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

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2F	SPECIAL DITCH TYPICAL SECTIONS
2G	RETAINING WALL CONCEPTUAL DRAWING
3-3C	R.O.W. NOTES & ACQUISITION TABLE
3D-3G	PROPERTY MAPS
4-19	PRESENT LAYOUT
4A-19A.....	R.O.W. DETAILS
4B-19B.....	PROPOSED LAYOUT
4C-19C.....	PROPOSED PROFILE
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21-21H.....	PRIVATE DRIVE PROFILES
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23-23G.....	CULVERT CROSS SECTIONS
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

OVERTON COUNTY

S.R. 52 (CORRIDOR J), NEAR OAKLEY-ALLONS ROAD TO SR-111 INTERSECTION

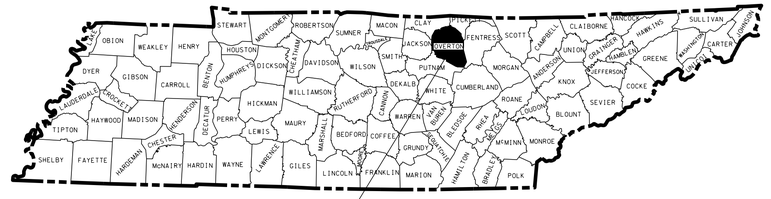
R.O.W.

STATE HIGHWAY NO. 52 F.A.H.S. NO. 52

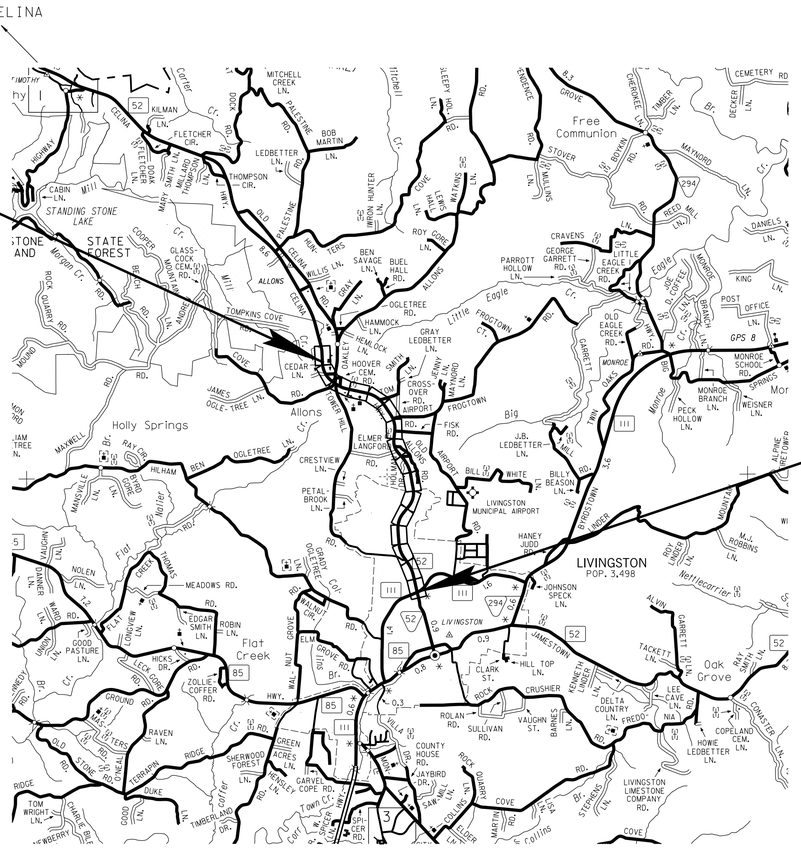
TENN.	YEAR	SHEET NO.
	2012	1
FED. AID PROJ. NO.	APD/NH-52(48)	
STATE PROJ. NO.	67002-2233-64	

REV. 12-07-12: REVISED LINESTYLE FOR ALL FILL SLOPES ON ALL APPLICABLE SHEETS.

REV. 07-15-13: FEDERAL AID PROJECT NUMBER CHANGE PERFORMED ON TITLE SHEET, BUT IS APPLICABLE TO ENTIRE SET OF PLANS.



67002-2233-64
BEGIN PROJ. NO. APD/NH-52(48) R.O.W.
STA. 513+06.40
N 766682.7036
E 2160318.5451



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SCALE: 1"= 5280'

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076

ROW LENGTH 3.624 MILES

NO EXCLUSIONS
NO EQUATIONS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
SHANE M. HESTER
REGISTERED ENGINEER
XVI
AGRICULTURE
OMBRO
NO. 119114
STATE OF TENNESSEE

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

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 MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT ROAD SP. SV. 2 STEPHANIE STEWART

DESIGNER CLAYTON MARKHAM CHECKED BY DELL GALLAGHER

P.E. NO. 67002-1233-64 (DESIGN)

PIN NO. 107351.01

TRAFFIC DATA	
ADT (2013)	5900
ADT (2033)	7040
DHV (2033)	704
D	65 - 35
T (ADT)	10 %
T (DHV)	7 %
V (RURAL)	60 MPH
V (URBAN)	50 MPH

ORIGINAL SURVEY: 05/16/11
SURVEY UPDATE: 10/13/11
06/21/12
08/09/12

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

22-JAN-2015 07:42
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

Index Of Sheets
SEE SHEET IA FOR INDEX

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

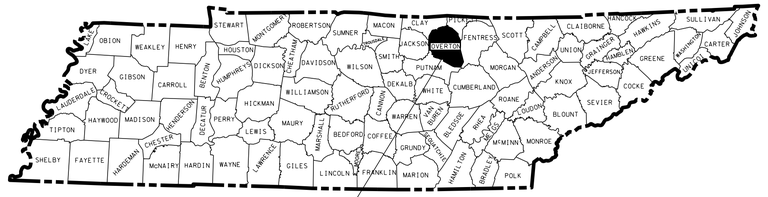
OVERTON COUNTY

S.R. 52 (CORRIDOR J), NEAR OAKLEY-ALLONS ROAD TO SR-111 INTERSECTION
CONSTRUCTION
GRADE, DRAIN & PAVE

STATE HIGHWAY NO. 52 F.A.H.S. NO. 52

NOTE:
YEAR 2015 APPLIES TO ALL SHEETS.

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.	APD/NH-52(48)	
STATE PROJ. NO.	67002-3233-64	
STATE PROJ. NO.	67002-3235-14	



N

TO CELINA

BEGIN PROJ. NO. 67002-3235-14 CONST.
STA. 511+50.00
N 766838.8851
E 2160310.3160

END PROJ. NO. 67002-3235-14 CONST.
STA. 528+11.19 *
N 765464.8887
E 2161075.6975

NOTE:
* STATE PROJECT NUMBER CHANGE AT STA. 528+11.19 APPLIES TO ALL SHEETS.

NO EXCLUSIONS
NO EQUATIONS

67002-3233-64
BEGIN PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19 *
N 765464.8887
E 2161075.6975

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127
E 2166750.8076

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
AGRICULTURE
ENGINEERS
NO. 106423
STATE OF TENNESSEE

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

APPROVED:
JOHN SCHROER, COMMISSIONER

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 C.E. MANAGER 2 Jennifer Lloyd, PE

DESIGNER CLAYTON MARKHAM, PE/ FRANK RAINEAR CHECKED BY WAYNE HALL

P.E. NO. 67002-1233-64 (DESIGN)

PIN NO. 107351.01

TRAFFIC DATA	
ADT (2015)	5900
ADT (2035)	7040
DHV (2035)	704
D	65 - 35
T (ADT)	10 %
T (DHV)	7 %
V (RURAL)	60 MPH
V (URBAN)	50 MPH

ROADWAY LENGTH	3.654 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	3.654 MILES

ORIGINAL SURVEY: 05/16/11
SURVEY UPDATE: 10/13/11
06/21/12
08/09/12
07/02/13

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:
DIVISION ADMINISTRATOR DATE

22-JAN-2015 07:42
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	1A

REV. 5-22-15: UPDATED STD. DWG. DATES.

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ESTIMATED UTILITIES QUANTITIES .... 2B - 2B1
ESTIMATED SIGNAL QUANTITIES 2C
TYPICAL SECTIONS AND PAVING SCHEDULE .... 2D - 2I
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STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX S-1

Note: The letter “O” is not used in sheet numbering.

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
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
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-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A		DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
RD01-TS-2	10-15-02	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
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
RD01-TS-6	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER
RD01-TS-6A	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
DRAINAGE - CULVERTS AND ENDWALL		
D-FLU-1		FLUME DETAILS
D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PB-2	01-29-14	STANDARD DETAILS FOR PLASTIC 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	12-01-14	STRAIGHT CONCRETE ENDWALL
D-PE-5	05-27-01	STANDARD WINGWALLS HORIZONTAL OVAL CONCRETE PIPES
D-PE-9	04-25-90	CONCRETE ENDWALLS TYPE "B" (FOR ROUND & SIDE TAPERED INLETS, PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 AND 4:1 SLOPES)

DWG. NO	REV.	DESCRIPTION
D-PE-9A	10-25-82	GENERAL DIMENSION QUANTITIES ROUND PIPE CONCRETE ENDWALLS TYPE "B" (PIPE SIZES 15" TO 78", ALL SKEWS, 2:1 AND 4:1 SLOPES)
D-PE-9C		BILL OF STEEL (SHEET 1 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR CONCRETE ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" - 78", ALL SKEW, 2:1 SLOPE)
D-PE-9E		BILL OF STEEL (SHEET 3 OF 4) CONCRETE ENDWALLS TYPE "B" (FOR STEEL ROUND AND SIDE TAPERED INLET, PIPE SIZE 15" - 78", ALL SKEWS, 2:1 SLOPE)
D-PE-18A	01-06-15	18” CONCRRETE ENDWALL CROSS DRAIN
D-PE-18B		18” CONCRRETE ENDWALL CROSS DRAIN
D-PE-24A	01-06-15	24” CONCRRETE ENDWALL CROSS DRAIN
D-PE-24B		24” CONCRRETE ENDWALL CROSS DRAIN
D-PE-30A	01-06-15	30” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-30B		30” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36A	06-14-13	36” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36B		36” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42A	06-14-13	42” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42B		42” CONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR “U” ENDWALLSCONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PO-1	05-27-01	STANDARD OVAL & FLAT BASE CONCRETE CULVERT PIPE
D-SEW-1A	06-14-13	SIDE DRAIN CONCRRETE ENDWALL WITH STEEL PIPE GRATE
DRAINAGE-CATCH BASINS AND MANHOLES		
D-CB-12LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN
D-CB-12RB	03-11-14	STANDARD PRECAST 60" AND 72" 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-13RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 13 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
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-28LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 28LP CATCH BASIN (FOR USE WITH 4" MOUNTABLE CURB)
D-CB-28P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 28 CATCH BASIN (FOR USE WITH 4" MOUNTABLE CURB)

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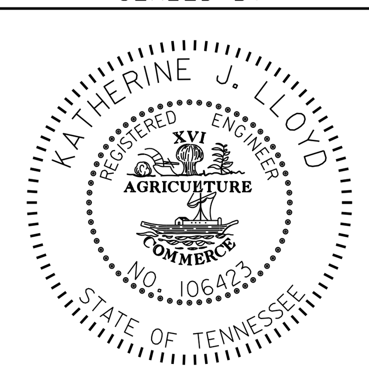

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	1A1

STANDARD ROADWAY DRAWINGS CONT.

DRAINAGE-CATCH BASINS AND MANHOLES CONT.

D-CB-28RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 28 CATCH BASIN (FOR USE WITH 4" MOUNTABLE CURB)
D-CB-28S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 28 CATCH BASIN (FOR USE WITH 4" MOUNTABLE CURB)
D-CB-29P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 29 CATCH BASIN (FOR USE WITH 4" MOUNTABLE CURB)
D-CB-29S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 29 CATCH BASIN (FOR USE WITH 4" MOUNTABLE CURB)
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 BASIN LIDS
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-12C	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & 4" MOUNTABLE INLET DETAILS FOR NOS. 28 & 29 TYPE CATCH BASINS
D-CBB-13	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & NONM0UNTABLE INLET DETAILS FOR NO. 13 TYPE CATCH BASINS
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-RF-1		STANDARD PRECAST RISER

DRAINAGE - NATURAL STREAM DESIGN

D-NSD-7		COCONUT FIBER ROLLS AND LIVE SILTATION
D-NSD-13		LONGITUDINAL STONE TOE AND ARTICULATED CONCRETE MAT

ROADWAY AND PAVEMENT APPURTENANCES

RP-MC-1	02-28-02	STANDARD 4" 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

SAFETY APPURTENANCES AND FENCE

S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		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-RP-2	01-19-99	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
S-GR31-1	12-01-14	W-BEAM GUARDRAIL
S-GR31-2		MEDIAN DIVIDER GUARDRAIL
S-GRS-1		SPECIAL CASE LONG SPAN GUARDRAIL, ONE SPAN OMITTED
S-GRT-2	11-03-14	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
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-GRA-1		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL

TRAFFIC CONTROL APPURTENANCES

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-15A	01-30-15	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED 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
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T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-18	02-14-14	END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) & WORK ZONE SPEED SIGNS
T-S-19	07-19-13	STANDARD MEMBERS BENDAWAY SIGN SUPPORTS STEEL DESIGN
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T-SG-4		SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	12-04-13	CONTROLLER CABINET DETAILS
T-SG-7	11-01-11	SIGNAL HEAD ASSEMBLIES AND PEDESTRIAN PUSH BUTTON SIGNS
T-SG-7A	11-01-11	TYPICAL SIGNAL HEAD PLACEMENT
T-SG-8	12-04-13	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9	12-04-13	DETAILS OF CANTILEVER SIGNAL SUPPORT
T-SG-9A	05-01-14	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	12-04-13	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-11	07-08-14	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	11-01-11	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
T-SG-13	06-01-09	FLASHING BEACON DETAIL
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-31	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (GREATER THAN 40 MPH)
T-WZ-36	04-02-12	LANE CLOSURE ON LOW-VOLUME 2-LANE HIGHWAY
T-WZ-40	04-02-12	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	04-02-12	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-42	04-02-12	CENTER LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS

EROSION PREVENTION AND SEDIMENT CONTROL

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-8	06-10-14	FILTER SOCK
EC-STR-11	08-01-12	CULVERT PROCTECTION TYPE 1
EC-STR-11A	08-01-12	CULVERT PROCTECTION TYPE 2
EC-STR-13	08-01-12	ROCK AND EARTH SEDIMENT EMBANKMENT
EC-STR-21	08-01-12	PERMANENT RIPRAP BASIN ENERGY DISSIPATOR
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-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
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-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-35	08-01-12	FILTER BERMS
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION
EC-STR-37	06-10-14	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-40		CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-45		CATCH BASIN FILTER ASSEMBLY (TYPE 5)

REV. 5-22-15: UPDATED STD. DWG. DATES.

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INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	1A2

STANDARD ROADWAY DRAWINGS CONT.

EROSION PREVENTION AND SEDIMENT CONTROL CONT.

EC-STR-45A		CATCH BASIN FILTER ASSEMBLY (TYPE 5) SLIPCOVER DETAILS
EC-STR-46		CATCH BASIN FILTER ASSEMBLY (TYPE 6)
EC-STR-46A		CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)
EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS
EL-W-2	05-27-01	STANDARD GRAVITY-TYPE RETAINING WALLS

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDEC001	Environmental Division, Ecology	"Due to concerns for the Four-toed Salamander (Hemidactylium scutatum), TWRA and TDOT biologists will complete a salamander sweep of areas with suitable habitat prior to construction activities."	Entire project length
CNST001	Construction	The Livingston Academy school access point (Melvin Johnson Drive) associated with Tract 209 is located just north of the intersection of SR-52 and SR-111. This access point will be closed for approximately one month during construction of the project. TDOT will coordinate with the Overton County Board of Education, Overton County, and the City of Livingston prior to implementation of the project.	STA. 686+00

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INDEX AND STANDARD DRAWINGS AND PROJECT COMMITMENTS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	67002-3233-64 QUANTITY	67002-3235-14 QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	0.9	0.1
(17)	201-01	CLEARING AND GRUBBING	LS	0.9	0.1
	202-02.01	REMOVAL OF PIPE 24", SR-52 - 514+95.41)	L.F.		98
	202-02.02	REMOVAL OF PIPE (15", WEST CEDAR LN. - 10+10.61)	L.F.		58
	202-02.03	REMOVAL OF PIPE (12", EAST CEDAR LN. 22+02.48)	L.F.		72
	202-02.04	REMOVAL OF PIPE (24", SR-52 - 523+41.03)	L.F.		85
	202-02.05	REMOVAL OF PIPE (24", SR-52 - 527+42.92)	L.F.		75
	202-02.06	REMOVAL OF PIPE (15", TOWER HILL RD. - 50+49.28)	L.F.	50	
	202-02.07	REMOVAL OF PIPE (15", HOOVER CEMETARY RD. - 61+55.09)	L.F.	29	
	202-02.08	REMOVAL OF PIPE (15", SR-52 - 534+31.99)	L.F.	94	
	202-02.09	REMOVAL OF PIPE (18", SR-52 - 539+31.85)	L.F.	81	
	202-02.10	REMOVAL OF PIPE (48", SR-52 - 558+05.70)	L.F.	130	
	202-02.11	REMOVAL OF PIPE (42", SR-52 - 558+05.70)	L.F.	40	
	202-02.12	REMOVAL OF PIPE (24", SR-52 - 561+41.81)	L.F.	98	
	202-02.13	REMOVAL OF PIPE (18", TOM SMITH RD. - 72+17.21)	L.F.	55	
	202-02.14	REMOVAL OF PIPE (18", SR-52 - 573+53.84)	L.F.	119	
	202-02.15	REMOVAL OF PIPE (15", FISK RD. - 91+30.38)	L.F.	27	
	202-02.17	REMOVAL OF PIPE (18", SR-52 - 593+07.66)	L.F.	93	
	202-02.18	REMOVAL OF PIPE (18", OLD ALLONS RD. - 103+56.13)	L.F.	76	
	202-02.19	REMOVAL OF PIPE (15", ELMER LANGFORD RD. - 110+46.06)	L.F.	78	
	202-02.20	REMOVAL OF PIPE (18", OLD ALLONS RD. 2 - 121+48.22)	L.F.	137	
	202-02.21	REMOVAL OF PIPE (24", SR-52 - 617+57.13)	L.F.	199	
	202-02.22	REMOVAL OF PIPE (24", SR-52 - 622+95.08)	L.F.	121	
	202-02.23	REMOVAL OF PIPE (36", SR-52 - 663+11.13)	L.F.	130	
	202-02.24	REMOVAL OF PIPE (18", SR-52 - 664+59.20)	L.F.	135	
	202-02.25	REMOVAL OF PIPE (24", SR-52 - 667+92.78)	L.F.	143	
	202-02.26	REMOVAL OF PIPE (24", ALLRED RD. - 202+33.89)	L.F.	79	
	202-02.27	REMOVAL OF PIPE (15", HIDDEN VALLEY GOLF & CC LN. - 162+85.87)	L.F.	47	
	202-02.28	REMOVAL OF PIPE (15", HIDDEN VALLEY GOLF & CC LN. - 164+02.24)	L.F.	31	
	202-02.29	REMOVAL OF PIPE (15", TOWER HILL RD. 2 - 170+45.04)	L.F.	48	
	202-02.30	REMOVAL OF PIPE (24", SR-52 - 680+38.19)	L.F.	90	
	202-02.31	REMOVAL OF PIPE (18", SR-52 - 699+87.49)	L.F.	103	
(1)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	387733	19773
	203-01.11	PRESPLITTING OF ROCK EXCAVATION	S.Y.	9200	
(37)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	125000	
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	15607	101
(49)	203-06	WATER	M.G.	2195	244
(18)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	65	
(3)	209-01.31	TEMPORARY MULCH FILTER BERM	C.Y.	3100	
(3)	209-02.03	8" TEMPORARY SLOPE DRAIN	L.F.	206	109
(3)	209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	108	112
(3)	209-02.06	15" TEMPORARY SLOPE DRAIN	L.F.	34	84
(3)	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	492	535
(3)	209-03.23	FILTER SOCK (24 INCH)	L.F.	3352	
(3),(36)	209-03.31	STREAM MITIGATION-COCONUT FIBER ROLLS	L.F.	455	830
(3),(36)	209-03.47	STREAM MITIGATION - LONGITUDINAL STONE TOE (DESCRIP)	C.Y.	6	
(3)	209-05	SEDIMENT REMOVAL	C.Y.	540	60
(3)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	11750	2850
(3)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	10475	775
(3)	209-08.07	ROCK CHECK DAM PER	EACH	960	12
(3)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	152	17
(3)	209-08.09	FILTER SOCK CHECK DAM	EACH	254	16
(44)(3)	209-09.01	SANDBAGS	BAG	350	150
(3)	209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	14	2

SEE SHEET 2A1 FOR FOOTNOTES

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	67002-3233-64 QUANTITY	67002-3235-14 QUANTITY
(3)	209-09.40	CURB INLET PROTECTION (TYPE 1)	EACH	3	1
(3)	209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	21	
(3)	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	2	
(46)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	500	
(3)	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	5	
(3)	209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	6	
(3)	209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	2	
(3)	209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	8	
(3)	209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	4	
(3)	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	375	675
(3)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	250	
(29)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	136430	8570
(26)	303-01.03	GRANULAR BACKFILL (RETAINING WALLS)	TON	164	
(3)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	63	7
(27)	303-10.03	MINERAL AGGREGATE (SIZE 68)	TON	454	
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	24934	1915
(30)	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	21717	1290
(31)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	380	21
(32)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	1113	80
(34)	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	114	8
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	3332	315
(33)	411-01.10	ACS MIX(PG64-22) GRADING D	TON	11849	650
	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	3.9	0.7
(50)	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	5400	600
(28)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	42	
(39)	604-02.41	ENERGY DISSIPATER (USBR TYPE VI IMPACT BASIN)	EACH	1	
	604-07.01	RETAINING WALL (SR-52 RT. STA. 696+00.00 TO STA. 698+75.00)	S.F.	3285	
(6)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	2819	191
	607-03.03	18" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	56	
(7)	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	650	394
	607-05.06	24" PIPE CULVERT (JACKED-IN-PLACE)	L.F.	217	
(8)	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1710	28
(43)	607-06.04	30" CONCRETE PIPE CULVERT (CLASS V)	L.F.	380	
(9)	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	598	
	607-07.03	36" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	58	
	607-08.05	42" CONCRETE PIPE CULVERT (CLASS IV) JACKED-IN-PLACE	L.F.	143	
(10)	607-16.04	38"X 24" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	74	50
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	951	95
	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	914	56
	607-39.04	30" PIPE CULVERT (SIDE DRAIN)	L.F.	174	28
	607-39.05	36" PIPE CULVERT (SIDE DRAIN)	L.F.	60	
	611-01.07	MANHOLES, > 24' - 28' DEPTH	EACH	1	
	611-01.08	MANHOLES, > 28' - 32' DEPTH	EACH	1	
(11)	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	7	9
(12)	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	844	175
	611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	2	
	611-07.32	24IN ENDWALL (SIDE DRAIN)	EACH	2	
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	12	2
	611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	1	
	611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	1	
	611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	3	2
	611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	1	
	611-07.59	24IN ENDWALL (CROSS DRAIN) 6:1	EACH	1	2
	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	3	
	611-07.61	30IN ENDWALL (CROSS DRAIN) 4:1	EACH	2	
	611-07.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH	3	
	611-07.66	42IN ENDWALL (CROSS DRAIN) 3:1	EACH	2	

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

SHEET 1 OF 3

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	67002-3233-64 QUANTITY	67002-3235-14 QUANTITY
	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	2	
	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	10	
	611-13.02	CATCH BASINS, TYPE 13, > 4' - 8' DEPTH	EACH	2	
	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	5	
	611-28.01	CATCH BASINS, TYPE 28, 0' - 4' DEPTH	EACH	3	
	611-28.02	CATCH BASINS, TYPE 28, > 4' - 8' DEPTH	EACH	2	
	611-28.03	CATCH BASINS, TYPE 28, > 8' - 12' DEPTH	EACH	1	
	611-28.05	CATCH BASINS, TYPE 28, > 16' - 20' DEPTH	EACH	1	
	611-29.02	CATCH BASINS, TYPE 29, > 4' - 8' DEPTH	EACH	1	
	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	185	
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	421	
(23)	703-02	CEMENT CONCRETE DITCH PAVING (REINFORCED)	C.Y.	8	
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	9181	
	705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	2	
	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	6	
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	14	
(4)	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	13	2
	705-11.03	SINGLE GUARDRAIL (TYPE 2) (POWDER COATED)	L.F.	407	
	705-11.13	GUARDRAIL TERMINAL (TYPE 21)(POWDER COATED)	EACH	1	
	706-01	GUARDRAIL REMOVED	L.F.	8660	
	706-10.26	ROUNDED END ELEMENT	EACH	3	
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	4800	2200
(22)	707-10.01	ROCKFALL FENCE (TYPE I)	L.F.	350	
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	96	17
(52)(3)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	600	70
(3),(13)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	3493	
(3),(14)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	8751	40
(15)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	6823	276
	712-01	TRAFFIC CONTROL	LS	0.9	0.1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	8375	125
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	500	150
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	18	6
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	25	20
	712-06	SIGNS (CONSTRUCTION)	S.F.	1651	163
(2)	712-06.01	VERTICAL PANELS	S.F.	490	10
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	108	36
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	2500	
	713-02.14	FLEXIBLE DELINEATOR (WHITE)	EACH		10
	713-11.01	"U" SECTION STEEL POSTS	LB.	561	
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	2204	
(47)	713-11.21	P POST SLIP BASE	EACH	3	
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	369	
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	336	
(40)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	0.9	0.1
(48)	713-15.02	REMOVAL & RELOCATION OF SIGN & SUPPORT	EACH	2	
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2	
(51)	713-16.35	SIGNS (DO NOT MOW)	EACH	13	
	716-01.22	SNWPLWBLE PVMT MRKRS (MONO-DIR)(1 COLOR)	EACH	538	16
	716-01.21	SNWPLWBLE PVMT MRKRS (BI-DIR)(1 COLOR)	EACH	507	100
(24)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	17	17
(24)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	493	32
(24)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	64	3
(24)	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	220	
(24)	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	2	
(24)	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	4	
(24)	716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH		2
(21)	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	31	4
(25)	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	11400	200
(25)	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	900	100
(25)	716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH	10	
(25)	716-05.09	PAINTED PAVEMENT MARKING(STRAIGHT-TURN ARROW)	EACH	4	
(25)	716-05.11	PAINTED PAVEMENT MARKING(STRAIGHT ARROW)	EACH	4	

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	67002-3233-64 QUANTITY	67002-3235-14 QUANTITY
	716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	15.7	1.8
	716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	350	
	716-12.04	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN DOTTED LINE)	L.F.	200	
	717-01	MOBILIZATION	LS	0.9	0.1
(41)	730-01.08	SCHOOL SPEED LIMIT FLASHING SIGNAL INSTALLED	EACH	2	
(42)	730-23.48	CANTILEVER SIGNAL SUPPORT (1 ARM @ 20')	EACH	2	
(3),(16)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	9261	400
	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	39500	
(3)	740-11.05	TEMPORARY SEDIMENT TUBE 24IN (EROSION CONTROL)	L.F.	13880	120
(45)(3)	801-01	SEEDING (WITH MULCH)	UNIT	335	20
(3),(20)	801-02	SEEDING (WITHOUT MULCH)	UNIT	237	18
(3),(19)	801-02.01	CROWN VETCH MIXTURE (WITHOUT MULCH)	UNIT	610	
(3)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	3290	210
(5)	801-03	WATER (SEEDING & SODDING)	M.G.	1480	20
(36)	802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	EACH	50	33
(36)	802-02.31	CUTTINGS: SALIX SERICEA (18IN-24IN)	EACH	50	33
(36)	802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	EACH	52	35
(36)	802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	EACH	52	35
(36)	802-02.34	CUTTINGS: SALIX INTERIOR (18IN-24IN)	EACH	50	73
(36)	802-02.35	CUTTINGS: CEPHALANTHUS OCCIDENTALIS (18IN-24IN)	EACH	50	73
(36)	802-11.04	ACER SACCHARUM (SUGAR MAPLE 2-5FT CNTNR GRWN)	EACH	2	22
(36)	802-11.11	CERCIS CANADENSIS (REDBUD 2-5FT CNTNR GRWN)	EACH	25	20
(36)	802-11.12	CORNUS FLORIDA (FLOWERING DOGWOOD 2-5FT CNTNR GRWN)	EACH	25	20
(36)	802-11.16	FRAXINUS PENNSYLVANICA (GREEN ASH 2-5FT CNTNR GRWN)	EACH	2	2
(36)	802-11.26	PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN)	EACH	2	2
(36)	802-11.40	SALIX NIGRA (BLACK WILLOW 2-5FT CNTNR GRWN)	EACH	2	2
(36)	802-11.44	ULMUS AMERICANA (AMERICAN ELM 2-5FT CNTNR GRWN)	EACH	2	2
(36)	802-11.62	CORNUS ALTERNIFOLIA (ALTERNATE LEAF DGWOOD 2-5FT CNTNR GRWN)	EACH	25	
(36)	802-11.66	PRUNUS ANGUSTIFOLIA (CHICKASAW PLUM 2-5FT CNTNR GRWN)	EACH	25	20
(36)	802-12.03	ACER SACCHARINUM (SILVER MAPLE SEEDLNG B.R.)	EACH	2	2
(36)	802-12.06	ASIMINA TRILOBA (PAWPAW SEEDLNG B.R.)	EACH		20
(36)	802-12.16	FRAXINUS PENNSYLVANICA (GREEN ASH SEEDLNG B.R.)	EACH	2	2
(36)	802-12.40	SALIX NIGRA (BLACK WILLOW SEEDLNG B.R.)	EACH	2	2
(36)	802-12.65	MALUS ANGUSTIFOLIA (SOUTHERN CRABAPPLE SEEDLING B.R.)	EACH	25	20
(36)	802-13.15	PHYSOCARPUS OPULIFOLIUS (NINEBARK) 2-5FT C.G.	EACH	25	20
(36)	802-13.53	CEPHALANTHUS OCCIDENTALIS (BUTTONBUSH SDLNG BARE ROOT)	EACH	2	2
(36)	802-13.56	HYDRANGEA QUERCIFOLIA (OAKLF HYDRANGEA SDLNG BARE ROOT)	EACH		20
(36)	802-13.63	VACCINIUM STAMINEUM (DEERBERRY SDLNG B.R.)	EACH	25	20
(36)	802-13.67	RHODODENDRON CALENDULACEUM (FLAMING AZALEA SDLING B.R.)	EACH	25	20
(36)	802-13.72	RHUS TYPHINA (STAGHORN SUMAC SDLING B.R.)	EACH	25	20
(3),(35)	803-01	SODDING (NEW SOD)	S.Y.	58755	8465
(3)	805-01.02	TURF REINFORCEMENT MAT (CLASS II)	S.Y.	22653	1884
(3)	805-01.03	TURF REINFORCEMENT MAT (CLASS III)	S.Y.	1580	
(3)	805-01.04	TURF REINFORCEMENT MAT (CLASS IV)	S.Y.	1897	
(3)	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	1200	
(3)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	38600	
(3)	805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	27800	
(3),(36)	805-12.08	700 GRAM COIR FIBER EROSION BLANKET	S.Y.	1400	2420
(53)	806-02.03	PROJECT MOWING	CYCL	4	4

SEE SHEET 2A1 FOR FOOTNOTES

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ESTIMATED QUANTITIES

SHEET 2 OF 3

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2A1

FOOTNOTES:

(1) INCLUDES 7500 CY FOR EROSION CONTROL
(2) FOR VERTICAL PANELS VP-1R = 250 SF AND VP-1L = 250 SF
(3) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT
(4) 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 MANUFACTURER'S DRAWING. MOVING THE ATTENUATORS FOR CONSTRUCTION PHASING IS INCLUDED IN THE COST OF THE ITEM.
(5) INCLUDES 350 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL
(6) INCLUDES 620 FT. FOR CROSS DRAINS AND 2390 FT. FOR STORM SEWER
(7) INCLUDES 724 FT. FOR CROSS DRAINS AND 320 FT. FOR STORM SEWER
(8) INCLUDES 318 FT. FOR CROSS DRAINS AND 1420 FT. FOR STORM SEWER
(9) INCLUDES 220 FT. FOR CROSS DRAINS AND 378 FT. FOR STORM SEWER
(10) INCLUDES 74 FT. FOR CROSS DRAINS AND 50 FT. FOR SIDE DRAINS
(11) INCLUDES 16 C.Y. FOR CROSS DRAIN ENDWALLS AND 9 C.Y. FOR STORM DRAINAGE ENDWALLS
(12) INCLUDES 1019 LB. FOR CROSS DRAIN ENDWALLS AND 152 LB. FOR STORM DRAINAGE ENDWALLS
(13) INCLUDES 670 TONS FOR EROSION PREVENTION AND SEDIMENT CONTROL AND 222 TONS FOR RIP-RAP ENERGY BASIN AND 2256 TONS FOR PRIVATE DRIVE DITCHES AND 345 TONS FOR HAUL RD. ON ROE LN. (SEE SHT. NO. 14B)
(14) INCLUDES 360 TONS FOR CROSS DRAIN APRONS, 5051 TONS FOR DITCHES, 279 TONS FOR STORM DRAIN APRONS, 2835 TONS FOR EROSION PREVENTION AND SEDIMENT CONTROL BERMS AND 266 TONS FOR STREAM MITIGATION
(15) INCLUDES 534 TONS FOR CROSS DRAIN APRONS 6522 TONS FOR DITCHES AND 43 TONS FOR STREAM MITIGATION
(16) INCLUDES 365 S.Y. FOR RIP-RAP APRONS, 2500 S.Y. FOR EROSION PREVENTION AND SEDIMENT CONTROL, 6036 S.Y. FOR DITCHES, 141 S.Y. FOR RIP-RAP ENERGY BASIN, 225 S.Y. FOR STREAM MITIGATION AND 394 S.Y. FOR HAUL RD.
(17) TO INCLUDE THE COST OF CHIPPING AND GRINDING FOR USE AS MULCH ONSITE
(18) TO BE USED TO FILL PIPES SR-52 STA. 648+63.77 AND STA. 617+57.13
(19) TO BE USED WITH EROSION CONTROL BLANKET TYPES I,II & III ON SLOPES STEEPER THAN 3:1
(20) TO BE USED WITH TURF REINFORCEMENT MAT TYPE II, III & IV
(21) INCLUDES 32 LM FOR TRAFFIC CONTROL AND 3 LM FOR FINAL MARKING ON SIDE ROADS
(22) STA. 611+00.00 TO STA. 614+50.00 OFFSET 52' LT. SEE SHEET 12B
(23) TO BE USED FOR CONCRETE FLUME AT CROSS DRAIN STA. 664+34.83
(24) CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC
(25) TO BE USED FOR TRAFFIC CONTROL
(26) INCLUDES 86 TONS FOR GRAVITY WALL LEFT STA. 690+00 AND 78 TONS FOR RETAINING WALL RIGHT STA. 696+00
(27) INCLUDES 64 TONS FOR GRAVITY WALL LEFT STA. 690+00 AND 390 TONS FOR RETAINING WALL RIGHT STA. 696+00
(28) TO BE USED FOR GRAVITY WALL LEFT STA. 690+00.00
(29) INCLUDES 116725 TONS FOR ROADWAYS, 4845 TONS FOR PRIVATE DRIVES, 18506 TONS FOR TRAFFIC CONTROL RUN-AROUNDS AND 4924 TONS TO BE USED AS DIRECTED BY THE ENGINEER
(30) INCLUDES 18411 TONS FOR ROADWAYS, 944 TONS FOR PRIVATE DRIVES AND 3652 TONS FOR TRAFFIC CONTROL RUN-AROUNDS
(31) INCLUDES 288 TONS FOR ROADWAYS AND 113 TONS FOR TRAFFIC CONTROL RUN-AROUNDS
(32) INCLUDES 1139 TONS FOR ROADWAYS AND 54 TONS FOR TRAFFIC CONTROL RUN-AROUNDS
(33) INCLUDES 9430 TONS FOR ROADWAYS, 1157 TONS FOR PRIVATE DRIVES AND 1912 TONS FOR TRAFFIC CONTROL RUN-AROUNDS
(34) INCLUDES 113 TONS FOR ROADWAYS AND 9 TONS FOR TRAFFIC CONTROL RUN-AROUNDS
(35) INCLUDES 5109 S.Y. FOR DITCHES
(36) TO BE USED FOR STREAM AND WETLAND MITIGATION
(37) SOME MATERIAL MAY NOT BE SUITABLE FOR FILL MATERIAL AND MAY NEED TO BE WASTED. THE QUANTITY OF GRADED SOLID ROCK BORROW IS DEPENDENT ON THE QUALITY OF MATERIAL EXCAVATED ON THE PROJECT AND MAY BE INCREASED OR DECREASED AT THE DISCRETION OF THE ENGINEER.
(38) USED UNDER ROCK FILL SLOPES (SEE CROSS SECTIONS)
(39) APPROXIMATE STA. 639+30.00 OFFSET 260' RT. SEE SHEET 14B
(40) REMOVE SIGN FACE AND SUPPORT (NO FOOTINGS ON THESE SIGNS) ON APPROXIMATELY 40 EXISTING SIGNS WITHIN THE GRADING LIMITS OF THIS PROJECT OR AS DIRECTED BY THE ENGINEER
(41) ITEM NO. TO INCLUDE SIGN FACE (TN-8-OH), ALL ELECTRICAL: FLASHING LIGHTS, WIRING AND CONNECTORS (AS SPECIFIED IN T.D.O.T. STANDARD SPECIFICATION BOOK (730.28) FLASHING SCHOOL SIGNAL). APPROVED SOLAR PANEL, BATTERY, TIMER, ALL BRACKETS, CONTROL BOX WITH LOCK AND KEY AND ALL OTHER INCIDENTALS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM AS LOCATED IN THE PLANS. SUPPORT TO BE PAID FOR UNDER ITEM NO. 730-23.48
(42) TO BE USED FOR THE SCHOOL SIGNAL SPEED SIGN SUPPORT. THE FOOTING FOR THE 20'-0" CANTILEVER SIGNAL SUPPORT WILL USE A 3'-0" DIA. DRILLED SHAFT AND THE DEPTH WILL BE 15'-0"
(43) TO BE JACKED-IN-PLACE
(44) USED FOR STREAM DIVERSIONS AND CULVERT INSTALLATIONS.
(45) 270 UNITS TO BE USED FOR EXCESS MATERIAL TO BE WASTED AND 85 UNITS FOR SLOPE APPLICATION.
(46) TO BE USED AS DIRECTED BY THE ENGINEER.
(47) SIGN NO'S. 78, 87 & 89, SEE STD. DRAWING T-S-23A.
(48) WOOD SIGN FACE AND SUPPORTS, SIGN NO'S. 6A AND 13A.
(49) INCLUDES 316 M.G. FOR BASE MATERIAL AND 2123 M.G. FOR EMBANKMENT.
(50) INCLUDES 600 S.Y. FOR TIE IN STA. 511+50 TO STA. 513+50 AND 5400 S.Y. FOR SR-111 AND SR-52 NORTH CHURCH INTERSECTION.
(51) USED AT TREE PLANTING LOCATIONS.
(52) INCLUDES 80 TONS FOR TEMP. CULVERT CROSSINGS, 330 TONS FOR TEMP. CONSTRUCTION EXITS AND 260 TONS FOR TEMP. CONSTRUCTION FORDS.
(53) 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 NO. 806-02.03, PROJECT MOWING, CYCL.

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DEPARTMENT OF TRANSPORTATION

FOOTNOTES

SHEET 3 OF 3

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	APD/NH-52(48)	2B

ESTIMATED UTILITY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	67002-3233-64 QUANTITY	67002-3235-14 QUANTITY
790-03.02	POLE 40FT CLASS 3 WOOD	EACH	1	
790-04.03	POLE 45FT CLASS 3 WOOD	EACH	5	5
790-05.02	POLE 50FT CLASS 2 WOOD	EACH	2	
790-05.03	POLE 50FT CLASS 3 WOOD	EACH	9	
790-06.02	POLE 55FT CLASS 2 WOOD	EACH	100	1
790-07.02	POLE 60FT CLASS 2 WOOD	EACH	3	
790-22.01	1Ø SGL PRIMARY SUPPORT 25KV	EACH	12	2
790-22.07	1Ø DBL PTS ANGLE 25KV	EACH	1	
790-22.10	1Ø SUSPENSION ANGLE 25KV	EACH	0	
790-22.11	1Ø DDE ANGLE 25KV	EACH	2	3
790-22.12	1Ø DEAD END MISC 25KV	EACH	1	
790-22.13	1Ø DEAD END 25KV	EACH	10	
790-22.14	1Ø DEAD END TAP 25KV	EACH	6	
790-22.15	1Ø DEAD END TAP W/ EXTENSION 25KV	EACH	16	2
790-22.16	1Ø DDE TANGENT 25KV	EACH	3	2
790-22.18	1Ø SGL DEAD END XARM 25KV	EACH	1	
790-22.19	1Ø CROSSARM DBL TANGENT 25KV	EACH	1	
790-24.08	2Ø DEAD END CROSSARM 25KV	EACH	3	
790-26.03	3Ø CROSSARM SGL LRG COND 25KV	EACH	0	
790-26.07	3Ø CROSSARM SGL LRG COND ON ST PL 25KV	EACH	69	
790-26.15	3Ø XARM DBL 10FT LRG COND SM ANGLE 25KV	EACH	27	
790-26.21	3Ø VERTICAL DDE ANGLE 25KV	EACH	1	1
790-26.23	3Ø VERTICAL DEAD END 25KV	EACH	0	
790-26.26	3Ø CROSSARM DEAD END 25KV	EACH	18	
790-30.01	SECONDARY ASSEMBLIES SMALL ANGLE	EACH	17	
790-30.03	SECONDARY ASSEMBLIES DEADEND	EACH	32	
790-30.06	SECONDARY CONDUCTOR 6 AL DUPLEX	LF	1037	
790-30.13	SECONDARY CONDUCTOR 2 AL TRIPLEX	LF	837	
790-31.03	SERVICE ASSEMBLY-MAST TYPE	EACH	10	
790-32.01	DOWN GUY - THROUGH BOLT TYPE	EACH	78	2
790-32.02	DOWN GUY - THROUGH BOLT TYPE HEAVY DUTY	EACH	11	1
790-32.04	DOWN GUY - WRAP TYPE	EACH	17	6
790-32.07	OH GUY - THROUGH BOLT TYPE	EACH	1	
790-32.08	OH GUY - THROUGH BOLT TYPE HEAVY DUTY	EACH	4	
790-32.23	GUY GUARD	EACH	80	9
790-33.01	EXPANDING TYPE ANCHOR 6,000LB-8,000LB	EACH	86	16
790-40.02	OH COND 2 7/1 ACSR SPARATE	LF	19975	2290
790-40.03	OH COND 1/0 6/1 ACSR RAVEN	LF	930	
790-40.06	OH COND 4/0 6/1 ACSR PENGUIN	LF	0	322
790-40.10	OH COND 336.4 26/7 ACSR LINNET	LF	1326	966
790-40.18	OH COND 556.5 18/1 ACSR OSPREY	LF	17486	
790-40.24	OH COND 795 26/7 ACSR DRAKE	LF	55726	
790-41.09	UG SEC COND 4/0 AL TPLX	LF	86	
790-42.12	CONDUIT - POLE MTD - 2FT SCH 80 PVC	L.F.	3	
790-46.01	1Ø TRANSFORMER	EACH	5	
790-46.02	1Ø TRANSFORMER CONV W/POLE MTD FUSE & LA	EACH	29	
790-46.03	1Ø TRANSFORMER CONV W/XARM MTD FUSE & LA	EACH	2	
790-47.02	2Ø XFMR BNK POLE MTD W/ FUSE/ARRESTERS	EACH	1	
790-49.02	3Ø XFMR BNK POLE MTD W/ FUSE/ARRESTERS	EACH	2	
790-54.01	1.5KVA 1Ø OH XFORMER 14 .4KV 120/240	EACH	11	
790-54.03	10KVA 1Ø OH XFORMER 14.4KV 120/240	EACH	1	
790-54.04	15KVA 1Ø OH XFORMER 14.4KV 120/240	EACH	26	
790-54.06	25KVA 1Ø OH XFORMER 14.4KV 120/240	EACH	22	
790-54.17	100KVA 1Ø OH XFORMER 14.4KV 120/240	EACH	1	
790-61.01	1Ø FUSE CUTOUT XARM MOUNT 25KV	EACH	15	1
790-61.02	1Ø FUSE CUTOUT BRKT MOUNT 25KV	EACH	1	
790-64.01	SEC MTG 1Ø 120/240 VOLTS	EACH	1	2

ESTIMATED UTILITY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	67002-3233-64 QUANTITY	67002-3235-14 QUANTITY
790-65.06	LIGHTNING ARRESTER POLE MTD 18 KV	EACH	6	
790-65.17	3Ø CAPACITOR ASSEMBLY 25KV	EACH	4	
790-68.10	MISCELLANEOUS ASSEMBLIES	EACH	0	1
790-68.12	LARGE BRACES	EACH	1	
790-69.09	GND-ASSY GND ROD WITH ALUMINUM	EACH	116	7
790-69.22	POLE TOP PIN	EACH	2	
790-69.23	PAIR OF 10IN OR THREE 6IN BELLS	EACH	1	6
790-69.29	SADDLE PIN	EACH	1	
790-69.31	STICK PIN	EACH	1	
790-69.32	ARM PIN	EACH	1	
790-70.10	FLOOD LIGHT	EACH	36	
791-03.01	<2IN HDPE GAS MAIN	LF	990	
791-03.02	2IN HDPE GAS MAIN	LF	7725	
791-03.04	4IN HDPE GAS MAIN	LF	4220	
791-04.10	HDD <2IN PE PIPE - ROCK	LF	110	
791-04.11	HDD 2IN PE PIPE - ROCK	LF	45	
791-04.13	HDD 4IN PE PIPE - ROCK	LF	50	
791-05.01	BORE/JACK 4IN STEEL CASING PIPE - UNCON.	LF	255	
791-06.02	CONNECT TO 2IN EX. PE MAIN	EA	8	
791-06.03	CONNECT TO 4IN EX. PE MAIN	EA	2	
791-06.09	CONNECT TO 1IN EX. PE MAIN	EA	1	
791-07.01	2IN PE GAS VALVE ASSEMBLY	EA	11	
791-07.02	4IN PE GAS VALVE ASSEMBLY	EA	2	
791-07.08	1IN PE GAS VALVE ASSEMBLY	EA	1	
791-10.10	RETIRE IN PLACE GAS LINE CUT & PLUG	EA	11	
793-01.01	POLE 30FT CLASS 4 WOOD	EACH	4	0
793-01.05	POLE 35FT CLASS 2 WOOD	EACH	2	0
793-01.07	POLE 35FT CLASS 4 WOOD	EACH	6	0
793-01.40	ANCHOR 3/4IN	EACH	30	39
793-01.41	ANCHOR 1IN	EACH	3	0
793-02.08	GUY WIRE 10M OR 3/8IN	EACH	39	52
793-02.92	OVERHEAD GUY WIRE 3/8IN	EACH	9	0
793-03.01	25 PAIR GROUP AERIAL SPLICE	EACH	1652	1014
793-03.03	10M STRAND	L.F.	12253	24544
793-03.11	25 PAIR CABLE	L.F.	557	0
793-03.12	50 PAIR CABLE	L.F.	0	1276
793-03.14	100 PAIR CABLE	L.F.	990	206
793-03.16	200 PAIR CABLE	L.F.	1934	9252
793-03.18	400 PAIR CABLE	L.F.	990	0
793-03.19	600 PAIR CABLE	L.F.	990	0
793-03.41	AERIAL CABLE (12 PAIR COPPER 22 GAUGE)	L.F.	1443	4862
793-04.01	RELASH/DELASH CABLE	L.F.	900	0
793-04.02	2 PAIR AERIAL DROP	L.F.	640	4717
793-04.06	READY ACCESS CLOSURE	EACH	22	41
793-04.07	AERIAL SPLICE CLOSURE	EACH	9	3
793-04.08	TRANSFER AERIAL CABLE	EACH	16	7
793-04.09	TRANSFER AERIAL DROP	EACH	6	45
793-04.25	HOT SPLICE EXISTING CABLES	EACH	2573	922
793-07.01	12 FIBER(MATERIAL ONLY)	L.F.	7235	11320
793-07.07	144 FIBER(MATERIAL ONLY)	L.F.	8199	4333
793-07.16	12-96 FIBER(INSTALLATION ONLY)	L.F.	7235	10000
793-07.17	108-144 FIBER(INSTALLATION ONLY)	L.F.	8199	10492
793-07.22	FIBER SPLICE-12 FIBER RIBBON	EACH	0	10
793-07.23	FIBER OPTIC MAINTENANCE LOOP	EACH	28	18
793-07.25	SINGLE FIBER OPTIC CABLE SPLICE	EACH	0	36
793-07.26	120 FIBER(INSTALLATION ONLY)	L.F.	492	5667
793-07.41	HOT SPLICE EXISTING FIBER CABLES	EACH	744	12

(1) UPPER CUMBERLAND EMC
(2) LIVINGSTON GAS
(3) TWIN LAKES
(4) LIVINGSTON SEWER
(5) LIVINGSTON WATER
(6) NORTH OVERTON U.D.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 105423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED UTILITIES QUANTITIES

SHEET 1 OF 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	APD/NH-52(48)	2B1

ESTIMATED UTILITY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	67002-3233-64 QUANTITY	67002-3235-14 QUANTITY
3	793-09.01	25 PAIR BURIED CABLE	L.F.	50	0
	793-09.02	50 PAIR BURIED CABLE	L.F.	0	50
	793-09.08	400 PAIR BURIED CABLE	L.F.	0	1170
	793-10.02	BURIED CABLE @ 36IN DEPTH	L.F.	50	1120
	793-11.06	8IN PEDESTAL	EACH	1	0
	793-11.08	10IN PEDESTAL	EACH	0	1
	793-11.10	12IN PEDESTAL	EACH	0	1
	793-11.13	BURIED RISER GUARD	EACH	0	9
	793-12.02	REARRANGEMENT EXISTING CABLE	EACH	1	2
	793-16.02	DIRECTIONAL BORE 2IN/FLEX SLEEVE	L.F.	0	220
	793-16.03	DIRECTIONAL BORE 3IN/FLEX SLEEVE	L.F.	0	220
	793-98.01	REMOVE AERIAL CABLE AND WIRE	L.F.	21559	31174
	793-98.04	REMOVE POLES ALL SIZES	EACH	26	34
	793-98.08	REMOVE ANCHOR (ANY SIZE)	EACH	21	30
	793-98.21	TRIM UTILITY RIGHT-OF-WAY	L.F.	8768	11700
1	793-98.21	TRIM UTILITY RIGHT-OF-WAY	LF	10560	
6	795-01.05	8IN DIP RESTRAINED JOINT WATER LINE	LF	1648	
5	795-01.05	8 IN. D.I.P. RESTRAINED JOINT WATER LINE	L.F.	0	64
5	795-01.06	8 IN. D.I.P. SLIP JOINT WATER LINE	L.F.	0	439
	795-03.02	2IN PVC WATER LINE	LF	250	
6	795-03.04	4IN PVC WATER LINE	LF	1800	
	795-03.05	6IN PVC WATER LINE	LF	2458	
	795-03.06	8IN PVC WATER LINE	LF	9345	
5	795-03.06	8 IN. PVC WATER LINE	L.F.	0	1310
	795-05.60	BORE/JACK 6IN STEEL CASING PIPE - UNCON.	LF	120	
	795-05.63	BORE/JACK 12IN STEEL CASING PIPE - UNCON.	LF	273	
	795-05.66	BORE/JACK 18IN STEEL CASING PIPE - UNCON.	LF	370	
6	795-06.01	CONNECT TO 2IN WATER LINE	EA	3	
	795-06.03	CONNECT TO 4IN WATER LINE	EA	3	
	795-06.04	CONNECT TO 6IN WATER LINE	EA	2	
	795-06.05	CONNECT TO 8IN WATER LINE	EA	3	
5	795-06.05	CONNECT TO 8 IN. WATER LINE	EACH	0	4
6	795-07.03	6IN X 6IN TAPPING SLEEVE AND VALVE	EA	2	
	795-07.06	8IN X 8IN TAPPING SLEEVE AND VALVE	EA	3	
5	795-07.06	8 IN. X 8 IN. TAPPING SLEEVE AND VALVE	EACH	0	4
6	795-07.32	INSERTION VALVE (8IN)	EA	1	
5	795-07.32	INSERTION VALVE (8 IN.)	EACH	0	4
	795-08.01	2IN GATE VALVE ASSEMBLY	EA	4	
	795-08.03	4IN GATE VALVE ASSEMBLY	EA	9	
6	795-08.05	8IN GATE VALVE ASSEMBLY	EA	18	
	795-09.01	3/4IN WATER SERVICE METER ASSEMBLY	EA	38	
	795-09.04	2IN WATER SERVICE METER ASSEMBLY	EA	1	
5	795-09.09	RELOCATE/RECONNECT SERVICE ASSEMBLY	EACH	0	5
6	795-09.10	SAMPLE TAP	EA	1	
5	795-09.19	3/4 IN. PVC SERVICE PIPE	L.F.	0	100
	795-09.21	1-1/2IN PVC SERVIE PIPE	LF	1240	
6	795-09-28	3/4IN COPPER SERVICE PIPE	LF	380	
	795-10.01	3/4IN AUTO AIR RELEASE VALVE ASSEMBLY	EA	7	
5	795-10.03	1 IN. AUTO AIR RELEASE VALVE ASSEMBLY	EACH	0	1
6	795-11.01	BLOW-OFF ASSEMBLY	EA	2	
5	795-11.01	BLOW-OFF ASSEMBLY	EACH	0	1
6	795-11.02	FIRE HYDRANT ASSEMBLY	EA	12	
5	795-11.04	RELOCATE FIRE HYDRANT	EACH	0	1
	795-12.01	REMOVE FIRE HYDRANT	EA	6	
6	795-13.01	DI FITTINGS	LBS	9900	
	795-14.05	CONCRETE ENCASEMENT	LF	105	
	795-15.02	12IN STEEL CASING PIPE OPEN CUT METHOD	LF	30	

ESTIMATED UTILITY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	67002-3233-64 QUANTITY	67002-3235-14 QUANTITY
6	795-15.04	18IN STEEL CASING PIPE OPEN CUT METHOD	LF	135	
5	795-15.23	16 IN. STEEL CASING PIPE OPEN CUT METHOD	L.F.	0	54
4	797-01.02	6 IN. D.I.P. FORCE MAIN	L.F.	0	360
	797-03.03	1 1/2 IN. PVC FORCE MAIN	L.F.	0	10
	797-03.08	6 IN. PVC FORCE MAIN	L.F.	0	273
	797-10.17	CONNECT TO 6 IN. FORCE MAIN	EACH	0	2

1. UPPER CUMBERLAND EMC
2. LIVINGSTON GAS
3. TWIN LAKES
4. LIVINGSTON SEWER
5. LIVINGSTON WATER
6. NORTH OVERTON U.D.

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED UTILITIES QUANTITIES

SHEET 2 OF 2

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	APD/NH-52(48)	2C

ESTIMATED SIGNAL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	67002-3233-64 QUANTITY
1	713-15.40	SIGNS INSTALLATION (SUSPENDED STREET NAME SIGNS)	LS	1
2	730-01.02	REMOVAL OF SIGNAL EQUIPMENT	EACH	1
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	3
	730-02.17	SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE)	EACH	5
	730-03.20	INSTALL PULL BOX (TYPE A)	EACH	6
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	2
3	730-05.01	ELECTRICAL SERVICE CONNECTION	EACH	1
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	1009
	730-09.01	SPAN WIRE ASSEMBLY(28,475 LBS.MIN.BRK STRENGTH)	L.F.	690
	730-10.01	TETHER WIRE ASSEMBLY - 1/4" DIAMETER	L.F.	690
	730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	604
	730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	202
	730-13.03	VEHICLE DETECTOR (4 - CHANNEL, RACK MOUNT)	EACH	3
8	730-13.07	VEHICLE DETECTOR (SIREN ACTIVATED PRIORITY CONTROL)	EACH	4
	730-14.01	SHIELDED DETECTOR CABLE	L.F.	3151
	730-14.02	SAW SLOT	L.F.	1738
	730-14.03	LOOP WIRE	L.F.	4296
	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	1
4	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	1
5	730-23.01	STEEL STRAIN POLE (SIGNAL SUPPORT)	EACH	3
6	730-23.02	STEEL STRAIN POLE (SIGNAL SUPPORT)	EACH	1
7	730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	1

FOOTNOTES

(1) TO INCLUDE SIX (6) STREET NAME SIGNS, AND TO BE INSTALLED ON THE SPAN WIRE, AS SHOWN ON SHEET 35, BY THE CONTRACTOR. SEE DETAILS OF SIGNS ON SHEET 35B.

(2) TO INCLUDE THE REMOVAL OF ALL SPAN WIRES, CONTROLLER CABINET, SIGNAL HEADS, SIGNAL POLES AND ANY OTHER SIGNAL RELATED EQUIPMENT.

(3) THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE SIGNAL CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM FOR PAYMENT BY THE CONTRACTOR.

(4) CONTROLLER TYPE: EAGLE EPAC

(5) POLE NOS. 1,2 & 3
MOMENT CAPACITY: 399,500 FT.- LBS.
FOOTING DIAMETER: 4'-0"
FOOTING DEPTH: 23'-0"

(6) POLE NO. 4
MOMENT CAPACITY: 451,500 FT.- LBS.
FOOTING DIAMETER: 4'-0"
FOOTING DEPTH: 24'-0"

(7) INCLUDES WOOD POLES, GUYING DEVICES, SPAN WIRE, CONDUIT RISERS, AND ANY OTHER SIGNAL RELATED EQUIPMENT NEEDED FOR A FULLY OPERATIONAL TRAFFIC SIGNAL SYSTEM.

(8) THE EMERGENCY PRE-EMPTION UNIT TO BE A SONEM SYSTEM WITH SIREN ACTIVATION. THE ITEM INCLUDES ALL MATERIALS REQUIRED TO IMPLEMENT EMERGENCY EPS CONTROL; PROCESSOR UNIT POWER SUPPLY, PHASE SELECTORS, AND ALL OTHER ITEMS TO HAVE A FULL AND OPERATIONAL SYSTEM AS REQUIRED BY THE MANUFACTURER; INCLUDING FIELD FINE TUNING. INCLUDES 879 FT. OF DETECTOR CABLE.

SPECIAL NOTES REGARDING SIGNAL HEADS

(1) ALL CIRCULAR AND ARROW INDICATIONS WITHIN ALL VEHICULAR SIGNAL HEADS PROPOSED FOR THIS PROJECT SHALL CONSIST OF AN LED (LIGHT EMITTING DIODE) SIGNAL MODULE UNLESS OTHERWISE NOTED IN THE PLANS.

(2) CIRCULAR INDICATIONS SHALL MEET “ITE VTCSH-LED CIRCULAR SIGNAL SUPPLEMENT” FOR EXPANDED/EXTENDED VIEW.

(3) ARROW INDICATIONS SHALL MEET “ITE VTCSH-3 LED ARROW SPECIFICATON” FOR EXPANDED/EXTENDED VIEW.

(4) INCANDESCENT OR SCREW-IN MODULES ARE NOT ACCEPTABLE.

(5) COMPATABILITY WITH CONFLICT MONITORS AND LOAD SWITCHES SHALL BE TESTED AND CONFIRMED.

(6) MANUFACTURER SHALL PROVIDE A MINIMUM FIVE-YEAR WARRANTY FOR OPERATION OF THE UNIT.

(7) ALL SIGNAL HEADS WITH LED LENSES SHALL INCLUDE SWIVEL BALANCE ADJUSTERS TO MAINTAIN THE PROPER VISIBILITY. COSTS OF ADJUSTERS TO BE INCLUDED IN COSTS OF SIGNAL HEADS.

(8) THE ATTACHMENT OF THE TETHER WIRE TO THE POLE SHALL BE LOCATED BELOW THE LOWEST ELEVATION OF THE SIGNAL HEADS.

(9) SIGNAL HEADS SHALL INCLUDE LOUVERED BACKPLATES WITH A 1” MINIMUM YELLOW RETRO REFLECTIVE BORDER AROUND THE PERIMETER OF THE FACE OF THE BACKPLATE. THE RETRO REFLECTIVE BORDER TO BE MADE OF A TYPE III PRISMATIC OR BETTER MATERIAL.

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ESTIMATED SIGNAL QUANTITIES AND SPECIAL NOTES

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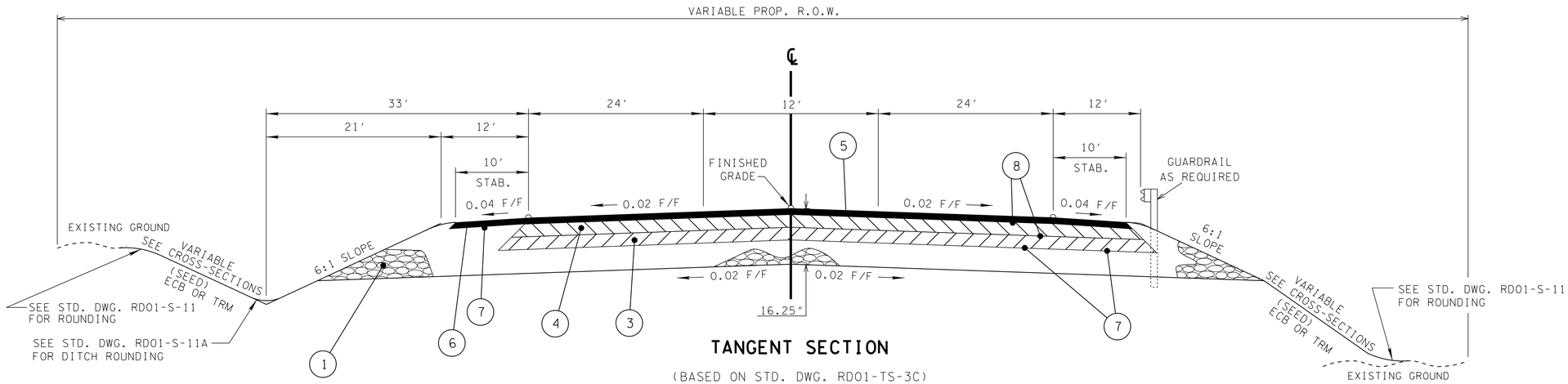
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	2
CONST.	2014	APD/NH-52(48)	2D



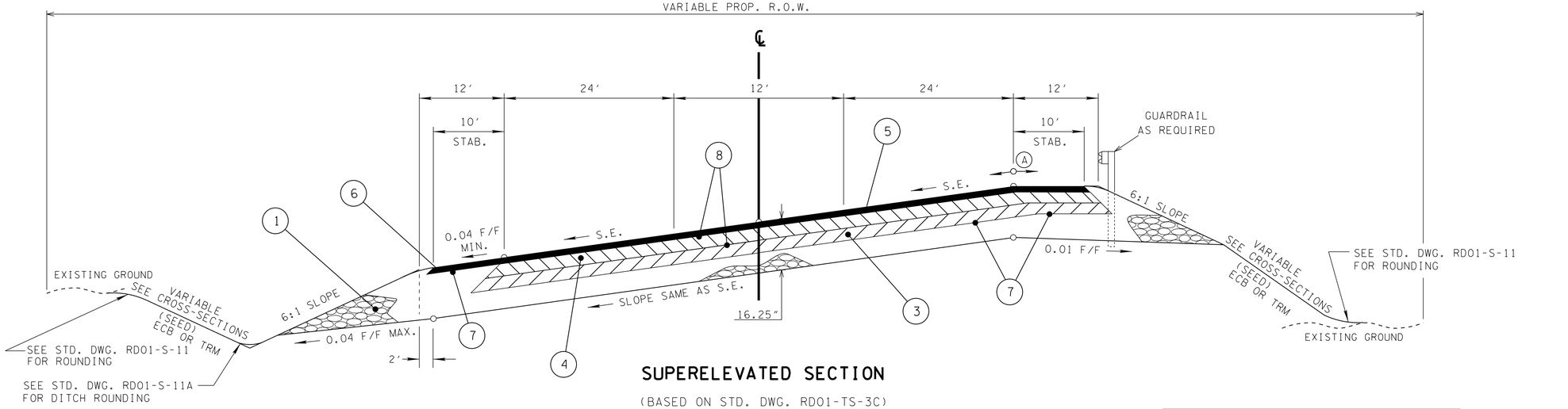
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-3C)

SR - 52
FROM STA. 529+19.08 TO STA. 532+09.17
FROM STA. 540+40.06 TO STA. 550+80.70
FROM STA. 567+32.26 TO STA. 572+22.17
FROM STA. 587+85.91 TO STA. 589+63.94
FROM STA. 603+75.93 TO STA. 605+80.77
FROM STA. 619+65.90 TO STA. 627+05.74
FROM STA. 643+25.13 TO STA. 645+58.71
FROM STA. 661+80.02 TO STA. 667+02.94

SEE STANDARD DRAWING RD01-S-11 AND RD01-S-11A (CASE 1) FOR DETAILS NOT SHOWN.

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.



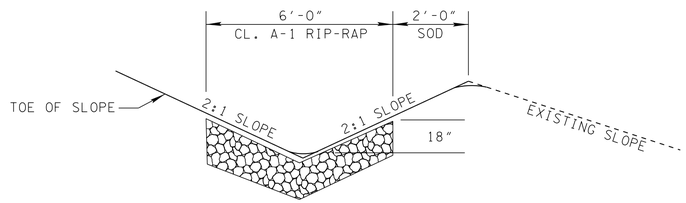
SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-3C)

SR - 52
FROM STA. 511+50.00 TO STA. 529+19.08
FROM STA. 532+09.17 TO STA. 540+40.06
FROM STA. 550+80.70 TO STA. 567+32.26
FROM STA. 572+22.17 TO STA. 587+85.91
FROM STA. 589+63.94 TO STA. 603+75.93
FROM STA. 605+80.77 TO STA. 619+65.90
FROM STA. 627+05.74 TO STA. 643+25.13
FROM STA. 645+58.71 TO STA. 661+80.02
FROM STA. 667+02.94 TO STA. 670+57.94

SEE SHEET 2I FOR PROPOSED PAVEMENT SCHEDULE

SEE SHT. NO. 2I FOR PROPOSED PAVEMENT SCHEDULE



SPECIAL DITCH SECTION

STA. 631+75 TO STA. 633+50 (RT.)

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
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NO. 106472
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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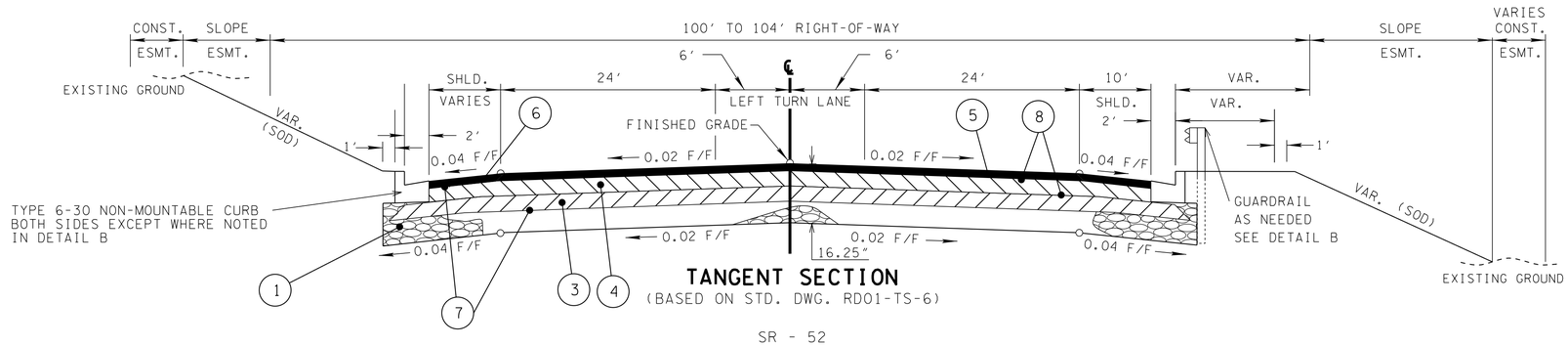
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	2A
CONST.	2014	APD/NH-52(48)	2E

REV. 12-07-12: REVISED LT. SHOULDER WIDTH

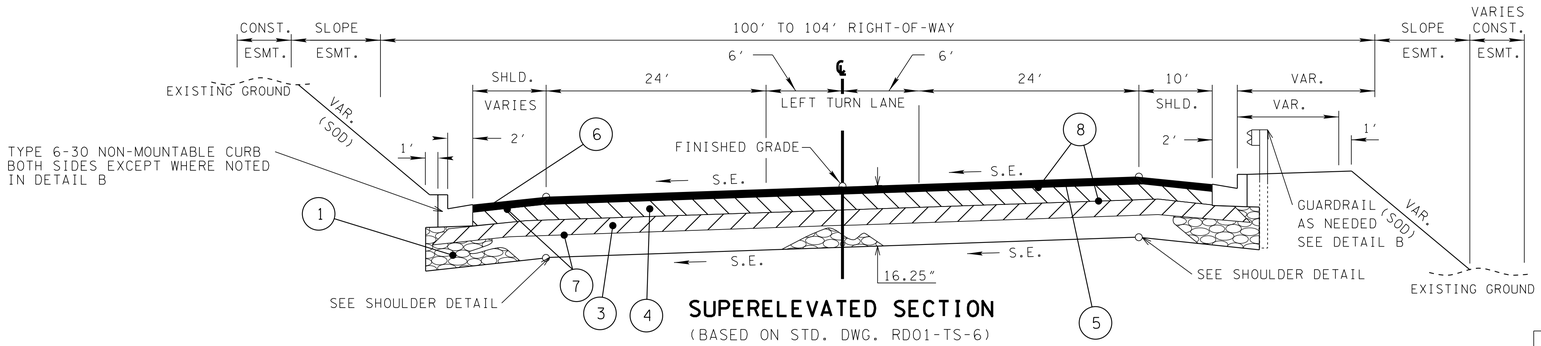


TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-6)

SR - 52
FROM STA. 680+16.00 TO STA. 681+32.53
FROM STA. 693+85.17 TO STA. 704+46.39

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.



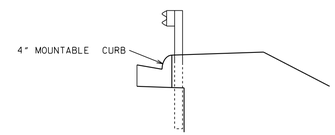
SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-6)

SR - 52
FROM STA. 670+57.94 TO STA. 680+16.00
FROM STA. 681+32.53 TO STA. 693+85.17

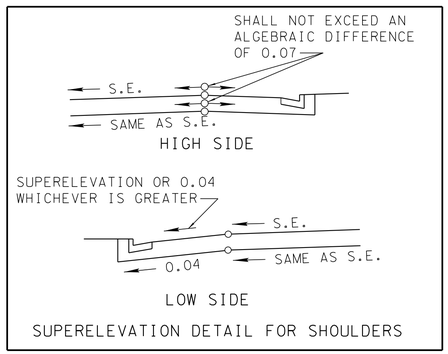
SEE SHT. NO. 2I FOR PROPOSED PAVEMENT SCHEDULE

DETAIL B



WHERE GUARDRAIL IS PRESENT BEHIND THE CURB 4" MOUNTABLE CURB SHALL BE USED WITH THE FACE OF THE GUARDRAIL FLUSH WITH THE FACE OF THE CURB

SR - 52
LEFT FROM STA. 686+50.00 TO STA. 703+00.00
RIGHT FROM STA. 684+30.00 TO STA. 690+50.00



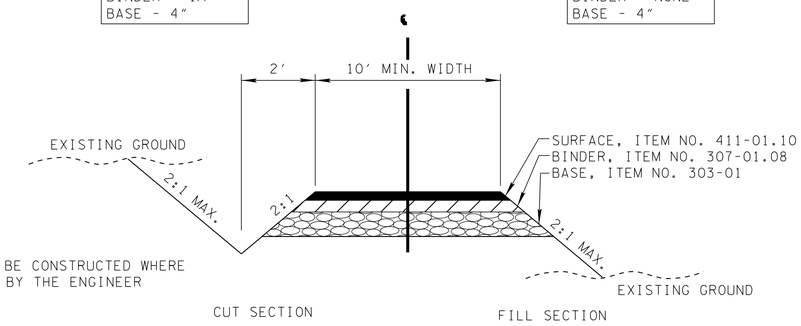
SUPERELEVATION DETAIL FOR SHOULDERS

BUSINESS

SURFACE - 1¼"
BINDER - 1¾"
BASE - 4"

FIELD OR RESIDENTIAL

SURFACE - 1½"
BINDER - NONE
BASE - 4"



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

NOTE: SLOPES IN PARKING AREAS TO BE 12:1 AND DITCH TO BE ELIMINATED

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY

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TYPICAL SECTIONS

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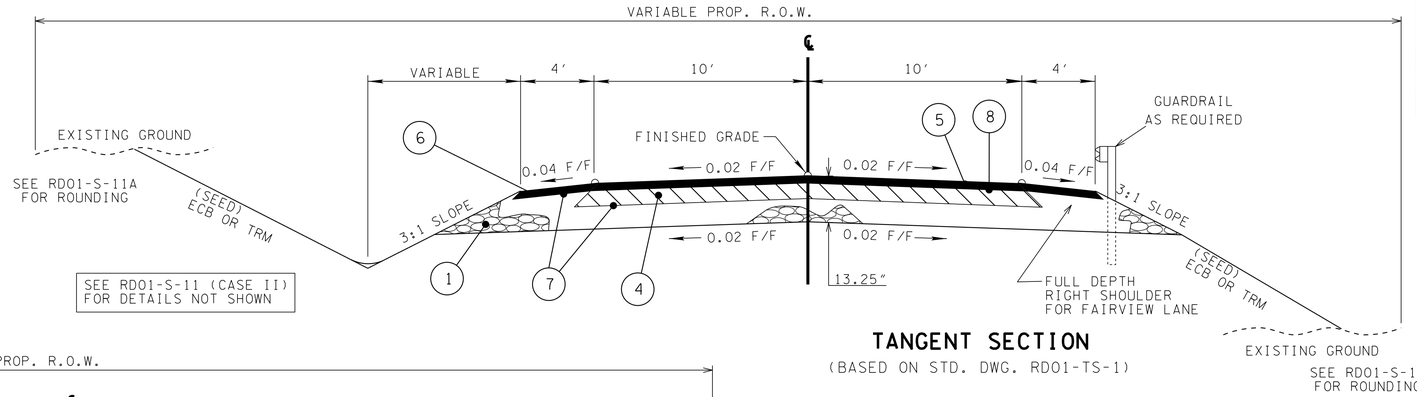
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	2B
CONST.	2014	APD/NH-52(48)	2F

REV. 07-15-13: ADJUSTED STATION RANGES FOR FAIRVIEW LN.

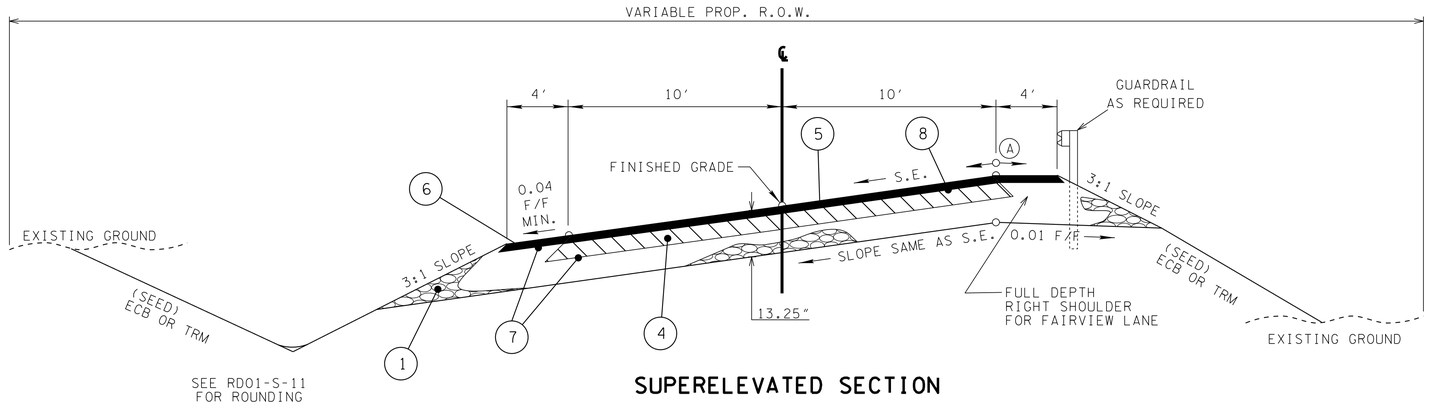


TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1)

FAIRVIEW LANE
LEFT STA. 639+78.30
FROM STA. 146+27.53 TO STA. 146+40.00

HIDDEN VALLEY GOLF AND COUNTRY CLUB ROAD
RIGHT STA. 673+81.62
FROM STA. 161+85.15 TO STA. 162+75.93



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1)

TOM SMITH ROAD
LEFT STA. 561+76.14
FROM STA. 70+10.00 TO STA. 72+36.20

FISK ROAD
LEFT STA. 585+54.02
FROM STA. 90+50.00 TO STA. 91+42.81

OLD ALLONS ROAD
LEFT STA. 596+86.45
FROM STA. 100+50.00 TO STA. 103+51.87
LEFT STA. 608+00.77
FROM STA. 120+50.00 TO STA. 122+36.29

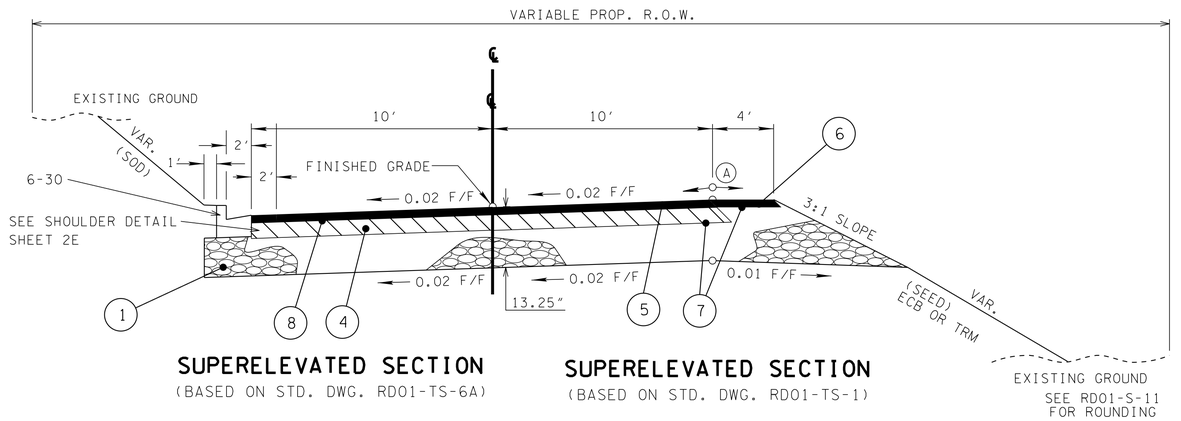
FAIRVIEW LANE
LEFT STA. 639+78.30
FROM STA. 142+50.00 TO STA. 146+27.53
FROM STA. 146+40.00 TO STA. 147+31.84

HIDDEN VALLEY GOLF AND COUNTRY CLUB ROAD
RIGHT STA. 673+81.62
FROM STA. 160+31.09 TO STA. 161+85.15
FROM STA. 162+75.93 TO STA. 164+75.00

SEE SHT. NO. 2I FOR PROPOSED PAVEMENT SCHEDULE

SEE RD01-S-11 (CASE II) FOR DETAILS NOT SHOWN

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-6A)

SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1)

ALLRED STREET
LEFT STA. 202+74.56
FROM STA. 200+10.00 TO STA. 202+46.56

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TYPICAL SECTIONS

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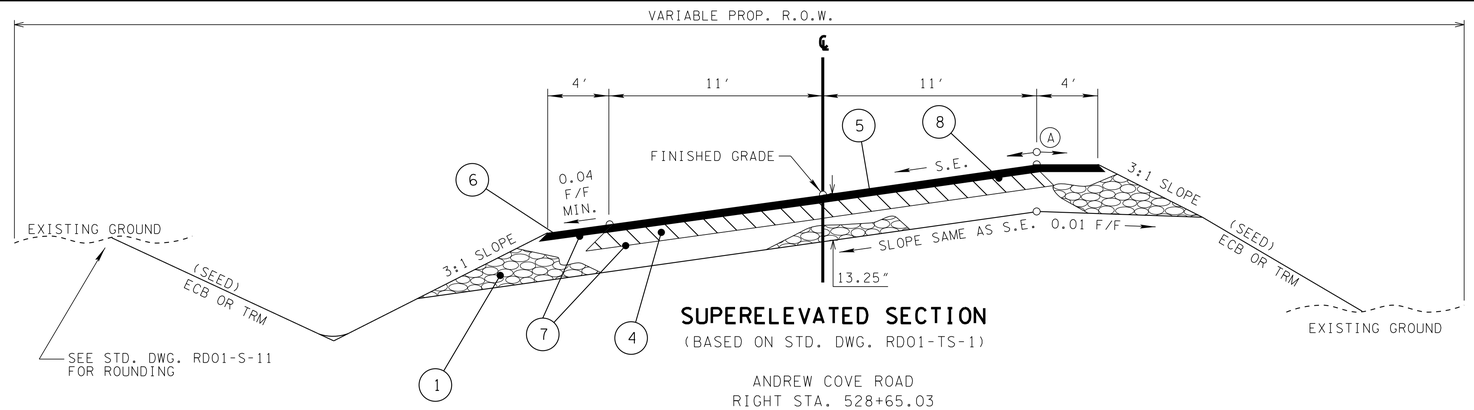
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	2C
CONST.	2014	APD/NH-52(48)	2G



SUPERELEVATED SECTION

(BASED ON STD. DWG. RDO1-TS-1)

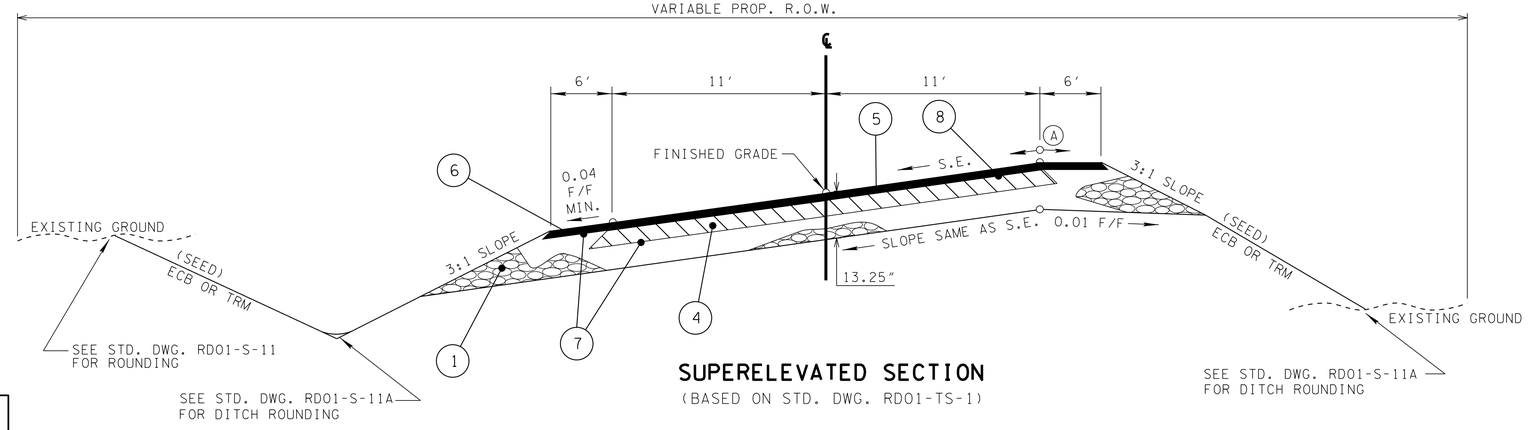
ANDREW COVE ROAD
RIGHT STA. 528+65.03
FROM STA. 30+30.00 TO STA. 32+25.00

AIRPORT ROAD
LEFT STA. 577+40.83
FROM STA. 81+20.00 TO STA. 82+39.84

ELMER LANGFORD ROAD
RIGHT STA. 599+08.30
FROM STA. 110+29.86 TO STA. 111+50.00

SEE SHT. NO. 2I FOR PROPOSED PAVEMENT SCHEDULE

SEE STANDARD DRAWING RDO1-S-11 AND RDO1-S-11A (CASE II) FOR DETAILS NOT SHOWN.

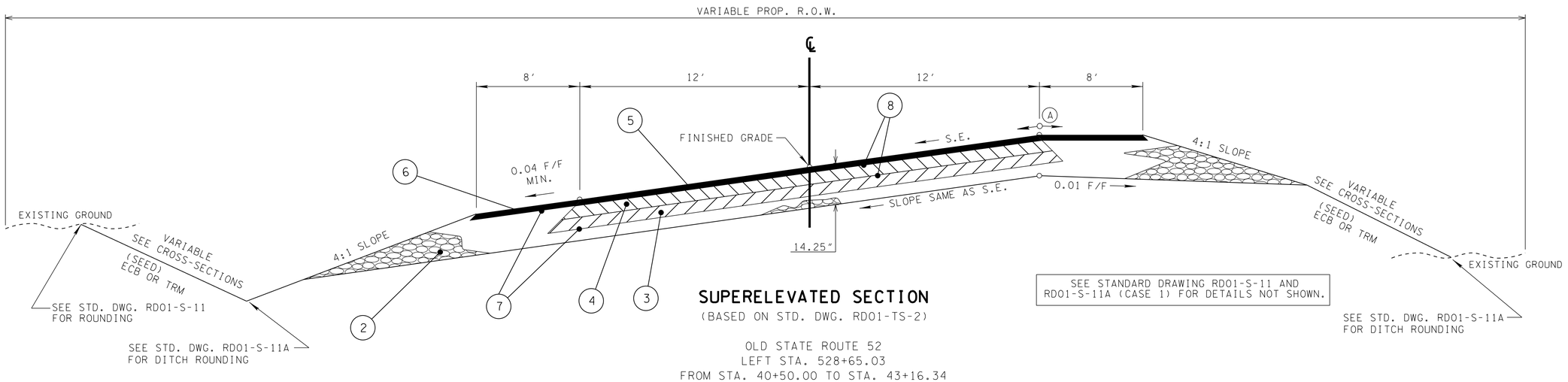


SUPERELEVATED SECTION

(BASED ON STD. DWG. RDO1-TS-1)

TOWER HILL ROAD
RIGHT STA. 680+11.94
FROM STA. 170+30.27 TO STA. 171+20.00

Ⓐ THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.



SUPERELEVATED SECTION

(BASED ON STD. DWG. RDO1-TS-2)

OLD STATE ROUTE 52
LEFT STA. 528+65.03
FROM STA. 40+50.00 TO STA. 43+16.34

SEE STANDARD DRAWING RDO1-S-11 AND RDO1-S-11A (CASE 1) FOR DETAILS NOT SHOWN.

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TYPICAL SECTIONS

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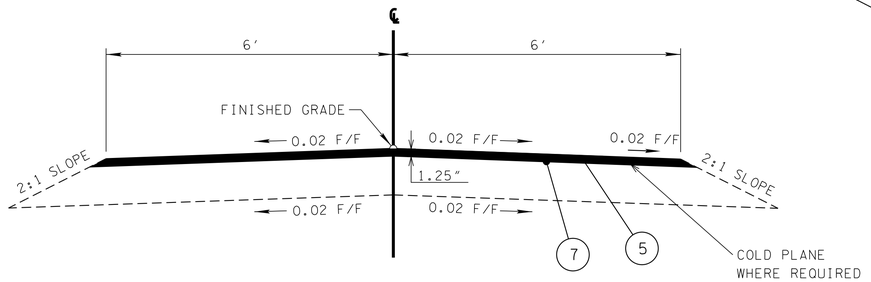
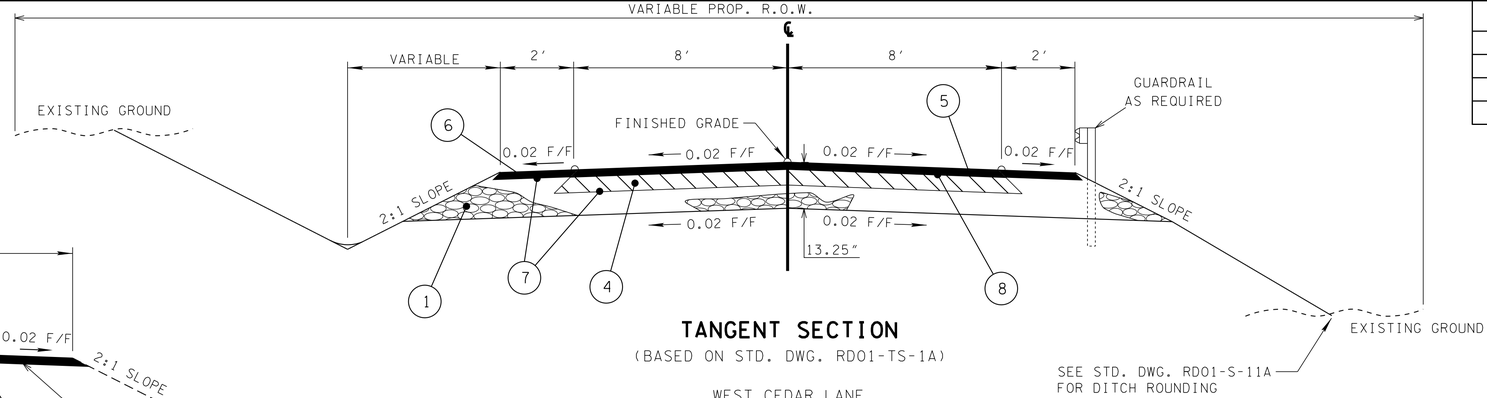
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	2D
CONST.	2014	APD/NH-52(48)	2H



OVERLAY

CASH SREET
RIGHT STA. 693+58.64
STA. 190+65.00 TO STA. 192+00.00

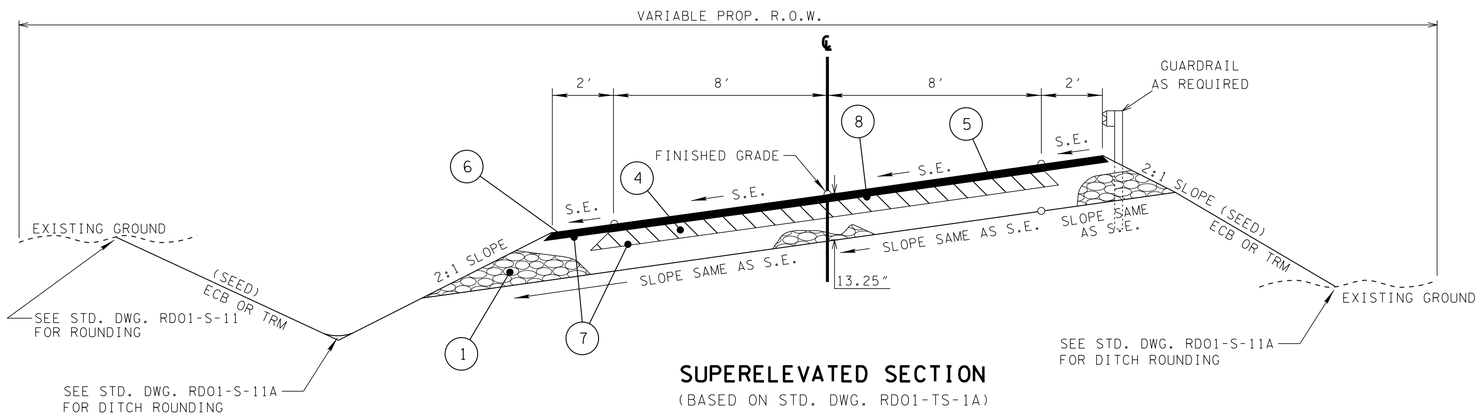


TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1A)

WEST CEDAR LANE
RIGHT STA. 519+69.21
FROM STA. 11+05.90 TO STA. 11+45.00

ROE LANE
RIGHT STA. 641+23.96
FROM STA. 151+29.80 TO STA. 153+00.00



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1A)

WEST CEDAR LANE
RIGHT STA. 519+69.21
FROM STA. 10+30.86 TO STA. 11+05.90
FROM STA. 11+45.00 TO STA. 12+00.00

EAST CEDAR LANE
LEFT STA. 519+69.21
FROM STA. 20+25.00 TO STA. 22+45.93

HOOVER CEMETERY ROAD
LEFT STA. 532+38.95
FROM STA. 60+85.00 TO STA. 61+74.44

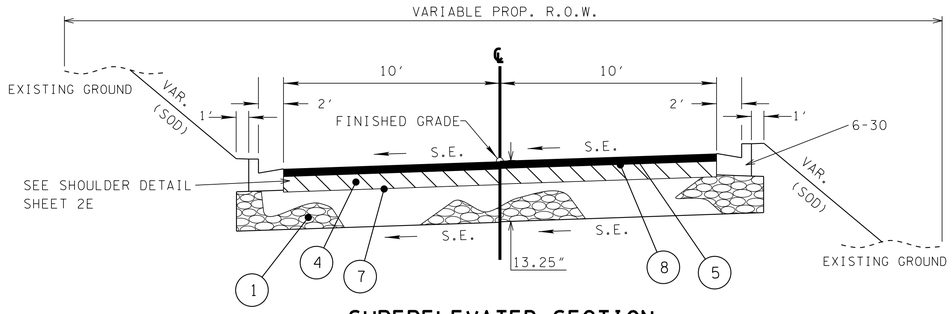
SAVAGE LANE
RIGHT STA. 101+32.57 OLD ALLONS RD
FROM STA. 21+50.00 TO STA. 23+25.67

ROE LANE
RIGHT STA. 641+23.96
FROM STA. 150+30.00 TO STA. 151+29.80

CASH STREET
RIGHT STA. 693+58.94
FROM STA. 190+30.61 TO STA. 190+65.00

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.

SEE SHT. NO. 2I FOR
PROPOSED PAVEMENT SCHEDULE



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-6A)

TOWER HILL ROAD
RIGHT STA. 530+40.86
FROM STA. 50+30.00 TO STA. 52+00.00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
NO. 109433
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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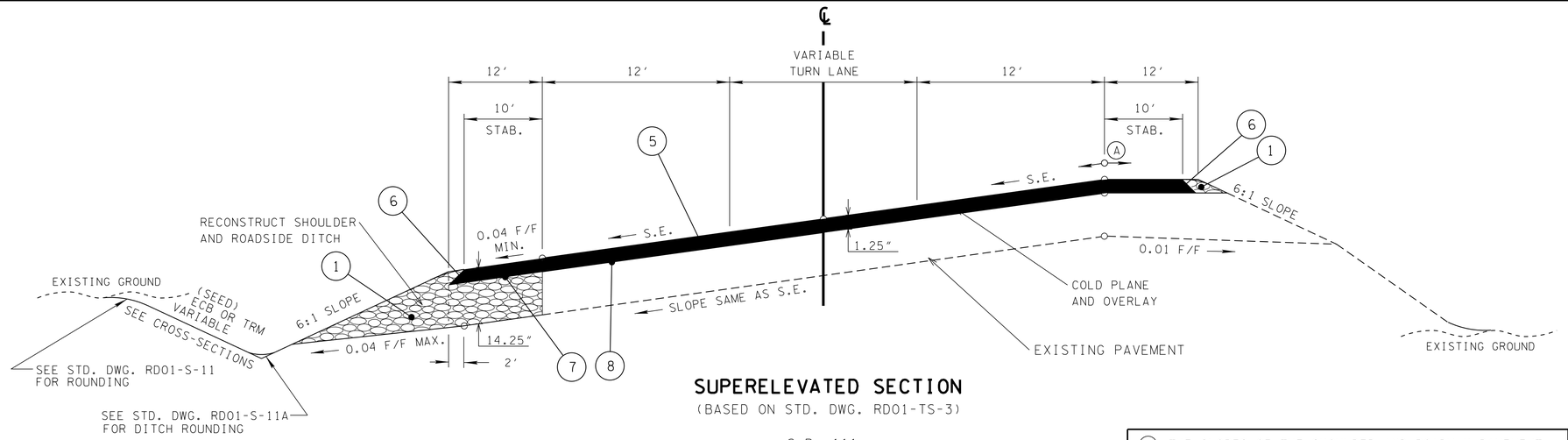
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	2E
CONST.	2014	APD/NH-52(48)	2I

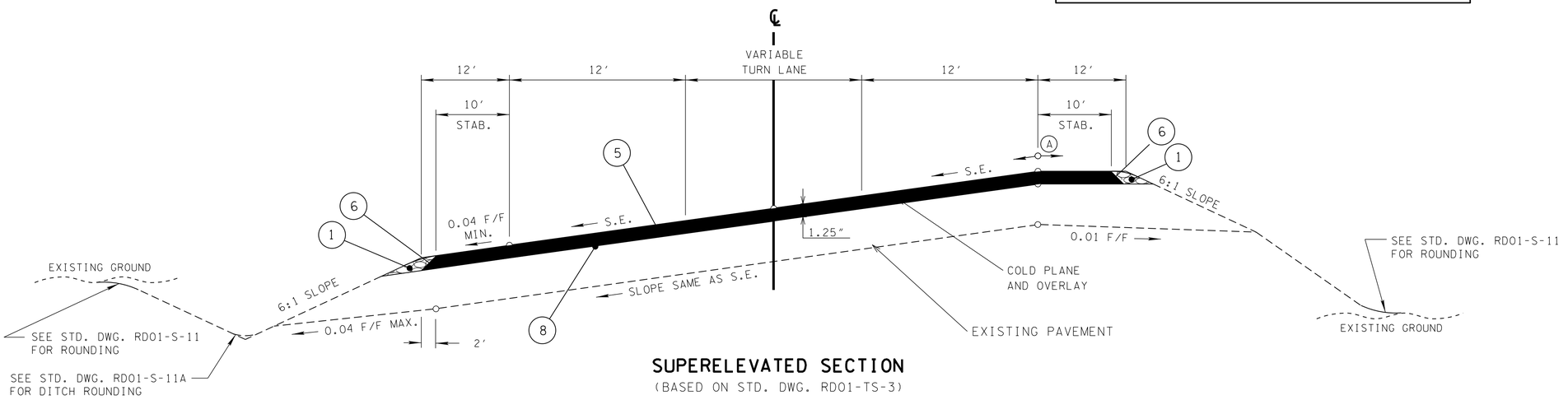


SUPERELEVATED SECTION

(BASED ON STD. DWG. RDO1-TS-3)

S.R. 111
FROM STA. 215+50.00 TO STA. 219+75.00

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.



SUPERELEVATED SECTION

(BASED ON STD. DWG. RDO1-TS-3)

S.R. 52 NORTH CHURCH
FROM STA. 800+69.67 TO STA. 802+25.00

PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE BASE @ 10.00″+ THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	(5) BITUMINOUS SURFACE @ 1.25″+ THICK (APPROX 132.5 LBS/SY) 411-01.10 ACS MIX (PG64-22) GRADING "D"
(2) MINERAL AGGREGATE BASE @ 8.00″+ THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	(6) BITUMINOUS SURFACE @ 1.50″+ THICK (APPROX 154.5 LBS/SY) 411-01.07 ACS MIX (PG64-22) GRADING "E" SHOULDER
(3) BITUMINOUS BASE @ 3.00″+ THICK (APPROX 345 LBS/SY) 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "A"	(7) BITUMINOUS MATERIAL FOR PRIME COAT @ 0.30-0.35 GAL/SY 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) 402-02 ACCGREGATE FOR COVER MATERIAL (PC)
(4) BITUMINOUS BINDER @ 2.00″+ THICK (APPROX 226 LB/SY) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "BM-2"	(8) BITUMINOUS MATERIAL FOR TACK COAT @ 0.07 GAL/SY 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2J

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 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.

(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. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

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.

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 PIPE CULVERTS & STORM SEWERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).

(3) 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. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(4) WHERE A CULVERT (PIPE) 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.

(5) 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.

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

(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.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

(1) 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. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.

(2) WIDE (8 INCH) TEMPORARY PAVEMENT MARKING LINE WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02 PAINTED PAVEMENT MARKING (8" BARRIER LINE), LIN. FT.

FINAL PAVEMENT MARKING IF 4" ENHANCED FLATLINE THERMOPLASTIC IS USED

(4) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" 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. 716-12.01, ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE), L.M. 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.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(5) THE PAVEMENT MARKING ON LANE SHIFTS FOR CENTERLINE & EDGELINES 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. 716-05.01, LIN. MI.

(6) BEFORE OPENING LANE SHIFTS 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 AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM.

PAVEMENT

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.

GRADED SOLID ROCK

(1) THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING FIVE FEET IN DEPTH.

SIGNING

(1) 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.

(2) ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(3) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.

(4) 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.

SIGNALIZATION

(1) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.

(2) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE (CITY OR COUNTY) AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE CITY OF LIVINGSTON.

(3) IF RESURFACING IS INCLUDED IN THE PROJECT, SIGNAL DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.

(4) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.

(5) THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.

(6) LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE IF A LEVELING COURSE IS PROVIDED.

(7) LOOP REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(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 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(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.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2K

GENERAL NOTES (Cont'd)

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL CONT.

(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 THIRTY (30) FEET 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 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH 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.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET 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 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET 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 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH 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.

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 ROADWAY 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.

SPECIES

(23) 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

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

(25) 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.

(26) 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.

(27) 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

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GENERAL NOTES CONT.

INSPECTION, MAINTENANCE, REPAIR CONT.

(27) 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.

(28) 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.

(29) 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.

(30) 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.

(31) 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

(32) 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

(33) 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.

(34) 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, ROADWAY 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.

(35) 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.

(36) 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.

(37) 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 DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(38) 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.

(39) 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.

(40) 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.

(41) 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

(42) 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.

(43) 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.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2L

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2L1

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 203-01, 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.

SEEDING AND SODDING

(6) ITEM NO. 801-02.01, CROWN VETCH MIXTURE (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

GRADED SOLID ROCK

(7) BORROW EXCAVATION (GRADED SOLID ROCK) SHALL CONSIST OF REMOVAL AND SATISFACTORY PLACEMENT OF SOUND, NON-DEGRADABLE ROCK WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" 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 SCREENING PROCESS THAT PRODUCES THE REQUIRED GRADATION. WHEN THE MATERISL IS SUBJECTED TO FIVE ALTERATIONS OF THE SODIUM SULFATE SOUNDNESS TEST (AASHTO T 104), THE WEIGHTED PERCENTAGE OF LOSS SHALL BE NOT MORE THAN 12. THE ROCK SHALL BE APPROVED BY THE ENGINEER BEFORE USE.

SIGNALIZATION

(8) THE DESIGN OF TRAFFIC SIGNAL SUPPORT POLES, MAST ARMS, STRAIN POLES, ETC. SHALL BE IN CONFORMANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, CURRENT EDITION. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY 1.

