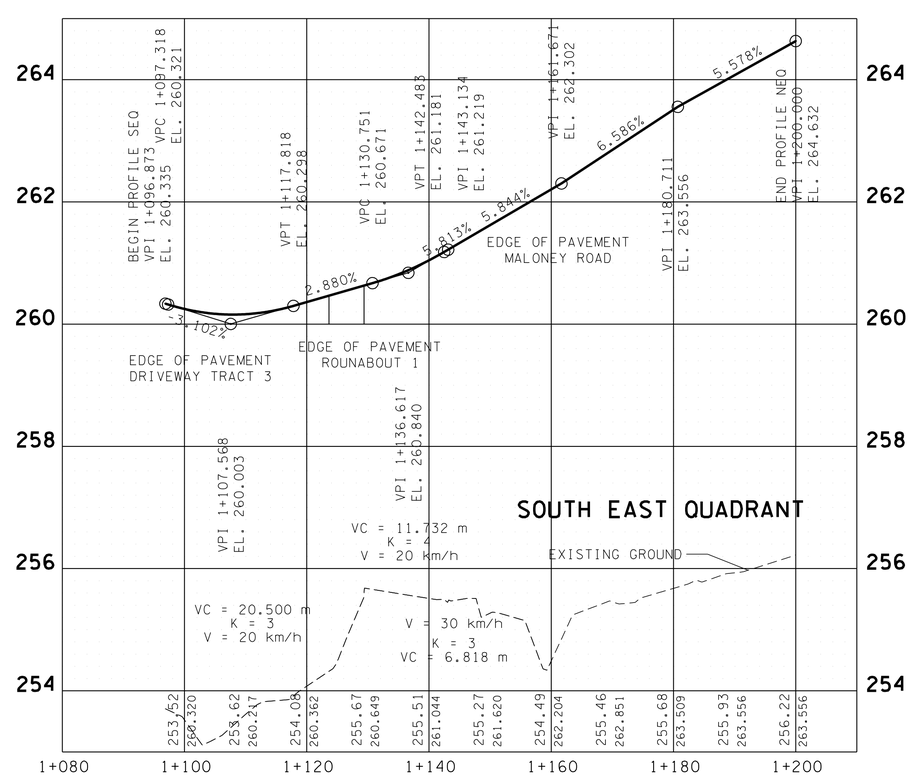
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o03











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RADIUS PROFILES AT EDGE OF ROADWAY MALONEY ROAD @ COLLECTOR NO.1

ROUNDABOUT ONE DETAILS

SCALE: 1:500 HORIZ.
1:50 VERT.

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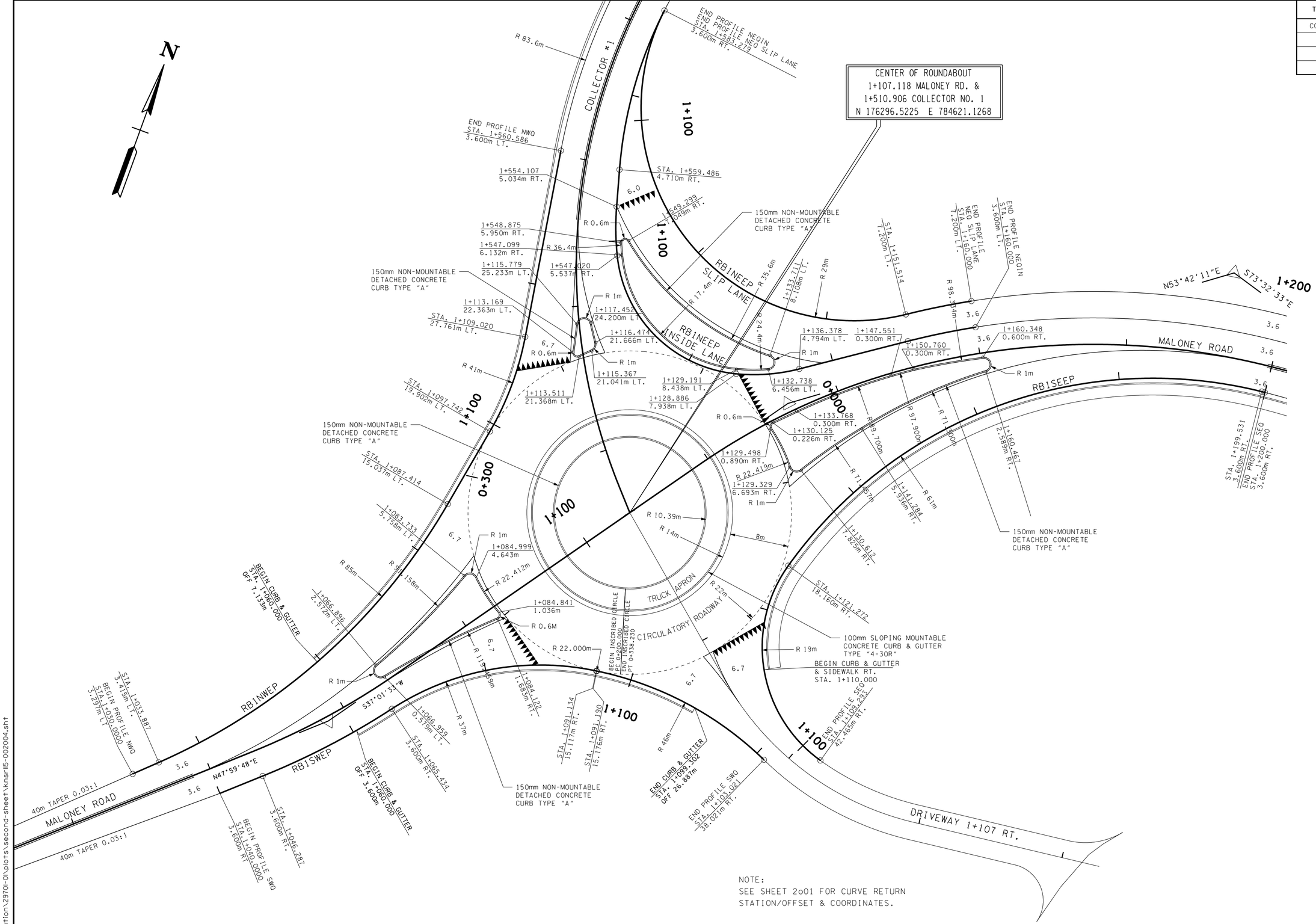
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o04



NOTE:
SEE SHEET 2o01 FOR CURVE RETURN
STATION/OFFSET & COORDINATES.

NOTE:
IT IS IMPERATIVE THAT RADII ARE CONSTRUCTED
AS DETAILED. DETAILS REFLECT THE MINIMUM
APPROPRIATE VEHICLE TURNING PATHS.

MALONEY ROAD @ COLLECTOR NO.1

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ROUNDABOUT ONE DETAILS

SCALE: 1:250

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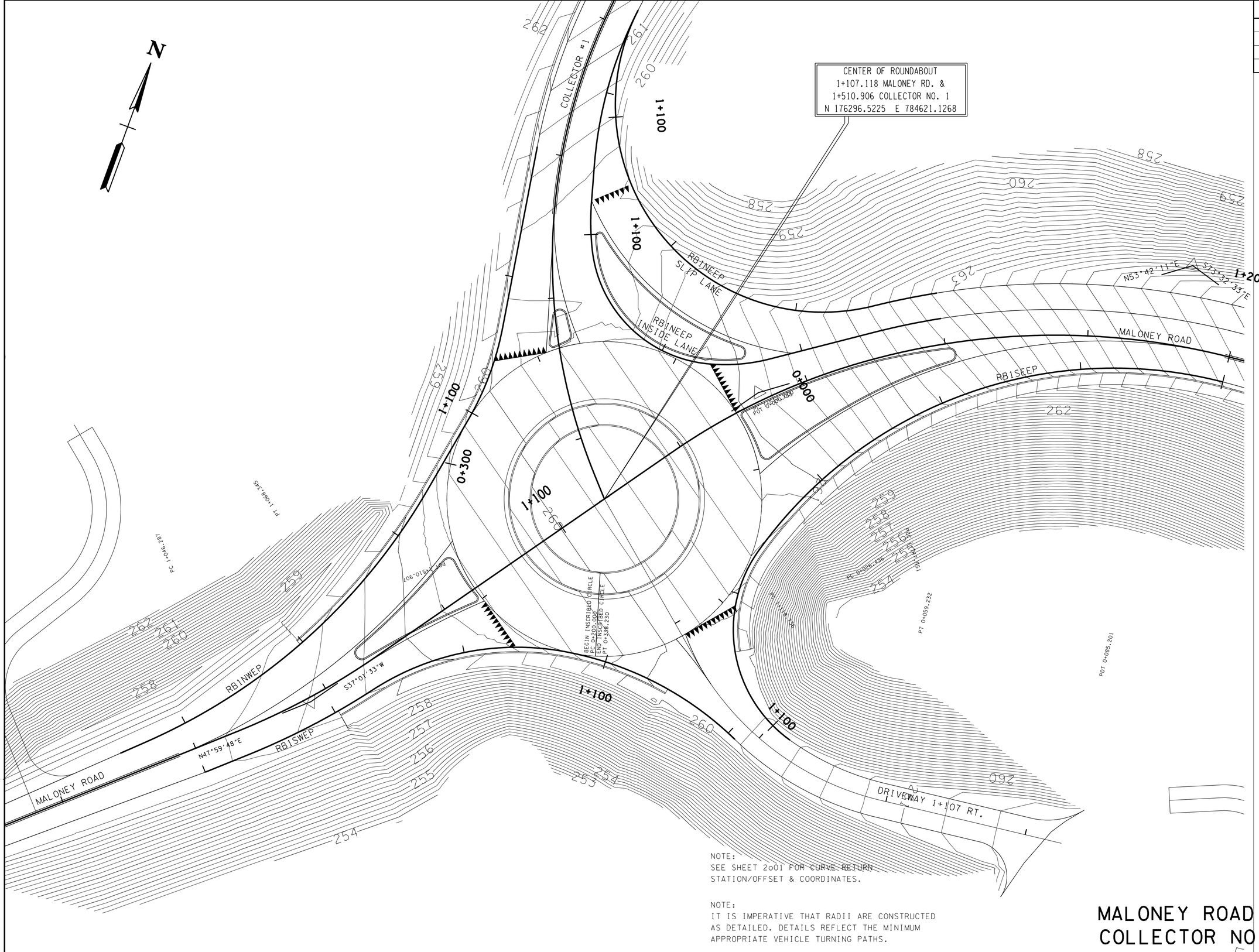
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o05



NOTE:
SEE SHEET 2o01 FOR CURVE RETURN STATION/OFFSET & COORDINATES.

NOTE:
IT IS IMPERATIVE THAT RADII ARE CONSTRUCTED AS DETAILED. DETAILS REFLECT THE MINIMUM APPROPRIATE VEHICLE TURNING PATHS.

MALONEY ROAD @ COLLECTOR NO.1

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ROUNDABOUT ONE DETAILS

SCALE: 1:250

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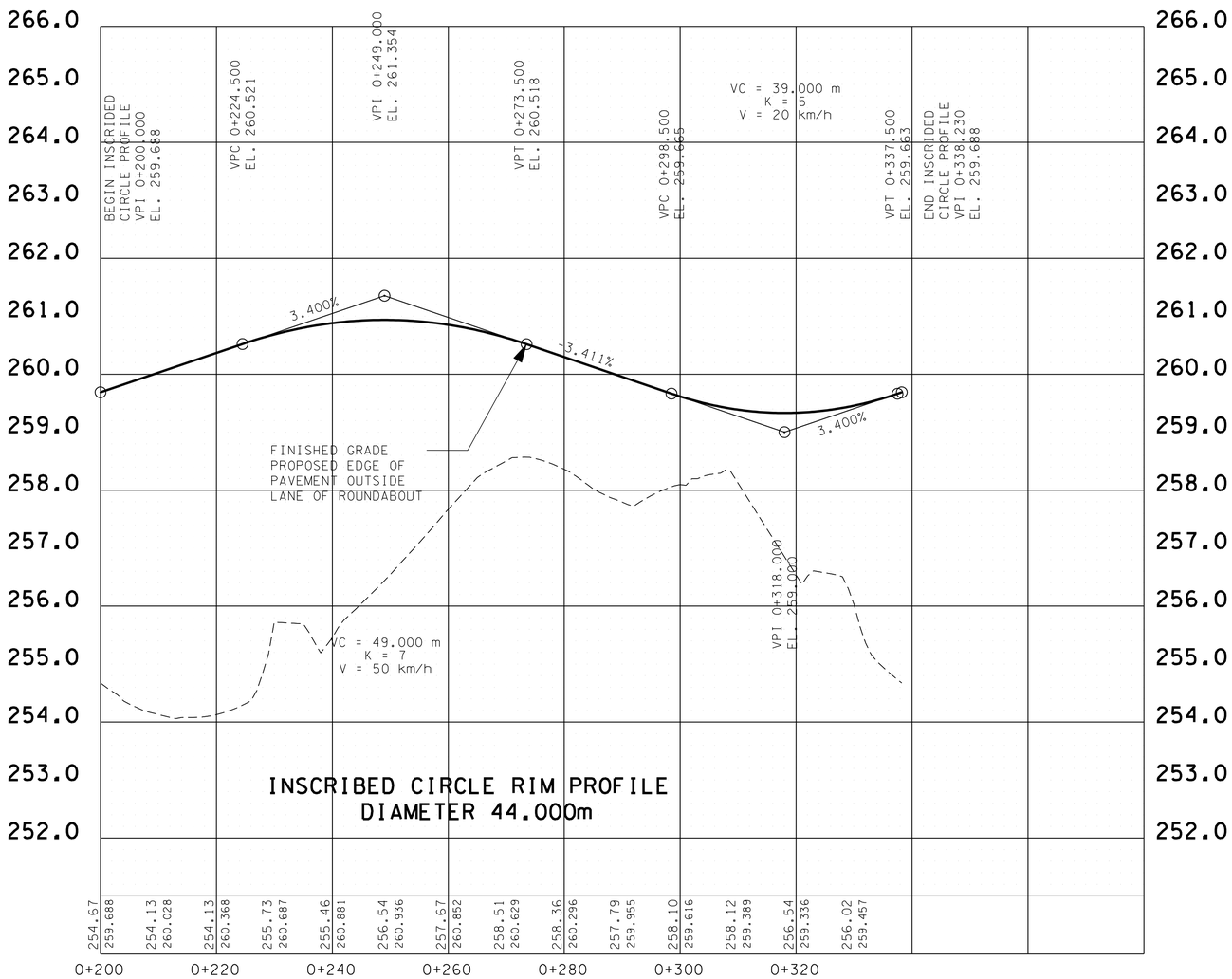
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o06



QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
303-01	MINERAL AGGERGATE	m3	
701M03	100mm CONCRETE MEDIAN PAVEMENT(SPLITER) ISLAND	m3	32.36
702M01	CONCRETE DETACHED CURB	m3	4.493
702M03	150mm NON-MOUNTABLE CONCRETE CURB AND GUTTER	m3	46.073
702M03	100mm SLOPING MOUNTABLE CURB & GUTTER	m3	15.243
	TRUCK APRON (CONC.)	m3	51.074
203M07	CENTER ISLAND	m2	304.527
	CIRCULATORY ASPH. ROADWAY	m2	904.32
TOTAL			

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MALONEY ROAD @
COLLECTOR NO.1

ROUNDABOUT ONE DETAILS

SCALE: 1:500 HORIZ.
1:50 VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o07

RB2NWEP INSIDE LANE
CURVE RB2NWEPIN-1
PI 1+338.191
N 176,316.5416
E 784,831.0611
Δ 31° 16′ 20″ (LT)
R 61.000
L 33.294
T 17.073

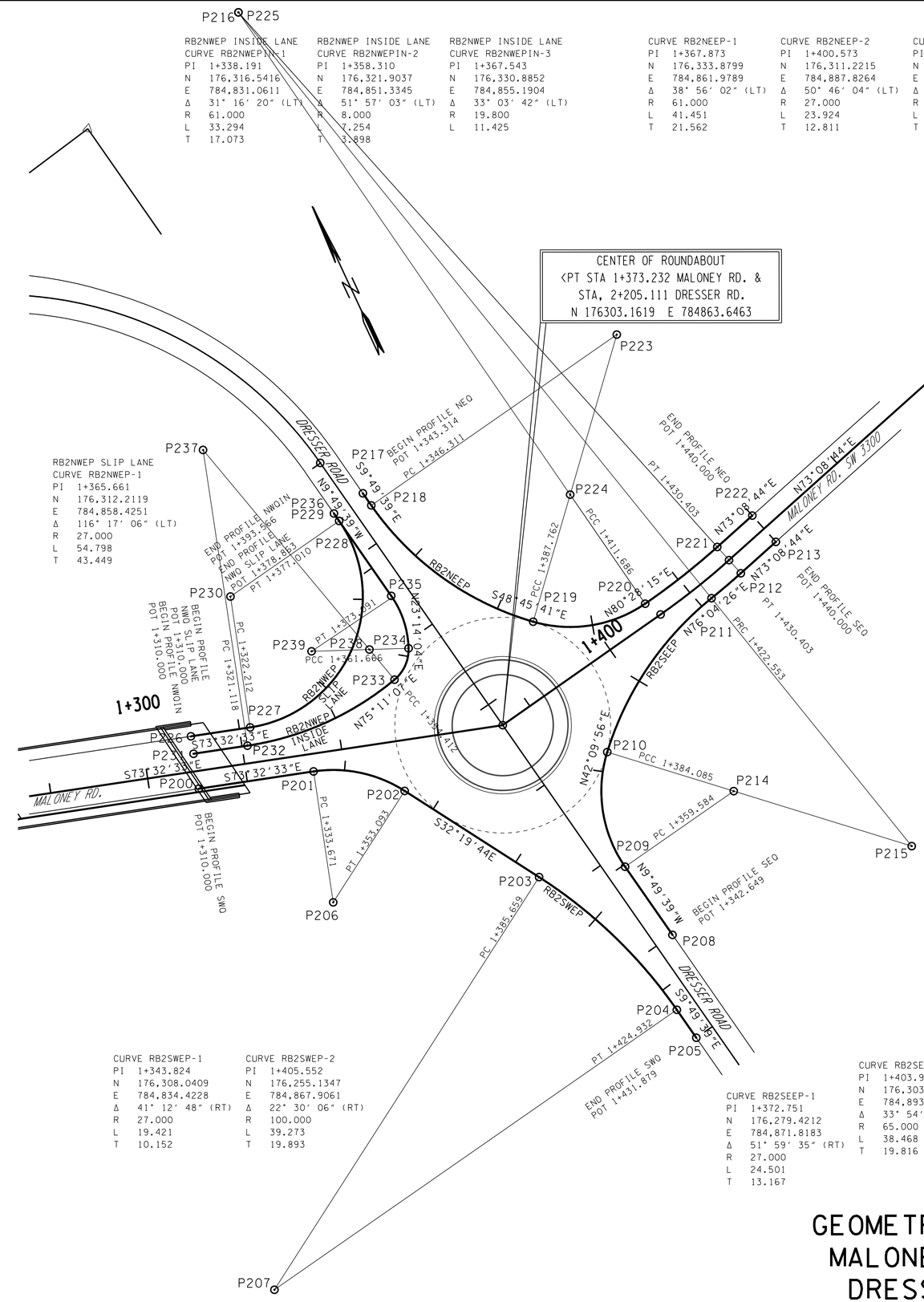
RB2NWEP INSIDE LANE
CURVE RB2NWEPIN-2
PI 1+358.310
N 176,321.9037
E 784,851.3345
Δ 51° 57′ 03″ (LT)
R 8.000
L 7.254
T 3.898

RB2NWEP INSIDE LANE
CURVE RB2NWEPIN-3
PI 1+367.543
N 176,330.8852
E 784,855.1904
Δ 33° 03′ 42″ (LT)
R 19.800
L 11.425

CURVE RB2NEEP-1
PI 1+367.873
N 176,333.8799
E 784,861.9789
Δ 38° 56′ 02″ (LT)
R 61.000
L 41.451
T 21.562

CURVE RB2NEEP-2
PI 1+400.573
N 176,311.2215
E 784,887.8264
Δ 50° 46′ 04″ (LT)
R 27.000
L 23.924
T 12.811

CURVE RB2NEEP-3
PI 1+421.057
N 176,314.8938
E 784,909.7029
Δ 7° 19′ 31″ (LT)
R 146.400
L 18.717
T 9.371



NOTE:
SEE SHEET 2o01 FOR CURVE RETURN STATION/OFFSET & COORDINATES.

NOTE:
IT IS IMPERATIVE THAT RADII ARE CONSTRUCTED AS DETAILED. DETAILS REFLECT THE MINIMUM APPROPRIATE VEHICLE TURNING PATHS.

ROADWAY CURVE DATA

ROAD	MALONEY	MALONEY	DRESSER RD.	DRESSER RD.
PI	1+196.250	1+421.495	2+094.329	2+363.915
N	176,355.2795	176311.5766	176,449.1796	176,146.6877
E	784,687.2208	784,911.1699	784,838.3528	784,890.7512
Δ	52°45′16″(RT)	6°48′48″(LT)	92°07′15″	4°22′56″
R	98.200	150.000	80.000	100.000
L	90.417	17.838	128.625	7.649
T	48.698	8.292	83.017	3.826
E	11.412	0.265	35.290	0.073
L.C.	87.257	17.827	115.211	7.647
SE	4.0% RT	N.C.	3.8% RT.	N.C.
DESIGN SPEED	50km/h	60km/h	40km/h	25km/h
TRANS. LENGTH	32	NA	30	0

CURVE RB2SWEP-1
PI 1+343.824
N 176,308.0409
E 784,834.4228
Δ 41° 12′ 48″ (RT)
R 27.000
L 19.421
T 10.152

CURVE RB2SWEP-2
PI 1+405.552
N 176,255.1347
E 784,867.9061
Δ 22° 30′ 06″ (RT)
R 100.000
L 39.273
T 19.893

CURVE RB2SEEP-1
PI 1+372.751
N 176,279.4212
E 784,871.8183
Δ 51° 59′ 35″ (RT)
R 27.000
L 24.501
T 13.167

CURVE RB2SEEP-2
PI 1+403.901
N 176,303.8680
E 784,893.9585
Δ 33° 54′ 30″ (RT)
R 65.000
L 38.468
T 19.816

CURVE RB2SEEP-3
PI 1+426.479
N 176,309.5820
E 784,917.0021
Δ 2° 55′ 42″ (LT)
R 153.600
L 7.850
T 3.926

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METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT MALONEY ROAD @ DRESSER ROAD

ROUNDABOUT TWO DETAILS

SCALE: 1:500

9/30/2015
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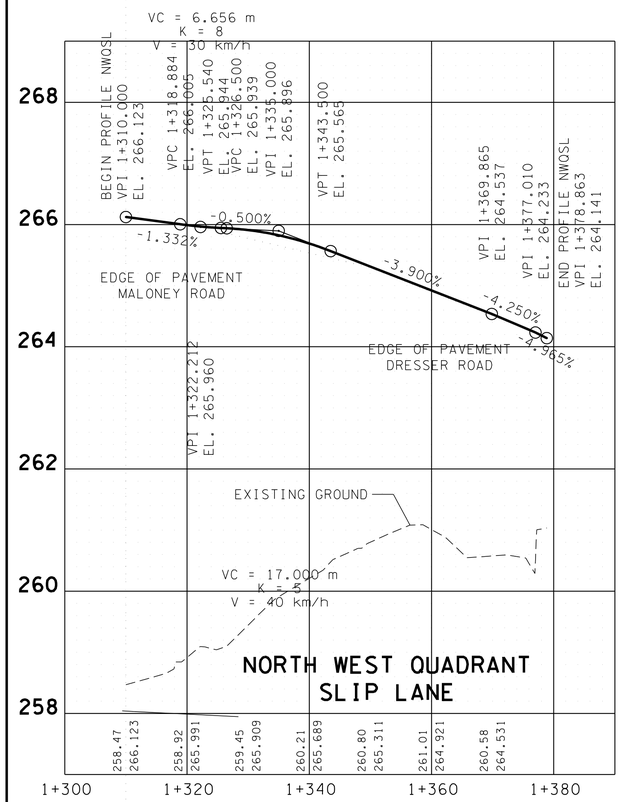
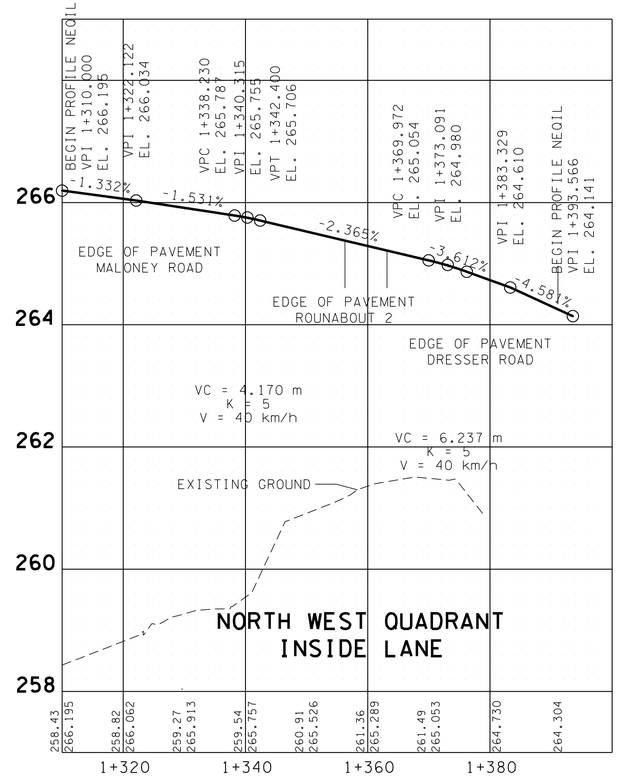
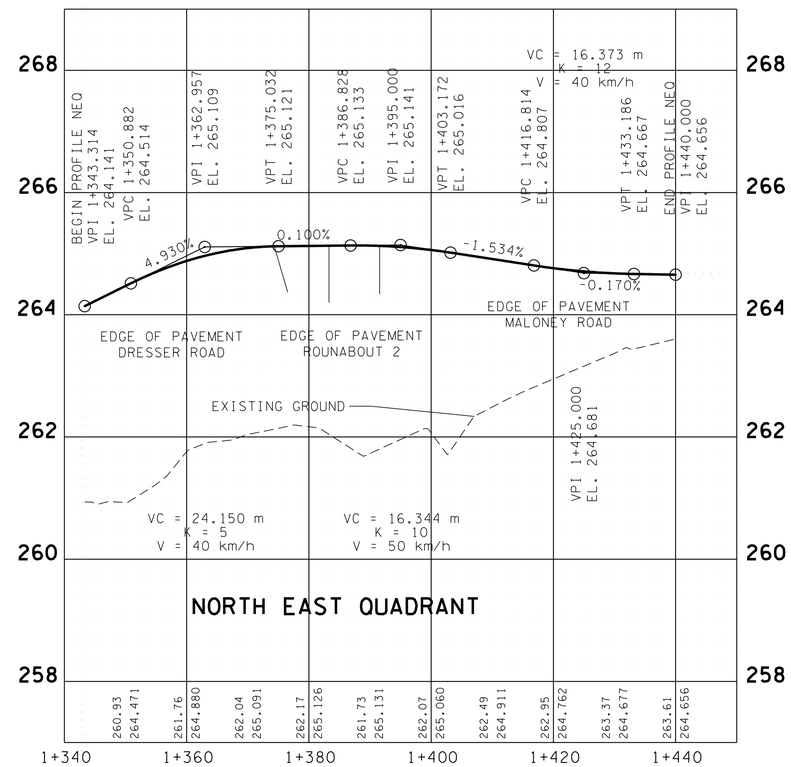
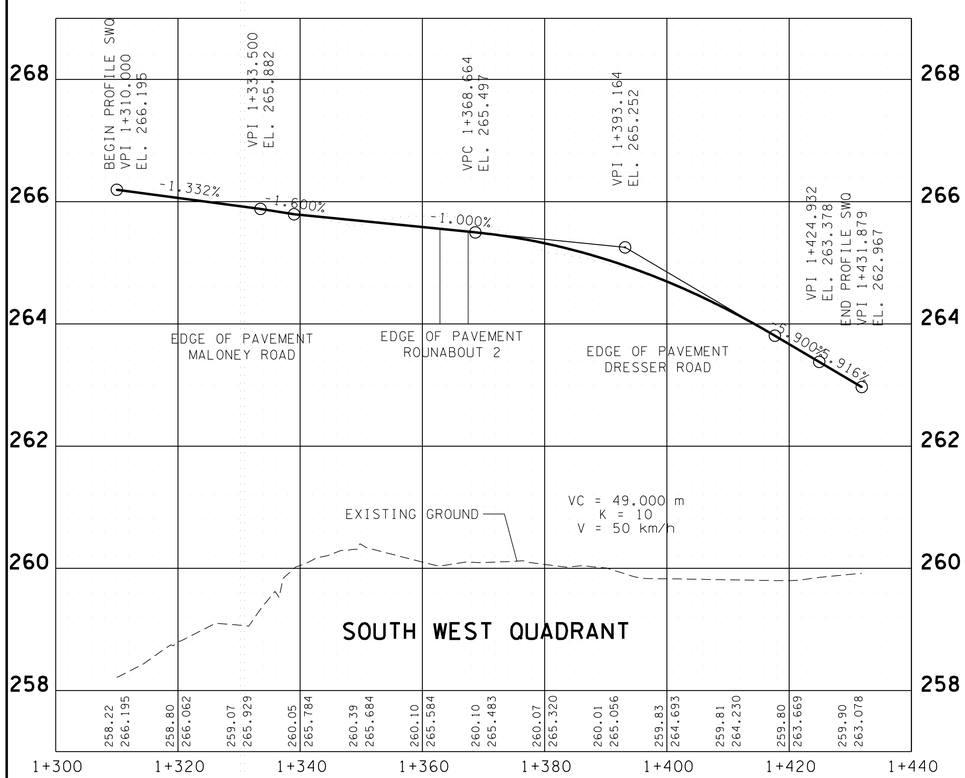
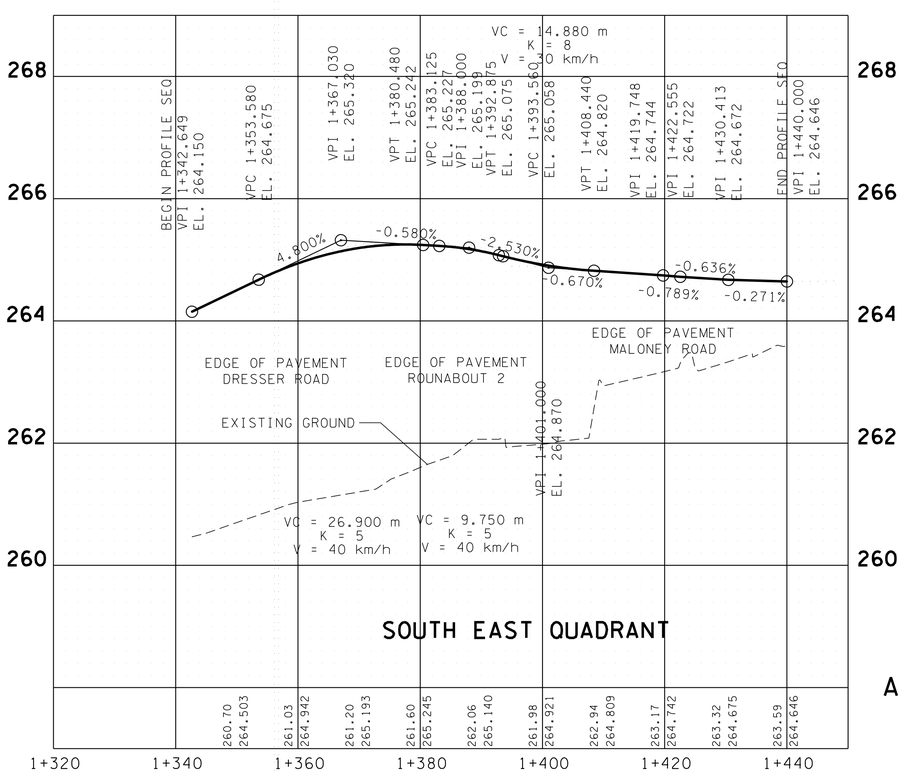
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o08











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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RADIUS PROFILES AT EDGE OF ROADWAY MALONEY ROAD @ DRESSER ROAD

ROUNDABOUT TWO DETAILS

SCALE: 1:500 HORIZ.
1:50 VERT.

9/30/2015
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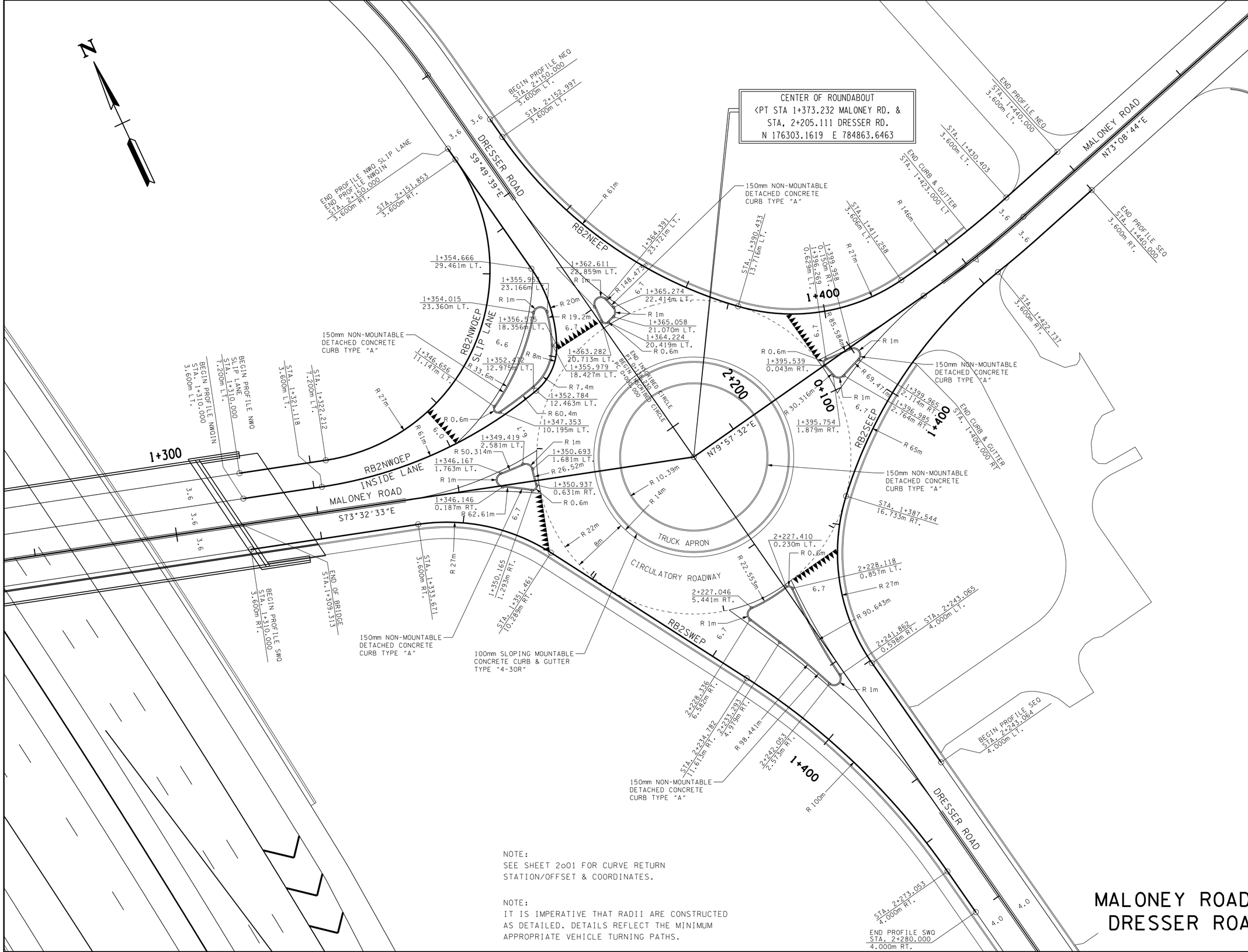
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o09



NOTE:
SEE SHEET 2o01 FOR CURVE RETURN
STATION/OFFSET & COORDINATES.

NOTE:
IT IS IMPERATIVE THAT RADII ARE CONSTRUCTED
AS DETAILED. DETAILS REFLECT THE MINIMUM
APPROPRIATE VEHICLE TURNING PATHS.

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METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MALONEY ROAD @ DRESSER ROAD

ROUNDABOUT TWO DETAILS

SCALE: 1:250

9/30/2015
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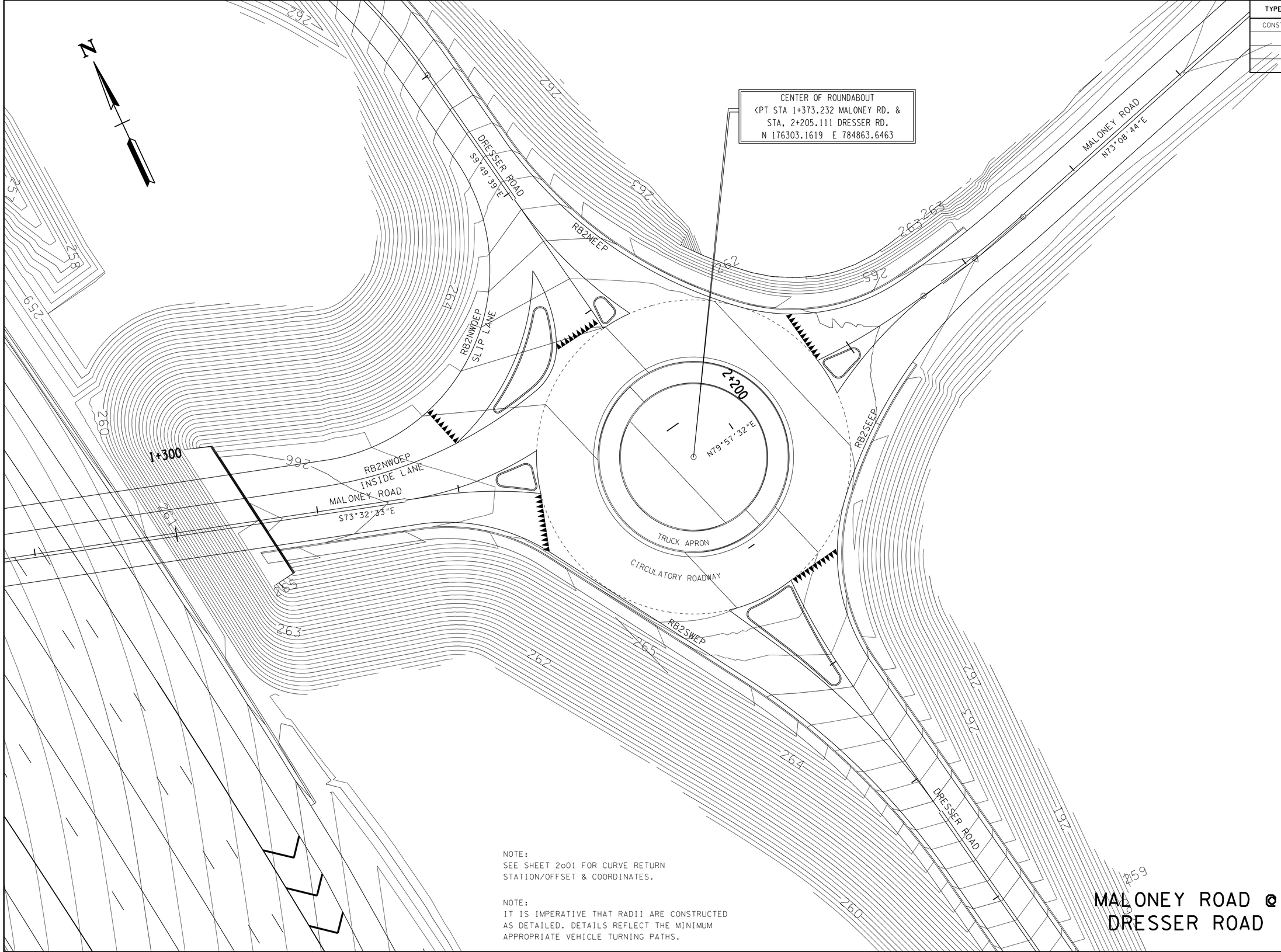
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o10



NOTE:
SEE SHEET 2o01 FOR CURVE RETURN STATION/OFFSET & COORDINATES.

NOTE:
IT IS IMPERATIVE THAT RADII ARE CONSTRUCTED AS DETAILED. DETAILS REFLECT THE MINIMUM APPROPRIATE VEHICLE TURNING PATHS.

MALONEY ROAD @ DRESSER ROAD

SEALED BY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROUNDABOUT TWO DETAILS

SCALE: 1:250

9/30/2015
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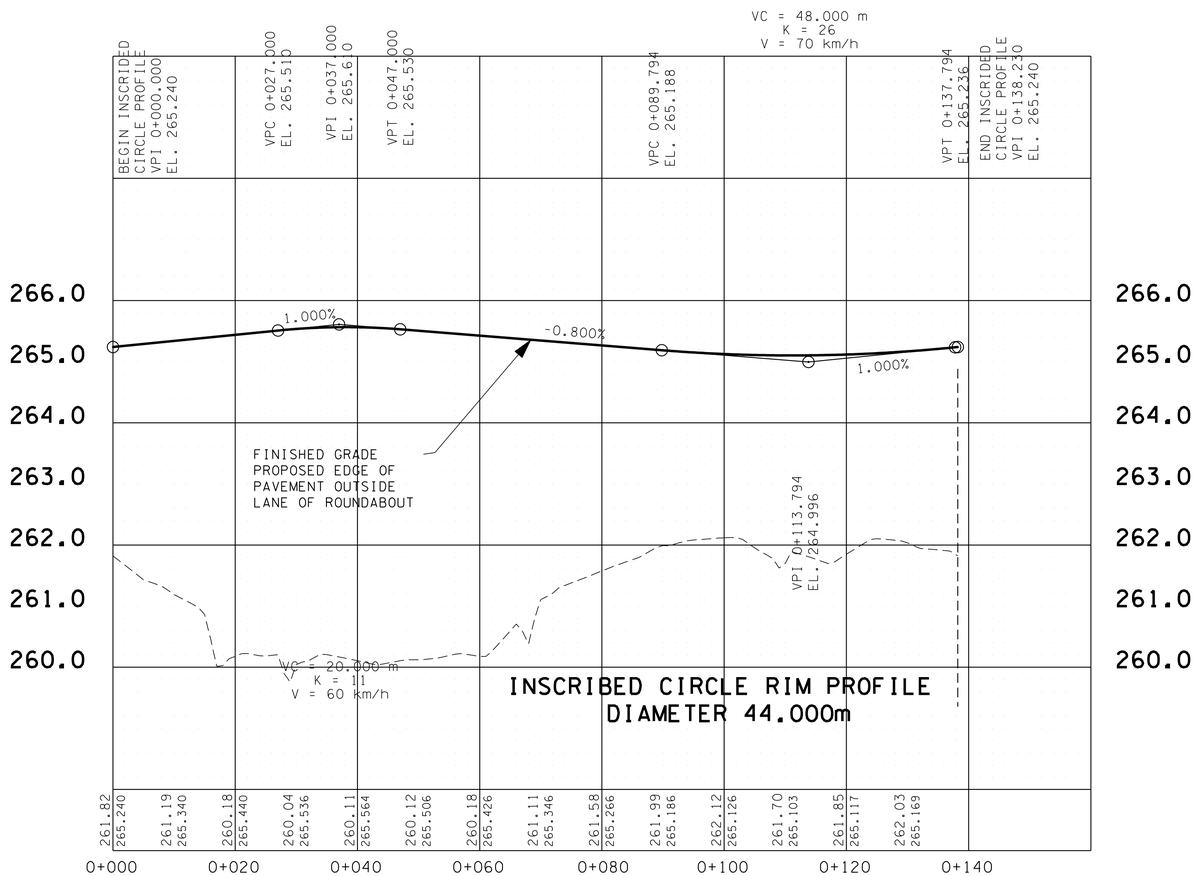
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o11



QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
303-01	MINERAL AGGERGATE	m3	
701M03	100mm CONCRETE MEDIAN PAVEMENT(SPLITER) ISLAND	m3	13.66
702M01	CONCRETE DETACHED CURB	m3	4.793
702M03	150mm NON-MOUNTABLE CONCRETE CURB AND GUTTER	m3	32.953
702M03	100mm SLOPING MOUNTABLE CURB & GUTTER	m3	15.273
	TRUCK APRON (CONC.)	m3	51.024
203M07	CENTER ISLAND	m2	304.527
	CIRCULATORY ASPH. ROADWAY	m2	904.32
TOTAL			

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MALONEY ROAD @
DRESSER ROAD

ROUNDABOUT
TWO
DETAILS

SCALE: 1:500 HORIZ.
1:50 VERT.

9/30/2015
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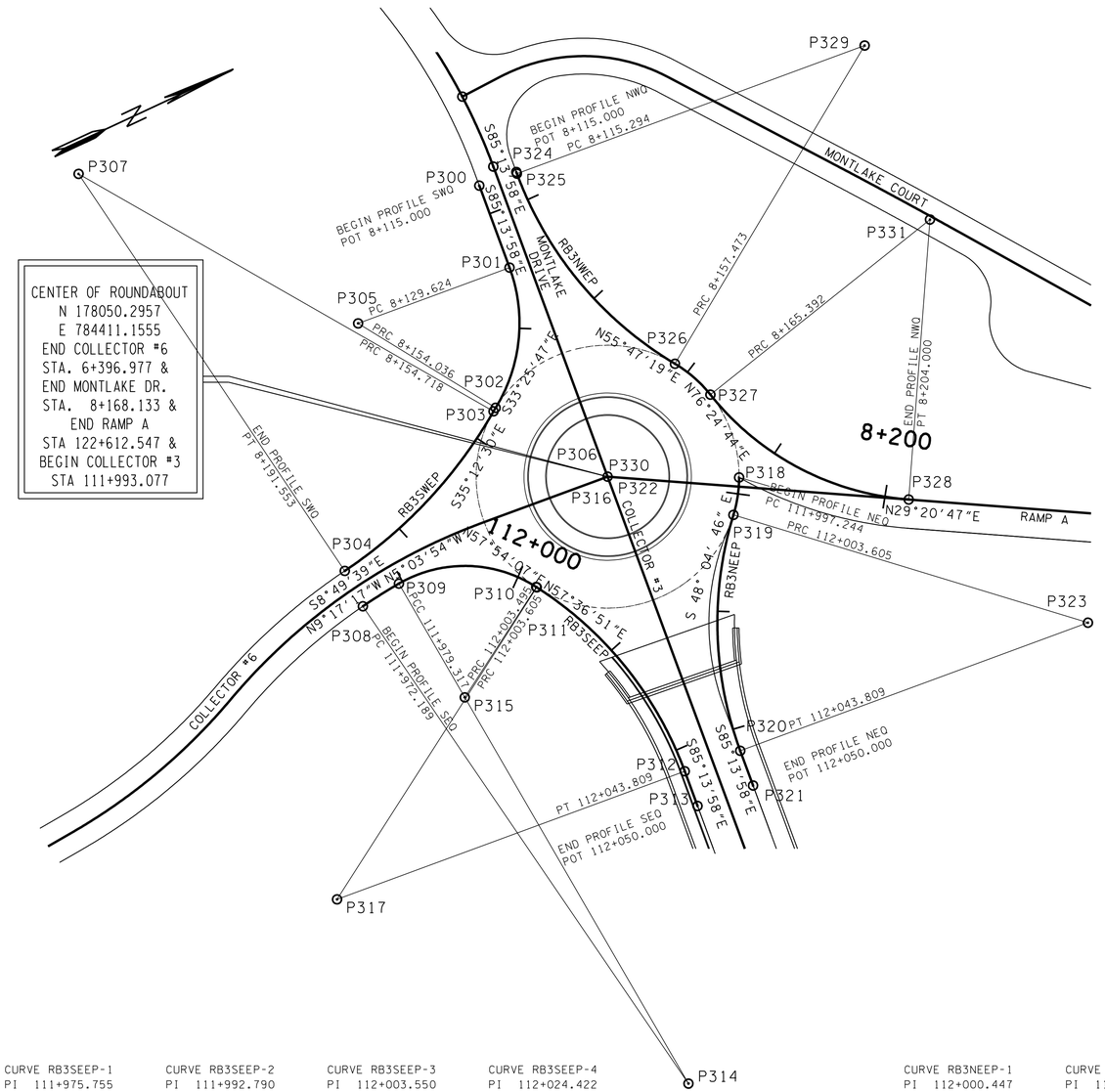
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o12

CURVE RB3SWEP-1	CURVE RB3SWEP-2	CURVE RB3SWEP-3
PI 8+142.735	PI 8+154.377	PI 8+173.468
N 178,049.1179	N 178,037.8906	N 178,022.2919
E 784,385.5719	E 784,392.9833	E 784,403.9904
Δ 51° 48′ 11″ (RT)	Δ 1° 46′ 43″ (LT)	Δ 26° 22′ 51″ (RT)
R 27.000	R 22.000	R 80.000
L 24.412	L 0.683	L 36.835
T 13.111	T 0.342	T 18.750

CURVE RB3NWEP-1	CURVE RB3NWEP-2	CURVE RB3NWEP-3
PI 8+137.236	PI 8+161.476	PI 8+185.860
N 178,056.1521	N 178,070.7396	N 178,076.4887
E 784,380.6404	E 784,402.0962	E 784,425.8823
Δ 38° 58′ 43″ (LT)	Δ 20° 37′ 24″ (RT)	Δ 47° 03′ 57″ (LT)
R 62.000	R 22.000	R 47.000
L 42.179	L 7.919	L 38.608
T 21.942	T 4.003	T 20.468



NOTE:
SEE SHEET 2o01 FOR CURVE RETURN STATION/OFFSET & COORDINATES.

NOTE:
IT IS IMPERATIVE THAT RADII ARE CONSTRUCTED AS DETAILED. DETAILS REFLECT THE MINIMUM APPROPRIATE VEHICLE TURNING PATHS.

ROADWAY CURVE DATA

ROAD	COL-6	COL-6	MONTLAKE DR
PI	6+305.000	6+349.479	8+080.839
N	177,961.0642	178,001.8132	178,057.7642
E	784,425.7694	784,407.1122	784321.6038
Δ	19°36′43″(LT)	29°22′06″(RT)	38°07′35″
R	100.000	100.000	100.000
L	34.229	51.257	66.543
T	17.284	26.205	34.556
E	1.483	3.376	5.802
L.C.	34.062	50.698	65.322
SE	4.0% LT.	4.0% RT	4.0% RT
DESIGN SPEED	50km/h	50km/h	50km/h
TRANS. LENGTH	32	32	32

CURVE RB3SEEP-1	CURVE RB3SEEP-2	CURVE RB3SEEP-3	CURVE RB3SEEP-4
PI 111+975.755	PI 111+992.790	PI 112+003.550	PI 112+024.422
N 178,007.5278	N 178,024.4996	N 178,031.6880	N 178,042.8783
E 784,412.9365	E 784,411.4322	E 784,422.8925	E 784,440.5352
Δ 4° 13′ 23″ (RT)	Δ 62° 58′ 01″ (RT)	Δ 0° 17′ 16″ (LT)	Δ 37° 09′ 11″ (RT)
R 96.700	R 22.000	R 22.000	R 62.000
L 7.128	L 24.178	L 0.110	L 40.204
T 3.565	T 13.473	T 0.055	T 20.837

CURVE RB3NEEP-1	CURVE RB3NEEP-2
PI 112+000.447	PI 112+024.442
N 178,068.8050	N 178,052.7441
E 784,423.4707	E 784,441.3580
Δ 16° 33′ 55″ (RT)	Δ 37° 09′ 11″ (LT)
R 22.000	R 62.000
L 6.361	L 40.204
T 3.203	T 20.837

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOMETRIC LAYOUT
COLLECTOR 6 & RAMP A @
MONTLAKE DRIVE & COLLECTOR 3

ROUNDABOUT THREE DETAILS

SCALE: 1:500

9/30/2015
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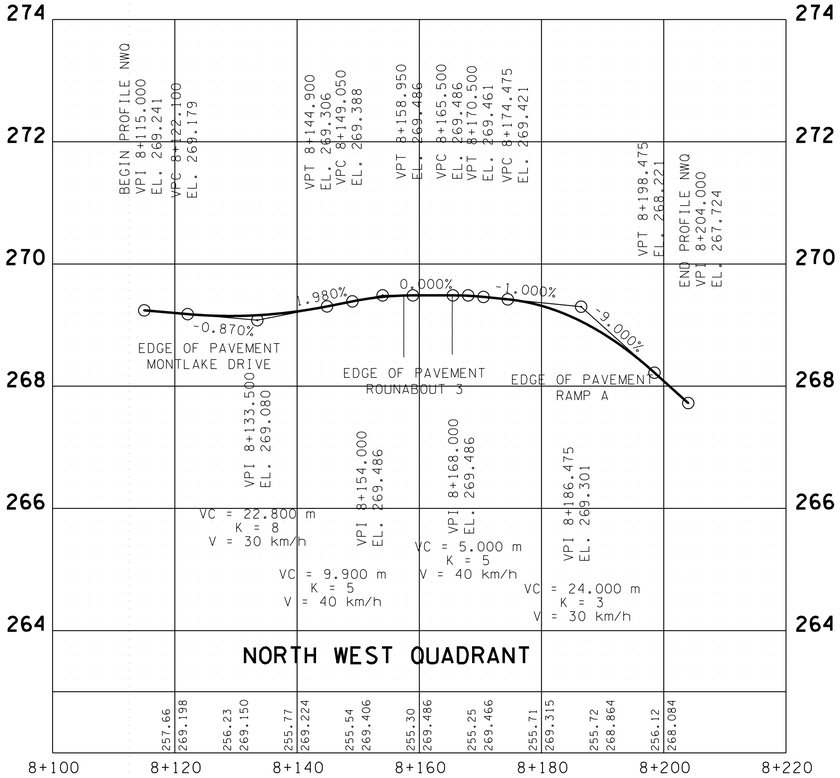
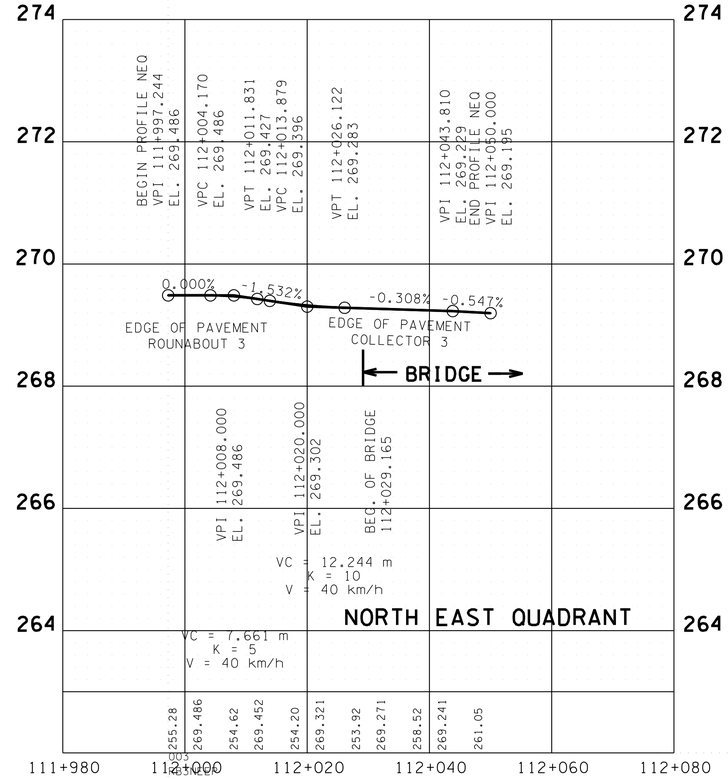
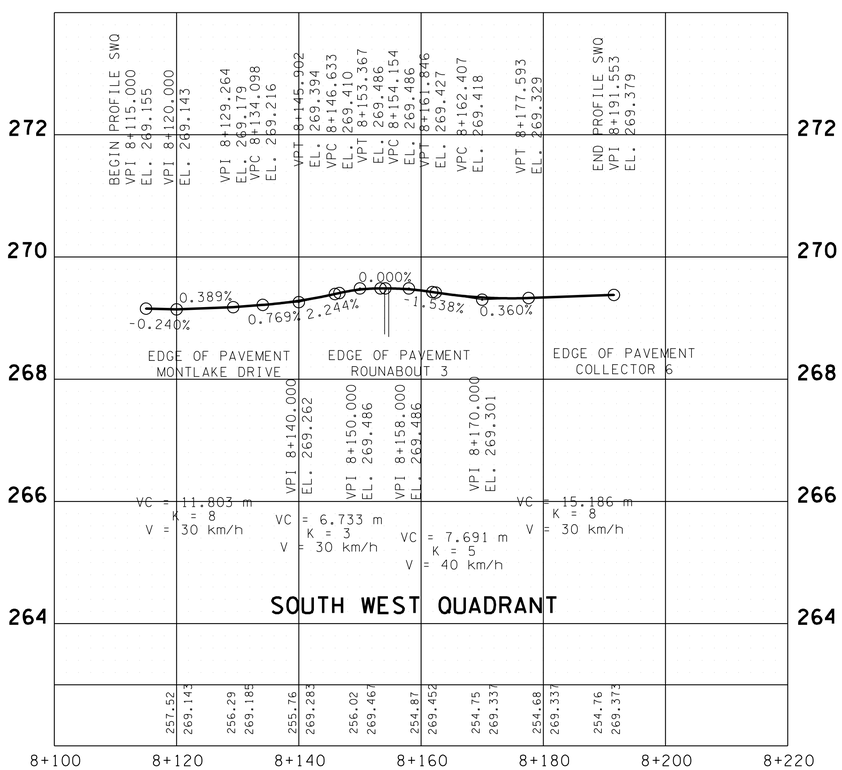
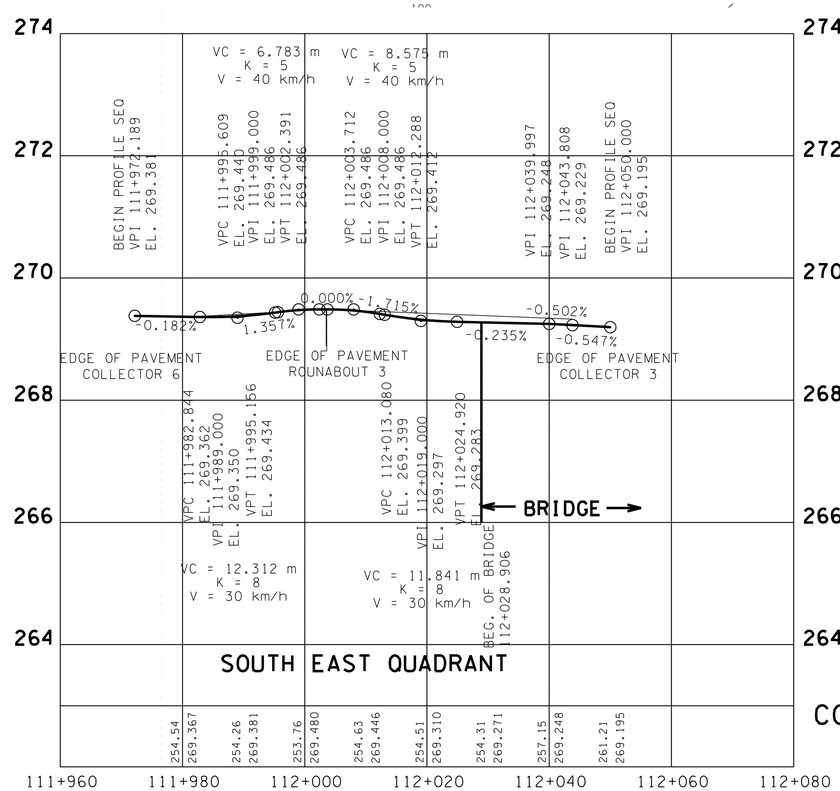
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o13









SEALED BY

RADIUS PROFILES AT EDGE OF ROADWAYS COLLECTOR 6 & RAMP A @ MONTLAKE DRIVE & COLLECTOR 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROUNDABOUT THREE DETAILS

SCALE: 1:500 HORIZ.
1:50 VERT.

9/30/2015
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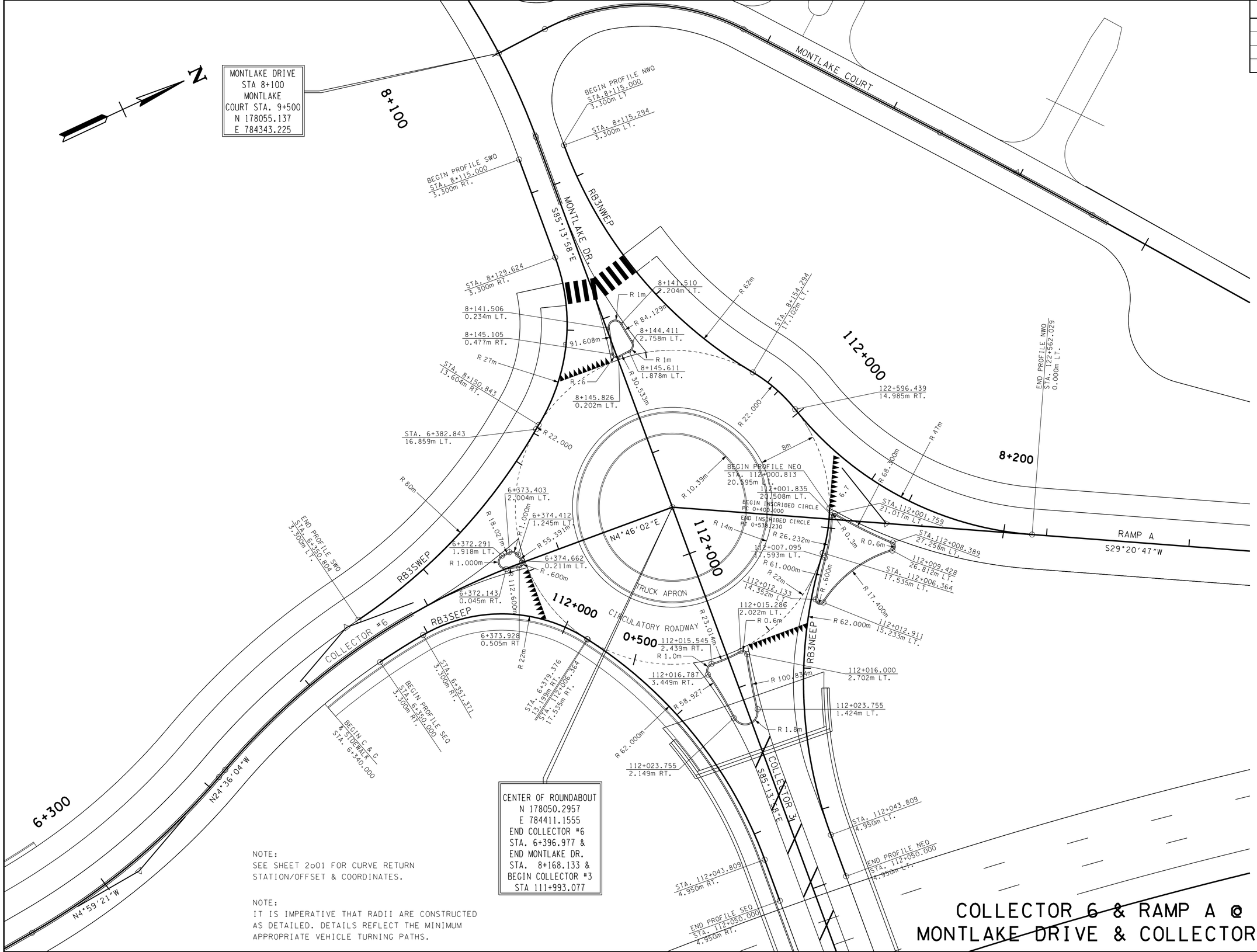
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o14



CENTER OF ROUNDABOUT
N 178050.2957
E 784411.1555
END COLLECTOR #6
STA. 6+396.977 &
END MONTLAKE DR.
STA. 8+168.133 &
BEGIN COLLECTOR #3
STA 111+993.077

NOTE:
SEE SHEET 2o01 FOR CURVE RETURN
STATION/OFFSET & COORDINATES.

NOTE:
IT IS IMPERATIVE THAT RADII ARE CONSTRUCTED
AS DETAILED. DETAILS REFLECT THE MINIMUM
APPROPRIATE VEHICLE TURNING PATHS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

COLLECTOR 6 & RAMP A @ MONTLAKE DRIVE & COLLECTOR 3

ROUNDABOUT THREE DETAILS

SCALE: 1:250

9/30/2015
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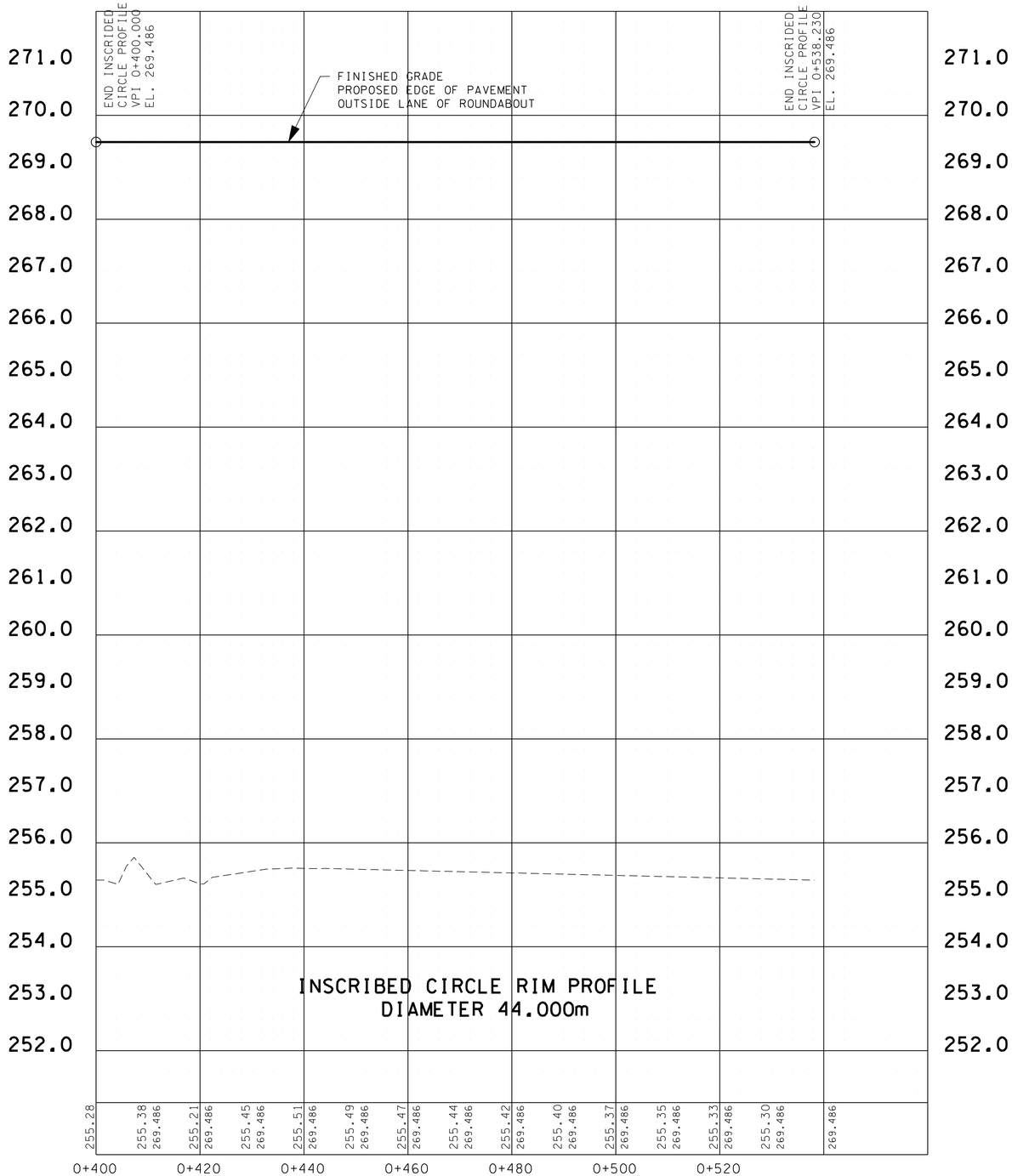
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o15



QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
303-01	MINERAL AGGERGATE	m3	
701M03	100mm CONCRETE MEDIAN PAVEMENT(SPLITER) ISLAND	m3	10.830
702M01	CONCRETE DETACHED CURB	m3	4.793
702M03	150mm NON-MOUNTABLE CONCRETE CURB AND GUTTER	m3	27.877
702M03	100mm SLOPING MOUNTABLE CURB & GUTTER	m3	15.273
	TRUCK APRON (CONC.)	m3	51.024
203M07	CENTER ISLAND	m2	304.527
	CIRCULATORY ASPH. ROADWAY	m2	904.32
TOTAL			

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

COLLECTOR 6 & RAMP A @
MONTLAKE DRIVE & COLLECTOR 3

ROUNDABOUT
THREE
DETAILS

SCALE: 1:500 HORIZ.
1:50 VERT.

9/30/2015
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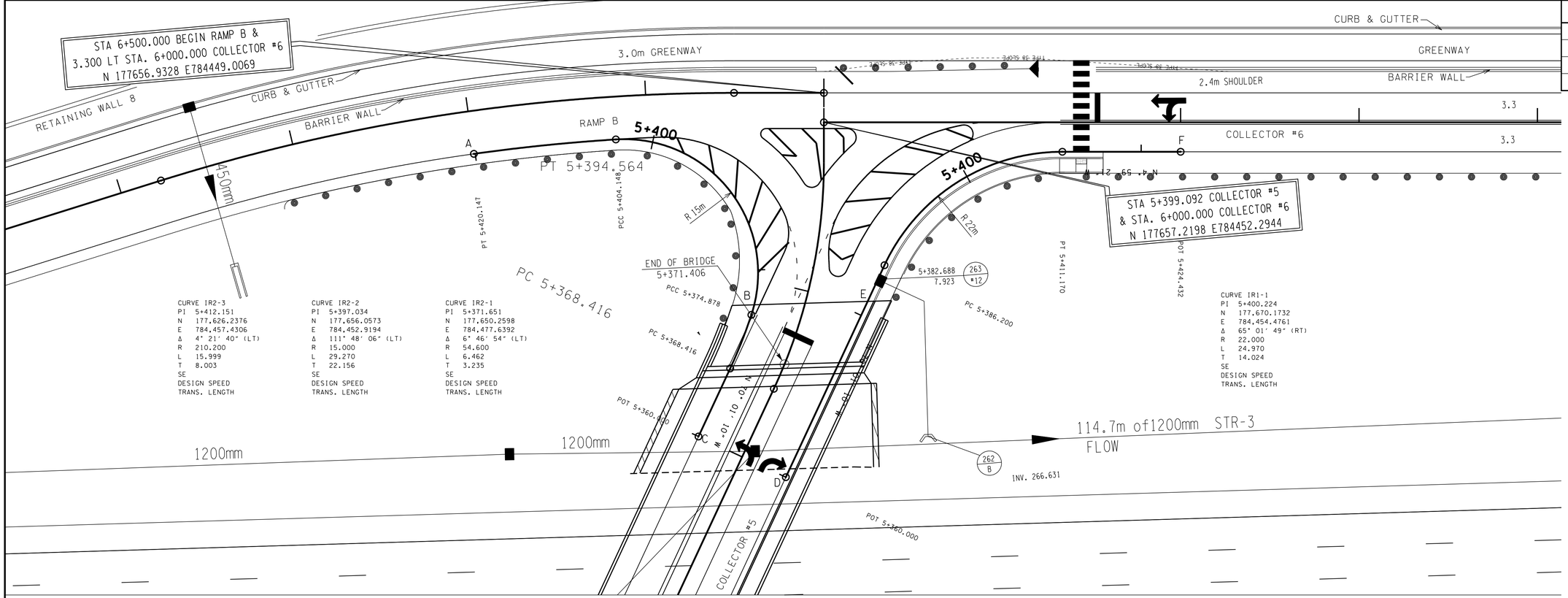
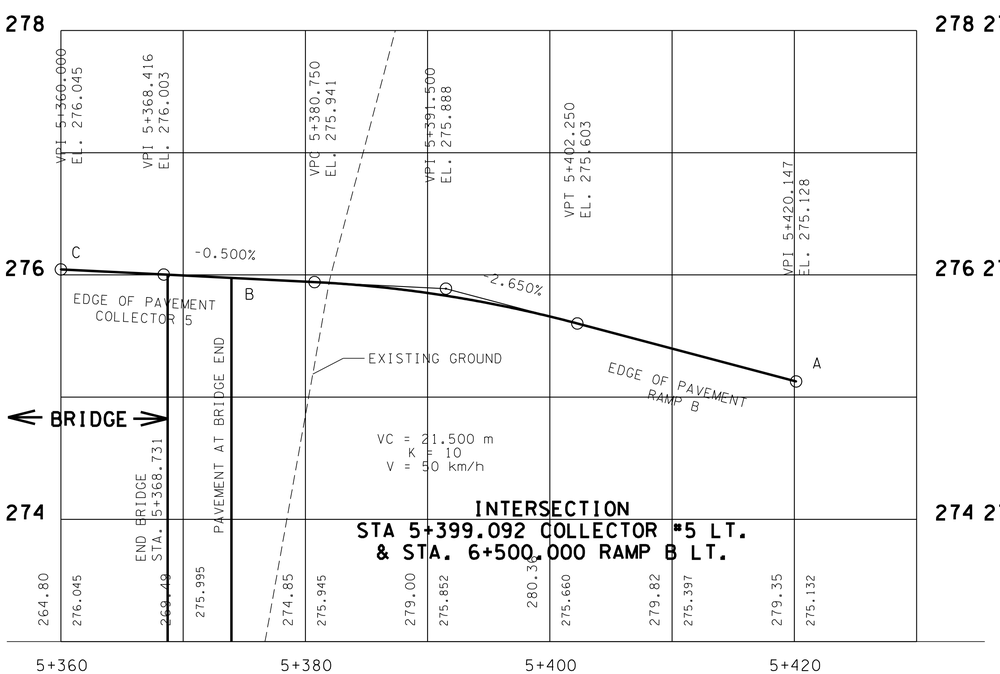
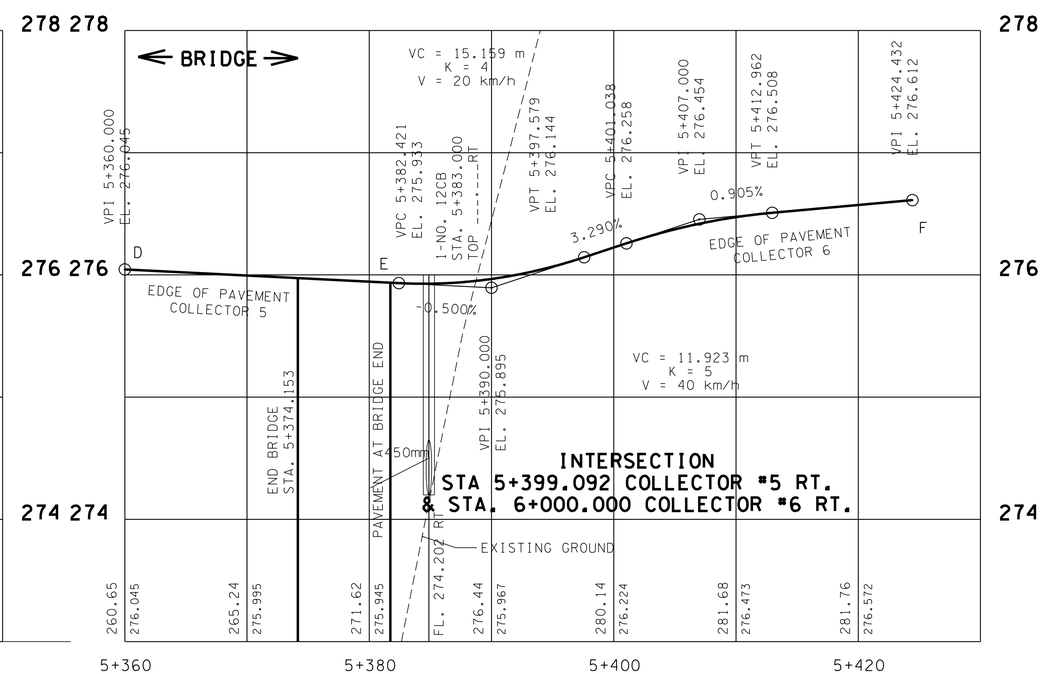
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	2o16







INTERSECTION
COLLECTOR #5, COLLECTOR #6.
& RAMP B AT BRIDGE

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DEPARTMENT OF TRANSPORTATION

INTER-SECTION DETAILS

SCALE: 1:250

9/30/2015
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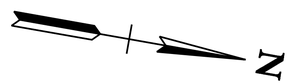
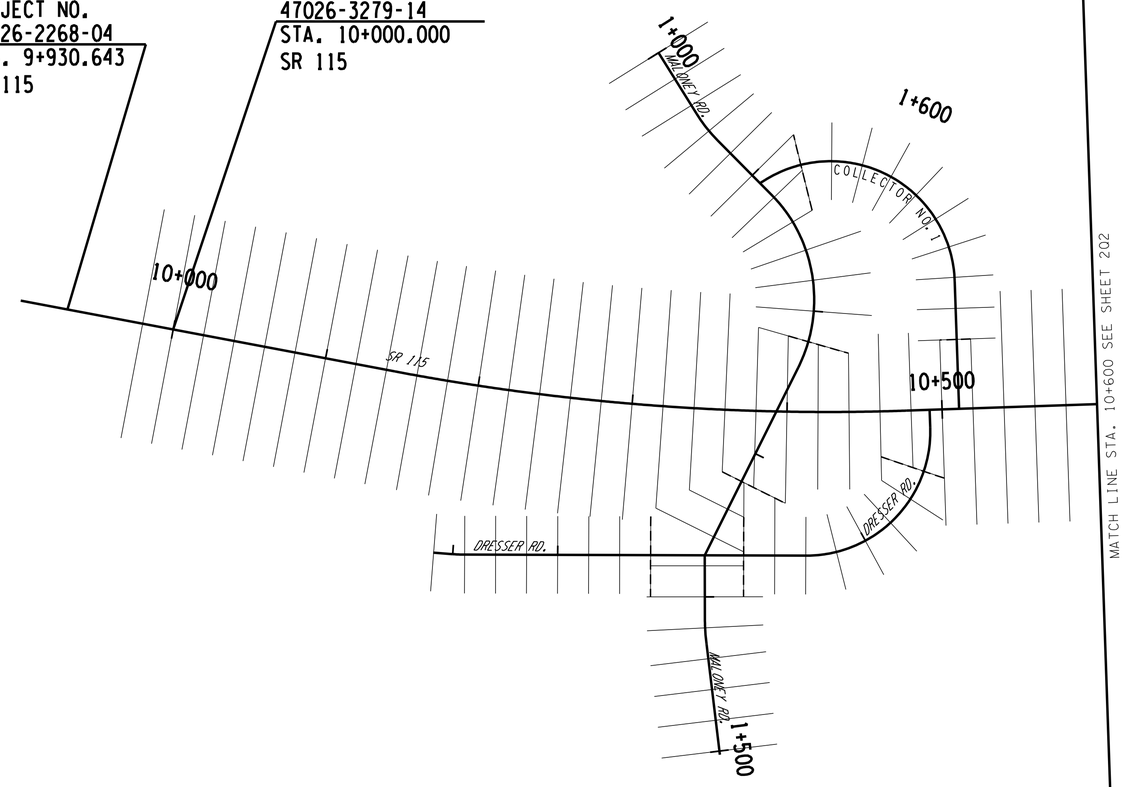
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015		201

FILE NO.



BEGIN R.O.W.
PROJECT NO.
47026-2268-04
STA. 9+930.643
SR 115

BEGIN CONST.
PROJECT NO.
47026-3279-14
STA. 10+000.000
SR 115



MATCH LINE STA. 10+600 SEE SHEET 202

9/30/2015
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Survey & Design Division

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

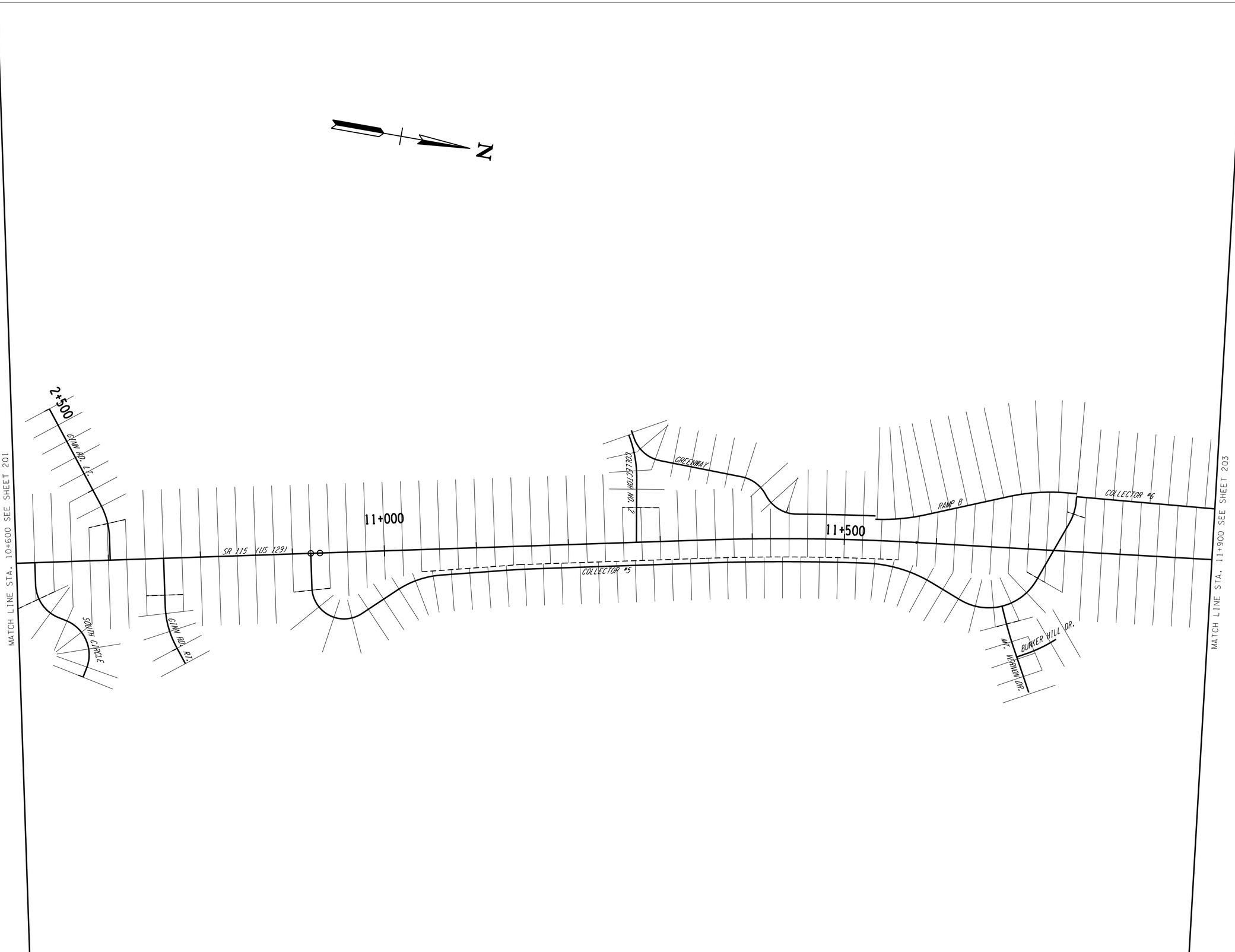
METHOD OF CROSS SECTIONS

STA.10+000 - STA.10+600

SCALE: 1:2000

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015		202

FILE NO. ---



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

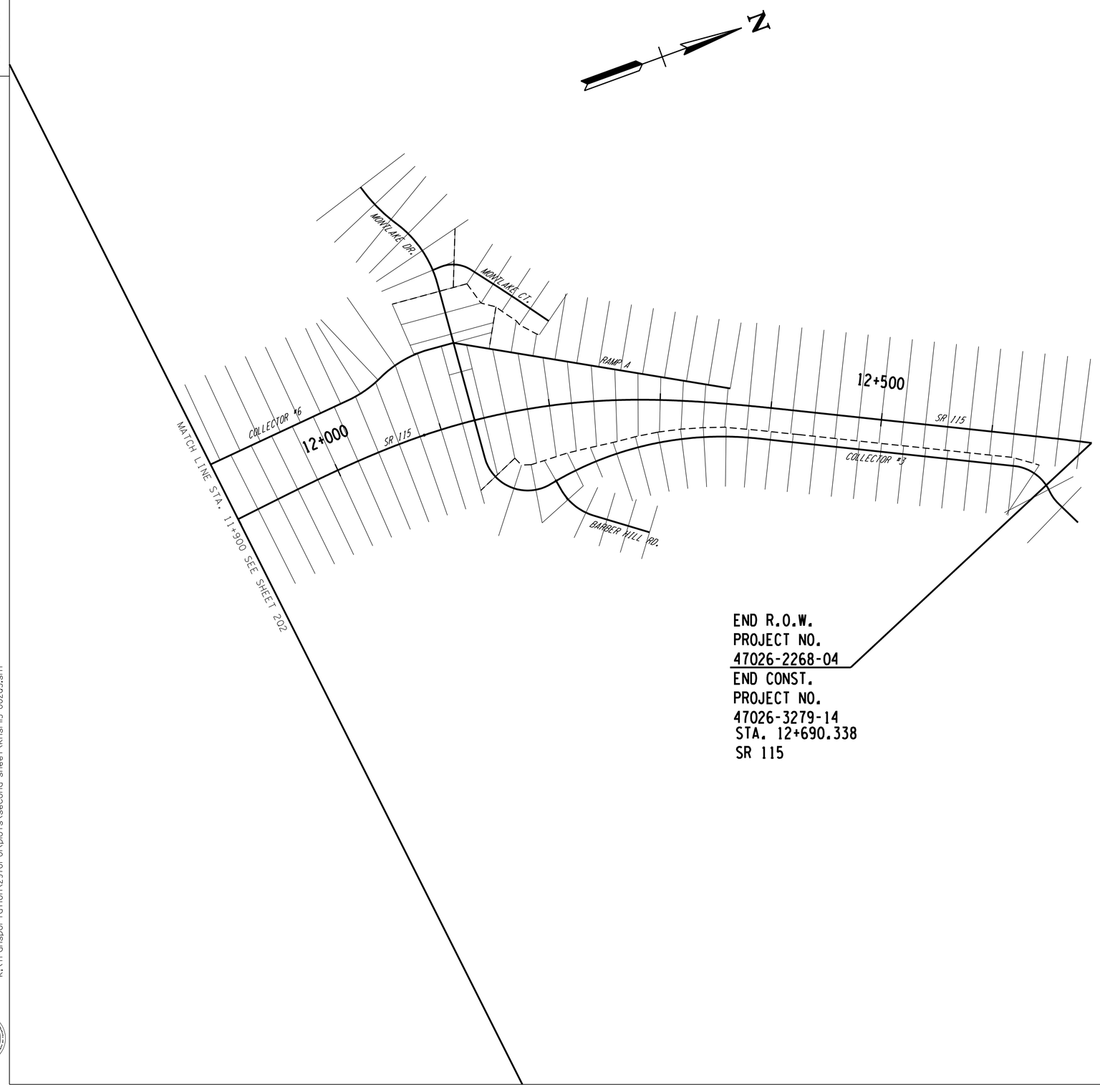
METHOD OF CROSS SECTIONS

STA.10+600 - STA.11+900

SCALE: 1:2000

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015		203

FILE NO. ---



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Survey & Design Division

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

METHOD OF CROSS SECTIONS

STA.11+900 - STA.12+687.506

SCALE: 1:2000

FILE NO.

UTILITY OWNERS

GAS
KNOXVILLE UTILITIES BOARD (KUB)
P. O. BOX 59017 (37950-9017)
4505 MIDDLEBROOK PIKE
KNOXVILLE, TN 37921-5599
PHONE: (865) 558-2737
FAX: (865) 558-2436
LES BEAVER cell (865) 803-2698
email Les.Beaver@kub.org
TRACY HUBBS (865) 558-2563 cell (865) 660-6733
email Tracy.Hubbs@kub.org

ELECTRIC
KNOXVILLE UTILITIES BOARD (KUB)
P. O. BOX 59017 (37950-9017)
4505 MIDDLEBROOK PIKE
KNOXVILLE, TN 37921-5599
PHONE: (865) 558-2737
FAX: (865) 558-2436
LES BEAVER cell (865) 803-2698
email Les.Beaver@kub.org
TRACY HUBBS (865) 558-2563 cell (865) 660-6733
email Tracy.Hubbs@kub.org

WATER
KNOXVILLE UTILITIES BOARD (KUB)
P. O. BOX 59017 (37950-9017)
4505 MIDDLEBROOK PIKE
KNOXVILLE, TN 37921-5599
PHONE: (865) 558-2737
FAX: (865) 558-2436
LES BEAVER cell (865) 803-2698
email Les.Beaver@kub.org
KURT STAFFORD (865) 558-2133 cell (865) 640-1469
eamil Kurt.Stafford@kub.org

SEWER
KNOXVILLE UTILITIES BOARD (KUB)
P. O. BOX 59017 (37950-9017)
4505 MIDDLEBROOK PIKE
KNOXVILLE, TN 37921-5599
PHONE: (865) 558-2737
FAX: (865) 558-2436
LES BEAVER cell (865) 803-2698
email Les.Beaver@kub.org
KURT STAFFORD (865) 558-2133 cell (865) 640-1469
eamil Kurt.Stafford@kub.org

CABLE TV
COMCAST
AERIAL CABLE TELEVISION (NO UNDERGROUND)
1645 DOWNTOWN WEST BLVD.
KNOXVILLE, TN 37919
ATTN: MR. ANSIL SUFFRIDGE
PHONE: (865) 637-5411

TELEPHONE
AT&T
9733 PARKSIDE DRIVE
KNOXVILLE, TN 37922
PHONE: (865) 539-8579
FAX: (865) 470-8519
VAUGHN JONES cell (865) 789-2324
email vj0702@att.com

R.O.W. NOTES

IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT, BE REMOVED THEREFROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OF IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF THE RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, HEADQUARTERS SURVEY AND DESIGN OFFICE IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON "RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY", STANDARD DRAWING RPM-R-1 AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT

WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED NEW DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.

WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

TRACT REMAINDERS NOT HAVING AN EXISTING DRIVEWAY WILL BE PROVIDED ONE 15 METER OPENING IN THE ACCESS CONTROL FENCE AND A DRIVEWAY WILL BE CONSTRUCTED UNLESS ACCESS IS PROVIDED FROM AN INTERSECTING ROAD OR BASED ON PHYSICAL CONDITIONS AND/OR CONFLICTS WITH OTHER DESIGN CONSIDERATIONS WHICH PREVENT AN ACCESS OPENING. PAVING OF THESE NEW DRIVEWAYS WILL BE IN ACCORDANCE TO THE 7 PERCENT CRITERIA PREVIOUSLY MENTIONED FOR EXISTING DRIVEWAYS.

NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THEN 7 PERCENT WILL BE COVERED WITH BASE STONE.

ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FILED ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OF FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

9/30/2015
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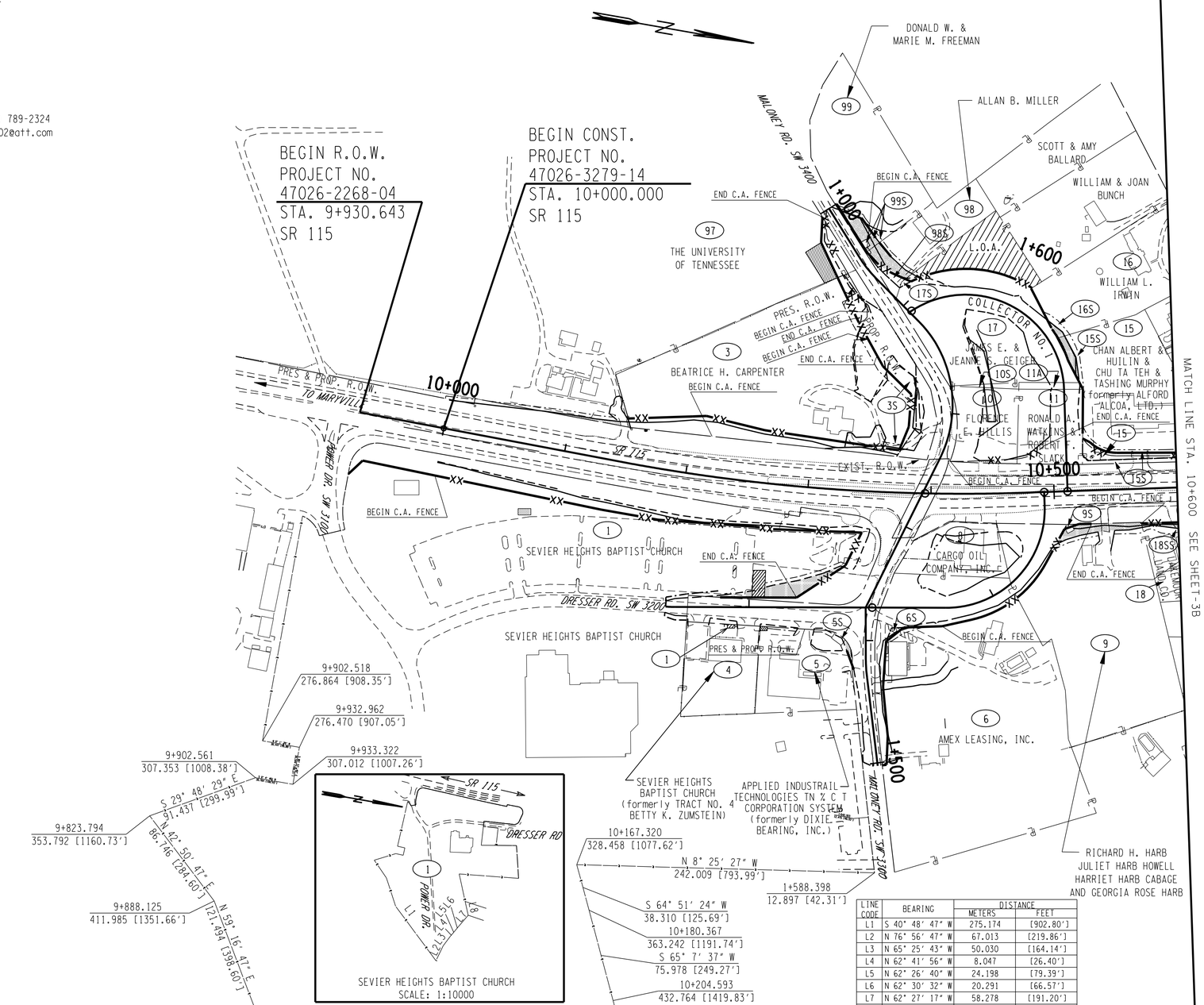
Survey & Design Division

LEGEND

- (30) TRACT NUMBER
- PRES R.O.W.
- TRACT OUTLINE
- BUILDING
- PROPOSED R.O.W.
- C.A. FENCE
- SLOPE EASEMENT
- CONSTRUCTION EASEMENT
- DRAINAGE EASEMENT
- PRES & PROP R.O.W.



LINE CODE	BEARING	DISTANCE METERS	DISTANCE FEET
L1	S 40° 48' 47" W	275.174	[902.80']
L2	N 76° 56' 47" W	67.013	[219.86']
L3	N 65° 25' 43" W	50.030	[164.14']
L4	N 62° 41' 56" W	8.047	[26.40']
L5	N 62° 26' 40" W	24.198	[79.39']
L6	N 62° 30' 32" W	20.291	[66.57']
L7	N 62° 27' 17" W	58.278	[191.20']
L8	S 64° 54' 57" W	57.199	[187.66']

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	3
CONST.	2016	47026-3279-14	3

REV. 04-13-2001 REVISED ROW, DRAINAGE, SLOPE AND CONST EASEMENTS TRACTS 17 & 98. PROVIDED A 15m OPENING IN C.A. FENCE AT TRACT 3.
REV. 28-FEB-2003: IDENTIFY LOSS OF ACCESS FOR TRACT 17. REVISED BEGINNING OF ACCESS FENCE. IMPROVED LEGEND. REVISED C.A. FENCE FOR TRACT 1. ADDED TRACTS 10S & 11A. REVISED SLOPE, CONST & DRAINAGE EASEMENTS FOR TRACTS 3, 4 & 5. REVISED R.O.W. DRESSER ROAD.
REV. 15-MAR-2004: ADDED DRAINAGE EASEMENT TRACT 4S. ADDED DIRVEWAYS TRACTS 1 AND 99.
REV. 24-SEP-2004: REVISED CONST. EASEMENT TRACT 15.
REV. 22-AUG.-2014: REVISED BEGINNING OF PROJECT AND THE LOCATIONS OF ROW LINES ADDED "S" TRACTS.
REV. 7-NOV.-2014: REVISED BEGINNING OF PROJECT AND THE LOCATIONS OF ROW LINES ADDED TRACTS 3S, 5S, 6S, 9S, 15S, 16S, 17S, 18SS 98S AND 99S. MADE TRACTS 98 & 98S LOSS OF ACCESS.
REV. 16-JAN.-2014: TRACT 3 DENOTED RIGHT OF WAY LINE BETWEEN STA.1+060.000 AND 1+081.807 AS CONTROLLED ACCESS. TRACT 1 AND 3S REVISED PROPOSED R.O.W. SLOPE EASEMENT AND CONSTRUCTION EASEMENT.
REV. 24-APR.2015: ADDED SLOPE AND CONST. EASEMENT TRACT 97. TRACT 98S, ADDED CONSTRUCTION EASEMENT FOR REMOVAL OF STRUCTURES.
REV. 17-SEP-2015: REVISED UTILITY OWNERS INFORMATION. ADDED BEARINGS AND DISTANCES ON TRACT 1 BOUNDARY. REMOVED LOSS OF ACCESS AND CONSTRUCTION EASEMENT FOR REMOVAL OF STRUCTURES TRACT 98S.

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.10+000 - STA.10+600

SCALE: 1:2000

FILE NO. ---

R.O.W. ACQUISITION TABLE

TRACT NO	PROPERTY OWNERS	COUNTY RECORDS				AREA TO BE ACQUIRED HECTARES (ACRES)			AREA REMAINING HECTARES (ACRES)		EASEMENT SQ. M (SQ. FT.)			TOTAL AREA HECTARES (ACRES)			ORIGIN
		TAX MAP NO.	PARCEL NO.	DEED BK.	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE (2)	CONST (3)	LEFT	RIGHT	TOTAL	
1	SEVIER HEIGHTS BAPTIST CHURCH	135 135-G	10.01-.04 10.06-.15 10.20 ,2	2135 2205 20040713	922 507 0003636		0.9463 (2.338)	0.9463 (2.338)		18.8498 (46.579)	238.9 (2,571)	0.0657 HA. (0.162 AC.)	0.0536 HA. (0.132 AC.)		19.7961 (48.917)	19.7961 (48.917)	C
2	NOT USED	-	-	-	-												-
3	BEATRICE H. CARPENTER	135	10	1997	689	0.1397 (0.345)		0.1397 (0.345)	2.3318 (5.762)		0.1058 HA. (0.261 AC.)	165.9 (1,786)	405.3 (4,363)	2.4715 (6.107)		2.4715 (6.107)	C
3S	BEATRICE H. CARPENTER	135	10.26	20040302	0081756	0.4187 (1.035)		0.4187 (1.035)	1.9131 (4.727)				0.0558 HA. (0.138 AC.)	2.3318 (5.762)		2.3318 (5.762)	
4	BETTY K. ZUMSTEIN	135	10.06	2177	739				0.4456 (1.101)				6.0 (65)	0.4456 (1.101)		0.4456 (1.101)	D
5	DIXIE BEARING, INC.	135	10.05	2012	904				0.5099 (1.260)		19.4 (209)	3.0 (32)	85.6 (921)	0.5099 (1.260)		0.5099 (1.260)	D
5S	APPLIED INDUSTRAIL TECHNOLOGIES TN % C T CORPORATION SYSTEM	135	10.05	20030729	0011300				0.5099 (1.260)		58.1 (625)	54.0 (581)	112.2 (1,208)	0.5099 (1.260)		0.5099 (1.260)	
6	AMEX LEASING, INC.	A. 135-G	9,7	2035 2226	658 257- 276	0.2426 (0.599)	0.2296 (0.567)	0.4722 (1.167)	2.7469 (6.788)	--- (0 SF)				2.9895 (7.387)	0.2296 (0.567)	3.2191 (7.955)	D
6S	AMEX LEASING, INC.			20041105	0038520	53.2 M2 (573 SF)		53.2 S.F. (573 SF)	2.7416 (6.775)			5.7 (61)	94.3 (1,015)	2.7469 (6.788)		2.7469	D
7	NOT USED	-	-	-	-												-
8	CARGO OIL COMPANY, INC.	A. 135-G	9.01	1826	857	0.3177 (0.785)		0.3177 (0.785)	--- (0 SF) (4)					0.3177 (0.785)		0.3177 (0.785)	C
9	RICHARD H. HARB, JULIET HARB HOWELL, HARRIET HARB CABAGE AND GEORGIA HARB	A. 135-G	10,11	1918	151		0.1944 (0.480)	0.1944 (0.480)		1.5834 (3.913)		167.2 (1,800)	141.9 (1,527)		1.7778 (4.393)	1.7778 (4.393)	C
9S	RICHARD H. HARB, JULIET HARB HOWELL, AND HARRIET HARB CABAGE	A. 135-G	11	20100319	005944		17.4 M2 (187 SF)	17.4 M2 (187 SF)		1.5817 (3.908)	23.2 (250)	309.0 (3,326)	182.5 (1,964)		1.5834 (3.913)	1.5834 (3.913)	C
10	FLORENCE E. HILLIS	B.135-H	8	1817	309	0.3133 (0.774)		0.3133 (0.774)	--- (0 SF) (4)					0.3133 (0.774)		0.3133 (0.774)	C
10S	FLORENCE E. HILLIS	B.135-H	8	1817	309	154.0 M2 (1,658 SF)	0.5 M2 (5 SF)	154.5 M2 (1,663 SF)	--- (0 SF) (4)	0.0000 (0 SF)				154.0 M2 (1,658 SF)	0.5 M2 (5 SF)	154.5 M2 (1,663 SF)	C
11	RONALD A. WATKINS & ROBERT F. SLACK	B.135-H	8.02	1828	736	0.3213 (0.794)		0.3213 (0.794)	--- (0 SF) (4)					0.3213 (0.794)		0.3213 (0.794)	D
11A	RONALD A. WATKINS	B.135-H	8.03	2281 1827	1127 477	76.3 M2 (821 SF)	200.0 M2 (2,153 SF)	276.3 M2 (2,974 SF)	--- (0 SF) (4)	0.0000 (0 SF)				76.3 M2 (821 SF)	200.0 M2 (2,153 SF)	276.3 M2 (2,974 SF)	C
12	MONICA DAVIS	D.122-P	18.02	20070711	0003259	12.8 M2 (138 SF)		12.8 M2 (138 SF)	0.4075 (1.007)			128.8 (1,386)	171.9 (1,850)	0.4088 (1.010)		0.4088 (1.010)	C
13	NOT USED	-	-	-	-												-
14	REX A. & DEBORAH S. WILSON	B.135-H	6	1614	317		80.7 M2 (869 SF)	80.7 M2 (869 SF)		0.2771 (0.685)		132.5 (1,426)	136.5 (1,469)		0.2852 (0.705)	0.2852 (0.705)	C
15	ALFORD - ALCOA, LTD.	B.135-H	7	1863	748	362.8 M2 (3,905 SF)		362.8 M2 (3,905 SF)	1.0127 (2.502)			158.1 (1,702)	408.0 (7) (4,392)	1.0490 (2.592)		1.0490 (2.592)	C
													6.7 (3) (72)				
15S	CHAN ALBERT & HUILIN & CHU TA TEH & TASHING MURPHY	B.135-H	7	20060317	0077911	0.0610 (0.151)		0.0610 (0.151)	0.9517 (2.352)				297.8 (7) (3,205)	1.0127 (2.502)		1.0127 (2.502)	
												37.6 (405)	170.1 (3) (1,831)				
16	WILLIAM L. IRWIN	B.135-H	5.01	1693	613-624	4.5 M2 (48 SF)		4.5 M2 (48 SF)	0.7928 (1.959)			60.5 (651)	69.9 (752)	0.7932 (1.960)		0.7932 (1.960)	D
16S	WILLIAM L. IRWIN	B.135-H	5.01	1693	613-624				0.7928 (1.959)			12.6 (136)	72.1 (776)	0.7928 (1.959)		0.7928 (1.959)	D
17	JAMES E. & JEANNE S. GEIGER	B.135-H	8.01, 9	1634	560	0.9082 (2.244)	0.0673 (0.166)	0.9755 (2.411)	0.2725 (0.673) (5)	0.0000 (0 SF)				1.1807 (2.918)	0.0673 (0.166)	1.2480 (3.084)	C
17S	JAMES E. & JEANNE S. GEIGER					25.7 M2 (277 SF)		25.7 M2 (277 SF)	0.2699 (0.667) (5)			20.9 (225)	35.0 (377)	0.2725 (0.673)		0.2725 (0.673)	
18	LAKEMOOR LAND CO.	A.135-G	12.01	1929	24					0.2533 (0.626)		63.2 (680)	82.2 (885)		0.2533 (0.626)	0.2533 (0.626)	D
18S	LAKEMOOR LAND CO.	A.135-G	12.01	1929	24		13.3 M2 (143 SF)	13.3 M2 (143 SF)		0.2520 (0.623)		14.3 (154)	84.1 (905)		0.2533 (0.626)	0.2533 (0.626)	D
18SS	LAKEMOOR LAND CO.	A.135-G	12.01	1929	24					0.2520 (0.623)		160.8 (1,731)	175.2 (1,886)		0.2520 (0.623)	0.2520 (0.623)	D
19	BETTY HARB AND RAMSEY J. & MARGARET ANN HARB	A.135-G	12	1196	1		0.2876 (0.711)	0.2876 (0.711)		0.0000 (0 SF) (4)					0.2876 (0.711)	0.2876 (0.711)	D

ORIGIN LEGEND

D = DEED
TM = TAX MAP
C = CALCULATED

(1) FOR CONSTRUCTION OF DRAINAGE DITCH

(2) FOR CONSTRUCTION OF SLOPE

(3) FOR CONSTRUCTION OF EROSION CONTROL AND FOR WORKING ROOM

(4) TOTAL TAKE

(5) LOSS OF ACCESS

(6) CONSTRUCTION EASEMENT FOR REMOVEAL OF STRUCTURES

(7) CONSTRUCTION EASEMENT FOR BUILDING THE RETAINING WALL IS TO BE LIMITED TO ONE YEAR.

(8) ENCUMBERED BY TVA FLOWAGE EASEMENT

(9) TVA FLOWAGE EASEMENT BELOW BACK WATER ELEVATION 247.650± THIS EASEMENT AFFECTS TRACTS 88, 91, 91S, AND 93.

(10) CONSTRUCTION EASEMENT FOR PIPE REMOVAL AND INSTALLATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	3A
CONST.	2016	47026-3279-14	3A

REV. 04-13-2001 REVISED AREAS FOR TRACTS 31 & 35
REV. 03-01-2002: REVISED AREAS OF TRACT 17 AND LABELED REMAINDER AS LOSS OF ACCESS.
REV.28-FEB-2003: REVISED TABLE CONTENTS FROM TRACTS 1-36 TO 1-25. ADDED TRACT 10S, 11A,18S, AND 25. REVISED R.O.W. SLOPE, AND CONST. EASEMENTS TRACTS 1,19 AND 22. REVISED SLOPE, CONST, AND DRAINAGE EASEMENT TRACTS 3 AND 5. REVISED CONST. AND DRAINAGE EASEMENT TRACT 4. REVISED SLOPE AND CONST. EASEMENT. TRACTS 15 AND 20. REVISED R.O.W. TRACT 17. RENAMED TRACT 24 TO TRACT 8024
REV. 15-MAR-2004: ADDED NOTES 6, 7 AND 8. RESTORED TRACT 24. ADDED TRACT 4S. MOVED TRACT 24, 8024 AND 25 DATA TO SHEET 3C.
REV. 24-SEP-2004: REMOVED NOTE # 8. REVISED CONSTRUCTION EASEMENTS ON TRACT 15.
REV. 22-AUG.-2014: REVISED SHEET TO BE TRACTS 1-19. REVISED AREA TO BE ACQUIRED, DRAINAGE, SLOPE AND CONST. EASEMENTS TRACT NOS. 1, 3, 5, 6, 9, 12, 15, 16, 17, AND 18.
REV. 7-NOV.-2014: REVISED AREA TO BE ACQUIRED, DRAINAGE, SLOPE AND CONST. EASEMENTS TRACT NO. 1. ADDED TRACTS 3S, 5S, 6S, 9S, 15S, 16S, 17S AND 18SS.
REV. 16-JAN.-2015: TRACT 1 AND 3S AREA TO BE ACQUIRED, PROPOSED R.O.W. SLOPE EASEMENT AND CONSTRUCTION EASEMENT.
REV. 17-SEP-2015: REVISED SLOPE AND CONST EASEMENTS TRACT 17S.

TENNESSEE METRIC D.O.T.

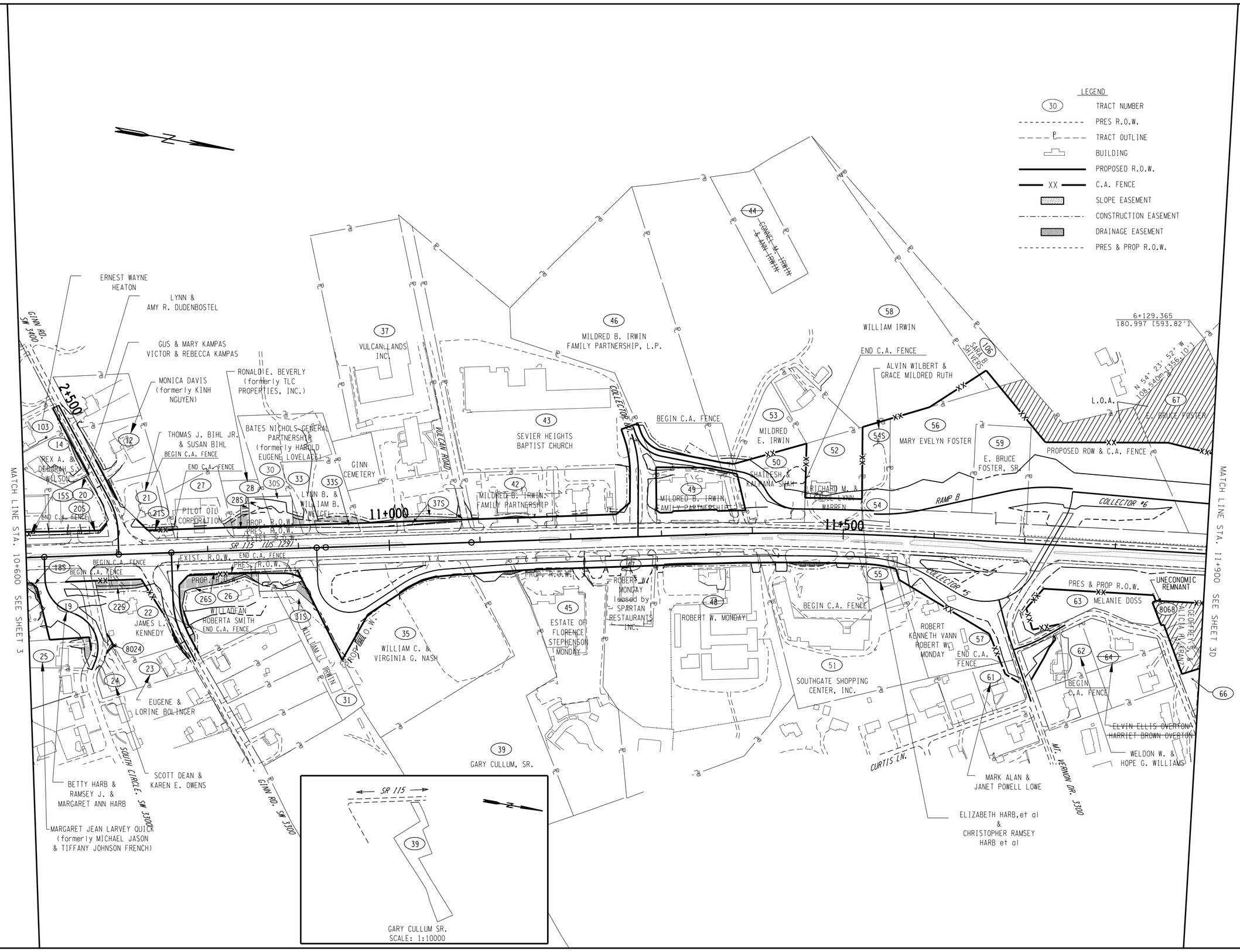
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. ACQUISITION TABLE

TRACT NO. 1 - 19

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	3B
CONST.	2016	47026-3279-14	3B

REV. 04-13-2001 REMOVED ALIGNMENT OF VULCAN ROAD, ASSOCIATED R.O.W. AND BRIDGE @ STA.11+090.542. REVISED ALIGNMENT OF COLLECTOR #2 AND ASSOCIATED R.O.W.
REV. 05-15-2001: ADDED TRACT 66 & C.A. FENCE ALONG BUNKER HILL ROAD. REVISED SLOPE LIMITS TRACT 68.
REV. 28-FEB-2003: ADDED LEGEND. ADDED ALIGNMENTS FOR SOUTH CIRCLE, COLLECTOR NO.5, NO.6, RAMP B & MT. VERNON RD. REVISED R.O.W. ADDED TRACTS 25,53,58, & 61. RENAMED TRACT 24 TO 8024
REV. 15-MAR-2004: REVISED PROP. R.O.W. TRACTS 43,44,46,49,50,52,54,56 AND 57. ADDED TRACTS 18S AND 54S. LABELED TRACT 8068 AS UNECONOMIC REMNANT. RESTORED TRACT 24. REVISED CONST EASEMENT TRACT 27 AND 42 FOR REMOVAL OF STRUCTURES.
REV. 28-JUL-2004: REMOVED C.A. FENCE FROM TRACT 61. ADDED BEARINGS, DISTANCES, STATION AND OFFSET TO TRACT 67.
REV. 24-SEP-2004: REVISED CONST. EASEMENT TRACTS 27, 42 AND 46
REV. 31-MAR-2006: REMOVED CONSTRUCTION EASEMENT FOR REMOVAL OF STRUCTURES TRACT 42.
REV. 6-AUG-2008: ADJUSTED PROPOSED RIGHT OF WAY TRACT 62, END OF BUNKER HILL ROAD FROM 9+351.00 TO 9+347.00.
REV. 22-AUG.-2014: REVISED LOCATION OF ROW LINES AND ADDED "S" TRACTS.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMENT. REVISED R.O.W. TRACT 42. ADDED TRACTS 15S, 18SS, 20S, 21S, 22S, 26S, 28S, 30S, 31S AND 33S. ADDED LAND HOOK TRACTS 37 AND 42.
REV. 16-JAN.-2015: TRACT 28S ADDED DRAINAGE EASEMENT. REVISED SLOPE AND CONSTRUCTION EASEMENT. REVISED EXISTING STREAM LOCATION.
REV. 24-APR-2015: REMOVED CONST. EASEMENT FOR REMOVAL OF STRUCTURES TRACT 27. TRACT 21S, REVISED CONST. EASEMENT TO MISS SIGN.
REV. 27-MAY-2015: DELETED TRACT 44. ADDED TRACT 106. ADJUSTED PROPERTY LINES AND REVISED PROPOSED RIGHT-OF-WAY TRACTS 46, 49 AND 58.
REV. 17-SEP-2015: UPDATED TOPO, REVISED PROP R.O.W. AND ADDED DRIVEWAY TRACT 52.



COORDINATE VALUES ARE NAD/83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.10+600 - STA.11+900

SCALE: 1:2000

METRIC

FILE NO.

9/30/2015
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Survey & Design Division

DESIGN DIVISION

FILE NO. ---

R.O.W. ACQUISITION TABLE

TRACT NO	PROPERTY OWNERS	COUNTY RECORDS				AREA TO BE ACQUIRED HECTARES (ACRES)			AREA REMAINING HECTARES (ACRES)		EASEMENT SQ. M (SQ. FT.)			TOTAL AREA HECTARES (ACRES)			ORIGIN
		TAX MAP NO.	PARCEL NO.	DEED BK.	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE (2)	CONST (3)	LEFT	RIGHT	TOTAL	
20	GUS & MARY KAMPAS, VICTOR AND REBECCA KAMPAS	B.135-H	7.01	2085	11	303.2 M2		303.2 M2	0.3291			78.7	189.3 (3)	0.3594		0.3594	C
						(3,264 SF)		(3,264 SF)	(0.813)			(847)	(2,038)	(0.888)		(0.888)	
													183.9 (7)				
													(1,979)				
20S	GUS & MARY KAMPAS, VICTOR AND REBECCA KAMPAS	B.135-H	7.01	20050909	0023160	174.3 M2		174.3 M2	0.3117				173.2 (3)	0.3291		0.3291	
						(1,876 SF)		(1,876 SF)	(0.770)				(1,864)	(0.813)		(0.813)	
													223.6 (7)				
													(2,407)				
21	THOMA J. BIHL, JR. AND SUSAN BIHL	D.122-9	17	2241	270	216.6 M2		216.6 M2	0.2838			71.6	164.0	0.3055		0.3055	C
						(2,331 SF)		(2,331 SF)	(0.701)			(771)	(1,765)	(0.755)		(0.755)	
21S	THOMA J. BIHL, JR. AND SUSAN BIHL	D.122-9	17	20030207	0069780	32.5 M2		32.5 M2	0.2806			47.9	94.9	0.2838		0.2838	
						(350 SF)		(350 SF)	(0.693)			(516)	(1,021)	(0.701)		(0.701)	
22	JAMES L. KENNEDY	A.135-G	35	1933	934		26.2 M2	26.2 M2		0.5420	17.4	323.1	219.6		0.5446	0.5446	C
							(282 SF)	(282 SF)		(1.339)	(187)	(3,478)	(2,364)		(1.346)	(1.346)	
22S	JAMES L. KENNEDY	A.135-G	35	1933	934					0.5420		209.1	167.2		0.5420	0.5420	
										(1.339)		(2,251)	(1,800)		(1.339)	(1.339)	
23	JOSEPH H SHERER	A.135-G	36	20091130	0036972		26.0 M2	26 M2		0.2085			21.3		0.2111	0.2111	C
							(280 SF)	(280 SF)		(0.515)			(229)		(0.522)	(0.522)	
24	SCOTT DEAN OWENS AND KAREN E. OWENS	A.135-G	34	2241	449				0.1448					0.1448		0.1448	C
									(0.358)					(0.358)		(0.358)	
8024	SCOTT DEAN OWENS AND KAREN E. OWENS	A.135-G	34	2241	449	72.1 M2		72.1 M2	---			11.9	47.7	72.1 M2		72.1 S.F.	C
						(776 SF)		(776 SF)	(0 SF)			(128)	(513)	(776 SF)		(776 SF)	
25	MARGARET JEAN LARVEY QUICK	A.135-G	13	20020417	0086054		22.7 M2	22.7 M2		0.2467		159.8	48.9		0.2490	0.2490	C
							(244 SF)	(244 SF)		(0.610)		(1,720)	(526)		(0.615)	(0.615)	
26	WILLADEAN ROBERTA SMITH	A.135-G	27	1490 1419	621 183		0.0863	0.0863		0.7648	334.9	0.1120 HA.	398.0		0.8511	0.8511	C
							(0.213)	(0.213)		(1.890)	(3,605)	(0.277 AC.)	(4,284)		(2.103)	(2.103)	
26S	WILLADEAN ROBERTA BOWERMAN SMITH (LIFE EST) & ALGER MONROE	A.135-G	27	20020424	0088168		108.8 M2	108.8 M2		0.7539		52.9	385.4		0.7648	0.7648	C
							(1,171 SF)	(1,171 SF)		(1.863)		(569)	(4,148)		(1.890)	(1.890)	
27	PILOT OIL CORPORATION	D.122-P	16	20060613	0104765	0.0616		0.0616	0.3527			232.2	87.4 (3)	0.4143		0.4143	C
						(0.152)		(0.152)	(0.871)			(2,499)	(941)	(1.024)		(1.024)	
													0.2394 HA (6)				
													(0.607 AC.)				
28	TLC PROPERTIES, INC.	D.122-P	18.01	2183	207	368.0 M2		368 M2	0.2246			0.0619 HA.	131.6	0.2614		0.2614	D
						(3,961 SF)		(3,961 SF)	(0.555)			(0.153 AC.)	(1,417)	(0.646)		(0.646)	
28S	RONALD E. BEVERLY	D.122-P	18.01	20060607	0103190	52.9 M2		52.9 M2	0.2193		0.0681 HA.		36.3	0.2246		0.2246	D
						(569 SF)		(569 SF)	(0.542)		(0.168 AC.)		(391)	(0.555)		(0.555)	
29	NOT USED	-	-	-	-												-
30	HAROLD EUGENE LOVLACE	D.122-P	15	2187	1077	235.5 M2		235.5 M2	1.2148		0.0669 HA.	71.4	43.6	1.2383		1.2383	D
						(2,535 SF)		(2,535 SF)	(3.002)		(0.165 AC.)	(769)	(469)	(3.060)		(3.060)	
30S	BATES NICHOLS GENERAL PARTNERSHIP	D.122-P	15	20100331	0061802	51.6 M2		51.6 M2	1.2096		242.0	19.0	14.6	1.2148		1.2148	D
						(555 SF)		(555 SF)	(2.989)		(2,605)	(205)	(157)	(3.002)		(3.002)	
31	WILLIAM L. IRWIN	A.135-B	28	1622	901		98.8 M2	98.8 M2		0.5367	0.0874 HA.	11.3	43.8		0.5466	0.5466	C
							(1,063 SF)	(1,063 SF)		(1.326)	(0.216 AC.)	(122)	(471)		(1.351)	(1.351)	
31S	WILLIAM L. IRWIN	A.135-B	28	1622	901		113.1 M2	113.1 M2		0.5254			0.0531 HA (10)		0.5367	0.5367	C
							(1,217 SF)	(1,217 SF)		(1.298)			(0.131 AC.)		(1.326)	(1.326)	
32	NOT USED	-	-	-	-												-
33	LYNN B. & WILLIAM B. WEIGEL FOR LIFE REMAINDER TO LBW PROPERTIES, INC. & WBW PROPERTIES INC.	D.122-P	15.01	1961	42	368.5 M2		368.5 M2	0.4666			430.8	148.6	0.5034		0.5034	C
						(3,967 SF)		(3,967 SF)	(1.153)			(4,637)	(1,600)	(1.244)		(1.244)	
33S	LYNN B. & WILLIAM B. WEIGEL FOR LIFE REMAINDER TO LBW PROPERTIES, INC. & WBW PROPERTIES INC.	D.122-P	15.01	1961	42	226.5 M2		226.5 M2	0.4440			275.0	150.4	0.4666		0.4666	C
						(2,438 SF)		(2,438 SF)	(1.097)			(2,960)	(1,619)	(1.153)		(1.153)	
34	NOT USED	-	-	-	-												-
35	WILLIAM C. & VIRGINIA G. NASH	A.135-B	29 30 31	1873 1964 2185	418 271 173		0.8119	0.8119		2.0155	102.3	10.2	273.5		2.8274	2.8274	D
							(2.006)	(2.006)		(4.980)	(1,101)	(110)	(2,944)		(6.987)	(6.987)	
36	NOT USED	-	-	-	-												-
37	VULCAN MATERIALS CO.	D.122-P	13	1021, 804, 764	125, 5, 73	0.0720		0.0720	3.2591			116.9	289.1	3.3311		3.3311	C
						(0.178)		(0.178)	(8.053)			(1,258)	(3,112)	(8.231)		(8.231)	
37S	VULCAN LANDS INC.	D.122-P	13	1021, 804, 764	125, 5, 73	0.0560		0.0560	3.2031			280.8	295.0	3.2591		3.2591	C
						(0.138)		(0.138)	(7.915)			(3,023)	(3,175)	(8.053)		(8.053)	
38	NOT USED	-	-	-	-												-

ORIGIN LEGEND

D = DEED
TM = TAX MAP
C = CALCULATED

(1) FOR CONSTRUCTION OF DRAINAGE DITCH

(2) FOR CONSTRUCTION OF SLOPE

(3) FOR CONSTRUCTION OF EROSION CONTROL AND FOR WORKING ROOM

(4) TOTAL TAKE

(5) LOSS OF ACCESS

(6) CONSTRUCTION EASEMENT FOR REMOVEAL OF STRUCTURES

(7) CONSTRUCTION EASEMENT FOR BUILDING THE RETAINING WALL IS TO BE LIMITED TO ONE YEAR.

(8) ENCUMBERED BY TVA FLOWAGE EASEMENT

(9) TVA FLOWAGE EASEMENT BELOW BACK WATER ELEVATION 247.650± THIS EASEMENT AFFECTS TRACTS 88, 91, 91S, AND 93.

(10) CONSTRUCTION EASEMENT FOR PIPE REMOVAL AND INSTALLATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	3C
CONST.	2016	47026-3279-14	3C

REV. 04-13-2001 REVISED AREAS FOR TRACTS 37, 39, 42, 43, 45, AND 46
REV. 05-15-2001 ADDED TRACTS 66 & 70.
REV.28-FEB-2003: REVISED TABLE CONTENTS FROM TRACTS 37-74 TO 26-51. ADDED TRACT 26S. REVISED R.O.W. SLOPE, AND CONST. EASEMENTS TRACTS 35,39,43,44,45,46,49,50, AND 51 REVISED SLOPE, CONST, AND DRAINAGE EASEMENT TRACT 31.
REV. 15-MAR-2004: ADDED NOTES 6, 7 AND 8. REVISED ROW SLOPE, AND CONST. EASEMENT TRACTS 43,44,46, AND 49. REVISED ROW TRACT 50. REMOVED TRACT 26S. REVISED CONST EASEMENT TRACT 27 AND 42. ADDED TRACT 24, 8024 AND 25 FROM SHEET 3A.
REV. 24-SEP-2004: REMOVED NOTE # 8. REVISED OWNER NAME, COUNTY RECORDS AND AREA TO BE ACQUIRED ON TRACT 44.
REV. 31-MAR-2006: TRACT 42 REMOVED 0.3182 HA (0.786 AC) CONSTRUCTION EASEMENT FOR REMOVEAL OF STRUCTURES FOOTNOTE 6.
REV. 22-AUG.-2014: REVISED SHEET TO BE TRACTS 20-38. REVISED AREA TO BE ACQUIRED, DRAINAGE, SLOPE AND CONST. EASEMENT TRACT NOS. 20, 21, 22, 23, 24, 8024, 25, 26, 27, 28, 30, 31, 33, 35, AND 37.
REV. 7-NOV.-2014: ADDED TRACTS 20S, 21S, 22S, 26S, 28S, 30S, 31S, 33S AND 37S.
REV. 16-JAN.-2014: REVISED AREA TO BE ACQUIRED, DRAINAGE, SLOPE AND CONST. EASEMENT TRACT NOS. 28S. REVISED SLOPE EASEMENT TRACTS 30S AND 33S. TRACT 37S REVISED AREA TO BE ACQUIRED.
REV. 24-APR-2015: REMOVED CONST. EASEMENT FOR REMOVAL OF STRUCTURES TRACT 27.
REV. 27-MAY-2015: REVISED SLOPE AND CONSTRUCTION EASEMENT TRACT 28S.
REV. 17-SEP-2015: REVISED CONSTRUCTION EASEMENT 28S.

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. ACQUISITION TABLE

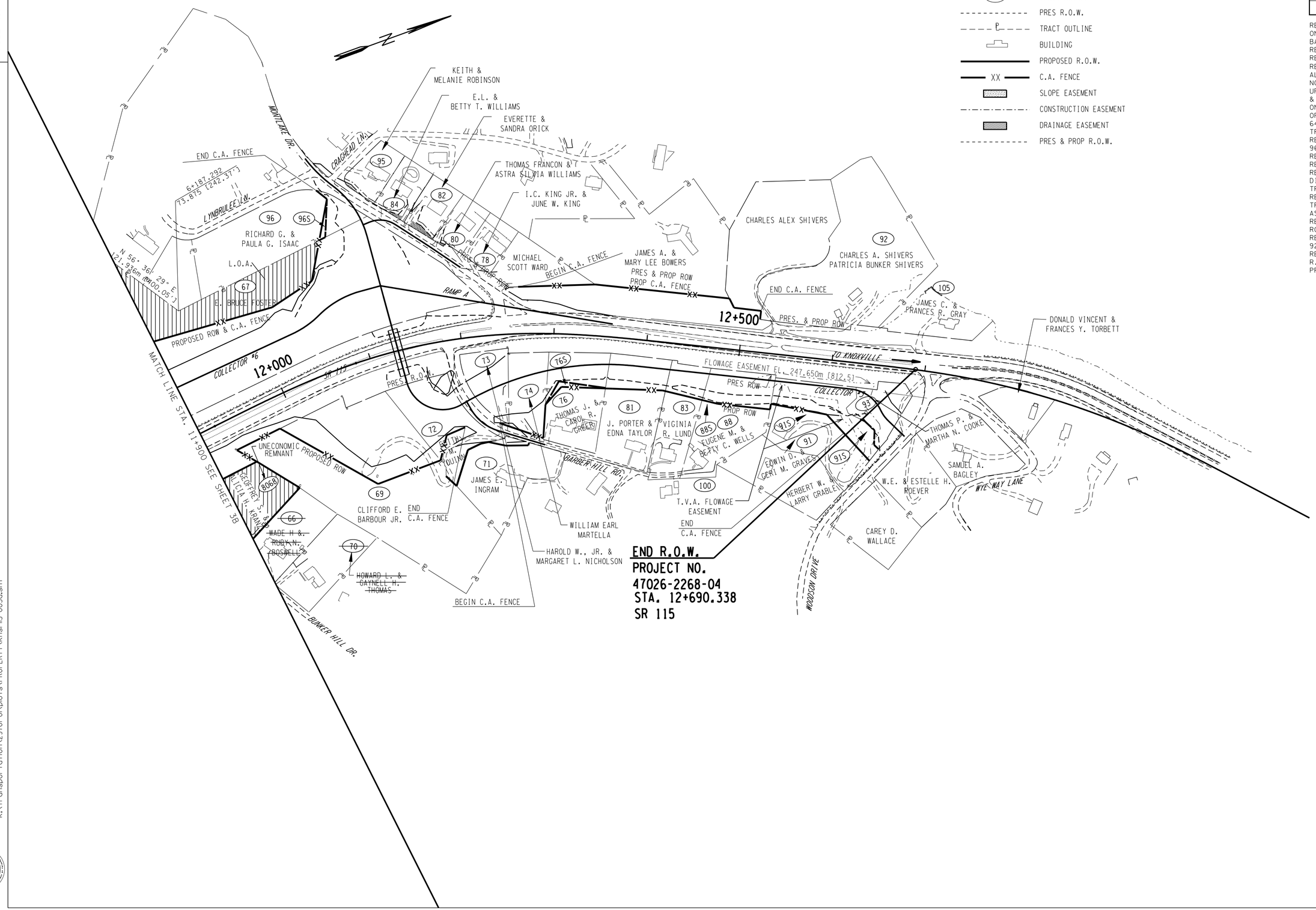
TRACT NO. 20-38

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	3D
CONST.	2016	47026-3279-14	3D

REV. 04-13-2001: REVISED SLOPE LIMITS ON COLLECTOR #3 MONTLAKE DR. BARBER HILL & MONTLAKE COURT.
REV 05-15-2001: ADDED TRACTS 66 & 70 REVISED PROP. R.O.W. & SLOPE LIMITS.
REV. 28-FEB-2003: ADDED LEGEND. REVISED ALIGNMENT FOR SR115, COLLECTOR NO.6, NO.3, GREENWAY & BUNKER HILL RD. UPDATED R.O.W. MOVED SR115 TO WEST & ADD HORIZONTAL CURVE TO PROVIDE TIE-IN ON NORTH END OF PROJECT. IDENTIFIED LOSS OF ACCESS TRACT 67. LINED OUT TRACTS 64, 66 & 70. ADDED TRACT 71. RENAMED TRACT 68 TO 8068
REV. 15-MAR-2004: ADDED TRACTS 76S AND 96S. LABELED TRACT 8068 AS UNECONOMIC REMNANT. REVISED R.O.W. TRACT 93. REVISED END OF C,A, FENCE TRACT 72.
REV. 28-JUL-2004: ADDED BEARINGS, DISTANCES, STATION AND OFFSET TO TRACT 67.
REV. 24-SEP-2004: REVISED R.O.W. TRACT 91. ADDED TRACT 100 T.V.A. AS FLOWAGE EASEMENT.
REV. 22-AUG.-2014: REVISED LOCATIONS OF ROW LINES AND ADDED "S" TRACTS.
REV. 7-NOV.-2014: ADDED TRACTS 88S, 91S, 92, AND 105.
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. TRACTS 84, 82, 80, 78 AND WARD PROPERTY.

LEGEND

- (30) TRACT NUMBER
- PRES R.O.W.
- TRACT OUTLINE
- BUILDING
- PROPOSED R.O.W.
- XX C.A. FENCE
- SLOPE EASEMENT
- CONSTRUCTION EASEMENT
- DRAINAGE EASEMENT
- PRES & PROP R.O.W.



COORDINATE VALUES ARE NAD/83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.11+900 - STA.12+687.506

SCALE: 1:2000

FILE NO.

9/30/2015
k:\transportation\297011-01\plots\PROPERTY\knsr115-003d.sht

Survey & Design Division

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	3E

R.O.W. ACQUISITION TABLE

TRACT NO	PROPERTY OWNERS	COUNTY RECORDS				AREA TO BE ACQUIRED HECTARES (ACRES)			AREA REMAINING HECTARES (ACRES)		EASEMENT SQ. M (SQ. FT.)			TOTAL AREA HECTARES (ACRES)			ORIGIN
		TAX MAP NO.	PARCEL NO.	DEED BK.	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE (2)	CONST (3)	LEFT	RIGHT	TOTAL	
39	GARY CULLUM, SR.	A.135-B	32	1970	27		0.0642	0.0642		5.4647		72.9	53.0		5.5289	5.5289	C
							(0.159)	(0.159)		(13.504)		(1,611)	(1,171)		(13.662)	(13.662)	
40	NOT USED	-	-	-	-												-
41	NOT USED	-	-	-	-												-
42	MILDRED B. IRWIN FAMILY PARTNERSHIP	D.122-P	12.01 12.02	2315	600 604 608 612	0.1529		0.1529	0.8342			136.3	324.9 (3)	0.9871		0.9871	C
						(0.378)		(0.378)	(2.061)			(1,467)	(3,497) (6)	(2.439)		(2.439)	
43	SEVIER HEIGHTS BAPTIST CHURCH	D.122-P	12.03	20121128	0034685	0.3061		0.3061	3.3366			26.8	142.5	3.6427		3.6427	C
						(0.756)		(0.756)	(8.245)			(288)	(1,534)	(9.001)		(9.001)	
~~44~~	~~MILDRED E. IRWIN~~	~~D.122-P~~	~~12~~	~~1843~~	~~9~~				~~0.3852~~					~~0.3852~~		~~0.3852~~	~~D~~
									~~(0.952)~~					~~(0.952)~~		~~(0.952)~~	
45	ESTATE OF FLORENCE STEPHENSON MONDAY	J.122-O	2.01	2229	548		0.1051	0.1051		2.0046		21.5	140.7		2.1097	2.1097	C
							(0.260)	(0.260)		(4.954)		(231)	(1,514)		(5.213)	(5.213)	
46	MILDRED B. IRWIN FAMILY PARTNERSHIP L P	D.122-P	12.07	20131202	0034025	0.1055		0.1055	3.0187			342.5	414.6 (1)	3.1242		3.1242	C
						(0.261)		(0.261)	(7.459)			(3,687)	(4,463)	(7.720)		(7.720)	
47	ROBERT W. MONDAY (LEASED BY SPARTAN RESTAURANTS, INC.)	J.122-O	2.02	1957	551		0.0971	0.0971		0.3846		175.3	57.0		0.4816	0.4816	D
							(0.240)	(0.240)		(0.950)		(1,887)	(614)		(1.190)	(1.190)	
48	ROBERT W. MONDAY	J.122-O	2	1957	551		0.1351	0.1351		4.3039			211.4		4.4390	4.4390	D
							(0.334)	(0.334)		(10.635)			(2,275)		(10.969)	(10.969)	
49	MILDRED B. IRWIN FAMILY PARTNERSHIP	D.122-P	12.04	2315	600 604 608 612	0.1104		0.1104	0.3653			54.3	304.5	0.4757		0.4757	C
						(0.273)		(0.273)	(0.903)			(569)	(3,188)	(1.175)		(1.175)	
50	SHAILESH & KALPANA SHAN	D.122-P	8	2257	1189	0.5463		0.5463	--- (4)					0.5463		0.5463	C
						(1.350)		(1.350)	(0 SF)					(1.350)		(1.350)	
51	SOUTHGATE SHOPPING CENTER, INC.	J.122-O	3	1368	779		0.0965	0.0965		2.0856		134.9	287.6		2.1821	2.1821	C
							(0.238)	(0.238)		(5.154)		(1,452)	(3,096)		(5.392)	(5.392)	
52	RICHARD M. & CAROL LYNN WARREN	D.122-P	6, 7	1806, 1676	135, 683	0.1710		0.1710	0.4305					0.6015		0.6015	C
						(0.423)		(0.423)	(1.064)					(1.486)		(1.486)	
53	MILDRED E. IRWIN	D.122-P	12	1843	9				0.3415			44.3	50.0	0.3415		0.3415	C
									(0.844)			(477)	(538)	(0.844)		(0.844)	
54	ALVIN WILBERT & GRACE MILDRED RUTH	D.122-P	5	1181	155	148.0 M2		148.0 M2	0.3291 (4)			0.0967 HA.	12.5	0.3439		0.3439	C
						(1,593 SF)		(1,593 SF)	(0.813)			(0.239 AC.)	(135)	(0.850)		(0.850)	
54S	ALVIN WILBERT & GRACE MILDRED RUTH	D.122-P	5	1181	155	0.3291		0.3291	--- (4)					0.3291		0.3291	C
						(0.813)		(0.813)	(0 SF)					(0.813)		(0.813)	
55	ELIZABETH HARB ET AL. & CHRISTOPHER RAMSEY HARB ET AL.	J.122-O	4	1595 WB 75	963, 980		289.9 M2	289.9 M2		0.0596			94.8		0.0886	0.0886	C
							(3,120 SF)	(3,120 SF)		(0.147)			(1,020)		(0.219)	(0.219)	
56	MARY EVELYN FOSTER	D.122-P	2	1286, 1286	173, 187	2.7235		2.7235	0.4803 (5)					3.2038		3.2038	C
						(6.730)		(6.730)	(1.187)					(7.917)		(7.917)	
57	ROBERT KENNETH VANN AND ROBERT W. MONDAY	J.122-O	5	2015	146		0.6038	0.6038		0.5777					1.1815	1.1815	C
							(1.492)	(1.492)		(1.428)					(2.920)	(2.920)	
58	WILLIAM IRWIN	D.122-P	12.06	20131202	0034024	0.1006		0.1006	6.7750			163.4	127.7	6.8756		6.8756	D
						(0.249)		(0.249)	(16.741)			(1,759)	(1,375)	(16.990)		(16.990)	
59	E. BRUCE FOSTER, SR.	D.122-P	3, 4	1917	455	0.6249		0.6249	--- (4)					0.6249		0.6249	C
						(1.544)		(1.544)	(0 SF)					(1.544)		(1.544)	
60	NOT USED	-	-	-	-												-
																(0.000)	
61	MARK ALLEN AND JANET POWELL LOWE	J.122-0	6	2068	1036		258.2 M2	258.2 M2		0.1963					0.2221	0.2221	C
							(2,779 SF)	(2,779 SF)		(0.485)					(0.549)	(0.549)	
62	WELDON W. & HOPE G. WILLIAMS	A.122-O	15	1098	491		0.0729	0.0729		0.2974					0.3703	0.3703	C
							(0.180)	(0.180)		(0.735)					(0.915)	(0.915)	
63	MELANIE DOSS	A.122-J	6	1985	414		0.0653	0.0653		0.5240					0.4845	0.4845	C
							(0.161)	(0.161)		(1.036)					(1.197)	(1.197)	
~~64~~	~~ELVIN ELLIS OVERTON & HARRIET BROWN OVERTON~~	~~A.122-O~~	~~1~~	~~1073~~	~~159~~					~~0.2538~~					~~0.2538~~	~~0.2538~~	~~C~~
										~~(0.627)~~					~~(0.627)~~	~~(0.627)~~	
65	NOT USED	-	-	-	-												-
																(0.000)	
~~66~~	~~WADE H. BOSWELL & RUBY N. BOSWELL~~	~~A.122-J~~	~~4~~	~~1426~~	~~647~~	-	-			~~0.4858~~					~~0.4858~~	~~0.4858~~	~~C~~
						-	-			~~(1.200)~~					~~(1.200)~~	~~(1.200)~~	
67	E. BRUCE FOSTER	D.122-P, C.122-I	1, 12	1097	379	3.1858		3.1858	1.4888 (5)					4.6746		4.6746	C
						(7.872)		(7.872)	(3.679)					(11.551)		(11.551)	

ORIGIN LEGEND

D = DEED
TM = TAX MAP
C = CALCULATED

(1) FOR CONSTRUCTION OF DRAINAGE DITCH

(2) FOR CONSTRUCTION OF SLOPE

(3) FOR CONSTRUCTION OF EROSION CONTROL AND FOR WORKING ROOM

(4) TOTAL TAKE

(5) LOSS OF ACCESS

(6) CONSTRUCTION EASEMENT FOR REMOVEAL OF STRUCTURES

(7) CONSTRUCTION EASEMENT FOR BUILDING THE RETAINING WALL IS TO BE LIMITED TO ONE YEAR.

(8) ENCUMBERED BY TVA FLOWAGE EASEMENT

(9) TVA FLOWAGE EASEMENT BELOW BACK WATER ELEVATION 247.650± THIS EASEMENT AFFECTS TRACTS 88, 91, 91S, AND 93.

(10) CONSTRUCTION EASEMENT FOR PIPE REMOVAL AND INSTALLATION

REV. 04-13-2001: REVISED AREAS FOR TRACT 95.
REV. 03-01-2002: REVISED AREAS OF TRACT 98.
REV.28-FEB-2003: REVISED TABLE CONTENTS FROM TRACTS 75-104 TO 52-77. LINED OUT TRACTS. 64,66, AND 70. ADDED TRACTS 53.54S, 58,61,71 AND 76S. REVISED R.O.W, SLOPE, AND CONST. EASEMENTS TRACTS 52,54,55,56, 57 AND 59. REVISED R.O.W. TRACTS 62,63,67, AND 69. RENAMED TRACT 68 TO 8068.
REV. 15-MAR-2004: ADDED NOTES 6 AND 7. REMOVED LOSS OF ACCESS FROM TRACTS 52,54 AND 54S MADE TOTAL TAKES. REVISED ROW TRACT 53,56 AND 57. REVISED AREA TRACT 74.
REV. 6-AUG-2008: REVISED AREA TO BE ACQUIRED AND AREA REMAINING TRACT 62.
REV. 22-AUG.-2014: REVISED SHEET TO BE TRACTS 39-67. REVISED AREA TO BE ACQUIRED, DRAINAGE, SLOPE AND CONST. EASEMENT TRACT NOS. 39, 42, 43, 44, 45, 46, 49, 50, 51, 53, AND 58.
REV. 7-NOV.-2014: REVISED AREA TO BE ACQUIRED, DRAINAGE, SLOPE AND CONST. EASEMENT TRACT NOS. 42, 43, 44, 46 AND 49. LINED OUT TRACT NO.64.
REV. 27-MAY-2015: REMOVED TRACT 44. REVISED TRACTS 46, 49 AND 58.
REV. 17-SEP-2015: REVISED AREA TO BE ACQUIRED TRACT 52 NO LONGER TOTAL TAKE.

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. ACQUISITION TABLE

TRACT NO. 39-67

FILE NO. ---

R.O.W. ACQUISITION TABLE

TRACT NO	PROPERTY OWNERS	COUNTY RECORDS				AREA TO BE ACQUIRED HECTARES (ACRES)			AREA REMAINING HECTARES (ACRES)		EASEMENT SQ. M (SQ. FT.)			TOTAL AREA HECTARES (ACRES)			ORIGIN
		TAX MAP NO.	PARCEL NO.	DEED BK.	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE (2)	CONST (3)	LEFT	RIGHT	TOTAL	
~~8068~~	~~GEOFFERY S. AND ALICIA H. KRANZ~~	~~A.122-J~~	~~5~~	~~2010~~	~~107~~	-	~~0.6312~~	~~0.6312~~		---					~~0.6312~~	~~0.6312~~	~~C~~
						-	~~(1.560)~~	~~(1.560)~~		~~(0 SF)~~					~~(1.560)~~	~~(1.560)~~	
69	CLIFFORD E. BARBOUR, JR.	A.122-J	7, 8, 10, 12	2275	1059		0.8976	0.8976		1.8180					2.7155	2.7155	C
							(2.218)	(2.218)		(4.492)					(6.710)	(6.710)	
~~70~~	~~HOWARD L. THOMAS & GAYNELL H. THOMAS~~	~~A.122-J~~	~~3~~	~~1079~~	~~517~~	-	-			0.5084					~~0.5084~~	~~0.5084~~	~~C~~
						-	-			~~(1.256)~~					~~(1.256)~~	~~(1.256)~~	
71	JAMES G. INGRAM	A.122-J	16	2132	1181		237.3 M2	237.3 M2		0.6217					0.6454	0.6454	C
							(2,554 SF)	(2,554 SF)		(1.536)					(1.595)	(1.595)	
72	EDITH M. QUINN	A.122-J	9	935	343		0.6002	0.6002		--- (4)					0.6002	0.6002	C
							(1.483)	(1.483)		(0 SF)					(1.483)	(1.483)	
73	HAROLD W., JR. & MARGARET L. NICHOLSON	A.122-J	29	1663	131		0.2900	0.2900		--- (4)					0.2900	0.2900	D
							(0.717)	(0.717)		(0 SF)					(0.717)	(0.717)	
74	WILLIAM EARL MARTELLA	A.122-J	28	1669	652		0.3460	0.3460		--- (4)					0.3460	0.3460	C
							(0.855)	(0.855)		(0 SF)					(0.855)	(0.855)	
75	NOT USED	-	-	-	-												-
																(0.000)	
76	THOMAS J. & CAROL R. GREER	A.122-J	26, 27	1845	341		0.2352	0.2352		0.3910					0.6262	0.6262	C
							(0.581)	(0.581)		(0.966)					(1.547)	(1.547)	
76S	THOMAS J. & CAROL R. GREER	A.122-J	26, 27	1845	341		228.0 M2	228.0 M2		0.3682					0.3910	0.3910	C
							(2,454 SF)	(2,454 SF)		(0.910)					(0.966)	(0.966)	
77	NOT USED	-	-	-	-												-
																(0.000)	
78	I.C. & JUNE W. KING JR.	B.122-I	9	1146	137				0.2230			5.0	30.5	0.2230		0.2230	C
									(0.551)			(54)	(328)	(0.551)		(0.551)	
79	NOT USED	-	-	-	-												C
																(0.000)	
80	THOMAS FRANCON & ASTRA SILVIA WILLIAMS	B.122-I	10	1416	244				0.2153			162.8	82.3	0.2153		0.2153	C
									(0.532)			(1,752)	(886)	(0.532)		(0.532)	
81	J. PORTER & EDNA TAYLOR	A.122-J	24, 25	820, 912	147,23		0.2334	0.2334		0.5083					0.7417	0.7417	C
							(0.577)	(0.577)		(1.256)					(1.833)	(1.833)	
82	EVERETTE & SANDRA ORICK	B.122-I	11	1519	38				0.2296			229.5	73.2	0.2296		0.2296	C
									(0.567)			(2,470)	(788)	(0.567)		(0.567)	
83	VIRGINIA R. LUND INSTRUMENT #199908270016735	A.122-J	23	2187	651		0.1403	0.1403		0.3465					0.4868	0.4868	C
							(0.347)	(0.347)		(0.856)					(1.203)	(1.203)	
84	E.L. & BETTY T. WILLIAMS	B.122-I	12	1860	519				0.2230			82.6	83.7	0.2230		0.2230	C
									(0.551)			(889)	(901)	(0.551)		(0.551)	
85	NOT USED	-	-	-	-												-
																(0.000)	
86	NOT USED	-	-	-	-												-
																(0.000)	
87	NOT USED	-	-	-	-					9.3654					9.3654	9.3654	-
										(23.142)					(23.142)	(23.142)	
88	EUGENE M. AND BETTY C. WELLS (8)	A.1225	22	1724	564		0.2673	0.2673		0.4578					0.7251	0.7251	C
							(0.660)	(0.660)		(1.131)					(1.792)	(1.792)	
88S	EUGENE M. AND BETTY C. WELLS (8)	A.1225	22	1724	564					0.4578			370.0 (3)		0.4578	0.4578	C
										(1.131)			(3,983)		(1.131)	(1.131)	
89	NOT USED	-	-	-	-												-
																(0.000)	
90	NOT USED	-	-	-	-												-
																(0.000)	
91	EDWIN D. AND GERI M. GRAVES (8)	A.122-J	31	2194	1009		0.2717	0.2717		0.6091					0.8808	0.8808	C
							(0.671)	(0.671)		(1.505)					(2.176)	(2.176)	
91S	EDWIN D. AND GERI M. GRAVES (8)	A.122-J	31	2194	1009		0.1154	0.1154		0.4937			347.2 (3)		0.6091	0.6091	C
							(0.285)	(0.285)		(1.220)			(3,737)		(1.505)	(1.505)	

ORIGIN LEGEND

D = DEED
TM = TAX MAP
C = CALCULATED

(1) FOR CONSTRUCTION OF DRAINAGE DITCH

(2) FOR CONSTRUCTION OF SLOPE

(3) FOR CONSTRUCTION OF EROSION CONTROL AND FOR WORKING ROOM

(4) TOTAL TAKE

(5) LOSS OF ACCESS

(6) CONSTRUCTION EASEMENT FOR REMOVEAL OF STRUCTURES

(7) CONSTRUCTION EASEMENT FOR BUILDING THE RETAINING WALL IS TO BE LIMITED TO ONE YEAR.

(8) ENCUMBERED BY TVA FLOWAGE EASEMENT

(9) TVA FLOWAGE EASEMENT BELOW BACK WATER ELEVATION 247.650± THIS EASEMENT AFFECTS TRACTS 88, 91, 91S, AND 93.

(10) CONSTRUCTION EASEMENT FOR PIPE REMOVAL AND INSTALLATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	3F
CONST.	2016	47026-3279-14	3F

REV.28-FEB-2003: ADDED SHEET AND MOVED TRACTS 78-104 FROM SHEET 3E. REVISED R.O.W. TRACTS 81.83.88.91.93 AND 96. ADDED TRACT 80S.
REV. 15-MAR-2004: ADDED NOTES 6 AND 7. REMOVED TRACT 80S. ADDED TRACT 96S. MADE TRACT 93 A TOTAL TAKE.
REV. 24-SEP-2004: REVISED AREA TO BE AQUIRED TRACT 91. ADDED TRACT 100. ADDED NOTE 8.
REV. 22-AUG.-2014: REVISED SHEET TO BE TRACTS 8068-91. REVISED AREA TO BE ACQUIRED, DRAINAGE SLOPE AND CONST. EASEMENT TRACT NO. 91.
REV. 7-NOV.-2014: ADDED TRACTS 88S AND 91S.

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. ACQUISITION TABLE

TRACT NO. 8068-91

FILE NO. ---

R.O.W. ACQUISITION TABLE

TRACT NO	PROPERTY OWNERS	COUNTY RECORDS				AREA TO BE ACQUIRED HECTARES (ACRES)			AREA REMAINING HECTARES (ACRES)		EASEMENT SQ. M (SQ. FT.)			TOTAL AREA HECTARES (ACRES)			ORIGIN
		TAX MAP NO.	PARCEL NO.	DEED BK.	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE (2)	CONST. (3)	LEFT	RIGHT	TOTAL	
92	THE CHARLES ALEX SHIVERS AND/OR PATRICIA BUNKER SHIVERS REVOCABLE LIVING TRUST	B.122-I	3, 4	20040602	0110551				1.8593				156.3	1.8593		1.8593	-
									(4.594)				(1,682) (3)	(4.594)		(4.594)	
93	THOMAS P. AND MARTHA N. COOKE (8)	A.122-J	30	1949	29		0.2685	0.2685		--- (4)					0.2685	0.2685	C
							(0.663)	(0.663)		(0 SF)					(0.663)	(0.663)	
94	NOT USED	-	-	-	-												-
																(0.000)	
95	KEITH & MELANIE ROBINSON	B.122-I	13	2259	695				0.2246			46.8	110.3	0.2246		0.2246	C
									(0.555)			(504)	(1,187)	(0.555)		(0.555)	
96	RICHARD G. AND PAULA G. ISAAC	C.122-I	15	1708	57	49.9 M2	0.1048	0.1098	---	0.9094				49.9 M2	1.0142	1.0192	C
						(537 SF)	(0.259)	(0.271)	(0 SF)	(2.247)				(537 SF)	(2.506)	(2.518)	
96S	RICHARD G. AND PAULA G. ISAAC	C.122-I	15	1708	57		127.7 M2	127.7 M2		---					127.7 M2	127.7 S.F.	C
							(1,375 SF)	(1,375 SF)		(0 SF)					(1,375 SF)	(1,375 SF)	
97	THE UNIVERSITY OF TENNESSEE	135	11	1223	1082		0.0554	0.0554		99.0930	399.6	130.8	314.5		99.1484	99.1484	D
							(0.137)	(0.137)		(244.863)	(4,301)	(1,408)	(3,385)		(245.000)	(245.000)	
																(0.000)	D
98	ALLEN B. MILLER, JR.	B.135-H	10	2215	210	160.2 M2	9.5 M2	169.7 M2	0.3568 (5)	---	7.5	186.3	76.4	0.3728	9.5 M2	0.3738	C
						(1,724 SF)	(102 SF)	(1,827 SF)	(0.882)	(0 SF)	(81)	(2,005)	(822)	(0.921)	(102 SF)	(0.924)	
98S	ALLEN B. MILLER, JR.	B.135-H	10	2215	210	132.3 M2		132.3 M2	0.3436 (5)			140.7	156.0	0.3568		0.3568	C
						(1,424 SF)		(1,424 SF)	(0.849)			(1,514)	(1,679)	(0.882)		(0.882)	
99	DONALD W. FREEMAN AND MARIE M. FREEMAN	B.135-H	11	1756, 2013	347, 527	52.2 M2		52.2 M2	0.8311		8.1	287.3	134.9	0.8363		0.8363	C
						(562 SF)		(562 SF)	(2.054)		(87)	(3,092)	(1,452)	(2.067)		(2.067)	
99S	DONALD W. FREEMAN AND MARIE M. FREEMAN	B.135-H	11	20040108	0068065				0.8311		30.6	81.5	129.3	0.8311		0.8311	
									(2.054)		(329)	(877)	(1,392)	(2.054)		(2.054)	
100	TENNESSEE VALLEY AUTHORITY FLOWAGE EASEMENT (9)	-	-	650	45		1634 M3	1634 M3							0.4255	0.4255	-
							2,137.2	2,137.2							(1.051)	(1.051)	
																(0.000)	-
101	NOT USED	-	-	-	-												-
																(0.000)	
102	NOT USED	-	-	-	-												-
																(0.000)	
103	ERNEST WAYNE HEATON	B.135-H	5	1846	48		53.8 M2	53.8 M2		0.2148			40.1		0.2202	0.2202	C
							(579 SF)	(579 SF)		(0.531)			(432)		(0.544)	(0.544)	
104	NOT USED	-	-	-	-												-
																(0.000)	
105	GARY REEVES AND ROBIN REEVES	B.122-I	2	20011052 3	0067604				0.4100				42.0 (3)	0.4100		0.4100	-
									(1.013)				(452)	(1.013)		(1.013)	
106	SARA B SHIVERS	D.122-P	10	2067	276	206.2 M2		206.2 S.F.	0.6633					0.6839		0.6839	D
						(2,220 SF)		(2,220 SF)	(1.639)					(1.690)		(1.690)	
ACQUISITION TOTALS				HECTARES		12.0528	8.5113 HA	20.5641			0.3706 HA.	0.9785 HA.	1.4830 HA.				
				(ACRES)		(29.783)	(21.032)	(50.815)			(0.916 AC.)	(2.418 AC.)	(3.664 AC.)				

DISTURBED AREA

IN BETWEEN SLOPE LINES	21.9132 HA.
	(54.148 AC.)
3 METER WIDE STRIP (OUTSIDE SLOPE LINES)	1.4830 HA.
	(3.664 AC.)
TOTAL DISTURBED AREA	23.3961 HA.
	(57.813 AC.)

ORIGIN LEGEND

D = DEED
TM = TAX MAP
C = CALCULATED

(1) FOR CONSTRUCTION OF DRAINAGE DITCH

(2) FOR CONSTRUCTION OF SLOPE

(3) FOR CONSTRUCTION OF EROSION CONTROL AND FOR WORKING ROOM

(4) TOTAL TAKE

(5) LOSS OF ACCESS

(6) CONSTRUCTION EASEMENT FOR REMOVEAL OF STRUCTURES

(7) CONSTRUCTION EASEMENT FOR BUILDING THE RETAINING WALL IS TO BE LIMITED TO ONE YEAR.

(8) ENCUMBERED BY TVA FLOWAGE EASEMENT

(9) TVA FLOWAGE EASEMENT BELOW BACK WATER ELEVATION 247.650± THIS EASEMENT AFFECTS TRACTS 88, 91, 91S, AND 93. THE TOTAL VOLUME DISPLACED BY FILL IS 1634 CUBIC METERS (2137 CU. YDS.)

(10) CONSTRUCTION EASEMENT FOR PIPE REMOVAL AND INSTALLATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	3G
CONST.	2016	47026-3279-14	3G

REV. 22-AUG.-2014: ADDED SHEET. REVISED AREA TO BE ACQUIRED, DRAINAGE, SLOPE AND CONST. EASEMENT TRACT NOS. 95, 97, 98, 99, 100 AND 103.
REV. 7-NOV.-2014: REVISED AREA TO BE ACQUIRED, DRAINAGE, SLOPE AND CONST. EASEMENT TRACT NO. 97, AND 100. ADDED TRACTS 92, 96S, 98S, 99S AND 105. MADE TRACTS 98 & 98S LOSS OF ACCESS.
REV. 24-APR.2015: ADDED SLOPE AND CONST. EASEMENT TRACT 97. TRACT 98S, ADDED CONSTRUCTION EASEMENT FOR REMOVAL OF STRUCTURES.
REV. 27-MAY-2015: ADDED TRACT 106.
REV. 17-SEP-2015: REVISED CONST. EASMENT TRACT 98S, AND ADDED DISTURBED AREA TABLE.

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

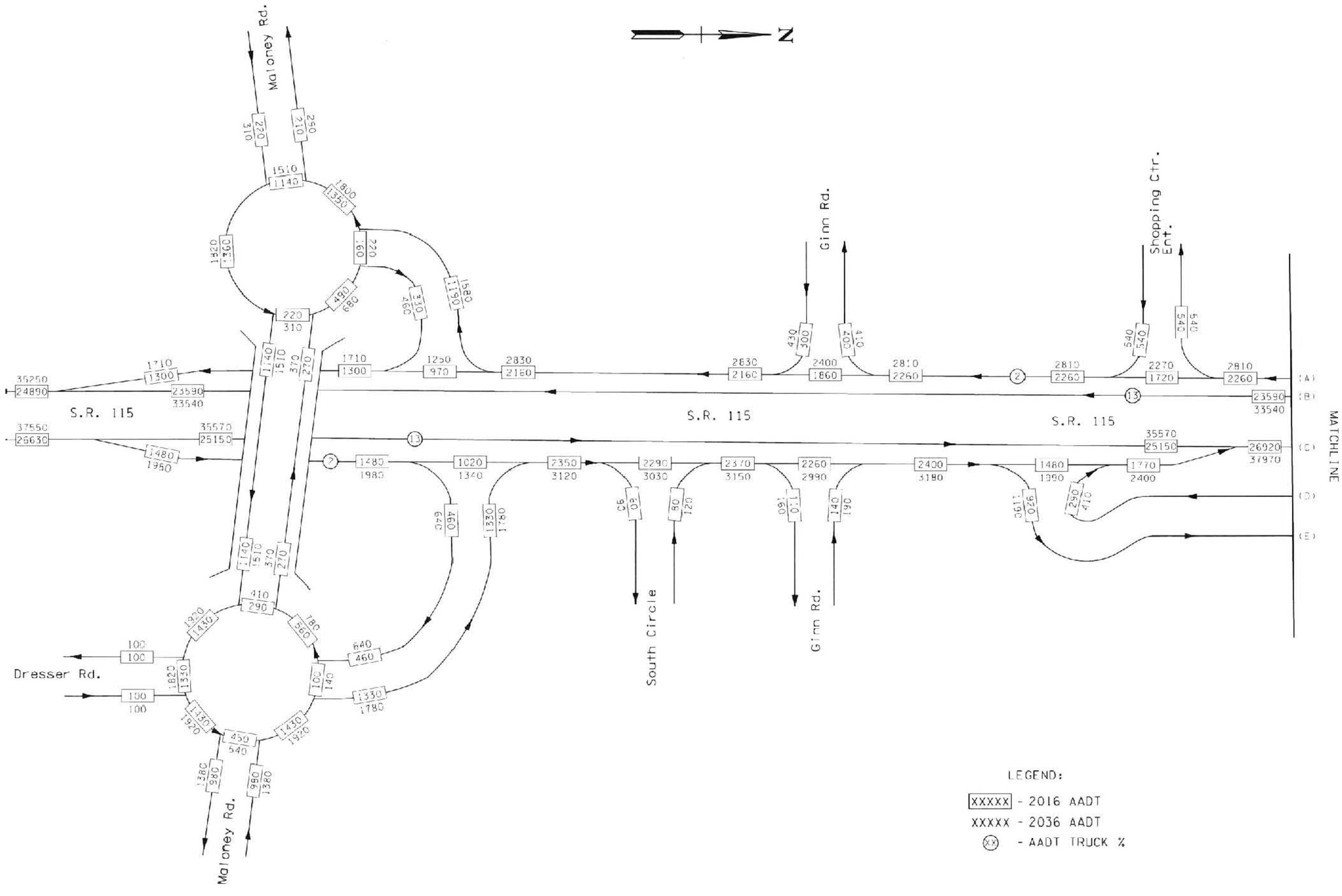
R.O.W. ACQUISITION TABLE

TRACT NO. 78-104

DESIGN DIVISION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	3H
CONST.	2016	47026-3279-14	3H

REV. 04-13-2001: REMOVED VULCAN RD. & COLLECTOR NO. 2
REV. 28-FEB-2003: RENAMED SHEET FROM 3F TO 3G. REVISED ALIGNMENTS FOR TRAFFIC MOVEMENT.
REV. 22-AUG-2014: RENAMED SHEET FROM 3G TO 3H.
REV. 24-APR-2015: UPDATED TRAFFIC DATA.



INFORMATION PROVIDED BY T.D.O.T.

SEALED BY

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

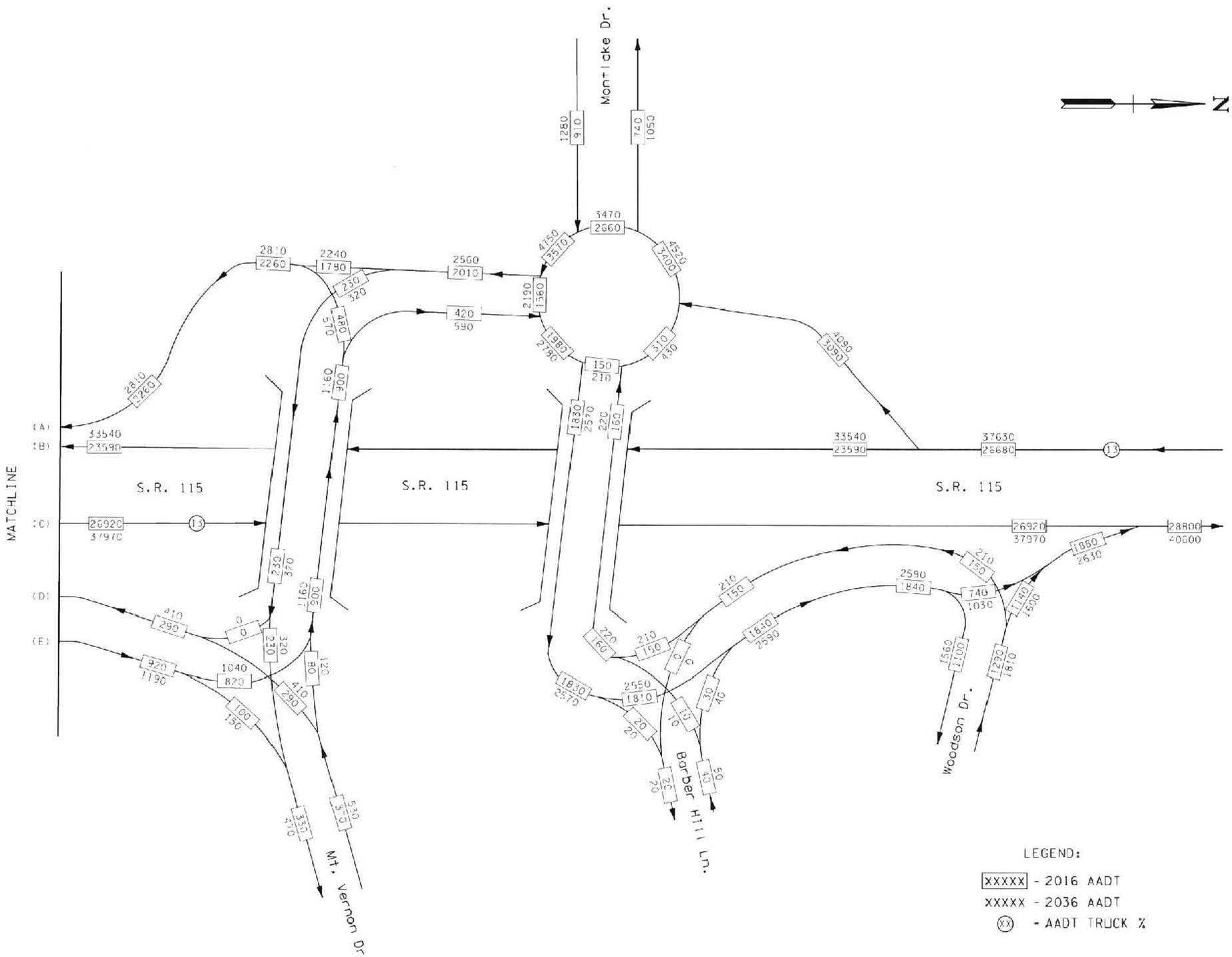
KNOX COUNTY
KNOXVILLE
S.R. 115
TRAFFIC FORECASTS

NOTE TO SCALE

DESIGN DIVISION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	3I
CONST.	2016	47026-3279-14	3I

REV. 24-APR-2015: ADDED SHEET FOR UPDATED TRAFFIC DATA.



LEGEND:

XXXXX - 2016 AADT

XXXXX - 2036 AADT

(XX) - AADT TRUCK %

INFORMATION PROVIDED BY T.D.O.T.

SEALED BY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

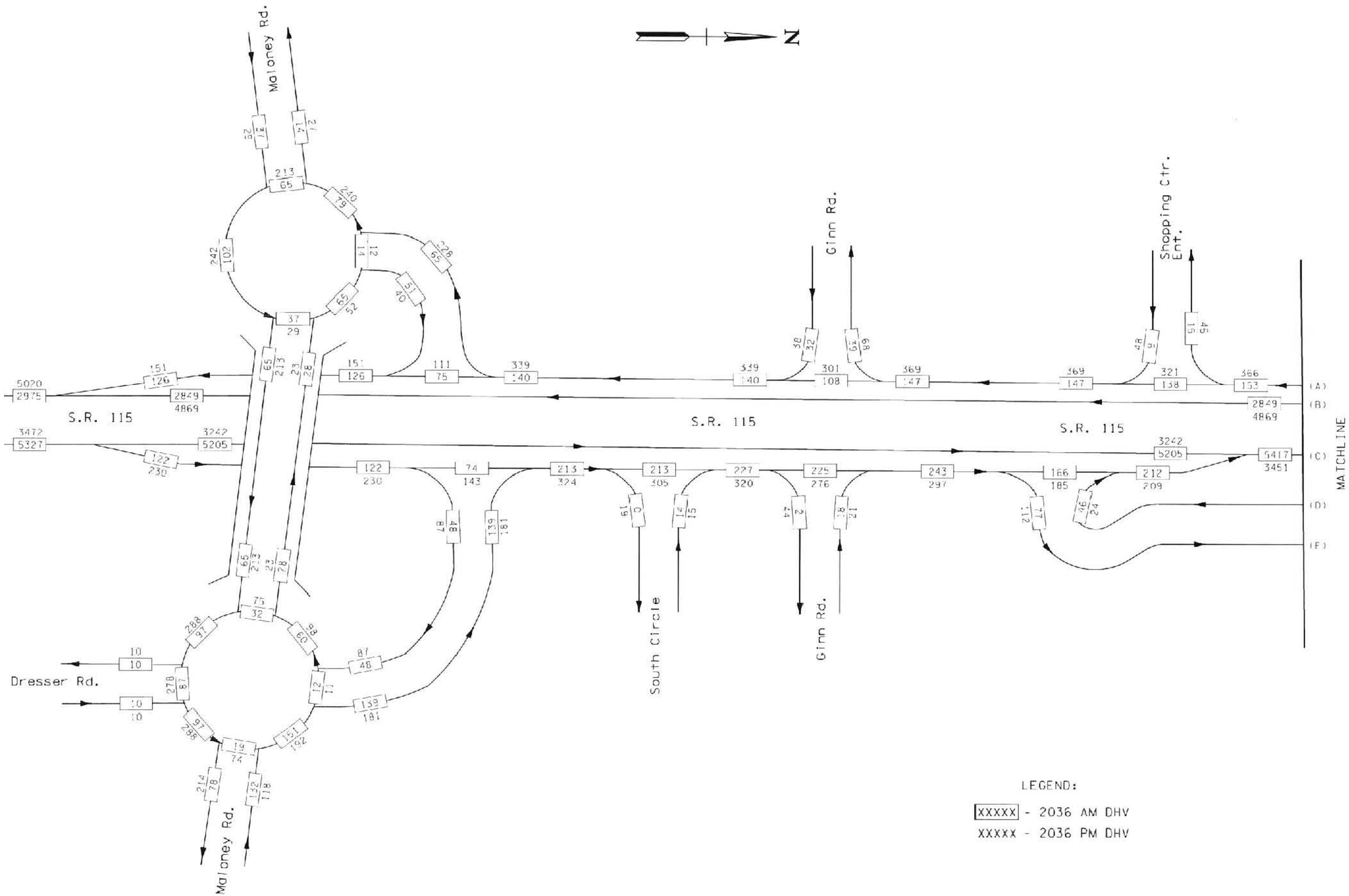
KNOX COUNTY
KNOXVILLE
S.R. 115
TRAFFIC FORECASTS

NOTE TO SCALE

DESIGN DIVISION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	3J
CONST.	2016	47026-3279-14	3J

REV. 24-APR-2015: ADDED SHEET FOR UPDATED TRAFFIC DATA.



LEGEND:

[XXXXX] - 2036 AM DHV

XXXXX - 2036 PM DHV

INFORMATION PROVIDED BY T.D.O.T.

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TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

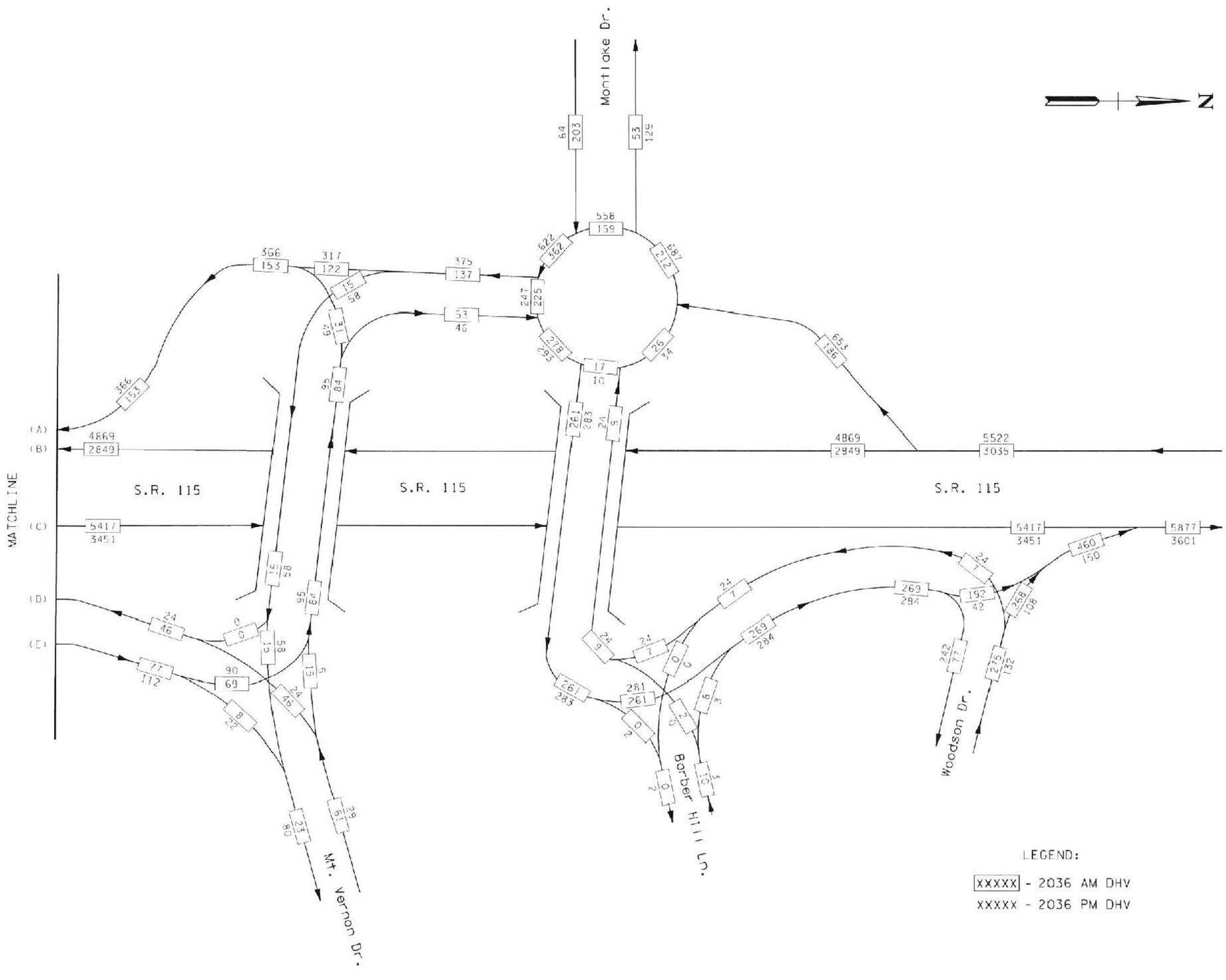
KNOX COUNTY
KNOXVILLE
S.R. 115
TRAFFIC FORECASTS

NOTE TO SCALE

DESIGN DIVISION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	3K
CONST.	2016	47026-3279-14	3K

REV. 24-APR-2015: ADDED SHEET FOR UPDATED TRAFFIC DATA.



INFORMATION PROVIDED BY T.D.O.T.

SEALED BY

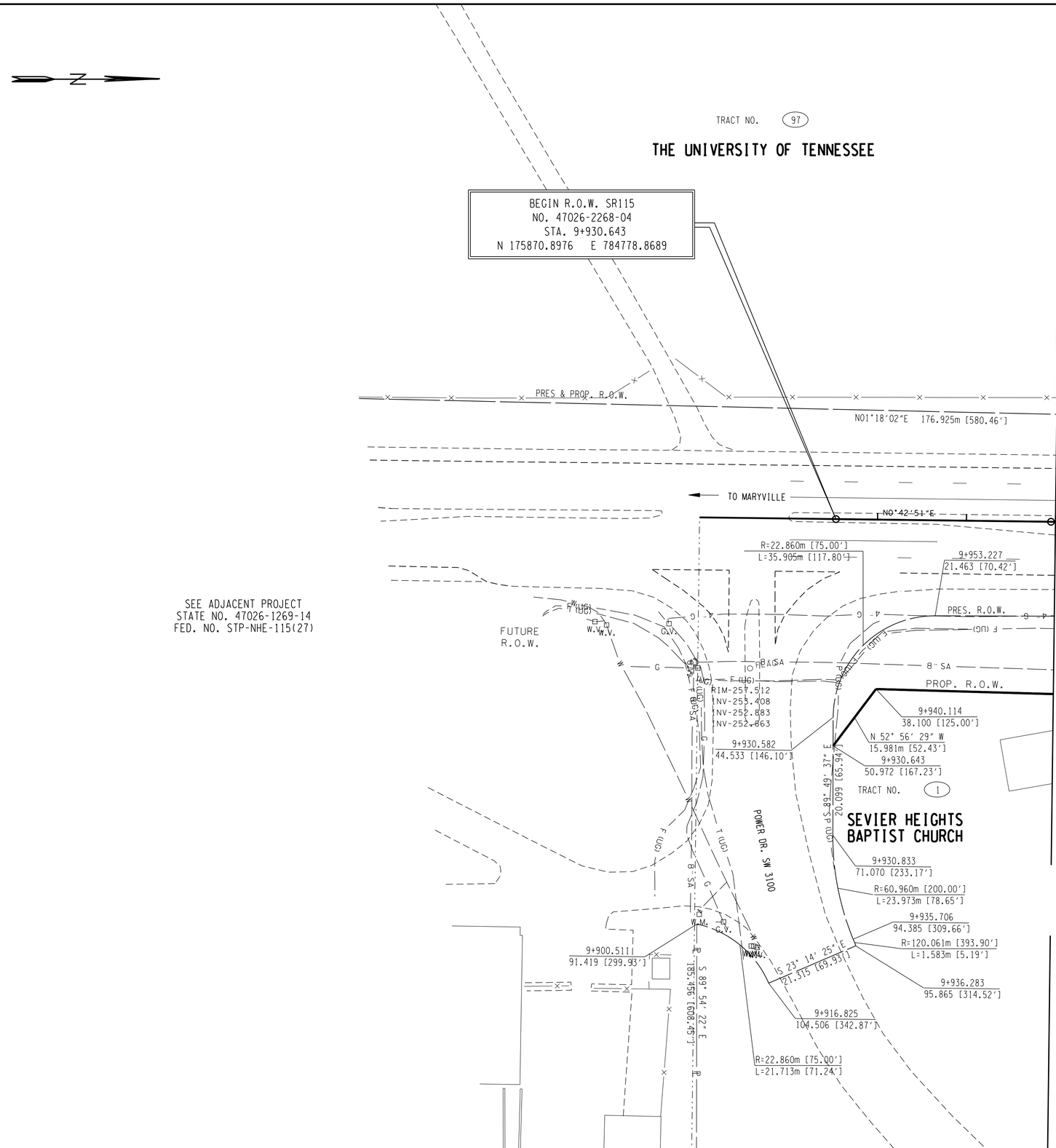
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

KNOX COUNTY
KNOXVILLE
S.R. 115
TRAFFIC FORECASTS

NOTE TO SCALE

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	4
CONST.	2016	47026-3279-14	4

REV. 22-AUG.-2014: ADDED NEW SHEET FOR LABELING THE BEGINNING OF RIGHT-OF-WAY PLANS.
REV. 7-NOV-2014: RENUMBERED SHEET FROM 31 TO 4.
REV. 16-JAN.-2015: TRACT 1 REVISED PROPOSED R.O.W. SLOPE EASEMENT AND CONSTRUCTION EASEMENT. REVISED BEGINING R.O.W. STA.
REV. 17-SEP-2015: ADDED BEARINGS AND DISTANCES ON TRACT 1 BOUNDARY.

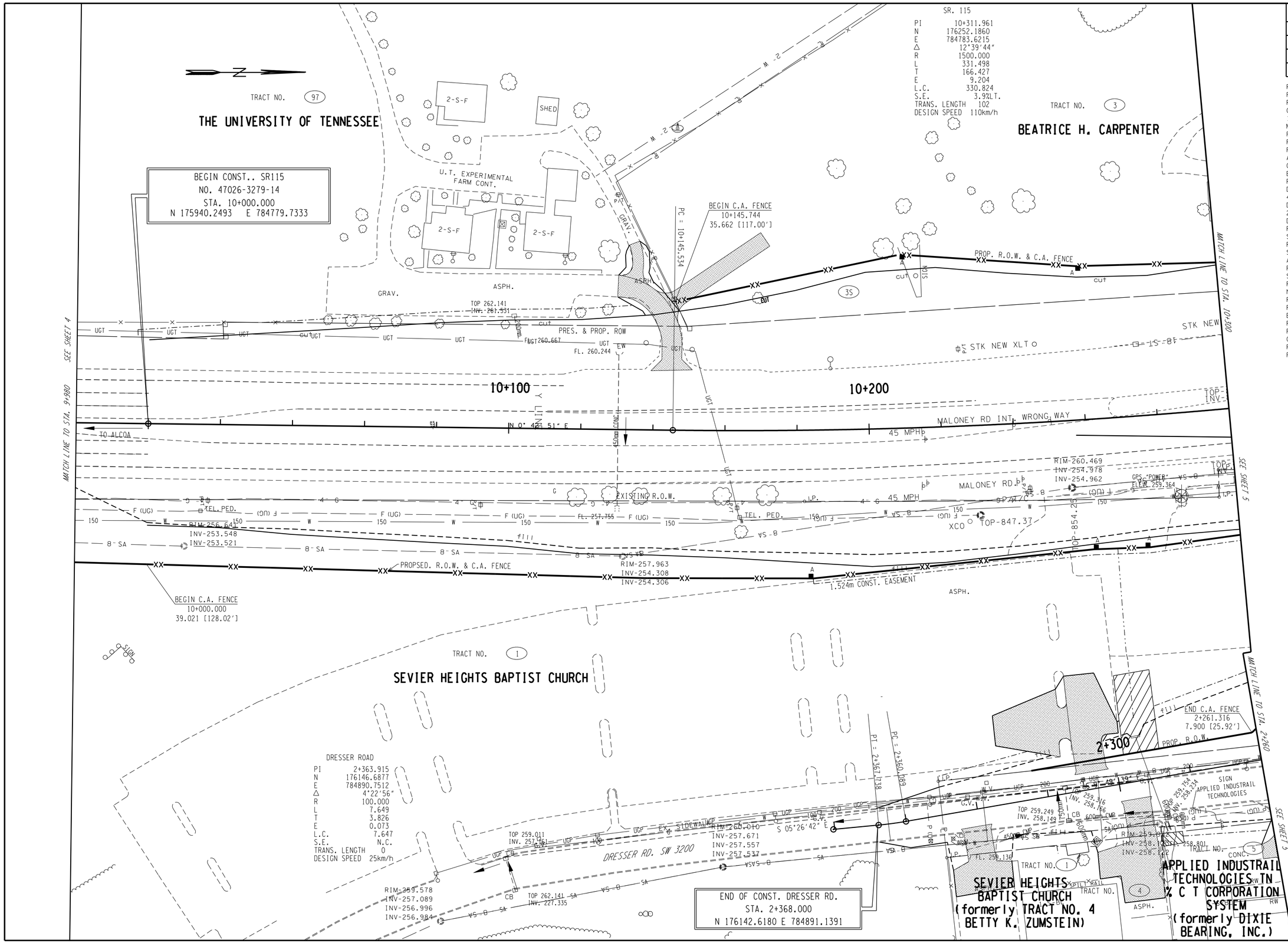


COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT
LAYOUT
STA. 9+930.582 - STA. 9+980

SCALE: 1:500



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	4A
CONST.	2016	47026-3279-14	4A

REV. 04-13-2001: ADDED SIGN IN FRONT OF TRACT #5
REV. 28-FEB-2003: MOVED BEGINNING OF C.A. FENCE LT. FROM STA. 10+000.000 TO STA. 10+217.000 MOVED BEGINNING OF C.A. FENCE RT. FROM STA 10+000.00 TO STA 10+222.243 REVISED R.O.W. FOR TRACT 1. CHANGED PAVEMENT WIDTH FOR DRESSER RD. ADJUSTED DRIVEWAYS TO ACCOMMODATE CURB & GUTTER. REVISED DRAINAGE EASEMENT ON TRACTS 4 AND 5.
REV. 15-MAR-2004: LABELED EX. DRIVEWAY TRACT 5 CONC. ADDED TRACT 4S DRAINAGE EASEMENT STA. 2+315± DRESSER ROAD. ADDED DRIVEWAY STA 2+307RT. RT. LOCATED BRIDGE AND DITCH STA. 2+290±.
REV. 24-SEP-2004: ADDED DRIVEWAY STA. 0+019 LT TRACT 1.
REV. 22-AUG.-2014: REVISED BEGINNING STATION FOR ROW PLANS, REVISED ROW AND EASEMENTS LIMITS.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMEMT. ADDED TRACTS 3S, REVISED R.O.W. AND EASEMENTS TRACT NO.1. RENUMBERED SHEET FROM 4 TO 4A.
REV. 16-JAN.-2015: TRACT 1 AND 3S REVISED PROPOSED R.O.W. SLOPE EASEMENT AND CONSTRUCTION EASEMENT. REVISED BEGINING R.O.W. STA.
REV. 24-APR.2015: ADDED SLOPE AND CONST. EASEMENT TRACT 97.
REV. 17-SEP-2015: ADDED DRIVEWAY FOR TRACT 3.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

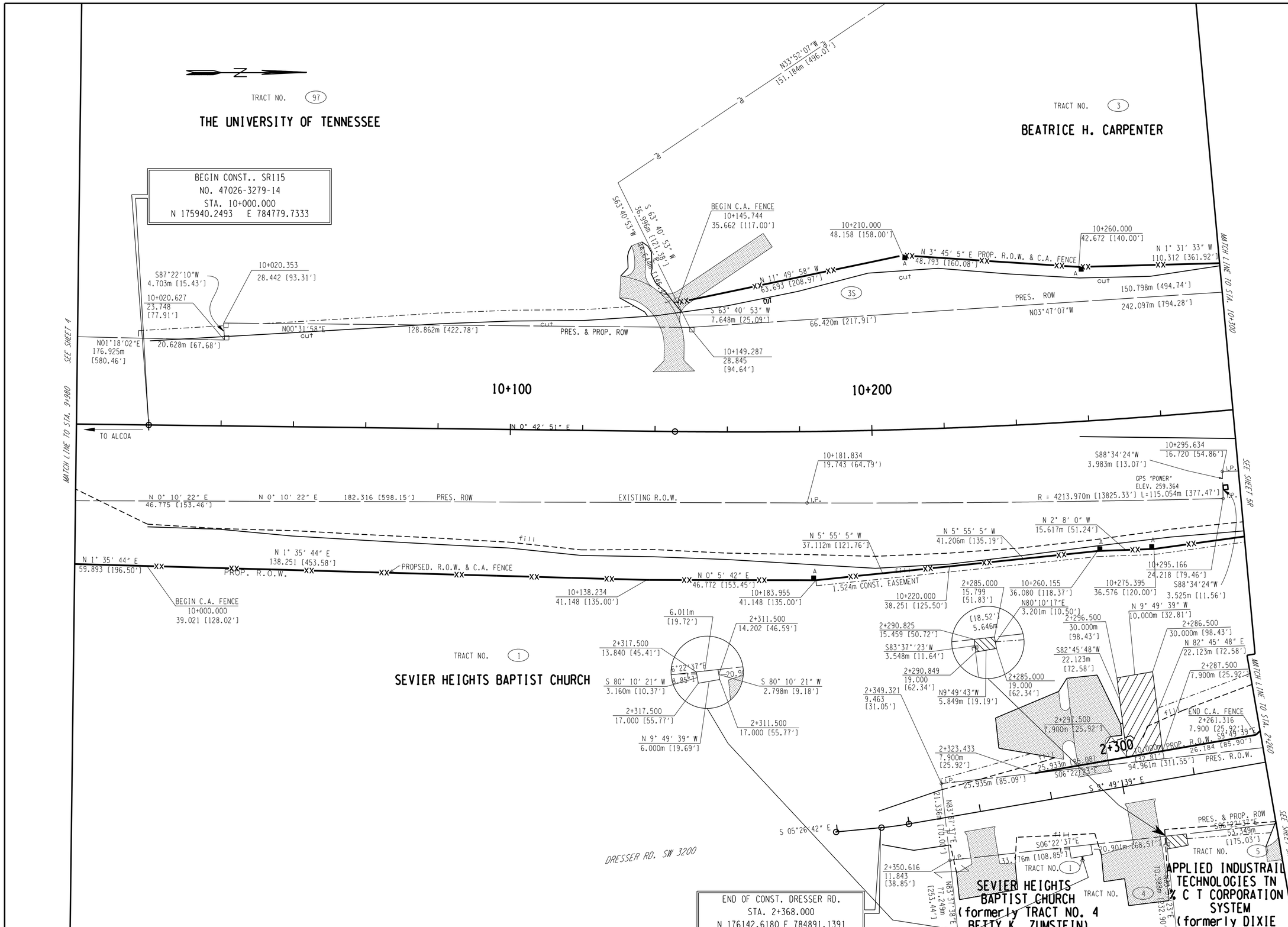
PRESENT LAYOUT

STA. 9+900 - STA. 10+300
STA. 2+260 - STA. 2+368

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	4R
CONST.	2016	47026-3279-14	4R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMEMT. ADDED TRACTS 3S, REVISED R.O.W. AND EASEMENTS TRACT NO.1
REV. 16-JAN.-2015: TRACT 1 AND 3S REVISED PROPOSED R.O.W., SLOPE EASEMENT AND CONSTRUCTION EASEMENT.
REV. 24-APR.2015: ADDED SLOPE AND CONST. EASEMENT TRACT 97.
REV. 17-SEP-2015: ADDED DRIVEWAY FOR TRACT 3.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

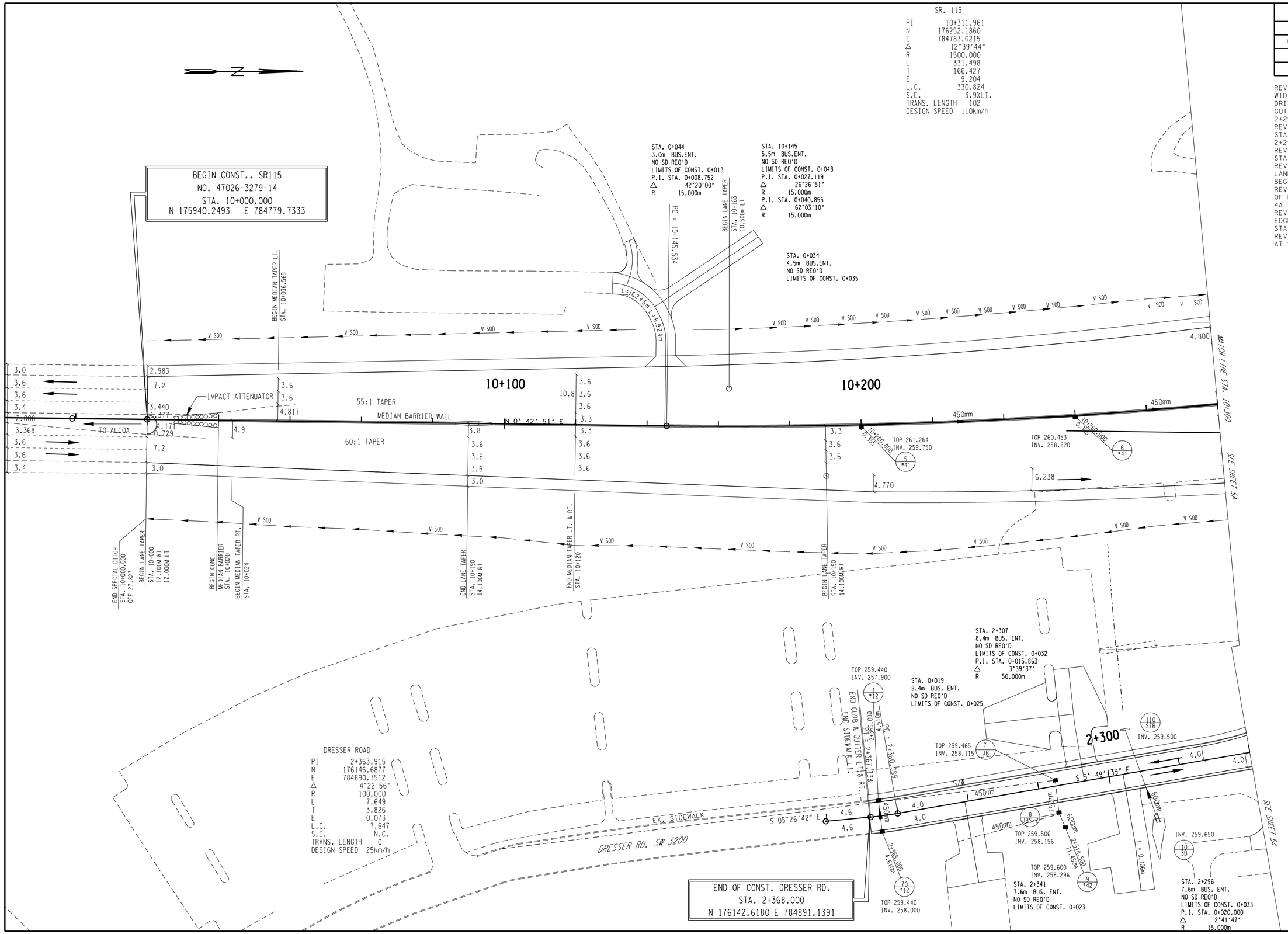
RIGHT-OF-WAY
DETAILS

STA. 10+000 - STA. 10+300
STA. 2+260 - STA. 2+368

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	4B
CONST.	2016	47026-3279-14	4B

REV. 28-FEB-2003: CHANGED PAVEMENT WIDTH FOR DRESSER RD. ADJUSTED DRIVEWAYS TO ACCOMMODATE CURB & GUTTER. ADDED 600mm PIPE @ STA. 2+293 & STA. 2+365 ON DRESSER RD.
REV. 15-MAR-2004: ADDED DRIVEWAY STA. 2+307 RT. REVISED PIPE STA 2+293.
REV. 24-SEP-2004: ADDED DRIVEWAY STA. 0+019 LT.
REV. 22-AUG.-2014: ADDED ADDITIONAL LANES TO ROADWAY SECTION AND REVISED BEGINNING LIMITS OF PROJECT.
REV. 7-NOV-2014: REVISED BEGINNING OF R.O.W. RENUMBERED SHEET FROM 4A TO 4B.
REV. 16-JAN.-2015: REVISED PROPOSED EDGE OF PAVEMENT SR115 FROM STA.10+000 TO STA. 10+351.
REV. 17-SEP-2015: ADDED DRIVEWAY AT STA. 0+034.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT

STA. 10+000 - STA. 10+300
STA. 2+260 - STA. 2+368

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	4C
CONST.	2016	47206-3279-14	4C

REV. 22-AUG.-2014: REVISED BEGINNING STATION FOR R.O.W. PLANS
REV. 7-NOV-2014: RENUMBERED SHEET FROM 4B TO 4C.

EARTHWORK BALANCES

STA. 10+000.000 TO STA. 12+721.500

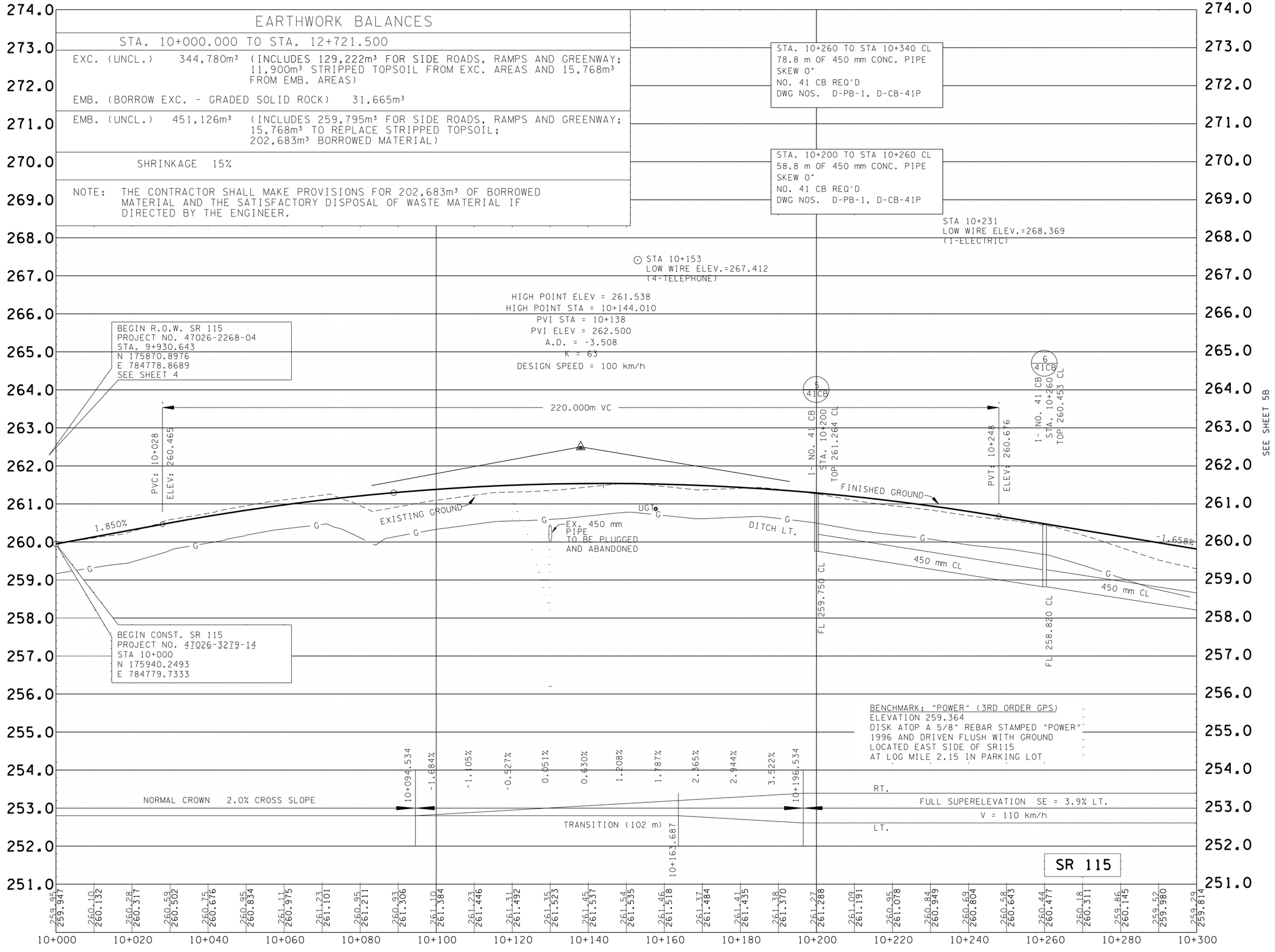
EXC. (UNCL.) 344,780m³ (INCLUDES 129,222m³ FOR SIDE ROADS, RAMPS AND GREENWAY; 11,900m³ STRIPPED TOPSOIL FROM EXC. AREAS AND 15,768m³ FROM EMB. AREAS)

EMB. (BORROW EXC. - GRADED SOLID ROCK) 31,665m³

EMB. (UNCL.) 451,126m³ (INCLUDES 259,795m³ FOR SIDE ROADS, RAMPS AND GREENWAY; 15,768m³ TO REPLACE STRIPPED TOPSOIL; 202,683m³ BORROWED MATERIAL)

SHRINKAGE 15%

NOTE: THE CONTRACTOR SHALL MAKE PROVISIONS FOR 202,683m³ OF BORROWED MATERIAL AND THE SATISFACTORY DISPOSAL OF WASTE MATERIAL IF DIRECTED BY THE ENGINEER.



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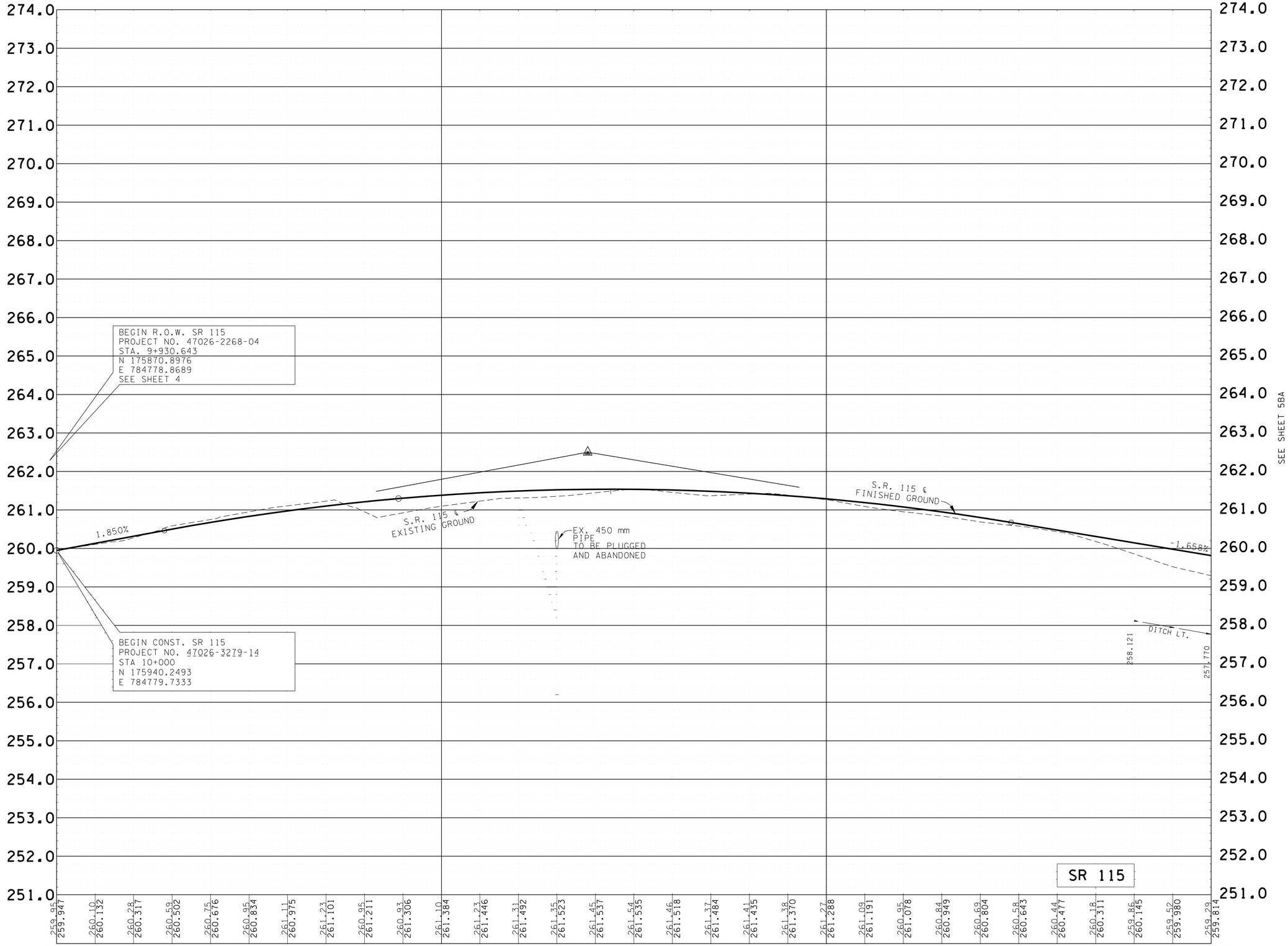
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
STATE ROUTE 115 C.L.

STA. 10+000
STA. 10+300

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	4CA



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

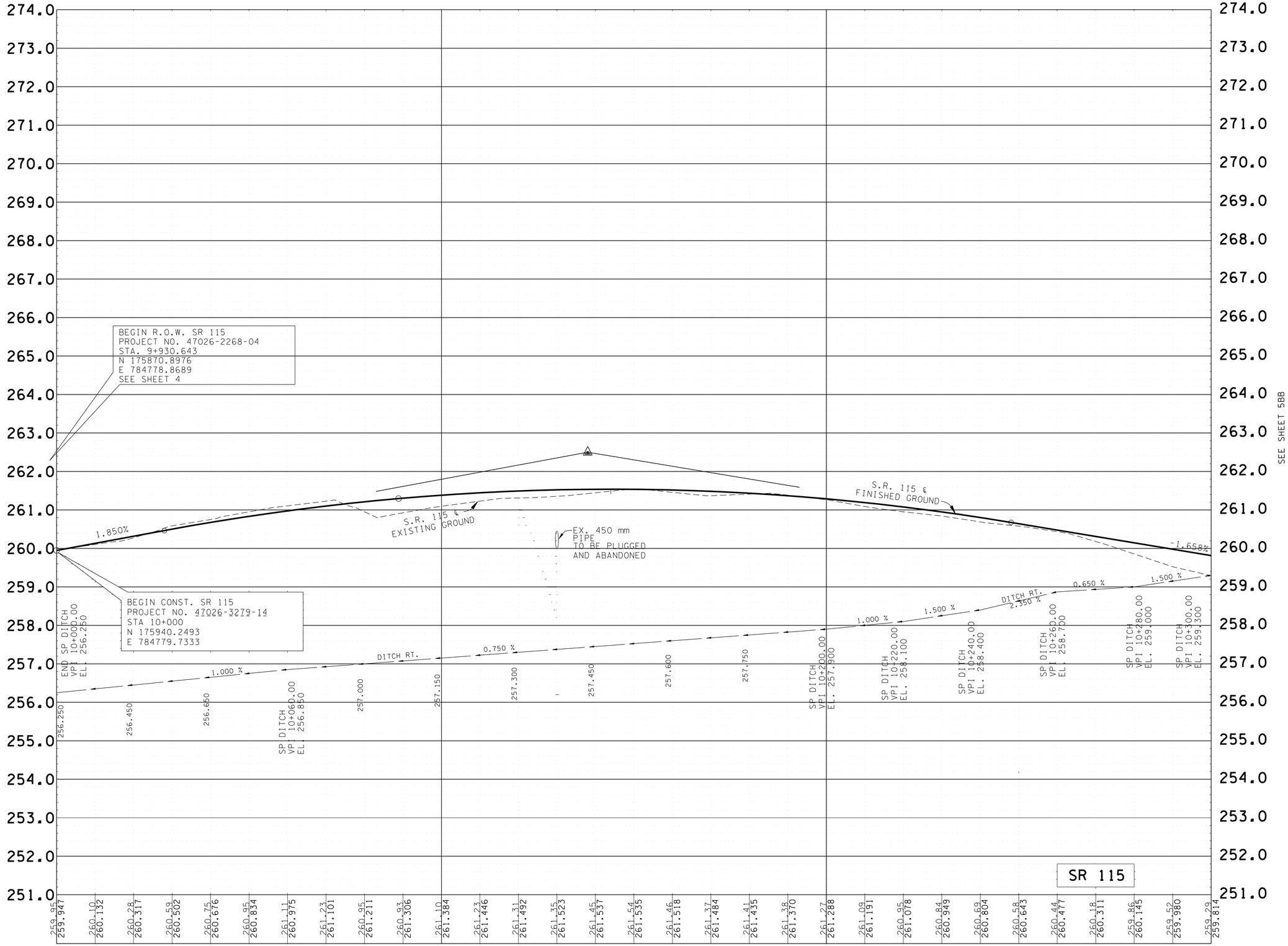
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
STATE ROUTE 115 LEFT

STA. 10+000
STA. 10+300

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	4CA



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
STATE ROUTE 115 RIGHT

STA. 10+000
STA. 10+300

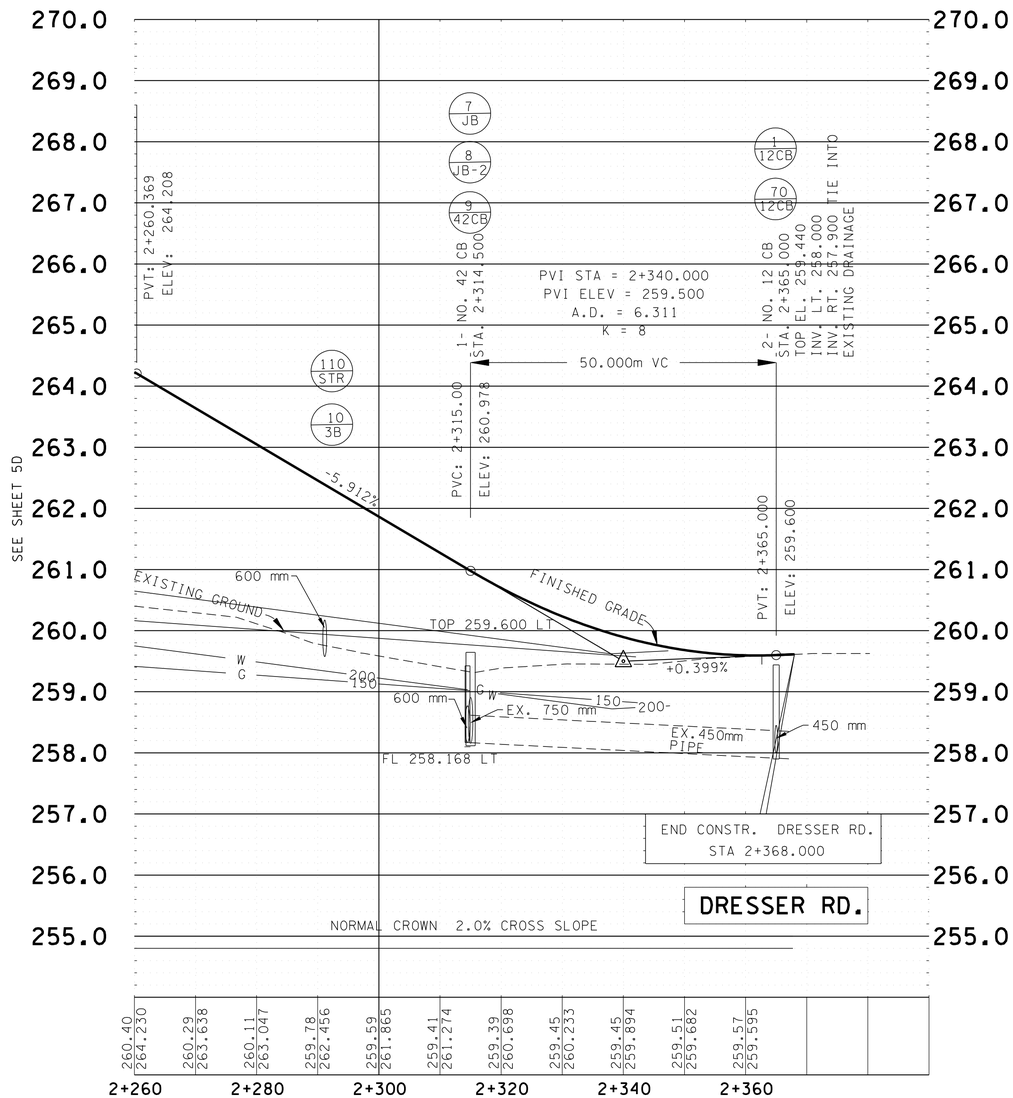
SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	4D
CONST.	2016	47026-3279-14	4D

REV. 28-FEB-2003: CLEANED UP SHEET. REVISED PROFILE OF DRESSER ROAD BETWEEN STA. 2+205 TO STA 2+368. ADDED 600mm PIPE @ STA. 2+293 & STA. 2+365 ON DRESSER RD.
REV. 22-AUG.-2014: REVISED PROFILE FOR DRESSER ROAD.
REV. 7-NOV-2014: RENUMBERED SHEET FROM 4C TO 4D.

STA. 2+288.250 AND STA. 2+314.500
5 & 4m OF 600 mm CONC. PIPE
TIE EACH TO EX. CB
2- NO.42 CB REQ'D
DWG NOS. D-PB-1, D-CB-42S

STA. 2+314
REPLACE EXISTING CB WITH D-JBS-2
STANDARD SQUARE JUNCTION BOXES



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

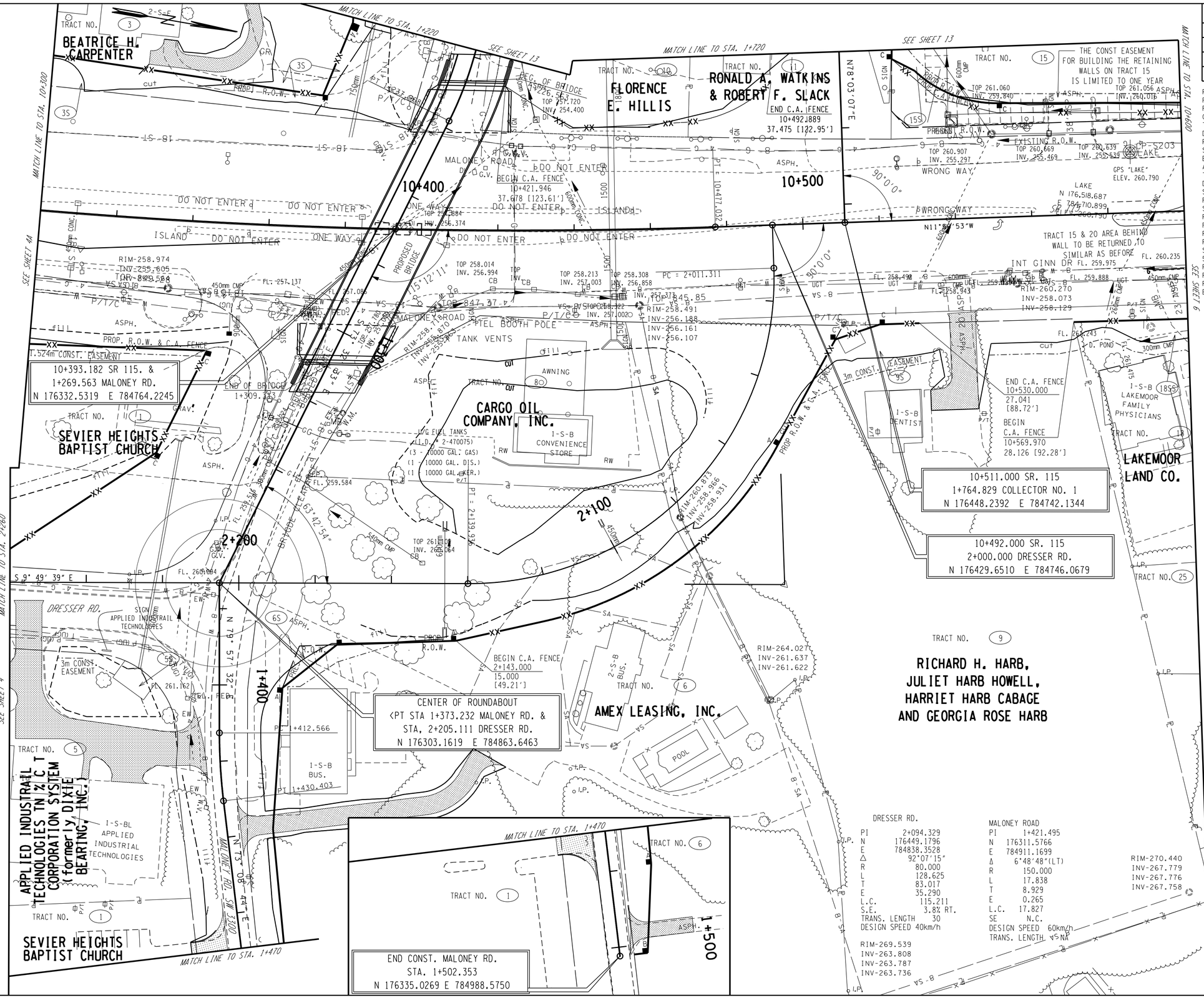
PROPOSED PROFILE
DRESSER ROAD

STA. 2+260
STA. 2+368

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	5

REV. 04-13-2001 ADDED SIGN IN FRONT OF TRACT #5
REV. 28-FEB-2003: REVISED R.O.W. ON TRACT 1. ADJUSTED DRIVEWAY TO ACCOMMODATE CURB & GUTTER ON DRESSER ROAD. ADDED TRACT #25.
REV. 15-MAR-2004: REMOVED SIDEDRAIN STA. 10+310±. SCARIFY REMAINDER OF EXISTING DRIVEWAY LT STA 10+370±. ADDED NOTE FOR CONST. EASEMENT TRACT 15. ADDED EXISTING 24' DRIVEWAY STA 1+494. REVISED DRIVEWAY STA 1+494 AND 1+497 MALONEY ROAD.
REV. 24-SEP-2004: ADDED SANITARY SEWER LINES TRACT NO. 6.
REV. 22-AUG.-2014: REVISED ROW PLANS, AND EASEMENT LIMITS ADDED ROUNDABOUT AND REVISED DRIVEWAYS.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMEMT. ADDED TRACTS 3S, 5S, 6S, 9S, 15S AND 18SS. REVISED R.O.W. AND EASEMENTS TRACT NO.1
REV. 16-JAN.-2015: TRACT 1 AND 3S REVISED PROPSED R.O.W. SLOPE EASEMENT AND CONSTRUCTION EASEMENT.



DRESSER RD.

PI	2+094.329
N	176449.1796
E	784838.3528
Δ	92°07'15"
R	80.000
L	128.625
T	83.017
E	35.290
L.C.	115.211
S.E.	3.8% RT.
TRANS. LENGTH	30
DESIGN SPEED	40km/h

RIM-269.539
INV-263.808
INV-263.787
INV-263.736

MALONEY ROAD

PI	1+421.495
N	176311.5766
E	784911.1699
Δ	6°48'48"(LT)
R	150.000
L	17.838
T	8.929
E	0.265
L.C.	17.827
SE	N.C.
DESIGN SPEED	60km/h
TRANS. LENGTH	N.A.

RIM-270.440
INV-267.779
INV-267.776
INV-267.758

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

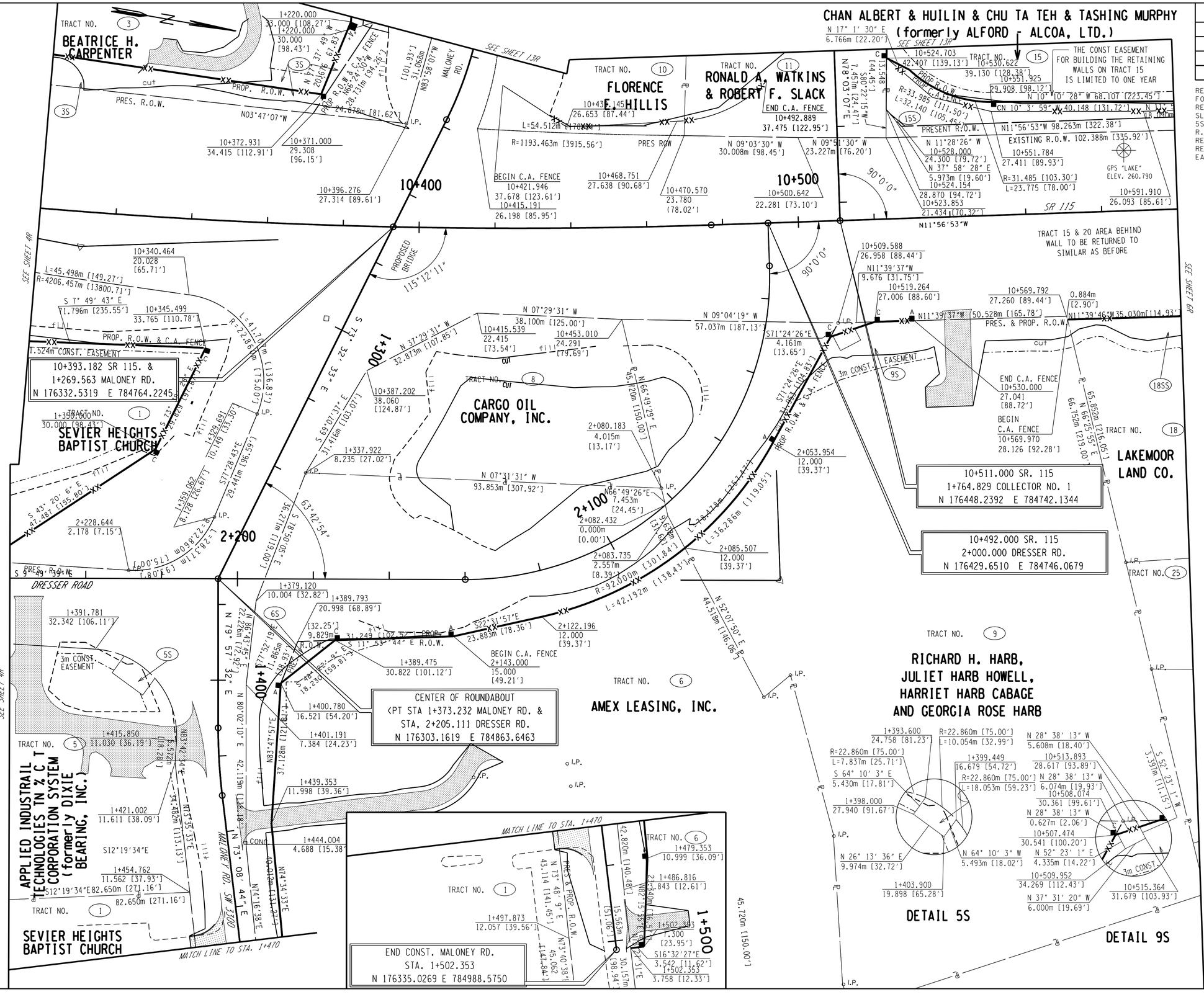
PRESENT LAYOUT

STA. 10+300 - STA. 10+600
STA. 1+220 - STA. 1+503
STA. 1+720 - STA. 1+764.829
STA.2+000 - STA. 2+260

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	5R
CONST.	2016	47026-3279-14	5R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMEMT. ADDED TRACTS 3S, 5S, 6S, 9S, 15S and 18SS. REVISED R.O.W. AND EASEMENTS TRACT NO.1
REV. 16-JAN.-2015: TRACT 1 AND 3S REVISED PROPOSED R.O.W. SLOPE EASEMENT AND CONSTRUCTION EASEMENT.



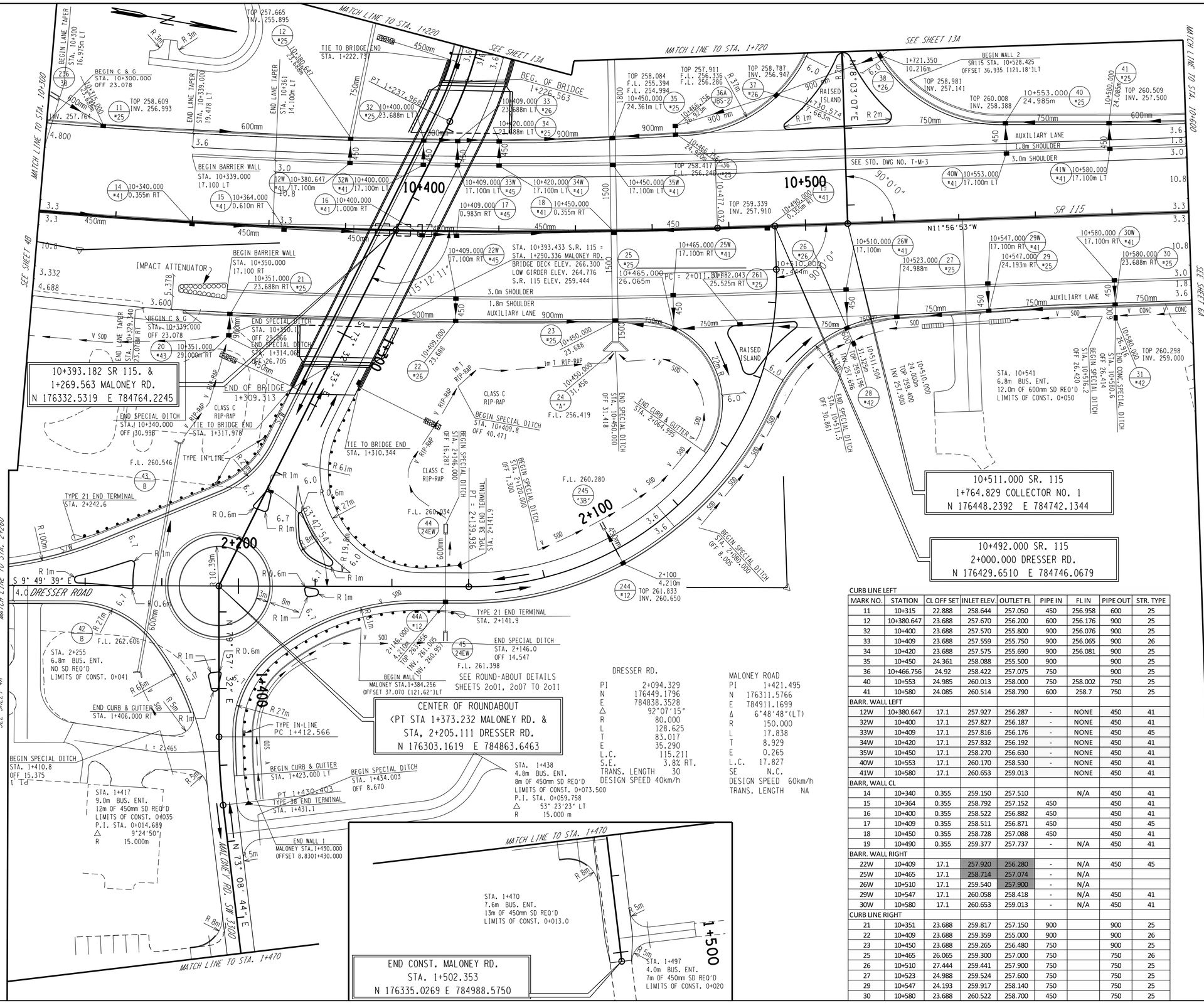
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS
STA. 10+300 - STA. 10+600
STA. 1+220 - STA. 1+503
STA. 1+720 - STA. 1+764.829
STA.2+000 - STA. 2+260
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	5A
CONST.	2016	47026-3279-14	5A

REV. 28-FEB-2003: ADDED CURB & GUTTER TO DRESSER RD. ADJUSTED DRIVEWAY TO ACCOMMODATE CURB & GUTTER ON DRESSER ROAD.
REV. 15-MAR-2004: ADDED DRIVEWAYS STA 1+494 AND 1+497 MALONEY ROAD.
REV. 22-AUG.-2014: ADDED ADDITIONAL LANES EACH SIDE TO ROADWAY SECTION AND REVISED SIDEROADS, DRIVEWAYS AND PIPE SECTION.
REV. 16-JAN.-2015: REVISED PROPOSED EDGE OF PAVEMENT SR115 FROM STA.10+000 TO STA. 10+351.



DRESSER RD.

PI	2+094.329
N	176449.1796
E	784838.3528
△	92°07'15"
R	80.000
L	128.625
T	83.017
E	35.290
L.C.	115.211
S.E.	3.8% RT.
TRANS. LENGTH	30
DESIGN SPEED	40km/h

MALONEY ROAD

PI	1+421.495
N	176311.5766
E	784911.1699
Δ	6°48'48"(LT)
R	150.000
L	17.838
T	8.929
E	0.265
L.C.	17.827
SE	N.C.
DESIGN SPEED	60km/h
TRANS. LENGTH	NA

MARK NO.	STATION	CL OFF SET	INLET ELEV.	OUTLET FL	PIPE IN	FL IN	PIPE OUT	STR. TYPE
CURB LINE LEFT								
11	10+315	22.888	258.644	257.050	450	256.958	600	25
12	10+380.647	23.688	257.670	256.200	600	256.176	900	25
32	10+400	23.688	257.570	255.800	900	256.076	900	25
33	10+409	23.688	257.559	255.750	900	256.065	900	26
34	10+420	23.688	257.575	255.690	900	256.081	900	25
35	10+450	24.361	258.088	255.500	900		900	25
36	10+466.756	24.92	258.422	257.075	750		900	25
40	10+553	24.985	260.013	258.000	750	258.002	750	25
41	10+580	24.085	260.514	258.790	600	258.7	750	25
BARR. WALL LEFT								
12W	10+380.647	17.1	257.927	256.287	-	NONE	450	41
32W	10+400	17.1	257.827	256.187	-	NONE	450	41
33W	10+409	17.1	257.816	256.176	-	NONE	450	45
34W	10+420	17.1	257.832	256.192	-	NONE	450	41
35W	10+450	17.1	258.270	256.630	-	NONE	450	41
40W	10+553	17.1	260.170	258.530	-	NONE	450	41
41W	10+580	17.1	260.653	259.013		NONE	450	41
BARR, WALL CL								
14	10+340	0.355	259.150	257.510		N/A	450	41
15	10+364	0.355	258.792	257.152	450		450	41
16	10+400	0.355	258.522	256.882	450		450	41
17	10+409	0.355	258.511	256.871	450		450	45
18	10+450	0.355	258.728	257.088	450		450	41
19	10+490	0.355	259.377	257.737	-	N/A	450	41
BARR. WALL RIGHT								
22W	10+409	17.1	257.920	256.280	-	N/A	450	45
25W	10+465	17.1	258.714	257.074	-	N/A		
26W	10+510	17.1	259.540	257.900	-	N/A		
29W	10+547	17.1	260.058	258.418	-	N/A	450	41
30W	10+580	17.1	260.653	259.013	-	N/A	450	41
CURB LINE RIGHT								
21	10+351	23.688	259.817	257.150	900		900	25
22	10+409	23.688	259.359	255.000	900		900	26
23	10+450	23.688	259.265	256.480	750		900	25
25	10+465	26.065	259.300	257.000	750		750	26
26	10+510	27.444	259.441	257.900	750		750	25
27	10+523	24.988	259.524	257.600	750		750	25
29	10+547	24.193	259.917	258.140	750		750	25
30	10+580	23.688	260.522	258.700	450		750	25

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

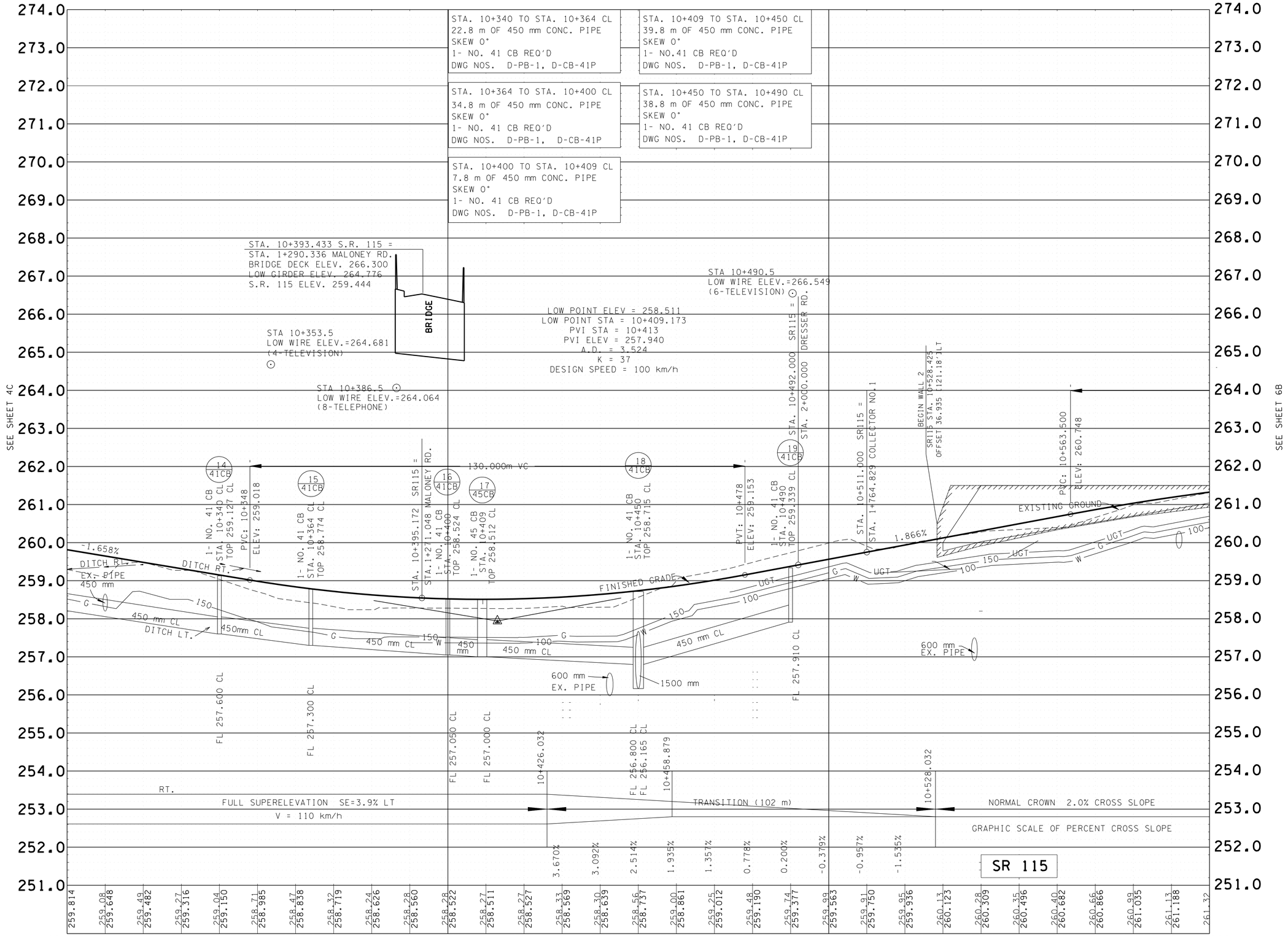
PROPOSED LAYOUT

STA. 10+300 - STA. 10+600
STA. 1+220 - STA. 1+503
STA. 1+720 - STA. 1+764.829
STA.2+000 - STA. 2+260

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	5B
CONST.	2016	47206-3279-14	5B

REV. 28-FEB-2003: REMOVED SIDE DRAIN STA. 10+320 LT.
REV. 22-AUG.-2014: REVISED BRIDGE DETAILS.



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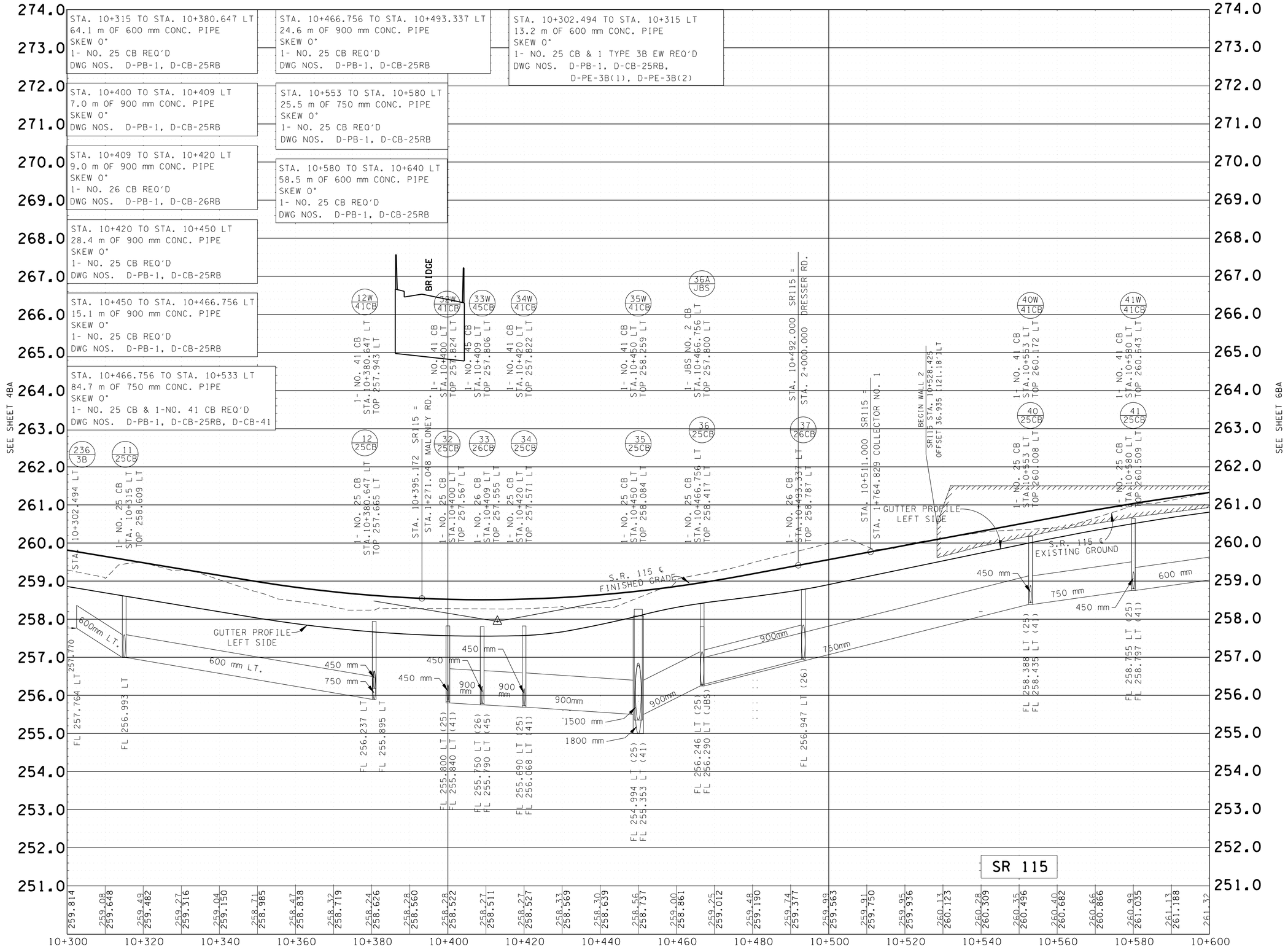
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
STATE ROUTE 115 C.L.

STA. 10+300
STA. 10+600

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	5BA



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

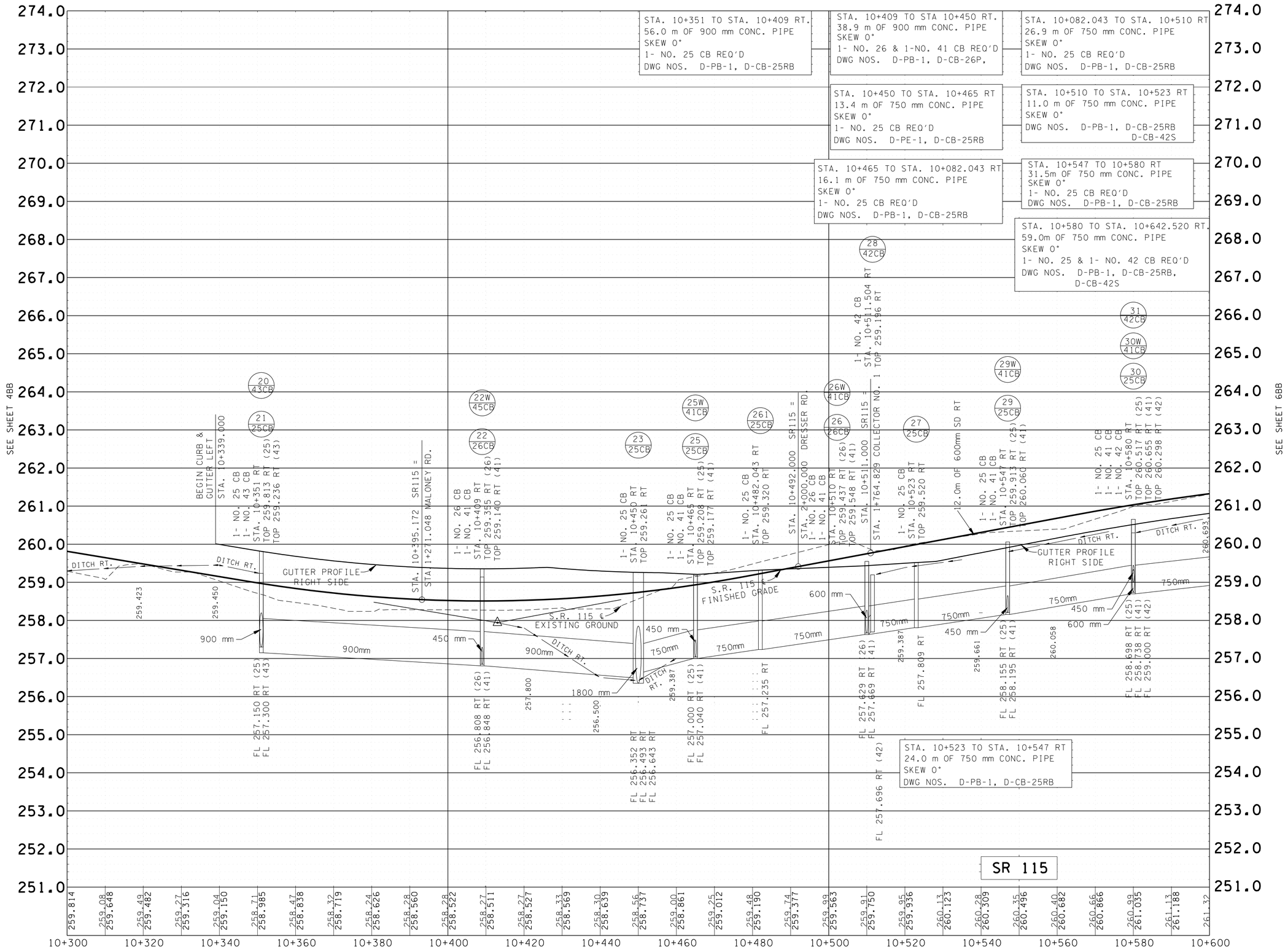
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 LEFT

STA. 10+300
STA. 10+600

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	5BB



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

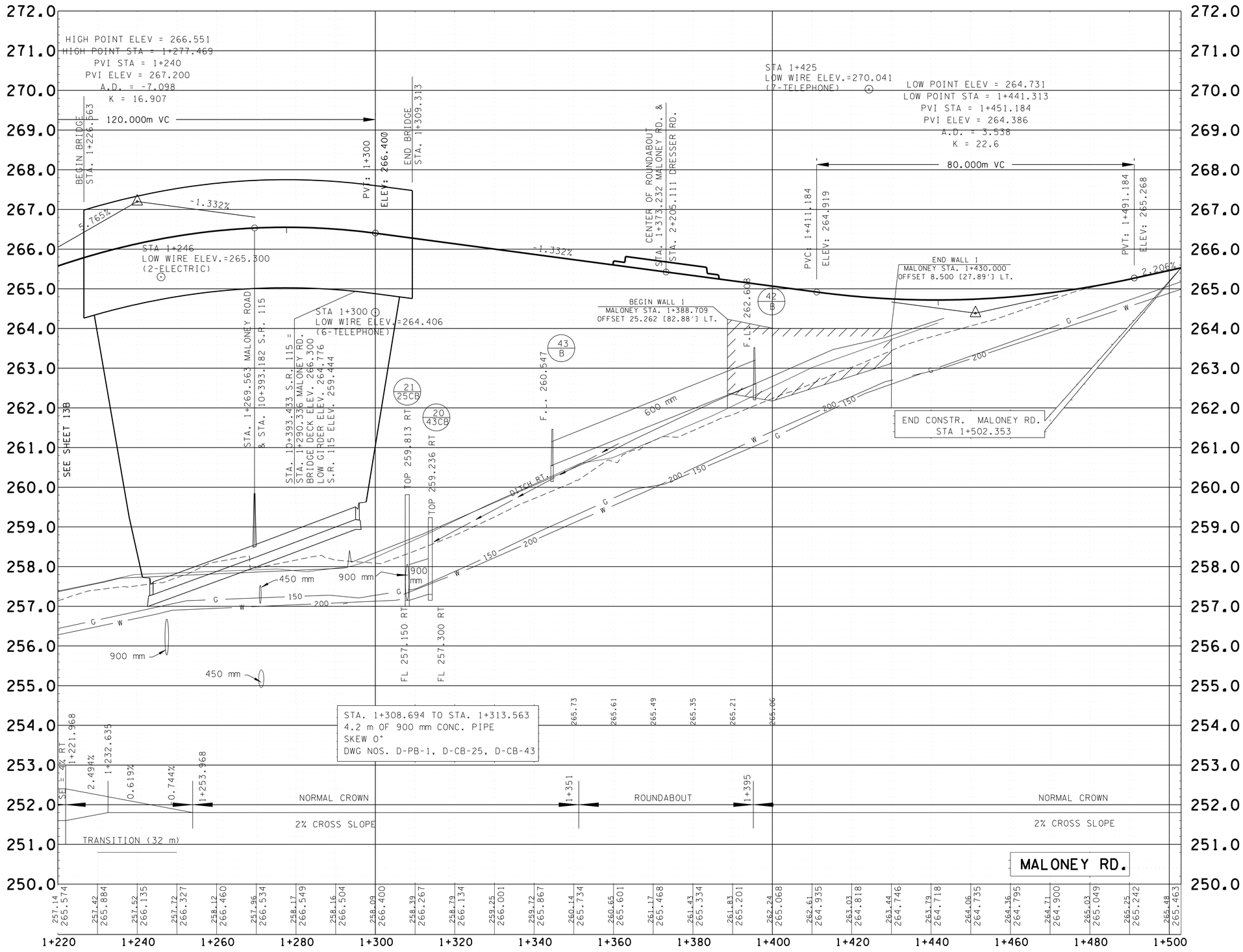
PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 RIGHT

STA. 10+300
STA. 10+600

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	5C
CONST.	2016	47026-3279-14	5C

REV. 28-FEB-2003: REVISED CROSS DRAIN STA. 2+222 DRESSER RD. (STA. 1+380±)
REV. 22-AUG.-2014: REVISED PROFILE OF MALONEY ROAD INCLUDING BRIDGE SECTION.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

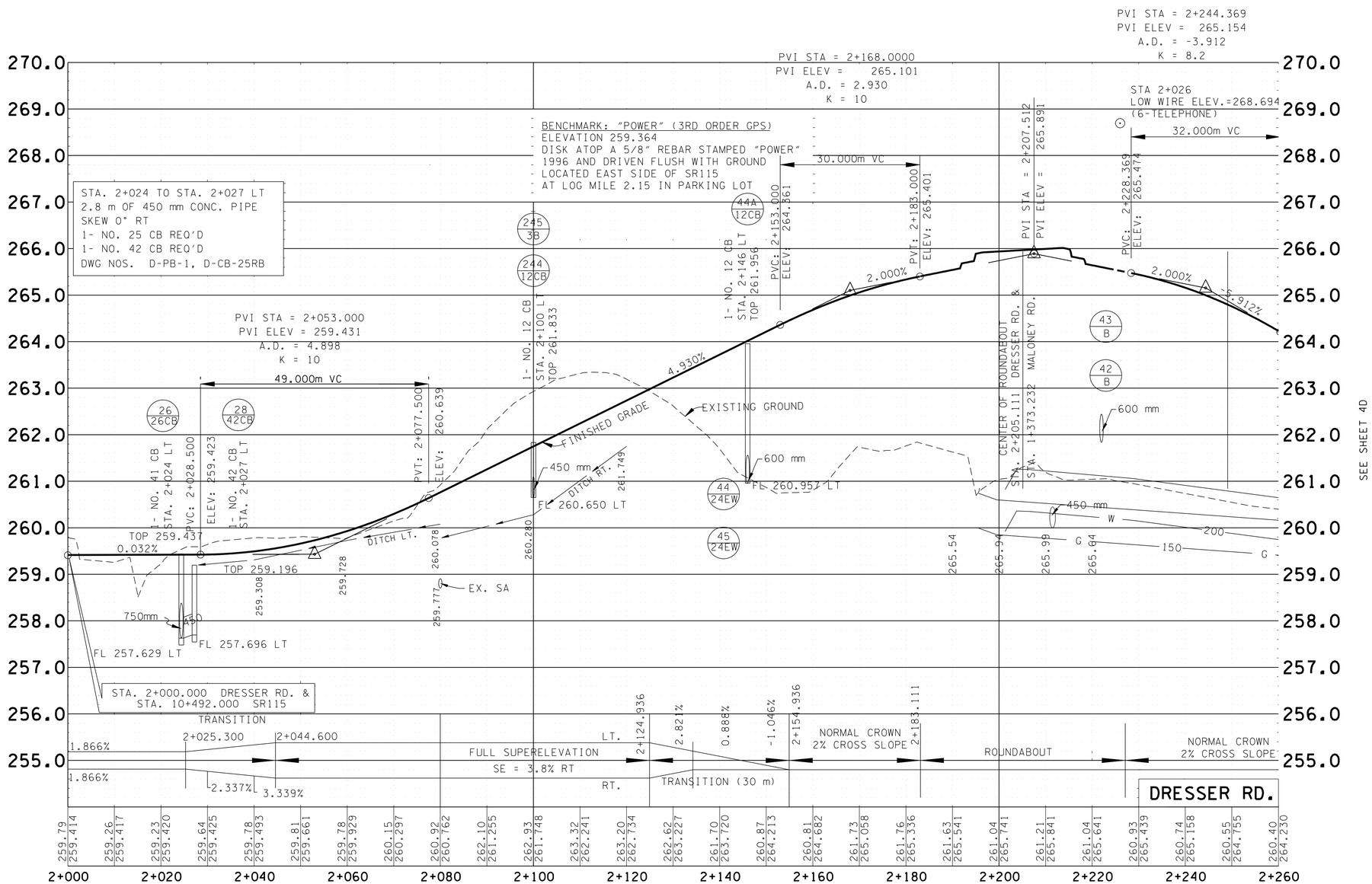
PROPOSED PROFILE
MALONEY ROAD

STA. 1+220
STA. 1+503

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	5D
CONST.	2016	47026-3279-14	5D

REV. 28-FEB-2003: REVISED PROFILE OF DRESSER ROAD BETWEEN STA. 2+205 TO STA 2+368
REV. 22-AUG.-2014: REVISED PROFILE OF DRESSER ROAD.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
DRESSER ROAD

STA. 2+000
STA. 2+260

SCALE HORIZ. 1:500
VERT. 1:50

THE CONST EASEMENT FOR BUILDING THE RETAINING WALLS ON TRACTS 15 & 20 IS LIMITED TO ONE YEAR

10+620.000 SR 115
3+000.000 SOUTH CIRCLE
N 176554.8779 E 784719.5685

10+702.000 SR 115
2+680.000 GINN ROAD LEFT
N 176635.1014 E 784702.5922

10+760.000 SR 115
2+800.000 GINN RD. RIGHT
N 176691.8449 E 784690.5847

LIMITS OF CONST. GINN RD. RIGHT
STA. 2+919.000
N 176735.0527 E 784799.1988

LIMITS OF CONST. SOUTH CIRCLE
STA. 3+150.000
N 176628.4293 E 784831.2006

SEE SHEET 14B FOR PROFILE OF GINN ROAD
SEE SHEET 14
MATCH LINE TO STA. 2+620
MATCH LINE TO STA. 10+600
MATCH LINE TO STA. 10+900
SEE SHEET 5
SEE SHEET 7

TRACT NO. 15 — 15S
TRACT NO. 20 — GUS & MARY KAMPAS, VICTOR & REBECCA KAMPAS
TRACT NO. 21 — VOLUNTEER VETERINARY 2-F-BUS — THOMAS J. BIHL JR. & SUSAN BIHL
TRACT NO. 27 — PILOT OIL CORPORATION
TRACT NO. 28 — RONALD E. BEVERLY (formerly TLC PROPERTIES, INC.)
TRACT NO. 30 — BATES NICHOLS GENERAL PARTNERSHIP (formerly HAROLD EUGENE LOVELACE)
TRACT NO. 22 — JAMES L. KENNEDY
TRACT NO. 19 — BETTY HARB AND RAMSEY J. & MARGARET ANN HARB
TRACT NO. 18 — LAKEMOOR LAND CO.
TRACT NO. 25 — MARGARET JEAN LARVEY QUICK (formerly MICHAEL JASON & TIFFANY JOHNSON FRENCH)
TRACT NO. 26 — WILLADEAN ROBERTA BOWERMAN SMITH (LIFE EST) & ALGER MONROE KING & BRENDA ELAINE KING (formerly WILLADEAN ROBERTA SMITH)
TRACT NO. 31 — WILLIAM L. IRWIN
TRACT NO. 23 — EUGENE & LORINE BOLINGER
TRACT NO. 24 — SCOTT DEAN & KAREN E. OWENS

END STR-2 IMPACT
SR 115
STA. 10+848.662
OFF 55.623m

TRACT 15 & 20 AREA BEHIND WALL TO BE RETURNED TO SIMILAR AS BEFORE

CONSTRUCTION EASEMENT TO FACILITATE DIVERSION FOR BOX CULVERT EXTENSION

SOUTH CIRCLE-1
PI 3+050.000
N 176,565.2292
E 784,768.4848
Δ 66° 11′ 59″ (LT)
R 40.000
L 46.216
T 26.076
E 7.749
SE 3.900% LT.
DESIGN SPEED 30 km/h
TRANS. LENGTH 28

SOUTH CIRCLE-2
PI 3+118.635
N 176,638.2100
E 784,783.8005
Δ 89° 48′ 25″ (RT)
R 40.000
L 62.697
T 39.865
E 16.643
SE 3.900%
DESIGN SPEED 30 km/h
TRANS. LENGTH 28

CURVE GINNRT-1
PI 2+875.065
N 176,707.3855
E 784,764.0238
Δ 26° 14′ 20″ (LT)
R 100.000
L 45.796
T 23.307
E 2.680
SE 2.900%
DESIGN SPEED 30Km/h
TRANS. LENGTH 23

GPS "LAKE"
N=176518.687
E=784710.899
EL.=260.790

TBAR & CAP
N=176674.359
E=784675.910
EL.=261.544

159.6
9.9 MAILBOX
3.84
16°31′45″
97°36′30″
EDGE OF PAVEMENT

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	6
CONST.	2016	47026-3279-14	6

REV. 04-13-2001: REVISED DRAINAGE EASEMENT ON TRACT #31. REVISED DISTANCE ON PROPOSED R.O.W. LT STA 10+800. ADDED CARPORT TO TRACT #26
REV. 28-FEB-2003: REVISED ALIGNMENT & R.O.W. FOR SOUTH CIRCLE. REMOVE DRIVEWAY STA. 10+894. CLEANED UP DRAFTING. REVISED SOUTH CIRCLE DRIVEWAYS. ADDED TRACT #25 & LINED OUT TRACT #24 NOT USED.
REV. 15-MAR-2004: RESTORED CONST. EASEMENT TRACT 26. HATCHED SLOPE EASEMENT TRACT 25. REVISED LOCATION OF TRACT 8024, RESTORED TRACT 24. ADDED CONST. EASEMENT FOR REMOVAL OF STRUCTURES TRACT 27. ADDED NOTE FOR CONST. EASEMENT ON TRACTS 15 & 20. ADDED TRACT 18S.
REV. 22-AUG.-2014: REVISED ROW PLANS, AND EASEMENT LIMITS. REVISED SIDEROADS, DRIVEWAYS AND CULVERT SECTIONS.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMEMT. ADDED TRACTS 15S, 18SS, 20S, 21S, 22S, 26S, 28S, 30S AND 31S. REVISED R.O.W. AND EASEMENTS TRACT NO.27.
REV. 16-JAN.-2015: TRACT 28S ADDED DRAINAGE EASEMENT, REVISED SLOPE AND CONSTRUCTION EASEMENT. REVISED EXISTING STREAM LOCATION.
REV. 24-APR-2015: REMOVED CONST. EASEMENT FOR REMOVAL OF STRUCTURES TRACT 27. TRACT 21S, REVISED CONST. EASEMENT TO MISS SIGN.
REV. 17-SEP-2015: DELINEATED CONSTRUCTION EASEMENT TRACT 28S.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

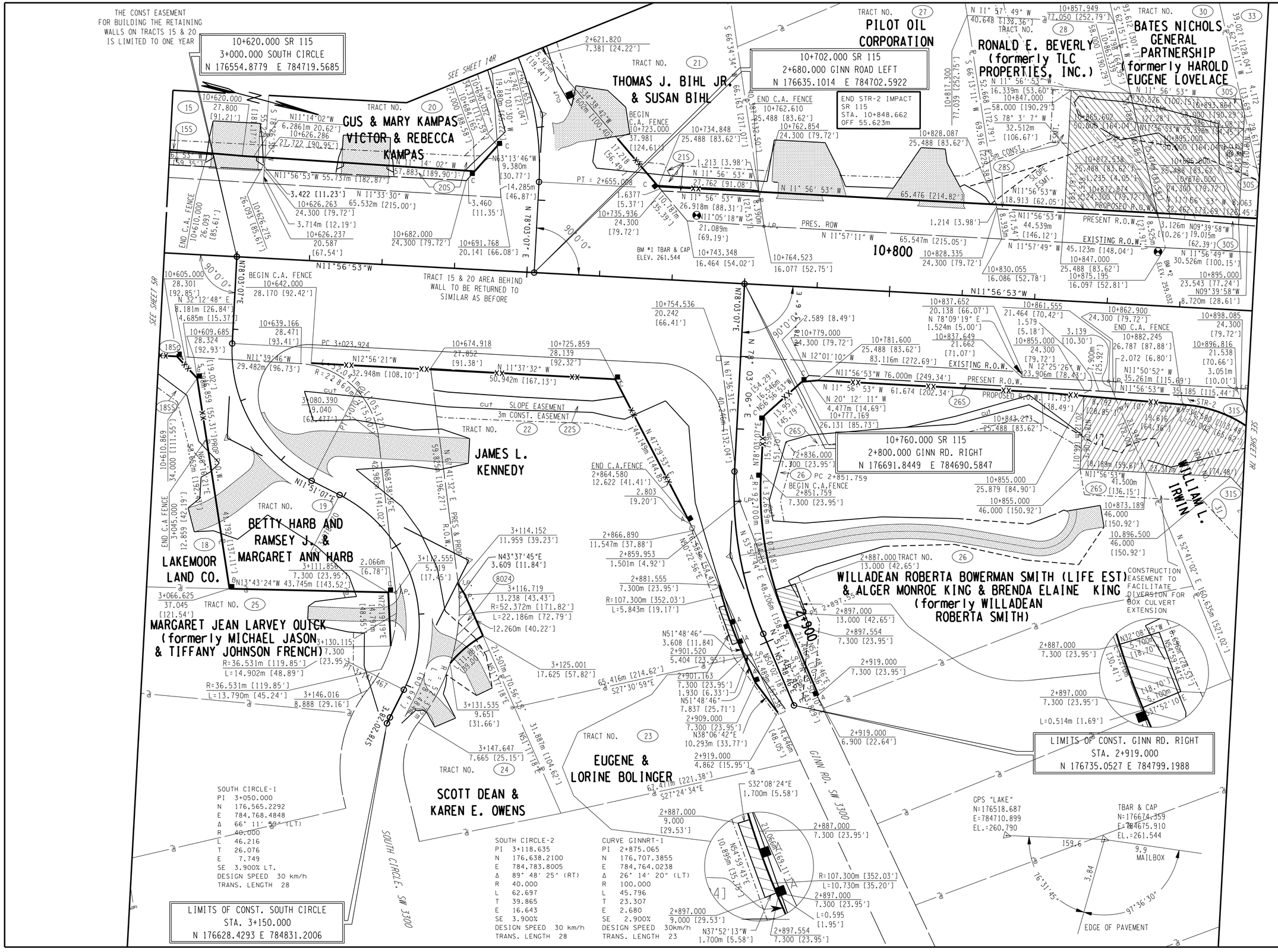
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.10+600 - STA.10+900
STA.2+620 - STA.2+680
STA.2+800 - STA.2+919
STA.3+000 - STA.3+150
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	6R
CONST.	2016	47026-3279-14	6R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMEMT. ADDED TRACTS 15S, 18SS, 20S, 21S, 22S, 26S, 28S, 30S AND 31S. REVISED R.O.W. AND EASEMENTS TRACT NO.27.
REV. 16-JAN.-2015: TRACT 28S ADDED DRAINAGE EASEMENT, REVISED SLOPE AND CONSTRUCTION EASEMENT. REVISED EXISTING STREAM LOCATION.
REV. 24-APR-2015: REMOVED CONST. EASEMENT FOR REMOVAL OF STRUCTURES TRACT 27. TRACT 21S, REVISED CONST. EASEMENT TO MISS SIGN.
REV. 17-SEP-2015: DELINEATED CONSTRUCTION EASEMENT TRACT 28S.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

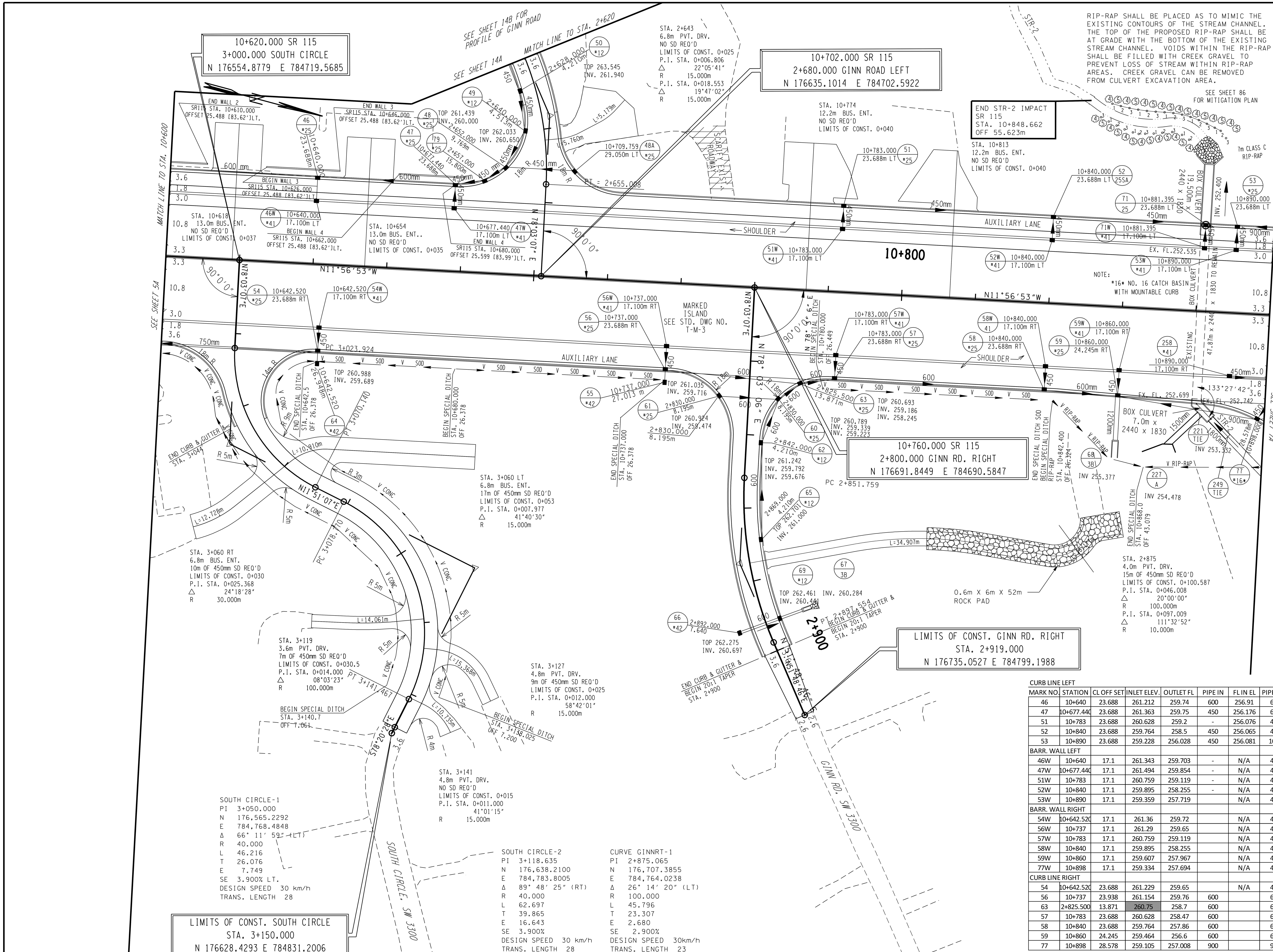
RIGHT-OF-WAY DETAILS

STA.10+600 - STA.10+900
STA.2+620 - STA.2+680
STA.2+800 - STA.2+919
STA.3+000 - STA.3+150

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	6A
CONST.	2016	47026-3279-14	6A

REV. 04-13-2001: REVISED DRIVEWAY STA. 10+894
REV. 28-FEB-2003: REVISED ALIGNMENT FOR SOUTH CIRCLE. REMOVE DRIVEWAY STA. 10+894. CLEANED UP DRAFTING. REVISED SOUTH CIRCLE DRIVEWAYS. ADDED CATCHBASIN #77 FROM SHEET 7A.
REV. 22-AUG.-2014: ADDED ADDITIONAL LANES EACH SIDE OF ROADWAY SECTION AND REVISED SIDE ROADS, DRIVEWAYS AND CULVERT SECTIONS.
REV. 16-JAN.-2015: TRACT 28S REVISED EXISTING STREAM LOCATION. ADDED STREAM RELOCATION AND TREES. REVISED STRUCTURE 71 FROM HEADWALL TO CATCH BASIN.
REV. 17-SEP-2015: ADDED ROCK PAD UNDER DRIVEWAY STA. 2+875.



MARK NO.	STATION	CL OFF SET	INLET ELEV.	OUTLET FL	PIPE IN	FL IN EL	PIPE OUT	STR. TYPE
CURB LINE LEFT								
46	10+640	23.688	261.212	259.74	600	256.91	600	25
47	10+677.440	23.688	261.363	259.75	450	256.176	600	25
51	10+783	23.688	260.628	259.2	-	256.076	450	25
52	10+840	23.688	259.764	258.5	450	256.065	450	25SA
53	10+890	23.688	259.228	256.028	450	256.081	1050	25
BARR. WALL LEFT								
46W	10+640	17.1	261.343	259.703	-	N/A	450	41
47W	10+677.440	17.1	261.494	259.854	-	N/A	450	41
51W	10+783	17.1	260.759	259.119	-	N/A	450	41
52W	10+840	17.1	259.895	258.255	-	N/A	450	41
53W	10+890	17.1	259.359	257.719		N/A	450	41
BARR. WALL RIGHT								
54W	10+642.520	17.1	261.36	259.72		N/A	450	41
56W	10+737	17.1	261.29	259.65		N/A	450	41
57W	10+783	17.1	260.759	259.119		N/A	450	41
58W	10+840	17.1	259.895	258.255		N/A	450	41
59W	10+860	17.1	259.607	257.967		N/A	450	41
77W	10+898	17.1	259.334	257.694		N/A	450	41
CURB LINE RIGHT								
54	10+642.520	23.688	261.229	259.65		N/A	450	25
56	10+737	23.938	261.154	259.76	600		600	25
63	2+825.500	13.871	260.75	258.7	600		600	25
57	10+783	23.688	260.628	258.47	600		600	25
58	10+840	23.688	259.764	257.86	600		600	25
59	10+860	24.245	259.464	256.6	600		600	25
77	10+898	28.578	259.105	257.008	900		900	26

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

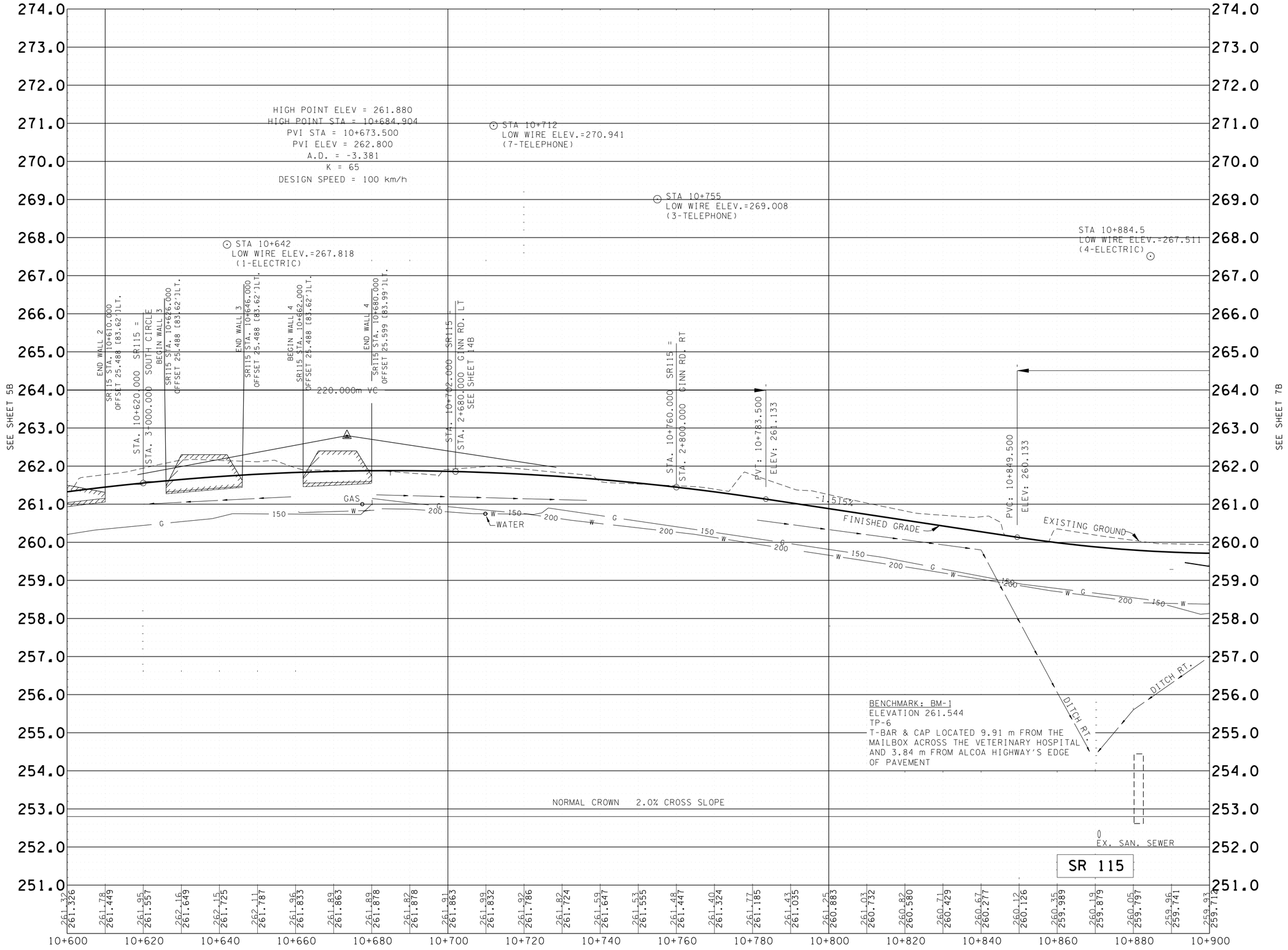
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT

STA.10+600 - STA.10+900
STA.2+620 - STA.2+680
STA.2+800 - STA.2+919
STA.3+000 - STA.3+150
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	6B
CONST.	2016	47206-3279-14	6B

REV. 28-FEB-2003: ADDED CATCHBASIN # 77 FROM SHEET 7B.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

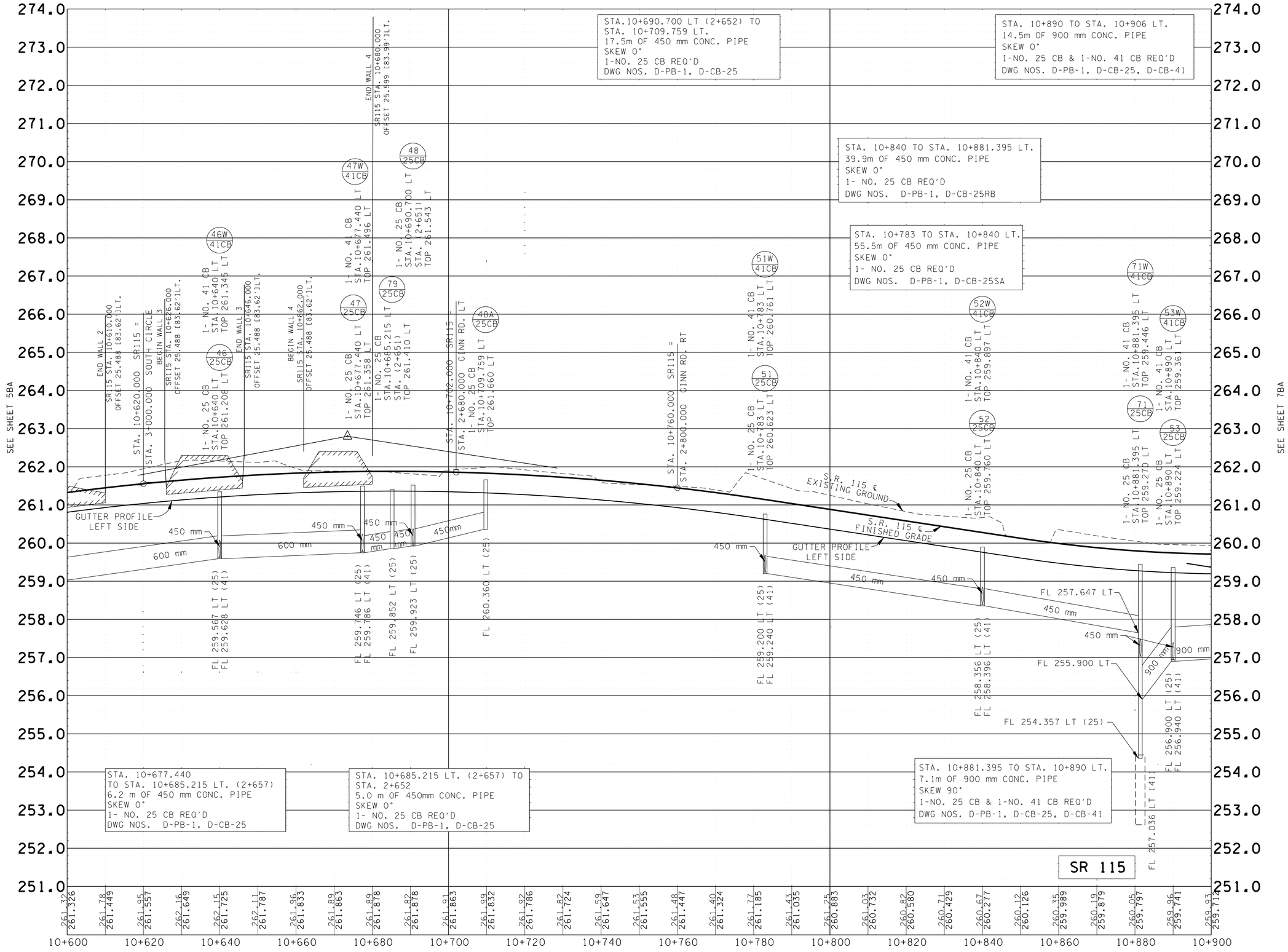
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
STATE ROUTE 115 C.L.

STA. 10+600
STA. 10+900

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	6BA



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

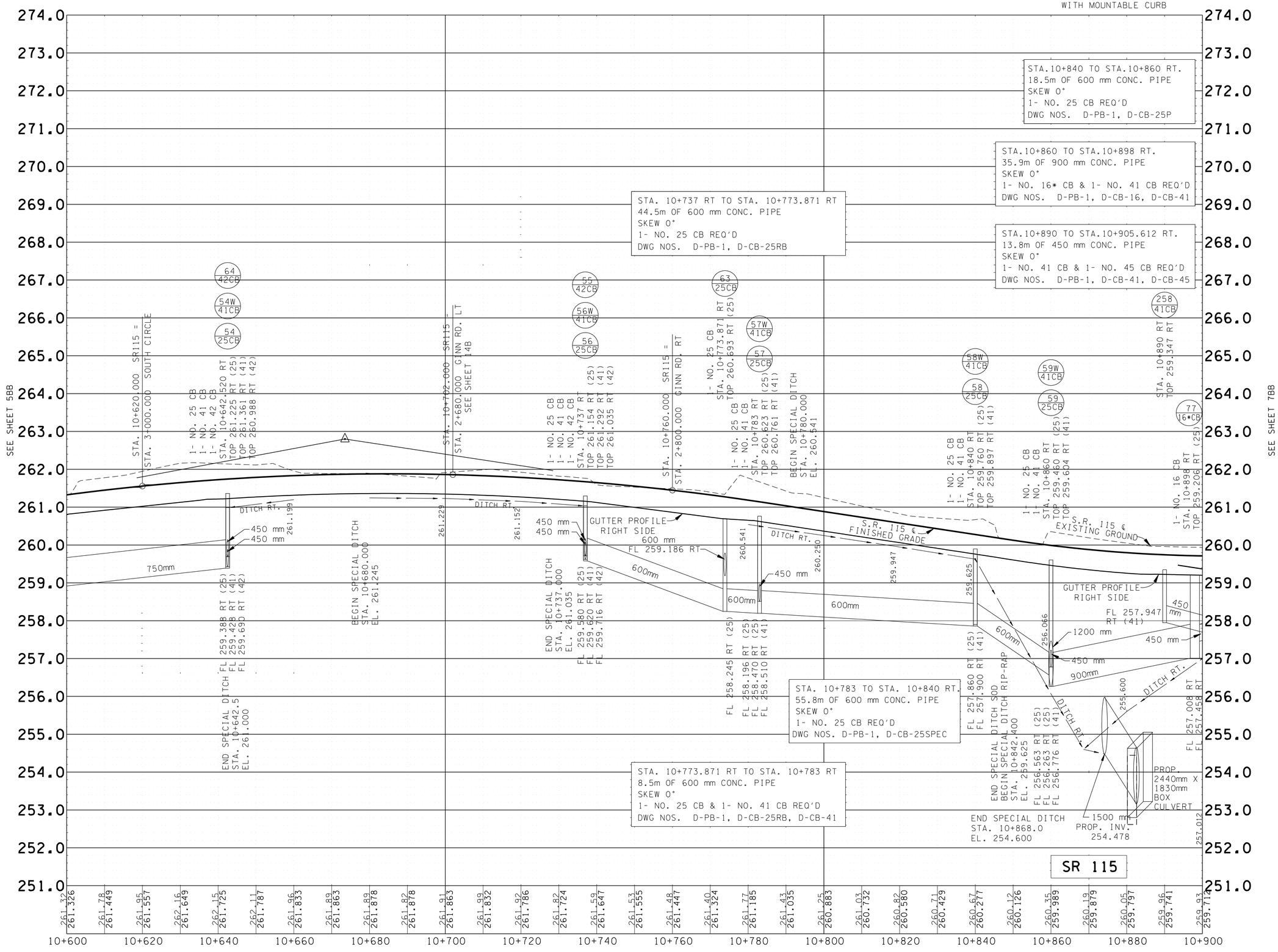
PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 LEFT

STA. 10+600
STA. 10+900

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	6BB

NOTE:
16* NO. 16 CATCH BASIN
WITH MOUNTABLE CURB



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 RIGHT

STA. 10+600
STA. 10+900

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	6C
CONST.	2016	47026-3279-14	6C

REV. 28-FEB-2003: REVISED PROFILE AND ALIGNMENT FOR SOUTH CIRCLE.
REV. 22-AUG.-2014: REVISED PROFILE OF GINN ROAD RT. AND SOUTH CIRCLE.

STA. 2+869 TO 2+840 LT.
27.8 m OF 600 mm CONC. PIPE
SKEW 0°
1- NO. 12 CB REQ'D
DWG NOS. D-PB-1, D-CB-12P

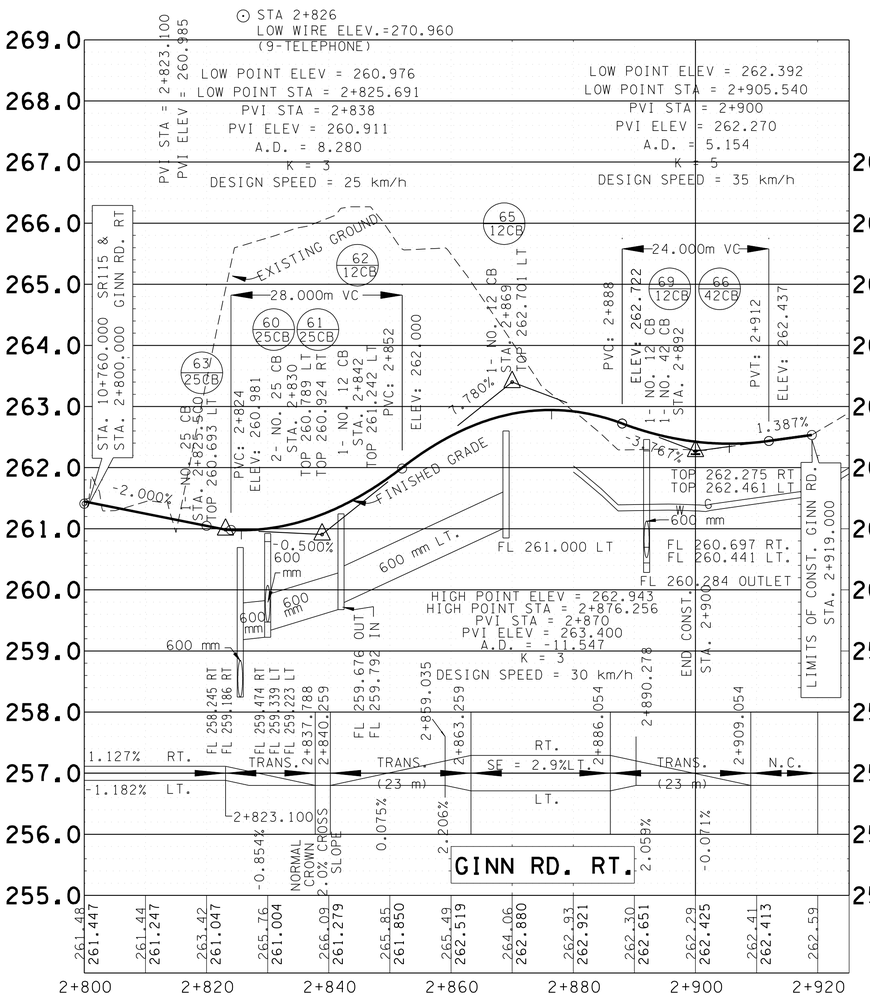
STA. 2+840 TO 2+830 LT.
7.3m OF 600 mm CONC. PIPE
SKEW 90°
1- NO. 25 CB'S REQ'D
DWG NOS. D-PB-1, D-CB-25P

STA. 2+830 RT. TO 2+830 LT.
10.0 m OF 600 mm CONC. PIPE
SKEW 90°
1-NO. 25 CB REQ'D
DWG NO. D-PB-1,D-CB-25

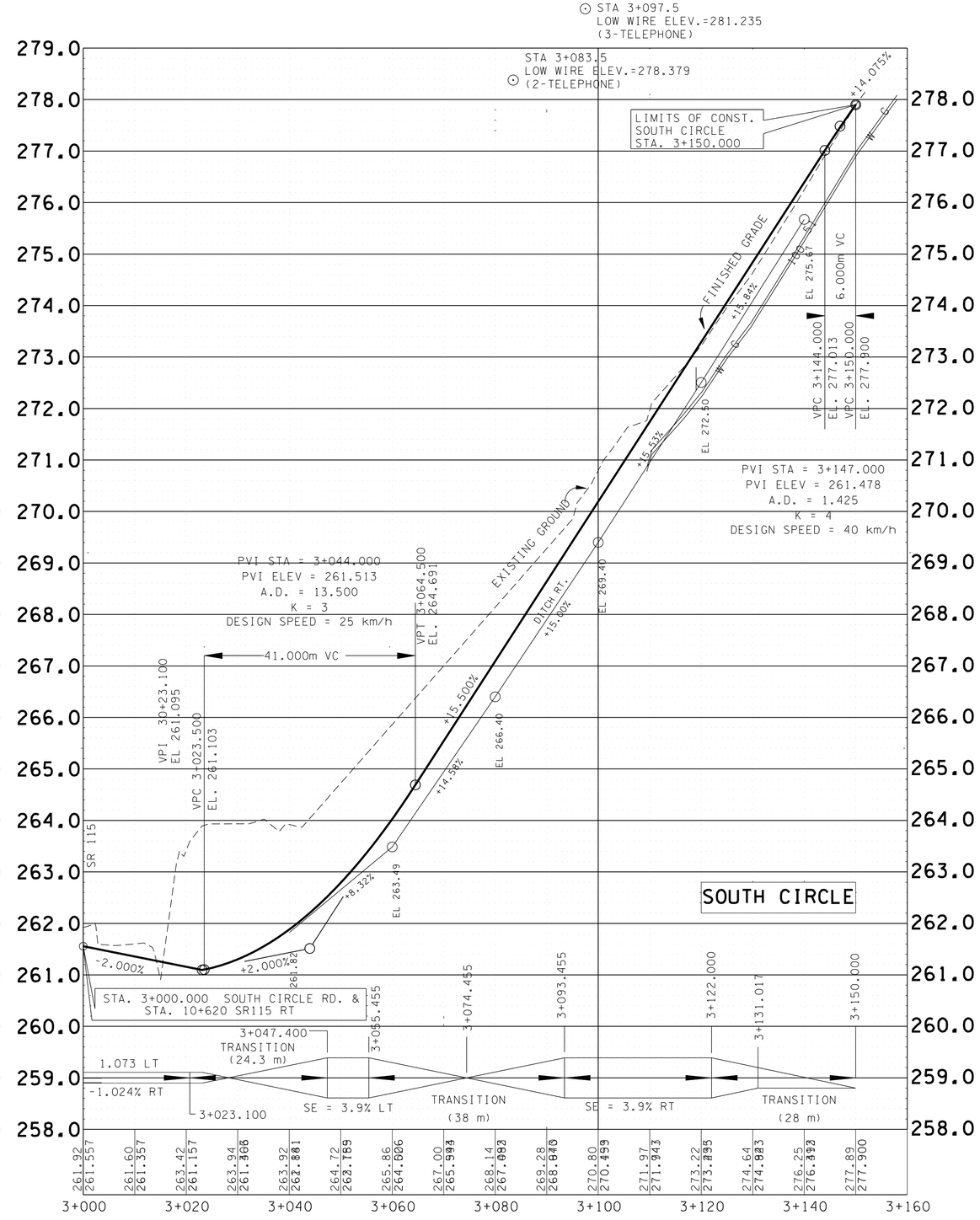
STA. 2+830 TO 2+824 LT.
5.3 m OF 600 mm CONC. PIPE
SKEW 0°
1-NO. 25 CB REQ'D
DWG NO. D-PB-1,D-CB-25P

STA. 2+824 TO STA. 10+783
8.0 m OF 600 mm CONC. PIPE
SKEW 0°
1- NO. 25 CB REQ'D
DWG NOS. D-PB-1, D-CB-25P

SEE CULVERT SECTION
STA. 2+892



GINN RD. RT.



SOUTH CIRCLE

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

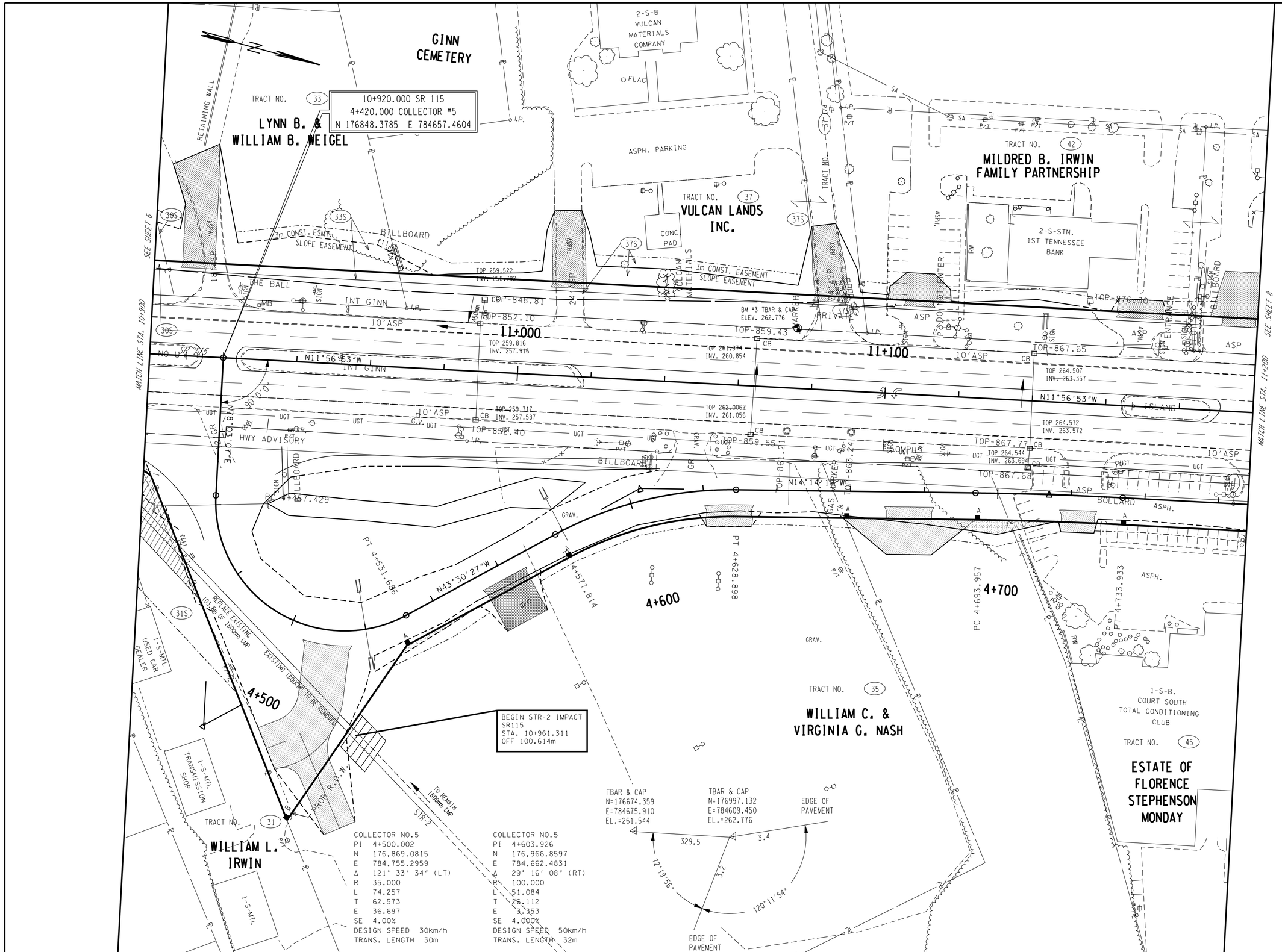
PROPOSED PROFILE

GINN STREET RIGHT
SOUTH CIRCLE
STA.2+800 - STA.2+919
STA.3+000 - STA.3+150

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	7
CONST.	2016	47026-3279-14	7

REV. 04-13-2001: REMOVED BRIDGE @ STA.11+090.542 SR115 AND VULCAN ROAD. REVISED PROP R.O.W. AND ADDED DRIVEWAYS. ADDED MOBILE HOMES TO TRACT #35
REV. 28-FEB-2003: ADDED ALIGNMENT & DRIVEWAYS FOR COLLECTOR NO.5 & REVISED R.O.W. CLEANED UP DRAFTING.
REV. 15-MAR-2004: REMOVED MOBILE HOMES TRACT 35. REVISED DRIVEWAYS ON TRACT 42 & 45. ADDED EXISTING PARKING SPACES TRACT 45. REVISED CONST EASEMENT TRACT 42 FOR REMOVAL OF STRUCTURES.
REV. 24-SEP-2004: ADD DRIVEWAYS TRACT 35 STA. 0+030LT AND 4+560RT MOVED DRIVEWAY FROM STA 10+913 LT TO STA 10+912 LT. AND WIDENED.
REV. 31-MAR-2006: REMOVED CONSTRUCTION EASEMENT FOR REMOVAL OF STRUCTURES, AND ADDED 9M BUSINESS ENTRANCE LEFT OF 11+195 LT TRACT 42.
REV. 22-AUG.-2014: REVISED ROW AND EASEMENT LIMITS. REVISED SIDEROADS, DRIVEWAYS AND CULVERT SECTIONS.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMEMT. ADDED TRACTS 30S, 31S, 33S, AND 37S . REVISED R.O.W. AND EASEMENTS TRACT NO.42. ADDED LAND HOOK TRACTS 37 AND 42.



COLLECTOR NO.5
PI 4+500.002
N 176,869.0815
E 784,755.2959
Δ 121° 33' 34" (LT)
R 35.000
L 74.257
T 62.573
E 36.697
SE 4.00%
DESIGN SPEED 30km/h
TRANS. LENGTH 30m

COLLECTOR NO.5
PI 4+603.926
N 176,966.8597
E 784,662.4831
Δ 29° 16' 08" (RT)
R 100.000
L 51.084
T 26.112
E 3.353
SE 4.000%
DESIGN SPEED 50km/h
TRANS. LENGTH 32m

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

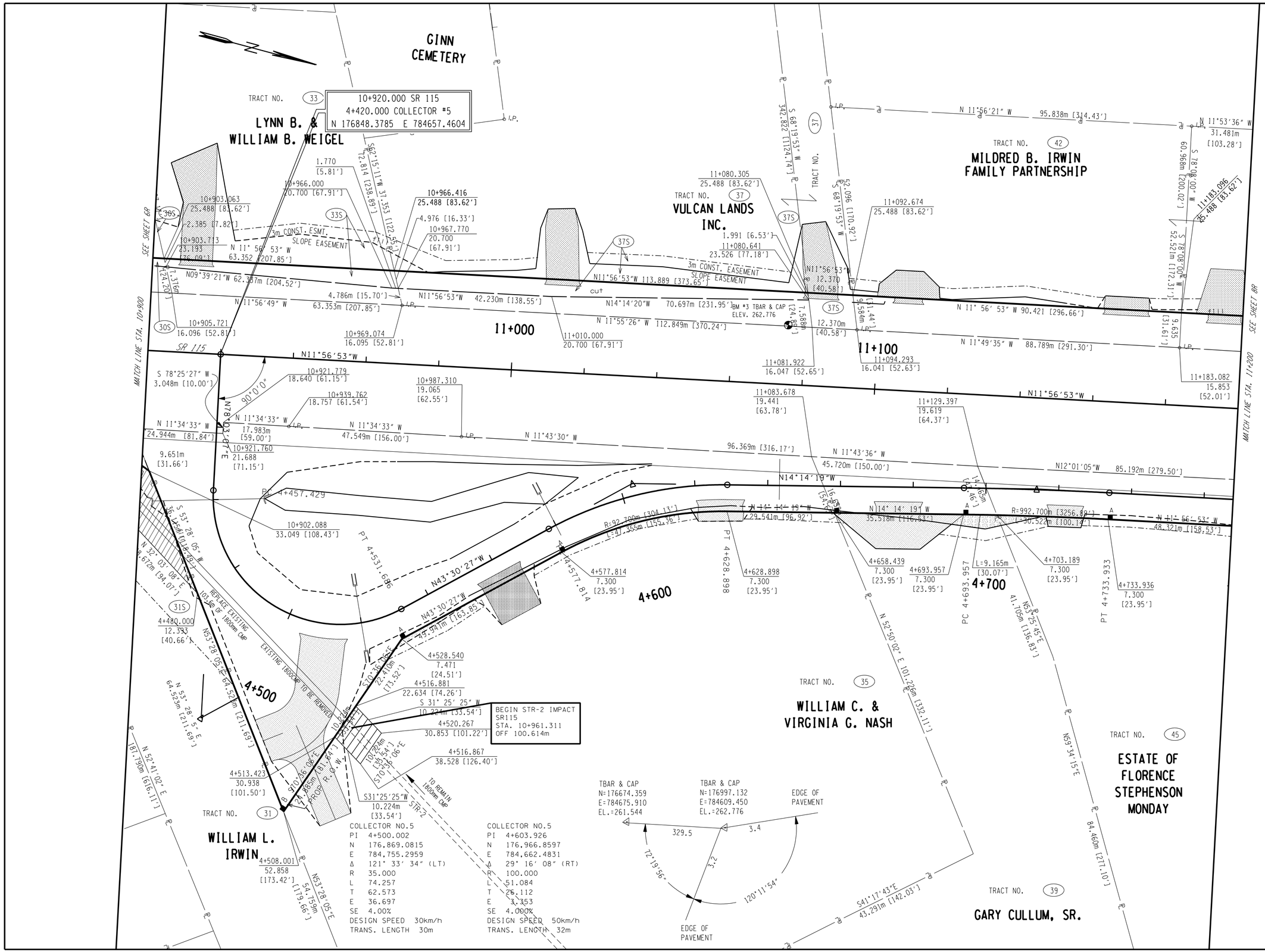
STA. 10+900 - STA. 11+200
STA. 4+420 - STA. 4+768

SCALE: 1:500

TENNESSEE METRIC D.O.T.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	7R
CONST.	2016	47026-3279-14	7R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMEMT. ADDED TRACTS 30S, 31S, 33S, AND 37S . REVISED R.O.W. AND EASEMENTS TRACT NO.42. ADDED LAND HOOK TRACTS 37 AND 42.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

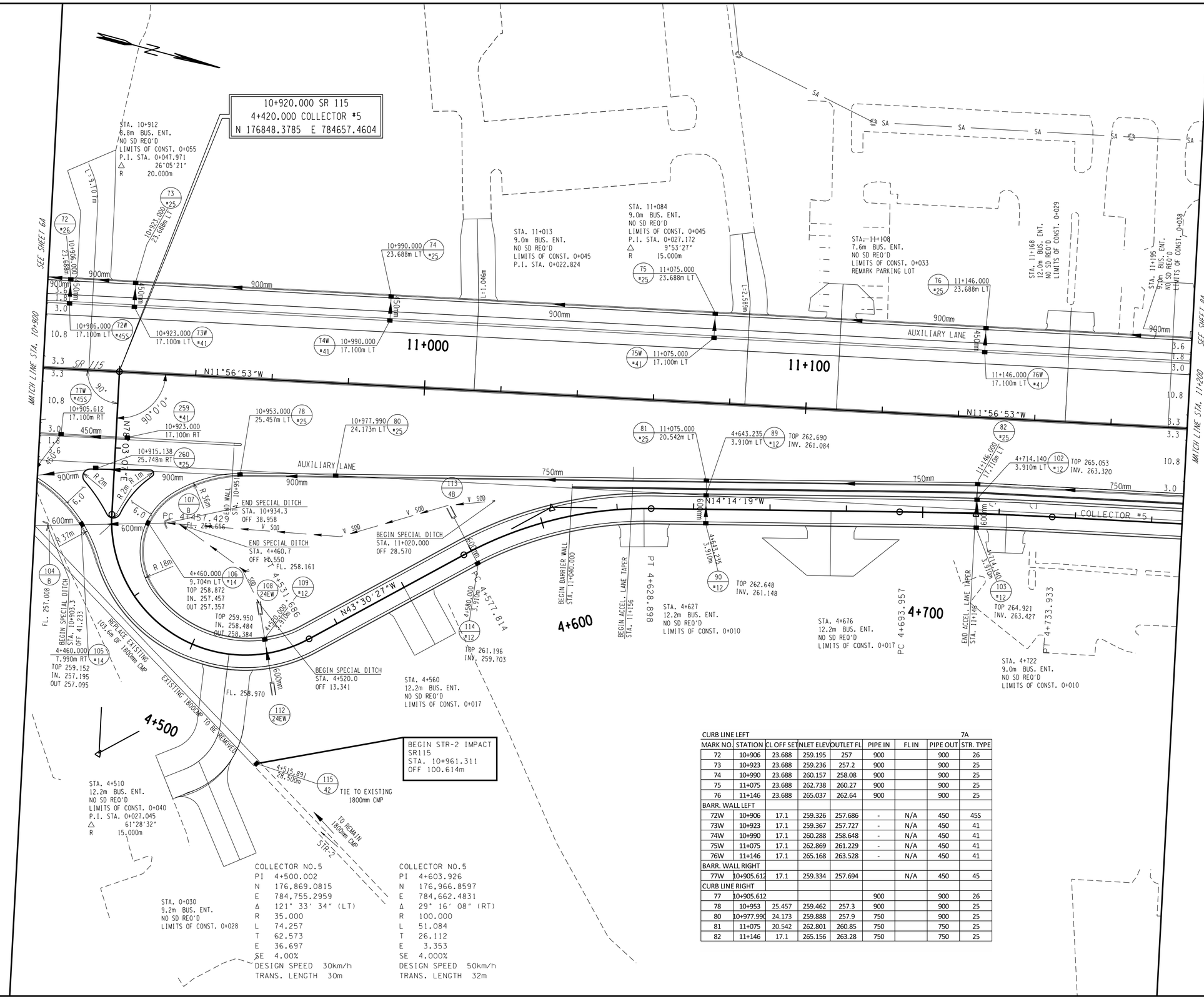
RIGHT-OF-WAY DETAILS

STA. 10+900 - STA. 11+200
STA. 4+420 - STA. 4+768

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	7A
CONST.	2016	47026-3279-14	7A

REV. 04-13-2001: REMOVED BRIDGE @ STA.11+090.542 SR115 AND VULCAN ROAD. ADDED DRIVEWAYS
REV. 28-FEB-2003: ADDED ALIGNMENT & DRIVEWAYS FOR COLLECTOR NO.5. REVISED DRAINAGE TO ACCOMMODATE COLLECTOR NO.5. CLEANED UP DRAFTING MOVED CATCHBASIN #77 TO SHEET 6A.
REV. 15-MAR-2004: REVISED DRIVEWAY FROM STA. 11+175 TO STA. 11+168. REVISED DRIVEWAY WIDTH STA 4+722 FROM 7.2M TO 9.0m.
REV. 24-SEP-2004: ADD DRIVEWAYS TRACT 35 STA. 0+030LT AND 4+56ORT MOVED DRIVEWAY FROM STA 10+913 LT TO STA 10+912 LT. AND WIDENED
REV. 31-MAR-2006: ADDED 9M BUSINESS ENTRANCE LEFT OF 11+195 LT TRACT 42.
REV. 22-AUG.-2014: ADDED ADDITIONAL LANES EACH SIDE OF ROADWAY SECTION AND REVISED SIDE ROADS, DRIVEWAYS AND CULVERT SECTIONS.