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(9) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 24, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL

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

ECOLOGY

(11) 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

(12) 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.

UTILITIES

(13) THE CONTRACTOR SHALL CONTACT MR. DANNY WILLIAMS (423)751-6555 OF TVA PRIOR TO BEGINNING WORK AND UPON COMPLETION OF WORK NEAR TVA POWER POLE STA. 697+91.36 (LT).

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CONST.	2014	APD/NH-52(48)	2M

CATCH BASINS AND MANHOLES

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS										
										TYPE 3 611-01-07 24' - 28'	TYPE 3 611-01-08 28' - 32'	TYPE 12 611-12.01 0' - 4'	TYPE 12 611-12.02 4' - 8'	TYPE 13 611-13.02 4' - 8'	TYPE 14 611-14.02 4' - 8'	TYPE 28 611-28.01 0' - 4'	TYPE 28 611-28.02 4' - 8'	TYPE 28 611-28.03 8' - 12'	TYPE 28 611-28.05 16' - 20'	TYPE 29 611-29.02 4' - 8'
6B	TOWER HILL RD.	50+64.71	13.40	10	1385.81	CB#13 4' DIA	48"	4.68	D-CB-13RA					1						
6B	TOWER HILL RD.	50+67.38	-16.90	11	1385.09	CB#13 4' DIA	48"	4.28	D-CB-13RA					1						
13B	S.R. 52	622+94.68	38.74	36	1252.50	MH#3 5' DIA	60"	25.86	D-MH-2	1										
16B	S.R. 52	664+34.85	39.00	41	1115.65	MH#3 5' DIA	60"	28.67	D-MH-2		1									
17B	ALLRED ST.	200+20.01	-12.17	44	1106.27	CB#12 32"X32"	32" x 32"	3.74	D-CB-12LP			1								
17B	ALLRED ST.	202+05.04	-14.45	45	1091.86	CB#14 8' DIA	96"	5.93	D-CB-14RB						1					
17B	S.R. 52	671+10.00	-42.00	46	1090.39	CB#12 6' DIA	72"	5.50	D-CB-12RB				1							
17B	S.R. 52	675+00.00	-42.00	47	1079.20	CB#12 4X4	48" x 48"	5.50	D-CB-12SB				1							
17B	S.R. 52	678+00.00	-42.00	48	1070.54	CB#12 4X4	48" x 48"	5.5	D-CB-12SB				1							
17B	S.R. 52	679+40.00	41.92	49	1067.34	CB#14 8X3	96" x 36"	4.42	D-CB-14B, 14S or 14P						1					
17B	S.R. 52	681+00.00	-42.00	50	1061.81	CB#12 4X4	48" x 48"	5.48	D-CB-12SB				1							
18B	S.R. 52	683+00.00	-42.00	52	1057.12	CB#12 4X4	48" x 48"	5.50	D-CB-12SB				1							
18B	S.R. 52	682+70.00	42.00	51	1056.21	CB#12 4X3	48" x 36"	5.12	D-CB-12B, 12S or 12P				1							
18B	S.R. 52	684+50.00	-42.00	53	1052.59	CB#12 4X4	48" x 48"	5.50	D-CB-12SB				1							
18B	S.R. 52	685+40.00	-42.00	54	1049.84	CB#14 8' DIA	96"	6.87	D-CB-14RB						1					
18B	S.R. 52	685+40.00	42.00	55	1048.18	CB#28 7' DIA	84"	8.92	D-CB-28RB									1		
18B	S.R. 52	687+00.00	42.00	56	1043.30	CB#28 8' DIA	96"	19.92	D-CB-28RB										1	
18B	S.R. 52	689+50.00	42.00	61	1035.98	CB#28 32"X32"	32" x 32"	3.74	D-CB-28LP							1				
18B	S.R. 52	691+50.00	42.00	62	1033.47	CB#12 32"X32"	32" x 32"	3.86	D-CB-12LP			1								
18B	S.R. 52	693+00.00	42.00	63	1032.93	CB#14 8X3	96" x 36"	4.42	D-CB-14B, 14S or 14P						1					
18B	S.R. 52	693+00.00	-40.00	64	1033.63	CB#28 32"X32"	32" x 32"	3.57	D-CB-28LP							1				
19B	S.R. 52	696+50.00	42.00	66	1031.18	CB#12 4X3	48" x 36"	4.89	D-CB-12B, 12S or 12P				1							
19B	S.R. 52	696+50.00	-40.00	65	1031.18	CB#28 4X3	48" x 36"	4.27	D-CB-28B, 28S or 28P								1			
19B	S.R. 52	699+30.00	42.00	67	1029.78	CB#12 4X4	48" x 48"	5.88	D-CB-12SB				1							
19B	S.R. 52	699+30.00	-40.00	68	1029.78	CB#28 4X3	48" x 36"	4.42	D-CB--28B, 28S or 28P								1			
19B	S.R. 52	699+85.00	42.00	69	1029.63	CB#14 8' DIA	96"	6.31	D-CB-14RB						1					
19B	S.R. 52	699+85.00	-40.00	73	1029.63	CB#29 8X3	96" x 36"	7.24	D-CB-29P or 29S											1
19B	S.R. 52	700+35.00	42.00	70	1029.78	CB#12 4X3	48" x 36"	4.59	D-CB-12B, 12S or 12P				1							
19B	S.R. 52	700+35.00	-40.00	72	1029.78	CB#28 32"X32"	32" x 32"	3.57	D-CB-28LP							1				
TOTALS										**1**	**1**	**2**	**10**	**2**	**5**	**3**	**2**	**1**	**1**	**1**

RIPRAP BASIN LOCATIONS, DIMENSION, AND QUANTITIES

LOCATION			CULVERT OUTLET		BASIN DIMENSIONS (FT)														RIPRAP DEPTHS (FT)				GEOTEXTILE FABRIC (SY)	RIPRAP CLASS (TON)		
STATION	DISTANCE (FT)	DIRECTION	SIZE (IN)	LENGTH (FT)	W1	W2	W3	W4	W5	W6	W7	W8	H1	H2	L1	L2	L3	L4	L5	D1	D2	D3	D4		A1	B	C
534+36.00	77	LEFT	24	126	3.50	16.00	0.00	4.50	7.00	7.40	6.00	6.00	1.25	2.30	12.50	6.30	2.10	3.00	24.00	2.50	1.90	3.00	1.50	141	222		
TOTALS																								**141**	**222**	**0**	**0**

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE		STATION		GUARDRAIL	GUARDRAIL					
		LT	RT	FROM	TO	SINGLE TYPE 2 705-02.02 (L.F.)	SNGL TP 2 PDR COAT'D 705-11.03 (L.F.)	ROUNDED END ELEMT. 706-10.26 (EACH)	TYPE 21 705-04.04 (EACH)	TYPE 21 PDR COAT'D 705-11.13 (EACH)	TYPE IN-LINE 705-04.05 (EACH)	TYPE 38 705-04.07 (EACH)
6B-7B	SR-52	X		538+86.25	544+55.00	475						2
7B	SR-52		X	540+95.00	544+63.75	275						2
11B-12B	SR-52		X	604+40.00	609+74.38	487.5		1			1	1
12B-13B	SR-52		X	616+55.00	618+38.00	162.5		1			1	1
13B-14B	SR-52		X	618+64.00	ROE LN.-151+52.00	2249		1	1		2	
14B	SR-52	X		633+09.25	638+74.87	518.75					1	1
14B	SR-52	X		638+74.87	FAIRVIEW LN.-142+55.00		406.25			1		
14B-17B	SR-52		X	ROE LN.-152+75.00	672+65.00	3312.5			1		1	1
18B	SR-52		X	684+75.00	686+81.25	112.5						2
18B	SR-52		X	688+20.00	690+07.50	93.75						2
18B-19B	SR-52	X		686+64.00	702+51.50	1493.75						2
TOTALS						**9180.25**	**406.25**	**3**	**2**	**1**	**6**	**14**

R.O.W. MARKERS

SHEET NO.	QUANTITIES			
	"A"	"B"	"C"	TOTALS
4A	1			**1**
5A	5	4	6	**15**
6A	5		5	**10**
7A	4	1		**5**
8A	10		1	**11**
9A	4		2	**6**
10A	5		3	**8**
11A	9	3	3	**15**
12A	5		2	**7**
13A	4	1	2	**7**
14A			1	**1**
15A	7	1	3	**11**
16A	12			**12**
17A	3		1	**4**
TOTALS	**74**	**10**	**29**	**113**

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 1 OF 7

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2N

CROSS DRAIN TABULATION

	LOCATION	STATION	RCP CLASS III FILL HEIGHT < OR = 18 FT. 18"	24"	30"	36"	OVAL RCP CLASS III FILL HEIGHT < OR = 18 FT. 38"x24"	RCP CLASS IV FILL HEIGHT > 18 FT. AND < OR = 27 FT. 18"	36"	RCP CLASS V FILL HEIGHT > 27 FT. AND < OR = 41 FT. 30"	SKEW	CLASS A-1 RIP-RAP 709-05.06 (TON)	CLASS B RIP-RAP 709-05.08 (TON)	CLASS C RIP-RAP 709-05.09 (TON)
	S.R. 52	523+30.49		156							51°09'00"			150
	S.R. 52	527+39.00		112							85°00'00"			126
	S.R. 52	534+36.00		126							90°	222		
	S.R. 52	558+12.00			155						90°		91	
(2)	S.R. 52	561+00.00				131					90°			
	S.R. 52	573+25.00		150							90°			90
	S.R. 52	593+20.00			127						83°			
	S.R. 52	616+87.15	129								90°		12	
	S.R. 52	623+00.00	95					56			90°		22	
(2),(3)	S.R. 52	638+55.00								380	75°			
(1),(2)	S.R. 52	664+34.83				89			58		82°47'21"			
	S.R. 52	687+00.00												
	S.R. 52	688+94.09												
	S.R. 52	699+85.00												
	WEST CEDAR LN.	10+65.99		45							73°28'51"		25	
	EAST CEDAR LN.	22+08.57	64								61°17'59"		15	
	TOWER HILL RD.	50+65.84	37								84°59'17"			
	HOOVER CEM. RD.	61+40.13	40								75°11'41"		14	
(2)	TOM SMITH RD.	71+93.05	77								80°04'50"			
	FISK RD.	91+07.36	49								89°57'51"		12	
	OLD ALLONS RD.	103+25.54					74				70°33'53"			168
	SAVAGE LN.	22+90.00	28								90°		20	
	ELMER LANG. RD.	110+65.03	55								86°37'57"		10	
(4)	OLD ALLONS RD.	121+48.22		135							80°53'28"		139	
	HIDDEN VALLEY LN.	164+00.00	46								80°			
	ALLRED RD.	202+10.55			36						77°11'18"			
	TOTALS		**620**	**724**	**318**	**220**	**74**	**56**	**58**	**380**		**222**	**360**	**534**

(1) SEE STD. D-FLU-1 FOR FLUME DETAILS AND QUANTITIES.
(2) RIPRAP QUANTITY ACCOUNTED FOR IN SPECIAL DITCH CALCULATIONS
(3) CULVERT GROUTED INSIDE EXISTING 48" CMP, OUTLET ENDWALL - USBR TYPE VI BAFFLED DISSIPATOR (QUANTITY CALCULATED INDEPENDENTLY)
(4) TO BE JACKED-IN-PLACE

CROSS DRAIN TABULATION CONT.

	LOCATION	STATION	END TREATMENT INLET TYPE	INLET DRAWING NO.	OUTLET TYPE	OUTLET DRAWING NO.	18IN ENDWALL 611-07.54 (3:1)	18IN ENDWALL 611-07.55 (4:1)	18IN ENDWALL 611-07.56 (6:1)	24IN ENDWALL 611-07.57 (3:1)	24IN ENDWALL 611-07.58 (4:1)	24IN ENDWALL 611-07.59 (6:1)	30IN ENDWALL 611-07.60 (3:1)	30IN ENDWALL 611-07.61 (4:1)	36IN ENDWALL 611-07.63 (3:1)	42IN ENDWALL 611-07.66 (3:1)	18IN SEW-ENDWALL 611-07.31 (6:1)	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL (LB.)	REMARKS
	S.R. 52	523+30.49	STRAIGHT	D-PE-4	STRAIGHT	D-PE-4												3.72	136		RIPRAP APRON
	S.R. 52	527+39.00	U	D-PE-24A	U	D-PE-24A						2									RIPRAP APRON
	S.R. 52	534+36.00	U	D-PE-24A	U	D-PE-24A					1	1									RIPRAP STILLING BASIN
	S.R. 52	558+12.00	U	D-PE-30A	U	D-PE-30A							1	1							RIPRAP APRON
(2)	S.R. 52	561+00.00	U	D-PE-36A	U	D-PE-36A									2						RIPRAP APRON
	S.R. 52	573+20.00	U	D-PE-24A	U	D-PE-24A				2											RIPRAP APRON
	S.R. 52	593+20.00	U	D-PE-30A	U	D-PE-30A							1	1							NO OUTLET PROTECTION REQD.
	S.R. 52	616+87.15	U	D-PE-18A	U	D-PE-18A	1		1												RIPRAP APRON
	S.R. 52	623+00.00	U	D-PE-18A	U	D-PE-9		1										1.07	153		MH DROP & RIPRAP APRON
(2),(3)	S.R. 52	638+55.00	B	D-PE-9	USBR VI													2.66	283		SEE NOTE (3) FOR REMARKS
(1),(2)	S.R. 52	664+34.83	U	D-PE-36A	A	D-PE-1									1			3.89	73		MH DROP, FLUME & RIPRAP DITCH
	S.R. 52	687+00.00																			QUANTITIES IN STORM DRAIN TAB
	S.R. 52	688+94.09																			EXISTING
	S.R. 52	699+85.00																			QUANTITIES IN STORM DRAIN TAB
	WEST CEDAR LN.	10+65.99	U	D-PE-24A	U	D-PE-24A				2											RIPRAP APRON
	EAST CEDAR LN.	22+08.57	U	D-PE-18A	U	D-PE-18A	2														RIPRAP APRON
	TOWER HILL RD.	50+65.84	U	D-PE-18A	U	D-PE-18A	2														NO OUTLET PROTECTION REQD.
	HOOVER CEM. RD.	61+40.13	U	D-PE-18A	U	D-SEW-1A	1										1				RIPRAP APRON
(2)	TOM SMITH RD.	71+93.05	U	D-PE-18A	U	D-PE-18A	2														RIPRAP APRON
	FISK RD.	91+07.36	U	D-PE-18A	U	D-PE-18A	2														RIPRAP APRON
	OLD ALLONS RD.	103+25.54	U	D-PE-42A	U	D-PE-42A										2					RIPRAP APRON
	SAVAGE LN.	22+90.00	U	D-PE-9	U	D-PE-9												2.14	306		RIPRAP APRON
	ELMER LANG. RD.	110+65.03	U	D-PE-18A	U	D-PE-18A	2														RIPRAP APRON
(4)	OLD ALLONS RD.	121+48.22	U	D-PE-24A	A	D-PE-1				1								1.86	68		RIPRAP APRON
	HIDDEN VALLEY LN.	164+00.00	U	D-PE-18A	U	D-PE-18A	2														NO OUTLET PROTECTION REQD.
	ALLRED RD.	202+10.55	U	D-PE-30A	NONE								1								INTO STORM DRAIN SYSTEM
	TOTALS						**14**	**1**	**1**	**5**	**1**	**3**	**3**	**2**	**3**	**2**	**1**	**15.34**	**1019**	**0**	

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 2 OF 7

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2P

PAVEMENT QUANTITIES

LOCATION	PAY ITEMS							
	303-01 (TON)	307-01.01 (TON)	307-01.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.10 (TON)	411-01.07 (TON)
S.R. 52	109435.0	26726.2	17422.3	270.0	1069.3	108.0	8522.6	3510.1
West Cedar Ln.	223.9		34.0	0.6	2.3	0.1	24.9	
East Cedar Ln.	292.4		44.4	0.7	3.0	0.2	32.5	
Andrew Cove Rd.	392.0		53.9	1.0	3.9	0.2	43.1	
Old S.R. 52	673.4	122.5	80.3	1.8	7.1	0.7	47.1	36.6
Tower Hill Rd.	255.6		42.7	0.6	2.3	0.1	25.0	
Hoover Cemetary Rd.	118.4		18.0	0.3	1.2	0.1	13.2	
Tom Smith Rd.	426.4		56.8	1.1	4.2	0.2	46.6	
Airport Rd.	240.9		33.1	0.6	2.4	0.1	26.5	
Fisk Rd.	175.0		23.3	0.4	1.7	0.1	19.1	
Old Allons Rd.	569.1		75.8	1.4	5.6	0.3	62.2	
Savage Ln.	232.5		35.3	0.6	2.3	0.1	25.9	
Elmer Langford Rd.	241.5		33.2	0.6	2.4	0.1	26.5	
Old Allons Rd. 2	351.2		46.8	0.9	3.5	0.2	38.4	
Fairview Ln.	884.2		145.2	2.3	9.0	0.5	99.3	
Roe Ln.	357.4		54.2	0.9	3.6	0.2	39.8	
Allred Rd.	426.3		68.3	1.0	4.1	0.2	45.3	
Hidden Valley Golf & CC Ln.	836.8		111.5	2.1	8.3	0.4	91.5	
Tower Hill Rd. 2	207.4		24.8	0.5	2.0	0.1	22.5	
Cash St.	45.5		6.9	0.1	0.5	0.1	24.9	
S.R. 111	339.8					0.8	112.6	73.0
S.R. 52 North Church						0.3	41.2	26.7
Temporary Run Arounds	18505.7		3651.8	112.9	53.5	8.7	1911.3	
Private Drives	4844.7		943.8				1157.0	
TOTALS	**140075.1**	**26848.7**	**23006.2**	**400.4**	**1192.1**	**121.7**	**12498.8**	**3646.3**

REMOVAL OF PIPES

SHEET NO.	STATION	LOCATION	DESCRIPTION	REMARKS
5	514+95.41	S.R. 52	98' OF 24" RCP	ENDWALLS
5	10+10.61	WEST CEDAR LN.	58' OF 15" CMP	ENDWALLS
5	22+02.48	EAST CEDAR LN.	72' OF 12" CMP	ENDWALLS
5	523+41.03	S.R. 52	85' OF 24" RCP	ENDWALLS
6	527+42.92	S.R. 52	75' OF 24" CMP	CONC. DITCH
6	50+49.28	TOWER HILL RD.	50' OF 15" CMP	CONC. DITCH
6	61+55.09	HOOVER CEMETARY RD.	29' OF 15" CMP	
6	534+31.99	S.R. 52	94' OF 15" CMP	ENDWALLS
6	539+31.85	S.R. 52	81' OF 18" CMP	ENDWALLS
8	558+05.70	S.R. 52	130' OF 48" CMP AND 40' OF 42" CMP	ENDWALLS
8	561+41.81	S.R. 52	98' OF 24" CMP	ENDWALLS
8	72+17.21	TOM SMITH RD.	55' OF 18" CMP	
9	573+53.84	S.R. 52	119' OF 18" CMP	ENDWALLS
10	91+30.38	FISK RD.	27' OF 15" RCP	
11	593+07.66	S.R. 52	93' OF 18" CMP	ENDWALLS
11	103+56.13	OLD ALLONS RD.	76' OF 18" CMP	ENDWALLS
11	110+46.06	ELMER LANGFORD RD.	78' OF 15" CMP	
12	121+48.22	OLD ALLONS RD. 2	137' OF 18" CMP	
13	617+57.13	S.R. 52	199' OF 24" CMP	ENDWALLS
13	622+95.08	S.R. 52	121' OF 24" CMP	ENDWALLS
15	648+63.77	S.R. 52	202' OF 30" CMP (TO BE CAPPED AND FILLED)	ENDWALLS & CONC. DITCH
16	663+11.13	S.R. 52	130' OF 36" CMP	ENDWALLS & CONC. DITCH
16	664+59.20	S.R. 52	135' OF 18" RCP	ENDWALLS & CONC. DITCH
16	667+92.78	S.R. 52	143' OF 24" CMP	ENDWALLS & CONC. DITCH
17	202+33.89	ALLRED RD.	79' OF 24" CMP	CONC. DITCH
17	162+85.87	HIDDEN VALLEY GOLF & CC LN.	47' OF 15" CMP	
17	164+02.24	HIDDEN VALLEY GOLF & CC LN.	31' OF 15" CMP	
17	170+45.04	TOWER HILL RD. 2	48' OF 15" CMP	CONC. DITCH
17	680+38.19	S.R. 52	90' OF 24" CMP	ENDWALLS & CONC. DITCH
19	699+87.49	S.R. 52	103' OF 18" RCP	ENDWALLS & CONC. DITCH

ESTIMATED GRADING QUANTITIES

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.) C.Y.	BORROW EXCAVATION		EXCESS EXC. WASTE C.Y.	EMB. C.Y.
		UNCL. - C.Y.	S. ROCK - TON		
S.R. 52 MAINLINE, SIDE ROADS & SPECIAL DITCHES	400006		125000	175479	125109
TOTALS	**400006**	**0**	**125000**	**175479**	**125109**

STORM DRAINAGE PIPES

SHEET NO.	FROM		TO		% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)				RCP CLASS IV	RIP-RAP CLASS B
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		18"	24"	30"	36"	42"	709-05.08 (TON)
17B	44	1102.53	45	1086.93	9.23	169					
17B	45	1085.93	46	1085.06	3.35			26			
17B	46	1084.89	47	1073.87	2.92			378			
17B	47	1073.70	48	1065.21	2.93			290			
17B	48	1065.04	50	1056.48	2.91			294			
17B	50	1056.33	52	1051.79	2.29			198			
18B	52	1051.62	53	1047.26	2.93			149			
18B	53	1047.09	54	1043.47	4.24			85			
18B	54	1042.97	55	1039.47	4.61				76		
17B	49	1062.92	51	1051.26	3.60	324					
18B	51	1051.09	55	1043.46	2.90	263					
18B	55	1039.26	56	1034.38	3.17				154		
18B	56	1023.38	58	1022.67	0.50					143	191
18B	61	1032.24	62	1029.73	1.29	195					
18B	62	1029.61	63	1028.84	0.54	143					
18B	63	1028.51	66	1026.79	0.50	344					
19B	66	1026.29	67	1024.90	0.50		276				
19B	67	1023.90	69	1023.65	0.51				49		
19B	71	1029.98	70	1025.69	1.83	235					
19B	70	1025.19	69	1024.32	1.98		44				
18B	64	1030.06	65	1027.08	0.86	347					
19B	65	1026.91	68	1025.53	0.50	276					
19B	68	1025.36	73	1023.89	3.00	49					
19B	72	1026.21	73	1023.89	5.16	45					
19B	69	1023.32	73	1022.93	0.50				74		
19B	73	1022.39	74	1022.28	0.44				25		88
TOTALS						**2390**	**320**	**1420**	**378**	**143**	**279**

STORM DRAINAGE ENDWALLS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	STANDARD DRAWING	18IN SEW-ENDWALL 611-07.31 (6:1)	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL (LB.)
18B	S.R. 52	687+00.00	-103.85	58	A	D-PE-1		4.72	79	
19B	S.R. 52	699+88.13	-64.67	74	A	D-PE-1		3.89	73	
19B	S.R. 52	702+71.41	55.78	71	U	D-PE-18A & D-SEW-1A	1			
TOTALS							**1**	**8.61**	**152**	**0**

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TABULATED QUANTITIES

SHEET 3 OF 7

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	20

DITCHES

ROAD	STATION		SIDE		SLOPE			DETAIL NO.	TYPE	TREATMENT							REMARKS
	FROM	TO	LT	RT	FORE (H:1)	BOTTOM WIDTH (FT.)	BACK (H:1)			RIP-RAP CLASS B (TONS)	RIP-RAP CLASS C (TONS)	GEOTEXTILE CLASS III (SY)	SOD (SY)	TRM CLASS II (SY)	TRM CLASS III (SY)	TRM CLASS IV (SY)	
S.R. 52	515+15.00	518+05.00	X		6	0	4	1	ROADSIDE V					806			
S.R. 52	518+75.00	519+20.00		X	6	0	3	3	ROADSIDE V					113			
S.R. 52	519+75.00	522+00.00		X	6	0	3	3	ROADSIDE V				563				
S.R. 52	522+95.00	524+00.00		X	6	0	3	3	ROADSIDE V					263			
S.R. 52	525+75.00	527+30.00		X	6	0	3	3	ROADSIDE V					388			
S.R. 52	527+30.00	528+28.00		X	6	0	3	3	ROADSIDE V				245				
S.R. 52	527+45.00	528+15.00	X		6	0	3	1	ROADSIDE V				175				
S.R. 52	527+50.00	527+50.00	X		3	0	3	1	INDEPENDENT T				72				
S.R. 52	530+75.00	536+00.00		X	6	0	3	3	ROADSIDE V				1313				
S.R. 52	532+80.00	534+05.00	X		4	0	4	1	ROADSIDE V					278			
S.R. 52	534+45.00	534+60.00	X		6	0	3	1	ROADSIDE V					38			
S.R. 52	534+60.00	536+00.00	X		6	0	3	1	ROADSIDE V				350				
S.R. 52	540+50.00	541+00.00		X	6	0	3	3	ROADSIDE V				125				
S.R. 52	542+80.00	545+15.00		X	6	0	4	3	ROADSIDE V				653				
S.R. 52	551+85.00	558+10.00		X	6	0	4	3	ROADSIDE V					1736			
S.R. 52	558+10.00	560+40.00		X	6	0	2	3	ROADSIDE V					511			
S.R. 52	560+10.00	561+35.00	X		3	2	3	5	ROADSIDE T		482	236		236			WWC-4 - STR-3
S.R. 52	560+70.00	563+00.00		X	6	0	3	3	ROADSIDE V					575			WWC-4 - EPH-4
S.R. 52	562+25.00	570+00.00	X		6	0	4	1	ROADSIDE V					2153			
S.R. 52	562+50.00	563+35.00		X	3	0	3	8	INDEPENDENT V		289	142					
S.R. 52	572+65.00	575+00.00		X	4	0	3	3	ROADSIDE V					457			
S.R. 52	573+40.00	575+40.00	X		3	0	10	1	ROADSIDE V					722			
S.R. 52	577+75.00	579+40.00	X		3	0	3	1	ROADSIDE V				275				
S.R. 52	579+40.00	580+00.00	X		6	0	10	1	ROADSIDE V					267			
S.R. 52	580+00.00	591+40.00		X	6	0	4	3	ROADSIDE V					3167			
S.R. 52	583+20.00	593+05.00	X		6	0	3	1	ROADSIDE V					2463			
S.R. 52	589+25.00	589+50.00		X	3	0	3	7	INDEPENDENT V					42			
S.R. 52	591+65.00	593+30.00		X	4	0	4	3	ROADSIDE V				367				WWC-5 - STR-5A
S.R. 52	593+40.00	596+55.00	X		6	0	2	1	ROADSIDE V					700			
S.R. 52	595+50.00	601+20.00		X	6	0	4	3	ROADSIDE V					1583			
S.R. 52	597+85.00	604+85.00	X		6	0	2	2	ROADSIDE V	3176		1556				1556	
S.R. 52	603+10.00	604+95.00		X	6	0	4	3	ROADSIDE V					514			
S.R. 52	604+95.00	606+15.00		X	4	0	4	4	ROADSIDE V	389		267			267		
S.R. 52	607+25.00	607+70.00	X		2	0	2	1	ROADSIDE V					50			
S.R. 52	608+35.00	609+15.00	X		6	0	4	1	ROADSIDE V					222			
S.R. 52	615+35.00	617+60.00		X	6	0	3	3	ROADSIDE V					563			
S.R. 52	615+95.00	616+90.00	X		6	0	3	1	ROADSIDE V					238			
S.R. 52	617+60.00	618+20.00		X	2	0	4	4	ROADSIDE V		204	100				100	
S.R. 52	618+80.00	619+90.00		X	6	0	2	3	ROADSIDE V					244			
S.R. 52	619+90.00	620+10.00		X	2	0	2	4	ROADSIDE V		45	22			22		
S.R. 52	620+80.00	623+25.00		X	2	0	2	4	ROADSIDE V		556	272			272		WWC-7 - EPH-7
S.R. 52	663+00.00	663+00.00		X	3	0	3	8	INDEPENDENT V	74		51			51		
S.R. 52	628+00.00	631+80.00		X	6	0	2	3	ROADSIDE V					844			
S.R. 52	631+50.00	633+10.00	X		6	0	1	1	ROADSIDE V					311			
S.R. 52	639+32.00	639+32.00		X	4	6	4	6	INDEPENDENT T		440	216					
S.R. 52	656+50.00	662+00.00	X		6	0	2	1	ROADSIDE V					1222			
S.R. 52	662+00.00	664+65.00	X		6	0	2	1	ROADSIDE V	859		589			589		
S.R. 52	664+34.00	664+34.00		X	2	6	2	6	INDEPENDENT T		133	65					
S.R. 52	664+90.00	670+40.00	X		6	0	2	1	ROADSIDE V					1222			
S.R. 52	673+90.00	679+60.00		X	6	0	6	4	ROADSIDE V		3879	1900					
S.R. 52	684+30.00	685+75.00	X		4	0	2	1	ROADSIDE V		493	242				242	
S.R. 52	702+85.00	703+85.00		X	4	0	4	3	ROADSIDE V				222				
WEST CEDAR	10+60.00	12+00.00	X		3	0	3	1	ROADSIDE V					140			
WEST CEDAR	10+75.00	12+00.00		X	3	0	3	3	ROADSIDE V					125			
EAST CEDAR	20+25.00	21+15.00	X		2	0	3	1	ROADSIDE V				75				
EAST CEDAR	20+25.00	20+90.00		X	2	0	3	3	ROADSIDE V				54				
EAST CEDAR	21+50.00	21+72.00	X		3	0	3	1	ROADSIDE V					22			
EAST CEDAR	21+75.00	22+18.94		X	2	0	2	3	ROADSIDE V					29			
ANDREW COVE	30+65.00	32+25.00	X		3	0	3	1	ROADSIDE V					160			
ANDREW COVE	30+60.00	32+00.00		X	3	0	4	3	ROADSIDE V					163			
SUB-TOTAL (THIS SHEET)										**4498**	**6522**	**5657**	**4488**	**22565**	**1201**	**1897**	

SHOWN IN PLANS ON EROSION CONTROL PHASE II SHEETS 27,27A-27P

DITCH QUANTITIES CONTINUED AND DETAILS SHOWN ON SHEET 2R

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMERCE
NO. 109425
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 4 OF 7

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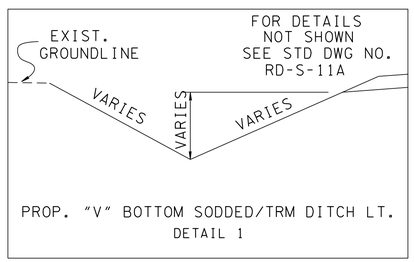
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2R

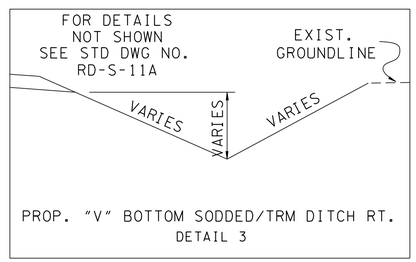
DITCHES (Cont'd)

ROAD	STATION		SIDE		SLOPE			DETAIL NO.	TYPE	TREATMENT							REMARKS
	FROM	TO	LT	RT	FORE (H:1)	BOTTOM WIDTH (FT.)	BACK (H:1)			RIP-RAP CLASS B (TONS)	RIP-RAP CLASS C (TONS)	GEOTEXTILE CLASS III (SY)	SOD (SY)	TRM CLASS II (SY)	TRM CLASS III (SY)	TRM CLASS IV (SY)	
OLD S.R. 52	41+00.00	42+85.00	X		4	0	4	1	ROADSIDE V					247			
OLD S.R. 52	42+50.00	42+60.00		X	4	0	4	3	ROADSIDE V					13			
HOOVER CEMETERY	61+20.00	61+45.00	X		3	0	3	1	ROADSIDE V					25			
HOOVER CEMETERY	61+00.00	61+30.00		X	3	0	3	3	ROADSIDE V					30			
TOM SMITH	70+10.00	70+50.00	X		3	0	3	1	ROADSIDE V					40			
TOM SMITH	70+10.00	70+50.00		X	3	0	3	3	ROADSIDE V					40			
TOM SMITH	70+50.00	72+00.00	X		3	0	3	1	ROADSIDE V				150				
TOM SMITH	70+50.00	71+80.00		X	3	0	3	3	ROADSIDE V				130				
AIRPORT	81+40.00	82+05.00		X	4	0	4	3	ROADSIDE V					87			
AIRPORT	81+60.00	82+10.00	X		4	0	4	1	ROADSIDE V				67				
FISK	90+60.00	91+05.00		X	3	0	3	3	ROADSIDE V					45			
FISK	90+70.00	91+05.00	X		3	0	3	1	ROADSIDE V					35			
SAVAGE	21+50.00	22+90.00	X		2	0	3	1	ROADSIDE V					117			
SAVAGE	21+50.00	22+90.00		X	2	0	3	3	ROADSIDE V					117			
SAVAGE	22+90.00	23+20.00		X	2	0	3	3	ROADSIDE V				25				
OLD ALLONS	100+50.00	102+85.00	X		3	0	3	1	ROADSIDE V					235			
OLD ALLONS	100+65.00	100+95.00		X	2	0	2	3	ROADSIDE V					20			
OLD ALLONS	101+50.00	102+70.00		X	3	0	3	3	ROADSIDE V					120			
OLD ALLONS	103+00.00	103+30.00		X	3	0	3	4	ROADSIDE V	44		30			30		
ELMER LANGFORD	110+65.00	111+50.00	X		3	0	3	1	ROADSIDE V					85			
ELMER LANGFORD	110+70.00	111+50.00		X	3	0	3	3	ROADSIDE V					80			
OLD ALLONS 2	121+50.00	122+00.00	X		3	0	3	1	ROADSIDE V					50			
OLD ALLONS 2	121+50.00	122+00.00		X	3	0	3	3	ROADSIDE V					50			
FAIRVIEW	142+50.00	143+00.00	X		3	0	2	1	ROADSIDE V				42				
FAIRVIEW	143+00.00	145+15.00	X		3	0	2	2	ROADSIDE V	261		179			179		
FAIRVIEW	146+00.00	146+55.00	X		3	0	10	1	ROADSIDE V								ROCK BOTTOM
ROE	151+30.00	153+00.00		X	3	0	3	4	ROADSIDE V	248		170			170		
ALLRED	200+10.00	202+10.00		X	2	0	2	3	ROADSIDE V					133			
HIDDEN VALLEY	161+20.00	163+95.00		X	3	0	2	3	ROADSIDE V					229			
HIDDEN VALLEY	164+50.00	164+75.00		X	3	0	4	3	ROADSIDE V					29			
HIDDEN VALLEY	163+50.00	164+75.00	X		3	0	4	1	ROADSIDE V					146			
S.R. 111	216+85.00	217+35.00	X		6	0	4	1	ROADSIDE V				83				
S.R. 111	219+00.00	219+75.00	X		6	0	4	1	ROADSIDE V				125				
SUB-TOTAL (THIS SHEET)										553	0	379	622	1973	379	0	
SUB-TOTAL (SHEET 2Q)										4498	6522	5657	4488	22565	1201	1897	
TOTALS										**5051**	**6522**	**6036**	**5109**	**24537**	**1580**	**1897**	

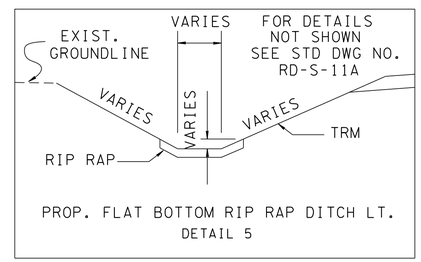
DITCH QUANTITIES CONTINUED FROM SHEET 2Q



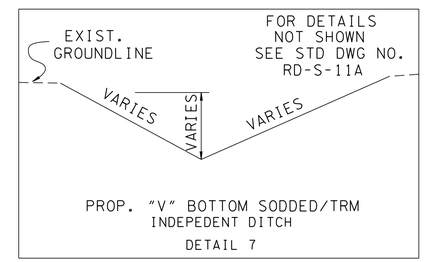
PROP. "V" BOTTOM SODDED/TRM DITCH LT.
DETAIL 1



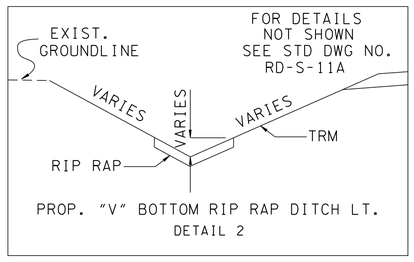
PROP. "V" BOTTOM SODDED/TRM DITCH RT.
DETAIL 3



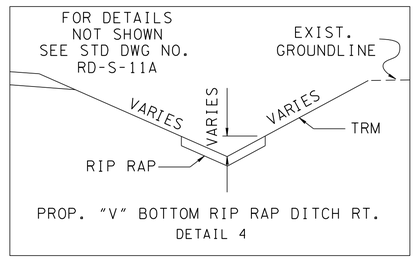
PROP. FLAT BOTTOM RIP RAP DITCH LT.
DETAIL 5



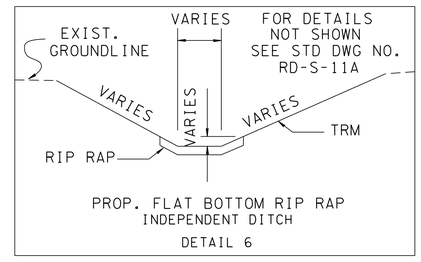
PROP. "V" BOTTOM SODDED/TRM
INDEPEDENT DITCH
DETAIL 7



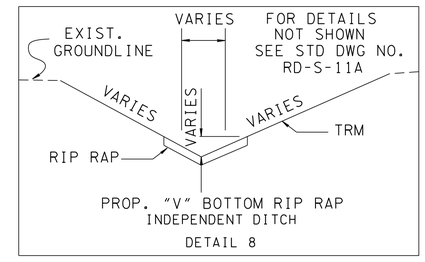
PROP. "V" BOTTOM RIP RAP DITCH LT.
DETAIL 2



PROP. "V" BOTTOM RIP RAP DITCH RT.
DETAIL 4



PROP. FLAT BOTTOM RIP RAP
INDEPENDENT DITCH
DETAIL 6



PROP. "V" BOTTOM RIP RAP
INDEPENDENT DITCH
DETAIL 8

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 5 OF 7

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	25

SIDE DRAIN TABULATION

STATION	LOCATION		SURFACE WIDTH	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 10 FT.					END TREATMENT				REMARKS
									TYPE	DRAWING NO.	18IN SEW-ENDWALL 611-07.31 (6:1)	24IN SEW-ENDWALL 611-07.32 (6:1)	
	LT	RT	(L.F.)	18"	24"	30"	36"	38"x24"					
SR-52 - 512+66.91	X		20	35									NO END TREATMENT REQD.
SR-52 - 517+07.56		X	14		26								NO END TREATMENT REQD.
SR-52 - 518+18.66	X		16	26									NO END TREATMENT REQD.
EAST CEDAR LN. - 20+58.23		X	16	32									NO END TREATMENT REQD.
SR-52 - 521+76.49	X		10					24					NO END TREATMENT REQD.
SR-52 - 522+25.00		X	16					26					NO END TREATMENT REQD.
SR-52 - 523+09.49	X		12			28							NO END TREATMENT REQD.
SR-52 - 525+59.71		X	10		30								NO END TREATMENT REQD.
SR-52 - 526+22.29	X		14	34									NO END TREATMENT REQD.
ANDREW COVE RD. - 31+23.34	X		24	40									NO END TREATMENT REQD.
SR-52 - 532+74.67		X	32			50							NO END TREATMENT REQD.
SR-52 - 534+02.51		X	24			42							NO END TREATMENT REQD.
SR-52 - 534+96.57		X	30	52									NO END TREATMENT REQD.
SR-52 - 536+50.80	X		12	30									NO END TREATMENT REQD.
SR-52 - 538+15.58	X		12	30									NO END TREATMENT REQD.
SR-52 - 538+25.68		X	12	30									NO END TREATMENT REQD.
SR-52 - 540+77.43		X	10	25									NO END TREATMENT REQD.
SR-52 - 544+73.41	X		12	28									NO END TREATMENT REQD.
SR-52 - 545+41.28		X	16		35								NO END TREATMENT REQD.
SR-52 - 546+70.67		X	10		30								NO END TREATMENT REQD.
SR-52 - 547+49.58	X		30	48									NO END TREATMENT REQD.
SR-52 - 548+56.88	X		40	58									NO END TREATMENT REQD.
SR-52 - 549+11.05		X	10		30								NO END TREATMENT REQD.
SR-52 - 550+51.29	X		28	48									NO END TREATMENT REQD.
SR-52 - 554+12.07		X	10	30									NO END TREATMENT REQD.
SR-52 - 554+64.16	X		34	75									NO END TREATMENT REQD.
SR-52 - 559+81.18	X		10				60						NO END TREATMENT REQD.
TOM SMITH RD. - 71+50.00		X	16	30									NO END TREATMENT REQD.
SR-52 - 563+84.62	X		16		30								NO END TREATMENT REQD.
SR-52 - 564+36.26		X	14	30									NO END TREATMENT REQD.
SR-52 - 565+62.32		X	10	25									NO END TREATMENT REQD.
SR-52 - 565+86.04	X		18		34								NO END TREATMENT REQD.
SR-52 - 566+77.31		X	16	35									NO END TREATMENT REQD.
SR-52 - 567+83.76	X		12	24									NO END TREATMENT REQD.
SR-52 - 568+60.45	X		10	24									NO END TREATMENT REQD.
SR-52 - 575+57.37	X		10	20									NO END TREATMENT REQD.
SR-52 - 575+69.59		X	40		60								NO END TREATMENT REQD.
SR-52 - 578+80.55	X		28	45					U	D-PE-18A & D-SEW-1A	2		2 ENDWALLS REQD.
SR-52 - 582+40.40		X	36		55				U	D-PE-24A & D-SEW-1A		1	1 ENDWALL REQD.
SR-52 - 583+08.03	X		10	22									NO END TREATMENT REQD.
SR-52 - 584+20.29	X		10	28									NO END TREATMENT REQD.
SR-52 - 584+46.26		X	38		60				U	D-PE-24A & D-SEW-1A		1	1 ENDWALL REQD.
SR-52 - 586+65.00	X		10		60								NO END TREATMENT REQD.
SR-52 - 587+09.15		X	16		30								NO END TREATMENT REQD.
SR-52 - 587+45.84	X		16		30								NO END TREATMENT REQD.
SR-52 - 588+27.28		X	15		25								NO END TREATMENT REQD.
SR-52 - 588+47.47	X		10		25								NO END TREATMENT REQD.
SR-52 - 589+04.68	X		14		30								NO END TREATMENT REQD.
SR-52 - 589+61.04		X	12			26							NO END TREATMENT REQD.
SR-52 - 590+50.13	X		24		40								NO END TREATMENT REQD.
SR-52 - 591+51.30	X		10		35								NO END TREATMENT REQD.
SR-52 - 591+51.98		X	10			26							NO END TREATMENT REQD.
SR-52 - 592+60.00	X		10		22								NO END TREATMENT REQD.
SR-52 - 594+41.02	X		10		22								NO END TREATMENT REQD.
SR-52 - 595+25.00	X		14		26								NO END TREATMENT REQD.
OLD ALLONS RD. - 102+84.57		X	20	35									NO END TREATMENT REQD.
SR-52 - 615+15.58		X	12			30							NO END TREATMENT REQD.
SR-52 - 615+81.24	X		10	26									NO END TREATMENT REQD.
SR-52 - 618+50.44		X	16		60								NO END TREATMENT REQD.
SR-52 - 635+00.00		X	16		45								UNDER ROE LN. NO TREAT. REQD.
SR-52 - 668+23.77 & 668+42.75		X	30		50								NO END TREATMENT REQD.
HIDDEN VALLEY GOLF & CC LN. - 161+05.69	X		10	36									NO END TREATMENT REQD.
SR-52 - 675+79.41		X	20	45									NO END TREATMENT REQD.
SR-52 - 686+01.28	X		24										80' JACKED-IN-PLACE, NO TREAT. REQD.
SR-52 - 687+50.44		X	30		80								NO END TREATMENT REQD.
TOTALS				**1046**	**970**	**202**	**60**	**50**			**2**	**2**	

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 6 OF 7

22-JAN-2015 07:27
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2T

ESTIMATED LIVE STAKE SPECIES STR-2

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	33	EACH
802-02.31	CUTTINGS: SALIX SERICEA (18IN-24IN)	33	EACH
802-02.34	CUTTINGS: SALIX INTERIOR (18IN-24IN)	33	EACH
802-02.35	CUTTINGS: CEPHALANTHUS OCCIDENTALIS (18IN-24IN)	33	EACH
802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	33	EACH
802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	33	EACH
TOTAL		198	

ESTIMATED TREE QUANTITIES STR-2

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-11.04	ACER SACCHARUM (SUGAR MAPLE 2-5FT CNTNR GRWN)	20	EACH
802-11.11	CERCIS CANADENSIS (REDBUD 2-5FT CNTNR GRWN)	20	EACH
802-11.12	CORNUS FLORIDA (FLOWERING DOGWOOD 2-5FT CNTNR GRWN)	20	EACH
802-11.66	PRUNUS ANGUSTIFOLIA (CHICKASAW PLUM 2-5FT CNTNR GRWN)	20	EACH
802-13.15	PHYSOCARPUS OPULIFOLIUS (NINEBARK) 2-5FT C.G.	20	EACH
802-12.06	ASIMINA TRILOBA (PAWPAW SEEDLNG B.R.)	20	EACH
802-13.63	VACCINIUM STAMINEUM (DEERBERRY SDLNG B.R.)	20	EACH
802-13.67	RHODODENDRON CALENDULACEUM (FLAMING AZALEA SDLING B.R.)	20	EACH
802-13.56	HYDRANGEA QUERCIFOLIA (OAKLF HYDRANGEA SDLNG BARE ROOT)	20	EACH
802-12.65	MALUS ANGUSTIFOLIA (SOUTHERN CRABAPPLE SEEDLING B.R.)	20	EACH
802-13.72	RHUS TYPHINA (STAGHORN SUMAC SDLING B.R.)	20	EACH
TOTAL		220	

LIST THE TREES AND SHRUBS IN ORDER OF DOMINANCE. THE FIRST FIVE SHOULD BE USED FOR MITIGATION. IF ANY OF THESE ARE NOT AVAILABLE, EITHER OF THE LAST TWO ON THE LIST CAN BE SUBSTITUTED

ESTIMATED LIVE STAKE SPECIES STR-4

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	9	EACH
802-02.31	CUTTINGS: SALIX SERICEA (18IN-24IN)	9	EACH
802-02.34	CUTTINGS: SALIX INTERIOR (18IN-24IN)	9	EACH
802-02.35	CUTTINGS: CEPHALANTHUS OCCIDENTALIS (18IN-24IN)	9	EACH
802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	9	EACH
802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	9	EACH
TOTAL		54	

ESTIMATED TREE QUANTITIES STR-4

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-11.12	CORNUS FLORIDA (FLOWERING DOGWOOD 2-5FT CNTNR GRWN)	3	EACH
802-11.11	CERCIS CANADENSIS (REDBUD 2-5FT CNTNR GRWN)	3	EACH
802-13.15	PHYSOCARPUS OPULIFOLIUS (NINEBARK) 2-5FT C.G.	3	EACH
802-11.62	CORNUS ALTERNIFOLIA (ALTERNATE LEAF DGWOOD 2-5FT CNTNR GRWN)	3	EACH
802-11.66	PRUNUS ANGUSTIFOLIA (CHICKASAW PLUM 2-5FT CNTNR GRWN)	3	EACH
802-12.65	MALUS ANGUSTIFOLIA (SOUTHERN CRABAPPLE SEEDLING B.R.)	3	EACH
802-13.72	RHUS TYPHINA (STAGHORN SUMAC SDLING B.R.)	3	EACH
802-13.67	RHODODENDRON CALENDULACEUM (FLAMING AZALEA SDLING B.R.)	3	EACH
802-13.63	VACCINIUM STAMINEUM (DEERBERRY SDLNG B.R.)	3	EACH
TOTAL		27	

LIST THE TREES AND SHRUBS IN ORDER OF DOMINANCE. THE FIRST FIVE SHOULD BE USED FOR MITIGATION. IF ANY OF THESE ARE NOT AVAILABLE, EITHER OF THE LAST TWO ON THE LIST CAN BE SUBSTITUTED

ESTIMATED TREE QUANTITIES WTL-1

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-11.04	ACER SACCHARUM (SUGAR MAPLE 2-5FT CNTNR GRWN)	2	EACH
802-11.40	SALIX NIGRA (BLACK WILLOW 2-5FT CNTNR GRWN)	2	EACH
802-11.26	PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN)	2	EACH
802-11.16	FRAXINUS PENNSYLVANICA (GREEN ASH 2-5FT CNTNR GRWN)	2	EACH
802-11.44	ULMUS AMERICANA (AMERICAN ELM 2-5FT CNTNR GRWN)	2	EACH
802-13.53	CEPHALANTHUS OCCIDENTALIS (BUTTONBUSH SDLNG BARE ROOT)	2	EACH
802-12.03	ACER SACCHARINUM (SILVER MAPLE SEEDLNG B.R.)	2	EACH
802-12.40	SALIX NIGRA (BLACK WILLOW SEEDLNG B.R.)	2	EACH
802-12.16	FRAXINUS PENNSYLVANICA (GREEN ASH SEEDLNG B.R.)	2	EACH
802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	2	EACH
802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	2	EACH
TOTAL		22	

ESTIMATED LIVE STAKE SPECIES STR-5

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	41	EACH
802-02.31	CUTTINGS: SALIX SERICEA (18IN-24IN)	41	EACH
802-02.34	CUTTINGS: SALIX INTERIOR (18IN-24IN)	41	EACH
802-02.35	CUTTINGS: CEPHALANTHUS OCCIDENTALIS (18IN-24IN)	41	EACH
802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	41	EACH
802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	41	EACH
TOTAL		246	

ESTIMATED TREE QUANTITIES STR-5

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-11.12	CORNUS FLORIDA (FLOWERING DOGWOOD 2-5FT CNTNR GRWN)	22	EACH
802-11.11	CERCIS CANADENSIS (REDBUD 2-5FT CNTNR GRWN)	22	EACH
802-13.15	PHYSOCARPUS OPULIFOLIUS (NINEBARK) 2-5FT C.G.	22	EACH
802-11.62	CORNUS ALTERNIFOLIA (ALTERNATE LEAF DGWOOD 2-5FT CNTNR GRWN)	22	EACH
802-11.66	PRUNUS ANGUSTIFOLIA (CHICKASAW PLUM 2-5FT CNTNR GRWN)	22	EACH
802-12.65	MALUS ANGUSTIFOLIA (SOUTHERN CRABAPPLE SEEDLING B.R.)	22	EACH
802-13.72	RHUS TYPHINA (STAGHORN SUMAC SDLING B.R.)	22	EACH
802-13.67	RHODODENDRON CALENDULACEUM (FLAMING AZALEA SDLING B.R.)	22	EACH
802-13.63	VACCINIUM STAMINEUM (DEERBERRY SDLNG B.R.)	22	EACH
TOTAL		198	

LIST THE TREES AND SHRUBS IN ORDER OF DOMINANCE. THE FIRST FIVE SHOULD BE USED FOR MITIGATION. IF ANY OF THESE ARE NOT AVAILABLE, EITHER OF THE LAST TWO ON THE LIST CAN BE SUBSTITUTED

ESTIMATED TREE QUANTITIES WTL-13

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
802-11.04	ACER SACCHARUM (SUGAR MAPLE 2-5FT CNTNR GRWN)	2	EACH
802-11.40	SALIX NIGRA (BLACK WILLOW 2-5FT CNTNR GRWN)	2	EACH
802-11.26	PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN)	2	EACH
802-11.16	FRAXINUS PENNSYLVANICA (GREEN ASH 2-5FT CNTNR GRWN)	2	EACH
802-11.44	ULMUS AMERICANA (AMERICAN ELM 2-5FT CNTNR GRWN)	2	EACH
802-13.53	CEPHALANTHUS OCCIDENTALIS (BUTTONBUSH SDLNG BARE ROOT)	2	EACH
802-12.03	ACER SACCHARINUM (SILVER MAPLE SEEDLNG B.R.)	2	EACH
802-12.40	SALIX NIGRA (BLACK WILLOW SEEDLNG B.R.)	2	EACH
802-12.16	FRAXINUS PENNSYLVANICA (GREEN ASH SEEDLNG B.R.)	2	EACH
802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	2	EACH
802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	2	EACH
TOTAL		22	

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 104423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 7 OF 7

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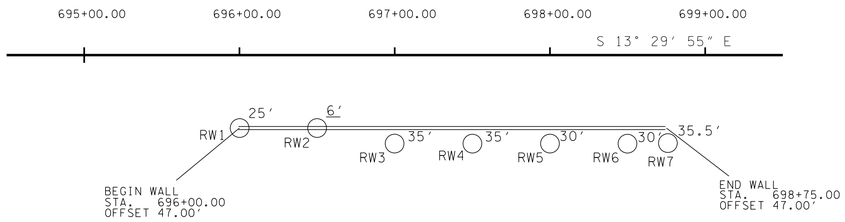
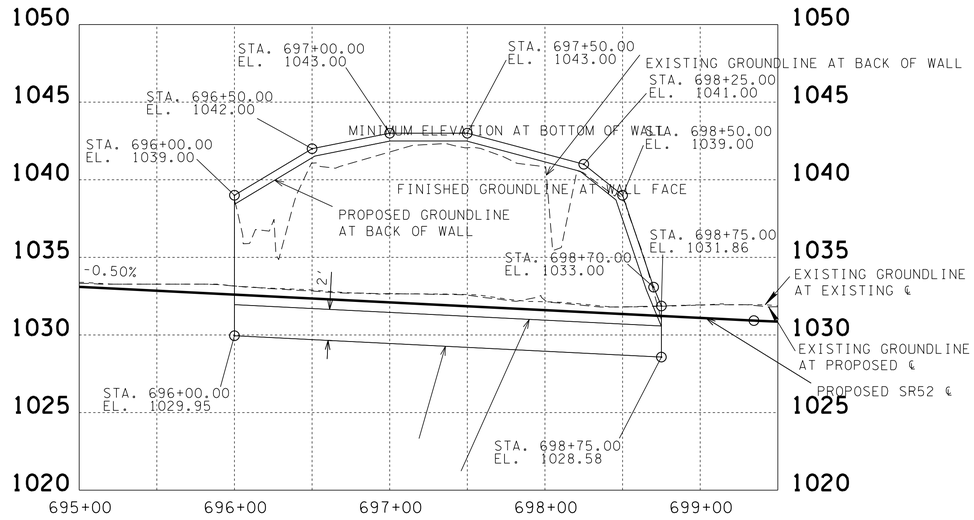
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD/NH-52(48)	2G
CONST.	2014	APD/NH-52(48)	2U

WALL PLAN VIEW (1"=50')



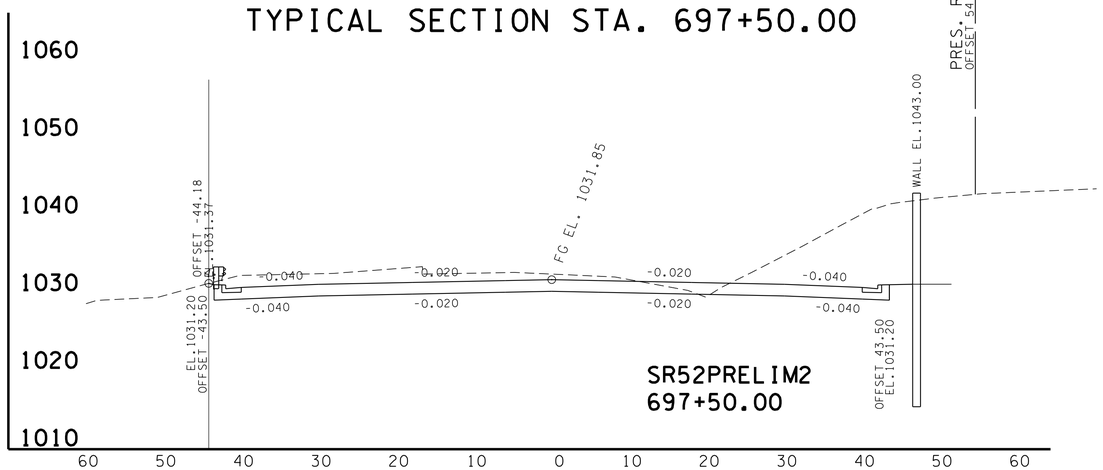
WALL ELEVATION VIEW

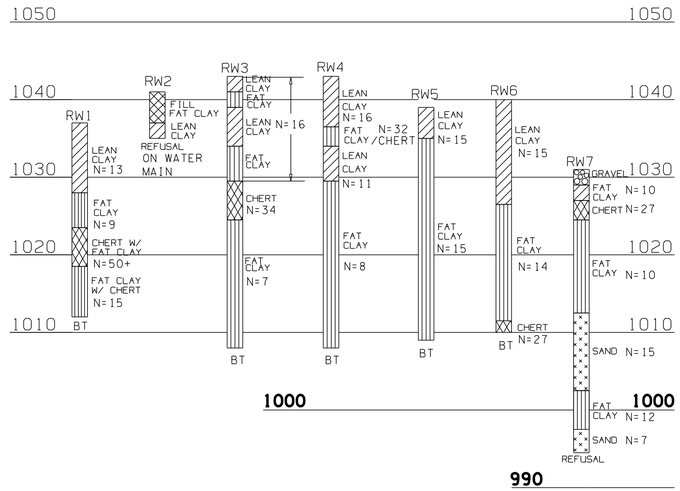


WALL FACE

AREA = 3284.28 FT²

TYPICAL SECTION STA. 697+50.00





BORING NO.	STATION	OFFSET	GROUND ELEV.	ROCK ELEV.
RW1	696+00	42'RT	1037.0	-----
RW2	696+50	47'RT	1041.0	-----
RW3	697+00	57'RT	1043.0	-----
RW4	697+50	57'RT	1043.0	-----
RW5	698+00	57'RT	1039.0	-----
RW6	698+50	57'RT	1040.0	-----
RW7	698+75	57'RT	1031.0	994.5

NOTE:

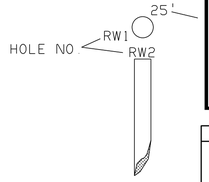
BORING DEPICTIONS SHOWN ON FOUNDATION DATA SHEET INDICATE GENERAL SOIL AND ROCK TYPES AT THE SPECIFIC BORING LOCATIONS.

ACCEPTABLE WALL TYPE

SOLDIER PILE AND LAGGING WALL (UNANCHORED)

LEGEND

BT = BORING TERM



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL
CONCEPTUAL DRAWING
STATE ROUTE 52
STA.696+00 TO STA. 698+75
OVERTON COUNTY

22-JAN-2015 07:28
C:\D DRIVE\OVERTON\SR-52\002U.sht

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	2UI

RETAINING WALL DESIGN NOTES

UNLESS SPECIFICALLY STATED OTHERWISE IN THE CONTRACT PLANS, THE BIDDING FOR, THE DESIGN OF AND THE CONSTRUCTION OF RETAINING WALLS SHOWN IN THE PLANS SHALL BE GOVERNED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION 624 REGARDING RETAINING WALLS. THIS SPECIAL PROVISION SHALL BE CONSIDERED AS ONE OF THOSE DOCUMENTS WHICH THE BIDDER/CONTRACTOR HAS EXAMINED AND MADE HIMSELF FAMILIAR WITH AS DESCRIBED IN SECTION 102.04 – EXAMINATION OF THE SITE, THE WORK, THE PLANS, AND THE SPECIFICATIONS IN THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

EXCAVATION FOR THE WALL AND/OR ITS FOOTING SHALL NOT BE ACCOMPLISHED UNTIL THE CONTRACTOR HAS SUBMITTED WALL DESIGNS AND CALCULATIONS AND HAS BEEN ISSUED AN APPROVED SET OF WALL PLANS AND HAS LABOR AND MATERIAL RESOURCES AVAILABLE TO BEGIN AND CONTINUE WALL CONSTRUCTION IMMEDIATELY AFTER EXCAVATION.

THIS WALL SHALL BE DESIGNED IN ACCORDANCE WITH LRFD DESIGN PROCEDURES AND REQUIREMENTS AS DESCRIBED IN 1) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2012 AND INTERIMS AND 2) PUBLICATION FHWA-IF-99-015/FHWA GEC 004 GROUND ANCHORS AND ANCHORED SYSTEMS, JUNE 1999.

FOR PROPRIETARY WALL SYSTEMS THAT HAVE BEEN APPROVED AS SHOWN IN SPECIAL PROVISION 624, THE WALL DESIGNER SHALL BE RESPONSIBLE FOR PROVIDING WALL DESIGNS INCORPORATING MATERIALS AND COMPONENTS (I.E. REINFORCEMENT CONNECTION DEVICES, SPECIFIC MANUFACTURER AND PROPERTIES OF GEOGRID) AS WAS ORIGINALLY SUBMITTED AND APPROVED BY TDOT, IF A MATERIAL AND/OR COMPONENT OF THE WALL SYSTEM HAVE BEEN MODIFIED FROM THE ORIGINALLY APPROVED SYSTEM, A WALL DESIGN AND SET OF PLANS AND CALCULATIONS FOR THIS WALL SYSTEM CANNOT BE SUBMITTED FOR REVIEW AND APPROVAL UNTIL THE WALL SYSTEM DESIGNER WHO ORIGINALLY SUBMITTED THE WALL SYSTEM FOR APPROVAL BY TDOT SUBMITS A REQUEST FOR RE-APPROVAL UTILIZING THE MODIFIED ELEMENTS OF THE WALL. THIS SUBMITTAL DOES NOT GUARANTEE APPROVAL OF THE MODIFIED SYSTEM. IF THIS RE-APPROVAL PROCESS DOES NOT MEET THE CONTRACTOR'S SCHEDULE OR IF THE MODIFIED SYSTEM IS NOT APPROVED, THE CONTRACTOR/WALL DESIGNER SHALL PROVIDE A WALL DESIGN FOR ONE OF THE APPROVED SYSTEMS AT NO CHANGE IN CONTRACT PRICE FOR THE RETAINING WALL AND NO CHANGE IN PROJECT SCHEDULE REQUIREMENTS WILL BE ALLOWED.

THE WALL DESIGNER SHALL PROVIDE RETAINING WALL PLANS, DETAILS AND CALCULATIONS AS REQUIRED BY SPECIAL PROVISION 624 AND AS REQUIRED HEREIN.

- THE WALL DESIGNER SHALL UTILIZE THE GEOTECHNICAL PARAMETERS AND RESISTANCE FACTORS AS PROVIDED FOR EACH PROJECT RETAINING WALL ON THE WALL CONCEPT SHEET AND RELATED RETAINING WALL SHEETS TO PREPARE AND SUBMIT DESIGN CALCULATIONS. LOAD FACTORS AND OTHER PERTINENT DESIGN REQUIREMENTS PROVIDED IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2012 AND INTERIMS SHALL BE USED FOR NON-MSE WALLS AND PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS.

- CALCULATIONS FOR BOTH INTERNAL AND EXTERNAL STABILITY (SLIDING, ECCENTRICITY, AND BEARING CAPACITY-GLOBAL STABILITY AND SETTLEMENT BEING THE EXCEPTIONS) SHALL BE PROVIDED FOR EACH CRITICAL WALL SECTION WHICH DEMONSTRATES THE REQUIRED CAPACITY TO DEMAND RATIO OF 1.0 IS MET UTILIZING THE DESIGN PARAMETERS PROVIDED. FOR MSE WALLS, THE WALL DESIGNER MUST ADJUST THE REINFORCEMENT LENGTHS BEYOND THOSE MINIMUM REQUIRED LENGTHS, IF REQUIRED, TO MEET BOTH INTERNAL AND EXTERNAL REQUIREMENTS. THE WALL DESIGNER/CONTRACTOR PLANS MUST INCLUDE ANY FOUNDATION IMPROVEMENTS AS REQUIRED HEREIN ON THE WALL DESIGNER/CONTRACTOR'S WALL ELEVATION VIEWS AND ANY CROSS-SECTIONAL DETAIL DRAWINGS.

- UNLESS OTHERWISE STATED, THE WALL DESIGNER CAN ASSUME THAT MINIMUM GLOBAL STABILITY AND SETTLEMENT CRITERIA IS ACHIEVED WITH A WALL DESIGN MEETING OTHER MINIMUM EXTERNAL STABILITY REQUIREMENTS AND ASSUMING WALL FOUNDATION CONDITIONS ARE MET. WHILE THE WALL DESIGNER'S DESIGN MUST DEMONSTRATE COMPLIANCE WITH EXTERNAL STABILITY REQUIREMENTS AS DISCUSSED ABOVE, THE WALL DESIGNER MAY PROVIDE CERTIFICATION (BY SIGNING AND STAMPING BY PROFESSIONAL ENGINEER REGISTERED IN STATE OF TENNESSEE) OF THE WALLS PLANS AND CALCULATIONS "FOR INTERNAL STABILITY ONLY".

- LOAD COMBINATIONS STRENGTH I, EXTREME EVENT I, AND EXTREME EVENT II AS GIVEN IN TABLE 4-1 OF PUBLICATION FHWA-NHI-10-024/FHWA GEC 011, DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, NOVEMBER 2009 FOR MSE WALLS SHALL BE EVALUATED FOR MSE WALLS. LOAD COMBINATIONS FOR OTHER WALL TYPES SHALL BE AS GIVEN IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 2012 AND INTERIMS.

NOTE REGARDING CONSTRUCTION SLOPES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE EXCAVATION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE STATE AND LOCAL REGULATIONS REGARDING CONSTRUCTION SLOPES AND TRENCHES. IN ADDITION TO THE FOLLOWING APPLICABLE REGULARTORY REQUIREMENTS, AS A MINIMUM REQUIREMENT, ALL TEMPORARY CONSTRUCTION SLOPES REQUIRED FOR SITE ACCESS SHALL NOT EXCEED THREE (3) VERTICAL FEET. THE CONTRACTOR BUILDING THE WALL SHALL ENSURE THAT THESE TEMPORARY BACK SLOPES ARE NOT AND DO NOT BECOME UNSTABLE. IF SLOPE IS UNSTABLE, BECOMES UNSTABLE, IS CUT STEEPER THAN A 1:1 SLOPE OR IS UNACCEPTABLE FOR ANOTHER REASON, THEN TEMPORARY SHORING SHALL BE USED. ANY UNUSUAL SOIL CONDITIONS OTHER THAN THOSE ASSUMED SHOULD BE REPORTED TO THE PROJECT ENGINEER.

ACCEPTABLE WALL TYPES

THE RETAINING WALL SHALL BE ONE OF THE WALL TYPES LISTED BELOW. FOR RETAINING WALL SYSTEMS LISTED AS BIN WALL, CRIB WALL, MSE (EITHER SEGMENTAL PANEL OR MODULAR BLOCK) AND GROUND ANCHOR WALL, THE SPECIFIC WALL SYSTEM SUPPLIER/INSTALLER SHALL BE ONE OF THOSE LISTED AS PRE-APPROVED IN THE SPECIAL PROVISION 624.

- SOLDIER PILE AND LAGGING WALL (UNANCHORED)

TABLE 1-DESIGN REQUIREMENTS AND PARAMETERS

DESCRIPTION	SOLDIER PILE AND LAGGING WALL (UNANCHORED)	NOTE *
DESIGN LIFE	75 YEARS	
SEISMIC ACCELERATION COEFFICIENT (As)	0.071	
PULLOUT RESISTANCE OF ANCHORS		
COHESIONLESS (GRANULAR) SOILS	NA	1
COHESIVE SOILS	NA	
ROCK	NA	
WHERE PROOF TESTS ARE CONDUCTED	NA	2
TENSILE RESISTANCE OF ANCHOR TENDON		
MILD STEEL, (E.G., ASTM A615 BARS)	NA	3
HIGH STRENGTH STEEL (E.G., ASTM A722 BARS)	NA	
FLEXURAL CAPACITY OF VERTICAL ELEMENTS	0.90	
RESISTANCE FACTORS OF A SINGLE DRIVEN PILE		
STATIC ANALYSIS METHODS		
SLIDE BEARING RESISTANCE AND END BEARING: CLAY AND MIXED SOILS		
a-METHOD (TOMLINSON, 1987; SKEMPTON, 1951)	0.35	
b-METHOD (ESRIG & KIRBY, 1997; SKEMPTON 1951)	0.25	
l -METHOD (VIJAYVERGIYA & FOCHT, 1972; SKEMPTON 1951)	0.40	
SLIDE BEARING RESISTANCE AND END BEARING: SAND		
NORDLUND/THURMAND METHOD (HANNIGAN ET AL, 2005	0.45	
SPT-METHOD (MEYERHOF)	0.30	
CPT-METHOD (SCHMERTMANN)	0.50	
END BEARING IN ROCK (CANADIAN GEOTECH SOCIETY)	0.45	
LATERAL GEOTECHNICAL RESISTANCE OF A SINGLE PILE		
ALL SOILS AND ROCK	1.0	
RESISTANCE FACTORS OF A SINGLE DRILLED PILE/SHAFT		
SIDE RESISTANCE IN CLAY		
a-METHOD (O'NEILL AND REESE, 1999)	0.45	
TIP RESISTANCE IN CLAY		
TOTAL STRESS (O'NEILL AND REESE, 1999)	0.40	
SIDE BEARING RESISTANCE IN SAND		
b -METHOD (O'NEILL AND REESE, 1999)	0.55	
TIP RESISTANCE IN SAND		
O'NEILL AND REESE, 1999	0.50	
SIDE BEARING RESISTANCE IN INTERMEDIATE GEOMATERILS (IGMs)		
O'NEILL AND REESE, 1999	0.60	
TIP RESISTANCE IN INTERMEDIATE GEOMATERILS (IGMs)		
O'NEILL AND REESE, 1999	0.55	
SIDE BEARING RESISTANCE IN ROCK		
HORVATH AND KENNEY (1979), O'NEILL AND REESE (1999)	0.55	
CARTER AND KULHAWY (1988)	0.50	
TIP RESISTANCE IN ROCK		
CANADIAN GEOTECH. SOCIETY)1985), O'NEILL AND REESE (1999)	0.50	
LATERAL GEOTECHNICAL RESISTANCE OF A SINGLE PILE/SHAFT		
ALL MATERIALS	1.0	
*REFER TO TABLE 1.1 FOR NOTES.		

TABLE 1.1
NOTES FOR TABLE 1

NO.	NOTE
1	APPLY TO PRESUMPTIVE ULTIMATE UNIT BOND STRESSES FOR PRELIMINARY DESIGN ONLY
2	APPLY WHERE PROOF TEST(S) ARE CONDUCTED ON EVERY PRODUCTION ANCHOR TO A LOAD OF 1.0 OR GREATER TIMES THE FACTORED LOAD ON THE ANCHOR.
3	APPLY TO MAXIMUM PROOF TEST FOR ANCHORS
	UNLESS OTHERWISE SPECIFIED, ALL RESISTANCE FACTORS SHALL BE TAKEN AS 1.0 WHEN INVESTIGATING AN EXTREME EVENT LIMIT STATE

TABLE 4-DESIGN PARAMETERS AND FOR ANCHORED WALL

STATION LIMITS	MATERIAL	EFFECTIVE FRICTION ANGLE	COHESION	UNIT WEIGHT
696+00 TO 698+75	SILTY CLAY WITH CHERT	28 DEGREES	0 psf	125 psf

OTHER DESIGN REQUIREMENTS

THE WALL SHALL HAVE A DRAINAGE GUTTER AT THE TOP DESIGNED TO CARRY SURFACE RUNOFF TO EITHER OR BOTH ENDS OF WALLS. DETAILS OF THIS DRAINAGE FEATURE SHALL BE PROVIDED IN WALL DESIGNER/CONTRACTOR'S WALL DESIGN PLANS. IF A CONCRETE CANTILEVER WALL IS USED, THE WALL DESIGNER MUST PROVIDE FOR A DRAINAGE LAYER BEHIND THE WALL STEM WITH ADEQUATE DRAINAGE PROVIDED VIA WEEP HOLES.

THE SOLDIER PILE DEPTH (BELOW FINISHED GROUNDLINE AT WALL FACE) SHALL BE A MINIMUM OF 1.1 TIMES THE WALL HEIGHT.

CONSTRUCTION NOTES

ASSUME DRILLING THROUGH IN-PLACE ROCK OR COLLUVIUM REQUIRED FOR INSTALLTION OF SOLDIER PILES.

TYPICAL CROSS-SECTION ON PREVIOUS SHEET DEPICTS CONDITIONS FOR DESIGN LOADS. CONTRACTOR EXPECTED TO ENCOUNTER LESS WEATHERED MATERIAL DURING WALL EXCAVATION.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALL
CONCEPTUAL DRAWING
STATE ROUTE 52
STA.696+00 TO STA. 698+75
OVERTON COUNTY

22-JAN-2015 07:28
C:\D DRIVE\OVERTON\SR-52\002UI.sht

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	3
CONST.	2014	APD/NH-52(48)	3

REV. 12-07-12: DELETED SPECTRA ENERGY & ADDED COMCAST (XFININTY)

RIGHT - OF – WAY

(1) 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 THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

(2) 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 RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

(3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

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

(5) 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.

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

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

(8) 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.

(9) 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 FIELD 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 OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

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.

UTILITY OWNERS

WATER: TOWN OF LIVINGSTON
MAYOR CURTIS HAYES
931-823-1269
301 McHENRY CIRCLE
LIVINGSTON,TN. 38570

WATER: NORTH OVERTON UTILITY DISTRICT
MR. RAY STOVER
931-823-3381
110 HOOVER CEMETERY RD.
ALLONS, TN. 38541

POWER: UPPER CUMBERLAND ELECTRIC POWER
MR. JIMMY GREGORY
615-735-2940
138 GORDONSVILLE HIGHWAY
CARTHAGE, TN 37030

POWER: TENNESSEE VALLEY AUTHORITY
MARY REYNOLDS
1101 MARKET STREET MR3H-C
CHATTANOOGA, TN 37402

GAS: TOWN OF LIVINGSTON
MAYOR CURTIS HAYES
931-823-1269
301 McHENRY CIRCLE
LIVINGSTON,TN. 38570

SEWER: TOWN OF LIVINGSTON
MAYOR CURTIS HAYES
931-823-1269
301 McHENRY CIRCLE
LIVINGSTON,TN. 38570

TELEPHONE: TWIN LAKES TELEPHONE CO-OP
MR. JONATHAN WEST
931-268-3666
200 TELEPHONE LN.
GAINESBORO, TN. 38562

CABLE TV: COMCAST (XFINITY)
MR. JOSHUA JONES
865-719-7590
5720 ASHVILLE HIGHWAY
KNOXVILLE, TN. 37924

CABLE TV: CELINA CABLE COMMUNICATION
MR. SAM NICHOLS
931-261-7317
1034 EAST MAIN STREET
LIVINGSTON, TN. 38570

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RIGHT-OF-WAY NOTES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	3A
CONST.	2014	APD-52(48)	3A

REV. 07-15-13: LINED THROUGH TRACTS 45 & 50, ADDED ROW TO TRACT 40, ADJUSTED ROW TRACTS 26, 38, 39, 46, 48 & 49 AND ADJUSTED ESMT. TRACT 20

REV. 04-07-14: CHANGED PROPERTY OWNERS NAME ON TR. NO. 1. CHANGED PROPERTY OWNER NAME, BOOK AND PAGE NUMBER ON TR. NO. 26.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.	
1	Tennessee Valley Authority	045I	7.00	282	1		8.592	8.592					8.592			2422	3
~~2~~	~~Town of Livingston~~	~~045I~~	~~1.0~~	~~308~~	~~601~~	~~5.344~~		~~5.344~~				~~5.344~~					
3	Willis Terry Johnson and wife Johnnie B. Johnson	045I	8.00	194	327		0.666	0.666					0.666		18	1834	
5	Carl Rogers	045I	7.00	233	588		6.851	6.851					6.851			2238	
6	Carl Rogers and wife Janie Sue Rogers	045I	8.00	171	93		0.655	0.655					0.655		560	2598	
7	Overton County,Tennessee & Town of Livingston	045	6.00	284	209	8.880		8.880				8.880		881			
8	Steve Cooper and wife Cynthia Cooper	045I	5.01	82	64		5.348	5.348					5.348			0.239 AC	
9	Ruben Murguia and wife Yolanda Murguia	045I	5.00	285	350		1.426	1.426					1.426		2261	2129	
~~10~~	~~Kevin Albert Fleming~~	~~045~~	~~7.00~~	~~314~~	~~659~~	~~5.339~~		~~5.339~~				~~5.339~~					
~~11~~	~~Upper Cumberland Electric Membership Corporation~~	~~045H~~	~~9.00~~	~~192~~	~~685~~	~~6.276~~		~~6.276~~				~~6.276~~					
~~12~~	~~Eva Jean Norris~~	~~045H~~	~~9.00~~	~~134~~	~~372~~		~~0.500~~	~~0.500~~					~~0.500~~				
~~13~~	~~Raymond P. Ledbetter and wife Helen Ledbetter~~	~~045H~~	~~8.00~~	~~23~~	~~307~~		~~0.566~~	~~0.566~~					~~0.566~~				
~~14~~	~~Edward Ledbetter and wife Charlotte Ledbetter~~	~~045H~~	~~7.00~~	~~290~~	~~304~~		~~0.422~~	~~0.422~~					~~0.422~~				
~~15~~	~~Jason Paul Dillon and wife Jennifer Lee Dillon~~	~~045H~~	~~1.02~~	~~44~~	~~351~~	~~1.774~~		~~1.774~~				~~1.774~~					
~~16~~	~~Randall Gunnels~~	~~045H~~	~~1.04~~	~~97~~	~~497~~	~~1.059~~		~~1.059~~				~~1.059~~					
17	Tammy E Parrish	045H	1.06	32	717	1.046		1.046	2926 S.F.		2926 S.F.	0.979					
~~18~~	~~Jeff Voss and wife Dawn Voss~~	~~045H~~	~~1.05~~	~~278~~	~~106~~	~~1.292~~		~~1.292~~				~~1.292~~					
19	Richard Pannell and wife Lisa Pannell	045H	1.03	258	53	0.489		0.489	0.224		0.224	0.265					
20	Paul Strong and wife Anita Strong	045H	15.02	267	218		1.232	1.232					1.232		14	192	
21	Chris Robinson % Ova C Warren	045	1.04	56	799		2.716	2.716					2.716	908		333	
22	Kathy Creselious	045	1.05	283	186		0.463	0.463					0.463	886		235	1
~~23~~	~~Verlin L. Henson and Tina Louise Henson~~	~~045~~	~~1.06~~	~~45~~	~~846~~		~~0.481~~	~~0.481~~					~~0.481~~				
~~24~~	~~Larry Savage and Kenneth Winningham~~	~~045H~~	~~1.00~~	~~277~~	~~124~~	~~5.651~~		~~5.651~~				~~5.651~~					
~~25~~	~~Bobby Ledford and wife Ann Ledford~~	~~045H~~	~~1.01~~	~~226~~	~~419~~	~~0.476~~		~~0.476~~				~~0.476~~					
26	Shirley Mackie, Jerry Hargrove & Linda Hargrove	045	3.01	28	7	12.334		12.334	0.115		0.115	12.219					
27	Michael Brown and wife Vickie Brown	045	2.00	299	331		2.166	2.166		2.166	2.166		0 S.F.				
~~29~~	~~Charles Dishman and wife Rita Dishman~~	~~045A~~	~~6.00~~	~~153~~	~~403~~		~~0.461~~	~~0.461~~					~~0.461~~				
30	Billy Ray Brown and wife Sue Brown	045A	5.00	150	45		0.525	0.525		1112 S.F.	1112 S.F.		0.499				
31	Steven R Sims and wife Tammy Sims	045A	4.00	300	339		1.127	1.127		480 S.F.	480 S.F.		1.116				
~~32~~	~~Kelly Collins~~	~~045A~~	~~3.00~~	~~66~~	~~466~~		~~0.623~~	~~0.623~~					~~0.623~~				
33	Rhonda Looper	045A	1.00	299	303		1.966	1.966		1839 S.F.	1839 S.F.		1.924				
34	Ronald Lee Bahr & Edna Eileen Bahr, Trustees Bahr Family Trust	045	1.01	54	769		1.540	1.540		892 S.F.	892 S.F.		1.520				
35	Overton County Recreation Association	045	1.00	113	137		77.119	77.119		0.287	0.287		76.832				
36	Michael Brown and wife Vickie Brown	045	2.01	299	331		1.028	1.028		2646 S.F.	2646 S.F.		0.967			523	
~~37~~	~~W. G. Quarles and wife Linda G. Quarles~~	~~045~~	~~3.02~~	~~69~~	~~407~~	~~6.053~~		~~6.053~~				~~6.053~~					
38	Kelly Coleman and wife Angie Coleman	045	52.00	67	434	6.519		6.519	127 S.F.		127 S.F.	6.516					
39	Johnny F. Coleman and wife Carol Coleman	045	3.06	261	164	10.010		10.010	0.206		0.206	9.804					
40	Austin Jones	045	3.04	304	217	5.187		5.187	3070 S.F.		3070 S.F.	5.117					
~~41~~	~~W.G. Quarles and wife Linda G. Quarles~~	~~036~~	~~107.07~~	~~186~~	~~664~~	~~8.231~~		~~8.231~~				~~8.231~~					
~~42~~	~~Millard V. Oakley~~	~~036~~	~~108.4~~	~~268~~	~~541~~	~~18.102~~		~~18.102~~				~~18.102~~					
43	Clyde Holman and wife Velma Holman	036	105.01	82	399		3.735	3.735		0.136	0.136		3.599	0.132 AC		1950	1
44	Janice L. Ham	036	106.00	43	820		4.142	4.142		2318 S.F.	2318 S.F.		4.089				
~~45~~	~~Bryan Reynolds and wife Deborah Reynolds~~	~~036~~	~~107.06~~	~~46~~	~~119~~	~~0.258~~		~~0.258~~				~~0.258~~					
46	Deborah Reynolds	036	107.02	85	965	0.957		0.957	0.255		0.255	0.702					
47	Earline Rush	036	107.03	269	195	1.303		1.303				1.303				312	
48	Clyde Holman and wife Velma Holman	036	105.00	82	399		0.314	0.314		0.113	0.113		0.201				
49	Larry Garrett and wife Willa Dean Garrett, and Christopher Bruce Garrett	036	105.00	247	525		0.415	0.415		1051 S.F.	1051 S.F.		0.391				
~~50~~	~~Nell Dean Hammock~~	~~036~~	~~102.00~~	~~94~~	~~380~~	~~0.723~~		~~0.723~~				~~0.723~~					

1. CONST. ESMT. USED FOR EROSION CONTROL
2. CONST. ESMT. USED FOR SINK HOLES
3. CONST. ESMT. USED FOR RETAINING WALL

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RIGHT-OF-WAY ACQUISITION TABLE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	3B
CONST.	2014	APD/NH-52(48)	3B

REV. 12-07-12: ADJUSTED ROW & CONST. ESMT. TRACTS 61, 62 & 66, CORRECTED TOTAL AREA AND AREA REMAINING TRACTS 54 & 55

REV. 07-15-13: ADJUSTED ROW TRACT 56 AND REMOVED EASEMENT TRACT 98

REV. 09-10-13: CORRECTED ACQUIRED AREA TRACT 57, CORRECTED TOTAL AREA TRACT 66, COMBINED TRACT 90 INTO TRACT 89 & LINED THROUGH TRACT 90 AND COMBINED TRACT 211 INTO TRACT 99

REV. 10-04-13: CHANGED PROPERTY OWNER AND COUNTY RECORDS TRACTS 57, 61 & 64. ADDED TRACT 66-A AND ADJUSTED PROPERTY OWNER & ALL AREAS FOR TRACT 66

REV. 01-17-14: CHANGED CONST. ESMT. TO DRAIN. ESMT. TRACT 84

REV. 08-20-14: CHANGED PROPERTY OWNER NAME, DEED BOOK AND PAGE ON TR. NOS. 64 & 79.

REV. 02-27-15: CHANGED PROPERTY OWNER NAME, DEED BOOK AND PAGE ON TR. NOS. 63,77,79 & 81.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.	
~~51~~	~~Mark Jackson~~	~~036~~	~~96.00~~	~~225~~	~~579~~	~~40.534~~		~~40.534~~				~~40.534~~					
~~52~~	~~David Walker ,Vicky Watson and Cindy Cravens~~	~~036~~	~~97.00~~	~~65~~	~~694~~	~~3.952~~		~~3.952~~				~~3.952~~					
~~53~~	~~Michael Charles Kernell~~	~~036~~	~~101.01~~	~~273~~	~~392~~	~~3229 S.F.~~		~~3229 S.F.~~				~~3229 S.F.~~					
54	Ted Garrett Sr. and wife Shelia Garrett	036	101.00	215	532		10.000	10.000		0.287	0.287		9.713			1422	2
55	Jimmy Coleman and wife Wanda Coleman	036	100.00	282	239		3.483	3.483		0.244	0.244		3.239				
56	Charlie Robert Maxfield and wife Mary Jane Maxfield	036	99.00	313	487	1.633		1.633	0.157		0.157	1.476					
57	Janie Perkins and Pat Bates	036	98.00	121	891	0.750		0.750	0.750		0.750						
58	Jack M. Roe	036	107.00	36	301		67.555	67.555		0.208	0.208		67.347			129	1
59	Ronald S. Savage & Loanne T. Savage	036	66.02	287	58	1.894		1.894	0.142		0.142	1.752					
60	Missionary Baptist Church	036	65.00	AU	479	0.380		0.380	1349 S.F.		1349 S.F.	0.349					
61	Beverly L. Dishman	036	65.01	116	126	0.570		0.570	0.270		0.270	0.300				822	1
62	David R Houge and wife Norma Ruth Houge	036H	04.01	66	474	3.696		3.696	0.107		0.107	3.589					
63	Cindy Johns	036H	4.02	123	321	0.933		0.933	2063 S.F.		2063 S.F.	0.886					
64	Robert Boykin	036	62.01	132	149		1.500	1.500		0.169	0.169		1.331			124	1
65	Carl Hayes	036	62.00	21	696		1.500	1.500		0.124	0.124		1.376			478	1
66	Wayne Brown and wife Winnie Brown	035	23.00	195	172		157.850	157.850		1.074	1.074		156.776			4217	1
66-A	Brandon J. Rigsby and Wife Andrea T. Rigsby	035	23.02	110	557		20.280	20.280		0.388	0.388		19.892				
67	Michael Hogue	036H	3.00	314	546	0.750		0.750	698 S.F.		698 S.F.	0.734					
68	Donald W. Hogue & Donald Grant Hogue	036H	1.00	287	2	0.228		0.228	287 S.F.		287 S.F.	0.221					
69	Delbert Staggs and wife Edwina Staggs	036H	1.00	130	199	0.350		0.350	1670 S.F.		1670 S.F.	0.312					
70	Shirley Staggs	036H	26.00	237	5	0.180		0.180	2725 S.F.		2725 S.F.	0.117					
71	Delbert Staggs	036H	25.00	101	7	1.029		1.029	2304 S.F.		2304 S.F.	0.976					
72	Jagadish R. & Wife Jvotsanaben J. Patel	036	2.01	89	686		1.187	1.187		0.103	0.103		1.084				
73	Patricia Lynn Melton	036H	1.00	289	665	0.717		0.717	3484 S.F.		3484 S.F.	0.637					
74	Harold Hammock and wife Eva Jean & Scott Hammock	036H	1.01	256	335	1.823		1.823	2989 S.F.		2989 S.F.	1.754					
~~75~~	~~Dean Murphy Love~~	~~036~~	~~03.05~~	~~242~~	~~656~~	~~0.459~~		~~0.459~~				~~0.459~~					
76	Fred E. Watkins and wife Dianna L. Watkins	036	2.05	281	357	1.038		1.038	0.117		0.117	0.921		341		3706	1
77	Tony Cooper and wife Tammy Cooper	036	2.08	111	70	3.964		3.964	0.259		0.259	3.705		1053			
78	Jim L. Gunnels	036	2.04	293	678	4.745		4.745	1032 S.F.		1032 S.F.	4.721					
79	Buddy Ledbetter	036	2.00	130	186	1.003		1.003	0.153		0.153	0.850					
80	Billy D. Poston and wife Connie J. Poston	036	2.03	284	192	1.002		1.002	0.159		0.159	0.843					
81	Charles Thompson and wife Barbara Thompson	036	2.02	127	854	0.976		0.976	0.108		0.108	0.868					
82	Thomas Wayne Brown and wife Winnie Brown	035	16.01	283	643	3.000		3.000	0.149		0.149	2.851				1953	1
83	Lee Savage and wife Brenda Savage	035	15.00	299	697	0.925		0.925	3122 S.F.		3122 S.F.	0.853		1320		1675	1
84	Iva Hunter Estate of, Illard Hunter	035	23.01	I	106		0.899	0.899		0.322	0.322		0.577	2194			
85	Barbara Maynord % Norman Collins and wife Elsie E. Collins, Life Estate	035	18.00	219	202		12.500	12.500		0.291	0.291		12.209			2681	1
86	Durell Maynord and wife Barbara Maynord	035	17.00	219	198		1.500	1.500		0.284	0.284		1.216				
87	Barbara Maynord % Norman Elmo Collins Elsie Collins, Life Estate	035	18.01	219	202		1.000	1.000		0.204	0.204		0.796				
88	George Barriger and wife Lula Barriger	035	15.01	305	8	0.395		0.395	1816 S.F.		1816 S.F.	0.353		670			
89	Allons Sawmills Inc	035	13.00 12.00	250 210	164 346	21.288		21.288	0.866		0.866	20.422					
~~90~~	~~Allons Sawmills Inc~~	~~035~~	~~12.00~~	~~210~~	~~346~~	~~6.948~~		~~6.948~~				~~6.948~~					
91	J. Bruce Barnes and Orvie R. Barnes	035	19.00	273	492		19.547	19.547		0.744	0.744		18.803				
~~92~~	~~Joyce Ann Maynord and Sadie Little Maynord ,Life Estate~~	~~035~~	~~20.00~~	~~283~~	~~249~~		~~16.517~~	~~16.517~~					~~16.517~~				
93	Tiffany K. & Husband Joseph N. Aytes	035	20.01	104	543		1.022	1.022		0.355	0.355		0.667				
94	Harold Reeder and wife Mary Reeder	035	11.00	11	749	4.450		4.450	0.583		0.583	3.867					
95	Britt Potts and wife Suzanne Potts	035	11.02	40	671	0.587		0.587	2571 S.F.		2571 S.F.	0.528					
96	Misty Hunter	035	20.02	82	239		2.058	2.058		0.479	0.479		1.579				
97	Peter Cornejo	035	20.03	265	604		0.714	0.714		0.120	0.120		0.594				
98	Tommy Feaster and wife Kimberly Feaster	035	11.01	302	660	0.360		0.360	2368 S.F.		2368 S.F.	0.306					
99	The Trustee's of Allons Baptist Church	035	10.00	17	850		2.354	2.354		0.154	0.154		2.200				
~~100~~	~~Jack Watkins and wife Ruth Ann Watkins~~	~~035~~	~~09.02~~	~~189~~	~~316~~		~~0.818~~	~~0.818~~					~~0.818~~				

1. CONST. ESMT. USED FOR EROSION CONTROL
2. CONST. ESMT. USED FOR SINK HOLES
3. CONST. ESMT. USED FOR RETAINING WALL

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RIGHT-OF-WAY ACQUISITION TABLE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	3C
CONST.	2014	APD/NH-52(48)	3C

REV. 12-07-12: ADJUSTED ROW & CONST. ESMT. TRACTS 104, 105 & 107

REV. 07-15-13: ADJUSTED EASEMENT TRACT 101 AND ADJUSTED ROW TRACT 212

REV. 09-10-13: COMBINED TRACT 211 WITH TRACT 99 AND LINED THROUGH TRACT 211

REV. 09-18-13: ADJUSTED CONST. ESMT. ON TRACT 107, ADDED CONST. ESMT. TO TRACT 304 AND ADDED FOOTNOTE 4

REV. 04-07-14: CHANGED PROPERTY OWNER NAME ON TR. NO. 101.

REV. 08-20-14: ADDED UNECONOMICAL REMNANT TR. NO. 8106.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.	
101	Kevin Fleming	027	52.01	12	366	173.000		173.000	3558 S.F.		3558 S.F.	172.918		1836		2476	1
~~102~~	~~Hoover Cemetery~~	~~027~~	~~64.00~~			~~0.446~~		~~0.446~~				~~0.446~~					
~~103~~	~~Jim Hunter~~	~~027~~	~~63.02~~	~~269~~	~~89~~	~~0.316~~		~~0.316~~				~~0.316~~					
104	Barbara J. Brown Living Trust	027	65.00	24	156		7.044	7.044		0.374	0.374		6.670			1268	
105	Barbara J. Brown Living Trust	027	65.00	24	156	2.199		2.199	0.383		0.383	1.816		758		0.217 AC	1
106	Richard Love and wife Wilma Love	027	65.01	61	777		0.262	0.262		0.155	0.155		0.107			0.108 AC	1
107	Kenneth Gilpatrick and wife Carol Gilpatrick	027	66.00	246	646		4.330	4.330		0.670	0.670		3.660			0.212 AC	1,4
108	Michael Gore and wife Stacey Gore	027	60.00	300	629	0.467		0.467				0.467				2009	1
109	Bill Fletcher and wife Denise Fletcher	027	67.00	271	314	1.659		1.659				1.659			14	424	
110	Michael Wilson and wife Diana Wilson	027	67.01	282	30		3.877	3.877		0.550	0.550		3.327				
~~111~~	~~Overton Co. Board of Education~~	~~027~~	~~53.00~~			~~7.038~~		~~7.038~~				~~7.038~~					
~~112~~	~~Albert F. Fleming and wife Clara Fleming~~	~~027~~	~~49.02~~	~~132~~	~~369~~	~~11.651~~		~~11.651~~				~~11.651~~					
113	Kevin Fleming and wife Sandra Fleming	027	49.00	282	647		12.000	12.000		500 S.F.	500 S.F.		11.989				
~~114~~	~~Randel Watkins and wife Kimberly Watkins~~	~~027~~	~~46.02~~	~~217~~	~~121~~		~~1.949~~	~~1.949~~					~~1.949~~				
~~115~~	~~Mark Ledford and wife Diana Ledford~~	~~027~~	~~46.00~~	~~303~~	~~546~~	~~14.727~~		~~14.727~~				~~14.727~~					
~~200~~	~~John A. Turnbull and Stephen Ray Moody~~	~~045I~~	~~5.00~~	~~298~~	~~271~~		~~4.993~~	~~4.993~~					~~4.993~~				
~~201~~	~~Billy H. Cole and wife Alice and John R. Officer~~	~~045I~~	~~5.02~~	~~280~~	~~52~~		~~2.263~~	~~2.263~~					~~2.263~~				
~~202~~	~~James Davidson and wife Jennifer Davidson~~	~~045I~~	~~6.00~~	~~13~~	~~446~~		~~1.254~~	~~1.254~~					~~1.254~~				
~~203~~	~~Danny Hill and wife Ruth Hill~~	~~045I~~	~~5.03~~	~~285~~	~~63~~		~~0.914~~	~~0.914~~					~~0.914~~				
~~204~~	~~Billy Cole and wife Alice Cole~~	~~045P~~	~~4.00~~	~~107~~	~~13~~	~~3533 S.F.~~		~~3533 S.F.~~				~~3533 S.F.~~					
~~205~~	~~Livingston Chocolate Co. Inc.~~	~~045P~~	~~6.01~~	~~42~~	~~739~~	~~3.038~~		~~3.038~~				~~3.038~~					
~~206~~	~~Kirt T. Lamb~~	~~045I~~	~~1.01~~	~~302~~	~~681~~	~~1.177~~		~~1.177~~				~~1.177~~					
~~207~~	~~Patricia Poston~~	~~045I~~	~~1.04~~	~~290~~	~~318~~	~~0.921~~		~~0.921~~				~~0.921~~					
~~208~~	~~Thomas Stephens and wife Elizabeth and Eddie Ray Upchurch and wife Elizabeth~~	~~045I~~	~~1.03~~	~~229~~	~~261~~	~~0.883~~		~~0.883~~				~~0.883~~					
209	Overton Co. Board of Education	045	7.02	224	279	48.045		48.045				48.045		521			
~~211~~	~~The Trustee's of Allons Baptist Church~~	~~035~~	~~10.00~~	~~17~~	~~850~~		~~0.984~~	~~0.984~~		~~873 S.F.~~	~~873 S.F.~~		~~0.964~~				
212	Michael Brown and wife Vickie Brown	045	2.01	299	331	0.383		0.383	0.383		0.383						
~~213~~	~~Overton County Recreation Association~~	~~045~~	~~1.00~~	~~113~~	~~137~~	~~2.140~~		~~2.140~~				~~2.140~~					
~~214~~	~~Christy Raines and Marsha Preston~~	~~045I~~	~~2.00~~	~~3~~	~~849~~		~~0.268~~	~~0.268~~					~~0.268~~				
~~215~~	~~Charlie R. Maxfield and wife Jane Maxfield~~	~~027~~	~~63.01~~	~~76~~	~~684~~	~~0.531~~		~~0.531~~				~~0.531~~					
~~216~~	~~Edith Smith~~	~~045H~~	~~8.00~~	~~60~~	~~294~~		~~0.527~~	~~0.527~~					~~0.527~~				
~~217~~	~~Ray J. Rockwell and wife Wilma Rockwell~~	~~045H~~	~~7.00~~	~~186~~	~~281~~		~~0.461~~	~~0.461~~					~~0.461~~				
~~303~~	~~RickyThomas Brown and wife Margret Suzann Brown and Sue Ann Goble and Ricky Brown Jr.~~	~~027~~	~~55.00~~	~~310~~	~~678~~	~~2.720~~		~~2.720~~				~~2.720~~					
304	Janie Perkins	036	66.03	235	566	0.302		0.302	3507 S.F.		3507 S.F.	0.222				0.222 AC	4
305	Kathy Samuelson	036	66.13	236	102	0.285		0.285	1203 S.F.		1203 S.F.	0.257					
~~306~~	~~Janie Perkins~~	~~036~~	~~66.14~~	~~236~~	~~92~~	~~0.309~~		~~0.309~~				~~0.309~~					
~~307~~	~~Chester Carmack or Scarlett R. Carmack~~	~~045I~~	~~7.00~~	~~305~~	~~608~~		~~0.366~~	~~0.366~~					~~0.366~~				
~~308~~	~~Jessie Nelson~~	~~045I~~	~~6.00~~	~~97~~	~~42~~		~~0.396~~	~~0.396~~					~~0.396~~				
~~309~~	~~Anna Louise McCurdy~~	~~045I~~	~~5.00~~	~~211~~	~~104~~		~~0.395~~	~~0.395~~					~~0.395~~				
~~311~~	~~Marsha Smith~~	~~045I~~	~~11.00~~	~~227~~	~~557~~		~~0.345~~	~~0.345~~					~~0.345~~				
8106	State of Tennessee									0.107	0.107						
ACQUISITION TOTALS (ACRES)									6.372	10.356	16.728			0.391	0.065	1.875	

1. CONST. ESMT. USED FOR EROSION CONTROL
2. CONST. ESMT. USED FOR SINK HOLES
3. CONST. ESMT. USED FOR RETAINING WALL
4. CONST. ESMT. USED FOR STRUCTURE REMOVAL

DISTURBED AREA	
IN BETWEEN SLOPES	87.635 Ac.
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	16.331 Ac.
TOTAL DISTURBED AREA	103.966 Ac.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	3D
CONST.	2014	APD/NH-52(48)	3D

REV. 12-07-12: ADJUSTED ROW & CONST. ESMT. TRACTS 104, 105 & 107

REV. 09-10-13: ADDED Z BAR BETWEEN TRACT 211 & TRACT 99, ADDED Z BARS BETWEEN TRACT 89 & TRACT 90 AND LINED TROUGH TRACT 211 & TRACT 90

REV. 09-18-13: ADDED CONST. ESMT. TRACT 107

REV. 04-07-14: ADDED NORTHERN PROPERTY LINE ON TR. NO. 101.

REV. 08-20-14: ADDED UNECONOMICAL REMNANT TR. NO. 8106.

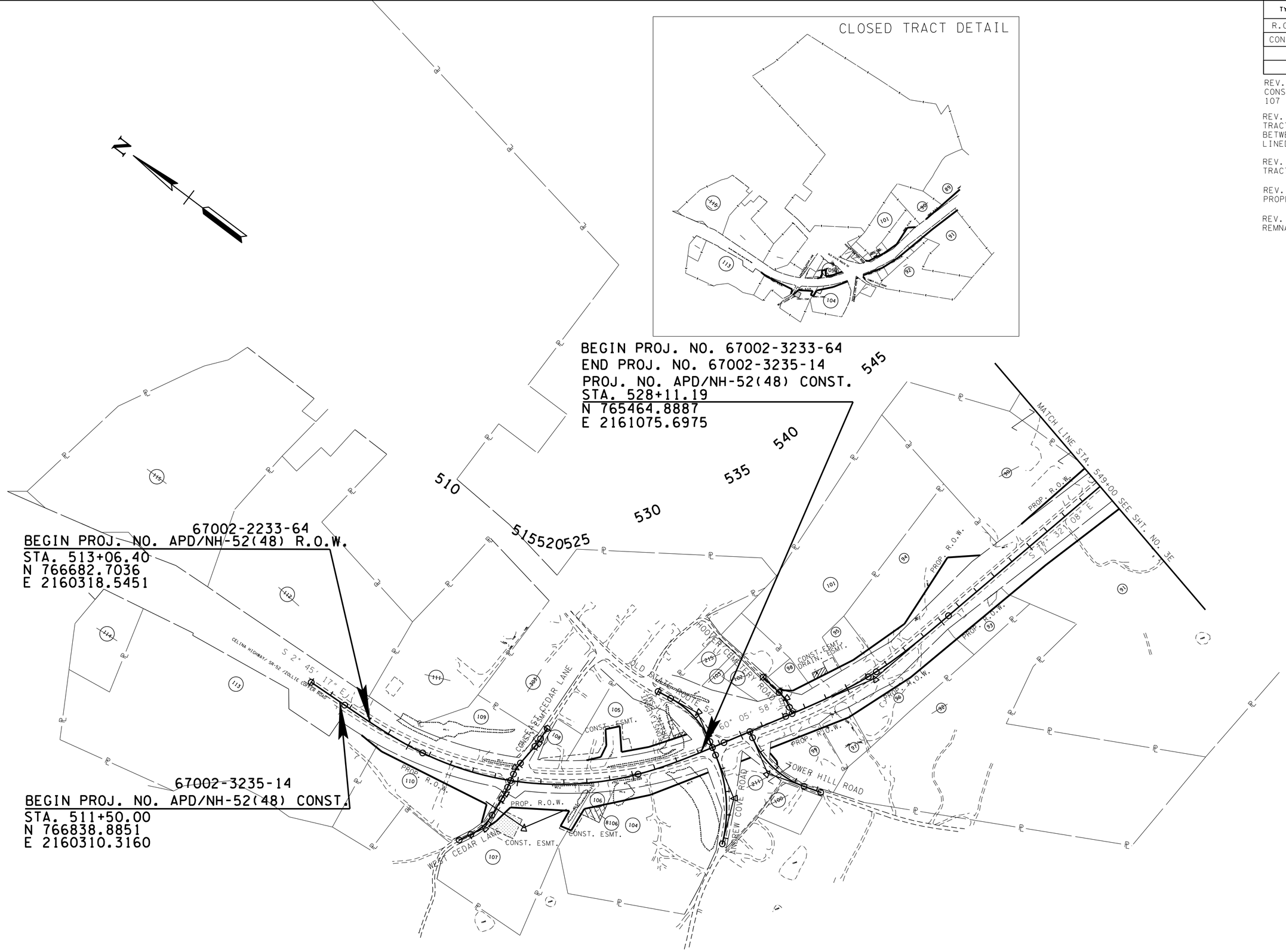
CLOSED TRACT DETAIL

N

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

67002-2233-64
BEGIN PROJ. NO. APD/NH-52(48) R.O.W.
STA. 513+06.40
N 766682.7036
E 2160318.5451

67002-3235-14
BEGIN PROJ. NO. APD/NH-52(48) CONST.
STA. 511+50.00
N 766838.8851
E 2160310.3160



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 511+50 TO STA. 549+00

SCALE: 1"=200'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	3E
CONST.	2014	APD/NH-52(48)	3E

REV. 12-07-12: ADJUSTED ROW & CONST. ESMT. TRACTS 61, 62 & 66

REV. 07-15-13: ADJUSTED ROW TRACT 56

REV. 09-18-13: ADDED CONST. ESMT. TRACT 304

REV. 10-04-13: ADDED TRACT 66-A

REV. 01-17-14: CHANGED CONST. ESMT. TO DRAIN. ESMT. TRACT 84

560 565 570 575 580 585 590 595 600

TOM SMITH ROAD
AIRPORT ROAD
CLSK ROAD
SAVAGE LANE
ALONS ROAD
OLD RIDGE LAKE ROAD
ELMER LANGFORD ROAD
CELINA HIGHWAY/ SR-52 /ZOULIE COFFER ROAD
S 35° 23' 51" E

CONST. ESMT.
DRAIN. ESMT.
PROP. R.O.W.
PROP. R.O.W.