CURB LINE LEFT 7A

MARK NO.	STATION	CL OFF SET	INLET ELEV	OUTLET FL	PIPE IN	FL IN	PIPE OUT	STR. TYPE
72	10+906	23.688	259.195	257	900		900	26
73	10+923	23.688	259.236	257.2	900		900	25
74	10+990	23.688	260.157	258.08	900		900	25
75	11+075	23.688	262.738	260.27	900		900	25
76	11+146	23.688	265.037	262.64	900		900	25
BARR. WALL LEFT								
72W	10+906	17.1	259.326	257.686	-	N/A	450	45S
73W	10+923	17.1	259.367	257.727	-	N/A	450	41
74W	10+990	17.1	260.288	258.648	-	N/A	450	41
75W	11+075	17.1	262.869	261.229	-	N/A	450	41
76W	11+146	17.1	265.168	263.528	-	N/A	450	41
BARR. WALL RIGHT								
77W	10+905.612	17.1	259.334	257.694		N/A	450	45
CURB LINE RIGHT								
77	10+905.612				900		900	26
78	10+953	25.457	259.462	257.3	900		900	25
80	10+977.990	24.173	259.888	257.9	750		900	25
81	11+075	20.542	262.801	260.85	750		750	25
82	11+146	17.1	265.156	263.28	750		750	25

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

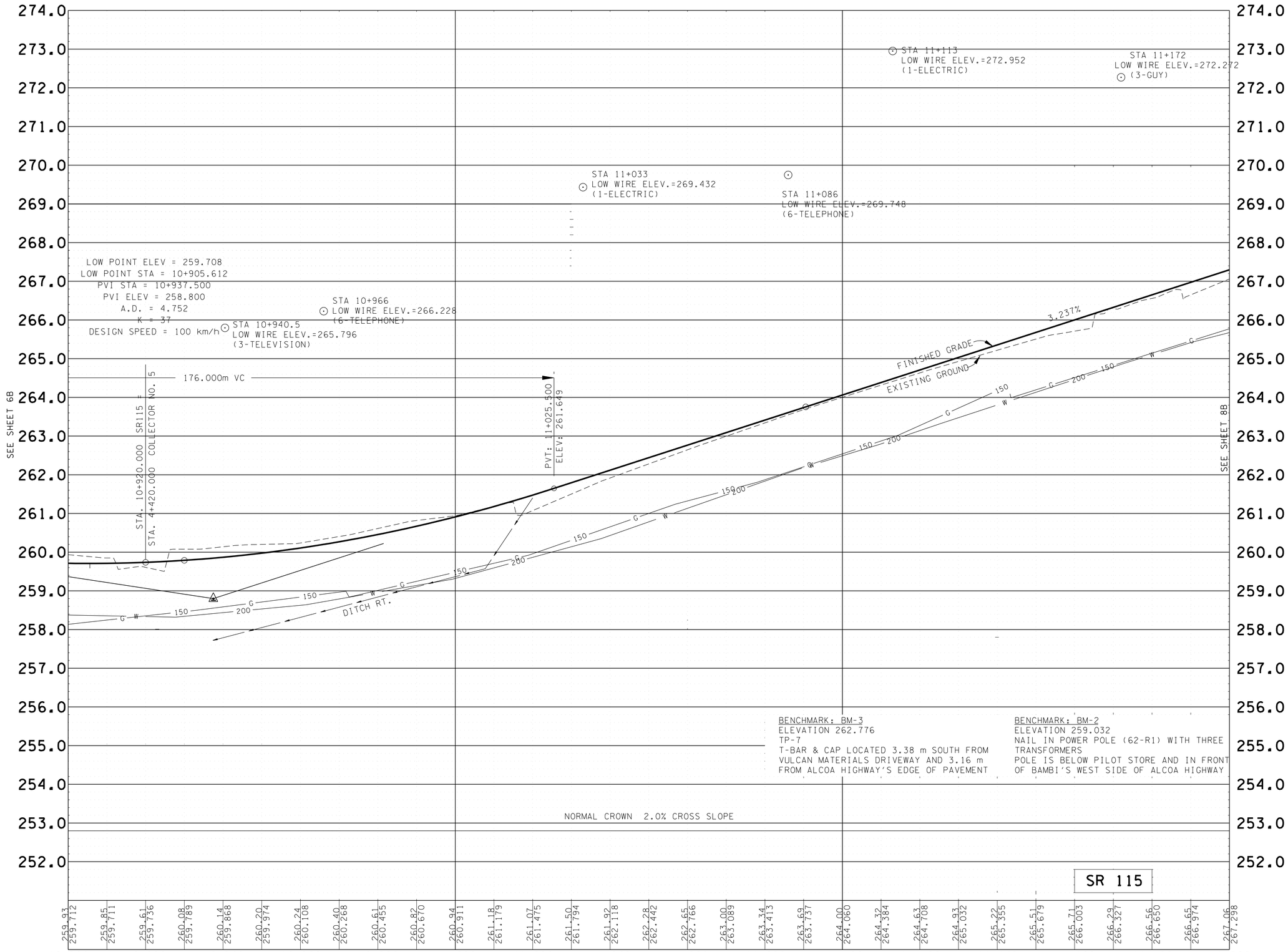
PROPOSED LAYOUT

STA. 10+900 - STA. 11+200
STA. 4+420 - STA. 4+768

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	7B
CONST.	2016	47206-3279-14	7B

REV. 04-13-2001 REMOVED BRIDGE @ STA.11+090.542 AND VULCAN ROAD INTERSECTIONS
REV. 28-FEB-2003: REVISED DRAINAGE TO ACCOMMODATE COLLECTOR NO.5. MOVED BM-4 TO SHEET 8B. MOVED CATCHBASIN # 77 TO SHEET 6B. ADDED RETAINING WALL RT.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

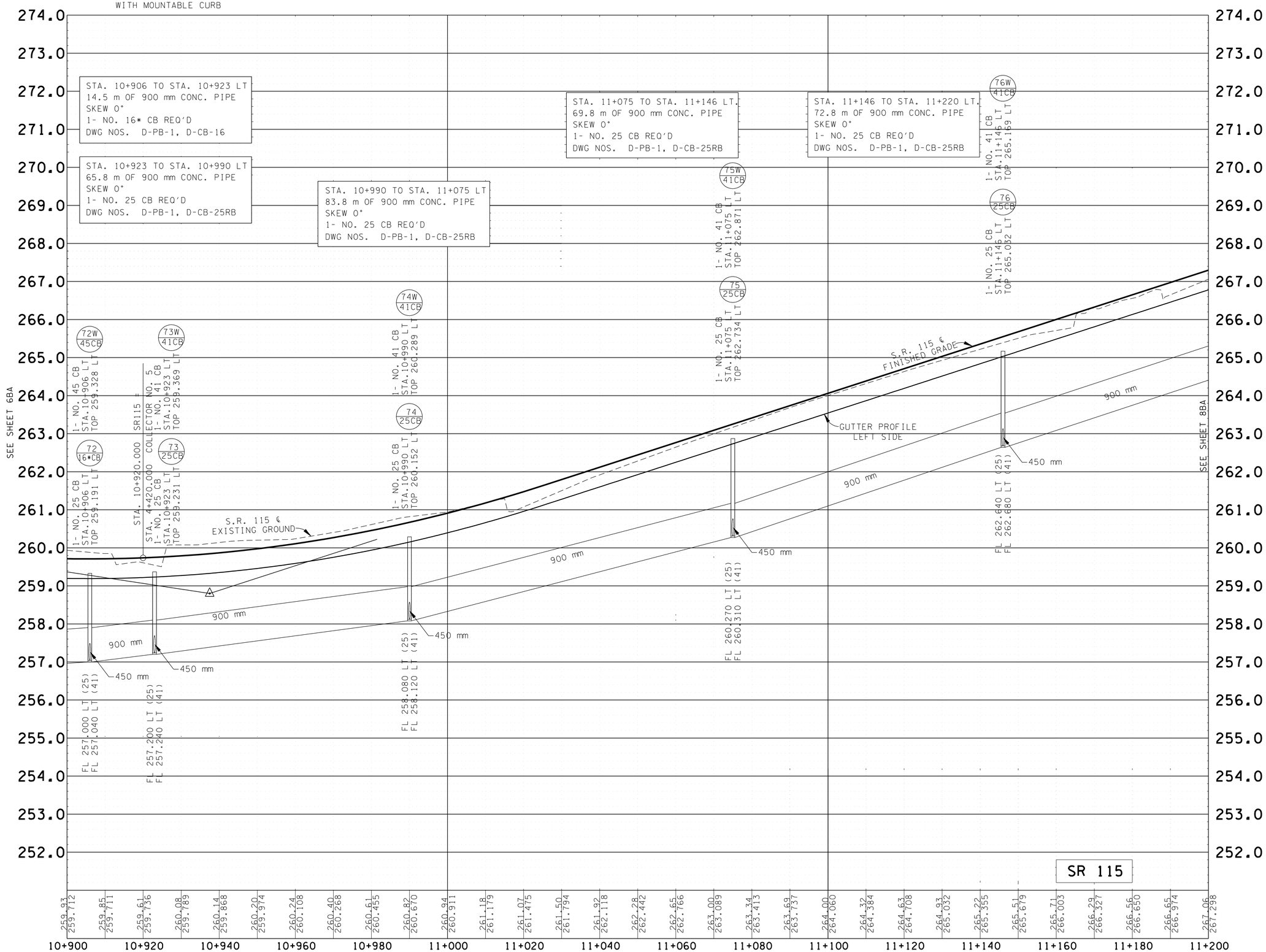
PROPOSED PROFILE
STATE ROUTE 115 C.L.

STA. 10+900
STA. 11+200

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	7BA

NOTE:
16* NO. 16 CATCH BASIN
WITH MOUNTABLE CURB



METRIC

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

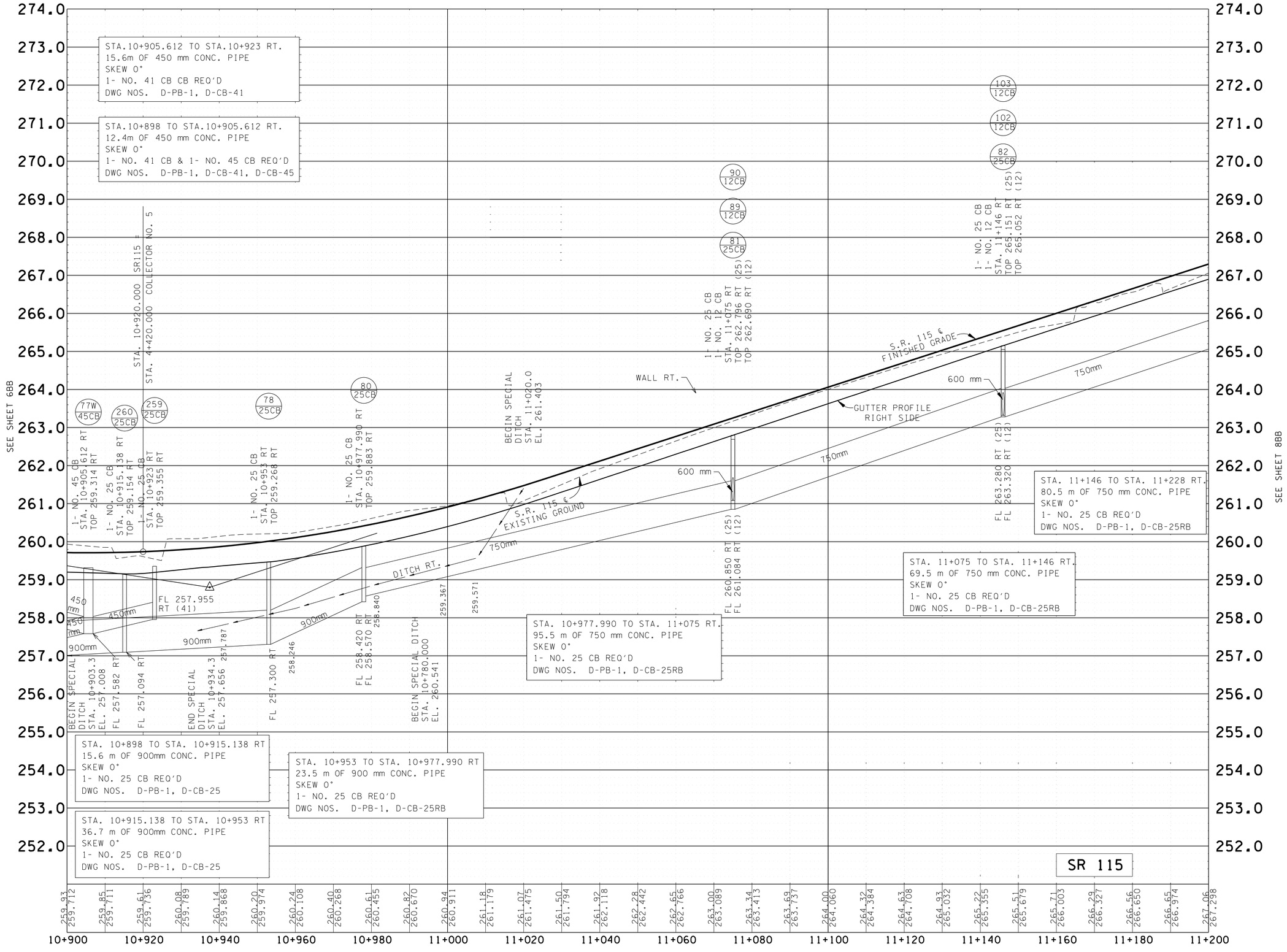
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 LEFT

STA. 10+900
STA. 11+200

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	7BB



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

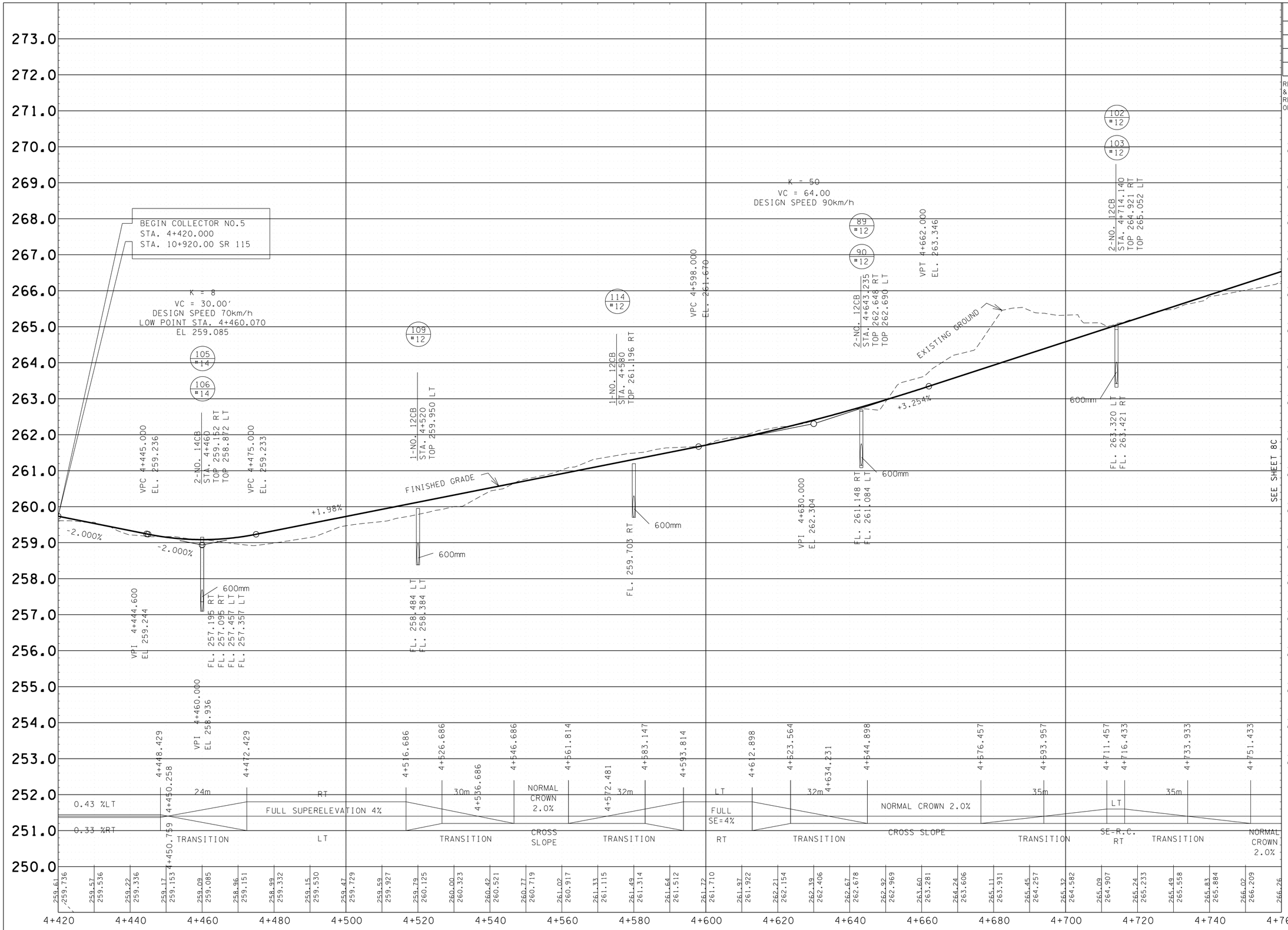
PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 RIGHT

STA. 10+900
STA. 11+200

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	7C
CONST.	2016	47026-3279-14	7C

REV. 28-FEB-2003: ADDED NEW PROFILE & DRAINAGE.
REV. 22-AUG.-2014: REVISED PROFILE OF COLLECTOR NO. 5



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

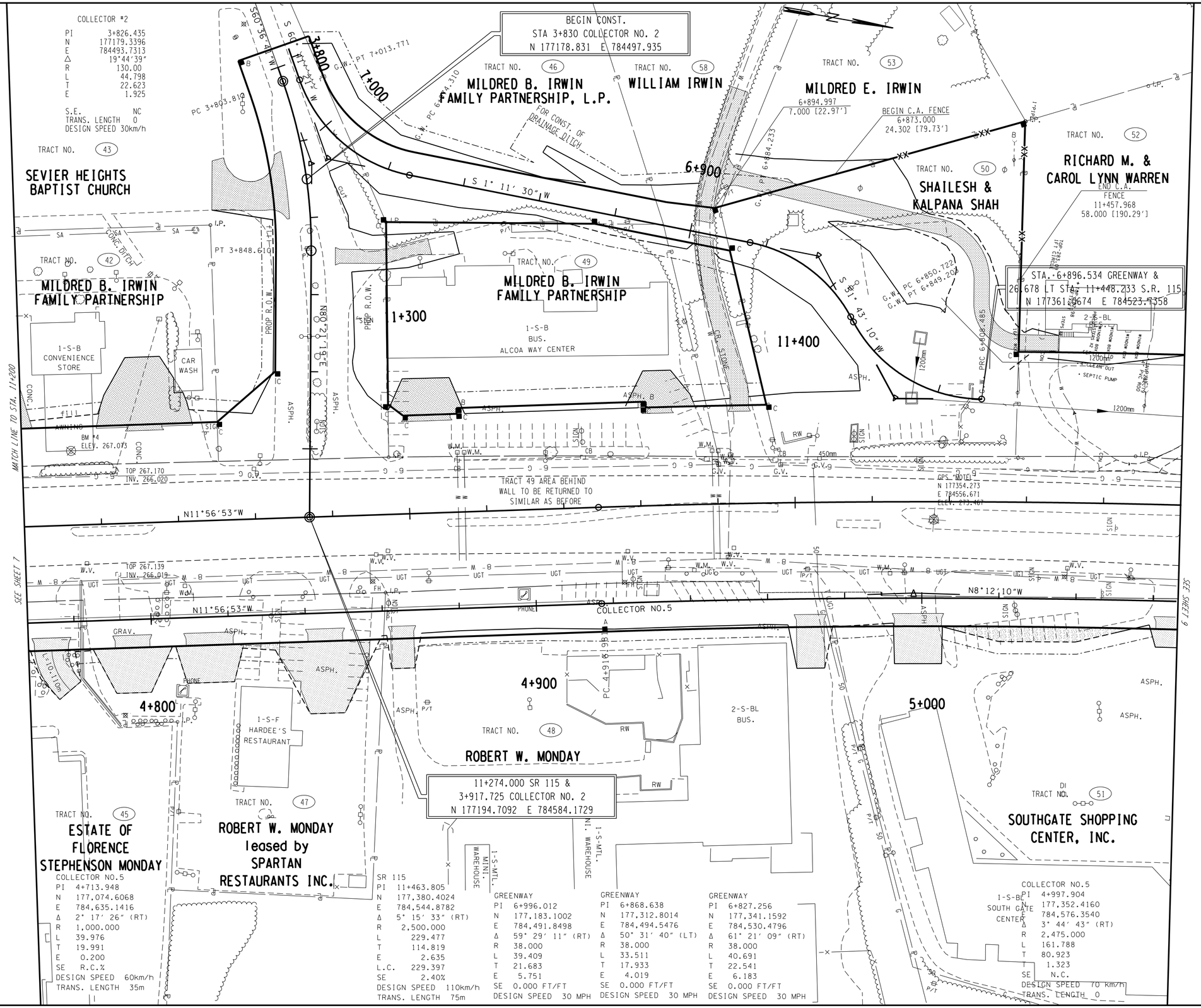
PROPOSED PROFILE
COLLECTOR #5

STA. 4+420.000
STA. 4+760.000

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	8
CONST.	2016	47026-3279-14	8

REV. 04-13-2001 REVISED ALIGNMENT OF COLLECTOR #2. ADDED SIGN TRACT #48 RIGHT OF STA 11+360
REV. 28-FEB-2003: ADDED ALIGNMENT & R.O.W. FOR COLLECTOR NO.5, GREENWAY, & RAMP B. MOVED DRIVEWAYS ON SR115 RT TO COLLECTOR NO.5. BEGIN SHIFTING SR115 TO THE WEST.
REV. 15-MAR-2004: REVISED R.O.W, SLOPE EASEMENT AND CONSTRUCTION EASEMENTS FOR TRACTS 43,44,46,49 AND 53. REVISED CONST. EASEMENT TRACT 42 FOR STRUCTURE REMOVAL (CONOCO PIOLET STRUCTURES ONLY). REMOVED LOSS OF ACCESS FROM TRACTS 50 & 52 AND MADE TOTAL TAKES.
REV. 24-SEP-2004: LABELED EASEMENT ON TRACT 46 AS FOR CONST. OF DRAINAGE DITCH.
REV. 31-MAR-2006: REMOVED CONSTRUCTION EASEMENT FOR REMOVAL OF STRUCTURES, AND ADDED 9M BUSINESS ENTRANCE LEFT OF 11+195 LT TRACT 42.
REV. 22-AUG.-2014: REVISED ROW AND EASEMENT LIMITS.
REV. 7-NOV.-2014: REVISED R.O.W. AND EASEMENTS TRACT NOS. 42, 43, 44, 46, AND 49.
REV. 27-MAY-2015: DELETED TRACT 44. ADJUSTED PROPERTY LINES AND REVISED PROPOSED RIGHT-OF-WAY TRACTS 46, 49 AND 58.
REV. 17-SEP-2015: UPDATED TOPO, REVISED PROP R.O.W. AND ADDED DRIVEWAY TRACT 52.



COLLECTOR NO.5
PI 4+713.948
N 177,074.6068
E 784,635.1416
Δ 2° 17′ 26″ (RT)
R 1,000.000
L 39.976
T 19.991
E 0.200
SE R.C.%
DESIGN SPEED 60km/h
TRANS. LENGTH 35m

SR 115
PI 11+463.805
N 177,380.4024
E 784,544.8782
Δ 5° 15′ 33″ (RT)
R 2,500.000
L 229.477
T 114.819
E 2.635
L.C. 229.397
SE 2.40%
DESIGN SPEED 110km/h
TRANS. LENGTH 75m

GREENWAY
PI 6+996.012
N 177,183.1002
E 784,491.8498
Δ 59° 29′ 11″ (RT)
R 38.000
L 39.409
T 21.683
E 5.751
SE 0.000 FT/FT
DESIGN SPEED 30 MPH

GREENWAY
PI 6+868.638
N 177,312.8014
E 784,494.5476
Δ 50° 31′ 40″ (LT)
R 38.000
L 33.511
T 17.933
E 4.019
SE 0.000 FT/FT
DESIGN SPEED 30 MPH

GREENWAY
PI 6+827.256
N 177,341.1592
E 784,530.4796
Δ 61° 21′ 09″ (RT)
R 38.000
L 40.691
T 22.541
E 6.183
SE 0.000 FT/FT
DESIGN SPEED 30 MPH

COLLECTOR NO.5
PI 4+997.904
N 177,352.4160
E 784,576.3540
Δ 3° 44′ 43″ (RT)
R 2,475.000
L 161.788
T 80.923
I 1.323
SE N.C.
DESIGN SPEED 70 km/h
TRANS. LENGTH 0

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

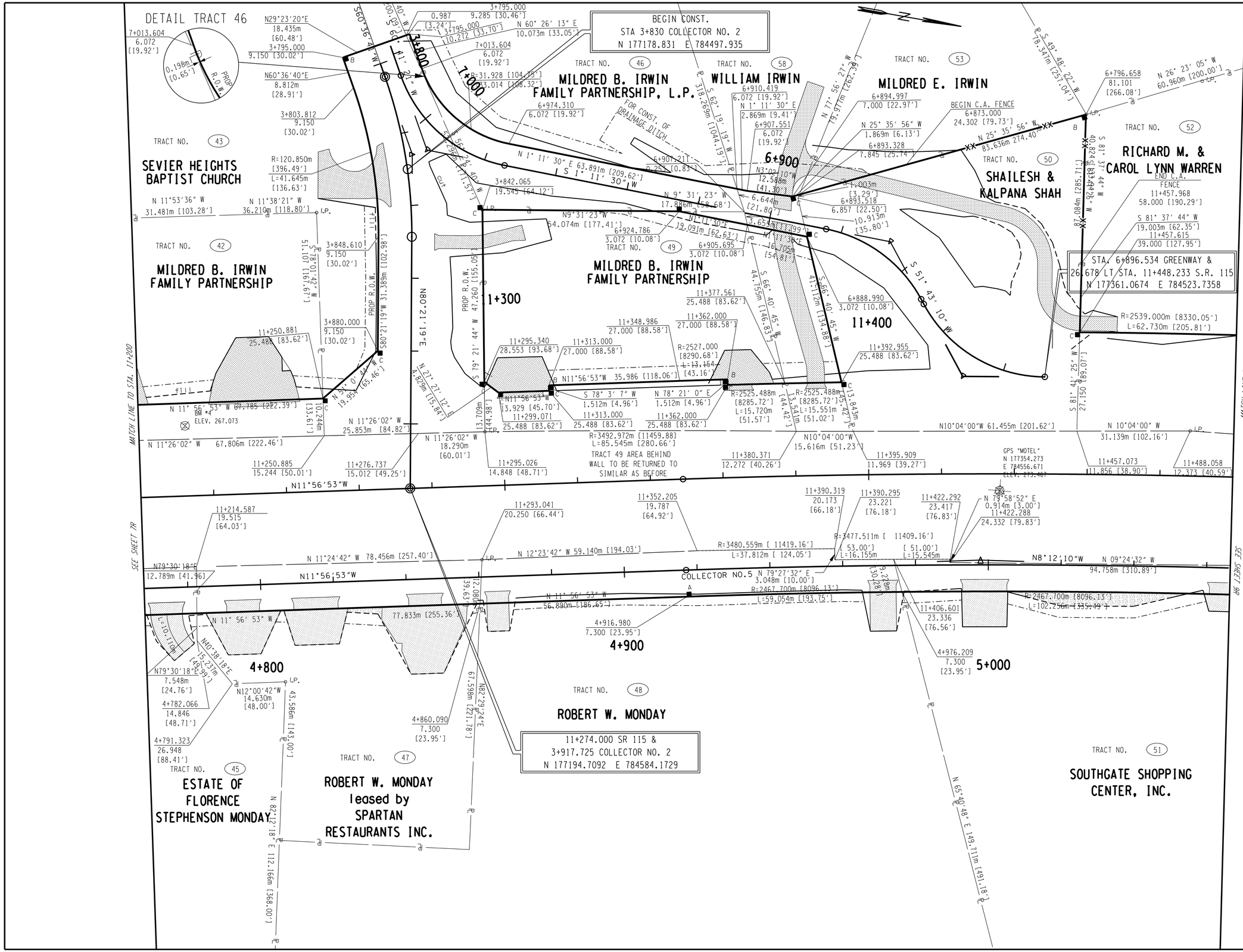
PRESENT LAYOUT

STA. 11+200 - STA. 11+500
STA. 4+768 - STA. 5+067

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	8R
CONST.	2016	47026-3279-14	8R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 7-NOV.-2014: REVISED R.O.W. AND EASEMENTS TRACT NOS. 42, 43, 44, 46, AND 49.
REV. 16-JAN.-2015: TRACT 49 ADDED BEARING AND DISTANCE BETWEEN STA.11+313.000 AND 11+348.986
REV. 27-MAY-2015: DELETED TRACT 44. ADJUSTED PROPERTY LINES AND REVISED PROPOSED RIGHT-OF-WAY TRACTS 46, 49 AND 58.
REV. 17-SEP-2015: REVISED PROP R.O.W. AND ADDED DRIVEWAY TRACT 52.



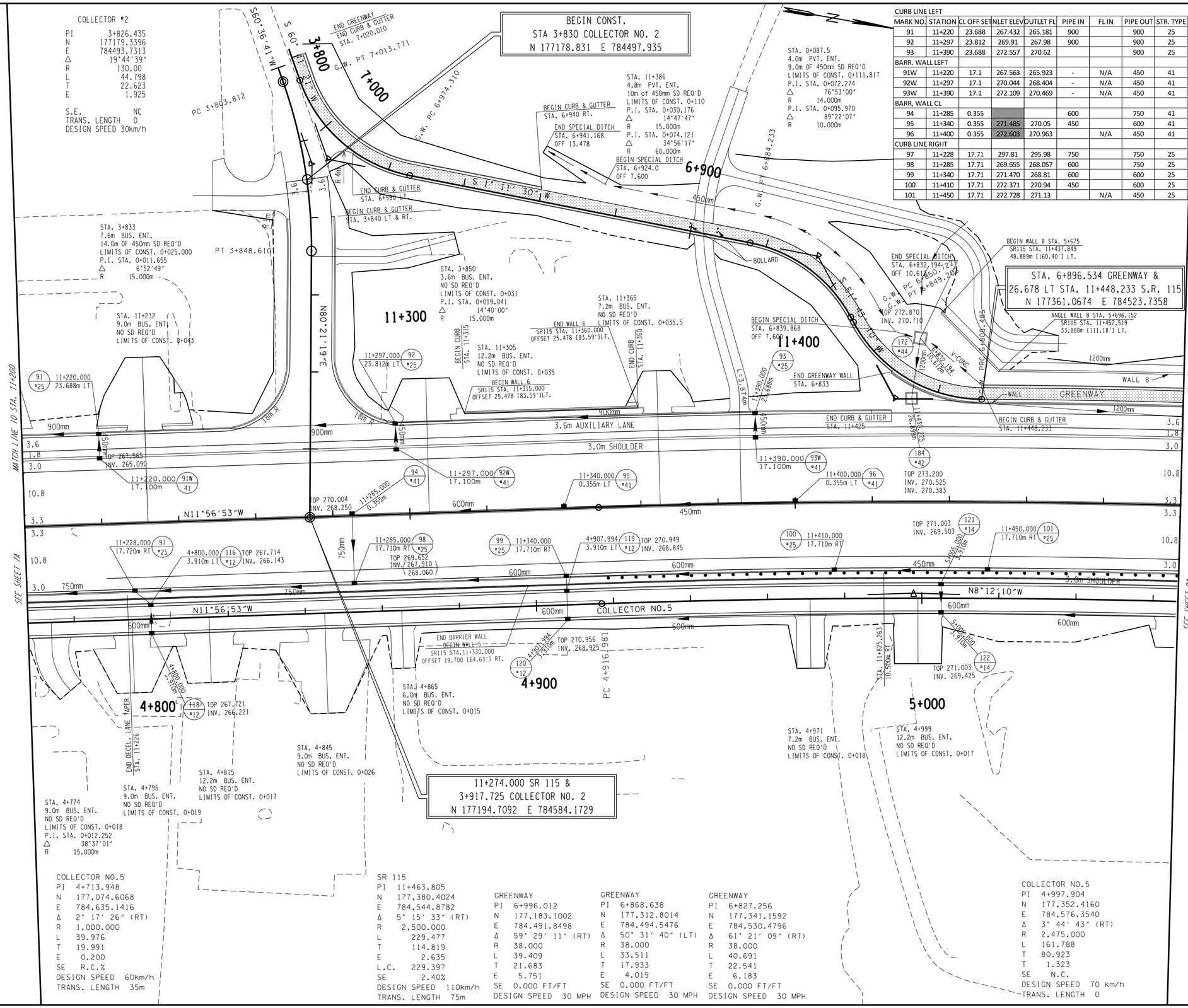
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 11+200 - STA. 11+500
STA. 4+768 - STA. 5+067

SCALE: 1:500



CURB LINE LEFT								
MARK NO.	STATION	CL OFF SET	INLET ELEV	OUTLET FL	PIPE IN	FL IN	PIPE OUT	STR. TYPE
91	11+220	23.688	267.432	265.181	900		900	25
92	11+297	23.812	269.91	267.98	900		900	25
93	11+390	23.688	272.557	270.62			900	25
BARR. WALL LEFT								
91W	11+220	17.1	267.563	265.923	-	N/A	450	41
92W	11+297	17.1	270.044	268.404	-	N/A	450	41
93W	11+390	17.1	272.109	270.469	-	N/A	450	41
BARR, WALL CL								
94	11+285	0.355			600		750	41
95	11+340	0.355	271.485	270.05	450		600	41
96	11+400	0.355	272.603	270.963		N/A	450	41
CURB LINE RIGHT								
97	11+228	17.71	297.81	295.98	750		750	25
98	11+285	17.71	269.655	268.057	600		750	25
99	11+340	17.71	271.470	268.81	600		600	25
100	11+410	17.71	272.371	270.94	450		600	25
101	11+450	17.71	272.728	271.13		N/A	450	25

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	8A
CONST.	2016	47026-3279-14	8A

REV. 28-FEB-2003: ADDED ALIGNMENT FOR COLLECTOR NO.5, GREENWAY, & RAMP B. ADJUSTED DRAINAGE TO ACCOMMODATE. MOVED DRIVEWAYS ON SR115 RT TO COLLECTOR NO.5. BEGIN SHIFTING SR115 TO THE WEST.
REV. 15-MAR-2004: REVISED DRIVEWAY WIDTH STA. 4+774 FROM 7.2M TO 9.0m.
REV. 31-MAR-2006: ADDED 9M BUSINESS ENTRANCE LEFT OF 11+195 LT TRACT 42.
REV. 22-AUG.-2014: ADDED ADDITIONAL LANES TO ROADWAY SECTION AND REVISED COLLECTOR 2 INTERSECTION,AND GREENWAY ALIGNMENT. REVISED WALLS, CATCH BASIN, CULVERTS AND ETC.
REV. 17-SEP-2015 ADDED DRIVEWAY STA. 0+053. ADDED WALL STA. 11+459.274.

COLLECTOR NO.5
PI 4+713.948
N 177,074.6068
E 784,635.1416
Δ 2° 17' 26" (RT)
R 1,000.000
L 39.976
T 19.991
E 0.200
SE R.C.%
DESIGN SPEED 60km/h
TRANS. LENGTH 35m

SR 115
PI 11+463.805
N 177,380.4024
E 784,544.8782
Δ 5° 15' 33" (RT)
R 2,500.000
L 229.477
T 114.819
E 2.635
L.C. 229.397
SE 2.40%
DESIGN SPEED 110km/h
TRANS. LENGTH 75m

GREENWAY
PI 6+996.012
N 177,183.1002
E 784,491.8498
Δ 59° 29' 11" (RT)
R 38.000
L 39.409
T 21.683
E 5.751
SE 0.000 FT/FT
DESIGN SPEED 30 MPH

GREENWAY
PI 6+868.638
N 177,312.8014
E 784,494.5476
Δ 50° 31' 40" (LT)
R 38.000
L 33.511
T 17.933
E 4.019
SE 0.000 FT/FT
DESIGN SPEED 30 MPH

GREENWAY
PI 6+827.256
N 177,341.1592
E 784,530.4796
Δ 61° 21' 09" (RT)
R 38.000
L 40.691
T 22.541
E 6.183
SE 0.000 FT/FT
DESIGN SPEED 30 MPH

COLLECTOR NO.5
PI 4+997.904
N 177,352.4160
E 784,576.3540
Δ 3° 44' 43" (RT)
R 2,475.000
L 161.788
T 80.923
T 1.323
SE N.C.
DESIGN SPEED 70 km/h
TRANS. LENGTH 0

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

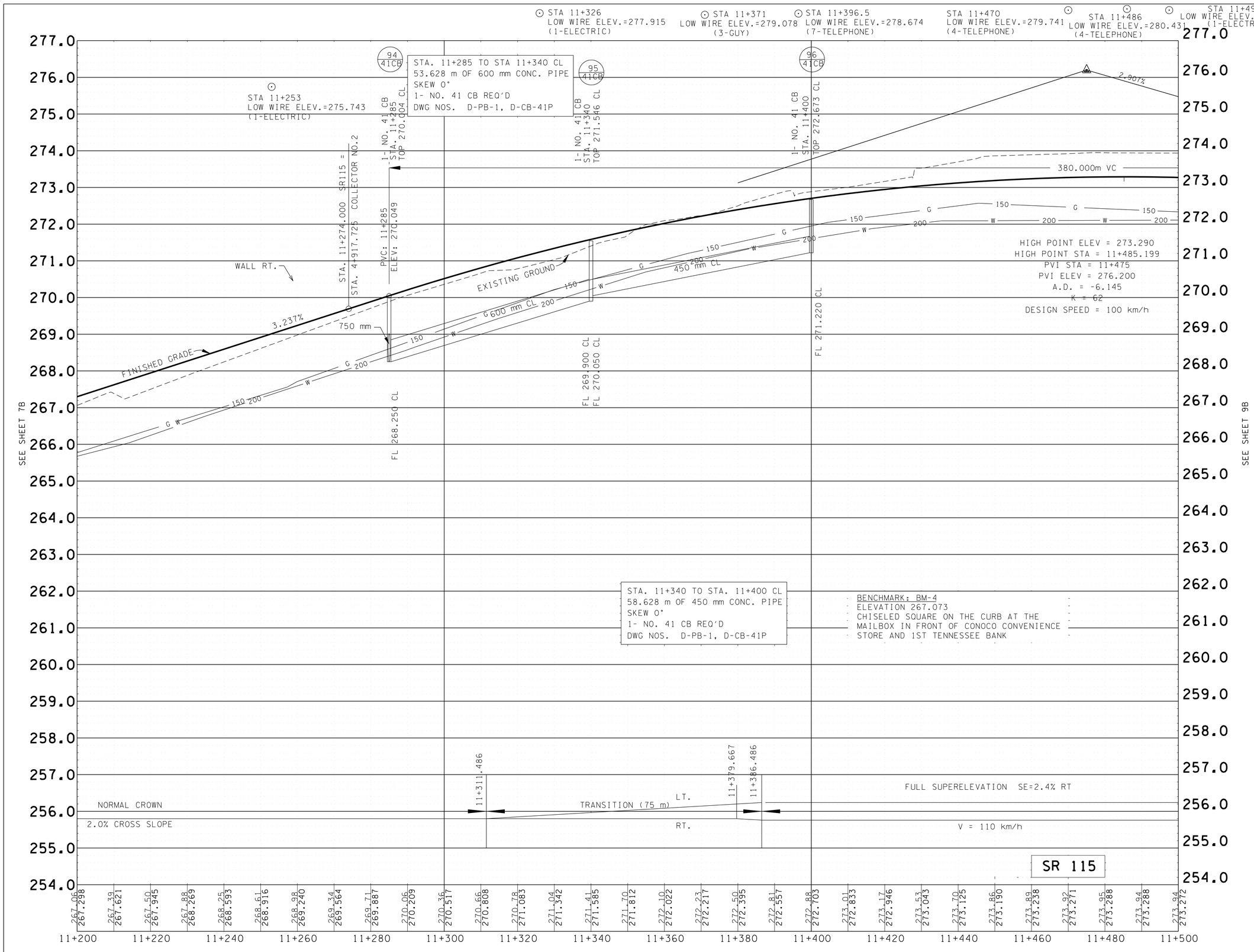
PROPOSED LAYOUT

STA. 11+200 - STA. 11+500
STA. 3+800 - STA. 4+917.725

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	8B
CONST.	2016	47206-3279-14	8B

REV. 28-FEB-2003: ADDED BM-4 FROM SHEET 7B. REVISED PROFILE TO REFLECT NEW LOCATION. ADDED RETAINING WALL RT.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

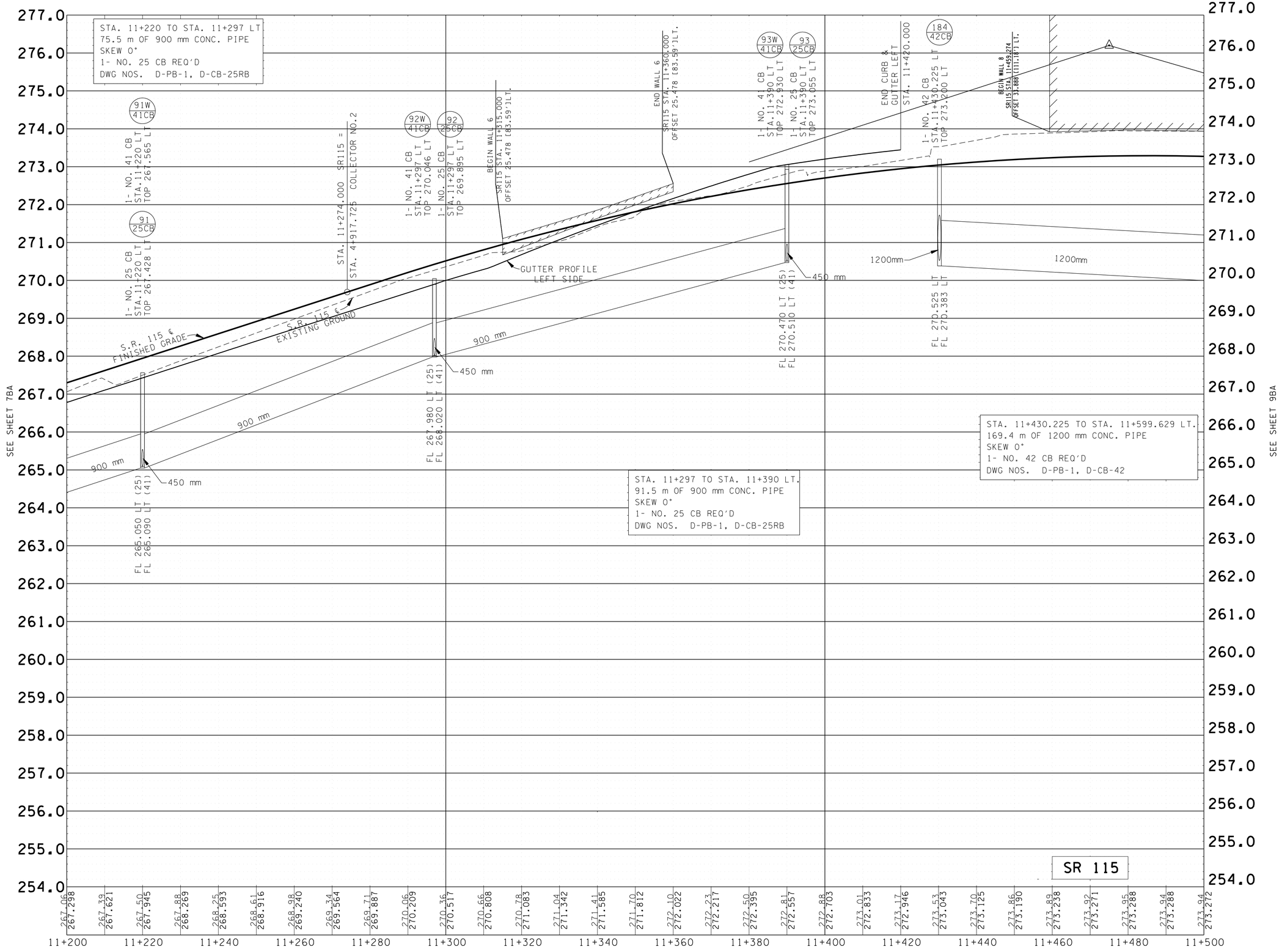
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
STATE ROUTE 115 C.L.

STA. 11+200
STA. 11+500

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	8BA



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

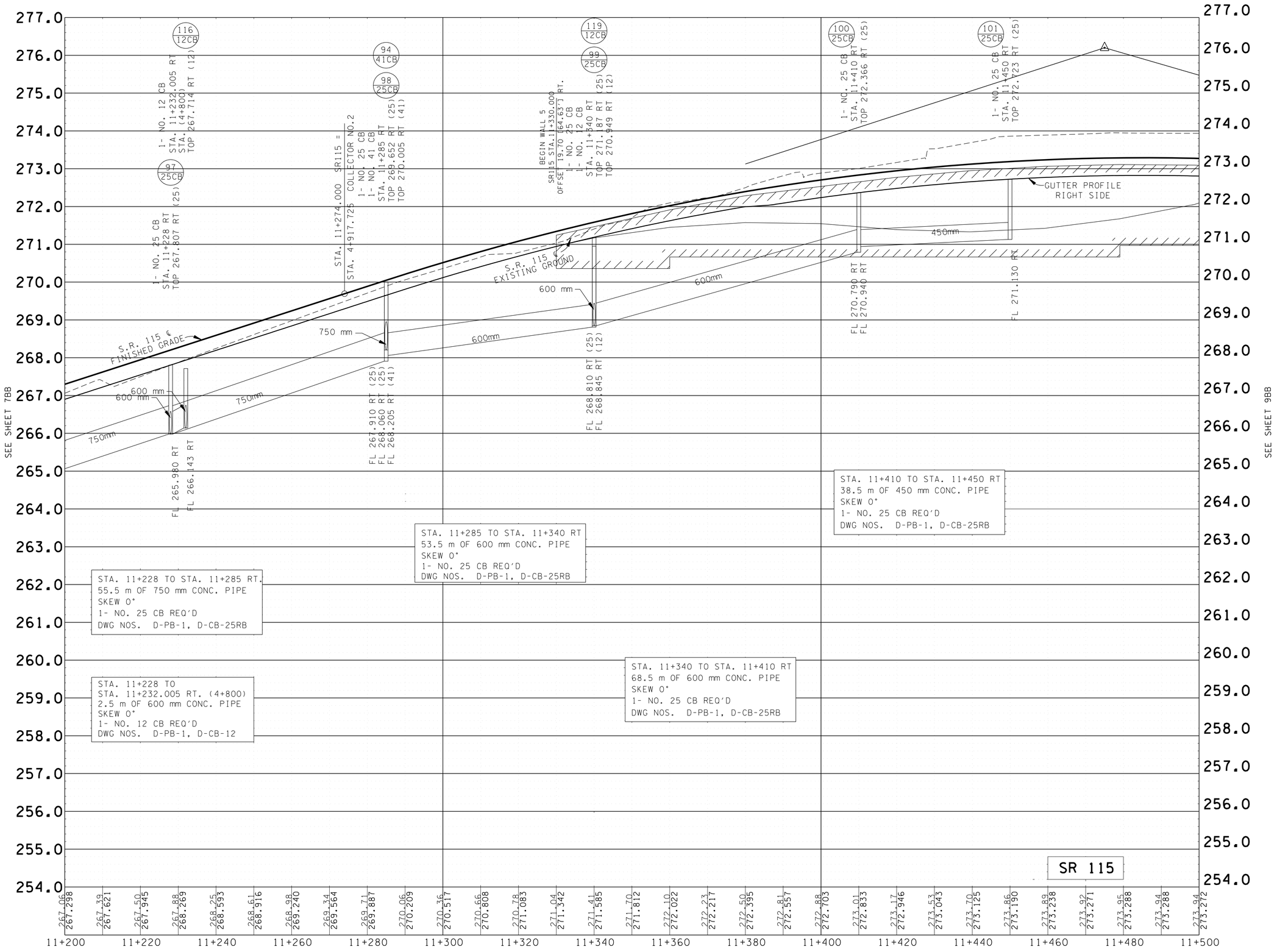
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 LEFT

STA. 11+200
STA. 11+500

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	8BB



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

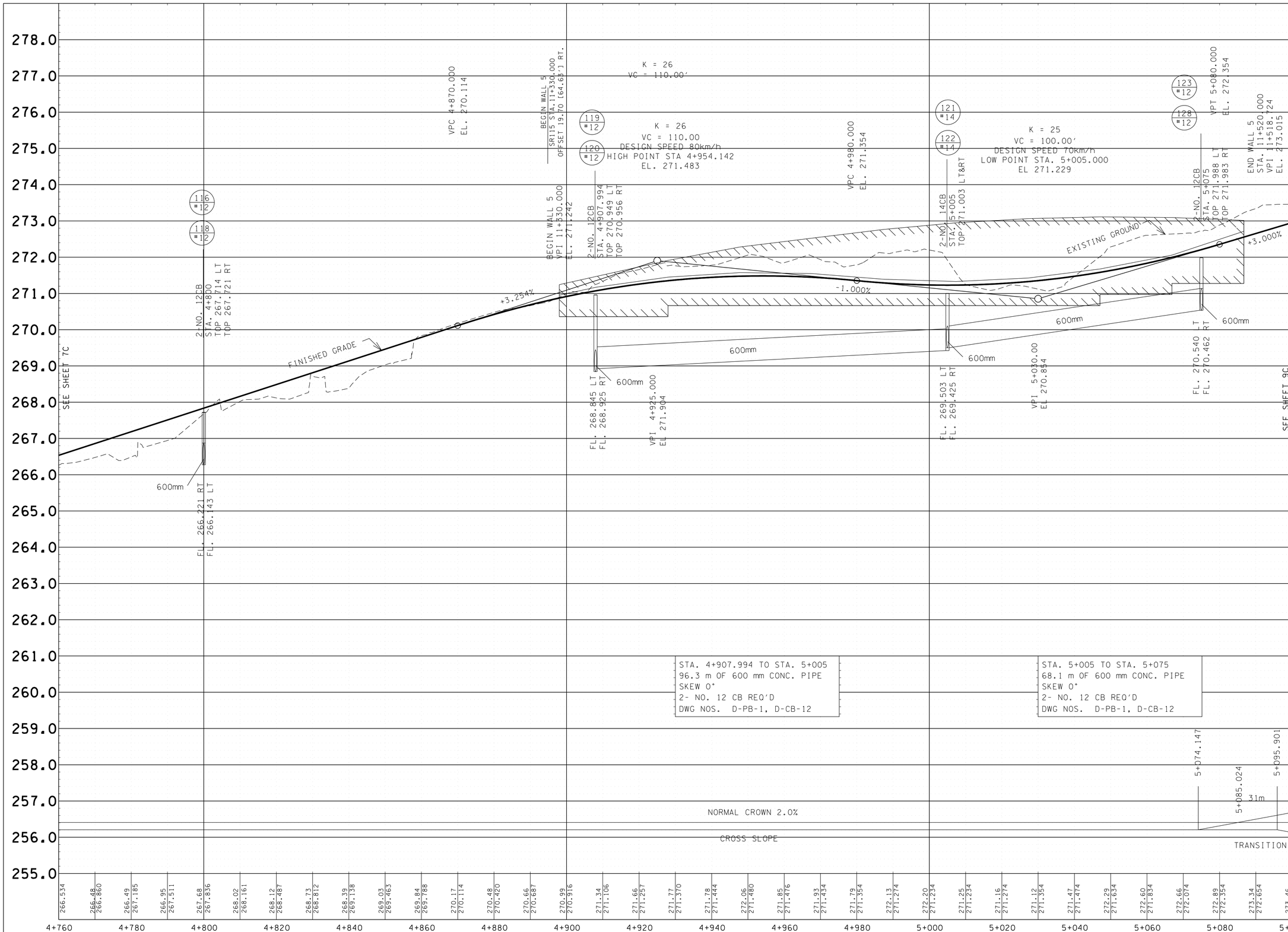
PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 RIGHT

STA. 11+200
STA. 11+500

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	8C
CONST.	2016	47026-3279-14	8C

REV. 28-FEB-2003: ADDED NEW PROFILE & DRAINAGE.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

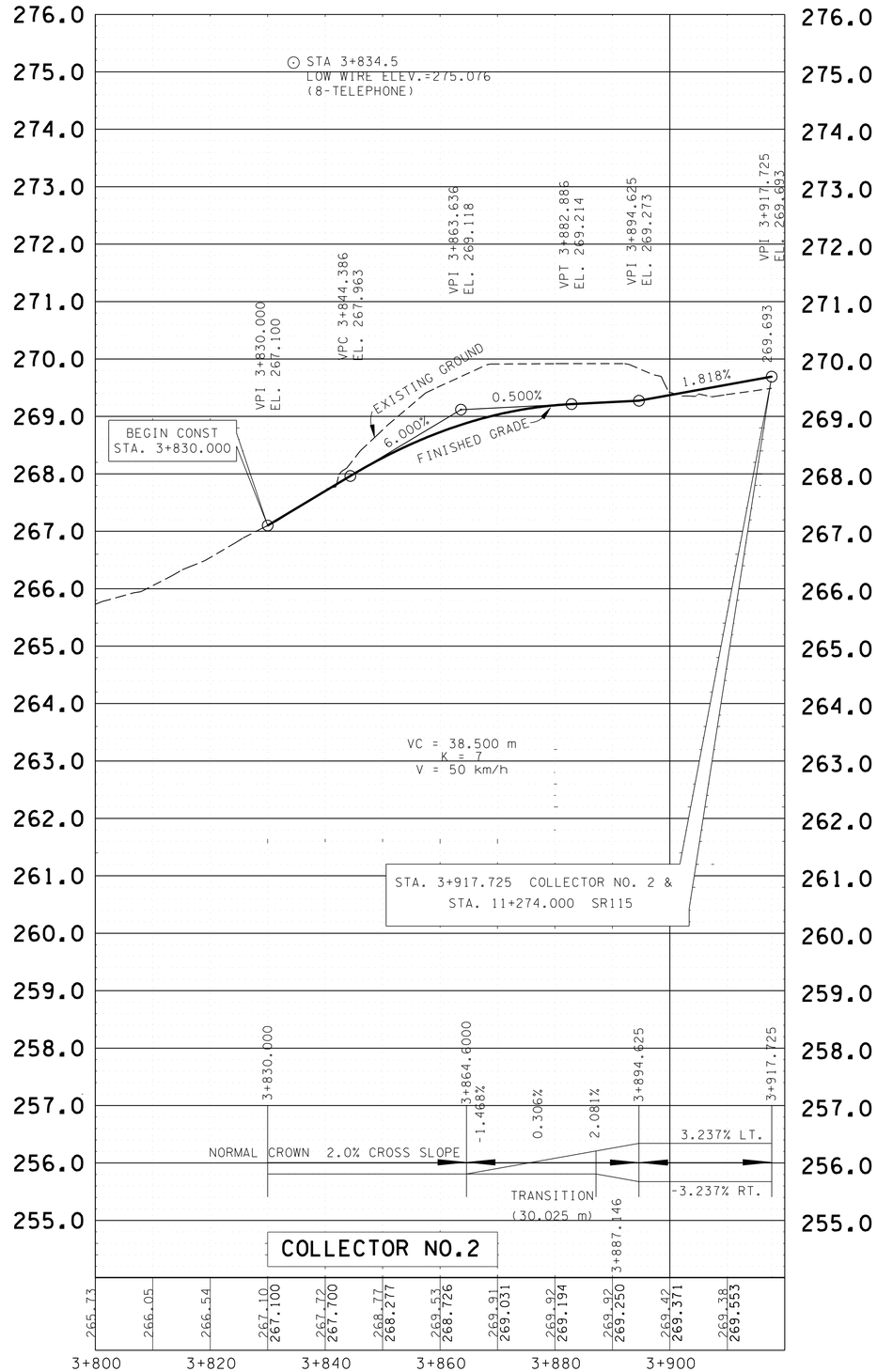
PROPOSED PROFILE
COLLECTOR #5

STA. 4+760.000
STA. 5+100.000

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	8D
CONST.	2016	47026-3279-14	8D

REV. 04-13-2001: REVISED PROFILE GRADE COLLECTOR NO. 2
REV. 28-FEB-2003: REVISED STATIONING & CLEANED UP DRAFTING. RENAMED SHEET 8C TO 8D. REVISED PROFILE GRADE COLLECTOR NO. 2
REV. 22-AUG.-2014: REVISED PROFILE COLLECTOR NO. 2.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

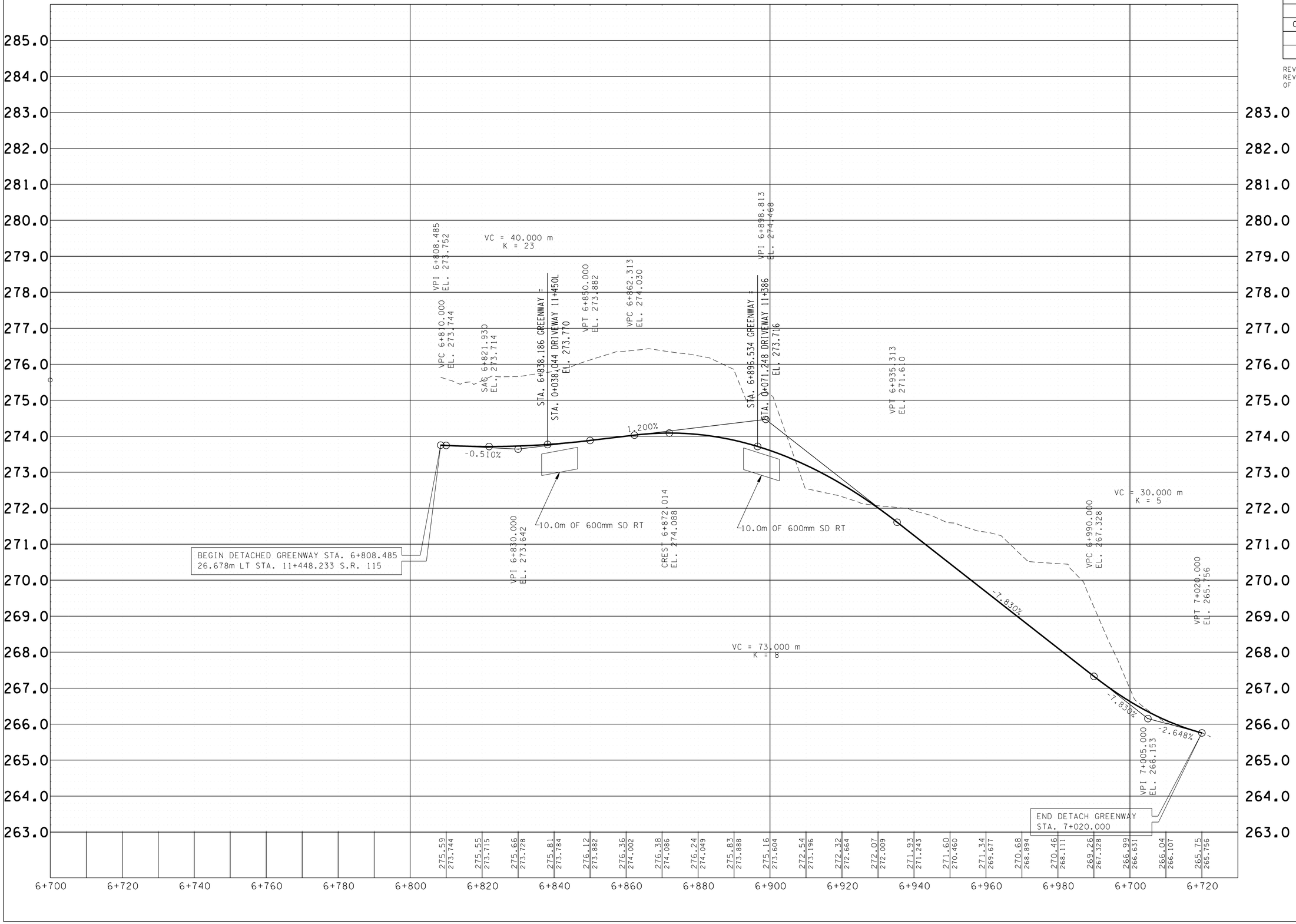
PROPOSED PROFILE
COLLECTOR NO. 2

STA. 3+800
STA. 3+917.725

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	8E
CONST.	2016	47026-3279-14	8E

REV. 28-FEB-2003: ADDED NEW SHEET.
REV. 22-AUG-2014: REVUSED PROFILE OF GREENWAY



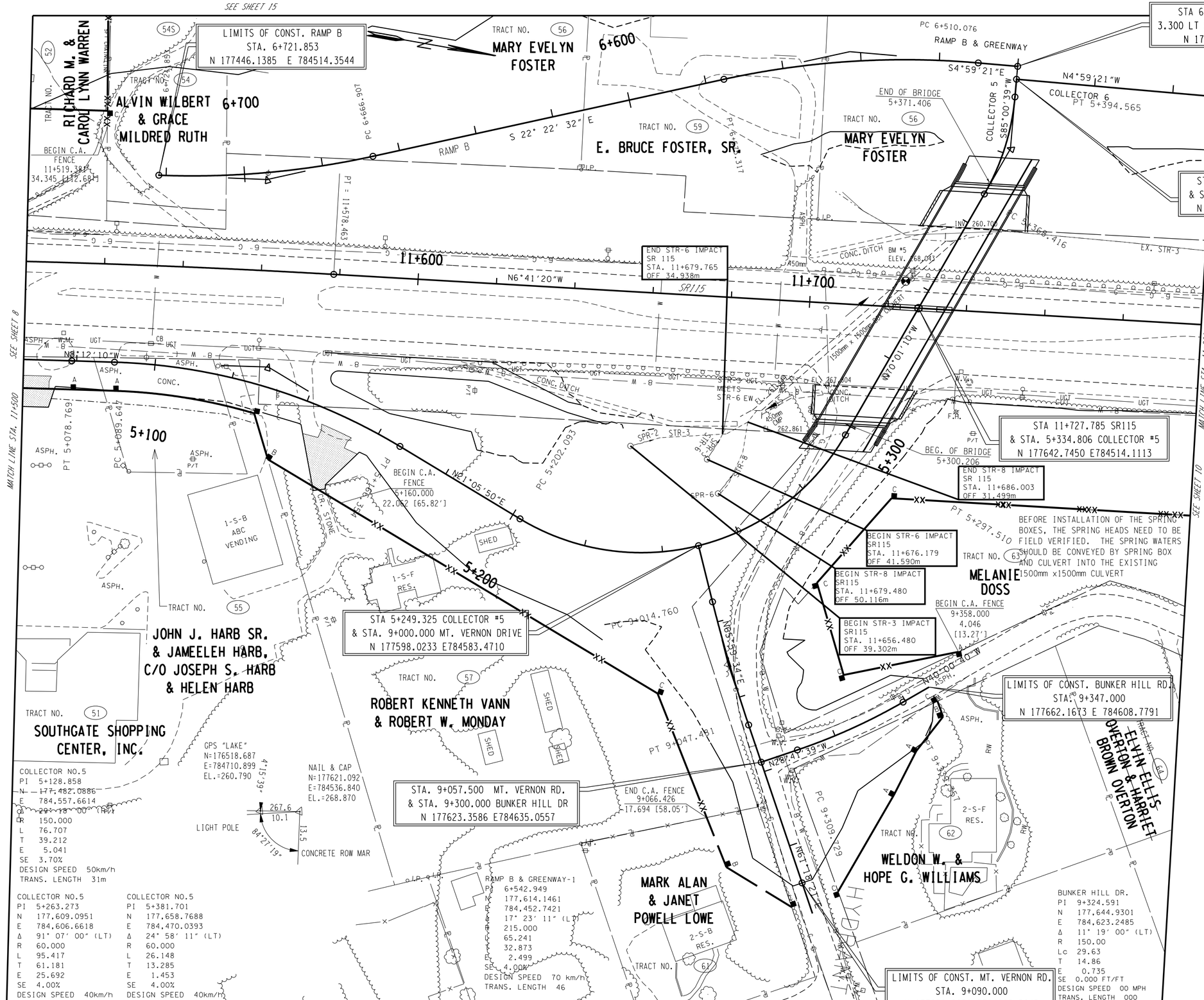
TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
GREENWAY
STA.6+808.485 TO STA.7+020

SCALE HORIZ. 1:500
VERT. 1:50



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	9
CONST.	2016	47026-3279-14	9

REV. 28-FEB-2003: ADDED ALIGNMENT & CURVE DATA FOR COLLECTOR NO.5, NO.6, MT. VERNON RD., RAMP B & GREENWAY. ADJUSTED R.O.W. & DRIVEWAYS ACCORDINGLY. REVISED MATCH LINES. SHIFTED SR115 TO THE WEST. OMITTED PREVIOUS ALIGNMENTS. REVISED DRAINAGE NEAR STA. 11+690. LINED OUT TRACT #64, NOT USED.
REV. 15-MAR-2004: REVISED EXISTING ROW TRACT 54. ADDED TRACT 54S MADE TRACTS 52 & 54S TOTAL TAKES. TRACT 57 MOVED PROP R.O.W. 2M EAST AND ELIMINATED CONST. EASEMENT. ADDED DRIVEWAY TRACT 62.
REV. 28-JUL-2004: REMOVED C.A. FENCE FROM TRACT 61.
REV. 6-AUG-2008: ADJUSTED PROPOSED RIGHT OF WAY TRACT 62, END OF BUNKER HILL ROAD FROM 9+351.00 TO 9+347.00, AND REMOVED DRIVEWAY 9+351.
REV. 22-AUG.-2014: REVISED ROW AND EASEMENT LIMITS.
REV. 19-SEP-2014: REVISED BRIDGE INFORMATION DUE TO GRADE CHANGE OF BRIDGE.
REV. 17-SEP-2015: UPDATED TOPO, AND REVISED PROP R.O.W. TRACT 52.

BEFORE INSTALLATION OF THE SPRING BOXES, THE SPRING HEADS NEED TO BE FIELD VERIFIED. THE SPRING WATERS SHOULD BE CONVEYED BY SPRING BOX AND CULVERT INTO THE EXISTING 1500mm x1500mm CULVERT

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

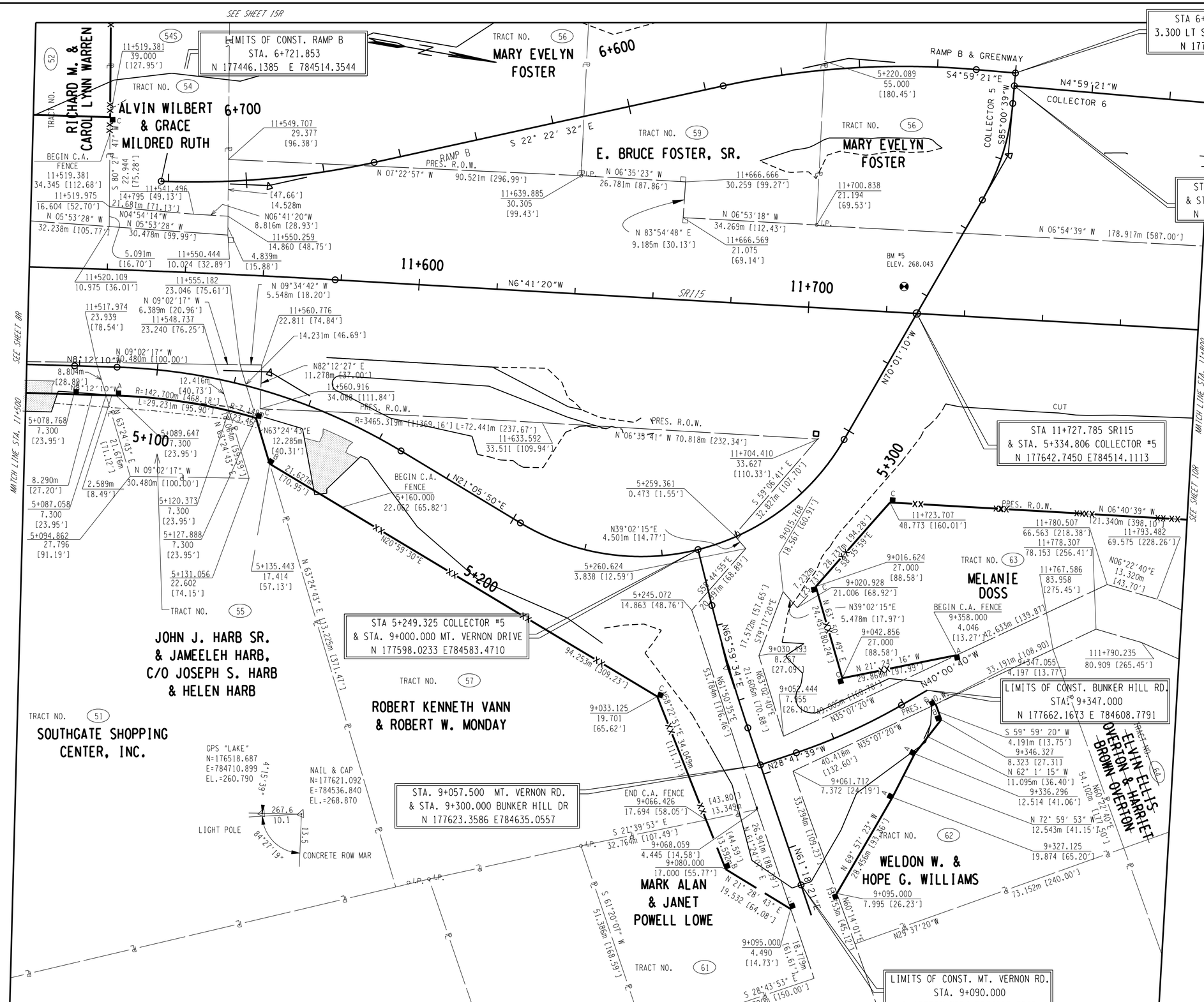
PRESENT LAYOUT

STA. 11+500 - STA. 11+800
STA. 5+067 - STA. 5+399.092
STA. 6+500 - STA. 6+755
STA. 9+000 - STA. 9+090
STA. 9+300 - STA. 9+351
STA. 6+000 - STA. 6+050

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	9R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 17-SEP-2015: REVISED PROP R.O.W. TRACT 52.



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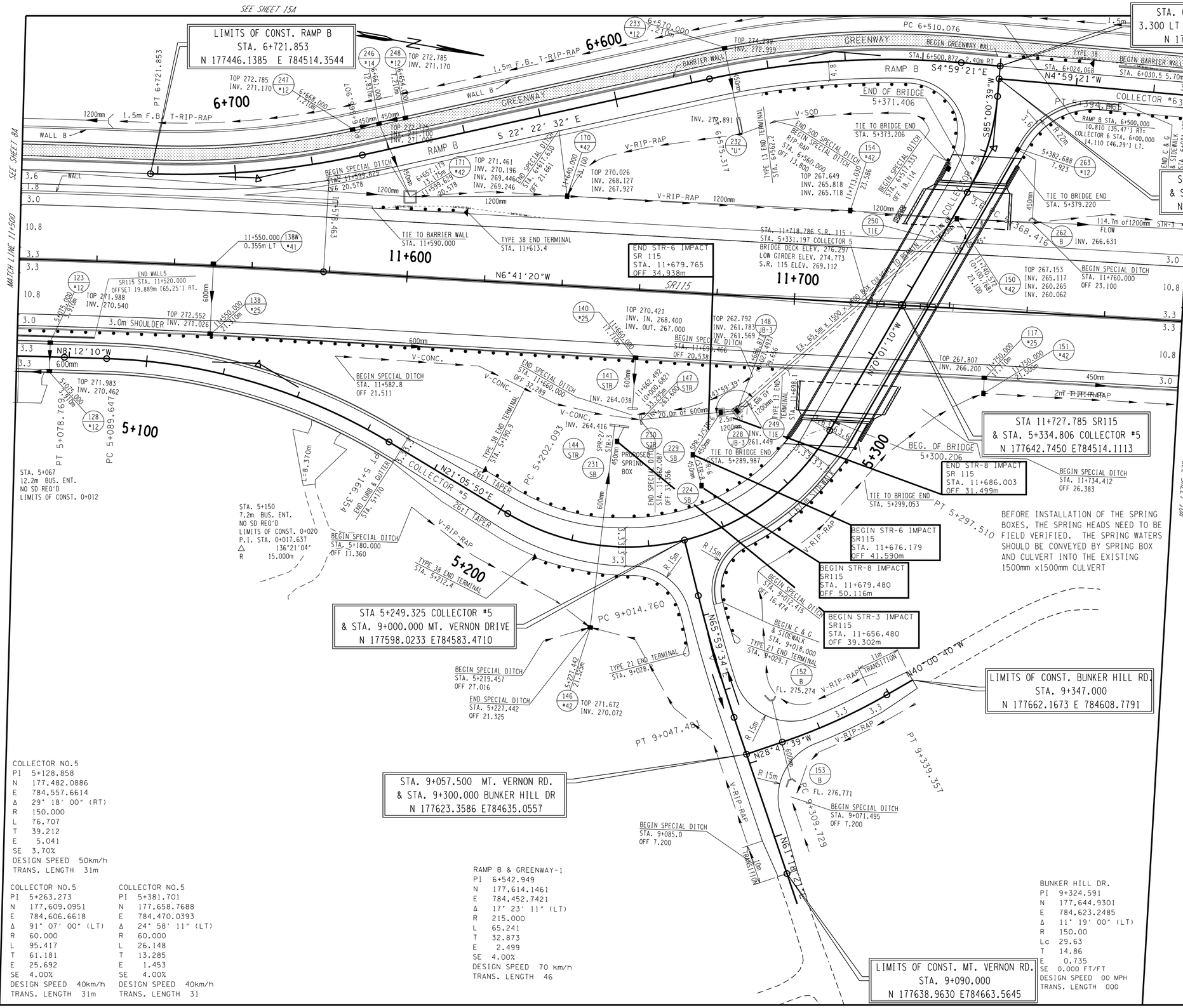
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS
STA. 11+500 - STA. 11+800
STA. 5+067 - STA. 5+399.092
STA. 6+500 - STA. 6+755
STA. 9+000 - STA. 9+090
STA. 9+300 - STA. 9+351
STA. 6+000 - STA. 6+050
SCALE: 1:500

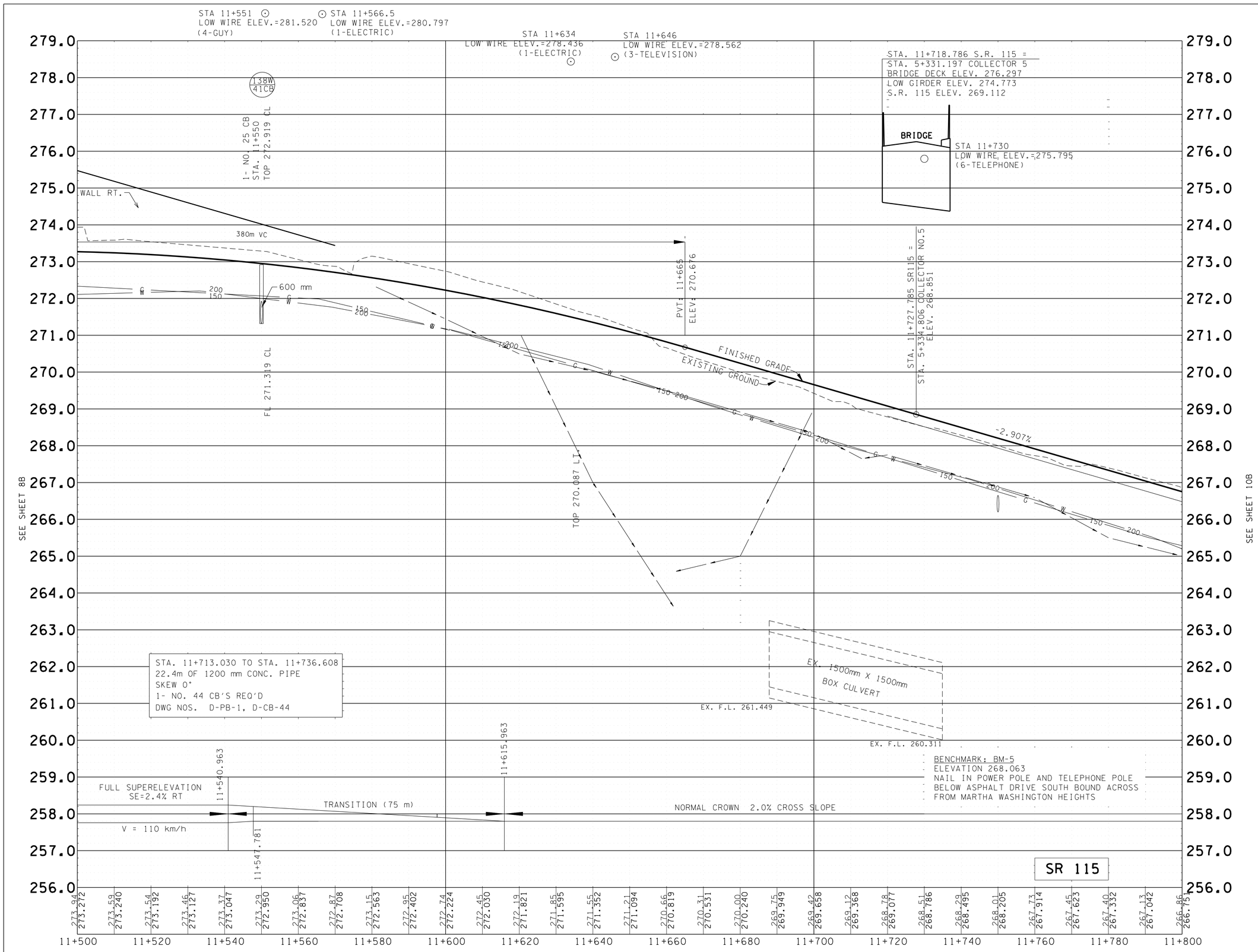
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	9A
CONST.	2016	47026-3279-14	9A

REV. 28-FEB-2003: ADDED ALIGNMENT & CURVE DATA FOR COLLECTOR NO.5, NO.6, MT. VERNON RD., RAMP B & GREENWAY ADJUSTED DRAINAGE & DRIVEWAYS ACCORDINGLY. REVISED MATCH LINES. SHIFTED SR115 TO THE WEST. OMITTED PREVIOUS ALIGNMENTS. REVISED DRAINAGE NEAR STA. 11+690.
REV. 15-MAR-2004: REVISED DITCH RT. OF STA. 5+180 TO STA 5+230 TO DRAIN NORTH. ADDED DRIVEWAY 9+351.00 RT.
REV. 24-SEP-2004: DESIGN OPENING IN GREENWAY WALL NEAR INTERSECTION WITH COLLECTOR #5.
REV. 6-AUG-2008: ADJUSTED END OF BUNKER HILL ROAD FROM 9+351.00 TO 9+347.00, AND REMOVED DRIVEWAY 9+351.
REV. 22-AUG.-2014: ADDED ADDITIONAL LANES TO ROADWAY SECTION FOR SR 115 AND REVISED COLLECTOR NUMBER 5 TO 3 LANES ACROSS BRIDGE. REVISED RAMP B ALIGNMENT.
REV. 19-SEP-2014: REVISED BRIDGE INFORMATION DUE TO GRADE CHANGE OF BRIDGE.



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	9B
CONST.	2016	47206-3279-14	9B

REV. 28-FEB-2003: REVISED PROFILE TO REFLECT NEW LOCATION. INDICATED NEW CROSSINGS FOR BRIDGE. ADDED RETAINING WALL RT.
REV. 22-AUG.-2014: REVISED BRIDGE DETAIL ON PROFILE.
REV. 19-SEP-2014: REVISED BRIDGE DETAIL DUE TO GRADE CHANGE OF BRIDGE.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

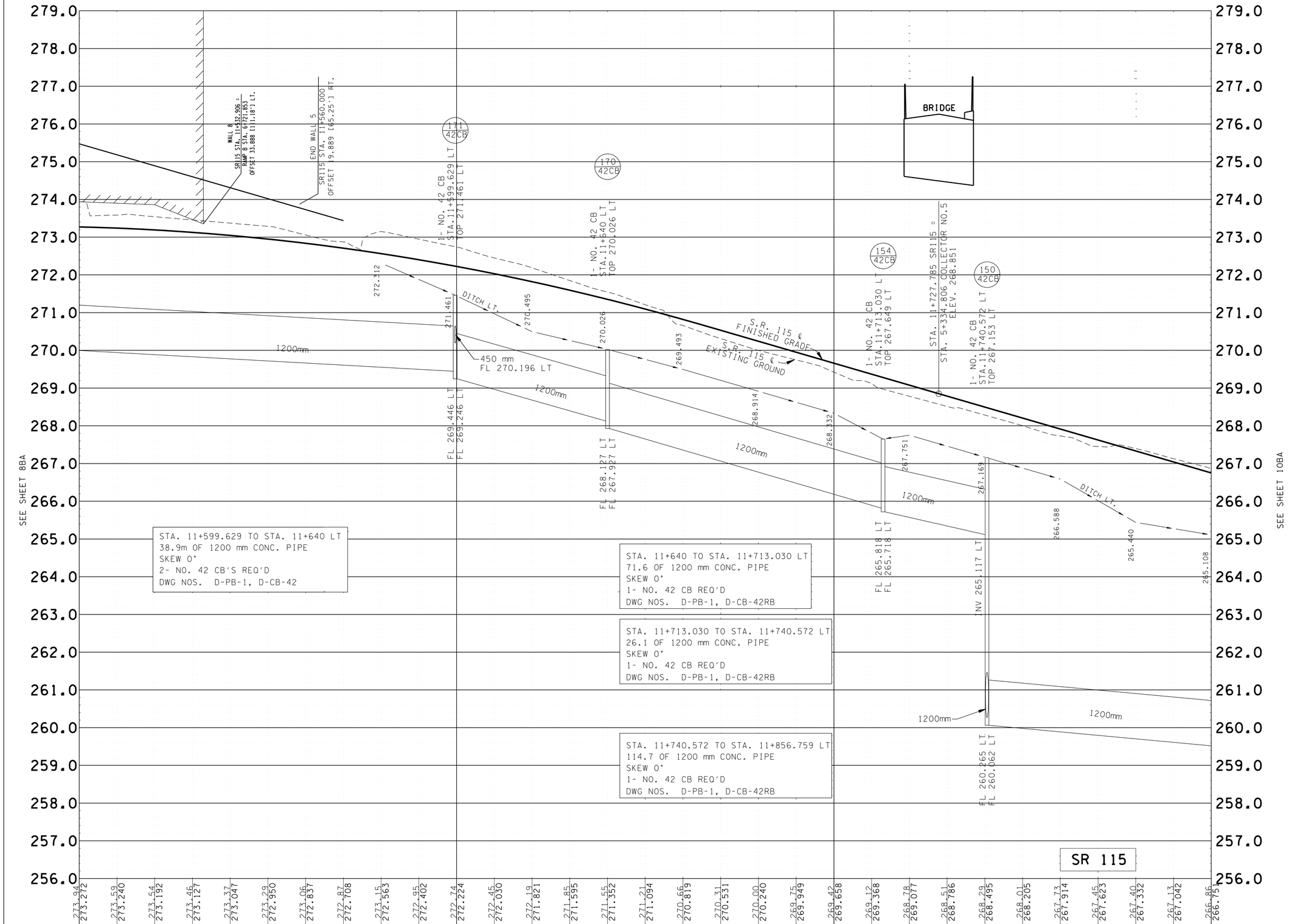
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
STATE ROUTE 115 C.L.

STA. 11+500
STA. 11+800

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	9BA



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

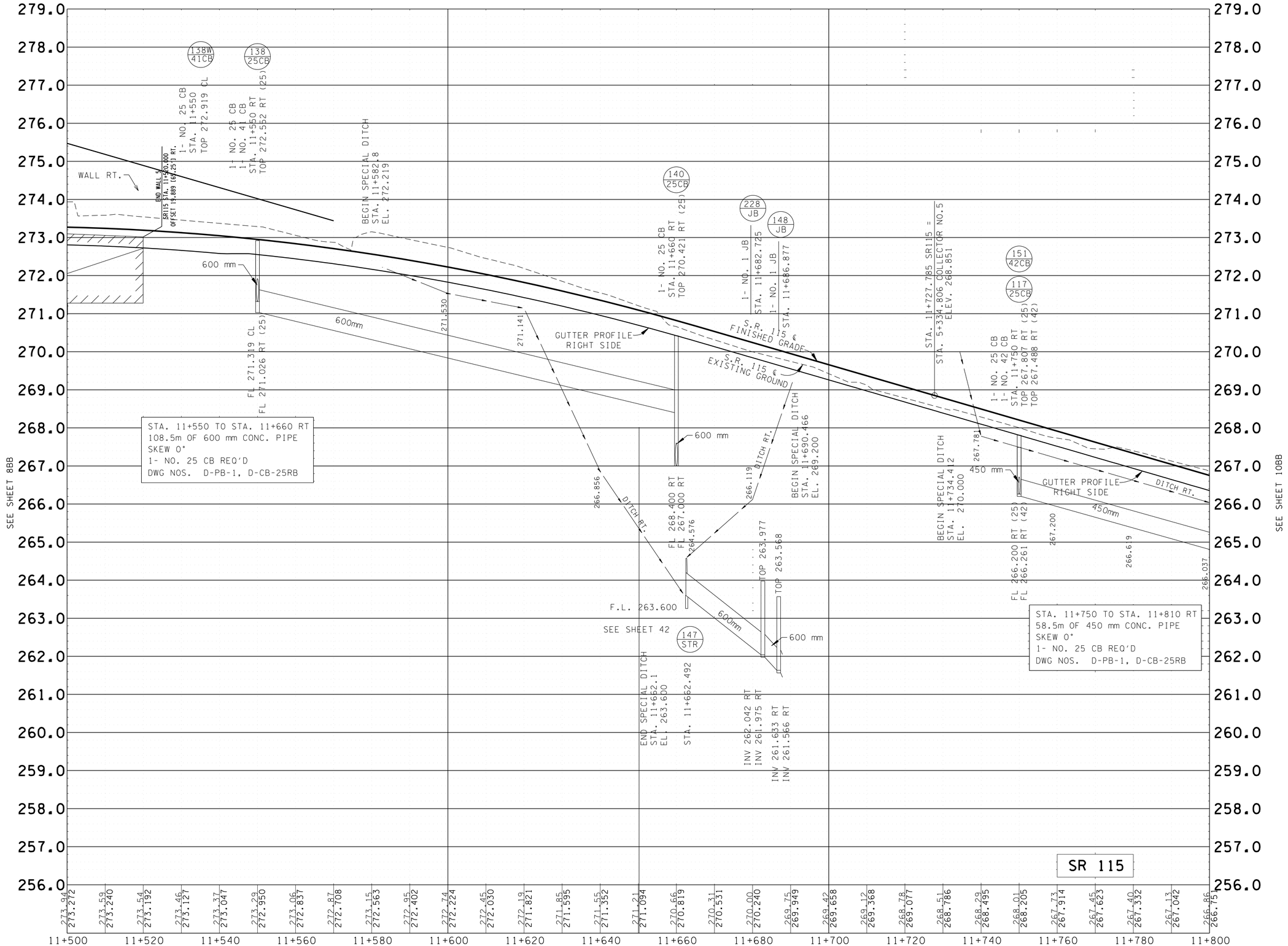
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 LEFT

STA. 11+500
STA. 11+800

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	9BB



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

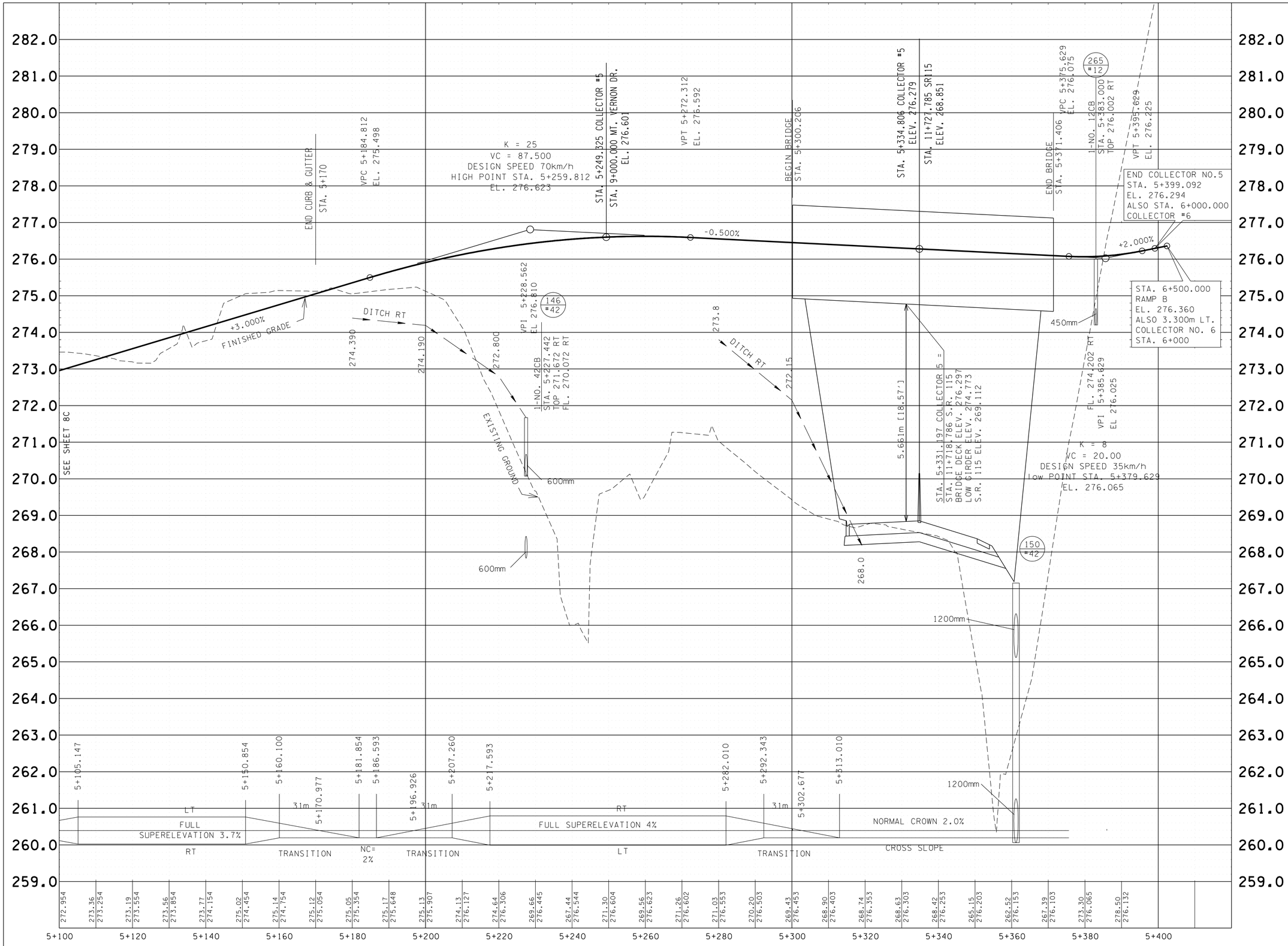
PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 RIGHT

STA. 11+500
STA. 11+800

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	9C
CONST.	2016	47026-3279-14	9C

REV. 28-FEB-2003: ADDED NEW PROFILE & DRAINAGE.
REV. 15MAR-2003: ADDED SPECIAL DITCH FROM STA 5+180 TO STA. 5+227.443
REV. 19-SEP-2014: REVISED PROFILE DUE TO GRADE CHANGE OF BRIDGE.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

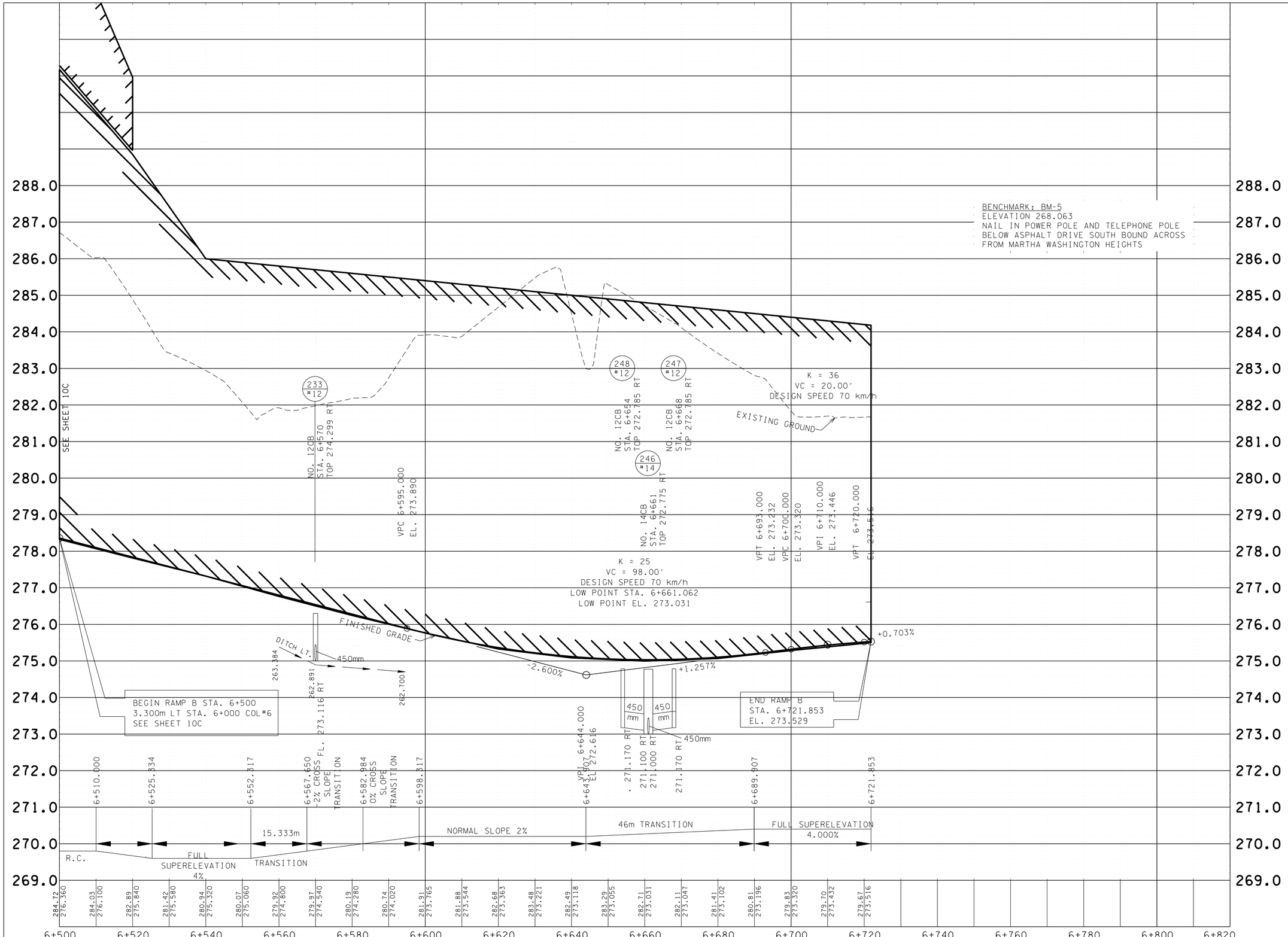
PROPOSED PROFILE
COLLECTOR #5

STA. 5+100.000
STA. 5+399.092

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	9D
CONST.	2016	47026-3279-14	9D

REV. 28-FEB-2003: ADDED NEW PROFILE & DRAINAGE.
REV. 22-AUG.-2014: REVISED RAMP B.
REV. 19-SEP-2014: REVISED PROFILE DUE TO GRADE CHANGE OF BRIDGE.



METRIC

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

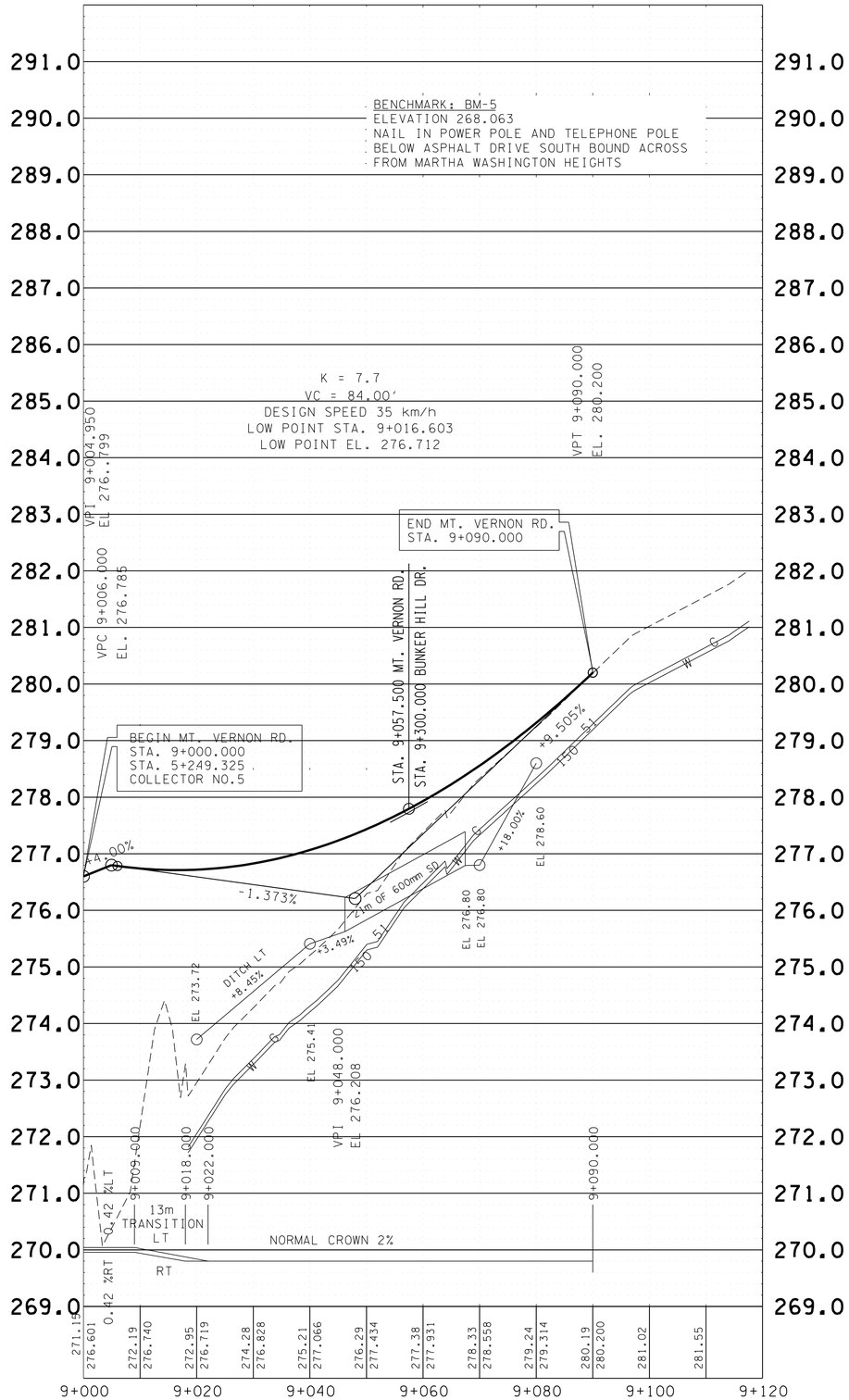
PROPOSED PROFILE
RAMP B

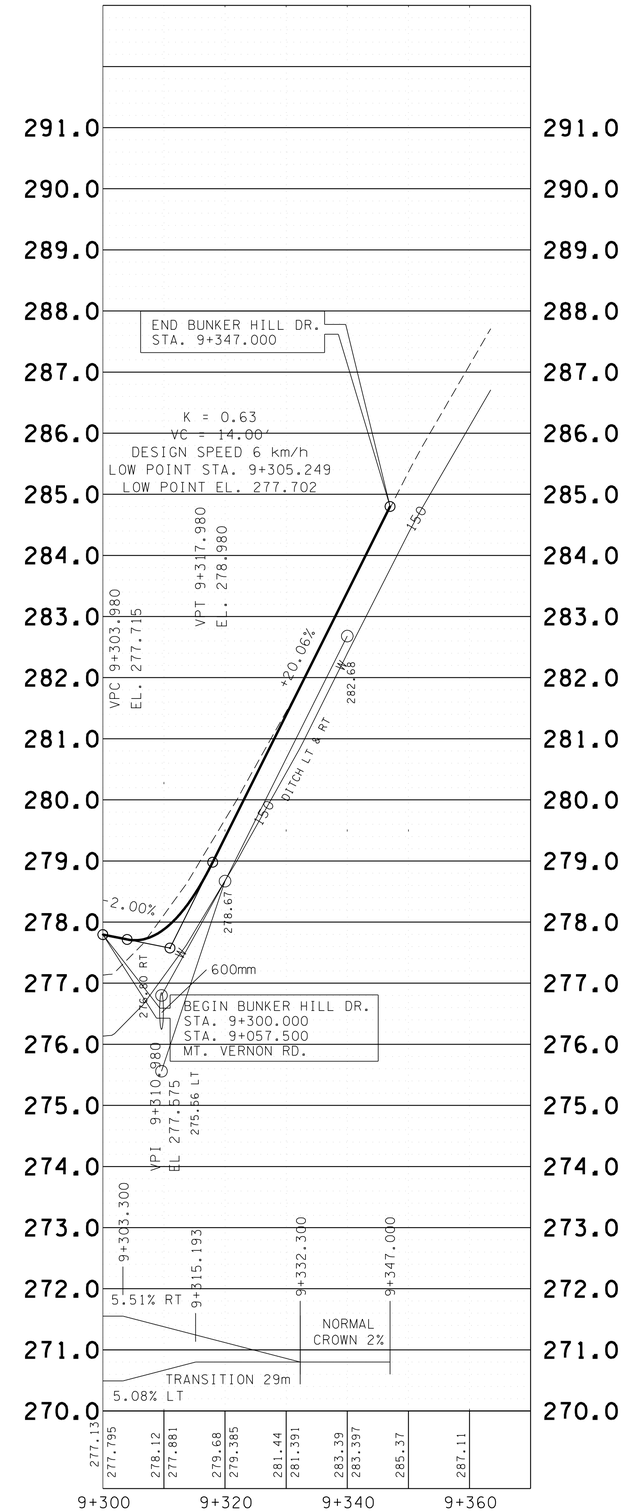
STA. 6+500.000
STA. 6+805.710

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	9E
CONST.	2016	47026-3279-14	9E

REV. 28-FEB-2003: REVISED PROFILE OF BUNKER HILL DR. & MT. VERNON RD.
REV. 6-AUG-2008: ADJUSTED END OF BUNKER HILL ROAD FROM 9+351.00 TO 9+347.00.
REV. 22-AUG.-2014: REVISED PROFILES MT. VERNON ROAD AND BUNKER HILL.
REV. 19-SEP-2014: REVISED PROFILE DUE TO GRADE CHANGE OF BRIDGE, AND MODIFIED 600MM PIPE.





COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

MT. VERNON ROAD
STA. 9+000 TO STA. 9+090
BUNKER HILL DR.
STA. 9+300 TO STA. 9+347

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	10
CONST.	2016	47026-3279-14	10

REV. 04-13-2001: REVISE SLOPE LIMITS COLLECTOR NO. 3
REV. 05-15-2001: REMOVED RETAINING WALL STA 111+920 TO STA. 111+980 ADJUSTED PROP R.O.W. & SLOPE LIMITS ACORDINGLY. ADDED TRACTS 66 & 70.
REV. 28-FEB-2003: SHIFTED SR115 TO THE WEST. ADDED COLLECTOR NO.6. REVISED R.O.W. LINED OUT TRACTS 64 66 AND 70, NOT USED. RENUMBERED TRACT 68 TO 8068.
REV. 15MAR-2004: CROSS HATCHED LOSS OF ACCESS TRACT 67. CROSS HATCHTED TRACT 8068 AS UNECONOMIC REMNANT AND LABELED HOUSE AS REMOVED PRIOR TO ALIGNMENT CHANGE.
REV. 22-AUG.-2014: REVISED SLOPE LIMITS.
REV. 7-NOV-2014 REVISED SLOPE LIMITS TRACT 56 AND 67.

L.O.A. SEE SHEET 16
TRACT NO. 67
E. BRUCE FOSTER
PROPOSED R.O.W.
WMC-1/EPH-1
6+300
6+200
6+100
N24°36'04"W
PC 6+323.274
PT 6+321.946
PC 6+287.716
N4°59'21"W
COLLECTOR #6
BEGIN STR-7
IMPACT SR115
STA. 12+097.127
OFF 50.709m LT.
OLD SPRING HOUSE
EX. STR-3
TRACT NO. 56
MARY EVELYN FOSTER
12+000
INV. 255.720
BM #6
ELEV. 260.255
11+900
EX. STR-3
INV. 263.615
SR115
N6°41'20"W
150m LINE
INV. 259.844
MATCH LINE STA. 12+100
SEE SHEET 11
MATCH LINE STA. 11+800
SEE SHEET 9
CUT
INV. 264.254
BENCHING
TS 11+917.995
TRACT NO. 63
MELANIE DOSS
RES. MOVED PRIOR TO ALIGNMENT CHANGE AND COLLECTOR ROAD RELOCATION (UNECONMIC REMNANT)
TRACT NO. 8068
GEOFFREY S. & ALICIA H. KRANZ
CURVE COL6-2
PI 6+349.479
N 178,001.8132
E 784,407.1122
Δ 29° 22′ 06″ (RT)
R 100.000
L 51.257
T 26.205
S.E. 4.0%
DESIGN SPEED 50km/h
TRANS. LENGTH 32
PROPOSED R.O.W. & C.A. FENCE
TRACT NO. 69
CLIFFORD E. BARBOUR JR.
PROPOSED R.O.W. & C.A. FENCE
2-S-F RES.
~~64~~
~~ELVIN ELLIS & HARRIET BROWN OVERTON~~
2-S-F RES.
~~TRACT NO. 66~~
~~WADE H & RUBY N BOSWELL~~
CURVE COL6-1
PI 6+305.000
N 177,961.0642
E 784,425.7694
Δ 19° 36′ 43″ (LT)
R 100.000
L 34.229
T 17.284
S.E. 4.0%
DESIGN SPEED 50km/h
TRANS. LENGTH 32
~~TRACT NO. 70~~
~~HOWARD L. & GAYNELL H. THOMAS~~
ASPH.
I.P.

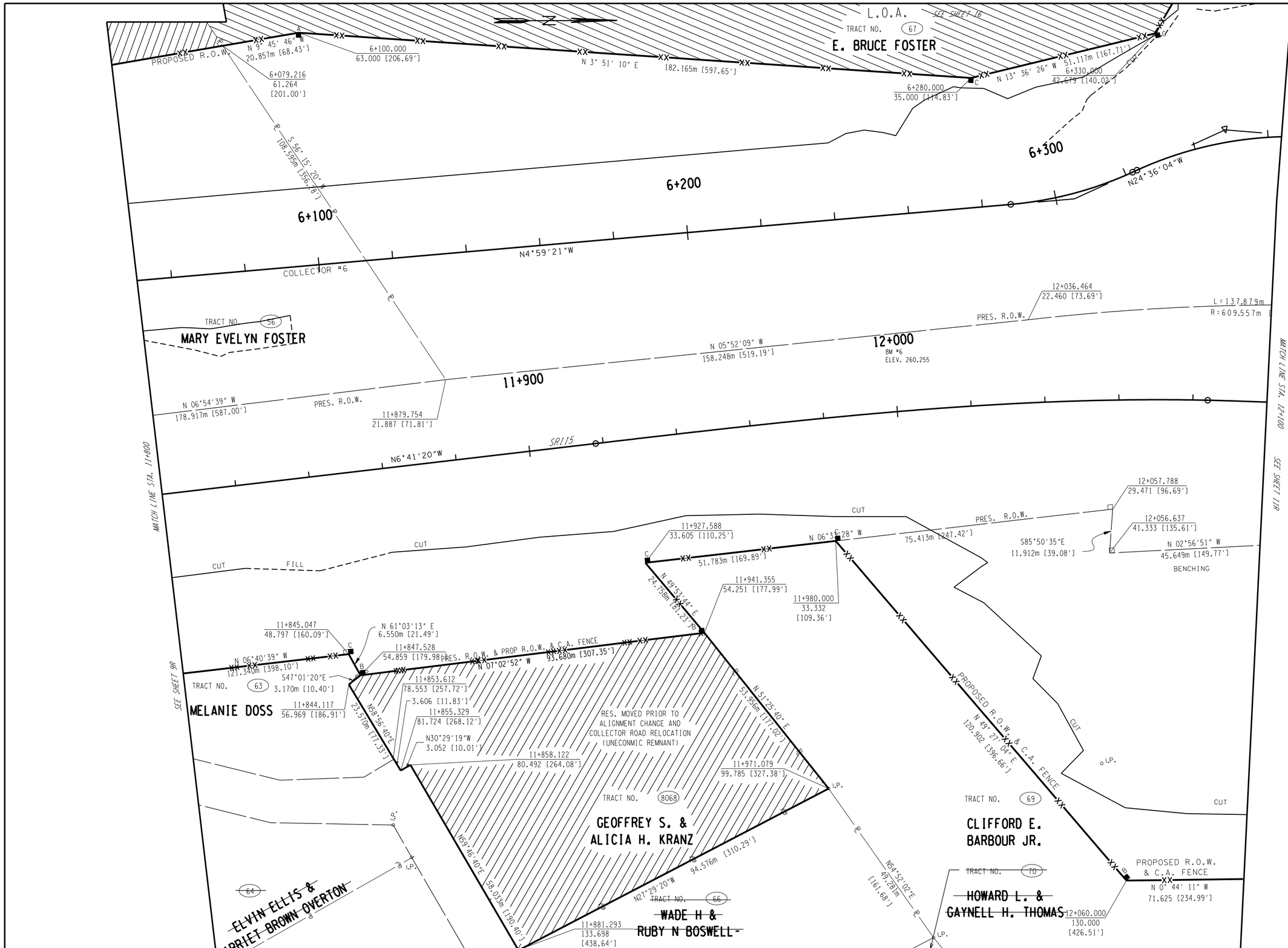
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 11+800 - STA. 12+100
STA. 6+050 - STA. 6+360

SCALE: 1:500



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	10R
CONST.	2016	47026-3279-14	10R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 7-NOV-2014 REVISED SLOPE LIMITS TRACTS 56 AND 67.

METRIC

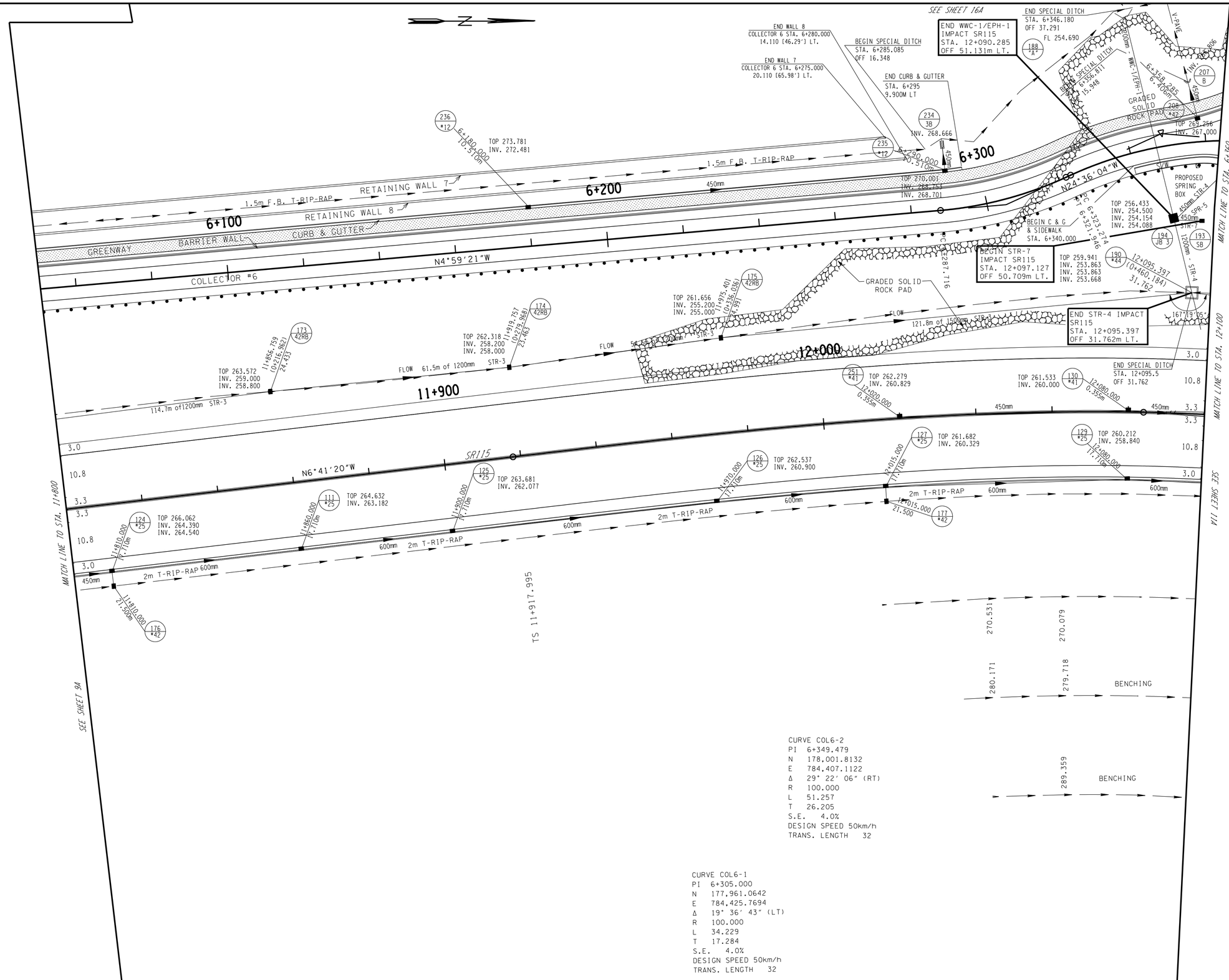
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA. 11+800 - STA. 12+100
STA. 6+050 - STA. 6+360

SCALE: 1:500



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	10A
CONST.	2016	47026-3279-14	10A

REV. 05-15-2001: REMOVED RETAINING WALL STA 111+920 TO STA. 111+980. ADDED GUARD RAIL TO BARBER HILL ROAD.
REV. 28-FEB-2003: SHIFTED SR115 TO THE WEST. ADDED COLLECTOR NO.6. REVISED DRAINAGE.

CURVE COL6-2
PI 6+349.479
N 178,001.8132
E 784,407.1122
Δ 29° 22′ 06″ (RT)
R 100.000
L 51.257
T 26.205
S.E. 4.0%
DESIGN SPEED 50km/h
TRANS. LENGTH 32

CURVE COL6-1
PI 6+305.000
N 177,961.0642
E 784,425.7694
Δ 19° 36′ 43″ (LT)
R 100.000
L 34.229
T 17.284
S.E. 4.0%
DESIGN SPEED 50km/h
TRANS. LENGTH 32

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

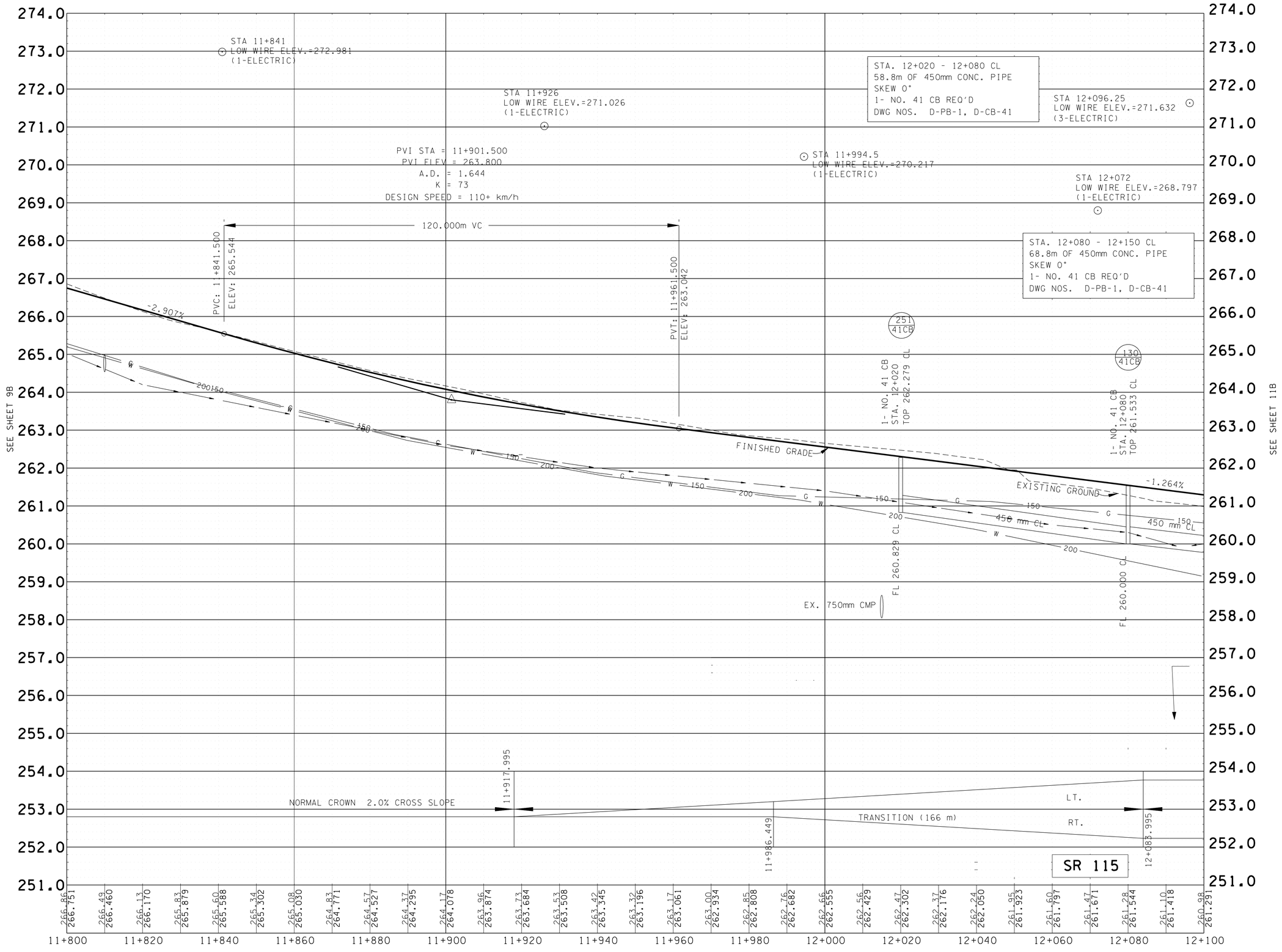
PROPOSED LAYOUT

STA. 11+800 - STA. 12+100
STA. 6+050 - STA. 6+360

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	10B
CONST.	2016	47206-3279-14	10B

REV. 28-FEB-2003: REVISED PROFILE TO REFLECT NEW LOCATION.



METRIC

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

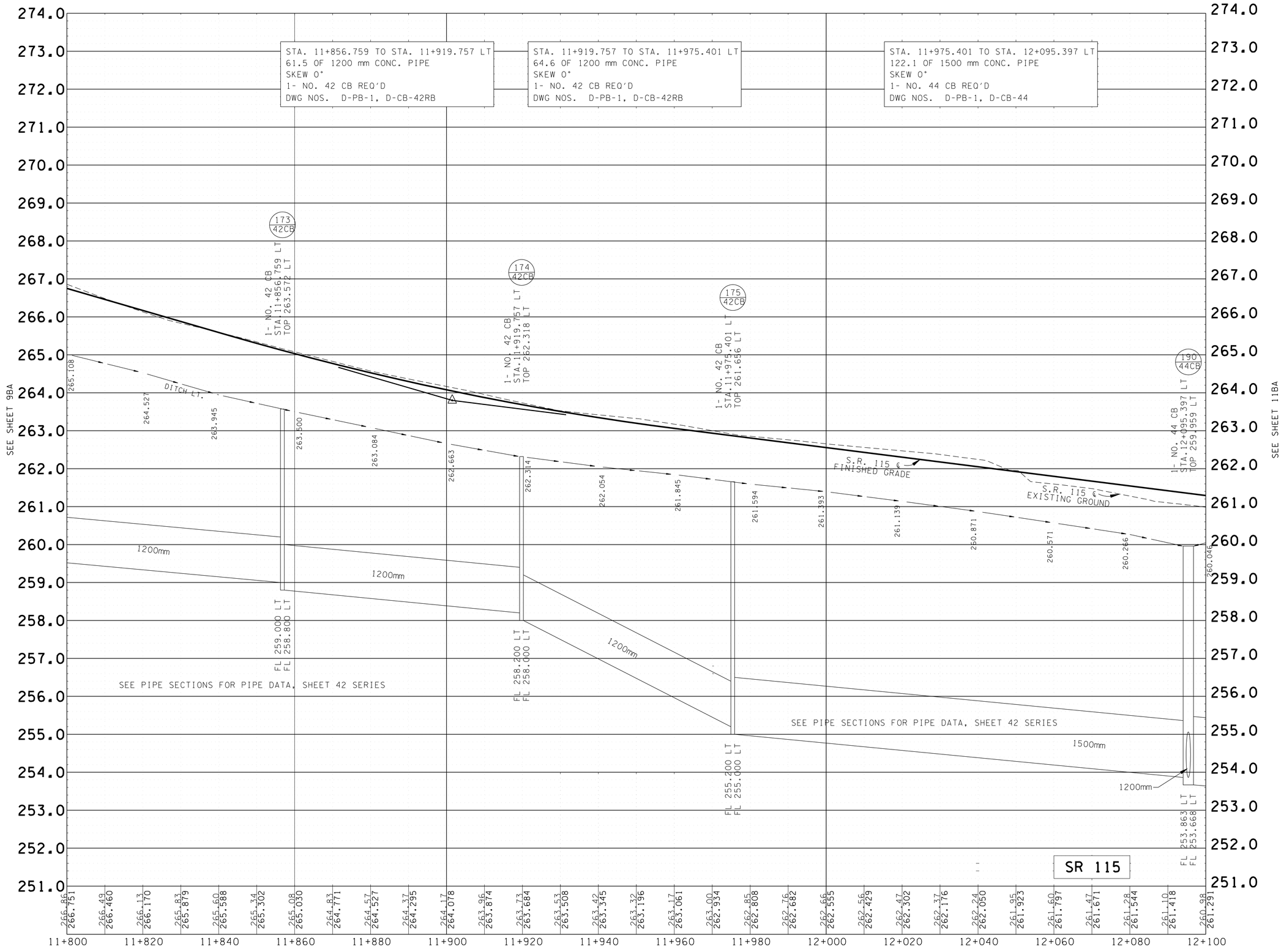
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
STATE ROUTE 115 C.L.

STA. 11+800
STA. 12+100

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	10BA



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

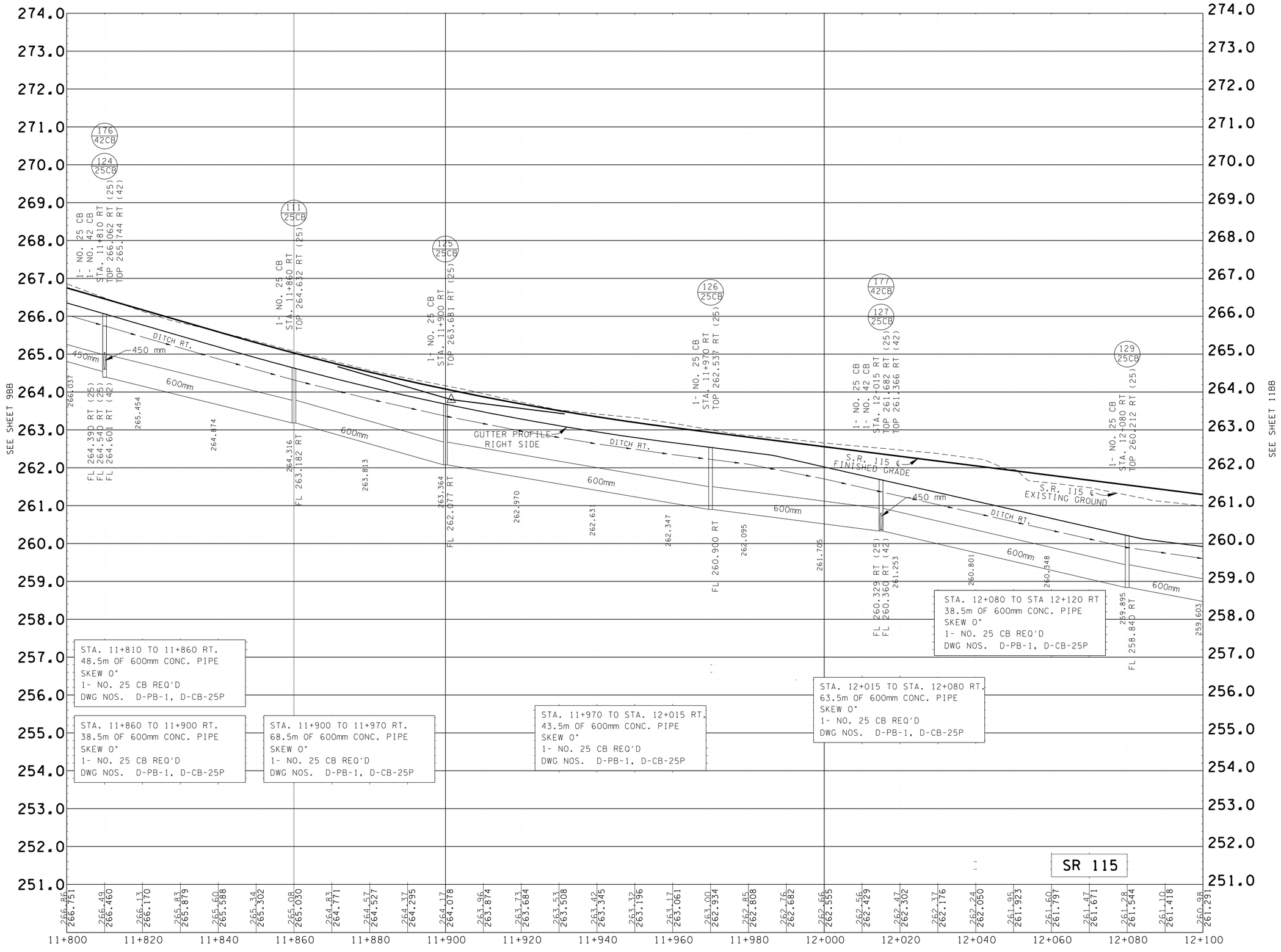
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 LEFT

STA. 11+800
STA. 12+100

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	10BB



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

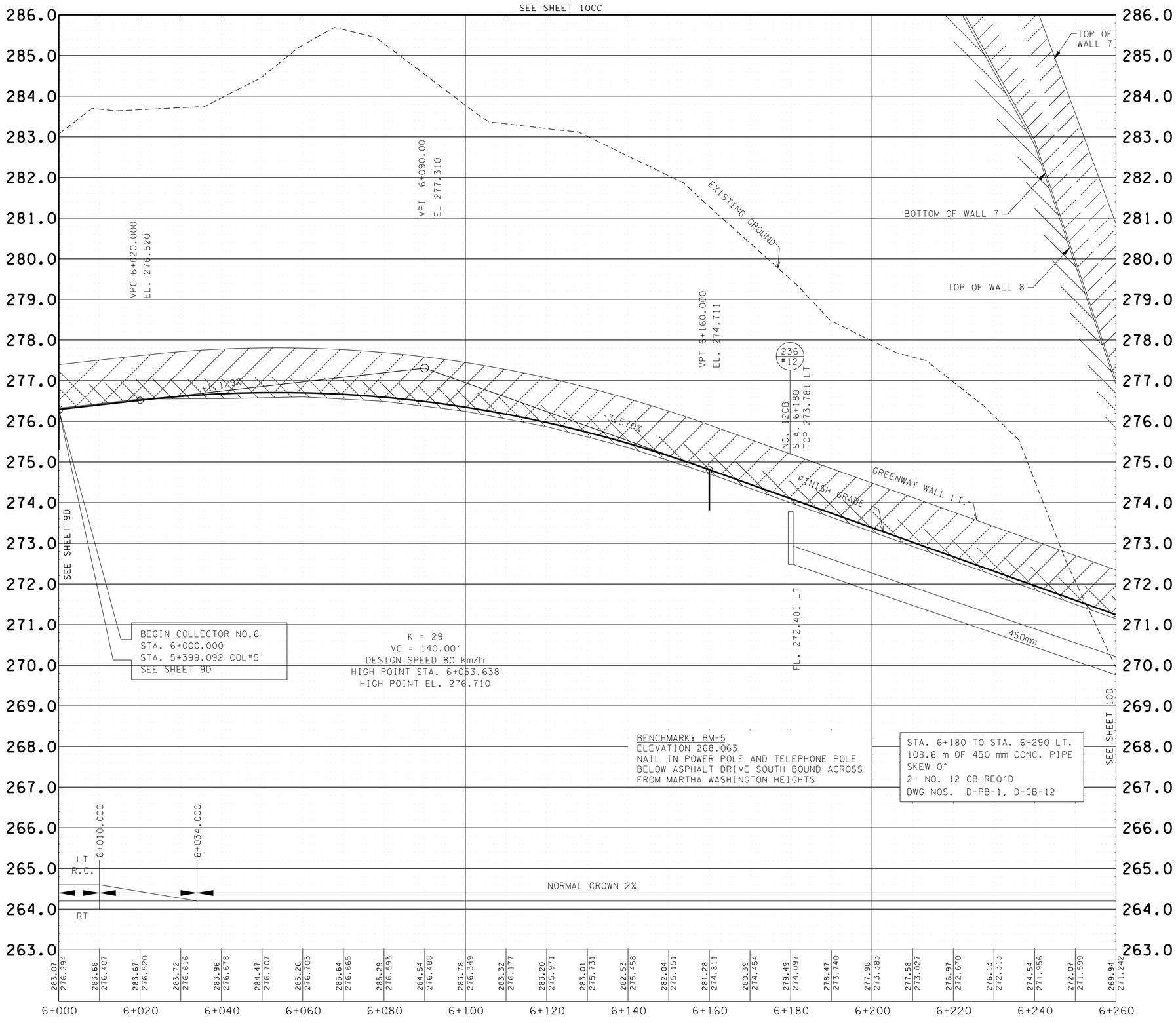
PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 RIGHT

STA. 11+800
STA. 12+100

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	10C
CONST.	2016	47026-3279-14	10C

REV. 28-FEB-2003: ADDED NEW PROFILE.
REV. 19-SEP-2014: REVISED PROFILE DUE TO GRADE CHANGE OF BRIDGE.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

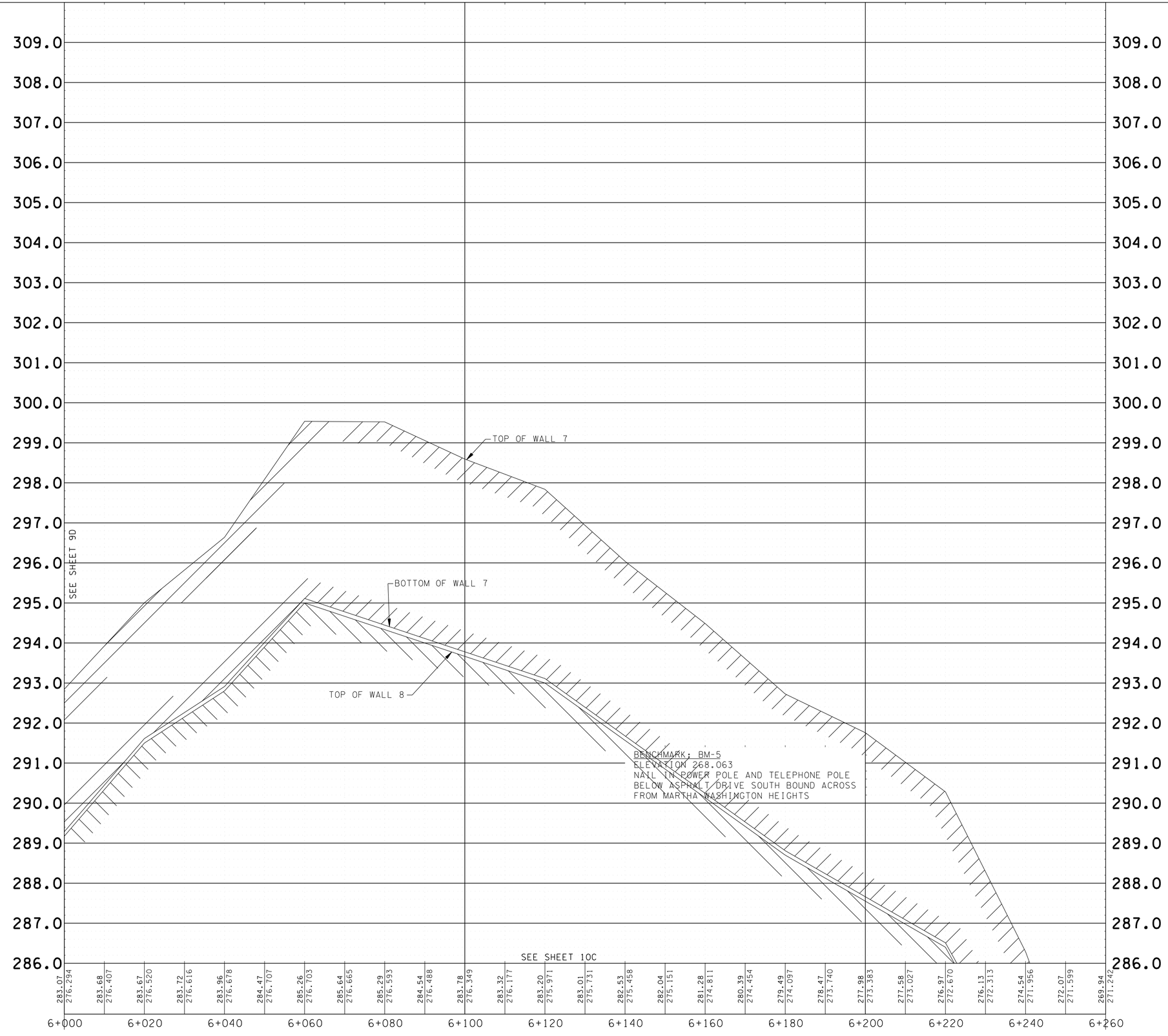
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
COLLECTOR #6

STA. 6+000.000
STA. 6+260.000

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	10CC
CONST.	2016	47026-3279-14	10CC



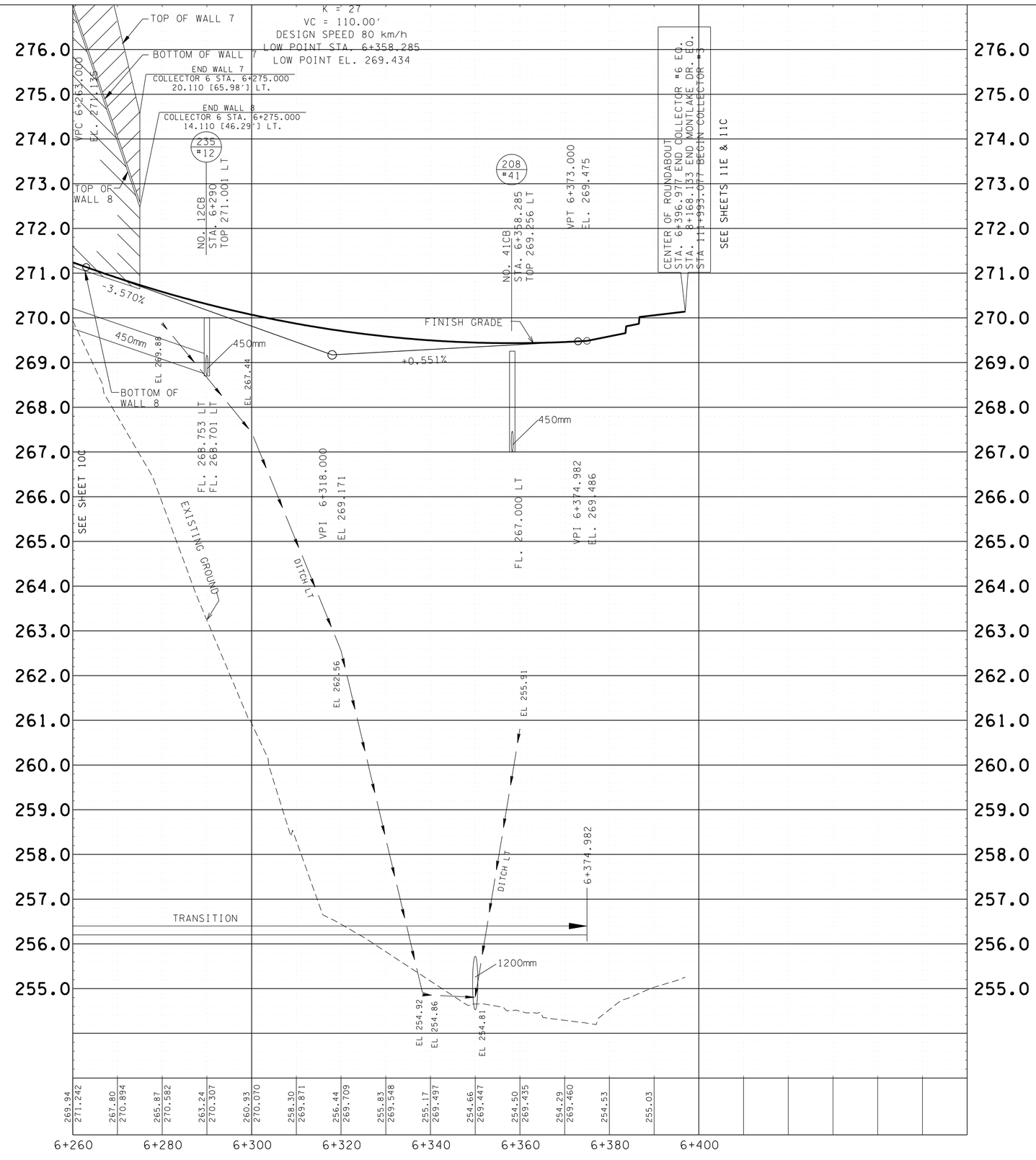
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
COLLECTOR #6

STA. 6+000.000
STA. 6+260.000

SCALE HORIZ. 1:500
VERT. 1:50



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	10D
CONST.	2016	47026-3279-14	10D

REV. 28-FEB-2003: ADDED NEW PROFILE.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

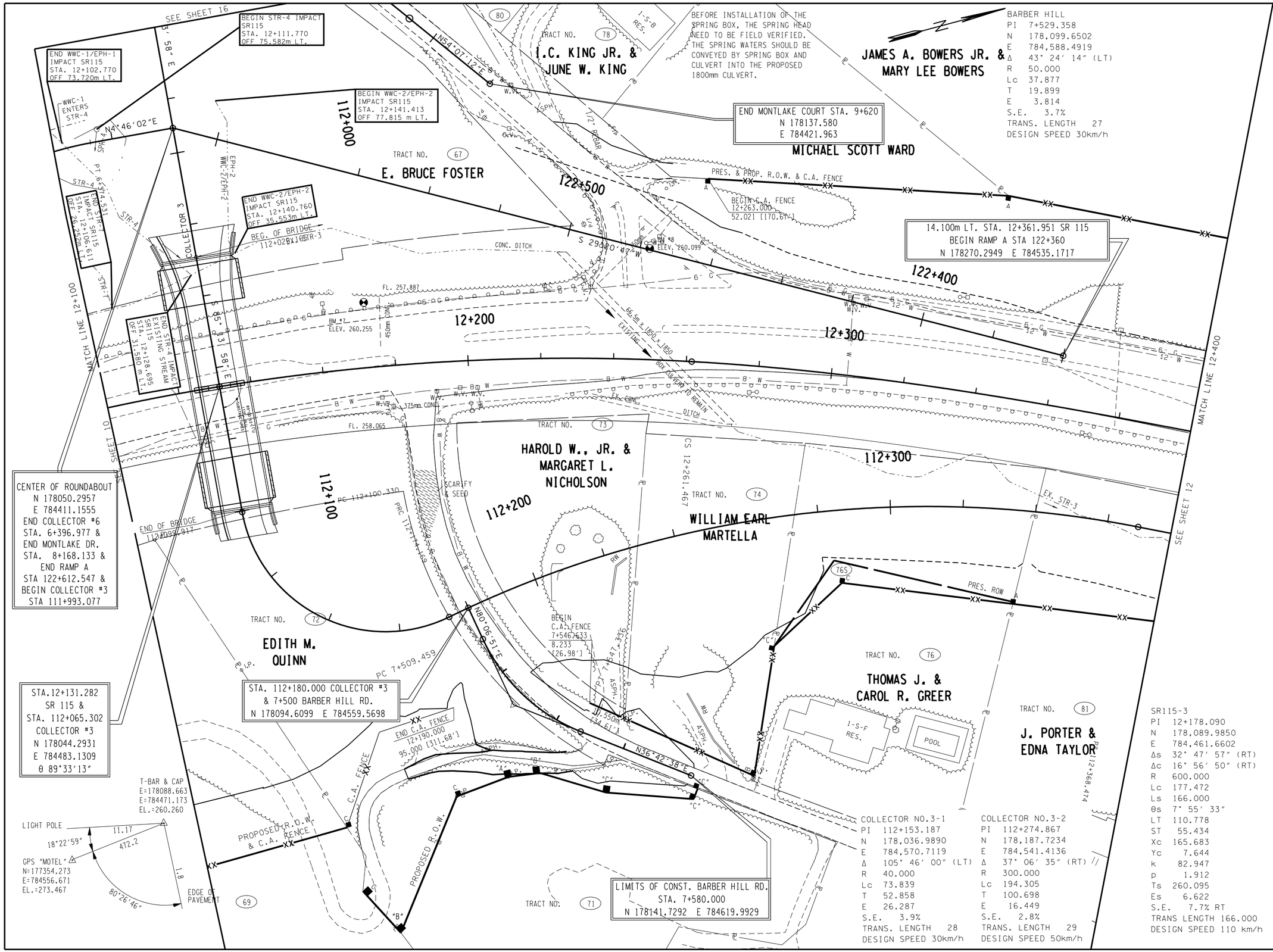
PROPOSED PROFILE
COLLECTOR #6

STA. 6+260.000
STA. 6+393.231

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	11
CONST.	2016	47026-3279-14	11

REV. 28-FEB-2003: SHIFTED SR115 TO THE WEST. REVISED ALIGNMENT FOR COLLECTOR NO.6, NO.3 & MONTLAKE DR. REVISED MATCH LINES. ADJUSTED R.O.W. & DRIVEWAYS ACCORDINGLY.
REV. 15-MAR-2004: ADDED TRACT 76S. REVISED ACCESS CONTROL FENCE TRACT 72. RESTORED ACQUISITION TO PRIOR CONDITION TRACT 78 & 80.
REV. 22-AUG.-2014: REVISED SLOPE LIMITS AND ROW LINES.
REV. 7-NOV-2014: ADDED ROUND-ABOUT AT INTERSECTION RAMP A AND COLLECTOR 3.
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. TRACTS 80, 78 AND WARD PRPOERTY.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

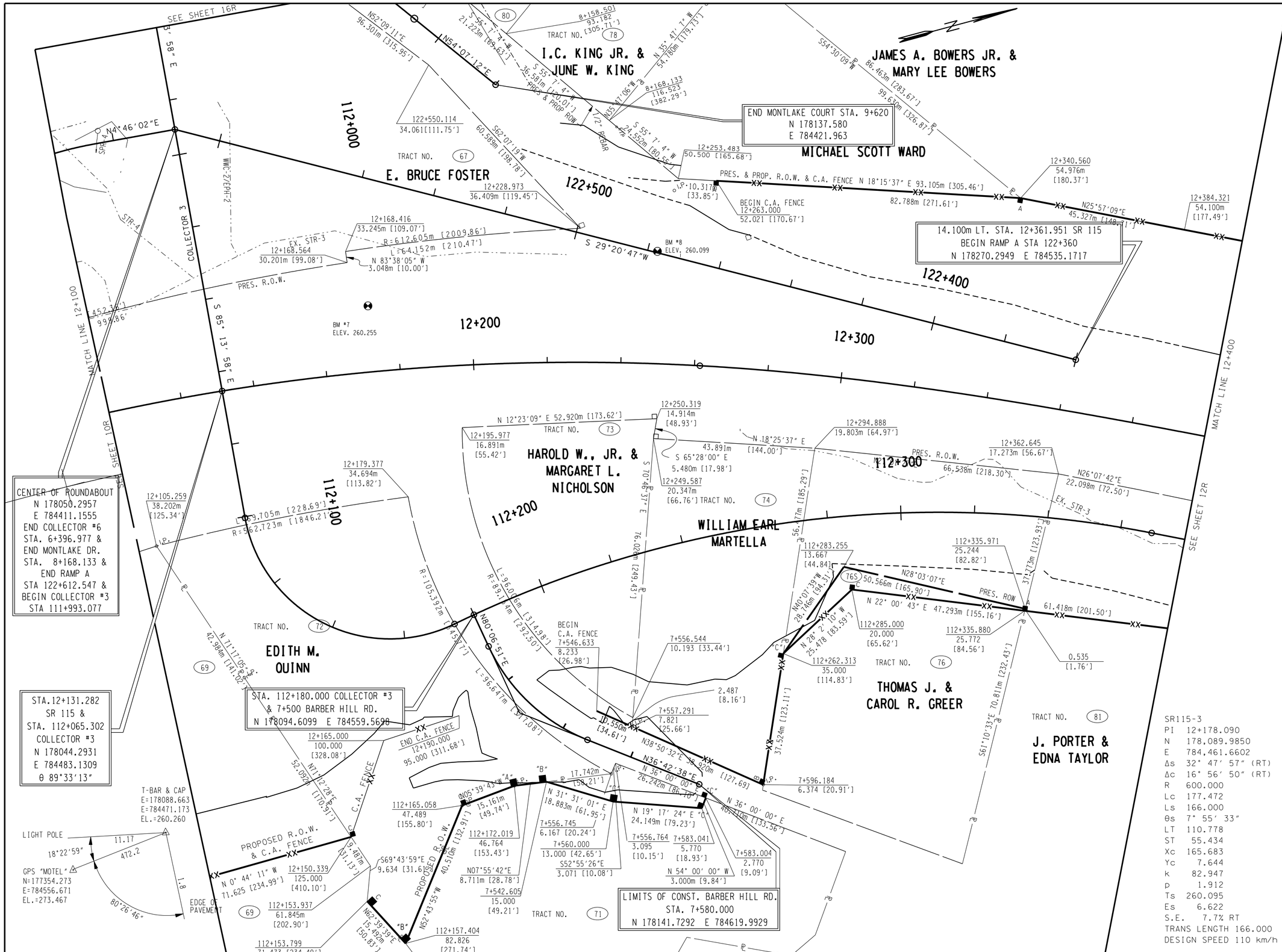
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.12+100 - STA. 12+400
STA. 112+004.931 - STA. 112+378
STA.122+360 - STA. 122+609.219
STA. 7+500 - STA. 7+580
STA. 6+360 - STA. 6+393.231
STA. 9+585 - STA. 9+620
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	11R
CONST.	2016	47026-3279-14	11R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 7-NOV-2014: ADDED ROUND-ABOUT AT INTERSECTION RAMP A AND COLLECTOR 3.
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. TRACTS 80, 78 AND WARD PROPERTY.



SR115-3
PI 12+178.090
N 178,089.9850
E 784,461.6602
Δs 32° 47′ 57″ (RT)
Δc 16° 56′ 50″ (RT)
R 600.000
Lc 177.472
Ls 166.000
θs 7° 55′ 33″
LT 110.778
ST 55.434
Xc 165.683
Yc 7.644
k 82.947
p 1.912
Ts 260.095
Es 6.622
S.E. 7.7% RT
TRANS LENGTH 166.000
DESIGN SPEED 110 km/h

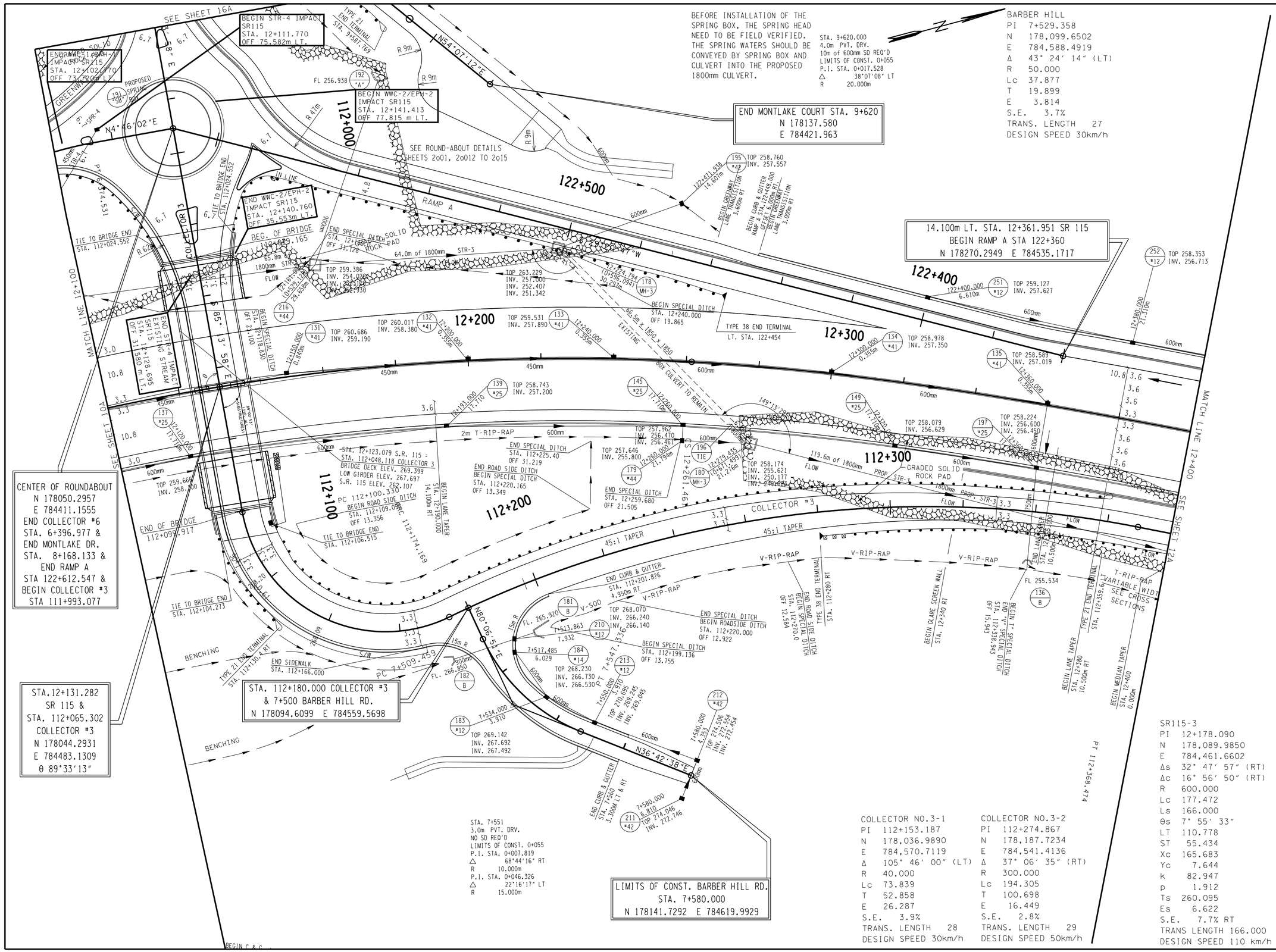
METRIC

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

STA.12+100 - STA. 12+400
STA. 112+004.931 - STA. 112+378
STA.122+360 - STA. 122+609.219
STA. 7+500 - STA. 7+580
STA. 6+360 - STA. 6+393.231
STA. 9+585 - STA. 9+620
SCALE: 1:500



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	11A
CONST.	2016	47026-3279-14	11A

REV. 28-FEB-2003: SHIFTED SR115 TO THE WEST. REVISED ALIGNMENT FOR COLLECTOR NO.6, NO.3 & MONTLAKE DR. REVISED MATCH LINES. ADJUSTED DRAINAGE & DRIVEWAYS ACCORDINGLY.
REV. 15MAR-2004: REVISED CUL-DE-SAC TO IMPROVE ACCESS TO TRACT 78.
REV. 22-AUG.-2014: REVISED COLLECTOR 3 TO A 3 LANE SECTION ACROSS BRIDGE. REVISED INTERSECTIONS AT RAMP A, COLLECTOR 6 AND AT BARBER HILL ROAD.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

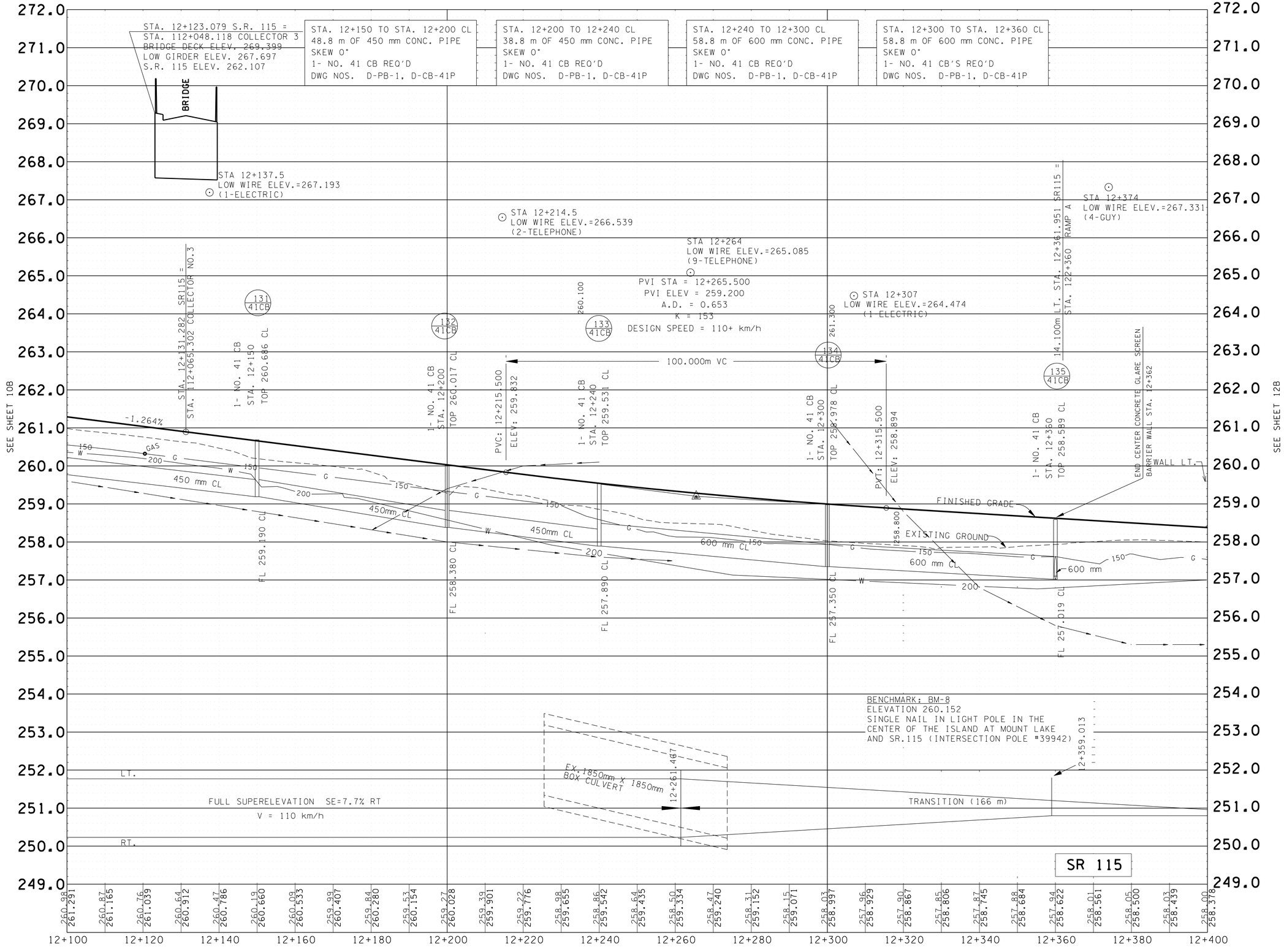
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.12+100 - STA. 12+400
STA. 112+004.931 - STA. 112+378
STA.122+360 - STA. 122+609.219
STA. 7+500 - STA. 7+580
STA. 6+360 - STA. 6+393.231
STA. 9+585 - STA. 9+620
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	11B
CONST.	2016	47206-3279-14	11B

REV. 28-FEB-2003: REVISED PROFILE TO REFLECT NEW LOCATION.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

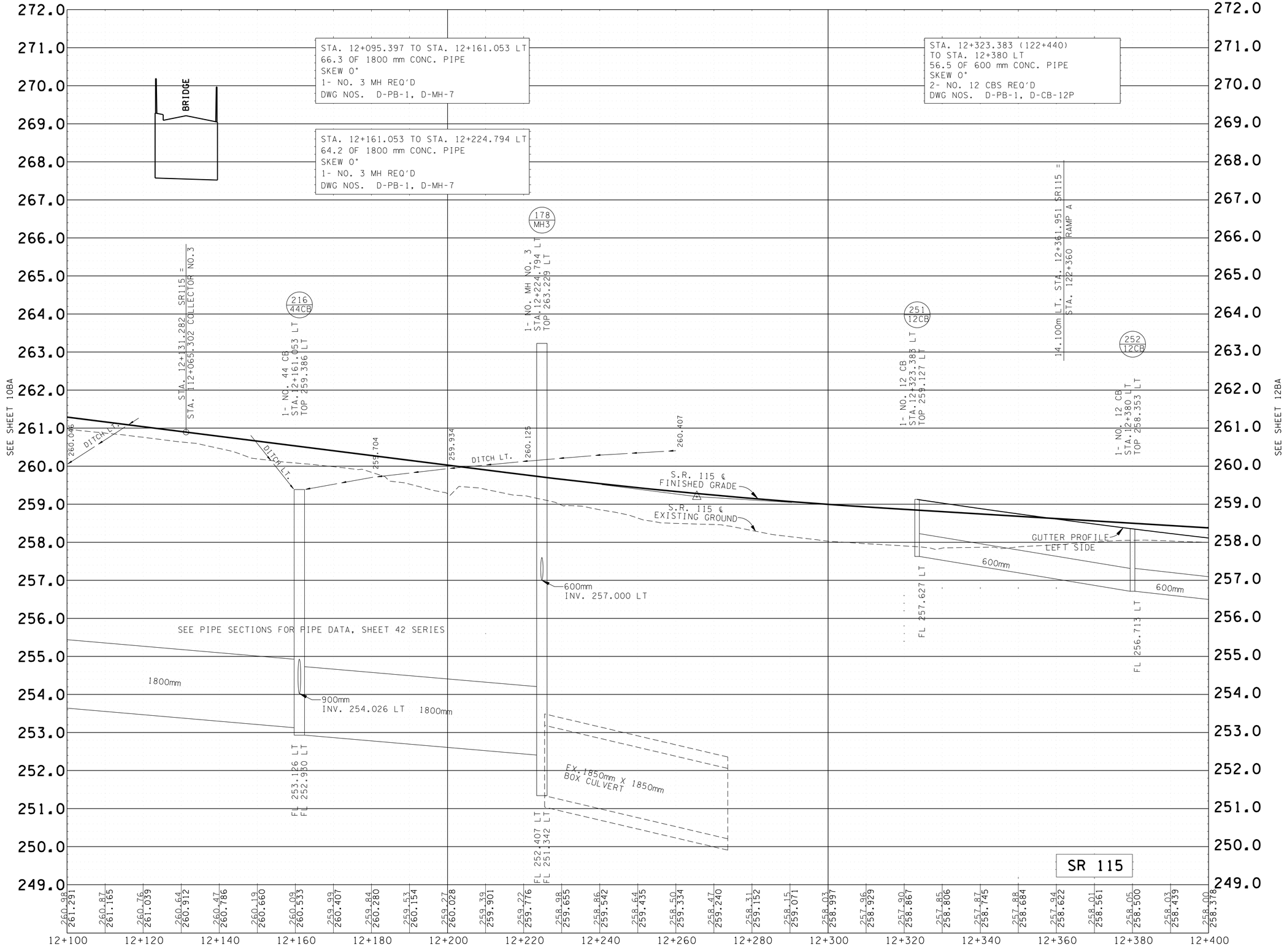
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
STATE ROUTE 115 C.L.

STA. 12+100
STA. 12+400

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	11BA



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

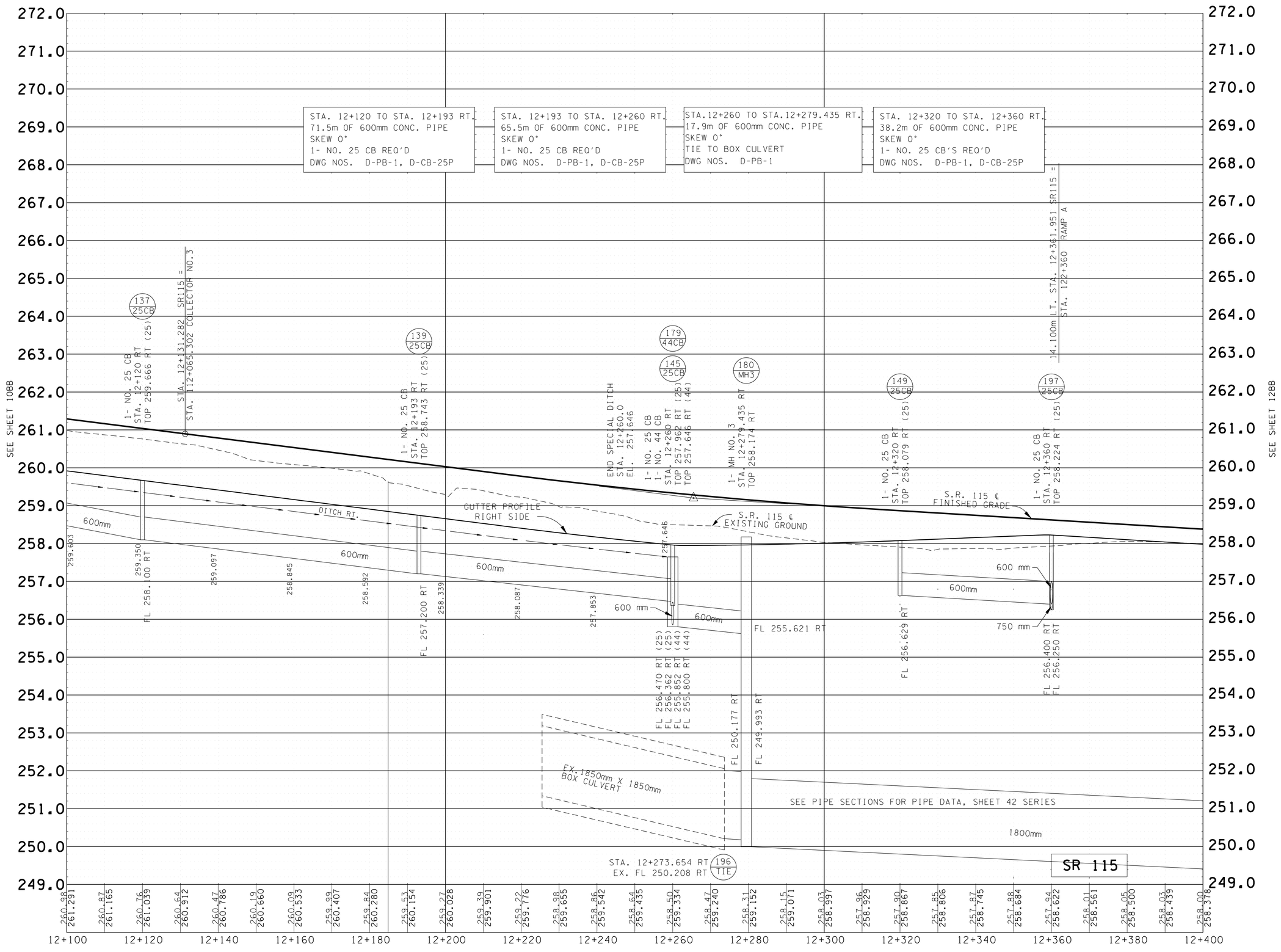
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 LEFT

STA. 12+100
STA. 12+400

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	11BB



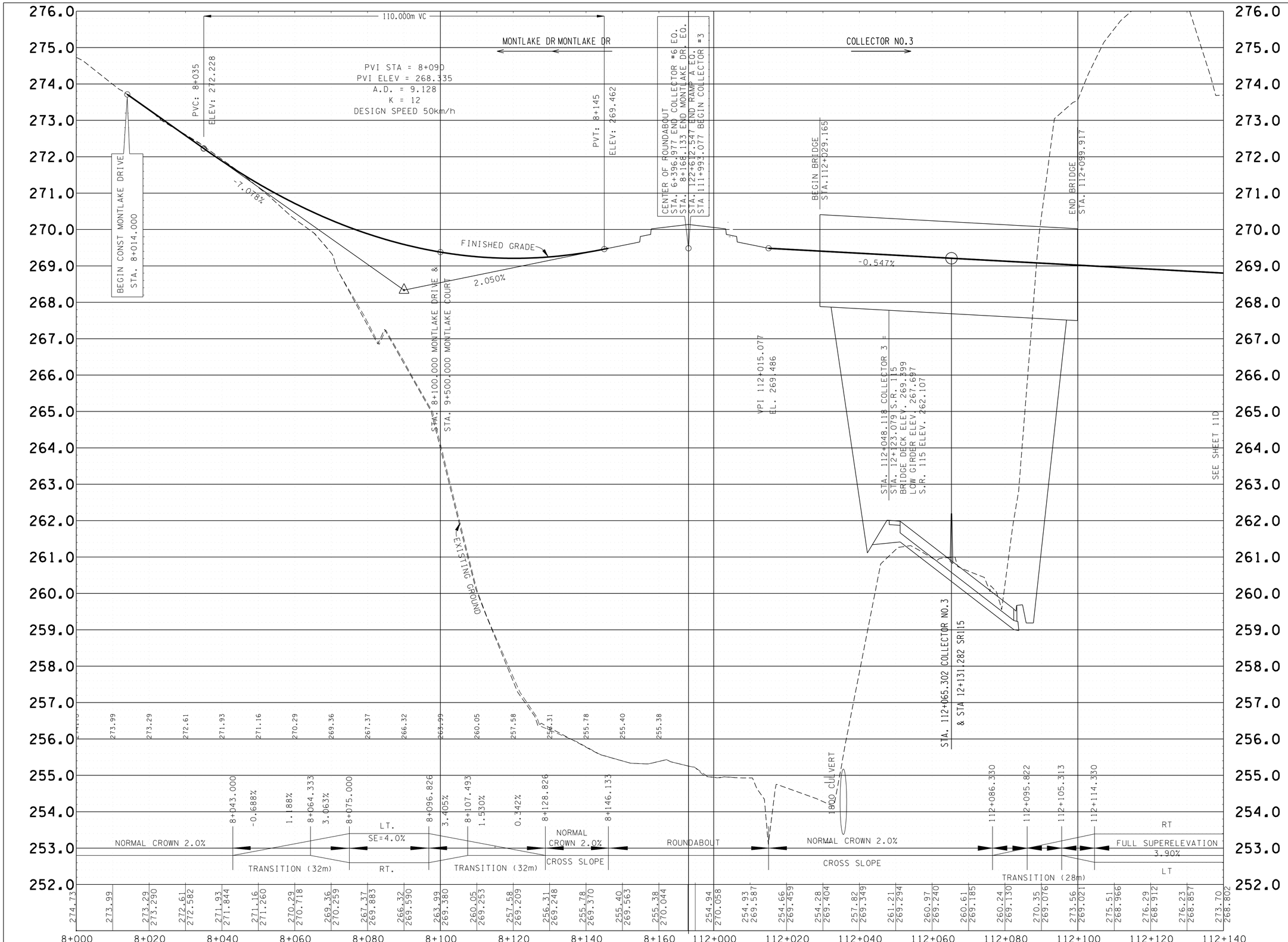
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 RIGHT

STA. 12+100
STA. 12+400

SCALE HORIZ. 1:500
VERT. 1:50



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	11C
CONST.	2016	47026-3279-14	11C

REV. 04-13-2001: REVISED PROFILE MONTLAKE ROAD.
REV. 28-FEB-2003: REVISED PROFILE TO REFLECT NEW ALIGNMENT.
REV. 7-NOV-2014: ADDED ROUNDABOUT AND REVISED PROFILE.

METRIC

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

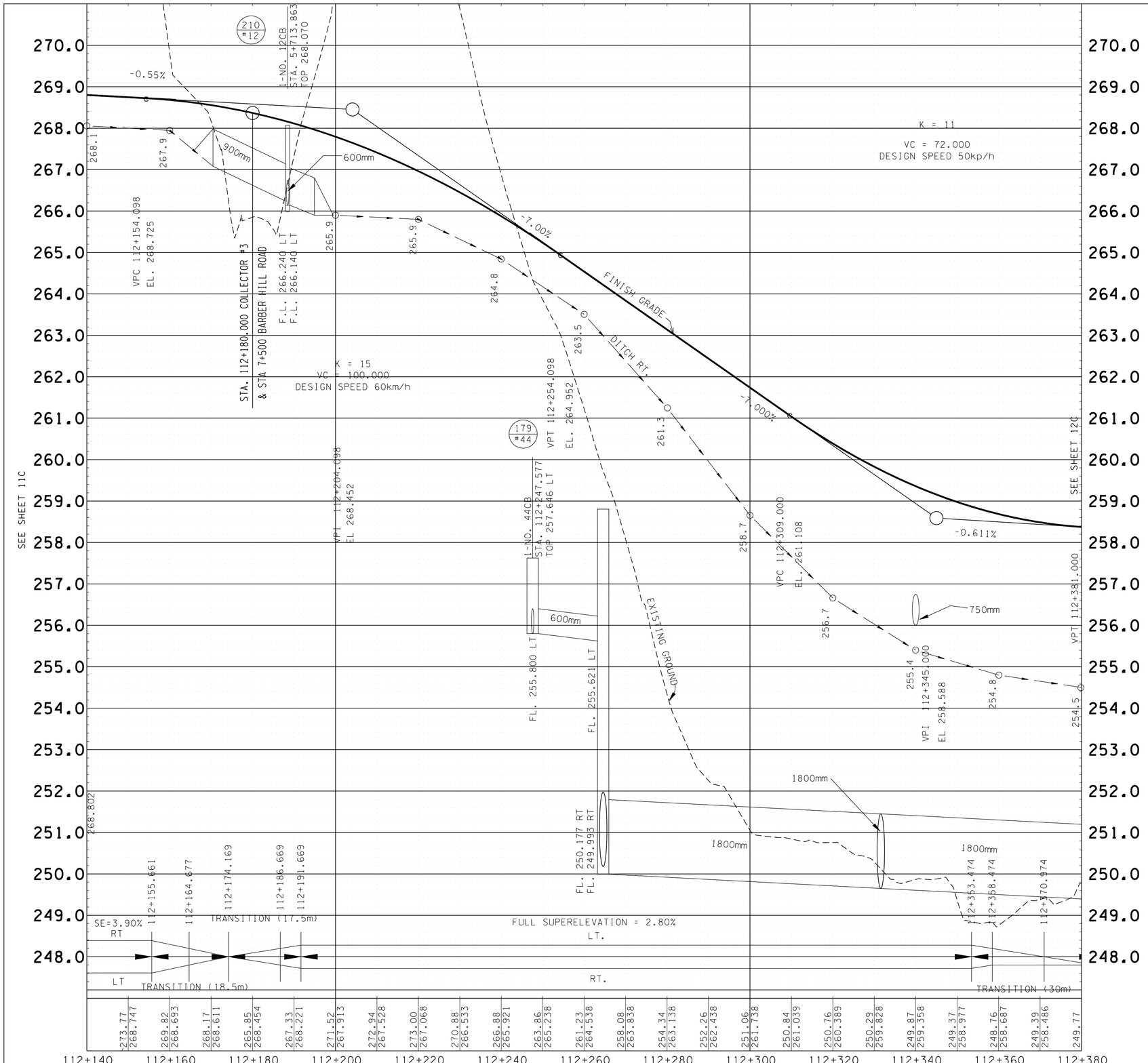
MONTLAKE DRIVE & COLLECTOR #3

STA. 8+014 TO STA 8+179.986
STA. 112+004.931 TO STA. 112+140

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	11D
CONST.	2016	47026-3279-14	11D

REV. 04-13-2001: REVISED PROFILE COLLECTOR #3 FROM STA. 112+065.368 TO STA. 112+350.
REV. 28-FEB-2003: REVISED PROFILE COLLECTOR NO.3 TO REFLECT NEW ALIGNMENT.
REV. 22-AUG-2014: UPDATED DITCH PROFILES AND 900 MM PIPE.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

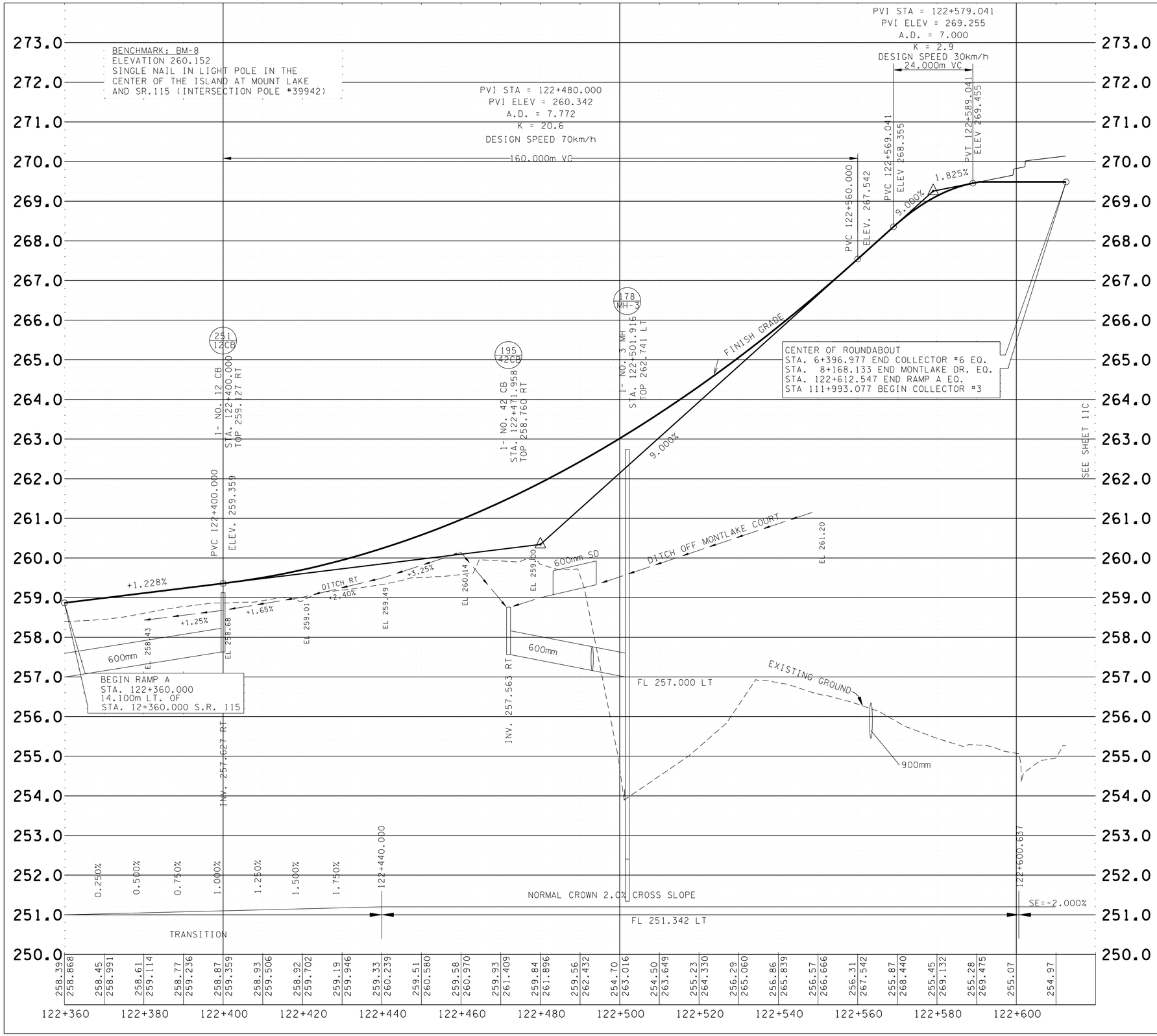
PROPOSED PROFILE
COLLECTOR #3

STA. 112+140
STA. 112+380

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	11E
CONST.	2016	47026-3279-14	11E

REV. 28-FEB-2003: CHANGED ALIGNMENT NAME FROM COLLECTOR NO.4 TO RAMP A. TERMINATED RAMP A AT MONTLAKE DR. REVISED VERTICAL ALIGNMENT.
REV. 7-NOV-2014: REVISED PROFILE.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

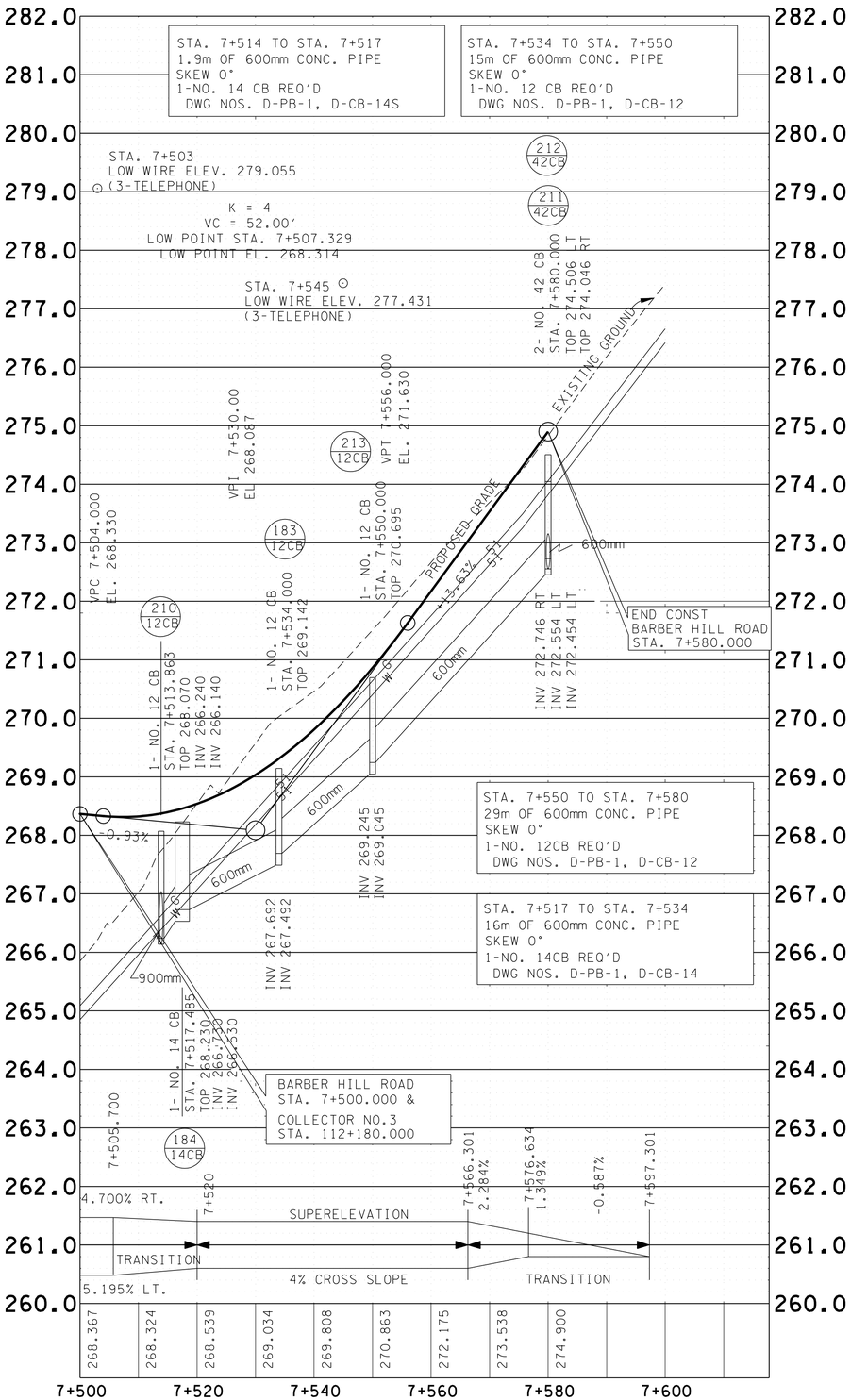
PROPOSED PROFILE
RAMP A

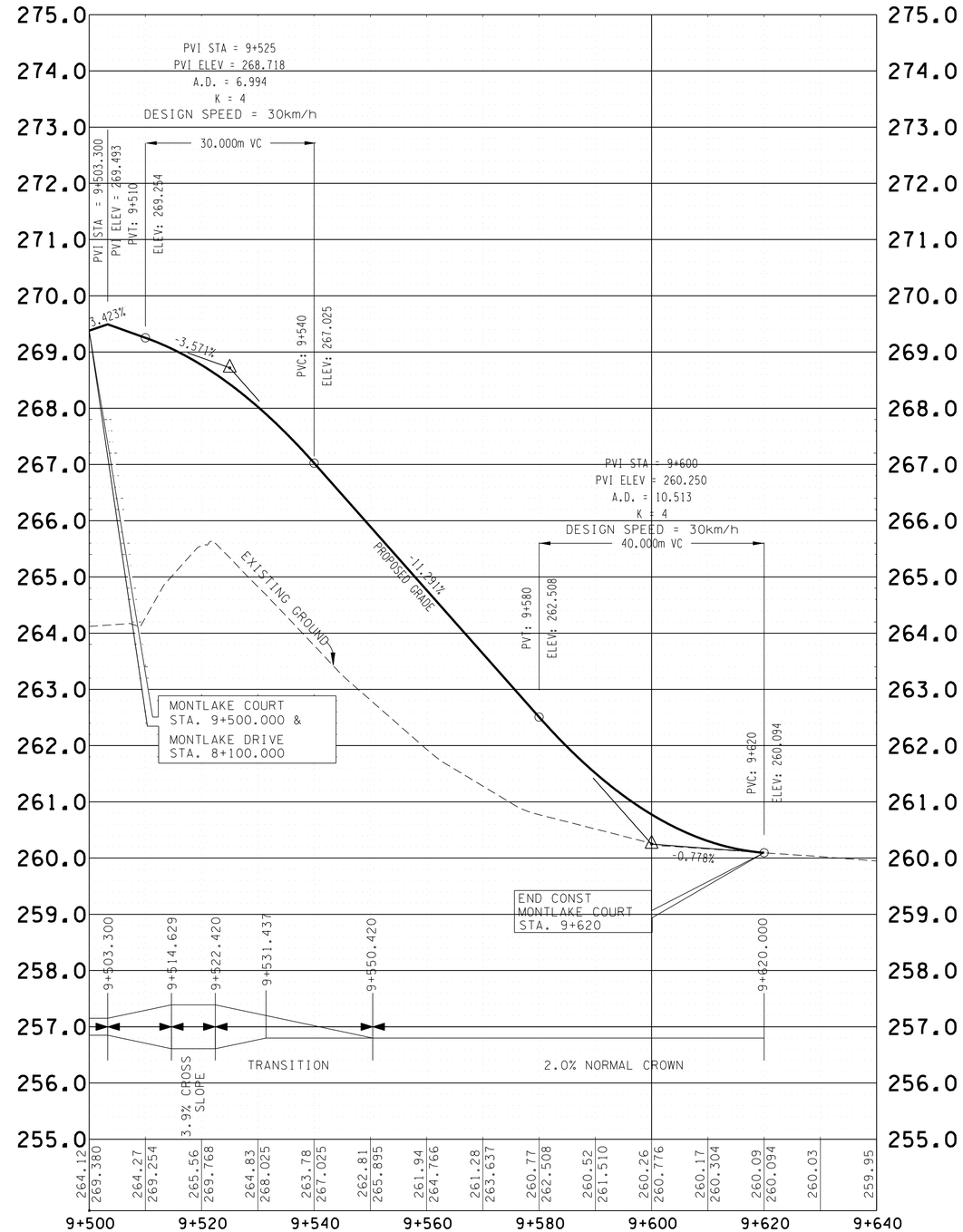
STA. 122+360.000
STA. 122+612.547

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	11F
CONST.	2016	47026-3279-14	11F

REV. 04-13-2001: REVISED PROFILES OF BARBER HILL ROAD & MONTLAKE COURT.
REV. 28-FEB-2003: REVISED PROFILES TO REFLECT NEW ALIGNMENTS.
REV. 22-AUG.-2014: REVISED PROFILE ON BARBER HILL ROAD AT INTERSECTION OF BARBER HILL AND COLLECTOR NO. 3.

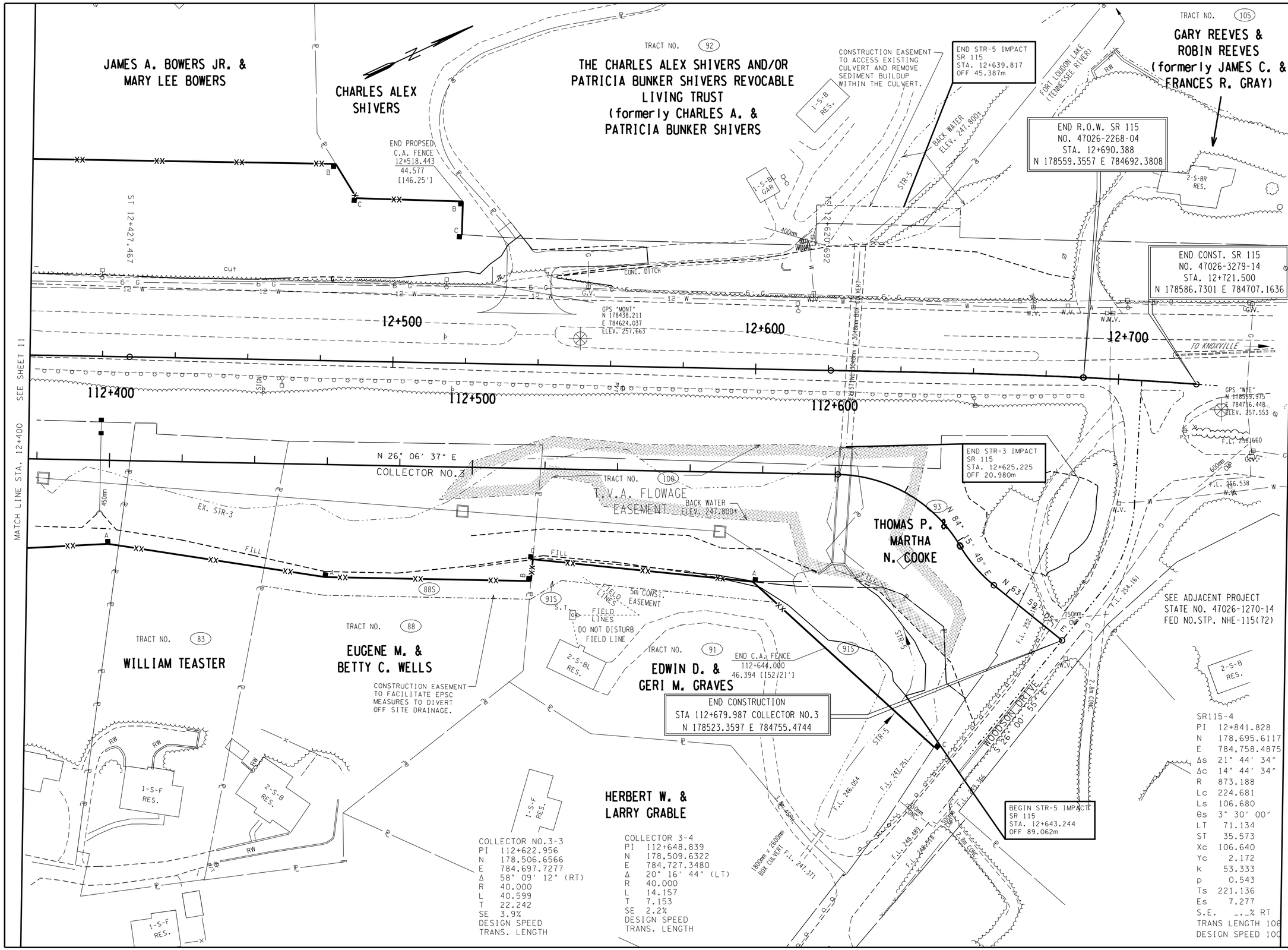




COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
BARBER HILL DR.
STA. 7+500 TO STA. 7+580
MONTLAKE COURT
STA. 9+500 TO STA. 9+620
SCALE HORIZ. 1:500
VERT. 1:50



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	12
CONST.	2016	47026-3279-14	12

REV. 28-FEB-2003: REVISED ALIGNMENT FOR SR115 TO FACILITATE TIE-IN WITH ADJACENT PROJECT. MODIFIED R.O.W. ACCORDINGLY.
REV. 15-MAR-2004: RESTORED TRACT 93 TO TOTAL TAKE.
REV. 24-SEP-2004: REVISED PROP R.O.W. TRACT 91. ADDED T.V.A. FLOWAGE EASEMENT TRACT #100. ADDED RETAINING WALL STA 12+600±.
REV. 22-AUG.-2014: REVISED SLOPE LIMITS, ROW, EASEMENT LIMITS AND CENTERLINE COLLECTOR NO. 3.
REV. 7-NOV.-2014: ADDED TRACTS 88S 91S, 92 AND 105. REVISED TRACT 100
REV-24-APR-2014: TRACTS 88, 89, 91, 93 AND 100 HATCHED T.V.A. FLOWAGE EASEMENT.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

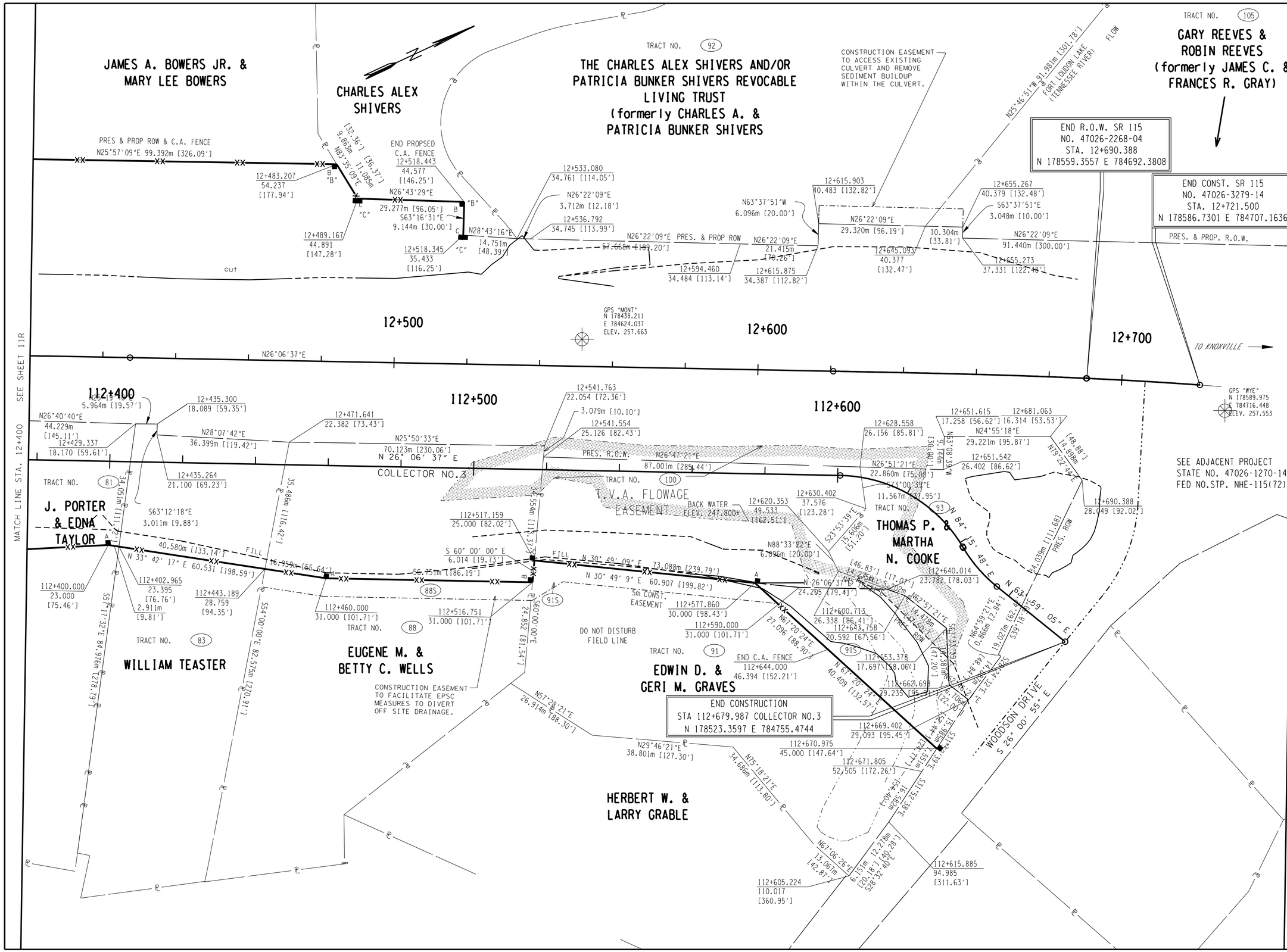
PRESENT LAYOUT

STA.12+400 - STA.12+690.388
STA.112+140 - STA.112+682.847

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	12R
CONST.	2016	47026-3279-14	12R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 7-NOV.-2014: ADDED TRACTS 88S 91S, 92 AND 105. REVISED TRACT 100



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

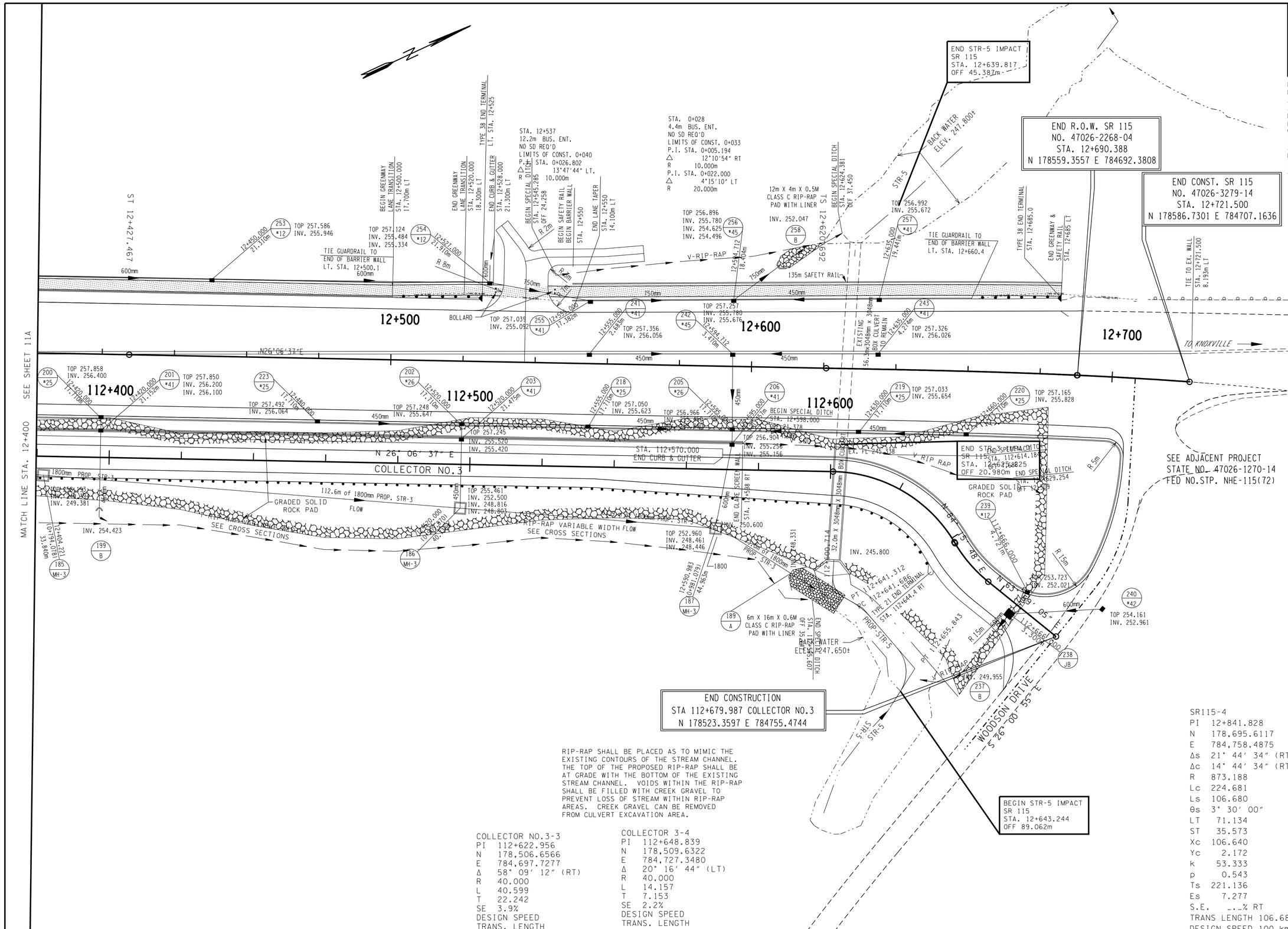
RIGHT-OF-WAY DETAILS

STA.12+400 - STA.12+690.388
STA.112+140 - STA.112+682.847

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	12A
CONST.	2016	47026-3279-14	12A

REV. 28-FEB-2003: REVISED ALIGNMENT FOR SR115 TO FACILITATE TIE-IN WITH ADJACENT PROJECT. MODIFIED DRAINAGE ACCORDINGLY.
REV. 24-SEP-2004: REVISED SPECIAL DITCH RT. AND ADDED RETAINING WALLS STA. 12+600± RT. REVISED IMPACT ATTENUATOR LT. STA. 12+520 AT GREENWAY.
REV. 22-AUG.-2014: REVISED INTERSECTION TO WOODSON DRIVE AND CENTERLINE COLLECTOR NO. 3.



RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

COLLECTOR NO.3-3
PI 112+622.956
N 178,506.6566
E 784,697.7277
Δ 58° 09′ 12″ (RT)
R 40.000
L 40.599
T 22.242
SE 3.9%
DESIGN SPEED
TRANS. LENGTH

COLLECTOR 3-4
PI 112+648.839
N 178,509.6322
E 784,727.3480
Δ 20° 16′ 44″ (LT)
R 40.000
L 14.157
T 7.153
SE 2.2%
DESIGN SPEED
TRANS. LENGTH

SR115-4
PI 12+841.828
N 178,695.6117
E 784,758.4875
Δs 21° 44′ 34″ (RT)
Δc 14° 44′ 34″ (RT)
R 873.188
Lc 224.681
Ls 106.680
θs 3° 30′ 00″
LT 71.134
ST 35.573
Xc 106.640
Yc 2.172
k 53.333
p 0.543
Ts 221.136
Es 7.277
S.E. _._% RT
TRANS LENGTH 106.680
DESIGN SPEED 100 km/h

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

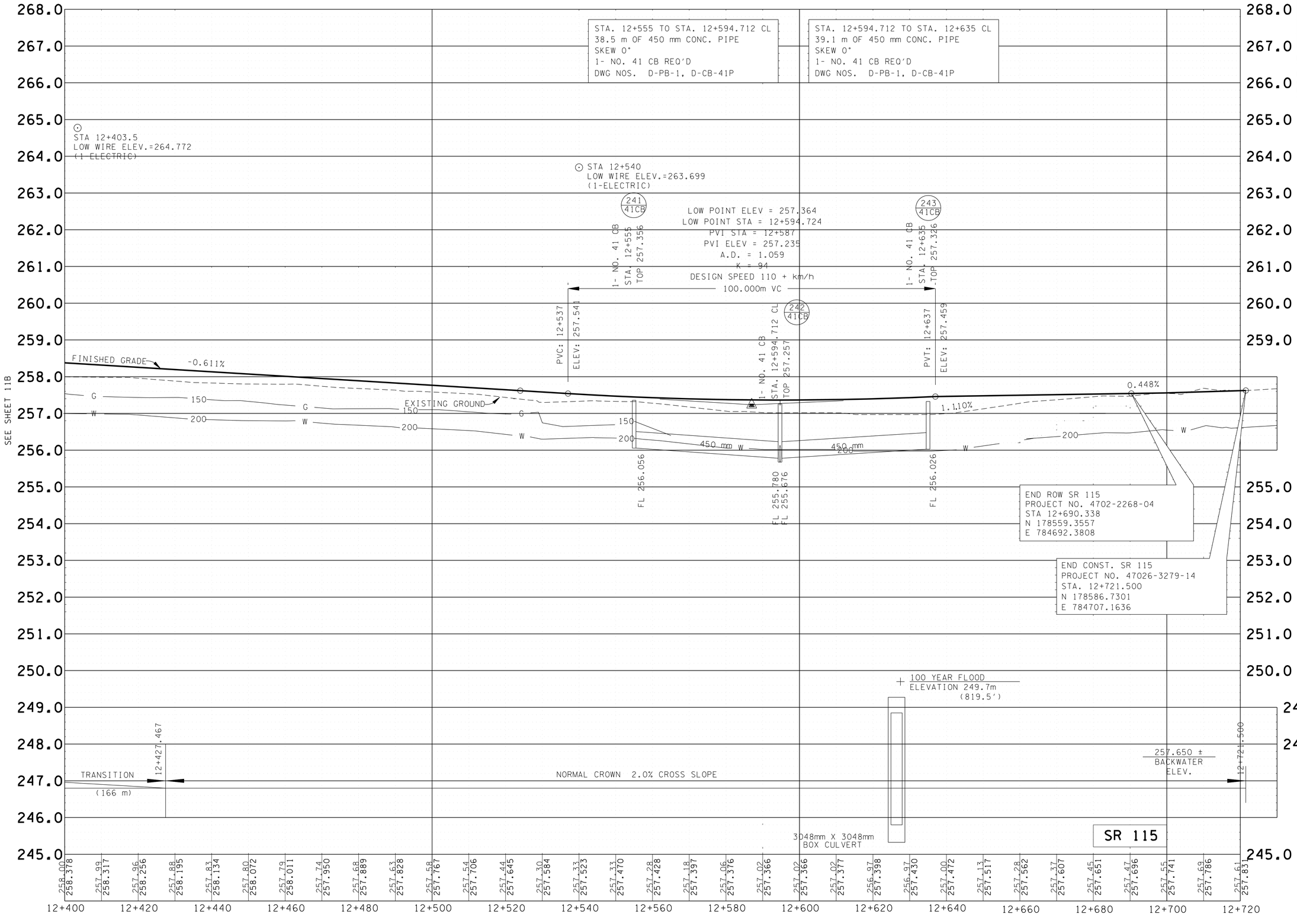
PROPOSED LAYOUT

STA.12+400 - STA.12+690.388
STA.112+140 - STA.112+682.847

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	12B
CONST.	2016	47206-3279-14	12B

REV. 28-FEB-2003: REVISED PROFILE TO REFLECT NEW LOCATION.
REV. 24-SEP-2004: REVISED GRADE OF SPECIAL DITCH RT. AND ADDED RETAINING WALLS STA. 12+591± TO STA. 12+614± RT.



METRIC

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

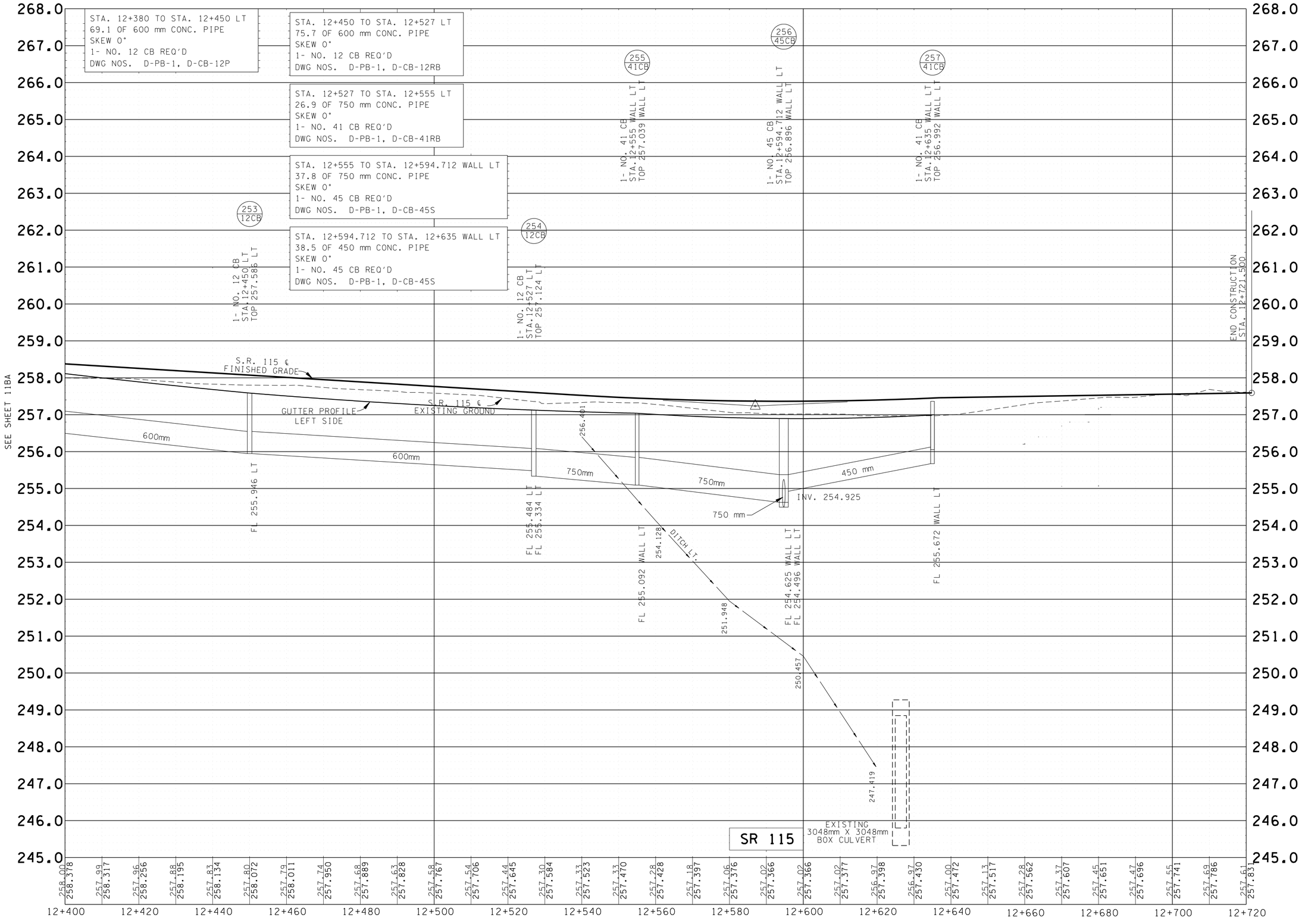
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
STATE ROUTE 115 C.L.

STA. 12+400
STA. 12+720

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	12BA



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

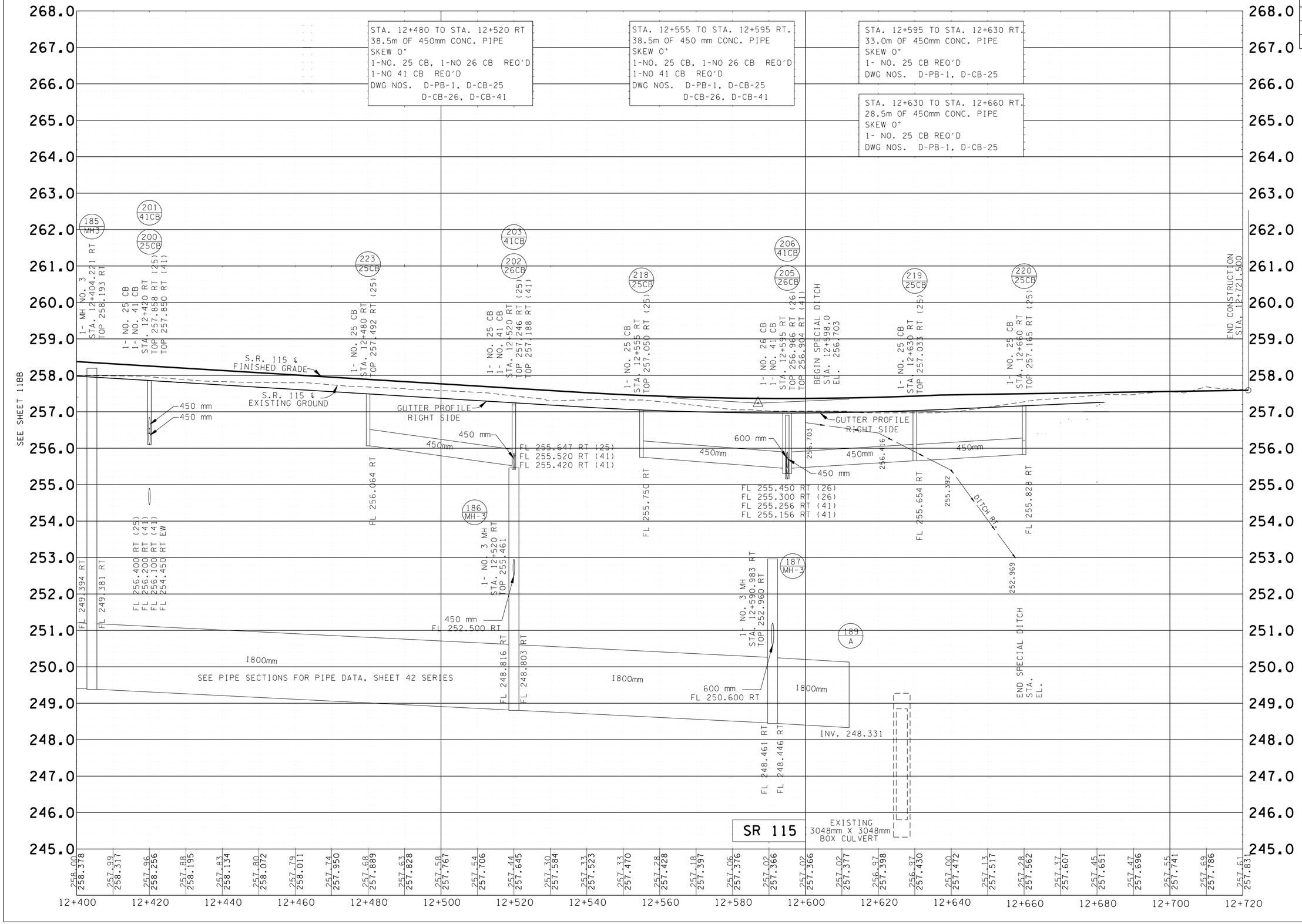
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 LEFT

STA. 12+400
STA. 12+720

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47206-3279-14	12BB



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

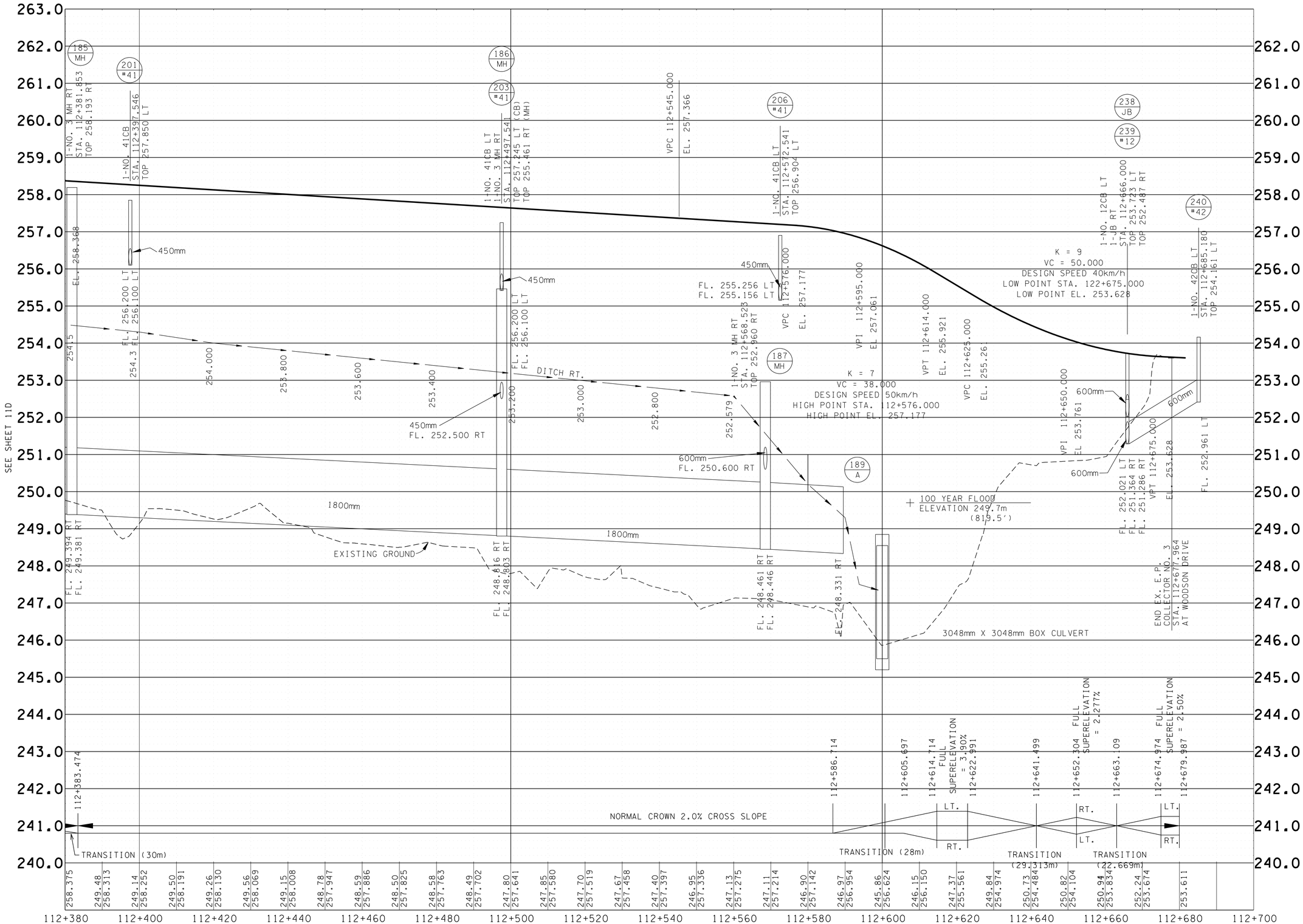
PROPOSED STORM DRAIN PROFILE
STATE ROUTE 115 RIGHT

STA. 12+400
STA. 12+720

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	12C
CONST.	2016	47026-3279-14	12C

REV. 28-FEB-2003: REVISED PROFILE COLLECTOR NO.3 TO REFLECT NEW ALIGNMENT.
REV. 24-SEP-2004: REVISED GRADE OF SPECIAL DITCH RT. AND ADDED RETAINING WALLS STA. 112+568± TO STA. 112+592± RT.
REV. 22-AUG-2014: REVISED PROFILE OF COLLECTOR 3AT INTERSECTION WITH WOODSON DRIVE.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

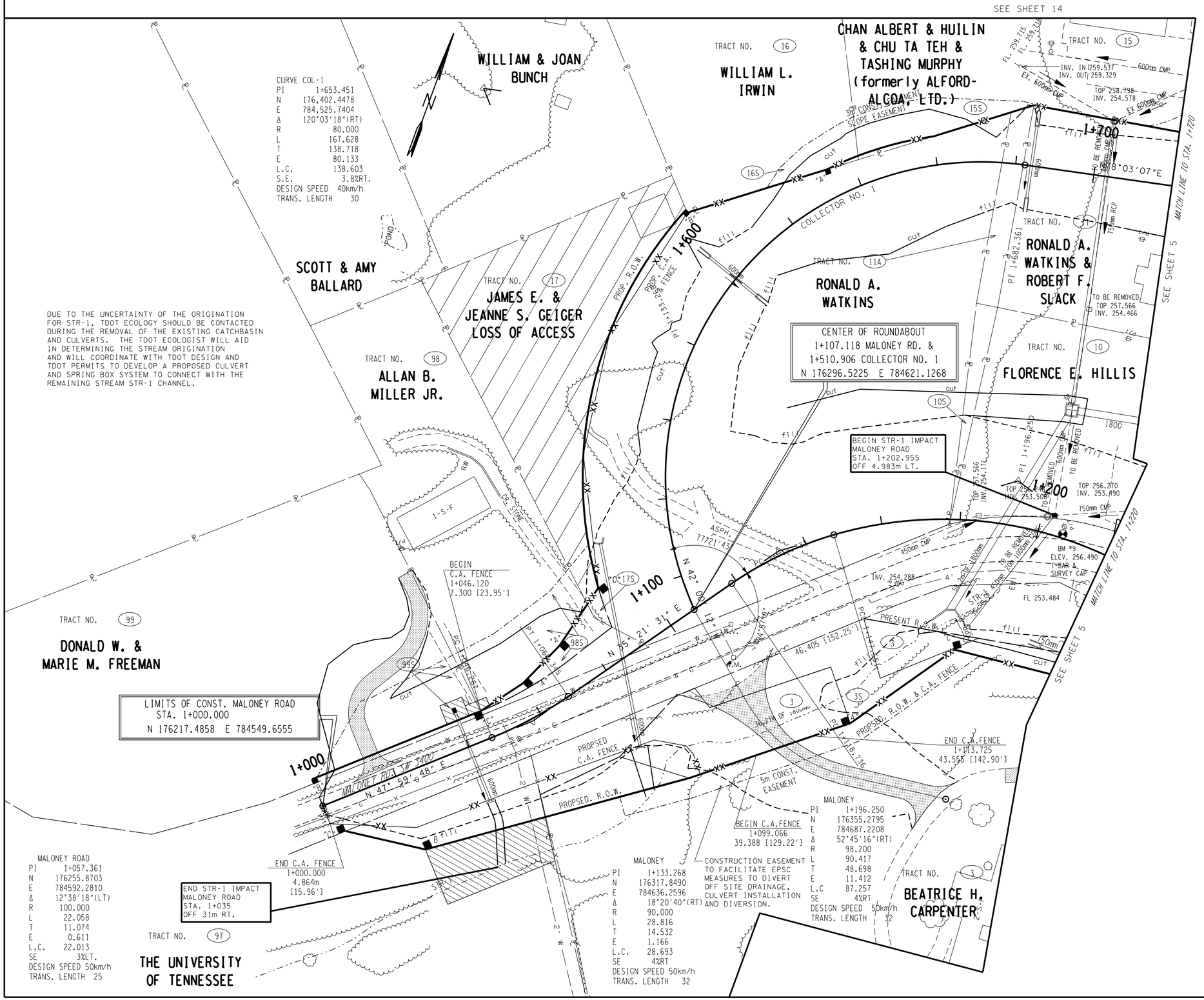
PROPOSED PROFILE
COLLECTOR #3

STA. 112+380
STA. 112+683.5

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	13
CONST.	2016	47026-3279-14	13

REV. 03-01-2002 REVISED ROW DRAINAGE, SLOPE AND CONST EASEMENTS TRACTS 17 & 98. REMOVED DRIVEWAY TRACT 17, AND MODIFIED DRIVEWAY TRACT 98. PROVIDED A 15m OPENING IN C.A. FENCE AT TRACT 3.
REV. 28-FEB-2003: ADDED DRIVEWAY STA. 1+080 & PIPE. REVISED DRAINAGE EASEMENT.
REV. 15-MAR-2003: ADDED PROP DRIVEWAY STA 1+030 LT.
REV. 22-AUG.-2014: REVISED ALIGNMENT AND GRADE ON MALONEY ROAD. ADDED ROUNDABOUT ON MALONEY ROAD WITH COLLECTOR NO.1. REVISED SLOPE, EASEMENTS AND ROW LIMITS. MOVED TWO DRIVEWAYS AND PIPES.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMEMT. ADDED TRACTS 3S, 15S, 16S, 17S, 98S AND 99S. REVISED PROPOSED R.O.W. AND EASEMENTS TRACT 97.
REV. 16-JAN.-2015: TRACT 3 DENOTED RIGHT OF WAY LINE BETWEEN STA.1+060.000 AND 1+081.807 AS CONTROLLED ACCESS.
REV. 24-APR-2015: TRACT 98S, ADDED CONSTRUCTION EASEMENT FOR REMOVAL OF STRUCTURES.
REV. 17-SEP-2015: ADDED DRIVEWAY TO TRACTS 98 & 99. REMOVED LOSS OF ACCESS AND CONSTRUCTION EASEMENT FOR REMOVAL OF STRUCTURES TRACT 98S.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

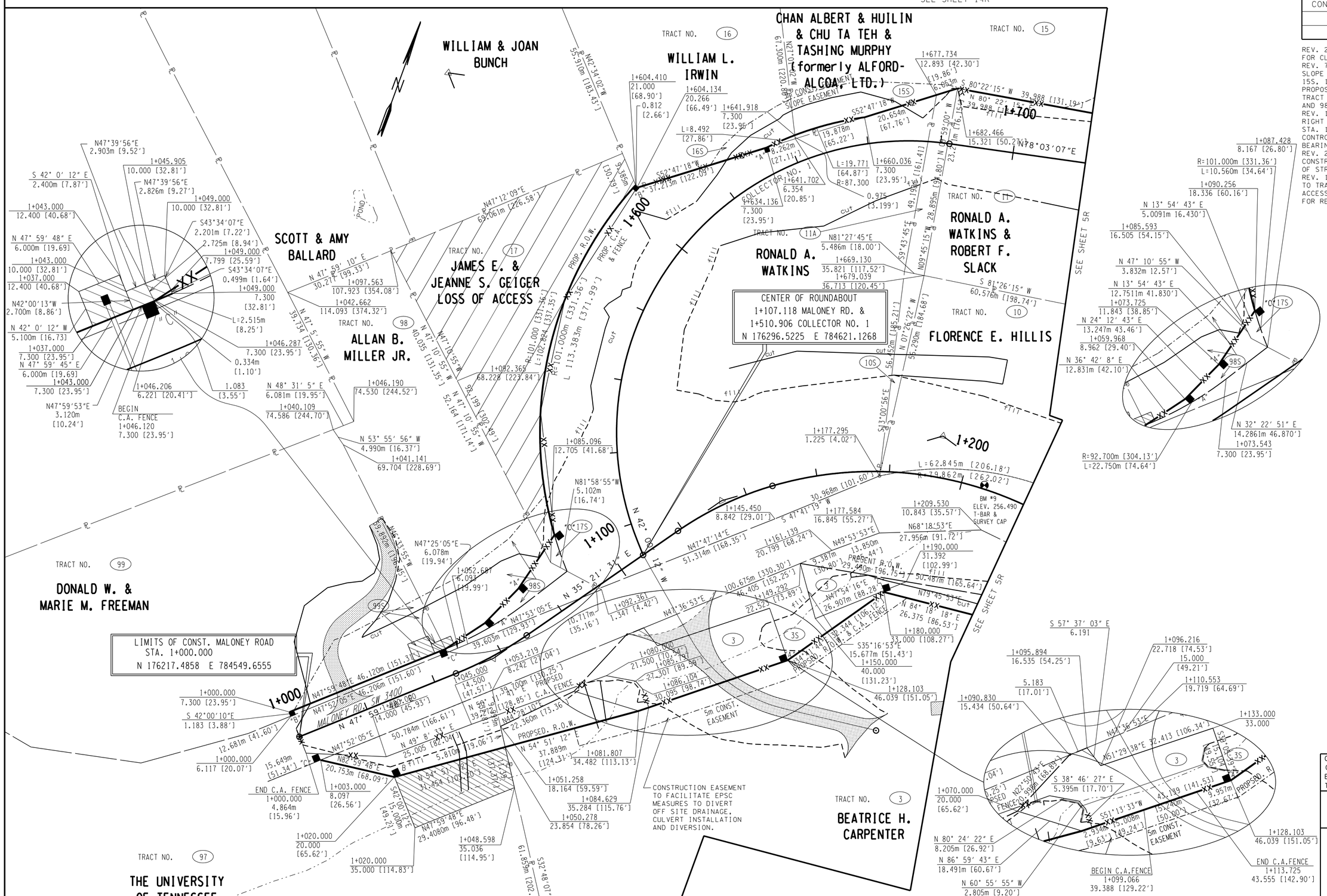
STA.1+000 - STA. 1+220
STA.1+500 - STA. 1+720

SCALE: 1:500

METRIC

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	13R
CONST.	2016	47026-3279-14	13R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 7-NOV.-2014: ADDED PREVIOUS SLOPE EASEMEMT. ADDED TRACTS 3S, 15S, 16S, 17S, 98S AND 99S. REVISED PROPOSED R.O.W. AND EASEMENTS TRACT 97. ADDED DETAIL TRACTS 17S AND 98S
REV. 16-JAN.-2015: TRACT 3 DENOTED RIGHT OF WAY LINE BETWEEN STA. 1+060.000 AND 1+081.807 AS CONTROLLED ACCESS. LABELED BEARINGS AND DISTANCES TRACT 98S.
REV. 24-APR-2015: TRACT 98S, ADDED CONSTRUCTION EASEMENT FOR REMOVAL OF STRUCTURES.
REV. 17-SEP-2015: ADDED DRIVEWAY TO TRACTS 98 & 99. REMOVED LOSS OF ACCESS AND CONSTRUCTION EASEMENT FOR REMOVAL OF STRUCTURES TRACT 98S.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

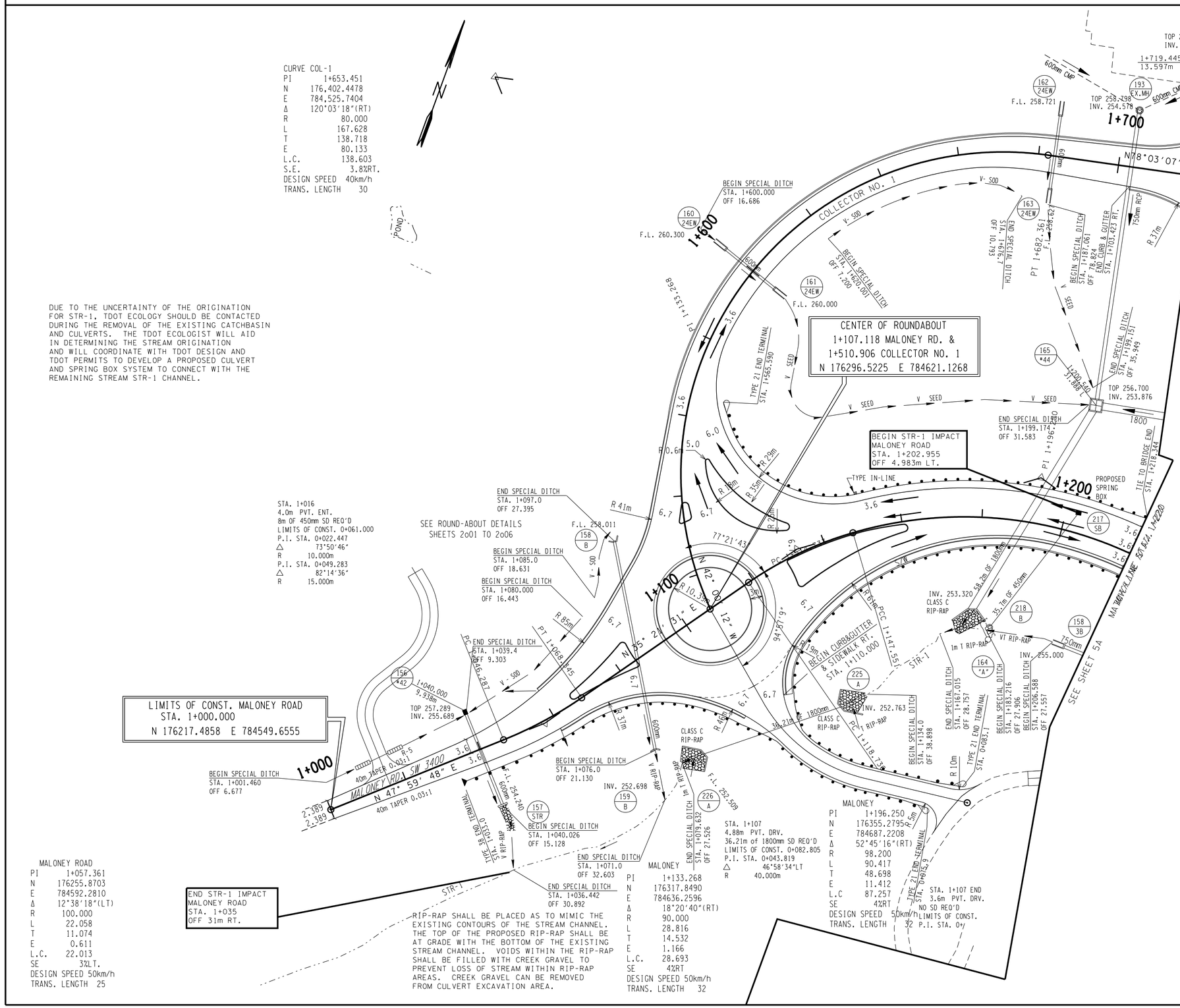
RIGHT-OF-WAY DETAILS

STA.1+000 - STA. 1+220
STA.1+500 - STA. 1+720

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	13A
CONST.	2016	47026-3279-14	13A

REV. 03-01-2002: REMOVED DRIVEWAY TRACT 17, AND MODIFIED DRIVEWAY TRACT 98.
REV. 28-FEB-2003: ADDED DRIVEWAY STA. 1+080 & PIPE.
REV. 15-MAR-2003: ADDED PROP DRIVEWAY STA 1+030 LT.
REV. 22-AUG.-2014: REVISED ALIGNMENT AND GRADE ON MALONEY ROAD. ADDED ROUNDABOUT AT INTERSECTION OF MALONEY AND COLLECTOR NUMBER 1.
REV. 17-SEP-2015: ADDED DRIVEWAY TO TRACTS 98 & 99.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

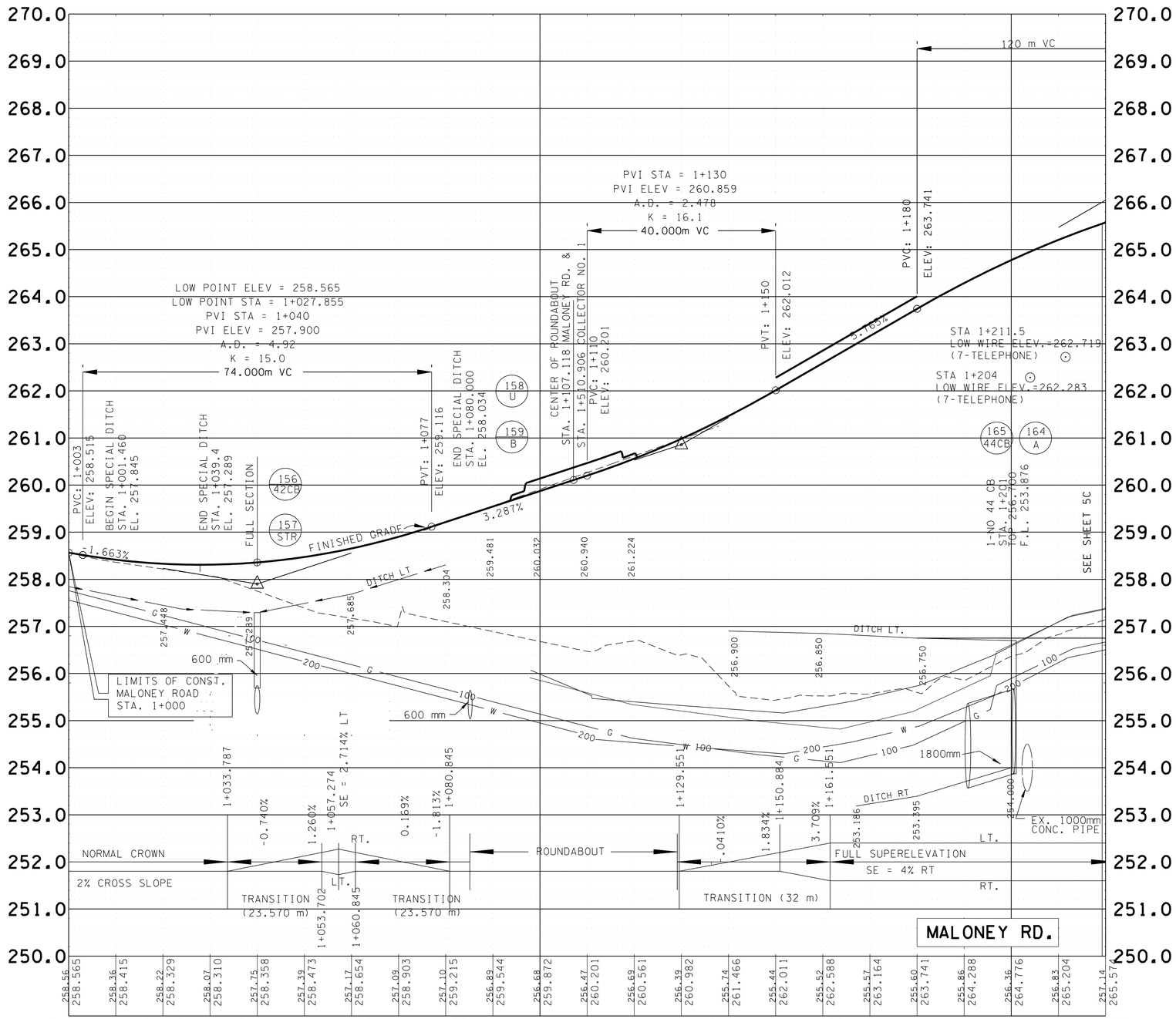
PROPOSED LAYOUT

STA.1+000 - STA. 1+220
STA.1+512.857 - STA.1+720

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	13B
CONST.	2016	47026-3279-14	13B

REV. 28-FEB-2003: ADDED DITCH & SIDE DRAIN STA. 1+080 LT.
REV. 22-AUG.-2014: REVISED PROFILE OF MALONEY ROAD TO INTERSECTION WITH THE ROUNDABOUT.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
MALONEY ROAD

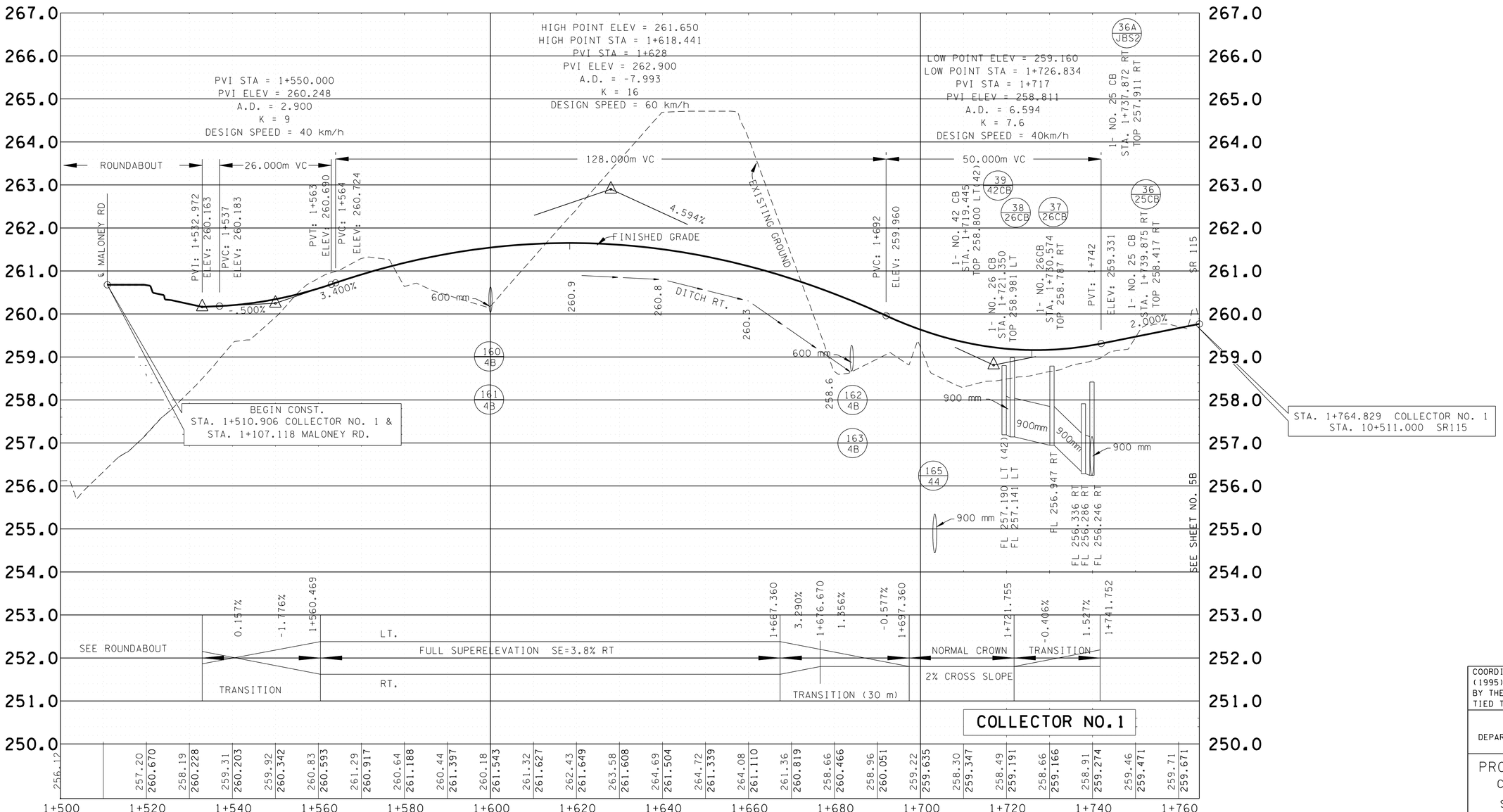
STA. 1+000
STA. 1+220

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	13C
CONST.	2016	47026-3279-14	13C

REV. 28-FEB-2003: ADDED DITCH RT.
REV. 22-AUG.-2014: REVISED PROFILE OF COLLECTOR NUMBER 1.

STA. 1+719 LT. TO 1+740 RT.
58.5 m OF 900 mm CONC. PIPE
SKEW 72°
2- NO. 26 & 1-NO. 42 CB REQ'D
DWG NOS. D-PB-1,D-CB-26RB,
D-CB-42S



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE
COLLECTOR NO. 1

STA. 1+512.857 -
STA. 1+764.829

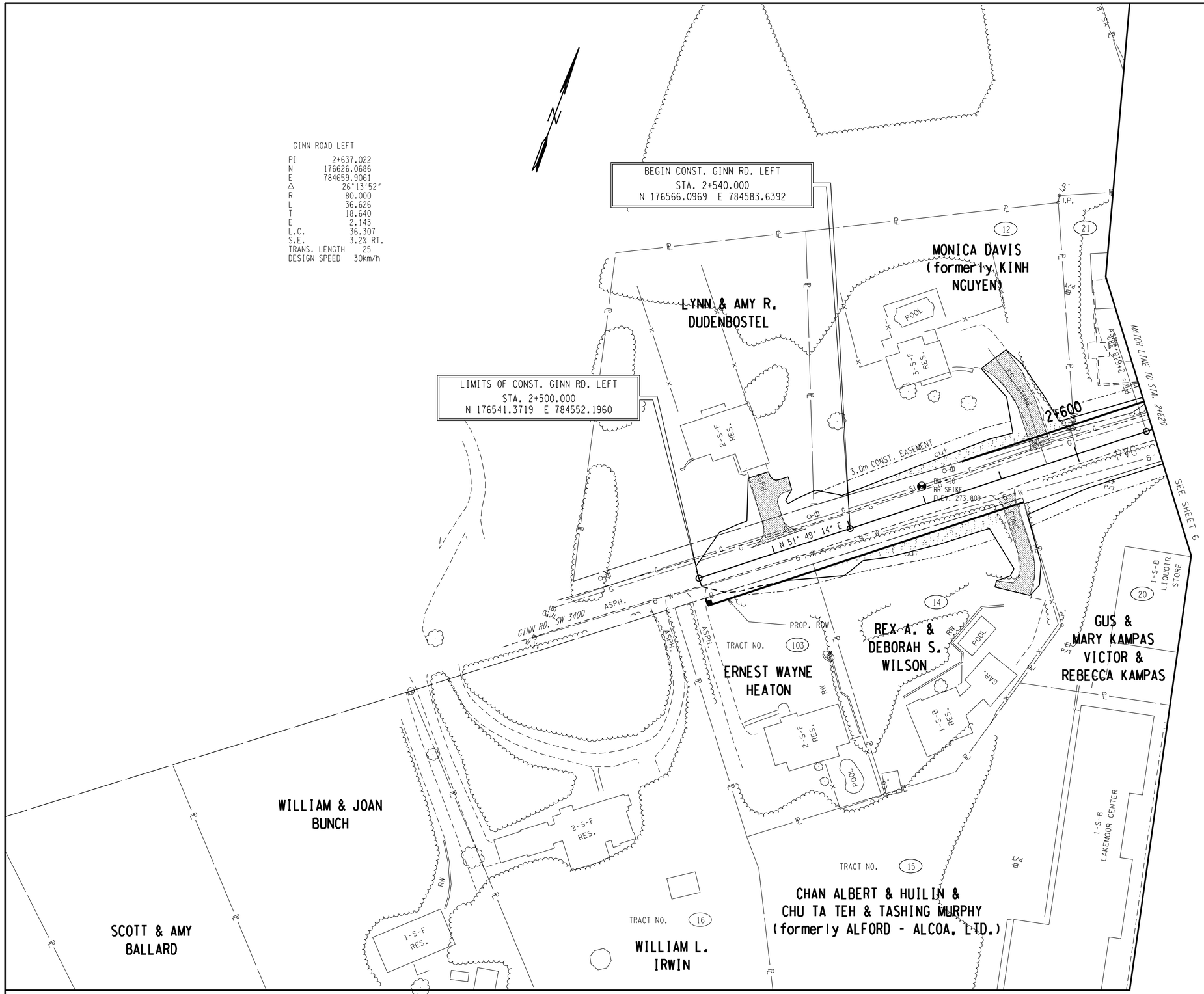
SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	14
CONST.	2016	47026-3279-14	14

REV. 22-AUG-2014 TURNED OFF BEARINGS AND DISTANCES.

GINN ROAD LEFT

PI	2+637.022
N	176626.0686
E	784659.9061
Δ	26°13'52"
R	80.000
L	36.626
T	18.640
E	2.143
L.C.	36.307
S.E.	3.2% RT.
TRANS. LENGTH	25
DESIGN SPEED	30km/h



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

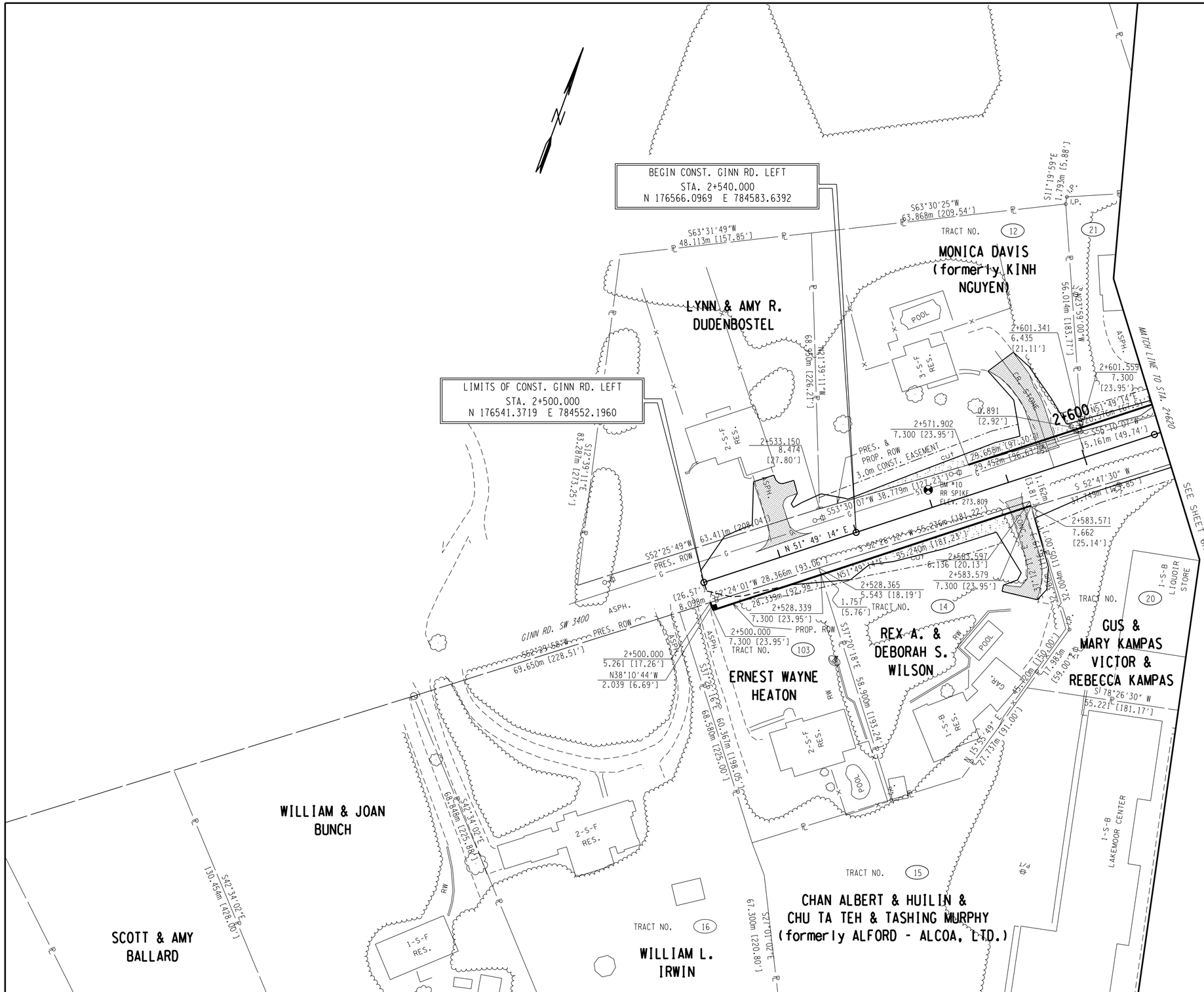
PRESENT LAYOUT

STA. 2+500 - STA. 2+620

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	14R
CONST.	2016	47026-3279-14	14R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS

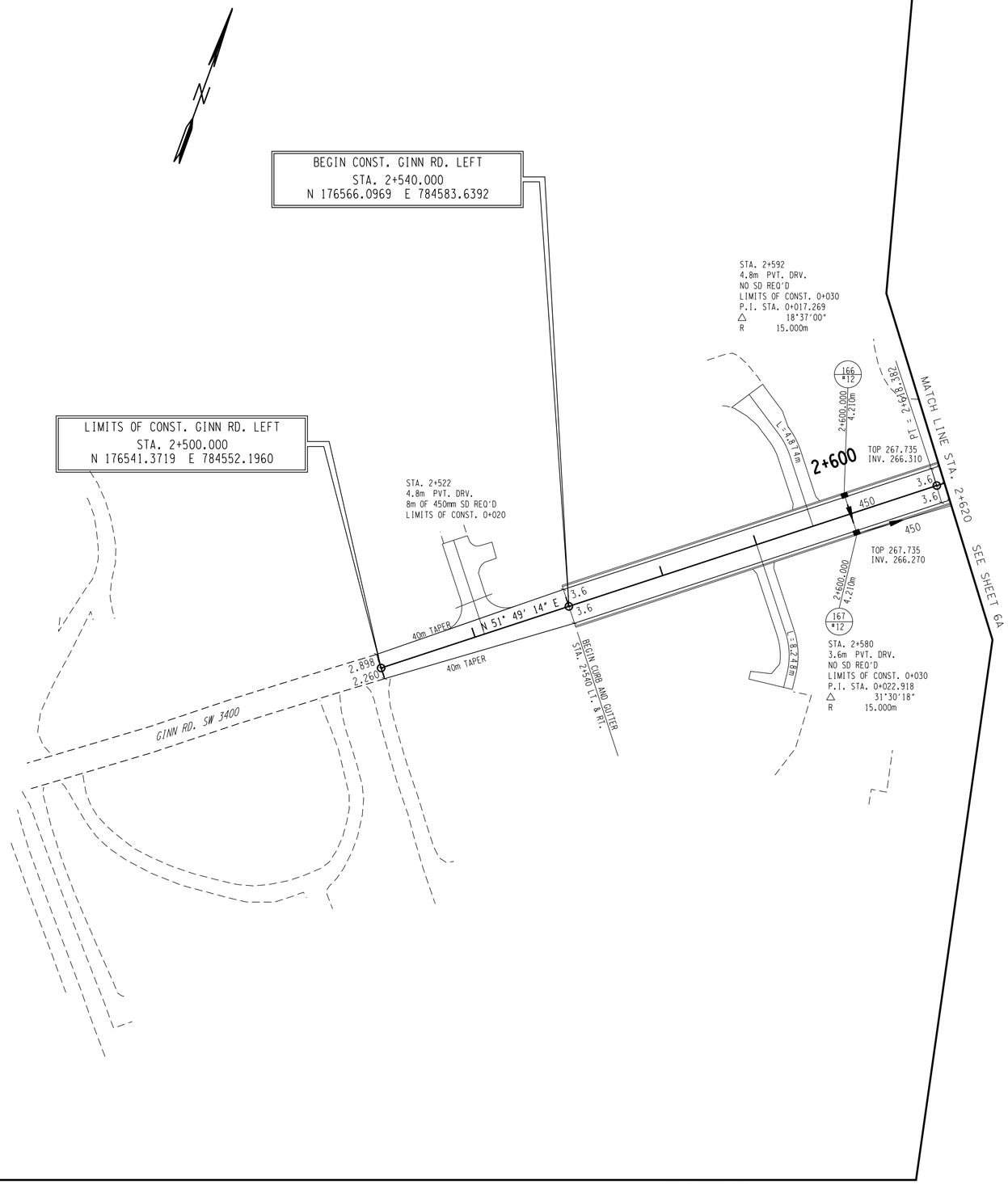
STA. 2+500 - STA. 2+620

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	14A
CONST.	2016	47026-3279-14	14A

GINN ROAD LEFT

PI	2+637.022
N	176626.0686
E	784659.9061
△	26°13'52"
R	80.000
L	36.626
T	18.640
E	2.143
L.C.	36.307
S.E.	3.2% RT.
TRANS. LENGTH	25
DESIGN SPEED	30km/h



SEE SHEET 13A

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

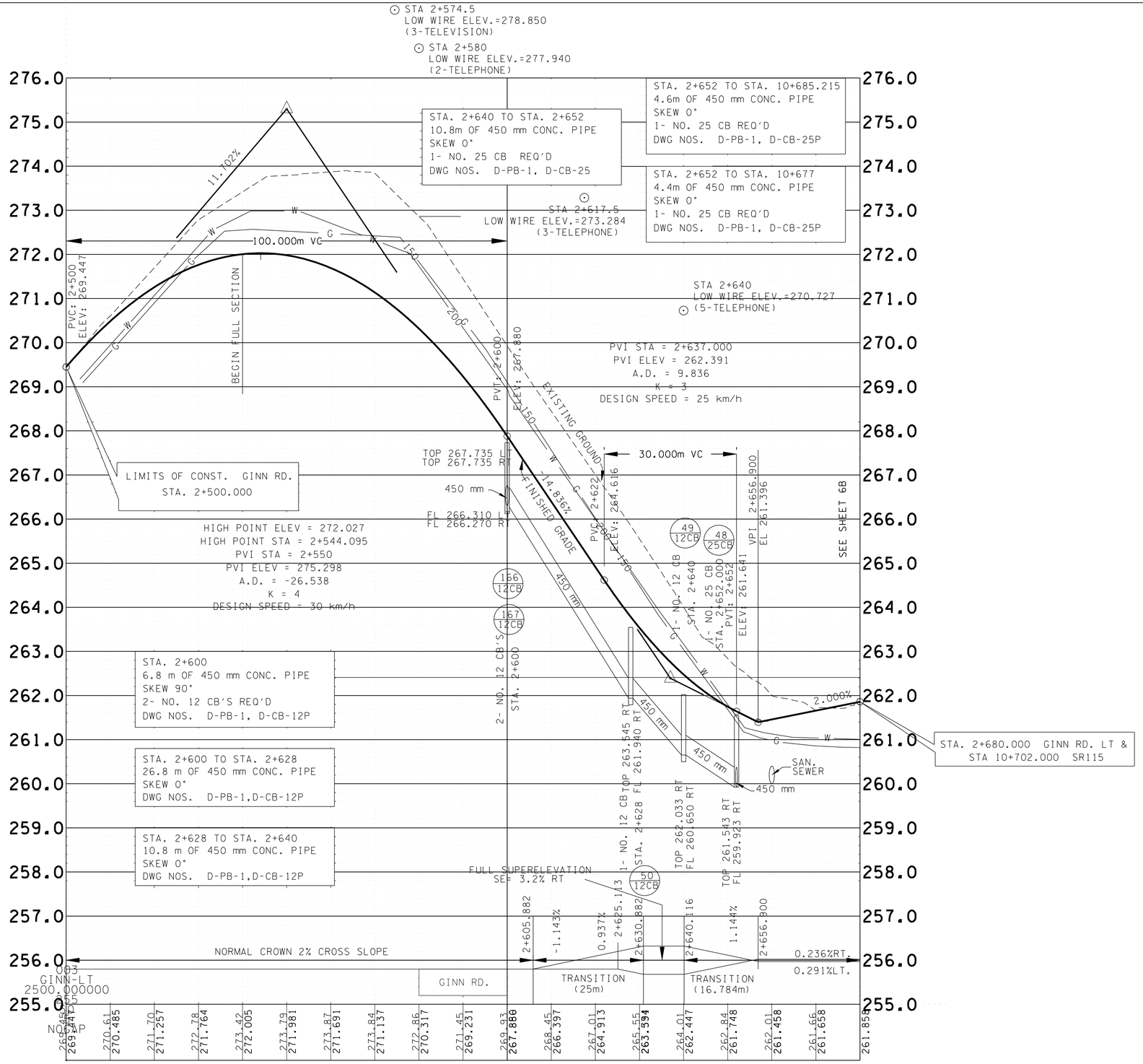
PROPOSED LAYOUT

STA. 2+500 - STA. 2+620

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	14B
CONST.	2016	47026-3279-14	14B

REV. 22-AUG.-2014: REVISED PROFILE OF GINN ROAD LT.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

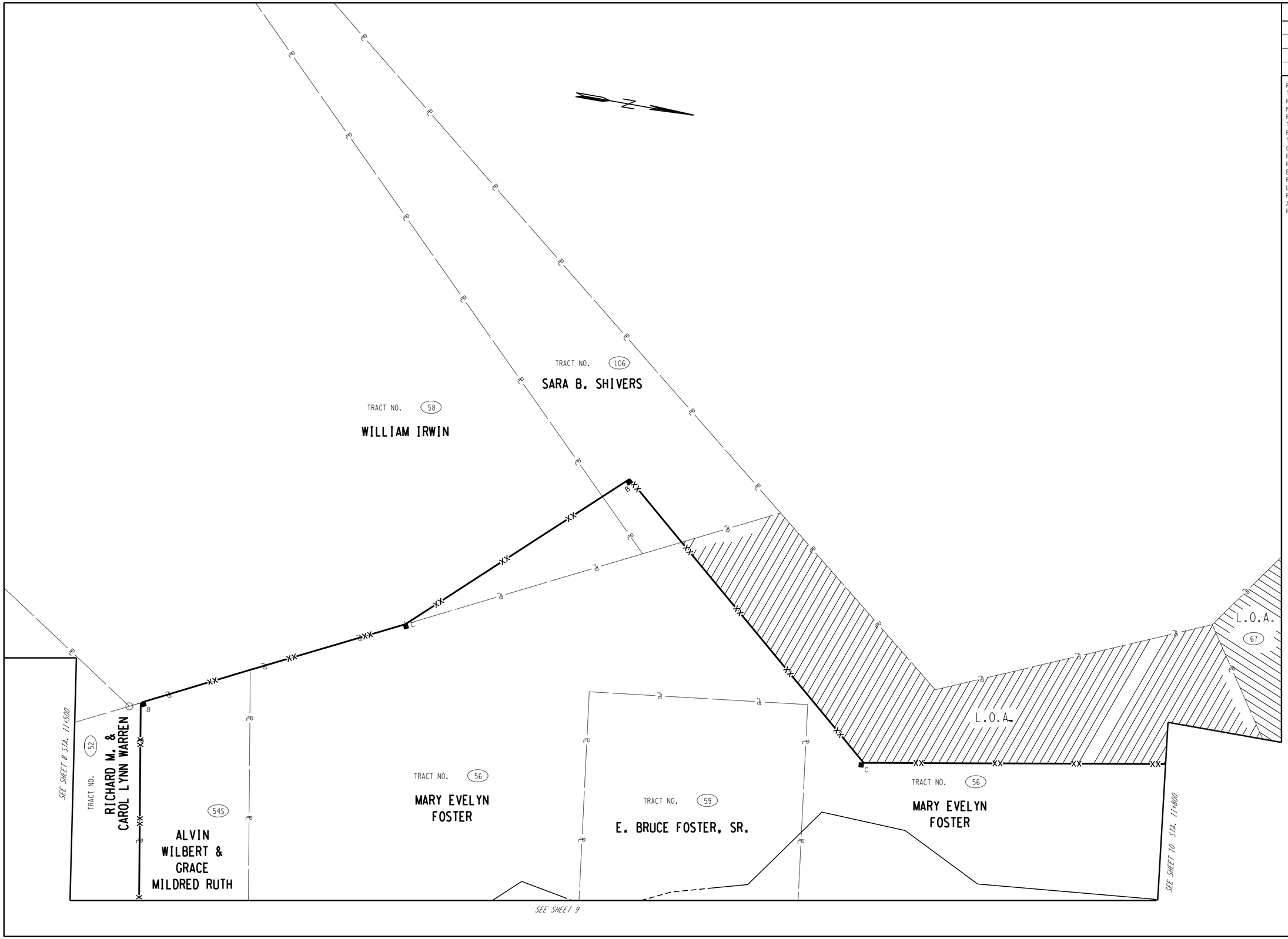
PROPOSED PROFILE
GINN RD. LT.

STA. 2+500
STA. 2+680

SCALE HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	15
CONST.	2016	47026-3279-14	15

REV. 28-FEB-2003: ADDED NEW SHEET TO ILLUSTRATE R.O.W. & SLOPE LIMITS REPLACED OLD SHEET OF COLLECTOR NO.2 & VULCAN RD.
REV. 15-MAR-2004: RENAMED TRACT 54 TO 54S. REMOVED LOSS OF ACCESS FROM TRACTS 52 AND 54S AND MADE TOTAL TAKES. REMOVED SOUTH LOSS OF ACCESS FROM TRACT 56 AND MADE PROP R.O.W.
REV. 22-AUG-2014 TURNED OFF BEARINGS AND DISTANCES.
REV. 7-NOV-2014 REVISED SLOPE LIMITS TRACTS 56 AND 59.
REV. 27-MAY-2015; ADDED TRACT 106. ADJUSTED PROPERTY LINES AND REVISED PROPOSED RIGHT-OF-WAY TRACT 58.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

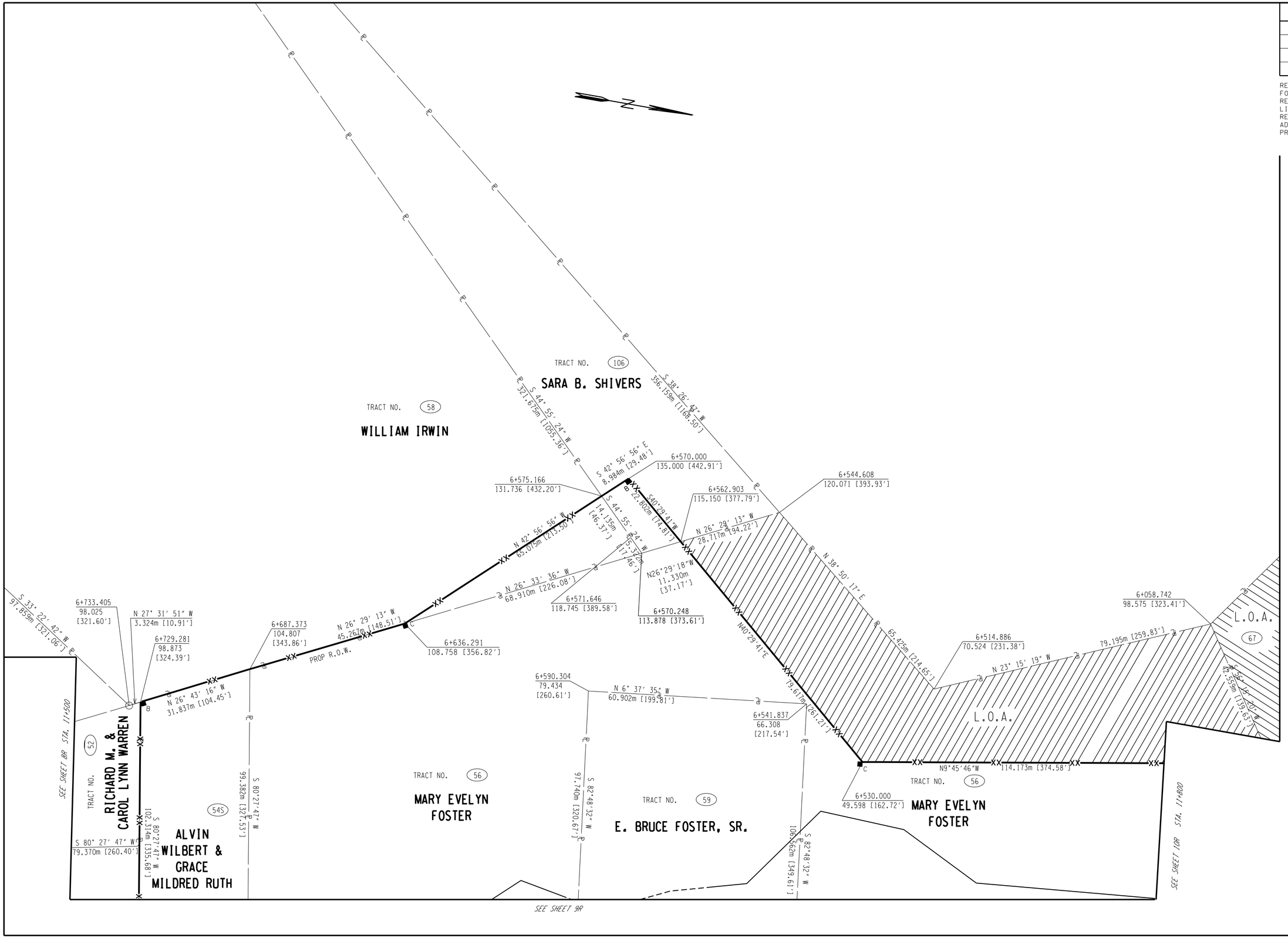
PRESENT LAYOUT

STA. 11+500 - STA. 11+800

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	15R
CONST.	2016	47026-3279-14	15R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 7-NOV-2014 REVISED SLOPE LIMITS TRACTS 56 AND 59.
REV. 27-MAY-2015: ADDED TRACT 106. ADJUSTED PROPERTY LINES AND REVISED PROPOSED RIGHT-OF-WAY TRACT 58.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

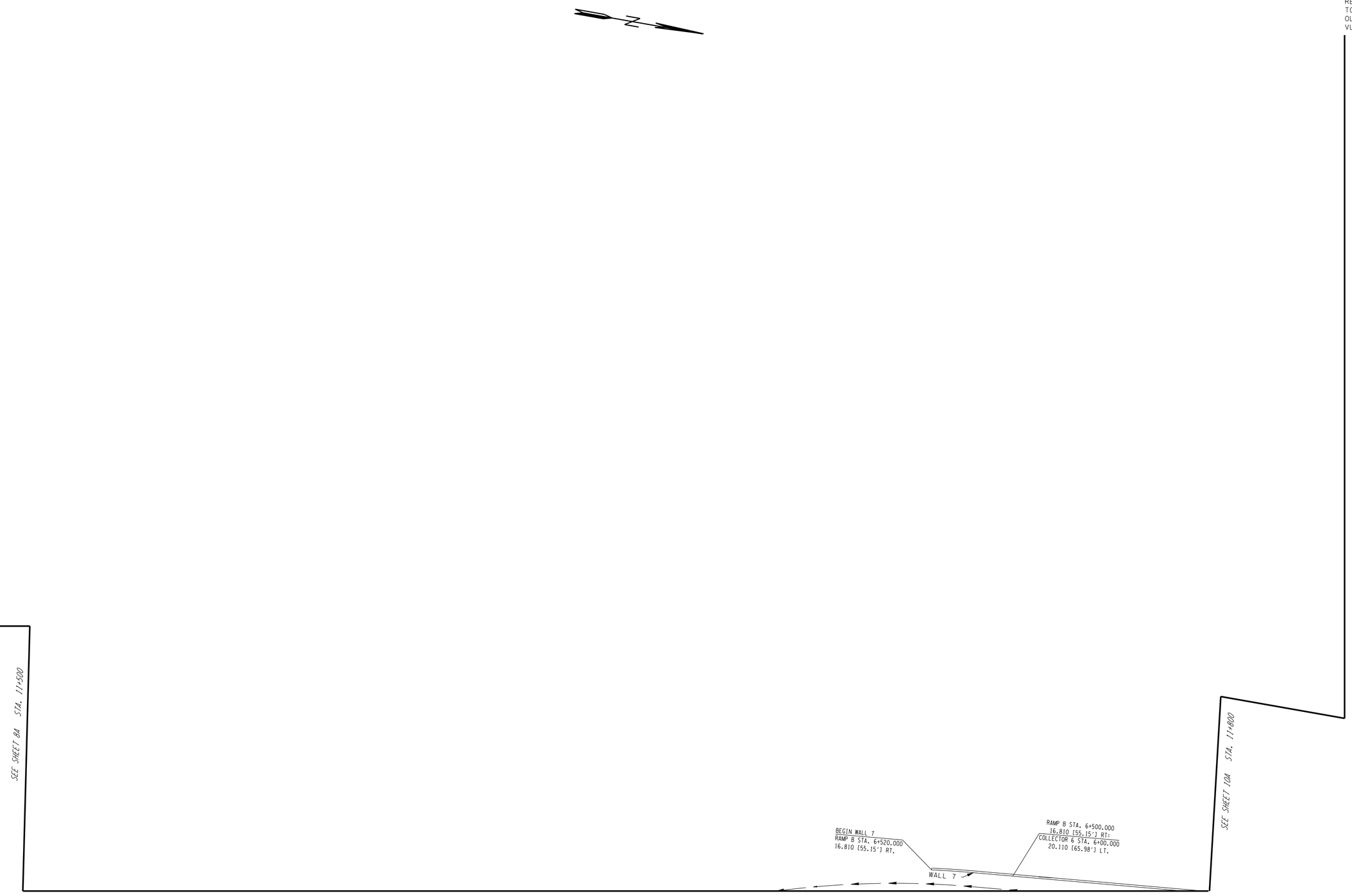
RIGHT-OF-WAY DETAILS

STA. 11+500 - STA. 11+800

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	15A
CONST.	2016	47026-3279-14	15A

REV. 28-FEB-2003: ADDED NEW SHEET TO ILLUSTRATE BENCHING. REPLACED OLD SHEET OF COLLECTOR NO.2 & VULCAN RD.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

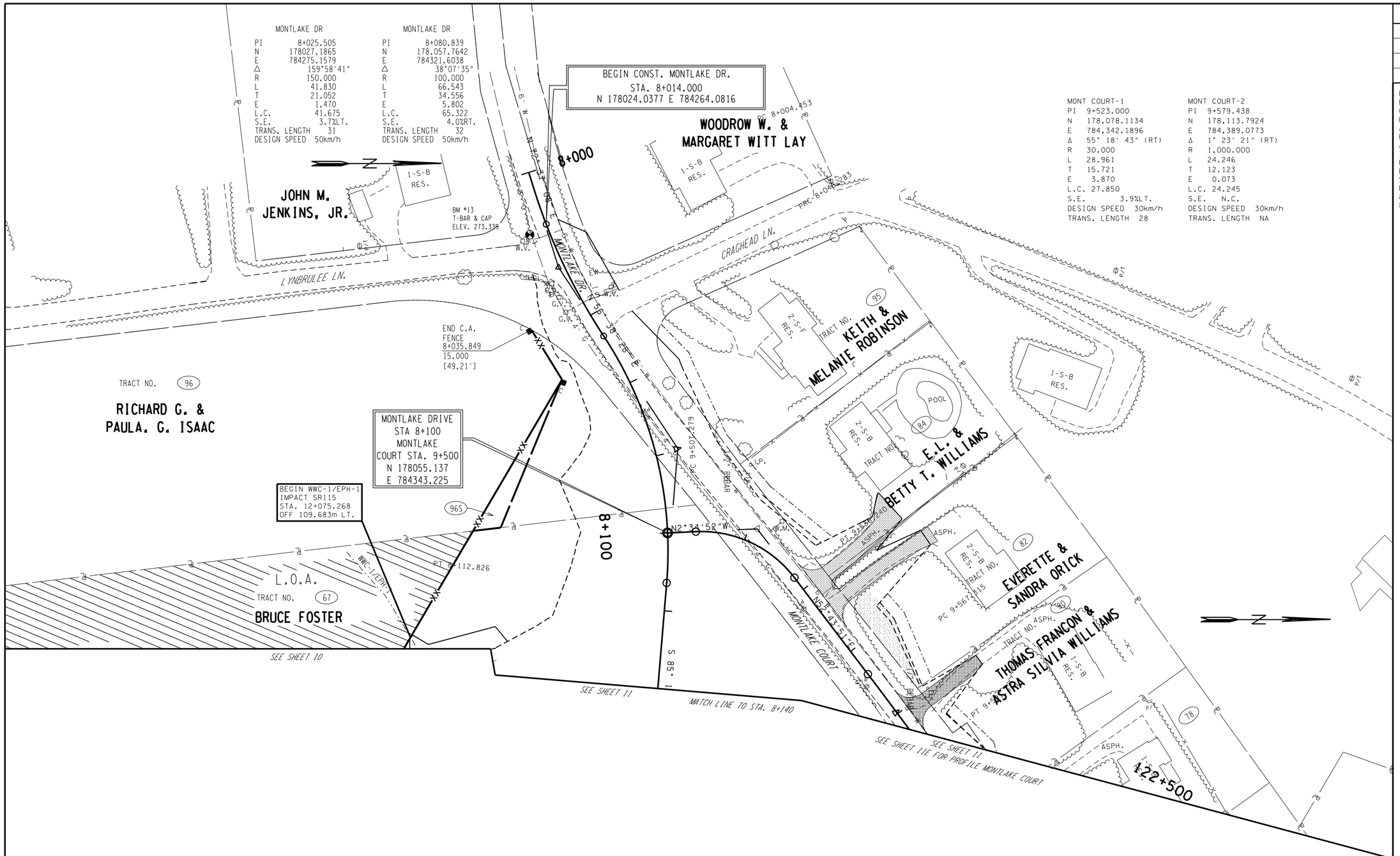
PROPOSED LAYOUT

STA. 11+500 - STA. 11+800

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	16
CONST.	2016	47026-3279-14	16

REV. 04-13-2001: REVISED SLOPE EASEMENT AND CONST. EASEMENT ON TRACT #95
REV. 28-FEB-2003: REMOVED OLD ALIGNMENT FOR MT. VERNON RD.
REV. 15-MAR-2004: RESTORED ACQUISITION TO PRIOR CONDITION TRACTS 78 AND 80. ADDED TRACT 96S.
REV. 22-AUG.-2014: TURNED OFF BEARINGS AND DISTANCES. REVISED SLOPE LIMITS FOR MONTLAKE DRIVE.
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. TRACTS 80, 82 AND 84.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

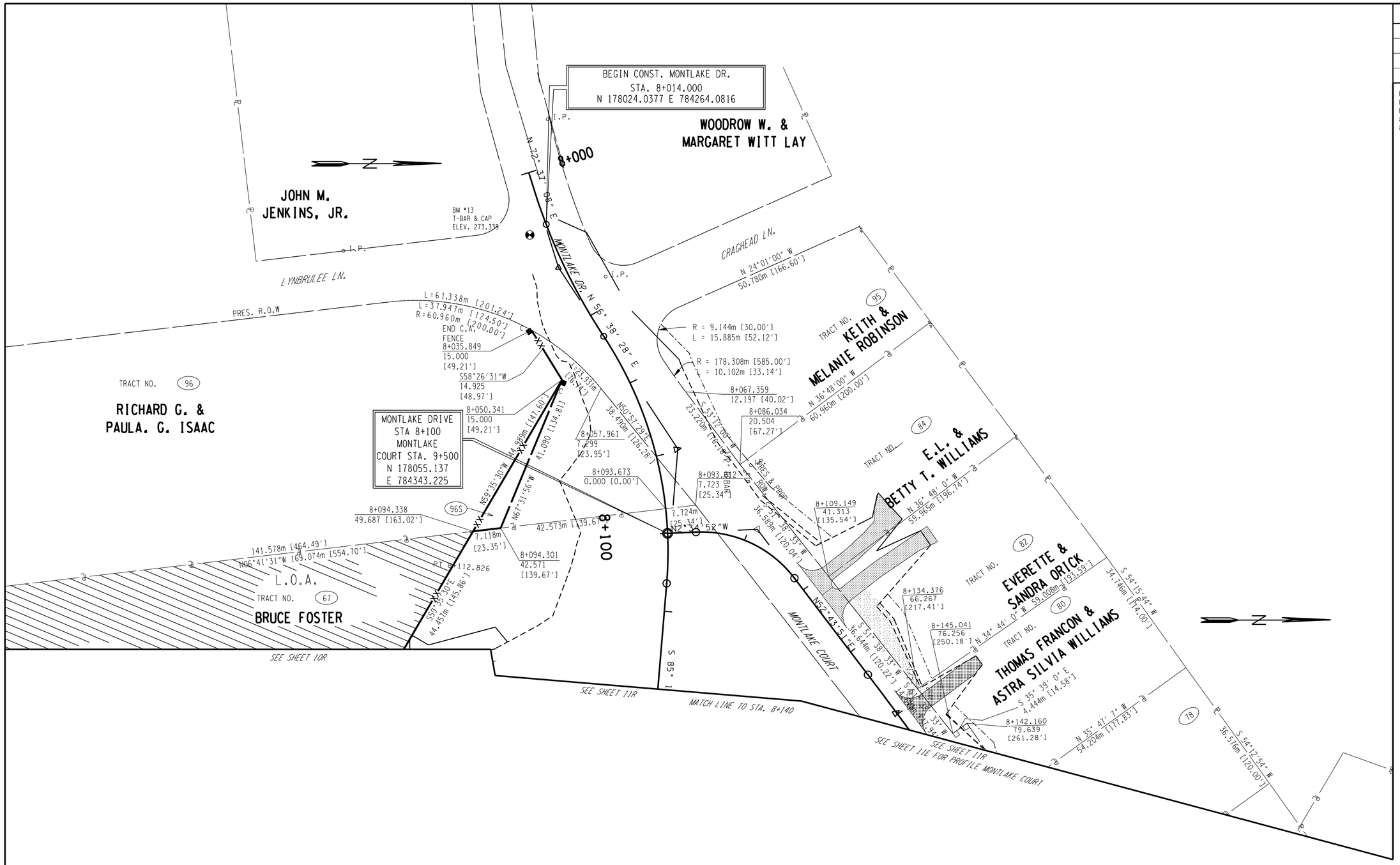
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT
STA. 8+014 - STA. 8+140
STA.9+500 - STA.9+585

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	16R
CONST.	2016	47026-3279-14	16R

REV. 22-AUG.-2014: ADDED SHEET FOR CLARITY.
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. TRACTS 80, 82 AND 84.



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY DETAILS
STA. 8+014 - STA. 8+140
STA.9+500 - STA.9+585

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2000	47026-2268-04	16A
CONST.	2016	47026-3279-14	16A

REV. 28-FEB-2003: REMOVED OLD ALIGNMENT FOR MT. VERNON RD.
REV. 22-AUG.-2014: REVISED WIDTH OF MONTLAKE DRIVE.

MONTLAKE DR

PI	8+025.505
N	178027.1865
E	784275.1579
Δ	159°58′41″
R	150.000
L	41.830
T	21.052
E	1.470
L.C.	41.675
S.E.	3.7%LT.
TRANS. LENGTH	31
DESIGN SPEED	50km/h

MONTLAKE DR

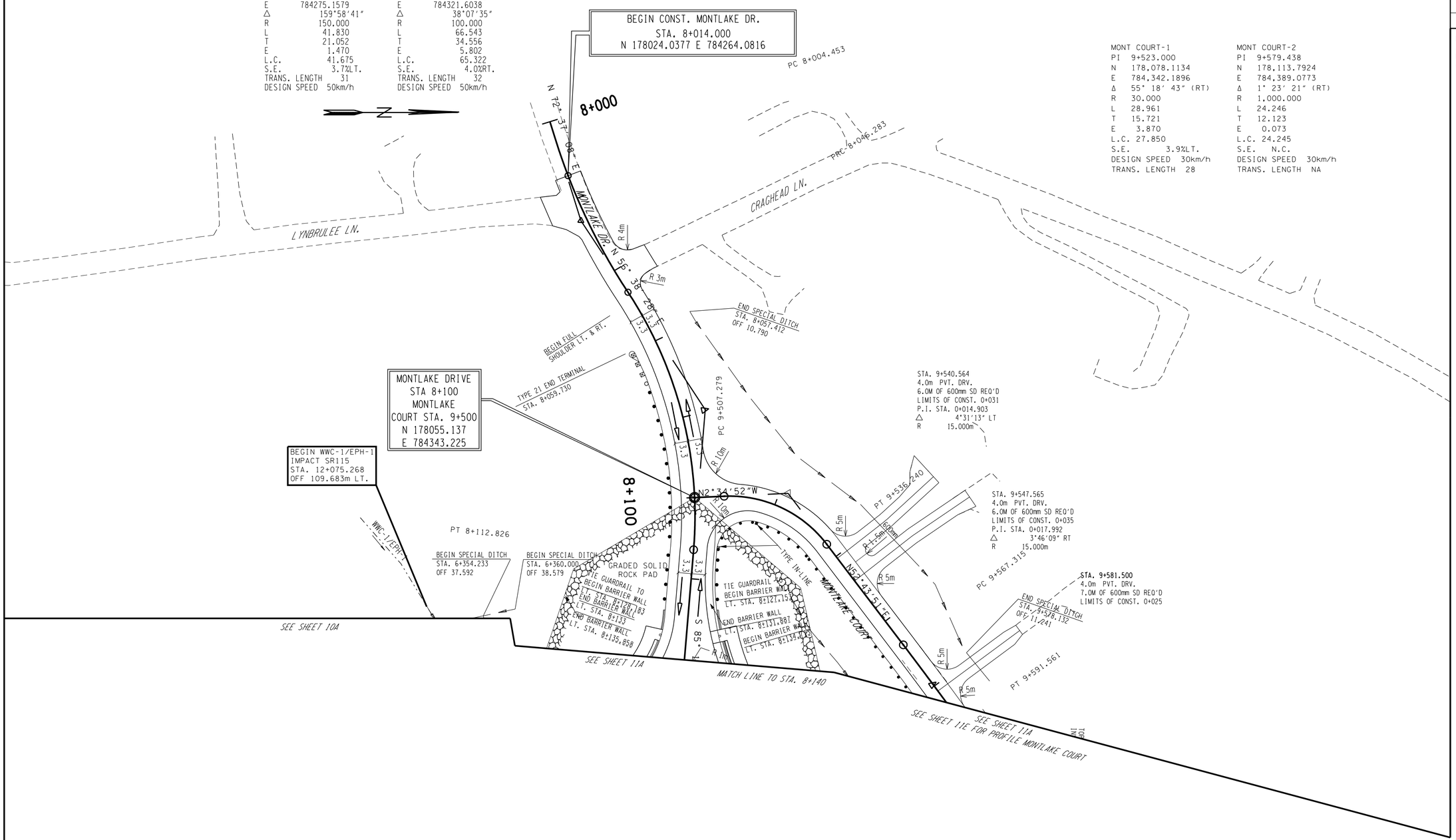
PI	8+080.839
N	178.057.7642
E	784321.6038
Δ	38°07′35″
R	100.000
L	66.543
T	34.556
E	5.802
L.C.	65.322
S.E.	4.0%RT.
TRANS. LENGTH	32
DESIGN SPEED	50km/h

MONT COURT-1

PI	9+523.000
N	178.078.1134
E	784.342.1896
Δ	55° 18′ 43″ (RT)
R	30.000
L	28.961
T	15.721
E	3.870
L.C.	27.850
S.E.	3.9%LT.
DESIGN SPEED	30km/h
TRANS. LENGTH	28

MONT COURT-2

PI	9+579.438
N	178.113.7924
E	784.389.0773
Δ	1° 23′ 21″ (RT)
R	1,000.000
L	24.246
T	12.123
E	0.073
L.C.	24.245
S.E.	N.C.
DESIGN SPEED	30km/h
TRANS. LENGTH	NA



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

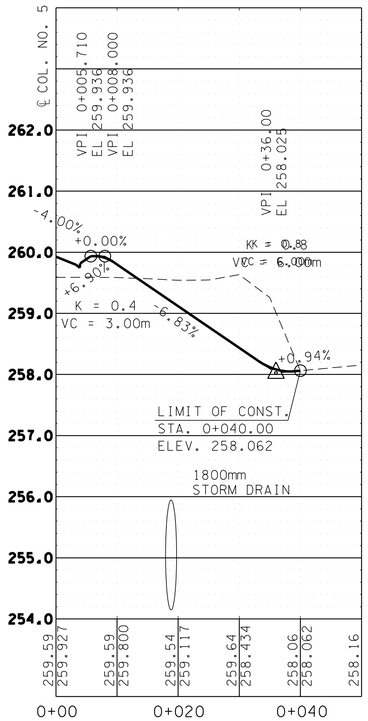
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT
STA. 8+014 - STA. 8+140
STA.9+500 - STA.9+585

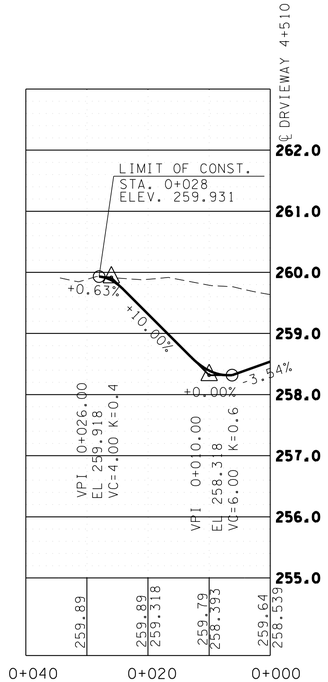
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	17

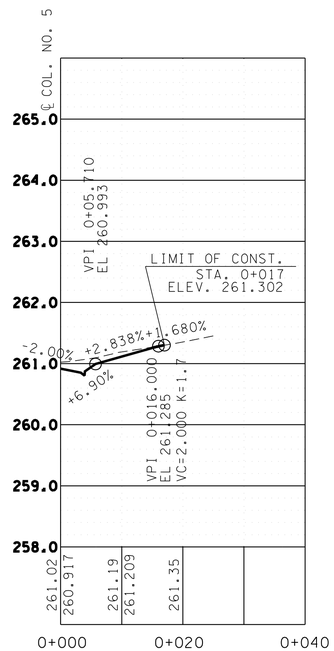
REV. 28-FEB-2003: REMOVED DRIVEWAY PROFILE 10+896 TRACT 31. ADDED DRIVEWAY PROFILE FOR 4+510 RT. OMITTED PROFILES 10+320 LT & 10+605 RT.
REV. 24-SEP-2004: ADDED DRIVEWAY PROFILES STA. 4+560RT. AND 0+030LT. MOVED DRIVEWAY FROM 10+913 TO STA 10+912
REV. 31-MAR-2006 ADDED DRIVEWAY 11+013 LT. FROM SHEET 18
REV. 22-AUG.-2014: REVISED DRIVEWAY PROFILE TO REFLECT ROADWAY WIDING STA.10+912 LT, 11+013 LT, 10+541 RT, 10+618 LT, 10+654 LT,10+774 LT, 10+813 LT.



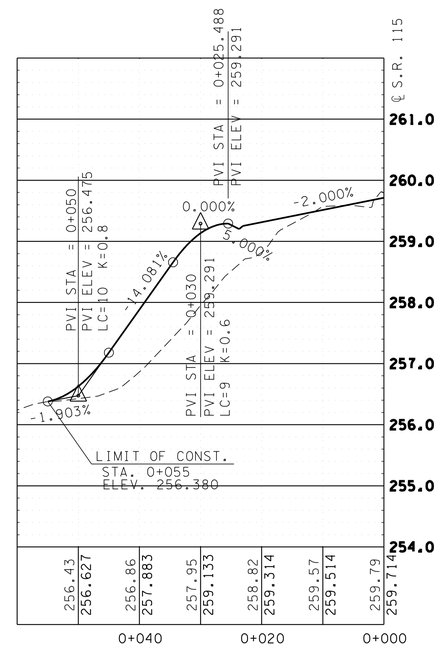
STA. 4+510 RT.
COL. 5
TRACT NO. 31 & 35
SHEET 7A



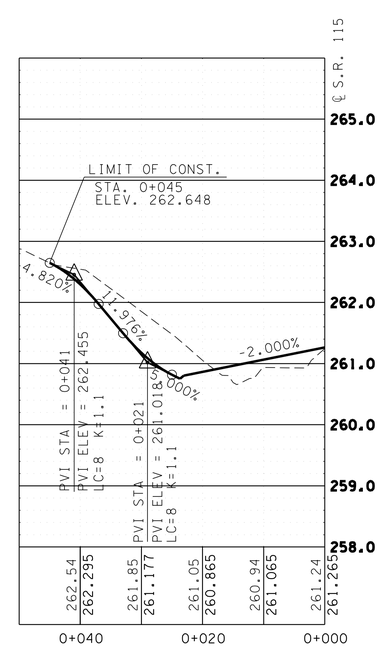
STA. 0+030 LT.
DRIVEWAY STA. 4+510
TRACT NO. 35
SHEET 7A



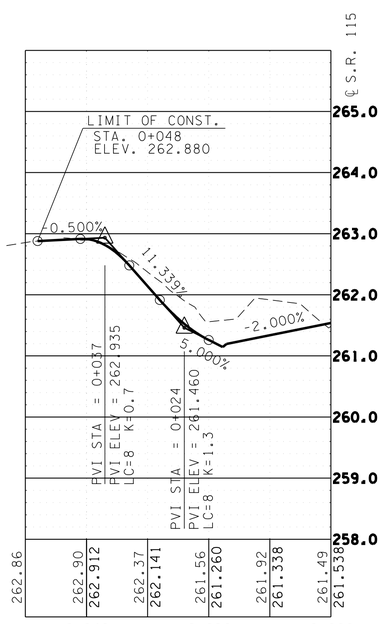
STA. 4+560 RT.
COL. 5
TRACT NO. 35
SHEET 7A



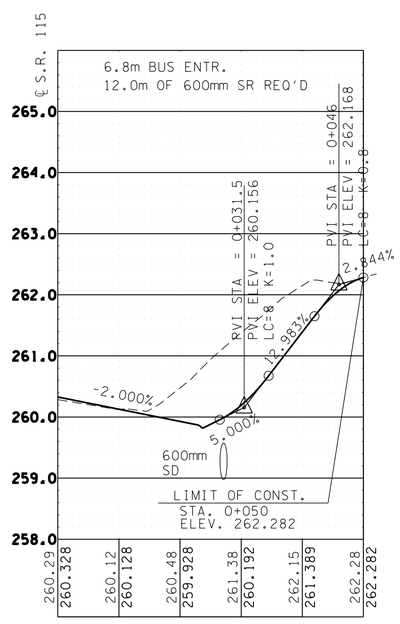
STA. 10+912 LT.
S.R. 115
TRACT NO. 33
SHEET 7A



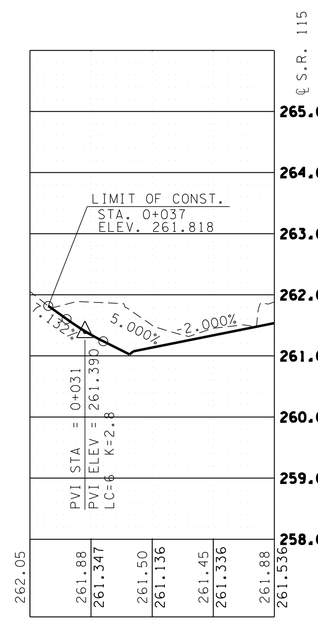
STA. 11+013 LT.
S.R. 115
TRACT NO. 37
SHEET 7A



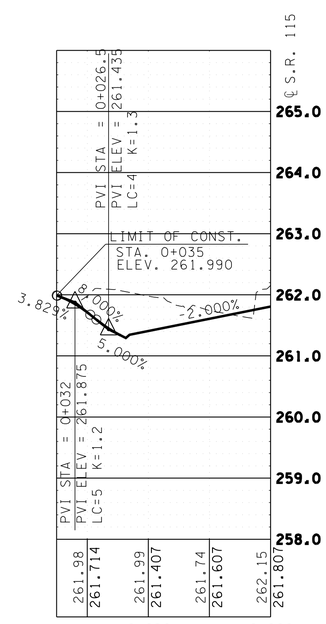
STA. 10+145 LT.
S.R. 115
TRACT NO. 97
SHEET 4B



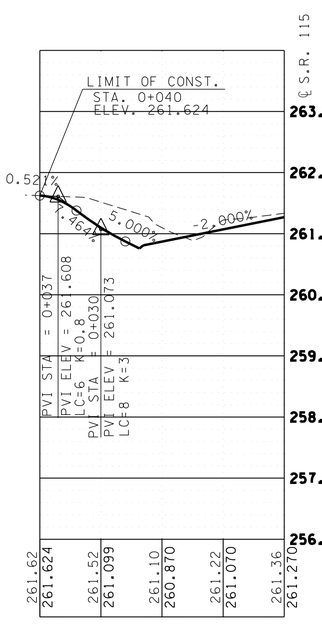
STA. 10+541 RT.
S.R. 115
TRACT NO. 9
SHEET 5A



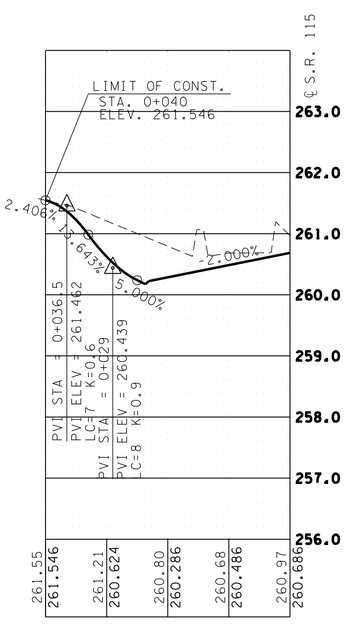
STA. 10+618 LT.
S.R. 115
TRACT NO. 15
SHEET 6A



STA. 10+654 LT.
S.R. 115
TRACT NO. 20
SHEET 6A



STA. 10+774 LT.
S.R. 115
TRACT NO. 27
SHEET 6A



STA. 10+813 LT.
S.R. 115
TRACT NO. 27
SHEET 6A

COORDINATE VALUES ARE NAD#83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

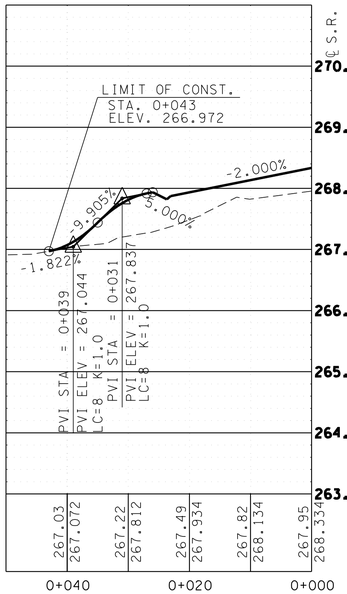
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVEWAYS AND FIELD RAMP PROFILES

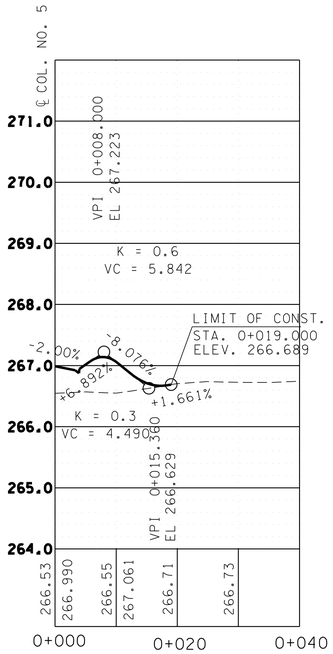
SCALE: HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	18

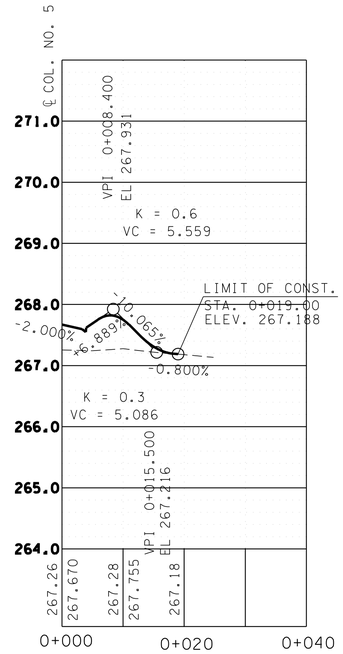
REV. 28-FEB-2003: REMOVED DRIVEWAY PROFILES 11+155 RT., 11+203 RT., 11+220 RT., 11+250 RT., 11+279 RT. & 11+300 RT. REVISED PROFILE 11+305 LT. ADDED DRIVEWAY PROFILES 4+627 RT., 4+676 RT., 4+722 RT., 4+774 RT., 4+795 RT., 4+815 RT. & 4+845 RT.
REV. 15-MAR-2004: MOVED DRIVEWAY FROM STA . 11+175LT TO STA. 11+168LT.
REV. 31-MAR-2006 MOVED DRIVEWAY 11+013 LT. TO SHEET 17. ADDED DRIVEWAY 11+195 LT.
REV. 24-SEP-2004: ADDED DRIVEWAY PROFILES STA. 4+560RT. AND 0+030LT. MOVED DRIVEWAY FROM 10+913 TO STA 10+912
REV. 31-MAR-2006 ADDED DRIVEWAY 11+013 LT. FROM SHEET 18
REV. 22-AUG.-2014: REVISED DRIVEWAY PROFILES STA.11+232 LT, 11+108 LT, 11+168 LT, 11+195 LT.



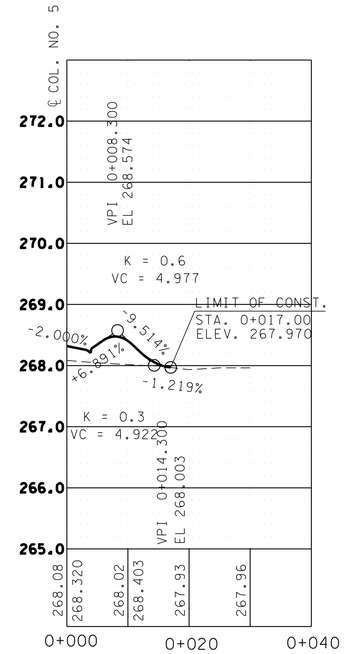
STA. 11+232 LT.
S.R. 115
TRACT NO. 42
SHEET 8A



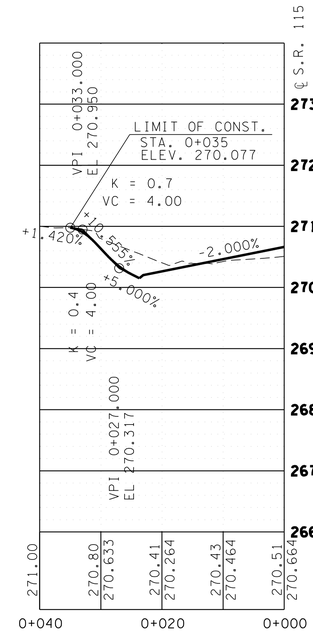
STA. 4+774 RT.
COL. 5
TRACT NO. 45
SHEET 8A



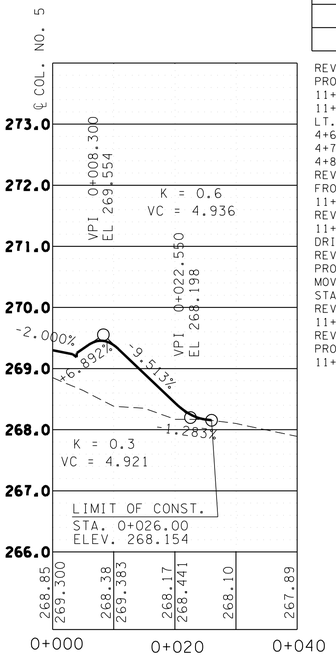
STA. 4+795 RT.
COL. 5
TRACT NO. 47
SHEET 8A



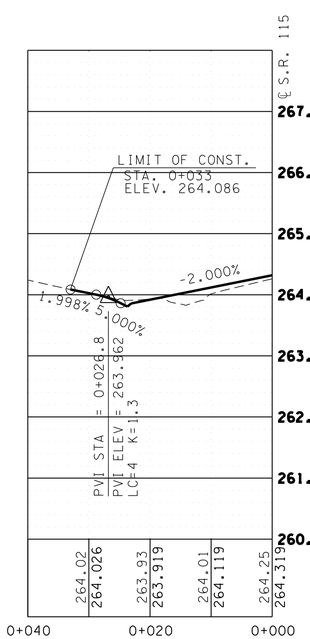
STA. 4+815 RT.
COL. 5
TRACT NO. 47
SHEET 8A



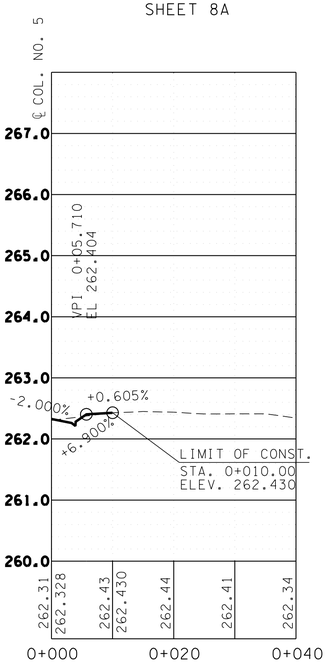
STA. 11+305 LT.
S.R. 115
TRACT NO. 49
SHEET 8A



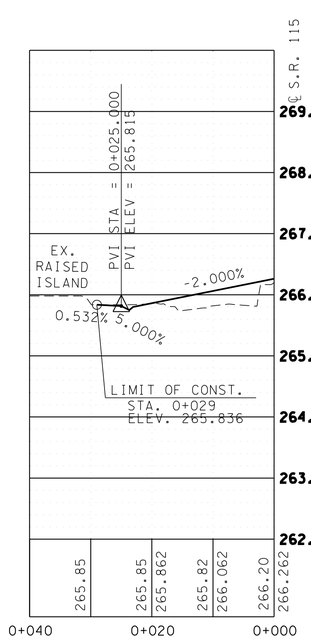
STA. 4+845 RT.
COL. 5
TRACT NO. 47
SHEET 8A



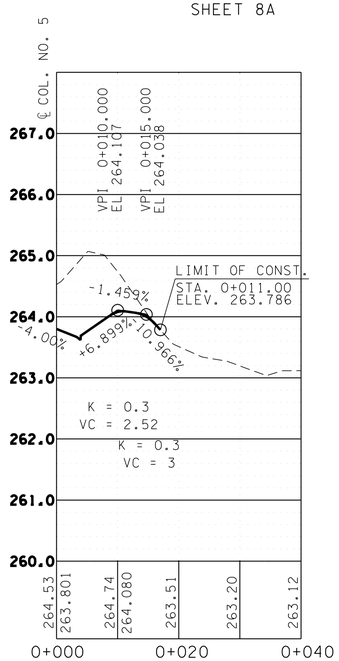
STA. 11+108 LT.
S.R. 115
TRACT NO. 42
SHEET 7A



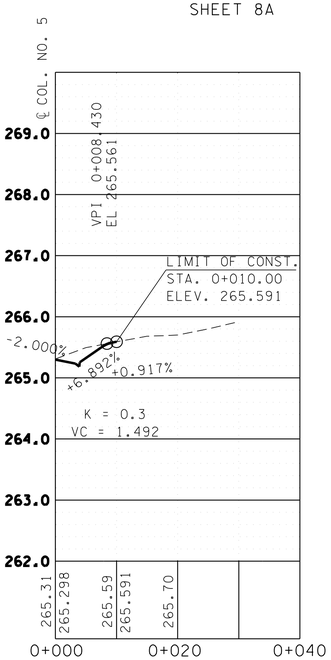
STA. 4+627 RT.
COL. 5
TRACT NO. 35
SHEET 7A



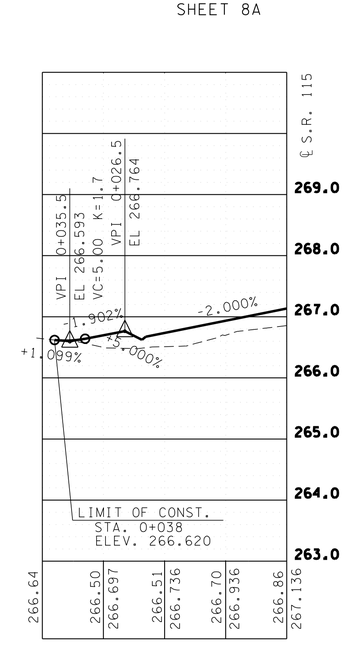
STA. 11+168 LT.
S.R. 115
TRACT NO. 42
SHEET 7A



STA. 4+676 RT.
COL. 5
TRACT NO. 39
SHEET 7A



STA. 4+722 RT.
COL. 5
TRACT NO. 45
SHEET 7A



STA. 11+195 LT.
S.R. 115
TRACT NO. 42
SHEET 7A

COORDINATE VALUES ARE NAD#83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

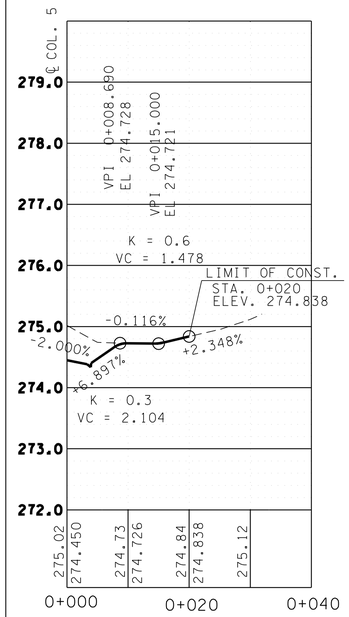
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVEWAYS AND FIELD RAMP PROFILES

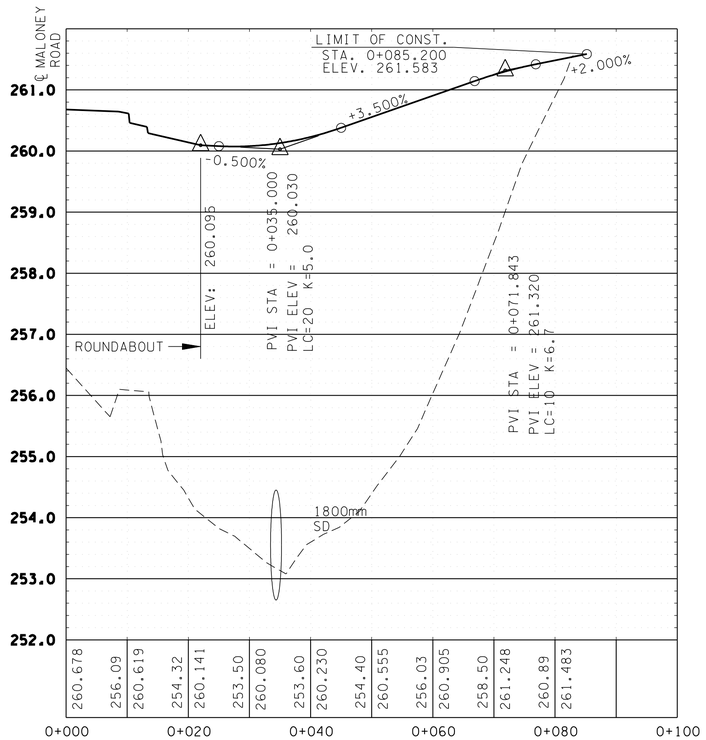
SCALE: HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	19

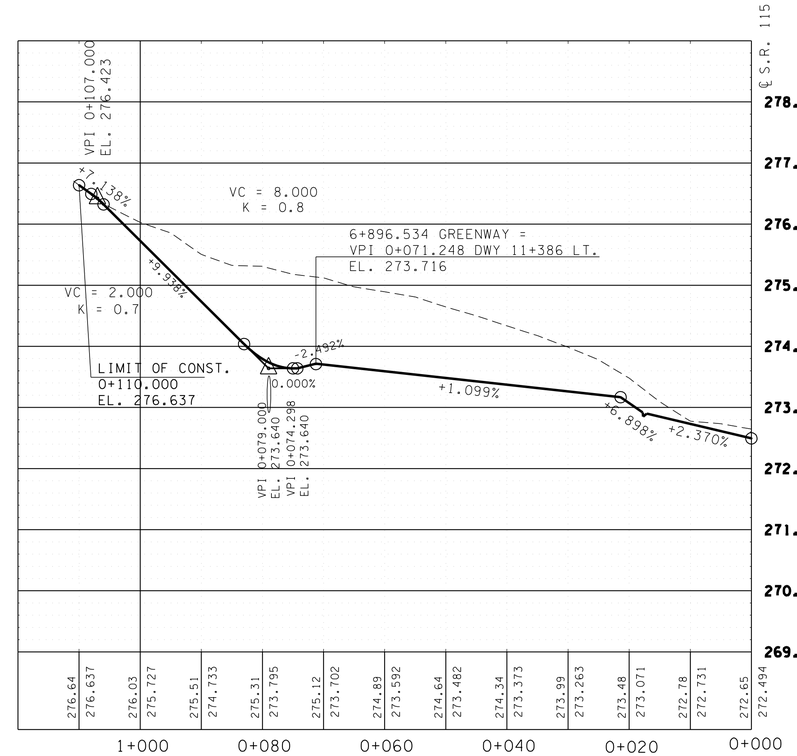
REV. 28-FEB-2003: REMOVED DRIVEWAY PROFILES 11+396 RT., 11+409 RT., 11+432 RT., 11+485 RT., 11+499 RT., 11+520 RT. & 11+575 RT. REVISED 11+368 LT. CHANGED 11+385 LT TO 11+386 LT & REVISED. ADDED DRIVEWAY PROFILES 4+865 RT., 4+971 RT., 4+999 RT., 5+067 RT., 5+150 RT. & 1+110 LT. CHANGED 12+535 LT. TO 12+538 LT. & REVISED.
REV. 15-MAR-2004: ADDED DRIVEWAY STA 1+030 LT.
REV. 24-SEP-2004: ADDED DRIVEWAY PROFILES STA. 4+56ORT. AND 0+030LT. MOVED DRIVEWAY FROM 10+913 TO STA 10+912
REV. 31-MAR-2006 ADDED DRIVEWAY 11+013 LT. FROM SHEET 18
REV. 22-AUG.-2014: REVISED DRIVEWAY PROFILES STA. 11+365 LT, 11+386 LT, 1+110 LT.
REV. 7-NOV-2014: REMOVED DRIVEWAY STA 1+030.



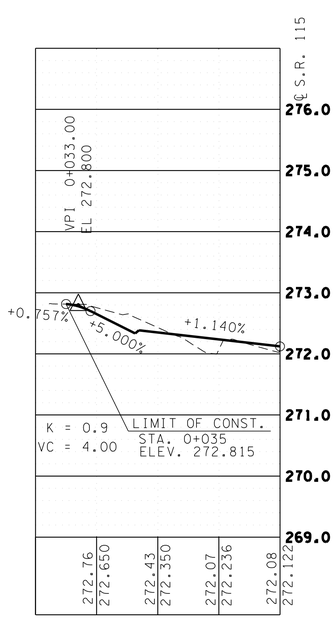
STA. 5+150 RT.
COL. 5
TRACT NO. 57
SHEET 9A



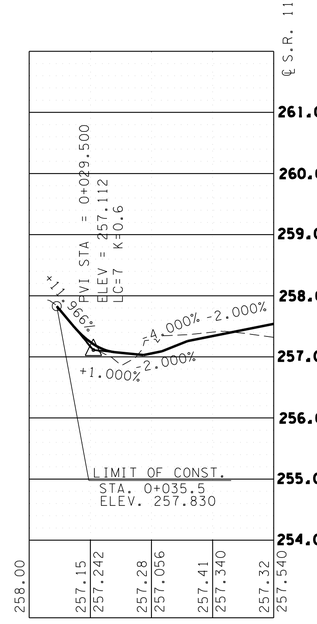
STA. 1+107 RT.
MALONEY
TRACT NO. 3
SHEET 13A



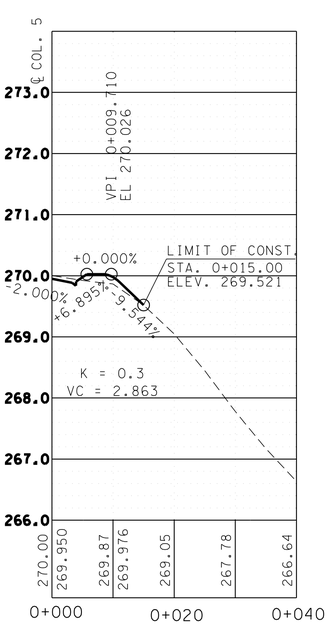
STA. 11+386 LT.
S.R. 115
TRACT NO. 58
SHEET 8A



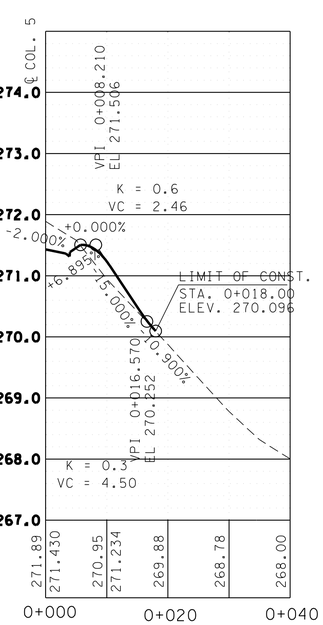
STA. 11+365 LT.
S.R. 115
TRACT NO. 49
SHEET 8A



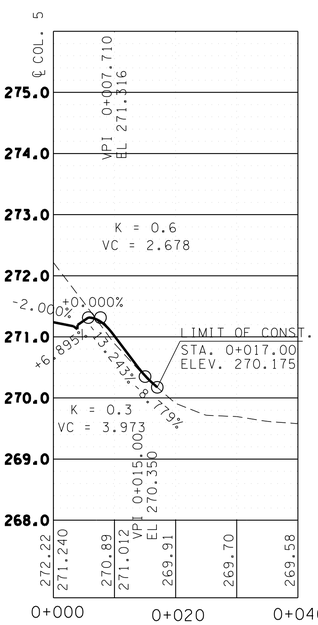
STA. 12+537 LT.
S.R. 115
TRACT NO. 92
SHEET 12A



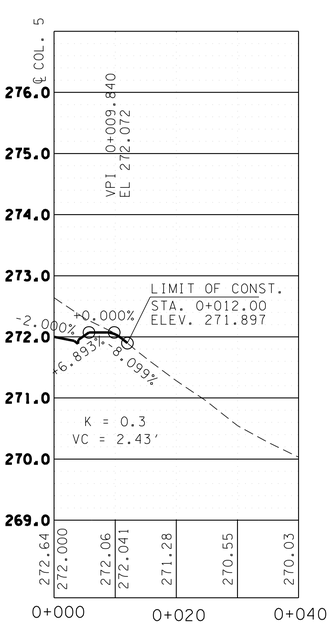
STA. 4+865 RT.
COL. 5
TRACT NO. 48
SHEET 8A



STA. 4+971 RT.
COL. 5
TRACT NO. 48
SHEET 8A



STA. 4+999 RT.
COL. 5
TRACT NO. 51
SHEET 8A



STA. 5+067 RT.
COL. 5
TRACT NO. 51
SHEET 8A

COORDINATE VALUES ARE NAD#83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

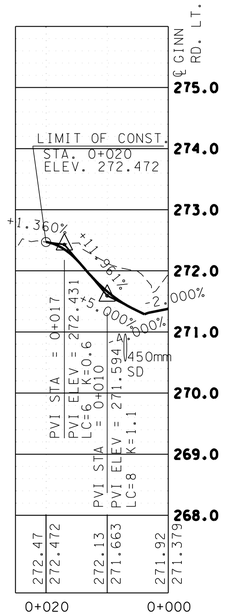
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVEWAYS AND FIELD RAMP PROFILES

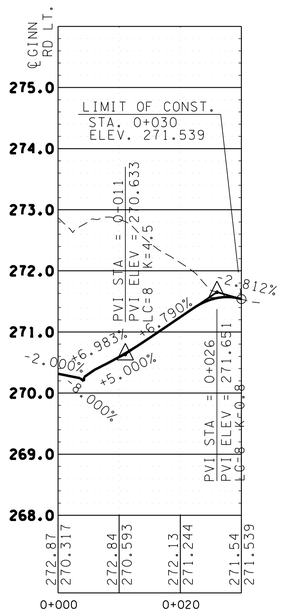
SCALE: HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	20

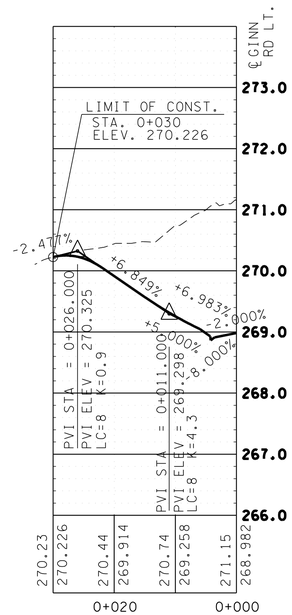
REV. 03-01-2002: OMITTED DRIVEWAY PROFILE FOR TRACT # 17. MOVED PROFILE FOR TRACT # 98 FROM STA. 1+053LT TO STA 1+080LT.
REV. 28-FEB-2003: REVISED DRIVEWAY PROFILES ON DRESSER RD. ON STA. 2+225 LT., 2+296 LT. & 2+341 LT. RENAMED SHEET FROM 21 TO 20.
REV. 24-SEP-2004: ADDED DRIVEWAY PROFILES STA. 4+560RT. AND 0+030LT. MOVED DRIVEWAY FROM 10+913 TO STA 10+912
REV. 31-MAR-2006 ADDED DRIVEWAY 11+013 LT. FROM SHEET 18
REV. 22-AUG.-2014: REVISED DRIVEWAY PROFILES STA. 1+054
REV. 7-NOV-2014: REMOVED DRIVEWAY STA 1+054 LT.
REV. 17-SEP-2015: ADDED DRIVEWAY STA. 0+053 RT. TRACT 52.



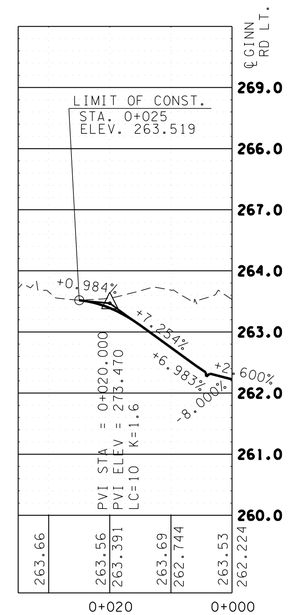
STA. 2+522 LT.
GINN RD. LT.
SHEET 14A



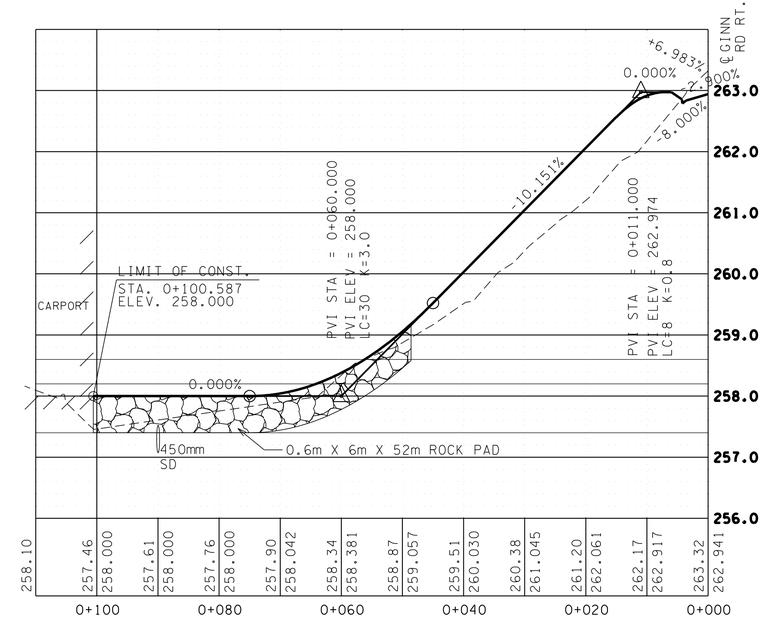
STA. 2+580 RT.
GINN RD. LT.
TRACT NO. 14
SHEET 14A



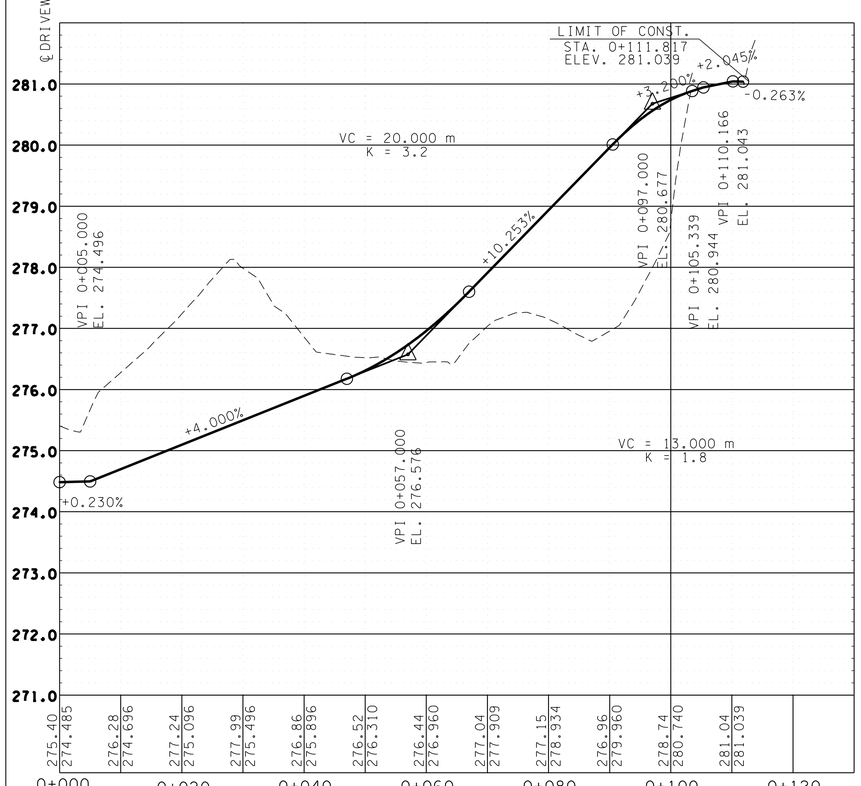
STA. 2+592 LT.
GINN RD. LT
TRACT NO. 12
SHEET 14A



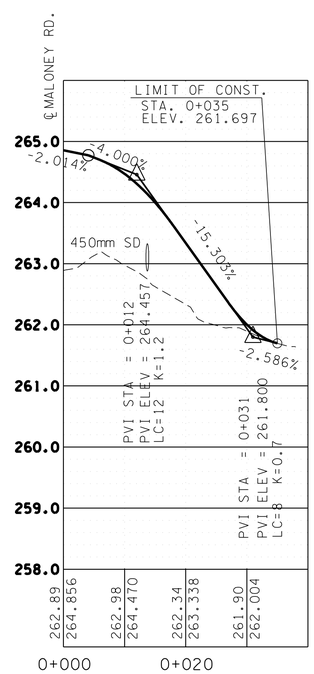
STA. 2+643 LT.
GINN RD. LT.
TRACT NO. 21
SHEET 6A



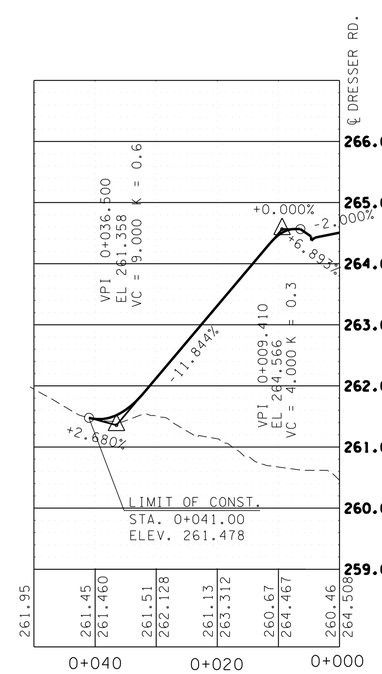
STA. 2+875 LT.
GINN RD. RT.
TRACT NO. 26
SHEET 6A



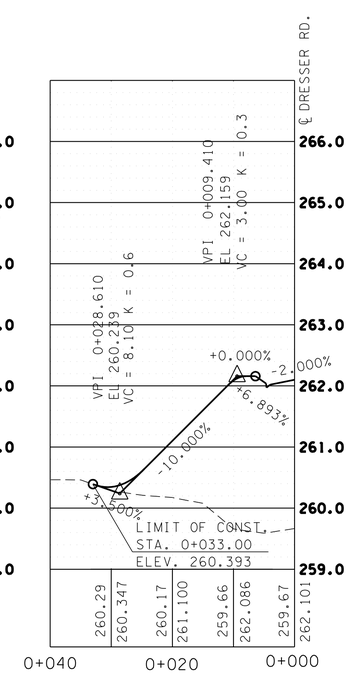
STA. 0+087.5 RT. - DRIVEWAY 11+386
TRACT NO. 52 - SHEET 8A



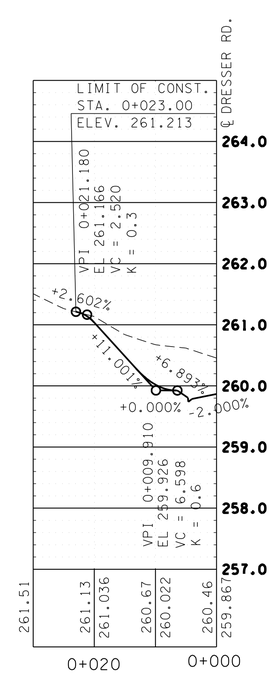
STA. 1+417 RT.
MALONEY RD.
TRACT NO 5
SHEET 5A



STA. 2+255 LT.
DRESSER RD.
TRACT NO. 5
SHEET 5A



STA. 2+296 LT.
DRESSER RD.
TRACT NO. 4
SHEET 4B



STA. 2+341 LT.
DRESSER RD.
TRACT NO. 4
SHEET 4B

COORDINATE VALUES ARE NAD#83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

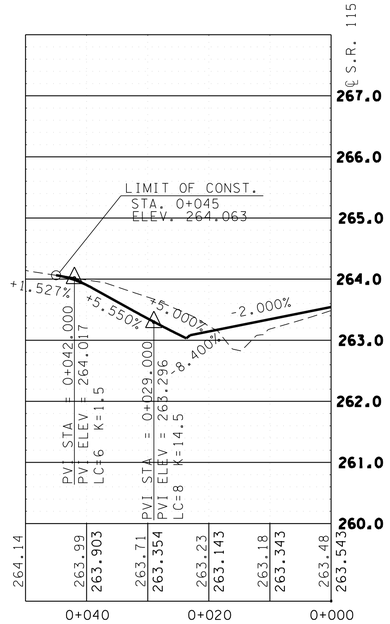
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVEWAYS AND FIELD RAMP PROFILES

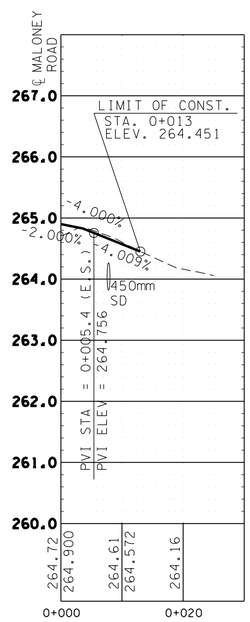
SCALE: HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	21

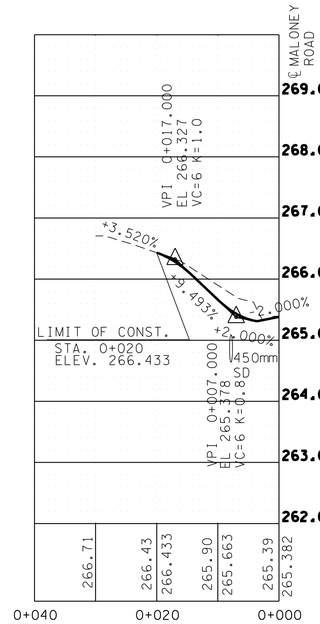
REV. 04-13-2001: OMITTED PROFILES STA. 3+510, 3+611, 3+650, 3+910, 4+030, 4+050, 4+090, 4+095, & 4+600. ADDED PROFILES FOR SR115 STATIONS 10+894, 11+048, 11+084 & 11+110
REV. 28-FEB-2003: REMOVED DRIVEWAY PROFILE STA. 11+048 RT & 11+110 RT. OMITTED PROFILE STA. 10+894 RT. RENAMED SHEET FROM 22 TO 21.
REV. 15-MAR-2004: ADDED DRIVEWAYS STA 1+194, 1+197 AND 2+307.
REV. 24-SEP-2004: ADDED DRIVEWAY STA 0+019 LT.
REV. 24-SEP-2004: ADDED DRIVEWAY PROFILES STA. 4+560RT. AND 0+030LT. MOVED DRIVEWAY FROM 10+913 TO STA 10+912
REV. 31-MAR-2006 ADDED DRIVEWAY 11+013 LT. FROM SHEET 18
REV. 22-AUG.-2014: REVISED DRIVEWAY PROFILES STA. 11+084 LT, 1+494.5 RT, 1+497 RT.



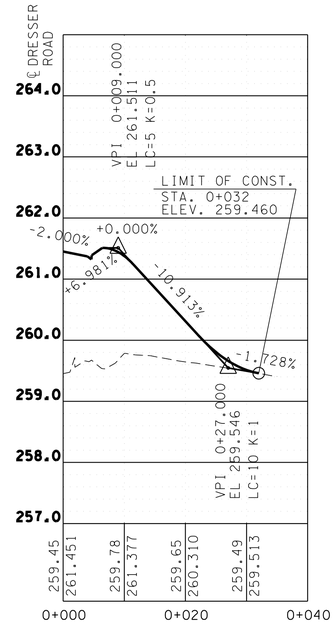
STA. 11+084 LT.
S.R. 115
TRACT NO. 37
SHEET 7A



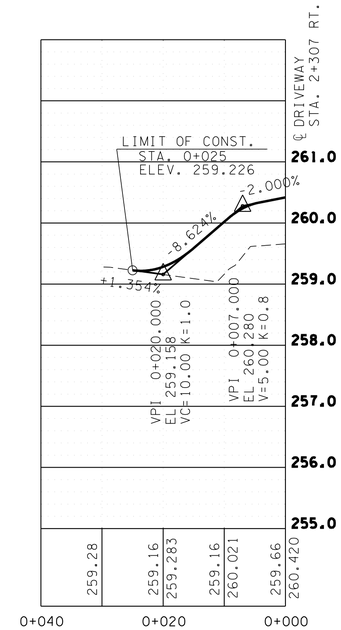
STA. 1+470 RT.
MALONEY
TRACT NO. 1
SHEET 5A



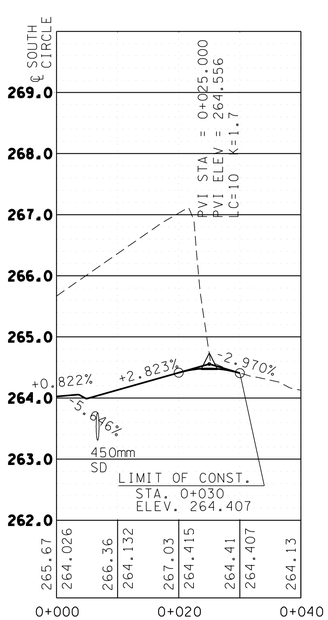
STA. 1+497 RT.
MALONEY
TRACT NO. 6
SHEET 5A



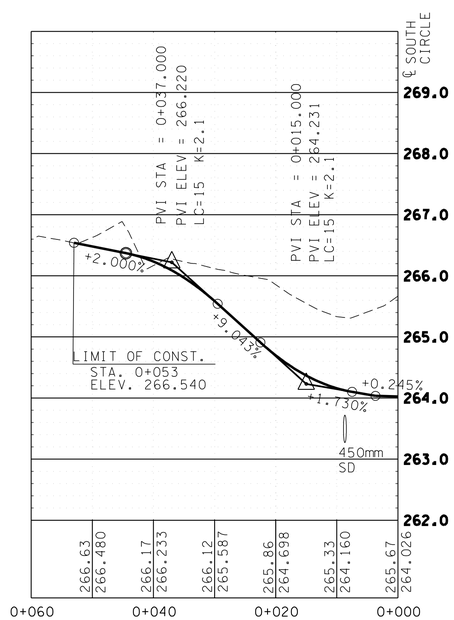
STA. 2+307 RT.
DRESSER
TRACT NO. 1
SHEET 4B



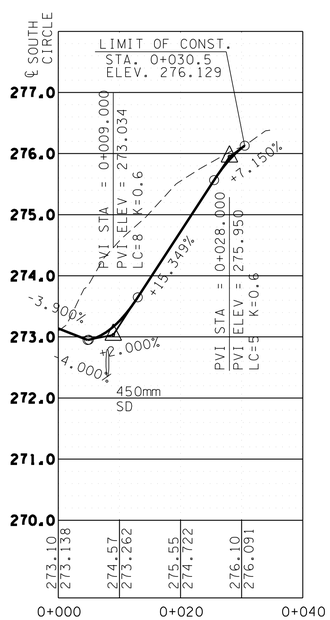
STA. 0+019 LT.
DRIVEWAY 2+307 RT.
TRACT NO. 1
SHEET 4B



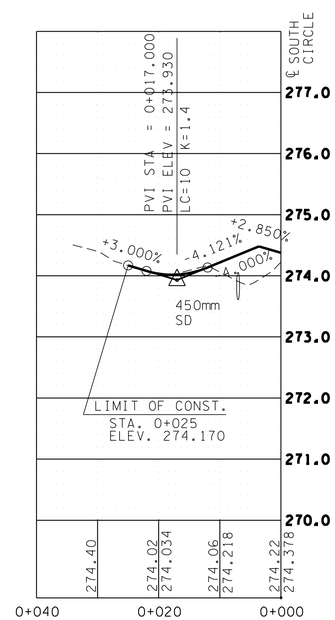
STA. 3+060 RT.
SOUTH CIRCLE
TRACT NO. 18
SHEET 6A



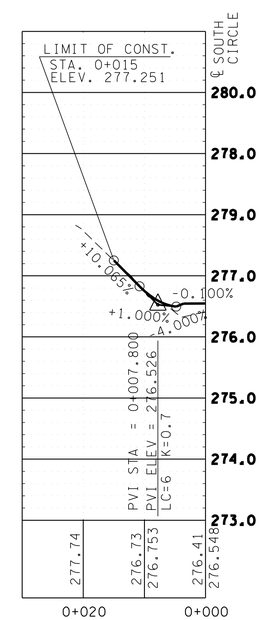
STA. 3+060 LT.
SOUTH CIRCLE
TRACT NO. 22
SHEET 6A



STA. 3+119 RT.
SOUTH CIRCLE
TRACT NO. 25
SHEET 6A



STA. 3+127 LT.
SOUTH CIRCLE
TRACT NO. 24
SHEET 6A



STA. 3+141 LT.
SOUTH CIRCLE
TRACT NO. 24
SHEET 6A

COORDINATE VALUES ARE NAD#83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

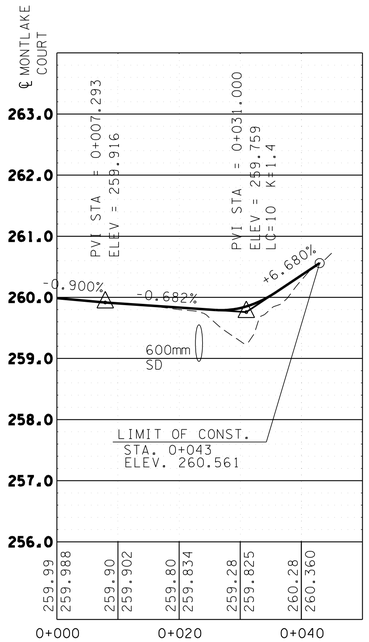
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVEWAYS AND FIELD RAMP PROFILES

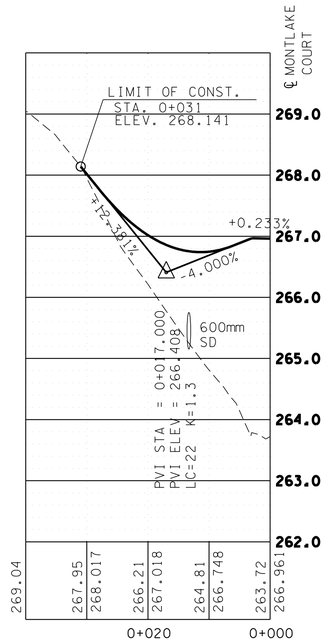
SCALE: HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	22

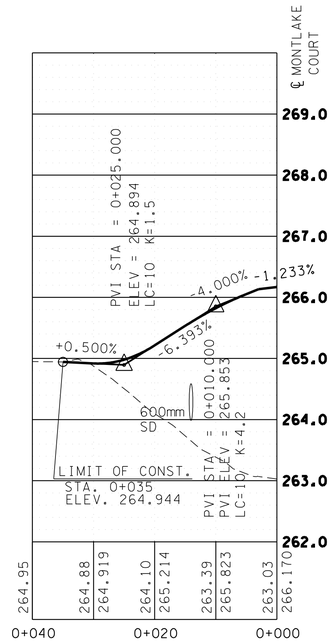
REV. 04-13-2001 OMITTED PROFILE STATIONS 4+960 4+788 4+834.4 & 4+848.4 REVISED PROFILE STATIONS 9+540.800 9+547.600 AND 9+851.500 . ADDED PROFILE STATIONS 4+833 AND 4+850
REV. 28-FEB-2003: REMOVED DRIVEWAY PROFILE STA. 19+058 RT. RENAMED SHEET FROM 23 TO 22.
REV. 15-MAR-2003: ADDED DRIVEWAY TRACT NO 62.
REV. 6-AUG-2008: REMOVED DRIVEWAY TRACT 62 STA. 9+351.
REV. 24-SEP-2004: ADDED DRIVEWAY PROFILES STA. 4+56ORT. AND 0+030LT. MOVED DRIVEWAY FROM 10+913 TO STA 10+912
REV. 31-MAR-2006 ADDED DRIVEWAY 11+013 LT. FROM SHEET 18
REV. 22-AUG.-2014: REVISED DRIVEWAY PROFILES STA. 9+581 LT, 11+305 LT. 1+438 LT, 0+044 RT, 3+833 RT, 3+850 LT.



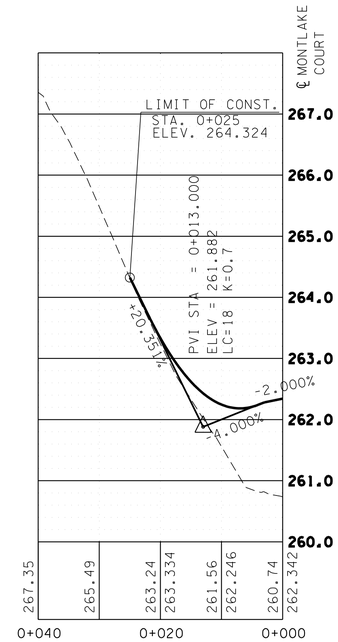
STA. 9+620.024
END OF MONTLAKE CT.
MICHAEL SCOTT WARD
SHEET 11A



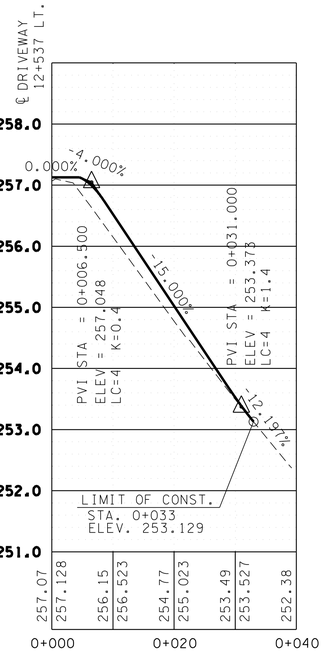
STA. 9+540.564 LT.
MONTLAKE CT.
TRACT NO. 84
SHEET 16A



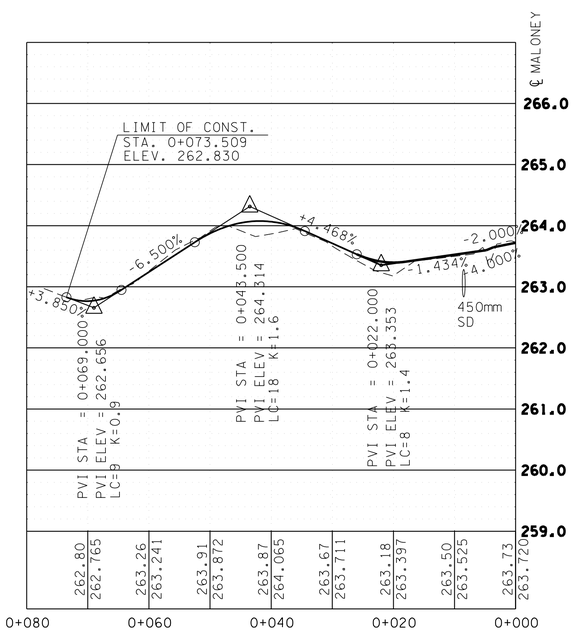
STA. 9+547.565 LT.
MONTLAKE CT.
TRACT NO. 82
SHEET 16A



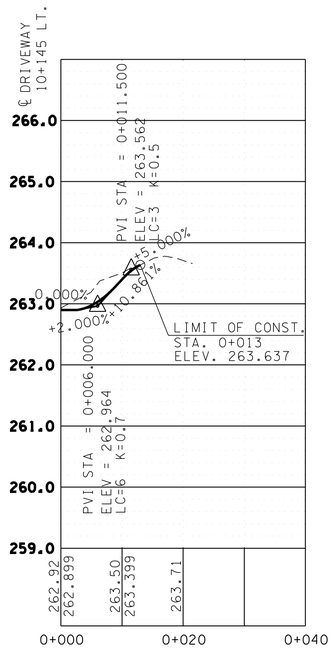
STA. 9+581.500 LT.
MONTLAKE CT.
TRACT NO. 80
SHEET 16A



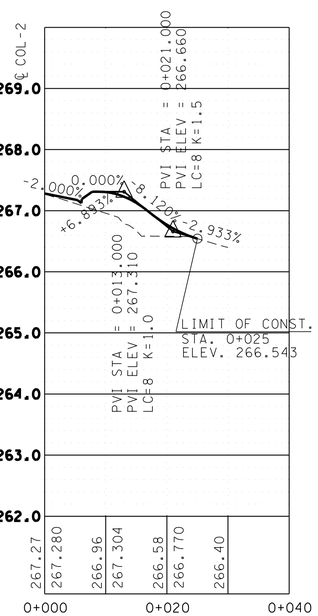
STA. 0+028 RT.
DRIVEWAY 12+537 LT.
TRACT NO. 92
SHEET 12A



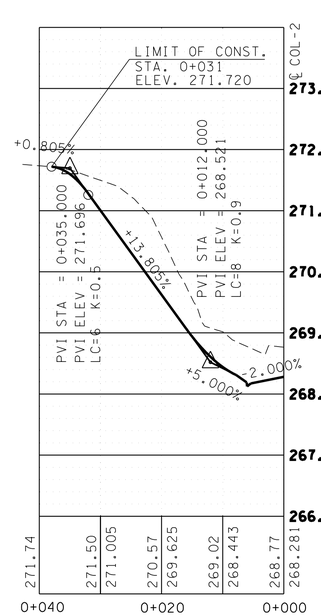
STA. 1+438
MALONEY
TRACT NO. 6
SHEET 5A



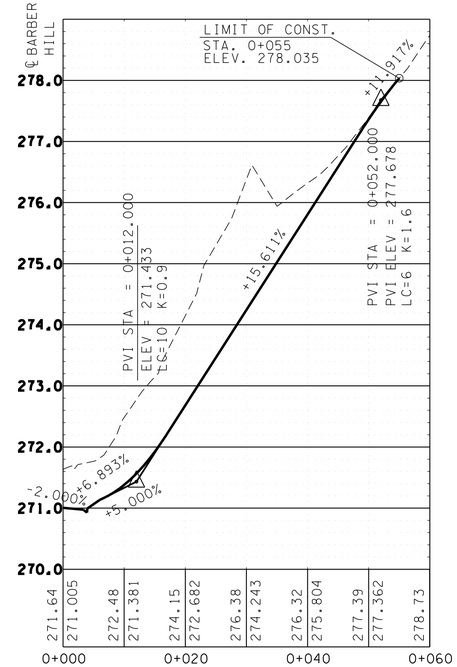
STA. 0+044 RT.
DRIVEWAY 10+145 LT.
TRACT NO. 97
SHEET 4B



STA. 3+833 RT.
COLLECTOR NO. 2
TRACT NO. 43
SHEET 8A



STA. 3+850 LT.
COLLECTOR NO. 2
TRACT NO. 49
SHEET 8A



STA. 7+551 RT.
BARBER HILL
TRACT NO. 72
SHEET 11A

COORDINATE VALUES ARE NAD#83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

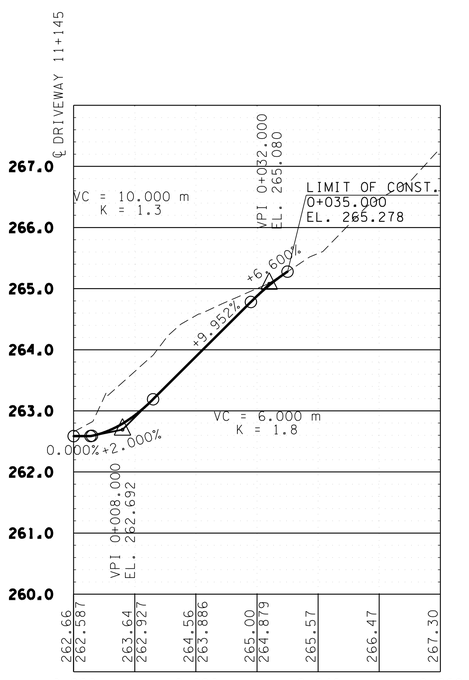
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVEWAYS AND FIELD RAMP PROFILES

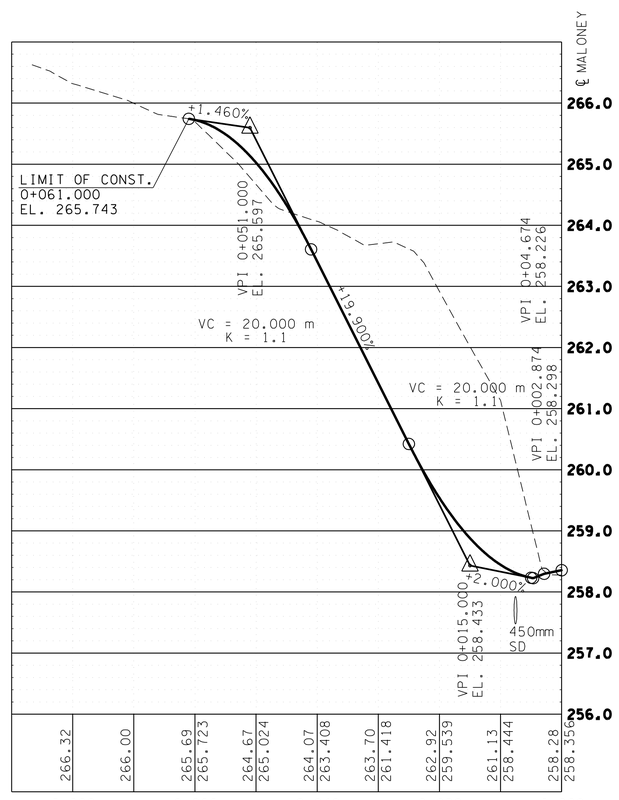
SCALE: HORIZ. 1:500
VERT. 1:50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	22A

REV. 17-SEP-2015: ADDED SHEET FOR ADDITIONAL DRIVEWAYS.



STA. 0+034 RT.
DRIVEWAY 10+145
TRACT NO. 3
SHEET 4A



STA. 1+016
MALONEY
TRACT NO. 98 & 99
SHEET 13A

COORDINATE VALUES ARE NAD#83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

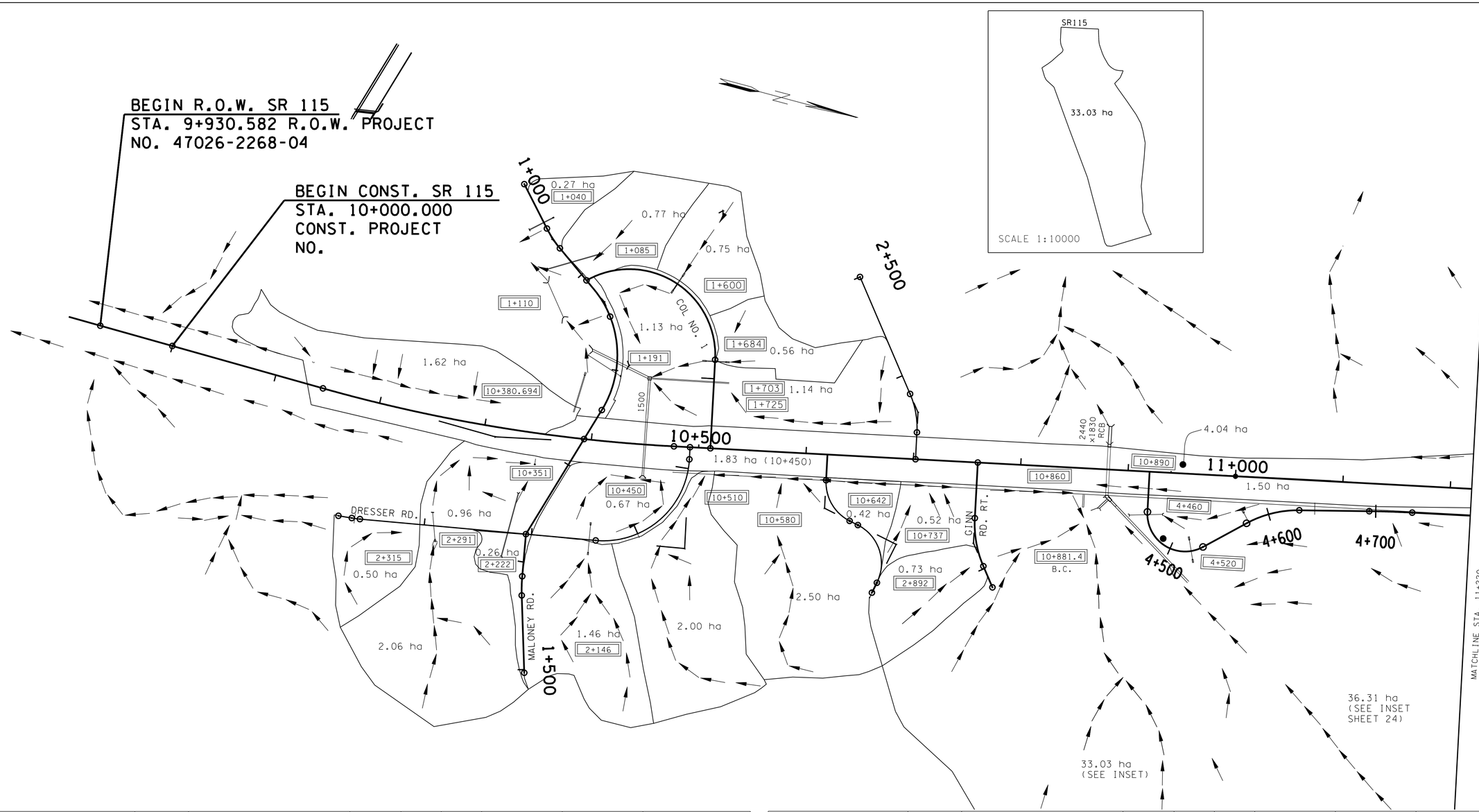
PRIVATE DRIVEWAYS AND FIELD RAMP PROFILES

SCALE: HORIZ. 1:500
VERT. 1:50

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	23

REV. 04-13-2001: REVISED DRAINAGE AREA & REMOVED VULCAN RD. & COLLECTOR NO. 2
REV. 28-FEB-2003: REVISED DRAINAGE MAP & TABLE TO REFLECT NEW ALIGNMENT. RENAMED SHEET FROM 24 TO 23.
REV. 22-AUG.-2014: REVISED ROW BEGINNING STATION SR115.



STRUCTURE LOCATION	SKEW	LAND USE	AREA (ha)	Tc MIN.	C	mm/h I-50	mm/h I-100	Q-m³/S Q-50	Q-m³/S Q-100	Q-50 STRUCTURE
1+040 MALONEY RD.	90°	WOODED	0.270	5	0.20	193	212	0.029	0.032	600
1+085 MALONEY RD.	66° LT	RESIDENTIAL	0.770	5	0.40	193	212	0.165	0.181	600
1+110 MALONEY RD.	65° LT.	GRASSED AREA	15.400	6	0.60	188	200	4.825	5.133	1800
1+191 MALONEY RD.	68° LT.	ROADWAY/RES./GRASSED	13.260	5	0.55	193	212	3.910	4.295	1800
1+600 COLLECTOR NO.1	90°	GRASSED AREA	0.750	5	0.40	193	212	0.161	0.177	600
1+684 COLLECTOR NO.1	90°	GRASSED AREA	0.560	5	0.60	193	212	0.180	0.198	600
1+703 COLLECTOR NO.1	90°	COMMERICAL PAVED	1.140	5	0.80	193	212	0.489	0.537	900
1+725 COLLECTOR NO.1	72° RT	COMMERICAL PAVED	0.500	5	0.70	193	212	0.188	0.206	600
2+146 DRESSER RD.	67° RT.	RESIDENTIAL/GRASSED AREA	1.460	5	0.40	193	212	0.313	0.344	600
2+222 DRESSER RD.	80° LT.	COMMERCIAL PAVED	0.260	5	0.80	193	212	0.112	0.122	600
2+291 DRESSER RD.	79° RT.	COM. PAVED/GRASSED AREA	2.060	6	0.50	185	200	0.529	0.572	600
2+315 DRESSER RD.	90°	COM. PAVED/GRASSED AREA	0.500	5	0.50	193	212	0.134	0.147	600
2+892 GINN RD. RT.	90°	RESIDENTIAL	0.730	5	0.65	193	212	0.254	0.279	600
4+460 COLLECTOR NO.5	90°	FLAT COMMERCIAL	6.000	5	0.35	193	212	1.126	1.237	900
4+520 COLLECTOR NO.5	90°	FLAT COMMERCIAL	6.000	5	0.35	193	212	1.126	1.237	900
5+227 COLLECTOR NO.5	90°	STEEP RESIDENTIAL	1.210	5	0.55	193	212	0.357	0.392	600
6+347 COLLECTOR NO.6	90°	FLAT WOODED	16.770	5	0.30	193	212	2.697	2.963	1200

STRUCTURE LOCATION	SKEW	LAND USE	AREA (ha)	Tc MIN.	C	mm/h I-50	mm/h I-100	Q-m³/S Q-50	Q-m³/S Q-100	Q-50 STRUCTURE
6+662 RAMP B	90°	BARE EARTH	4.420	5	0.60	193	212	1.422	1.562	1200
7+512 BARBER HILL	90°	RESIDENTIAL/WOODED	2.880	5	0.30	193	212	0.463	0.509	750
7+580 BARBER HILL	90°	RESIDENTIAL/WOODED	1.590	5	0.30	193	212	0.256	0.281	600
9+309.604 BUNKER HILL	90°	RESIDENTIAL/WOODED	1.600	5	0.30	193	212	0.257	0.283	600
10+351 MAINLINE	90°	COMERICAL PAVED	1.220	5	0.80	193	212	0.523	0.575	900
10+380.647 MAINLINE	68° LT.	RESIDENTIAL/COMM. PAVED	1.620	8	0.51	175	193	0.402	0.443	750
10+450 MAINLINE	90°	ROADWAY/RES./WOOODED	9.680	6	0.54	185	200	2.686	2.904	1500
10+510 MAINLINE	90°	RESIDENTIAL	2.000	5	0.40	193	212	0.429	0.471	600
10+580 MAINLINE	90°	RESIDENTIAL	2.500	5	0.40	193	212	0.536	0.589	600
10+642 MAINLINE	90°	ROADWAY/RESIDENTIAL	0.420	5	0.45	193	212	0.101	0.111	600
10+737 MAINLINE	90°	ROADWAY/RESIDENTIAL	0.520	5	0.45	193	212	0.125	0.138	600
10+860 MAINLINE	90°	ROADWAY/RES./GRASSED AREA	4.220	5	0.58	193	212	1.312	1.441	1200
10+890 MAINLINE	90°	ROADWAY/RESIDENTIAL	4.040	5	0.53	193	212	1.148	1.261	1050
11+660 MAINLINE	90°	SPRING	0.850	5	0.85	193	212	0.387	0.425	600
11+713 MAINLINE	0°	ROADWAY/RESIDENTIAL	5.230	5	0.40	193	212	1.115	1.225	1050
11+720 MAINLINE	0°	ROADWAY/RESIDENTIAL	5.230	5	0.40	193	212	1.115	1.225	1050

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DRAINAGE MAPS

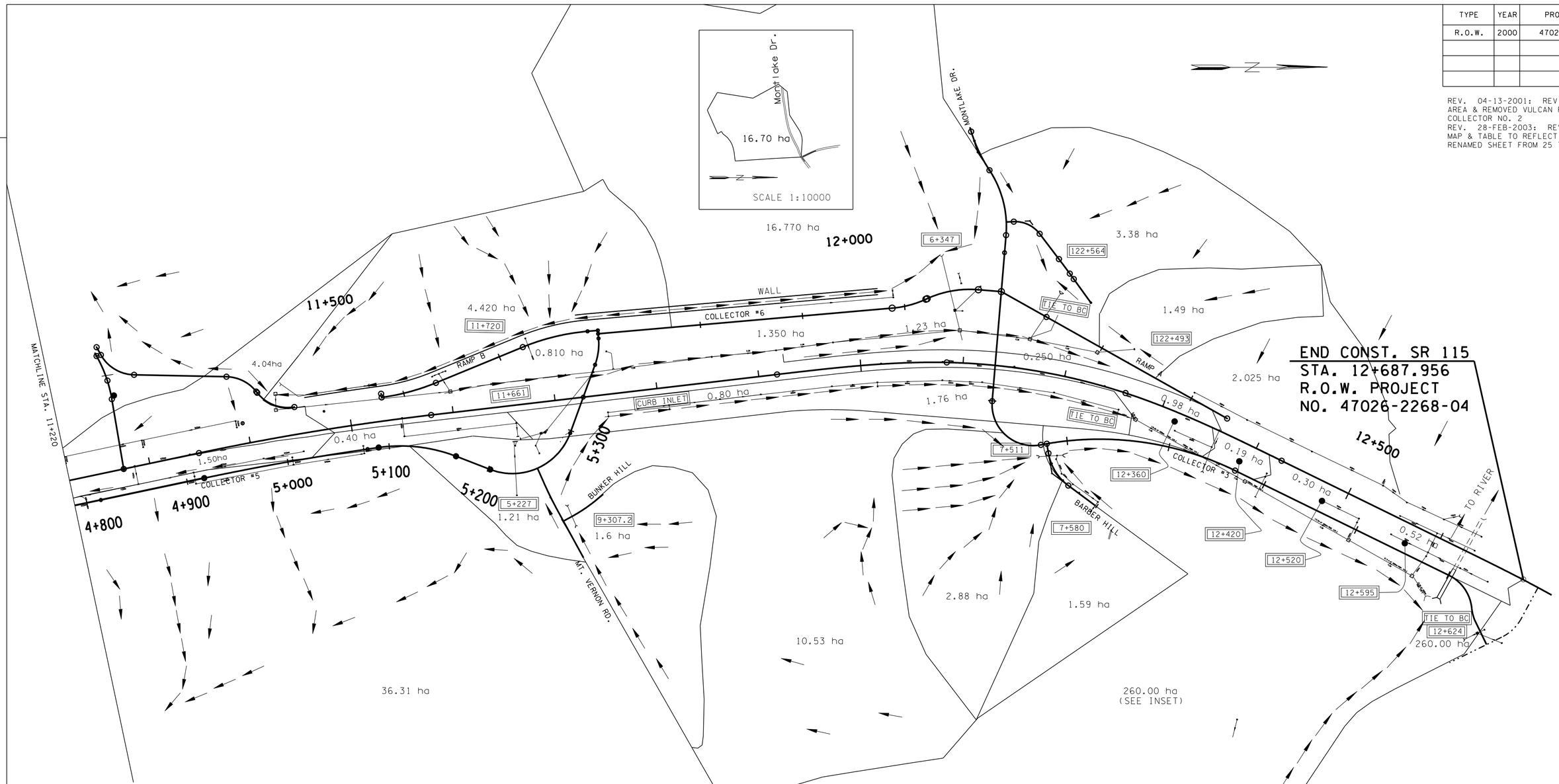
STA. 10+000 TO STA. 11+220

SCALE: 1:2000

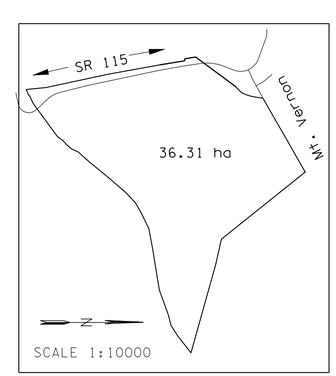
FILE NO. ---

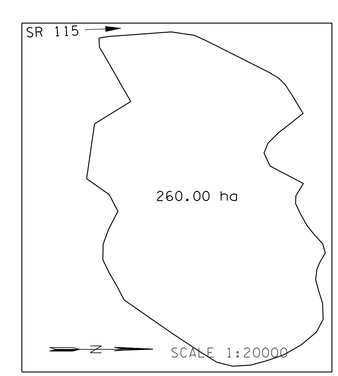
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	24

REV. 04-13-2001: REVISED DRAINAGE AREA & REMOVED VULCAN RD. & COLLECTOR NO. 2
REV. 28-FEB-2003: REVISED DRAINAGE MAP & TABLE TO REFLECT NEW ALIGNMENT. RENAMED SHEET FROM 25 TO 24.



STRUCTURE LOCATION	SKEW	LAND USE	AREA (ha)	Tc MIN.	C	mm/h		Q-m³/S		Q-50
						I-50	I-100	Q-50	Q-100	STRUCTURE
12+360 MAINLINE	90°	ROADWAY/RES./WOODED	0.980	5	0.78	193	212	0.408	0.448	750
12+420 MAINLINE	90°	ROADWAY	0.190	5	0.85	193	212	0.087	0.095	450
12+520 MAINLINE	90°	ROADWAY	0.300	5	0.85	193	212	0.137	0.150	450
12+595 MAINLINE	90°	ROADWAY	0.520	5	0.85	193	212	0.237	0.260	600
122+493 RAMP A	56° LT.	WOODED	1.490	5	0.30	193	212	0.240	0.263	600
122+564 RAMP A	90°	RESIDENTIAL/WOODED	3.630	5	0.35	193	212	0.681	0.748	900
10+881.4 MAINLINE	89° RT	RESIDENTIAL	77.010	-	-	-	-	5.258	6.600	2440 X 1830 BC
11+713 MAINLINE	45° RT	RESIDENTIAL/WOODED	1.610	5	0.44	193	212	0.379	0.417	1200
12+626.430 MAINLINE	87° LT	RESIDENTIAL/WOODED	303.680	-	-	-	-	13.097	17.000	3048 X 3048 BC
STA. 0+000.000 TO STA 0+028.915	0°	ROADWAY/WOODED	1.610	5	0.6	193	212	0.518	0.569	600
STA. 0+028.915 TO STA. 0+093.531	45°	ROADWAY/WOODED	1.610	5	0.6	193	212	0.518	0.569	EX. 1500 X 1500 BC
STA. 0+093.531 TO STA. 0+336.000	0°	WOODED/BENCHING	6.840	5	0.6	193	212	2.200	2.417	1200
STA 0+336.000 TO STA. 0+459.201	0°	WOODED/BENCHING	8.19	5	0.2	193	212	0.878	0.965	1500
STA. 0+459.201 TO STA. 0+596.016	0°	WOODED/BENCHING	26.19	6	0.2	188	200	2.735	2.910	1800
STA. 0+596.016 TO STA. 0+664.020	45°	WOODED/BENCHING	32.29	8	0.2	175	187	3.140	3.354	1850 X 1850 BC
STA. 0+664.020 TO STA. 0+987.000	0°	RESIDENTIAL/WOODED	47.39	9	0.2	166	183	4.370	4.820	1800





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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DRAINAGE MAPS

STA. 11+220 TO STA. 12+700.826

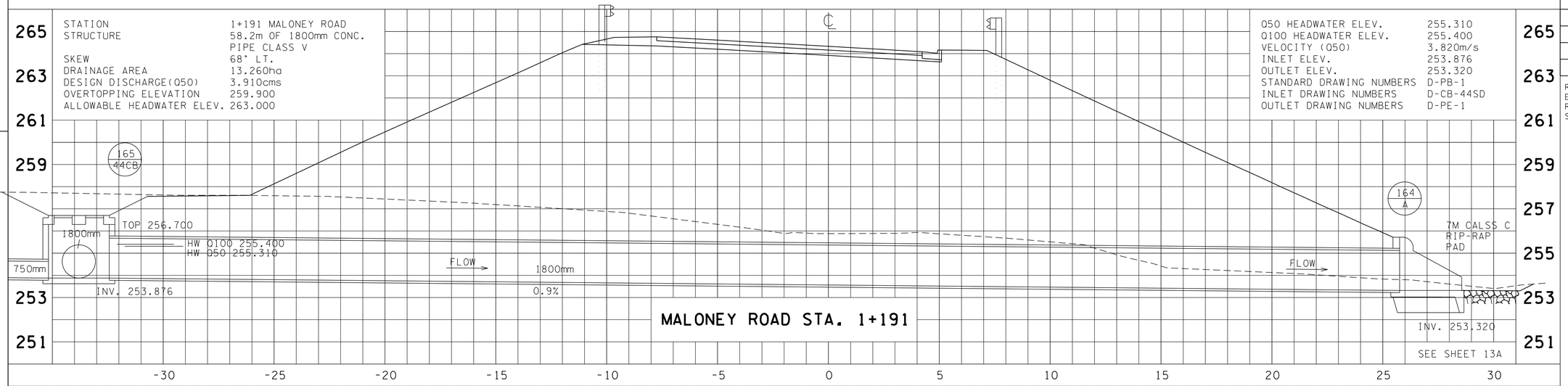
SCALE: 1:2000

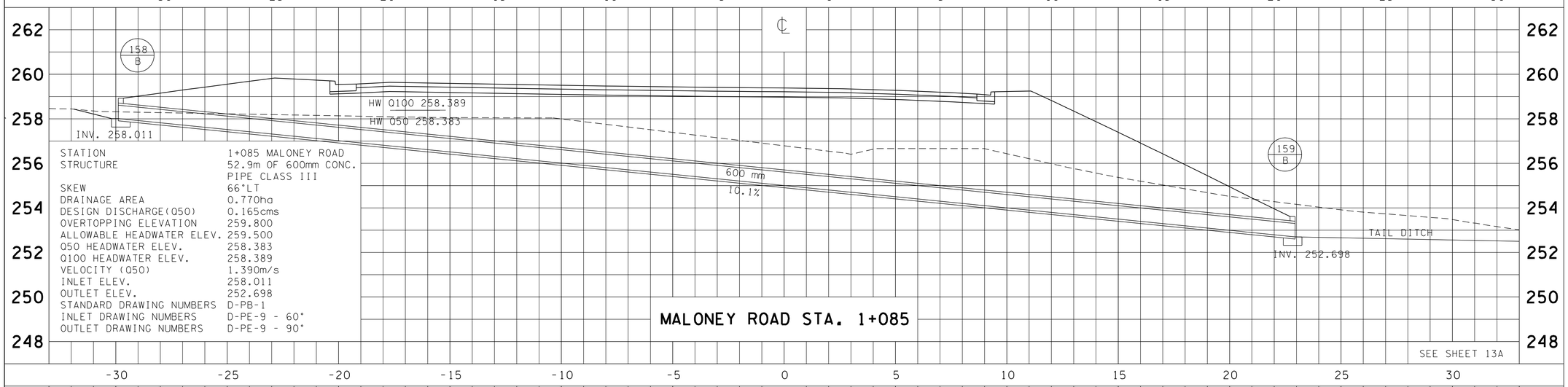
DESIGN DIVISION

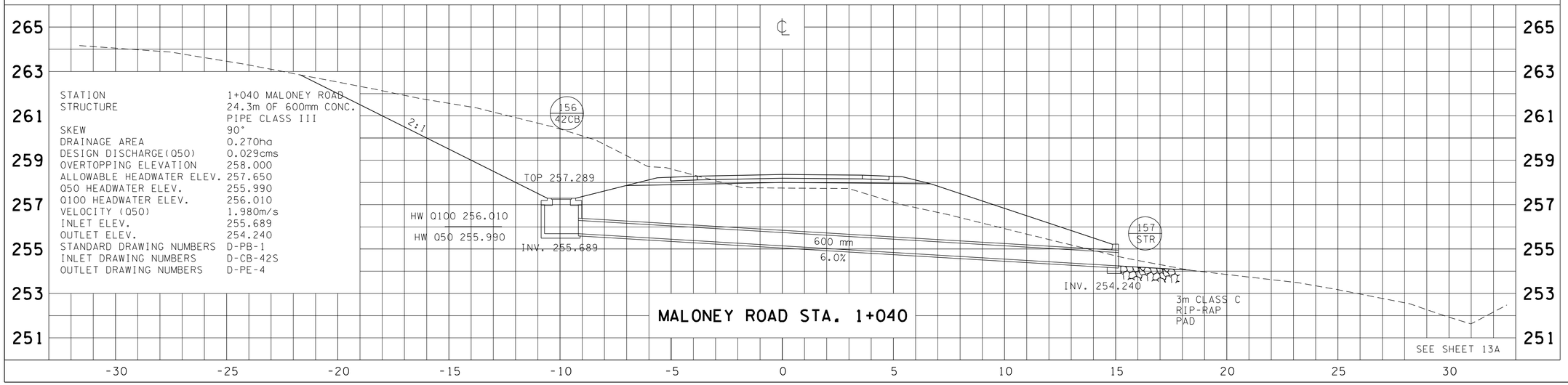
FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	25
CONST.	2016	47026-3279-14	25

REV. 28-FEB-2003: REVISED OVERTOPPING ELEV. FOR PIPE SECTION STA. 1+046.
REV. 22-AUG.-2014: REVISED CULVERT SECTIONS STA. 1+046,1+091,1+193.







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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

MALONEY RD. STA. 1+040
MALONEY RD. STA. 1+085
MALONEY RD. STA. 1+191

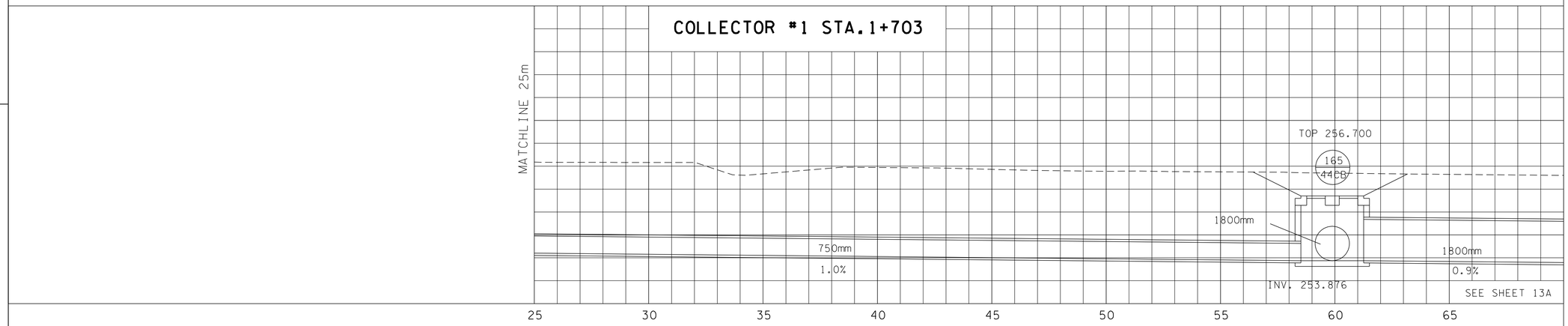
SCALE 1:100

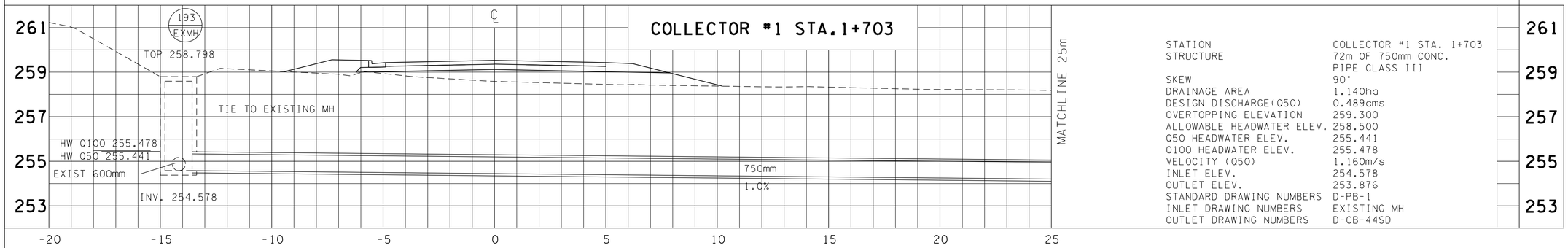
DESIGN DIVISION

FILE NO. ---

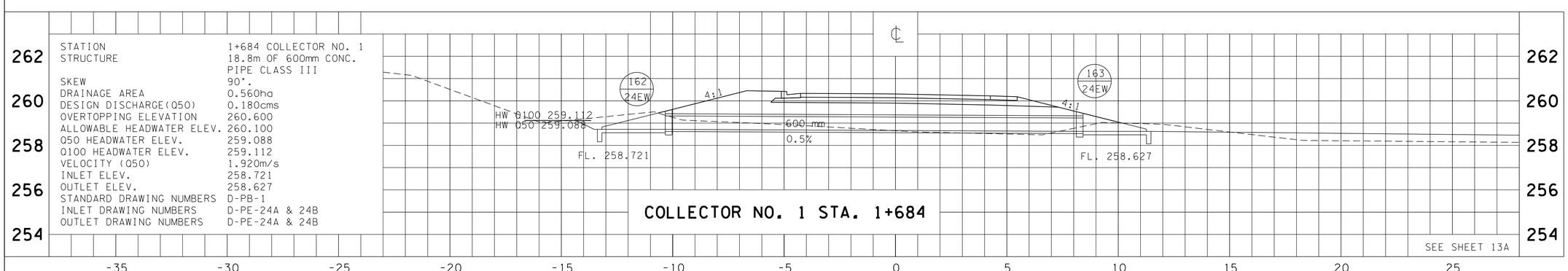
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	26
CONST.	2016	47026-3279-14	26

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK.
REV. 22-AUG.-2014: REVISED CULVERT SECTIONS STA. 1+684,1+703.

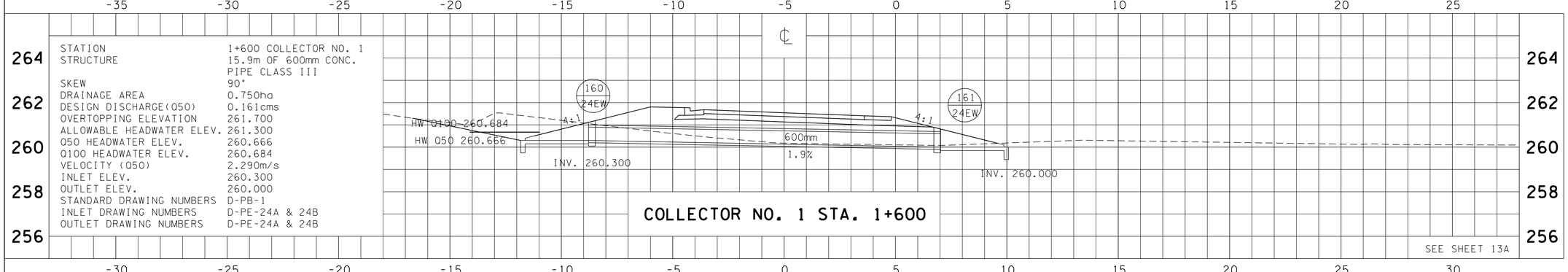




STATION	COLLECTOR #1 STA. 1+703
STRUCTURE	72m OF 750mm CONC. PIPE CLASS III
SKEW	90°
DRAINAGE AREA	1.140ha
DESIGN DISCHARGE(Q50)	0.489cms
OVERTOPPING ELEVATION	259.300
ALLOWABLE HEADWATER ELEV.	258.500
Q50 HEADWATER ELEV.	255.441
Q100 HEADWATER ELEV.	255.478
VELOCITY (Q50)	1.160m/s
INLET ELEV.	254.578
OUTLET ELEV.	253.876
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	EXISTING MH
OUTLET DRAWING NUMBERS	D-CB-44SD



STATION	1+684 COLLECTOR NO. 1
STRUCTURE	18.8m OF 600mm CONC. PIPE CLASS III
SKEW	90°.
DRAINAGE AREA	0.560ha
DESIGN DISCHARGE(Q50)	0.180cms
OVERTOPPING ELEVATION	260.600
ALLOWABLE HEADWATER ELEV.	260.100
Q50 HEADWATER ELEV.	259.088
Q100 HEADWATER ELEV.	259.112
VELOCITY (Q50)	1.920m/s
INLET ELEV.	258.721
OUTLET ELEV.	258.627
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-PE-24A & 24B
OUTLET DRAWING NUMBERS	D-PE-24A & 24B



STATION	1+600 COLLECTOR NO. 1
STRUCTURE	15.9m OF 600mm CONC. PIPE CLASS III
SKEW	90°
DRAINAGE AREA	0.750ha
DESIGN DISCHARGE(Q50)	0.161cms
OVERTOPPING ELEVATION	261.700
ALLOWABLE HEADWATER ELEV.	261.300
Q50 HEADWATER ELEV.	260.666
Q100 HEADWATER ELEV.	260.684
VELOCITY (Q50)	2.290m/s
INLET ELEV.	260.300
OUTLET ELEV.	260.000
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-PE-24A & 24B
OUTLET DRAWING NUMBERS	D-PE-24A & 24B

TENNESSEE METRIC D.O.T.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

COLLECTOR #1 STA. 1+600
COLLECTOR #1 STA. 1+684
COLLECTOR #1 STA. 1+703

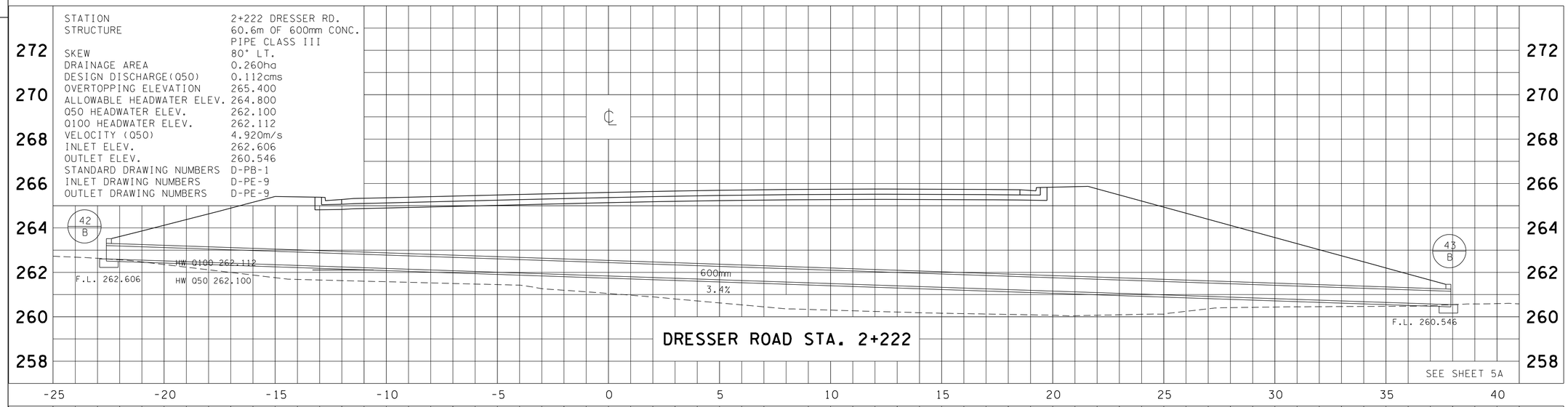
SCALE 1:100

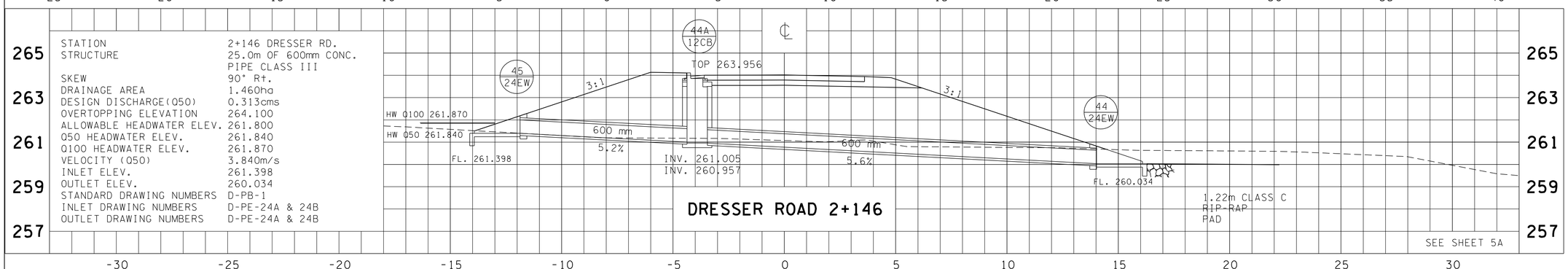
DESIGN DIVISION

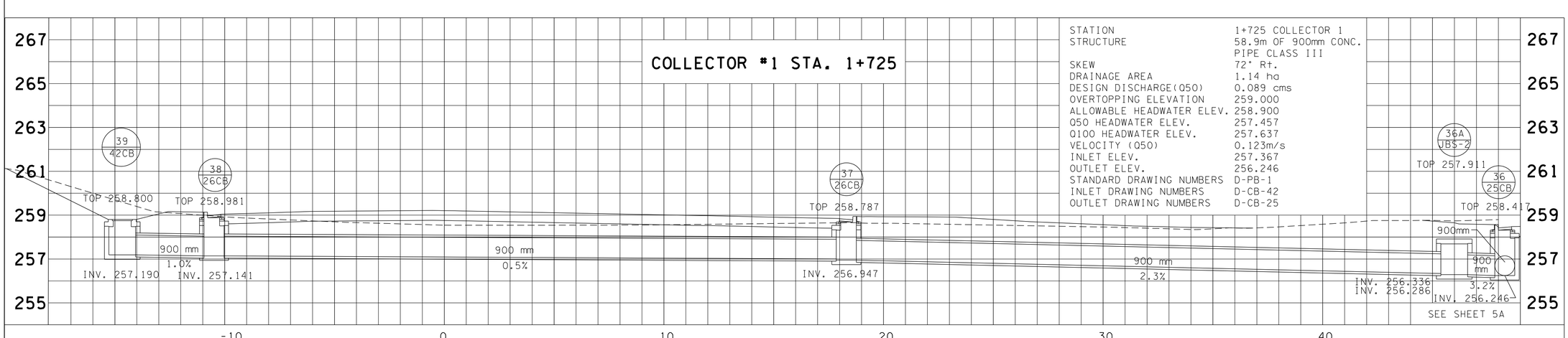
FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	27
CONST.	2016	47026-3279-14	27

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. REVISED PIPE SECTION STA. 2+152.5 & STA. 2+222.
REV. 22-AUG.-2014: REVISED CULVERT SECTIONS TO REFLECT ROAD WIDING STA. 1+727, 2+222.







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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

COLLECTOR #1 STA. 1+725
DRESSER RD. STA. 2+146
DRESSER RD. STA. 2+222

SCALE 1:100

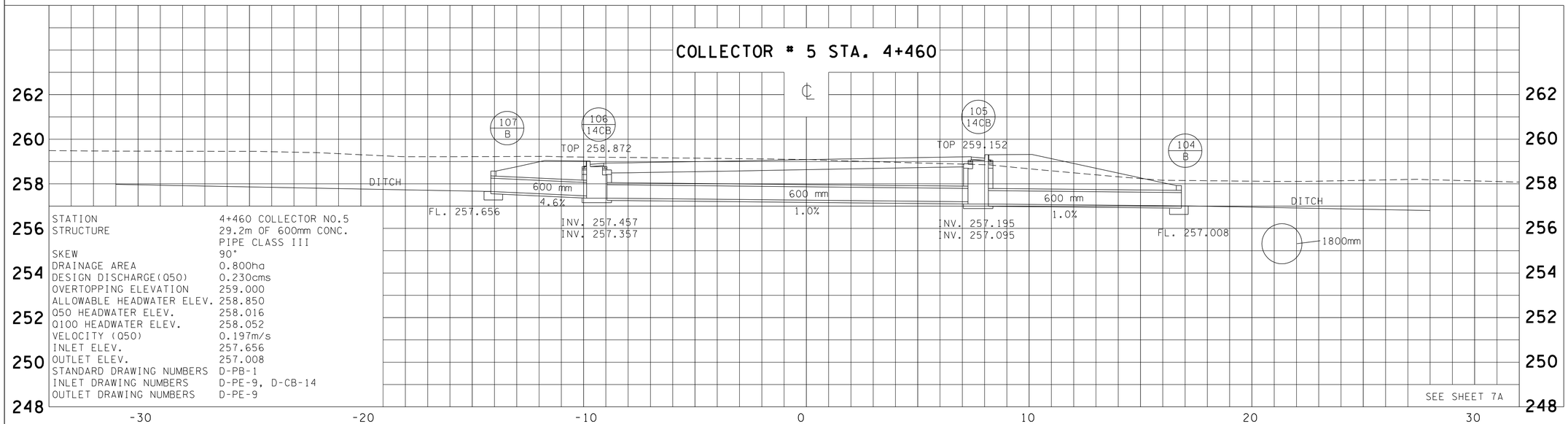
DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	28
CONST.	2016	47026-3279-14	28

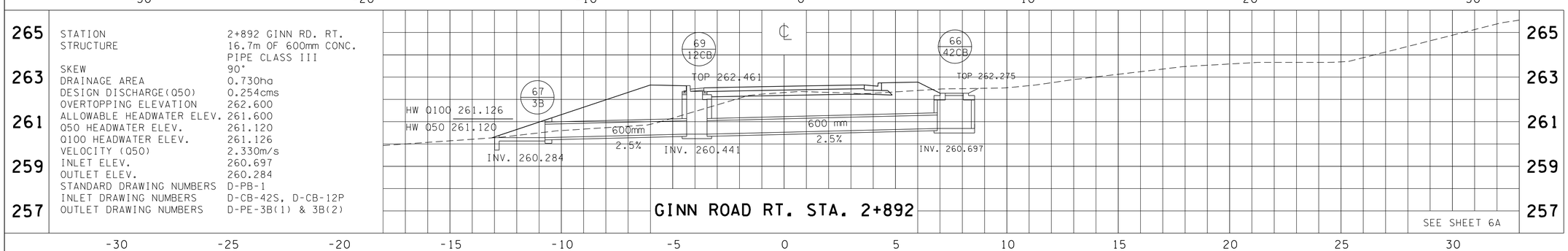
REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. ADDED PIPE SECTION STA. 4+460 COL. #5.
REV. 22-AUG.-2014: REVISED CULVERT SECTIONS STA. 4+460.

COLLECTOR # 5 STA. 4+460



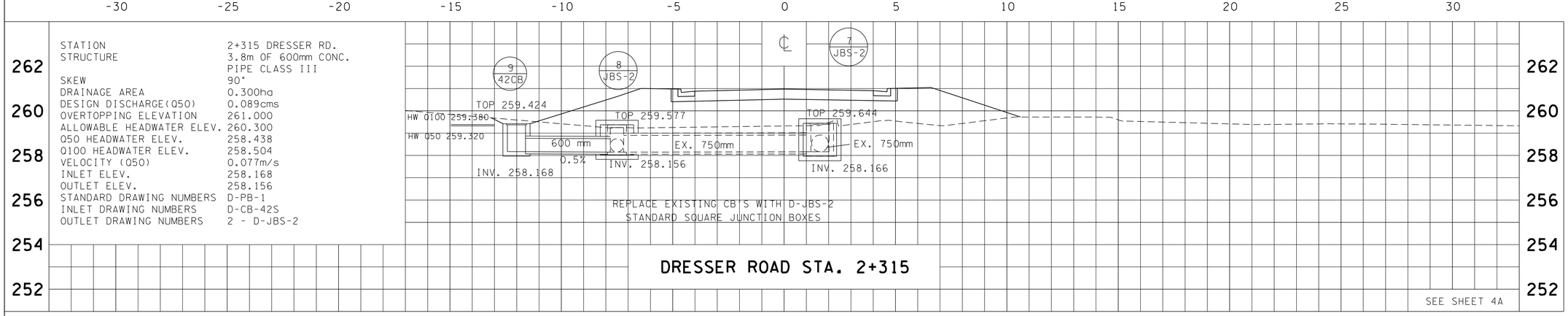
STATION	4+460 COLLECTOR NO.5
STRUCTURE	29.2m OF 600mm CONC. PIPE CLASS III
SKEW	90°
DRAINAGE AREA	0.800ha
DESIGN DISCHARGE(Q50)	0.230cms
OVERTOPPING ELEVATION	259.000
ALLOWABLE HEADWATER ELEV.	258.850
Q50 HEADWATER ELEV.	258.016
Q100 HEADWATER ELEV.	258.052
VELOCITY (Q50)	0.197m/s
INLET ELEV.	257.656
OUTLET ELEV.	257.008
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-PE-9, D-CB-14
OUTLET DRAWING NUMBERS	D-PE-9

GINN ROAD RT. STA. 2+892



STATION	2+892 GINN RD. RT.
STRUCTURE	16.7m OF 600mm CONC. PIPE CLASS III
SKEW	90°
DRAINAGE AREA	0.730ha
DESIGN DISCHARGE(Q50)	0.254cms
OVERTOPPING ELEVATION	262.600
ALLOWABLE HEADWATER ELEV.	261.600
Q50 HEADWATER ELEV.	261.120
Q100 HEADWATER ELEV.	261.126
VELOCITY (Q50)	2.330m/s
INLET ELEV.	260.697
OUTLET ELEV.	260.284
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-CB-42S, D-CB-12P
OUTLET DRAWING NUMBERS	D-PE-3B(1) & 3B(2)

DRESSER ROAD STA. 2+315



STATION	2+315 DRESSER RD.
STRUCTURE	3.8m OF 600mm CONC. PIPE CLASS III
SKEW	90°
DRAINAGE AREA	0.300ha
DESIGN DISCHARGE(Q50)	0.089cms
OVERTOPPING ELEVATION	261.000
ALLOWABLE HEADWATER ELEV.	260.300
Q50 HEADWATER ELEV.	258.438
Q100 HEADWATER ELEV.	258.504
VELOCITY (Q50)	0.077m/s
INLET ELEV.	258.168
OUTLET ELEV.	258.156
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-CB-42S
OUTLET DRAWING NUMBERS	2 - D-JBS-2

TENNESSEE METRIC D.O.T.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

DRESSER RD. STA. 2+315
GINN RD. RT. STA. 2+892
COLLECTOR #5 STA. 4+460

SCALE 1:100

DESIGN DIVISION

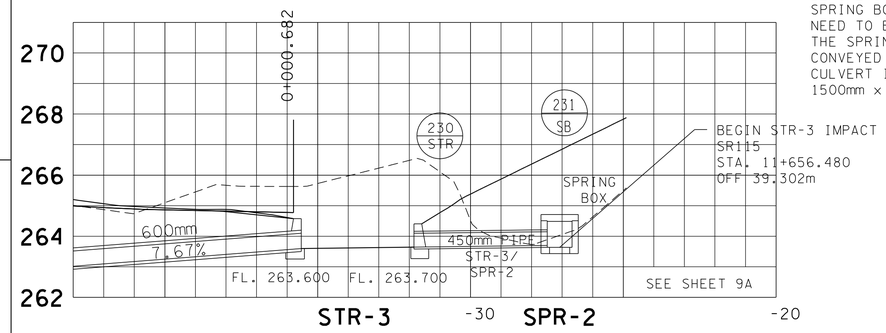
FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	29
CONST.	2016	47026-3279-14	29

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. ADDED PIPE SECTIONS STA. 4+520 & STA. 5+227 COL. #5.
REV. 22-AUG.-2014: REVISED CULVERT SECTION STA. 5+227.

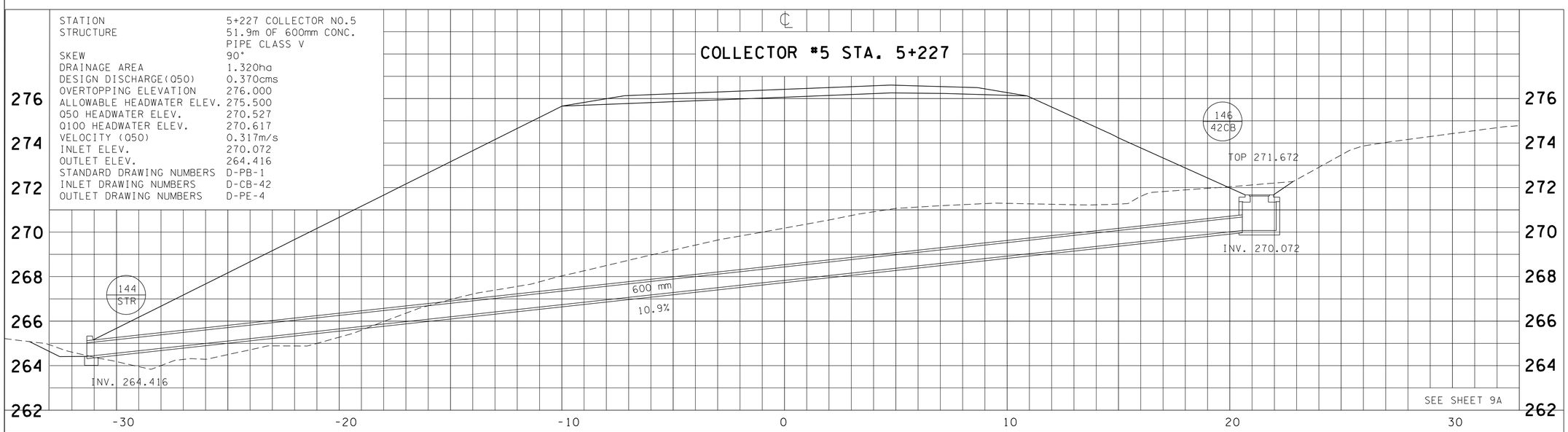
BEFORE INSTALLATION OF THE SPRING BOXES, THE SPRING HEADS NEED TO BE FIELD VERIFIED. THE SPRING WATERS SHOULD BE CONVEYED BY SPRING BOX AND CULVERT INTO THE EXISTING 1500mm x 1500mm CULVERT

COLLECTOR #5 STA. 5+229.5



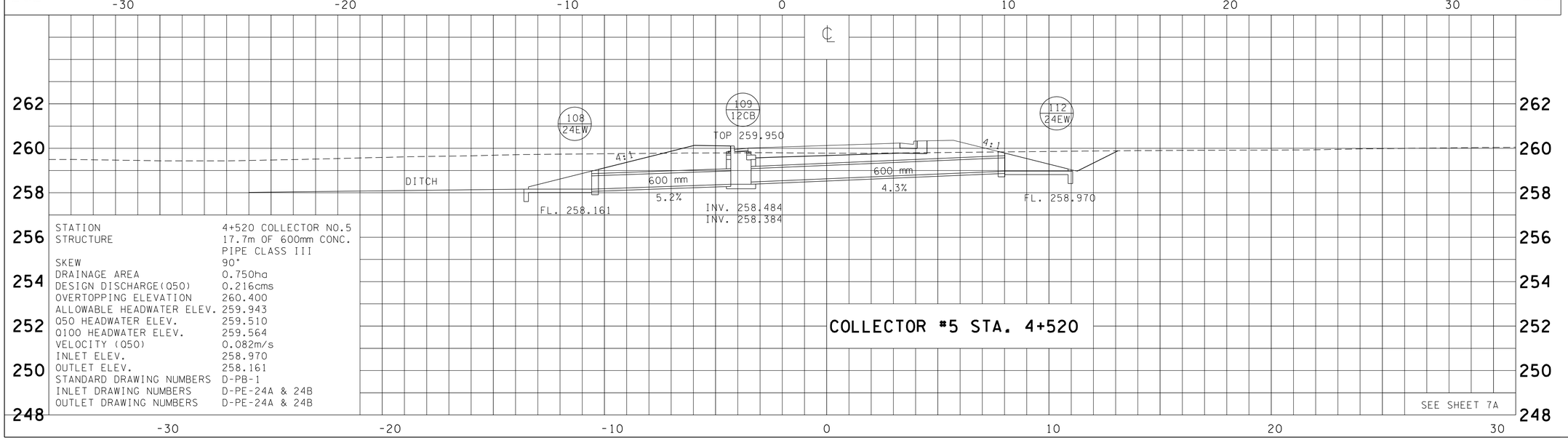
COLLECTOR #5 STA. 5+227

STATION	5+227 COLLECTOR NO.5
STRUCTURE	51.9m OF 600mm CONC. PIPE CLASS V
SKEW	90°
DRAINAGE AREA	1.320ha
DESIGN DISCHARGE(Q50)	0.370cms
OVERTOPPING ELEVATION	276.000
ALLOWABLE HEADWATER ELEV.	275.500
Q50 HEADWATER ELEV.	270.527
Q100 HEADWATER ELEV.	270.617
VELOCITY (Q50)	0.317m/s
INLET ELEV.	270.072
OUTLET ELEV.	264.416
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-CB-42
OUTLET DRAWING NUMBERS	D-PE-4



COLLECTOR #5 STA. 4+520

STATION	4+520 COLLECTOR NO.5
STRUCTURE	17.7m OF 600mm CONC. PIPE CLASS III
SKEW	90°
DRAINAGE AREA	0.750ha
DESIGN DISCHARGE(Q50)	0.216cms
OVERTOPPING ELEVATION	260.400
ALLOWABLE HEADWATER ELEV.	259.943
Q50 HEADWATER ELEV.	259.510
Q100 HEADWATER ELEV.	259.564
VELOCITY (Q50)	0.082m/s
INLET ELEV.	258.970
OUTLET ELEV.	258.161
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-PE-24A & 24B
OUTLET DRAWING NUMBERS	D-PE-24A & 24B



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

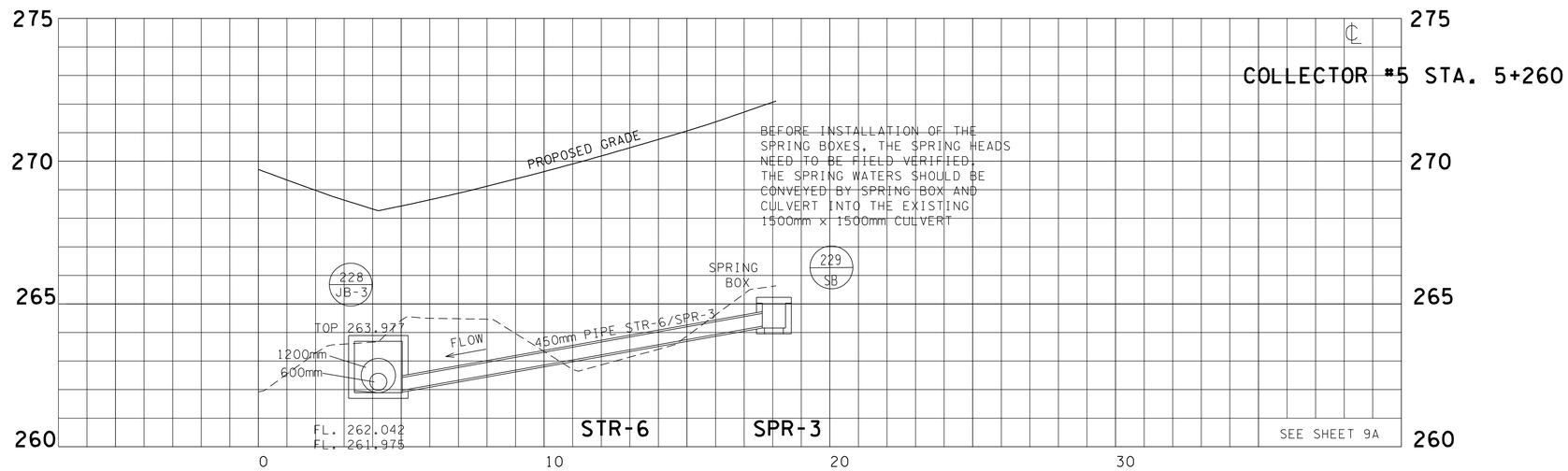
COLLECTOR #5 STA. 4+520
COLLECTOR #5 STA. 5+227
COLLECTOR #5 STA. 5+229.5

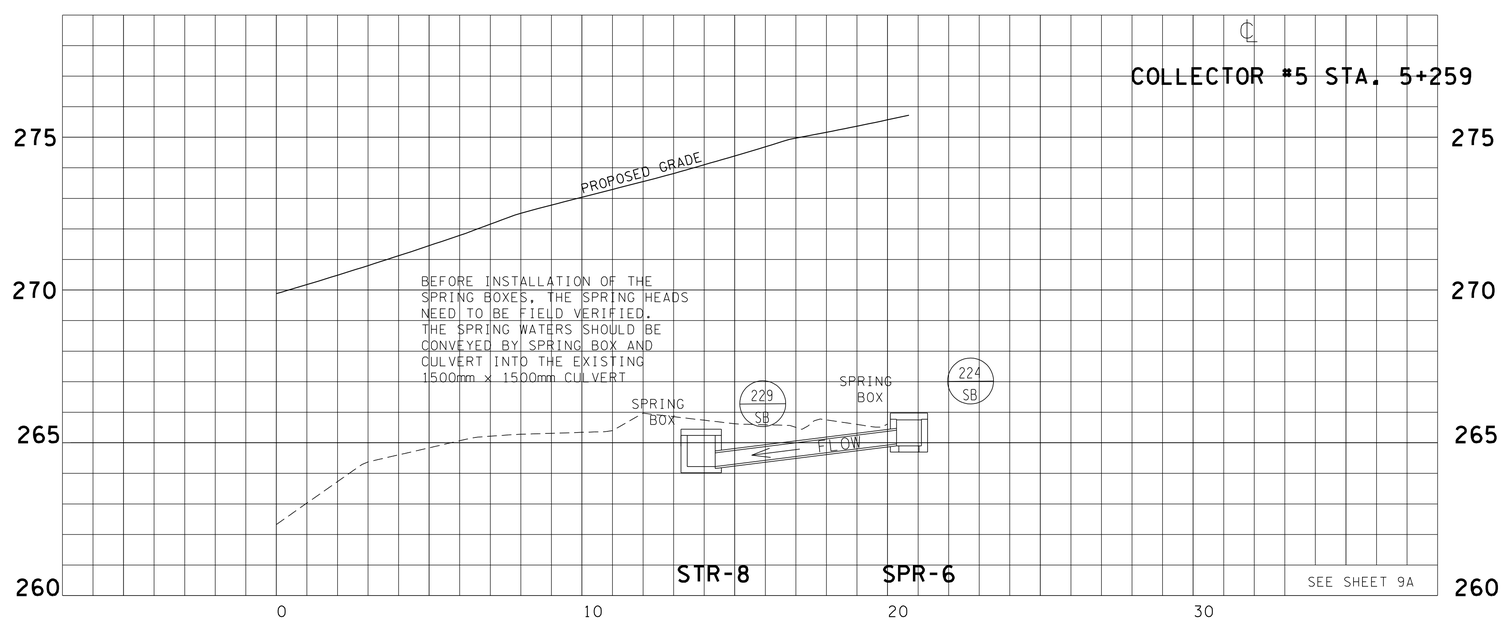
SCALE 1:100

DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	29A
CONST.	2016	47026-3279-14	29A





COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

COLLECTOR #5 STA. 5+259
COLLECTOR #5 STA. 5+260

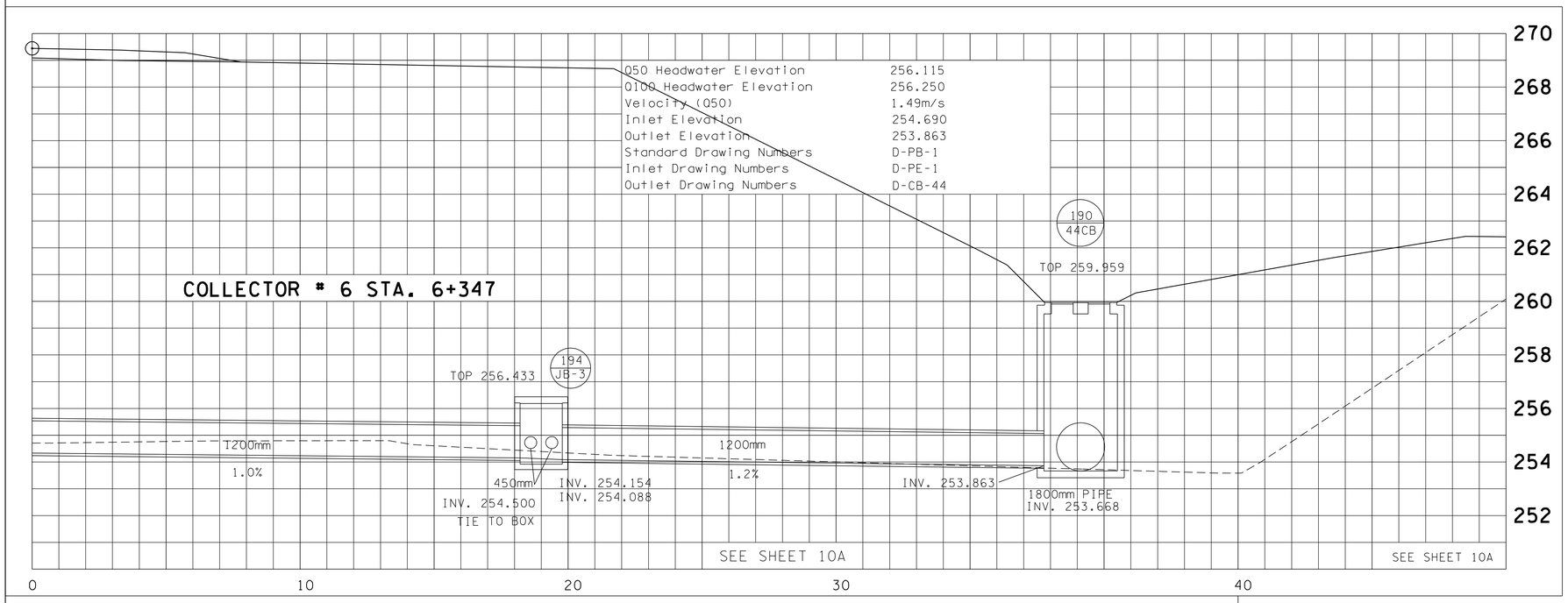
SCALE 1:100

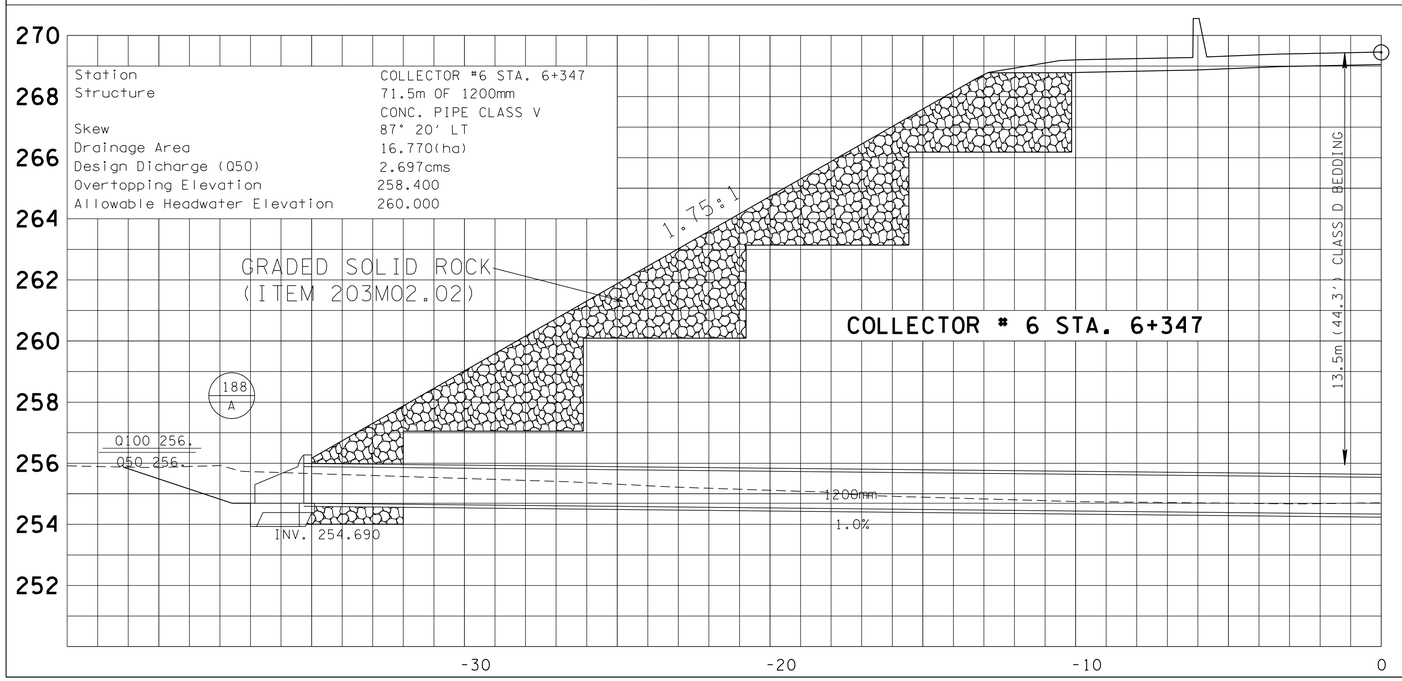
DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	30
CONST.	2016	47026-3279-14	30

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. REVISED PIPE SECTION STA. 6+350 COL. #6.





COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

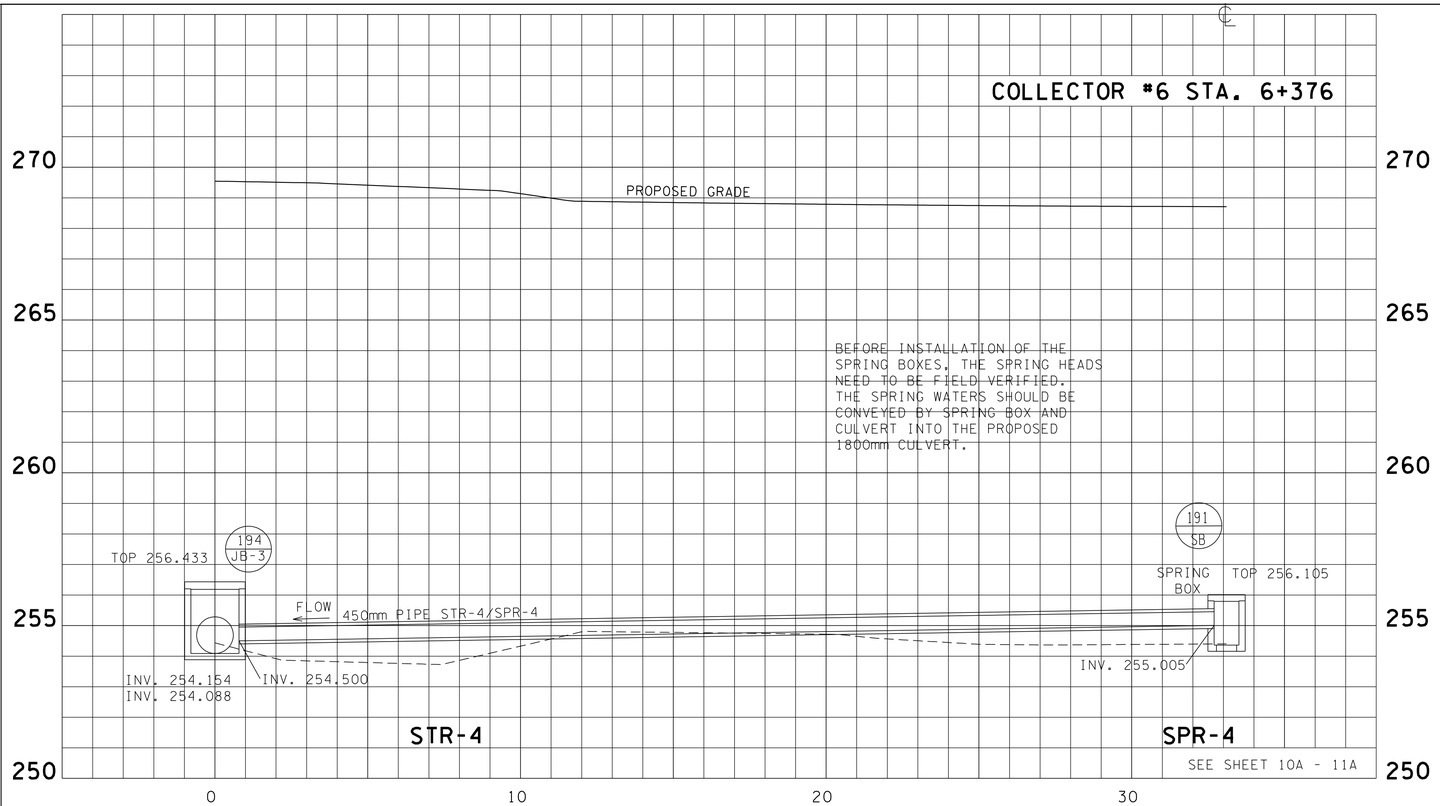
COLLECTOR #6 STA. 6+347

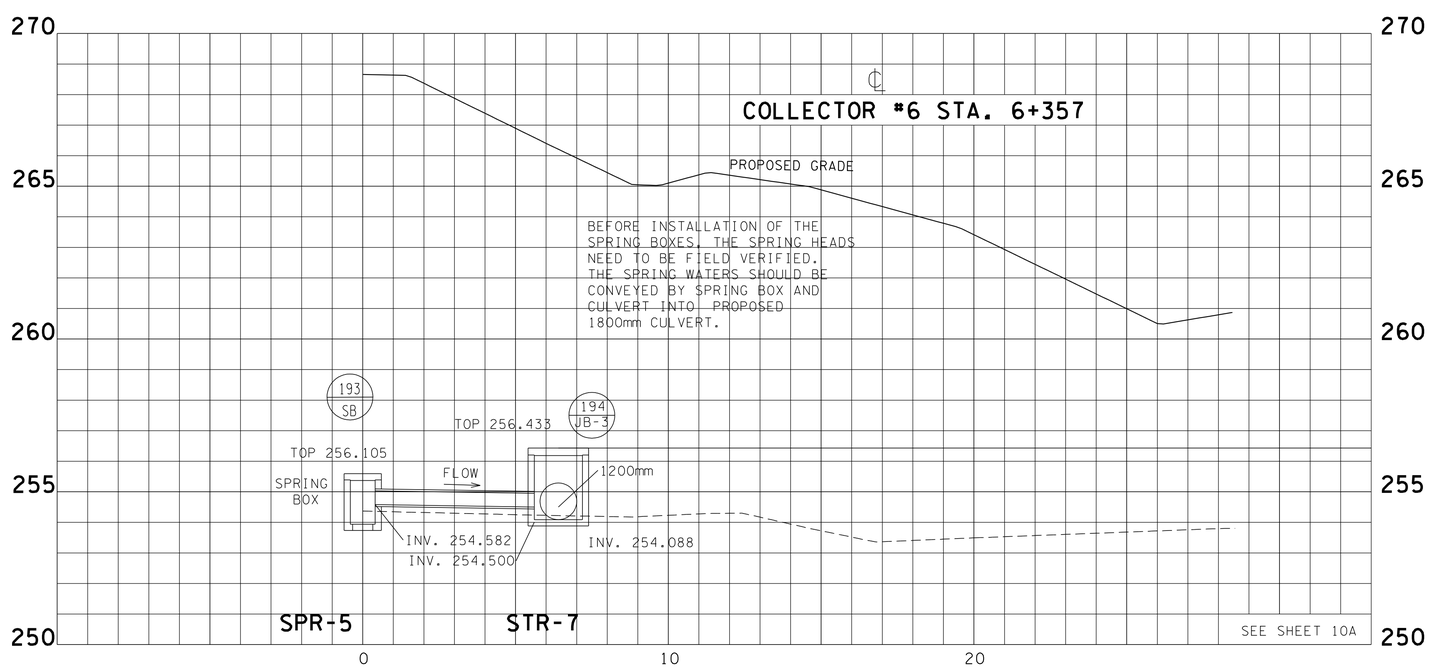
SCALE 1:100

DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	30A
CONST.	2016	47026-3279-14	30A





COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

COLLECTOR #6 STA. 6+357
COLLECTOR #6 STA. 6+376

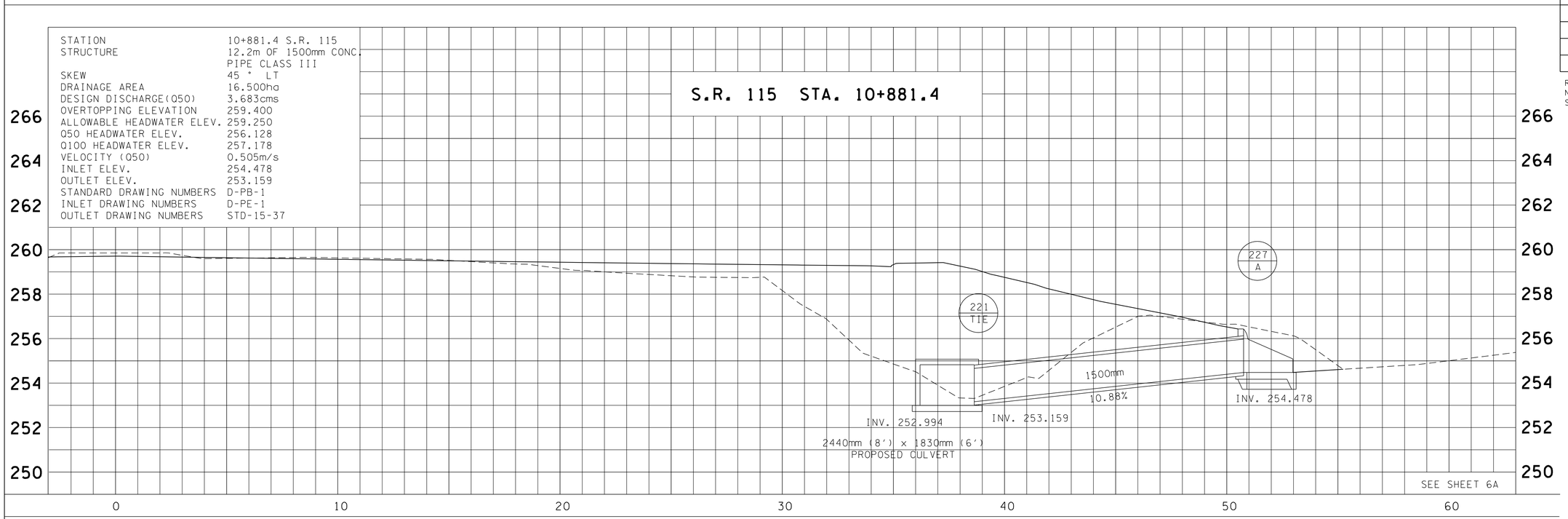
SCALE 1:100

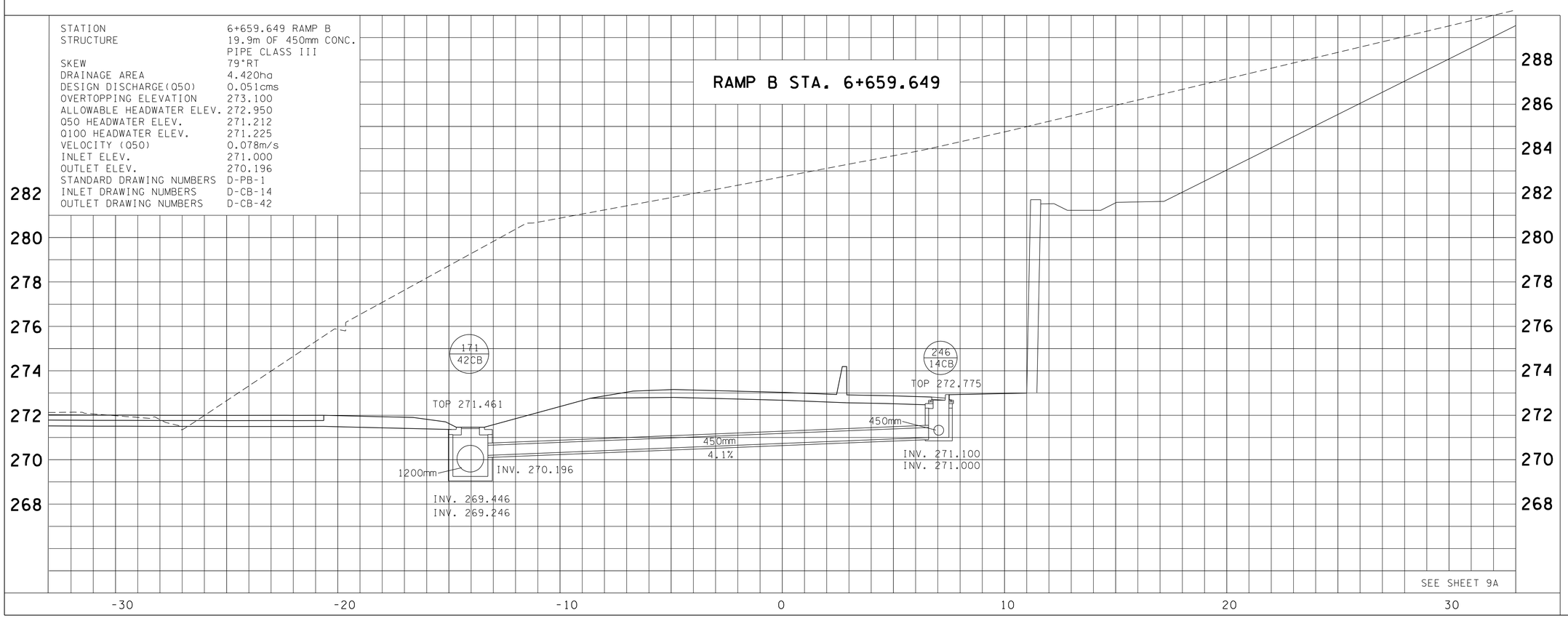
DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	31
CONST.	2016	47026-3279-14	31

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. ADDED PIPE SECTION STA. 6+662 RAMP B.





COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

RAMP B STA. 6+659.649
S.R. 115 STA. 10+909.293

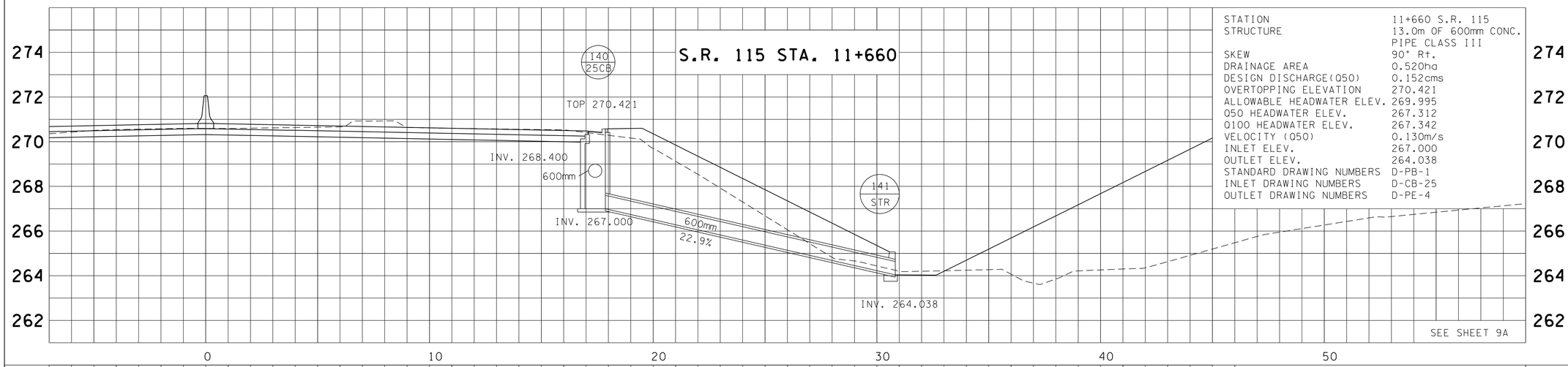
SCALE 1:100

DESIGN DIVISION

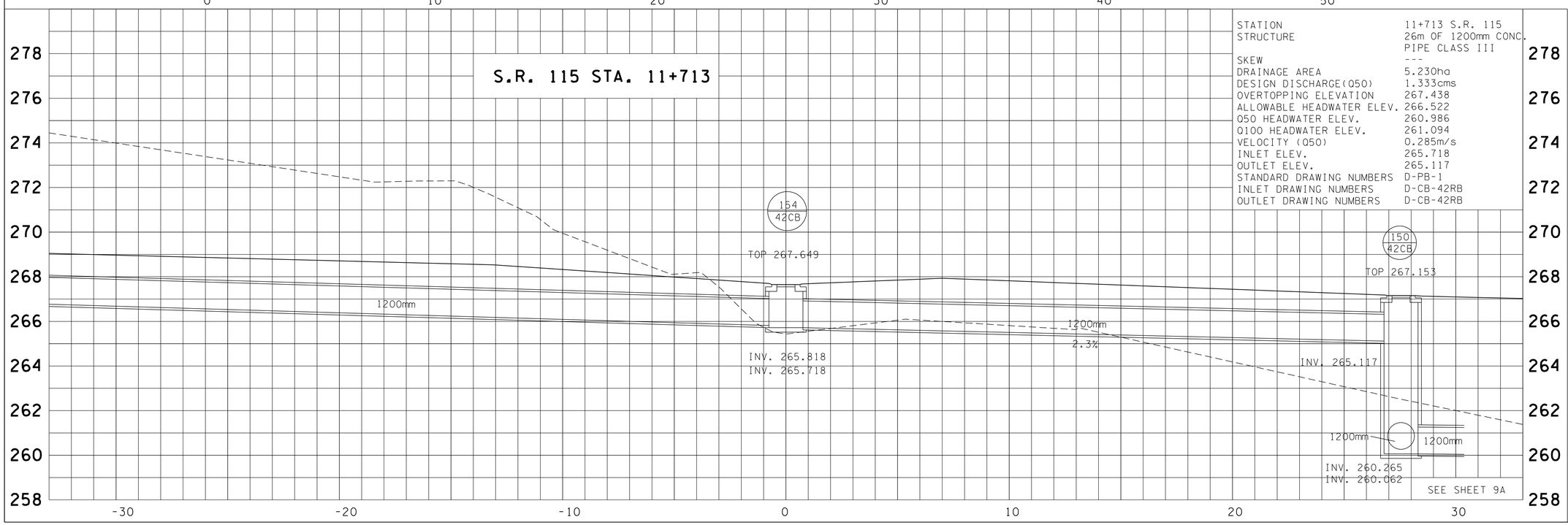
FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	32
CONST.	2016	47026-3279-14	32

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. ADDED PIPE SECTIONS STA. 11+713 & STA. 11+660 SR 115.



STATION	11+660 S.R. 115
STRUCTURE	13.0m OF 600mm CONC. PIPE CLASS III
SKEW	90° Rt.
DRAINAGE AREA	0.520ha
DESIGN DISCHARGE(Q50)	0.152cms
OVERTOPPING ELEVATION	270.421
ALLOWABLE HEADWATER ELEV.	269.995
Q50 HEADWATER ELEV.	267.312
Q100 HEADWATER ELEV.	267.342
VELOCITY (Q50)	0.130m/s
INLET ELEV.	267.000
OUTLET ELEV.	264.038
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-CB-25
OUTLET DRAWING NUMBERS	D-PE-4



STATION	11+713 S.R. 115
STRUCTURE	26m OF 1200mm CONC. PIPE CLASS III
SKEW	---
DRAINAGE AREA	5.230ha
DESIGN DISCHARGE(Q50)	1.333cms
OVERTOPPING ELEVATION	267.438
ALLOWABLE HEADWATER ELEV.	266.522
Q50 HEADWATER ELEV.	260.986
Q100 HEADWATER ELEV.	261.094
VELOCITY (Q50)	0.285m/s
INLET ELEV.	265.718
OUTLET ELEV.	265.117
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-CB-42RB
OUTLET DRAWING NUMBERS	D-CB-42RB

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

S.R 115 STA. 11+713
S.R. 115 STA.11+660

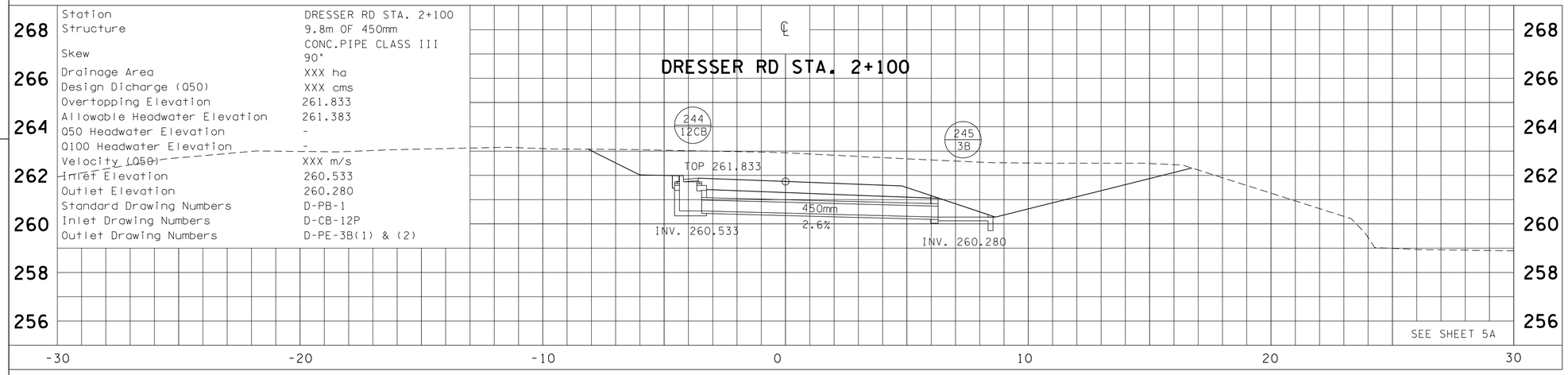
SCALE 1:100

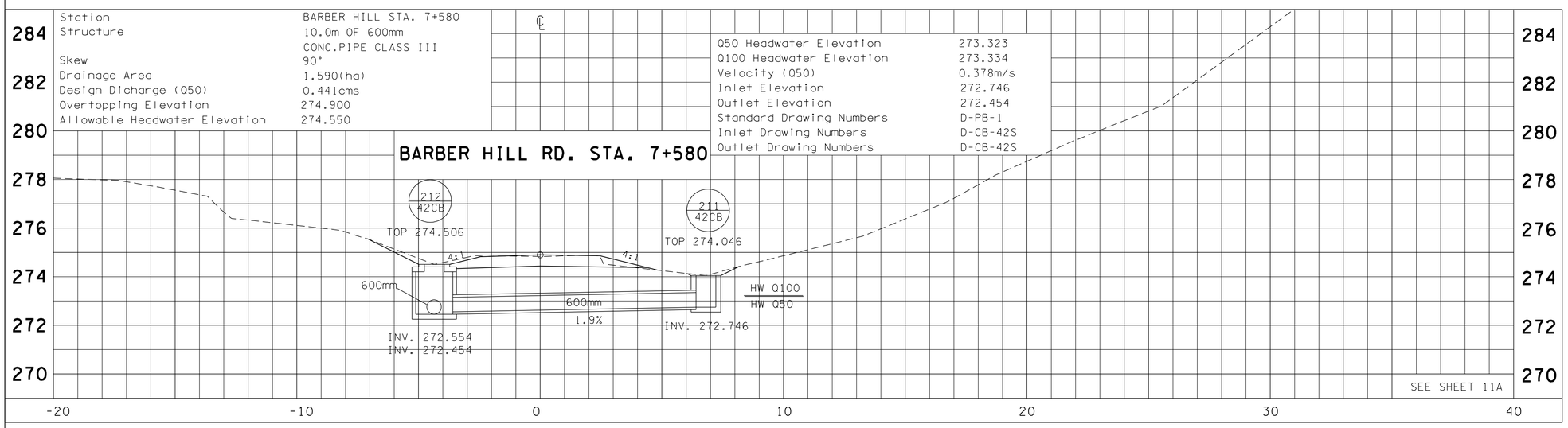
DESIGN DIVISION

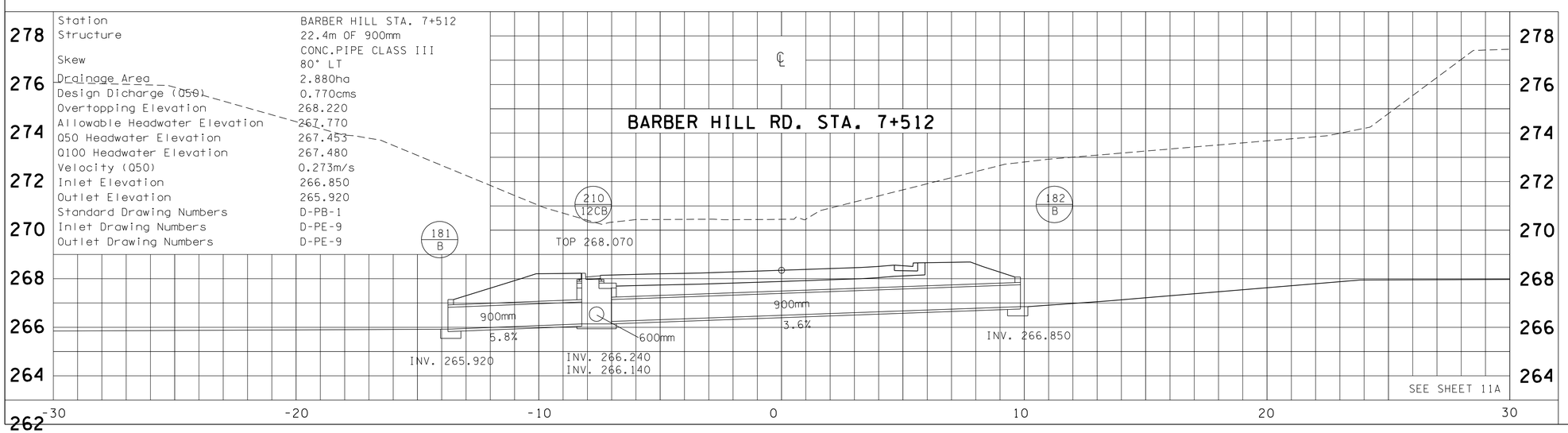
FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	33
CONST.	2016	47026-3279-14	33

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. REVISED PIPE SECTIONS STA. 7+511.1 & STA. 7+580. REV. 22-AUG.-2014: REVISED CULVERT SECTION STA. 7+512.







COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

BARBER HILL STA. 7+512
BARBER HILL STA. 7+580

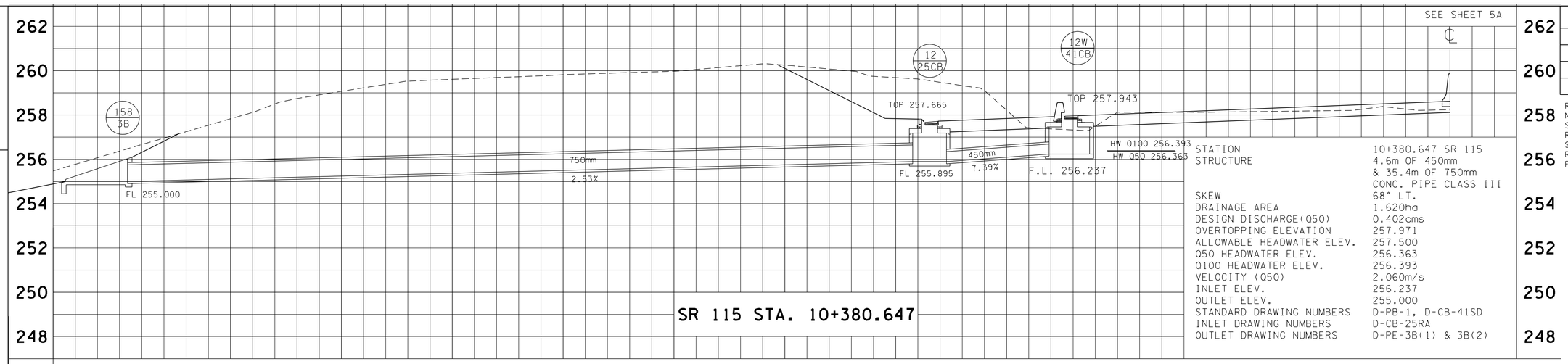
SCALE 1:100

DESIGN DIVISION

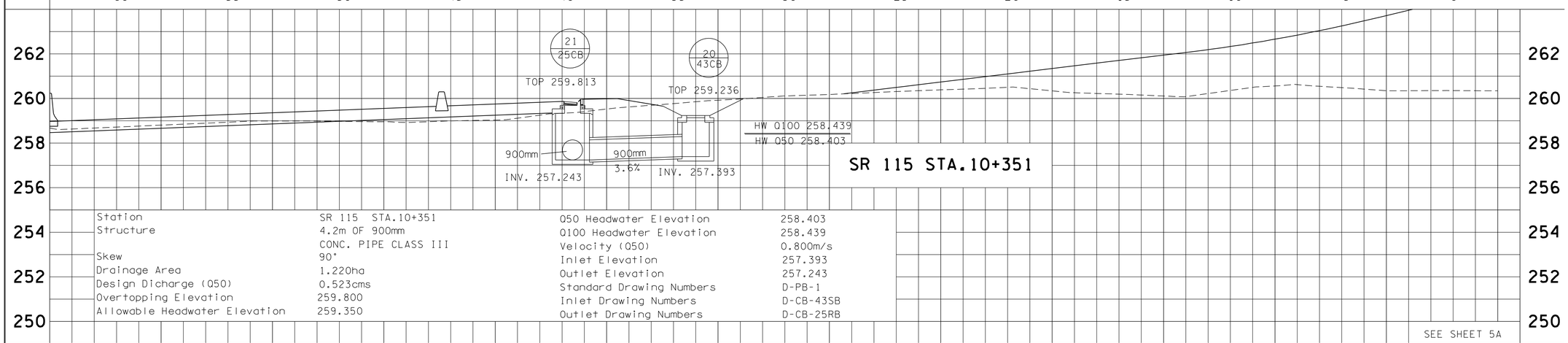
FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	34
CONST.	2016	47026-3279-14	34

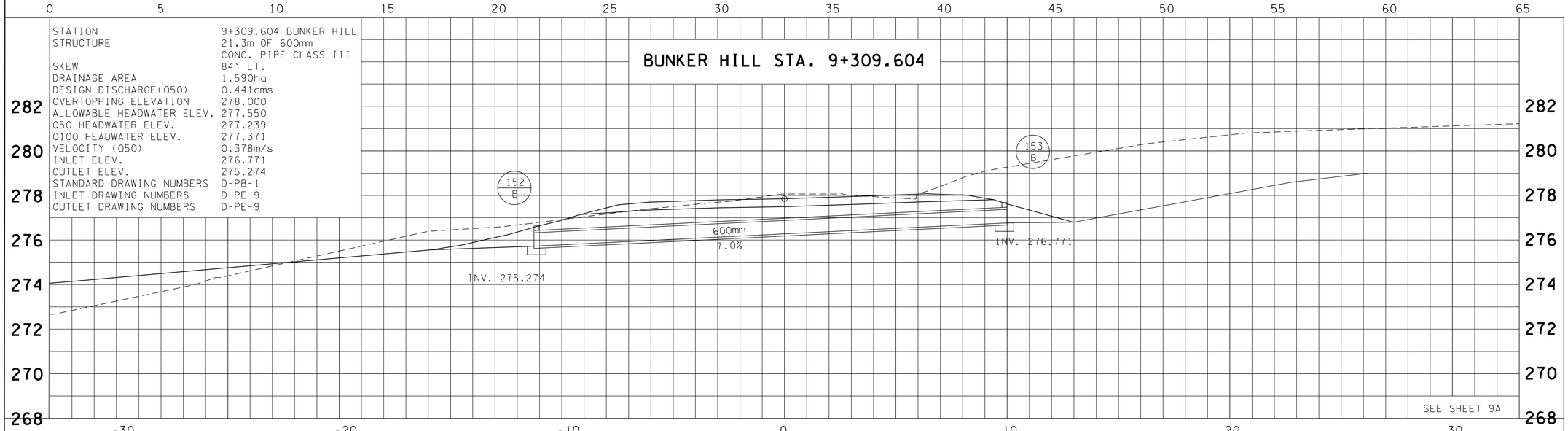
REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. ADDED PIPE SECTION STA. 9+307.20 BUNKER HILL.
REV. 22-AUG.-2014: REVISED CULVERT SECTIONS STA. 10+353, 10+380.
REV. 19-SEP-2014: MOVED PIPE 600MM PIPE FROM STA. 9+307.2 TO STA. 9+309.5.



STATION	10+380.647 SR 115
STRUCTURE	4.6m OF 450mm & 35.4m OF 750mm CONC. PIPE CLASS III
SKEW	68° LT.
DRAINAGE AREA	1.620ha
DESIGN DISCHARGE(Q50)	0.402cms
OVERTOPPING ELEVATION	257.971
ALLOWABLE HEADWATER ELEV.	257.500
Q50 HEADWATER ELEV.	256.363
Q100 HEADWATER ELEV.	256.393
VELOCITY (Q50)	2.060m/s
INLET ELEV.	256.237
OUTLET ELEV.	255.000
STANDARD DRAWING NUMBERS	D-PB-1, D-CB-41SD
INLET DRAWING NUMBERS	D-CB-25RA
OUTLET DRAWING NUMBERS	D-PE-3B(1) & 3B(2)



Station	SR 115 STA.10+351	Q50 Headwater Elevation	258.403
Structure	4.2m OF 900mm CONC. PIPE CLASS III	Q100 Headwater Elevation	258.439
		Velocity (Q50)	0.800m/s
Skew	90°	Inlet Elevation	257.393
Drainage Area	1.220ha	Outlet Elevation	257.243
Design Dicharge (Q50)	0.523cms	Standard Drawing Numbers	D-PB-1
Overtopping Elevation	259.800	Inlet Drawing Numbers	D-CB-43SB
Allowable Headwater Elevation	259.350	Outlet Drawing Numbers	D-CB-25RB



STATION	9+309.604 BUNKER HILL
STRUCTURE	21.3m OF 600mm CONC. PIPE CLASS III
SKEW	84° LT.
DRAINAGE AREA	1.590ha
DESIGN DISCHARGE(Q50)	0.441cms
OVERTOPPING ELEVATION	278.000
ALLOWABLE HEADWATER ELEV.	277.550
Q50 HEADWATER ELEV.	277.239
Q100 HEADWATER ELEV.	277.371
VELOCITY (Q50)	0.378m/s
INLET ELEV.	276.771
OUTLET ELEV.	275.274
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-PE-9
OUTLET DRAWING NUMBERS	D-PE-9

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

BUNKER HILL STA. 9+309.604
S.R. 115 STA. 10+351
S.R. 115 STA. 10+380.647

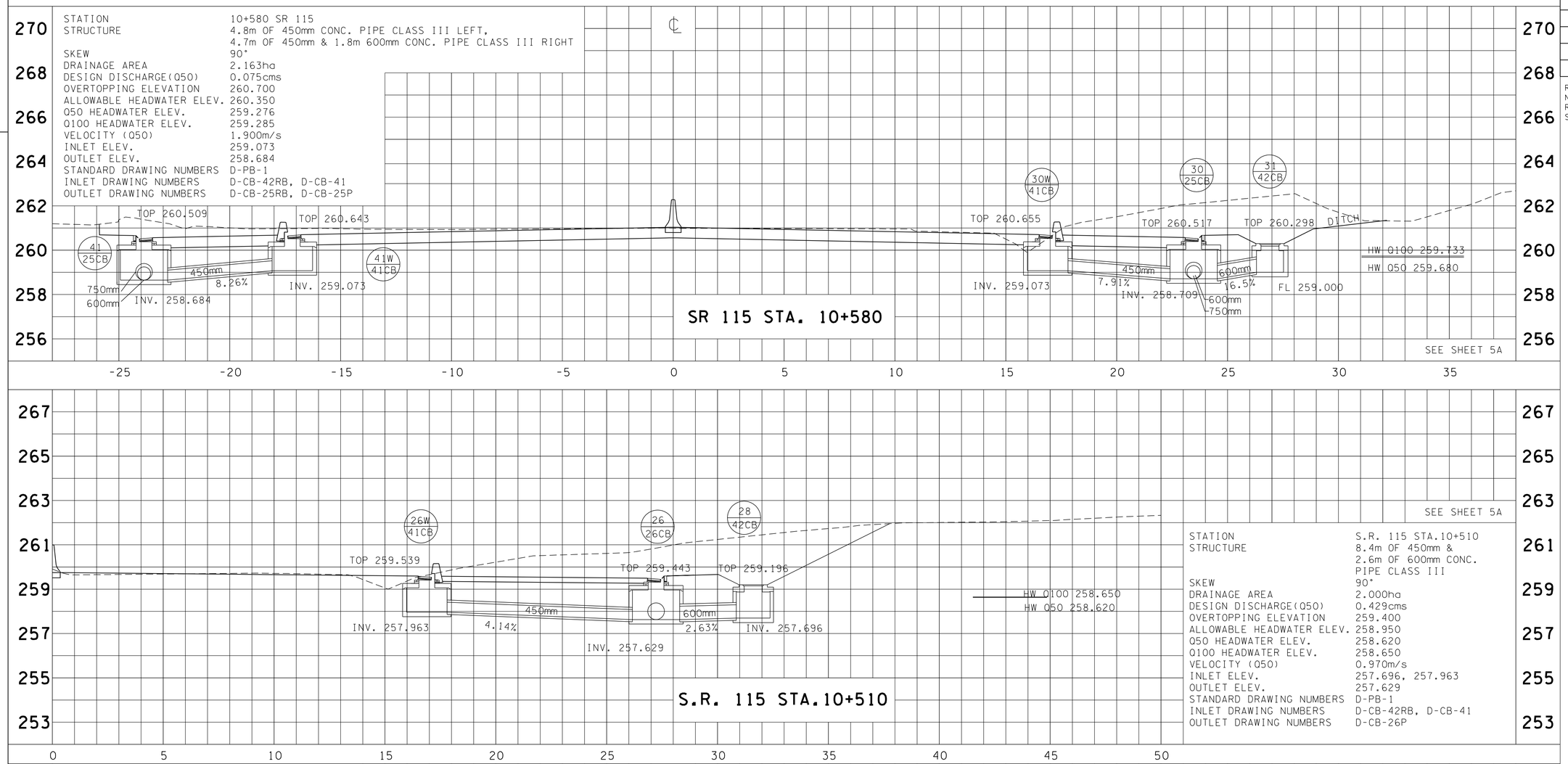
SCALE 1:100

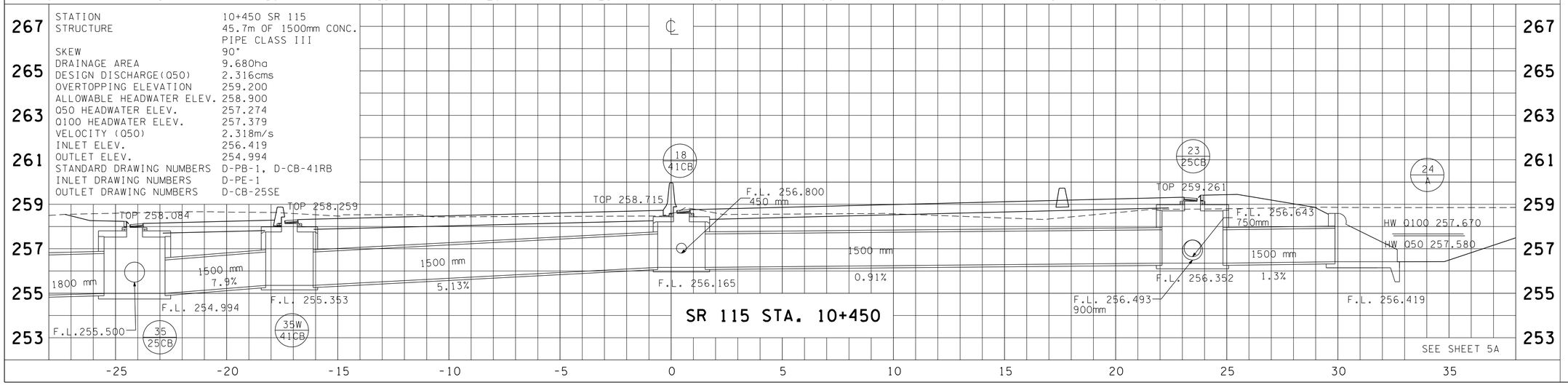
DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	35
CONST.	2016	47026-3279-14	35

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK.
REV. 22-AUG.-2014: REVISED CULVERT SECTIONS STA. 10+450, 10+510, 10+580.





COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

S.R 115 STA. 10+450
S.R. 115 STA. 10+510
S.R. 115 STA. 10+580

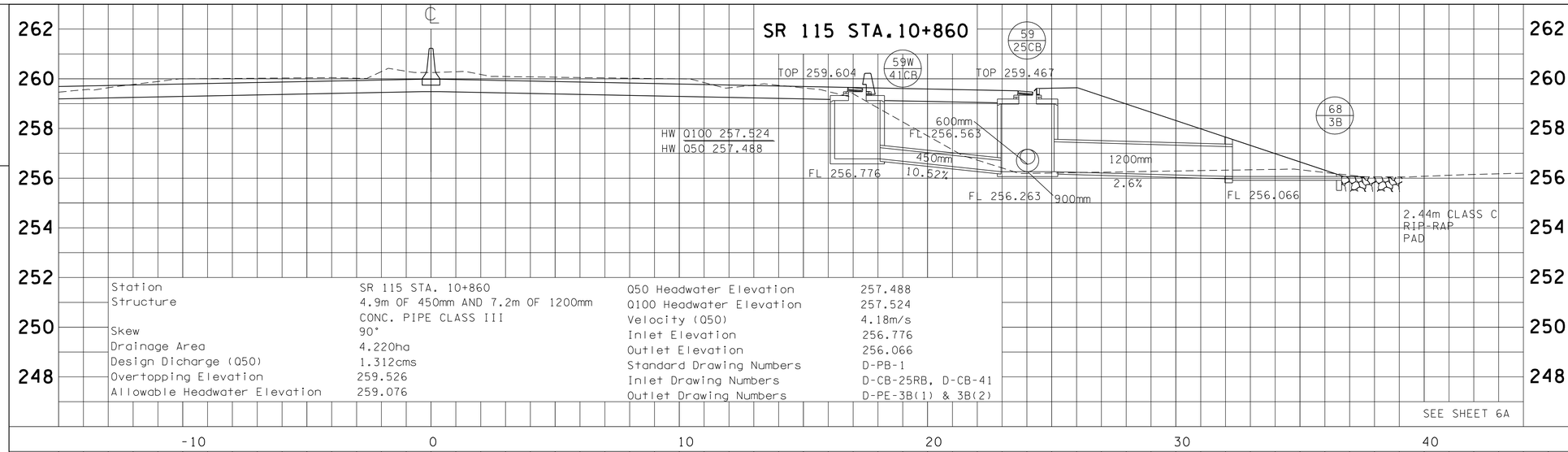
SCALE 1:100

DESIGN DIVISION

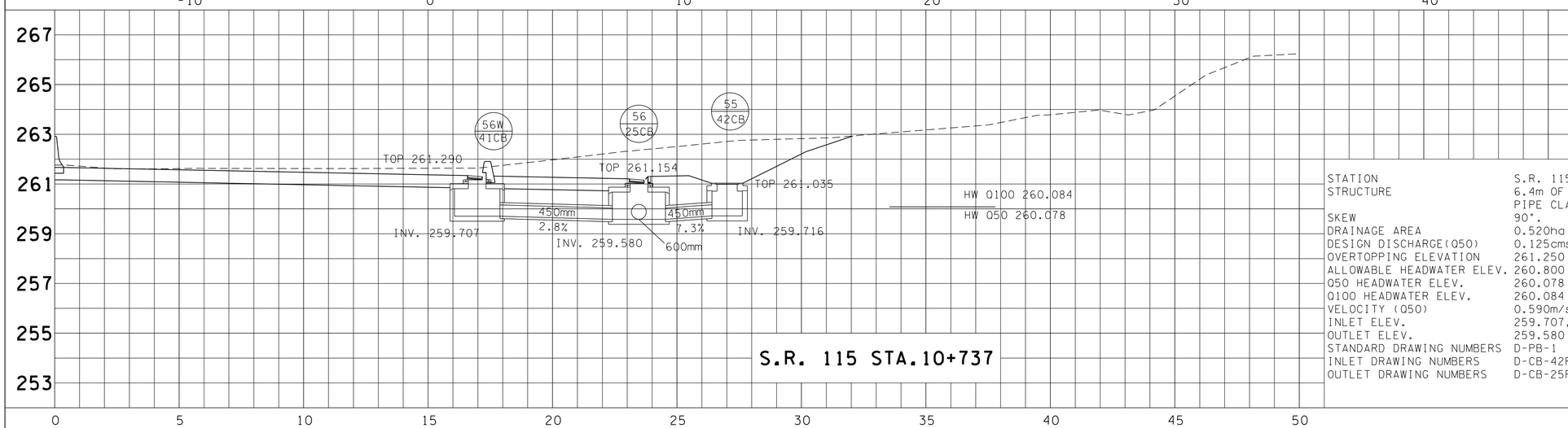
FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	36
CONST.	2016	47026-3279-14	36

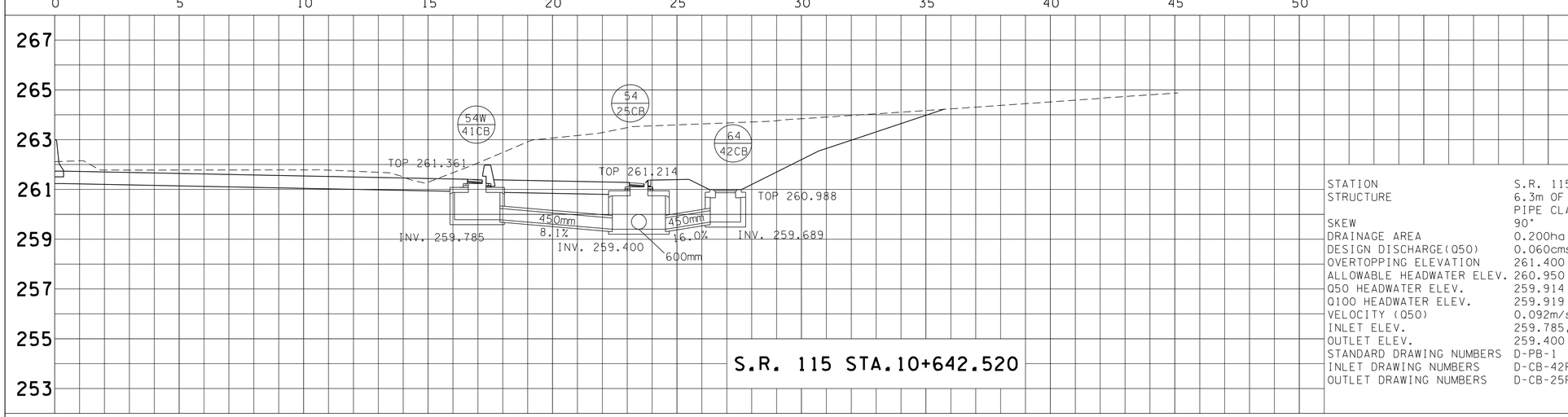
REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK.
REV. 22-AUG.-2014: REVISED CULVERT SECTIONS STA. 10+642, 10+737, 10+860.



Station	SR 115 STA. 10+860	Q50 Headwater Elevation	257.488
Structure	4.9m OF 450mm AND 7.2m OF 1200mm CONC. PIPE CLASS III	Q100 Headwater Elevation	257.524
		Velocity (Q50)	4.18m/s
Skew	90°	Inlet Elevation	256.776
Drainage Area	4.220ha	Outlet Elevation	256.066
Design Dicharge (Q50)	1.312cms	Standard Drawing Numbers	D-PB-1
Overtopping Elevation	259.526	Inlet Drawing Numbers	D-CB-25RB, D-CB-41
Allowable Headwater Elevation	259.076	Outlet Drawing Numbers	D-PE-3B(1) & 3B(2)



STATION	S.R. 115 STA.10+737
STRUCTURE	6.4m OF 450mm CONC. PIPE CLASS III
SKEW	90°.
DRAINAGE AREA	0.520ha
DESIGN DISCHARGE(Q50)	0.125cms
OVERTOPPING ELEVATION	261.250
ALLOWABLE HEADWATER ELEV.	260.800
Q50 HEADWATER ELEV.	260.078
Q100 HEADWATER ELEV.	260.084
VELOCITY (Q50)	0.590m/s
INLET ELEV.	259.707, 259.716
OUTLET ELEV.	259.580
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-CB-42RB / D-CB-41
OUTLET DRAWING NUMBERS	D-CB-25P



STATION	S.R. 115 STA.10+642.520
STRUCTURE	6.3m OF 450mm CONC. PIPE CLASS III
SKEW	90°
DRAINAGE AREA	0.200ha
DESIGN DISCHARGE(Q50)	0.060cms
OVERTOPPING ELEVATION	261.400
ALLOWABLE HEADWATER ELEV.	260.950
Q50 HEADWATER ELEV.	259.914
Q100 HEADWATER ELEV.	259.919
VELOCITY (Q50)	0.092m/s
INLET ELEV.	259.785, 259.689
OUTLET ELEV.	259.400
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-CB-42RB / D-CB-41
OUTLET DRAWING NUMBERS	D-CB-25P

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

S.R. 115 STA. 10+642.520
S.R. 115 STA. 10+737
S.R. 115 STA. 10+860

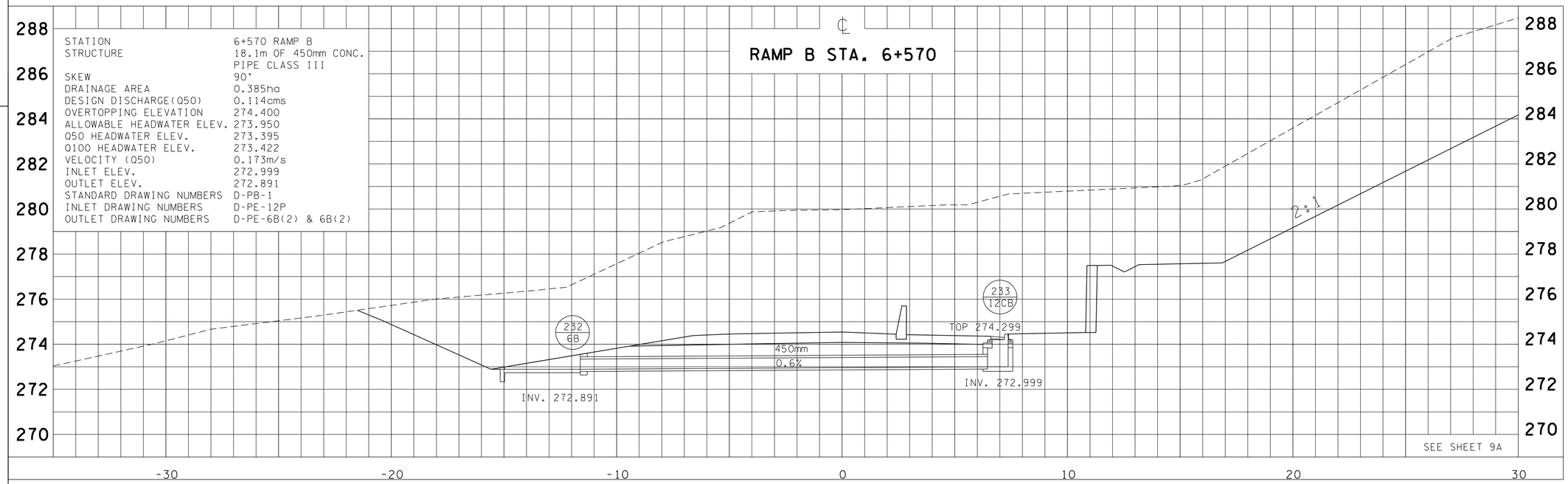
SCALE 1:100

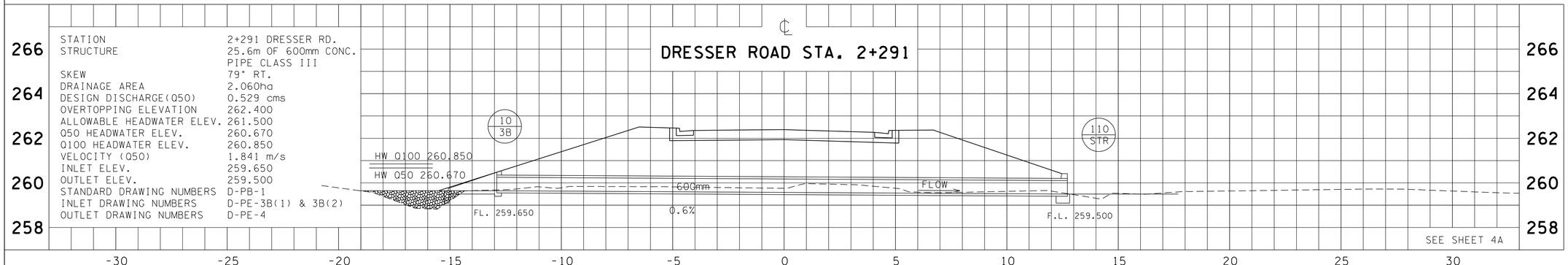
DESIGN DIVISION

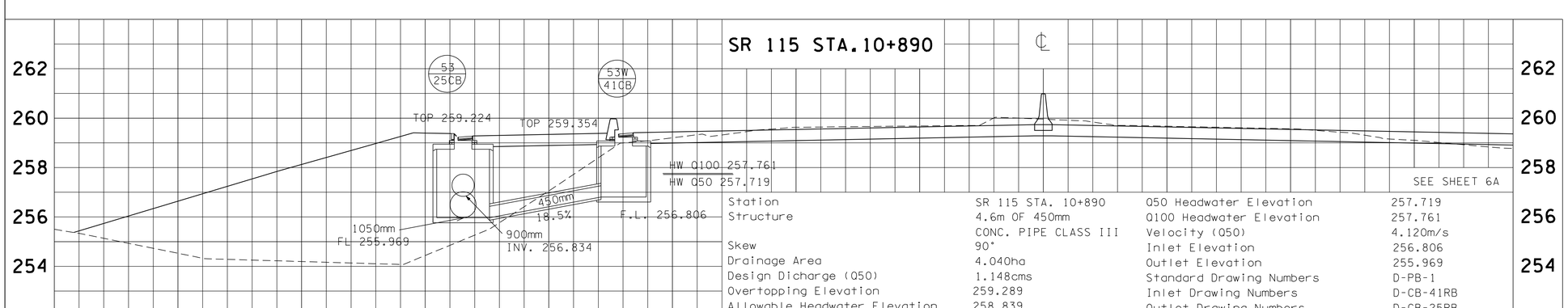
FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	37
CONST.	2016	47026-3279-14	37

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. ADDED PIPE SECTION STA. 2+293 DRESSER RD.
REV. 15MAR-2004: REVISED INLET AND OUTLET OF PIPE STA 2+293
REV. 22-AUG.-2014: REVISED CULVERT SECTION STA. 10+890.
REV. 16-JAN.-2015: REVISED PIPE SECTION STA. 10+890.







Station	SR 115 STA. 10+890	Q50 Headwater Elevation	257.719
Structure	4.6m OF 450mm CONC. PIPE CLASS III	Q100 Headwater Elevation	257.761
		Velocity (Q50)	4.120m/s
Skew	90°	Inlet Elevation	256.806
Drainage Area	4.040ha	Outlet Elevation	255.969
Design Dicharge (Q50)	1.148cms	Standard Drawing Numbers	D-PB-1
Overtopping Elevation	259.289	Inlet Drawing Numbers	D-CB-41RB
Allowable Headwater Elevation	258.839	Outlet Drawing Numbers	D-CB-25RB

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

S.R. 115 STA. 10+890
DRESSER RD. STA. 2+291
RAMP B STA. 6+570

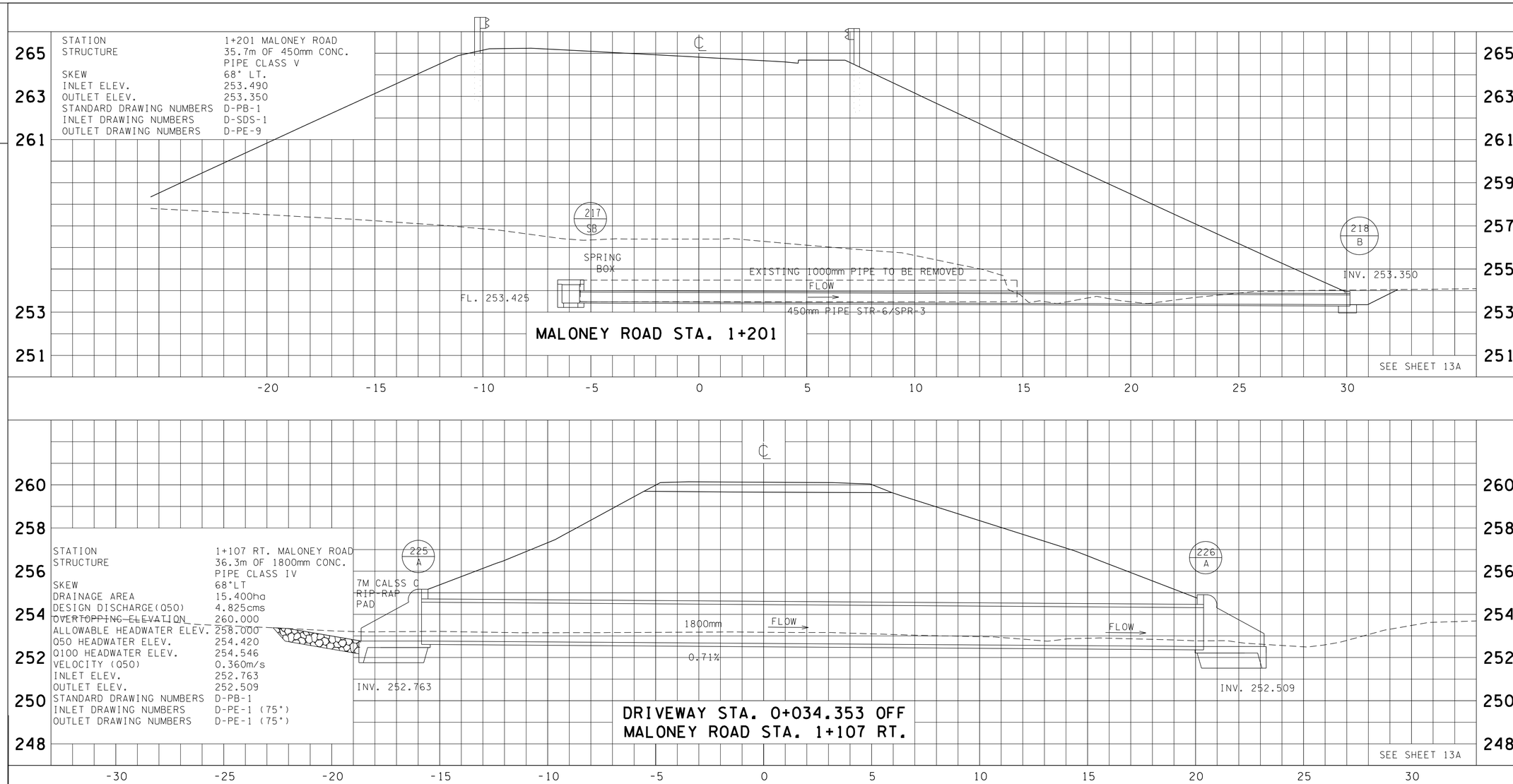
SCALE 1:100

DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	38
CONST.	2016	47026-3279-14	38

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. ADDED PIPE SECTION STA. 0+037 DRIVEWAY.
REV. 22-AUG.-2014: REVISED CULVERT SECTIONS STA. 0+037 RT. 1+110.
REV. 24-APR-2014: ADDED PIPE STA.1+201.



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

COLLECTOR #5 STA. 4+580
DRIVEWAY STA. 0+034.353
MALONEY RD. STA. 1+201

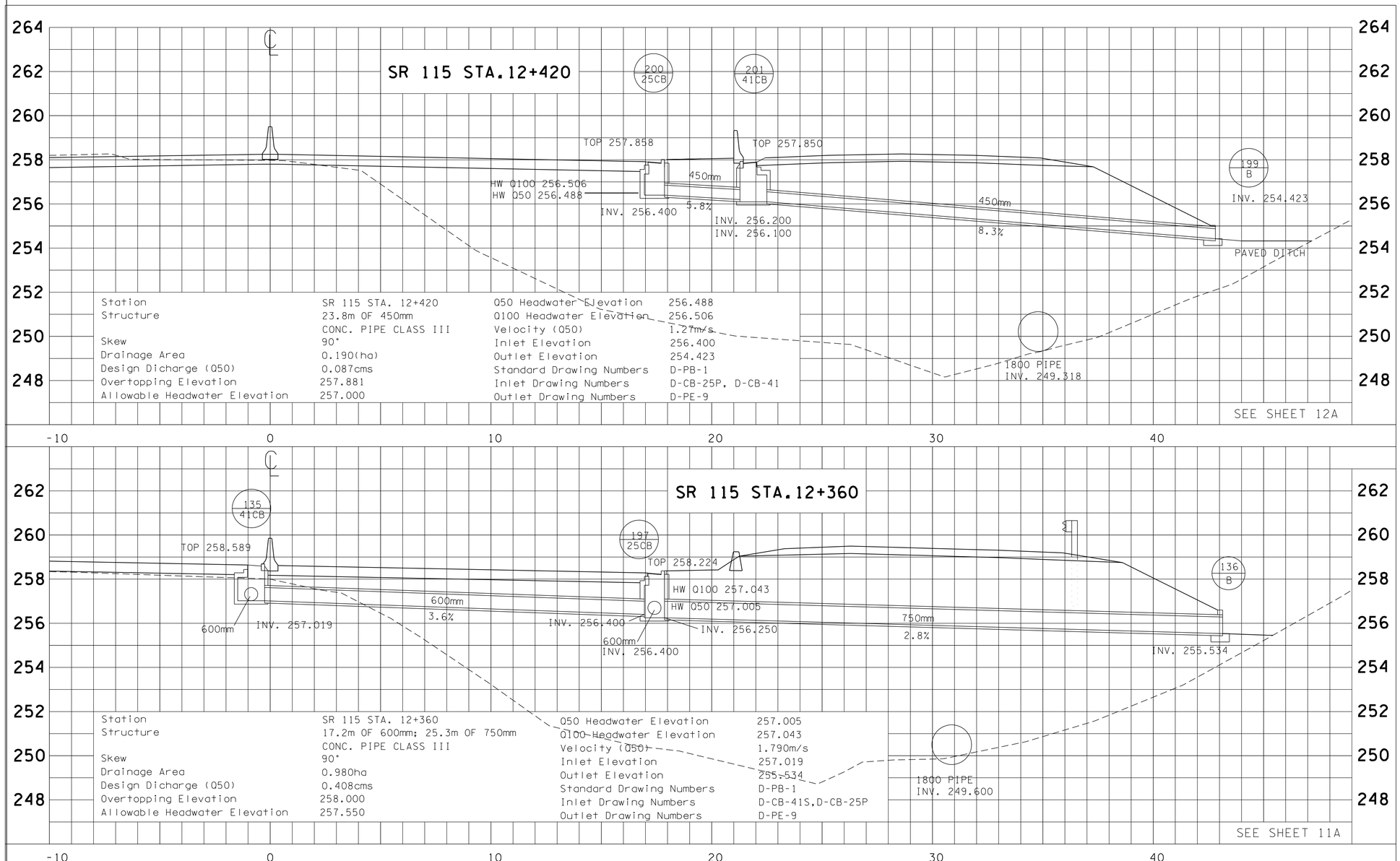
SCALE 1:100

DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	39
CONST.	2016	47026-3279-14	39

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. REVISED PIPE SECTIONS STA. 12+360 & STA. 12+420 SR 115.



Station	SR 115 STA. 12+420	Q50 Headwater Elevation	256.488
Structure	23.8m OF 450mm CONC. PIPE CLASS III	Q100 Headwater Elevation	256.506
		Velocity (Q50)	1.27m/s
Skew	90°	Inlet Elevation	256.400
Drainage Area	0.190(ha)	Outlet Elevation	254.423
Design Dicharge (Q50)	0.087cms	Standard Drawing Numbers	D-PB-1
Overtopping Elevation	257.881	Inlet Drawing Numbers	D-CB-25P, D-CB-41
Allowable Headwater Elevation	257.000	Outlet Drawing Numbers	D-PE-9

Station	SR 115 STA. 12+360	Q50 Headwater Elevation	257.005
Structure	17.2m OF 600mm; 25.3m OF 750mm CONC. PIPE CLASS III	Q100 Headwater Elevation	257.043
		Velocity (Q50)	1.790m/s
Skew	90°	Inlet Elevation	257.019
Drainage Area	0.980ha	Outlet Elevation	255.534
Design Dicharge (Q50)	0.408cms	Standard Drawing Numbers	D-PB-1
Overtopping Elevation	258.000	Inlet Drawing Numbers	D-CB-41S,D-CB-25P
Allowable Headwater Elevation	257.550	Outlet Drawing Numbers	D-PE-9

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

S.R. 115 STA. 12+360
S.R. 115 STA. 12+420

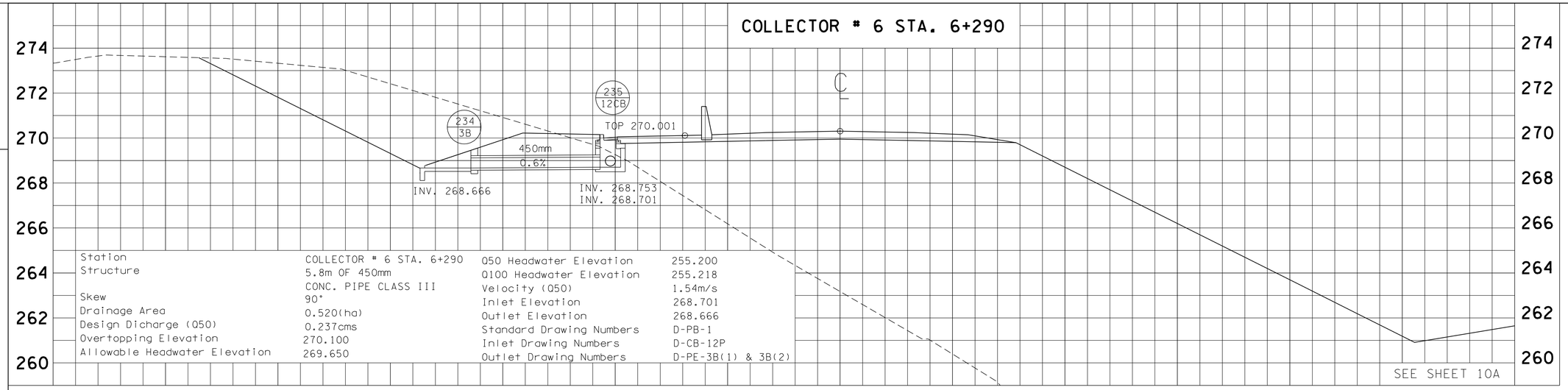
SCALE 1:100

DESIGN DIVISION

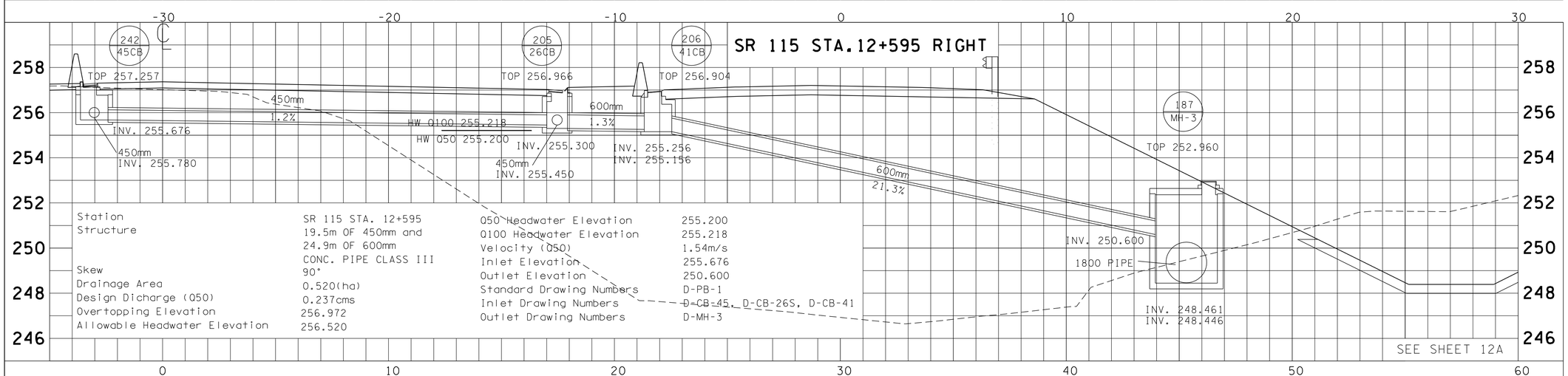
FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	40
CONST.	2016	47026-3279-14	40

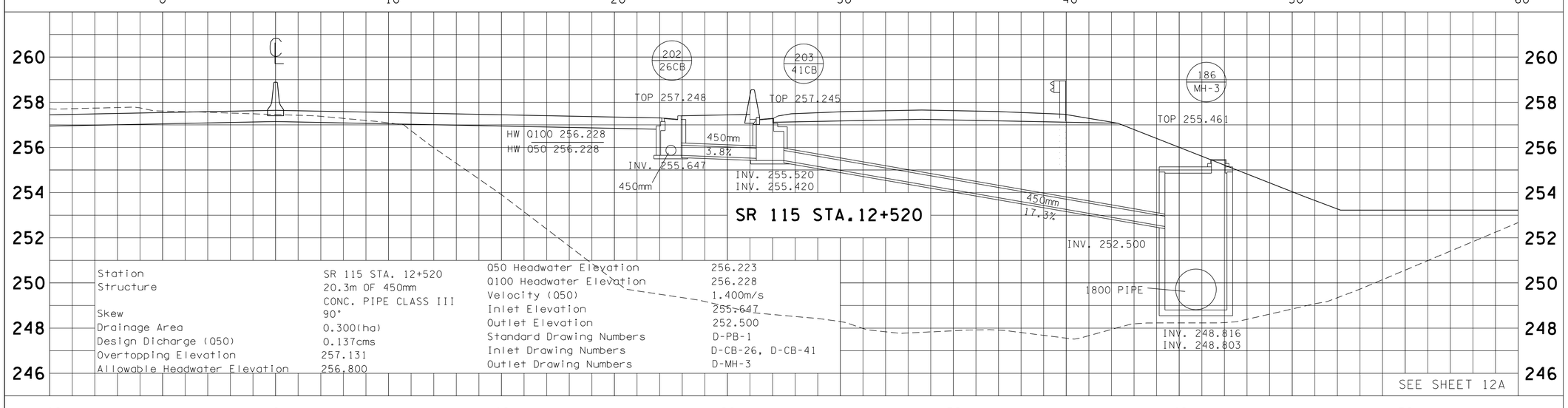
REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. REVISED PIPE SECTIONS STA. 12+520 & STA. 12+595 SR 115.



Station	COLLECTOR # 6 STA. 6+290	Q50 Headwater Elevation	255.200
Structure	5.8m OF 450mm	Q100 Headwater Elevation	255.218
	CONC. PIPE CLASS III	Velocity (Q50)	1.54m/s
Skew	90°	Inlet Elevation	268.701
Drainage Area	0.520(ha)	Outlet Elevation	268.666
Design Dicharge (Q50)	0.237cms	Standard Drawing Numbers	D-PB-1
Overtopping Elevation	270.100	Inlet Drawing Numbers	D-CB-12P
Allowable Headwater Elevation	269.650	Outlet Drawing Numbers	D-PE-3B(1) & 3B(2)



Station	SR 115 STA. 12+595	Q50 Headwater Elevation	255.200
Structure	19.5m OF 450mm and	Q100 Headwater Elevation	255.218
	24.9m OF 600mm	Velocity (Q50)	1.54m/s
	CONC. PIPE CLASS III	Inlet Elevation	255.676
Skew	90°	Outlet Elevation	250.600
Drainage Area	0.520(ha)	Standard Drawing Numbers	D-PB-1
Design Dicharge (Q50)	0.237cms	Inlet Drawing Numbers	D-CB-45, D-CB-26S, D-CB-41
Overtopping Elevation	256.972	Outlet Drawing Numbers	D-MH-3
Allowable Headwater Elevation	256.520		



Station	SR 115 STA. 12+520	Q50 Headwater Elevation	256.223
Structure	20.3m OF 450mm	Q100 Headwater Elevation	256.228
	CONC. PIPE CLASS III	Velocity (Q50)	1.400m/s
Skew	90°	Inlet Elevation	255.647
Drainage Area	0.300(ha)	Outlet Elevation	252.500
Design Dicharge (Q50)	0.137cms	Standard Drawing Numbers	D-PB-1
Overtopping Elevation	257.131	Inlet Drawing Numbers	D-CB-26, D-CB-41
Allowable Headwater Elevation	256.800	Outlet Drawing Numbers	D-MH-3

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

S.R. 115 STA. 12+520
S.R. 115 STA. 12+595
COLLECTOR #6 STA. 6+290

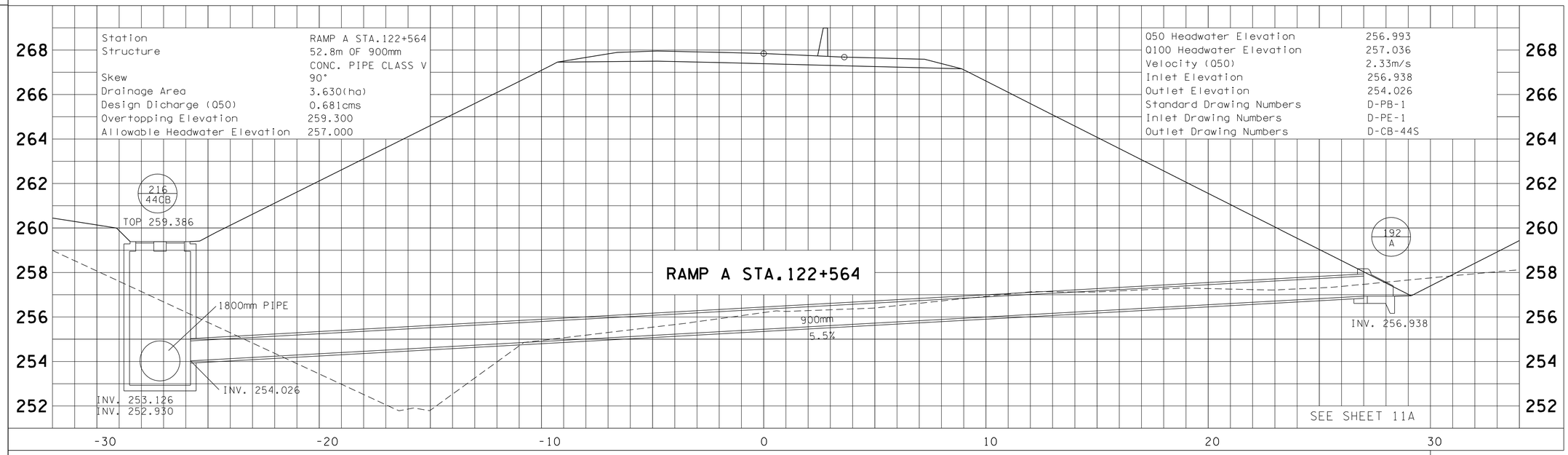
SCALE 1:100

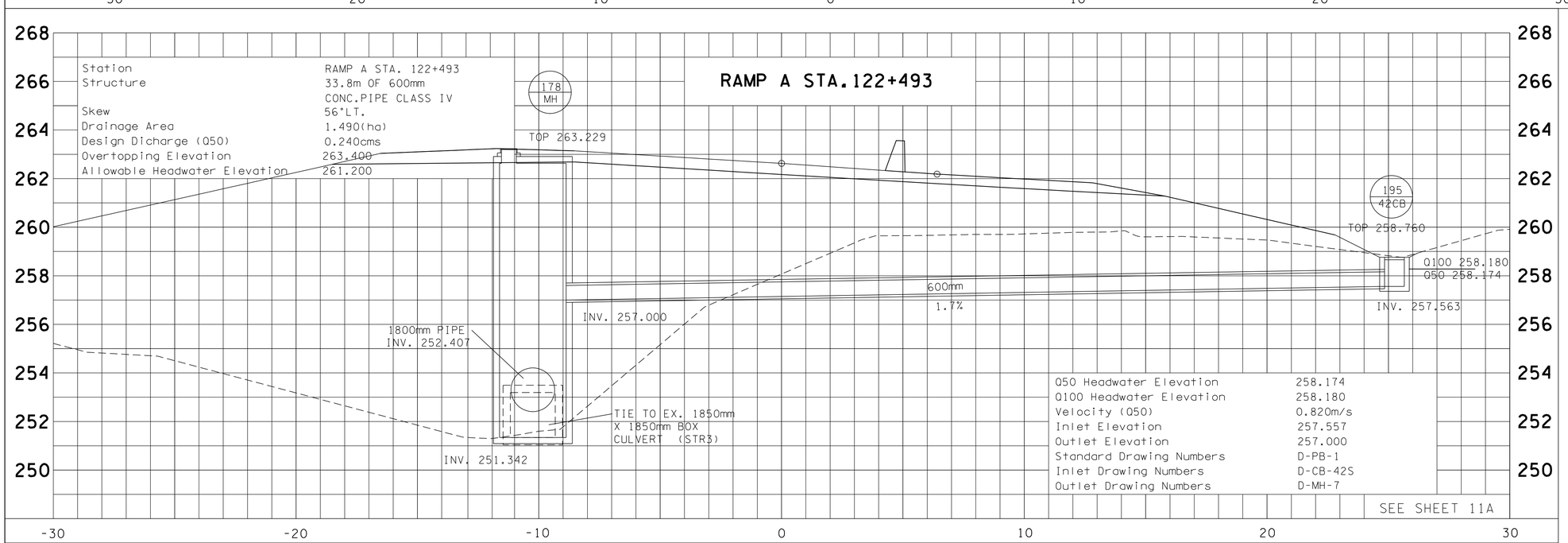
DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	41
CONST.	2016	47026-3279-14	41

REV. 28-FEB-2003: REVISED NAME & STA. NUMBERS ON TITLE BLOCK. REVISED PIPE SECTIONS STA. 122+493 & STA. 122+568 RAMP A.
REV. 22-AUG.-2014: REVISED CULVERT SECTION STA. 122+568.





TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

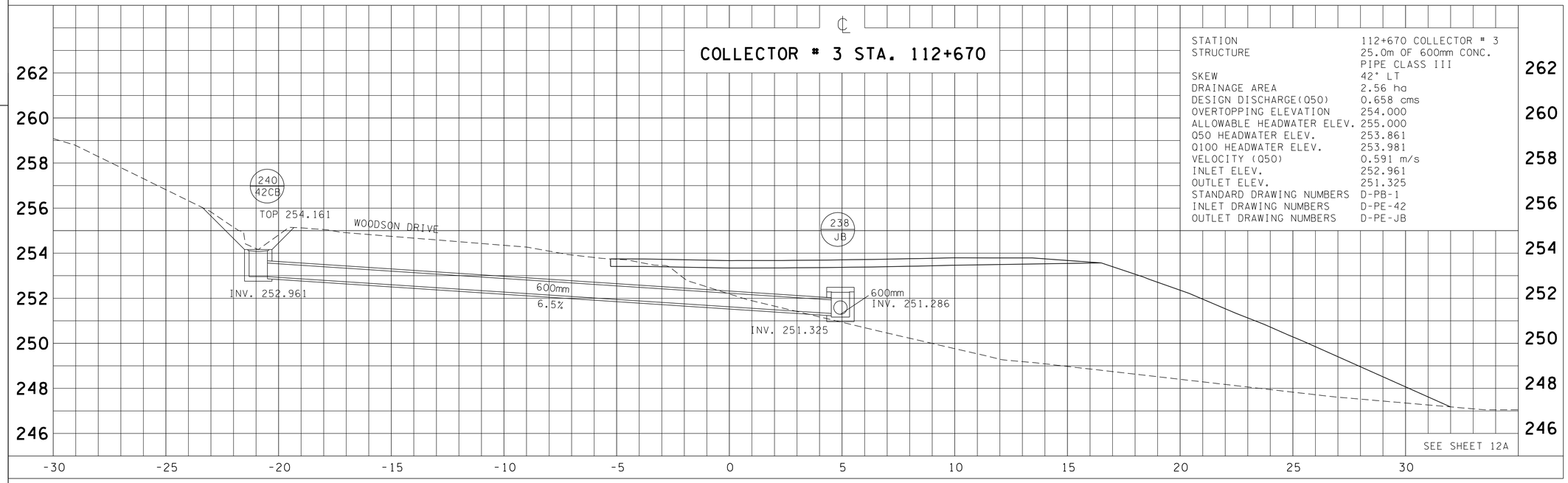
RAMP A STA. 122+493
RAMP A STA. 122+564

SCALE 1:100

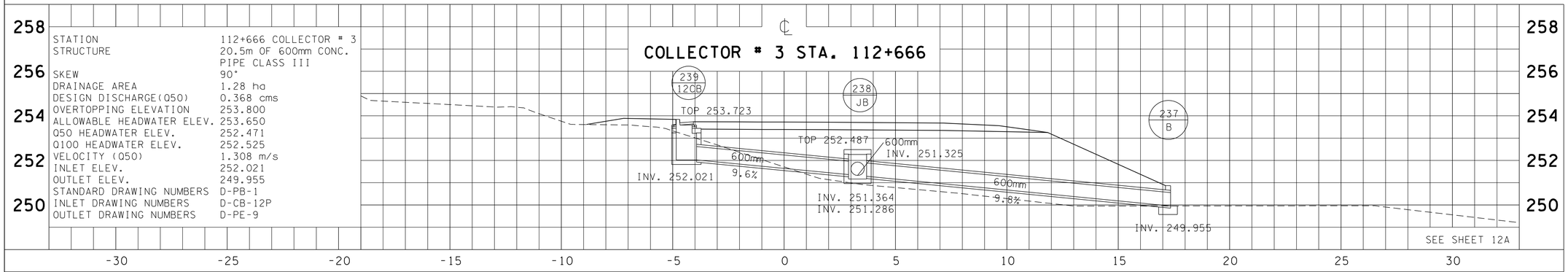
DESIGN DIVISION

FILE NO. ---

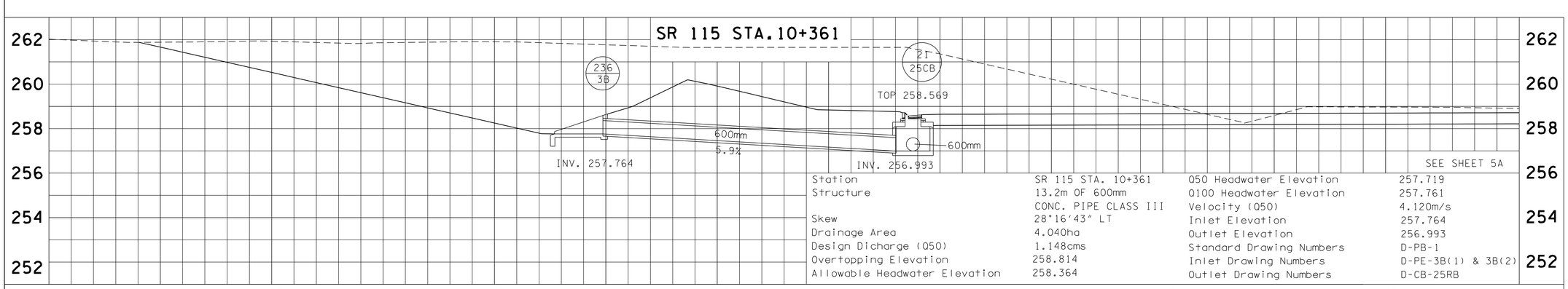
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	41A



STATION	112+670 COLLECTOR # 3
STRUCTURE	25.0m OF 600mm CONC. PIPE CLASS III
SKEW	42° LT
DRAINAGE AREA	2.56 ha
DESIGN DISCHARGE(Q50)	0.658 cms
OVERTOPPING ELEVATION	254.000
ALLOWABLE HEADWATER ELEV.	255.000
Q50 HEADWATER ELEV.	253.861
Q100 HEADWATER ELEV.	253.981
VELOCITY (Q50)	0.591 m/s
INLET ELEV.	252.961
OUTLET ELEV.	251.325
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-PE-42
OUTLET DRAWING NUMBERS	D-PE-JB



STATION	112+666 COLLECTOR # 3
STRUCTURE	20.5m OF 600mm CONC. PIPE CLASS III
SKEW	90°
DRAINAGE AREA	1.28 ha
DESIGN DISCHARGE(Q50)	0.368 cms
OVERTOPPING ELEVATION	253.800
ALLOWABLE HEADWATER ELEV.	253.650
Q50 HEADWATER ELEV.	252.471
Q100 HEADWATER ELEV.	252.525
VELOCITY (Q50)	1.308 m/s
INLET ELEV.	252.021
OUTLET ELEV.	249.955
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-CB-12P
OUTLET DRAWING NUMBERS	D-PE-9



Station	SR 115 STA. 10+361	Q50 Headwater Elevation	257.719
Structure	13.2m OF 600mm CONC. PIPE CLASS III	Q100 Headwater Elevation	257.761
		Velocity (Q50)	4.120m/s
Skew	28°16'43" LT	Inlet Elevation	257.764
Drainage Area	4.040ha	Outlet Elevation	256.993
Design Dicharge (Q50)	1.148cms	Standard Drawing Numbers	D-PB-1
Overtopping Elevation	258.814	Inlet Drawing Numbers	D-PE-3B(1) & 3B(2)
Allowable Headwater Elevation	258.364	Outlet Drawing Numbers	D-CB-25RB

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

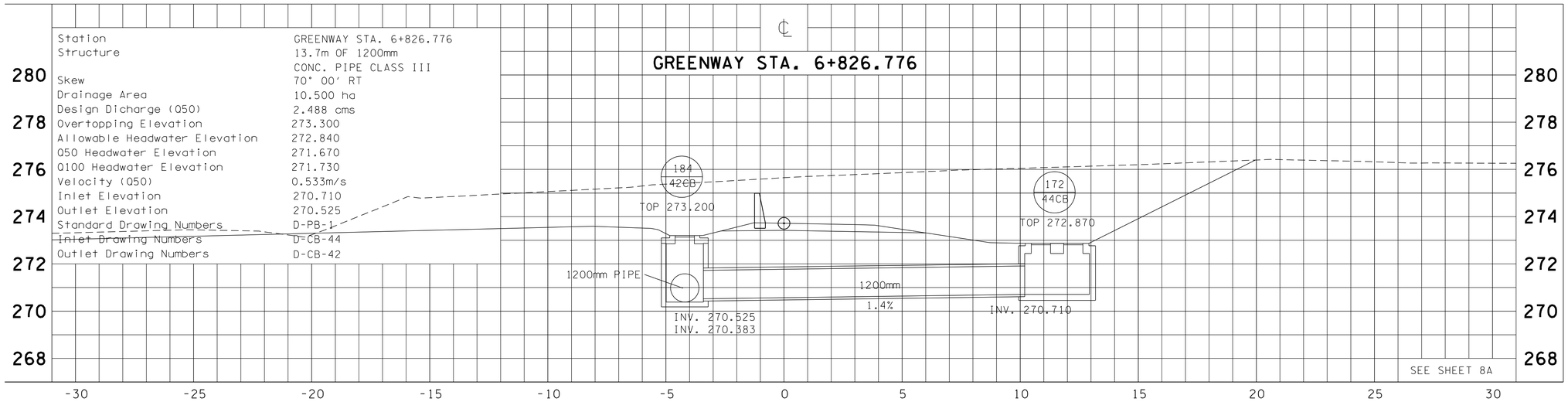
S.R. 115 STA. 10+361
COLLECTOR #3 STA. 112+666
COLLECTOR #3 STA. 112+670

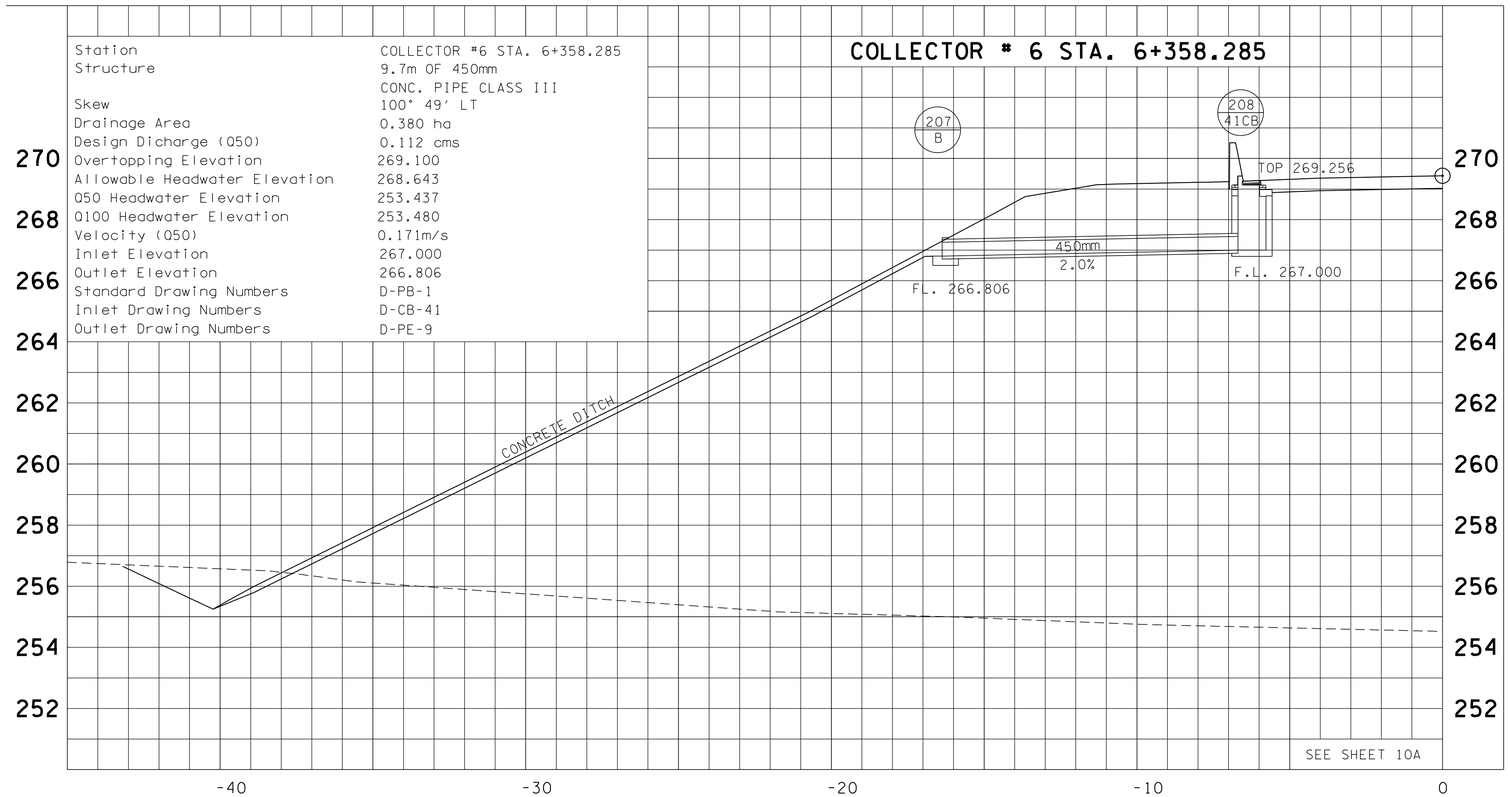
SCALE 1:100

DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	41B





COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

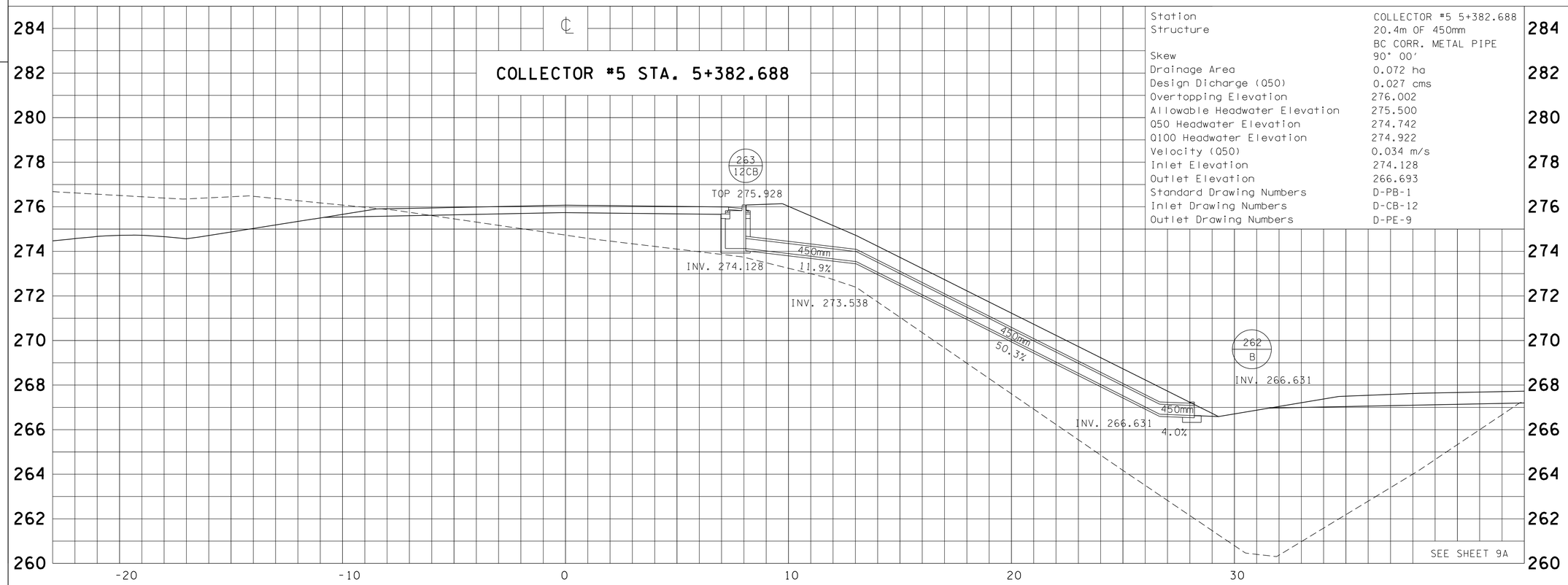
GREENWAY STA. 6+824.946
COLLECTOR #6 STA. 6+359.435

SCALE 1:100

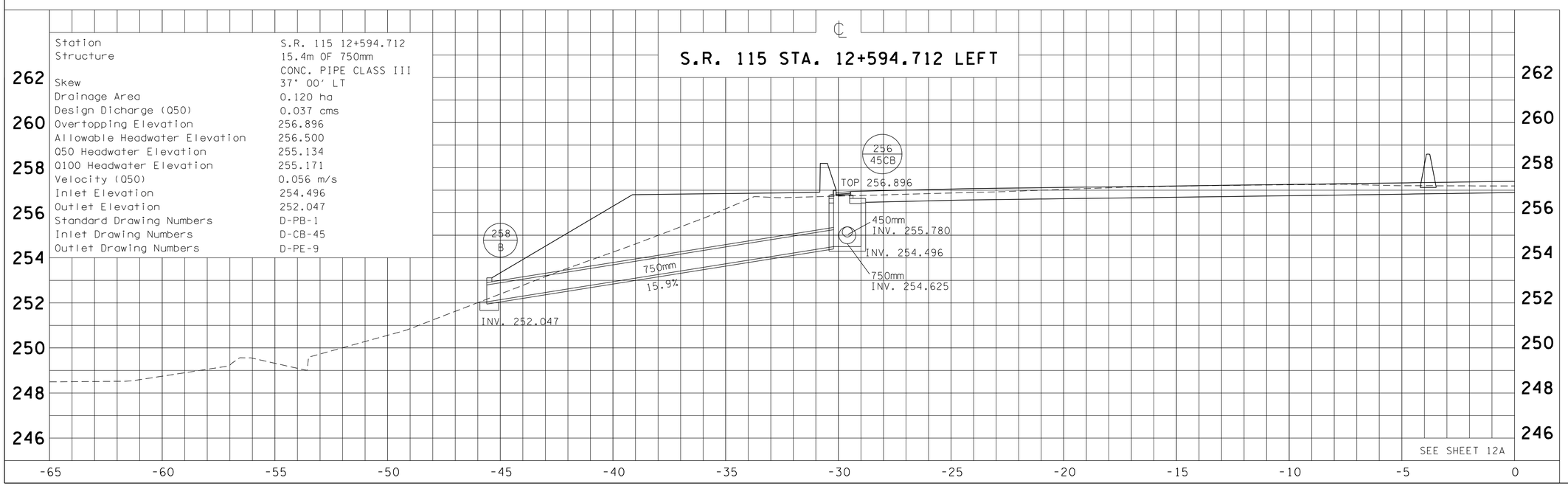
DESIGN DIVISION

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	41C



Station	COLLECTOR #5 5+382.688
Structure	20.4m OF 450mm BC CORR. METAL PIPE
Skew	90° 00′
Drainage Area	0.072 ha
Design Dicharge (Q50)	0.027 cms
Overtopping Elevation	276.002
Allowable Headwater Elevation	275.500
Q50 Headwater Elevation	274.742
Q100 Headwater Elevation	274.922
Velocity (Q50)	0.034 m/s
Inlet Elevation	274.128
Outlet Elevation	266.693
Standard Drawing Numbers	D-PB-1
Inlet Drawing Numbers	D-CB-12
Outlet Drawing Numbers	D-PE-9



Station	S.R. 115 12+594.712
Structure	15.4m OF 750mm CONC. PIPE CLASS III
Skew	37° 00′ LT
Drainage Area	0.120 ha
Design Dicharge (Q50)	0.037 cms
Overtopping Elevation	256.896
Allowable Headwater Elevation	256.500
Q50 Headwater Elevation	255.134
Q100 Headwater Elevation	255.171
Velocity (Q50)	0.056 m/s
Inlet Elevation	254.496
Outlet Elevation	252.047
Standard Drawing Numbers	D-PB-1
Inlet Drawing Numbers	D-CB-45
Outlet Drawing Numbers	D-PE-9

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

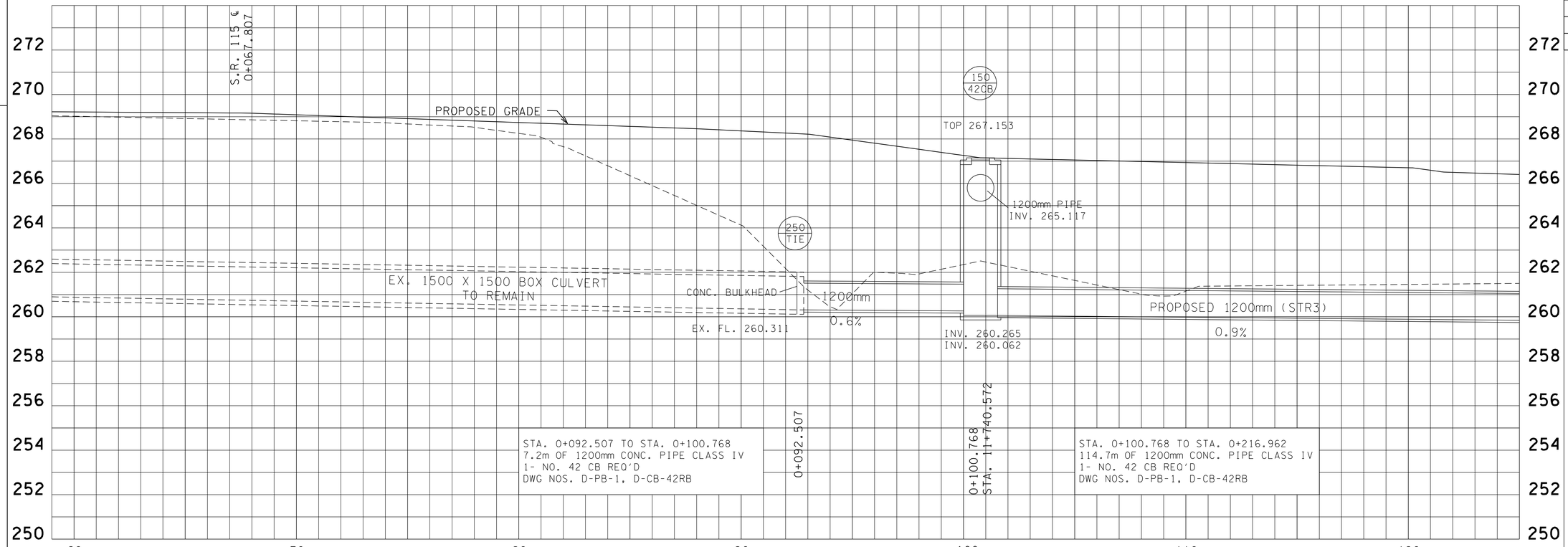
S.R. 115 STA. 12+594.712
COLLECTOR #5 5+384.995

SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	42
CONST.	2016	47026-3279-14	42

REV. 28-FEB-2003: ADDED NEW PIPE SECTIONS.



METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

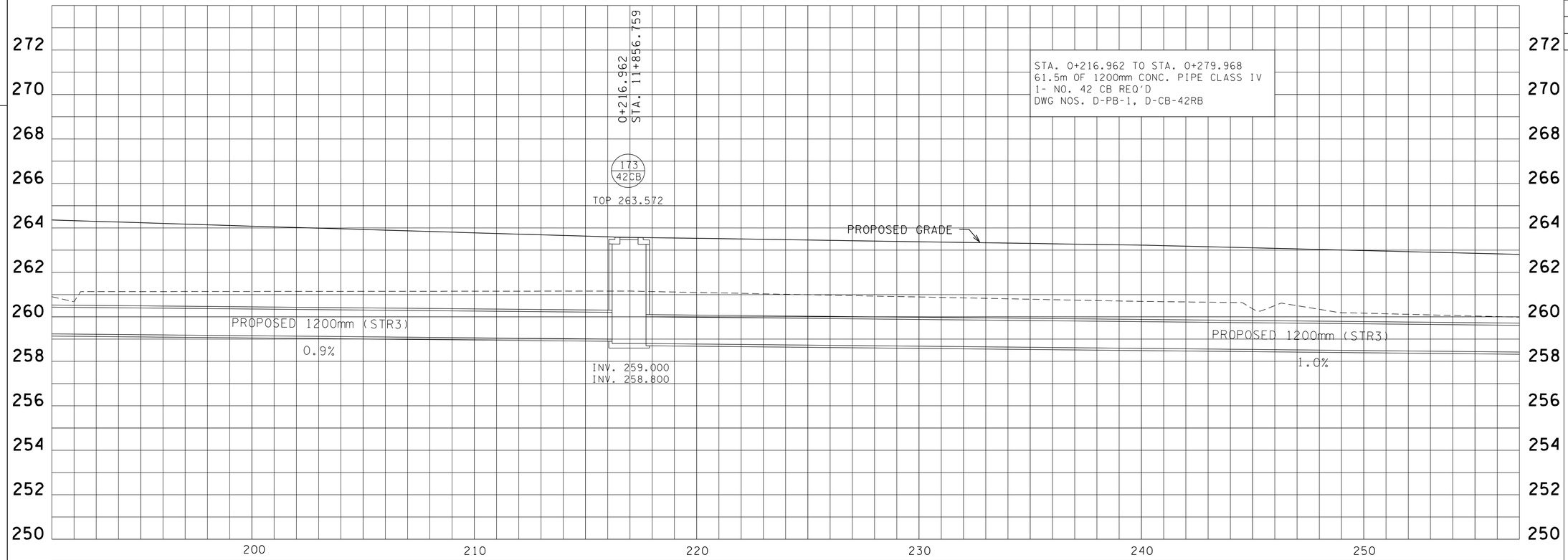
0-59
59-125

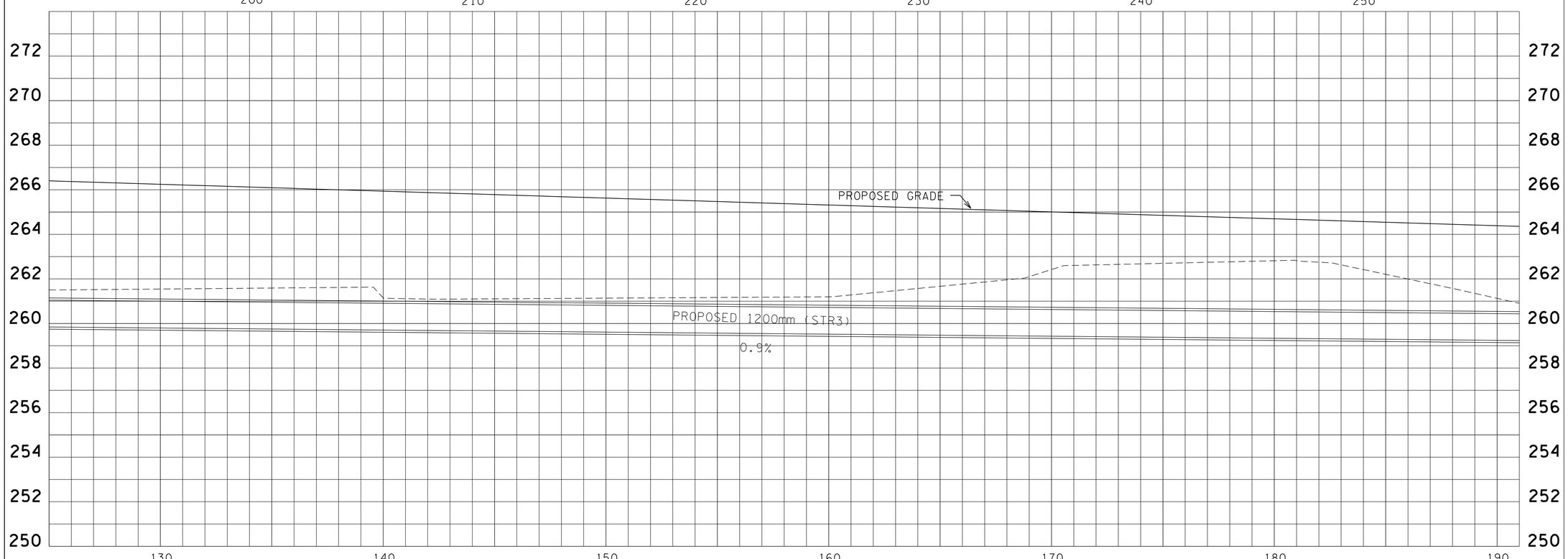
SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	42A
CONST.	2016	47026-3279-14	42A

REV. 28-FEB-2003: ADDED NEW PIPE SECTIONS.





COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

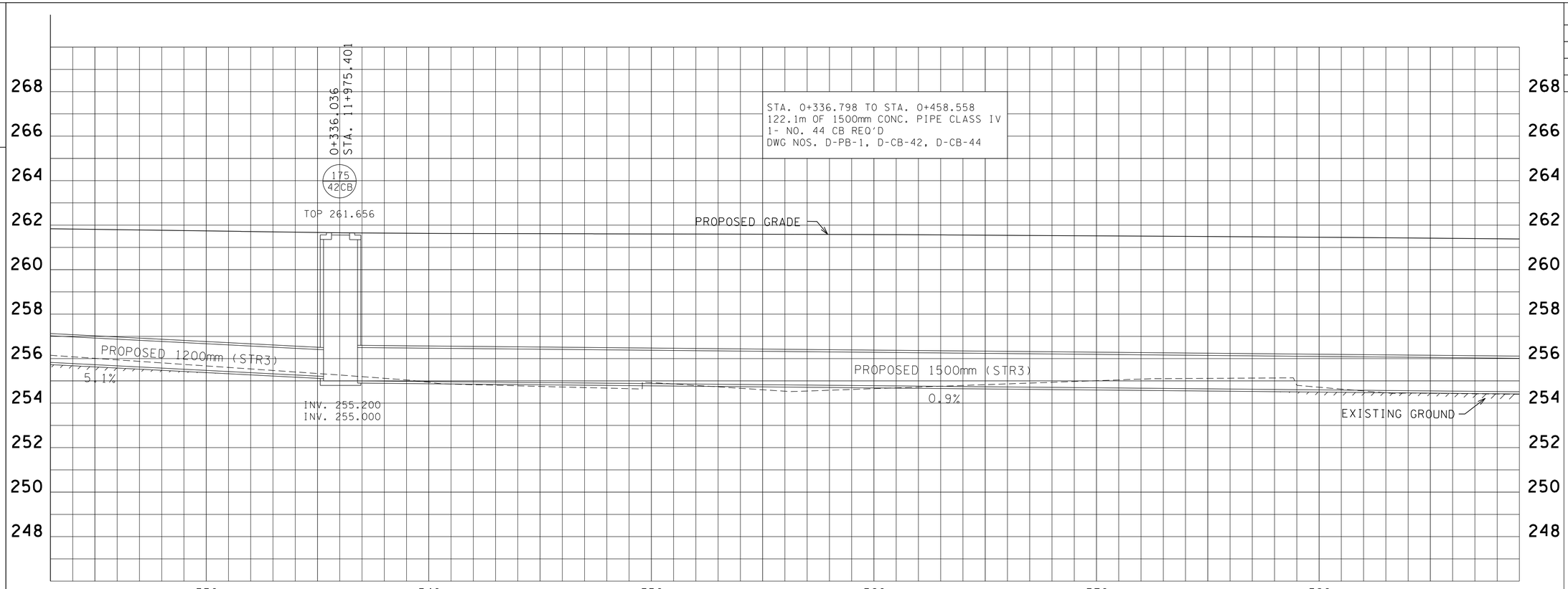
125-191
191-257

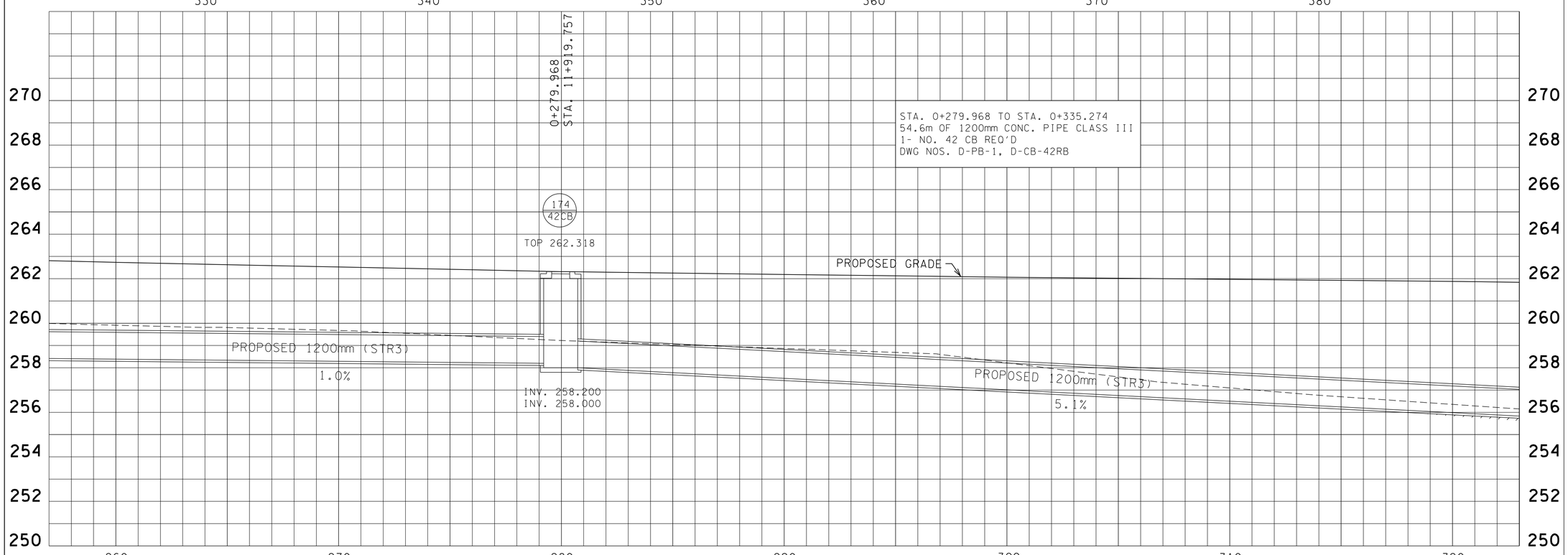
SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	42B
CONST.	2016	47026-3279-14	42B

REV. 28-FEB-2003: ADDED NEW PIPE SECTIONS.





TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

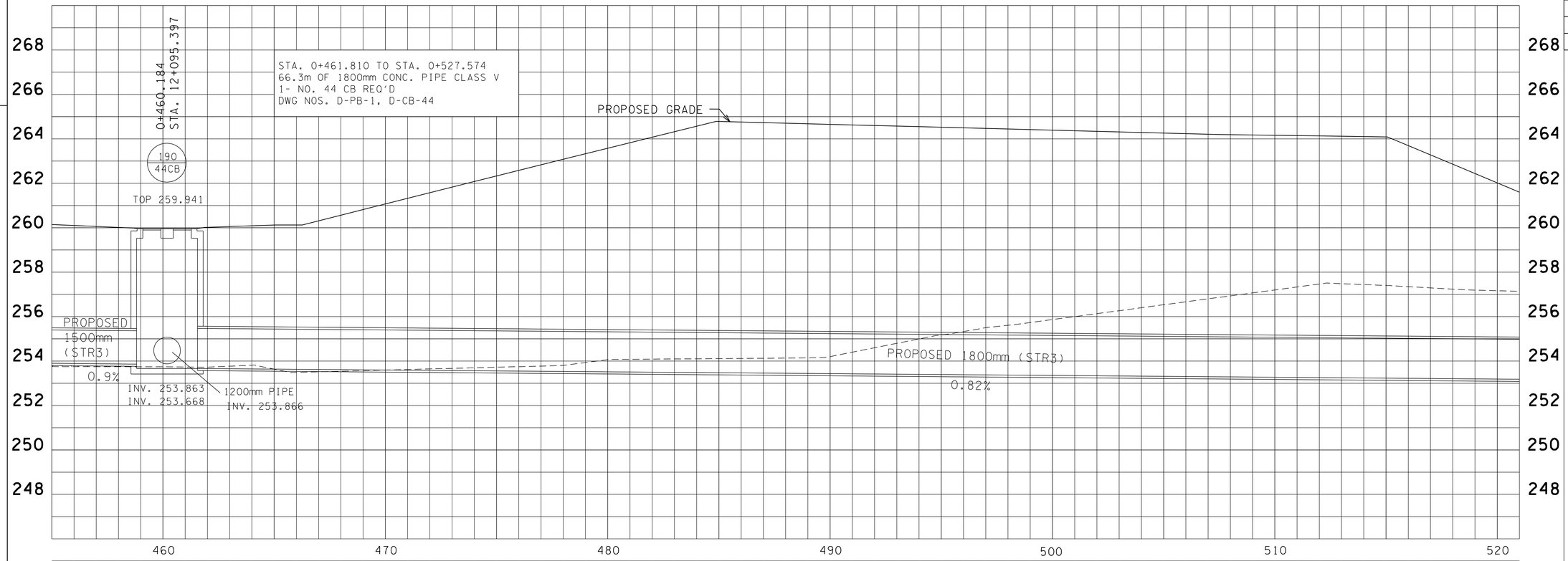
257-323
323-389

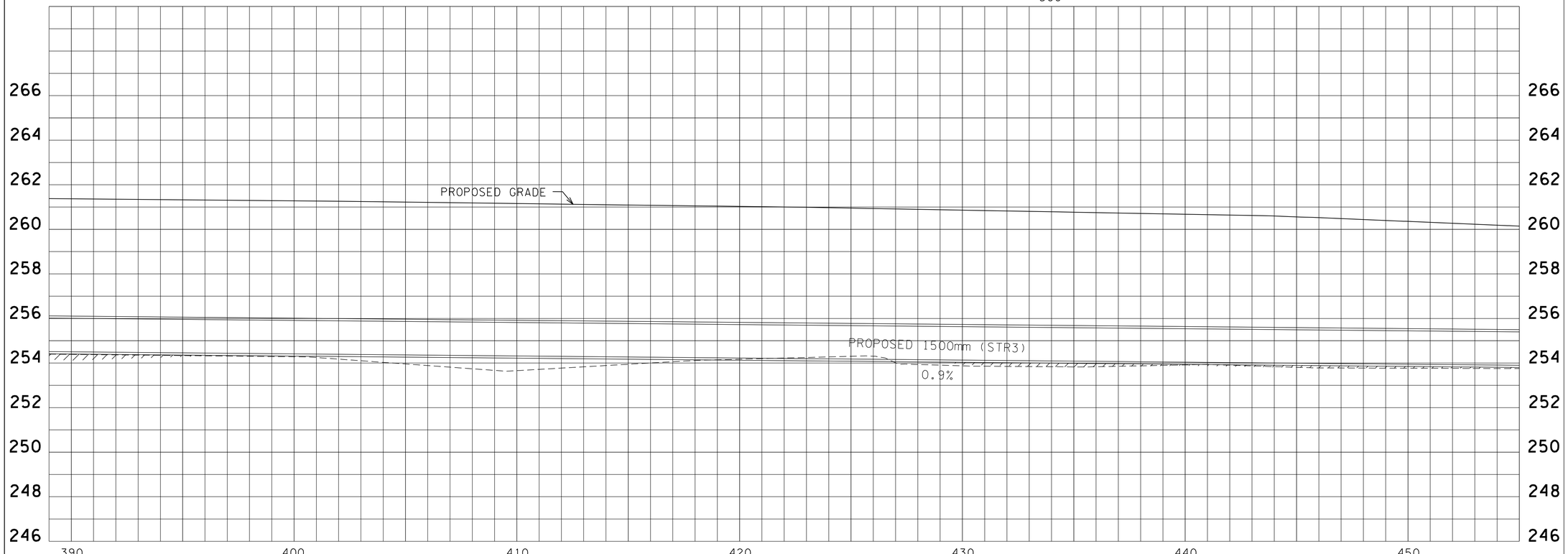
SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	42C
CONST.	2016	47026-3279-14	42C

REV. 28-FEB-2003: ADDED NEW PIPE SECTIONS.





COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

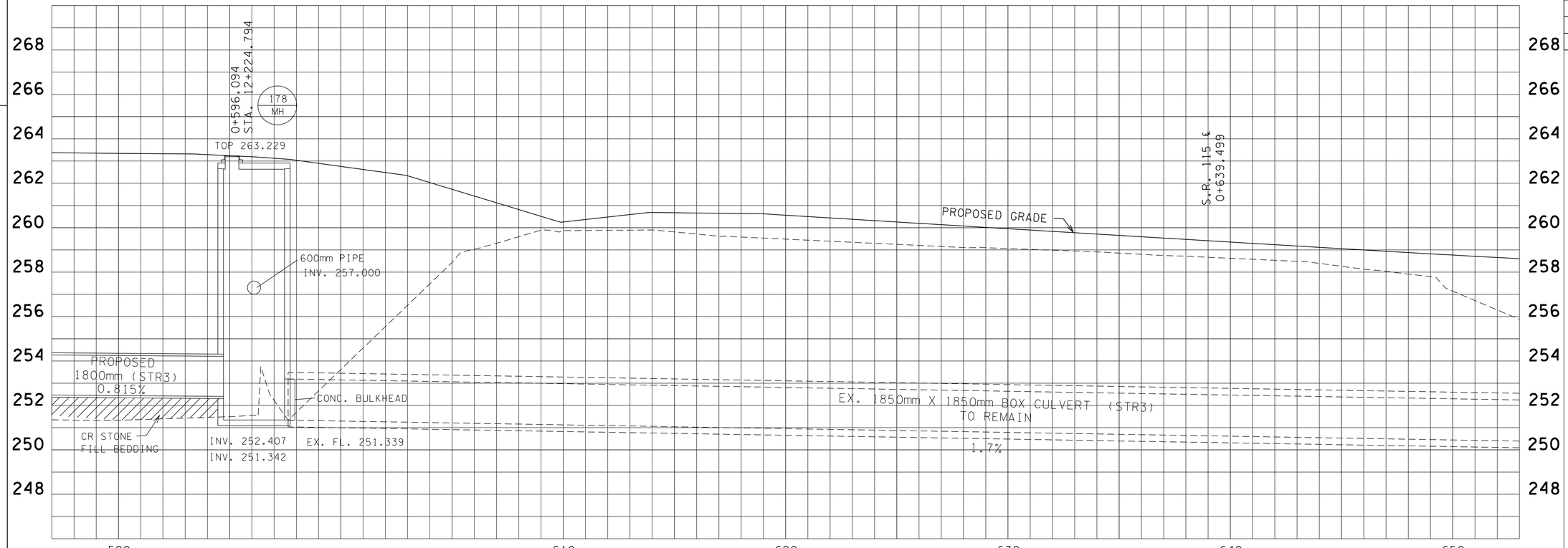
389-455
455-521

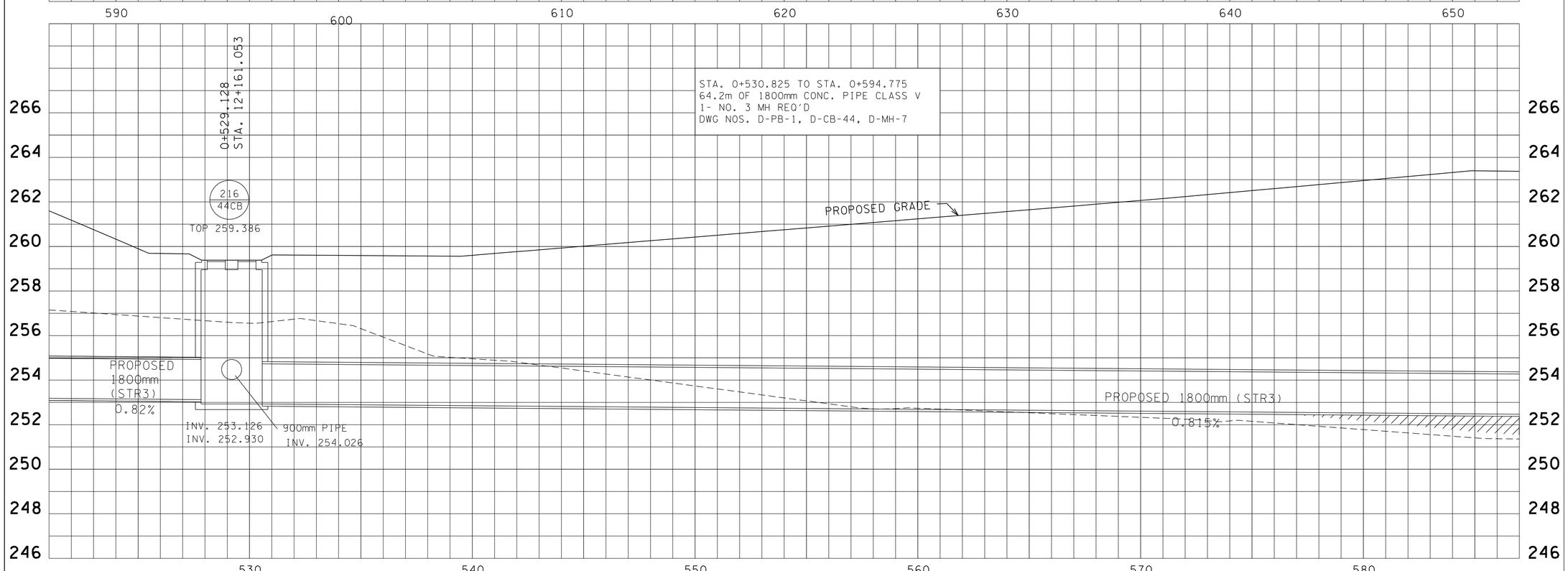
SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	42D
CONST.	2016	47026-3279-14	42D

REV. 28-FEB-2003: ADDED NEW PIPE SECTIONS.





TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

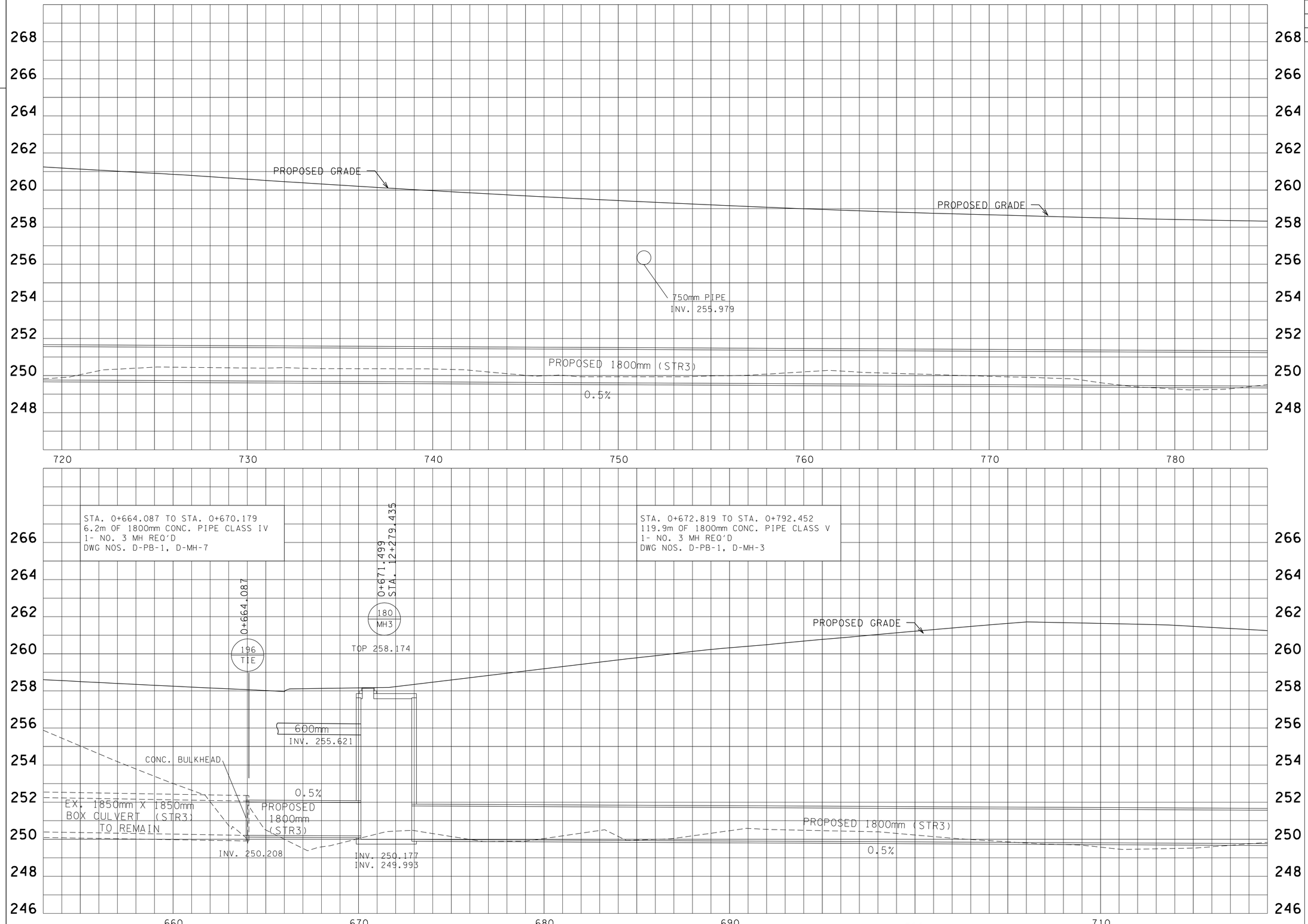
521-587
587-653

SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	42E
CONST.	2016	47026-3279-14	42E

REV. 28-FEB-2003: ADDED NEW PIPE SECTIONS.



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

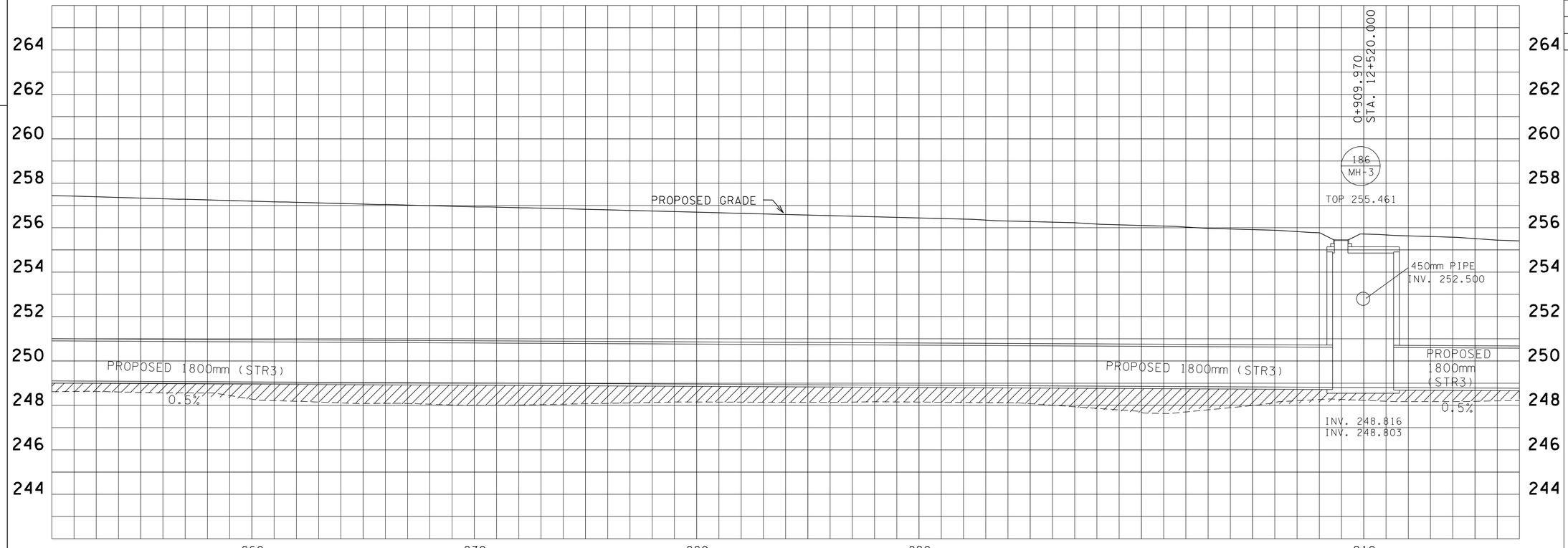
653-719
719-785

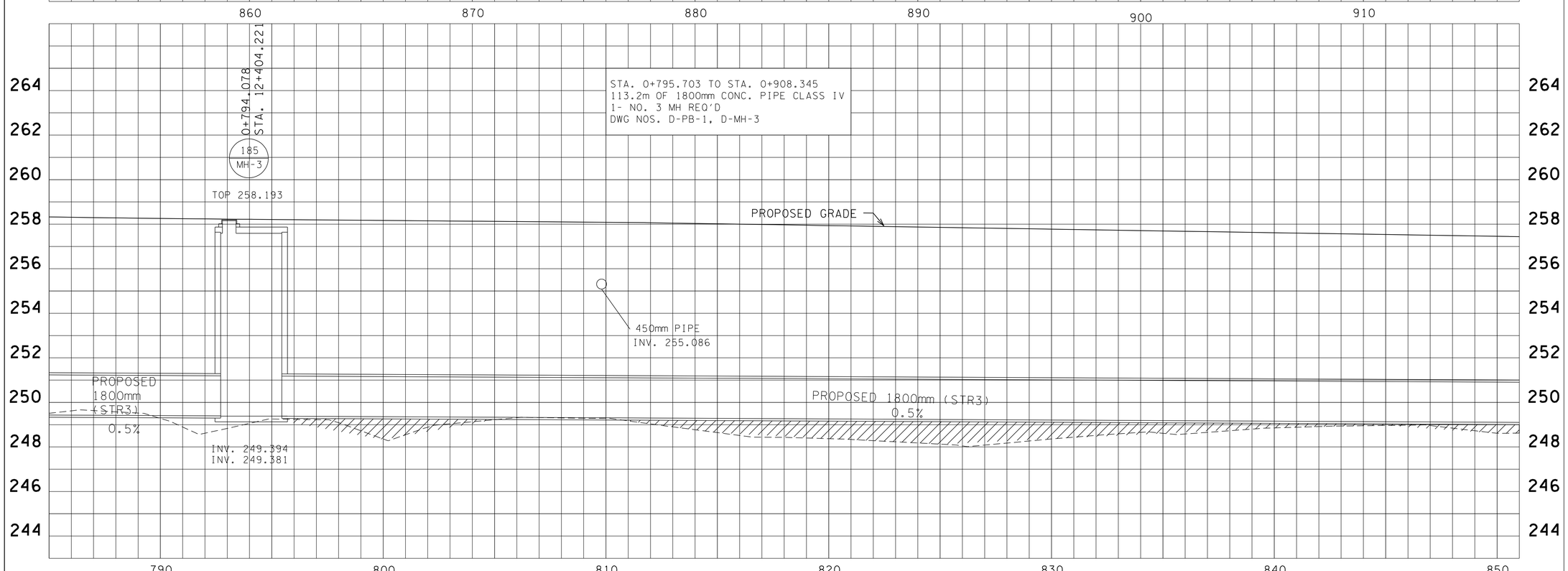
SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	42F
CONST.	2016	47026-3279-14	42F

REV. 28-FEB-2003: ADDED NEW PIPE SECTIONS.





COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

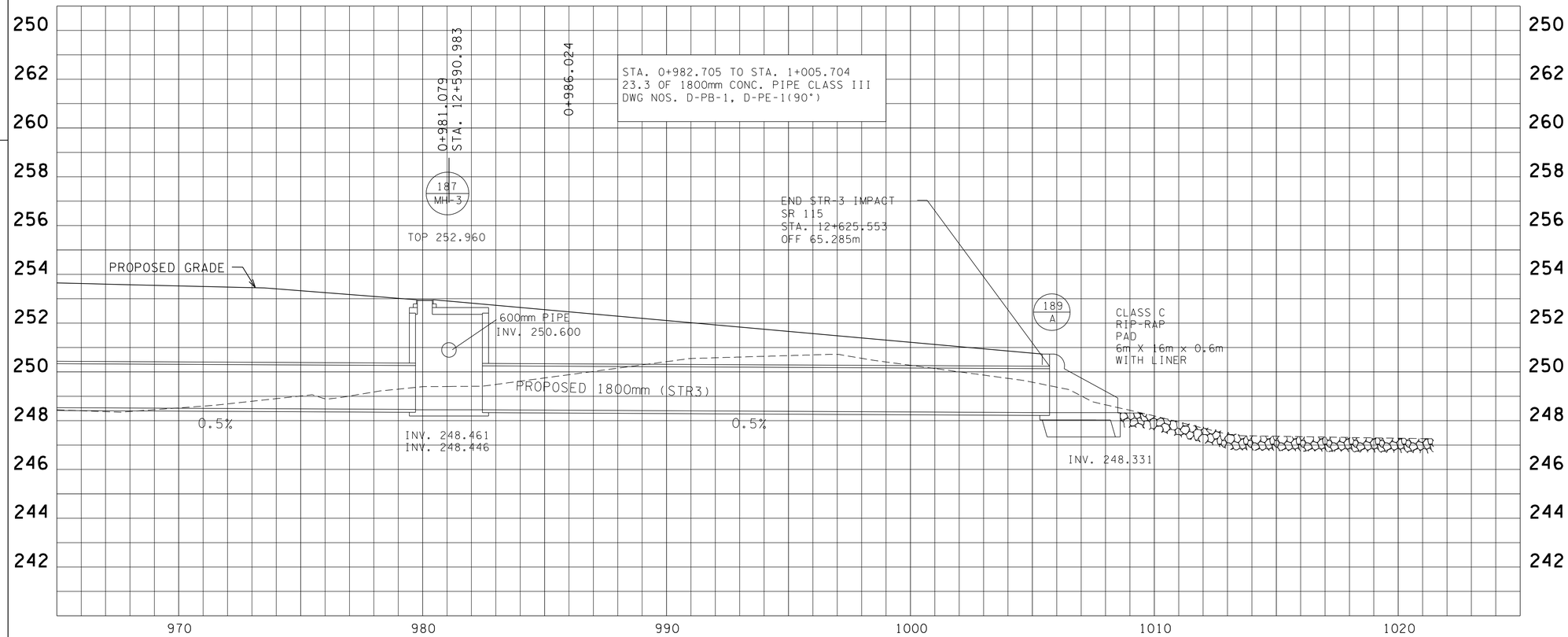
785-851
851-917

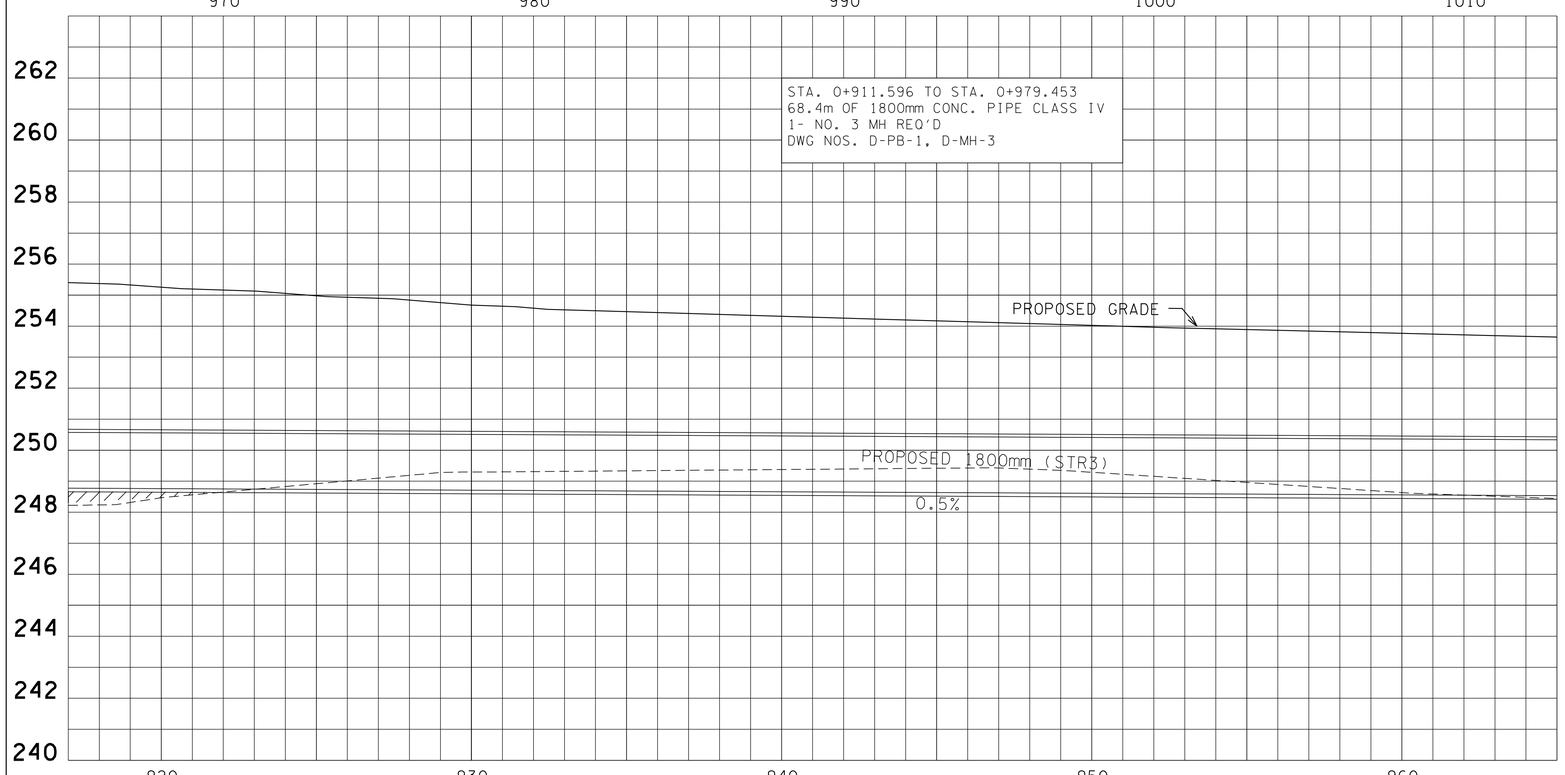
SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	42G
CONST.	2016	47026-3279-14	42G

REV. 28-FEB-2003: ADDED NEW PIPE SECTIONS.





COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

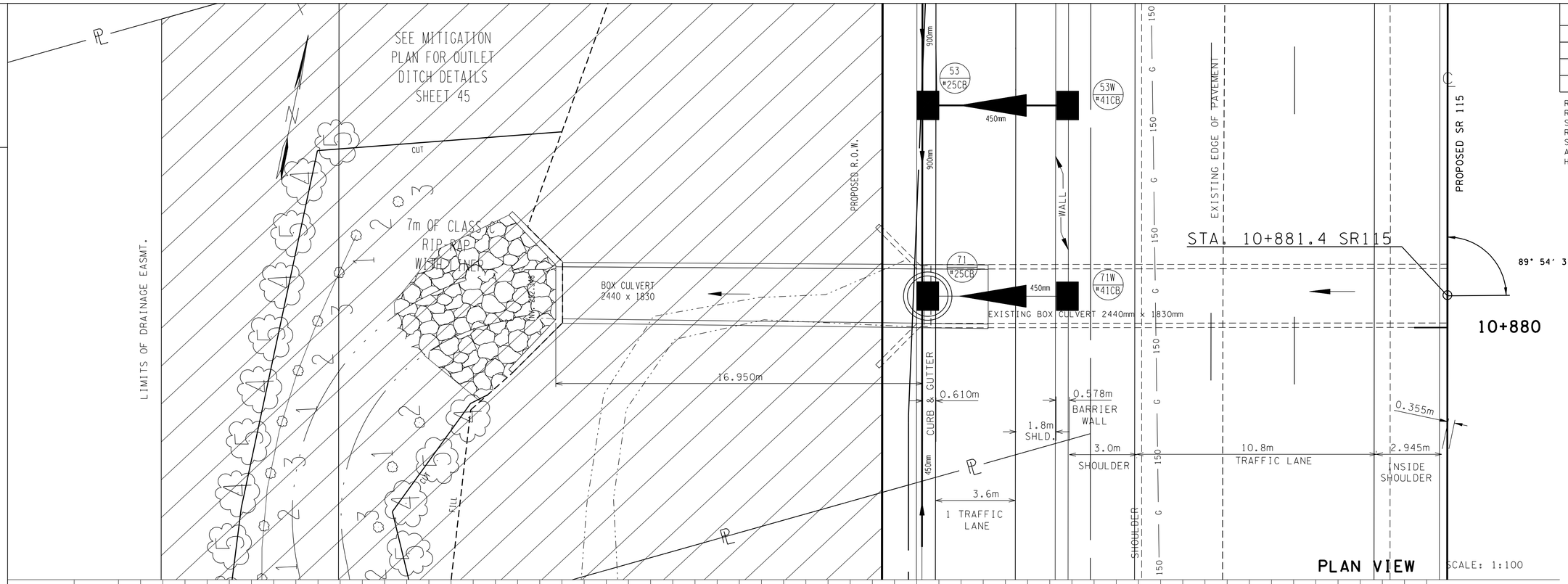
917-965
965-991

SCALE 1:100

FILE NO. ---

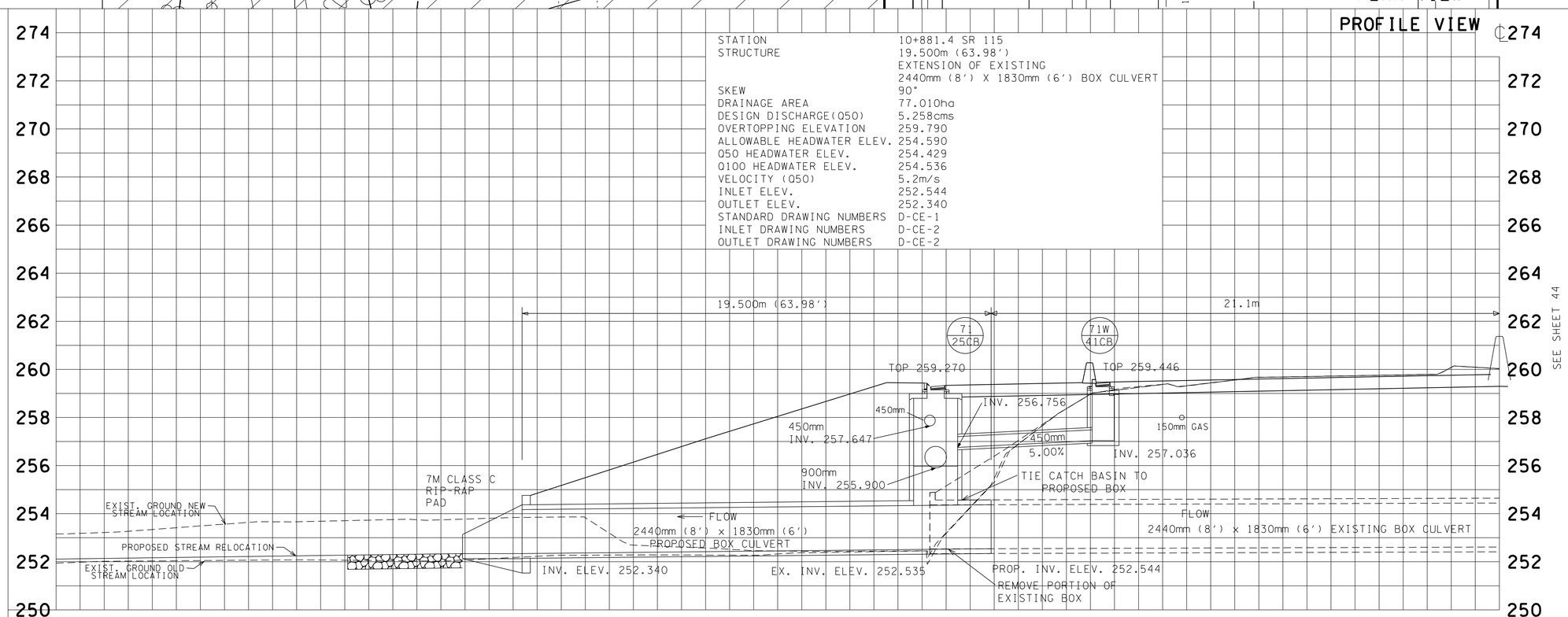
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	43
CONST.	2016	47026-3279-14	43

REV. 28-FEB-2003: REVISED SHEET NUMBER.
REV. 22-AUG-2014: REVISED BOX CULVERT SECTION STA. 10+881.400.
REV. 16-JAN.-2015: REVISED EXISTING STREAM LOCATION. ADDED STREAM RELOCATION AND TREES. REVISED STRUCTURE 71 FROM HEADWALL TO CATCH BASIN.



PROFILE VIEW

STATION	10+881.4 SR 115
STRUCTURE	19.500m (63.98') EXTENSION OF EXISTING 2440mm (8') X 1830mm (6') BOX CULVERT
SKEW	90°
DRAINAGE AREA	77.010ha
DESIGN DISCHARGE(Q50)	5.258cms
OVERTOPPING ELEVATION	259.790
ALLOWABLE HEADWATER ELEV.	254.590
Q50 HEADWATER ELEV.	254.429
Q100 HEADWATER ELEV.	254.536
VELOCITY (Q50)	5.2m/s
INLET ELEV.	252.544
OUTLET ELEV.	252.340
STANDARD DRAWING NUMBERS	D-CE-1
INLET DRAWING NUMBERS	D-CE-2
OUTLET DRAWING NUMBERS	D-CE-2



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

BOX CULVERT

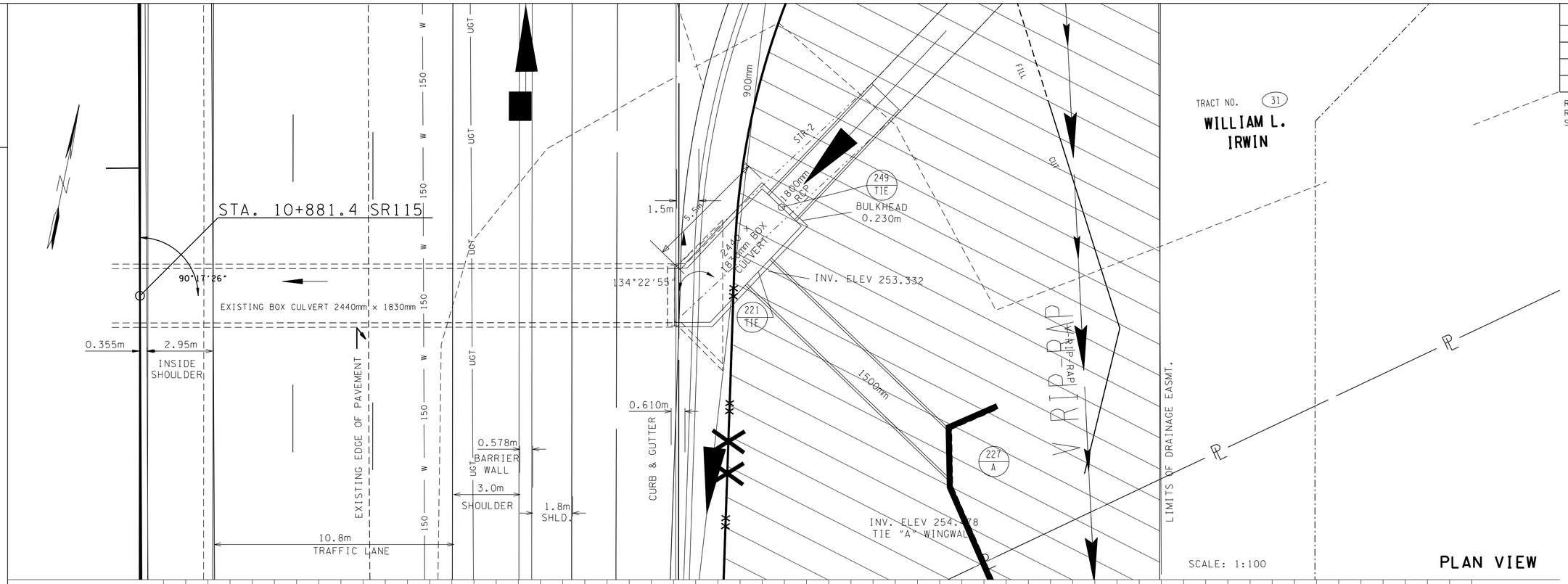
SR.115 STA. 10+881.4

SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	44
CONST.	2016	47026-3279-14	44

REV. 28-FEB-2003: REVISED SHEET NUMBER.
REV. 22-AUG-2014: REVISED BOX CULVERT SECTION STA. 10+881.400.



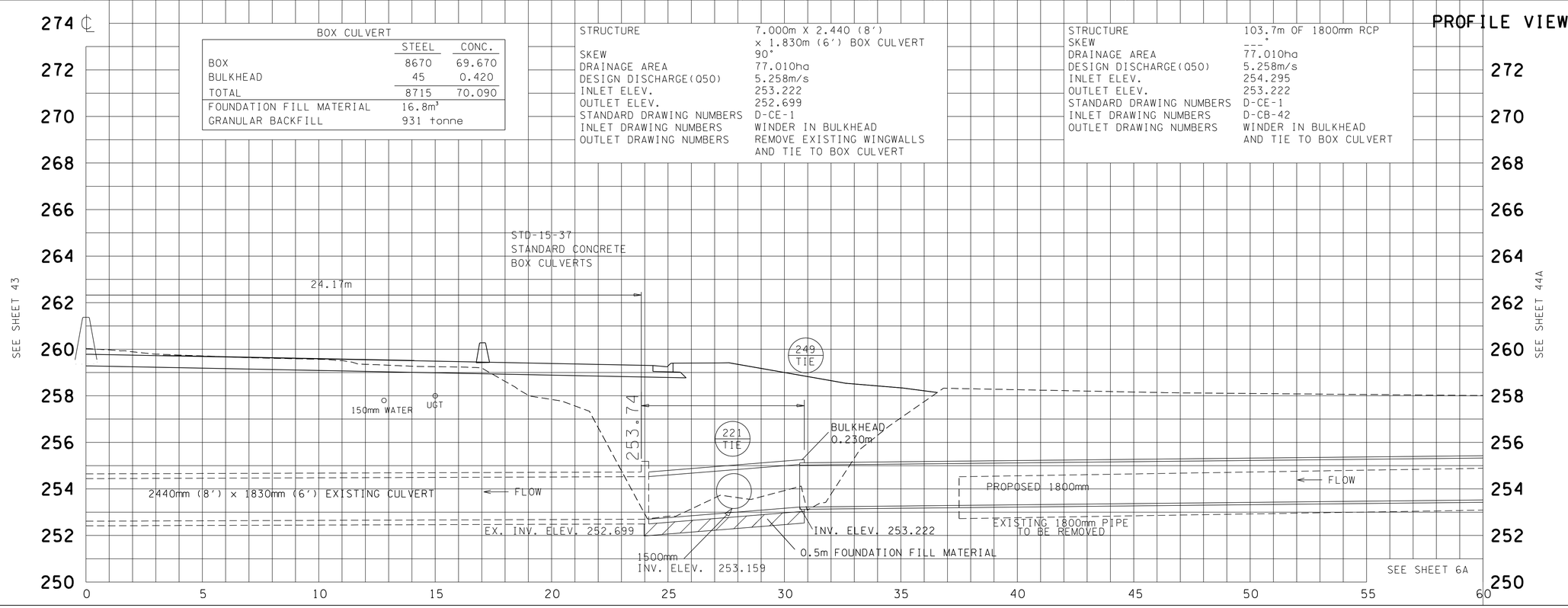
PROFILE VIEW

BOX CULVERT

	STEEL	CONC.
BOX	8670	69.670
BULKHEAD	45	0.420
TOTAL	8715	70.090
FOUNDATION FILL MATERIAL	16.8m³	
GRANULAR BACKFILL	931 tonne	

STRUCTURE	7.000m X 2.440 (8') x 1.830m (6') BOX CULVERT
SKEW	90°
DRAINAGE AREA	77.010ha
DESIGN DISCHARGE(Q50)	5.258m/s
INLET ELEV.	253.222
OUTLET ELEV.	252.699
STANDARD DRAWING NUMBERS	D-CE-1
INLET DRAWING NUMBERS	WINDER IN BULKHEAD
OUTLET DRAWING NUMBERS	REMOVE EXISTING WINGWALLS AND TIE TO BOX CULVERT

STRUCTURE	103.7m OF 1800mm RCP
SKEW	---°
DRAINAGE AREA	77.010ha
DESIGN DISCHARGE(Q50)	5.258m/s
INLET ELEV.	254.295
OUTLET ELEV.	253.222
STANDARD DRAWING NUMBERS	D-CE-1
INLET DRAWING NUMBERS	D-CB-42
OUTLET DRAWING NUMBERS	WINDER IN BULKHEAD AND TIE TO BOX CULVERT



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

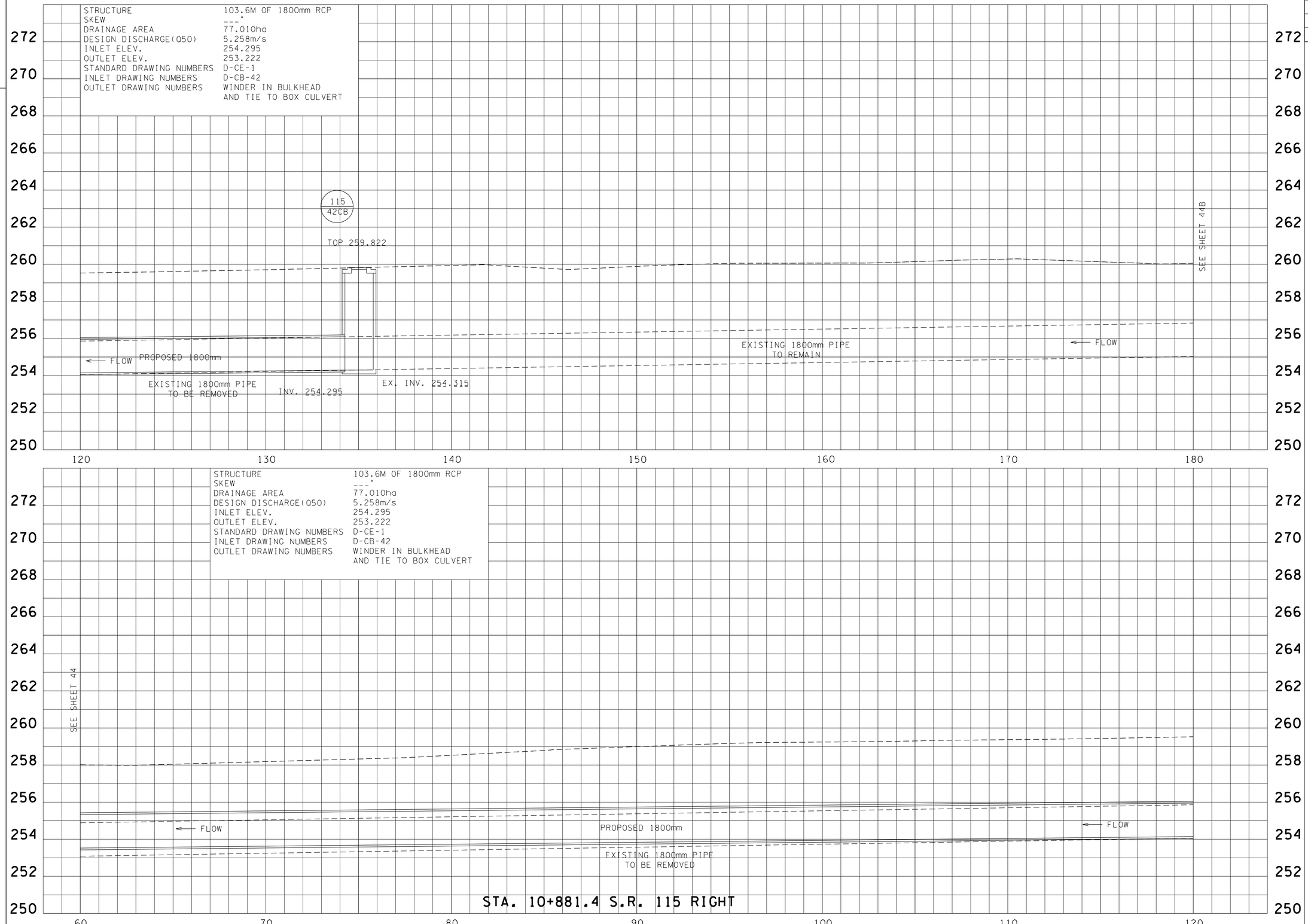
BOX CULVERT

SR.115 STA. 10+881.4

SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	44A



TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

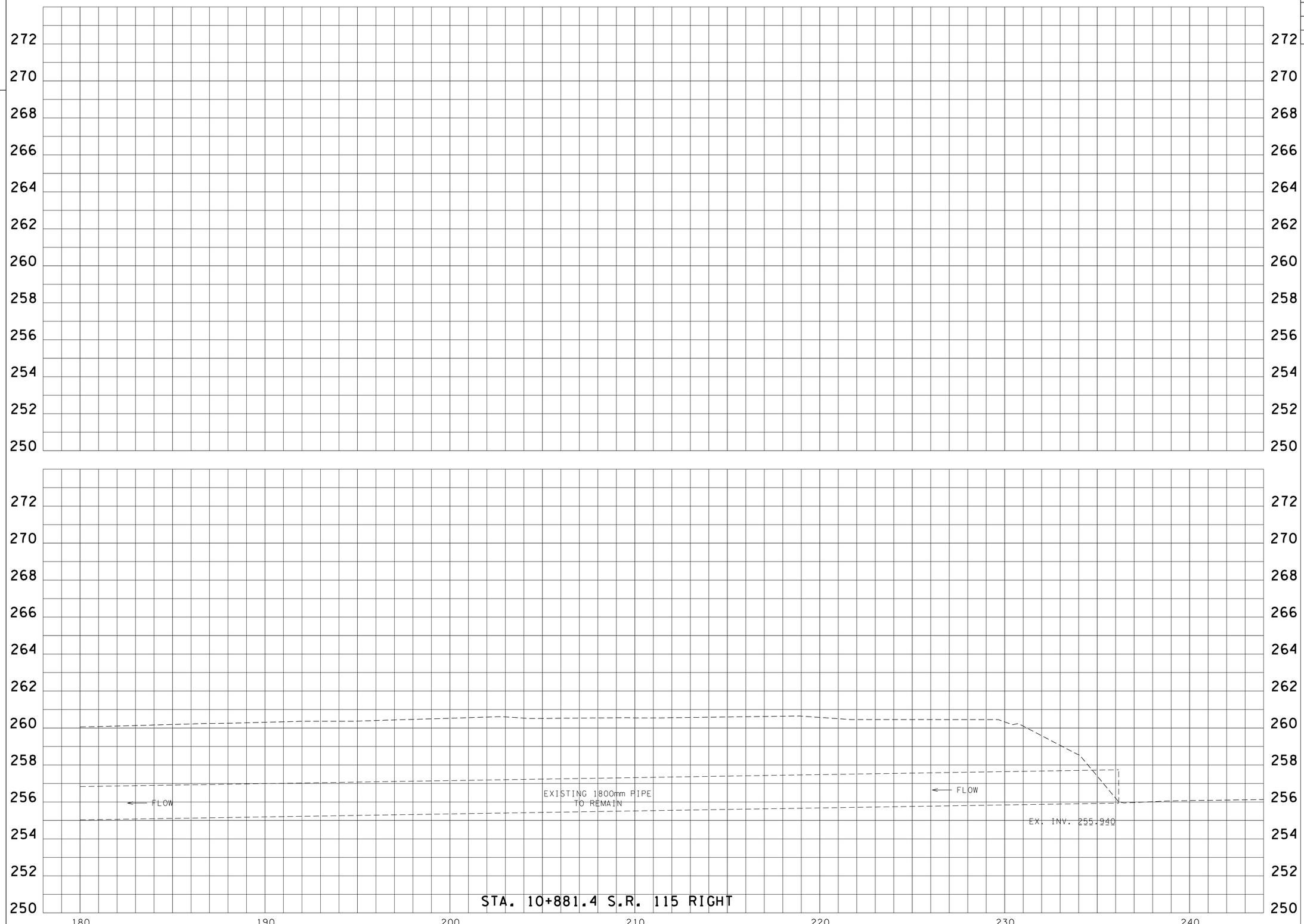
CULVERT SECTIONS

60-120
120-180

SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	44B



COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

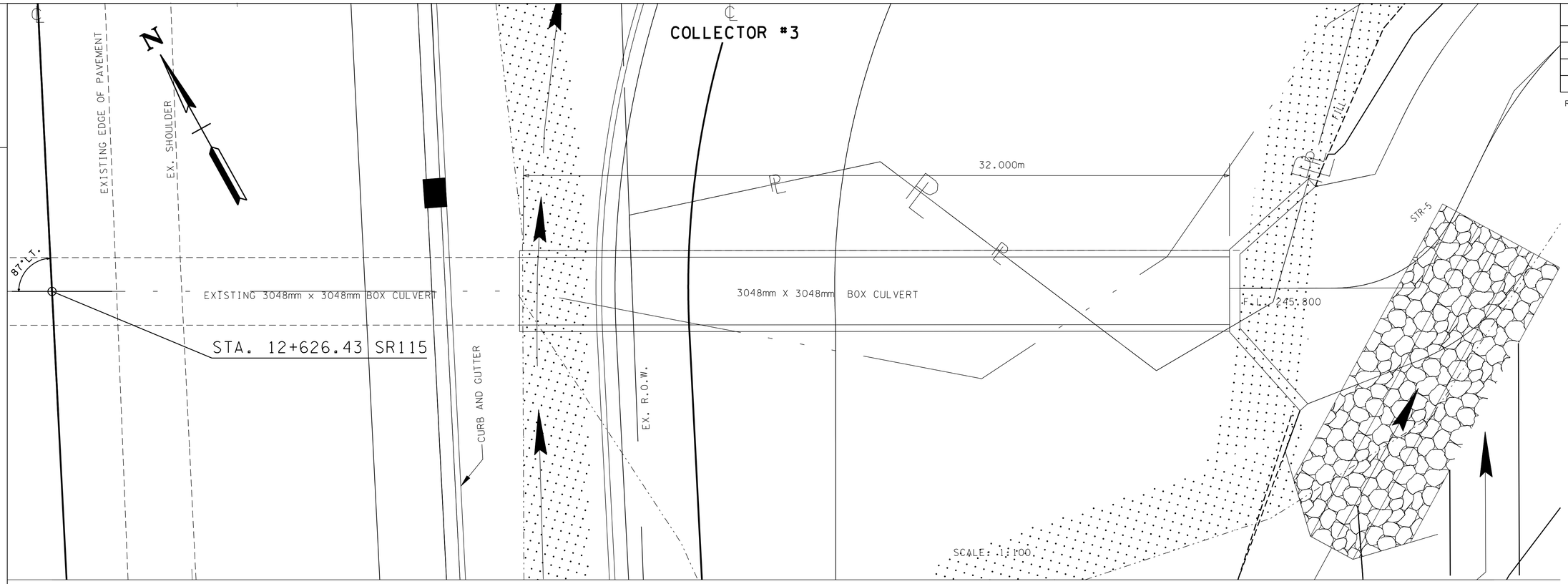
180-240

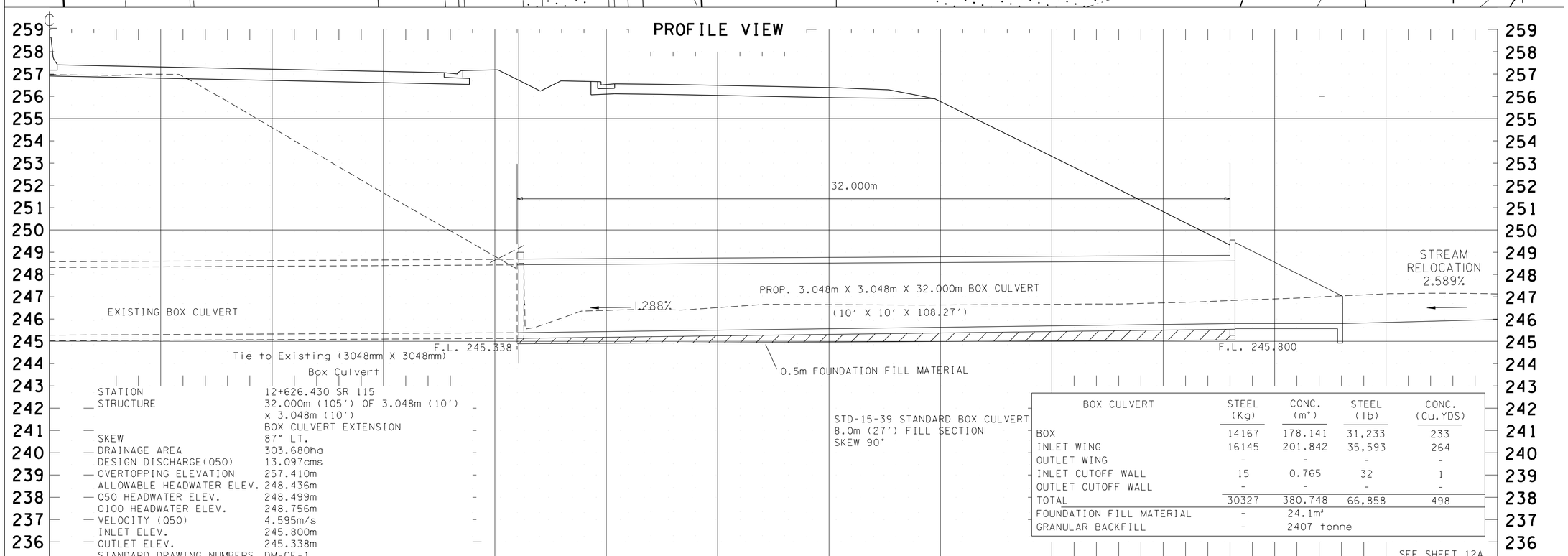
SCALE 1:100

FILE NO. ---

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	45
CONST.	2001	47026-3279-14	45

REV. 28-FEB-2003: REVISED SHEET NUMBER.





STATION	12+626.430 SR 115
STRUCTURE	32.000m (105') OF 3.048m (10') x 3.048m (10') BOX CULVERT EXTENSION
SKEW	87° LT.
DRAINAGE AREA	303.680ha
DESIGN DISCHARGE(Q50)	13.097cms
OVERTOPPING ELEVATION	257.410m
ALLOWABLE HEADWATER ELEV.	248.436m
Q50 HEADWATER ELEV.	248.499m
Q100 HEADWATER ELEV.	248.756m
VELOCITY (Q50)	4.595m/s
INLET ELEV.	245.800m
OUTLET ELEV.	245.338m
STANDARD DRAWING NUMBERS	DM-CE-1

STD-15-39 STANDARD BOX CULVERT
8.0m (27') FILL SECTION
SKEW 90°

BOX CULVERT	STEEL (Kg)	CONC. (m³)	STEEL (lb)	CONC. (Cu.YDS)
BOX	14167	178.141	31,233	233
INLET WING	16145	201.842	35,593	264
OUTLET WING	-	-	-	-
INLET CUTOFF WALL	15	0.765	32	1
OUTLET CUTOFF WALL	-	-	-	-
TOTAL	30327	380.748	66,858	498
FOUNDATION FILL MATERIAL	-	24.1m³		
GRANULAR BACKFILL	-	2407 tonne		

SEE SHEET 12A

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00010000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

BOX CULVERT

SR 115 STA. 12+626.43

SCALE 1:100

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	46

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

STRUCTURE TYPE AND STATION	209M08.02 SILT FENCE (WITH BACKING) M	209M09.01 SANDBAGS PER BAG	209M09.04 SEDIMENT FILTER BAG 4.572Mx3.048M EACH	209M20.03 POLYETHYLENE SHEETING SQ. M	303M10.01 MINERAL AGGREGATE (NO. 57) TONNE	621M03.02 TEMPORARY DRAINAGE PIPE M	709M05.05 MACHINED RIP-RAP (CLASS A-3) TONNE	709M05.06 MACHINED RIP-RAP (CLASS A-1) TONNE	709M05.09 MACHINED RIP-RAP (CLASS C) TONNE	740M10.03 GOTEXTILE (TYPE III, EROSION CONTROL) M2
TEMPORARY CONSTRUCTION EXIT										
STA. 10+475					33.6		45.36			71.74
STA. 10+530					33.6		45.36			71.74
STA. 10+615					33.6		45.36			71.74
STA. 10+700					33.6		45.36			71.74
STA. 10+782					33.6		45.36			71.74
STA. 10+855					33.6		45.36			71.74
STA. 10+910					33.6		45.36			71.74
STA. 10+915					33.6		45.36			71.74
STA. 7+000					33.6		45.36			71.74
STA. 112+180					33.6		45.36			71.74
STA. 112+185					33.6		45.36			71.74
STA. 112+680					33.6		45.36			71.74
STA. 1+108					33.6		45.36			71.74
STA. 8+090					33.6		45.36			71.74
CULVERT PROTECTION TYPE 1 & TYPE 2										
STA. 10+130					5.16			27.89		23.40
STA. 10+340					5.16			27.89		23.40
STA. 10+525					5.16			27.89		23.40
STA. 10+580					5.16			27.89		23.40
STA. 10+585					5.16			27.89		23.40
STA. 10+767					5.16			27.89		23.40
STA. 10+840					5.16			27.89		23.40
STA. 12+015					5.16			27.89		23.40
STA. 2+290					5.16			27.89		23.40
STA. 2+225					5.16			27.89		23.40
STA. 4+520					5.16			27.89		23.40
STA. 1+116					5.16			27.89		23.40
STA. 1+600					5.16			27.89		23.40
STA. 1+095					5.16			27.89		23.40
STA. 9+535					5.16			27.89		23.40
STA. 9+570					5.16			27.89		23.40
STA. 1+398					5.16			27.89		23.40
STA. 1+425					5.16			27.89		23.40
SEDIMENT FILTER BAG										
STA. 10+860	26.6		1		5.9					62.29
STA. 10+870	26.6		1		5.9					62.29
STA. 10+950	26.6		1		5.9					62.29
STA. 11+670	26.6		1		5.9					62.29
STA. 11+730	26.6		1		5.9					62.29
STA. 12+080	26.6		1		5.9					62.29
STA. 12+082	26.6		1		5.9					62.29
STA. 12+210	26.6		1		5.9					62.29
STA. 12+280	26.6		1		5.9					62.29
STA. 12+610	26.6		1		5.9					62.29
STA. 1+070	26.6		1		5.9					62.29
STA. 1+195	26.6		1		5.9					62.29
SUSPENDED PIPE DIVERSION										
STA. 10+870		1171		26.254		61			10.8	
STA. 10+860		1171		26.254		61			10.8	
STA. 10+960		1171		26.254		61			10.8	
STA. 11+690		1171		26.254		61			10.8	
STA. 6+520		1171		26.254		61			10.8	
STA. 11+900		1171		26.254		61			10.8	
STA. 12+015		1171		26.254		61			10.8	
STA. 12+020		1171		26.254		61			10.8	
STA. 11+810		1171		26.254		61			10.8	
STA. 12+228		1171		26.254		61			10.8	
STA. 12+275		1171		26.254		61			10.8	
STA. 12+380		1171		26.254		61			10.8	
STA. 12+600		1171		26.254		61			10.8	
STA. 12+625		1171		26.254		61			10.8	
STA. 1+080		1171		26.254		61			10.8	
TOTAL	(1) 957.6	17565	24	393.81	634.08	915	635.04	502.02	162	2173.04

SUMMARY EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
209M02.05	300mm TEMPORARY SLOPE DRAIN	m	563
209M03.22	FILTER SOCK (450m)	m	280
209M03.23	FILTER SOCK (600m)	m	46
209M05	SEDIMENT REMOVAL	m3	5,603
209M08.02	TEMPORARY SILT FENCE (WITH BACKING)	m	11,959
209M08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	m	14,650
209M08.07	ROCK CHECK DAM	EACH	354
209M08.08	ENHANCED ROCK CHECK DAM	EACH	92
209M08.09	FILTER SOCK CHECK DAM	EACH	22
209M09.01	SANDBAGS	BAG	17,565
209M09.04	SEDIMENT FILTER BAG (4572mm X 3048mm)	EACH	24
209M09.41	CURB INLET PROTECTION (TYPE 2)	EACH	100
209M09.43	CURB INLET PROTECTION (TYPE 4)	EACH	50
209M10.01	(0.75m x 10m x 5m) TEMPORARY DEWATERING STRUCTURE	m3	5
209M10.20	TEMPORARY SEDIMENT TRAP WITH CHECK DAM	m3	10
209M20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	m2	447
209M40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	93
209M40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	10
209M40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	34
209M40.43	CATCH BASIN FILTER ASSEMBLY(TYPE 3)	EACH	11
209M40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	2
209M40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	6
209M40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	136
209M40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	2
209M40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH	1
303M10.01	MINERAL AGGREGATE (SIZE 57) (96 ex cb)	TONNE	635
621M03.02	450mm TEMPORARY DRAINAGE PIPE	m	915
709M05.05	MACHINED RIP-RAP (CLASS A-3)		715
709M05.06	MACHINED RIP-RAP (CLASS A-1)	TONNE	503
709M05.09	MACHINED RIP-RAP (CLASS C)	TONNE	162
740M06.01	GEOMEMBRANE	m2	100
740M10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	m2	2,174
740M10.04	GEOTEXTILE (TYPE IV) STABILIZATION	m2	3,563
740M11.03	TEMPORARY SEDIMENT TUBE (450mm)	m	33,114
740M11.05	TEMPORARY SEDIMENT TUBE (600mm)	m	26,865
805M12.01	EROSION CONTROL BLANKET (TYPE I)	m2	4,338
805M12.02	EROSION CONTROL BLANKET (TYPE II)	m2	18,682

NOTE: LOCATIONS OF SCHEDULED WORK ITEMS ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER AS FIELD CONDITIONS MAY REQUIRE SEE EPSC PLANS FOR ADDITIONAL QUANITITIES AND DETAILS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN QUANTITIES

10/1/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	46A

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

SHEET NOS.	209M02.05 300mm TEMPORARY SLOPE DRAIN	209M03.22 450mm FILTER SOCK	209M03.23 600mm FILTER SOCK	209M08.02 SILT FENCE (WITH BACKING)	209M08.03 SILT FENCE (WITHOUT BACKING)	209M08.07 ROCKCHECK DAM EACH		209M08.08 ENHANCED ROCKCHECK DAM EACH		209M09.04 FILTER BAG	209M09.41 CURB INLET PROTECTION (TYPE 2)	209M09.43 CURB INLET PROTECTION (TYPE 4)	209M10.20 SEDIMENT TRAP	CATCH BASIN PROTECTION 209M40.33 (TYPE D)	CATCH BASIN FILTER ASSEMBLY								709M05.05 MACHINED RIP-RAP 1-2-3 (CLASS A-3)	740M11.05 TEMPORARY SEDIMENT TUBE 600mm
															209M40.41 (TYPE 1)	209M40.42 (TYPE 2)	209M40.43 (TYPE 3)	209M40.44 (TYPE 4)	209M40.45 (TYPE 5)	209M40.46 (TYPE 6)	209M40.47 (TYPE 7)	209M40.48 (TYPE 8)		
	M	M	M	M	M	V DITCH	T DITCH	V DITCH	T DITCH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	TONNE	M
PHASE 1																								
47	27	8	2		325	8		2	3					3										385
48		15			145	15								26										490
49		10	4		315	10		4		1				3										76
50					90									8										30
51		2	2	38		2		2						6										490
52		27	2	472	260	27		2	3				1	4									4	600
53	6	6	1	894	324	6		1	2				1	2									4	945
54	36	30	1	748		30		1	8				1										8	760
55	30	5	1	580		5		1	6														8	497
56	70		4	284	265			4	1					2									8	274
57																								
58																								0
59		7	1		40	7		1																
SUB TOTAL	169	110	18	3016	1764	110	0	18	23	1		0	3	54	0	0	0	0	0	0	0	0	32	4547
PHASE 2																								
60		6	2		515	6		2	1											5				
61		16	6	156	512	16		6							2	9	1	1	1	29	1			
62		19			140	19				1					3	3				28		1	8	
63		6			308	6				1										22	1			
64	6	8	3		70	8		3								5				15				
65	63	30	7	110	90	30	4	7		1						5	5			4			16	
66	100	27	1	76		27		1	14	2			1			8	5			2				
67	160	30	1	140		30		1	7	2			1		4	2				16			8	130
68		5	2		250	5	9	2	1	1								1	2	13				210
69	25	16	6	169	310	16	2	6		2					1	2			1				8	
70																				2				
71																								
72	40	7			110	7																	8	
SUB TOTAL	394	170	28	651	2305	170	15	28	23	10		0	2	0	10	34	11	2	4	136	2	1	48	340
PHASE 3																								
73												6		2										40
74												38		4										190
75												30		3										50
76												22		1										
77												19		1										100
78												5		7										510
79												7		7										1608
80												14		6					2					823
81												9		4										305
82														4										442
83																								
84																								
85																								
SUB TOTAL	0			0	0	0	0	0	0			150	0	39	0	0	0	0	2	0	0	0	0	4068
TOTAL	563	280	46	3667	4069	280	15	46	46	11		150	5	93	10	34	11	2	6	136	2	1	80	8955
ADJ. TOTAL	563	280	46	(1) 11001	(1) 12207	295		92		(3) 22		150	5	93	10	34	11	2	6	136	2	1	80	(1) 26865

1. QUANTITY MULTIPLIED BY 3 FOR PROJECT DURATION REPLACEMENT. (SEE SECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.)
2. SEE CROSS DRAIN TABULATION & RIP-RAP DITCH TABLE FOR OTHER CLASS A-1 RIP-RAP.
3. SEE PHASE CONSTRUCTION SHEETS FOR LOCATION OF CONTROL ITEMS

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SFB SFB SFB	SEDIMENT FILTER BAG	ECM-STR-2
SF SF SF	SILT FENCE	ECM-STR-3B
SFB SFB SFB	SILT FENCE WITH WIRE BACKING	ECM-STR-3C
	ROCK CHECK DAM (V-DITCH)	ECM-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	ECM-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	ECM-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	ECM-STR-6A

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	ECM-STR-7
SOCK SOCK	FILTER SOCK	ECM-STR-8
	CULVERT PROTECTION (TYPE 1)	ECM-STR-11
	CULVERT PROTECTION (TYPE 2)	ECM-STR-11A
D	CATCH BASIN PROTECTION (TYPE D)	ECM-STR-19
TCE	TEMPORARY CONSTRUCTION EXIT	ECM-STR-25
	TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM	ECM-STR-27

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	ECM-STR-31
	TEMPORARY DIVERSION CULVERT (DESCRIBE NUMBER AND SIZE OF PIPES)	ECM-STR-32
	SAND BAG BERM	ECM-STR-33
	SUSPENDED PIPE DIVERSION	ECM-STR-33 ECM-STR-33A
	EROSION CONTROL BLANKET	ECM-STR-34
TUBE TUBE	SEDIMENT TUBE	ECM-STR-37

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
2	CURB INLET PROTECTION (TYPE 2)	ECM-STR-39
4	CURB INLET PROTECTION (TYPE 4)	ECM-STR-39A
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	ECM-STR-41
2	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	ECM-STR-42
3	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	ECM-STR-43
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	ECM-STR-44

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
5	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	ECM-STR-45
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	ECM-STR-46
7	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	ECM-STR-47
8	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	ECM-STR-48

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN QUANTITIES

10/1/2015
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	46B
CONST.	2016	47026-3279-14	46B

REV. 24-APR.-2015: ADDED SHEET.
REV. 17-SEP-2015: REVISED NOTES.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

(2) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

NPDES

(3) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(4) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(5) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

(6) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(7) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

(8) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.

(9) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

UTILITY RELOCATION

(10) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.

(11) SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY

(12) UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO UTILITIES IN THIS PROJECT IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC). THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP).

(13) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM THEIR OPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

(14) FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOIL OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.

(15) IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT, THEREFORE, THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTIONS PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.

(16) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

(17) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.

(18) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).

(19) THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO REPLACE IN-PLACE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT PROJECT ENGINEER BEFORE COMMENCING WORK.

SEALED BY

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	47
CONST.	2016	47026-3279-14	47

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

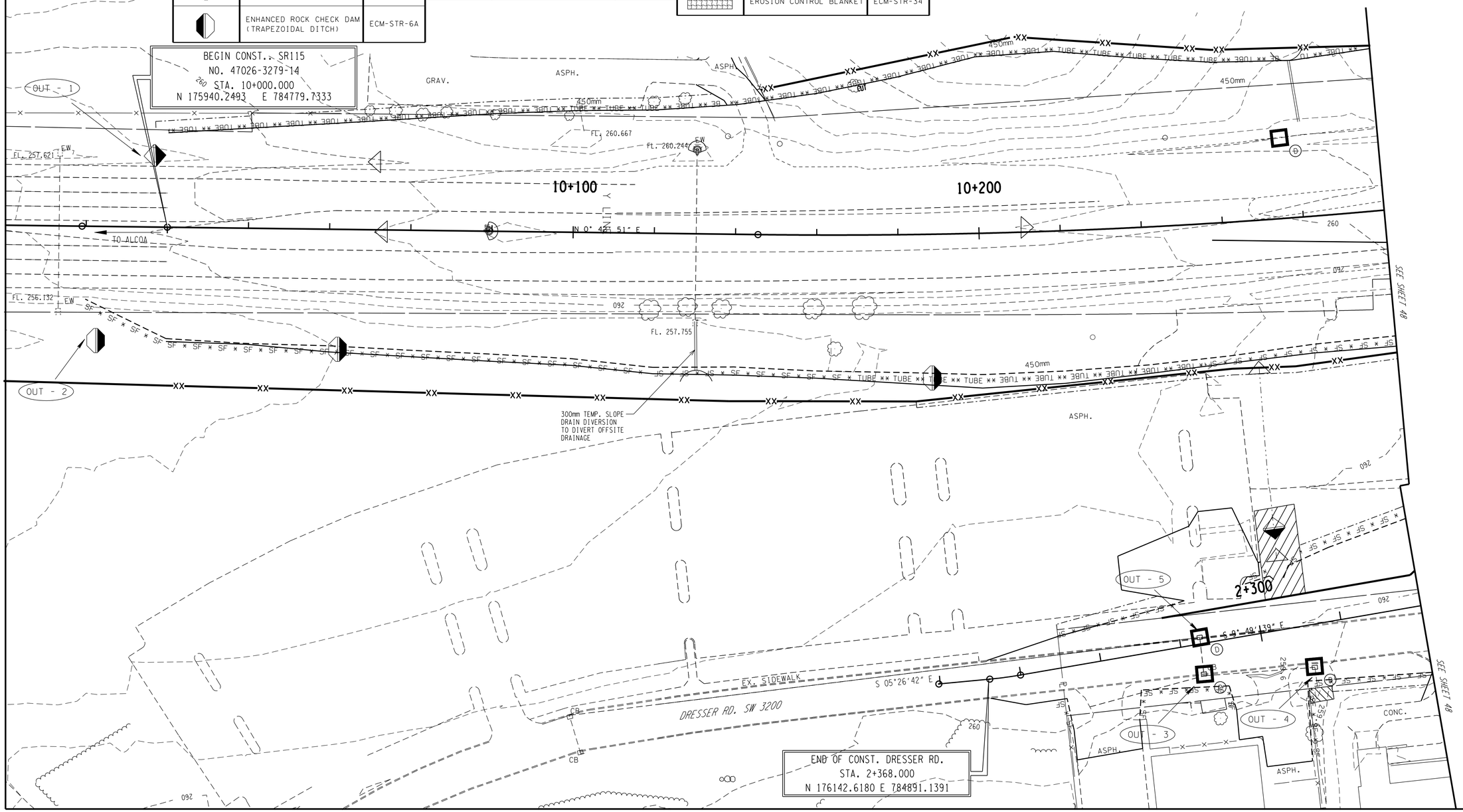
SYMBOL	ITEM	STD. DWG.
SFB	SEDIMENT FILTER BAG	ECM-STR-2
* SF * SF * SF *	SILT FENCE	ECM-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	ECM-STR-3C
	ROCK CHECK DAM (V-DITCH)	ECM-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	ECM-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	ECM-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	ECM-STR-6A

SYMBOL	ITEM	STD. DWG.
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	ECM-STR-7
** SOCK ** SOCK **	FILTER SOCK	ECM-STR-8
	CULVERT PROTECTION (TYPE 1)	ECM-STR-11
	CULVERT PROTECTION (TYPE 2)	ECM-STR-11A
D	CATCH BASIN PROTECTION (TYPE D)	ECM-STR-19
TCE	TEMPORARY CONSTRUCTION EXIT	ECM-STR-25

SYMBOL	ITEM	STD. DWG.
	TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM	ECM-STR-27
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	ECM-STR-31
	TEMPORARY DIVERSION CULVERT (DESCRIBE NUMBER AND SIZE OF PIPES)	ECM-STR-32
	SAND BAG BERM	ECM-STR-33
	SUSPENDED PIPE DIVERSION	ECM-STR-33 ECM-STR-33A
	EROSION CONTROL BLANKET	ECM-STR-34

SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	ECM-STR-37
ALL SEDIMENT TUBES SHALL BE 450mm (18")		
4	CURB INLET PROTECTION (TYPE 4)	ECM-STR-39A
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	ECM-STR-41
2	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	ECM-STR-42
3	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	ECM-STR-43

SYMBOL	ITEM	STD. DWG.
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	ECM-STR-44
5	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	ECM-STR-45
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	ECM-STR-46
7	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	ECM-STR-47
8	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	ECM-STR-48



STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

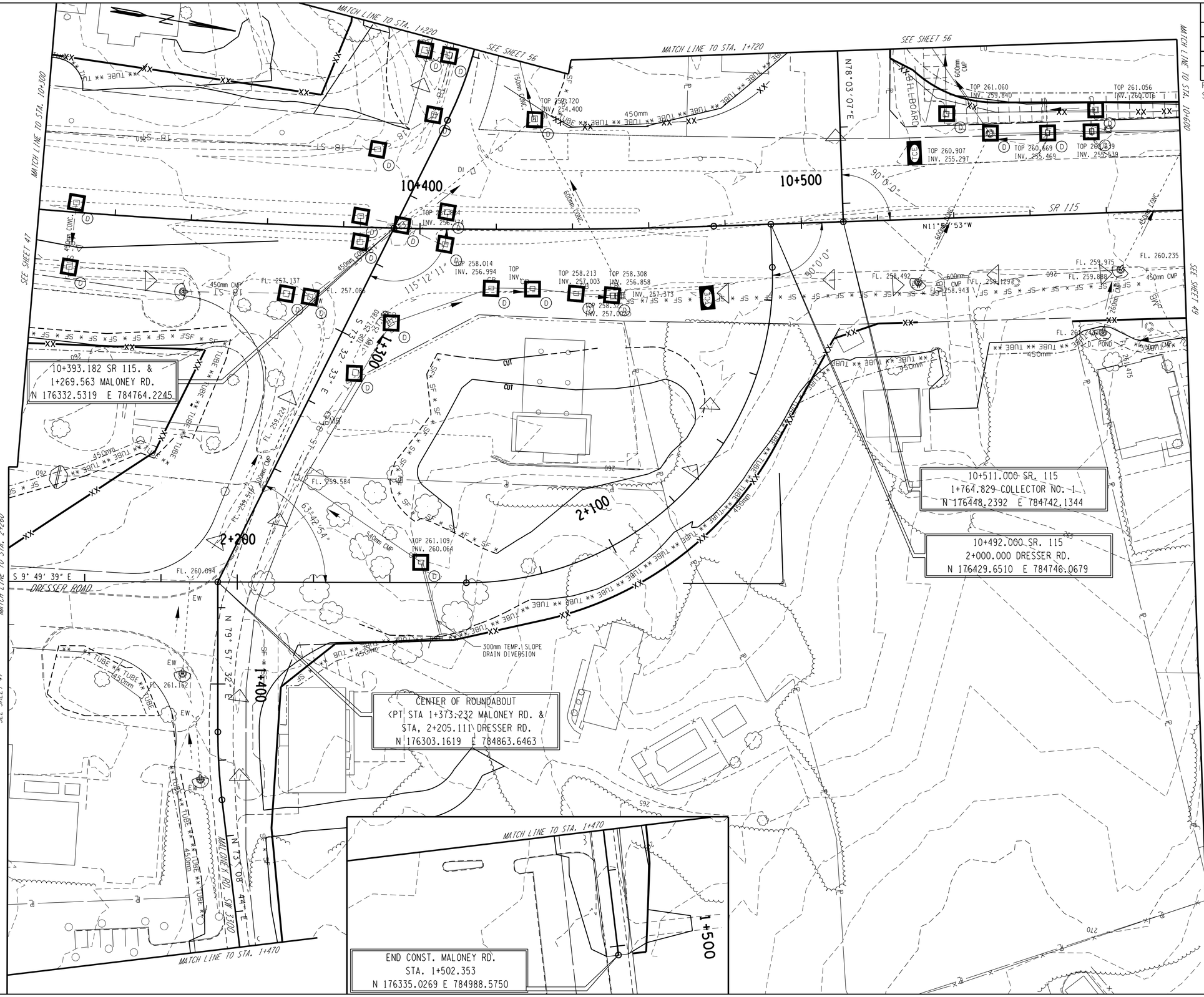
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 10+000 - STA. 10+300
STA. 2+260 - STA. 2+368

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	48
CONST.	2016	47026-3279-14	48

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS



METRIC

STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

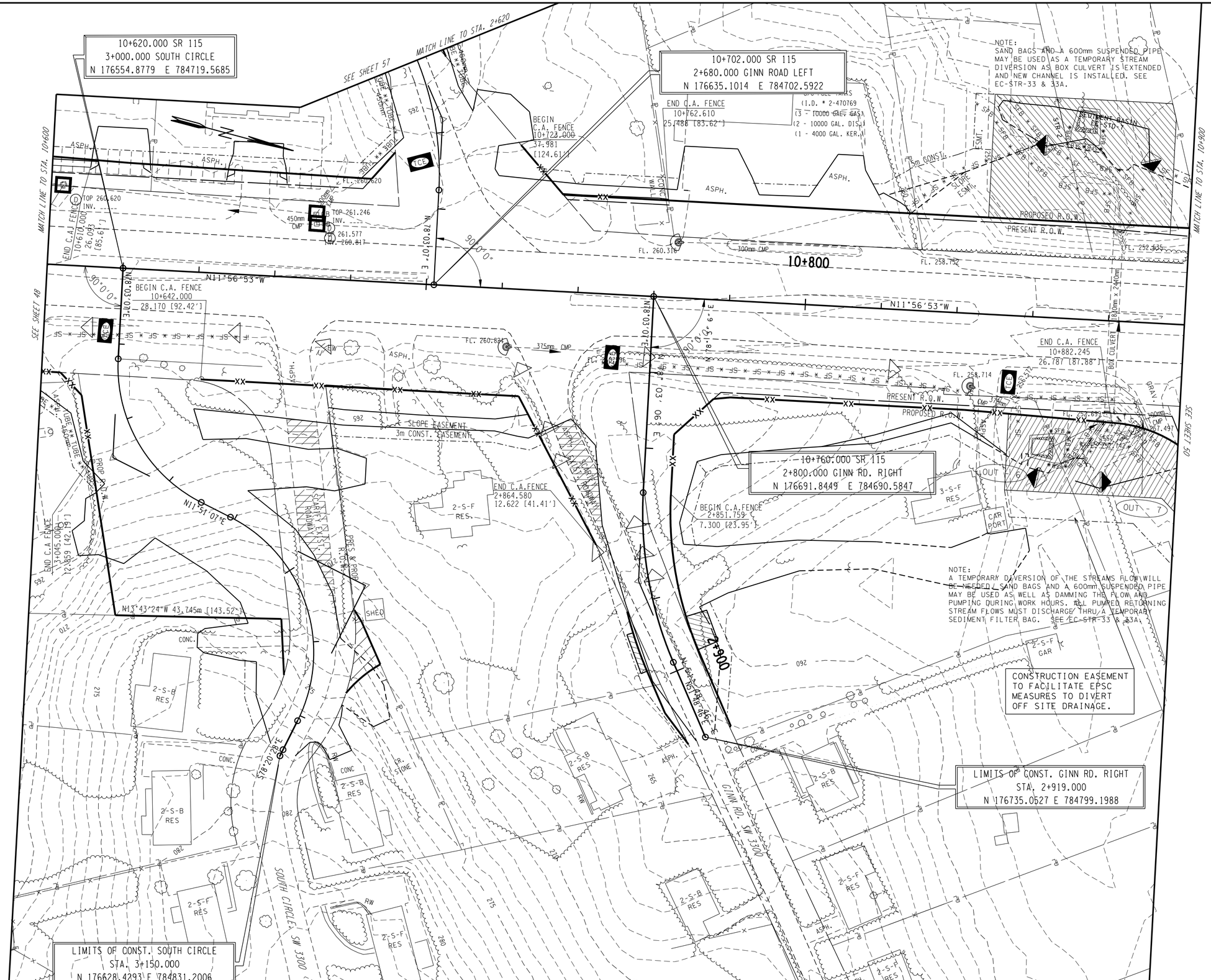
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 10+300 - STA. 10+600
STA. 1+220 - STA. 1+503
STA. 1+720 - STA. 1+764.829
STA.2+000 - STA. 2+260
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	49
CONST.	2016	47026-3279-14	49

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 16-JAN.-2015: TRACT 28S ADDED DRAINAGE EASEMENT, REVISED SLOPE AND CONSTRUCTION EASEMENT. REVISED EXISTING STREAM LOCATION.



STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

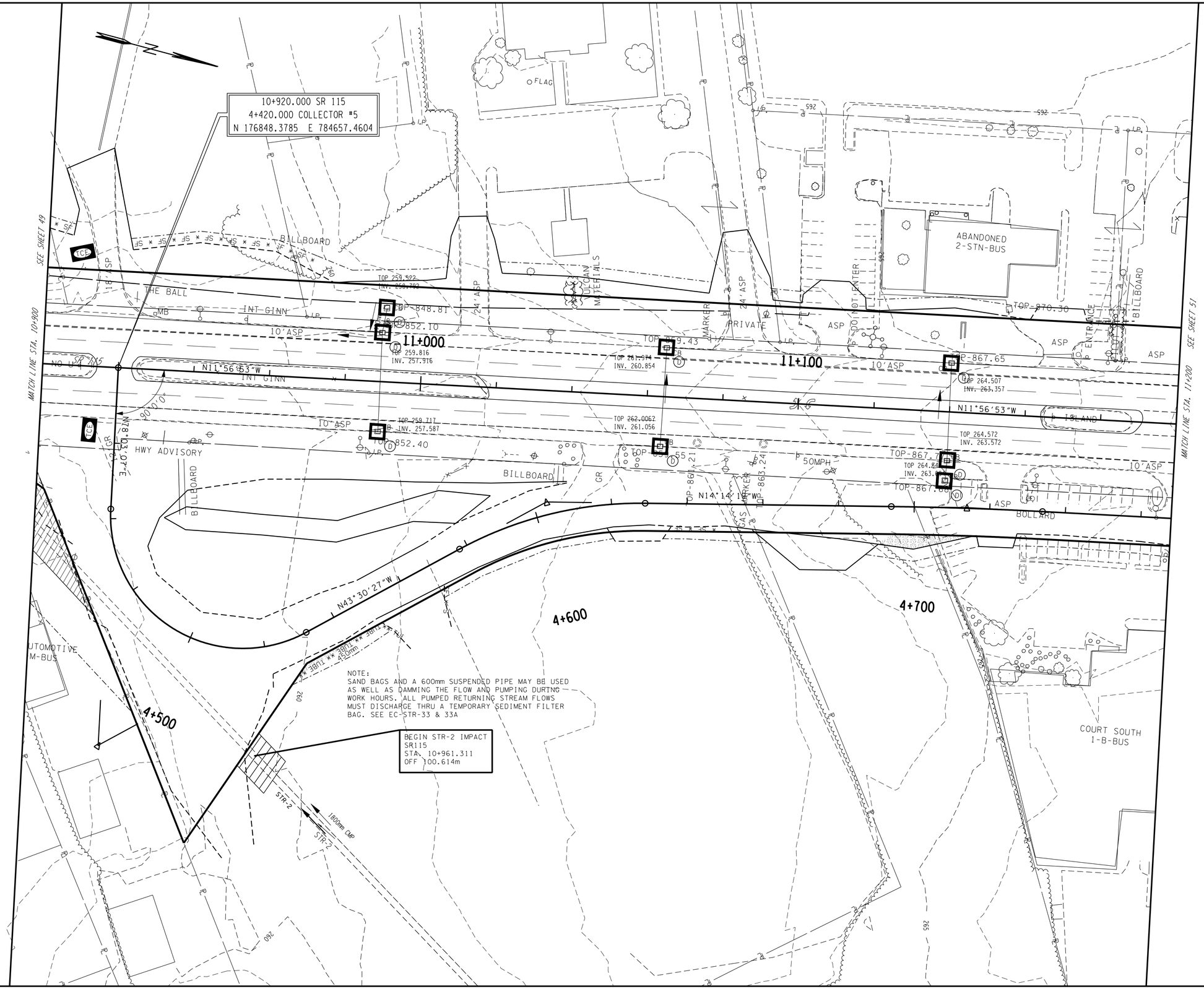
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.10+600 - STA.10+900
STA.2+620 - STA.2+680
STA.2+800 - STA.2+919
STA.3+000 - STA.3+115

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	50
CONST.	2016	47026-3279-14	50

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS



STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

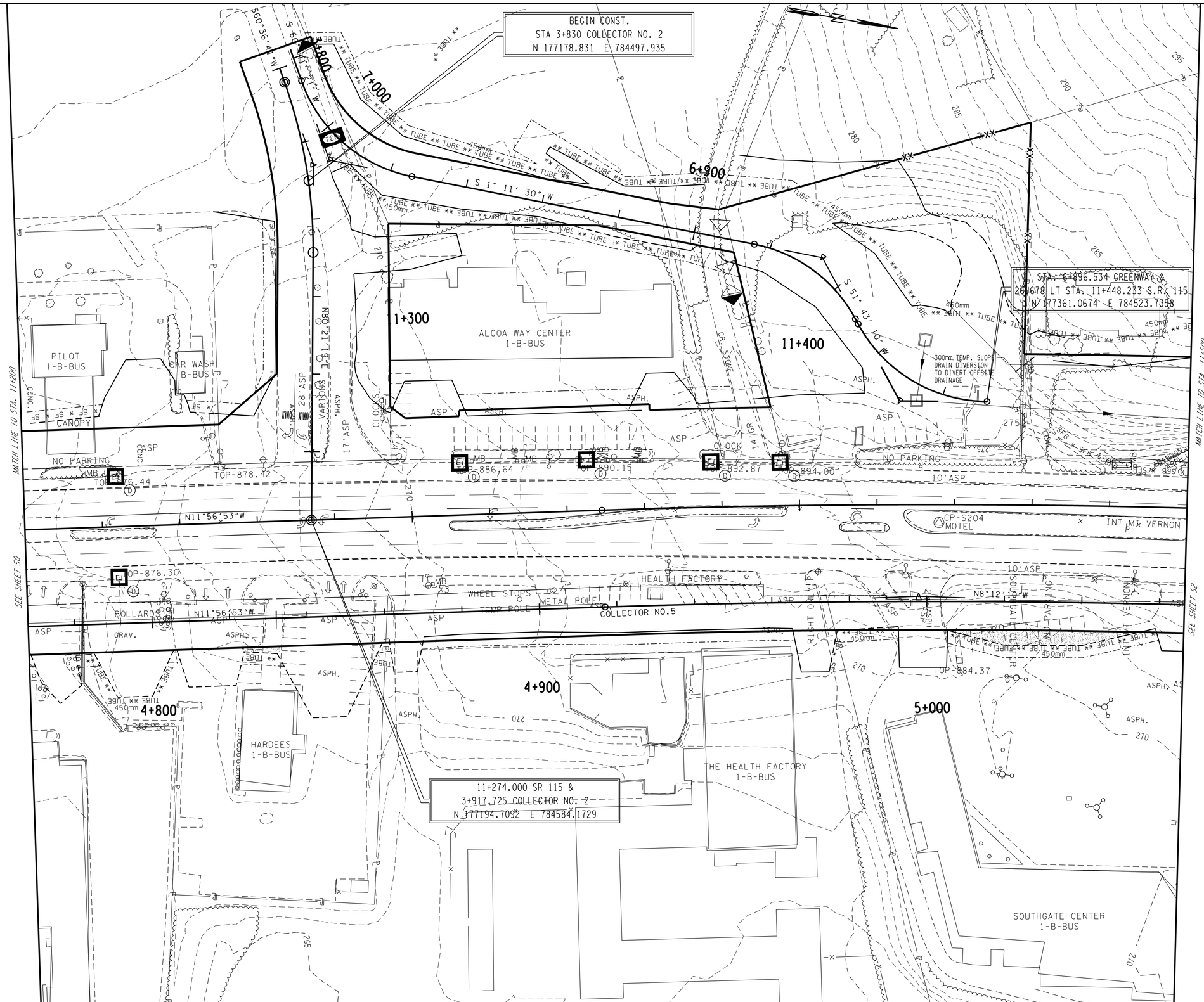
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 10+900 - STA. 11+200
STA. 3+700 - STA. 4+179.162

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	51
CONST.	2016	47026-3279-14	51

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS



STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

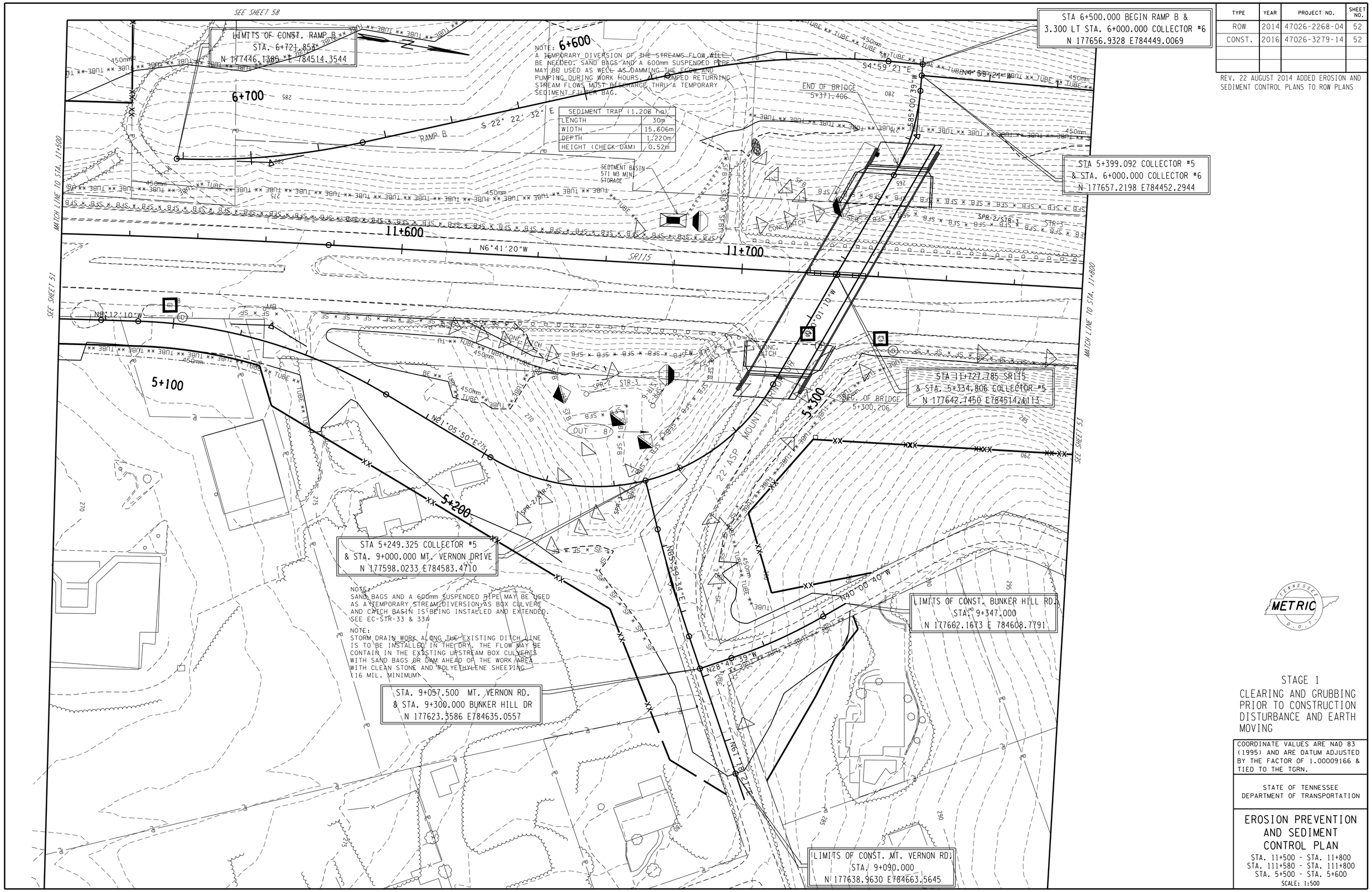
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+200 - STA. 11+500
STA. 3+820 - STA. 4+917.725

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	52
CONST.	2016	47026-3279-14	52

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS



NOTE:
A TEMPORARY DIVERSION OF THE STREAMS FLOW WILL BE NEEDED. SAND BAGS AND A 600mm SUSPENDED PIPE MAY BE USED AS WELL AS DAMMING THE FLOW AND PUMPING DURING WORK HOURS. A PUMPED RETURNING STREAM FLOWS MUST DISCHARGE THRU A TEMPORARY SEDIMENT FILTER BAG.