MATCH LINE STA. 549+00 SEE SHT. NO. 3D

MATCH LINE STA. 603+00 SEE SHT. NO. 3F

N

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UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 549+00 TO STA. 603+00

SCALE: 1"=200'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	3F
CONST.	2014	APD/NH-52(48)	3F

REV. 07-15-13: LINED THROUGH TRACTS 45 & 50, ADDED ROW TO TRACT 40, ADJUSTED ROW TRACTS 26, 38, 39, 46, 48, 49 & 212 AND RE-ALIGNED FAIRVIEW LN.

REV. 01-17-14: ADDED LOSS OF ACCESS TRACTS 48 & 49 AND UNLINED TRACT 44

610 615 620 625 630 635 640 645 650 655

145

FAIRVIEW LANE

PROP. R.O.W.

S 10° 34' 35" E

OLD ALLONS ROAD

CONST. ESMT.

CONST. ESMT. DRAIN. ESMT.

HOLMAN DRIVE

ROE LANE

S 38° 23' 56" W

S 39° 43' 53" E

PROP. R.O.W. CONST. ESMT.

LOSS OF ACCESS

MATCH LINE STA. 603+00 SEE SHT. NO. 3E

MATCH LINE STA. 657+00 SEE SHT. NO. 3G

N

CLOSED TRACT DETAIL

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109425
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 603+00 TO STA. 657+00

SCALE: 1"=200'

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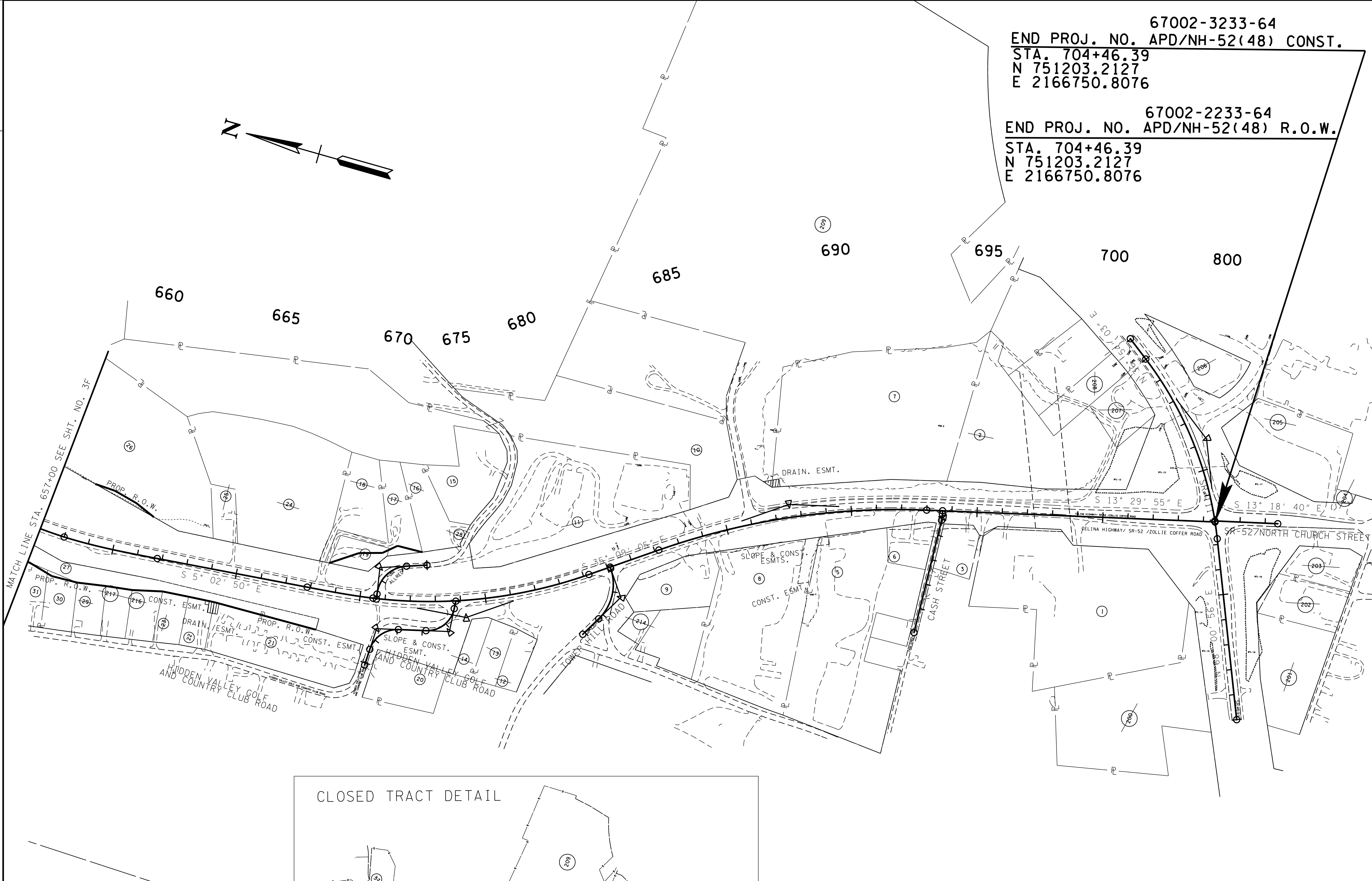
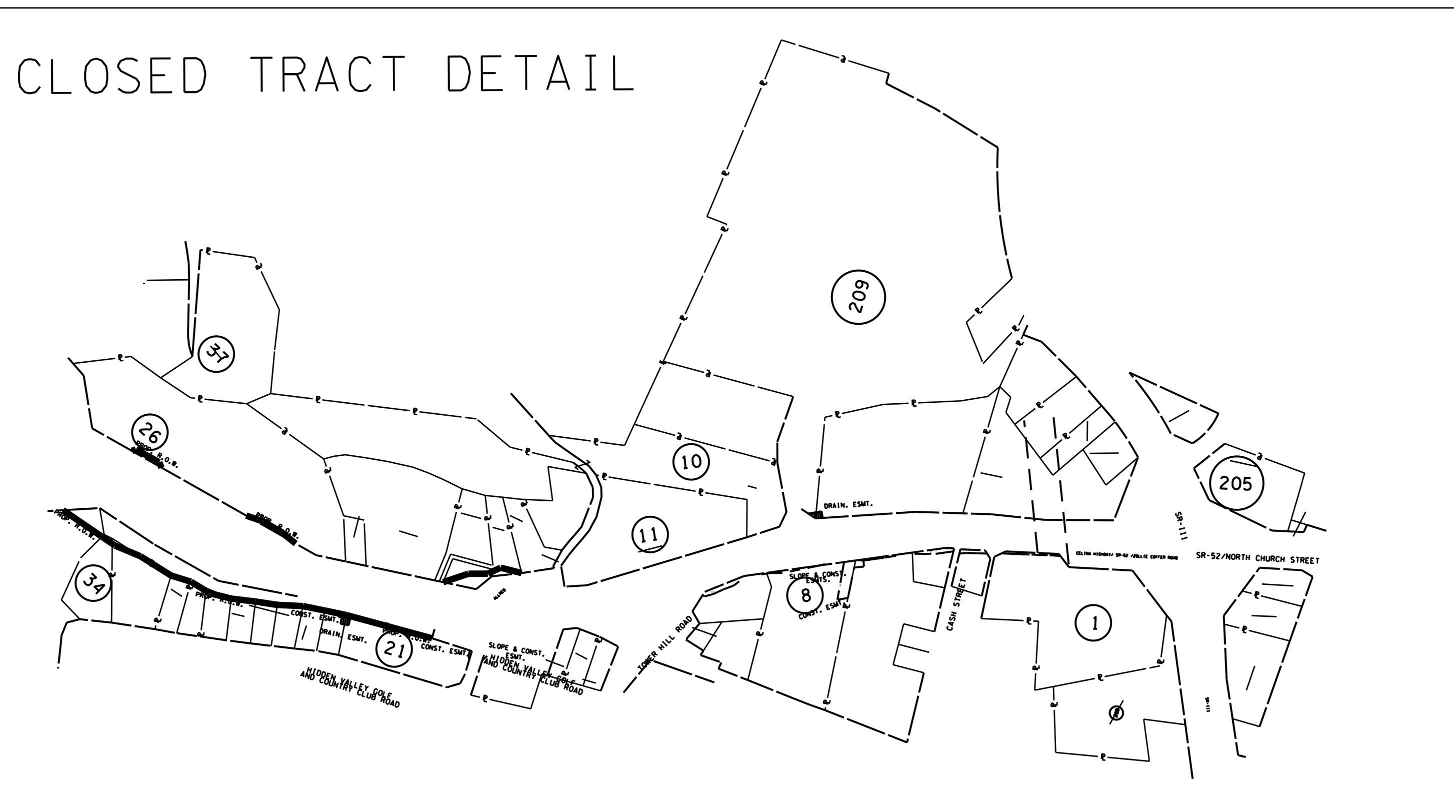
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	3G
CONST.	2014	APD/NH-52(48)	3G

REV. 07-15-13: UNLINED TRACTS 7 & 209, ADJUSTED ROW TRACT 26 AND ADJUSTED EASEMENT TRACT 20



CLOSED TRACT DETAIL



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 657+00 TO STA. 704+47
SCALE: 1"=200'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	4
CONST.	2014	APD/NH-52(48)	4

REV. 12-07-12: CORRECTED BEG. PROJ NORTHING & EASTING LABELS.

N

112

ALBERT FLEMING
AND WIFE
CLARA FLEMING

510

POT 510+00.00

TS 511+74.79

111

OVERTON COUNTY BOARD OF EDUCATION

1-SBR SCHOOL

67002-2233-64
BEGIN PROJ. NO. APD/NH-52(48) R.O.W.
STA. 513+06.40
N 766682.7036
E 2160318.5451

PRES. & PROP. R.O.W.

PRES. & PROP. R.O.W.

CONC.

CUT SLOPE

EW1

EW2

EW3

CELINA HIGHWAY/ SR-52 /ZOLLIE COFFER ROAD

S 2° 45' 17" E

CP-S536

15"CMP

EW4

INV-1398.38

CUT SLOPE

INV-1399.25

PROP. ROW

MATCH LINE STA. 513+50 SEE SHT. NO. 5

PRES. & PROP. R.O.W.

PRES. & PROP. R.O.W.

113

KEVIN FLEMING
AND WIFE
SANDRA FLEMING

67002-3235-14
BEGIN PROJ. NO. APD/NH-52(48) CONST.
STA. 511+50.00
N 766838.8851
E 2160310.3160

114

RANDEL WATKINS
AND WIFE
KIMBERLY WATKINS

CONTROL POINTS							
Point	North	East	Elevation	Feature	Description	Station	Offset
S536	766893.4347	2160280.7460	1401.1200	XCP	GPS67-52-536	510+94.09	26.9141(RT)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
43
OVERTON
No. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	4A
CONST.	2014	APD/NH-52(48)	4A

REV. 12-07-12: CORRECTED BEG. PROJ NORTHING & EASTING LABELS.

N

112
ALBERT FLEMING
AND WIFE
CLARA FLEMING

111
OVERTON COUNTY BOARD OF EDUCATION

510
POT 510+00.00
TS 511+74.79

67002-2233-64
BEGIN PROJ. NO. APD/NH-52(48) R.O.W.
STA. 513+06.40
N 766682.7036
E 2160318.5451

N 2° 34' 47" W
21.14'
512+40.86
90.14'
512+19.52
90.27'

N 21° 22' 15" W
207.60'
N 68° 9' 41" E
146.65'

S 16° 3' 1" E
125.23'
CONC.
N 3° 15' 52" W
164.61'
N 2° 16' 27" W
141.08'
PRES. & PROP. R.O.W.
N 3° 0' 0" W
350.00'
PRES. & PROP. R.O.W.
S 2° 59' 55" E
330.00'

CUT SLOPE
S 2° 45' 17" E
CP-S536
R=1707.07'
L=80.84'
CUT SLOPE
R=1707.07'
L=77.19' PROP. ROW
A
MATCH LINE STA. 513+50 SEE SHT. NO. 5A

512+30.12
67.96'
513+06.40
66.60'
N 2° 59' 55" W
35.34'
N 87° 9' 9" E
80.17'
S 2° 11' 13" W
82.19'
511+94.95
68.06'
511+95.05
148.23'
S 2° 59' 55" E
210.00'
510+00.00
149.12'
N 52° 21' 45" E
85.78'
PRES. & PROP. R.O.W.
N 7° 51' 20" W
474.89'
PRES. & PROP. R.O.W.
N 10° 53' 18" W
200.00'
N 10° 53' 18" W
190.00'
S 70° 4' 13" W
10.00'
N 10° 53' 18" W
40.76'

113
KEVIN FLEMING
AND WIFE
SANDRA FLEMING

67002-3235-14
BEGIN PROJ. NO. APD/NH-52(48) CONST.
STA. 511+50.00
N 766838.8851
E 2160310.3160

114
RANDEL WATKINS
AND WIFE
KIMBERLY WATKINS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50'

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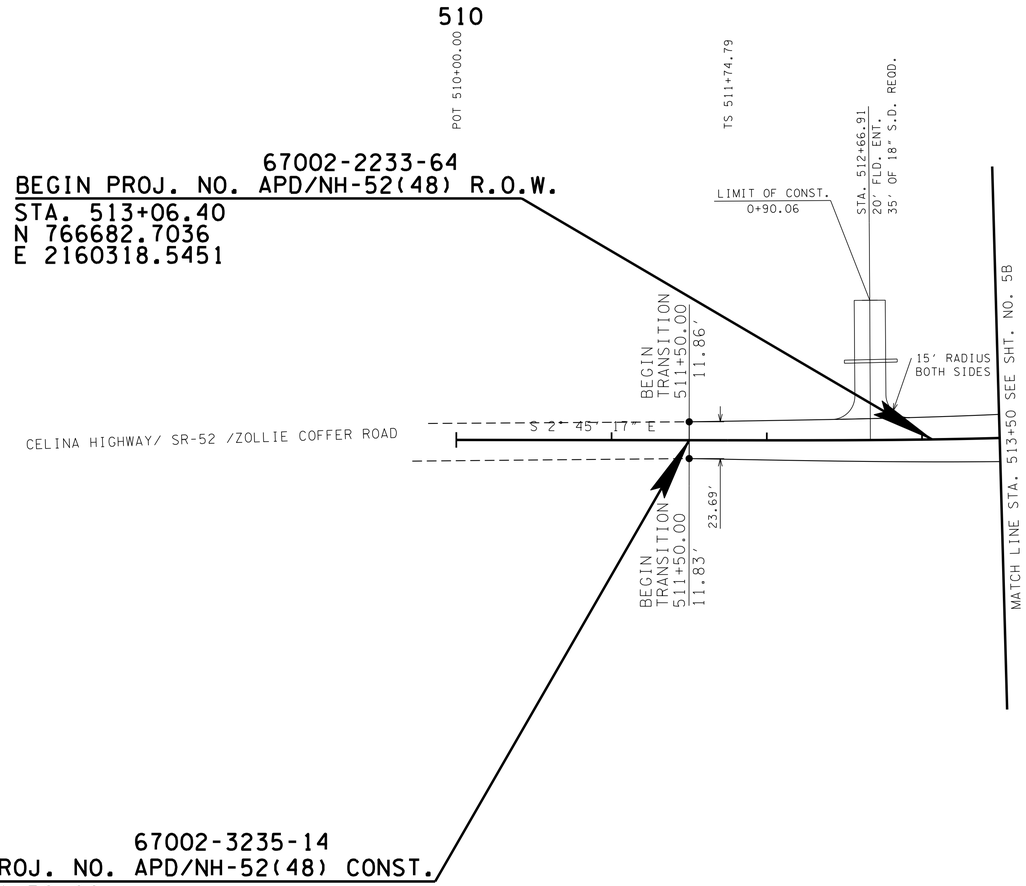
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	4B
CONST.	2014	APD/NH-52(48)	4B

REV. 12-07-12: CORRECTED BEG. PROJ NORTHING & EASTING LABELS.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	4C
CONST.	2014	APD/NH-52(48)	4C

REV 12-07-12: CORRECTED BEG. PROJ. NORTHING & EASTING LABELS.

EXC. (UNCL.)
400006 C.Y.

COMMON 310442 C.Y. (INCL.)
T-SOIL FROM EXC. 66266 CY
T-SOIL FROM EMB. 44376 CY
EXC FROM DRIVES 5792 CY
EXCESS MAT'L 175479 CY

ROCK 89564 C.Y.

EXC.

EMB.
SHR. 10%
SW. 15%

EMB. 125109 C.Y. (INCL.)
EMB. FOR DRIVES. 5372 CY
REPLACE TOPSOIL 44376 CY

⊙ OH WIRE
STA. 501+09.76
LOW WIRE EL.1422.41'
TEMP. 55 DEG.
2 POWER
1TELEPHONE
1 CABLE

511+50.00 MATCH EXIST LT.
511+50.00 MATCH EXIST RT.
TRANSITION
TRANSITION

67002-2233-64
BEGIN PROJ. NO. APD/NH-52(48) R.O.W.
STA. 513+06.40

VPI 511+50.00 EL. 1401.87
VPI 511+61.89 EL. 1401.84
VPI 512+05.90 EL. 1401.44
VPC 512+86.32 EL. 1400.80
VPI 513+48.82 EL. 1400.30

EXISTING GROUNDLINE AT PROPOSED ℄

XCP-S536 (67-52-536)
STA. 510+94.09, 26.91'(RT)
N 766893.4347
E 2160280.7460
ELEV 1401.12
ALUM. DISK

-0.23% -0.90% -0.80%

67002-3235-14
BEGIN PROJ. NO. APD/NH-52(48) CONST.
STA. 511+50.00

VC = 125.00'
K = 227
V = 60+ MPH

1425 1420 1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365 1360 1355 1350 1345 1340 1335 1330

500+50 501+00 501+50 502+00 502+50 503+00 503+50 504+00 504+50 505+00 505+50 506+00 506+50 507+00 507+50 508+00 508+50 509+00 509+50 510+00 510+50 511+00 511+50 512+00 512+50 513+00 513+50

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	5
CONST.	2014	APD/NH-52(48)	5

REV. 12-07-12: ADJUSTED SLOPE LINES,ROW & CONST. ESMT. FOR STR-1 & STR-2 RELOCATIONS

REV. 07-15-13: CORRECTED ROW AND EASEMENT LINEWORK TRACTS 108, 109 & 303 AND LINED THROUGH TRACT 303

REV. 09-18-13: ADDED CONST. ESMT. TRACT 107

REV. 08-20-14: ADDED UNECONOMICAL REMNANT TR. NO. 8106.

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S534	765816.8355	2160639.6606	1391.8500	XCP	GPS67-52-534	522+47.59	0.8979(LT)
S535	766299.8745	2160373.3124	1395.4800	XCP	GPS67-52-535	516+93.17	5.9751(RT)

AREA TO BE SCARIFIED SEEDED AND SODDED

CONSTRUCTION EASEMENT

SR-52
PI 521+12.02
N 765,877.9726
E 2,160,356.5516
Δs 57° 20′ 41″ (LT)
θs 8° 23′ 37″
Δc 40° 33′ 26″ (LT)
Dc 4° 15′ 00″
Rc 1,348.14
Lc 954.29
Ts 937.23
Ls 395.00
SE 0.079 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 268′

WEST CEDAR LANE
PI 12+34.53
N 766,013.5120
E 2,160,251.4716
Δ 33° 52′ 21″ (RT)
D 27° 00′ 00″
R 212.21
L 125.45
T 64.62
SE 0.066 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 106′

EAST CEDAR LANE
PI 20+73.44
N 766,050.3468
E 2,160,684.5455
Δ 8° 17′ 17″ (RT)
D 20° 00′ 00″
R 286.48
L 41.44
T 20.76
SE 0.025 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 98′

WEST CEDAR LANE
PI 10+59.78
N 766,032.9607
E 2,160,425.2031
Δ 6° 44′ 10″ (RT)
D 12° 00′ 00″
R 477.46
L 56.14
T 28.10
SE 0.017 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 10′

EAST CEDAR LANE
PI 22+17.50
N 766,059.8951
E 2,160,540.7305
Δ 16° 55′ 20″ (LT)
D 30° 00′ 00″
R 190.99
L 56.41
T 28.41
SE 0.054 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 98′

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF TEMPORARY IMPACT = 0.08 AC
	VOLUME OF TEMPORARY IMPACT = 124 C.Y.
LEGEND	WETLAND IMPACTS (WTL-2)
	AREA OF PERMANENT IMPACT = 0.02 AC
	VOLUME OF PERMANENT IMPACT = 33 C.Y.
LEGEND	WETLAND IMPACTS (WTL-3)
	AREA OF PERMANENT IMPACT = 0.02 AC
	VOLUME OF PERMANENT IMPACT = 36 C.Y.
LEGEND	WETLAND IMPACTS (WTL-4)
	AREA OF PERMANENT IMPACT = 0.06 AC
	VOLUME OF PERMANENT IMPACT = 92 C.Y.
LEGEND	WETLAND IMPACTS (WTL-5)
	SEE SHEET 6
LEGEND	WETLAND IMPACTS (WTL-2A)
	AREA OF PERMANENT IMPACT = 0.02 AC
	VOLUME OF PERMANENT IMPACT = 28 C.Y.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 108435
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	5A
CONST.	2014	APD/NH-52(48)	5A

REV. 12-07-12: ADJUSTED SLOPE LINES, ROW & CONST. ESMT. FOR STR-1 & STR-2 RELOCATIONS

REV. 07-15-13: CORRECTED ROW AND EASEMENT LINEWORK TRACTS 108, 109 & 303 AND LINED THROUGH TRACT 303

REV. 09-18-13: ADDED CONST. ESMT. TRACT 107

REV. 08-20-14: ADDED UNECONOMICAL REMNANT TR. NO. 8106.

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S534	765816.8355	2160639.6606	1391.8500	XCP	GPS67-52-534	522+47.59	0.8979(LT)
S535	766299.8745	2160373.3124	1395.4800	XCP	GPS67-52-535	516+93.17	5.9751(RT)

CONST. ESMT. CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
h	520+85.00	103.25'	h-i	S62°25'35"E	15.63'
i	520+99.84	110.85'	i-j	S42°38'48"E	119.14'
j	522+29.62	123.76'	j-k	S42°38'48"E	122.85'
k	523+65.00	125.00'	k-l	N82°17'56"E	50.75'
l	524+00.00	165.00'	l-m	N50°50'09"E	65.56'
m	524+10.00	230.00'	m-n	S48°58'56"E	82.92'
n	525+10.00	230.00'	n-o	S49°35'53"E	71.17'
o	524+95.00	160.00'	o-p	S51°06'26"E	26.44'
p	525+25.00	160.00'	p-q	S38°15'19"W	52.50'
q	525+25.00	107.50'	⬡-⬡	° ' "	'

CONSTRUCTION EASEMENT

OVERTON COUNTY BOARD OF EDUCATION
515

RICKY THOMAS BROWN AND WIFE, MARGARET SUZANN BROWN
SUE ANN GOBLE AND RICKY THOMAS BROWN, JR.
520

BILL FLETCHER AND WIFE DENISE FLETCHER
109
SR-52 STA. 519+69.21 =
WEST CEDAR LN. PROP STA. 10+00.00
EAST CEDAR LN. STA. 22+75.93
N 766046.5335
E 2160483.4197

MICHAEL GORE AND WIFE STACEY GORE
108

BARBARA J. BROWN REVOCABLE LIVING TRUST
105

MICHAEL WILSON AND WIFE DIANA WILSON
110

KENNETH GILPATRICK AND WIFE CAROL GILPATRICK
107

BARBARA J. BROWN REVOCABLE LIVING TRUST
104

UNECONOMIC REMNANT
8106
RICHARD LOVE AND WIFE WILMA LOVE

LIMIT OF CONST. 20+25.00

LIMIT OF CONST. 12+00.00

MATCH LINE STA. 513+50 SEE SHT. NO. 4A

MATCH LINE STA. 526+50 SEE SHT. NO. 6A

CONST. ESMT. CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
q	521+85.00	180.00'	q-b	S82°26'05"W	11.50'
b	521+80.00	190.00'	b-c	S14°39'09"E	36.25'
c	522+09.10	204.19'	c-d	S14°39'09"E	26.46'
d	522+30.00	215.00'	d-e	N82°36'39"E	93.95'
e	522+75.00	136.00'	e-f	S10°59'14"E	75.24'
f	523+32.61	175.16'	f-g	N76°40'53"E	87.92'
g	523+73.85	99.89'	⬡-⬡	° ' "	'

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
OVERMEN
NO. 108433
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	5B
CONST.	2014	APD/NH-52(48)	5B

REV. 4-07-14 CHANGED LABEL ON STR-1 FROM "2'T" TO "RELOCATED STR-1".

NOTES:

SEE SHEETS 28-28J FOR STREAM RELOCATION AND TEMP. WETLAND IMPACT DETAILS AND NOTES REGARDING RIP-RAP

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO PROTECT NON-IMPACTED PORTIONS OF WETLANDS AND STREAMS FROM DISTURBANCES

SPECIAL DITCH CODES			
CODE	LABEL	STATION	OFFSET
(A)	BEG DIT	21+75.00	-15.00'
(B)	END DIT	21+75.00	-44.00'
(B)	BEG STR-1	520+55.00	-64.50'

SR-52
PI 521+12.02
N 765,877.9726
E 2,160,356.5516
Δs 57° 20' 41" (LT)
θs 8° 23' 37"
Δc 40° 33' 26" (LT)
Dc 4° 15' 00"
Rc 1,348.14
Lc 954.29
Ts 937.23
Ls 395.00
SE 0.079 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 268'

WEST CEDAR LANE
PI 12+34.53
N 766,013.5120
E 2,160,251.4716
Δ 33° 52' 21" (RT)
D 27° 00' 00"
R 212.21
L 125.45
T 64.62
SE 0.066 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 106'

EAST CEDAR LANE
PI 20+73.44
N 766,050.3468
E 2,160,684.5455
Δ 8° 17' 17" (RT)
D 20° 00' 00"
R 286.48
L 41.44
T 20.76
SE 0.025 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 98'

WEST CEDAR LANE
PI 10+59.78
N 766,032.9607
E 2,160,425.2031
Δ 6° 44' 10" (RT)
D 12° 00' 00"
R 477.46
L 56.14
T 28.10
SE 0.017 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 10'

EAST CEDAR LANE
PI 22+17.50
N 766,059.8951
E 2,160,540.7305
Δ 16° 55' 20" (LT)
D 30° 00' 00"
R 190.99
L 56.41
T 28.41
SE 0.054 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 98'

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF TEMPORARY IMPACT = 0.08 AC
	VOLUME OF TEMPORARY IMPACT = 124 C.Y.
LEGEND	WETLAND IMPACTS (WTL-5)
	SEE SHEET 6

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
47
OWNERS
NO. 106472
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	5C
CONST.	2014	APD/NH-52(48)	5C

REV 12-07-12: REVISED SECIAL DIT. LT. STA. 520+55.00

TRANSITION
TRANSITION
515+69.79 LT.-0.079
515+69.79 RT. 0.079
FULL SUPER
FULL SUPER
525+24.08 LT.-0.079
525+24.08 RT. 0.079
TRANSITION
TRANSITION

VPT 514+11.32
EL. 1399.46

VC = 125.00'
K = 166
V = 60+ MPH

OH WIRE
STA. 519+64.37
LOW WIRE EL.1412.44'
TEMP. 65DEG.
2 POWER
1 TELEPHONE
1CABLE

VPC 518+06.00
EL. 1394.13

VPI 518+68.50
EL. 1393.29

VPT 519+31.00
EL. 1392.91

OH WIRE
STA. 524+71.34
LOW WIRE EL.1411.37'
TEMP.65 DEG.
2 POWER
1 TELEPHONE
1 CABLE

LT 6 EW
RT 5 EW

XCP-S535 (GPS 67-52-535)
STA. 516+93.17, 5.98'(RT)
N 766299.8745
E 2160373.3124
ELEV 1395.48
ALUM. DISK

EXISTING GROUNDLINE
AT PROPOSED ℄

XCP-S534 (GPS 67-52-534)
STA. 522+47.59, -0.90'(LT)
N 765816.8355
E 2160639.6606
ELEV 1391.85
ALUM. DISK

-1.35%
-1.35%
-0.60%
-1.92%
-0.50%
-2.89%
1.55%
-0.74%
-2.07%
0.54%

TO BE REMOVED

STA 514+94.37
EXISTING 24"RCP
SKEW 89° 46' 43" LT
FLOWS LEFT
INLET 1393.5470
OUTLET 1389.9290

TO BE REMOVED

BEG DIT RT
STA. 518+75.00
EL. 1391.35

END DIT RT
STA. 519+15.00
EL. 1390.58

BEGIN DIT RT
STA. 519+75.00
EL. 1390.32

BEGIN STR-1 LT
STA. 520+55.00
EL. 1385.09

STA. 519+69.21 SR 52=
STA. 10+00.00 WEST CEDAR LN.
STA. 22+75.93 EAST CEDAR LN.

VPI RT 522+00.00
EL. 1389.19

VPI RT 522+83.50
EL. 1386.78

VPI LT 523+00.00
EL. 1383.28

END STR-1 LT
STA. 523+95.00
EL. 1381.31

BEG DIT LT
STA. 523+95.00
EL. 1381.31

END DIT RT
STA. 524+00.00
EL. 1388.58

END DIT LT
STA. 525+50.00
EL. 1382.15

STA 523+43.01
EXISTING 24"RCP
SKEW 54° 38' 34" LT
FLOWS LEFT
INLET 1386.4670
OUTLET 1383.3340

STA. 523+30.495
156' OF 24" RCP WITH ENDWALLS
SKEW 51°9'0"
ENDWALLS REQD. : STRAIGHT ENDWALLS
STD. DWG. NOS. D-PE-4

D.A. = 11.38 AC.
Q50 = 27.76 CFS
Q100 = 30.30 CFS
W.S. ELEV. (50) = 1390.33
W.S. ELEV. (100) = 1390.37

1440 1435 1430 1425 1420 1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365 1360 1355 1350 1345

513+50 514+00 514+50 515+00 515+50 516+00 516+50 517+00 517+50 518+00 518+50 519+00 519+50 520+00 520+50 521+00 521+50 522+00 522+50 523+00 523+50 524+00 524+50 525+00 525+50 526+00 526+50

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UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 513+50 TO STA. 526+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	6
CONST.	2014	APD/NH-52(48)	6

REV. 12-07-12: ADDED SLOPE LINES FOR ANDREW COVE RD. PVT. DR. & BOTH TOWER HILL RD. PVT. DRS.

REV. 09-10-13: ADDED Z BAR BETWEEN TRACT 211 & TRACT 99 AND LINED TROUGH TRACT 211

REV. 04-07-14: ADJUSTED CUT SLOPE ON OLD ST-52 STA. 41+50 (LT). CHANGED PROPERTY OWNER NAME ON TR. NO. 101.

REV. 02-27-15: ADDED FLARE ON PVT. DRIVE STA. 534+02.51(RT).

LIMIT OF CONST.
40+50.00

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

SR-52 STA. 528+65.03 =
OLD SR-52 STA. 43+46.36
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

SR-52
PI 536+26.88
N 765,057.9308
E 2,161,782.6208
Δs 17° 26′ 08″ (LT)
θs 7° 54′ 00″
Δc 1° 38′ 08″ (LT)
Dc 4° 00′ 00″
Rc 1,432.39
Lc 40.89
Ts 417.71
Ls 395.00
SE 0.078 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 265′

OLD SR-52
PI 41+95.42
N 765,577.2282
E 2,161,202.9113
Δ 38° 36′ 27″ (RT)
D 15° 00′ 00″
R 381.97
L 257.38
T 133.79
SE 0.036 FT/FT
DESIGN SPEED 35 MPH
TRANS. LENGTH 185′

HOOVER CEMETERY ROAD
PI 61+35.98
N 765,311.5023
E 2,161,480.8646
Δ 23° 21′ 01″ (RT)
D 30° 00′ 00″
R 190.99
L 77.83
T 39.46
SE 0.050 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 89′

TOWER HILL RD.
PI 51+32.31
N 765,098.0499
E 2,160,991.8087
Δ 23° 26′ 33″ (LT)
D 15° 00′ 00″
R 381.97
L 156.28
T 79.25
SE 0.049 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 115′

ANDREW COVE RD.
PI 32+38.41
N 765,231.4062
E 2,161,002.7885
Δ 37° 08′ 58″ (RT)
D 9° 30′ 00″
R 603.11
L 391.05
T 202.67
SE 0.060 FT/FT
DESIGN SPEED 35 MPH
TRANS. LENGTH 130′

TOWER HILL RD.
PI 51+95.83
N 765,180.2928
E 2,161,176.9813
Δ 47° 11′ 58″ (LT)
D 15° 00′ 00″
R 381.97
L 314.66
T 166.88
SE 0.029 FT/FT
DESIGN SPEED 15 MPH
TRANS. LENGTH 45′

SR-52 STA. 530+40.86 =
TOWER HILL RD STA. 50+00.00
N 765350.0572
E 2161274.6023

LIMIT OF CONST.
32+25.00

LIMIT OF CONST.
52+00.00

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S531	764985.4074	2162035.5978	1384.5900	XCP	GPS67-52-531	538+85.37	17.3070(RT)
S532	765160.9523	2161501.0753	1385.1200	XCP	GPS67-52-532	533+30.79	51.5728(RT)

CHARLIE R. MAXFIELD AND WIFE JANE MAXFIELD
JIM HUNTER
HOOVER CEMETERY
TOMMY FEASTER AND WIFE KIMBERLY FEASTER
KEVIN FLEMING
BRITT POTTS AND WIFE SUZANNE POTTS
THE TRUSTEES OF THE ALLONS BAPTIST CHURCH
PETER CORNEJO
MISTY HUNTER
JACK WATKINS AND WIFE RUTH ANN WATKINS
SADIE LITTLE MAYNORD AND JOYCE ANN MAYNORD

AREA TO BE SCARIFIED SEEDED AND SODDED
CONSTRUCTION EASEMENT
DRAINAGE EASEMENT

LEGEND	WETLAND IMPACTS (WTL-5)
	AREA OF PERMANENT IMPACT = 0.30 AC
	VOLUME OF PERMANENT IMPACT = 491 C.Y.
	AREA OF TEMPORARY IMPACT = 0.14 AC
	VOLUME OF TEMPORARY IMPACT = 216 C.Y.

LEGEND	WETLAND IMPACTS (WTL-6)
	AREA OF PERMANENT IMPACT = 291 S.F.
	VOLUME OF PERMANENT IMPACT = 11 C.Y.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
DEPARTMENT OF AGRICULTURE AND COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 526+50 TO STA. 539+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	6A
CONST.	2014	APD/NH-52(48)	6A

REV. 12-07-12: ADDED SLOPE LINES FOR ANDREW COVE RD. PVT. DR. & BOTH TOWER HILL RD. PVT. DRS.

REV. 09-10-13: ADDED Z BAR BETWEEN TRACT 211 & TRACT 99 AND LINED TROUGH TRACT 211

REV. 09-18-13: CORRECTED PROP. ROW CALLOUTS TABLE

REV. 04-07-14: ADJUSTED CUT SLOPE ON OLD SR-52 STA. 41+50 (LT). CHANGED PROPERTY OWNER NAME ON TR. NO. 101.

REV. 02-27-15: ADDED FLARE ON PVT. DRIVE STA. 534+02.51(RT).

DRAINAGE ESMT. CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
1	527+25.00	97.73'	1-2	N31°55'37"E	12.27'
2	527+25.00	110.00'	2-3	S58°34'58"E	51.83'
3	527+78.69	110.00'	⬡-⬡	° ' "	'
4	533+90.00	95.67'	4-5	N28°14'40"E	30.33'
5	533+90.00	126.00'	5-6	S62°25'13"E	61.91'
6	534+55.00	126.00'	6-7	S26°50'25"W	28.65'
7	534+55.00	97.35'	⬡-⬡	° ' "	'

LIMIT OF CONST.
40+50.00

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

SR-52 STA. 528+65.03 = HOOVER CEMETERY
OLD SR-52 STA. 43+46.36
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

SR-52 STA. 530+40.86 =
TOWER HILL RD STA. 50+00.00
N 765350.0572
E 2161274.6023

CHARLIE R. MAXFIELD AND WIFE JANE MAXFIELD (215)
JIM HUNTER (103)
TOMMY FEASTER AND WIFE KIMBERLY FEASTER (98)
KEVIN FLEMING (101)
BRITT POTTS AND WIFE SUZANNE POTTS (95)
THE TRUSTEES OF THE ALLONS BAPTIST CHURCH (211)
THE TRUSTEES OF THE ALLONS BAPTIST CHURCH (99)
JACK WATKINS AND WIFE RUTH ANN WATKINS (100)
PETER CORNEJO (97)
MISTY HUNTER (96)
SADIE LITTLE MAYNARD AND JOYCE ANN MAYNARD (92)

PROP. ROW CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
A	527+20.00	88.00'	A-B	N32°01'58"E	24.00'
B	527+20.00	112.00'	B-C	N54°39'28"E	57.51'
C	527+79.46	108.10'	⬡-⬡	° ' "	'
D	51+93.51	18.28'	D-E	S49°02'15"W	17.25'
E	51+80.00	30.00'	E-F	S13°05'11"W	47.29'
F	530+84.35	119.27'	⬡-⬡	° ' "	'
G	530+93.84	100.73'	⬡-⬡	° ' "	'

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S531	764985.4074	2162035.5978	1384.5900	XCP	GPS67-52-531	538+85.37	17.3070(RT)
S532	765160.9523	2161501.0753	1385.1200	XCP	GPS67-52-532	533+30.79	51.5728(RT)

CONST. ESMT. CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
a	527+25.00	110.00'	a-b	N31°55'37"E	20.00'
b	527+25.00	130.00'	b-c	S58°30'43"E	43.62'
c	527+70.52	130.00'	⬡-⬡	° ' "	'
d	534+55.00	97.35'	d-e	N26°50'25"E	28.65'
e	534+55.00	126.00'	e-f	N26°50'25"E	22.00'
f	534+55.00	148.00'	f-g	S63°51'03"E	48.30'
g	535+07.00	148.00'	g-h	S25°24'32"W	50.55'
h	535+07.00	97.45'	⬡-⬡	° ' "	'

CONSTRUCTION EASEMENT

DRAINAGE EASEMENT

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
NO. 108433
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 526+50 TO STA. 539+50

SCALE: 1"= 50'

25-FEB-2015 14:24
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	6B
CONST.	2014	APD/NH-52(48)	6B

REV. 04-07-14: LABELED RELOCATED WWC-1 AND REMOVED EXIST. WWC-1 FROM PROPOSED SHEET.

REV. 02-27-15: ADDED FLARE ON PVT. DRIVE STA. 534+02.51(RT).

SPECIAL DITCH CODES			
CODE	LABEL	STATION	OFFSET
A	BEG DIT	527+47.05	-73.00'
B	BEG DIT	527+47.05	-73.00'
C	END DIT	528+15.00	-76.00'
D	BEG DIT	42+50.00	37.00'
E	END DIT	42+60.00	55.00'
F	BEG DIT	532+70.00	-61.00'
G	END DIT	533+70.00	-76.00'
H	BEG DIT	61+20.00	-18.00'
I	END DIT	61+45.00	-35.00'

NOTES:

SEE SHEETS 28-28J FOR TEMP. WETLANDIMPACT DETAILS

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO PROTECT NON-IMPACTED PORTIONS OF WETLANDS FROM DISTURBANCES

LIMIT OF CONST.
40+50.00

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

SR-52
PI 536+26.88
N 765,057.9308
E 2,161,782.6208
Δs 17° 26′ 08″ (LT)
θs 7° 54′ 00″
Δc 1° 38′ 08″ (LT)
Dc 4° 00′ 00″
Rc 1,432.39
Lc 40.89
Ts 417.71
Ls 395.00
SE 0.078 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 265′

SC 536+04.17
CS 536+45.06

530

535

HOOVER CEMETERY ROAD
PI 61+35.98
N 765,311.5023
E 2,161,480.8646
Δ 23° 21′ 01″ (RT)
D 30° 00′ 00″
R 190.99
L 77.83
T 39.46
SE 0.050 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 89′

OLD SR-52
PI 41+95.42
N 765,577.2282
E 2,161,202.9113
Δ 38° 36′ 27″ (RT)
D 15° 00′ 00″
R 381.97
L 257.38
T 133.79
SE 0.036 FT/FT
DESIGN SPEED 35 MPH
TRANS. LENGTH 185′

TOWER HILL RD.
PI 51+32.31
N 765,098.0499
E 2,160,991.8087
Δ 23° 26′ 33″ (LT)
D 15° 00′ 00″
R 381.97
L 156.28
T 79.25
SE 0.049 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 115′

SR-52 STA. 528+65.03 =
OLD SR-52 STA. 43+46.36
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

SR-52 STA. 530+40.86 =
TOWER HILL RD STA. 50+00.00
N 765350.0572
E 2161274.6023

TOWER HILL RD.
PI 51+95.83
N 765,180.2928
E 2,161,176.9813
Δ 47° 11′ 58″ (LT)
D 15° 00′ 00″
R 381.97
L 314.66
T 166.88
SE 0.029 FT/FT
DESIGN SPEED 15 MPH
TRANS. LENGTH 45′

LEGEND	WETLAND IMPACTS (WTL-5)
	AREA OF TEMPORARY IMPACT = 0.14 AC
	VOLUME OF TEMPORARY IMPACT = 216 C.Y.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OMMERCE
NO. 106429
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 526+50 TO STA. 539+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	6C
CONST.	2014	APD/NH-52(48)	6C

TRANSITION 527+59.48 LT.-0.020
NORMAL CROWN
529+19.08 RT.-0.020
532+09.17 RT.-0.020
533+70.40 LT.-0.020
TRANSITION
536+04.17 RT. 0.078 LT.-0.078 F.S.
536+45.06 RT. 0.078 LT.-0.078
TRANSITION
538+78.84 LT.-0.020 N.C.

STA. 530+40.86 SR 52=
STA. 50+00.00 TOWER HILL RD.

OH WIRE
STA. 531+02.87
LOW WIRE EL.1411.13'
TEMP. 65 DEG.
3 POWER
1 TELEPHONE
1 CABLE

OH WIRE
STA. 529+04.11
LOW WIRE EL.1409.36'
TEMP. 65 DEG.
2 TELEPHONE
2 CABLE

OH WIRE
STA. 531+64.01
LOW WIRE EL.1406.65'
TEMP. 65 DEG.
3 POWER
1 TELEPHONE
1 CABLE

OH WIRE
STA. 536+69.34
LOW WIRE EL.1404.21'
TEMP. 65 DEG.
2 POWER
1 TELEPHONE

OH WIRE
STA. 537+11.84
LOW WIRE EL.1403.54'
TEMP. 65 DEG.
1 POWER
1 TELEPHONE

END PROJ. NO. 67002-3235-14
BEGIN PROJ. NO. 67002-3233-64
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19

LT 8 EW
RT 7 EW

LT 16 EW
RT 13 EW

VC = 175.00'
K = 145
V = 60 MPH

STA. 532+38.95 SR 52=
STA. 62+04.27 HOOVER CEMETERY RD.

VPC 534+62.26
EL. 1383.72

VPI 535+49.76
EL. 1383.20

VPT 536+37.26
EL. 1383.72

XCP-S532 (GPS 67-52-532)
STA. 533+30.79, 51.57'(RT)
N 765160.9523
E 2161501.0753
ELEV 1385.12
ALUM. DISK

EXISTING GROUNDLINE AT PROPOSED ℄

XCP-S531 (GPS 67-52-531)
STA. 538+86.37, 17.31'(RT)
N 764985.4074
E 2162035.6978
ELEV 1384.59
ALUM. DISK

-0.60%
-2.59%
0.68%
1.04%
-0.50%
-3.50%
-4.82%
-6.08%
0.60%
1.50%
0.50%

TO BE REMOVED

8" W
2" G

BEG DIT RT
STA. 526+50.00
EL. 1385.75

VPI RT 527+34.29
EL. 1383.60

BEGIN DIT LT
STA. 527+47.05
EL. 1381.79

END DIT LT
STA. 528+15.00
EL. 1382.50

END DIT RT
STA. 528+28.00
EL. 1384.25

BEG DIT RT
STA. 530+75.00
EL. 1380.81

BEGIN DIT LT
STA. 532+70.00
EL. 1379.56

VPI LT 533+00.00
EL. 1378.51

VPI LT 533+50.00
EL. 1376.10

END DIT LT
STA. 533+70.00
EL. 1374.86

VPI RT 534+36.00
EL. 1379.00

BEG DIT LT
STA. 534+50.00
EL. 1375.57

END DIT LT
STA. 536+00.00
EL. 1376.32

END DIT RT
STA. 536+15.00
EL. 1381.69

STA 527+23.59
EXISTING 24"CMP
SKEW 89° 40' 32" LT
FLOWS LEFT
INLET 1383.3590
OUTLET 1382.2740

STA. 528+65.03 SR 52=
STA. 30+00.00 ANDREW COVE RD.
STA. 43+46.36 OLD SR 52

STA. 527+39.00
112' OF 24" RCP WITH ENDWALLS
SKEW 85°00'00"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-6B(1)&(2)

D.A. = 3.95 AC.
Q50 = 30.43 CFS
Q100 = 33.42 CFS
W.S. ELEV. (50) = 1388.00
W.S. ELEV. (100) = 1388.06

STA 534+14.19
EXISTING 15"CMP
SKEW 85° 20' 41" LT
FLOWS LEFT
INLET 1380.1560
OUTLET 1375.8970

STA. 534+36.00
126' OF 24" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-6B(1)&(2), D-PE-4B(1)&(2)
EC-STR-21

D.A. = 5.05 AC.
Q50 = 28.94 CFS
Q100 = 31.51 CFS
W.S. ELEV. (50) = 1383.71
W.S. ELEV. (100) = 1383.83

STA 539+16.27
EXISTING 18"RCP
SKEW 89° 33' 4" RT
FLOWS LEFT
INLET 1381.3680
OUTLET 1374.7630

526+50 527+00 527+50 528+00 528+50 529+00 529+50 530+00 530+50 531+00 531+50 532+00 532+50 533+00 533+50 534+00 534+50 535+00 535+50 536+00 536+50 537+00 537+50 538+00 538+50 539+00 539+50

1430 1425 1420 1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365 1360 1355 1350 1345 1340 1335

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 108435
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 526+50 TO STA. 539+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	7
CONST.	2014	APD/NH-52(48)	7

REV. 09-10-13: ADDED Z BARS BETWEEN TRACT 89 & TRACT 90 AND LINED THROUGH TRACT 90

REV. 04-07-14:LABELED ROCK SHELTER AND ADDED ROCK SHELTER NOTE.

REV. 01-21-15: CHANGED PVT. DR. STA'S. 546+70.67 AND 549+11.05 TO 12' WIDTH. ADDED SPLIT TO FIELD ENT. STA. 545+41.28. DELETED ROW MARKER STA. 545+00.

REV. 02-27-15: ADDED FLARE ON BUSINESS ENT. STA. 548+56.88(LT).

AREA TO BE SCARIFIED SEEDED AND SODDED

94
HAROLD REEDER AND WIFE MARY REEDER
540

545

~~90~~
~~ALLONS SAWMILLS INC.~~

550

89
ALLONS SAWMILLS INC.

MATCH LINE STA. 539+50 SEE SHT. NO. 6

MATCH LINE STA. 552+50 SEE SHT. NO. 8

ST 540+40.06

PROP. ROW

FILL SLOPE

DENSE TREES

PRES. R.O.W.

EPH-2
WWC-2

EPH-3
WWC-3

2" G

INV-1374.76

INV-1383.28

INV-1383.54

CP-S530

15" CMP

S 78° 25' 17" E
374.28'

SCALES

1-SM BUS

CUT SLOPE

GRAVEL

INV-1386.72

INV-1387.35

24" RCP

INV-1387.20

INV-1388.13

INV-1388.88

18" CMP

INV-1389.21

S 77° 32' 08" E

SR-52

INV-1381.37

8" W

EIP

TRAILER

ROCK SHELTER

SHED

CONC.

CUT SLOPE

FILL SLOPE

PRES. R.O.W.

PROP. ROW

INV-1385.91

INV-1386.24

INV-1387.13

INV-1388.28

INV-1388.35

INV-1389.12

INV-1388.53

W.V.

WELL

1-SF RES

1-SBR RES

BARN

RW

93
TIFFANY K. AYTES
AND HUSBAND
JOESPH N. AYTES

91
J. BRUCE BARNES AND ORIVIE R. BARNES

87
BARBARBA MAYNORD %
NORMAN ELMO COLLINS
AND WIFE
ELSIE E. COLLINS , LIFE ESTATE

92

85

ST 550+80.70

NOTE:
IF DURING CONSTRUCTION, IT IS DETERMINED THAT THE ROCK SHELTER IS A SINKHOLE OR CAVE, THE CONSTRUCTION SUPERVISOR MUST CONTACT TDOT ENVIRONMENTAL DIVISION/PERMIT SECTION TO OBTAIN SINKHOLE PERMIT BEFORE THE TREATMENT IS PERFORMED.

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S530	764905.6450	2162648.8380	1387.5000	XCP	GPS67-52-530	545+01.02	38.2631(LT)

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106425
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	7A
CONST.	2014	APD/NH-52(48)	7A

REV. 09-10-13: ADDED Z BARS BETWEEN TRACT 89 & TRACT 90 AND LINED THROUGH TRACT 90

REV. 01-21-15: CHANGED PVT. DR. STA'S. 546+70.67 AND 549+11.05 TO 12' WIDTH. ADDED SPLIT TO FIELD ENT. STA. 545+41.28. DELETED ROW MARKER STA. 545+00.

REV. 02-27-15: ADDED FLARE ON BUSINESS ENT. STA. 548+56.88(LT).

N 83° 8' 4" E 122.65'

S 89° 56' 18" W 715.50'

N 11° 3' 46" W 342.69'

N 1° 10' 4" W 408.82'

94

HAROLD REEDER AND WIFE MARY REEDER

540

545

90

~~ALLONS SAWMILLS INC.~~

550

89

ALLONS SAWMILLS INC.

ST 540+40.06

542+00.00
194.00'

N 85° 52' 31" E
341.79'

PROP. ROW

FILL SLOPE

S 40° 51' 54" E
141.69'

543+13.65
109.38'

544+02.20
104.40'

N 74° 19' 04" W
133.58'

545+35.56
96.90'

542+69.20
111.88'

N 74° 19' 4" W
88.69'

A

N 81° 38' 13" W
492.12'

PRES. R.O.W.

N 74° 19' 04" W
44.52'

FILL SLOPE

CP-S530

S 78° 25' 17" E
374.28'

549+09.79
102.69'

N 1° 10' 04" W
27.98'

549+16.39
75.49'

PROP. ROW S 78° 25' 17" E
505.11'

N 74° 19' 04" W
381.42'

CUT SLOPE

PRES. R.O.W.

FILL SLOPE

S 74° 19' 4" E
466.93'

MATCH LINE STA. 539+50 SEE SHT. NO. 6A

MATCH LINE STA. 552+50 SEE SHT. NO. 8A

S 77° 32' 08" E

SR-52

540+00.43
42.34'

EIP

S 15° 59' 52" W
42.00'

N 74° 52' 17" W
291.11'

PRES. R.O.W.

542+91.17
55.86'

S 6° 49' 18" W
39.59'

S 74° 52' 17" E
331.16'

546+21.97
71.25'

PRES. R.O.W.

N 75° 25' 15" W
415.16'

CONC.

N 14° 12' 26" E
47.56'

552+26.87
92.99'

N 11° 36' 04" E
40.69'

N 75° 20' 5" W
188.57'

FILL SLOPE

CUT SLOPE

S 76° 49' 09" E
299.02'

PROP. ROW

CONC.

S 76° 49' 09" E
200.95'

CUT SLOPE

550+36.85
86.57'

96

N 4° 05' 22" E
15.67'

540+00.21
99.77'

N 4° 5' 22" E
104.12'

93

TIFFANY K. AYTES
AND HUSBAND
JOESPH N. AYTES

542+99.07
103.49'

S 13° 29' 09" E
9.16'

S 74° 31' 52" E
536.14'

PROP. ROW

S 74° 31' 52" E
114.22'

A

S 13° 29' 09" E
108.72'

545+00.00
106.00'

550+35.40
134.10'

551+50.00
140.00'

552+28.22
133.66'

N 14° 12' 26" E
142.47'

TS 550+80.70

S 81° 43' 26" E
76.64'

S 81° 43' 26" E
309.37'

N 11° 36' 4" E
144.42'

87

S 79° 27' 29" E
326.00'

S 13° 50' 19" E
205.99'

S 76° 49' 09" E
257.65'

S 76° 50' 32" E
197.02'

CONC.

CONC.

CONC.

N 81° 31' 2" W
262.52'

N 78° 14' 9" E
273.27'

92

91

J. BRUCE BARNES AND ORIVIE R. BARNES

85

BARBARBA MAYNORD %
NORMAN ELMO COLLINS
AND WIFE
ELSIE E. COLLINS , LIFE ESTATE

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S530	764905.6450	2162648.8380	1387.5000	XCP	GPS67-52-530	545+01.02	38.2631(LT)

UNOFFICIAL SET

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SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

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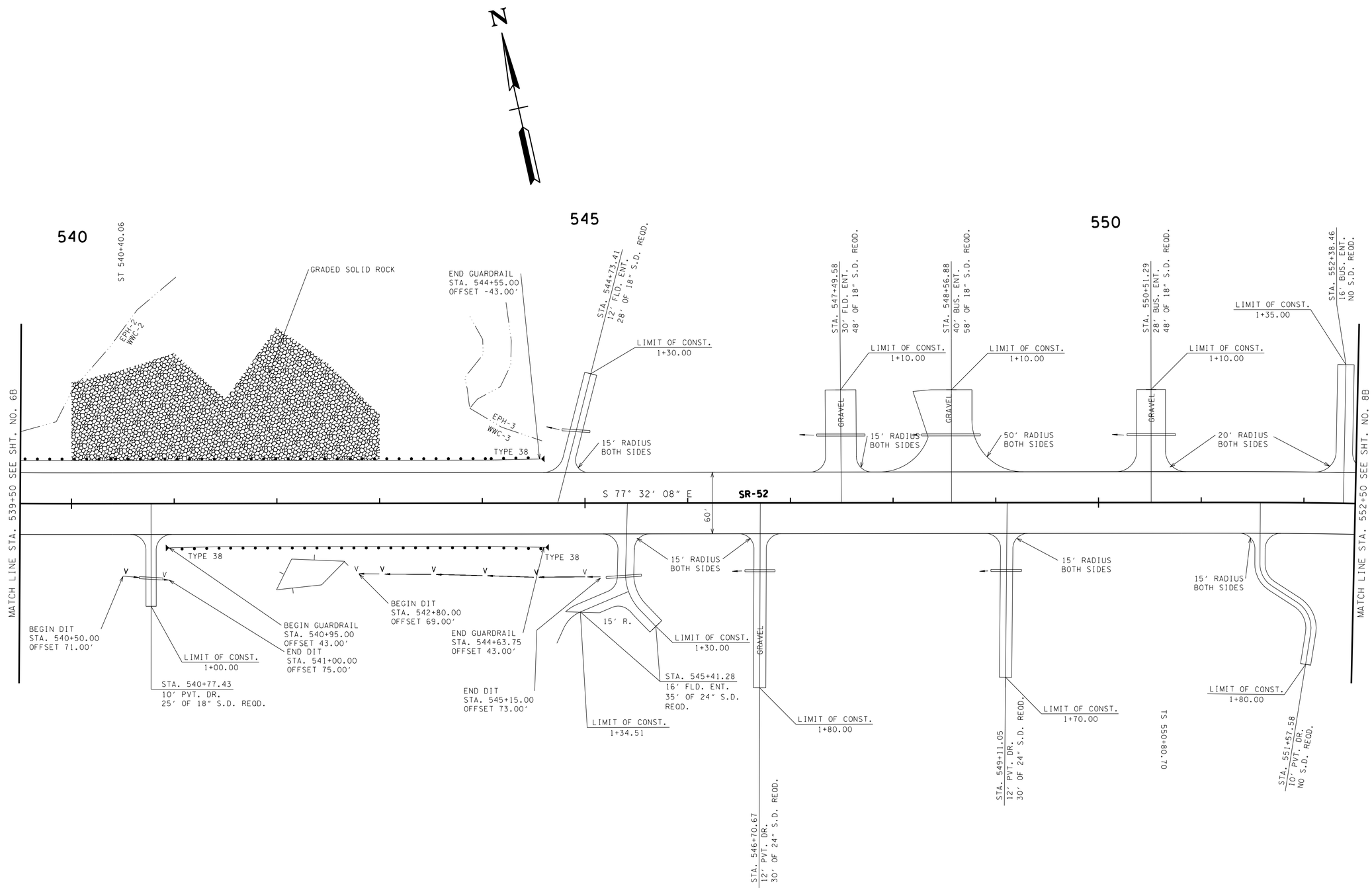
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	7B
CONST.	2014	APD/NH-52(48)	7B

REV. 07-15-13: ADDED ROCK FILL SLOPE

REV. 01-21-15: CHANGED PVT. DRIVE STA'S. 546+70.67 AND 549+11.05 TO 12' WIDTH. ADDED SPLIT TO FIELD ENT. STA. 545+41.28.

REV. 02-27-15: ADDED FLARE ON BUSINESS ENT. STA. 548+56.88(LT).



UNOFFICIAL SET

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SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	7C
CONST.	2014	APD/NH-52(48)	7C

NORMAL CROWN

NORMAL CROWN

TRANSITION

TRANSITION

540+40.06 RT.-0.020

550+80.70 LT.-0.020

552+36.74 RT.-0.020

OH WIRE
STA. 541+19.73
LOW WIRE EL.1405.70'
TEMP. 65 DEG.
4 GUY WIRE

OH WIRE
STA. 544+17.64
LOW WIRE EL.1411.16'
TEMP. 65 DEG.
4 POWER

OH WIRE
STA. 549+34.51
LOW WIRE EL.1413.68'
TEMP. 65 DEG.
1 TELEPHONE

OH WIRE
STA. 550+14.67
LOW WIRE EL.1419.24'
TEMP. 65 DEG.
5 POWER
1 TELEPHONE

XCP-S530 (GPS 67-52-530)
STA. 545+01.02, -38.26'(LT)
N 764905.6450
E 2162648.8380
ELEV 1387.50
ALUM. DISK

0.60%

-0.50%

0.50%

0.60%

-1.00%

EXISTING GROUNDLINE
AT PROPOSED ℄

BEG DIT RT
STA. 540+50.00
EL. 1380.62

END DIT RT
STA. 541+00.00
EL. 1380.37

BEG DIT RT
STA. 542+80.00
EL. 1382.04

END DIT RT
STA. 545+15.00
EL. 1383.22

VPC 550+91.42
EL. 1392.45

VPI 552+13.92
EL. 1393.18

VC = 245.00'
K = 153
V = 60 MPH

8" W
2" G

1435 1430 1425 1420 1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365 1360 1355 1350 1345 1340

539+50 540+00 540+50 541+00 541+50 542+00 542+50 543+00 543+50 544+00 544+50 545+00 545+50 546+00 546+50 547+00 547+50 548+00 548+50 549+00 549+50 550+00 550+50 551+00 551+50 552+00 552+50

UNOFFICIAL SET
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SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OF
COMMERCE
NO. 108423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	8
CONST.	2014	APD/NH-52(48)	8

REV. 10-04-13: CHANGED TRACT 66 TO TRACT 66-A

REV. 01-17-14: CHANGED CONST. ESMT. TO DRAIN. ESMT. TRACT 84

REV. 02-27-15: CHANGED PROPERTY OWNER NAME ON TR. NO. 81.

SR-52
PI 559+38.46
N 764,558.0347
E 2,164,044.1389
Δs 42° 08′ 17″ (RT)
θs 5° 46′ 07″
Δc 30° 36′ 02″ (RT)
Dc 3° 15′ 00″
Rc 1,762.95
Lc 941.55
Ts 857.76
Ls 355.00
SE 0.071 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 368′

LEE SAVAGE AND WIFE BRENDA SAVAGE (83)
THOMAS WAYNE BROWN AND WIFE WINNE BROWN (82)
GEORGE BARRIGER AND WIFE LULA BARRIGER (88)
CHARLES THOMPSON AND WIFE BARBARA THOMPSON (81)
BILLY D. POSTON AND WIFE CONNIE J. POSTON (80)
DURELL MAYNORD AND WIFE BARBARBA MAYNORD (86)
IVA HUNTER ESTATE OF JILLARD HUNTER (84)
BARBARBA MAYNORD % NORMAN ELMO COLLINS AND WIFE ELSIE E. COLLINS , LIFE ESTATE (85)
BRANDON J. RIGSBY AND WIFE ANDREA T. RIGSBY (66-A)

SR-52 STA. 561+76.14 =
TOM SMITH RD. STA. 72+66.01
N 764284.5478
E 2164185.1421

LIMIT OF CONST. 70+10.00

TOM SMITH ROAD
PI 71+90.84
N 764,342.7269
E 2,164,238.0767
Δ 34° 07′ 59″ (LT)
D 30° 00′ 00″
R 190.99
L 113.78
T 58.63
SE 0.018 FT/FT
DESIGN SPEED 25 MPH
TRANS. LENGTH 170′

AREA TO BE SCARIFIED SEEDED AND SODDED
CONSTRUCTION EASEMENT
DRAINAGE EASEMENT

LEGEND	WETLAND IMPACTS (WTL-7)
	AREA OF PERMANENT IMPACT = 0.02 AC VOLUME OF PERMANENT IMPACT = 38 C.Y.
	AREA OF TEMPORARY IMPACT = 0.06 AC VOLUME OF TEMPORARY IMPACT = 120 C.Y.

CONTROL POINTS							
Point	North	East	Elevation	Feature	Description	Station	Offset
S528	764650.6846	2163658.8685	1390.3000	XCP	GPS67-52-528	555+38.30	32.9082(LT)

MATCH LINE STA. 552+50 SEE SHT. NO. 7
MATCH LINE STA. 565+50 SEE SHT. NO. 9

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50'

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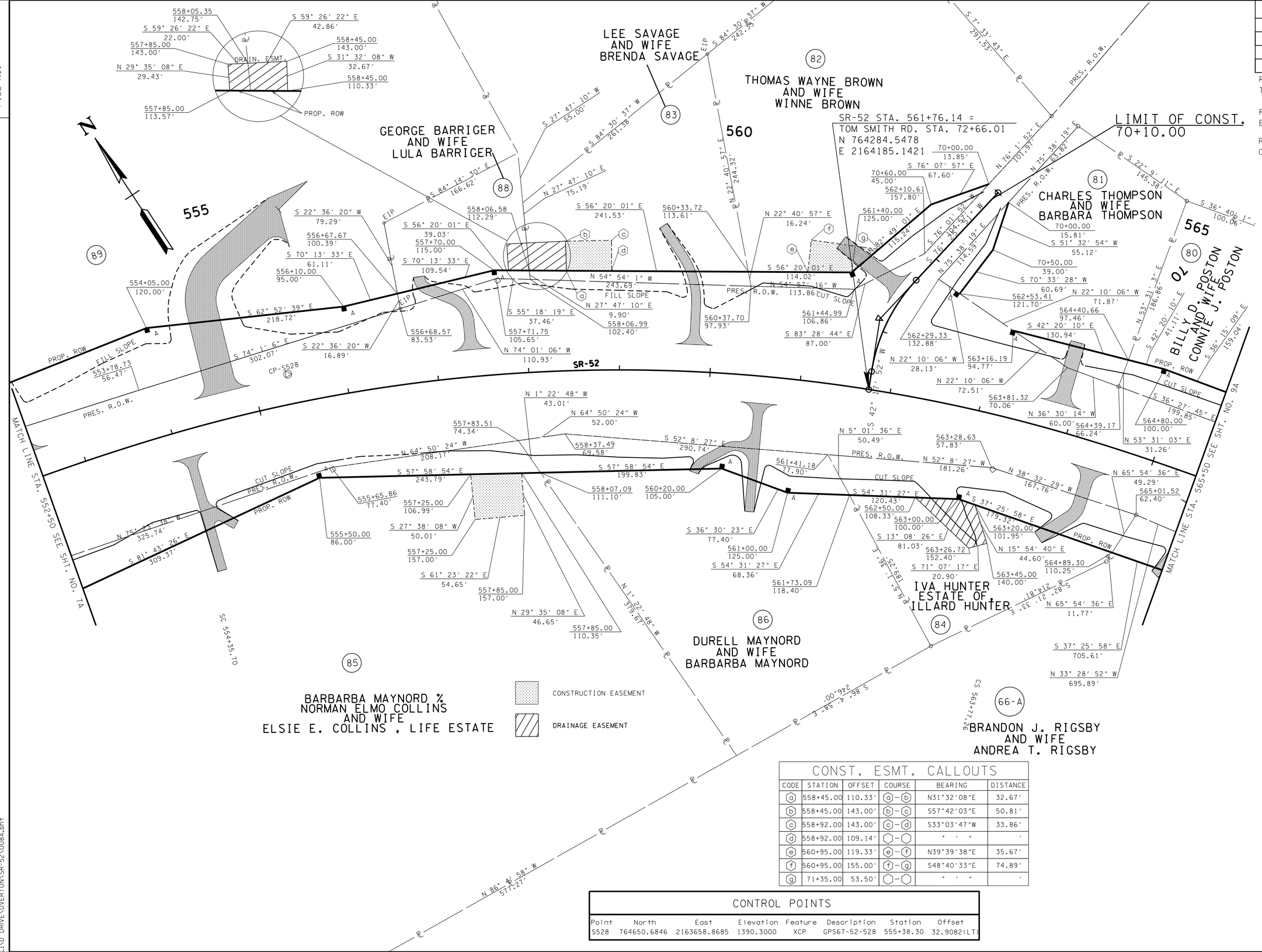
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	8A
CONST.	2014	APD/NH-52(48)	8A

REV. 10-04-13: CHANGED TRACT 66 TO TRACT 66-A

REV. 01-17-14: CHANGED CONST. ESMT. TO DRAIN. ESMT. TRACT 84

REV. 02-27-15: CHANGED PROPERTY OWNER NAME ON TR. NO. 81.



CONST. ESMT. CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
a	558+45.00	110.33'	g–b	N31°32'08"E	32.67'
b	558+45.00	143.00'	b–c	S57°42'03"E	50.81'
c	558+92.00	143.00'	c–d	S33°03'47"W	33.86'
d	558+92.00	109.14'	◯–◯	° ' "	'
e	560+95.00	119.33'	e–f	N39°39'38"E	35.67'
f	560+95.00	155.00'	f–g	S48°40'33"E	74.89'
g	71+35.00	53.50'	◯–◯	° ' "	'

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S528	764650.6846	2163658.8685	1390.3000	XCP	GPS67-52-528	555+38.30	32.9082(LT)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
No. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50'

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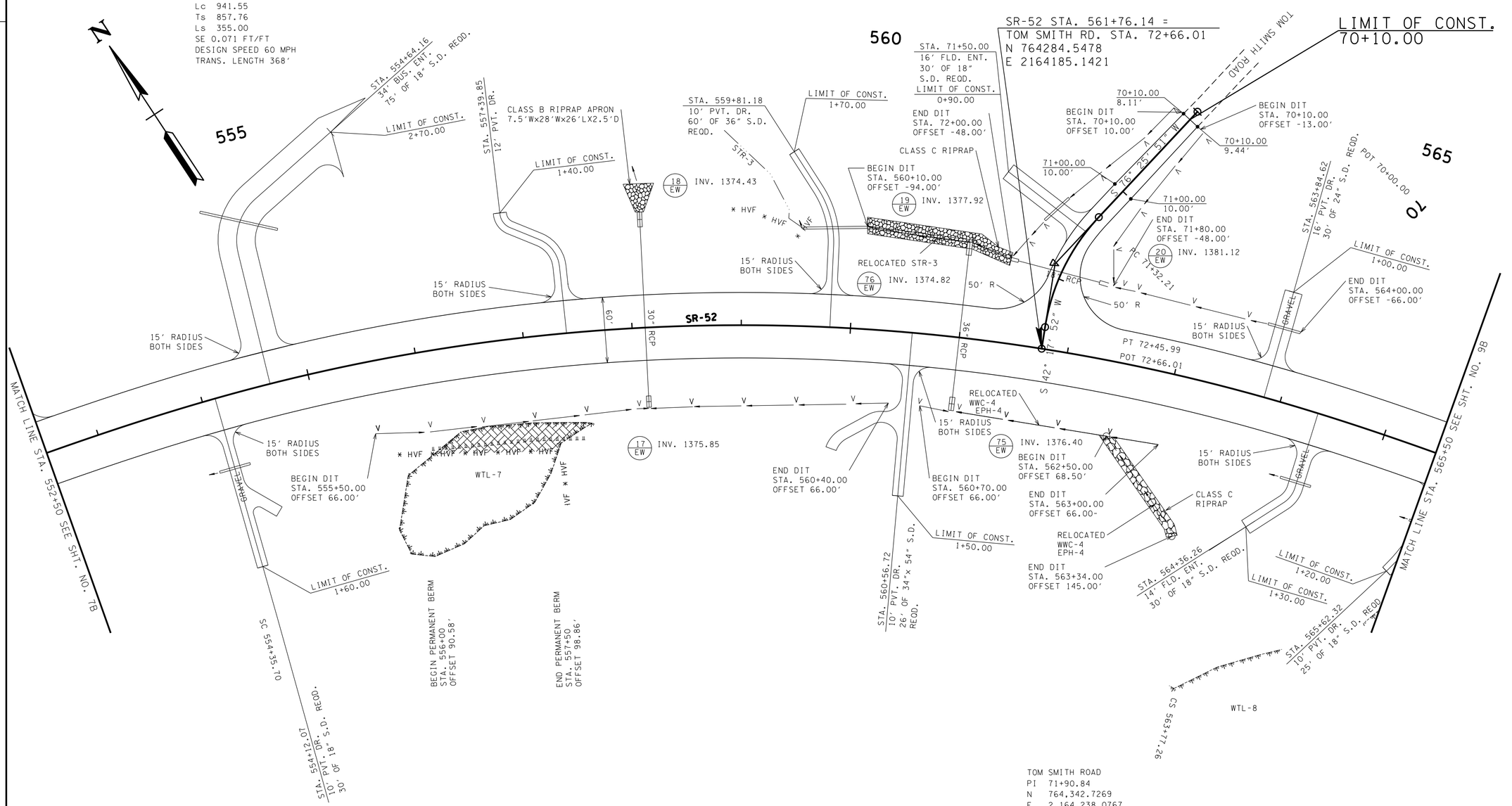
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	8B
CONST.	2014	APD/NH-52(48)	8B

REV. 04-07-14: ADDED PERMANENT BERM STA. 556+00(RT).

SR-52
PI 559+38.46
N 764,558.0347
E 2,164,044.1389
Δs 42° 08' 17" (RT)
θs 5° 46' 07"
Δc 30° 36' 02" (RT)
Dc 3° 15' 00"
Rc 1,762.95
Lc 941.55
Ts 857.76
Ls 355.00
SE 0.071 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 368'



LEGEND	WETLAND IMPACTS (WTL-7)
	AREA OF TEMPORARY IMPACT = 0.06 AC
	VOLUME OF TEMPORARY IMPACT = 120 C.Y.

NOTES:

SEE SHEETS 28-28J FOR TEMP. WETLANDIMPACT DETAILS

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO PROTECT NON-IMPACTED PORTIONS OF WETLANDS FROM DISTURBANCES

TOM SMITH ROAD
PI 71+90.84
N 764,342.7269
E 2,164,238.0767
Δ 34° 07' 59" (LT)
D 30° 00' 00"
R 190.99
L 113.78
T 58.63
SE 0.018 FT/FT
DESIGN SPEED 25 MPH
TRANS. LENGTH 170'

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE & COMMERCE
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	8C
CONST.	2014	APD/NH-52(48)	8C

TRANSITION
TRANSITION
554+35.70 554+35.70
RT.-0.071 LT. 0.071
FULL SUPER
FULL SUPER
563+77.26 563+77.26
RT.-0.071 LT. 0.071
TRANSITION
TRANSITION

VPT 553+36.42
EL. 1391.96

OH WIRE
STA. 557+48.36
LOW WIRE EL.1406.98'
TEMP. 65DEG.
2 POWER
1 TELEPHONE
1 CABLE

OH WIRE
STA. 561+05.79
LOW WIRE EL.1407.00'
TEMP. 65DEG.
2 POWER
1 TELEPHONE

VC = 560.00'
K = 148
V = 60 MPH

OH WIRE
STA. 562+85.15
LOW WIRE EL.1410.85'
TEMP. 65 DEG.
4 POWER
2 TELEPHONE
2 CABLE

VPT 564+63.55
EL. 1391.61

STA. 561+76.14 SR 52=
STA. 72+66.01 TOM SMITH RD.

EXISTING GROUNDLINE
AT PROPOSED ℄

XCP-S528 (GPS 67-52-528)
STA. 555+38.30, -32.91'(LT)
N 764650.6846
E 2163658.8685
ELEV 1390.30
ALUM. DISK

LT 18 EW
RT 17 EW
LT 76 EW
RT 75 EW

VPC 559+03.55
EL. 1386.29

VPI 561+83.55
EL. 1383.49

-1.00%
-2.67%
1.29%
-1.00%
1.43%
8.57%
1.41%
2.21%
3.77%
2.90%

TO BE REMOVED
TO BE REMOVED

BEG DIT RT
STA. 555+50.00
EL. 1382.84

VPI RT 558+12.00
EL. 1375.65

BEGIN DIT LT
STA. 560+10.00
EL. 1373.50

END DIT RT
STA. 560+40.00
EL. 1378.54

BEGIN DIT RT
STA. 560+70.00
EL. 1378.63

VPI LT 561+00.00
EL. 1374.82

VPI LT 561+35.00
EL. 1377.82

VPI RT 561+00.00
EL. 1376.40

END DIT RT
STA. 563+00.00
EL. 1380.82

END DIT LT
STA. 564+00.00
EL. 1387.80

STA 557+92.42
EXISTING 48"CMP
SKEW 89° 58' 19" RT
FLOWS LEFT
INLET 1378.6250
OUTLET 1374.4310

STA. 558+12.00
155' OF 30" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-4B(1)&(2)

D.A. = 10.62 AC.
Q50 = 30.85 CFS
Q100 = 33.94 CFS
W.S. ELEV. (50) = 1379.10
W.S. ELEV. (100) = 1379.42

STA 561+26.34
EXISTING 24"CMP
SKEW 59° 55' 47" RT
FLOWS LEFT
INLET 1381.4690
OUTLET 1380.1230

STA. 561+00.00
131' OF 36" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-3B(1)&(2)

D.A. = 30.56 AC.
Q50 = 57.17 CFS
Q100 = 63.13 CFS
W.S. ELEV. (50) = 1380.99
W.S. ELEV. (100) = 1381.55

1435 1430 1425 1420 1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365 1360 1355 1350 1345 1340

552+50 553+00 553+50 554+00 554+50 555+00 555+50 556+00 556+50 557+00 557+50 558+00 558+50 559+00 559+50 560+00 560+50 561+00 561+50 562+00 562+50 563+00 563+50 564+00 564+50 565+00 565+50

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UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI AGRICULTURE XVI COMMERCE
NO. 106422
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

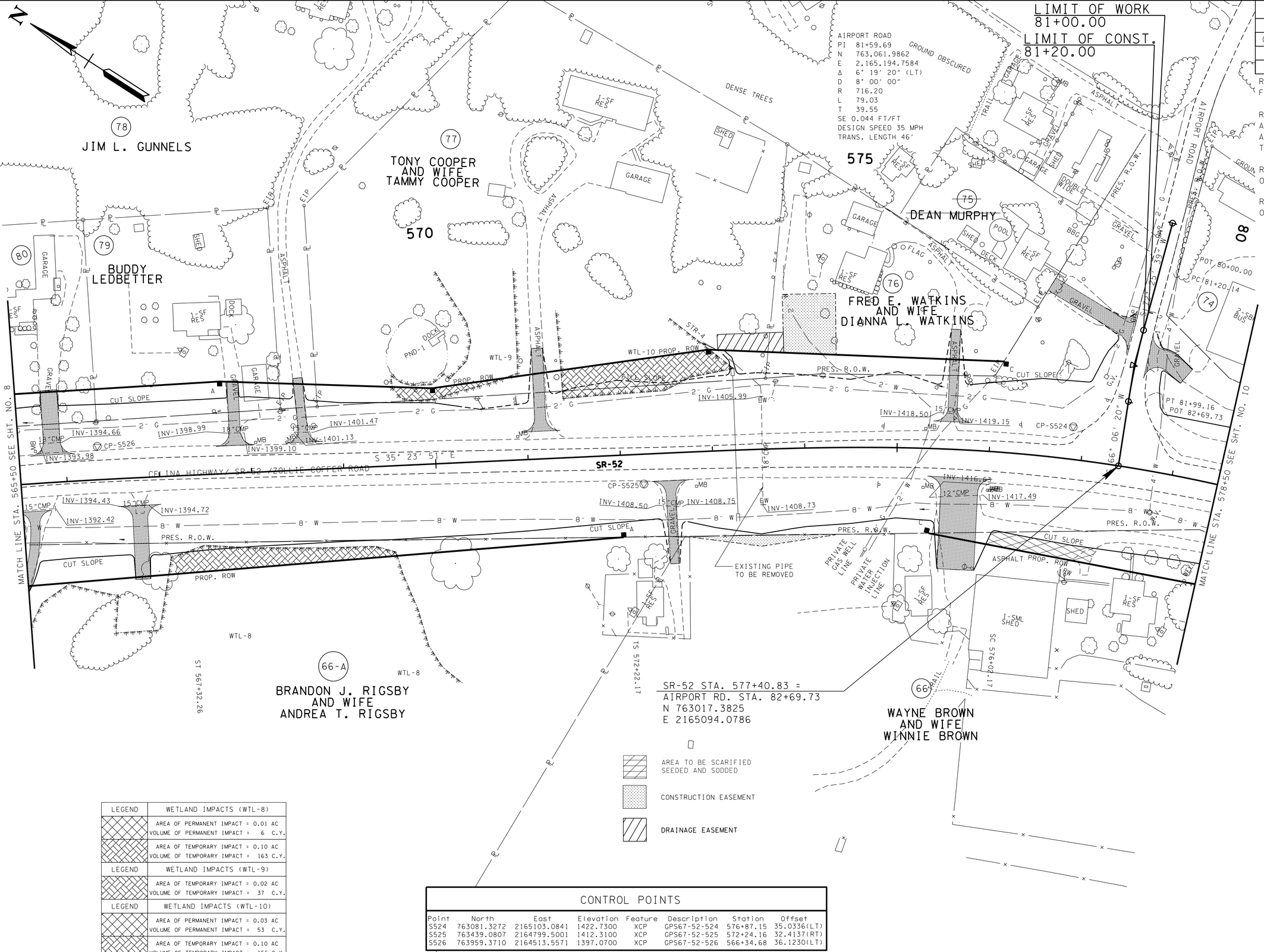
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	9
CONST.	2014	APD/NH-52(48)	9

REV. 12-07-12: ADDED SLOPE LINES FOR STR-4

REV. 10-04-13: ADDED TRACT 66-A, ADJUSTED PROPERTY OWNER TRACT 66 AND ADJUSTED CONST. ESMT. TRACT 66

REV. 08-20-14: CHANGED PROPERTY OWNER NAME ON TR. NO. 79.

REV. 02-27-15: CHANGED PROPERTY OWNER NAME ON TR. NOS. 77 AND 79.



LEGEND	WETLAND IMPACTS (WTL-8)
	AREA OF PERMANENT IMPACT = 0.01 AC VOLUME OF PERMANENT IMPACT = 6 C.Y.
	AREA OF TEMPORARY IMPACT = 0.10 AC VOLUME OF TEMPORARY IMPACT = 163 C.Y.
LEGEND	WETLAND IMPACTS (WTL-9)
	AREA OF TEMPORARY IMPACT = 0.02 AC VOLUME OF TEMPORARY IMPACT = 37 C.Y.
LEGEND	WETLAND IMPACTS (WTL-10)
	AREA OF PERMANENT IMPACT = 0.03 AC VOLUME OF PERMANENT IMPACT = 53 C.Y.
	AREA OF TEMPORARY IMPACT = 0.10 AC VOLUME OF TEMPORARY IMPACT = 156 C.Y.

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S524	763081.3272	2165103.0841	1422.7300	XCP	GPS67-52-524	576+87.15	35.0336(LT)
S525	763439.0807	2164799.5001	1412.3100	XCP	GPS67-52-525	572+24.16	32.4137(RT)
S526	763959.3710	2164513.5571	1397.0700	XCP	GPS67-52-526	566+34.68	36.1230(LT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	9A
CONST.	2014	APD/NH-52(48)	9A

REV. 12-07-12: ADDED SLOPE LINES FOR STR-4

REV. 10-04-13: ADDED TRACT 66-A, ADJUSTED PROPERTY OWNER TRACT 66 AND ADJUSTED CONST. ESMT. TRACT 66

REV. 08-20-14: CHANGED PROPERTY OWNER NAME ON TR. NO. 79.

REV. 02-27-15: CHANGED PROPERTY OWNER NAME ON TR. NOS. 77 & 79.

REV. 04-22-15: ADDED DISTANCES ON TR. NO. 77 DRAINAGE EASEMENT.

LIMIT OF WORK
81+00.00
LIMIT OF CONST.
81+20.00

78
JIM L. GUNNELS

77
TONY COOPER
AND WIFE
TAMMY COOPER

570

575

75
DEAN MURPHY

80

79
BUDDY
LEDBETTER

76
FRED E. WATKINS
AND WIFE
DIANNA L. WATKINS

74

66-A
BRANDON J. RIGSBY
AND WIFE
ANDREA T. RIGSBY

66
WAYNE BROWN
AND WIFE
WINNIE BROWN

SR-52

MATCH LINE STA. 565+50 SEE SHT. NO. 8A

MATCH LINE STA. 578+50 SEE SHT. NO. 10A

ST 567+32.26

IS 572+22.17

SC 576+02.17

SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786

CONSTRUCTION EASEMENT

DRAINAGE EASEMENT

CONST. ESMT. CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
a	573+80.00	103.88′	a–b	N55°44′59″E	22.12′
b	573+80.00	126.00′	b–c	N55°44′59″E	41.00′
c	573+80.00	167.00′	c–d	S33°48′11″E	57.74′
d	574+35.00	167.00′	d–e	S56°41′19″W	66.45′
e	574.35.00	100.55′	⬡–⬡	° ′ ″	′

DRAINAGE ESMT. CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
1	573+10.00	109.18′	1–2	N54°57′28″E	16.82′
2	573+10.00	126.00′	2–3	S34°40′59″E	57.16′
3	573+65.86	125.92′	3–4	34S°40′59″E	14.58′
4	573+80.00	126.00′	4–5	S55°44′59″W	22.12′
5	573+80.00	103.88′	⬡–⬡	° ′ ″	′

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S524	763081.3272	2165103.0841	1422.7300	XCP	GPS67-52-524	576+87.15	35.0336(LT)
S525	763439.0807	2164799.5001	1412.3100	XCP	GPS67-52-525	572+24.16	32.4137(RT)
S526	763959.3710	2164513.5571	1397.0700	XCP	GPS67-52-526	566+34.68	36.1230(LT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
SUMNER
NO. 109423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	9B
CONST.	2014	APD/NH-52(48)	9B

AIRPORT ROAD
PI 81+59.69
N 763,061.9862
E 2,165,194.7584
Δ 6° 19′ 20″ (LT)
D 8° 00′ 00″
R 716.20
L 79.03
T 39.55
SE 0.044 FT/FT
DESIGN SPEED 35 MPH
TRANS. LENGTH 46′

575

LIMIT OF WORK
81+00.00
LIMIT OF CONST.
81+20.00

570

STA. 565+86.04
18″ PVT. DR.
34′ OF 24″ S.D. REQD.
LIMIT OF CONST. 1+00.00
STA. 567+83.76
12′ PVT. DR.
24′ OF 18″ S.D. REQD.
LIMIT OF CONST. 1+00.00
STA. 568+60.45
10′ PVT. DR.
24′ OF 18″ S.D. REQD.
LIMIT OF CONST. 1+00.00
STA. 571+16.08
12′ PVT. DR.
LIMIT OF CONST. 1+20.00
CLASS C RIPRAP APRON
26′W×12′W×22′L×3.5′D
END STR-4
STREAM STA. 0+22.00
SR-52 STA. 573+14.00
SR-52 OFFSET -106.00′
BEGIN STR-4
STREAM STA. 0+00.00
SR-52 STA. 573+25.00
SR-52 OFFSET -89.50′
GRADED SOLID ROCK FILL
FOR EXISTING STREAM
22 EW INV. 1401.95
GRADED SOLID ROCK
UNDER FILL SLOPE
STA. 575+57.37
10′ PVT. DR.
20′ OF 18″ S.D. REQD.
STA. 81+29.30
16′ PVT. DR.
LIMIT OF CONST. 1+15.00
81+20.00
10.16′
GRAVEL
LIMIT OF CONST. 1+30.00
BEGIN DIT
STA. 81+40.00
OFFSET 23.00′
END DIT
STA. 82+05.00
OFFSET 38.00′
15′ RADIUS BOTH SIDES
50′ R
66° 06′ 20″ W
AIRPORT ROAD
S 35° 39′ W
POT 80+00.00
PC 81+20.14
15′ RADIUS BOTH SIDES
81+20.00
11.31′
STA. 81+45.79
20′ BUS. ENT.
LIMIT OF CONST. 0+60.00
PT 81+99.16
POT 82+69.73
50′ R
WTL-9
WTL-10
* HVF
MATCH LINE STA. 565+50 SEE SHT. NO. 8B
MATCH LINE STA. 578+50 SEE SHT. NO. 10B
CHEROKEE HIGHWAY / SR-52 / ZOLLIE COFFER ROAD
S 35° 23′ 51″ E
SR-52
60
24 RCP
15′ RADIUS BOTH SIDES
21 EW INV. 1405.38
BEGIN DIT
STA. 572+70.00
OFFSET 66.00′
END DIT
STA. 575+00.00
OFFSET 66.00′
LIMIT OF CONST. 1+20.02
STA. 572+52.56
10′ PVT. DR.
LIMIT OF CONST. 1+30.00
STA. 575+69.59
40′ PVT. DR.
60′ OF 24″ S.D. REQD.
SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786
LIMIT OF CONST. 1+10.00
WTL-8
STA. 566+77.31
16′ FLD. ENT.
35′ OF 18″ S.D. REQD.
ST 569+32.26
ST 572+22.17
SC 576+02.17

LEGEND	WETLAND IMPACTS (WTL-8)
	AREA OF TEMPORARY IMPACT = 0.10 AC VOLUME OF TEMPORARY IMPACT = 163 C.Y.
LEGEND	WETLAND IMPACTS (WTL-9)
	AREA OF TEMPORARY IMPACT = 0.02 AC VOLUME OF TEMPORARY IMPACT = 37 C.Y.
LEGEND	WETLAND IMPACTS (WTL-10)
	AREA OF TEMPORARY IMPACT = 0.10 AC VOLUME OF TEMPORARY IMPACT = 156 C.Y.

NOTES:

SEE SHEETS 28-28J FOR STREAM RELOCATION AND TEMP. WETLAND IMPACT DETAILS AND NOTES REGARDING RIP-RAP

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO PROTECT NON-IMPACTED PORTIONS OF WETLANDS AND STREAMS FROM DISTURBANCES

SPECIAL DITCH CODES			
CODE	LABEL	STATION	OFFSET
A	BEG DIT	81+60.00	-24.00′
B	END DIT	82+10.00	-35.00′
C	BEG DIT	577+75.00	-57.00′

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI AGRICULTURE DOMER
NO. 108433
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50′

22-JAN-2015 07:33
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	9C
CONST.	2014	APD/NH-52(48)	9C

TRANSITION (TRANSITION 565+76.21 RT.-0.020) | 567+32.26 LT.-0.020
NORMAL CROWN
572+22.17 LT.-0.020 | TRANSITION 573+83.88 RT.-0.020
576+02.17 LT. 0.074 | FULL SUPER 576+02.17 RT.-0.074

⊙ OH WIRE
STA. 570+84.27
LOW WIRE EL.1429.49'
TEMP. 65 DEG.
2 POWER
1 TELEPHONE
1 CABLE

VPC 572+91.58
EL. 1415.62

LT 22 EW
RT 21 EW

⊙ OH WIRE
STA. 576+81.20
LOW WIRE EL.1445.30'
TEMP.65 DEG.
3 POWER
1 TELEPHONE
1 CABLE

VPI 577+89.18
EL. 1430.05

STA. 577+40.83 SR 52
STA. 82+69.73 AIRPORT RD.

XCP-S524 (GPS 67-52-524)
STA. 576+87.15, -35.03'(LT)
N 763081.3272
E 2165103.0841
ELEV 1422.73
ALUM. DISK

-2.50%
2.90%
2" G
8" W

XCP-S525 (GPS 67-52-525)
STA. 572+24.16, 32.41'(RT)
N 763439.0807
E 2164799.5001
ELEV 1412.31
ALUM. DISK

TO BE REMOVED

-8.25%
5.18%
2" G
8" W

STA 573+43.32
EXISTING 18"CMP
SKEW 89° 43' 36" LT
FLOWS LEFT
INLET 1408.7350
OUTLET 1405.9920

BEG DIT LT
STA. 577+75.00
EL. 1422.04

XCP-S526 (GPS 67-52-526)
STA. 566+34.68, -36.12'(LT)
N 763959.3710
E 2164513.5571
ELEV 1397.07
ALUM. DISK

2.90%
2" G
8" W

EXISTING GROUNDLINE AT PROPOSED ℄

BEGIN DIT RT
STA. 572+70.00
EL. 1409.92

VPI RT 573+25.00
EL. 1405.38

END DIT RT
STA. 575+00.00
EL. 1414.44

VC = 995.00'
K = 184
V = 60+ MPH

STA. 573+25.00
150' OF 24" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-4B(1)&(2)

D.A. = 4.93 AC.
Q50 = 19.48 CFS
Q100 = 21.21 CFS
W.S. ELEV. (50) = 1408.24
W.S. ELEV. (100) = 1408.52

1455 1450 1445 1440 1435 1430 1425 1420 1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365 1360

565+50 566+00 566+50 567+00 567+50 568+00 568+50 569+00 569+50 570+00 570+50 571+00 571+50 572+00 572+50 573+00 573+50 574+00 574+50 575+00 575+50 576+00 576+50 577+00 577+50 578+00 578+50

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
No. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 565+50 TO STA. 578+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	10
CONST.	2014	APD/NH-52(48)	10

REV. 12-07-12: ADJUSTED ROW TRACT 62

REV. 10-04-13: ADJUSTED PROPERTY OWNER TRACTS 64 & 66

REV. 01-17-14: CORRECTED PROPERTY OWNER NAME TRACTS 69 & 71

REV. 04-07-14: REMOVED PVT. DRIVE STA. 588+47. ADDED PVT. DRIVE STA. 588+04.

REV. 08-20-14: CHANGED PROPERTY OWNER NAME ON TR. NO. 64.

REV. 02-27-15: CHANGED PROPERTY OWNER NAME ON TR. NO. 63.

N

SR-52
PI 580+32.56
N 762,798.8851
E 2,165,294.1851
Δs 41° 25′ 51″ (RT)
θs 6° 39′ 00″
Δc 28° 07′ 51″ (RT)
Dc 3° 30′ 00″
Rc 1,637.02
Lc 803.74
Ts 810.39
Ls 380.00
SE 0.074 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 380′

580 585 590

73 PATRICIA LYNN MELTON

71 DELBERT STAGGS
GROUND OBSCURED

DELBERT STAGGS AND WIFE EDWINA STAGGS

68 DONALD W. HOUGE AND DONALD G. HOUGE

67 MICHAEL HOUGE

63 CINDY JOHNS

62 DAVID R. HOGUE AND WIFE NORMA RUTH HOGUE

74 HAROLD HAMMOCK AND WIFE EVA JEAN HAMMOCK AND SCOTT HAMMOCK

70 SHIRLEY STAGGS

LIMIT OF CONST.
90+35.00

POT 90+00.00

POT 91+72.78

SR-52

THIS IS A 1" SERVICE LINE

PROP. ROW

FILL SLOPE

CUT SLOPE

PRES. R.O.W.

PRES. R.O.W. FISK ROAD

MATCH LINE STA. 578+50 SEE SHT. NO. 9

MATCH LINE STA. 591+50 SEE SHT. NO. 11

S 6° 02′ 00″ W

N 6° 02′ 00″ E

TS 589+63.94

SS 584+05.91

ST 587+85.91

1-SBR RES

1-SBL BUS

1-SM BUS

1-SF RES

1-SF-BK BUS

DECK

TRAILER

SHED

RUIN

GRAVEL

ASPHALT

CURB

CANOPY

CONC. DITCH

POND

TRAIL

FENCE

CUT SLOPE

PROP. ROW

EXISTING PIPE TO BE REMOVED

8"WATER LINE FROM WATER TANK

72 JAGADISH R. AND WIFE JYOTSANABEN J. PATEL

66 WAYNE BROWN AND WIFE WINNIE BROWN

65 CARL HAYES

64 ROBERT BOYKIN

CEM

SR-52 STA. 585+54.02 =
FISK RD. STA. 91+72.78
N 762223.9052
E 2165230.0556

AREA TO BE SCARIFIED SEEDED AND SODDED

CONSTRUCTION EASEMENT

LEGEND	WETLAND IMPACTS (WTL-11A)
	AREA OF PERMANENT IMPACT = 0.01 AC
	VOLUME OF PERMANENT IMPACT = 15 C.Y.

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
OWNER
NO. 106425
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50′

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	10A
CONST.	2014	APD/NH-52(48)	10A

REV. 12-07-12: ADJUSTED ROW TRACT 62

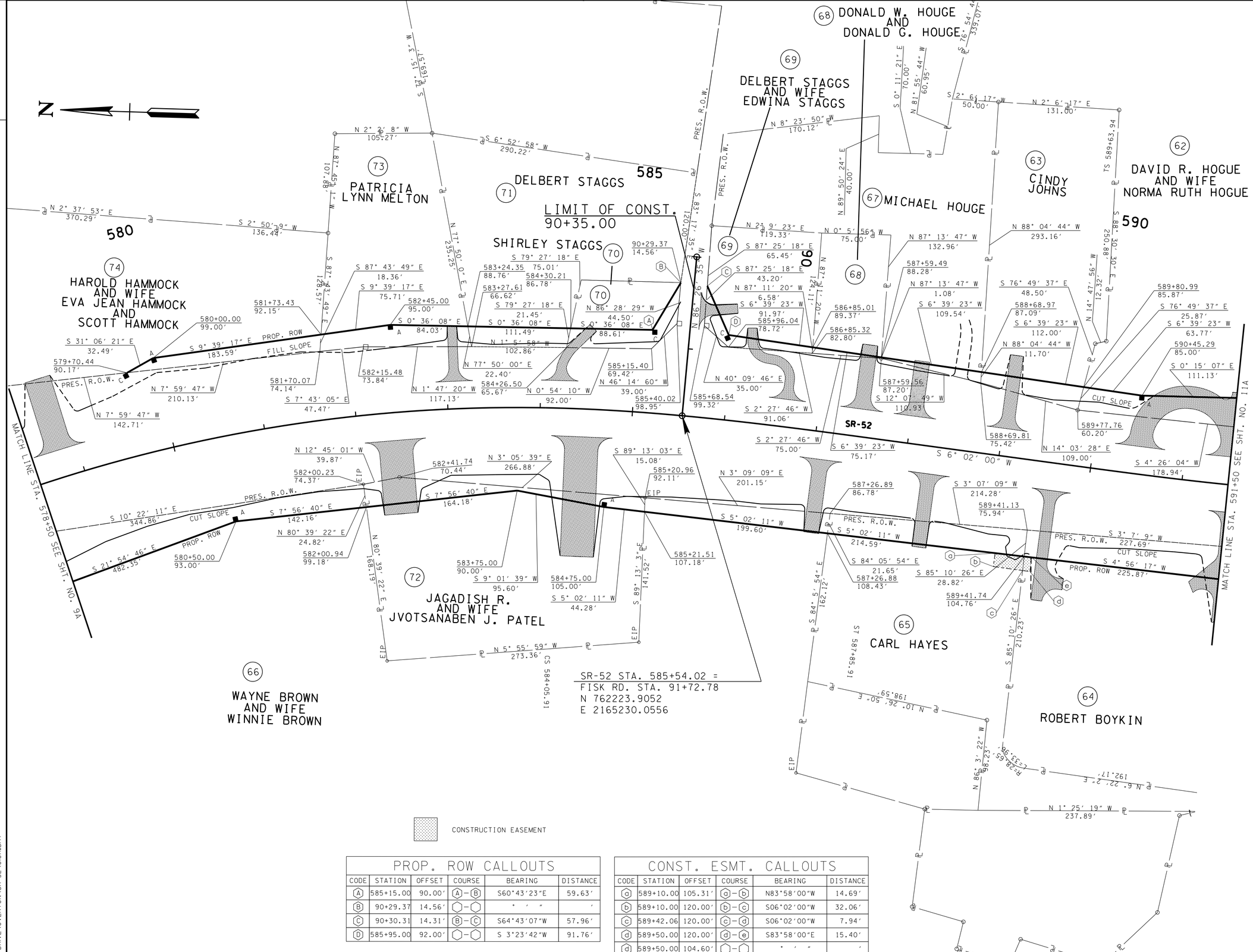
REV. 10-04-13: ADJUSTED PROPERTY OWNER TRACTS 64 & 66

REV. 01-17-14: CORRECTED PROPERTY OWNER NAME TRACTS 69 & 71

REV. 04-07-14: REMOVED PVT. DRIVE STA 588+47. ADDED PVT. DRIVE STA. 588+04.

REV. 08-20-14: CHANGED PROPERTY OWNER NAME ON TR. NO. 64.

REV. 02-27-15: CHANGED PROPERTY OWNER NAME ON TR. NO. 63.



CONSTRUCTION EASEMENT

PROP. ROW CALLOUTS					
CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
A	585+15.00	90.00'	A–B	S60°43'23"E	59.63'
B	90+29.37	14.56'	⬡–⬡	° ' "	'
C	90+30.31	14.31'	B–C	S64°43'07"W	57.96'
D	585+95.00	92.00'	⬡–⬡	S 3°23'42"W	91.76'

CONST. ESMT. CALLOUTS					
CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
a	589+10.00	105.31'	a–b	N83°58'00"W	14.69'
b	589+10.00	120.00'	b–c	S06°02'00"W	32.06'
c	589+42.06	120.00'	c–d	S06°02'00"W	7.94'
d	589+50.00	120.00'	d–e	S83°58'00"E	15.40'
d	589+50.00	104.60'	⬡–⬡	° ' "	'

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
DEPARTMENT OF AGRICULTURE
OF
COMMERCE
NO. 108423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	10B
CONST.	2014	APD/NH-52(48)	10B

REV. 04-07-2014; ADDED LABEL ON WWC-5.
REMOVED PVT. DRIVE STA. 588+47.
ADDED PVT. DRIVE STA. 588+04.

N

SR-52
PI 580+32.56
N 762,798.8851
E 2,165,294.1851
Δs 41° 25′ 51″ (RT)
θs 6° 39′ 00″
Δc 28° 07′ 51″ (RT)
Dc 3° 30′ 00″
Rc 1,637.02
Lc 803.74
Ts 810.39
Ls 380.00
SE 0.074 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 380′

580 585 590

POND

LIMIT OF CONST. 90+35.00

FISK ROAD

STA. 578+80.55 28′ BUS. ENT. 45′ OF 18″ S.D. REQD.
LIMIT OF CONST. 1+10.00
END DIT STA. 579+40.00 OFFSET -60.00′
15′ RADIUS BOTH SIDES
MATCH LINE STA. 578+50 SEE SHT. NO. 9B

STA. 582+40.40 36′ BUS. ENT. 55′ OF 24″ S.D. REQD.
LIMIT OF CONST. 1+10.00
15′ RADIUS BOTH SIDES
BEGIN DIT STA. 582+70.00 OFFSET 60.00′
END DIT STA. 584+15.00 OFFSET 60.00′
STA. 583+08.03 10′ PVT. DR. 22′ OF 18″ S.D. REQD.
LIMIT OF CONST. 0+90.00
LIMIT OF CONST. 1+00.00
STA. 584+20.29 10′ PVT. DR. 28′ OF 18″ S.D. REQD.
BEGIN DIT STA. 90+60.00 OFFSET 13.00′
END DIT STA. 91+05.00 OFFSET 30.00′
INV. 1408.70
18″ RCP
50′ R
60′
STA. 584+46.26 38′ BUS. ENT. 60′ OF 24″ S.D. REQD.
LIMIT OF CONST. 1+60.00
℄ S 84°-05.91

15′ RADIUS BOTH SIDES
90+35.00 8.75′
N 86° 25′ 32″ W
GRAVEL
A
B
23 EW
24 EW
INV. 1406.58
CLASS B RIPRAP APRON 4.5′Wx9′Wx8′Lx2.5′D
POT 91+72.78
SR-52
S 6° 02′ 00″ W

15′ RADIUS BOTH SIDES
LIMIT OF CONST. 0+50.00
STA. 90+59.46 10′ PVT. DR.
POT 90+00.00
STA. 586+65.00 10′ PVT. DR. 60′ OF 24″ S.D. REQD.
LIMIT OF CONST. 1+30.00
STA. 587+45.84 16′ BUS. ENT. 30′ OF 24″ S.D. REQD.
LIMIT OF CONST. 1+00.00
STA. 588+04.00 16′ PVT. DR. 25′ OF 24″ S.D. REQD.
LIMIT OF CONST. 0+90.00
STA. 589+04.68 14′ PVT. DR. 30′ OF 24″ S.D. REQD.
LIMIT OF CONST. 1+10.00
BEGIN DIT STA. 589+20.00 OFFSET -62.00′
TS 589+63.94
LIMIT OF CONST. 1+15.00
STA. 590+50.13 24′ BUS. ENT. 40′ OF 24″ S.D. REQD.
LIMIT OF CONST. 1+00.00
STA. 591+51.30 10′ PVT. DR. 35′ OF 24″ S.D. REQD.
36′ INSIDE RADIUS
MATCH LINE STA. 591+50 SEE SHT. NO. 11B

15′ R
15′ R
GRAVEL
GRAVEL
GRAVEL
GRAVEL
15′ RADIUS BOTH SIDES
15′ RADIUS BOTH SIDES
15′ RADIUS BOTH SIDES
15′ RADIUS BOTH SIDES
15′ RADIUS BOTH SIDES
RELOCATED WWC-5
15′ RADIUS
13′ RADIUS
WWC-5
BEGIN DIT STA. 588+50.00 OFFSET
BEGIN IND DIT STA. 589+23.00 OFFSET 107.00′
END IND DIT STA. 589+50.00 OFFSET 80.00′
LIMIT OF CONST. 1+10.00
LIMIT OF CONST. 1+10.00
LIMIT OF CONST. 1+50.00
LIMIT OF CONST. 1+50.00
STA. 587+09.15 16′ FLD. ENT. 30′ OF 24″ S.D. REQD.
ST 587+85.91
STA. 588+27.28 15′ PVT. DR. 25′ OF 24″ S.D. REQD.
STA. 589+61.04 12′ BUS. ENT. 26′ OF 30″ S.D. REQD.
STA. 591+51.98 10′ BUS. ENT. 26′ OF 30″ S.D. REQD.

SR-52 STA. 585+54.02 =
FISK RD. STA. 91+72.78
N 762223.9052
E 2165230.0556

SPECIAL DITCH CODES

CODE	LABEL	STATION	OFFSET
(A)	BEG DIT	90+70.00	-13.00′
(B)	END DIT	91+05.00	-35.00′

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	10C
CONST.	2014	APD/NH-52(48)	10C

FULL SUPER
FULL SUPER
584+05.91 RT.-0.074
584+05.91 LT. 0.074
TRANSITION
TRANSITION
586+24.21 RT.-0.020
NORMAL CROWN
NORMAL CROWN
587+85.91 LT.-0.020
589+63.94 RT.-0.020
TRANSITION
591+23.53 LT.-0.020 TRANSITION

OH WIRE
STA. 583+14.86
LOW WIRE EL.1440.77'
TEMP. 65 DEG.
4 POWER
2 TELEPHONE

VPT 582+86.68
EL. 1417.61

OH WIRE
STA. 586+87.25
LOW WIRE EL.1431.31'
TEMP. 65 DEG.
1 TELEPHONE

OH WIRE
STA. 587+04.00
LOW WIRE EL.1425.07'
TEMP. 65 DEG.
2 POWER
1 TELEPHONE

EXISTING GROUNDLINE
AT PROPOSED ℄

STA. 585+54.02 SR 52
STA 91+72.78 FISK RD.

-2.50%
-2.50%
-2.48%
-2.50%
-4.20%
-5.82%
-2.18%
-2.18%

8" W
10" W
ABANDONED 10" W
ABANDONED

END DIT LT
STA. 579+40.00
EL. 1421.22

BEG DIT RT
STA. 582+70.00
EL. 1410.92

END DIT RT
STA. 584+15.00
EL. 1407.39

BEG DIT RT
STA. 588+50.00
EL. 1398.45

BEG DIT LT
STA. 589+20.00
EL. 1396.36

VPI LT 589+50.00
EL. 1395.10

VPI RT 589+50.00
EL. 1392.63

VPI LT 591+23.53
EL. 1391.33

VPI RT 591+23.53
EL. 1388.84

VPI LT 591+35.00
EL. 1391.08

1455 1450 1445 1440 1435 1430 1425 1420 1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365 1360

578+50 579+00 579+50 580+00 580+50 581+00 581+50 582+00 582+50 583+00 583+50 584+00 584+50 585+00 585+50 586+00 586+50 587+00 587+50 588+00 588+50 589+00 589+50 590+00 590+50 591+00 591+50

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 578+50 TO STA. 591+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	11
CONST.	2014	APD/NH-52(48)	11

REV. 12-07-12: ADJUSTED SLOPE LINES FOR PVT. DRS. STA. 594+41.02 & 595+25.00, MOVED PVT. DR. STA. 592+60.00 AND ADJUSTED ROW & CONST. ESMT. FOR STR-5 RELOCATION

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW TRACT 56

REV. 09-18-13: ADDED CONST. ESMT. TRACT 304

REV. 10-04-13: RELOCATED TRAILER TRACT 61 AND ADJUSTED PROPERTY OWNER TRACTS 57, 61 & 66

REV. 01-17-14: ADJUSTED PVT. DR. TRACT 304

AREA TO BE SCARIFIED SEEDED AND SODDED

CONSTRUCTION EASEMENT

LIMIT OF CONST. 21+50.00

59 RONALD S. SAVAGE AND WIFE LOANNE T. SAVAGE 595

62

61 BEVERLY L. DISHMAN

61

OLD ALLONS RD. STA. 101+32.57 = SAVAGE LN. STA. 23+37.20
N 761001.6483
E 2165440.0812

MISSIONARY BAPTIST CHURCH

60

306 JANIE PERKINS

305 KATHY SAMUELSON

304 JANIE PERKINS

600

52 DAVID WALKER, VICKY WATSON AND CINDY CRAVENS

56 ROBERT MAXFIELD AND WIFE MARY JANE MAXFIELD

LIMIT OF CONST. 100+50.00
LIMIT OF WORK 100+35.00

57 JANIE PERKINS AND PAT BATES

SR-52
PI 597+00.80
N 761,083.1607
E 2,165,112.8479
Δs 45° 45′ 52″ (LT)
θs 8° 53′ 15″
Δc 27° 59′ 22″ (LT)
Dc 4° 30′ 00″
Rc 1,273.24
Lc 621.99
Ts 736.87
Ls 395.00
SE 0.079 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 399′

OLD ALLONS ROAD
PI 103+02.62
N 761,134.7769
E 2,165,335.2081
Δ 72° 17′ 50″ (LT)
D 52° 00′ 00″
R 110.18
L 139.03
T 80.49
SE 0.080 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 131′

OLD ALLONS ROAD
PI 101+60.49
N 761,018.2949
E 2,165,417.6679
Δ 17° 48′ 58″ (RT)
D 25° 00′ 00″
R 229.18
L 71.26
T 35.92
SE 0.063 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 131′

SR-52 STA. 596+86.45 = OLD ALLONS RD. STA. 103+94.06
N 761100.5066
E 2165227.1253

LIMIT OF CONST. 111+50.00

66 WAYNE BROWN AND WIFE WINNIE BROWN

SR-52 STA. 599+08.30 = ELMER LANGFORD RD. STA. 110+00.00
N 760895.9318
E 2165312.2147

55 JIMMY COLEMAN AND WIFE WANDA COLEMAN

54

ELMER LANGFORD ROAD
PI 110+92.63
N 760,853.0524
E 2,165,230.1087
Δ 12° 30′ 40″ (RT)
D 10° 00′ 00″
R 572.96
L 125.11
T 62.81
SE 0.050 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 70′

LEGEND	WETLAND IMPACTS (WTL-11)
	AREA OF PERMANENT IMPACT = 0.12 AC
	VOLUME OF PERMANENT IMPACT = 202 C.Y.
	AREA OF TEMPORARY IMPACT = 0.33 AC
	VOLUME OF TEMPORARY IMPACT = 535 C.Y.

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S520	760843.2578	2165272.4555	1372.7000	XCP	GPS67-52-520	599+35.32	59.9265(RT)
S521	761389.9647	2165134.1920	1390.7700	XCP	GPS67-52-521	593+88.28	36.8602(RT)

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI AGRICULTURE 1 COMMERCE
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	11A
CONST.	2014	APD/NH-52(48)	11A

REV. 12-07-12: ADJUSTED SLOPE LINES FOR PVT. DRS. STA. 594+41.02 & 595+25.00, MOVED PVT. DR. STA. 592+60.00 AND ADJUSTED ROW & CONST. ESMT. FOR STR-5 RELOCATION

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW TRACT 56

REV. 09-18-13: ADDED CONST. ESMT. TRACT 304

REV. 10-04-13: ADJUSTED PROPERTY OWNER TRACTS 57, 61 & 66

REV. 01-17-14: ADJUSTED PVT. DR. TRACT 304

EXIST. ROW CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
A	102+68.66	27.39'	A – B	S37°50'43"E	51.74'
B	102+26.18	17.69'	B – C	S43°45'46"E	75.02'
C	101+47.21	24.05'	C – D	S59°57'25"W	173.93'
D	21+45.01	19.80'	–	° ' "	'
E	21+45.08	2.41 '	E – F	N60°15'55"E	58.28'
F	22+03.35	1.73 '	F – G	N56°15'48"E	107.87'
G	101+15.09	21.18'	G – H	S53°33'46"E	70.05'
H	100+44.93	21.66'	–	° ' "	'

PROP. ROW CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
A	102+53.69	63.22'	A – B	S56°50'21"E	13.86'
B	102+45.00	65.00'	B – C	S28°56'34"E	86.96'
C	101+65.00	50.00'	C – D	N65°59'34"E	98.30'
D	22+00.00	31.00'	⬡ – ⬡	° ' "	'
E	21+45.08	2.41 '	E – F	S30°44'23"E	13.59'
F	21+45.00	16.00'	F – G	S43°22'38"W	53.81'
G	21+96.66	31.03'	G – H	S43°22'38"W	3.47'
H	22+00.00	32.00'	H – I	S60°44'35"W	50.01'
I	22+50.00	31.00'	I – J	S36°18'21"W	30.61'
J	100+70.00	38.00'	J – K	S20°00'40"E	29.93'
K	100+44.93	21.66'	⬡ – ⬡	° ' "	'

PROP. ROW CALLOUTS CONT.

L	592+80.00	100.00'	L – M	S89°39'25"E	59.83'
M	592+80.00	159.83'	M – N	S02°47'51"E	53.39'
N	593+40.00	161.69'	N – O	S87°58'39"W	61.69'
O	593+40.00	100.00'	⬡ – ⬡	° ' "	'

CONST. ESMT. CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
a	592+65.00	99.79'	a – b	S89°07'47"E	59.24'
b	592+65.00	159.03'	b – c	S02°47'51"E	13.56'
c	592+80.00	159.83'	⬡ – ⬡	° ' "	'

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S520	760843.2578	2165272.4555	1372.7000	XCP	GPS67-52-520	599+35.32	59.9265(RT)
S521	761389.9647	2165134.1920	1390.7700	XCP	GPS67-52-521	593+88.28	36.8602(RT)

CONSTRUCTION EASEMENT

LIMIT OF CONST. 21+50.00

LIMIT OF CONST. 100+50.00
LIMIT OF WORK 100+35.00

LIMIT OF CONST. 111+50.00

59 RONALD S. SAVAGE AND WIFE LOANNE T. SAVAGE 595

OLD ALLONS RD. STA. 101+32.57 = SAVAGE LN. STA. 23+37.20
N 761001.6483
E 2165440.0812

SR-52 STA. 596+86.45 = OLD ALLONS RD. STA. 103+94.06
N 761100.5066
E 2165227.1253

SR-52 STA. 599+08.30 = ELMER LANGFORD RD. STA. 110+00.00
N 760895.9318
E 2165312.2147

52 DAVID WALKER, VICKY WATSON AND CINDY CRAVENS

306 JANIE PERKINS

305 KATHY SAMUELSON

304 JANIE PERKINS

56 ROBERT MAXFIELD AND WIFE MARY JANE MAXFIELD

61 BEVERLY L. DISHMAN

60 MISSIONARY BAPTIST CHURCH

57 JANIE PERKINS AND PAT BATES

66 WAYNE BROWN AND WIFE WINNIE BROWN

55 JIMMY COLEMAN AND WIFE WANDA COLEMAN

54

62

SR-52

CP-S521

CP-S520

MATCH LINE STA. 591+50 SEE SHT. NO. 10A

MATCH LINE STA. 604+50 SEE SHT. NO. 12A

PRES. R.O.W.

PROP. ROW

CUT SLOPE

FILL SLOPE

EIP

PRES. R.O.W. STA. 603+15.93

CS 599+80.93

SC 593+58.94

ST 603+15.93

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
DOMERS
NO. 108425
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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DESIGN DIVISION
FILE NO.

NOTES:

SEE SHEETS 28-28J FOR STREAM RELOCATION AND TEMP. WETLAND IMPACT DETAILS

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO PROTECT NON-IMPACTED PORTIONS OF WETLANDS AND STREAMS FROM DISTURBANCES

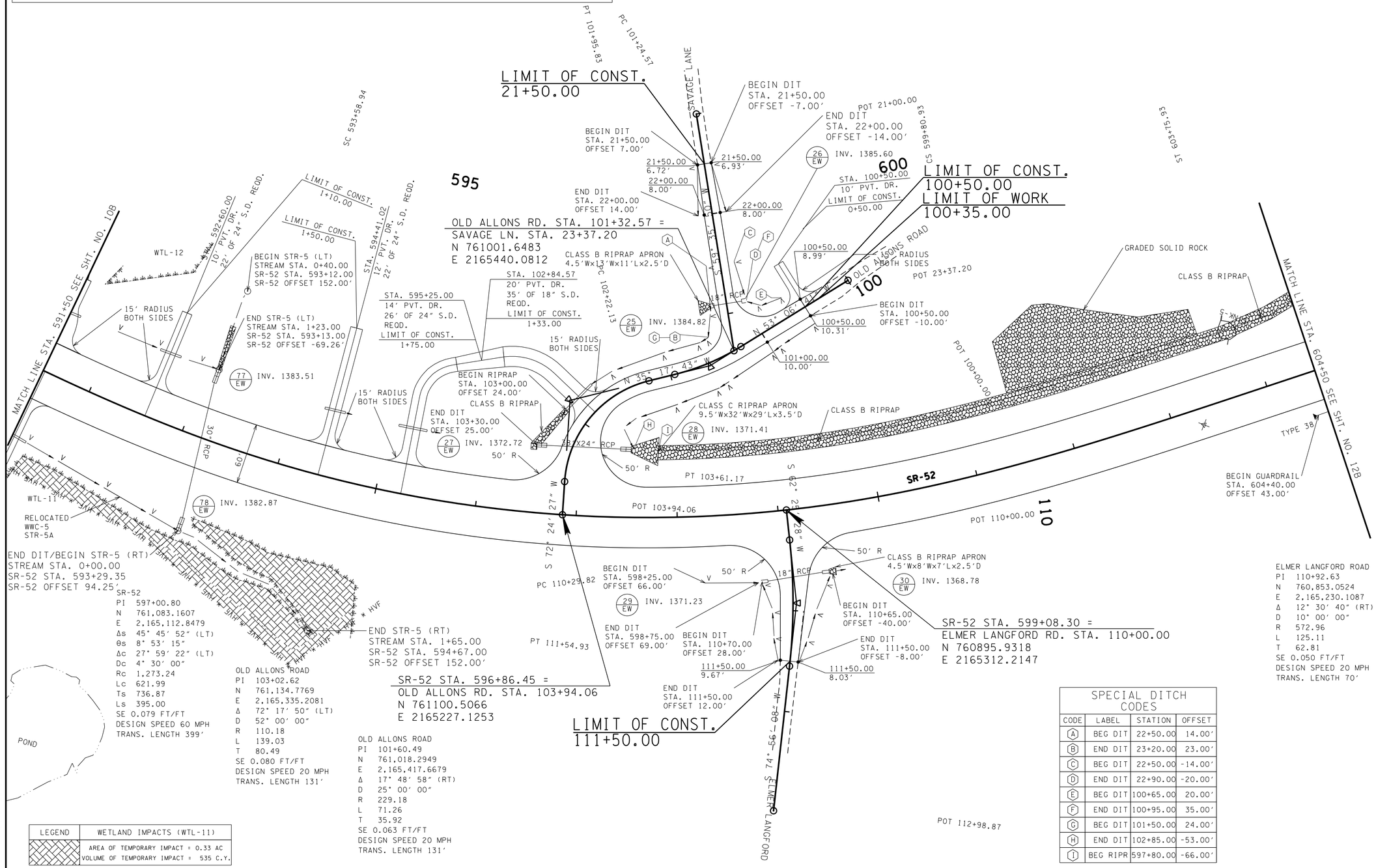
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	11B
CONST.	2014	APD/NH-52(48)	11B

REV. 12-07-12: MOVED PVT. DR. LT. STA. 592+60.00

REV. 07-15-13: ADDED ROCK SLOPE PER GEOTECH REPORT

REV. 01-17-14: ADJUSTED PVT. DR. TRACT 304

REV. 04-07-14: ADJUSTED PROP. RIPRAP ON PROP. CROSS DRAIN STA. 593+20.



LEGEND	WETLAND IMPACTS (WTL-11)
	AREA OF TEMPORARY IMPACT = 0.33 AC
	VOLUME OF TEMPORARY IMPACT = 535 C.Y.

SPECIAL DITCH CODES			
CODE	LABEL	STATION	OFFSET
A	BEG DIT	22+50.00	14.00'
B	END DIT	23+20.00	23.00'
C	BEG DIT	22+50.00	-14.00'
D	END DIT	22+90.00	-20.00'
E	BEG DIT	100+65.00	20.00'
F	END DIT	100+95.00	35.00'
G	BEG DIT	101+50.00	24.00'
H	END DIT	102+85.00	-53.00'
I	BEG RIPR	597+80.00	-66.00'

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AGRICULTURE
COMMERCE
NO. 106471
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	11C
CONST.	2014	APD/NH-52(48)	11C

TRANSITION
TRANSITION
593+58.34 RT. 0.079
593+58.34 LT.-0.079
FULL SUPER
FULL SUPER
599+80.93 RT. 0.079
599+80.93 LT.-0.079
TRANSITION
TRANSITION
602+16.33 LT.-0.020
NORMAL CROWN
603+75.93 RT.-0.020
N.C.

OH WIRE
STA. 591+65.84
LOW WIRE EL.1416.59'
TEMP. 65 DEG.
2 POWER
2 TELEPHONE

STA. 596+86.45 SR 52
STA 103+94.06 OLD ALLONS RD.

OH WIRE
STA. 598+28.27
LOW WIRE EL.1404.60'
TEMP. 65 DEG.
2 POWER
1 TELEPHONE
1 CABLE

LT 77 EW
RT 78 EW

VPC 594+50.92
EL. 1388.51

VPI 596+95.92
EL. 1382.38

VPT 599+40.92
EL. 1370.26

XCP S552 (GPS 67-52-521)
STA. 593+88.28, 36.86'(RT)
N 761389.9647
E 2165134.1920
ELEV 1390.77
ALUM. DISK

XCP-S520 (GPS 67-52-520)
STA. 599+35.32, 59.93'(RT)
N 760843.2578
E 2165272.4555
ELEV 1372.70
ALUM. DISK

TO BE REMOVED

10" W
8" W
-2.90%
-4.13%
-2.50%
-4.95%
-5.82%
-4.83%
10" W ABANDONED
10" W ABANDONED

STA 592+92.09
EXISTING 18"CMP
SKEW 89° 46' 50" LT
FLOWS RIGHT
INLET 1386.8380
OUTLET 1386.0060

EXISTING GROUNDLINE
AT PROPOSED ℄

END DIT RT
STA. 593+29.35
EL. 1382.87

END DIT LT
STA. 593+12.89
EL. 1383.51

BEG DIT RT
STA. 595+15.00
EL. 1379.49

END DIT RT
STA. 596+55.22
EL. 1372.72

BEG DIT RT
STA. 598+25.00
EL. 1374.14

END DIT RT
STA. 598+75.00
EL. 1371.23

STA. 593+20.00
127' OF 30" RCP WITH ENDWALLS
SKEW 83°0'0"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-3B(1)&(2), D-PE-4B(1)&(2)

D.A. = 9.14 AC.
Q50 = 20.75 CFS
Q100 = 22.61 CFS
W.S. ELEV. (50) = 1385.89
W.S. ELEV. (100) = 1386.04

VC = 490.00'
K = 200
V = 60+ MPH

STA. 599+08.30 SR 52
STA 110+00.00 ELMER LANGFORD RD.

1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365 1360 1355 1350 1345 1340 1335 1330 1325 1320

591+50 592+00 592+50 593+00 593+50 594+00 594+50 595+00 595+50 596+00 596+50 597+00 597+50 598+00 598+50 599+00 599+50 600+00 600+50 601+00 601+50 602+00 602+50 603+00 603+50 604+00 604+50

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 591+50 TO STA. 604+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	12
CONST.	2014	APD/NH-52(48)	12

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW TRACTS 48 & 49, LINED THROUGH TRACT 50 AND ADJUSTED PVT. DR. STA. 617+16.90

REV. 01-17-14: ADDED LOSS OF ACCESS TRACTS 48 & 49

REV. 04-07-14: ADDED SINKHOLE TREATMENT NOTE.

SR-52
PI 612+85.59
N 759,816.8919
E 2,166,165.2922
Δs 29° 09' 13" (RT)
θs 4° 28' 08"
Δc 20° 12' 58" (RT)
Dc 2° 45' 00"
Rc 2,083.48
Lc 735.14
Ts 704.82
Ls 325.00
SE 0.065 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 342'

OLD ALLONS ROAD
PI 121+47.93
N 760,261.1636
E 2,165,947.9691
Δ 20° 01' 14" (LT)
D 15° 00' 00"
R 381.97
L 133.47
T 67.42
SE 0.049 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 88'

52 DAVID WALKER, VICKY WATSON AND CINDY CRAVENS

51 MARK JACKSON

LIMIT OF CONST. 120+50.00

610

615

605

56

53 MICHAEL CHARLES KERNELL

54 TED A. GARRETT, SR. AND WIFE SHELIA D. GARRETT

48 CLYDE HOLMAN AND WIFE VELMA HOLMAN

49 LARRY B. GARRETT AND WIFE WILLA DEAN GARRETT AND CHRISTOPHER BRUCE GARRETT

50 NELL DEAN HAMMOCK

47 EARLINE RUSH

44 JANICE L. HAM

58 JACK M. ROE

SR-52

OLD ALLONS ROAD

HOLMAN DRIVE

PRES. R.O.W.

PROP. ROW

CONST.ESMT.

LOSS OF ACCESS

EXISTING PIPE TO BE REPLACED

EXISTING PIPE TO BE CAPPED AND FILLED

POT 120+00.00

PC 120+80.51

PT 122+13.98

POT 122+66.10

CP-S518

CP-S519

CUT SLOPE

FILL SLOPE

CONC. DITCH

GRAVEL

GROUND OBSCURED

S 52° 20' 12" W

S 52° 18' 58" W

S 39° 43' 53" E

INV-1308.81

INV-1306.19

INV-1289.05

INV-1276.96

SINK-1

SINK-4

1-SF RES

TRAILER

BARN

GARAGE

DECK

RUIN

SHED

TRAIL

GRAVEL

MATCH LINE STA. 604+50 SEE SHT. NO. 11

MATCH LINE STA. 617+50 SEE SHT. NO. 13

SR-52 STA. 608+00.77 =
OLD ALLONS RD. STA. 122+66.10
N 760188.0900
E 2165853.3676

NOTE:
FOR SINKHOLE TREATMENT
SEE SOILS SHEETS.

TS 605+80.77

SC 609+05.77

CS 616+40.90

AREA TO BE SCARIFIED SEEDED AND SODDED

CONSTRUCTION EASEMENT

N

CONTROL POINTS							
Point	North	East	Elevation	Feature	Description	Station	Offset
S518	759816.6129	2166135.9272	1305.8400	XCP	GPS67-52-518	612+61.36	44.8146(LT)
S519	760264.8797	2165862.4419	1331.2600	XCP	GPS67-52-519	607+46.39	54.5703(LT)

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KATHERINE J. LLOYD
REGISTERED ENGINEER
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AGRICULTURE
PALMER
NO. 108423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	12A
CONST.	2014	APD/NH-52(48)	12A

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW TRACTS 48 & 49, LINED THROUGH TRACT 50 AND ADJUSTED PVT. DR. STA. 617+16.90

REV. 01-17-14: ADDED LOSS OF ACCESS TRACTS 48 & 49

51
MARK JACKSON

52
DAVID WALKER,
VICKY WATSON
AND
CINDY CRAVENS

LIMIT OF CONST.
120+50.00

610

615

PRES. R.O.W.

120

605
56
53
MICHAEL CHARLES KERNELL

N 28° 56' 39" W
97.99'
S 13° 13' 5" E
98.37'
N 53° 8' 21" E
95.28'
N 73° 15' 12" E
194.65'
EIP
N 44° 36' 20" W
256.45'
PRES. ROW
604+50.26
180.74'
604+98.57
157.71'

610+95.87
185.30'
N 62° 28' 54" E
40.44'
610+94.21
144.90'
S 27° 32' 15" E
30.87'

613+42.88
148.97'
N 14° 28' 21" W
87.33'
S 27° 32' 15" E
127.20'
614+23.87
137.34'

NELL DEAN
HAMMOCK
50

N 64° 47' 50" E
80.15'
EIP
S 63° 49' 22" E
20.64'
614+50.00
150.00'
S 16° 38' 11" W
30.68'
614+73.07
131.70'

47
EARLINE RUSH

PRES. R.O.W.
CONST.ESMT.
N 14° 11' 35" W
392.16'

S 27° 32' 15" E
108.01'
CUT SLOPE
FILL SLOPE
CP-S518
614+35.95
135.84'

S 72° 20' 12" W
S 52° 18' 58" W
FILL SLOPE
CP-S519

SR-52

MATCH LINE STA. 604+50 SEE SHT. NO. 11A
S 39° 43' 53" E

609+49.48
91.48'
N 55° 46' 32" W
107.20'
S 84° 25' 43" W
48.94'
613+62.13
126.91'
N 19° 14' 22" W
44.18'
S 19° 14' 22" E
46.79'
613+12.48
123.51'
CUT SLOPE
N 19° 14' 22" W
180.18'
CP-S517
N 19° 14' 22" W
146.92'
MATCH LINE STA. 617+50 SEE SHT. NO. 13A

S 36° 54' 33" E
564.68'
PRES. R.O.W.
FILL SLOPE
S 37° 11' 24" E
474.17'
PROP. ROW

609+77.17
135.68'
611+46.67
171.03'
612+12.72
177.66'
S 59° 42' 24" E
18.60'
N 19° 14' 22" W
59.03'
N 19° 14' 22" W
431.32'
PROP. ROW

608+45.00
117.00'
S 53° 13' 21" W
18.00'
608+45.00
135.00'
S 36° 03' 22" E
56.58'
S 49° 50' 39" E
102.77'
609+05.11
135.00'
SC 609+05.77
609+49.48
91.48'
609+05.00
102.98'
N 54° 31' 56" E
32.02'
S 25° 41' 13" W
51.37'
S 18° 17' 22" E
149.64'
611+34.61
168.97'
N 18° 17' 22" W
11.26'
N 7° 17' 11" E
75.51'

S 21° 28' 42" E
207.28'
S 21° 28' 42" E
60.69'
614+09.15
129.08'
S 59° 42' 24" E
13.28'
613+46.39
173.62'
613+50.00
184.64'
S 84° 25' 43" W
108.83'
S 85° 6' 34" W
201.40'
614+72.08
130.44'
615+05.49
130.42'
S 8° 43' 41" E
140.81'
616+55.00
150.00'
S 50° 54' 06" E
49.04'
616+96.71
120.65'

TS 605+80.77
LOSS OF ACCESS
LOSS OF ACCESS
PRES. R.O.W.
N 0° 26' 83.24' W
S 44° 6" E
32.18'
SC 616+40.90

54
TED A. GARRETT, SR.
AND WIFE
SHELIA D. GARRETT

48
CLYDE HOLMAN
AND WIFE
VELMA HOLMAN

49
LARRY B. GARRETT
AND WIFE
WILLA DEAN GARRETT
AND
CHRISTOPHER BRUCE GARRETT

44
JANICE L. HAM

58
JACK M. ROE

SR-52 STA. 608+00.77 =
OLD ALLONS RD. STA. 122+66.10
N 760188.0900
E 2165853.3676

CONSTRUCTION EASEMENT

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S518	759816.6129	2166135.9272	1305.8400	XCP	GPS67-52-518	612+61.36	44.8146(LT)
S519	760264.8797	2165862.4419	1331.2600	XCP	GPS67-52-519	607+46.39	54.5703(LT)

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

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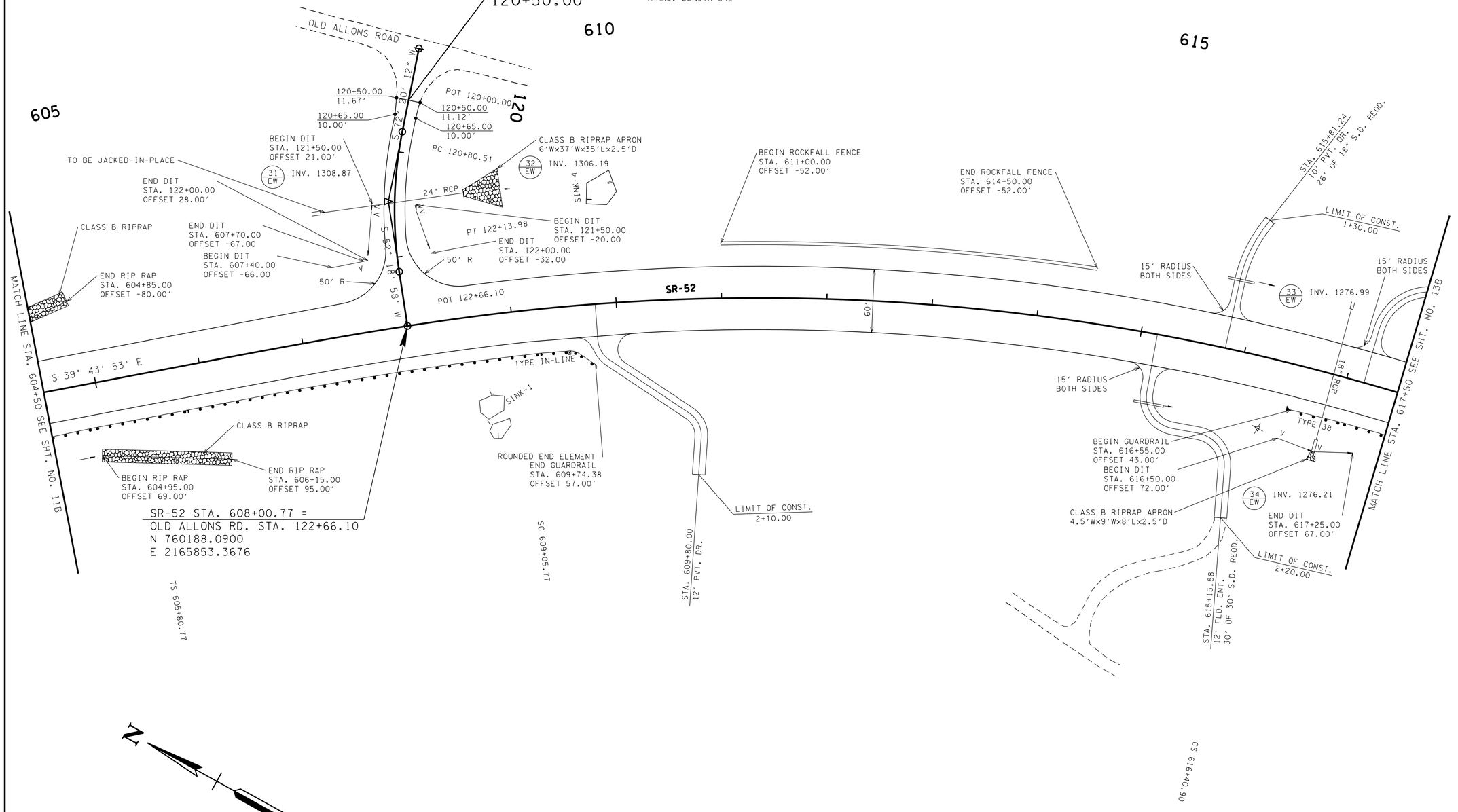
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	12B
CONST.	2014	APD/NH-52(48)	12B

REV. 07-15-13: ADDED ROCKFALL FENCE, ADJUSTED GUARDRAIL STA. 609+50.00 AND ADJUSTED PVT. DR. STA. 617+16.90

SR-52
PI 612+85.59
N 759,816.8919
E 2,166,165.2922
Δs 29° 09′ 13″ (RT)
θs 4° 28′ 08″
Δc 20° 12′ 58″ (RT)
Dc 2° 45′ 00″
Rc 2,083.48
Lc 735.14
Ts 704.82
Ls 325.00
SE 0.065 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 342′

OLD ALLONS ROAD
PI 121+47.93
N 760,261.1636
E 2,165,947.9691
Δ 20° 01′ 14″ (LT)
D 15° 00′ 00″
R 381.97
L 133.47
T 67.42
SE 0.049 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 88′



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STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50′

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	12C
CONST.	2014	APD/NH-52(48)	12C

REV. 07-15-13: REMOVED HOLMAN DR. INTERSECTION LABEL

NORMAL CROWN 605+80.77 LT.-0.020
NORMAL CROWN
TRANSITION 607+33.71 RT.-0.020
TRANSITION
609+05.77 LT. 0.065
609+05.77 RT.-0.065
FULL SUPER
FULL SUPER
616+40.90 LT. 0.065
616+40.90 RT.-0.065
TRANSITION
TRANSITION

OH WIRE
STA. 610+75.43
LOW WIRE EL.1356.14'
TEMP. 65 DEG.
2 POWER
1 TELEPHONE

EXISTING GROUNDLINE
AT PROPOSED ℄

XCP-S519 (GPS 67-52-519)
STA. 607+46.39, -54.57'(LT)
N 760364.8797
E 2169862.4419
ELEV 1331.26
ALUM. DISK

0.50%

BEG DIT LT
STA. 607+40.00
EL. 1325.29

END DIT LT
STA. 607+70.00
EL. 1325.44

STA. 608+00.77 SR 52
STA 122+66.10 OLD ALLONS RD.

XCP-S518 (GPS 67-52-518)
STA. 612+61.36, -44.81'(LT)
N 759816.6129
E 2166135.9272
ELEV 1305.84
ALUM. DISK

-4.95%

LT 33 EW
RT 34 EW

TO BE CAPPED
AND FILLED

STA. 616+87.15
129' OF 18" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-3B(1)&(2), D-PE-6B(1)&(2)

D.A. = 4.42 AC.
Q50 = 7.18 CFS
Q100 = 8.37 CFS
W.S. ELEV. (50) = 1278.66
W.S. ELEV. (100) = 1278.91

STA 617+41.19
EXISTING 24"CMP
SKEW 44° 39' 60" RT
FLOWS RIGHT
INLET 1276.9550
OUTLET 1262.5760

-5.81%
-0.55%

BEG DIT RT
STA. 616+50.00
EL. 1278.37

VPI RT 616+87.15
EL. 1276.21

END DIT RT
STA. 617+25.00
EL. 1276.00

8" W

1360 1355 1350 1345 1340 1335 1330 1325 1320 1315 1310 1305 1300 1295 1290 1285 1280 1275 1270 1265

604+50 605+00 605+50 606+00 606+50 607+00 607+50 608+00 608+50 609+00 609+50 610+00 610+50 611+00 611+50 612+00 612+50 613+00 613+50 614+00 614+50 615+00 615+50 616+00 616+50 617+00 617+50

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UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

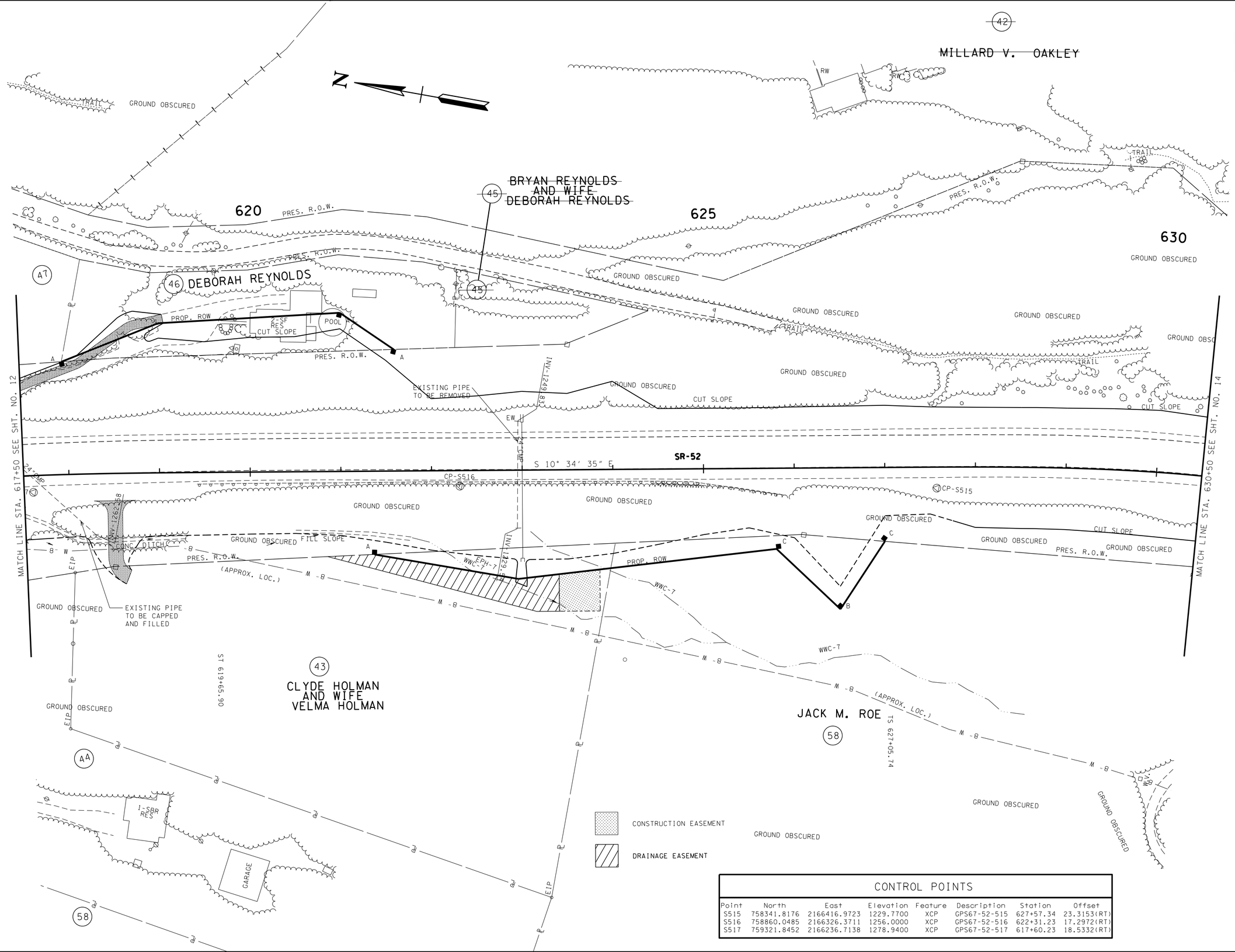
STA. 604+50 TO STA. 617+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	13
CONST.	2014	APD/NH-52(48)	13

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW TRACT 46, LINED THROUGH TRACT 45 AND ADJUSTED PVT. DR. STA. 617+16.90



CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S515	758341.8176	2166416.9723	1229.7700	XCP	GPS67-52-515	627+57.34	23.3153(RT)
S516	758860.0485	2166326.3711	1256.0000	XCP	GPS67-52-516	622+31.23	17.2972(RT)
S517	759321.8452	2166236.7138	1278.9400	XCP	GPS67-52-517	617+60.23	18.5332(RT)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	13A
CONST.	2014	APD/NH-52(48)	13A

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW TRACT 46, LINED THROUGH TRACT 45 AND ADJUSTED PVT. DR. STA. 617+16.90

N

42
MILLARD V. OAKLEY

620
PRES. R.O.W.

45
BRYAN REYNOLDS
AND WIFE
DEBORAH REYNOLDS

625

628+46.17
337.61'
N 7° 31' 54" W
168.93'
629+95.93
335.90'
S 32° 3' 24" E
353.20'
PRES. R.O.W.

630

N 81° 13' 54" E
86.38'
625+23.38
207.41'
PRES. R.O.W.
S 2° 03' 40" W
216.14'

47
46 DEBORAH REYNOLDS
S 89° 58' 32" W
114.56'
619+00.00
165.00'
PROP. ROW
N 13° 27' 07" E
200.78'
621+00.00
175.00'
S 23° 59' 58" W
72.13'
624+40.24
174.70'
617+95.17
124.46'
617+95.17
124.46'
S 31° 33' 01" E
114.62'
CUT SLOPE
621+59.39
134.07'
N 11° 55' 9" W
121.66'
S 32° 3' 24" E
98.87'
S 11° 55' 09" E
310.10'
PRES. R.O.W.
622+26.62
135.64'
623+48.24
138.49'
N 11° 55' 09" W
67.24
618+50.63
127.19'
N 14° 11' 35" W
56.99'
CUT SLOPE
CUT SLOPE

MATCH LINE STA. 617+50 SEE SHT. NO. 12A

S 10° 34' 35" E
SR-52

MATCH LINE STA. 630+50 SEE SHT. NO. 14A

CP-S516
623+40.00
115.11'
N 12° 49' 38" W
205.68'
CP-S515
N 5° 26' 29" W
92.15'
S 89° 58' 11" E
27.92'
624+02.10
82.01'
626+07.72
73.38'
N 12° 49' 38" W
266.01'
S 16° 47' 03" E
102.66'
FILL SLOPE
CUT SLOPE
N 5° 26' 29" W
381.03'
PRES. R.O.W.
PRES. R.O.W.
N 12° 49' 38" W
278.12'
A
S 0° 31' 48" E
141.07'
S 14° 51' 11" W
238.23'
PROP. ROW
S 16° 47' 03" E
184.02'
C
S 33° 10' 09" W
36.90'
S 66° 55' 30" E
89.55'
B
620+85.00
93.92'
621+36.40
91.90'
623+97.06
108.90'
625+80.00
89.00'
626+99.51
81.63'
623+85.00
110.21'
618+47.43
102.81'
N 79° 25' 25" E
45.79'
623+85.00
156.00'
622+95.00
120.00'
623+15.00
156.00'
S 10° 34' 35" E
45.00'
626+50.00
156.00'
N 19° 7' 5" W
42.67'
618+04.19
108.53'
EIP
S 81° 26' 16" W
93.89'
S 81° 37' 17" W
78.38'
ST 619+65.90
43
CLYDE HOLMAN
AND WIFE
VELMA HOLMAN
S 10° 34' 35" E
25.00'
623+40.00
156.00'
N 79° 25' 25" E
40.89'
S 89° 58' 11" E
369.14'
JACK M. ROE
58
TS 627+05.74
44
S 81° 25' 10" E
92.80'
N 9° 10' 42" E
562.21'
58
N 9° 21' 7" E
748.19'

CONSTRUCTION EASEMENT

DRAINAGE EASEMENT

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S515	758341.8176	2166416.9723	1229.7700	XCP	GPS67-52-515	627+57.34	23.3153(RT)
S516	758860.0485	2166326.3711	1256.0000	XCP	GPS67-52-516	622+31.23	17.2972(RT)
S517	759321.8452	2166236.7138	1278.9400	XCP	GPS67-52-517	617+60.23	18.5332(RT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OLMER
NO. 108433
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

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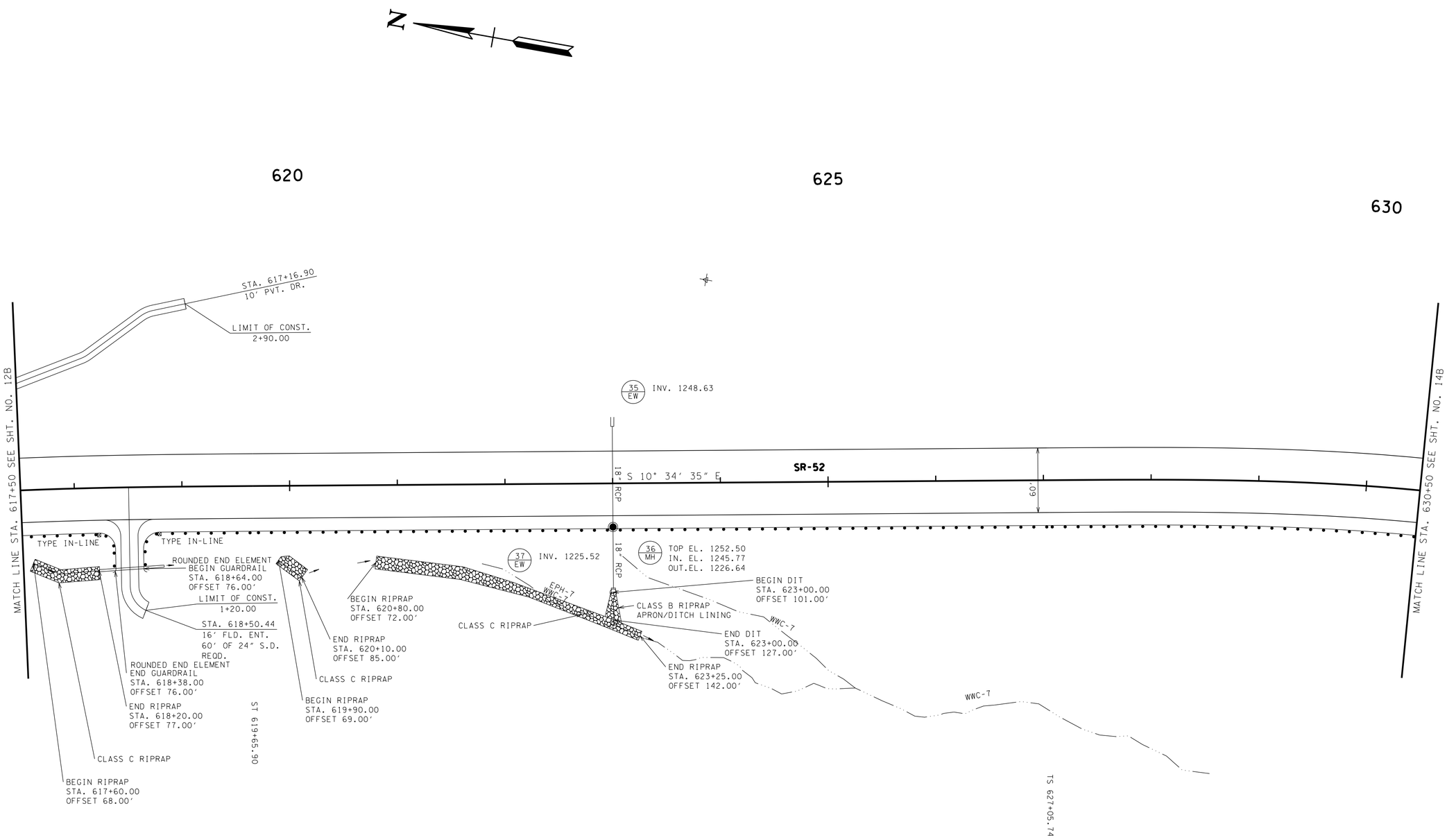
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	13B
CONST.	2014	APD/NH-52(48)	13B

REV. 07-15-13: ADJUSTED PVT. DR. STA. 617+16.90



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SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	13C
CONST.	2014	APD/NH-52(48)	13C

TRANSITION
TRANSITION
618+12.96
RT.-0.020
619+65.90
LT.-0.020
NORMAL CROWN
NORMAL CROWN
627+05.74
LT.-0.020
TRANSITION
628+66.97
RT.-0.020
TRANSITION

XCP-S517 (GPS 67-52-517)
STA. 617+60.23, 18.53'(RT)
N 759321.8452
E 2166236.7138
ELEV 1278.94
ALUM. DISK

EXISTING GROUNDLINE
AT PROPOSED ℄

W.B.

LT 35 EW
RT 36 MH
RT 37 EW

XCP-S516 (GPS 67-52-516)
STA. 622+31.23, 17.30'(RT)
N 758860.0485
E 2166326.3711
ELEV 1256.00
ALUM. DISK

TO BE REMOVED

STA. 623+00.00
146' OF 18" RCP WITH MANHOLE DROP AND ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-4B(1)&(2), D-MH-2, D-PE-4

D.A. = 3.27 AC.
Q50 = 7.16 CFS
Q100 = 7.87 CFS
W.S. ELEV. (50) = 1250.30
W.S. ELEV. (100) = 1250.43

STA 622+90.51
EXISTING 24CMP
SKEW 89° 23' 44" LT
FLOWS RIGHT
INLET 1249.8290
OUTLET 1229.5420

VPC 627+22.90
EL. 1232.55

VC = 415.00'
K = 153
V = 60 MPH

XCP-S515 (GPS 67-67-52-515)
STA. 627+57.34, 23.32'(RT)
N 758341.8176
E 2166416.9723
ELEV 1229.77
ALUM. DISK

-4.95%
-2.25%

VPI 629+30.40
EL. 1222.28

1295 1290 1285 1280 1275 1270 1265 1260 1255 1250 1245 1240 1235 1230 1225 1220 1215 1210 1205 1200

617+50 618+00 618+50 619+00 619+50 620+00 620+50 621+00 621+50 622+00 622+50 623+00 623+50 624+00 624+50 625+00 625+50 626+00 626+50 627+00 627+50 628+00 628+50 629+00 629+50 630+00 630+50

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
DEPARTMENT OF AGRICULTURE AND COMMERCE
NO. 106473
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	14
CONST.	2014	APD/NH-52(48)	14

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW TRACTS 38, 39 & 212, ADDED ROW TRACT 40 AND RE-ALIGNED FAIRVIEW LN.

REV. 01-17-14: MOVED CULVERT STA. 638+55.00

CONSTRUCTION EASEMENT

SR-52
PI 635+57.59
N 757,559.3980
E 2,166,586.8247
Δs 48° 58′ 31″ (RT)
θs 7° 54′ 00″
Δc 33° 10′ 31″ (RT)
Dc 4° 00′ 00″
Rc 1,432.39
Lc 829.38
Ts 851.85
Ls 395.00
SE 0.078 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 395′

W.G. QUARLES AND WIFE LINDA G. QUARLES (A1)
AUSTIN JONES 140 (40)
JOHNNY F. COLEMAN AND WIFE CAROL COLEMAN (39)
MICHAEL BROWN AND WIFE VICKIE BROWN (212)
OVERTON COUNTY RECREATION ASSOCIATION INC. (213)
MICHAEL BROWN AND WIFE VICKIE BROWN (36)
JACK M. ROE (58)
(A2)
(42)
(38)
(35)

635
640
145
150
155

PRES. R.O.W.
PROP. ROW
GROUND OBSCURED
TRAIL
FAIRVIEW LANE
S 18° 04′ 53″ W
S 14° 55′ 17″ W
POT 140+00.00
PC 141+21.99
PT 141+85.19
PT 145+50.03
LIMIT OF CONST. 142+50.00
SR-52 STA. 639+25.00 =
FAIRVIEW LN. STA. 147+31.84
N 757216.4583
E 2166290.9817
CUT SLOPE
FILL SLOPE
PC 142+74.17
INV-1174.66
SR-52
CP-S514
CP-S513
N 59° 42′ 22″ W
FARMERS MARKET
LIVINGSTON CITY LIMITS
48" CMP
PT 151+28.11
PC 150+34.27
EXISTING PIPE TO BE CAPPED AND FILLED
N 38° 38′ 32″ W
POT 147+31.84
ROE LANE
N 10° 08′ 39″ E
MILE MARKER 9
POT 150+00.00
CS 639+30.13
INV-1116.19
WWC-8
SR-52 STA. 641+23.96 =
ROE LN. STA. 150+00.00
N 757050.9256
E 2166180.7718
FAIRVIEW LANE
PI 141+53.60
N 757,332.1659
E 2,166,699.6187
Δ 3° 09′ 35″ (LT)
D 5° 00′ 00″
R 1,145.92
L 63.20
T 31.61
FAIRVIEW LANE
PI 144+70.97
N 757,025.4753
E 2,166,617.8914
Δ 105° 22′ 20″ (RT)
D 38° 11′ 50″
R 150.00
L 275.86
T 196.80
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000
ROE LANE
PI 150+84.24
N 757,116.7184
E 2,166,128.1551
Δ 48° 47′ 41″ (RT)
D 52° 00′ 00″
R 110.18
L 93.84
T 49.98
SE 0.000 FT/FT
DESIGN SPEED 15 MPH
TRANS. LENGTH 000
INV-1114.29
INV-1114.12
INV-1110.34
INV-1110.12
LIMIT OF WORK 153+70.00
SC 631+00.74
POT 155+00.00
PRES. R.O.W.
M-8
(APPROX. LOC.)
DEBRI
LIMIT OF CONST. 153+00.00
ST 643+25.13
MATCH LINE STA. 630+50 SEE SHT. NO. 13
MATCH LINE STA. 643+50 SEE SHT. NO. 15

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S513	757165.7304	2166327.3989	1201.2600	XCP	GPS67-52-513	639+49.47	57.2483(LT)
S514	757785.7315	2166531.1016	1214.7000	XCP	GPS67-52-514	633+15.78	52.4591(LT)

UNOFFICIAL SET
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SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109425
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50'

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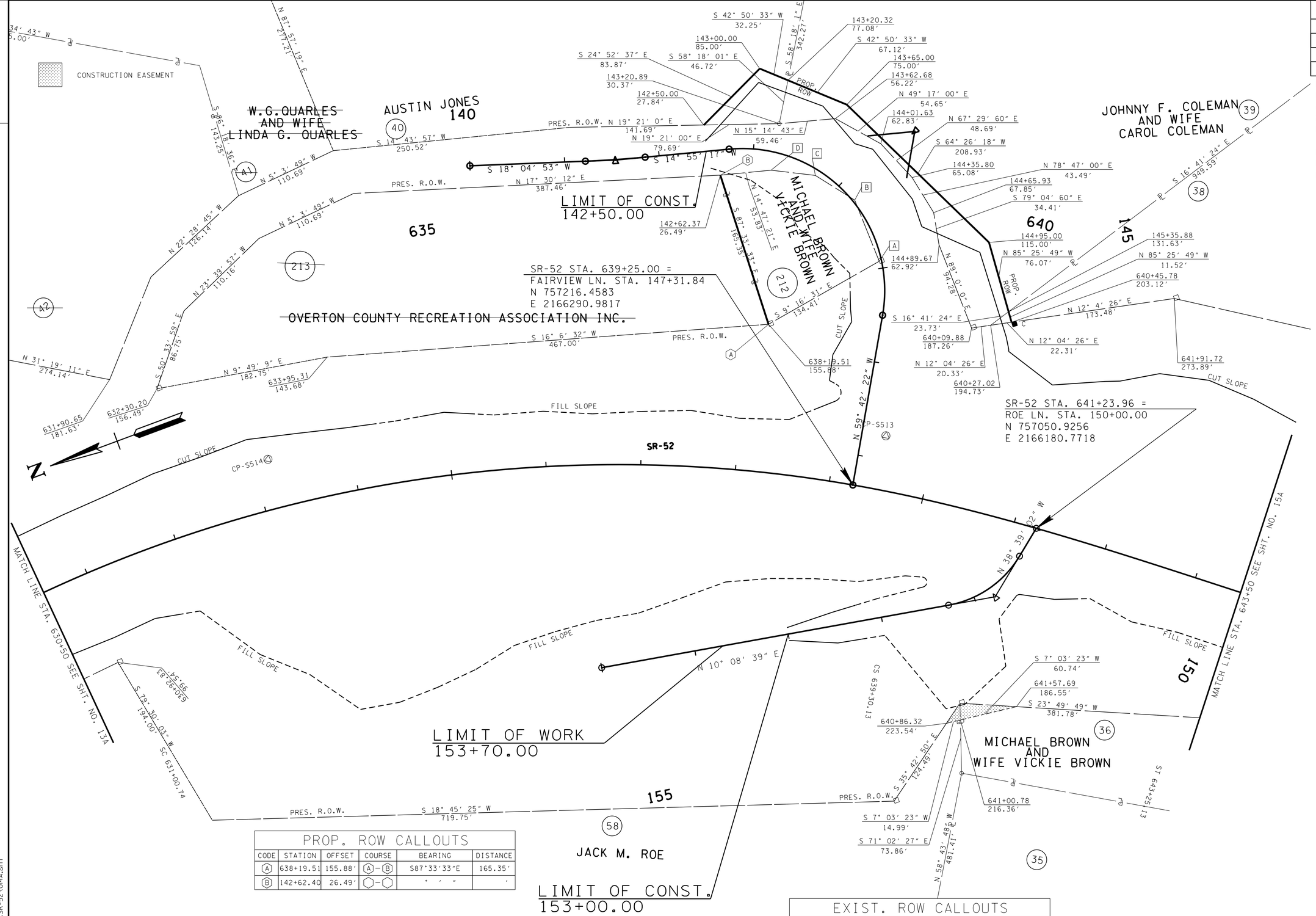
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	14A
CONST.	2014	APD/NH-52(48)	14A

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW TRACTS 38, 39 & 212, ADDED ROW TRACT 40 AND RE-ALIGNED FAIRVIEW LN.

REV. 01-17-14: CORRECTED EXIST. & PROP. ROW FLAGS & TABLES ON FAIRVIEW LN.



PROP. ROW CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
A	638+19.51	155.88'	A – B	S87°33'33"E	165.35'
B	142+62.40	26.49'	⬡ – ⬡	° ′ ″	′

EXIST. ROW CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
A	639+13.63	237.25'	A – B	N88°30'40"E	69.52'
B	144+22.20	2.09 '	B – C	N52°25'53"E	49.04'
C	143+72.96	6.22 '	C – D	N27°06'29"E	47.03'
D	143+23.32	19.42'	☐ – ☐	° ′ ″	′

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S513	757165.7304	2166327.3989	1201.2600	XCP	GPS67-52-513	639+49.47	57.2483(LT)
S514	757785.7315	2166531.1016	1214.7000	XCP	GPS67-52-514	633+15.78	52.4591(LT)

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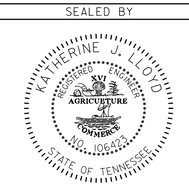

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	14B
CONST.	2014	APD/NH-52(48)	14B

REV. 12-07-12: ADDED HAUL ROAD

REV. 07-15-13: RE-ALIGNED FAIRVIEW LN. AND CHANGED LIMITS OF ROCK FILL SLOPE

REV. 01-17-14: MOVED CULVERT STA. 638+55.00 AND OUTLET DITCH

REV. 02-27-15: LABELED BROWN POWDER COATED GUARDRAIL ON FAIRVIEW LANE.

SR-52
PI 635+57.59
N 757,559.3980
E 2,166,586.8247
Δs 48° 58′ 31″ (RT)
θs 7° 54′ 00″
Δc 33° 10′ 31″ (RT)
Dc 4° 00′ 00″
Rc 1,432.39
Lc 829.38
Ts 851.85
Ls 395.00
SE 0.078 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 395′

FAIRVIEW LANE
PI 141+53.60
N 757,332.1659
E 2,166,699.6187
Δ 3° 09′ 35″ (LT)
D 5° 00′ 00″
R 1,145.92
L 63.20
T 31.61

FAIRVIEW LANE
PI 144+70.97
N 757,025.4753
E 2,166,617.8914
Δ 105° 22′ 20″ (RT)
D 38° 11′ 50″
R 150.00
L 275.86
T 196.80
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

140 635 640 145

143+00.00 10.00′
142+50.00 10.70′
BEGIN DIT STA. 142+50.00 OFFSET -16.00′
END DIT STA. 143+00.00 OFFSET -18.00′
FAIRVIEW LANE
S 18° 04′ 53″ W
S 14° 55′ 17″ W
142+50.00 9.46′
TYPE 21
143+00.00 10.00′
POT 140+00.00
PC 141+21.99
LIMIT OF CONST. 142+50.00
END GUARDRAIL STA. 142+55.00 OFFSET 14.00′
PT 145+50.03
PT 141+85.19
BROWN POWDER COATED GUARDRAIL
CLASS C RIPRAP
SR-52 STA. 639+25.00 = FAIRVIEW LN. STA. 147+31.84
N 757216.4583
E 2166290.9817
BEGIN DIT STA. 146+00.00 OFFSET -20.00′
END DIT STA. 146+55.00 OFFSET -29.00′
80 EW INV. 1174.00
PC 142+74.17
N 59° 42′ 22″ W
50′ R
TYPE IN-LINE
SR-52 STA. 641+23.96 = ROE LN. STA. 150+00.00
N 757050.9256
E 2166180.7718
50′ R
BEGIN GUARDRAIL STA. 633+09.25 OFFSET -43.00′
TYPE 38
60′
SR-52
30″ RCP JACKED IN-PLACE
PC 150+34.27
PT 151+28.11
TYPE IN-LINE
33′ R
N 38° 39′ 02″ W
POT 147+31.84
MATCH LINE STA. 630+50 SEE SHT. NO. 13B
MATCH LINE STA. 643+50 SEE SHT. NO. 15B
CLASS B RIPRAP
BEGIN RIPRAP STA. 151+30.00 OFFSET 25.00′
152+50.00 8.00′
END RIPRAP STA. 153+00.00 OFFSET 24.00′
153+00.00 4.93′
TYPE 21
ROE LANE
TYPE IN-LINE
50′ R
END GUARDRAIL STA. 151+52.00 OFFSET 11.50
POT 150+00.00
150
ROE LANE
PI 150+84.24
N 757,116.7184
E 2,166,128.1551
Δ 48° 47′ 41″ (RT)
D 52° 00′ 00″
R 110.18
L 93.84
T 49.98
SE 0.000 FT/FT
DESIGN SPEED 15 MPH
TRANS. LENGTH 000
N 10° 08′ 36″ W
152+50.00 8.00′
TYPE 21
153+00.00 4.84′
BEGIN GUARDRAIL STA. 152+75.00 OFFSET 11.50
639+30.13
GRADED SOLID ROCK
45′ OF 24″ CMP SIDE DRAIN (SR-52 STA. 635+00.00 OFFSET 250.00′)
HAUL ROAD
79 EW INV. 1118.04
LIMIT OF WORK 153+70.00
USBR TYPE VI BAFFLED DISSIPATOR SEE DETAIL SHEET FOR DIMENSIONS
CLASS C RIPRAP
BEGIN DIT STA. 639+40.61 OFFSET 259.47′
PROP. 8′ FLAT BOTTOM DITCH
WWC-8
POT 155+00.00
155
END DIT STA. 639+40.00 OFFSET 335.00′
SC 631+00.74
GRADED SOLID ROCK
DITCH TO TIE TO EXISTING WWC-8 AT ROW LINE
LIMIT OF CONST. 153+00.00
ST 643+25.13

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 106475
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50′

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	14C
CONST.	2014	APD/NH-52(48)	14C

REV. 07-15-13: ADJUSTED FAIRVIEW LN. INTERSECTION LABEL

REV. 01-17-14: MOVED CULVERT STA. 638+55.00

TRANSITION TRANSITION 631+00.74 631+00.74 RT.-0.078 RT. 0.078

FULL SUPER

FULL SUPER

639+30.13 639+30.13 RT.-0.078 LT. 0.078

TRANSITION

TRANSITION

641+63.90 RT.-0.020

NORMAL CROWN

643+25.13 LT.-0.020 N.C.

OH WIRE
STA. 631+84.97
LOW WIRE EL. 1244.61'
TEMP.65 DEG.
2 POWER
2 TELEPHONE

OH WIRE
STA. 635+40.46
LOW WIRE EL. 1240.66'
TEMP.65 DEG.
2 POWER
1 CABLE

VPT 631+37.90
EL. 1217.61

-2.25%

XCP-S514 (GPS 67-52-514)
STA. 633+15.78, -52.45'(LT)
N 757785.7315
E 2166531.1016
ELEV 1214.70
ALUM. DISK

XCP-S513 (GPS 67-52-513)
STA. 639+49.47, -57.25'(LT)
N 757165.7304
E 2166327.3989
ELEV 1201.26
ALUM. DISK

EXISTING GROUNDLINE
AT PROPOSED ℄

-2.25%

2% G

2% G

2% G

STA. 641+23.96 SR 52=
STA. 150+00.16 ROE LN.

STA. 639+25.00 SR 52
STA 147+31.84 FAIRVIEW LN.

LT 80 EW

RT 79 EW

STA. 638+55.00
380' OF 30" RCP WITH ENDWALL AND USBR VI
SKEW 75° LT
ENDWALLS REQD. : TYPE "B" ENDWALLS
STD. DWG. NOS. D-PE-9

D.A. = 27.82 AC.
Q50 = 35.15 CFS
Q100 = 38.76 CFS
W.S. ELEV. (50) = 1177.78
W.S. ELEV. (100) = 1178.21

TO BE CAPPED
AND FILLED

1250 1245 1240 1235 1230 1225 1220 1215 1210 1205 1200 1195 1190 1185 1180 1175 1170 1165 1160 1155

630+50 631+00 631+50 632+00 632+50 633+00 633+50 634+00 634+50 635+00 635+50 636+00 636+50 637+00 637+50 638+00 638+50 639+00 639+50 640+00 640+50 641+00 641+50 642+00 642+50 643+00 643+50

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	15
CONST.	2014	APD/NH-52(48)	15

REV. 07-15-13: ADJUSTED SLOPES PER GEOTECH REPORT AND ADJUSTED ROW TRACTS 26 & 38

REV. 04-07-14: ADDED TR. NO. 27 TO THIS SHEET. CHANGED PROPERTY OWNER NAME ON TR. NO. 26.

38
KELLY COLEMAN
AND WIFE
ANGIE COLEMAN

26
SHIRLEY MACKIE
JERRY HARGROVE
LINDA HARGROVE

SR-52
PI 654+02.30
N 756,047.6151
E 2,165,388.6508
Δs 43° 26′ 46″ (LT)
θs 6° 39′ 00″
Δc 30° 08′ 46″ (LT)
Dc 3° 30′ 00″
Rc 1,637.02
Lc 861.32
Ts 843.59
Ls 380.00
SE 0.074 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 380′

645
650
655
SC 649+38.71
TS 645+98.71
PROP. ROW
PRES. R.O.W.
TRACT
GROUND OBSCURED
GROUND OBSCL
CUT SLOPE
FILL SLOPE
MATCH LINE STA. 643+50 SEE SHT. NO. 14
MATCH LINE STA. 656+50 SEE SHT. NO. 16
S 38° 23′ 56″ W
SR-52
CP-S512
CP-S511
CP-S510
INV-1171.21
30"CMP
EXISTING PIPE TO BE CAPPED AND FILLED
INV-1116.13
ABANDONED GAS WELL
(APPROX. LOC.)
OVERTON COUNTY RECREATION ASSOCIATION, INC.
RHONDA LOOPER
RONALD LEE BAHR AND EDNA EILEEN BAHR TRUSTEE'S OF THE BAHR FAMILY TURST
PUMPING STATION
27
32
33
34
35
36

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S510	755941.2407	2165468.3770	1155.3100	XCP	GPS67-52-510	654+47.27	24.0791(RT)
S511	756432.0117	2165681.6486	1175.8000	XCP	GPS67-52-511	649+17.21	21.5873(RT)
S512	756853.0398	2165986.8937	1187.3300	XCP	GPS67-52-512	643+99.49	31.4282(RT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106471
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	15A
CONST.	2014	APD/NH-52(48)	15A

REV. 07-15-13: ADJUSTED SLOPES PER GEOTECH REPORT AND ADJUSTED ROW TRACTS 26 & 38

REV. 04-07-14: ADDED TR. NO. 27 TO THIS SHEET. CHANGED PROPERTY OWNER NAME ON TR. NO. 26.

38
KELLY COLEMAN
AND WIFE
ANGIE COLEMAN

26
SHIRLEY MACKIE
JERRY HARGROVE
LINDA HARGROVE

645

650

655

27

36

33
RHONDA LOOPER

34
RONALD LEE BAHR
AND
EDNA EILEEN BAHR
TRUSTEE'S OF
THE BAHR
FAMILY TURST

35
OVERTON COUNTY
RECREATION
ASSOCIATION, INC.

SR-52

MATCH LINE STA. 643+50 SEE SHT. NO. 14A

MATCH LINE STA. 656+50 SEE SHT. NO. 16A

CP-S512

CP-S511

CP-S510

TS 645+98.71

SC 649+38.71

CUT SLOPE

FILL SLOPE

PRES. R.O.W.

PROP. ROW

Point	North	East	Elevation	Feature	Description	Station	Offset
S510	755941.2407	2165468.3770	1155.3100	XCP	GPS67-52-510	654+47.27	24.0791(RT)
S511	756432.0117	2165681.6486	1175.8000	XCP	GPS67-52-511	649+17.21	21.5873(RT)
S512	756853.0398	2165986.8937	1187.3300	XCP	GPS67-52-512	643+99.49	31.4282(RT)

CONTROL POINTS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
BY AGREEMENT
AGRICULTURE
COMMERCE
NO. 109423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50'

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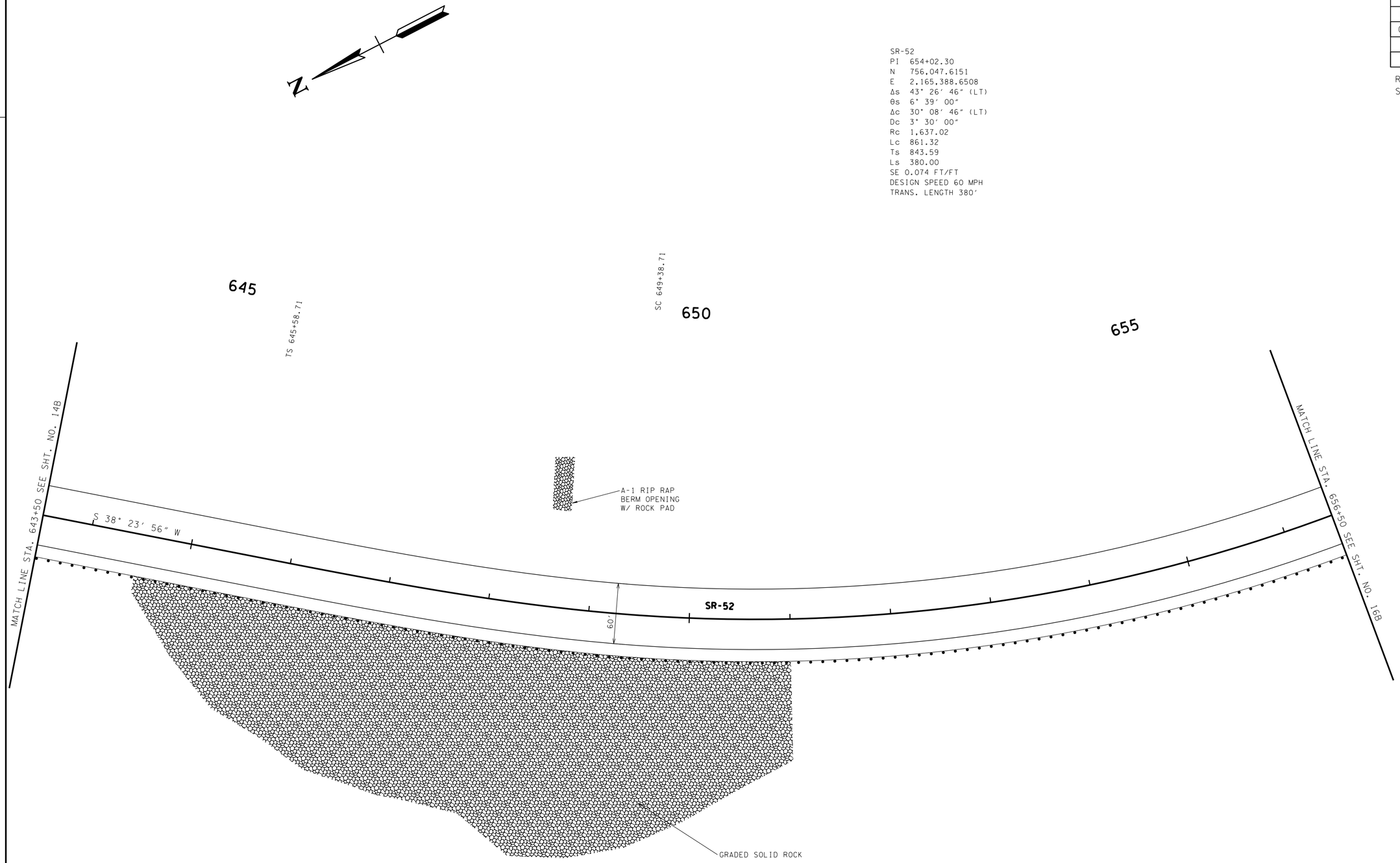
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	15B
CONST.	2014	APD/NH-52(48)	15B

REV. 07-15-13: ADDED ROCK FILL SLOPE

SR-52
PI 654+02.30
N 756,047.6151
E 2,165,388.6508
Δs 43° 26′ 46″ (LT)
θs 6° 39′ 00″
Δc 30° 08′ 46″ (LT)
Dc 3° 30′ 00″
Rc 1,637.02
Lc 861.32
Ts 843.59
Ls 380.00
SE 0.074 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 380′



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SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XXV
AGRICULTURE
SUMNER
NO. 108423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50′

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	15C
CONST.	2014	APD/NH-52(48)	15C

NORMAL CROWN | TRANSITION | FULL SUPER

645+58.71 RT.-0.020

647+20.41 LT.-0.020

649+38.71 RT. 0.074

649+38.71 LT.-0.074

XCP-S512 (GPS 67-52-512)
STA. 643+99.49, 31.43'(RT)
N 756853.0398
E 2165986.8937
ELEV 1187.33
ALUM. DISK

VPC 647+22.15
EL. 1181.96

VPI 648+82.15
EL. 1178.36

XCP-S511 (GPS 67-52-511)
STA. 649+17.21, 21.59'(RT)
N 756432.0117
E 2165681.6486
ELEV 1175.80
ALUM. DISK

VPT 650+42.15
EL. 1172.01

-2.25%

-3.97%

2" G

EXISTING GROUNDLINE
AT PROPOSED ℄

STA 648+71.35
EXISTING 30"CMP
SKEW 88° 45' 29" RT
FLOWS RIGHT
INLET 1171.2070
OUTLET 1116.1290

TO BE CAPPED
AND FILLED

VC = 320.00'
K = 186
V = 60+ MPH

XCP-S510 (GPS 67-52-510)
STA. 654+47.27, 24.08'(RT)
N 755941.2407
E 2165468.3770
ELEV 1155.31
ALUM. DISK

1215 1210 1205 1200 1195 1190 1185 1180 1175 1170 1165 1160 1155 1150 1145 1140 1135 1130 1125 1120

643+50 644+00 644+50 645+00 645+50 646+00 646+50 647+00 647+50 648+00 648+50 649+00 649+50 650+00 650+50 651+00 651+50 652+00 652+50 653+00 653+50 654+00 654+50 655+00 655+50 656+00 656+50

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SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 109423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

CONSTRUCTION EASEMENT
DRAINAGE EASEMENT

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S508	754616.2923	2165548.0750	1101.5200	XCP	GPS67-52-508	667+75.75	34.1105(LT)
S509	755422.8395	2165409.7233	1134.1200	XCP	GPS67-52-509	659+62.01	36.7775(RT)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	16
CONST.	2014	APD/NH-52(48)	16

REV. 07-15-13: CHANGED CONST. ESMT. TO ROW TRACT 26

N

GROUND OBSCURED
IRED
CS 658+00.02
CUT SLOPE
PRES. R.O.W.
PROP. ROW
660
ST 661+80.02
TRAIL
BOBBY LEDFORD AND WIFE ANN LEDFORD
1-SF RES
RW
LARRY SAVAGE AND KENNETH WINNINGHAM
665
ABANDONED GAS WELL
TS 667+86.50
JEFF VOSS AND WIFE DAWN VOSS
POOL
ENP
DENSE TREES
FILL SLOPE
INV-1091.43
GRAVEL
MATCH LINE STA. 656+50 SEE SHT. NO. 15
MATCH LINE STA. 669+50 SEE SHT. NO. 17
SR-52
S 5° 02' 50" E
CP-S508
CP-S509
EXISTING PIPE TO BE REMOVED
INV-1093.46
INV-1078.69
24" CMP
INV-1097.70
INV-1120.68
INV-1095.08
36" RCP
MICHAEL BROWN AND WIFE VICKIE BROWN
KELLEY COLLINS
STEVEN R. SIMS AND WIFE TAMMY L. SIMS
BILLY RAY BROWN AND WIFE LEILONI SUE BROWN
CHARLES E. DISHMAN AND WIFE RITA DIANA DISHMAN
RAY J. ROCKWELL AND WIFE WILMA ROCKWELL
EDITH SMITH
VERLIN L. HENSON AND TINA LOUISE HENSON
KATHY CRESELIOUS
CONC. DITCH
DECK
FLAG
TRAILER
CHRIS ROBINSON % OVA C. WARREN
HIDDEN VALLEY GOLF AND COUNTRY CLUB ROAD
8" W
2" G
EIP
EIP
MB
BBG
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SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 656+50 TO STA. 669+50

SCALE: 1"= 50'

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

CONSTRUCTION EASEMENT

DRAINAGE EASEMENT

N

ROW CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
A	657+81.17	158.02′	A – B	S15°28′30″W	21.27′
B	658+00.00	163.00′	B – C	S 1°35′20″E	104.51′
C	658+96.19	159.98′	C – D	S 8°59′03″E	115.25′
D	660+04.56	147.10′	D – E	N 7°12′49″W	104.51′
E	661+05.99	141.76′	E – F	S13°09′60″E	121.41′
F	662+25.56	124.51′	F – G	S 4°19′57″E	105.00′
G	663+30.55	125.82′	G – H	S 3°55′26″E	104.22′
H	664+34.75	127.86′	⬡ – ⬡	″	′

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S508	754616.2923	2165548.0750	1101.5200	XCP	GPS67-52-508	667+75.75	34.1105(LT)
S509	755422.8395	2165409.7233	1134.1200	XCP	GPS67-52-509	659+62.01	36.7775(RT)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	16A
CONST.	2014	APD/NH-52(48)	16A

REV. 07-15-13: CHANGED CONST. ESMT. TO ROW TRACT 26

N 13° 38′ 42″ E 459.76′
CS 658+00.02
CUT SLOPE
PRES. R.O.W.
S 3° 08′ 41″ W 82.80′
658+63.13 236.91′
659+55.00 230.00′
PROP. ROW
S 14° 06′ 45″ W 98.58′
660+55.00 200.00′
S 22° 50′ 33″ W 89.37′
661+36.26 158.68′
N 13° 38′ 41″ E 268.22′
662+41.91 123.04′
663+83.62 120.11′
N 13° 38′ 42″ E 111.28′
S 3° 51′ 53″ E 141.74′
N 3° 51′ 53″ W 99.14′
664+82.75 118.07′
CUT SLOPE
N 3° 51′ 53″ W 331.32′
PRES. R.O.W.
FILL SLOPE
668+14.08 111.22′
CP-S508
668+54.96 110.29′
S 34° 18′ 06″ E 125.94′
PROP. ROW
N 3° 51′ 53″ W 159.32′
668+54.96 110.29′
668+36.52 110.73′
S 3° 55′ 35″ E 99.12′
N 54° 50′ 16″ E 283.86′
N 11° 40′ 7″ E 216.00′
S 10° 7′ W 216.11′
ST 661+80.02
TS 667+86.50
S 88° 16′ 39″ W 312.52′
N 83° 26′ 45″ W 139.87′
S 83° 26′ 45″ E 139.04′
S 83° 26′ 45″ E 119.59′
EIP
25
24
26
18
19
BOBBY LEDFORD AND WIFE ANN LEDFORD
660
665
LARRY SAVAGE AND KENNETH WINNINGHAM
JEFF VOSS AND WIFE DAWN VOSS
MATCH LINE STA. 656+50 SEE SHT. NO. 15A
MATCH LINE STA. 669+50 SEE SHT. NO. 17A
SR-52
S 5° 02′ 50″ E

N 13° 40′ 16″ E 349.28′
S 1° 25′ 55″ W 98.40′
657+07.11 140.96′
657+07.11 140.96′
S 15° 28′ 30″ W 103.86′
658+21.87 95.30′
N 4° 49′ 38″ W 379.10′
PRES. R.O.W.
657+78.88 145.49′
N 5° 54′ 59″ W 127.89′
PROP. ROW
FILL SLOPE
658+96.19 159.98′
S 8° 59′ 03″ E 115.25′
PROP. ROW
660+04.56 147.10′
N 7° 12′ 49″ W 104.51′
661+05.99 141.76′
N 13° 10′ 0″ W 121.41′
661+91.54 83.95′
662+25.56 124.51′
S 4° 19′ 57″ E 105.00′
663+30.55 125.82′
S 3° 55′ 26″ E 104.22′
664+34.75 127.86′
FILL SLOPE
PRES. R.O.W.
N 2° 23′ 7″ W 665.20′
668+55.48 114.96′
S 89° 29′ 60″ W 45.00′
PROP. ROW
668+51.78 159.80′
N 0° 41′ 14″ W 418.91′
S 0° 41′ 14″ E 418.91′
668+51.78 159.80′
N 1° 52′ 47″ E 197.98′
CP-S509
27
29
217
216
23
22
21
KELLEY COLLINS
32
STEVEN R. SIMS AND WIFE TAMMY L. SIMS
31
BILLY RAY BROWN AND WIFE LEILONI SUE BROWN
30
MICHAEL BROWN AND WIFE VICKIE BROWN
CHARLES E. DISHMAN AND WIFE RITA DIANA DISHMAN
RAY J. ROCKWELL AND WIFE WILMA ROCKWELL
EDITH SMITH
VERLIN L. HENSON AND TINA LOUISE HENSON
KATHY CRESELIOUS
CHRIS ROBINSON % OVA C. WARREN
S 89° 40′ 27″ W 251.82′
N 1° 01′ 57″ E 230.07′
S 81° 0′ 57″ W 197.80′
S 81° 0′ 57″ W 198.80′
N 82° 34′ 13″ E 195.28′
N 85° 40′ 3″ E 204.33′
N 85° 40′ 3″ E 194.48′
N 85° 28′ 0″ E 191.59′
664+15.00 127.47′
S 3° 55′ 26″ E 15.00′
664+00.00 127.18′
S 84° 57′ 10″ W 15.82′
664+00.00 143.00′
S 5° 02′ 50″ E 15.00′
664+15.00 143.00′
S 84° 57′ 10″ W 45.53′
664+15.00 173.00′
S 3° 55′ 26″ E 19.75′
S 0° 41′ 14″ E 20.31′
664+55.00 129.40′
N 84° 57′ 10″ E 43.60′
664+55.00 173.00′
S 5° 02′ 50″ E 20.65′
S 5° 02′ 50″ E 19.35′
664+34.35 173.00′

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UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
AGRICULTURE
COMMERCE
NO. 106421
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

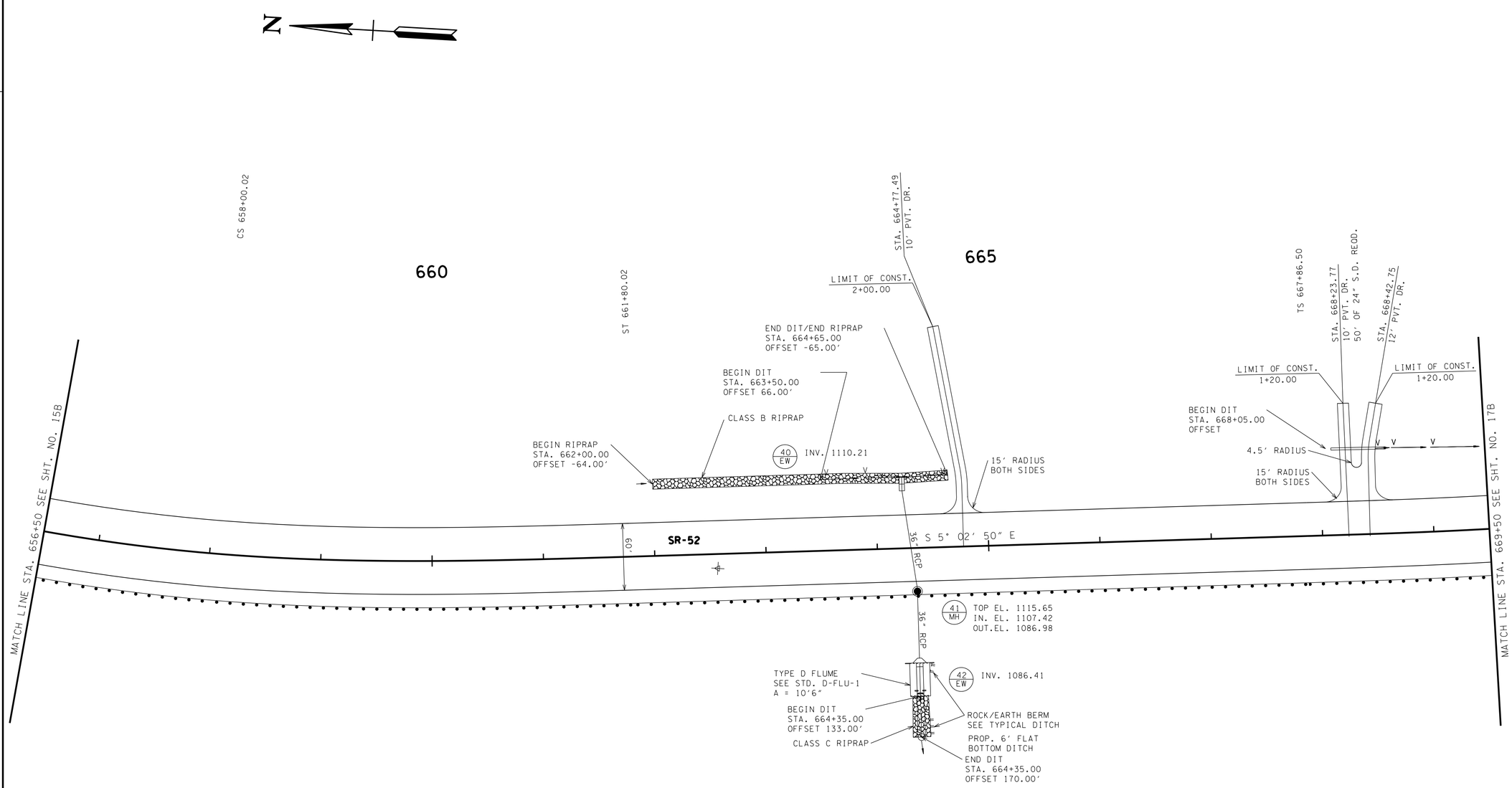
R.O.W. DETAILS

STA. 656+50 TO STA. 669+50

SCALE: 1″= 50′

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	16B
CONST.	2014	APD/NH-52(48)	16B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 656+50 TO STA. 669+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	16C
CONST.	2014	APD/NH-52(48)	16C

FULL SUPER
658+00.02 LT.-0.074

TRANSITION
660+18.32 LT.-0.020

NORMAL CROWN
668+64.30 LT.-0.020

FULL SUPER
658+00.02 RT. 0.074

TRANSITION
661+80.02 RT.-0.020

NORMAL CROWN
667+02.94 RT.-0.020

TRANSITION

OH WIRE
STA. 659+53.22
LOW WIRE EL.1167.9'
TEMP. 65 DEG.
4 POWER
3 TELEPHONE

OH WIRE
STA. 659+55.58
LOW WIRE EL.1170.89'
TEMP. 65 DEG.
1 GUY WIRE

OH WIRE
STA. 669+30.34
LOW WIRE EL.1130.13'
TEMP. 65 DEG.
1 POWER

XCP-S509 (GPS 67-52-509)
STA. 659+62.01, 36.78'(RT)
N 755422.8395
E 2165409.7283
ELEV 1134.12
ALUM. DISK

EXISTING GROUNDLINE
AT PROPOSED ℄

VC = 130.00'
K = 141
V = 60 MPH

LT 40 EW
RT 41 MH
RT 42 EW

TO BE REMOVED

STA 663+11.20
EXISTING 36"CMP
SKEW 74° 45' 53" RT
FLOWS RIGHT
INLET 1120.4730
OUTLET 1097.6990

BEG DIT LT
STA. 663+50.00
EL. 1115.01

VPI LT 664+24.00
EL. 1110.22
END DIT LT
STA. 664+65.00
EL. 1112.45

TO BE REMOVED

VPC 666+89.04
EL. 1106.63

VPT 668+19.04
EL. 1102.06

XCP-S508 (GPS 67-52-508)
STA. 667+75.75, -34.11'(LT)
N 754616.2923
E 2165548.0750
ELEV 1101.52
ALUM. DISK

VPI 667+54.04
EL. 1104.05

BEG DIT LT
STA. 668+05.00
EL. 1095.72

TO BE REMOVED

STA 667+94.73
EXISTING 24"CMP
SKEW 89° 35' 13" RT
FLOWS RIGHT
INLET 1091.4270
OUTLET 1078.6890

STA 664+58.58
EXISTING 18"RCP
SKEW 59° 25' 19" RT
FLOWS RIGHT
INLET 1110.6540
OUTLET 1093.4590

STA. 664+34.83
147' OF 36" RCP WITH MANHOLE DROP AND ENDWALLS
SKEW 82°47'21"
ENDWALLS REQD. : TYPE "U"(LT) & "A"(RT) ENDWALLS
STD. DWG. NOS. D-PE-3B(1)&(2), D-PE-1, D-MH-2
D-FLU-1

D.A. = 33.10 AC.
Q50 = 44.99 CFS
Q100 = 49.89 CFS
W.S. ELEV. (50) = 1113.84
W.S. ELEV. (100) = 1114.20

-3.97%
-6.48%
-5.45%
-3.97%
-3.05%
-3.29%
2' G

1170 1165 1160 1155 1150 1145 1140 1135 1130 1125 1120 1115 1110 1105 1100 1095 1090 1085 1080 1075

656+50 657+00 657+50 658+00 658+50 659+00 659+50 660+00 660+50 661+00 661+50 662+00 662+50 663+00 663+50 664+00 664+50 665+00 665+50 666+00 666+50 667+00 667+50 668+00 668+50 669+00 669+50

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 656+50 TO STA. 669+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	17
CONST.	2014	APD/NH-52(48)	17

REV. 07-15-13: ADJUSTED SLOPE LINES, ADDED CROSS DRAIN FOR HIDDEN VALLEY LN. AND ADJUSTED EASEMENT TRACT 20

REV. 04-07-14: LABELED PRESENT R.O.W. APPROX. STA. 675+00 (RT.).

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S506	753419.0178	2165882.1758	1063.7700	XCP	GPS67-52-506	680+28.69	59.8108(RT)
S507	754062.3462	2165576.0136	1085.0000	XCP	GPS67-52-507	673+26.81	32.2082(RT)

ALLRED STREET
PI 201+87.05
N 754,346.1844
E 2,165,670.0275
Δ 80° 45′ 19″ (LT)
D 46° 00′ 00″
R 124.56
L 175.55
T 105.92
SE 0.062 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 77′

SR-52 STA. 670+65.99 =
ALLRED RD. STA. 202+74.56
N 754325.5643
E 2165547.9535

SR-52 STA. 673+81.62 =
HIDDEN VALLEY GOLF & COUNTRY
CLUB RD. STA. 160+00.00
N 754019.9093
E 2165625.2465

SR-52 STA. 680+11.94 =
TOWER HILL RD. STA. 170+00.00
N 753466.6250
E 2165921.8042

HIDDEN VALLEY GOLF
AND COUNTRY CLUB ROAD
PI 161+24.70
N 754,011.1061
E 2,165,500.8601
Δ 80° 27′ 48″ (RT)
D 52° 00′ 00″
R 110.18
L 154.74
T 93.22
SE 0.026 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 79′

SR-52
PI 674+29.94
N 753,962.2191
E 2,165,572.8308
Δs 30° 06′ 15″ (LT)
θs IN 3° 58′ 30″
Δc 26° 07′ 45″ (LT)
Dc 3° 00′ 00″
Rc 1,909.86
Lc 870.97
Ts IN 643.44
Ts OUT 516.66
Ls IN 265.00
SE 0.068 FT/FT
DESIGN SPEED 60 MPH
TRANS. LENGTH 355′

HIDDEN VALLEY GOLF
AND COUNTRY CLUB ROAD
PI 163+82.72
N 754,292.7176
E 2,165,432.8095
Δ 74° 02′ 21″ (LT)
D 50° 00′ 00″
R 114.59
L 148.08
T 86.41
SE 0.019 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 111′

TOWER HILL ROAD
PI 171+27.64
N 753,393.1378
E 2,165,817.4414
Δ 65° 09′ 46″ (RT)
D 30° 00′ 00″
R 190.99
L 217.21
T 122.05
SE 0.030 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 10′

SLOPE EASEMENT

JASON PAUL DILLON
AND WIFE
JENNIFER LEE DILLON

TAMMY E. PARRISH

RANDALL GUNNELS

RICHARD PANNELL
AND WIFE
LISA PANNELL

PAUL STRONG
AND WIFE
ANNITA STRONG

RAYMOND P. LEDBETTER
AND WIFE
HELEN LEDBETTER

EDWARD LEDBETTER
AND
CHARLOTTE LEDBETTER

EVA JEAN NORRIS

CHRISTY RAINES
AND
MARSHA PRESTON

RUBEN MURGUIA
AND WIFE,
YOLANDA MURGUIA

UPPER CUMBERLAND
ELECTRIC MEMBERSHIP
CORPORATION

LIMIT OF CONST.
200+10.00

LIMIT OF CONST.
164+75.00

LIMIT OF CONST.
171+20.00

SR-52

HIDDEN VALLEY GOLF AND COUNTRY CLUB ROAD

TOWER HILL ROAD

ALLRED

EXISTING PIPE TO BE REMOVED

PROP. ROW

PROP. SLOPE ESMT.

PROP. CONST. ESMT.

CONST. ESMT.

PRES. R.O.W.

DENSE TREES

CONC.DITCH

GRAVEL

CUT SLOPE

FILL SLOPE

CURB

MATCH LINE STA. 669+50 SEE SHT. NO. 16

MATCH LINE STA. 682+50 SEE SHT. NO. 18

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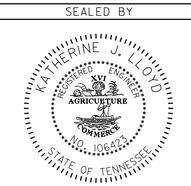

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	17A
CONST.	2014	APD/NH-52(48)	17A

REV. 07-15-13: ADJUSTED SLOPE LINES, ADDED CROSS DRAIN FOR HIDDEN VALLEY LN. AND ADJUSTED EASEMENT TRACT 20

REV. 04-07-14: LABELED PRESENT R.O.W. APPROX. STA. 675+00 (RT.).

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S506	753419.0178	2165882.1758	1063.7700	XCP	GPS67-52-506	680+28.69	59.8108(RT)
S507	754062.3462	2165576.0136	1085.0000	XCP	GPS67-52-507	673+26.81	32.2082(RT)

N 10° 1' 45" W 83.06' EIP
N 9° 32' 51" W 92.54' EIP
N 13° 25' 36" W 143.73' EIP
JASON PAUL DILLON AND WIFE JENNIFER LEE DILLON
15
TAMMY E. PARRISH
17
18
S 67° 48' 48" W 332.76'
SC 670+51.50
RANDALL GUNNELS
16
200
N 60° 8' 51" E 368.82'
S 6° 37' 12" E 722.22'
680
N 5° 6' 27" W 218.12'
N 5° 53' 50" W 84.60' EIP
PRES. R.O.W.
SR-52 STA. 680+11.94 =
TOWER HILL RD. STA. 170+00.00
N 753466.6250
E 2165921.8042
SR-52 STA. 670+65.99 =
ALLRED RD. STA. 202+74.56
N 754325.5643
E 2165547.9535
SR-52 STA. 673+81.62 =
HIDDEN VALLEY GOLF & COUNTRY CLUB RD. STA. 160+00.00
N 754019.9093
E 2165625.2465
675
PT 679+22.47
11
UPPER CUMBERLAND ELECTRIC MEMBERSHIP CORPORATION
PRES. R.O.W.
S 32° 32' 35" E 788.00'
MATCH LINE STA. 682+50 SEE SHT. NO. 18A
682+50 SEE SHT. NO. 18A
N 0° 50' 16" W 207.36'
N 0° 55' 55" W 199.40'
670
670+96.64 204.33'
N 88° 46' 11" E 7.65'
RICHARD PANNELL AND WIFE LISA PANNELL
A
S 40° 58' 13" E 39.06'
671+33.18 216.35' PROP. ROW
S 1° 28' 24" E 102.13'
672+45.30 195.66'
674+18.22 214.57'
S 24° 24' 40" E 155.45' PRES. R.O.W.
672+45.30 195.66'
EIP
C
S 34° 18' 06" E 125.94'
B
S 55° 7' 49" E 95.79'
19
N 22° 08' 11" W 141.47'
671+90.92 172.01'
N 18° 49' 33" W
670+19.32 103.10'
N 88° 46' 11" E 25.08'
LIMIT OF CONST. 200+10.00
N 3° 51' 53" W 159.32'
CUT SLOPE
N 64° 42' 19" E 100.00'
674+63.61 123.44'
675+76.50 116.62'
S 19° 23' 21" E 106.00'
S 80° 22' 23" W
MATCH LINE STA. 669+50 SEE SHT. NO. 16A
SR-52
S 85° 57' 06" W
CP-S507
N 13° 35' 06" W
FILL SLOPE
S 54° 55' 55" W
S 35° 09' 05" E
PROP. SLOPE ESMT.
N 37° 44' 0" W 200.00'
681+14.40 67.08'
PROP. CONST. ESMT.
9
RUBEN MURGUIA AND WIFE, YOLANDA MURGUIA
N 73° 28' 0" W 109.00'
N 43° 36' 31" E 66.84'
680+28.87 134.66'
680+41.90 200.22'
N 20° 3' 46" W 105.79'
S 20° 3' 46" E 196.56'
214
PC 682+16.90
N 73° 9' 25" W 161.47'
679+55.71 250.34'
170
805-dp
670+37.33 189.14' CONST. ESMT.
N 87° 37' 27" W
S 88° 53' 18" E 116.81'
21
S 87° 41' 55" E 199.68'
670+90.76 200.88'
PROP. SLOPE ESMT.
FILL SLOPE
PROP. CONST. ESMT.
N 2° 13' 49" E 287.17'
673+58.46 290.12'
673+35.93 280.72'
PRES. R.O.W.
PAUL STRONG AND WIFE ANNITA STRONG
20
165
LIMIT OF CONST. 164+75.00
N 3° 3' 0" W 290.00'
675+01.71 76.61'
674+39.22 77.05'
S 21° 59' 0" 65.00'
S 5° 24' 44" W 98.12'
675+15.38 84.23'
675+96.14 132.65'
S 11° PRES. R.O.W. 43' 54" W 100.00'
676+68.56 194.47'
PRES. R.O.W. N 86° 52' 43" W 230.68'
N 5° 24' 44" E 16.15'
S 86° 52' 43" E 253.56'
14
13
12
160
N 87° 13' 15" W 244.25'
N 84° 13' 16" W 24.84'
S 84° 13' 16" E 200.00'
S 88° 13' 8" E 173.00'
S 2° 3' 51" W 27.56'
N 3° 3' 0" W 100.07'
S 1° 51' 69.98'
EIP
RAYMOND P. LEDBETTER AND WIFE HELEN LEDBETTER
EDWARD LEDBETTER AND CHARLOTTE LEDBETTER
12 EVA JEAN NORRIS
LIMIT OF CONST. 171+20.00
N 59° 59' 19" W
677+86.63 291.19'
PRES. R.O.W.
SLOPE EASEMENT
214
CHRISTY RAINES AND MARSHA PRESTON

PROP. ROW CALLOUTS

CODE	STATION	OFFSET	COURSE	BEARING	DISTANCE
A	699+70.00	170.00'	A–B	S42°41'42"E	74.02'
B	670+69.27	182.69'	B–C	S16°04'38"E	92.11'
C	670+95.28	196.78'	C–D	S40°58'13"E	27.34'

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SEALED BY
KATHERINE J. LLOYD
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XVI
AGRICULTURE
PALMER
NO. 108433
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50'

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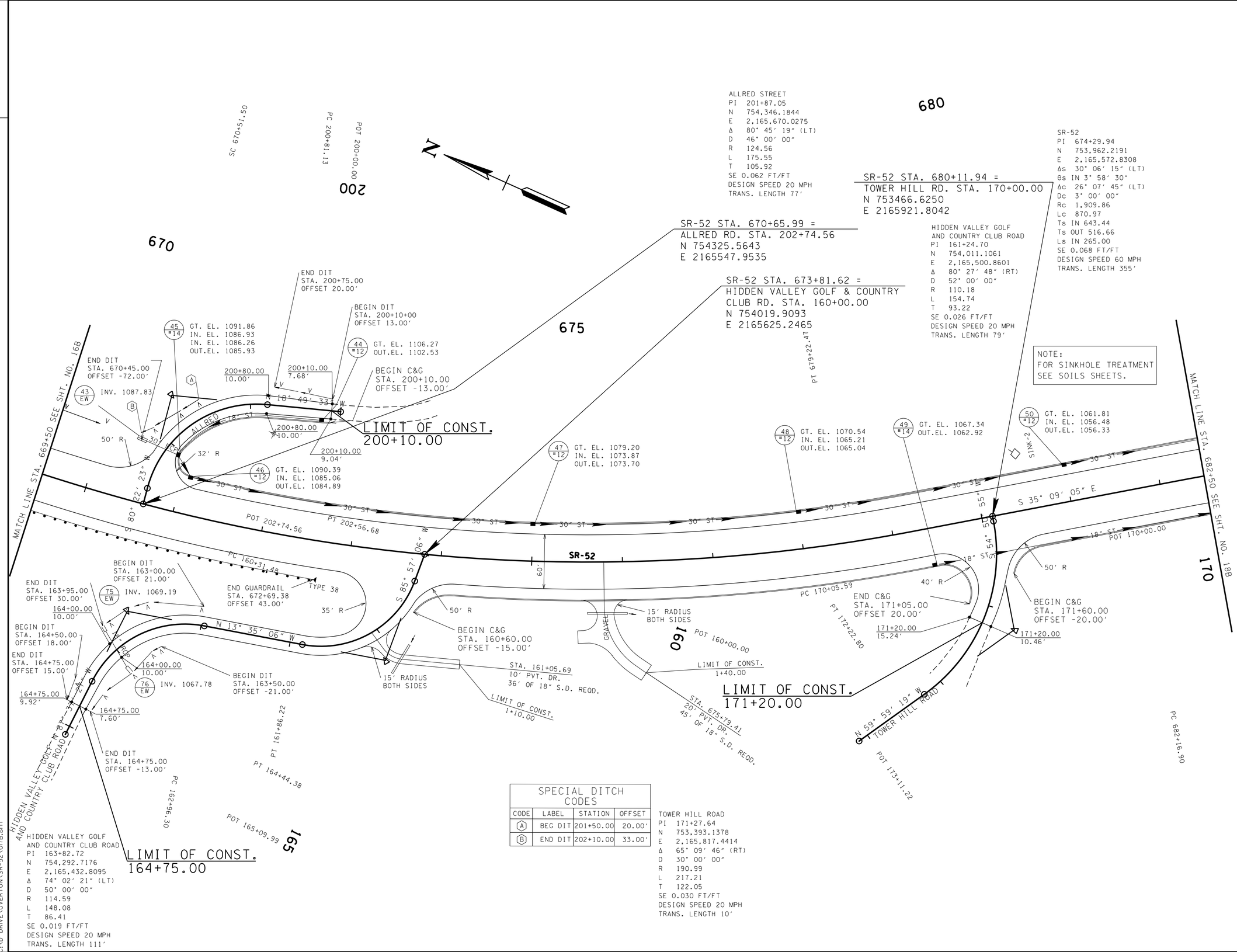
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	17B
CONST.	2014	APD/NH-52(48)	17B

REV. 12-07-12: ADJUSTED CATCH BASIN ELEVATIONS

REV. 07-15-13: ADDED CROSS DRAIN AND ADJUSTED SPECIAL DITCHES ON HIDDEN VALLEY LN.