SEDIMENT TRAP (1.208 ha)	
LENGTH	30m
WIDTH	15.606m
DEPTH	1.220m
HEIGHT (CHECK-DAM)	0.52m

NOTE:
SAND BAGS AND A 600mm SUSPENDED PIPE MAY BE USED AS A TEMPORARY STREAM DIVERSION AS BOX CULVERT AND CATCH BASIN IS BEING INSTALLED AND EXTENDED. SEE EC-STR-33 & 33A

NOTE:
STORM DRAIN WORK ALONG THE EXISTING DITCH LINE IS TO BE INSTALLED IN THE DRY. THE FLOW MAY BE CONTAIN IN THE EXISTING UPSTREAM BOX CULVERTS WITH SAND BAGS OR DAM AHEAD OF THE WORK AREA WITH CLEAN STONE AND POLYETHYLENE SHEETING (16 MIL. MINIMUM)

STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

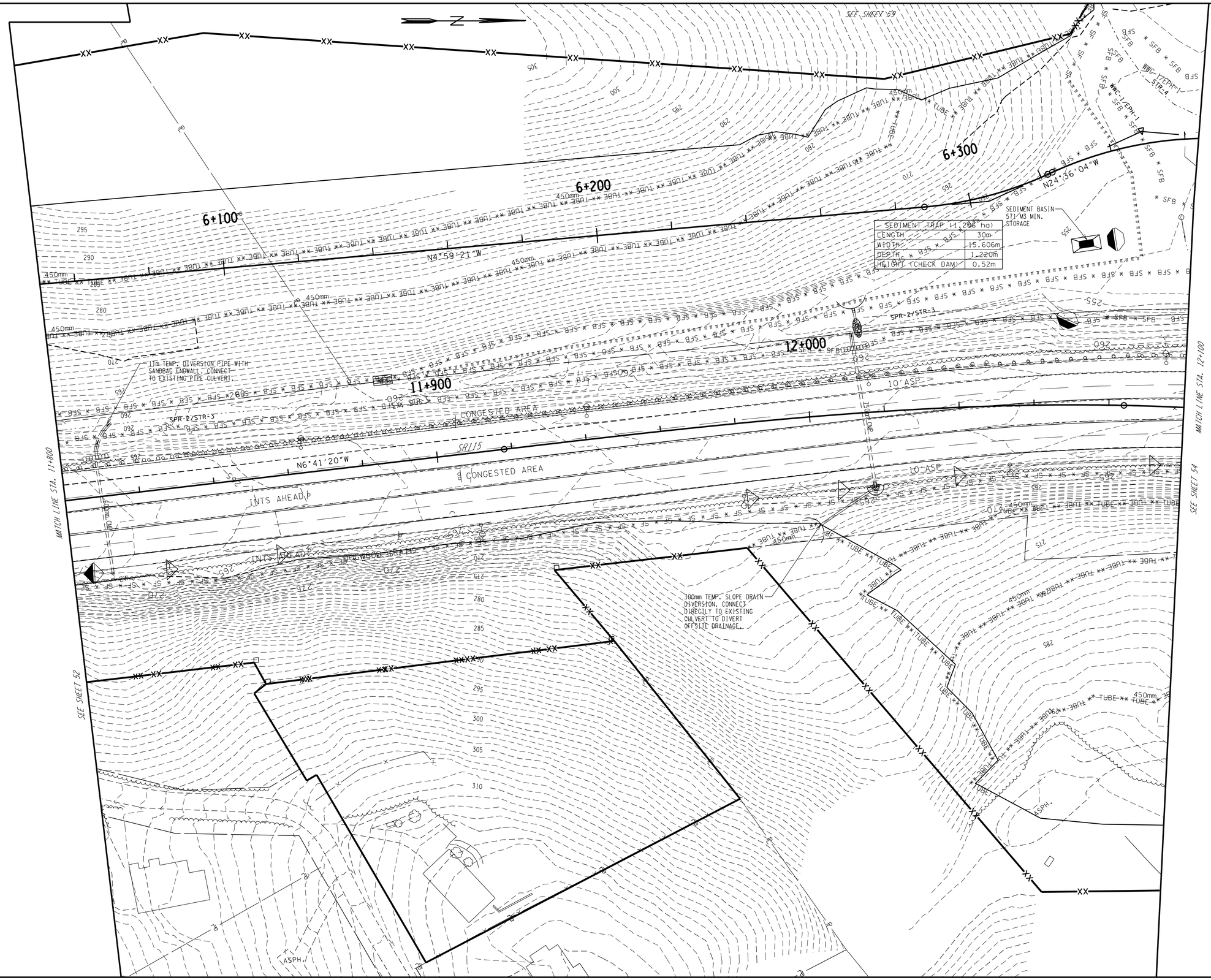
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+500 - STA. 11+800
STA. 111+580 - STA. 111+800
STA. 5+500 - STA. 5+600

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	53
CONST.	2016	47026-3279-14	53

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS



STAGE 1

CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

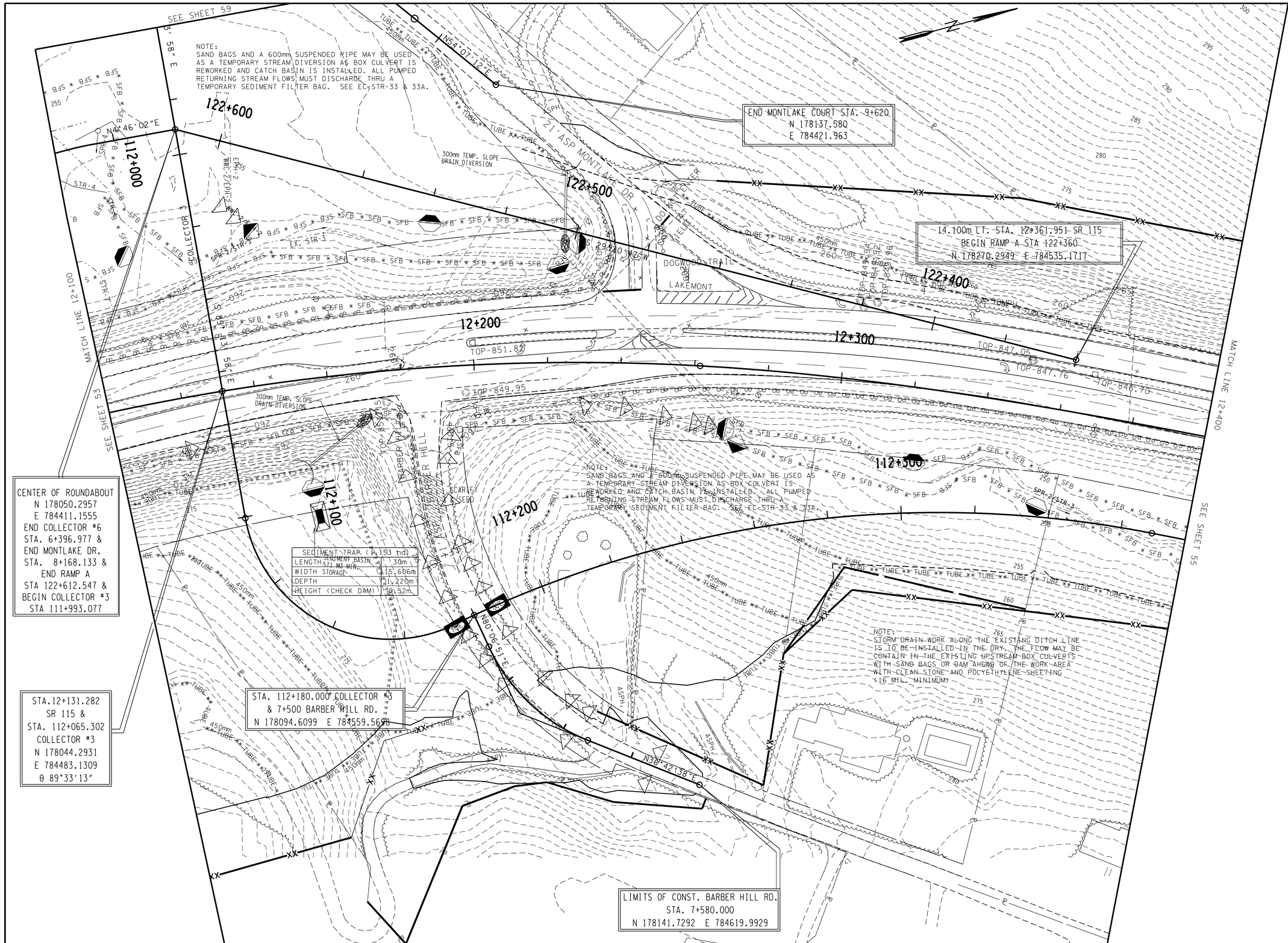
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+800 - STA. 12+100
STA. 111+800 - STA. 112+100
STA. 122+640 - STA. 122+955

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	54
CONST.	2016	47026-3279-14	54

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. NORTH OF MALONEY ROAD.



STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

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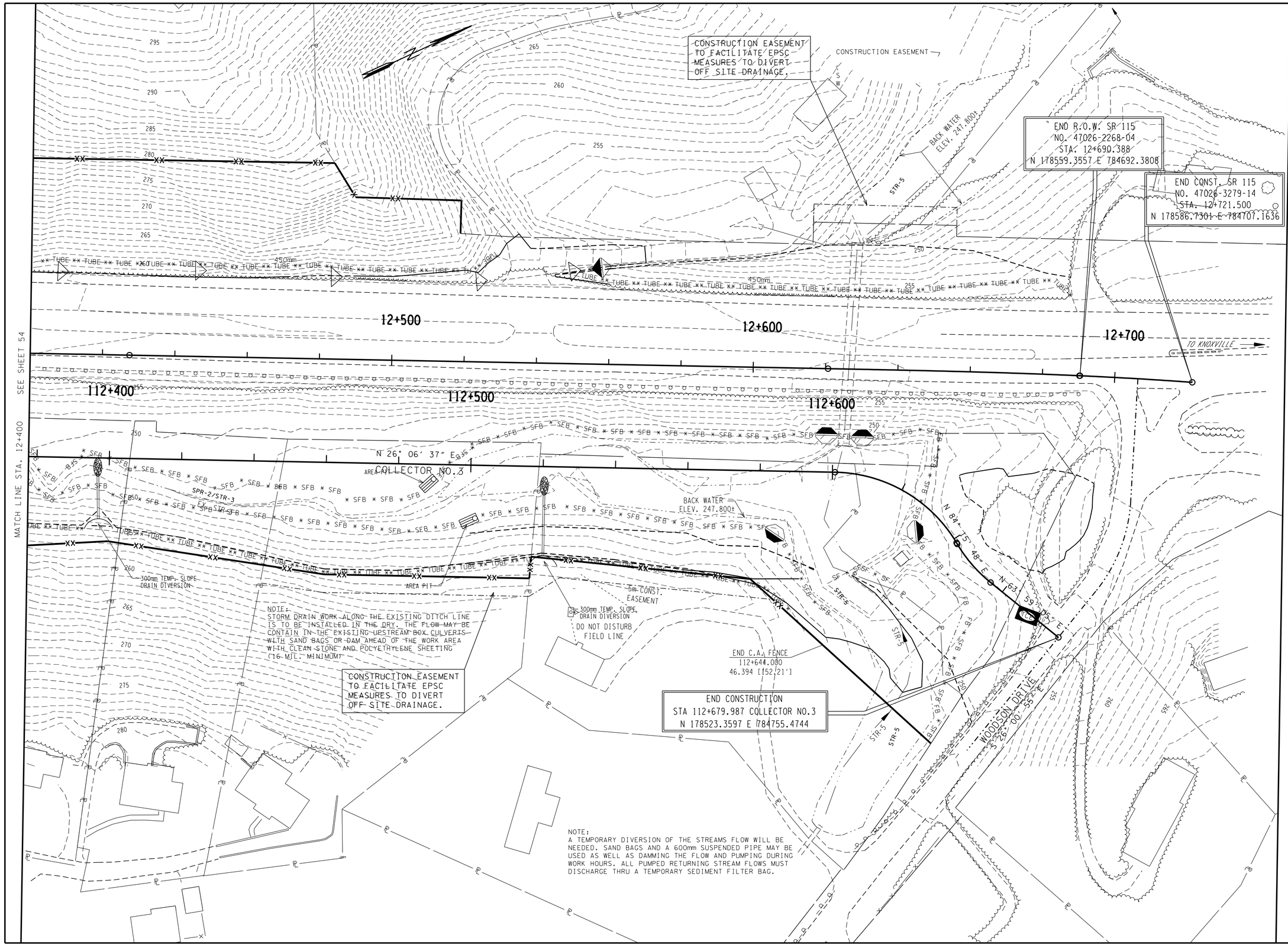
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 12+100 - STA. 12+400
STA.112+100 - STA. 112+380
STA.122+360 - STA. 122+640
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	55
CONST.	2016	47026-3279-14	55

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS



NOTE:
STORM DRAIN WORK ALONG THE EXISTING DITCH LINE IS TO BE INSTALLED IN THE DRY. THE FLOW MAY BE CONTAIN IN THE EXISTING UPSTREAM BOX CULVERTS WITH SAND BAGS OR DAM AHEAD OF THE WORK AREA WITH CLEAN STONE AND POLYETHYLENE SHEETING (16 MIL. MINIMUM)

CONSTRUCTION EASEMENT TO FACILITATE EPSC MEASURES TO DIVERT OFF SITE DRAINAGE.

NOTE:
A TEMPORARY DIVERSION OF THE STREAMS FLOW WILL BE NEEDED. SAND BAGS AND A 600mm SUSPENDED PIPE MAY BE USED AS WELL AS DAMMING THE FLOW AND PUMPING DURING WORK HOURS. ALL PUMPED RETURNING STREAM FLOWS MUST DISCHARGE THRU A TEMPORARY SEDIMENT FILTER BAG.

STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

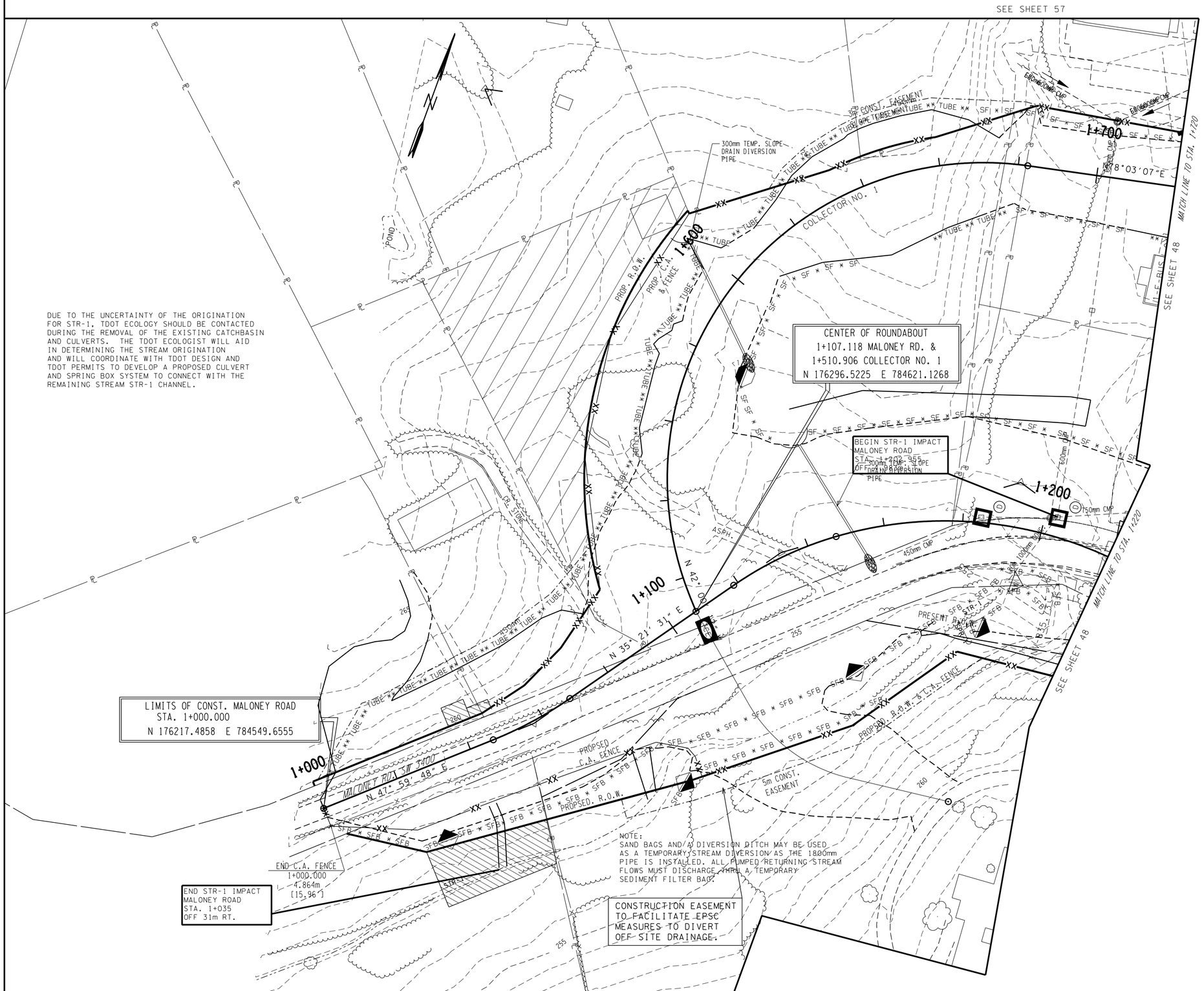
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.12+400 - STA.12+740

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	56
CONST.	2016	47026-3279-14	56

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS



STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

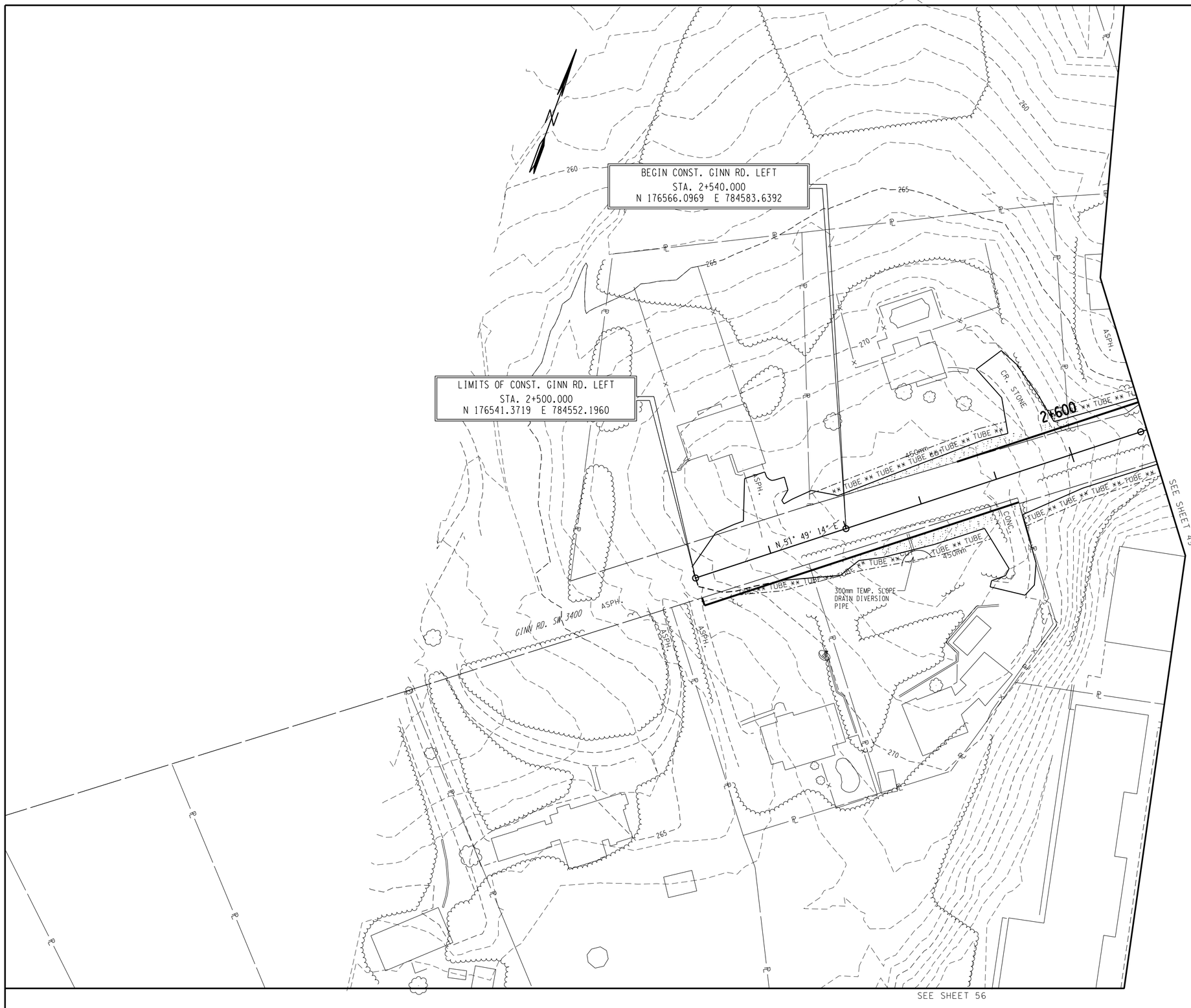
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.1+000 - STA. 1+220
STA.1+500 - STA. 1+720

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	57
CONST.	2016	47026-3279-14	57

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS



STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

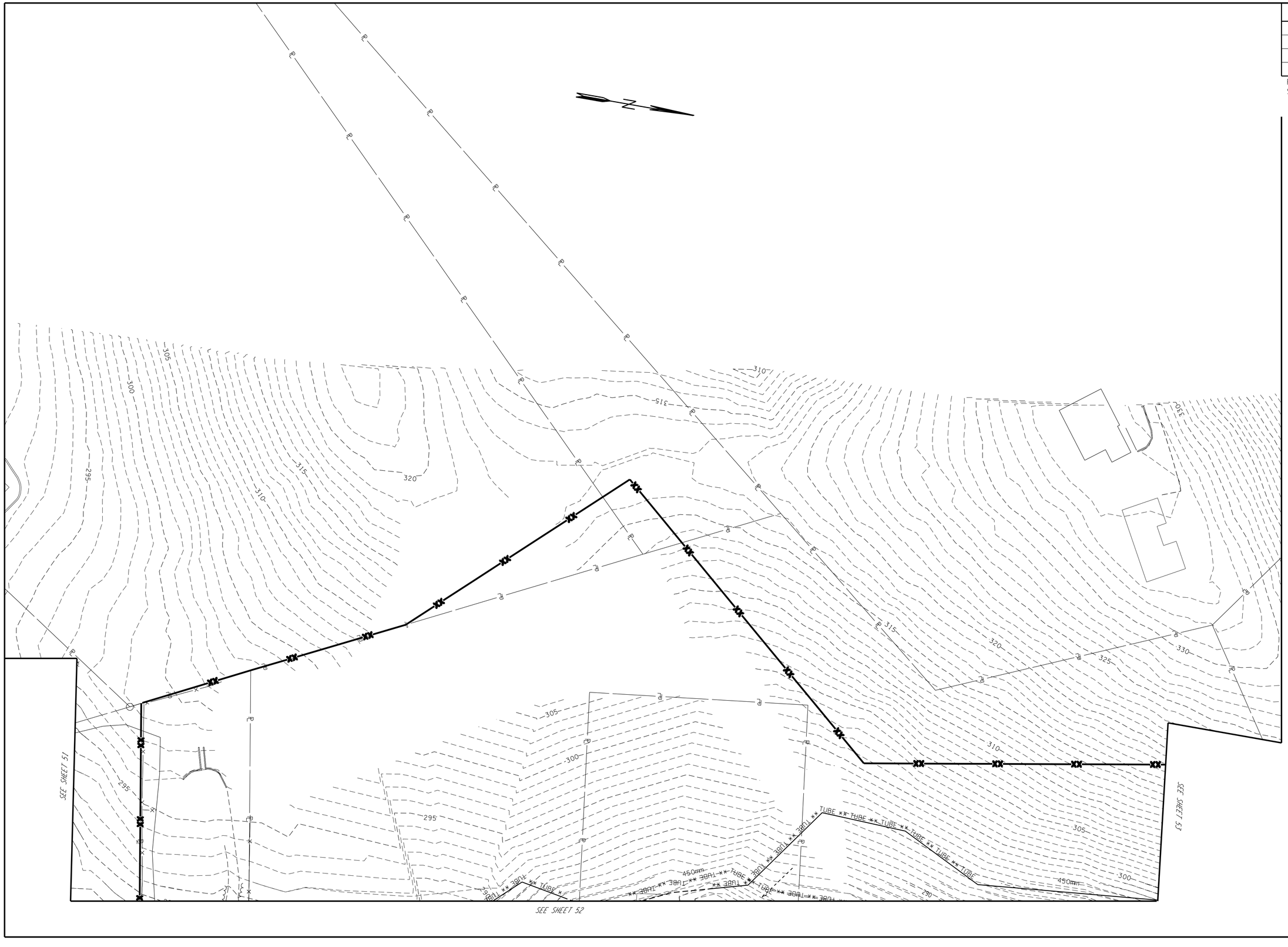
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 2+500 - STA. 2+620

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	58
CONST.	2016	47026-3279-14	58

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS



STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

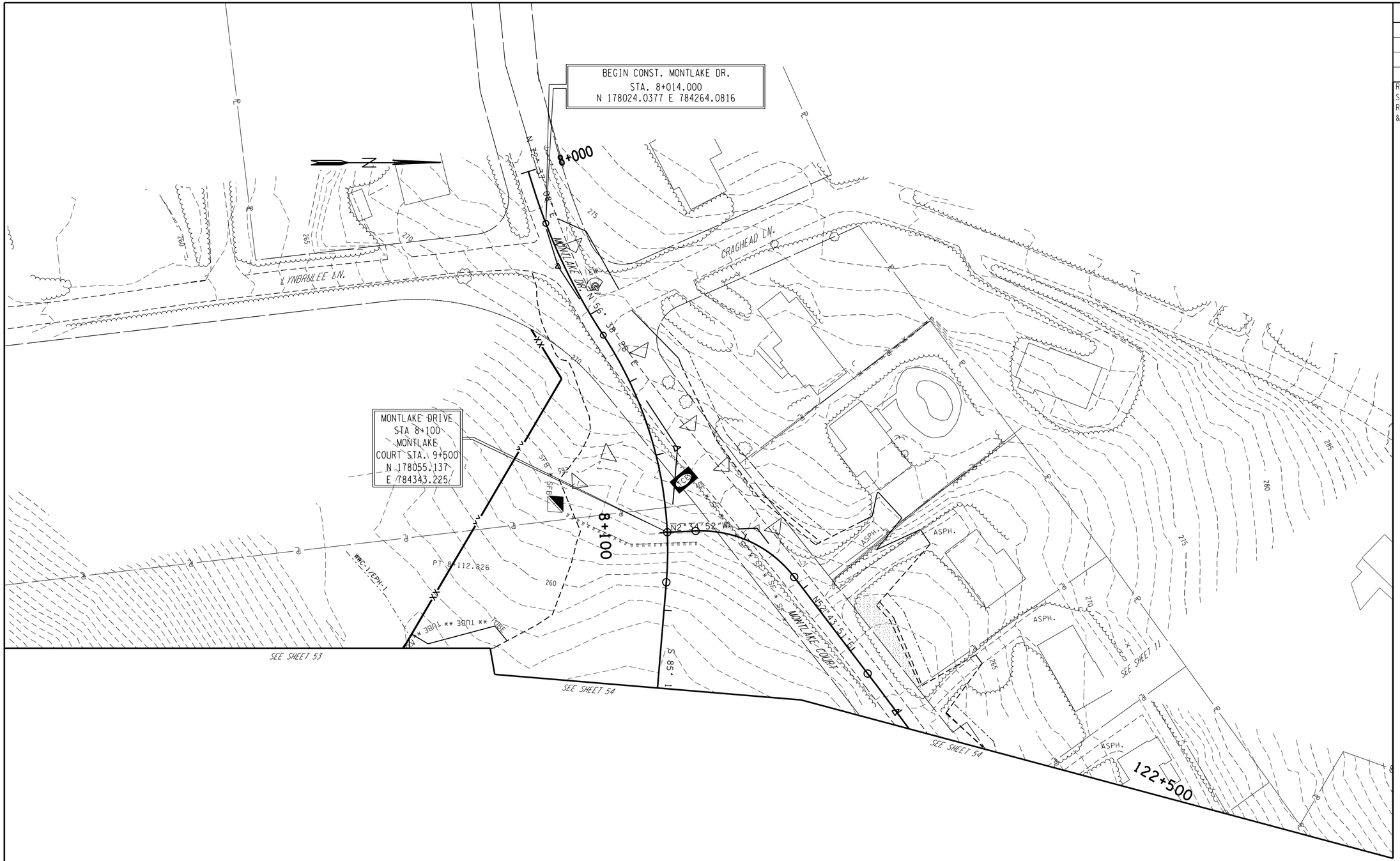
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+500 - STA. 11+800
STA. 111+580 - STA. 111+800
STA. 5+500 - STA. 5+600

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	59
CONST.	2016	47026-3279-14	59

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS.
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. NORTH OF MALONEY ROAD.



STAGE 1
CLEARING AND GRUBBING PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 8+000 - STA. 8+140

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	60
CONST.	2016	47026-3279-14	60

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

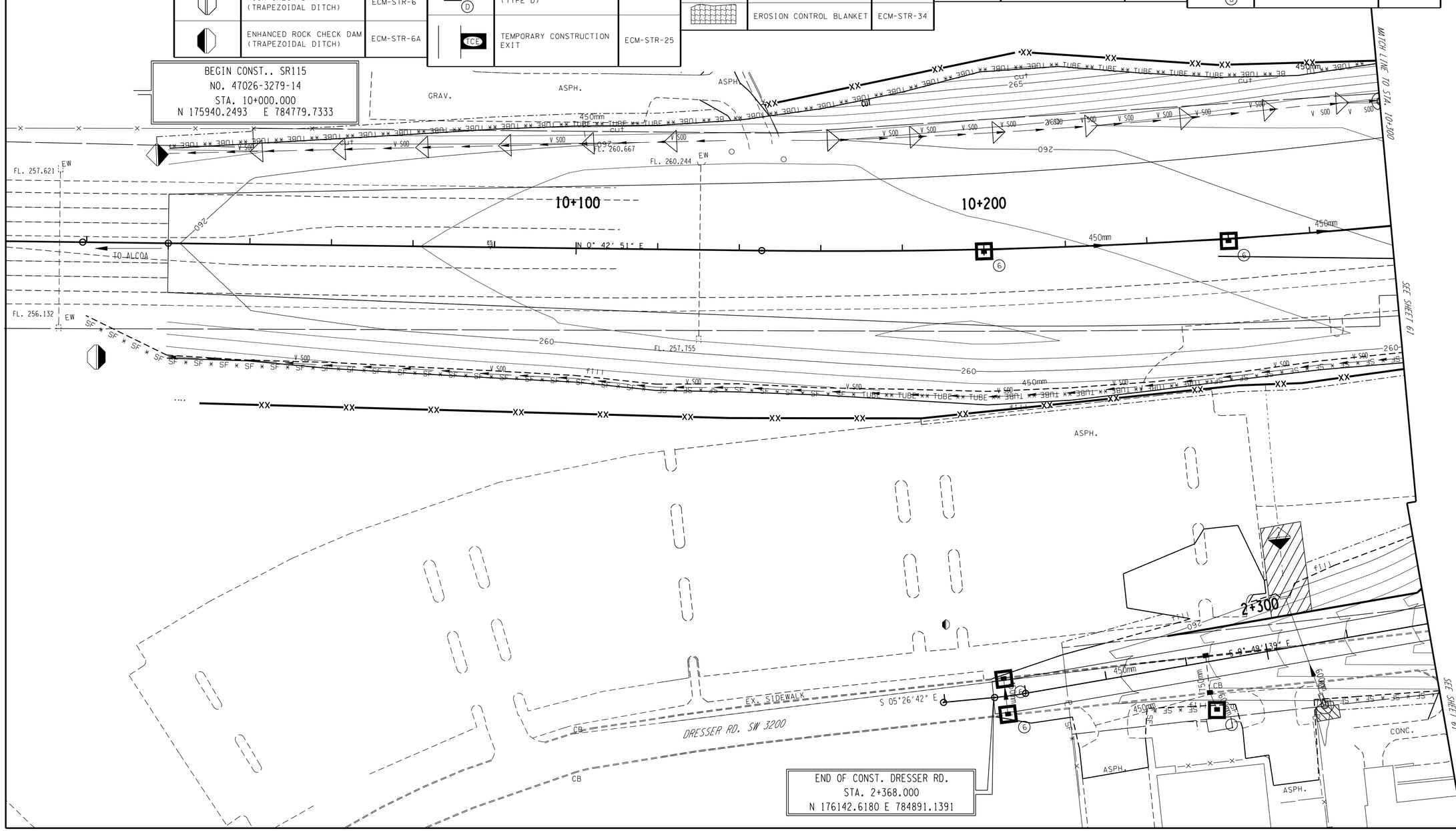
SYMBOL	ITEM	STD. DWG.
SFB	SEDIMENT FILTER BAG	ECM-STR-2
SF	SILT FENCE	ECM-STR-3B
SFB	SILT FENCE WITH WIRE BACKING	ECM-STR-3C
	ROCK CHECK DAM (V-DITCH)	ECM-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	ECM-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	ECM-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	ECM-STR-6A

SYMBOL	ITEM	STD. DWG.
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	ECM-STR-7
SOCK	FILTER SOCK	ECM-STR-8
	CULVERT PROTECTION (TYPE 1)	ECM-STR-11
	CULVERT PROTECTION (TYPE 2)	ECM-STR-11A
	ROCK SEDIMENT DAM	ECM-STR-12
	SEDIMENT BASIN	ECM-STR-15 ECM-STR-17
D	CATCH BASIN PROTECTION (TYPE D)	ECM-STR-19
TCE	TEMPORARY CONSTRUCTION EXIT	ECM-STR-25

SYMBOL	ITEM	STD. DWG.
	TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM	ECM-STR-27
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	ECM-STR-31
	TEMPORARY DIVERSION CULVERT (DESCRIBE NUMBER AND SIZE OF PIPES)	ECM-STR-32
	SAND BAG BERM	ECM-STR-33
	SUSPENDED PIPE DIVERSION	ECM-STR-33 ECM-STR-33A
	EROSION CONTROL BLANKET	ECM-STR-34

SYMBOL	ITEM	STD. DWG.
TUBE	SEDIMENT TUBE	ECM-STR-37
ALL SEDIMENT TUBES SHALL BE 450mm (18")		
4	CURB INLET PROTECTION (TYPE 4)	ECM-STR-39A
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	ECM-STR-41
2	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	ECM-STR-42
3	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	ECM-STR-43

SYMBOL	ITEM	STD. DWG.
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	ECM-STR-44
5	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	ECM-STR-45
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	ECM-STR-46
7	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	ECM-STR-47
8	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	ECM-STR-48



STAGE 2
MASS GRADING
DURING CONSTRUCTION
AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

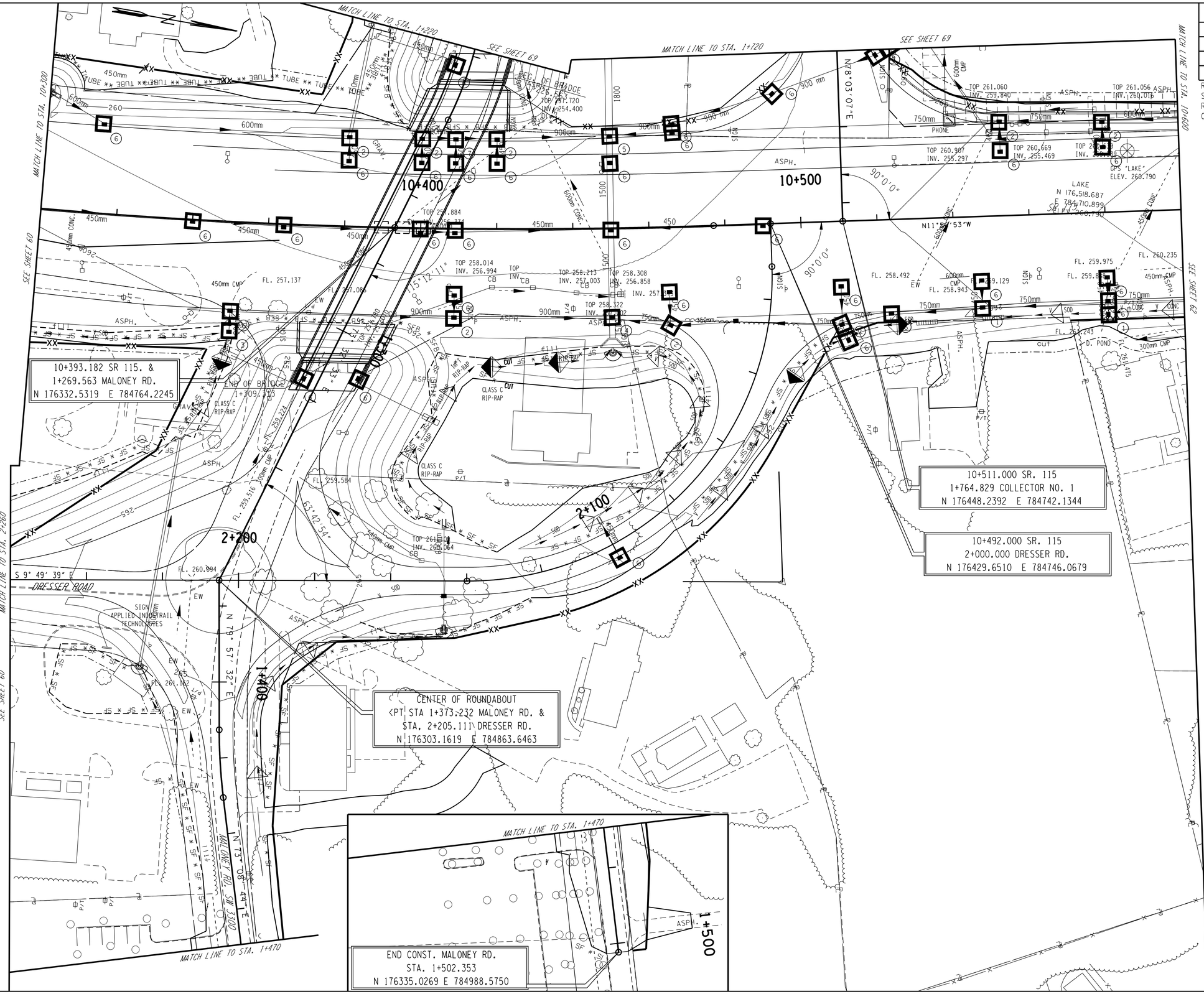
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 10+000 - STA. 10+300
STA. 2+260 - STA. 2+368

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	61
CONST.	2016	47026-3279-14	61

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 2
MASS GRADING
DURING CONSTRUCTION
AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

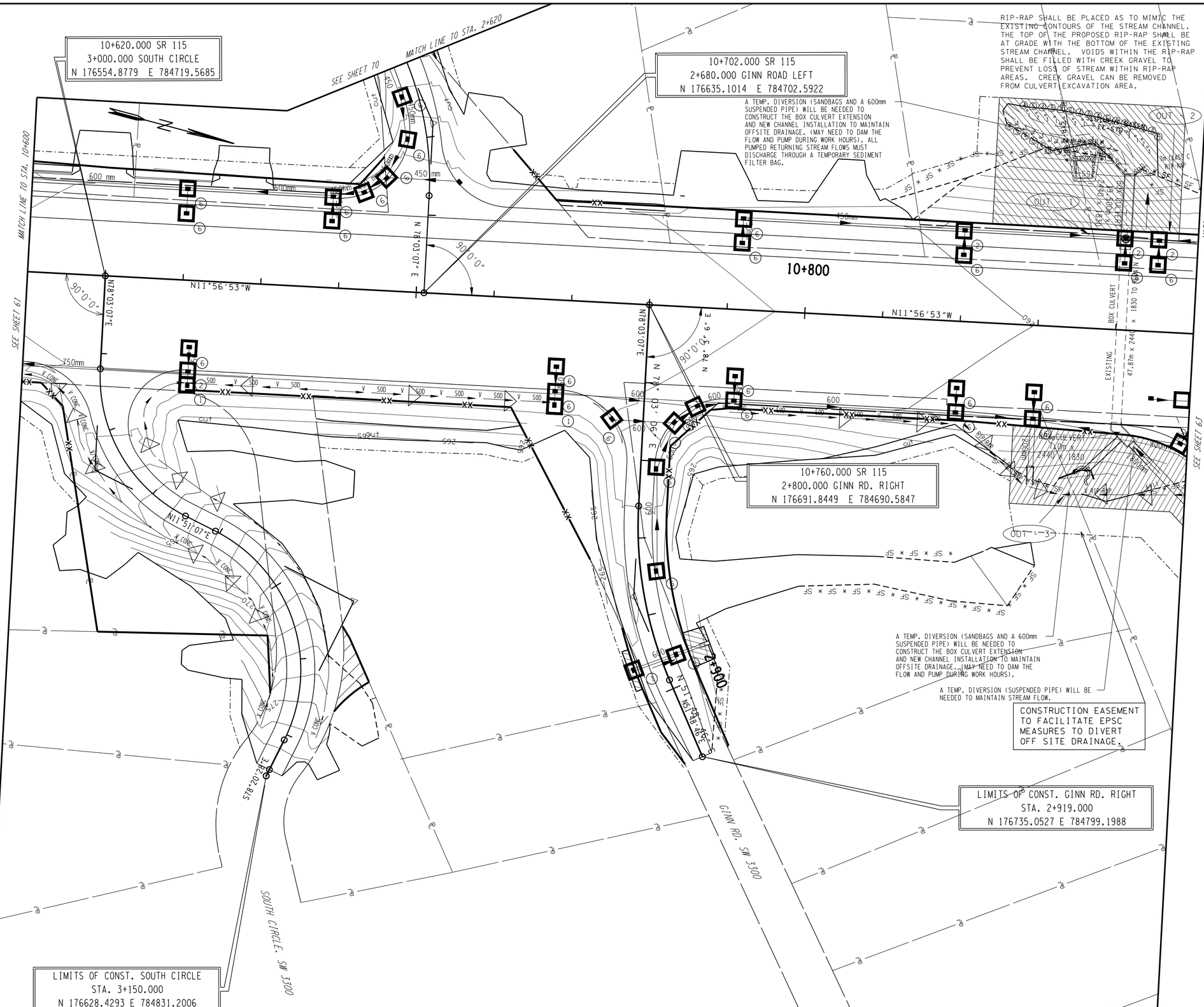
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 10+300 - STA. 10+600
STA. 1+220 - STA. 1+503
STA. 1+720 - STA. 1+764.829
STA.2+000 - STA. 2+260
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	62
CONST.	2016	47026-3279-14	62

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.
REV. 16-JAN.-2015: TRACT 28S ADDED DRAINAGE EASEMENT, REVISED SLOPE AND CONSTRUCTION EASEMENT. REVISED EXISTING STREAM LOCATION.



STAGE 2
MASS GRADING DURING CONSTRUCTION AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

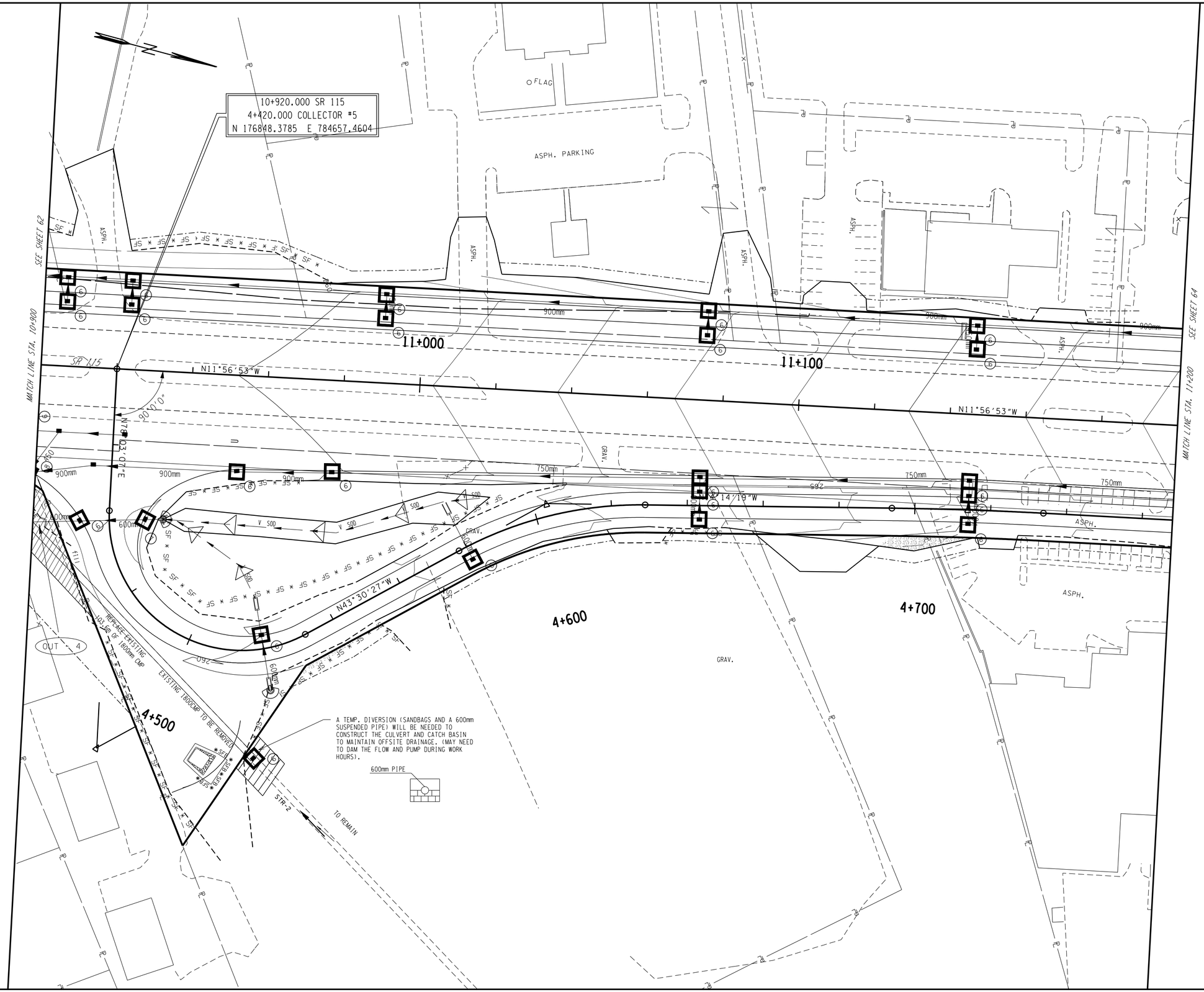
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.10+600 - STA.10+900
STA.2+620 - STA.2+680
STA.2+800 - STA.2+919
STA.3+000 - STA.3+115
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	63
CONST.	2016	47026-3279-14	63

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 2
MASS GRADING
DURING CONSTRUCTION
AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

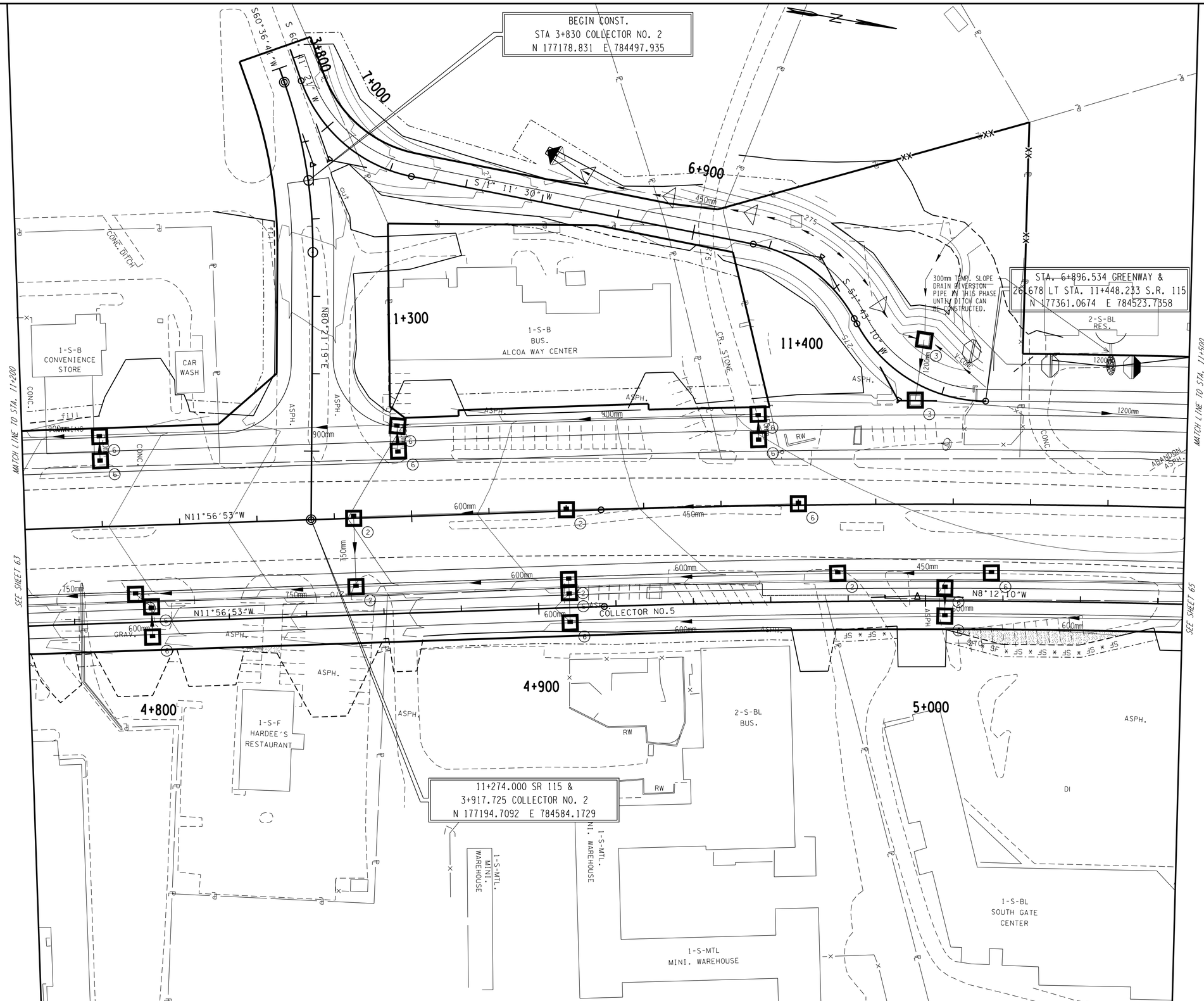
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 10+900 - STA. 11+200
STA. 3+700 - STA. 4+179.162

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	64
CONST.	2016	47026-3279-14	64

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 2
MASS GRADING
DURING CONSTRUCTION
AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

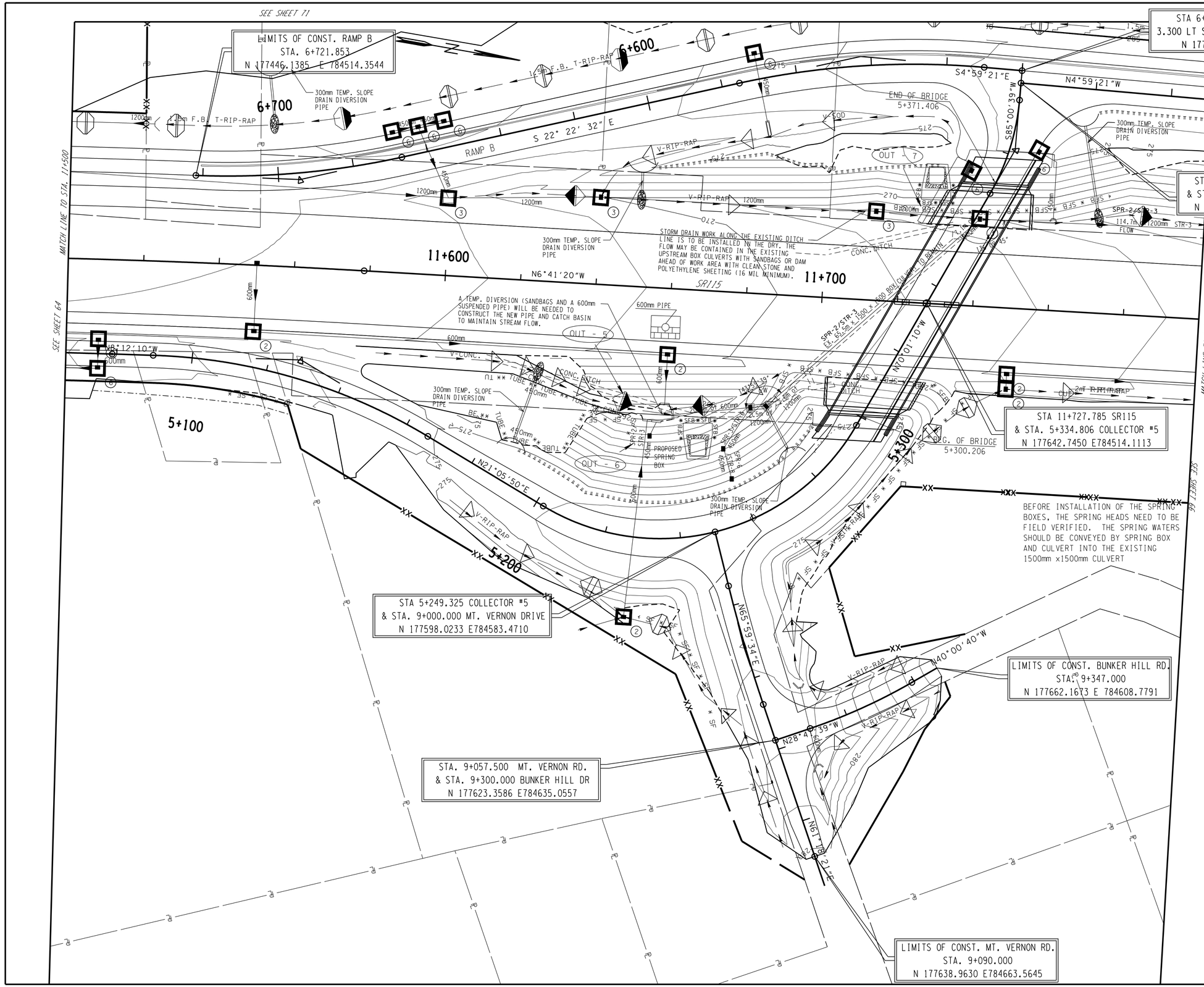
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+200 - STA. 11+500
STA. 3+820 - STA. 4+917.725

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	65
CONST.	2016	47026-3279-14	65

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 2
MASS GRADING
DURING CONSTRUCTION
AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

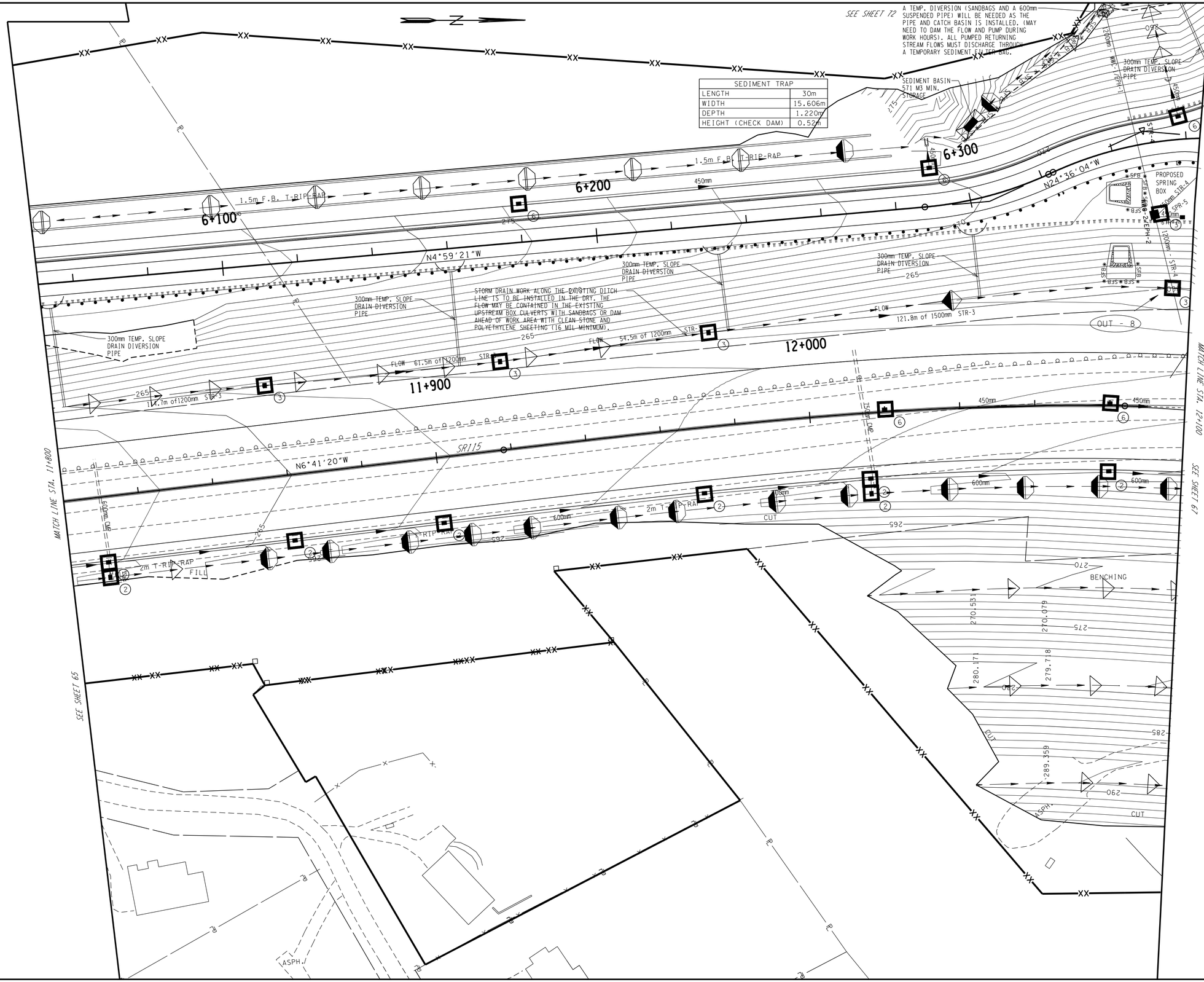
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+500 - STA. 11+800
STA. 111+580 - STA. 111+800
STA. 5+500 - STA. 5+600
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	66
CONST.	2016	47026-3279-14	66

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 2
MASS GRADING DURING CONSTRUCTION AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

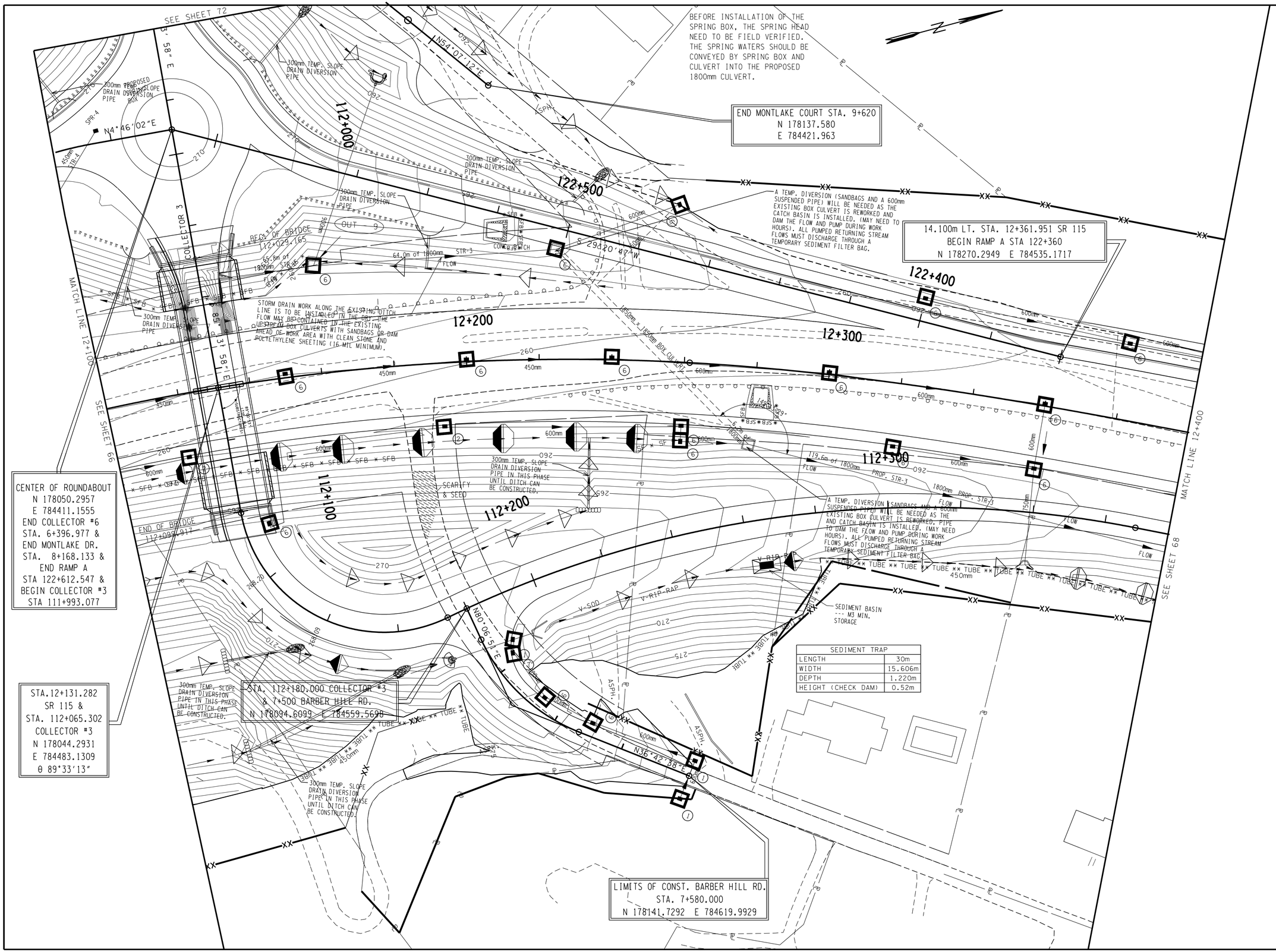
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+800 - STA. 12+100
STA. 111+800 - STA. 112+100
STA. 122+640 - STA. 122+955
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	67
CONST.	2016	47026-3279-14	67

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. NORTH OF MALONEY ROAD.



STAGE 2
MASS GRADING DURING CONSTRUCTION AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

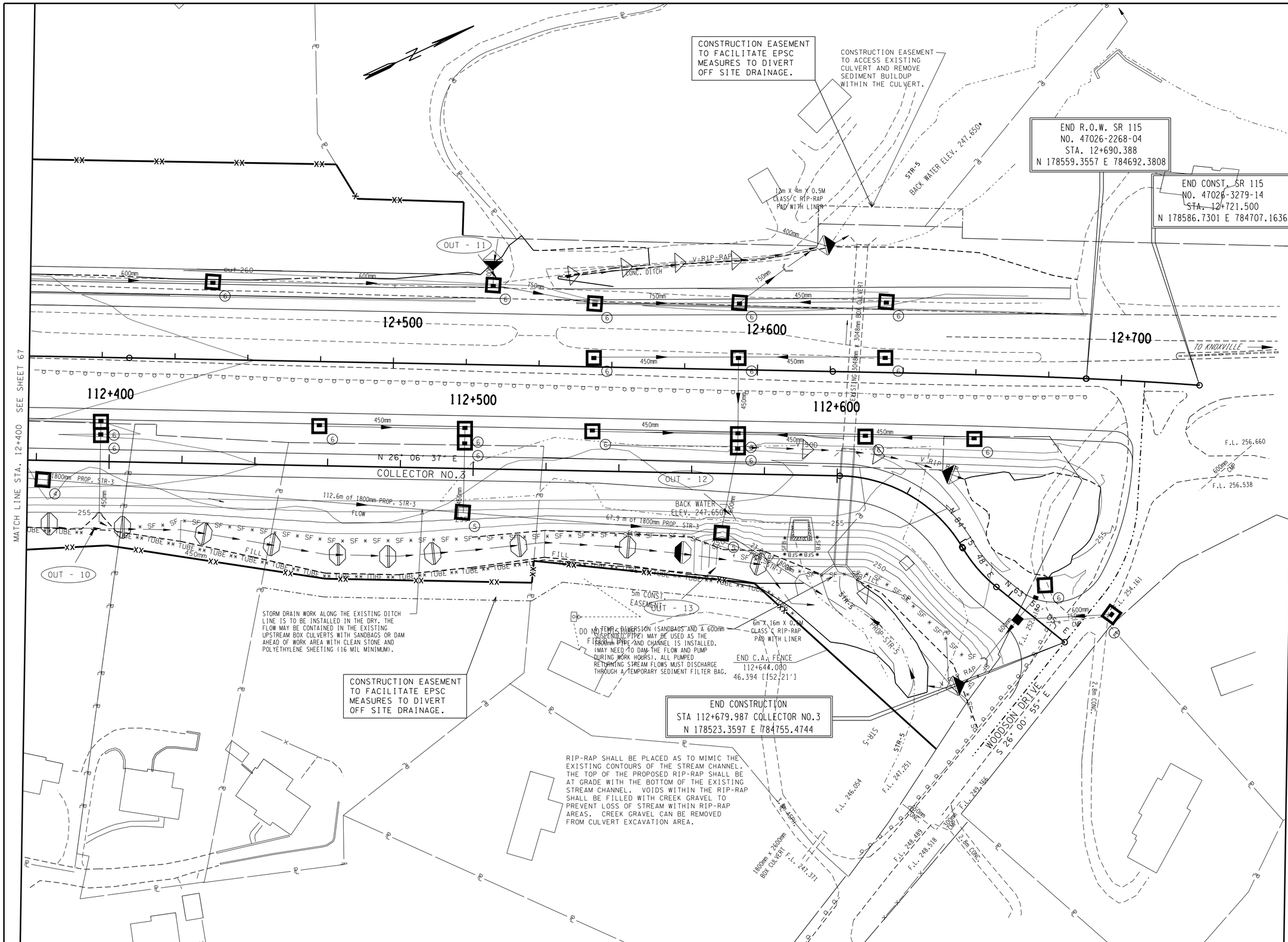
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 12+100 - STA. 12+400
STA.112+100 - STA. 112+380
STA.122+360 - STA. 122+640
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	68
CONST.	2016	47026-3279-14	68

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 2
MASS GRADING DURING CONSTRUCTION AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

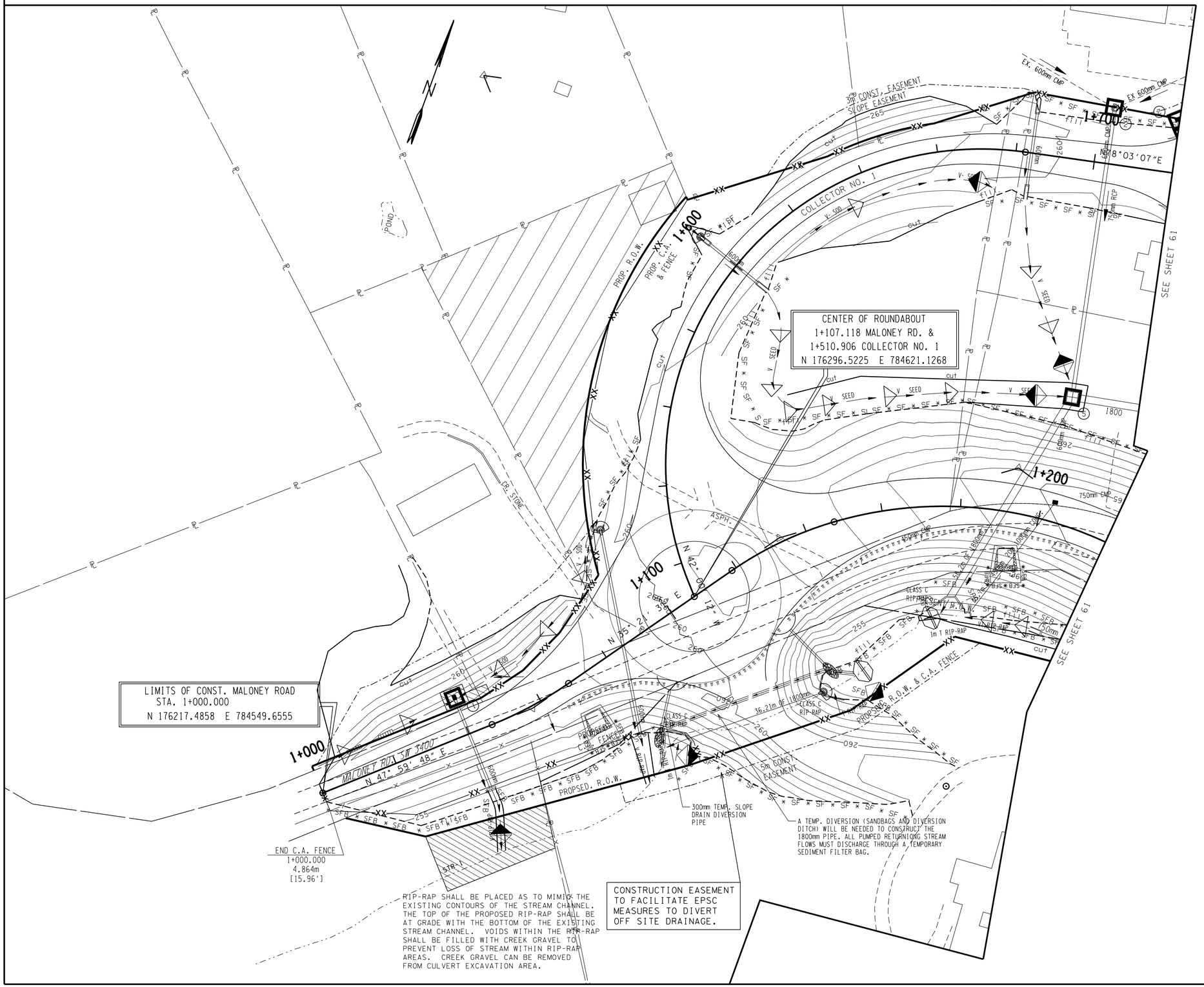
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.12+400 - STA.12+740

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	69
CONST.	2016	47026-3279-14	69

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



TENNESSEE METRIC D.O.T.

STAGE 2
MASS GRADING
DURING CONSTRUCTION
AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

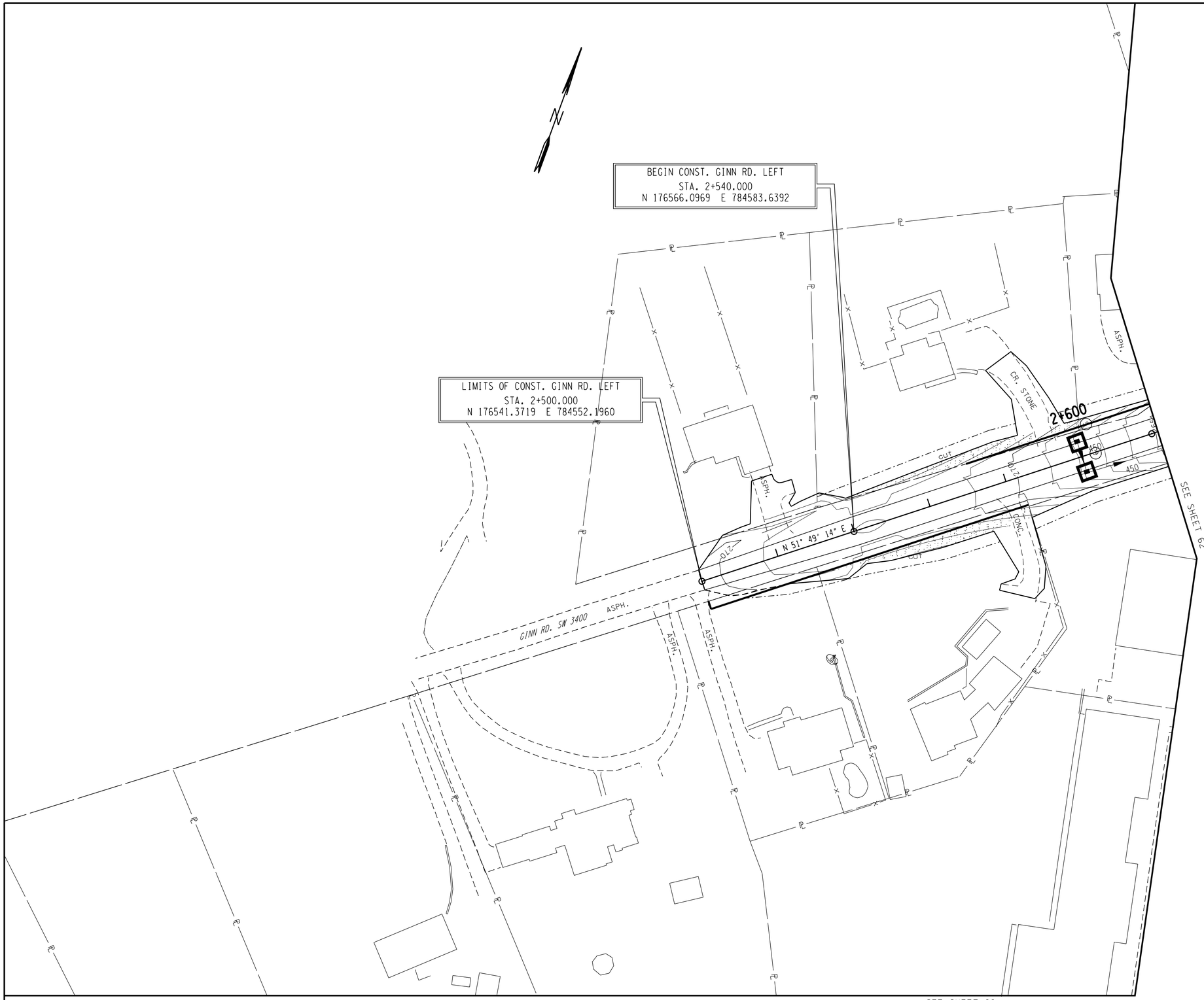
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.1+000 - STA. 1+220
STA.1+500 - STA. 1+720

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	70
CONST.	2016	47026-3279-14	70

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 2
MASS GRADING
DURING CONSTRUCTION
AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

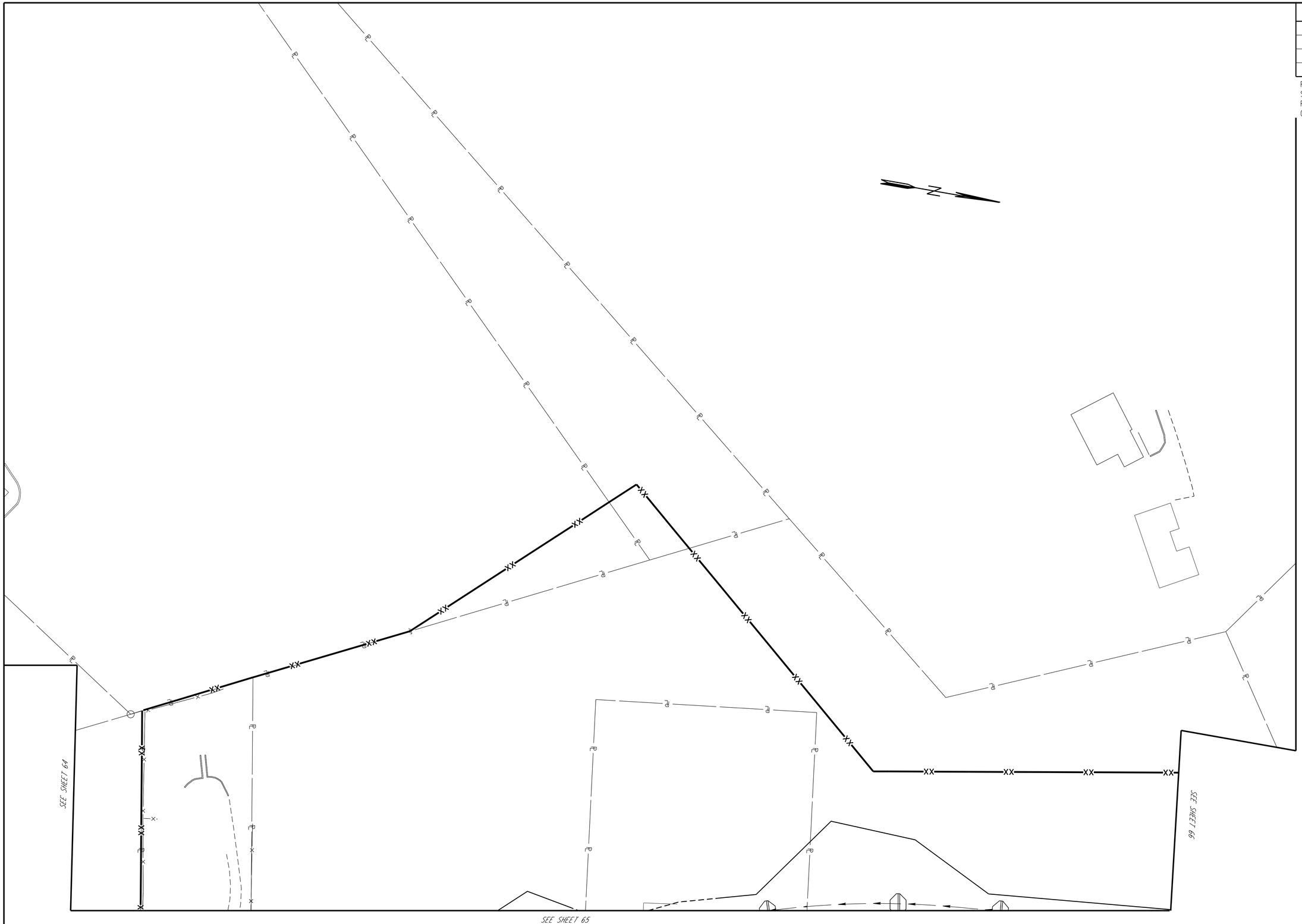
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 2+500 - STA. 2+620

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	71
CONST.	2016	47026-3279-14	71

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 2
MASS GRADING
DURING CONSTRUCTION
AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

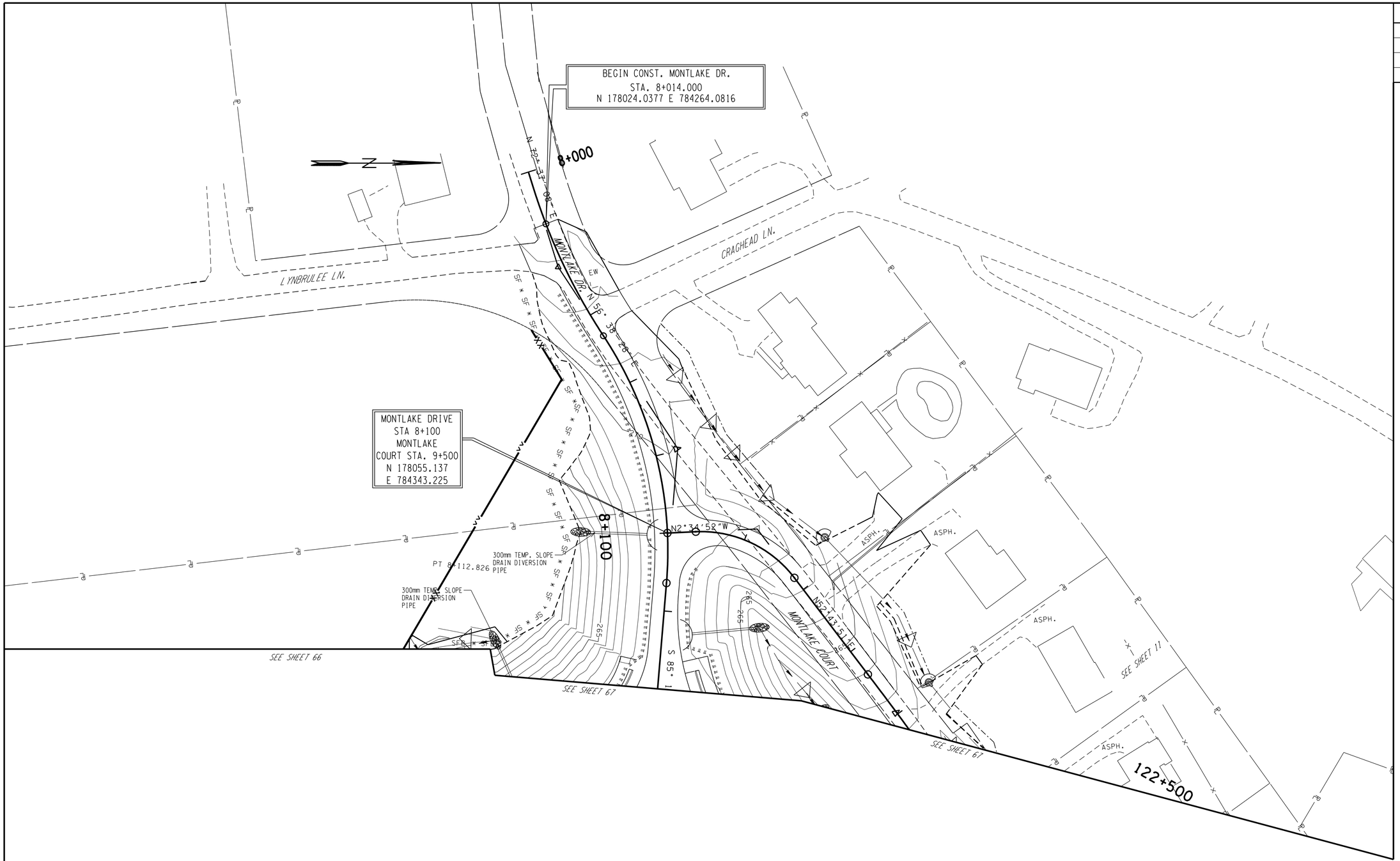
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+500 - STA. 11+800
STA. 111+580 - STA. 111+800
STA. 5+500 - STA. 5+600
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	72
CONST.	2016	47026-3279-14	72

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. NORTH OF MALONEY ROAD.



STAGE 2
MASS GRADING
DURING CONSTRUCTION
AND EARTH WORK

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 8+000 - STA. 8+140

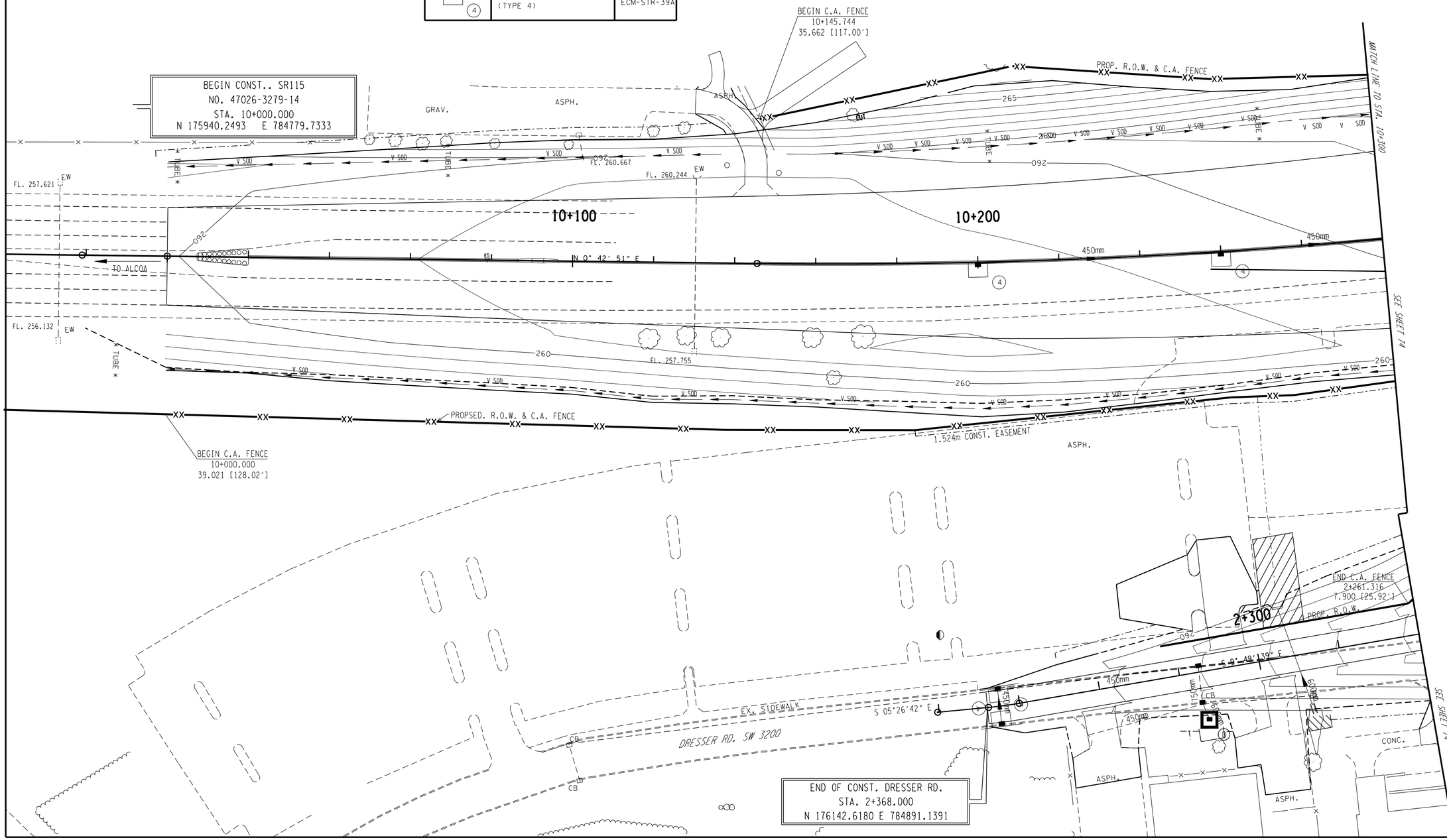
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	73
CONST.	2016	47026-3279-14	73

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
(D)	CATCH BASIN PROTECTION (TYPE D)	ECM-STR-19
	EROSION CONTROL BLANKET	ECM-STR-34
×× TUBE ×× TUBE ××	SEDIMENT TUBE	ECM-STR-37
ALL SEDIMENT TUBES SHALL BE 450mm (18")		
(4)	CURB INLET PROTECTION (TYPE 4)	ECM-STR-39A



STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

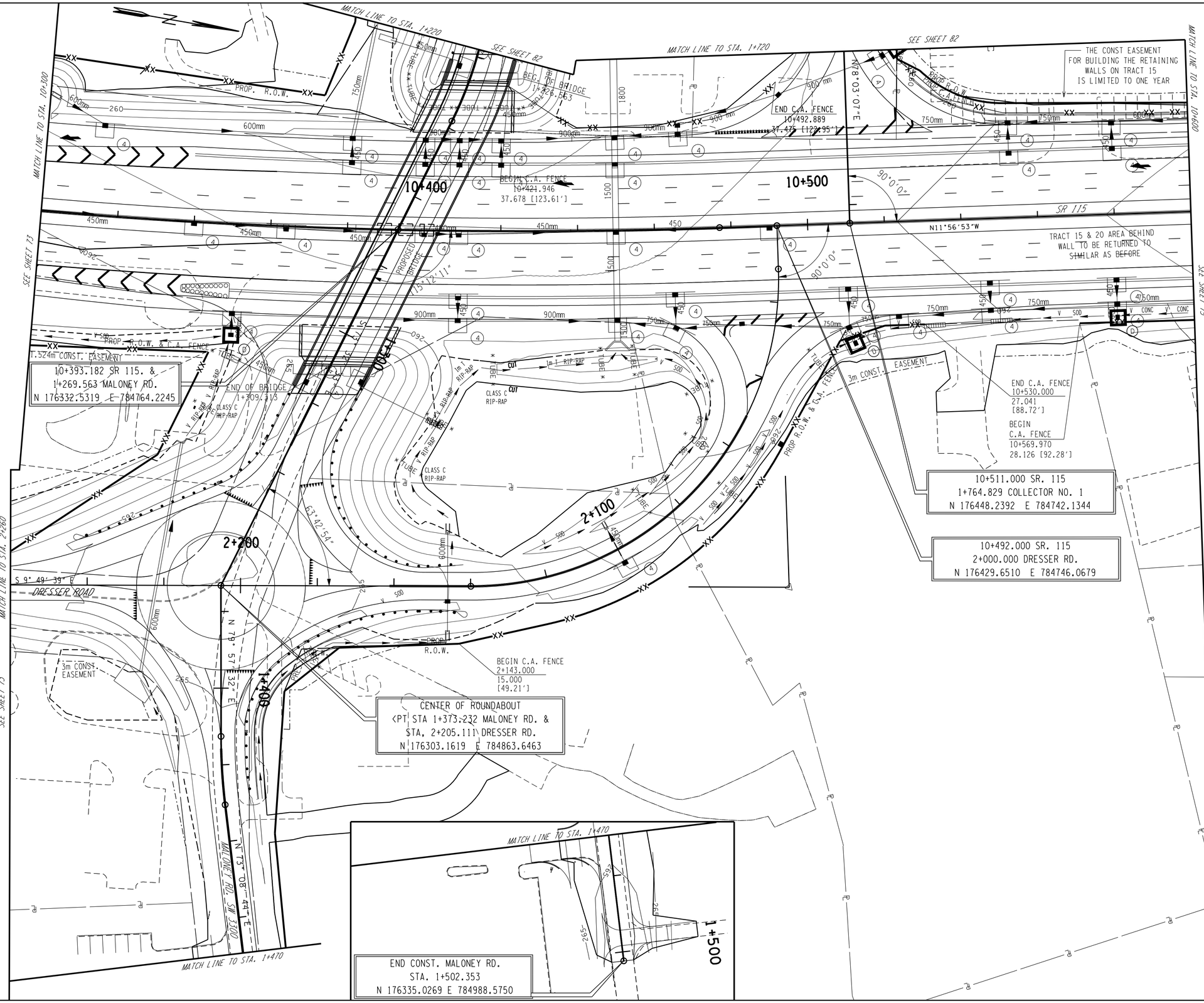
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 10+000 - STA. 10+300
STA. 2+260 - STA. 2+368

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	74
CONST.	2016	47026-3279-14	74

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

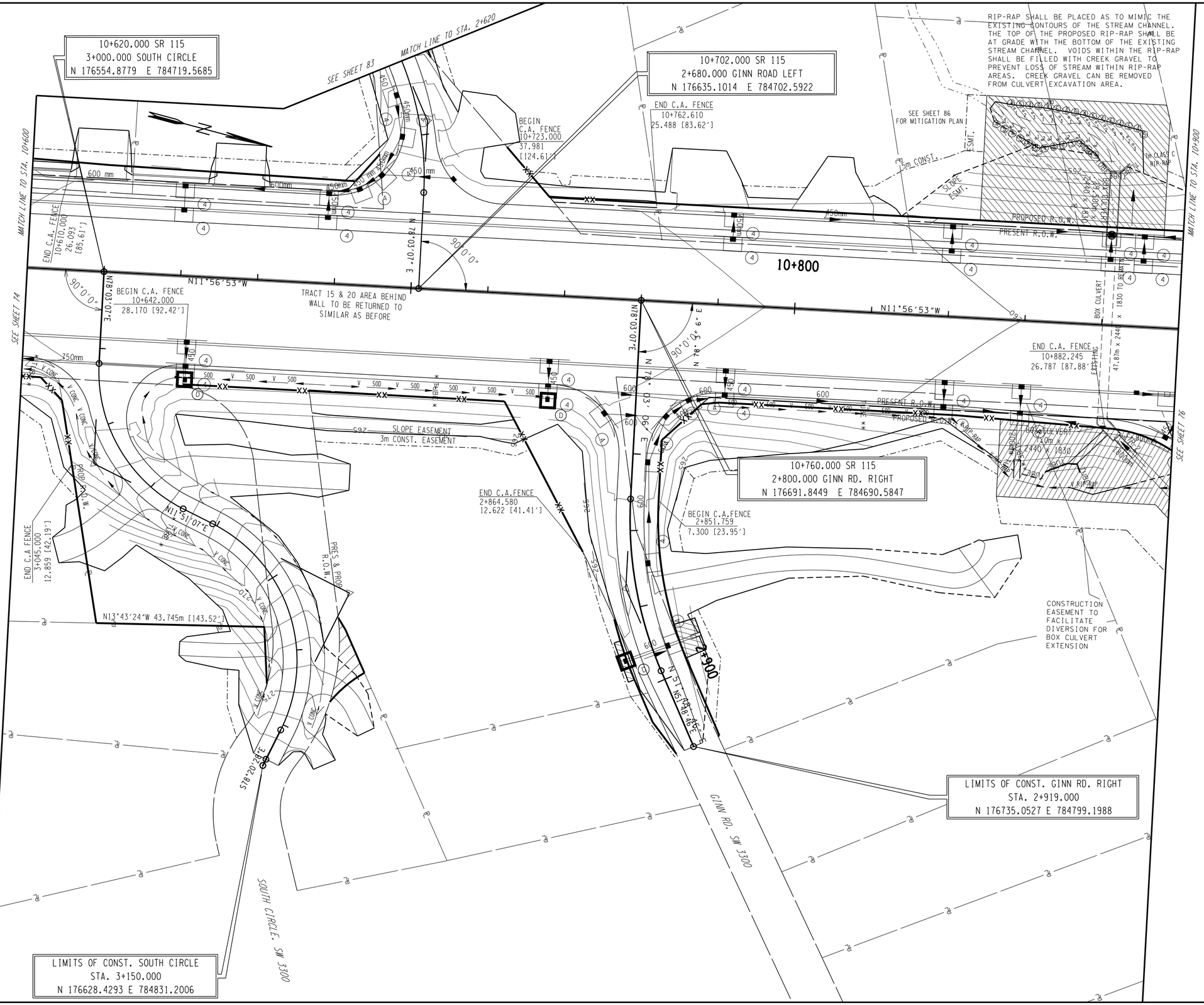
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 10+300 - STA. 10+600
STA. 1+220 - STA. 1+503
STA. 1+720 - STA. 1+764.829
STA.2+000 - STA. 2+260
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	75
CONST.	2016	47026-3279-14	75

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.
REV. 16-JAN.-2015: TRACT 28S ADDED DRAINAGE EASEMENT, REVISED SLOPE AND CONSTRUCTION EASEMENT. REVISED EXISTING STREAM LOCATION.



STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

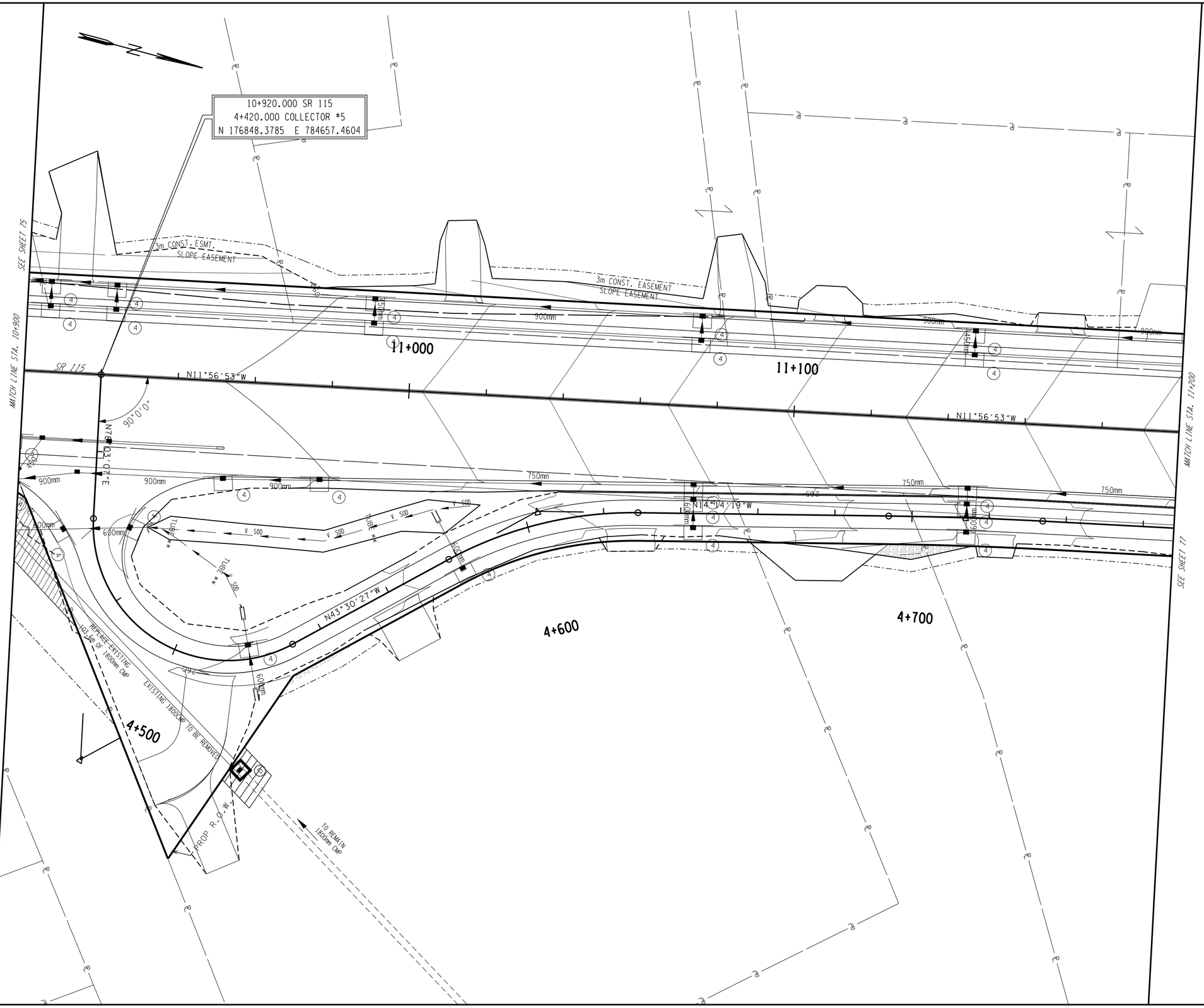
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.10+600 - STA.10+900
STA.2+620 - STA.2+680
STA.2+800 - STA.2+919
STA.3+000 - STA.3+115

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	76
CONST.	2016	47026-3279-14	76

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

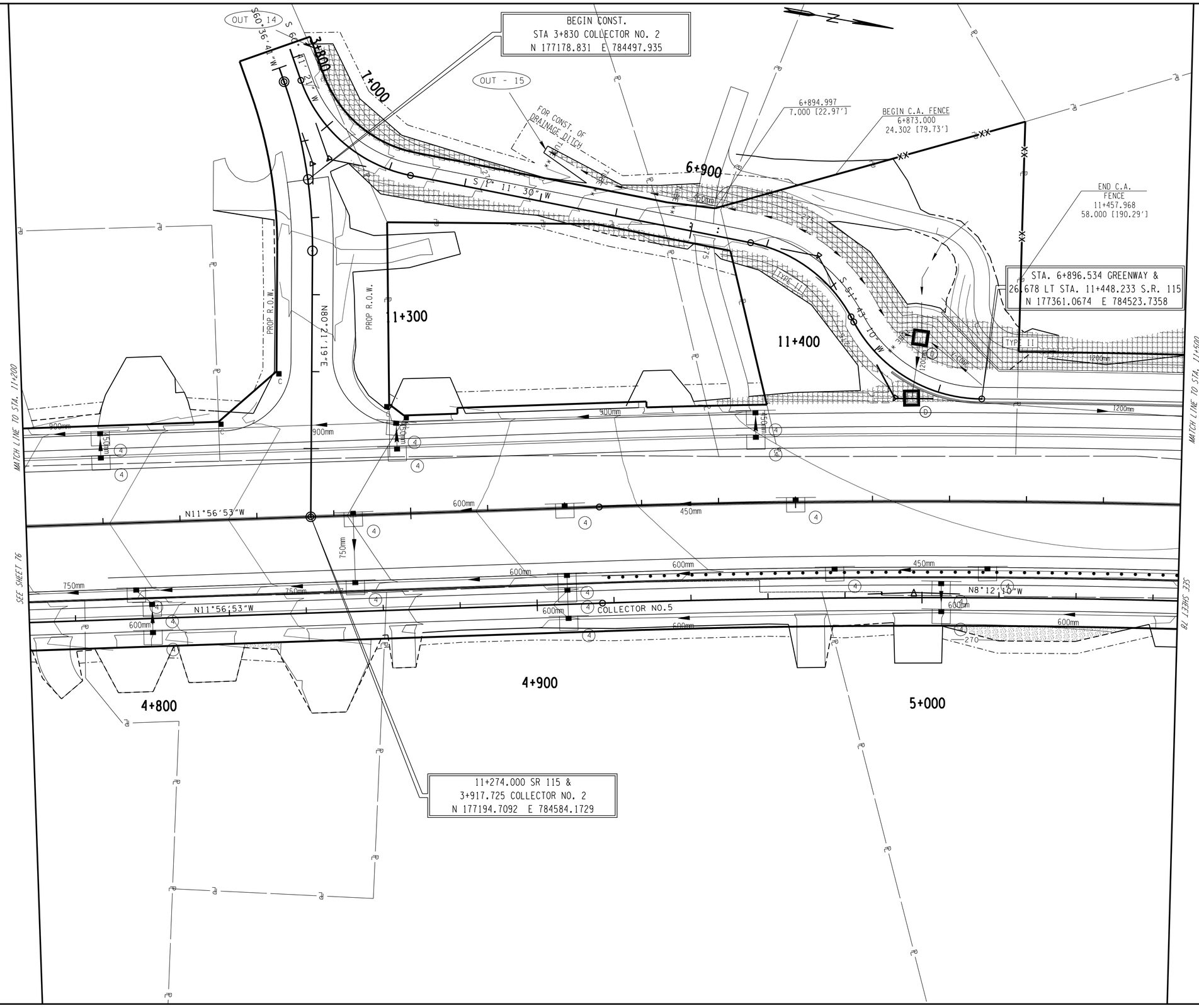
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 10+900 - STA. 11+200
STA. 3+700 - STA. 4+179.162

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	77
CONST.	2016	47026-3279-14	77

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

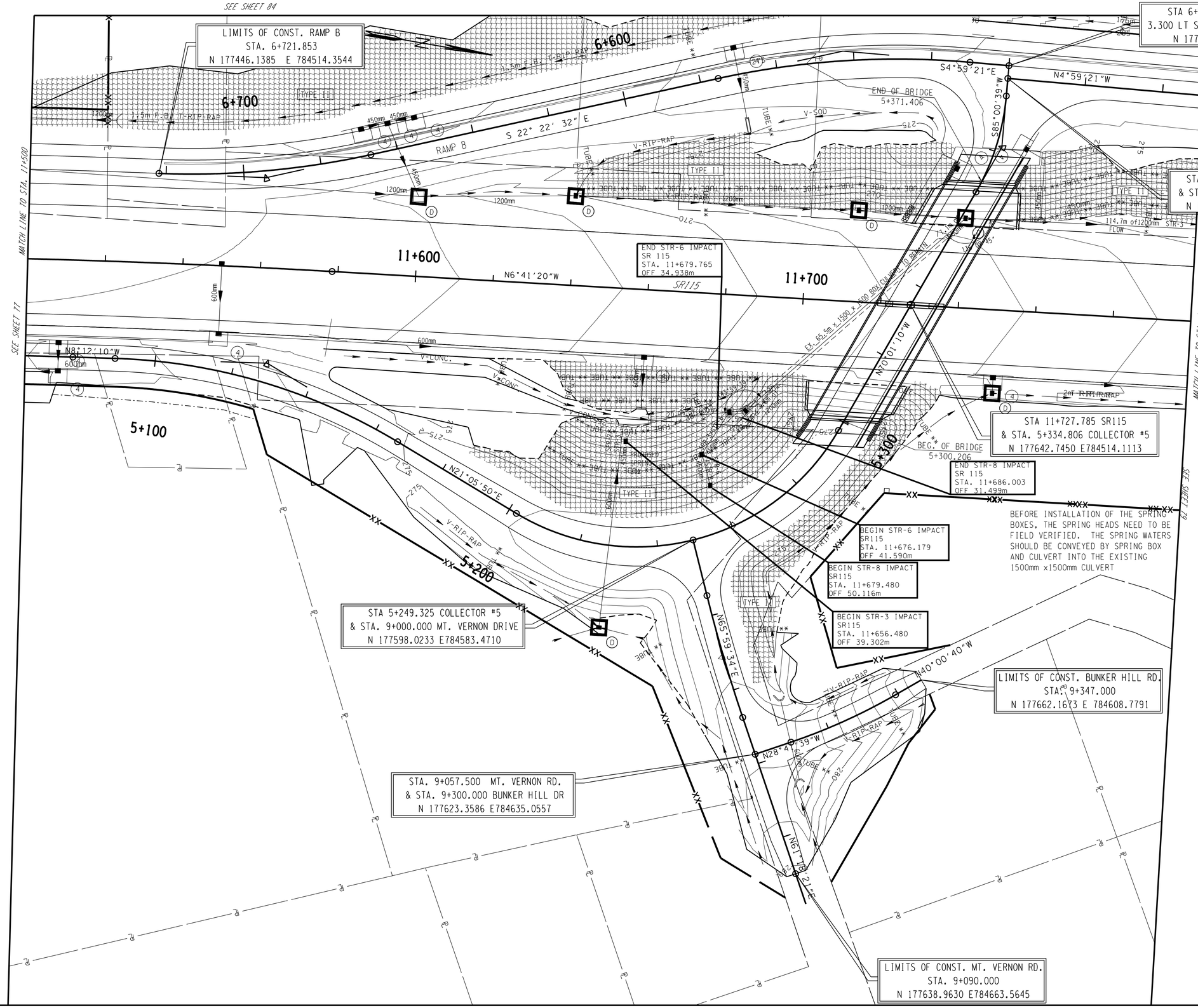
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+200 - STA. 11+500
STA. 3+820 - STA. 4+917.725

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	78

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 3
FINAL CONSTRUCTION

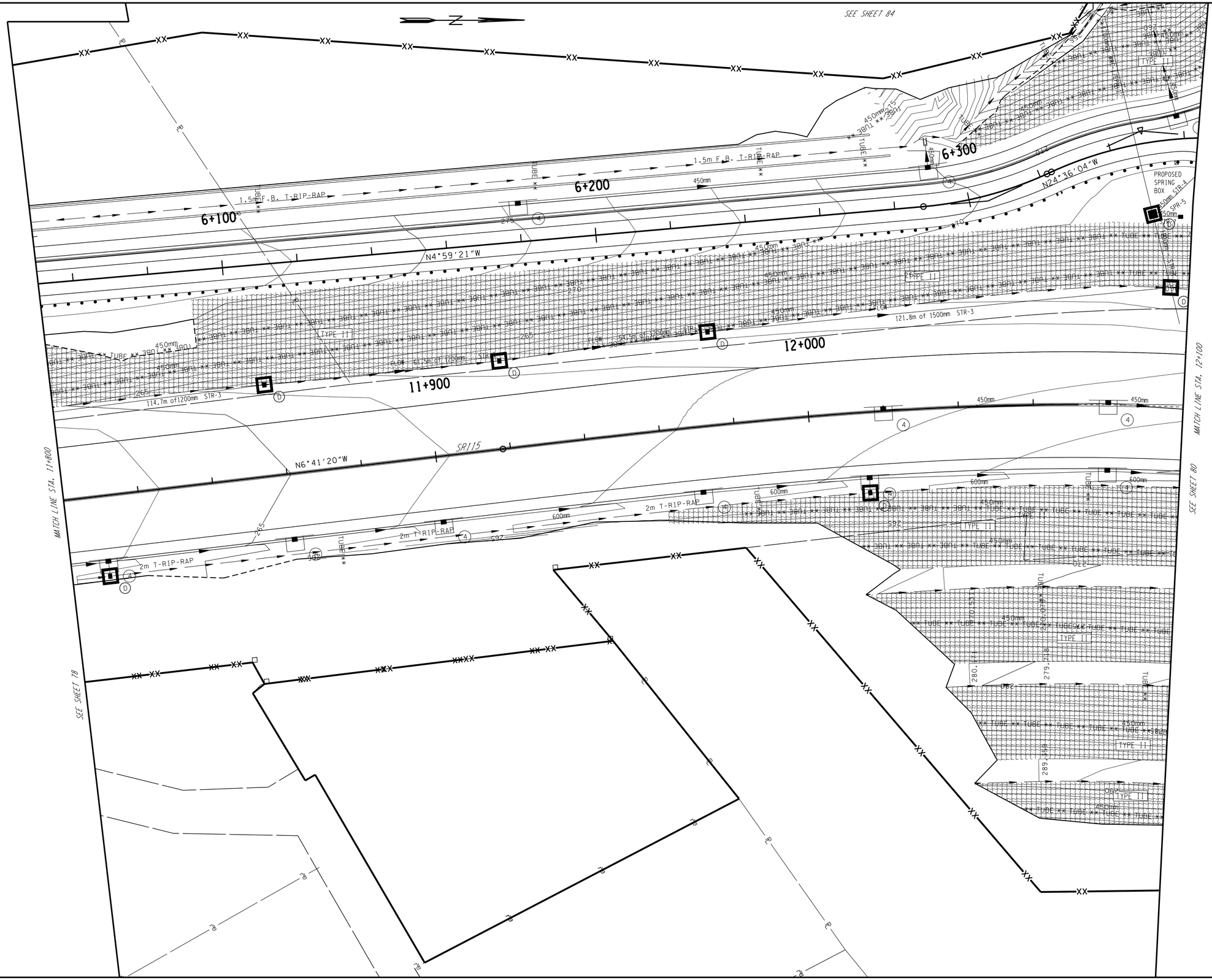
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+500 - STA. 11+800
STA. 11+580 - STA. 11+800
STA. 5+500 - STA. 5+600

SCALE: 1:500



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	79
CONST.	2016	47026-3279-14	79

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.

METRIC

STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

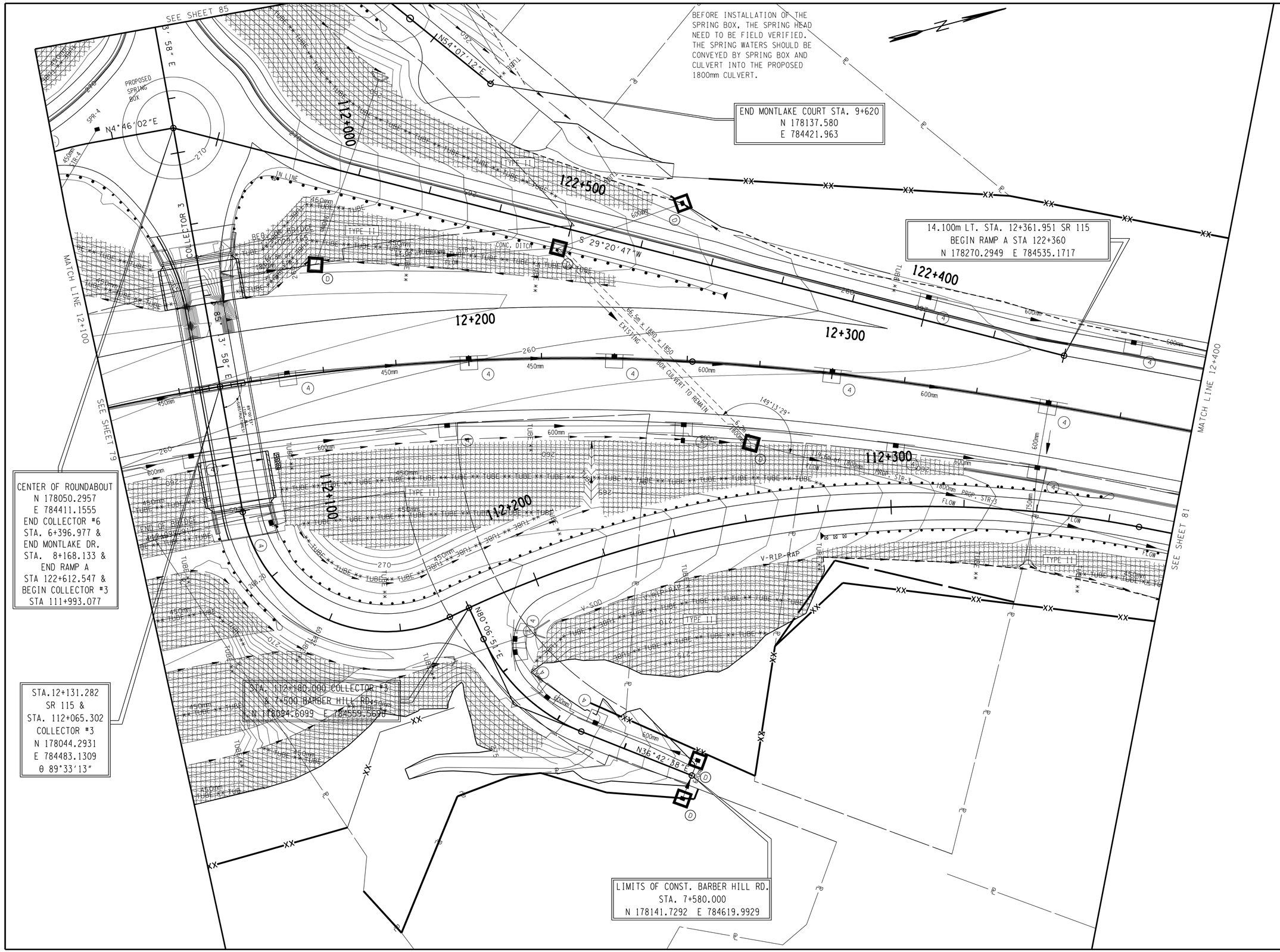
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+800 - STA. 12+100
STA. 111+800 - STA. 112+100
STA. 122+640 - STA. 122+955

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	80
CONST.	2016	47026-3279-14	80

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS.
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. NORTH OF MALONEY ROAD.



STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

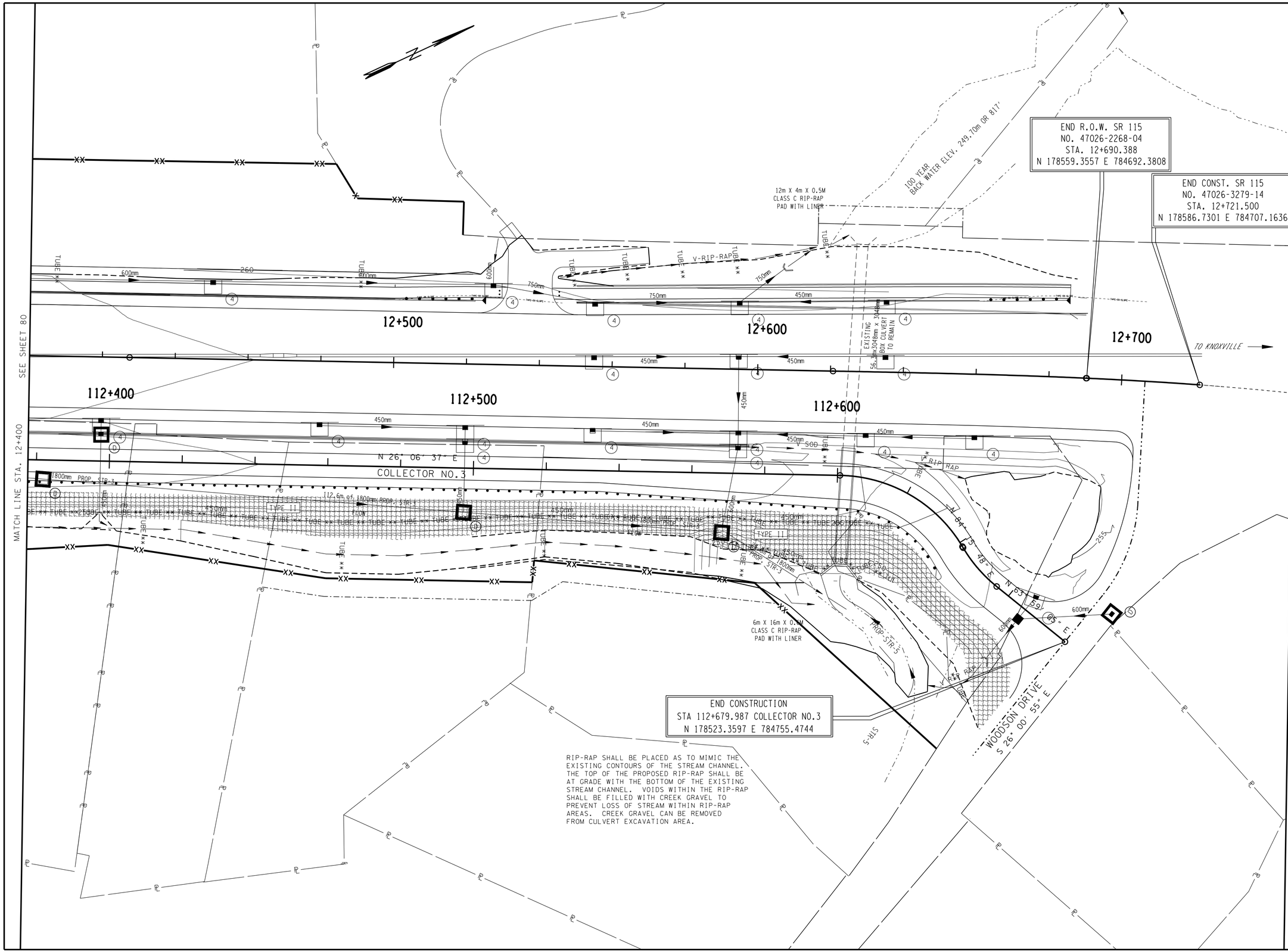
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 12+100 - STA. 12+400
STA.112+100 - STA. 112+380
STA.122+360 - STA. 122+640
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	81
CONST.	2016	47026-3279-14	81

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS.
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



TENNESSEE METRIC D.O.T.

STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

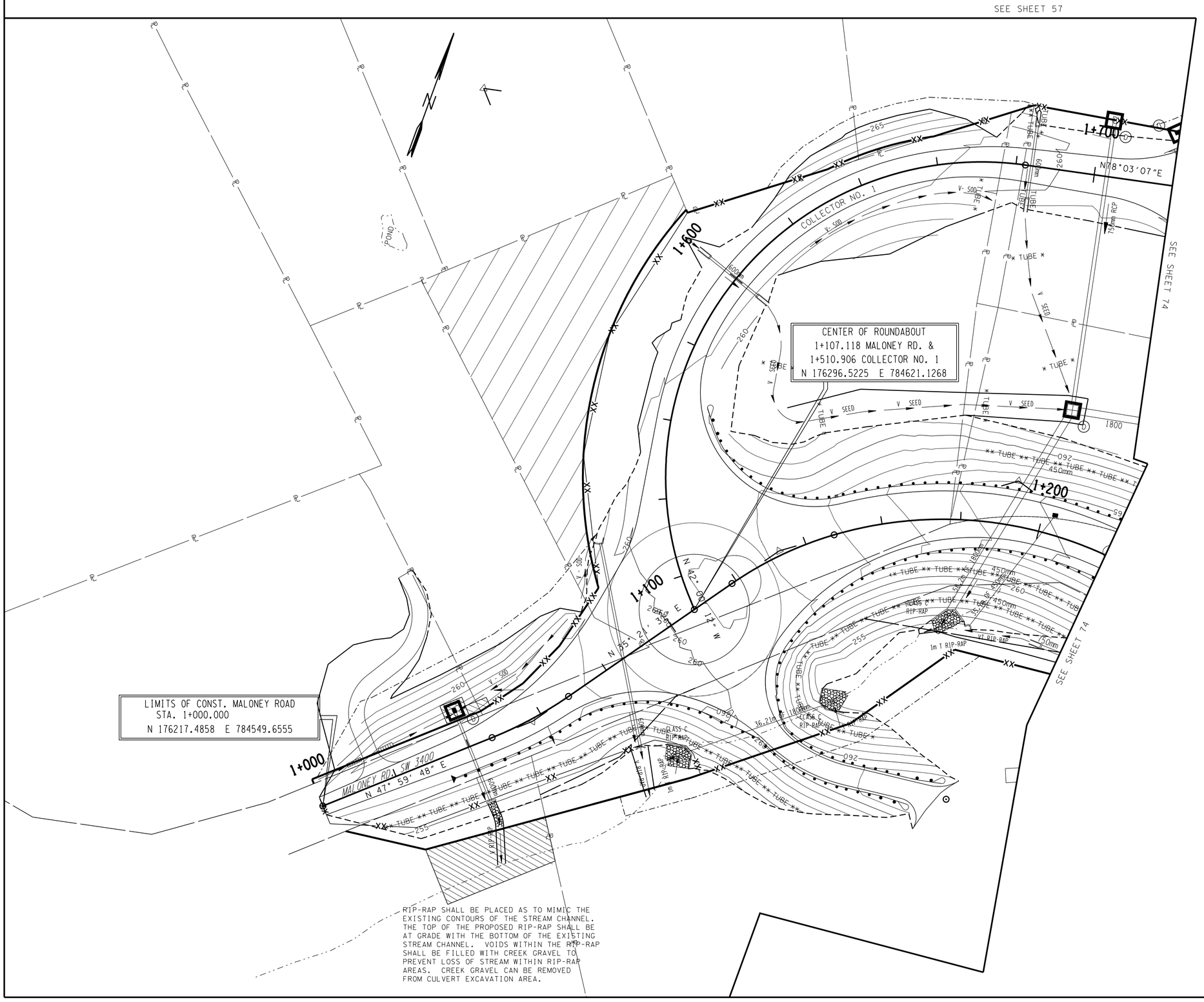
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.12+400 - STA.12+740

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	82
CONST.	2016	47026-3279-14	82

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

TENNESSEE METRIC D.O.T.

STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

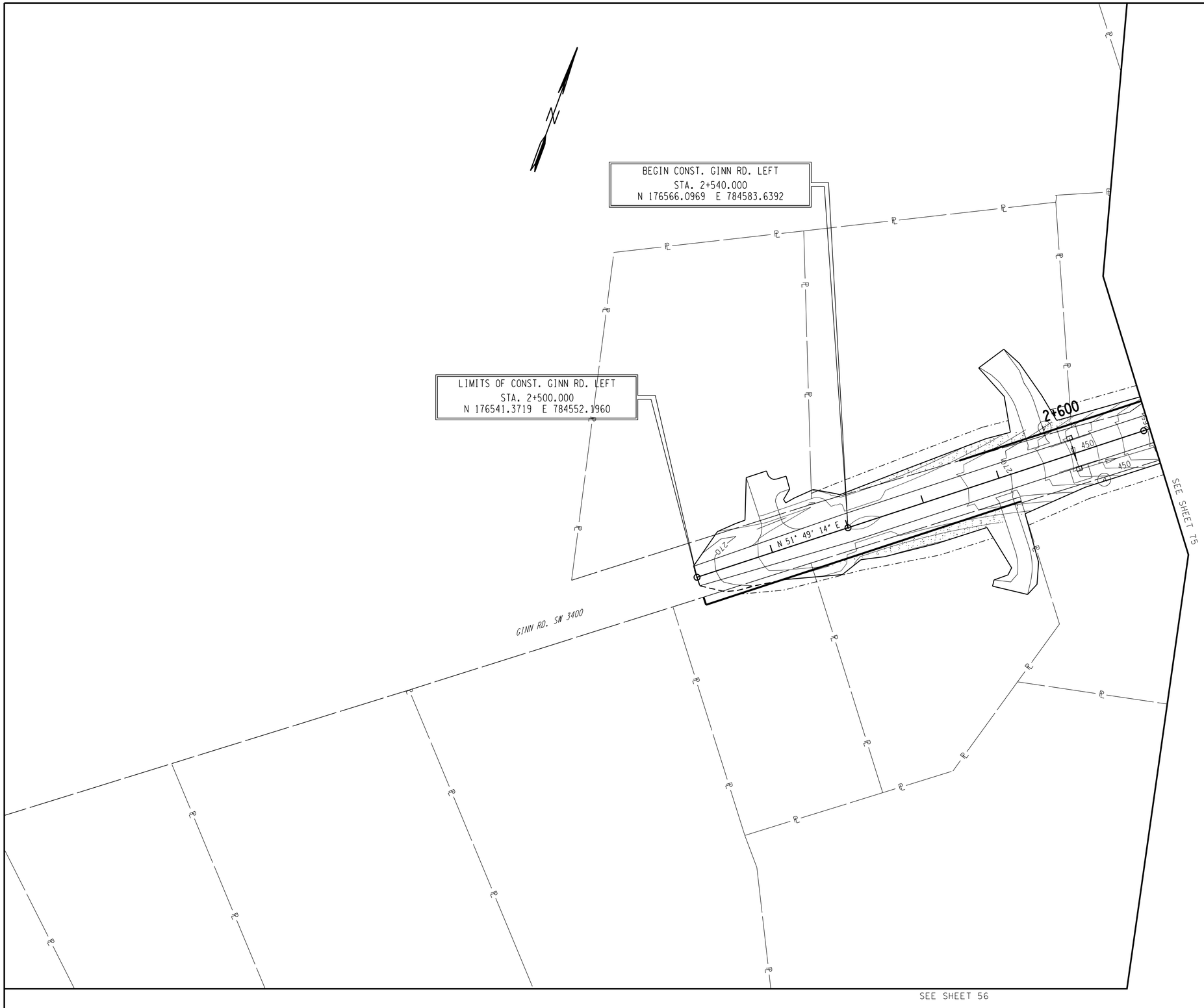
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.1+000 - STA. 1+220
STA.1+500 - STA. 1+720

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	83
CONST.	2016	47026-3279-14	83

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS.
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

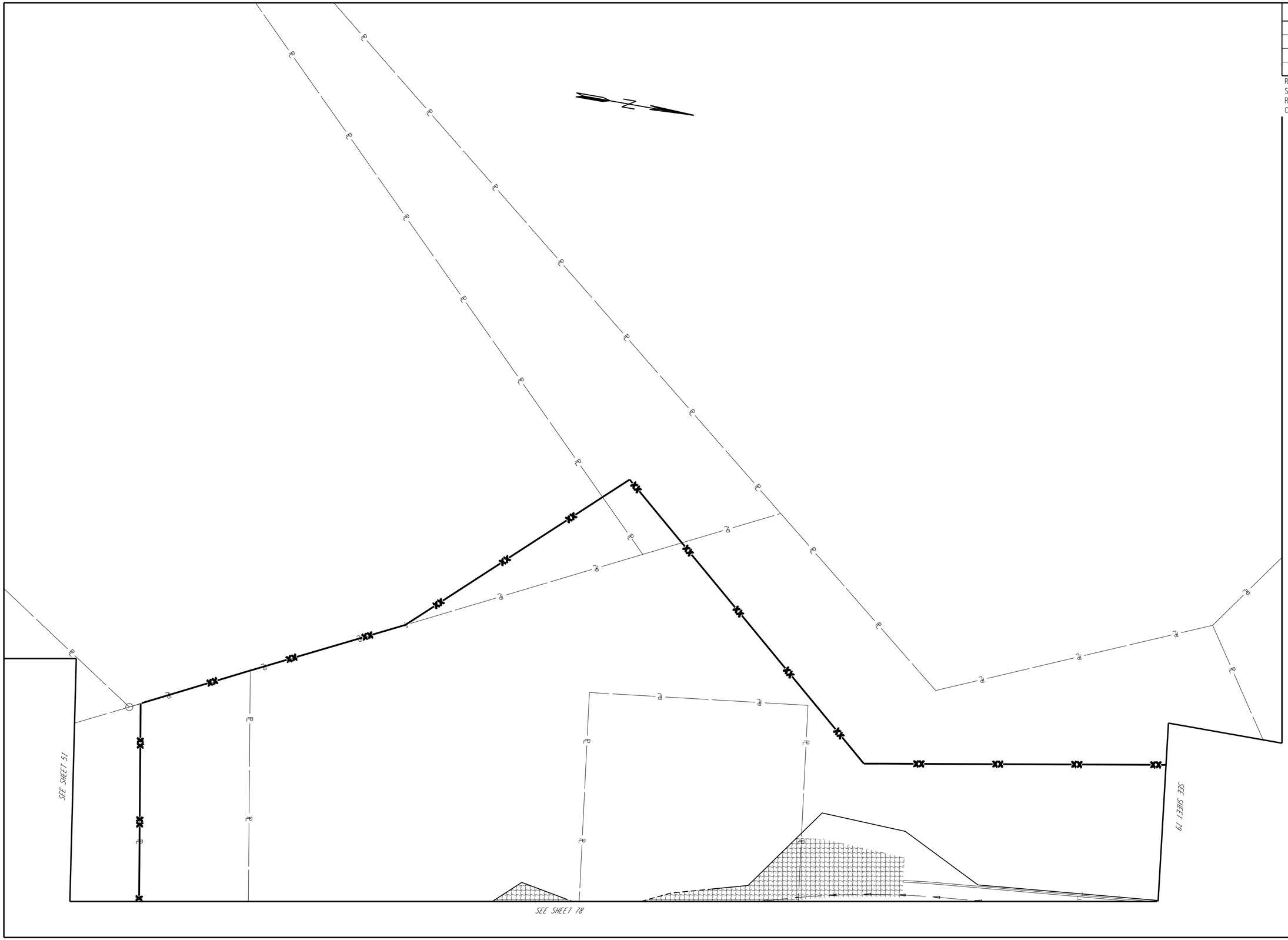
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 2+500 - STA. 2+620

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	84
CONST.	2016	47026-3279-14	84

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT CONTROL PLANS TO ROW PLANS.
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.



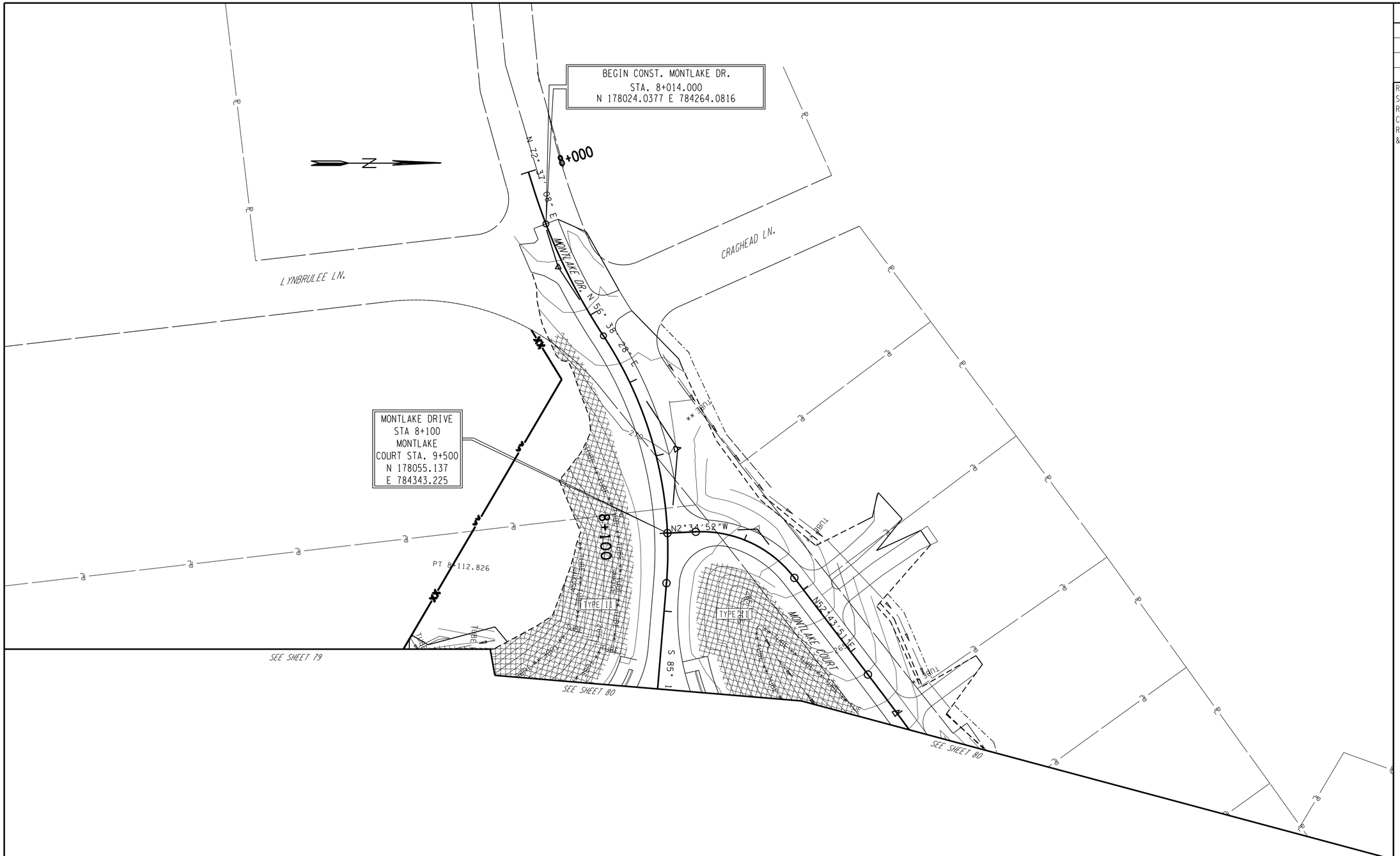
STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 11+500 - STA. 11+800
STA. 111+580 - STA. 111+800
STA. 5+500 - STA. 5+600
SCALE: 1:500



TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	85
CONST.	2016	47026-3279-14	85

REV. 22 AUGUST 2014 ADDED EROSION AND SEDIMENT AND SEDIMENTS TO ROW PLANS.
REV. 7-NOV-2014: ADDED PROPOSED CONTOURS.
REV. 17-SEP-2015: REVISED PRES. & PROP. R.O.W. NORTH OF MALONEY ROAD.

METRIC

STAGE 3
FINAL CONSTRUCTION

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 8+000 - STA. 8+140

SCALE: 1:500

LOCATION 2
STR-2

LIVE STAKE

LIVE STAKES SHALL BE HARVESTED LESS THAN 24 HOURS BEFORE DRIVEN. SPACED ON APPROXIMATLY 1 METER CENTERS USING A DEADBLOW HAMMER.

CHANNEL SLOPES TO BE STABILIZED WITH RIP-RAP AND STAKED WITH LIVE STAKES TO HELP ESTABLISH A PERMANENT RIPARIAN ZONE. TREES PLANTED ARE TO BE ONE ROW, SPACED ON 2.4 METER CENTERS, BEGINNING (0.3) METER FROM THE EDGE OF THE NEW CHANNEL. THE CHANNEL BOTTOM MATERIAL SHOULD BE COMPOSED OF NATURAL ROCK IN VARIOUS SIZES INTERSPERSED WITH SEDIMENT (SOIL) TO MIMIC A NATURAL STREAM. SEE SECTION 918.14 STANDARD SPECIFICATIONS FOR TYPE OF SEED REQUIRED FOR EACH TIME OF YEAR.

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL. VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

TREE AND SHRUB SPECIES FOR STREAM

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802M13.04	#1 Cornus Amomum (Silky Dogwood) Seedling, BR	9	EACH
802M13.02	#2 Calycanthus Floridus (Sweetshurb) Seedling, BR	9	EACH
802M13.60	#3 Sambucus Canadensis (Elderberry) Seedling, BR	9	EACH
802M13.09	#4 Lindera Benzoin (Spicebush) 2-5' in height, containerized	15	EACH
802M13.01	#5 Alnus Serrulata (Hazel Alder) 2-5' in height, containerized	14	EACH
TOTAL		56	

The first five should be used for mitigation; if an of these are not available, either of the last two on the list can be substituted

LIVE STAKE SPECIES FOR STREAM BANKS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802M02.30	Salix nigra (black willow) 18-24" in length	27	EACH
802M02.33	Sambucus Canadensis (elderberry) 18-24" in length	27	EACH
802M32.02	Cornus Amomum (silky dogwood) 18-24" in length	27	EACH
TOTAL		81	

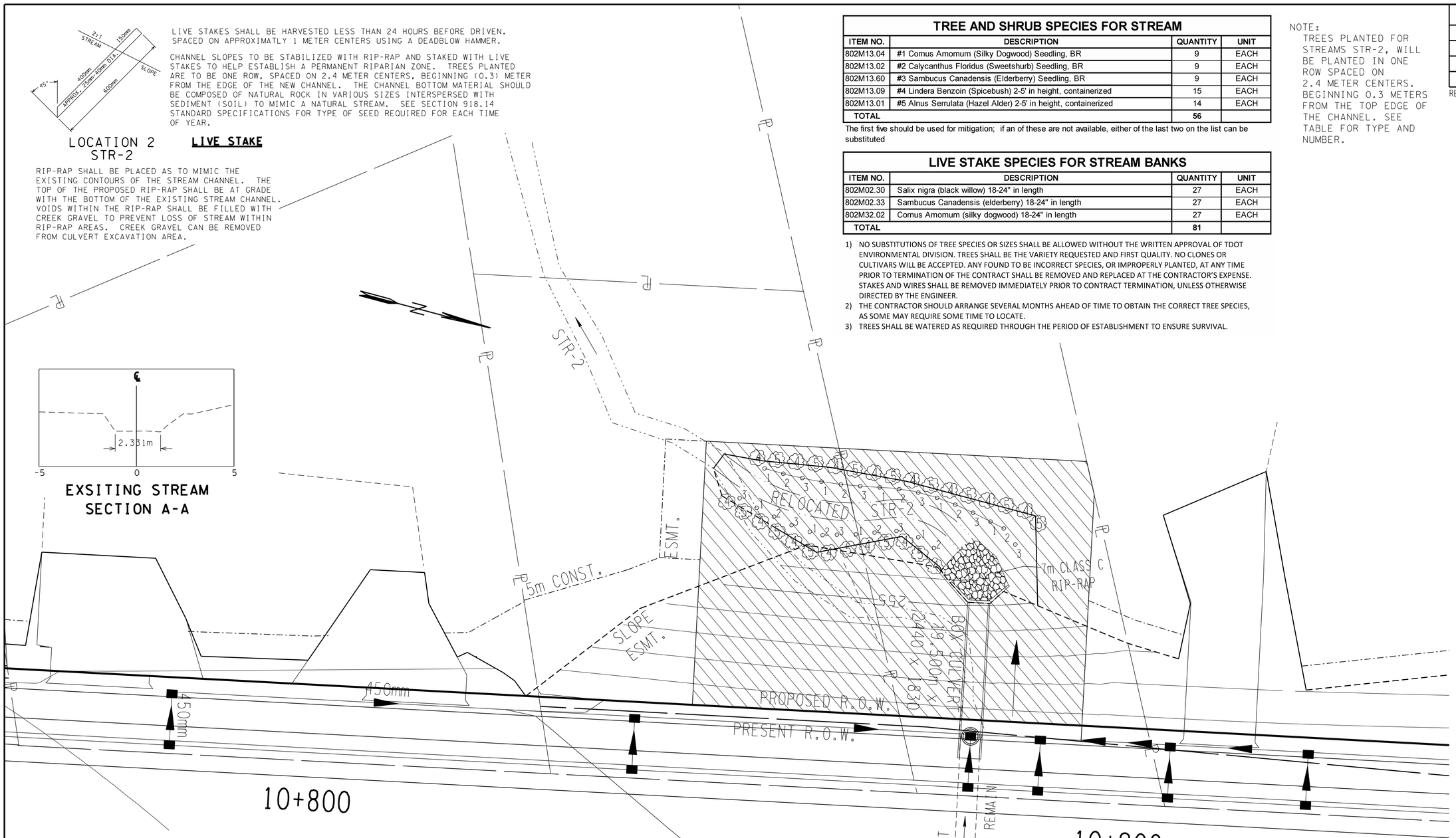
1) NO SUBSTITUTIONS OF TREE SPECIES OR SIZES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF TDOT ENVIRONMENTAL DIVISION. TREES SHALL BE THE VARIETY REQUESTED AND FIRST QUALITY. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY FOUND TO BE INCORRECT SPECIES, OR IMPROPERLY PLANTED, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. STAKES AND WIRES SHALL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2) THE CONTRACTOR SHOULD ARRANGE SEVERAL MONTHS AHEAD OF TIME TO OBTAIN THE CORRECT TREE SPECIES, AS SOME MAY REQUIRE SOME TIME TO LOCATE.
3) TREES SHALL BE WATERED AS REQUIRED THROUGH THE PERIOD OF ESTABLISHMENT TO ENSURE SURVIVAL.

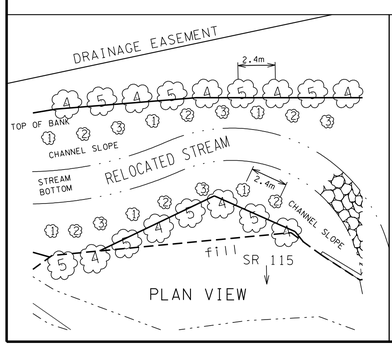
NOTE:
TREES PLANTED FOR STREAMS STR-2, WILL BE PLANTED IN ONE ROW SPACED ON 2.4 METER CENTERS. BEGINNING 0.3 METERS FROM THE TOP EDGE OF THE CHANNEL. SEE TABLE FOR TYPE AND NUMBER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	86
CONST.	2016	47026-3279-14	86

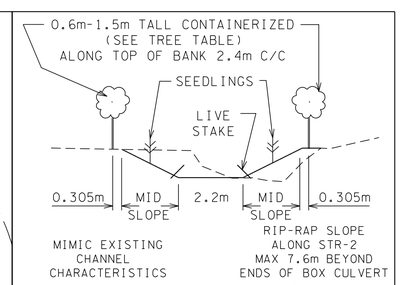
REV. 24-APR.-2015: ADDED SHEET.

EXSITING STREAM
SECTION A-A





PLAN VIEW



PROPOSED CHANNEL CROSS SECTION A-A
STREAM STR-2 LOOKING UPSTREAM

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MITIGATION
PLAN

STA.10+600 - STA.10+900

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	47026-2268-04	86A

REV. 17-SEP-2015: ADDED SHEET.

STANDARD STREAM MITIGATION:

(1) IF THE RELOCATED CHANNEL FLOWS INTO A PROPOSED CULVERT, THE NEW CHANNEL SHALL BE RELOCATED PRIOR TO INSTALLATION OF THE CULVERT TO ENSURE CORRECT ELEVATION LEVELS ARE SET FOR THE INLET. THE NEW CHANNEL SHALL BE EXCAVATED AND STABILIZED DURING A LOW-WATER PERIOD. RIP-RAP (ONLY AS SHOWN ON PLANS). SEEDING OR SOD SHALL BE INSTALLED IMMEDIATELY FOLLOWING CHANNEL COMPLETION. TREES SHALL BE INSTALLED IN THE FIRST PLANTING SEASON FOLLOWING CHANNEL EXCAVATION. WATER SHALL BE DIVERTED INTO THE NEW CHANNEL ONLY AFTER IT IS COMPLETELY STABILIZED, AND ONLY DURING A LOW WATER PERIOD. STABILIZED MEANS THAT ALL SPECIFIED ROCK AND EROSION CONTROL BLANKET IS IN PLACE, AND SEEDING AND SOD ARE IN PLACE AND ESTABLISHED.

(2) CHANNEL RELOCATION SEQUENCE

A) FLAG EDGE OF THE NEW CHANNEL TOP OF BANK PRIOR TO CLEARING. DO NOT CLEAR LARGE TREES IN POSITION TO SHADE THE NEW CHANNEL. LEAVE AS MANY TREES AND SHRUBS AS POSSIBLE BETWEEN TOE OF THE NEW HIGHWAY SLOPE AND THE STREAM.

B) EXCAVATE THE NEW CHANNEL 'IN THE DRY' BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.

C) SHAPE CHANNEL TO SPECIFICATIONS SHOWN. REMOVE LOOSE SOILS AND DEBRIS.

D) PLACE TOPSOIL, EROSION CONTROL BLANKET, SEED AND SOD AS SPECIFIED.

E) REMOVE DIVERSION BERMS, BEGINNING WITH THE MOST DOWN STREAM. BANKS AND BOTTOM ELEVATION OF THE OLD CHANNEL SHOULD TRANSITION SMOOTHLY INTO THE NEW CHANNEL. THE ELEVATIONS OF THE NEW CHANNEL BOTTOM AT EACH END OF THE RELOCATION SEQUENCE SHOULD MATCH THE ELEVATIONS OF THE EXISTING CHANNEL, AND A STEADY PERCENT SLOPE SHOULD BE MAINTAINED THROUGHOUT THE RELOCATED CHANNEL CENTERLINE OR AS SPECIFIED.

F) INSTALL TREES ACCORDING TO STANDARD SPECIFICATIONS SECTION 802.

(3) ONLY RIP-RAP SHOWN ON PLANS SHOULD BE USED IN THE RELOCATED CHANNEL REACH. ANY OTHER PROPOSED RIP-RAP SHOULD BE COORDINATED WITH THE ENVIRONMENTAL DIVISION.

(4) REQUESTS BY ANY AGENCY THAT WOULD REQUIRE THE MODIFICATION OF CHANNELS, DITCHES, ELEVATIONS, RIP-RAP OR ANY OTHER STREAM MITIGATION ITEMS ASSOCIATED WITH THE CHANNEL RELOCATIONS SHALL BE REFERRED TO THE TDOT ENVIRONMENTAL DIVISION VIA THE HEADQUARTERS CONSTRUCTION OFFICE FOR THE COORDINATION WITH ALL AGENCIES AND TDOT DIVISIONS. THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION MAY MAKE RECOMMENDATIONS CONCERNING EROSION CONTROL VIA THE ENGINEER WITHOUT SUCH REFERRAL.

TREES:

(1) NO SUBSTITUTIONS OF TREE SPECIES OR SIZES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF TDOT ENVIRONMENTAL DIVISION. TREES SHALL BE THE VARIETY REQUESTED AND FIRST QUALITY. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY FOUND TO BE INCORRECT SPECIES, OR IMPROPERLY PLANTED, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. STAKES AND WIRES SHALL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

(2) THE CONTRACTOR SHOULD ARRANGE SEVERAL MONTHS AHEAD OF TIME TO OBTAIN THE CORRECT TREE SPECIES, AS SOME MAY REQUIRE SOME TIME TO LOCATE.

(3) TREES SHALL BE WATERED AS REQUIRED THROUGH THE PERIOD OF ESTABLISHMENT TO ENSURE SURVIVAL.

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TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STREAM MITIGATION NOTES

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	87

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	ITEM NO. 712M06 (M2)	SIZE IN MILIMETERS	M.U.T.C.D. NO.
	705M08.51	PORTABLE IMPACT ATTENUATOR NCHRP 350 TL-3	EACH	15			
	712M01	TRAFFIC CONTROL	L.S	1			
	712M02.02	INTERCONNECTED PORTABLE BARRIER RAILS	M	7270			
	712M04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	150			
	712M05.01	WARNING LIGHTS (TYPE A)	EACH	38			
	712M05.03	WARNING LIGHTS (TYPE C)	EACH	50			
	712M06.01	VERTICAL PANELS	M2	485		300 x 600	
	712M07.03	TEMPORARY BARRICADES (TYPE III)	M	209			
	712M08.03	TYPE "C" ARROW BOARD	EACH	4			
	713M16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	4			
	716M01.05	TEMPORARY RAISED PAVEMENT MARKER	EACH	1500			
3	716M06.16	(CONSTRUCTION) REDUCED SPEED WARNING	EACH	2			
	712M06	ROAD WORK NEXT 2 MILES	M2	2	1.440	1200 x 600	G20-1
1	712M06	END ROAD WORK	M2	15	10.800	1200 x 600	G20-2
	712M06	TRUCKS ENTERING HIGHWAY	M2	2	2.880	1200 x 1200	
	712M06	END DETOUR	M2	2	0.540	600 x 450	M4-8A
	712M06	DETOUR WITH ARROW - LEFT	M2	4	1.800	750 x 600	M4-9L
	712M06	DETOUR WITH ARROW - RIGHT	M2	4	1.800	750 x 600	M4-9R
	712M06	SIGNS (ROAD CLOSED)	EACH	3	2.700	1200 x 750	R11-2
	712M06	SIGNS (ROAD CLOSED TO THRU TRAFFIC)	EACH	1	1.125	1500 x 750	R11-4
	712M06	2 LANE SHIFT - LEFT	M2	2	2.880	1200 x 1200	W1-4BL
	712M06	2 LANE SHIFT - RIGHT	M2	2	2.880	1200 x 1200	W1-4BR
	712M06	LANE SHIFT AHEAD	M2	2	2.880	1200 x 1200	W1-4B(MOD.)
	712M06	ROAD NARROWS	M2	4	5.760	1200 x 1200	W5-1
					0.000		
1	712M06	BE PREPARED TO STOP	M2	4	5.760	1200 x 1200	W3-4
	712M06	SHOULDER DROP-OFF	M2	4	5.760	1200 x 1200	W8-9a OR W8-11
	716M06	SPEED ADVISORY PLATE	M2		0.000	600 x 600	W13-1P
	712M06	ROAD WORK AHEAD	M2	5	7.200	1200 x 1200	W20-1
	712M06	ROAD WORK 500 FT	M2	11	15.840	1200 x 1200	W20-1
	712M06	ROAD WORK 1000 FT	M2	8	11.520	1200 x 1200	W20-1
	712M06	ROAD WORK 1500 FT	M2	7	10.080	1200 x 1200	W20-1
	712M06	ROAD WORK 1/2 MILE	M2	2	2.880	1200 x 1200	W20-1
	712M06	ROAD WORK 1 MILE	M2	2	2.880	1200 x 1200	W20-1
	712M06		M2		0.000	1200 x 1200	W20-3
	712M06	ROAD CLOSED AHEAD	M2	2	2.880	1200 x 1200	W20-3
	712M06	ROAD CLOSED 500 FT	M2	12	17.280	1200 x 1200	W20-3
	712M06	ROAD CLOSED 1000 FT	M2	6	8.640	1200 x 1200	W20-3
	712M06	ROAD CLOSED 1500 FT	M2	6	8.640	1200 x 1200	W20-3
	712M06	ONE LANE ROAD AHEAD	M2		0.000	1200 x 1200	W20-4
	712M06	FLAGGER AHEAD	M2	2	2.880	1200 x 1200	W20-7A
	712M06	SHOULDER CLOSED AHEAD	M2	2	2.880	1200 x 1200	W21-5B
	712M06	SHOULDER CLOSED	M2	2	2.880	1200 x 1200	W21-5B
	712M06	BALSTING ZONE AHEAD	M2	3	4.320	1200 x 1200	W22-1
	712M06	TURN OFF 2-WAY RADIO AND CELL PHONE	M2	3	2.835	1050 x 900	W22-2
	712M06	END BLASTING ZONE	M2	3	2.835	1050 x 900	W22-3
2	712M06	RECORD A COMMENT	M2	2	3.834	2130 x 900	TN-55a
	TOTAL				**159.309**		

SEE SHEETS 90-114.

1. SIGNS MAY BE USED CONCURRENTLY FOR TRAFFIC CONTROL.
2. 1.219mmx 438mm (BLUE BACKGROUND WITH WHITE COPY) 0.100" SHEET ALUMINUM.
3. ITEM TO BE USED WHEN THE CONTRACTOR ESTABLISHES A REDUCED SPEED LIMMIT WITHIN TH EPROJECT CONSTRUCTION WORK ZONE LIMITS. ITEM INCLUDES SIGN FACE, SUPPORTS, AND TWO TYPE "B" FLASHERS PER THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TURNING ONTHE TYPE "B" FLASHERS WHEN WORKERS AREIN THE CONSTRUCTION WORK ZONE AND TURNING THEM OFF WHEN WORKERS ARE NO LONGER IN THE CONSTRUCTION WORK ZONE.

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METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL QUANTITIES

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONSTR.	2016	47026-3279-14	88

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. ---

TRAFFIC CONTROL SPECIAL NOTES

(1) THIS CONSTRUCTION SIGNING PLAN IS TO SERVE AS A GUIDE ONLY. OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION. THE TRAFFIC CONTROL PLAN DOES NOT RELEIVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

(2) TYPICAL DRUM SPACING SHALL BE 25'. DRUMS USED FOR TAPER DELINEATION SHALL DISPLAY TYPE "C" WARNING LIGHTS.

(3) SIGNS NOT NEEDED DURING ANY PARTICULAR PHASE (IF ALREADY INSTALLED) ARE TO BE COVERED.

(4) THE CONTRACTOR IS TO MAINTAIN ACCESS TO ALL LOCAL PROPERTY OWNERS.

(5) APPROVAL OF THE STATE TRAFFIC ENGINEER IS REQUIRED BEFORE PLACING THE "REDUCED SPEED AHEAD" R2-5A AND THE "SPEED LIMIT" R2-1 SIGNS.

(6) PORTABLE MESSAGE BOARD SHOULD BE USED ONLY WHEN TRAFFIC CONDITIONS WARRANT.

(7) REFER TO THE STANDARD DRAWING NO. T-WZ-11 FOR PORTABLE BARRIER RAIL PLACEMENT, TAPERS AND END TREATMENT.

(8) CONTRACTOR WILL PROVIDE A BLASTING PLAN AT THE PRE-CONSTRUCTION MEETING FOR USACE APPROVAL TWO WEEKS PRIOR TO WHEN BLASTING BEGINS.

(9) RAISED PAVEMENT MARKERS ARE TO BE PLACED IN A SINGLE ROW, NOT STAGGERED, UNDER ALL APPLICATIONS.

(10) IF PROJECT ENGINEER HAS SPECIFIC RECOMMENDATIONS THEY SHOULD BE DISCUSSED AT THE CONSTRUCTION FIELD REVIEW.

(11) MISSING RAISED PAVEMENT MARKERS SHALL BE REPLACED:

A.) AT LEAST MONTHLY OR B.) AT THE INSTRUCTION OF THE ENGINEER.

(12) ALL RAISED PAVEMENT MARKERS SHALL BE REMOVED BEFORE PLACEMANT OF THE FINAL PAVEMENT SURFACE. THE COST OF REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR RAISED PAVEMENT MARKERS.

(13) WATER LEVELS MIGHT FLUCTUATE BY SEVERAL FEET. THE CONTRACTOR SHOULD AVAIL HIMSELF OF THE HISTORICAL RECORDS OF THE WATER LEVELS MAINTAINED BY THE T.V.A. AND DETERMINE THE IMPACTS THAT POSSIBLE FLUCTUATIONS MAY HAVE ON PLANNED CONSTRUCTION.

STAGING AREAS

(1) STAGING OR STORAGE SPACE IS PROHIBITED OUT SIDE OF EXISTING AND PROPOSED ROW.

HAUL ROADS / WATER ACCESS ROUTES

1) SHOULD CONTRACTOR WISH TO CONSTRUCT HAUL ROADS IN ADDITION TO OR IN LIEU OF THOSE PROVIDED FOR THE PLANS OR CONTRACT DOCUMENTS, THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND/OR CONSTRUCTION EASEMENT NEEDED FOR CONSTRUCTION AND REMOVAL OF A HAUL ROAD. IN ADDITION, HAUL ROADS/WATER ACCESS ROUTES NOT SHOWN ON PLANS WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT THE COSTS SHALL BE INCLUDED IN OTHER ITEMS OF CONSTRUCTION. THE DEPARTMENT WILL NOT COMPENSATE THE CONTRACTOR FOR ADDITIONAL COSTS OR CONTRACT TIME DUE TO THE ADDITION OF HAUL ROADS.

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PROPOSED CONSTRUCTION SEQUENCE

INSTALL REQUIRED TRAFFIC CONTROL DEVICES, EROSION PREVENTION AND SEDIMENT CONTROL MEASURES AND SAFETY DEVICES.

SEE STEP ONE OF EROSION PREVENTION AND SEDIMENT CONTROL PLAN FOR WORK ITEMS REQUIRED PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING. INSTALL CATCHMENT FENCE OR EQUIVALENT.

PHASE I

GRADE, DRAIN AND PAVE CUT AREA BACK OF CATCHMENT FENCE BETWEEN STATIONS 11+300 – STATION 12+200 LEFT. AND STATION 12+000 TO STATION 12+700 RT. INSTALL STORM DRAINAGE STR-3 FROM STA.11+600 TO STA. 12+700.

EMBANKMENT MATERIAL IS TO BE PLACED IN RAMPS A AND B, COLLECTORS ONE, THREE, AND SIX; DRESSER ROAD RAMP AND ALSO AT MOUNT VERNON DRIVE AND THE MALONEY BRIDGE EMBANKMENTS.

CONSTRUCT ROUNDABOUT AND RAMP ON MALONEY ROAD DRESSER ROAD AND COLLECTOR NO 6.

CONSTRUCT COLLECTOR NO 3 INCLUDING BARBER HILL ROAD AND TIE TO WOODSON DRIVE.

THE FOUR-LANE TRAFFIC IS TO REMAIN ON THE EXISTING ROADWAY.

EXISTING DRAINAGE AND DRIVEWAYS MUST BE MAINTAINED.

PHASE II

BEGIN CONSTRUCTION OF THE BRIDGES AT MONTLAKE, MOUNT VERNON AND MALONEY ROADS.

THE AUXILIARY LANES BETWEEN THE MALONEY RAMPS AND THE MOUNT VERNON BRIDGE ARE TO GRADE, DRAIN, AND BEING TEMPORARY PAVED.

EAST AND WEST AUXILIARY LANES, COLLECTORS TWO AND FIVE ARE TO BE COMPLETED SO TRAFFIC CAN FLOW BETWEEN THE MALONEY RAMPS AND MOUNT VERNON BRIDGE ON EACH SIDE OF THE ROADWAY FOR ACCESS TO THE BUSINESSES.

THE EXISTING LOCATION OF THE FOUR-LANE TRAFFIC IS TO BE MAINTAINED, BUT NO LEFT TURNS WILL BE PERMITTED.

PHASE III

TRAFFIC IS NOW ON THE AUXILIARY LANES, MALONEY, AND COLLECTOR 5 INTERCHANGES WITH NO LEFT TURN ON SR115.

TIE IN RAMP B, COLLECTOR 6 AND RAMP A.

PREPARE SOUTH BOUND LANE FOR TEMPORARY WIDENING TO A FOUR LANE

EXCAVATING AND REMOVING EXISTING CENTER ISLANDS AND PREPARING EXISTING SHOULDER TO ACCOMMODATE TRAFFIC.

PHASE IV

WITH THE WEST SIDE OF THE ROADWAY CONSTRUCTED AND MARKED SHIFT THE TRAFFIC (ALL FOUR LANES TO THE WEST SIDE FOR A TEMPORARY ROADWAY AND COMPLETE THE ROAD WORK ON THE EAST SIDE INCLUDING DRAINAGE STRUCTURES, CURB AND GUTTER TIE IN AND PAVEMENT SECTION, ETC. SIGNED AND MARKINGS SHALL BE INSTALLED AS NEEDED.

PHASE V

WITH THE ROADWORK COMPLETED ON THE EAST SIDE SHIFT TRAFFIC TO THE EAST SIDE AND COMPLETE ROAD WORK ON THE WEST SIDE.

COMPLETE CONSTRUCTION OF WALLS, LIGHTS, SIGNS, PAVING AND PAVEMENT MARKINGS. REALIGN TRAFFIC TO FINAL ROADWAY

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TRAFFIC CONTROL NOTES

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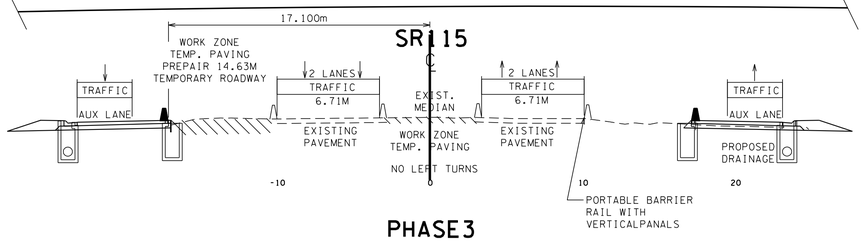
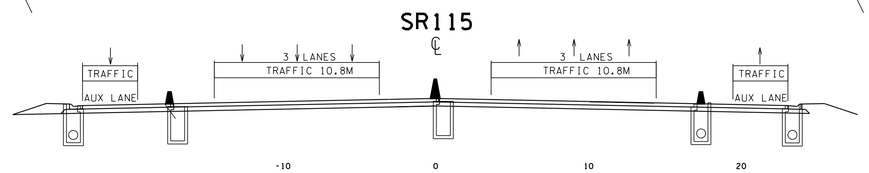
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	89

TRAFFIC ON BRIDGES



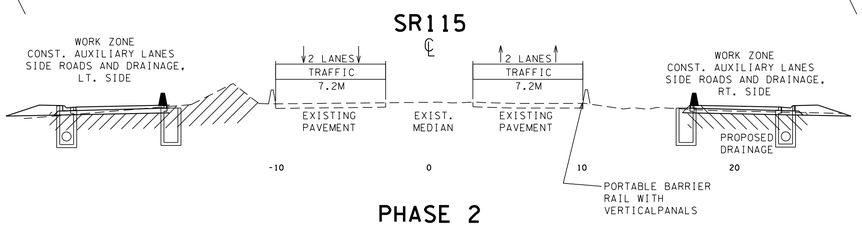
PHASE3

TRAFFIC ON BRIDGES



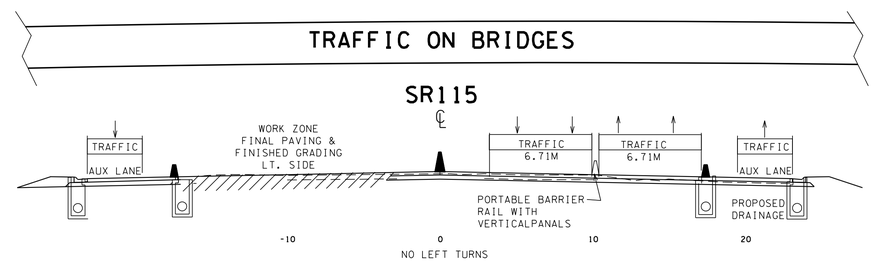
FINAL ROADWAY

CONST. BRIDGES

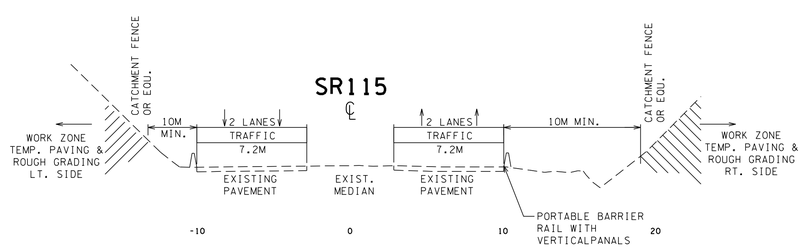


PHASE 2

TRAFFIC ON BRIDGES

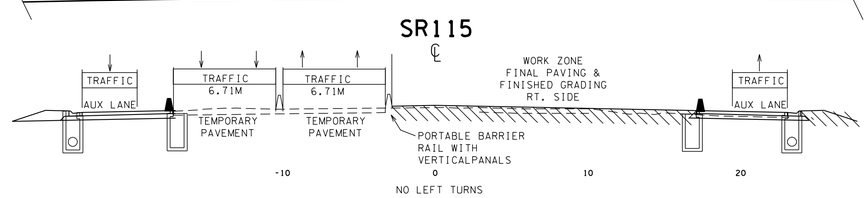


PHASE 5



PHASE 1

TRAFFIC ON BRIDGES



PHASE4

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TRAFFIC CONTROL PLAN PHASING SECTIONS

SCALE: 1:200

9/30/2015
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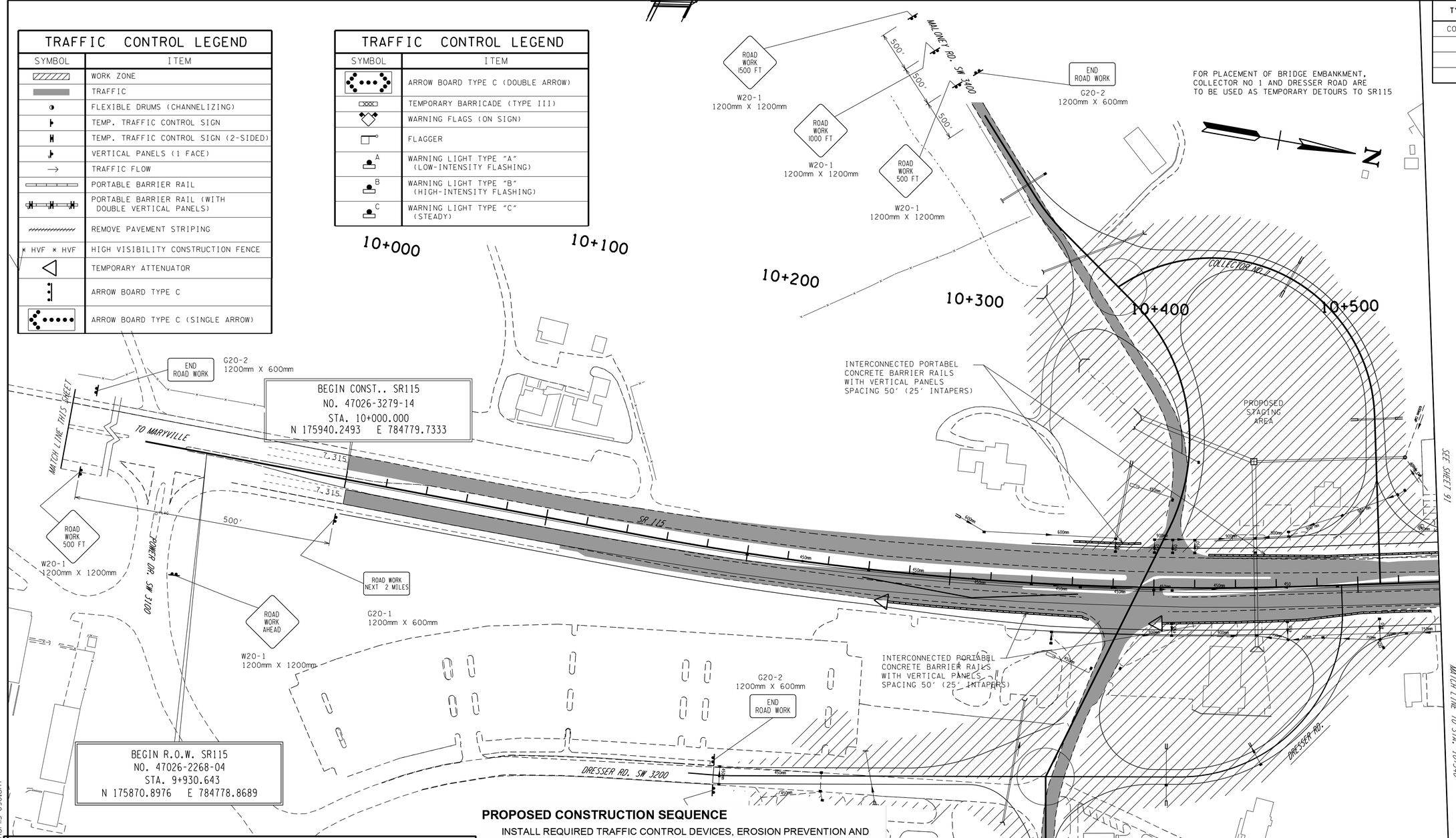
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	90

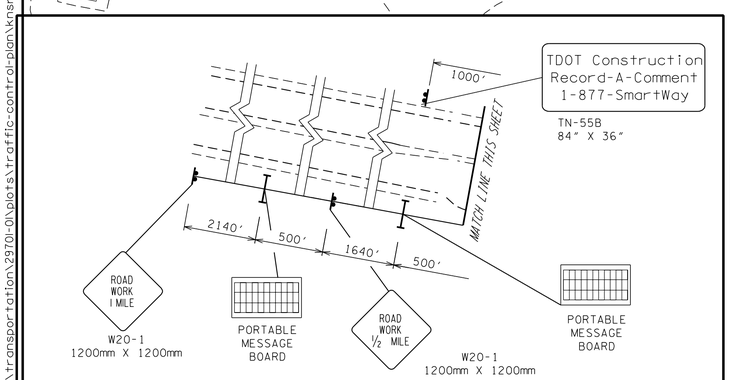
TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	TRAFFIC
	FLEXIBLE DRUMS (CHANNELIZING)
	TEMP. TRAFFIC CONTROL SIGN
	TEMP. TRAFFIC CONTROL SIGN (2-SIDED)
	VERTICAL PANELS (1 FACE)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	REMOVE PAVEMENT STRIPING
HVF HVF	HIGH VISIBILITY CONSTRUCTION FENCE
	TEMPORARY ATTENUATOR
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	ARROW BOARD TYPE C (DOUBLE ARROW)
	TEMPORARY BARRICADE (TYPE III)
	WARNING FLAGS (ON SIGN)
	FLAGGER
A	WARNING LIGHT TYPE "A" (LOW-INTENSITY FLASHING)
B	WARNING LIGHT TYPE "B" (HIGH-INTENSITY FLASHING)
C	WARNING LIGHT TYPE "C" (STEADY)





PROPOSED CONSTRUCTION SEQUENCE

INSTALL REQUIRED TRAFFIC CONTROL DEVICES, EROSION PREVENTION AND SEDIMENT CONTROL MEASURES AND SAFETY DEVICES.

SEE STEP ONE OF EROSION PREVENTION AND SEDIMENT CONTROL PLAN FOR WORK ITEMS REQUIRED PRIOR TO CONSTRUCTION DISTURBANCE AND EARTH MOVING. INSTALL CATCHMENT FENCE OR EQUIVALENT.

PHASE I

GRADE, DRAIN AND PAVE CUT AREA BACK OF CATCHMENT FENCE BETWEEN STATIONS 11+300 – STATION 12+200 LEFT. AND STATION 12+000 TO STATION 12+700 RT. INSTALL STORM DRAINAGE STR-3 FROM STA.11+600 TO STA. 12+700.

EMBANKMENT MATERIAL IS TO BE PLACED IN RAMPS A AND B, COLLECTORS ONE, THREE, AND SIX; DRESSER ROAD RAMP AND ALSO AT MOUNT VERNON DRIVE AND THE MALONEY BRIDGE EMBANKMENTS.

CONSTRUCT ROUNDABOUT AND RAMP ON MALONEY ROAD DRESSER ROAD AND COLLECTOR NO 6.

CONSTRUCT COLLECTOR NO 3 INCLUDING BARBER HILL ROAD AND TIE TO WOODSON DRIVE.

THE FOUR-LANE TRAFFIC IS TO REMAIN ON THE EXISTING ROADWAY.

EXISTING DRAINAGE AND DRIVEWAYS MUST BE MAINTAINED UNTIL REPLACED WITH NEW DRAINAGE AND DRIVEWAYS.

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TRAFFIC CONTROL PLAN PHASE 1

STA. 10+000 TO STA.10+540

SCALE: 1:1000

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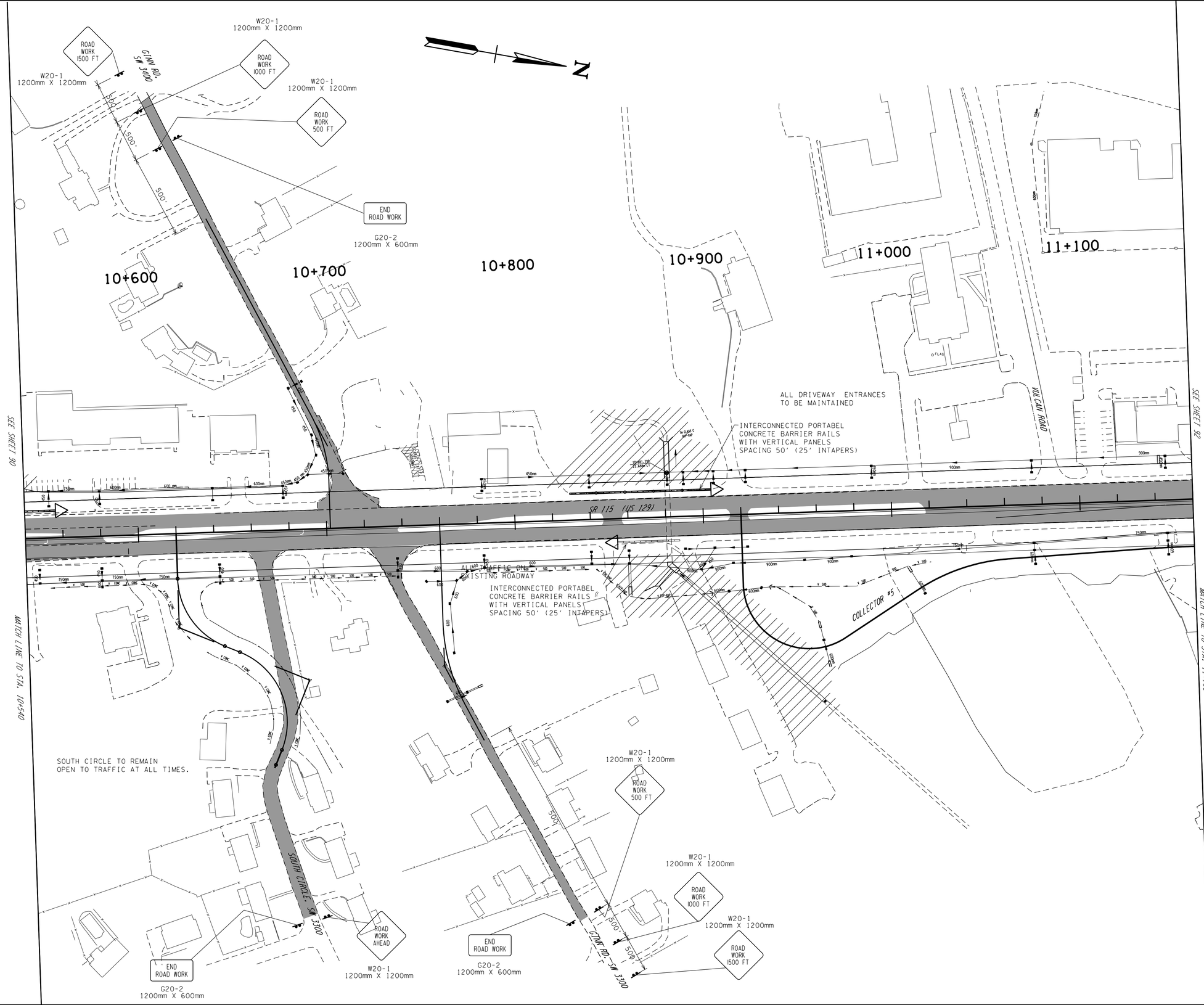
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	91



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TRAFFIC CONTROL PLAN PHASE 1

STA10+540 TO STA.11+160

SCALE: 1:1000

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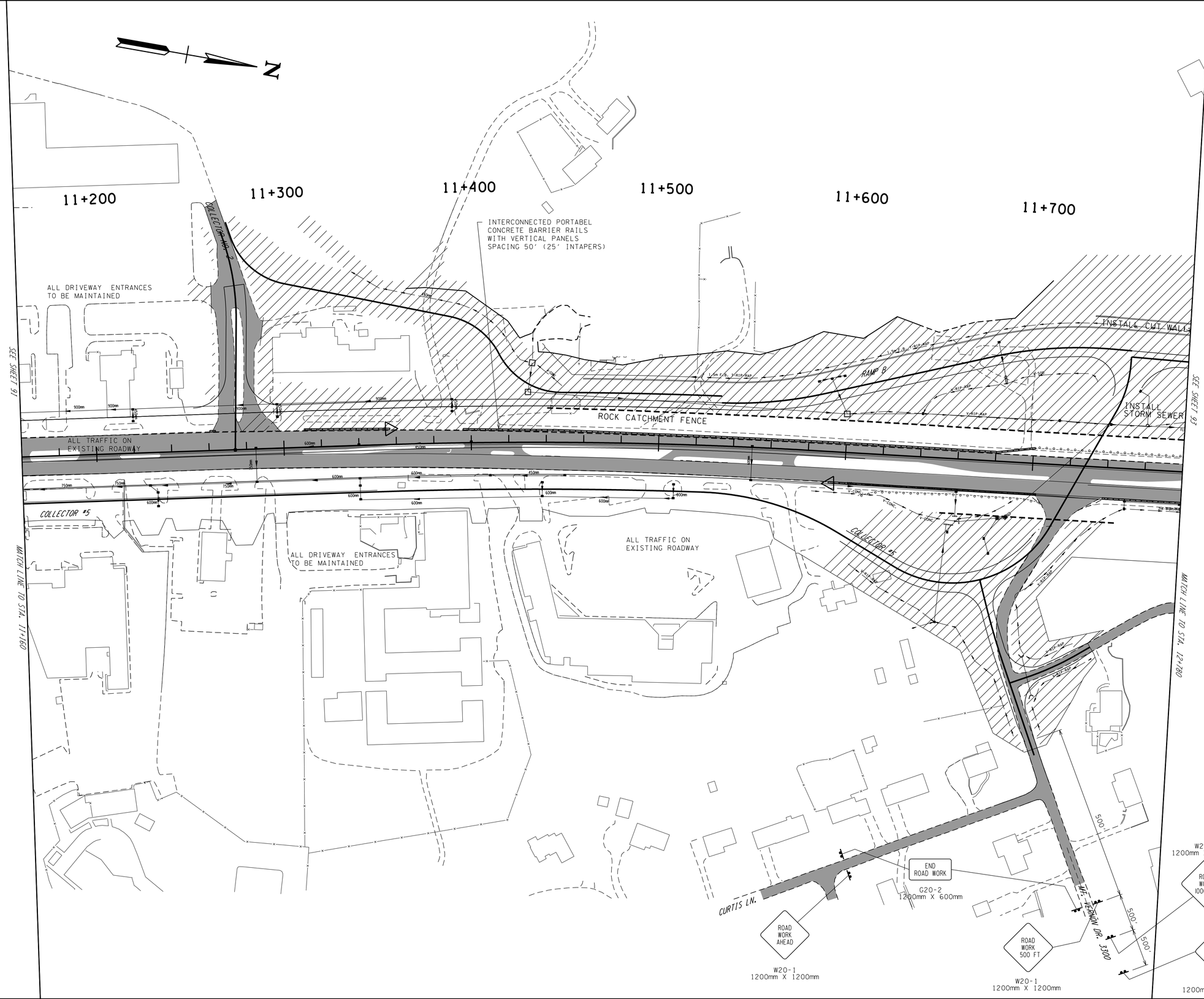
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	92



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TRAFFIC CONTROL PLAN PHASE 1

STA 11+160 TO STA. 11+780

SCALE: 1:

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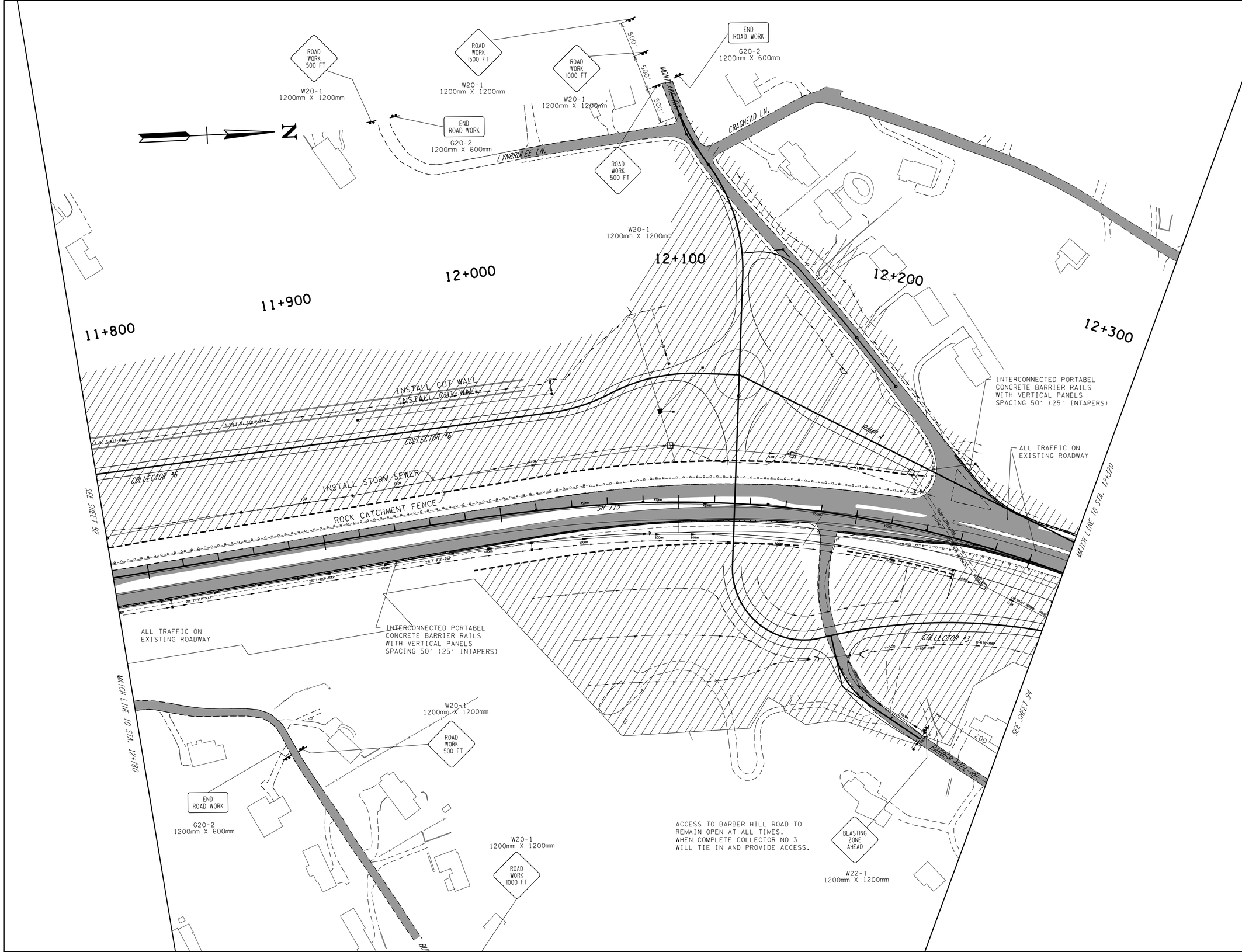
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	93



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TRAFFIC CONTROL PLAN PHASE 1

STA. 11+780 TO STA. 12+320

SCALE: 1:1000

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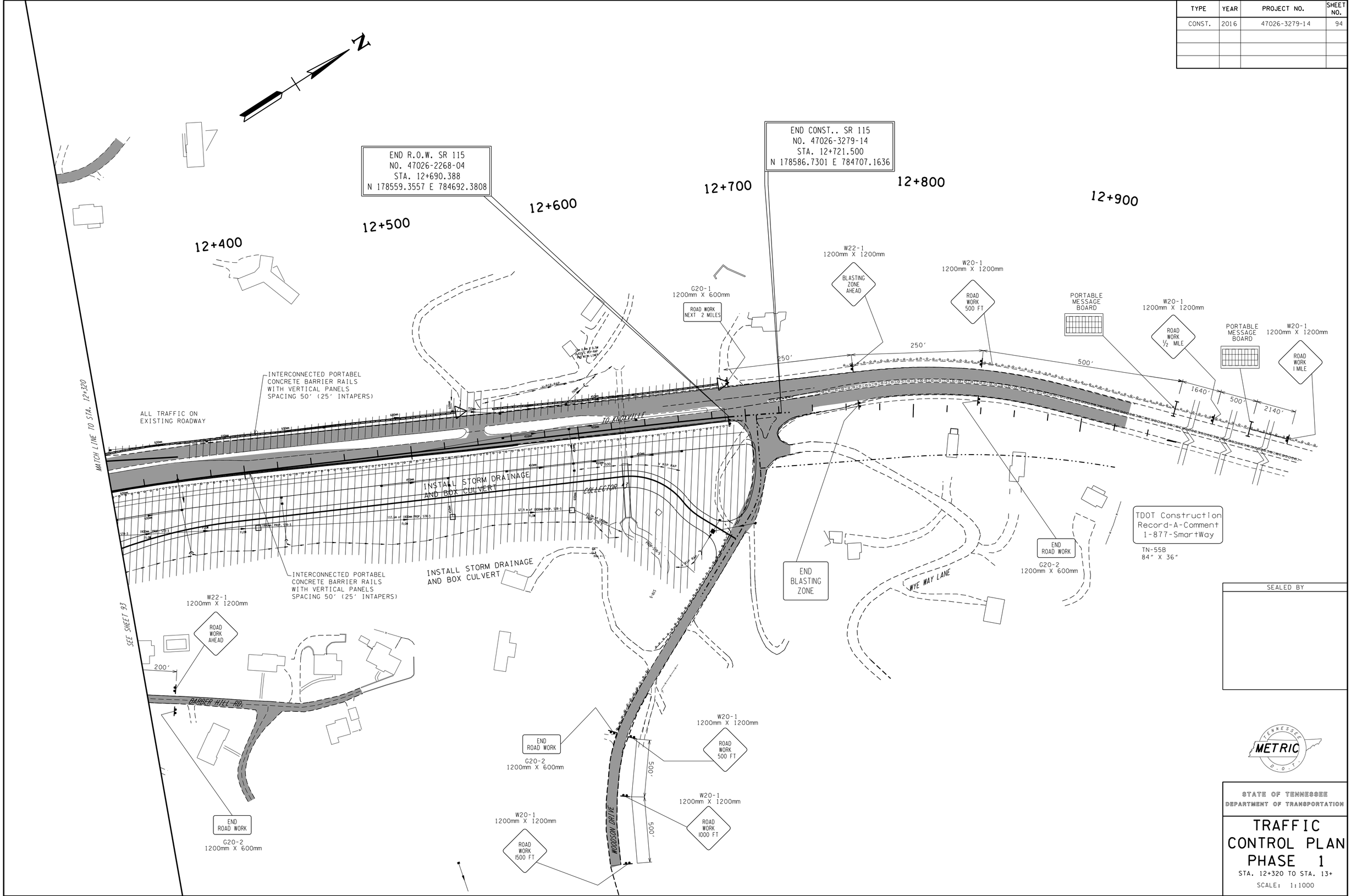
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	94



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TRAFFIC CONTROL PLAN PHASE 1

STA. 12+320 TO STA. 13+

SCALE: 1:1000

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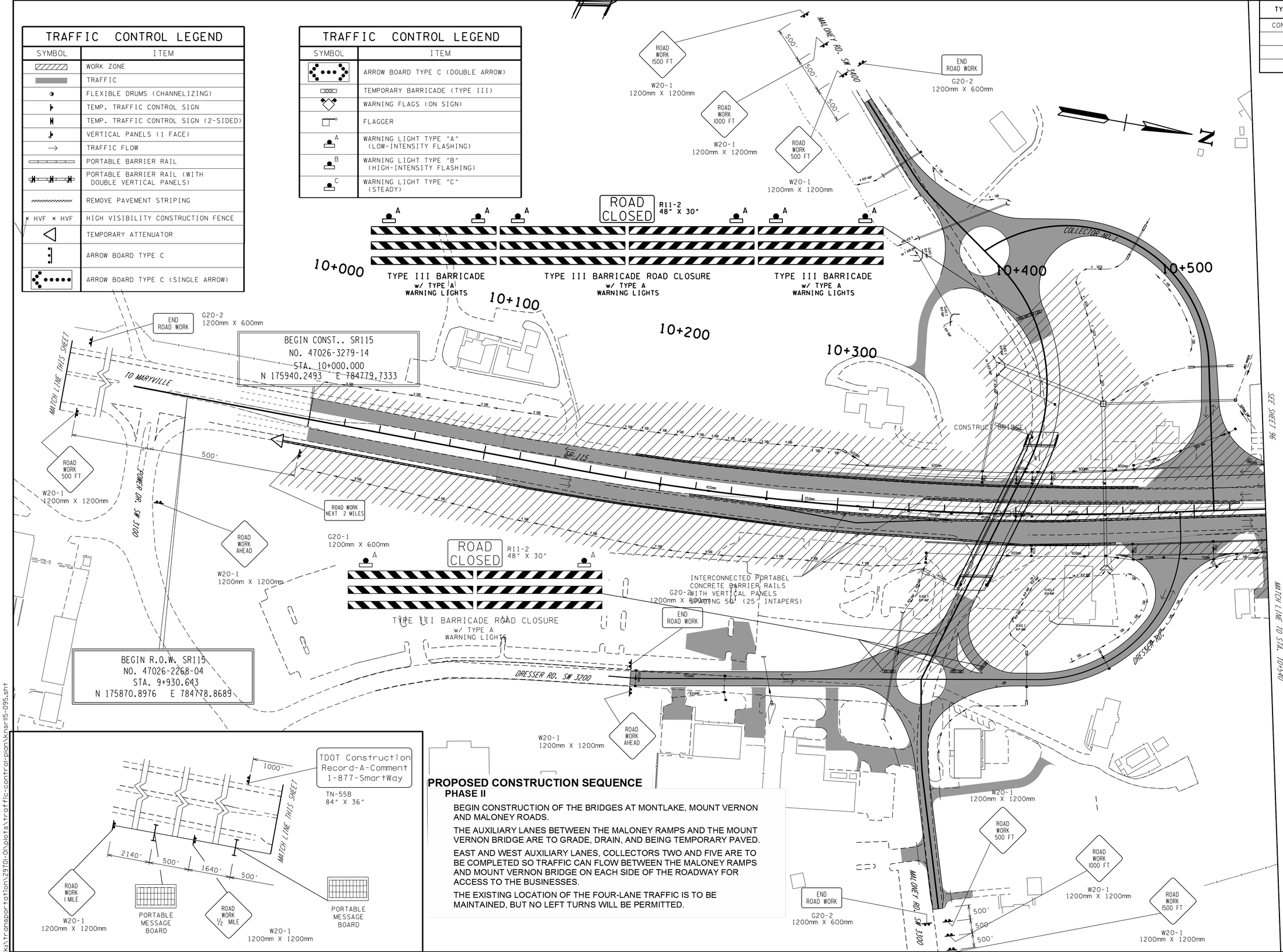
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	95

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	TRAFFIC
	FLEXIBLE DRUMS (CHANNELIZING)
	TEMP. TRAFFIC CONTROL SIGN
	TEMP. TRAFFIC CONTROL SIGN (2-SIDED)
	VERTICAL PANELS (1 FACE)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	REMOVE PAVEMENT STRIPING
HVF HVF	HIGH VISIBILITY CONSTRUCTION FENCE
	TEMPORARY ATTENUATOR
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	ARROW BOARD TYPE C (DOUBLE ARROW)
	TEMPORARY BARRICADE (TYPE III)
	WARNING FLAGS (ON SIGN)
	FLAGGER
A	WARNING LIGHT TYPE "A" (LOW-INTENSITY FLASHING)
B	WARNING LIGHT TYPE "B" (HIGH-INTENSITY FLASHING)
C	WARNING LIGHT TYPE "C" (STEADY)



PROPOSED CONSTRUCTION SEQUENCE

PHASE II

BEGIN CONSTRUCTION OF THE BRIDGES AT MONTLAKE, MOUNT VERNON AND MALONEY ROADS.

THE AUXILIARY LANES BETWEEN THE MALONEY RAMPS AND THE MOUNT VERNON BRIDGE ARE TO GRADE, DRAIN, AND BEING TEMPORARY PAVED.

EAST AND WEST AUXILIARY LANES, COLLECTORS TWO AND FIVE ARE TO BE COMPLETED SO TRAFFIC CAN FLOW BETWEEN THE MALONEY RAMPS AND MOUNT VERNON BRIDGE ON EACH SIDE OF THE ROADWAY FOR ACCESS TO THE BUSINESSES.

THE EXISTING LOCATION OF THE FOUR-LANE TRAFFIC IS TO BE MAINTAINED, BUT NO LEFT TURNS WILL BE PERMITTED.

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TRAFFIC CONTROL PLAN PHASE 2

STA. 10+000 TO STA.10+540

SCALE: 1:1000

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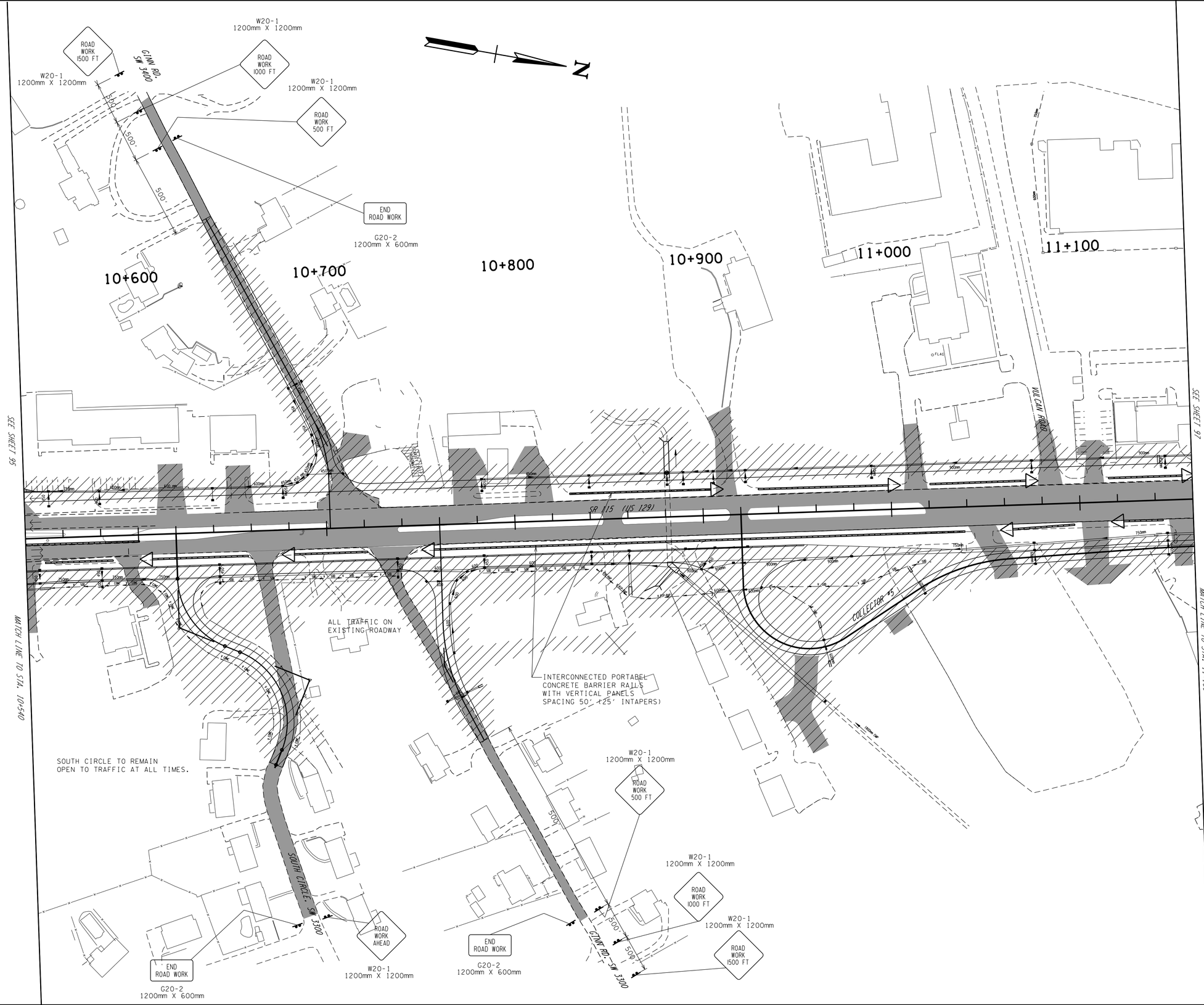
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	96



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TRAFFIC CONTROL PLAN PHASE 2

STA10+540 TO STA.11+160

SCALE: 1:

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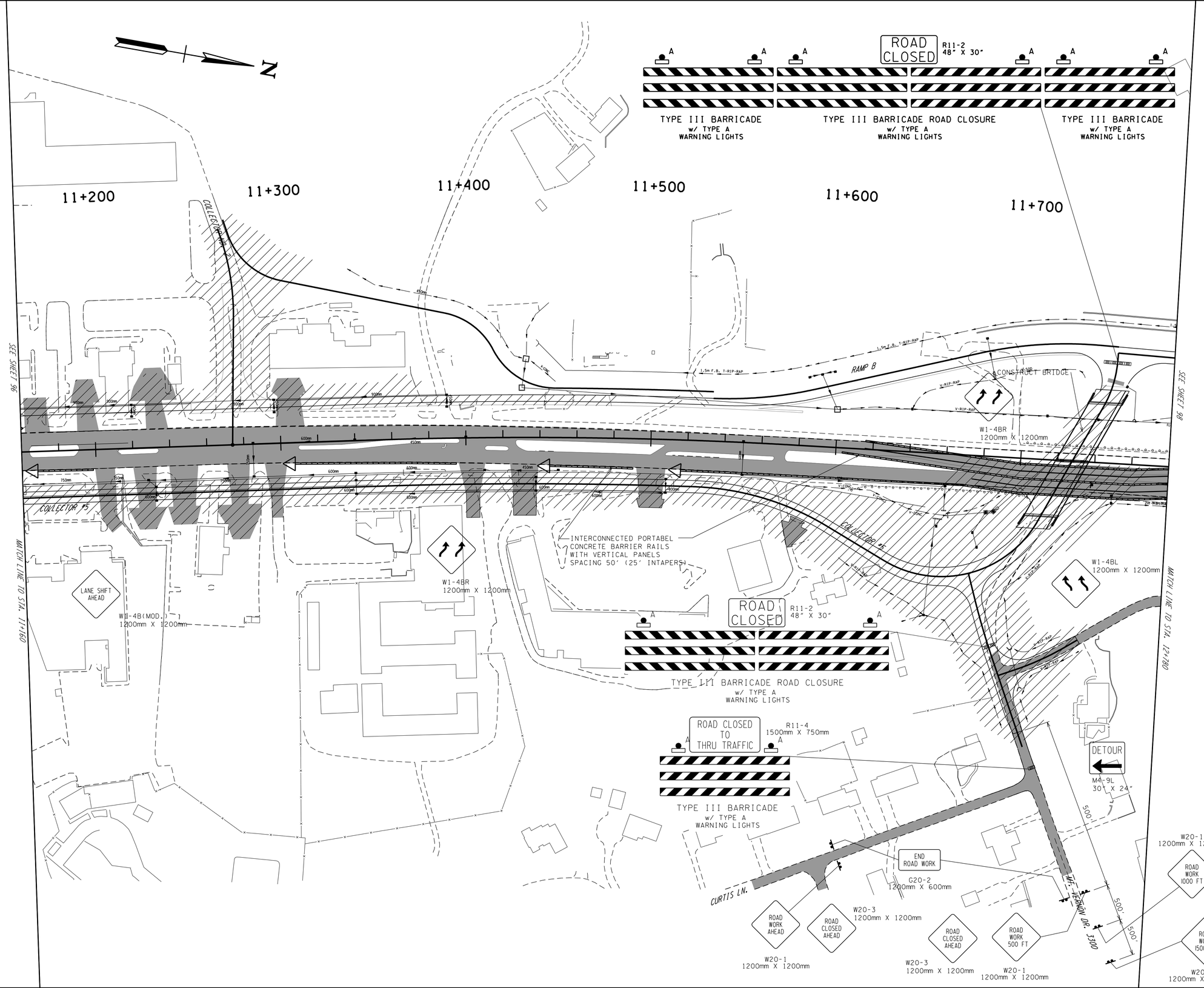
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	97



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TRAFFIC CONTROL PLAN PHASE 2

STA 11+160 TO STA. 11+780

SCALE: 1:

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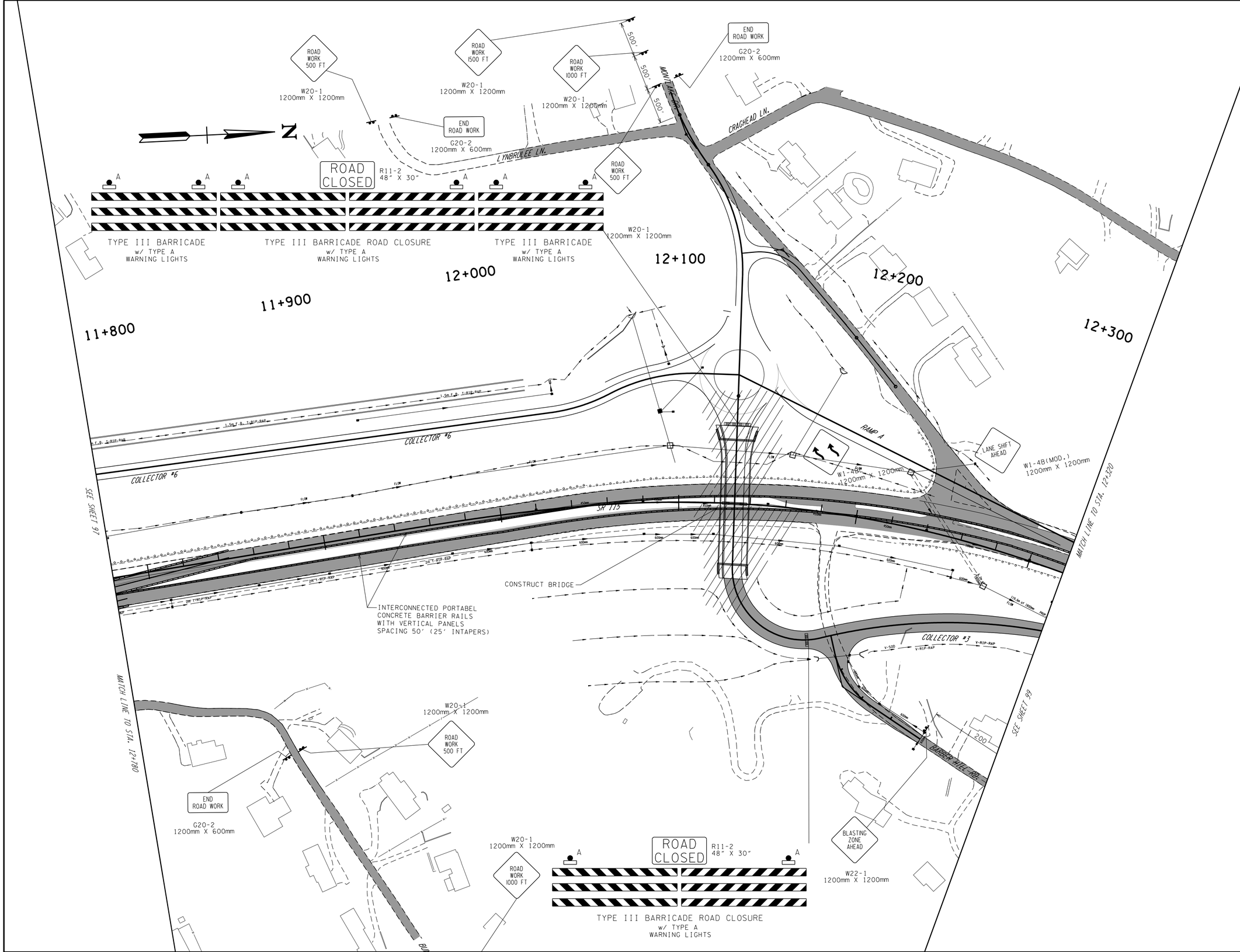
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	98



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TRAFFIC CONTROL PLAN PHASE 2

STA. 11+780 TO STA. 12+320

SCALE: 1:1000

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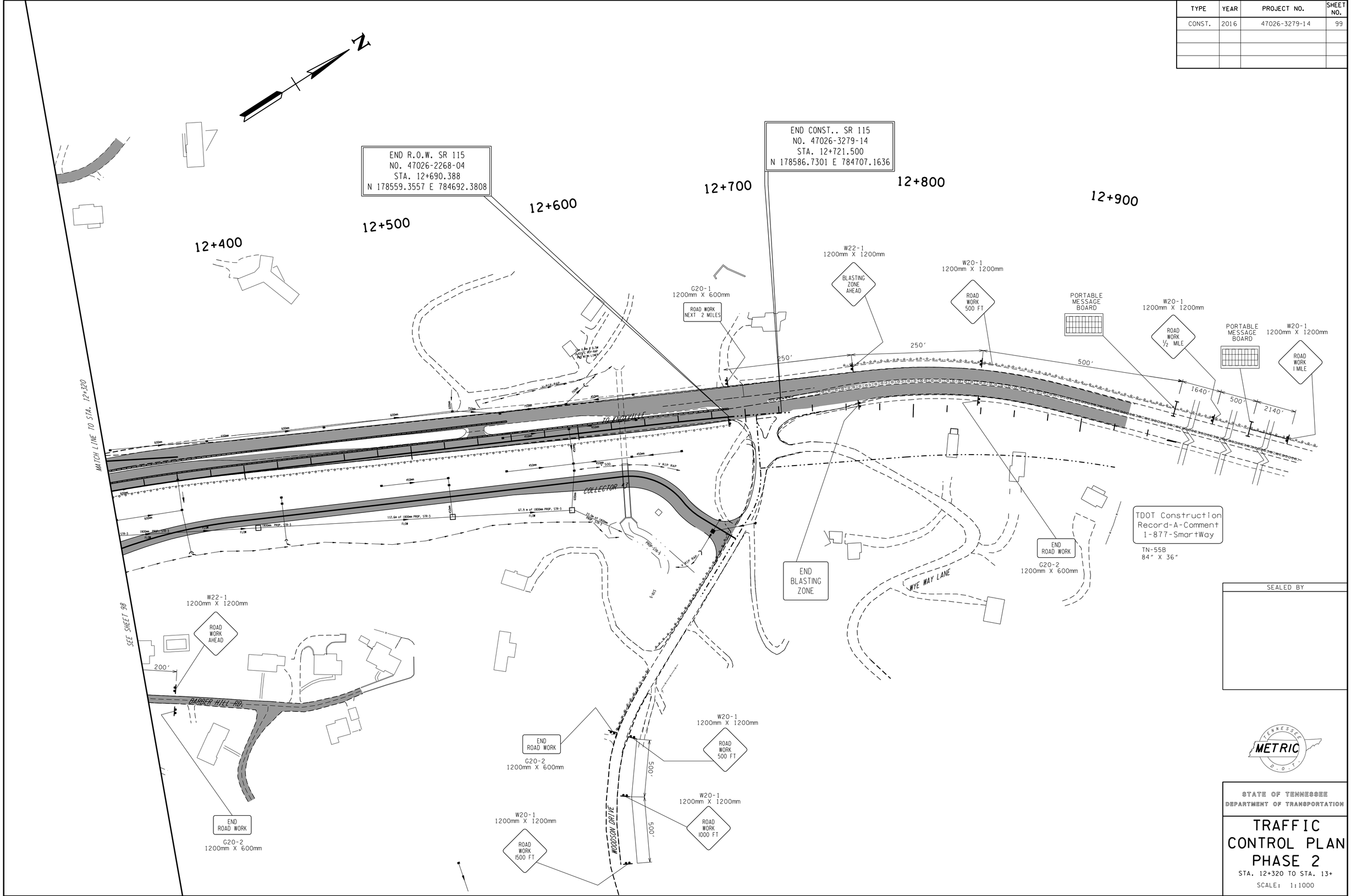
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	99



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TRAFFIC CONTROL PLAN PHASE 2

STA. 12+320 TO STA. 13+

SCALE: 1:1000

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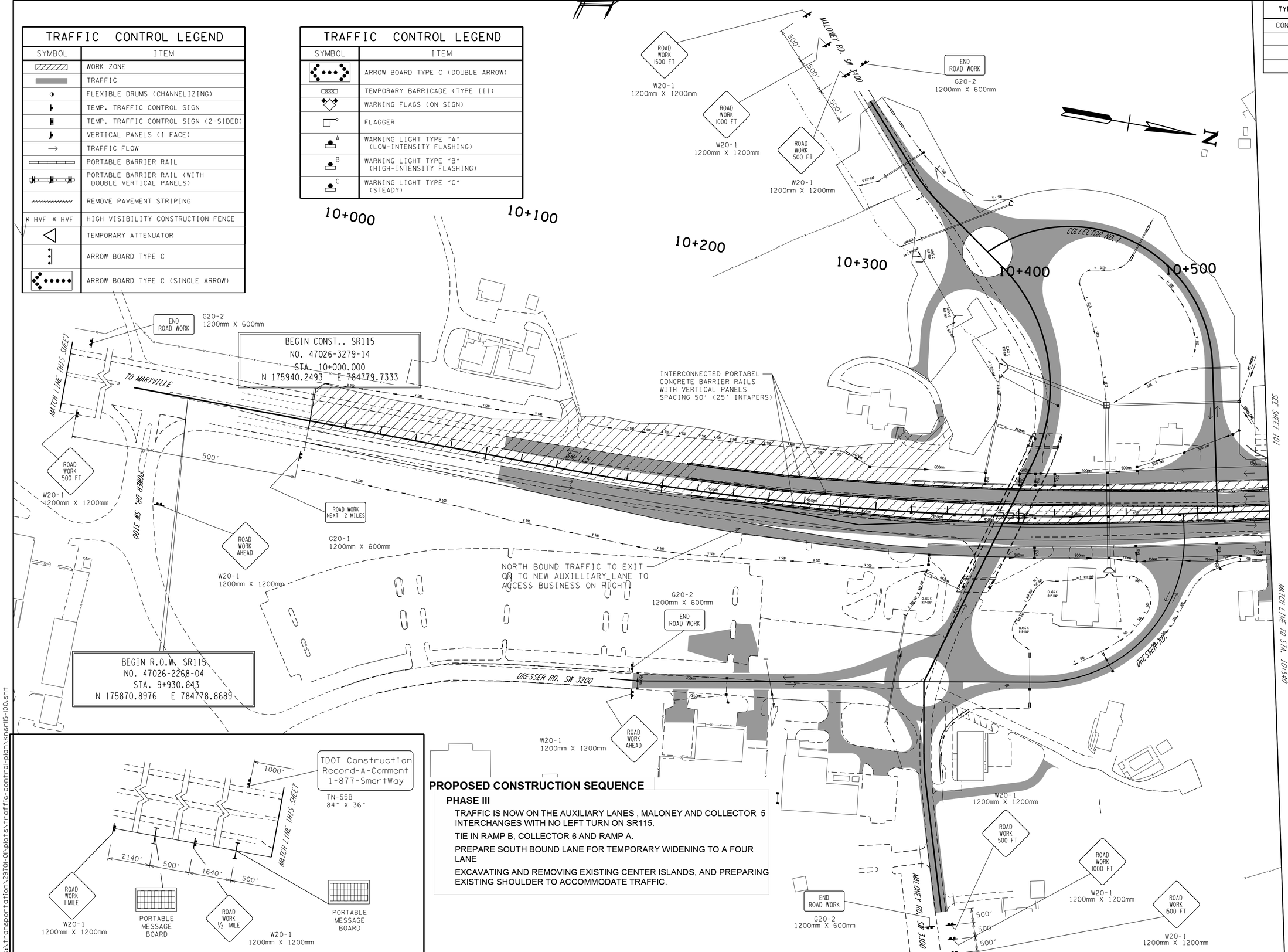
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	100

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	TRAFFIC
	FLEXIBLE DRUMS (CHANNELIZING)
	TEMP. TRAFFIC CONTROL SIGN
	TEMP. TRAFFIC CONTROL SIGN (2-SIDED)
	VERTICAL PANELS (1 FACE)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	REMOVE PAVEMENT STRIPING
* HVF * HVF	HIGH VISIBILITY CONSTRUCTION FENCE
	TEMPORARY ATTENUATOR
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	ARROW BOARD TYPE C (DOUBLE ARROW)
	TEMPORARY BARRICADE (TYPE III)
	WARNING FLAGS (ON SIGN)
	FLAGGER
A	WARNING LIGHT TYPE "A" (LOW-INTENSITY FLASHING)
B	WARNING LIGHT TYPE "B" (HIGH-INTENSITY FLASHING)
C	WARNING LIGHT TYPE "C" (STEADY)



PROPOSED CONSTRUCTION SEQUENCE

PHASE III

TRAFFIC IS NOW ON THE AUXILIARY LANES , MALONEY AND COLLECTOR 5 INTERCHANGES WITH NO LEFT TURN ON SR115.

TIE IN RAMP B, COLLECTOR 6 AND RAMP A.

PREPARE SOUTH BOUND LANE FOR TEMPORARY WIDENING TO A FOUR LANE

EXCAVATING AND REMOVING EXISTING CENTER ISLANDS, AND PREPARING EXISTING SHOULDER TO ACCOMMODATE TRAFFIC.

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 10+000 TO STA.10+540

SCALE: 1:1000

9/30/2015
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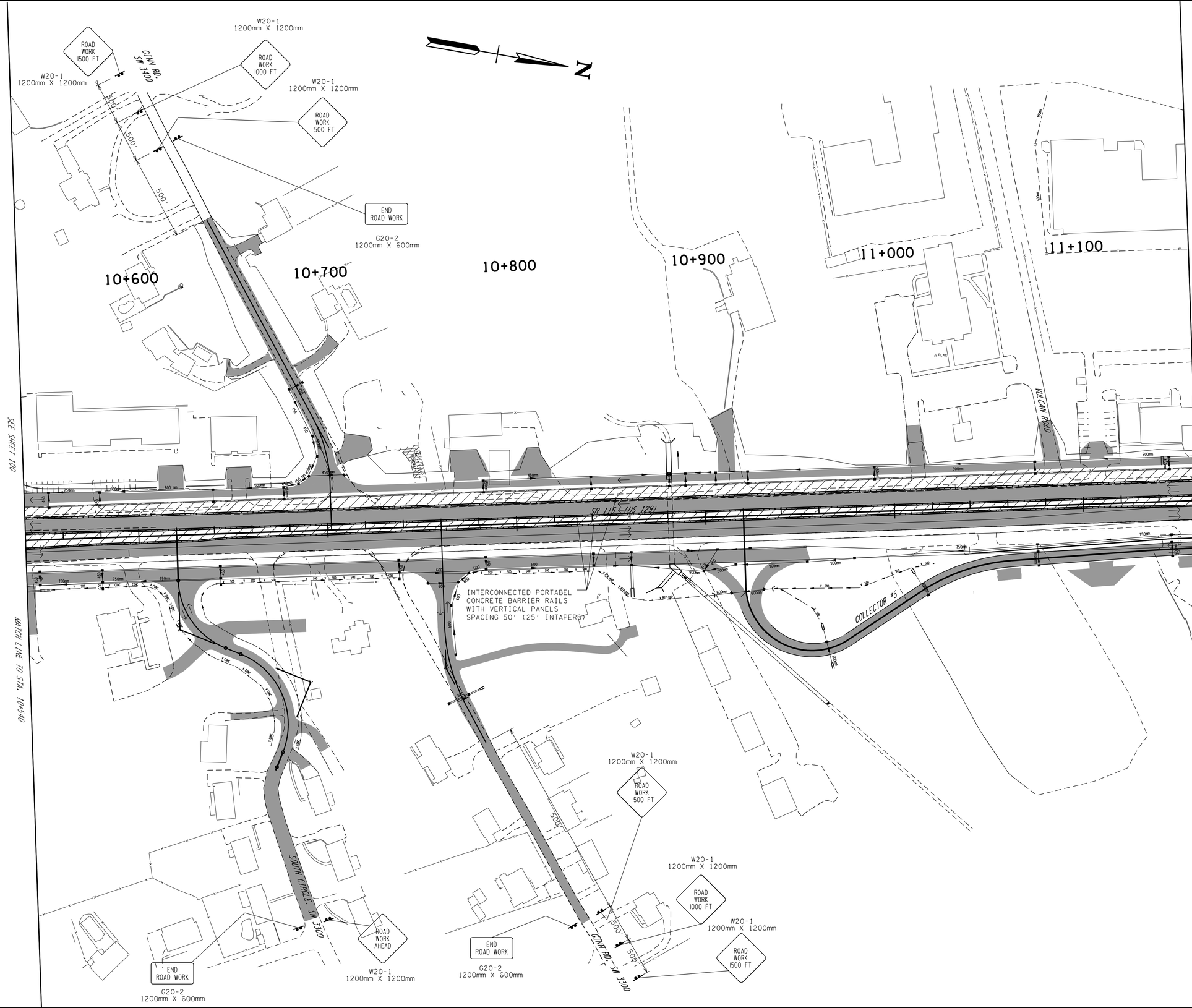
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	101



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TRAFFIC CONTROL PLAN PHASE 3

STA10+540 TO STA.11+160

SCALE: 1:

9/30/2015
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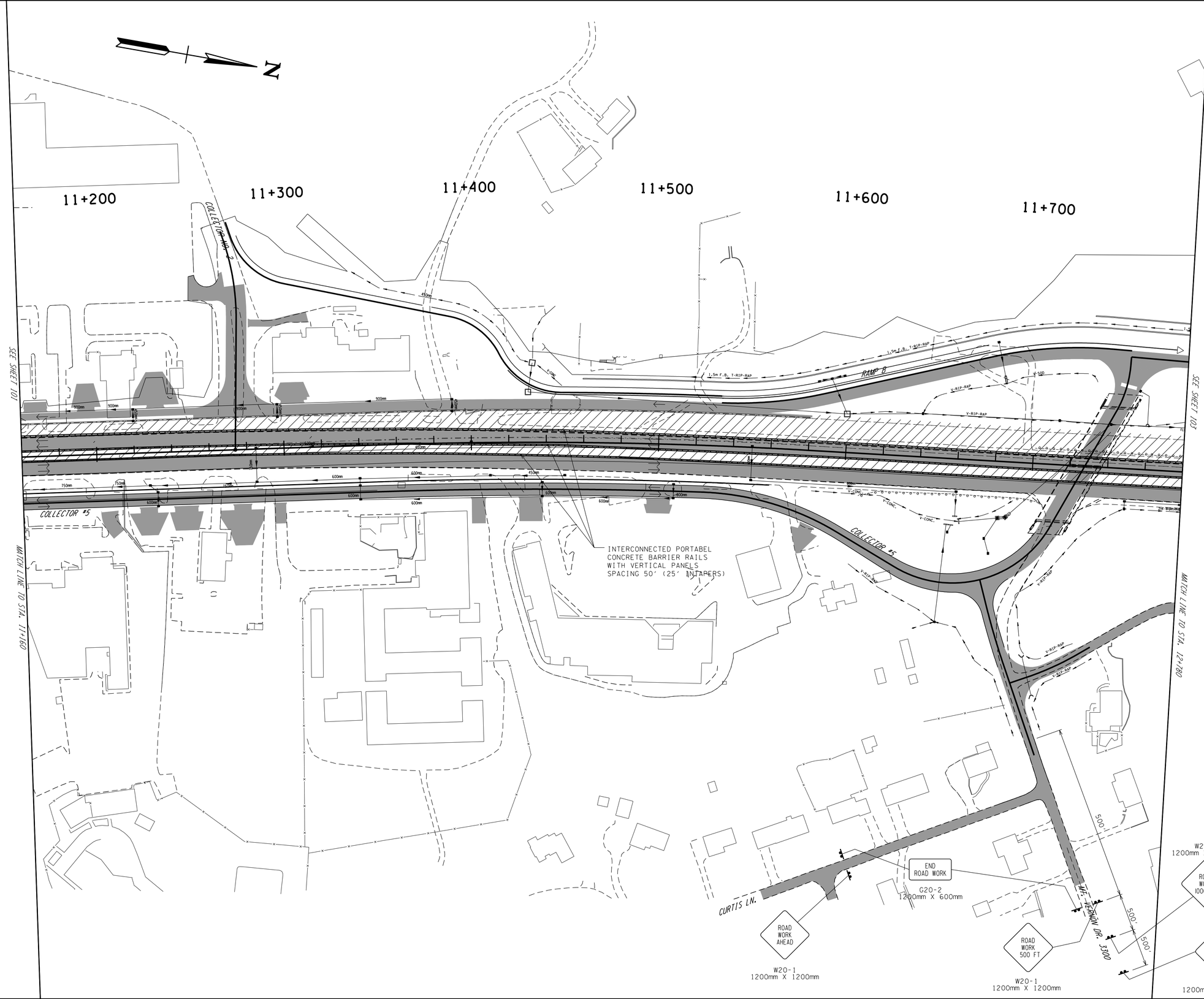
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	102



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TRAFFIC CONTROL PLAN PHASE 3

STA 11+160 TO STA. 11+780

SCALE: 1:

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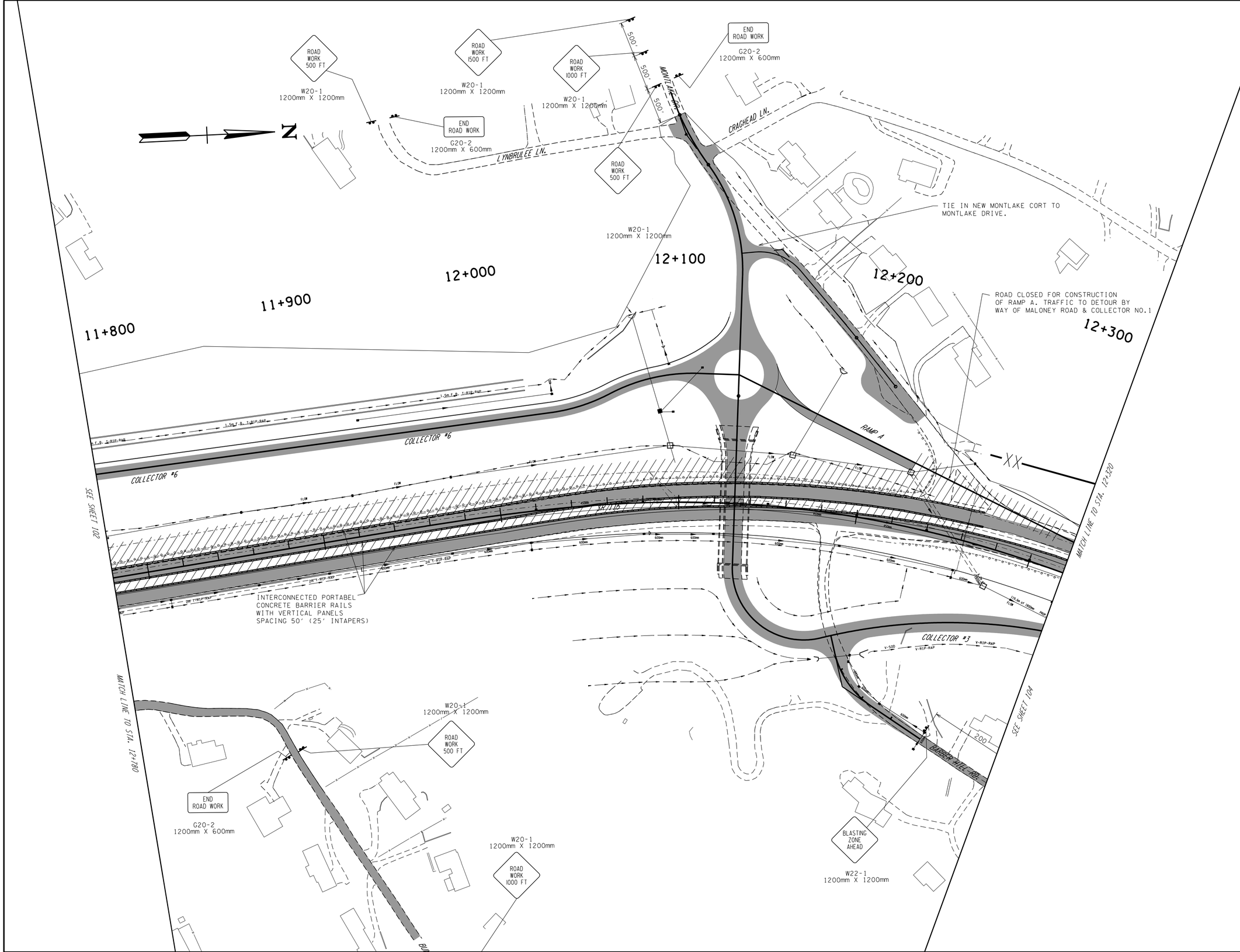
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	103



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TRAFFIC CONTROL PLAN PHASE 3

STA. 11+780 TO STA. 12+320

SCALE: 1:1000

9/30/2015
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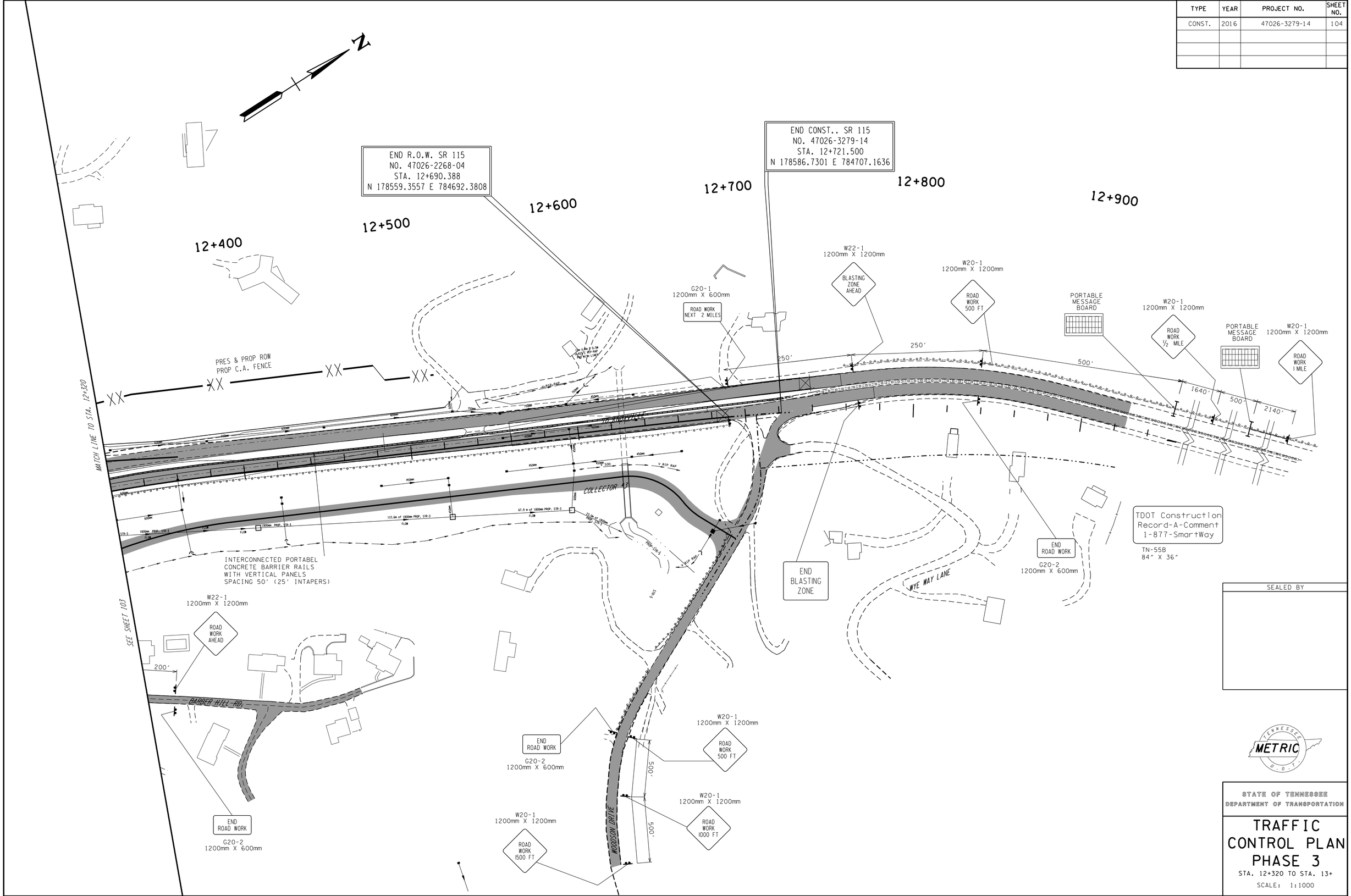
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	104



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TRAFFIC CONTROL PLAN PHASE 3

STA. 12+320 TO STA. 13+

SCALE: 1:1000

9/30/2015
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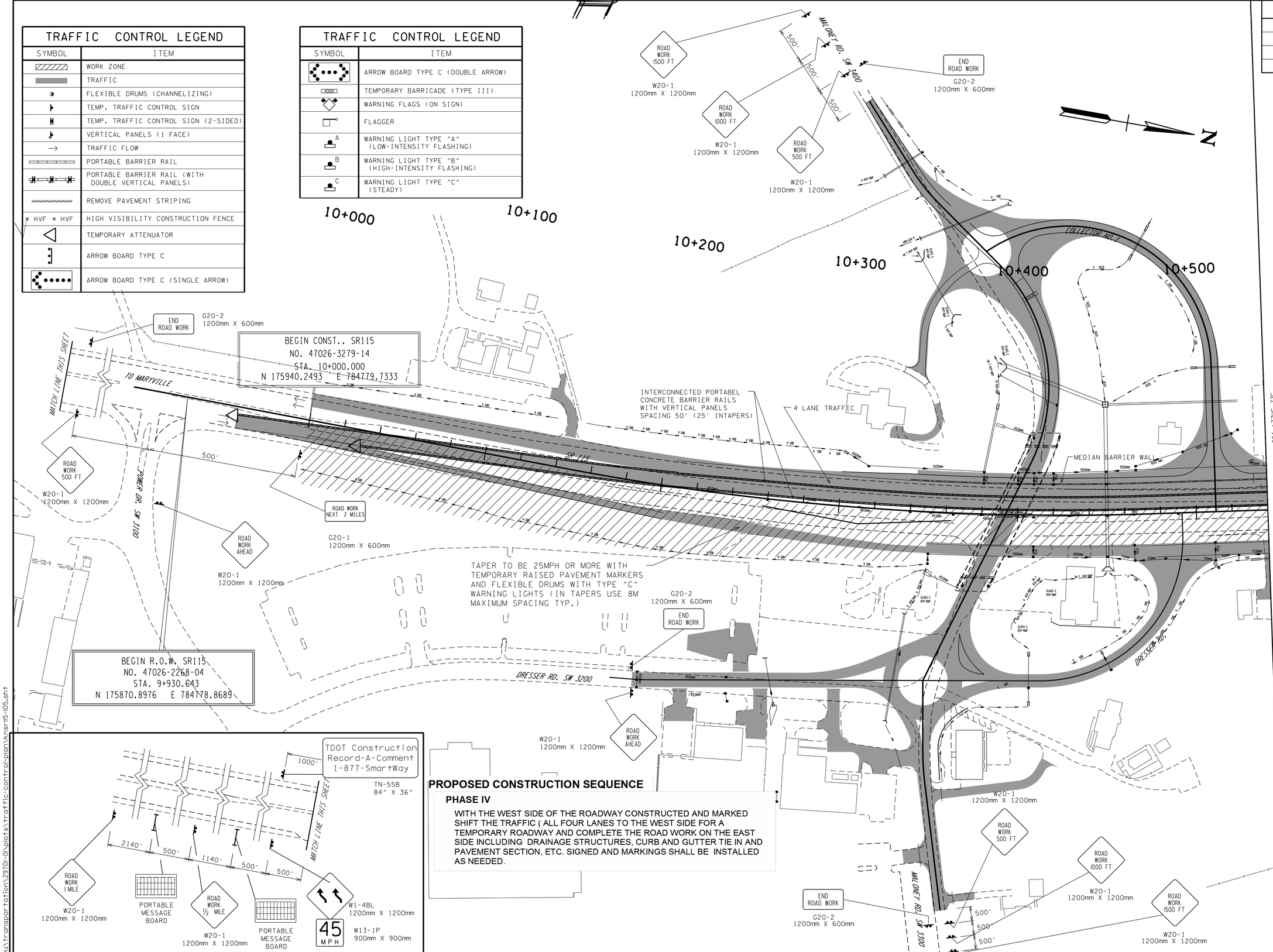
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	105

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	TRAFFIC
	FLEXIBLE DRUMS (CHANNELIZING)
	TEMP. TRAFFIC CONTROL SIGN
	TEMP. TRAFFIC CONTROL SIGN (2-SIDED)
	VERTICAL PANELS (1 FACE)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	REMOVE PAVEMENT STRIPING
* HVF * HVF	HIGH VISIBILITY CONSTRUCTION FENCE
	TEMPORARY ATTENUATOR
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	ARROW BOARD TYPE C (DOUBLE ARROW)
	TEMPORARY BARRICADE (TYPE III)
	WARNING FLAGS (ON SIGN)
	FLAGGER
A	WARNING LIGHT TYPE "A" (LOW-INTENSITY FLASHING)
B	WARNING LIGHT TYPE "B" (HIGH-INTENSITY FLASHING)
C	WARNING LIGHT TYPE "C" (STEADY)



PROPOSED CONSTRUCTION SEQUENCE

PHASE IV

WITH THE WEST SIDE OF THE ROADWAY CONSTRUCTED AND MARKED SHIFT THE TRAFFIC (ALL FOUR LANES TO THE WEST SIDE FOR A TEMPORARY ROADWAY AND COMPLETE THE ROAD WORK ON THE EAST SIDE INCLUDING DRAINAGE STRUCTURES, CURB AND GUTTER TIE IN AND PAVEMENT SECTION, ETC. SIGNED AND MARKINGS SHALL BE INSTALLED AS NEEDED.

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TRAFFIC CONTROL PLAN PHASE 4

STA. 10+000 TO STA.10+540

SCALE: 1:1000

9/30/2015
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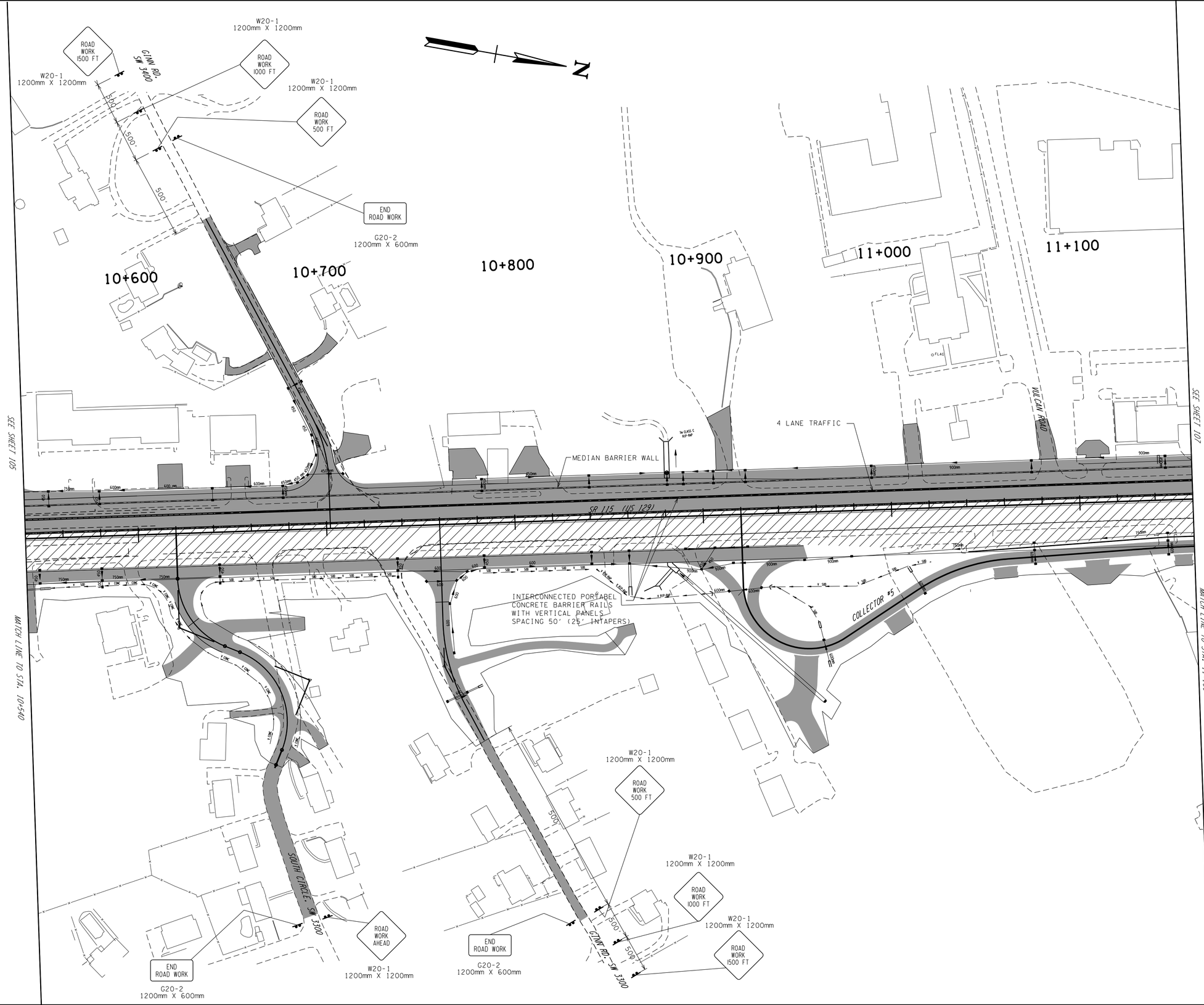
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	106



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TRAFFIC CONTROL PLAN PHASE 4

STA10+540 TO STA.11+160

SCALE: 1:

9/30/2015
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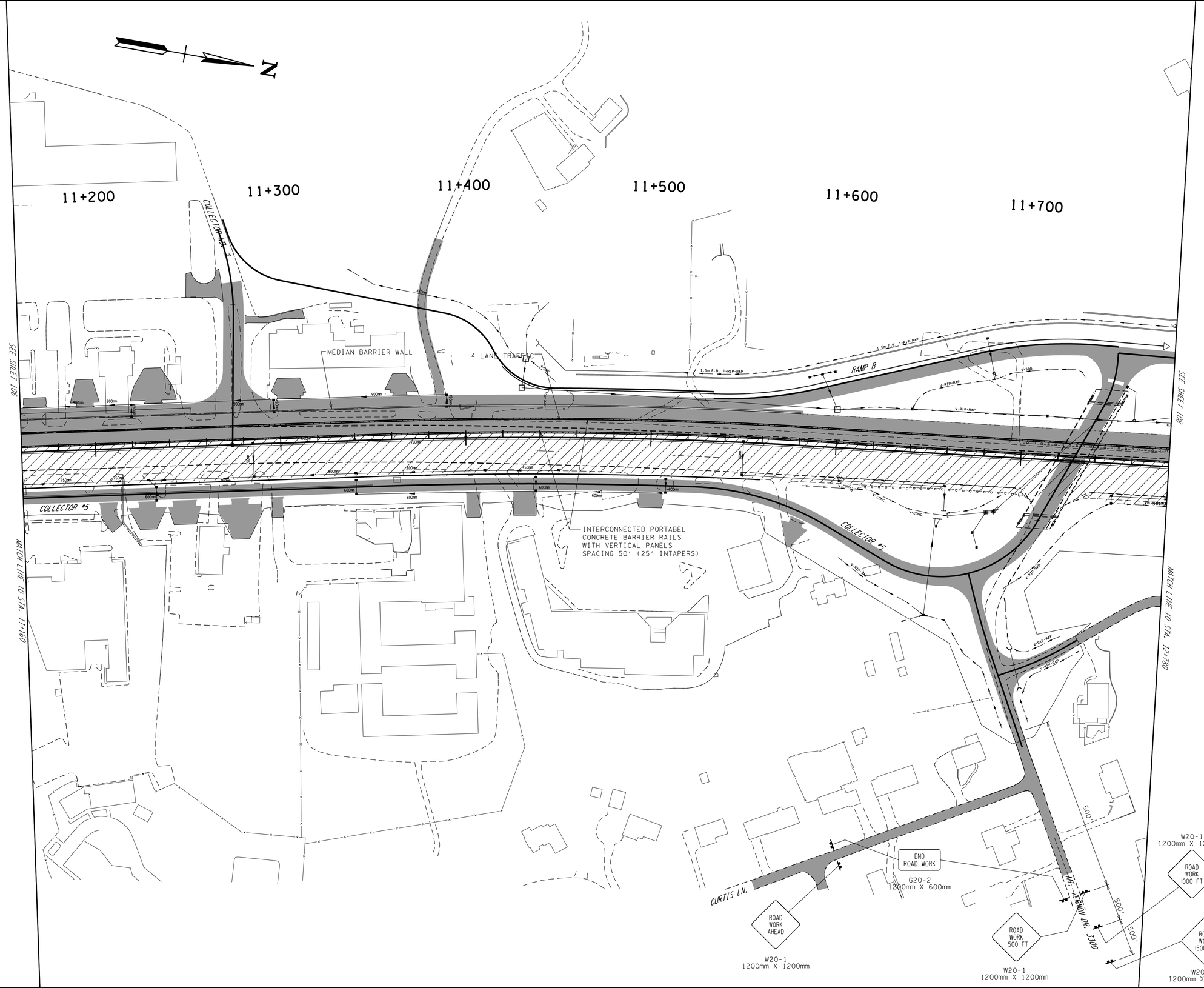
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	107



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TRAFFIC CONTROL PLAN PHASE 4

STA 11+160 TO STA. 11+780

SCALE: 1:

9/30/2015
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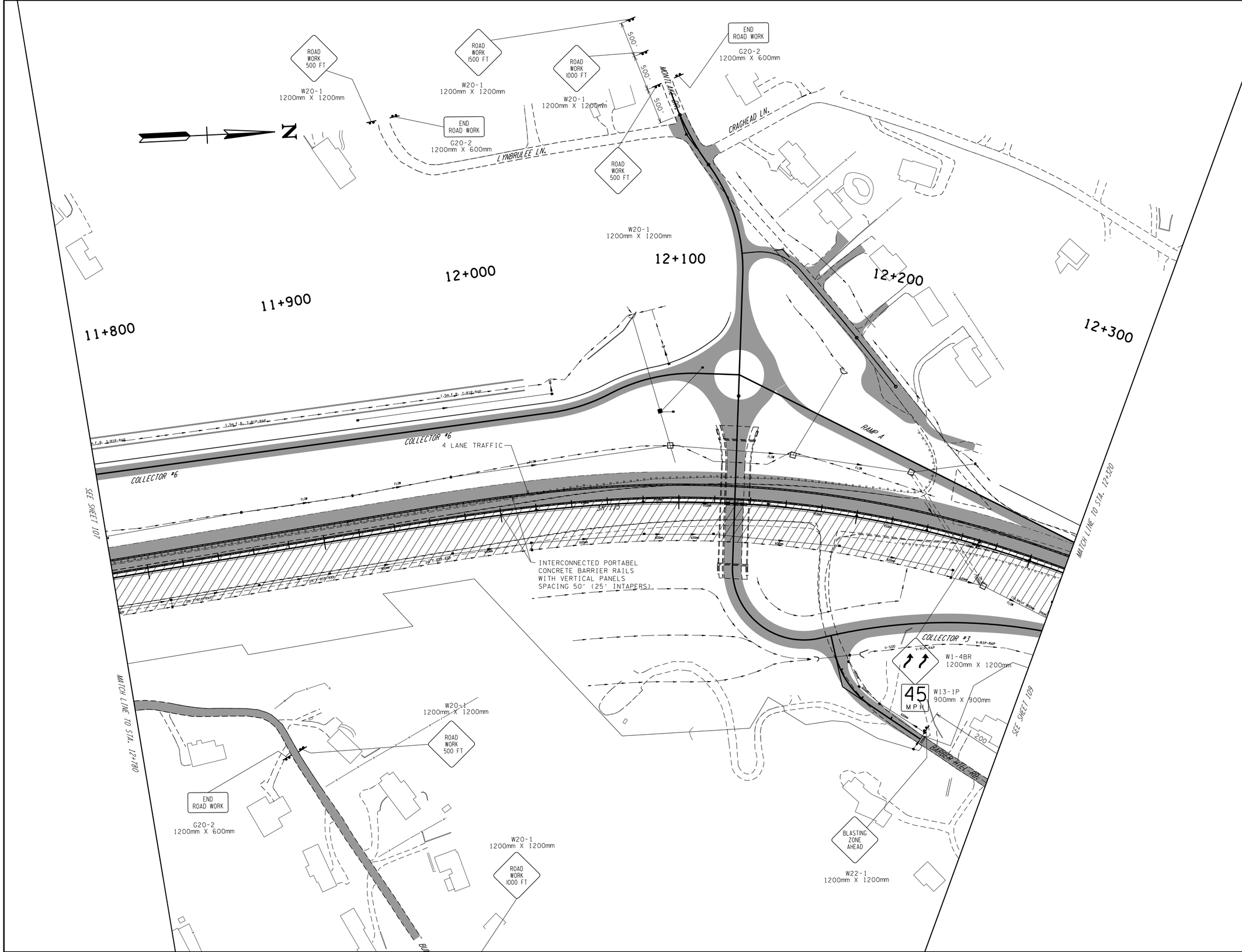
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	108



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 4

STA. 11+780 TO STA. 12+320

SCALE: 1:1000

9/30/2015
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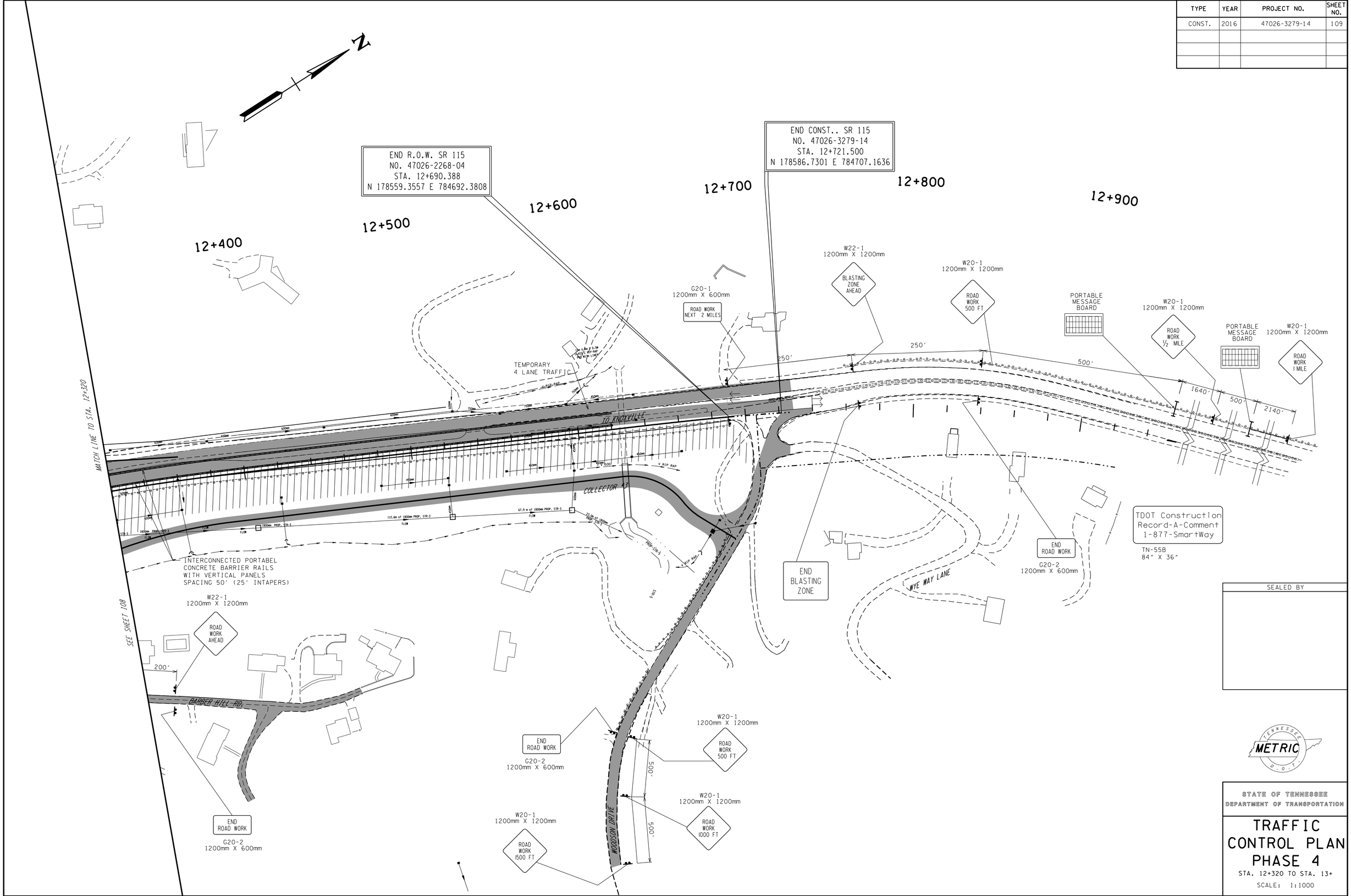
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	109



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TRAFFIC CONTROL PLAN PHASE 4

STA. 12+320 TO STA. 13+

SCALE: 1:1000

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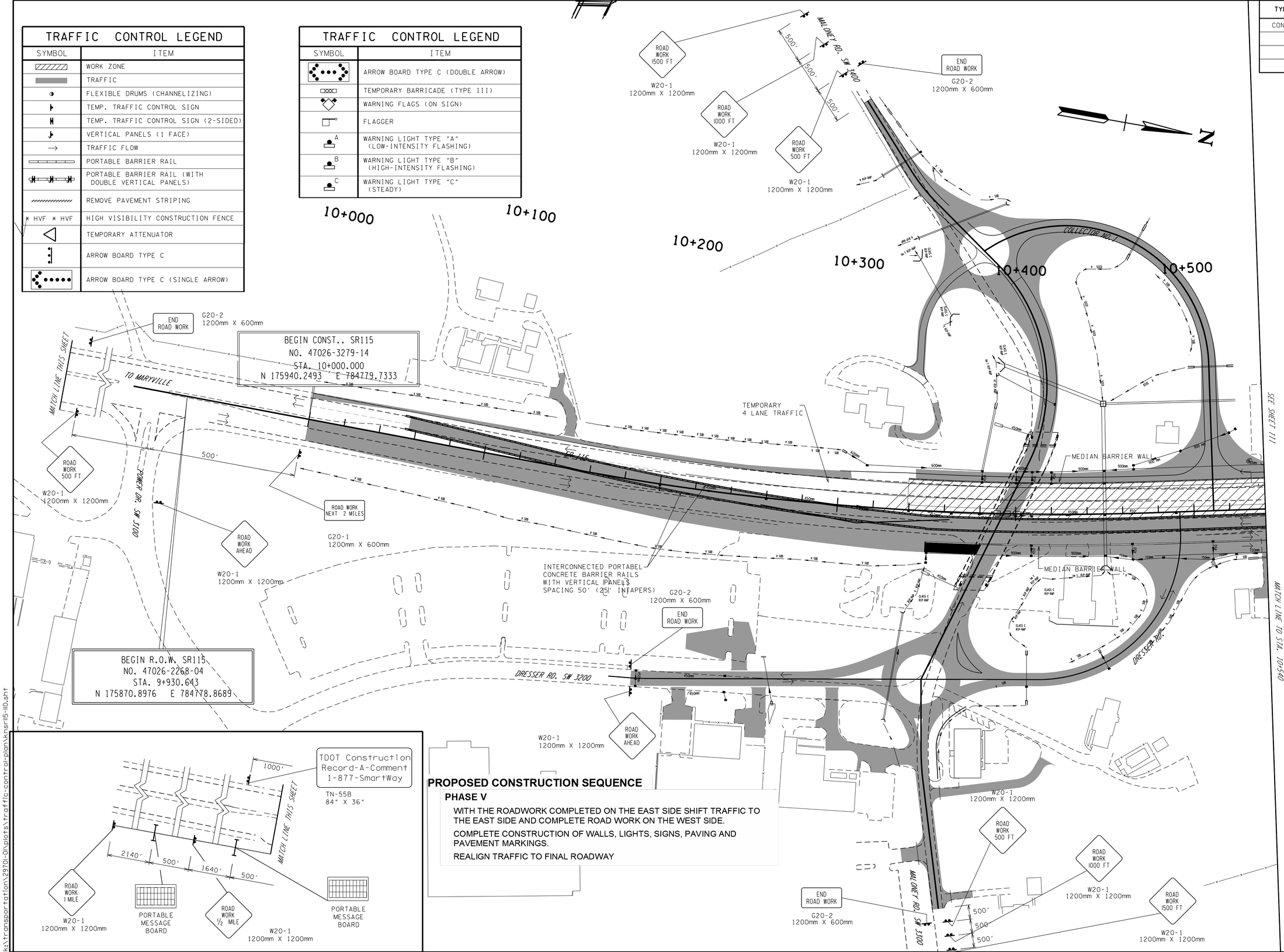
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	110

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	TRAFFIC
	FLEXIBLE DRUMS (CHANNELIZING)
	TEMP. TRAFFIC CONTROL SIGN
	TEMP. TRAFFIC CONTROL SIGN (2-SIDED)
	VERTICAL PANELS (1 FACE)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	REMOVE PAVEMENT STRIPING
HVF HVF	HIGH VISIBILITY CONSTRUCTION FENCE
	TEMPORARY ATTENUATOR
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	ARROW BOARD TYPE C (DOUBLE ARROW)
	TEMPORARY BARRICADE (TYPE III)
	WARNING FLAGS (ON SIGN)
	FLAGGER
A	WARNING LIGHT TYPE "A" (LOW-INTENSITY FLASHING)
B	WARNING LIGHT TYPE "B" (HIGH-INTENSITY FLASHING)
C	WARNING LIGHT TYPE "C" (STEADY)



PROPOSED CONSTRUCTION SEQUENCE

PHASE V

WITH THE ROADWORK COMPLETED ON THE EAST SIDE SHIFT TRAFFIC TO THE EAST SIDE AND COMPLETE ROAD WORK ON THE WEST SIDE.

COMPLETE CONSTRUCTION OF WALLS, LIGHTS, SIGNS, PAVING AND PAVEMENT MARKINGS.

REALIGN TRAFFIC TO FINAL ROADWAY

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TRAFFIC CONTROL PLAN PHASE 5

STA. 10+000 TO STA.10+540

SCALE: 1:1000

9/30/2015
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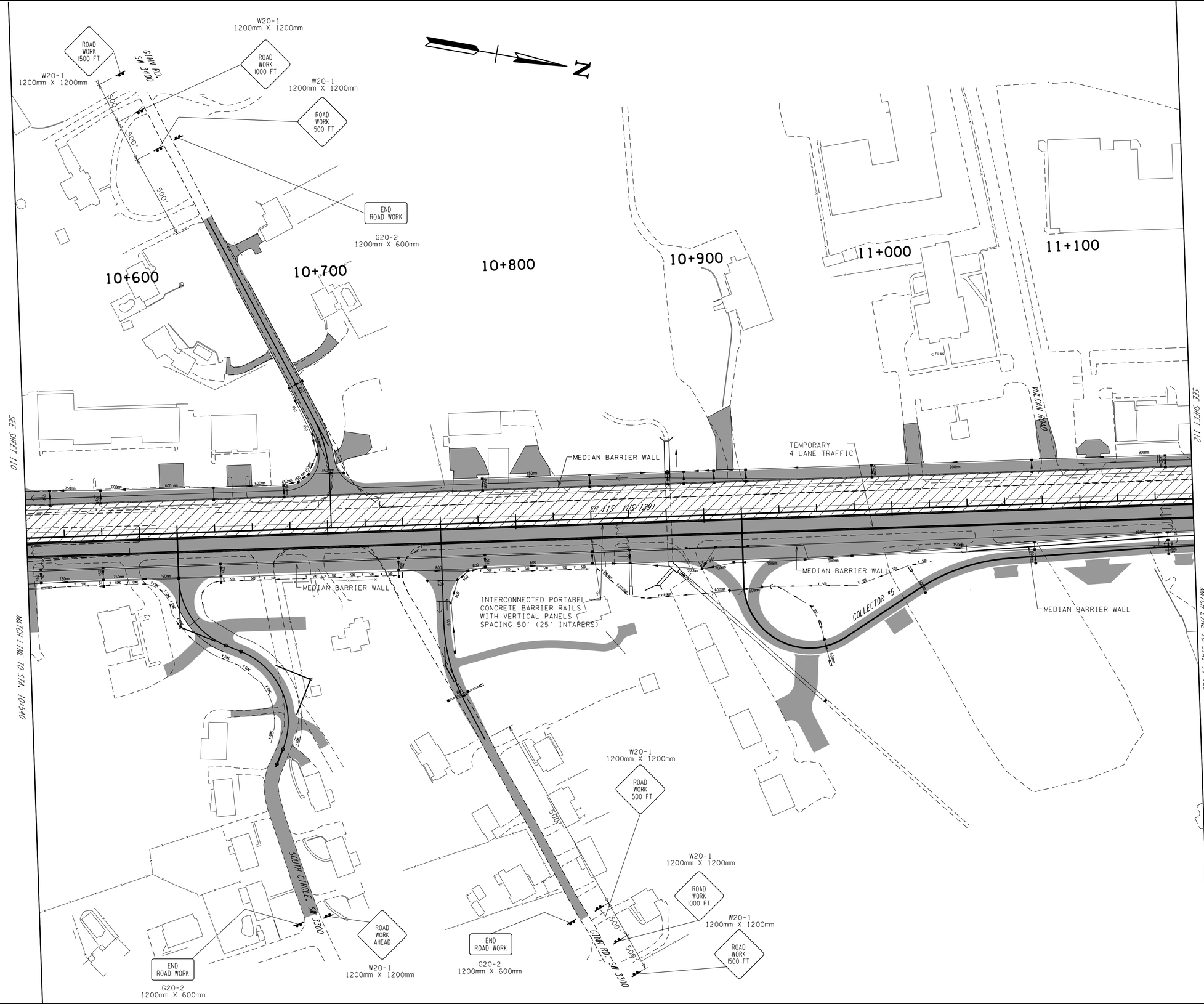
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	111



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA10+540 TO STA.11+160

SCALE: 1:

9/30/2015
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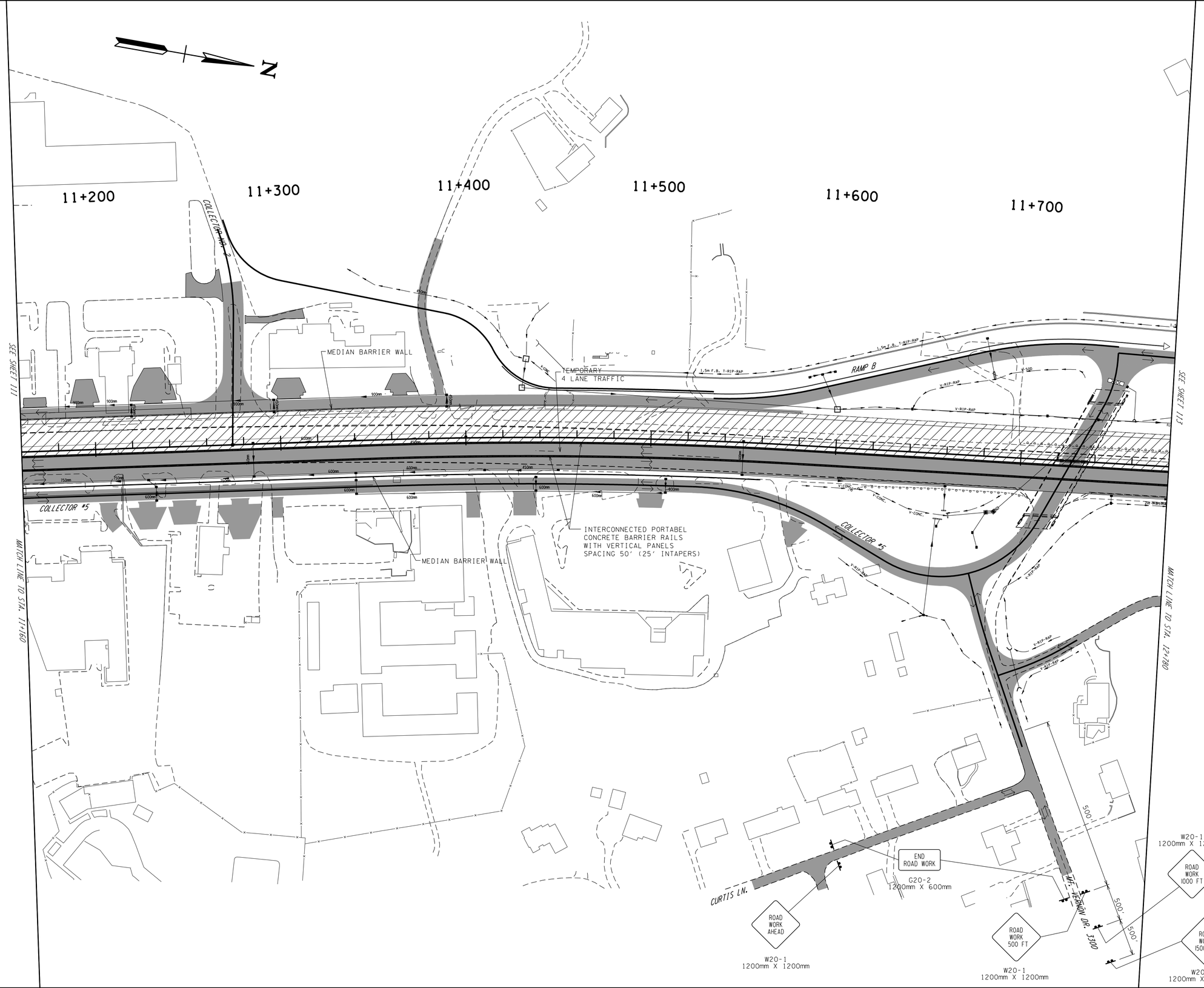
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	112



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TRAFFIC CONTROL PLAN PHASE 5

STA 11+160 TO STA. 11+780

SCALE: 1:

9/30/2015
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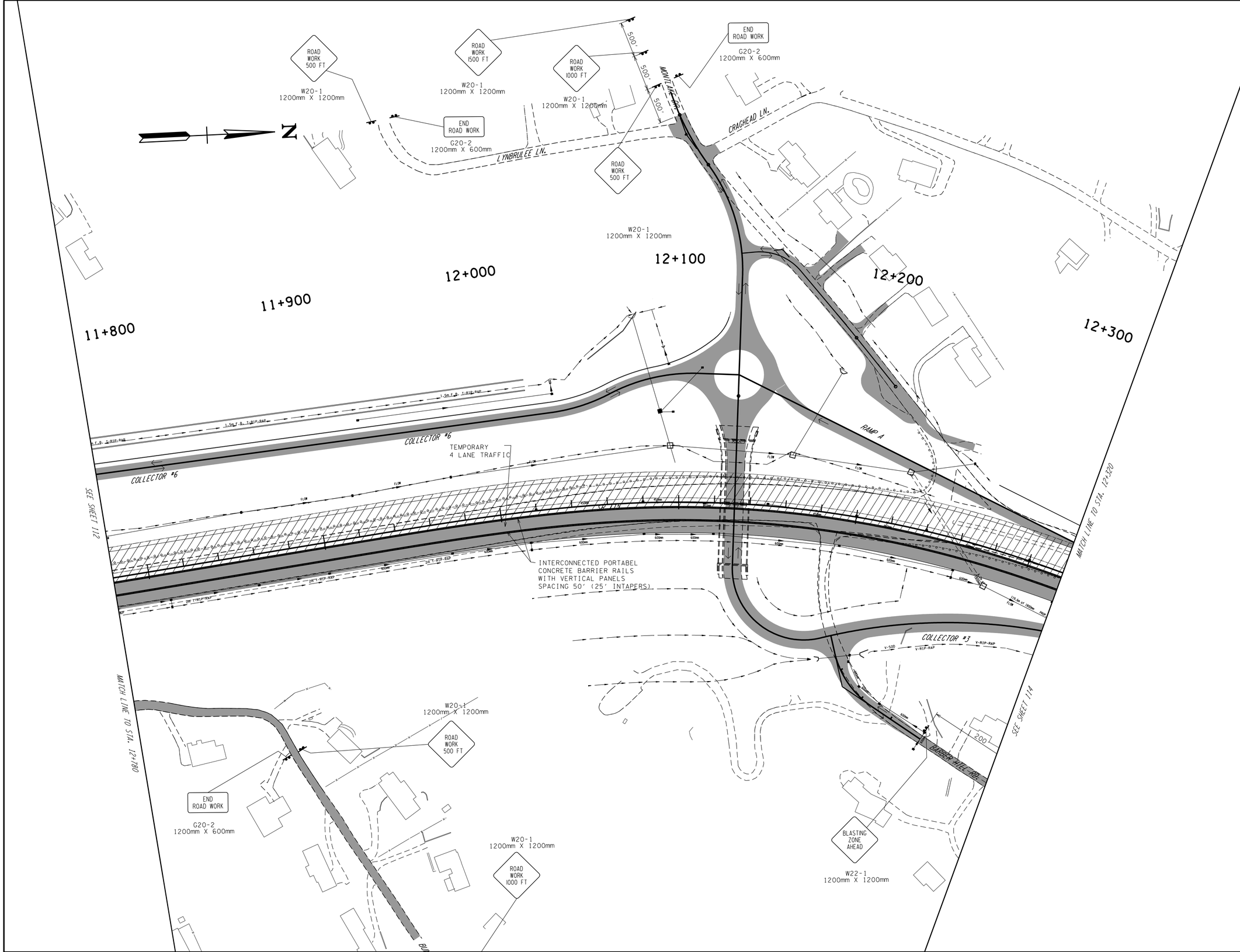
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	113



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 5

STA. 11+780 TO STA. 12+320

SCALE: 1:1000

9/30/2015
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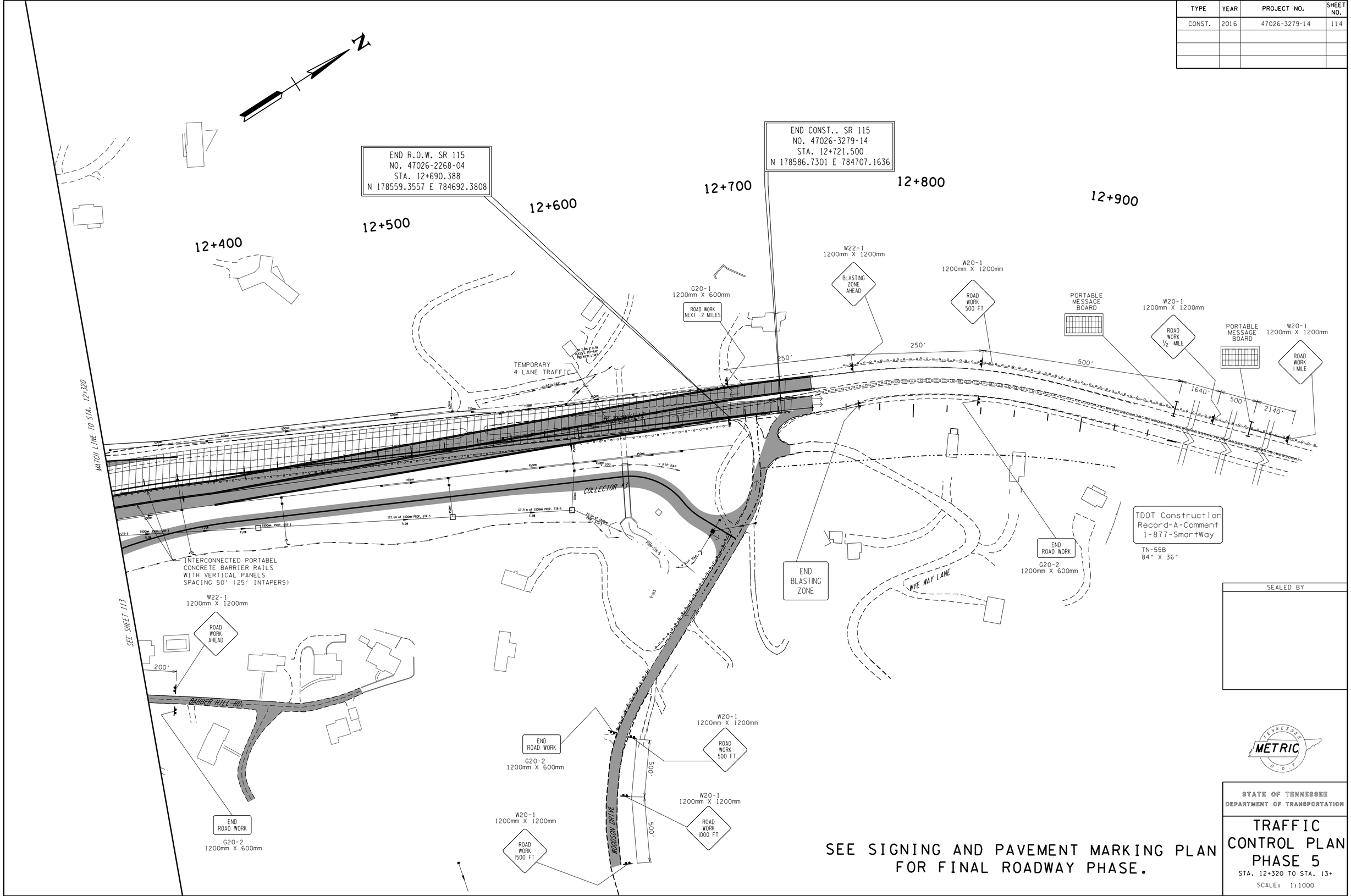
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	114



SEE SIGNING AND PAVEMENT MARKING PLAN
FOR FINAL ROADWAY PHASE.

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TRAFFIC CONTROL PLAN PHASE 5

STA. 12+320 TO STA. 13+

SCALE: 1:1000

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	115

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 20 mm AND NOT EXCEEDING 50 mm:

a. WARNING SIGNS, UNEVEN PAVEMENT (W8-11) AND/OR SHOULDER DROP-OFF (W8-9A), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 600 METERS WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 50 mm AND NOT EXCEEDING 150 mm. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) SPEEDS ARE 80 km/h OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 30 METERS.

(2) WHERE POSTED SPEEDS ARE LESS THAN 80 km/h, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN METERS SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES-PER-HOUR OR 15 METERS, WHICHEVER SPACING IS GREATER.

b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 50 mm OR LESS BY THE END OF EACH DAY'S WORK, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN PAVEMENT AND/OR LOW SHOULDER) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 600 METERS WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THRU TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 90 mm, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN PAVEMENT AND/OR LOW SHOULDER) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 600 METERS WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING THREE KILOMETERS IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCE IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 150 mm BUT NOT EXCEEDING 450 mm, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 80 km/h OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 30 METERS.

(2) WHERE POSTED SPEEDS ARE LESS THAN 80 km/h, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN METERS SHALL NOT EXCEED TWICE THE POSTED SPEED IN KILOMETERS PER HOUR OR 15 METERS, WHICHEVER SPACING IS GREATER.

IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 150 mm OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO 150 mm OR LESS.

d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN (W8-9A). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 600 METERS WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1.5 KILOMETERS IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY

4. DIFFERENCE IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 450 mm.

SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS SITUATION, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1.5 KILOMETERS IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 9 METERS OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 2.4 METERS OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 20 mm AND NOT EXCEEDING 50 mm.

WARNING SIGNS (UNEVEN PAVEMENT AND/OR LOW SHOULDER) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 600 METERS WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 2.4 METERS OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 50 mm AND NOT EXCEEDING 150 mm:

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 80 km/h OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 30 METERS.

(2) WHERE POSTED SPEEDS ARE LESS THAN 80 km/h THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN METERS SHALL NOT EXCEED TWICE THE POSTED SPEED IN KILOMETERS PER HOUR OR 15 METERS, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 2.4 METERS OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 150 mm:

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 80 km/h OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 30 METERS.

(2) WHERE POSTED SPEEDS ARE LESS THAN 80 km/h THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN METERS SHALL NOT EXCEED TWICE THE POSTED SPEED IN KILOMETERS PER HOUR OR 15 METERS, WHICHEVER SPACING IS GREATER.

b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 2.4 METERS OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 2.4 METERS FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 9 METERS FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. WHERE POSTED SPEEDS ARE 80 km/h OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 30 METERS.

2. WHERE POSTED SPEEDS ARE LESS THAN 80 km/h, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN METERS SHALL NOT EXCEED TWICE THE POSTED SPEED IN KILOMETERS PER HOUR OR 30 METERS, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

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DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	118

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SIGNING QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	713M09.01	STEEL OVERHEAD SIGN STRUCTURE (SPAN 22.0m)	EACH	1
	713M09.02	STEEL OVERHEAD SIGN STRUCTURE (SPAN 17.7m)	EACH	1
	713M09.03	STEEL OVERHEAD SIGN STRUCTURE (SPAN 19.8m)	EACH	1
	713M09.04	STEEL OVERHEAD SIGN STRUCTURE (SPAN 13.9m)	EACH	1
	713M09.05	STEEL OVERHEAD SIGN STRUCTURE (SPAN 17.5m)	EACH	1
	713M09.06	STEEL OVERHEAD SIGN STRUCTURE (SPAN 14.7m)	EACH	1
	713M09.07	STEEL OVERHEAD SIGN STRUCTURE (SPAN 15.9m)	EACH	1
	713M11.01	"U" SECTION STEEL POSTS	kg	372
	713M11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	kg	1767
1	713M11.05	SQUARE TUBE SIGN SUPPORT	kg	250
	713M13.02	FLAT SHEET ALUMINUM SIGNS (2032mm THICK)	m2	49
	713M13.03	FLAT SHEET ALUMINUM SIGNS (2540mm THICK)	m2	80
	713M14	EXTRUDED ALUMINUM PANEL SIGNS	m2	54
	713M17.02	INSTALL AUXILIARY SUPPORT FOR EXIT NUMBER PANEL	EACH	8
	713M30.09	BARRIER MOUNTED SIGN SUPPORT	EACH	13

1. INCLUDES 189 kg OF 3" X 3" SQUARE TUBE AND 61 kg OF 4" X 4" SQUARE TUBE.

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SIGNING QUANTITIES

9/30/2015
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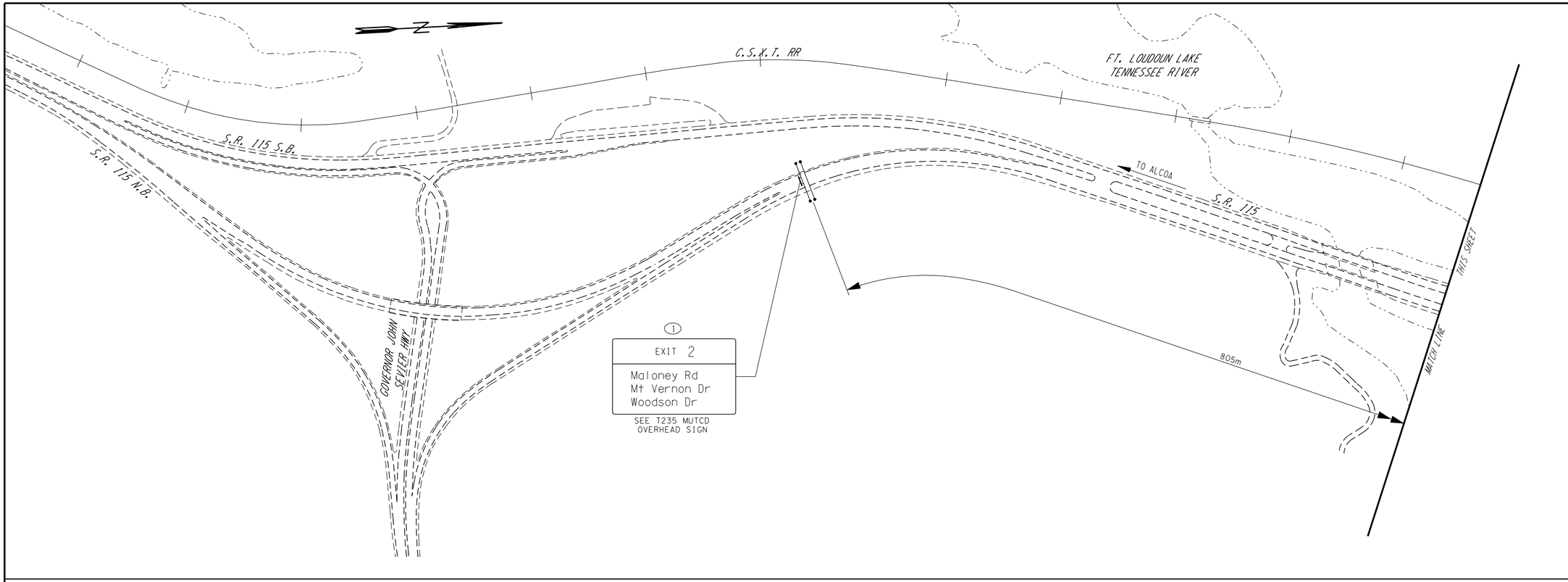
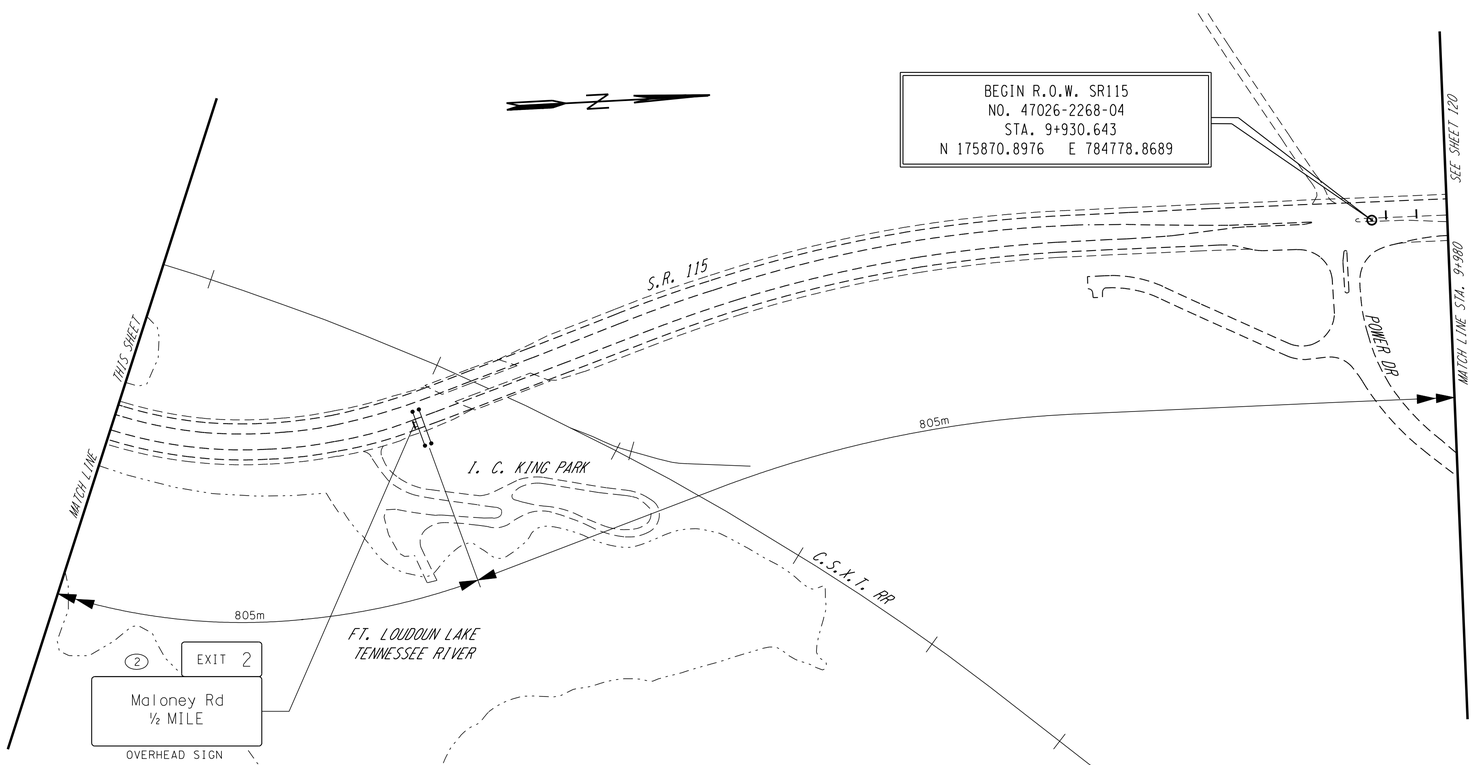
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	119





COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

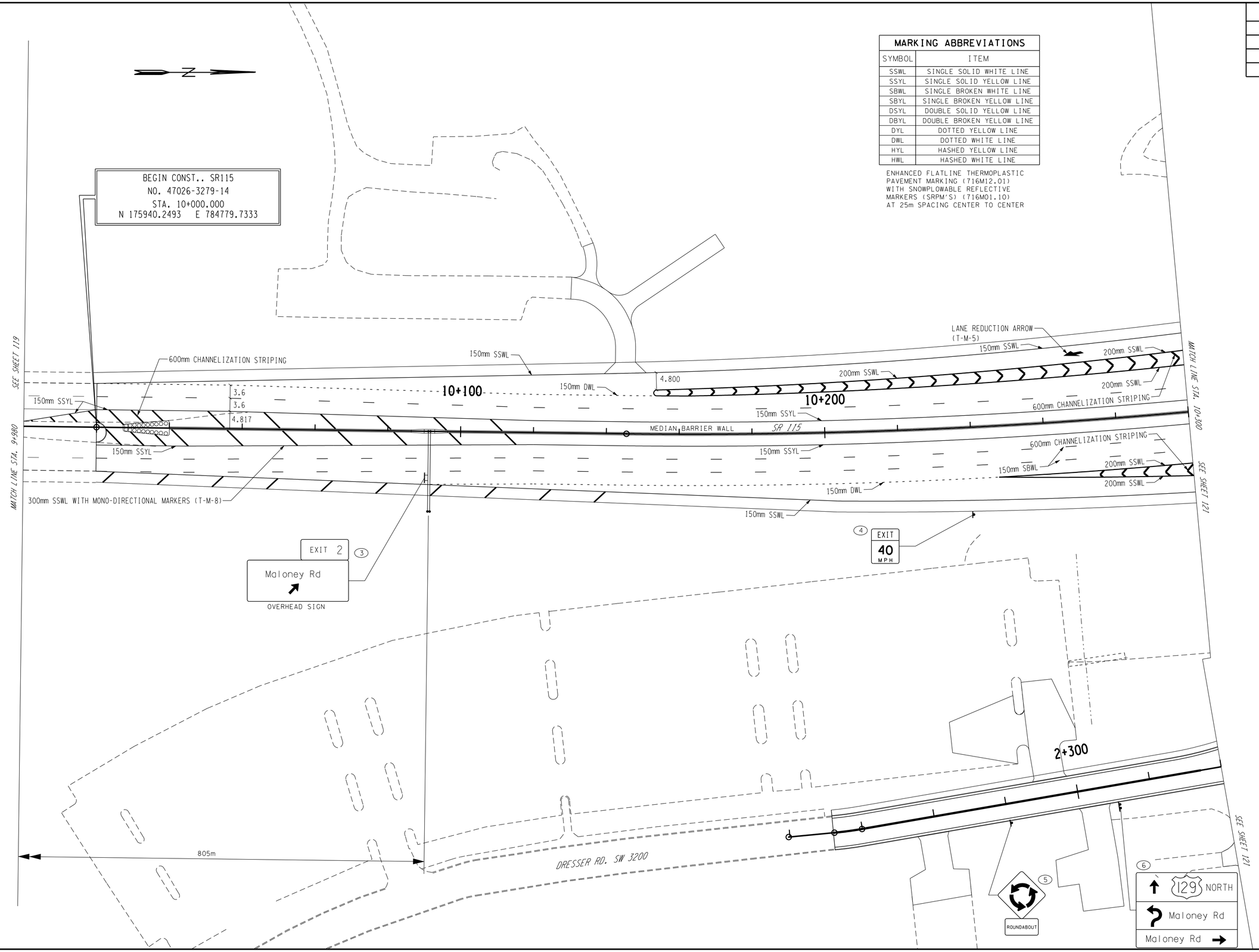
SCALE: 1:2000

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	120

MARKING ABBREVIATIONS

SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

ENHANCED FLATLINE THERMOPLASTIC PAVEMENT MARKING (716M12.01) WITH SNOWPLOWABLE REFLECTIVE MARKERS (SRPM'S) (716M01.10) AT 25m SPACING CENTER TO CENTER



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

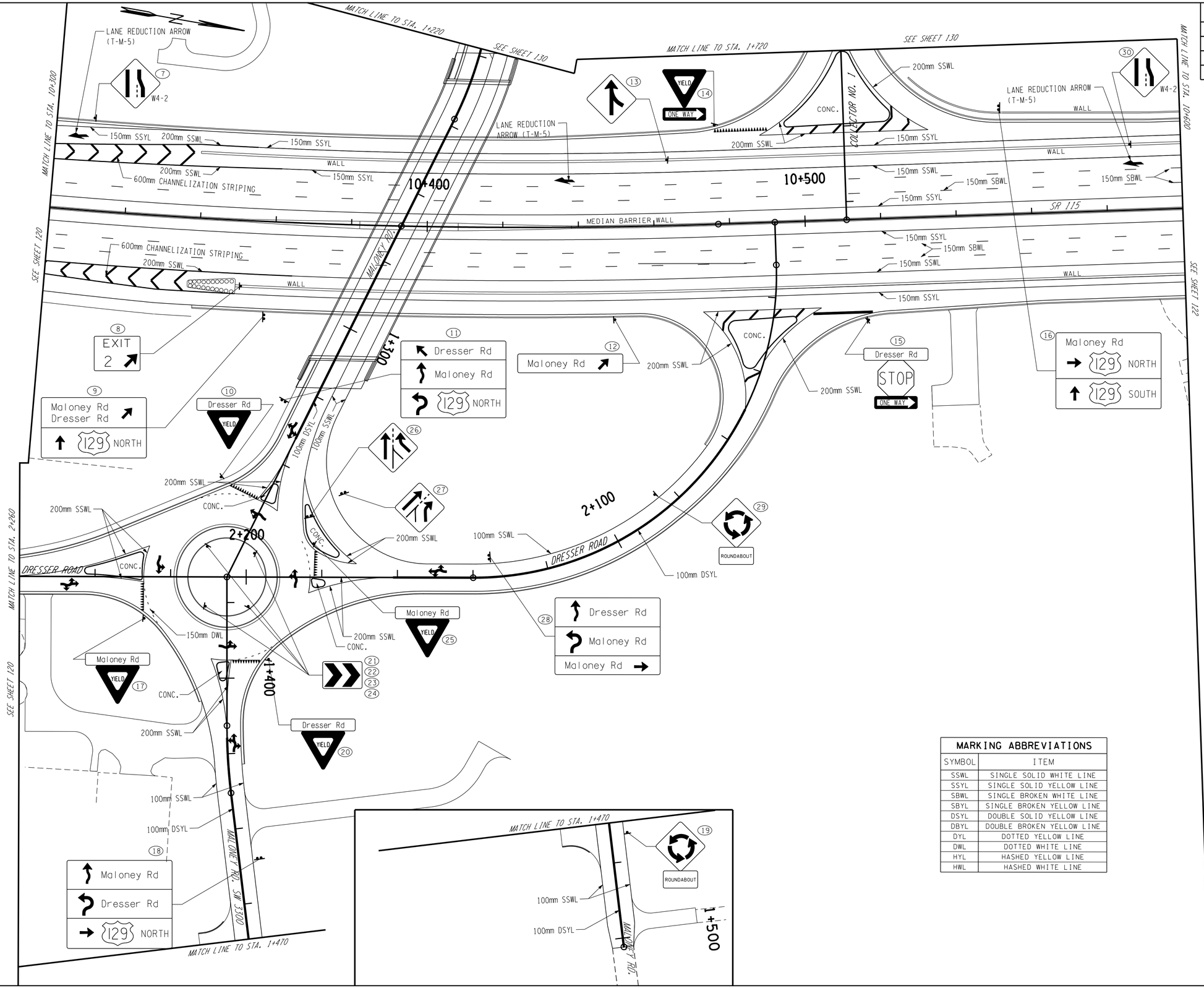
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 10+000 - STA. 10+300
STA. 2+260 - STA. 2+368

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	121



MARKING ABBREVIATIONS	
SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

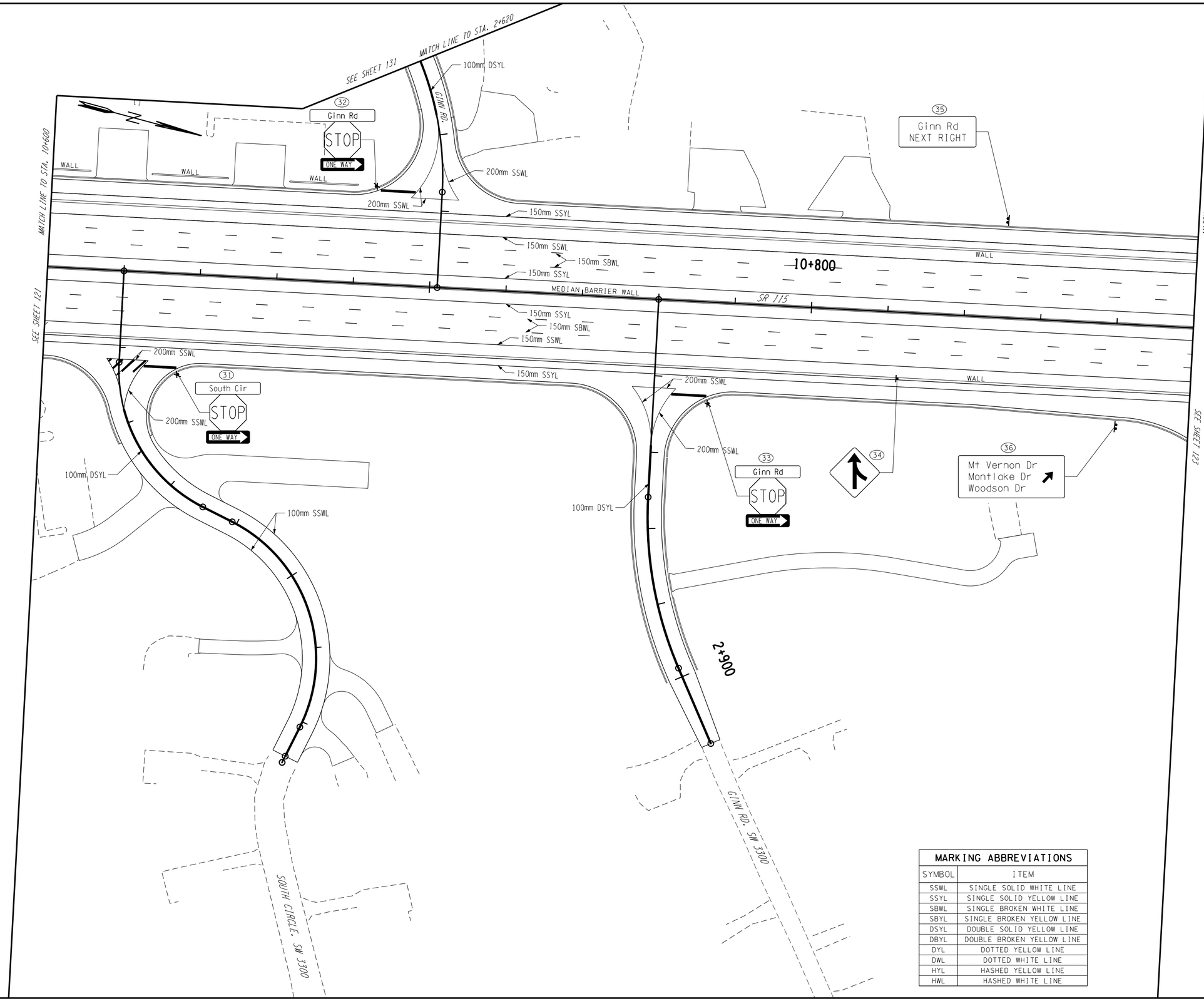
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 10+300 - STA. 10+600
STA. 1+220 - STA. 1+503
STA. 1+720 - STA. 1+764.829
STA.2+000 - STA. 2+260

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	122



MARKING ABBREVIATIONS	
SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

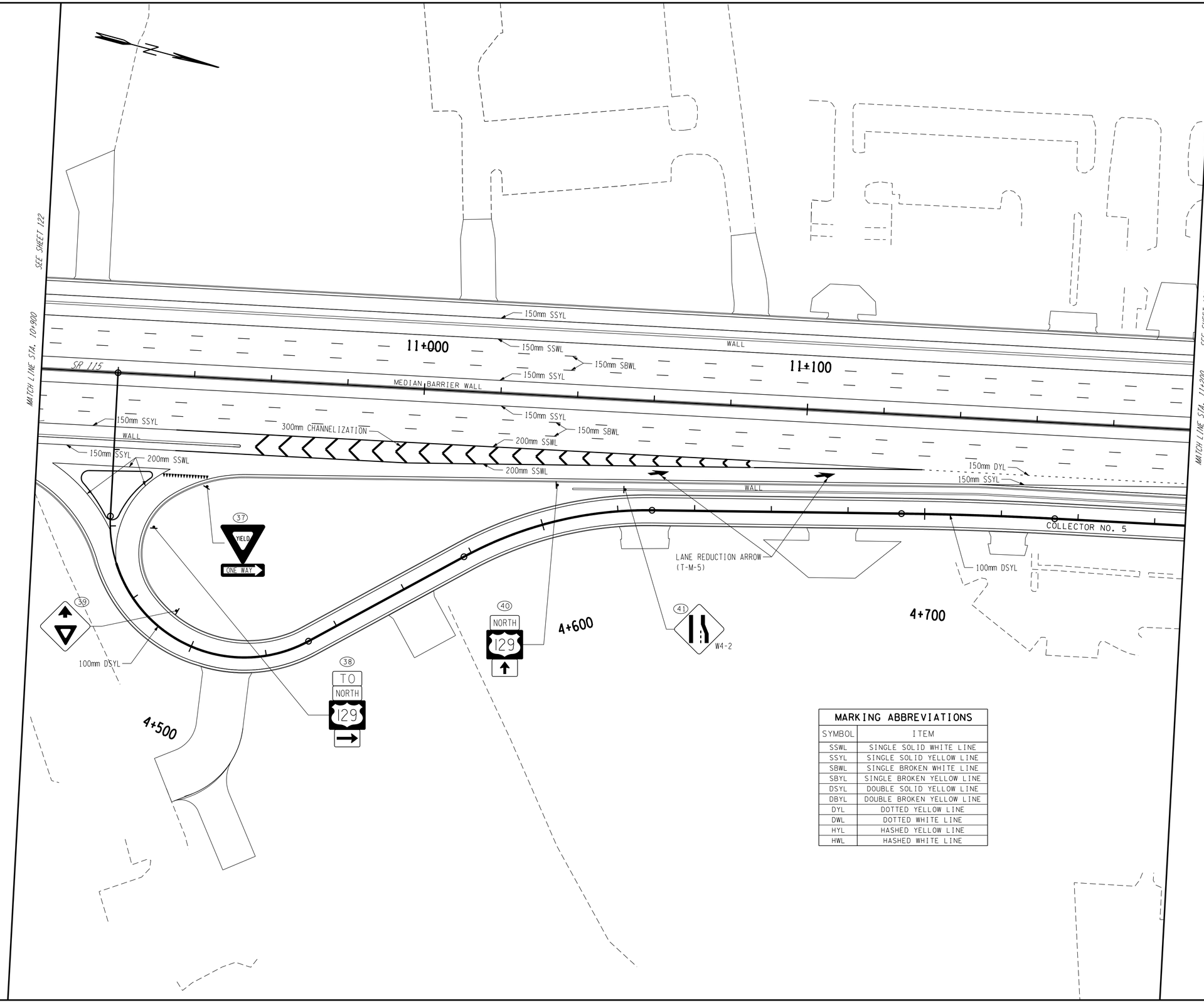
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA.10+600 - STA.10+900
STA.2+620 - STA.2+680, STA.2+800 - STA.2+919, STA.3+000-STA.3+150

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	123



MARKING ABBREVIATIONS	
SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

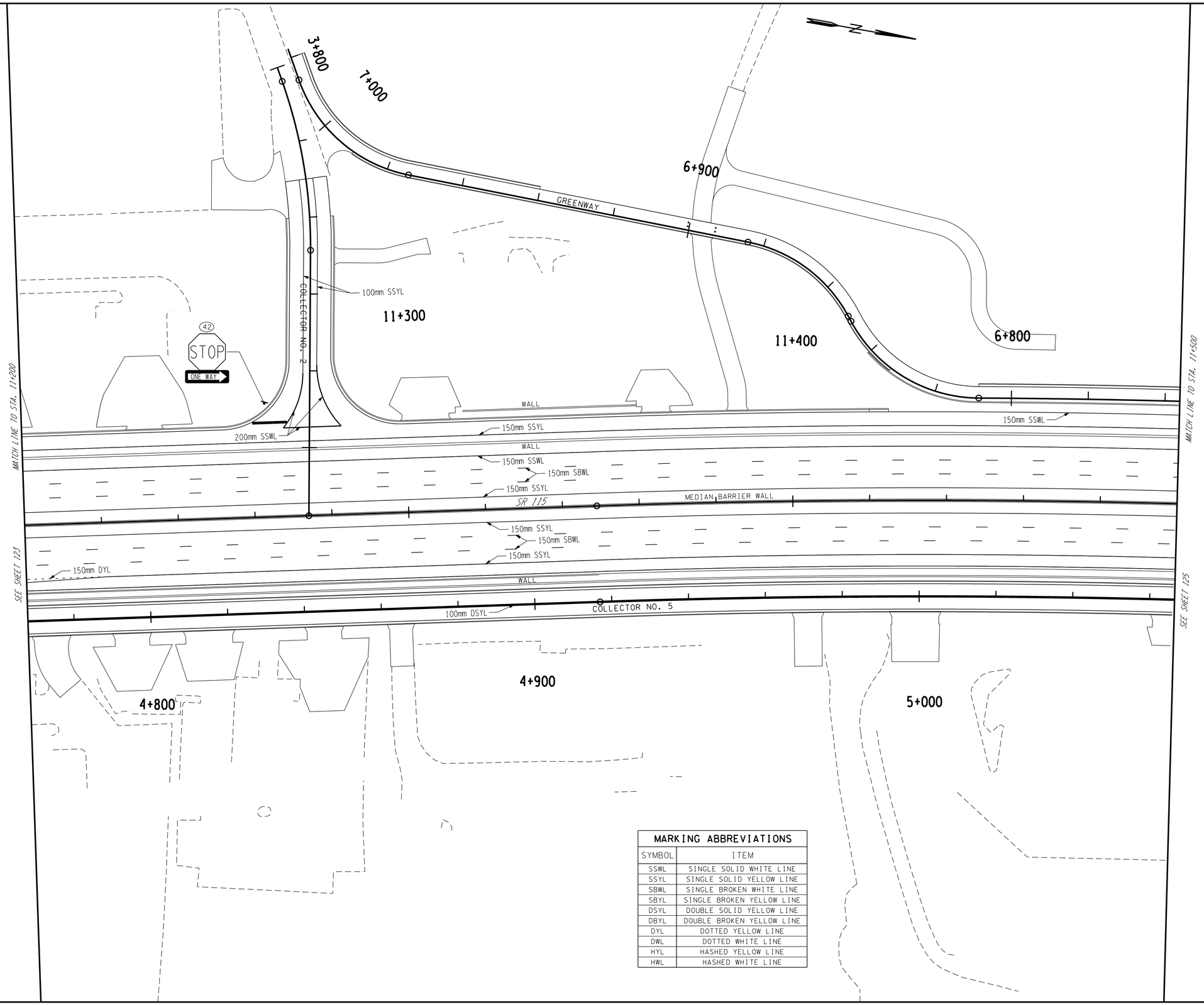
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 10+900 - STA. 11+200
STA. 4+420 - STA. 4+768

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	124



MARKING ABBREVIATIONS	
SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

TENNESSEE D.O.T. METRIC

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

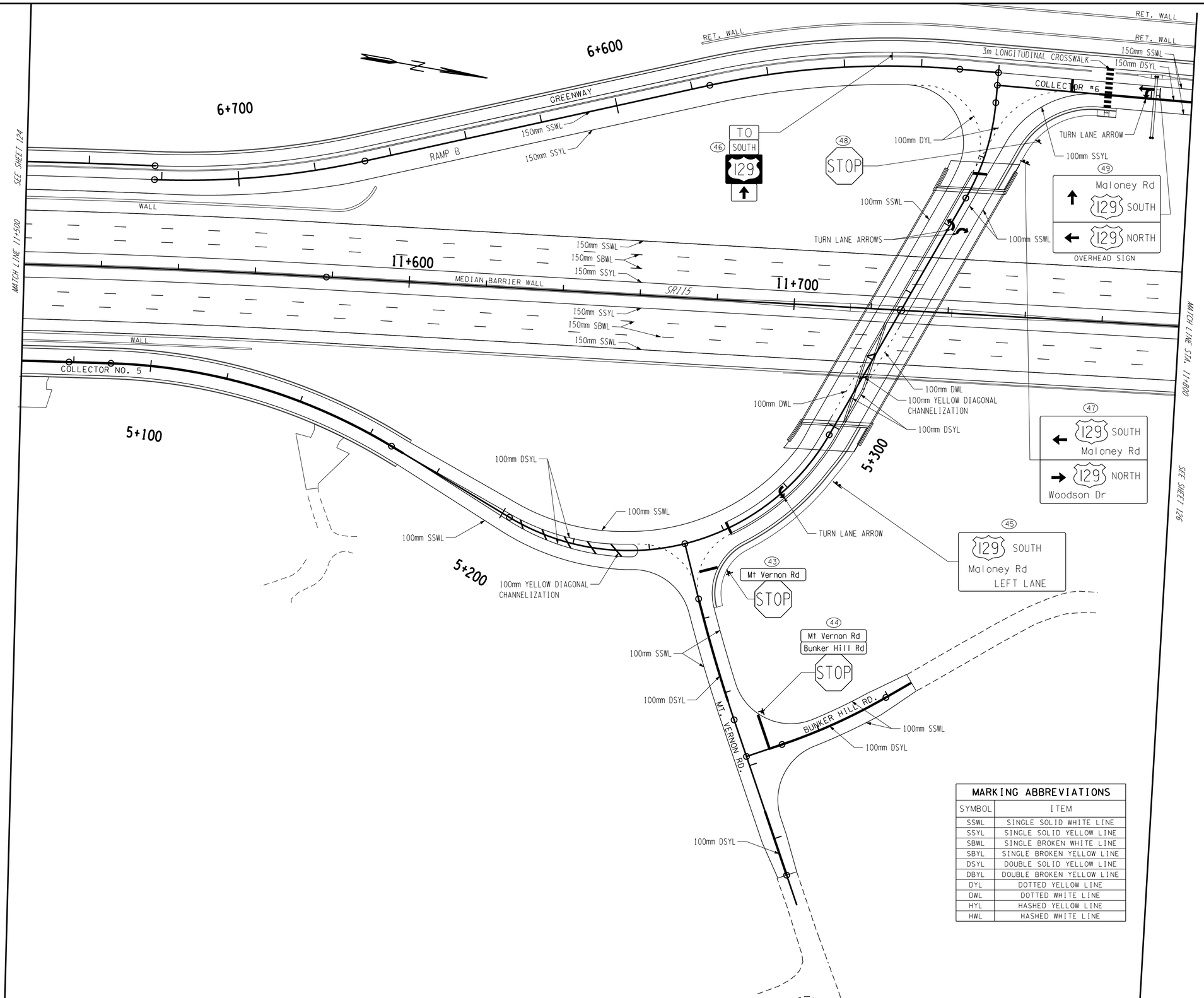
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 11+200 - STA. 11+500
STA. 3+800 - STA. 4+917.725

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	125



MARKING ABBREVIATIONS

SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

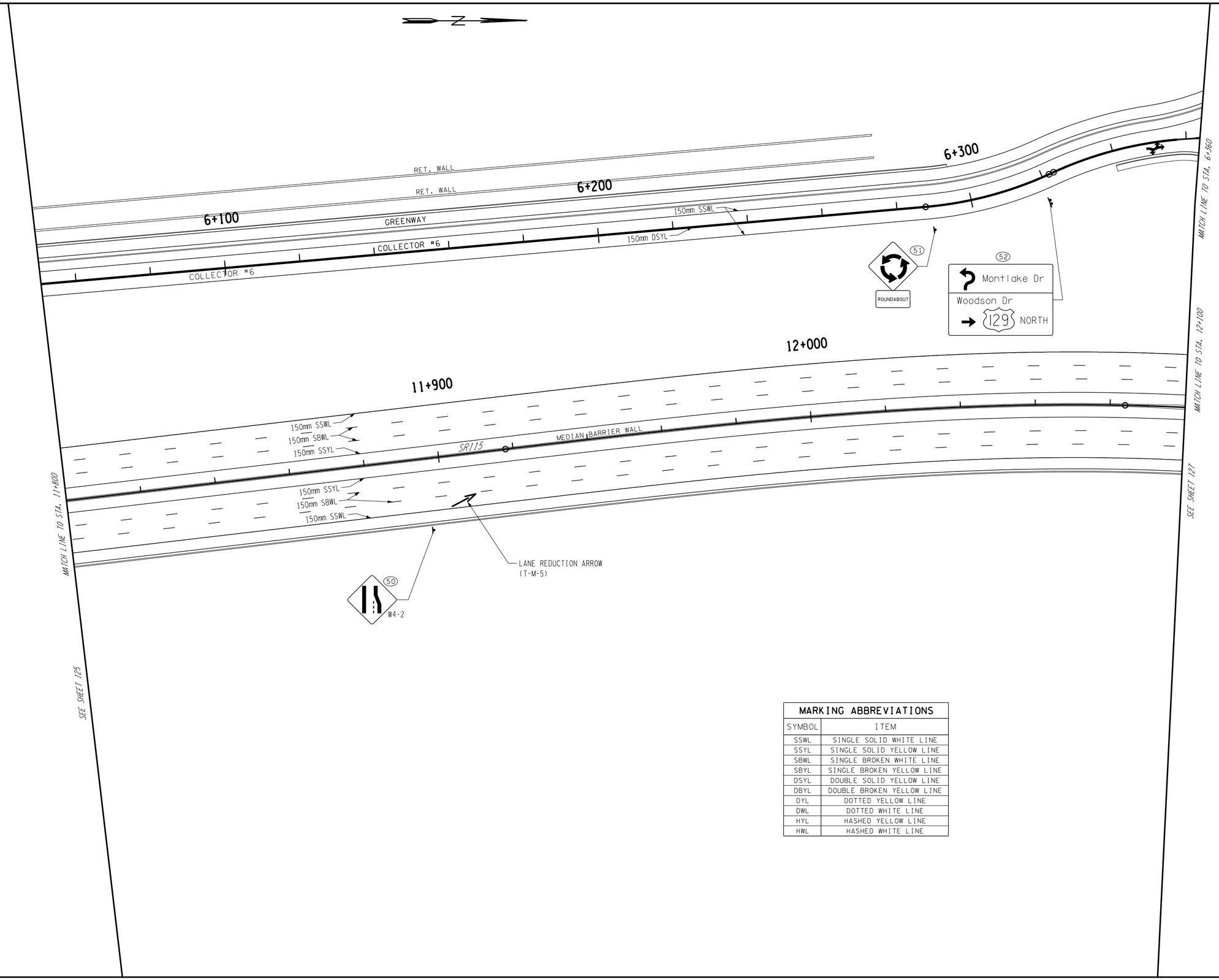
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 11+500 - STA. 11+800, STA. 5+067 - STA. 5+399.092, STA. 6+500 - STA. 6+755 STA. 9+000 - STA. 9+090, STA. 9+300 - STA. 9+347, STA. 6+000 - STA. 6+050

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	126



MARKING ABBREVIATIONS	
SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

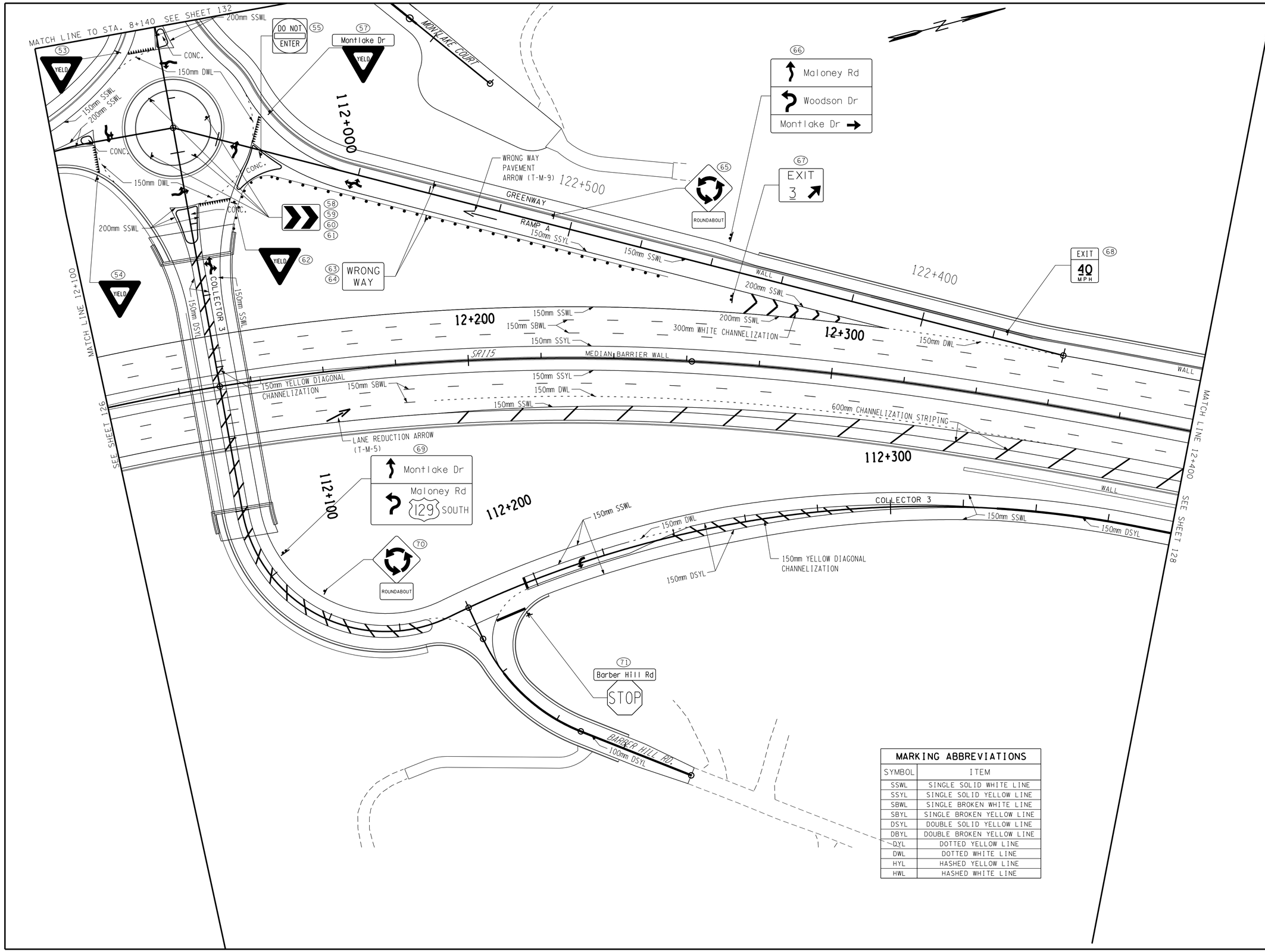
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 11+800 - STA. 12+100
STA. 6+050 - STA. 6+360

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	127



MARKING ABBREVIATIONS

SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

METRIC

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

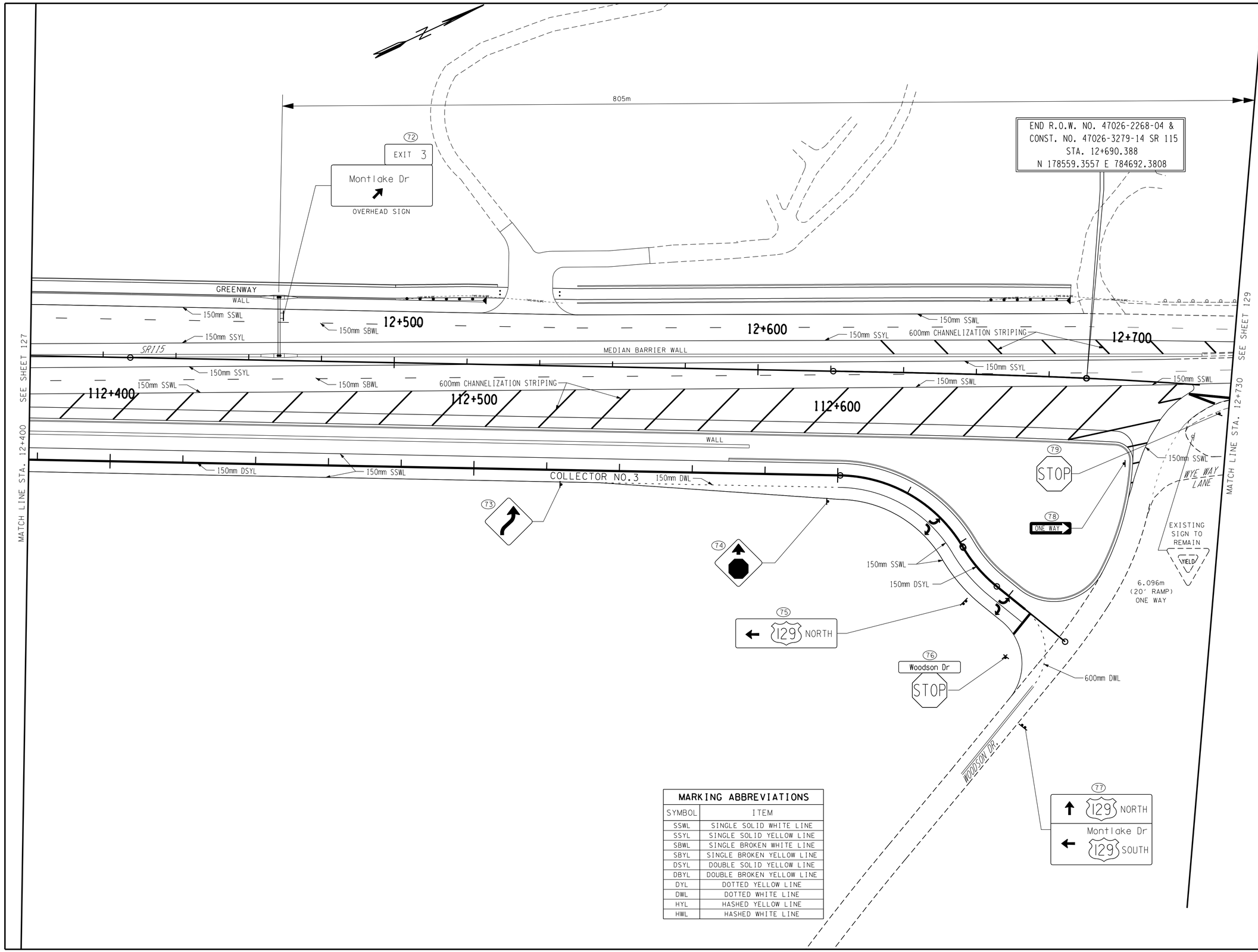
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA.12+100 - STA. 12+400
STA. 112+004.931 - STA. 112+378
STA.122+360-STA.122+609.219
STA.7+500 - STA.7+580, STA.6+360-STA.6+393.231 ,STA.9+585-STA.9+620

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	128



MARKING ABBREVIATIONS

SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

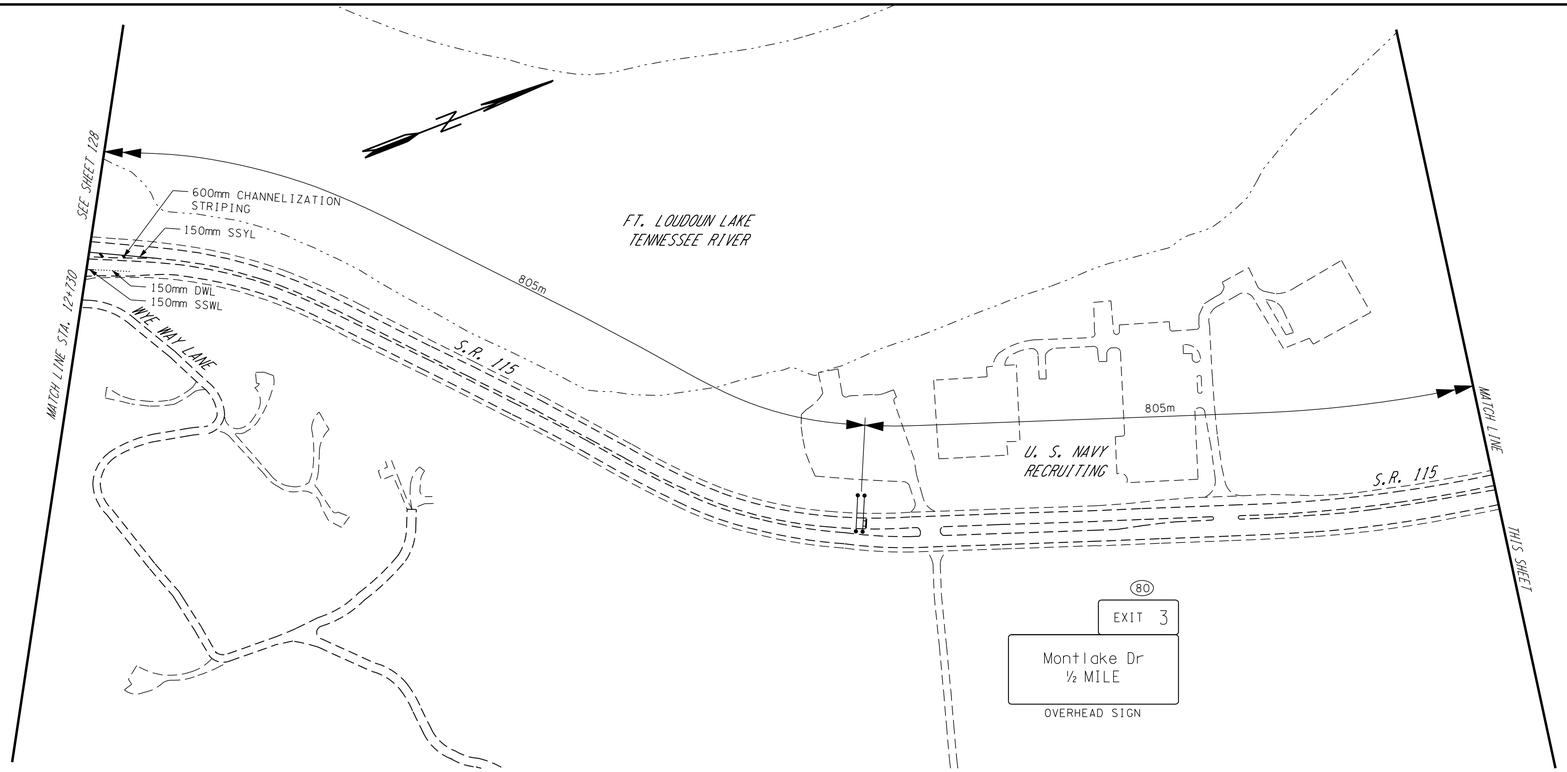
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE T.G.R.N.