REV. 04-07-14: ADDED SINKHOLE TREATMENT NOTE.



SPECIAL DITCH CODES

CODE	LABEL	STATION	OFFSET
(A)	BEG DIT	201+50.00	20.00′
(B)	END DIT	202+10.00	33.00′

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SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE & COMMERCE
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	17C
CONST.	2014	APD/NH-52(48)	17C

TRANSITION 670+57.94 LT.-0.068
TRANSITION 670+57.94 RT. 0.068

OH WIRE
STA. 670+37.52
LOW WIRE EL.1122.17'
TEMP. 65 DEG.
1 TELEPHONE

STA. 670+86.15 SR 52
STA 202+76.56 ALLRED

LT 43 EW
LT 45 #14
LT 46 #12

END DIT LT
STA. 670+45.00
EL. 1087.83

PROP. 30" RCP (LT)
PROP. 30" RCP (LT)
PROP. 30" RCP (LT)

EXISTING GROUNDLINE AT PROPOSED ℄

TRANSITION 678+20.99 LT.-0.033
TRANSITION 678+20.99 RT. 0.033

OH WIRE
STA 674+24.25
LOW WIRE EL.1118.24'
TEMP. 65 DEG.
1 POWER

XCP-S507 (GPS 67-52-507)
STA. 673+26.81, 32.21'(RT)
N 754062.3462
E 2165576.0136
ELEV 1085.00
ALUM. DISK

LT 47 #12

8" W

STA. 673+81.73 SR 52
STA 160+00.00 HIDDEN VALLEY GOLF AND COUNTRY CLUB RD.

TRANSITION 678+68.82 LT.-0.020
NORMAL CROWN 680+15.99 RT.-0.020
TRANSITION 681+32.53 LT.-0.020
NORMAL CROWN TRANSITION

OH WIRE
STA. 680+52.90
LOW WIRE EL.1094.66'
TEMP. 65 DEG.
1 POWER

LT 48 #12
RT 49 #14

-3.05%

STA. 680+11.94 SR 52
STA 170+00.00 TOWER HILL RD.

XCP-S506 (GPS 67-52-506)
STA. 680+28.69, 59.81'(RT)
N 753419.0178
E 2165882.1758
ELEV 1063.77
ALUM. DISK

LT 50 #12

PROP. 18" RCP (RT)
PROP. 30" RCP (LT)

STA 680+41.48
EXISTING 24"CMP
SKEW 59° 30' 14" RT
FLOWS RIGHT
INLET 1061.0270
OUTLET 1059.0470

TO BE REMOVED

669+50 670+00 670+50 671+00 671+50 672+00 672+50 673+00 673+50 674+00 674+50 675+00 675+50 676+00 676+50 677+00 677+50 678+00 678+50 679+00 679+50 680+00 680+50 681+00 681+50 682+00 682+50

1125 1120 1115 1110 1105 1100 1095 1090 1085 1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106473
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	18
CONST.	2014	APD/NH-52(48)	18

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL

REV. 07-15-13: UNLINED TRACTS 7 & 209

REV. 04-07-14: DELETED PVT. DRIVE STA. 190+94 AND ADDED PVT. DRIVE STA. 191+35 ON CASH STREET.

REV. 02-27-15: ADDED "Y" DRIVEWAY OFF PVT. DRIVE STA. 695+27.61(RT).

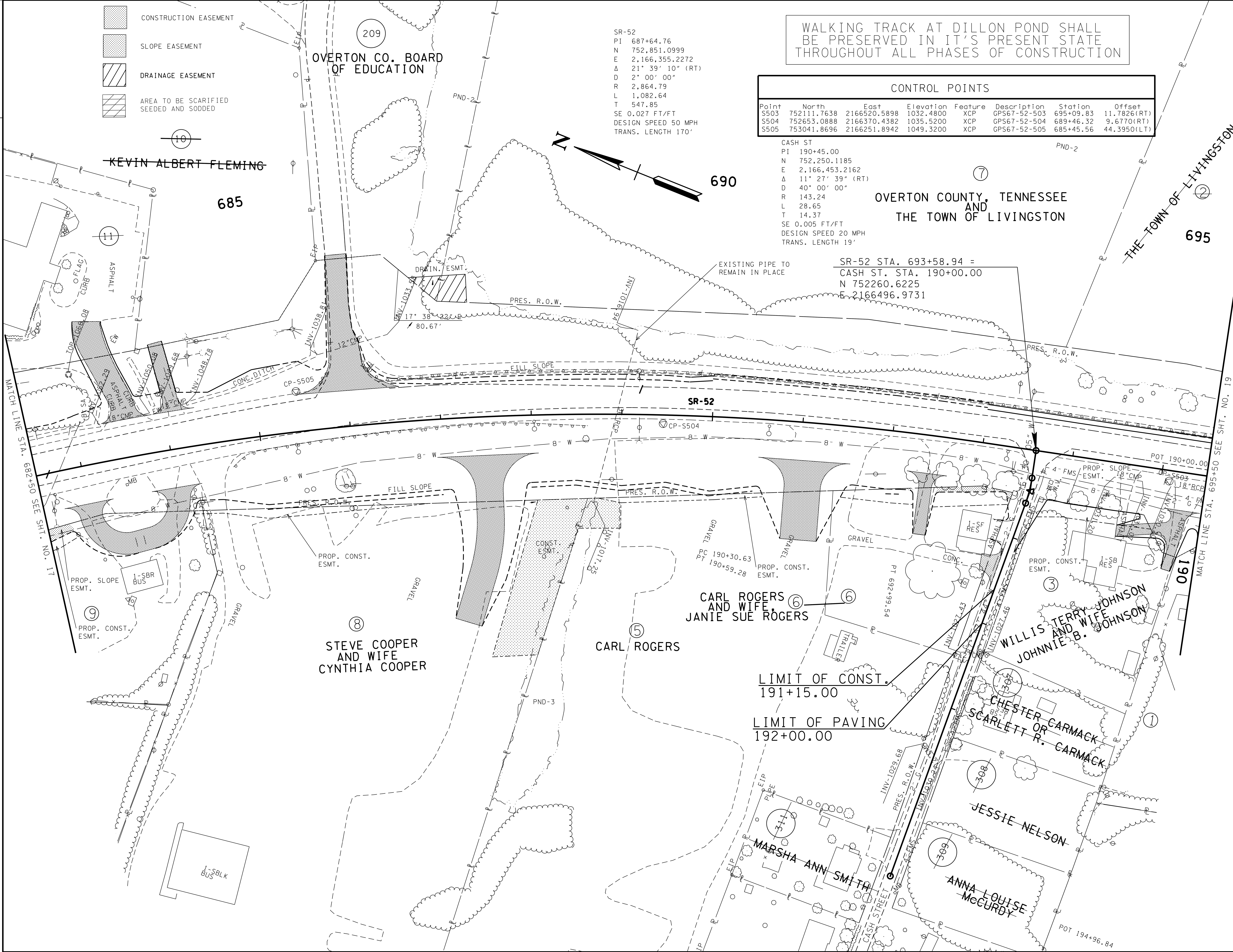
WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S503	752111.7638	2166520.5898	1032.4800	XCP	GPS67-52-503	695+09.83	11.7826(RT)
S504	752653.0888	2166370.4382	1035.5200	XCP	GPS67-52-504	689+46.32	9.6770(RT)
S505	753041.8696	2166251.8942	1049.3200	XCP	GPS67-52-505	685+45.56	44.3950(LT)

SR-52
PI 687+64.76
N 752,851.0999
E 2,166,355.2272
Δ 21° 39′ 10″ (RT)
D 2° 00′ 00″
R 2,864.79
L 1,082.64
T 547.85
SE 0.027 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 170′

CASH ST
PI 190+45.00
N 752,250.1185
E 2,166,453.2162
Δ 11° 27′ 39″ (RT)
D 40° 00′ 00″
R 143.24
L 28.65
T 14.37
SE 0.005 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 19′



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UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 682+50 TO STA. 695+50

SCALE: 1″= 50′

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

CONSTRUCTION EASEMENT
SLOPE EASEMENT
DRAINAGE EASEMENT

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	18A
CONST.	2014	APD/NH-52(48)	18A

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL

REV. 07-15-13: UNLINED TRACTS 7 & 209

REV. 04-07-14: DELETED PVT. DRIVE STA. 190+94 AND ADDED PVT. DRIVE STA. 191+35 ON CASH STREET.

REV. 02-27-15: ADDED A "Y" DRIVEWAY OFF PVT. DRIVE STA. 695+27.61(RT).

CONTROL POINTS

Point	North	East	Elevation	Feature	Description	Station	Offset
S503	752111.7638	2166520.5898	1032.4800	XCP	GPS67-52-503	695+09.83	11.7826(RT)
S504	752653.0888	2166370.4382	1035.5200	XCP	GPS67-52-504	689+46.32	9.6770(RT)
S505	753041.8696	2166251.8942	1049.3200	XCP	GPS67-52-505	685+45.56	44.3950(LT)

209
OVERTON CO. BOARD OF EDUCATION

10
~~KEVIN ALBERT FLEMING~~

11

685

690

695

7
OVERTON COUNTY, TENNESSEE AND THE TOWN OF LIVINGSTON

2
THE TOWN OF LIVINGSTON

SR-52 STA. 693+58.94 =
CASH ST. STA. 190+00.00
N 752260.6225
E 2166496.9731

N 73° 54' E 100.03'
S 63° 37' 44" W 235.28'
N 79° 26' 18" E 479.66'
S 35° 30" E 62.88'
N 74° 36' 0" E 178.31'
S 80° 7' 38" E 77.23'
N 27° 17' 43" W 185.69'
S 25° 23' 22" E 37.32'
S 25° 23' 22" E 25.98'
S 65° 12' 38" W 31.30'
N 17° 38' 22" E 80.67'
N 33° 49' 33" W 162.01'
N 19° 34' 36" W 476.27'
N 14° 0' 6" W 220.45'
N 14° 0' 7" W 134.55'
S 23° 47' 9" E 107.48'
N 23° 47' 9" W 424.44'
S 23° 47' 9" E 270.66'
S 23° 47' 9" E 165.00'
S 54° 52' 21" W 69.85'
N 88° 16' 58" E 152.56'
N 88° 27' 28" E 298.55'
S 84° 12' 17" W 180.12'
S 24° 35' 22" E 50.27'
S 85° 42' 21" W 221.29'
S 1° 37' 32" E 150.00'
S 1° 15' 8" E 150.00'
N 88° 44' 52" W 99.56'
N 71° 47' 12" E 137.34'
S 4° 42' 56" E 150.00'
S 87° 21' 20" W 212.88'
S 1° 39' 42" W 170.02'
N 2° 50' 27" W 172.18'
S 2° 50' 20" E 172.81'
N 2° 50' 42" W 171.67'
N 87° 45' 57" E 100.00'
S 87° 45' 57" W 100.00'
N 88° 26' 17" E 100.00'
S 76° 30' 05" W 179.85'
N 87° 36' 43" E 190.66'
S 9° 44' 47" E 33.99'
N 88° 22' 34" E 100.65'
N 87° 45' 57" E 179.85'

686+75.00 158.06'
687+10.37 157.90'
687+35.00 158.06'
686+47.99 185.61'
685+80.66 185.49'
687+35.00 126.76'
683+80.12 114.93'
685+35.35 124.80'
687+03.35 129.96'
691+60.13 119.30'
695+09.37 118.89'
693+74.83 117.71'
688+05.00 93.87'
688+61.87 92.95'
688+99.77 97.53'
688+99.77 125.69'
688+50.77 125.69'
687+45.00 265.00'
688+00.39 264.51'
691+39.91 72.56'
693+40.30 49.65'
693+06.38 47.43'
694+87.07 52.78'
693+70.07 52.14'
695+13.01 90.77'
695+29.24 94.05'
684+24.97 71.89'
683+16.17 56.39'

N 68° 30' 44" E 28.15'
S 21° 59' 06" E 46.85'
PC 190+30.63
PT 190+59.28
PT 692+99.54

FILL SLOPE
PRES. R.O.W.
DRAIN. ESMT.
CONST. ESMT.
PROP. CONST. ESMT.
PROP. SLOPE ESMT.
PROP. SLOPE ESMT.
PROP. CONST. ESMT.
PROP. CONST. ESMT.
PROP. CONST. ESMT.
PROP. CONST. ESMT.
PROP. SLOPE ESMT.
PROP. CONST. ESMT.

CP-S505
CP-S504
CP-S503

SR-52

MATCH LINE STA. 682+50 SEE SHT. NO. 17A
MATCH LINE STA. 695+50 SEE SHT. NO. 19A

9
PROP. CONST. ESMT.

8
STEVE COOPER AND WIFE CYNTHIA COOPER

5
CARL ROGERS

6
CARL ROGERS AND WIFE, JANIE SUE ROGERS

3
WILLIS TERRY JOHNSON AND WIFE JOHNNIE B. JOHNSON

1
~~CHESTER CARMACK~~ OR ~~SCARLETT R. CARMACK~~

307
308
309
311

~~JESSIE NELSON~~
~~ANNA LOUISE McCURDY~~
~~MARSHA ANN SMITH~~

LIMIT OF CONST.
191+15.00

LIMIT OF PAVING
192+00.00

190

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106471
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	18B
CONST.	2014	APD/NH-52(48)	18B

REV. 12-07-12: ADDED SHOULDER TRANSITION & GRAVITY WALL, ADJUSTED LT. SHOULDER WIDTH, SHIFTED DRAINAGE & ADJUSTED CATCH BASIN ELEVATIONS

REV. 04-07-14: DELETED PVT. DRIVE STA. 190+94 AND ADDED PVT. DRIVE STA. 191+35 ON CASH STREET.

REV. 02-27-15: ADDED A "Y" DRIVEWAY OFF PVT. DRIVE STA. 695+27.61(RT).

A BEGIN SHOULDER TRANSITION
STA. 685+45.00
OFFSET -40.00'

B END SHOULDER TRANSITION
STA. 686+45.00
OFFSET -38.00'

SR-52
PI 687+64.76
N 752,851.0999
E 2,166,355.2272
Δ 21° 39' 10" (RT)
D 2° 00' 00"
R 2,864.79
L 1,082.64
T 547.85
SE 0.027 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 170'

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

CASH ST
PI 190+45.00
N 752,250.1185
E 2,166,453.2162
Δ 11° 27' 39" (RT)
D 40° 00' 00"
R 143.24
L 28.65
T 14.37
SE 0.005 FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH 19'

SR-52 STA. 693+58.94 =
CASH ST. STA. 190+00.00
N 752260.6225
E 2166496.9731

PND-2

690

685

695

END DIT/END RIPRAP
STA. 685+75.00
OFFSET -81.00'

52 #12 GT. EL. 1057.12
IN. EL. 1051.79
OUT.EL. 1051.62

LIMIT OF CONST. 1+20.00

LIMIT OF CONST. 1+60.00

STA. 683+58.06
26' BUS. ENT.

STA. 684+14.56
16" FLD. ENT.

15' RADIUS BOTH SIDES

BEGIN DIT/BEGIN RIPRAP
STA. 684+25.00
OFFSET -52.00'

53 #12 GT. EL. 1052.59
IN. EL. 1047.26
OUT.EL. 1047.09

54 #14 GT. EL. 1049.84
IN. EL. 1043.47
OUT.EL. 1042.97

CLASS C RIPRAP

15' RADIUS BOTH SIDES

STA. 686+01.28
24' BUS. ENT.
80' OF 24" S.D. REQD.

LIMIT OF CONST. 1+90.00

TO BE JACKED-IN-PLACE
CLASS C RIPRAP APRON
6'Wx22'Wx20'Lx3.5'D

CLASS B RIPRAP APRON
10.5'Wx41'Wx38'Lx2.5'D

58 EW INV. 1022.67

TO BE JACKED-IN-PLACE

44' RADIUS BOTH SIDES

BEGIN GUARDRAIL/4" CURB
STA. 686+64.00
OFFSET -41.00'

4" SLOPING CURB REQUIRED WHERE GUARDRAIL PRESENT

BEGIN GRAVITY WALL
STA. 690+00.00
OFFSET -46.00'

63 #14 GT. EL. 1032.93
IN. EL. 1028.84
OUT.EL. 1028.51

64 #28 GT. EL. 1033.63
OUT.EL. 1030.06

4" SLOPING CURB REQUIRED WHERE GUARDRAIL PRESENT

END GRAVITY WALL
STA. 693+00.00
OFFSET -43.50'

MATCH LINE STA. 682+50 SEE SHT. NO. 17B

MATCH LINE STA. 695+50 SEE SHT. NO. 19B

SR-52

TYPE 38

30" ST.

36" ST.

18" ST.

42"

60"

36" RCP EXIST.

END GUARDRAIL
STA. 686+81.25
OFFSET 43.00'

55 #28 GT. EL. 1048.18
IN. EL. 1043.46
IN. EL. 1039.47
OUT.EL. 1039.26

56 #28 GT. EL. 1043.30
IN. EL. 1034.38
OUT.EL. 1023.38

BEGIN GUARDRAIL/4" CURB
STA. 684+75.00
OFFSET 43.00'

4" SLOPING CURB REQUIRED WHERE GUARDRAIL PRESENT

51 #12 GT. EL. 1056.21
IN. EL. 1051.26
OUT.EL. 1051.09

STA. 684+00.40
24' BUS. ENT.
LIMIT OF CONST. 1+20.00

STA. 683+00.00
24' BUS. ENT.
LIMIT OF CONST. 1+20.00

BEGIN GUARDRAIL
STA. 688+20.00
OFFSET 43.00'

PC 190+30.53

PT 190+59.28

LIMIT OF CONST. 2+30.00

STA. 687+50.44
30' BUS. ENT.
80' OF 24" S.D. REQD.

PND-3

61 #28 GT. EL. 1035.98
OUT.EL. 1032.24

END GUARDRAIL/4" CURB
STA. 690+07.50
OFFSET 43.00'

62 #12 GT. EL. 1033.47
IN. EL. 1029.73
OUT.EL. 1029.61

4" SLOPING CURB REQUIRED WHERE GUARDRAIL PRESENT

30' RADIUS BOTH SIDES

STA. 691+04.78
40' BUS. ENT.

LIMIT OF CONST. 1+30.00

LIMIT OF CONST. 1+10.00

PT 692+42.58
STA. 692+99.54
14' BUS. ENT.

15' RADIUS BOTH SIDES

STA. 191+35
18' PVT. DR.

LIMIT OF CONST. 0+24.96

END C&G
STA. 190+65.00
OFFSET 6.00'

30' R

30' R

BEGIN C&G
STA. 190+65.00
OFFSET -6.00

LIMIT OF CONST. 0+70.00

LIMIT OF CONST. 1+10.00

15'R

STA. 695+27.61
10' PVT. DR.

POT 190+00.00

192+00.00
5.01'

LIMIT OF CONST.
191+15.00

192+00.00
6.12'

LIMIT OF PAVING
192+00.00

CASH STREET

POT 194+96.84

190

S 87° 30' 05" W

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OCTOBER
1978
NO. 106427
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	18C
CONST.	2014	APD/NH-52(48)	18C

REV. 12-07-12: ADDED GRAVITY WALL LT.

FULL SUPER
FULL SUPER

N.C. 682+77.22 RT.-0.020 683+02.53 RT.-0.027

TRANSITION 683+02.53 LT. 0.027

692+15.17 RT.-0.027 692+40.49 RT.-0.020

TRANSITION 693+85.17 LT.-0.020

NORMAL CROWN

NORMAL CROWN

OH WIRE
STA. 682+60.17
LOW WIRE EL.1076.13'
TEMP. 65 DEG.
1 GUY WIRE

OH WIRE
STA. 684+30.21
LOW WIRE EL.1075.73'
TEMP. 65 DEG.
1 POWER

OH WIRE
STA. 685+73.90
LOW WIRE EL.1078.29'
TEMP. 65 DEG.
1 POWER

EX. SA M/H
STA. 683+06.83
102.26' (LT)
TOP 1065.08
INVERT 1063.21

RT 51 #12

LT 52 #12

LT 53 #12

LT 54 #14

RT 55 #28

RT 56 #28

RT 61 #28

RT 62 #12

RT 63 #12

LT 64 #28

LT 58 EW

VC = 250.00'
K = 98
V = 50 MPH

OH WIRE
STA. 689+19.49
LOW WIRE EL.1057.63'
TEMP. 65 DEG.
1 POWER

OH WIRE
STA. 693+40.94
LOW WIRE EL.1057.59'
TEMP. 65 DEG.
1 TELEPHONE

OH WIRE
STA. 693+34.92
LOW WIRE EL.1056.09'
TEMP. 65 DEG.
1 GUY WIRE

STA. 693+58.94 SR 52
STA 190+00.00 CASH ST.

XCP-S505 (GPS 67-52-505)
STA. 685+45.56, -44.39'(LT)
N 753041.8696
E 2166251.8942
ELEV 1049.32
ALUM. DISK

XCP-S504 (GPS 67-52-504)
STA. 689+46.32, 9.68'(RT)
N 752653.0888
E 2166370.4382
ELEV 1035.52
ALUM. DISK

XCP-S503 (GPS 67-52-503)
STA. 695+09.83, 11.78'(RT)
N 752111.7638
E 2166520.5898
ELEV 1032.48
ALUM. DISK

VPC 688+72.92 EL. 1039.42

VPI 689+97.92 EL. 1035.61

VPT 691+22.92 EL. 1034.98

PROP. 30" RCP (LT)

PROP. 16" RCP (RT)

8" SA SEWER
STA. 682+75.84

PROP. 30" RCP (LT)

PROP. 30" RCP (CROSS)

PROP. 36" RCP (RT)

PROP. 42" RCP (CROSS OUTLET)

PROP. 18" RCP (RT)

PROP. 18" RCP (LT)

PROP. 18" RCP (RT)

4" FMS

8" W

BEG DIT LT
STA. 684+25.00
EL. 1051.95

VPI LT 685+40.00
EL. 1042.57

END DIT LT
STA. 685+75.00
EL. 1039.97

EXISTING GROUNDLINE AT PROPOSED ℄

GRAVITY WALL LT

BEGIN WALL TOP
STA. 690+00.00
EL. 1036.74

BEGIN WALL BOTTOM
STA. 690+00.00
EL. 1034.24

END WALL TOP
STA. 693+00.00
EL. 1034.04

END WALL BOTTOM
STA. 693+00.00
EL. 1031.54

STA. 687+00.00
142' OF 42" RCP, CATCH BASIN AND ENDWALL
SKEW 90°
ENDWALLS REQD. : TYPE "A" ENDWALL
STD. DWG. NOS. D-PE-1, D-CB-12RB

D.A. = 23.70 AC.
Q50 = 70.42 CFS
Q100 = 77.52 CFS
W.S. ELEV. (50) = N/A
W.S. ELEV. (100) = N/A

STA. 688+94.09
196' OF EXISTING 36" RCP
SKEW 75°48'22"
ENDWALLS REQD. : NONE
STD. DWG. NOS. NONE

D.A. = 1142 AC.
Q50 = 357.9 CFS
Q100 = 405.8 CFS
W.S. ELEV. (50) =
W.S. ELEV. (100) =

1090 1085 1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995

682+50 683+00 683+50 684+00 684+50 685+00 685+50 686+00 686+50 687+00 687+50 688+00 688+50 689+00 689+50 690+00 690+50 691+00 691+50 692+00 692+50 693+00 693+50 694+00 694+50 695+00 695+50

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UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	19
CONST.	2014	APD/NH-52(48)	19

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL

REV. 04-07-14: CHANGED PROPERTY OWNER NAME ON TR. NO. 1.

LEGEND	WETLAND IMPACTS (WTL-13)
	AREA OF TEMPORARY IMPACT = 0.03 AC
	VOLUME OF TEMPORARY IMPACT = 47 C.Y.

THE CONTRACTOR MUST USE EXTREME CAUTION WHILE GRADING IN THE VICINITY OF THE TVA POLE STA. 697+91.36 (LT) AND USE STABILIZING MEASURES TO ENSURE THE POLE DOES NOT LEAN OR TILT. THE BLACK PROTECTIVE COATING (RUST PREVENTATIVE) MUST NOT BE DAMAGED IN ANY WAY. IF BY CHANCE THE SEAL OF THE COATING IS BROKEN, TVA MUST BE CONTACTED AS SOON AS POSSIBLE SO ARRANGEMENTS CAN BE MADE TO REPAIR THE DAMAGED AREA.

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

THOMAS E. AND WIFE ELIZABETH AND EDDIE RAY AND WIFE ELIZABETH

PATRICIA ANN POSTON

207

LIVINGSTON CHOCOLATE, INC.

205

SR-111
PI 221+21.65
N 751,325.8264
E 2,167,058.7560
Δ 31° 06' 54" (LT)
D 4° 00' 00"
R 1,432.39
L 777.87
T 398.79

LIMIT OF CONST.
219+75.00

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076

SR-111 STA. 217+94.30 =
SR52NCHURCH STA. 800+00.00
N 751204.9213
E 2166754.5121

700 800 220

EXISTING PIPE TO BE REPLACED

WTL-13 WTL-17

PRES. R.O.W.

ASPHALT WALKING TRACK

CUT SLOPE FILL SLOPE

SR-111

LIMIT OF PAVE
802+25.00

MATCH LINE STA. 695+50 SEE SHT. NO. 18

S 13° 29' 55" E CELINA HIGHWAY/ SR-52 /ZOLLIE COFFER ROAD

S 13° 18' 40" E

CONC. DITCH 4" FMS 2" G 8" W 12" CMP CP-S502 CP-S501 CP-S500

PROP CONST. ESMT.

N 36° 49' 06" E 78.50'

PC 217+22.87

GRAVEL

POWER SUB - STATION

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127
E 2166750.8076

215

① TENNESSEE VALLEY AUTHORITY

SR-111 STA. 217+90.22 =
SR-52 STA. 704+46.39
N 751203.2127
E 2166750.8076

DANNY H. HILL AND WIFE RUTH HILL

203

202

JAMES DAVIDSON AND WIFE JENNIFER DAVIDSON

LIMIT OF CONST.
215+50.00

N 68° 00' 39" E

WTL-15 WTL-16

CONTROL POINTS						
Point	North	East	Elevation	Feature	Description	Station	Offset
S502	751595.6310	2166621.6113	1029.8700	XCP	GPS67-52-502	700+35.28	34.0283(RT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE & COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 695+50 TO STA. 704+47

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	19A
CONST.	2014	APD/NH-52(48)	19A

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL

REV. 04-07-14: CHANGED PROPERTY OWNER NAME ON TR. NO. 1.

THE CONTRACTOR MUST USE EXTREME CAUTION WHILE GRADING IN THE VICINITY OF THE TVA POLE STA. 697+91.36 (LT) AND USE STABILIZING MEASURES TO ENSURE THE POLE DOES NOT LEAN OR TILT. THE BLACK PROTECTIVE COATING (RUST PREVENTATIVE) MUST NOT BE DAMAGED IN ANY WAY. IF BY CHANCE THE SEAL OF THE COATING IS BROKEN, TVA MUST BE CONTACTED AS SOON AS POSSIBLE SO ARRANGEMENTS CAN BE MADE TO REPAIR THE DAMAGED AREA.

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

THOMAS E., AND WIFE ELIZABETH EDDIE RAY, AND WIFE ELIZABETH

207 PATRICIA ANN POSTON

LIVINGSTON CHOCOLATE, INC.

205

700

800

220

215

202

203

T.V.A EASEMENT

140' U.C.E.M.C. POWER EASEMENT

PRES. R.O.W.

CUT SLOPE

FILL SLOPE

POT 704+46.39

POT 800+00.00

POT 802+50.00

EIP

PROP CONST. ESMT.

MATCH LINE STA. 695+50 SEE SHT. NO. 18A

CP-S502

CP-S501

CP-S500

DANNY H. HILL AND WIFE RUTH HILL

JAMES DAVIDSON AND WIFE JENNIFER DAVIDSON

TENNESSEE VALLEY AUTHORITY

① ②

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127
E 2166750.8076

LIMIT OF CONST.
219+75.00

LIMIT OF CONST.
215+50.00

LIMIT OF PAVE
802+25.00

SR-111 STA. 217+94.30 =
SR52NCHURCH STA. 800+00.00
N 751204.9213
E 2166754.5121

SR-111 STA. 217+90.22 =
SR-52 STA. 704+46.39
N 751203.2127
E 2166750.8076

CONTROL POINTS							
Point	North	East	Elevation	Feature	Description	Station	Offset
S502	751595.6310	2166621.6113	1029.8700	XCP	GPS67-52-502	700+35.28	34.0283(RT)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106473
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 695+50 TO STA. 704+47

SCALE: 1"= 50'

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

LEGEND	WETLAND IMPACTS (WTL-13)
	AREA OF TEMPORARY IMPACT = 0.03 AC
	VOLUME OF TEMPORARY IMPACT = 47 C.Y.

NOTES:

SEE SHEETS 28-28J FOR TEMP. WETLAND IMPACT DETAILS

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO PROTECT NON-IMPACTED PORTIONS OF WETLANDS FROM DISTURBANCES

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

THE CONTRACTOR MUST USE EXTREME CAUTION WHILE GRADING IN THE VICINITY OF THE TVA POLE STA. 697+91.36 (LT) AND USE STABILIZING MEASURES TO ENSURE THE POLE DOES NOT LEAN OR TILT. THE BLACK PROTECTIVE COATING (RUST PREVENTATIVE) MUST NOT BE DAMAGED IN ANY WAY. IF BY CHANCE THE SEAL OF THE COATING IS BROKEN, TVA MUST BE CONTACTED AS SOON AS POSSIBLE SO ARRANGEMENTS CAN BE MADE TO REPAIR THE DAMAGED AREA.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	19B
CONST.	2014	APD/NH-52(48)	19B

REV. 12-07-12: ADJUSTED LT. SHOULDER WIDTH, SHIFTED DRAINAGE & ADJUSTED CATCH BASIN ELEVATIONS

SR-111
PI 221+21.65
N 751,325.8264
E 2,167,058.7560
Δ 31° 06′ 54″ (LT)
D 4° 00′ 00″
R 1,432.39
L 777.87
T 398.79

POT 704+46.39

LIMIT OF CONST.
219+75.00

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076

SR-111 STA. 217+94.30 =
SR52NCHURCH STA. 800+00.00
N 751204.9213
E 2166754.5121

END DIT
STA. 219+75.00
OFFSET -56.00′

74 EW — INV. 1022.28

CLASS B RIPRAP APRON
9′Wx27′Wx24′Lx2.5′D

BEGIN DIT
STA. 219+00.00
OFFSET -60.00′

PROPOSED SIGNAL POLE #2
STA. 703+32.00 OFF 71.80′ LT.

4″ SLOPING CURB REQUIRED WHERE GUARDRAIL PRESENT

65 #28 — GT. EL. 1031.18, IN. EL. 1027.08, OUT.EL. 1026.91

68 #28 — GT. EL. 1029.78, IN. EL. 1025.53, OUT.EL. 1025.36

73 #29 — GT. EL. 1029.63, IN. EL. 1023.89, IN. EL. 1023.89, IN. EL. 1022.93, OUT.EL. 1022.39

END C&G (4″ SLOPING CURB)
STA. 702+98.00
OFFSET -40.00′

72 #28 — GT. EL. 1029.78, OUT.EL. 1026.21

END GUARDRAIL
STA. 702+51.50
OFFSET -41.00′

TYPE 38

WTL-13

219+75.00
34.02′

219+75.00
15.40′

POT 800+00.00

800

700

220

215

POT 802+50.00

WTL-17

PROPOSED SIGNAL POLE #3
STA. 800+65.00 OFF 98.70′ LT.

802+25.00
35.72′

65′ RADIUS

LIMIT OF PAVE
802+25.00

802+25.00
12.08′

55′ RADIUS

PROPOSED SIGNAL POLE #4
STA. 800+97.80 OFF 70.50′ RT.

WTL-16

215+50.00
29.01′

215+50.00
18.58′

BEGIN DIT
STA. 216+85.00
OFFSET -52.00′

END DIT
STA. 217+35.00
OFFSET -71.00′

END DIT
STA. 703+85.00
OFFSET 65.00′

END C&G
STA. 703+38.00
OFFSET 42.00′

BEGIN DIT
STA. 702+85.00
OFFSET 57.00′

PC 217+22.87

PROPOSED SIGNAL POLE #1
STA. 703+60.20 OFF 76.40′ RT.

71 EW — INV. 1029.98

70 #12 — GT. EL. 1029.78, IN. EL. 1025.69, OUT.EL. 1025.19

69 #14 — GT. EL. 1029.63, IN. EL. 1024.32, IN. EL. 1023.65, OUT.EL. 1023.32

66 #12 — GT. EL. 1031.18, IN. EL. 1026.79, OUT.EL. 1026.29

67 #12 — GT. EL. 1029.78, IN. EL. 1024.90, OUT.EL. 1023.90

BEGIN RET. WALL
STA. 696+00.00
OFFSET 47.00′

END RET. WALL
STA. 698+75.00
OFFSET 47.00′

15′ RADIUS BOTH SIDES

15′ RADIUS BOTH SIDES

GRAVEL

LIMIT OF CONST.
1+60.00

LIMIT OF CONST.
1+20.00

STA. 699+08.09
16′ PVT. DR.

STA. 695+74.19
14′ BUS. ENT.

MATCH LINE STA. 695+50 SEE SHT. NO. 18B

S 13° 29′ 55″ E

CELINA HIGHWAY/ SR-52 /ZOLLIE COFFER ROAD

S 13° 18′ 40″ E

N 68° 56′ 00″ E

18″ ST — 24″ ST — 36″ ST — 60″ ST

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127
E 2166750.8076

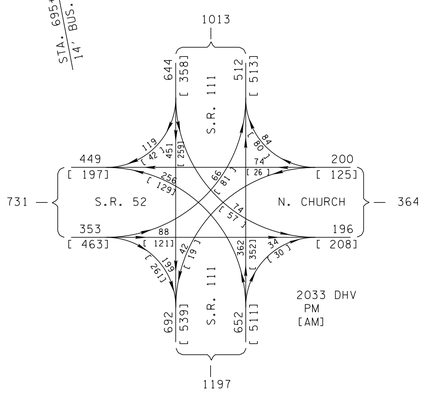
SR-111 STA. 217+90.22 =
SR-52 STA. 704+46.39
N 751203.2127
E 2166750.8076

LIMIT OF CONST.
215+50.00

WTL-14

WTL-15

WTL-16



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 695+50 TO STA. 704+47

SCALE: 1″= 50′

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	19C
CONST.	2014	APD/NH-52(48)	19C

NORMAL CROWN
NORMAL CROWN

703+98.26 MATCH SR-111 GRADE
703+98.26 MATCH SR-111 GRADE

67002-3233-64
END PROJ. NO. APD-52(48) CONST.
STA. 704+47.02

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+47.02

VC = 175.00'
K = 97
V = 50 MPH

OH WIRE
STA. 701+57.32
LOW WIRE EL.1071.75'
TEMP.65 DEG.
1 POWER

OH WIRE
STA. 703+64.80
LOW WIRE EL.1055.23'
TEMP. 65 DEG.
1 POWER

VPC 699+34.59
EL. 1030.93

VPI 700+22.09
EL. 1030.49

VPT 701+09.59
EL. 1031.63

VPC 702+85.69
EL. 1033.92

VPI 703+40.69
EL. 1034.63

VPT 703+95.69
EL. 1034.63

VPI 703+98.26
EL. 1034.63

STA. 704+47.02 SR 52
STA 217+90.22 SR 111

BEGIN RET. WALL
STA. 696+00.00
ELE. 1039.00

RT 66 #12
LT 65 #28

END RET. WALL
STA. 698+75.00
ELE. 1038.00
WALL 1 RT

LT 68 #28
RT 67 #12
LT 73 #29
RT 69 #14
RT 70 #12
LT 72 #28

EX. SAM/H
TOP-1043.08
INV-1038.77

RT 71 EW

1.30%
0.00%
0.50%
1.30%
0.50%

PROP. 18" RCP (LT)
PROP. 24" RCP (RT)
PROP. 36" RCP (RT)
PROP. 18" RCP (LT)
TO BE REMOVED

EXISTING GROUNDLINE
AT PROPOSED ℄
END RET. WALL
STA. 698+75.00
ELE. 1028.58

LT 74 EW

PROP. 24" RCP (RT)
PROP. 18" RCP (LT)
PROP. 36" RCP (CROSS)
PROP. 36" RCP (OUTLET LT)

XCP-S502 (GPS 67-52-502)
STA. 700+35.28, 34.03'(RT)
N 751595.6310
E 2166621.6113
ELEV 1029.87
ALUM. DISK

BEG DIT RT
STA. 702+85.00
EL. 1029.97

END DIT RT
STA. 703+85.00
EL. 1030.47

VC = 110.00'
K = 84
V = 50 MPH

STA 706+11.24
EXISTING 36"RCP
SKEW 89° 30' 11" LT
FLOWS LEFT
INLET 1021.1350
OUTLET 1021.1010

BEGIN RET. WALL
STA. 696+00.00
ELE. 1029.95

STA. 699+85.00
99' OF 36" RCP, CATCH BASINS ENDWALL
SKEW 90°
ENDWALLS REQD. : TYPE "A" ENDWALL
STD. DWG. NOS. D-PE-1, D-CB-14S, D-CB-14RB

D.A. = 6.6 AC.
Q50 = 31.55 CFS
Q100 = 34.61 CFS
W.S. ELEV. (50) = N/A
W.S. ELEV. (100) = N/A

STA 699+87.49
EXISTING 18"RCP
SKEW 89° 34' 47" LT
FLOWS LEFT
INLET 1026.7490
OUTLET 1025.1560

695+50 696+00 696+50 697+00 697+50 698+00 698+50 699+00 699+50 700+00 700+50 701+00 701+50 702+00 702+50 703+00 703+50 704+00 704+50 705+00 705+00 706+00 706+50 707+00 707+50 708+00 708+50

1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985

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KATHERINE J. LLOYD
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STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
COMMERCE
NO. 109475
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 695+50 TO STA. 704+47

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	20
CONST.	2014	APD/NH-52(48)	20

SR-111

SR-52 NORTH CHURCH

215+50.00 MATCH EXIST LT
TRANSITION
217+28.59 LT-0.020
TRANSITION
218+00.00 LT-0.007
TRANSITION
215+50.00 MATCH EXIST LT
800+69.67 MATCH SR-111 GRADE
TRANSITION
802+25.00 MATCH EXIST LT

215+50.00 MATCH EXIST RT
TRANSITION
216+37.03 RT-0.020
TRANSITION
218+00.00 RT-0.007
TRANSITION
215+50.00 MATCH EXIST RT
800+69.67 MATCH SR-111 GRADE
TRANSITION
802+25.00 MATCH EXIST RT

OH WIRE
STA. 217+42.66
LOW WIRE EL.1055.28'
TEMP. 65 DEG.
1 POWER

OH WIRE
STA. 218+57.33
LOW WIRE EL.1056.07'
TEMP. 65 DEG.
1 POWER

VC = 85.00'
K = 96
V = 50 MPH

VPI 215+50.00
EL. 1034.11

VPC 216+50.57
EL. 1034.76

VPI 217+43.07
EL. 1035.35

VPT 218+35.57
EL. 1034.80

VPI 219+75.00
EL. 1033.96

VPI 800+69.67
EL. 1035.31

VPC 801+18.28
EL. 1035.31

VPT 802+03.28
EL. 1035.68

VPI 802+25.00
EL. 1035.87

LIMIT OF CONST.
STA. 215+50.00

LIMIT OF CONST.
STA. 219+75.00

LIMIT OF CONST.
STA. 802+25.00

FG EL. 1034.98

0.64%
-0.60%
0.005
0.00%
0.88%
-0.50%
-3.83%

BEGIN DIT LT
STA. 216+85.00
EL. 1030.74

END DIT LT
STA. 217+35.00
EL. 1030.47

BEGIN DIT LT
STA. 219+00.00
EL. 1031.58

END DIT LT
STA. 219+75.00
EL. 1028.70

VPI 801+60.78
EL. 1035.31

STA. 217+90.22 SR 111
STA. 704+46.39 SR 52

VC = 185.00'
K = 149
V = 55 MPH

STA. 217+94.30 SR 111
STA. 800+00.00 SR 52
NORTH CHURCH

1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985

214+50 215+00 215+50 216+00 216+50 217+00 217+50 218+00 218+50 219+00 219+50 220+00 220+50 221+00 221+50

800+00 800+50 801+00 801+50 802+00 802+50 803+00

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KATHERINE J. LLOYD
REGISTERED ENGINEER
No. 106473
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILES OF S.R. 111 & S.R. 52 N. CHURCH

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	20A
CONST.	2014	APD/NH-52(48)	20A

EAST CEDAR LANE
RT. STA. 519+69.21

WEST CEDAR LANE
LT. STA. 519+69.21

ANDREW COVE ROAD
RT. STA. 528+65.03

STA. 22+08.57
64' OF 18" RCP WITH ENDWALLS
SKEW 61°17'59"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-3B(1)&(2)

D.A. = 1.10 AC.
Q50 = 6.83 CFS
Q100 = 7.46 CFS
W.S. ELEV. (50) = 1387.30
W.S. ELEV. (100) = 1387.41

STA. 10+65.99
45' OF 24" RCP WITH ENDWALLS
SKEW 73°28'51"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-3B(1)&(2)

D.A. = 3.29 AC.
Q50 = 10.58 CFS
Q100 = 11.53 CFS
W.S. ELEV. (50) = 1392.51
W.S. ELEV. (100) = 1392.45

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DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	20B
CONST.	2014	APD/NH-52(48)	20B

OLD S.R. 52
LT. STA. 528+65.03

TOWER HILL ROAD
LT. STA. 530+40.86

40+50.00 MATCH EXIST LT
40+50.00 MATCH EXIST RT
TRANSITION
TRANSITION
42+35.24 LT 0.036
42+35.24 RT-0.036
TRANSITION
TRANSITION
43+16.34 MATCH SR-52 GRADE
43+16.34 MATCH SR-52 GRADE
50+30.00 MATCH SR-52 GRADE
50+30.00 MATCH SR-52 GRADE
50+53.59 LT-0.029
50+53.59 RT 0.029
FULL SUPER
50+86.45 RT 0.029
FULL SUPER TRANSITION
51+55.00 LT-0.029
TRANSITION
52+00.00 MATCH EXIST LT
52+00.00 MATCH EXIST RT

OH WIRE
STA. 40+70.00
LOW WIRE EL.1405.81'
TEMP. 65 DEG.
1 POWER
1 TELEPHONE
1 CABLE

VC = 120.00'
K = 61
V = 35 MPH

VC = 105.00'
K = 10
V = 15 MPH

VC = 25.00'
K = 3
V = 15 MPH

VC = 40.00'
K = 12
V = 25 MPH

VPI 40+50.00
EL. 1381.03
VPC 40+52.10
EL. 1381.06

VPT 41+72.10
EL. 1383.71

VPC 42+46.34
EL. 1386.07
VPI 42+66.34
EL. 1386.71
VPT 42+86.34
EL. 1386.71

VPI 43+16.34
EL. 1386.71

VPI 50+30.00
EL. 1385.65

VPC 50+60.00
EL. 1385.65

VPT 51+65.00
EL. 1391.06
VPC 51+72.50
EL. 1391.83

VPI 51+85.00
EL. 1393.12

VPT 51+97.50
EL. 1393.51
VPI 52+00.00
EL. 1393.58

VPI 51+12.50
EL. 1385.65

VPI 41+12.10
EL. 1381.81

BEGIN DIT LT
STA. 41+00.00
EL. 1376.64

VPI 41+05.77
EL 1376.67

VPI 41+45.50
EL. 1380.30

END DIT LT
STA. 41+80.00
EL. 1381.92

BEGIN DIT LT
STA. 42+50.00
EL. 1384.17

BEGIN DIT RT
STA. 42+50.00
EL. 1383.23

END DIT RT
STA. 42+60.00
EL. 1382.50

END DIT RT
STA. 42+85.00
EL. 1381.94

LIMIT OF CONST.
STA. 40+50.00

LIMIT OF CONST.
STA. 52+00.00

FG EL. 1387.31

1.24%
3.18%
3.80%
-7.60%
-0.50%
6.37%
0.00%
0.020
-0.020
0.00%
3.12%
10.29%

10 #13
11 #13
9 EW RT
12 EW LT

SEE CULVERT XS FOR DETAILS

STA. 50+65.84
37' OF 18" RCP WITH CATCHBASINS AND ENDWALLS
SKEW 84°59'17"
ENDWALLS REQD. : TYPE "U" ENDWALL
STD. DWG. NOS. D-PE-3B(1)&(2), D-CB-13RA

D.A. = 1.23 AC.
Q50 = 4.70 CFS
Q100 = 5.17 CFS
W.S. ELEV. (50) = 1382.58
W.S. ELEV. (100) = 1382.66

40+00 41+00 42+00 43+00 44+00 50+00 51+00 52+00 53+00 54+00 55+00

1445 1440 1435 1430 1425 1420 1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365 1360 1355 1350

0

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI AGRICULTURE 47 OMAHA
NO. 106429
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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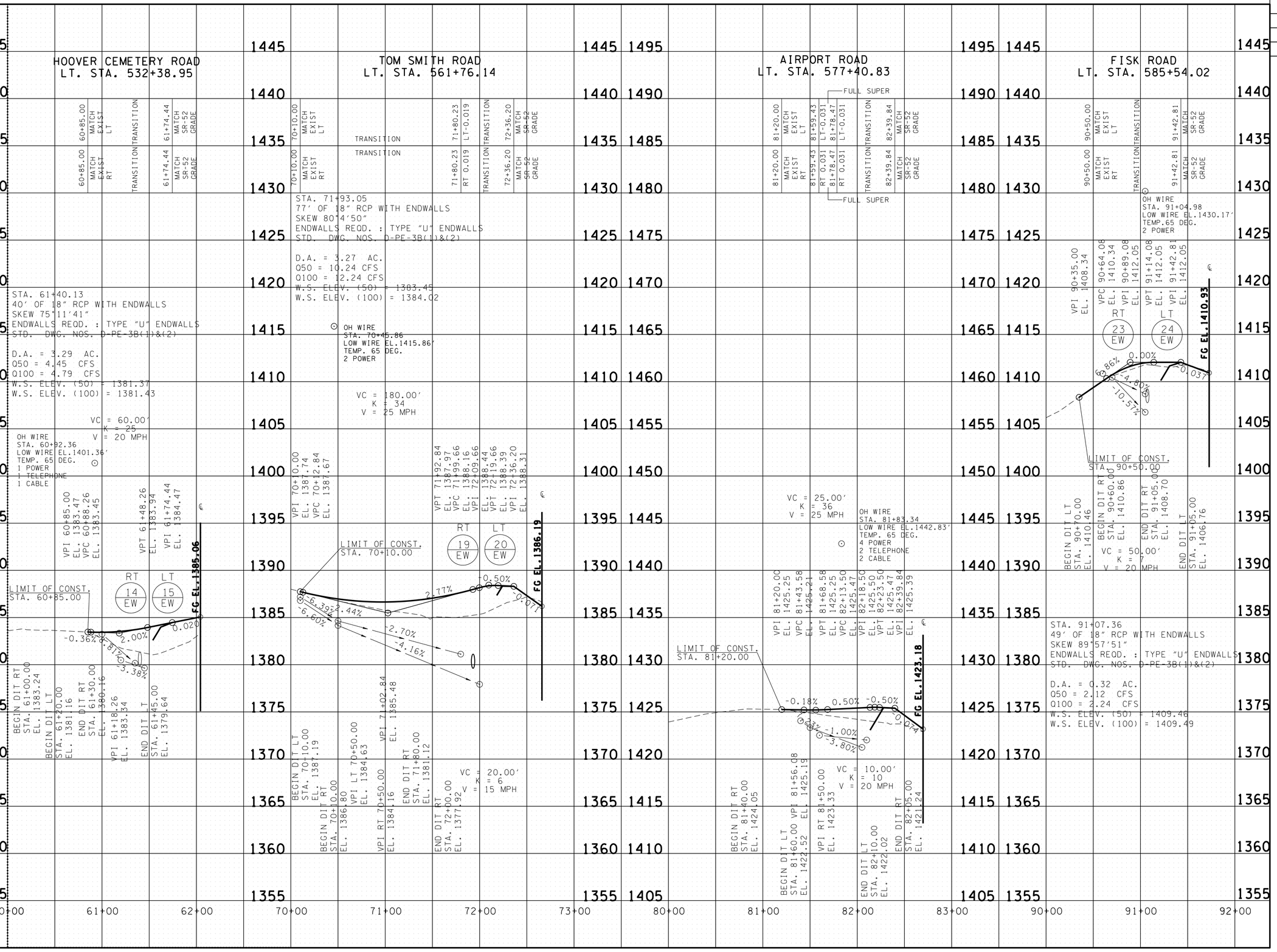
TENNESSEE D.O.T.

DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	20C
CONST.	2014	APD/NH-52(48)	20C



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PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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TENNESSEE D.O.T.
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FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	20D
CONST.	2014	APD/NH-52(48)	20D

OLD ALLONS ROAD
LT. STA. 596+86.45

100+50.00 MATCH EXIST LT
TRANSITION
100+50.00 MATCH EXIST RT
100+89.61 RT-0.020
TRANSITION
101+60.20 RT-0.063
100+50.00 LT 0.063
TRANSITION
100+50.00 LT-0.080
100+50.00 RT 0.080
TRANSITION
TRANSITION
103+51.87 MATCH SR-52 GRADE
MATCH SR-52 GRADE

STA. 103+25.54
74' OF 38"X24" OVAL RCP WITH ENDWALLS
SKEW 70°33'53"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-3B(1)&(2)

D.A. = 6.33 AC.
Q50 = 32.28 CFS
Q100 = 35.22 CFS
W.S. ELEV. (50) = 1375.60
W.S. ELEV. (100) = 1375.89

STA. 101+32.57 OLD ALLONS RD.=
STA. 23+37.20 SAVAGE LN.

VPI 100+50.00 EL. 1390.53
VPC 100+70.08 EL. 1390.39
BEGIN DIT LT STA. 100+50.00 EL. 1390.18
BEGIN DIT RT STA. 100+65.00 EL. 1389.48
END DIT RT STA. 100+95.00 EL. 1386.20
VPI 101+50.08 EL. 1389.84
BEGIN DIT RT STA. 101+50.00 EL. 1384.64
VPI LT 101+50.00 EL. 1385.06
VPT 102+30.08 EL. 1382.64
VPC 102+89.21 EL. 1381.82
VPI RT 102+75.00 EL. 1376.84
VPI 102+89.21 EL. 1377.32
END DIT LT STA. 102+85.00 EL. 1371.41
VPT 103+39.21 EL. 1377.77
VPI 103+51.87 EL. 1377.88
END DIT RT STA. 103+30.00 EL. 1372.72

OH WIRE
STA. 101+82.19
LOW WIRE EL.1404.98'
TEMP. 65 DEG.
2 POWER
4 TELEPHONE

VC = 100.00'
K = 10
V = 15 MPH
RT 27 EW
LT 28 EW

VC = 160.00'
K = 19
V = 30 MPH

-0.69%
-5.12%
-10.04%
-9.00%
-6.24%
-10.11%
-7.49%
0.90%
0.079
FG EL.1381.23
LIMIT OF CONST. STA. 100+50.00

SAVAGE LANE
RT. OLD ALLONS RD. STA. 101+32.57

21+50.00 MATCH EXIST LT
TRANSITION
21+50.00 MATCH EXIST RT
TRANSITION
23+25.67 MATCH OLD ALLONS GRADE
23+25.67 MATCH OLD ALLONS GRADE

STA. 22+90.00
28' OF 18" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-4

D.A. = 1.62 AC.
Q50 = 5.96 CFS
Q100 = 6.45 CFS
W.S. ELEV. (50) = 1387.61
W.S. ELEV. (100) = 1387.14

OH WIRE
STA. 21+81.88
LOW WIRE EL.1410.29'
TEMP. 65 DEG.
4 POWER
3 TELEPHONE
1 CABLE

VPI 21+50.00 EL. 1394.42
VC = 45.00'
K = 10
V = 15 MPH
VPC 22+62.01 EL. 1389.50
VPT 23+07.01 EL. 1388.51
VPI 23+25.67 EL. 1388.51
FG EL. 1388.84
RT 25 EW
LT 26 EW
-9.60%
-8.42%
-4.99%
0.00%
-6.55%
-1.78%
0.00%
-0.50%
LIMIT OF CONST. STA. 21+50.00

BEGIN DIT LT STA. 21+50.00 EL. 1394.49
BEGIN DIT RT STA. 21+50.00 EL. 1394.63
END DIT RT STA. 22+00.00 EL. 1390.33
END DIT LT STA. 22+00.00 EL. 1390.28
BEGIN DIT RT STA. 22+50.00 EL. 1387.93
BEGIN DIT LT STA. 22+50.00 EL. 1388.22
VPI 22+84.51 EL. 1388.51
VPI RT 22+90.00 EL. 1384.82
VPI LT 22+90.00 EL. 1385.60
END DIT RT STA. 23+20.00 EL. 1384.64
END DIT LT STA. 22+90.00 EL. 1386.10

100+00 101+00 102+00 103+00 104+00 105+00 21+00 22+00 23+00 24+00 25+00

0

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SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV AGRICULTURE OF COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	20E
CONST.	2014	APD/NH-52(48)	20E

ELMER LANGFORD ROAD
RT. STA. 599+08.30

110+29.86 MATCH SR-52 GRADE — TRANSITION — 111+26.00 LT 0.018 — 111+50.00 MATCH EXIST LT

110+29.86 MATCH SR-52 GRADE — TRANSITION — 111+26.00 RT-0.018 — 111+50.00 MATCH EXIST RT

STA. 110+65.03
55' OF 18" RCP WITH ENDWALLS
SKEW 86°37'57"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-3B(1)&(2)

D.A. = 0.53 AC.
Q50 = 2.25 CFS
Q100 = 2.37 CFS
W.S. ELEV. (50) = 1372.02
W.S. ELEV. (100) = 1372.05

VC = 35.00'
K = 17
V = 20 MPH

OH WIRE
STA. 111+56.05
LOW WIRE EL.1398.01'
TEMP. 65 DEC.
2 POWER
1 TELEPHONE

RT 29 EW — LT 30 EW

VPI 110+29.86 EL. 1374.20
VPC 110+57.01 EL. 1374.48
VPT 110+92.01 EL. 1375.18

VPC 111+25.07 EL. 1376.17 VPI 111+35.07 EL. 1376.47
VPT 111+45.07 EL. 1376.67 VPI 111+50.00 EL. 1376.77

LIMIT OF CONST
STA. 111+50.00

FG EL.1371.84

0.07% 1.00% 3.00% 2.04% 1.24% 9.59%

VPI 110+74.51 EL. 1374.65
BEGIN DIT LT STA. 110+65.00 EL. 1368.78
BEGIN DIT RT STA. 110+70.00 EL. 1371.23
END DIT RT STA. 111+50.00 EL. 1377.02
END DIT LT STA. 111+50.00 EL. 1376.93

VC = 20.00'
K = 20
V = 30 MPH

OLD ALLONS ROAD 2
LT. STA. 608+00.77

120+50.00 MATCH EXIST LT — TRANSITION — 121+38.01 LT-0.049 — 121+56.48 LT-0.049 — TRANSITION — 122+36.29 MATCH SR-52 GRADE

120+50.00 MATCH EXIST RT — TRANSITION — 121+38.01 RT 0.049 — 121+56.48 RT 0.049 — TRANSITION — 122+36.29 MATCH SR-52 GRADE

FULL SUPER

FULL SUPER

STA. 121+48.22
135' OF 24" RCP
SKEW 80°53'28"
ENDWALLS REQD. : NONE
STD. DWG. NOS. NONE

D.A. = 16.47 AC.
Q50 = 59.83 CFS
Q100 = 65.66 CFS
W.S. ELEV. (50) = 1324.78
W.S. ELEV. (100) = 1328.17

VC = 80.00'
K = 10
V = 15 MPH

VPI 120+50.00 EL. 1338.53

VPC 121+33.26 EL. 1331.96

RT 31 EW — LT 32 EW

VPT 122+13.26 EL. 1328.81
VPI 122+36.29 EL. 1328.81

LIMIT OF CONST
STA. 120+50.00

FG EL.1327.69

1.89% 0.00% 0.038 6.44% 9.58%

BEGIN DIT RT STA. 121+50.00 EL. 1328.61
BEGIN DIT LT STA. 121+50.00 EL. 1328.10
VPI 121+73.26 EL. 1328.81
END DIT RT STA. 122+00.00 EL. 1325.44
END DIT LT STA. 122+00.00 EL. 1323.31

110+00 111+00 112+00 120+00 121+00 122+00 123+00

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OVERTON
NO. 106425
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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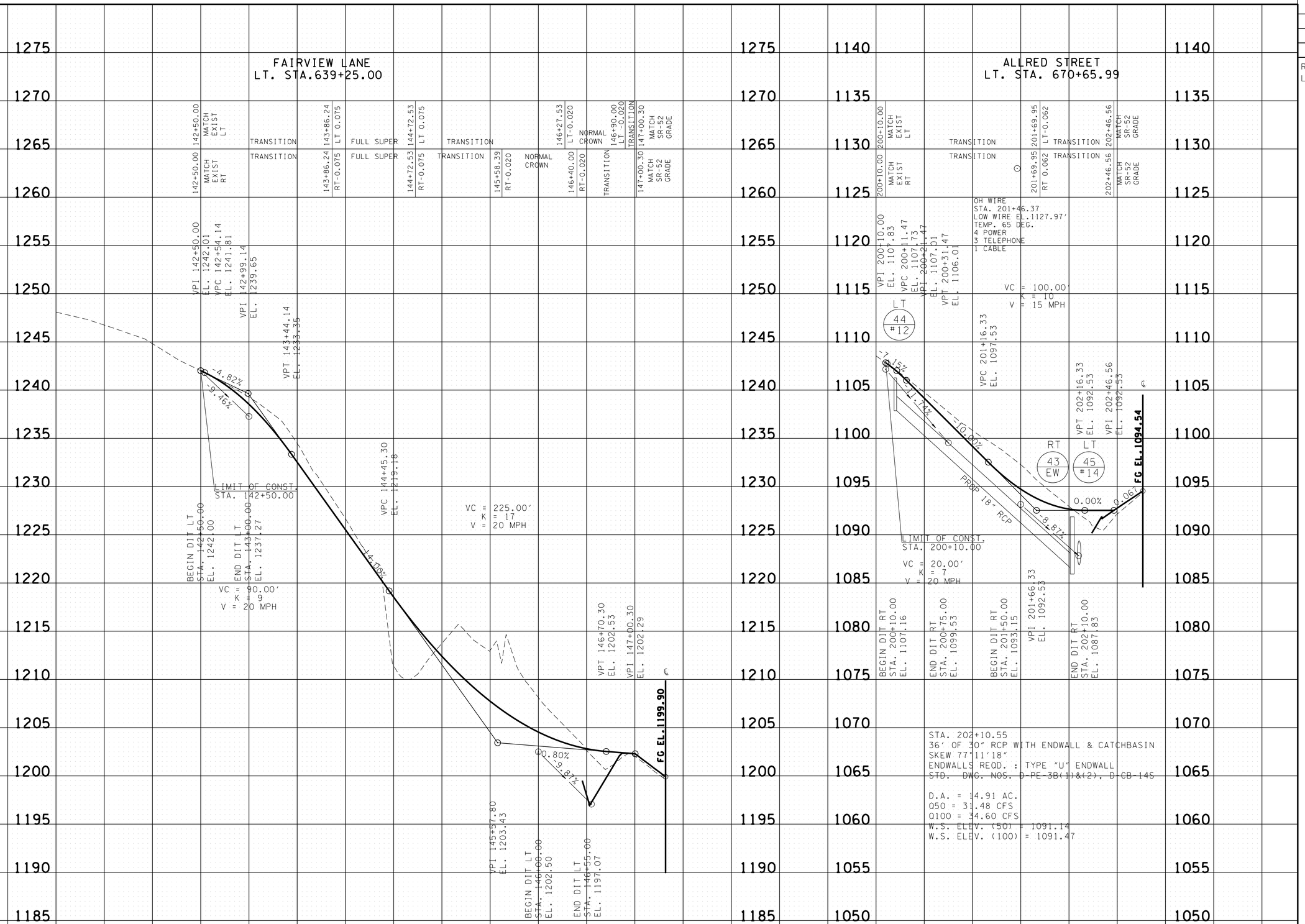
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	20F
CONST.	2014	APD/NH-52(48)	20F

REV. 07-15-13: ADJUSTED FAIRVIEW LN. PROFILE FOR RE-ALIGNMENT



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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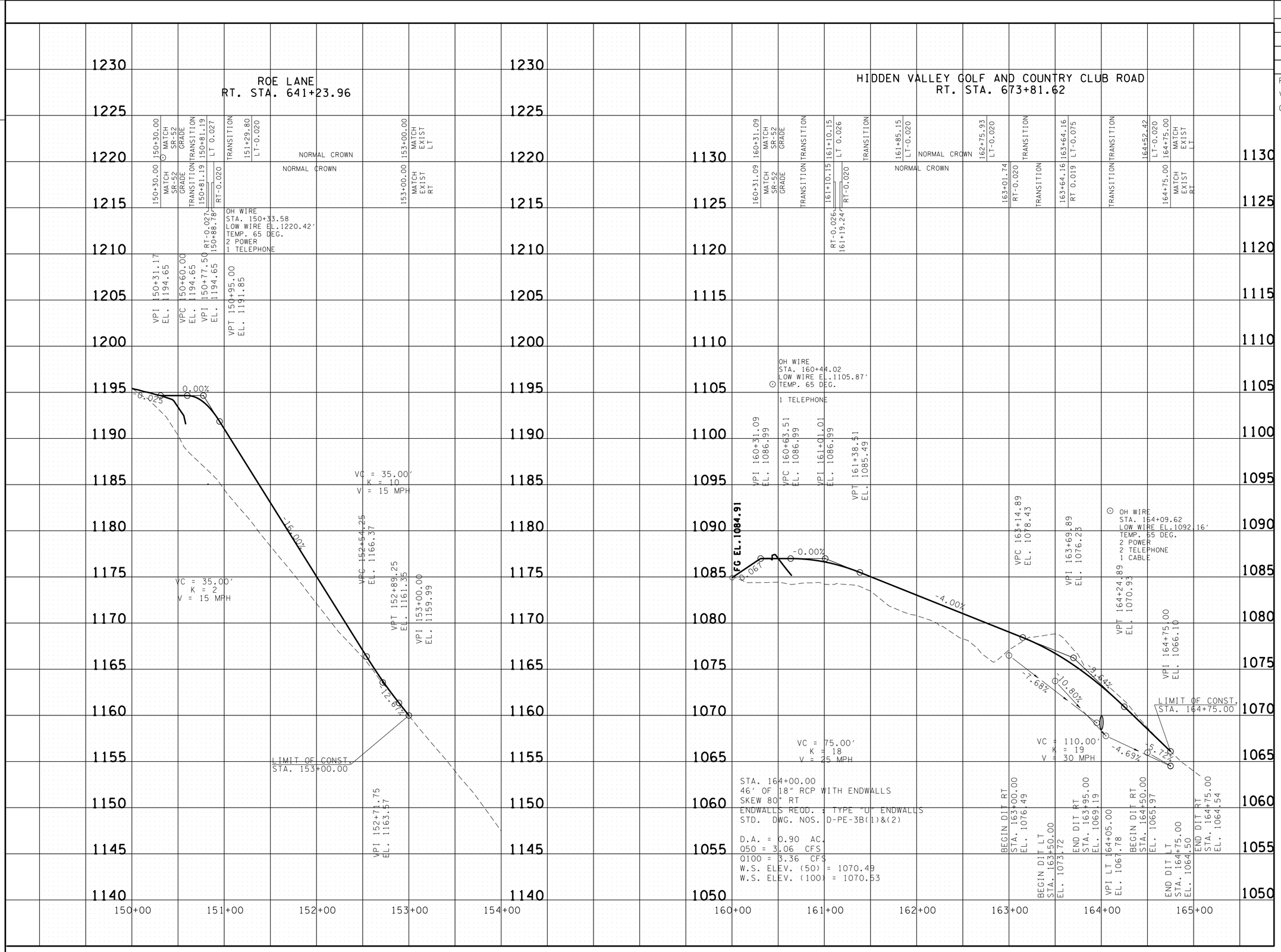
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	20G
CONST.	2014	APD/NH-52(48)	20G

REV. 07-15-13: ADJUSTED HIDDEN VALLEY LN. PROFILE AND ADDED CROSS DRAIN STA. 164+00.00



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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
&
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	20H
CONST.	2014	APD/NH-52(48)	20H

TOWER HILL ROAD 2
RT. STA. 680+11.94

170+30.27 MATCH SR-52 GRADE

TRANSITION

171+20.00 MATCH EXIST LT

171+20.00 MATCH EXIST RT

VPI 170+30.27
EL. 1065.43

VPC 170+67.20
EL. 1065.43
VPI 170+92.20
EL. 1065.43

VPT 171+17.20
EL. 1063.72
VPI 171+20.00
EL. 1063.53

FG EL. 1065.66

0.00%

-0.008

6.84%

LIMIT OF CONST.
STA. 171+20.00

VC = 50.00'
K = 7
V = 20 MPH

CASH STREET
RT. STA. 693+58.94

190+30.61 MATCH SR-52 GRADE

190+65.00 LT-0.020

NORMAL CROWN

191+07.03 LT-0.020

TRANSITION

191+71.89 RT-0.020

TRANSITION 192+00.00

192+00.00 MATCH EXIST LT

190+30.61 MATCH SR-52 GRADE

190+65.00 RT-0.020

NORMAL CROWN

192+00.00 MATCH EXIST RT

OH WIRE
STA. 190+30.69
LOW WIRE EL.1059.27'
TEMP. 65 DEG.
4 POWER
2 TELEPHONE
2 CABLE

VC = 70.00'
K = 17
V = 20 MPH

VPI 190+30.61
EL. 1033.19

VPC 190+60.61
EL. 1033.19
VPI 190+75.61
EL. 1033.19
VPT 190+90.61
EL. 1032.44

VPC 191+05.00
EL. 1031.72

VPT 191+75.00
EL. 1029.62
VPI 192+00.00
EL. 1029.37

FG EL. 1033.78

0.00%

-0.020

-5.00%

-0.99%

4" FMS

4" FMS

4" FMS

LIMIT OF CONST.
STA. 191+15.00

VC = 30.00'
K = 6
V = 15 MPH

VPI 191+40.00
EL. 1029.97

LIMIT OF PAVE
STA. 192+00.00

170+00 171+00 172+00 190+00 191+00 192+00 193+00 194+00

0

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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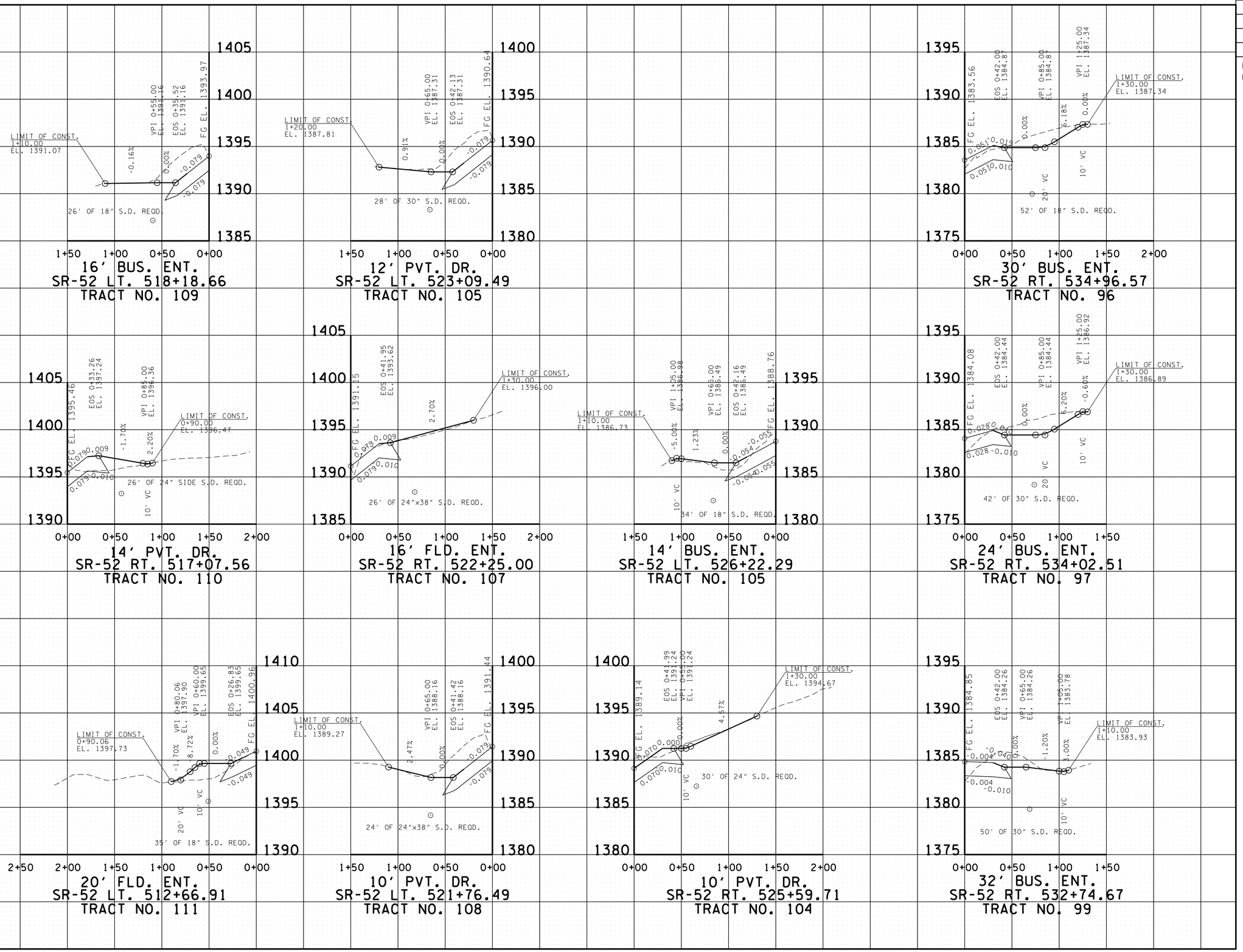
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	21
CONST.	2014	APD/NH-52(48)	21

REV. 09-10-13: REMOVED PVT. DR. PROFILE STA. 531+90.03



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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

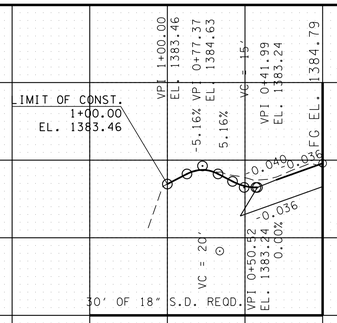
PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

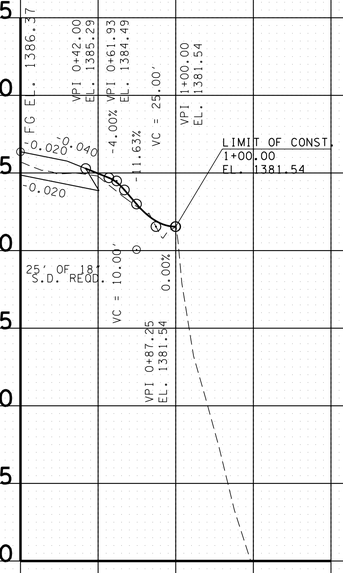
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	21A
CONST.	2014	APD/NH-52(48)	21A

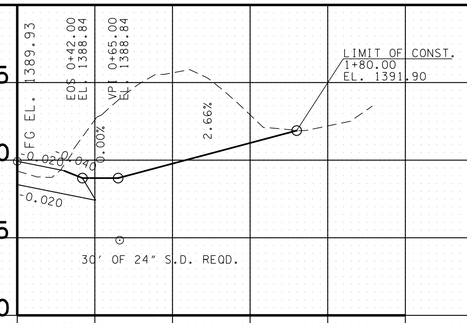
REV. 1-21-15: CHANGED PVT. DRIVE STA'S. 546+70.67 AND 549+11.05 TO 12' WIDTH. ADDED SPLIT TO FIELD ENT. STA. 545+41.28.



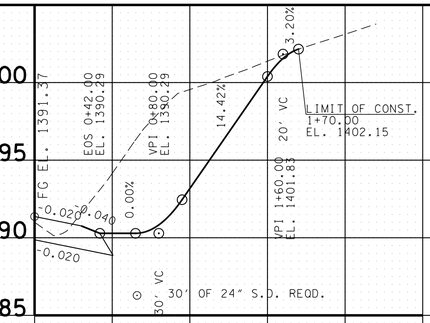
12' PVT. DR.
SR-52 LT. 538+15.58
TRACT NO. 94



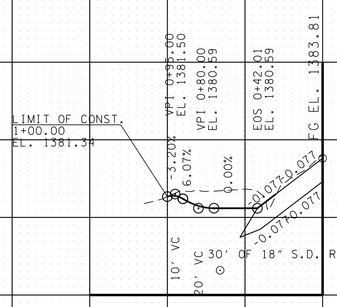
10' PVT. DR.
SR-52 RT. 540+77.43
TRACT NO. 93



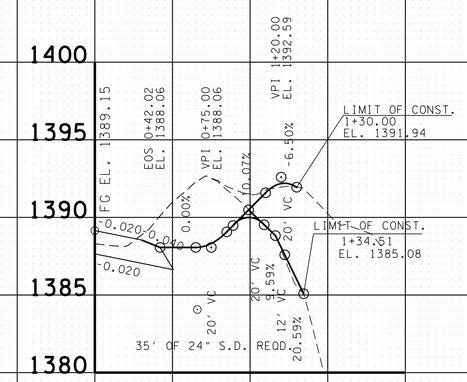
12' PVT. DR.
SR-52 RT. 546+70.67
TRACT NO. 91



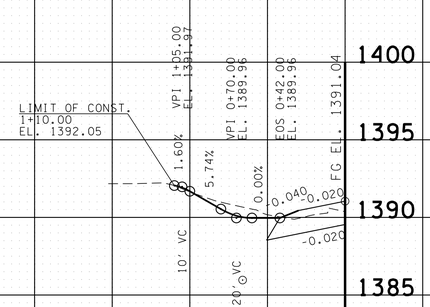
12' PVT. DR.
SR-52 RT. 549+11.05
TRACT NO. 91



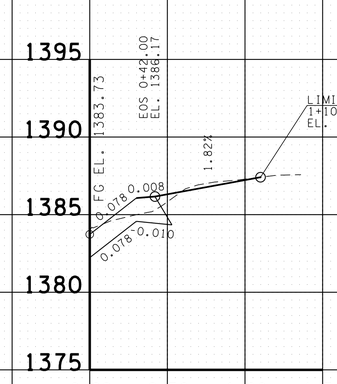
12' PVT. DR.
SR-52 LT. 536+50.80
TRACT NO. 95



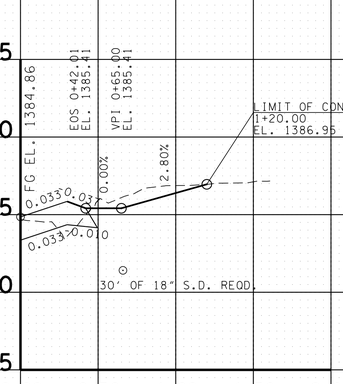
16' SPLIT FLD. ENT.
SR-52 RT. 545+41.28
TRACT NO. 91



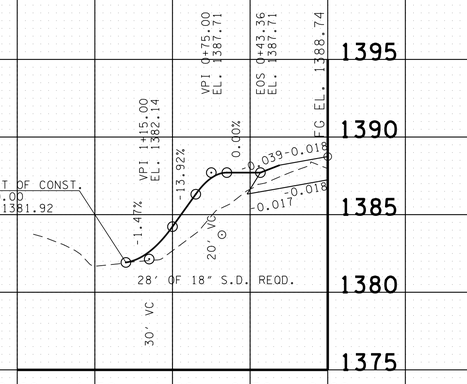
40' BUS. ENT.
SR-52 LT. 548+56.88
TRACT NO. 90



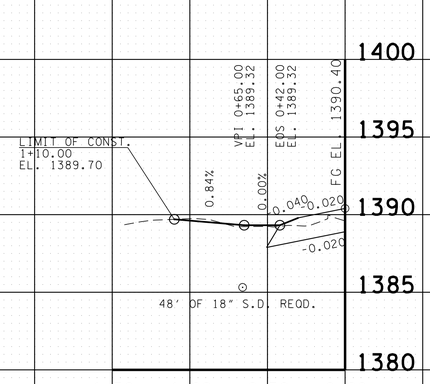
30' BUS. ENT.
SR-52 RT. 536+38.00
TRACT NO. 96



12' PVT. DR.
SR-52 RT. 538+25.68
TRACT NO. 96



12' FLD. ENT.
SR-52 LT. 544+73.41
TRACT NO. 90



30' FLD. ENT.
SR-52 LT. 547+49.58
TRACT NO. 90

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PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

0

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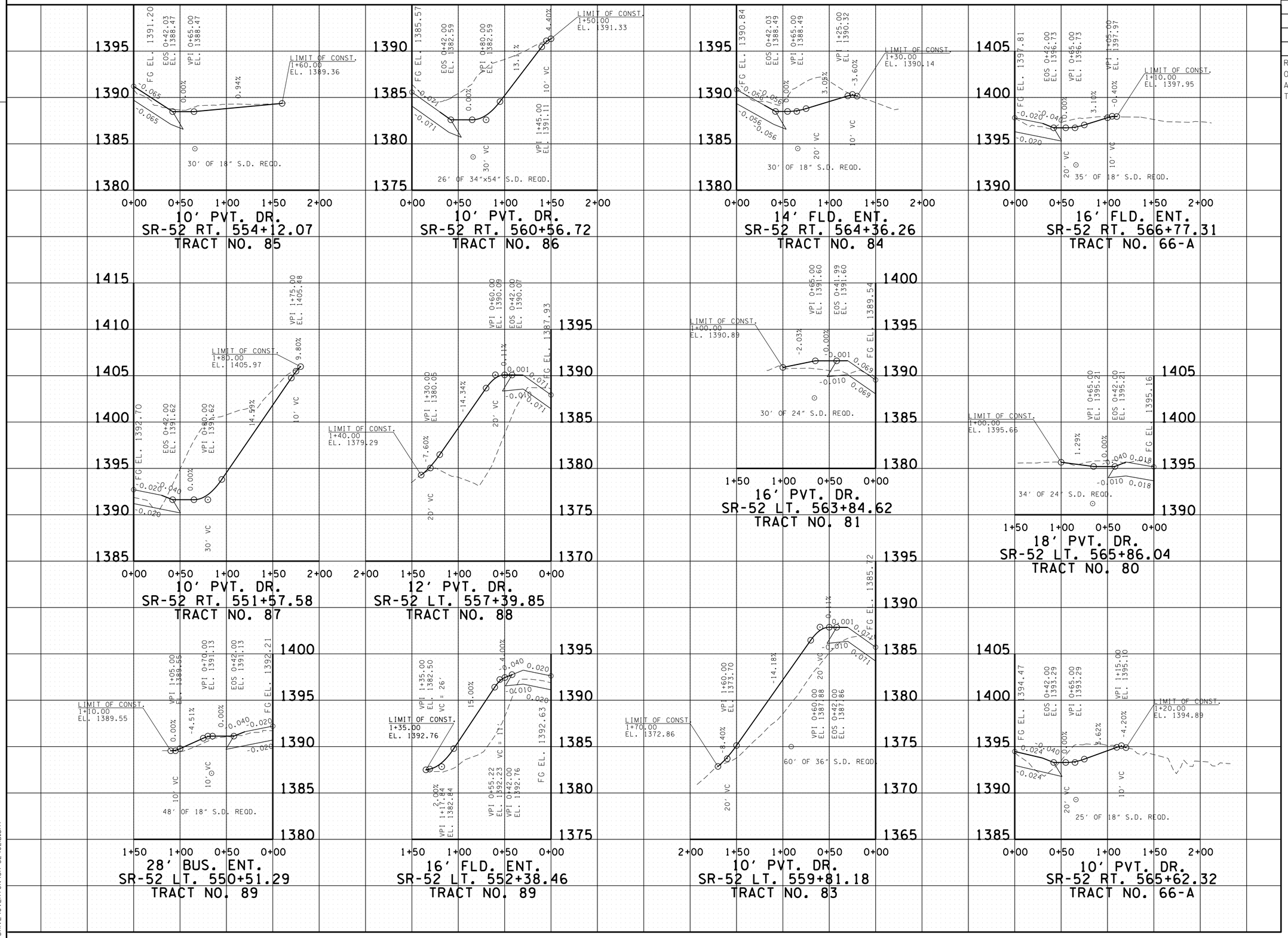
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	21B
CONST.	2014	APD/NH-52(48)	21B

REV. 10-04-13: ADJUSTED TRACT NO. ON FLD. ENT. RT. STA. 566+77.31 AND PVT. DR. RT. STA. 565+62.32 TO 66-A

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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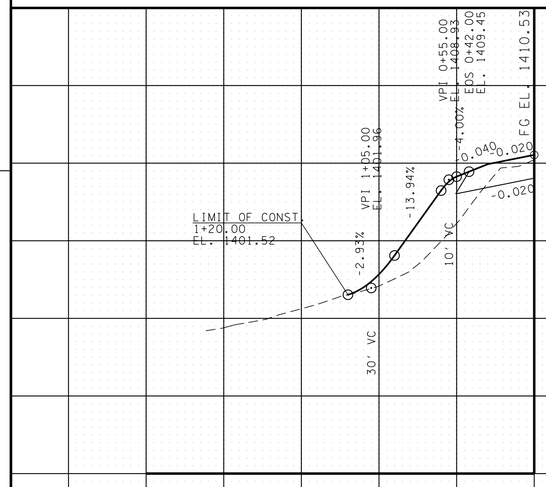
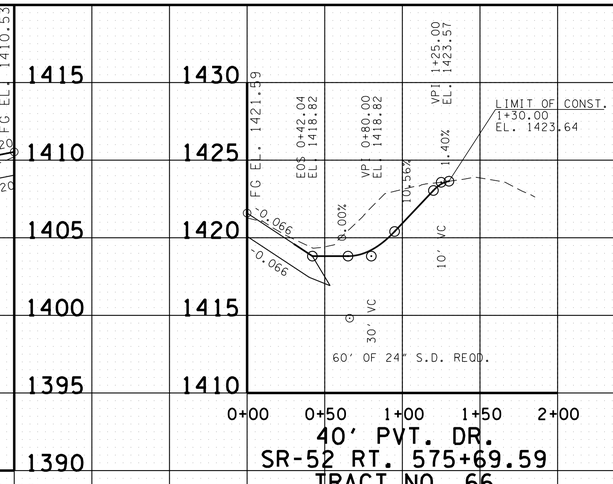
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

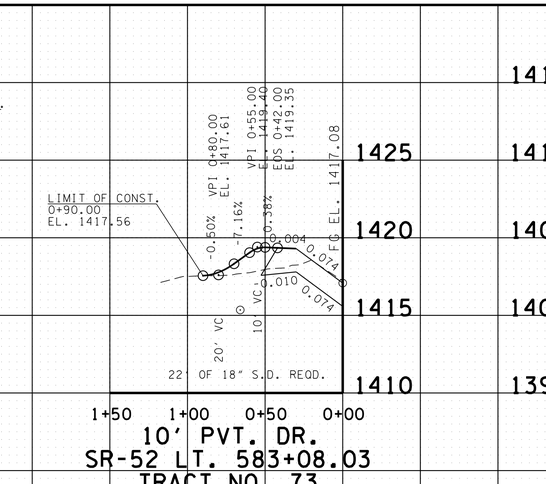
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	21C
CONST.	2014	APD/NH-52(48)	21C



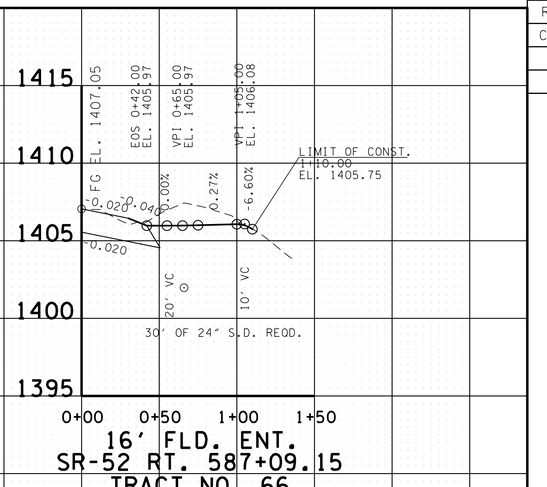
12' PVT. DR.
SR-52 LT. 571+16.08
TRACT NO. 77



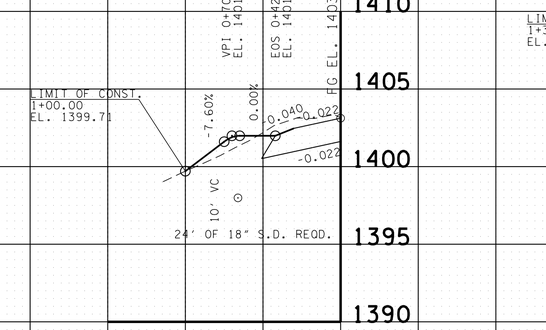
40' PVT. DR.
SR-52 RT. 575+69.59
TRACT NO. 66



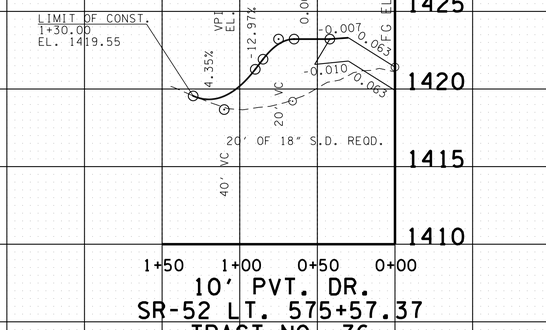
10' PVT. DR.
SR-52 LT. 583+08.03
TRACT NO. 73



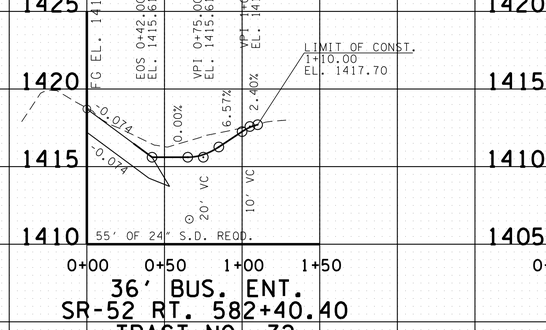
16' FLD. ENT.
SR-52 RT. 587+09.15
TRACT NO. 66



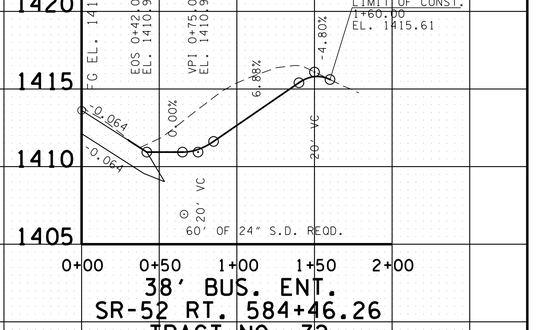
10' PVT. DR.
SR-52 LT. 568+60.45
TRACT NO. 78



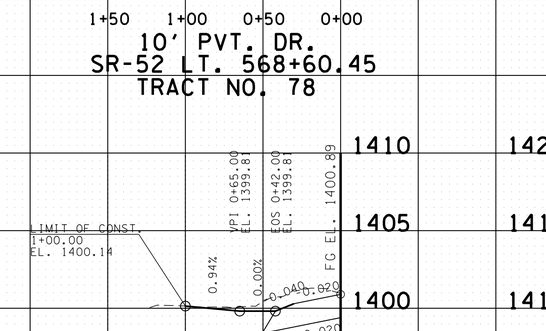
10' PVT. DR.
SR-52 LT. 575+57.37
TRACT NO. 76



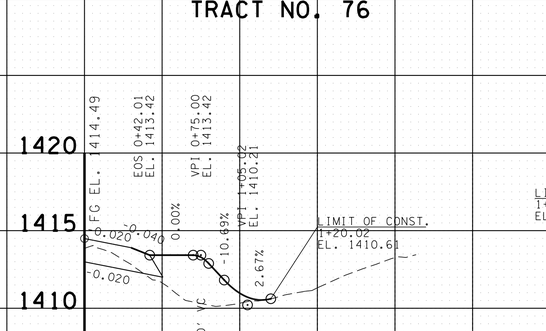
36' BUS. ENT.
SR-52 RT. 582+40.40
TRACT NO. 72



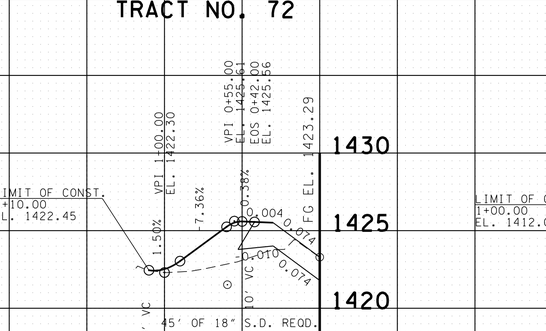
38' BUS. ENT.
SR-52 RT. 584+46.26
TRACT NO. 72



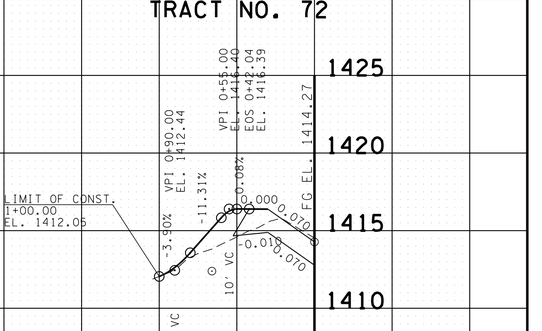
12' PVT. DR.
SR-52 LT. 567+83.76
TRACT NO. 79



10' PVT. DR.
SR-52 RT. 572+52.56
TRACT NO. 66



28' BUS. ENT.
SR-52 LT. 578+80.55
TRACT NO. 74



10' PVT. DR.
SR-52 LT. 584+20.29
TRACT NO. 70

0

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NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

TENNESSEE D.O.T.

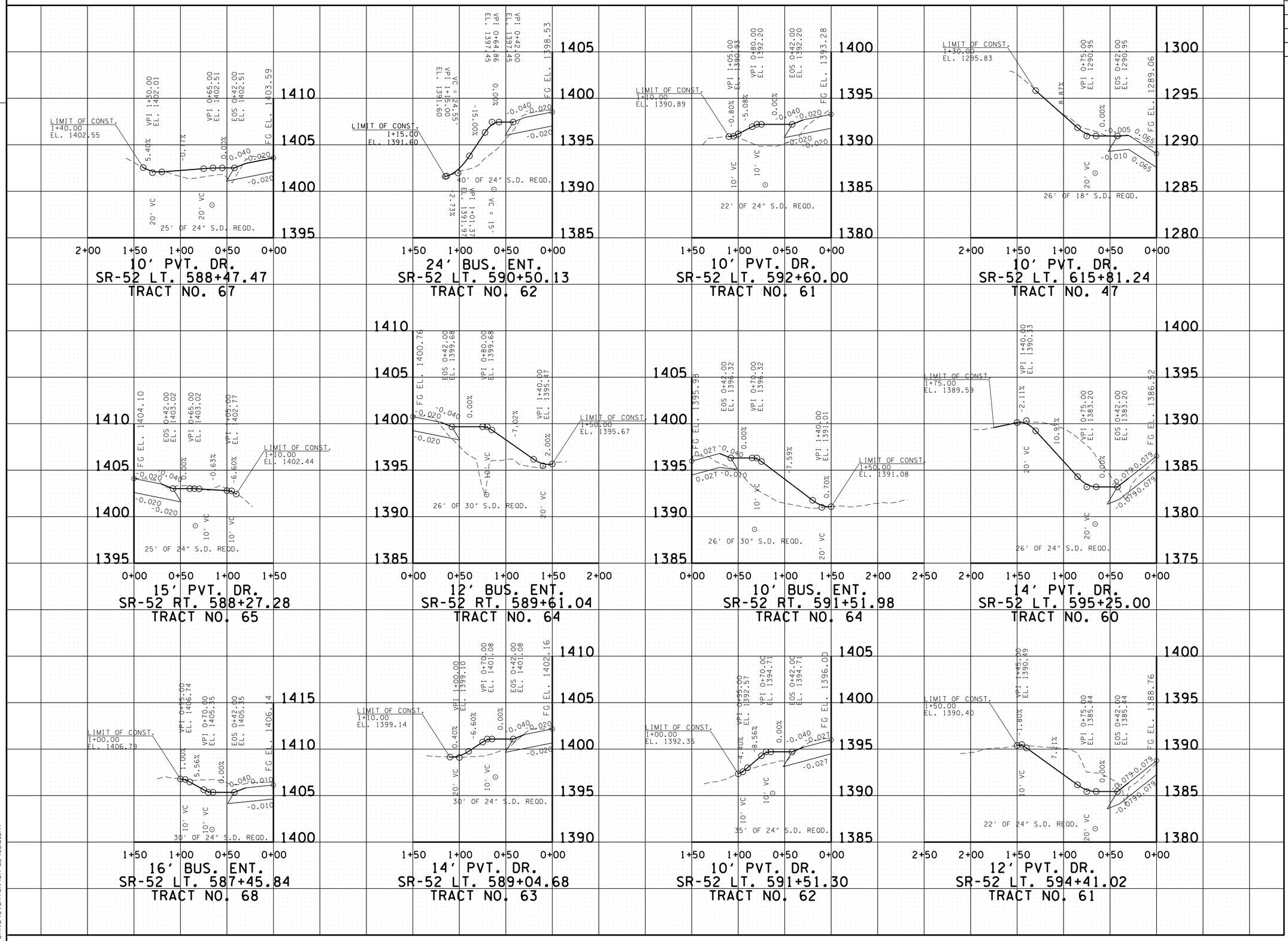
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	21D
CONST.	2014	APD/NH-52(48)	21D

REV. 12-07-12: ADJUSTED PVT. DR. TRACT NO. 61

REV. 04-07-14: ADJUSTED PVT. DR. TRACT NOS. 60 AND 67.



UNOFFICIAL SET

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 105473
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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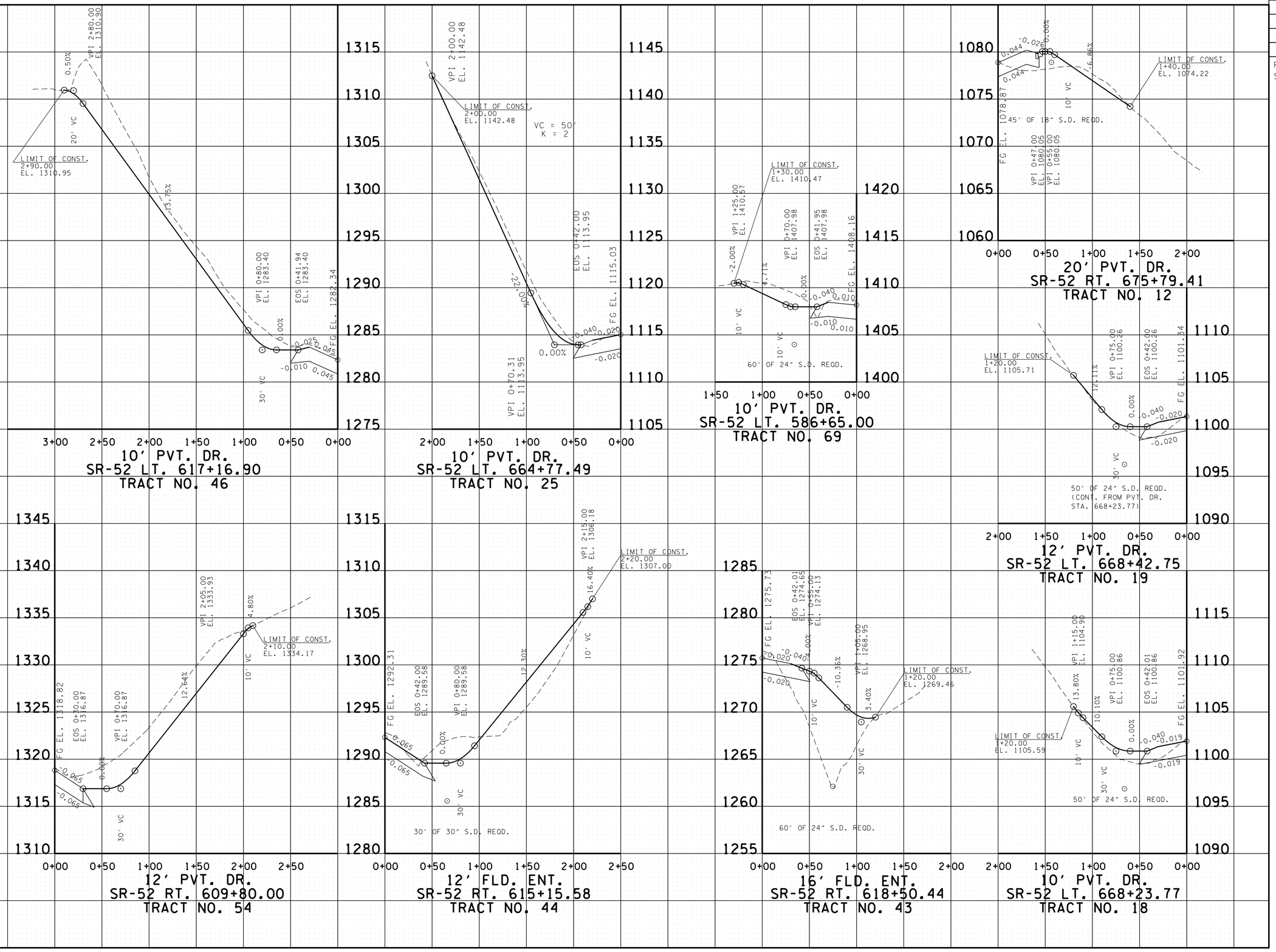
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	21E
CONST.	2014	APD/NH-52(48)	21E

REV. 07-15-13: ADJUSTED PVT. DR. STA. 617+16.90



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UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

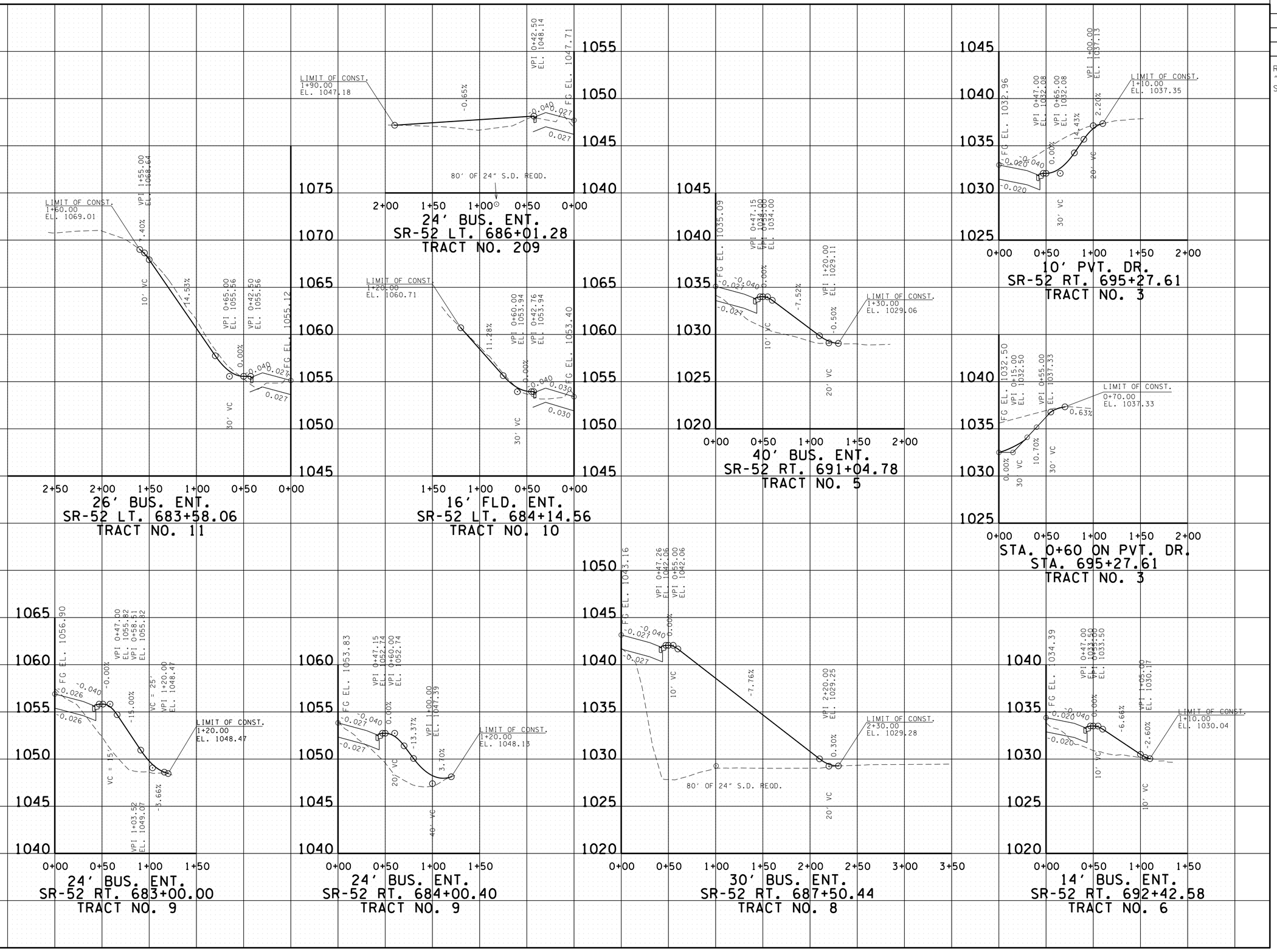
PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	21F
CONST.	2014	APD/NH-52(48)	21F

REV. 02-27-15: ADDED PROFILE FOR "Y" DRIVEWAY ON PVT. DRIVE STA. 695+27.61.



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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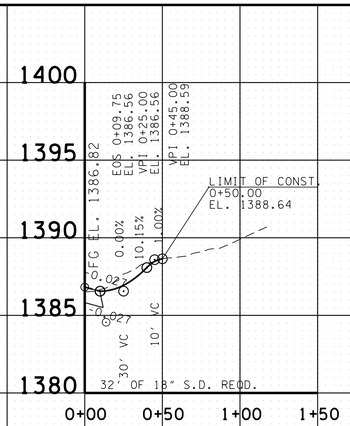
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

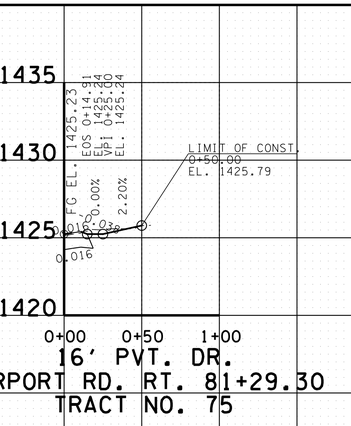
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	21G
CONST.	2014	APD/NH-52(48)	21G

REV. 01-17-14: ADJUSTED PVT. DR. TRACT 304

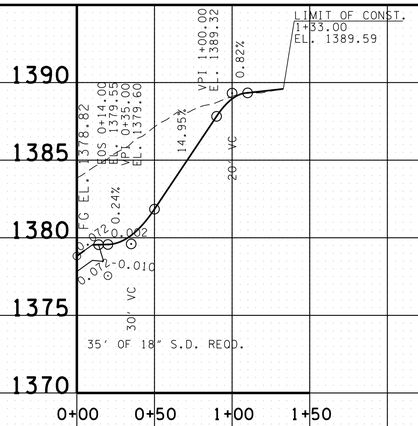
REV. 04-07-14: ADJUSTED PVT. DR. TRACT 60.



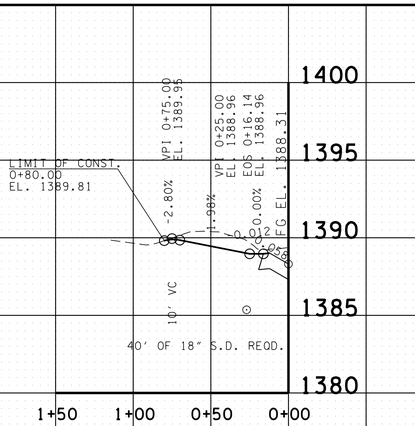
16' PVT. DR.
E. CEDAR LN. RT. 20+58.23
TRACT NO. 109



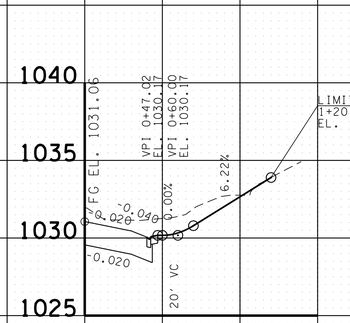
16' PVT. DR.
AIRPORT RD. RT. 81+29.30
TRACT NO. 75



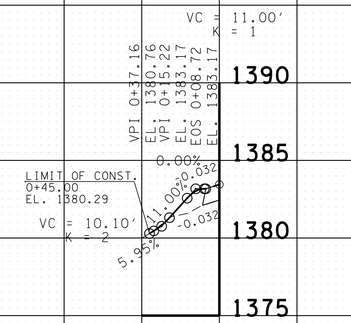
20' PVT. DR.
OLD ALLONS RD. RT. 102+84.57
TRACT NO. 60



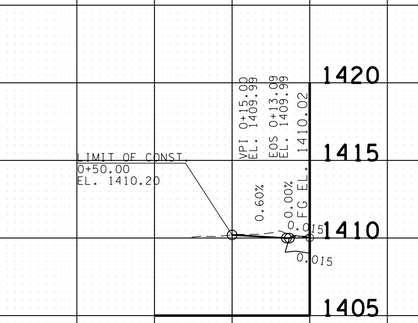
24' BUS. ENT.
ANDREW COVE RD. LT. 31+23.34
TRACT NO. 211



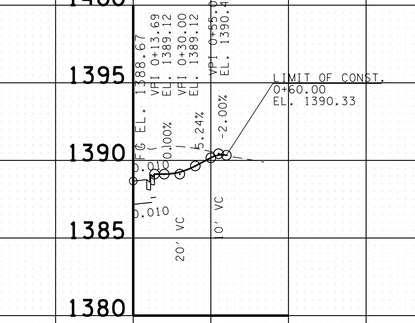
16' PVT. DR.
SR-52 RT. 699+08.09
TRACT NO. 1



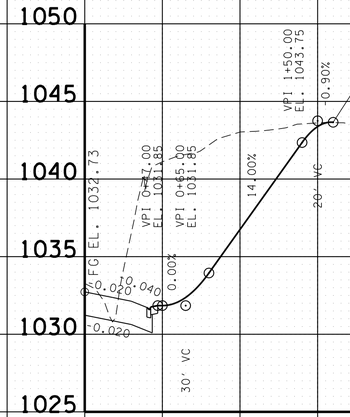
10' BUS. ENT.
HOOVER CEMETERY RD. LT. 61+04.68
TRACT NO. 98



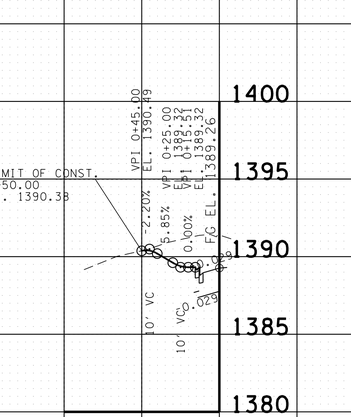
10' PVT. DR.
FISK RD. LT. 90+59.46
TRACT NO. 69



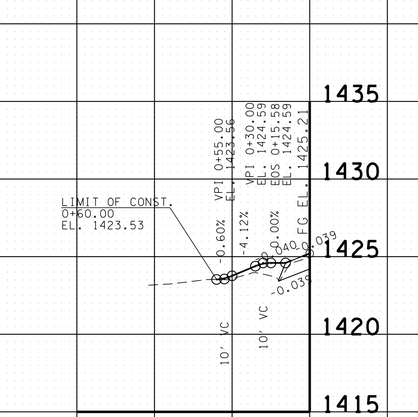
24' BUS. ENT.
TOWER HILL RD. RT. 51+38.44
TRACT NO. 211



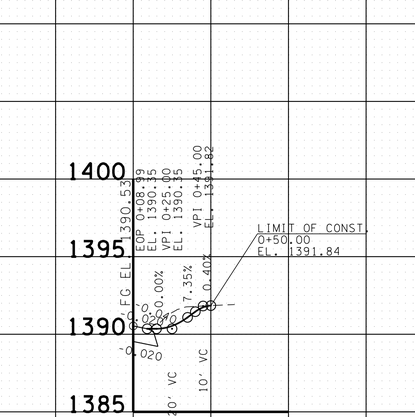
14' BUS. ENT.
SR-52 RT. 695+74.19
TRACT NO. 1



24' PVT. DR.
TOWER HILL RD. LT. 51+45.83
TRACT NO. 99



20' BUS. ENT.
AIRPORT RD. LT. 81+45.79
TRACT NO. 74



10' PVT. DR.
OLD ALLONS RD. RT. 100+50.00
TRACT NO. 304

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DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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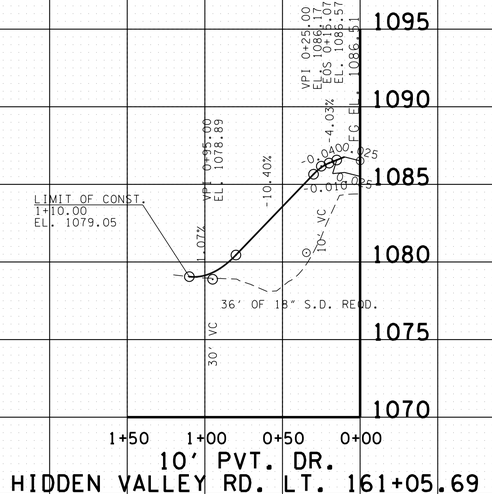
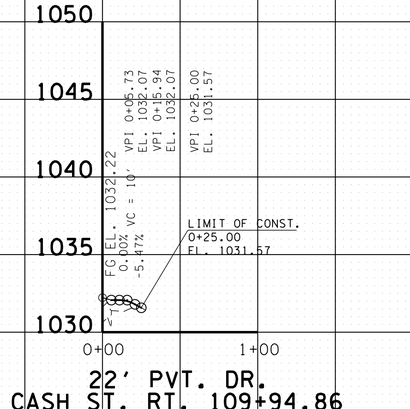
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	21H
CONST.	2014	APD/NH-52(48)	21H

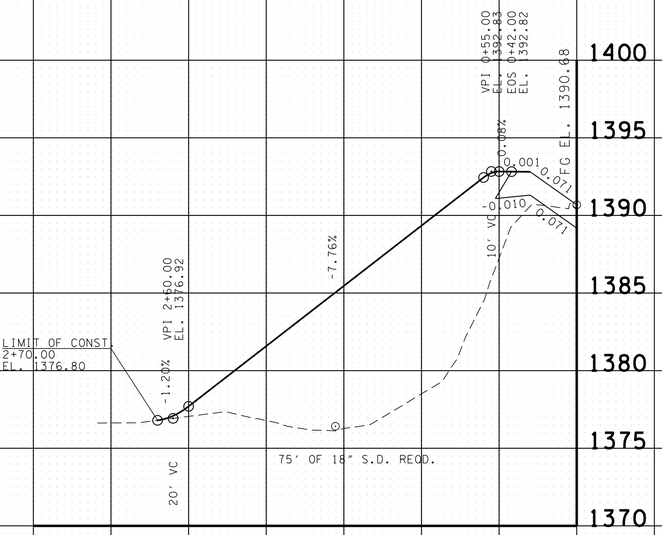
REV. 04-07-14: ADJUSTED PVT. DR. TR. NO. 6.



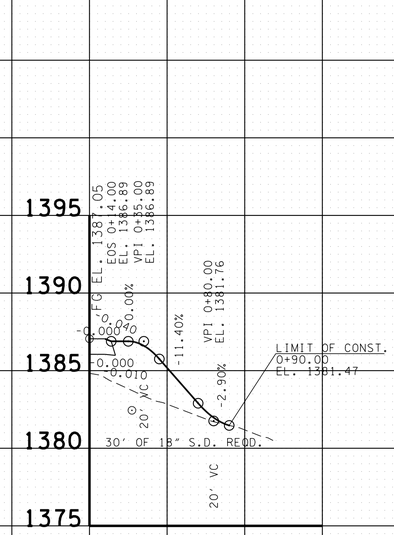
10' PVT. DR.
HIDDEN VALLEY RD. LT. 161+05.69
TRACT NO. 14



22' PVT. DR.
CASH ST. RT. 109+94.86
TRACT NO. 6



34' BUS. ENT.
SR-52 LT. 554+64.16
TRACT NO. 89



16' FLD. ENT.
TOM SMITH RD. RT. 71+50.00
TRACT NO. 82

0

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REGISTERED ENGINEER
XIV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

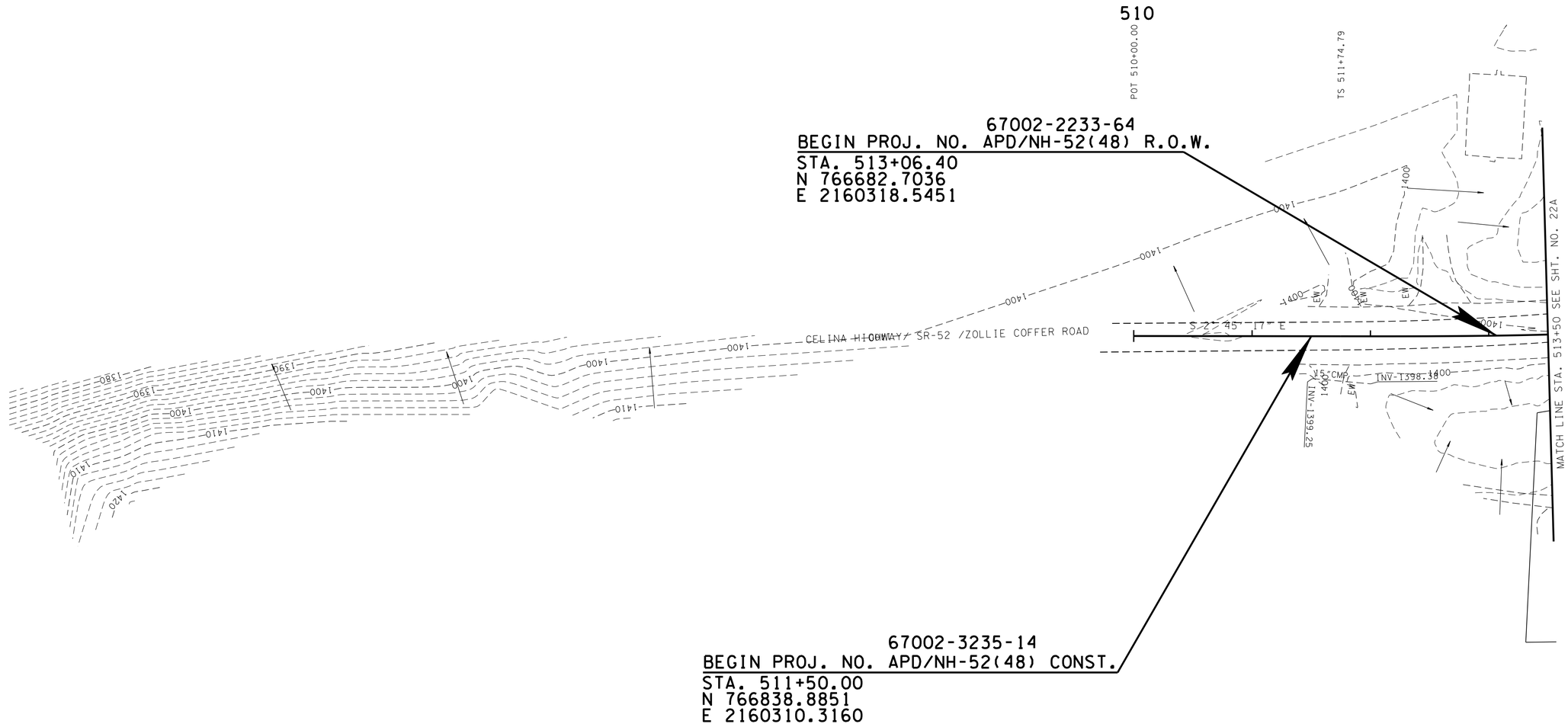
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22
CONST.	2014	APD/NH-52(48)	22

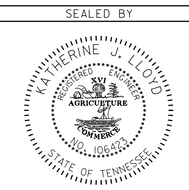
REV. 12-07-12: CORRECTED BEG.
PROJ. NORTHING & EASTING LABELS

N



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50'

22-JAN-2015 07:36
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22A
CONST.	2014	APD/NH-52(48)	22A

N

MATCH LINE STA. 513+50 SEE SHT. NO. 22

MATCH LINE STA. 526+50 SEE SHT. NO. 22B

SR-52 STA. 519+69.21 =
WEST CEDAR LN. PROP STA. 10+00.00
EAST CEDAR LN. STA. 22+75.93
N 766046.5335
E 2160483.4197

LIMIT OF CONST.
20+25.00

LIMIT OF CONST.
12+00.00

EAST CEDAR LANE

WEST CEDAR LANE

SR-52

515

520

525

SC 515+69.79

SC 525+24.80

EXISTING PIPE TO BE REMOVED

EXISTING PIPE TO BE REMOVED

EXISTING PIPE TO BE REMOVED

CONC. DITCH

CURB

WTL-1

WTL-2

WTL-3

WTL-4

WTL-5

INV-1389.18

INV-1388.97

INV-1388.42

INV-1393.36

INV-1392.05

INV-1391.64

INV-1386.00

INV-1385.97

INV-1386.50

INV-1389.48

INV-1389.12

INV-1386.47

INV-1385.07

INV-1385.09

INV-1383.58

INV-1383.33

INV-1387.87

INV-1387.57

DA-1
3.54 AC.

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 108473
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22B
CONST.	2014	APD/NH-52(48)	22B

LIMIT OF CONST.
40+50.00

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

SR-52 STA. 528+65.03 =
~~OLD SR-52 STA. 43+46.36~~
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

LIMIT OF CONST.
32+25.00

LIMIT OF CONST.
52+00.00

SR-52 STA. 536+40.86 =
TOWER HILL RD STA. 50+00.00
N 765350.0572
E 2161274.6023

MATCH LINE STA. 526+50 SEE SHT. NO. 22A

MATCH LINE STA. 539+50 SEE SHT. NO. 22C

SR-52

OLD STATE ROUTE 52

HOOVER CEMETERY ROAD

ANDREW COVE ROAD

TOWER HILL ROAD

EXISTING PIPE TO BE REMOVED

CONC. DITCH

CURB

WTL-5

WTL-6

WWC-1

WWC-2

EPH-2

DA-4 5.10 AC.

DA-5 2.36 AC.

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 526+50 TO STA. 539+50
SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22C
CONST.	2014	APD/NH-52(48)	22C

N

540

545

550

ST. 540+40.06

S 77° 32' 08" E

SR-52

MATCH LINE STA. 539+50 SEE SHT. NO. 22B

MATCH LINE STA. 552+50 SEE SHT. NO. 22D

TS 550+80.70

INV-1382.28 15" CMP

INV-1383.54

INV-1386.72 15" CMP

INV-1387.35 24" RCP

INV-1387.20

INV-1388.13

INV-1388.88 18" CMP

INV-1389.21

INV-1381.37

INV-1385.91 15" CMP

INV-1387.13 15" CMP

INV-1386.24

INV-1387.10

INV-1388.28 15" CMP

INV-1388.35

INV-1389.12 15" CMP

INV-1386.53

UNOFFICIAL SET

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

22-JAN-2015 07:36
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22D
CONST.	2014	APD/NH-52(48)	22D

SR-52 STA. 561+76.14 =
TOM SMITH RD. STA. 72+66.01
N 764284.5478
E 2164185.1421

LIMIT OF CONST.
70+10.00

560
555
565
70

SR-52

EXISTING PIPE TO BE REMOVED

EXISTING PIPE TO BE REMOVED

EXISTING PIPE TO BE REMOVED

TOM SMITH ROAD

S76° 25' 57" W

INV-1371.19
INV-1372.89
INV-1372.49
INV-1374.43
INV-1376.09
INV-1378.46
INV-1378.82
INV-1380.08
INV-1380.16
INV-1383.92
INV-1388.44
INV-1389.00
INV-1390.92
INV-1387.72
INV-1386.89
INV-1382.40
INV-1381.47
INV-1382.69
INV-1378.63
INV-1386.27
INV-1386.55

42" CMP
36" CMP
15" RCP
18" CMP
24" CMP
15" CMP
30" CMP
54" CMP

WTL-7
WTL-8

DA-6
13.27 AC.

DA-7
14.88 AC.

WMC-4
WMC-4

SC 554+35.70
SC 563+71.26

MATCH LINE STA. 552+50 SEE SHT. NO. 22C

MATCH LINE STA. 565+50 SEE SHT. NO. 22E

UNOFFICIAL SET
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KATHERINE J. LLOYD
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE & COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 552+50 TO STA. 565+50
SCALE: 1"= 50'

22-JAN-2015 07:37
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22E
CONST.	2014	APD/NH-52(48)	22E

LIMIT OF WORK
81+00.00
LIMIT OF CONST.
81+20.00

570
575
08
PND-1
WTL-9
WTL-10
WTL-8
DA-8
10.35 AC.
EXISTING PIPE
TO BE REMOVED
SR-52
CELINA HIGHWAY/ SR-52 /ZOLLIE COFFEE ROAD
S 35° 23' 51" E
TRAIL
AIRPORT ROAD
S 23° 39' W
N 66° 06' 20" W
ST 567+32.26
TS 572+22.17
SC 576+02.17
SR-4
SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786
MATCH LINE STA. 565+50 SEE SHT. NO. 22D
MATCH LINE STA. 578+50 SEE SHT. NO. 22F
MATCH LINE STA.

INV-1394.66 18"CMP
INV-1393.98
INV-1398.99
INV-1399.10 15"CMP
INV-1401.47 15"CMP
INV-1401.13
INV-1394.43 15"CMP
INV-1392.42
INV-1394.72 15"CMP
INV-1408.50
INV-1408.75 15"CMP
INV-1408.73 END
INV-1405.99 END
INV-1418.50 15"CMP
INV-1419.15
INV-1416.63
12"CMP
INV-1417.49

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

22-JAN-2015 07:37
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22F
CONST.	2014	APD/NH-52(48)	22F

N

LIMIT OF CONST.
90+35.00

SR-52

FISK ROAD

N 56° 26' 35" W

S 6° 02' 00" W

585

580

590

90

POND

TRAIL

EXISTING PIPE TO BE REMOVED

SR-52 STA. 585+54.02 =
FISK RD. STA. 91+72.78
N 762223.9052
E 2165230.0556

MATCH LINE STA. 578+50 SEE SHT. NO. 22E

MATCH LINE STA. 591+50 SEE SHT. NO. 22G

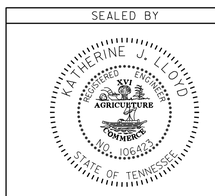
CS 58019.91

INV-1415.86
INV-1415.63 15"CMP
INV-1413.20 18"CMP
INV-1412.87 15"CMP
INV-1411.02 15"RCP
INV-1410.42
INV-1410.09
INV-1407.31
INV-1407.18 15"CMP
INV-1404.27
INV-1404.63 15"RCP
INV-1402.12
INV-1401.27 15"CMP
INV-1397.85
INV-1396.18
INV-1414.79 18"CMP
INV-1414.02
INV-1410.04
INV-1409.16
INV-1403.63 15"CMP
INV-1401.66 15"CMP
INV-1400.85
INV-1418.07 15"CMP
INV-1418.04
INV-1404.22
INV-1395.63 24"RCP
INV-1395.36
INV-1394.47
INV-1388.84

CURB
CONC. DITCH
WWC-5
S 58°06' 51" E

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50'

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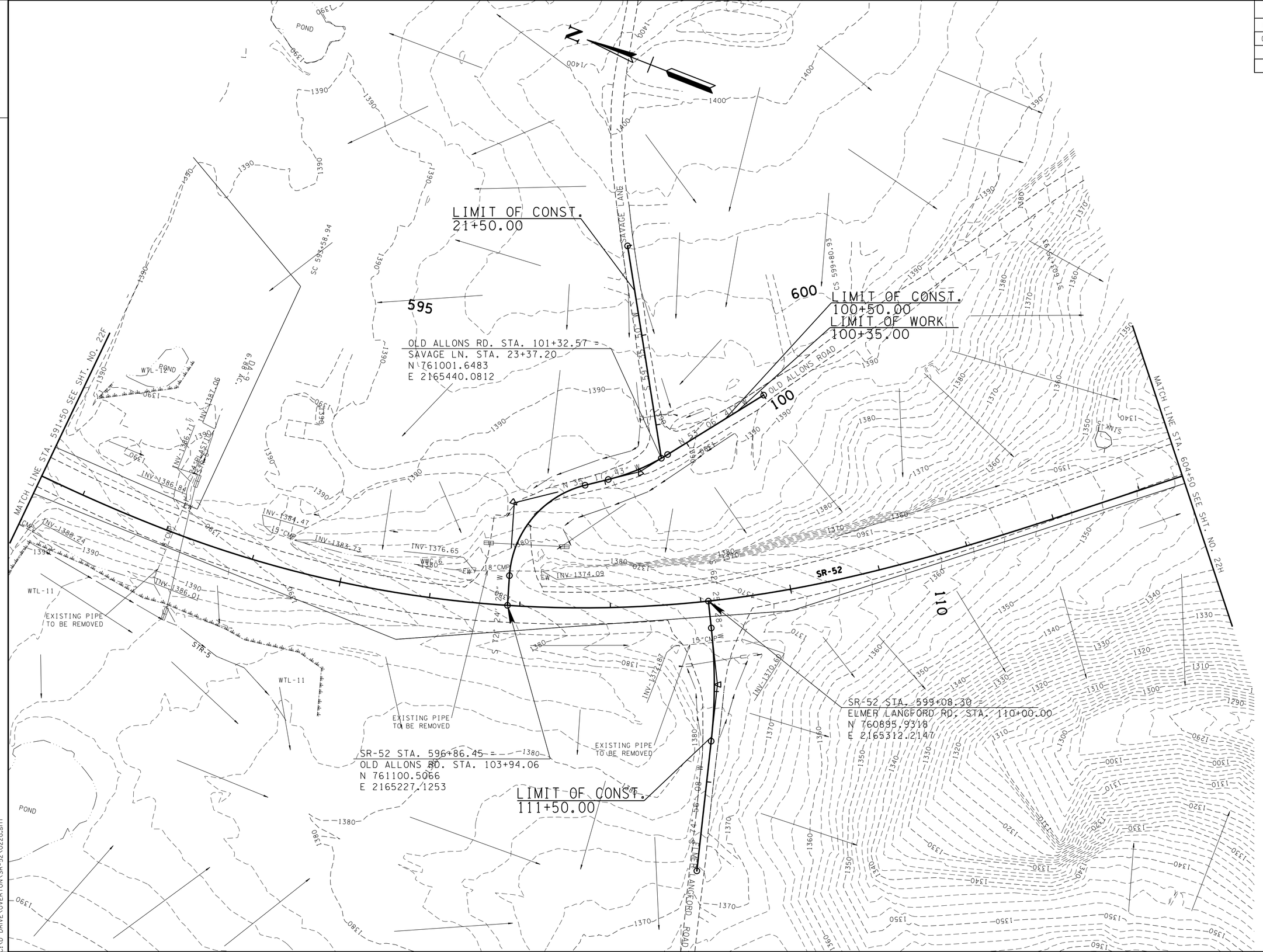
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22G
CONST.	2014	APD/NH-52(48)	22G



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NOT FOR BIDDING

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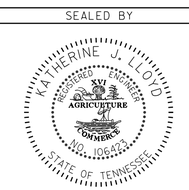

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22H
CONST.	2014	APD/NH-52(48)	22H

UNOFFICIAL SET

NOT FOR BIDDING

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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

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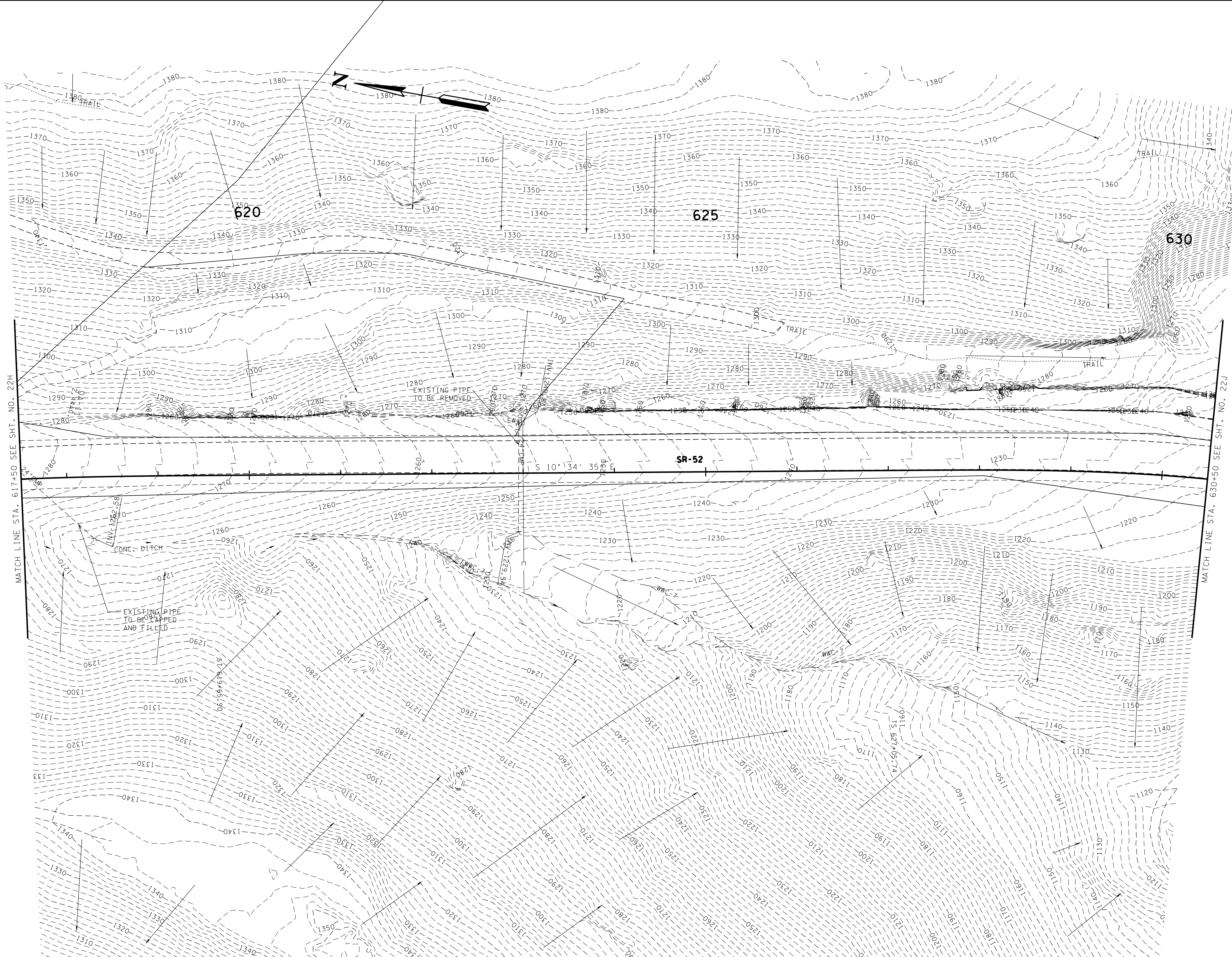
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22I
CONST.	2014	APD/NH-52(48)	22I



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NOT FOR BIDDING

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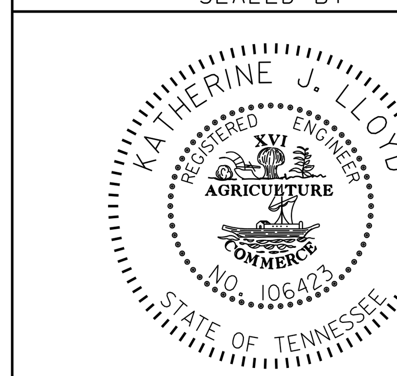


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

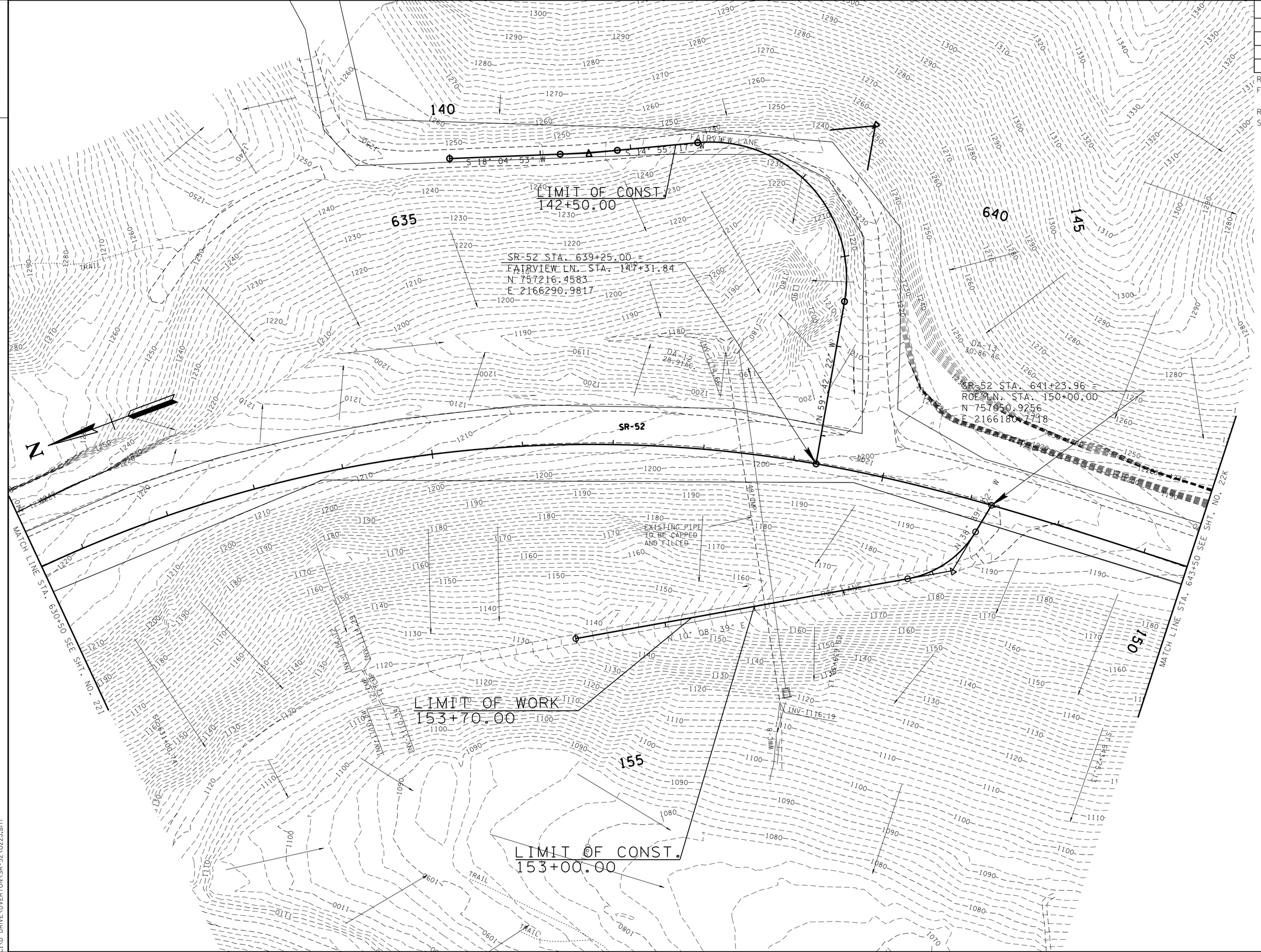
22-JAN-2015 07:37

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22J
CONST.	2014	APD/NH-52(48)	22J

REV. 07-15-13: RE-ALIGNED FAIRVIEW LN.

REV. 01-17-14: MOVED CULVERT STA. 638+55.00



UNOFFICIAL SET
NOT FOR BIDDING

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DRAINAGE MAP

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22K
CONST.	2014	APD/NH-52(48)	22K

UNOFFICIAL SET

NOT FOR BIDDING

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22L
CONST.	2014	APD/NH-52(48)	22L

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE

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DRAINAGE MAP

STA. 656+50 TO STA. 669+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22M
CONST.	2014	APD/NH-52(48)	22M

REV. 07-15-13: ADDED CROSS DRAIN HIDDEN VALLEY LN. STA. 164+00.00

SR-52 STA. 680+11.94 = TOWER HILL RD. STA. 170+00.00
N 753466.6250
E 2165921.8042

SR-52 STA. 670+85.99 = ALLRED RD. STA. 202+74.56
N 754325.5643
E 2165547.9535

SR-52 STA. 673+81.62 = HIDDEN VALLEY GOLF & COUNTRY CLUB RD. STA. 160+00.00
N 754019.9093
E 2165625.2465

LIMIT OF CONST. 200+10.00

LIMIT OF CONST. 171+20.00

LIMIT OF CONST. 164+75.00

MATCH LINE STA. 669+50 SEE SHT. NO. 22L

MATCH LINE STA. 682+50 SEE SHT. NO. 22N

SR-52

ALLRED

HIDDEN VALLEY GOLF AND COUNTRY CLUB ROAD

TOWER HILL ROAD

EXISTING PIPE TO BE REMOVED

CONC. DITCH

CURB

CMP

INV-1080.61

INV-1076.10

INV-1073.18

INV-1062.90

INV-1060.84

INV-1059.09

INV-1038.24

INV-1036.16

PT 679+22.47

PC 682+16.90

N 18° 49' 33" W

S 80° 22' 23" W

S 85° 57' 06" W

N 11° 35' 06" W

N 57° 54' 27" W

S 55° 54' 25" W

S 35° 09' 05" E

N 53° 59' 19" W

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KATHERINE J. LLOYD
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AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

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DRAINAGE MAP

STA. 669+50 TO STA. 682+50

SCALE: 1"= '

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22N
CONST.	2014	APD/NH-52(48)	22N

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

685

690

695

PND-2

PND-3

SR-52

SR-52 STA. 693+58.94 =
CASH ST. STA. 190+00.00
N 752260.6225
E 2166496.9731

EXISTING PIPE TO REMAIN IN PLACE

INV-1016.94

INV-1033.58

INV-1038.81

12" CMP

INV-1052.23

CURB

INV-1050.08

INV-1049.58

INV-1048.78

CONC. DITCH

18" CMP

MATCH LINE STA. 682+50 SEE SHT. NO. 22M

MATCH LINE STA. 695+50 SEE SHT. NO. 22P

PC 190+30.63
PT 190+59.28

PT 692+99.54

S 76° 30' 35" W

18" CMP

18" RCP

INV-1031.20

INV-1031.07

INV-1030.20

INV-1027.43

12" CMP

INV-1021.46

LIMIT OF CONST.
191+15.00

LIMIT OF PAVING
192+00.00

INV-1029.68

INV-1030.25

CASH STREET

UNOFFICIAL SET

NOT FOR BIDDING

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COMMERCE
NO. 104723
STATE OF TENNESSEE

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DRAINAGE MAP

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	22P
CONST.	2014	APD/NH-52(48)	22P

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

700

SR-111 STA. 217+94.30 =
SR52NCHURCH STA. 800+00.00
N ~~751204.9213~~
E 2166754.5121

220

EXISTING PIPE TO BE REPLACED

WTL-13

WTL-13

STR-6

48" RCP

48" RCP

18" RCP

INV-1028.18

INV-1027.97

INV-1027.19

INV-1027.12

INV-1026.91

INV-1029.57

INV-1029.86

INV-1029.25

INV-1028.40

INV-1028.75

12" CMP

CONC. DITCH

CONC. DITCH

CONC. DITCH

CONC. DITCH

CURB

SR-111

SR-111

SR-111

SR-111

SR-111

SR-111

MATCH LINE STA. 695+50 SEE SHT. NO. 22N

S 13° 29' 55" E — CELINA HIGHWAY/ SR-52 /ZOLLIE COFFER ROAD

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127
E 2166750.8076

215

SR-111 STA. 217+90.22 =
SR-52 STA. 704+46.39
N 751203.2127
E 2166750.8076

LIMIT OF CONST.
219+75.00

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076

800

DA-20
2.86AC

POT 704+46.39

POT 800+00.00

POT 802+50.00

WTL-17

INV-1021.10

EW

LIMIT OF PAVE
802+25.00

S 13° 18' 40" E

36" RCP

DA-19
7.48AC

INV-1021.14

WTL-16

WTL-14

WTL-15

WTL-16

N 68° 55' 00" E

LIMIT OF CONST.
215+50.00

N

1020 1030 1040

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XVI
AGRICULTURE
COMMERCE
No. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 695+50 TO STA. 704+47

SCALE: 1"= 50'

FILE NO.

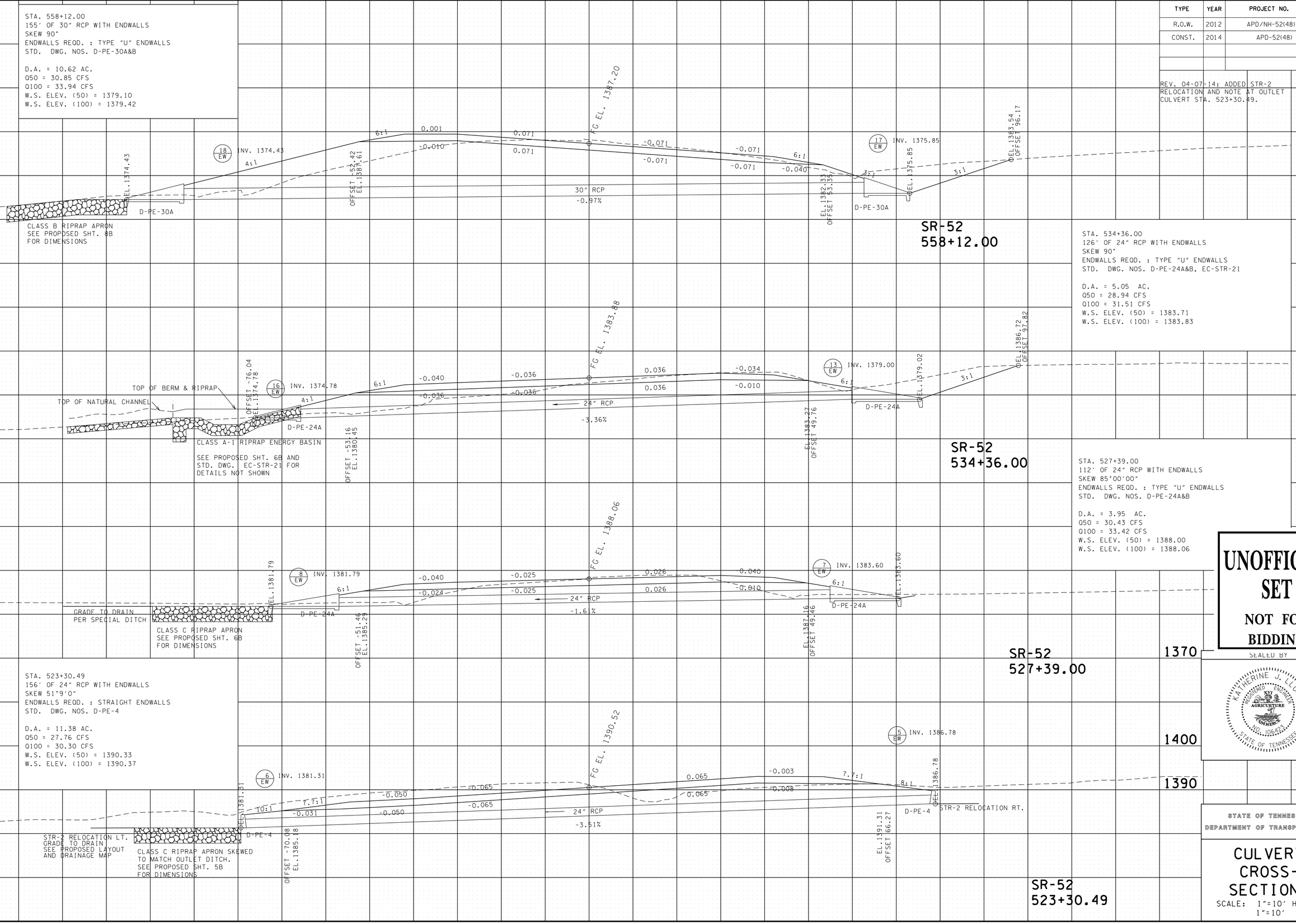
TENNESSEE D.O.T.
DESIGN DIVISION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD/NH-52(48)	23
CONST.	2014	APD-52(48)	23

REV. 04-07-14: ADDED STR-2 RELOCATION AND NOTE AT OUTLET CULVERT STA. 523+30.49.

STA. 558+12.00
155' OF 30" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-30A&B

D.A. = 10.62 AC.
Q50 = 30.85 CFS
Q100 = 33.94 CFS
W.S. ELEV. (50) = 1379.10
W.S. ELEV. (100) = 1379.42



STA. 534+36.00
126' OF 24" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-24A&B, EC-STR-21

D.A. = 5.05 AC.
Q50 = 28.94 CFS
Q100 = 31.51 CFS
W.S. ELEV. (50) = 1383.71
W.S. ELEV. (100) = 1383.83

STA. 527+39.00
112' OF 24" RCP WITH ENDWALLS
SKEW 85°00'00"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-24A&B

D.A. = 3.95 AC.
Q50 = 30.43 CFS
Q100 = 33.42 CFS
W.S. ELEV. (50) = 1388.00
W.S. ELEV. (100) = 1388.06

STA. 523+30.49
156' OF 24" RCP WITH ENDWALLS
SKEW 51°9'0"
ENDWALLS REQD. : STRAIGHT ENDWALLS
STD. DWG. NOS. D-PE-4

D.A. = 11.38 AC.
Q50 = 27.76 CFS
Q100 = 30.30 CFS
W.S. ELEV. (50) = 1390.33
W.S. ELEV. (100) = 1390.37

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CULVERT CROSS-SECTIONS

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	23A
CONST.	2014	APD/NH-52(48)	23A

FILE NO.

TENNESSEE D.O.T.
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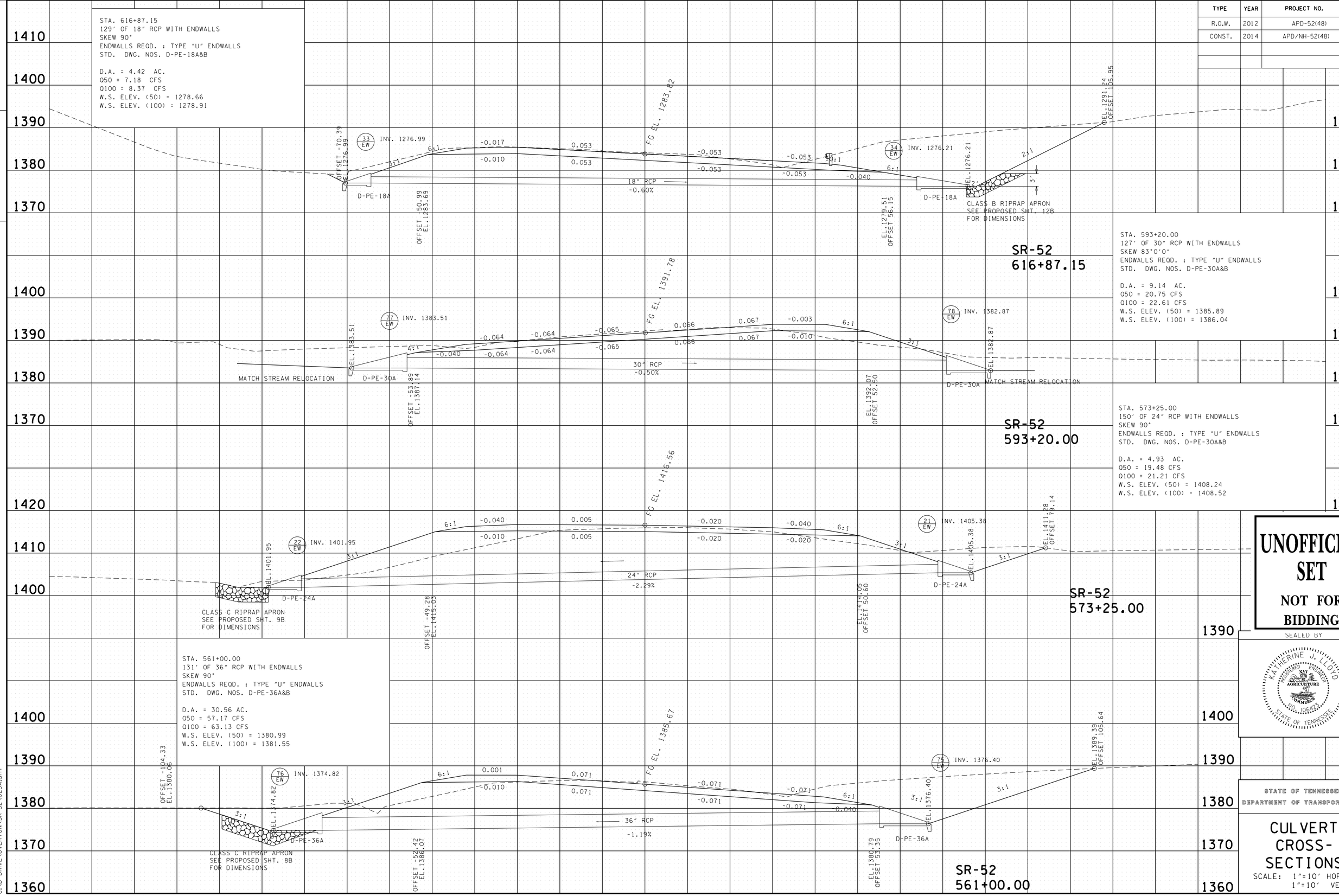
STA. 616+87.15
129' OF 18" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-18A&B

D.A. = 4.42 AC.
Q50 = 7.18 CFS
Q100 = 8.37 CFS
W.S. ELEV. (50) = 1278.66
W.S. ELEV. (100) = 1278.91



STA. 593+20.00
127' OF 30" RCP WITH ENDWALLS
SKEW 83°0'0"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-30A&B

D.A. = 9.14 AC.
Q50 = 20.75 CFS
Q100 = 22.61 CFS
W.S. ELEV. (50) = 1385.89
W.S. ELEV. (100) = 1386.04

STA. 573+25.00
150' OF 24" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-30A&B

D.A. = 4.93 AC.
Q50 = 19.48 CFS
Q100 = 21.21 CFS
W.S. ELEV. (50) = 1408.24
W.S. ELEV. (100) = 1408.52

STA. 561+00.00
131' OF 36" RCP WITH ENDWALLS
SKEW 90°
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-36A&B

D.A. = 30.56 AC.
Q50 = 57.17 CFS
Q100 = 63.13 CFS
W.S. ELEV. (50) = 1380.99
W.S. ELEV. (100) = 1381.55

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NO. 106423
STATE OF TENNESSEE

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CULVERT CROSS-SECTIONS

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	23B
CONST.	2014	APD/NH-52(48)	23B

REV. 01-17-14: MOVED CULVERT
STA. 638+55.00

MATCH LINE A

30" CLASS V RCP
JACKED-IN-PLACE
-14.90%

CLASS C RIPRAP DITCH
SEE PROPOSED SHT. 14B
AND TYPICAL SECTIONS
FOR DETAILS NOT SHOWN

79 EW INV. 1118.04

STA. 638+55.00
380' OF 30" RCP WITH ENDWALL AND USBR VI
SKEW 75° LT
ENDWALLS REQD. : TYPE "B" ENDWALL
STD. DWG. NOS. D-PE-9

D.A. = 27.82 AC.
Q50 = 35.15 CFS
Q100 = 38.76 CFS
W.S. ELEV. (50) = 1177.78
W.S. ELEV. (100) = 1178.21

OFFSET -60.22
EL.1201.42

OFFSET -55.02
EL.1202.28

FG EL. 1201.47

6.2:1

0.011
-0.010
0.081
0.081
-0.081
-0.081
-0.079
-0.079
-0.039

EL.1196.08
OFFSET 55.26

2.1:1

80 EW INV. 1174.00

2:1

MINIMAL GRADING AS NEEDED

GRADE TO DRAIN

TYPE "B" ENDWALL
AT 45° SKEW
D-PE-9

EL.1167.55
OFFSET 114.34

MATCH LINE A

SR-52
638+55.00

30" CLASS V RCP
JACKED-IN-PLACE
-14.90%

MATCH LINE STA. 623+00 OFFSET 130 FT.

OFFSET -86.81
EL.1269.82

1:1

EL. 1248.63

35 EW INV. 1248.63

4:1

-0.040
-0.020
-0.020
-0.020
-0.020
-0.020
-0.040
-0.020

FG EL. 1253.48

36 MH TOP EL. 1252.50
IN. EL. 1245.77
OUT.EL. 1226.64

6:1

D-PE-18A

OFFSET -50.59
EL. 1250.97

18" RCP
-3.19%

CLASS III RCP

EL. 1250.97
OFFSET 50.59

2:1

37 EW INV. 1225.52

EL. 1225.52
OFFSET 101.96

CLASS C RIPRAP DITCH
SEE PROPOSED SHT. 13B
AND TYPICAL SECTIONS
FOR DIMENSIONS NOT SHOWN

18" RCP
-2.00%

-3.00%

D-MH-2
CLASS IV RCP

D-PE-9

CLASS B RIPRAP DITCH
SEE PROPOSED SHT. 13B
AND TYPICAL SECTIONS
FOR DIMENSIONS NOT SHOWN

SR-52
623+00.00

STA. 623+00.00
151' OF 18" RCP WITH MANHOLE DROP AND ENDWALLS
SKEW 90°00'00"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-18A&B, D-MH-2, D-PE-9

D.A. = 3.27 AC.
Q50 = 7.16 CFS
Q100 = 7.87 CFS
W.S. ELEV. (50) = 1250.30
W.S. ELEV. (100) = 1250.43

1160 1150 1140 1130 1120 1110 1100 1210 1200 1190 1180 1170 1160 1150 1270 1260 1250 1240 1230 1220 1210

120 100 80 60 40 20 0 20 40 60 80 100 120

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106478
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	23C
CONST.	2014	APD/NH-52(48)	23C

REV. 12-07-12: ADJUSTED CULVERT XS TO REFLECT CHANGED SHOULDER WIDTH

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

STA. 688+94.09
196' OF EXISTING 36" RCP
SKEW 75°48'22"
ENDWALLS REQD. : NONE
STD. DWG. NOS. NONE

D.A. = 1142 AC.
Q50 = 357.9 CFS
Q100 = 405.8 CFS
W.S. ELEV. (50) =
W.S. ELEV. (100) =

OFFSET -45.76
EL. 1038.96
EL. 1039.43
OFFSET -42.79
-0.039
0.019
FG EL. 1038.80
OFFSET 44.88
EL. 1038.16
2:1
EL. 1024.91
OFFSET 75.63
TO REMAIN IN PLACE
EXISTING 36" RCP
-0.16%

SR-52
688+94.09

STA. 687+00.00
143' OF 42" RCP, CATCH BASIN AND ENDWALL
SKEW 90°
ENDWALLS REQD. : TYPE "A" ENDWALL
STD. DWG. NOS. D-PE-1, D-CB-28RB

D.A. = 23.70 AC.
Q50 = 70.42 CFS
Q100 = 77.52 CFS
W.S. ELEV. (50) = N/A
W.S. ELEV. (100) = N/A

58 EW INV. 1022.67
EL. 1022.67
CLASS B RIPRAP APRON
SEE PROPOSED SHT. 18B
FOR DIMENSIONS
TYPE "A"
D-PE-1
OFFSET -44.07
EL. 1045.45
EL. 1045.54
OFFSET -41.50
-0.040
0.027
FG EL. 1044.70
58 EW GT. EL. 1043.30
IN. EL. 1034.38
OUT. EL. 1023.38
OFFSET 43.76
EL. 1043.84
2:1
EL. 1028.60
OFFSET 78.12
42" RCP
-0.50%
D-CB-28RB

SR-52
687+00.00

STA. 664+34.83
147' OF 36" RCP WITH MANHOLE DROP AND ENDWALLS
SKEW 82°47'21"
ENDWALLS REQD. : TYPE "U"(LT) & "A"(RT) ENDWALLS
STD. DWG. NOS. D-PE-36A&B, D-PE-1, D-MH-2
D-FLU-1
D.A. = 33.10 AC.
Q50 = 44.99 CFS
Q100 = 49.89 CFS
W.S. ELEV. (50) = 1113.84
W.S. ELEV. (100) = 1114.20

40 EW INV. 1110.21
EL. 1110.21
OFFSET -74.94
EL. 1116.08
2:1
3:1
D-PE-36A
OFFSET -50.59
EL. 1114.21
-0.040
-0.020
FG EL. 1116.72
41 MH TOP EL. 1115.65
IN. EL. 1107.42
OUT. EL. 1086.98
6:1
36" RCP
-3.7%
CLASS III RCP
D-MH-2
CLASS IV RCP
EL. 1114.21
OFFSET 50.59
2:1
36" RCP
-1.00%
EL. 1090.41
OFFSET 98.18
42 EW INV. 1086.41
SEE STD. D-FLU-1
FOR DETAILS
NOT SHOWN
D-PE-1
END WALL
10.5'
3'
21'
5.5'
2:1
EL. 1076.90
BERMS
SEE PROP. SHT. 16B
FOR END DETAILS
8.05%
EL. 1072.64
BEGIN FLUME BOTTOM
AT PIPE OUTLET
END FLUME BEGIN
CLASS C RIPRAP DITCH
SPECIAL RIPRAP DITCH
3.5' DEEP SEE PROP.
SHT 16B FOR DETAILS
BEGIN EXISTING
CONC. DITCH

SR-52
664+34.83

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS
SCALE: 1"=10' HORIZ.
1"=10' VERT.

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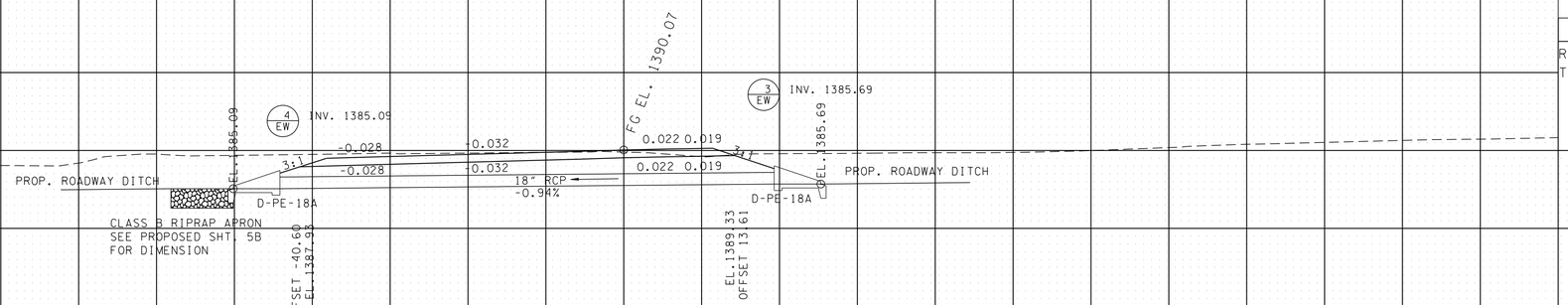
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	23D
CONST.	2014	APD/NH-52(48)	23D

REV. 12-07-12: ADJUSTED CULVERT XS TO REFLECT CHANGED SHOULDER WIDTH

FILE NO.

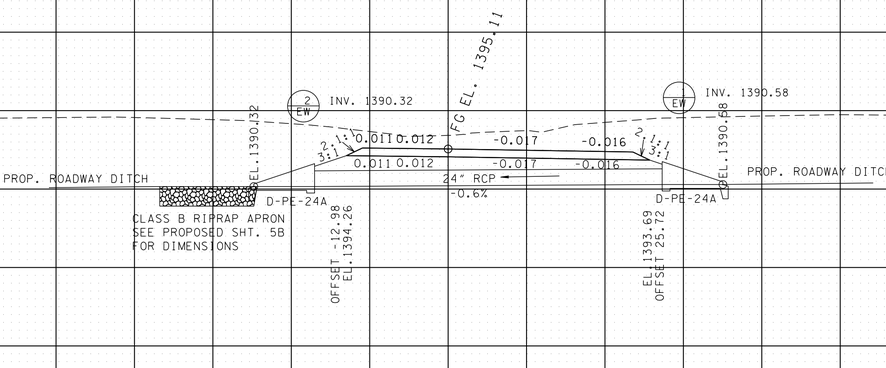
TENNESSEE D.O.T.
DESIGN DIVISION



STA. 22+08.57
64' OF 18" RCP WITH ENDWALLS
SKEW 61°17'59"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-18A&B

D.A. = 1.10 AC.
Q50 = 6.83 CFS
Q100 = 7.46 CFS
W.S. ELEV. (50) = 1387.30
W.S. ELEV. (100) = 1387.41

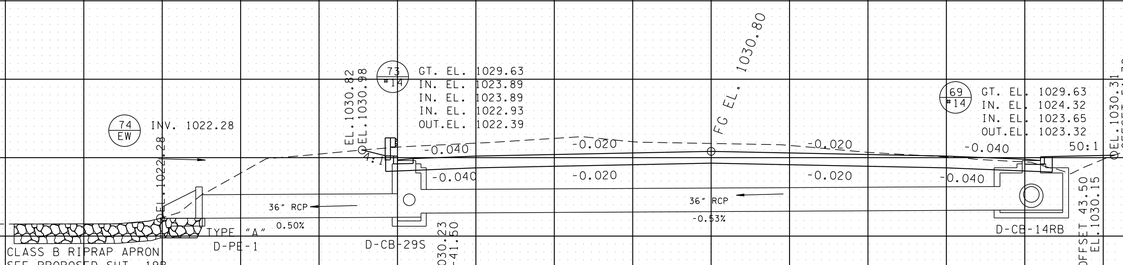
EAST CEDAR LN
22+08.57



STA. 10+65.99
45' OF 24" RCP WITH ENDWALLS
SKEW 73°28'51"
ENDWALLS REQD. : TYPE "U" ENDWALL
STD. DWG. NOS. D-PE-24A&B

D.A. = 3.29 AC.
Q50 = 10.58 CFS
Q100 = 11.53 CFS
W.S. ELEV. (50) = 1392.51
W.S. ELEV. (100) = 1392.45

WEST CEDAR LN
10+65.99



STA. 699+85.00
99' OF 36" RCP, CATCH BASINS AND ENDWALL
SKEW 90°
ENDWALLS REQD. : TYPE "A" ENDWALL
STD. DWG. NOS. D-PE-1, D-CB-29S, D-CB-14RB

D.A. = 6.6 AC.
Q50 = 31.55 CFS
Q100 = 34.61 CFS
W.S. ELEV. (50) = N/A
W.S. ELEV. (100) = N/A

SR-52
699+85.00

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CULVERT CROSS-SECTIONS

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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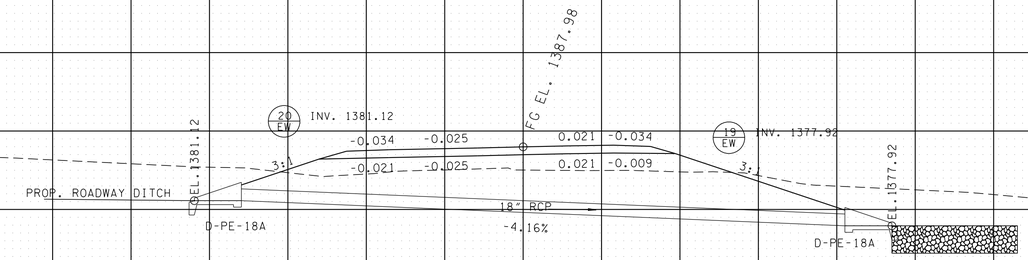
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	23E
CONST.	2014	APD/NH-52(48)	23E

FILE NO.

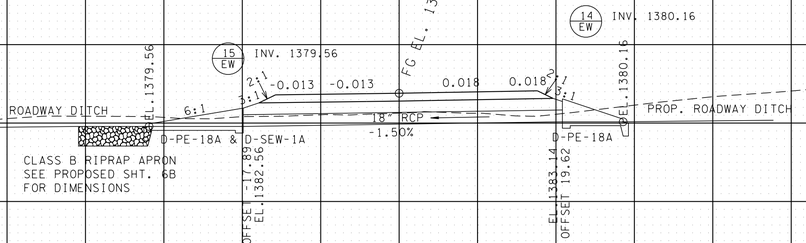
TENNESSEE D.O.T.
DESIGN DIVISION



TOM SMITH RD
71+93.05

STA. 71+93.05
77' OF 18" RCP WITH ENDWALLS
SKEW 80°4'50"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-18A&B

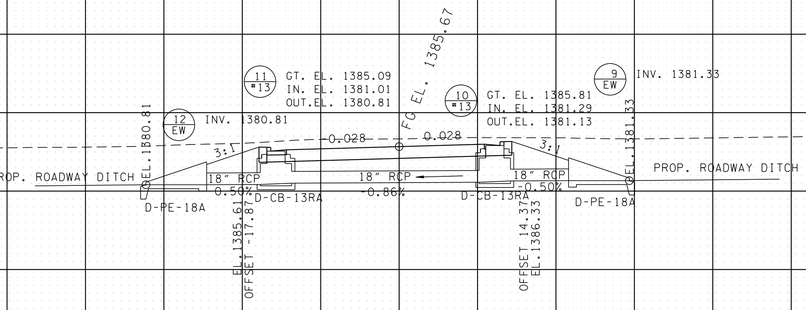
D.A. = 3.27 AC.
Q50 = 10.24 CFS
Q100 = 12.24 CFS
W.S. ELEV. (50) = 1383.45
W.S. ELEV. (100) = 1384.02



HOOVER CEMEMETERY RD
61+40.13

STA. 61+40.13
40' OF 18" RCP WITH ENDWALLS
SKEW 75°11'41"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-18A&B & D-SEW-1A

D.A. = 3.29 AC.
Q50 = 4.45 CFS
Q100 = 4.79 CFS
W.S. ELEV. (50) = 1381.37
W.S. ELEV. (100) = 1381.43



TOWER HILL RD
50+65.84

STA. 50+65.84
37' OF 18" RCP WITH CATCHBASINS AND ENDWALLS
SKEW 84°59'17"
ENDWALLS REQD. : TYPE "U" ENDWALL
STD. DWG. NOS. D-PE-18A&B, D-CB-13RA

D.A. = 1.23 AC.
Q50 = 4.70 CFS
Q100 = 5.17 CFS
W.S. ELEV. (50) = 1382.58
W.S. ELEV. (100) = 1382.66

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DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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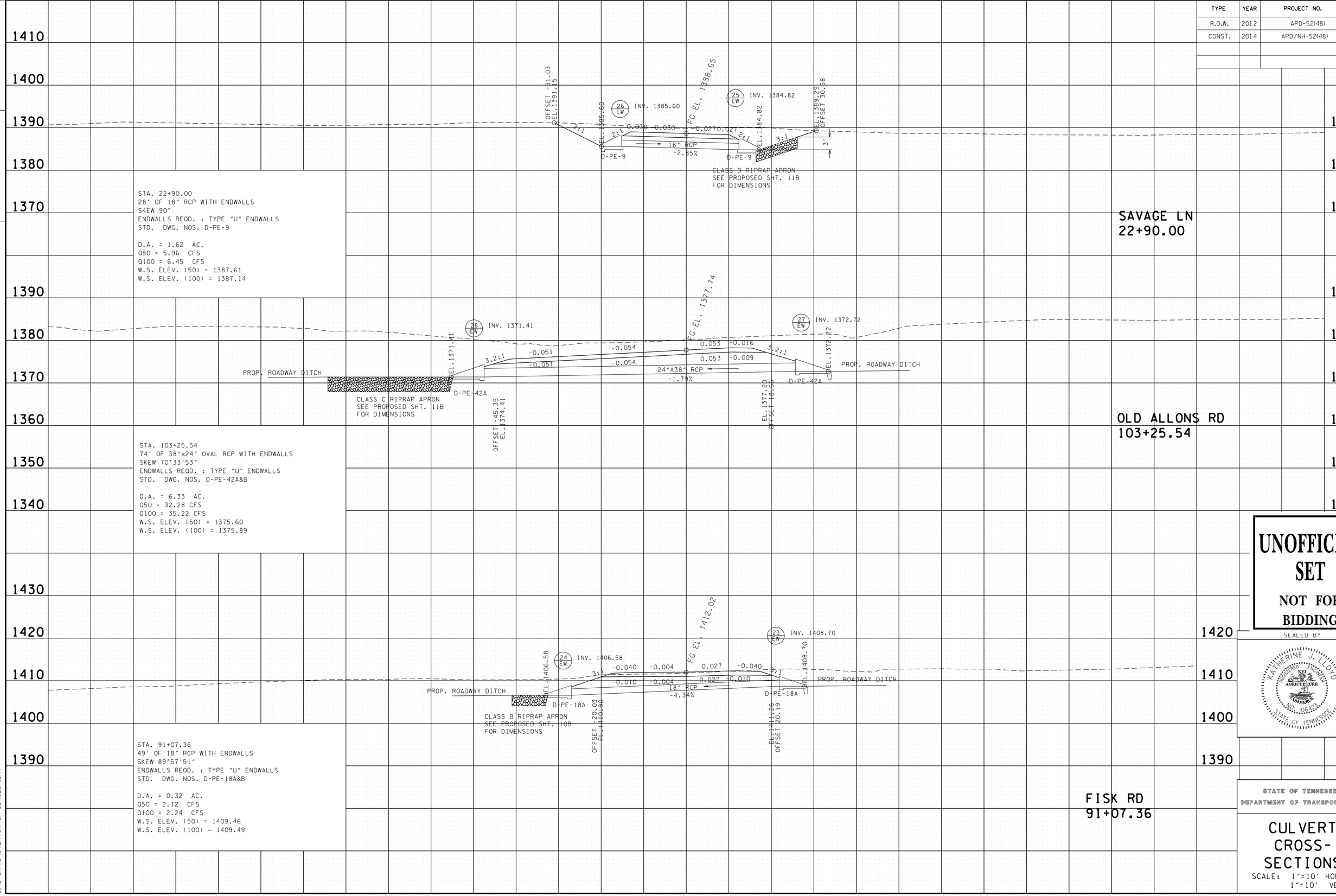
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	23F
CONST.	2014	APD/NH-52(48)	23F

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



UNOFFICIAL SET

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CULVERT CROSS-SECTIONS

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	23G
CONST.	2014	APD/NH-52(48)	23G

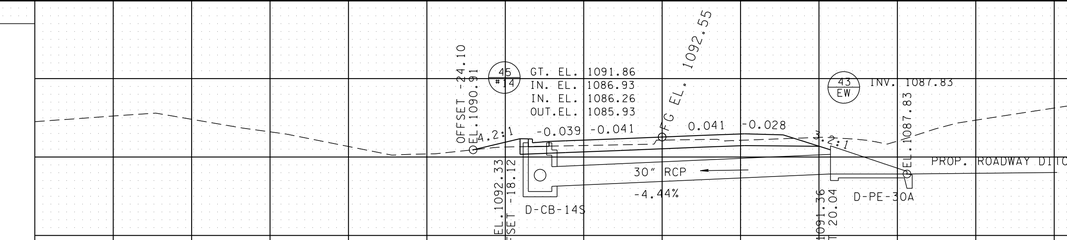
REV. 07-15-13: ADDED HIDDEN VALLEY LN. CULVERT SECTION

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

STA. 202+10.55
36' OF 30" RCP WITH ENDWALL & CATCHBASIN
SKEW 77°11'18"
ENDWALLS REQD. : TYPE "U" ENDWALL
STD. DWG. NOS. D-PE-30A&B, D-CB-14S

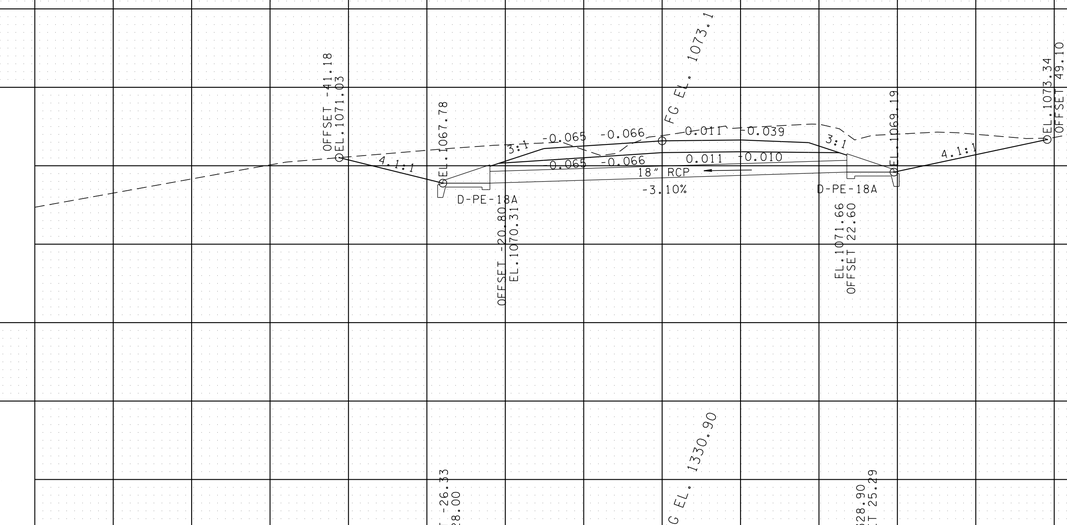
D.A. = 14.91 AC.
Q50 = 31.48 CFS
Q100 = 34.60 CFS
W.S. ELEV. (50) = 1091.14
W.S. ELEV. (100) = 1091.47



ALLRED RD
202+10.55

STA. 164+00.00
46' OF 18" RCP
SKEW 80° RT
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-18A&B

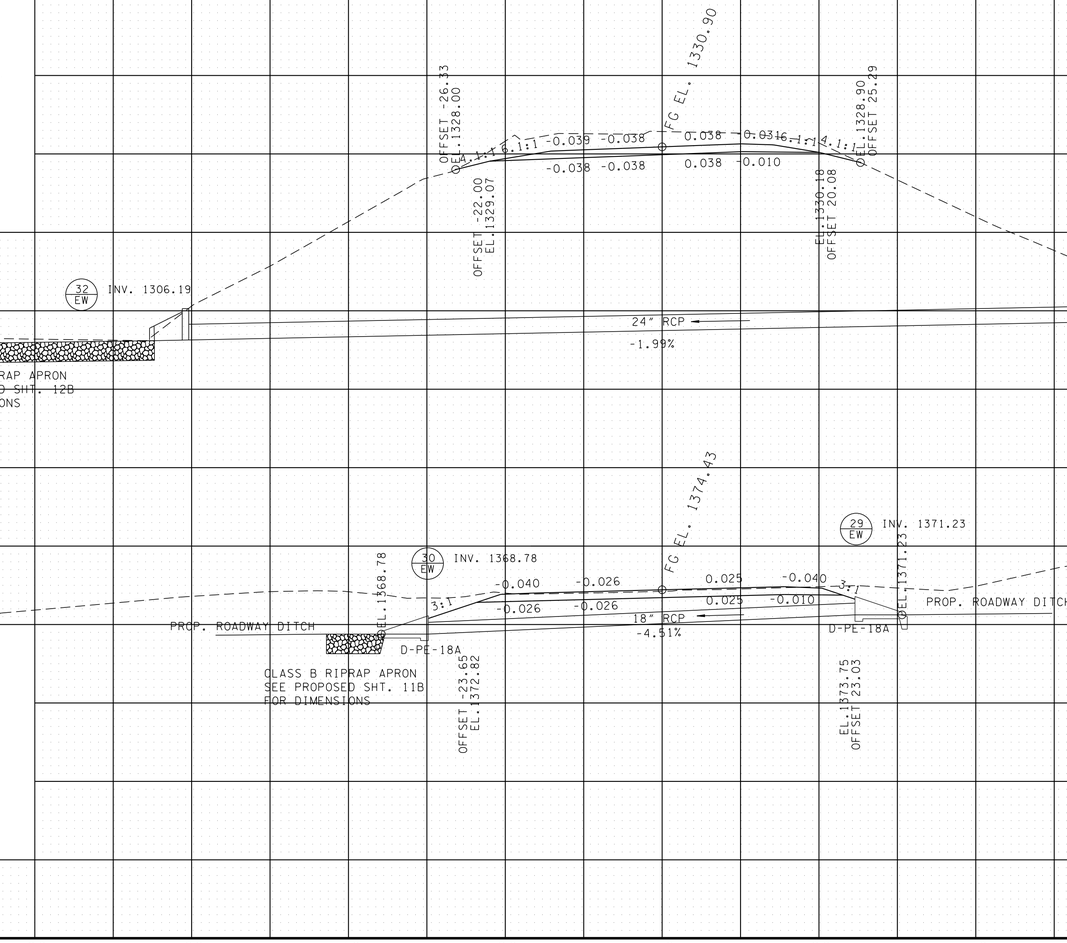
D.A. = 0.90 AC.
Q50 = 3.06 CFS
Q100 = 3.36 CFS
W.S. ELEV. (50) = 1070.49
W.S. ELEV. (100) = 1070.53



HIDDEN VALLEY GOLF &
COUNTRY CLUB LANE
164+00.00

STA. 121+48.22
127' OF 24" RCP
SKEW 80°53'28"
ENDWALLS REQD. : "U" @ INLET and "A" @ OUTLET
STD. DWG. NOS. D-PE-24A & D-PE-4

D.A. = 16.47 AC.
Q50 = 59.83 CFS
Q100 = 65.66 CFS
W.S. ELEV. (50) = 1324.78
W.S. ELEV. (100) = 1328.17



OLD ALLONS RD
121+48.22

STA. 110+65.03
55' OF 18" RCP WITH ENDWALLS
SKEW 86°37'57"
ENDWALLS REQD. : TYPE "U" ENDWALLS
STD. DWG. NOS. D-PE-18A&B

D.A. = 0.53 AC.
Q50 = 2.25 CFS
Q100 = 2.37 CFS
W.S. ELEV. (50) = 1372.02
W.S. ELEV. (100) = 1372.05

ELMER LANGRD
110+65.03

UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS
SCALE: 1"=10' HORIZ.
1"=10' VERT.

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140 120 100 80 60 40 20 0 20 40 60 80 100 120

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	24
CONST.	2014	APD/NH-52(48)	24

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 ROADWAY 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 RUNS 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.

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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	24A
CONST.	2014	APD/NH-52(48)	24A

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(5)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	7500
	209-01.31	TEMPORARY MULCH FILTER BERM	C.Y.	3100
	209-02.03	8" TEMPORARY SLOPE DRAIN	L.F.	315
	209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	220
	209-02.06	15" TEMPORARY SLOPE DRAIN	L.F.	118
	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	1027
	209-03.23	FILTER SOCK (24 INCH)	L.F.	3352
	209-05	SEDIMENT REMOVAL	C.Y.	600
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	14600
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	11250
	209-08.07	ROCK CHECK DAM PER	EACH	972
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	169
	209-08.09	FILTER SOCK CHECK DAM	EACH	270
(13)	209-09.01	SANDBAGS	BAG	500
	209-09.04	SEDIMENT FILTER BAG (15' X 10')	EACH	16
	209-09.40	CURB INLET PROTECTION (TYPE 1)	EACH	4
	209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	21
	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	2
(1)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	500
	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	5
	209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	6
	209-40.45	CATCH BASIN FILTER ASSEMBLY(TYPE 5)	EACH	2
	209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	8
	209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	4
	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	1050
	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	250
	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	70
(12)	604-02.41	ENERGY DISSIPATER (USBR TYPE VI IMPACT BASIN)	EACH	1
(6)	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	185
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	7000
(7)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	670
(3)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	670
(10)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	2835
(4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	2500
	740-11.05	TEMPORARY SEDIMENT TUBE 24IN (DESCRIPTION)	L.F.	14000
(2)	801-01	SEEDING (WITH MULCH)	UNIT	355
(1)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	3500
(8)	801-02	SEEDING (WITHOUT MULCH)	UNIT	255
(9)	801-02.01	CROWN VETCH MIXTURE (WITHOUT MULCH)	UNIT	610
(11)	801-03	WATER (SEEDING & SODDING)	M.G.	1500
	803-01	SODDING (NEW SOD)	S.Y.	62110
	805-01.02	TURF REINFORCEMENT MAT (CLASS II)	S.Y.	24538
	805-01.03	TURF REINFORCEMENT MAT (CLASS III)	S.Y.	1580
	805-01.04	TURF REINFORCEMENT MAT (CLASS IV)	S.Y.	1897
	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	1200
	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	38600
	805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	27800

NOTES FOR ALL EPSC PHASES:
1. ALL SILT FENCE, SILT FENCE W/ BACKING, SEDIMENT TUBE, FILTER SOCKS AND MULCH FILTER BERMS SHALL BE J-HOOKED ACROSS CONTOURS AS DIRECTED BY THE ENGINEER.
2. TEMPORARY CONSTRUCTION EXITS TO BE PLACED AS DIRECTED BY THE ENGINEER

NOTES:
(1) TO BE USED AS DIRECTED BY THE ENGINEER
(2) 270 UNITS TO BE USED FOR EXCESS MATERIAL TO BE WASTED AND 85 UNITS FOR SLOPE APPLICATION.
(3) INCLUDES 481 TONS FOR TEMP. STREAM DIVERSIONS, 69 TONS FOR CULVERT PROTECTION (TYPE I) AND 120 TONS FOR TEMP. SLOPE DRAINS
(4) INCLUDES 1198 SY FOR TEMP. STREAM DIVERSIONS, 162 SY FOR TEMP. CULVERT CROSSINGS, 536 SY FOR TEMP. CONSTRUCTION EXITS, 442 SY FOR TEMP. CONSTRUCTION FORDS, AND 162 SY FOR CULVERT PROTECTION (TYPE I)
(5) INCLUDES 6963 CY FOR TEMP. BERMS, 42 CY FOR TEMP. CULVERT CROSSINGS, 184 CY FOR TEMP. CONSTRUCTION EXITS, 156 CY FOR TEMP. CONSTRUCTION FORDS 75 CY FOR CULVERT PROTECTION (TYPE 1) AND 80 CY FOR TEMP. SLOPE DRAINS
(6) INCLUDES 97 FT FOR TEMP. CULVERT CROSSINGS
(7) INCLUDES 80 TONS FOR TEMP. CULVERT CROSSINGS, 330 TONS FOR TEMP. CONSTRUCTION EXITS AND 260 TONS FOR TEMP. CONSTRUCTION FORDS
(8) TO BE USED WITH TURF REINFORCEMENT MATS
(9) TO BE USED WITH EROSION CONTROL BLANKET
(10) TO BE USED IN BERM DITCHES AS SHOWN IN PLANS
(11) INCLUDES 350 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL, REMAINDER IS FOR SEEDING AND SODDING.
(12) PERMANENT DEVICE
(13) USED FOR STREAM DIVERSIONS AND CULVERT INSTALLATIONS.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM	EC-STR-27
MFB	MULCH FILTER BERM	EC-STR-35
	EROSION CONTROL BLANKET	EC-STR-34
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	TURF REINFORCEMENT MAT	EC-STR-36
	TEMPORARY DIVERSION CHANNEL (SEE EPSC PLAN PHASE 1 FOR TYPICAL)	EC-STR-31
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	TEMPORARY DIVERSION CULVERT (SEE PLAN PHASE 1 FOR DETAILS)	EC-STR-32
TCP	TEMPORARY CULVERT CROSSING (SEE PLAN PHASE 1 FOR PIPE SIZE)	EC-STR-25
TCP	TEMPORARY CONSTRUCTION FORD	EC-STR-25
	CULVERT PROTECTION (TYPE 1)	EC-STR-11

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
RP ED	PERMANENT RIPRAP ENERGY DISSIPATOR	EC-STR-21
	RIPRAP	EC-STR-27
	SAND BAG BERM	EC-STR-33
	SAND BAG BERM	EC-STR-33
SFB SFB SFB SFB	SEDIMENT FILTER BAG	EC-STR-2
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
2	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
5	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EC-STR-45
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
7	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EC-STR-47
1	CURB INLET PROTECTION (TYPE 1)	EC-STR-39
2	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
TCP	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1

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STATE OF TENNESSEE
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EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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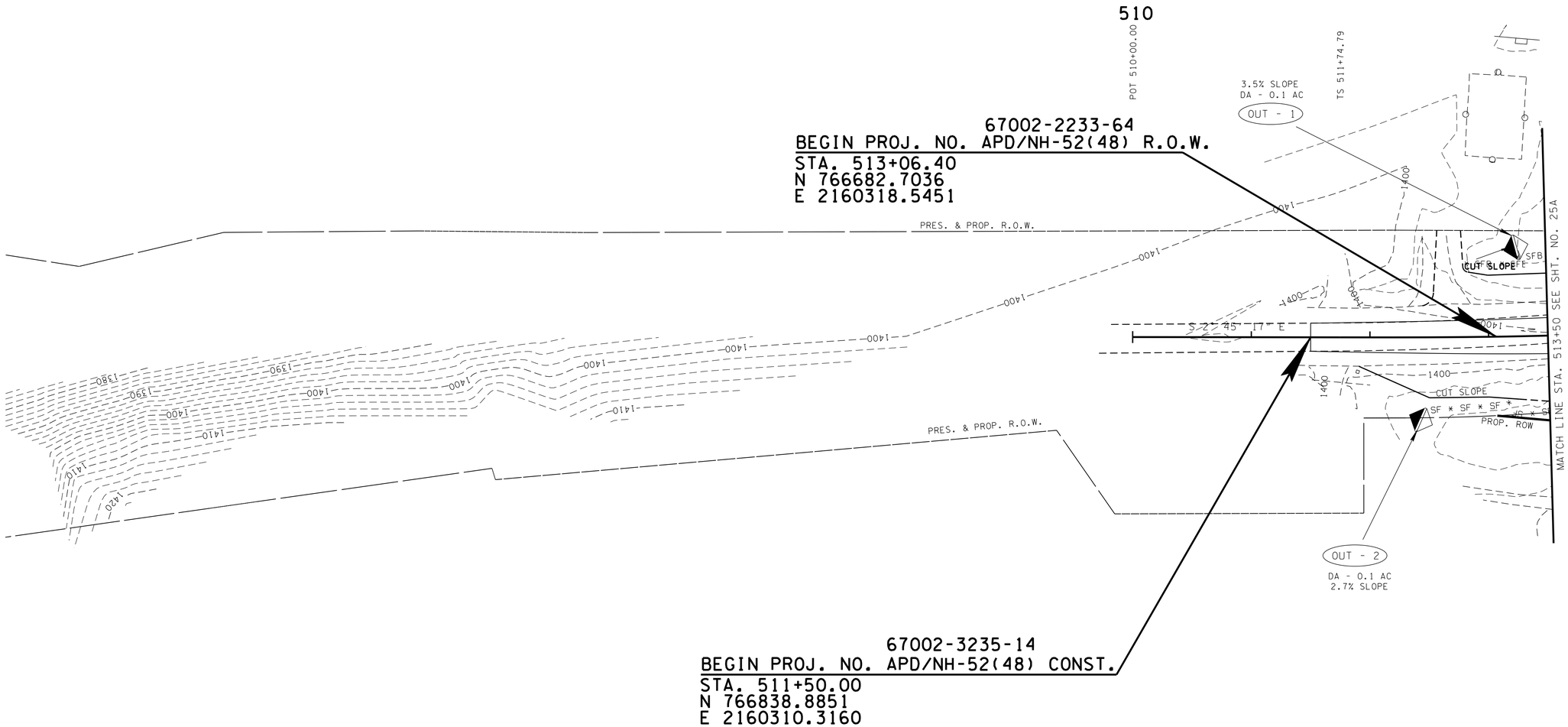
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25
CONST.	2014	APD/NH-52(48)	25

REV. 12-07-12: CORRECTED BEG. PROJ. NORTHING & EASTING LABELS, CORRECTED SHEET NUMBER



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CLEARING & GRUBBING

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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50'

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FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25A
CONST.	2014	APD/NH-52(48)	25A

REV. 12-07-12: ADJUSTED SLOPE LINES, ROW & CONST. ESMT. FOR STR-1 & STR-2 RELOCATIONS

REV. 07-15-13: CORRECTED ROW AND EASEMENT LINEWORK EAST CEDAR LANE

REV. 09-18-13: ADDED CONST. ESMT. AND SILT FENCE TRACT 107

N

MATCH LINE STA. 513+50 SEE SHT. NO. 25

MATCH LINE STA. 526+50 SEE SHT. NO. 25B

SR-52 STA. 519+69.21 =
WEST CEDAR LN. PROP STA. 10+00.00
EAST CEDAR LN. STA. 22+75.93
N 766046.5335
E 2160483.4197

LIMIT OF CONST.
20+25.00

LIMIT OF CONST.
12+00.00

SR-52

PRESENT AND PROPOSED R.O.W.

PRESENT R.O.W.

PROP. ROW

CUT SLOPE

FILL SLOPE

515

520

525

SC 515+69.79

SC 525+24.08

OUT - 3
0.5% SLOPE
DA - 0.6 AC

OUT - 4
DA - 0.1 AC
140% SLOPE

OUT - 5
0.5% SLOPE
DA - 0.7 AC

OUT - 6A
3.3% SLOPE
DA - 8.2 AC
7.9 AC CLEAN/TREATED
BY PREVIOUS EPSC MEASURES

STR-A

WTL-1

WTL-2

WTL-3

WTL-5

40' OF 18" TEMP. SLOPE DRAIN

75' OF 18" TEMP. SLOPE DRAIN

20' OF 12" TEMP. SLOPE DRAIN

60' OF 8" TEMP. SLOPE DRAIN

90' OF 18" TEMP. SLOPE DRAIN

2x100' OF 18" TEMP. SLOPE DRAIN

75' OF 12" TEMP. SLOPE DRAIN

85' OF 15" TEMP. SLOPE DRAIN

USE 1.5' DESIGN DEPTH FOR DIVERSION

10

20

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CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25B
CONST.	2014	APD/NH-52(48)	25B

REV. 12-07-12: ADDED SLOPE LINES FOR ANDREW COVE RD. PVT. DR. & BOTH TOWER HILL RD. PVT. DRS.

LIMIT OF CONST.
40+50.00

OUT - 7
DA - 7.2 AC
6.7 AC CLEAN/TREATED BY PREVIOUS EPSC MEASURES
8.5% SLOPE
4.0% SLOPE
DA - 0.2 AC

OUT - 8

OUT - 9
DA - 1.8 AC
3.1% SLOPE

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

SR-52 STA. 528+65.03 =
OLD SR-52 STA. 43+46.36
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

PRESENT AND PROPOSED R.O.W.

1.6% SLOPE
DA - 5.1 AC
4.2 AC TREATED BY PREVIOUS EPSC MEASURES

OUT - 10

2.7% SLOPE
DA - 0.5 AC

OUT - 10A

8.5% SLOPE
DA - 0.6 AC

OUT - 11

MATCH LINE STA. 526+50 SEE SHT. NO. 25A

MATCH LINE STA. 539+50 SEE SHT. NO. 25C

PRESENT R.O.W.

CUT SLOPE

PROP. ROW

FILL SLOPE

SR-52

S 30° 03' 24" W

S 60° 05' 58" E

S 29° 54' 02" W

S 29° 51' 17" W

3 X 30' OF 18" TEMP. SLOPE DRAIN

45' OF 15" TEMP. SLOPE DRAIN

35' OF 12" TEMP. SLOPE DRAIN

20' OF 18" TEMP. SLOPE DRAIN

20' OF 8" TEMP. SLOPE DRAIN

45' OF 8" TEMP. SLOPE DRAIN

50' OF 8" TEMP. SLOPE DRAIN

60' OF 8" TEMP. SLOPE DRAIN

OUT-10B
DA - 9.5 AC
3.5% SLOPE

LIMIT OF CONST.
32+25.00

LIMIT OF CONST.
52+00.00

SR-52 STA. 530+40.86 =
TOWER HILL RD STA. 50+00.00
N 765350.0572
E 2161274.6023

530 535 540 545

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CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 526+50 TO STA. 539+50

SCALE: 1" = 50'

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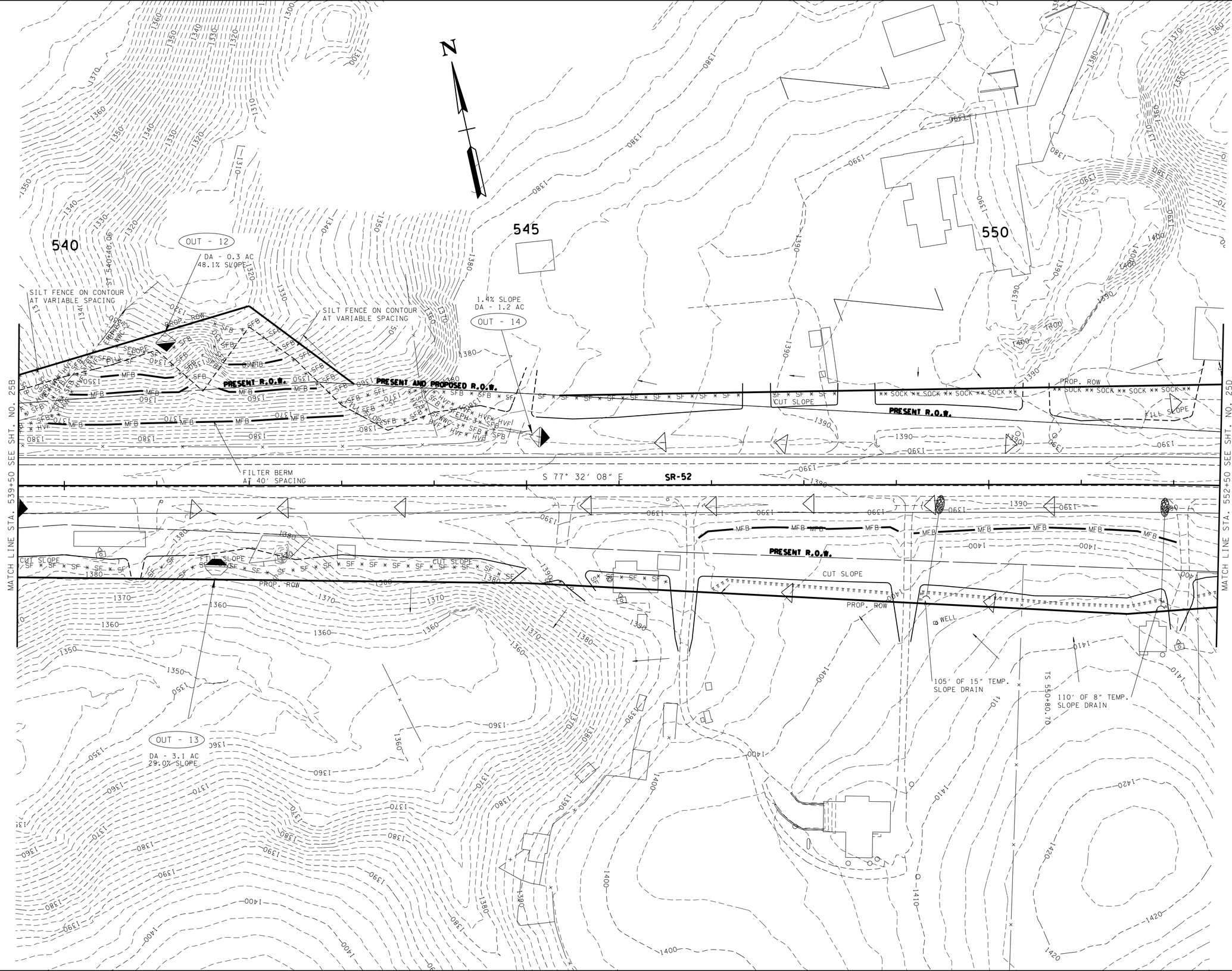
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25C
CONST.	2014	APD/NH-52(48)	25C

REV. 01-21-15: CHANGED PVT. DRIVE STA'S. 546+70.67 AND 549+11.05 TO 12' WIDTH. ADDED SPLIT TO FIELD ENT. STA. 545+41.28.



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STATE OF TENNESSEE
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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

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TENNESSEE D.O.T.

DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25D
CONST.	2014	APD/NH-52(48)	25D

REV. 01-17-14: CHANGED CONST. ESMT. TO DRAIN. ESMT. TRACT 84

N

555

560

565

570

3.6% SLOPE
DA - 1.3 AC
OUT - 15

14.3% SLOPE
DA - 0.2 AC
OUT - 16

28.4% SLOPE
DA - 9.3 AC
9.0 AC TREATED BY PREVIOUS EPSC MEASURES
OUT - 17

WWC-4 (NORTH OF SR-52) SHALL NOT BE DISTURBED UNTIL NEW CHANNEL IS IN PLACE AND STABILIZED AND FLOW HAS BEEN DIVERTED

SR-52 STA. 561+76.14 =
TOM SMITH RD. STA. 72+66.01
N 764284.5478
E 2164185.1421

3.5% SLOPE
DA - 3.3 AC
OUT - 18C

LIMIT OF CONST.
70+10.00

90' OF 18" TEMP. SLOPE DRAIN

PRESENT AND PROPOSED R.O.W.

ROCK CHECKS AT 55' SPACING

PRESENT R.O.W.

PROP. ROW

FILL SLOPE

CUT SLOPE

SR-52

WTL-7

WTL-8

OUT - 18B
DA - 0.7 AC
5.6% SLOPE

OUT - 18A
1.1% SLOPE
DA - 29.5 AC
29.4 AC TREATED BY PREVIOUS EPSC MEASURES

DA - 26.1 AC
CLEAN WATER

75' OF 12" TEMP. SLOPE DRAIN

SC 554+35.70

SC 563+71.26

MATCH LINE STA. 552+50 SEE SHT. NO. 25C

MATCH LINE STA. 565+50 SEE SHT. NO. 25E

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50'

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DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25E
CONST.	2014	APD/NH-52(48)	25E

REV. 12-07-12: ADDED SLOPE LINES FOR STR-4

LIMIT OF WORK
81+00.00
LIMIT OF CONST.
81+20.00

570

575

08

ROCK CHECKS
AT 35' SPACING
8.7% SLOPE
DA - 0.9 AC
OUT - 19

PND-1

STR-4

WTL-9

WTL-10 PROP. ROW

WTL-8

ROCK CHECKS
AT 55' SPACING

OUT - 20
DA - 1.1 AC
4.7% SLOPE

3x30' 18" TEMP.
SLOPE DRAIN

IS 572+22.17

SC 576+02.17

ST 567+32.26

SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786

S 35° 23' 51" E

S 66° 06' 20" W

SR-52

PRESENT R.O.W.

PRESENT AND PROPOSED R.O.W.

PROP. ROW

CUT SLOPE

FILL SLOPE

SF * SF * SF * SF * SF * SF * SF * SF * SF

SFB * SFB * SFB * SFB * SFB * SFB * SFB * SFB * SFB

HVF * HVF * HVF * HVF * HVF * HVF * HVF * HVF * HVF

** SOCK ** SOCK ** SOCK **

MATCH LINE STA. 565+50 SEE SHT. NO. 25D

MATCH LINE STA. 578+50 SEE SHT. NO. 25F

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

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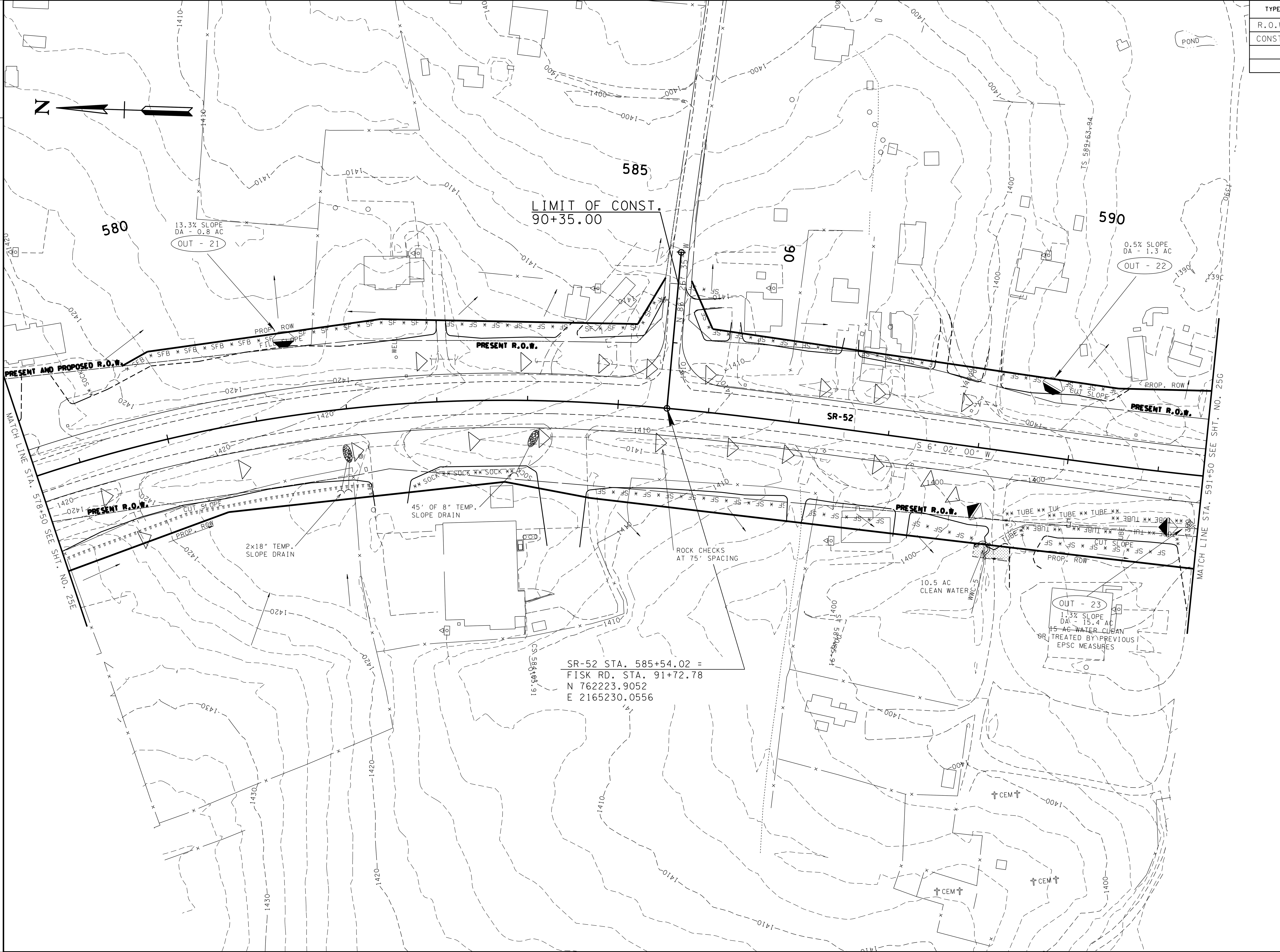
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25F
CONST.	2014	APD/NH-52(48)	25F



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CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25G
CONST.	2014	APD/NH-52(48)	25G

REV. 12-07-12: ADJUSTED SLOPE LINES FOR PVT. DRS. STA. 594+41.02 & 595+25.00, MOVED PVT.DR.STA. 592+60.00 AND ADJUSTED ROW & CONST. ESMT. FOR STR-5 RELOCATION

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW & EPSC MEASURES

REV. 09-18-13: ADDED CONST. ESMT. AND SILT FENCE TRACT 304

REV. 10-04-13: RELOCATED TRAILER LEFT STA. 594+00.00

LIMIT OF CONST.
21+50.00

595

OLD ALLONS RD. STA. 101+32.57 =
SAVAGE LN. STA. 23+37.20
N 761001.6483
E 2165440.0812

600

LIMIT OF CONST.
100+50.00
LIMIT OF WORK
100+35.00

100

110

SR-52 STA. 599+08.30 =
ELMER LANGFORD RD. STA. 110+00.00
N 760895.9318
E 2165312.2147

SR-52 STA. 596+86.45 =
OLD ALLONS RD. STA. 103+94.06
N 761100.5066
E 2165227.1253

LIMIT OF CONST.
111+50.00

MATCH LINE STA. 591+50 SEE SHT. NO. 25F

MATCH LINE STA. 604+50 SEE SHT. NO. 25H

SC 593+58.94

CS 599+80.93

ST 593+75

PRESENT R.O.W.