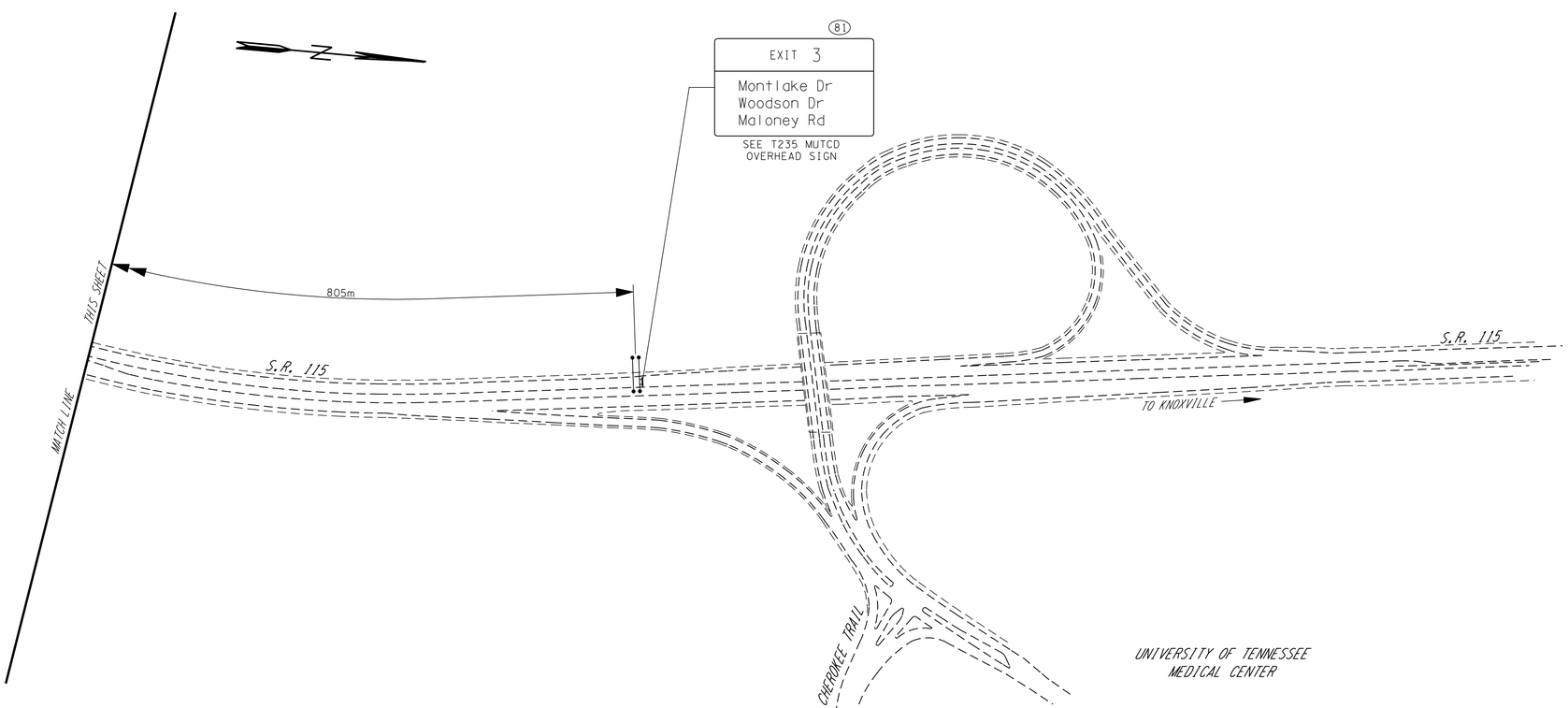
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA.12+400 - STA.12+690.388
STA.112+140 - STA.112+682.847
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	129





COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

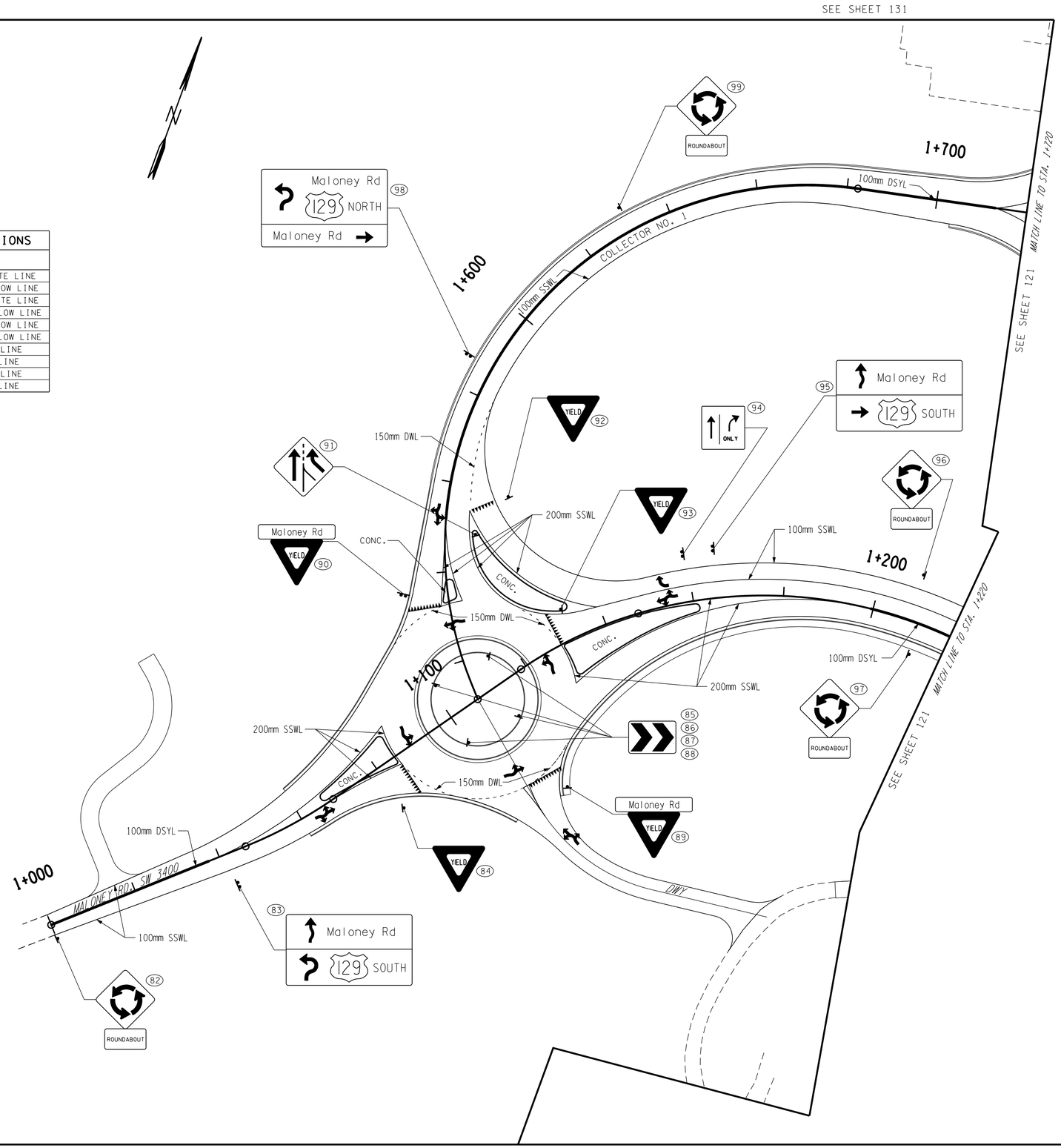
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

SCALE: 1:2000

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	130

MARKING ABBREVIATIONS	
SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE



COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

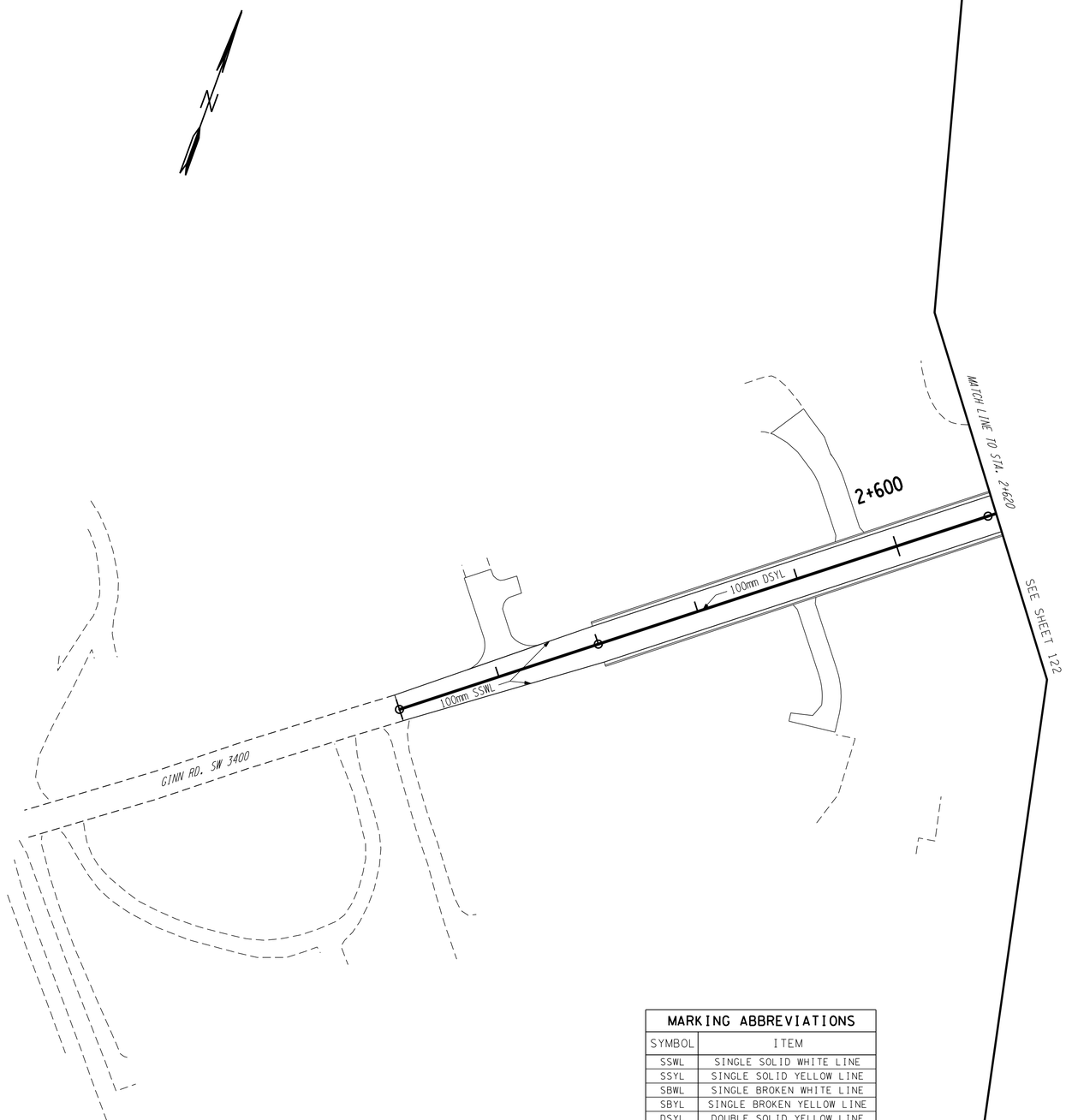
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA.1+000 - STA. 1+220
STA.1+512.857 - STA.1+720

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	131



MARKING ABBREVIATIONS	
SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

SEE SHEET 130

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

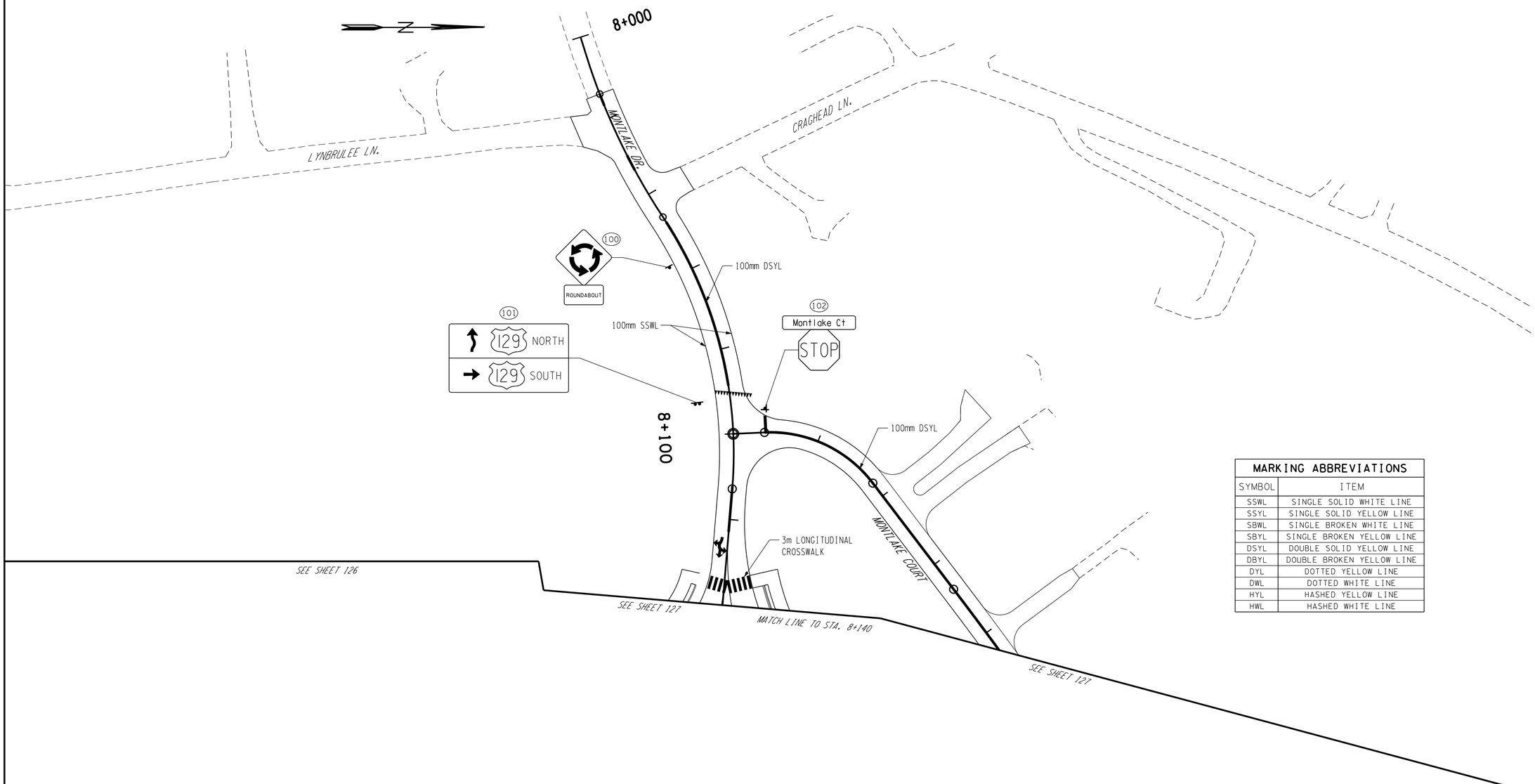
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 2+500 - STA. 2+620

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	132



MARKING ABBREVIATIONS

SYMBOL	ITEM
SSWL	SINGLE SOLID WHITE LINE
SSYL	SINGLE SOLID YELLOW LINE
SBWL	SINGLE BROKEN WHITE LINE
SBYL	SINGLE BROKEN YELLOW LINE
DSYL	DOUBLE SOLID YELLOW LINE
DBYL	DOUBLE BROKEN YELLOW LINE
DYL	DOTTED YELLOW LINE
DWL	DOTTED WHITE LINE
HYL	HASHED YELLOW LINE
HWL	HASHED WHITE LINE

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 8+014 - STA. 8+140
STA.9+500 - STA.9+585

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	133

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
1	EXIT 2 Maloney Rd Mt Vernon Dr Woodson Dr D3-2	119	3810 mm 150"	2743 mm 108"	12"	2"	16"	12"	15"	E MOD.			WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 9 PANELS)	OVERHEAD STRUCTURE					19'-6"	SEE SIGN DETAIL SHEET 140 (ITEM NO. 713M09.01)
2	EXIT 2 E1-5P Maloney Rd ½ MILE D3-2	119	1829 mm 72"	762mm 30"	3.75"	1.25"	10"		15"	E MOD.			WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 3 PANELS)	OVERHEAD STRUCTURE					19'-6"	SEE SIGN DETAIL SHEET 141 (ITEM NO. 713M09.02)
			3200 mm 126"	1676mm 66"	8"	1.25"	16"	12"	15"	E MOD.			WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 6 PANELS)							
3	EXIT 2 E1-5P Maloney Rd ↗ D3-2	120	1829 mm 72"	762mm 30"	3.75"	1.25"	10"		15"	E MOD.		A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 3 PANELS)	OVERHEAD STRUCTURE					19'-6"	SEE SIGN DETAIL SHEET 142 (ITEM NO. 713M09.03)
			3200 mm 126"	1676mm 66"	8"	1.25"	16"	12"	15"	D			WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 6 PANELS)							
4	EXIT 40 MPH W13-2	120	914mm 36"	1219mm 48"									BLACK	YELLOW (REF.)	0.080" SHEET ALUMINUM	P8	h=14'-0"				7'-0"	
68		127														3" X 3" SQUARE TUBE	h=6'-9"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21
5	W2-6 ROUNDABOUT W16-17P	120	762mm 30"	762mm 30"									BLACK	YELLOW (REF.)	0.080" SHEET ALUMINUM	P5	h=13'-3"				5'-0"	
19		121														P5	h=13'-3"				5'-0"	
29		121														P5	h=13'-3"				5'-0"	
51		126														P5	h=13'-3"				5'-0"	
65		127														3" X 3" SQUARE TUBE	h=10'-3"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21
70		127	610mm 24"	305mm 12"									BLACK	YELLOW (REF.)	0.080" SHEET ALUMINUM	P5	h=13'-3"				5'-0"	
82		130														P5	h=13'-3"				5'-0"	
96		130														P5	h=13'-3"				5'-0"	
97		130														P5	h=13'-3"				5'-0"	
99		130														P5	h=13'-3"				5'-0"	
100		132														P5	h=13'-3"				5'-0"	
6	↑ 129 NORTH Maloney Rd Maloney Rd → D1-3D	120	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24"	A CURVED -STEM B	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=13'-3" h2=14'-0" h3=14'-9"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT
7	W4-2R	121	1219mm 48"	1219mm 48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUMINUM	P8	h1=9'-9" h2=10'-3"				5'-0"	
30		121														3" X 3" SQUARE TUBE	h=8'-6"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21
41		123														3" X 3" SQUARE TUBE	h=8'-6"				7'-0"	TO BE PLACED ON TOP OF CONCRETE WALL, SEE STD. DWG. NO. T-S-21
50		126														3" X 3" SQUARE TUBE	h=8'-6"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21
8	EXIT 2 ↗ E5-1A	121	2261mm 89"	1524mm 60"	7.5"	1.25"	10"		15"	E MOD.		A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	4" X 4" SQUARE TUBE	h=7'-9"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21

SEALED BY

ENGLISH STANDARD DRAWINGS ARE TO BE USED ON THIS PROJECT

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

U-POST SUBSTITUTION TABLE

BID ITEM 713M11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2•
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

• PAID AT A RATE OF 2.5#/FT.

9/30/2015
k:\transportation\29701-01\plots\Signing and Pavement Marking\SignSchedule.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	134

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
9	Maloney Rd Dresser Rd 129 NORTH D1-2D	121	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24"	A A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=12'-0" h2=13'-3" h3=14'-6"				5'-0"	
10	Dresser Rd YIELD D3-1	121	1295mm 51"	457mm 18"	2.25"	1.25"	6"	4.5"	6"	D			WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U3	h=14'-3"				5'-0"	
20	R1-2	121	914mm x 914mm x 914mm 36" x 36" x 36"										WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	U3	h=14'-3"				5'-0"	
11	Dresser Rd Maloney Rd 129 NORTH D1-3D	121	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24"	A CURVED -STEM CURVED -STEM	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=13'-3" h2=14'-0" h3=14'-9"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT
12	Maloney Rd D1-1D	121	2743mm 108"	610mm 24"	3"	1.25"	6"	4.5"	6"	E MOD.		B	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 2 PANELS)	S3 X 5.7	h1=10'-0" h2=11'-0" h3=12'-0"				5'-0"	
13	W4-1	121	914mm 36"	914mm 36"									BLACK	YELLOW (REF.)	0.080" SHEET ALUMINUM	3" X 3" SQUARE TUBE	h=7'-0"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21
34		122														3" X 3" SQUARE TUBE	h=7'-0"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21
14	YIELD R1-2	121	914mm x 914mm x 914mm 36" x 36" x 36"										WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P5	h=13'-3"				5'-0"	
37	ONE WAY R6-1R	123	914mm 36"	305mm 12"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P5	h=13'-3"				5'-0"	
15	Dresser Rd STOP ONE WAY D3-1 R1-1 R6-1R	121	1295mm 51" 914mm 36" 914mm 36"	457mm 18" 914mm 36" 305mm 12"	2.25"	1.25"	6"	4.5"	6"	D			WHITE (REF.) WHITE (REF.) BLACK	GREEN (REF.) RED (REF.) WHITE (REF.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM 0.100" SHEET ALUMINUM	P8	h=15'-6"				5'-0"	
16	Maloney Rd 129 NORTH 129 SOUTH D1-3D	121	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24" 30"x24"	A A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=14'-6" h1=14'-6" h1=14'-6"				5'-0"	
17	Maloney Rd YIELD D3-1	121	1372mm 54"	457mm 18"	2.25"	1.25"	6"	4.5"	6"	D			WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U3	h=14'-3"				5'-0"	
25		121														U3	h=14'-3"				5'-0"	
89	R1-2	130	914mm x 914mm x 914mm 36" x 36" x 36"										WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	U3	h=14'-3"				5'-0"	
90		130														U3	h=14'-3"				5'-0"	
18	Maloney Rd Dresser Rd 129 NORTH D1-3D	121	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24" 30"x24"	CURVED -STEM CURVED -STEM A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=13'-9" h2=14'-0" h3=14'-6"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT

SEALED BY

ENGLISH STANDARD DRAWINGS ARE TO BE USED ON THIS PROJECT

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

U-POST SUBSTITUTION TABLE	
BID ITEM 713M11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

* PAID AT A RATE OF 2.5#/FT.

SIGN SCHEDULE

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	135

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
21	R6-4	121	762mm 30"	610mm 24"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	U6	h=10'-6"				5'-0"	
22		121														U6	h=10'-6"				5'-0"	
23		121														U6	h=10'-6"				5'-0"	
24		121														U6	h=10'-6"				5'-0"	
58		127														U6	h=10'-6"				5'-0"	
59		127														U6	h=10'-6"				5'-0"	
60		127														U6	h=10'-6"				5'-0"	
61		127														U6	h=10'-6"				5'-0"	
85		130														U6	h=10'-6"				5'-0"	
86		130														U6	h=10'-6"				5'-0"	
87		130														U6	h=10'-6"				5'-0"	
88		130														U6	h=10'-6"				5'-0"	
26	W4-3R	121	1219mm 48"	1219mm 48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUMINUM	P5	h1=12'-3" h2=12'-3"				5'-0"	
91		130														P5	h1=12'-3" h2=12'-3"				5'-0"	
27	W4-6	121	1219mm 48"	1219mm 48"									BLACK	YELLOW (REF.)	0.100" SHEET ALUMINUM	P5	h1=12'-3" h2=12'-9"				5'-0"	
28	Dresser Rd Maloney Rd Maloney Rd → D3-2	121	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.		CURVED -STEM CURVED -STEM B	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=12'-6" h2=13'-3" h3=14'-0"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT
31	South Cir D3-1 STOP R1-1 ONE WAY R6-1R	122	1219mm 48" 914mm 36" 914mm 36"	457mm 18" 914mm 36" 305mm 12"	2.25"	1.25"	6"	4.5"	6"	D			WHITE (REF.) WHITE (REF.) BLACK	GREEN (REF.) RED (REF.) WHITE (REF.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM 0.100" SHEET ALUMINUM	P5	h=15'-6"				5'-0"	
32	Ginn Rd D3-1 STOP R1-1 ONE WAY R6-1R	122	1067mm 42" 914mm 36" 914mm 36"	457mm 18" 914mm 36" 305mm 12"	2.25"	1.25"	6"	4.5"	6"	D			WHITE (REF.) WHITE (REF.) BLACK	GREEN (REF.) RED (REF.) WHITE (REF.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM 0.100" SHEET ALUMINUM	P5	h=15'-6"				5'-0"	
33		122														P5	h=15'-6"				5'-0"	
35	Ginn Rd NEXT RIGHT D3-2	122	1143mm 45"	762mm 30"	7.5"	1.25"	6"	4.5"	6"	E MOD.			WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	P8	h1=10'-0" h2=10'-9"				5'-0"	
36	Mt Vernon Dr Montlake Dr ↗ Woodson Dr D3-2	122	2438mm 96"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.		A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=12'-0" h2=13'-0" h3=14'-0"				5'-0"	
38	TO M4-5 NORTH M3-1 129 M1-4 → M6-1R	123	610mm 24" 610mm 24" 762mm 30" 533mm 21"	305mm 12" 305mm 12" 610mm 24" 381mm 15"									BLACK BLACK BLACK BLACK	WHITE (REF.) WHITE (REF.) WHITE (REF.) WHITE (REF.)	0.080" SHEET ALUMINUM 0.080" SHEET ALUMINUM 0.080" SHEET ALUMINUM 0.080" SHEET ALUMINUM	P8	h=15'-6"				5'-0"	

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ENGLISH STANDARD DRAWINGS ARE TO BE USED ON THIS PROJECT

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

U-POST SUBSTITUTION TABLE

BID ITEM 713M11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2•
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

• PAID AT A RATE OF 2.5#/FT.

SIGN SCHEDULE

9/30/2015
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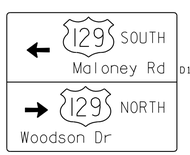
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	136

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND		SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	REMARKS
39		W3-2	123	762mm 30"	762mm 30"									RED (REF.) BLACK	YELLOW (REF.)	0.080" SHEET ALUMINUM	P8	h=13'-0"				5'-0"	
40		M3-1 M1-4 M6-3	123	610mm 24" 762mm 30" 533mm 21"	305mm 12" 610mm 24" 381mm 15"									BLACK BLACK BLACK	WHITE (REF.) WHITE (REF.) WHITE (REF.)	0.080" SHEET ALUMINUM 0.080" SHEET ALUMINUM 0.080" SHEET ALUMINUM	P8	h=14'-3"				5'-0"	
42		R1-1 R6-1R	124	914mm 36" 914mm 36"	914mm 36" 305mm 12"									WHITE (REF.) BLACK	RED (REF.) WHITE (REF.)	0.080" SHEET ALUMINUM 0.100" SHEET ALUMINUM	P5	h=13'-9"				5'-0"	
43		D3-1 R1-1	125	1600mm 63" 762mm 30"	457mm 18" 762mm 30"	2.25"	1.25"	6"	4.5"	6"	D			WHITE (REF.) WHITE (REF.)	GREEN (REF.) RED (REF.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM	P5	h=13'-9"				5'-0"	
44		D3-1 D3-1 R1-1	125	1676mm 66" 1676mm 66" 762mm 30"	457mm 18" 457mm 18" 762mm 30"	2.25" 2.25"	1.25" 1.25"	6" 6"	4.5" 4.5"	6" 6"	D D			WHITE (REF.) WHITE (REF.) WHITE (REF.)	GREEN (REF.) GREEN (REF.) RED (REF.)	0.100" SHEET ALUMINUM 0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM	P5	h=15'-6"				5'-0"	
45		D1-3D	125	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.			WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=14'-0" h2=15'-3" h3=16'-6"				5'-0"	
46		M4-5 M3-3 M1-4 M6-3	125	610mm 24" 610mm 24" 762mm 30" 533mm 21"	305mm 12" 305mm 12" 610mm 24" 381mm 15"									BLACK BLACK BLACK BLACK	WHITE (REF.) WHITE (REF.) WHITE (REF.) WHITE (REF.)	0.080" SHEET ALUMINUM 0.080" SHEET ALUMINUM 0.080" SHEET ALUMINUM 0.080" SHEET ALUMINUM	3" X 3" SQUARE TUBE	h=8'-9"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21
47		D1-3D	125	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24" 30"x24"	A A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=14'-6" h2=15'-9" h3=17'-0"				5'-0"	
48		R1-1	125	914mm 36"	914mm 36"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P3	h=12'-6"				5'-0"	
79			128														P3	h=12'-6"				5'-0"	

BID ITEM 713M11.01	
2*/FT. U1	SUBSTITUTION ALLOWED
2.5*/FT. U3	2*/FT. MU1 OR 2*/FT. R1
	2.5*/FT. MU3 OR 3*/FT. R2•
3*/FT. U6	
4*/FT. U7	NO SUBSTITUTES

• PAID AT A RATE OF 2.5*/FT.

SEALED BY

ENGLISH STANDARD DRAWINGS ARE TO BE USED ON THIS PROJECT

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	137

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	
49	Maloney Rd 129 SOUTH 129 NORTH D3-2	125	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24" 30"x24"	A A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	OVERHEAD STRUCTURE					19'-6"	SEE SIGN DETAIL SHEET 143 (ITEM NO. 713M09.04)
52	Montlake Dr Woodson Dr 129 NORTH D3-2	126	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24"	CURVED -STEM A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=14'-6" h2=14'-6" h3=14'-6"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT
53	YIELD R1-2	127	914mm x 914mm x 914mm 36" x 36" x 36"										WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	3" X 3" SQUARE TUBE	h=5'-3"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21
54		127														U3	h=12'-6"				5'-0"	
62		127														U3	h=12'-6"				5'-0"	
84		130														U3	h=12'-6"				5'-0"	
92		130														U3	h=12'-6"				5'-0"	
93		130														U3	h=12'-6"				5'-0"	
55	DO NOT ENTER R5-1	127	762mm 30"	762mm 30"									WHITE (REF.)	WHITE (REF.) RED (REF.)	0.100" SHEET ALUMINUM	2½" DIA.	h=12'-0"				5'-0"	2½" DIA. POST ITEM NO. 713M11.03 REQUIRES ROUND SLIP BASE, ITEM NO. 713M11.23 SEE STD. DWG. NO. T-S-23B
57	Montlake Dr D3-1 YIELD R1-2	127	1448mm 57"	457mm 18"	2.25"	1.25"	6"	4.5"	6"	D			WHITE (REF.) WHITE (REF.)	GREEN (REF.) RED (REF.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM	3" X 3" SQUARE TUBE	h=7'-0"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21
			914mm x 914mm x 914mm 36" x 36" x 36"																			
63	WRONG WAY R5-1a	127	914mm 36"	610mm 24"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	3" X 3" SQUARE TUBE	h=4'-9"				7'-0"	TO BE PLACED ON TOP OF CONCRETE BARRIER WALL, SEE STD. DWG. NO. T-S-21
64		127														P2	h=11'-6"				5'-0"	
66	Maloney Rd Woodson Dr Montlake Dr D3-2	127	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.		CURVED -STEM CURVED -STEM B	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=14'-3" h2=14'-9" h3=15'-0"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT
67	EXIT 3 E5-1a	127	2261mm 89"	1524mm 60"	7.5"	1.25"	10"		15"	E MOD.		A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=15'-0" h2=15'-6"				7'-0"	
69	Montlake Dr Maloney Rd 129 SOUTH D3-2	127	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24"	CURVED -STEM CURVED -STEM	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=13'-6" h2=14'-0" h3=14'-6"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT

SEALED BY

ENGLISH STANDARD DRAWINGS ARE TO BE USED ON THIS PROJECT

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

U-POST SUBSTITUTION TABLE	
BID ITEM 713M11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES
* PAID AT A RATE OF 2.5#/FT.	

9/30/2015
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	138

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE LENGTH	SIZE HEIGHT	SIZE RADIUS	SIZE BORDER WIDTH	COPY CAPITAL	COPY LOWER CASE	COPY NUMERAL	COPY SERIES	SHIELD	ARROW	SIGN FACE COPY	SIGN FACE BACKGROUND	SIGN FACE MATERIAL	STEEL DESIGN (BREAK-AWAY) SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.	MINIMUM VERTICAL CLEARANCE	
71	Barber Hill Rd D3-1 STOP R1-1	127	1676mm 66" 762mm 30"	457mm 18" 762mm 30"	2.25"	1.25"	6"	4.5"	6"	D			WHITE (REF.) WHITE (REF.)	GREEN (REF.) RED (REF.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM	P5	h=13'-9"				5'-0"	
72	EXIT 3 E1-5P Montlake Dr D3-2	128	1829mm 72" 3277 mm 129"	762mm 30" 1676mm 66"	3.75" 8"	1.25" 1.25"	10" 16"	 12"	15" 15"	E MOD. E MOD.		A	WHITE (REF.) WHITE (REF.)	GREEN (REF.) GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 3 PANELS) EXTRUDED ALUMINUM PANELS (INCLUDES 6 PANELS)	OVERHEAD STRUCTURE					19'-6"	SEE SIGN DETAIL SHEET 144 (ITEM NO. 713M09.05)
73	W1-4R	128	762mm 30"	762mm 30"									BLACK	YELLOW (REF.)	0.080" SHEET ALUMINUM	P8	h=13'-0"				5'-0"	
74	W3-1	128	762mm 30"	762mm 30"									RED (REF.) BLACK	YELLOW (REF.)	0.080" SHEET ALUMINUM	P8	h=13'-0"				5'-0"	
75	129 NORTH D3-2	128	2134mm 84"	914mm 36"	4.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24"	B	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 3 PANELS)	S3 X 5.7	h1=11'-6" h2=12'-0" h3=12'-6"				5'-0"	
76	Woodson Dr D3-1 STOP R1-1	128	1372mm 54" 914mm 36"	457mm 18" 914mm 36"	2.25"	1.25"	6"	4.5"	6"	D			WHITE (REF.) WHITE (REF.)	GREEN (REF.) RED (REF.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM	P5	h=14'-3"				5'-0"	
77	129 NORTH Montlake Dr 129 SOUTH D3-2	128	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24" 30"x24"	A A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=14'-6" h1=14'-6" h1=14'-6"				5'-0"	
78	ONE WAY R6-1R	128	914mm 36"	305mm 12"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM	P1	h=10'-6"				5'-0"	
80	EXIT 3 E1-5P Montlake Dr ½ MILE D3-2	129	1829mm 72" 3277 mm 129"	762mm 30" 1981mm 78"	3.75" 12"	1.25" 2"	10" 16"	 12"	15" 15"	E MOD. E MOD.			WHITE (REF.) WHITE (REF.)	GREEN (REF.) GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 3 PANELS) EXTRUDED ALUMINUM PANELS (INCLUDES 7 PANELS)	OVERHEAD STRUCTURE					19'-6"	SEE SIGN DETAIL SHEET 145 (ITEM NO. 713M09.06)
81	EXIT 3 Montlake Dr Woodson Dr Maloney Rd D3-2	129	3810 mm 150"	2743 mm 108"	12"	2"	16"	12"	15"	E MOD.			WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 9 PANELS)	OVERHEAD STRUCTURE					19'-6"	SEE SIGN DETAIL SHEET 146 (ITEM NO. 713M09.07)

U-POST SUBSTITUTION TABLE	
BID ITEM 713M11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2•
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

• PAID AT A RATE OF 2.5#/FT.

SEALED BY

ENGLISH STANDARD DRAWINGS ARE TO BE USED ON THIS PROJECT

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

9/30/2015
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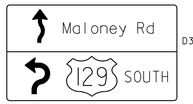
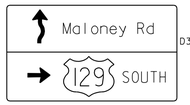
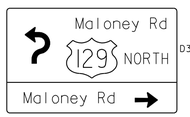
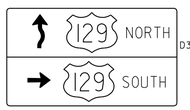
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	139

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
83		130	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24"	CURVED -STEM CURVED -STEM	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=13'-6" h2=14'-3" h3=15'-0"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT
94		130	1219mm 48"	762mm 30"									BLACK	WHITE (REF.)	0.100" SHEET ALUMINUM	U6	h1=11'-6" h2=12'-0"				5'-0"	
95		130	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24"	CURVED -STEM A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=13'-6" h2=14'-0" h3=14'-9"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT
98		130	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24"	CURVED -STEM A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=13'-3" h2=13'-9" h3=14'-6"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT
101		132	2134mm 84"	1524mm 60"	7.5"	1.25"	6"	4.5"	6"	E MOD.	30"x24" 30"x24"	CURVED -STEM A	WHITE (REF.)	GREEN (REF.)	EXTRUDED ALUMINUM PANELS (INCLUDES 5 PANELS)	S4 X 7.7	h1=13'-6" h2=14'-0" h3=14'-6"				5'-0"	SEE THE CURRENT EDITIONS OF THE MUTCD (SECTION 2D.08, ARROWS) AND STANDARD HIGHWAY SIGNS MANUAL AND SUPPLEMENT
102		132	1448mm 57" 762mm 30"	457mm 18" 762mm 30"	2.25"	1.25"	6"	4.5"	6"	D			WHITE (REF.) WHITE (REF.)	GREEN (REF.) RED (REF.)	0.100" SHEET ALUMINUM 0.080" SHEET ALUMINUM	P5	h=13'-9"				5'-0"	

SEALED BY

ENGLISH STANDARD DRAWINGS ARE TO BE USED ON THIS PROJECT

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

U-POST SUBSTITUTION TABLE

BID ITEM 713M11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MU1 OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

* PAID AT A RATE OF 2.5#/FT.

SIGN SCHEDULE

9/30/2015
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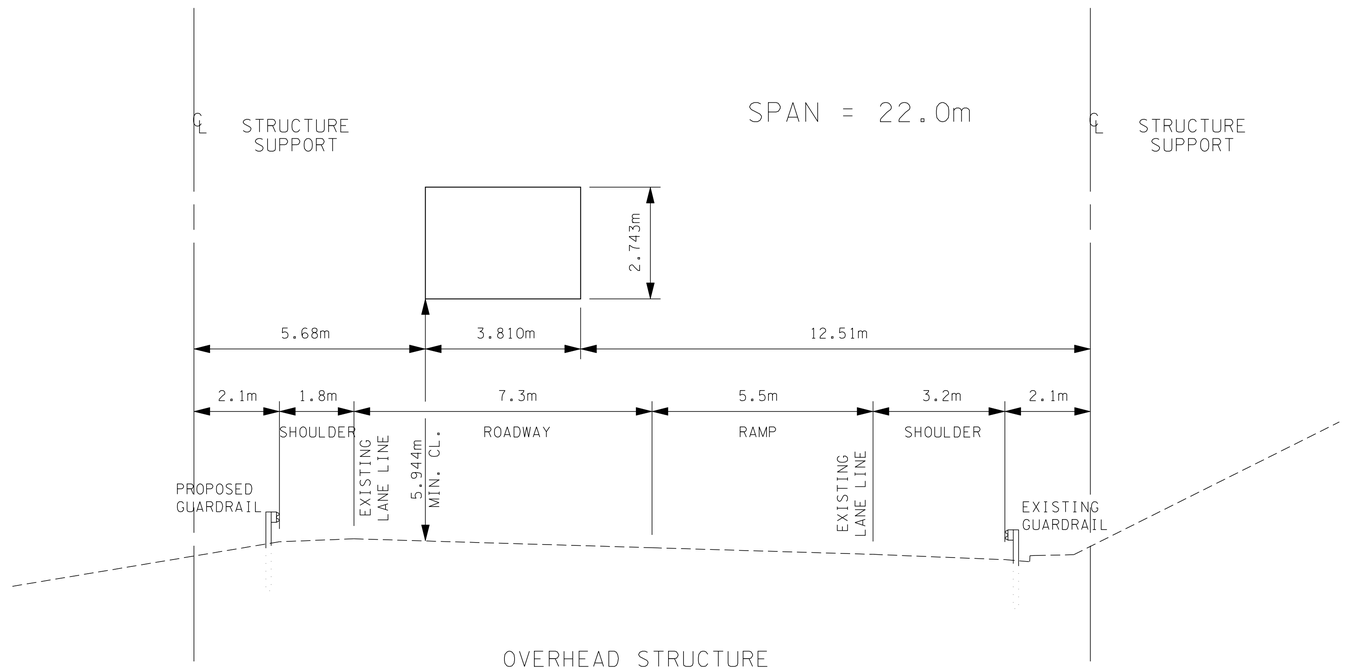
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROJECT NO.	YEAR	SHEET NO.
47026-3279-14	2016	140

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



OVERHEAD STRUCTURE

SIGN NO. 1
S.R. 115 STA. 8+482 NBL

DESIGN DATA

SIGN DESIGN AREA = 35.11 m²
WIND VELOCITY=145km/h

SIGN STRUCTURE
I.D. NUMBER
XXX

SEALED BY

NOTES:

PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO "STANDARD BRIDGE DRAWING" "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS STANDARD DRAWING ON THE T.D.O.T. WEBSITE.

OVERHEAD SIGN SHEETING TO BE TYPE THREE OR BETTER.

THE COST OF THE FOOTINGS ARE TO BE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

KNOX COUNTY
S.R. 115 ALCOA HIGHWAY
SIGN NO. 1

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

9/30/2015
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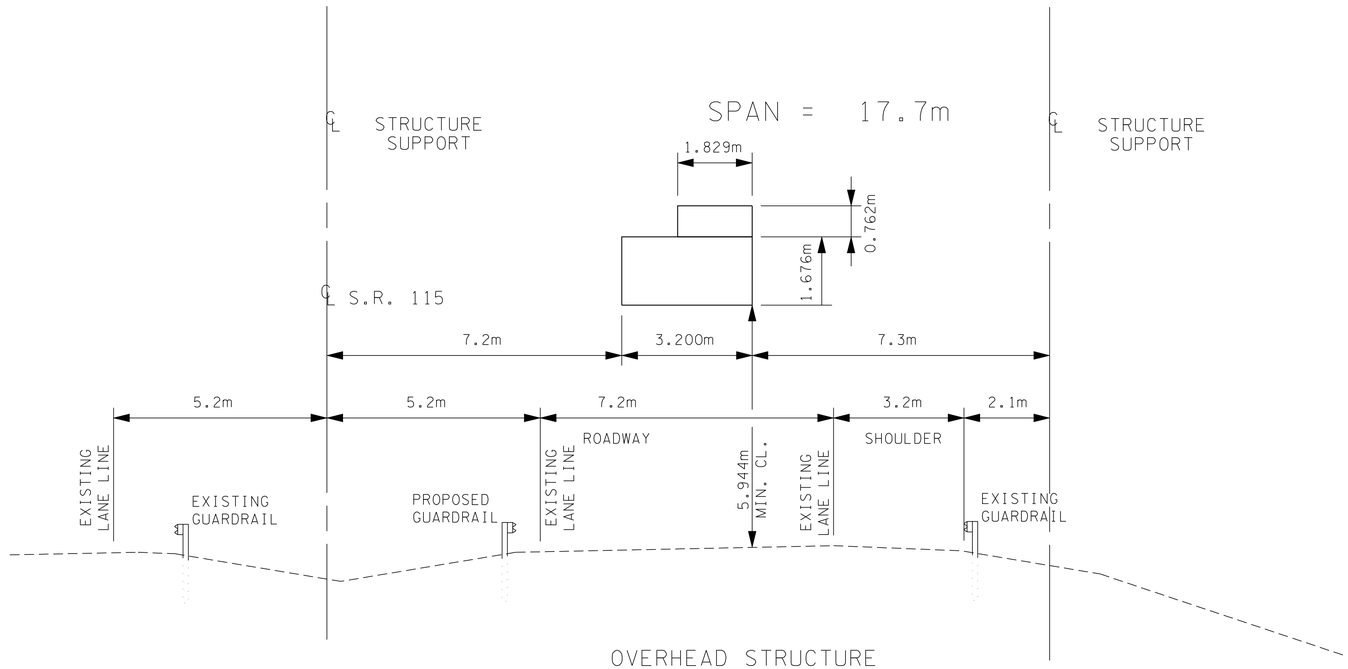
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROJECT NO.	YEAR	SHEET NO.
47026-3279-14	2016	141

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



OVERHEAD STRUCTURE

SIGN NO. 2
S.R. 115 STA. 9+287 NBL

DESIGN DATA

SIGN DESIGN AREA = 12.07 m²
WIND VELOCITY=145km/h

SIGN STRUCTURE
I.D. NUMBER
XXX

SEALED BY

NOTES:

PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO "STANDARD BRIDGE DRAWING" "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS STANDARD DRAWING ON THE T.D.O.T. WEBSITE.

OVERHEAD SIGN SHEETING TO BE TYPE THREE OR BETTER.

THE COST OF THE FOOTINGS ARE TO BE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

KNOX COUNTY
S.R. 115 ALCOA HIGHWAY
SIGN NO. 2

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

9/30/2015
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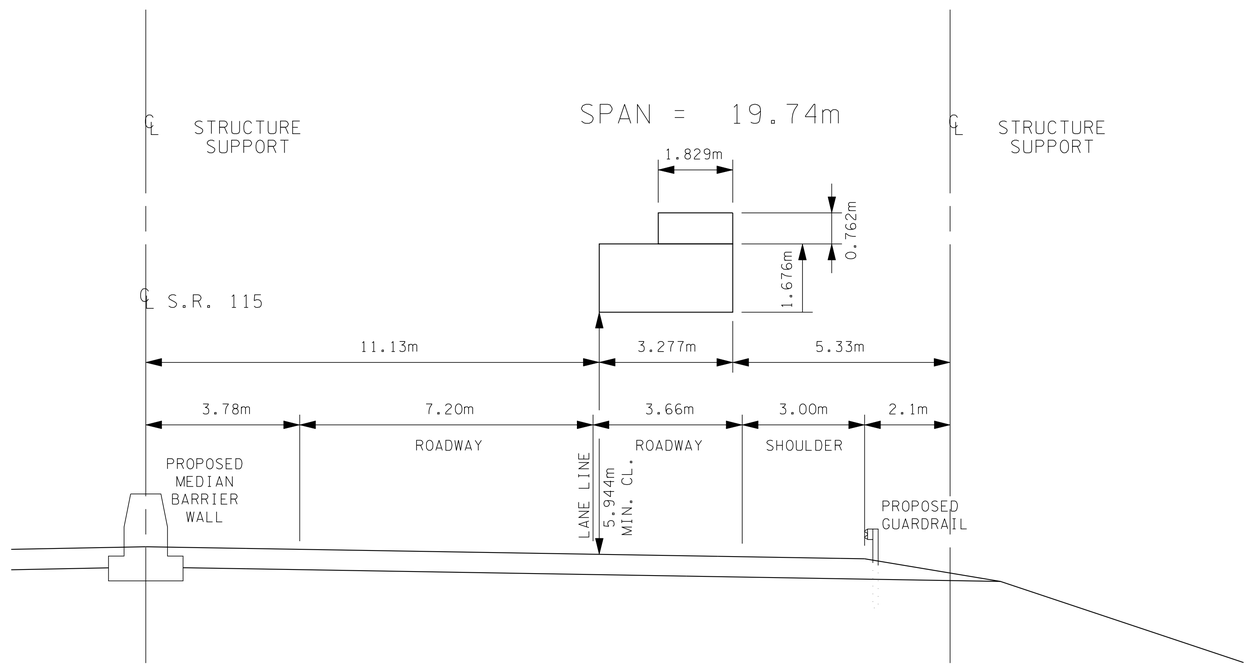
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROJECT NO.	YEAR	SHEET NO.
47026-3279-14	2016	142

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



OVERHEAD STRUCTURE

SIGN NO. 3
S.R. 115 STA. 10+091.370 NBL

DESIGN DATA

SIGN DESIGN AREA = 18.20 m²
WIND VELOCITY=145km/h

SIGN STRUCTURE
I.D. NUMBER
XXX

SEALED BY

NOTES:

PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO "STANDARD BRIDGE DRAWING" "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS STANDARD DRAWING ON THE T.D.O.T. WEBSITE.

OVERHEAD SIGN SHEETING TO BE TYPE THREE OR BETTER.

THE COST OF THE FOOTINGS ARE TO BE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

KNOX COUNTY
S.R. 115 ALCOA HIGHWAY
SIGN NO. 3

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

9/30/2015
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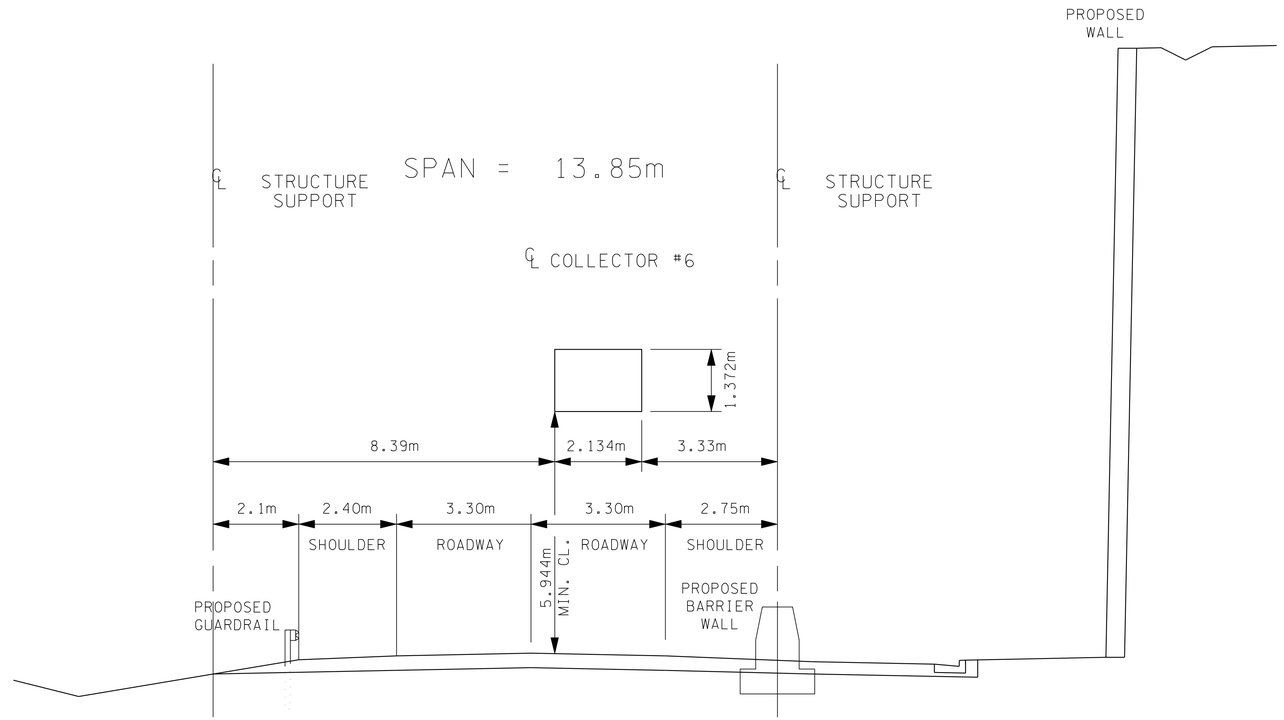
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROJECT NO.	YEAR	SHEET NO.
47026-3279-14	2016	143

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



OVERHEAD STRUCTURE

SIGN NO. 49
COLLECTOR #6 STA. 6+041.000 SBL

DESIGN DATA

SIGN DESIGN AREA = 10.06 m²
WIND VELOCITY=145km/h

SIGN STRUCTURE
I.D. NUMBER
XXX

SEALED BY

NOTES:

PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO "STANDARD BRIDGE DRAWING" "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS STANDARD DRAWING ON THE T.D.O.T. WEBSITE.

OVERHEAD SIGN SHEETING TO BE TYPE THREE OR BETTER.

THE COST OF THE FOOTINGS ARE TO BE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

KNOX COUNTY
S.R. 115 ALCOA HIGHWAY
SIGN NO. 49

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

9/30/2015
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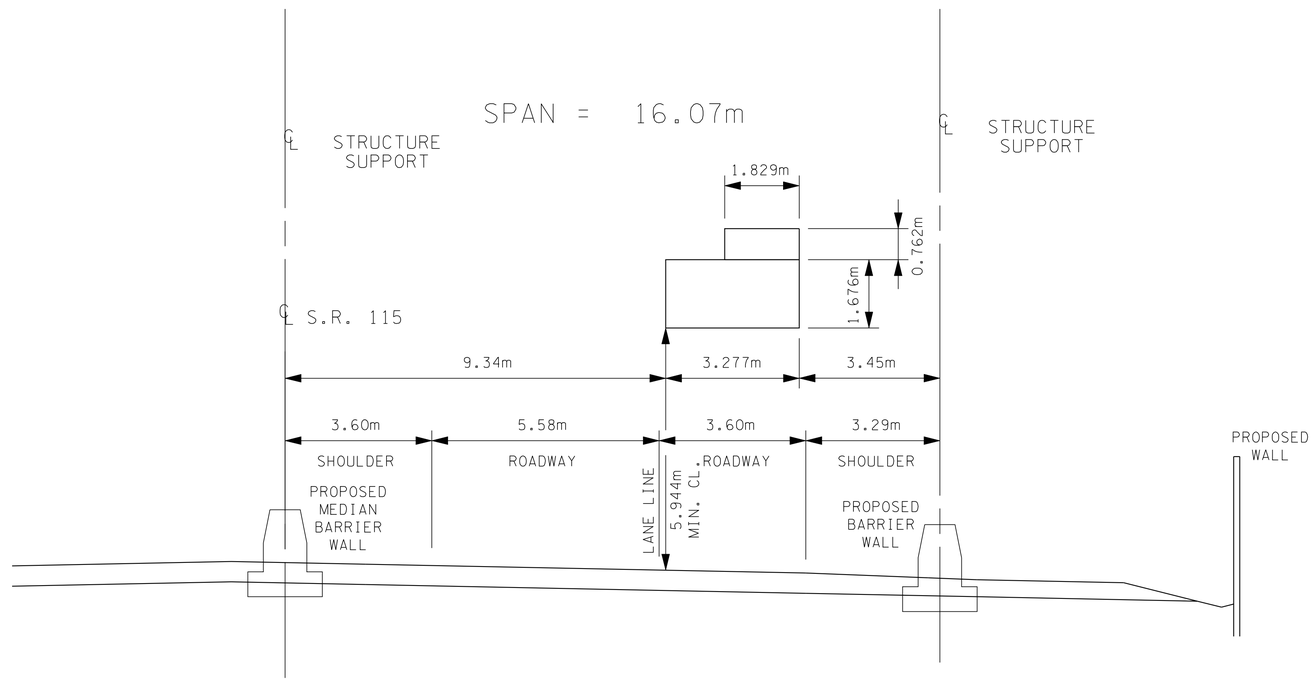
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROJECT NO.	YEAR	SHEET NO.
47026-3279-14	2016	144

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



OVERHEAD STRUCTURE

SIGN NO. 72
S.R. 115 STA. 12+468.337 SBL

DESIGN DATA

SIGN DESIGN AREA = 15.39 m²
WIND VELOCITY=145km/h

SIGN STRUCTURE
I.D. NUMBER
XXX

SEALED BY

NOTES:

PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO "STANDARD BRIDGE DRAWING" "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS STANDARD DRAWING ON THE T.D.O.T. WEBSITE.

OVERHEAD SIGN SHEETING TO BE TYPE THREE OR BETTER.

THE COST OF THE FOOTINGS ARE TO BE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

KNOX COUNTY
S.R. 115 ALCOA HIGHWAY
SIGN NO. 72

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

9/30/2015
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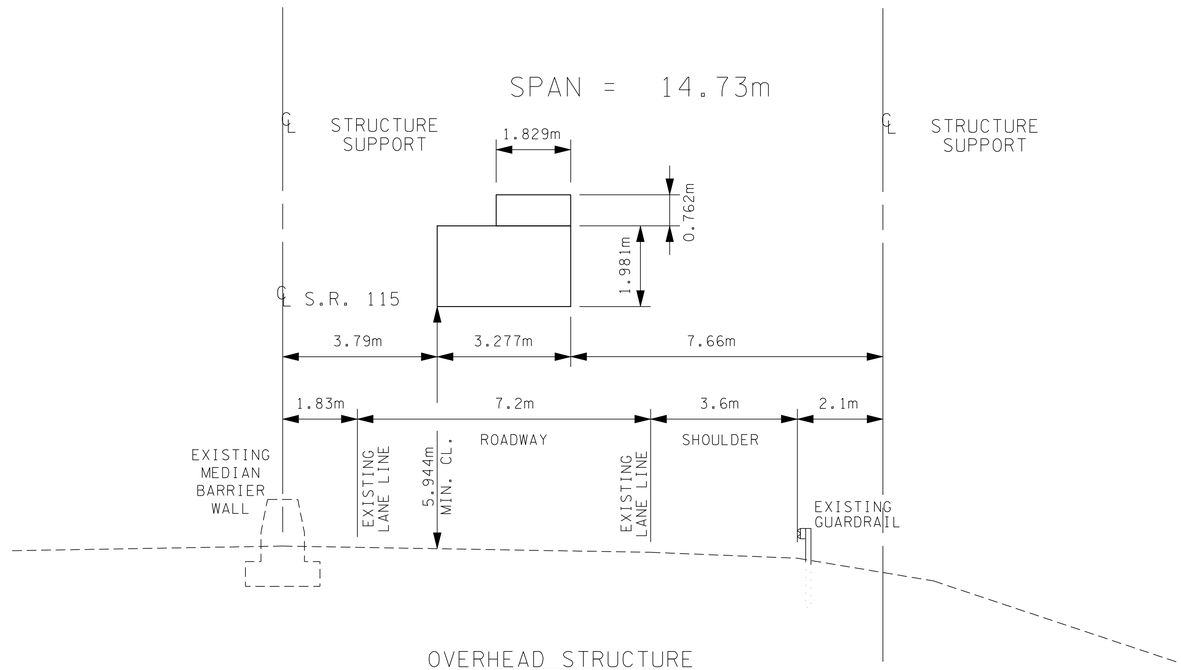
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROJECT NO.	YEAR	SHEET NO.
47026-3279-14	2016	145

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



OVERHEAD STRUCTURE

SIGN NO. 80
S.R. 115 STA. 13+273 SBL

DESIGN DATA

SIGN DESIGN AREA = 13.87 m²
WIND VELOCITY=145km/h

SIGN STRUCTURE
I.D. NUMBER
XXX

SEALED BY

NOTES:

PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO "STANDARD BRIDGE DRAWING" "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS STANDARD DRAWING ON THE T.D.O.T. WEBSITE.

OVERHEAD SIGN SHEETING TO BE TYPE THREE OR BETTER.

THE COST OF THE FOOTINGS ARE TO BE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

KNOX COUNTY
S.R. 115 ALCOA HIGHWAY
SIGN NO. 80

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

9/30/2015
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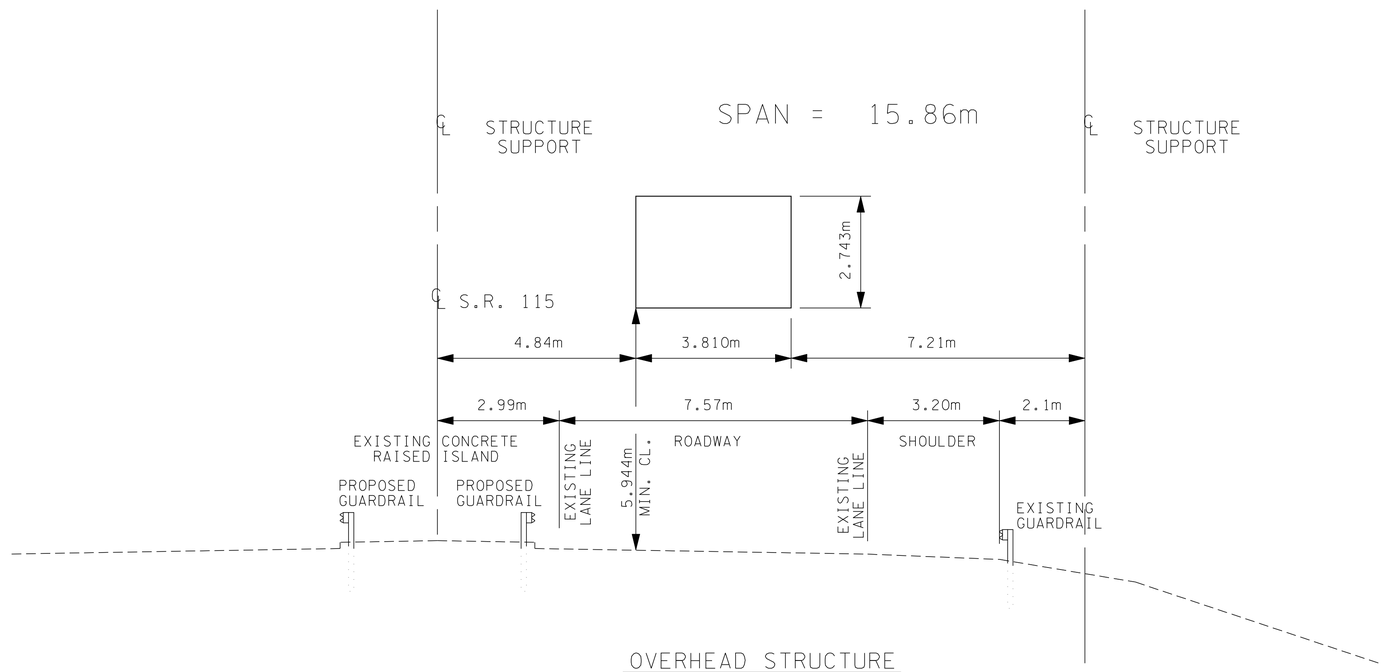
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROJECT NO.	YEAR	SHEET NO.
47026-3279-14	2016	146

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



OVERHEAD STRUCTURE

SIGN NO. 81
S.R. 115 STA. 14+078 SBL

DESIGN DATA

SIGN DESIGN AREA = 20.76 m²
WIND VELOCITY=145km/h

SIGN STRUCTURE
I.D. NUMBER
XXX

SEALED BY

NOTES:

PRIOR TO ORDERING ANY MATERIAL, THE CONTRACTOR SHALL FIELD MEASURE THE SIGN STRUCTURE TO VERIFY SPAN LENGTH.

THE CONTRACTOR SHALL REFER TO "STANDARD BRIDGE DRAWING" "STD-8-4". IF THIS DRAWING IS NOT IN THE PLANS THE CONTRACTOR CAN FIND THIS STANDARD DRAWING ON THE T.D.O.T. WEBSITE.

OVERHEAD SIGN SHEETING TO BE TYPE THREE OR BETTER.

THE COST OF THE FOOTINGS ARE TO BE INCLUDED IN THE BID ITEM FOR THIS SIGN STRUCTURE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

KNOX COUNTY
S.R. 115 ALCOA HIGHWAY
SIGN NO. 81

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

9/30/2015
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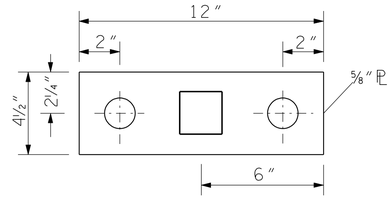
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

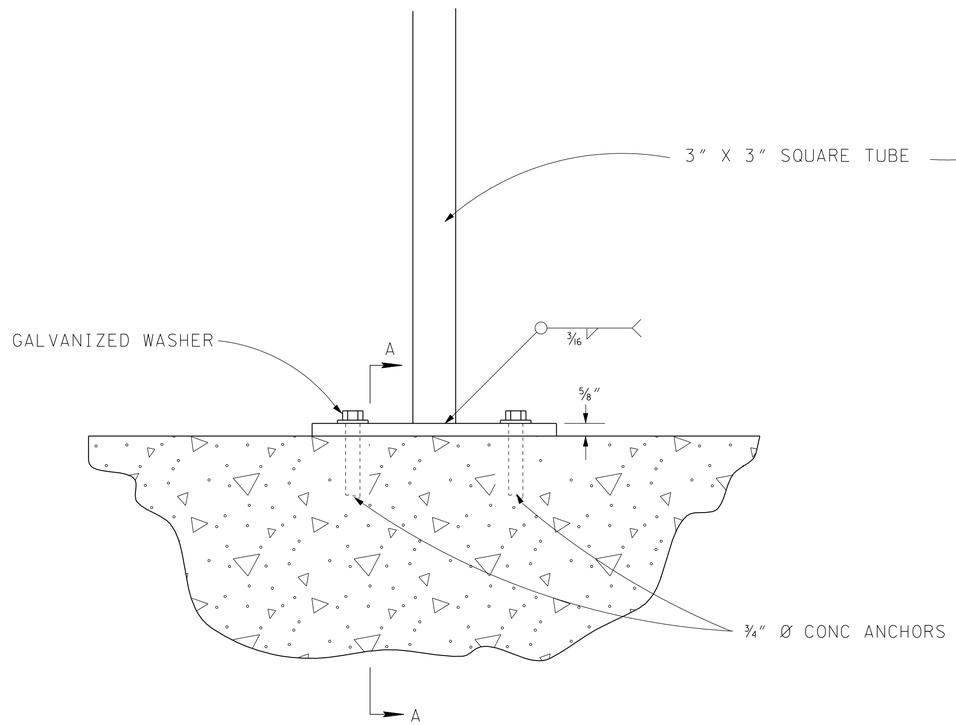
PROJECT NO.	YEAR	SHEET NO.
47026-3279-14	2016	147

REVISIONS

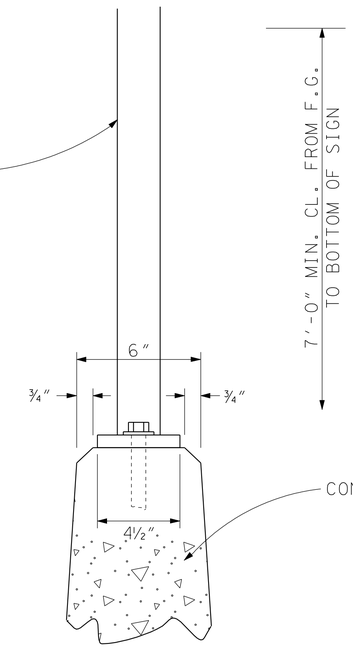
NO.	DATE	BY	BRIEF DESCRIPTION



BASE PLATE DETAIL



ELEVATION



SECTION A - A

DETAILS FOR SIGNS MOUNTED ON CONCRETE MEDIAN BARRIER & NOISE BARRIER

SIGN NO'S -
13, 30, 34, 41, 46, 50,
53, 57, 63, 65 AND 68

NOTES: AFTER UNIT IS FABRICATED IT SHALL BE GALVANIZED PER ASTM A123. ALL PARTS AND FABRRICATION OF THIS UNIT (INCLUDING 3" X 3" SQUARE TUBE) SHALL BE PAID FOR UNDER ITEM NO. 713-02.40. SEE STD. DWG. NO. T-S-21 FOR SIGN DETAILS.

SEALED BY

TENNESSEE METRIC D.O.T.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

KNOX COUNTY
S.R. 115 ALCOA HIGHWAY
SIGN DETAILS

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

9/30/2015
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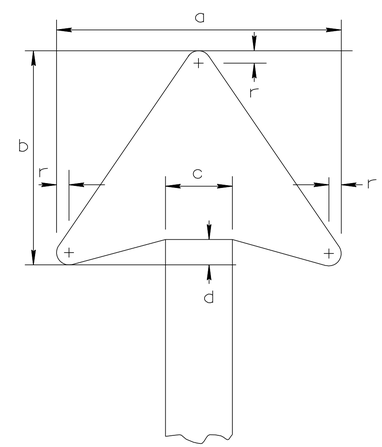
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

PROJECT NO.	YEAR	SHEET NO.
47026-3279-14	2016	148

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

ARROWHEAD	ARROW DIMENSIONS IN INCHES				
	a	b	c	d	r
"G"	22-1/4	17	5-3/8	1-3/4	1
"G" MODIFIED "B"	33-3/8	25-1/2	8-1/16	2-5/8	1-1/2



"G" ARROW

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

KNOX COUNTY
S.R. 115 ALCOA HIGHWAY
SIGN DETAILS

CORRECT _____
ENGINEER OF STRUCTURES

APPROVED _____
DIRECTOR OF HIGHWAYS

9/30/2015
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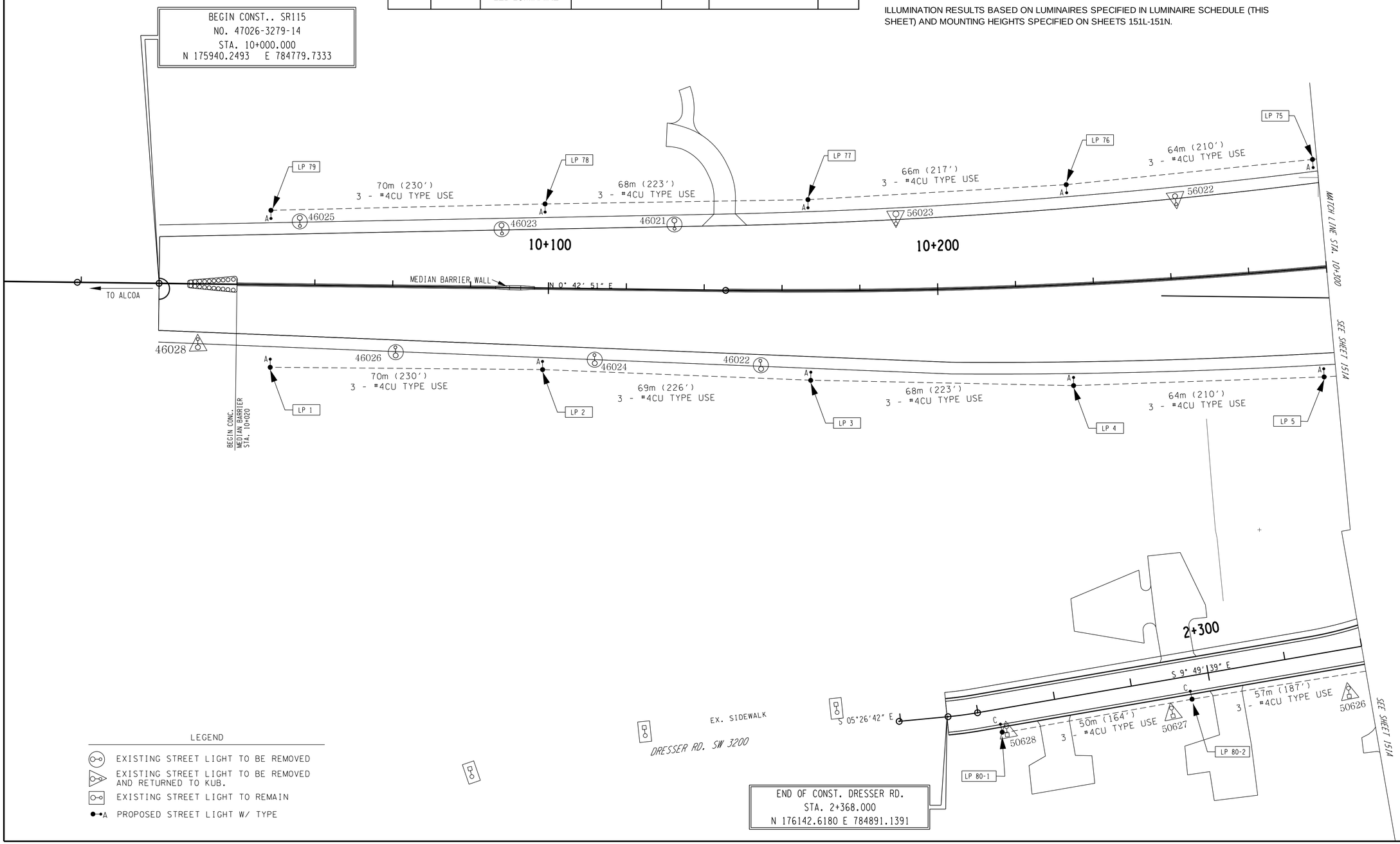
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONT.	2016	47026-3279-14	151

LUMINAIRE SCHEDULE						
LEGEND	QUANTITY	DESCRIPTION	CATALOG NUMBER	WATTAGE	IES FILE	LLF
A	80	COOPER NAVION LED LUMINAIRE	NVN-AE-03-E-U-SL4	157	NVN-AE-03-E-U-SL4.ies	0.9
B	93	COOPER NAVION LED LUMINAIRE	NVN-AE-03-E-U-T3	157	NVN-AE-03-E-U-T3.ies	0.9
C	4	COOPER NAVION LED LUMINAIRE	NVN-AE-02-E-U-T3	107	NVN-AE-02-E-U-T3.ies	0.9

ILLUMINATION RESULTS					
SECTION	AVG.	MAX.	MIN.	MAX/MIN	AVG/MIN
SR 115 NORTHBOUND	0.8 fc	1.8 fc	0.4 fc	4.5 : 1	2.0 : 1
SR 115 SOUTHBOUND	0.8 fc	1.6 fc	0.4 fc	4.0 : 1	2.0 : 1
AUXILLARY LANE NORTHBOUND	0.8 fc	1.8 fc	0.4 fc	4.5 : 1	2.0 : 1
AUXILLARY LANE SOUTHBOUND	0.8 fc	1.3 fc	0.3 fc	4.3 : 1	2.7 : 1

ILLUMINATION RESULTS BASED ON LUMINAIRES SPECIFIED IN LUMINAIRE SCHEDULE (THIS SHEET) AND MOUNTING HEIGHTS SPECIFIED ON SHEETS 151L-151N.



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TENNESSEE METRIC D.O.T.

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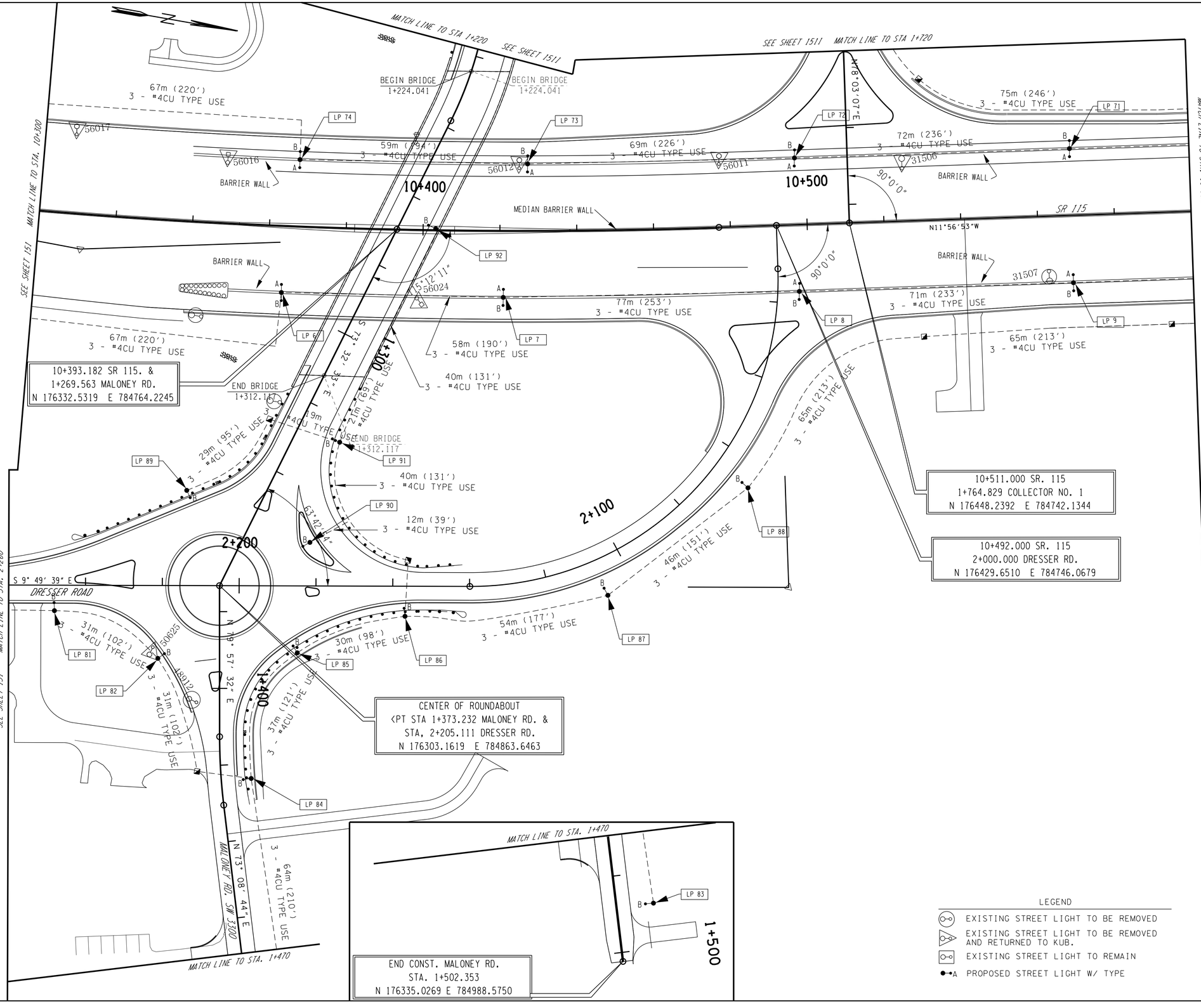
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

STA. 10+000 - STA. 10+300
STA. 2+260 - STA. 2+368

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151A



LEGEND

- EXISTING STREET LIGHT TO BE REMOVED
- EXISTING STREET LIGHT TO BE REMOVED AND RETURNED TO KUB.
- EXISTING STREET LIGHT TO REMAIN
- A PROPOSED STREET LIGHT W/ TYPE

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D.O.T.

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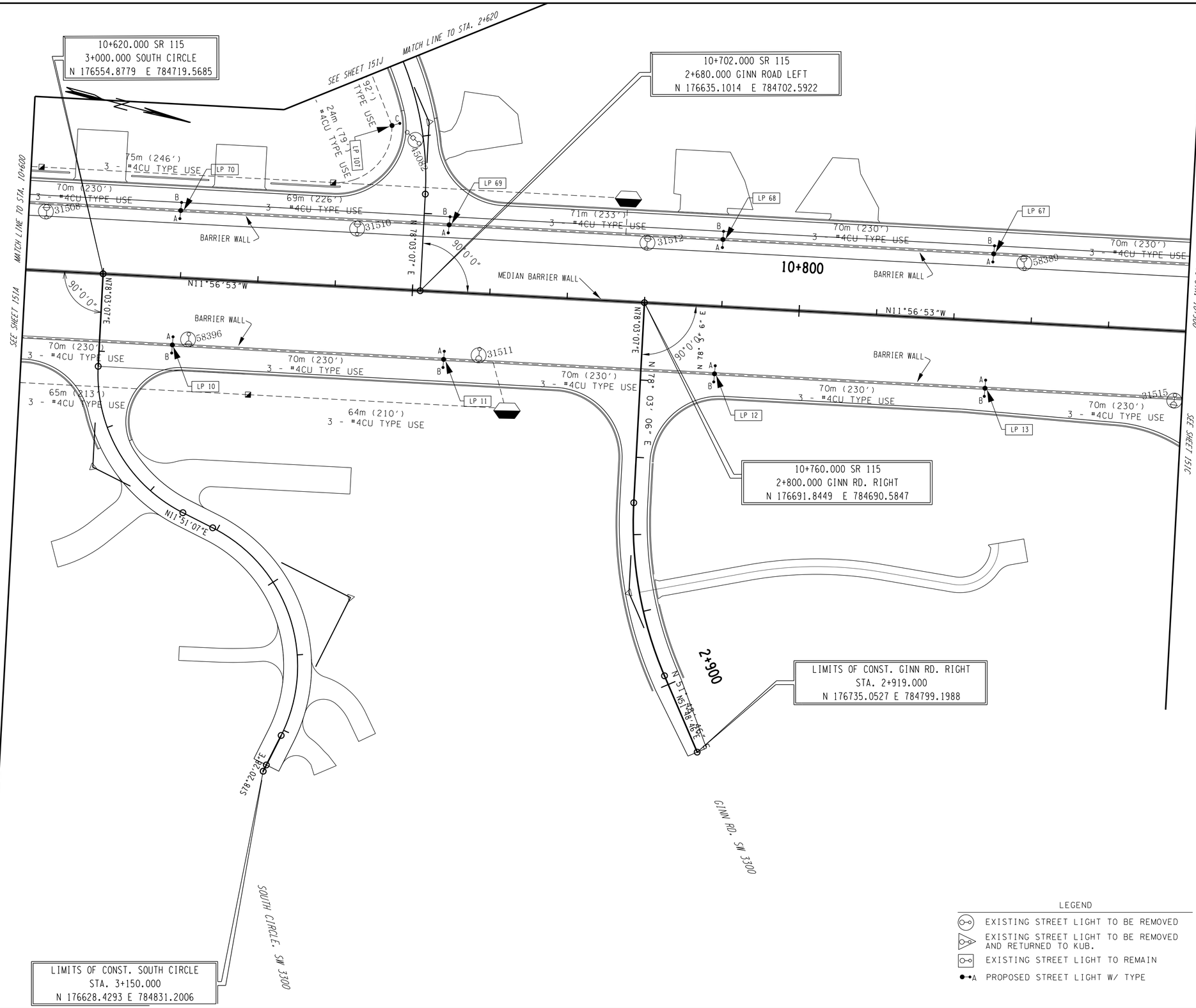
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

STA. 10+300 - STA. 10+600
STA. 1+220 - STA. 1+503
STA. 1+720 - STA. 1+764.829
STA.2+000 - STA. 2+260

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151B



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- EXISTING STREET LIGHT TO REMAIN
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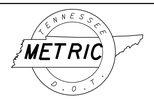
SEALED BY



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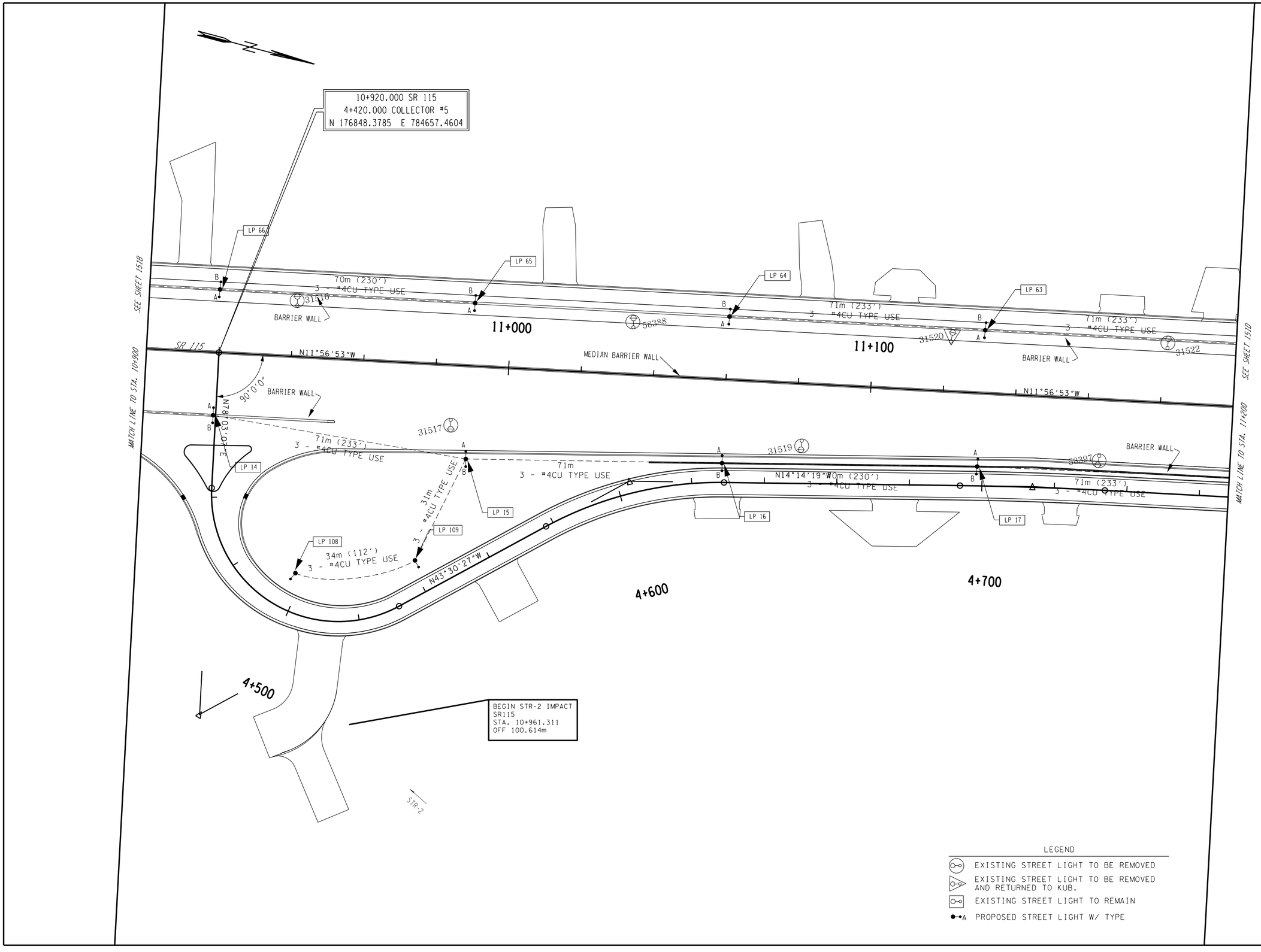
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

STA.10+600 - STA.10+900
STA.2+620 - STA.2+680
STA.2+800 - STA.2+919
STA.3+000 - STA.3+150

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151C



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SEALED BY

METRIC

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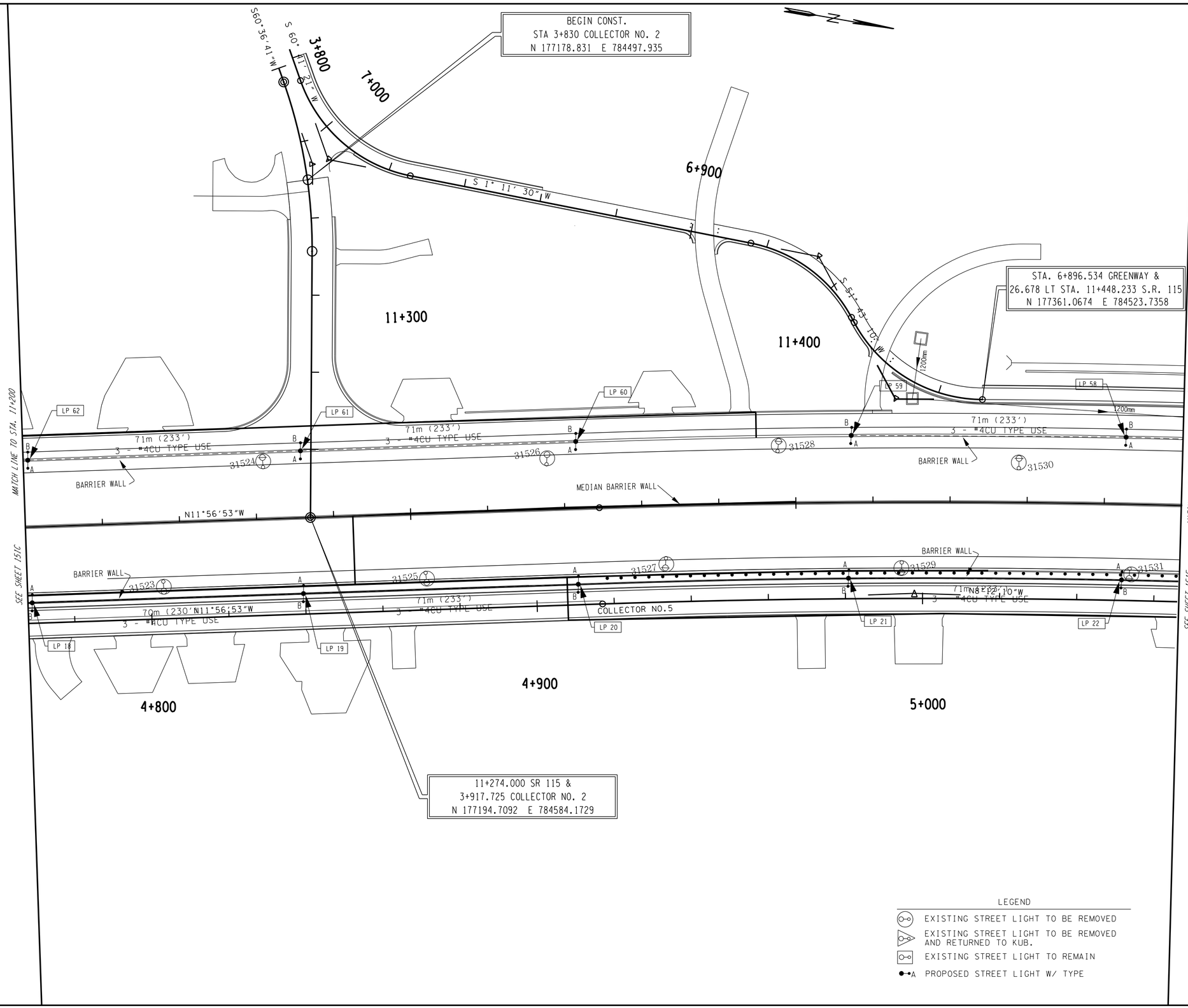
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

STA. 10+900 - STA. 11+200
STA. 4+420 - STA. 4+768

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151D



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- A PROPOSED STREET LIGHT W/ TYPE

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TENNESSEE D.O.T. METRIC

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

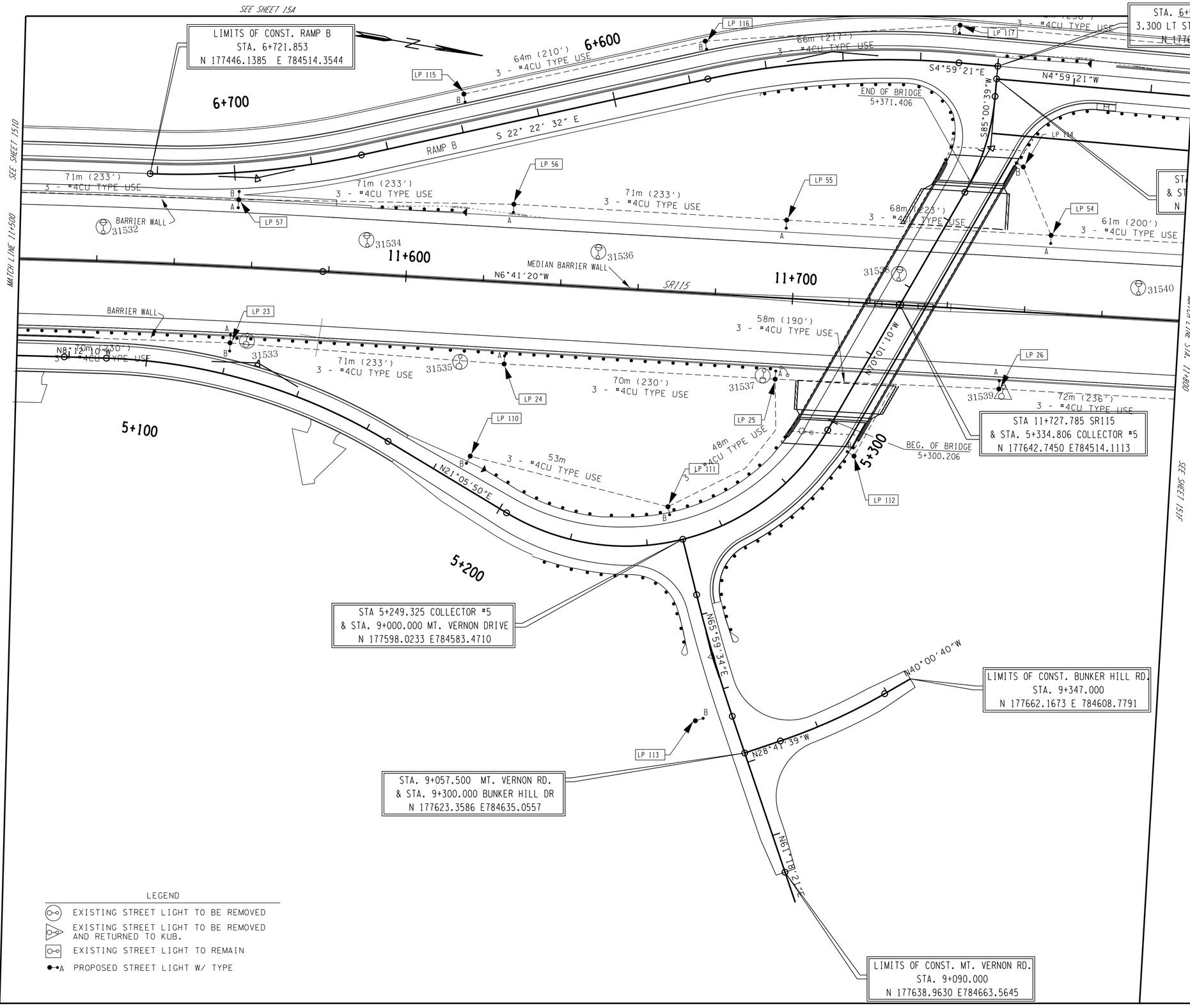
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

STA. 11+200 - STA. 11+500
STA. 3+800 - STA. 4+917.725

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151E



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SEALED BY

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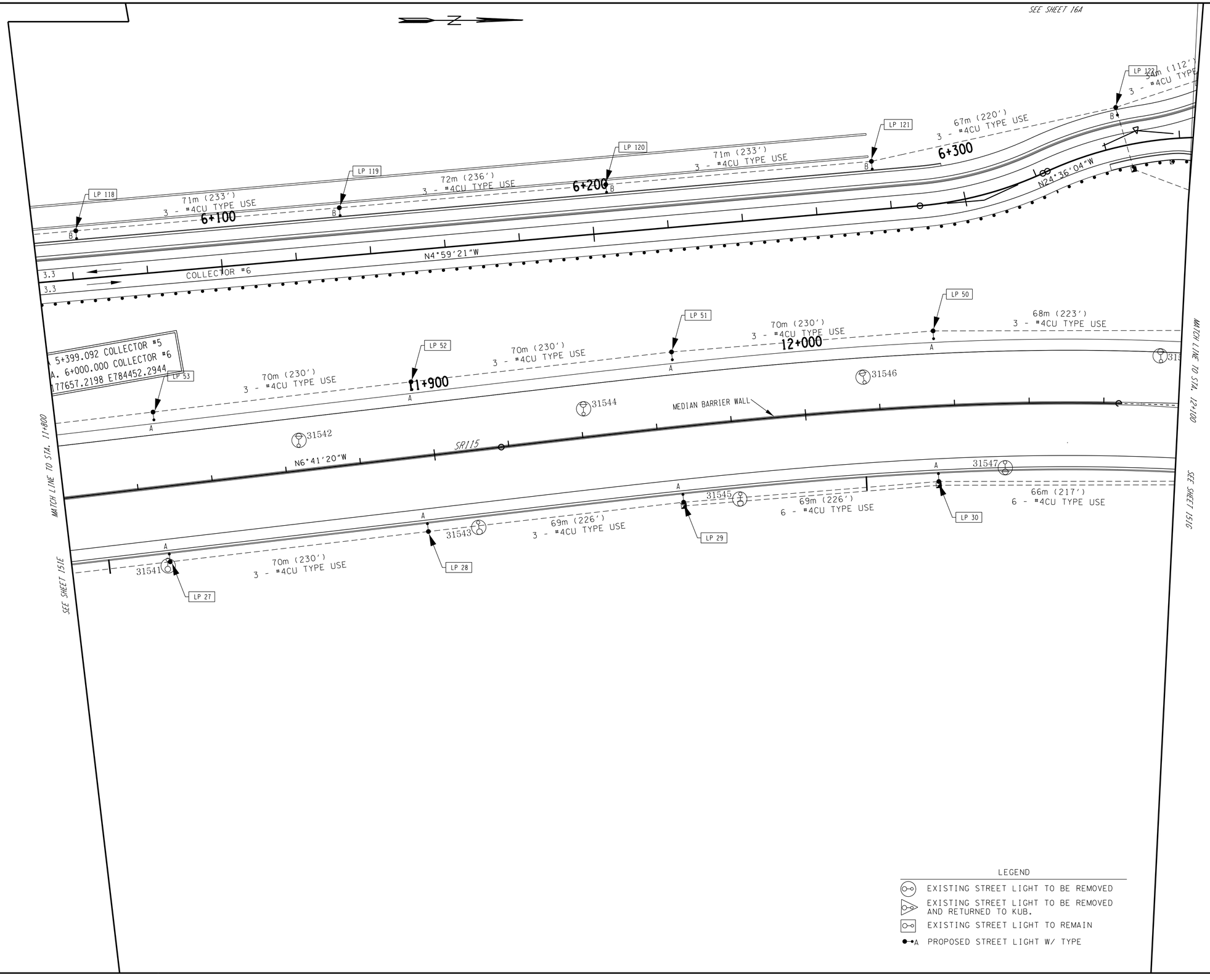
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

STA. 11+500 - STA. 11+800
STA. 5+067 - STA. 5+399.092
STA. 6+500 - STA. 6+755
STA. 9+000 - STA. 9+090
STA. 9+300 - STA. 9+347
STA. 6+000 - STA. 6+050
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151F



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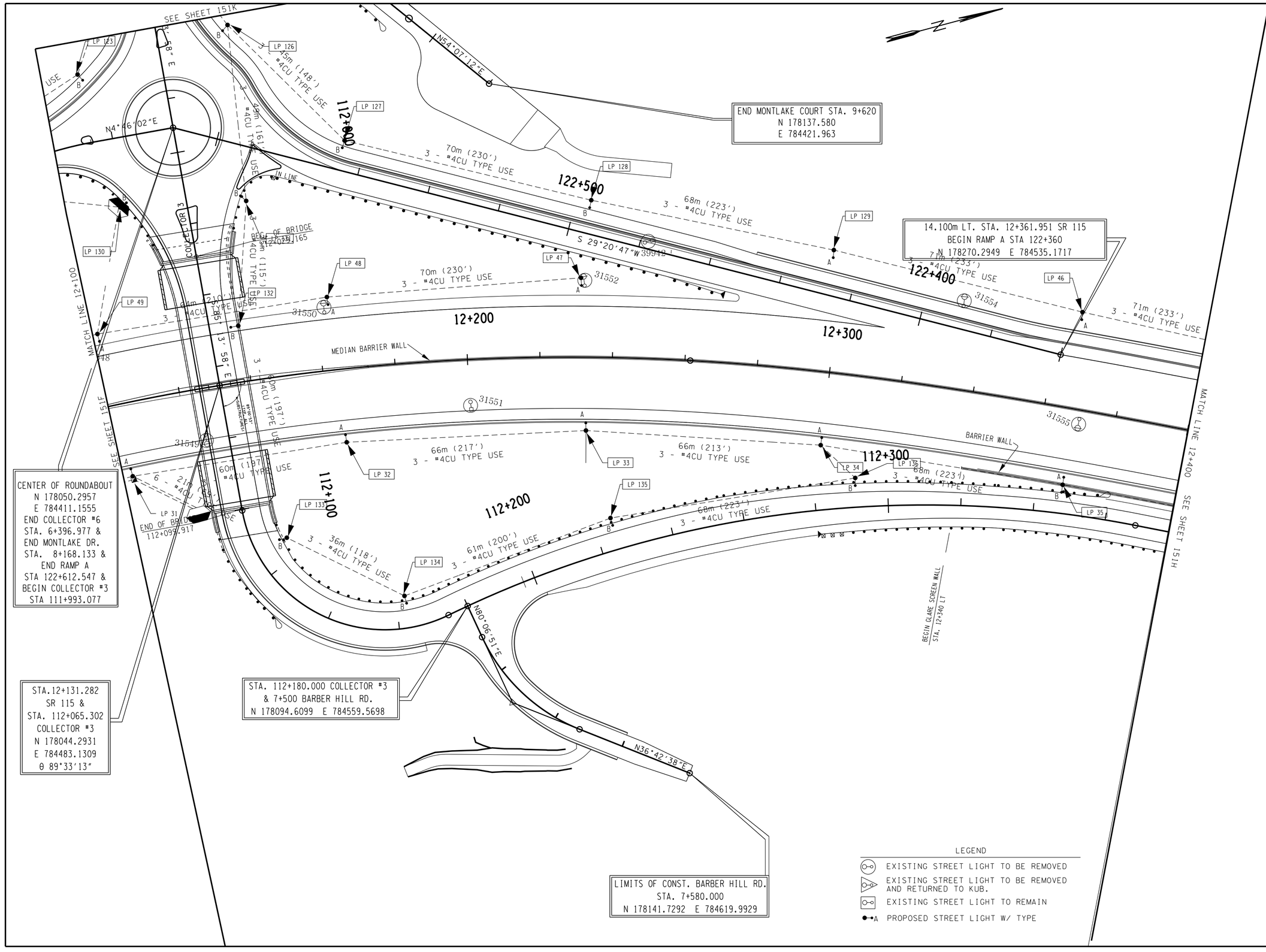
LIGHTING LAYOUT

STA. 11+800 - STA. 12+100
STA. 6+050 - STA. 6+360

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151G



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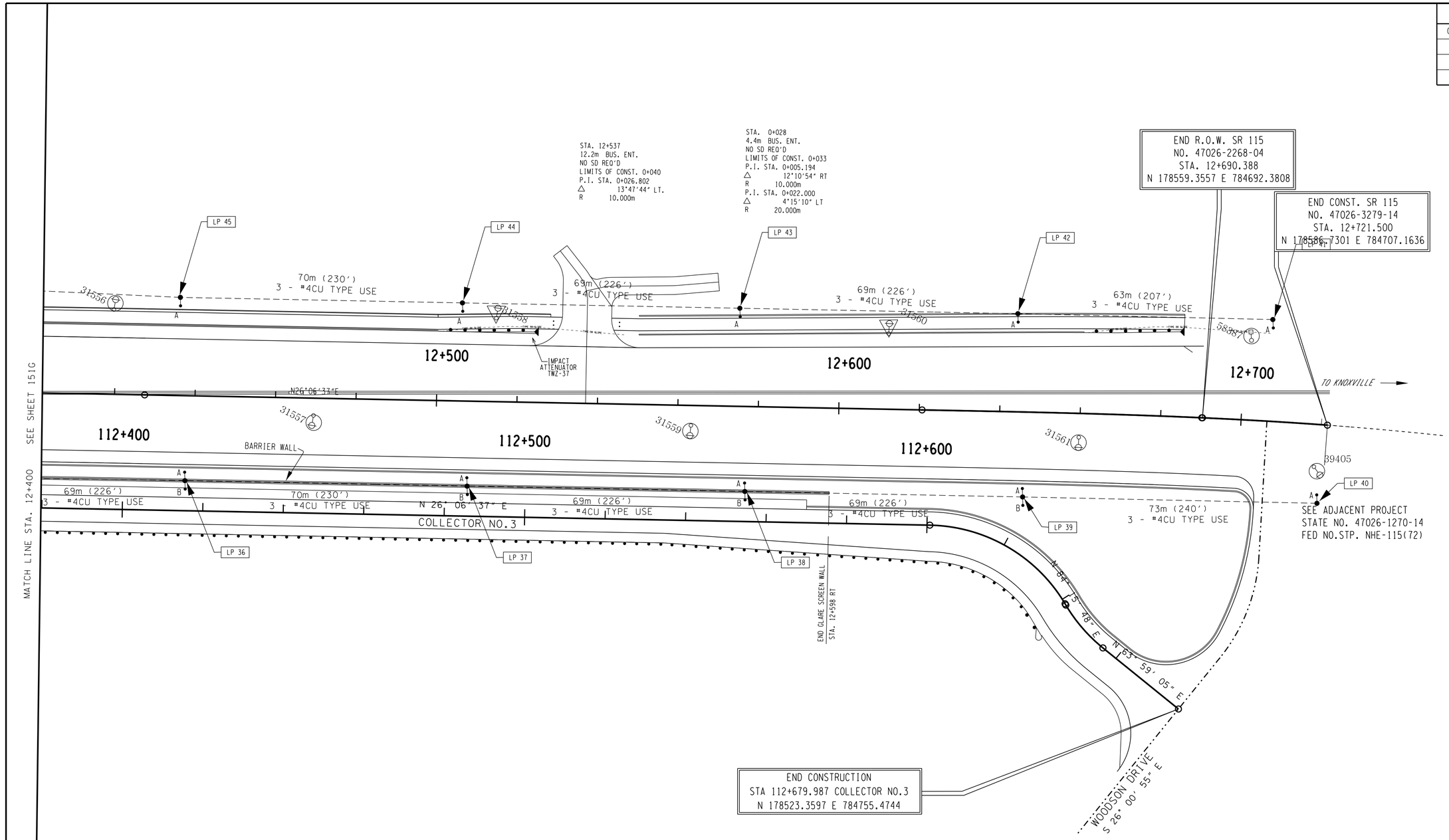
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

STA.12+100 - STA. 12+400
STA. 112+004.931 - STA. 112+378
STA.122+360 - STA. 122+609.219
STA. 7+500 - STA. 7+580
STA. 6+360 - STA. 6+393.231
STA. 9+585 - STA. 9+620
SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151H



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STATE OF TENNESSEE
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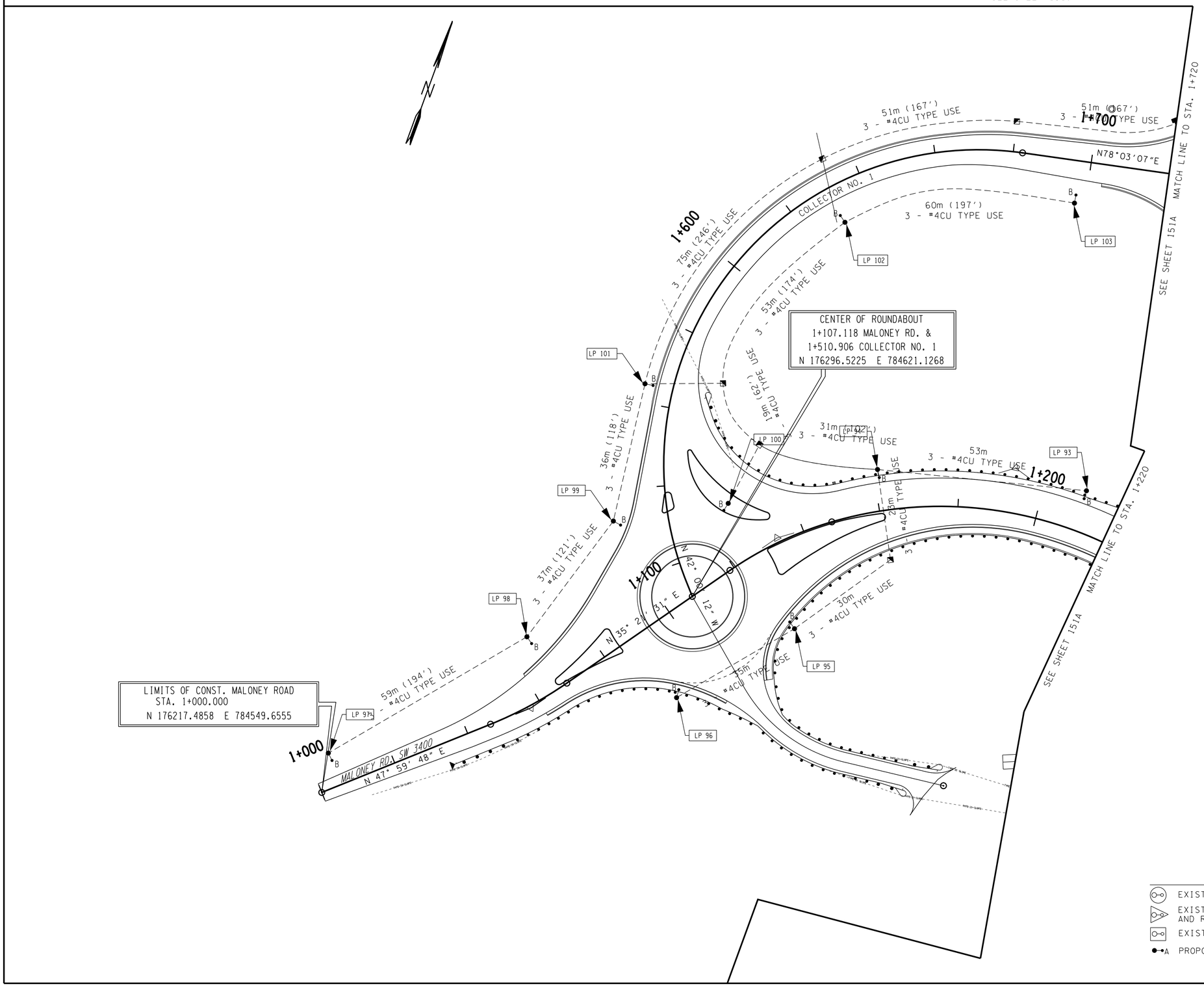
LIGHTING LAYOUT

STA.12+400 - STA.12+690.388
STA.112+140 - STA.112+682.847

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151I



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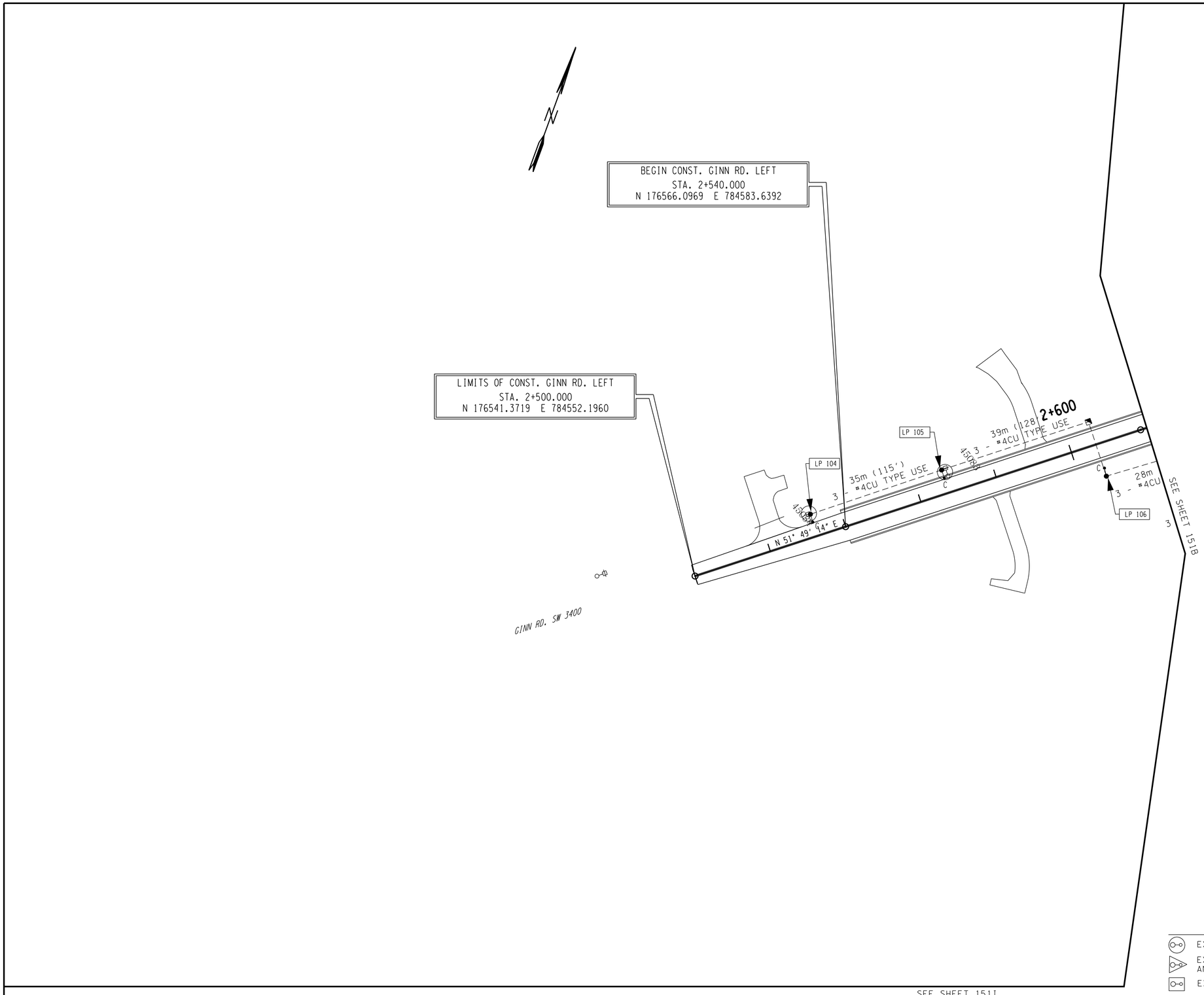
LIGHTING LAYOUT

STA.1+000 - STA. 1+220
STA.1+512.857 - STA.1+720

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151J



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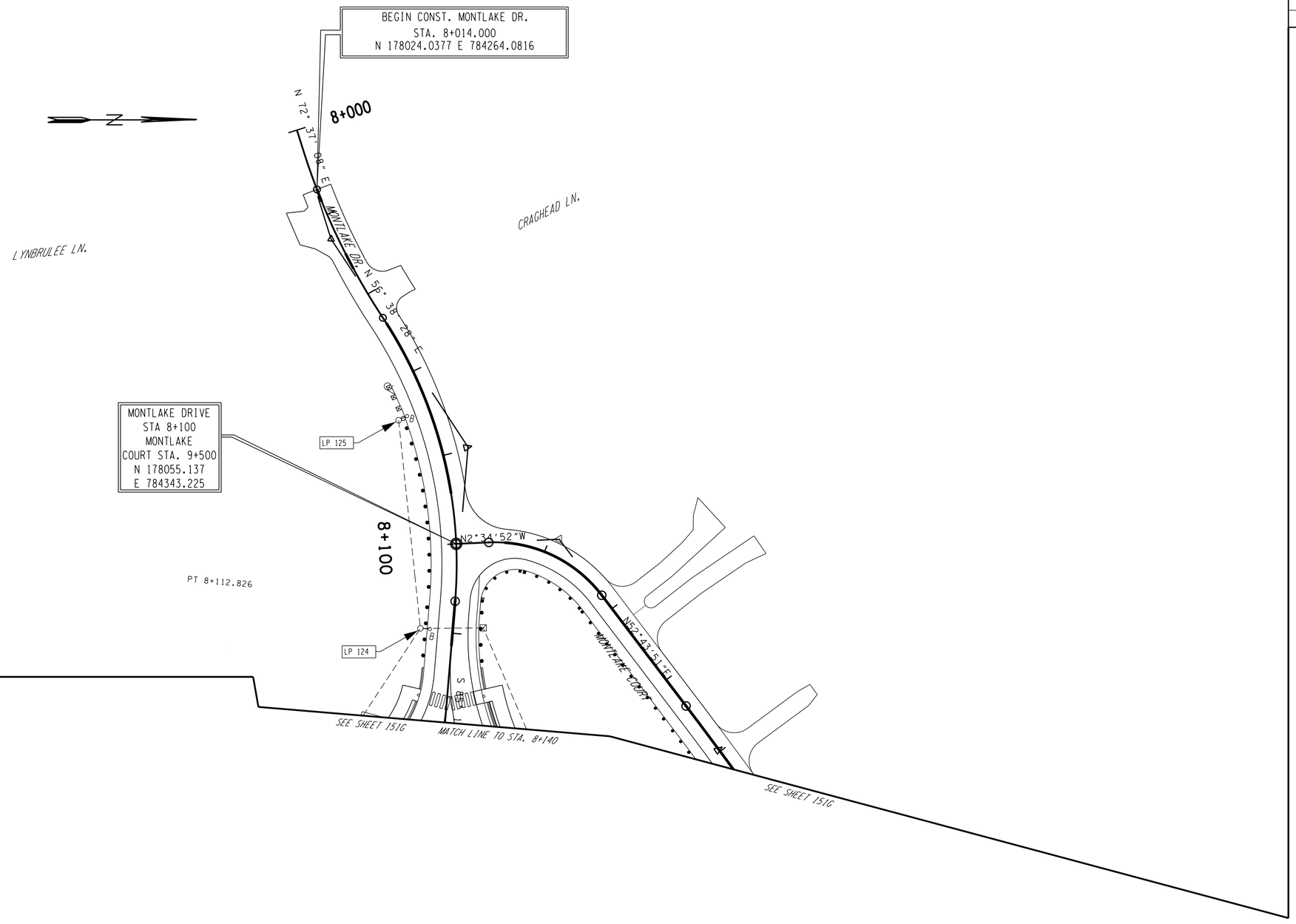
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

STA. 2+500 - STA. 2+620

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151K



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LIGHTING LAYOUT

STA. 8+014 - STA. 8+140
STA.9+500 - STA.9+585

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151L

LUMINAIRE AND POLE DATA

LIGHT POLE NO.	SHEET NO.	LUMINAIRE TYPE	KUB NUMBER	NO. OF LUMINAIRES	MOUNTING HEIGHT	BASELINE	STATION	OFFSET	SIDE	CONTROL CENTER	CIRCUIT NO.	VOLTAGE	
LP 1	151	A		1	13.7m / 45'	S.R. 115	10+028.79	21.2	RT		CC613-1	240	
LP 2	151	A		1	13.7m / 45'	S.R. 115	10+098.75	20.9	RT		CC613-1	240	
LP 3	151	A		1	13.7m / 45'	S.R. 115	10+167.33	23.0	RT		CC613-1	240	
LP 4	151	A		1	13.7m / 45'	S.R. 115	10+233.71	25.9	RT		CC613-1	240	
LP 5	151	A		1	13.7m / 45'	S.R. 115	10+296.92	28.0	RT		CC613-1	240	
LP 6	151A	A / B		2	13.7m / 45'	S.R. 115	10+363.80	BARRIER WALL	RT		CC613-1	240	
LP 7	151A	A / B		2	13.7m / 45'	S.R. 115	10+420.91	BARRIER WALL	RT		CC613-1	240	
LP 8	151A	A / B		2	13.7m / 45'	S.R. 115	10+497.39	BARRIER WALL	RT		CC613-1	240	
LP 9	151A	A / B		2	13.7m / 45'	S.R. 115	10+568.78	BARRIER WALL	RT		CC613-1	240	
LP 10	151B	A / B		2	13.7m / 45'	S.R. 115	10+638.84	BARRIER WALL	RT		CC613-1	240	
LP 11	151B	A / B		2	13.7m / 45'	S.R. 115	10+709.01	BARRIER WALL	RT		CC613-1	240	
LP 12	151B	A / B		2	13.7m / 45'	S.R. 115	10+779.04	BARRIER WALL	RT		CC613-2	240	
LP 13	151B	A / B		2	13.7m / 45'	S.R. 115	10+848.98	BARRIER WALL	RT		CC613-2	240	
LP 14	151C	A / B		2	13.7m / 45'	S.R. 115	10+919.31	BARRIER WALL	RT		CC613-2	240	
LP 15	151C	A / B		2	13.7m / 45'	S.R. 115	10+989.43	25.7	RT		CC613-2	240	
LP 16	151C	A / B		2	13.7m / 45'	S.R. 115	11+060.14	BARRIER WALL	RT		CC613-2	240	
LP 17	151C	A / B		2	13.7m / 45'	S.R. 115	11+130.43	BARRIER WALL	RT		CC613-2	240	
LP 18	151D	A / B		2	13.7m / 45'	S.R. 115	11+201.10	BARRIER WALL	RT		CC613-2	240	
LP 19	151D	A / B		2	13.7m / 45'	S.R. 115	11+271.52	BARRIER WALL	RT		CC613-2	240	
LP 20	151D	A / B		2	13.7m / 45'	S.R. 115	11+342.86	BARRIER WALL	RT		CC613-2	240	
LP 21	151D	A / B		2	13.7m / 45'	S.R. 115	11+413.48	BARRIER WALL	RT		CC615-1	240	
LP 22	151D	A / B		2	13.7m / 45'	S.R. 115	11+484.89	BARRIER WALL	RT		CC615-1	240	
LP 23	151E	A / B		2	13.7m / 45'	S.R. 115	11+555.43	BARRIER WALL	RT		CC615-1	240	
LP 24	151E	A		1	13.7m / 45'	S.R. 115	11+626.64	21.1	RT		CC615-1	240	
LP 25	151E	A		1	13.7m / 45'	S.R. 115	11+696.75	21.1	RT		CC615-1	240	
LP 26	151E	A		1	13.7m / 45'	S.R. 115	11+754.55	20.1	RT		CC615-1	240	
LP 27	151F	A		1	13.7m / 45'	S.R. 115	11+826.29	20.3	RT		CC615-1	240	
LP 28	151F	A		1	13.7m / 45'	S.R. 115	11+895.96	20.3	RT		CC615-1	240	
LP 29	151F	A		1	13.7m / 45'	S.R. 115	11+965.01	20.1	RT		CC615-2	240	
LP 30	151F	A		1	13.7m / 45'	S.R. 115	12+034.79	20.1	RT		CC615-2	240	
LP 31	151G	A		1	13.7m / 45'	S.R. 115	12+002.65	20.3	RT		CC615-2	240	
LP 32	151G	A		1	13.7m / 45'	S.R. 115	12+164.47	20.3	RT		CC615-2	240	
LP 33	151G	A		1	13.7m / 45'	S.R. 115	12+232.85	20.3	RT		CC615-2	240	
LP 34	151G	A		1	13.7m / 45'	S.R. 115	12+299.83	20.3	RT		CC615-2	240	
LP 35	151G	A / B		2	13.7m / 45'	S.R. 115	12+368.74	BARRIER WALL	RT		CC615-2	240	
LP 36	151H	A / B		2	13.7m / 45'	S.R. 115	12+437.88	BARRIER WALL	RT		CC615-2	240	
LP 37	151H	A / B		2	13.7m / 45'	S.R. 115	12+508.02	BARRIER WALL	RT		CC615-2	240	
LP 38	151H	A / B		2	13.7m / 45'	S.R. 115	12+577.05	BARRIER WALL	RT		CC615-2	240	
LP 39	151H	A / B		2	13.7m / 45'	S.R. 115	12+646.16	21.2	RT		CC615-2	240	
LP 40	151H	A		1	13.7m / 45'	S.R. 115	12+720.32	19.5	RT		CC615-2	240	
LP 41	151H	A		1	13.7m / 45'	S.R. 115	12+706.42	25.3	LT		CC614-2	240	
LP 42	151H	A		1	13.7m / 45'	S.R. 115	12+643.96	24.4	LT		CC614-2	240	
LP 43	151H	A		1	13.7m / 45'	S.R. 115	12+574.93	24.4	LT		CC614-2	240	
LP 44	151H	A		1	13.7m / 45'	S.R. 115	12+505.98	24.4	LT		CC614-2	240	
LP 45	151H	A		1	13.7m / 45'	S.R. 115	12+435.88	24.4	LT		CC614-2	240	
LP 46	151G	A		1	13.7m / 45'	S.R. 115	12+365.82	26.7	LT		CC614-2	240	
LP 47	151G	A		1	13.7m / 45'	S.R. 115	12+231.23	21.9	LT		CC614-1	240	
LP 48	151G	A		1	13.7m / 45'	S.R. 115	12+163.32	20.3	LT		CC614-1	240	
LP 49	151G	A		1	13.7m / 45'	S.R. 115	12+101.31	20.3	LT		CC614-1	240	
LP 50	151F	A		1	13.7m / 45'	S.R. 115	12+035.21	20.3	LT		CC614-1	240	
LP 51	151F	A		1	13.7m / 45'	S.R. 115	11+966.04	20.3	LT		CC614-1	240	
LP 52	151F	A		1	13.7m / 45'	S.R. 115	11+895.99	20.3	LT		CC614-1	240	
LP 53	151F	A		1	13.7m / 45'	S.R. 115	11+826.41	20.3	LT		CC614-1	240	
LP 54	151E	A		1	13.7m / 45'	S.R. 115	11+765.73	20.3	LT		CC614-1	240	
LP 55	151E	A		1	13.7m / 45'	S.R. 115	11+697.31	20.3	LT		CC614-1	240	
LP 56	151E	A		1	13.7m / 45'	S.R. 115	11+626.75	20.3	LT		CC614-1	240	
LP 57	151E	A / B		2	13.7m / 45'	S.R. 115	11+555.87	BARRIER WALL	LT		CC614-1	240	
LP 58	151D	A / B		2	13.7m / 45'	S.R. 115	11+485.32	BARRIER WALL	LT		CC614-1	240	
LP 59	151D	A / B		2	13.7m / 45'	S.R. 115	11+414.49	BARRIER WALL	LT		CC614-1	240	
LP 60	151D	A / B		2	13.7m / 45'	S.R. 115	11+343.45	BARRIER WALL	LT		CC612-2	240	

LUMINAIRE TYPE:
A = COOPER NAVION LED (NVN-AE-03-E-U-SL4)
B = COOPER NAVION LED (NVN-AE-03-E-U-T3)
C = COOPER NAVION LED (NVN-AE-02-E-U-T3)

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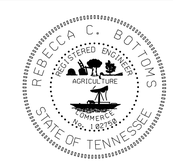

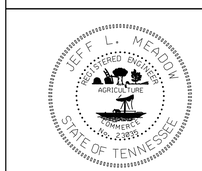

TENNESSEE METRIC D.O.T.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151M

LUMINAIRE AND POLE DATA

LIGHT POLE NO.	SHEET NO.	LUMINAIRE TYPE	KUB NUMBER	NO. OF LUMINAIRES	MOUNTING HEIGHT	BASELINE	STATION	OFFSET	SIDE	CONTROL CENTER	CIRCUIT NO.	VOLTAGE	
LP 61	151D	A / B		2	13.7m / 45'	S.R. 115	11+271.99	BARRIER WALL	LT		CC612-2	240	
LP 62	151D	A / B		2	13.7m / 45'	S.R. 115	11+201.22	BARRIER WALL	LT		CC612-2	240	
LP 63	151C	A / B		2	13.7m / 45'	S.R. 115	11+130.66	BARRIER WALL	LT		CC612-2	240	
LP 64	151C	A / B		2	13.7m / 45'	S.R. 115	11+060.07	BARRIER WALL	LT		CC612-2	240	
LP 65	151C	A / B		2	13.7m / 45'	S.R. 115	10+989.82	BARRIER WALL	LT		CC612-2	240	
LP 66	151C	A / B		2	13.7m / 45'	S.R. 115	10+919.37	BARRIER WALL	LT		CC612-2	240	
LP 67	151B	A / B		2	13.7m / 45'	S.R. 115	10+849.41	BARRIER WALL	LT		CC612-2	240	
LP 68	151B	A / B		2	13.7m / 45'	S.R. 115	10+779.40	BARRIER WALL	LT		CC612-2	240	
LP 69	151B	A / B		2	13.7m / 45'	S.R. 115	10+708.56	BARRIER WALL	LT		CC612-1	240	
LP 70	151B	A / B		2	13.7m / 45'	S.R. 115	10+639.14	BARRIER WALL	LT		CC612-1	240	
LP 71	151A	A / B		2	13.7m / 45'	S.R. 115	10+568.91	BARRIER WALL	LT		CC612-1	240	
LP 72	151A	A / B		2	13.7m / 45'	S.R. 115	10+497.27	BARRIER WALL	LT		CC612-1	240	
LP 73	151A	A / B		2	13.7m / 45'	S.R. 115	10+427.22	BARRIER WALL	LT		CC612-1	240	
LP 74	151A	A / B		2	13.7m / 45'	S.R. 115	10+367.26	BARRIER WALL	LT		CC612-1	240	
LP 75	151	A		1	13.7m / 45'	S.R. 115	10+298.93	27.9	LT		CC612-1	240	
LP 76	151	A		1	13.7m / 45'	S.R. 115	10+234.22	25.8	LT		CC612-1	240	
LP 77	151	A		1	13.7m / 45'	S.R. 115	10+166.71	23.5	LT		CC612-1	240	
LP 78	151	A		1	13.7m / 45'	S.R. 115	10+098.86	21.6	LT		CC612-1	240	
LP 79	151	A		1	13.7m / 45'	S.R. 115	10+028.50	19.2	LT		CC612-1	240	
LP 80	151	B		1	13.7m / 45'	DRESSER	2+317.59	10.1	LT		CC613-3	240	
LP 81	151A	B		1	13.7m / 45'	DRESSER	2+248.07	6.7	LT		CC613-3	240	
LP 82	151A	B		1	13.7m / 45'	MALONEY	1+392.15	16.0	RT		CC613-3	240	
LP 83		B		1	13.7m / 45'	MALONEY	1+488.24	9.8	LT		CC613-3	240	
LP 84	151A	B		1	13.7m / 45'	MALONEY	1+424.07	7.8	LT		CC613-3	240	
LP 85	151A	B		1	13.7m / 45'	MALONEY	1+390.75	20.3	LT		CC613-3	240	
LP 86	151A	B		1	13.7m / 45'	DRESSER	2+156.80	7.8	LT		CC613-3	240	
LP 87	151A	B		1	13.7m / 45'	DRESSER	2+106.96	9.8	LT		CC613-3	240	
LP 88	151A	B		1	13.7m / 45'	DRESSER	2+065.65	10.4	LT		CC613-3	240	
LP 89	151A	B		1	13.7m / 45'	MALONEY	1+354.82	18.7	RT		CC613-3	240	
LP 90	151A	B		1	13.7m / 45'	MALONEY	1+352.67	16.0	LT		CC613-3	240	
LP 91	151A	B		1	13.7m / 45'	MALONEY	1+325.86	11.4	LT		CC613-3	240	
LP 92	151A	B		1	13.7m / 45'	MALONEY	1+264.91	BRIDGE	LT		CC613-3	240	
LP 93	151I	B		1	13.7m / 45'	MALONEY	1+209.81	10.5	LT		CC612-3	240	
LP 94	151I	B		1	13.7m / 45'	MALONEY	1+161.04	10.5	LT		CC612-3	240	
LP 95	151I	B		1	13.7m / 45'	MALONEY	1+125.43	21.3	RT		CC612-3	240	
LP 96	151I	B		1	13.7m / 45'	MALONEY	1+089.20	18.9	RT		CC612-3	240	
LP 97	151I	B		1	13.7m / 45'	MALONEY	1+005.30	8.7	LT		CC612-3	240	
LP 98	151I	B		1	13.7m / 45'	MALONEY	1+066.40	15.4	LT		CC612-3	240	
LP 99	151I	B		1	13.7m / 45'	COL-1	1+533.17	13.9	LT		CC612-3	240	
LP 100	151I	B		1	13.7m / 45'	COL-1	1+533.14	15.5	RT		CC612-3	240	
LP 101	151I	B		1	13.7m / 45'	COL-1	1+564.46	7.2	LT		CC612-3	240	
LP 102	151I	B		1	13.7m / 45'	COL-1	1+630.81	9.8	RT		CC612-3	240	
LP 103	151I	B		1	13.7m / 45'	COL-1	1+697.22	10.8	RT		CC612-3	240	
LP 104	151J	C		1	13.7m / 45'	GINN-LT	2+532.54	KUB POLE	LT			240	
LP 105	151J	C		1	13.7m / 45'	GINN-LT	2+567.48	KUB POLE	LT			240	
LP 106	151J	C		1	13.7m / 45'	GINN-LT	2+606.51	KUB POLE	RT			240	
LP 107	151B	C		1	13.7m / 45'	GINN-LT	2+635.81	KUB POLE	RT			240	
LP 108	151C	B		1	13.7m / 45'	COL-5	4+496.70	10.4	LT			240	
LP 109	151C	B		1	13.7m / 45'	COL-5	4+541.56	9.0	LT		CC613-2	240	
LP 110	151E	B		1	13.7m / 45'	COL-5	5+186.50	7.6	LT		CC615-1	240	
LP 111	151E	B		1	13.7m / 45'	COL-5	5+247.35	9.0	LT		CC615-1	240	
LP 112	151E	B		1	13.7m / 45'	COL-5	5+295.38	9.3	RT		CC615-1	240	
LP 113	151E	B		1	13.7m / 45'	MTVERN	9+045.58	9.4	RT		CC615-1	240	
LP 114	151E	B		1	13.7m / 45'	COL-5	5+379.62	11.0	RT		CC614-1	240	
LP 115	151E	B		1	13.7m / 45'	RAMPB	6+637.70	9.8	RT		CC614-2	240	
LP 116	151E	B		1	13.7m / 45'	RAMPB	6+573.93	9.8	RT		CC614-2	240	
LP 117	151E	B		1	13.7m / 45'	RAMPB	6+510.60	9.8	RT		CC614-2	240	
LP 118	151F	B		1	13.7m / 45'	COL-6	6+061.78	13.0	LT		CC614-2	240	
LP 119	151F	B		1	13.7m / 45'	COL-6	6+132.67	13.0	LT		CC614-2	240	
LP 120	151F	B		1	13.7m / 45'	COL-6	6+204.35	13.0	LT		CC614-2	240	

LUMINAIRE TYPE:
A = COOPER NAVION LED (NVN-AE-03-E-U-SL4)
B = COOPER NAVION LED (NVN-AE-03-E-U-T3)
C = COOPER NAVION LED (NVN-AE-02-E-U-T3)

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TENNESSEE METRIC D.O.T.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151N

LUMINAIRE AND POLE DATA

LIGHT POLE NO.	SHEET NO.	LUMINAIRE TYPE	KUB NUMBER	NO. OF LUMINAIRES	MOUNTING HEIGHT	BASELINE	STATION	OFFSET	SIDE	CONTROL CENTER	CIRCUIT NO.	VOLTAGE	
LP 121	151F	B		1	13.7m / 45'	COL-6	6+275.79	13.0	LT		CC614-2	240	
LP 122	151F	B		1	13.7m / 45'	COL-6	6+344.97	10.5	LT		CC614-2	240	
LP 123	151G	B		1	13.7m / 45'	COL-6	6+373.81	19.1	LT		CC614-2	240	
LP 124	151K	B		1	13.7m / 45'	MTLAKE	8+119.51	7.2	RT		CC614-2	240	
LP 125	151K	B		1	13.7m / 45'	MTLAKE	8+069.17	7.2	RT		CC614-2	240	
LP 126	151G	B		1	13.7m / 45'	MTLAKE	8+142.93	19.8	LT		CC614-2	240	
LP 127	151G	B		1	13.7m / 45'	RAMPA	122+565.88	8.2	RT		CC614-2	240	
LP 128	151G	B		1	13.7m / 45'	RAMPA	122+495.89	9.1	RT		CC614-2	240	
LP 129	151G	A		1	13.7m / 45'	RAMPA	122+427.70	12.5	RT		CC614-2	240	
LP 130	151G	B		1	13.7m / 45'	COL-3	112+012.13	18.1	RT		CC614-2	240	
LP 131	151G	B		1	13.7m / 45'	COL-3	112+016.51	16.2	LT		CC614-2	240	
LP 132	151G	B		1	13.7m / 45'	COL-3	112+050.02	7.0	LT		CC614-2	240	
LP 133	151G	B		1	13.7m / 45'	COL-3	112+113.00	9.3	LT		CC615-2	240	
LP 134	151G	B		1	13.7m / 45'	COL-3	112+162.95	8.8	LT		CC615-2	240	
LP 135	151G	B		1	13.7m / 45'	COL-3	112+224.78	8.8	LT		CC615-2	240	
LP 136	151G	B		1	13.7m / 45'	COL-3	112+291.39	8.1	LT		CC615-2	240	

LUMINAIRE TYPE:
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B = COOPER NAVION LED (NVN-AE-03-E-U-T3)
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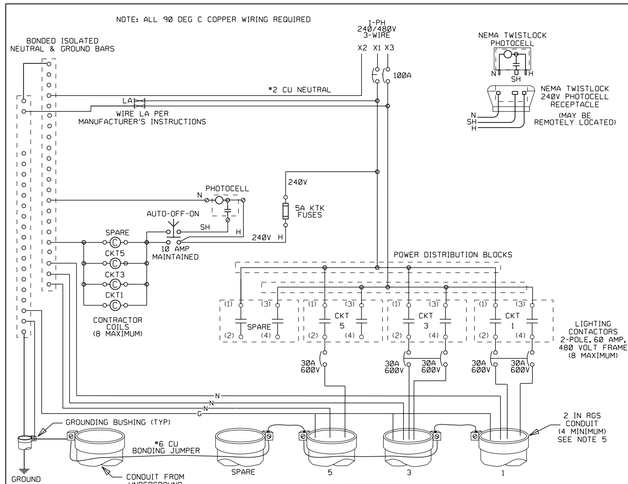
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING
LAYOUT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	1510

NOTE: ALL 90 DEG C COPPER WIRING REQUIRED



LIGHTING CONTROL CABINET SCHEMATIC
(8) CIRCUITS MAXIMUM

CONTROL CABINET WIRING NOTES:

1. SEE SHEET 2 FOR CONTROL CABINET DETAILS, FOUNDATION DETAILS, MATERIAL REQUIREMENTS, AND NOTES.
2. CONTACT KUB FOR CONTROL CABINET NUMBER TO BE INSTALLED ON ALL CABINETS.
3. KUB SHALL BE CONTACTED TO MAKE FINAL CONNECTIONS TO POWER.
4. SUBMIT MFGR'S CUT SHEETS, CERTIFICATIONS, & WARRANTY INFORMATION ON ALL PROPOSED COMPONENTS TO BE USED IN CONTROL CABINET AND OBTAIN KUB APPROVAL PRIOR TO PURCHASING COMPONENTS.
5. FEEDER CIRCUITS NOT SHOWN ON THE PLANS SHALL NOT BE INSTALLED , BUT CONDUIT SHALL BE INSTALLED AND CAPPED 2 LF OUTSIDE CONCRETE FOUNDATION. ORIENTATION OF CAPPED CONDUITS PER KUB PROJECT REPRESENTATIVE.
6. APPLICABLE SECTIONS OF THE NEC SHALL APPLY TO THIS EQUIPMENT.
7. PRIOR TO ACCEPTANCE, A 48 HOUR CONTINUOUS BURN IN OF ALL COMPONENTS OF THE LIGHTING SYSTEM IS REQUIRED WITHOUT INTERRUPTION OR FAILURE ATTRIBUTABLE TO POOR WORKMANSHIP OR DEFECTIVE MATERIALS.
8. AFTER INSTALLATION IS COMPLETED AND PRIOR TO ACCEPTANCE, VOLTAGE TESTS, CURRENT TESTS, AND GROUNDING RESISTANCE TESTS SHALL BE SUCCESSFULLY PERFORMED ON THE LIGHTING SYSTEM IN THE PRESENCE OF KUB'S PROJECT REPRESENTATIVE. TEST REPORT FORMS WILL BE SUPPLIED BY KUB.
9. CONTRACTOR SHALL REMAIN LIABLE FOR ALL FACILITIES UNTIL FINAL LETTER OF ACCEPTANCE IS RECEIVED FROM KUB. FINAL LETTER OF ACCEPTANCE WILL HOLD CONTRACTOR LIABLE FOR ALL REPAIRS ATTRIBUTABLE TO POOR WORKMANSHIP OR DEFECTIVE MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATED LETTER OF FINAL ACCEPTANCE.
10. ALL FIELD CONDUCTORS SHALL BE COLOR CODED PER KUB STANDARD DWG-A-15688. COLOR CODING SHALL BE REQUIRED IN ALL ACCESSIBLE AREAS
11. UPON COMPLETION OF THE PROJECT, WARRANTIES OR GUARANTEES ON EQUIPMENT AND MATERIALS THAT ARE OFFERED BY THE MANUFACTURERS AS NORMAL TRADE PRACTICE AND HAVE NOT EXPIRED SHALL BE TURNED OVER TO KUB ALONG WITH COPIES OF PURCHASE ORDERS TO BACK RETURNS WARRANTIES.
12. EQUIPMENT SHALL BE RATED FOR 600 VOLT APPLICATIONS.

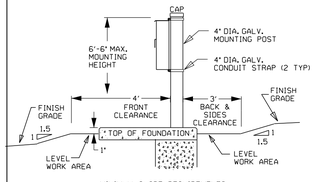
ALLOW SPACE FOR AN ADDITIONAL 2 CONTACTORS AND BREAKERS TO BE ADDED IN THE FUTURE.

REV.: 0	W.F.P.R:	EST.:	W.O.:	REV.: 2	W.F.P.R:	EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
REV.: 1	W.F.P.R:	EST.:	W.O.:	REV.: 3		EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
					GRID:		SCALE:

Knoxville Utilities Board
1 PH-240V/480V PH-TO-PH, 3-WIRE
ISOLATED NEUTRAL SYSTEM
CONTROL SCHEMATIC & CABINET
CP-#1 (600)

KUB
SHEET 1 OF 2
B-

#	QTY	DESCRIPTION	MATERIAL SPECIFICATIONS
1	1	SURGE SUPPRESSOR	IEEE C62.41 CATAGORY C, 250kA PER PHASE, 20kV/10kA SURGE CURRENT, NEMA LS-1
2	1	MAIN CIRCUIT BREAKER	100 AMP, 2 POLE, 240/480 VOLT AC, MOLDED CASE, THERMAL-MAGNETIC, FACTORY SEALED, 35kA IR @ 480 VOLTS. *2 CU LINE SIDE LUGS
4A	1	FUSE	5 AMP, KTK, 600V, 100K AIC RMS SYMMETRICAL, NON-RENEWABLE
4B	1	FUSEHOLDER	30 AMP, 1 POLE, 600 VAC, BOX LUG, KTK TYPE FUSE
5	1	TERMINAL BLOCK	600 VAC, 3 POSITION, FOR 120V EXTERNAL PE CONNECTIONS
6	1	SELECTOR SWITCH	10 AMP, MAINTAINED, 3 POSITION, 30 MM, NEMA 1 SURFACE MOUNTING, HAND-OFF-AUTO LEGEND PLATE, STANDARD KNOB, BLACK
7	2	POWER DISTRIBUTION BLOCK/S	2/0-12 MAIN SIDE, 4-14 SECONDARY SIDE
8	4	CONTACTOR	2 POLE, 480V AC, 60 AMP, WITH 120 VOLT COIL, MAGNETICALLY HELD CONTACTS OPEN WHEN COIL IS DEENERGIZED
9	6	FEEDER CIRCUIT BREAKER	2-15AMP, 2-30 AMP, 2 POLE, 240/480 VOLT AC, MOLDED CASE, THERMAL-MAGNETIC, FACTORY SEALED, 35kA IR @ 480V. *4 CU LOAD SIDE LUGS
10	1	NEUTRAL BAR (BONDED)	24 PLCS MIN: *14-*1/0 STRANDED COPPER CONDUCTORS
11	1	GND BAR	16 PLCS MIN: *14-*1/0 STRANDED COPPER CONDUCTORS
12	1	ENCLOSURE	NEMA 3R, STAINLESS STEEL, MINIMUM 30" W X 36" LG X 10" DEEP, CONTINUOUS PAD-LOCKABLE HANDLE, METAL SUBPLATE, DRIP SHIELD, SS HINGE, EXTERNAL MOUNTING FEET. SEE CONTROL CABINET & WIRING NOTE 2.

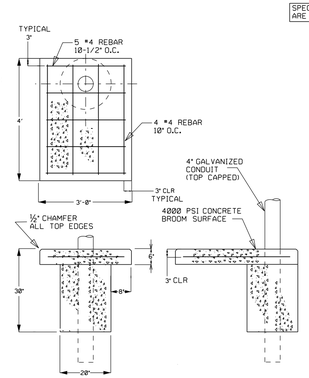


MINIMUM SLOPE REQUIREMENTS FOR LIGHTING CONTROL CABINET

EQUIPMENT AND FOUNDATION SHALL NOT BE INSTALLED IN LOW LYING AREAS SUCH AS WET WEATHER CREEK BEDS, WATER DETENSION AREAS, OR DRAINAGE DITCHES.

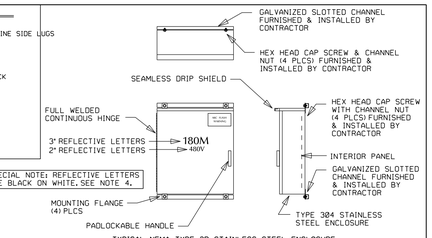
CONTROL CABINET FOUNDATION NOTES:

1. CONTACT KUB 3 DAYS IN ADVANCE OF INSTALLATION TO ARRANGE FOR INSPECTIONS.
2. TYPICAL FOUNDATION MINIMUM REQUIREMENTS ARE SHOWN. FOR LIMITED SPACE RESTRICTIONS AND ELEVATIONAL PROBLEMS CONTACT KUB ENGINEERING.
3. ALL CONDUITS MUST BE IN PLACE AND INSTALLATION SHALL HAVE PASSED A KUB INSPECTION BEFORE POURING CONCRETE. FAILURE TO HAVE INSTALLATION INSPECTED BEFORE POURING CONCRETE WILL RESULT IN REJECTION OF THE WORK DONE, AND THE REMOVAL OF ALL SUCH WORK WILL BE REQUIRED AT NO ADDITIONAL EXPENSE.
4. INSTALL CONDUIT IN ORIENTATION, QUANTITIES, TYPES, AND SIZES TO THE PLAN SHEETS AND DETAIL SHEETS. STUB OUT AND CAP EACH CONDUIT 2 INCHES ABOVE TOP OF FOUNDATION. PLACE CONDUIT 30 INCHES BENEATH FINISH GRADE.
5. ALL CONDUIT TO UTILIZE LARGE SWEEP RADII (MINIMUM 24" RADIUS) GROUND RODS AND GROUNDING NOT SHOWN.
6. CONTRACTOR TO INSTALL NUMBER OF GROUND RODS REQUIRED TO ACHIEVE MINIMUM OF 25 OHMS RESISTANCE. A MINIMUM OF 1 GROUND ROD REQUIRED.



FOUNDATION

ELECTRICAL CONDUITS, AND GROUNDING MATERIALS NOT SHOWN. SEE CONROL CABINET FOUNDATION NOTES 3 & 4.

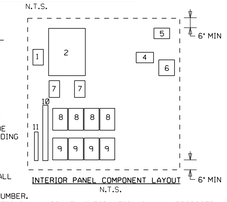


SPECIAL NOTE: REFLECTIVE LETTERS ARE BLACK ON WHITE. SEE NOTE 4.

TYPICAL NEMA TYPE 3R STAINLESS STEEL ENCLOSURE

CONTROL CABINET & WIRING NOTES:

1. THE CABINET IS TO BE SITUATED IN THE OPTIMUM POSITION FOR VIEWING THE CONTROLLER OPERATION AND THE STREET LIGHTS SIMULTANEOUSLY.
2. PROVIDE ARC FLASH LABEL PER NEC 110.16; NFPA 70E.
3. WIRE BENDING RADIUS SHALL CONFORM TO NEC 312.6. MANUFACTURER SHALL INSURE THAT FIELD CONDUCTORS (*1/0 CU/AL LINE SIDE CONDUCTORS) AND *2 THROUGH *6 COPPER (LOAD SIDE CONDUCTORS) HAVE ADEQUATE WIRE BENDING SPACE. FAILURE TO PROVIDE ADEQUATE WIRE BENDING SPACE SHALL BE CAUSE FOR PRODUCT REJECTION.
4. OTHER APPLICABLE SECTIONS OF THE NEC NOT SPECIFICALLY MENTIONED SHALL APPLY TO THIS EQUIPMENT.
5. CONTACT KUB FOR CONTROL CABINET NUMBER.
6. SUBMIT MFGR'S CUT SHEETS, CERTIFICATIONS, & WARRANTY INFORMATION ON ALL PROPOSED COMPONENTS TO BE USED IN CONTROL CABINET AND OBTAIN KUB APPROVAL PRIOR TO PURCHASING COMPONENTS.
7. *4 SOLID COPPER GROUND WIRE SHALL BE CONTINUOUS FROM THE GROUND BAR TO THE 5/8" COPPERWELD GROUND ROD.
8. NEUTRAL BAR SHALL BE ISOLATED FROM THE PANEL WITH A BONDING JUMPER TO THE GROUND BAR.
9. A MINIMUM OF (4) 2" GALV CONDUITS FOR FEEDER CIRCUITRY SHALL BE INSTALLED AND ALL SPARES SHALL BE CAPPED 2 LF OUTSIDE CONTRETE FOUNDATION.
10. INSTALL A GROUNDING BUSHING ON EACH CONDUIT. CONNECT BONDING JUMPER AS REQUIRED BY NEC.
11. FROM SUBPANEL, PROVIDE MANUFACTURER SUPPLIED MOUNTING BRACKETS OR SCREW STUDS PERMANENTLY ATTACHED TO THE BACK PANEL FOR MOUNTING COMPONENTS.



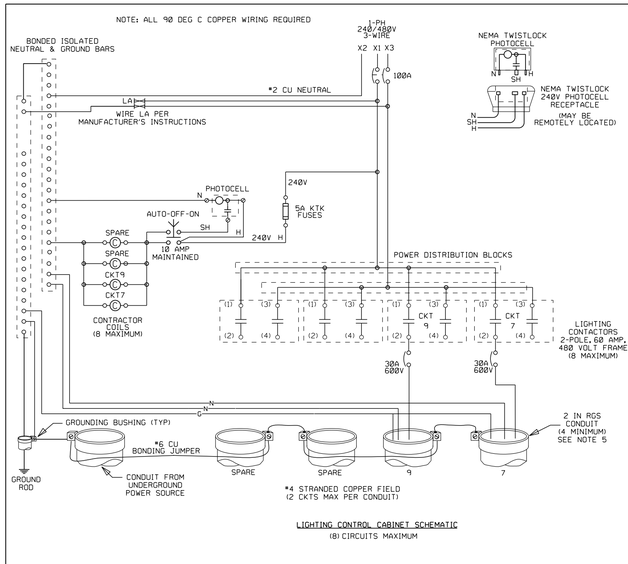
INTERIOR PANEL COMPONENT LAYOUT
N.T.S.

REV.: 0	W.F.P.R:	EST.:	W.O.:	REV.: 2	W.F.P.R:	EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
REV.: 1	W.F.P.R:	EST.:	W.O.:	REV.: 3		EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
					GRID:		SCALE:

Knoxville Utilities Board
1 PH-120V/208V PH-TO-PH, 3-WIRE
ISOLATED NEUTRAL SYSTEM
CONTROL SCHEMATIC & CABINET
CP-#1 (506)

KUB
SHEET 2 OF 2
B-

NOTE: ALL 90 DEG C COPPER WIRING REQUIRED



LIGHTING CONTROL CABINET SCHEMATIC
(8) CIRCUITS MAXIMUM

CONTROL CABINET WIRING NOTES:

1. SEE SHEET 2 FOR CONTROL CABINET DETAILS, FOUNDATION DETAILS, MATERIAL REQUIREMENTS, AND NOTES.
2. CONTACT KUB FOR CONTROL CABINET NUMBER TO BE INSTALLED ON ALL CABINETS.
3. KUB SHALL BE CONTACTED TO MAKE FINAL CONNECTIONS TO POWER.
4. SUBMIT MFGR'S CUT SHEETS, CERTIFICATIONS, & WARRANTY INFORMATION ON ALL PROPOSED COMPONENTS TO BE USED IN CONTROL CABINET AND OBTAIN KUB APPROVAL PRIOR TO PURCHASING COMPONENTS.
5. FEEDER CIRCUITS NOT SHOWN ON THE PLANS SHALL NOT BE INSTALLED , BUT CONDUIT SHALL BE INSTALLED AND CAPPED 2 LF OUTSIDE CONCRETE FOUNDATION. ORIENTATION OF CAPPED CONDUITS PER KUB PROJECT REPRESENTATIVE.
6. APPLICABLE SECTIONS OF THE NEC SHALL APPLY TO THIS EQUIPMENT.
7. PRIOR TO ACCEPTANCE, A 48 HOUR CONTINUOUS BURN IN OF ALL COMPONENTS OF THE LIGHTING SYSTEM IS REQUIRED WITHOUT INTERRUPTION OR FAILURE ATTRIBUTABLE TO POOR WORKMANSHIP OR DEFECTIVE MATERIALS.
8. AFTER INSTALLATION IS COMPLETED AND PRIOR TO ACCEPTANCE, VOLTAGE TESTS, CURRENT TESTS, AND GROUNDING RESISTANCE TESTS SHALL BE SUCCESSFULLY PERFORMED ON THE LIGHTING SYSTEM IN THE PRESENCE OF KUB'S PROJECT REPRESENTATIVE. TEST REPORT FORMS WILL BE SUPPLIED BY KUB.
9. CONTRACTOR SHALL REMAIN LIABLE FOR ALL FACILITIES UNTIL FINAL LETTER OF ACCEPTANCE IS RECEIVED FROM KUB. FINAL LETTER OF ACCEPTANCE WILL HOLD CONTRACTOR LIABLE FOR ALL REPAIRS ATTRIBUTABLE TO POOR WORKMANSHIP OR DEFECTIVE MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATED LETTER OF FINAL ACCEPTANCE.
10. ALL FIELD CONDUCTORS SHALL BE COLOR CODED PER KUB STANDARD DWG-A-15688. COLOR CODING SHALL BE REQUIRED IN ALL ACCESSIBLE AREAS
11. UPON COMPLETION OF THE PROJECT, WARRANTIES OR GUARANTEES ON EQUIPMENT AND MATERIALS THAT ARE OFFERED BY THE MANUFACTURERS AS NORMAL TRADE PRACTICE AND HAVE NOT EXPIRED SHALL BE TURNED OVER TO KUB ALONG WITH COPIES OF PURCHASE ORDERS TO BACK RETURNS WARRANTIES.
12. EQUIPMENT SHALL BE RATED FOR 600 VOLT APPLICATIONS.

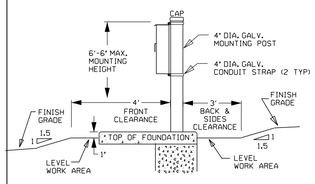
ALLOW SPACE FOR AN ADDITIONAL 2 CONTACTORS AND BREAKERS TO BE ADDED IN THE FUTURE.

REV.: 0	W.F.P.R:	EST.:	W.O.:	REV.: 2	W.F.P.R:	EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
REV.: 1	W.F.P.R:	EST.:	W.O.:	REV.: 3		EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
					GRID:		SCALE:

Knoxville Utilities Board
1 PH-120V/480V PH-TO-PH, 3-WIRE
ISOLATED NEUTRAL SYSTEM
CONTROL SCHEMATIC & CABINET
CP-#3 (602)

KUB
SHEET 1 OF 2
B-

#	QTY	DESCRIPTION	MATERIAL SPECIFICATIONS
1	1	SURGE SUPPRESSOR	IEEE C62.41 CATAGORY C, 250kA PER PHASE, 20kV/10kA SURGE CURRENT, NEMA LS-1
2	1	MAIN CIRCUIT BREAKER	100 AMP, 2 POLE, 240 VOLT AC, MOLDED CASE, THERMAL-MAGNETIC, FACTORY SEALED, 35kA IR @ 480 VOLTS. *2 CU LINE SIDE LUGS
4A	1	FUSE	5 AMP, KTK, 600V, 100K AIC RMS SYMMETRICAL, NON-RENEWABLE
4B	1	FUSEHOLDER	30 AMP, 1 POLE, 600 VAC, BOX LUG, KTK TYPE FUSE
5	1	TERMINAL BLOCK	600 VAC, 3 POSITION, FOR 120V EXTERNAL PE CONNECTIONS
6	1	SELECTOR SWITCH	10 AMP, MAINTAINED, 3 POSITION, 30 MM, NEMA 1 SURFACE MOUNTING, HAND-OFF-AUTO LEGEND PLATE, STANDARD KNOB, BLACK
7	2	POWER DISTRIBUTION BLOCK/S	2/0-12 MAIN SIDE, 4-14 SECONDARY SIDE
8	4	CONTACTOR	2 POLE, 480V AC, 60 AMP, WITH 120 VOLT COIL, MAGNETICALLY HELD CONTACTS OPEN WHEN COIL IS DEENERGIZED
9	6	FEEDER CIRCUIT BREAKER	2-15AMP, 2-30 AMP, 2 POLE, 240 VOLT AC, MOLDED CASE, THERMAL-MAGNETIC, FACTORY SEALED, 35kA IR @ 480V. *4 CU LOAD SIDE LUGS
10	1	NEUTRAL BAR (BONDED)	24 PLCS MIN: *14-*1/0 STRANDED COPPER CONDUCTORS
11	1	GND BAR	16 PLCS MIN: *14-*1/0 STRANDED COPPER CONDUCTORS
12	1	ENCLOSURE	NEMA 3R, STAINLESS STEEL, MINIMUM 30" W X 36" LG X 10" DEEP, CONTINUOUS PAD-LOCKABLE HANDLE, METAL SUBPLATE, DRIP SHIELD, SS HINGE, EXTERNAL MOUNTING FEET. SEE CONTROL CABINET & WIRING NOTE 2.

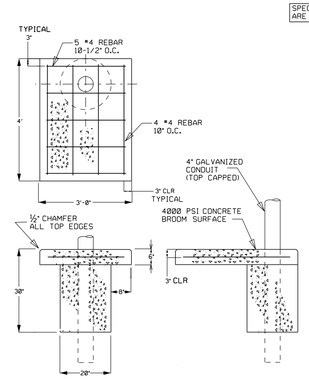


MINIMUM SLOPE REQUIREMENTS FOR LIGHTING CONTROL CABINET

EQUIPMENT AND FOUNDATION SHALL NOT BE INSTALLED IN LOW LYING AREAS SUCH AS WET WEATHER CREEK BEDS, WATER DETENSION AREAS, OR DRAINAGE DITCHES.

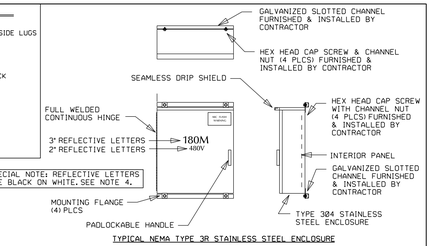
CONTROL CABINET FOUNDATION NOTES:

1. CONTACT KUB 3 DAYS IN ADVANCE OF INSTALLATION TO ARRANGE FOR INSPECTIONS.
2. TYPICAL FOUNDATION MINIMUM REQUIREMENTS ARE SHOWN. FOR LIMITED SPACE RESTRICTIONS AND ELEVATIONAL PROBLEMS CONTACT KUB ENGINEERING.
3. ALL CONDUITS MUST BE IN PLACE AND INSTALLATION SHALL HAVE PASSED A KUB INSPECTION BEFORE POURING CONCRETE. FAILURE TO HAVE INSTALLATION INSPECTED BEFORE POURING CONCRETE WILL RESULT IN REJECTION OF THE WORK DONE, AND THE REMOVAL OF ALL SUCH WORK WILL BE REQUIRED AT NO ADDITIONAL EXPENSE.
4. INSTALL CONDUIT IN ORIENTATION, QUANTITIES, TYPES, AND SIZES TO THE PLAN SHEETS AND DETAIL SHEETS. STUB OUT AND CAP EACH CONDUIT 2 INCHES ABOVE TOP OF FOUNDATION. PLACE CONDUIT 30 INCHES BENEATH FINISH GRADE.
5. ALL CONDUIT TO UTILIZE LARGE SWEEP RADII (MINIMUM 24" RADIUS) GROUND RODS AND GROUNDING NOT SHOWN.
6. CONTRACTOR TO INSTALL NUMBER OF GROUND RODS REQUIRED TO ACHIEVE MINIMUM OF 25 OHMS RESISTANCE. A MINIMUM OF 1 GROUND ROD REQUIRED.



FOUNDATION

ELECTRICAL CONDUITS, AND GROUNDING MATERIALS NOT SHOWN. SEE CONROL CABINET FOUNDATION NOTES 3 & 4.

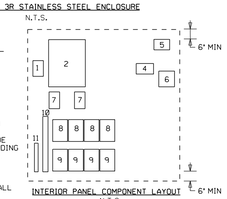


SPECIAL NOTE: REFLECTIVE LETTERS ARE BLACK ON WHITE. SEE NOTE 4.

TYPICAL NEMA TYPE 3R STAINLESS STEEL ENCLOSURE

CONTROL CABINET & WIRING NOTES:

1. THE CABINET IS TO BE SITUATED IN THE OPTIMUM POSITION FOR VIEWING THE CONTROLLER OPERATION AND THE STREET LIGHTS SIMULTANEOUSLY.
2. PROVIDE ARC FLASH LABEL PER NEC 110.16; NFPA 70E.
3. WIRE BENDING RADIUS SHALL CONFORM TO NEC 312.6. MANUFACTURER SHALL INSURE THAT FIELD CONDUCTORS (*1/0 CU/AL LINE SIDE CONDUCTORS) AND *2 THROUGH *6 COPPER (LOAD SIDE CONDUCTORS) HAVE ADEQUATE WIRE BENDING SPACE. FAILURE TO PROVIDE ADEQUATE WIRE BENDING SPACE SHALL BE CAUSE FOR PRODUCT REJECTION.
4. OTHER APPLICABLE SECTIONS OF THE NEC NOT SPECIFICALLY MENTIONED SHALL APPLY TO THIS EQUIPMENT.
5. CONTACT KUB FOR CONTROL CABINET NUMBER.
6. SUBMIT MFGR'S CUT SHEETS, CERTIFICATIONS, & WARRANTY INFORMATION ON ALL PROPOSED COMPONENTS TO BE USED IN CONTROL CABINET AND OBTAIN KUB APPROVAL PRIOR TO PURCHASING COMPONENTS.
7. *4 SOLID COPPER GROUND WIRE SHALL BE CONTINUOUS FROM THE GROUND BAR TO THE 5/8" COPPERWELD GROUND ROD.
8. NEUTRAL BAR SHALL BE ISOLATED FROM THE PANEL WITH A BONDING JUMPER TO THE GROUND BAR.
9. A MINIMUM OF (4) 2" GALV CONDUITS FOR FEEDER CIRCUITRY SHALL BE INSTALLED AND ALL SPARES SHALL BE CAPPED 2 LF OUTSIDE CONTRETE FOUNDATION.
10. INSTALL A GROUNDING BUSHING ON EACH CONDUIT. CONNECT BONDING JUMPER AS REQUIRED BY NEC.
11. FROM SUBPANEL, PROVIDE MANUFACTURER SUPPLIED MOUNTING BRACKETS OR SCREW STUDS PERMANENTLY ATTACHED TO THE BACK PANEL FOR MOUNTING COMPONENTS.



INTERIOR PANEL COMPONENT LAYOUT
N.T.S.

REV.: 0	W.F.P.R:	EST.:	W.O.:	REV.: 2	W.F.P.R:	EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
REV.: 1	W.F.P.R:	EST.:	W.O.:	REV.: 3		EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
					GRID:		SCALE:

Knoxville Utilities Board
1 PH-240V/120V PH-TO-PH, 3-WIRE
ISOLATED NEUTRAL SYSTEM
CONTROL SCHEMATIC & CABINET
CP-#2 (505)

KUB
SHEET 2 OF 2
B-

SEALED BY

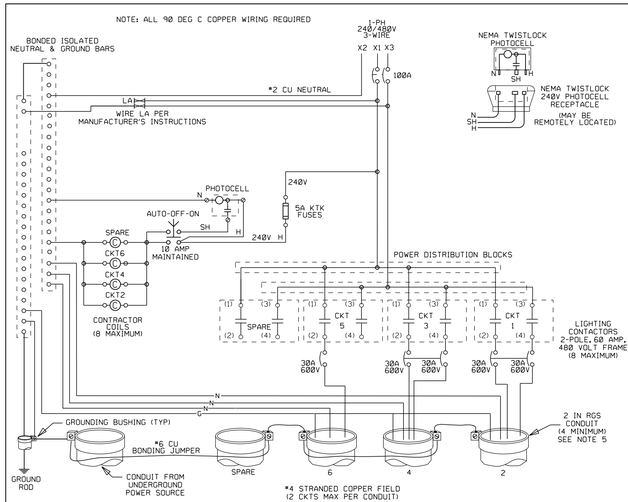
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING
LAYOUT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151P

NOTE: ALL 90 DEG C COPPER WIRING REQUIRED



LIGHTING CONTROL CABINET SCHEMATIC
(8) CIRCUITS MAXIMUM

CONTROL CABINET WIRING NOTES:

1. SEE SHEET 2 FOR CONTROL CABINET DETAILS, FOUNDATION DETAILS, MATERIAL REQUIREMENTS, AND NOTES.
2. CONTACT KUB FOR CONTROL CABINET NUMBER TO BE INSTALLED ON ALL CABINETS.
3. KUB SHALL BE CONTACTED TO MAKE FINAL CONNECTIONS TO POWER.
4. SUBMIT MFGR'S CUT SHEETS, CERTIFICATIONS, & WARRANTY INFORMATION ON ALL PROPOSED COMPONENTS TO BE USED IN CONTROL CABINET AND OBTAIN KUB APPROVAL PRIOR TO PURCHASING COMPONENTS.
5. FEEDER CIRCUITS NOT SHOWN ON THE PLANS SHALL NOT BE INSTALLED , BUT CONDUIT SHALL BE INSTALLED AND CAPPED 2 LF OUTSIDE CONCRETE FOUNDATION. ORIENTATION OF CAPPED CONDUITS PER KUB PROJECT REPRESENTATIVE.
6. APPLICABLE SECTIONS OF THE NEC SHALL APPLY TO THIS EQUIPMENT.
7. PRIOR TO ACCEPTANCE, A 48 HOUR CONTINUOUS BURN IN OF ALL COMPONENTS OF THE LIGHTING SYSTEM IS REQUIRED WITHOUT INTERRUPTION OR FAILURE ATTRIBUTABLE TO POOR WORKMANSHIP OR DEFECTIVE MATERIALS.
8. AFTER INSTALLATION IS COMPLETED AND PRIOR TO ACCEPTANCE, VOLTAGE TESTS, CURRENT TESTS, AND GROUNDING RESISTANCE TESTS SHALL BE SUCCESSFULLY PERFORMED ON THE LIGHTING SYSTEM IN THE PRESENCE OF KUB'S PROJECT REPRESENTATIVE. TEST REPORT FORMS WILL BE SUPPLIED BY KUB.
9. CONTRACTOR SHALL REMAIN LIABLE FOR ALL FACILITIES UNTIL FINAL LETTER OF ACCEPTANCE IS RECEIVED FROM KUB. FINAL LETTER OF ACCEPTANCE WILL HOLD CONTRACTOR LIABLE FOR ALL REPAIRS ATTRIBUTABLE TO POOR WORKMANSHIP OR DEFECTIVE MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATED LETTER OF FINAL ACCEPTANCE.
10. ALL FIELD CONDUCTORS SHALL BE COLOR CODED PER KUB STANDARD DWG-A-15688. COLOR CODING SHALL BE REQUIRED IN ALL ACCESSIBLE AREAS
11. UPON COMPLETION OF THE PROJECT, WARRANTIES OR GUARANTEES ON EQUIPMENT AND MATERIALS THAT ARE OFFERED BY THE MANUFACTURERS AS NORMAL TRADE PRACTICE AND HAVE NOT EXPIRED SHALL BE TURNED OVER TO KUB ALONG WITH COPIES OF PURCHASE ORDERS TO BACK RETURNS WARRANTIES.
12. EQUIPMENT SHALL BE RATED FOR 600 VOLT APPLICATIONS.

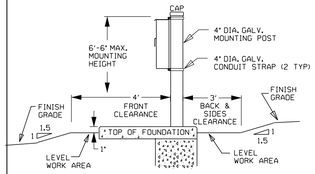
ALLOW SPACE FOR AN ADDITIONAL 2 CONTACTORS AND BREAKERS TO BE ADDED IN THE FUTURE.

REV.: 0	W.F.P.R:	EST.:	W.O.:	REV.: 2	W.F.P.R:	EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
REV.: 1	W.F.P.R:	EST.:	W.O.:	REV.: 3		EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
					GRID:		SCALE:

Knoxville Utilities Board
1 PH-240V/480V PH-TO-PH, 3-WIRE
ISOLATED NEUTRAL SYSTEM
CONTROL SCHEMATIC & CABINET
CP-#1 (600)

KUB
SHEET 1 OF 2
B-

#	QTY	DESCRIPTION	MATERIAL SPECIFICATIONS
1	1	SURGE SUPPRESSOR	IEEE C62.41 CATAGORY C, 250kA PER PHASE, 208V/104A SURGE CURRENT, NEMA LS-1
2	1	MAIN CIRCUIT BREAKER	100 AMP, 2 POLE, 240/480 VOLT AC, MOLDED CASE, THERMAL-MAGNETIC, FACTORY SEALED, 35kA IR @ 480 VOLTS. *2 CU LINE SIDE LUGS
4A	1	FUSE	5 AMP, KTK, 600V, 100K AIC RMS SYMMETRICAL, NON-RENEWABLE
4B	1	FUSEHOLDER	30 AMP, 1 POLE, 600 VAC, BOX LUG, KTK TYPE FUSE
5	1	TERMINAL BLOCK	600 VAC, 3 POSITION, FOR 120V EXTERNAL PE CONNECTIONS
6	1	SELECTOR SWITCH	10 AMP, MAINTAINED, 3 POSITION, 30 MM, NEMA 1 SURFACE MOUNTING, HAND-OFF-AUTO LEGEND PLATE, STANDARD KNOB, BLACK
7	2	POWER DISTRIBUTION BLOCK/S	2/0-12 MAIN SIDE, 4-14 SECONDARY SIDE
8	4	CONTACTOR	2 POLE, 480V AC, 60 AMP, WITH 120 VOLT COIL, MAGNETICALLY HELD CONTACTS OPEN WHEN COIL IS DEENERGIZED
9	6	FEEDER CIRCUIT BREAKER	2-15AMP, 2-30 AMP, 2 POLE, 240/480 VOLT AC, MOLDED CASE, THERMAL-MAGNETIC, FACTORY SEALED, 35kA IR @ 480V. *4 CU LOAD SIDE LUGS
10	1	NEUTRAL BAR (BONDED)	24 PLCS MIN: *14-*1/0 STRANDED COPPER CONDUCTORS
11	1	GND BAR	16 PLCS MIN: *14-*1/0 STRANDED COPPER CONDUCTORS
12	1	ENCLOSURE	NEMA 3R, STAINLESS STEEL, MINIMUM 30" W X 36" LG X 10" DEEP, CONTINUOUS PAD-LOCKABLE HANDLE, METAL SUBPLATE, DRIP SHIELD, SS HINGE, EXTERNAL MOUNTING FEET. SEE CONTROL CABINET & WIRING NOTE 2.

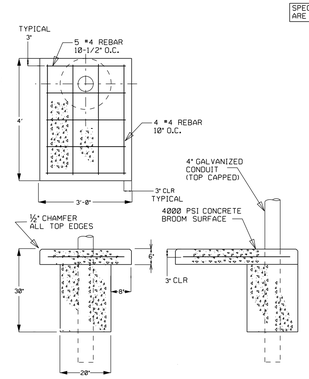


MINIMUM SLOPE REQUIREMENTS FOR LIGHTING CONTROL CABINET

EQUIPMENT AND FOUNDATION SHALL NOT BE INSTALLED IN LOW LYING AREAS SUCH AS WET WEATHER CREEK BEDS, WATER DETENSION AREAS, OR DRAINAGE DITCHES.

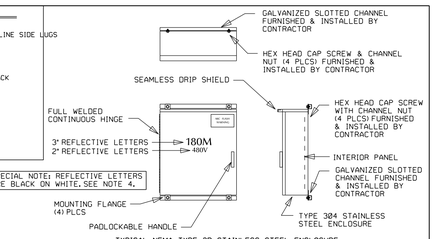
CONTROL CABINET FOUNDATION NOTES:

1. CONTACT KUB 3 DAYS IN ADVANCE OF INSTALLATION TO ARRANGE FOR INSPECTIONS.
2. TYPICAL FOUNDATION MINIMUM REQUIREMENTS ARE SHOWN. FOR LIMITED SPACE RESTRICTIONS AND ELEVATIONAL PROBLEMS CONTACT KUB ENGINEERING.
3. ALL CONDUITS MUST BE IN PLACE AND INSTALLATION SHALL HAVE PASSED A KUB INSPECTION BEFORE POURING CONCRETE. FAILURE TO HAVE INSTALLATION INSPECTED BEFORE POURING CONCRETE WILL RESULT IN REJECTION OF THE WORK DONE, AND THE REMOVAL OF ALL SUCH WORK WILL BE REQUIRED AT NO ADDITIONAL EXPENSE.
4. INSTALL CONDUIT IN ORIENTATION, QUANTITIES, TYPES, AND SIZES TO THE PLAN SHEETS AND DETAIL SHEETS. STUB OUT AND CAP EACH CONDUIT 2 INCHES ABOVE TOP OF FOUNDATION. PLACE CONDUIT 30 INCHES BENEATH FINISH GRADE.
5. ALL CONDUIT TO UTILIZE LARGE SWEEP RADII (MINIMUM 24" RADIUS) GROUND RODS AND GROUNDING NOT SHOWN.
6. CONTRACTOR TO INSTALL NUMBER OF GROUND RODS REQUIRED TO ACHIEVE MINIMUM OF 25 OHMS RESISTANCE. A MINIMUM OF 1 GROUND ROD REQUIRED.



FOUNDATION

ELECTRICAL CONDUITS, AND GROUNDING MATERIALS NOT SHOWN. SEE CONROL CABINET FOUNDATION NOTES 3 & 4.



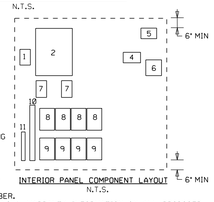
SPECIAL NOTE: REFLECTIVE LETTERS ARE BLACK ON WHITE. SEE NOTE 4.

TYPICAL NEMA TYPE 3R STAINLESS STEEL ENCLOSURE

CONTROL CABINET & WIRING NOTES:

1. THE CABINET IS TO BE SITUATED IN THE OPTIMUM POSITION FOR VIEWING THE CONTROLLER OPERATION AND THE STREET LIGHTS SIMULTANEOUSLY.
2. PROVIDE ARC FLASH LABEL PER NEC 110.16; NFPA 70E.
3. WIRE BENDING RADIUS SHALL CONFORM TO NEC 312.6. MANUFACTURER SHALL INSURE THAT FIELD CONDUCTORS (*1/0 CU/AL LINE SIDE CONDUCTORS) AND *2 THROUGH *6 COPPER (LOAD SIDE CONDUCTORS) HAVE ADEQUATE WIRE BENDING SPACE. FAILURE TO PROVIDE ADEQUATE WIRE BENDING SPACE SHALL BE CAUSE FOR PRODUCT REJECTION.
4. OTHER APPLICABLE SECTIONS OF THE NEC NOT SPECIFICALLY MENTIONED SHALL APPLY TO THIS EQUIPMENT.

N.T.S.



INTERIOR PANEL COMPONENT LAYOUT
N.T.S.

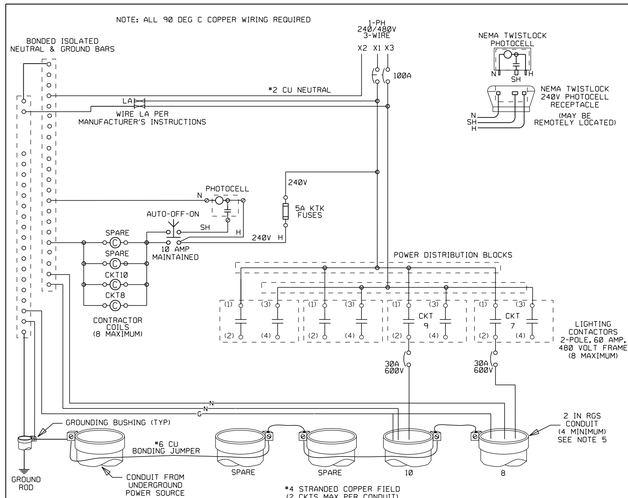
5. CONTACT KUB FOR CONTROL CABINET NUMBER.
6. SUBMIT MFGR'S CUT SHEETS, CERTIFICATIONS, & WARRANTY INFORMATION ON ALL PROPOSED COMPONENTS TO BE USED IN CONTROL CABINET AND OBTAIN KUB APPROVAL PRIOR TO PURCHASING COMPONENTS.
7. *4 SOLID COPPER GROUND WIRE SHALL BE CONTINUOUS FROM THE GROUND BAR TO THE 5/8" COPPERWELD GROUND ROD.
8. NEUTRAL BAR SHALL BE ISOLATED FROM THE PANEL WITH A BONDING JUMPER TO THE GROUND BAR.
9. A MINIMUM OF (4) 2" GALV CONDUITS FOR FEEDER CIRCUITRY SHALL BE INSTALLED AND ALL SPARES SHALL BE CAPPED 2 LF OUTSIDE CONTRETE FOUNDATION.
10. INSTALL A GROUNDING BUSHING ON EACH CONDUIT. CONNECT BONDING JUMPER AS REQUIRED BY NEC.
11. FROM SUBPANEL, PROVIDE MANUFACTURER SUPPLIED MOUNTING BRACKETS OR SCREW STUDS PERMANENTLY ATTACHED TO THE BACK PANEL FOR MOUNTING COMPONENTS.

REV.: 0	W.F.P.R:	EST.:	W.O.:	REV.: 2	W.F.P.R:	EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
REV.: 1	W.F.P.R:	EST.:	W.O.:	REV.: 3		EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
					GRID:		SCALE:

Knoxville Utilities Board
1 PH-120V/208V PH-TO-PH, 3-WIRE
ISOLATED NEUTRAL SYSTEM
CONTROL SCHEMATIC & CABINET
CP-#1 (506)

KUB
SHEET 2 OF 2
B-

NOTE: ALL 90 DEG C COPPER WIRING REQUIRED



LIGHTING CONTROL CABINET SCHEMATIC
(8) CIRCUITS MAXIMUM

CONTROL CABINET WIRING NOTES:

1. SEE SHEET 2 FOR CONTROL CABINET DETAILS, FOUNDATION DETAILS, MATERIAL REQUIREMENTS, AND NOTES.
2. CONTACT KUB FOR CONTROL CABINET NUMBER TO BE INSTALLED ON ALL CABINETS.
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5. FEEDER CIRCUITS NOT SHOWN ON THE PLANS SHALL NOT BE INSTALLED , BUT CONDUIT SHALL BE INSTALLED AND CAPPED 2 LF OUTSIDE CONCRETE FOUNDATION. ORIENTATION OF CAPPED CONDUITS PER KUB PROJECT REPRESENTATIVE.
6. APPLICABLE SECTIONS OF THE NEC SHALL APPLY TO THIS EQUIPMENT.
7. PRIOR TO ACCEPTANCE, A 48 HOUR CONTINUOUS BURN IN OF ALL COMPONENTS OF THE LIGHTING SYSTEM IS REQUIRED WITHOUT INTERRUPTION OR FAILURE ATTRIBUTABLE TO POOR WORKMANSHIP OR DEFECTIVE MATERIALS.
8. AFTER INSTALLATION IS COMPLETED AND PRIOR TO ACCEPTANCE, VOLTAGE TESTS, CURRENT TESTS, AND GROUNDING RESISTANCE TESTS SHALL BE SUCCESSFULLY PERFORMED ON THE LIGHTING SYSTEM IN THE PRESENCE OF KUB'S PROJECT REPRESENTATIVE. TEST REPORT FORMS WILL BE SUPPLIED BY KUB.
9. CONTRACTOR SHALL REMAIN LIABLE FOR ALL FACILITIES UNTIL FINAL LETTER OF ACCEPTANCE IS RECEIVED FROM KUB. FINAL LETTER OF ACCEPTANCE WILL HOLD CONTRACTOR LIABLE FOR ALL REPAIRS ATTRIBUTABLE TO POOR WORKMANSHIP OR DEFECTIVE MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATED LETTER OF FINAL ACCEPTANCE.
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12. EQUIPMENT SHALL BE RATED FOR 600 VOLT APPLICATIONS.

ALLOW SPACE FOR AN ADDITIONAL 2 CONTACTORS AND BREAKERS TO BE ADDED IN THE FUTURE.

REV.: 0	W.F.P.R:	EST.:	W.O.:	REV.: 2	W.F.P.R:	EST.:	W.O.:
DWN.:	CHK.:	APPV.:	DATE:	DWN.:	CHK.:	APPV.:	DATE:
DESC.:				DESC.:			
REV.: 1	W.F.P.R:	EST.:	W.O.:	REV.: 3		EST.:	W.O.:
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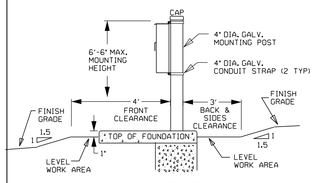
					GRID:		SCALE:

Knoxville Utilities Board
1 PH-120V/480V PH-TO-PH, 3-WIRE
ISOLATED NEUTRAL SYSTEM
CONTROL SCHEMATIC & CABINET
CP-#3 (602)

KUB
SHEET 1 OF 2
B-

#	QTY	DESCRIPTION	MATERIAL SPECIFICATIONS
1	1	SURGE SUPPRESSOR	IEEE C62.41 CATAGORY C, 250kA PER PHASE, 208V/104A SURGE CURRENT, NEMA LS-1
2	1	MAIN CIRCUIT BREAKER	100 AMP, 2 POLE, 240 VOLT AC, MOLDED CASE, THERMAL-MAGNETIC, FACTORY SEALED, 35kA IR @ 480 VOLTS. *2 CU LINE SIDE LUGS
4A	1	FUSE	5 AMP, KTK, 600V, 100K AIC RMS SYMMETRICAL, NON-RENEWABLE
4B	1	FUSEHOLDER	30 AMP, 1 POLE, 600 VAC, BOX LUG, KTK TYPE FUSE
5	1	TERMINAL BLOCK	600 VAC, 3 POSITION, FOR 120V EXTERNAL PE CONNECTIONS
6	1	SELECTOR SWITCH	10 AMP, MAINTAINED, 3 POSITION, 30 MM, NEMA 1 SURFACE MOUNTING, HAND-OFF-AUTO LEGEND PLATE, STANDARD KNOB, BLACK
7	2	POWER DISTRIBUTION BLOCK/S	2/0-12 MAIN SIDE, 4-14 SECONDARY SIDE
8	4	CONTACTOR	2 POLE, 480V AC, 60 AMP, WITH 120 VOLT COIL, MAGNETICALLY HELD CONTACTS OPEN WHEN COIL IS DEENERGIZED
9	6	FEEDER CIRCUIT BREAKER	2-15AMP, 2-30 AMP, 2 POLE, 240 VOLT AC, MOLDED CASE, THERMAL-MAGNETIC, FACTORY SEALED, 35kA IR @ 480V. *4 CU LOAD SIDE LUGS
10	1	NEUTRAL BAR (BONDED)	24 PLCS MIN: *14-*1/0 STRANDED COPPER CONDUCTORS
11	1	GND BAR	16 PLCS MIN: *14-*1/0 STRANDED COPPER CONDUCTORS
12	1	ENCLOSURE	NEMA 3R, STAINLESS STEEL, MINIMUM 30" W X 36" LG X 10" DEEP, CONTINUOUS PAD-LOCKABLE HANDLE, METAL SUBPLATE, DRIP SHIELD, SS HINGE, EXTERNAL MOUNTING FEET. SEE CONTROL CABINET & WIRING NOTE 2.

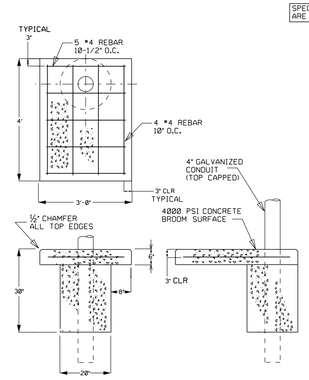


MINIMUM SLOPE REQUIREMENTS FOR LIGHTING CONTROL CABINET

EQUIPMENT AND FOUNDATION SHALL NOT BE INSTALLED IN LOW LYING AREAS SUCH AS WET WEATHER CREEK BEDS, WATER DETENSION AREAS, OR DRAINAGE DITCHES.

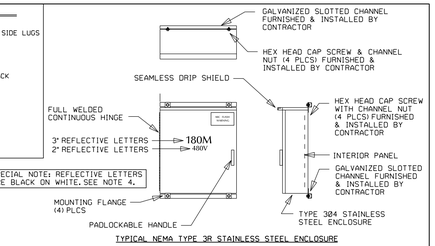
CONTROL CABINET FOUNDATION NOTES:

1. CONTACT KUB 3 DAYS IN ADVANCE OF INSTALLATION TO ARRANGE FOR INSPECTIONS.
2. TYPICAL FOUNDATION MINIMUM REQUIREMENTS ARE SHOWN. FOR LIMITED SPACE RESTRICTIONS AND ELEVATIONAL PROBLEMS CONTACT KUB ENGINEERING.
3. ALL CONDUITS MUST BE IN PLACE AND INSTALLATION SHALL HAVE PASSED A KUB INSPECTION BEFORE POURING CONCRETE. FAILURE TO HAVE INSTALLATION INSPECTED BEFORE POURING CONCRETE WILL RESULT IN REJECTION OF THE WORK DONE, AND THE REMOVAL OF ALL SUCH WORK WILL BE REQUIRED AT NO ADDITIONAL EXPENSE.
4. INSTALL CONDUIT IN ORIENTATION, QUANTITIES, TYPES, AND SIZES TO THE PLAN SHEETS AND DETAIL SHEETS. STUB OUT AND CAP EACH CONDUIT 2 INCHES ABOVE TOP OF FOUNDATION. PLACE CONDUIT 30 INCHES BENEATH FINISH GRADE.
5. ALL CONDUIT TO UTILIZE LARGE SWEEP RADII (MINIMUM 24" RADIUS) GROUND RODS AND GROUNDING NOT SHOWN.
6. CONTRACTOR TO INSTALL NUMBER OF GROUND RODS REQUIRED TO ACHIEVE MINIMUM OF 25 OHMS RESISTANCE. A MINIMUM OF 1 GROUND ROD REQUIRED.



FOUNDATION

ELECTRICAL CONDUITS, AND GROUNDING MATERIALS NOT SHOWN. SEE CONROL CABINET FOUNDATION NOTES 3 & 4.



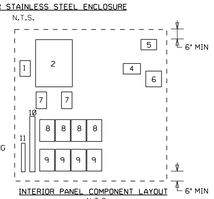
SPECIAL NOTE: REFLECTIVE LETTERS ARE BLACK ON WHITE. SEE NOTE 4.

TYPICAL NEMA TYPE 3R STAINLESS STEEL ENCLOSURE

CONTROL CABINET & WIRING NOTES:

1. THE CABINET IS TO BE SITUATED IN THE OPTIMUM POSITION FOR VIEWING THE CONTROLLER OPERATION AND THE STREET LIGHTS SIMULTANEOUSLY.
2. PROVIDE ARC FLASH LABEL PER NEC 110.16; NFPA 70E.
3. WIRE BENDING RADIUS SHALL CONFORM TO NEC 312.6. MANUFACTURER SHALL INSURE THAT FIELD CONDUCTORS (*1/0 CU/AL LINE SIDE CONDUCTORS) AND *2 THROUGH *6 COPPER (LOAD SIDE CONDUCTORS) HAVE ADEQUATE WIRE BENDING SPACE. FAILURE TO PROVIDE ADEQUATE WIRE BENDING SPACE SHALL BE CAUSE FOR PRODUCT REJECTION.
4. OTHER APPLICABLE SECTIONS OF THE NEC NOT SPECIFICALLY MENTIONED SHALL APPLY TO THIS EQUIPMENT.

N.T.S.



INTERIOR PANEL COMPONENT LAYOUT
N.T.S.

5. CONTACT KUB FOR CONTROL CABINET NUMBER.
6. SUBMIT MFGR'S CUT SHEETS, CERTIFICATIONS, & WARRANTY INFORMATION ON ALL PROPOSED COMPONENTS TO BE USED IN CONTROL CABINET AND OBTAIN KUB APPROVAL PRIOR TO PURCHASING COMPONENTS.
7. *4 SOLID COPPER GROUND WIRE SHALL BE CONTINUOUS FROM THE GROUND BAR TO THE 5/8" COPPERWELD GROUND ROD.
8. NEUTRAL BAR SHALL BE ISOLATED FROM THE PANEL WITH A BONDING JUMPER TO THE GROUND BAR.
9. A MINIMUM OF (4) 2" GALV CONDUITS FOR FEEDER CIRCUITRY SHALL BE INSTALLED AND ALL SPARES SHALL BE CAPPED 2 LF OUTSIDE CONTRETE FOUNDATION.
10. INSTALL A GROUNDING BUSHING ON EACH CONDUIT. CONNECT BONDING JUMPER AS REQUIRED BY NEC.
11. FROM SUBPANEL, PROVIDE MANUFACTURER SUPPLIED MOUNTING BRACKETS OR SCREW STUDS PERMANENTLY ATTACHED TO THE BACK PANEL FOR MOUNTING COMPONENTS.

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					GRID:		SCALE:

Knoxville Utilities Board
1 PH-240V/120V PH-TO-PH, 3-WIRE
ISOLATED NEUTRAL SYSTEM
CONTROL SCHEMATIC & CABINET
CP-#2 (505)

KUB
SHEET 2 OF 2
B-

SEALED BY

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

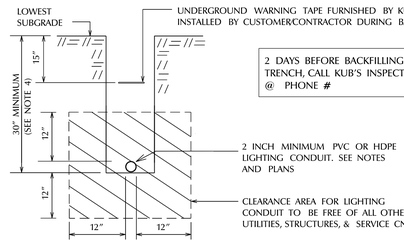
LIGHTING
LAYOUT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	1510

• LAST REVISION: REVISE NOTES TO INCLUDE TDOT STDS

GENERAL NOTES:

1. INSTALLATION SHALL MEET THE REQUIREMENTS OF NEC, NESC, AND KUB CONTRACT DOCUMENTS. KUB, AS OWNER, SHALL DECIDE THE MOST STRINGENT REQUIREMENTS TO USE SHOULD CONFLICTS ARISE.
2. AT LEAST 3 DAYS, BUT NOT MORE THAN 10 DAYS IN ADVANCE OF EXCAVATION, CONTRACTOR SHALL CALL THE TENNESSEE ONE CALL SYSTEM AT 811 AND ALSO SHALL CONTACT KUB PROJECT INSPECTOR TO ARRANGE FOR INSPECTIONS..
3. ALL TRENCHES FOR LIGHTING CONDUITS MUST BE INSPECTED BY KUB PROJECT INSPECTOR AFTER PLACEMENT OF CONDUIT AND BEFORE BACKFILLING. FAILURE TO HAVE KUB INSPECTION PRIOR TO BACKFILLING WILL RESULT IN REJECTION OF THE WORK.
4. CUSTOMER/CONTRACTOR TO EXCAVATE AND BACKFILL TRENCHES AND TO FURNISH AND INSTALL CONDUIT AND FITTINGS. ENCASED CONDUIT TO BE GRAY PVC SCHEDULE–40 OR 80 ELECTRIC POWER CONDUIT MEETING THE REQUIREMENTS OF ASTM D1248 & D2447. HDPE DUCT WHEN ALLOWED MAY HAVE ADDITIONAL REQUIREMENTS; CONTACT KUB FOR APPROVED MATERIALS.
5. CUSTOMER/CONTRACTOR TO FURNISH AND INSTALL 210LB–TEST POLYLINE PULL–STRING IN ALL CONDUITS.
6. LIGHTING CONDUIT TO BE INSTALLED AS STRAIGHT AS PRACTICAL. ANY DEFINED CHANGES IN DIRECTION SHALL HAVE A BENDING RADIUS OF NOT LESS THAN 10 FEET UNLESS OTHERWISE DIRECTED BY KUB.
7. ALL HORIZONTAL CHANGES IN CONDUIT ELEVATIONS SHALL BE SUPPORTED BY APPROVED BACKFILL MATERIAL AND COMPACTED TO ADJACENT SOIL COMPACTION. .
8. THE MAXIMUM OF BENDS IN ANY CONDUIT IS NOT TO EXCEED 270 DEGREES. FACTORY BENDS ARE REQUIRED AT ALL POLES, PULL BOXES, AND STRUCTURE MOUNTING. HEAT BENDING OF CONDUIT IS NOT ACCEPTABLE. CONDUIT IS SUBJECT TO MANDREL TESTING FOR ROUNDNESS IN THE PRESENCE OF KUB INSPECTOR.
9. TRENCH DEPTH FOR DIRECT BURIAL CONDUIT IN EARTH IS 30IN (MIN) BELOW SUBGRADE. FOR CONDUIT INSTALLATION UNDER DRIVEWAYS, ROADWAYS, OR PARKING AREAS SEE KUB DRAWING A–15578 AND B–15710.
10. BOTTOM 15IN OF TRENCH BACKFILL TO BE IN CLEAN GRAVEL OR WELL–TAMPED SOIL, FREE OF HARD MATERIAL LARGER THAN 3/4IN OR ANY MATERIAL WHICH COULD DAMAGE CONDUIT. REMAINING BACKFILL TO BE GRAVEL OR WELL–TAMPED SOIL, FREE OF HARD MATERIAL LARGER THAN 3IN.
11. REFER TO LOCAL MUNICIPAL STANDARDS FOR REQUIREMENTS FOR STREET CUTS AND REPAIRS AND SIDEWALK REMOVALS AND REPAIRS.
12. CONTACT KUB INSPECTOR IF ROCK IS ENCOUNTERED IN TRENCH ROUTE. INSTALLATION DETAILS OF TDOT DRAWING T–L–4 AND/OR KUB ACCEPTABLE PRACTICE SHALL APPLY FOR CONDUIT ON ROCK



REFERENCE TDOT DRAWING T–L–4 FOR ADDITIONAL STATE & FEDERAL HIGHWAY INSTALLATION REQUIREMENTS

KUB CONSTRUCTION GUIDE	ELECTRIC TRENCH DETAIL WITH ONE 2 INCH LIGHTING CONDUIT	REVISION: 2 (12/26/2013)
	ORIG DWG BY: LGA DATE: 6-28-13 SHEET 1 OF 1 SHEETS	A- 15576

• LAST REVISION: REVISE NOTES TO INCLUDE TDOT STDS

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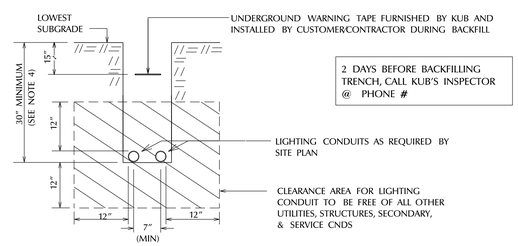

REFERENCE TDOT DRAWING T–L–4 FOR ADDITIONAL STATE & FEDERAL HIGHWAY INSTALLATION REQUIREMENTS

KUB CONSTRUCTION GUIDE	ELECTRIC TRENCH DETAIL WITH TWO-2 INCH LIGHTING CONDUITS	REVISION: 1 (12/26/2013)
	ORIG DWG BY: LGA DATE: 6/29/2013 SHEET 1 OF 1 SHEETS	A- 15577

• LAST REVISION: REVISE NOTES TO INCLUDE TDOT STDS

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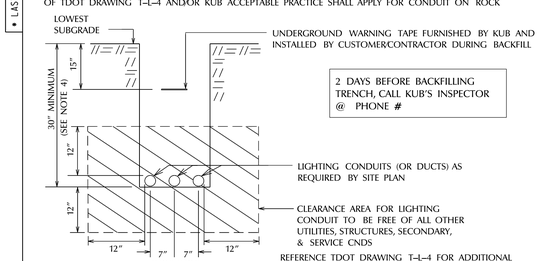

REFERENCE TDOT DRAWING T–L–4 FOR ADDITIONAL STATE & FEDERAL HIGHWAY INSTALLATION REQUIREMENTS

KUB CONSTRUCTION GUIDE	ELECTRIC TRENCH DETAILS WITH THREE 2 INCH LIGHTING CONDUITS	REVISION: 1 (12/26/2013)
	ORIG DWG BY: LGA DATE: 6-28-13 SHEET 1 OF 1 SHEETS	A-15575

• LAST REVISION: REVISE NOTES AND DETAILS TO INCLUDE TDOT STDS

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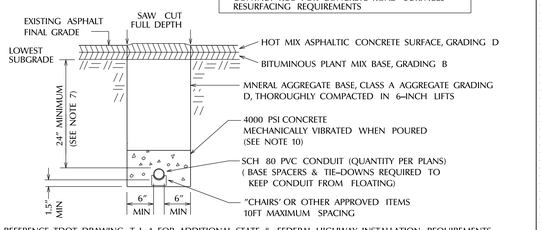
4. CUSTOMER/CONTRACTOR TO EXCAVATE AND BACKFILL TRENCHES AND TO FURNISH AND INSTALL 2 INCH CONDUIT. ENCASED CONDUIT TO BE GRAY PVC SCHEDULE–80 ELECTRIC POWER CONDUIT (EPC–80) MEETING THE REQUIREMENTS OF ASTM D 1248 & D 2447. CUSTOMER TO FURNISH AND INSTALL PVC SOLVENT CEMENT AT EACH CONDUIT JOINT PER MANUFACTURERS INSTRUCTIONS. SEE SITE PLAN FOR QUANTITY AND LOCATION OF CONDUIT. HDPE DUCT, WHEN ALLOWED, MAY HAVE ADDITIONAL REQUIREMENTS. CONTACT KUB FOR APPROVED MATERIALS.
5. CUSTOMER/CONTRACTOR TO FURNISH AND INSTALL 210LB–TEST POLYLINE PULL–STRING IN ALL CONDUITS.
6. LIGHTING CONDUIT TO BE INSTALLED AS STRAIGHT AS PRACTICAL. ANY DEFINED CHANGES IN DIRECTION SHALL HAVE A BENDING RADIUS OF NOT LESS THAN 50 FEET UNLESS OTHERWISE DIRECTED BY KUB. THE MAXIMUM NUMBER OF BENDS IN ANY CONDUIT RUN IS NOT TO EXCEED 270 DEGREES. CONDUIT IS SUBJECT TO MANDREL TESTING FOR ROUNDNESS IN THE PRESENCE OF KUB INSPECTOR.
7. REQUIRED ENCASED CONDUIT TRENCH DEPTH IS 30 INCHES MINIMUM (36IN UNDER VEHICLE TRAVEL AREAS) FROM TOP OF CONDUIT TO LOWEST SUBGRADE. EXTEND CONDUIT ENCASEMENT 3 FEET MINIMUM BEYOND ALL PAVED SURFACES. EXTEND CONDUIT 6 INCHES MINIMUM BEYOND CONCRETE ENCASEMENT.
8. WHERE MORE THAN (1) 2 INCH CONDUIT IS INSTALLED IN TRENCH, CONDUITS SHALL NOT BE PLACED CLOSER THAN 8 INCHES CENTER TO CENTER.
9. CONCRETE SHALL BE PROPERLY VIBRATED WHEN INSTALLED TO INSURE COMPLETE FLOW UNDER AND AROUND CONDUIT TO ELIMINATE ANY AIR POCKETS. ALLOW CONCRETE TO SET FIRM BEFORE BACKFILLING REMAINDER OF TRENCH. FOR CONCRETE ROADWAYS, FILL TRENCH WITH CONCRETE TO FINAL ROADWAY GRADE.
10. FOR ADDITIONAL CONCRETE DETAIL INFORMATION, SEE KUB DWG–16132–DINFO AND DWG–16132–DL9.

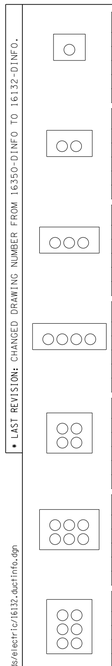
EXISTING ASPHALT ROAD SURFACE SHOWN
CONTACT KUB FOR CONCRETE ROAD SURFACES RESURFACING REQUIREMENTS



REFERENCE TDOT DRAWING T–L–4 FOR ADDITIONAL STATE & FEDERAL HIGHWAY INSTALLATION REQUIREMENTS

KUB CONSTRUCTION GUIDE	ELECTRIC TRENCH DETAIL FOR 2 INCH CONDUITS UNDER ASPHALT TRAFFIC BEARING AREAS	REVISION: 2 (1/24/2014)
	ORIG DWG BY: LGA DATE: 6/29/2013 SHEET 1 OF 1 SHEETS	A- 15578

• LAST REVISION: CHANGED DRAWING NUMBER FROM 16350-DINFO TO 16132-DINFO.



CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	15"	12"	4.3 CU-YDS
3"	15"	13"	4.9 CU-YDS
4"	15"	14"	5.4 CU-YDS
5"	18"	15"	6.1 CU-YDS
6"	18"	16"	6.8 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	18"	12"	5.3 CU-YDS
3"	18"	13"	6.2 CU-YDS
4"	24"	14"	7.2 CU-YDS
5"	24"	15"	8.2 CU-YDS
6"	24"	16"	9.3 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	24"	12"	6.7 CU-YDS
3"	24"	13"	7.8 CU-YDS
4"	30"	14"	9.3 CU-YDS
5"	30"	15"	10.4 CU-YDS
6"	30"	16"	11.6 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	24"	12"	7.5 CU-YDS
3"	30"	13"	9.2 CU-YDS
4"	36"	14"	11.0 CU-YDS
5"	36"	15"	12.4 CU-YDS
6"	36"	16"	13.9 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	18"	16"	7.0 CU-YDS
3"	18"	18"	8.3 CU-YDS
4"	24"	20"	9.9 CU-YDS
5"	24"	23"	11.3 CU-YDS
6"	24"	25"	12.8 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	24"	16"	8.7 CU-YDS
3"	24"	18"	10.4 CU-YDS
4"	30"	20"	12.5 CU-YDS
5"	30"	23"	14.6 CU-YDS
6"	30"	25"	16.8 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	18"	21"	9.1 CU-YDS
3"	18"	24"	10.8 CU-YDS
4"	24"	27"	13.0 CU-YDS
5"	24"	32"	15.2 CU-YDS
6"	24"	35"	17.5 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	24"	16"	9.8 CU-YDS
3"	30"	18"	12.3 CU-YDS
4"	36"	20"	14.9 CU-YDS
5"	36"	23"	17.1 CU-YDS
6"	42"	25"	19.8 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	18"	25"	10.6 CU-YDS
3"	18"	29"	13.0 CU-YDS
4"	24"	33"	15.8 CU-YDS
5"	24"	40"	18.5 CU-YDS
6"	24"	44"	21.3 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	24"	21"	11.3 CU-YDS
3"	24"	24"	13.7 CU-YDS
4"	30"	27"	16.6 CU-YDS
5"	30"	32"	19.3 CU-YDS
6"	30"	35"	22.1 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	24"	21"	12.5 CU-YDS
3"	30"	24"	16.0 CU-YDS
4"	36"	27"	19.4 CU-YDS
5"	36"	32"	22.7 CU-YDS
6"	42"	35"	26.3 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	24"	25"	13.0 CU-YDS
3"	24"	29"	16.4 CU-YDS
4"	30"	33"	20.1 CU-YDS
5"	30"	40"	23.5 CU-YDS
6"	30"	44"	27.0 CU-YDS

CND SIZE	MIN WIDTH	MIN DEPTH	CU-YDS CONCRETE PER 100FT RUN
2"	24"	25"	15.6 CU-YDS
3"	30"	29"	19.1 CU-YDS
4"	36"	33"	22.4 CU-YDS
5"	36"	40"	24.7 CU-YDS
6"	42"	44"	28.3 CU-YDS

THERE IS A 6" COVER OF CONCRETE ON TOP. A 2"- 6" COVER ON SIDES OF OUTER CONDUITS, & A 3" COVER OF CONCRETE ON BOTTOM.

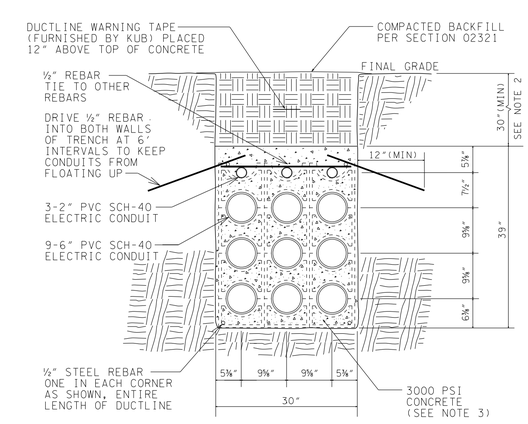
THE SEPARATION BETWEEN CONDUIT OUTSIDE WALL SURFACES IN ROWS AND COLUMNS IS 2".

CND SIZE	OUTSIDE DIMENSION
2"	2-3/8"
3"	3-1/2"
4"	4-1/2"
5"	5-9/16"
6"	6-5/8"

y:/public/standards/electric/16132.ductinfo.dgn

KUB CONSTRUCTION STANDARD	MINIMUM DUCTLINE DIMENSIONS AND CONCRETE REQUIREMENTS	LAST UPDATE: 6-30-04 CEA
	ORIG DWG BY: CEA DATE: 8-23-01 SHEET 1 OF 1 SHEETS	DWG-16132-DINFO

• LAST REVISION: CHANGED 12" TO 18" MINIMUM DIRT DEPTH IN NOTE 2



STANDARD MAIN DUCTLINE SECTION VIEW

SCALE: 1" = 15"

NOTES:

1. INSTALL INTERLOCKING BASE SPACERS THAT PROVIDE 3" SPACE UNDERNEATH CONDUIT AND 3" HORIZONTAL SPACE BETWEEN OUTSIDE CONDUIT WALLS. INSTALL INTERLOCKING INTERMEDIATE SPACERS THAT PROVIDE 3" HORIZONTAL & VERTICAL SPACE BETWEEN OUTSIDE CONDUIT WALLS. SPACERS SHALL BE INSTALLED AT 6' INTERVALS THE ENTIRE LENGTH OF DUCTLINE. (SPACERS SHOWN BY DASHED LINES IN ABOVE DRAWING.)
2. EXCEPT UNDER ROADWAYS, 2" OF ADDITIONAL CONCRETE ON TOP OF DUCTLINE CAN REPLACE 6" OF DIRT BACKFILL, UP TO A MINIMUM DEPTH OF 18" OF DIRT. THIS ALLOWANCE SHOULD BE USED ONLY IN CASES OF ROCK AND/OR CONFLICTS WITH OTHER UTILITIES.
3. CONCRETE SHALL BE PROPERLY VIBRATED WHEN INSTALLED TO INSURE COMPLETE FLOW UNDER, AROUND, AND BETWEEN ALL CONDUITS, AND TO ELIMINATE ANY AIR POCKETS. ALLOW CONCRETE TO SET FIRM BEFORE BACKFILLING.
4. SEE SECTION 02580 FOR ADDITIONAL DETAILS.

y:/public/standards/electric/16132.ductline.dgn

KUB CONSTRUCTION STANDARD	TYPICAL MAIN DUCTLINE INSTALLATION CONCRETE-ENCASED PVC CONDUITS	LAST UPDATE: 3-29-10 CEA
	ORIG DWG BY: CEA DATE: 1-24-02 SHEET 1 OF 1 SHEETS	DWG-16132-DL9

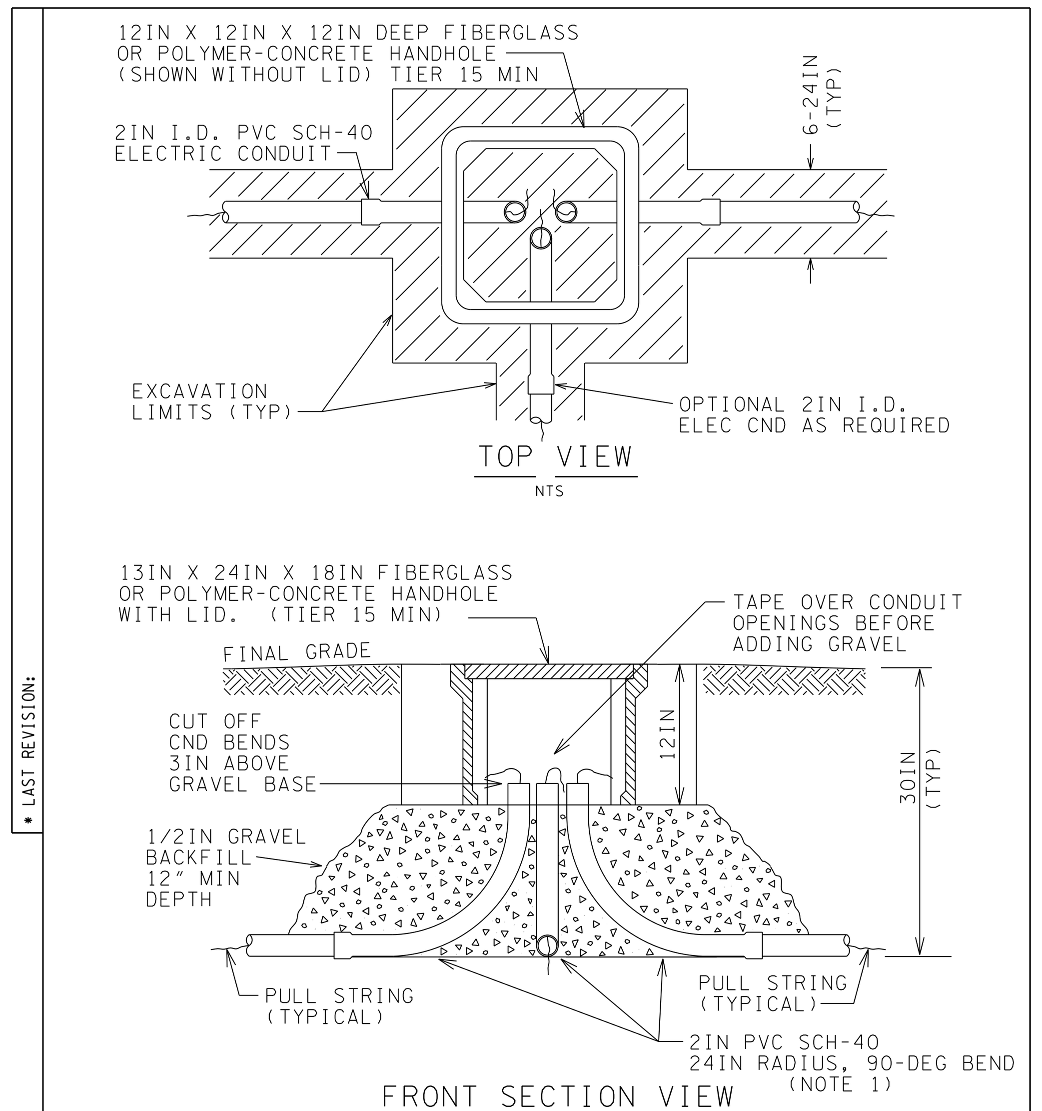
SEALED BY

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT

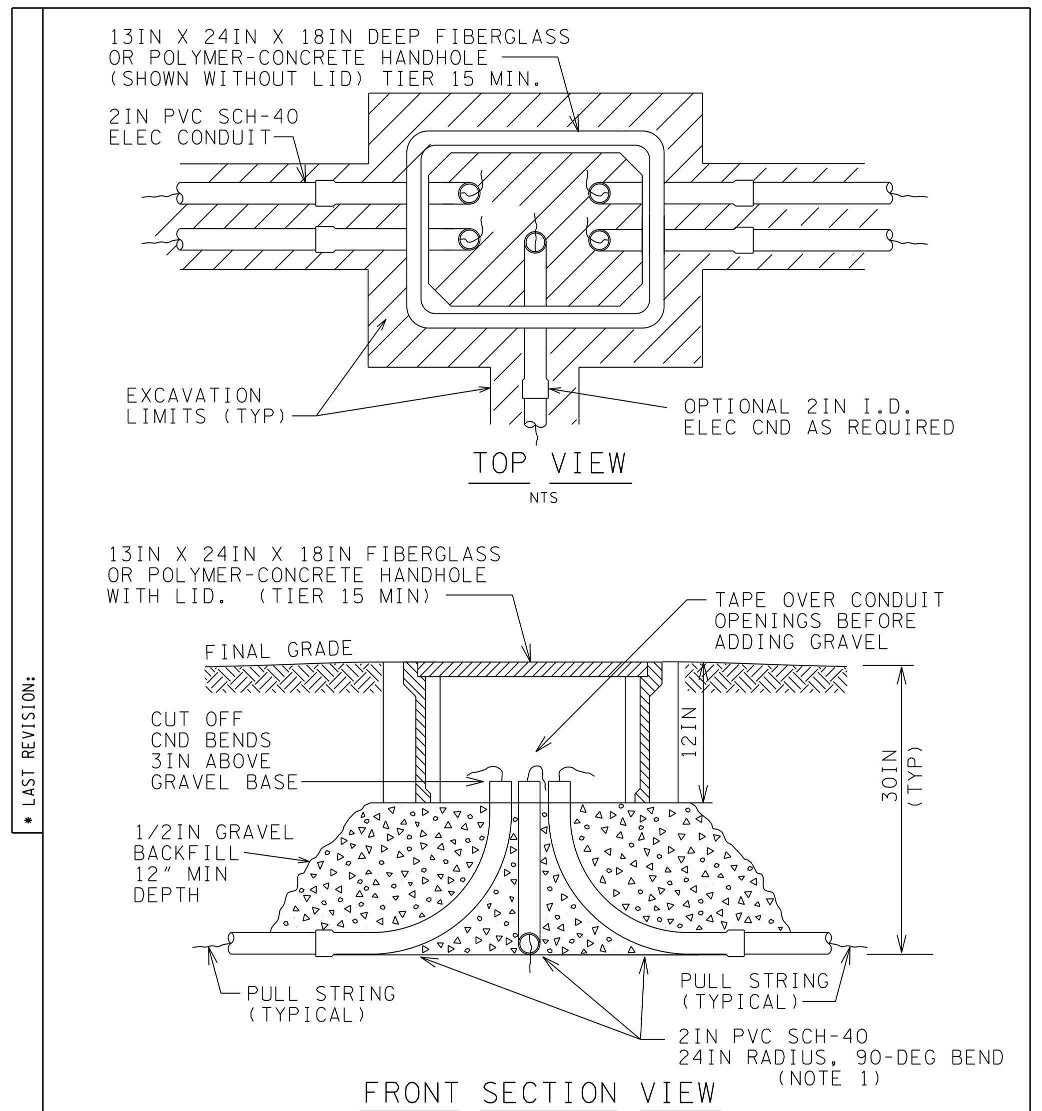
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151R



NOTES:
1. CONDUIT BENDS FEEDING RADIAL TAPS INTO POLES MAY BE REDUCED TO 12" MIN BEND RADIUS.
2. FOR USE WITH 4 CONDUITS MAXIMUM.
3. CONCRETE APRON REQUIRED IF USED IN NON-DELIBERATE TRAFFIC BEARING AREAS. SEE KUB DRAWING A-15610.

* LAST REVISION:

KUB CONSTRUCTION GUIDE — 12" X 12" X 12" DEEP PULL BOX INSTALLATION DETAILS — LAST UPDATE: 1-8-14 — ORIG DWG BY: LGA — DATE: 8-14-13 — SHEET 1 OF 1 SHEETS — A- 15608



NOTES:
1. CONDUIT BENDS FEEDING RADIAL TAPS INTO POLES MAY BE REDUCED TO 12" MIN BEND RADIUS.
2. FOR USE WITH 6 CONDUITS MAXIMUM.
3. CONCRETE APRON REQUIRED IF USED IN NON-DELIBERATE TRAFFIC BEARING AREAS. SEE KUB DRAWING A-15610.

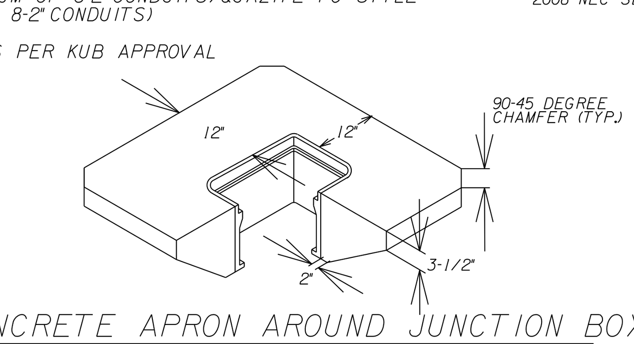
* LAST REVISION:

KUB CONSTRUCTION GUIDE — 13" X 24" X 18" DEEP PULL BOX INSTALLATION DETAILS — LAST UPDATE: 1-8-14 — ORIG DWG BY: LGA — DATE: 8-14-13 — SHEET 1 OF 1 SHEETS — A- 15609

STANDARD KUB APPROVED PULL BOX SIZES:
12" x 12" x 12" (MAXIMUM OF 2-2" CONDUITS) QUAZITE PC STYLE
13" x 24" x 18" (MAXIMUM OF 6-2" CONDUITS) QUAZITE PG STYLE
17" x 30" x 18" (UP TO 8-2" CONDUITS)

REFERENCES:
UL LISTED TO ANSI/SCTE 77
2008 NEC SECTION 314.20

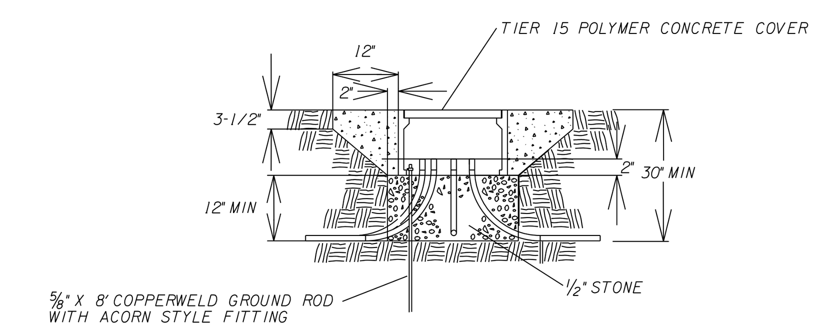
LARGER PULL BOXES PER KUB APPROVAL



CONCRETE APRON AROUND JUNCTION BOX

NO SCALE

(APPROX.7 CUBIC FEET OF CONCRETE IN NEAT SECTION)
NOTE: 4,000 POUNDS PER SQUARE INCH AT 28 DAYS.



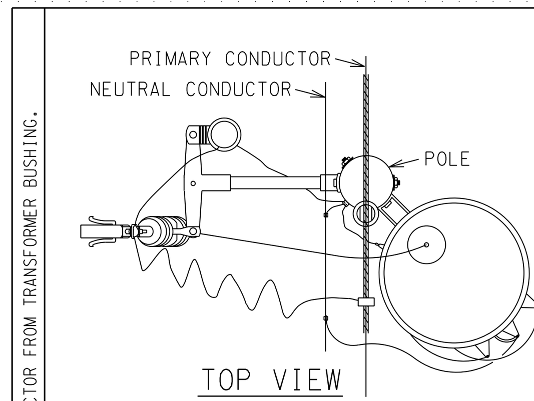
CONCRETE POLYMER JUNCTION BOX INSTALLATION

NO SCALE

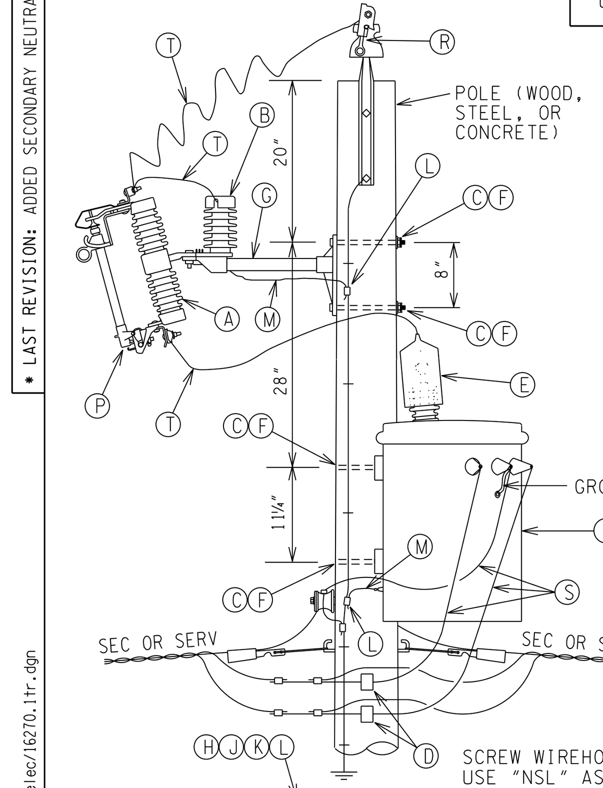
NOTES:
1. CIRCUIT WIRES ARE NOT SHOWN. SEE PLANS.
2. CIRCUITS SHALL BE SPLICED WITH SPLIT BOLT CONNECTORS AND COVERED WITH RUBBER TAPE EQUAL TO 2 TIMES THE INSULATION THICHNESS WITH A FINAL COAT OF VINYL ELECTRICAL TAPE.
3. CONCRETE POLYMER PULL BOX SHALL HAVE A MINIMUM TIER 15 RATING. LOCATIONS FOR USE LIMITED TO OPEN FIELD AND NON-TRAFFIC BEARING AREAS.
4. AASHTO H-20 RATED PREFABRICATED OR POURED IN PLACE CONCRETE PULL BOXES SHALL BE USED IN TRAVEL LANES, SHOULDERS, OR AREAS EXPOSED TO VEHICULAR TRAFFIC. KUB APPROVAL REQUIRED.
5. GROUND ROD SHALL BE INSTALLED IN PULL BOXES WHEN LOCATED NEAR LIGHT POLES OR IN THE FIRST PULL BOX EXITING BRIDGE INSTALLED LIGHT POLES.

NOTE: KUB APPROVED PULL BOXES ARE OPEN BOTTOM, QUAZITE, HEAVY DUTY MINIMUM TIER 15 RATED BOX AND COVER, STRAIGHT SIDE, WITH (2) SS PENTA FASTENERS, SKID RESISTANT SURFACE, CORNER BOLTS WITH REPLACABLE EZ-NUTS, AND (2) PULL SLOTS, AND "ELECTRIC" LOGO. FOR APPROVED TRAFFIC RATED PULL BOXES, CONTACT KUB ENGINEERING.

W.F.P.I.:	Knoxville Utilities Board KUB
W.O.: EST.:	INTERSTATE HIGHWAY LIGHTING SYSTEMS
DATE.: 3/19/2013 GRID.:	APPROVED PULL BOXES AND
DWN.: LGA	INSTALLATION DETAILS
CHK.:	
APPR.:	
DESC.: PULL BOX STANDARD INSTALL	SHEET 1 REV. Ø SCALE: NONE A-15509



ID	ITEM #	INDEX DESCRIPTION	QTY
A	171074	CUTOUT 15KV 100A W/O BKT	1
B	171587	ARRESTER DISTR 10KV	1
C	151548	BOLT MACHINE 5/8X12	4
D	150904	WIREHOLDER SCREW PORCELA	1
E	144832	GUARD BIRD & SQUIRREL	1
F	151456	WASHER SQUARE 2-1/4IN	4
G	179838	BRACKET FGLASS CO-ARR	1
H	173286	ROD GROUND 5/8IN X 8FT	1
J	103184	CLAMP GOUND ROD 5/8IN	1
K	140335	CONN COMP PG AL-CU	1
L	150375	CONN SPLIT BOLT BRONZE	3
M	178293	WIRE AR BARE #1/0AWG	1
N	1-----	CONN BOLTED (SIZE REQD)	1
P	1-----	FUSE CO 15KV (SIZE REQD)	1
R	1-----	CLAMP HOTLINE(SIZE REQD)	1
S	1-----	WIRE CU WP SD(SIZE REQD)	-
T	1-----	WIRE CU TR RS(SIZE REQD)	-
U	1-----	TRANSFORMER (SIZE REQD)	1



NOTES:
1. CONDUCTOR TIE-WIRE & GUYING NOT SHOWN.
2. USE PREDRILLED HOLES WHERE AVAILABLE.
3. FOR GROUND ROD INSTALLATION DETAILS, SEE DWG 16700-PGND.
4. FOR CUTOUT FUSE SIZE, SEE DWG 16030-OHT
5. FOR HOTLINE CLAMP SIZE, SEE DWG 16720-HLCL.
6. FOR TRANSFORMER PRIMARY & SECONDARY JUMPER WIRE SIZES, SEE DWG 16030-OHT.
7. BOND TRANSFORMER NEUTRAL TO SYSTEM GROUND AS SHOWN.
8. FOR TRANSFORMER WIRING DIAGRAM, SEE DWG 16800-1PH.

(U) TRANSFORMERS COME IN MANY SHAPES & SIZES. SIZE SHOWN IS TYPICAL FOR A 25 KVA TRANSFORMER.

SECONDARY & SERVICE INSTALLATION DETAILS ARE SHOWN ON DWG.

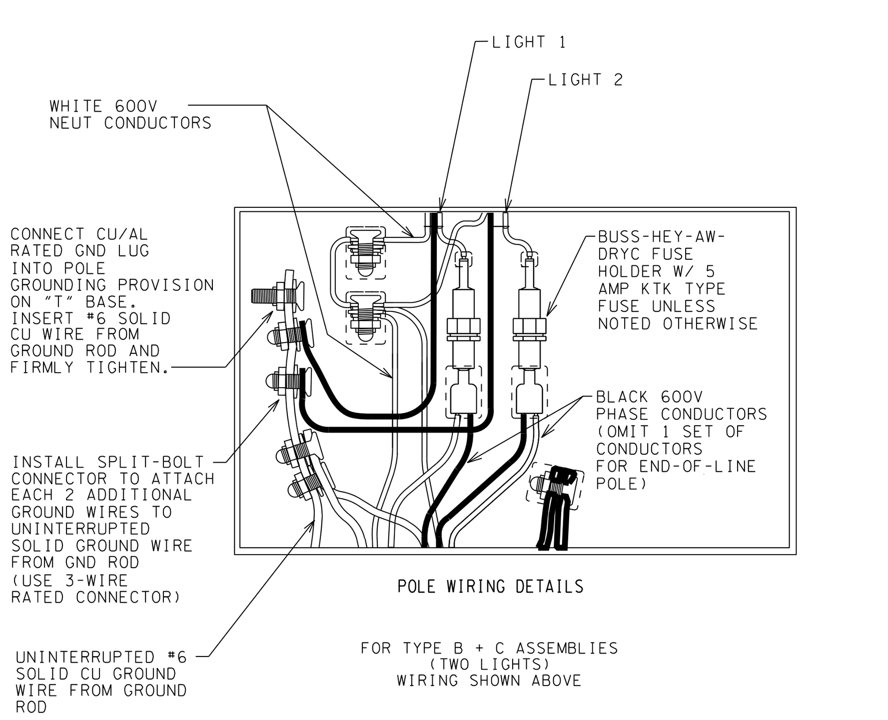
(D) SCREW WIREHOLDERS FOR WOOD POLES ONLY. USE "NSL" ASSEMBLIES FOR CONCRETE, STEEL, & FIBERGLASS POLES.

* LAST REVISION: ADDED SECONDARY NEUTRAL CONDUCTOR FROM TRANSFORMER BUSHING.

y:/dept26/std&spec/elec/16270.1tr.dgn

KUB CONSTRUCTION STANDARD — SINGLE-PHASE POLE-MOUNTED TRANSFORMER FED FROM SINGLE-PHASE "S" PRIMARY — LAST UPDATE: 9-3-05 CEA — ORIG DWG BY: CEA — DATE: 1-29-01 — SHEET 1 OF 1 SHEETS — DWG- 16270-1TR

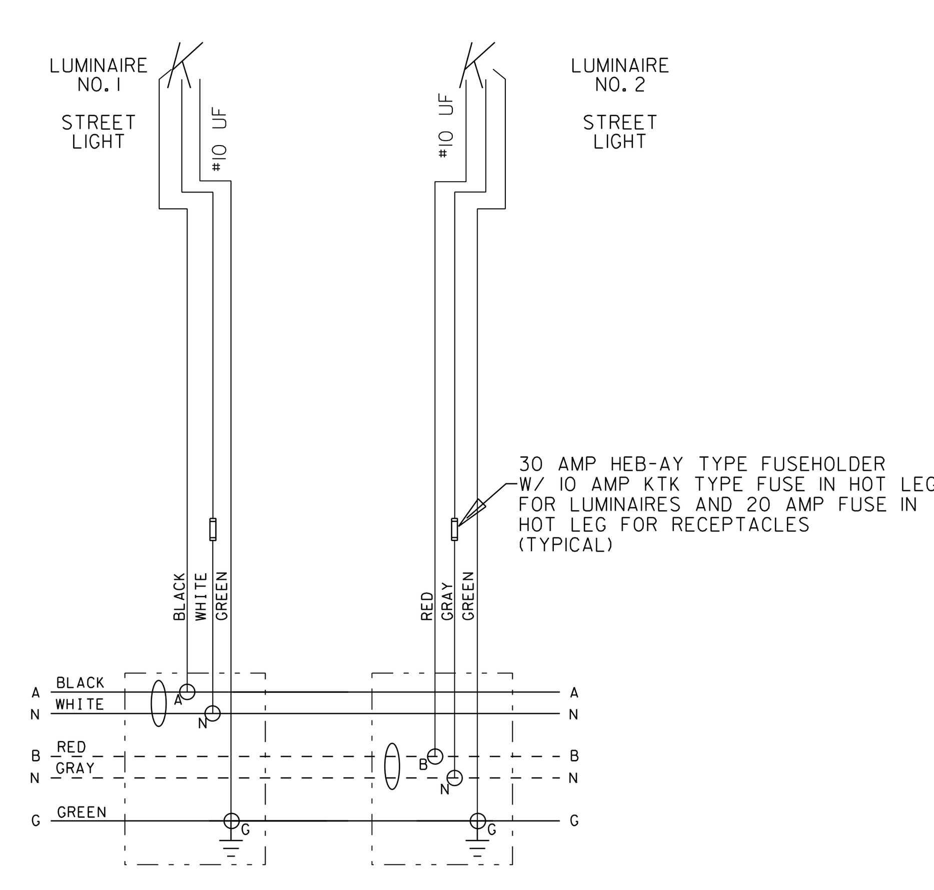
INSTALLATION NOTES:
1. ALL PHASE, NEUTRAL, & GROUND CONNECTIONS IN THE KUB SYSTEM ARE TO BE MADE WITH SPLIT-BOLT CONNECTORS & WRAPPED WITH SELF-VULCANIZING RUBBER TAPE APPLIED IN HALF LAP LAYERS TO GIVE A SMOOTH COVERING OF NOT LESS THAN 2 TIMES THE THICKNESS OF THE WIRE INSULATION. OVER THIS RUBBER TAPE APPLY AT LEAST TWO LAYERS OF HALF-LAPPED 7-MIL ULTRAVIOLET, ABRASION, MOISTURE, ALKALID, ACID, & CORROSION RESISTANT VINYL PLASTIC TAPE. WIRE NUTS ARE NEVER ALLOWED.
2. MULTIPLE LIGHTS ON SAME POLE ARE TO BE WIRED & FUSED INDEPENDENTLY AT LOCATIONS NOTED IN THE PLANS.
3. ALL WIRING BETWEEN POLES TO BE INSULATED (600V) COPPER WITH INSULATION RATED FOR DIRECT-BURIAL APPLICATIONS, (TYPE "XHHW" OR EQUIV). SIZE PER SITE PLAN.
4. MULTIPLE CIRCUITS IN SAME POLE, "T" BASE, OR PULLBOX SHALL BE COLOR-CODED WITH CIRCUIT IDENTIFICATION PER KUB DWG-A-15688. CABLES IN PULL BOXES, MANHOLES, OR VAULTS MUST ALSO BE TAGGED WITH SOLID BRASS TAG.
5. ALL WIRING FROM POLE ACCESS TO LIGHTS/RECEPTACLES SHALL BE "UF" TYPE OR RATED FOR USE IN WET LOCATIONS. SEE PLANS.



POLE WIRING DETAILS

FOR TYPE B + C ASSEMBLIES (TWO LIGHTS) WIRING SHOWN ABOVE

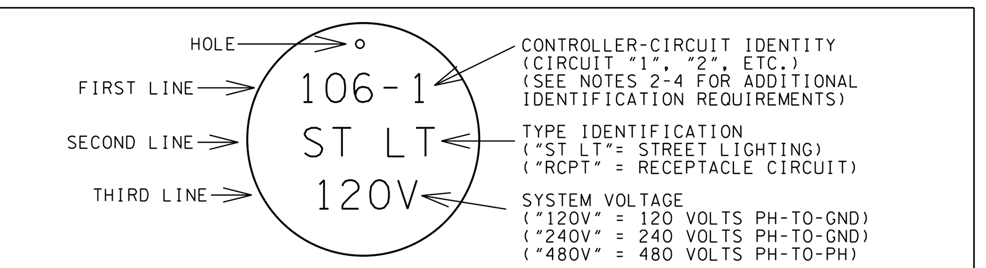
POLE FUSING DETAIL — LAST UPDATE: — ORIG DWG BY: — DATE: — SHEET OF SHEETS



NOTE: SPLIT-BOLT CONNECTIONS WRAPPED WITH RUBBER TAPE FOLLOWED WITH VINYL ELECTRICAL TAPE TO BE USED FOR ALL WIRING CONNECTIONS

TYPICAL POLE WIRING DETAIL
SCALE: N.T.S.

* LAST REVISION: NEWLY CONFIGURED SINGLE PHASE VOLTAGE CONFIGURATIONS



BRASS TAG - MANDATORY FOR ALL MANHOLES, VAULTS, & PULL BOXES

NOTE 1:
SOLID BRASS CABLE TAG SHALL BE APPROXIMATELY TWO INCHES ROUND WITH A SMALL HOLE NEAR ITS EDGE TO INSERT A TIE WIRE. LETTERS/NUMBERS SHALL BE APPROX. ONE-QUARTER INCH TALL & ENGRAVED IN THE CENTER OF THE TAG SIMILAR TO THAT SHOWN IN THE ABOVE SCALED DRAWING.

NOTE 2:
THE FIRST (TOP) LINE SHALL BE USED FOR CONTROLLER & CIRCUIT IDENTIFICATION. IN THIS LINE, THE NUMBER ON THE LEFT SHALL BE THE CONTROL CABINET NUMBER THAT IS ASSIGNED BY KUB; THE NUMBER ON THE RIGHT IS THE LIGHTING OR RECEPTACLE CIRCUIT NUMBER. EACH CIRCUIT GROUP SHALL BE BUNDLED AND LABELED WITH THIS TAG.

NOTE 3:
GROUPED PHASE CONDUCTORS #6 AWG AND SMALLER SHALL BE WRAPPED IN COLOR-CODED ELECTRICAL TAPE AT ALL TERMINATIONS, CONNECTIONS, AND SPLICE POINTS USING COLORS PER THE FOLLOWING TABLE "A" AND PER NOTES.

TABLE A - CONDUCTOR COLOR TAPE CIRCUIT CODE

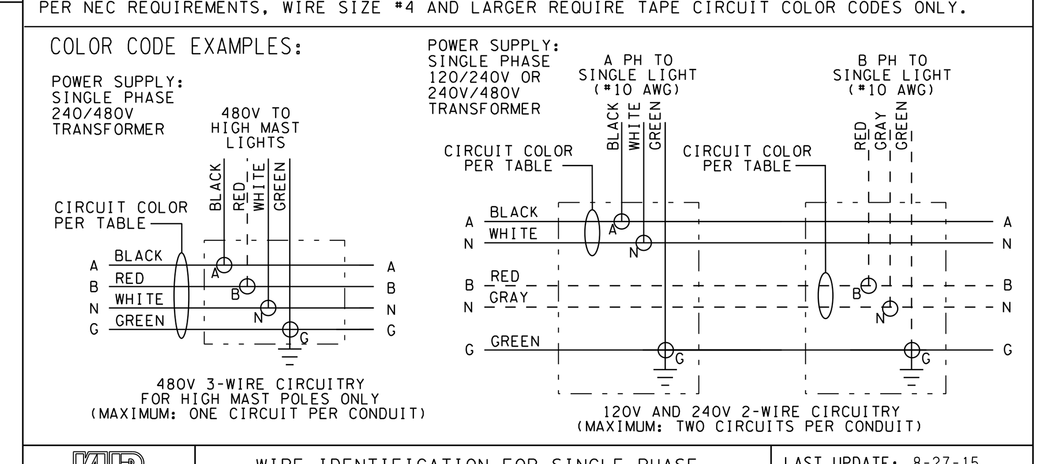
A PHASE HOT LEG IS ALWAYS BLACK	B PHASE HOT LEG IS ALWAYS RED
A PHASE NEUTRAL IS ALWAYS WHITE	B PHASE NEUTRAL IS ALWAYS GRAY

CIRCUIT IDENTIFIER COLOR CODING IS AS FOLLOWS:

CIRCUIT 1 = BLACK	CIRCUIT 5 = YELLOW
CIRCUIT 2 = RED	CIRCUIT 6 = BROWN
CIRCUIT 3 = BLUE	CIRCUIT 7 = PURPLE
CIRCUIT 4 = ORANGE	CIRCUIT 8 = VIOLET

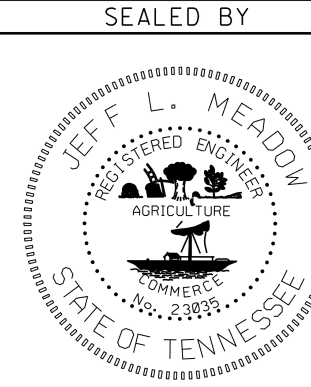
NOTE 4:
GROUPED PHASE CONDUCTORS #4 AWG SHALL USE SAME WIRE COLOR CODE FOR #6 AWG; HOWEVER. PER NEC REQUIREMENTS, WIRE SIZE #4 AND LARGER REQUIRE TAPE CIRCUIT COLOR CODES ONLY.

COLOR CODE EXAMPLES:



KUB CONSTRUCTION GUIDE — WIRE IDENTIFICATION FOR SINGLE PHASE LIGHTING CIRCUITS — LAST UPDATE: 8-27-15 — ORIG DWG BY: LGA — DATE: 11-15-13 — SHEET 1 OF 1 SHEETS — A- 15688

SEALED BY



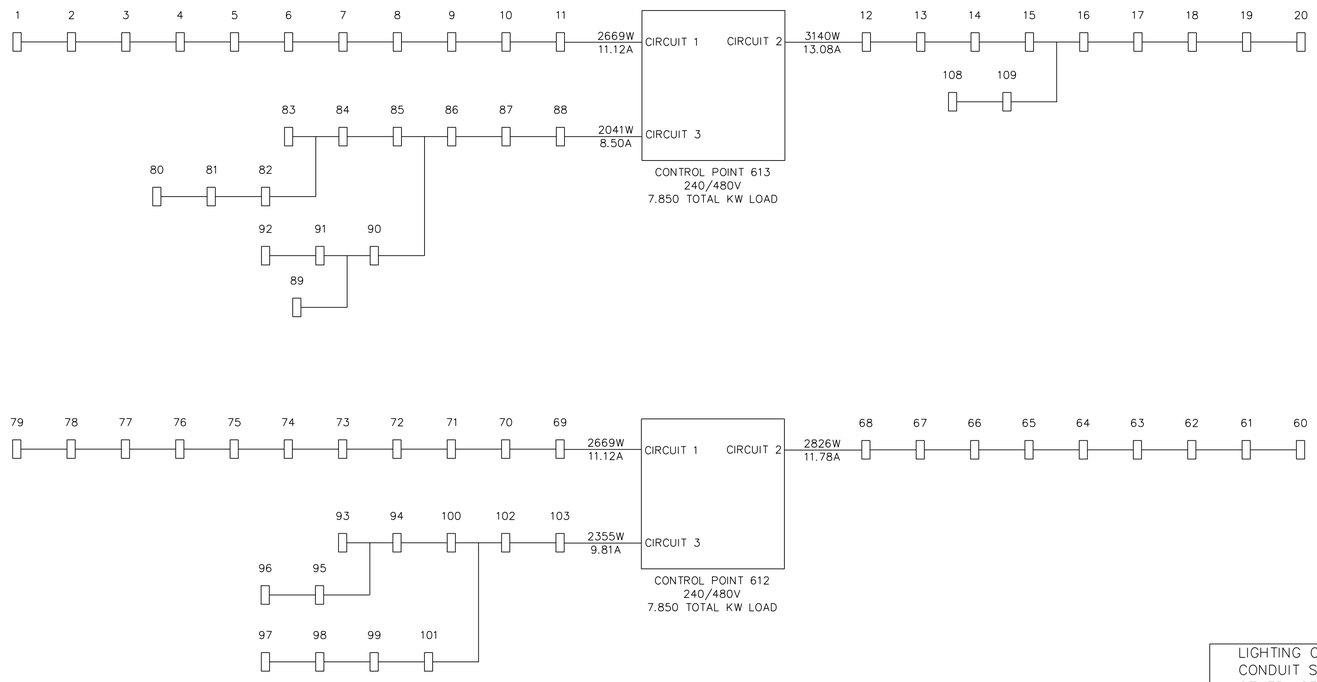
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING
LAYOUT

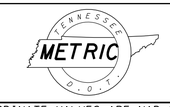
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151S

LIGHTING CIRCUIT DIAGRAM



LIGHTING CONDUCTORS SHALL BE #4 COPPER.
CONDUIT SHALL BE 2" PVC UNLESS
OTHERWISE NOTED.

SEALED BY



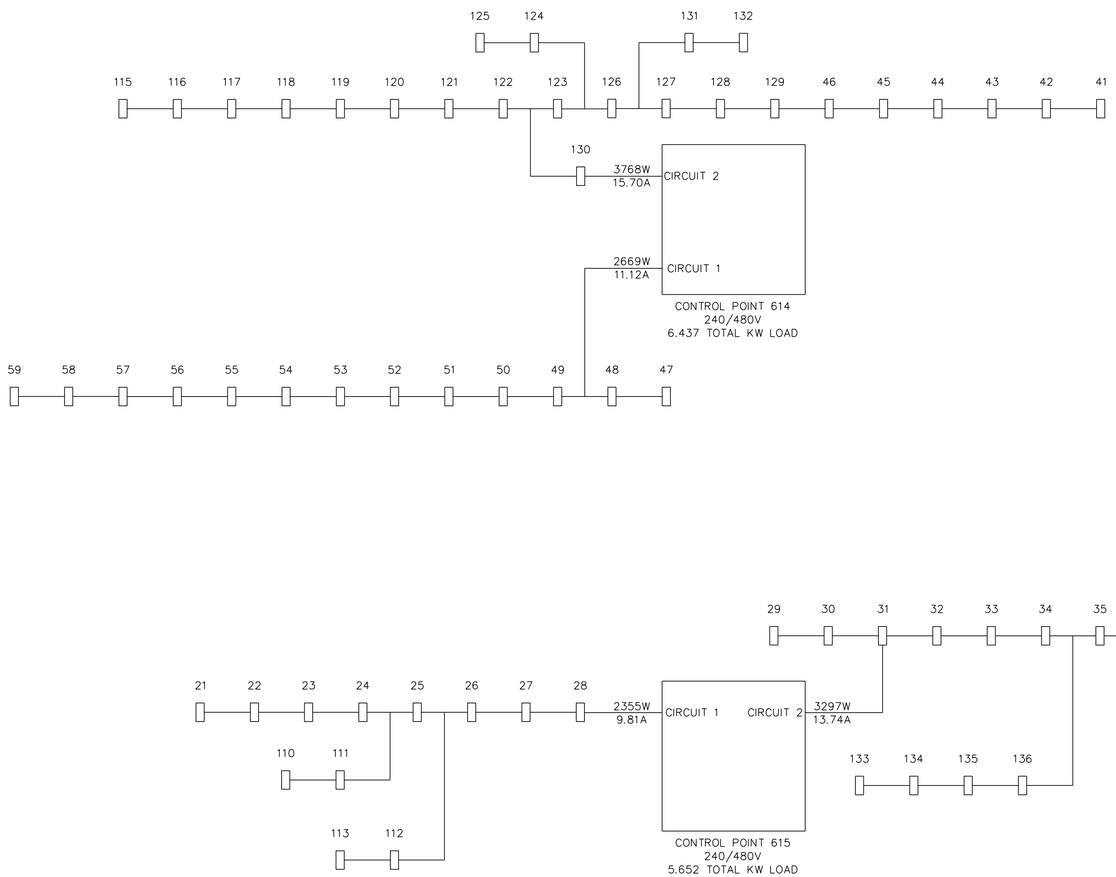
COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING
LAYOUT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3279-14	151T

LIGHTING CIRCUIT DIAGRAM



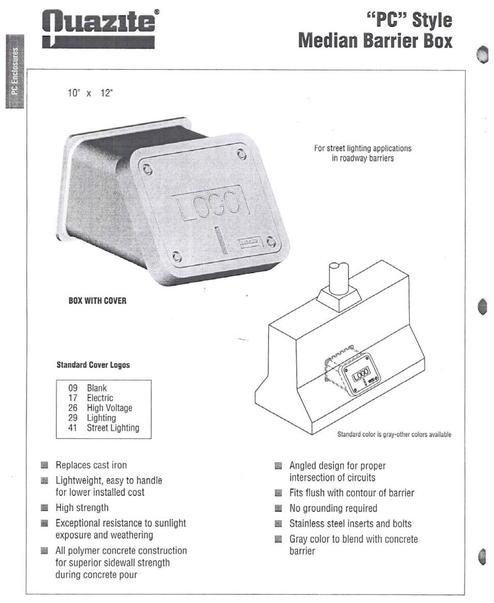
LIGHTING CONDUCTORS SHALL BE #4 COPPER.
CONDUIT SHALL BE 2" PVC UNLESS
OTHERWISE NOTED.

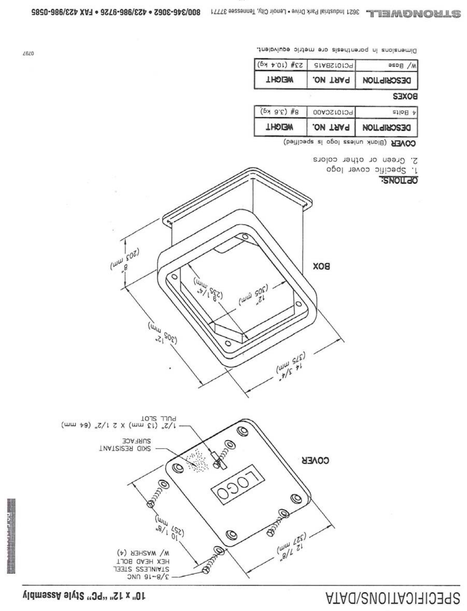
SEALED BY

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009166 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING
LAYOUT





TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	47026-3219-14	151U

SEALED BY

STATE OF TENNESSEE
JEFF L. MEADOW
REGISTERED ENGINEER
AGRICULTURE
No. 115777

TENNESSEE
METRIC
D.O.T.

COORDINATE VALUES ARE NAD 83 (1995) AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.000091668 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING
LAYOUT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	152

ESTIMATED QUANTITIES - WALL 7

WALL 7 ESTIMATED QUANTITIES

	ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
1	203M40.10	TIE-BACK ANCHORS (SOIL)	m	3575
	203M40.11	TIE-BACK ANCHORS (ROCK)	m	4331
2	204M14	CORE DRILLING FOR PILES (ROCK)	m	404
3	204M15	CORE DRILLING FOR PILES (SOIL)	m	1096
4	303M01.03	GRANULAR BACKFILL (RETAINING WALLS)	TONN	958
5	604M07.07	RETAINING WALL (WALL 7)	m^2	1166
6	604M15.02	PORTLAND CEMENT GROUT (5 MPa)	m^3	561
7	606M04.03	STEEL PILE (350mm)	m	1500
8	????? 621M05.01	TEMPORARY SHORING	m^2	1166
9	????? 624M01.01	LOAD CELLS	EACH	2
10	????? 624M03.01	RETAINING WALL REINFORCING STEEL	kg	14260
11	????? 625M01.07	PIEZOMETER	m	6
11	????? 625M01.08	INCLINOMETER	m	6
12	????? 625M02.40	DRILLED SHAFT CONCRETE	m^3	343

FOOTNOTES-WALL 7

(1) TOTAL ESTIMATED NUMBER OF ANCHORS IS 309 EACH. ANCHOR LENGTH IS COMBINATION OF MINIMUM FREE LENGTH AND ESTIMATED BOND LENGTH, ACTUAL ANCHOR LENGTH SHALL BE DETERMINED BY TESTING. THIS ITEM INCLUDES ANCHOR STRAND, ANCHOR HEAD, ANCHOR BEARING PLATE, PRIMARY AND SECONDARY ANCHOR GROUT, TRUMPET PIPE, STEEL AND PVC PIPE SLEEVES, CORRUGATED PVC SHEATH, WEDGE PLATES, COST OF STRESSING/LOAD TESTING/ACCEPTANCE, AND ANY OTHER MATERIALS NECESSARY FOR INSTALLATION OF THE ANCHOR SYSTEM. SEE SHEET "RETAINING WALL NO. 7 PILE AND ANCHOR SCHEDULES" FOR MINIMUM ANCHOR FREE LENGTH. UNCLASSIFIED SHALL BE DEFINED AS ALL MATERIALS ENCOUNTERED DURING INSTALLATION.

(2) ITEM INCLUDES FULL COMPENSATION FOR COSTS OF DRILLING, EXCAVATION, DEWATERING, AND INCIDENTAL WORK AND MATERIALS REQUIRED TO COMPLETE THE EXCAVATION. PAYMENT SHALL BE BASED AT THE CONTRACT UNIT PRICE PER VERTICAL METER OF 762mm DIAMETER SOLDIER PILE HOLES IN SOLID ROCK. SOLID ROCK IS NATURAL MATERIAL THAT IS PENETRATED WITH A ROCK AUGER AT A HOLE ADVANCEMENT RATE OF LESS THAN 250mm PER SQUARE METER OF HOLE AREA PER EACH FIFTEEN MINUTES OF CONTINUOUS DRILLING AT FULL POWER (E.G., A 915mm DIAMETER HOLE HAS APPROXIMATELY 0.65 SQUARE METERS OF AREA; SO, ADVANCEMENT RATE OF LESS THAN 178mm PER 15 MINUTES INDICATE SOLID ROCK).

(3) ITEM INCLUDES FULL COMPENSATION FOR ALL TEMPORARY STEEL CASING REQUIRED, COSTS OF DRILLING, EXCAVATION, DEWATERING, AND INCIDENTAL WORK AND MATERIALS REQUIRED TO COMPLETE THE EXCAVATION. PAYMENT SHALL BE BASED AT THE CONTRACT UNIT PRICE PER VERTICAL METER OF 915mm DIAMETER SOLDIER PILE HOLES IN OVERBURDEN SOIL. NO ADDITIONAL COMPENSATION WILL BE MADE FOR CONCRETE REQUIRED TO FILL AN OVERSIZED CASING OR FOR OVERSIZED EXCAVATION.

(4) FILL PORTION OF WALL 7 TO BE BACKFILLED WITH NO. 57 STONE. SEE TYPICAL CUT/FILL SECTION ON SHEET "RETAINING WALL 7 TYPICAL SECTIONS" FOR ADDITIONAL INFORMATION.

(5) ITEM INCLUDES ALL COSTS FOR CONCRETE, EXCAVATION, BACKFILLING, DRAINS, LABOR, MONITORING EQUIPMENT, MOMENT SLAB, STAINING, GRAFFITI PROTECTION, FORM LINER & FINISH, TEXTURE COATING, AND SHEAR STUDS MEASURED FROM TOP OF WALL TO BOTTOM OF WALL. SEE 620-05.01 FOR PARAPET.

(6) ITEM SHALL BE LEAN MIX CONCRETE: TYPE I OR II PORTLAND CEMENT, FINE AGGREGATE, AND WATER. EACH CUBIC METER OF LEAN MIX CONCRETE SHALL CONSIST OF A MINIMUM OF ONE SACK (42.7 KG) OF PORTLAND CEMENT. LEAN MIX SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 5 MPa. LEAN MIX SHALL BE USED FOR BACKFILLING SOLDIER PILE DRILL HOLES ABOVE FINAL GRADE TO FACILITATE PLACEMENT OF WOOD LAGGING.

(7) ITEM INCLUDES STEEL PILE (HP360X109 - 162 PILES APPROXIMATELY 1500m) AND FABRICATION (INCLUDING ALL CUTS AND STIFFENER PLATES). PILES TO BE ASTM A572M GRADE 350.

(8) ITEM INCLUDES ALL LAGGING TIMBER, ATTACHMENT CLIPS, CONTINUOUS VERTICAL DRAIN, DRAINAGE GRATE, PVC DRAIN PIPE, AND ANY OTHER MATERIALS NECESSARY FOR INSTALLATION OF THE LAGGING AND DRAINAGE SYSTEM.

(9) ITEM FOR INSTALLATION OF 1780 kN CENTER HOLE LOAD CELLS. LOAD CELLS SHALL BE INSTALLED ON PILE P56 AS SHOWN IN PROFILE.

(10) ITEM FOR RETAINING WALL FACE, SEE SHEET "RETAINING WALL NO. 7 TYPICAL SECTIONS" FOR BAR SPACING.

(11) ITEMS FOR INSTALLATION OF INSTRUMENTATION TO MONITOR WALL. SEE SHEET "RETAINING WALL NO. 7 PROFILE" FOR LOCATIONS AND DEPTHS.

(12) ITEM SHALL BE STRUCTURAL MIX, CLASS A CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 28 MPa. STRUCTURAL MIX SHALL BE USED BELOW FINAL GRADE TO TRANSFER VERTICAL LOAD (FROM THE VERTICAL COMPONENT OF THE TIEBACK ANCHORS) APPLIED TO THE SOLDIER PILE THROUGH THE CONCRETE INTO THE SURROUNDING SOIL.

ESTIMATED QUANTITIES - WALL 8

WALL 8 ESTIMATED QUANTITIES

	ITEM #	ITEM DESCRIPTION	UNIT	QUANTITY
1	203M40.10	TIE-BACK ANCHORS (SOIL)	m	20771
	203M40.11	TIE-BACK ANCHORS (ROCK)	m	10708
2	204M14	CORE DRILLING FOR PILES (ROCK)	m	1953
3	204M15	CORE DRILLING FOR PILES (SOIL)	m	4036
4	203M40.13	SUPPLEMENTAL WALERS	EACH	4
5	303M01.03	GRANULAR BACKFILL (RETAINING WALLS)	TONN	287
6	604M07.08	RETAINING WALL (WALL 8)	m^2	6678
7	604M15.02	PORTLAND CEMENT GROUT (5 MPa)	m^3	7478
8	606M04.03	STEEL PILE (350mm)	m	5988
9	????? 621M05.01	TEMPORARY SHORING	m^2	6678
10	????? 624M01.01	LOAD CELLS	EACH	4
11	????? 624M03.01	RETAINING WALL REINFORCING STEEL	kg	81602
12	????? 625M01.07	PIEZOMETER	m	34
12	????? 625M01.08	INCLINOMETER	m	34
13	????? 625M02.40	DRILLED SHAFT CONCRETE	m^3	4049
	711M05.76	SINGLE SLOPE HALF CONCRETE BARRIER WALL (STD S-SSMB-3)	m	572

FOOTNOTES-WALL 8

(1) TOTAL ESTIMATED NUMBER OF ANCHORS IS 1146 EACH. ANCHOR LENGTH IS COMBINATION OF MINIMUM FREE LENGTH AND ESTIMATED BOND LENGTH, ACTUAL ANCHOR LENGTH SHALL BE DETERMINED BY TESTING. THIS ITEM INCLUDES ANCHOR STRAND, ANCHOR HEAD, ANCHOR BEARING PLATE, PRIMARY AND SECONDARY ANCHOR GROUT, TRUMPET PIPE, STEEL AND PVC PIPE SLEEVES, CORRUGATED PVC SHEATH, WEDGE PLATES, COST OF STRESSING/LOAD TESTING/ACCEPTANCE, AND ANY OTHER MATERIALS NECESSARY FOR INSTALLATION OF THE ANCHOR SYSTEM. SEE SHEET "RETAINING WALL NO. 8 PILE AND ANCHOR SCHEDULES" FOR MINIMUM ANCHOR FREE LENGTH. UNCLASSIFIED SHALL BE DEFINED AS ALL MATERIALS ENCOUNTERED DURING INSTALLATION.

(2) ITEM INCLUDES FULL COMPENSATION FOR COSTS OF DRILLING, EXCAVATION, DEWATERING, AND INCIDENTAL WORK AND MATERIALS REQUIRED TO COMPLETE THE EXCAVATION. PAYMENT SHALL BE BASED AT THE CONTRACT UNIT PRICE PER VERTICAL METER OF 762mm DIAMETER SOLDIER PILE HOLES IN SOLID ROCK. SOLID ROCK IS NATURAL MATERIAL THAT IS PENETRATED WITH A ROCK AUGER AT A HOLE ADVANCEMENT RATE OF LESS THAN 250mm PER SQUARE METER OF HOLE AREA PER EACH FIFTEEN MINUTES OF CONTINUOUS DRILLING AT FULL POWER (E.G., A 915mm DIAMETER HOLE HAS APPROXIMATELY 0.65 SQUARE METERS OF AREA; SO, ADVANCEMENT RATE OF LESS THAN 178mm PER 15 MINUTES INDICATE SOLID ROCK).

(3) ITEM INCLUDES FULL COMPENSATION FOR ALL TEMPORARY STEEL CASING REQUIRED, COSTS OF DRILLING, EXCAVATION, DEWATERING, AND INCIDENTAL WORK AND MATERIALS REQUIRED TO COMPLETE THE EXCAVATION. PAYMENT SHALL BE BASED AT THE CONTRACT UNIT PRICE PER VERTICAL METER OF 915mm DIAMETER SOLDIER PILE HOLES IN OVERBURDEN SOIL. NO ADDITIONAL COMPENSATION WILL BE MADE FOR CONCRETE REQUIRED TO FILL AN OVERSIZED CASING OR FOR OVERSIZED EXCAVATION.

(4) FILL PORTION OF WALL 8 TO BE BACKFILLED WITH NO. 57 STONE. SEE TYPICAL CUT/FILL SECTION ON SHEET "RETAINING WALL 8 TYPICAL SECTIONS" FOR ADDITIONAL INFORMATION.

(5) ITEM INTENDED FOR USE WHERE ADDITIONAL ANCHORS ARE REQUIRED TO REPLACE ABANDONED OR FAILED ANCHORS, SEE SHEET "RETAINING WALL NO. 8 SUPPLEMENTAL WALER DETAILS" FOR MORE INFORMATION.

(6) ITEM INCLUDES ALL COSTS FOR CONCRETE, EXCAVATION, BACKFILLING, DRAINS, LABOR, MONITORING EQUIPMENT, MOMENT SLAB, STAINING, GRAFFITI PROTECTION, FORM LINER & FINISH, TEXTURE COATING, AND SHEAR STUDS MEASURED FROM TOP OF WALL TO BOTTOM OF WALL. SEE 620-05.01 FOR PARAPET.

(7) ITEM SHALL BE LEAN MIX CONCRETE: TYPE I OR II PORTLAND CEMENT, FINE AGGREGATE, AND WATER. EACH CUBIC METER OF LEAN MIX CONCRETE SHALL CONSIST OF A MINIMUM OF ONE SACK (42.7 KG) OF PORTLAND CEMENT. LEAN MIX SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 5 MPa. LEAN MIX SHALL BE USED FOR BACKFILLING SOLDIER PILE DRILL HOLES ABOVE FINAL GRADE TO FACILITATE PLACEMENT OF WOOD LAGGING.

(8) ITEM INCLUDES STEEL PILE (HP360X109 - 87 PILES APPROXIMATELY 1215m, HP360X132 - 179 PILES APPROXIMATELY 3252m, HP360X152 - 21 PILES APPROXIMATELY 641m, AND HP360X174 - 27 PILES APPROXIMATELY 881m) AND FABRICATION (INCLUDING ALL CUTS AND STIFFENER PLATES). PILES TO BE ASTM A572M GRADE 350.

(9) ITEM INCLUDES ALL LAGGING TIMBER, ATTACHMENT CLIPS, CONTINUOUS VERTICAL DRAIN, DRAINAGE GRATE, PVC DRAIN PIPE, AND ANY OTHER MATERIALS NECESSARY FOR INSTALLATION OF THE LAGGING AND DRAINAGE SYSTEM.

(10) ITEM FOR INSTALLATION OF 1780 kN CENTER HOLE LOAD CELLS. LOAD CELLS SHALL BE INSTALLED ON PILE P196 AND PILE P246 AS SHOWN IN PROFILE.

(11) ITEM FOR RETAINING WALL FACE, SEE SHEET "RETAINING WALL NO. 8 TYPICAL SECTIONS" FOR BAR SPACING.

(12) ITEMS FOR INSTALLATION OF INSTRUMENTATION TO MONITOR WALL. SEE SHEET "RETAINING WALL NO. 8 PROFILE" FOR LOCATIONS AND DEPTHS.

(13) ITEM SHALL BE STRUCTURAL MIX, CLASS A CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 28 MPa. STRUCTURAL MIX SHALL BE USED BELOW FINAL GRADE TO TRANSFER VERTICAL LOAD (FROM THE VERTICAL COMPONENT OF THE TIEBACK ANCHORS) APPLIED TO THE SOLDIER PILE THROUGH THE CONCRETE INTO THE SURROUNDING SOIL.

PRELIMINARY

PLANS

TENNESSEE METRIC

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

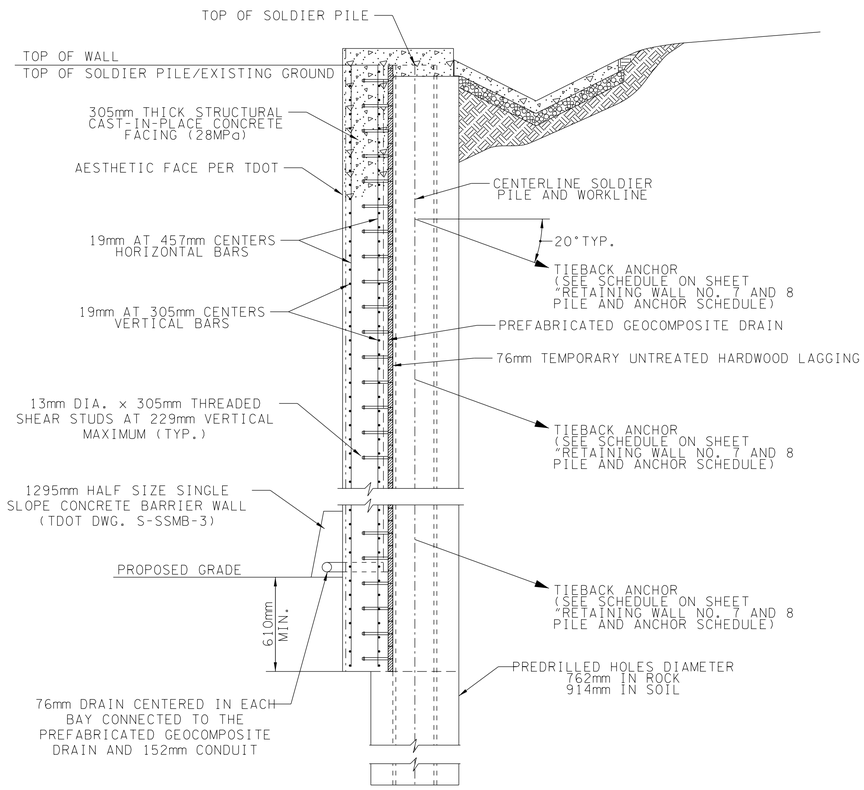
ESTIMATED QUANTITIES RETAINING WALLS NO. 7 AND 8

STA. 5+703 TO STA. 6+000

SCALE: AS NOTED

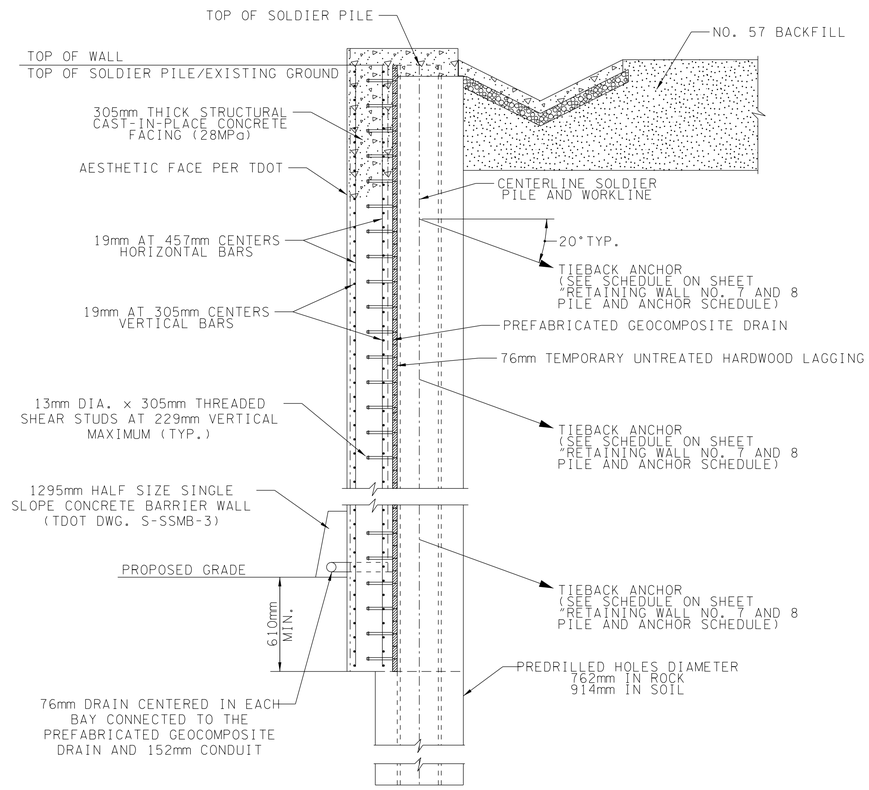
9/10/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\07_retaining walls 7 and 8 items list-est-qtys-notes.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
			153



TYPICAL CUT WALL SECTION

NOT TO SCALE



TYPICAL CUT/FILL WALL SECTION

NOT TO SCALE

NOTES:

1. SEE SHEET "RETAINING WALLS NO. 7 & NO. 8 DETAILS" AND SHEET "RETAINING WALLS NO.7 & NO. 8 ANCHOR DETAILS" FOR ADDITIONAL INFORMATION ON DRAINBOARD, SHEAR STUDS, CONTROL/EXPANSION JOINTS, ANCHOR, AND ANCHOR CONNECTIONS.

2. THE MINIMUM DEPTH OF PILE BELOW BOTTOM OF WALL IN SOLID ROCK SHALL BE 1.5m.

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TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

PRELIMINARY

PLANS

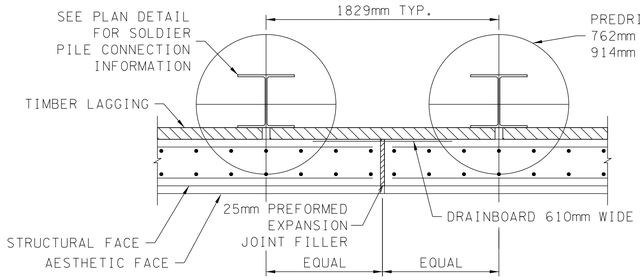
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL WALL SECTIONS RETAINING WALLS NO. 7 AND 8

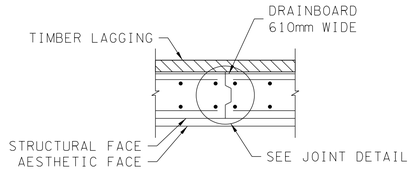
SCALE: AS NOTED

9/10/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\17_TYPICAL SECTIONS RETAINING WALL 7 AND 8.sht

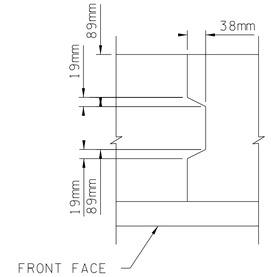
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P8
			154



EXPANSION JOINT PLAN DETAIL

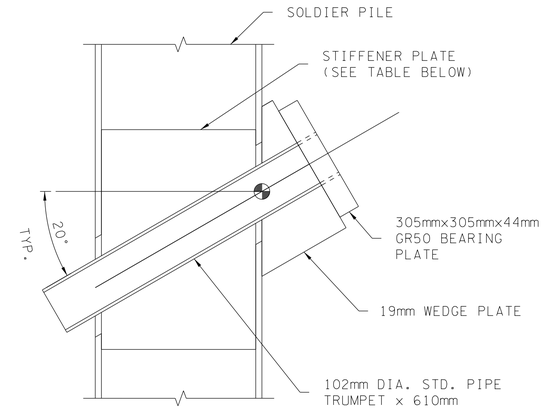


CONTRACTION JOINT PLAN DETAIL



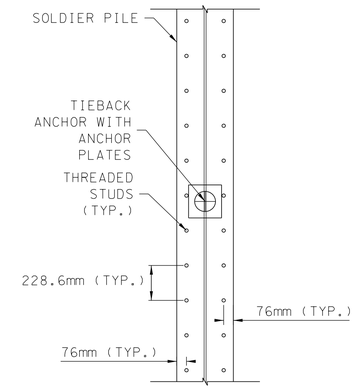
JOINT DETAIL

NOTE: STRUCTURAL FACING AND TEMPORARY LAGGING NOT SHOWN FOR CLARITY.

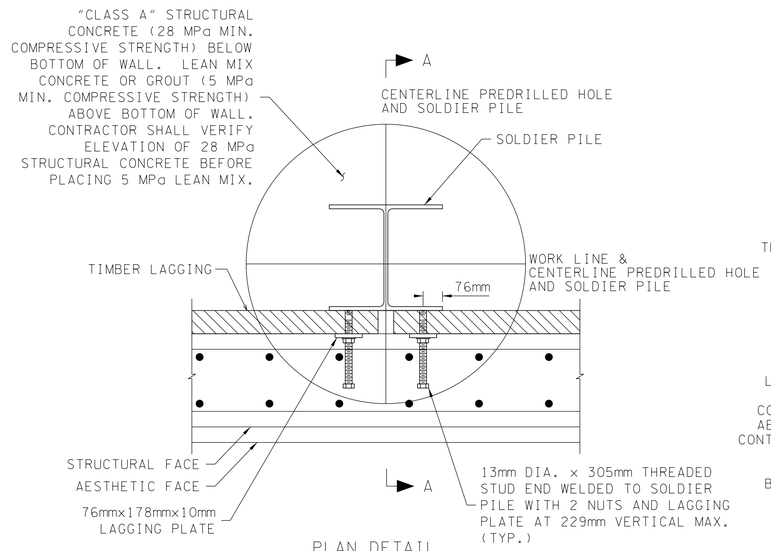


PILE SIZE	MAX. ANCHOR LOAD (KN)	STIFFENER PLATE SIZE
HP360x109	623	320mm x 711mm x 25mm
HP360x132	667	320mm x 711mm x 25mm
HP360x152	712	320mm x 711mm x 25mm
HP360x174	712	320mm x 711mm x 25mm

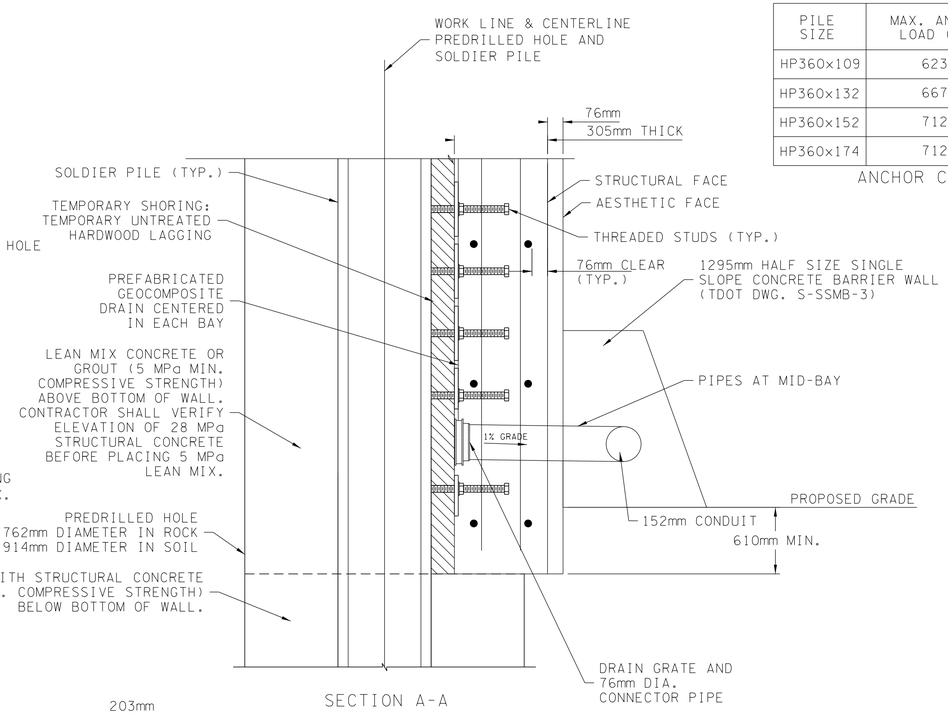
ANCHOR CONNECTION DETAIL



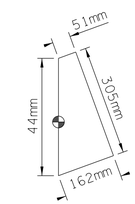
SOLDIER PILE ELEVATION



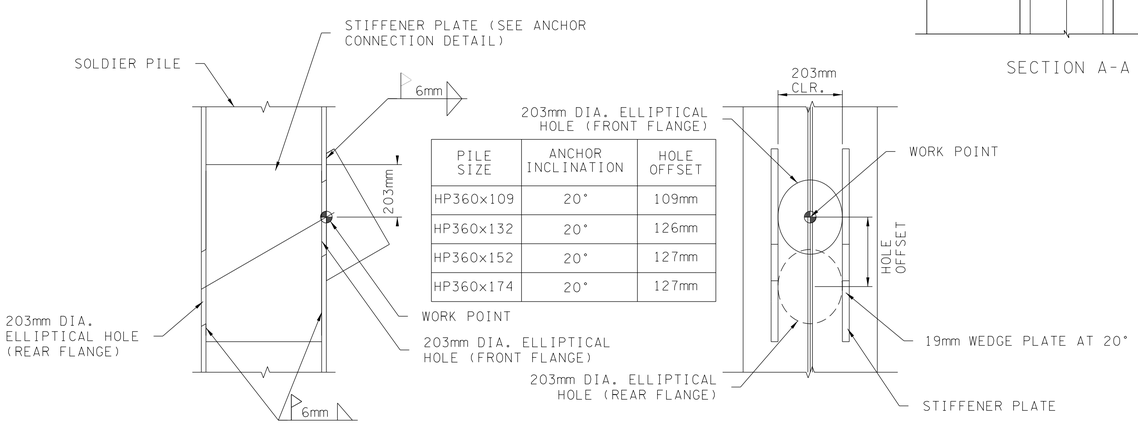
PLAN DETAIL



SECTION A-A



19mm THICK WEDGE PLATES (20°ANCHOR INCLINATION)



PILE SIZE	ANCHOR INCLINATION	HOLE OFFSET
HP360x109	20°	109mm
HP360x132	20°	126mm
HP360x152	20°	127mm
HP360x174	20°	127mm

PILE FABRICATION DETAIL

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

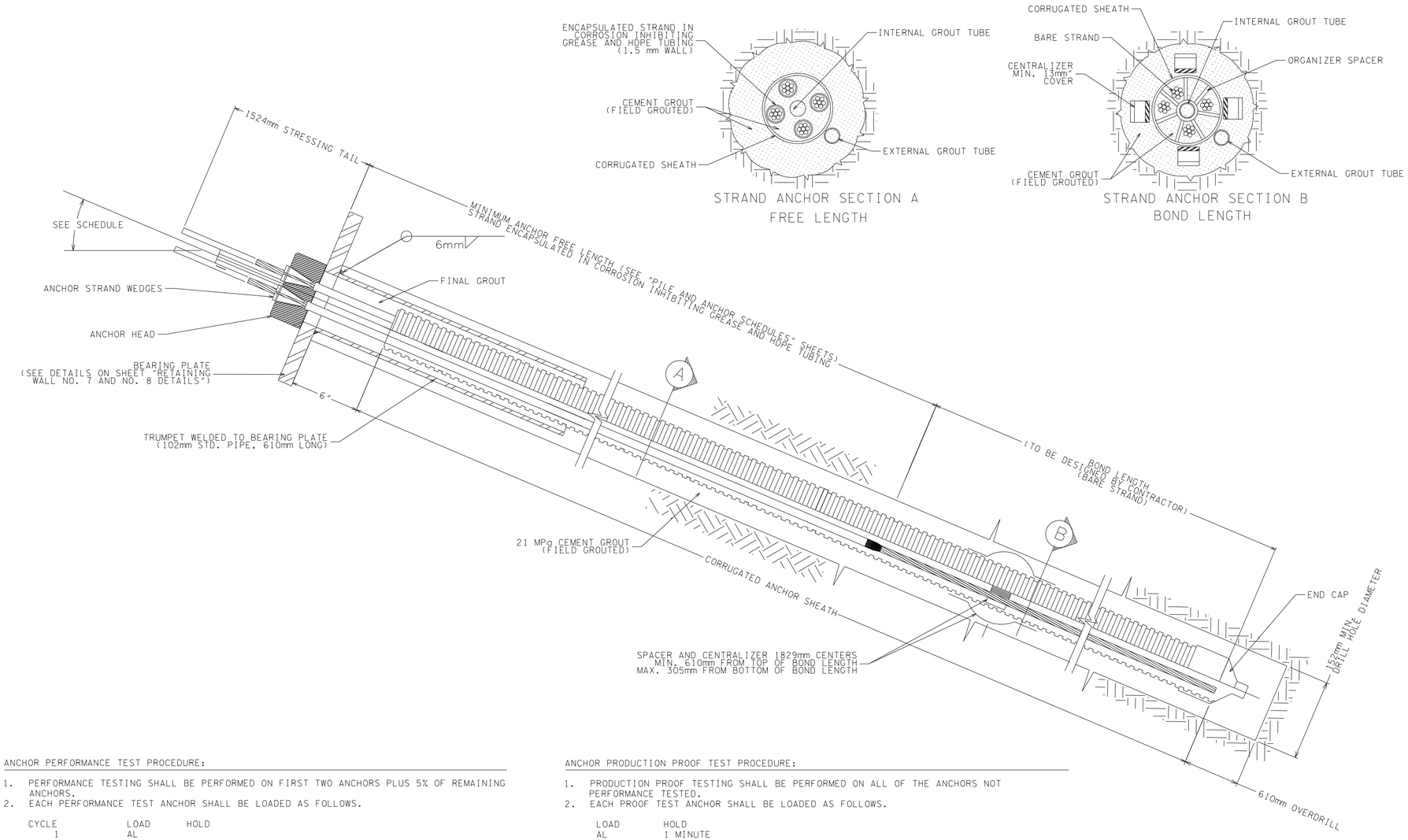
PRELIMINARY PLANS

DETAILS RETAINING WALLS NO. 7 AND 8

SCALE: AS NOTED

9/10/2015
R:_Infrastructure Project Files\2015 Infra Projects\T68I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\18.DETAILS RETAINING WALL 7 AND 8.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P8
			155



ANCHOR PERFORMANCE TEST PROCEDURE:

1. PERFORMANCE TESTING SHALL BE PERFORMED ON FIRST TWO ANCHORS PLUS 5% OF REMAINING ANCHORS.
2. EACH PERFORMANCE TEST ANCHOR SHALL BE LOADED AS FOLLOWS.

CYCLE	LOAD	HOLD
1	AL	
	0.25P	2 MINUTES
2	AL	
	0.25P	2 MINUTES
	0.50P	2 MINUTES
3	AL	
	0.25P	2 MINUTES
	0.50P	2 MINUTES
	0.75P	2 MINUTES
4	AL	
	0.25P	2 MINUTES
	0.50P	2 MINUTES
	0.75P	2 MINUTES
	1.00P	2 MINUTES
5	AL	
	0.25P	2 MINUTES
	0.50P	2 MINUTES
	0.75P	2 MINUTES
	1.00P	2 MINUTES
	1.20P	2 MINUTES
6	AL	
	0.25P	2 MINUTES
	0.50P	2 MINUTES
	0.75P	2 MINUTES
	1.00P	2 MINUTES
	1.20P	2 MINUTES
	1.33P	HOLD FOR CREEP TEST
	AL	

WHERE AL = ALIGNMENT LOAD (.05 P)
AND P = DESIGN TEST LOAD

3. THE TEST ANCHOR SHALL BE MONITORED FOR CREEP AT THE 1.33P LOAD INCREMENT. TOTAL ELONGATIONS SHALL BE RECORDED AT 1,2,3,4,5,6,10,15,20,25,30,45 AND 60 MINUTES.
4. AFTER A SUCCESSFUL PERFORMANCE TEST, THE ANCHOR SHALL BE RE-STRESSED TO DESIGN LOAD AND LOCKED-OFF. A LIFT-OFF TEST SHALL BE PERFORMED TO DETERMINE THE LOAD IN THE ANCHOR (SEE PROOF TEST PROCEDURE).

ANCHOR PRODUCTION PROOF TEST PROCEDURE:

1. PRODUCTION PROOF TESTING SHALL BE PERFORMED ON ALL OF THE ANCHORS NOT PERFORMANCE TESTED.
2. EACH PROOF TEST ANCHOR SHALL BE LOADED AS FOLLOWS.

LOAD	HOLD
AL	1 MINUTE
0.25P	2 MINUTES
0.50P	2 MINUTES
0.75P	2 MINUTES
1.00P	2 MINUTES
1.20P	2 MINUTES
1.33P	HOLD FOR CREEP TEST

WHERE AL = ALIGNMENT LOAD (.05 P)
AND P = DESIGN TEST LOAD

3. HOLD EACH INCREMENT OF LOADING UNTIL THE LOAD STABILIZES AND RECORD ELONGATION.
4. AT 1.33P, TOTAL ELONGATION SHALL BE RECORDED AT 1,2,3,4,5,6,10 MINUTE INTERVALS. IF THE ELONGATION BETWEEN THE 1 MINUTE AND 10 MINUTE READINGS EXCEEDS 1.0 MILLIMETERS, THE MAXIMUM TEST LOAD SHALL BE HELD AN ADDITIONAL 50 MINUTES AND ELONGATIONS SHALL BE RECORDED AT 10,15,20,25,30,45 AND 60 MINUTES.
5. AFTER COMPLETION OF A SUCCESSFUL PROOF TEST, A LIFT-OFF TEST SHALL BE PERFORMED TO DETERMINE THE LOAD IN THE ANCHOR. IF THE LIFT-OFF LOAD IS LESS THAN 95% OF P, THE END ANCHORAGE SHALL BE RESET AND ANOTHER LIFT-OFF READING MADE.

ANCHOR ACCEPTANCE CRITERIA:

TEST ANCHORS SHALL BE CONSIDERED ACCEPTABLE IF RESULTS MEET ALL REQUIREMENTS OF SPECIFICATIONS AND:

1. THE TOTAL ELASTIC MOVEMENT OBTAINED FROM A PERFORMANCE OR PROOF TEST EXCEEDS 80% OF THE THEORETICAL ELONGATION OF THE FREE STRESSING LENGTH, BUT DOES NOT EXCEED THE THEORETICAL ELONGATION OF THE FREE STRESSING LENGTH PLUS 50% OF THE BOND LENGTH OF THE ANCHOR.
2. THE CREEP AMOUNT OBTAINED FROM A PERFORMANACE OR PROOF TEST DOES NOT EXCEED 1mm DURING THE PERIOD OF 1 MINUTE TO 10 MINUTES. IF THIS VALUE IS EXCEEDED, THEN THE TOTAL CREEP MOVEMENT WITHIN THE PERIOD OF 6 TO 60 MINUTES SHALL NOT EXCEED 2mm.

PRELIMINARY

PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

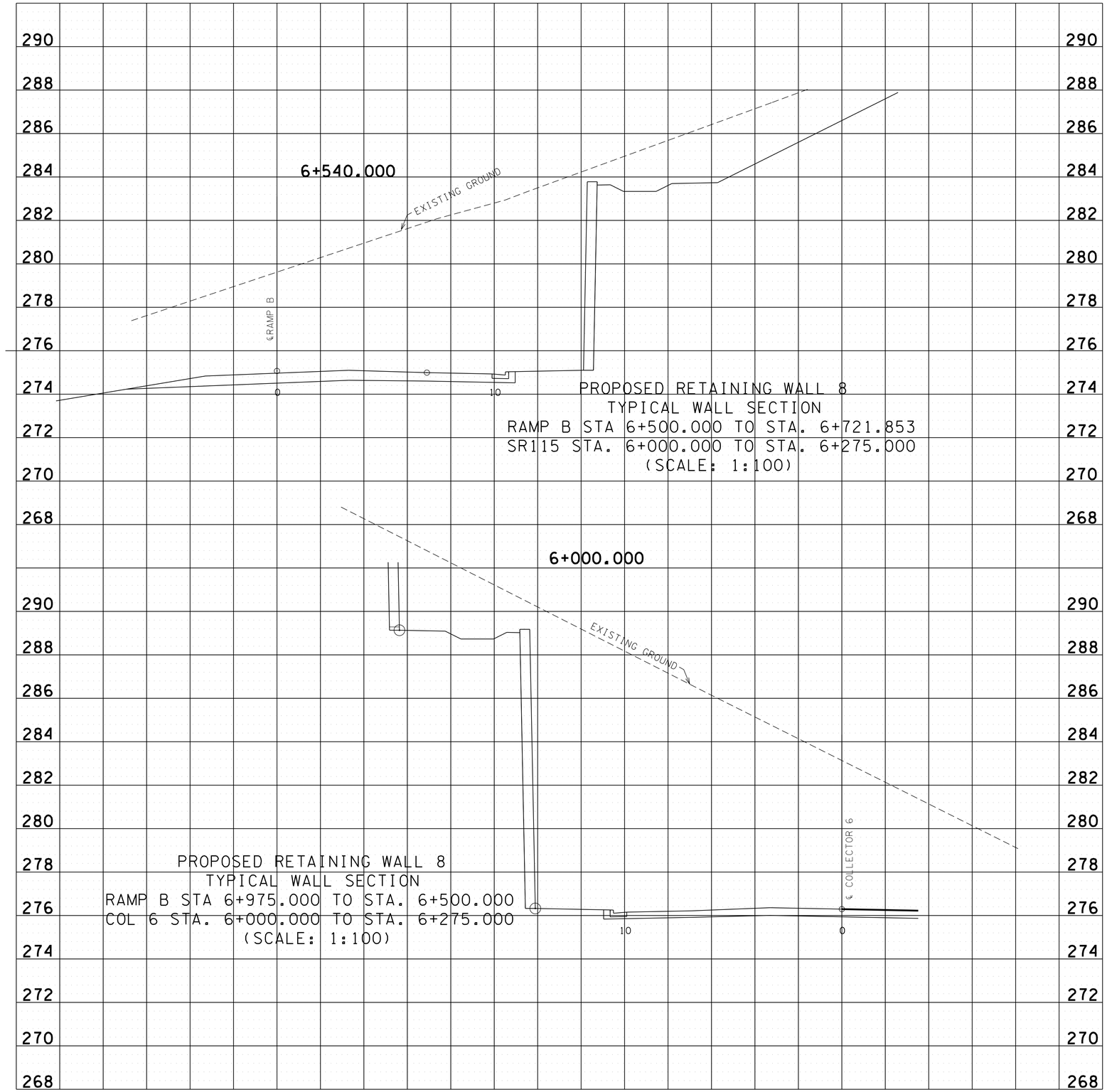
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ANCHOR DETAILS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/10/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\19_ANCHOR DETAILS RETAINING WALL 7 AND 8.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P10
			156



MATERIAL DESCRIPTION PATTERNS

- Topsoil
- Silty Clay
- Low to High Plasticity Clay
- Low Plasticity Clay
- Poorly-graded Sand with Clay
- Sandy Silt
- Clayey Gravel
- Poorly-graded Sand
- BT BORING TERMINATED

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY

PLANS

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

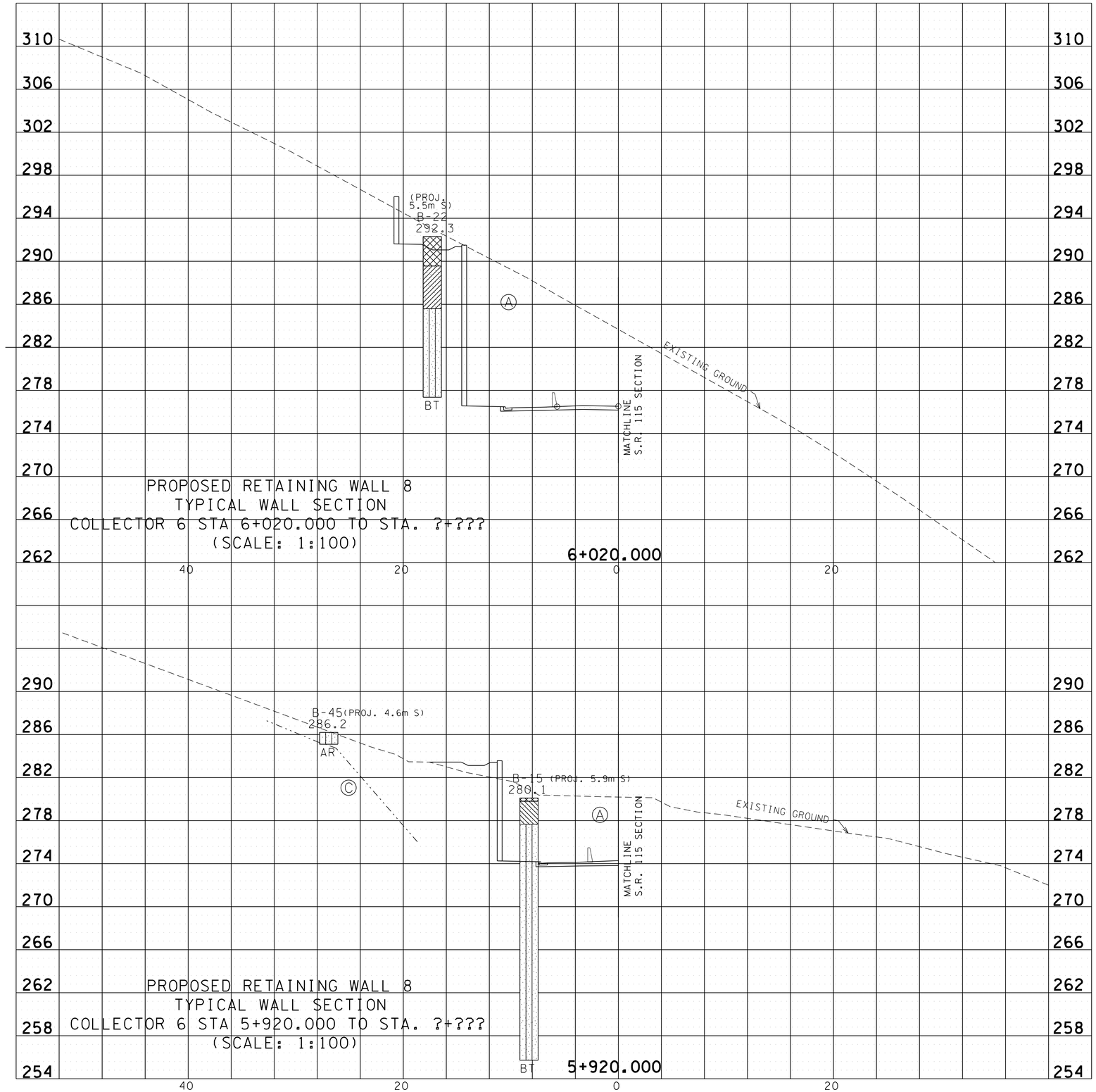
TYPICAL GEOLOGICAL SECTIONS RETAINING WALL 7 AND 8

STA. 5+920.000 TO STA 6+275.000

SCALE: AS NOTED

9/10/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16_RETAINING WALL 7 AND 8 TYPICAL GEOLOGIC CROSS SECTIONS.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P10
			157



MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

- FILL (MADE GROUND)
- LOW PLASTICITY SANDY CLAY
- SILTY SAND
- BT BORING TERMINATED
- AR AUGER REFUSAL

SOIL DESCRIPTIONS

- (A) SOIL

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

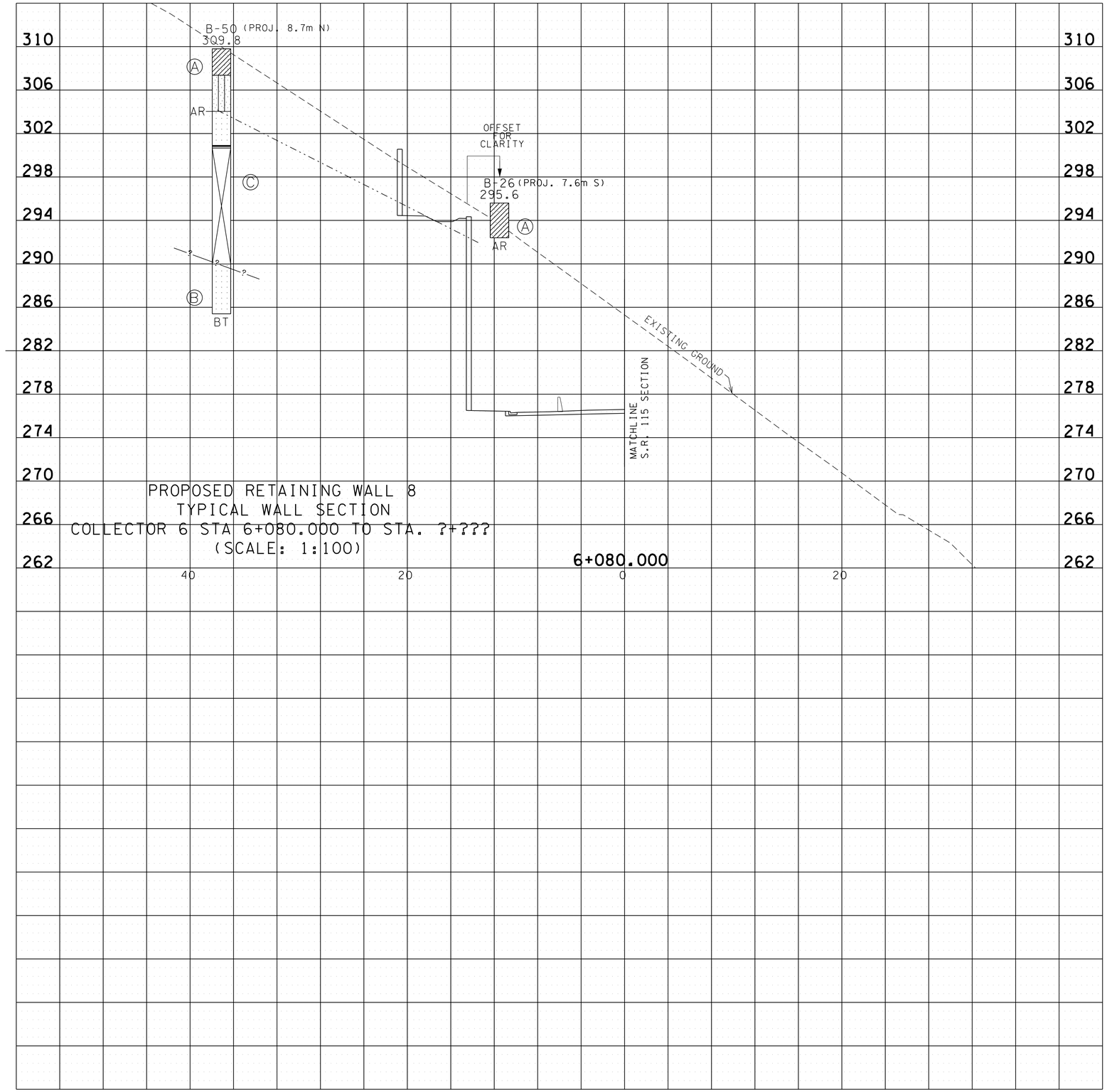
TYPICAL GEOLOGICAL SECTIONS RETAINING WALL 7 AND 8

STA. 5+920.000
TO STA 6+275.000

SCALE: AS NOTED

9/10/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\7_RETAINING WALL 8 TYPICAL GEOLOGIC CROSS SECTIONS.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P10
			158



PROPOSED RETAINING WALL 8
TYPICAL WALL SECTION
COLLECTOR 6 STA 6+080.000 TO STA. ?+???
(SCALE: 1:100)

MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

- FILL (MADE GROUND)
- LOW PLASTICITY SANDY CLAY
- SILTY SAND
- SANDSTONE
- OPEN CAVITY
- NO RECOVERY
- BT BORING TERMINATED
- AR AUGER REFUSAL

SOIL DESCRIPTIONS

- (A) SOIL
- (B) SOUND ROCK
- (C) WEATHERED ROCK

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

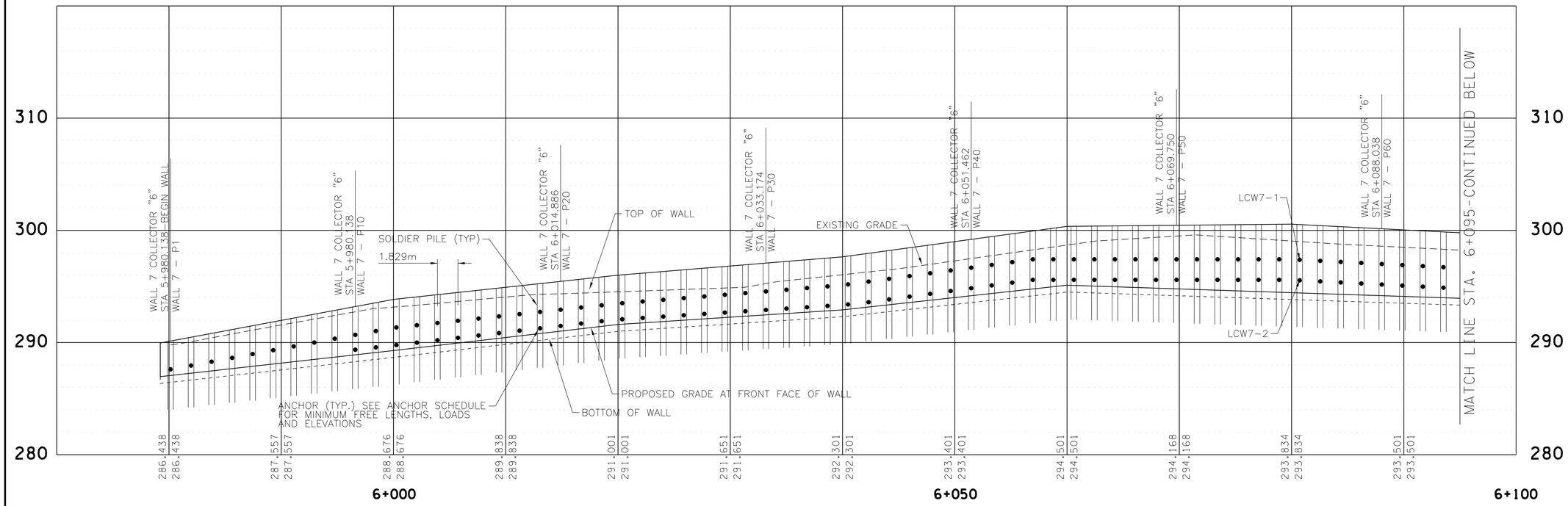
TYPICAL GEOLOGICAL SECTIONS RETAINING WALL 7 AND 8

STA. 5+920.000
TO STA 6+275.000

SCALE: AS NOTED

9/10/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\18_RETAINING WALL 7 AND 8 TYPICAL GEOLOGIC CROSS SECTIONS.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P8
			159



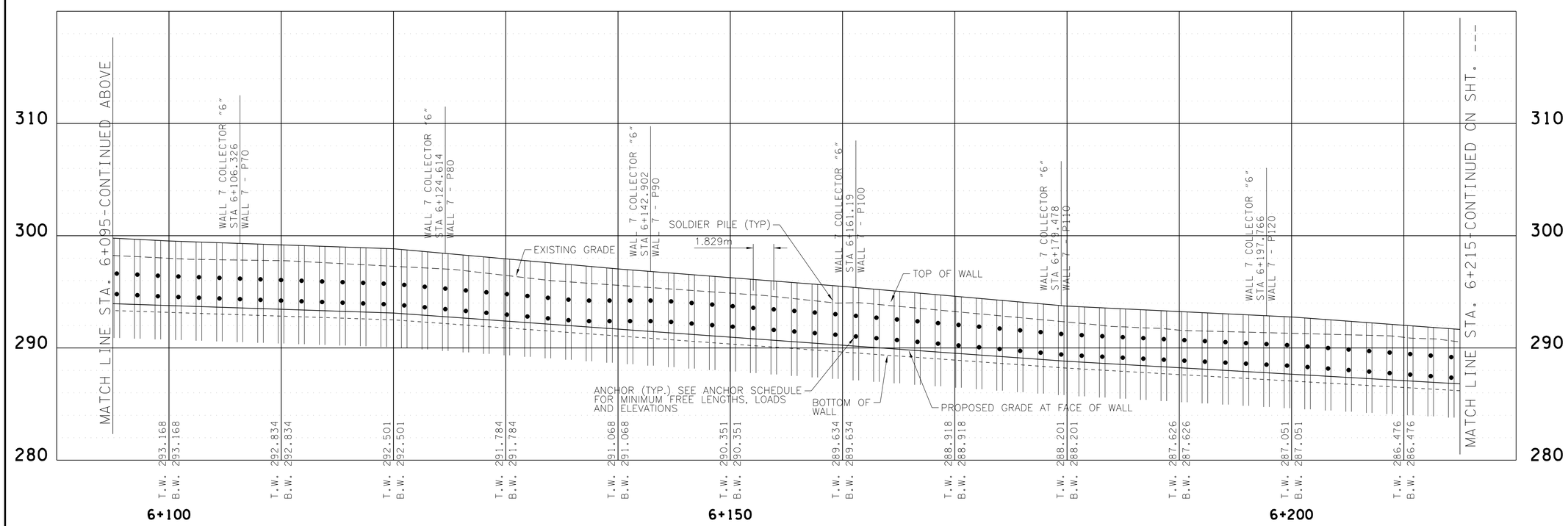
LEGEND

TW EL 283.390 — TOP OF WALL ELEVATION (EXCLUDES BARRIER WALL)

BW EL 273.400 — BOTTOM OF WALL ELEVATION

PILE AND ANCHORS

LCW7-1 — LOAD CELL (1-TOP ANCHOR, 2-BOTTOM ANCHOR)



PRELIMINARY PLANS

METRIC

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

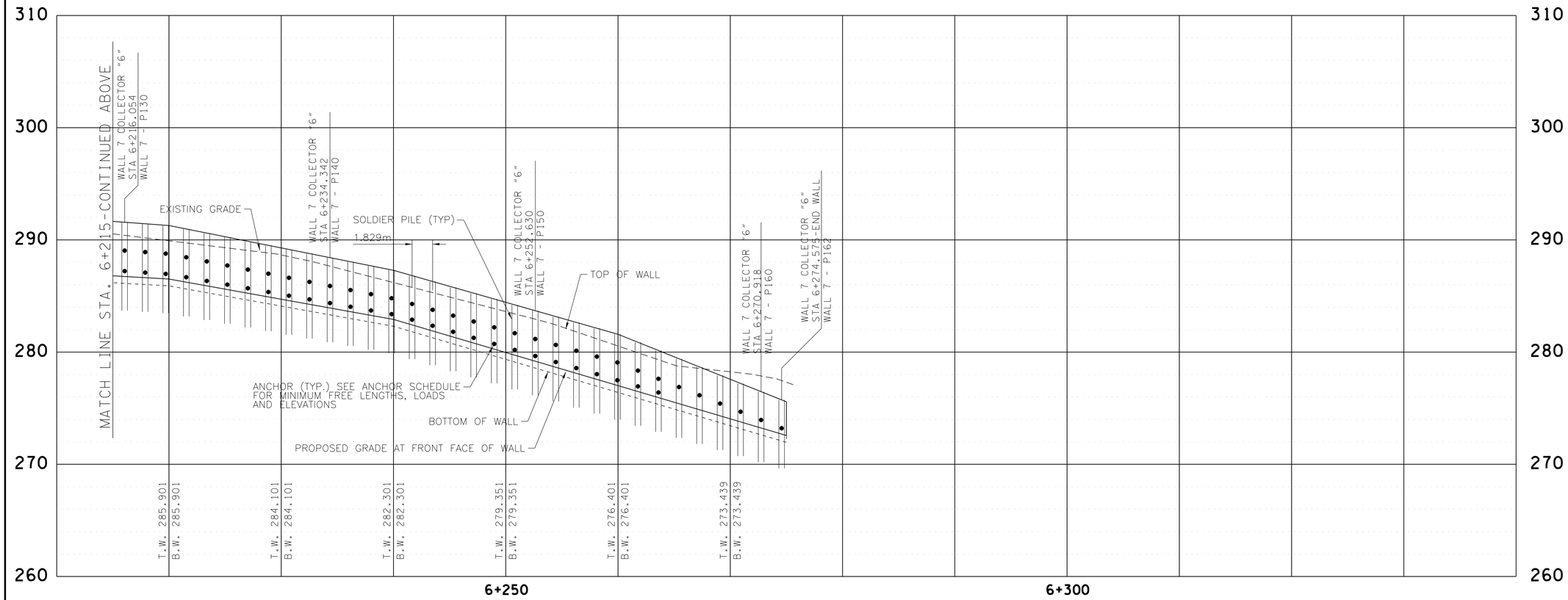
PROFILE RETAINING WALL NO. 7

STA.5+979 TO STA.6+215

SCALE: 1:200 HORIZ.
1:200 VERT.

9/10/2015
R:_Infrastructure Project Files\205 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\WLRETAINING WALL NO.7 PROFILESTA.5+979 TO STA 6+215.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P8
			160



LEGEND

TW EL 283.390 — TOP OF WALL ELEVATION (EXCLUDES BARRIER WALL)

BW EL 273.400 — BOTTOM OF WALL ELEVATION

PILE AND ANCHORS

LCW18-1 — LOAD CELL (1-TOP ANCHOR, 2-BOTTOM ANCHOR)

PRELIMINARY PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE RETAINING WALL NO. 7

STA.6+215 TO STA.6+275

SCALE: 1:200 HORIZ.
1:200 VERT.

9/10/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\12_RETAINING WALL NO.7 PROFILE STA.6+215 TO STA 6+275.sht

PILE SCHEDULE FOR: Wall 7

Pile #	Pile size (GR345)	Station	Offest (m)	Top Elevation (m)	Bottom of Wall Elevation (m)	Minimum Embedment Depth (m)	Tip Elevation (m)	Total Length (m)
P1	HP360x109	11+730.09	-80.65	290.13	286.45	4.57	281.88	8.25
P2	HP360x109	11+731.92	-80.67	290.47	286.66	4.57	282.09	8.39
P3	HP360x109	11+733.75	-80.67	290.82	286.86	4.57	282.29	8.52
P4	HP360x109	11+735.58	-80.66	291.16	287.07	4.57	282.50	8.66
P5	HP360x109	11+737.41	-80.63	291.50	287.27	4.57	282.70	8.80
P6	HP360x109	11+739.24	-80.59	291.84	287.48	4.57	282.91	8.94
P7	HP360x109	11+741.04	-80.53	292.18	287.68	4.57	283.11	9.07
P8	HP360x109	11+742.87	-80.48	292.52	287.89	4.57	283.31	9.21
P9	HP360x109	11+744.70	-80.43	292.87	288.09	4.57	283.52	9.35
P10	HP360x109	11+746.52	-80.37	293.21	288.30	4.57	283.72	9.48
P11	HP360x109	11+748.35	-80.32	293.55	288.50	4.57	283.93	9.62
P12	HP360x109	06+000.26	-20.57	293.87	288.71	4.57	284.13	9.74
P13	HP360x109	06+002.08	-20.57	294.07	288.92	4.57	284.35	9.72
P14	HP360x109	06+003.91	-20.57	294.27	289.13	4.57	284.56	9.71
P15	HP360x109	06+005.74	-20.57	294.46	289.34	4.57	284.77	9.69
P16	HP360x109	06+007.57	-20.57	294.66	289.56	4.57	284.98	9.68
P17	HP360x109	06+009.40	-20.57	294.86	289.77	4.57	285.20	9.66
P18	HP360x109	06+011.23	-20.57	295.06	289.98	4.57	285.41	9.65
P19	HP360x109	06+013.06	-20.57	295.25	290.19	4.57	285.62	9.63
P20	HP360x109	06+014.89	-20.57	295.45	290.41	4.57	285.83	9.62
P21	HP360x109	06+016.71	-20.57	295.65	290.62	4.57	286.05	9.60
P22	HP360x109	06+018.54	-20.57	295.85	290.83	4.57	286.26	9.59
P23	HP360x109	06+020.37	-20.57	296.03	291.03	4.57	286.45	9.58
P24	HP360x109	06+022.20	-20.57	296.18	291.14	4.57	286.57	9.61
P25	HP360x109	06+024.03	-20.57	296.33	291.26	4.57	286.69	9.64
P26	HP360x109	06+025.86	-20.57	296.48	291.38	4.57	286.81	9.67
P27	HP360x109	06+027.69	-20.57	296.63	291.50	4.57	286.93	9.70
P28	HP360x109	06+029.52	-20.57	296.78	291.62	4.57	287.05	9.73
P29	HP360x109	06+031.35	-20.57	296.93	291.74	4.57	287.17	9.76
P30	HP360x109	06+033.17	-20.57	297.08	291.86	4.57	287.29	9.80
P31	HP360x109	06+035.00	-20.57	297.23	291.98	4.57	287.40	9.83
P32	HP360x109	06+036.83	-20.57	297.38	292.10	4.57	287.52	9.86
P33	HP360x109	06+038.66	-20.57	297.53	292.21	4.57	287.64	9.89
P34	HP360x109	06+040.49	-20.57	297.71	292.36	4.57	287.78	9.92
P35	HP360x109	06+042.32	-20.57	297.95	292.56	4.57	287.98	9.97
P36	HP360x109	06+044.15	-20.57	298.20	292.76	4.57	288.19	10.02
P37	HP360x109	06+045.98	-20.57	298.45	292.96	4.57	288.39	10.06
P38	HP360x109	06+047.80	-20.57	298.70	293.16	4.57	288.59	10.11
P39	HP360x109	06+049.63	-20.57	298.95	293.36	4.57	288.79	10.16
P40	HP360x109	06+051.46	-20.57	299.20	293.56	4.57	288.99	10.21
P41	HP360x109	06+053.29	-20.57	299.44	293.76	4.57	289.19	10.25
P42	HP360x109	06+055.12	-20.57	299.69	293.96	4.57	289.39	10.30
P43	HP360x109	06+056.95	-20.57	299.94	294.17	4.57	289.59	10.35
P44	HP360x109	06+058.78	-20.57	300.19	294.37	4.57	289.79	10.40
P45	HP360x109	06+060.61	-20.57	300.36	294.48	4.57	289.91	10.45
P46	HP360x109	06+062.43	-20.57	300.38	294.42	4.57	289.85	10.53
P47	HP360x109	06+064.26	-20.57	300.40	294.36	4.57	289.79	10.61
P48	HP360x109	06+066.09	-20.57	300.42	294.30	4.57	289.73	10.69
P49	HP360x109	06+067.92	-20.57	300.43	294.24	4.57	289.67	10.77
P50	HP360x109	06+069.75	-20.57	300.45	294.18	4.57	289.60	10.85
P51	HP360x109	06+071.58	-20.57	300.47	294.12	4.57	289.54	10.93
P52	HP360x109	06+073.41	-20.57	300.49	294.05	4.57	289.48	11.00
P53	HP360x109	06+075.24	-20.57	300.51	293.99	4.57	289.42	11.08
P54	HP360x109	06+077.07	-20.57	300.52	293.93	4.57	289.36	11.16
P55	HP360x109	06+078.89	-20.57	300.54	293.87	4.57	289.30	11.24
P56	HP360x109	06+080.72	-20.57	300.52	293.81	4.57	289.24	11.28
P57	HP360x109	06+082.55	-20.57	300.42	293.75	4.57	289.18	11.24
P58	HP360x109	06+084.38	-20.57	300.33	293.69	4.57	289.12	11.21
P59	HP360x109	06+086.21	-20.57	300.23	293.63	4.57	289.06	11.18
P60	HP360x109	06+088.04	-20.57	300.14	293.57	4.57	288.99	11.15
P61	HP360x109	06+089.87	-20.57	300.05	293.51	4.57	288.93	11.11
P62	HP360x109	06+091.70	-20.57	299.95	293.44	4.57	288.87	11.08
P63	HP360x109	06+093.52	-20.57	299.86	293.38	4.57	288.81	11.05
P64	HP360x109	06+095.35	-20.57	299.77	293.32	4.57	288.75	11.02
P65	HP360x109	06+097.18	-20.57	299.67	293.26	4.57	288.69	10.98
P66	HP360x109	06+099.01	-20.57	299.58	293.20	4.57	288.63	10.95
P67	HP360x109	06+100.84	-20.57	299.50	293.14	4.57	288.57	10.93
P68	HP360x109	06+102.67	-20.57	299.44	293.08	4.57	288.51	10.93
P69	HP360x109	06+104.50	-20.57	299.37	293.02	4.57	288.45	10.93
P70	HP360x109	06+106.33	-20.57	299.31	292.96	4.57	288.39	10.92
P71	HP360x109	06+108.15	-20.57	299.25	292.90	4.57	288.32	10.92
P72	HP360x109	06+109.98	-20.57	299.18	292.84	4.57	288.26	10.92
P73	HP360x109	06+111.81	-20.57	299.12	292.77	4.57	288.20	10.92
P74	HP360x109	06+113.64	-20.57	299.06	292.71	4.57	288.14	10.92
P75	HP360x109	06+115.47	-20.57	298.99	292.65	2.13	290.52	8.47
P76	HP360x109	06+117.30	-20.57	298.93	292.59	2.13	290.46	8.47
P77	HP360x109	06+119.13	-20.57	298.87	292.53	4.57	287.96	10.91
P78	HP360x109	06+120.96	-20.57	298.75	292.43	4.57	287.86	10.89
P79	HP360x109	06+122.79	-20.57	298.59	292.30	4.57	287.73	10.86
P80	HP360x109	06+124.61	-20.57	298.42	292.17	4.57	287.60	10.82
P81	HP360x109	06+126.44	-20.57	298.26	292.04	4.57	287.47	10.79
P82	HP360x109	06+128.27	-20.57	298.09	291.91	4.57	287.34	10.76
P83	HP360x109	06+130.10	-20.57	297.93	291.78	4.57	287.21	10.72
P84	HP360x109	06+131.93	-20.57	297.77	291.65	4.57	287.07	10.69
P85	HP360x109	06+133.76	-20.57	297.60	291.52	4.57	286.94	10.66
P86	HP360x109	06+135.59	-20.57	297.44	291.38	4.57	286.81	10.62
P87	HP360x109	06+137.42	-20.57	297.27	291.25	4.57	286.68	10.59
P88	HP360x109	06+139.24	-20.57	297.11	291.12	4.57	286.55	10.56
P89	HP360x109	06+141.07	-20.57	296.96	290.99	4.57	286.42	10.54
P90	HP360x109	06+142.90	-20.57	296.82	290.86	4.57	286.29	10.53
P91	HP360x109	06+144.73	-20.57	296.67	290.73	4.57	286.16	10.51
P92	HP360x109	06+146.56	-20.57	296.53	290.60	4.57	286.03	10.50
P93	HP360x109	06+148.39	-20.57	296.39	290.47	4.57	285.90	10.49
P94	HP360x109	06+150.22	-20.57	296.25	290.34	4.57	285.76	10.48
P95	HP360x109	06+152.05	-20.57	296.10	290.20	4.57	285.63	10.47
P96	HP360x109	06+153.87	-20.57	295.96	290.07	4.57	285.50	10.46
P97	HP360x109	06+155.70	-20.57	295.82	289.94	4.57	285.37	10.45
P98	HP360x109	06+157.53	-20.57	295.68	289.81	4.57	285.24	10.44
P99	HP360x109	06+159.36	-20.57	295.54	289.68	4.57	285.11	10.43
P100	HP360x109	06+161.19	-20.57	295.38	289.55	4.57	284.98	10.40
P101	HP360x109	06+163.02	-20.57	295.22	289.42	4.57	284.85	10.37
P102	HP360x109	06+164.85	-20.57	295.06	289.29	4.57	284.72	10.34
P103	HP360x109	06+166.68	-20.57	294.90	289.16	2.13	287.03	7.87
P104	HP360x109	06+168.51	-20.57	294.74	289.03	2.13	286.90	7.84
P105	HP360x109	06+170.33	-20.57	294.58	288.89	2.13	286.76	7.81
P106	HP360x109	06+172.16	-20.57	294.42	288.76	2.13	286.63	7.78
P107	HP360x109	06+173.99	-20.57	294.25	288.63	2.13	286.50	7.75
P108	HP360x109	06+175.82	-20.57	294.09	288.50	2.13	286.37	7.72
P109	HP360x109	06+177.65	-20.57	293.93	288.37	2.13	286.24	7.69
P110	HP360x109	06+179.48	-20.57	293.77	288.24	2.13	286.11	7.66
P111	HP360x109	06+181.31	-20.57	293.66	288.13	2.13	286.00	7.67
P112	HP360x109	06+183.14	-20.57	293.57	288.02	2.13	285.89	7.68
P113	HP360x109	06+184.96	-20.57	293.49	287.92	2.13	285.79	7.70
P114	HP360x109	06+186.79	-20.57	293.40	287.81	2.13	285.68	7.72
P115	HP360x109	06+188.62	-20.57	293.31	287.71	2.13	285.58	7.73
P116	HP360x109	06+190.45	-20.57	293.22	287.60	2.13	285.47	7.75
P117	HP360x109	06+192.28	-20.57	293.13	287.50	2.13	285.37	7.77
P118	HP360x109	06+194.11	-20.57	293.04	287.39	2.13	285.26	7.78
P119	HP360x109	06+195.94	-20.57	292.96	287.29	2.13	285.16	7.80
P120	HP360x109	06+197.77	-20.57	292.87	287.18	2.13	285.05	7.82
P121	HP360x109	06+199.59	-20.57	292.78	287.07	2.13	284.94	7.83
P122	HP360x109	06+201.42	-20.57	292.65	286.97	2.13	284.84	7.81
P123	HP360x109	06+203.25	-20.57	292.52	286.86	4.57	282.29	10.23
P124	HP360x109	06+205.08	-20.57	292.38	286.76	4.57	282.19	10.20
P125	HP360x109	06+206.91	-20.57	292.25	286.65	4.57	282.08	10.17
P126	HP360x109	06+208.74	-20.57	292.11	286.55	2.13	284.42	7.69
P127	HP360x109	06+210.57	-20.57	291.98	286.44	2.13	284.31	7.66
P128	HP360x109	06+212.40	-20.57	291.84	286.34	2.13	284.21	7.63
P129	HP360x109	06+214.23	-20.57	291.71	286.23	2.13	284.10	7.60
P130	HP360x109	06+216.05	-20.57	291.57	286.13	2.13	284.00	7.57
P131	HP360x109	06+217.88	-20.57	291.44	286.02	2.13	283.89	7.54
P132	HP360x109	06+219.71	-20.57	291.30	285.92	2.13	283.79	7.51

PILE SCHEDULE FOR: Wall 7 (CONTINUED)

Pile #	Pile size (GR50)	Station	Offest (m)	Top Elevation (m)	Bottom of Wall Elevation (m)	Minimum Embedment Depth (m)	Tip Elevation (m)	Total Length (m)
P133	HP360x109	06+221.54	-20.57	290.97	285.62	2.13	283.49	7.48
P134	HP360x109	06+223.37	-20.57	290.61	285.30	2.13	283.17	7.44
P135	HP360x109	06+225.20	-20.57	290.24	284.97	2.13	282.84	7.41
P136	HP360x109	06+227.03	-20.57	289.88	284.64	2.13	282.51	7.37
P137	HP360x109	06+228.86	-20.57	289.51	284.31	2.13	282.18	7.34
P138	HP360x109	06+230.68	-20.57	289.15	283.98	2.13	281.85	7.30
P139	HP360x109	06+232.51	-20.57	288.78	283.65	2.13	281.52	7.26
P140	HP360x109	06+234.34	-20.57	288.42	283.32	2.13	281.19	7.23
P141	HP360x109	06+236.17	-20.57	288.05	282.99	2.13	280.86	7.19
P142	HP360x109	06+238.00	-20.57	287.69	282.66	2.13	280.53	7.16
P143	HP360x109	06+239.83	-20.57	287.32	282.33	2.13	280.20	7.12
P144	HP360x109	06+241.66	-20.57	286.82	281.81	4.57	277.24	9.58
P145	HP360x109	06+243.49	-20.57	286.29	281.27	4.57	276.70	9.59
P146	HP360x109	06+245.31	-20.57	285.77	280.73	2.13	278.60	7.17
P147	HP360x109	06+247.14	-20.57	285.25	280.19	2.13	278.06	7.19
P148	HP360x109	06+248.97	-20.57	284.73	279.65	2.13	277.52	7.21
P149	HP360x109	06+250.80	-20.57	284.21	279.12	2.13	276.99	7.22
P150	HP360x109	06+252.63	-20.57	283.69	278.58	2.13	276.45	7.24
P151	HP360x109	06+254.46	-20.57	283.17	278.04	2.13	275.91	7.26
P152	HP360x109	06+256.29	-20.57	282.65	277.50	2.13	275.37	7.28
P153	HP360x109	06+258.12	-20.57	282.12	276.96	2.13	274.83	7.30
P154	HP360x109	06+259.95	-20.57	281.60	276.42	2.13	274.29	7.32
P155	HP360x109	06+261.77	-20.57	280.88	275.88	2.13	273.75	7.13
P156	HP360x109	06+263.60	-20.57	280.14	275.33	2.13	273.20	6.94
P157	HP360x109	06+265.43	-20.57	279.41	274.79	2.13	272.66	6.75
P158	HP360x109	06+267.26	-20.57	278.67	274.25	2.13	272.12	6.55
P159	HP360x109	06+269.09	-20.57	277.94	273.71	2.13	271.58	6.36
P160	HP360x109	06+270.92	-20.57	277.21	273.17	2.13	271.04	6.17
P161	HP360x109	06+272.75	-20.57	276.47	272.63	2.13	270.50	5.98
P162	HP360x109	06+274.58	-20.57	275.74	272.08	2.13	269.95	5.78

ANCHOR SCHEDULE FOR: Wall 7
Row 1

Pile #	No. of Anchors (ea)	Elevation (m)	Angle of Inclination (deg)	No. of Strands per Anchor	Design Load (kN)	Test Load (kN)	Minimum Anchor Free Length (m)
P1	1	288.6	20.0	4	578.0	770.5	37.5
P2	1	288.9	20.0	4	578.0	770.5	37.5
P3	1	289.3	20.0	4	578.0	770.5	37.5
P4	1	289.6	20.0	4	578.0	770.5	37.5
P5	1	290.0	20.0	4	578.0	770.5	37.5
P6	1	290.3	20.0	4	578.0	770.5	37.5
P7	1	290.7	20.0	4	578.0	770.5	37.5
P8	1	291.0	20.0	4	578.0	770.5	37.5
P9	1	291.3	20.0	4	578.0	770.5	37.5
P10	1	291.7	20.0	4	578.0	770.5	30.0
P11	1	292.0	20.0	4	578.0	770.5	30.0
P12	1	292.3	20.0	4	578.0	770.5	30.0
P13	1	292.5	20.0	4	578.0	770.5	30.0
P14	1	292.7	20.0	4	578.0	770.5	30.0
P15	1	292.9	20.0	4	578.0	770.5	30.0
P16	1	293.1	20.0	4	578.0	770.5	30.0
P17	1	293.3	20.0	4	578.0	770.5	30.0
P18	1	293.5	20.0	4	578.0	770.5	27.0
P19	1	293.7	20.0	4	578.0	770.5	27.0
P20	1	293.9	20.0	4	578.0	770.5	27.0
P21	1	294.1	20.0	4	578.0	770.5	27.0
P22	1	294.3	20.0	4	578.0	770.5	27.0
P23	1	294.5	20.0	4	578.0	770.5	27.0
P24	1	294.7	20.0	4	578.0	770.5	27.0
P25	1	294.8	20.0	4	578.0	770.5	27.0
P26	1	295.0	20.0	4	578.0	770.5	27.0
P27	1	295.1	20.0	4	578.0	770.5	27.0
P28	1	295.3	20.0	4	578.0	770.5	27.0
P29	1	295.4	20.0	4	578.0	770.5	24.5
P30	1	295.6	20.0	4	578.0	770.5	24.5
P31	1	295.7	20.0	4	578.0	770.5	24.5
P32	1	295.9	20.0	4	578.0	770.5	24.5
P33	1	296.0	20.0	4	578.0	770.5	24.5
P34	1	296.2	20.0	4	578.0	770.5	24.5
P35	1	296.4	20.0	4	578.0	770.5	24.5
P36	1	296.7	20.0	4	578.0	770.5	24.5
P37	1	296.9	20.0	4	578.0	770.5	24.5
P38	1	297.2	20.0	4	578.0	770.5	20.0
P39	1	297.4	20.0	4	578.0	770.5	20.0
P40	1	297.7	20.0	4	578.0	770.5	20.0
P41	1	297.9	20.0	4	578.0	770.5	20.0
P42	1	298.2	20.0	4	578.0	770.5	20.0
P43 - P56	14	298.4	20.0	4	578.0	770.5	20.0
P57	1	298.3	20.0	4	578.0	770.5	20.0
P58	1	298.2	20.0	4	578.0	770.5	20.0
P59	1	298.1	20.0	4	578.0	770.5	20.0
P60	1	298.0	20.0	4	578.0	770.5	20.0
P61	1	297.9	20.0	4	578.0	770.5	20.0
P62	1	297.8	20.0	4	578.0	770.5	20.0
P63	1	297.7	20.0	4	578.0	770.5	20.0
P64	1	297.6	20.0	4	578.0	770.5	20.0
P65	1	297.5	20.0	4	578.0	770.5	20.0
P66 - P67	2	297.4	20.0	4	578.0	770.5	20.0
P68	1	297.3	20.0	4	578.0	770.5	20.0
P69 - P70	2	297.2	20.0	4	578.0	770.5	20.0
P71 - P72	2	297.1	20.0	4	578.0	770.5	20.0
P73	1	297.0	20.0	4	578.0	770.5	20.0
P74 - P75	2	296.9	20.0	4	578.0	770.5	20.0
P76	1	296.8	20.0	4	578.0	770.5	20.0
P77	1	296.7	20.0	4	578.0	770.5	20.0
P78	1	296.6	20.0	4	578.0	770.5	20.0
P79	1	296.5	20.0	4	578.0	770.5	20.0
P80	1	296.3	20.0	4	578.0	770.5	20.0
P81	1	296.1	20.0	4	578.0	770.5	20.0
P82	1	296.0	20.0	4	578.0	770.5	20.0
P83	1	295.8	20.0	4	578.0	770.5	20.0
P84	1	295.6	20.0	4	578.0	770.5	20.0
P85	1	295.5	20.0	4	578.0	770.5	20.0
P86	1	295.3	20.0	4	578.0	770.5	20.0
P87 - P90	4	295.2	20.0	4	578.0	770.5	20.0
P91	1	295.1	20.0	4	578.0	770.5	20.0
P92	1	295.0	20.0	4	578.0	770.5	20.0
P93	1	294.9	20.0	4	578.0	770.5	20.0
P94	1	294.7	20.0	4	578.0	770.5	20.0
P95	1	294.6	20.0	4	578.0	770.5	20.0
P96	1	294.4	20.0	4	578.0	770.5	20.0
P97	1	294.3	20.0	4	578.0	770.5	20.0
P98	1	294.2	20.0	4	578.0	770.5	20.0
P99	1	294.0	20.0	4	578.0	770.5	20.0
P100	1	293.9	20.0	4	578.0	770.5	20.0
P101	1	293.7	20.0	4	578.0	770.5	20.0
P102	1	293.5	20.0	4	578.0	770.5	20.0
P103	1	293.4	20.0	4	578.0	770.5	20.0
P104	1	293.2	20.0	4	578.0	770.5	20.0
P105	1	293.1	20.0	4	578.0	770.5	20.0
P106	1	292.9	20.0	4	578.0	770.5	20.0
P107	1	292.7	20.0	4	578.0	770.5	20.0
P108	1	292.6	20.0	4	578.0	770.5	20.0
P109	1	292.4	20.0	4	578.0	770.5	20.0
P110	1	292.2	20.0	4	578.0	770.5	20.0
P111	1	292.1	20.0	4	578.0	770.5	20.0
P112 - P113	2	292.0	20.0	4	578.0	770.5	20.0
P114	1	291.9	20.0	4	578.0	770.5	20.0
P115	1	291.8	20.0	4	578.0	770.5	20.0
P116	1	291.7	20.0	4	578.0	770.5	20.0
P117	1	291.6	20.0	4	578.0	770.5	20.0
P118	1	291.5	20.0	4	578.0	770.5	20.0
P119	1	291.4	20.0	4	578.0	770.5	20.0
P120 - P121	2	291.3	20.0	4	578.0	770.5	20.0
P122	1	291.1	20.0	4	578.0	770.5	20.0
P123	1	291.0	20.0	4	578.0	770.5	20.0
P124	1	290.9	20.0	4	578.0	770.5	20.0
P125	1	290.7	20.0	4	578.0	770.5	20.0
P126	1	290.6	20.0	4	578.0	770.5	20.0
P127	1	290.5	20.0	4	578.0	770.5	20.0
P128	1	290.3	20.0	4	578.0	770.5	20.0
P129	1	290.2	20.0	4	578.0	770.5	20.0
P130	1	290.0	20.0	4	578.0	770.5	20.0
P131	1	289.9	20.0	4	578.0	770.5	20.0
P132	1	289.8	20.0	4	578.0	770.5	20.0
P133	1	289.4	20.0	4	578.0	770.5	15.0
P134	1	289.1	20.0	4	578.0	770.5	15.0
P135	1	288.7	20.0	4	578.0	770.5	15.0
P136	1	288.4	20.0	4	578.0	770.5	15.0
P137	1	288.0	20.0	4	578.0	770.5	15.0
P138	1	287.6	20.0	4	578.0	770.5	15.0
P139	1	287.3	20.0	4	578.0	770.5	15.0
P140	1	286.9	20.0	4	578.0	770.5	15.0
P141	1	286.5	20.0	4	578.0	770.5	15.0
P142	1	286.2	20.0	4	578.0	770.5	15.0
P143	1	285.8	20.0	4	578.0	770.5	15.0
P144	1	285.3	20.0	4	578.0	770.5	15.0
P145	1	284.8	20.0	4	578.0	770.5	15.0
P146	1	284.2	20.0	4	578.0	770.5	15.0
P147	1	283.7	20.0	4	578.0	770.5	15.0
P148	1	283.2	20.0	4	578.0	770.5	15.0
P149	1	282.7	20.0	4	578.0	770.5	15.0
P150	1	282.2	20.0	4	578.0	770.5	15.0
P151	1	281.6	20.0	4	578.0	770.5	15.0
P152	1	281.1	20.0	4	578.0	770.5	15.0
P153	1	280.6	20.0	4	578.0	770.5	15.0
P154	1	280.1	20.0	4	578.0	770.5	15.0
P155	1	279.4	20.0	4	578.0	770.5	15.0
P156	1	278.6	20.0	4	578.0	770.5	15.0
P157	1	277.9	20.0	4	578.0	770.5	15.0
P158	1	277.1	20.0	4	578.0	770.5	15.0
P159	1	276.4	20.0	4	578.0	770.5	15.0
P160	1	275.7	20.0	4	578.0	770.5	15.0
P161	1	274.9	20.0	4	578.0	770.5	15.0
P162	1	274.2	20.0	4	578.0	770.5	15.0

ANCHOR SCHEDULE FOR: Wall 7 (CONTINUED)
Row 2

Pile #	No. of Anchors (ea)	Elevation (m)	Angle of Inclination (deg)	No. of Strands per Anchor	Design Load (kN)	Test Load (kN)	Minimum Anchor Free Length (m)
P10	1	290.4	20.0	4	578.0	770.5	27.5
P11	1	290.6	20.0	4	578.0	770.5	27.5
P12	1	290.8	20.0	4	578.0	770.5	27.5
P13	1	291.0	20.0	4	578.0	770.5	27.5
P14	1	291.2	20.0	4	578.0	770.5	27.5
P15	1	291.4	20.0	4	578.0	770.5	27.5
P16	1	291.6	20.0	4	578.0	770.5	27.5
P17	1	291.8	20.0	4	578.0	770.5	27.5
P18	1	292.1	20.0	4	578.0	770.5	25.5
P19	1	292.3	20.0	4	578.0	770.5	25.5
P20	1	292.5	20.0	4	578.0	770.5	25.5
P21	1	292.7	20.0	4	578.0	770.5	25.5
P22	1	292.9	20.0	4	578.0	770.5	25.5
P23	1	293.1	20.0	4	578.0	770.5	25.5
P24	1	293.2	20.0	4	578.0	770.5	25.5
P25	1	293.3	20.0	4	578.0	770.5	25.5
P26	1	293.4	20.0	4	578.0	770.5	25.5
P27	1	293.6	20.0	4	578.0	770.5	25.5
P28	1	293.7	20.0	4	578.0	770.5	25.5
P29	1	293.8	20.0	4	578.0	770.5	24.0
P30	1	293.9	20.0	4	578.0	770.5	24.0
P31	1	294.0	20.0	4	578.0	770.5	24.0
P32	1	294.1	20.0	4	578.0	770.5	24.0
P33	1	294.3	20.0	4	578.0	770.5	24.0
P34	1	294.4	20.0	4	578.0	770.5	24.0
P35	1	294.6	20.0	4	578.0	770.5	24.0
P36	1	294.8	20.0	4	578.0	770.5	24.0
P37	1	295.1	20.0	4	578.0	770.5	24.0
P38	1	295.3	20.0	4	578.0	770.5	20.0
P39	1	295.6	20.0	4	578.0	770.5	20.0
P40	1	295.8	20.0	4	578.0	770.5	20.0
P41	1	296.1	20.0	4	578.0	770.5	20.0
P42	1	296.3	20.0	4	578.0	770.5	20.0
P43 - P56	14	296.6	20.0	4	578.0	770.5	20.0
P57	1	296.5	20.0	4	578.0	770.5	20.0
P58	1	296.4	20.0	4	578.0	770.5	20.0
P59	1	296.3	20.0	4	578.0	770.5	20.0
P60	1	296.2	20.0	4	578.0	770.5	20.0
P61	1	296.1	20.0	4	578.0	770.5	20.0
P62	1	296.0	20.0	4	578.0	770.5	20.0
P63	1	295.9	20.0	4	578.0	770.5	20.0
P64	1	295.8	20.0	4	578.0	770.5	20.0
P65	1	295.7	20.0	4	578.0	770.5	20.0
P66 - P67	2	295.6	20.0	4	578.0	770.5	20.0
P68	1	295.5	20.0	4	578.0	770.5	20.0
P69 - P70	2	295.4	20.0	4	578.0	770.5	20.0
P71 - P72	2	295.3	20.0	4	578.0	770.5	20.0
P73	1	295.2	20.0	4	578.0	770.5	20.0
P74 - P75	2	295.1	20.0	4	578.0	770.5	20.0
P76	1	295.0	20.0	4	578.0	770.5	20.0
P77	1	294.9	20.0	4	578.0	770.5	20.0
P78	1	294.8	20.0	4	578.0	770.5	20.0
P79	1	294.6	20.0	4	578.0	770.5	20.0
P80	1	294.5	20.0	4	578.0	770.5	20.0
P81	1	294.3	20.0	4	578.0	770.5	20.0
P82	1	294.1	20.0	4	578.0	770.5	20.0
P83	1	294.0	20.0	4	578.0	770.5	20.0
P84	1	293.8	20.0	4	578.0	770.5	20.0
P85	1	293.6	20.0	4	578.0	770.5	20.0
P86	1	293.5	20.0	4	578.0	770.5	20.0
P87 - P90	4	293.4	20.0	4	578.0	770.5	20.0
P91	1	293.3	20.0	4	578.0	770.5	20.0
P92	1	293.2	20.0	4	578.0	770.5	20.0
P93	1	293.0	20.0	4	578.0	770.5	20.0
P94	1	292.9	20.0	4	578.0	770.5	20.0
P95	1	292.8	20.0	4	578.0	770.5	20.0
P96	1	292.6	20.0	4	578.0	770.5	20.0
P97	1	292.5	20.0	4	578.0	770.5	20.0
P98	1	292.3	20.0	4	578.0	770.5	20.0
P99	1	292.2	20.0	4	578.0	770.5	20.0
P100	1	292.0	20.0	4	578.0	770.5	20.0
P101	1	291.9	20.0	4	578.0	770.5	20.0
P102	1	291.7	20.0	4	578.0	770.5	20.0
P103	1	291.5	20.0	4	578.0	770.5	20.0
P104	1	291.4	20.0	4	578.0	770.5	20.0
P105	1	291.2	20.0	4	578.0	770.5	20.0
P106	1	291.1	20.0	4	578.0	770.5	20.0
P107	1	290.9	20.0	4	578.0	770.5	20.0
P108	1	290.7	20.0	4	578.0	770.5	20.0
P109	1	290.6	20.0	4	578.0	770.5	20.0
P110	1	290.4	20.0	4	578.0	770.5	20.0
P111	1	290.3	20.0	4	578.0	770.5	20.0
P112 - P113	2	290.2	20.0	4	578.0	770.5	20.0
P114	1	290.0	20.0	4	578.0	770.5	20.0
P115	1	290.0	20.0	4	578.0	770.5	20.0
P116	1	289.9	20.0	4	578.0	770.5	20.0
P117	1	289.8	20.0	4	578.0	770.5	20.0
P118	1	289.7	20.0	4	578.0	770.5	20.0
P119	1	289.6	20.0	4	578.0	770.5	20.0
P120 - P121	2	289.5	20.0	4	578.0	770.5	20.0
P122	1	289.3	20.0	4	578.0	770.5	20.0
P123	1	289.2	20.0	4	578.0	770.5	20.0
P124	1	289.0	20.0	4	578.0	770.5	20.0
P125	1	288.9	20.0	4	578.0	770.5	20.0
P126	1	288.8	20.0	4	578.0	770.5	20.0
P127	1	288.6	20.0	4	578.0	770.5	20.0
P128	1	288.5	20.0	4	578.0	770.5	20.0
P129	1	288.4	20.0	4	578.0	770.5	20.0
P130	1	288.2	20.0	4	578.0	770.5	20.0
P131	1	288.1	20.0	4	578.0	770.5	20.0
P132	1	288.0	20.0	4	578.0	770.5	20.0
P133	1	287.7	20.0	4	578.0	770.5	15.0
P134	1	287.3	20.0	4	578.0	770.5	15.0
P135	1	287.0	20.0	4	578.0	770.5	15.0
P136	1	286.7	20.0	4	578.0	770.5	15.0
P137	1	286.4	20.0	4	578.0	770.5	15.0
P138	1	286.0	20.0	4	578.0	770.5	15.0
P139	1	285.7	20.0	4	578.0	770.5	15.0
P140	1	285.4	20.0	4	578.0	770.5	15.0
P141	1	285.0	20.0	4	578.0	770.5	15.0
P142	1	284.7	20.0	4	578.0	770.5	15.0
P143	1	284.4	20.0	4	578.0	770.5	15.0
P144	1	283.9	20.0	4	578.0	770.5	15.0
P145	1	283.3	20.0	4	578.0	770.5	15.0
P146	1	282.8	20.0	4	578.0	770.5	15.0
P147	1	282.3	20.0	4	578.0	770.5	15.0
P148	1	281.7	20.0	4	578.0	770.5	15.0
P149	1	281.2	20.0	4	578.0	770.5	15.0
P150	1	280.7	20.0	4	578.0	770.5	15.0
P151	1	280.1	20.0	4	578.0	770.5	15.0
P152	1	279.6	20.0	4	578.0	770.5	15.0
P153	1	279.0	20.0	4	578.0	770.5	15.0
P154	1	278.5	20.0	4	578.0	770.5	15.0
P155	1	277.9	20.0	4	578.0	770.5	15.0
P156	1	277.4	20.0	4	578.0	770.5	15.0

NOTES:

1. ANCHOR FREE LENGTH IS THE MINIMUM ACCEPTABLE LENGTH.
2. CONTRACTOR SHALL DETERMINE ANCHOR BOND LENGTH REQUIRED TO MEET LOADS LISTED IN ANCHOR SCHEDULE.
3. ALL EXPOSED WALL SURFACES SHALL RECEIVE A CUSTOM FORM LINER FINISH. SEE NOTES AND FORM LINER PATTERNS ON SHEET "RETAINING WALLS ON PROJECT STATE ROUTE 115" FOR INFORMATION REGARDING WALL FINISH.
4. SEE SHEET "RETAINING WALL NO. 7 AND NO. 8 DETAILS" AND SHEET "RETAINING WALL NO. 7 AND NO. 8 ANCHOR WALL NOTES" FOR FURTHER DETAILS PERTAINING TO WALL FACING, ANCHOR INSTALLATION, TESTING, PAYMENT, MATERIAL REQUIREMENTS, AND OTHER REQUIREMENTS FOR ANCHOR WALL CONSTRUCTION AND ACCEPTANCE.

SEALED BY

PRELIMINARY

PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

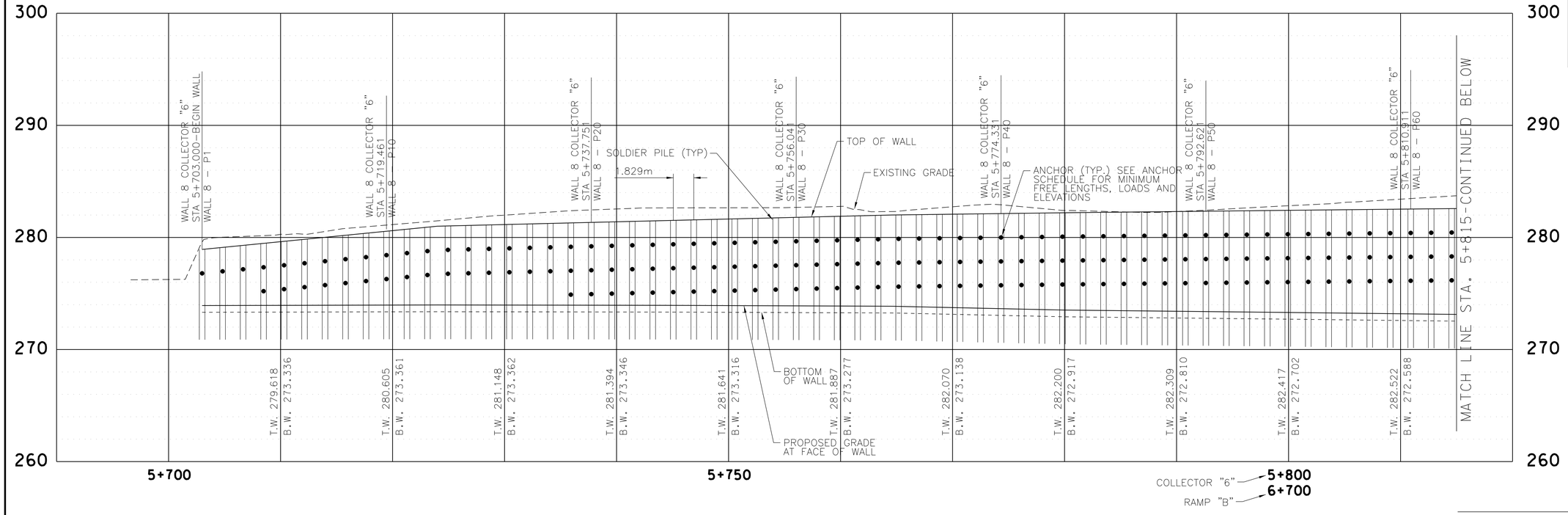
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PILE AND ANCHOR SCHEDULES RETAINING WALL NO. 7

SCALE: AS NOTED

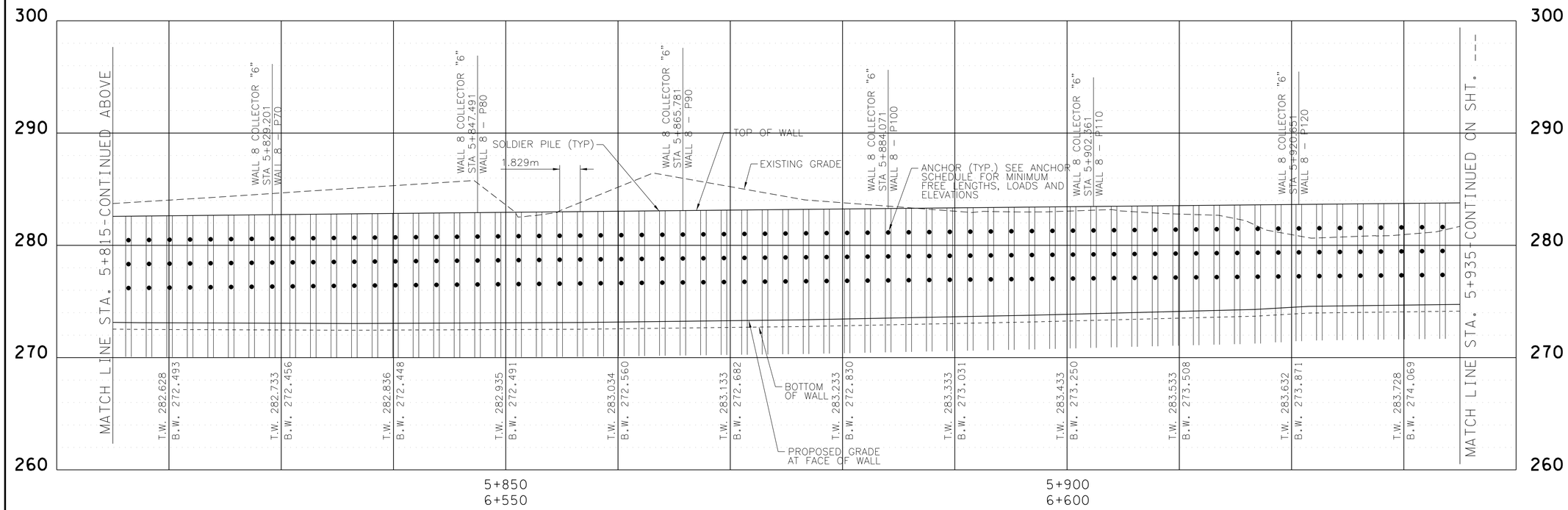
9/10/2015
R:_ Infrastructure Project Files\2015 Infra Projects\7681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\15_RETAINING WALL 7 PILE AND ANCHOR SCHEDULE.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P8
			162



LEGEND

TW EL 283.390 — TOP OF WALL ELEVATION (EXCLUDES BARRIER WALL)
BW EL 273.400 — BOTTOM OF WALL ELEVATION
PILE AND ANCHORS
LCW8-1 — LOAD CELL (1-TOP ANCHOR, 2-BOTTOM ANCHOR)



PRELIMINARY PLANS

METRIC

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

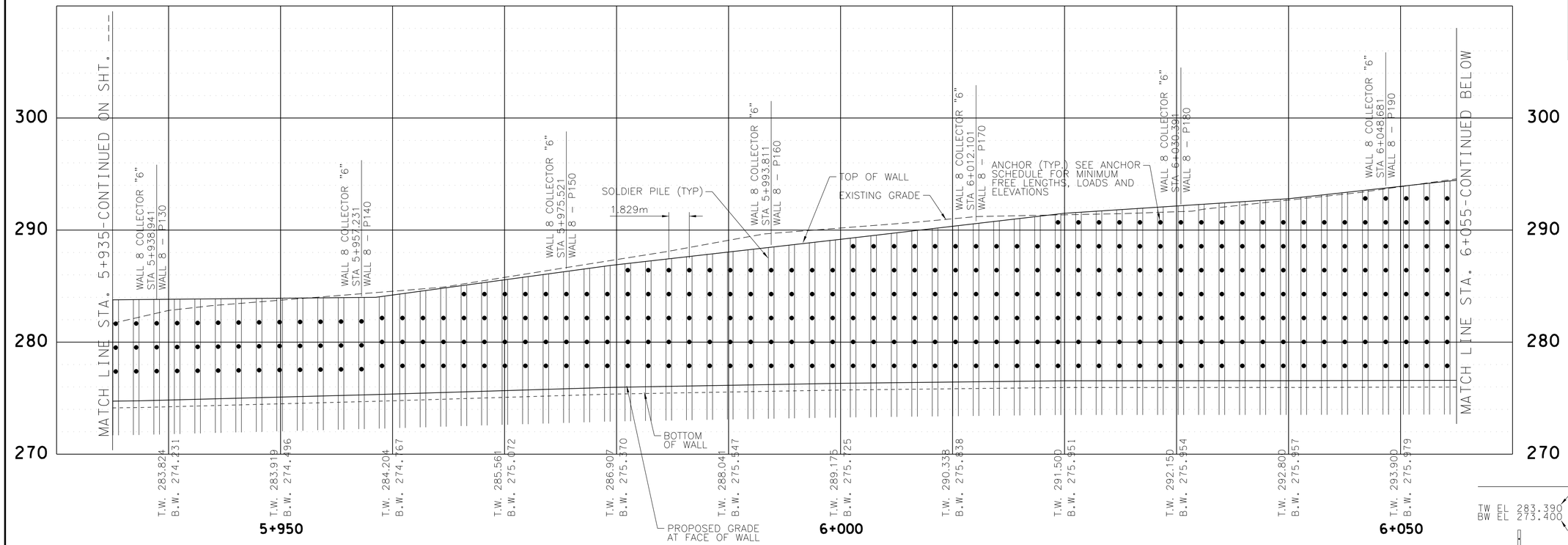
PROFILE RETAINING WALL NO. 8

STA.5+703 TO STA.5+935

SCALE: 1:200 HORIZ.
1:200 VERT.

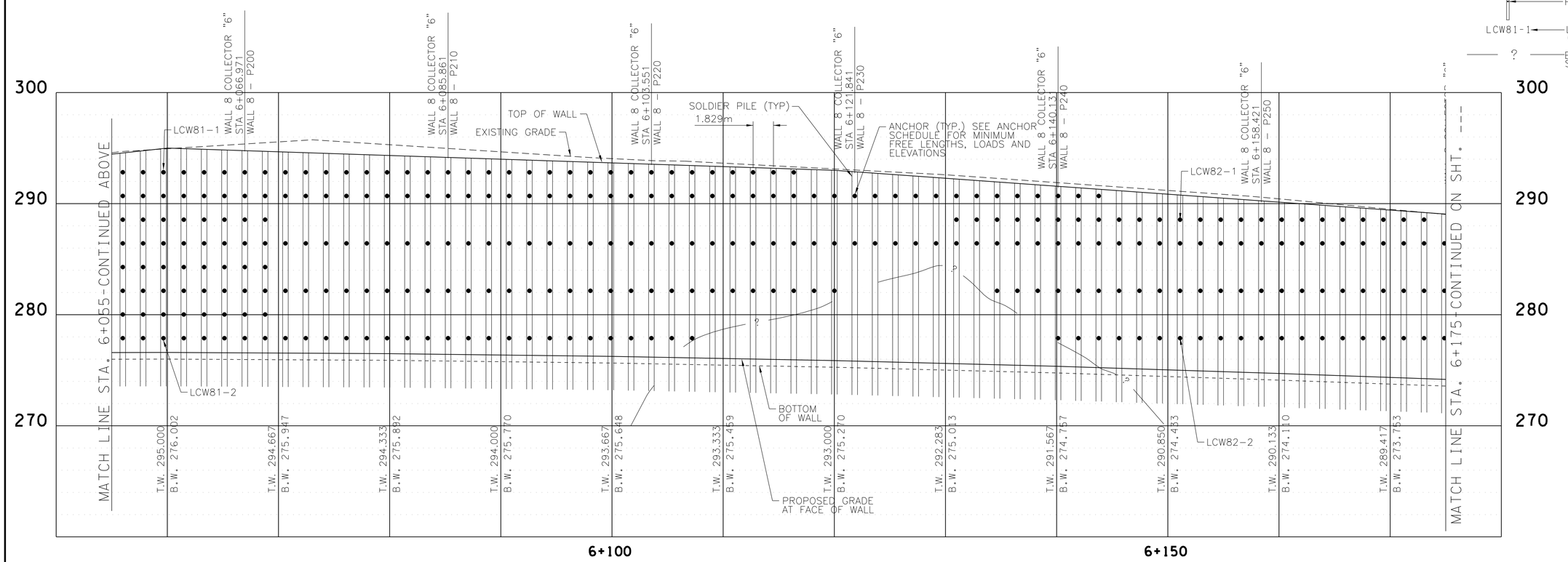
9/10/2015
R:_Infrastructure Project Files\205 Infra Projects\768-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\08.RETAINING WALL NO.8 PROFILE STA.5+703 TO STA 5+935.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P8
			163



LEGEND

TW EL 283.390 — TOP OF WALL ELEVATION (EXCLUDES BARRIER WALL)
BW EL 273.400 — BOTTOM OF WALL ELEVATION
PILE AND ANCHORS
LCW81-1 — LOAD CELL (1-TOP ANCHOR, 2-BOTTOM ANCHOR)
? — ESTIMATED TOP OF SOLID ROCK



PRELIMINARY PLANS

METRIC

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

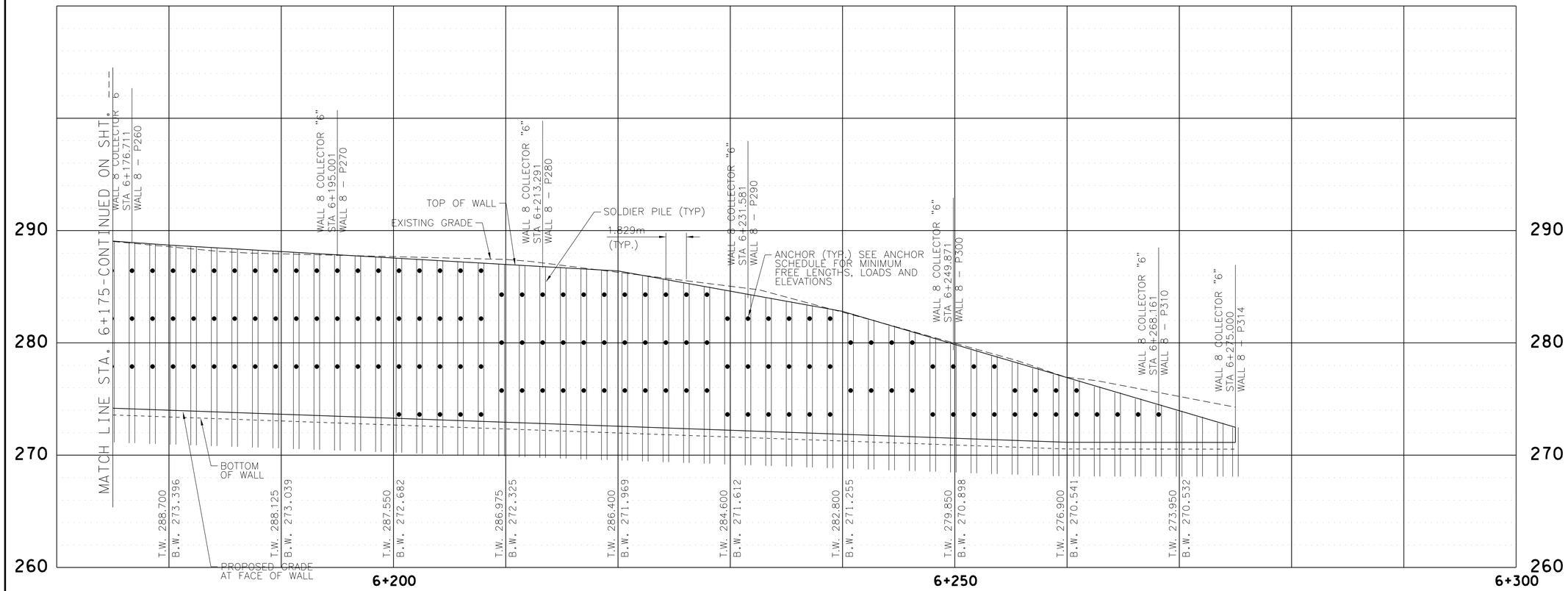
PROFILE RETAINING WALL NO. 8

STA.5+935 TO STA.6+175

SCALE: 1:200 HORIZ.
1:200 VERT.

9/10/2015
R:_Infrastructure Project Files\205 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\09_RETAINING WALL NO.8 PROFILE STA.5+935 TO STA 6+175.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P8
			164



LEGEND

TW EL 283.390 — TOP OF WALL ELEVATION (EXCLUDES BARRIER WALL)

BW EL 273.400 — BOTTOM OF WALL ELEVATION

PILE AND ANCHORS

LCW8-1 — LOAD CELL (1-TOP ANCHOR, 2-BOTTOM ANCHOR)

PRELIMINARY PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE RETAINING WALL NO. 8

STA.6+175 TO STA.6+275

SCALE: 1:200 HORIZ.
1:200 VERT.

9/10/2015
R:_Infrastructure Project Files\2015 Infra Projects\7681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\10_RETAINING WALL NO.8 PROFILE STA.6+175 TO STA 6+275.sht

9/10/2015
R:_ Infrastructure Project Files\2015 Infra Projects\7681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\13_RETAINING WALL 8 PILE AND ANCHOR SCHEDULE.sht

PILE SCHEDULE FOR: Wall 8

Pile #	Pile size (GR345)	Station	Offest (m)	Top Elevation (m)	Bottom of Wall Elevation (m)	Minimum Embedment Depth (m)	Tip Elevation (m)	Total Length (m)
P1	HP360x109	11+459.27	-34.35	278.93	273.31	3.05	270.26	8.67
P2	HP360x109	11+461.08	-34.35	279.11	273.31	3.05	270.27	8.84
P3	HP360x109	11+462.88	-34.35	279.29	273.32	3.05	270.27	9.02
P4	HP360x109	11+464.68	-34.35	279.47	273.32	4.57	268.75	10.72
P5	HP360x109	11+466.49	-34.35	279.65	273.33	4.57	268.76	10.89
P6	HP360x109	11+468.29	-34.35	279.83	273.33	4.57	268.76	11.07
P7	HP360x109	11+470.09	-34.35	280.01	273.34	4.57	268.76	11.25
P8	HP360x109	11+471.89	-34.35	280.19	273.34	4.57	268.77	11.42
P9	HP360x109	11+473.70	-34.35	280.37	273.35	4.57	268.77	11.60
P10	HP360x109	11+475.50	-34.35	280.55	273.35	4.57	268.78	11.77
P11	HP360x109	11+477.30	-34.35	280.73	273.35	4.57	268.78	11.95
P12	HP360x109	11+479.11	-34.35	280.91	273.36	4.57	268.79	12.13
P13	HP360x109	11+480.91	-34.35	281.02	273.36	4.57	268.79	12.24
P14	HP360x109	11+482.71	-34.35	281.07	273.36	4.57	268.79	12.28
P15	HP360x109	11+484.51	-34.35	281.11	273.35	4.57	268.78	12.33
P16	HP360x109	11+486.32	-34.35	281.16	273.35	4.57	268.78	12.38
P17	HP360x109	11+488.12	-34.35	281.20	273.35	4.57	268.78	12.43
P18	HP360x109	11+489.92	-34.35	281.25	273.35	4.57	268.77	12.48
P19	HP360x132	11+491.73	-34.35	281.29	273.34	7.62	265.72	15.57
P20	HP360x132	11+493.53	-34.35	281.34	273.34	7.62	265.72	15.62
P21	HP360x132	11+495.33	-34.35	281.38	273.34	7.62	265.72	15.67
P22	HP360x132	11+497.13	-34.35	281.43	273.33	7.62	265.71	15.72
P23	HP360x132	11+498.94	-34.35	281.47	273.33	7.62	265.71	15.76
P24	HP360x132	11+500.74	-34.35	281.52	273.33	7.62	265.71	15.81
P25	HP360x132	11+502.54	-34.35	281.56	273.32	7.62	265.70	15.87
P26	HP360x132	11+504.35	-34.35	281.61	273.31	7.62	265.69	15.92
P27	HP360x132	11+506.15	-34.35	281.65	273.30	7.62	265.68	15.97
P28	HP360x132	11+507.95	-34.35	281.70	273.30	7.62	265.68	16.02
P29	HP360x132	11+509.75	-34.35	281.74	273.29	7.62	265.67	16.07
P30	HP360x132	11+511.56	-34.35	281.79	273.28	7.62	265.66	16.13
P31	HP360x132	11+513.36	-34.35	281.83	273.28	7.62	265.66	16.18
P32	HP360x132	11+515.16	-34.35	281.88	273.27	7.62	265.65	16.23
P33	HP360x132	11+516.97	-34.35	281.92	273.26	7.62	265.64	16.28
P34	HP360x132	11+518.77	-34.35	281.97	273.25	7.62	265.63	16.34
P35	HP360x132	11+520.57	-34.35	282.01	273.24	7.62	265.62	16.39
P36	HP360x132	11+522.38	-34.35	282.03	273.19	7.62	265.57	16.46
P37	HP360x132	11+524.18	-34.35	282.06	273.15	7.62	265.53	16.52
P38	HP360x132	11+525.98	-34.35	282.08	273.11	7.62	265.49	16.59
P39	HP360x132	11+527.78	-34.35	282.10	273.07	7.62	265.45	16.65
P40	HP360x132	11+529.59	-34.35	282.13	273.03	7.62	265.41	16.71
P41	HP360x132	11+531.39	-34.35	282.15	272.99	7.62	265.37	16.78
P42	HP360x132	11+533.19	-34.35	282.17	272.95	7.62	265.33	16.84
P43	HP360x132	11+535.00	-34.36	282.20	272.91	7.62	265.29	16.91
P44	HP360x132	11+536.80	-34.39	282.22	272.89	7.62	265.27	16.95
P45	HP360x132	11+538.60	-34.43	282.24	272.87	7.62	265.25	16.99
P46	HP360x132	11+540.40	-34.50	282.26	272.85	7.62	265.23	17.03
P47	HP360x132	11+542.20	-34.58	282.28	272.83	7.62	265.21	17.07
P48	HP360x132	11+544.00	-34.68	282.30	272.81	7.62	265.19	17.11
P49	HP360x132	11+545.80	-34.80	282.32	272.79	7.62	265.17	17.15
P50	HP360x132	11+547.60	-34.93	282.34	272.77	7.62	265.15	17.18
P51	HP360x132	11+549.39	-35.09	282.36	272.75	7.62	265.13	17.22
P52	HP360x132	11+551.19	-35.26	282.38	272.73	7.62	265.11	17.26
P53	HP360x132	11+552.98	-35.45	282.40	272.71	7.62	265.09	17.30
P54	HP360x132	11+554.77	-35.65	282.42	272.69	7.62	265.07	17.34
P55	HP360x132	11+556.56	-35.88	282.44	272.67	7.62	265.05	17.38
P56	HP360x132	11+558.35	-36.12	282.45	272.65	7.62	265.03	17.42
P57	HP360x132	11+560.13	-36.38	282.47	272.63	7.62	265.01	17.46
P58	HP360x132	11+561.91	-36.65	282.49	272.61	7.62	264.99	17.50
P59	HP360x132	11+563.69	-36.95	282.51	272.59	7.62	264.97	17.54
P60	HP360x132	11+565.46	-37.26	282.53	272.57	7.62	264.95	17.58
P61	HP360x132	11+567.23	-37.59	282.55	272.55	7.62	264.93	17.62
P62	HP360x132	11+569.00	-37.93	282.57	272.53	7.62	264.91	17.66
P63	HP360x132	11+570.77	-38.30	282.59	272.50	7.62	264.88	17.71
P64	HP360x132	11+572.53	-38.68	282.61	272.49	7.62	264.87	17.74
P65	HP360x132	11+574.28	-39.07	282.63	272.48	7.62	264.86	17.76
P66	HP360x132	11+576.04	-39.49	282.65	272.48	7.62	264.86	17.79
P67	HP360x132	11+577.78	-39.92	282.67	272.47	7.62	264.85	17.82
P68	HP360x132	11+579.54	-40.37	282.69	272.46	7.62	264.84	17.84
P69	HP360x132	11+581.31	-40.84	282.71	272.46	7.62	264.84	17.87
P70	HP360x132	11+583.07	-41.32	282.72	272.45	7.62	264.83	17.90
P71	HP360x132	11+584.83	-41.81	282.74	272.44	7.62	264.82	17.92
P72	HP360x132	11+586.59	-42.30	282.76	272.44	7.62	264.82	17.95
P73	HP360x132	11+588.35	-42.80	282.78	272.43	7.62	264.81	17.97
P74	HP360x132	11+590.11	-43.29	282.80	272.42	7.62	264.80	18.00
P75	HP360x132	11+591.87	-43.79	282.82	272.43	7.62	264.81	18.01
P76	HP360x132	11+593.63	-44.28	282.84	272.44	7.62	264.82	18.02
P77	HP360x132	11+595.39	-44.78	282.86	272.45	7.62	264.83	18.03
P78	HP360x132	11+597.15	-45.27	282.87	272.45	7.62	264.83	18.04
P79	HP360x132	11+598.91	-45.76	282.89	272.46	7.62	264.84	18.05
P80	HP360x132	11+600.67	-46.26	282.91	272.47	7.62	264.85	18.06
P81	HP360x132	11+602.43	-46.75	282.93	272.48	7.62	264.86	18.07
P82	HP360x132	11+604.19	-47.25	282.95	272.49	7.62	264.87	18.08
P83	HP360x132	11+605.95	-47.74	282.96	272.49	7.62	264.87	18.09
P84	HP360x132	11+607.71	-48.23	282.98	272.50	7.62	264.88	18.10
P85	HP360x132	11+609.47	-48.73	283.00	272.51	7.62	264.89	18.11
P86	HP360x132	11+611.23	-49.22	283.02	272.53	7.62	264.91	18.11
P87	HP360x132	11+612.99	-49.72	283.04	272.55	7.62	264.93	18.10
P88	HP360x132	11+614.75	-50.21	283.05	272.58	7.62	264.96	18.10
P89	HP360x132	11+616.51	-50.70	283.07	272.60	7.62	264.98	18.09
P90	HP360x132	11+618.27	-51.20	283.09	272.62	7.62	265.00	18.09
P91	HP360x132	11+620.03	-51.69	283.11	272.64	7.62	265.02	18.09
P92	HP360x132	11+621.79	-52.19	283.13	272.67	7.62	265.05	18.08
P93	HP360x132	11+623.54	-52.68	283.15	272.69	7.62	265.07	18.08
P94	HP360x132	11+625.30	-53.18	283.16	272.71	7.62	265.09	18.07
P95	HP360x132	11+627.06	-53.67	283.18	272.73	7.62	265.11	18.07
P96	HP360x132	11+628.82	-54.16	283.20	272.76	7.62	265.14	18.07
P97	HP360x132	11+630.58	-54.66	283.22	272.79	7.62	265.17	18.05
P98	HP360x132	11+632.34	-55.15	283.24	272.83	7.62	265.21	18.03
P99	HP360x132	11+634.10	-55.65	283.26	272.87	7.62	265.25	18.01
P100	HP360x132	11+635.86	-56.14	283.27	272.90	7.62	265.28	17.99
P101	HP360x132	11+637.62	-56.63	283.29	272.94	7.62	265.32	17.97
P102	HP360x132	11+639.38	-57.13	283.31	272.98	7.62	265.36	17.95
P103	HP360x132	11+641.14	-57.62	283.33	273.01	7.62	265.39	17.94
P104	HP360x132	11+642.90	-58.12	283.35	273.05	7.62	265.43	17.92
P105	HP360x132	11+644.66	-58.61	283.36	273.09	7.62	265.47	17.90
P106	HP360x132	11+646.42	-59.11	283.38	273.12	7.62	265.50	17.88
P107	HP360x132	11+648.18	-59.60	283.40	273.16	7.62	265.54	17.86
P108	HP360x132	11+649.94	-60.09	283.42	273.21	7.62	265.59	17.83
P109	HP360x132	11+651.70	-60.59	283.44	273.25	7.62	265.63	17.80
P110	HP360x132	11+653.46	-61.08	283.46	273.30	7.62	265.68	17.77
P111	HP360x132	11+655.22	-61.58	283.47	273.35	7.62	265.73	17.75
P112	HP360x132	11+656.98	-62.07	283.49	273.40	7.62	265.78	17.72
P113	HP360x132	11+658.74	-62.56	283.51	273.44	7.62	265.82	17.69
P114	HP360x132	11+660.50	-63.06	283.53	273.49	7.62	265.87	17.66
P115	HP360x132	11+662.26	-63.55	283.55	273.54	7.62	265.92	17.63
P116	HP360x132	11+664.01	-64.05	283.57	273.58	7.62	265.96	17.60
P117	HP360x132	11+665.77	-64.54	283.58	273.63	7.62	266.01	17.57
P118	HP360x132	11+667.53	-65.04	283.60	273.69	7.62	266.07	17.54
P119	HP360x132	11+669.29	-65.53	283.62	273.79	7.62	266.17	17.45
P120	HP360x132	11+671.05	-66.02	283.64	273.90	7.62	266.28	17.36
P121	HP360x132	11+672.81	-66.52	283.66	273.96	7.62	266.34	17.31
P122	HP360x132	11+674.58	-66.99	283.67	273.99	7.62	266.37	17.31
P123	HP360x132	11+676.34	-67.46	283.69	274.01	7.62	266.39	17.30
P124	HP360x132	11+678.12	-67.91	283.71	274.03	7.62	266.41	17.30
P125	HP360x132	11+679.89	-68.35	283.73	274.06	7.62	266.44	17.29
P126	HP360x132	11+681.67	-68.77	283.74	274.08	7.62	266.46	17.28
P127	HP360x132	11+683.45	-69.18	283.76	274.10	7.62	266.48	17.28
P128	HP360x132	11+685.24	-69.57	283.78	274.13	7.62	266.51	17.27
P129	HP360x132	11+687.02	-69.95	283.80	274.15	7.62	266.53	17.27
P130	HP360x132	11+688.81	-70.31	283.81	274.19	7.62	266.57	17.24
P131	HP360x132	11+690.61	-70.66	283.83	274.24	7.62	266.62	17.21
P132	HP360x132	11+692.40	-71.00	283.85	274.29	7.62	266.67	17.18

PILE SCHEDULE FOR: Wall 8 (CONTINUED)

Pile #	Pile size (GR345)	Station	Offest (m)	Top Elevation (m)	Bottom of Wall Elevation (m)	Minimum Embedment Depth (m)	Tip Elevation (m)	Total Length (m)
P133	HP360x132	11+694.20	-71.32	283.87	274.34	7.62	266.72	17.15
P134	HP360x132	11+696.01	-71.62	283.88	274.39	7.62	266.77	17.12
P135	HP360x132	11+697.81	-71.91	283.90	274.44	7.62	266.82	17.09
P136	HP360x132	11+699.62	-72.19	283.92	274.48	7.62	266.86	17.05
P137	HP360x132	11+701.43	-72.45	283.94	274.53	7.62	266.91	17.02
P138	HP360x132	11+703.24	-72.70	283.95	274.58	7.62	266.96	16.99
P139	HP360x132	11+705.05	-72.94	283.97	274.63	7.62	267.01	16.96
P140	HP360x132	11+706.86	-73.15	283.99	274.68	7.62	267.06	16.93
P141	HP360x132	11+708.68	-73.36	284.08	274.73	7.62	267.11	16.97
P142	HP360x132	11+710.50	-73.55	284.32	274.78	7.62	267.16	17.16
P143	HP360x132	11+712.32	-73.72	284.57	274.84	7.62	267.22	17.35
P144	HP360x132	11+714.14	-73.88	284.82	274.90	7.62	267.28	17.55
P145	HP360x132	11+715.96	-74.03	285.07	274.95	12.19	262.76	22.31
P146	HP360x132	11+717.78	-74.16	285.32	275.01	12.19	262.82	22.50
P147	HP360x132	11+719.61	-74.27	285.57	275.06	12.19	262.87	22.69
P148	HP360x132	11+721.43	-74.37	285.81	275.12	12.19	262.93	22.89
P149	HP360x132	11+723.26	-74.46	286.06	275.17	12.19	262.98	23.08
P150	HP360x132	11+725.08	-74.53	286.31	275.23	12.19	263.04	23.27
P151	HP360x132	11+726.91	-74.59	286.56	275.29	12.19	263.09	23.46
P152	HP360x132	11+728.74	-74.63	286.81	275.34	12.19	263.15	23.66
P153	HP360x152	11+730.56	-74.66	287.02	275.38	17.07	258.31	28.71
P154	HP360x152	11+732.39	-74.67	287.23	275.41	17.07	258.34	28.89
P155	HP360x152	11+734.22	-74.67	287.44	275.44	17.07	258.37	29.06
P156	HP360x152	11+736.05	-74.65	287.64	275.48	17.07	258.41	29.24
P157	HP360x152	11+737.87	-74.62	287.85	275.51	17.07	258.44	29.41
P158	HP360x152	11+739.70	-74.57	288.06	275.54	17.07	258.47	29.59
P159	HP360x152	11+741.51	-74.52	288.27	275.57	17.07	258.50	29.76
P160	HP360x152	11+743.34	-74.46	288.47	275.61	17.07	258.54	29.94
P161	HP360x152	11+745.17	-74.41	288.68	275.64	17.07	258.57	30.11
P162	HP360x152	11+746.99	-74.35	288.89	275.67	17.07	258.60	30.29
P163	HP360x152	11+748.82	-74.30	289.10	275.70	17.07	258.63	30.46
P164	HP360x152	6+001.13	-14.57	289.31	275.73	17.07	258.66	30.65
P165	HP360x152	6+002.96	-14.57	289.52	275.75	17.07	258.68	30.84
P166	HP360x152	6+004.79	-14.57	289.73	275.77	17.07	258.70	31.03
P167	HP360x152	6+006.61	-14.57	289.94	275.79	17.07	258.72	31.22
P168	HP360x152	6+008.44	-14.57	290.16	275.81	17.07	258.74	31.41
P169	HP360x152	6+010.27	-14.57	290.37	275.83	17.07	258.76	31.61
P170	HP360x152	6+012.10	-14.57	290.58	275.85	17.07	258.78	31.80
P171	HP360x152	6+013.93	-14.57	290.79	275.87	17.07	258.80	31.99
P172	HP360x152	6+015.76	-14.57	291.01	275.89	17.07	258.82	32.18
P173	HP360x152	6+017.59	-14.57	291.22	275.91	17.07	258.85	32.37
P174	HP360x174	6+019.42	-14.57	291.43	275.93	18.29	257.65	33.79
P175	HP360x174	6+021.25	-14.57	291.58	275.94	18.29	257.65	33.93
P176	HP360x174	6+023.08	-14.57	291.70	275.94	18.29	257.65	34.05
P177	HP360x174	6+024.90	-14.57	291.82	275.94	18.29	257.65	34.16
P178	HP360x174	6+026.73	-14.57	291.94	275.94	18.29	257.66	34.28
P179	HP360x174	6+028.56	-14.57	292.06	275.94	18.29	257.66	34.40
P180	HP360x174	6+030.39	-14.57	292.18	275.94	18.29	257.66	34.52
P181	HP360x174	6+032.22	-14.57	292.29	275.95	18.29	257.66	34.64
P182	HP360x174	6+034.05	-14.57	292.41	275.95	18.29	257.66	34.76
P183	HP360x174	6+035.88	-14.57	292.53	275.95	18.29	257.66	34.87
P184	HP360x174	6+037.71	-14.57	292.65	275.95	18.29	257.66	34.99
P185	HP360x174	6+039.54	-14.57	292.77	275.95	18.29	257.66	35.11
P186	HP360x174	6+041.37	-14.57	292.95	275.95	18.29	257.66	35.29
P187	HP360x174	6+043.19	-14.57	293.15	275.95	18.29	257.67	35.48
P188	HP360x174	6+045.02	-14.57	293.35	275.96	18.29	257.67	35.68
P189	HP360x174	6+046.85	-14.57	293.55	275.96	18.29	257.67	35.88
P190	HP360x174	6+048.68	-14.57	293.75	275.97	18.29	257.68	36.08
P191	HP360x174	6+050.51	-14.57	293.96	275.97	18.29	257.68	36.27
P192	HP360x174	6+052.34	-14.57	294.16	275.98	18.29	257.69	36.47
P193	HP360x174	6+054.17	-14.57	294.36	275.98	18.29	257.69	36.67
P194	HP360x174	6+056.00	-14.57	294.56	275.98	18.29	257.69	36.87
P195	HP360x174	6+057.83	-14.57	294.76	275.99	18.29	257.70	37.06
P196	HP360x174	6+059.66	-14.57	294.96	275.99	2.20	273.79	21.17
P197	HP360x174	6+061.48	-14.57	294.95	275.98	2.20	273.78	21.17
P198	HP360x174	6+063.31	-14.57	294.89	275.97	2.20	273.77	21.12
P199	HP360x174	6+065.14	-14.57	294.83	275.96	2.20	273.76	21.06
P200	HP360x174	6+066.97	-14.57	294.77	275.95	2.20	273.75	21.01
P201	HP360x132	6+068.80	-14.57	294.71	275.94	2.20	273.74	20.96
P202	HP360x132	6+070.63	-14.57	294.65	275.93	2.20	273.73	20.91
P203	HP360x132	6+072.46	-14.57	294.58	275.92	2.20	273.72	20.86
P204	HP360x132	6+074.29	-14.57	294.52	275.91	2.20	273.71	20.81
P205	HP360x132	6+076.12	-14.57	294.46	275.90	2.20	273.70	20.76
P206	HP360x132	6+077.95	-14.57	294.40	275.89	2.20	273.69	20.71
P207	HP360x132	6+079.77	-14.57	294.34	275.88	2.20	273.68	20.66
P208	HP360x132	6+081.60	-14.57	294.28	275.86	2.20	273.66	20.62
P209	HP360x132	6+083.43	-14.57	294.22	275.84	2.20	273.64	20.58
P210	HP360x132	6+085.26	-14.57	294.16	275.82	2.20	273.62	20.54
P211	HP360x132	6+087.09	-14.57	294.10	275.80	2.20	273.60	20.50
P212	HP360x132	6+088.92	-14.57	294.04	275.77	2.20	273.57	20.46
P213	HP360x132	6+090.75	-14.57	293.98	275.75	2.20	273.55	20.42
P214	HP360x132	6+092.58	-14.57	293.91	275.73	2.20	273.53	20.39
P215	HP360x132	6+094.41	-14.57	293.85	275.71	2.20	273.51	20.35
P216	HP360x132	6+096.24	-14.57	293.79	275.68	2.20	273.48	20.31
P217	HP360x132	6+098.06	-14.57	293.73	275.66	2.20	273.46	20.27
P218	HP360x132	6+099.89	-14.57	293.67	275.64	2.20	273.44	20.23
P219	HP360x132	6+101.72	-14.57	293.61	275.61	2.20	273.41	20.20
P220	HP360x132	6+103.55	-14.57	293.55	275.57	2.20	273.37	20.18
P221	HP360x132	6+105.38	-14.57	293.49	275.54	1.52	274.01	19.47
P222	HP360x132	6+107.21	-14.57	293.43	275.50	1.52	273.98	19.45
P223	HP360x132	6+109.04	-14.57	293.37	275.47	1.52	273.94	19.42
P224	HP360x132	6+110.87	-14.57	293.30	275.43	1.52	273.91	19.40
P225	HP360x132	6+112.70	-14.57	293.24	275.40	1.52	273.87	19.37
P226	HP360x132	6+114.53	-14.57	293.18	275.36	1.52	273.84	19.34
P227	HP360x132	6+116.35	-14.57	293.12	275.33	1.52	273.81	19.32
P228	HP360x132	6+118.18	-14.57	293.06	275.29	1.52	273.77	19.29
P229	HP360x132	6+120.01	-14.57	293.00	275.26	1.52	273.74	19.26
P230	HP360x132	6+121.84	-14.57	292.87	275.21	1.52	273.69	19.18
P231	HP360x132	6+123.67	-14.57	292.74	275.17	1.52	273.64	19.09
P232	HP360x132	6+125.50	-14.57	292.61	275.12	1.52	273.60	19.01
P233	HP360x132	6+127.33	-14.57	292.47	275.07	1.52	273.55	18.93
P234	HP360x132	6+129.16	-14.57	292.34	275.03	1.52	273.50	18.84
P235	HP360x132	6+130.99	-14.57	292.21	274.98	1.52	273.45	18.76
P236	HP360x132	6+132.82	-14.57	292.08	274.93	1.52	273.41	18.67
P237	HP360x132	6+134.64	-14.57	291.95	274.88	1.52	273.36	18.59
P238	HP360x132	6+136.47	-14.57	291.82	274.84	1.52	273.31	18.51
P239	HP360x132	6+138.30	-14.57	291.69	274.79	1.52	273.27	18.42
P240	HP360x132	6+140.13	-14.57	291.56	274.74	1.52	273.22	18.34
P241	HP360x132	6+141.96	-14.57	291.43	274.68	1.52	273.16	18.27
P242	HP360x132	6+143.79	-14.57	291.30	274.62	1.52	273.10	18.19
P243	HP360x132	6+145.62	-14.57	291.16	274.57	1.52	273.04	18.12
P244	HP360x132	6+147.45	-14.57	291.03	274.51	2.20	272.31	18.73
P245	HP360x132	6+149.28	-14.57	290.90	274.45	2.20	272.25	18.65
P246	HP360x109	6+151.11	-14.57	290.77	274.39	2.20	272.19	18.58
P247	HP360x109	6+152.93	-14.57	290.64	274.33	2.20	272.13	18.51
P248	HP360x109	6+154.76	-14.57	290.51	274.27	2.20	272.07	18.44
P249	HP360x109	6+156.59	-14.57	290.38	274.21	2.20	272.01	18.37
P250	HP360x109	6+158.42	-14.57	290.25	274.15	2.20	271.95	18.30
P251	HP360x109	6+160.25	-14.57	290.12	274.09	2.20	271.89	18.22
P252	HP360x109	6+162.08	-14.57	289.98	274.03	2.20	271.83	18.16
P253	HP360x109	6+163.91	-14.57	289.85	273.96	2.20	271.76	18.09
P254	HP360x109	6+165.74	-14.57	289.72	273.90	2.20	271.70	18.03
P255	HP360x109	6+167.57	-14.57	289.59	273.83	2.20	271.63	17.96
P256	HP360x109	6+169.40	-14.57	289.46	273.77	2.20	271.57	17.90
P257	HP360x109	6+171.22	-14.57	289.33	273.70	2.20	271.50	17.83
P258	HP360x109	6+173.05	-14.57	289.20	273.63	2.20	271.43	17.76
P259	HP360x109	6+174.88	-14.57	289.07	273.57	2.20	271.37	17.70
P260	HP360x109	6+176.71	-14.57	288.94	273.50	2.20	271.30	17.63
P261	HP360x109	6+178.54	-14.57	288.80	273.44	2.20	271.24	17.57
P262	HP360x109	6+180.37	-14.57	288.68	273.37	2.20	271.17	17.51
P263	HP360x109	6+182.20	-14.57	288.57	273.31	2.20	271.11	17.47
P264	HP360x109	6+184.03	-14.57	288.47	273.24	2.20	271.04	17.43

PILE SCHEDULE FOR: Wall 8 (CONTINUED)

Pile #	Pile size (GR345)	Station	Offest (m)	Top Elevation (m)	Bottom of Wall Elevation (m)	Minimum Embedment Depth (m)	Tip Elevation (m)	Total Length (m)
P265	HP360x109	6+185.86	-14.57	288.36	273.18	2.20	270.98	17.39
P266	HP360x109	6+187.69	-14.57	288.26	273.11	2.20	270.91	17.35
P267	HP360x109	6+189.51	-14.57	288.15	273.05	2.20	270.85	17.31
P268	HP360x109	6+191.34	-14.57	288.05	272.98	2.20	270.78	17.27
P269	HP360x109	6+193.17	-14.57	287.94	272.92	2.20	270.72	17.23
P270	HP360x109	6+195.00	-14.57	287.84	272.85	2.20	270.65	17.19
P271	HP360x109	6+196.83	-14.57	287.73	272.79	2.20	270.59	17.15
P272	HP360x109	6+198.66	-14.57	287.63	272.72	2.20	270.52	17.11
P273	HP360x109	6+200.49	-14.57	287.52	272.66	2.20	270.46	17.07
P274	HP360x109	6+202.32	-14.57	287.42	272.59	2.20	270.39	17.03
P275	HP360x109	6+204.15	-14.57	287.31	272.52	2.20	270.32	16.99
P276	HP360x109	6+205.98	-14.57	287.21	272.46	2.20	270.26	16.95
P277	HP360x109	6+207.80	-14.57	287.10	272.39	2.20	270.19	16.91
P278	HP360x109	6+209.63	-14.57	287.00	272.33	2.20	270.13	16.87
P279	HP360x109	6+211.46	-14.57	286.89	272.26	2.20	270.06	16.83
P280	HP360x109	6+213.29	-14.57	286.79	272.20	2.20	270.00	16.79
P281	HP360x109	6+215.12	-14.57	286.68	272.13	2.20	269.93	16.75
P282	HP360x109	6+216.95	-14.57	286.58	272.07	2.20	269.87	16.71
P283	HP360x109	6+218.78	-14.57	286.47	272.00	2.20	269.80	16.67
P284	HP360x109	6+220.61	-14.57	286.29	271.94	2.20	269.74	16.55
P285	HP360x109	6+222.44	-14.57	285.96	271.87	2.20	269.67	16.29
P286	HP360x109	6+224.27	-14.57	285.63	271.81	2.20	269.61	16.03
P287	HP360x109	6+226.09	-14.57	285.30	271.74	2.20	269.54	15.76
P288	HP360x109	6+227.92	-14.57	284.97	271.68	2.20	269.48	15.50
P289	HP360x109	6+229.75	-14.57	284.64	271.61	2.20	269.41	15.23
P290	HP360x109	6+231.58	-14.57	284.32	271.55	2.20	269.35	14.97
P291	HP360x109	6+233.41	-14.57	283.99	271.48	2.20	269.28	14.71
P292	HP360x109	6+235.24	-14.57	283.66	271.42	2.20	269.22	14.44
P293	HP360x109	6+237.07	-14.57	283.33	271.35	2.20	269.15	14.18
P294	HP360x109	6+238.90	-14.57	283.00	271.28	2.20	269.08	13.91
P295	HP360x109	6+240.73	-14.57	282.59	271.22	2.20	269.02	13.57
P296	HP360x109	6+242.56	-14.57	282.05	271.15	2.20	268.95	13.09
P297	HP360x109	6+244.38	-14.57	281.51	271.09	2.20	268.89	12.62
P298	HP360x109	6+246.21	-14.57	280.97	271.02	2.20	268.82	12.14
P299	HP360x109	6+248.04	-14.57	280.43	270.96	2.20	268.76	11.67
P300	HP360x109	6+249.87	-14.57	279.89	270.89	2.20	268.69	11.20
P301	HP360x109	6+251.70	-14.57	279.35	270.83	2.20	268.63	10.72
P302	HP360x109	6+253.53	-14.57	278.81	270.76	2.20	268.56	10.25
P303	HP360x109	6+255.36	-14.57	278.27	270.70	2.20	268.50	9.77
P304	HP360x109	6+257.19	-14.57	277.73	270.63	2.20	268.43	9.30
P305	HP360x109	6+259.02	-14.57	277.19	270.57	2.20	268.37	8.82
P306	HP360x109	6+260.85	-14.57	276.65	270.53	2.20	268.33	8.32
P307	HP360x109	6+262.67	-14.57	276.11	270.53	2.20	268.33	7.78
P308	HP360x109	6+264.50	-14.57	275.57	270.53	2.20	268.33	7.24
P309	HP360x109	6+266.33	-14.57	275.03	270.53	2.20	268.33	6.71
P310	HP360x109	6+268.16	-14.57	274.49	270.52	2.20	268.32	6.17
P311	HP360x109	6+269.99	-14.57	273.95	270.52	2.20	268.32	5.63
P312	HP360x109	6+271.82	-14.57	273.41	270.52	2.20	268.32	5.09
P313	HP360x109	6+273.65	-14.57	272.87	270.52	2.20	268.32	4.55
P314	HP360x109	6+275.00	-14.57	272.48	270.52	2.20	268.32	4.16

NOTES:

1. ANCHOR FREE LENGTH IS THE MINIMUM ACCEPTABLE LENGTH.
2. CONTRACTOR SHALL DETERMINE ANCHOR BOND LENGTH REQUIRED TO MEET LOADS LISTED IN ANCHOR SCHEDULE.
3. ALL EXPOSED WALL SURFACES SHALL RECEIVE A CUSTOM FORM LINER FINISH. SEE NOTES AND FORM LINER PATTERNS ON SHEET "RETAINING WALLS ON PROJECT STATE ROUTE 115" FOR INFORMATION REGARDING WALL FINISH.
4. SEE SHEET "RETAINING WALL NO. 7 AND NO. 8 DETAILS" AND SHEET "RETAINING WALL NO. 7 AND NO. 8 ANCHOR WALL NOTES" FOR FURTHER DETAILS PERTAINING TO WALL FACING, ANCHOR INSTALLATION, TESTING, PAYMENT, MATERIAL REQUIREMENTS, AND OTHER REQUIREMENTS FOR ANCHOR WALL CONSTRUCTION AND ACCEPTANCE.

SEALED BY

PRELIMINARY PLANS

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PILE AND ANCHOR SCHEDULES RETAINING WALL NO. 8

SCALE: AS NOTED

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	2P8
			166

ANCHOR SCHEDULE FOR: **Wall 8**

Row 1

Pile #	No. of Anchors (ea)	Elevation (m)	Angle of Inclination (deg)	No. of Strands per Anchor	Design Load (kN)	Test Load (kN)	Minimum Anchor Free Length (m)
P1	1	276.8	20.0	4	556.0	741.1	15.0
P2	1	277.0	20.0	4	556.0	741.1	15.0
P3	1	277.2	20.0	4	556.0	741.1	27.0
P4	1	277.3	20.0	5	623.0	830.5	27.0
P5	1	277.5	20.0	5	623.0	830.5	27.0
P6	1	277.7	20.0	5	623.0	830.5	27.0
P7	1	277.9	20.0	5	623.0	830.5	27.0
P8	1	278.1	20.0	5	623.0	830.5	27.0
P9	1	278.2	20.0	5	623.0	830.5	27.0
P10	1	278.4	20.0	5	623.0	830.5	27.0
P11	1	278.6	20.0	5	623.0	830.5	27.0
P12	1	278.8	20.0	5	623.0	830.5	27.0
P13 - P14	2	278.9	20.0	5	623.0	830.5	27.0
P15 - P16	2	279.0	20.0	5	623.0	830.5	27.0
P17 - P18	2	279.1	20.0	5	623.0	830.5	27.0
P19 - P20	2	279.2	20.0	5	623.0	830.5	27.0
P21 - P23	3	279.3	20.0	5	623.0	830.5	27.0
P24 - P25	2	279.4	20.0	5	623.0	830.5	27.0
P26 - P27	2	279.5	20.0	5	623.0	830.5	27.0
P28 - P29	2	279.6	20.0	5	623.0	830.5	27.0
P30 - P32	3	279.7	20.0	5	623.0	830.5	27.0
P33 - P34	2	279.8	20.0	5	623.0	830.5	27.0
P35 - P38	4	279.9	20.0	5	623.0	830.5	27.0
P39 - P42	4	280.0	20.0	5	623.0	830.5	27.0
P43 - P47	5	280.1	20.0	5	623.0	830.5	27.0
P48 - P52	5	280.2	20.0	5	623.0	830.5	27.0
P53 - P57	5	280.3	20.0	5	623.0	830.5	27.0
P58 - P62	5	280.4	20.0	5	623.0	830.5	27.0
P63 - P67	5	280.5	20.0	5	623.0	830.5	27.0
P68 - P73	6	280.6	20.0	5	623.0	830.5	27.0
P74 - P78	5	280.7	20.0	5	623.0	830.5	27.0
P79 - P84	6	280.8	20.0	5	623.0	830.5	27.0
P85 - P89	5	280.9	20.0	5	623.0	830.5	27.0
P90 - P95	6	281.0	20.0	5	623.0	830.5	27.0
P96 - P100	5	281.1	20.0	5	623.0	830.5	27.0
P101 - P106	6	281.2	20.0	5	623.0	830.5	27.0
P107 - P111	5	281.3	20.0	5	623.0	830.5	27.0
P112 - P116	5	281.4	20.0	5	623.0	830.5	27.0
P117 - P122	6	281.5	20.0	5	623.0	830.5	27.0
P123 - P128	6	281.6	20.0	5	623.0	830.5	27.0
P129 - P134	6	281.7	20.0	5	623.0	830.5	27.0
P135 - P139	5	281.8	20.0	5	623.0	830.5	27.0
P140	1	281.9	20.0	5	623.0	830.5	27.0
P141 - P144	4	282.2	20.0	5	623.0	830.5	27.0
P145 - P152	8	284.3	20.0	5	667.0	889.1	35.0
P153 - P163	11	286.4	20.0	5	667.0	889.1	23.0
P164 - P173	10	288.6	20.0	5	667.0	889.1	26.0
P174 - P188	15	290.7	20.0	5	712.0	949.1	23.0
P189 - P201	13	292.8	20.0	5	712.0	949.1	25.0
P202 - P227	26	292.8	20.0	4	556.0	741.1	25.0
P228 - P239	12	290.7	20.0	4	556.0	741.1	23.0
P240 - P242	3	290.7	20.0	5	623.0	830.5	20.0
P243 - P258	16	288.6	20.0	5	623.0	830.5	18.0
P259 - P277	19	286.4	20.0	5	623.0	830.5	16.0
P278 - P283	6	284.3	20.0	5	623.0	830.5	16.0
P284 - P288	5	284.3	20.0	4	556.0	741.1	16.0
P289 - P294	6	282.2	20.0	4	556.0	741.1	16.0
P295 - P298	4	280.0	20.0	4	556.0	741.1	16.0
P299 - P302	4	277.9	20.0	4	556.0	741.1	16.0
P303 - P306	4	275.8	20.0	4	556.0	741.1	16.0
P307 - P310	4	273.6	20.0	4	556.0	741.1	16.0

Row 2

Pile #	No. of Anchors (ea)	Elevation (m)	Angle of Inclination (deg)	No. of Strands per Anchor	Design Load (kN)	Test Load (kN)	Minimum Anchor Free Length (m)
P4	1	275.2	20.0	5	623.0	830.5	13.0
P5	1	275.4	20.0	5	623.0	830.5	13.0
P6	1	275.6	20.0	5	623.0	830.5	13.0
P7	1	275.7	20.0	5	623.0	830.5	13.0
P8	1	275.9	20.0	5	623.0	830.5	13.0
P9	1	276.1	20.0	5	623.0	830.5	13.0
P10	1	276.3	20.0	5	623.0	830.5	13.0
P11	1	276.5	20.0	5	623.0	830.5	13.0
P12	1	276.6	20.0	5	623.0	830.5	13.0
P13 - P15	3	276.8	20.0	5	623.0	830.5	13.0
P16 - P17	2	276.9	20.0	5	623.0	830.5	13.0
P18	1	277.0	20.0	5	623.0	830.5	13.0
P19	1	277.0	20.0	5	623.0	830.5	25.0
P20 - P21	2	277.1	20.0	5	623.0	830.5	25.0
P22 - P23	2	277.2	20.0	5	623.0	830.5	25.0
P24 - P26	3	277.3	20.0	5	623.0	830.5	25.0
P27 - P28	2	277.4	20.0	5	623.0	830.5	25.0
P29 - P30	2	277.5	20.0	5	623.0	830.5	25.0
P31 - P32	2	277.6	20.0	5	623.0	830.5	25.0
P33 - P35	3	277.7	20.0	5	623.0	830.5	25.0
P36 - P39	4	277.8	20.0	5	623.0	830.5	25.0
P40 - P43	4	277.9	20.0	5	623.0	830.5	25.0
P44 - P48	5	278.0	20.0	5	623.0	830.5	25.0
P49 - P54	6	278.1	20.0	5	623.0	830.5	25.0
P55 - P59	5	278.2	20.0	5	623.0	830.5	25.0
P60 - P64	5	278.3	20.0	5	623.0	830.5	25.0
P65 - P69	5	278.4	20.0	5	623.0	830.5	25.0
P70 - P74	5	278.5	20.0	5	623.0	830.5	25.0
P75 - P80	6	278.6	20.0	5	623.0	830.5	25.0
P81 - P85	5	278.7	20.0	5	623.0	830.5	25.0
P86 - P91	6	278.8	20.0	5	623.0	830.5	25.0
P92 -P96	5	278.9	20.0	5	623.0	830.5	25.0
P97 - P102	6	279.0	20.0	5	623.0	830.5	25.0
P103 - P107	5	279.1	20.0	5	623.0	830.5	25.0
P108 - P113	6	279.2	20.0	5	623.0	830.5	25.0
P114 - P118	5	279.3	20.0	5	623.0	830.5	25.0
P119 - P124	6	279.4	20.0	5	623.0	830.5	25.0
P125 - P130	6	279.5	20.0	5	623.0	830.5	25.0
P131 - P135	5	279.6	20.0	5	623.0	830.5	25.0
P136 - P140	5	279.7	20.0	5	623.0	830.5	25.0
P141 - P144	4	280.0	20.0	5	623.0	830.5	25.0
P145 - P152	8	282.2	20.0	5	623.0	830.5	33.0
P153 - P163	11	284.3	20.0	5	667.0	889.1	23.0
P164 - P173	10	286.4	20.0	5	667.0	889.1	23.0
P174 - P188	15	288.6	20.0	5	712.0	949.1	21.0
P189 - P201	13	290.7	20.0	5	712.0	949.1	23.0
P202 - P227	26	290.7	20.0	4	556.0	741.1	23.0
P228 - P234	7	286.4	20.0	4	556.0	741.1	18.0
P235 - P239	5	288.6	20.0	4	556.0	741.1	18.0
P240 -P242	3	288.6	20.0	5	623.0	830.5	18.0
P243 - P258	16	286.4	20.0	5	623.0	830.5	16.0
P259 - P277	19	282.2	20.0	4	556.0	741.1	14.0
P278 - P283	6	280.0	20.0	4	556.0	741.1	14.0
P284 - P288	5	280.0	20.0	4	556.0	741.1	13.0
P289 - P294	6	277.9	20.0	4	556.0	741.1	13.0
P295 - P298	4	275.8	20.0	4	556.0	741.1	13.0
P299 - P306	8	273.6	20.0	4	556.0	741.1	13.0

ANCHOR SCHEDULE FOR: **Wall 8 (CONTINUED)**

Row 3

Pile #	No. of Anchors (ea)	Elevation (m)	Angle of Inclination (deg)	No. of Strands per Anchor	Design Load (kN)	Test Load (kN)	Minimum Anchor Free Length (m)
P19 - P20	2	274.9	20.0	5	623.0	830.5	22.0
P21 - P22	2	275.0	20.0	5	623.0	830.5	22.0
P23 - P24	2	275.1	20.0	5	623.0	830.5	22.0
P25 - P26	2	275.2	20.0	5	623.0	830.5	22.0
P27 - P29	3	275.3	20.0	5	623.0	830.5	22.0
P30 - P31	2	275.4	20.0	5	623.0	830.5	22.0
P32 - P33	2	275.5	20.0	5	623.0	830.5	22.0
P34 - P36	3	275.6	20.0	5	623.0	830.5	22.0
P37 - P41	5	275.7	20.0	5	623.0	830.5	22.0
P42 - P45	4	275.8	20.0	5	623.0	830.5	22.0
P46 - P50	5	275.9	20.0	5	623.0	830.5	22.0
P51 - P55	5	276.0	20.0	5	623.0	830.5	22.0
P56 - P60	5	276.1	20.0	5	623.0	830.5	22.0
P61 - P66	6	276.2	20.0	5	623.0	830.5	22.0
P67 - P71	5	276.3	20.0	5	623.0	830.5	22.0
P72 - P76	5	276.4	20.0	5	623.0	830.5	22.0
P77 - P82	6	276.5	20.0	5	623.0	830.5	22.0
P83 - P87	5	276.6	20.0	5	623.0	830.5	22.0
P88 - P93	6	276.7	20.0	5	623.0	830.5	22.0
P94 - P98	5	276.8	20.0	5	623.0	830.5	22.0
P99 - P104	6	276.9	20.0	5	623.0	830.5	22.0
P105 -P109	5	277.0	20.0	5	623.0	830.5	22.0
P110 - P115	6	277.1	20.0	5	623.0	830.5	22.0
P116 - P120	5	277.2	20.0	5	623.0	830.5	22.0
P121 - P126	6	277.3	20.0	5	623.0	830.5	22.0
P127 - P132	6	277.4	20.0	5	623.0	830.5	22.0
P133 - P137	5	277.5	20.0	5	623.0	830.5	22.0
P138 - P140	3	277.6	20.0	5	623.0	830.5	22.0
P141 - P144	4	277.9	20.0	5	623.0	830.5	22.0
P145 - P152	8	280.0	20.0	5	623.0	830.5	30.0
P153 - P163	11	282.2	20.0	5	667.0	889.1	20.0
P164 - P173	10	284.3	20.0	5	667.0	889.1	23.0
P174 - P188	15	286.4	20.0	5	712.0	949.1	19.0
P189 - P201	13	288.6	20.0	5	712.0	949.1	21.0
P202 - P227	26	286.4	20.0	4	556.0	741.1	18.0
P228	1	282.2	20.0	4	556.0	741.1	13.0
P229	1	282.2	20.0	4	556.0	741.1	13.0
P235 - P239	5	286.4	20.0	4	556.0	741.1	18.0
P240 - P242	3	286.4	20.0	5	623.0	830.5	16.0
P243 - P258	16	282.2	20.0	4	556.0	741.1	14.0
P259 - P277	19	277.9	20.0	4	556.0	741.1	9.0
P278 - P288	11	275.8	20.0	4	556.0	741.1	9.0
P289 - P294	6	273.6	20.0	4	556.0	741.1	9.0

Row 4

Pile #	No. of Anchors (ea)	Elevation (m)	Angle of Inclination (deg)	No. of Strands per Anchor	Design Load (kN)	Test Load (kN)	Minimum Anchor Free Length (m)
P145 - P152	8	277.9	20.0	5	623.0	830.5	27.0
P153 - P163	11	280.0	20.0	5	667.0	889.1	15.0
P164 - P173	10	282.2	20.0	5	667.0	889.1	20.0
P174 - P188	15	284.3	20.0	5	712.0	949.1	17.0
P189 - P201	13	286.4	20.0	5	712.0	949.1	19.0
P202 - P227	26	286.4	20.0	4	556.0	741.1	13.0
P237 - P242	6	282.2	20.0	4	556.0	741.1	14.0
P243 - P258	16	277.9	20.0	4	556.0	741.1	9.0
P273 - P277	5	273.6	20.0	4	556.0	741.1	9.0

Row 5

Pile #	No. of Anchors (ea)	Elevation (m)	Angle of Inclination (deg)	No. of Strands per Anchor	Design Load (kN)	Test Load (kN)	Minimum Anchor Free Length (m)
P153 - P163	11	277.9	20.0	5	667.0	889.1	12.0
P164 - P173	10	280.0	20.0	5	667.0	889.1	15.0
P174 - P188	15	282.2	20.0	5	712.0	949.1	15.0
P189 - P201	13	284.3	20.0	5	712.0	949.1	17.0
P202 - P222	21	277.9	20.0	4	556.0	741.1	8.0
P240 - P242	3	277.9	20.0	4	556.0	741.1	9.0

Row 6

Pile #	No. of Anchors (ea)	Elevation (m)	Angle of Inclination (deg)	No. of Strands per Anchor	Design Load (kN)	Test Load (kN)	Minimum Anchor Free Length (m)
P164 - P173	10	277.9	20.0	5	667.0	889.1	12.0
P174 - P188	15	280.0	20.0	5	712.0	949.1	14.0
P189 - P201	13	282.2	20.0	5	712.0	949.1	15.0

Row 7

Pile #	No. of Anchors (ea)	Elevation (m)	Angle of Inclination (deg)	No. of Strands per Anchor	Design Load (kN)	Test Load (kN)	Minimum Anchor Free Length (m)
P174 - P188	15	277.9	20.0	5	712.0	949.1	12.0
P189 - P201	13	280.0	20.0	5	712.0	949.1	14.0

Row 8

Pile #	No. of Anchors (ea)	Elevation (m)	Angle of Inclination (deg)	No. of Strands per Anchor	Design Load (kN)	Test Load (kN)	Minimum Anchor Free Length (m)
P189 - P201	13	277.9	20.0	5	712.0	949.1	12.0

NOTES:

1. ANCHOR FREE LENGTH IS THE MINIMUM ACCEPTABLE LENGTH.
2. CONTRACTOR SHALL DETERMINE ANCHOR BOND LENGTH REQUIRED TO MEET LOADS LISTED IN ANCHOR SCHEDULE.
3. ALL EXPOSED WALL SURFACES SHALL RECEIVE A CUSTOM FORM LINER FINISH. SEE NOTES AND FORM LINER PATTERNS ON SHEET "RETAINING WALLS ON PROJECT STATE ROUTE 115" FOR INFORMATION REGARDING WALL FINISH.
4. SEE SHEET "RETAINING WALL NO. 7 AND NO. 8 DETAILS" AND SHEET "RETAINING WALL NO. 7 AND NO. 8 ANCHOR WALL NOTES" FOR FURTHER DETAILS PERTAINING TO WALL FACING, ANCHOR INSTALLATION, TESTING, PAYMENT, MATERIAL REQUIREMENTS, AND OTHER REQUIREMENTS FOR ANCHOR WALL CONSTRUCTION AND ACCEPTANCE.

PRELIMINARY

PLANS

TENNESSEE METRIC

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PILE AND ANCHOR SCHEDULES RETAINING WALL NO. 8 CONTINUED

SCALE: AS NOTED

9/10/2015
R:_Infrastructure Project Files\2015 Infra Projects\T68I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\14_RETAINING WALL 8 PILE AND ANCHOR SCHEDULE.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167

GEOTECHNICAL NOTES

1. REFERENCES TO THE GEOTECHNICAL REPORT ARE FOR: GEOTECHNICAL RETAINING WALL REPORT PROPOSED SR 115 WIDENING RAMPS B AND COLLECTOR 6, AMEC FOSTER WHEELER FILE NO. 7681-15-002.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SAFE EXCAVATIONS IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. CONTRACTOR SHALL USE TOP-DOWN CONSTRUCTION TECHNIQUES TO INSTALL TIEBACK WALLS, MINIMIZE NECESSARY TEMPORARY CUTS, AND PREPARE ACCESS IN A MANNER TO REDUCE GROUND DISTURBANCE. SITE SOILS ARE HIGHLY ERODIBLE, SO, CONTRACTOR SHALL PROVIDE EROSION PROTECTION PRIOR TO ALL GROUND DISTURBANCES, AND IMMEDIATELY REVEGETATE EXPOSED SOIL. DO NOT LEAVE TEMPORARY SLOPES EXPOSED WITHOUT SHORING, EROSION PROTECTION, AND/OR REVEGETATION. PROVIDE TEMPORARY SHORING IF SLOPES BECOME UNSTABLE, ERODE, ARE STEEPER THAN A 2:1, OR ARE UNACCEPTABLE FOR ANOTHER REASON. REPORT ANY UNUSUAL SOIL/ROCK CONDITIONS TO PROJECT ENGINEER.

SOIL DESCRIPTIONS

(A) — SOIL MATERIAL/FILL

SOIL MATERIAL IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, OR BOULDERS OF LESS THAN APPROXIMATELY 0.5 CUBIC METERS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC METERS VOLUME) OR A COMBINATION OF ANY OF THE CONSTITUENTS. FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY BE CONSIDERED TO BE EXCAVATABLE BY CONVENTIONAL EXCAVATION MACHINERY SUCH AS PANS, TRACK HOES, OR FRONT END EXCAVATORS/LOADERS. THIS MATERIAL WOULD HAVE A SHRINK FACTOR AS GIVEN IN THE SHRINK FACTORS SHOWN IN SECTION 2-145.10 OF THE DESIGN GUIDELINES OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TEST DIVISION.

(B) — SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES SO FIRMLY BONDED TOGETHER THAT RELATIVELY GREAT EFFORT IS REQUIRED TO SEPARATE THE PARTICLES (I.E. BLASTING OR HEAVY CRUSHING FORCES). FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY HAVE TO BE BLASTED TO SEPARATE INTO PIECES SMALL ENOUGH TO LOAD AND TRANSPORT ON EARTH MOVING TRUCKS AND WHICH WHEN SUBJECTED TO PROPER PRE-SPLIT AND PRODUCTION BLASTING WOULD RESULT IN A UNIFORM STABLE ROCKCUT FACE. NOTE THAT THIS MATERIAL WOULD NOT BY DEFINITION NECESSARILY BE A PROVEN SOURCE OF ANY ROCK TYPE AGGREGATE SUCH AS SOLID ROCK, GRADED SOLID ROCK, RIP RAP, OR OTHER ROCK AGGREGATE CONSTRUCTION PRODUCTS. THIS MATERIAL WOULD HAVE A SIGNIFICANT SWELL FACTOR AS GIVEN IN SWELL FACTORS SHOWN IN SECTION 2-145.10 OF THE DESIGN GUIDELINES OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TEST DIVISION.

(C) — SOFT ROCK OR DEGRADABLE ROCK

THIS MATERIAL IS NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES THAT ARE SO FIRMLY BONDED SUCH THAT THEY ARE NOT FAIRLY READILY SEPARATED INTO SMALL PIECES YET HAS SUCH RELATIVELY LOW BONDING STRENGTH THAT WOULD ALLOW FOR SEPARATING INTO SMALL PIECES THROUGH MODERATE TO HEAVY CRUSHING FORCES. FOR CONSTRUCTION PUPOSES, THIS MATERIAL WOULD HAVE TO BE SUBJECTED TO RIPPING TYPE EQUIPMENT, HOE RAMS, OR RUGGED USE OF A LARGE BULLDOZER IN ORDER TO SEPARATE THE MATERIAL SUCH THAT IT CAN BE READILY LOADED INTO EARTH MOVING TRUCKS. THESE MATERIALS WOULD TYPICALLY BE SHALES, CLAYSTONES, SILTSTONES, WEATHERED SANDSTONES, WEATHERED SCHIST AND WEATHERED GNEISS. THIS MATERIAL WOULD HAVE A RELATIVELY SMALL SHRINK OR SWELL FACTOR DEPENDING ON THE TYPE OF MATERIAL AND THE DEGREE OF WEATHERING, DISINTEGRATION, OR DEGRADATION.

(D) — TRANSITIONAL MATERIAL

THIS MATERIAL IS COMPRISED OF A COMBINATION OF SOIL AND ROCK (MATERIAL A, B, AND C AS DEFINED IN SECTION 4-230.02 OF THE TDOT ROADWAY DESIGN GUIDELINES) OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E. SHALE MATERIAL WITH REALTIVELY THIN LAYERS OF SOLID ROCK SUCH AS HARD LIMESTONE) OR ERRATIC LOCALIZED CHANGES OF MATERIAL TYPES BOTH LATERALLY AND WITH DEPTH (SUCH AS A GEOLOGIC FORMATION RESULTING IN PINNACLED ROCK COLUMNS, FLOATING BOULDERS OR LENSES INTERCALATED WITH CLAY SOIL, A COMMON OCCURRENCE IN CERTAIN REGIONS OF TENNESSEE). FOR CONSTRUCTION PURPOSES, THIS MATERIAL MAY HAVE TO BE EXCAVATED USING A COMBINATION OF EXCAVATION METHODS SUCH AS BLASTING OF ROCK PINNACLES, LAYERS OF BOULDERS ALONG WITH RIPPING OF WEATHERED ROCK AND EXCAVATING OF SOIL WITH TRACK HOES OR LOADERS ALL WITHIN A LOCALIZED AREA. THIS MATERIAL WOULD NOT BE SUITABLE FOR THE USE OF EXCAVATING PAN TYPE EQUIPMENT.

GEOTECHNICAL DRAWING LEGEND

PLAN SYMBOLS

B-84 (0.7) — BORING LOCATION AND NUMBER WITH DRILL DEPTH (NO REFUSAL)

B-84 (0.7) — BORING LOCATION AND NUMBER WITH DRILL DEPTH (REFUSED)

B-84 (0.7 / 10.0) — BORING LOCATION AND NUMBER WITH DEPTH TO REFUSAL (ABOVE LINE) AND BOTTOM OF HOLE DEPTH (BELOW LINE)

PROFILE LINES

PROPOSED GROUND LINE AT PROJECT CENTERLINE

EXISTING GROUND LINE AT PROJECT CENTERLINE

UNKNOWN TOP OF SOUND ROCK

ESTIMATED TOP OF ROCK

BORING PROFILES

(PROJ. 19.5m R) — OFFSET FROM PROJECT CENTERLINE
B-10 — HOLE NUMBER
622.0 — TOP OF HOLE ELEVATION

MATERIAL DESCRIPTIONS, SEE LEGEND BELOW

AR — REFUSAL

SOIL DESCRIPTIONS

(A) SOIL MATERIAL
(B) SOLID ROCK MATERIAL
(C) SOFT ROCK OR DEGRADABLE ROCK
(D) TRANSITIONAL MATERIAL

MATERIAL DESCRIPTION PATTERNS

TOPSOIL
FILL (MADE GROUND)
LOW PLASTICITY CLAY
LOW PLASTICITY SANDY CLAY
SILTY SAND
SILT
SANDY SILT
SANDSTONE
OPEN CAVITY
AUGERED (NOT SAMPLED)
NO RECOVERY
BT — BORING TERMINATED
AR — AUGER REFUSAL

GENERAL NOTES (GEOTECHNICAL):

1. ROADWAY ALIGNMENT BASED ON DATA PROVIDED BY VAUGHN AND MELTON CONSULTING ENGINEERS.
2. GROUNDLINE PROFILES BASED ON DATA PROVIDED BY VAUGHN AND MELTON CONSULTING ENGINEERS.
3. BOREHOLE ELEVATIONS PROVIDED BY VAUGHN AND MELTON SURVEYORS.
4. REPORT OF SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING STUDY FOR GEOTECHNICAL RETAINING WALL REPORT PROPOSED SR 115 WIDENING RAMPS B AND COLLECTOR 6, AMEC FOSTER WHEELER FILE NO. 7681-15-002 AVAILABLE FROM AMEC FOSTER WHEELER, ENVIRONMENT & INFRASTRUCTURE, INC. NASHVILLE, TENNESSEE (615-333-0630).
6. CROSS SECTIONS PROVIDED BY VAUGHN AND MELTON CONSULTING ENGINEERS.

PRELIMINARY
PLANS

METRIC

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL NOTES

SCALE: AS NOTED

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\00.GEOTECHNICAL_NOTES.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167A

amec foster wheeler

GEOTECHNICAL BRANCH
NASHVILLE, TENNESSEE

LOG OF BORING B-01
SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+716, 10.8 m Left — DRY ON COMPLETION ?: YES
DATE: September 1, 2015 — SURFACE ELEV.: 919.2 FT. 280.2 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 30.0 FT. 9.1 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 30.0 FT. 9.1 M — ELEV. 889.2 FT. 271.0 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH FT. M — ELEV. FT. M
AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M
LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	0.5	0.15		A						TOPSOIL/ VEGETATION
		0.5	0.15	1.0	0.30								
		1.0	0.30			S-1	SS	14	5	7	6	13	Clay, silty, sandy, brown (moist)(Stiff)
2.5	0.76			2.5	0.76								
		2.5	0.76				A						
				3.5	1.07								
		3.5	1.07			S-2	SS	16	6	6	8	14	DO1, reddish-brown
5.0	1.52			5.0	1.52								
		5.0	1.52				A						
				6.0	1.83								
		6.0	1.83			S-3	SS	8	3	5	6	11	DO2, Root at tip shaved soil
7.5	2.29			7.5	2.29								
		7.5	2.29				A						
				8.5	2.59								
		8.5	2.59			S-4	SS	18	5	6	9	15	DO2
10.0	3.05			10.0	3.05								
		10.0	3.05			ST-1	ST	0					NO USEABLE RECOVERY
				12.0	3.66								
12.5	3.81	12.0	3.66										
				13.5	4.11	S-5	SS	16	5	7	8	15	DO2 to yellowish-brown
		13.5	4.11										
15.0	4.57												
							A						
17.5	5.33												
				18.5	5.64								
		18.5	5.64										
				20.0	6.10	S-6	SS	4	3	5	3	8	DO5, Med Stiff
20.0	6.10												

REMARKS: Continued On Page 2.

amec foster wheeler

GEOTECHNICAL BRANCH
NASHVILLE, TENNESSEE

LOG OF BORING B-2
SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+725.00 — DRY ON COMPLETION ?: YES
DATE: September 2, 2015 — SURFACE ELEV.: 923.2 FT. 281.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: NA FT. M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 35.0 FT. 10.7 M — ELEV. 888.2 FT. 270.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH FT. M — ELEV. FT. M
AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M
LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	0.5	0.15		A						TOPSOIL/ VEGETATION
		0.5	0.15										
2.5	0.76												Clay, silty, sandy, reddish-brown (moist)(Very Stiff) (FILL)
5.0	1.52												GRAVEL FROM LEACH FIELD (FILL) BORING RELOCATED AND SAMPLING RESUMED AT 6 FEET
7.5	2.29												Clay, sandy, silty, reddish-brown/ yellowish-brown (moist)(Hard)
10.0	3.05						A						Silt, sandy, yellowish-brown (moist)(Hard)(Decomposed Siltstone/ Sandstone)
12.5	3.81												
15.0	4.57												
17.5	5.33												
20.0	6.10			20.0	6.10								Clay, silty, sandy, reddish-brown to yellowish-brown (Moist)

REMARKS: Continued On Page 2.

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GEOTECHNICAL BRANCH
NASHVILLE, TENNESSEE

LOG OF BORING B-03
SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+742, 12.6 m Left — DRY ON COMPLETION ?: YES
DATE: September 2, 2015 — SURFACE ELEV.: 926.5 FT. 282.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 35.0 FT. 10.7 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 35.0 FT. 10.7 M — ELEV. 891.5 FT. 271.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH FT. M — ELEV. FT. M
AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M
LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
				1.0	0.30								
		1.0	0.30			S-1	SS	8	8	8	8	16	Clay, silty, sandy, reddish-brown (moist)(Very Stiff) (FILL)
2.5	0.76			2.5	0.76								
		2.5	0.76				A						
				3.5	1.07								
		3.5	1.07			S-2	SS						GRAVEL FROM LEACH FIELD (FILL) BORING RELOCATED AND SAMPLING RESUMED AT 6 FEET
5.0	1.52			5.0	1.52								
		5.0	1.52				A						
				6.0	1.83								
		6.0	1.83			S-3	SS	16	11	19	25	44	Clay, sandy, silty, reddish-brown/ yellowish-brown (moist)(Hard)
7.5	2.29			7.5	2.29								
		7.5	2.29				A						
				8.5	2.59								
		8.5	2.59			S-4	SS	18	8	15	17	32	Silt, sandy, yellowish-brown (moist)(Hard)(Decomposed Siltstone/ Sandstone)
10.0	3.05			10.0	3.05								
		10.0	3.05			ST-1	ST	REC 1.8					Pocket Penetrometer 3.25 TSF
				12.0	3.66								
12.5	3.81	12.0	3.66										
				13.5	4.11	S-5	SS	18	5	7	11	18	DO4, very stiff
		13.5	4.11										
15.0	4.57												
							A						
17.5	5.33												
				18.5	5.64								
		18.5	5.64										
				20.0	6.10	S-6	SS	16	6	9	10	19	Sand (F-M), silty, dark brown (moist)(Very Stiff to Medium Dense)Decomposed RK
20.0	6.10												

REMARKS: Continued On Page 2.
ORIGINAL LOCATION HIT LEACHATE FIELD OF SEPTIC TANK. BORING MOVED 5' NORTH, 5' WEST

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GEOTECHNICAL BRANCH
NASHVILLE, TENNESSEE

LOG OF BORING B-04
SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+755, 10.8 m Left — DRY ON COMPLETION ?: YES
DATE: September 2, 2015 — SURFACE ELEV.: 927.5 FT. 282.7 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: NA FT. M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 40.0 FT. 12.2 M — ELEV. 887.5 FT. 270.5 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH FT. M — ELEV. FT. M
AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M
LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	0.5	0.15		A						TOPSOIL/ LEAVES
		0.5	0.15										
2.5	0.76												
5.0	1.52						A						Sand (M-F), silty, slightly clayey, dark brown to reddish-brown (moist)
7.5	2.29												
10.0	3.05	10.0	3.05										
12.5	3.81												
15.0	4.57						A						--- yellowish-brown (moist)
17.5	5.33												
		18.0	5.49										
				18.0	5.49								
				20.0	6.10								Silt, sandy to slightly sandy, yellowish-brown to brown (moist)
20.0	6.10												

REMARKS: Continued On Page 2.

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GEOTECHNICAL BRANCH
NASHVILLE, TENNESSEE

LOG OF BORING B-01
SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+716, 10.8 m Left — DRY ON COMPLETION ?: YES
DATE: September 1, 2015 — SURFACE ELEV.: 919.2 FT. 280.2 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 30.0 FT. 9.1 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 30.0 FT. 9.1 M — ELEV. 889.2 FT. 271.0 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH FT. M — ELEV. FT. M
AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M
LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
							A						
22.5	6.86												
				23.5	7.16								
		23.5	7.163										
25.0	7.62			25.0	7.62								
		25.0	7.62			S-7	SS	12	4	4	6	10	DO6, Root at tip split soil, stiff
27.5	8.38												
							A						
				28.5	8.69								
		28.5	8.687										
30.0	9.14			30.0	9.14	S-8	SS	18	3	2	3	5	Silt, slightly sandy, clayey, yellowish-brown mottled reddish-brown (wet)(Medium Stiff)
32.5	9.91												BORING TERMINATED @ 30.0 DRY ON COMPLETION
35.0	10.67												
37.5	11.43												
40.0	12.19												

REMARKS:

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GEOTECHNICAL BRANCH
NASHVILLE, TENNESSEE

LOG OF BORING B-2
SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+725.00 — DRY ON COMPLETION ?: YES
DATE: September 2, 2015 — SURFACE ELEV.: 923.2 FT. 281.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: NA FT. M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 35.0 FT. 10.7 M — ELEV. 888.2 FT. 270.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH FT. M — ELEV. FT. M
AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M
LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86												
25.0	7.62						A						Clay, very silty, slightly sandy, yellowish-brown (Moist)
27.5	8.38												
30.0	9.14	30.0	9.144	30.0	9.14								
32.5	9.91						A						Silt, clayey, slightly sandy, yellowish-brown (Moist)
				35.0	10.67								
35.0	10.67												
37.5	11.43												NO REFUSAL @ 35.0' DRY ON COMPLETION
40.0	12.19												

REMARKS:

amec foster wheeler

GEOTECHNICAL BRANCH
NASHVILLE, TENNESSEE

LOG OF BORING B-03
SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+742, 12.6 m Left — DRY ON COMPLETION ?: YES
DATE: September 2, 2015 — SURFACE ELEV.: 926.5 FT. 282.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 35.0 FT. 10.7 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 35.0 FT. 10.7 M — ELEV. 891.5 FT. 271.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH FT. M — ELEV. FT. M
AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M
LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
							A						
22.5	6.86												
				23.5	7.16								
		23.5	7.163										
25.0	7.62			25.0	7.62								
		25.0	7.62			S-7	SS	14	6	10	12	22	Sand (F-M), silty, dark brown (moist)(Medium Dense)(Decomposed Sandstone)
27.5	8.38												
							A						
				28.5	8.69								
		28.5	8.687										
30.0	9.14			30.0	9.14	S-8	SS	16	4	6	7	13	Sand (F-M), silty, yellowish-brown/ dark brown (moist)(Medium Dense)(Decomposed Sandstone)
		30.0	9.144										
32.5	9.91						A						
				33.5	10.21								
		33.5	10.21										
35.0	10.67					S-9	SS	16	4	7	7	14	DO8 (Medium Dense)
				35.0	10.67								
37.5	11.43												BORING TERMINATED @ 35.0' DRY ON COMPLETION
40.0	12.19												

REMARKS:
ORIGINAL LOCATION HIT LEACHATE FIELD OF SEPTIC TANK. BORING MOVED 5' NORTH, 5' WEST

amec foster wheeler

GEOTECHNICAL BRANCH
NASHVILLE, TENNESSEE

LOG OF BORING B-04
SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+755, 10.8 m Left — DRY ON COMPLETION ?: YES
DATE: September 2, 2015 — SURFACE ELEV.: 927.5 FT. 282.7 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: NA FT. M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 40.0 FT. 12.2 M — ELEV. 887.5 FT. 270.5 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE)
COMPLETION: DEPTH FT. M — ELEV. FT. M
AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M
LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86												
25.0	7.62												
27.5	8.38												
30.0	9.14						A						Silt, sandy to slightly sandy, yellowish-brown to brown (moist)
32.5	9.91												HARD DRILLING 30' TO 40'
35.0	10.67												
37.5	11.43												
40.0	12.19			40.0	12.19								BORING TERMINATED at 12.2 m DRY ON COMPLETION

REMARKS:

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS RETAINING WALLS NO. 7 AND 8

SCALE: AS NOTED

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\Y681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	16/B

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-7, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+800, 10.8 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 929.6 FT. 283.3 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 45.0 FT. 13.7 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 45.0 FT. 13.7 M — ELEV. 884.6 FT. 269.6 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						Clay, sandy, silty, reddish-brown
		1.0	0.30	1.0	0.30	S-1	SS	14	3	4	6	10	Clay, sandy, silty, reddish-brown (moist)(stiff)
2.5	0.76			2.5	0.76		A						
		3.5	1.07	3.5	1.07	S-2	SS	14	3	6	6	12	DO1, slightly sandy, light yellowish-brown
5.0	1.52	5.0	1.52	5.0	1.52		A						
		6.0	1.83	6.0	1.83	S-3	SS	14	4	8	10	18	DO1, sandy, yellowish-brown (Very Stiff)(Decomposed Siltstone/Sandstone)
7.5	2.29	7.5	2.29	7.5	2.29		A						
		8.5	2.59	8.5	2.59	S-4	SS	12	5	6	8	14	DO3, (stiff)
10.0	3.05	10.0	3.05	10.0	3.05		A						
12.5	3.81												
		13.5	4.11	13.5	4.11	S-5	SS	14	5	5	6	11	Sand (M-F), silty, brown (wet)(Medium Dense)(Decomposed Sandstone)
15.0	4.57	15.0	4.57	15.0	4.57		A						
17.5	5.33												
		18.5	5.64	18.5	5.64	S-6	SS	16	4	7	10	17	DO5, yellowish-brown/ brown
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-7, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+800, 10.8 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 929.6 FT. 283.3 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 45.0 FT. 13.7 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): FT. M
BOTTOM OF HOLE: DEPTH 45.0 FT. 13.7 M — ELEV. 884.6 FT. 269.6 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
							A						
42.5	12.95												
		43.5	13.26	43.5	13.26	S-11	SS	16	4	5	6	11	DO10, yellowish-brown
45.0	13.72	45.0	13.72	45.0	13.72								
47.5	14.48												NO REFUSAL @ 45' DRY ON COMPLETION
50.0	15.24												
52.5	16.00												
55.0	16.76												
57.5	17.53												
60.0	18.29												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-8, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+815, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 931.6 FT. 284.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 50.0 FT. 15.2 M — ELEV. 881.6 FT. 268.7 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86												
25.0	7.62						A						Sand, silty, clayey, brown (Moist)
27.5	8.38												
30.0	9.14												
32.5	9.91	32.0	9.754	32.0	9.75								
35.0	10.67												
37.5	11.43						A						Clay, very silty, sandy, yellowish-brown (Moist)
40.0	12.19			40.0	12.19								

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-9, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+830, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 933.1 FT. 284.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 50.0 FT. 15.2 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 50.0 FT. 15.2 M — ELEV. 883.1 FT. 269.2 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						Clay, sandy, silty, reddish-brown
		1.0	0.30	1.0	0.30	S-1	SS	16	2	2	4	6	Clay, sandy, silty, reddish-brown (Moist)(Medium Stiff)
2.5	0.76			2.5	0.76		A						
		3.5	1.07	3.5	1.07	S-2	SS	14	4	4	5	9	DO #1 (Moist)(Stiff)
5.0	1.52	5.0	1.52	5.0	1.52		A						
		6.0	1.83	6.0	1.83	S-3	SS	12	4	7	10	17	DO1 with tree roots (Very Stiff)
7.5	2.29	7.5	2.29	7.5	2.29		A						
		8.5	2.59	8.5	2.59	S-4	SS	14	4	7	9	16	DO #3
10.0	3.05	10.0	3.05	10.0	3.05	ST-1	ST	19					Pocket Penetrometer 4.5+ TSF
				12.0	3.66								
12.5	3.81	12.0	3.66										
		13.5	4.11	13.5	4.11	S-5	SS	14	9	9	10	19	Sand (F-M), silty, dark brown (moist)(Medium Dense)
15.0	4.57						A						
17.5	5.33												
		18.5	5.64	18.5	5.64	S-6	SS	16	3	4	7	11	Clay, sandy, silty, reddish-brown with sand pockets and roots (Moist)(Stiff)
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-7, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+800, 10.8 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 929.6 FT. 283.3 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 45.0 FT. 13.7 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): FT. M
BOTTOM OF HOLE: DEPTH 45.0 FT. 13.7 M — ELEV. 884.6 FT. 269.6 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10				A						
22.5	6.86												
		23.5	7.16	23.5	7.16	S-7	SS	16	2	3	3	6	DO6, dark brown (wet)(loose)
25.0	7.62	25.0	7.62	25.0	7.62		A						
27.5	8.38												
		28.5	8.69	28.5	8.69	S-8	SS	16	2	3	3	6	DO7, yellowish-brown/ brown
30.0	9.14	30.0	9.14	30.0	9.14		A						
32.5	9.91												
		33.5	10.21	33.5	10.21	S-9	SS	8	5	7	10	17	Silt, sandy, yellowish-brown to Sand (M), silty dark brown (Very Moist)(Stiff to Medium Dense)
35.0	10.67	35.0	10.67	35.0	10.67		A						
37.5	11.43												
		38.5	11.73	38.5	11.73	S-10	SS	16	3	3	7	10	Clay, sandy, silty, light yellowish-brown/ reddish-brown (Moist)(Stiff)(Decomposed Siltstone Sandstone)
40.0	12.19			40.0	12.19								

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-8, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+815, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 931.6 FT. 284.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 50.0 FT. 15.2 M — ELEV. 881.6 FT. 268.7 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
2.5	0.76												
5.0	1.52												
7.5	2.29												
							A						Clay, sandy, silty, reddish-brown (Moist)
10.0	3.05												
12.5	3.81												
15.0	4.57												
17.5	5.33			18.0	5.49								
		18.0	5.49										Sand, silty, clayey, brown (Moist)
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-8, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+815, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 931.6 FT. 284.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 50.0 FT. 15.2 M — ELEV. 881.6 FT. 268.7 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19				A						Same As Above
42.5	12.95												
		42.0	12.8	42.0	12.80								
45.0	13.72												
47.5	14.48						A						Clay, very sandy, silty, dark brown (Moist)
50.0	15.24			50.0	15.24								
52.5	16.00												
55.0	16.76												NO REFUSAL @ 50.0' DRY ON COMPLETION
57.5	17.53												
60.0	18.29												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-9, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+830, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 933.1 FT. 284.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 50.0 FT. 15.2 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 50.0 FT. 15.2 M — ELEV. 883.1 FT. 269.2 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10				A						
22.5	6.86												
		23.5	7.163	23.5	7.16	S-7	SS	18	3	4	6	10	Clay, very silty, sandy, light yellowish-brown/ reddish-brown (Moist)(Stiff)(Decomposed Siltstone/ Sandstone)
25.0	7.62	25.0	7.62	25.0	7.62		A						
27.5	8.38												
		28.5	8.687	28.5	8.69	S-8	SS	16	3	5	6	11	Sand (M-F), silty, dark brown/ black (Moist)(Medium Dense)(Decomposed Siltstone/ Sandstone)
30.0	9.14	30.0	9.144	30.0	9.14		A						
32.5	9.91												
		33.5	10.21	33.5	10.21	S-9	SS	16	3	4	6	10	Clay, very silty, sandy, light yellowish-brown/ black (Moist)(Stiff)(Decomposed Siltstone/ Sandstone)
35.0	10.67	35.0	10.67	35.0	10.67		A						
37.5	11.43												
		38.5	11.73	38.5	11.73	S-10	SS	16	5	4	5	9	Sand (M), silty, slightly clayey, dark brown/ black (wet)(Loose)(Decomposed Sandstone)
40.0	12.19			40.0	12.19								

REMARKS: Continued On Page 3.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\Y68I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167C

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-9, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+830, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 933.1 FT. 284.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 50.0 FT. 15.2 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 50.0 FT. 15.2 M — ELEV. 883.1 FT. 269.2 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19										
		43.5	13.26	43.5	13.26		A						
45.0	13.72	45.0	13.72	45.0	13.72	S-11	SS	16	3	3	6	9	Silt, sandy, slightly clayey, light yellowish-brown/ black (Moist)(Stiff)(Decomposed Siltstone/ Sandstone)
47.5	14.48						A						
		48.5	14.78	48.5	14.78								
50.0	15.24			50.0	15.24	S-12	SS	18	2	4	4	8	DO #11 (Moist)(Medium Stiff)(Decomposed Siltstone/ Sandstone)
52.5	16.00												NO REFUSAL @ 50.0' DRY ON COMPLETION
55.0	16.76												
57.5	17.53												
60.0	18.29												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-10, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+845, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 936.2 FT. 285.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 50.0 FT. 15.2 M — ELEV. 886.2 FT. 270.1 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86												
25.0	7.62						A						Sand, silty, clayey, brown (moist)
27.5	8.38												
30.0	9.14												
32.5	9.91												
35.0	10.67												
37.5	11.43												
40.0	12.19			40.0	12.19								

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-11, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+860, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 937.5 FT. 285.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 50.0 FT. 15.2 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 50.0 FT. 15.2 M — ELEV. 887.5 FT. 270.5 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	1.0	0.30		A						Clay, sandy, silty, reddish-brown with sandstone fragments
		1.0	0.30	2.5	0.76	S-1	SS	16	3	3	4	7	Clay, sandy, reddish-brown (Moist)(Medium Stiff)
2.5	0.76	2.5	0.76	3.5	1.07		A						
		3.5	1.07	5.0	1.52	S-2	SS	16	3	5	6	11	DO #1 (Moist)(Stiff)
5.0	1.52	5.0	1.52	6.0	1.83		A						
		6.0	1.83	7.5	2.29	S-3	SS	18	4	5	10	15	DO1 silty,w sandstone fragments
7.5	2.29	7.5	2.29	8.5	2.59		A						
		8.5	2.59	10.0	3.05	S-4	SS	16	4	7	10	17	DO1 (Very Stiff)
10.0	3.05	10.0	3.05	12.0	3.66	ST-1	ST	24					Pocket Penetrometer 4.0 TSF
12.5	3.81	12.0	3.66	13.5	4.11	S-5	SS	18	5	7	8	15	Sand (M-F), clayey, silty, reddish-brown (Moist)(Medium Dense)
		13.5	4.11										
15.0	4.57						A						
17.5	5.33												
		18.5	5.64	18.5	5.64								
20.0	6.10			20.0	6.10	S-6	SS	16	4	4	5	9	DO5 with sandstone fragments (Moist)(Loose) (Decomposed Sandstone)

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-11, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+860, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 937.5 FT. 285.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 50.0 FT. 15.2 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 50.0 FT. 15.2 M — ELEV. 887.5 FT. 270.5 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19				A						
		43.5	13.26	43.5	13.26								
45.0	13.72	45.0	13.72	45.0	13.72	S-11	SS	18	4	4	7	11	DO7, med dense
47.5	14.48						A						
		48.5	14.78	48.5	14.78								
50.0	15.24			50.0	15.24	S-12	SS	16	3	4	7	11	DO11
52.5	16.00												NO REFUSAL @ 50.0' DRY ON COMPLETION
55.0	16.76												
57.5	17.53												
60.0	18.29												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-10, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+845, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 936.2 FT. 285.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 50.0 FT. 15.2 M — ELEV. 886.2 FT. 270.1 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
2.5	0.76												
5.0	1.52												
7.5	2.29						A						Clay, sandy, silty, reddish-brown (Moist)
10.0	3.05												
12.5	3.81												
15.0	4.57												
17.5	5.33			18.0	5.49								
		18.0	5.49										Sand, silty, clayey, brown (moist)
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-10, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+845, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 936.2 FT. 285.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 50.0 FT. 15.2 M — ELEV. 886.2 FT. 270.1 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19										
42.5	12.95												
45.0	13.72						A						Sand, silty, clayey, brown (moist)
47.5	14.48												
50.0	15.24			50.0	15.24								
52.5	16.00												NO REFUSAL AT 50' DRY ON COMPLETION
55.0	16.76												
57.5	17.53												
60.0	18.29												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-11, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+860, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 22, 2015 — SURFACE ELEV.: 937.5 FT. 285.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 50.0 FT. 15.2 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 50.0 FT. 15.2 M — ELEV. 887.5 FT. 270.5 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86						A						
		23.5	7.163	23.5	7.16								
25.0	7.62	25.0	7.62	25.0	7.62	S-7	SS	14	3	3	5	8	Sand (M-F), silty, dark brown (Moist)(Loose)(Decomposed Sandstone)
27.5	8.38						A						
		28.5	8.687	28.5	8.69								
30.0	9.14	30.0	9.144	30.0	9.14	S-8	SS	16	2	3	7	10	DO7
32.5	9.91						A						
		33.5	10.21	33.5	10.21								
35.0	10.67	35.0	10.67	35.0	10.67	S-9	SS	16	4	5	5	10	DO7
37.5	11.43						A						
		38.5	11.73	38.5	11.73								
40.0	12.19			40.0	12.19	S-10	SS	18	3	5	5	10	DO7

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-12, SHEET 1 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+875, 11.0 m Left — DRY ON COMPLETION ?: NO
DATE: July 16, 2015 — SURFACE ELEV.: 936.5 FT. 285.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. M
BOTTOM OF HOLE DEPTH: 83.0 FT. 25.3 M — ELEV. 853.5 FT. 260.1 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH 65.0 FT. 19.8 M, ELEV. 871.5 FT. 265.6 M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
2.5	0.76												
5.0	1.52												
7.5	2.29						A						Clay, sandy, silty, reddish-brown with sandstone fragments (Moist)
10.0	3.05												
12.5	3.81												
15.0	4.57			15.0	4.57								
17.5	5.33						A						Sand, silty, clayey, reddish-brown (Moist) Auger penetration approximately 30 seconds per 5 feet
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\7681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23.RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167D

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-12, SHEET 2 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+875, 11.0 m Left — DRY ON COMPLETION ?: NO
DATE: July 16, 2015 — SURFACE ELEV.: 936.5 FT. 285.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 83.0 FT. 25.3 M — ELEV. 853.5 FT. 260.1 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH 65.0 FT. 19.8 M, ELEV. 871.5 FT. 265.6 M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										Sand, silty, clayey, reddish-brown (Moist)
22.5	6.86												
25.0	7.62												
27.5	8.38												
30.0	9.14						A						
32.5	9.91												
35.0	10.67												
37.5	11.43												
40.0	12.19			40.0	12.19								

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-12, SHEET 4 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+875, 11.0 m Left — DRY ON COMPLETION ?: NO
DATE: July 16, 2015 — SURFACE ELEV.: 936.5 FT. 285.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 83.0 FT. 25.3 M — ELEV. 853.5 FT. 260.1 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH 65.0 FT. 19.8 M, ELEV. 871.5 FT. 265.6 M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		60.0	18.29										Sand, slightly silty, reddish-brown with sandstone fragments (moist)
62.5	19.05												
65.0	19.81												
67.5	20.57						A						
70.0	21.33												
72.5	22.10												
75.0	22.86	75.0	22.86	75.0	22.86								
77.5	23.62						A						Weathered rock, irregular hardness
80.0	24.38			80.0	24.38								

REMARKS: Continued On Page 5.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-13, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+890, 9.4 m Left — DRY ON COMPLETION ?: YES
DATE: 7/17/2015 to 7/21/2015 — SURFACE ELEV.: 929.5 FT. 283.3 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 50.0 FT. 15.2 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 50.0 FT. 15.2 M — ELEV. 879.5 FT. 268.1 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	1.0	0.30		A						Clay, sandy, silty, reddish-brown with asphalt (Fill)
		1.0	0.30			S-1	SS	18	2	3	4	7	Clay, sandy, silty, reddish-brown with sandstone fragments (Moist)(Medium Stiff)
2.5	0.76	2.5	0.76	2.5	0.76		A						
		3.5	1.07	3.5	1.07								
5.0	1.52	5.0	1.52	5.0	1.52	S-2	SS	2	3	5	5	10	DO1, stiff
		6.0	1.83	6.0	1.83		A						
7.5	2.29	7.5	2.29	7.5	2.29	S-3	SS	14	4	5	7	12	DO2
		8.5	2.59	8.5	2.59		A						
10.0	3.05	10.0	3.05	10.0	3.05	S-4	SS	14	3	5	9	14	DO2 mottled yellowish-brown
							A						
12.5	3.81												
		13.5	4.11	13.5	4.11								
15.0	4.57	15.0	4.57	15.0	4.57	S-5	SS	12	3	4	4	8	Sand (M), silty, slightly clayey, brown mottled yellowish-brown/ reddish-brown (moist)(Loose)
							A						
17.5	5.33												
		18.5	5.64	18.5	5.64								
20.0	6.10			20.0	6.10	S-6	SS	18	4	6	9	15	DO5, med dense

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-14, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STATION 5+905, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 13, 2015 — SURFACE ELEV.: 928.7 FT. 283.1 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 50.0 FT. 15.2 M — ELEV. 878.7 FT. 267.8 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										Sand, silty, clayey, reddish-brown (Moist)
22.5	6.86												
25.0	7.62												
27.5	8.38												
30.0	9.14						A						
32.5	9.91												
35.0	10.67												
37.5	11.43												
40.0	12.19			40.0	12.19								

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-12, SHEET 3 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+875, 11.0 m Left — DRY ON COMPLETION ?: NO
DATE: July 16, 2015 — SURFACE ELEV.: 936.5 FT. 285.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 83.0 FT. 25.3 M — ELEV. 853.5 FT. 260.1 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH 65.0 FT. 19.8 M, ELEV. 871.5 FT. 265.6 M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19										
42.5	12.95												
45.0	13.72												
47.5	14.48												
50.0	15.24						A						Sand, slightly silty, reddish-brown with sandstone fragments (moist) Auger penetration approximately 30 seconds per 5 feet
52.5	16.00												
55.0	16.76												
57.5	17.53												
60.0	18.29			60.0	18.29								

REMARKS: Continued On Page 4.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-12, SHEET 5 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+875, 11.0 m Left — DRY ON COMPLETION ?: NO
DATE: July 16, 2015 — SURFACE ELEV.: 936.5 FT. 285.4 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 83.0 FT. 25.3 M — ELEV. 853.5 FT. 260.1 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH 65.0 FT. 19.8 M, ELEV. 871.5 FT. 265.6 M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		80.0	24.38										
							A						Weathered rock, irregular hardness
82.5	25.15												
				83.0	25.30								
													BORING TERMINATED @ 83' WATER AT 65' ON COMPLETION
85.0	25.91												
87.5	26.67												
90.0	27.43												
92.5	28.19												
95.0	28.96												
97.5	29.72												
100.0	30.48												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-14, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STATION 5+905, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 13, 2015 — SURFACE ELEV.: 928.7 FT. 283.1 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 50.0 FT. 15.2 M — ELEV. 878.7 FT. 267.8 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
2.5	0.76												
5.0	1.52												
7.5	2.29						A						Clay, sandy, silty, reddish-brown with sandstone fragments (Moist)
10.0	3.05												
12.5	3.81												
15.0	4.57	15.0	4.57	15.0	4.57								
17.5	5.33						A						Sand, silty, clayey, reddish-brown (Moist) 5 foot intervals each 30 seconds to 50 feet
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-14, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STATION 5+905, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 13, 2015 — SURFACE ELEV.: 928.7 FT. 283.1 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 50.0 FT. 15.2 M — ELEV. 878.7 FT. 267.8 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19										Sand, silty, clayey, reddish-brown (Moist)
42.5	12.95												
45.0	13.72						A						
47.5	14.48												
50.0	15.24			50.0	15.24								
													BORING TERMINATED @ 50' DRY ON COMPLETION
52.5	16.00												
55.0	16.76												
57.5	17.53												
60.0	18.29												

REMARKS:

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

R:_Infrastructure Project Files\2015 Infra Projects\Y681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT
9/9/2015

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167E

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-15, SHEET 1 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+920, 8.1 m Left — DRY ON COMPLETION ?: NO
DATE: July 16, 2015 — SURFACE ELEV.: 919.0 FT. 280.1 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 80.0 FT. 24.4 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 80.0 FT. 24.4 M — ELEV. 839.0 FT. 255.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH 70.0 FT. 21.3 M, ELEV. 849.0 FT. 258.8 M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	1.0	0.30		A						Clay, sandy, silty, reddish-brown with asphalt (Fill)
2.5	0.76	1.0	0.30	2.5	0.76	S-1	SS	16	2	2	3	5	Clay, sandy, silty, reddish-brown (Moist)(Medium Stiff)
5.0	1.52	2.5	0.76	3.5	1.07	S-2	SS	16	2	3	3	6	DO1
7.5	2.29	3.5	1.07	5.0	1.52	S-3	SS	16	3	4	4	8	DO1
10.0	3.05	5.0	1.52	6.0	1.83	S-4	SS	18	3	4	6	10	Sand (M), silty, clayey, reddish-brown (Moist)(Loose)
12.5	3.81	6.0	1.83	7.5	2.29								
15.0	4.57	7.5	2.29	8.5	2.59	S-5	SS	18	4	6	7	13	DO4 (Medium Dense)
17.5	5.33	8.5	2.59	10.0	3.05								
20.0	6.10	10.0	3.05	13.5	4.11								
		13.5	4.11	15.0	4.57								
		15.0	4.57	18.5	5.64								
		18.5	5.64	20.0	6.10	S-6	SS	16	6	5	6	11	Sand (M), silty, slightly clayey, reddish-brown with sandstone fragments (Moist)(Medium Dense) (Decomposed Sandstone)

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-15, SHEET 3 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+920, 8.1 m Left — DRY ON COMPLETION ?: NO
DATE: July 16, 2015 — SURFACE ELEV.: 919.0 FT. 280.1 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 80.0 FT. 24.4 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 80.0 FT. 24.4 M — ELEV. 839.0 FT. 255.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH 70.0 FT. 21.3 M, ELEV. 849.0 FT. 258.8 M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19	43.5	13.26		A						
45.0	13.72	43.5	13.26	45.0	13.72	S-11	SS	16	4	5	4	9	DO10 (moist)(Loose) (Decomposed Sandstone)
47.5	14.48	45.0	13.72	48.5	14.78		A						
50.0	15.24	48.5	14.78	50.0	15.24	S-12	SS	16	6	6	7	13	Sand (M), silty, reddish-brown with sandstone fragments (moist)(Medium Dense) (Decomposed Sandstone)
52.5	16.00	50.0	15.24										
55.0	16.76						A						Sand (M), silty, reddish-brown with sandstone fragments (moist) Auger penetration to 80' averages 30 seconds per 5 feet
57.5	17.53												
60.0	18.29			60.0	18.29								

REMARKS: Continued On Page 4.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-16, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STATION 5+935, 10.5 m Left — DRY ON COMPLETION ?: YES
DATE: July 13, 2015 — SURFACE ELEV.: 922.0 FT. 281.0 M
REFUSAL: DEPTH NA FT. NA M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. NA M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. NA M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 45.0 FT. 13.7 M — ELEV. 877.0 FT. 267.3 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										Boring located on cut bench
2.5	0.76												
5.0	1.52												
7.5	2.29												
10.0	3.05						A						Clay, sandy, silty, reddish-brown with sandstone fragments (Moist)
12.5	3.81												
15.0	4.57												
17.5	5.33												
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-16, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STATION 5+935, 10.5 m Left — DRY ON COMPLETION ?: YES
DATE: July 13, 2015 — SURFACE ELEV.: 922.0 FT. 281.0 M
REFUSAL: DEPTH NA FT. NA M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. NA M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. NA M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 45.0 FT. 13.7 M — ELEV. 877.0 FT. 267.3 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19				A						Sand, silty, clayey, reddish-brown (very loose to loose)
45.0	13.72			45.0	13.72								
47.5	14.48												BORING TERMINATED @ 45' DRY ON COMPLETION
50.0	15.24												
52.5	16.00												
55.0	16.76												
57.5	17.53												
60.0	18.29												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-15, SHEET 2 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+920, 8.1 m Left — DRY ON COMPLETION ?: NO
DATE: July 16, 2015 — SURFACE ELEV.: 919.0 FT. 280.1 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 80.0 FT. 24.4 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 80.0 FT. 24.4 M — ELEV. 839.0 FT. 255.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH 70.0 FT. 21.3 M, ELEV. 849.0 FT. 258.8 M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86						A						
25.0	7.62	23.5	7.163	23.5	7.16	S-7	SS	16	4	4	4	8	DO6 (Moist)(Loose) (Decomposed Sandstone)
27.5	8.38	25.0	7.62	25.0	7.62								
30.0	9.14						A						
32.5	9.91	28.5	8.687	28.5	8.69	S-8	SS	16	5	5	4	9	DO6 (Moist)(Loose) (Decomposed Sandstone)
35.0	10.67	30.0	9.144	30.0	9.14								
37.5	11.43						A						
40.0	12.19	33.5	10.21	33.5	10.21	S-9	SS	16	5	7	6	13	Sand (M), slightly silty, reddish-brown (moist)(Medium Dense)(Decomposed Sandstone)
		35.0	10.67	35.0	10.67								
							A						
		38.5	11.73	38.5	11.73								
				40.0	12.19	S-10	SS	16	6	7	6	13	Sand (M), slightly silty, reddish-brown with sandstone fragments (moist)(Medium Dense) (Decomposed Sandstone)

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-15, SHEET 4 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+920, 8.1 m Left — DRY ON COMPLETION ?: NO
DATE: July 16, 2015 — SURFACE ELEV.: 919.0 FT. 280.1 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 80.0 FT. 24.4 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 80.0 FT. 24.4 M — ELEV. 839.0 FT. 255.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH 70.0 FT. 21.3 M, ELEV. 849.0 FT. 258.8 M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		60.0	18.29										Sand (M), silty, reddish-brown with sandstone fragments (moist)
62.5	19.05						A						
65.0	19.81												
67.5	20.57												
70.0	21.33						A						
72.5	22.10												
75.0	22.86												
77.5	23.62												
80.0	24.38			80.0	24.38								BORING TERMINATED @ 80.0' WATER @ 70' ON COMPLETION

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-16, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STATION 5+935, 10.5 m Left — DRY ON COMPLETION ?: YES
DATE: July 13, 2015 — SURFACE ELEV.: 922.0 FT. 281.0 M
REFUSAL: DEPTH NA FT. NA M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. NA M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. NA M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 45.0 FT. 13.7 M — ELEV. 877.0 FT. 267.3 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86												Clay, sandy, silty, reddish-brown with sandstone fragments (Moist)
25.0	7.62	23.0	7.01	23.0	7.01								
27.5	8.38												
30.0	9.14												
32.5	9.91						A						Sand, silty, clayey, reddish-brown (very loose to loose) each 5 foot interval took approximately 30 seconds to boring termination at 45 feet. (Moist)
35.0	10.67												
37.5	11.43												
40.0	12.19			40.0	12.19								

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-17, SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+950, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 27, 2015 — SURFACE ELEV.: 924.5 FT. 281.8 M
REFUSAL: DEPTH 36.6 FT. 11.2 M — ELEV. 887.9 FT. 270.6 M
SAMPLED: 36.6 FT. 11.2 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 36.6 FT. 11.2 M — ELEV. 887.9 FT. 270.6 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	1.0	0.30		A						Clay, sandy, silty, reddish-brown
2.5	0.76	1.0	0.30	2.5	0.76	S-1	SS	8	1	2	2	4	Clay, sandy, silty, reddish-brown (moist)(Soft)
5.0	1.52	2.5	0.76	3.5	1.07	S-2	SS	8	3	5	7	12	DO1, stiff
7.5	2.29	3.5	1.07	5.0	1.52	S-3	SS	14	4	6	8	14	DO2
10.0	3.05	5.0	1.52	6.0	1.83	S-4	SS	14	4	7	8	15	DO2
12.5	3.81	6.0	1.83	7.5	2.29								
15.0	4.57	7.5	2.29	8.5	2.59	S-5	SS	16	4	5	6	11	Sand (F-M), silty, brown (moist)(Medium Dense)
17.5	5.33	8.5	2.59	10.0	3.05								
20.0	6.10	10.0	3.05	13.5	4.11								
		13.5	4.11	15.0	4.57								
		15.0	4.57	18.5	5.64								
		18.5	5.64	20.0	6.10	S-6	SS	16	3	4	4	8	DO5, Loose

REMARKS: Continued On Page 2.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS RETAINING WALLS NO. 7 AND 8

SCALE: AS NOTED

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

R:_Infrastructure Project Files\2015 Infra Projects\Y681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT 9/9/2015

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167F

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-17, SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+950, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 27, 2015 — SURFACE ELEV.: 924.5 FT. 281.8 M
REFUSAL: DEPTH 36.6 FT. 11.2 M — ELEV. 887.9 FT. 270.6 M
SAMPLED: 36.6 FT. 11.2 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 36.6 FT. 11.2 M — ELEV. 887.9 FT. 270.6 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86						A						
		23.5	7.163	23.5	7.16								
25.0	7.62	25.0	7.62	25.0	7.62	S-7	SS	16	4	4	5	9	Sand (F-M), slightly silty, brown (moist)(Loose)
							A						
27.5	8.38												
		28.5	8.687	28.5	8.69								
30.0	9.14	30.0	9.144	30.0	9.14	S-8	SS	16	5	6	8	14	Sand (F-M), slightly silty, brown to light yellowish-brown (moist)(Medium Dense) (Decomposed Sandstone)
32.5	9.91												Weathered Rock @ 33.5'
		33.5	10.21	33.5	10.21								
35.0	10.67	35.0	10.67	35.0	10.67	S-9	SS	14	6	10	9	19	Sand (F-M), brown with sandstone fragments (moist)(Medium Dense)(Decomposed Sandstone)
				36.6	11.16		A						
37.5	11.43												AUGER REFUSAL @ 36.6' DRY ON COMPLETION AUGER LEAD OFF
40.0	12.19												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-18, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+965, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 27, 2015 — SURFACE ELEV.: 933.4 FT. 284.5 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 60.0 FT. 18.3 M — ELEV. 873.4 FT. 266.2 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										Sand, silty, clayey, reddish-brown (Moist)
22.5	6.86												
25.0	7.62												
27.5	8.38												
30.0	9.14						A						
32.5	9.91												
35.0	10.67												
37.5	11.43	38.0	11.58	38.0	11.58		A						Sand, silty, brown
				40.0	12.19								
40.0	12.19												

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-19, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+980, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 28, 2015 — SURFACE ELEV.: 945.0 FT. 288.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 55.0 FT. 16.8 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 55.0 FT. 16.8 M — ELEV. 890.0 FT. 271.3 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
		1.0	0.30	1.0	0.30								
2.5	0.76			2.5	0.76	S-1	SS	14	3	3	4	7	Clay, sandy, silty, reddish-brown (Moist)(Medium Stiff)
		2.5	0.76				A						
				3.5	1.07								
		3.5	1.07										
5.0	1.52	5.0	1.52	5.0	1.52	S-2	SS	16	4	7	7	14	Clay, very sandy, silty, reddish-brown (Moist)(Stiff)
				5.0	1.52		A						
		6.0	1.83										
7.5	2.29			7.5	2.29	S-3	SS	12	4	4	5	9	Sand (F-M), silty, slightly clayey, reddish-brown (Moist)(Loose)
		7.5	2.29				A						
		8.5	2.59	8.5	2.59								
10.0	3.05			10.0	3.05	S-4	SS	16	3	5	5	10	Sand (F-M), silty, dark brown (moist)(Loose)
							A						
12.5	3.81												
		13.5	4.11	13.5	4.11								
15.0	4.57	15.0	4.57	15.0	4.57	S-5	SS	16	2	3	3	6	Sand (M-F), silty, dark brown with sandstone fragments (moist)(Loose)(Decomposed Sandstone)
							A						
17.5	5.33												
		18.5	5.64	18.5	5.64								
20.0	6.10			20.0	6.10	S-6	SS	16	3	4	4	8	DO5

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-19, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+980, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 28, 2015 — SURFACE ELEV.: 945.0 FT. 288.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 55.0 FT. 16.8 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 55.0 FT. 16.8 M — ELEV. 890.0 FT. 271.3 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19				A						
42.5	12.95												
		43.5	13.26	43.5	13.26								
45.0	13.72	45.0	13.72	45.0	13.72	S-11	SS	16	2	3	3	6	DO5
							A						
47.5	14.48												
		48.5	14.78	48.5	14.78								
50.0	15.24	50.0	15.24	50.0	15.24	S-12	SS	16	6	10	10	20	DO5, med dense
							A						
52.5	16.00												
		53.5	16.31	53.5	16.31								
55.0	16.76			55.0	16.76	S-13	SS	18	6	9	8	17	DO12
57.5	17.53												NO REFUSAL @ 55.0' DRY ON COMPLETION
60.0	18.29												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-18, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+965, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 27, 2015 — SURFACE ELEV.: 933.4 FT. 284.5 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 60.0 FT. 18.3 M — ELEV. 873.4 FT. 266.2 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										Side Hill Cut
2.5	0.76						A						
5.0	1.52												
7.5	2.29												Clay, sandy, silty, reddish-brown (Moist)
10.0	3.05												
12.5	3.81	13.0	3.96	13.0	3.96								
15.0	4.57						A						Sand, silty, clayey, reddish-brown (Moist)
17.5	5.33												
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-18, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+965, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 27, 2015 — SURFACE ELEV.: 933.4 FT. 284.5 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 60.0 FT. 18.3 M — ELEV. 873.4 FT. 266.2 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19										Sand, silty, brown
42.5	12.95												
45.0	13.72												
47.5	14.48												
50.0	15.24						A						
52.5	16.00												
55.0	16.76												
57.5	17.53												NO REFUSAL @ 60.0' DRY ON COMPLETION
60.0	18.29			60.0	18.29								

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-19, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+980, 11.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 28, 2015 — SURFACE ELEV.: 945.0 FT. 288.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 55.0 FT. 16.8 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 55.0 FT. 16.8 M — ELEV. 890.0 FT. 271.3 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10				A						
22.5	6.86												
		23.5	7.163	23.5	7.16								
25.0	7.62	25.0	7.62	25.0	7.62	S-7	SS	16	3	4	3	7	DO5
							A						
27.5	8.38												
		28.5	8.687	28.5	8.69								
30.0	9.14	30.0	9.144	30.0	9.14	S-8	SS	16	4	6	6	12	DO5, med dense
							A						
32.5	9.91												
		33.5	10.21	33.5	10.21								
35.0	10.67	35.0	10.67	35.0	10.67	S-9	SS	16	4	4	4	8	DO5
							A						
37.5	11.43												
		38.5	11.73	38.5	11.73								
40.0	12.19			40.0	12.19	S-10	SS	16	2	2	2	4	DO5 numerous sandstone fragments (Very Loose)

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-20, SHEET 1 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+995, 10.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 27, 2015 — SURFACE ELEV.: 954.1 FT. 290.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 85.0 FT. 25.9 M — ELEV. 869.1 FT. 264.9 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
2.5	0.76						A						Clay, sandy, silty, reddish-brown (Moist)
5.0	1.52												
7.5	2.29			8.0	2.44								
		8.0	2.44										
10.0	3.05												
12.5	3.81						A						Sand, silty, clayey, brown (Moist)
15.0	4.57												
17.5	5.33			18.0	5.49								
		18.0	5.49										
20.0	6.10			20.0	6.10		A						Sand, silty, brown (Moist)

REMARKS: Continued On Page 2.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015 R:_Infrastructure Project Files\2015 Infra Projects\7681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23.RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167G

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-20, SHEET 2 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+995, 10.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 27, 2015 — SURFACE ELEV.: 954.1 FT. 290.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 85.0 FT. 25.9 M — ELEV. 869.1 FT. 264.9 M
BORING ADVANCED BY: — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										Sand, silty, brown (Moist)
22.5	6.86	23.0	7.01	23.0	7.01		A						
25.0	7.62												
27.5	8.38												
30.0	9.14						A						Sand, slightly silty, brown (Moist)(Loose)
32.5	9.91												
35.0	10.67												
37.5	11.43												
40.0	12.19			40.0	12.19								

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-20, SHEET 4 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+995, 10.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 27, 2015 — SURFACE ELEV.: 954.1 FT. 290.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 85.0 FT. 25.9 M — ELEV. 869.1 FT. 264.9 M
BORING ADVANCED BY: — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		60.0	18.29										Sand, slightly silty, brown (Moist)(Loose)
62.5	19.05												
65.0	19.81												
67.5	20.57												
70.0	21.33						A						
72.5	22.10												
75.0	22.86												
77.5	23.62												
80.0	24.38			80.0	24.38								

REMARKS: Continued On Page 5.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-21, SHEET 1 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. MASON
BORING NO. / LOCATION: STA 6+010, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 29, 2015 — SURFACE ELEV.: 958.1 FT. 292.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 90.0 FT. 27.4 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 90.0 FT. 27.4 M — ELEV. 868.1 FT. 264.6 M
BORING ADVANCED BY: — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	1.0	0.30		A						
		1.0	0.30			S-1	SS	14	3	3	4	7	Clay, sandy, reddish-brown (Moist)(Medium Stiff)
2.5	0.76	2.5	0.76	2.5	0.76		A						
		3.5	1.07	3.5	1.07	S-2	SS	14	2	3	5	8	DO1
5.0	1.52	5.0	1.52	5.0	1.52		A						
		6.0	1.83	6.0	1.83	S-3	SS	18	2	6	8	14	DO1 (stiff)
7.5	2.29	7.5	2.29	7.5	2.29		A						
		8.5	2.59	8.5	2.59	S-4	SS	16	3	5	6	11	DO3
10.0	3.05	10.0	3.05	10.0	3.05								
12.5	3.81						A						
		13.5	4.11	13.5	4.11								
15.0	4.57	15.0	4.57	15.0	4.57	S-5	SS	14	2	4	5	9	Sand (F-M), silty, reddish-brown (Moist)(Loose)
17.5	5.33						A						
		18.5	5.64	18.5	5.64								
20.0	6.10			20.0	6.10	S-6	SS	18	2	4	3	7	DO5

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-21, SHEET 3 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. MASON
BORING NO. / LOCATION: STA 6+010, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 29, 2015 — SURFACE ELEV.: 958.1 FT. 292.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 90.0 FT. 27.4 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 90.0 FT. 27.4 M — ELEV. 868.1 FT. 264.6 M
BORING ADVANCED BY: — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19				A						
42.5	12.95												
		43.5	13.26	43.5	13.26								
45.0	13.72	45.0	13.72	45.0	13.72	S-11	SS	18	4	4	6	10	DO8
47.5	14.48						A						
		48.5	14.78	48.5	14.78								
50.0	15.24	50.0	15.24	50.0	15.24	S-12	SS	18	4	3	4	7	DO8 (Loose)
52.5	16.00						A						
		53.5	16.31	53.5	16.31								
55.0	16.76	55.0	16.76	55.0	16.76	S-13	SS	18	2	2	3	5	DO12
57.5	17.53						A						
		58.5	17.83	58.5	17.83								
60.0	18.29			60.0	18.29	S-14	SS	18	3	2	3	5	DO12

REMARKS: Continued On Page 4.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-20, SHEET 3 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+995, 10.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 27, 2015 — SURFACE ELEV.: 954.1 FT. 290.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 85.0 FT. 25.9 M — ELEV. 869.1 FT. 264.9 M
BORING ADVANCED BY: — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19										Sand, slightly silty, brown (Moist)(Loose)
42.5	12.95												
45.0	13.72												
47.5	14.48						A						
50.0	15.24												
52.5	16.00												
55.0	16.76												
57.5	17.53			58.0	17.68								
		58.0	17.68										
60.0	18.29			60.0	18.29		A						

REMARKS: Continued On Page 4.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-20, SHEET 5 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+995, 10.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 27, 2015 — SURFACE ELEV.: 954.1 FT. 290.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 85.0 FT. 25.9 M — ELEV. 869.1 FT. 264.9 M
BORING ADVANCED BY: — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		80.0	24.38										Sand, slightly silty, brown (Moist)(Loose)
82.5	25.15						A						
				85.0	25.91								
85.0	25.91												BORING TERMINATED @ 85' DRY ON COMPLETION
87.5	26.67												
90.0	27.43												
92.5	28.19												
95.0	28.96												
97.5	29.72												
100.0	30.48												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-21, SHEET 2 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. MASON
BORING NO. / LOCATION: STA 6+010, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 29, 2015 — SURFACE ELEV.: 958.1 FT. 292.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 90.0 FT. 27.4 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 90.0 FT. 27.4 M — ELEV. 868.1 FT. 264.6 M
BORING ADVANCED BY: — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10				A						
22.5	6.86			23.5	7.16								
		23.5	7.163			S-7	SS	18	3	3	3	6	DO5
25.0	7.62	25.0	7.62	25.0	7.62								
27.5	8.38						A						
		28.5	8.687	28.5	8.69								
30.0	9.14	30.0	9.144	30.0	9.14	S-8	SS	18	5	5	6	11	Sand (F-M), silty, brown (Moist)(Medium Dense) (Decomposed Sandstone/ Siltstone)
32.5	9.91						A						
		33.5	10.21	33.5	10.21								
35.0	10.67	35.0	10.67	35.0	10.67	S-9	SS	18	5	6	5	11	DO8
37.5	11.43						A						
		38.5	11.73	38.5	11.73								
40.0	12.19			40.0	12.19	S-10	SS	18	6	6	6	12	DO8

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-21, SHEET 4 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. MASON
BORING NO. / LOCATION: STA 6+010, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 29, 2015 — SURFACE ELEV.: 958.1 FT. 292.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 90.0 FT. 27.4 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 90.0 FT. 27.4 M — ELEV. 868.1 FT. 264.6 M
BORING ADVANCED BY: — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		60.0	18.29				A						
62.5	19.05			63.5	19.35								
		63.5				S-15	SS	18	3	3	3	6	DO12
65.0	19.81	65.0	19.81	65.0	19.81								
67.5	20.57						A						
		68.5	20.88	68.5	20.88								
70.0	21.33	70.0	21.34	70.0	21.34	S-16	SS	18	2	3	3	6	DO12
72.5	22.10						A						
		73.5	22.4	73.5	22.40								
75.0	22.86	75.0	22.86	75.0	22.86	S-17	SS	18	5	4	4	8	DO12
77.5	23.62						A						
		78.5	23.93	78.5	23.93								
80.0	24.38			80.0	24.38	S-18	SS	18	5	5	4	9	DO12

REMARKS: Continued On Page 5.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS RETAINING WALLS NO. 7 AND 8

SCALE: AS NOTED

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

R:_Infrastructure Project Files\2015 Infra Projects\Y681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT 9/9/2015

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167H

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-21, SHEET 5 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. MASON
BORING NO. / LOCATION: STA 6+010, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 29, 2015 — SURFACE ELEV.: 958.1 FT. 292.0 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 90.0 FT. 27.4 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 90.0 FT. 27.4 M — ELEV. 868.1 FT. 264.6 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
82.5	25.15	80.0	24.38										
		83.5	25.45										
85.0	25.91	85.0	25.91			S-19	SS	18	5	5	5	10	DO12, grayish-brown
87.5	26.67												
		88.5	26.97										
90.0	27.43					S-20	SS	17	4	3	5	8	DO19
92.5	28.19												NO REFUSAL @ 90.0' DRY ON COMPLETION
95.0	28.96												
97.5	29.72												
100.0	30.48												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-22, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+025, 17.4 m Left — DRY ON COMPLETION ?: YES
DATE: July 14, 2015 — SURFACE ELEV.: 959.1 FT. 292.3 M
REFUSAL: DEPTH 49.0 FT. 14.9 M — ELEV. 910.1 FT. 277.4 M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 49.0 FT. 14.9 M — ELEV. 910.1 FT. 277.4 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										Clay, sandy, silty, reddish-brown (Moist)
				22.0	6.71								
22.5	6.86	22.0	6.706										
25.0	7.62												Sand, silty, clayey, brown/ reddish-brown (moist)(Variably loose/ 30 seconds per 5 feet)
27.5	8.38												
30.0	9.14						A						
32.5	9.91												
35.0	10.67												
37.5	11.43												
40.0	12.19			40.0	12.19								

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-23, SHEET 1 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. Mason
BORING NO. / LOCATION: STA 6+040, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 30, 2015 — SURFACE ELEV.: 962.1 FT. 293.2 M
REFUSAL: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
SAMPLED: 102.0 FT. 31.1 M
TOP OF ROCK: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
BEGAN CORING: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
FOOTAGE CORED (LF): 31.1 FT. 9.5 M
BOTTOM OF HOLE DEPTH: 102.0 FT. 31.1 M — ELEV. 860.1 FT. 262.2 M
BORING ADVANCED BY: CORING — POWER AUGERING X — WASHBORING X

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH 42.5 FT. 13.0 M; ELEV. 919.6 FT. 280.3 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
				1.0	0.30								
		1.0	0.30			S-1	SS	13	1	2	2	4	Clay, sandy, silty, reddish-brown (wet)(Soft)
				2.5	0.76								
2.5	0.76	2.5	0.76				A						
				3.5	1.07								
		3.5	1.07										
				5.0	1.52	S-2	SS	13	3	2	3	5	DO1 (Moist)(Medium Stiff)
5.0	1.52	5.0	1.52										
				6.0	1.83		A						
		6.0	1.83										
				7.5	2.29	S-3	SS	14	3	4	4	8	DO2
7.5	2.29	7.5	2.29										
				8.5	2.59		A						
		8.5	2.59										
				10.0	3.05	S-4	SS	14	3	4	6	10	DO2 (Stiff)
10.0	3.05	10.0	3.05										
							A						
12.5	3.81												
				13.5	4.11								
		13.5	4.11										
				15.0	4.57	S-5	SS	15	2	5	5	10	DO4
15.0	4.57	15.0	4.57										
							A						
17.5	5.33												
				18.5	5.64								
		18.5	5.64										
				20.0	6.10	S-6	SS	16	3	4	6	10	Sand (F-M), silty, dark brown (Moist)(Loose)
20.0	6.10												

REMARKS: Continued On Page 2. Set Casing advancer to 74' after no core recovery. Washbore and SS sampled to 102.0'.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-23, SHEET 3 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. Mason
BORING NO. / LOCATION: STA 6+040, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 30, 2015 — SURFACE ELEV.: 962.1 FT. 293.2 M
REFUSAL: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
SAMPLED: 102.0 FT. 31.1 M
TOP OF ROCK: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
BEGAN CORING: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
FOOTAGE CORED (LF): 31.1 FT. 9.5 M
BOTTOM OF HOLE DEPTH: 102.0 FT. 31.1 M — ELEV. 860.1 FT. 262.2 M
BORING ADVANCED BY: CORING — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH 42.5 FT. 13.0 M; ELEV. 919.6 FT. 280.3 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19										DO9
42.5	12.95	42.5	12.95	42.5	12.95	S-11	SS	0	50			50	AUGER REFUSAL @ 42.5'
		42.5	12.95			RUN 1, RAN 1.0, REC 0.8, RQD 0%							BEGIN NQ CORING @ 42.5', 100% DWL Sandstone, calcarious, dark gray to weathered reddish-brown, DIPS 60° TO 40°
				43.5	13.26								
		43.5	13.26			RUN 2 RAN 2.2 REC 1.1 RQD 0%							variably stained, leached, weathered. Loss 1.1
45.0	13.72			45.5	13.87								
		45.5	13.87			RUN 3 RAN 2.8 REC 0.7 RQD 0%							DIPS 40° TO 55°
47.5	14.48												DO R2 open cavity 46.4 to 48.3 Loss 2.1
				48.3	14.72								
		48.3	14.72			RUN 4 RAN 5.1 REC 0.6 RQD 1%							Continue open cavity 48.3 to 50.3 No Recovery 50.3 to 52.7
50.0	15.24												
52.5	16.00												Sandstone, calcarious, dark gray, weathered DIPS 30° TO 85°
				53.4	16.28								
		53.4	16.28			RUN 5 RAN 5.0 REC 0.0 RQD 0%							NO RECOVERY
55.0	16.76												
57.5	17.53												
				58.4	17.80								
		58.4	17.8			RUN 6 RAN 5.0 REC 0.0 RQD 0%							
				60.0	18.29								NO RECOVERY
60.0	18.29												

REMARKS: Continued On Page 4. sampled to 102.0'.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-22, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+025, 17.4 m Left — DRY ON COMPLETION ?: YES
DATE: July 14, 2015 — SURFACE ELEV.: 959.1 FT. 292.3 M
REFUSAL: DEPTH 49.0 FT. 14.9 M — ELEV. 910.1 FT. 277.4 M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 49.0 FT. 14.9 M — ELEV. 910.1 FT. 277.4 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										Boring in 8 foot cut/fill
2.5	0.76												
				5.0	1.52		A						Clay, sandy, silty, reddish-brown (Fill)(Moist)
5.0	1.52												
7.5	2.29			9.0	2.74								
		9.0	2.74										
10.0	3.05												
12.5	3.81												Clay, sandy, silty, reddish-brown (Moist)
15.0	4.57						A						
17.5	5.33												
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-22, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+025, 17.4 m Left — DRY ON COMPLETION ?: YES
DATE: July 14, 2015 — SURFACE ELEV.: 959.1 FT. 292.3 M
REFUSAL: DEPTH 49.0 FT. 14.9 M — ELEV. 910.1 FT. 277.4 M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 49.0 FT. 14.9 M — ELEV. 910.1 FT. 277.4 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19										Sand, silty, clayey, brown/ reddish-brown (moist)(Variably loose/ 30 seconds per 5 feet)
42.5	12.95												
45.0	13.72						A						
47.5	14.48												
				49.0	14.94								
50.0	15.24												AUGER REFUSAL @ 49' DRY ON COMPLETION
52.5	16.00												
55.0	16.76												
57.5	17.53												
60.0	18.29												

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-23, SHEET 2 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. Mason
BORING NO. / LOCATION: STA 6+040, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 30, 2015 — SURFACE ELEV.: 962.1 FT. 293.2 M
REFUSAL: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
SAMPLED: 102.0 FT. 31.1 M
TOP OF ROCK: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
BEGAN CORING: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
FOOTAGE CORED (LF): 31.1 FT. 9.5 M
BOTTOM OF HOLE DEPTH: 102.0 FT. 31.1 M — ELEV. 860.1 FT. 262.2 M
BORING ADVANCED BY: CORING — POWER AUGERING X — WASHBORING X

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH 42.5 FT. 13.0 M; ELEV. 919.6 FT. 280.3 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
				23.5	7.163		A						
22.5	6.86												
				25.0	7.62	S-7	SS	18	5	4	4	8	DO6
25.0	7.62	23.5	7.163										
		25.0	7.62										
				28.5	8.687		A						
27.5	8.38												
				30.0	9.144	S-8	SS	18	4	4	3	7	DO6
30.0	9.14	28.5	8.687										
		30.0	9.144										
				33.5	10.21		A						
32.5	9.91												
				35.0	10.67	S-9	SS	18	3	2	2	4	DO6 (Very Loose)
35.0	10.67	33.5	10.21										
		35.0	10.67										
				38.5	11.73		A						
37.5	11.43												
		38.5	11.73										
				40.0	12.19	S-10	SS	18	3	1	1	2	DO9
40.0	12.19												

REMARKS: Continued On Page 3. sampled to 102.0'.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-23, SHEET 4 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. Mason
BORING NO. / LOCATION: STA 6+040, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 30, 2015 — SURFACE ELEV.: 962.1 FT. 293.2 M
REFUSAL: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
SAMPLED: 102.0 FT. 31.1 M
TOP OF ROCK: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
BEGAN CORING: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
FOOTAGE CORED (LF): 31.1 FT. 9.5 M
BOTTOM OF HOLE DEPTH: 102.0 FT. 31.1 M — ELEV. 860.1 FT. 262.2 M
BORING ADVANCED BY: CORING — POWER AUGERING X — WASHBORING X

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH 42.5 FT. 13.0 M; ELEV. 919.6 FT. 280.3 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		60.0	18.29										NO RECOVERY
62.5	19.05												
				63.4	19.32								
		63.4	19.32			RUN 7 RAN 5.0 REC 0.0 RQD 0%							
65.0	19.81												NO RECOVERY
67.5	20.57												
				68.3	20.82								
		68.3	20.82			RUN 8 RAN 5.0 REC 0.0 RQD 0%							
70.0	21.33												NO RECOVERY
72.5	22.10												
				73.4	22.37								CASING ADVANCER INSTALLED TO 74' RESUME SAMPLING AT 74'
		73.4	22.37	74.0	22.56								
		74.0	22.56										
75.0	22.86			75.5	23.01	S-12	SS	11	1	1	1	2	Decomposed Siltstone/ Sandstone (Wet)(Very Loose)
		75.5	23.0										
77.5	23.62						Washbore						
				79.4	24.20								
		79.4	24.2	80.0	24.38								
80.0	24.38												

REMARKS: Continued On Page 5. sampled to 102.0'.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015 R:_Infrastructure Project Files\2015 Infra Projects\7681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	1671

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-23, SHEET 5 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. Mason
BORING NO. / LOCATION: STA 6+040, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 30, 2015 — SURFACE ELEV.: 962.1 FT. 293.2 M
REFUSAL: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
SAMPLED: 102.0 FT. 31.1 M
TOP OF ROCK: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
BEGAN CORING: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
FOOTAGE CORED (LF): 31.1 FT. 9.5 M
BOTTOM OF HOLE: DEPTH 102.0 FT. 31.1 M — ELEV. 860.1 FT. 262.2 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING: X

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 42.5 FT. 13.0 M, ELEV. 919.6 FT. 280.3 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
				80.9	24.66	S-13	SS	1	1	2	3		Sand (F–M), silty, dark brown (Wet)(Very Loose)(Decomposed Sandstone/ Siltstone)
		80.9	24.66										
82.5	25.15						Washbore						
				84.7	25.82								
85.0	25.91	84.7	25.82										
				86.2	26.27	S-14	SS	15	2	1	0	1	DO13
		86.2	26.27										
87.5	26.67						Washbore						
				89.0	27.13								
		89.0	27.13										
90.0	27.43					S-15	SS	13	0	1	1	2	DO13
				90.5	27.58								
		90.5	27.58										
92.5	28.19						Washbore						
				94.0	28.65								
		94.0	28.65										
95.0	28.96					S-16	SS	18	1	0	1	1	DO13
				95.5	29.11								
		95.5	29.11										
97.5	29.72						Washbore						
				99.0	30.18								
		99.0	30.18										
100.0	30.48			100.0	30.48	S-17	SS	18	1	0	1	1	DO13 (Spoon Fell to 102.0')

REMARKS: Continued On Page 6.
sampled to 102.0'.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-24, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+055, 16.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 14, 2015 — SURFACE ELEV.: 964.3 FT. 293.9 M
REFUSAL: DEPTH 42.5 FT. 13.0 M — ELEV. 921.8 FT. 281.0 M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 42.5 FT. 13.0 M — ELEV. 921.8 FT. 281.0 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										Boring in 8 foot cut. Sandstone slabs on outslope
2.5	0.76												
5.0	1.52												
7.5	2.29												
10.0	3.05						A						Clay, sandy, silty, reddish-brown with sandstone fragments (Moist)
12.5	3.81												
15.0	4.57												
17.5	5.33												
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-24, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+055, 16.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 14, 2015 — SURFACE ELEV.: 964.3 FT. 293.9 M
REFUSAL: DEPTH 42.5 FT. 13.0 M — ELEV. 921.8 FT. 281.0 M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 42.5 FT. 13.0 M — ELEV. 921.8 FT. 281.0 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19										
							A						Sand, silty, clayey, reddish-brown/ brown (moist)
				42.5	12.95								
42.5	12.95												
45.0	13.72												AUGER REFUSAL @ 42.5' DRY ON COMPLETION
47.5	14.48												
50.0	15.24												
52.5	16.00												
55.0	16.76												
57.5	17.53												
60.0	18.29												

REMARKS:

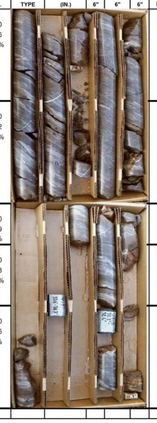
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-25, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. Mason
BORING NO. / LOCATION: STA 6+070, 12.2 m Left — DRY ON COMPLETION ?: YES
DATE: July 31, 2015 — SURFACE ELEV.: 966.8 FT. 294.7 M
REFUSAL: DEPTH 8.0 FT. 2.4 M — ELEV. 958.8 FT. 292.2 M
SAMPLED: 8.0 FT. 2.4 M
TOP OF ROCK: DEPTH 8.0 FT. 2.4 M — ELEV. 958.8 FT. 292.2 M
BEGAN CORING: DEPTH 8.0 FT. 2.4 M — ELEV. 958.8 FT. 292.2 M
FOOTAGE CORED (LF): 44.7 FT. 13.6 M
BOTTOM OF HOLE: DEPTH 52.7 FT. 16.1 M — ELEV. 914.1 FT. 278.6 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 8.0 FT. 2.4 M, ELEV. 958.8 FT. 292.2 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
						RUN 4 RAN 5.0 REC 4.6 RQD 56%							
22.5	6.86												Sandstone, calcareous, gray, weathered, variably stained, leached, weathered DIP 15° TO 60°
				24.3	7.41								
25.0	7.62	24.3	7.407			RUN 5 REC 5.0 REC 4.2 RQD 56%							
27.5	8.38												DO R4 with open stained diagonal bedding planes DIP 20° TO 85°
				29.3	8.93								Core Photo 19.3 to 29.3
30.0	9.14	29.3	8.931			RUN 6 RAN 2.0 REC 0.9 RQD 0%							Sandstone, calcareous, gray to wea. reddish-brown Loss 1.1 DIP 20° TO 40°
				31.3	9.54								
		31.3	9.54			RUN 7 RAN 3.0 REC 1.8 RQD 50%							
32.5	9.91												Loss 1.2 --- Cavity 32.2 to 32.6
													Cavity 33.6 to 38.7
				34.3	10.45								
35.0	10.67	34.3	10.45			RUN 8 RAN 5.0 REC 0.6 RQD 8%							
37.5	11.43												Loss 4.4
													Sandstone, calcareous, weathered Core Photo 29.3 to 39.3
				39.3	11.98								
40.0	12.19	39.3	11.98										Cavity 39.3 to 40.6



REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-23, SHEET 6 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. Mason
BORING NO. / LOCATION: STA 6+040, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: July 30, 2015 — SURFACE ELEV.: 962.1 FT. 293.2 M
REFUSAL: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
SAMPLED: 102.0 FT. 31.1 M
TOP OF ROCK: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
BEGAN CORING: DEPTH 42.3 FT. 12.9 M — ELEV. 919.8 FT. 280.4 M
FOOTAGE CORED (LF): 31.1 FT. 9.5 M
BOTTOM OF HOLE: DEPTH 102.0 FT. 31.1 M — ELEV. 860.1 FT. 262.2 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING: X

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 42.5 FT. 13.0 M, ELEV. 919.6 FT. 280.3 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		100.0	30.48										DO13
				102.0	31.09								
102.5	31.24												BORING TERMINATED AT 102.0'
105.0	32.00												
107.5	32.76												
110.0	33.52												
112.5	34.29												
115.0	35.05												
117.5	35.81												
120.0	36.57												

REMARKS:
sampled to 102.0'.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-24, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+055, 16.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 14, 2015 — SURFACE ELEV.: 964.3 FT. 293.9 M
REFUSAL: DEPTH 42.5 FT. 13.0 M — ELEV. 921.8 FT. 281.0 M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 42.5 FT. 13.0 M — ELEV. 921.8 FT. 281.0 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86						A						Clay, sandy, silty, reddish-brown with sandstone fragments (Moist)
25.0	7.62												
				26.0	7.92								
		26.0	7.925	26.5	8.08		A						Weathered rock
		26.5	8.077										
27.5	8.38												
30.0	9.14												
32.5	9.91						A						Sand, silty, clayey, reddish-brown/ brown (moist)
35.0	10.67												
37.5	11.43												
				40.0	12.19								
40.0	12.19												

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-25, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. Mason
BORING NO. / LOCATION: STA 6+070, 12.2 m Left — DRY ON COMPLETION ?: YES
DATE: July 31, 2015 — SURFACE ELEV.: 966.8 FT. 294.7 M
REFUSAL: DEPTH 8.0 FT. 2.4 M — ELEV. 958.8 FT. 292.2 M
SAMPLED: 8.0 FT. 2.4 M
TOP OF ROCK: DEPTH 8.0 FT. 2.4 M — ELEV. 958.8 FT. 292.2 M
BEGAN CORING: DEPTH 8.0 FT. 2.4 M — ELEV. 958.8 FT. 292.2 M
FOOTAGE CORED (LF): 44.7 FT. 13.6 M
BOTTOM OF HOLE: DEPTH 52.7 FT. 16.1 M — ELEV. 914.1 FT. 278.6 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 8.0 FT. 2.4 M, ELEV. 958.8 FT. 292.2 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
				1.0	0.30								
		1.0	0.30			S-1	SS	14	2	3	2	5	Clay, sandy, silty, dark reddish-brown (Moist)(Medium Stiff)
				2.5	0.76								
		2.5	0.76				A						
				3.5	1.07								
		3.5	1.07										
2.5	0.76												
				5.0	1.52								
		5.0	1.52			S-2	SS	16	2	3	2	5	Sand (F-M), silty, reddish-brown with sandstone fragments (Moist)(Loose) (Decomposed Sandstone)
				6.0	1.83		A						
		6.0	1.83										
5.0	1.52												
				7.5	2.29								
		7.5	2.29	8.0	2.44	S-3	SS	18	2	3	5	8	DO2, clayey, to yellowish-brown
7.5	2.29						A						
		8.0	2.44										
				9.3	2.83	RUN 1 RAN 1.0, REC 0 RQD 0%							Auger Refusal @ 8.0', Dry Prior to Coring Begin NQ Coring @ 8.0', 100% DWL NO RECOVERY
		9.3	2.83										
10.0	3.05					RUN 2 RAN 5.0 REC 3.8 RQD 62%							
12.5	3.81												Sandstone, calcareous, gray, weathered, reddish-brown, Loss 1.2 DIP 30° to 75° cavity 12.7 to 13.3
				14.3	4.36								Sandstone, calcareous, gray, weathered, reddish-brown
15.0	4.57												
		14.3	4.36			RUN 3 RAN 5.0 REC 2.2 RQD 28%							Cavity 14.4 to 16.8
17.5	5.33												Sandstone, calcareous, gray, weathered reddish-brown
				19.3	5.88								Core Photo 9.3 to 19.3
20.0	6.10	19.3	5.88	20.0	6.10								

REMARKS: Continued On Page 2.

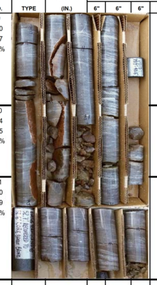
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-25, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: J. Mason
BORING NO. / LOCATION: STA 6+070, 12.2 m Left — DRY ON COMPLETION ?: YES
DATE: July 31, 2015 — SURFACE ELEV.: 966.8 FT. 294.7 M
REFUSAL: DEPTH 8.0 FT. 2.4 M — ELEV. 958.8 FT. 292.2 M
SAMPLED: 8.0 FT. 2.4 M
TOP OF ROCK: DEPTH 8.0 FT. 2.4 M — ELEV. 958.8 FT. 292.2 M
BEGAN CORING: DEPTH 8.0 FT. 2.4 M — ELEV. 958.8 FT. 292.2 M
FOOTAGE CORED (LF): 44.7 FT. 13.6 M
BOTTOM OF HOLE: DEPTH 52.7 FT. 16.1 M — ELEV. 914.1 FT. 278.6 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 8.0 FT. 2.4 M, ELEV. 958.8 FT. 292.2 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
													Continue cavity 39.3 to 40.6
						RUN 9 RAN 5.0 REC 3.7 RQD 68%							
42.5	12.95												Sandstone, calcareous, gray, wea. reddish-brown Loss 1.3 DIP 10°
				44.3	13.50								
		44.3	13.5										
45.0	13.72					RUN 10 RAN 3.4 REC 2.5 RQD 10%							
47.5	14.48												DO R9, variably fractured, weathered with open stained vertical fractures Loss 0.9 DIP 10° TO 20° and 70° to 90°
				47.7	14.54								
		47.7	14.54										Core Photo 39.3 to 49.5
						RUN 11 RAN 5.0 REC 4.9 RQD 92%							
50.0	15.24												DIP 10° TO 15°
				52.0	15.85								q_u=115.7 MPa, γ=26.41 kN/m³, 32.5% quartz
52.5	16.00												Core Photo 49.5 to 52.6
				52.7	16.06								
55.0	16.76												BORING TERMINATED @ 52.7' 100% DWL CORE BARREL BROKE
57.5	17.53												
60.0	18.29												



REMARKS:

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC DOT

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\Y681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167J

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-26, SHEET 1 OF 1

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+085, 14.3 m Left — DRY ON COMPLETION ?: YES
DATE: August 5, 2015 — SURFACE ELEV.: 969.9 FT. 295.6 M
REFUSAL: DEPTH 10.5 FT. 3.2 M — ELEV. 959.4 FT. 292.4 M
SAMPLED: NA FT. — TOP OF ROCK: DEPTH NA FT. — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 10.5 FT. 3.2 M — ELEV. 959.4 FT. 292.4 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
0.0	0.00												
2.5	0.76												
5.0	1.52						A						Clay, very sandy, silty, reddish-brown
7.5	2.29												
10.0	3.05			10.5	3.20								
12.5	3.81												AUGER REFUSAL @ 10.5' DRY ON COMPLETION
15.0	4.57												
17.5	5.33												
20.0	6.10												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-27, SHEET 2 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: MH
BORING NO. / LOCATION: Sta 6+100, 16.9 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-17-2015 TO 8-21-2015 — SURFACE ELEV.: 972.3 FT. 296.4 M
REFUSAL: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
SAMPLED: 20.8 FT. 6.3 M — TOP OF ROCK: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
BEGAN CORING: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
FOOTAGE CORED (LF): 89.1 FT. 27.2 M
BOTTOM OF HOLE DEPTH: 109.9 FT. 33.5 M — ELEV. 862.4 FT. 262.9 M
BORING ADVANCED BY: CORING POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH 20.8 FT. 6.3 M; ELEV. 951.5 FT. 290.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
20.0	6.10			20.8	6.34		A						AUGER REFUSAL @ 20.8', DRY PRIOR TO CORING BEGIN HQ CORING @ 20.8', 100% DWL
20.8						RUN 1 RAN 3.4 REC 0.7 RQD 0%							Weathered Sandstone Fragments Probable side wall coring along vertical weathering feature; Loss 2.7'
22.5	6.86												
				24.2	7.38								
25.0	7.62	24.2	7.376			RUN 2 RAN 1.1 REC 0.9 RQD 82%							Sandstone, calcareous, gray, wea. to reddish-brown CORRECTED DEPTH 25.2
				25.4	7.74								
		25.4	7.742			RUN 3 RAN 5.0 REC 4.0 RQD 60%							
27.5	8.38												--- open cavities 27.3' to 27.6' and 28.1' to 28.6'
30.0	9.14												
				30.4	9.27								
		30.4	9.266			RUN 4 RAN 5.1 REC 4.8 RQD 40%							
32.5	9.91												33.8' to 34.5' partial core, variably stained leached weathered, Loss 0.2'
35.0	10.67												CORING CHANGED TO NQ SIZE @ 35.5'
				35.5	10.82								
		35.5	10.82	35.9	10.94	RUN 5							
		35.9	10.94			RUN 6 RAN 4.0 REC 3.9 RQD 55%							
37.5	11.43												35.9' to 36.3' open, stained, diagonal bedding plane 38.9' to 39.8' partial core, open, stained, leached Loss 0.1'
				39.9	12.16								
40.0	12.19												

REMARKS: Continued On Page 3.
BORING LOCATED IN 8 FOOT CUT.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-27, SHEET 4 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: MH
BORING NO. / LOCATION: Sta 6+100, 16.9 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-17-2015 TO 8-21-2015 — SURFACE ELEV.: 972.3 FT. 296.4 M
REFUSAL: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
SAMPLED: 20.8 FT. 6.3 M — TOP OF ROCK: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
BEGAN CORING: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
FOOTAGE CORED (LF): 89.1 FT. 27.2 M
BOTTOM OF HOLE DEPTH: 109.9 FT. 33.5 M — ELEV. 862.4 FT. 262.9 M
BORING ADVANCED BY: CORING POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH 20.8 FT. 6.3 M; ELEV. 951.5 FT. 290.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
62.5	19.05												Sandstone, calcareous, gray, variably siliceous open stained diagonal bedding plane; 62.7 to 64.7 open stained, leached, weathered, Loss 1.7'
				64.7	19.72								
65.0	19.81	64.7	19.72			RUN 12 RAN 5.0 REC 0.0 RQD 0%							NO RECOVERY Probably very sandy clay filled cavity
67.5	20.57												
				69.7	21.24								
70.0	21.33	69.7	21.24			RUN 13 RAN 5.0 REC 4.4 RQD 66%							Sandstone, calcareous, gray to weathered reddish-brown with open stained bedding planes, 73.6 to 74.7 open stained, leached with very sandy clay filled cavity Loss 0.6'
72.5	22.10												
				74.7	22.77								
75.0	22.86	74.7	22.77			RUN 14 RAN 5.0 REC 5.2 RQD 100%							
77.5	23.62												
				79.7	24.29								
80.0	24.38												CORRECTED DEPTH 79.9'

REMARKS: Continued On Page 5
BORING LOCATED IN 8 FOOT CUT.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-27, SHEET 6 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: MH
BORING NO. / LOCATION: Sta 6+100, 16.9 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-17-2015 TO 8-21-2015 — SURFACE ELEV.: 972.3 FT. 296.4 M
REFUSAL: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
SAMPLED: 20.8 FT. 6.3 M — TOP OF ROCK: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
BEGAN CORING: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
FOOTAGE CORED (LF): 89.1 FT. 27.2 M
BOTTOM OF HOLE DEPTH: 109.9 FT. 33.5 M — ELEV. 862.4 FT. 262.9 M
BORING ADVANCED BY: CORING POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH 20.8 FT. 6.3 M; ELEV. 951.5 FT. 290.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
102.5	31.24												Sandstone, calcareous, mottled gray with open stained bedding planes
105.0	32.00												
				104.9	31.97								
		104.9	31.97			RUN 20 RAN 5.0 REC 5.0 RQD 100%							
107.5	32.76												
110.0	33.52												
				109.9	33.50								
112.5	34.29												BORING TERMINATED @ 109.0' 100% DWL
115.0	35.05												
117.5	35.81												
120.0	36.57												

REMARKS:
BORING LOCATED IN 8 FOOT CUT.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-27, SHEET 1 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: MH
BORING NO. / LOCATION: 6ta 6+100, 16.9 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-17-2015 TO 8-21-2015 — SURFACE ELEV.: 972.3 FT. 296.4 M
REFUSAL: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
SAMPLED: 20.8 FT. 6.3 M — TOP OF ROCK: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
BEGAN CORING: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
FOOTAGE CORED (LF): 89.1 FT. 27.2 M
BOTTOM OF HOLE DEPTH: 109.9 FT. 33.5 M — ELEV. 862.4 FT. 262.9 M
BORING ADVANCED BY: CORING POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH 20.8 FT. 6.3 M; ELEV. 951.5 FT. 290.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
0.0	0.00						A						
		1.0	0.30	1.0	0.30								
		1.0	0.30			S-1	SS	18	4	3	2	5	Sand (F-M), clayey, silty, dark reddish-brown (Moist)(Loose)
2.5	0.76						A						
		2.5	0.76	2.5	0.76								
		2.5	0.76	3.5	1.07								
		3.5	1.07			S-2	SS	18	3	2	3	5	Clay, sandy, silty, dark reddish-brown to yellowish-brown (Moist)(Medium Stiff)
5.0	1.52						A						
		5.0	1.52	5.0	1.52								
		5.0	1.52	6.0	1.83								
		6.0	1.83			S-3	SS	18	5	4	4	8	Sand (F-M), clayey, silty, dark reddish-brown to yellowish-brown (Moist)(Loose)
7.5	2.29						A						
		7.5	2.29	7.5	2.29								
		7.5	2.29	8.5	2.59								
		8.5	2.59			S-4	SS	18	6	6	7	13	Sand (F-M), silty, reddish-brown (Moist)(Medium Dense)
10.0	3.05												
		10.0	3.05	10.0	3.05								
12.5	3.81						A						
		13.5	4.11	13.5	4.11								
		13.5	4.11			S-5	SS	18	4	4	4	8	Sand (F-M), silty, dark brown to yellowish-brown (Moist)(Loose)(Decomposed Sandstone/ Siltstone)
15.0	4.57												
		15.0	4.57	15.0	4.57								
17.5	5.33						A						
		18.5	5.64	18.5	5.64								
		18.5	5.64			S-6	SS	18	2	1	1	2	DO5 (Very Loose)
20.0	6.10			20.0	6.10								

REMARKS: Continued On Page 2.
BORING LOCATED IN 8 FOOT CUT.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-27, SHEET 3 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: MH
BORING NO. / LOCATION: 6ta 6+100, 16.9 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-17-2015 TO 8-21-2015 — SURFACE ELEV.: 972.3 FT. 296.4 M
REFUSAL: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
SAMPLED: 20.8 FT. 6.3 M — TOP OF ROCK: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
BEGAN CORING: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
FOOTAGE CORED (LF): 89.1 FT. 27.2 M
BOTTOM OF HOLE DEPTH: 109.9 FT. 33.5 M — ELEV. 862.4 FT. 262.9 M
BORING ADVANCED BY: CORING POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH 20.8 FT. 6.3 M; ELEV. 951.5 FT. 290.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
39.9	12.16						A						
42.5	12.95												Sandstone, calcareous, gray to wea. reddish-brown with numerous open stained leached diagonal bedding planes 39.9 to 40.7, 41.0 to 41.6, and 44.4 to 44.9
				44.7	13.62								
		44.7	13.62			RUN 8 RAN 4.9 REC 4.3 RQD 53%							
45.0	13.72												
47.5	14.48												open cavity 45.9 to 46.2, Loss 0.3; 46.6 to 47.7 open, stained, leached diagonal bedding planes DIP 80°
				49.6	15.12								
		49.6	15.12			RUN 9 RAN 5.1 REC 5.1 RQD 67%							
50.0	15.24												
52.5	16.00												50.7 to 51.4 open stained leached, diagonal bedding planes; 52.6 to 53.4 open stained, fractured diagonal bedding planes
				54.7	16.67								
		54.7	16.67			RUN 10 RAN 5.0 REC 5.0 RQD 80%							
55.0	16.76												
57.5	17.53												54.7 to 55.2 open stained leached; 56.0 to 56.6 open stained diagonal bedding planes DIP 60° TO 70°
				59.7	18.20								
60.0	18.29												

REMARKS: Continued On Page 4.
BORING LOCATED IN 8 FOOT CUT.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-27, SHEET 5 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: MH
BORING NO. / LOCATION: 6ta 6+100, 16.0 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-17-2015 TO 8-21-2015 — SURFACE ELEV.: 972.3 FT. 296.4 M
REFUSAL: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
SAMPLED: 20.8 FT. 6.3 M — TOP OF ROCK: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
BEGAN CORING: DEPTH 20.8 FT. 6.3 M — ELEV. 951.5 FT. 290.0 M
FOOTAGE CORED (LF): 89.1 FT. 27.2 M
BOTTOM OF HOLE DEPTH: 109.9 FT. 33.5 M — ELEV. 862.4 FT. 262.9 M
BORING ADVANCED BY: CORING POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH 20.8 FT. 6.3 M; ELEV. 951.5 FT. 290.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
79.7	24.29												
82.5	25.15												Sandstone, calcareous, mottled gray with open stained bedding planes
				84.8	25.85								
		84.8	25.85			RUN 16 RAN 5.0 REC 5.0 RQD 94%							
85.0	25.91												
87.5	26.67												
				89.8	27.37								
90.0	27.43	89.8	27.37			RUN 17 RAN 5.0 REC 5.0 RQD 98%							--- open stained, leached bedding planes and diagonal fracture
92.5	28.19												
				94.8	28.90								
95.0	28.96	94.8	28.9			RUN 18 RAN 5.0 REC 4.7 RQD 60%							97.2 to 98.1 stained, leached weathered with open cavity, Loss 0.3'
97.5	29.72												
				99.8	30.42								
100.0	30.48												

REMARKS: Continue On Page 6.
BORING LOCATED IN 8 FOOT CUT.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-28, SHEET 1 OF 1

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+115, 20.5 m Left — DRY ON COMPLETION ?: YES
DATE: August 5, 2015 — SURFACE ELEV.: 979.2 FT. 298.5 M
REFUSAL: DEPTH 16.0 FT. 4.9 M — ELEV. 963.2 FT. 293.6 M
SAMPLED: NA FT. M — TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE DEPTH: 16.0 FT. 4.9 M — ELEV. 963.2 FT. 293.6 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
0.0	0.00												
2.5	0.76												
5.0	1.52						A						Clay, very sandy, silty, reddish-brown (Some Rock Scraping @ 13.5')
7.5	2.29												
10.0	3.05												
12.5	3.81												
15.0	4.57												
				16.0	4.88								
17.5	5.33												AUGER REFUSAL @ 16.0' DRY ON COMPLETION
20.0	6.10												

REMARKS: 8 FOOT SIDE HILL CUT

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\7681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23.RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167K

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-29, SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: MH
BORING NO. / LOCATION: Sta 6+130, 21.0 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 22, 2015 — SURFACE ELEV.: 972.6 FT. 296.4 M
REFUSAL: DEPTH 22.6 FT. 6.9 M — ELEV. 950.0 FT. 289.6 M
SAMPLED 22.6 FT. 6.9 M
TOP OF ROCK: DEPTH 22.6 FT. 6.9 M — ELEV. 950.0 FT. 289.6 M
BEGAN CORING: DEPTH 22.6 FT. 6.9 M — ELEV. 950.0 FT. 289.6 M
FOOTAGE CORED (LF): 13.1 FT. 4.0 M
BOTTOM OF HOLE: DEPTH 35.7 FT. 10.9 M — ELEV. 936.9 FT. 285.6 M
BORING ADVANCED BY: CORE — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH FT. M; ELEV. FT. M.

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	FROM M.	TO FT.	TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
		1.0	0.30	1.0	0.30								
				2.5	0.76	S-1	SS	14	2	3	4	7	Sand (F-M), silty, reddish-brown (Moist)(Loose)
2.5	0.76	2.5	0.76				A						
		3.5	1.07	3.5	1.07								
				5.0	1.52	S-2	SS	18	5	6	6	12	DO1, (Medium Dense)
5.0	1.52	5.0	1.52				A						
		6.0	1.83	6.0	1.83								
				7.5	2.29	S-3	SS	18	3	3	5	8	DO1, (Loose)
7.5	2.29	7.5	2.29				A						
		8.5	2.59	8.5	2.59								
				10.0	3.05	S-4	SS	18	3	5	6	11	Silt, sandy, yellowish-brown (Moist)(Stiff)
10.0	3.05	10.0	3.05										
							A						
12.5	3.81												
		13.5	4.11	13.5	4.11								
				15.0	4.57	S-5	SS	18	1	1	1	2	Sand (F-M), silty, dark brown (Moist)(Very Loose)
15.0	4.57	15.0	4.57										
							A						
17.5	5.33												
		18.5	5.64	18.5	5.64								
				20.0	6.10	S-6	SS	13	0	0	1	1	DO5
20.0	6.10												

REMARKS: Continued On Page 2. BORING IN 8 FOOT CUT

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-30, SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+145, 20.5 m Left — DRY ON COMPLETION ?: YES
DATE: August 5, 2015 — SURFACE ELEV.: 968.7 FT. 295.3 M
REFUSAL: DEPTH 35.0 FT. 10.7 M — ELEV. 933.7 FT. 284.6 M
SAMPLED NA FT. M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 35.0 FT. 10.7 M — ELEV. 933.7 FT. 284.6 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH FT. M; ELEV. FT. M.

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	FROM M.	TO FT.	TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
2.5	0.76												
5.0	1.52						A						Clay, very sandy, silty, reddish-brown (Moist)
7.5	2.29												
10.0	3.05												
				12.0	3.66								
12.5	3.81	12.0	3.66										
15.0	4.57						A						Sand, silty, clayey, reddish-brown (Moist)
17.5	5.33												
				20.0	6.10								
20.0	6.10												

REMARKS: 6 FOOT SIDE HILL CUT. Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-31, SHEET 1 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+160, 20.5 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 7-11, 2015 — SURFACE ELEV.: 963.3 FT. 293.6 M
REFUSAL: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
SAMPLED 21.2 FT. 6.5 M
TOP OF ROCK: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
BEGAN CORING: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
FOOTAGE CORED (LF): 47.3 FT. 14.4 M
BOTTOM OF HOLE: DEPTH 68.5 FT. 20.9 M — ELEV. 894.8 FT. 272.7 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 44.0 FT. 13.4 M; ELEV. 919.3 FT. 280.2 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	FROM M.	TO FT.	TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
		1.0	0.30	1.0	0.30								
				2.5	0.76	S-1	SS	14	3	3	3	5	Clay, very sandy, silty, reddish-brown (Moist)(Medium Stiff)
2.5	0.76	2.5	0.76				A						
		3.5	1.07	3.5	1.07								
				5.0	1.52	S-2	SS	14	2	3	4	7	DO1, mottled yellowish-brown
5.0	1.52	5.0	1.52				A						
		6.0	1.83	6.0	1.83								
				7.5	2.29	S-3	SS	14	4	4	6	10	DO1, (stiff)
7.5	2.29	7.5	2.29				A						
		8.5	2.59	8.5	2.59								
				10.0	3.05	S-4	SS	14	2	5	7	12	DO3
10.0	3.05	10.0	3.05										
							A						
12.5	3.81												
		13.5	4.11	13.5	4.11								
				15.0	4.57	S-5	SS	14	3	4	6	10	Sand (F-M), silty, slightly clayey, reddish-brown /yellowish-brown (Moist)(Loose) (Decomposed Sandstone/ Siltstone)
15.0	4.57	15.0	4.57										
							A						
17.5	5.33												
		18.5	5.64	18.5	5.64								
				20.0	6.10	S-6	SS	16	3	3	2	5	DO5, (very loose)
20.0	6.10												

REMARKS: BORING IN 10 FOOT SIDE HILL CUT. Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-31, SHEET 3 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+160, 20.5 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 7-11, 2015 — SURFACE ELEV.: 963.3 FT. 293.6 M
REFUSAL: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
SAMPLED 21.2 FT. 6.5 M
TOP OF ROCK: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
BEGAN CORING: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
FOOTAGE CORED (LF): 47.3 FT. 14.4 M
BOTTOM OF HOLE: DEPTH 68.5 FT. 20.9 M — ELEV. 894.8 FT. 272.7 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 44.0 FT. 13.4 M; ELEV. 919.3 FT. 280.2 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	FROM M.	TO FT.	TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19			RUN 5 RAN 5.0 REC 5.0 RQD 38%							DO R3
42.5	12.95												40.8 to 41.6; 42.4 to 44.3; and partially healed vertical fractures 44.3 to 44.7 DIP 10° TO 15° 100% DWL @ 44.0
				45.0	13.72								
45.0	13.72	45.0	13.72			RUN 6 RAN 3.1 REC 3.0 RQD 0%							---variably weathered with open stained vertical fractures
47.5	14.48												
				48.1	14.66								
		48.1	14.66			RUN 7 RAN 1.9 REC 1.8 RQD 68%							--- weathered with open stained
				48.9	14.90								q_u=146.8 MPa, γ=26.58 kN/m³
				50.0	15.24								diagonal fractures 48.1 to 48.4 DIP 10° TO 15°
50.0	15.24	50.0	15.24			RUN 8 RAN 5.0 REC 5.0 RQD 72%							---with open, stained leached high angle (70° to 80°) diagonal fractures 52.5 to 53.7; and healed vertical fractures 53.7 to 55.0
52.5	16.00												
				55.0	16.76								
55.0	16.76	55.0	16.76			RUN 9 RAN 5.0 REC 4.9 RQD 10%							--- variably stained, leached, weathered with high angle diagonal fractures (70° to 80°)
57.5	17.53												
				60.0	18.29								
60.0	18.29												

REMARKS: BORING IN 10 FOOT SIDE HILL CUT. Continued On Page 4.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-29, SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: MH
BORING NO. / LOCATION: Sta 6+130, 21.0 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 22, 2015 — SURFACE ELEV.: 972.6 FT. 296.4 M
REFUSAL: DEPTH 22.6 FT. 6.9 M — ELEV. 950.0 FT. 289.6 M
SAMPLED 22.6 FT. 6.9 M
TOP OF ROCK: DEPTH 22.6 FT. 6.9 M — ELEV. 950.0 FT. 289.6 M
BEGAN CORING: DEPTH 22.6 FT. 6.9 M — ELEV. 950.0 FT. 289.6 M
FOOTAGE CORED (LF): 13.1 FT. 4.0 M
BOTTOM OF HOLE: DEPTH 35.7 FT. 10.9 M — ELEV. 936.9 FT. 285.6 M
BORING ADVANCED BY: CORE — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH FT. M; ELEV. FT. M.

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	FROM M.	TO FT.	TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10				A						Same As Above
22.5	6.86			22.6	6.89								AUGER REFUSAL @ 22.6', DRY PRIOR TO CORING BEGIN NQ CORING @ 22.6', 100% DWR
		22.6	6.889			RUN 1 RAN 3.1 REC 2.9 RQD 65%							Sandstone, calcareous, gray to wea. reddish-brown 22.6' to 23.1' stained, leached, weathered; 25.3 to 25.7 open, stained, leached, partial cavity
25.0	7.62			25.7	7.83								
		25.7	7.833			RUN 2 RAN 5.0 REC 5.0 RQD 96%							--- with open, stained diagonal fracture
27.5	8.38												
30.0	9.14			30.7	9.36								Flange @ 30.7
		30.7	9.357			RUN 3 RAN 5.0 REC 4.8 RQD 82%							
32.5	9.91												31.2' to 31.7' open stained diagonal fracutres
35.0	10.67			35.7	10.88								
37.5	11.43												BORING TERMINATED @ 35.7' 100% DWR
40.0	12.19												

REMARKS: BORING IN 8 FOOT CUT

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-30, SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+145, 20.5 m Left — DRY ON COMPLETION ?: YES
DATE: August 5, 2015 — SURFACE ELEV.: 968.7 FT. 295.3 M
REFUSAL: DEPTH 35.0 FT. 10.7 M — ELEV. 933.7 FT. 284.6 M
SAMPLED NA FT. M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 35.0 FT. 10.7 M — ELEV. 933.7 FT. 284.6 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH FT. M; ELEV. FT. M.

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	FROM M.	TO FT.	TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86												
25.0	7.62						A						Sand (F-M), slightly silty, brown (moist)(Loose)
27.5	8.38												
30.0	9.14												
32.5	9.91												
				35.0	10.67								
35.0	10.67												AUGER REFUSAL @ 35.0' DRY ON COMPLETION
37.5	11.43												
40.0	12.19												

REMARKS: 6 FOOT SIDE HILL CUT

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-31, SHEET 2 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+160, 20.5 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 7-11, 2015 — SURFACE ELEV.: 963.3 FT. 293.6 M
REFUSAL: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
SAMPLED 21.2 FT. 6.5 M
TOP OF ROCK: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
BEGAN CORING: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
FOOTAGE CORED (LF): 47.3 FT. 14.4 M
BOTTOM OF HOLE: DEPTH 68.5 FT. 20.9 M — ELEV. 894.8 FT. 272.7 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 44.0 FT. 13.4 M; ELEV. 919.3 FT. 280.2 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	FROM M.	TO FT.	TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
				21.2	6.46								Auger Refusal @ 21.2', Dry On Completion Begin NQ Coring @ 21.2', 100% DWR
22.5	6.86	21.2				RUN 1 RAN 3.8 REC 3.4 RQD 42%							Sandstone, calcareous, gray to wea. reddish-brown high angle fractures (70° to 80°), variably stained, leached 21.2 to 21.7; 22.7 to 23.7; Loss 22.4 to 22.7 DIP 5° TO 10°
				25.0	7.62								
25.0	7.62	25.0	7.62			RUN 2 RAN 5.0 REC 4.8 RQD 84%							---siliceous, open stained horizontal fracture, and open stained diagonal fractures vertical fractures 29.4 to 29.8
				28.1	8.56								q_u=161.2 MPa, γ=26.62 kN/m³
27.5	8.38												
				30.0	9.14								
30.0	9.14	30.0	9.144			RUN 3 RAN 5.0 REC 5.1 RQD 40%							--- to weathered reddish-brown with open stained diagonal fractures, diagonal bedding planes, variably fractured (70° to 80°) DIP 5° TO 10°
32.5	9.91												
				35.0	10.67								
35.0	10.67	35.0	10.67			RUN 4 RAN 5.0 REC 5.0 RQD 100%							--- HORIZONTAL BEDDING
37.5	11.43												
				40.0	12.19								
40.0	12.19												

REMARKS: BORING IN 10 FOOT SIDE HILL CUT. Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-31, SHEET 4 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+160, 20.5 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 7-11, 2015 — SURFACE ELEV.: 963.3 FT. 293.6 M
REFUSAL: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
SAMPLED 21.2 FT. 6.5 M
TOP OF ROCK: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
BEGAN CORING: DEPTH 21.2 FT. 6.5 M — ELEV. 942.1 FT. 287.2 M
FOOTAGE CORED (LF): 47.3 FT. 14.4 M
BOTTOM OF HOLE: DEPTH 68.5 FT. 20.9 M — ELEV. 894.8 FT. 272.7 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 44.0 FT. 13.4 M; ELEV. 919.3 FT. 280.2 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	FROM M.	TO FT.	TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		60.0	18.29			RUN 10 RAN 5.0 REC 5.0 RQD 78%							--- with open diagonal fractures; partially healed vertical fractures 64.0 to 64.2 and 64.2 to 64.7
62.5	19.05												
				65.0	19.81								
65.0	19.81	65.0	19.81			RUN 11 RAN 3.5 REC 3.5 RQD 26%							--- with open stained diagonal fractures (70° to 80°) 65.0 to 66.5 and open stained diagonal fractures with partial core; partially healed vertical fractures and vertical fractures 66.6 to 68.5
67.5	20.57												
				68.5	20.88								
70.0	21.33												BORING TERMINATED @ 68.5' 100% DWL
72.5	22.10												
75.0	22.86												
77.5	23.62												
80.0	24.38												

REMARKS: BORING IN 10 FOOT SIDE HILL CUT

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC DO-IT

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

R:_Infrastructure Project Files\2015 Infra Projects\T68i-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT
9/9/2015

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167L

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-32, SHEET 1 OF 1

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+175, 21.7 m Left — DRY ON COMPLETION ?: YES
DATE: August 5, 2015 — SURFACE ELEV.: 962.4 FT. 293.3 M
REFUSAL: DEPTH 9.0 FT. 2.7 M — ELEV. 953.3 FT. 290.6 M
SAMPLED: NA FT. — TOP OF ROCK: DEPTH NA FT. — BEGAN CORING: DEPTH NA FT. — FOOTAGE CORED (LF): 0.0 FT. 0.0 M — BOTTOM OF HOLE DEPTH: 9.0 FT. 2.7 M — ELEV. 953.3 FT. 290.6 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M — ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M; LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
2.5	0.76												
5.0	1.52						A						Clay, very sandy, reddish-brown (Moist)
7.5	2.29												
				9.0	2.74								
10.0	3.05												AUGER REFUSAL @ 9.0' DRY ON COMPLETION AUGERS LEADING OFF
12.5	3.81												
15.0	4.57												
17.5	5.33												
20.0	6.10												

REMARKS: 6 FOOT SIDE HILL CUT

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-34, SHEET 1 OF 1

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+205, 20.5 m Left — DRY ON COMPLETION ?: YES
DATE: August 5, 2015 — SURFACE ELEV.: 952.9 FT. 290.4 M
REFUSAL: DEPTH 16.5 FT. 5.0 M — ELEV. 936.4 FT. 285.4 M
SAMPLED: NA FT. — TOP OF ROCK: DEPTH NA FT. — BEGAN CORING: DEPTH NA FT. — FOOTAGE CORED (LF): 0.0 FT. 0.0 M — BOTTOM OF HOLE DEPTH: 16.5 FT. 5.0 M — ELEV. 936.4 FT. 285.4 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M — ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M; LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
2.5	0.76												
5.0	1.52						A						Clay, sandy, silty, reddish-brown (Moist)
7.5	2.29												
10.0	3.05												
12.5	3.81												
15.0	4.57												
				16.5	5.03								
17.5	5.33												AUGER REFUSAL @ 16.5' DRY ON COMPLETION
20.0	6.10												

REMARKS: 5 FOOT SIDE HILL CUT

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-36, SHEET 1 OF 1

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+235, 20.5 m Left — DRY ON COMPLETION ?: YES
DATE: August 5, 2015 — SURFACE ELEV.: 945.5 FT. 288.2 M
REFUSAL: DEPTH 6.5 FT. 2.0 M — ELEV. 939.0 FT. 286.2 M
SAMPLED: NA FT. — TOP OF ROCK: DEPTH NA FT. — BEGAN CORING: DEPTH NA FT. — FOOTAGE CORED (LF): 0.0 FT. 0.0 M — BOTTOM OF HOLE DEPTH: 6.5 FT. 2.0 M — ELEV. 939.0 FT. 286.2 M
BORING ADVANCED BY: POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M — ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M; LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
2.5	0.76												
5.0	1.52						A						Clay, sandy, silty, reddish-brown (Moist)
				6.5	1.98								
7.5	2.29												
10.0	3.05												AUGER REFUSAL @ 6.5' DRY ON COMPLETION
12.5	3.81												
15.0	4.57												
17.5	5.33												
20.0	6.10												

REMARKS: 6 FOOT SIDE HILL CUT

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

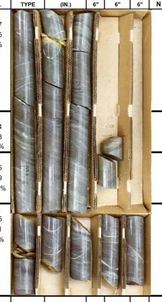
LOG OF BORING B-37, SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+250, 24.2 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-5-2015 TO 8-6-2015 — SURFACE ELEV.: 940.1 FT. 286.5 M
REFUSAL: DEPTH 20.0 FT. 6.1 M — ELEV. 920.1 FT. 280.4 M
SAMPLED: 20.0 FT. 6.1 M — TOP OF ROCK: DEPTH 20.0 FT. 6.1 M — BEGAN CORING: DEPTH 20.0 FT. 6.1 M — FOOTAGE CORED (LF): 14.1 FT. 4.3 M — BOTTOM OF HOLE DEPTH: 34.1 FT. 10.4 M — ELEV. 906.0 FT. 276.1 M
BORING ADVANCED BY: CORING — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M — ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M; LDW AT: DEPTH 20.0 FT. 6.1 M — ELEV. 920.1 FT. 280.4 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10			RUN 1 RAN 4.7 REC 0.5 RQD 0%							Begin NQ Coring @ 20.0', 100% DWL
22.5	6.86												Sand filled cavity 20.0 to 23.4, Loss 3.4' Sandstone, calcareous, siliceous, gray DIP 35°
				24.7	7.53								CORRECTED DEPTH 23.9
25.0	7.62												
		24.7	7.529			RUN 2 RAN 2.4 REC 2.8 RQD 93%							--- with soft parting and clay filled cavity 24.8 to 24.9 and 25.1 to 25.2 respectively
				27.1	8.26								CORRECTED DEPTH 26.7
27.5	8.38	27.1	8.26			RUN 3 RAN 2.5 REC 1.9 RQD 100%							
				29.6	9.02								CORRECTED DEPTH 29.0
30.0	9.14	29.6	9.022			RUN 4 RAN 4.5 REC 5.1 RQD 90%							
				30.5	9.30								q_u=179.0 MPa, γ=26.46 kN/m^3, 29.4% quartz
32.5	9.91												--- with open, stained diagonal bedding plane 31.6 to 31.8, open stained leached 33.0 to 33.1, and open stained, leached with diagonal fractures 33.4 to 33.6 DIP 50° to 70°
				34.1	10.39								
35.0	10.67												BORING TERMINATED @ 34.1' 100% DWL
37.5	11.43												
40.0	12.19												

REMARKS:



amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

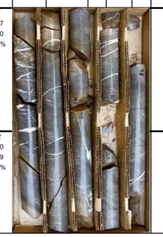
LOG OF BORING B-33, SHEET 1 OF 1

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: Sta 6+190, Offset 23.7 m, left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 24, 2015 — SURFACE ELEV.: 962.4 FT. 293.3 M
REFUSAL: DEPTH 9.2 FT. 2.8 M — ELEV. 953.2 FT. 290.5 M
SAMPLED: 9.2 FT. 2.8 M — TOP OF ROCK: DEPTH 9.2 FT. 2.8 M — BEGAN CORING: DEPTH 9.2 FT. 2.8 M — FOOTAGE CORED (LF): 10.7 FT. 3.3 M — BOTTOM OF HOLE DEPTH: 19.9 FT. 6.1 M — ELEV. 942.5 FT. 287.3 M
BORING ADVANCED BY: CORING — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M — ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M; LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	1.0	0.30								
		1.0	0.30			S-1	SS	18	2	4	5	9	Sand (F-M), silty, brown (Moist)(Loose)(Decomposed Sandstone)
2.5	0.76			2.5	0.76								
		2.5	0.76										
		3.5	1.07	3.5	1.07	S-2	SS	16	3	5	6	11	DO1 (Medium Dense)
5.0	1.52			5.0	1.52								
		5.0	1.52	6.0	1.83								
		6.0	1.83			S-3	SS	16	5	6	5	11	DO2
7.5	2.29			7.5	2.29								
		7.5	2.29										
				9.2	2.80								AUGER REFUSAL @ 9.2', DRY PRIOR TO CORING
		9.2	2.80			RUN 1 RAN 5.7 REC 4.0 RQD 47%							BEGIN NQ CORING @ 9.2', 100% DWR
10.0	3.05												9.2' to 9.8' Probable side wall drilling, Loss 0.6' Sandstone, calcareous, gray to wea. reddish-brown 11.0' to 11.5' Partial core, open, stained, leached weathered; open cavity 12.4' to 13.0', Loss 0.6'; with open, stained, leached diagonal bedding planes; 14.5' to 14.9', Loss 0.4'
12.5	3.81												
				14.9	4.54								
15.0	4.57	14.9	4.54			RUN 2 RAN 5.0 REC 4.9 RQD 70%							
17.5	5.33												
				19.9	6.07								
20.0	6.10												BORING TERMINATED @ 19.9', 100% DWR

REMARKS: BORING IN 8 FOOT BENCH



amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

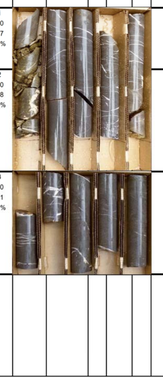
LOG OF BORING B-35, SHEET 1 OF 1

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+220, 18.6 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 6, 2015 — SURFACE ELEV.: 949.6 FT. 289.4 M
REFUSAL: DEPTH 2.0 FT. 0.6 M — ELEV. 947.6 FT. 288.8 M
SAMPLED: NA FT. — TOP OF ROCK: DEPTH 2.0 FT. 0.6 M — BEGAN CORING: DEPTH 2.0 FT. 0.6 M — FOOTAGE CORED (LF): 13.0 FT. 4.0 M — BOTTOM OF HOLE DEPTH: 15.0 FT. 4.6 M — ELEV. 934.6 FT. 284.9 M
BORING ADVANCED BY: CORING — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M — ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M; LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
				2.0	0.61								Clay, sandy, silty, reddish-brown
		2.0	0.61										Auger Refusal @ 2.0', Dry On Completion
2.5	0.76												Begin NQ Coring @ 2.0', 100% DWR
				5.0	1.52	RUN 1 RAN 3.0 REC 2.7 RQD 67%							Sandstone, calcareous, gray, variably weathered. Open stained, leached 3.1 to 3.3; open stained leached with very sandy clay 3.5 to 3.9, Loss 0.3
5.0	1.52	5.0	1.52										
				10.0	3.05	RUN 2 RAN 5.0 REC 4.8 RQD 70%							--- with open, stained diagonal bedding planes; variably stained, leached fractured with open stained diagonal bedding planes 8.8 to 9.8
7.5	2.29												
		10.0	3.05										Lost 0.2 at bottom
10.0	3.05												
				15.0	4.57	RUN 3 RAN 5.0 REC 4.1 RQD 82%							--- with open sand filled cavity 13.5 to 14.4, Loss 0.9
12.5	3.81												
15.0	4.57												
17.5	5.33												
20.0	6.10												BORING TERMINATED AT 15.0' 100% DWL

REMARKS: BORNG ADJACENT TO ROCK OUTCROPS AND SURFACE BOULDERS



amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-37, SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+250, 24.2 m Left — DRY ON COMPLETION ?: YES
DATE: 8-5-2015 TO 8-6-2015 — SURFACE ELEV.: 940.1 FT. 286.5 M
REFUSAL: DEPTH 20.0 FT. 6.1 M — ELEV. 920.1 FT. 280.4 M
SAMPLED: 20.0 FT. 6.1 M — TOP OF ROCK: DEPTH 20.0 FT. 6.1 M — BEGAN CORING: DEPTH 20.0 FT. 6.1 M — FOOTAGE CORED (LF): 14.1 FT. 4.3 M — BOTTOM OF HOLE DEPTH: 34.1 FT. 10.4 M — ELEV. 906.0 FT. 276.1 M
BORING ADVANCED BY: CORING — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M — ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M; LDW AT: DEPTH 20.0 FT. 6.1 M — ELEV. 920.1 FT. 280.4 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
				1.0	0.30								
		1.0	0.30			S-1	SS	14	3	4	5	9	Clay, very sandy, silty, reddish-brown (Moist)(Stiff)
2.5	0.76			2.5	0.76								
		2.5	0.76				A						
		3.5	1.07	3.5	1.07	S-2	SS	14	3	3	4	7	Sand (F-M), silty, clayey, reddish-brown (Moist)(Loose)
5.0	1.52			5.0	1.52								
		5.0	1.52	6.0	1.83		A						
		6.0	1.83			S-3	SS	16	2	4	5	9	DO2 with sandstone fragments (Moist)(Loose)
7.5	2.29			7.5	2.29								
		7.5	2.29				A						
		8.5	2.59	8.5	2.59								
				10.0	3.05	S-4	SS	16	2	4	5	9	Clay, sandy, silty, reddish-brown/ yellowish-brown (Moist)(Stiff)(Decomposed Sandstone/ Siltstone)
10.0	3.05	10.0	3.05										
													Augers down side rock from 10' to 13'
12.5	3.81						A						
				13.5	4.11								
		13.5	4.11										
				15.0	4.57	S-5	SS	16	2	2	2	4	Sand (F-M), clayey, silty, reddish-brown/ yellowish-brown (Moist)(Very Loose) (Decomposed Sandstone/ Siltstone)
15.0	4.57	15.0	4.57										
							A						
17.5	5.33												
				18.5	5.64								
		18.5	5.64										
				20.0	6.10	S-6	SS	16	1	1	2	3	DO5
20.0	6.10												

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-38, SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+691, 19.5 m, Left — DRY ON COMPLETION ?: YES
DATE: August 24, 2015 — SURFACE ELEV.: 905.9 FT. 276.1 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 40.0 FT. 12.2 M — TOP OF ROCK: DEPTH NA FT. M — BEGAN CORING: DEPTH NA FT. M — FOOTAGE CORED (LF): 0.0 FT. 0.0 M — BOTTOM OF HOLE DEPTH: 40.0 FT. 12.2 M — ELEV. 865.9 FT. 263.9 M
BORING ADVANCED BY: — POWER AUGERING X — WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M — ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M — ELEV. FT. M; LDW AT: DEPTH FT. M — ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
							A						
2.5	0.76												Crushed rock to 3.0' (FILL)
				3.0	0.91								
		3.0	0.91	3.5	1.07								
		3.5	1.07										Sand (F-M), silty, yellowish-brown with rock fragment (moist)(Loose)
5.0	1.52			5.0	1.52								
		5.0	1.52				A						
				6.0	1.83								
		6.0	1.83			S-1	SS	1	4	4	5	9	
7.5	2.29			7.5	2.29								Clay, silty, yellowish-brown (Moist)(Stiff)
		7.5	2.29			S-2	SS	18	4	4	5	9	
				8.5	2.59		A						
		8.5	2.59										
				10.0	3.05	S-3	SS	18	3	4	5	9	DO2
10.0	3.05	10.0	3.05										
12.5	3.81						A						
				13.5	4.11								
		13.5	4.11										
				15.0	4.57	S-4	SS	18	3	3	4	7	DO2 to reddish-brown (Medium Stiff)
15.0	4.57	15.0	4.57										
							A						
17.5	5.33												
				18.5	5.64								
		18.5	5.64										
				20.0	6.10	S-5	SS	18	3	3	4	7	DO4
20.0	6.10												

REMARKS: Continued On Page 2.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015 R:_Infrastructure Project Files\2015 Infra Projects\7681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23.RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167M

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-38, SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+691, 19.5 m, Left — DRY ON COMPLETION ?: YES
DATE: August 24, 2015 — SURFACE ELEV.: 905.9 FT. 276.1 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 40.0 FT. 12.2 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 40.0 FT. 12.2 M — ELEV. 865.9 FT. 263.9 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
22.5	6.86	20.0	6.10				A						
25.0	7.62	23.5	7.163	23.5	7.16	S-6	SS	18	2	4	4	8	Clay, silty, tan to reddish-brown (Moist)(Medium Stiff)
		25.0	7.62	25.0	7.62								
27.5	8.38						A						
30.0	9.14	28.5	8.687	28.5	8.69	S-7	SS	18	3	4	4	8	DO6, yellowish-brown
		30.0	9.144	30.0	9.14								
32.5	9.91						A						
35.0	10.67	33.5	10.21	33.5	10.21	S-8	SS	18	3	3	4	7	DO6, sandy, brown
		35.0	10.67	35.0	10.67								
37.5	11.43						A						
40.0	12.19	38.5	11.73	38.5	11.73	S-9	SS	18	3	3	4	7	Silt, sandy, brown (Moist)(Medium Stiff)
				40.0	12.19								

NO REFUSAL @ 40.0, DRY ON COMPLETION

REMARKS:

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LOG OF BORING B-39, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+740, 23 m Left — DRY ON COMPLETION ?: YES
DATE: September 2, 2015 — SURFACE ELEV.: 933.3 FT. 284.5 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 55.0 FT. 16.8 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 55.0 FT. 16.8 M — ELEV. 878.3 FT. 267.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
22.5	6.86	20.0	6.10				A						
25.0	7.62	23.5	7.163	23.5	7.16	S-7	SS	18	5	9	14	23	DO6
		25.0	7.62	25.0	7.62								
27.5	8.38						A						
30.0	9.14	28.5	8.687	28.5	8.69	S-8	SS	18	8	11	15	26	Silt, sandy, slightly clayey, yellowish-brown (moist)(Very Stiff)(Decomposed Siltstone)
		30.0	9.144	30.0	9.14								
32.5	9.91						A						
35.0	10.67	33.5	10.21	33.5	10.21	S-9	SS	18	8	10	11	21	DO8
		35.0	10.67	35.0	10.67								
37.5	11.43						A						
40.0	12.19	38.5	11.73	38.5	11.73	S-10	SS	18	8	12	12	24	DO8
				40.0	12.19								

REMARKS: Continued On Page 3.

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LOG OF BORING B-40, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+769, 23 m Left — DRY ON COMPLETION ?: YES
DATE: September 3, 2015 — SURFACE ELEV.: 937.8 FT. 285.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 55.0 FT. 16.8 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 55.0 FT. 16.8 M — ELEV. 882.8 FT. 269.1 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
		1.0	0.30	1.0	0.30	S-1	SS	12	8	12	17	29	Clay, silty, sandy, reddish-brown (moist)(Very Stiff)
2.5	0.76			2.5	0.76								
		2.5	0.76				A						
		3.5	1.07	3.5	1.07								
5.0	1.52					S-2	SS	15	11	17	19	36	DO1, Hard
		5.0	1.52	5.0	1.52								
				6.0	1.83		A						
		6.0	1.83										
7.5	2.29					S-3	SS	16	8	12	13	25	Sand (F-M), silty, yellowish-brown (moist)(Medium Dense)
		7.5	2.29	7.5	2.29								
							A						
		8.5	2.59	8.5	2.59								
10.0	3.05					S-4	SS	16	8	12	14	26	DO3
		10.0	3.05	10.0	3.05								
						ST-1	ST	18					Pocket Penetrometer 4.25 TSF
		11.5	3.51	11.5	3.51								
12.5	3.81					S-5	SS	16	8	9	11	20	DO3, (Decomposed Sandstone)
		13.0	3.96	13.0	3.96								
							A						
17.5	5.33												
		18.5	5.64	18.5	5.64								
20.0	6.10					S-6	SS	18	9	14	16	30	DO5

REMARKS: Continued On Page 2.
BORING RE-LOCATED 10 METERS SOUTH ON LINE WITH ORIGINAL LOCATION

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-40, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+769, 23 m Left — DRY ON COMPLETION ?: YES
DATE: September 3, 2015 — SURFACE ELEV.: 937.8 FT. 285.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 55.0 FT. 16.8 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 55.0 FT. 16.8 M — ELEV. 882.8 FT. 269.1 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19				A						
42.5	12.95												
							A						
45.0	13.72	43.5	13.26	43.5	13.26	S-11	SS	18	11	14	15	29	DO10
		45.0	13.72	45.0	13.72								
47.5	14.48						A						
50.0	15.24	48.5	14.78	48.5	14.78	S-12	SS	18	14	19	20	39	DO10, Dense
		50.0	15.24	50.0	15.24								
52.5	16.00						A						
55.0	16.76	53.5	16.31	53.5	16.31	S-13	SS	18	9	15	20	35	DO12
				55.0	16.76								
57.5	17.53												BORING TERMINATED @ 55.0' DRY ON COMPLETION
60.0	18.29												

REMARKS:
BORING RE-LOCATED 10 METERS SOUTH ON LINE WITH ORIGINAL LOCATION

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-39, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+740, 23 m Left — DRY ON COMPLETION ?: YES
DATE: September 2, 2015 — SURFACE ELEV.: 933.3 FT. 284.5 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 55.0 FT. 16.8 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 55.0 FT. 16.8 M — ELEV. 878.3 FT. 267.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
		1.0	0.30	1.0	0.30	S-1	SS	10	11	14	22	36	Clay, silty, sandy, reddish-brown (moist)(Hard)
2.5	0.76			2.5	0.76								
		2.5	0.76				A						
		3.5	1.07	3.5	1.07								
5.0	1.52					S-2	SS	12	14	28	28	56	DO1, mottled reddish-brown/ yellowish-brown
		5.0	1.52	5.0	1.52								
				6.0	1.83		A						
		6.0	1.83										
7.5	2.29					S-3	SS	18	11	19	20	39	DO2
		7.5	2.29	7.5	2.29								
							A						
		8.5	2.59	8.5	2.59								
10.0	3.05					S-4	SS	14	7	8	14	22	Silt, sandy, clayey, yellowish-brown (moist)(Very Stiff)
		10.0	3.05	10.0	3.05								
						ST-1	ST	REC 18					Pocket Penetrometer 3.0 TSF
		11.5	3.51	11.5	3.51								
12.5	3.81					S-5	SS	18	10	12	13	25	DO4
		13.0	3.96	13.0	3.96								
							A						
17.5	5.33												
		18.5	5.64	18.5	5.64								
20.0	6.10					S-6	SS	18	9	15	16	31	Sand (F-M), silty, yellowish-brown/ dark brown (moist)(Dense)(Decomposed Sandstone)

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-39, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+740, 23 m Left — DRY ON COMPLETION ?: YES
DATE: September 2, 2015 — SURFACE ELEV.: 933.3 FT. 284.5 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 55.0 FT. 16.8 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 55.0 FT. 16.8 M — ELEV. 878.3 FT. 267.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
													DO8 con't
42.5	12.95	40.0	12.19				A						
							A						
45.0	13.72	43.5	13.26	43.5	13.26	S-11	SS	18	7	9	11	20	Sand (F-M), silty, dark brown/ yellowish-brown (moist)(Medium Dense)(Decomposed Sandstone)
		45.0	13.72	45.0	13.72								
47.5	14.48						A						
50.0	15.24	48.5	14.78	48.5	14.78	S-12	SS	18	8	11	11	22	DO11
		50.0	15.24	50.0	15.24								
52.5	16.00						A						
55.0	16.76	53.5	16.31	53.5	16.31	S-13	SS	18	13	20	25	45	DO11, (Dense)
				55.0	16.76								
57.5	17.53												BORING TERMINATED @ 55.0' DRY ON COMPLETION
60.0	18.29												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-40, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+769, 23 m Left — DRY ON COMPLETION ?: YES
DATE: September 3, 2015 — SURFACE ELEV.: 937.8 FT. 285.8 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 55.0 FT. 16.8 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 55.0 FT. 16.8 M — ELEV. 882.8 FT. 269.1 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10				A						
22.5	6.86												
				23.5	7.16		A						
25.0	7.62	23.5	7.163			S-7	SS	18	9	14	25	39	DO5, Dense
		25.0	7.62	25.0	7.62								
27.5	8.38						A						
				28.5	8.69								
30.0	9.14	28.5	8.687			S-8	SS	18	9	14	21	35	DO7
		30.0	9.144	30.0	9.14								
32.5	9.91						A						
				33.5	10.21								
35.0	10.67	33.5	10.21			S-9	SS	19	9	14	17	31	DO7
		35.0	10.67	35.0	10.67								
37.5	11.43						A						
				38.5	11.73								
40.0	12.19	38.5	11.73			S-10	SS	18	3	10	14	24	Sand (F-M), silty, yellowish-brown/ brown (moist)(Medium Dense)(Decomposed Sandstone)
				40.0	12.19								

REMARKS: Continued On Page 3.
BORING RE-LOCATED 10 METERS SOUTH ON LINE WITH ORIGINAL LOCATION

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-41, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5-806, 23.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 23, 2015 — SURFACE ELEV.: 943.7 FT. 287.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 60.0 FT. 18.3 M — ELEV. 883.7 FT. 269.4 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
		1.0	0.30	1.0	0.30	S-1	SS	16	3	3	4	7	Clay, sandy, silty, reddish-brown (Moist)(Medium Stiff)
2.5	0.76			2.5	0.76								
		2.5	0.76				A						
		3.5	1.07	3.5	1.07								
5.0	1.52					S-2	SS	16	4	6	7	13	DO1 (Stiff)
		5.0	1.52	5.0	1.52								
				6.0	1.83		A						
		6.0	1.83										
7.5	2.29					S-3	SS	16	4	4	9	13	DO2
		7.5	2.29	7.5	2.29								
							A						
		8.5	2.59	8.5	2.59								
10.0	3.05					S-4	SS	14	5	5	6	11	DO2
		10.0	3.05	10.0	3.05								
						ST-1	ST	24					Pocket Penetrometer 4.5 TSF
				12.0	3.66								
12.5	3.81	12.0	3.66			S-5	SS	14	4	6	7	13	Sand (M-F), silty, clayey, reddish-brown (Moist)(Medium Dense)
		13.5	4.11	13.5	4.11								
15.0	4.57												
							A						
17.5	5.33												
		18.5	5.64	18.5	5.64								
20.0	6.10					S-6	SS	16	4	4	5	9	Clay, very sandy, very silty, yellowish-brown/reddish-brown (Moist)(Stiff)
				20.0	6.10								

REMARKS: Continued On Page 2.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\7681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23.RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167N

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-41, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5-806, 23.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 23, 2015 — SURFACE ELEV.: 943.7 FT. 287.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 60.0 FT. 18.3 M — ELEV. 883.7 FT. 269.4 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										DO6
22.5	6.86						A						
		23.5	7.163	23.5	7.16								
25.0	7.62	25.0	7.62	25.0	7.62	S-7	SS	18	4	4	5	9	Sand (F-M), silty, dark brown mottled yellowish-brown (Moist)(Loose)
27.5	8.38						A						
		28.5	8.687	28.5	8.69								
30.0	9.14	30.0	9.144	30.0	9.14	S-8	SS	16	8	8	12	20	DO7 (Moist)(Medium Dense)
32.5	9.91						A						
		33.5	10.21	33.5	10.21								
35.0	10.67	35.0	10.67	35.0	10.67	S-9	SS	14	5	6	8	14	Clay, very silty, sandy, yellowish-brown mottled brown/reddish-brown (Moist)(Stiff) (Decomposed Siltstone/ Sandstone)
37.5	11.43						A						
		38.5	11.73	38.5	11.73								
40.0	12.19			40.0	12.19	S-10	SS	16	4	6	5	11	Sand (F-M), silty, clayey, dark brown mottled yellowish-brown (Moist)(Medium Dense) (Decomposed Sandstone/ Siltstone)

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-42, SHEET 1 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+830, 22.5 m Left — DRY ON COMPLETION ?: YES
DATE: 7/23/2015 TO 7/24/2015 — SURFACE ELEV.: 943.7 FT. 287.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 868.7 FT. 264.8 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
		1.0	0.30	1.0	0.30								
		1.0	0.30			S-1	SS	16	4	4	5	9	Clay, sandy, silty, reddish-brown (Moist)(Stiff)
2.5	0.76						A						
		2.5	0.76	2.5	0.76								
		3.5	1.07	3.5	1.07								
5.0	1.52	3.5	1.07			S-2	SS	14	4	5	6	11	DO1
		5.0	1.52	5.0	1.52								
		6.0	1.83	6.0	1.83		A						
7.5	2.29					S-3	SS	14	3	6	8	14	DO1
		7.5	2.29	7.5	2.29								
		8.5	2.59	8.5	2.59		A						
10.0	3.05					S-4	SS	12	3	6	7	13	DO1
		10.0	3.05	10.0	3.05								
						ST-1	ST	24					Pocket Penetrometer 4.0 TSF
				12.0	3.66								
12.5	3.81	12.0	3.66										
				13.5	4.11	S-5	SS	14	4	6	11	17	DO1 (Very Stiff)
		13.5	4.11										
15.0	4.57						A						
17.5	5.33												
		18.5	5.64	18.5	5.64								
				20.0	6.10	S-6	SS	16	4	6	7	13	Sand (M-F), silty, reddish-brown/ yellowish-brown (Moist)(Medium Dense)(Decomposed Sandstone/ Siltstone)
20.0	6.10												

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-42, SHEET 3 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+830, 22.5 m Left — DRY ON COMPLETION ?: YES
DATE: 7/23/2015 TO 7/24/2015 — SURFACE ELEV.: 943.7 FT. 287.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 868.7 FT. 264.8 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19				A						
42.5	12.95												
		43.5	13.26	43.5	13.26								
45.0	13.72	45.0	13.72	45.0	13.72	S-11	SS	16	5	6	8	14	DO9
47.5	14.48						A						
		48.5	14.78	48.5	14.78								
50.0	15.24	50.0	15.24	50.0	15.24	S-12	SS	18	2	3	4	7	DO11, (loose)
52.5	16.00						A						
		53.5	16.31	53.5	16.31								
55.0	16.76	55.0	16.76	55.0	16.76	S-13	SS	16	5	7	8	15	DO12 (Medium Dense)
57.5	17.53						A						
		58.5	17.83	58.5	17.83								
60.0	18.29			60.0	18.29	S-14	SS	16	6	9	7	16	Clay, very silty, slightly sandy, yellowish-brown (moist)(Very Stiff)(Decomposed Siltstone)

REMARKS: Continued On Page 4.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-43, SHEET 1 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+860, 23.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 24, 2015 — SURFACE ELEV.: 948.9 FT. 289.2 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 873.9 FT. 266.4 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						Clay, sandy, silty, reddish-brown
		1.0	0.30	1.0	0.30								
		1.0	0.30			S-1	SS	14	3	4	5	9	Clay, sandy, silty, reddish-brown (Moist)(Stiff)
2.5	0.76						A						
		2.5	0.76	2.5	0.76								
		3.5	1.07	3.5	1.07								
5.0	1.52	3.5	1.07			S-2	SS	14	3	5	7	12	DO1
		5.0	1.52	5.0	1.52								
		6.0	1.83	6.0	1.83		A						
7.5	2.29					S-3	SS	16	5	7	8	15	DO1
		7.5	2.29	7.5	2.29								
		8.5	2.59	8.5	2.59		A						
10.0	3.05					S-4	SS	12	4	6	7	13	Sand, silty, clayey, brown (Moist)(Medium Dense)
		10.0	3.05	10.0	3.05								
						ST-1	ST	24					Pocket Penetrometer 4.5 TSF
				12.0	3.66								
12.5	3.81	12.0	3.66										
				13.5	4.11	S-5	SS	12	4	3	3	6	DO4 (Loose)
		13.5	4.11										
15.0	4.57						A						
17.5	5.33												
		18.5	5.64	18.5	5.64								
				20.0	6.10	S-6	SS	16	4	6	8	14	DO5 (Medium Dense)
20.0	6.10												

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-41, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5-806, 23.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 23, 2015 — SURFACE ELEV.: 943.7 FT. 287.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 60.0 FT. 18.3 M — ELEV. 883.7 FT. 269.4 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		40.0	12.19				A						
42.5	12.95												
		43.5	13.26	43.5	13.26								
45.0	13.72	45.0	13.72	45.0	13.72	S-11	SS	18	2	3	4	7	DO10, loose
47.5	14.48						A						
		48.5	14.78	48.5	14.78								
50.0	15.24	50.0	15.24	50.0	15.24	S-12	SS	18	5	5	7	12	DO10
52.5	16.00						A						
		53.5	16.31	53.5	16.31								
55.0	16.76	55.0	16.76	55.0	16.76	S-13	SS	18	6	11	14	25	DO10
57.5	17.53						A						
		58.5	17.83	58.5	17.83								
60.0	18.29			60.0	18.29	S-14	SS	18	3	4	5	9	DO13 (wet)(Loose) (Decomposed Sandstone/ Siltstone)

NO REFUSAL @ 60.0', DRY ON COMPLETION

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-42, SHEET 2 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+830, 22.5 m Left — DRY ON COMPLETION ?: YES
DATE: 7/23/2015 TO 7/24/2015 — SURFACE ELEV.: 943.7 FT. 287.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 868.7 FT. 264.8 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10				A						
22.5	6.86												
		23.5	7.163	23.5	7.16								
25.0	7.62	25.0	7.62	25.0	7.62	S-7	SS	16	3	4	5	9	Sand (M-F), silty, reddish-brown (moist)(Loose)(Decomposed Sandstone)
27.5	8.38						A						
		28.5	8.687	28.5	8.69								
30.0	9.14	30.0	9.144	30.0	9.14	S-8	SS	18	2	3	5	8	DO7 yellowish-brown
32.5	9.91						A						
		33.5	10.21	33.5	10.21								
35.0	10.67	35.0	10.67	35.0	10.67	S-9	SS	16	4	5	6	11	DO8, (Medium Dense)
37.5	11.43						A						
		38.5	11.73	38.5	11.73								
40.0	12.19			40.0	12.19	S-10	SS	16	5	6	6	12	DO9

REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-42, SHEET 4 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+830, 22.5 m Left — DRY ON COMPLETION ?: YES
DATE: 7/23/2015 TO 7/24/2015 — SURFACE ELEV.: 943.7 FT. 287.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 868.7 FT. 264.8 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		60.0	18.29				A						
62.5	19.05												
		63.5	19.35	63.5	19.35								
65.0	19.81	65.0	19.81	65.0	19.81	S-15	SS	16	4	5	5	10	Sand (M-F), silty, dark brown (Moist)(Loose)(Decomposed Sandstone)
67.5	20.57						A						
		68.5	20.88	68.5	20.88								
70.0	21.33	70.0	21.34	70.0	21.34	S-16	SS	18	2	2	3	5	DO15 (wet)
72.5	22.10						A						
		73.5	22.4	73.5	22.40								
75.0	22.86			75.0	22.86	S-17	SS	18	3	5	6	11	DO15, (Medium Dense)
77.5	23.62												NO REFUSAL @ 75.0 DRY ON COMPLETION
80.0	24.38												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-43, SHEET 2 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+860, 23.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 24, 2015 — SURFACE ELEV.: 948.9 FT. 289.2 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 873.9 FT. 266.4 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		20.0	6.10				A						
22.5	6.86												
		23.5	7.163	23.5	7.16								
25.0	7.62	25.0	7.62	25.0	7.62	S-7	SS	14	2	3	3	6	DO5 (Loose)
27.5	8.38						A						
		28.5	8.687	28.5	8.69								
30.0	9.14	30.0	9.144	30.0	9.14	S-8	SS	16	3	5	5	10	DO7
32.5	9.91						A						
		33.5	10.21	33.5	10.21								
35.0	10.67	35.0	10.67	35.0	10.67	S-9	SS	16	2	3	4	7	DO7 (Decomposed Sandstone)
37.5	11.43						A						
		38.5	11.73	38.5	11.73								
40.0	12.19			40.0	12.19	S-10	SS	16	5	5	5	10	DO9

REMARKS: Continued On Page 3.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS RETAINING WALLS NO. 7 AND 8

SCALE: AS NOTED

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

R:_Infrastructure Project Files\2015 Infra Projects\Y681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT 9/9/2015

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	1670

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-43, SHEET 3 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+860, 23.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 24, 2015 — SURFACE ELEV.: 948.9 FT. 289.2 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 873.9 FT. 266.4 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19										
		43.5	13.26	43.5	13.26	S-11	SS	18	2	6	8	14	DO9, (Medium Dense)
45.0	13.72	45.0	13.72	45.0	13.72								
47.5	14.48												
		48.5	14.78	48.5	14.78	S-12	SS	14	4	7	7	14	DO11
50.0	15.24	50.0	15.24	50.0	15.24								
52.5	16.00												
		53.5	16.31	53.5	16.31	S-13	SS	18	5	7	9	16	DO11
55.0	16.76	55.0	16.76	55.0	16.76								
57.5	17.53												
		58.5	17.83	58.5	17.83	S-14	SS	18	7	9	10	19	Sand (F), very silty to slightly clayey, light yellowish-brown to dark brown (Moist)(Medium Dense) (Decomposed Siltstone/ Sandstone)
60.0	18.29			60.0	18.29								

REMARKS: Continued On Page 4.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-44, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+890, 20.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 21, 2015 — SURFACE ELEV.: 929.4 FT. 283.3 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 60.0 FT. 18.3 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 60.0 FT. 18.3 M — ELEV. 869.4 FT. 265.0 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	1.0	0.30		A						Asphalt/ Clay, sandy, silty, reddish-brown (Fill)
2.5	0.76	1.0	0.30	2.5	0.76	S-1	SS	12	2	2	2	4	Clay, sandy, silty, reddish-brown with asphalt fragments (Moist)(Soft)(Fill)
5.0	1.52	2.5	0.76	3.5	1.07	S-2	SS	14	2	4	5	9	Clay, very sandy, silty, reddish-brown (Moist)(Stiff)
7.5	2.29	5.0	1.52	6.0	1.83	S-3	SS	16	3	3	4	7	Sand (F-M), silty, reddish-brown (moist)(Loose)
10.0	3.05	7.5	2.29	8.5	2.59	S-4	SS	16	5	3	4	7	DO3
12.5	3.81	10.0	3.05	13.5	4.11	S-5	SS	16	2	3	2	5	DO3
15.0	4.57	15.0	4.57	18.5	5.64	S-6	SS	16	2	2	3	5	DO3
17.5	5.33												
20.0	6.10			20.0	6.10								

REMARKS: **BORING LOCATED IN 10' TO 20' CUT OF RAZED HOUSE.**
Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-44, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+890, 26.7 m Left — DRY ON COMPLETION ?: YES
DATE: July 21, 2015 — SURFACE ELEV.: 929.4 FT. 283.3 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 60.0 FT. 18.3 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 60.0 FT. 18.3 M — ELEV. 869.4 FT. 265.0 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19										
		43.5	13.26	43.5	13.26	S-11	SS	18	5	5	7	12	Sand (F-M), silty, dark brown to light brown with sandstone fragments at tip (Moist)(Medium Dense)(Decomposed Sandstone)
45.0	13.72	45.0	13.72	45.0	13.72								
47.5	14.48												
		48.5	14.78	48.5	14.78	S-12	SS	18	4	4	5	9	DO11, (loose)
50.0	15.24	50.0	15.24	50.0	15.24								
52.5	16.00												
		53.5	16.31	53.5	16.31	S-13	SS	16	3	4	5	9	DO12
55.0	16.76	55.0	16.76	55.0	16.76								
57.5	17.53												
		58.5	17.83	58.5	17.83	S-14	SS	16	6	8	9	17	Sand (F), silty, dark brown with sandstone fragments (Moist)(Medium Dense)(Decomposed Sandstone) NO REFUSAL @ 60.0', DRY ON COMPLETION
60.0	18.29			60.0	18.29								

REMARKS: BORING LOCATED IN 10' TO 20' CUT OF RAZED HOUSE.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-46, SHEET 1 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+950, 26.0 m Left — DRY ON COMPLETION ?: YES
DATE: 7/28/2015 TO 7/29/2015 — SURFACE ELEV.: 944.7 FT. 287.9 M
REFUSAL: DEPTH 66.5 FT. 20.3 M — ELEV. 878.2 FT. 267.7 M
SAMPLED: 66.5 FT. 20.3 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 66.5 FT. 20.3 M — ELEV. 878.2 FT. 267.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	1.0	0.30		A						
2.5	0.76	1.0	0.30	2.5	0.76	S-1	SS	16	2	3	4	7	Clay, sandy, silty, reddish-brown (Moist)(Medium Stiff)
5.0	1.52	2.5	0.76	3.5	1.07	S-2	SS	16	2	3	3	6	DO1
7.5	2.29	5.0	1.52	6.0	1.83	S-3	SS	16	2	6	8	14	DO1, (stiff)
10.0	3.05	7.5	2.29	8.5	2.59	S-4	SS	14	3	5	6	11	DO3
		10.0	3.05	12.0	3.66	ST-1	ST	24					Pocket Penetrometer 4.5+ TSF
12.5	3.81	12.0	3.66	13.5	4.11	S-5	SS	18	6	4	4	8	Sand (F-M), silty, reddish-brown (moist)(Loose)
15.0	4.57	13.5	4.11										
17.5	5.33												
		18.5	5.64	18.5	5.64								
20.0	6.10			20.0	6.10	S-6	SS	14	3	4	5	9	DO5

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-43, SHEET 4 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+860, 23.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 24, 2015 — SURFACE ELEV.: 948.9 FT. 289.2 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 873.9 FT. 266.4 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
62.5	19.05	60.0	18.29										
		63.5	19.35	63.5	19.35	S-15	SS	14	6	9	9	18	DO14
65.0	19.81	65.0	19.81	65.0	19.81								
67.5	20.57												
		68.5	20.88	68.5	20.88	S-16	SS	16	5	7	9	16	DO14
70.0	21.33	70.0	21.34	70.0	21.34								
72.5	22.10												
		73.5	22.4	73.5	22.40	S-17	SS	16	6	8	10	18	DO14
75.0	22.86			75.0	22.86								
77.5	23.62												NO REFUSAL @ 75.0' DRY ON COMPLETION
80.0	24.38												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-44, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+890, 20.0 m Left — DRY ON COMPLETION ?: YES
DATE: July 21, 2015 — SURFACE ELEV.: 929.4 FT. 283.3 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 60.0 FT. 18.3 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 60.0 FT. 18.3 M — ELEV. 869.4 FT. 265.0 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
22.5	6.86	20.0	6.10										
		23.5	7.163	23.5	7.16	S-7	SS	16	2	3	2	5	DO3
25.0	7.62	25.0	7.62	25.0	7.62								
27.5	8.38												
		28.5	8.687	28.5	8.69	S-8	SS	16	4	2	3	5	DO3
30.0	9.14	30.0	9.144	30.0	9.14								
32.5	9.91												
		33.5	10.21	33.5	10.21	S-9	SS	14	3	2	3	5	DO3
35.0	10.67	35.0	10.67	35.0	10.67								
37.5	11.43												
		38.5	11.73	38.5	11.73	S-10	SS	18	3	5	5	10	DO3
40.0	12.19			40.0	12.19								

REMARKS: BORING LOCATED IN 10' TO 20' CUT OF RAZED HOUSE.
Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-45, SHEET 1 OF 1

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+920, 26.7 m Left — DRY ON COMPLETION ?: YES
DATE: July 28, 2015 — SURFACE ELEV.: 938.9 FT. 286.2 M
REFUSAL: DEPTH 3.5 FT. 1.1 M — ELEV. 935.4 FT. 285.1 M
SAMPLED: 3.5 FT. 1.1 M
TOP OF ROCK: DEPTH 3.5 FT. 1.1 M — ELEV. 935.4 FT. 285.1 M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 3.5 FT. 1.1 M — ELEV. 935.4 FT. 285.1 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00	1.0	0.30		A						Weathered Sandstone On West Cut Slope
2.5	0.76	1.0	0.30	2.5	0.76	S-1	SS	14	2	4	4	8	Sand (F-M), silty, dark brown (moist)(Loose)(Decomposed Sandstone)
		2.5	0.76	3.5	1.07	S-2	SS	0	50/0			50/0	
5.0	1.52												AUGER REFUSAL @ 3.5' DRY ON COMPLETION
7.5	2.29												
10.0	3.05												
12.5	3.81												
15.0	4.57												
17.5	5.33												
20.0	6.10												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-46, SHEET 2 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+950, 26.0 m Left — DRY ON COMPLETION ?: YES
DATE: 7/28/2015 TO 7/29/2015 — SURFACE ELEV.: 944.7 FT. 287.9 M
REFUSAL: DEPTH 66.5 FT. 20.3 M — ELEV. 878.2 FT. 267.7 M
SAMPLED: 66.5 FT. 20.3 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 66.5 FT. 20.3 M — ELEV. 878.2 FT. 267.7 M
BORING ADVANCED BY: POWER AUGERING X WASHBORING

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M — AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M — LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
22.5	6.86	20.0	6.10										
		23.5	7.163	23.5	7.16	S-7	SS	12	4	4	5	9	Sand (F-M), slightly silty, dark brown with sandstone fragments (moist)(Loose)(Decomposed Sandstone)
25.0	7.62	25.0	7.62	25.0	7.62								
27.5	8.38												
		28.5	8.687	28.5	8.69	S-8	SS	12	5	7	8	15	DO7, (Medium Dense)
30.0	9.14	30.0	9.144	30.0	9.14								
32.5	9.91												
		33.5	10.21	33.5	10.21	S-9	SS	14	6	7	9	16	DO8
35.0	10.67	35.0	10.67	35.0	10.67								
37.5	11.43												
		38.5	11.73	38.5	11.73	S-10	SS	16	5	5	5	10	DO8
40.0	12.19			40.0	12.19								

REMARKS: Continued On Page 3.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

R:_Infrastructure Project Files\2015 Infra Projects\Y681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT
9/9/2015

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167P

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-46, SHEET 3 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+950, 26.0 m Left — DRY ON COMPLETION ?: YES
DATE: 7/28/2015 TO 7/29/2015 — SURFACE ELEV.: 944.7 FT. 287.9 M
REFUSAL: DEPTH 66.5 FT. 20.3 M — ELEV. 878.2 FT. 267.7 M
SAMPLED: 66.5 FT. 20.3 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 66.5 FT. 20.3 M — ELEV. 878.2 FT. 267.7 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19										
				43.5	13.26		A						
45.0	13.72	43.5	13.26	45.0	13.72	S-11	SS	18	7	8	8	16	DO8
47.5	14.48	45.0	13.72				A						
				48.5	14.78								
50.0	15.24	48.5	14.78	50.0	15.24	S-12	SS	16	5	5	6	11	DO8
52.5	16.00	50.0	15.24				A						
				53.5	16.31								
55.0	16.76	53.5	16.31	55.0	16.76	S-13	SS	18	5	6	7	13	DO8
57.5	17.53	55.0	16.76				A						
				58.5	17.83								
60.0	18.29	58.5	17.83	60.0	18.29	S-14	SS	14	4	4	5	9	DO8

REMARKS: Continued On Page 4.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-47, SHEET 1 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+980, 29.5 m Left — DRY ON COMPLETION ?: YES
DATE: 7/29/2015 TO 7/30/2015 — SURFACE ELEV.: 960.1 FT. 292.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 885.1 FT. 269.8 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
				1.0	0.30								
		1.0	0.30			S-1	SS	12	2	2	3	5	Clay, sandy, silty, reddish-brown (Moist)(Medium Stiff)
2.5	0.76			2.5	0.76								
		2.5	0.76				A						
				3.5	1.07								
		3.5	1.07			S-2	SS	12	2	3	4	7	DO1
5.0	1.52			5.0	1.52								
		5.0	1.52				A						
				6.0	1.83								
		6.0	1.83			S-3	SS	16	4	8	11	19	DO1 (Very Stiff)
7.5	2.29			7.5	2.29								
		7.5	2.29				A						
				8.5	2.59								
		8.5	2.59			S-4	SS	12	3	7	9	16	DO3
10.0	3.05			10.0	3.05								
		10.0	3.05			ST-1	ST	24					Pocket Penetrometer 3.5 TSF
				12.0	3.66								
12.5	3.81												
		12.0	3.66										
				13.5	4.11								
		13.5	4.11			S-5	SS	16	4	4	4	8	Sand (F-M), silty, brown (Moist)(Loose)
15.0	4.57												
							A						
17.5	5.33												
				18.5	5.64								
		18.5	5.64										
20.0	6.10			20.0	6.10	S-6	SS	18	4	5	5	10	DO5, variably clayey

REMARKS: BORING LOCATED IN 8 FOOT BENCH CUT
Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-47, SHEET 3 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+980, 29.5 m Left — DRY ON COMPLETION ?: YES
DATE: 7/29/2015 TO 7/30/2015 — SURFACE ELEV.: 960.1 FT. 292.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 885.1 FT. 269.8 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19										
				43.5	13.26		A						
45.0	13.72	43.5	13.26	45.0	13.72	S-11	SS	18	5	5	6	11	DO8
47.5	14.48	45.0	13.72				A						
				48.5	14.78								
50.0	15.24	48.5	14.78	50.0	15.24	S-12	SS	18	4	8	5	13	DO8
52.5	16.00	50.0	15.24				A						
				53.5	16.31								
55.0	16.76	53.5	16.31	55.0	16.76	S-13	SS	16	5	7	6	13	DO8
57.5	17.53	55.0	16.76				A						
				58.5	17.83								
60.0	18.29	58.5	17.83	60.0	18.29	S-14	SS	8	3	3	5	8	DO8, (loose)

REMARKS: BORING LOCATED IN 8 FOOT BENCH CUT
Continued On Page 4.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-48, SHEET 1 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+010, 38.1 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 7/30/2015-7/31/2015 — SURFACE ELEV.: 989.5 FT. 301.6 M
REFUSAL: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
SAMPLED: 53.0 FT. 16.2 M
TOP OF ROCK: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
BEGAN CORING: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
FOOTAGE CORED (LF): 25.0 FT. 7.6 M
BOTTOM OF HOLE: DEPTH 78.0 FT. 23.8 M — ELEV. 911.5 FT. 277.8 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
				1.0	0.30								
		1.0	0.30			S-1	SS	14	4	5	7	12	Clay, sandy, silty, reddish-brown (Moist)(Stiff)
2.5	0.76			2.5	0.76								
		2.5	0.76				A						
				3.5	1.07								
		3.5	1.07			S-2	SS	14	4	4	5	9	DO1
5.0	1.52			5.0	1.52								
		5.0	1.52				A						
				6.0	1.83								
		6.0	1.83			S-3	SS	18	5	7	10	17	DO1, very stiff
7.5	2.29			7.5	2.29								
		7.5	2.29				A						
				8.5	2.59								
		8.5	2.59			S-4	SS	16	4	5	6	11	DO1
10.0	3.05			10.0	3.05								
		10.0	3.05			ST-1	ST	24					Pocket Penetrometer 4.5+ TSF
				12.0	3.66								
12.5	3.81												
		12.0	3.66										
				13.5	4.11								
		13.5	4.11			S-5	SS	14	6	9	9	18	Sand (F-M), silty, variably clayey, reddish-brown (Moist)(Medium Dense)
15.0	4.57												
							A						
17.5	5.33												
				18.5	5.64								
		18.5	5.64										
20.0	6.10			20.0	6.10	S-6	SS	18	4	5	5	10	DO5, (loose) (Decomposed Sandstone/ Siltstone)

REMARKS: BORNG LOCATED IN 6 FOOT CUT
Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-46, SHEET 4 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+950, 26.0 m Left — DRY ON COMPLETION ?: YES
DATE: 7/28/2015 TO 7/29/2015 — SURFACE ELEV.: 944.7 FT. 287.9 M
REFUSAL: DEPTH 66.5 FT. 20.3 M — ELEV. 878.2 FT. 267.7 M
SAMPLED: 66.5 FT. 20.3 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 66.5 FT. 20.3 M — ELEV. 878.2 FT. 267.7 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
62.5	19.05	60.0	18.29										
				63.5	19.35		A						
65.0	19.81	63.5	19.35	65.0	19.81	S-15	SS	8	8	50/.3		50/.3	DO8
67.5	20.57	65.0	19.81				A						
				66.5	20.27								
70.0	21.33												AUGER REFUSAL @ 66.5' DRY ON COMPLETION
72.5	22.10												
75.0	22.86												
77.5	23.62												
80.0	24.38												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-47, SHEET 2 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+980, 29.5 m Left — DRY ON COMPLETION ?: YES
DATE: 7/29/2015 TO 7/30/2015 — SURFACE ELEV.: 960.1 FT. 292.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 885.1 FT. 269.8 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10				A						
22.5	6.86												
				23.5	7.16								
		23.5	7.163			S-7	SS	18	5	5	5	10	DO5
25.0	7.62			25.0	7.62								
		25.0	7.62				A						
27.5	8.38												
				28.5	8.69								
		28.5	8.687			S-8	SS	16	3	6	6	12	Sand (F-M), silty, yellowish-brown with numerous sandstone fragments (Moist)(Medium Dense) (Decomposed Sandstone)
30.0	9.14			30.0	9.14								
		30.0	9.144				A						
32.5	9.91												
				33.5	10.21								
		33.5	10.21			S-9	SS	16	4	6	6	12	DO8
35.0	10.67			35.0	10.67								
		35.0	10.67				A						
37.5	11.43												
				38.5	11.73								
		38.5	11.73			S-10	SS	16	7	5	7	12	DO8
40.0	12.19			40.0	12.19								

REMARKS: BORING LOCATED IN 8 FOOT BENCH CUT
Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-47, SHEET 4 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 5+980, 29.5 m Left — DRY ON COMPLETION ?: YES
DATE: 7/29/2015 TO 7/30/2015 — SURFACE ELEV.: 960.1 FT. 292.6 M
REFUSAL: DEPTH NA FT. M — ELEV. FT. M
SAMPLED: 75.0 FT. 22.9 M
TOP OF ROCK: DEPTH NA FT. M — ELEV. FT. M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 75.0 FT. 22.9 M — ELEV. 885.1 FT. 269.8 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
62.5	19.05	60.0	18.29										
				63.5	19.35		A						
65.0	19.81	63.5	19.35	65.0	19.81	S-15	SS	18	4	7	7	14	DO8
67.5	20.57	65.0	19.81				A						
				68.5	20.88								
70.0	21.33	68.5	20.88	70.0	21.34	S-16	SS	16	7	9	10	19	DO8
72.5	22.10	70.0	21.34				A						
				73.5	22.40								
		73.5	22.4			S-17	SS	16	8	10	11	21	DO8
75.0	22.86			75.0	22.86								
77.5	23.62												NO REFUSAL @ 75.0' DRY ON COMPLETION
80.0	24.38												

REMARKS: BORING LOCATED IN 8 FOOT BENCH CUT

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-48, SHEET 2 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+010, 38.1 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 7/30/2015-7/31/2015 — SURFACE ELEV.: 989.5 FT. 301.6 M
REFUSAL: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
SAMPLED: 53.0 FT. 16.2 M
TOP OF ROCK: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
BEGAN CORING: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
FOOTAGE CORED (LF): 25.0 FT. 7.6 M
BOTTOM OF HOLE: DEPTH 78.0 FT. 23.8 M — ELEV. 911.5 FT. 277.8 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION DEPTH FT. M; ELEV. FT. M; AFTER 24 HRS. DEPTH FT. M; ELEV. FT. M; LDW AT: DEPTH FT. M; ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10				A						
22.5	6.86												
				23.5	7.16								
		23.5	7.163			S-7	SS	16	3	3	5	8	DO6
25.0	7.62			25.0	7.62								
		25.0	7.62				A						
27.5	8.38												
				28.5	8.69								
		28.5	8.687			S-8	SS	16	3	3	3	6	Sand (F-M), slightly silty, brown (moist)(Loose)(Decomposed Sandstone)
30.0	9.14			30.0	9.14								
		30.0	9.144				A						
32.5	9.91												
				33.5	10.21								
		33.5	10.21			S-9	SS	18	3	3	3	6	DO8
35.0	10.67			35.0	10.67								
		35.0	10.67				A						
37.5	11.43												
				38.5	11.73								
		38.5	11.73			S-10	SS	18	3	5	5	10	DO8
40.0	12.19			40.0	12.19								

REMARKS: BORING LOCATED IN 6 FOOT CUT
Continued On Page 3.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\Y681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167q

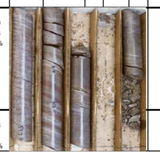
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-48, SHEET 3 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+010, 38.1 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 7/30/2015-7/31/2015 — SURFACE ELEV.: 989.5 FT. 301.6 M
REFUSAL: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
SAMPLED: 53.0 FT. 16.2 M
TOP OF ROCK: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
BEGAN CORING: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
FOOTAGE CORED (LF): 25.0 FT. 7.6 M
BOTTOM OF HOLE: DEPTH 78.0 FT. 23.8 M — ELEV. 911.5 FT. 277.8 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19										
		43.5	13.26	43.5	13.26								
45.0	13.72	45.0	13.72	45.0	13.72	S-11	SS	14	3	4	4	8	DO8
47.5	14.48												
		48.5	14.78	48.5	14.78								
50.0	15.24	50.0	15.24	50.0	15.24	S-12	SS	16	4	5	7	12	Sand (F-M), slightly silty, dark brown/ yellowish-brown with sandstone fragments (moist) med dense (Decomposed Sandstone/ Siltstone)
52.5	16.00			53.0	16.15								AUGER REFUSAL @ 53.0' BEGIN NQ CORING @ 53.0', 100% DWR
		53.0	16.15			RUN 1 RAN 5.0 REC 2.3 RQD 10%							
55.0	16.76												Sandstone, calcareous, siliceous, gray, variably stained, leached with open stained bedding planes. Loss 2.4' 53.6' to 56.1'
57.5	17.53			58.0	17.68								
		58.0	17.68			RUN 2 RAN 4.8 REC 5.1 RQD 92%							
60.0	18.29			60.0	18.29								q_u=136.6 MPa, γ=26.83 kN/m^3



REMARKS: BORING LOCATED IN 6 FOOT CUT
Continued On Page 4.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-49, SHEET 1 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+070, 46.6 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-14-2015 TO 8-19-2015 — SURFACE ELEV.: 1019.5 FT. 310.7 M
REFUSAL: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
SAMPLED: 48.5 FT. 14.8 M
TOP OF ROCK: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
BEGAN CORING: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
FOOTAGE CORED (LF): 36.0 FT. 11.0 M
BOTTOM OF HOLE: DEPTH 84.5 FT. 25.8 M — ELEV. 935.0 FT. 285.0 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 65.0 FT. 19.8 M, ELEV. 954.5 FT. 290.9 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
				1.0	0.30								
		1.0	0.30			S-1	SS	12	2	2	3	5	Sand (F-M), clayey, silty, reddish-brown (Moist)(Very Loose)
2.5	0.76			2.5	0.76								
		2.5	0.76				A						
				3.5	1.07								
		3.5	1.07										
				5.0	1.52	S-2	SS	14	2	3	3	6	Clay, very sandy, silty, reddish-brown (Moist)(Medium Stiff)
5.0	1.52	5.0	1.52										
				6.0	1.83		A						
		6.0	1.83										
				7.5	2.29	S-3	SS	18	5	4	5	9	DO2 (Moist)(Stiff)
7.5	2.29						A						
		7.5	2.29										
				8.5	2.59								
		8.5	2.59										
				10.0	3.05	S-4	SS	14	3	4	4	8	DO2 (Moist)(Medium Stiff)
10.0	3.05												
		10.0	3.05			ST-1	ST	24					Pocket Penetrometer 4.0 TSF
				12.0	3.66								
12.5	3.81												
		12.0	3.66										
				13.5	4.11	S-5	SS	18	2	2	3	5	Sand (F-M), silty, brown to dark brown (moist)(Very Loose)
15.0	4.57												
		13.5	4.11										
							A						
17.5	5.33												
				18.5	5.64								
		18.5	5.64										
20.0	6.10			20.0	6.10	S-6	SS	14	4	3	4	7	DO5, slightly silty, dark brown (Loose)(Decomposed Sandstone)

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-49, SHEET 3 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+070, 46.6 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-14-2015 TO 8-19-2015 — SURFACE ELEV.: 1019.5 FT. 310.7 M
REFUSAL: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
SAMPLED: 48.5 FT. 14.8 M
TOP OF ROCK: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
BEGAN CORING: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
FOOTAGE CORED (LF): 36.0 FT. 11.0 M
BOTTOM OF HOLE: DEPTH 84.5 FT. 25.8 M — ELEV. 935.0 FT. 285.0 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 65.0 FT. 19.8 M, ELEV. 954.5 FT. 290.9 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19										
		43.5	13.26	43.5	13.26								
45.0	13.72	45.0	13.72	45.0	13.72	S-11	SS	18	4	5	5	10	DO9
47.5	14.48												
				48.5	14.78								AUGER REFUSAL @ 48.5', DRY PRIOR TO CORING
		48.5	14.78			RUN 1 RAN 5.0 REC 4.8 RQD 70%							BEGIN NQ CORING @ 48.5', 100% DWR
50.0	15.24												
				53.3	16.25								Sandstone, calcareous, gray to wea. reddish-brown, variably stained, leached, weathered with open stained bedding planes and partially healed open stained bedding planes DIP 15°
				53.5	16.31								q_u=119.9 MPa, γ=26.73 kN/m^3
52.5	16.00												
		53.5	16.31			RUN 2 RAN 5.0 REC 4.8 RQD 36%							
55.0	16.76												
57.5	17.53			58.5	17.83								DIP 15°
		58.5	17.83			RUN 3 RAN 5.0 REC 5.0 RQD 68%							
60.0	18.29			60.0	18.29								

REMARKS: Continued On Page 4.

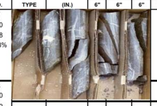
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-49, SHEET 5 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+070, 46.6 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-14-2015 TO 8-19-2015 — SURFACE ELEV.: 1019.5 FT. 310.7 M
REFUSAL: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
SAMPLED: 48.5 FT. 14.8 M
TOP OF ROCK: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
BEGAN CORING: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
FOOTAGE CORED (LF): 36.0 FT. 11.0 M
BOTTOM OF HOLE: DEPTH 84.5 FT. 25.8 M — ELEV. 935.0 FT. 285.0 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 65.0 FT. 19.8 M, ELEV. 954.5 FT. 290.9 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		80.0	24.38			RUN 7 RAN 5.0 REC 4.8 RQD= 78%							
82.5	25.15												Sandstone, calareous, gray, with open stained diagonal bedding planes, Lost 0.2' at bottom DIP 75° TO 80°
				83.5	25.45								CORRECTED DEPTH 83.3
		83.5	25.45			RUN 8 RAN 1.0 REC 1.2 RQD 50%							
				84.5	25.76								
85.0	25.91												BORING TERMINATED @ 84.5' 100% DWL
87.5	26.67												
90.0	27.43												
92.5	28.19												
95.0	28.96												
97.5	29.72												
100.0	30.45												



REMARKS:

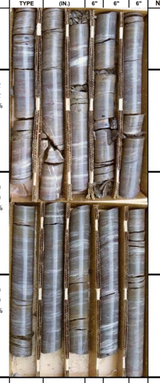
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-48, SHEET 4 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+010, 38.1 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 7/30/2015-7/31/2015 — SURFACE ELEV.: 989.5 FT. 301.6 M
REFUSAL: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
SAMPLED: 53.0 FT. 16.2 M
TOP OF ROCK: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
BEGAN CORING: DEPTH 53.0 FT. 16.2 M — ELEV. 936.5 FT. 285.4 M
FOOTAGE CORED (LF): 25.0 FT. 7.6 M
BOTTOM OF HOLE: DEPTH 78.0 FT. 23.8 M — ELEV. 911.5 FT. 277.8 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
62.5	19.05												Sandstone, calcareous, siliceous, lt gray w/siltstone variably stained, leached, weathered with open stained bedding planes and partially healed diagonal fractures
				62.8	19.14								
		62.8	19.14			RUN 3 RAN 5.2 REC 5.2 RQD 35%							
65.0	19.81												
67.5	20.57			68.0	20.73								
		68.0	20.73			RUN 4 RAN 5.0 REC 5.0 RQD 78%							
70.0	21.33												
72.5	22.10			73.0	22.25								
		73.0	22.25			RUN 5 RAN 5.0 REC 4.9 RQD 84%							
75.0	22.86			75.2	22.92								q_u=189.8 MPa, γ=26.79 kN/m^3 stained leached weathered zone 77.8' to 78.0'
77.5	23.62												
				78.0	23.77								
80.0	24.38												BORING TERMINATED AT 78.0' 100% DWR



REMARKS: BORNG LOCATED IN 6 FOOT CUT

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-49, SHEET 2 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+070, 46.6 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-14-2015 TO 8-19-2015 — SURFACE ELEV.: 1019.5 FT. 310.7 M
REFUSAL: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
SAMPLED: 48.5 FT. 14.8 M
TOP OF ROCK: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
BEGAN CORING: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
FOOTAGE CORED (LF): 36.0 FT. 11.0 M
BOTTOM OF HOLE: DEPTH 84.5 FT. 25.8 M — ELEV. 935.0 FT. 285.0 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 65.0 FT. 19.8 M, ELEV. 954.5 FT. 290.9 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		20.0	6.10										
22.5	6.86						A						
				23.5	7.16								
		23.5	7.163			S-7	SS	16	5	5	3	8	DO5, yellowish-brown
25.0	7.62			25.0	7.62								
		25.0	7.62										(Decomposed Siltstone)
27.5	8.38						A						
				28.5	8.69								
		28.5	8.687										
				30.0	9.14	S-8	SS	18	4	6	6	12	DO5, slightly silty, dark brown (Medium Dense)(Decomposed Sandstone)
30.0	9.14	30.0	9.144										
32.5	9.91						A						
				33.5	10.21								
		33.5	10.21										
				35.0	10.67	S-9	SS	18	3	4	5	9	DO8, (Loose)
35.0	10.67	35.0	10.67										
37.5	11.43						A						
				38.5	11.73								
		38.5	11.73										
40.0	12.19			40.0	12.19	S-10	SS	18	4	5	5	10	DO9

REMARKS: Continued On Page 3.

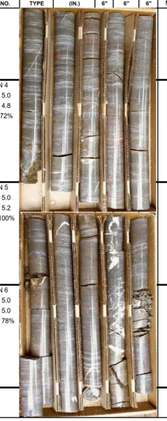
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-49, SHEET 4 OF 5

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+070, 46.6 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-14-2015 TO 8-19-2015 — SURFACE ELEV.: 1019.5 FT. 310.7 M
REFUSAL: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
SAMPLED: 48.5 FT. 14.8 M
TOP OF ROCK: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
BEGAN CORING: DEPTH 48.5 FT. 14.8 M — ELEV. 971.0 FT. 296.0 M
FOOTAGE CORED (LF): 36.0 FT. 11.0 M
BOTTOM OF HOLE: DEPTH 84.5 FT. 25.8 M — ELEV. 935.0 FT. 285.0 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 65.0 FT. 19.8 M, ELEV. 954.5 FT. 290.9 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
		60.0	18.29										
62.5	19.05												100% DWL @ 65.0' Sandstone, calcareous, gray to wea. reddish-brown variably fractured
				63.5	19.35								
		63.5	19.35			RUN 4 RAN 5.0 REC 4.8 RQD 72%							
65.0	19.81												
67.5	20.57			68.5	20.88								CORRECTED DEPTH 68.3
		68.5	20.88			RUN 5 RAN 5.0 REC 5.2 RQD 100%							
70.0	21.33												open stained bedding plane 71.4
72.5	22.10			73.5	22.40								
		73.5	22.4			RUN 6 RAN 5.0 REC 5.0 RED= 78%							
75.0	22.86												--- open stained diagonal fractures
77.5	23.62												
				78.5	23.93								
		78.5	23.93										
80.0	24.38			80.0	24.38								



REMARKS: Continued On Page 5.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-50, SHEET 1 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: N. Brown
BORING NO. / LOCATION: B-50, STA 6+070, 37.3 m L — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8/19/2015 TO 8/20/2015 — SURFACE ELEV.: 1016.4 FT. 309.8 M
REFUSAL: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
SAMPLED: 15.0 FT. 4.6 M
TOP OF ROCK: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
BEGAN CORING: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
FOOTAGE CORED (LF): 61.1 FT. 18.6 M
BOTTOM OF HOLE: DEPTH 80.0 FT. 24.4 M — ELEV. 936.4 FT. 285.4 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH 18.9 FT. 5.8 M, ELEV. 997.5 FT. 304.0 M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
				1.0	0.30								
		1.0	0.30			S-1	SS	12	3	5	6	11	Clay, very sandy, brown (Moist)(Stiff)
2.5	0.76			2.5	0.76								
		2.5	0.76				A						
				3.5	1.07								
		3.5	1.07										
				5.0	1.52	S-2	SS	16	3	5	5	10	DO1
5.0	1.52	5.0	1.52										
				6.0	1.83		A						
		6.0	1.83										
				7.5	2.29	S-3	SS	14	3	4	4	8	DO1
7.5	2.29						A						
		7.5	2.29										Sand, clayey, dark brown (Moist)(Loose)
				8.5	2.59								
		8.5	2.59										
				10.0	3.05	S-4	SS	18	3	2	2	4	
10.0	3.05						A						
12.5	3.81												
				13.5	4.11								
		13.5	4.11										
				15.0	4.57	S-5	SS	16	2	3	2	5	DO4, yellow to DO4, slighty clayey, dark brown
15.0	4.57						A						
		15.0	4.57										
17.5	5.33												
				18.5	5.64	RUN 1 RAN 1.1 REC 1.1 RQD 55%							AUGER REFUSAL @ 18.9'. DRY PRIOR TO CORING BEGIN NQ CORING @ 18.9', 100 DWL SEE RUN 2 FOR DESCRIPTION
		18.5	5.64										
				20.0	6.10								
20.0	6.10												

REMARKS: Con't sheet 2

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\Y681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

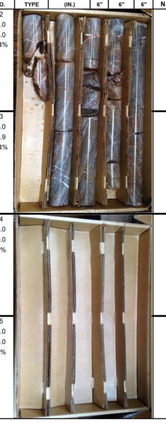
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	16/R

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-50, SHEET 2 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: N. Brown
BORING NO. / LOCATION: B-50, STA 6+070, 37.3 m L — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8/19/2015 TO 8/20/2015 — SURFACE ELEV.: 1016.4 FT. 309.8 M
REFUSAL: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
SAMPLED: 15.0 FT. 4.6 M
TOP OF ROCK: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
BEGAN CORING: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
FOOTAGE CORED (LF): 61.1 FT. 18.6 M
BOTTOM OF HOLE: DEPTH 80.0 FT. 24.4 M — ELEV. 936.4 FT. 285.4 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 18.9 FT. 5.8 M; ELEV. 997.5 FT. 304.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
22.5	6.86	20.0	6.10			RUN 2 RAN 2.0 REC 5.0 RQD 74%							Sandstone, calcareous, gray to wea. reddish-brown variably stained, leached, weathered with open stained and leached fractures and healed white calcite filled fractures, few open stained and leached bedding plane fractures Dip 80° to 90°
25.0	7.62			25.0	7.62								
		25.0	7.62			RUN 3 RAN 5.0 REC 3.9 RQD 64%							Dip 80° to 90°
27.5	8.38												
				30.0	9.14								--- void from 29.2 to 29.5
30.0	9.14	30.0	9.144			RUN 4 RAN 5.0 REC 0.0 RQD 0%							No Recovery. Water Pressure. Probably very sandy clay
32.5	9.91												
				35.0	10.67								
35.0	10.67	35.0	10.67			RUN 5 RAN 5.0 REC 0.0 RQD 0%							
37.5	11.43												
				40.0	12.19								
40.0	12.19												



REMARKS: Con't sheet 2

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-50, SHEET 4 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: N. Brown
BORING NO. / LOCATION: B-50, STA 6+070, 37.3 m L — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8/19/2015 TO 8/20/2015 — SURFACE ELEV.: 1016.4 FT. 309.8 M
REFUSAL: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
SAMPLED: 15.0 FT. 4.6 M
TOP OF ROCK: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
BEGAN CORING: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
FOOTAGE CORED (LF): 61.1 FT. 18.6 M
BOTTOM OF HOLE: DEPTH 80.0 FT. 24.4 M — ELEV. 936.4 FT. 285.4 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 18.9 FT. 5.8 M; ELEV. 997.5 FT. 304.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
62.5	19.05	60.0	18.29			RUN 10 RAN 5.0 REC 0.0 RQD 0%							No Recovery. Water Pressure. Probably very sandy clay
				65.0	19.81								
65.0	19.81	65.0	19.81			RUN 11 RAN 5.0 REC 0.7 RQD 8%							
67.5	20.57												
				70.0	21.34								69.3 - Sandstone, calcareous, gray to wea. reddish brown with open stained fracture, healed calcite filled fractures.
70.0	21.33	70.0	21.34			RUN 12 RAN 5.0 REC 5.0 RQD 100%							
72.5	22.10												
				75.0	22.86								
75.0	22.86	75.0	22.86			RUN 13 RAN 5.0 REC 5.0 RQD 86%							
77.5	23.62												77.5' one open stained diagonal fracture
				80.0	24.38								CORING TERMINATED @ 80.0' 100% DWL
80.0	24.38												

REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-51, SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: N. Brown
BORING NO. / LOCATION: B-51, STA 6+100, 37.5m L — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 21, 2015 — SURFACE ELEV.: 1022.3 FT. 311.6 M
REFUSAL: DEPTH 16.7 FT. 5.1 M — ELEV. 1005.6 FT. 306.5 M
SAMPLED: 15.0 FT. 4.6 M
TOP OF ROCK: DEPTH 16.7 FT. 5.1 M — ELEV. 1005.6 FT. 306.5 M
BEGAN CORING: DEPTH 16.7 FT. 5.1 M — ELEV. 1005.6 FT. 306.5 M
FOOTAGE CORED (LF): 12.3 FT. 3.7 M
BOTTOM OF HOLE: DEPTH 29.0 FT. 8.8 M — ELEV. 993.3 FT. 302.8 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 16.7 FT. 5.1 M; ELEV. 1005.6 FT. 306.5 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
22.5	6.86	20.0	6.10										Sandstone, calcareous, gray, few open stained, some leached, fractures, healed calcite filled fractures
				24.0	7.32								
		24.0	7.315			RUN 3 RAN 5.0 REC 4.9 RQD 94%							
27.5	8.38												
				29.0	8.84								CORING TERMINATED @ 8.8m 100% DWL
30.0	9.14												
32.5	9.91												
35.0	10.67												
37.5	11.43												
40.0	12.19												

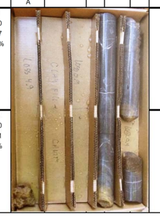
REMARKS: Con't Sheet 2

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-52, SHEET 2 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+130, 54.5 m Left — DRY ON COMPLETION ?: YES
DATE: 8/11/2015 TO 8/14/2015 — SURFACE ELEV.: 1033.9 FT. 315.1 M
REFUSAL: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
SAMPLED: 30.0 FT. 9.1 M
TOP OF ROCK: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
BEGAN CORING: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
FOOTAGE CORED (LF): 90.0 FT. 27.4 M
BOTTOM OF HOLE: DEPTH 120.0 FT. 36.6 M — ELEV. 913.9 FT. 278.6 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 30.0 FT. 9.1 M; ELEV. 1003.9 FT. 306.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
22.5	6.86	20.0	6.10				A						
				23.5	7.16								
		23.5	7.163										
25.0	7.62			25.0	7.62	S-7	SS	14	2	2	2	4	DO6 (moist)(Very Loose) (Decomposed Sandstone/ Siltstone)
		25.0	7.62										
27.5	8.38						A						
				28.5	8.69								
		28.5	8.687										
				29.5	8.99	S-8	SS	8	1	50		50	
				30.0	9.14		A						AUGER REFUSAL @ 30.0', DRY PRIOR TO CORING
30.0	9.14	30.0	9.144			RUN 1 RAN 5.0 REC 3.7 RQD 44%							BEGIN NQ CORING @ 30.0', 100% DWL
				31.5	9.60								q_u=183.4 MPa, γ=26.62 kN/m^3
32.5	9.91												Sandstone, calcareous, siliceous, gray, variably stained, leached weathered, with open cavity 31.1 to 31.5 and 34.0 to 35.0
				35.0	10.67								
35.0	10.67	35.0	10.67			RUN 2 RAN 5.0 REC 0.1 RQD 0%							
37.5	11.43												Coring on side wall of cavity. Probably filled with very sandy clay
				40.0	12.19								
40.0	12.19												



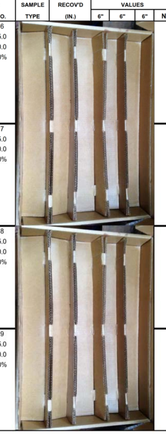
REMARKS: Continued On Page 3.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-50, SHEET 3 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: N. Brown
BORING NO. / LOCATION: B-50, STA 6+070, 37.3 m L — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8/19/2015 TO 8/20/2015 — SURFACE ELEV.: 1016.4 FT. 309.8 M
REFUSAL: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
SAMPLED: 15.0 FT. 4.6 M
TOP OF ROCK: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
BEGAN CORING: DEPTH 18.9 FT. 5.8 M — ELEV. 997.5 FT. 304.0 M
FOOTAGE CORED (LF): 61.1 FT. 18.6 M
BOTTOM OF HOLE: DEPTH 80.0 FT. 24.4 M — ELEV. 936.4 FT. 285.4 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 18.9 FT. 5.8 M; ELEV. 997.5 FT. 304.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19			RUN 6 RAN 5.0 REC 0.0 RQD 0%							No Recovery. Water Pressure. Probably very sandy clay
45.0	13.72			45.0	13.72								
		45.0	13.72			RUN 7 RAN 5.0 REC 0.0 RQD 0%							
47.5	14.48												
50.0	15.24			50.0	15.24								
		50.0	15.24			RUN 8 RAN 5.0 REC 0.0 RQD 0%							
52.5	16.00												
55.0	16.76			55.0	16.76								
		55.0	16.76			RUN 9 RAN 5.0 REC 0.0 RQD 0%							
57.5	17.53												
60.0	18.29			60.0	18.29								



REMARKS: Con't sheet 2

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-51, SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: N. Brown
BORING NO. / LOCATION: B-51, STA 6+100, 37.5m L — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 21, 2015 — SURFACE ELEV.: 1022.3 FT. 311.6 M
REFUSAL: DEPTH 16.7 FT. 5.1 M — ELEV. 1005.6 FT. 306.5 M
SAMPLED: 15.0 FT. 4.6 M
TOP OF ROCK: DEPTH 16.7 FT. 5.1 M — ELEV. 1005.6 FT. 306.5 M
BEGAN CORING: DEPTH 16.7 FT. 5.1 M — ELEV. 1005.6 FT. 306.5 M
FOOTAGE CORED (LF): 12.3 FT. 3.7 M
BOTTOM OF HOLE: DEPTH 29.0 FT. 8.8 M — ELEV. 993.3 FT. 302.8 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 16.7 FT. 5.1 M; ELEV. 1005.6 FT. 306.5 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
2.5	0.76	0.0	0.00				A						
				1.0	0.30								
		1.0	0.30			S-1	SS	14	2	3	3	6	Clay, sandy, reddish-brown (Moist)(Medium Stiff)
				2.5	0.76								
		2.5	0.76				A						
				3.5	1.07								
		3.5	1.07										
5.0	1.52					S-2	SS	16	4	5	6	11	DO1, stiff
				5.0	1.52								
		5.0	1.52				A						
				6.0	1.83								
		6.0	1.83										
						S-3	SS	14	2	2	1	3	DO1, soft
				7.5	2.29								
7.5	2.29						A						
		7.5	2.29										Sand, clayey, brown (Moist)(Very Loose)
				8.5	2.59								
		8.5	2.59										
						S-4	SS	18	1	0	1	1	Sand, slightly clayey, brown (Moist)(Very Loose)
				10.0	3.05								
10.0	3.05						A						
				12.0	3.66								
12.5	3.81												
				13.5	4.11								
		13.5	4.11										
						S-5	SS	16	0	0	0	0	DO4
				15.0	4.57								
15.0	4.57						A						
		15.0	4.57										
		16.5	5.03										AUGER REFUSAL @ 16.7', DRY PRIOR TO CORING
17.5	5.33												BEGIN NQ CORING @ 16.7', 100 DWL
				19.0	5.79	RUN 1 RAN 2.3 REC 2.2 RQD 87%							
		19.0	5.79			RUN 2 RAN 5.0 REC 5.0 RQD 88%							Sandstone, calcareous, gray, open stained, some leached, fractures, healed calcite filled fractures
				20.0	6.10								
20.0	6.10												

REMARKS: Con't Sheet 2

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-52, SHEET 1 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+130, 54.5 m Left — DRY ON COMPLETION ?: YES
DATE: 8/11/2015 TO 8/14/2015 — SURFACE ELEV.: 1033.9 FT. 315.1 M
REFUSAL: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
SAMPLED: 30.0 FT. 9.1 M
TOP OF ROCK: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
BEGAN CORING: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
FOOTAGE CORED (LF): 90.0 FT. 27.4 M
BOTTOM OF HOLE: DEPTH 120.0 FT. 36.6 M — ELEV. 913.9 FT. 278.6 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 30.0 FT. 9.1 M; ELEV. 1003.9 FT. 306.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
2.5	0.76	0.0	0.00				A						
				1.0	0.30								
		1.0	0.30			S-1	SS	14	4	5	5	10	Sand (F-M), silty, clayey, reddish-brown (moist)(Loose)
				2.5	0.76								
		2.5	0.76				A						
				3.5	1.07								
		3.5	1.07										
5.0	1.52					S-2	SS	14	4	6	8	14	DO1 (Medium Dense)
				5.0	1.52								
		5.0	1.52				A						
				6.0	1.83								
		6.0	1.83										
						S-3	SS	16	6	7	7	14	DO2
				7.5	2.29								
7.5	2.29						A						
		7.5	2.29										
				8.5	2.59								
		8.5	2.59										
						S-4	SS	16	4	5	5	10	Sand (F-M), silty, dark brown (moist)(Loose)
				10.0	3.05								
10.0	3.05												
							A						
12.5	3.81												
				13.5	4.11								
		13.5	4.11										
						S-5	SS	16	4	7	6	13	Sand (F-M), silty, dark brown/ yellowish-brown (moist)(Medium Dense) (Decomposed Sandstone/ Siltstone)
				15.0	4.57								
15.0	4.57												
		15.0	4.57				A						
17.5	5.33												
				18.5	5.64								
		18.5	5.64										
						S-6	SS	16	3	2	2	4	Sand (F-M), slightly silty, dark brown/ yellowish-brown (moist)(Very Loose) (Decomposed Sandstone/ Siltstone)
				20.0	6.10								
20.0	6.10												

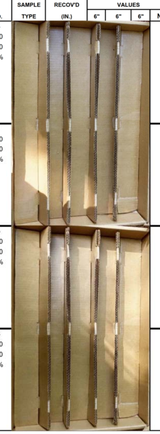
REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE — LOG OF BORING B-52, SHEET 3 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+130, 54.5 m Left — DRY ON COMPLETION ?: YES
DATE: 8/11/2015 TO 8/14/2015 — SURFACE ELEV.: 1033.9 FT. 315.1 M
REFUSAL: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
SAMPLED: 30.0 FT. 9.1 M
TOP OF ROCK: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
BEGAN CORING: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
FOOTAGE CORED (LF): 90.0 FT. 27.4 M
BOTTOM OF HOLE: DEPTH 120.0 FT. 36.6 M — ELEV. 913.9 FT. 278.6 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 30.0 FT. 9.1 M; ELEV. 1003.9 FT. 306.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	40.0	12.19			RUN 3 RAN 5.0 REC 0.0 RQD 0%							No recovery. No water pressure. Probable open cavity
45.0	13.72			45.0	13.72								
		45.0	13.72			RUN 4 RAN 5.0 REC 0.0 RQD 0%							--- Some water pressure. Probably very sandy clay
47.5	14.48												
50.0	15.24			50.0	15.24								
		50.0	15.24			RUN 5 RAN 5.0 REC 0.0 RQD 0%							--- Water pressure. Probably very sandy clay
52.5	16.00												
55.0	16.76			55.0	16.76								
		55.0	16.76			RUN 6 RAN 5.0 REC 0.0 RQD 0%							
57.5	17.53												
60.0	18.29			60.0	18.29								



REMARKS: Continued On Page 4.

PRELIMINARY PLANS

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\7681-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23.RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	167S

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-52, SHEET 4 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+130, 54.5 m Left — DRY ON COMPLETION ?: YES
DATE: 8/11/2015 TO 8/14/2015 — SURFACE ELEV.: 1033.9 FT. 315.1 M
REFUSAL: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
SAMPLED: 30.0 FT. 9.1 M
TOP OF ROCK: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
BEGAN CORING: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
FOOTAGE CORED (LF): 90.0 FT. 27.4 M
BOTTOM OF HOLE: DEPTH 120.0 FT. 36.6 M — ELEV. 913.9 FT. 278.6 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 30.0 FT. 9.1 M; ELEV. 1003.9 FT. 306.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
62.5	19.05	60.0	18.29	65.0	19.81	RUN 7 RAN 5.0 REC 0.0 RQD 0%							No recovery. Small smear of very sandy clay, yellowish-brown, on inner barrel
65.0	19.81	65.0	19.81	70.0	21.34	RUN 8 RAN 5.0 REC 0.9 RQD 10%							69.5- Sandstone, calcareous, siliceous, gray Sidewall core fragment to 69.5.
70.0	21.33	70.0	21.34	75.0	22.86	RUN 9 RAN 5.0 REC 4.9 RQD 70%							--- with open stained diagonal bedding planes 73.5 to 74.9 DIPS 20° TO 60° WITH 70° TO 80° FRACTURES
75.0	22.86	75.0	22.86	80.0	24.38	RUN 10 RAN 5.0 REC 5.0 RQD 78%							--- with open stained diagonal fractures 79.0 to 79.6, 79.6 to 80.0 broken during extraction

REMARKS: Continued On Page 5.

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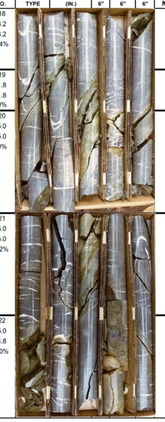
LOG OF BORING B-52, SHEET 6 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+130, 54.5 m Left — DRY ON COMPLETION ?: YES
DATE: 8/11/2015 TO 8/14/2015 — SURFACE ELEV.: 1033.9 FT. 315.1 M
REFUSAL: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
SAMPLED: 30.0 FT. 9.1 M
TOP OF ROCK: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
BEGAN CORING: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
FOOTAGE CORED (LF): 90.0 FT. 27.4 M
BOTTOM OF HOLE: DEPTH 120.0 FT. 36.6 M — ELEV. 913.9 FT. 278.6 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 30.0 FT. 9.1 M; ELEV. 1003.9 FT. 306.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
102.5	31.24	100.0	30.48	103.2	31.46	RUN 18 RAN 3.2 REC 3.2 RQD 34%							Sandstone, calcareous, gray, variably soft with open stained diagonal bedding planes, and open diagonal fractures DIPS 60° TO 70°
105.0	32.00	103.2	31.46	105.0	32.00	RUN 19 RAN 1.8 REC 1.8 RQD 0%							--- to greenish-gray, variably weathered variably soft and hard VERTICAL FRACTURES 70° TO 90°
107.5	32.76	105.0	32	110.0	33.53	RUN 20 RAN 5.0 REC 5.0 RQD 0%							partially healed diagonal fractures and diagonal bedding planes. Variably hard/ soft DIPS 70° TO 80°
112.5	34.29	110.0	33.53	111.8	34.08	RUN 21 RAN 5.0 REC 5.0 RQD 22%							q_u=119.3 MPa, γ=26.62 kN/m³ vertical fractures DIPS 60° TO 90°
117.5	35.81	115.0	35.05	120.0	36.58	RUN 22 RAN 5.0 REC 4.8 RQD 20%							Sandstone, calcareous, gray to greenish-gray with open diagonal and vertical fractures



Corrected Depth 119.8

BORING TERMINATED @ 120.0', 100% DWL

REMARKS:

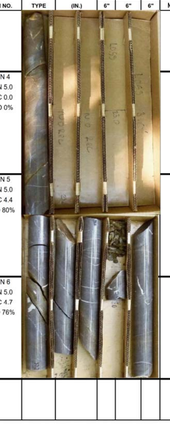
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-53, SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: Sta 6+160, 55.0 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 24, 2015 — SURFACE ELEV.: 1016.4 FT. 309.8 M
REFUSAL: DEPTH 8.0 FT. 2.4 M — ELEV. 1008.4 FT. 307.4 M
SAMPLED: 8.0 FT. 2.4 M
TOP OF ROCK: DEPTH 8.0 FT. 2.4 M — ELEV. 1008.4 FT. 307.4 M
BEGAN CORING: DEPTH 8.0 FT. 2.4 M — ELEV. 1008.4 FT. 307.4 M
FOOTAGE CORED (LF): 30.0 FT. 9.1 M
BOTTOM OF HOLE: DEPTH 38.0 FT. 11.6 M — ELEV. 978.4 FT. 298.2 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH FT. M; ELEV. FT. M.