PROP. ROW

PRESENT & PROP. R.O.W.

CUT SLOPE

FILL SLOPE

ROCK CHECKS AT VARIABLE SPACING

ROCK CHECKS AT 55' SPACING

ROCK CHECKS AT 40' SPAING

ROCK CHECKS AT 50' SPACING

ROCK CHECKS AT 35' SPACING 13.3% SLOPE

70' OF 8" TEMP. SLOPE DRAIN

35' OF 15" TEMP. SLOPE DRAIN

75' OF 12" TEMP. SLOPE DRAIN

OUT - 24
DA - 0.9 AC

OUT - 25
DA - 1.7 AC

WTL-12

WTL-11

WWC-6

POND

SR-52

N 52° 06' 14" W

N 35° 17' 43" W

N 37° 28' 08" W

SFB SEF SVF HVF MFB STR-5

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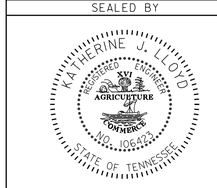

CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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TENNESSEE D.O.T.

DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25H
CONST.	2014	APD/NH-52(48)	25H

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW & EPSC MEASURES

LIMIT OF CONST.
120+50.00

610

615

605

120

2.0% SLOPE
DA - 11.3 AC
ALL WATER CLEAN/
TREATED BY PREV
EPSC MEASURES

OUT - 27

PRESENT & PROP. R.O.W.

ROCK CHECKS AT
VARIABLE SPACING

25' OF 18" TEMP.
SLOPE DRAIN

35' OF 12" TEMP.
SLOPE DRAIN

ROCK CHECKS AT
VARIABLE SPACING

35' OF 18" TEMP.
SLOPE DRAIN

MATCH LINE STA. 604+50 SEE SHT. NO. 25G

S 12° 20' 12" W
S 52° 20' 58" W
S 39° 43' 53" E

FILTER BERM
AT 40' SPACING

ROCK CHECKS
AT 15' SPACING

SR-52

FILTER BERM
AT 40' SPACING

ROCK CHECKS
AT 35' SPACING

ROCK CHECKS
AT 45' SPACING

ROCK CHECKS AT
VARIABLE SPACING

MATCH LINE STA. 617+50 SEE SHT. NO. 25I

PRESENT R.O.W.

FILL SLOPE

PROP. ROW

PRESENT & PROP. R.O.W.

CUT SLOPE

PRESENT R.O.W.

PROP. ROW

SR-52 STA. 608+00.77 =
OLD ALLONS RD. STA. 122+66.10
N 760188.0900
E 2165853.3676

30.0% SLOPE
DA - 0.6 AC

OUT - 25

DA - 2.4 AC
13.3% SLOPE

OUT - 26

ROCK CHECKS AT
VARIABLE SPACING

ROCK CHECKS
AT 15' SPACING

70' OF 18" TEMP.
SLOPE DRAIN

FILTER BERM
AT 50' SPACING

606+96.17

616+40.90

N

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

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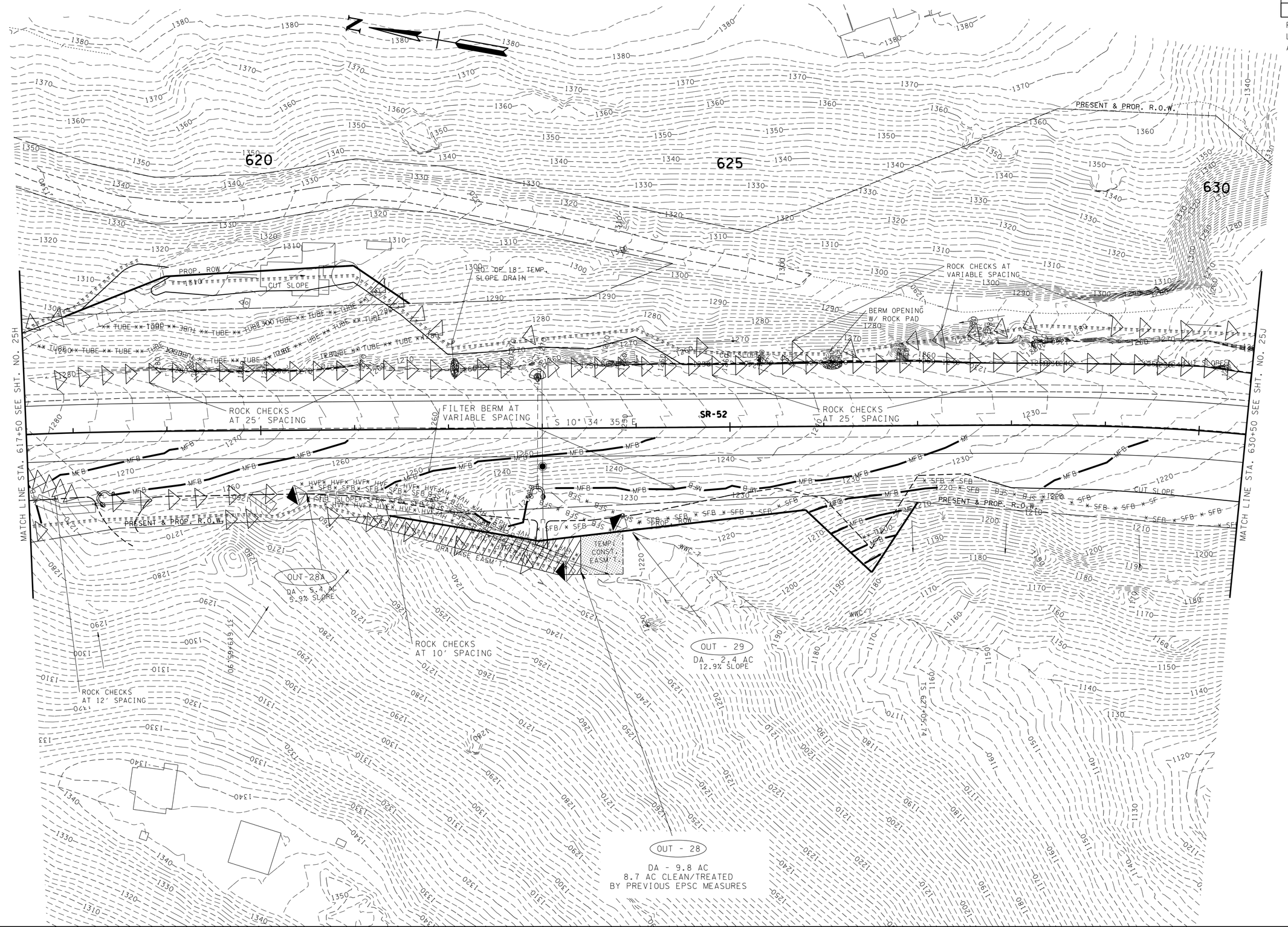
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25I
CONST.	2014	APD/NH-52(48)	25I

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW & EPSC MEASURES



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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25J
CONST.	2014	APD/NH-52(48)	25J

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW & EPSC MEASURES AND RE-ALIGNED FAIRVIEW LN.

REV. 01-17-14: MOVED CULVERT STA. 638+55.00

CONSTRUCTION EASEMENT

N

20' OF 12" TEMP. SLOPE DRAIN

140

S 18° 04' 53" W

S 14° 55' 17" W

LIMIT OF CONST.
142+50.00

635

640

145

2 X 15' OF 18" TEMP. SLOPE DRAIN

SR-52 STA. 639+25.00 =
FAIRVIEW LN. STA. 147+31.84
N 757216.4583
E 2166290.9817

PROP. ROW

PRESENT & PROP. R.O.W.

ROCK CHECKS AT 15' SPACING

ROCK CHECKS AT VARIABLE SPACING

FILL SLOPE

CUT SLOPE

SR-52 STA. 641+23.96 =
ROE LN. STA. 150+00.00
N 757050.9256
E 2166180.7718

FILTER BERMS AT 40' SPACING

SR-52

N 59° 42' 22" W

N 39° 52' 38" W

ROCK CHECKS AT 15' SPACING

ROCK CHECKS AT 50' SPACING

MATCH LINE STA. 630+50 SEE SHT. NO. 25I

MATCH LINE STA. 643+50 SEE SHT. NO. 25K

150

N 10° 05' 13" W

LIMIT OF WORK
153+70.00

USBR TYPE VI BAFFLED DISSIPATOR SEE DETAIL SHEET FOR DIMENSIONS

155

OUT - 30
DA - 3.4 AC
8.4% SLOPE

OUT - 31
23.8% SLOPE
DA - 18.1 AC
ALL WATER CLEAN/
TREATED BY PREVIOUS
EPSC MEASURES

LIMIT OF CONST.
153+00.00

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
4
OWNERS
NO. 106422
STATE OF TENNESSEE

CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50'

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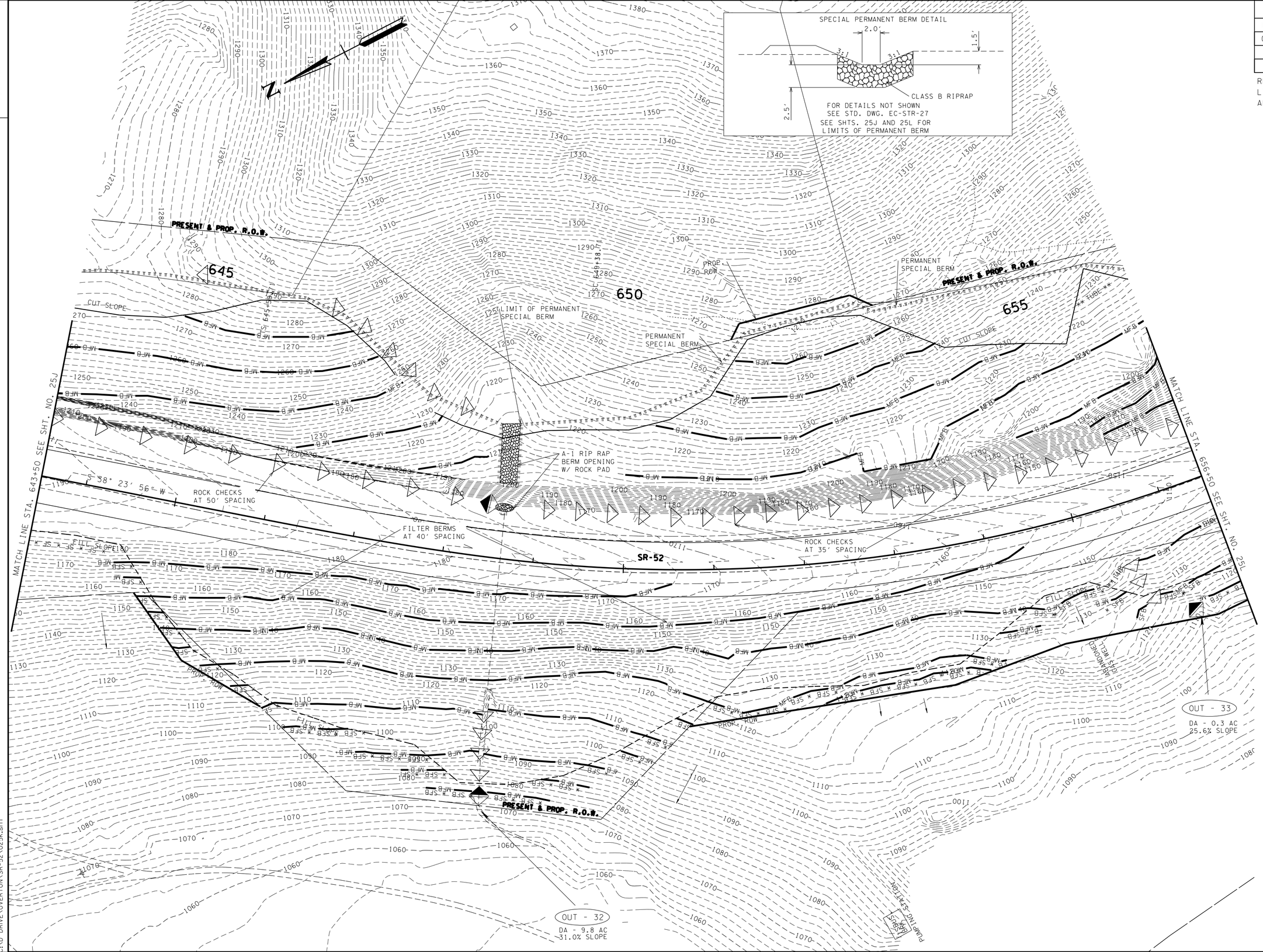
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25K
CONST.	2014	APD/NH-52(48)	25K

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW & EPSC MEASURES



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50'

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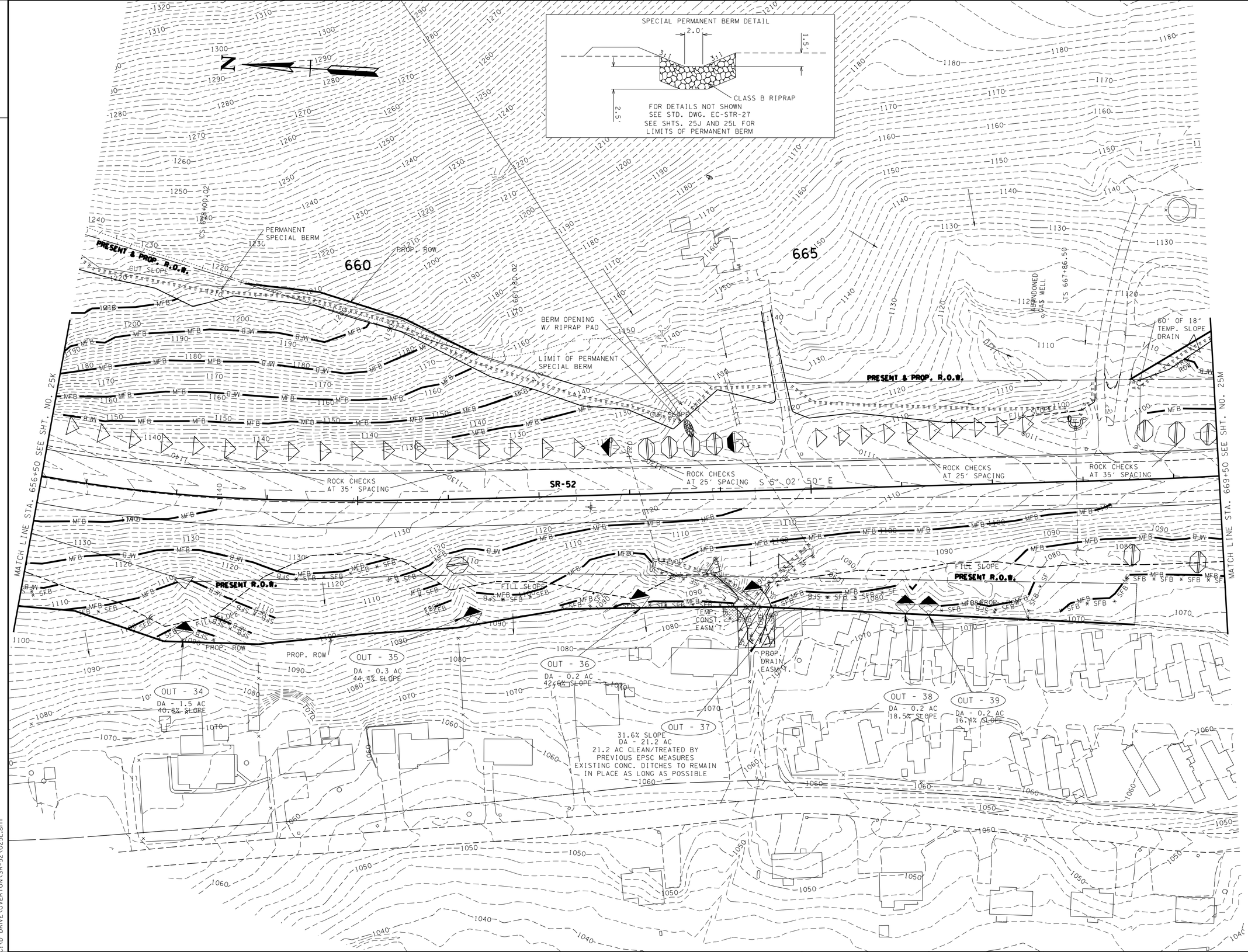
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25L
CONST.	2014	APD/NH-52(48)	25L

REV. 07-15-13: CHANGED CONST. EASEMENT TO ROW LT. APPROXIMATE STATION 660+00.00



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 656+50 TO STA. 669+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25M
CONST.	2014	APD/NH-52(48)	25M

REV. 07-15-13: ADJUSTED SLOPE LINES AND EASEMENT ON HIDDEN VALLEY LN.

SR-52 STA. 670+65.99 =
ALLRED RD. STA. 202+74.56
N 754325.5643
E 2165547.9535

SR-52 STA. 673+81.62 =
HIDDEN VALLEY GOLF & COUNTRY CLUB RD. STA. 160+00.00
N 754019.9093
E 2165625.2465

SR-52 STA. 680+11.94 =
TOWER HILL RD. STA. 170+00.00
N 753466.6250
E 2165921.8042

MATCH LINE STA. 669+50 SEE SHT. NO. 25L

MATCH LINE STA. 682+50 SEE SHT. NO. 25N

SR-52

670

675

680

200

190

170

160

150

FILTER BERM AT 40' SPACING

PROP. ROW

10' OF 18" TEMP. SLOPE DRAIN

PRESENT & PROP. R.O.W.

ROCK CHECKS AT 25' SPACING

LIMIT OF CONST. 200+10.00

40' OF 12" TEMP. SLOPE DRAIN

CUT SLOPE

USE 1.5' DESIGN DEPTH FOR DIVERSION

USE SPECIAL TEMP. BERM DETAIL FROM SHT. 25L FOR THIS SECTION

BERM OPENING

ROCK CHECKS AT 50' SPACING

ROCK CHECKS AT 40' SPACING

FILL SLOPE

CONST. ESMT.

PROP. SLOPE ESMT.

PROP. CONST. ESMT.

50' OF 8" TEMP. SLOPE DRAIN

OUT - 40
DA - 0.1 AC
14.8% SLOPE

OUT - 41
14.0% SLOPE
DA - 9.9 AC
8.7 AC CLEAN/TREATED BY PREVIOUS EPSC MEASURES

OUT - 42
DA - 0.5 AC
12.0% SLOPE

OUT - 44
DA - 0.1 AC
8.3% SLOPE

OUT - 45
12.6% SLOPE
DA - 9.4 AC
9.2 AC CLEAN/TREATED BY PREVIOUS EPSC MEASURES

LIMIT OF CONST. 164+75.00

LIMIT OF CONST. 171+20.00

PT 679+22.47

PC 682+16.90

S 23° 22' 23" W

S 85° 57' 06" W

S 35° 09' 05" E

N 15° 35' 06" W

N 59° 51' 19" W

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KATHERINE J. LLOYD
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TN COMMERCE
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STATE OF TENNESSEE

CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25N
CONST.	2014	APD/NH-52(48)	25N

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

CONSTRUCTION EASEMENT

685

690

695

N

PND-2

PND-3

26.1% SLOPE
DA - 9.9 AC
9.7 AC CLEAN/TREATED BY PREVIOUS EPSC MEASURES
OUT - 46

USE 1.5' DESIGN DEPTH FOR DIVERSION

35' OF 15" TEMP. SLOPE DRAIN

30' OF 8" TEMP. SLOPE DRAIN

ROCK CHECKS AT 15' SPACING

SR-52 STA. 693+58.94 =
CASH ST. STA. 190+00.00
N 752260.6225
E 2166496.9731

PRESENT & PROP. R.O.W.

FILL SLOPE

SR-52

MATCH LINE STA. 682+50 SEE SHT. NO. 25M

MATCH LINE STA. 695+50 SEE SHT. NO. 25P

PC 190+30.63
PT 190+59.28

PT 692+99.54

55' OF 8" TEMP. SLOPE DRAIN

OUT - 47
DA - 0.2 AC
3.0% SLOPE

LIMIT OF CONST.
191+15.00

LIMIT OF PAVING
192+00.00

190

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STATE OF TENNESSEE

CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	25P
CONST.	2014	APD/NH-52(48)	25P

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL

THE CONTRACTOR MUST USE EXTREME CAUTION WHILE GRADING IN THE VICINITY OF THE TVA POLE STA. 697+91.36 (LT) AND USE STABILIZING MEASURES TO ENSURE THE POLE DOES NOT LEAN OR TILT. THE BLACK PROTECTIVE COATING (RUST PREVENTATIVE) MUST NOT BE DAMAGED IN ANY WAY. IF BY CHANCE THE SEAL OF THE COATING IS BROKEN, TVA MUST BE CONTACTED AS SOON AS POSSIBLE SO ARRANGEMENTS CAN BE MADE TO REPAIR THE DAMAGED AREA.

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

700

SR-111 STA. 217+94.30 =
SR52NCHURCH STA. 800+00.00
N 751204.9213
E 2166754.5121

9.1% SLOPE
DA - 5.3 AC
OUT - 48

220

LIMIT OF CONST.
219+75.00

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076

800

POT 704+46.39

POT 802+50.00

LIMIT OF PAVE
802+25.00

PRESENT & PROP. R.O.W.

MATCH LINE STA. 695+50 SEE SHT. NO. 25N

S 13° 29' 55" E

S 13° 18' 40" E

N 68° 00' 56" E

20' OF 18" TEMP. SLOPE DRAIN

15' OF 15" TEMP. SLOPE DRAIN

ROCK CHECKS AT VARIABLE SPACING

25' OF 8" TEMP. SLOPE DRAIN

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127
E 2166750.8076

215

OUT - 50
DA - 0.3 AC
9.1% SLOPE

SR-111 STA. 217+90.22 =
SR-52 STA. 704+46.39
N 751203.2127
E 2166750.8076

LIMIT OF CONST.
215+50.00

WTL-13
WTL-14
WTL-15
WTL-16
WTL-17

STR-6
STR-7

FILL SLOPE
CUT SLOPE

N

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XVI AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 695+50 TO STA. 704+46.39

SCALE: 1"= 50'

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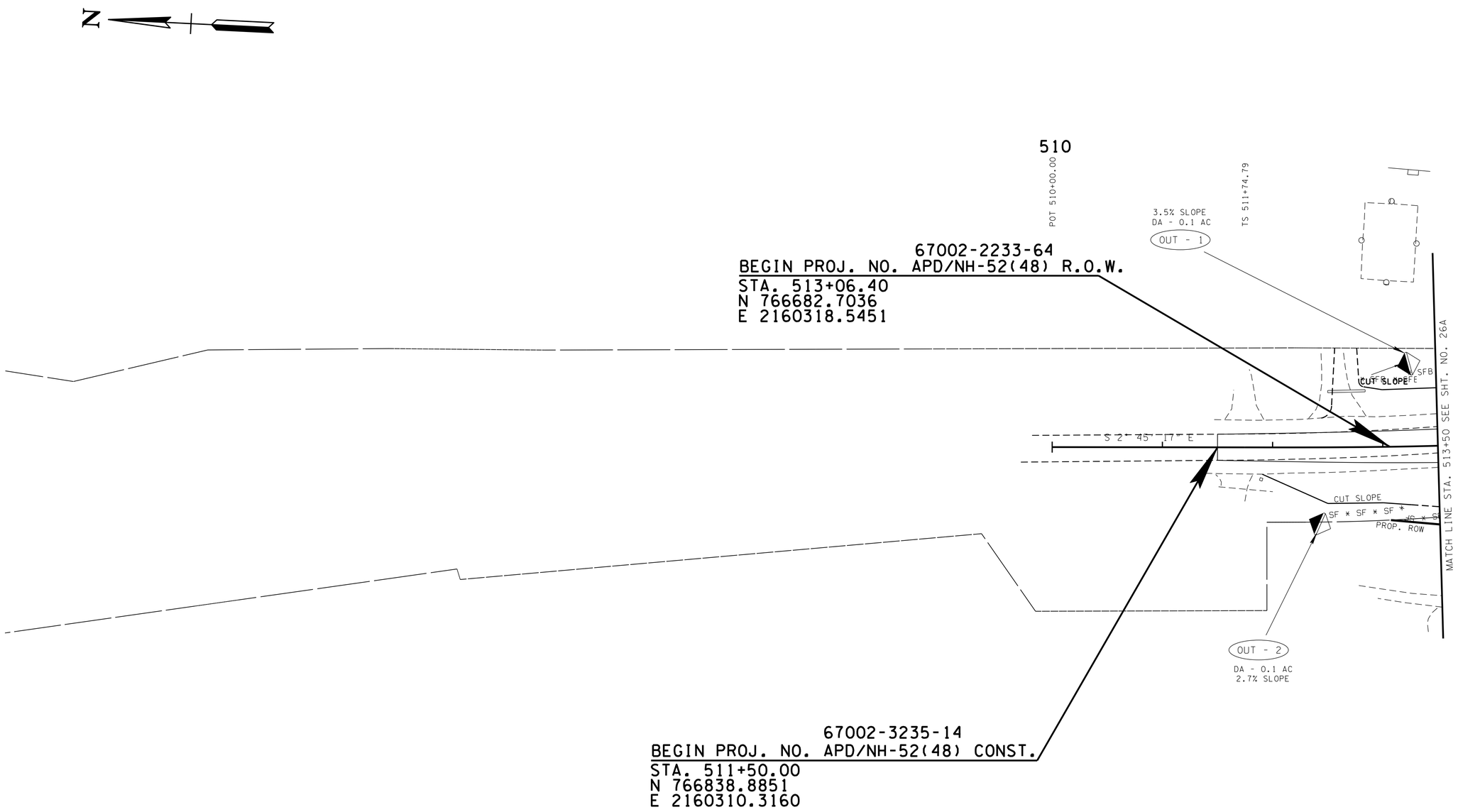
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26
CONST.	2014	APD/NH-52(48)	26

REV. 12-07-12: CORRECTED BEG. PROJ. NORTHING & EASTING LABELS



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PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50'

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DESIGN DIVISION
FILE NO.

PROP. CULVERT CONSTRUCTION NOTES:

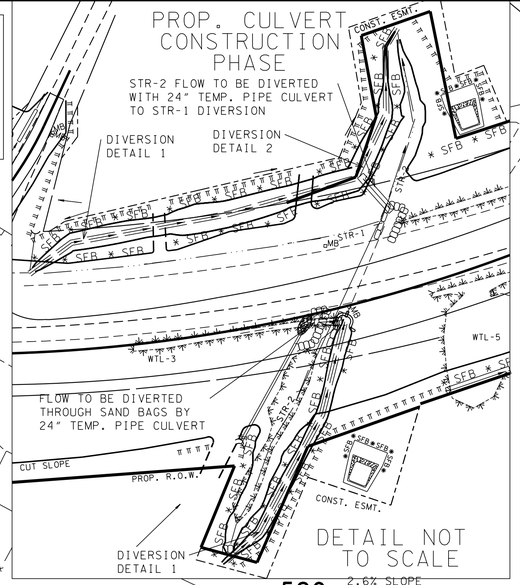
1. FLAGGERS TO BE USED TO INTSTALL PORTION OF CULVERT UNDER TRAFFIC
2. DIVERSIONS TO REMAIN IN PLACE UNTIL RELOCATIONS HAVE BEEN STABILIZED

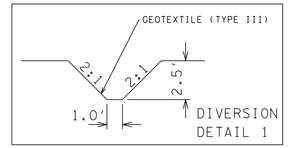
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26A
CONST.	2014	APD/NH-52(48)	26A

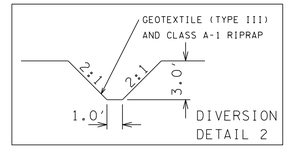
REV. 12-07-12: ADJUSTED SLOPE LINES, ROW & CONST. ESMT. FOR STR-1 & STR-2 RELOCATIONS

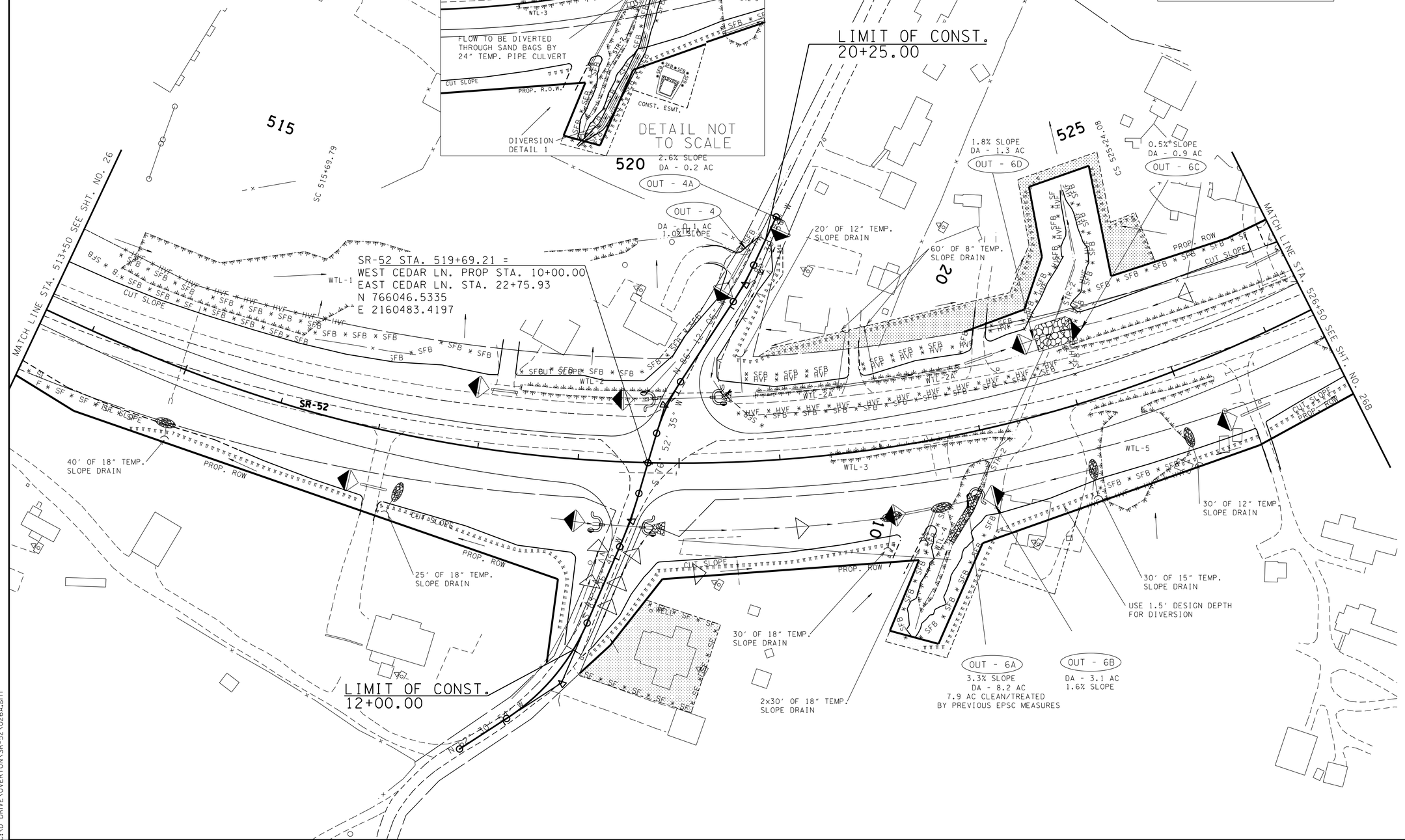
REV. 07-15-13: CORRECTED ROW AND EASEMENT LINEWORK EAST CEDAR LANE

REV. 09-18-13: ADDED CONST. ESMT. AND SILT FENCE TRACT 107









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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109425
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26B
CONST.	2014	APD/NH-52(48)	26B

REV. 12-07-12: ADDED SLOPE LINES FOR ANDREW COVE RD. PVT. DR. & BOTH TOWER HILL RD. PVT. DRS.

LIMIT OF CONST.
40+50.00

OUT - 7
DA - 7.2 AC
6.7 AC CLEAN/TREATED BY PREVIOUS EPSC MEASURES
8.5% SLOPE
4.0% SLOPE
DA - 0.2 AC

OUT - 8

OUT - 9
DA - 1.8 AC
3.1% SLOPE

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

SR-52 STA. 528+65.03 =
OLD SR-52 STA. 43+46.36
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

PROP. CULVERT
CONSTRUCTION PHASE

DITCH FLOW TO BE DIVERTED THROUGH SANDBAGS TO EXISTING CULVERT WITH 18" TEMP. PIPE CULVERT

TYPE 2 ECB W/ CROWN VETCH ON 2:1 SLOPES

1.6% SLOPE
DA - 9.5 AC

OUT - 10

2.7% SLOPE
DA - 1.8 AC

OUT-10A

OUT-10B
DA - 2.44 AC
3.5% SLOPE

OUT-10C
DA - 0.97 AC
1.5% SLOPE

MATCH LINE STA. 526+50 SEE SHT. NO. 26A

MATCH LINE STA. 539+50 SEE SHT. NO. 26C

SR-52

S 60° 05' 58" E

S 30° 03' 24" W

S 29° 54' 00" W

S 29° 51' 17" W

3 X 20' OF 18" TEMP. SLOPE DRAIN

45' OF 15" TEMP. SLOPE DRAIN

35' OF 12" TEMP. SLOPE DRAIN

20' OF 18" TEMP. SLOPE DRAIN

20' OF 8" TEMP. SLOPE DRAIN

45' OF 8" TEMP. SLOPE DRAIN

30 ' OF 8" TEMP. SLOPE DRAIN

30' OF 8" TEMP. SLOPE DRAIN

PROP. CULVERT
CONSTRUCTION PHASE

DITCH FLOW TO BE DIVERTED THROUGH SANDBAGS TO EXISTING CHANNEL WITH 18" TEMP. PIPE CULVERT

DITCH FLOW TO BE DIVERTED THROUGH SANDBAGS TO EXISTING CULVERT WITH 18" TEMP. PIPE CULVERT

LIMIT OF CONST.
32+25.00

LIMIT OF CONST.
52+00.00

SR-52 STA. 530+40.86 =
TOWER HILL RD STA. 50+00.00
N 765350.0572
E 2161274.6023

CONSTRUCTION NOTES:
1. FLAGGERS TO BE USED TO INTSTALL PORTION OF CULVERT UNDER TRAFFIC
2. DIVERSIONS TO REMAIN IN PLACE UNTIL RELOCATIONS HAVE BEEN STABILIZED

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109473
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 526+50 TO STA. 539+50
SCALE: 1"= 50'

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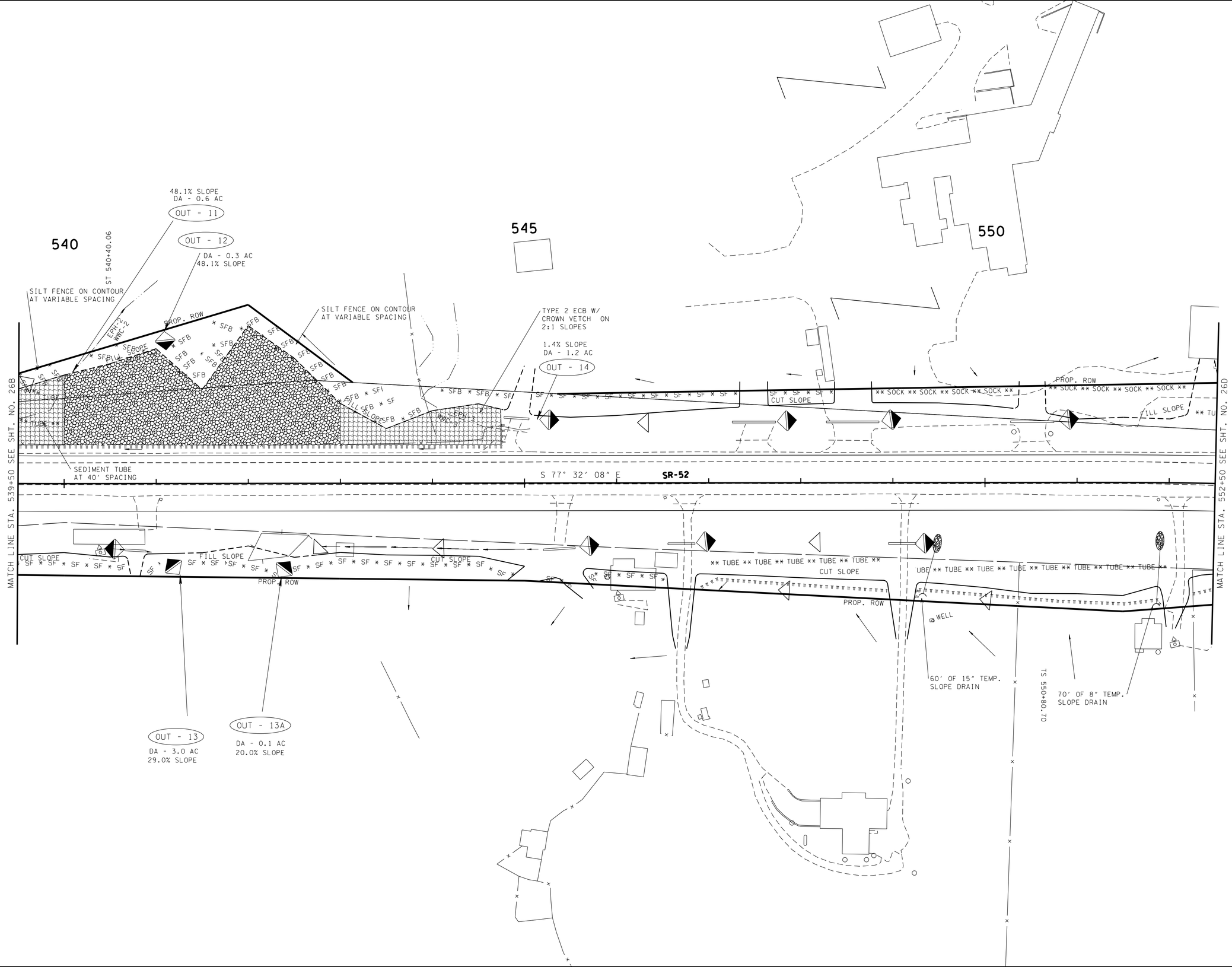
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26C
CONST.	2014	APD/NH-52(48)	26C

REV. 07-15-13: ADDED ROCK FILL SLOPE AND REVISED EPSC MEASURES

REV. 01-21-15: CHANGED PVT. DRIVE STA'S. 546+70.67 AND 549+11.05 TO 12' WIDTH. ADDED SPLIT TO FIELD ENT. STA. 545+41.28.



UNOFFICIAL SET

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KATHERINE J. LLOYD
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No. 106471
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26D
CONST.	2014	APD/NH-52(48)	26D

REV. 01-17-14: CHANGED CONST. ESMT. TO DRAIN. ESMT. TRACT 84

N

555

560

565

570

3.6% SLOPE
DA - 1.3 AC
OUT - 15

14.3% SLOPE
OUT - 16
DA - 0.2 AC

28.4% SLOPE
DA - 9.3 AC
9.0 AC TREATED BY PREVIOUS EPSC MEASURES
OUT - 17

3.5% SLOPE
DA - 3.3 AC
OUT - 18C

WWC-4 (NORTH OF SR-52) SHALL NOT BE DISTURBED UNTIL NEW CHANNEL IS IN PLACE AND STABILIZED AND FLOW HAS BEEN DIVERTED

SR-52 STA. 561+76.14 =
TOM SMITH RD. STA. 72+66.01
N 764284.5478
E 2164185.1421

LIMIT OF CONST.
70+10.00

STR-3

FILL SLOPE

CUT SLOPE

PROP. ROW

SR-52

ROCK CHECKS AT 40' SPACING

90' OF 18" TEMP. SLOPE DRAIN

ROCK CHECKS AT 50' SPACING

40' OF 12" TEMP. SLOPE DRAIN

WTL-7

OUT - 18B
DA - 0.1 AC
5.6% SLOPE

OUT - 18A
1.1% SLOPE
DA - 29.5 AC
29.4 AC TREATED BY PREVIOUS EPSC MEASURES

DA - 26.1 AC
CLEAN WATER

WTL-8

MATCH LINE STA. 552+50 SEE SHT. NO. 26C

MATCH LINE STA. 565+50 SEE SHT. NO. 26E

SC 554+35.70

SC 563+77.26

PROP. CULVERT CONSTRUCTION PHASE

DRAIN. ESMT.
CONST. ESMT.
DITCH FLOW TO BE DIVERTED THROUGH SANDBAGS WITH A 24" TEMP. PIPE CULVERT TO EXISTING CULVERT
CONST. ESMT.

PROP. CULVERT CONSTRUCTION PHASE

MAINTIAN EXISTING FLOW AND CONSTRUCT PROP. CHANNEL AND NEW ENTANCE PIPE. DIVERT FLOW FROM EXISTING PIPES TO NEW CHANNEL AND CONSTRUCT PROP. PIPE OUTLET.
CONST. ESMT.
24" CMP
CUT SLOPE
PROP. R.O.W.
CONST. ESMT.
TO BE CONSTRUCTED IN THE DRY

CONSTRUCTION NOTES:
1. FLAGGERS TO BE USED TO INTSTALL PORTION OF CULVERT UNDER TRAFFIC
2. DIVERSIONS TO REMAIN IN PLACE UNTIL RELOCATIONS HAVE BEEN STABILIZED

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
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STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 552+50 TO STA. 565+50
SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26E
CONST.	2014	APD/NH-52(48)	26E

REV. 12-07-12: ADDED SLOPE LINES FOR STR-4

LIMIT OF WORK
81+00.00
LIMIT OF CONST.
81+20.00

575

570

ROCK CHECKS
AT 30' SPACING

8.7% SLOPE
DA - 0.9 AC
OUT - 19

ECB TYPE 2 ON
FILL SLOPES ABOVE
WETLANDS

POND-1

WTL-9

WTL-10 PROP. ROW

STR-4

CUT SLOPE

FILL SLOPE

CUT SLOPE

S 66° 06' 20" W

S 35° 23' 39" E

S 35° 23' 51" E

SR-52

MATCH LINE STA. 565+50 SEE SHT. NO. 26D

MATCH LINE STA. 578+50 SEE SHT. NO. 26F

PROP. ROW

ROCK CHECKS
AT 50' SPACING

WTL-8

ST 567+32.26

TS 572+22.17

SC 576+02.17

OUT - 20

OUT - 20A
DA - 3.4 AC
3.9% SLOPE
3x30' 18" TEMP.
SLOPE DRAIN

DA - 1.1 AC
4.7% SLOPE

SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786

PROP. CULVERT
CONSTRUCTION PHASE

24" TEMP. PIPE
CULVERT

CONST. ESMT.

DRAIN. ESMT.

CONST.
ESMT.

CONSTRUCTION NOTES:
1. FLAGGERS TO BE USED TO INTSTALL PORTION OF CULVERT UNDER TRAFFIC
2. DIVERSIONS TO REMAIN IN PLACE UNTIL RELOCATIONS HAVE BEEN STABILIZED

UNOFFICIAL SET
NOT FOR BIDDING

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NO. 106422
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

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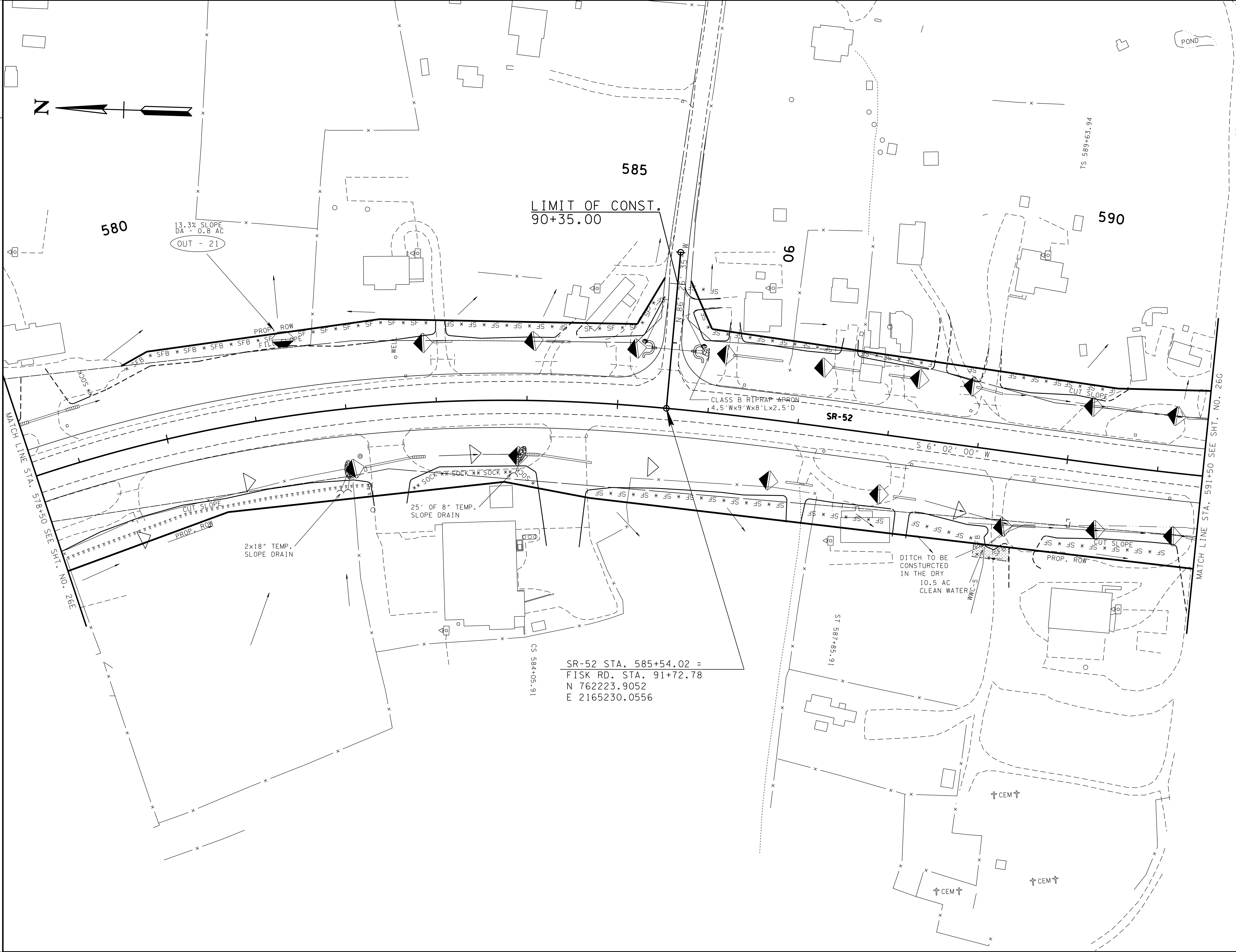
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26F
CONST.	2014	APD/NH-52(48)	26F



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KATHERINE J. LLOYD
REGISTERED ENGINEER
NO. 106423
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26G
CONST.	2014	APD/NH-52(48)	26G

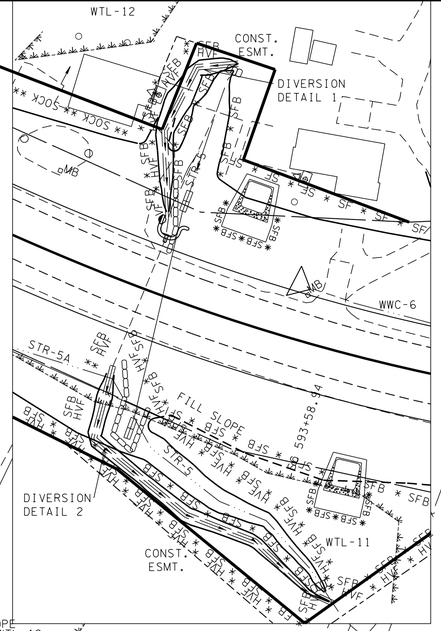
REV. 12-07-12: ADJUSTED SLOPE LINES FOR PVT. DRS. STA. 594+41.02 & 595+25.00, MOVED PVT. DR. STA. 592+60.00 AND ADJUSTED ROW & CONST. ESMT. FOR STR-5 RELOCATION

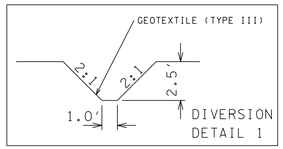
REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW & EPSC MEASURES

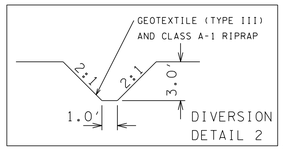
REV. 09-18-13: ADDED CONST. ESMT. AND SILT FENCE TRACT 304

REV. 10-04-13: RELOCATED TRAILER LEFT STA. 594+00.00

PROP. CULVERT CONSTRUCTION PHASE







CONSTRUCTION NOTES:
1. FLAGGERS TO BE USED TO INTSTALL PORTION OF CULVERT UNDER TRAFFIC
2. DIVERSIONS TO REMAIN IN PLACE UNTIL RELOCATIONS HAVE BEEN STABILIZED

LIMIT OF CONST.
21+50.00

595

OLD ALLONS RD. STA. 101+32.57 =
SAVAGE LN. STA. 23+37.20
N 761001.6483
E 2165440.0812

4.1% SLOPE
WTL-12
DA - 1.9 AC
OUT - 23A

40' OF 8" TEMP. SLOPE DRAIN

35' OF 15" TEMP. SLOPE DRAIN

ROCK CHECKS AT 30' SPACING

PROP. ROW

CUT SLOPE

N 53° 06' 14" W 596.59'

N 35° 17' 43" W

600

LIMIT OF CONST.
100+50.00
LIMIT OF WORK
100+35.00

CS 599+80.93

ST 603+15.93

TYPE 2 ECB W/ CROWN VETCH ON 2:1 SLOPES

V- RIP RAP CLASS B

ROCK CHECKS AT VARIABLE SPACING

ROCK CHECKS AT 25' SPACING

100

MATCH LINE STA. 591+50 SEE SHT. NO. 26F

DA - 1.1 AC

WWC-6

STR-5A

FILL SLOPES

WTL-11

STR-5

OUT - 23
1.3% SLOPE
DA - 15.4 AC
15 AC WATER CLEAN OR TREATED BY PREVIOUS EPSC MEASURES

POND

ROCK CHECKS AT 60' SPAING

SR-52 STA. 596+86.45 =
OLD ALLONS RD. STA. 103+94.06
N 761100.5066
E 2165227.1253

LIMIT OF CONST.
111+50.00

S 72° 24' 27" W

S 74° 56' 08" W

75' OF 12" TEMP. SLOPE DRAIN

SR-52

S 29° 22' 18" W 478.8'

110

FILL SLOPE

CUT SLOPE

PROP. ROW

ROCK CHECKS AT 35' SPACING

OUT - 24
DA - 0.9 AC
13.3% SLOPE

ROCK CHECKS AT 35' SPACING

SR-52 STA. 599+08.30 =
ELMER LANGFORD RD. STA. 110+00.00
N 760895.9318
E 2165312.2147

MATCH LINE STA. 604+50 SEE SHT. NO. 26H

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COMMERCE
NO. 109423
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

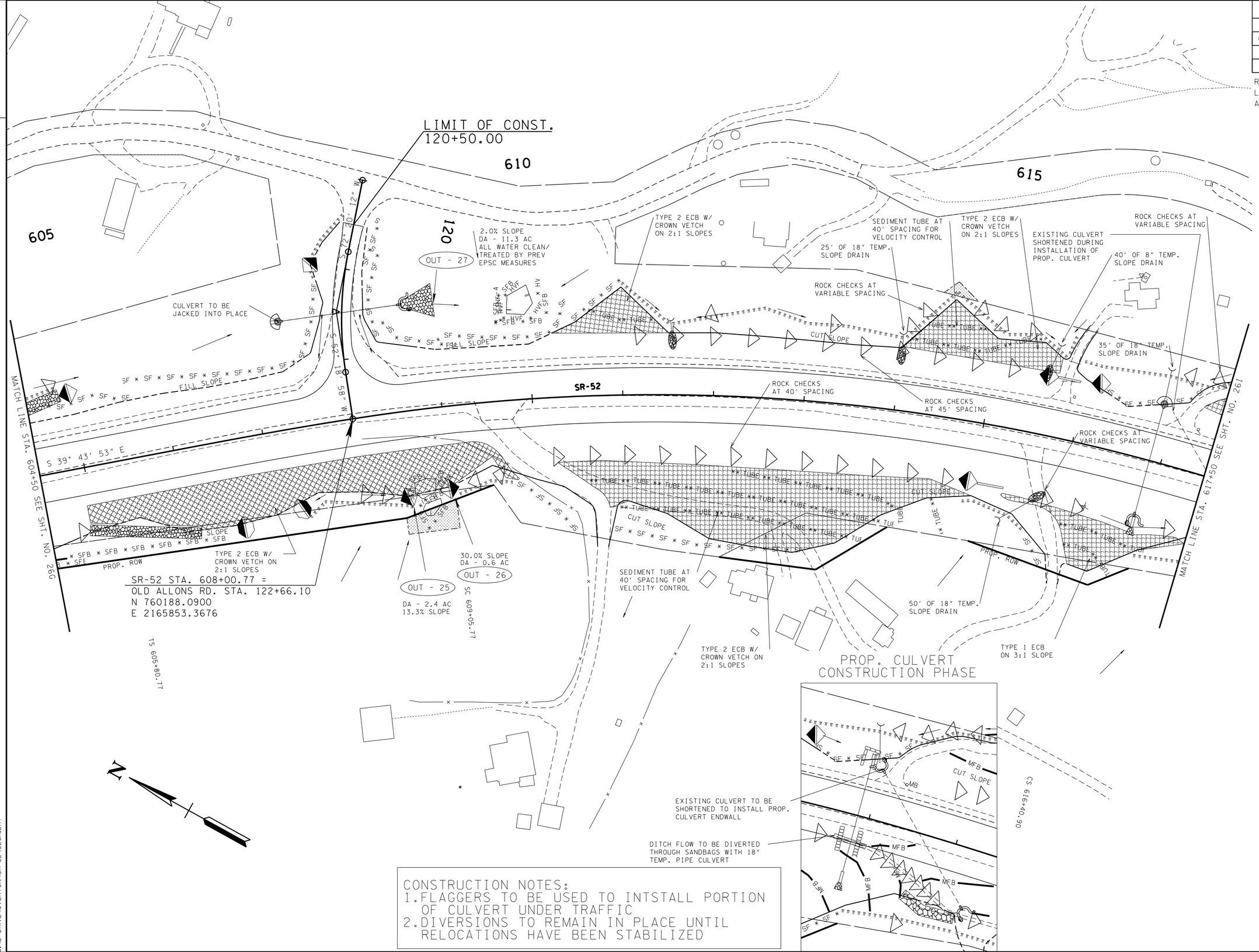
STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26H
CONST.	2014	APD/NH-52(48)	26H

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW & EPSC MEASURES



CONSTRUCTION NOTES:
1. FLAGGERS TO BE USED TO INTSTALL PORTION OF CULVERT UNDER TRAFFIC
2. DIVERSIONS TO REMAIN IN PLACE UNTIL RELOCATIONS HAVE BEEN STABILIZED

UNOFFICIAL SET
NOT FOR BIDDING

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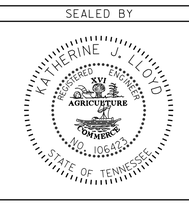

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

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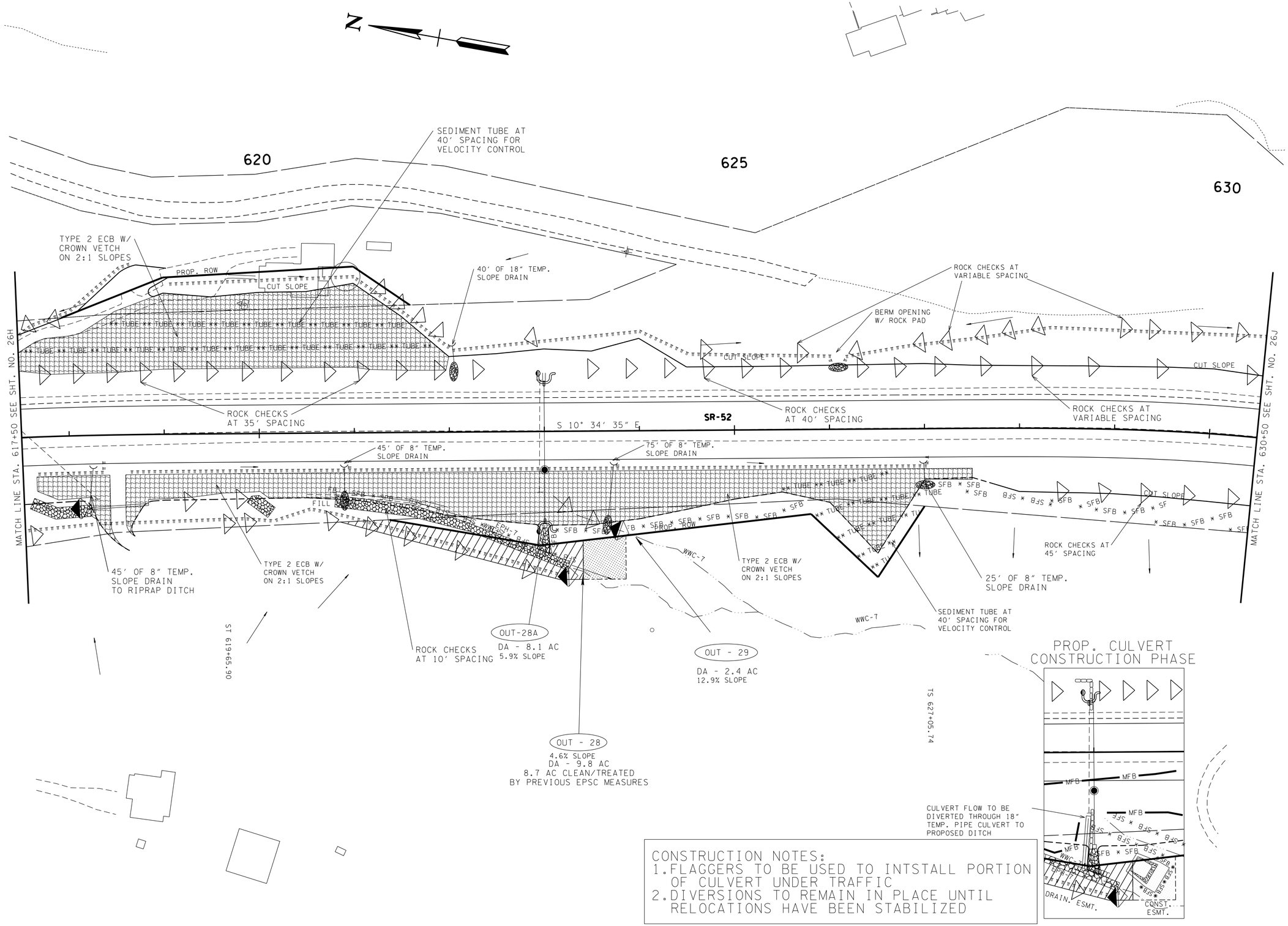
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26I
CONST.	2014	APD/NH-52(48)	26I

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW & EPSC MEASURES



CONSTRUCTION NOTES:
1. FLAGGERS TO BE USED TO INTSTALL PORTION OF CULVERT UNDER TRAFFIC
2. DIVERSIONS TO REMAIN IN PLACE UNTIL RELOCATIONS HAVE BEEN STABILIZED

UNOFFICIAL SET
NOT FOR BIDDING

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
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COMMERCE
NO. 106423
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26J
CONST.	2014	APD/NH-52(48)	26J

REV. 12-07-12: ADDED HAUL ROAD

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW & EPSC MEASURES AND RE-ALIGNED FAIRVIEW LN.

REV. 01-17-14: MOVED CULVERT STA. 638+55.00 AND OUTLET DITCH

CONSTRUCTION EASEMENT

20' OF 12" TEMP. SLOPE DRAIN

PROP. ROW

140

S 18° 04' 53" W

S 14° 55' 17" W

LIMIT OF CONST.
142+50.00

635

2 X 25' OF 18" TEMP. SLOPE DRAIN

FILTER SOCK AT VARIABLE SPACING FOR VELOCITY CONTROL

640

145

TYPE 2 ECB W/ CROWN VETCH ON 2:1 SLOPES

TYPE 3 ECB W/ CROWN VETCH ON 2:1 SLOPES

SR-52 STA. 639+25.00 =
FAIRVIEW LN. STA. 147+31.84
N 757216.4583
E 2166290.9817

N 59° 42' 22" W

ROCK CHECKS AT VARIABLE SPACING

CUT SLOPE

SR-52

SR-52 STA. 641+23.96 =
ROE LN. STA. 150+00.00
N 757050.9256
E 2166180.7718

N 38° 39' 02" W

ROCK CHECKS AT VARIABLE SPACING

50' OF 18" TEMP. SLOPE DRAIN TO RIPRAP DITCH

MATCH LINE STA. 630+50 SEE SHT. NO. 26I

MATCH LINE STA. 643+50 SEE SHT. NO. 26K

FILL SLOPE

150

SC 631+00.74

OUT - 30A
DA - 2.6 AC
47.6% SLOPE

HAUL ROAD

USBR TYPE VI BAFFLED DISSIPATOR SEE DETAIL SHEET FOR DIMENSIONS

25' OF 8" TEMP. SLOPE DRAIN OUTLET ON ROCK SLOPE

LIMIT OF WORK
153+70.00

OUT - 30
DA - 3.4 AC
8.4% SLOPE

155

ST 643+25.13

CS 639+30.13

LIMIT OF CONST.
153+00.00

OUT - 31
23.8% SLOPE
DA - 18.1 AC
ALL WATER CLEAN/ TREATED BY PREVIOUS EPSC MEASURES

N

UNOFFICIAL SET

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XVI
AGRICULTURE
OWNERS
NO. 108425
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50'

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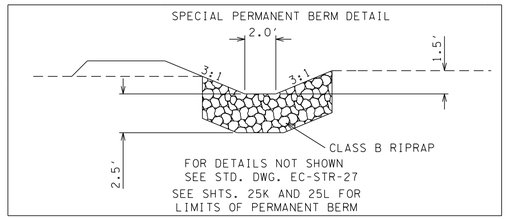
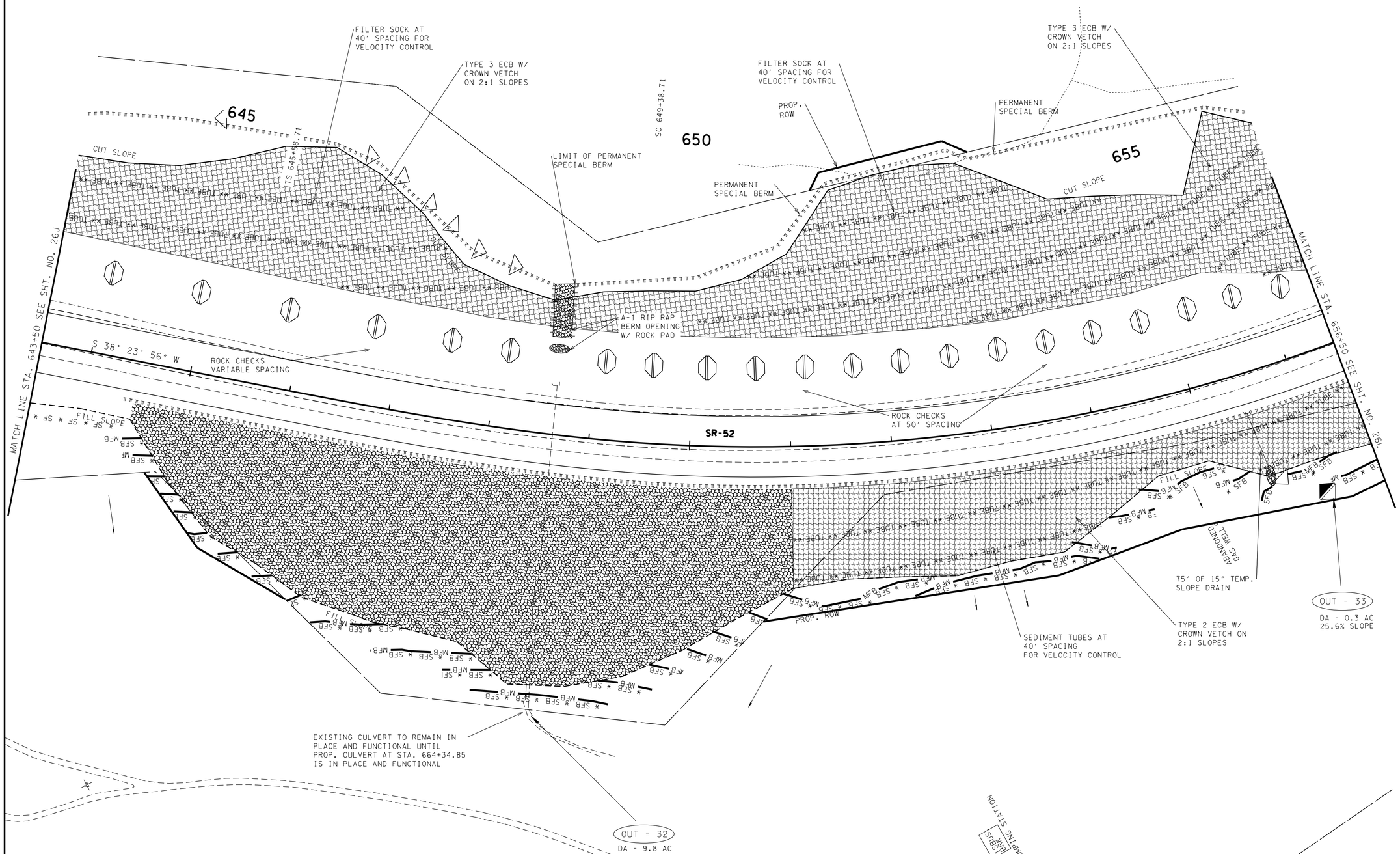
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26K
CONST.	2014	APD/NH-52(48)	26K

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW & EPSC MEASURES AND ADDED ROCK FILL SLOPE





UNOFFICIAL SET

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PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50'

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

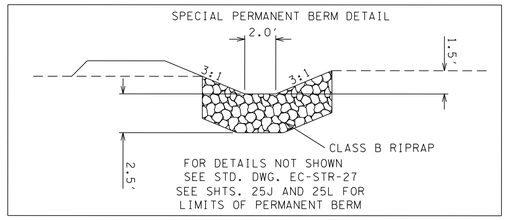
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26L
CONST.	2014	APD/NH-52(48)	26L

REV. 07-15-13: CHANGED CONST. EASEMENT TO ROW LT. APPROXIMATE STATION 660+00.00

N

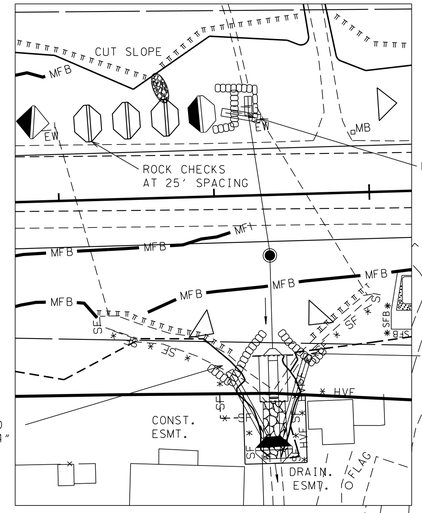
CONSTRUCTION NOTES:
1. FLAGGERS TO BE USED TO INTSTALL PORTION OF CULVERT UNDER TRAFFIC
2. DIVERSIONS AND PUMP-AROUNDS TO REMAIN IN PLACE UNTIL RELOCATIONS HAVE BEEN STABILIZED

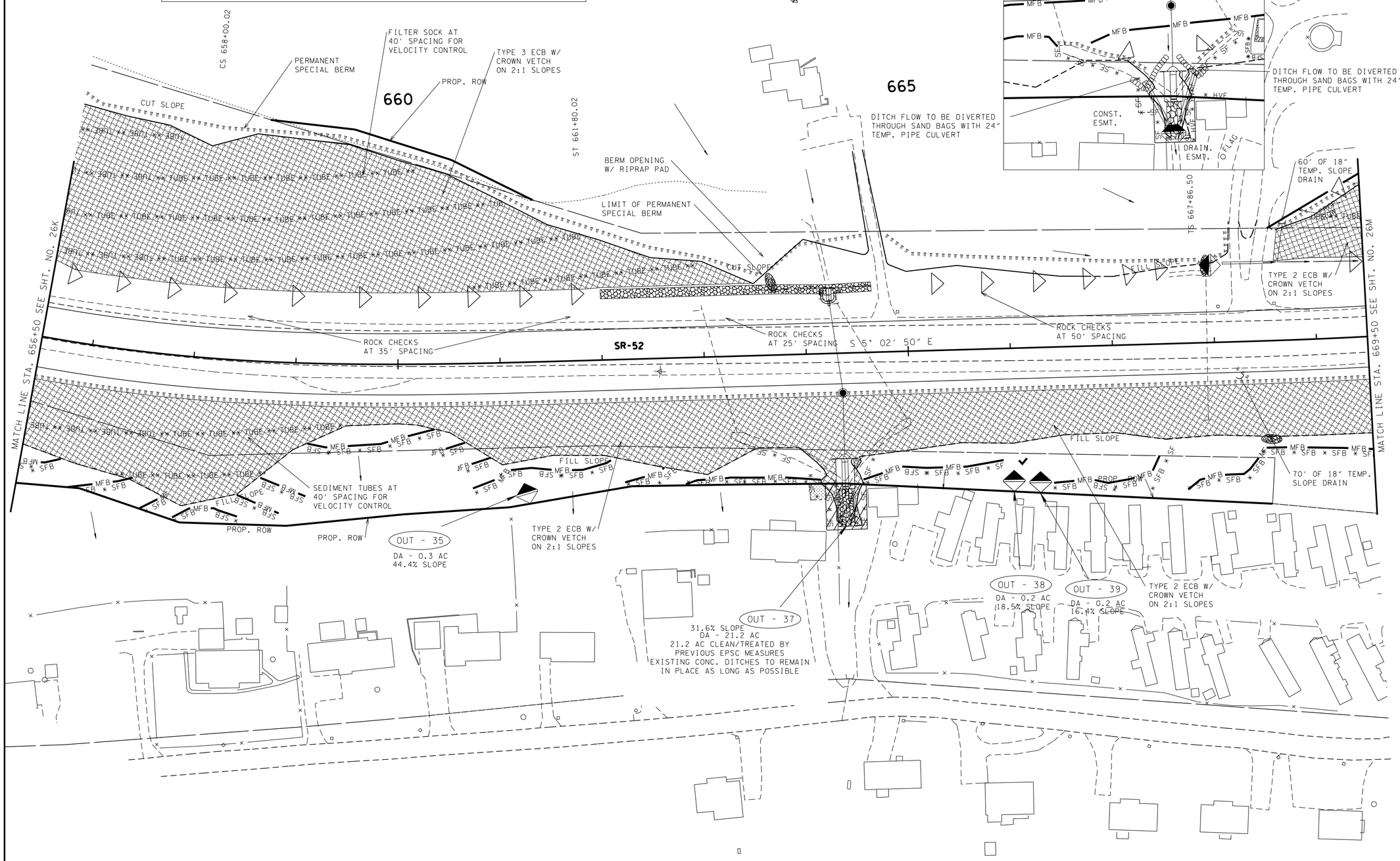
SPECIAL PERMANENT BERM DETAIL



FOR DETAILS NOT SHOWN SEE STD. DWG. EC-STR-27
SEE SHTS. 25J AND 25L FOR LIMITS OF PERMANENT BERM

PROP. CULVERT CONSTRUCTION PHASE





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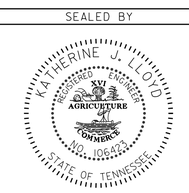

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 656+50 TO STA. 669+50

SCALE: 1"= 50'

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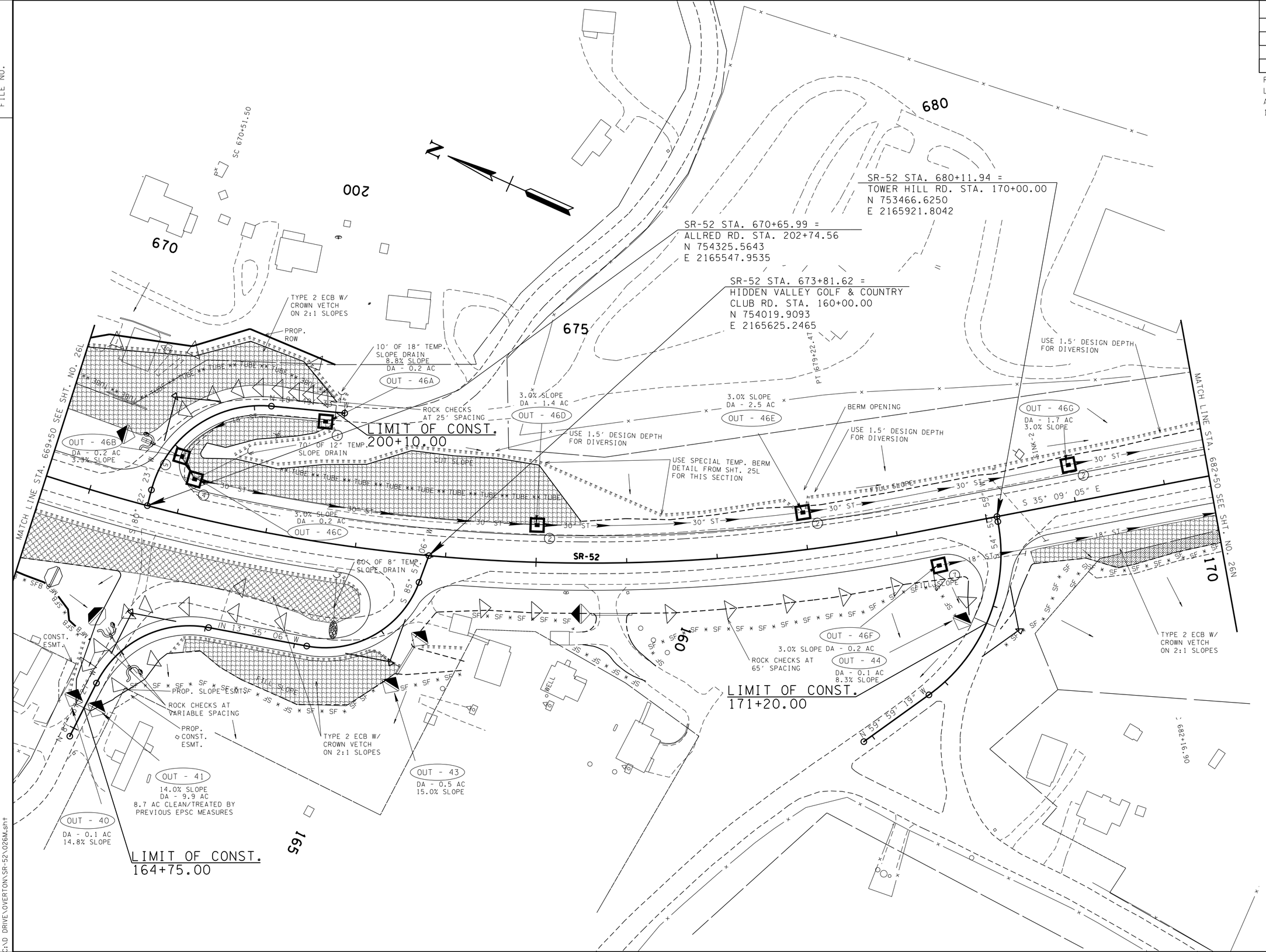
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26M
CONST.	2014	APD/NH-52(48)	26M

REV. 07-15-13: ADJUSTED SLOPE LINES, EASEMENT & EPSC MEASURES AND ADDED CROSS DRAIN STA. 164+00.00 ON HIDDEN VALLEY LN.



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KATHERINE J. LLOYD
REGISTERED ENGINEER
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106423
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50'

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TENNESSEE D.O.T.
DESIGN DIVISION

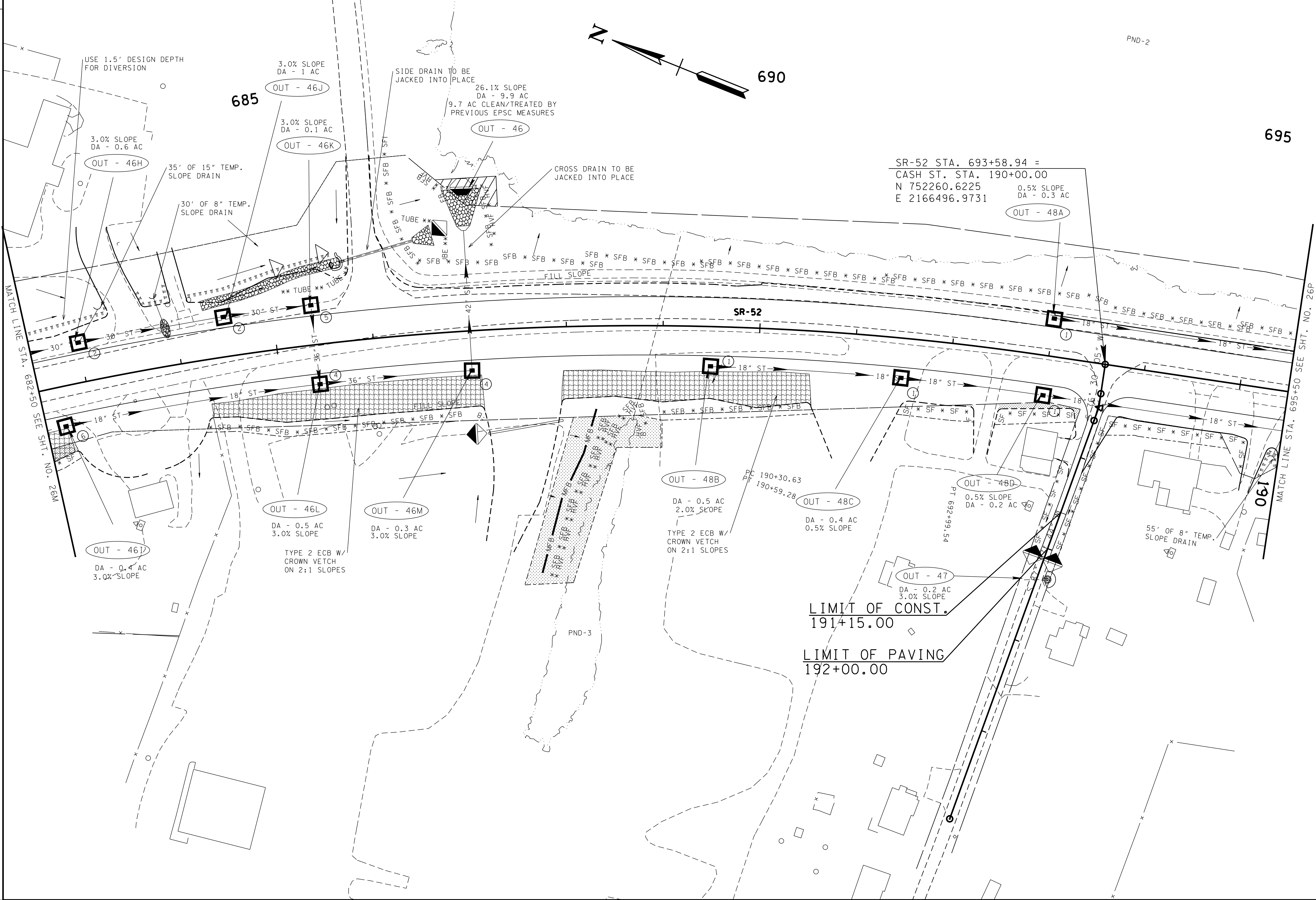
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26N
CONST.	2014	APD/NH-52(48)	26N

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL & ADJUSTED EPSC MEASURES

CONSTRUCTION EASEMENT

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION



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REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	26P
CONST.	2014	APD/NH-52(48)	26P

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL & ADJUSTED EPSC MEASURES

THE CONTRACTOR MUST USE EXTREME CAUTION WHILE GRADING IN THE VICINITY OF THE TVA POLE STA. 697+91.36 (LT) AND USE STABILIZING MEASURES TO ENSURE THE POLE DOES NOT LEAN OR TILT. THE BLACK PROTECTIVE COATING (RUST PREVENTATIVE) MUST NOT BE DAMAGED IN ANY WAY. IF BY CHANCE THE SEAL OF THE COATING IS BROKEN, TVA MUST BE CONTACTED AS SOON AS POSSIBLE SO ARRANGEMENTS CAN BE MADE TO REPAIR THE DAMAGED AREA.

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

LIMIT OF CONST.
219+75.00

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076

SR-111 STA. 217+94.30 =
SR52NCHURCH STA. 800+00.00
N 751204.9213
E 2166754.5121

LIMIT OF PAVE
802+25.00

MATCH LINE STA. 695+50 SEE SHT. NO. 26N

PROP. CULVERT CONSTRUCTION PHASE

CONSTRUCTION NOTES:
1. FLAGGERS TO BE USED TO INTSTALL PORTION OF CULVERT UNDER TRAFFIC
2. DIVERSIONS AND PUMP-AROUNDS TO REMAIN IN PLACE UNTIL RELOCATIONS HAVE BEEN STABILIZED

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127
E 2166750.8076

SR-111 STA. 217+90.22 =
SR-52 STA. 704+46.39
N 751203.2127
E 2166750.8076

LIMIT OF CONST.
215+50.00

UNOFFICIAL SET
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COMMERCE
NO. 106423
STATE OF TENNESSEE

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 695+50 TO STA. 704+46
SCALE: 1"= 50'

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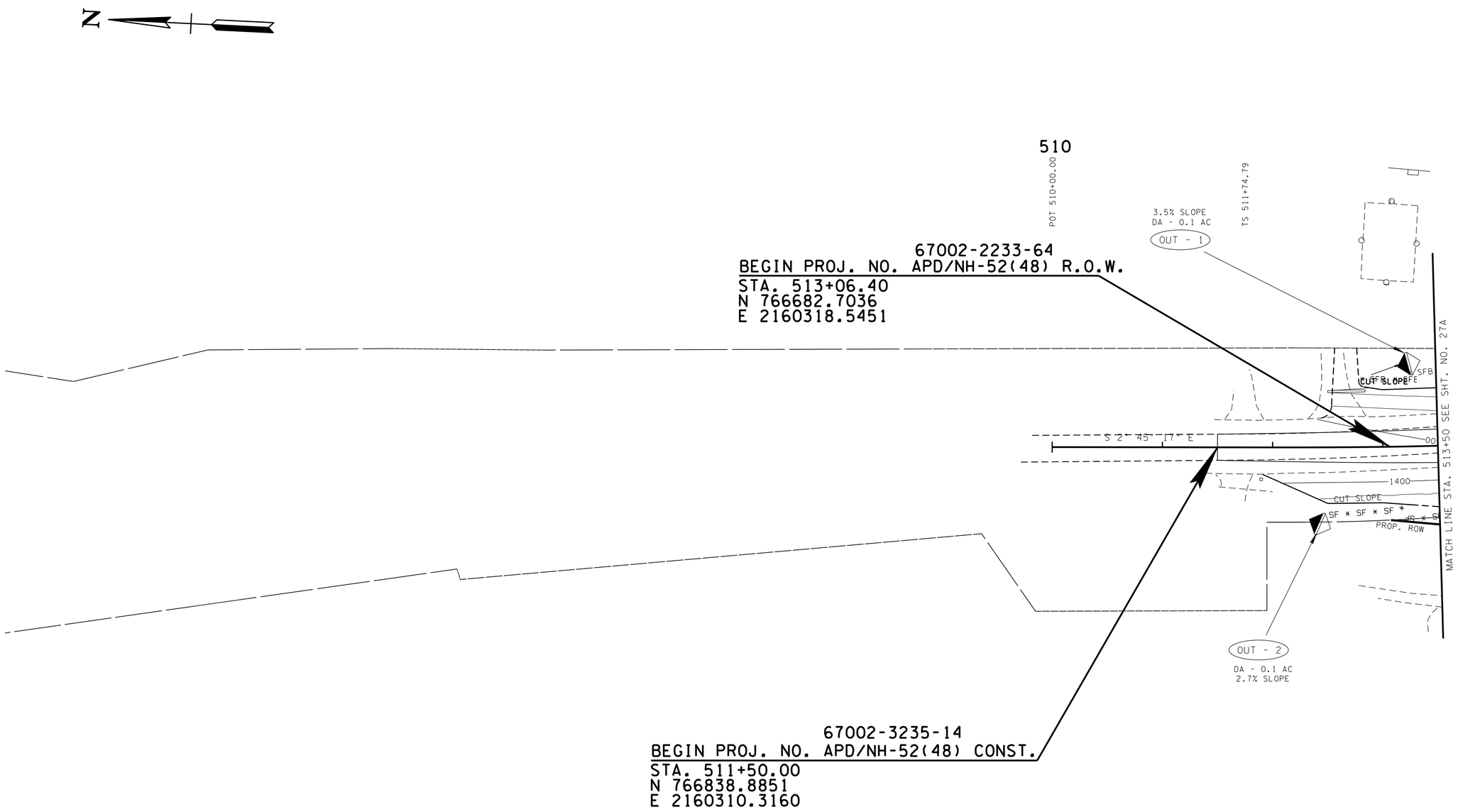
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27
CONST.	2014	APD/NH-52(48)	27

REV. 12-07-12: CORRECTED BEG. PROJ. NORTHING & EASTING LABELS



NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50'

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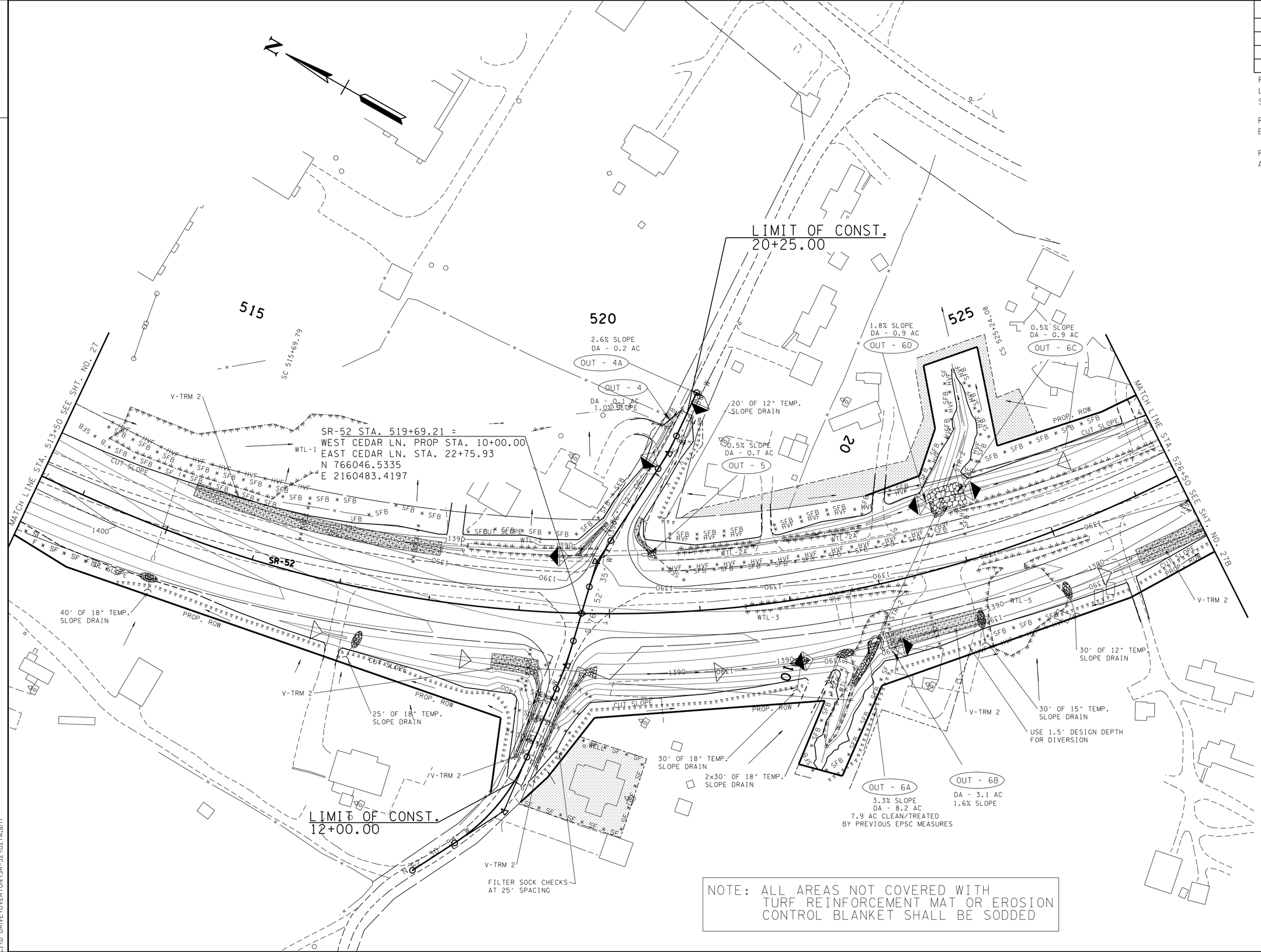
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27A
CONST.	2014	APD/NH-52(48)	27A

REV. 12-07-12: ADJUSTED SLOPE LINES, ROW & CONST. ESMT. FOR STR-1 & STR-2 RELOCATIONS

REV. 07-15-13: CORRECTED ROW AND EASEMENT LINEWORK EAST CEDAR LANE

REV. 09-18-13: ADDED CONST. ESMT. AND SILT FENCE TRACT 107



NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

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NO. 106423
STATE OF TENNESSEE

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27B
CONST.	2014	APD/NH-52(48)	27B

REV. 12-07-12: ADDED SLOPE LINES FOR ANDREW COVE RD. PVT. DR. & BOTH TOWER HILL RD. PVT. DRS.

LIMIT OF CONST.
40+50.00

OUT - 7
DA - 7.2 AC
6.7 AC CLEAN/TREATED BY PREVIOUS EPSC MEASURES
8.5% SLOPE

DA - 0.3 AC
4.0% SLOPE
OUT - 8

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

3.1% SLOPE
DA - 1.8 AC
OUT - 9

FILTER SOCK CHECKS AT 25' SPACING

SR-52 STA. 528+65.03 =
OLD SR-52 STA. 43+46.36
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

1.6% SLOPE
DA - 5.1 AC
4.2 AC TREATED BY PREVIOUS EPSC MEASURES
OUT-10A
DA-1.1 AC
2.7% SLOPE
OUT - 10

TYPE 2 ECB W/ CROWN VETCH ON 2:1 SLOPES
48.1% SLOPE
DA - 0.6 AC
OUT - 11

MATCH LINE STA. 526+50 SEE SHT. NO. 27A

MATCH LINE STA. 539+50 SEE SHT. NO. 27C

SR-52

PROP. ROW

CUT SLOPE

V-TRM 2

SFB

SOCK

TUBE

WTL-5

WTL-6

WTL-9

3 X 15' OF 18" TEMP. SLOPE DRAIN

45' OF 15" TEMP. SLOPE DRAIN

FILTER SOCK CHECKS AT 25' SPACING

30' OF 12" TEMP. SLOPE DRAIN

20' OF 8" TEMP. SLOPE DRAIN

45' OF 8" TEMP. SLOPE DRAIN

30' OF 8" TEMP. SLOPE DRAIN

25' OF 8" TEMP. SLOPE DRAIN

OUT-10B
DA-1.2 AC
3.5% SLOPE

OUT-10C
DA-0.5 AC
1.5% SLOPE

LIMIT OF CONST.
32+25.00

LIMIT OF CONST.
52+00.00

SR-52 STA. 530+40.86 =
TOWER HILL RD STA. 50+00.00
N 765350.0572
E 2161274.6023

NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

UNOFFICIAL SET
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NO. 106427
STATE OF TENNESSEE

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 526+50 TO STA. 539+50

SCALE: 1"= 50'

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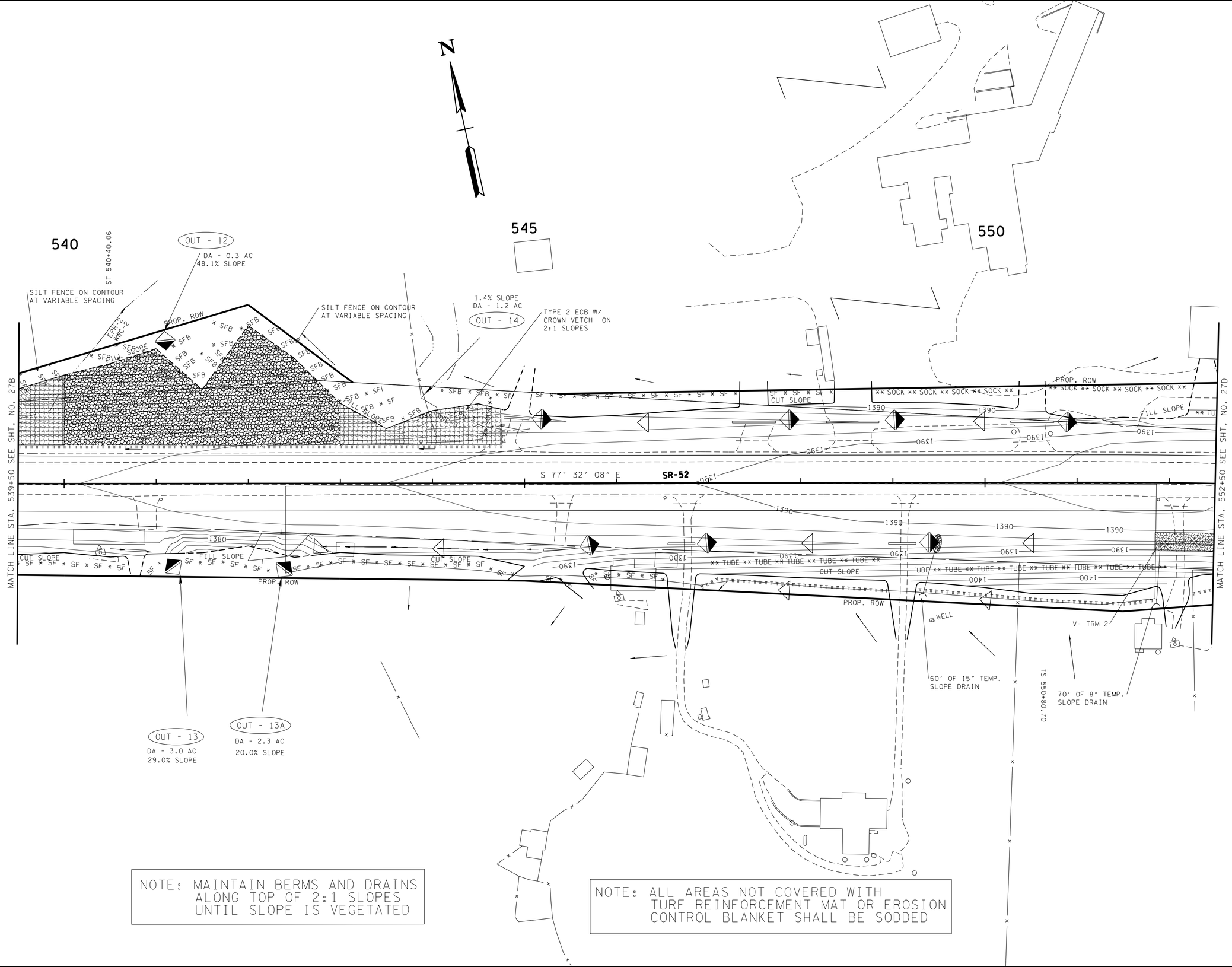
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27C
CONST.	2014	APD/NH-52(48)	27C

REV. 07-15-13: ADDED ROCK FILL SLOPE AND REVISED EPSC MEASURES

REV. 01-21-15: CHANGED PVT. DRIVE STA'S. 546+70.67 AND 549+11.05 TO 12' WIDTH. ADDED SPLIT TO FIELD ENT. STA. 545+41.28.