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
22.5	6.86	20.0	6.10	23.0	7.01								open cavity 20.0 to 23.0, Loss 3.0 probable side wall coring probably sandy clay filled cavity
25.0	7.62	23.0	7.01	28.0	8.53	RUN 4 RAN 5.0 REC 0.0 RQD 0%							NO RECOVERY
30.0	9.14	28.0	8.534	33.0	10.06	RUN 5 RAN 5.0 REC 4.4 RQD 80%							Sandstone, calcareous, gray to wea reddish-brown 32.0 to 32.9 open, stained, leached, Loss 0.6' w/healed vertical fractures, healed diagonal fractures
35.0	10.67	33.0	10.06	38.0	11.58	RUN 6 RAN 5.0 REC 4.7 RQD 76%							
37.5	11.43												BORING TERMINATED @ 38.0', 100% DWR



REMARKS:

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-54, SHEET 2 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: NB AND WDS
BORING NO. / LOCATION: Sta 6+190, 40.1 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-22-2015 TO 8-24-2015 — SURFACE ELEV.: 992.6 FT. 302.5 M
REFUSAL: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
SAMPLED: 16.2 FT. 4.9 M
TOP OF ROCK: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
BEGAN CORING: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
FOOTAGE CORED (LF): 47.8 FT. 14.6 M
BOTTOM OF HOLE: DEPTH 64.0 FT. 19.5 M — ELEV. 928.6 FT. 283.0 M
BORING ADVANCED BY: CORE — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 17.0 FT. 5.2 M; ELEV. 975.6 FT. 297.4 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
22.5	6.86	20.0	6.10	24.0		RUN 2 RAN 5.0 REC 0.0 RQD 0%							NO RECOVERY Probably very sandy clay
25.0	7.62	24.0	7.315	29.0	8.84	RUN 3 RAN 5.0 REC 0.0 RQD 0%							
30.0	9.14	29.0	8.839	34.0	10.36	RUN 4 RAN 5.0 REC 2.6 RQD 40%							Continue cavity to 31.4'
32.5	9.91												31.4' to 32.0' Weathered Sandstone
													Sandstone, calcareous,gray to wea reddish-brown
35.0	10.67	34.0	10.36	39.0	11.89	RUN 5 RAN 5.0 REC 2.7 RQD 36%							cavity 35.0' to 35.3'; cavity 35.5' to 35.6'
37.5	11.43												NO RECOVERY 36.7' to 40.3'
		39.0	11.89	40.0	12.19								

REMARKS: Continued On Page 3.

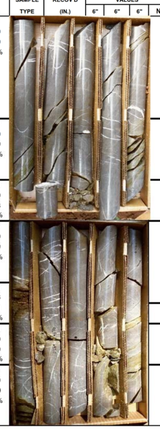
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-52, SHEET 5 OF 6

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+130, 54.5 m Left — DRY ON COMPLETION ?: YES
DATE: 8/11/2015 TO 8/14/2015 — SURFACE ELEV.: 1033.9 FT. 315.1 M
REFUSAL: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
SAMPLED: 30.0 FT. 9.1 M
TOP OF ROCK: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
BEGAN CORING: DEPTH 30.0 FT. 9.1 M — ELEV. 1003.9 FT. 306.0 M
FOOTAGE CORED (LF): 90.0 FT. 27.4 M
BOTTOM OF HOLE: DEPTH 120.0 FT. 36.6 M — ELEV. 913.9 FT. 278.6 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 30.0 FT. 9.1 M; ELEV. 1003.9 FT. 306.0 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
82.5	25.15	80.0	24.38	85.0	25.91	RUN 11 RAN 5.0 REC 5.0 RQD 62%							Sandstone, calcareous, siliceous, gray, open stained, leached diagonal bedding planes 80.0 to 80.3 and 81.0 to 81.8, DIPS 55° TO 60°
85.0	25.91	85.0	25.91	87.9	26.79	RUN 12 RAN 3.0 REC 3.0 RQD 33%							--- diagonal fractures and diagonal bedding planes
87.5	26.67	88.0	26.82	90.0	27.43	RUN 13 RAN 2.0 REC 1.8 RQD 40%							q_u=96.8 MPa, γ=26.55 kN/m³ 85.4 to 86.1, and 86.6 to 87.6 DIPS 55° TO 60° DIP 70° Corrected Depth 89.8
90.0	27.43	90.0	27.43	94.0	28.65	RUN 14 RAN 4.0 REC 3.9 RQD 20%							--- high angle bedding plane fractures 70° TO 80° DIP 30°
92.5	28.19	94.0	28.65	95.0	28.96	RUN 15 RAN 1.3 REC 1.1 RQD 77%							--- with open cavity 93.7 to 94.0
95.0	28.96	95.0	28.96	97.0	29.57	RUN 16 RAN 2.0 REC 1.9 RQD 85%							--- with mud filled cavity 96.8 to 97.0
97.5	29.72	97.0	29.57	100.0	30.48	RUN 17 RAN 3.0 RQD 2.9 RQD 70%							Sandstone, calcareous, gray, variably stained, leached 98.5 to 98.9, and 99.6 to 100.0



REMARKS: Continued On Page 6

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-53, SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: Sta 6+160, 55.0 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 24, 2015 — SURFACE ELEV.: 1016.4 FT. 309.8 M
REFUSAL: DEPTH 8.0 FT. 2.4 M — ELEV. 1008.4 FT. 307.4 M
SAMPLED: 8.0 FT. 2.4 M
TOP OF ROCK: DEPTH 8.0 FT. 2.4 M — ELEV. 1008.4 FT. 307.4 M
BEGAN CORING: DEPTH 8.0 FT. 2.4 M — ELEV. 1008.4 FT. 307.4 M
FOOTAGE CORED (LF): 30.0 FT. 9.1 M
BOTTOM OF HOLE: DEPTH 38.0 FT. 11.6 M — ELEV. 978.4 FT. 298.2 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH FT. M; ELEV. FT. M.

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
2.5	0.76	0.0	0.00	1.0	0.30		A						
		1.0	0.30	2.5	0.76	S-1	SS	14	3	7	10	17	Clay, very sandy, silty, reddish-brown (moist)(Very Stiff)
5.0	1.52	2.5	0.76	3.5	1.07		A						
		3.5	1.07	5.0	1.52	S-2	SS	16	4	6	5	11	Sand (F-M), silty, slightly clayey, reddish-brown (moist)(Medium Dense)
7.5	2.29	5.0	1.52	6.0	1.83		A						
		6.0	1.83	7.5	2.29	S-3	SS	12	1	2	2	4	DO2, silty (very loose)
		7.5	2.29	8.0	2.44		A						AUGER REFUSAL @ 8.0', DRY ON COMPLETION
10.0	3.05	8.0	2.44			RUN 1 RAN 5.0 REC 3.0 RQD 40%							BEGIN NQ CORING @ 8.0', 100% DWR Sandstone, calcareous, siliceous, wea. gray to red-brown, w/open stained, diagonal bedding planes, w/healed vertical and diagonal fractures Sand filled cavity 8.9 to 11.0
12.5	3.81			13.0	3.96								Sandstone, calcareous, silicous, weathered, gray to red-brn, w/open stained, diagonal bedding planes, with healed vertical and diagonal fractures 13.0 to 13.5 open stained, leached joint
15.0	4.57	13.0	3.96			RUN 2 RAN 5.0 REC 2.4 RQD 38%							
17.5	5.33			18.0	5.49								15.4 to 19.4 probably sandy clay filled cavity Loss 2.6'
		18.0	5.49	20.0	6.10	RUN 3 RAN 5.0 REC 0.6 RQD 0%							Loss 1.4' Sandstone, calcareous, silicous, wea gray to red-brn, w/open stained, diagonal bedding planes, variably stained, leached, wea to 20'

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-54, SHEET 1 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: NB AND WDS
BORING NO. / LOCATION: Sta 6+190, 40.1 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-22-2015 TO 8-24-2015 — SURFACE ELEV.: 992.6 FT. 302.5 M
REFUSAL: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
SAMPLED: 16.2 FT. 4.9 M
TOP OF ROCK: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
BEGAN CORING: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
FOOTAGE CORED (LF): 47.8 FT. 14.6 M
BOTTOM OF HOLE: DEPTH 64.0 FT. 19.5 M — ELEV. 928.6 FT. 283.0 M
BORING ADVANCED BY: CORE — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 17.0 FT. 5.2 M; ELEV. 975.6 FT. 297.4 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
2.5	0.76	0.0	0.00	1.0	0.30		A						
		1.0	0.30	2.5	0.76	S-1	SS		6	7	7	14	Clay, sandy, brown (Moist)(Stiff)
5.0	1.52	2.5	0.76	3.5	1.07		A						
		3.5	1.07	5.0	1.52	S-2	SS		5	5	6	11	Sand (F-M), clayey, brown, (Moist)(Medium Dense)
7.5	2.29	5.0	1.52	6.0	1.83		A						
		6.0	1.83	7.5	2.29	S-3	SS		8	6	6	12	DO2, brown to yellowish-brown (Moist)(Medium Dense)
		7.5	2.29	8.5	2.59		A						
10.0	3.05	8.5	2.59	10.0	3.05	S-4	SS		7	4	3	7	DO2 (Loose)
		10.0	3.05				A						
12.5	3.81			13.5	4.11								
		13.5	4.11	15.0	4.57	S-5	SS		2	2	1	3	DO4, slightly clayey, brown/yellowish-brown (Very Loose)
15.0	4.57	15.0	4.57	16.2	4.94		A						
													AUGER REFUSAL @ 16.2', DRY PRIOR TO CORING
		16.2	4.94			RUN 1 RAN 2.8 REC 0.6 RQD 21%							BEGIN NQ CORING @ 16.2', 100% DWR 100% DWL @ 17.0' Sandstone, gray 16.2' to 16.8'
17.5	5.33			19.0	5.79								16.8' to 19.0' Clay, very sandy, Loss 2.2'
		19.0	5.79	20.0	6.10								NO RECOVERY Probably very sandy clay

REMARKS: Continued On Page 2.

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-54, SHEET 3 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: NB AND WDS
BORING NO. / LOCATION: Sta 6+190, 40.1 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-22-2015 TO 8-24-2015 — SURFACE ELEV.: 992.6 FT. 302.5 M
REFUSAL: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
SAMPLED: 16.2 FT. 4.9 M
TOP OF ROCK: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
BEGAN CORING: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
FOOTAGE CORED (LF): 47.8 FT. 14.6 M
BOTTOM OF HOLE: DEPTH 64.0 FT. 19.5 M — ELEV. 928.6 FT. 283.0 M
BORING ADVANCED BY: CORE — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M; ELEV. FT. M. AFTER 24 HRS.: DEPTH FT. M; ELEV. FT. M. LDW AT: DEPTH 17.0 FT. 5.2 M; ELEV. 975.6 FT. 297.4 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95	20.0	6.10	44.0		RUN 6 RAN 5.0 REC 3.1 RQD 48%							Sandstone, calcareous, gray to wea reddish-brown
45.0	13.72	44.0	13.41	49.0	14.94	RUN 7 RAN 5.0 REC 5.1 RQD 78%							--- with open, stained bedding planes
50.0	15.24	49.0	14.94	52.2	15.91	RUN 8 RAN 3.2 REC 2.9 RQD 0%							--- variably stained, leached, weathered with numerous open stained bedding planes, Loss 0.3'
52.5	16.00	52.2	15.91	54.0	16.46	RUN 9 RAN 1.8 REC 1.7 RQD 94.4							--- with healed diagonal fractures
55.0	16.76	54.0	16.46	59.0	17.98	RUN 10 RAN 5.0 REC 4.7 RQD 64%							--- with numerous open stained bedding planes and weathered zones, Loss 0.3'
57.5	17.53	59.0	17.98	60.0	18.29								

REMARKS: Continued On Page 4.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015 R:_Infrastructure Project Files\2015 Infra Projects\T68-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

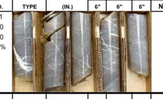
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-54, SHEET 4 OF 4

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: NB AND WDS
BORING NO. / LOCATION: Sta 6+190, 40.1 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8-22-2015 TO 8-24-2015 — SURFACE ELEV.: 992.6 FT. 302.5 M
REFUSAL: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
SAMPLED: 16.2 FT. 4.9 M
TOP OF ROCK: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
BEGAN CORING: DEPTH 16.2 FT. 4.9 M — ELEV. 976.4 FT. 297.6 M
FOOTAGE CORED (LF): 47.8 FT. 14.6 M
BOTTOM OF HOLE: DEPTH 64.0 FT. 19.5 M — ELEV. 928.6 FT. 283.0 M
BORING ADVANCED BY: CORE — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 17.0 FT. 5.2 M, ELEV. 975.6 FT. 297.4 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
62.5	19.05			64.0	19.51	RUN 11 RAN 5.0 REC 5.0 RQD 88%							Sandstone, calcareous, gray with open, stained bedding planes
65.0	19.81												BORING TERMINATED @ 64.0' 100% DWL @ 17.0'
67.5	20.57												
70.0	21.33												
72.5	22.10												
75.0	22.86												
77.5	23.62												
80.0	24.38												



REMARKS:

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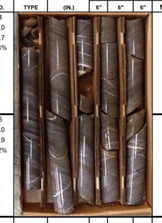
LOG OF BORING B-55, SHEET 2 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: B-55, STA 6+200, 41.9m L — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 21, 2015 — SURFACE ELEV.: 975.1 FT. 297.2 M
REFUSAL: DEPTH 8.3 FT. 2.5 M — ELEV. 966.8 FT. 294.7 M
SAMPLED: 7.5 FT. 2.3 M
TOP OF ROCK: DEPTH 8.3 FT. 2.5 M — ELEV. 966.8 FT. 294.7 M
BEGAN CORING: DEPTH 8.3 FT. 2.5 M — ELEV. 966.8 FT. 294.7 M
FOOTAGE CORED (LF): 21.7 FT. 6.6 M
BOTTOM OF HOLE: DEPTH 30.0 FT. 9.1 M — ELEV. 945.1 FT. 288.1 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 9.0 FT. 2.7 M, ELEV. 966.1 FT. 294.5 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	DESCRIPTION
22.5	6.86	20.0	6.10			RUN 4 RAN 5.0 REC 4.7 RQD 74%							Sandstone, calcareous, gray to wea reddish-brown, variably stained, leached, weathered w/ open stained and leached bedding plane fractures, healed white calcite filled fractures Dip 45°
25.0	7.62	25.0	7.62										
		25.0	7.62			RUN 5 RAN 5.0 REC 4.9 RQD 82%							
27.5	8.38												
30.0	9.14			30.0	9.14								CORING TERMINATED @ 9.1 m 100% DWL
32.5	9.91												
35.0	10.67												
37.5	11.43												
40.0	12.19												



REMARKS: Con't page 2

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-56A, SHEET 1 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+250, 34.8 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8/3/2015 TO 8/4/2015 — SURFACE ELEV.: 941.8 FT. 287.1 M
REFUSAL: DEPTH 19.1 FT. 5.8 M — ELEV. 922.7 FT. 281.2 M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH 19.1 FT. 5.8 M — ELEV. 922.7 FT. 281.2 M
BEGAN CORING: DEPTH 19.1 FT. 5.8 M — ELEV. 922.7 FT. 281.2 M
FOOTAGE CORED (LF): 30.0 FT. 9.1 M
BOTTOM OF HOLE: DEPTH 49.1 FT. 15.0 M — ELEV. 892.7 FT. 272.1 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 9.0 FT. 2.7 M, ELEV. 922.2 FT. 281.1 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00										
2.5	0.76												
5.0	1.52												
7.5	2.29												
10.0	3.05						A						AUGER TO REFUSAL
12.5	3.81												
15.0	4.57												
17.5	5.33												
				19.1	5.82	RUN 1 RAN 1.7 REC 0.8 RQD 0%							AUGER REFUSAL @ 19.1' DRY PRIOR TO CORING
		19.1	5.82										BEGIN NQ CORING @ 19.1', 100% DWR
20.0	6.10			20.0	6.10								Sandstone, calcareous, siliceous, gray, weathered

REMARKS: Continued On Page 2.

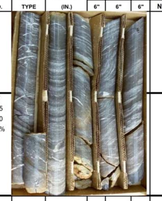
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-56A, SHEET 2 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+250, 34.8 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8/3/2015 TO 8/4/2015 — SURFACE ELEV.: 941.8 FT. 287.1 M
REFUSAL: DEPTH 19.1 FT. 5.8 M — ELEV. 922.7 FT. 281.2 M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH 19.1 FT. 5.8 M — ELEV. 922.7 FT. 281.2 M
BEGAN CORING: DEPTH 19.1 FT. 5.8 M — ELEV. 922.7 FT. 281.2 M
FOOTAGE CORED (LF): 30.0 FT. 9.1 M
BOTTOM OF HOLE: DEPTH 49.1 FT. 15.0 M — ELEV. 892.7 FT. 272.1 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 19.6 FT. 6.0 M, ELEV. 922.2 FT. 281.1 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
42.5	12.95												Sandstone, calcareous, siliceous, gray, with healed fractures DIP 45° to 55°
				44.1	13.44								
		44.1	13.44			RUN 7 RAN 5.5 REC 5.0 RQD 90%							
45.0	13.72												
47.5	14.48												
				48.8	14.87								q_u=125.6 MPa, γ=26.55 kN/m^3, 20.4% Quartz
				49.1	14.97								
50.0	15.24												BORING TERMINATED @ 49.1' 100% DWL
52.5	16.00												
55.0	16.76												
57.5	17.53												
60.0	18.29												



REMARKS:

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	47026-3279-14	1671

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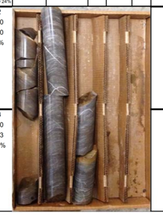
LOG OF BORING B-55, SHEET 1 OF 2

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: B-55, STA 6+200, 41.9m L — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: August 21, 2015 — SURFACE ELEV.: 975.1 FT. 297.2 M
REFUSAL: DEPTH 8.3 FT. 2.5 M — ELEV. 966.8 FT. 294.7 M
SAMPLED: 7.5 FT. 2.3 M
TOP OF ROCK: DEPTH 8.3 FT. 2.5 M — ELEV. 966.8 FT. 294.7 M
BEGAN CORING: DEPTH 8.3 FT. 2.5 M — ELEV. 966.8 FT. 294.7 M
FOOTAGE CORED (LF): 21.7 FT. 6.6 M
BOTTOM OF HOLE: DEPTH 30.0 FT. 9.1 M — ELEV. 945.1 FT. 288.1 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 9.0 FT. 2.7 M, ELEV. 966.1 FT. 294.5 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
		1.0	0.30	1.0	0.30								
2.5	0.76					S-1	SS	14	6	3	3	6	Clay, sandy, reddish-brown (Moist)(Medium Stiff)
		2.5	0.76	2.5	0.76		A						
		3.5	1.07	3.5	1.07								to Sand, clayey, brown and dark brown (Moist)(Loose)
						S-2	SS	16	3	1	2	3	Clay, sandy, brown (Moist)(Medium Stiff)
5.0	1.52	5.0	1.52	5.0	1.52								
				6.0	1.83		A						
		6.0	1.83										
						S-3	SS	14	3	2	7	9	Sand, clayey, brown and dark brown (Moist)(Loose)
7.5	2.29	7.5	2.29	7.5	2.29		A						
				8.5	2.59								AUGER REFUSAL @ 8.3', DRY PRIOR TO CORING
		8.5	2.59			RUN 1 RAN 1.7 REC 1.0 RQD 24%							BEGIN NQ CORING @ 8.3'; 100 DWL @ 9.0' Sandstone, gray to weathered reddish-brown
10.0	3.05			10.0	3.05								
		10.0	3.05			RUN 2 RAN 5.0 REC 0.0 RQD 0%							No Recovery. Water Pressure. Probably very sandy clay
12.5	3.81												
				15.0	4.57								
15.0	4.57	15.0	4.57			RUN 3 RAN 5.0 REC 4.3 RQD 46%							Sandstone, calcareous, gray to wea reddish-brown, variably stained, leached, weathered w/ open stained and leached bedding plane fractures, healed white calcite filled fractures, Dip 45°
17.5	5.33												
				20.0	6.10								void from 19.1' - 19.8'
20.0	6.10												



REMARKS: Con't page 2

amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-56, SHEET 1 OF 1

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+250, 36.2 m Left — DRY ON COMPLETION ?: YES
DATE: August 1, 2015 — SURFACE ELEV.: 942.2 FT. 287.2 M
REFUSAL: DEPTH 20.0 FT. 6.1 M — ELEV. 922.2 FT. 281.1 M
SAMPLED: 20.0 FT. 6.1 M
TOP OF ROCK: DEPTH 20.0 FT. 6.1 M — ELEV. 922.2 FT. 281.1 M
BEGAN CORING: DEPTH NA FT. M — ELEV. FT. M
FOOTAGE CORED (LF): 0.0 FT. 0.0 M
BOTTOM OF HOLE: DEPTH 20.0 FT. 6.1 M — ELEV. 922.2 FT. 281.1 M
BORING ADVANCED BY: — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH FT. M, ELEV. FT. M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	SPT VALUES 6"	6"	6"	N	STRATUM DESCRIPTION
		0.0	0.00				A						
		1.0	0.30	1.0	0.30								
2.5	0.76					S-1	SS	14	3	3	3	6	Clay, very sandy, silty, reddish-brown with sandstone fragments (Damp)(Medium Stiff)
		2.5	0.76	2.5	0.76		A						
		3.5	1.07	3.5	1.07								
						S-2	SS	18	4	5	5	10	Sand, (F-M), silty, slightly clayey, reddish-brown with sandstone fragments (moist) (Loose)
5.0	1.52	5.0	1.52	5.0	1.52								
				6.0	1.83		A						
		6.0	1.83										
						S-3	SS	16	7	4	4	8	DO2
7.5	2.29	7.5	2.29	7.5	2.29		A						
		8.5	2.59	8.5	2.59								
						S-4	SS	16	3	3	3	6	DO2
10.0	3.05	10.0	3.05	10.0	3.05								
							A						
12.5	3.81												
		13.5	4.11	13.5	4.11								
						S-5	SS	18	2	2	2	4	DO2, very loose, with sandstone and root fragments (Decomposed Sandstone)
15.0	4.57	15.0	4.57	15.0	4.57								
							A						AUGER LEADING OFF ALONG IRREGULAR ROCK SURFACE
17.5	5.33												
		18.5	5.64	18.5	5.64								
				20.0	6.10	S-6	SS	14	4	5	3	8	Sand (F-M), silty, dark brown with sandstone fragments (moist)(Loose)(Decomposed Sandstone)
20.0	6.10												BORING TERMINATED @ 20.0', DRY ON COMPLETION

REMARKS: AUGERS LEADING OFF ON IRREGULAR BEDROCK SURFACE. BORING TERMINATED.

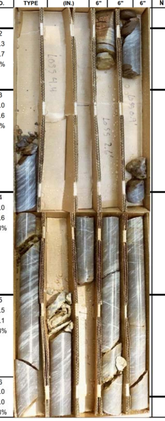
amec foster wheeler — GEOTECHNICAL BRANCH, NASHVILLE, TENNESSEE

LOG OF BORING B-56A, SHEET 3 OF 3

PROJECT: ALCOA HIGHWAY WIDENING (SR-115) RETAINING WALLS 7 AND 8 — DRILLER: TRI-STATE DRILLING
PROJECT NO.: 7681-15-002 — ON-SITE REP.: WDS
BORING NO. / LOCATION: STA 6+250, 34.8 m Left — DRY ON COMPLETION ?: YES, PRIOR TO CORING
DATE: 8/3/2015 TO 8/4/2015 — SURFACE ELEV.: 941.8 FT. 287.1 M
REFUSAL: DEPTH 19.1 FT. 5.8 M — ELEV. 922.7 FT. 281.2 M
SAMPLED: 0.0 FT. 0.0 M
TOP OF ROCK: DEPTH 19.1 FT. 5.8 M — ELEV. 922.7 FT. 281.2 M
BEGAN CORING: DEPTH 19.1 FT. 5.8 M — ELEV. 922.7 FT. 281.2 M
FOOTAGE CORED (LF): 30.0 FT. 9.1 M
BOTTOM OF HOLE: DEPTH 49.1 FT. 15.0 M — ELEV. 892.7 FT. 272.1 M
BORING ADVANCED BY: CORING — POWER AUGERING: X — WASHBORING:

WATER LEVEL DATA (IF APPLICABLE): COMPLETION: DEPTH FT. M, ELEV. FT. M; AFTER 24 HRS.: DEPTH FT. M, ELEV. FT. M; LDW AT: DEPTH 19.6 FT. 6.0 M, ELEV. 922.2 FT. 281.1 M

STRATUM DEPTH FT.	STRATUM DEPTH M.	SAMPLE DEPTH FROM FT.	SAMPLE DEPTH FROM M.	SAMPLE DEPTH TO FT.	SAMPLE DEPTH TO M.	SAMPLE OR RUN NO.	SAMPLE TYPE	SPLE/CORE RECOV'D (IN.)	"SPT" VALUES 6"	6"	6"	N	DESCRIPTION
				20.8	6.34								Sandstone, calcareous, siliceous, gray, weathered Loss 0.9' from 19.9 to 20.8
22.5	6.86	20.8	6.34			RUN 2 RAN 3.3 REC 0.7 RQD 0%							sand filled cavity 21.5' to 24.1', Loss 2.6'
				24.1	7.35								
25.0	7.62	24.1	7.340			RUN 3 RAN 5.0 REC 0.6 RQD 6%							clayey sand filled cavity to 28.6', Loss 4.4' DIP 65°
27.5	8.38												
				28.9	8.81								q_u=136.3 MPa, γ=26.24 kN/m^3, 30.7% Quartz
				29.1	8.87								CORE PHOTO 19.1 TO 29.1
30.0	9.14	29.1	8.87			RUN 4 RAN 5.0 REC 4.6 RQD 78%							with open stained diagonal bedding planes and sand filled cavity 33.7' to 34.1', Loss 0.4' DIP 55°
32.5	9.91												
				34.1	10.39								
35.0	10.67	34.1	10.39			RUN 5 RAN 5.5 REC 3.1 RQD 48%							sand filled cavity to 36.0', Loss 1.9' open stained diagonal bedding planes DIP 55° to 65°
37.5	11.43												
				39.1	11.92	RUN 6 RAN 5.0 REC 5.0 RQD 88%							CORE PHOTO 29.1 TO 39.1
		39.1	11.92										
				40.0	12.19								open stained diagonal bedding planes
40.0	12.19												



REMARKS: Continued On Page 3.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

PRELIMINARY PLANS

SEALED BY

TENNESSEE METRIC D.O.T.

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
RETAINING WALLS
NO. 7 AND 8

SCALE: AS NOTED

9/9/2015
R:_Infrastructure Project Files\2015 Infra Projects\Y68I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\03-23_RETAINING WALL NO. 7 AND 8 SOIL BORING LOGS.SHT

MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

- TOPSOIL
- FILL (MADE GROUND)
- LOW PLASTICITY SANDY CLAY
- SILTY SAND
- SANDY SILT
- BT BORING TERMINATED

SOIL DESCRIPTIONS

Ⓐ — SOIL

CONTRACTOR NOTES:

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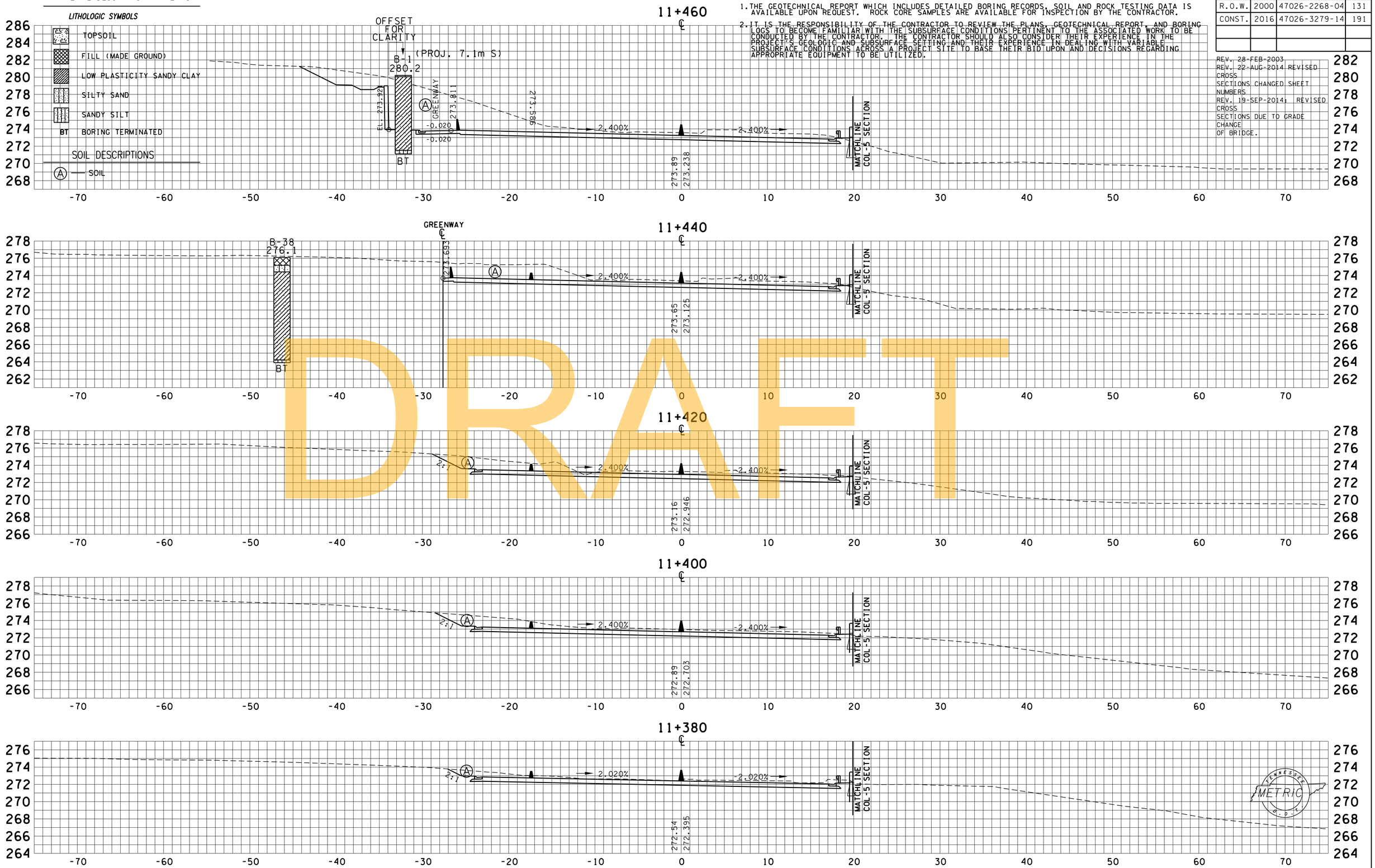
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	131
CONST.	2016	47026-3279-14	191

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.



DRAFT

SOIL DESCRIPTIONS

Ⓐ — SOIL

MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

- TOPSOIL
- FILL (MADE GROUND)
- LOW PLASTICITY SANDY CLAY
- SILTY SAND
- SILT
- SANDY SILT
- BT BORING TERMINATED
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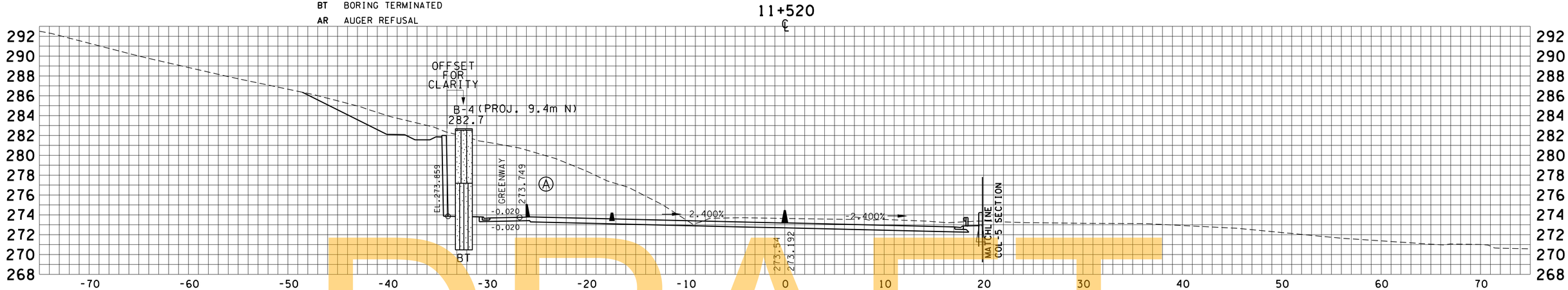
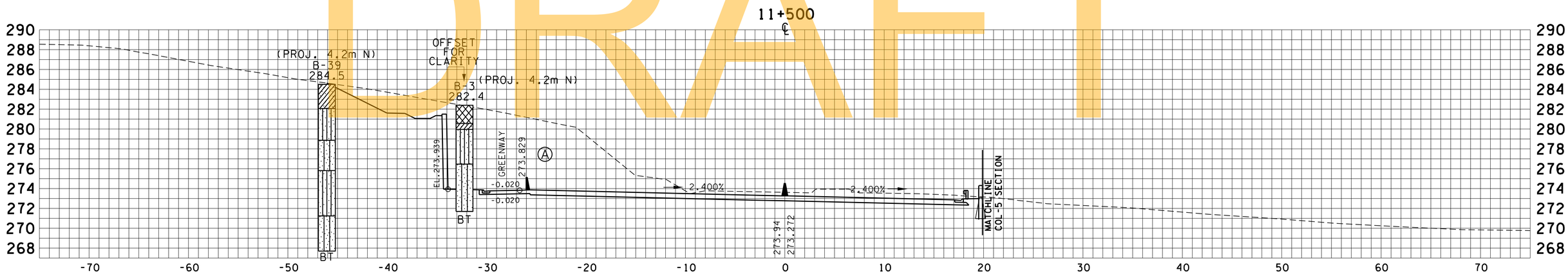
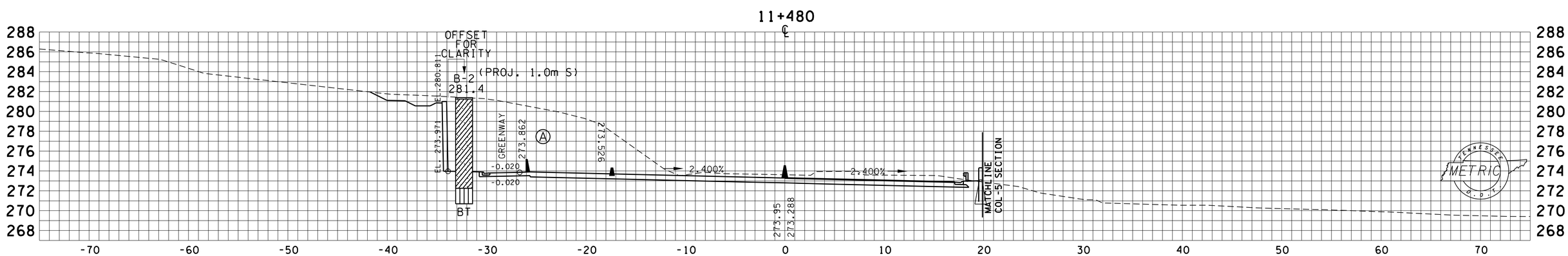
R.O.W.	2000	47026-2268-04	132
CONST.	2016	47026-3279-14	192

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.







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TENNESSEE METRIC D.O.T.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	195
CONST.	2016	47026-3279-14	255

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

CONTRACTOR NOTES:

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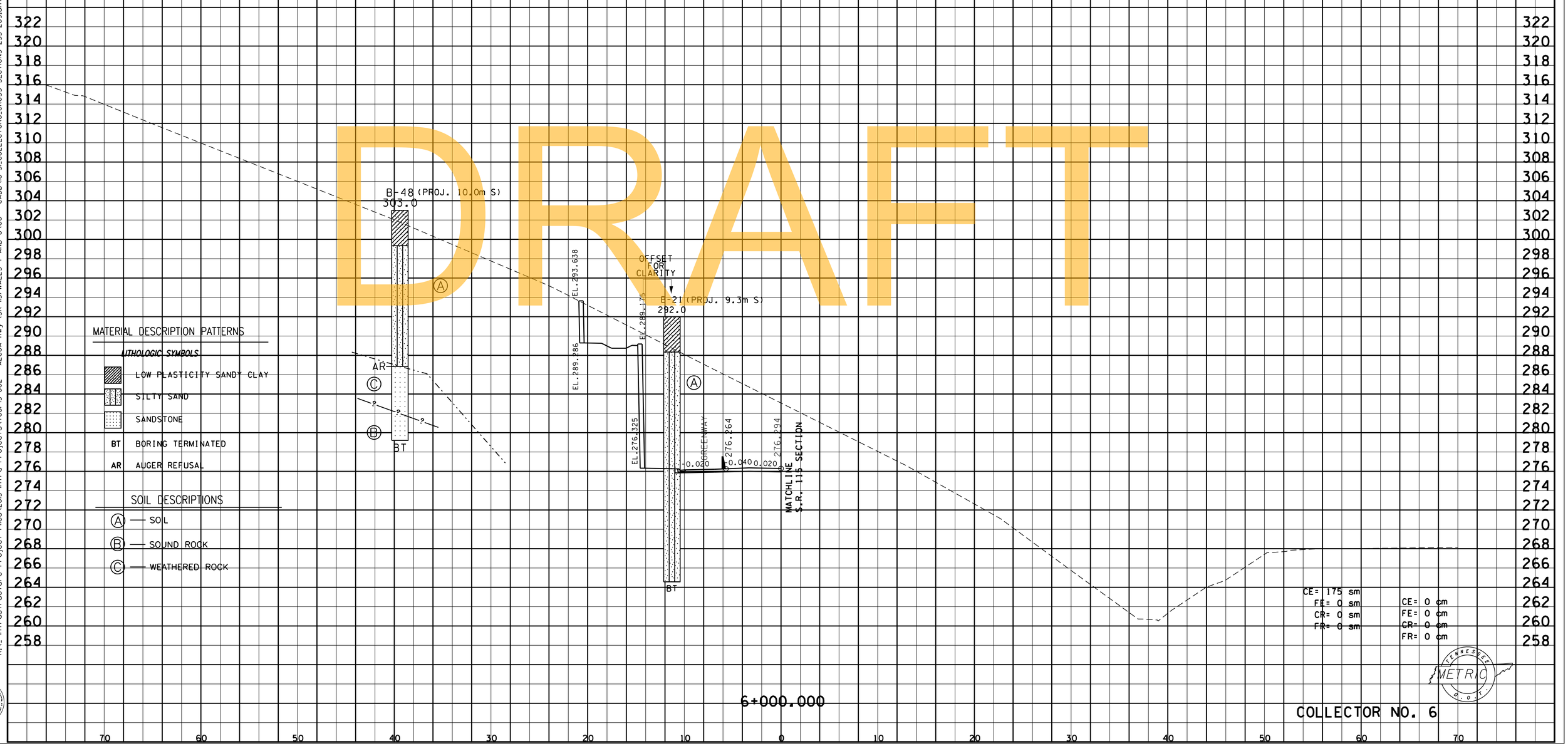

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COLLECTOR NO. 6

FILE NO.

R:_Infrastructure Project Files\2015 Infra Projects\76BI-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L_COLLECTOR6_CROSS SECTIONS 255-269.sht

9/3/2015

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	196
CONST.	2016	47026-3279-14	256

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
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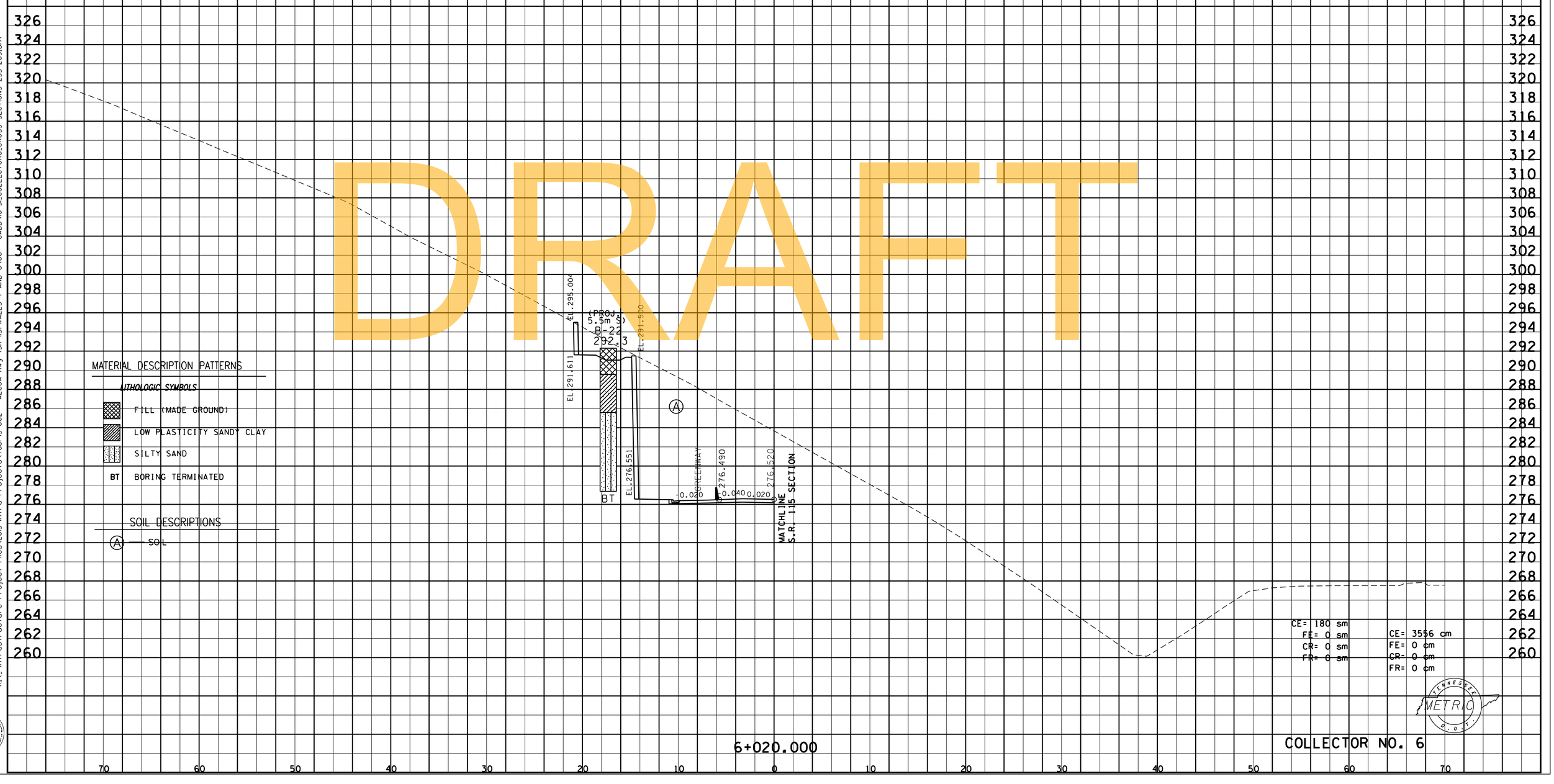

FILE NO.

R:_ Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L_COLLECTOR6_CROSS SECTIONS 255-269.sht

9/3/2015

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	197
CONST.	2016	47026-3279-14	257

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

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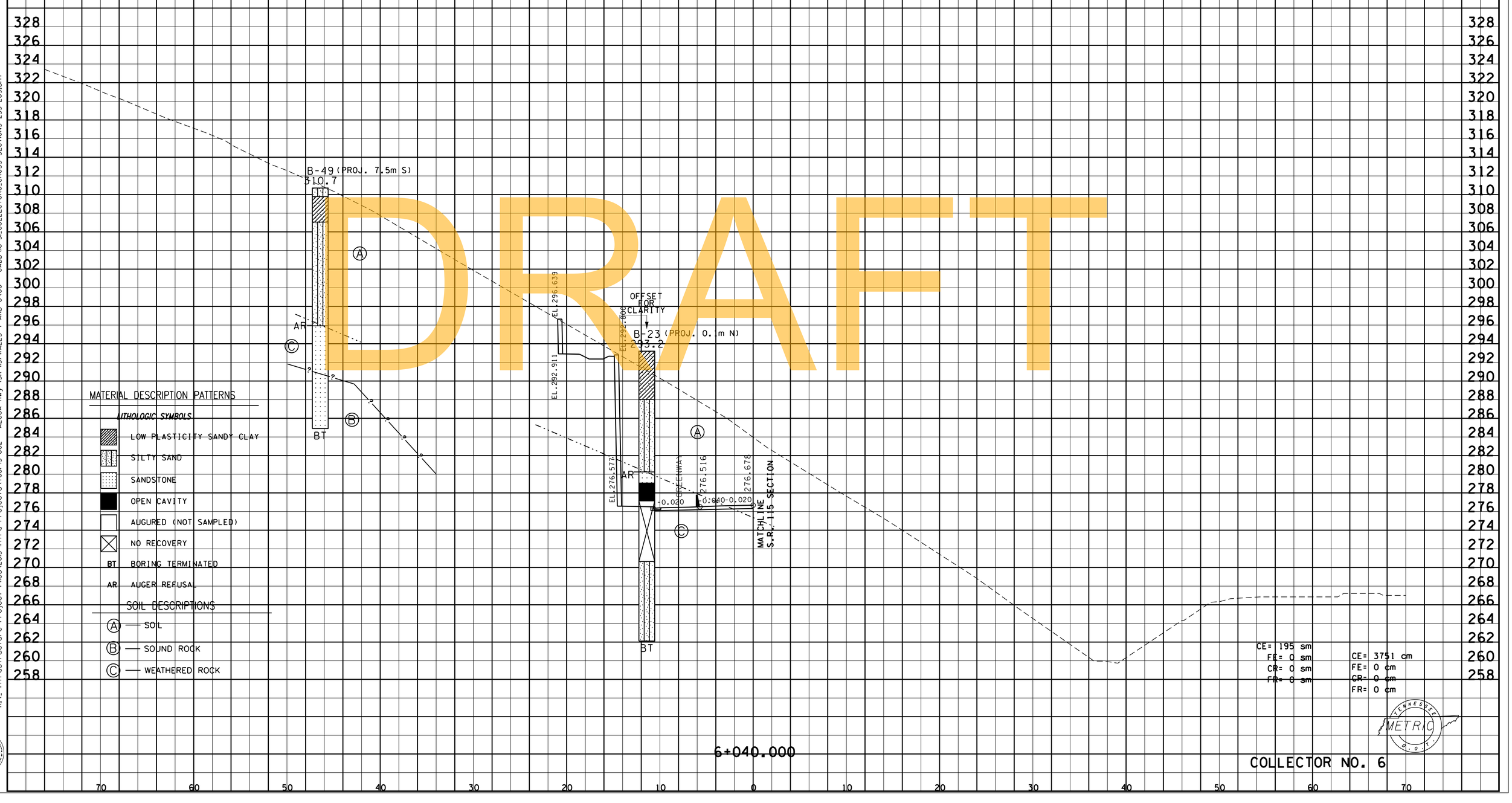

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COLLECTOR NO. 6

R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L COLLECTOR6_CROSS SECTIONS 255-269.sht
9/3/2015
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	198
CONST.	2016	47026-3279-14	258

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
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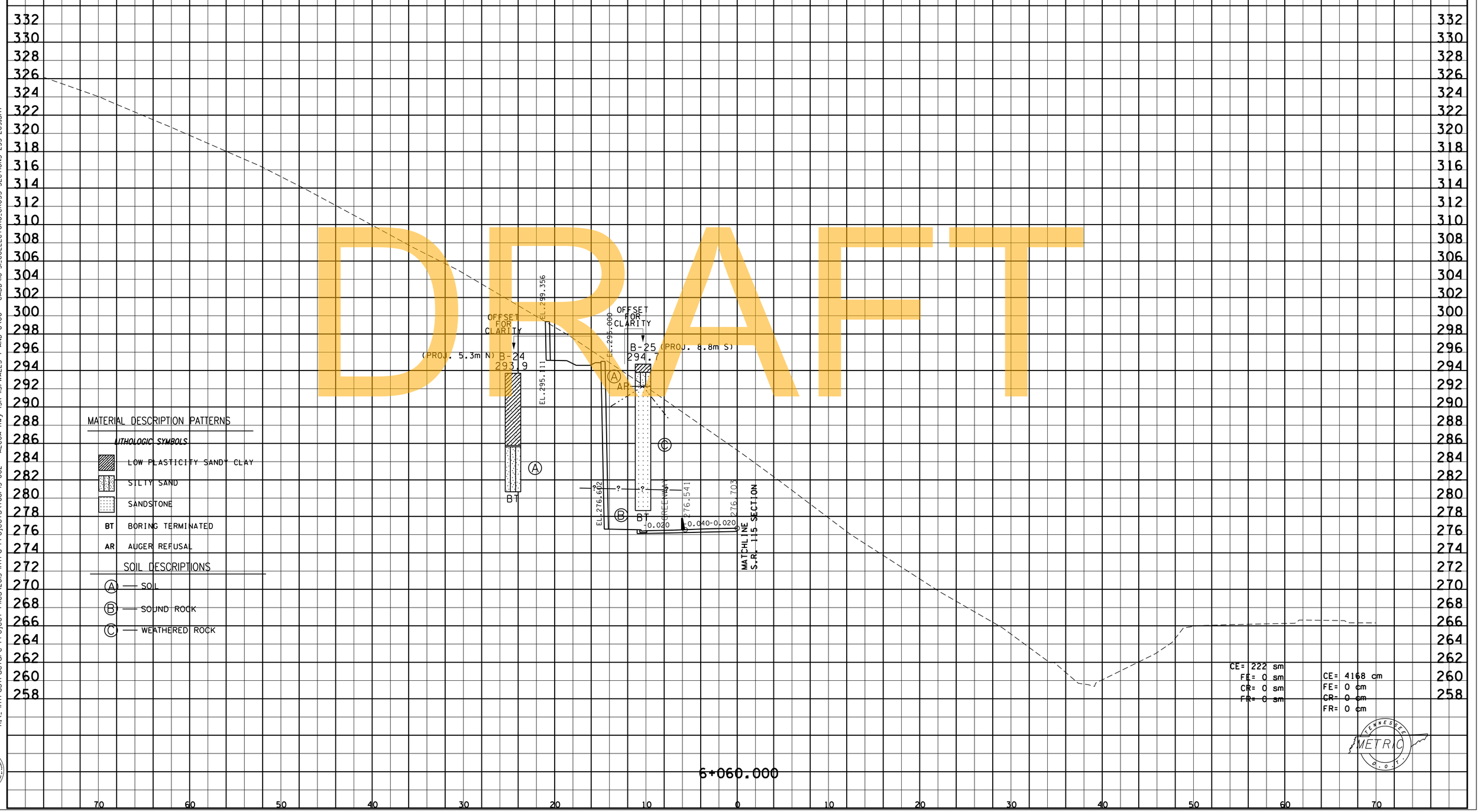

FILE NO.

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9/3/2015

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	199
CONST.	2016	47026-3279-14	259

REV. 28-FEB-2003
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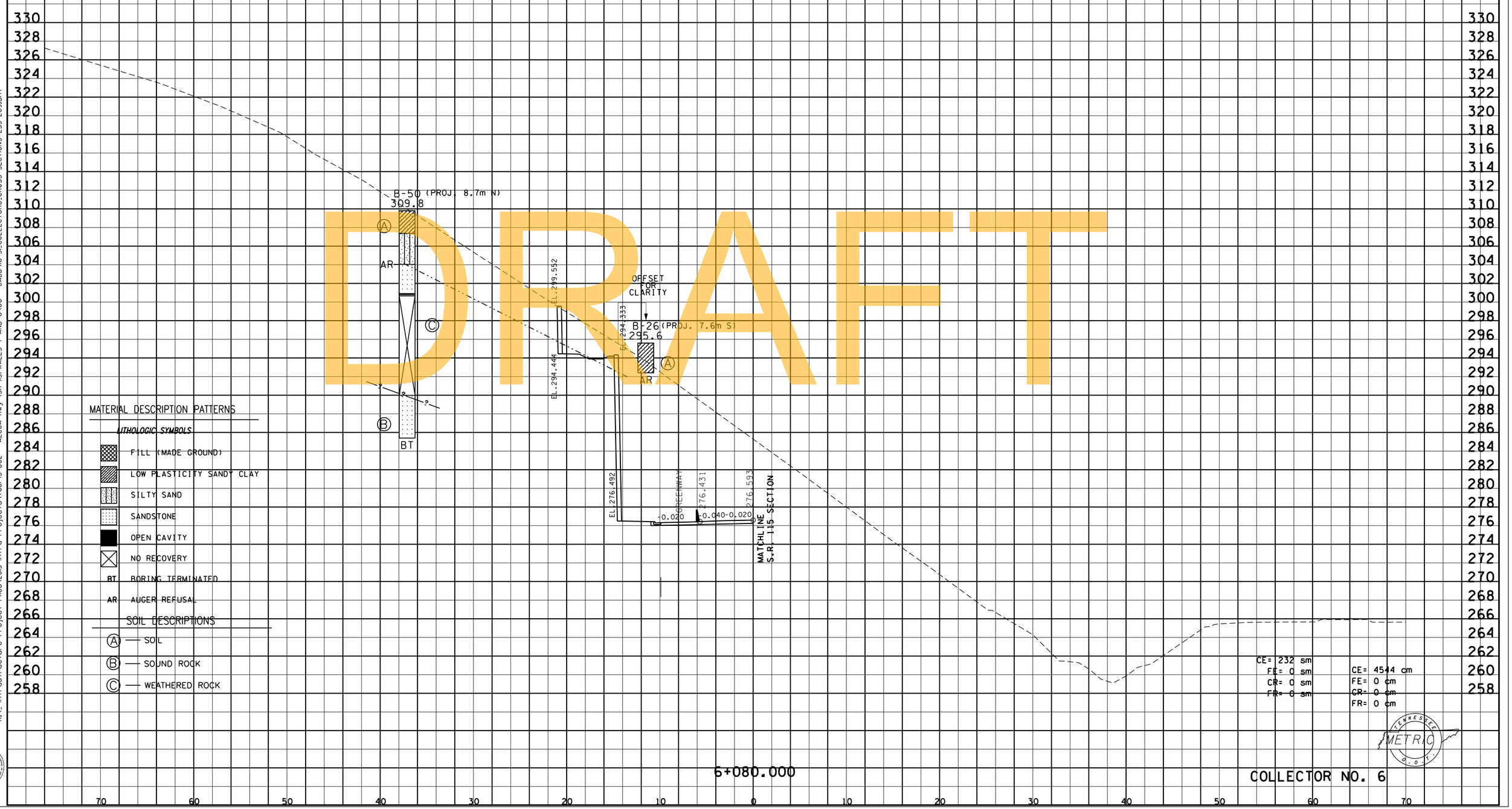

COLLECTOR NO. 6

9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\76B1-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L COLLECTOR6.CROSS SECTIONS 255-269.sht

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	200
CONST.	2016	47026-3279-14	260

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
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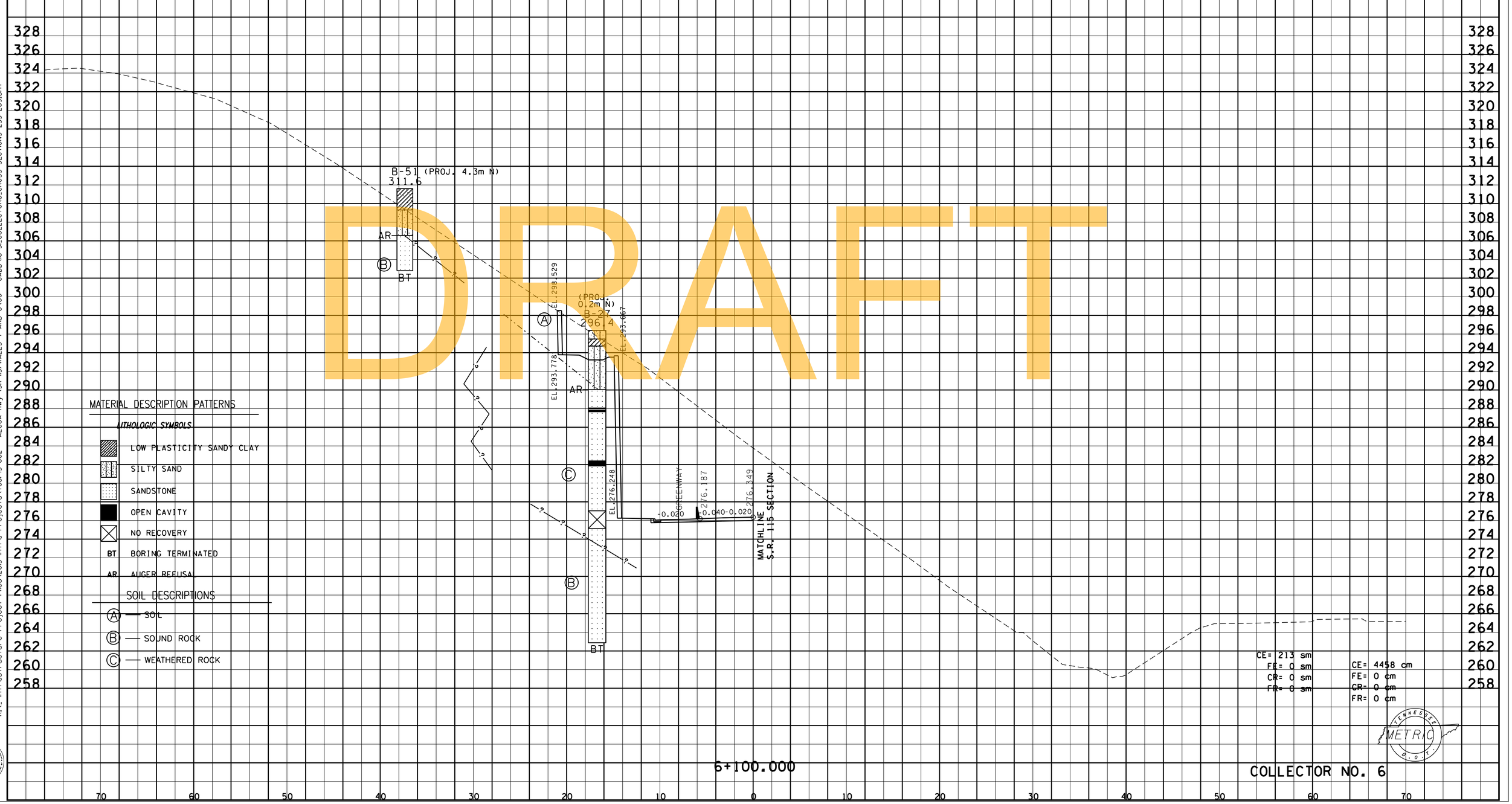

MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

- LOW PLASTICITY SANDY CLAY
- SILTY SAND
- SANDSTONE
- OPEN CAVITY
- NO RECOVERY
- BT BORING TERMINATED
- AR AUGER REFUSAL

SOIL DESCRIPTIONS

- (A) — SOIL
- (B) — SOUND ROCK
- (C) — WEATHERED ROCK

DRAFT

9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L COLLECTOR6_CROSS SECTIONS 255-269.sht

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	201
CONST.	2016	47026-3279-14	261

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

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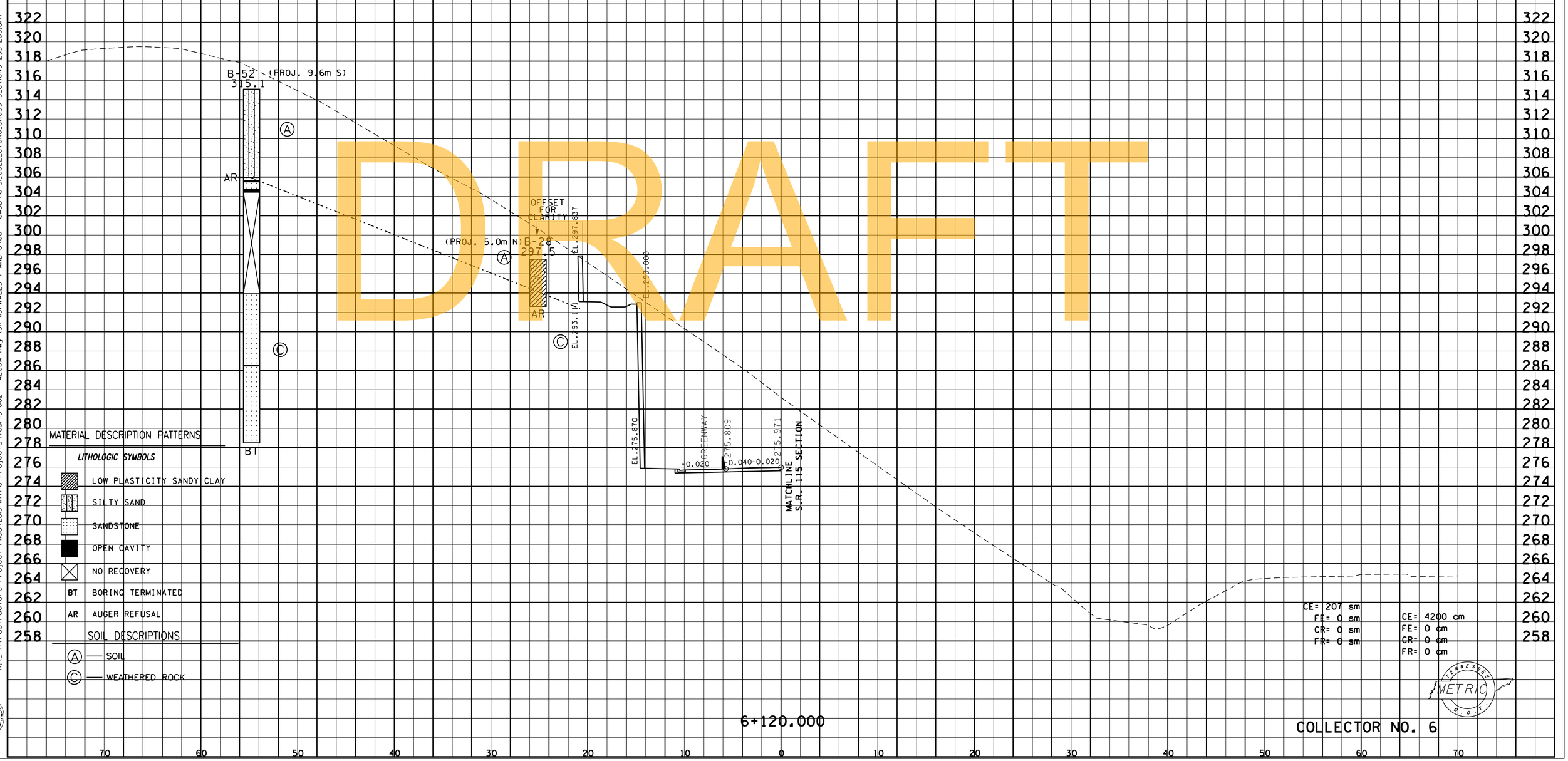


COLLECTOR NO. 6

R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L COLLECTOR6_CROSS SECTIONS 255-269.sht
9/3/2015

Survey & Design Division

TENNESSEE METRIC D.O.T.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	202
CONST.	2016	47026-3279-14	262

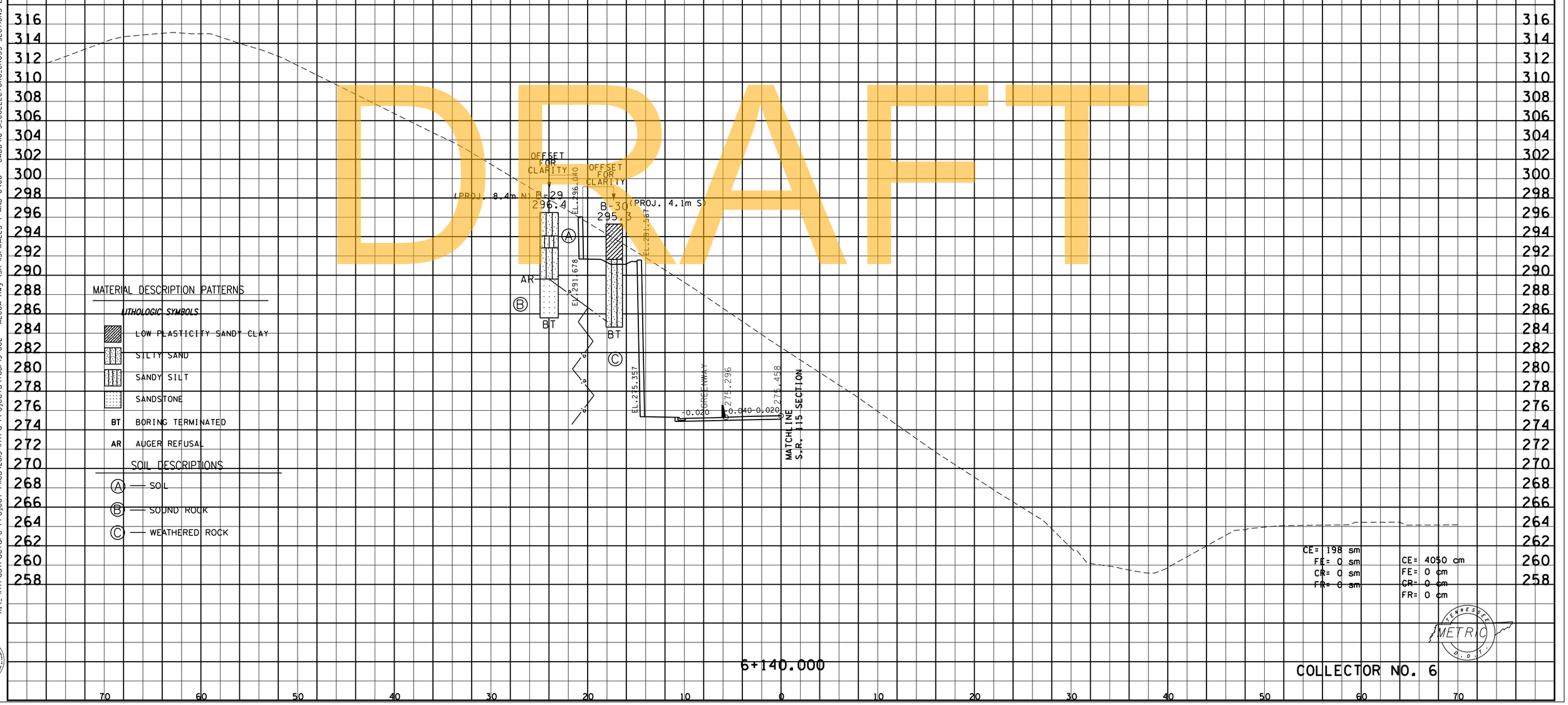
REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.



R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L_COLLECTOR6_CROSS SECTIONS 255-269.sht

9/3/2015

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	203
CONST.	2016	47026-3279-14	263

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.

CONTRACTOR NOTES:

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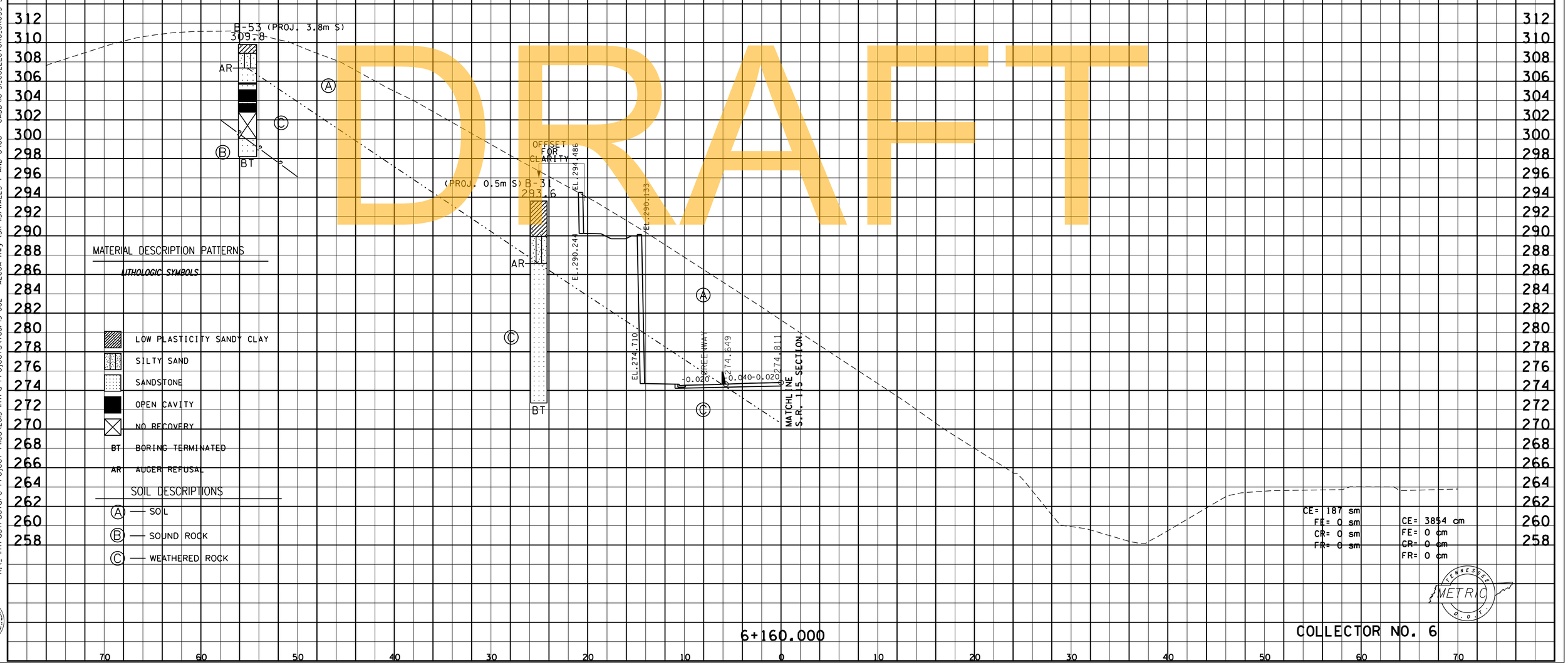

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COLLECTOR NO. 6

9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\T68I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L COLLECTOR6_CROSS SECTIONS 255-269.sht

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	204
CONST.	2016	47026-3279-14	264

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

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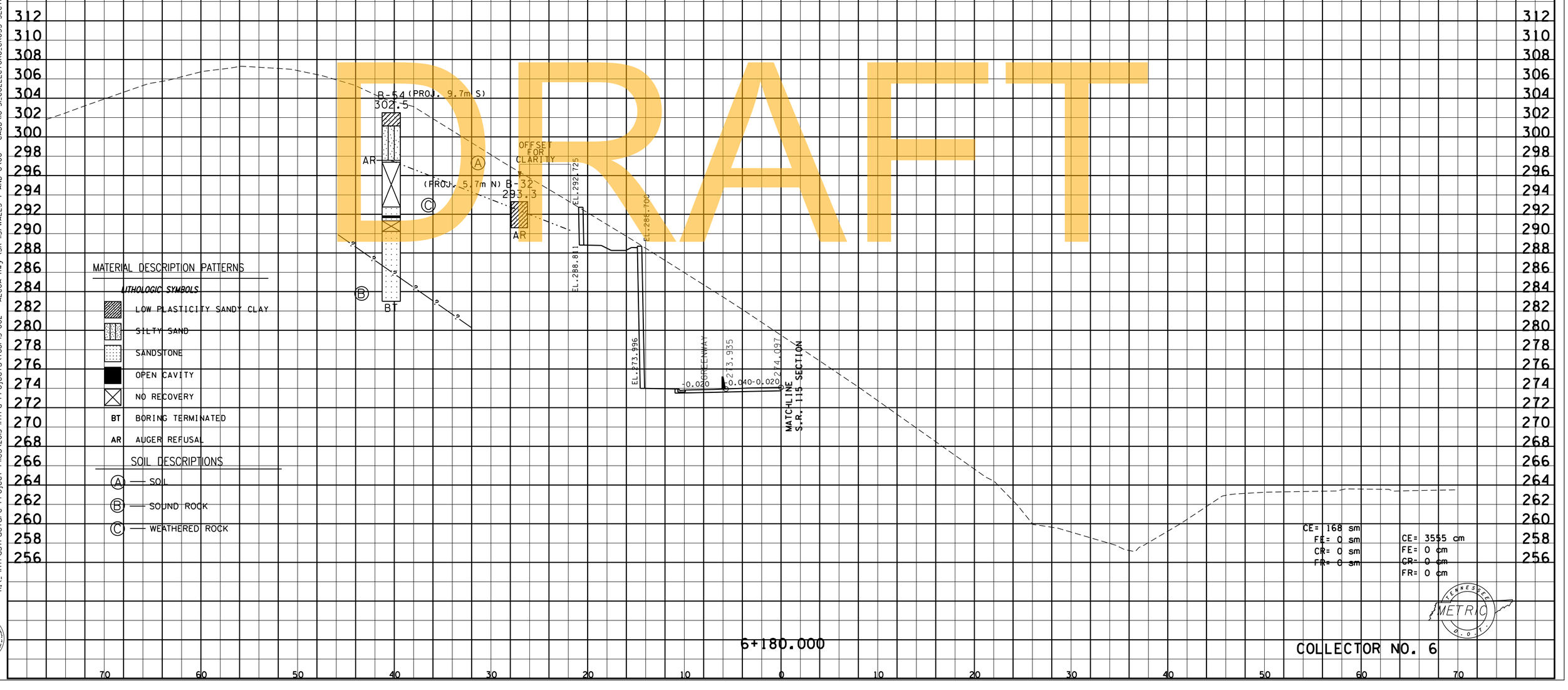

COLLECTOR NO. 6

R:_ Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L COLLECTOR6_CROSS SECTIONS 255-269.sht
9/3/2015

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	205
CONST.	2016	47026-3279-14	265

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.

CONTRACTOR NOTES:

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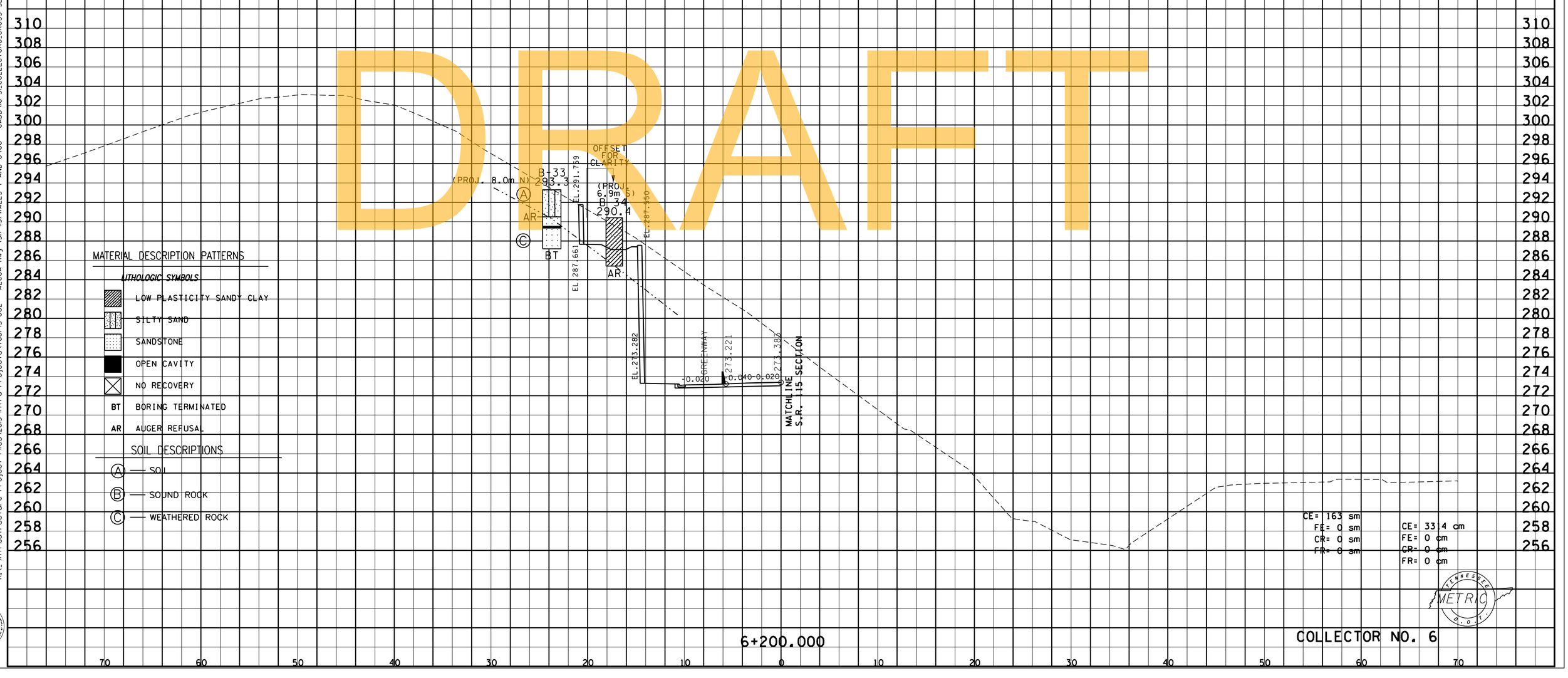

COLLECTOR NO. 6

R:_ Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L COLLECTOR6_CROSS SECTIONS 255-269.sht
9/3/2015

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	206
CONST.	2016	47026-3279-14	266

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

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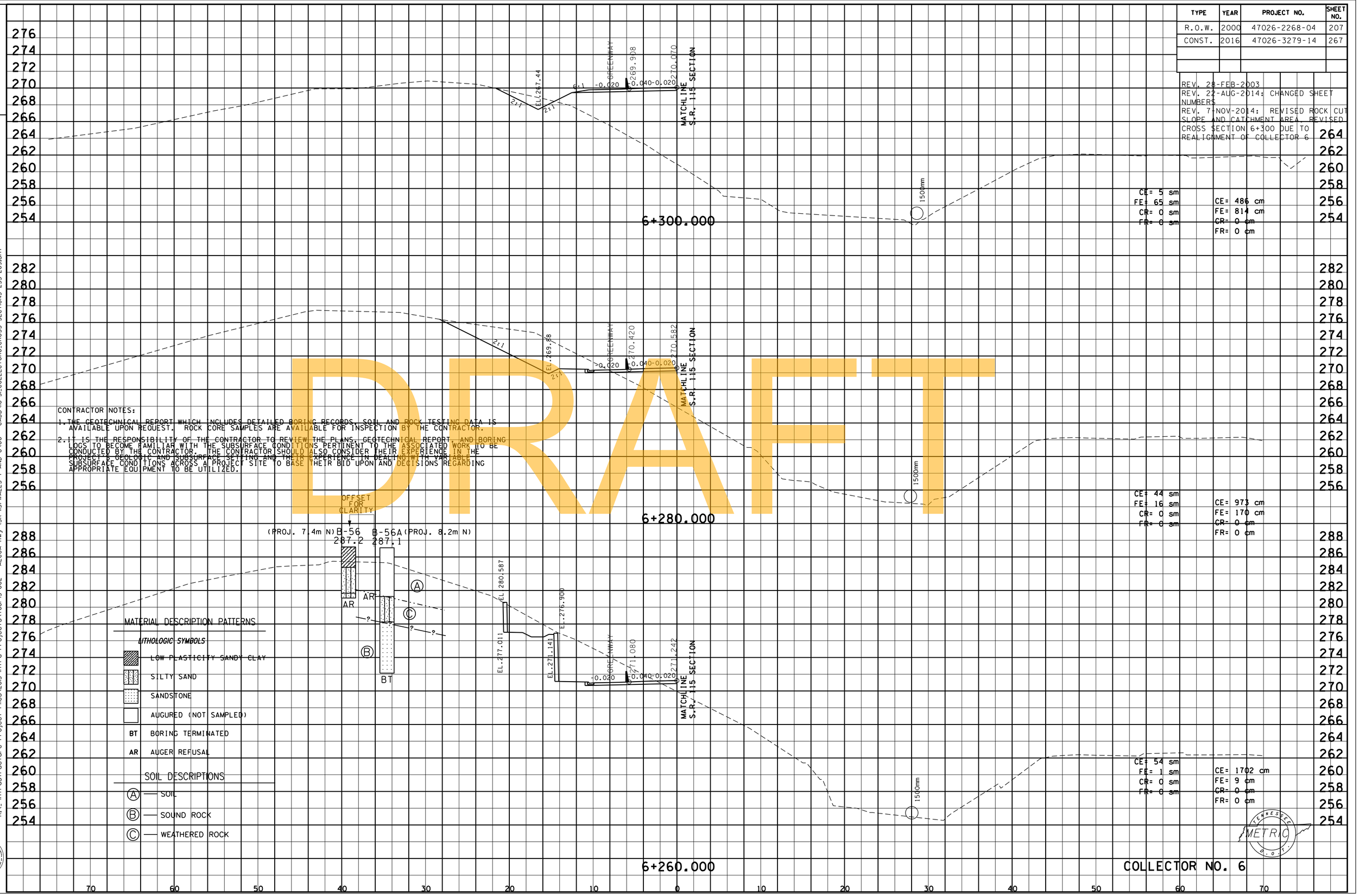
DRAFT

9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\T68I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3\COLLECTOR6_CROSS SECTIONS 255-269.sht

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	207
CONST.	2016	47026-3279-14	267

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA. REVISED CROSS SECTION 6+300 DUE TO REALIGNMENT OF COLLECTOR 6



CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.
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DRAFT

MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

- LOW PLASTICITY SANDY CLAY
- SILTY SAND
- SANDSTONE
- AUGURED (NOT SAMPLED)
- BT — BORING TERMINATED
- AR — AUGER REFUSAL

SOIL DESCRIPTIONS

- Ⓐ — SOIL
- Ⓑ — SOUND ROCK
- Ⓒ — WEATHERED ROCK

FILE NO.

COLLECTOR NO. 6

TENNESSEE METRIC D.O.T.

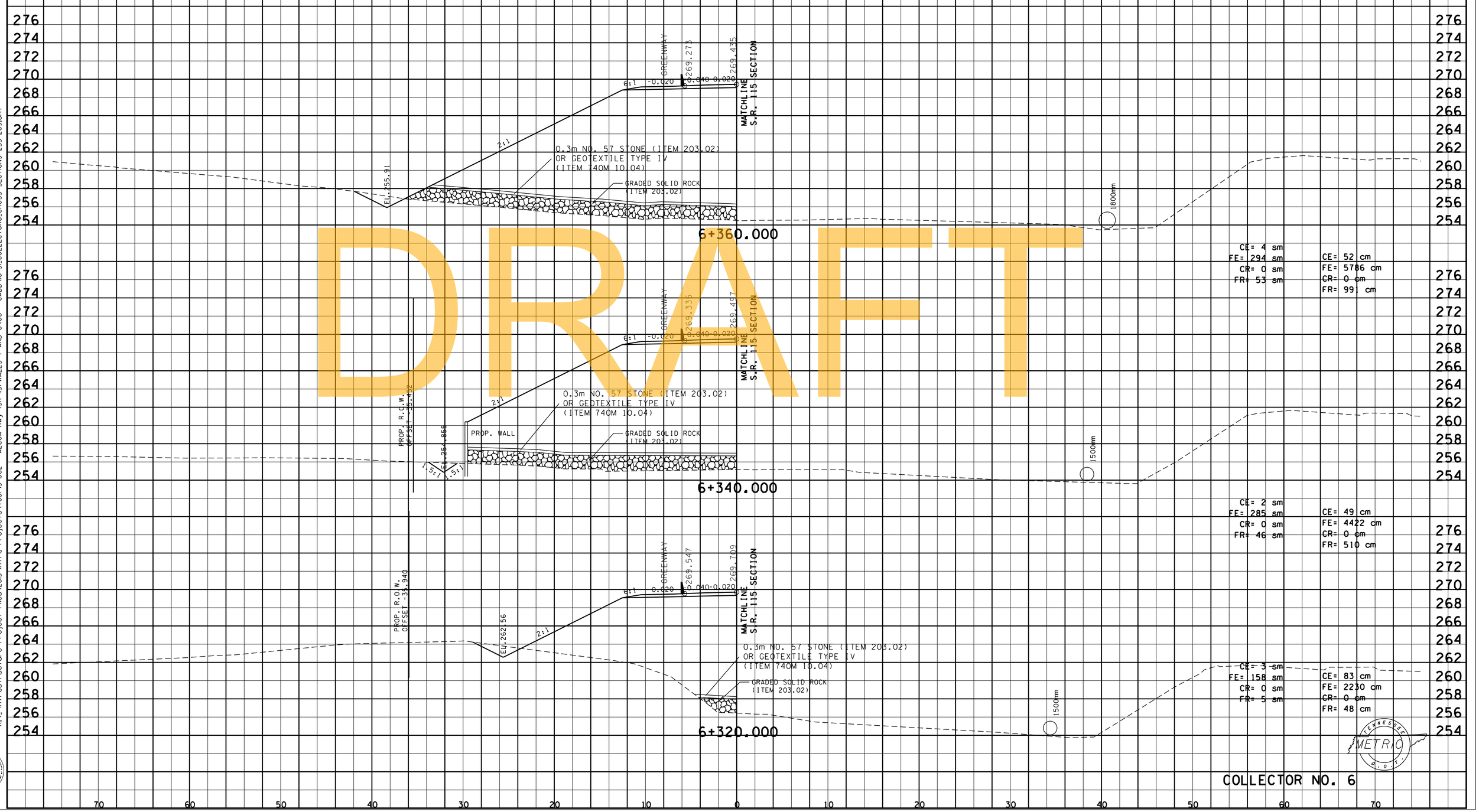
Survey & Design Division

9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L_COLLECTOR6_CROSS SECTIONS 255-269.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	208
CONST.	2016	47026-3279-14	268

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED CROSS SECTIONS DUE TO REALIGNMENT OF COLLECTOR 6

FILE NO.



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COLLECTOR NO. 6

9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L_COLLECTOR6_CROSS SECTIONS 255-269.sht

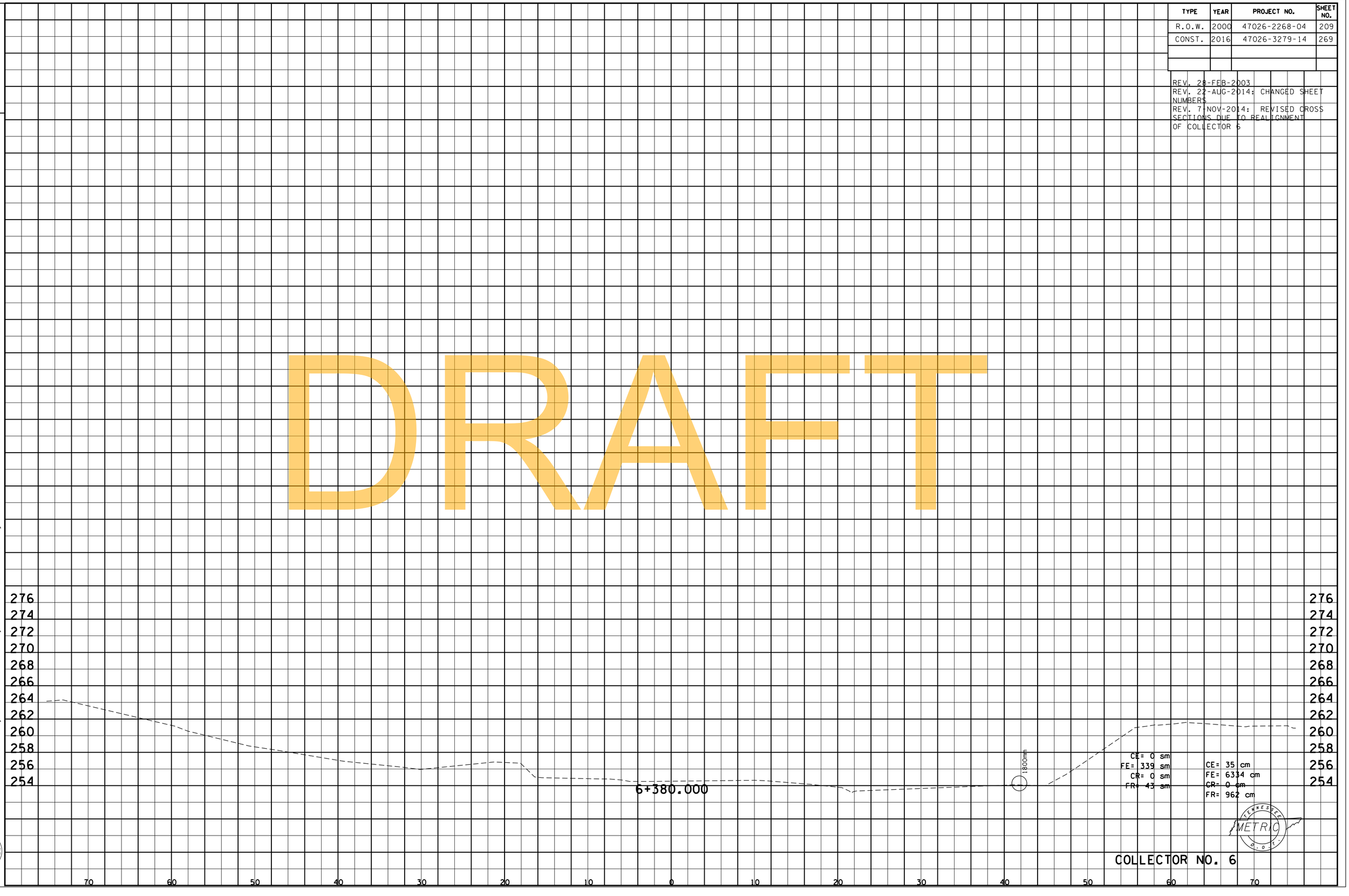
Survey & Design Division

TENNESSEE METRIC D.O.T.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	209
CONST.	2016	47026-3279-14	269

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED CROSS SECTIONS DUE TO REALIGNMENT OF COLLECTOR 6

FILE NO.



9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-15-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\16-3L COLLECTOR6_CROSS SECTIONS 255-269.sht

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	210
CONST.	2016	47026-3279-14	270

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

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MATERIAL DESCRIPTION PATTERNS

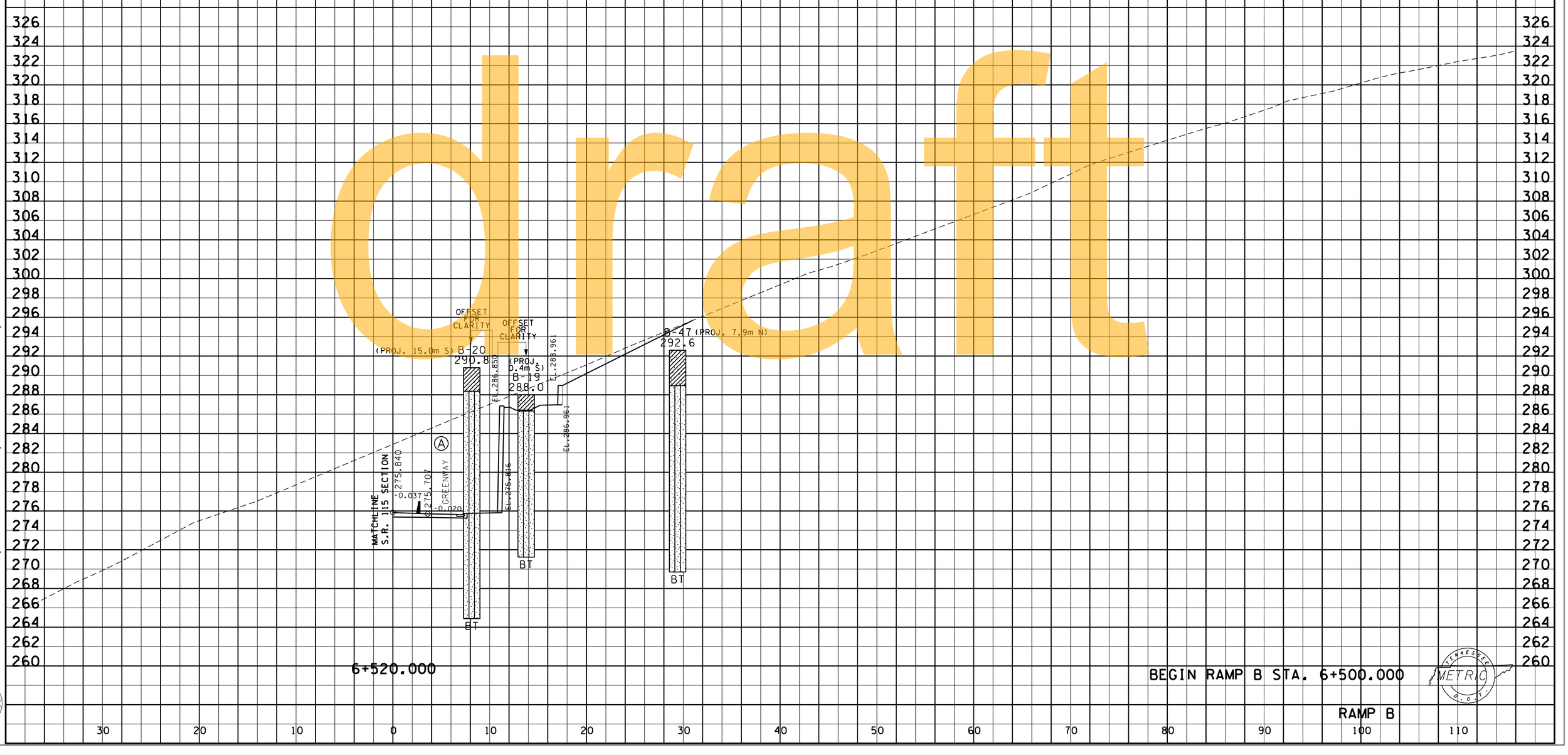
LITHOLOGIC SYMBOLS

LOW PLASTICITY SANDY CLAY

SILTY SAND

SOIL DESCRIPTIONS

(A) — SOIL



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9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\32-4L_RAMP_B_CROSS SECTIONS 270-279.sht

Survey & Design Division

TENNESSEE DEPARTMENT OF TRANSPORTATION METRIC

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	211
CONST.	2016	47026-3279-14	271

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

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MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

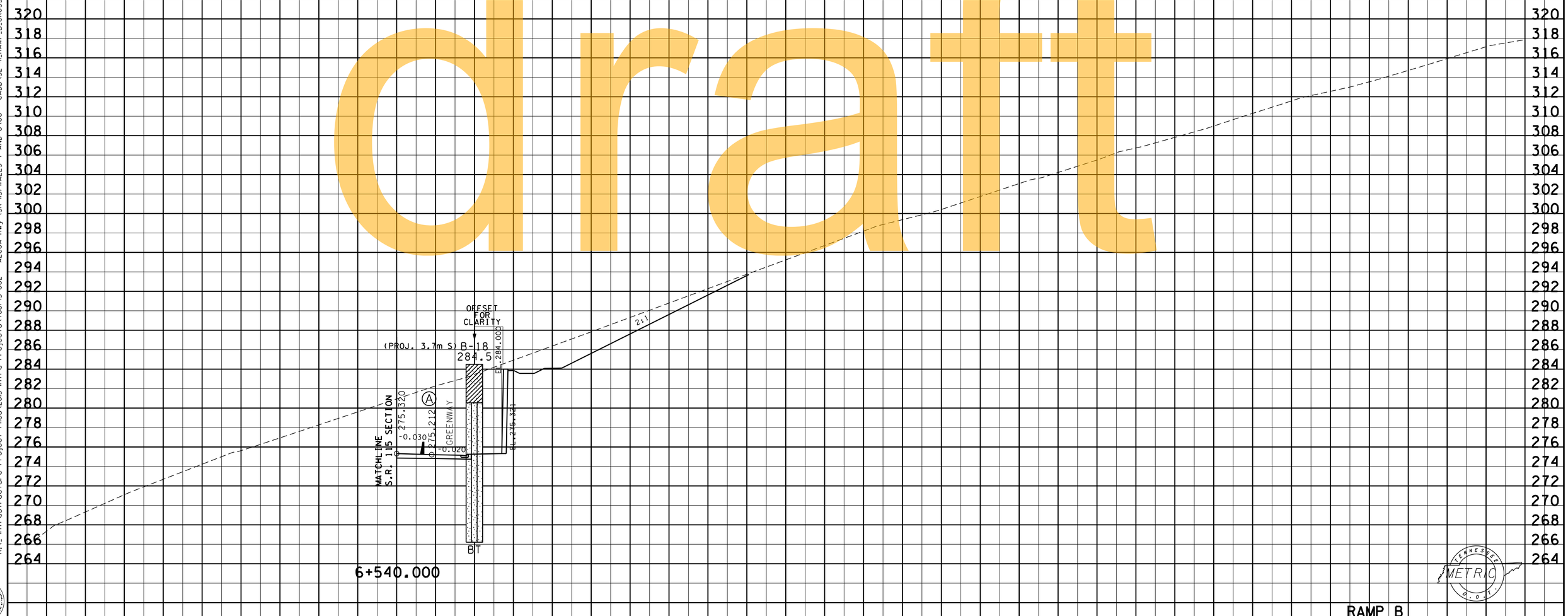
LOW PLASTICITY SANDY CLAY

SILTY SAND

BT BORING TERMINATED

SOIL DESCRIPTIONS

(A) — SOIL



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TENNESSEE METRIC D.O.T.

R:_ Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\32-4L_RAMP_B_CROSS SECTIONS 270-279.sht

9/3/2015

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	212
CONST.	2016	47026-3279-14	272

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

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MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

LOW PLASTICITY SANDY CLAY

SILTY SAND

BT BORING TERMINATED

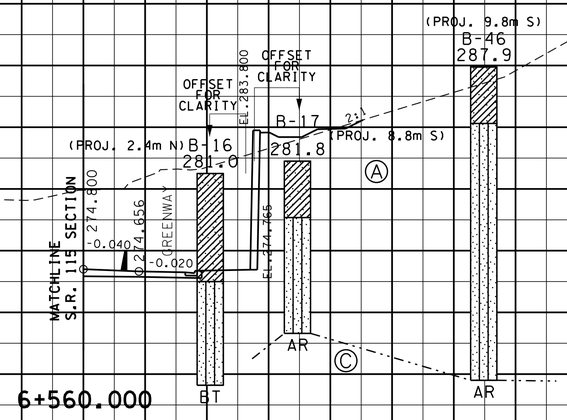
AR AUGER REFUSAL

SOIL DESCRIPTIONS

Ⓐ — SOIL

Ⓒ — WEATHERED ROCK

draft



RAMP B

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	213
CONST.	2016	47026-3279-14	273

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.

CONTRACTOR NOTES:

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MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

FILL (MADE GROUND)

LOW PLASTICITY SANDY CLAY

SILTY SAND

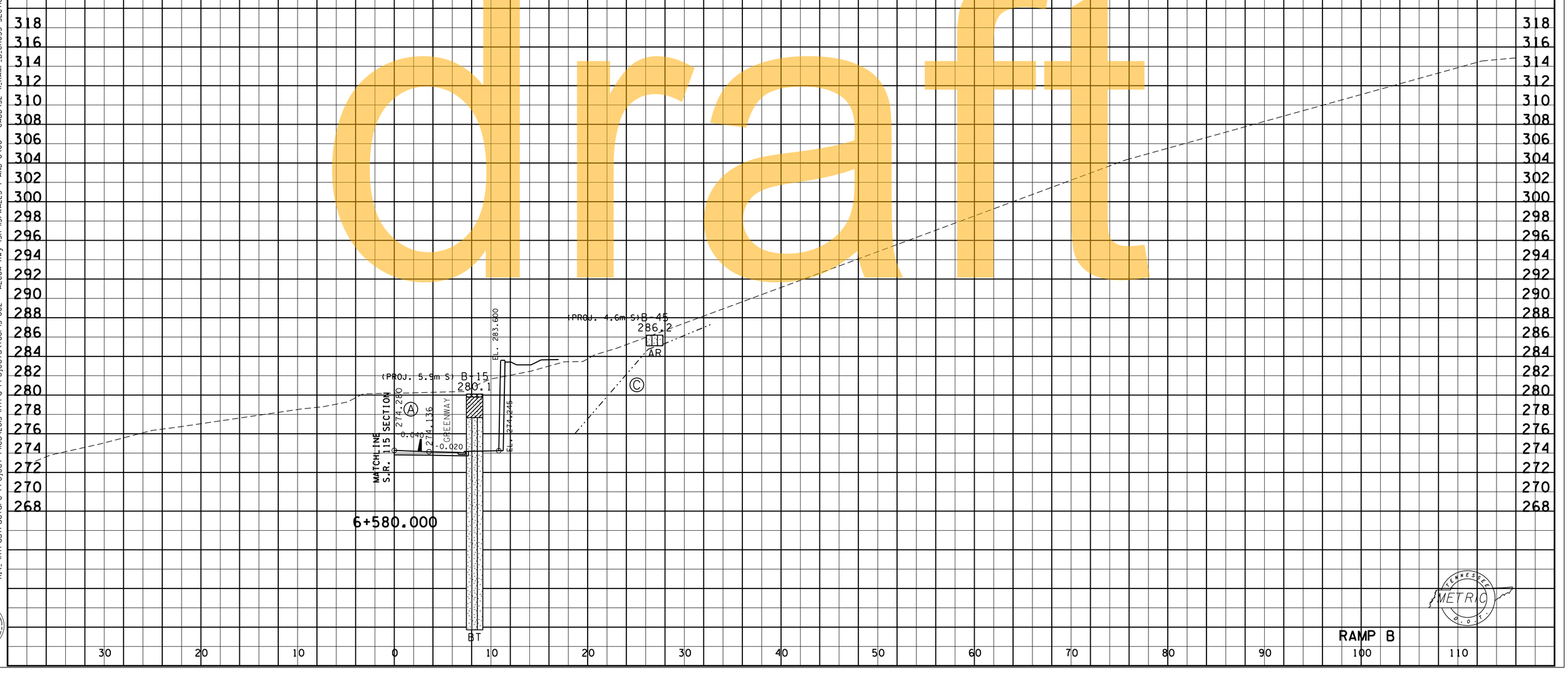
BT BORING TERMINATED

AR AUGER REFUSAL

SOIL DESCRIPTIONS

Ⓐ — SOIL

Ⓒ — WEATHERED ROCK



RAMP B

METRIC

9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\32-4L_RAMP_B_CROSS SECTIONS 270-279.sht

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	214
CONST.	2016	47026-3279-14	274

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.

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MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

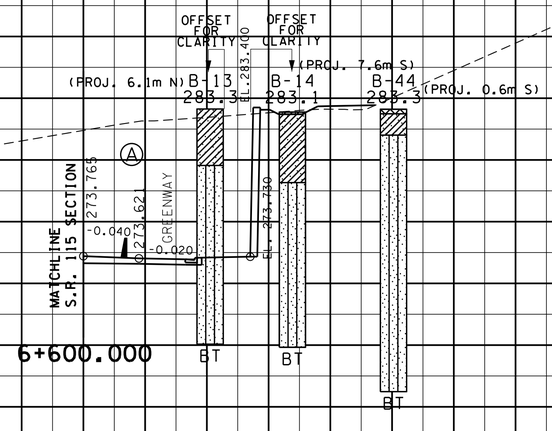
LOW PLASTICITY SANDY CLAY

SILTY SAND

BT BORING TERMINATED

SOIL DESCRIPTIONS

Ⓐ — SOIL



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RAMP B

9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\32-4L_RAMP_B_CROSS SECTIONS 270-279.sht
Survey & Design Division
TENNESSEE DEPARTMENT OF TRANSPORTATION
METRIC

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	215
CONST.	2016	47026-3279-14	275

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

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MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

LOW PLASTICITY SANDY CLAY

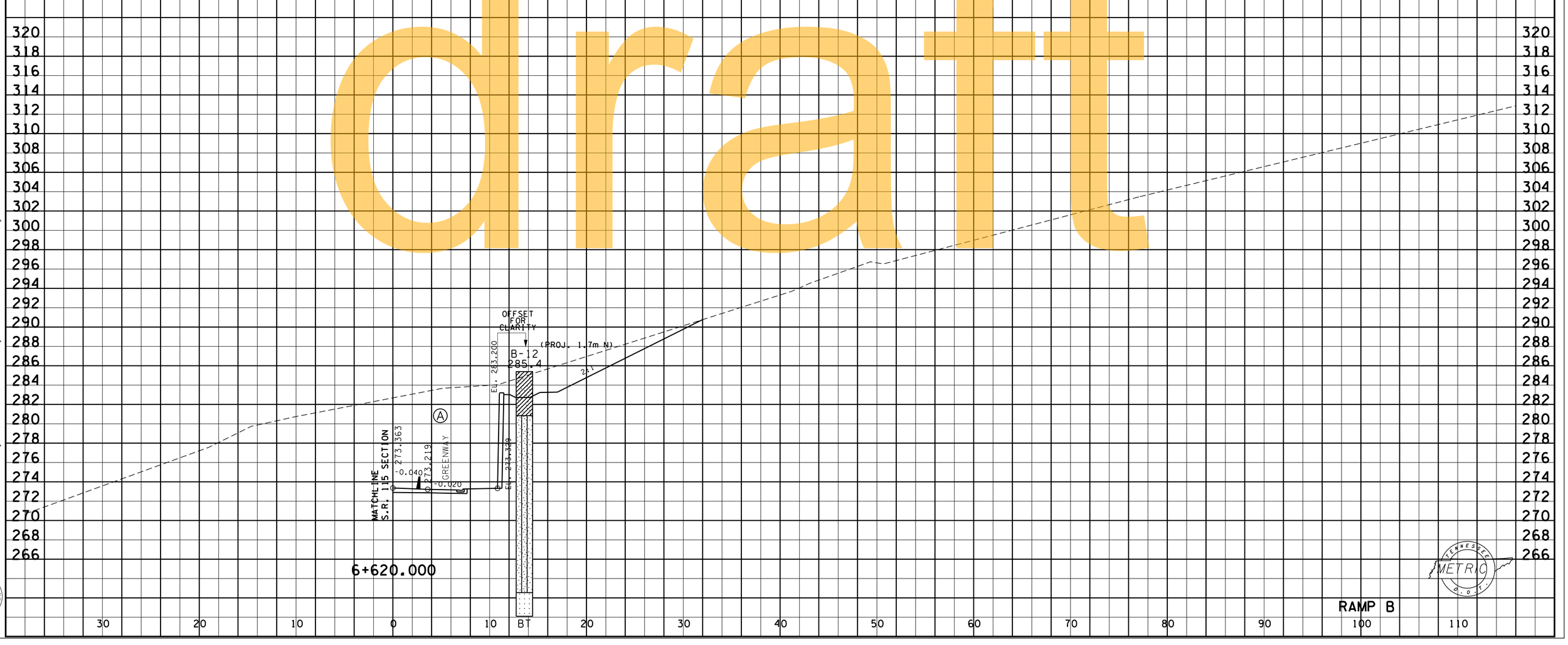
SILTY SAND

SANDSTONE

BT BORING TERMINATED

SOIL DESCRIPTIONS

(A) — SOIL



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draft

9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\32-4L_RAMP_B_CROSS SECTIONS 270-279.sht

Survey & Design Division

TENNESSEE DEPARTMENT OF TRANSPORTATION METRIC

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	216
CONST.	2016	47026-3279-14	276

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE PLANS, GEOTECHNICAL REPORT, AND BORING LOGS TO BECOME FAMILIAR WITH THE SUBSURFACE CONDITIONS PERTINENT TO THE ASSOCIATED WORK TO BE CONDUCTED BY THE CONTRACTOR. THE CONTRACTOR SHOULD ALSO CONSIDER THEIR EXPERIENCE IN THE PROJECT'S GEOLOGIC AND SUBSURFACE SETTING AND THEIR EXPERIENCE IN DEALING WITH VARIABLE SUBSURFACE CONDITIONS ACROSS A PROJECT SITE TO BASE THEIR BID UPON AND DECISIONS REGARDING APPROPRIATE EQUIPMENT TO BE UTILIZED.

MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

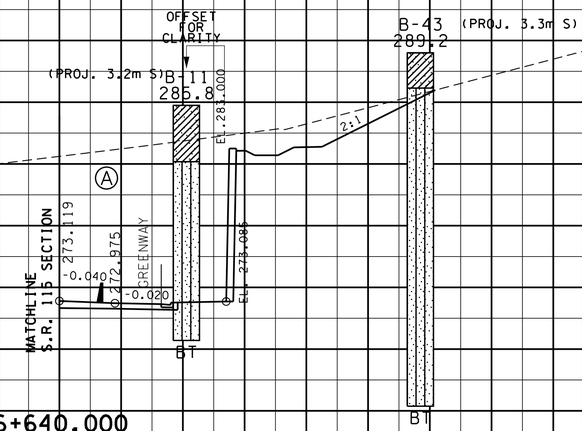
LOW PLASTICITY SANDY CLAY

SILTY SAND

BT BORING TERMINATED

SOIL DESCRIPTIONS

Ⓐ — SOIL



6+640.000

RAMP B

draft

9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\32-4L_RAMP_B_CROSS SECTIONS 270-279.sht

Survey & Design Division

TENNESSEE DEPARTMENT OF TRANSPORTATION METRIC

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	217
CONST.	2016	47026-3279-14	277

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

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MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

LOW PLASTICITY SANDY CLAY

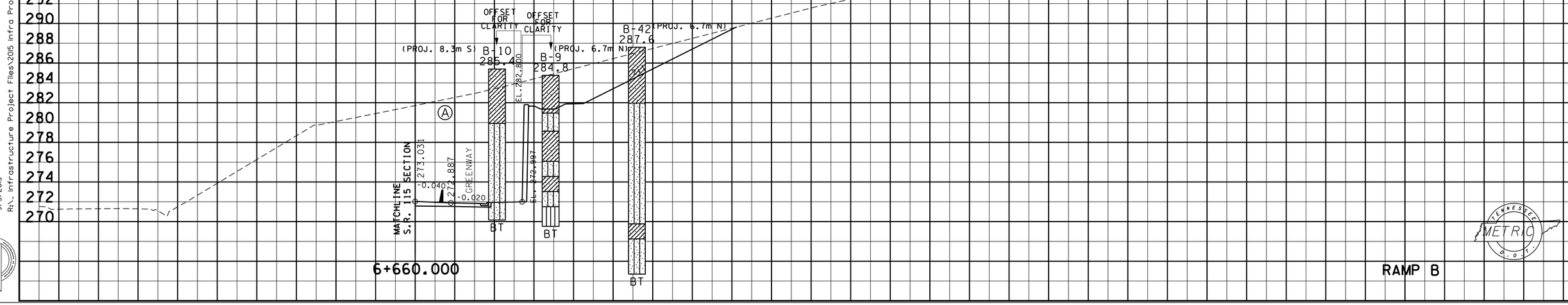
SILTY SAND

SILT

BT BORING TERMINATED

SOIL DESCRIPTIONS

Ⓐ — SOIL



draft

R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\32-4L_RAMP_B_CROSS SECTIONS 270-279.sht
9/3/2015

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	218
CONST.	2016	47026-3279-14	278

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.

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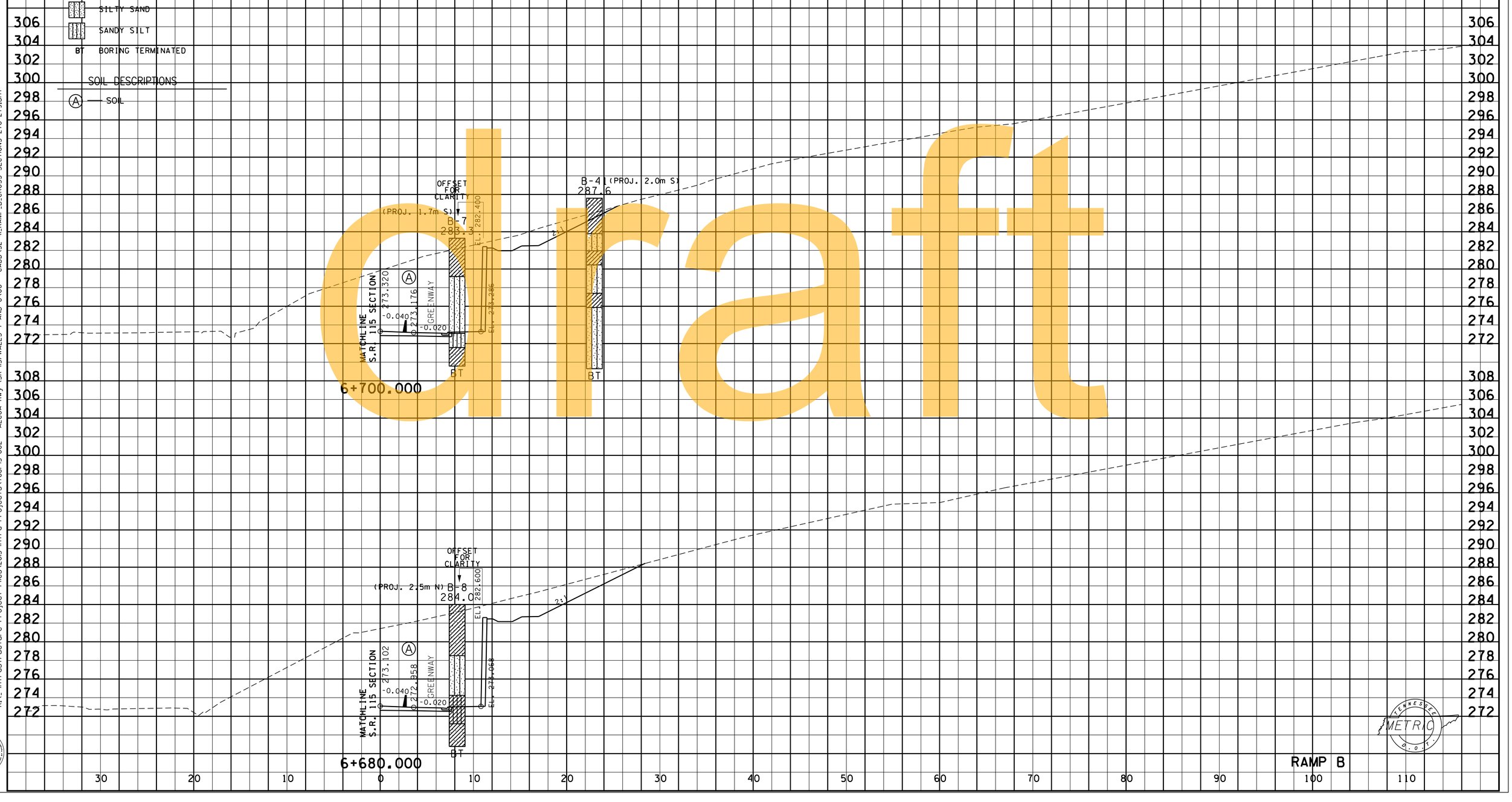
MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

- LOW PLASTICITY CLAY
- LOW PLASTICITY SANDY CLAY
- SILTY SAND
- SANDY SILT
- BT BORING TERMINATED

SOIL DESCRIPTIONS

Ⓐ — SOIL



RAMP B

draft

R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\32-4L_RAMP_B_CROSS SECTIONS 270-279.sht
9/3/2015

Survey & Design Division

TENNESSEE DOT METRIC

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	219
CONST.	2016	47026-3279-14	279

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.

CONTRACTOR NOTES:

1. THE GEOTECHNICAL REPORT WHICH INCLUDES DETAILED BORING RECORDS, SOIL AND ROCK TESTING DATA IS AVAILABLE UPON REQUEST. ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION BY THE CONTRACTOR.
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MATERIAL DESCRIPTION PATTERNS

LITHOLOGIC SYMBOLS

LOW PLASTICITY SANDY CLAY

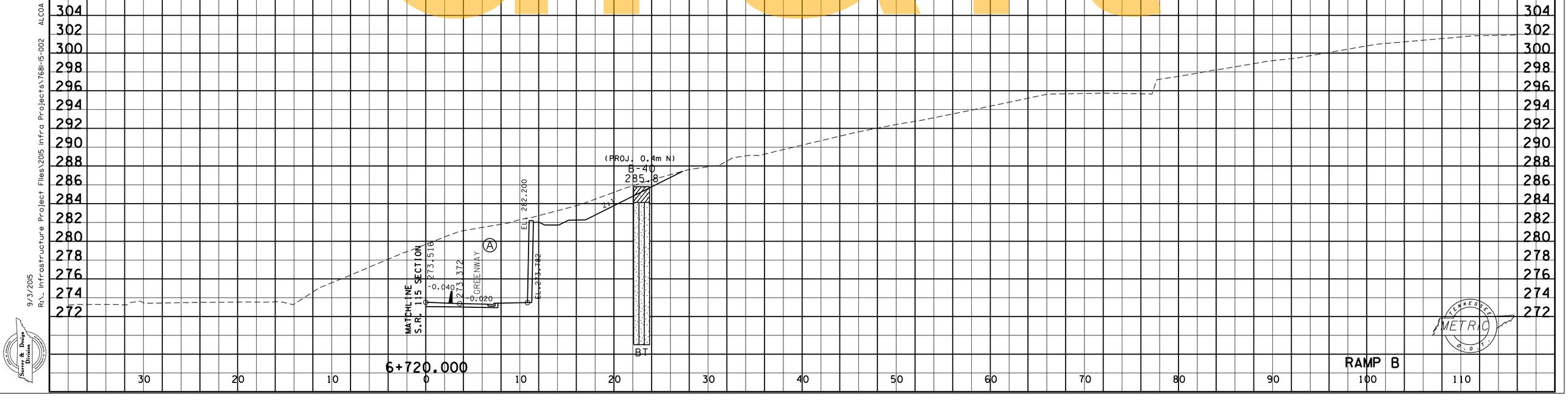
SILTY SAND

BT BORING TERMINATED

SOIL DESCRIPTIONS

Ⓐ — SOIL

draft



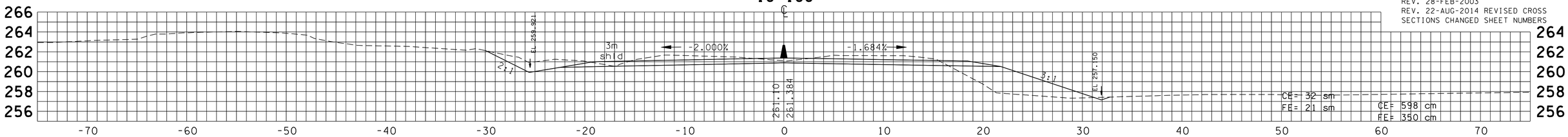
9/3/2015
R:_Infrastructure Project Files\2015 Infra Projects\768I-I5-002 ALCOA Hwy (SR 115) WALLS 7 AND 8\06 - CADD\32-4L_RAMP_B_CROSS SECTIONS 270-279.sht

Survey & Design Division

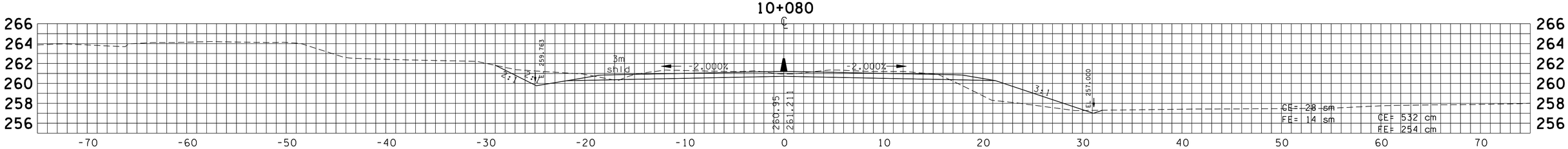
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	120
CONST.	2016	47026-3279-14	180

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

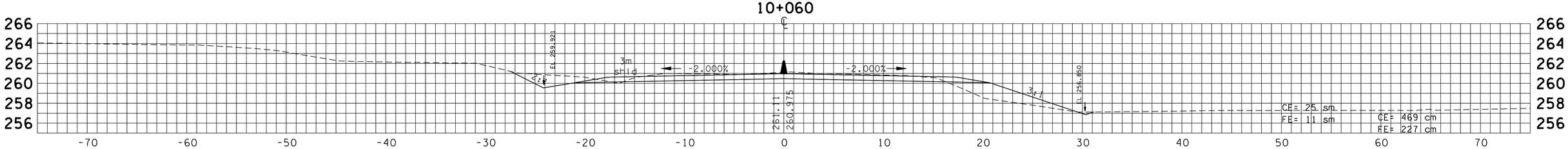
10+100



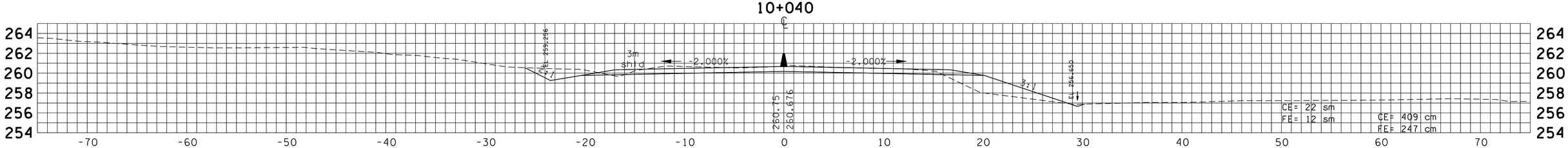
10+080



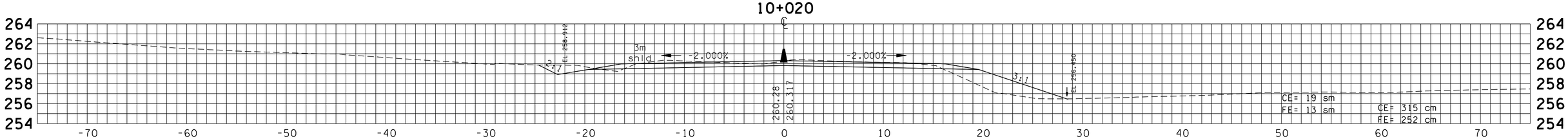
10+060



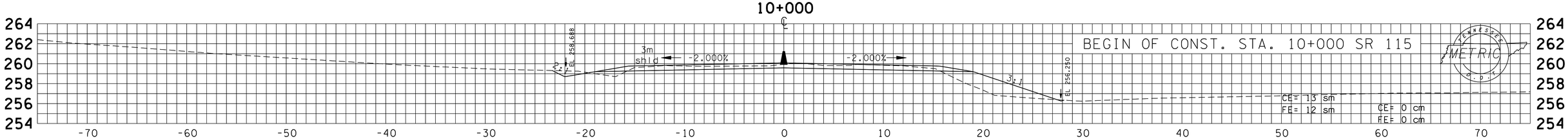
10+040



10+020



10+000



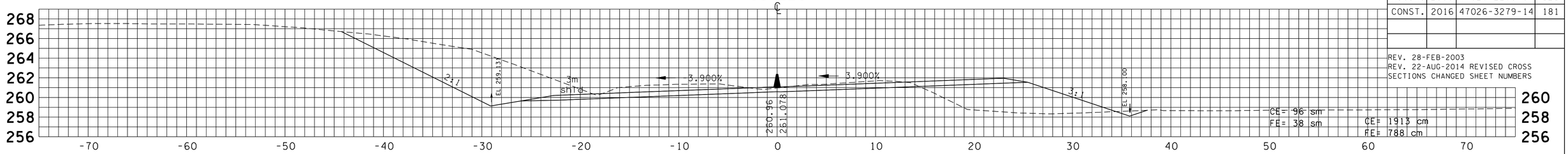
BEGIN OF CONST. STA. 10+000 SR 115

METRIC

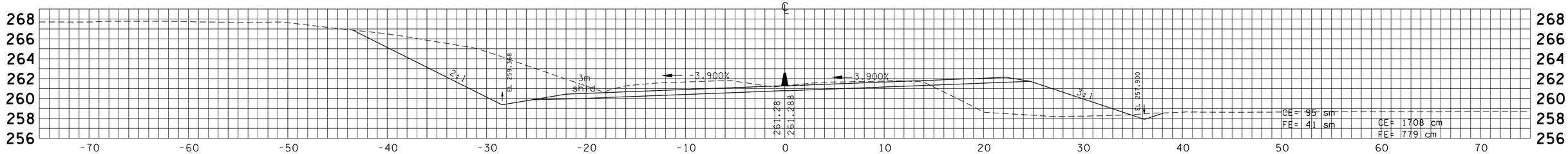
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	121
CONST.	2016	47026-3279-14	181

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

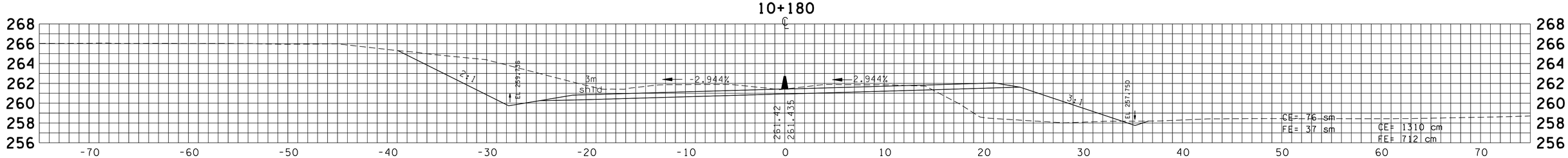
10+220



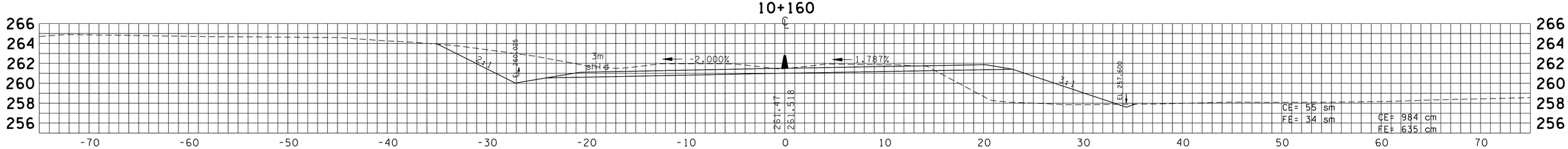
10+200



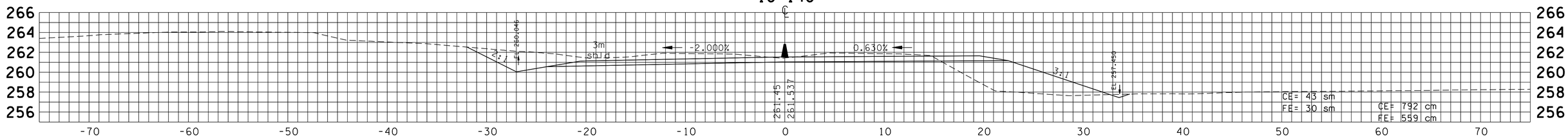
10+180



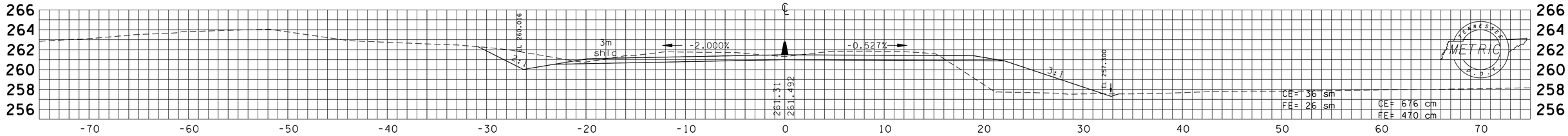
10+160



10+140



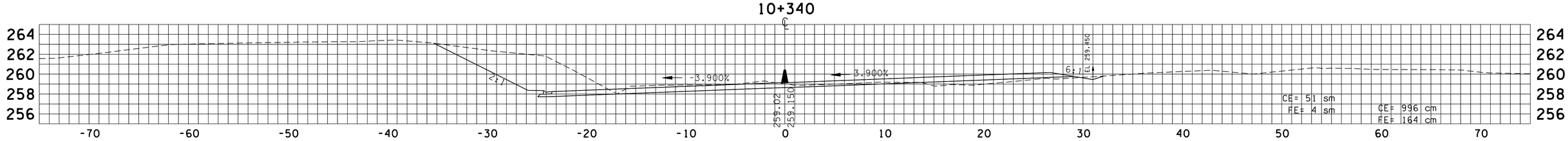
10+120



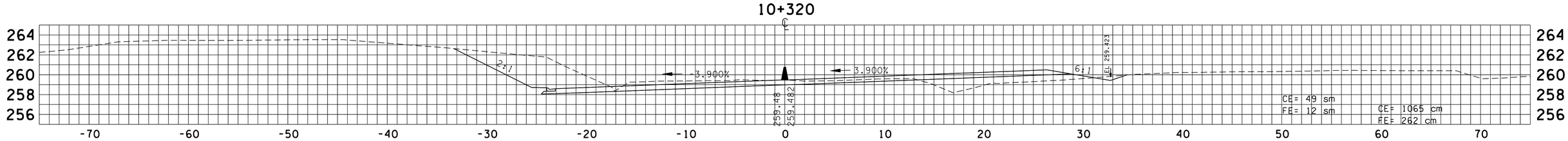
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	122
CONST.	2016	47026-3279-14	182

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

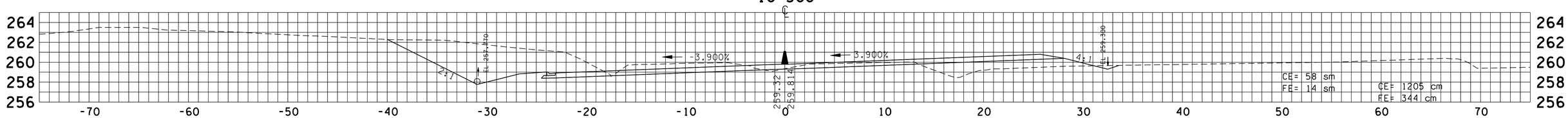
10+340



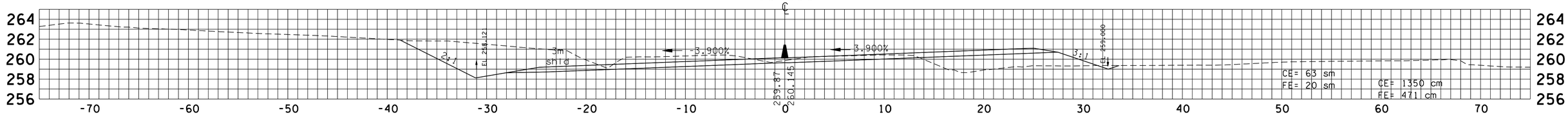
10+320



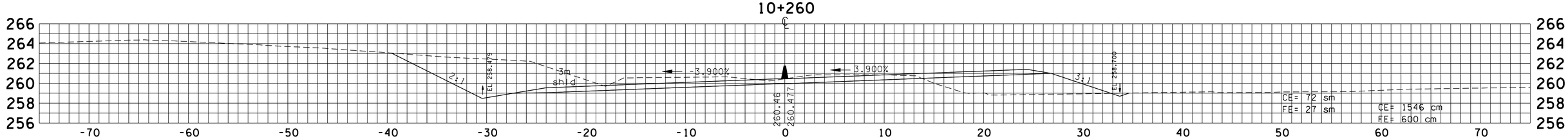
10+300



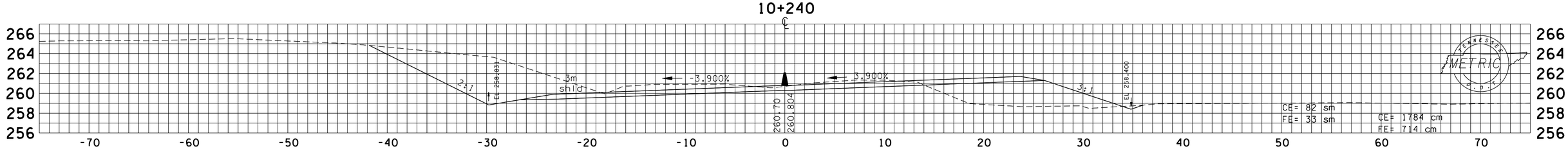
10+280



10+260

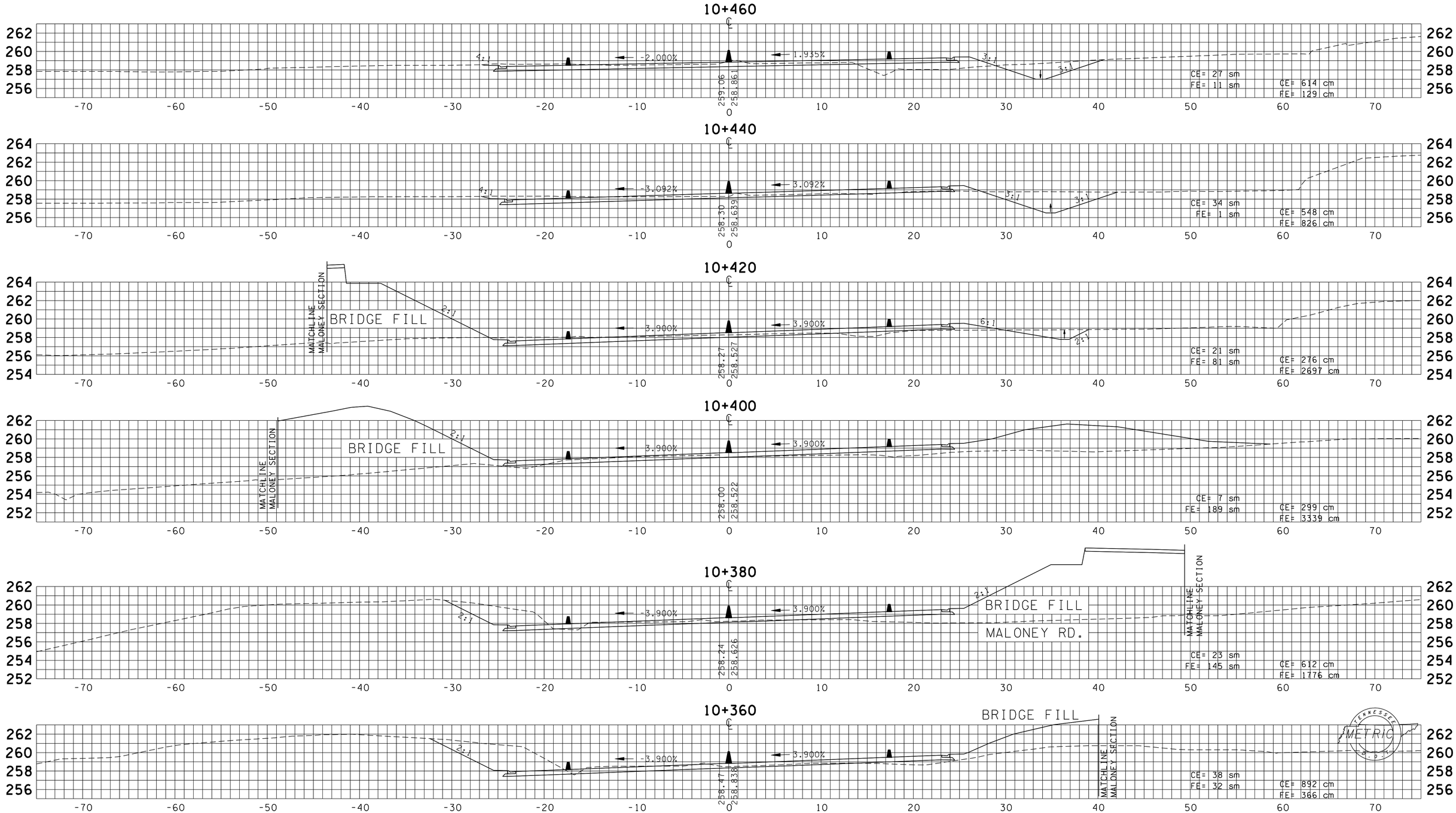


10+240



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	123
CONST.	2016	47026-3279-14	183

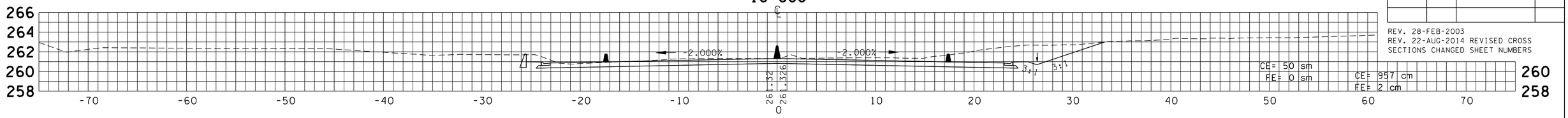
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	124
CONST.	2016	47026-3279-14	184

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

10+600



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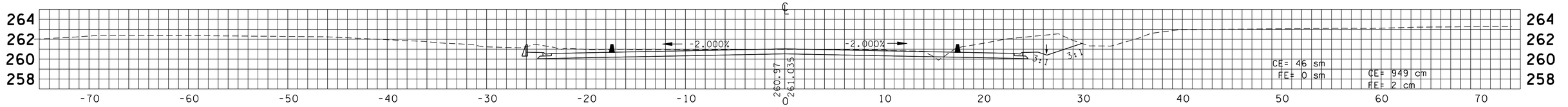
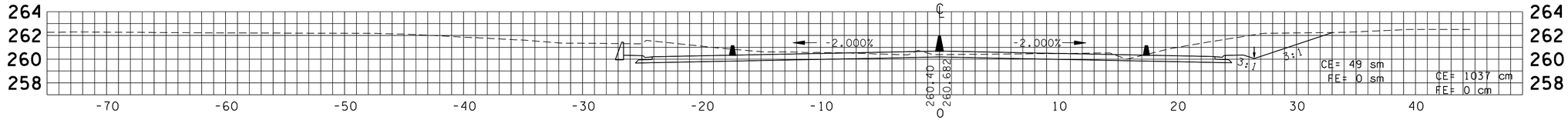


10+560



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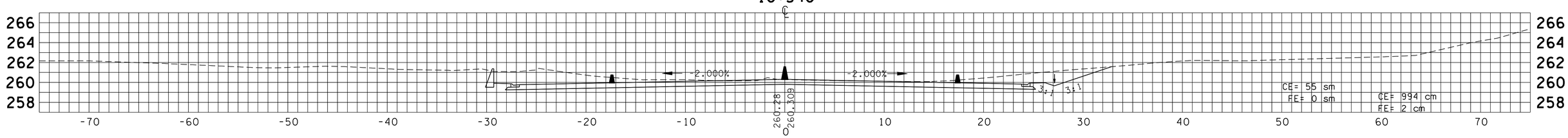
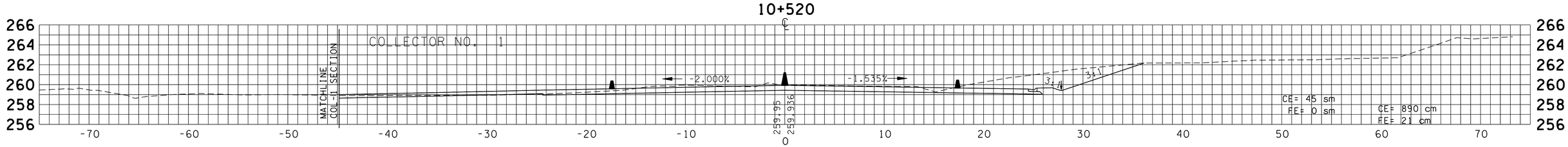
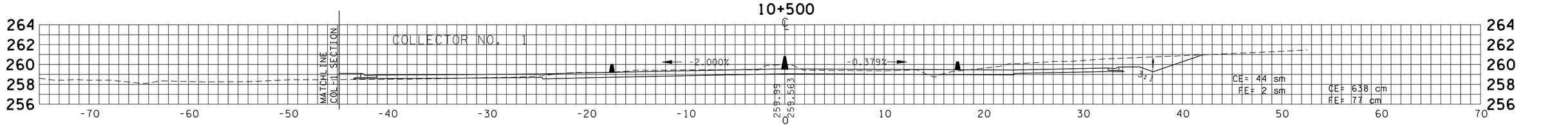


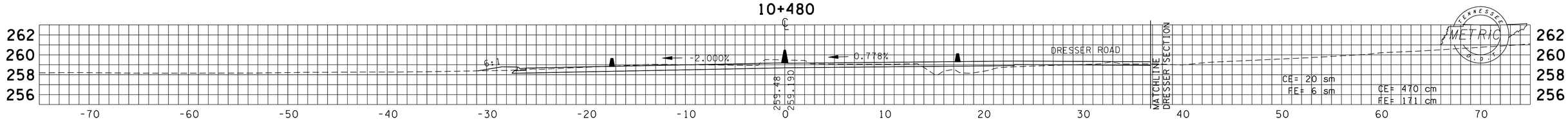
10+520



10+500



10+480

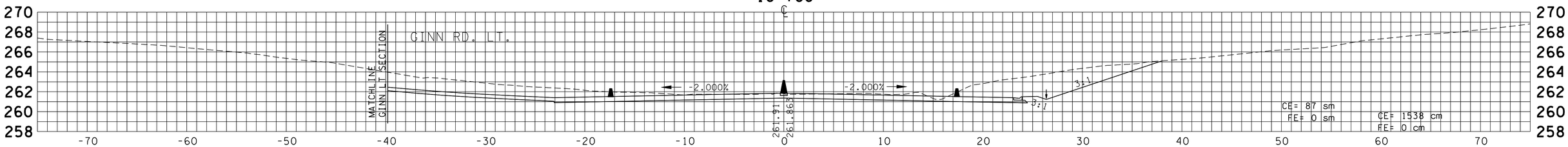


METRIC

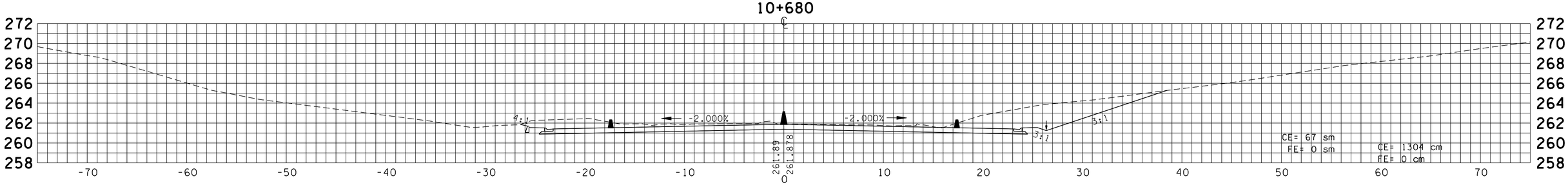
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	125
CONST.	2016	47026-3279-14	185

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

10+700



10+680



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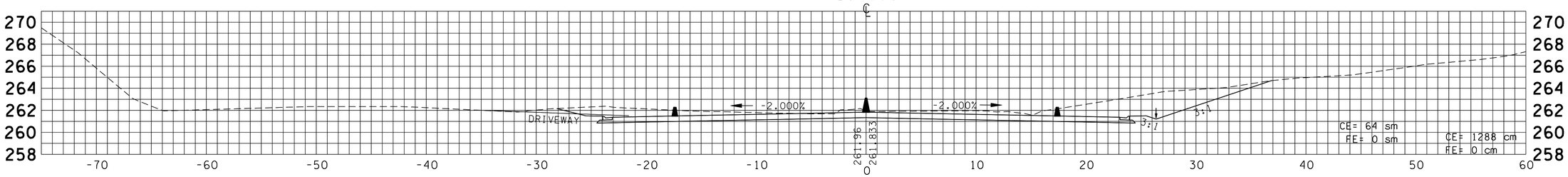
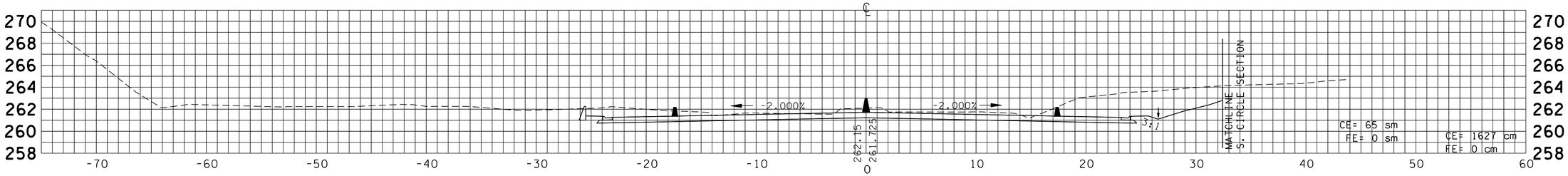
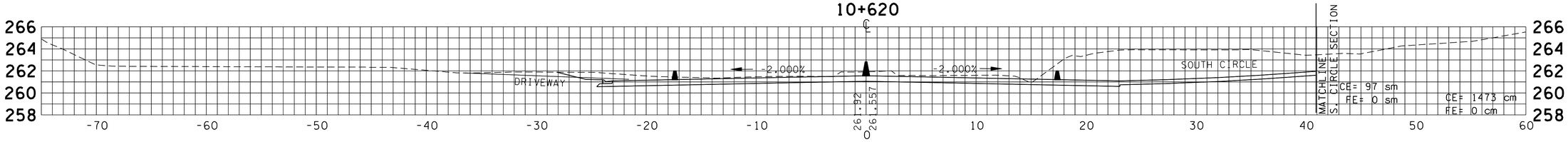


10+640



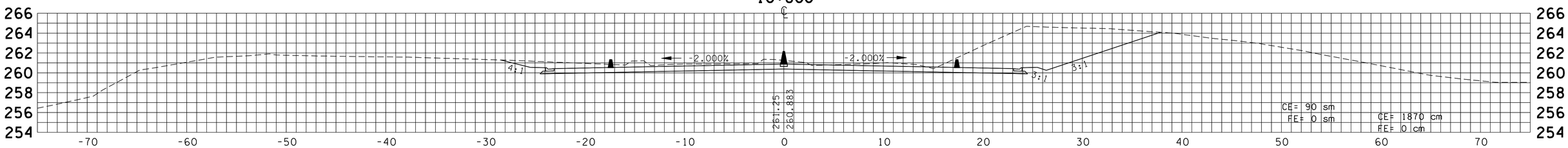
10+620



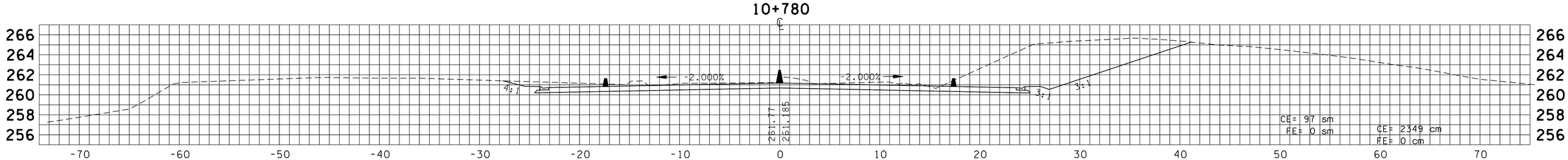
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	126
CONST.	2016	47026-3279-14	186

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

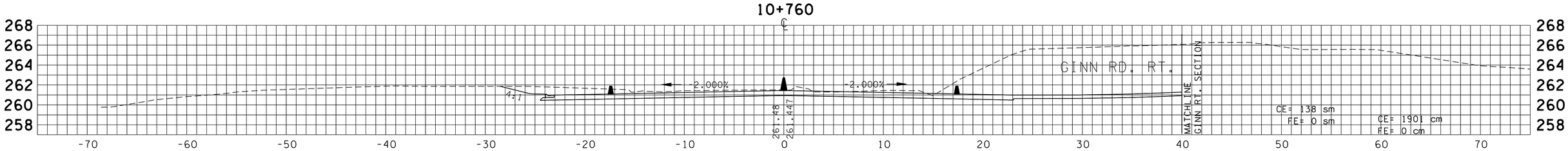
10+800



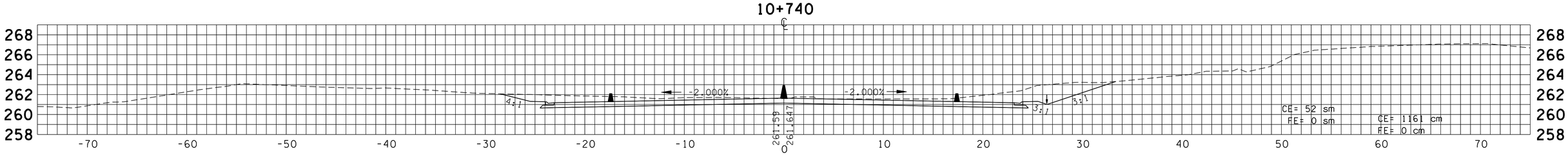
10+780



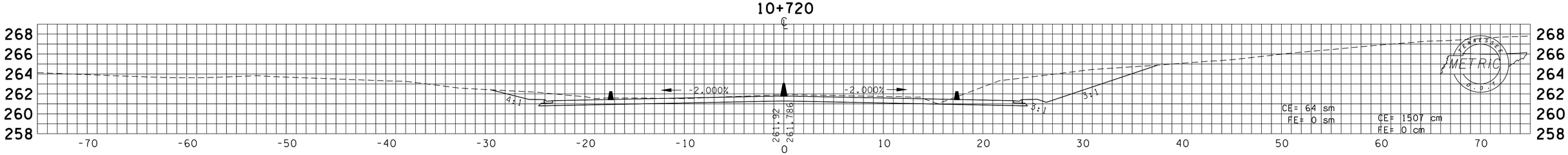
10+760



10+740



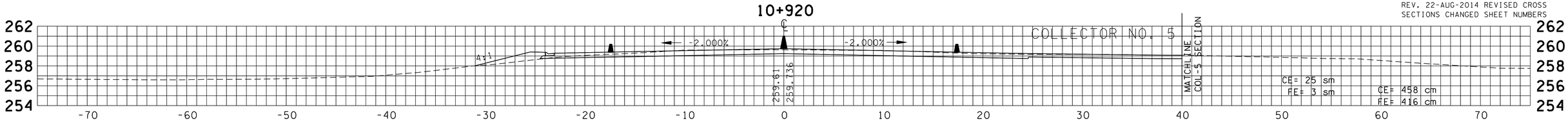
10+720



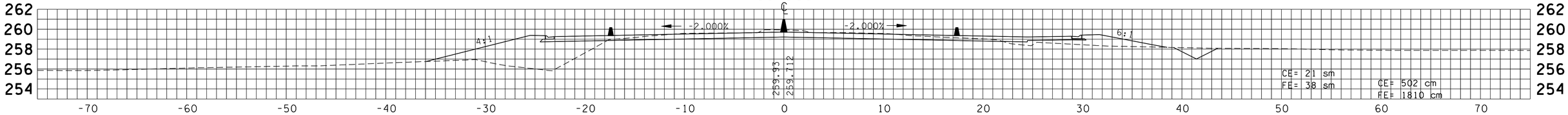
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	127
CONST.	2016	47026-3279-14	187

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

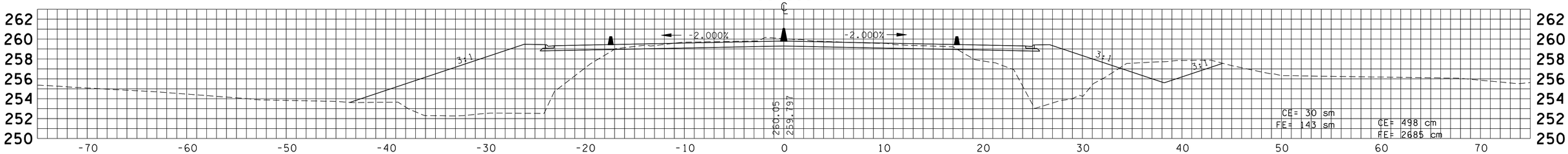
10+920



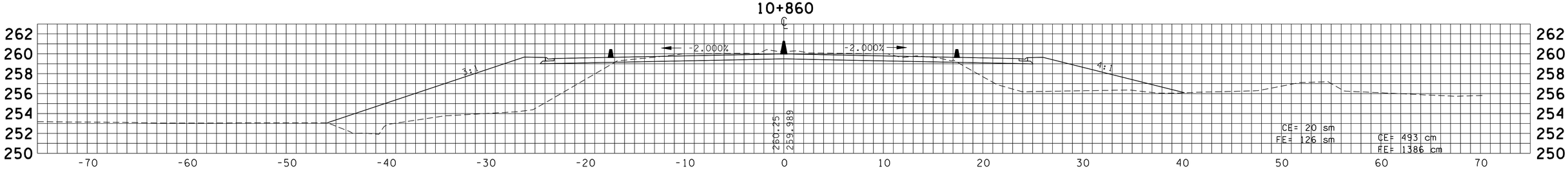
10+900



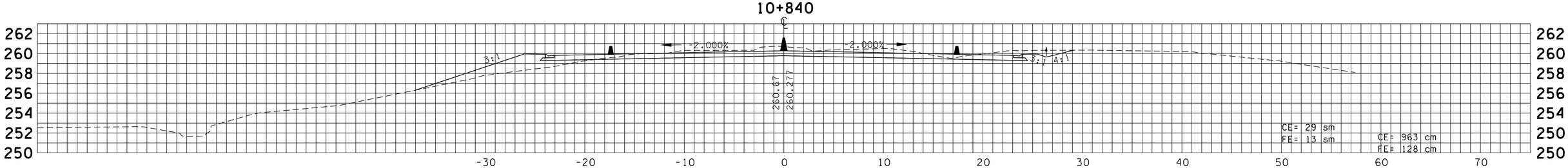
10+880



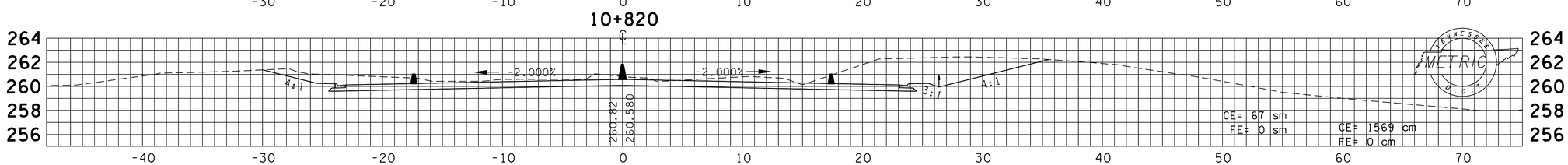
10+860



10+840



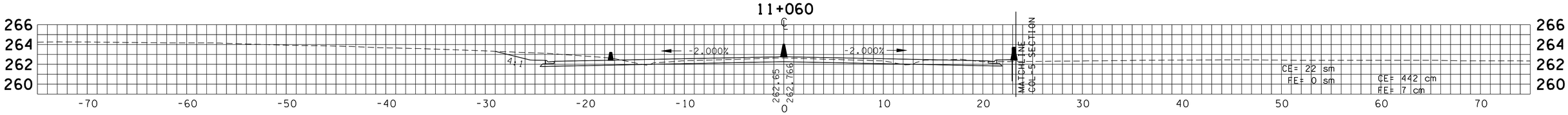
10+820



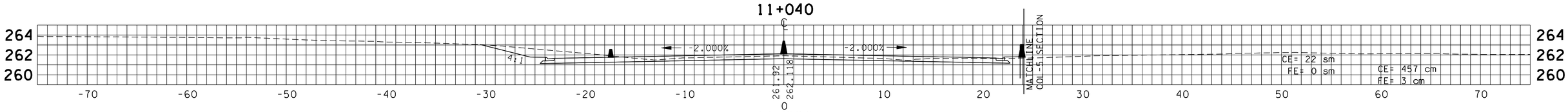
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	128
CONST.	2016	47026-3279-14	188

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

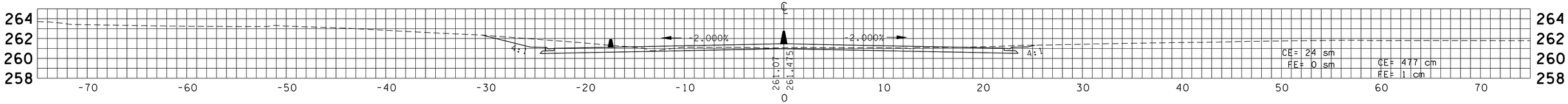
11+060



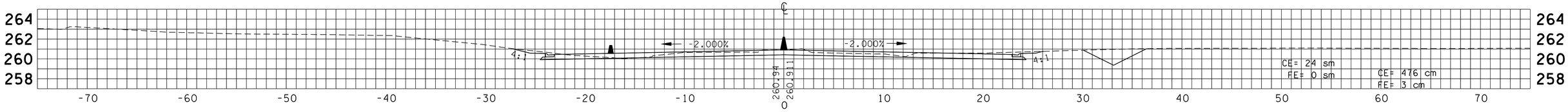
11+040



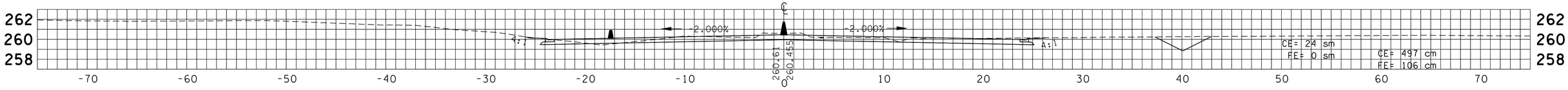
11+020



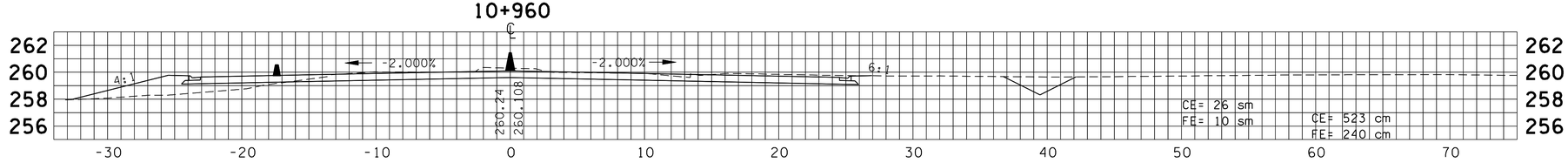
11+000



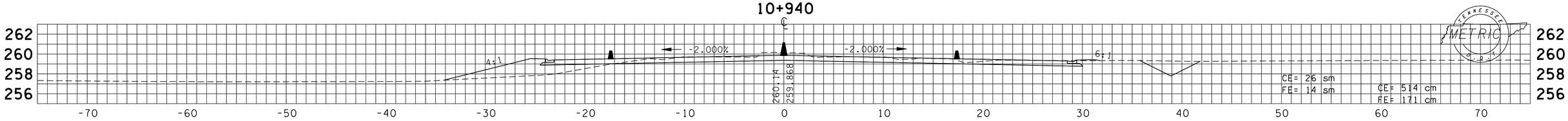
10+980



10+960



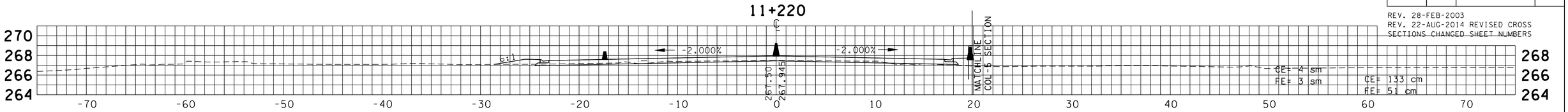
10+940



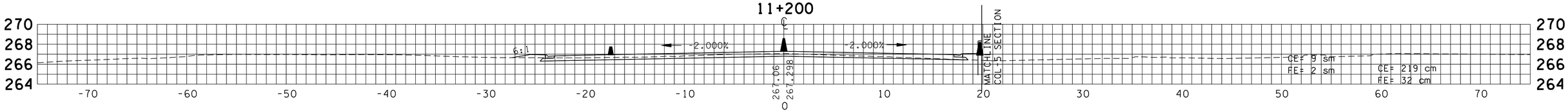
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	129
CONST.	2016	47026-3279-14	189

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

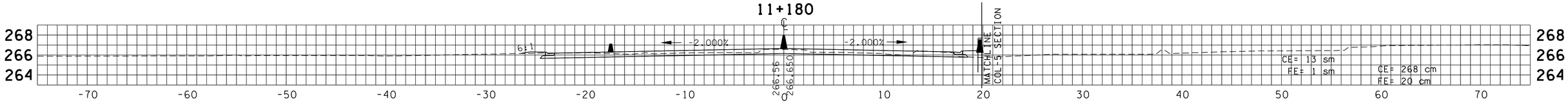
11+220



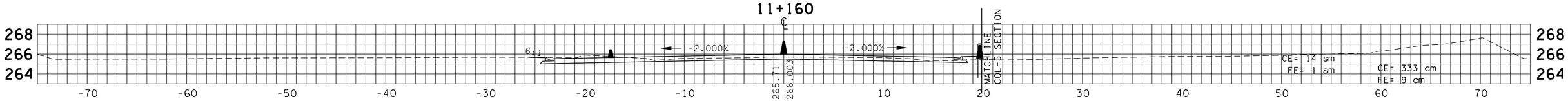
11+200



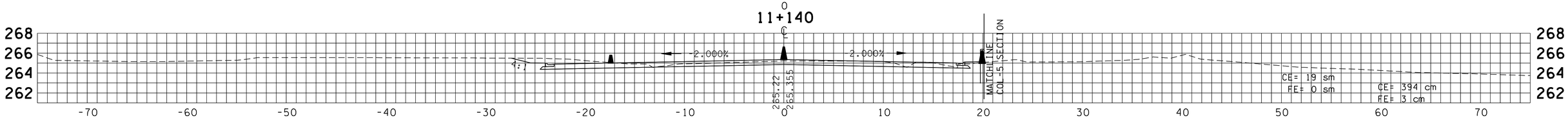
11+180



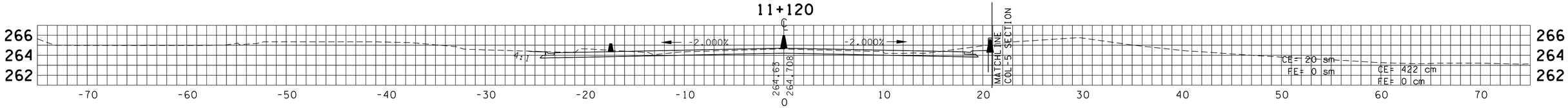
11+160



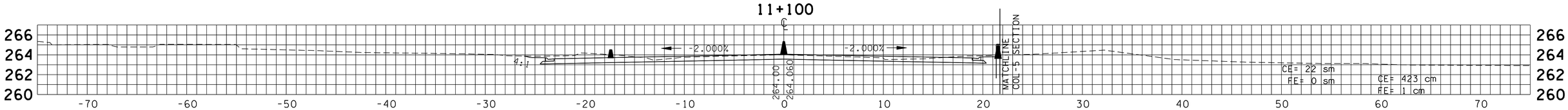
11+140



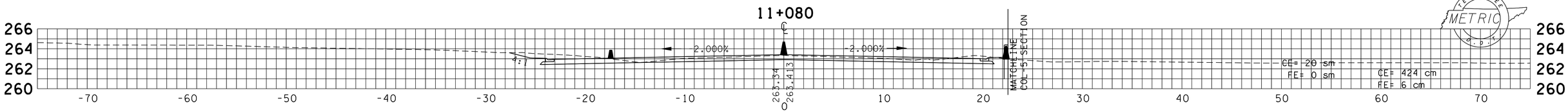
11+120



11+100



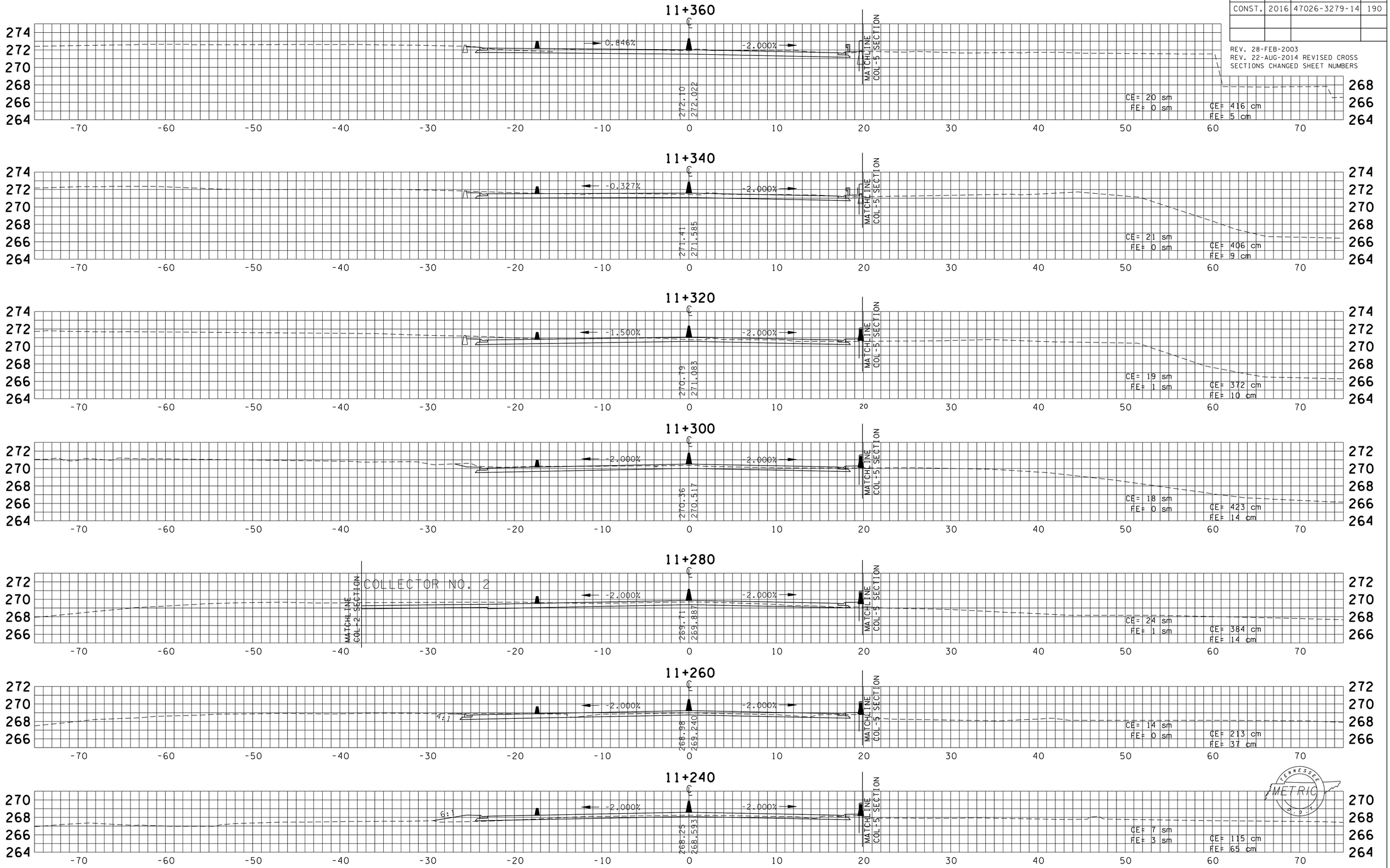
11+080



TENNESSEE METRIC

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	130
CONST.	2016	47026-3279-14	190

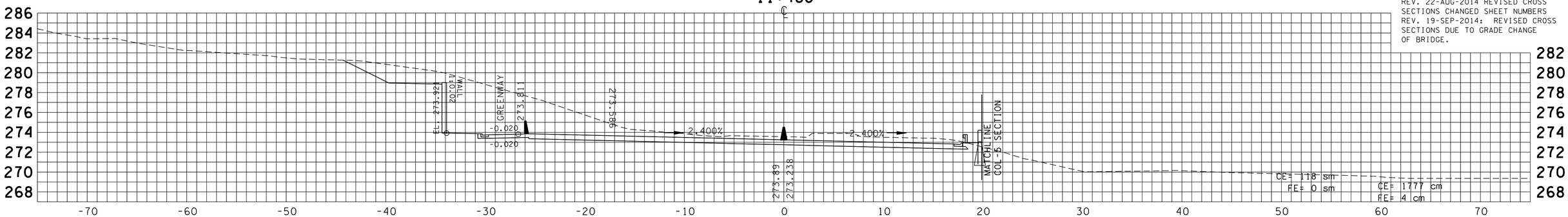
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS



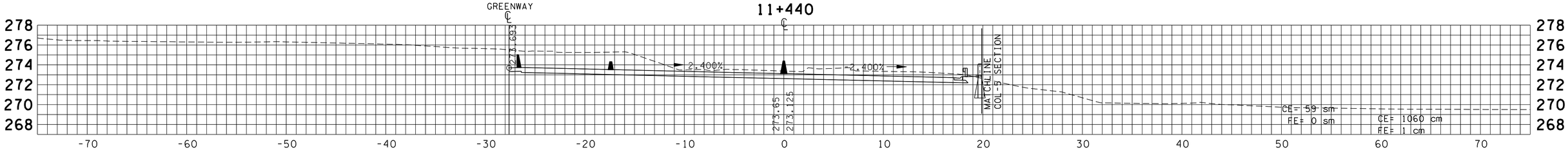
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	131
CONST.	2016	47026-3279-14	191

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

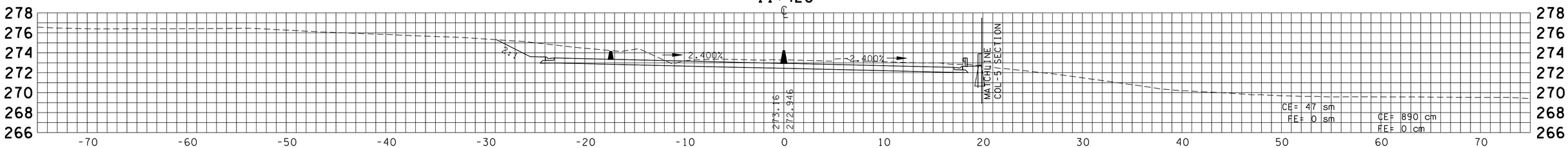
11+460



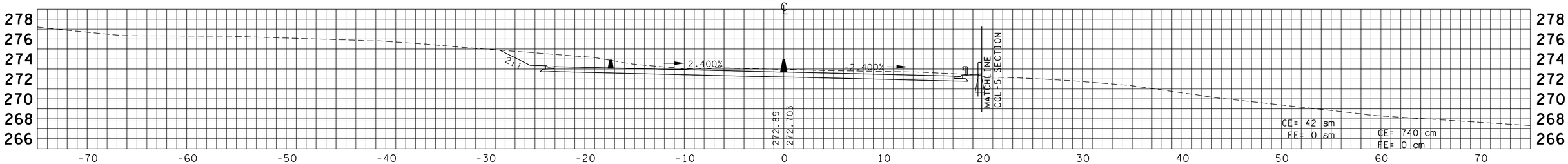
11+440



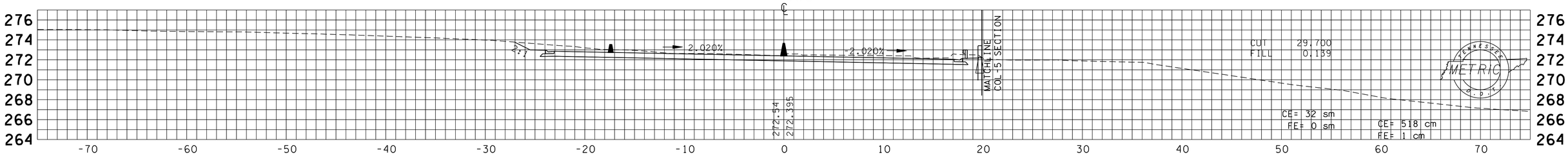
11+420



11+400



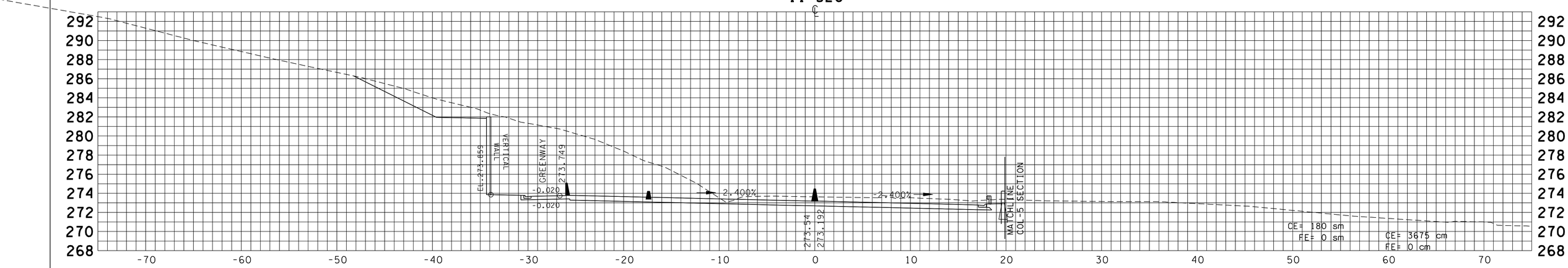
11+380



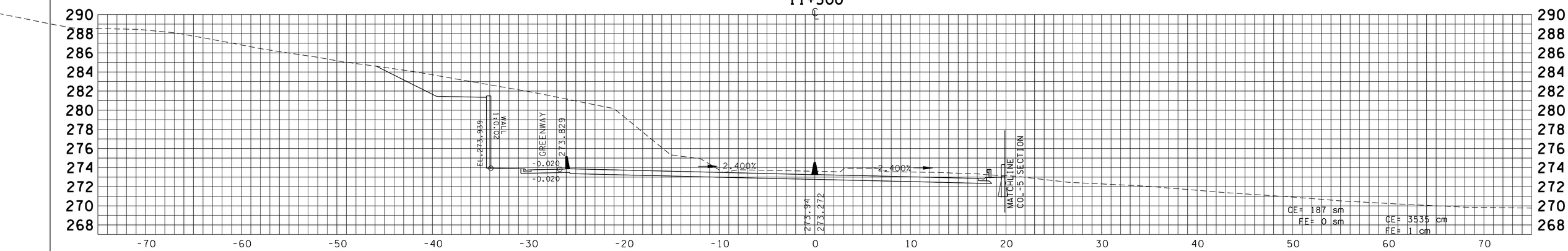
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	132
CONST.	2016	47026-3279-14	192

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

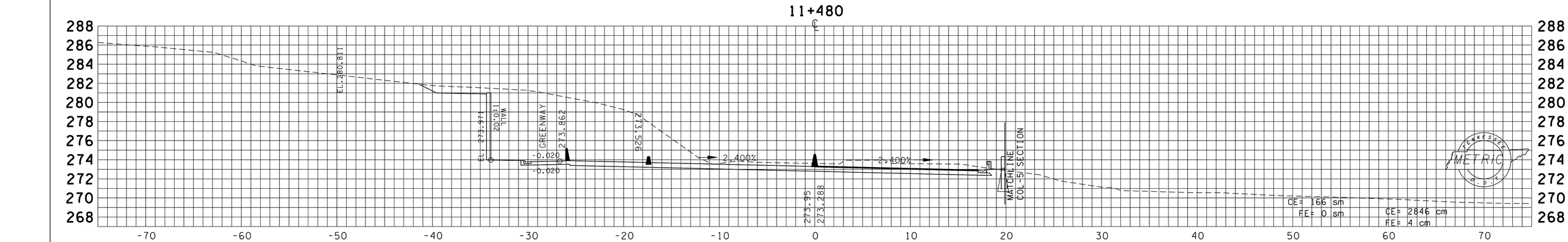
11+520



11+500

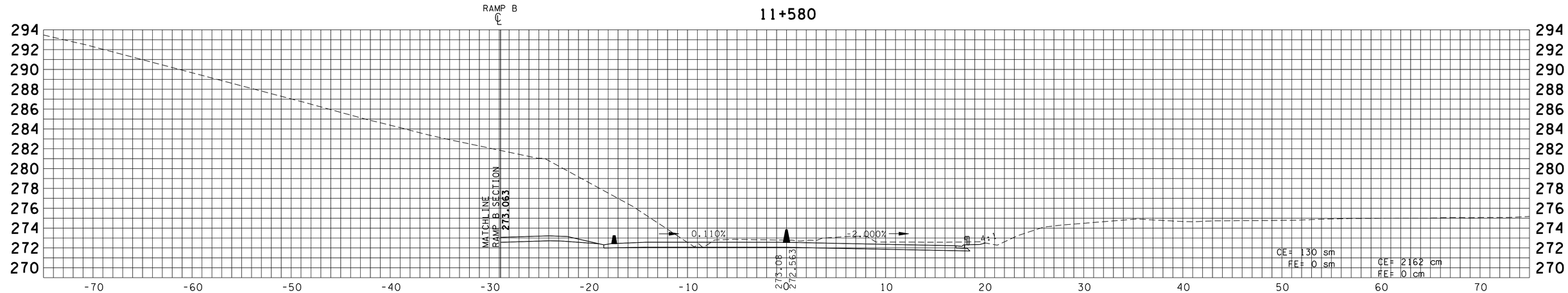


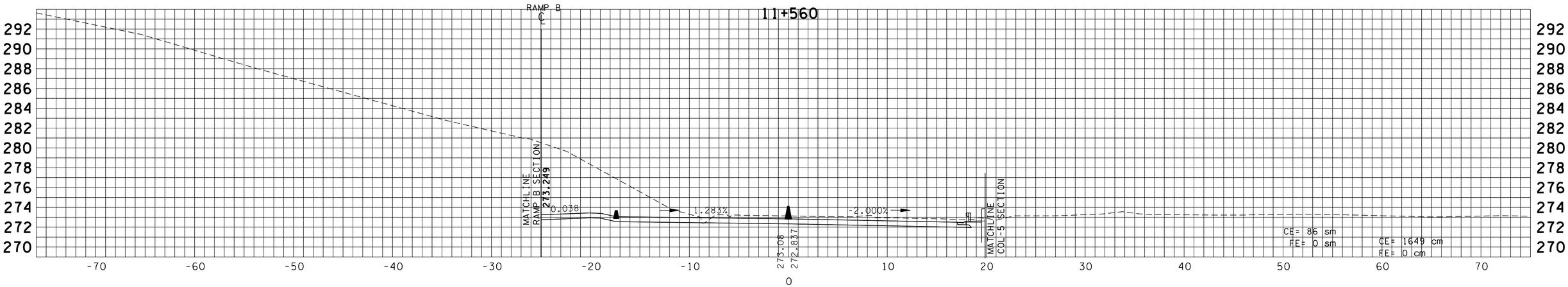
11+480

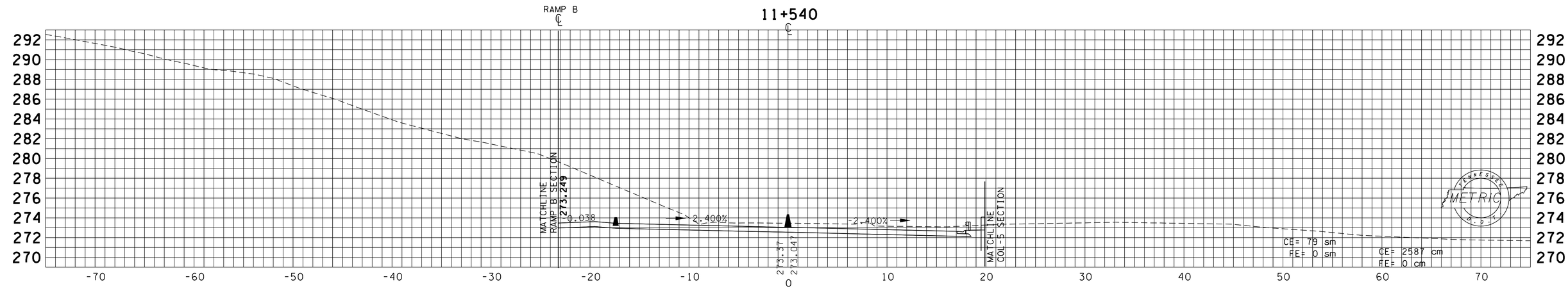


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	133
CONST.	2016	47026-3279-14	193

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

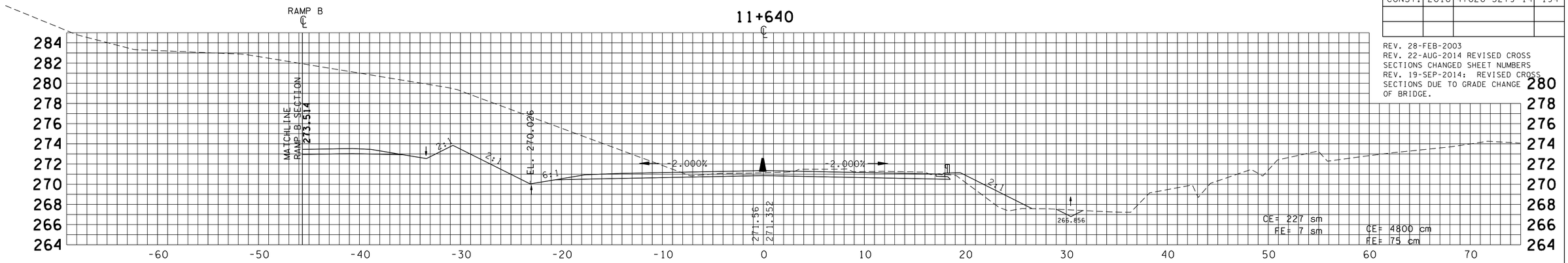


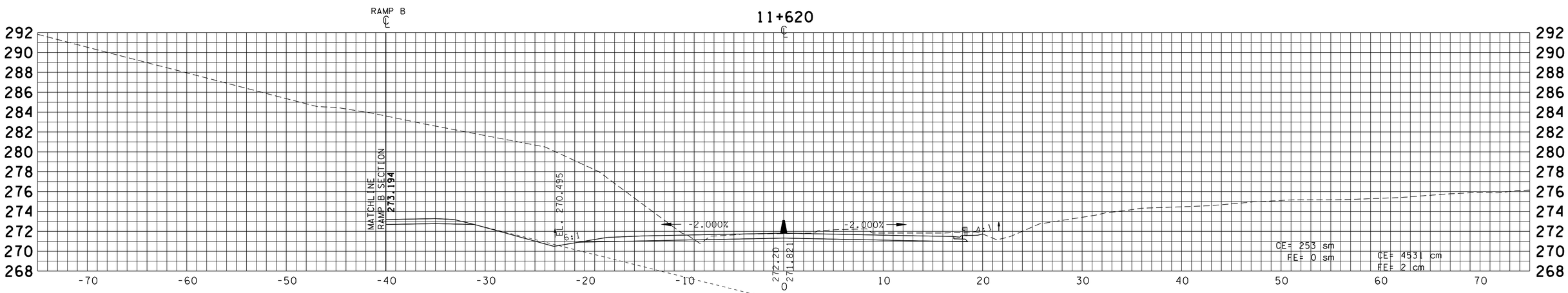




TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	134
CONST.	2016	47026-3279-14	194

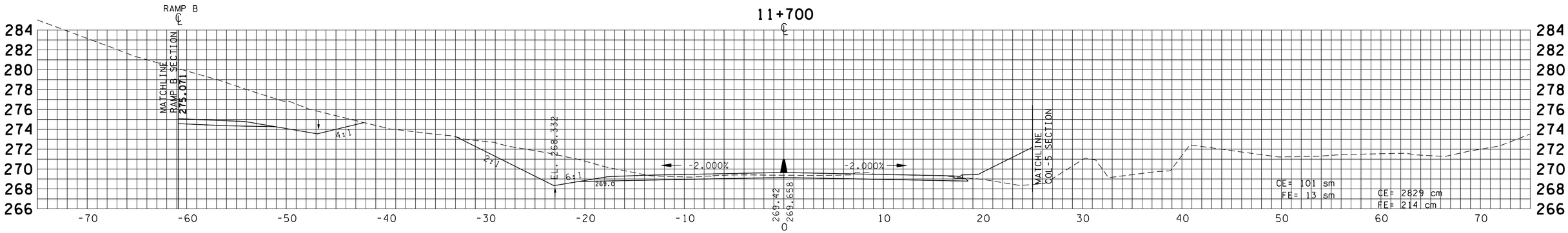
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

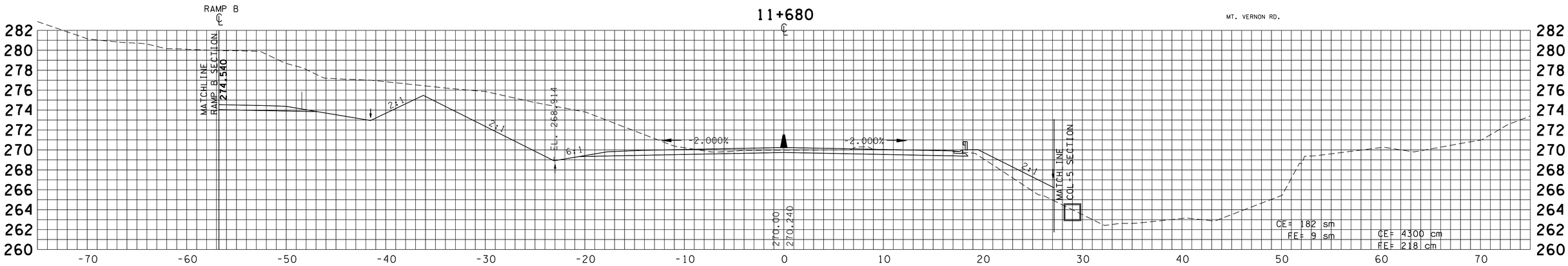


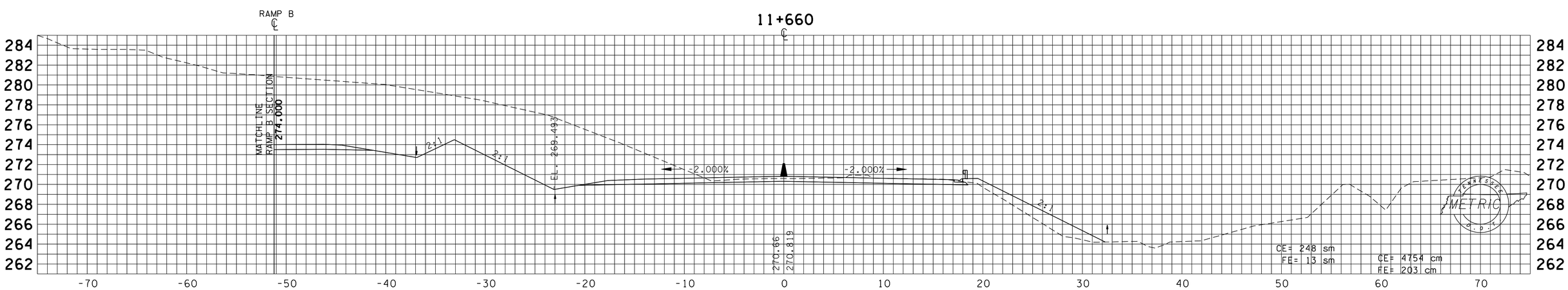


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	135
CONST.	2016	47026-3279-14	195

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

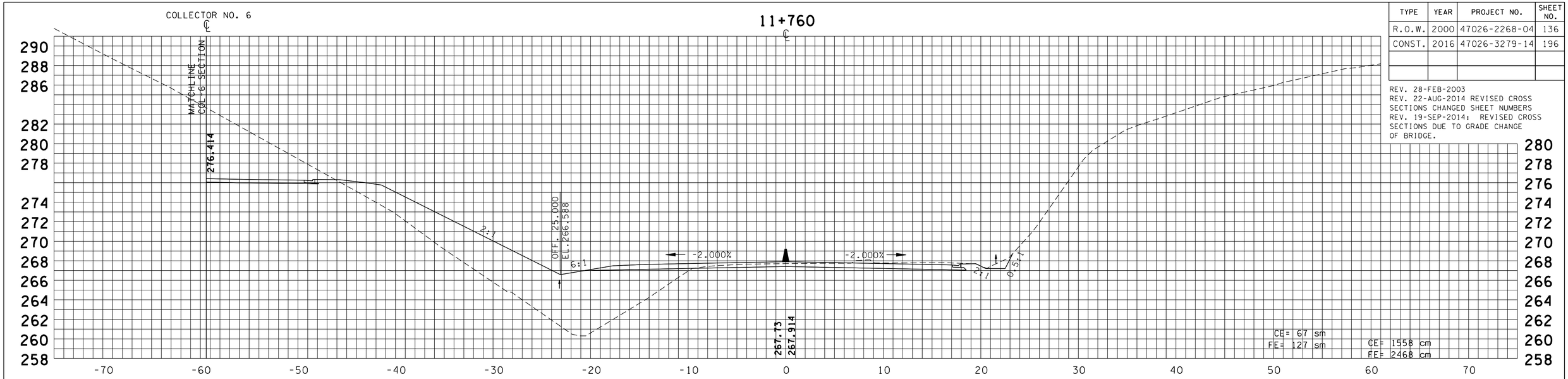


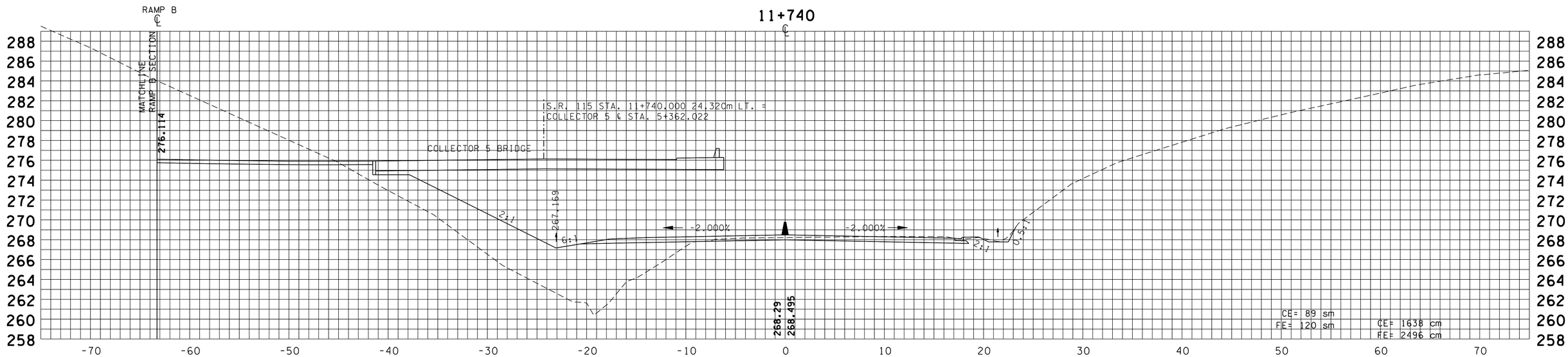


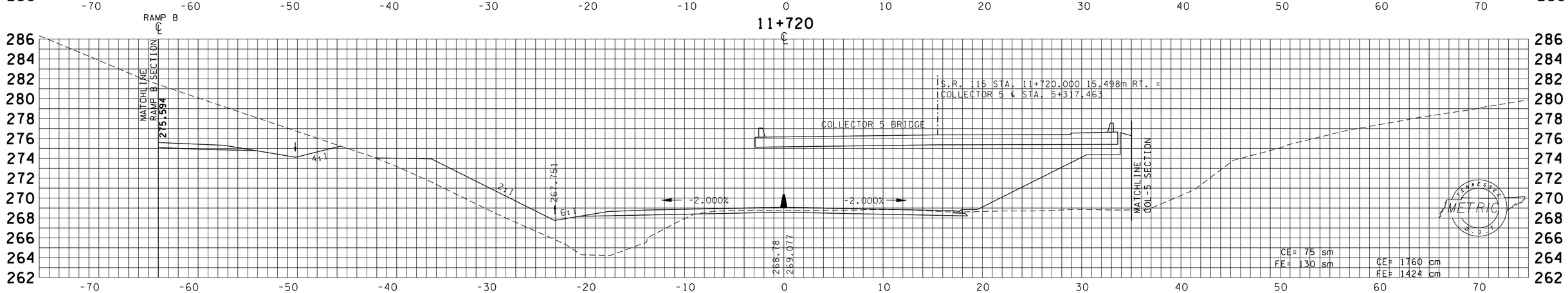


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	136
CONST.	2016	47026-3279-14	196

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

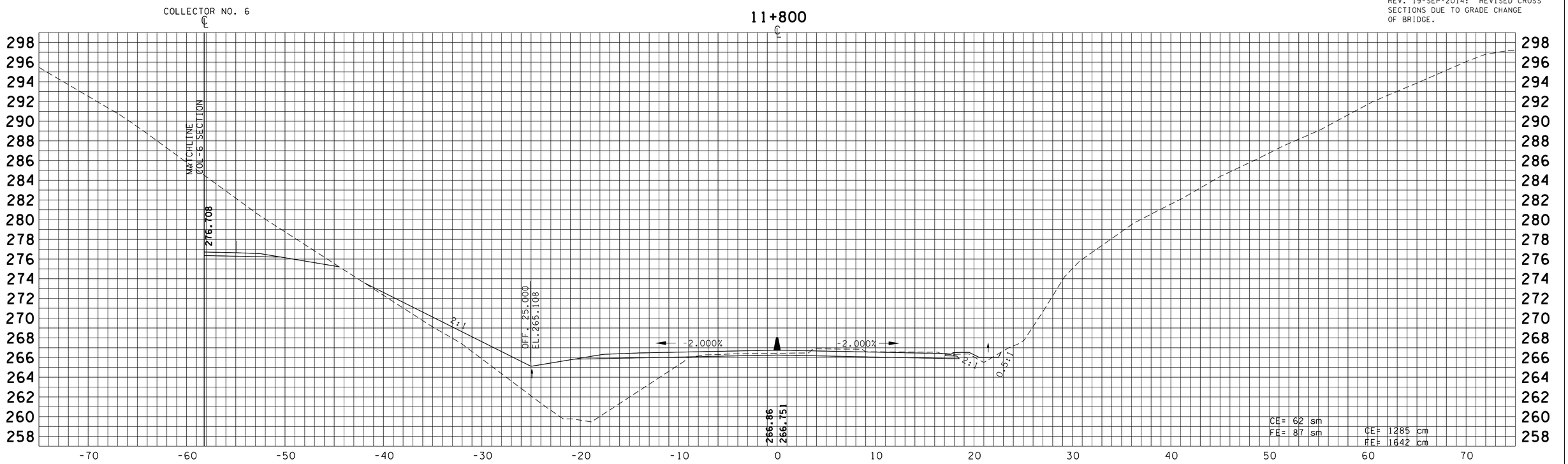


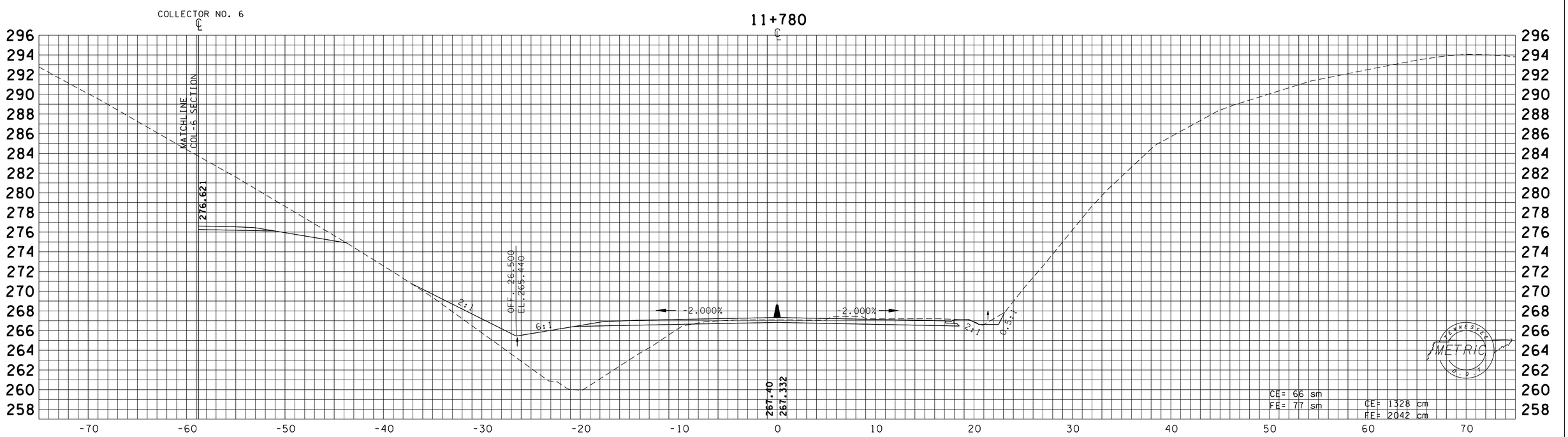




TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	137
CONST.	2016	47026-3279-14	197

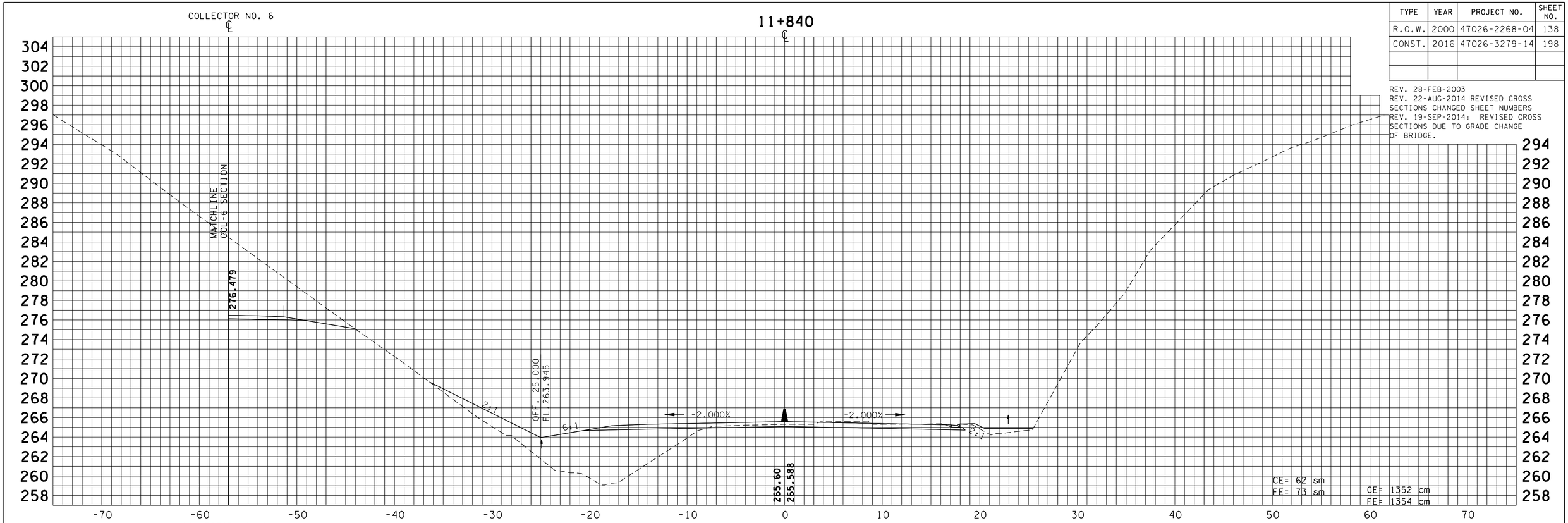
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

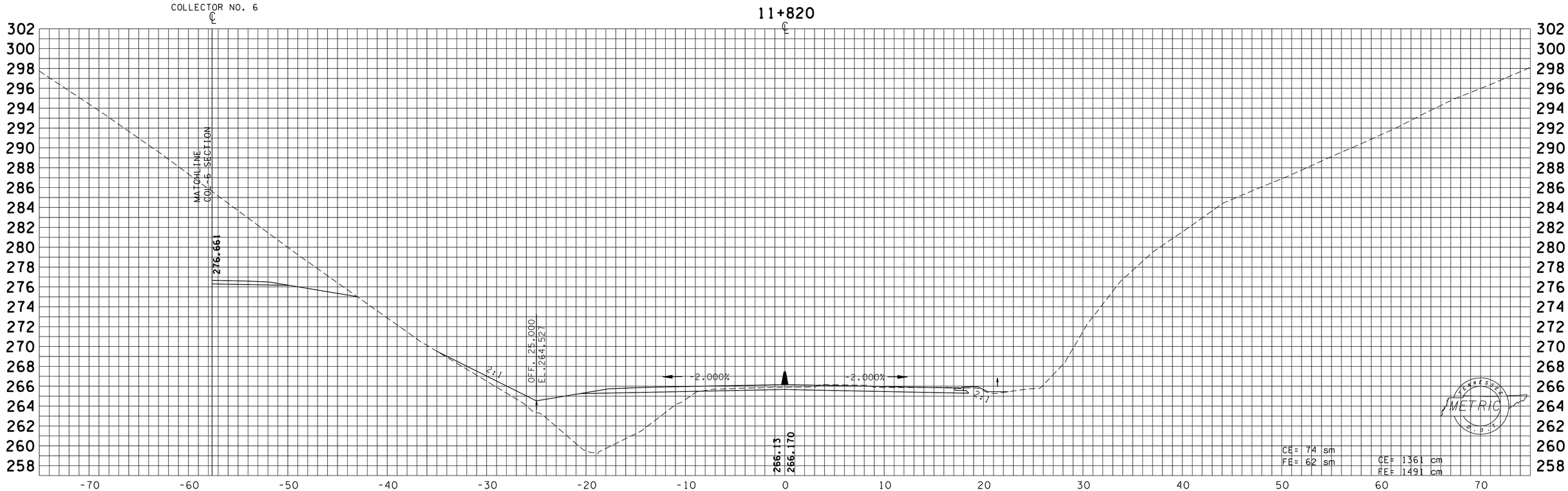




TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	138
CONST.	2016	47026-3279-14	198

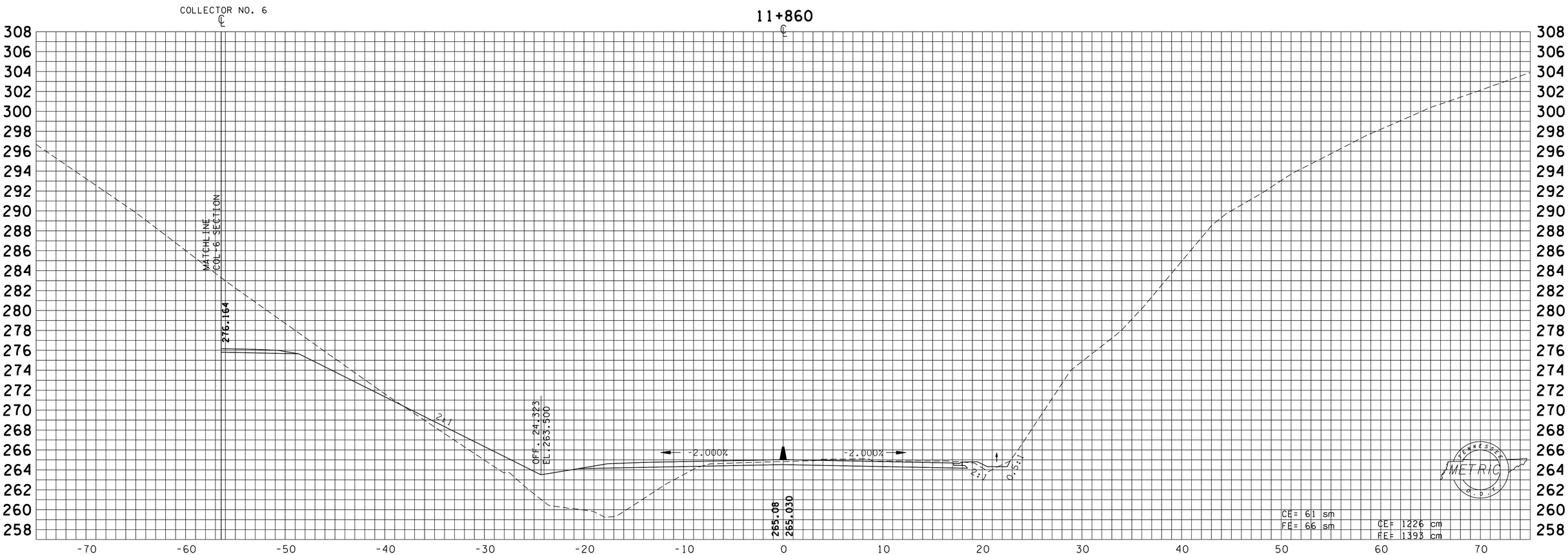
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.





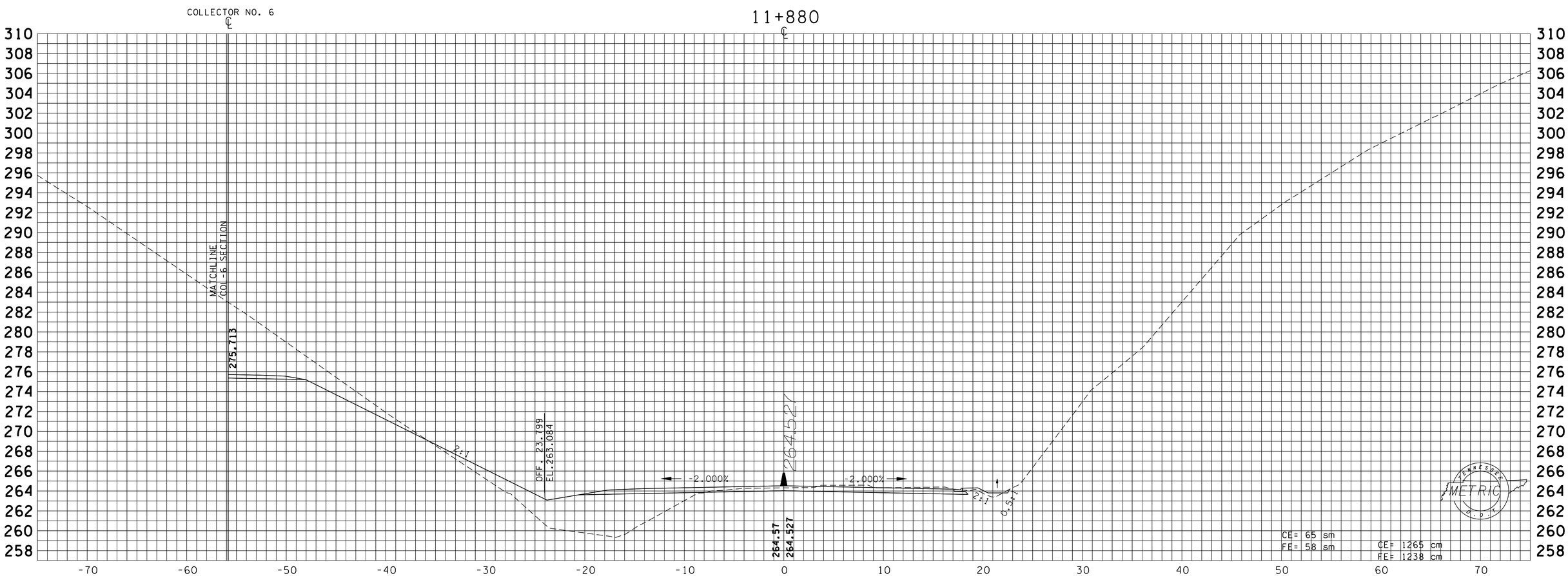
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	139
CONST.	2016	47026-3279-14	199

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.



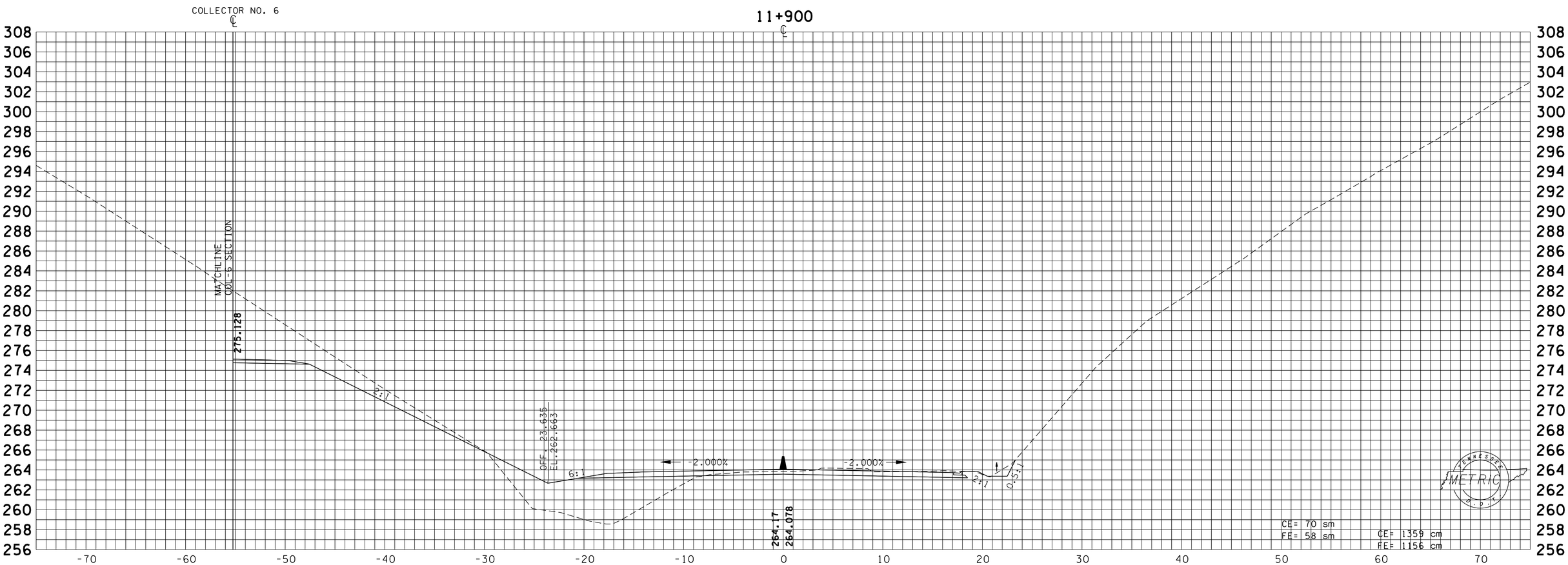
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	140
CONST.	2016	47026-3279-14	200

REV. 05-15-2015: REVISED SLOPE ON RIGHT SIDE OF COLLECTOR #3.
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.



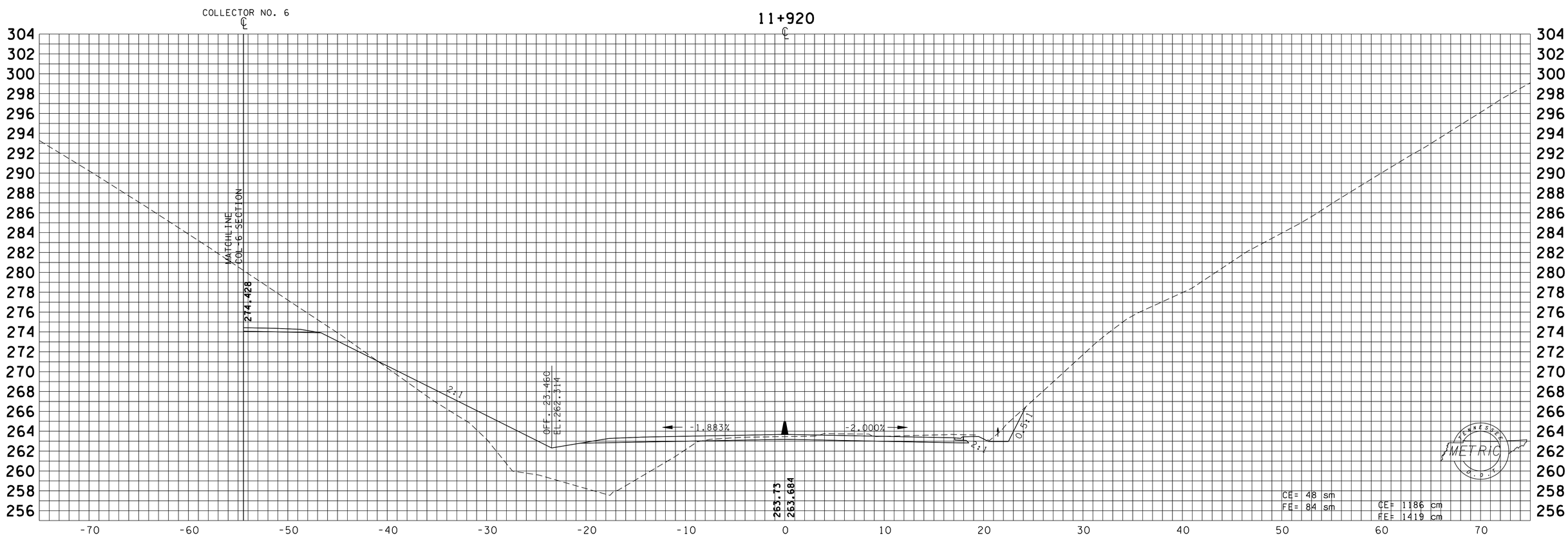
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	141
CONST.	2016	47026-3279-14	201

REV. 05-15-2015: REVISED SLOPE ON RIGHT SIDE OF COLLECTOR #3.
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS



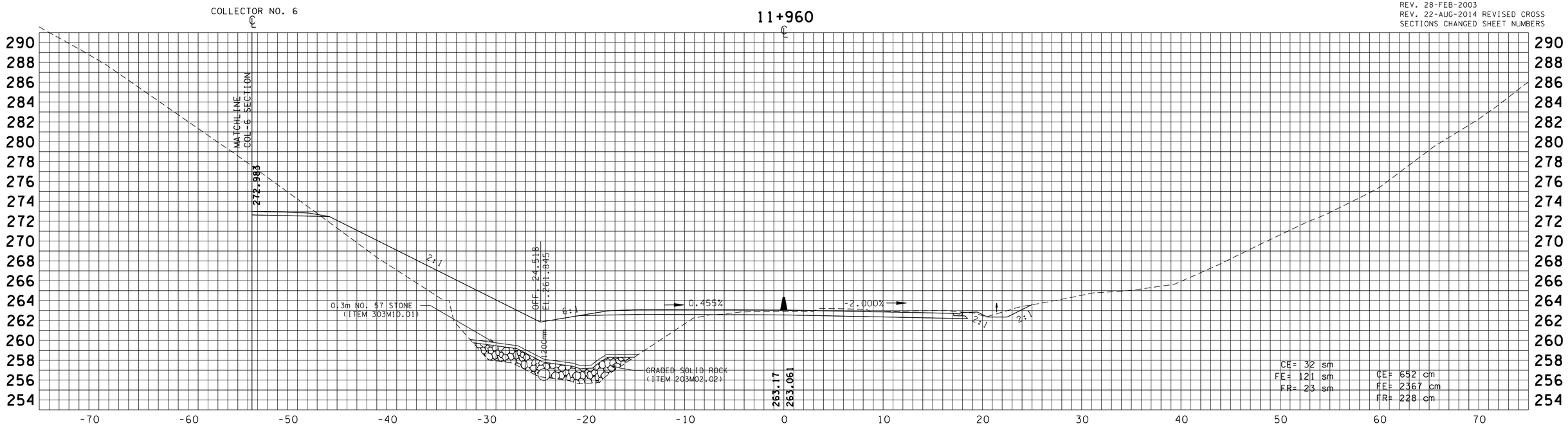
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	142
CONST.	2016	47026-3279-14	202

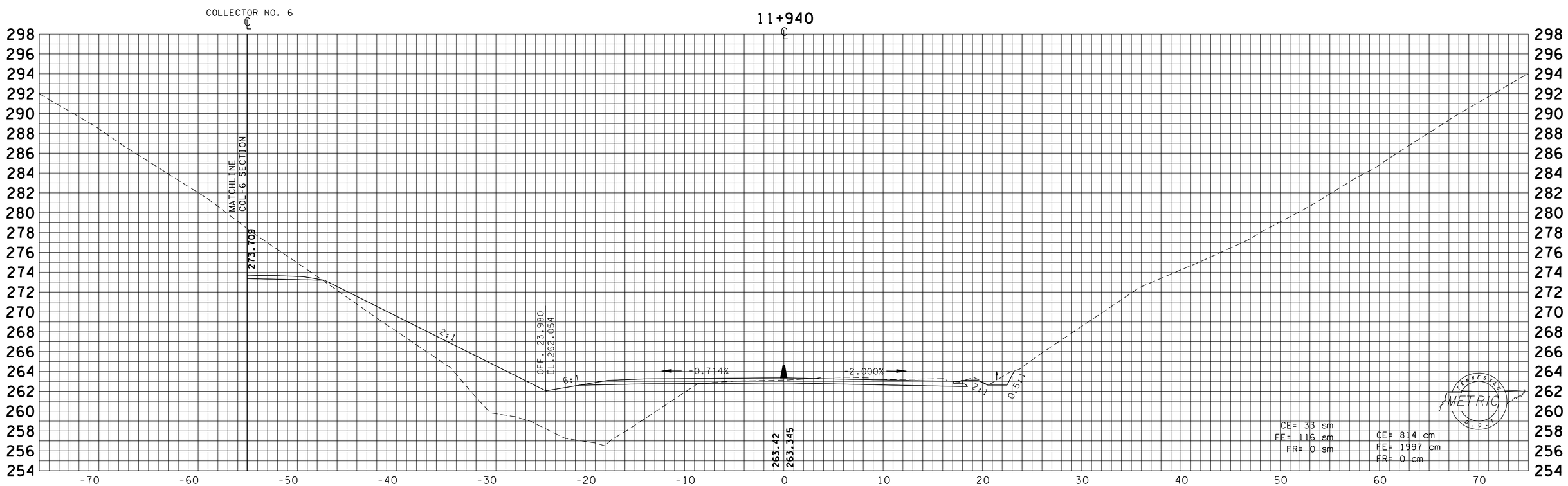
REV. 05-15-2015: REVISED SLOPE ON RIGHT SIDE OF COLLECTOR #3.
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	143
CONST.	2016	47026-3279-14	203

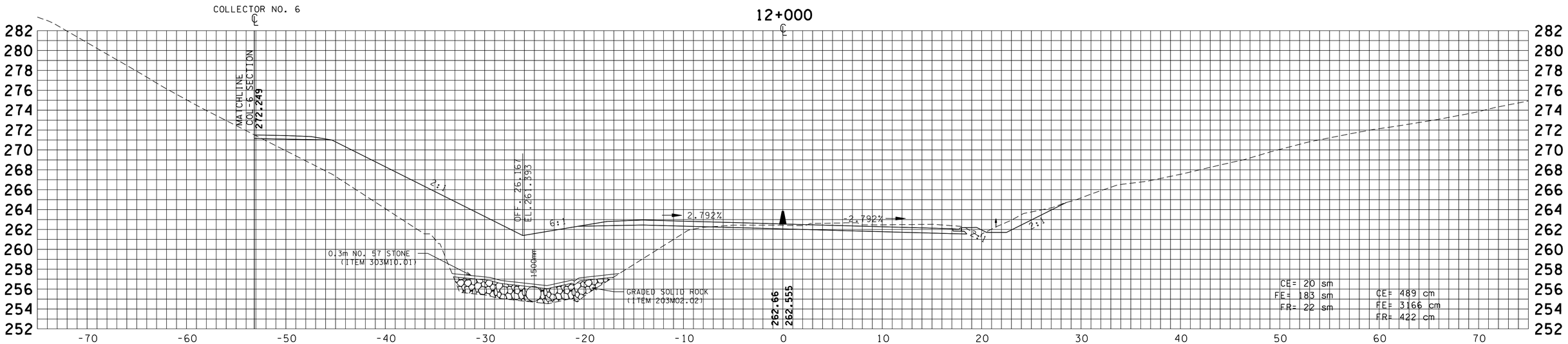
REV. 05-15-2015: REVISED SLOPE ON RIGHT SIDE OF COLLECTOR #3.
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

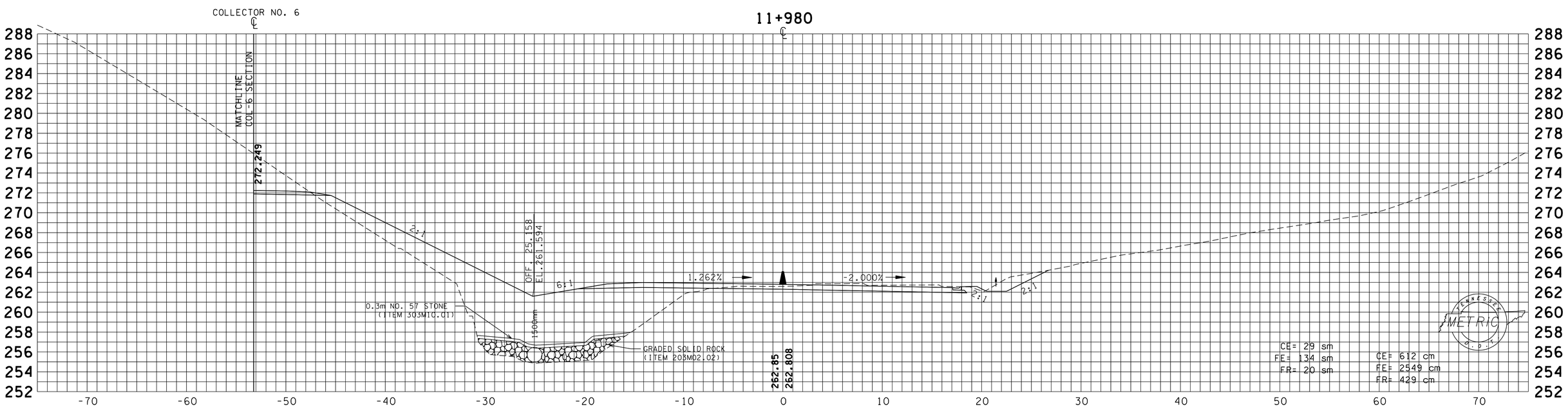




TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	144
CONST.	2016	47026-3279-14	204

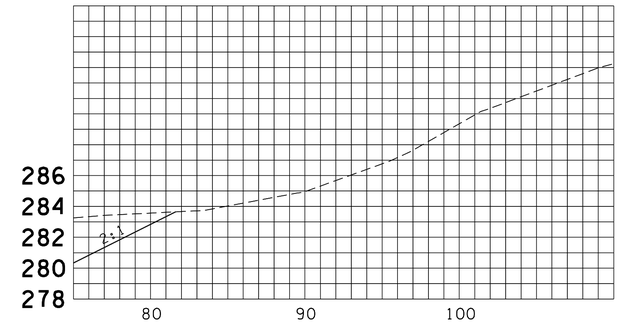
REV. 05-15-2015: REVISED SLOPE ON RIGHT SIDE OF COLLECTOR #3.
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

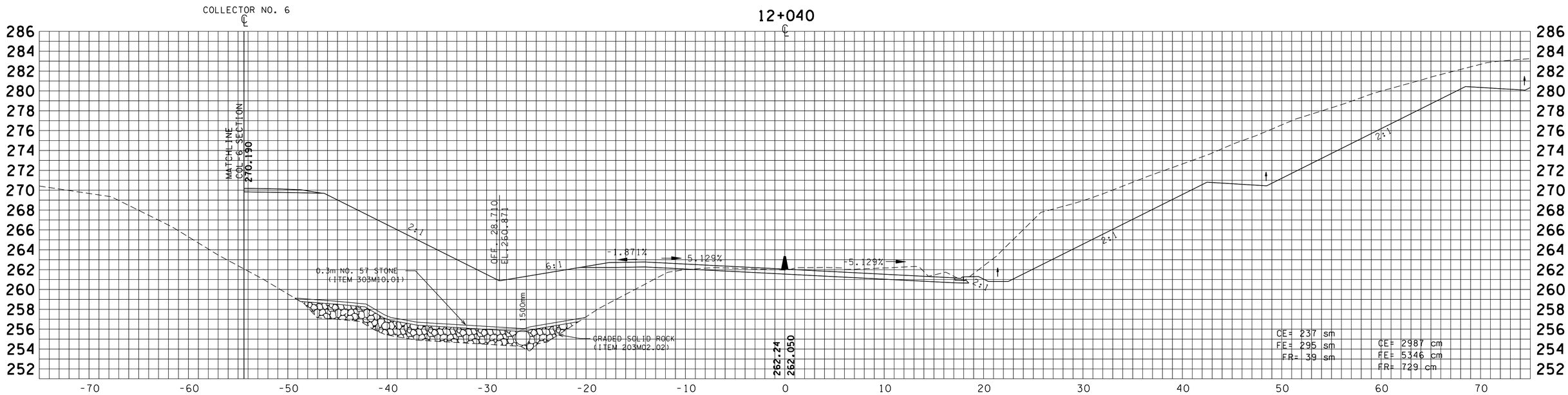


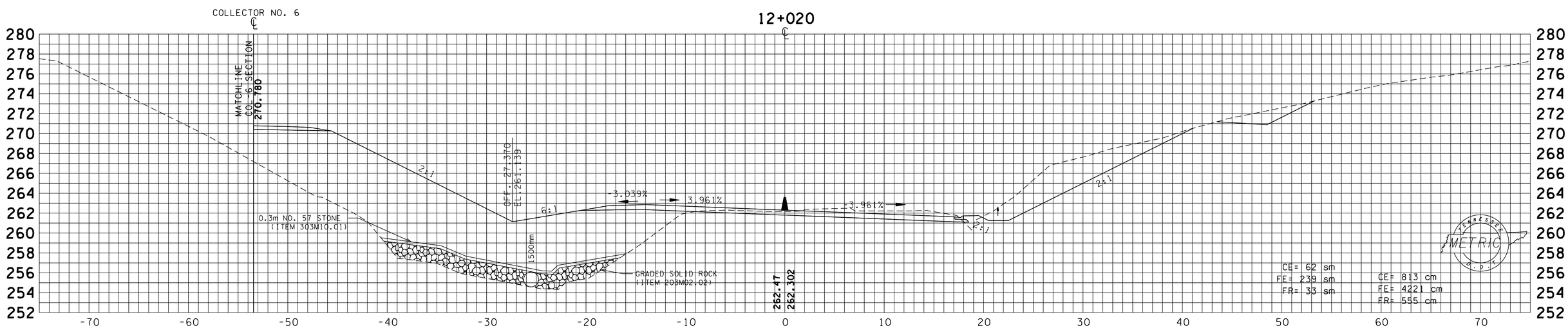


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	145
CONST.	2016	47026-3279-14	205

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

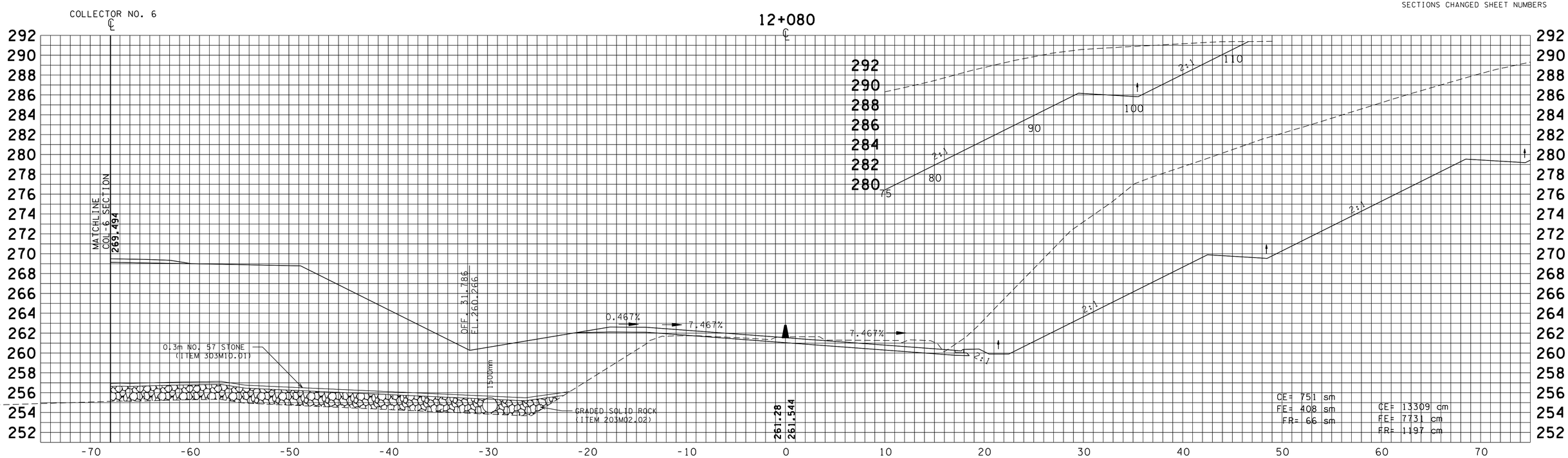


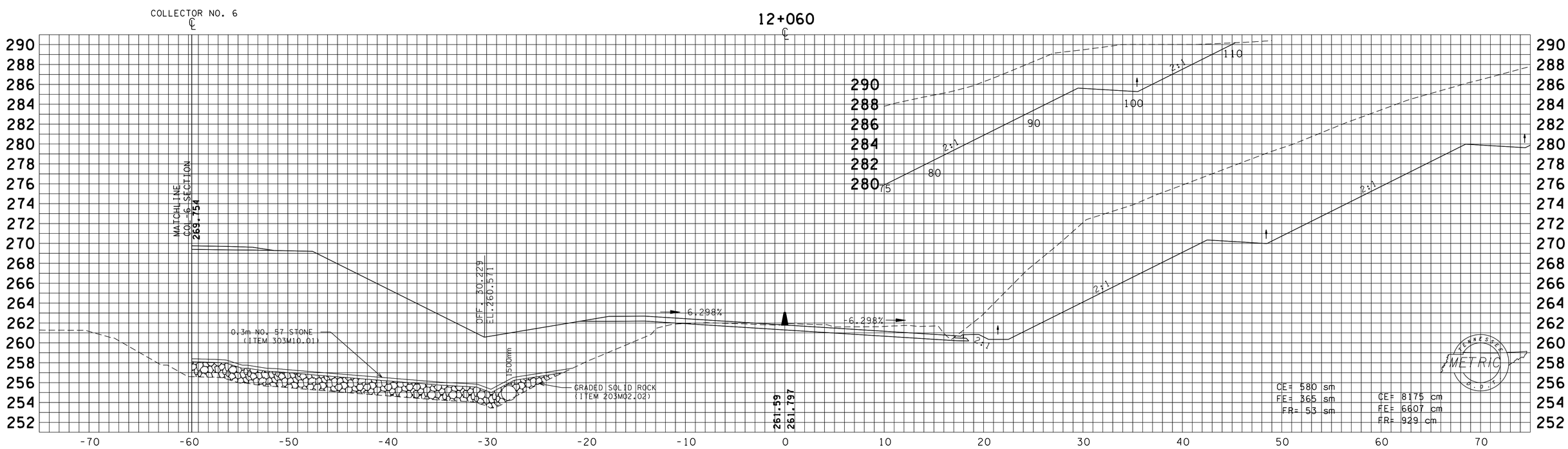




TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	146
CONST.	2016	47026-3279-14	206

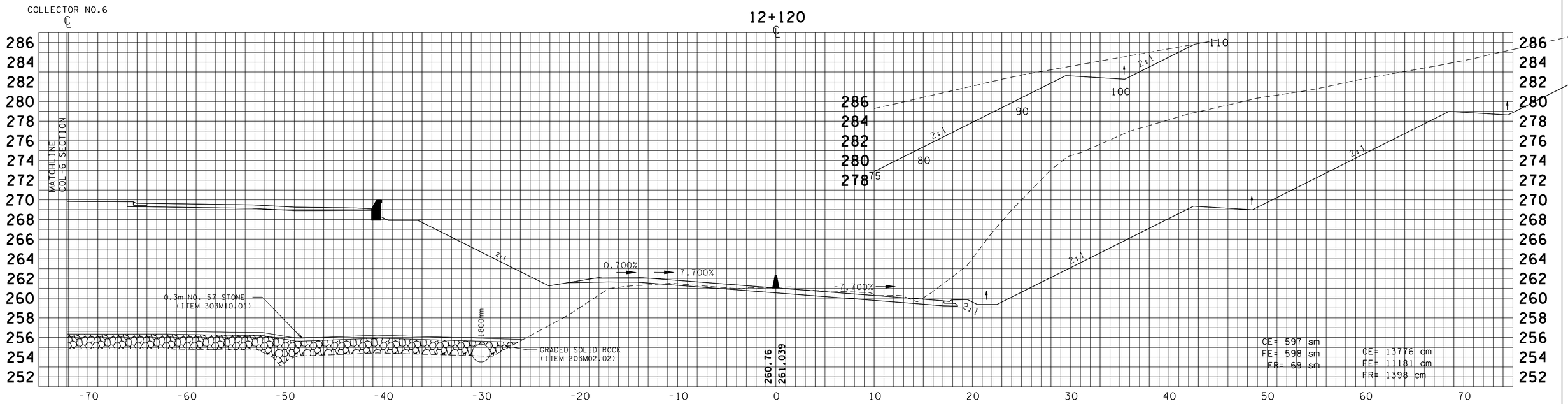
REV. 04-13-2015: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

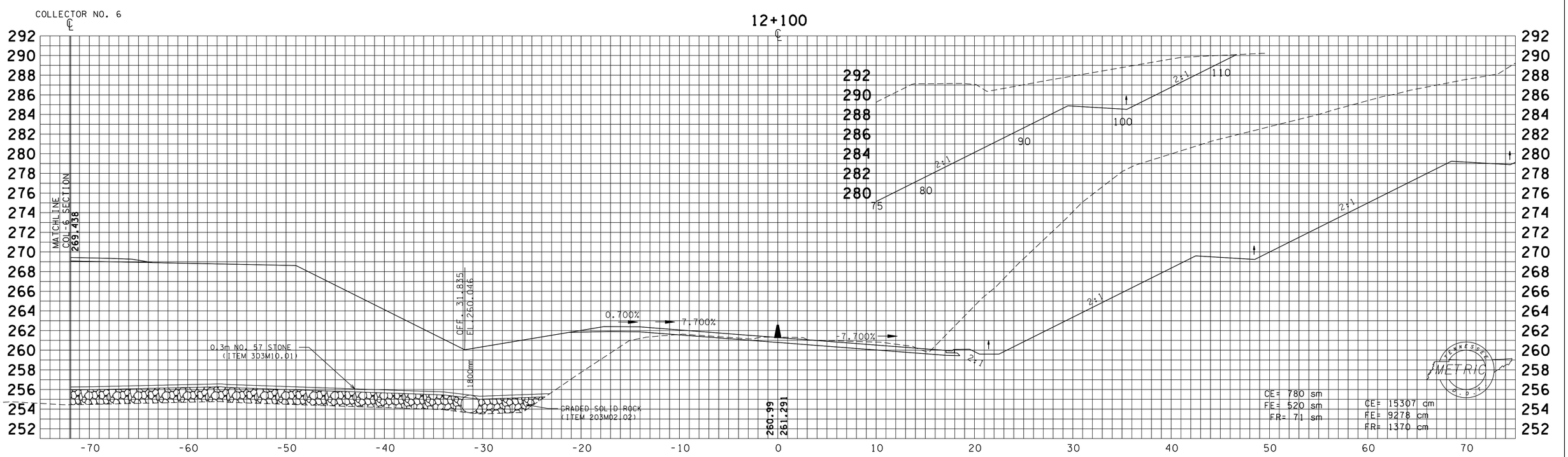




TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	147
CONST.	2016	47026-3279-14	207

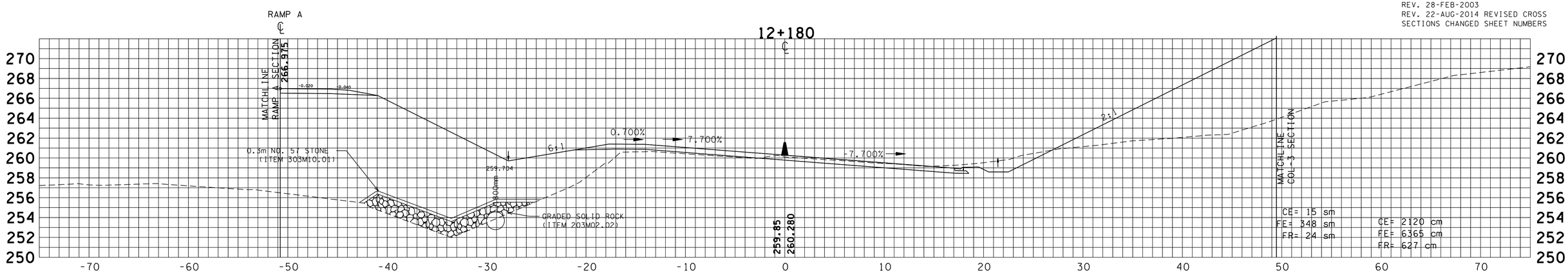
REV. 04-13-2015: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

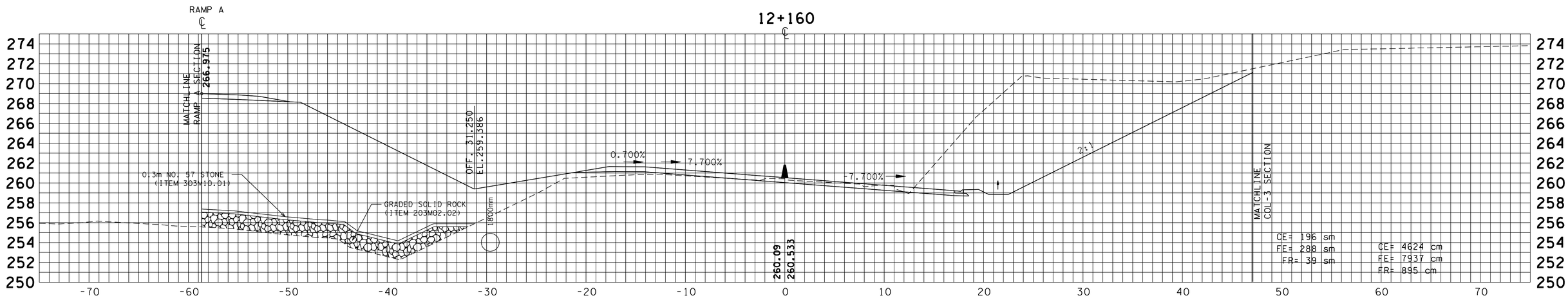


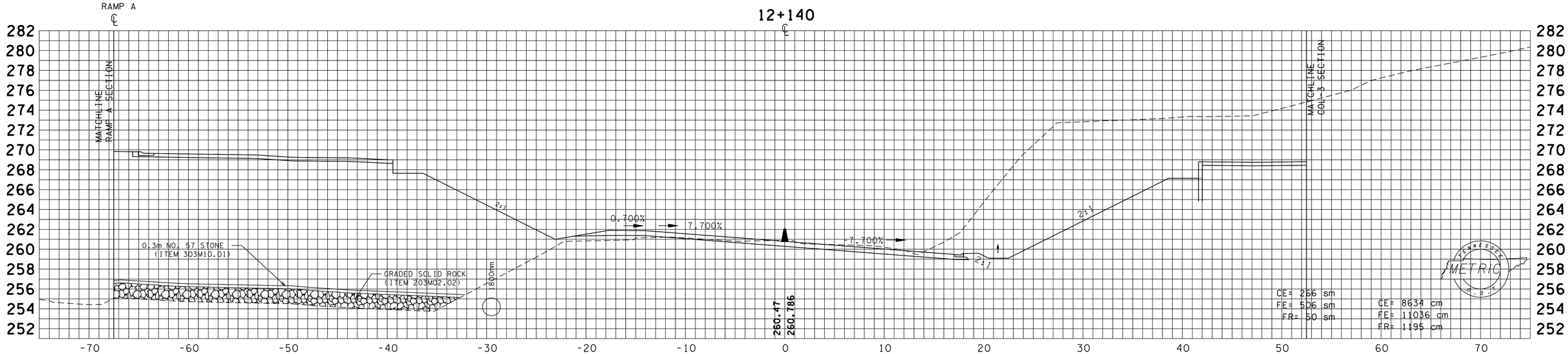


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	148
CONST.	2016	47026-3279-14	208

REV. 04-13-2015: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

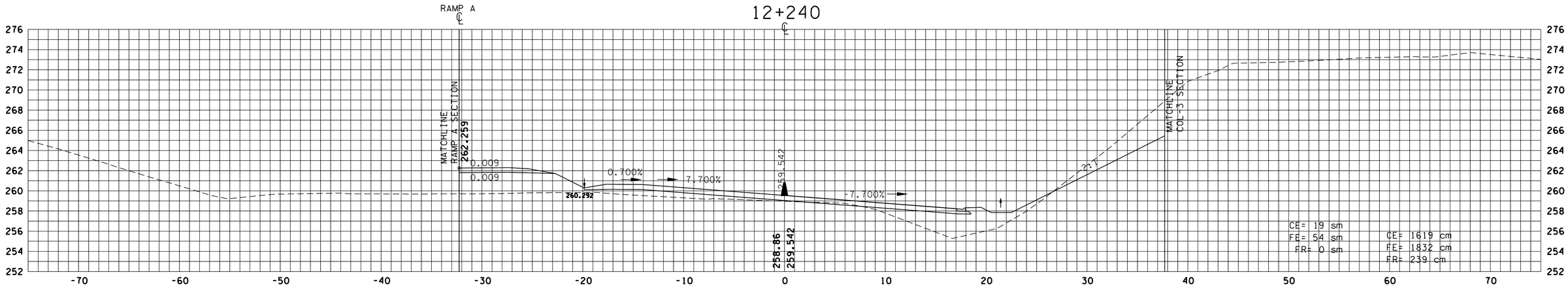


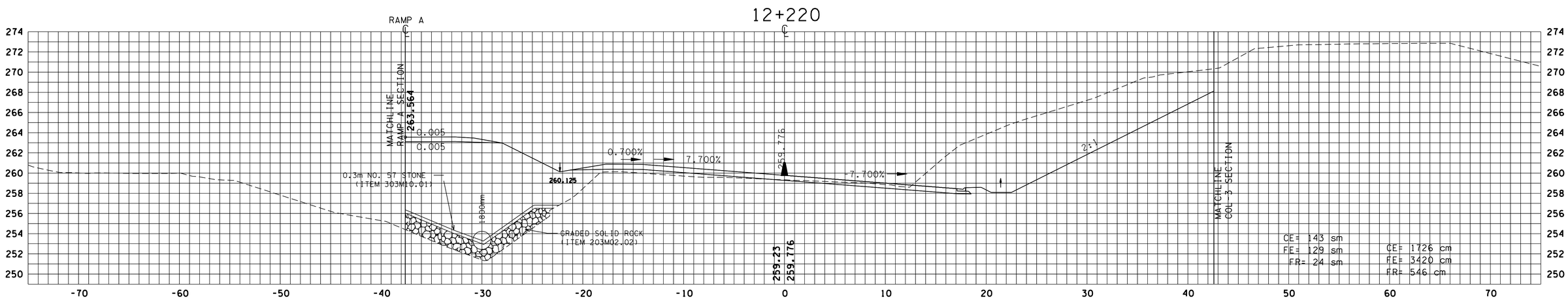


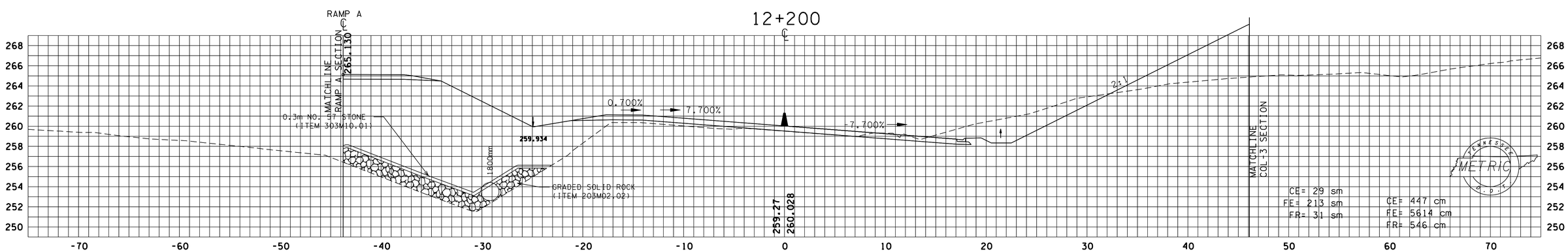


TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	149
CONST.	2016	47026-3279-14	209

REV. 04-13-2015: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

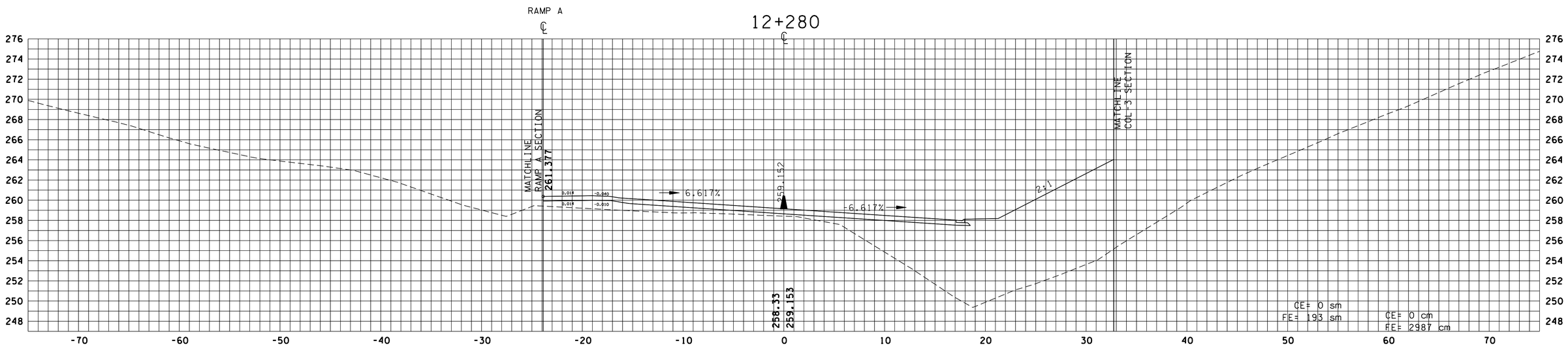


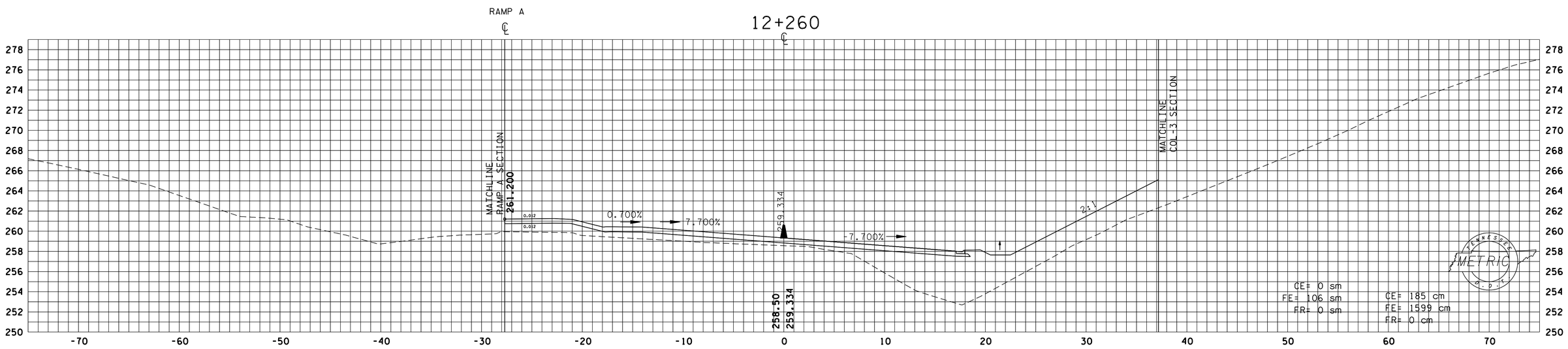




TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	150
CONST.	2016	47026-3279-14	210

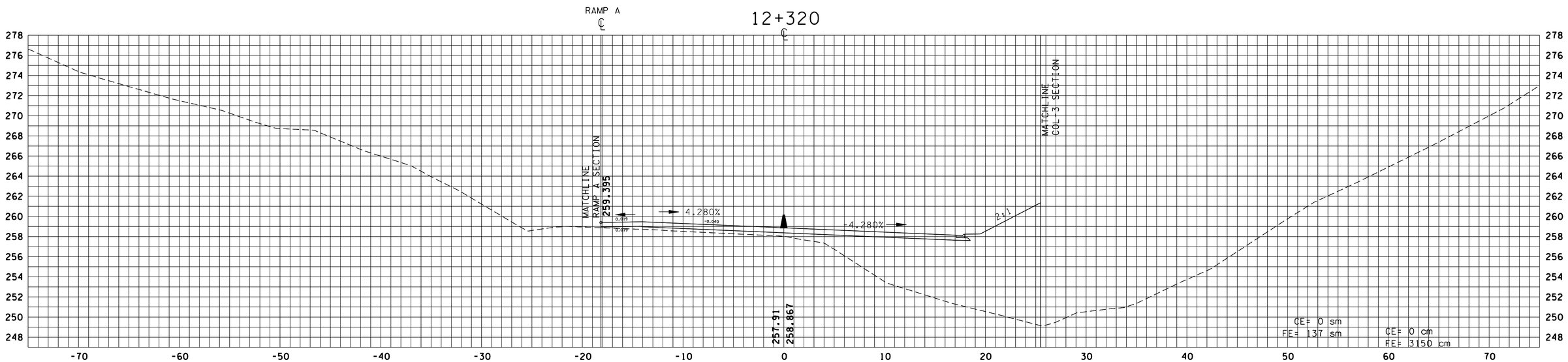
REV. 04-13-2015: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

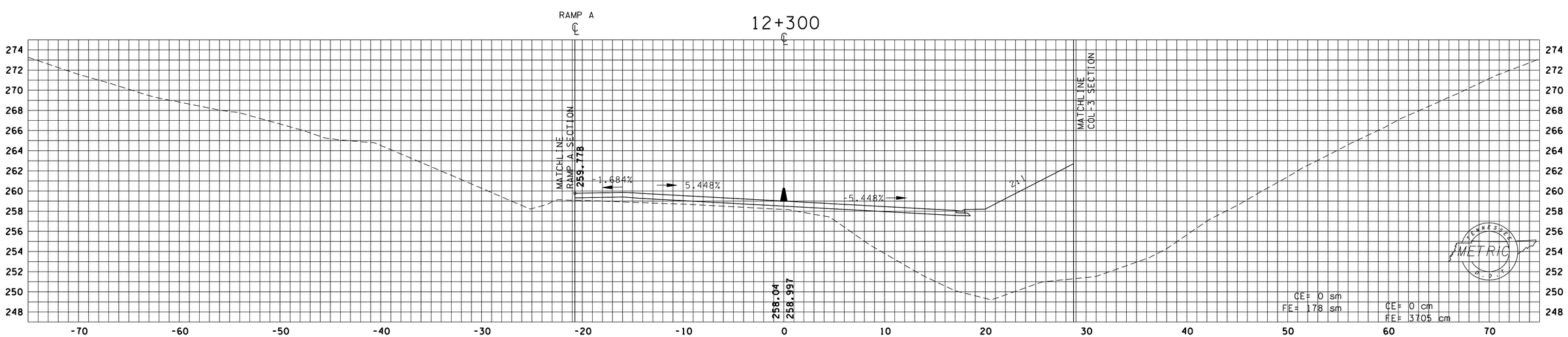




TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	151
CONST.	2016	47026-3279-14	211

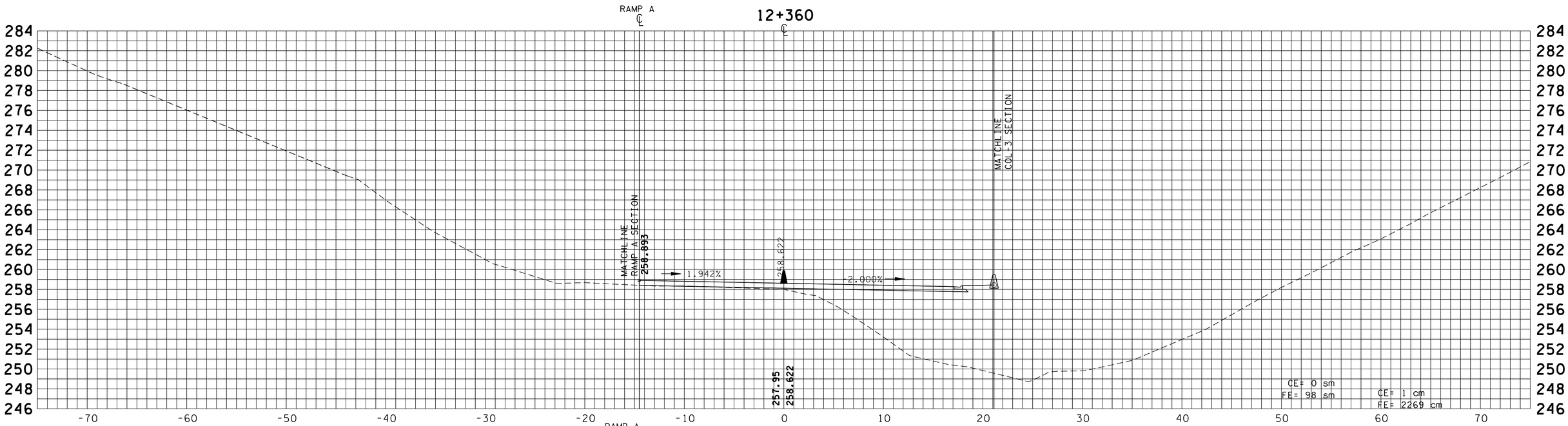
REV. 04-13-2015: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

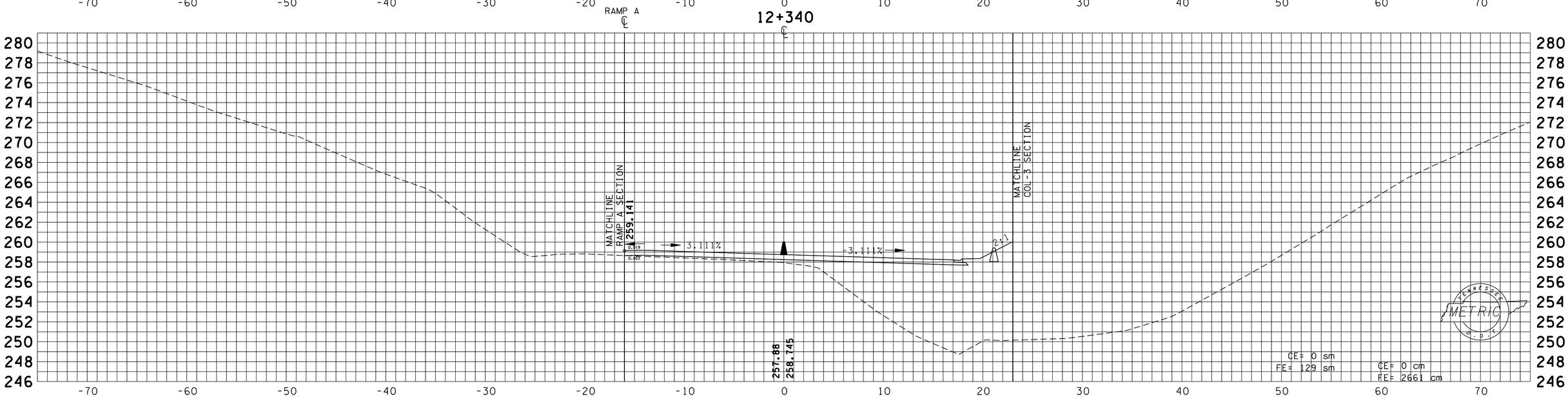




TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	152
CONST.	2016	47026-3279-14	212

REV. 04-13-2015: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

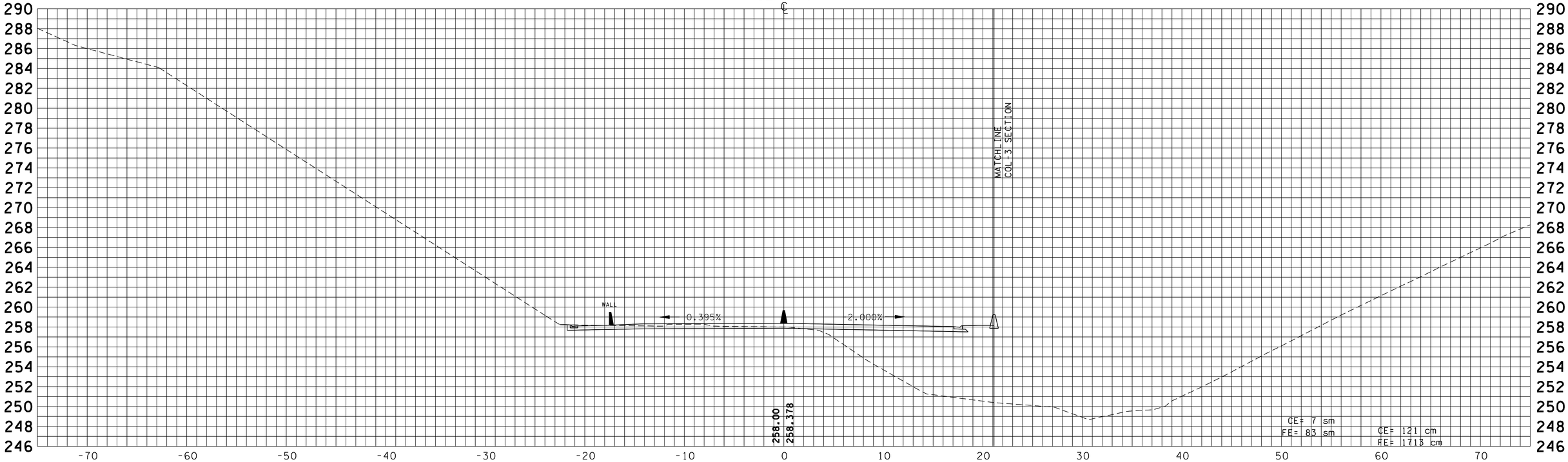




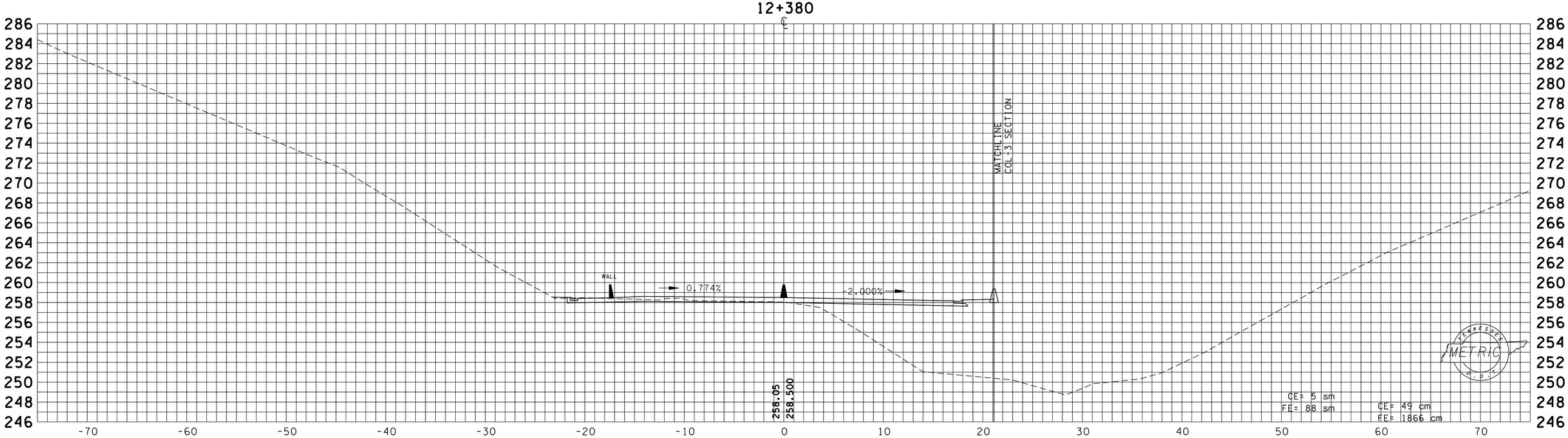
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	153
CONST.	2016	47026-3279-14	213

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

12+400



12+380

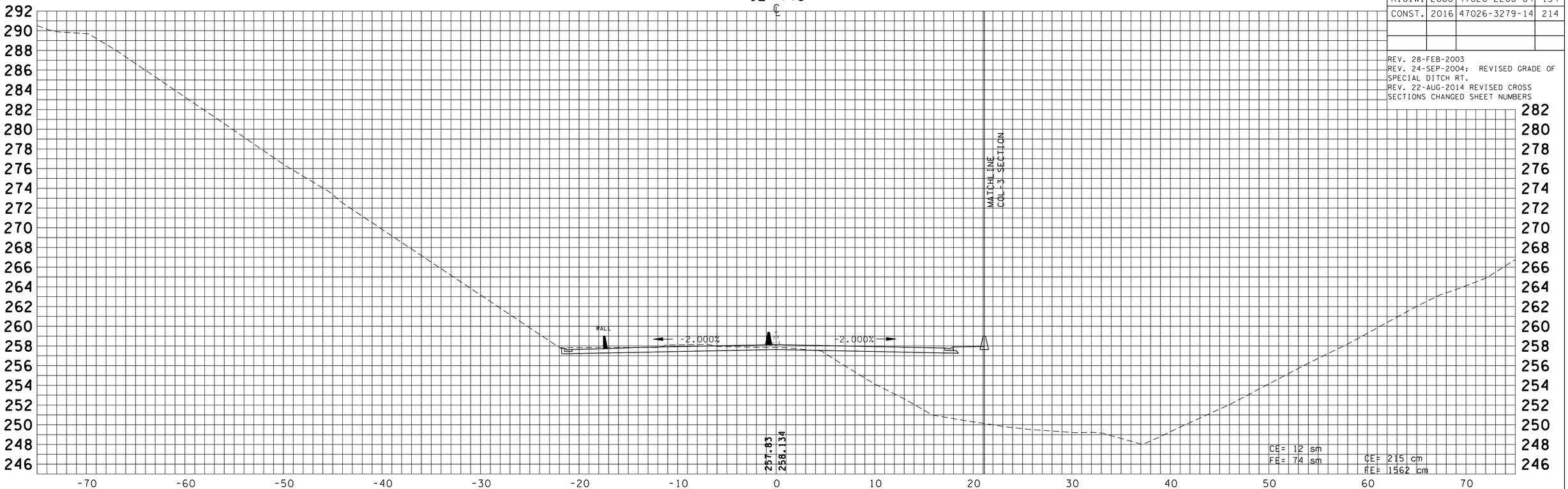


TENNESSEE METRIC

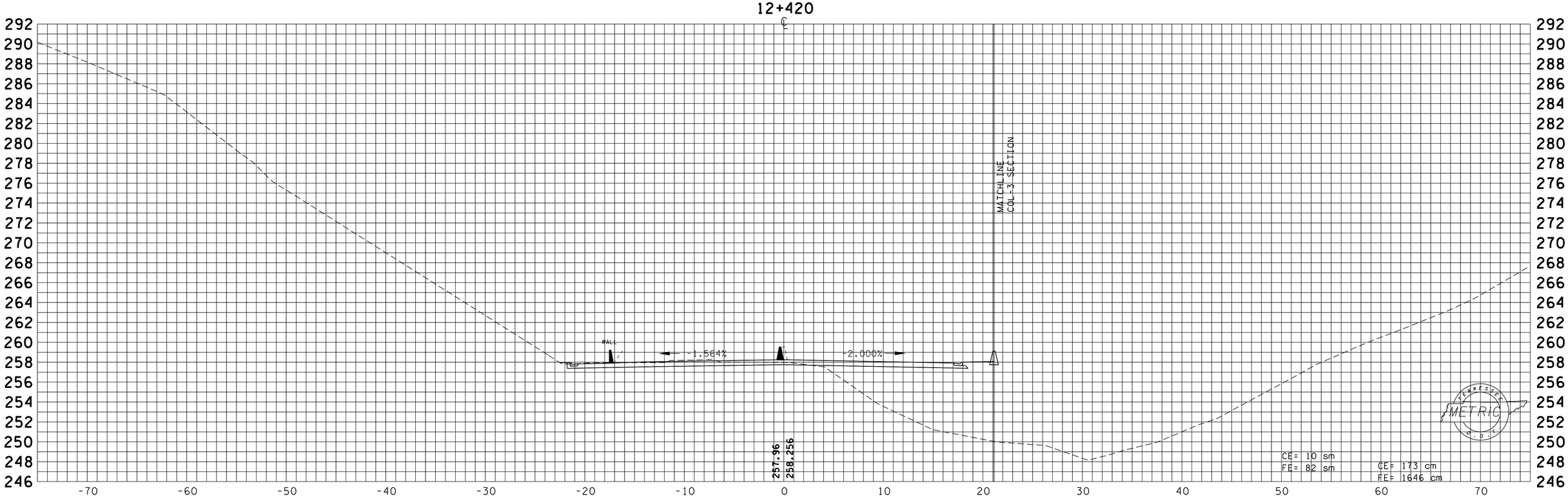
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	154
CONST.	2016	47026-3279-14	214

REV. 28-FEB-2003
REV. 24-SEP-2004: REVISED GRADE OF SPECIAL DITCH RT.
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

12+440



12+420

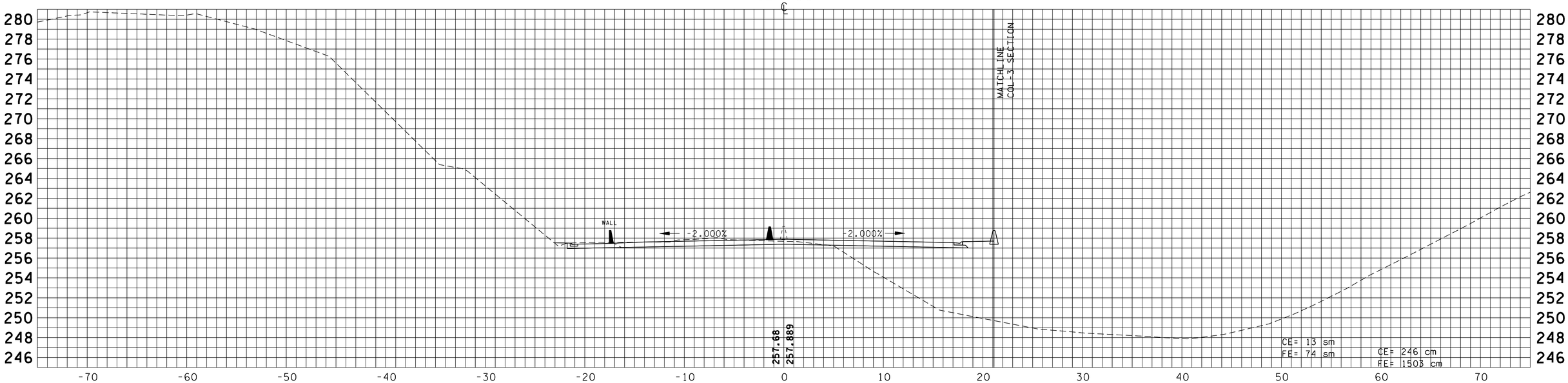


TENNESSEE METRIC DOT

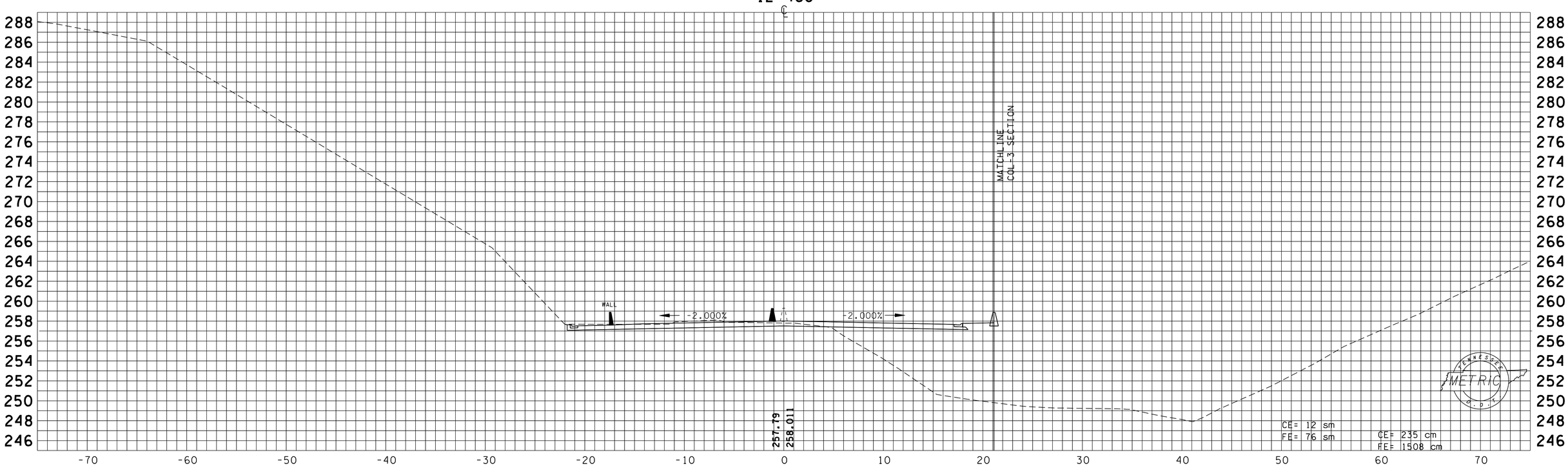
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	155
CONST.	2016	47026-3279-14	215

REV. 28-FEB-2003
REV. 24-SEP-2004: REVISED GRADE OF SPECIAL DITCH RT.
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

12+480



12+460

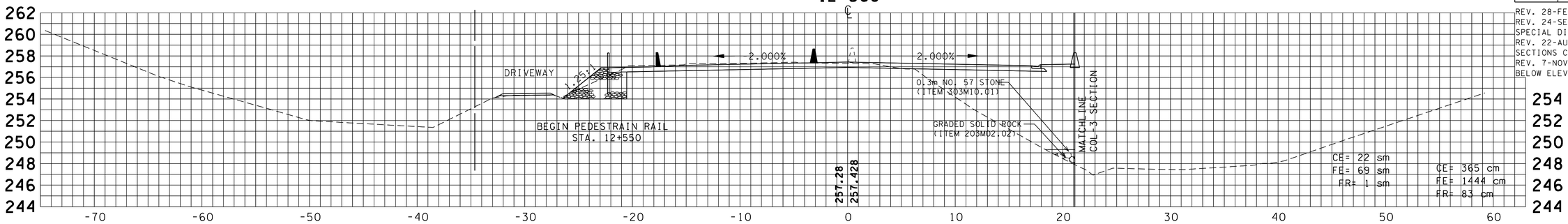


TENNESSEE METRIC DOT

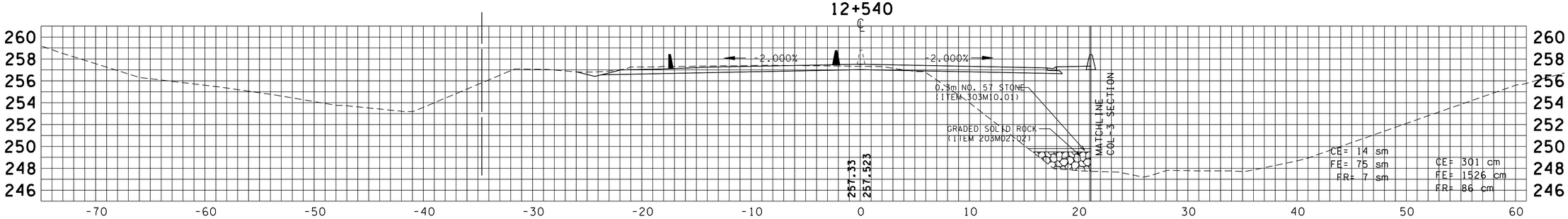
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	156
CONST.	2016	47026-3279-14	216

REV. 28-FEB-2003
REV. 24-SEP-2004: REVISED GRADE OF SPECIAL DITCH RT.
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 7-NOV-2014: ADDED FILL AREA BELOW ELEVATION 247.65.

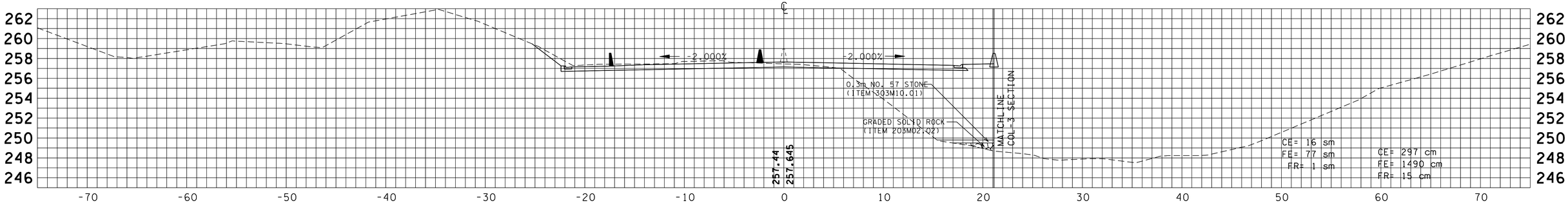
12+560



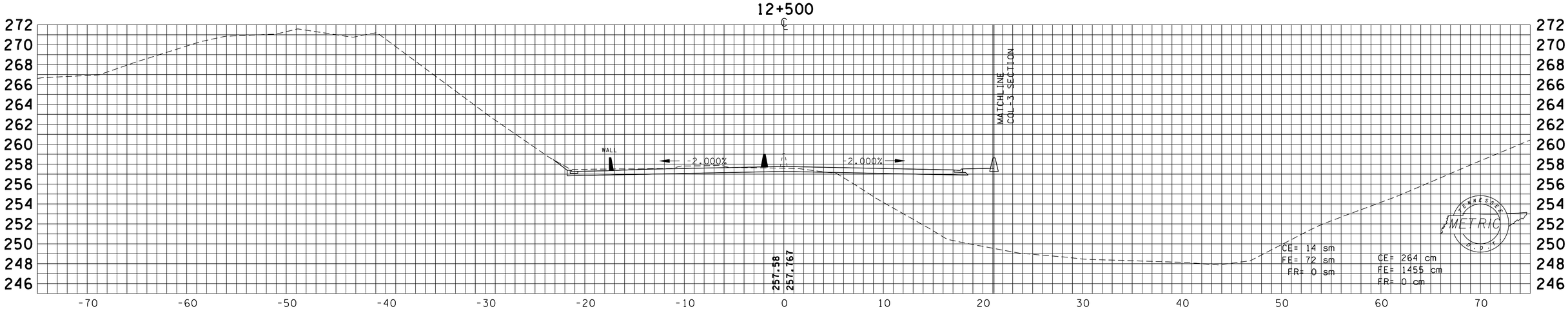
12+540



12+520



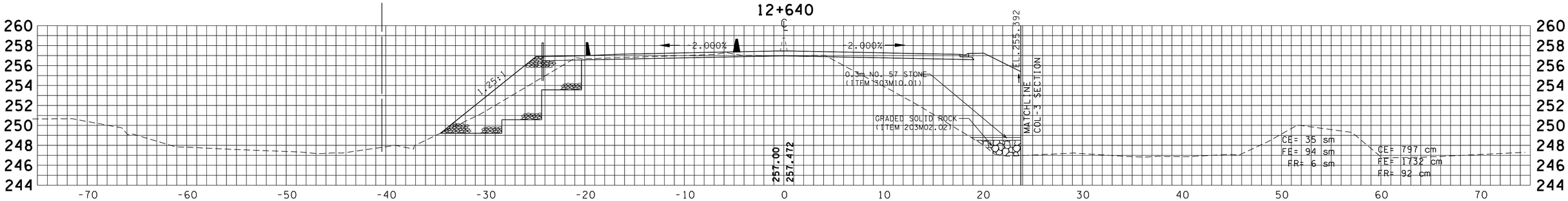
12+500



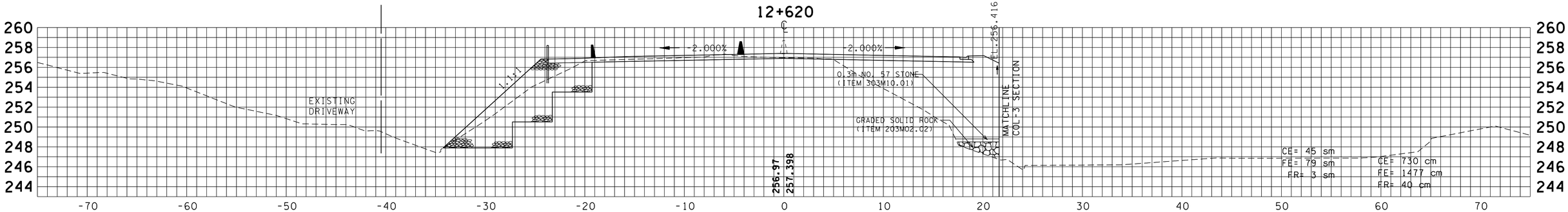
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	157
CONST.	2016	47026-3279-14	217

REV. 28-FEB-2003
REV. 24-SEP-2004: REVISED GRADE OF SPECIAL DITCH RT. AND ADDED RETAINING WALLS.
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS.
REV. 7-NOV-2014: ADDED FILL AREA BELOW ELEVATION 247.65.

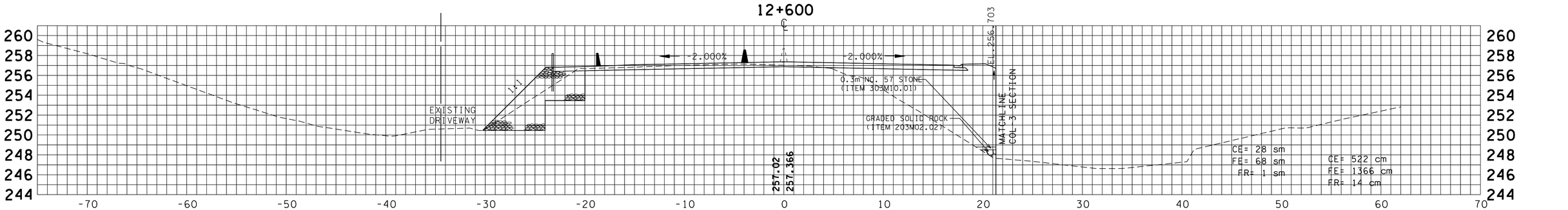
12+640



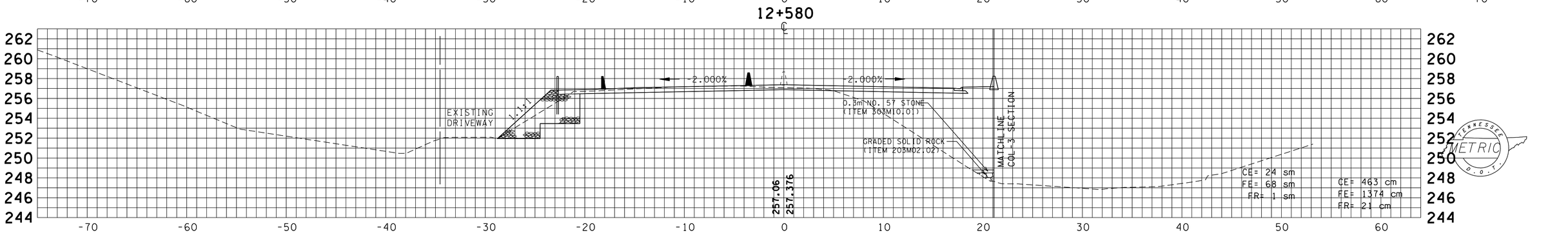
12+620



12+600



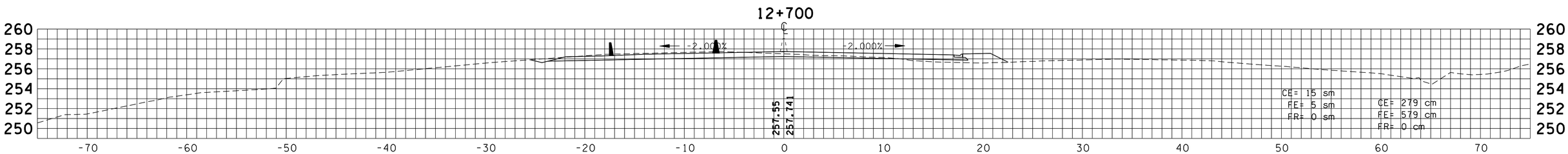
12+580

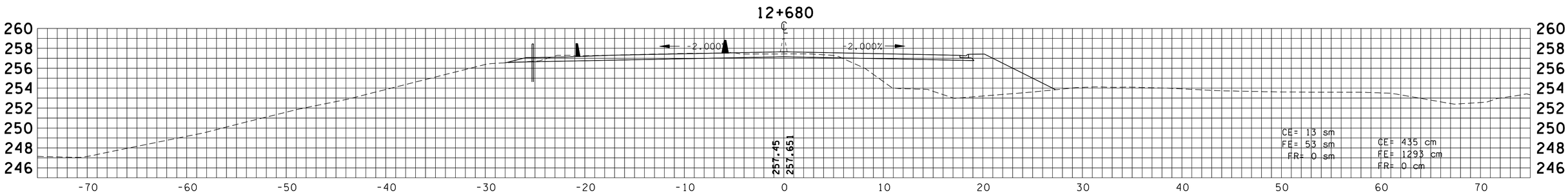


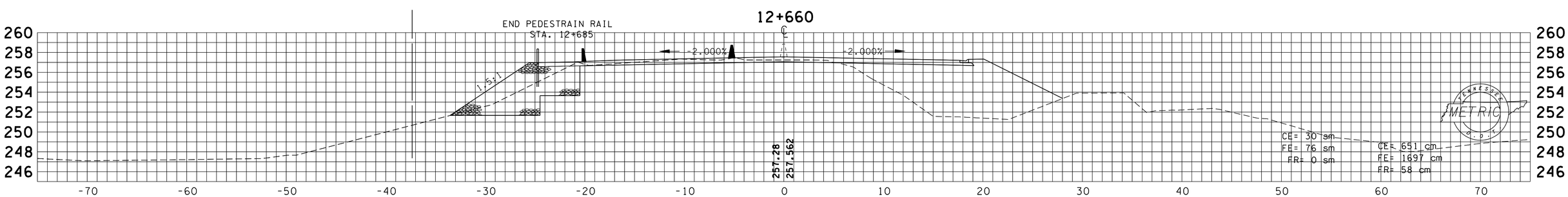
TENNESSEE METRIC D.O.T.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	158
CONST.	2016	47026-3279-14	218

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

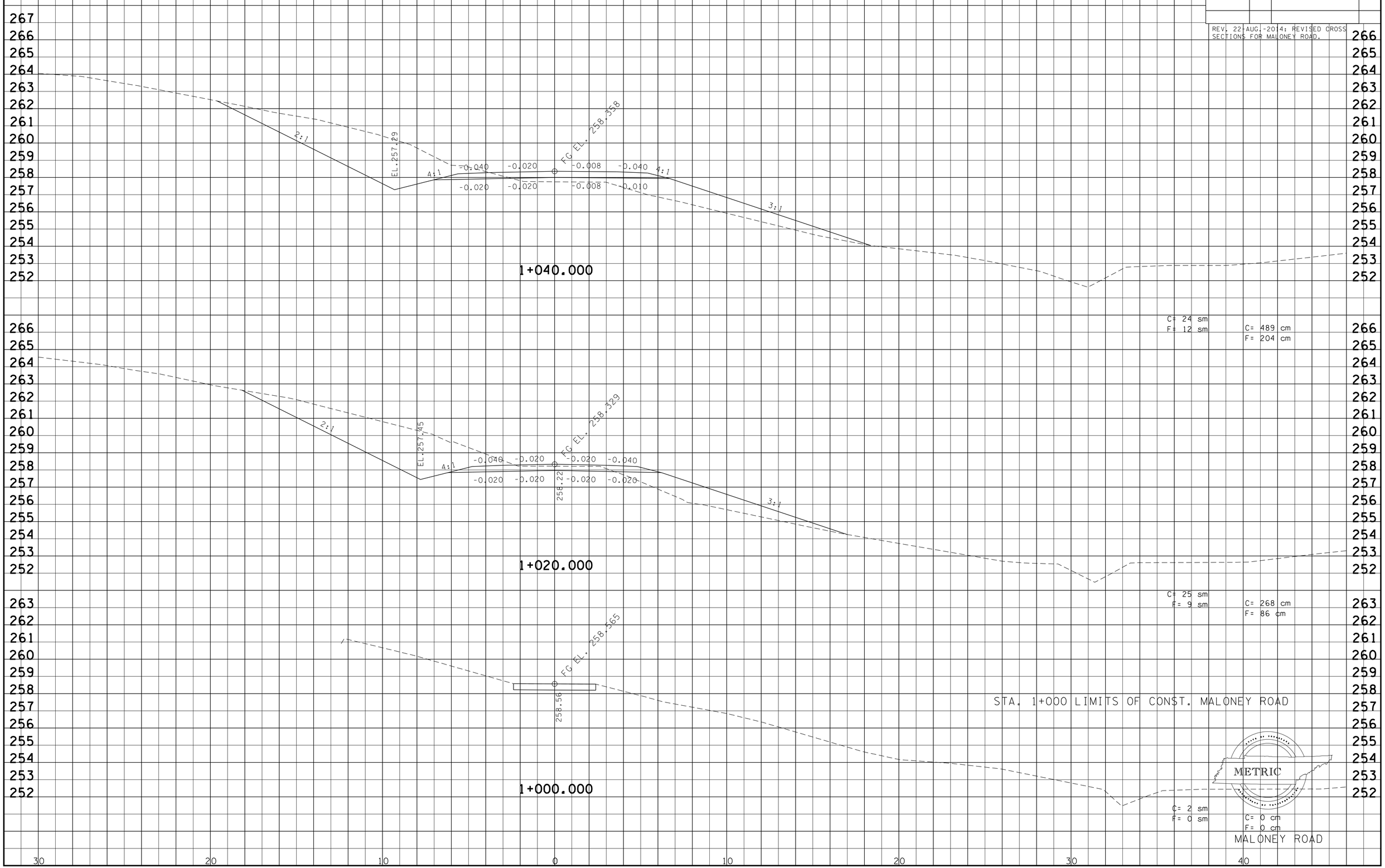






TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	159
CONST.	2016	47026-3279-14	219

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MALONEY ROAD.



METRIC

9/30/2015
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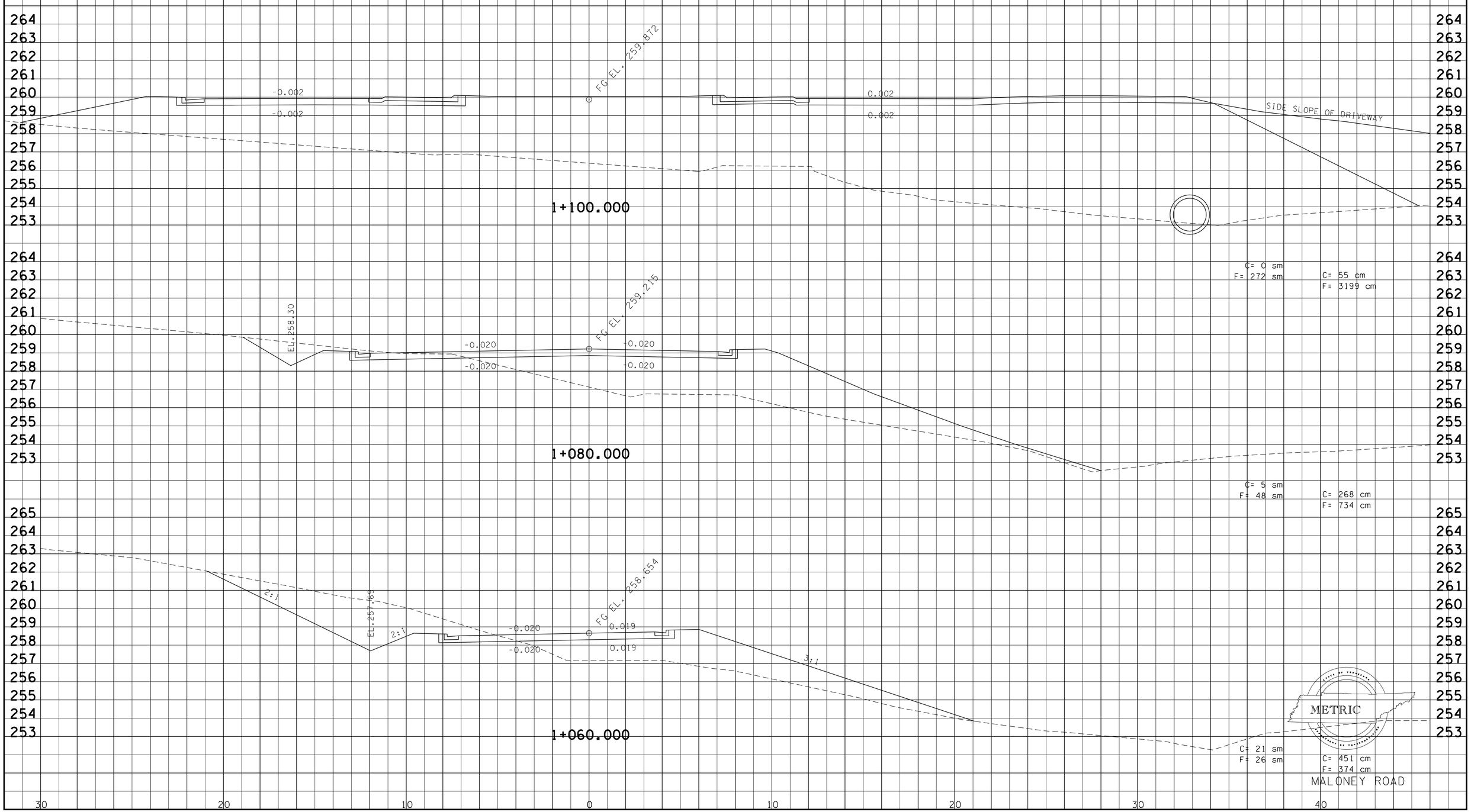
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	160
CONST.	2016	47026-3279-14	220

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MALONEY ROAD.



9/30/2015
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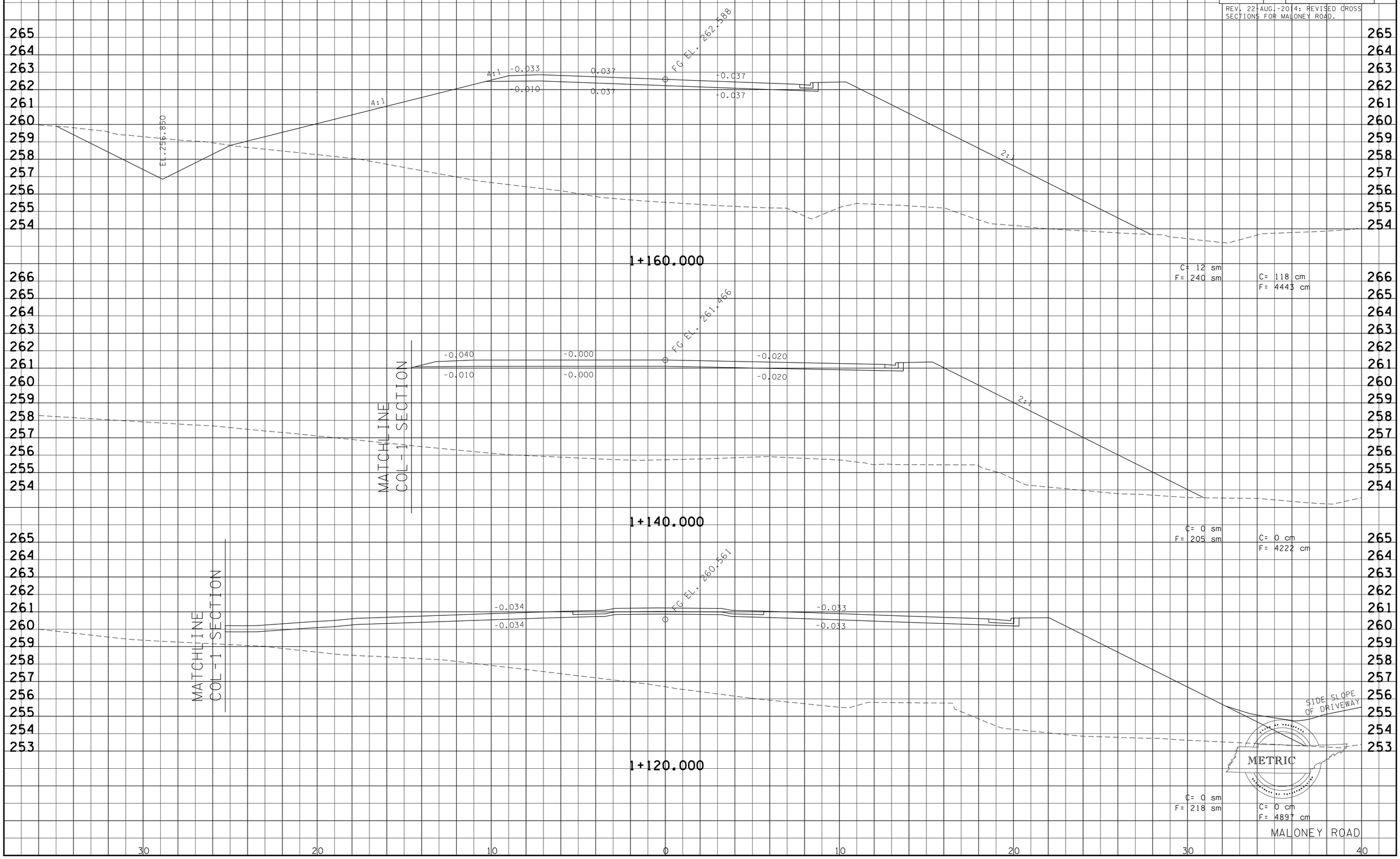
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	161
CONST	2016	47026-3279-14	221

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MALONEY ROAD.



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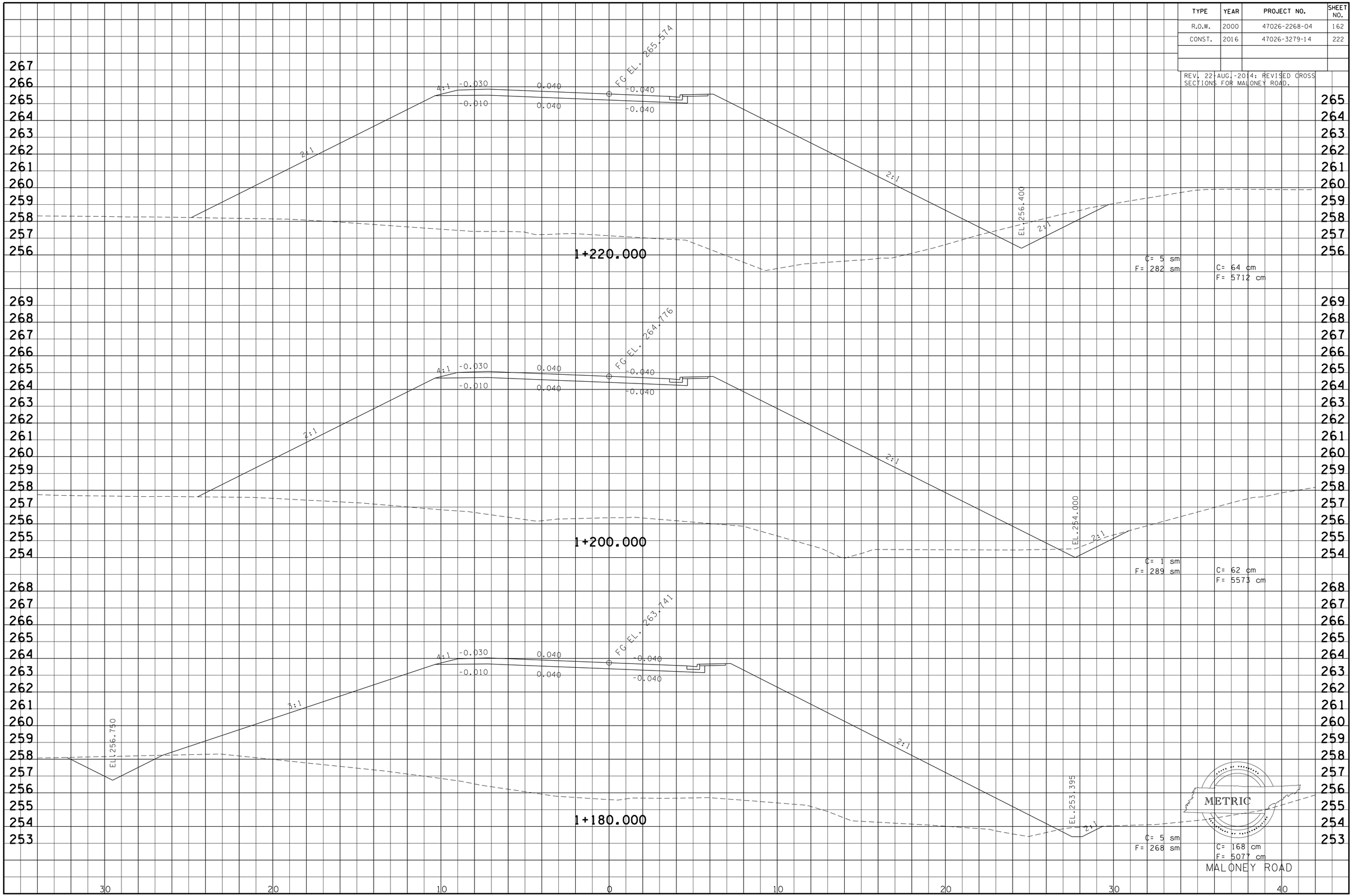
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	162
CONST.	2016	47026-3279-14	222

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MALONEY ROAD.



9/30/2015
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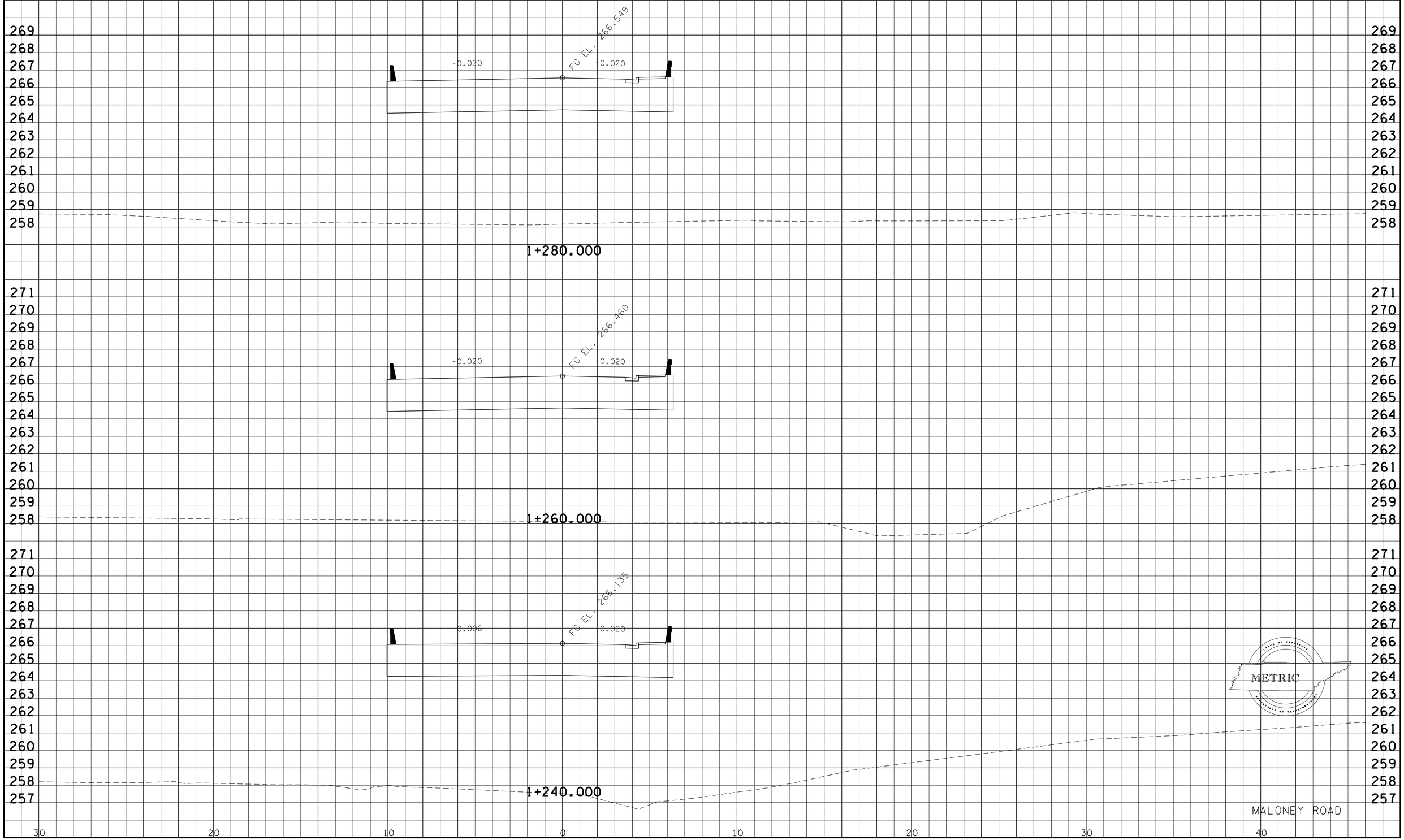
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	163
CONST.	2016	47026-3279-14	223

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MALONEY ROAD.



9/30/2015
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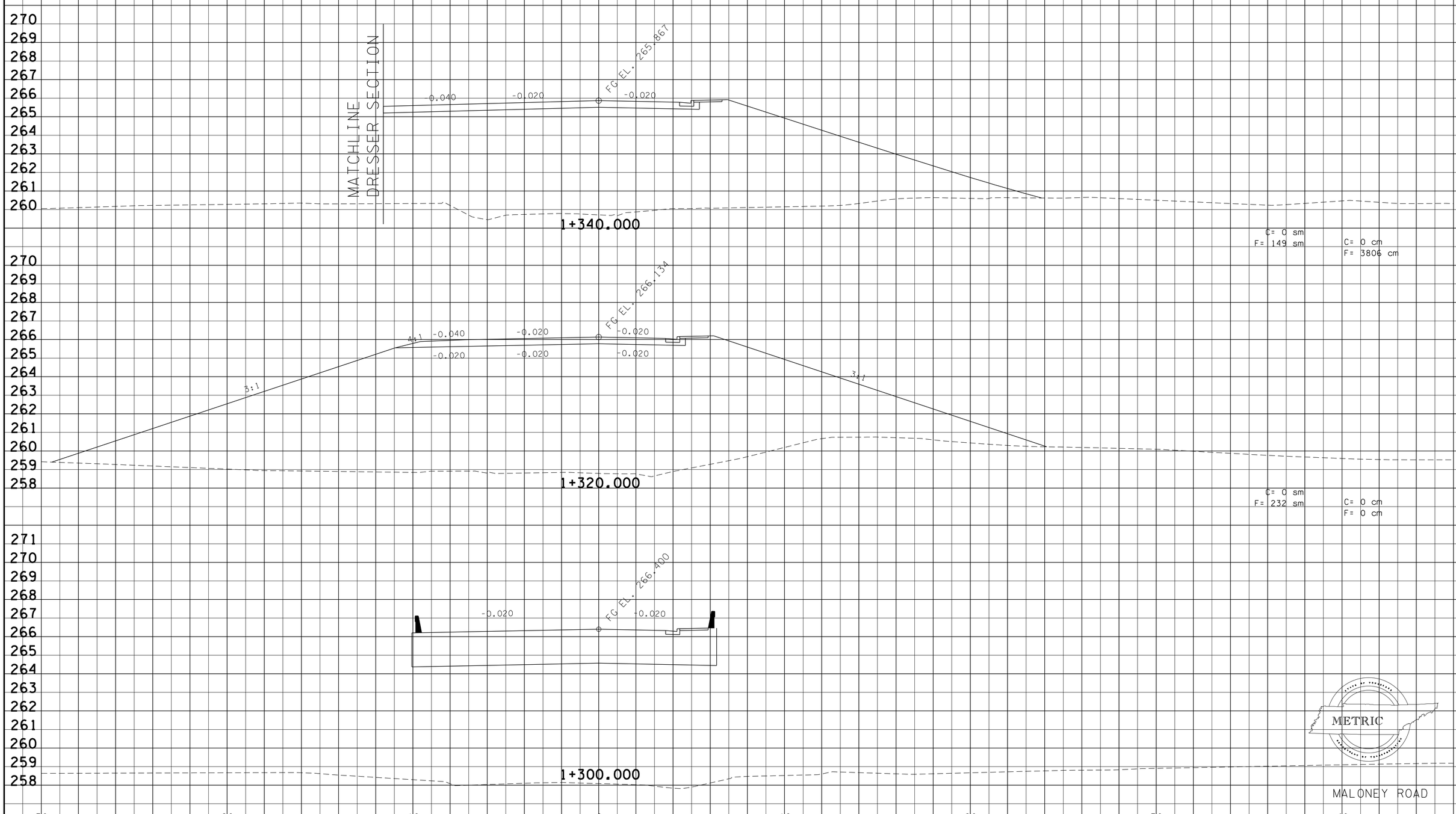
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	164
CONST.	2016	47026-3279-14	224

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MALONEY ROAD.



9/30/2015
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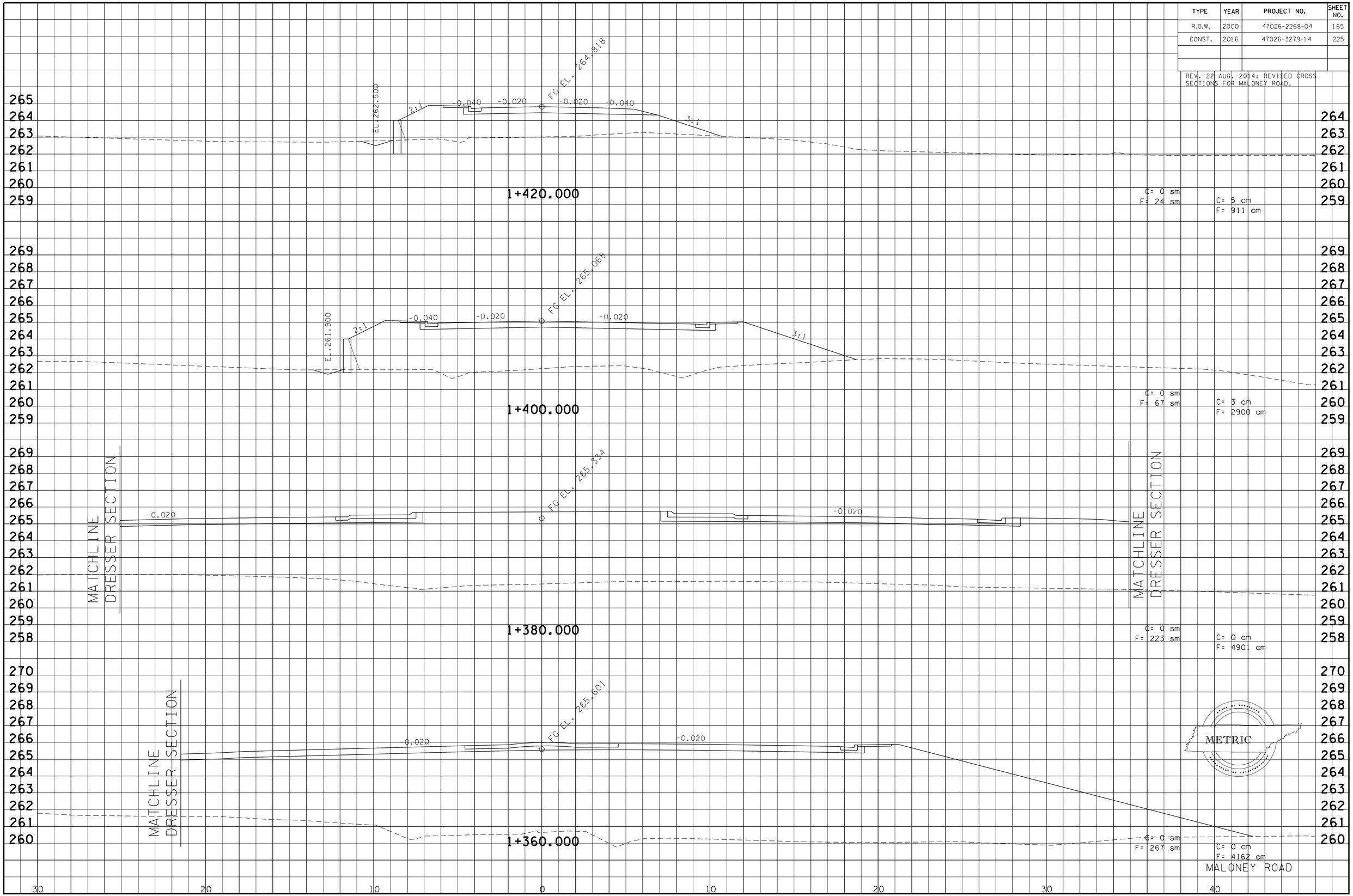
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	165
CONST.	2016	47026-3279-14	225

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MALONEY ROAD.



9/30/2015
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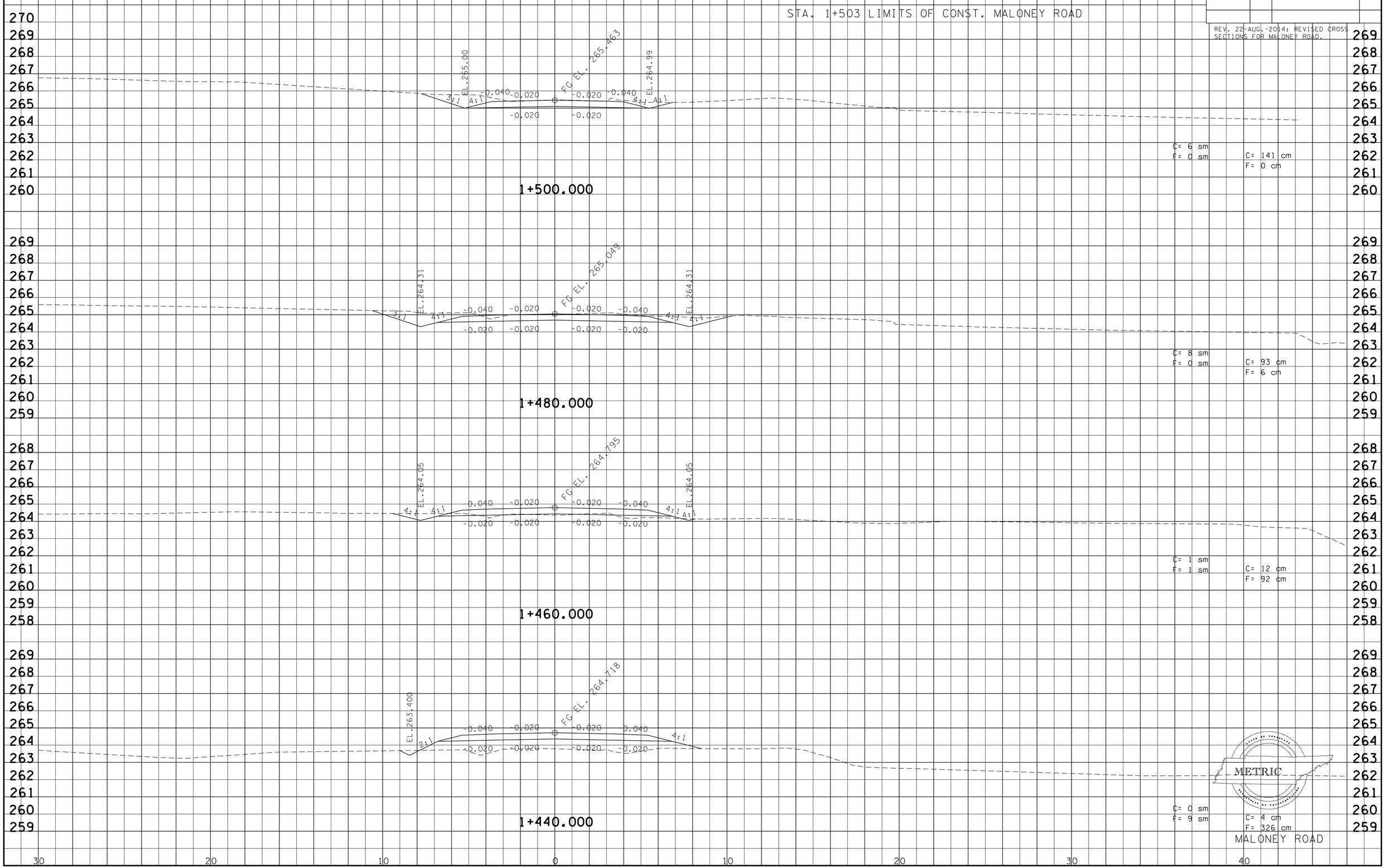
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	166
CONST.	2016	47026-3279-14	226

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MALONEY ROAD.

STA. 1+503 LIMITS OF CONST. MALONEY ROAD



9/30/2015
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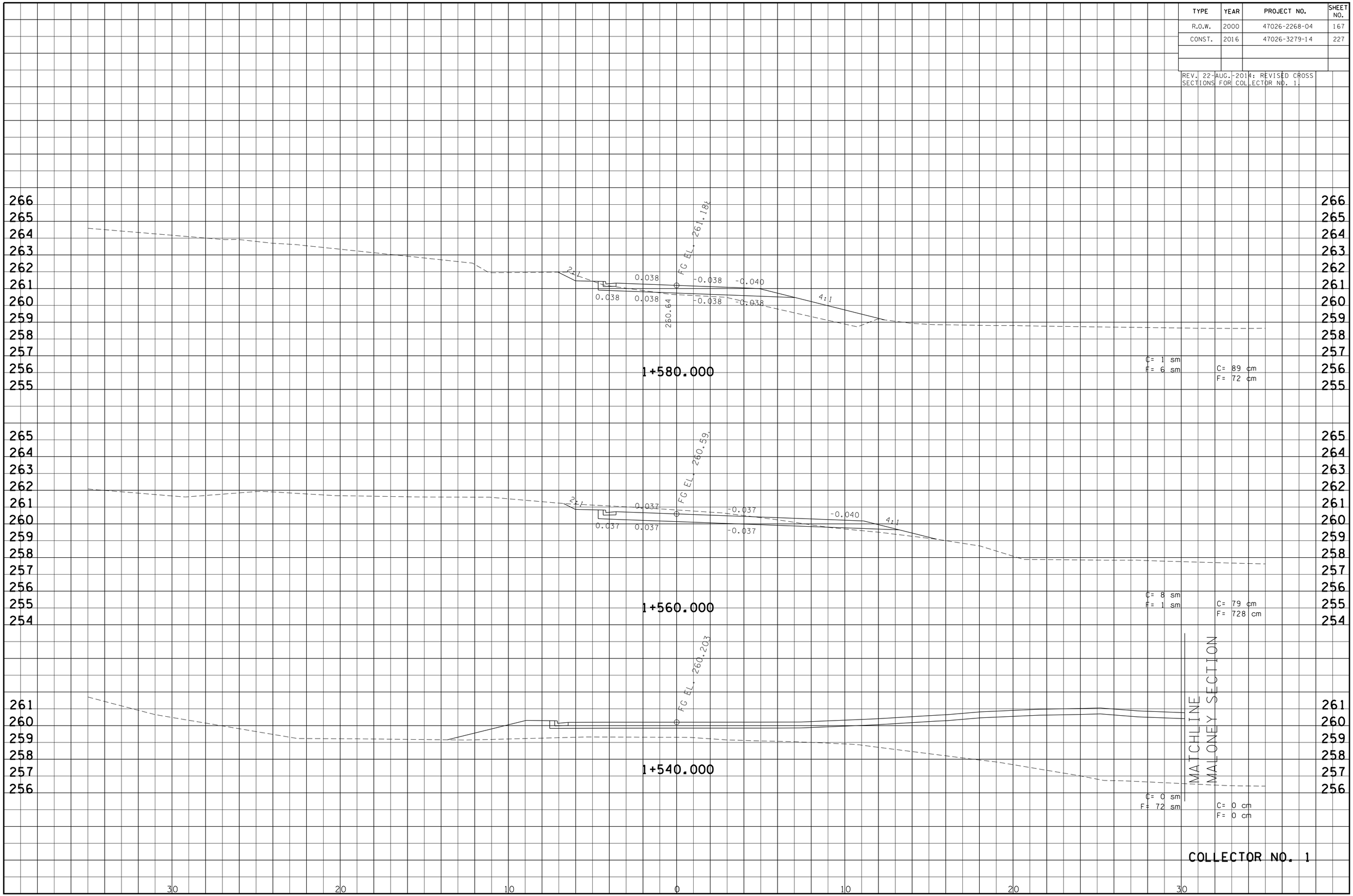
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	167
CONST.	2016	47026-3279-14	227

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 1.



COLLECTOR NO. 1

9/30/2015
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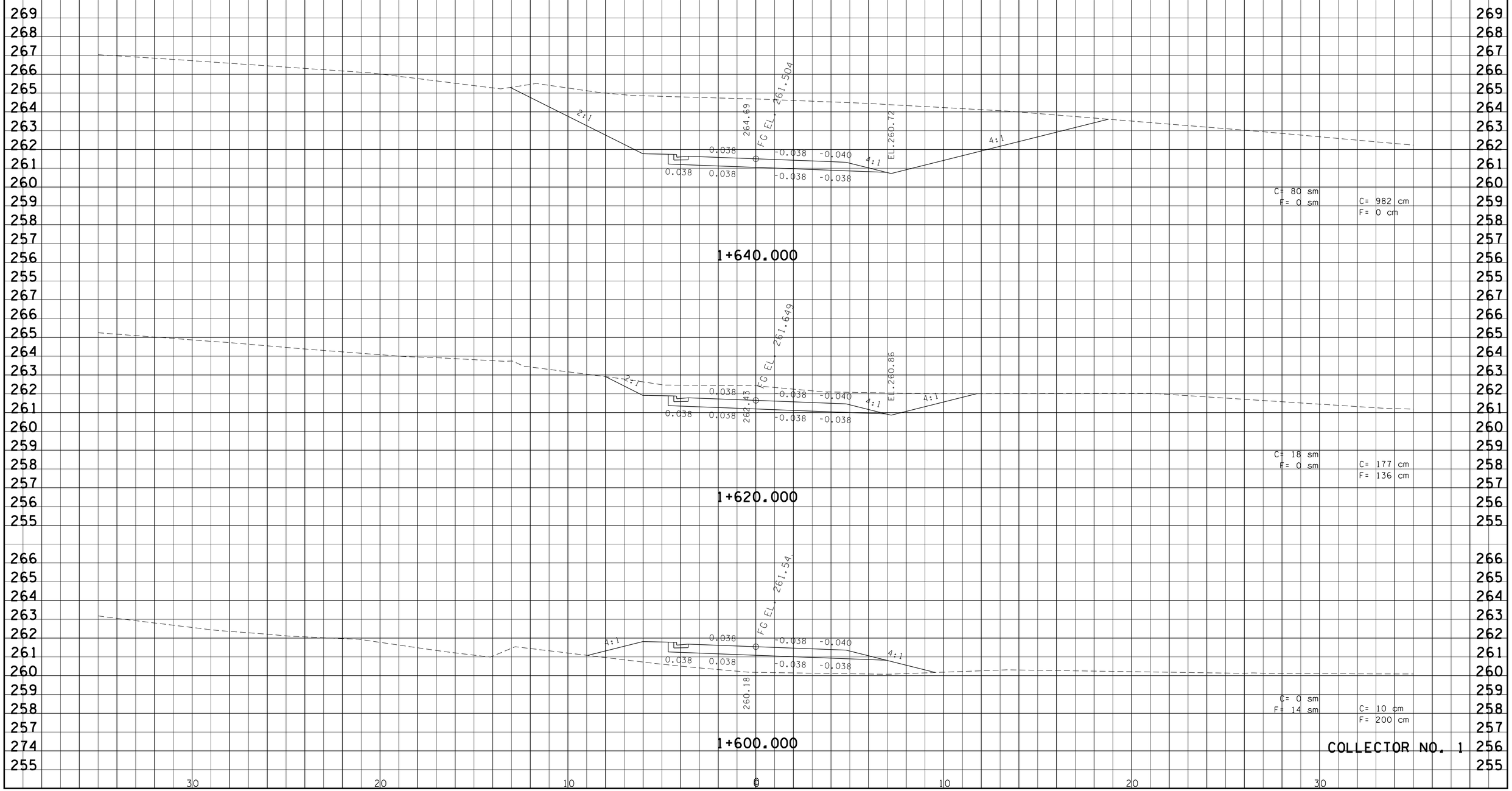
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	168
CONST.	2016	47026-3279-14	228

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 1.



9/30/2015
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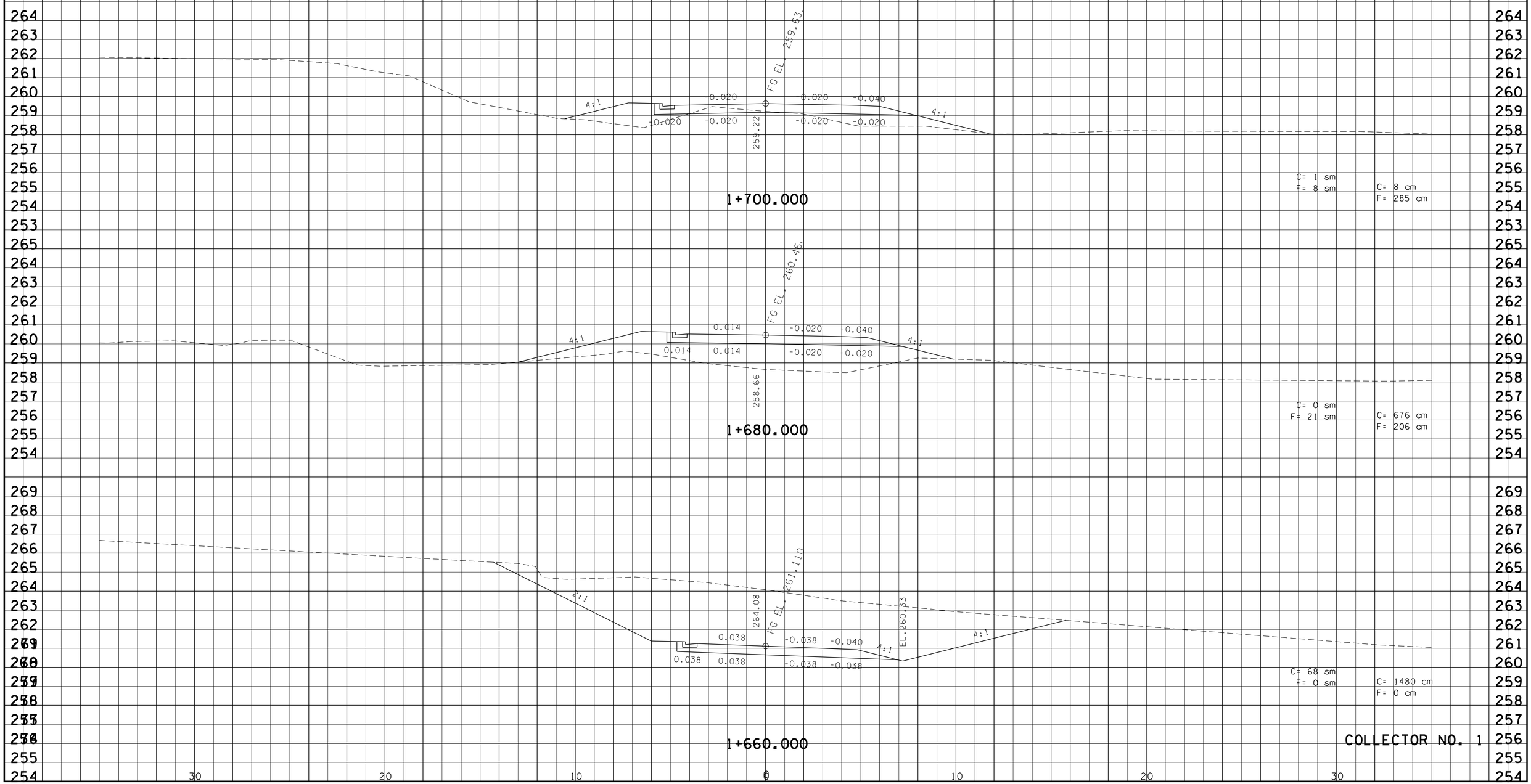
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	169
CONST.	2016	47026-3279-14	229

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 1.



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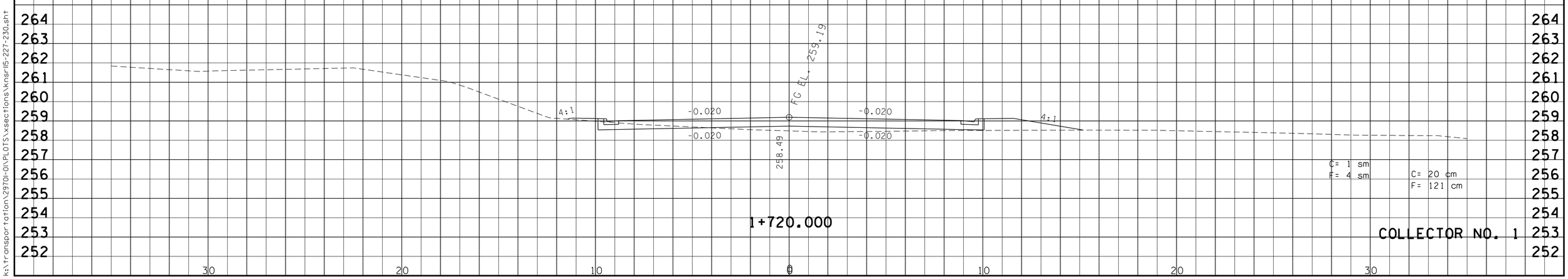
9/30/2015

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	170
CONST.	2016	47026-3279-14	230

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 1.



1+720.000

COLLECTOR NO. 1

9/30/2015
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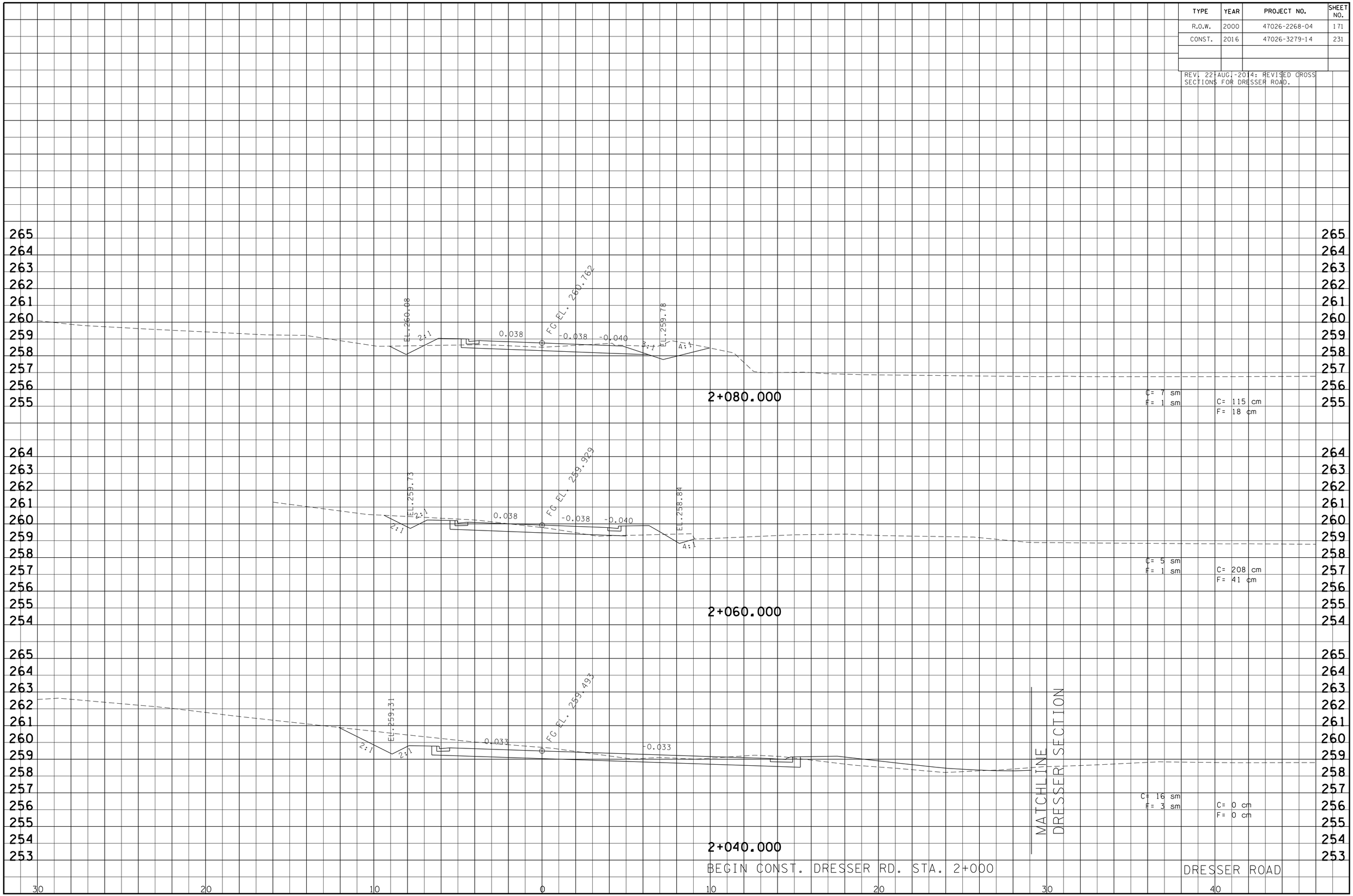
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	171
CONST.	2016	47026-3279-14	231

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR DRESSER ROAD.



9/30/2015
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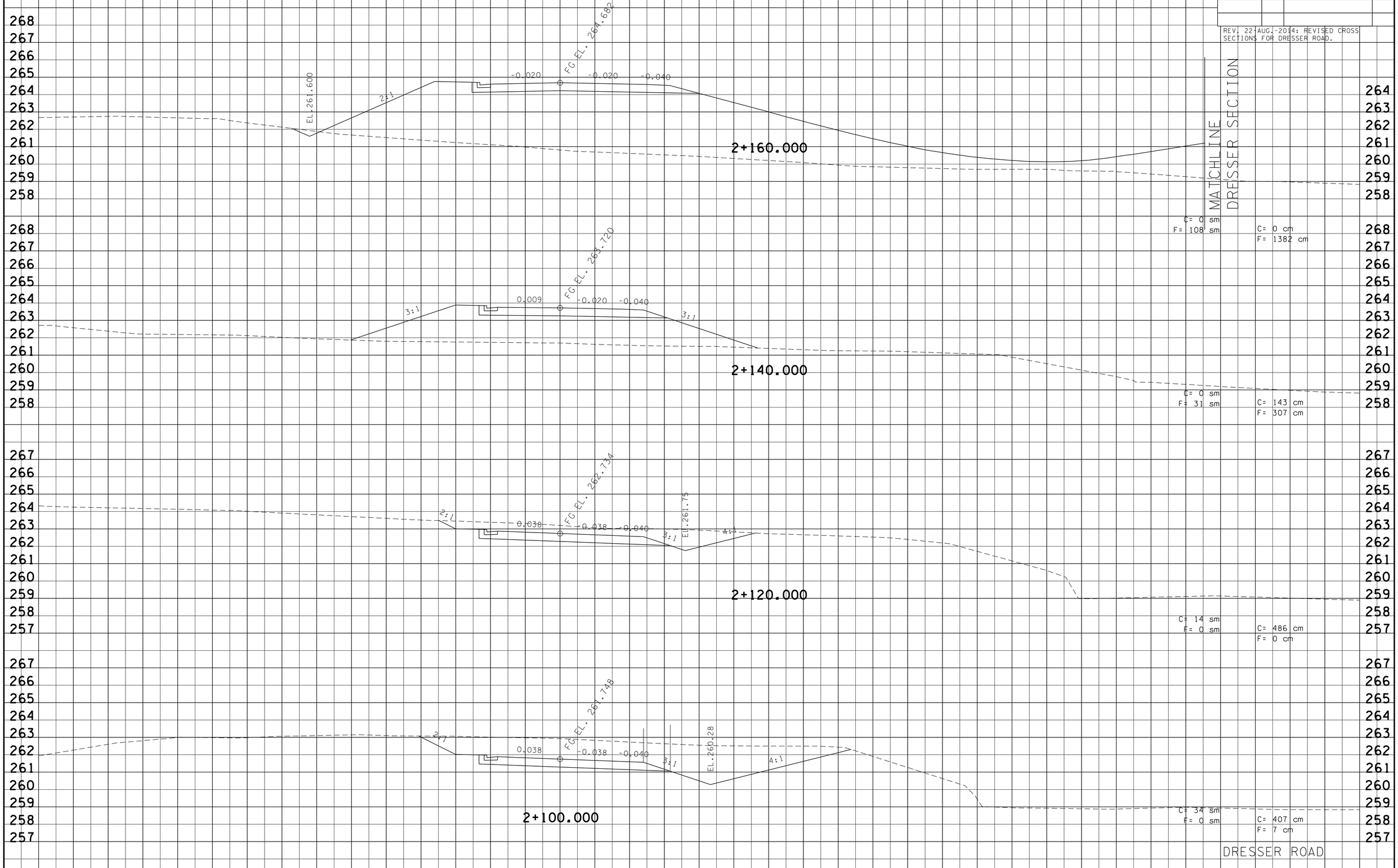
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	172
CONST.	2016	47026-3279-14	232

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR DRESSER ROAD.



9/30/2015
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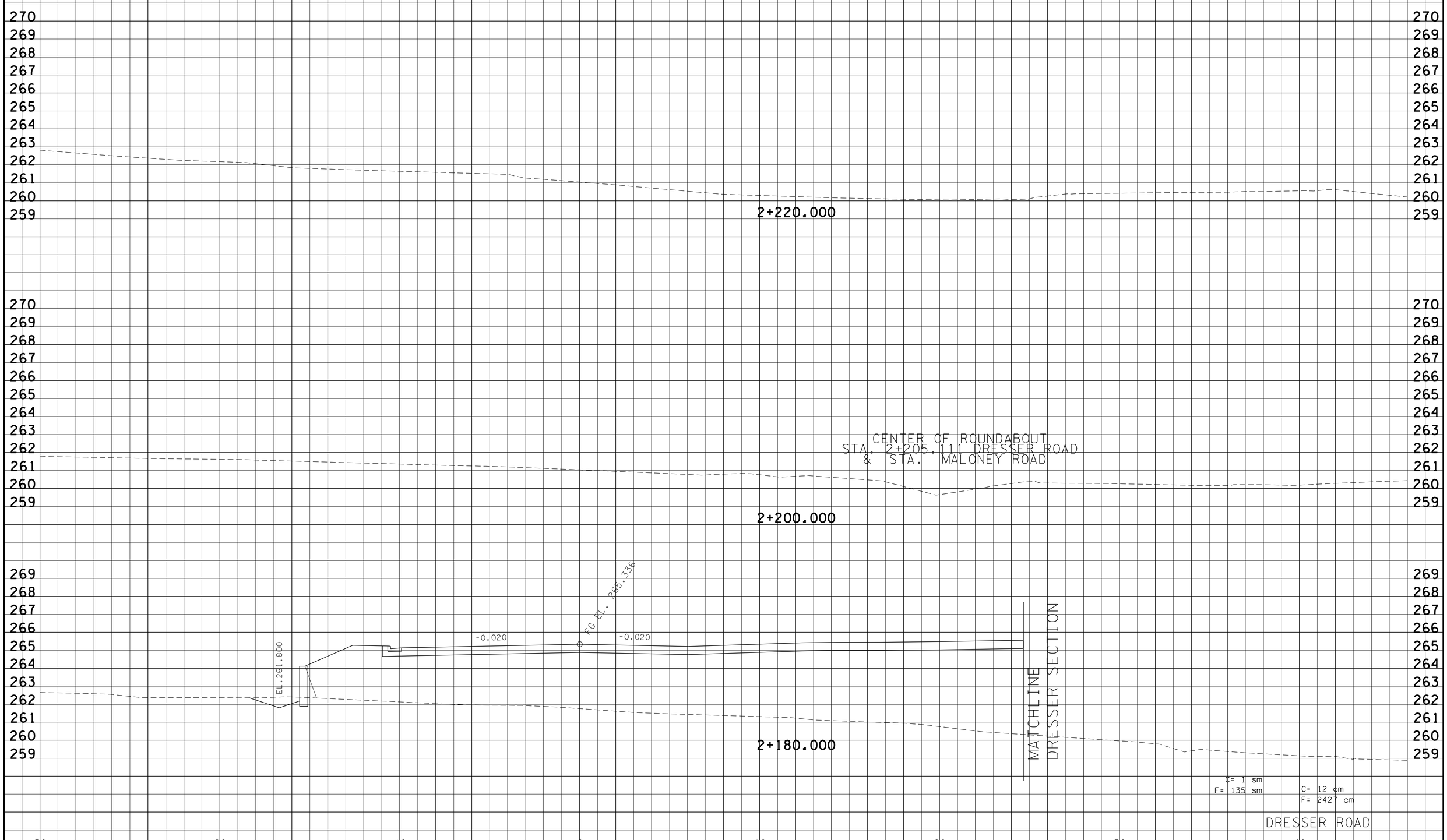
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	173
CONST.	2016	47026-3279-14	233

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR DRESSER ROAD.



9/30/2015
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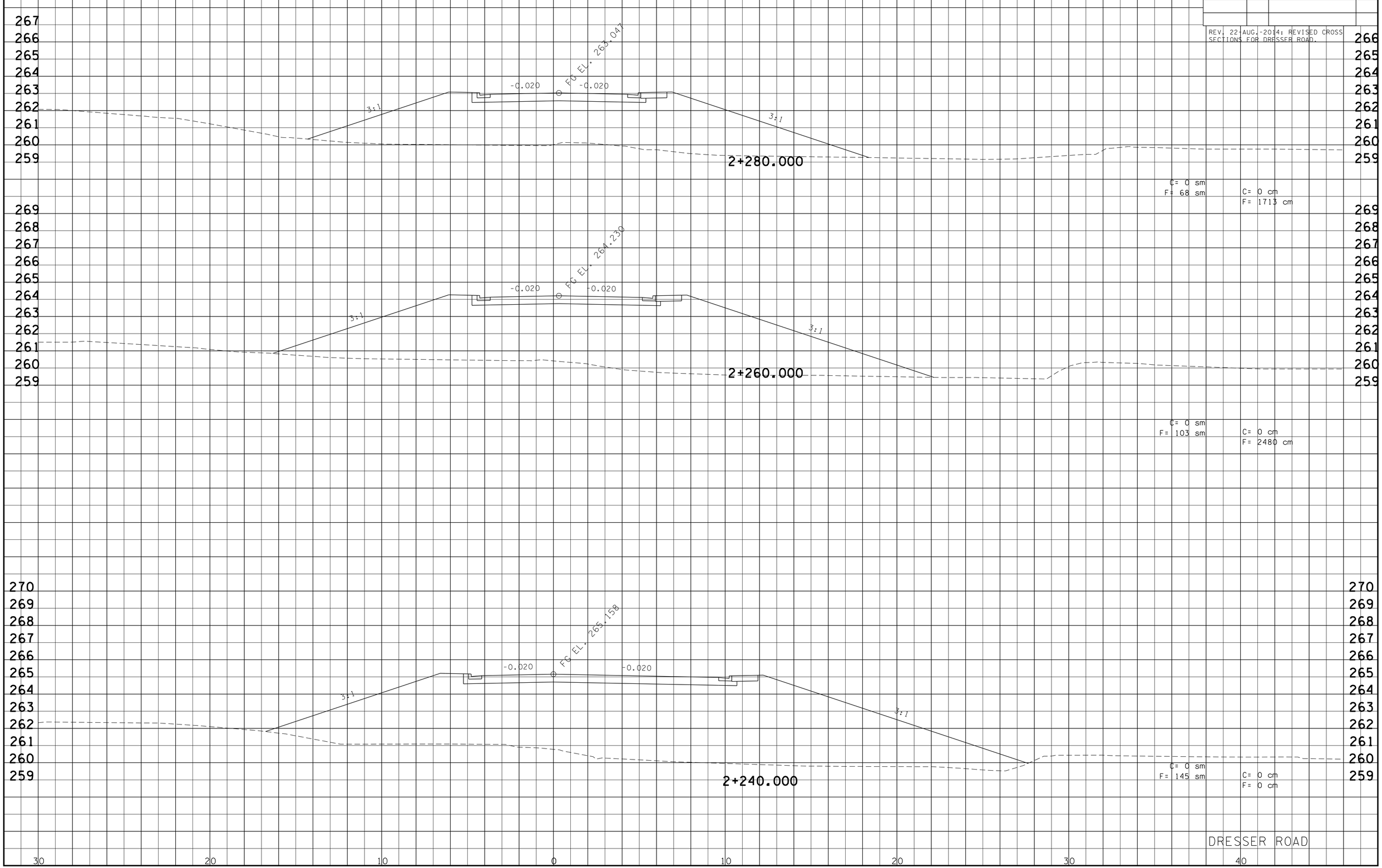
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	174
CONST.	2016	47026-3279-14	234

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR DRESSER ROAD.



9/30/2015
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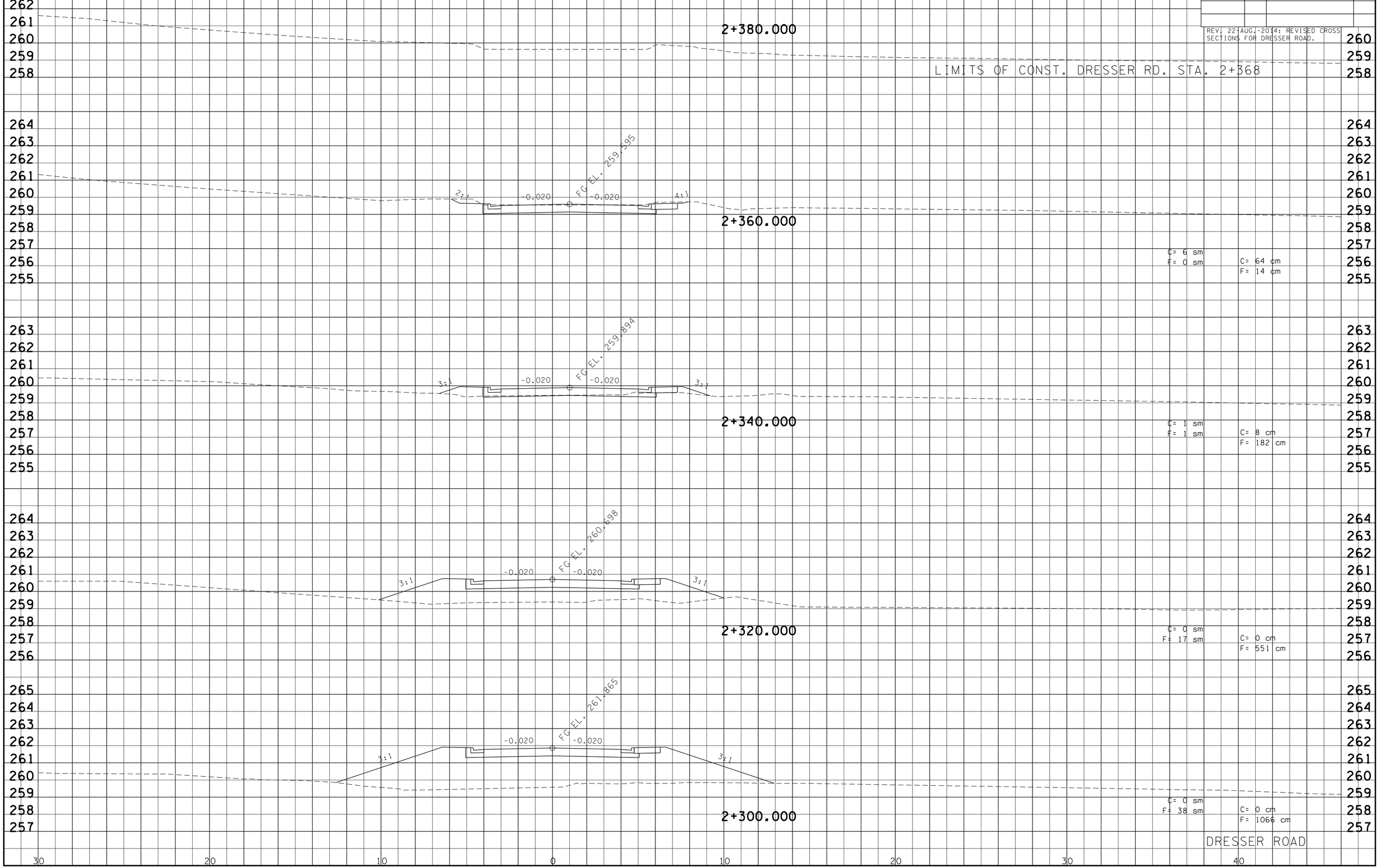
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	175
CONST.	2016	47026-3279-14	235

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR DRESSER ROAD.



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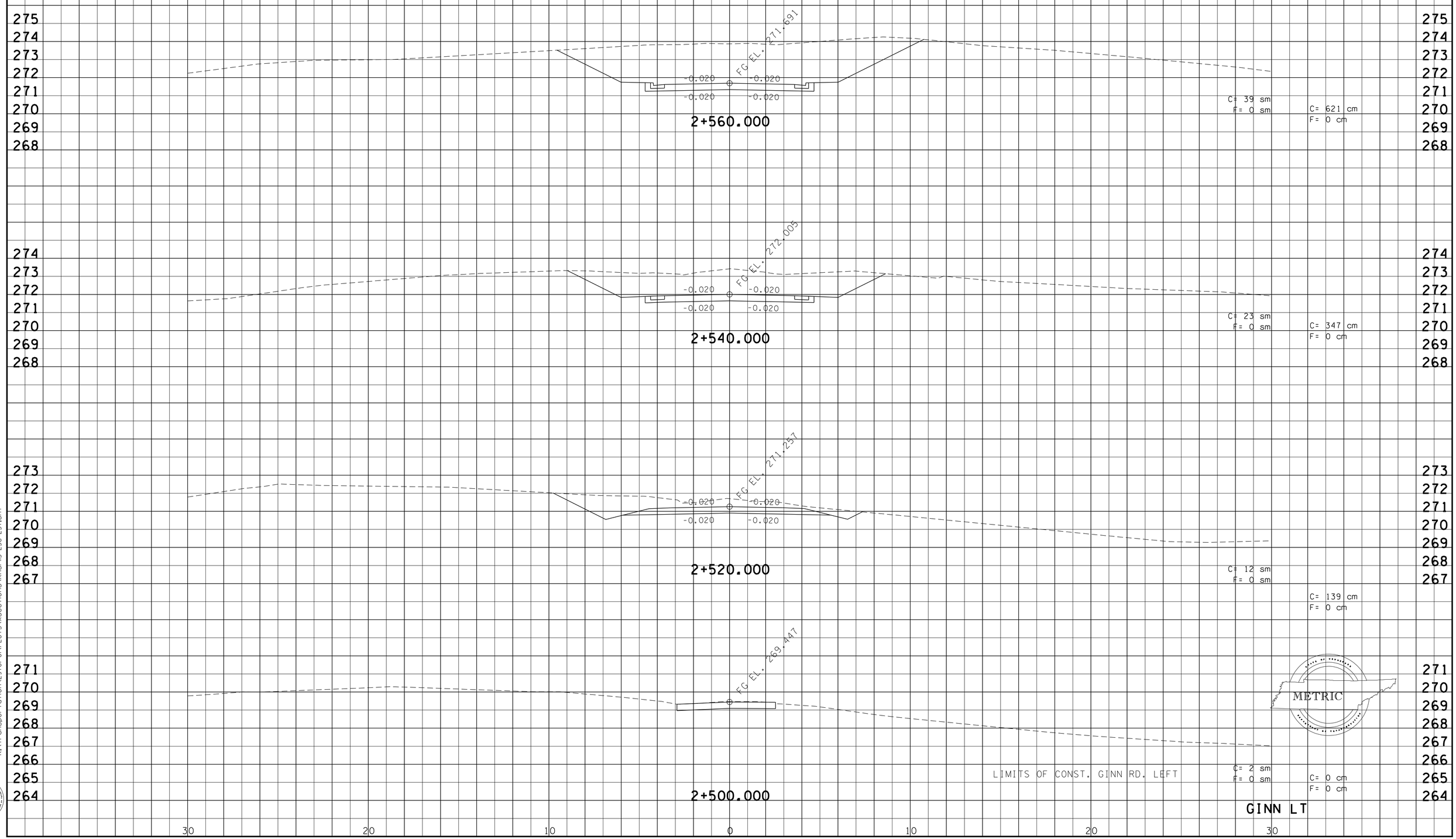
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	176
CONST.	2016	47026-3279-14	236

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR GINN ROAD LT.

FILE NO.



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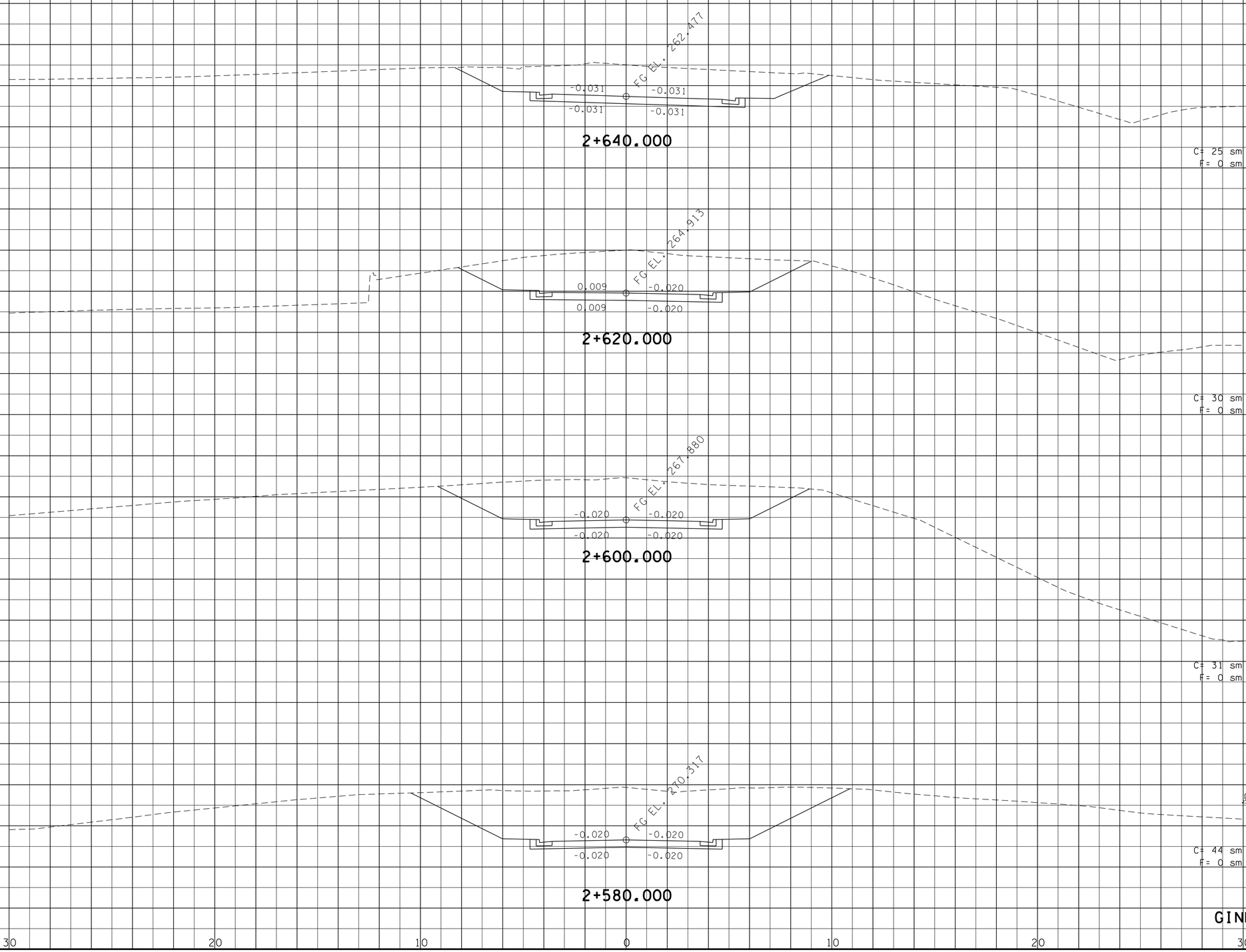
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	177
CONST.	2016	47026-3279-14	237

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR GINN ROAD LT.

FILE NO.



METRIC

GINN LT

9/30/2015
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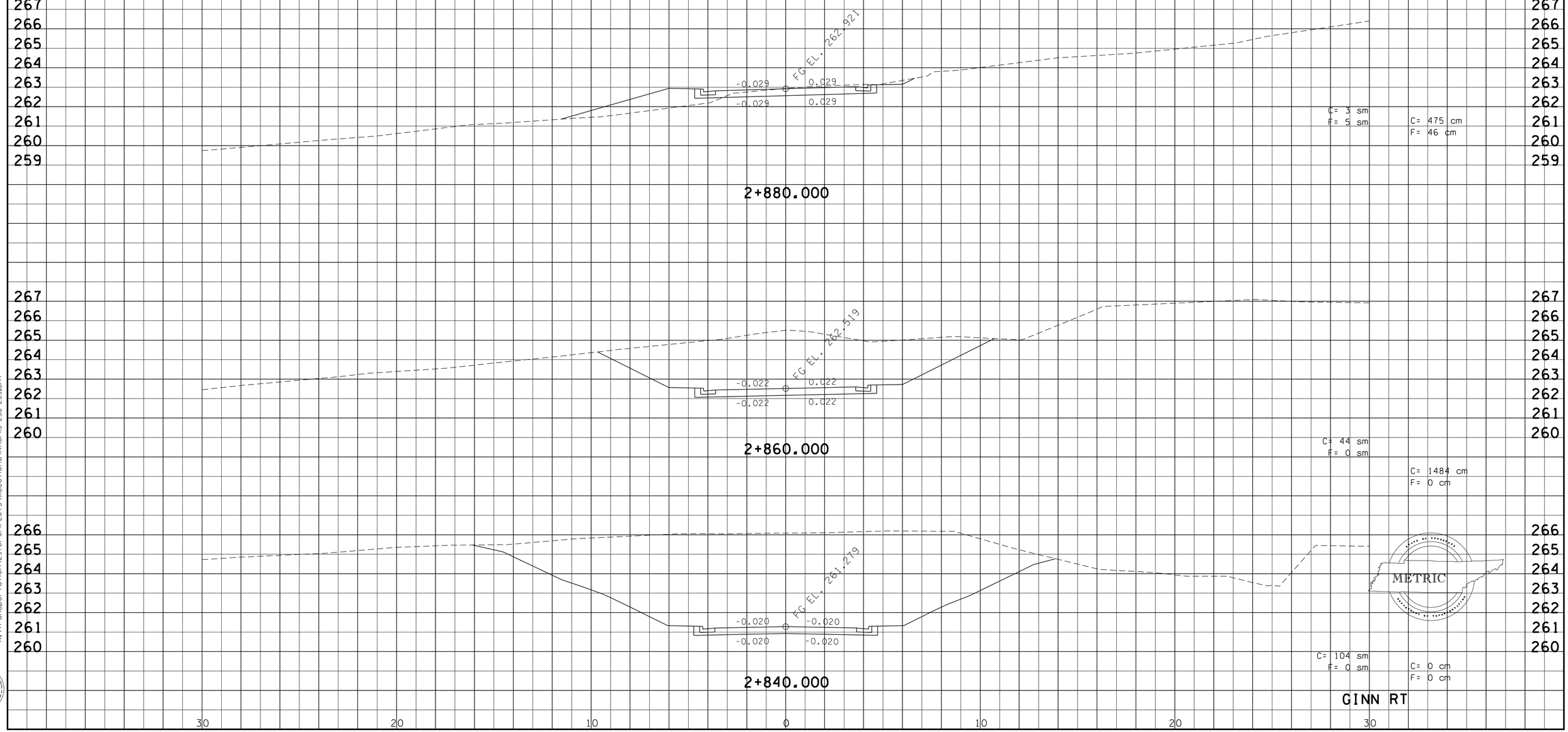
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	178
CONST.	2016	47026-3279-14	238

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR GINN ROAD RT.

FILE NO.



9/30/2015
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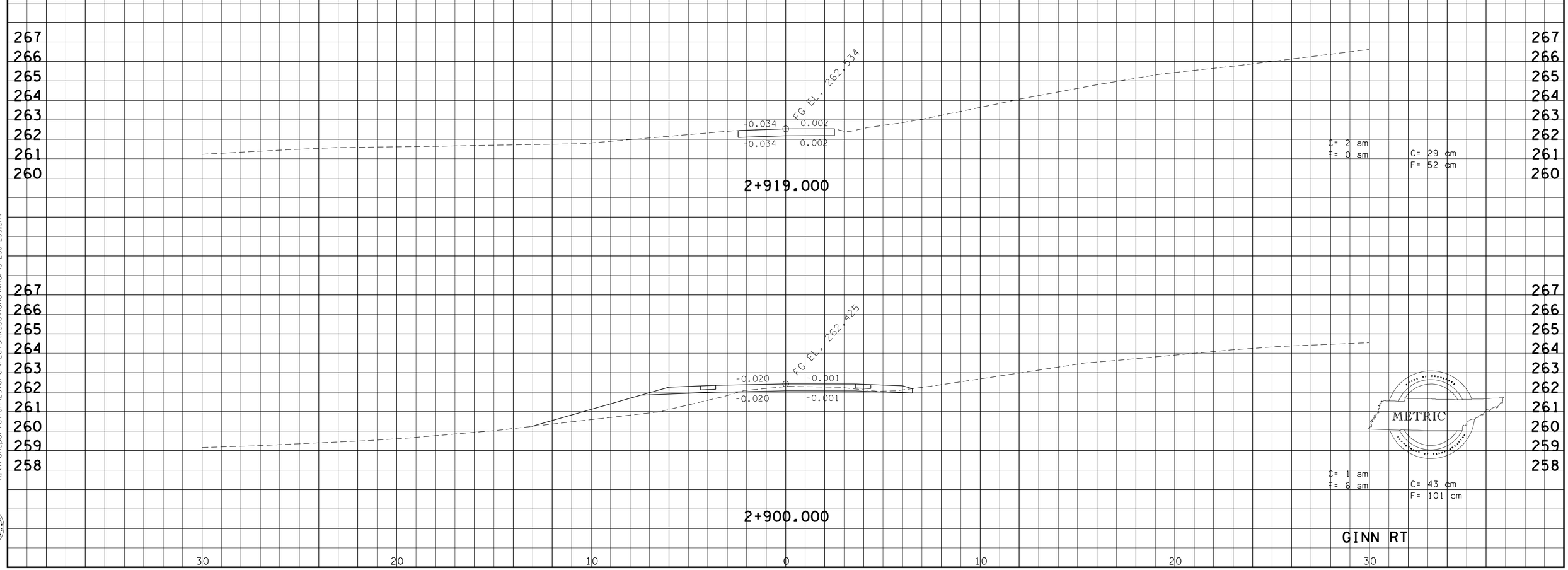
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	179
CONST.	2016	47026-3279-14	239

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR GINN ROAD RT.

FILE NO.

LIMITS OF CONST. GINN RD. RIGHT STA. 2+919.000



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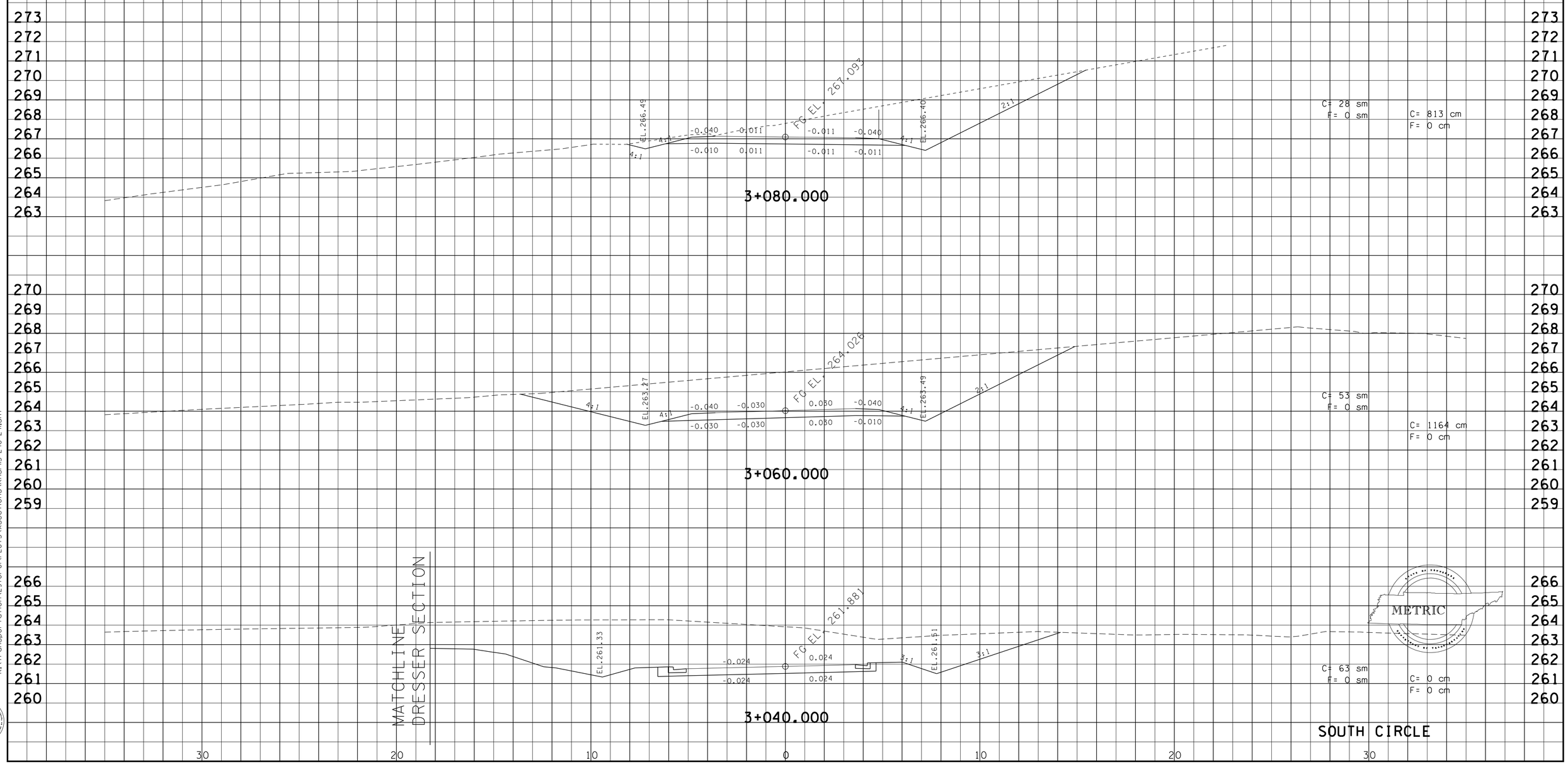
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	180
CONST.	2016	47026-3279-14	240

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR SOUTH CIRCLE.

FILE NO.



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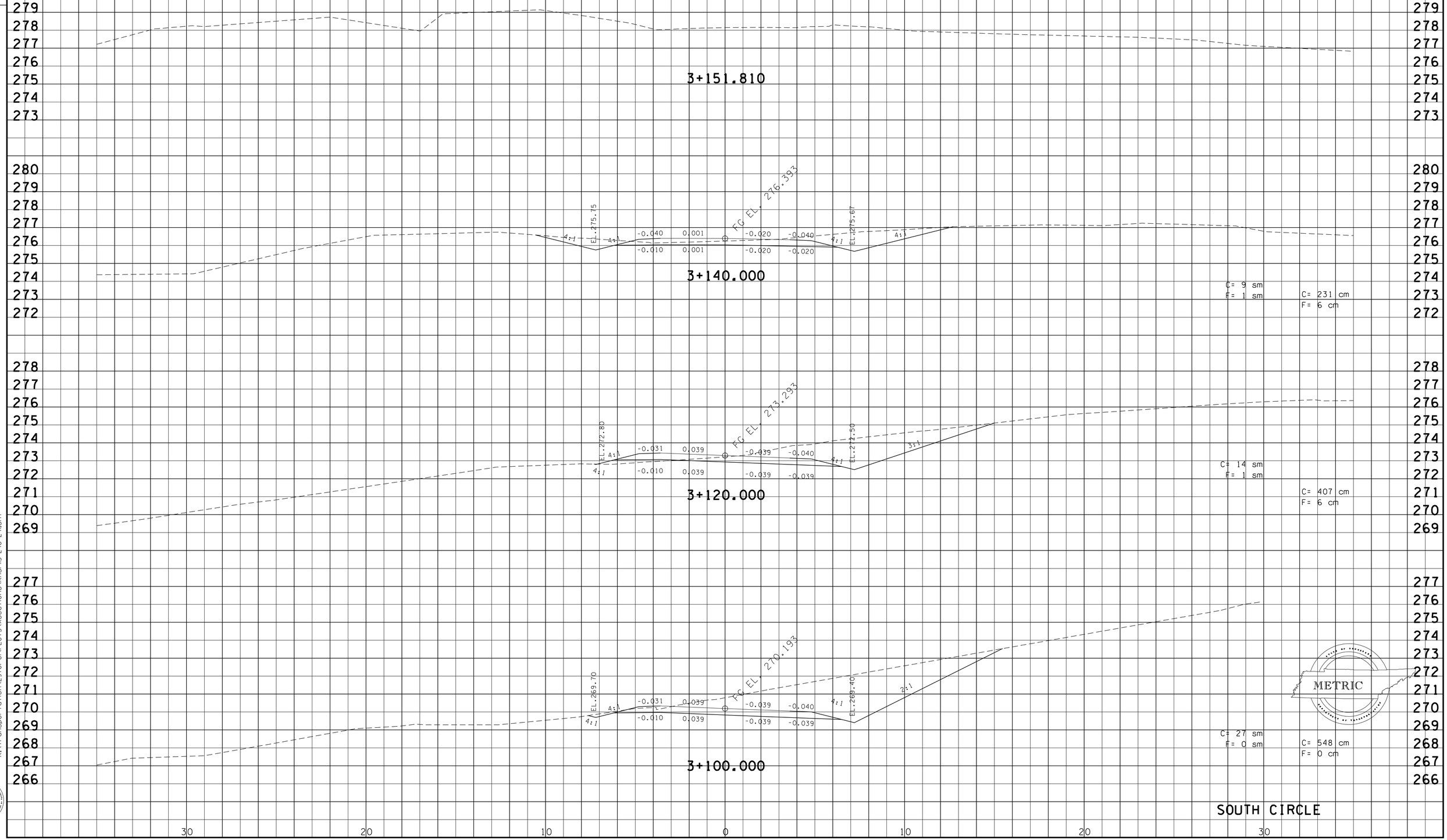
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	181
CONST.	2016	47026-3279-14	241

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR SOUTH CIRCLE.

FILE NO.



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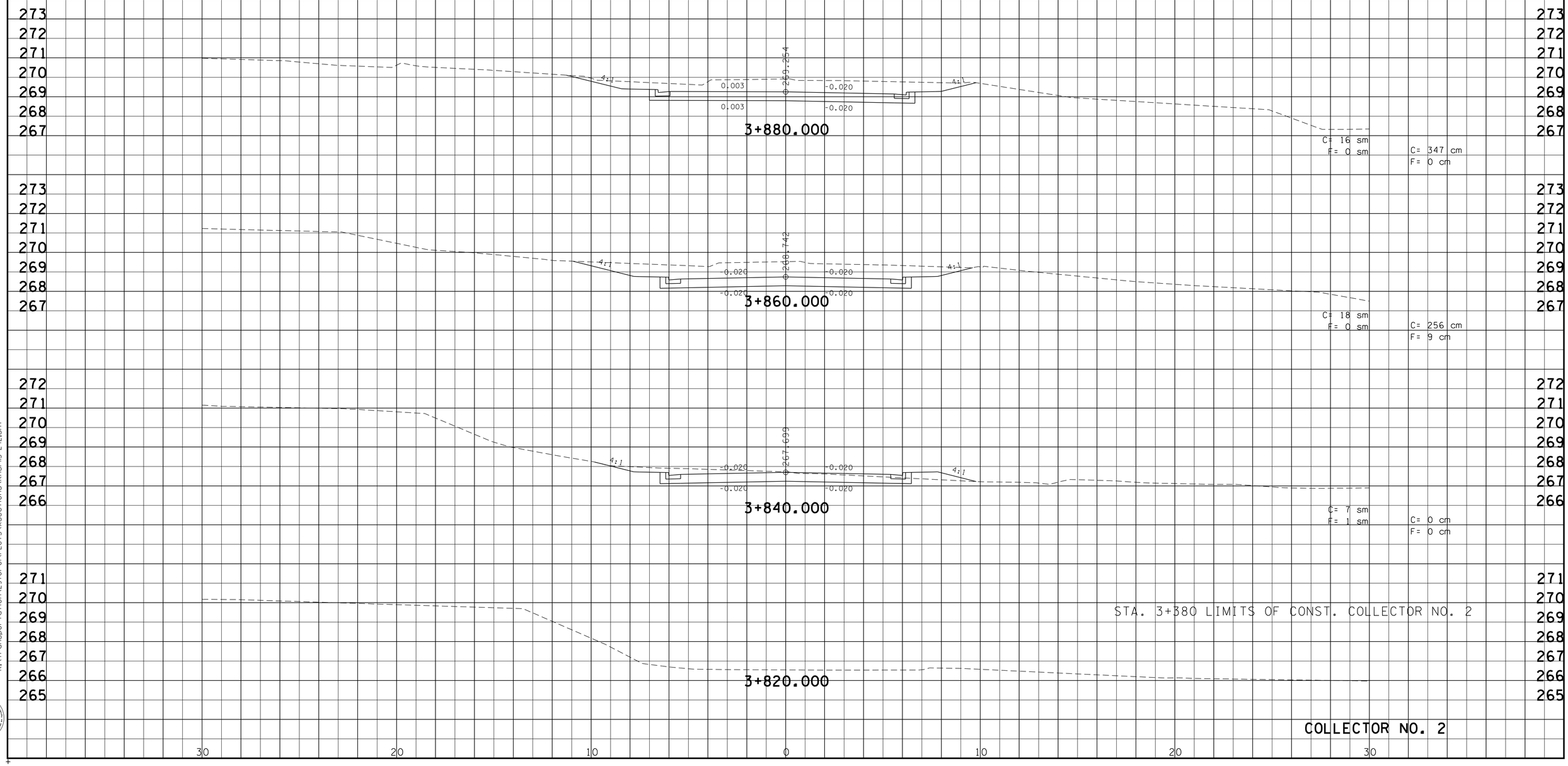
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	182
CONST.	2016	47026-3279-14	242

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS AND CHANGED SHEET NUMBERS

FILE NO.



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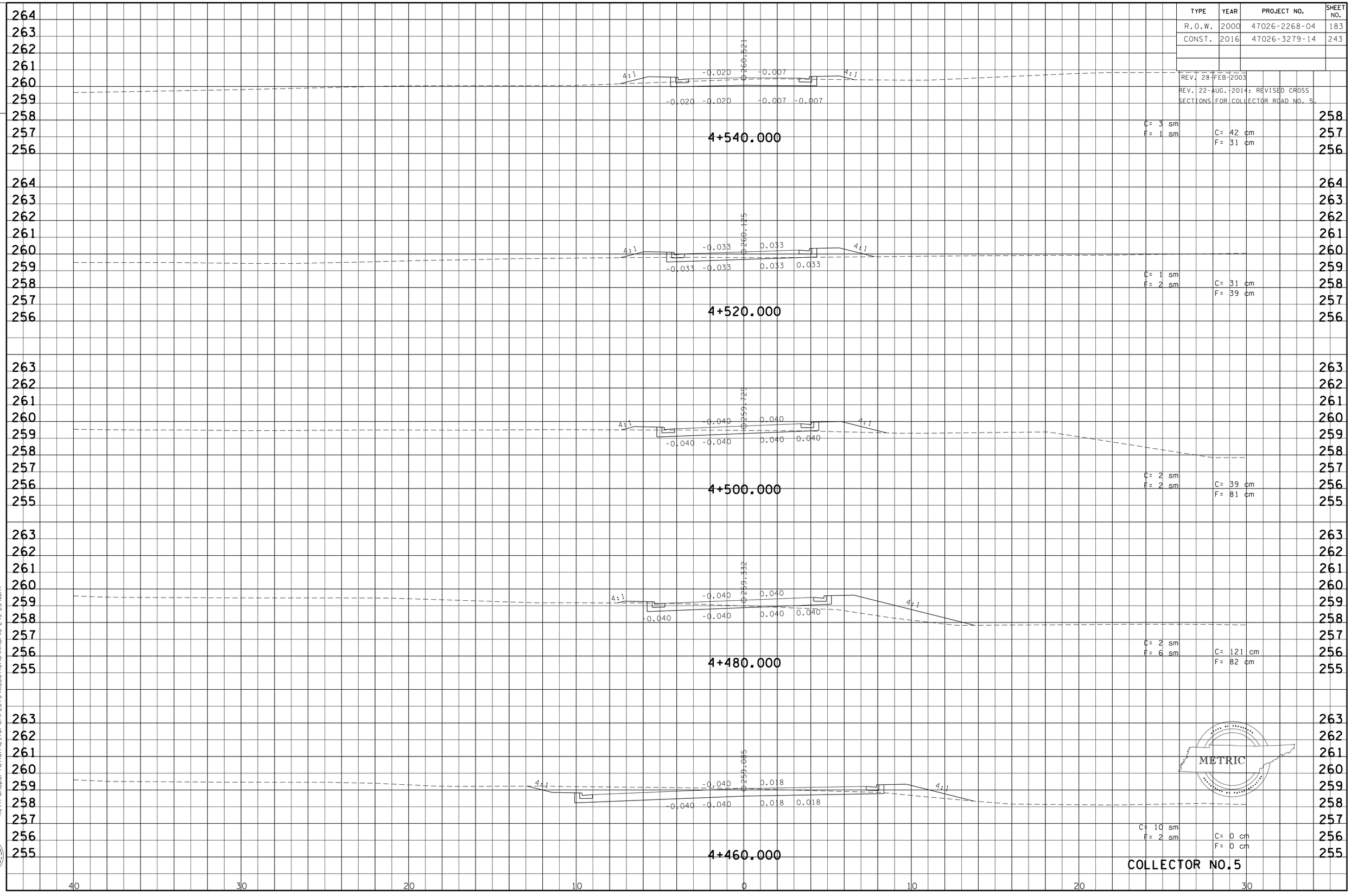
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	183
CONST.	2016	47026-3279-14	243

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.

FILE NO.



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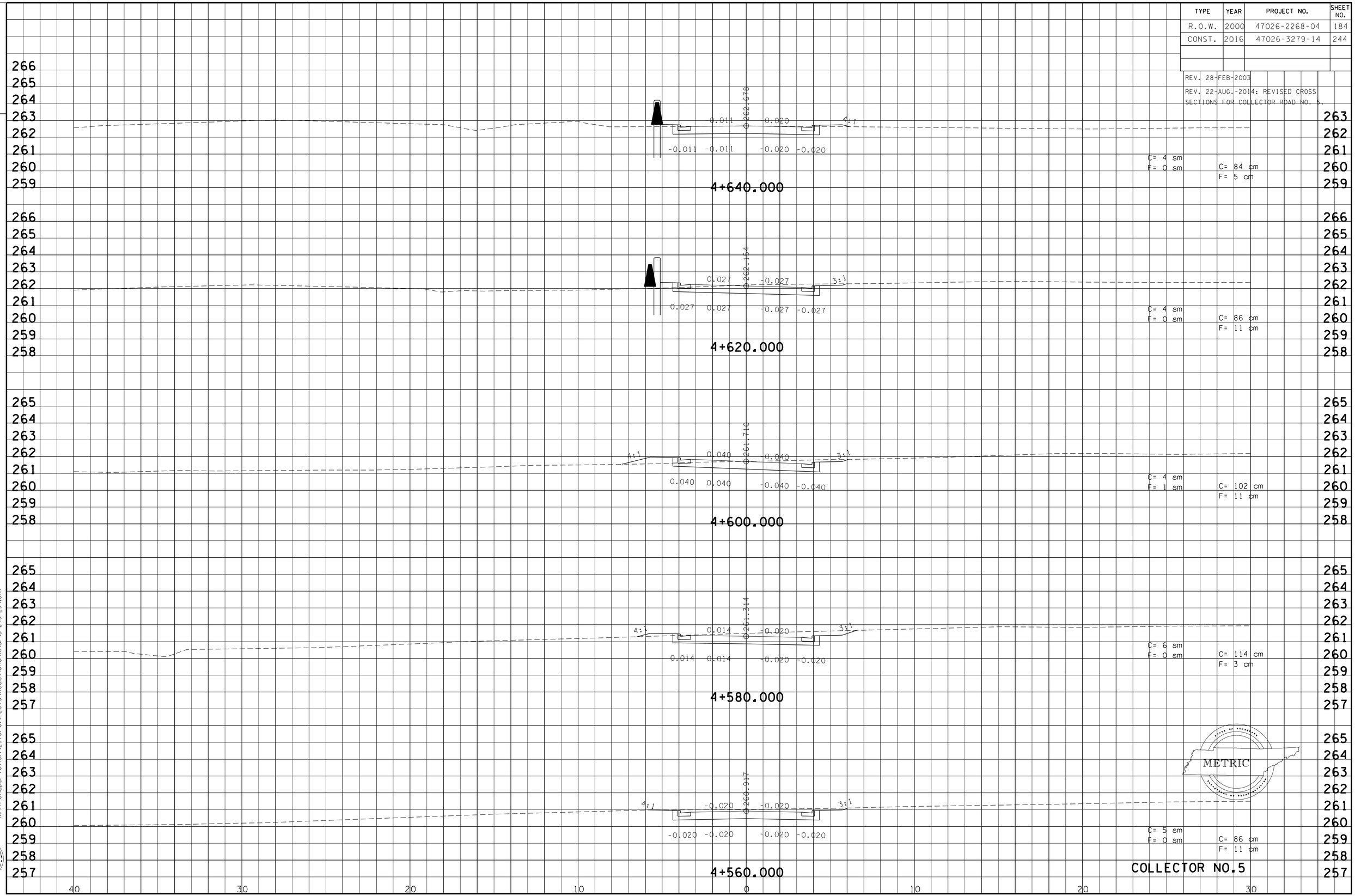
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	184
CONST.	2016	47026-3279-14	244

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.

FILE NO.



9/30/2015
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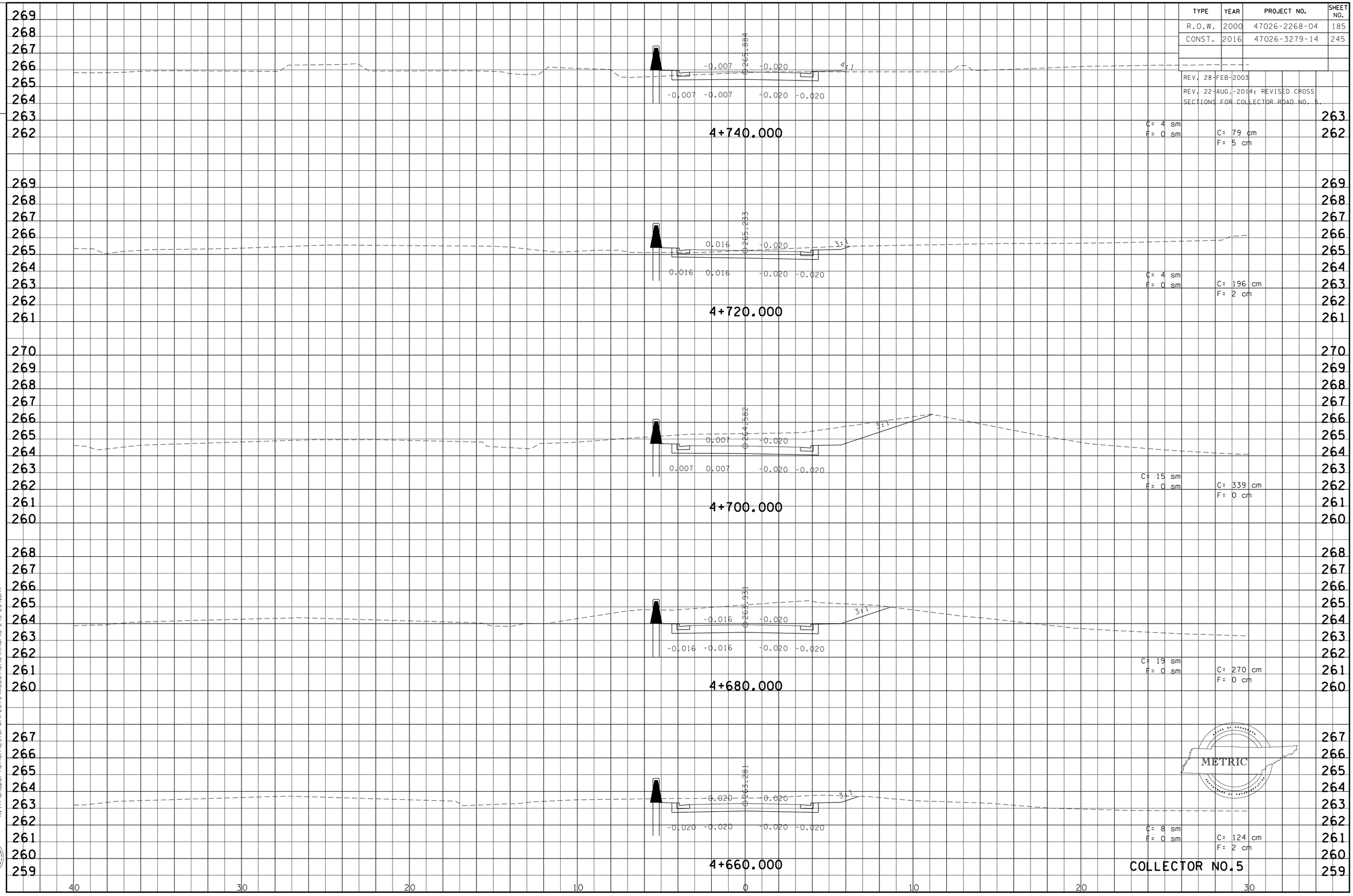
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	185
CONST.	2016	47026-3279-14	245

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.

FILE NO.



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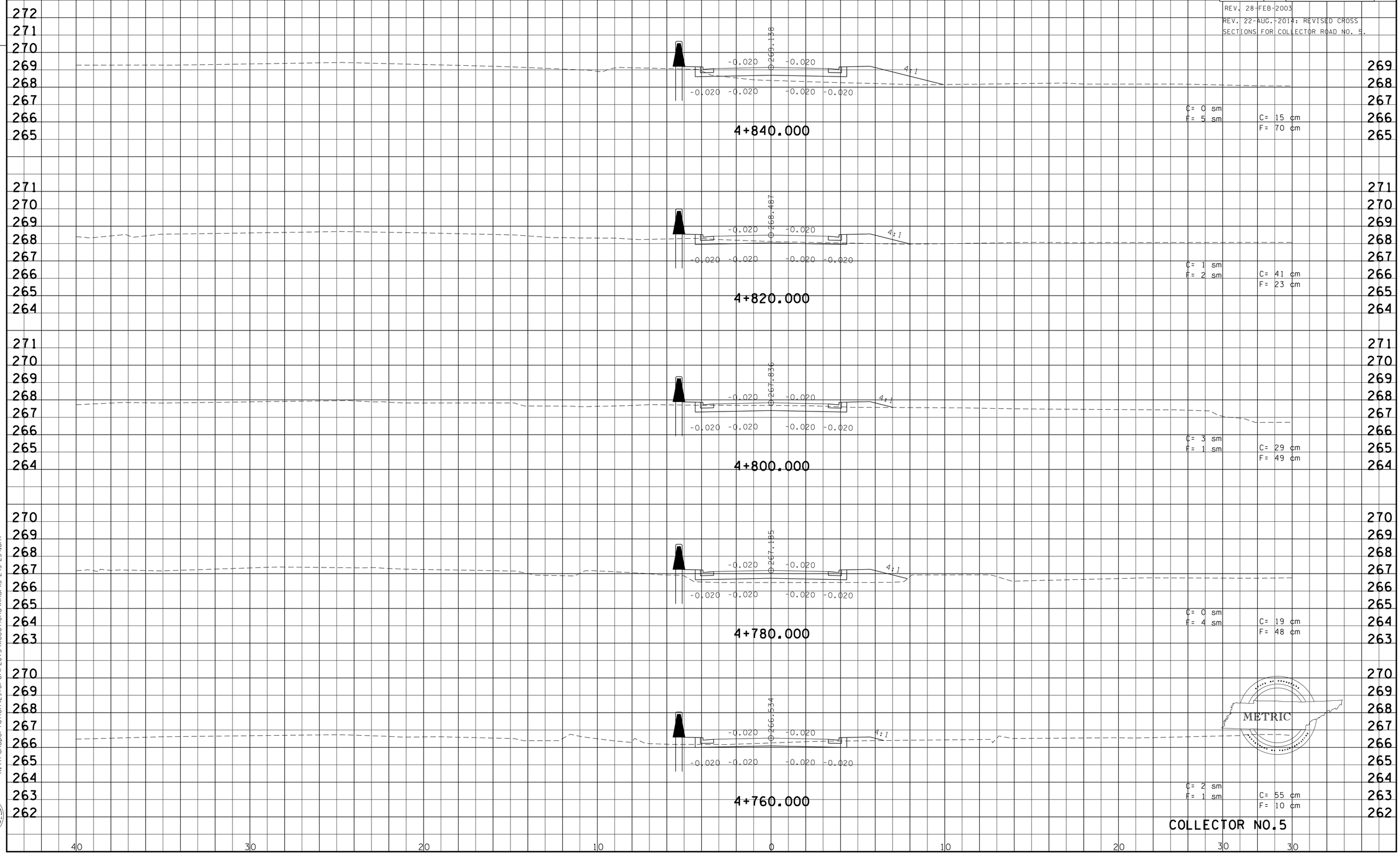
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	186
CONST.	2016	47026-3279-14	246

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.

FILE NO.



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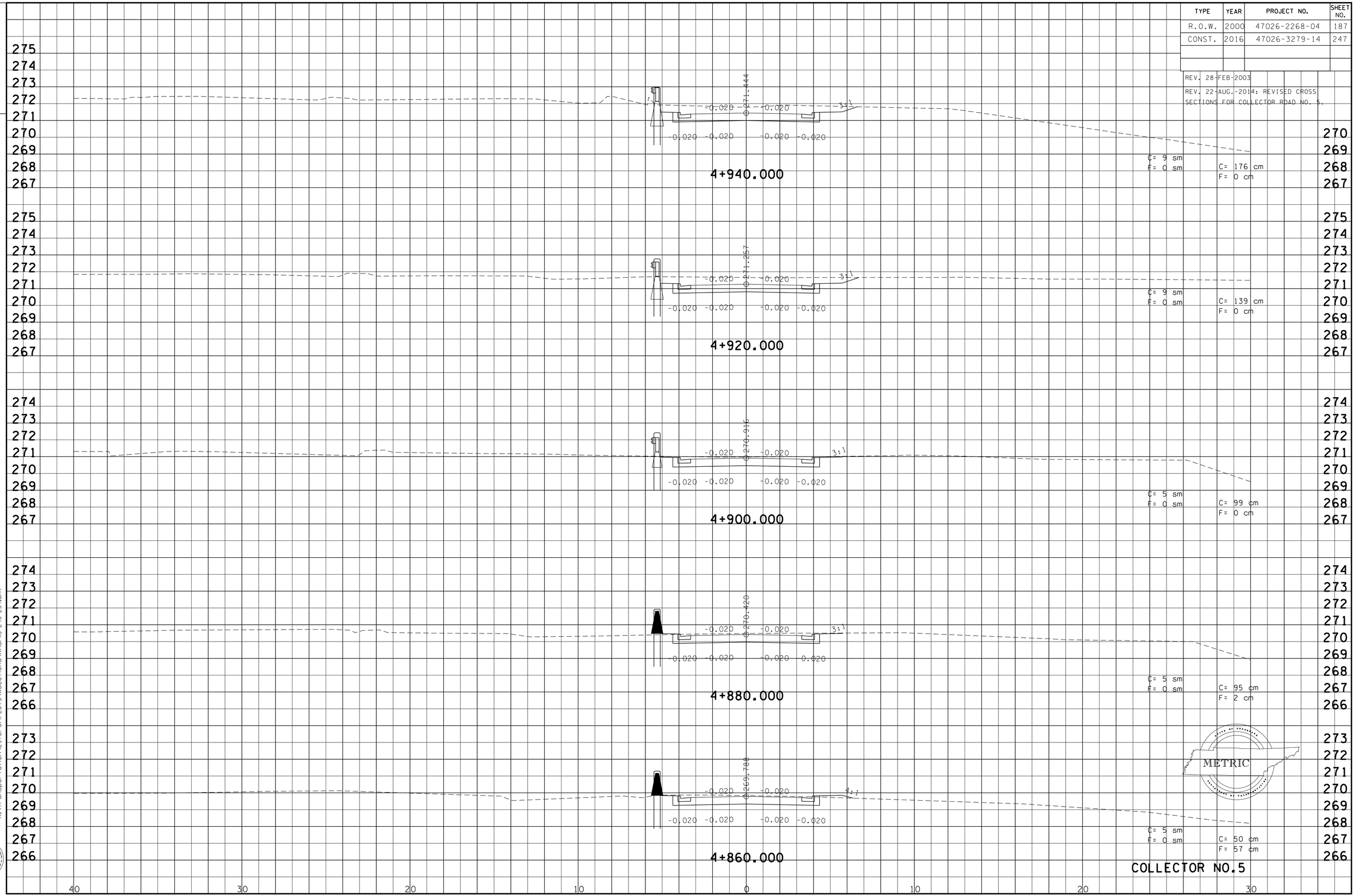
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	187
CONST.	2016	47026-3279-14	247

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.

FILE NO.



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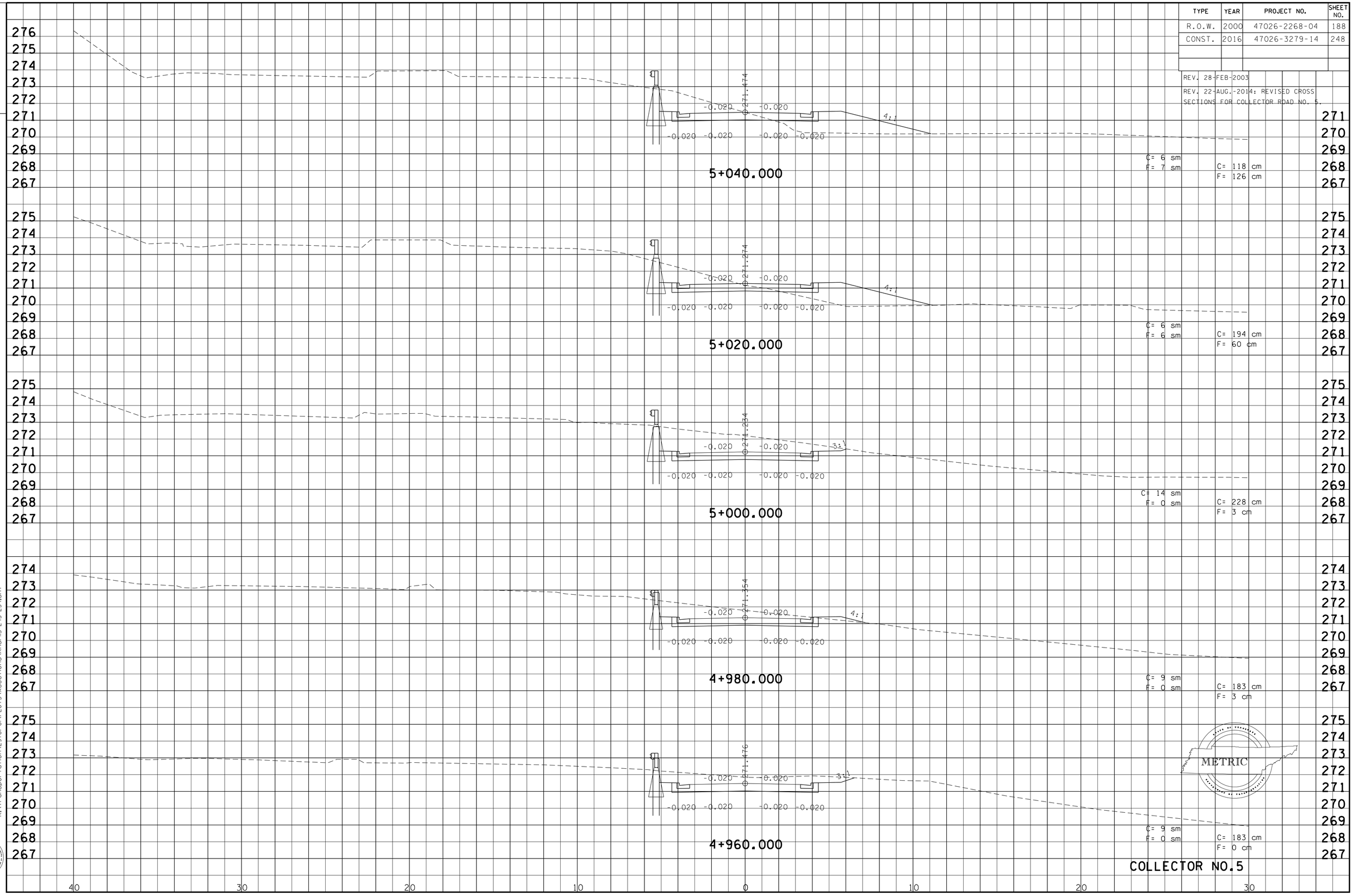
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	188
CONST.	2016	47026-3279-14	248

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.

FILE NO.



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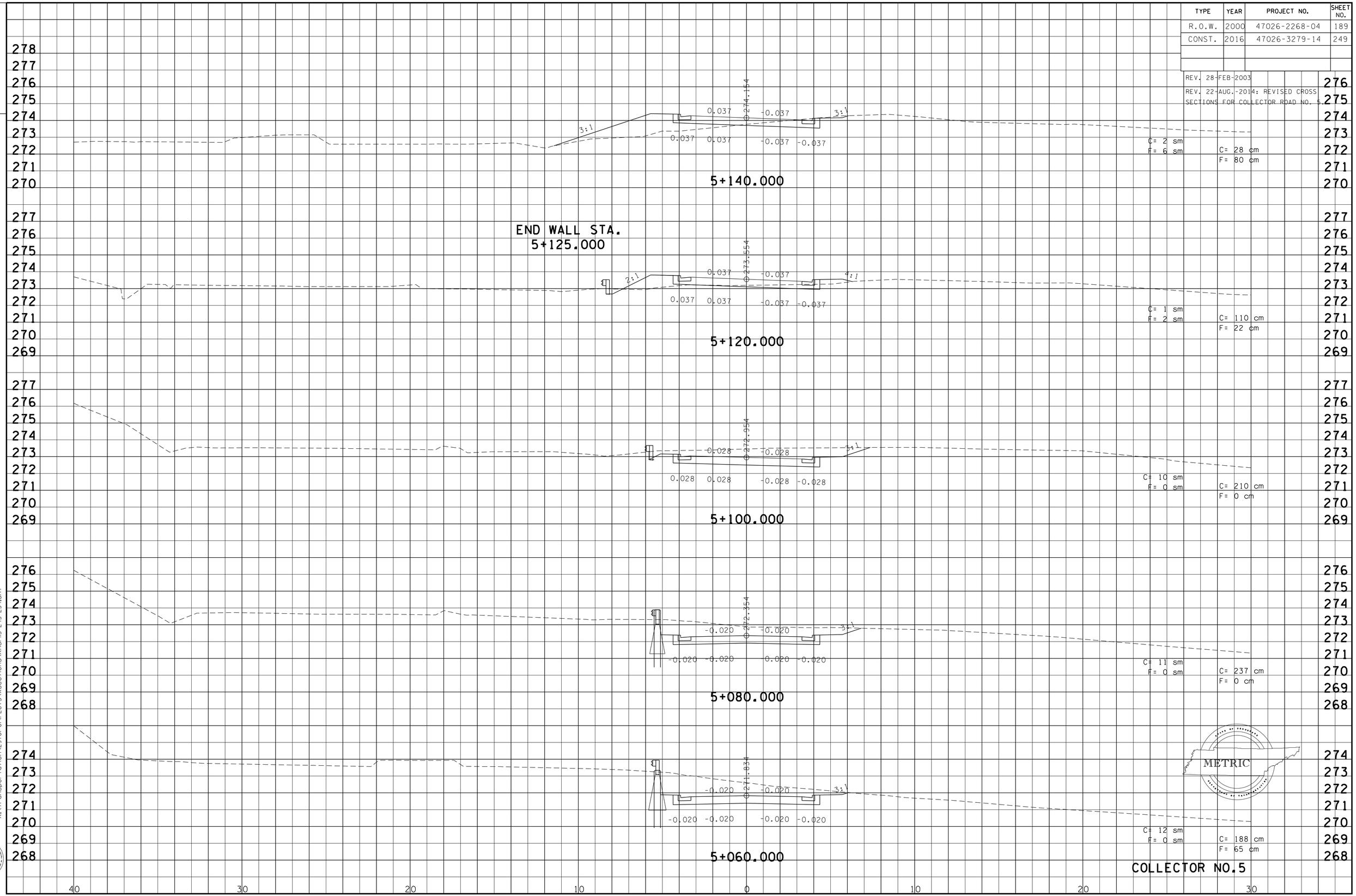
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	189
CONST.	2016	47026-3279-14	249

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5

FILE NO.



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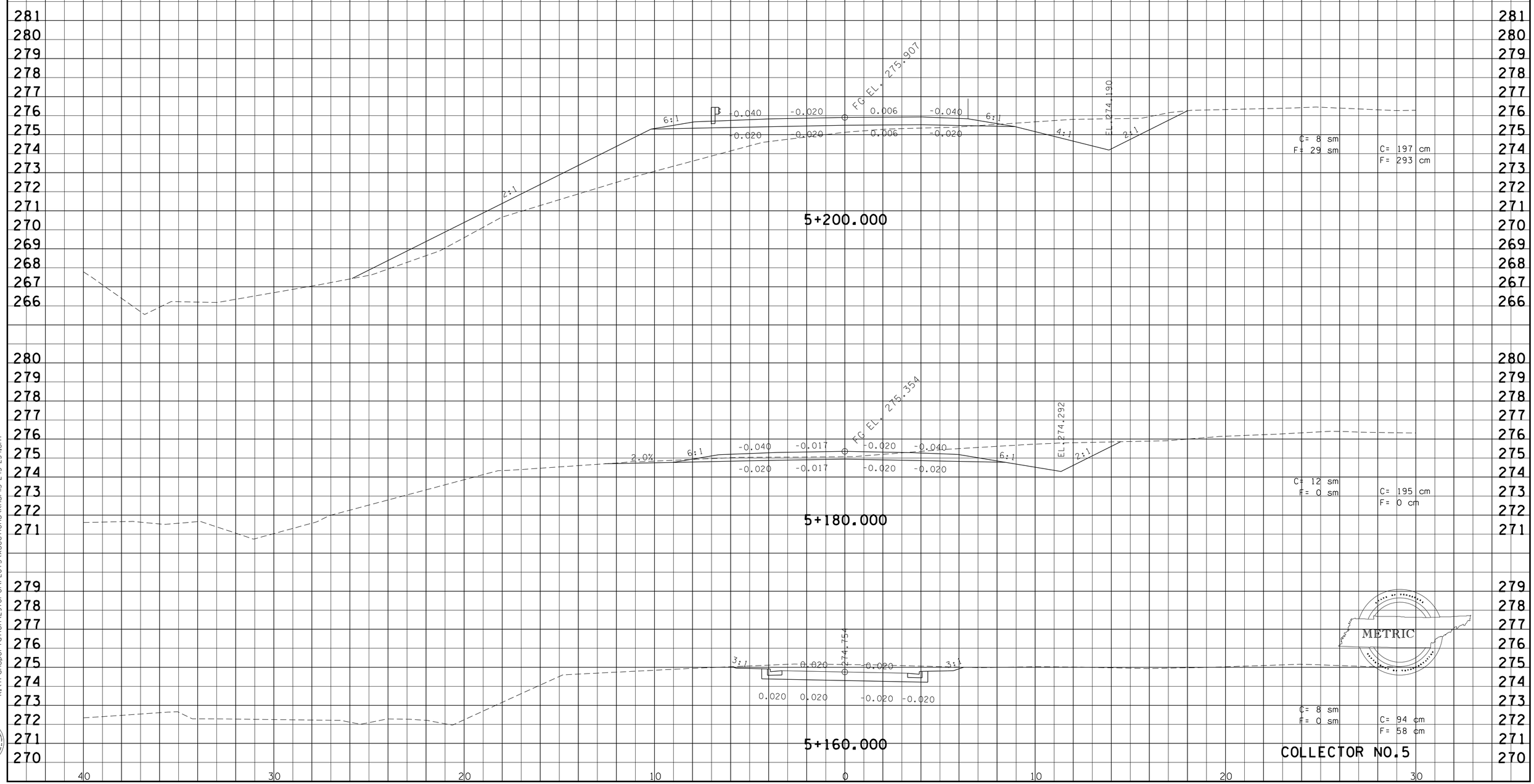
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	190
CONST.	2016	47026-3279-14	250

REV. 28-FEB-2003
REV. 15-MAR-2004 REVISED DITCH GRADE STA. 5+200 & 5+220.
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



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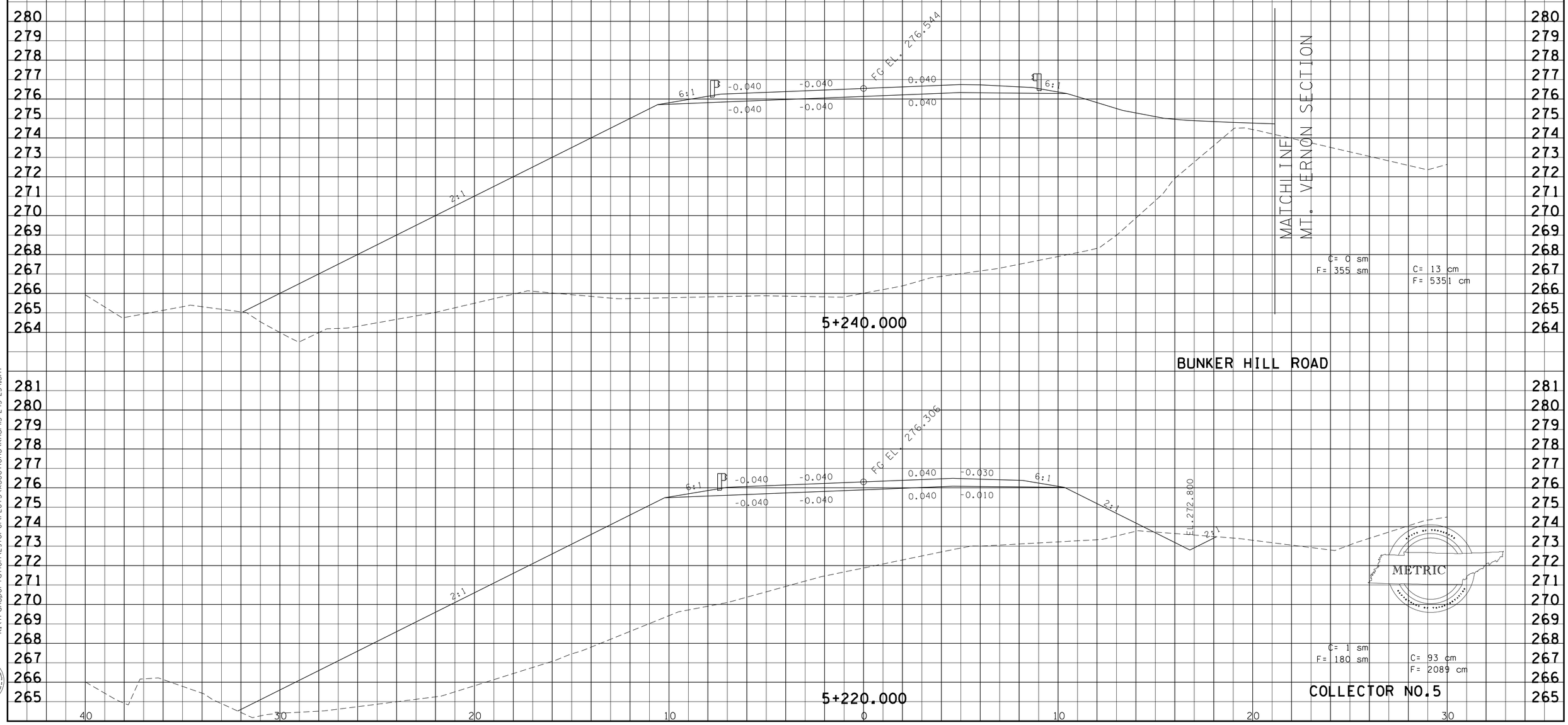
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	191
CONST.	2016	47026-3279-14	251

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



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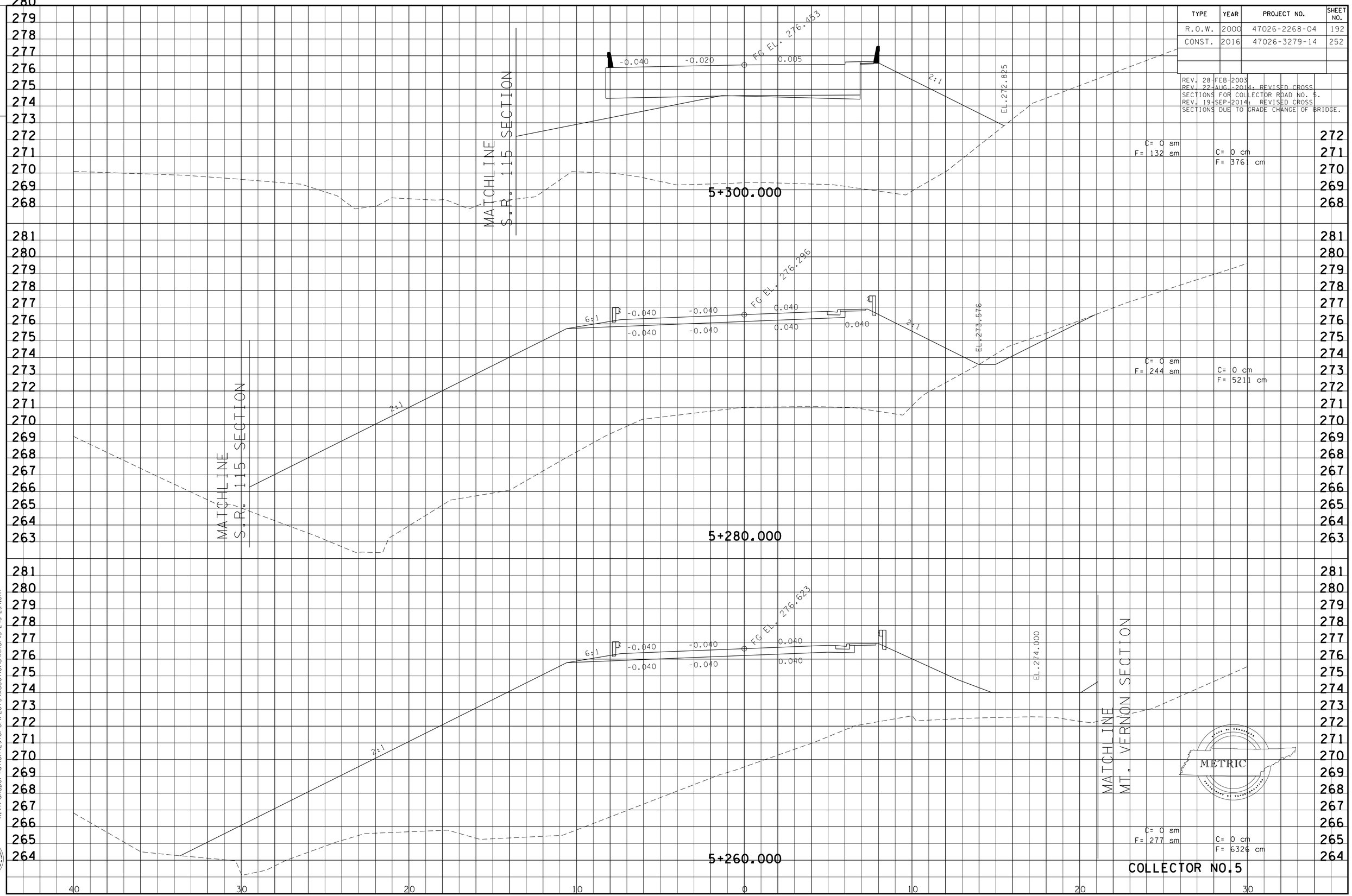
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	192
CONST.	2016	47026-3279-14	252

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



9/30/2015
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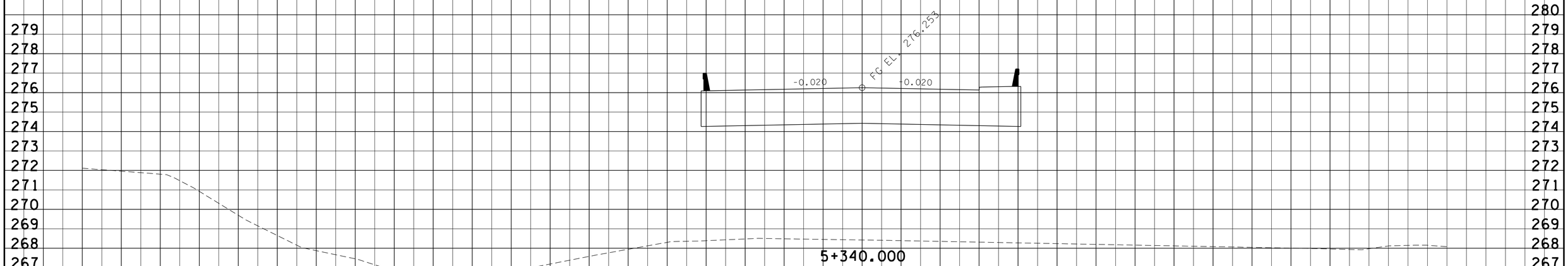
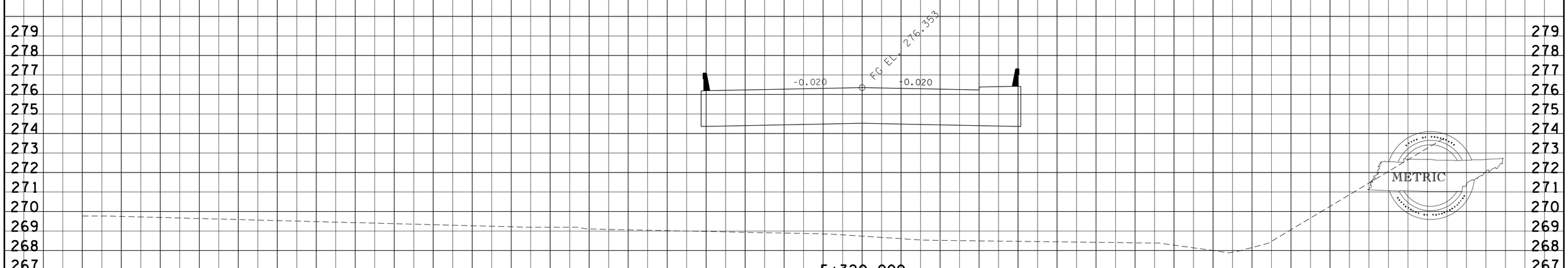
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	193
CONST.	2016	47026-3279-14	253

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.





METRIC

COLLECTOR NO.5

40 30 20 10 0 10 20 30

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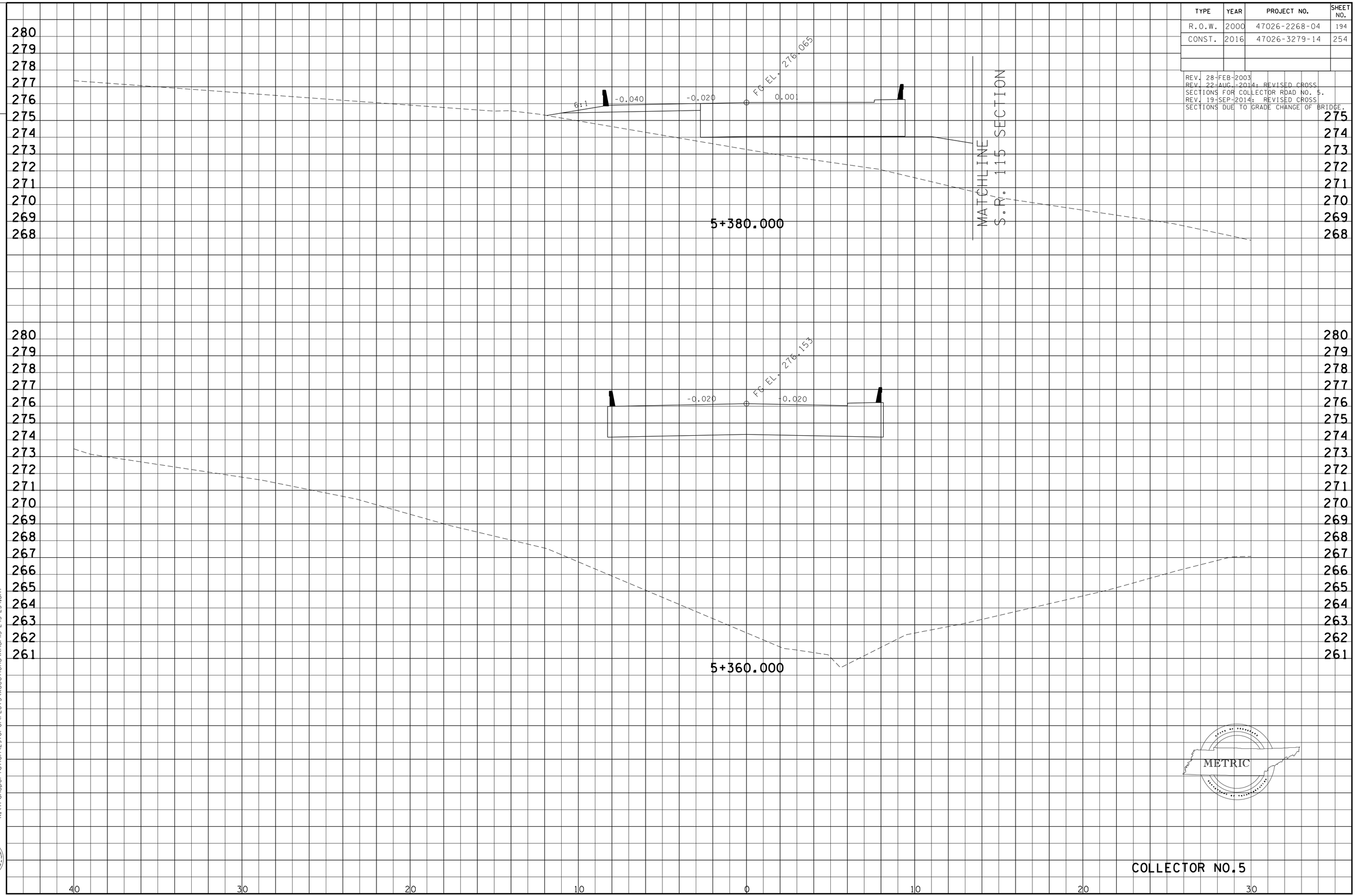
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	194
CONST.	2016	47026-3279-14	254

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR ROAD NO. 5.
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



COLLECTOR NO.5

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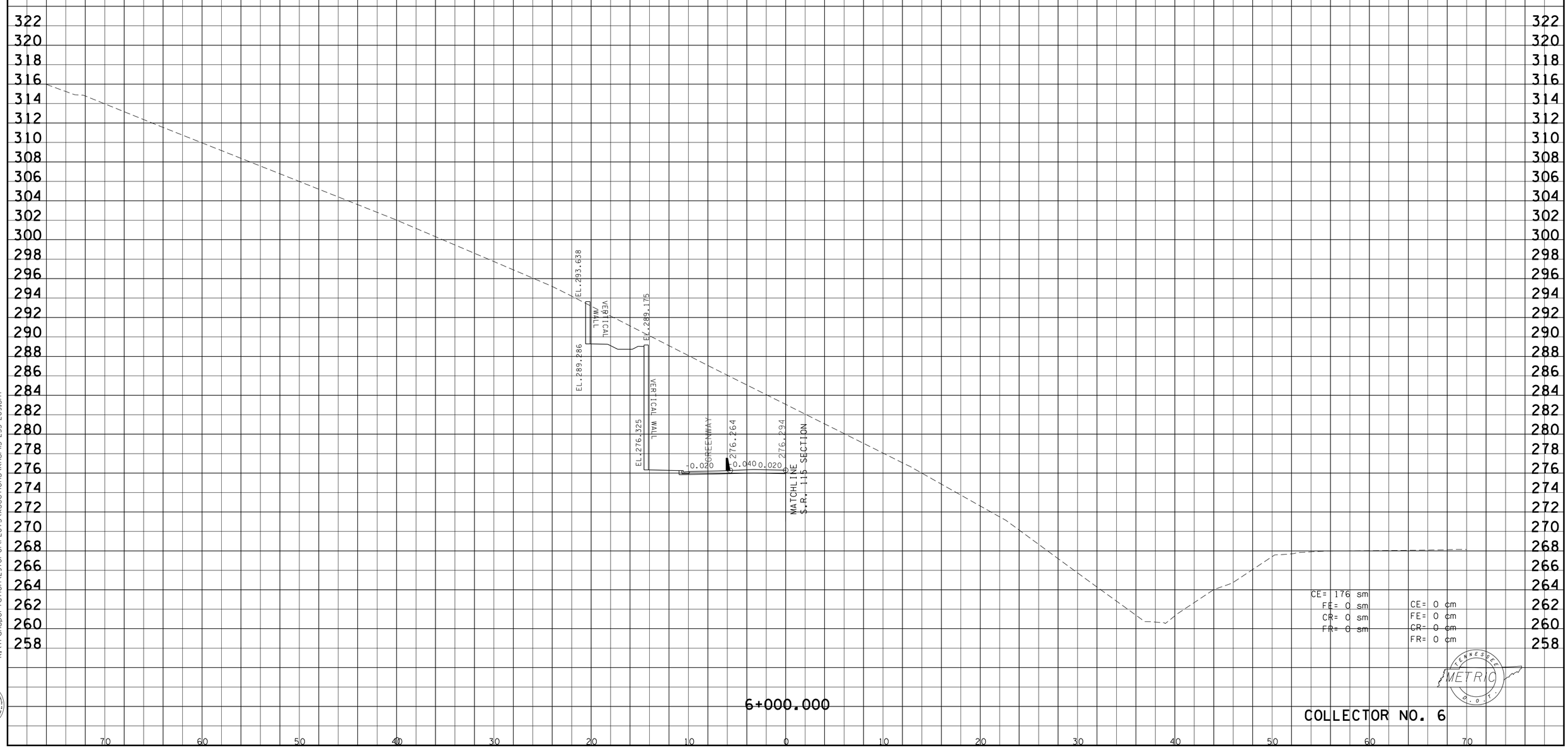
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	195
CONST.	2016	47026-3279-14	255

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.



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Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	196
CONST.	2016	47026-3279-14	256

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.

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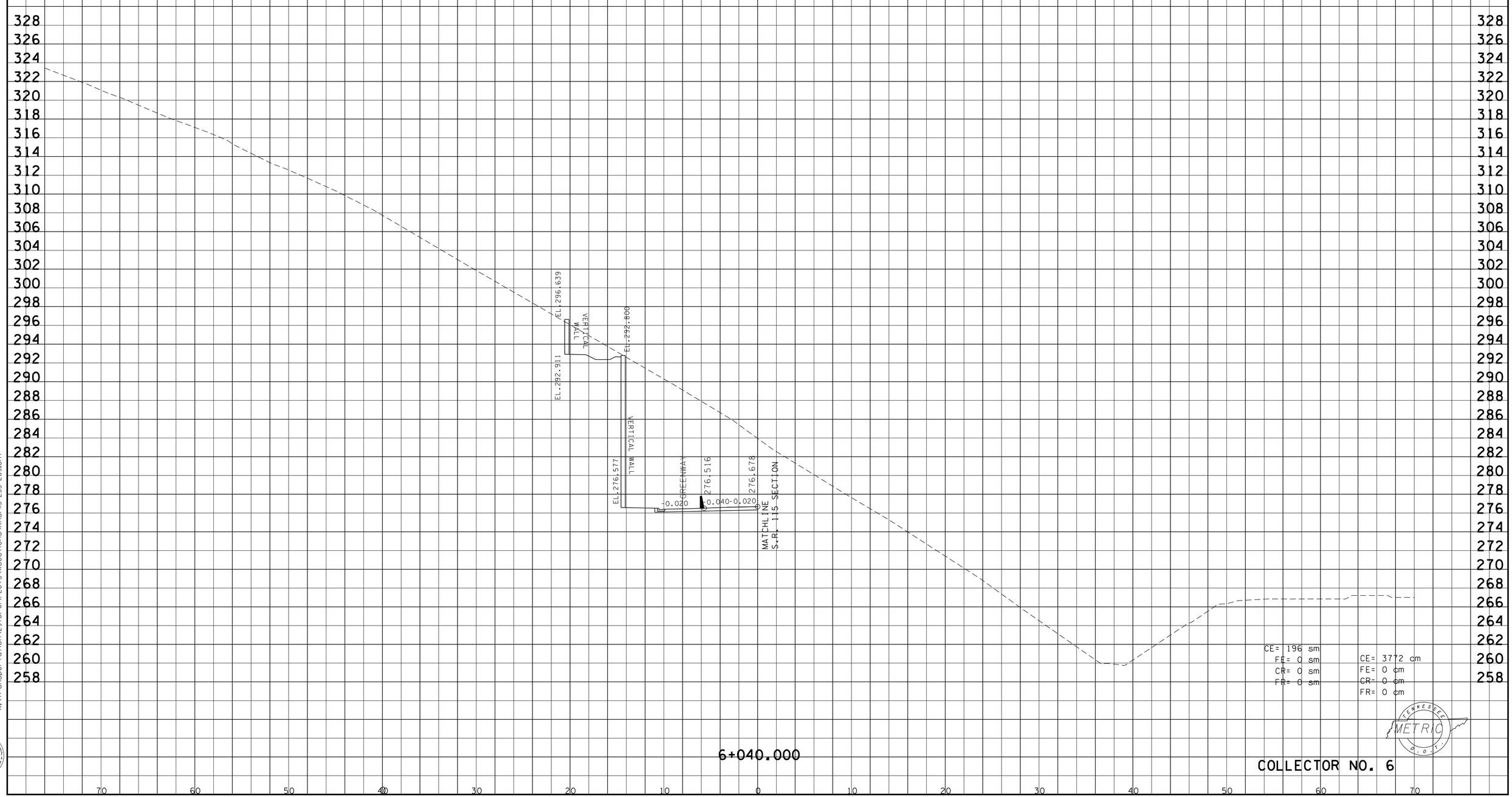
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	197
CONST.	2016	47026-3279-14	257

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.



COLLECTOR NO. 6

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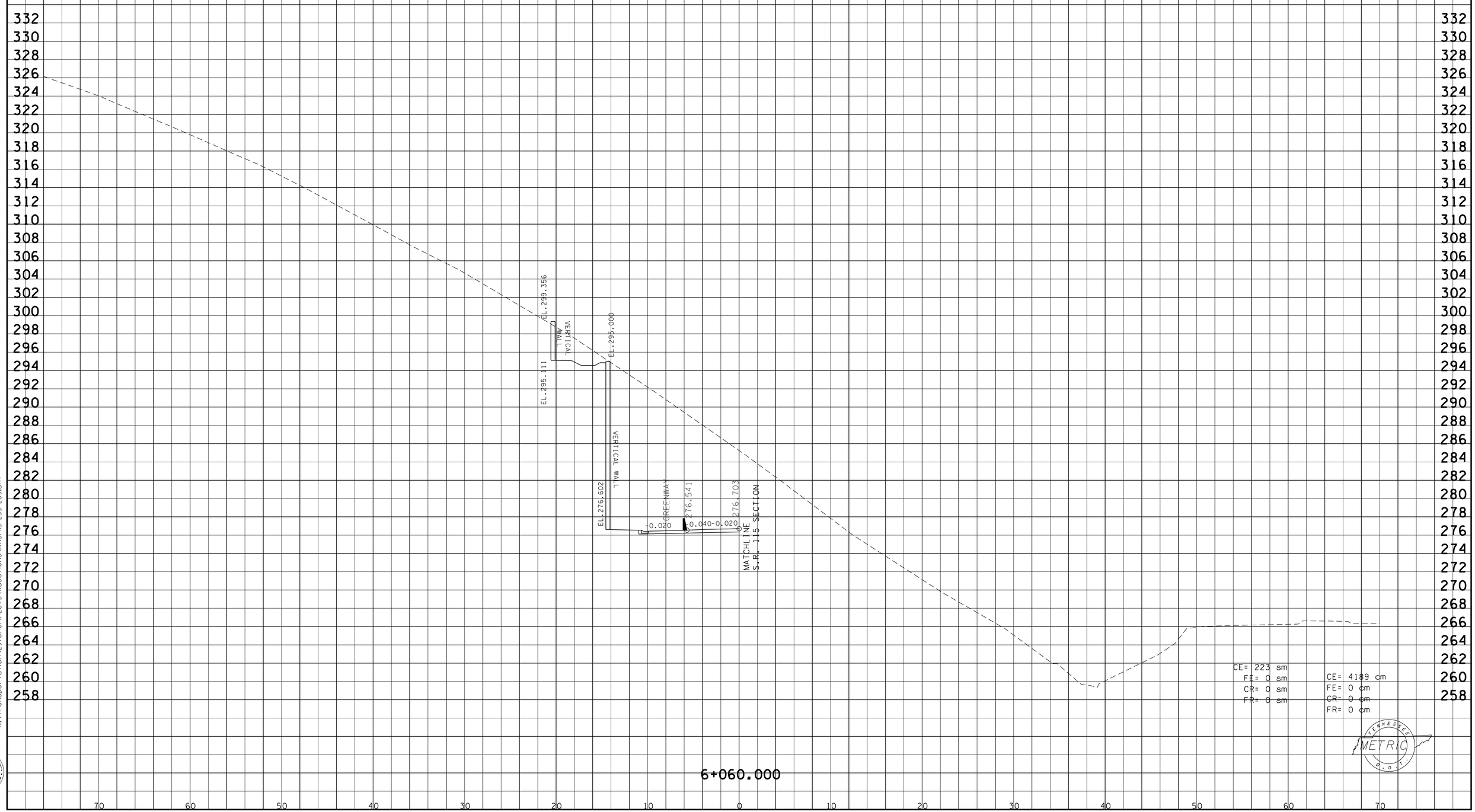
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	198
CONST.	2016	47026-3279-14	258

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.



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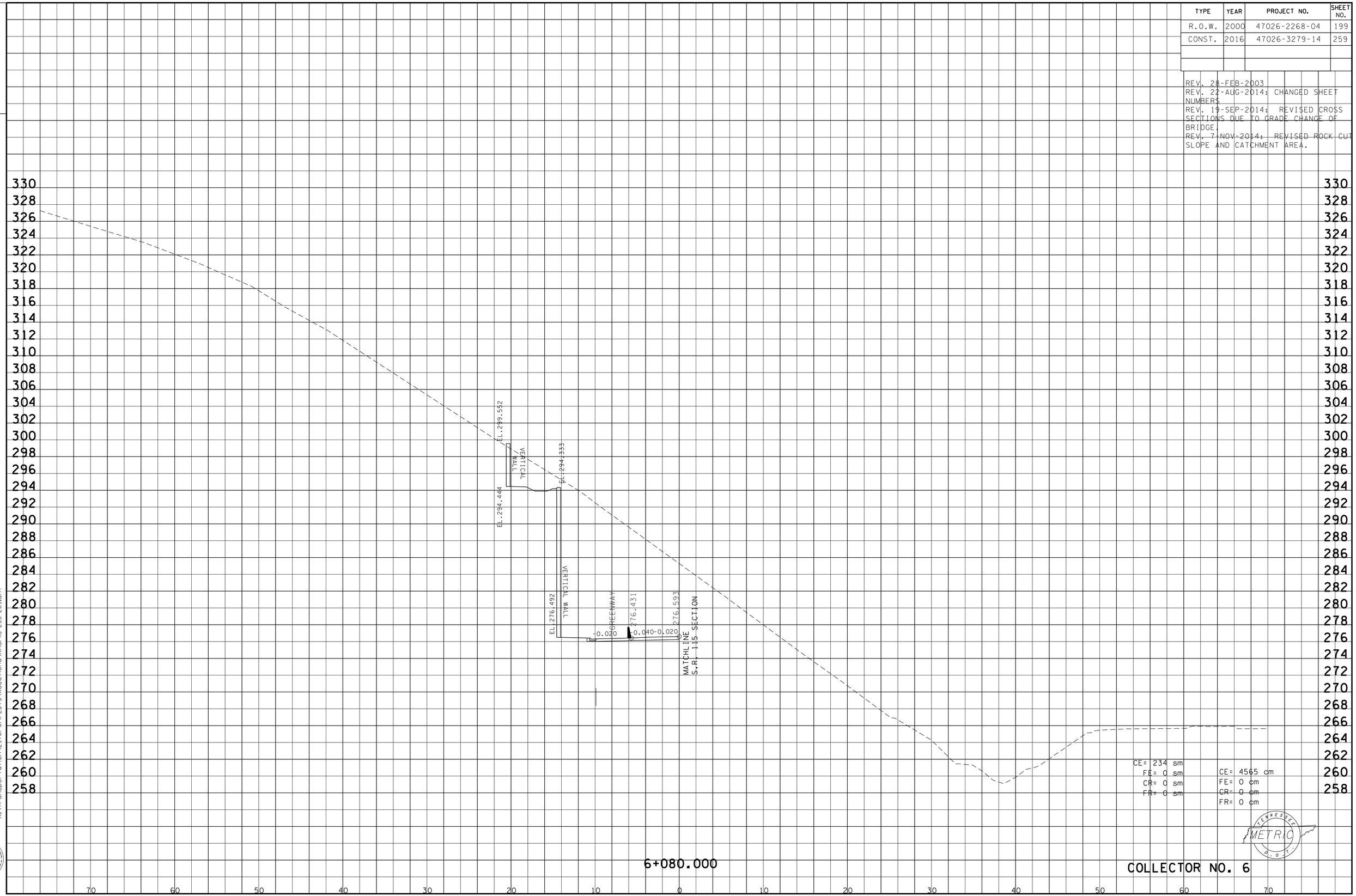
Survey & Design Division

TENNESSEE METRIC D.O.T.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	199
CONST.	2016	47026-3279-14	259

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.



COLLECTOR NO. 6

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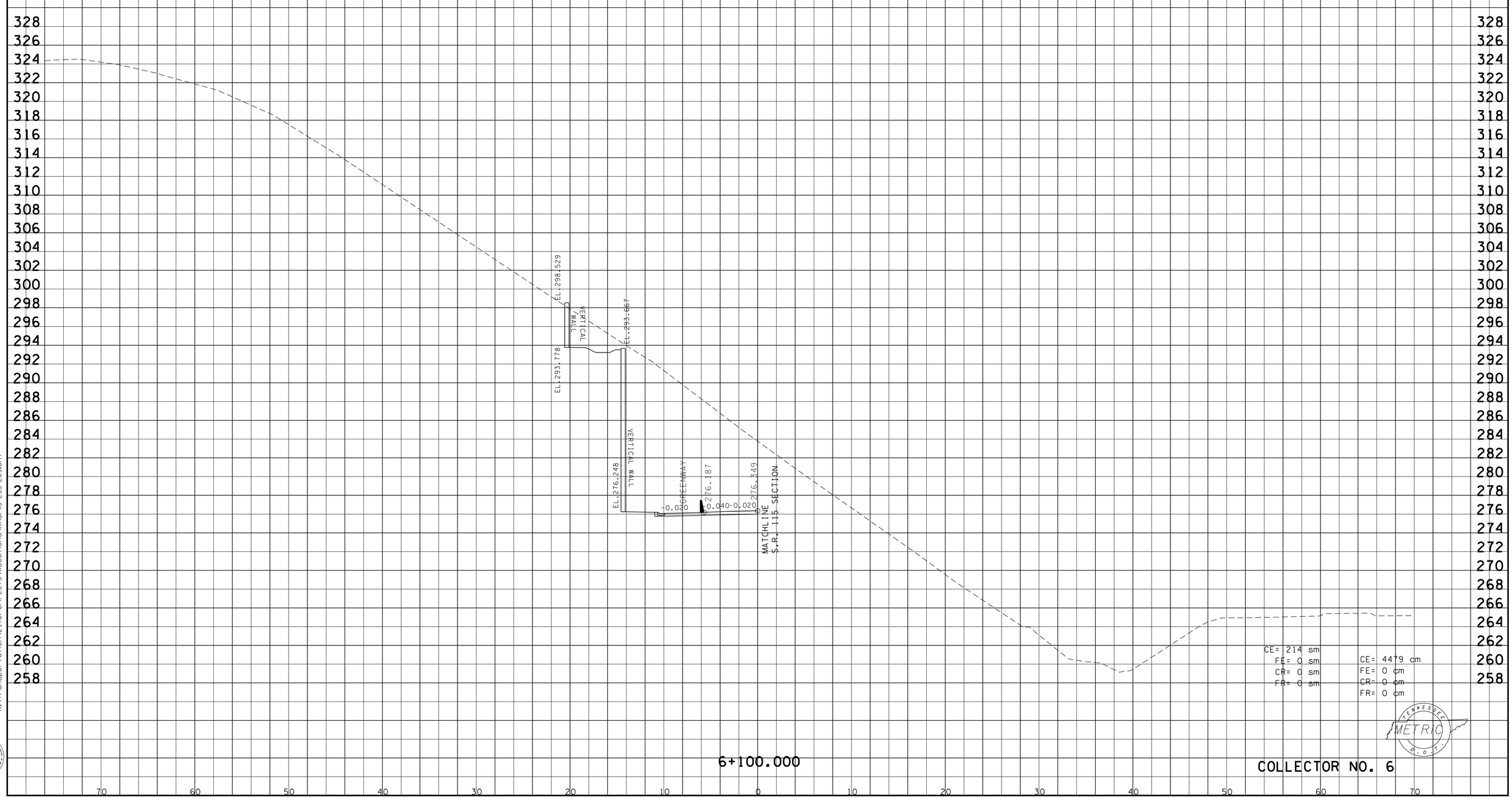
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	200
CONST.	2016	47026-3279-14	260

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.



COLLECTOR NO. 6

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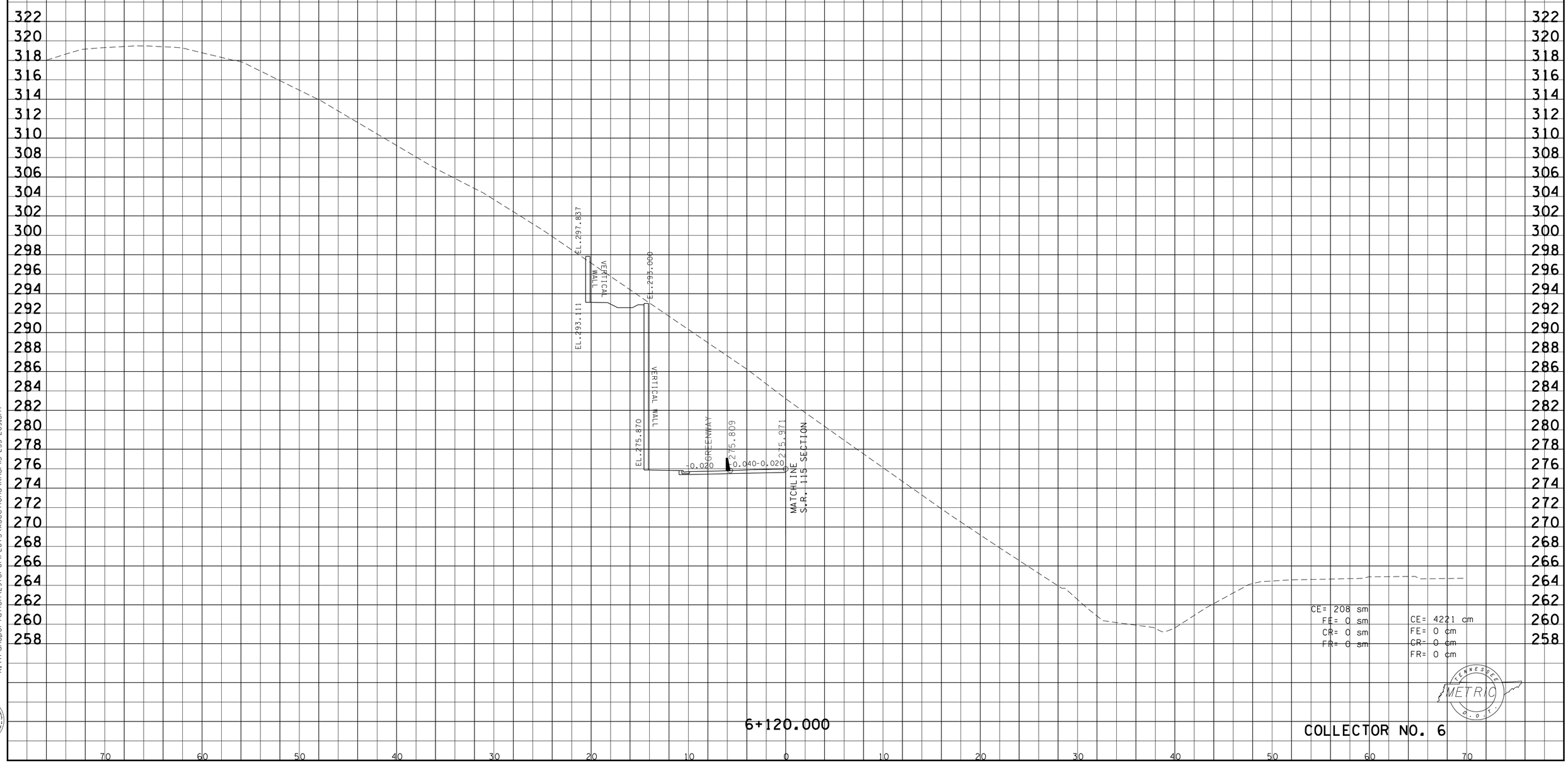
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	201
CONST.	2016	47026-3279-14	261

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.



COLLECTOR NO. 6

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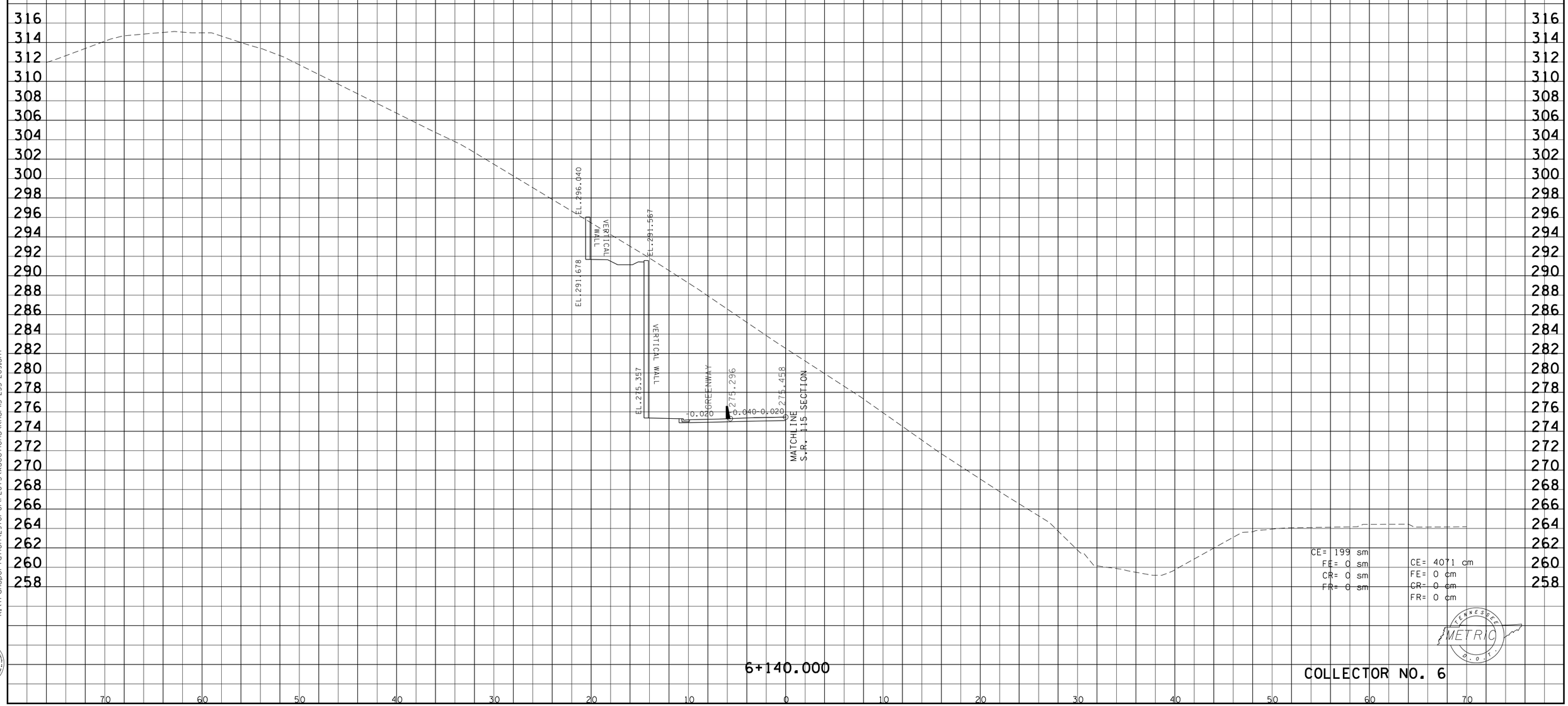
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	202
CONST.	2016	47026-3279-14	262

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.



COLLECTOR NO. 6

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Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	203
CONST.	2016	47026-3279-14	263

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.

COLLECTOR NO. 6

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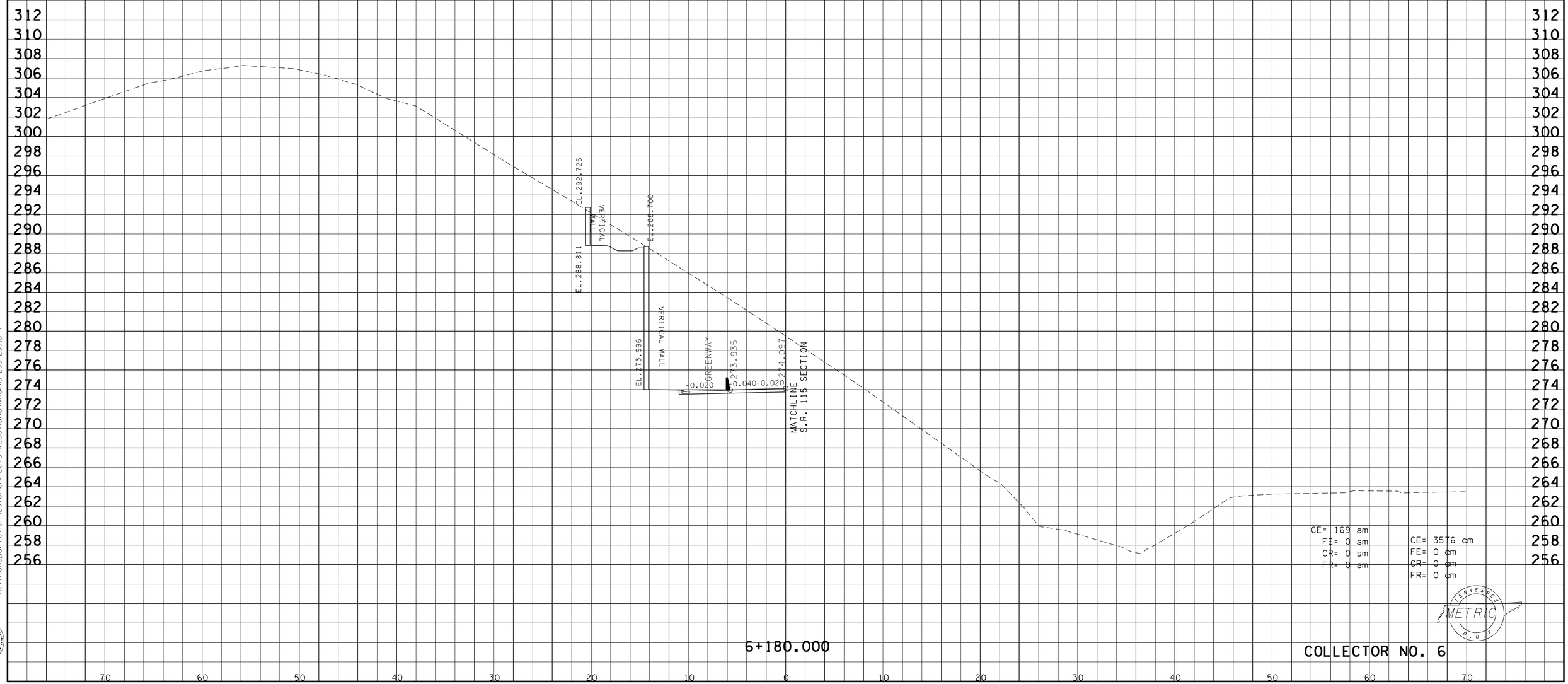
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	204
CONST.	2016	47026-3279-14	264

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.



COLLECTOR NO. 6

TENNESSEE METRIC D.O.T.

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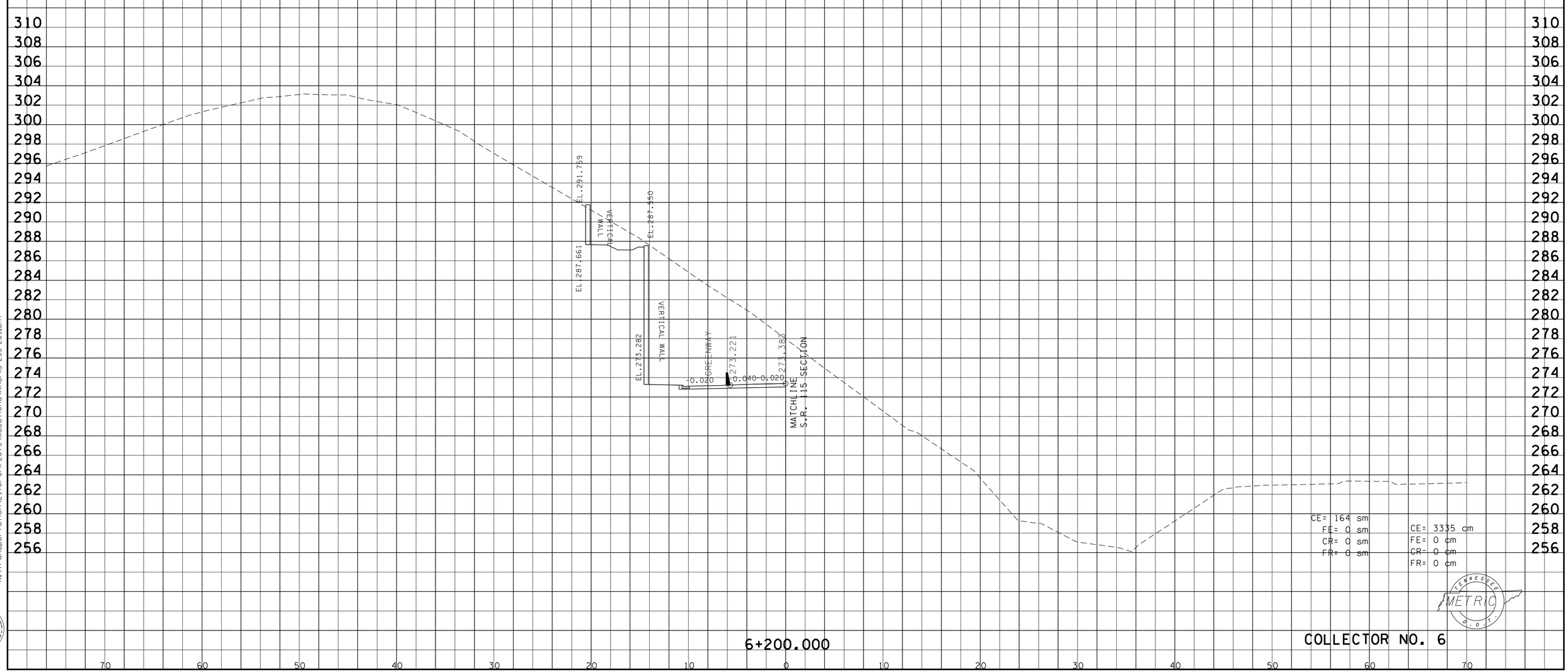
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	205
CONST.	2016	47026-3279-14	265

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.



COLLECTOR NO. 6

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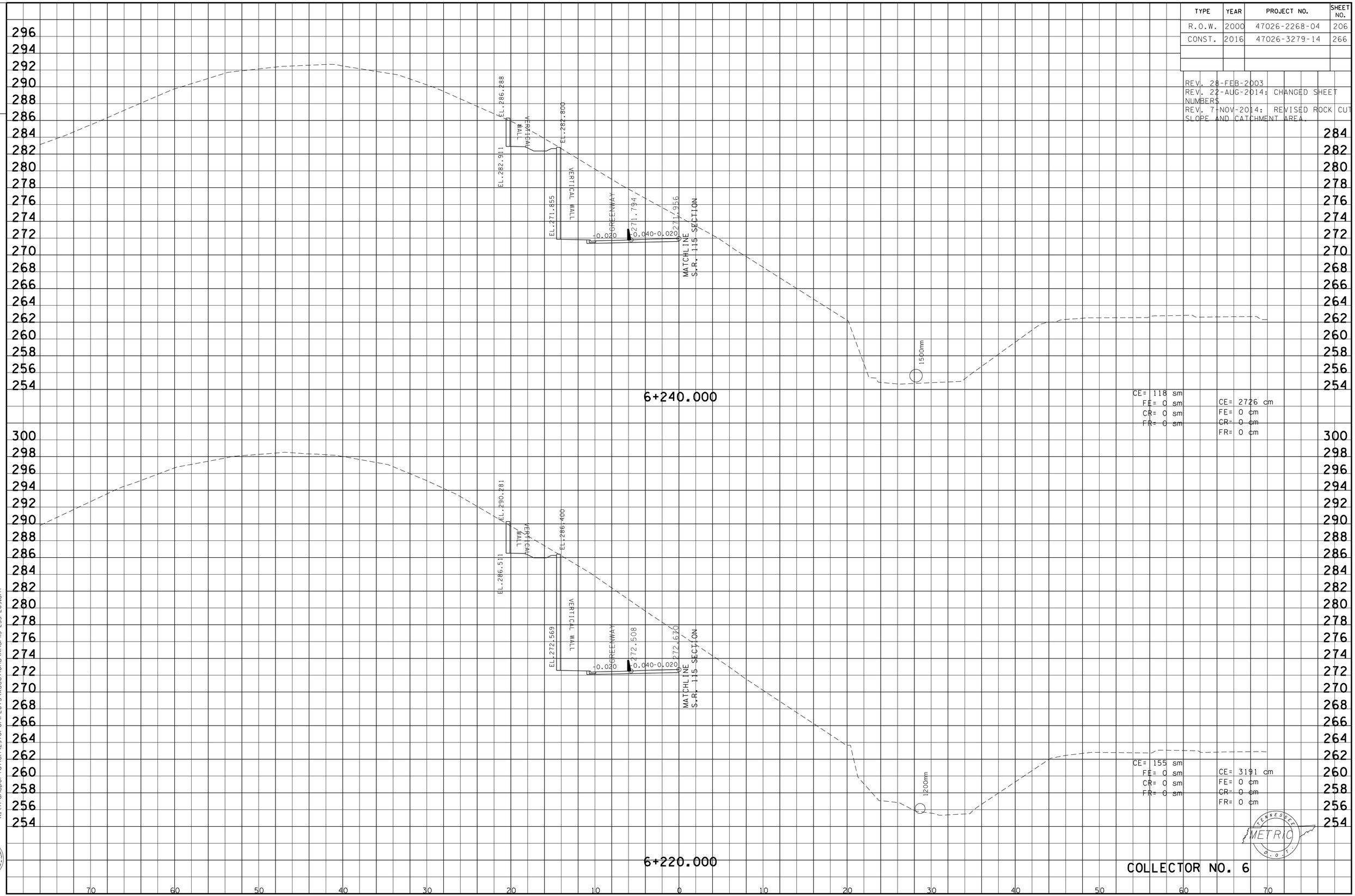
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	206
CONST.	2016	47026-3279-14	266

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA.

FILE NO.



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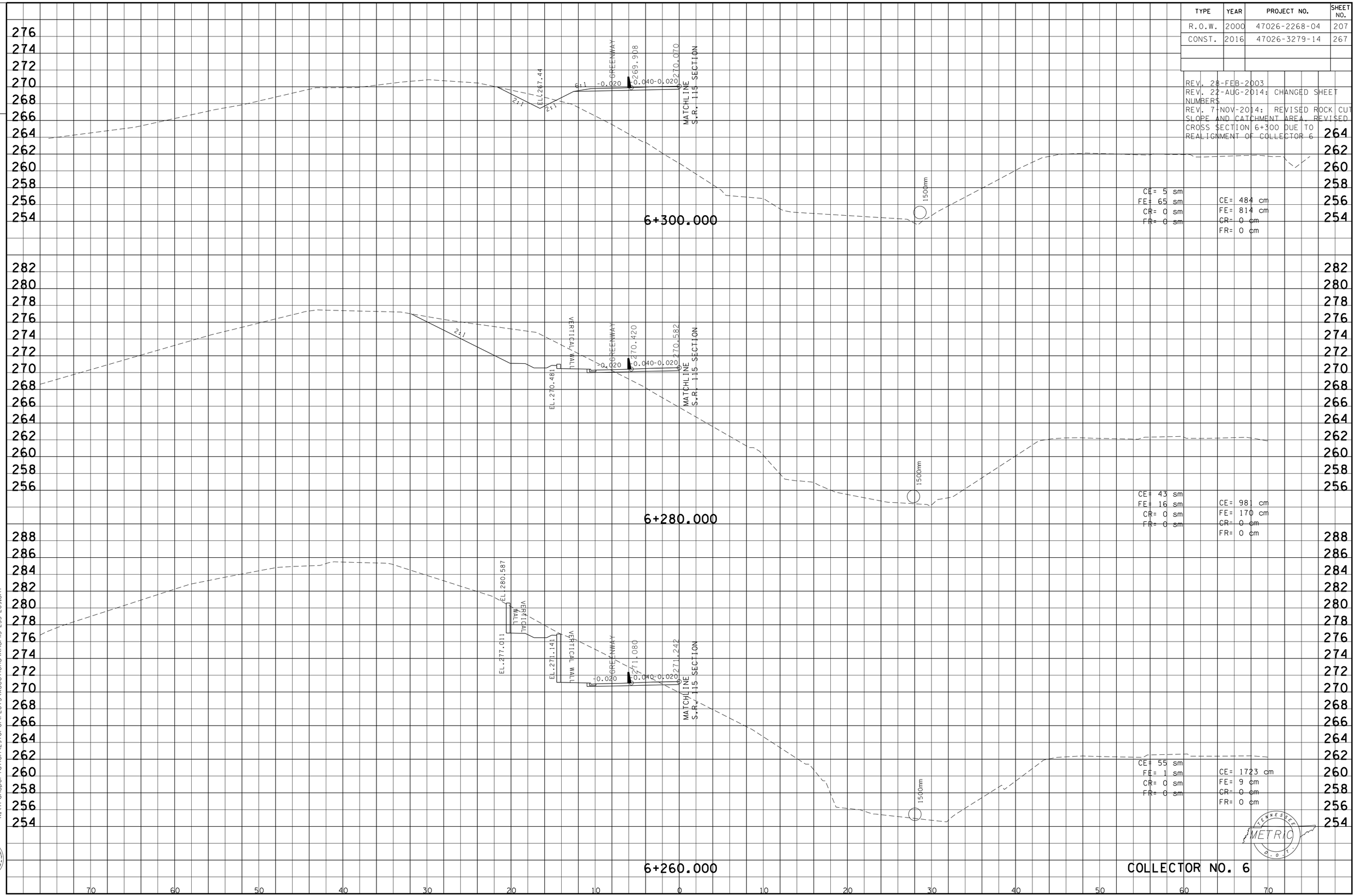
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	207
CONST.	2016	47026-3279-14	267

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED ROCK CUT SLOPE AND CATCHMENT AREA. REVISED CROSS SECTION 6+300 DUE TO REALIGNMENT OF COLLECTOR 6



FILE NO.

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Survey & Design Division

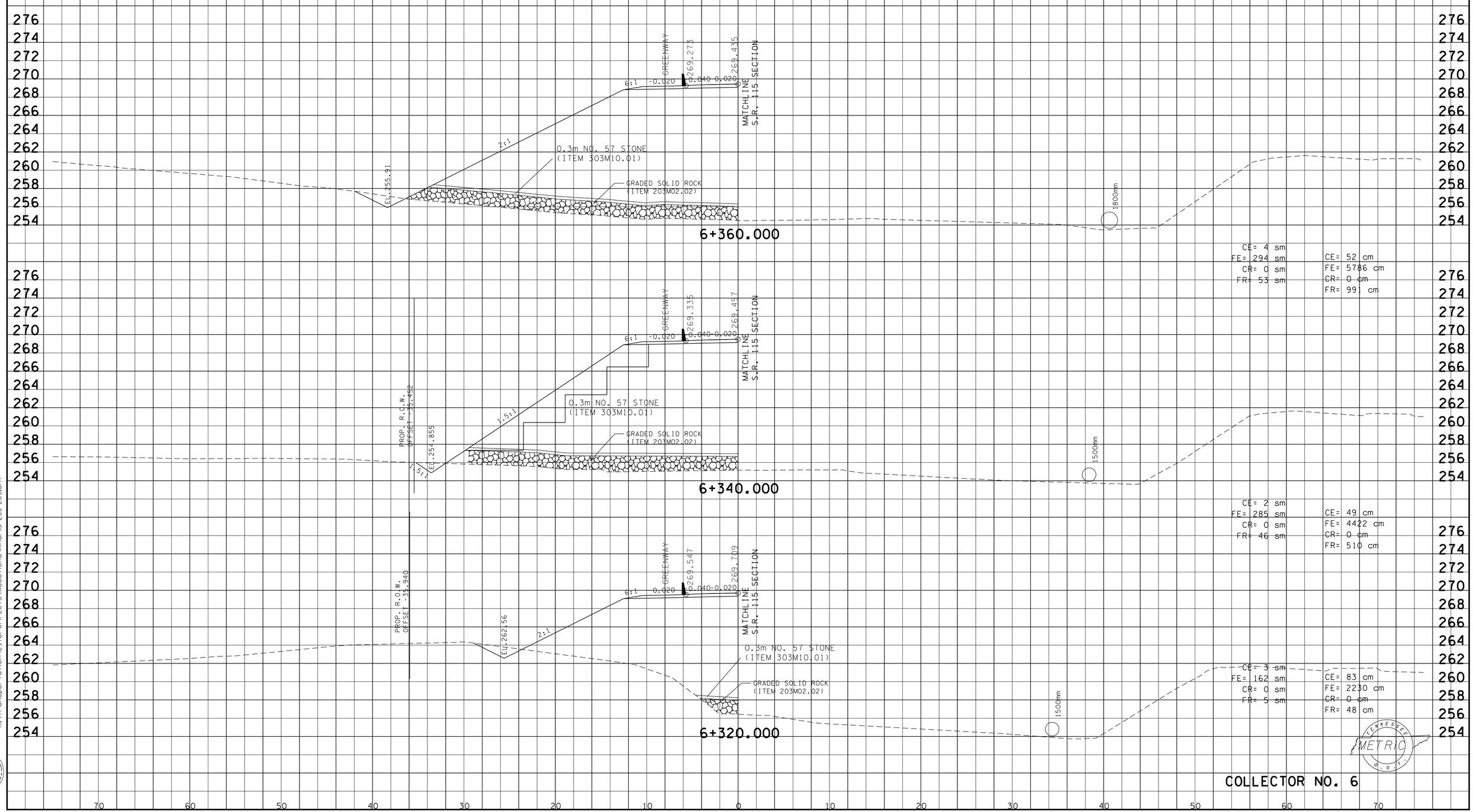
TENNESSEE METRIC D.O.T.

COLLECTOR NO. 6

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	208
CONST.	2016	47026-3279-14	268

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED CROSS SECTIONS DUE TO REALIGNMENT OF COLLECTOR 6

FILE NO.



TENNESSEE METRIC D.O.T.

COLLECTOR NO. 6

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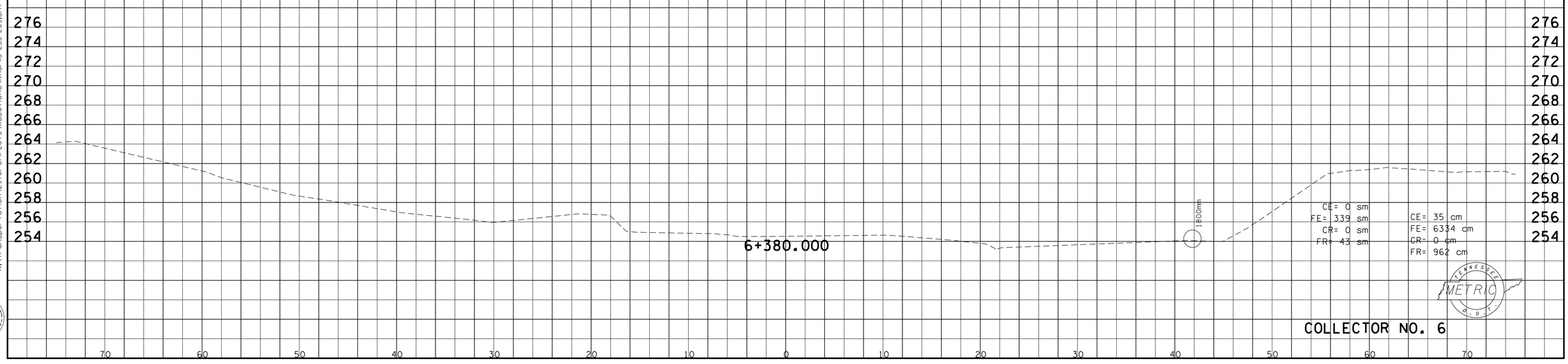
Survey & Design Division

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	209
CONST.	2016	47026-3279-14	269

REV. 28-FEB-2003
REV. 22-AUG-2014: CHANGED SHEET NUMBERS
REV. 7-NOV-2014: REVISED CROSS SECTIONS DUE TO REALIGNMENT OF COLLECTOR 6



COLLECTOR NO. 6

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Survey & Design Division

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	210
CONST.	2016	47026-3279-14	270

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

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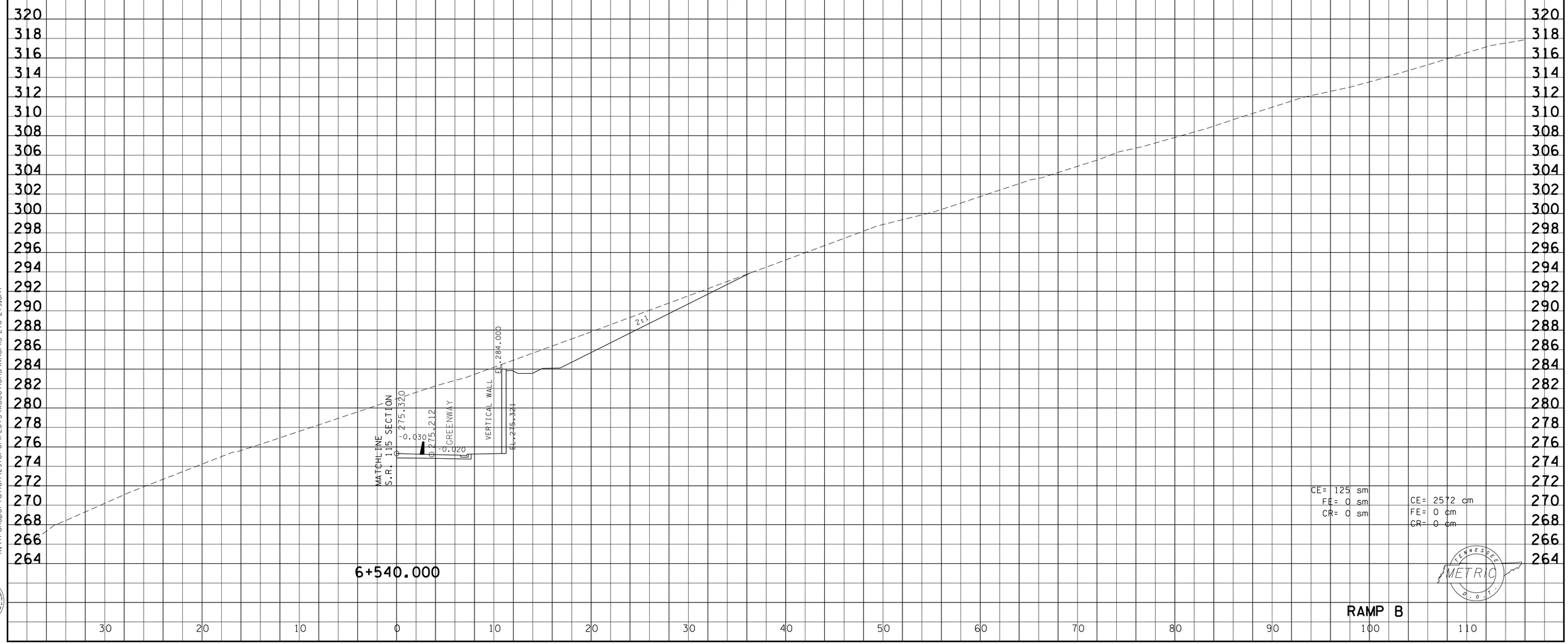
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	211
CONST.	2016	47026-3279-14	271

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



CE= 125 sm
FE= 0 sm
CR= 0 sm

CE= 2572 cm
FE= 0 cm
CR= 0 cm

TENNESSEE METRIC D.O.T.

RAMP B

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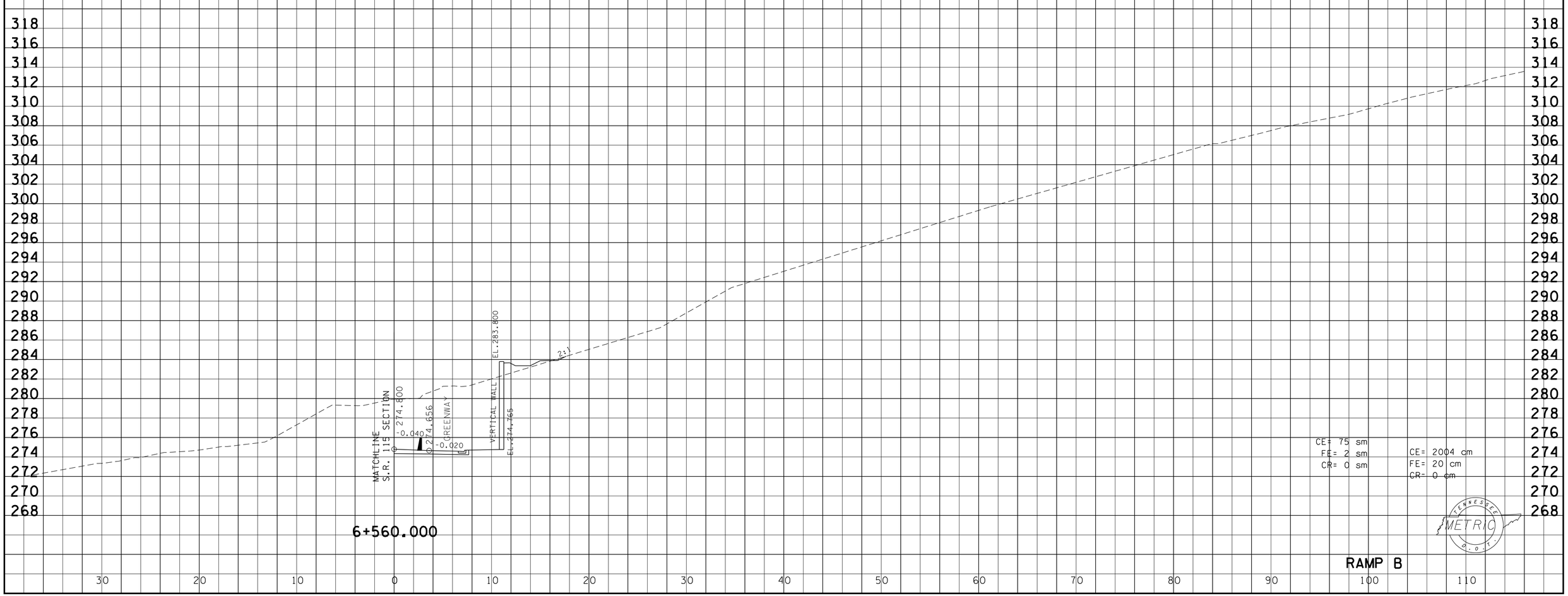
Survey & Design Division

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	212
CONST.	2016	47026-3279-14	272

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.



CE= 75 sm
FE= 2 sm
CR= 0 sm

CE= 2004 cm
FE= 20 cm
CR= 0 cm

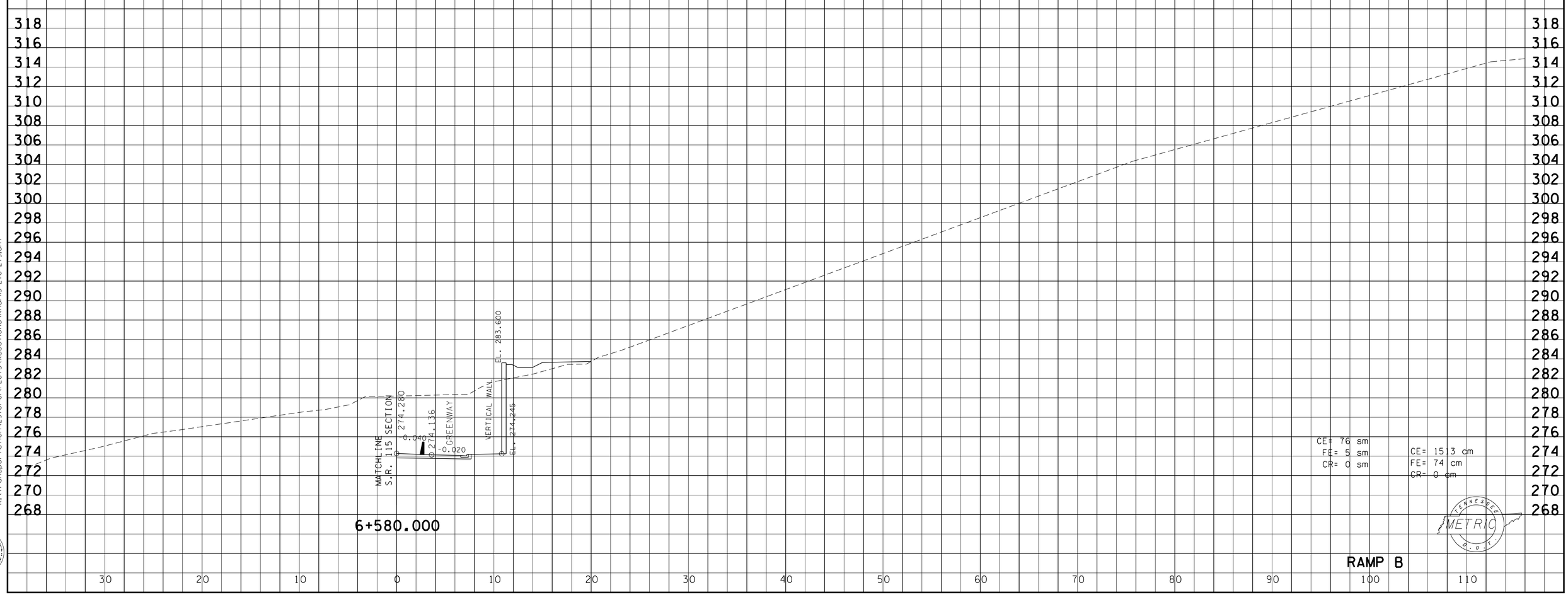
TENNESSEE METRIC D.O.T.

RAMP B

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	213
CONST.	2016	47026-3279-14	273

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



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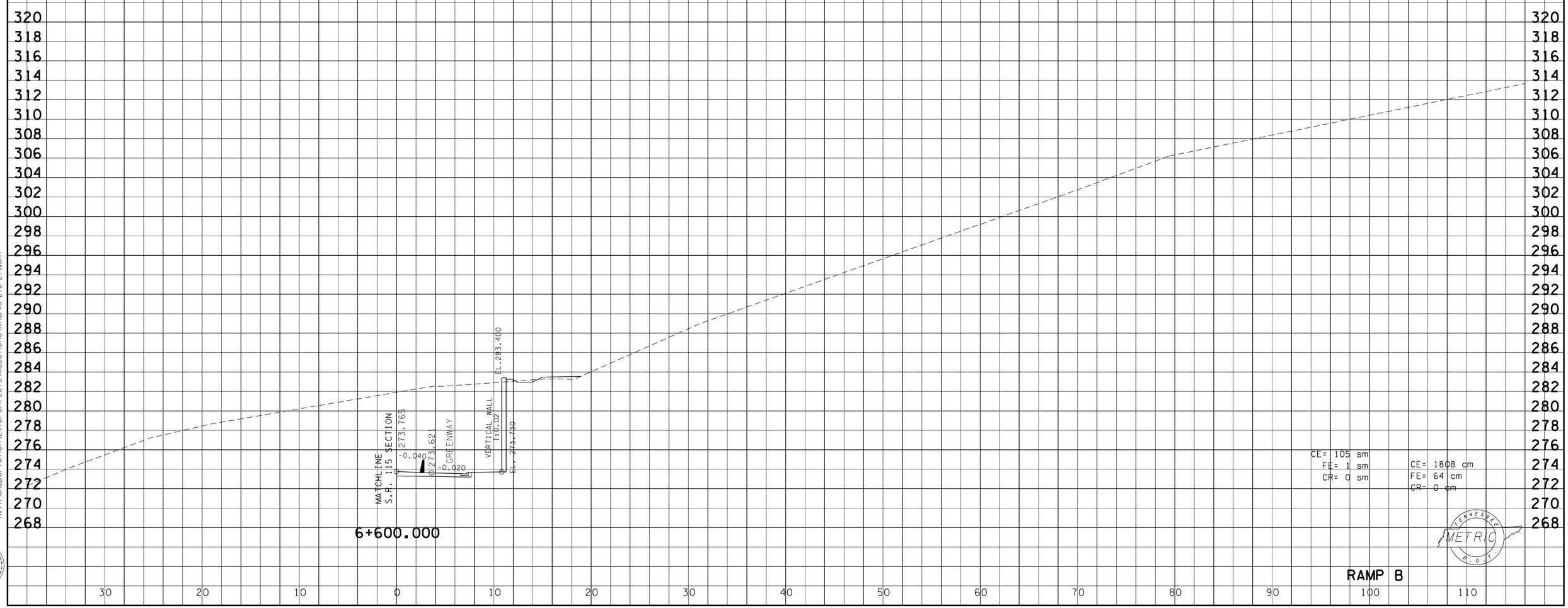
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	214
CONST.	2016	47026-3279-14	274

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



CE= 105 sm
FE= 1 sm
CR= 0 sm

CE= 1808 cm
FE= 64 cm
CR= 0 cm

RAMP B

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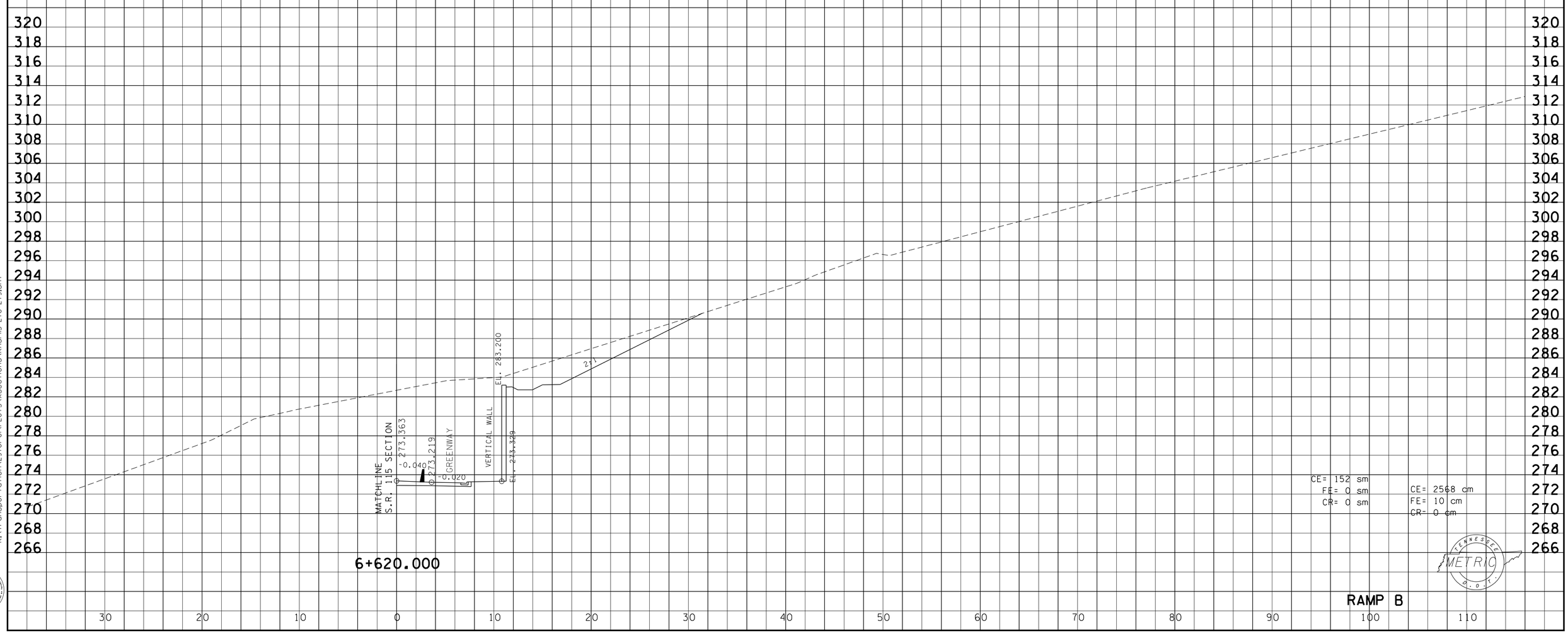
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	215
CONST.	2016	47026-3279-14	275

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



CE= 152 sm
FE= 0 sm
CR= 0 sm

CE= 2568 cm
FE= 10 cm
CR= 0 cm

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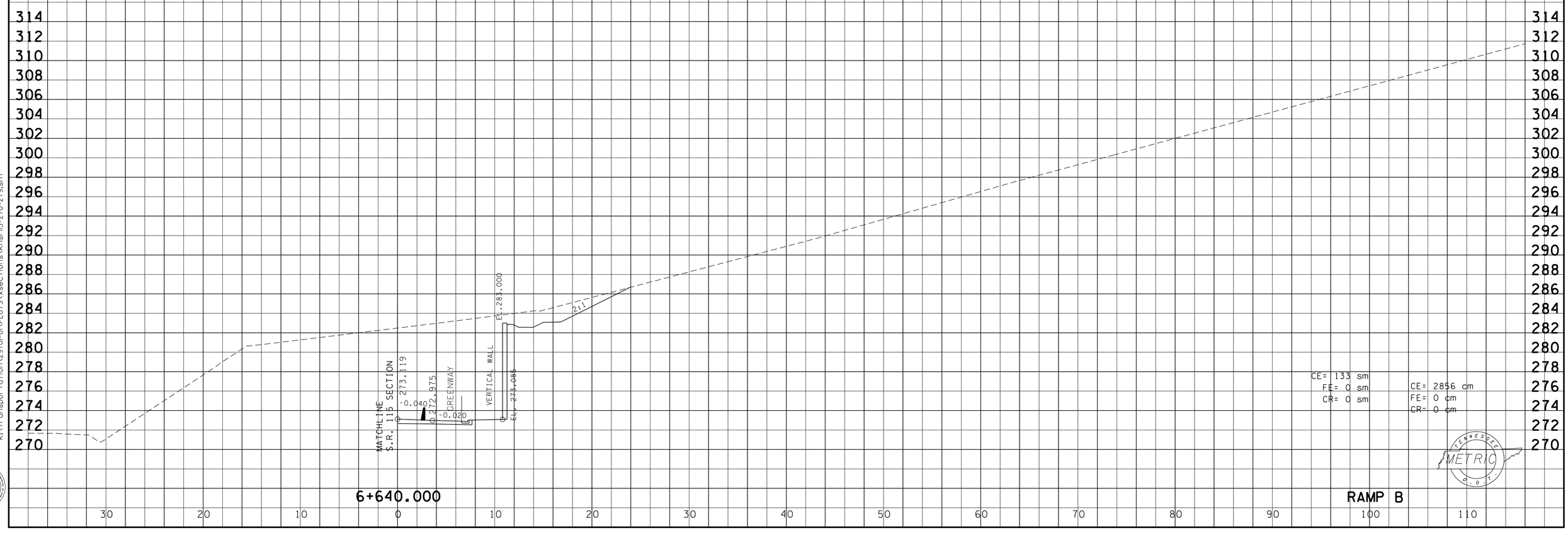
Survey & Design Division

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	216
CONST.	2016	47026-3279-14	276

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.



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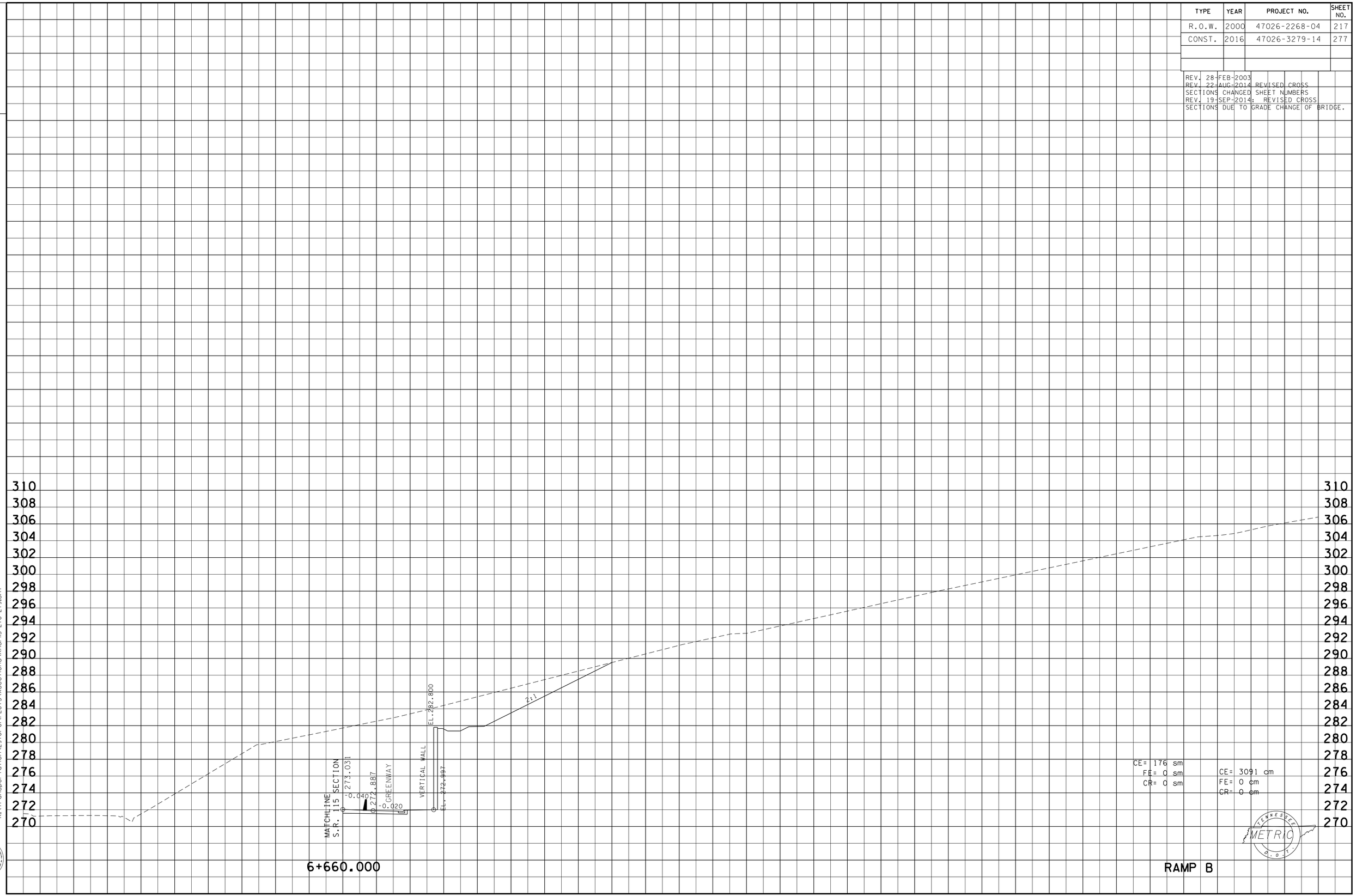
Survey & Design Division

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	217
CONST.	2016	47026-3279-14	277

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.



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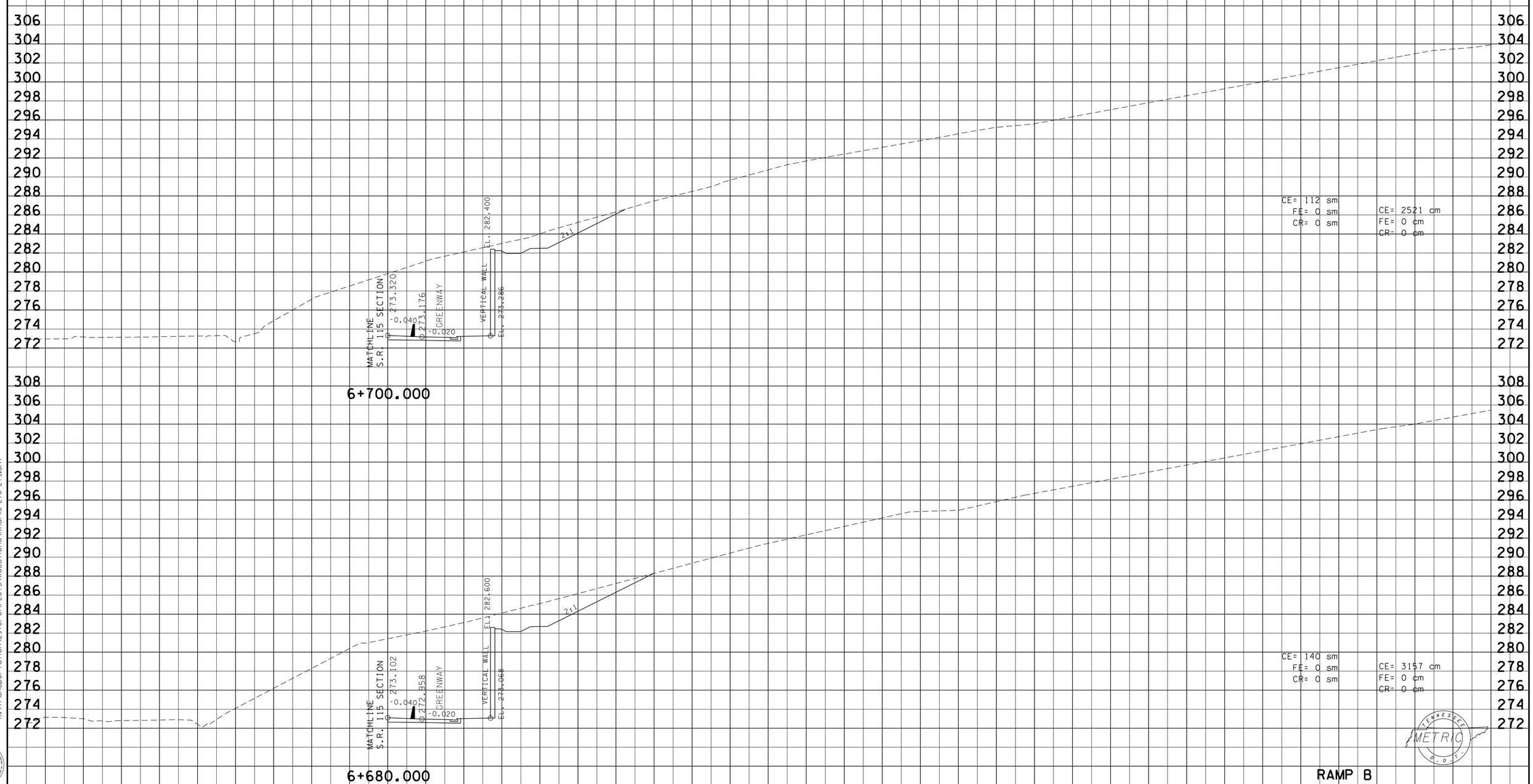
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	218
CONST.	2016	47026-3279-14	278

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



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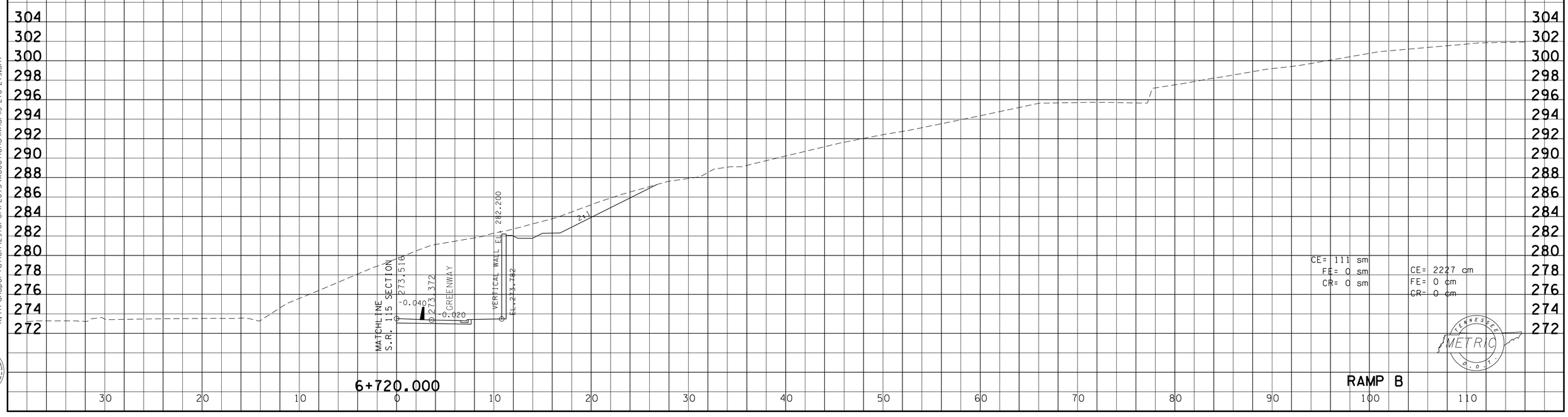
Survey & Design Division

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	219
CONST.	2016	47026-3279-14	279

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.



RAMP B

METRIC

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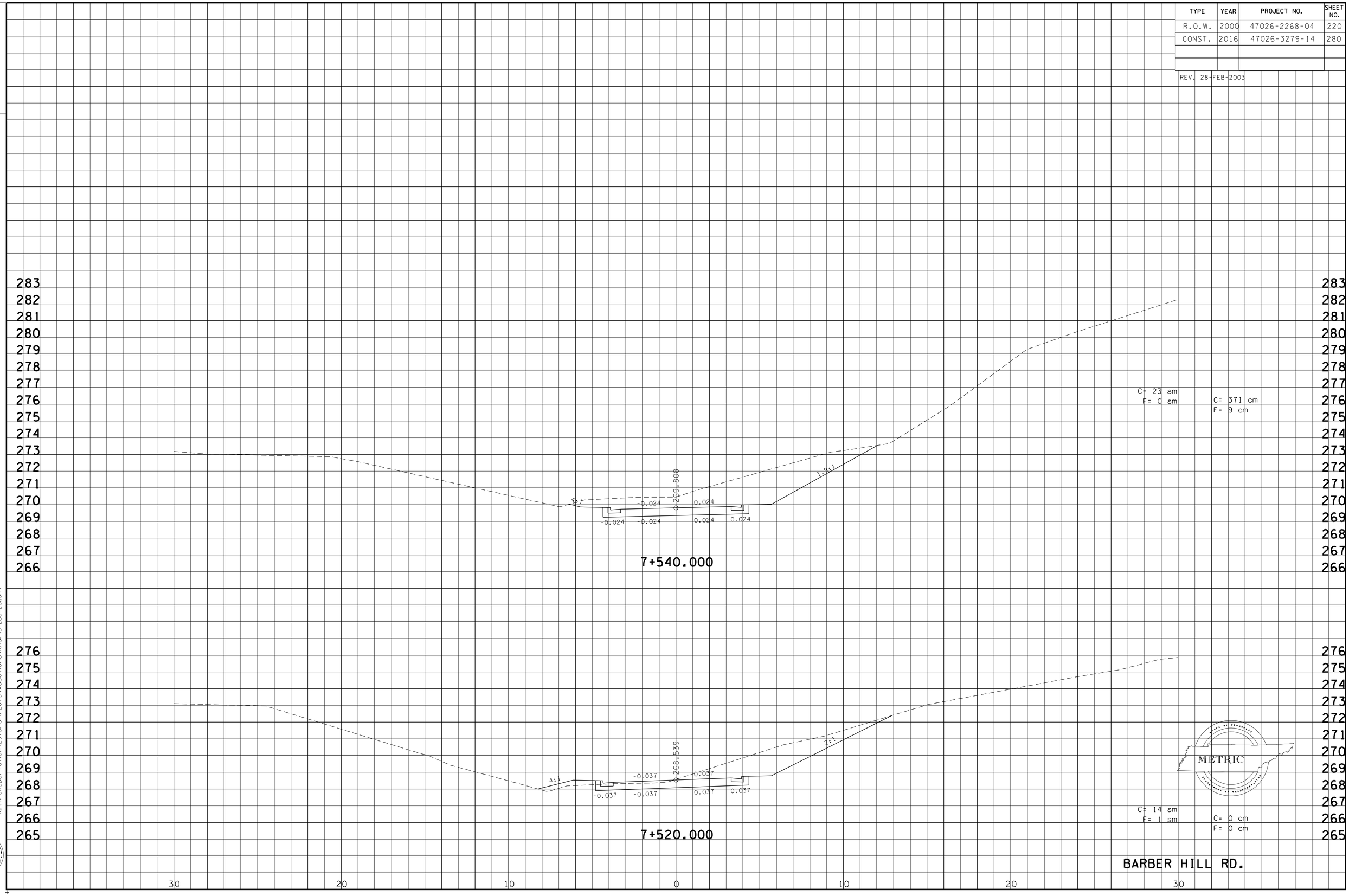
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	220
CONST.	2016	47026-3279-14	280

REV. 28-FEB-2003

FILE NO.



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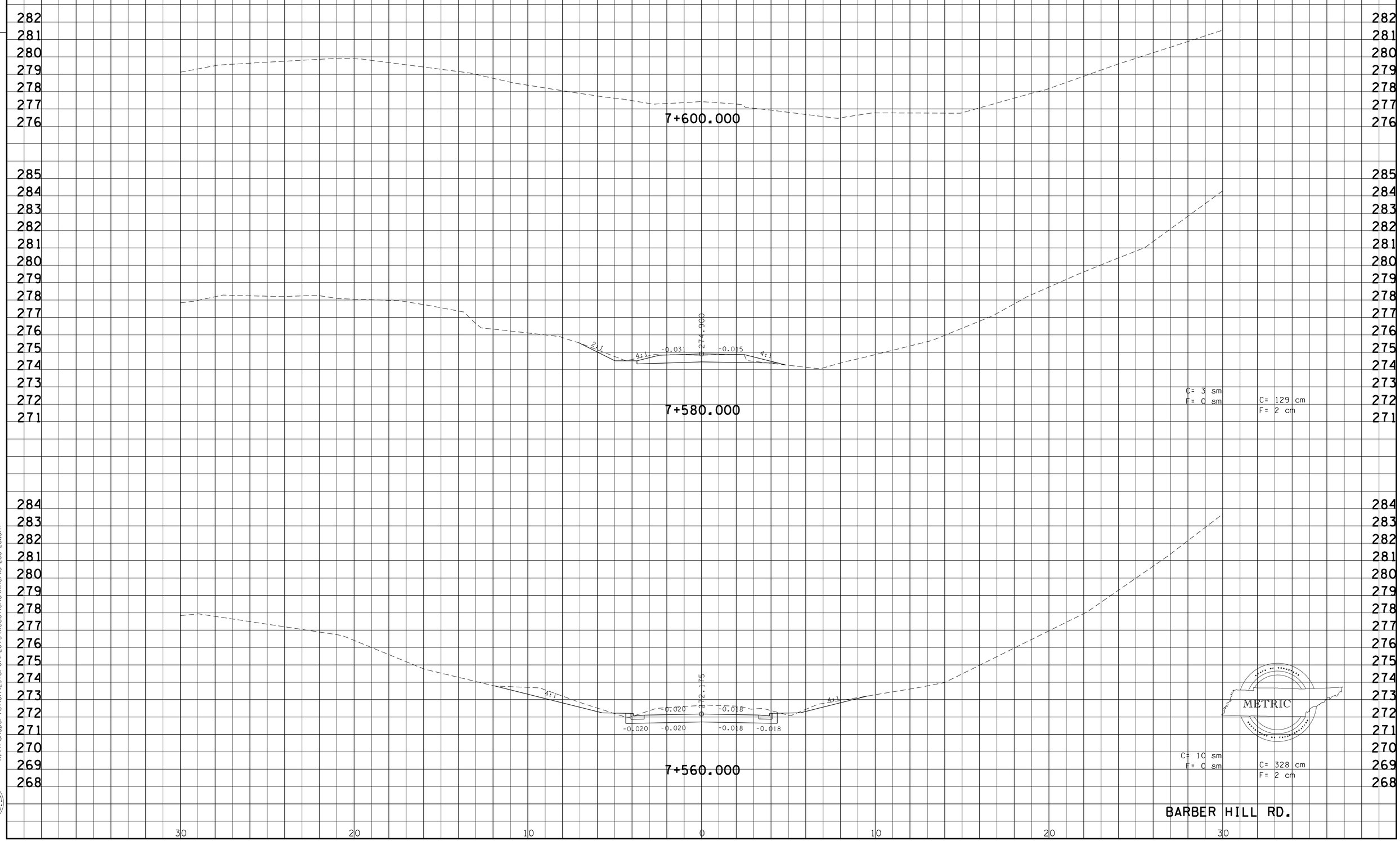
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	221
CONST.	2016	47026-3279-14	281

REV. 28-FEB-2003

FILE NO.



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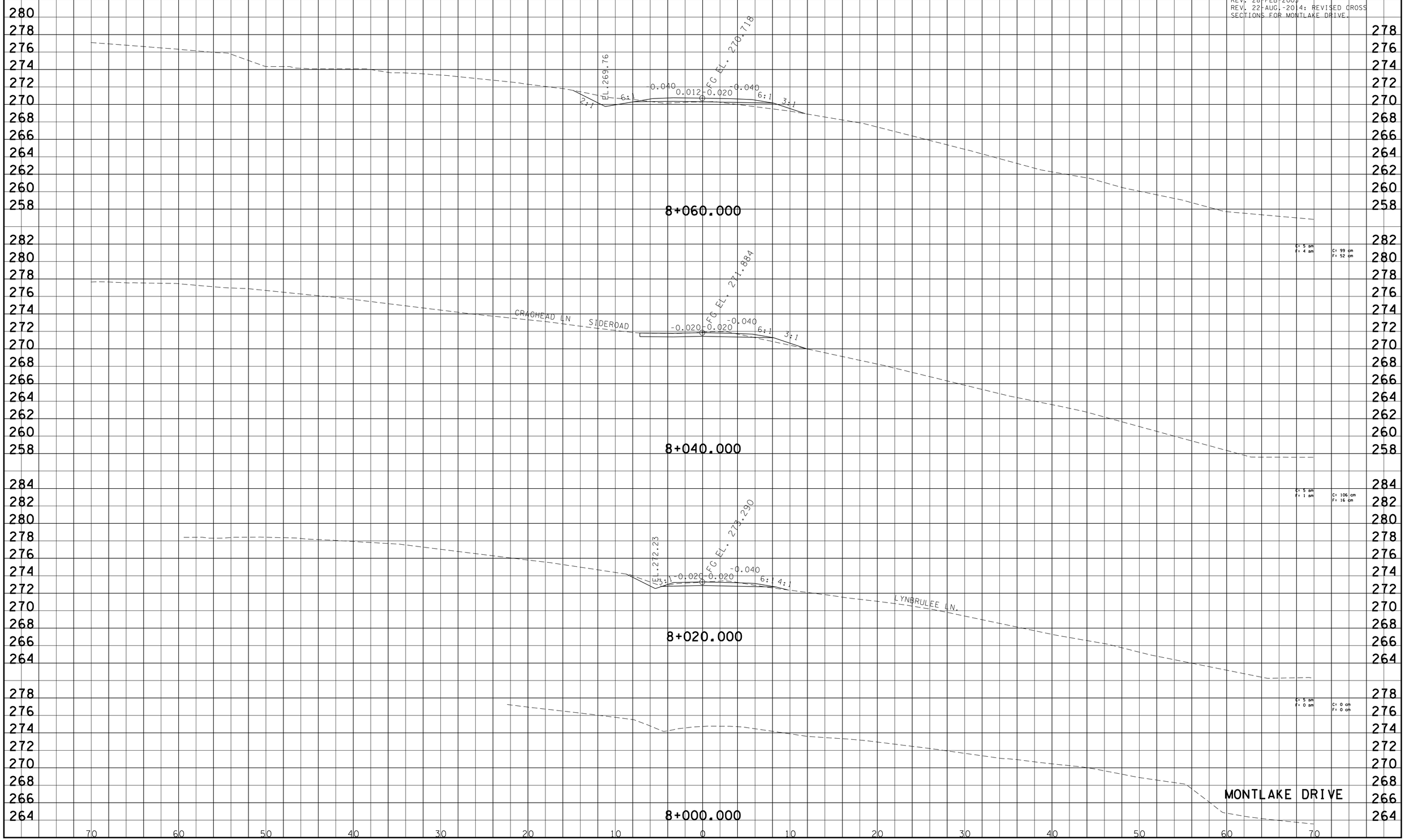
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	222
CONST.	2016	47026-3279-14	282

REV. 04-13-2001: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MONTLAKE DRIVE.



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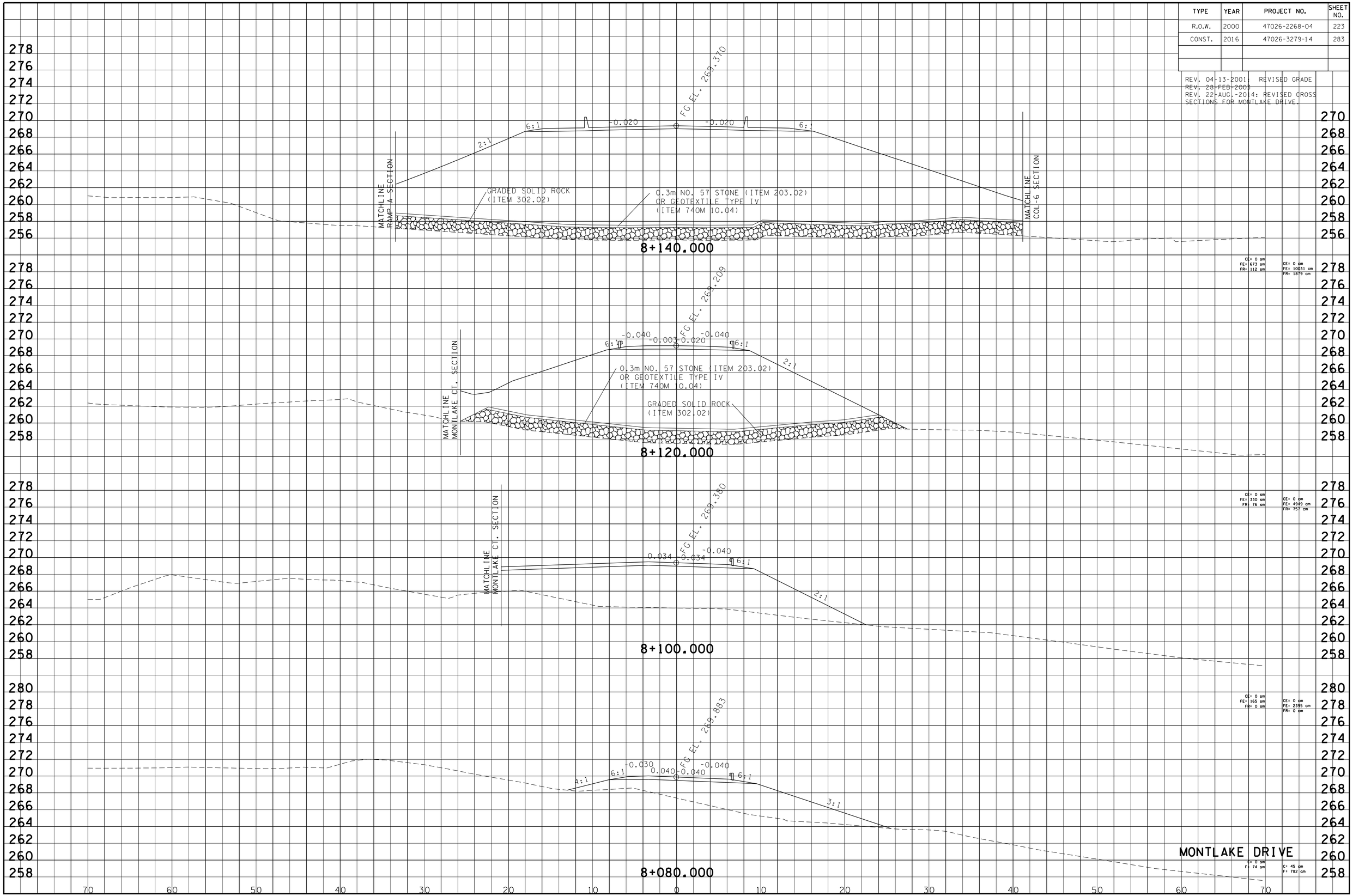
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	223
CONST.	2016	47026-3279-14	283

REV. 04-13-2001: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MONTLAKE DRIVE.



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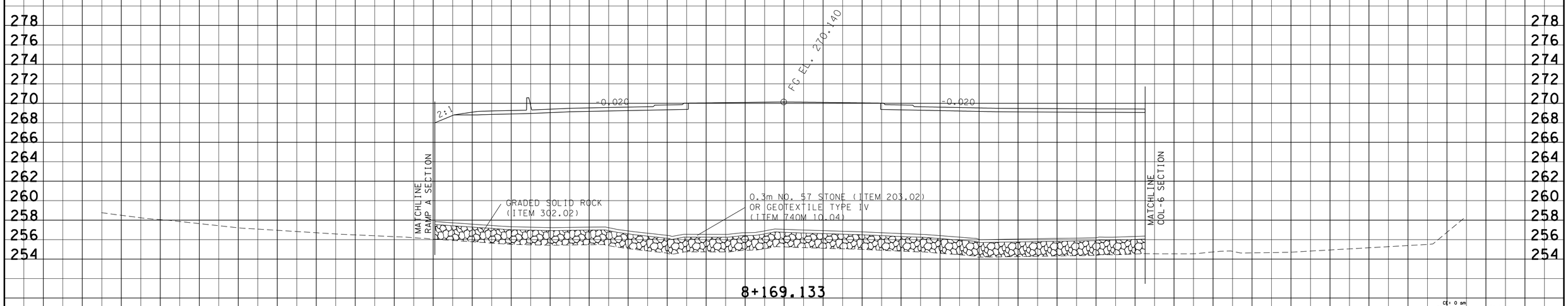
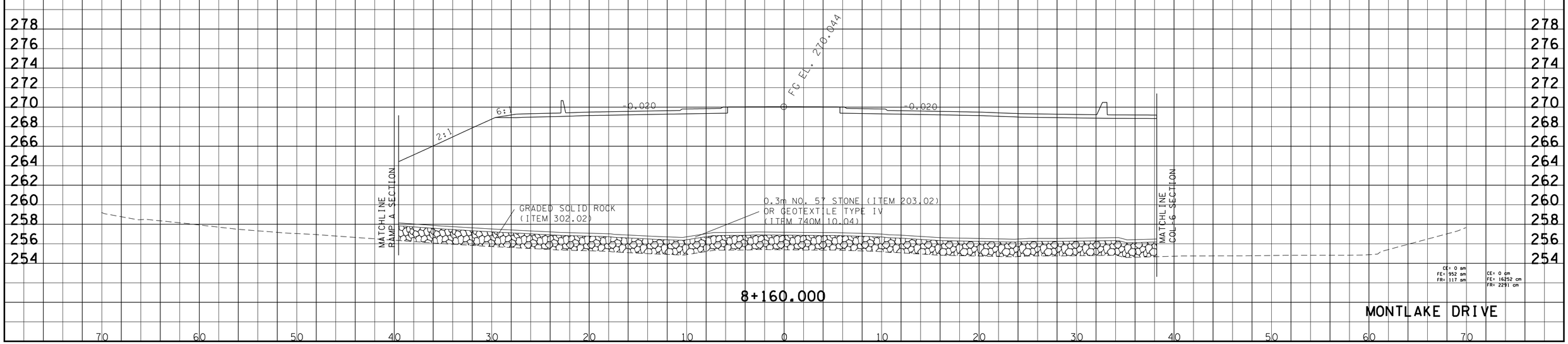
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	224
CONST.	2016	47026-3279-14	284

REV. 04-13-2001: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR MONTLAKE DRIVE.





MONTLAKE DRIVE

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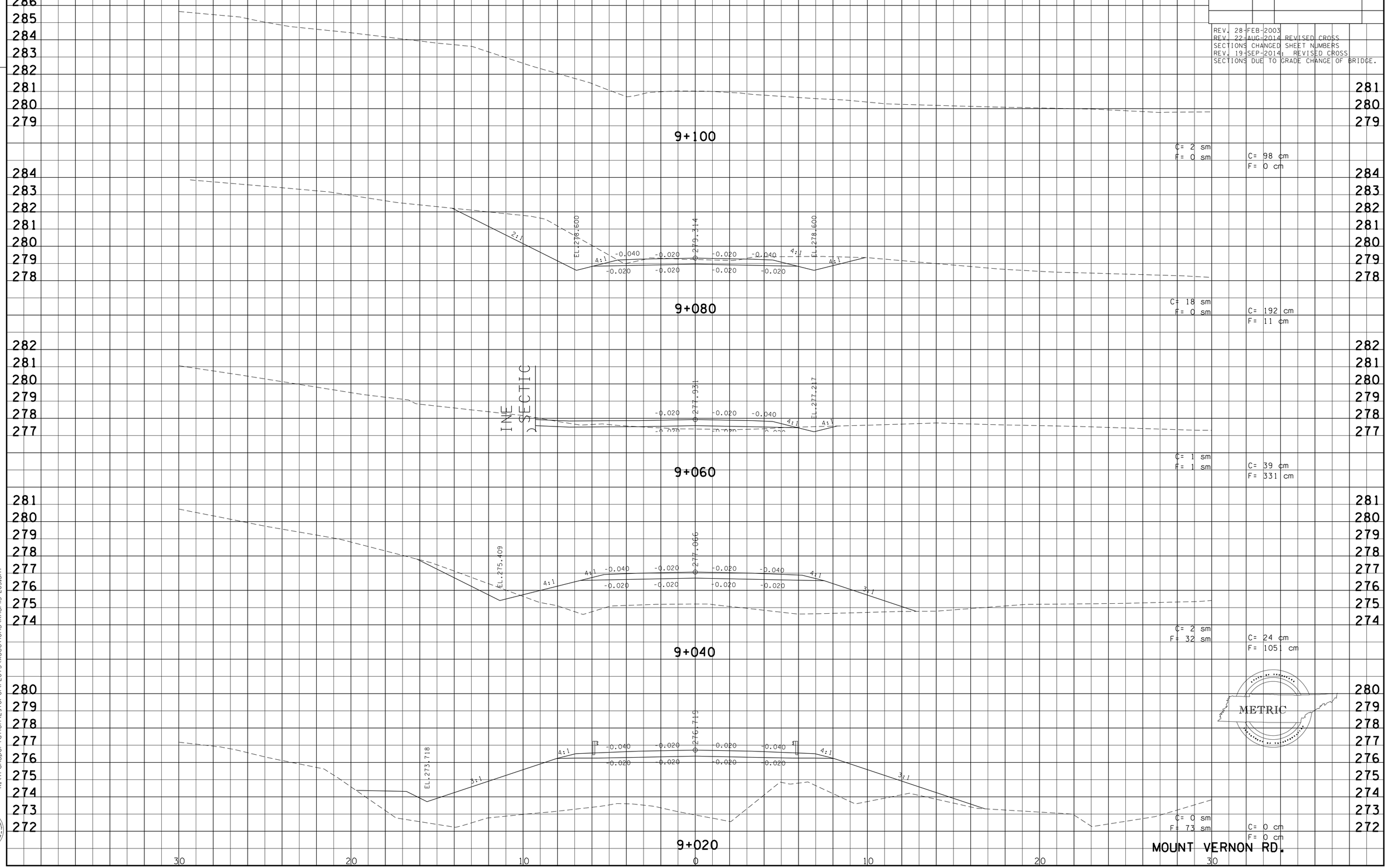
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	225
CONST.	2016	47026-3279-14	285

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



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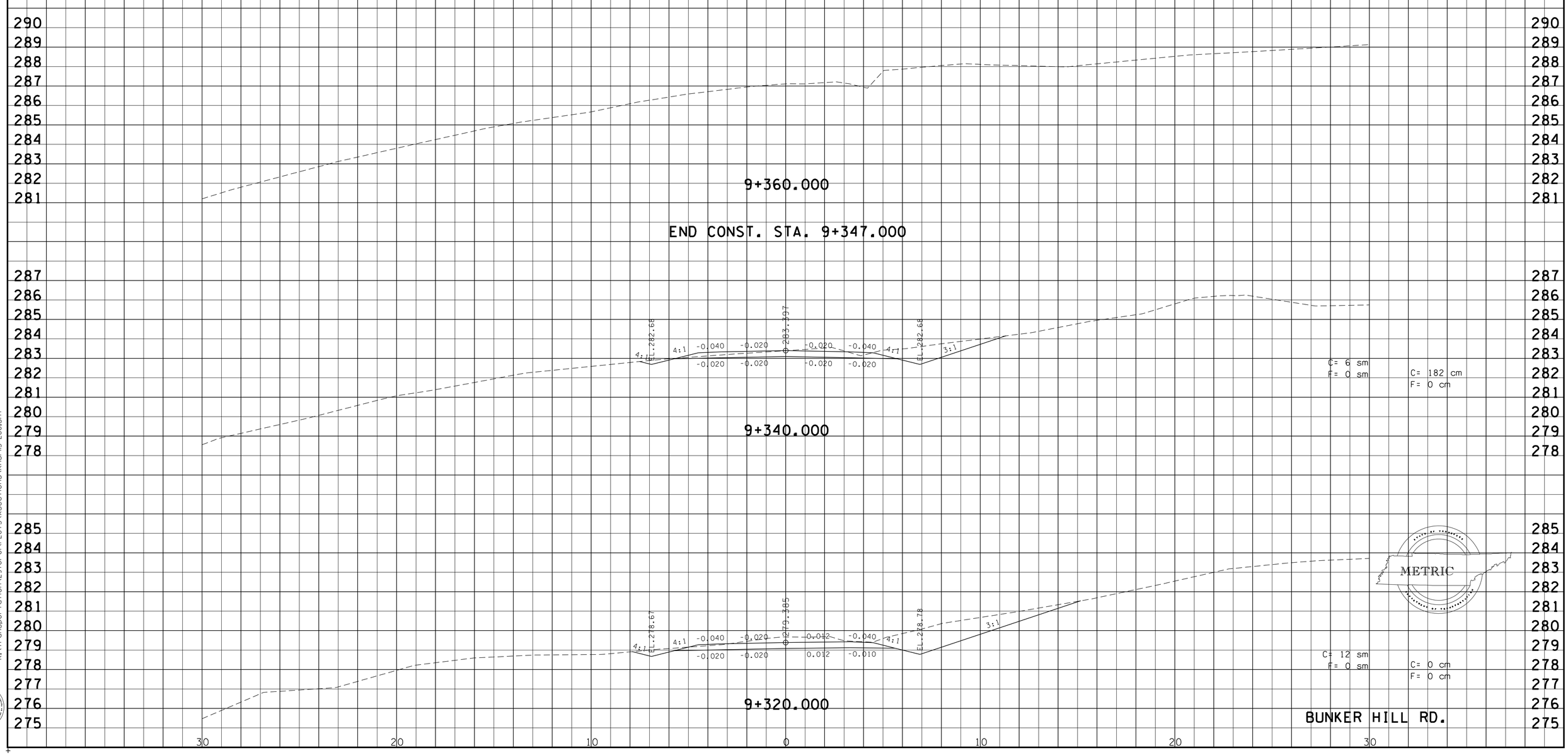
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	226
CONST.	2016	47026-3279-14	286

REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS
REV. 19-SEP-2014: REVISED CROSS SECTIONS DUE TO GRADE CHANGE OF BRIDGE.

FILE NO.



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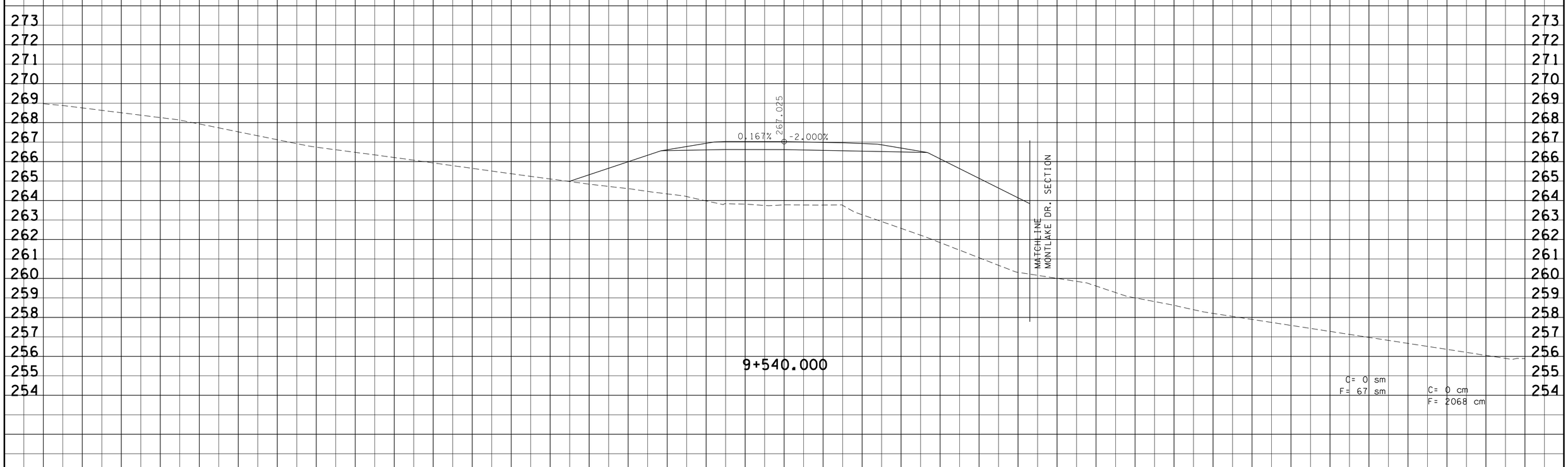
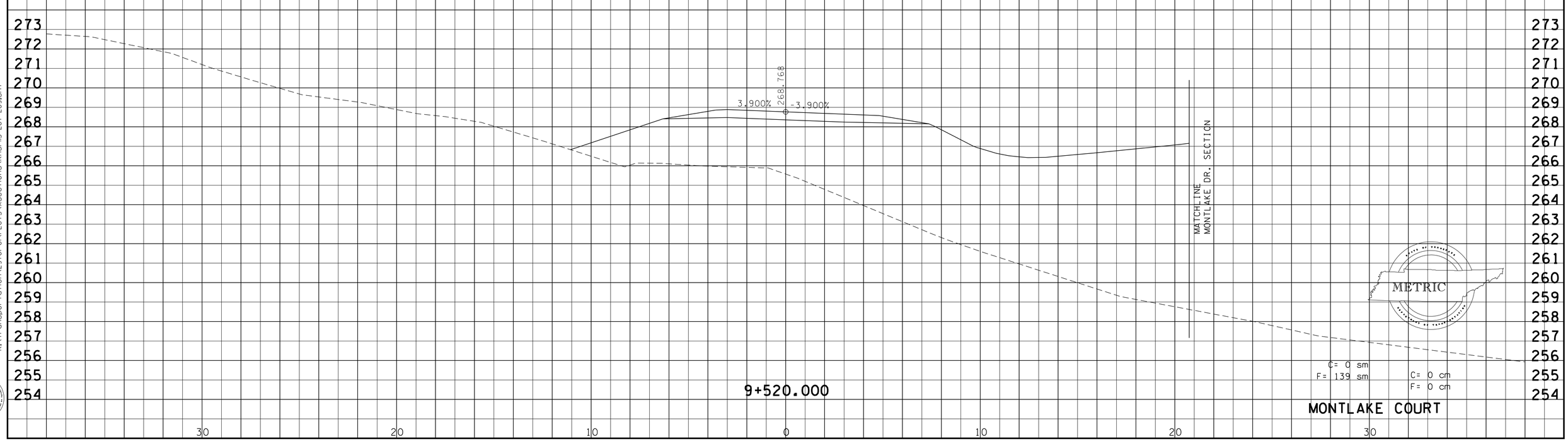
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	227
CONST.	2016	47026-3279-14	287

REV. 04-13-2001: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.





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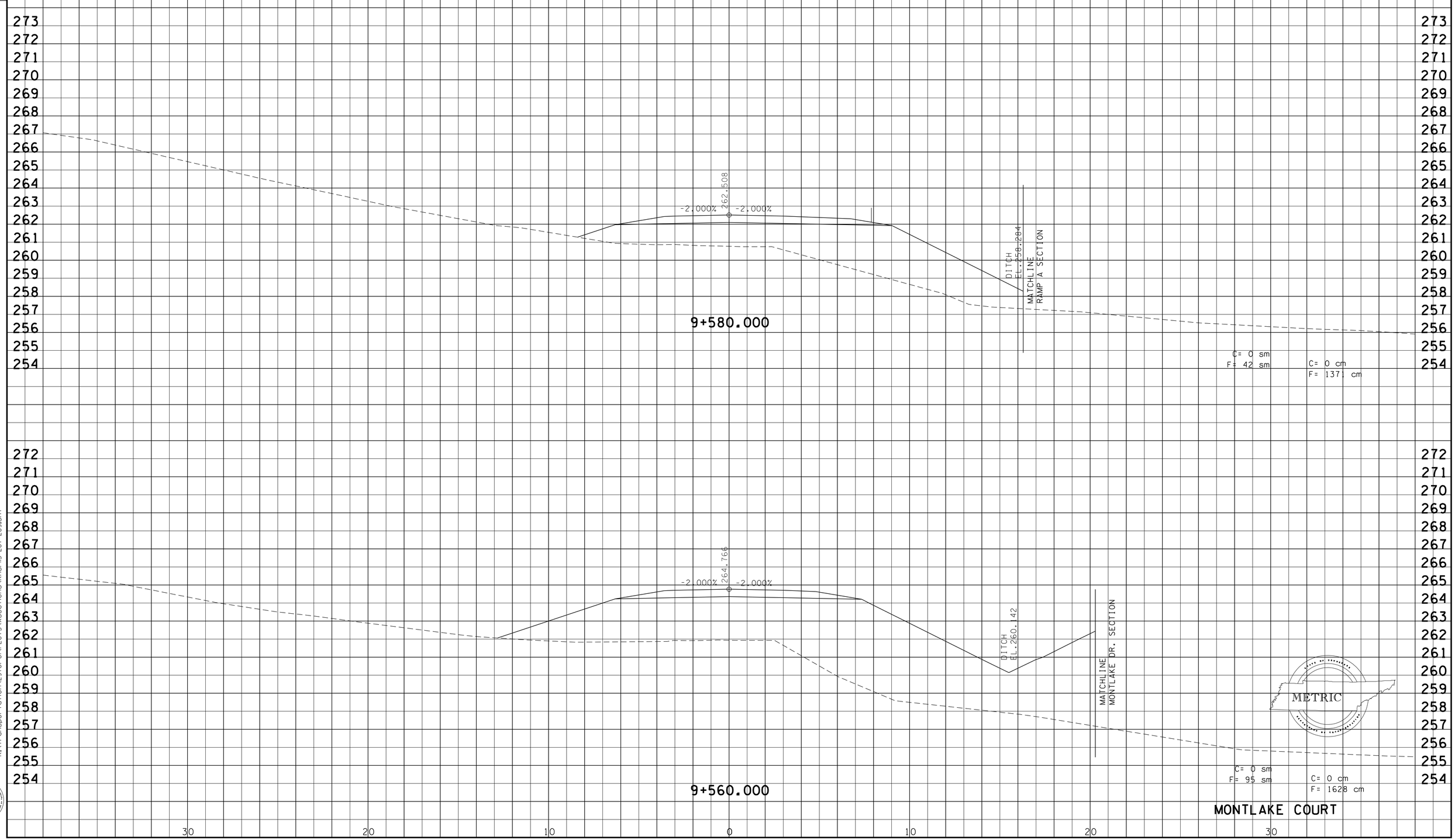
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	228
CONST.	2016	47026-3279-14	288

REV. 04-13-2001: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.



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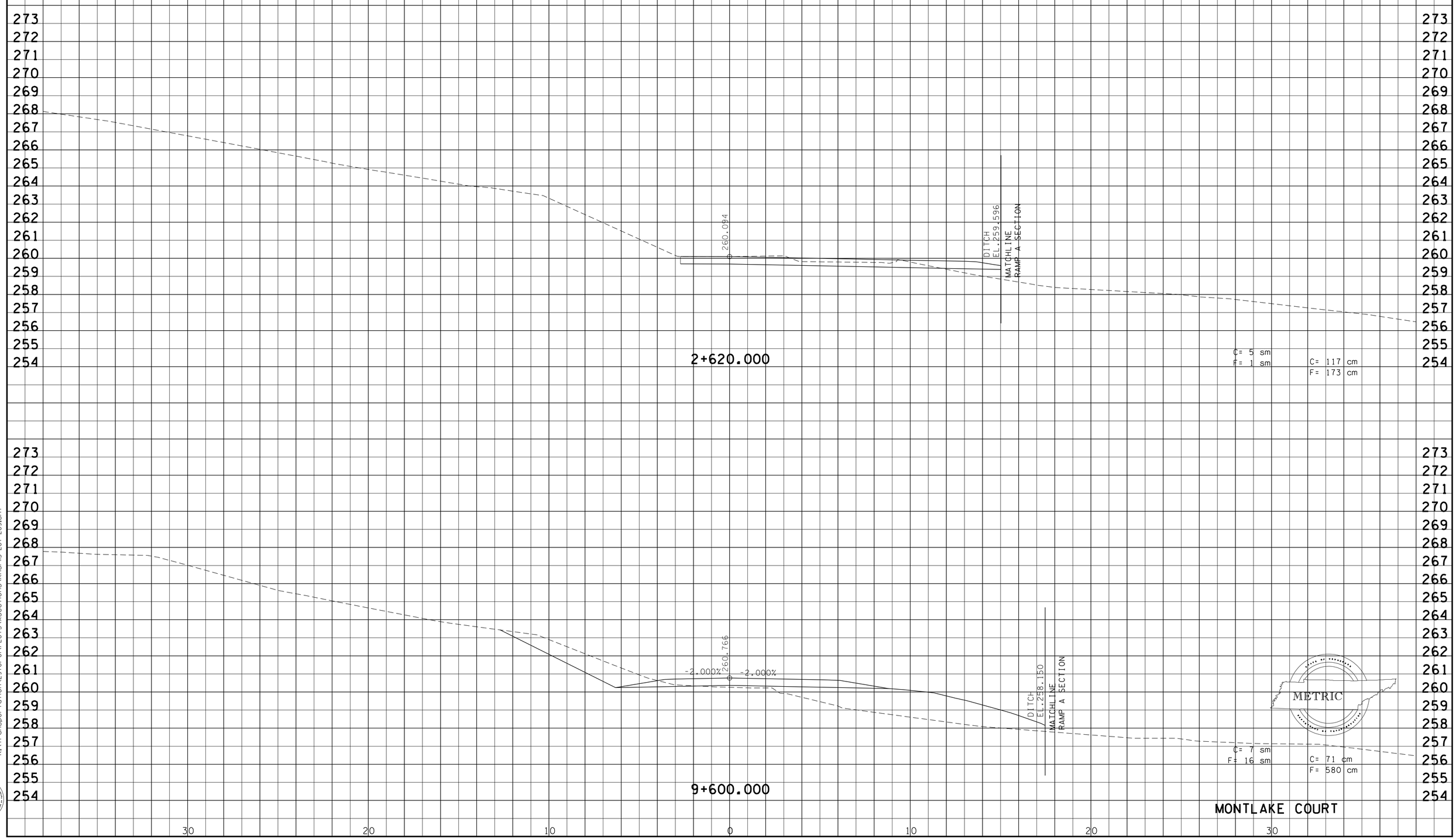
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	229
CONST.	2016	47026-3279-14	289

REV. 04-13-2001: REVISED GRADE
REV. 28-FEB-2003
REV. 22-AUG-2014 REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.



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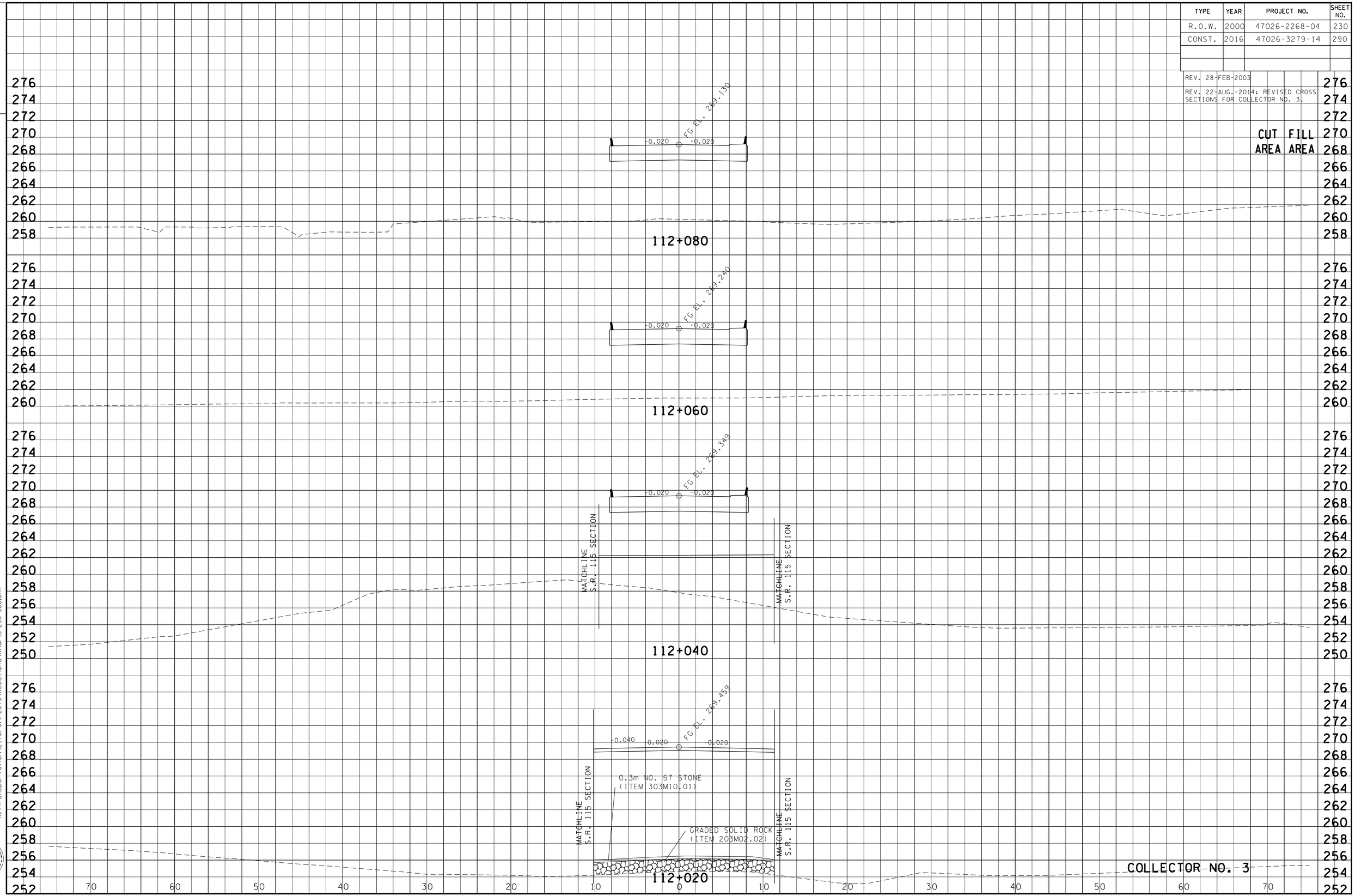
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	230
CONST.	2016	47026-3279-14	290

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.



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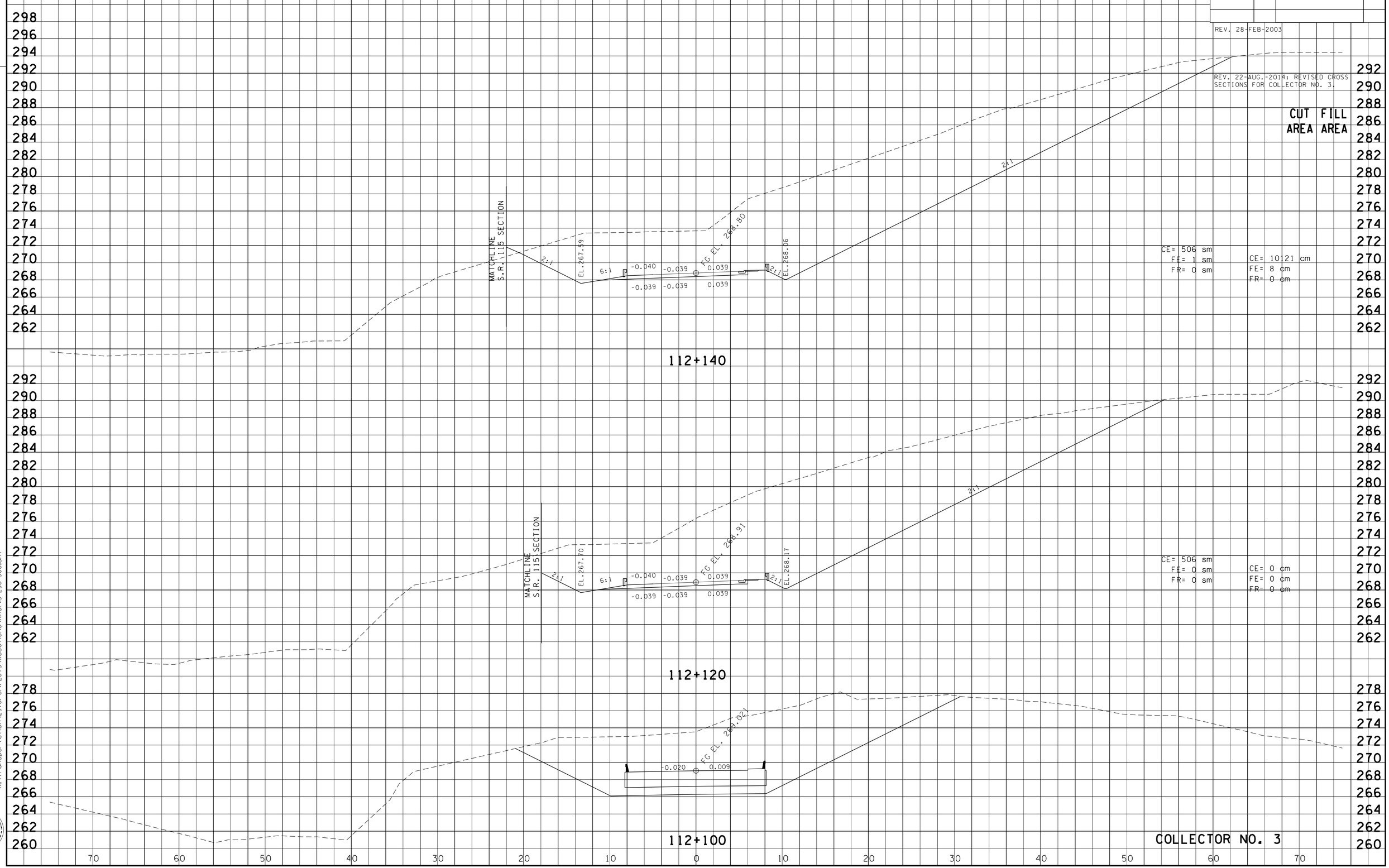
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	231
CONST.	2016	47026-3279-14	291

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.



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Survey & Design Division

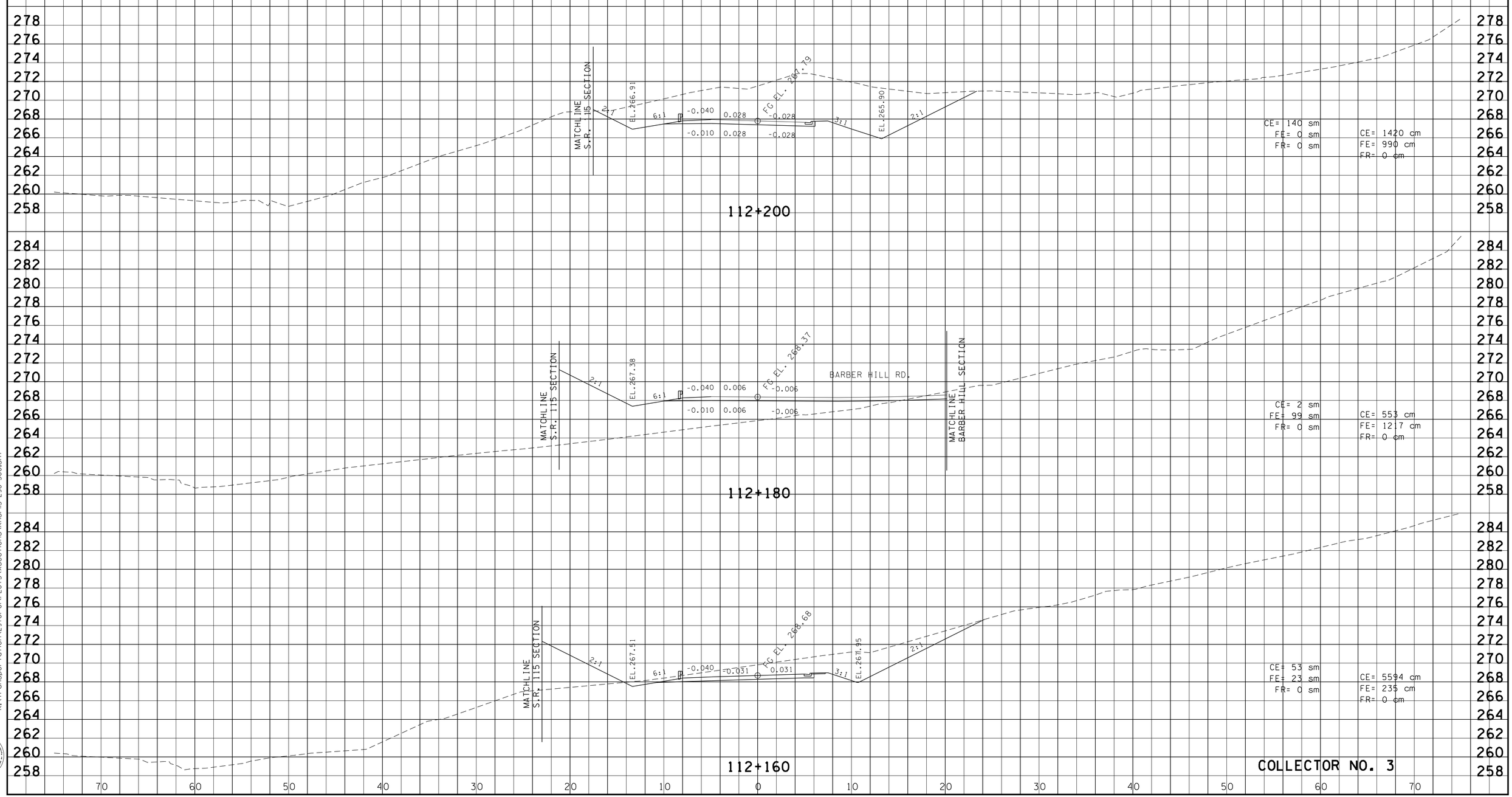
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	232
CONST.	2016	47026-3279-14	292

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.

CUT AREA | FILL AREA



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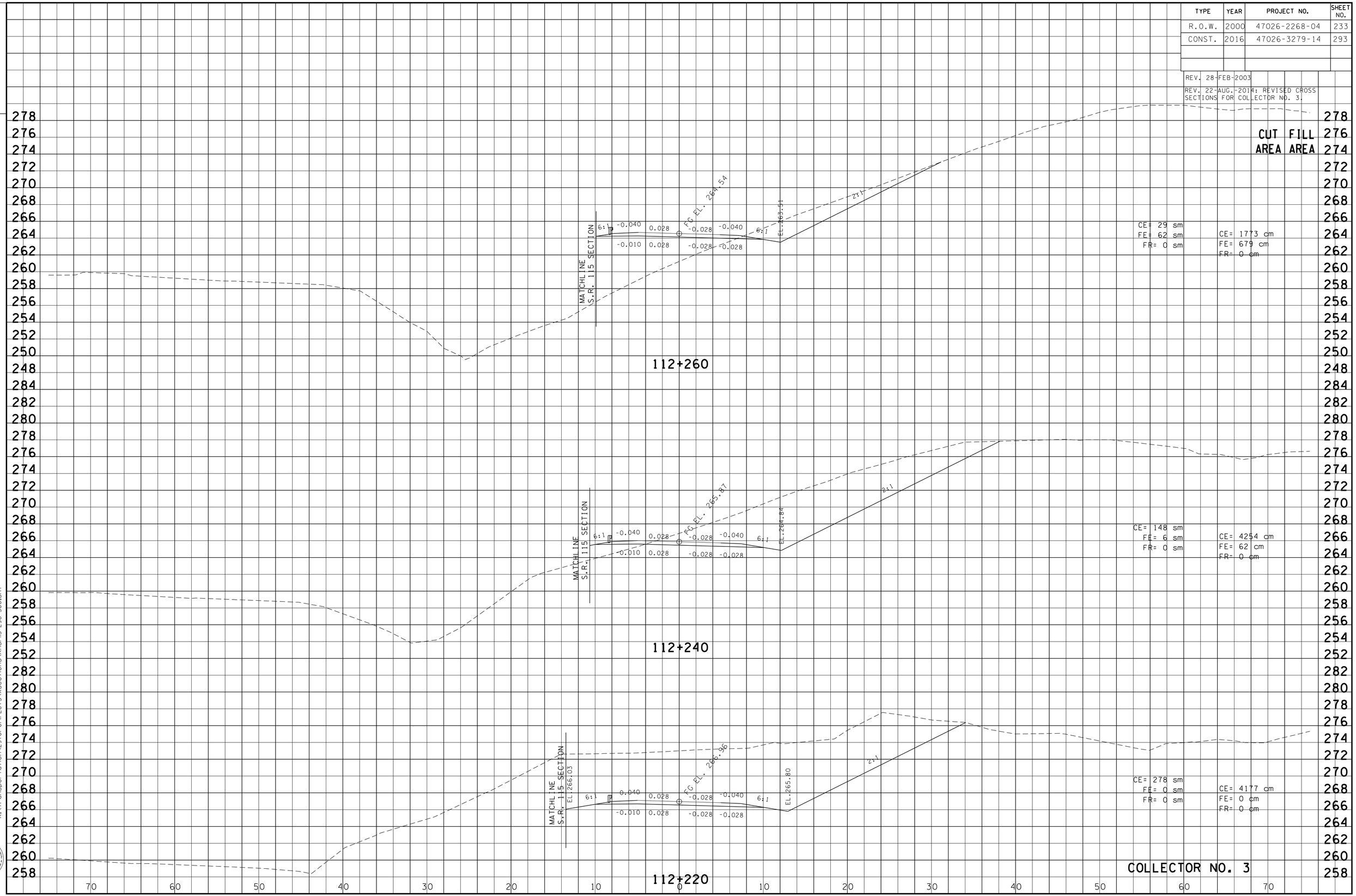
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	233
CONST.	2016	47026-3279-14	293

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.



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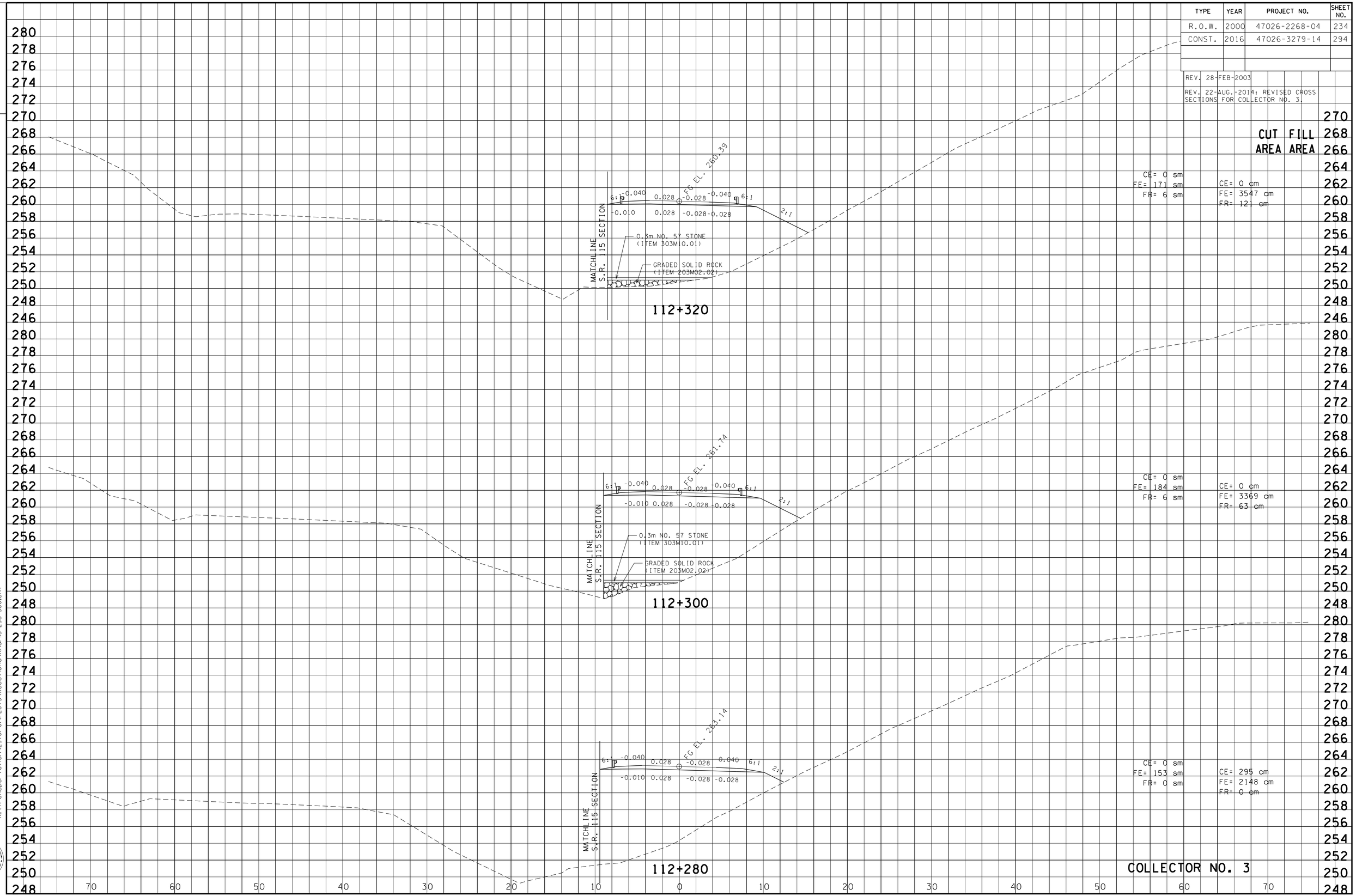
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	234
CONST.	2016	47026-3279-14	294

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.



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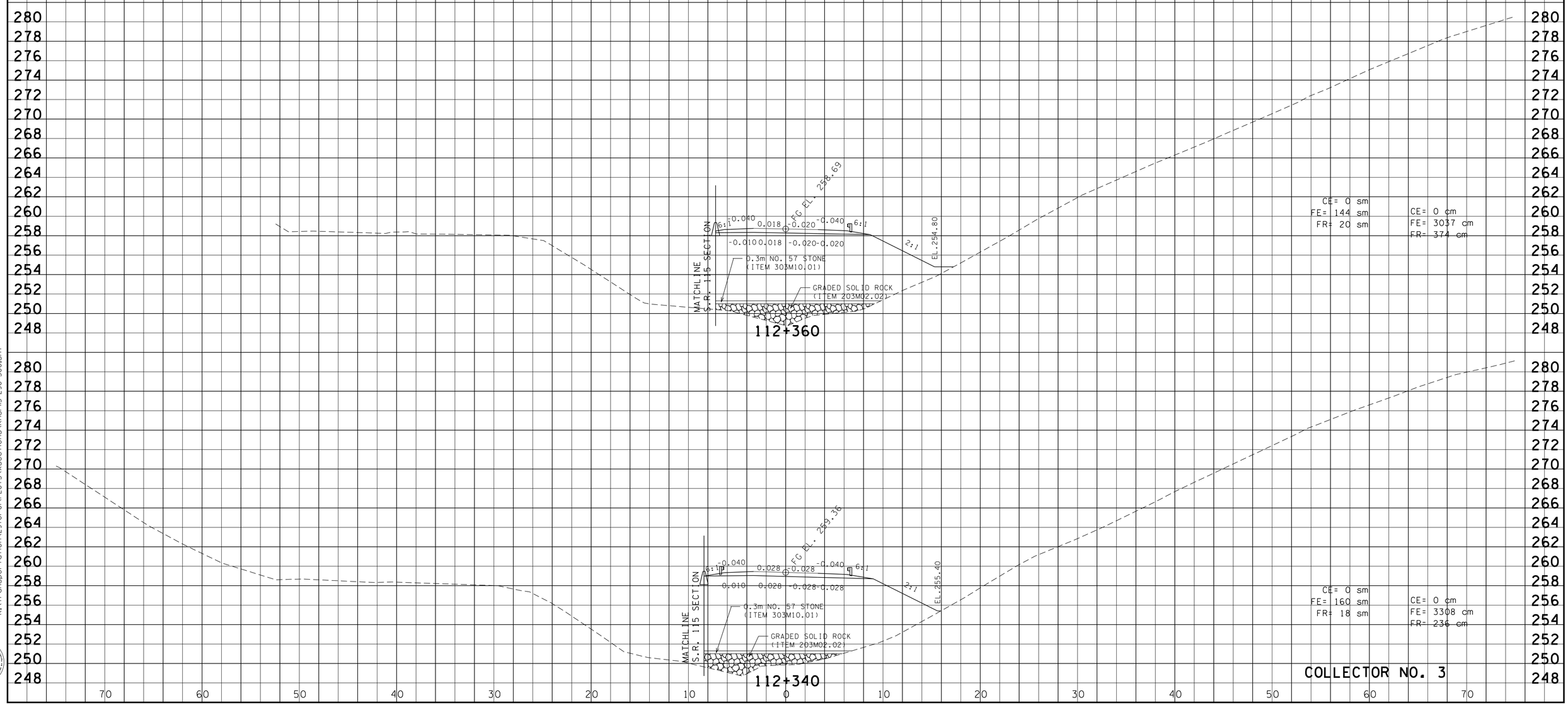
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	235
CONST.	2016	47026-3279-14	295

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.



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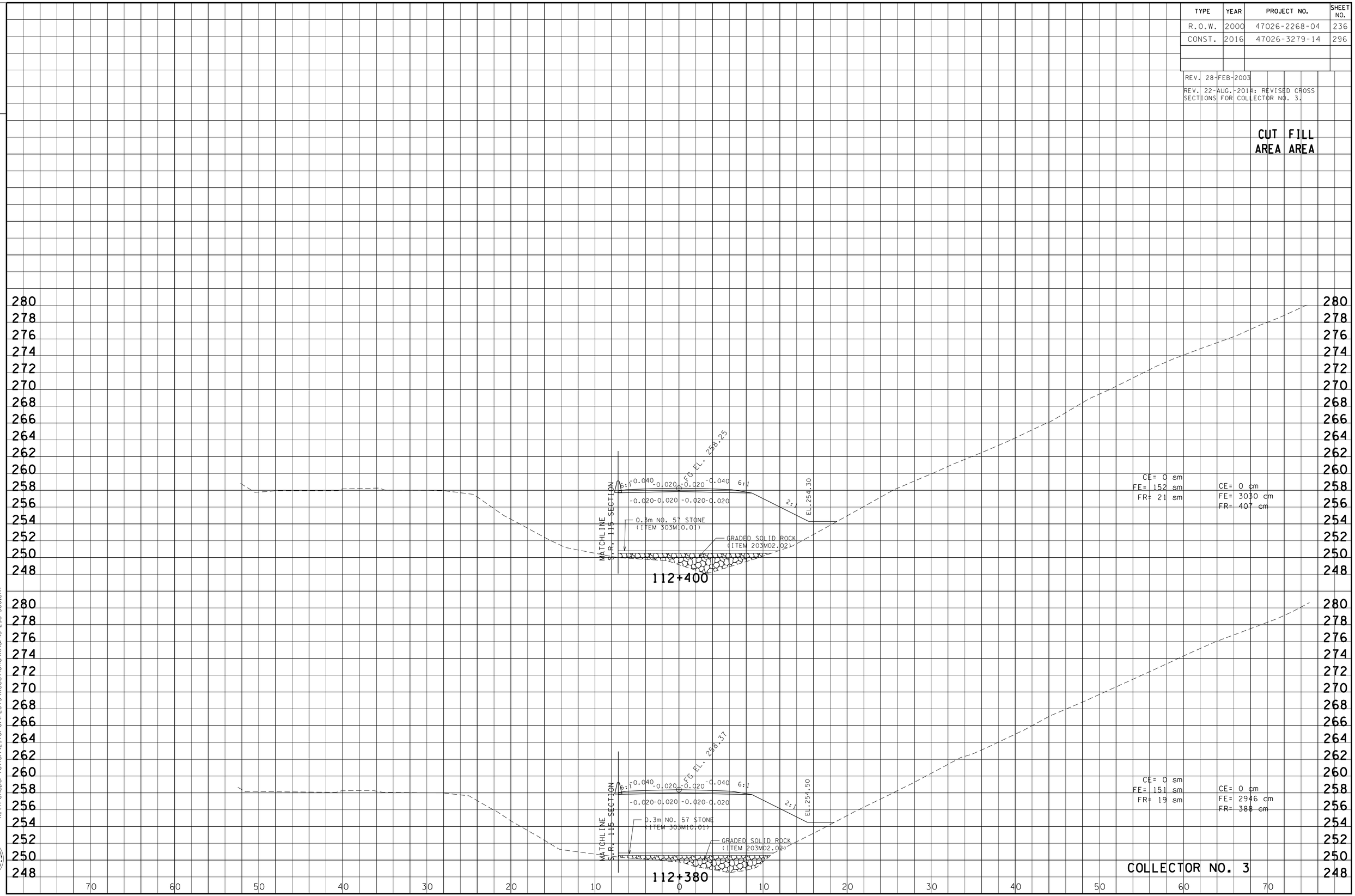
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	236
CONST.	2016	47026-3279-14	296

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.



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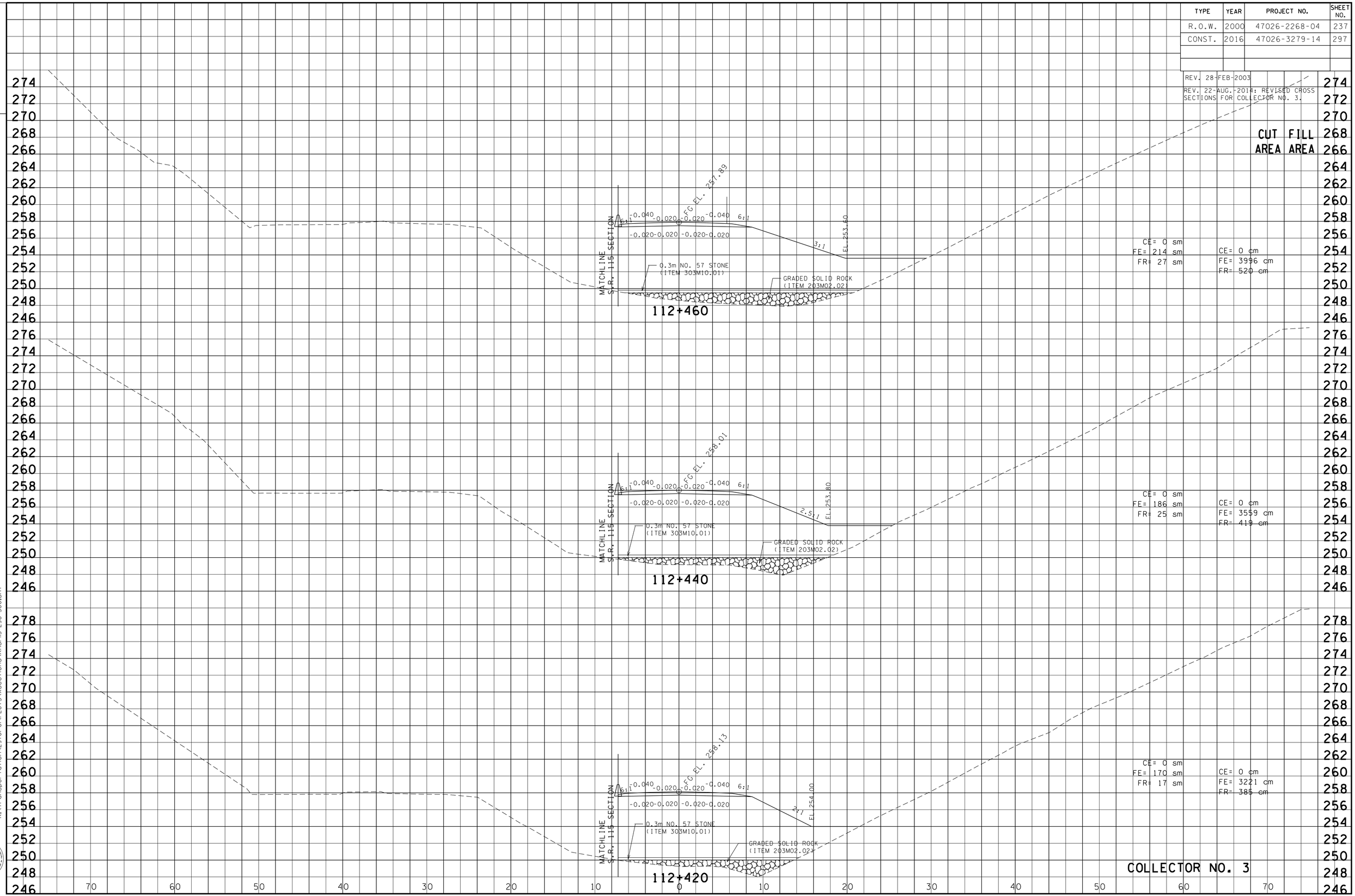
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	237
CONST.	2016	47026-3279-14	297

REV. 28-FEB-2003

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.



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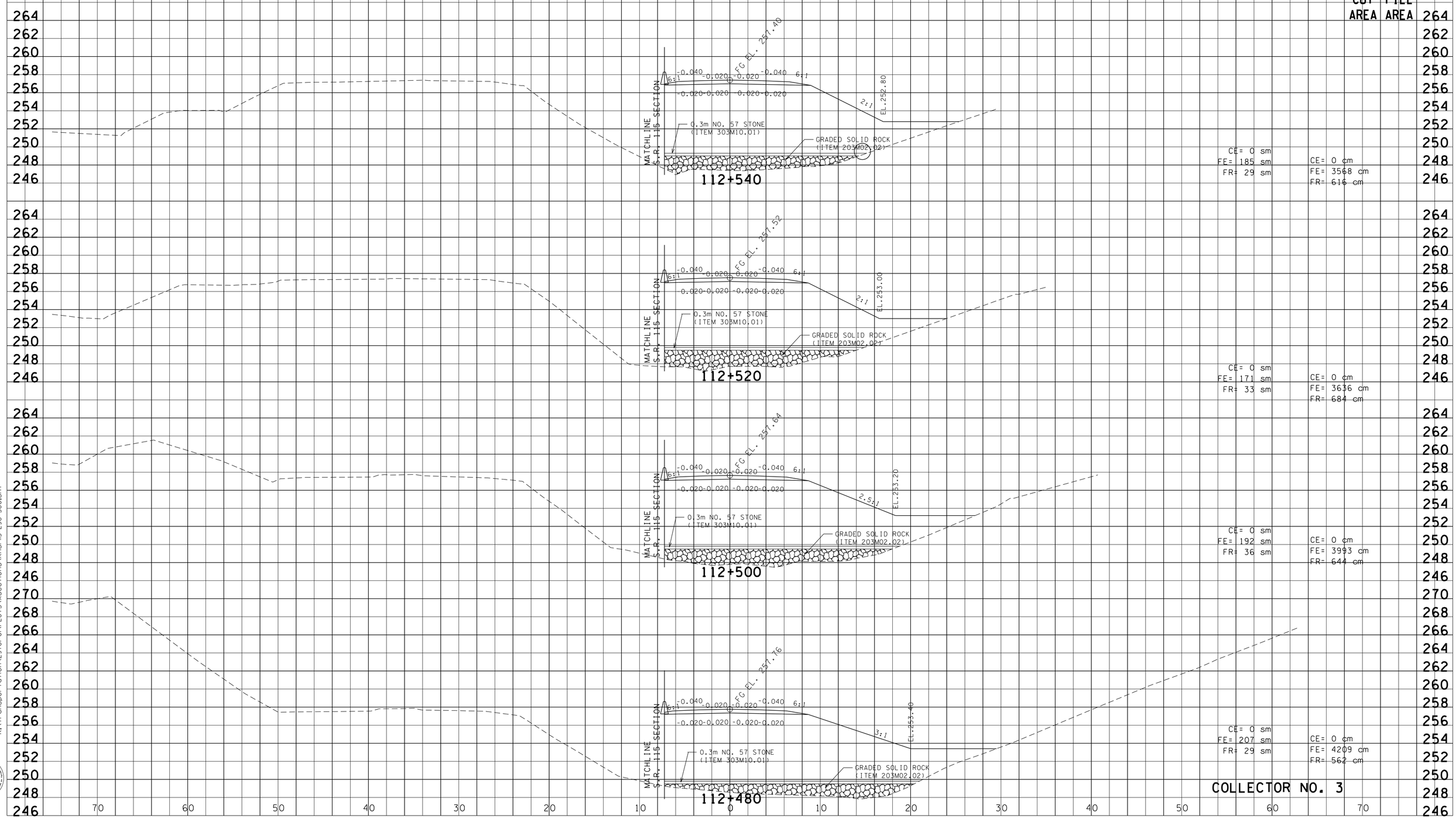
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	238
CONST.	2016	47026-3279-14	298

REV. 28-FEB-2003
REV. 24-SEP-2004: REVISED GRADE OF SPECIAL DITCH RT.

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.



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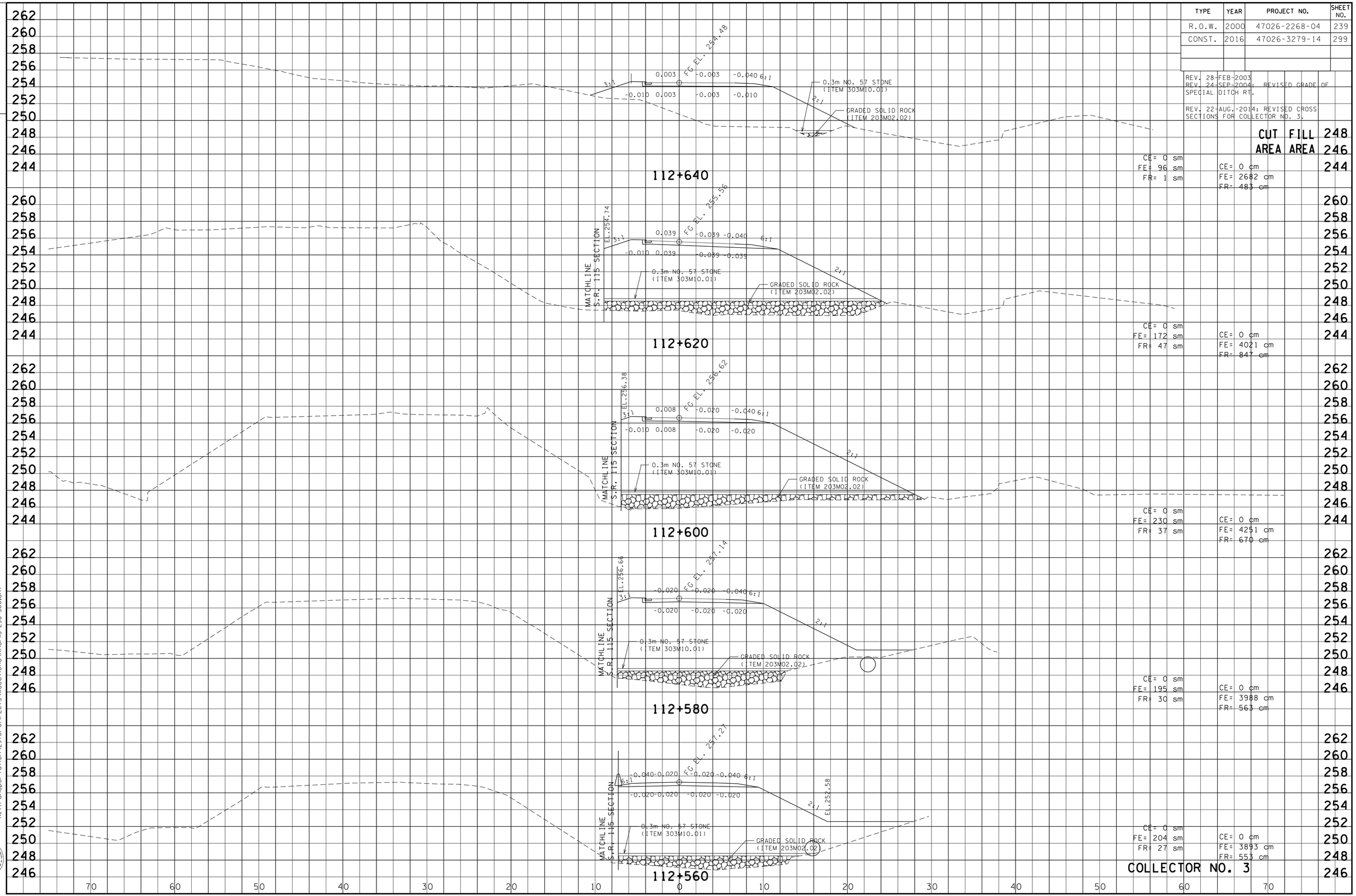
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	239
CONST.	2016	47026-3279-14	299

REV. 28-FEB-2003
REV. 24-SEP-2004: REVISED GRADE OF SPECIAL DITCH RT.

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.



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Survey & Design Division

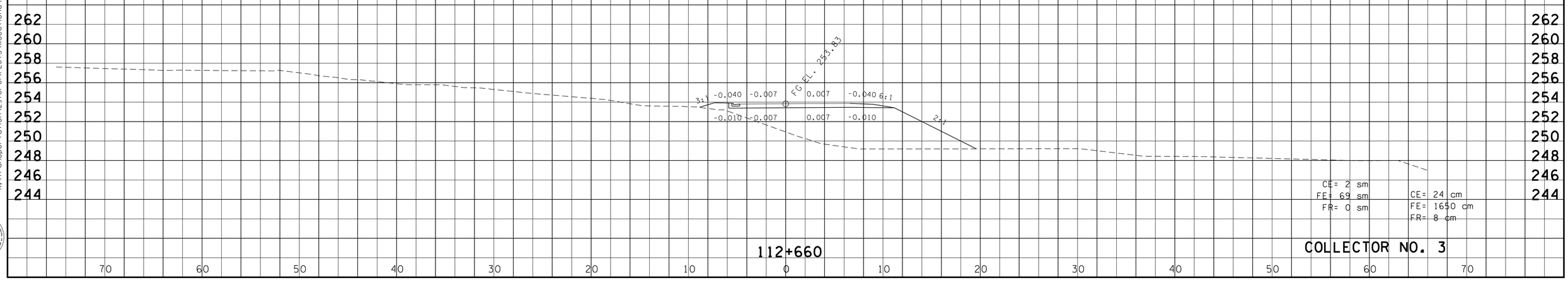
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	240
CONST.	2016	47026-3279-14	300

REV. 28-FEB-2003
REV. 24-SEP-2004: REVISED GRADE OF SPECIAL DITCH RT.

REV. 22-AUG.-2014: REVISED CROSS SECTIONS FOR COLLECTOR NO. 3.

FILE NO.

CUT AREA
FILL AREA



COLLECTOR NO. 3

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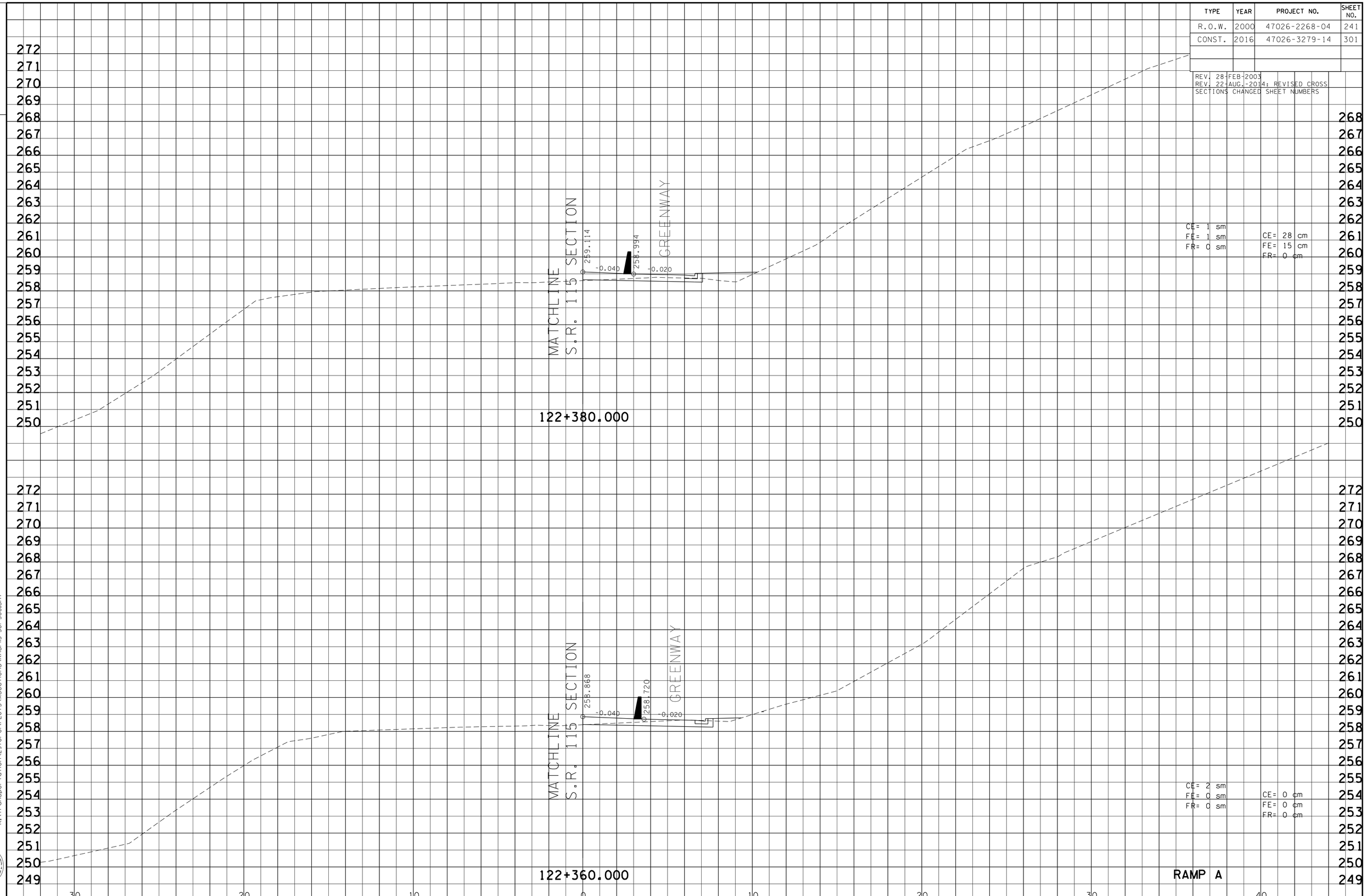
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	241
CONST.	2016	47026-3279-14	301

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.



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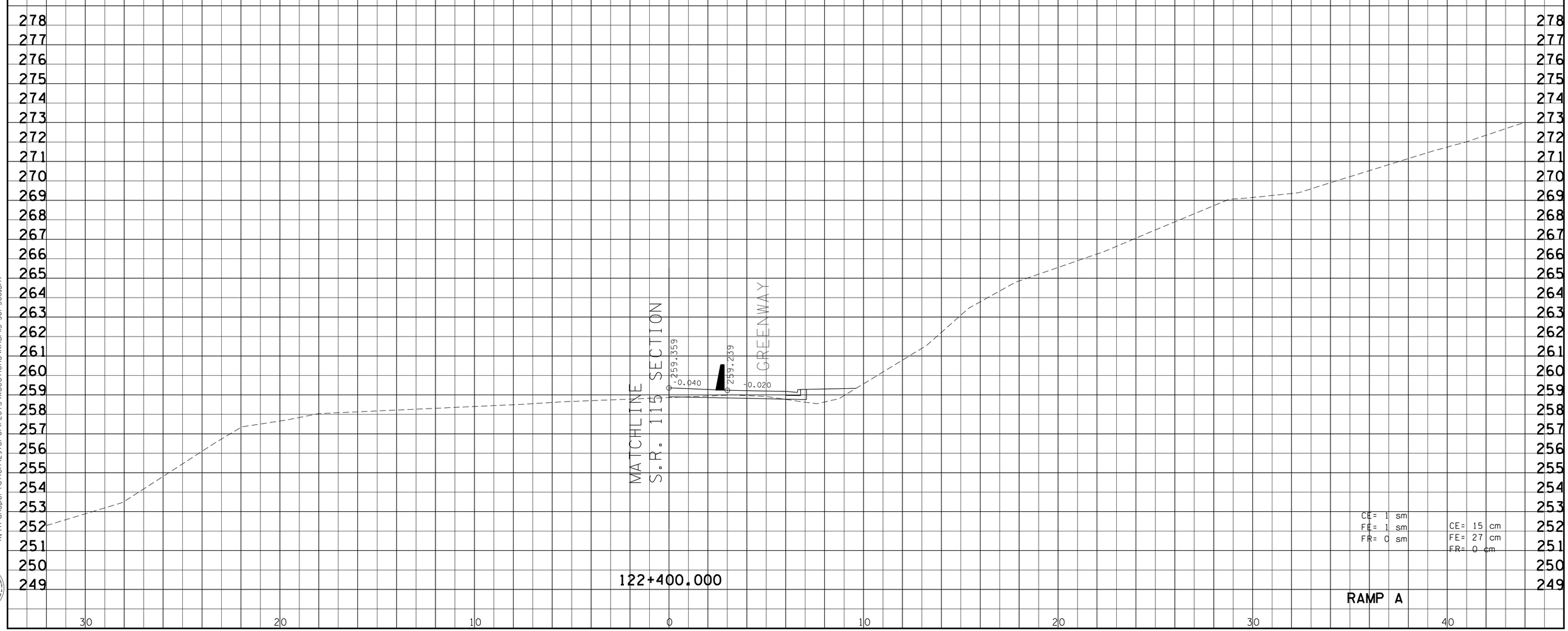
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	242
CONST.	2016	47026-3279-14	302

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.



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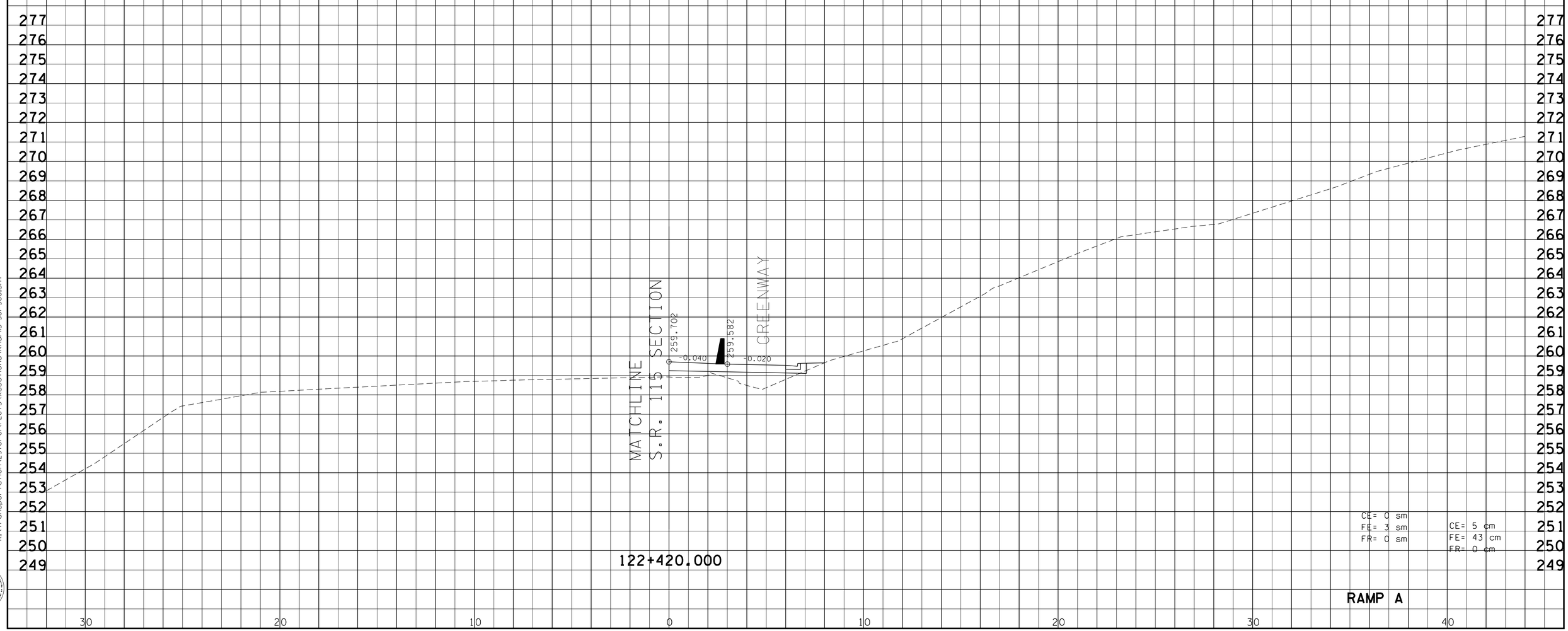
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	243
CONST.	2016	47026-3279-14	303

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.



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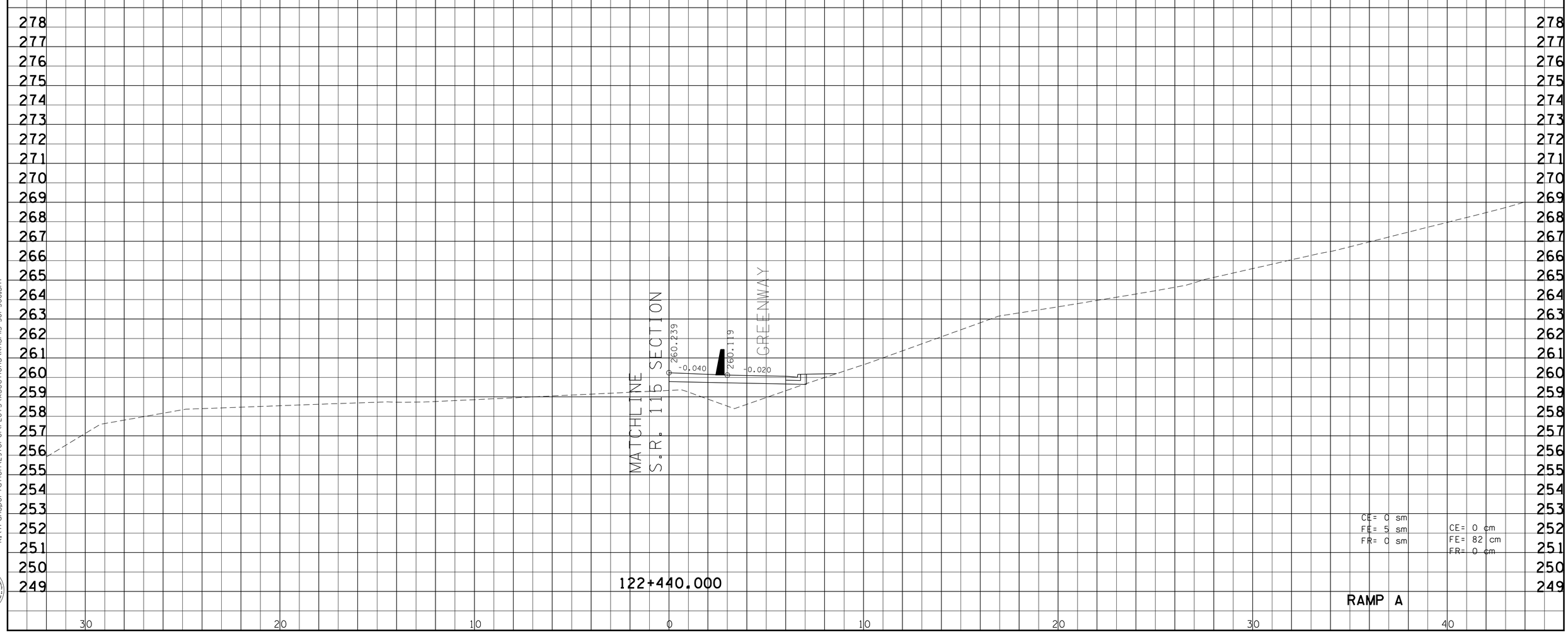
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	244
CONST.	2016	47026-3279-14	304

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.



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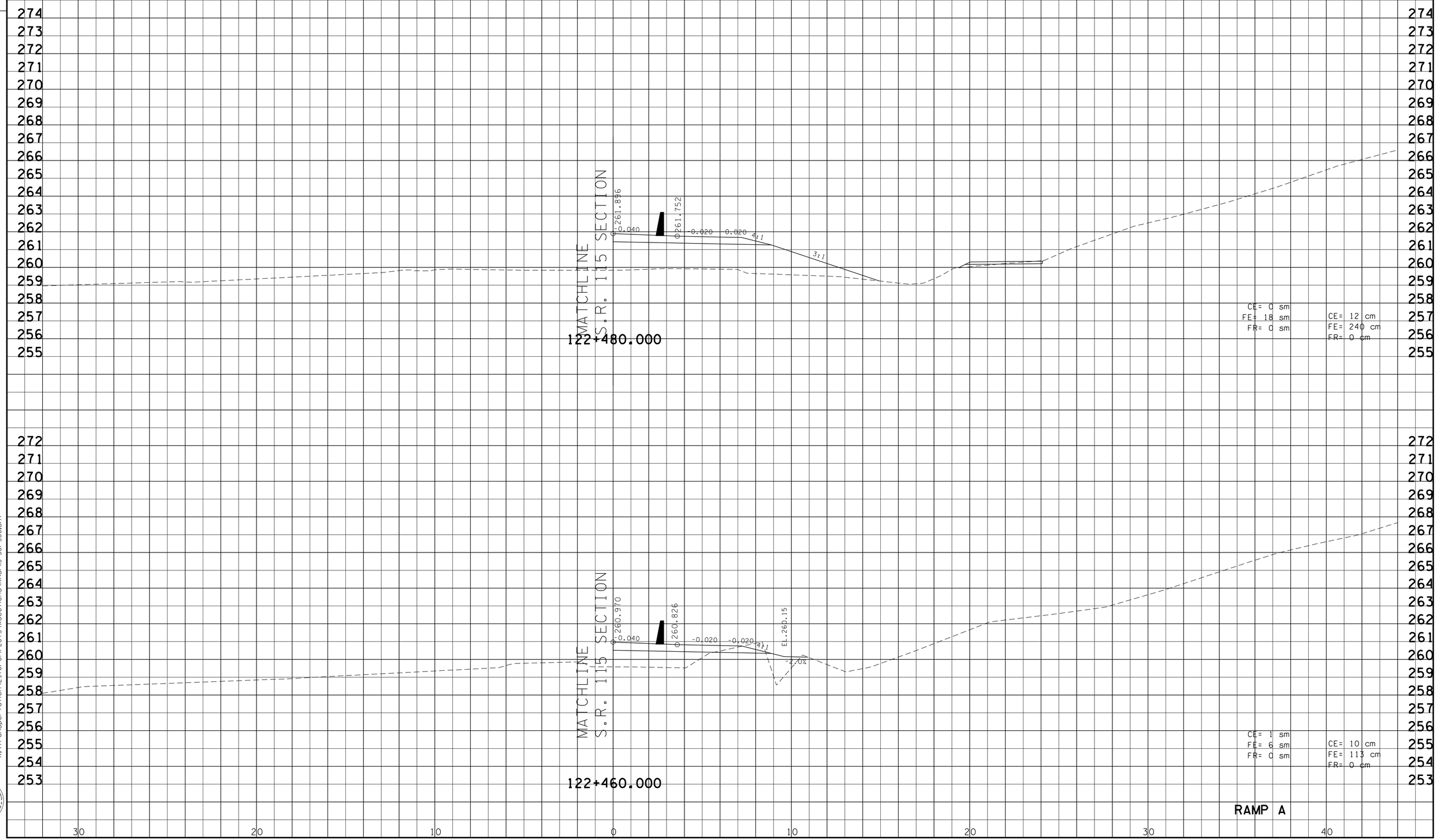
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	245
CONST.	2016	47026-3279-14	305

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.



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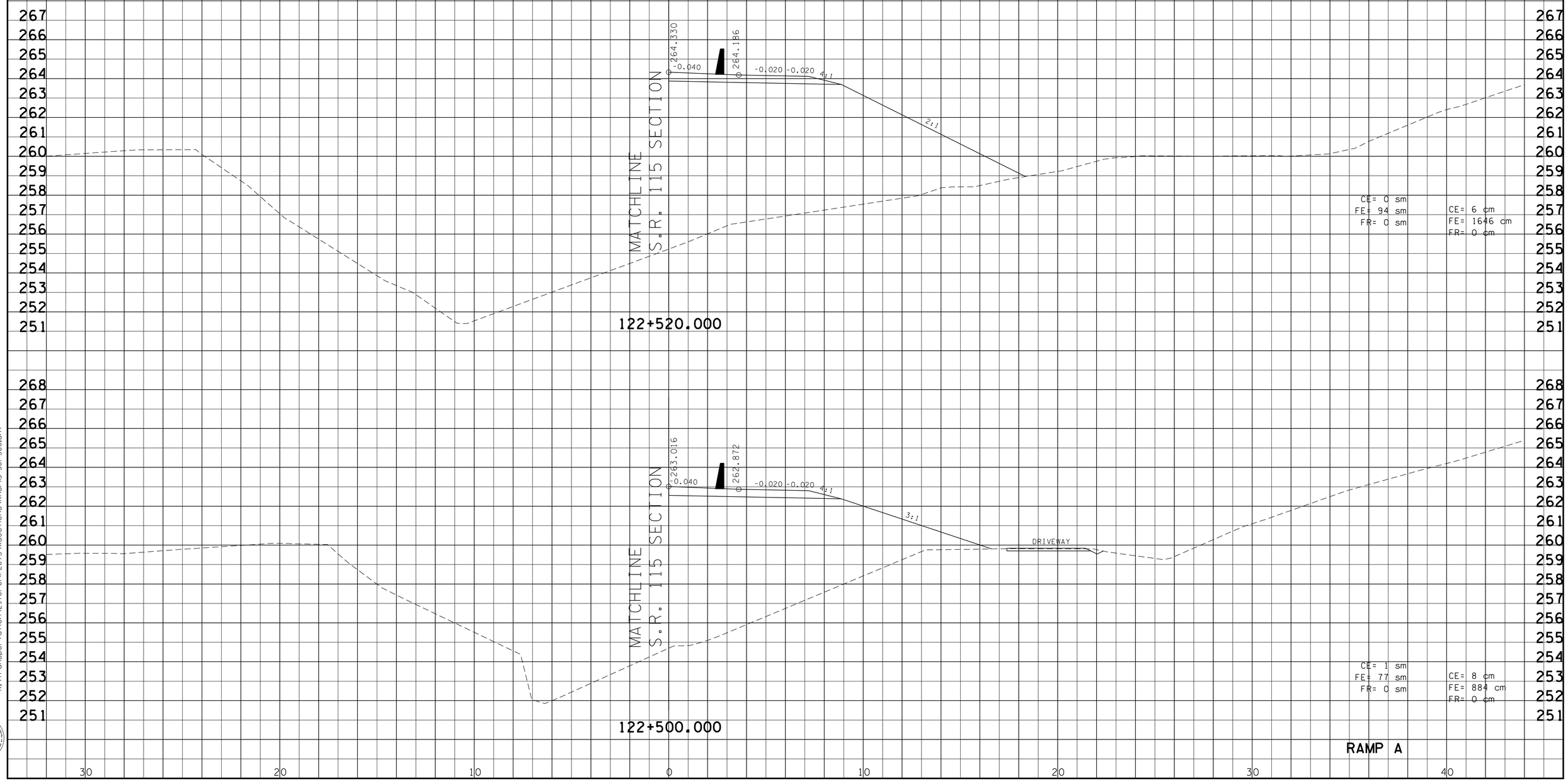
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	246
CONST.	2016	47026-3279-14	306

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.



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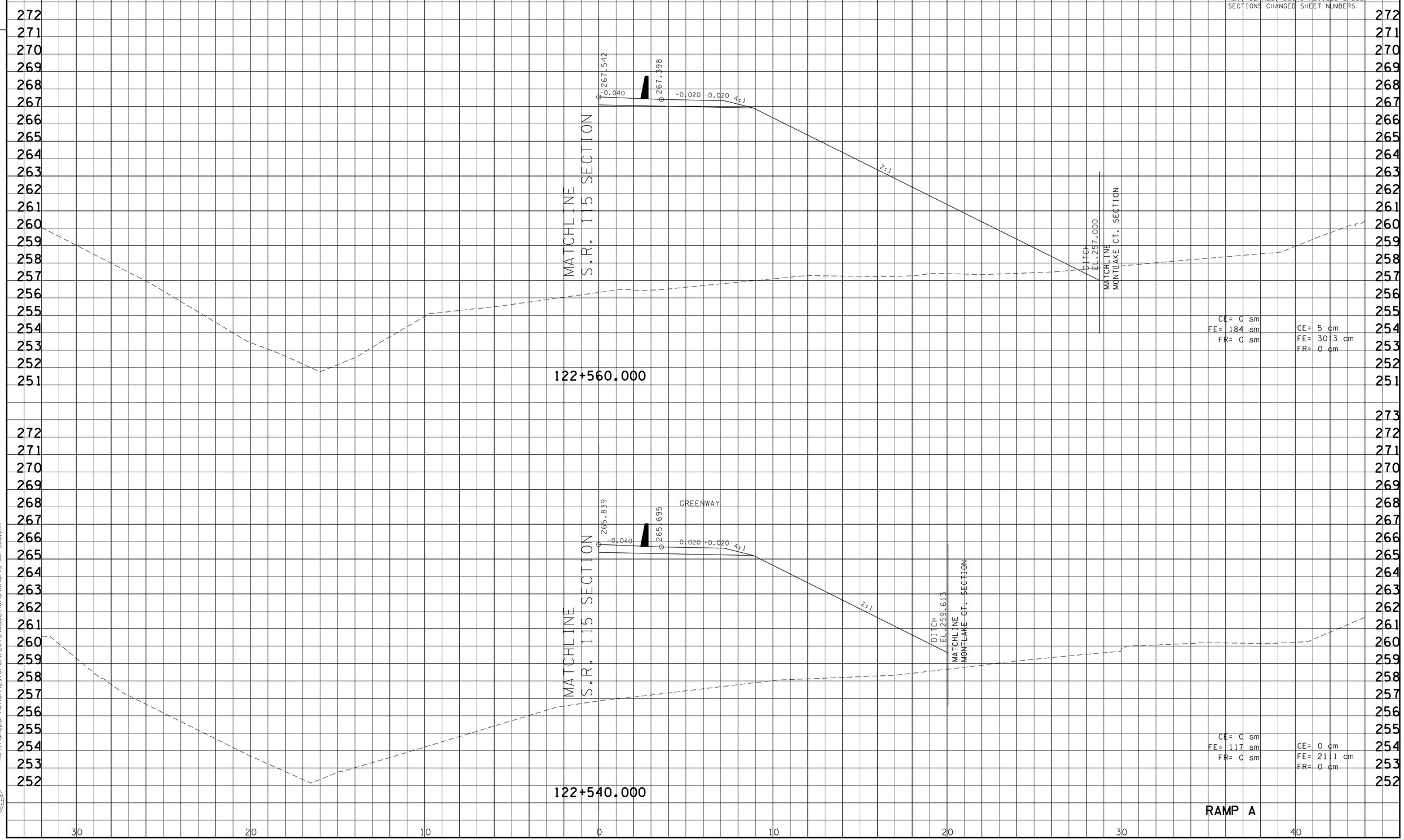
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	247
CONST.	2016	47026-3279-14	307

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.



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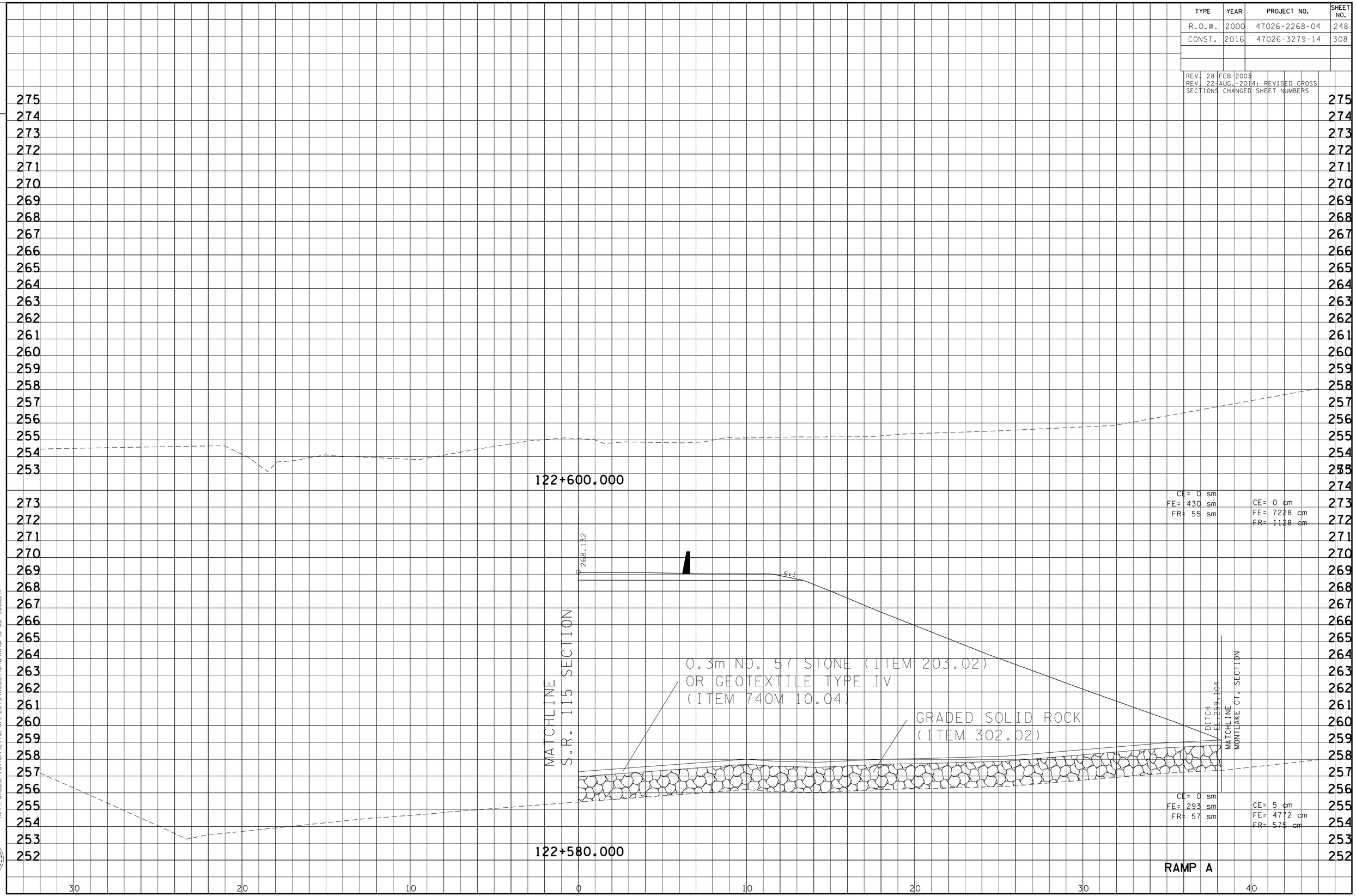
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	248
CONST.	2016	47026-3279-14	308

REV. 28-FEB-2003
REV. 22-AUG.-2014: REVISED CROSS SECTIONS CHANGED SHEET NUMBERS

FILE NO.



9/30/2015
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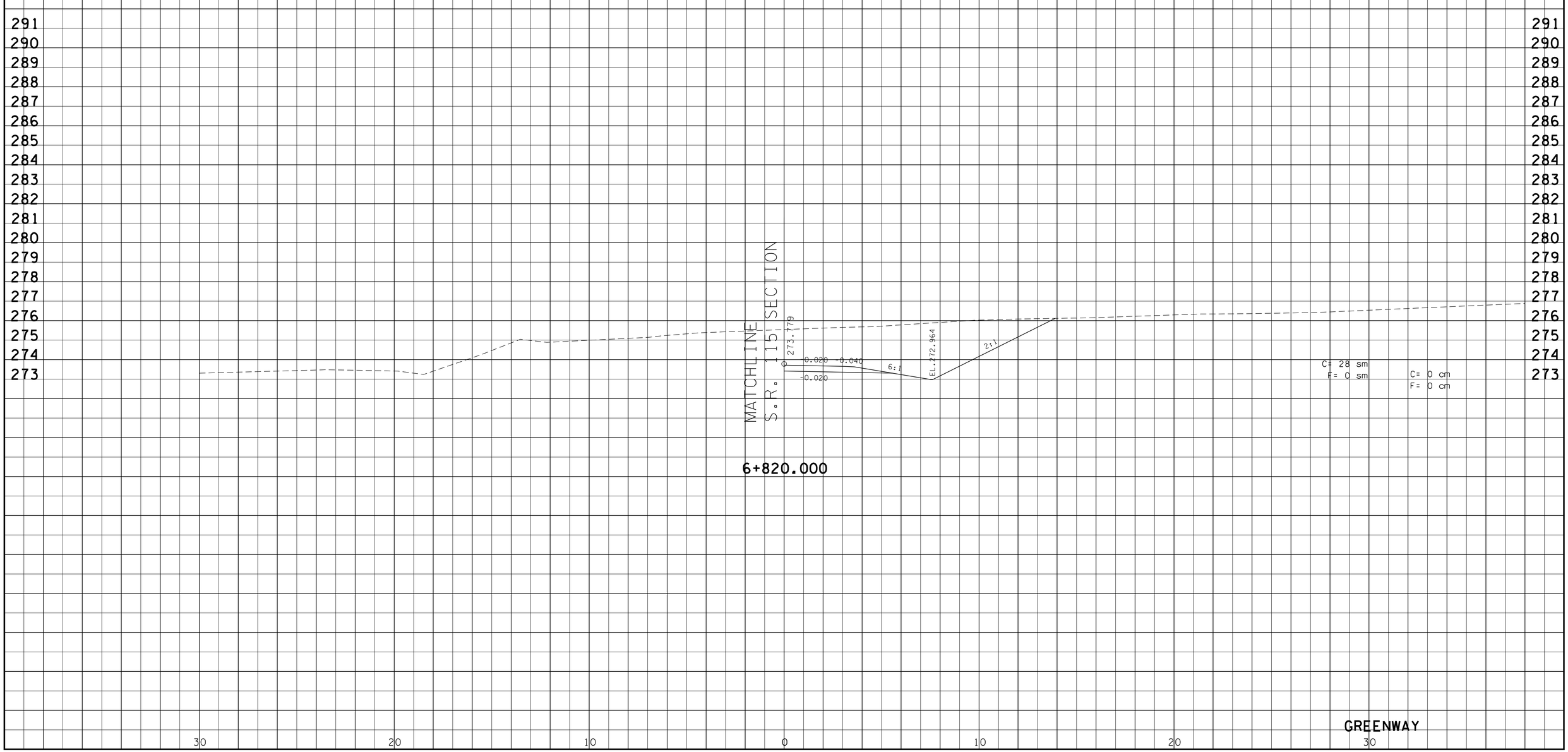
Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	249
CONST.	2016	47026-3279-14	309

REV. 7-NOV-2014: ADDED CROSS SECTIONS FOR GREENWAY.



9/30/2015
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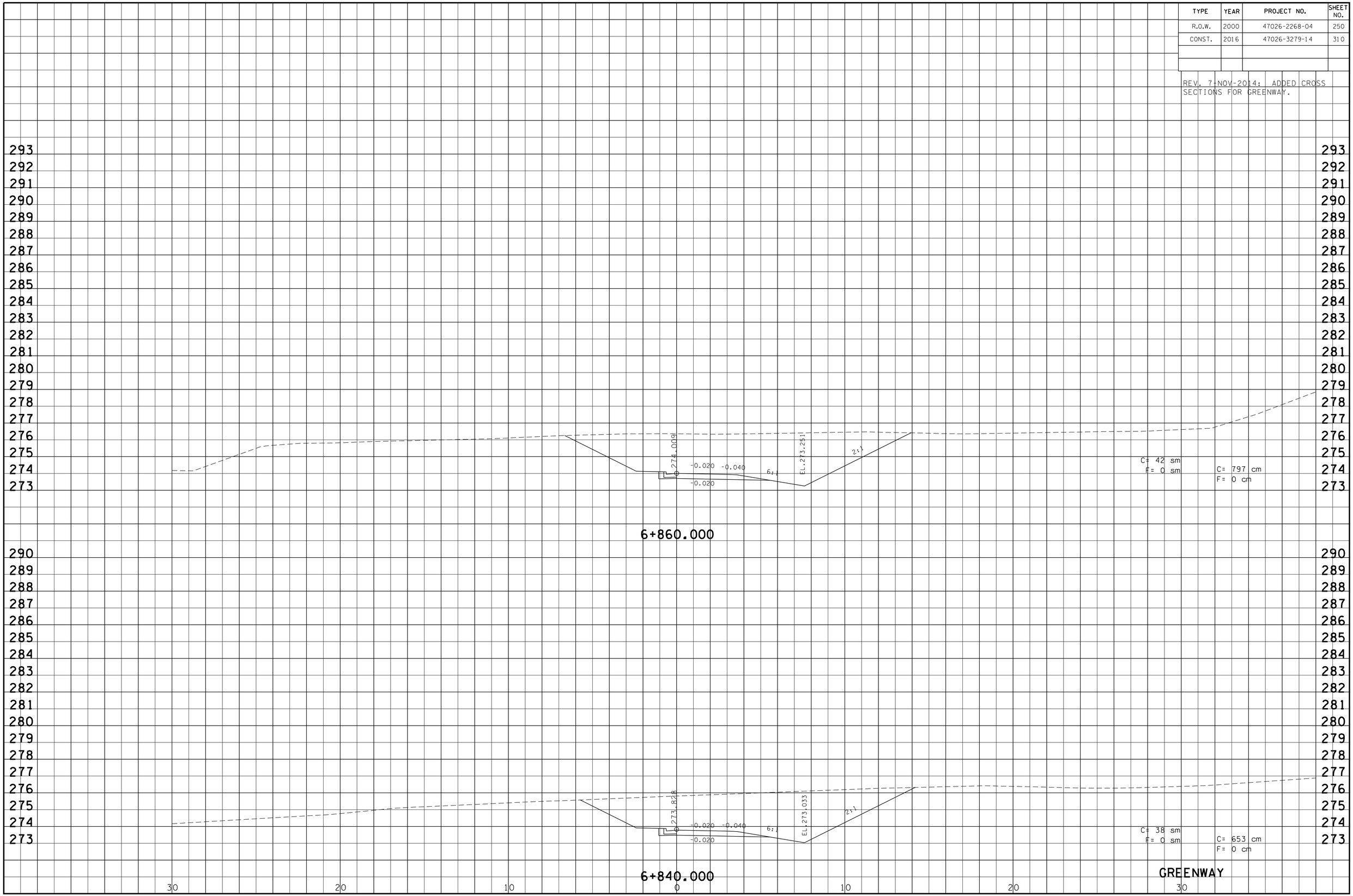
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	250
CONST.	2016	47026-3279-14	310

REV. 7-NOV-2014: ADDED CROSS SECTIONS FOR GREENWAY.



9/30/2015
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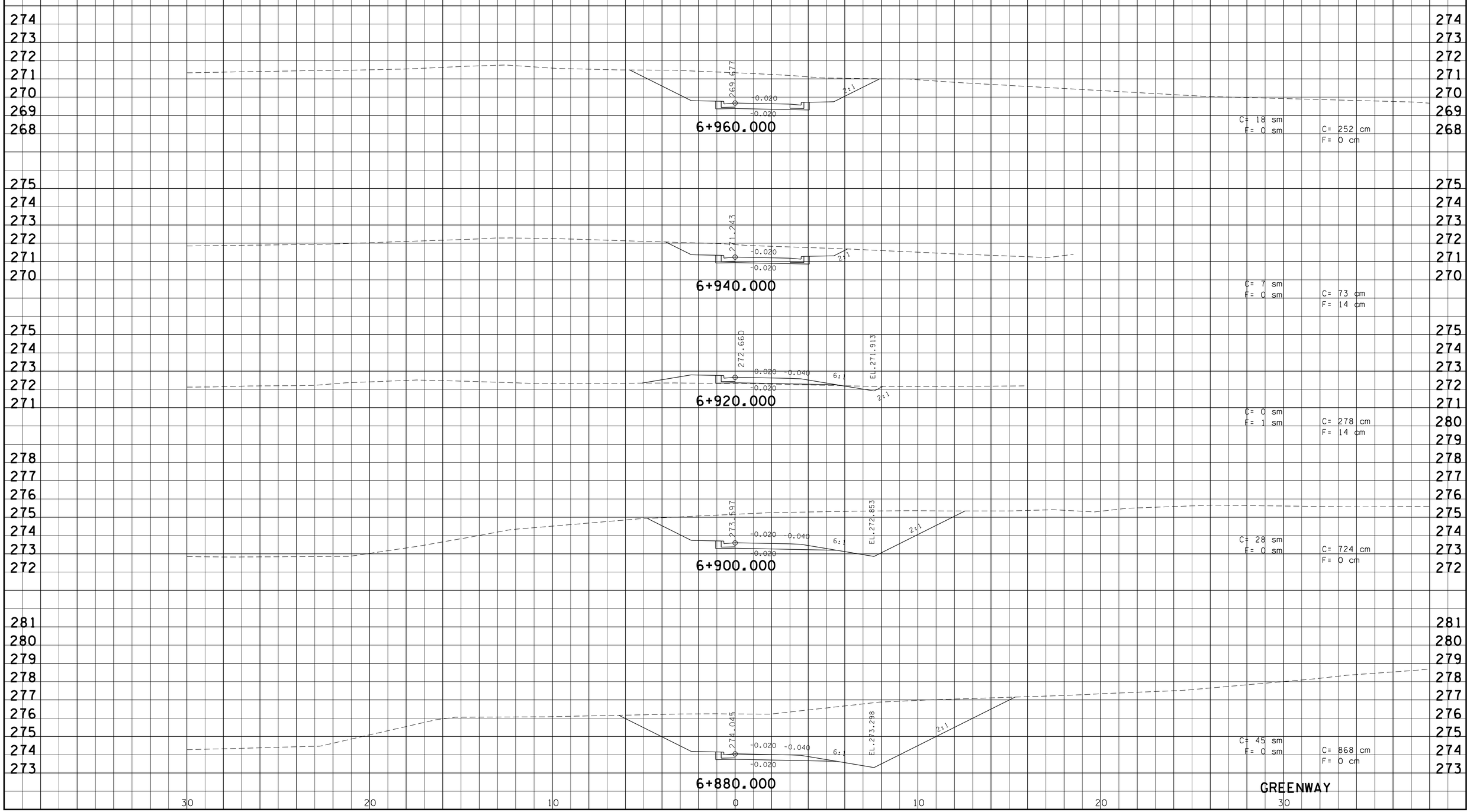
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	251
CONST.	2016	47026-3279-14	311

REV. 7-NOV-2014: ADDED CROSS SECTIONS FOR GREENWAY.



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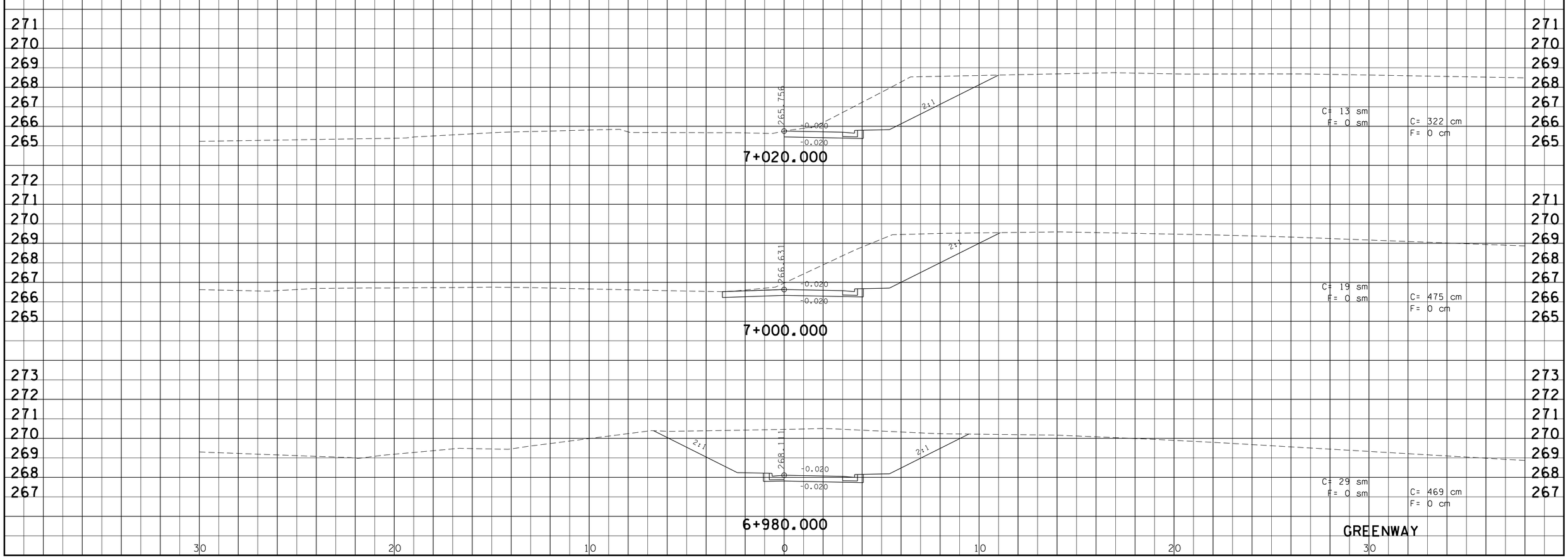
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2000	47026-2268-04	252
CONST.	2016	47026-3279-14	312

REV. 7-NOV-2014: ADDED CROSS SECTIONS FOR GREENWAY.



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