NOTE: MAINTAIN BERMS AND DRAINS ALONG TOP OF 2:1 SLOPES UNTIL SLOPE IS VEGETATED

NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

UNOFFICIAL SET

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PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

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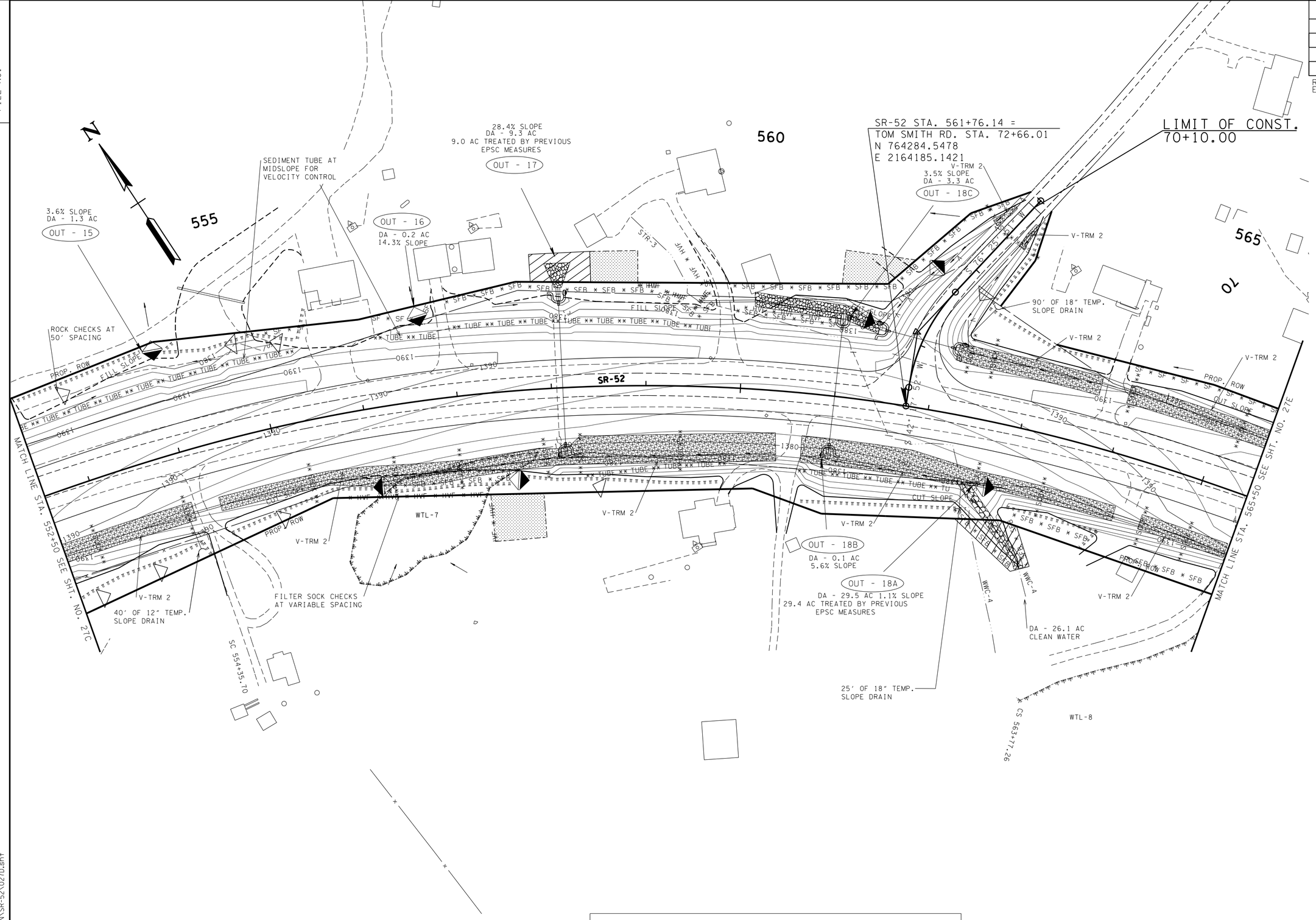
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27D
CONST.	2014	APD/NH-52(48)	27D

REV. 01-17-14: CHANGED CONST. ESMT. TO DRAIN. ESMT. TRACT 84



NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27E
CONST.	2014	APD/NH-52(48)	27E

REV. 12-07-12: ADDED SLOPE LINES FOR STR-4

LIMIT OF WORK
81+00.00
LIMIT OF CONST.
81+20.00

575

570

08

ECB TYPE 2 ON
FILL SLOPES ABOVE
WETLANDS

8.7% SLOPE
DA - 0.9 AC
OUT - 19

FILTER SOCK CHECKS
AT 25' SPACING

V-TRM 2

PND-1

WTL-9

STR-4

WTL-10 PROP. ROW

FILL SLOPE

CUT SLOPE

SR-52

S 35° 23' 51" E

S 66° 06' 20" W

S 23° 39' W

MATCH LINE STA. 565+50 SEE SHT. NO. 27D

MATCH LINE STA. 578+50 SEE SHT. NO. 27F

PROP. ROW

SEDIMENT TUBE CHECKS
AT 70' SPACING

WTL-8

ST 567+32.26

TS 572+22.17

OUT - 20A
DA - 3.4 AC
3.9% SLOPE
3x30' 18" TEMP.
SLOPE DRAIN

OUT - 20
DA - 1.1 AC
4.7% SLOPE

SC 576+02.17

SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786

TYPE 2 ECB W/
CROWN VETCH ON
2:1 SLOPES

NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

UNOFFICIAL SET
NOT FOR BIDDING

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NO. 108423
STATE OF TENNESSEE

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

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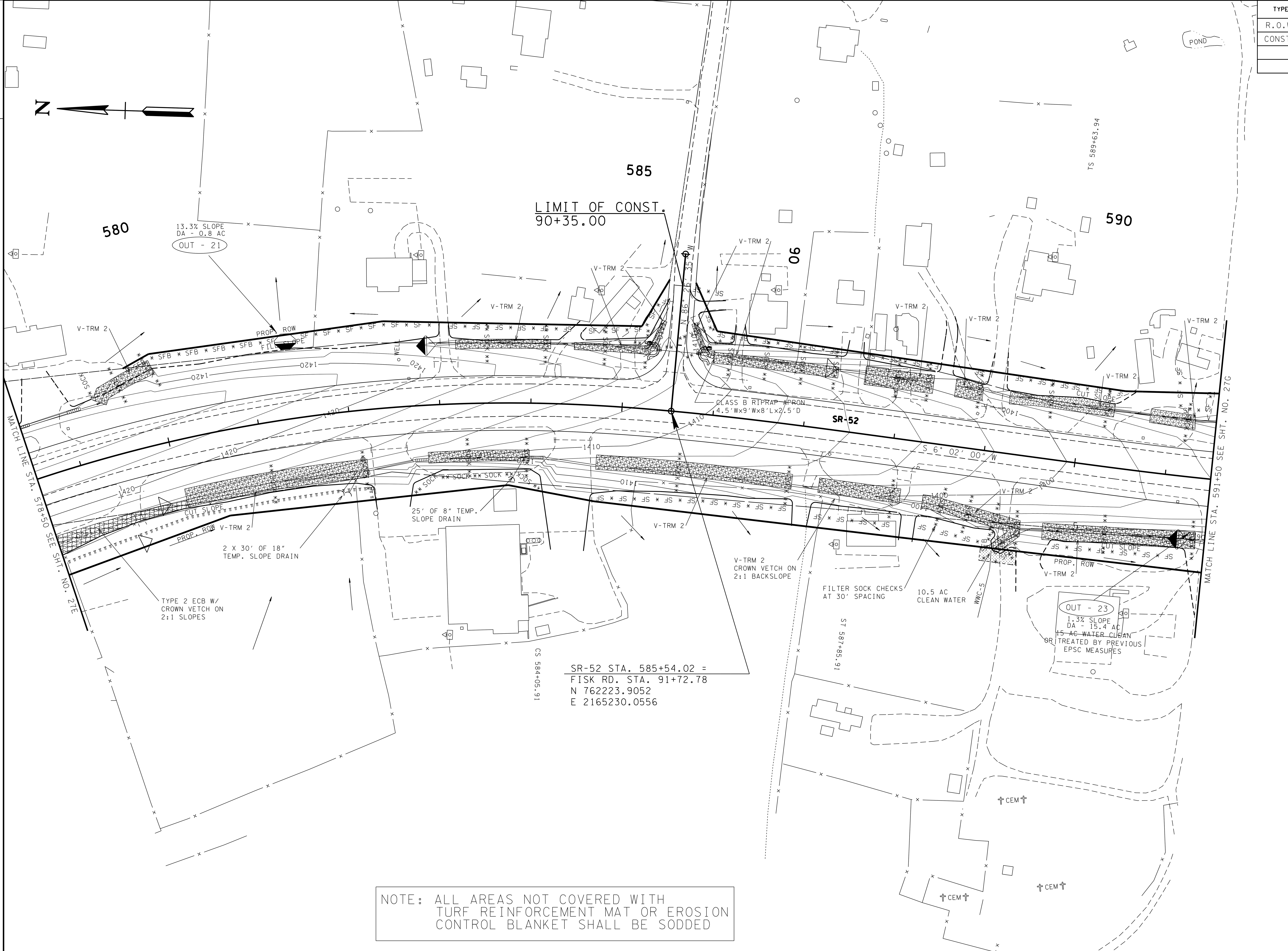
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27F
CONST.	2014	APD/NH-52(48)	27F



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STATE OF TENNESSEE

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50'

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

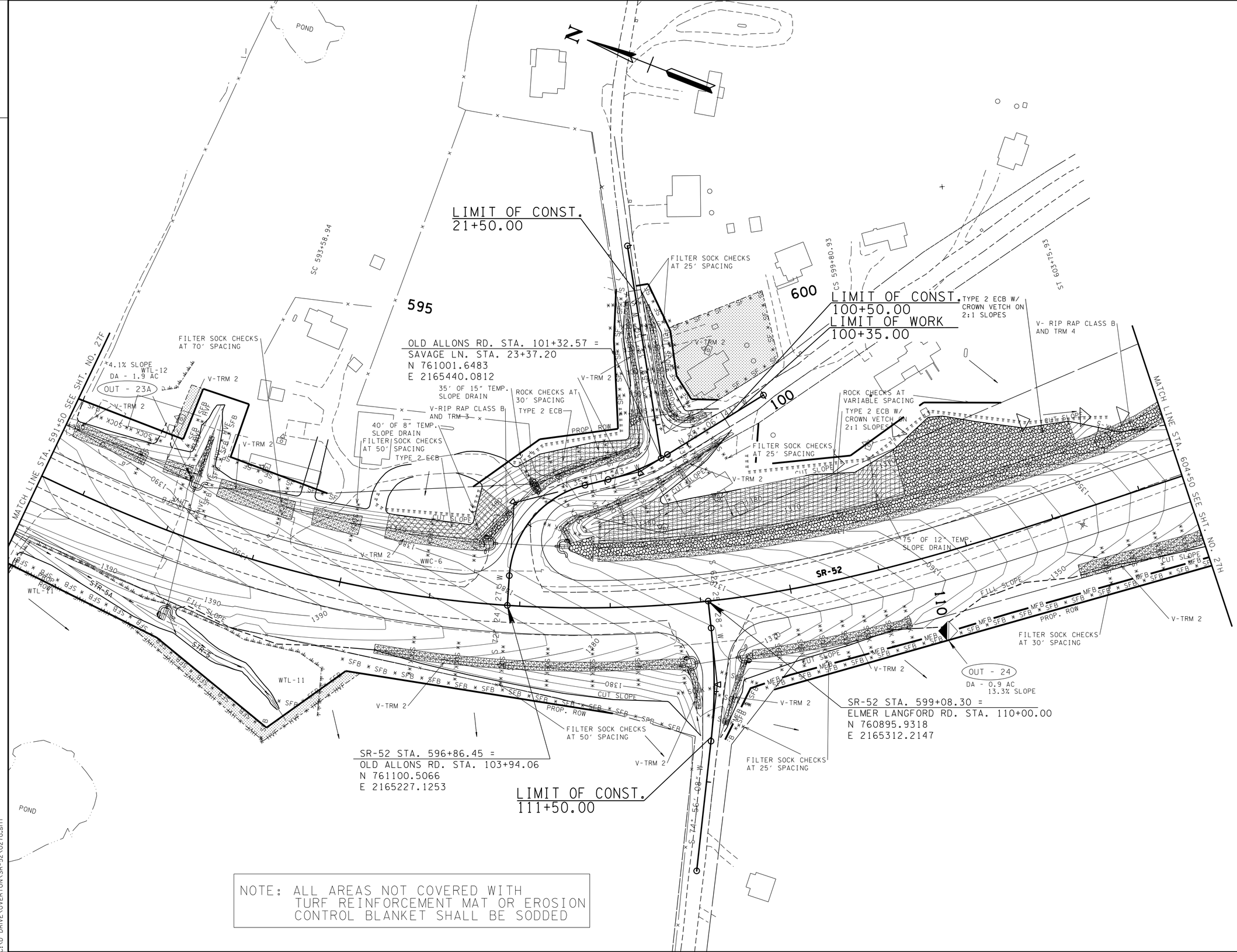
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27G
CONST.	2014	APD/NH-52(48)	27G

REV. 12-07-12: ADJUSTED SLOPE LINES FOR PVT. DRS. STA. 594+41.02 & 595+25.00, MOVED PVT. DR. STA. 592+60.00 AND ADJUSTED ROW & CONST. ESMT. FOR STR-5 RELOCATION

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW, PROP. CONTOURS & EPSC MEASURES

REV. 09-18-13: ADDED CONST. ESMT. AND SILT FENCE TRACT 304

REV. 10-04-13: RELOCATED TRAILER LEFT STA. 594+00.00



NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

UNOFFICIAL SET

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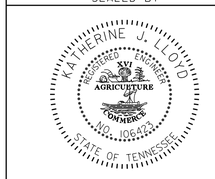

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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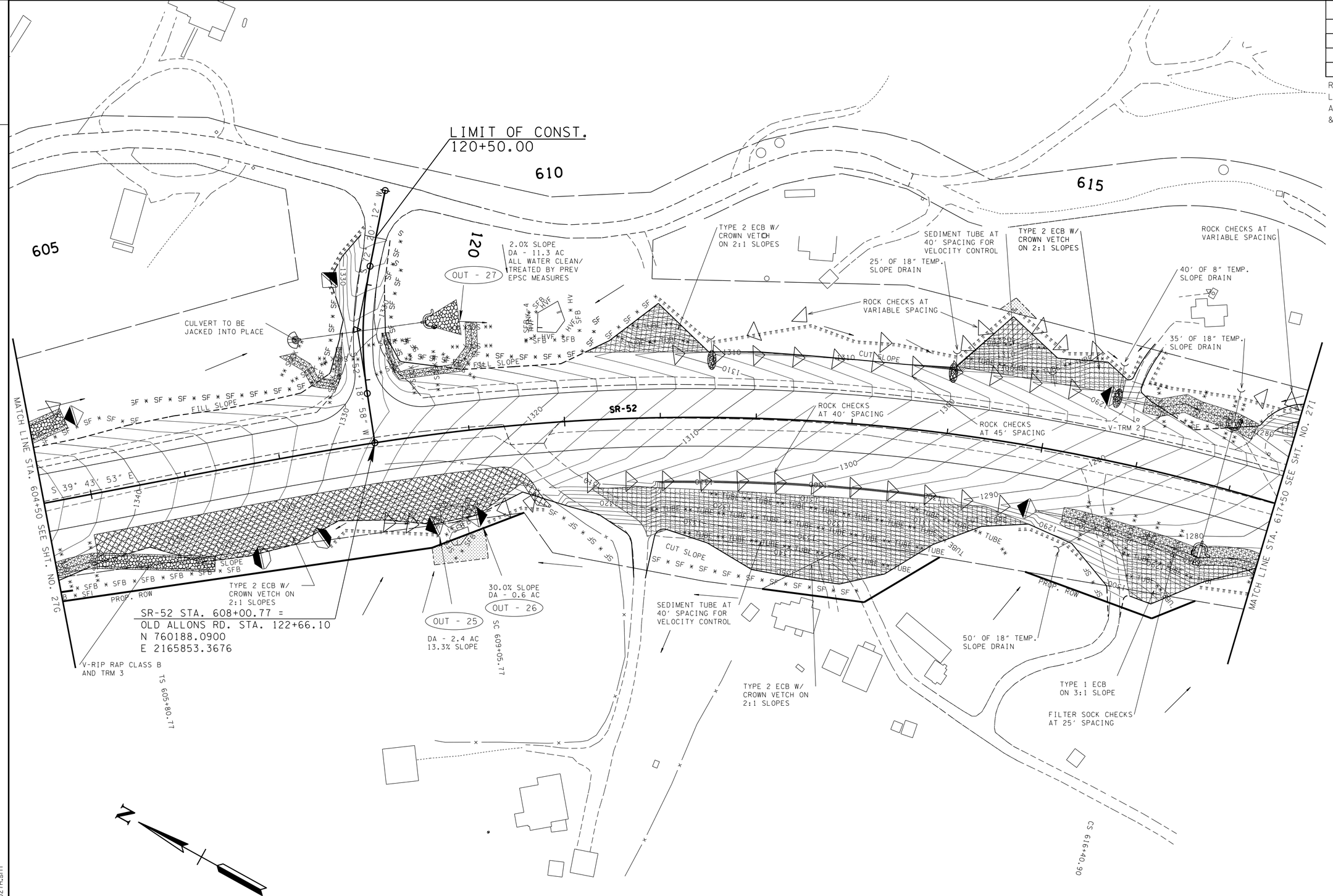
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27H
CONST.	2014	APD/NH-52(48)	27H

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW, PROP. CONTOURS & EPSC MEASURES



NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

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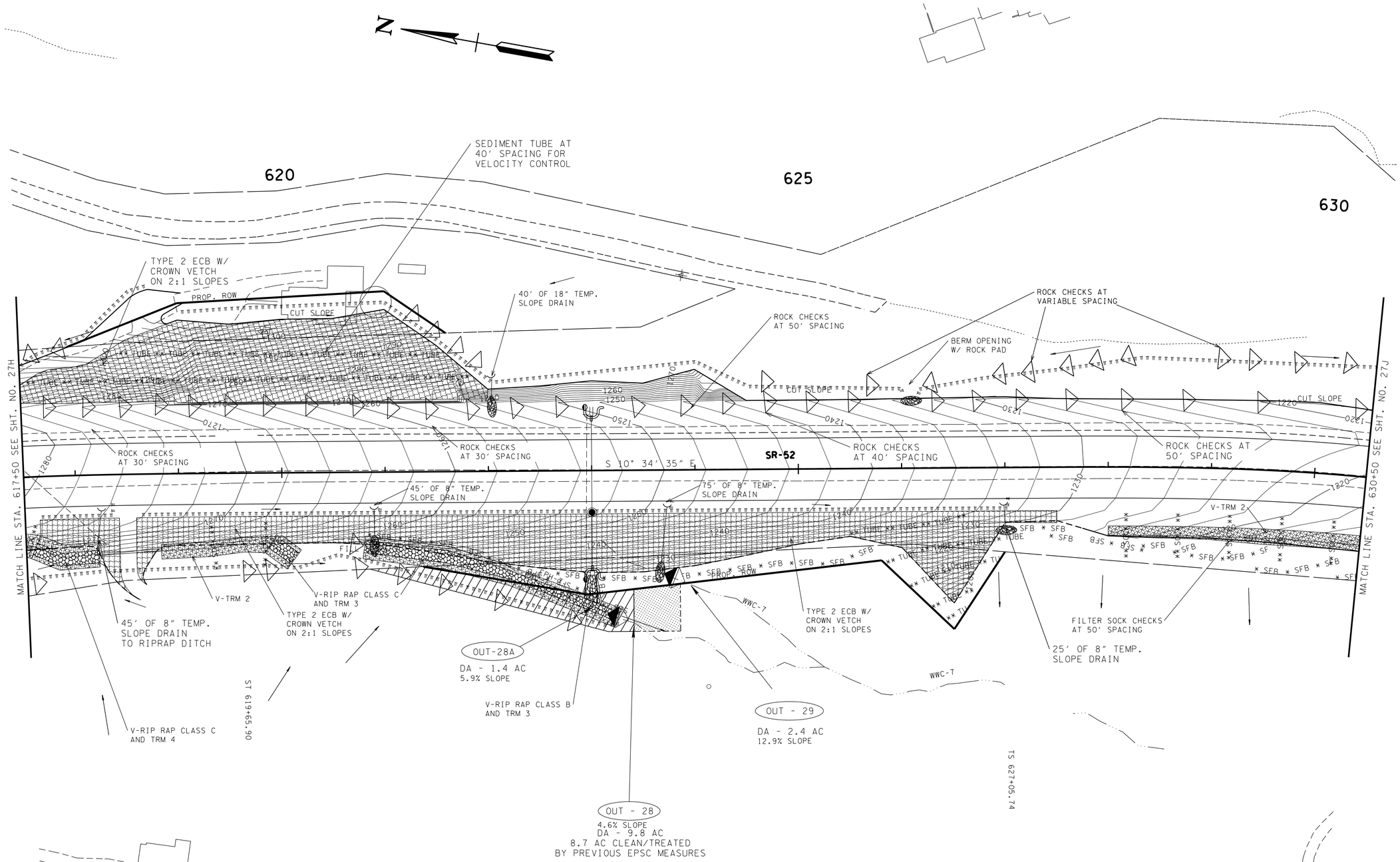
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27I
CONST.	2014	APD/NH-52(48)	27I

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT AND ADJUSTED ROW, PROP. CONTOURS & EPSC MEASURES



NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

NOTE: MAINTAIN BERMS AND DRAINS ALONG TOP OF 2:1 SLOPES UNTIL SLOPE IS VEGETATED

UNOFFICIAL SET

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STATE OF TENNESSEE

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27J
CONST.	2014	APD/NH-52(48)	27J

REV. 12-07-12: ADDED HAUL ROAD

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW, PROP. CONTOURS & EPSC MEASURES AND RE-ALIGNED FAIRVIEW LN.

REV. 01-17-14: MOVED CULVERT STA. 638+55.00 AND OUTLET DITCH

CONSTRUCTION EASEMENT

20' OF 12" TEMP. SLOPE DRAIN

V-RIP RAP CLASS C AND TRM 4

2 X 25' OF 18" TEMP. SLOPE DRAIN

FILTER SOCK AT 40' SPACING FOR VELOCITY CONTROL

TYPE 3 ECB W/ CROWN VETCH ON 2:1 SLOPES

TYPE 2 ECB W/ CROWN VETCH ON 2:1 SLOPES

ROCK CHECKS AT VARIABLE SPACING

SR-52 STA. 639+25.00 = FAIRVIEW LN. STA. 147+31.84
N 757216.4583
E 2166290.9817

SR-52 STA. 641+23.96 = ROE LN. STA. 150+00.00
N 757050.9256
E 2166180.7718

LIMIT OF CONST. 142+50.00

S 18° 04' 53" W

S 14° 55' 17" W

N 59° 42' 22" W

N 38° 39' 22" W

N 10° 00' 00" W

CUT SLOPE

FILL SLOPE

SR-52

V-TRM 2

ROCK CHECKS AT VARIABLE SPACING

50' OF 18" TEMP. SLOPE DRAIN TO RIPRAP DITCH

OUTLET PROTECTION TO REMAIN PERMANENT

OUT - 30A
DA - 2.6 AC
8.4% SLOPE

LIMIT OF WORK 153+70.00

V-RIP RAP CLASS B AND TRM 3

HAUL ROAD

USBR TYPE VI BAFFLED DISSIPATOR SEE DETAIL SHEET FOR DIMENSIONS

25' OF 8" TEMP. SLOPE DRAIN OUTLET ON ROCK SLOPE

MATCH LINE STA. 630+50 SEE SHT. NO. 27T

MATCH LINE STA. 643+50 SEE SHT. NO. 27K

SC 631+00.74

CS 639+30.13

ST 643+25.13

NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

LIMIT OF CONST. 153+00.00

OUT - 31
23.8% SLOPE
DA - 18.1 AC
ALL WATER CLEAN/ TREATED BY PREVIOUS EPSC MEASURES

NOTE: MAINTAIN BERMS AND DRAINS ALONG TOP OF 2:1 SLOPES UNTIL SLOPE IS VEGETATED

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UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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COMMERCE
NO. 108423
STATE OF TENNESSEE

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 630+50 TO STA. 643+50

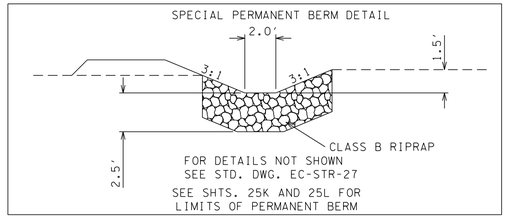
SCALE: 1"= 50'

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

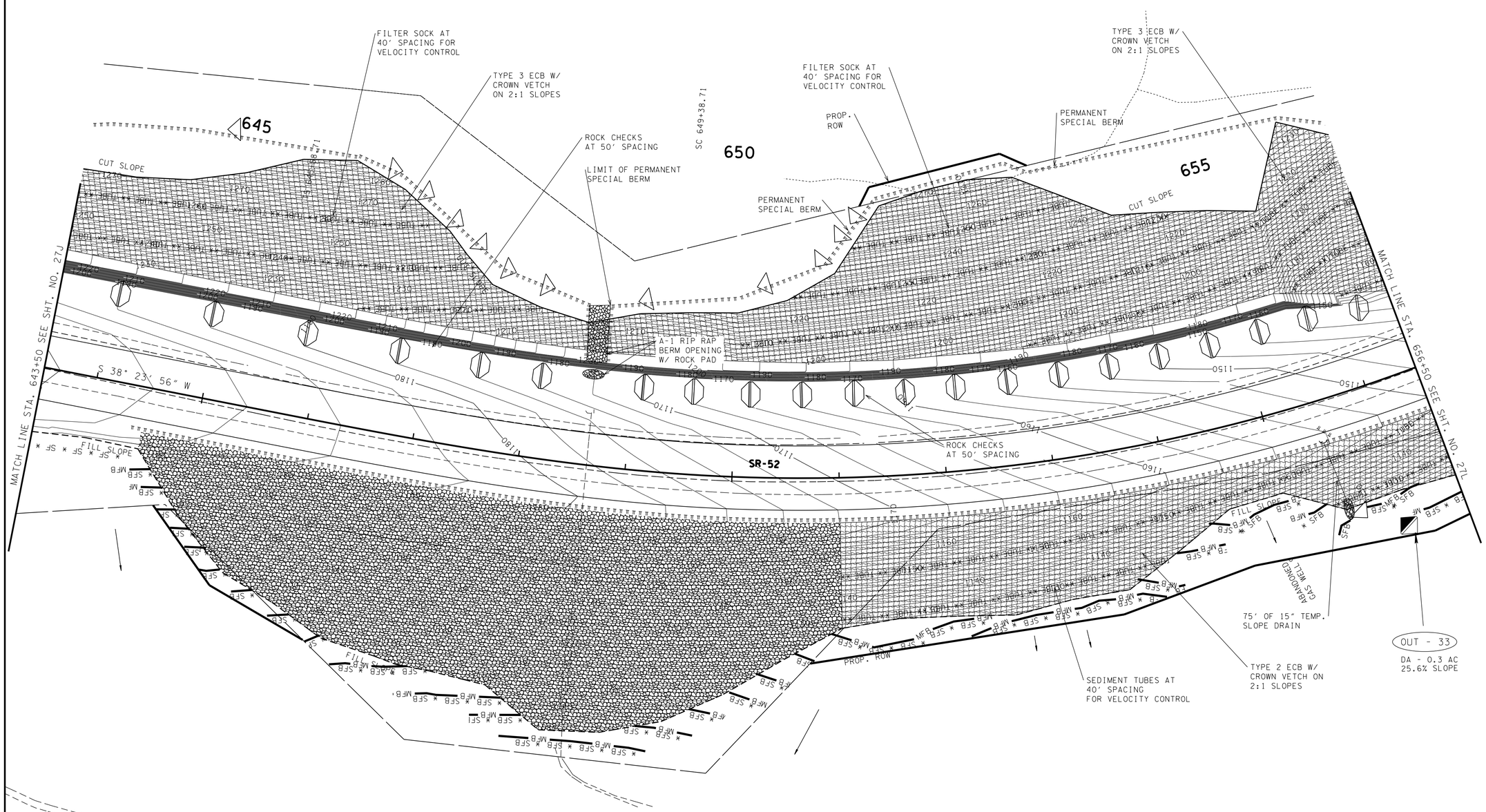
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27K
CONST.	2014	APD/NH-52(48)	27K

REV. 07-15-13: ADJUSTED SLOPE LINES PER GEOTECH REPORT, ADJUSTED ROW, PROP. CONTOURS & EPSC MEASURES AND ADDED ROCK FILL SLOPE

SPECIAL PERMANENT BERM DETAIL



FOR DETAILS NOT SHOWN
SEE STD. DWG. EC-STR-27
SEE SHTS. 25K AND 25L FOR
LIMITS OF PERMANENT BERM



NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

NOTE: MAINTAIN BERMS AND DRAINS ALONG TOP OF 2:1 SLOPES UNTIL SLOPE IS VEGETATED

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PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50'

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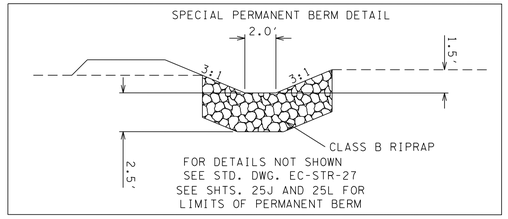
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

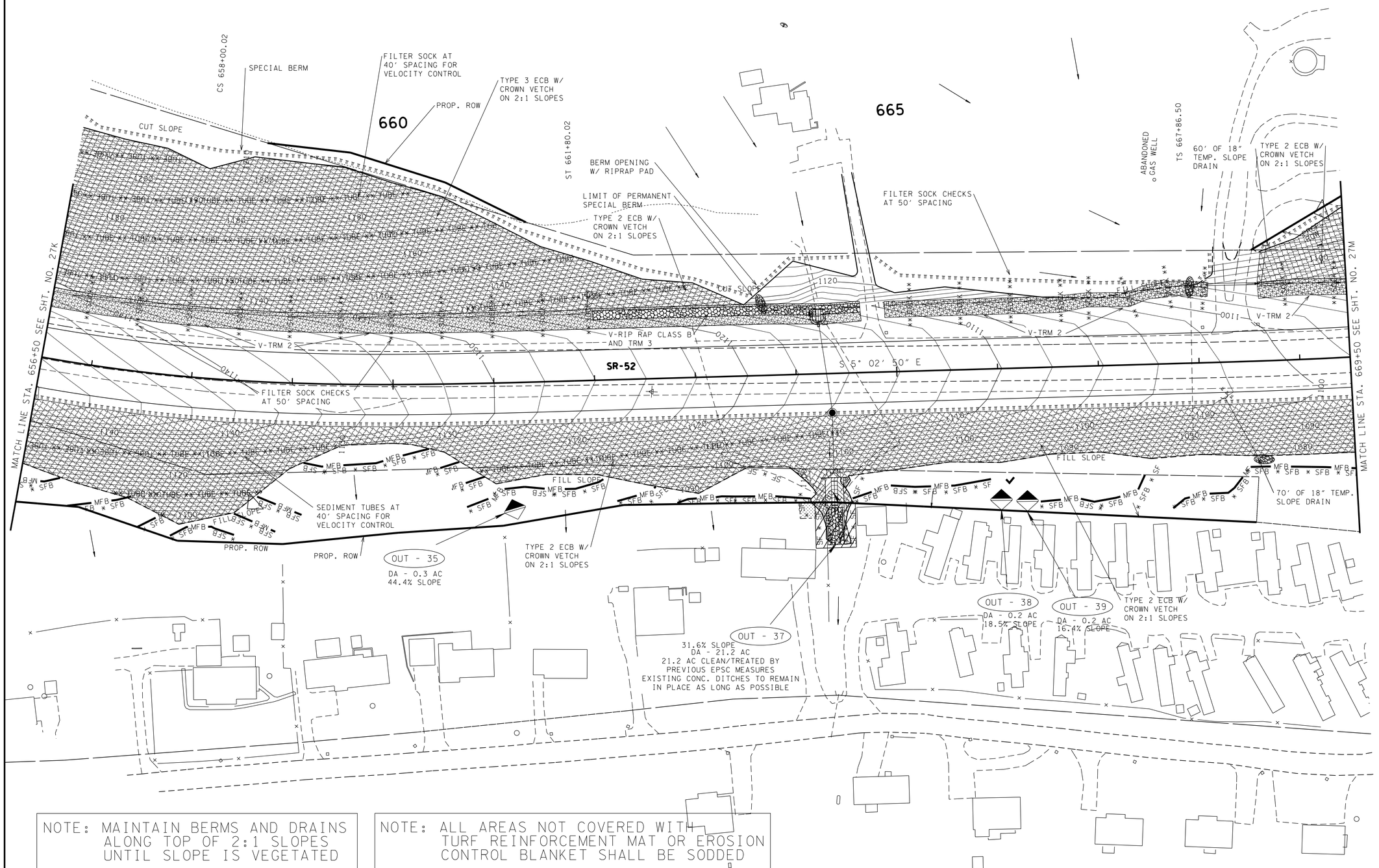
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27L
CONST.	2014	APD/NH-52(48)	27L

REV. 07-15-13: CHANGED CONST. EASEMENT TO ROW LT. APPROXIMATE STATION 660+00.00

SPECIAL PERMANENT BERM DETAIL



FOR DETAILS NOT SHOWN
SEE STD. DWG. EC-STR-27
SEE SHTS. 25J AND 25L FOR
LIMITS OF PERMANENT BERM



NOTE: MAINTAIN BERMS AND DRAINS ALONG TOP OF 2:1 SLOPES UNTIL SLOPE IS VEGETATED

NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 656+50 TO STA. 669+50

SCALE: 1"= 50'

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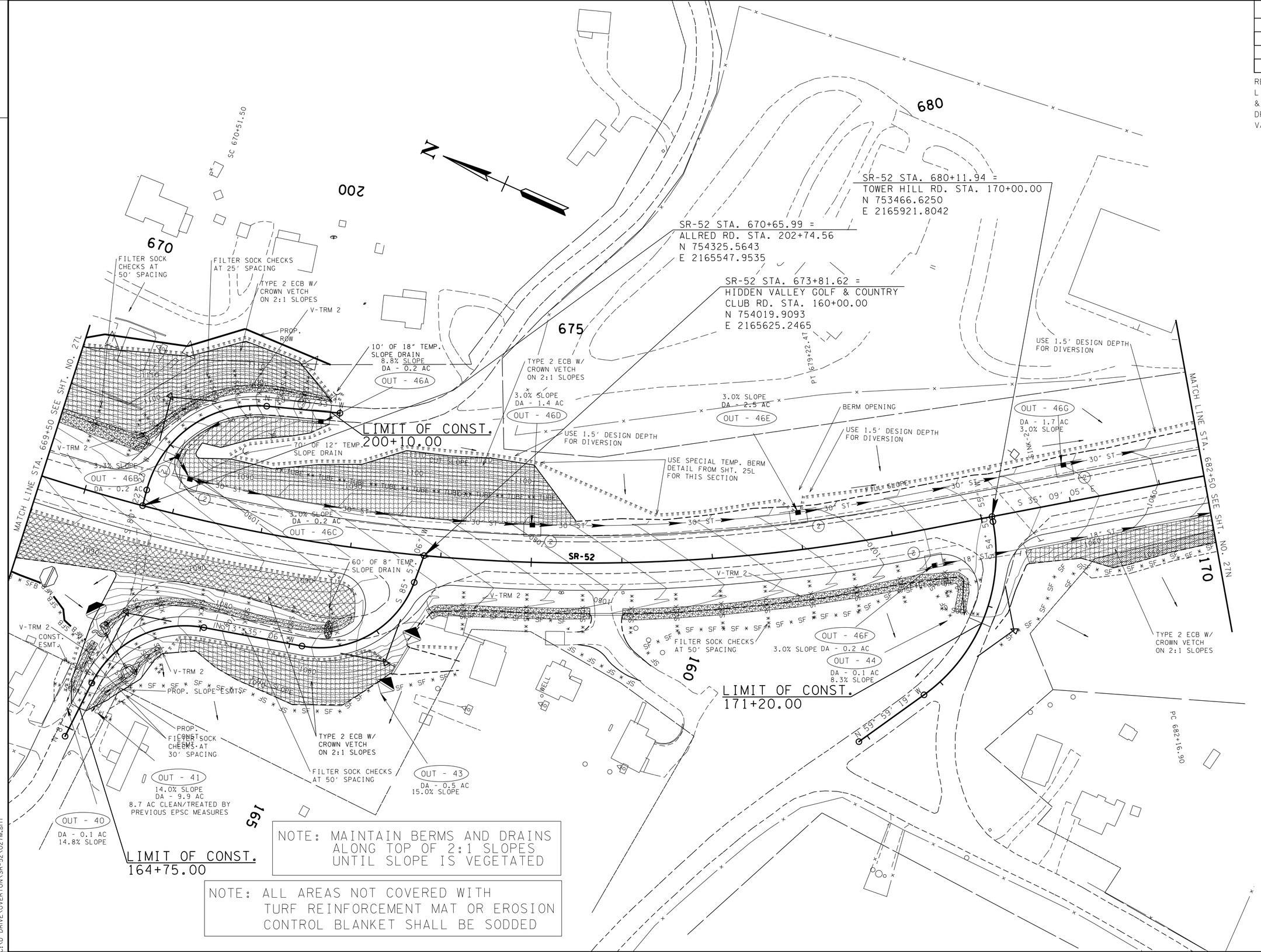
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27M
CONST.	2014	APD/NH-52(48)	27M

REV. 07-15-13: ADJUSTED SLOPE LINES, EASEMENT, PROP. CONTOURS & EPSC MEASURES AND ADDED CROSS DRAIN STA. 164+00.00 ON HIDDEN VALLEY LN.



NOTE: MAINTAIN BERMS AND DRAINS ALONG TOP OF 2:1 SLOPES UNTIL SLOPE IS VEGETATED

NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

UNOFFICIAL SET

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PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50'

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

CONSTRUCTION EASEMENT

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27N
CONST.	2014	APD/NH-52(48)	27N

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL & ADJUSTED EPSC MEASURES

N

685

690

695

PND-2

PND-2

PND-3

USE 1.5' DESIGN DEPTH FOR DIVERSION

3.0% SLOPE
DA - 1 AC
OUT - 46J

3.0% SLOPE
DA - 0.6 AC
OUT - 46H

3.0% SLOPE
DA - 0.1 AC
OUT - 46K

26.1% SLOPE
DA - 9.9 AC
9.7 AC CLEAN/TREATED BY PREVIOUS EPSC MEASURES
OUT - 46

V-RIP RAP CLASS C AND TRM 4

35' OF 15" TEMP. SLOPE DRAIN

30' OF 8" TEMP. SLOPE DRAIN

SR-52 STA. 693+58.94 =
CASH ST. STA. 190+00.00
N 752260.6225
E 2166496.9731

0.5% SLOPE
DA - 0.3 AC
OUT - 48A

SR-52

FILL SLOPE

MATCH LINE STA. 682+50 SEE SHT. NO. 27N

MATCH LINE STA. 695+50 SEE SHT. NO. 27P

OUT - 46I
DA - 0.4 AC
3.0% SLOPE

OUT - 46L
DA - 0.5 AC
3.0% SLOPE

TYPE 2 ECB W/ CROWN VETCH ON 2:1 SLOPES

OUT - 46M
DA - 0.3 AC
3.0% SLOPE

OUT - 48B
DA - 0.5 AC
2.0% SLOPE

TYPE 2 ECB W/ CROWN VETCH ON 2:1 SLOPES

PC 190+30.63
PT 190+59.28

OUT - 48C
DA - 0.4 AC
0.5% SLOPE

PT 692+99.54

OUT - 48D
0.5% SLOPE
DA - 0.2 AC

55' OF 8" TEMP. SLOPE DRAIN

OUT - 47
DA - 0.2 AC
3.0% SLOPE

LIMIT OF CONST.
191+15.00

LIMIT OF PAVING
192+00.00

NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

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SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	27P
CONST.	2012	APD/NH-52(48)	27P

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL & ADJUSTED EPSC MEASURES

THE CONTRACTOR MUST USE EXTREME CAUTION WHILE GRADING IN THE VICINITY OF THE TVA POLE STA. 697+91.36 (LT) AND USE STABILIZING MEASURES TO ENSURE THE POLE DOES NOT LEAN OR TILT. THE BLACK PROTECTIVE COATING (RUST PREVENTATIVE) MUST NOT BE DAMAGED IN ANY WAY. IF BY CHANCE THE SEAL OF THE COATING IS BROKEN, TVA MUST BE CONTACTED AS SOON AS POSSIBLE SO ARRANGEMENTS CAN BE MADE TO REPAIR THE DAMAGED AREA.

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

LIMIT OF CONST.
219+75.00

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076

SR-111 STA. 217+94.30 =
SR52NCHURCH STA. 800+00.00
N 751204.9213
E 2166754.5121

700
800
220
215

OUT - 48E
0.5% SLOPE
DA - 0.4 AC

OUT - 48G
DA - 0.1 AC
0.4% SLOPE

OUT - 45
DA - 5.3 AC
9.7% SLOPE

OUT - 48F
0.4% SLOPE
DA - 0.3 AC

OUT - 49
DA - 0.3 AC
5.6% SLOPE

OUT - 48H
1.2% SLOPE
DA - 0.3 AC

OUT - 48I
DA - 0.8 AC
0.5% SLOPE

OUT - 48J
DA - 1.0 AC
0.4% SLOPE

OUT - 48K
DA - 1.3 AC
0.4% SLOPE

OUT - 48L
DA - 0.6 AC
1.2% SLOPE

OUT - 50
DA - 0.3 AC
9.1% SLOPE

WTL-13
WTL-14
WTL-15
WTL-16
WTL-17

STR-7
STR-6

POT 704+46.39
POT 800+00.00
POT 802+50.00

FILL SLOPE
CUT SLOPE

18" ST
24" ST
30" ST
36" ST

15' OF 15" TEMP. SLOPE DRAIN
20' OF 18" TEMP. SLOPE DRAIN
25' OF 8" TEMP. SLOPE DRAIN
ROCK CHECKS AT VARIABLE SPACING

S 13° 29' 55" E
S 13° 18' 40" E
N 68° 00' 56" E

MATCH LINE STA. 695+50 SEE SHT. NO. 27N

LIMIT OF PAVE
802+25.00

LIMIT OF CONST.
215+50.00

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127
E 2166750.8076

SR-111 STA. 217+90.22 =
SR-52 STA. 704+46.39
N 751203.2127
E 2166750.8076

NOTE: ALL AREAS NOT COVERED WITH TURF REINFORCEMENT MAT OR EROSION CONTROL BLANKET SHALL BE SODDED

N

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SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
SUMNER
No. 106423
STATE OF TENNESSEE

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 695+50 TO STA. 704+46

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28

STREAM AND WETLAND MITIGATION

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	209-03.31	STREAM MITIGATION-COCONUT FIBER ROLLS	L.F.	1285
	209-03.47	STREAM MITIGATION - LONGITUDINAL STONE TOE (DESCRIP)	C.Y.	6
(1)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	266
(2)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	43
	716-16.35	SIGNS (DO NOT MOW)	EACH	13
(3)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	225
	802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	EACH	83
	802-02.31	CUTTINGS: SALIX SERICEA (18IN-24IN)	EACH	83
	802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	EACH	87
	802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	EACH	87
	802-02.34	CUTTINGS: SALIX INTERIOR (18IN-24IN)	EACH	123
	802-02.35	CUTTINGS: CEPHALANTHUS OCCIDENTALIS (18IN-24IN)	EACH	123
	802-11.04	ACER SACCHARUM (SUGAR MAPLE 2-5FT CNTNR GRWN)	EACH	24
	802-11.11	CERCIS CANADENSIS (REDBUD 2-5FT CNTNR GRWN)	EACH	45
	802-11.12	CORNUS FLORIDA (FLOWERING DOGWOOD 2-5FT CNTNR GRWN)	EACH	45
	802-11.16	FRAXINUS PENNSYLVANICA (GREEN ASH 2-5FT CNTNR GRWN)	EACH	4
	802-11.26	PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN)	EACH	4
	802-11.40	SALIX NIGRA (BLACK WILLOW 2-5FT CNTNR GRWN)	EACH	4
	802-11.44	ULMUS AMERICANA (AMERICAN ELM 2-5FT CNTNR GRWN)	EACH	4
	802-11.62	CORNUS ALTERNIFOLIA (ALTERNATE LEAF DGWOOD 2-5FT CNTNR GRWN)	EACH	25
	802-11.66	PRUNUS ANGUSTIFOLIA (CHICKASAW PLUM 2-5FT CNTNR GRWN)	EACH	45
	802-12.03	ACER SACCHARINUM (SILVER MAPLE SEEDLNG B.R.)	EACH	4
	802-12.06	ASIMINA TRILOBA (PAWPAW SEEDLNG B.R.)	EACH	20
	802-12.16	FRAXINUS PENNSYLVANICA (GREEN ASH SEEDLNG B.R.)	EACH	4
	802-12.40	SALIX NIGRA (BLACK WILLOW SEEDLNG B.R.)	EACH	4
	802-12.65	MALUS ANGUSTIFOLIA (SOUTHERN CRABAPPLE SEEDLING B.R.)	EACH	45
	802-13.15	PHYSOCARPUS OPULIFOLIUS (NINEBARK) 2-5FT C.G.	EACH	45
	802-13.53	CEPHALANTHUS OCCIDENTALIS (BUTTONBUSH SDLNG BARE ROOT)	EACH	4
	802-13.56	HYDRANGEA QUERCIFOLIA (OAKLF HYDRANGEA SDLNG BARE ROOT)	EACH	20
	802-13.63	VACCINIUM STAMINEUM (DEERBERRY SDLNG B.R.)	EACH	45
	802-13.67	RHODODENDRON CALENDULACEUM (FLAMING AZALEA SDLING B.R.)	EACH	45
	802-13.72	RHUS TYPHINA (STAGHORN SUMAC SDLING B.R.)	EACH	45
	805-12.08	700 GRAM COIR FIBER EROSION BLANKET	S.Y.	3820

NOTES:

(1) INCLUDES 122 TONS FOR STR-2 AND 144 TONS FOR STR-5

(2) INCLUDES 43 TONS FOR STR-4

(3) TO BE USED AT TREE PLANTING LOCATIONS.

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ESTIMATED MITIGATION QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28A

MITIGATION NOTES

STANDARD STREAM MITIGATION

(1) IF THE RELOCATED CHANNEL FLOWS INTO A PROPOSED CULVERT, THE NEW CHANNEL CHALL 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, AND/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, EROSION CONTROL BLANKETS, SEEDING, SOD, OR MATERIALS ARE IN PLACE AND ESTABLISHED.

(2) CHANNEL RELOCATION SEQUENCE

A. FLAG EDGE OF THE NEW CHANNEL TOP 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, SOD OR OTHER MATERIAL AS SPECIFIED.

E. REMOVE DIVERSION BERMS, BEGINNING WITH THE MOST DOWNSTREAM; 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 RELCOATION SHOULD MATCH THE ELEVATIONS OF THE EXISTING CHANNEL, AND A STEADY PERCENT SLOPE SHOULD BE MAINTAINED THROUGHOUT THE RELOCATION 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 THROUGH THE TDOT CONSTURUCTION OFFICE.

(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 COORDINATION WITH ALL INVLOVED AGENCIES AND TDOT DIVISIONS. 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 OF THE VARIETY REQUESTED, BETWEEN 2 AND 5 FEET IN HEIGHT, CONTAINERIZED, AND FIRST QUALITY. BARE ROOT TREES SHALL BE OF THE VARIETY REQUESTED, WELL BRANCHED, AND FIRST QUALITY. BARE ROOTS MUST BE KEPT MOIST AT ALL TIMES. 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 ENVIRONMENTAL DIVISION.

(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) ALL TREES PLANTED SHALL BE WRAPPED AS PER SECTION 802.07 OF TDOT STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION.

(4) TREES SHALL BE WATERED AS REQUIRED THROUGH THE PERIOD OF ESTABLISHMENT TO ENSURE SURVIVAL.

TEMPORARY WETLAND IMPACT AREAS

(1) REMOVE THE TOP 12” OF TOPSOIL AND STOCKPILE IT UNTIL CONSTRUCTION IS COMPLETE.

(2) ONCE CONSTURCTION ACTIVITIES ARE COMPLETED, RESTORE ALL TEMPORARY WETLAND IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES REMOVING HAUL ROADS (IF APPLICABLE), RESTORING THE SITE TO THE ORIGINAL (PRE-CONSTRUCTION) ELEVATION AND SPREADING STOCKPILED TOPSOIL BACK OVER THE WETLAND SITE.

(3) THE AREA OF TEMPORARY IMPACTS WILL BE STABILIZED ACCORDING TO STANDARD PRACTICES.

(4) WETLAND AREAS LOCATED OUTSIDE OF PROPOSED RIGHT-OF-WAY AND CONSTRUCTION EASEMENTS ARE TO BE CLEARLY MARKED AND NOT DISTURBED.

RIP-RAP

(1) IF RIP-RAP IS REQUIRED ON THE BANKS OR IN THE CHANNEL, THE RIP-RAP MUST BE EMBEDDED INTO THE SOIL SUCH THAT (1) THE TOP OF THE RIP-RAP IS FLUSH WITH THE BOTTOM AND SIDES OF THE CHANNEL (2) THE VOIDS ARE FILLED WITH MATERIALS SIMILAR TO THE ORIGINAL MATERIAL ON THE SIDES OR CHANNEL BOTTOM, AND (3) WATER IN THE CHANNEL WILL FLOW ON TOP OF THE EMBEDDED RIP-RAP AND SOIL MATERIALS TO ENABLE THE WATER TO BE VISIBLE.

(2) RIP-RAP PLACED ON THE SIDE SLOPES SHOULD BE PLANTED WITH LIVE STAKES ON 3-FOOT CENTERS USING THE LIVE STAKE SPECIES SHOWN IN THE TABLES.

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MITIGATION NOTES

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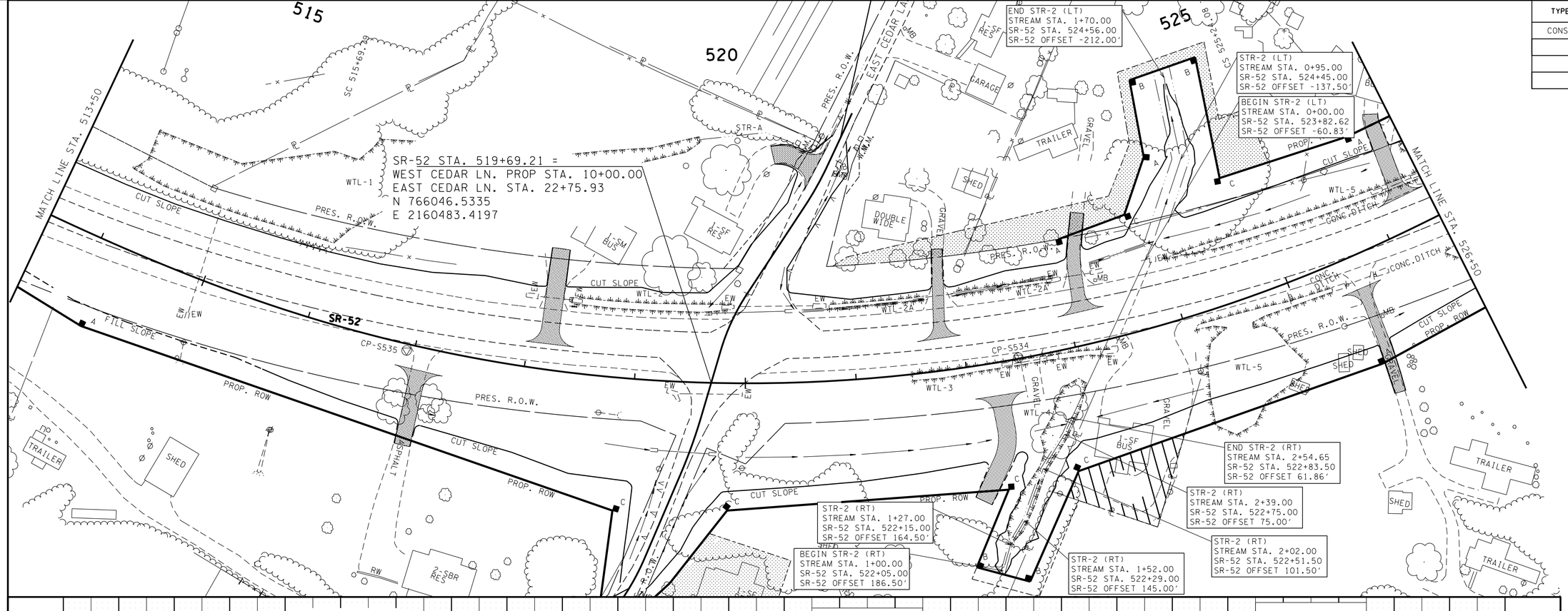
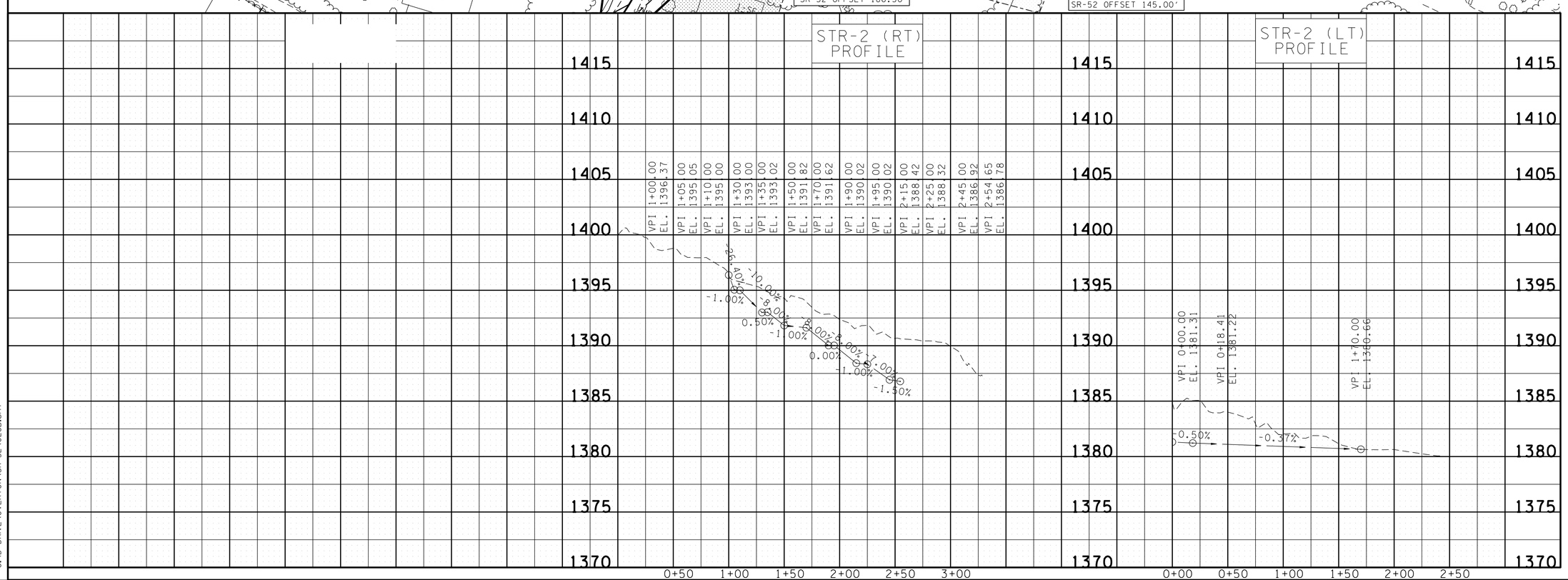
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28B





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MITIGATION STREAM LAYOUT

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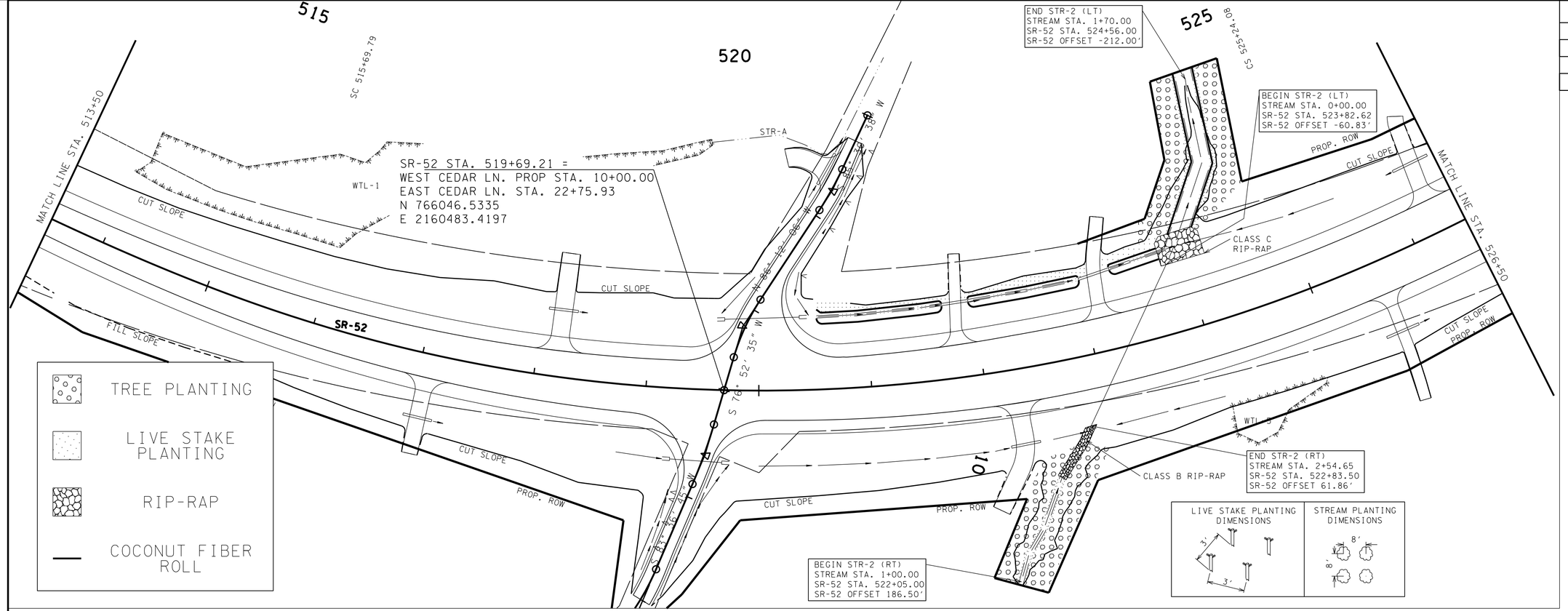
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28C



STREAM PLANTING TABLE

	ITEM NO.	DESCRIPTION	COMMON NAME	SPACING (FT)	STEMS/ ACRE	AREA (ACRES)	DISTRIBUTION (PERCENT)	QUANTITY (STEMS)
	STR-2 - ZONE 2 - FLOOD PLAIN AND UPLAND AREAS - TREE PLANTING							
	802-11.04	ACER SACCHARUM (SUGAR MAPLE 2-5FT CNTNR GRWN)	SUGAR MAPLE	8 X 8	680	0.26	11.11	20
	802-11.11	CERCIS CANADENSIS (REDBUD 2-5FT CNTNR GRWN)	REDBUD	8 X 8		0.26	11.11	20
	802-11.12	CORNUS FLORIDA (FLOWERING DOGWOOD 2-5FT CNTNR GRWN)	FLOWERING DOGWOOD	8 X 8		0.26	11.11	20
	802-11.66	PRUNUS ANGUSTIFOLIA (CHICKASAW PLUM 2-5FT CNTNR GRWN)	CHICKASAW PLUM	8 X 8		0.26	11.11	20
	802-13.15	PHYSOCARPUS OPULIFOLIUS (NINEBARK) 2-5FT C.G.	NINEBARK	8 X 8		0.26	11.11	20
	802-12.06	ASIMINA TRILOBA (PAWPAW SEEDLNG B.R.)	PAWPAW	8 X 8		0.26	11.11	20
	802-13.63	VACCINIUM STAMINEUM (DEERBERRY SDLNG B.R.)	DEERBERRY	8 X 8		0.26	11.11	20
	802-13.67	RHODODENDRON CALENDULACEUM (FLAMING AZALEA SDLING B.R.)	FLAMING AZALEA	8 X 8		0.26	11.11	20
	802-13.56	HYDRANGEA QUERCIFOLIA (OAKLF HYDRANGEA SDLNG BARE ROOT)	OAKLEAF HYDRANGEA	8 X 8		0.26	11.11	20
(1)	802-12.65	MALUS ANGUSTIFOLIA (SOUTHERN CRABAPPLE SEEDLING B.R.)	SOUTHERN CRABAPPLE	8 X 8		0.26	-	20
(1)	802-13.72	RHUS TYPHINA (STAGHORN SUMAC SDLING B.R.)	STAGHORN SUMAC	8 X 8		0.26	-	20
		STR-2 - ZONE 2 TOTAL				0.26	100	220
	TOTAL					**0.26**		**220**

(1) ZONE 2 TREES AND SHRUBS ARE LISTED IN ORDER OF DOMINANCE. THE FIRST FIVE SHOULD BE USED FOR MITIGATION. IF ANY OF THESE ARE NOT AVAILABLE, EITHER OF THE LAST TWO ON THE LIST CAN BE SUBSTITUTED

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MITIGATION STREAM PLANTING

22-JAN-2015 07:43
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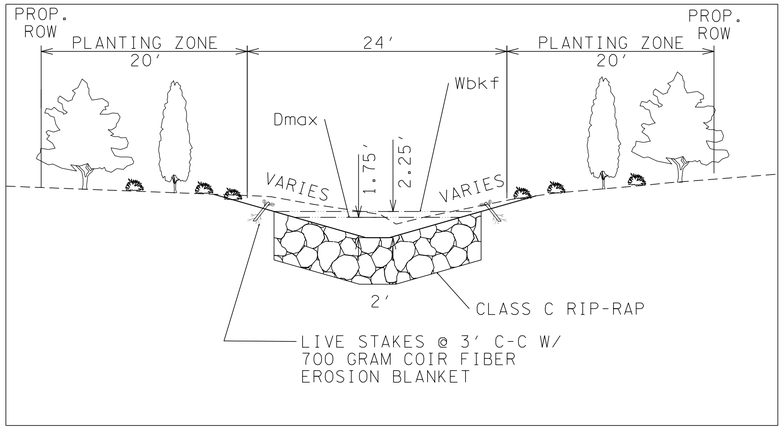
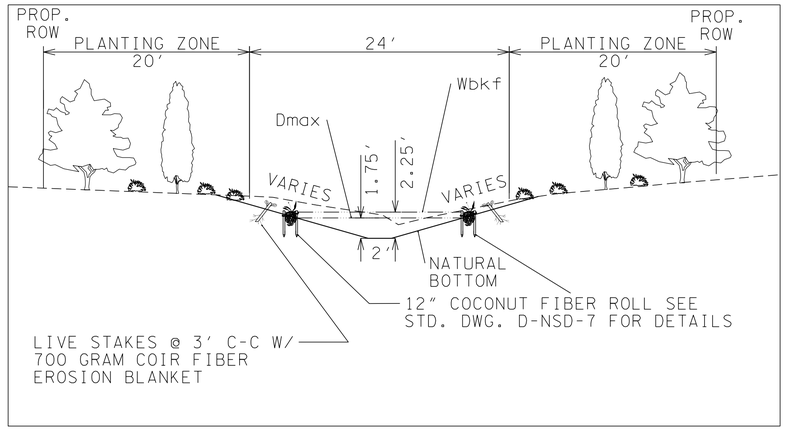
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28D

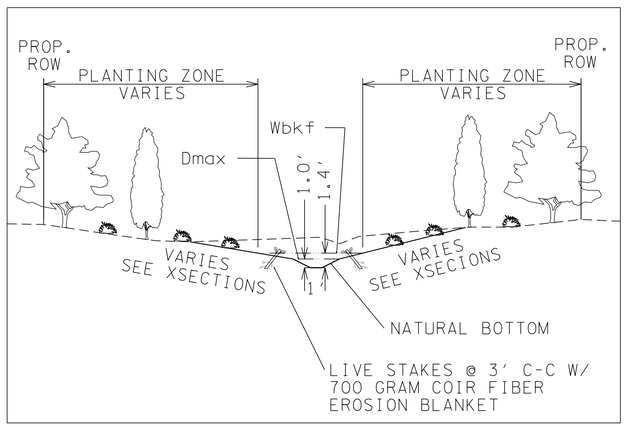
STR-2 (LT)
TYPICAL XS
FROM STR. STA. 0+00
TO STR STA. 0+33



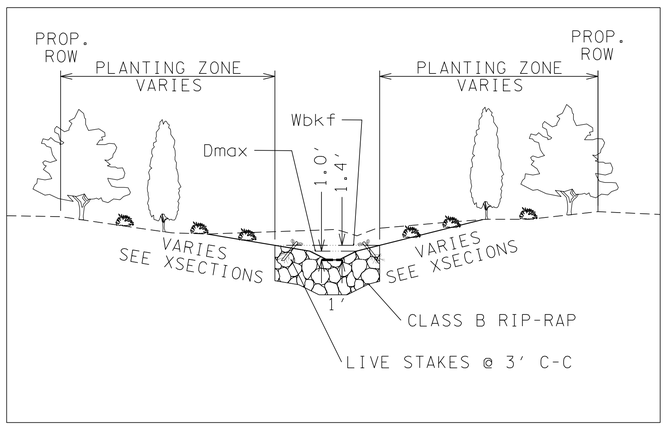
STR-2 (LT)
TYPICAL XS
FROM STR. STA. 0+33
TO STR STA. 1+70



STR-2 (RT)
TYPICAL XS
FROM STR. STA. 1+00
TO STR STA. 2+00



STR-2 (RT)
TYPICAL XS
FROM STR. STA. 2+00
TO STR STA. 2+55



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DEPARTMENT OF TRANSPORTATION

MITIGATION STREAM TYPICAL SECTIONS

22-JAN-2015 07:43
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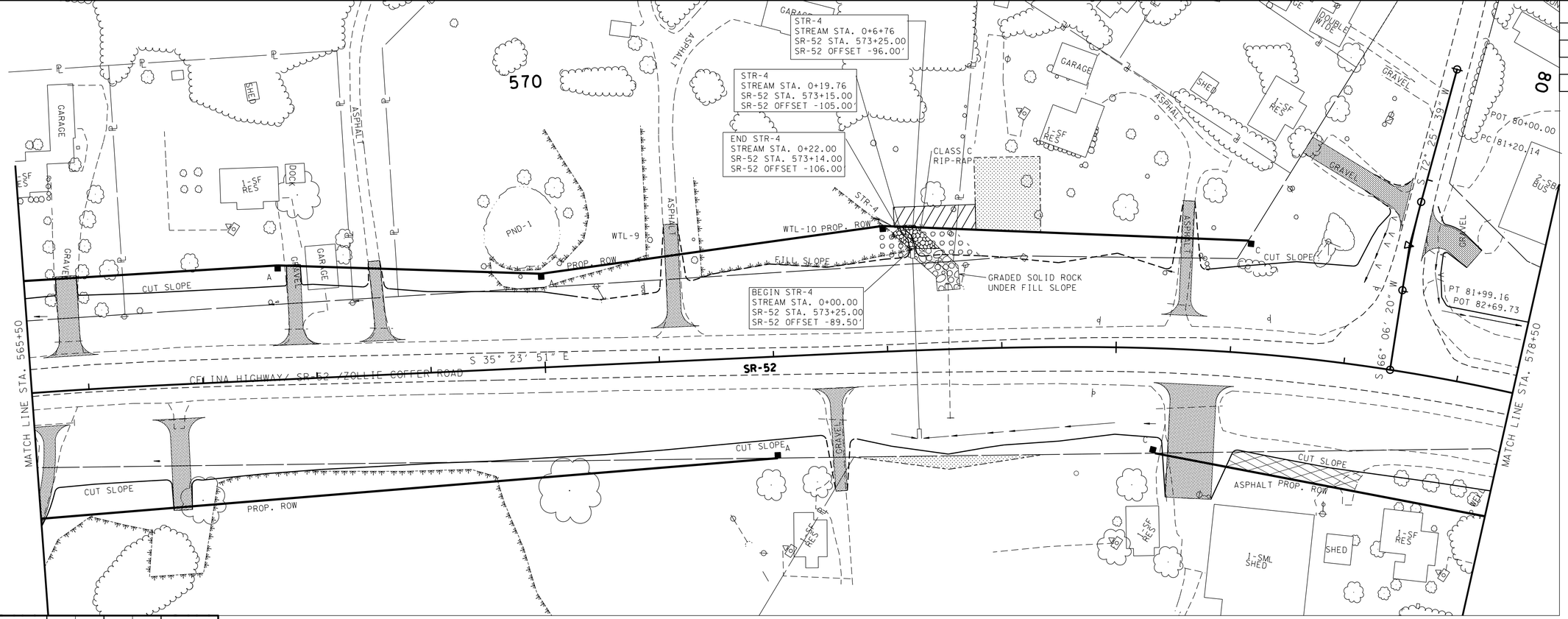
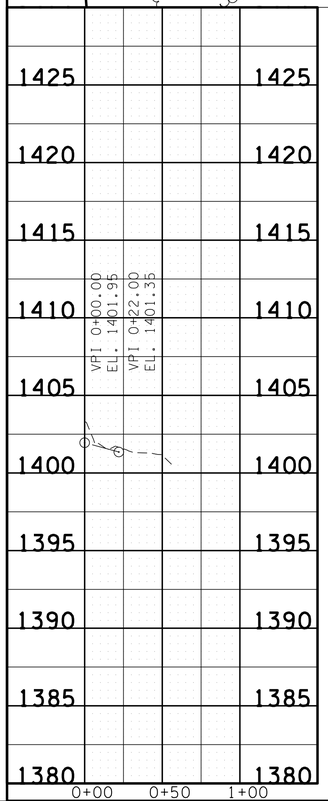
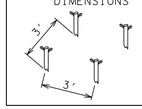
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28E



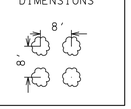


TREE PLANTING

LIVE STAKE PLANTING DIMENSIONS



STREAM PLANTING DIMENSIONS

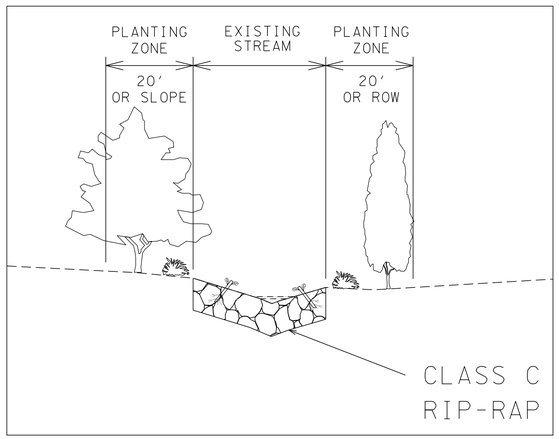


STREAM PLANTING TABLE

	ITEM NO.	DESCRIPTION	COMMON NAME	SPACING (FT)	STEMS/ACRE	AREA (ACRES)	DISTRIBUTION (PERCENT)	QUANTITY (STEMS)
	STR-4 - ZONE 1 - STREAMBANK - LIVE STAKE PLANTING							
	802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	BLACK WILLOW	3 X 3	4840	0.01	16.67	9
	802-02.31	CUTTINGS: SALIX SERICEA (18IN-24IN)	SILKY WILLOW	3 X 3		0.01	16.67	9
	802-02.34	CUTTINGS: SALIX INTERIOR (18IN-24IN)	SANDBAR WILLOW	3 X 3		0.01	16.67	9
	802-02.35	CUTTINGS: CEPHALANTHUS OCCIDENTALIS (18IN-24IN)	BUTTON BUSH	3 X 3		0.01	16.67	9
	802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	SILKY DOGWOOD	3 X 3		0.01	16.67	9
	802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	ELDERBERRY	3 X 3		0.01	16.67	9
	ZONE 1 TOTAL					0.01	100	54
	STR-4 - ZONE 2 - FLOOD PLAIN AND UPLAND AREAS - TREE PLANTING							
	802-11.12	CORNUS FLORIDA (FLOWERING DOGWOOD 2-5FT CNTNR GRWN)	FLOWERING DOGWOOD	8 X 8	680	0.03	14.28	3
	802-11.11	CERCIS CANADENSIS (REDBUD 2-5FT CNTNR GRWN)	REDBUD	8 X 8		0.03	14.28	3
	802-13.15	PHYSOCARPUS OPULIFOLIUS (NINEBARK) 2-5FT C.G.	NINEBARK	8 X 8		0.03	14.28	3
	802-11.62	CORNUS ALTERNIFOLIA (ALTERNATE LEAF DGWOOD 2-5FT CNTNR GRWN)	ALTERNATE LEAF DOGWOOD	8 X 8		0.03	14.28	3
	802-11.66	PRUNUS ANGUSTIFOLIA (CHICKASAW PLUM 2-5FT CNTNR GRWN)	CHICKASAW PLUM	8 X 8		0.03	14.28	3
	802-12.65	MALUS ANGUSTIFOLIA (SOUTHERN CRABAPPLE SEEDLING B.R.)	SOUTHERN CRABAPPLE	8 X 8		0.03	14.28	3
	802-13.72	RHUS TYPHINA (STAGHORN SUMAC SDLING B.R.)	STAGHORN SUMAC	8 X 8		0.03	14.28	3
(1)	802-13.67	RHODODENDRON CALENDULACEUM (FLAMING AZALEA SDLING B.R.)	FLAMING AALEA	AS DIRECTED		0.03	-	3
(1)	802-13.63	VACCINIUM STAMINEUM (DEERBERRY SDLNG B.R.)	DEERBERRY	AS DIRECTED		0.03	-	3
	STR-5 - ZONE 2 TOTAL					0.03	100	27
	TOTAL					**0.04**	100	**81**

(1) ZONE 2 TREES AND SHRUBS ARE LISTED IN ORDER OF DOMINANCE. THE FIRST FIVE SHOULD BE USED FOR MITIGATION. IF ANY OF THESE ARE NOT AVAILABLE, EITHER OF THE LAST TWO ON THE LIST CAN BE SUBSTITUTED

STR-4
TYPICAL XS



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DEPARTMENT OF TRANSPORTATION

MITIGATION STREAM LAYOUT & PLANTING

22-JAN-2015 07:44
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28F

STR-5 (LT)
STREAM STA. 0+47.50
SR-52 STA. 593+10.00
SR-52 OFFSET -144.50'

BEGIN STR-5 (LT)
STREAM STA. 0+40.00
SR-52 STA. 593+12.00
SR-52 OFFSET 152.00'

END STR-5 (LT)
STREAM STA. 1+23.00
SR-52 STA. 593+13.00
SR-52 OFFSET -69.26'

OLD ALLONS RD. STA. 101+32.57 =
SAVAGE LN. STA. 23+37.20
N 761001.6483
E 2165440.0812

BEGIN STR-5 (RT)
STREAM STA. 0+00.00
SR-52 STA. 593+29.35
SR-52 OFFSET 94.25'

STR-5 (RT)
STREAM STA. 0+17.00
SR-52 STA. 593+45.00
SR-52 OFFSET 95.00'

STR-5 (RT)
STREAM STA. 0+72.50
SR-52 STA. 593+94.00
SR-52 OFFSET 114.00'

STR-5 (RT)
STREAM STA. 1+47.00
SR-52 STA. 594+55.00
SR-52 OFFSET 140.00'

END STR-5 (RT)
STREAM STA. 1+65.00
SR-52 STA. 594+67.00
SR-52 OFFSET 152.00'

STR-5 (RT)
STREAM STA. 1+05.00
SR-52 STA. 594+23.00
SR-52 OFFSET 117.00'

SR-52 STA. 596+86.45 =
OLD ALLONS RD. STA. 103+94.06
N 761100.5066
E 2165227.1253

SR-52 STA. 599+08.30 =
ELMER LANGFORD RD. STA. 110+00.00
N 760895.9318
E 2165312.2147

MATCH LINE STA. 591+50

MATCH LINE STA. 604+50

SR-52

OLD ALLONS ROAD

ELMER LANGFORD RD.

PRES. R.O.W.

PROP. ROW

CUT SLOPE

FILL SLOPE

GRAVEL

TRAILER

1-SF CHURCH

OUT HOUSE

POND

GROUND OBSCURED

WWC-6

CP-552

WTL-12

WTL-11

WTL-10

STR-5 (LT) PROFILE

VPI 0+40.00
EL. 1387.40

VPI 1+23.00
EL. 1383.51

-4.69%

STR-5 (RT) PROFILE

VPI 0+00.00
EL. 1382.87

VPI 0+75.00
EL. 1382.49

VPI 0+90.00
EL. 1382.61

VPI 1+63.42
EL. 1381.78

VPI 1+65.00
EL. 1381.77

-0.50%

0.75%

+1.13%

-0.65%

1405
1400
1395
1390
1385
1380
1375
1370
1365
1360

0+00 0+50 1+00 1+50 2+00 2+50 3+00

0+00 0+50 1+00 1+50 2+00 2+50

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SEALED BY

KATHERINE J. LLOYD
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XIV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MITIGATION STREAM LAYOUT

22-JAN-2015 07:44
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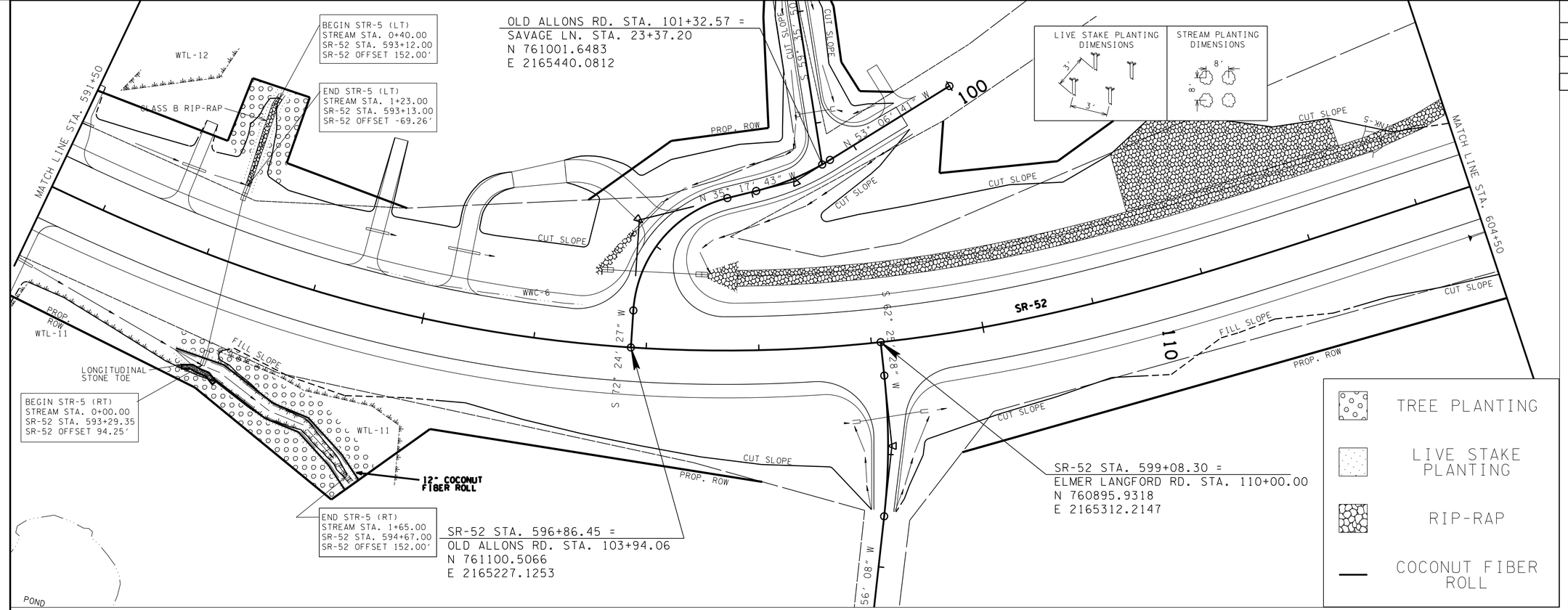
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28G

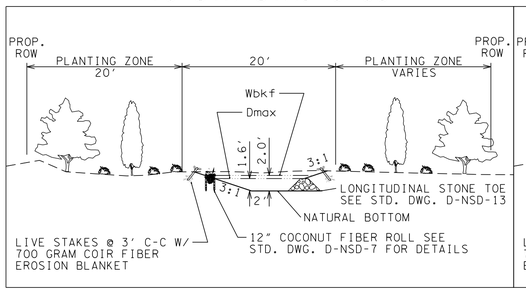


STREAM PLANTING TABLE

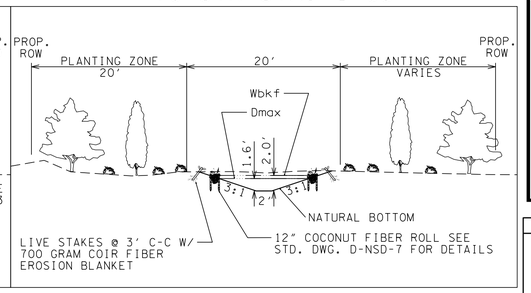
ITEM NO.	DESCRIPTION	COMMON NAME	SPACING (FT)	STEMS/ACRE	AREA (ACRES)	DISTRIBUTION (PERCENT)	QUANTITY (STEMS)
ZONE 1 - STREAMBANK - LIVE STAKE PLANTING							
802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	BLACK WILLOW	3 X 3	4840	0.05	16.67	41
802-02.31	CUTTINGS: SALIX SERICEA (18IN-24IN)	SILKY WILLOW	3 X 3		0.05	16.67	41
802-02.34	CUTTINGS: SALIX INTERIOR (18IN-24IN)	SANDBAR WILLOW	3 X 3		0.05	16.67	41
802-02.35	CUTTINGS: CEPHALANTHUS OCCIDENTALIS (18IN-24IN)	BUTTON BUSH	3 X 3		0.05	16.67	41
802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	SILKY DOGWOOD	3 X 3		0.05	16.67	41
802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	ELDERBERRY	3 X 3		0.05	16.67	41
ZONE 1 TOTAL					0.05	100	246
STR-5 - ZONE 2 - FLOOD PLAIN AND UPLAND AREAS - TREE PLANTING							
802-11.12	CORNUS FLORIDA (FLOWERING DOGWOOD 2-5FT CNTNR GRWN)	FLOWERING DOGWOOD	8 X 8	680	0.22	14.28	22
802-11.11	CERCIS CANADENSIS (REDBUD 2-5FT CNTNR GRWN)	REDBUD	8 X 8		0.22	14.28	22
802-13.15	PHYSOCARPUS OPULIFOLIUS (NINEBARK) 2-5FT C.G.	NINEBARK	8 X 8		0.22	14.28	22
802-11.62	CORNUS ALTERNIFOLIA (ALTERNATE LEAF DGWOOD 2-5FT CNTNR GRWN)	ALTERNATE LEAF DOGWOOD	8 X 8		0.22	14.28	22
802-11.66	PRUNUS ANGUSTIFOLIA (CHICKASAW PLUM 2-5FT CNTNR GRWN)	CHICKASAW PLUM	8 X 8		0.22	14.28	22
802-12.65	MALUS ANGUSTIFOLIA (SOUTHERN CRABAPPLE SEEDLING B.R.)	SOUTHERN CRABAPPLE	8 X 8		0.22	14.28	22
802-13.72	RHUS TYPHINA (STAGHORN SUMAC SDLING B.R.)	STAGHORN SUMAC	8 X 8		0.22	14.28	22
(1) 802-13.67	RHODODENDRON CALENDULACEUM (FLAMING AZALEA SDLING B.R.)	FLAMING AALEA	AS DIRECTED		0.22	-	22
(1) 802-13.63	VACCINIUM STAMINEUM (DEERBERRY SDLNG B.R.)	DEERBERRY	AS DIRECTED		0.22	-	22
STR-5 - ZONE 2 TOTAL					0.22	100	198
TOTAL					**0.27**		**444**

(1) ZONE 2 TREES AND SHRUBS ARE LISTED IN ORDER OF DOMINANCE. THE FIRST FIVE SHOULD BE USED FOR MITIGATION. IF ANY OF THESE ARE NOT AVAILABLE, EITHER OF THE LAST TWO ON THE LIST CAN BE SUBSTITUTED

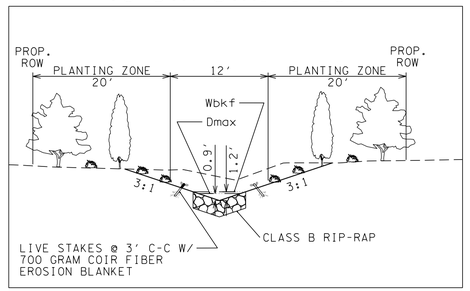
STR-5 (RT) TYPICAL XS FROM STR. STA. -0+08 TO STR STA. 0+08



STR-5 (RT) TYPICAL XS FROM STR. STA. 0+08 TO STR STA. 1+65



STR-5 (LT) TYPICAL XS FROM STR. STA. 0+40 TO STR STA. 1+23



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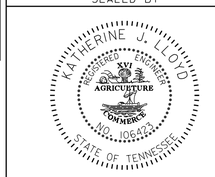

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

MITIGATION STREAM PLANTING & TYPICAL SECTIONS

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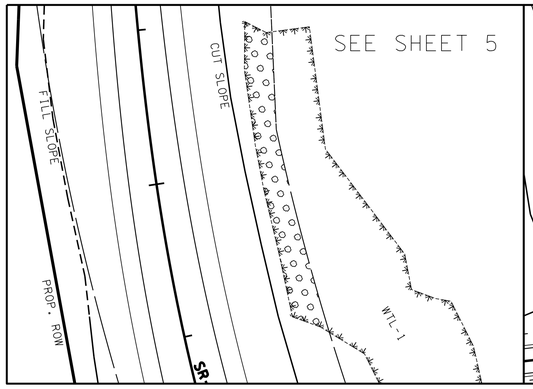
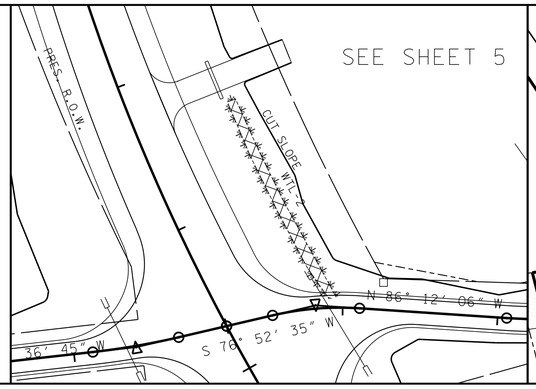
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28H

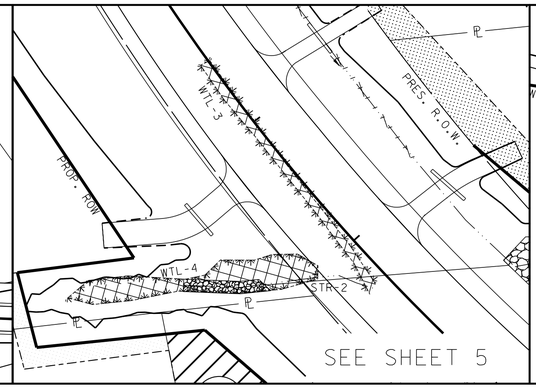
WTL - 1



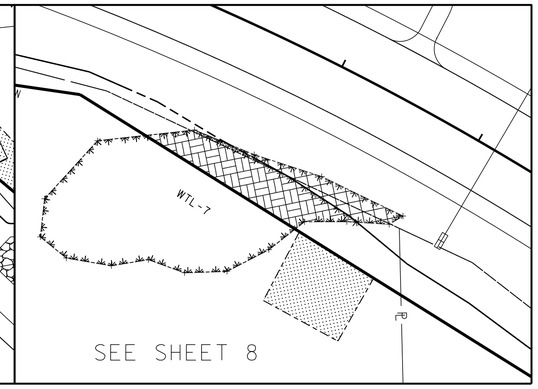
WTL - 2



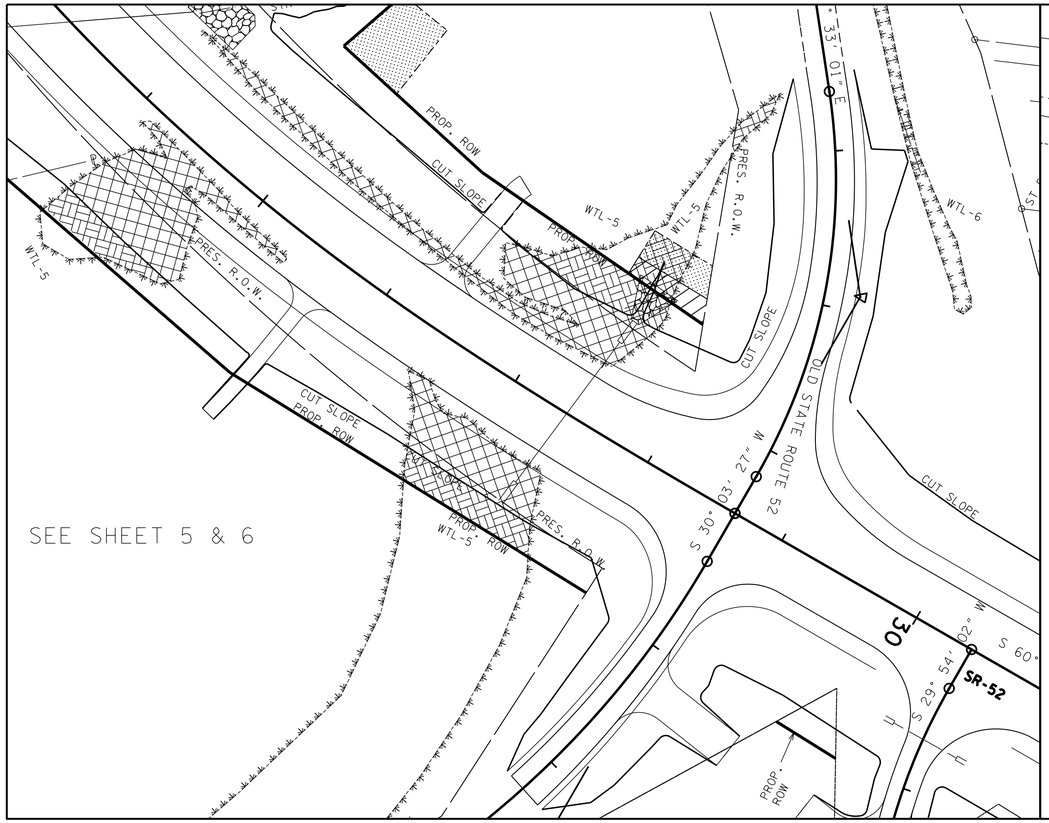
WTL - 3 & 4



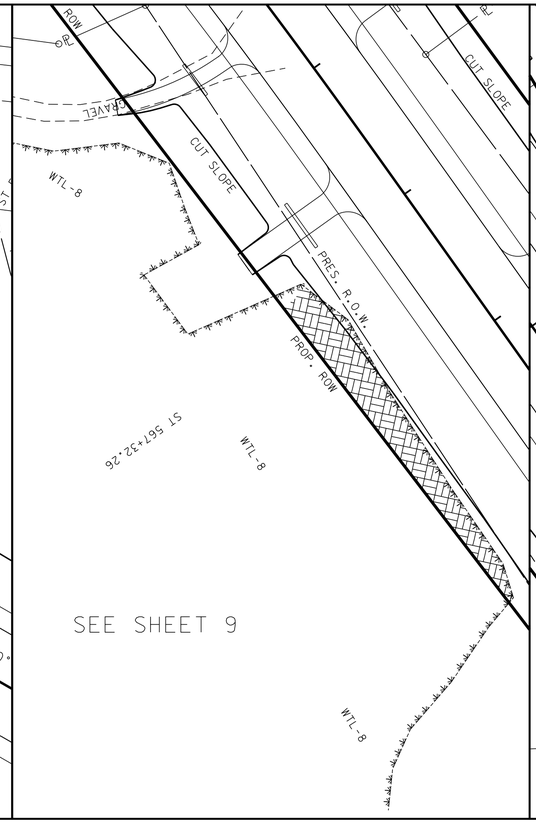
WTL - 7



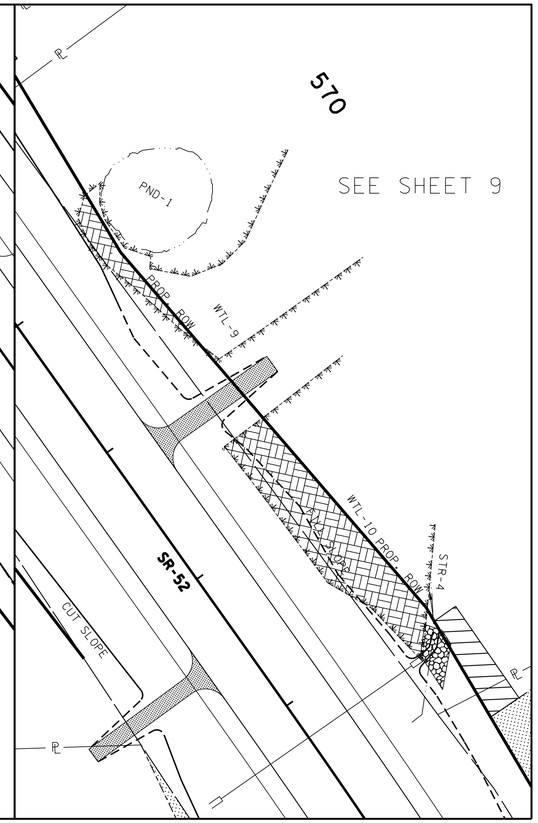
WTL - 5 & 6



WTL - 8

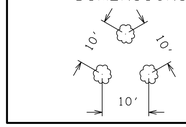


WTL - 9 & 10



SEE SHEET 28I FOR WETLAND MITIGATION & WETLAND PLANTING TABLES

WETLAND PLANTING DIMENSIONS



LEGEND	WETLAND IMPACTS
	PERMANENT IMPACT
	TEMPORARY IMPACT

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DEPARTMENT OF TRANSPORTATION

MITIGATION WETLAND IMPACTS

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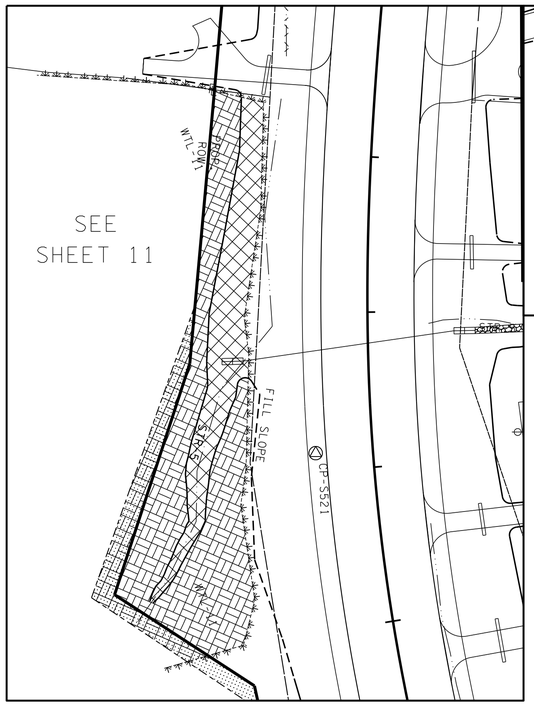
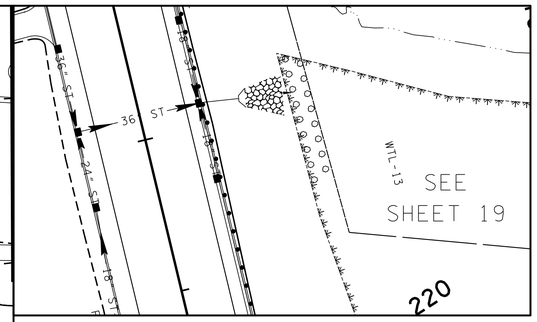
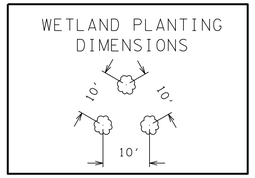
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28I

WTL - 11



WTL - 13





WETLAND IMPACT MITIGATION TABLE

WETLAND	TYPE	PERMANENT IMPACTS	TEMPORARY IMPACTS	
WTL - 1	FORESTED		FOLLOW STANDARD WETLAND IMPACTS - 0.0770 AC - PLANT TREES	(1),(2)
WTL - 2	EMERGENT	MITIGATE 0.0200 AC WITH WETLAND BANK		
WTL - 3	EMERGENT	MITIGATE 0.0200 AC WITH WETLAND BANK		
WTL - 4	EMERGENT	MITIGATE 0.0532 AC WITH WETLAND BANK	FOLLOW STANDARD WETLAND IMPACTS - 0.0033 AC	(1)
WTL - 5	EMERGENT	MITIGATE 0.2934 AC WITH WETLAND BANK	FOLLOW STANDARD WETLAND IMPACTS	(1)
WTL - 6	EMERGENT	MITIGATE 0.0100 AC WITH WETLAND BANK		
WTL - 7	EMERGENT	MITIGATE 0.0240 AC WITH WETLAND BANK	FOLLOW STANDARD WETLAND IMPACTS - 0.0630 AC	(1)
WTL - 8	EMERGENT	MITIGATE 0.0040 AC WITH WETLAND BANK	FOLLOW STANDARD WETLAND IMPACTS - 0.1000 AC	(1)
WTL - 9	EMERGENT		FOLLOW STANDARD WETLAND IMPACTS - 0.0230 AC	(1)
WTL - 10	EMERGENT	MITIGATE 0.0330 AC WITH WETLAND BANK	FOLLOW STANDARD WETLAND IMPACTS - 0.0100 AC	(1)
WTL - 11	EMERGENT	MITIGATE 0.1300 AC WITH WETLAND BANK	FOLLOW STANDARD WETLAND IMPACTS - 0.2300 AC	(1)
WTL - 13	FORESTED		FOLLOW STANDARD WETLAND IMPACTS - 0.0230 AC - PLANT TREES	(1),(2)

(1) SEE MITIGATION NOTES SHEET 29A FOR STANDARD TEMPORARY WETLAND IMPACT PROCEDURE
(2) TREE PLANTING ONLY REQUIRED FOR THE FORESTED WETLANDS (WTL-1 & WTL-13)

LEGEND	WETLAND IMPACTS
	PERMANENT IMPACT
	TEMPORARY IMPACT

WETLAND PLANTING TABLE

ITEM NO.	DESCRIPTION	COMMON NAME	SPACING (FT)	STEMS/ACRE	AREA (ACRES)	DISTRIBUTION (PERCENT)	QUANTITY (STEMS)
WTL-1 - TREE PLANTING							
802-11.04	ACER SACCHARUM (SUGAR MAPLE 2-5FT CNTNR GRWN)	SUGAR MAPLE	10 X 10		0.04	9.09	2
802-11.40	SALIX NIGRA (BLACK WILLOW 2-5FT CNTNR GRWN)	BLACK WILLOW	10 X 10		0.04	9.09	2
802-11.26	PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN)	SYCAMORE	10 X 10		0.04	9.09	2
802-11.16	FRAXINUS PENNSYLVANICA (GREEN ASH 2-5FT CNTNR GRWN)	GREEN ASH	10 X 10		0.04	9.09	2
802-11.44	ULMUS AMERICANA (AMERICAN ELM 2-5FT CNTNR GRWN)	AMERICAN ELM	10 X 10		0.04	9.09	2
802-13.53	CEPHALANTHUS OCCIDENTALIS (BUTTONBUSH SDLNG BARE ROOT)	BUTTONBUSH	10 X 10	436	0.04	9.09	2
802-12.03	ACER SACCHARINUM (SILVER MAPLE SEEDLNG B.R.)	SILVER MAPLE	10 X 10		0.04	9.09	2
802-12.40	SALIX NIGRA (BLACK WILLOW SEEDLNG B.R.)	BLACK WILLOW	10 X 10		0.04	9.09	2
802-12.16	FRAXINUS PENNSYLVANICA (GREEN ASH SEEDLNG B.R.)	GREEN ASH	10 X 10		0.04	9.09	2
802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	SILKY DOGWOOD	10 X 10		0.04	9.09	2
802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	ELDERBERRY	10 X 10		0.04	9.09	2
WTL-1 TOTAL					0.04	100	22
WTL-13 - TREE PLANTING							
802-11.04	ACER SACCHARUM (SUGAR MAPLE 2-5FT CNTNR GRWN)	SUGAR MAPLE	10 X 10		0.03	9.09	2
802-11.40	SALIX NIGRA (BLACK WILLOW 2-5FT CNTNR GRWN)	BLACK WILLOW	10 X 10		0.03	9.09	2
802-11.26	PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN)	SYCAMORE	10 X 10		0.03	9.09	2
802-11.16	FRAXINUS PENNSYLVANICA (GREEN ASH 2-5FT CNTNR GRWN)	GREEN ASH	10 X 10		0.03	9.09	2
802-11.44	ULMUS AMERICANA (AMERICAN ELM 2-5FT CNTNR GRWN)	AMERICAN ELM	10 X 10		0.03	9.09	2
802-13.53	CEPHALANTHUS OCCIDENTALIS (BUTTONBUSH SDLNG BARE ROOT)	BUTTONBUSH	10 X 10	436	0.03	9.09	2
802-12.03	ACER SACCHARINUM (SILVER MAPLE SEEDLNG B.R.)	SILVER MAPLE	10 X 10		0.03	9.09	2
802-12.40	SALIX NIGRA (BLACK WILLOW SEEDLNG B.R.)	BLACK WILLOW	10 X 10		0.03	9.09	2
802-12.16	FRAXINUS PENNSYLVANICA (GREEN ASH SEEDLNG B.R.)	GREEN ASH	10 X 10		0.03	9.09	2
802-02.32	CUTTINGS: CORNUS AMOMUM (18IN-24IN)	SILKY DOGWOOD	10 X 10		0.03	9.09	2
802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	ELDERBERRY	10 X 10		0.03	9.09	2
WTL-13 TOTAL					0.03	100	22
TOTAL					**0.07**		**44**

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MITIGATION WETLAND IMPACTS

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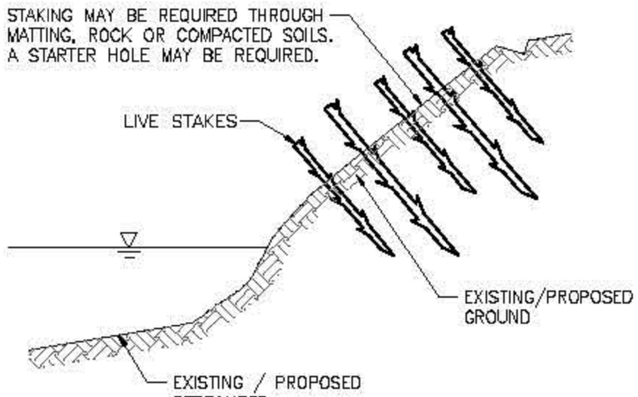
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	28J



NOTES:

LIVE STAKES SHALL BE EVENLY SPACED 3 FT. APART.

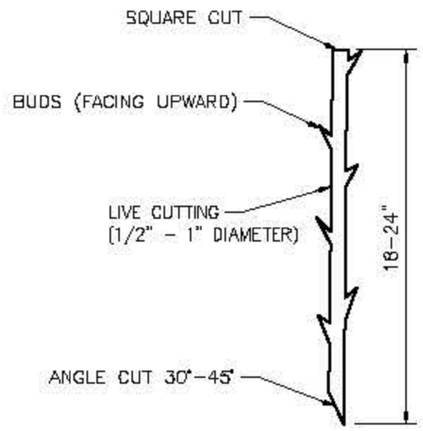
LIVE STAKES SHALL BE DRIVEN UNTIL APPROXIMATELY OF LIVE STAKE IS WITHIN GROUND.

IF STARTER HOLE IS NEEDED, MINIMIZE AIR POCKET.

UTILIZE ALL ON SITE TRANSPLANT MATERIALS MADE AVAILABLE BY THE OWNER. ONCE SOURCE OF TRANSPLANT MATERIAL HAS BEEN HARVESTED, THEN UTILIZE LIVE STAKING.

ALL MATERIALS ARE TO BE APPROVED BY ENGINEER OR ENGINEER'S ONSITE CONSTRUCTION MANAGER.

BANK STABILIZATION WITH LIVE STAKES

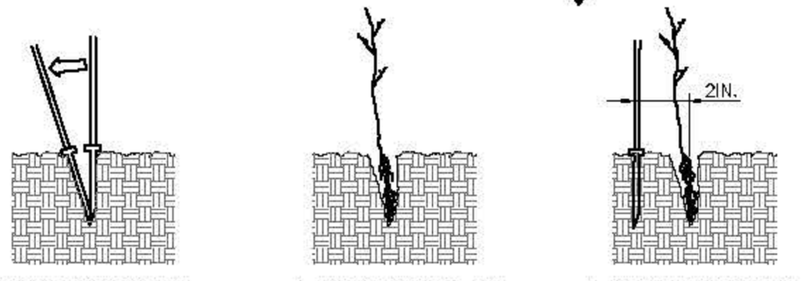


LIVE STAKE

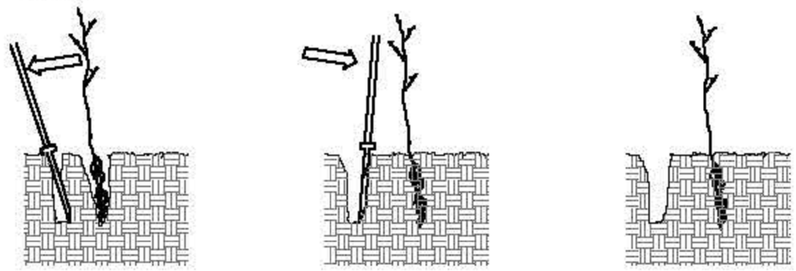
PLANTING BAG:
DURING PLANTING, SEEDLINGS SHALL BE KEPT IN A MOIST CANVAS BAG OR SIMILAR CONTAINER TO PREVENT THE ROOT SYSTEMS FROM DRYING.

KBC PLANTING BAR:
PLANTING BAR SHALL HAVE A BLADE WITH A TRIANGULAR CROSS SECTION, AND SHALL BE 12IN. LONG, 4IN. WIDE AND 1IN. THICK AT CENTER.

ROOT PRUNING:
ALL SEEDLINGS SHALL BE ROOT PRUNED, IF NECESSARY, SO THAT NO ROOTS EXTEND MORE THAN 10 INCHES (10IN.) BELOW THE ROOT COLLAR.



1. INSERT PLANTING BAR AS SHOWN AND PULL HANDLE TOWARD PLANTER.
2. REMOVE PLANTING BAR AND PLACE SEEDLING AT CORRECT DEPTH.
3. INSERT PLANTING BAR 2IN. TOWARD PLANTER FROM SEEDLING.



4. PULL HANDLE OF BAR TOWARD PLANTER, FIRMING SOIL AT BOTTOM.
5. PUSH HANDLE FORWARD FIRMING SOIL AT TOP.
6. LEAVE COMPACTION HOLE OPEN. WATER THOROUGHLY.

DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR

(FOR FLOODPLAIN BUFFER PLANTING AND UPLAND BUFFER PLANTING)

NOTES:

TREE REFORESTATION SHALL BE PLANTED 6' TO 10' ON CENTER, RANDOM SPACING, AVERAGING 8' ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.

OTHER PLANTING METHOD CAN BE USED WITH THE PERMISSION OF THE PLANTING SUPERVISOR.

ALL MATERIALS ARE TO BE APPROVED BY ENGINEER OR ENGINEER'S ONSITE CONSTRUCTION MANAGER.

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MITIGATION DETAILS

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DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28
CONST.	2014	APD/NH-52(48)	29

REV. 12-07-12: CORRECTED BEG. PROJ. NORTHING & EASTING LABELS

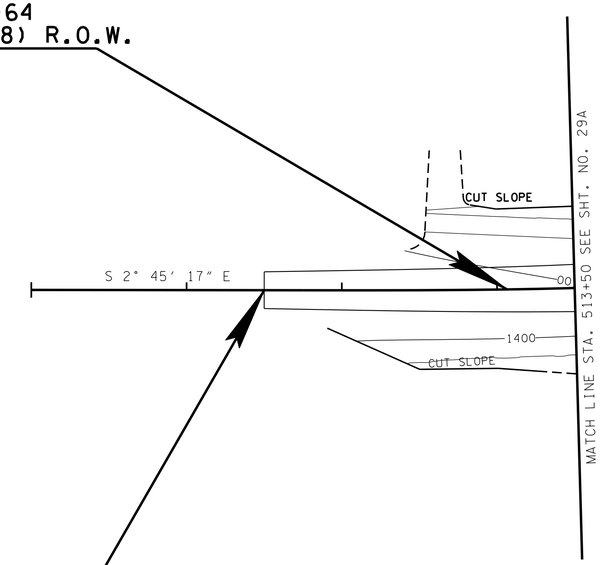
N

510

POT 510+00.00

TS 511+74.79

67002-2233-64
BEGIN PROJ. NO. APD/NH-52(48) R.O.W.
STA. 513+06.40
N 766682.7036
E 2160318.5451



67002-3235-14
BEGIN PROJ. NO. APD/NH-52(48) CONST.
STA. 511+50.00
N 766838.8851
E 2160310.3160

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PROPOSED CONTOURS

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50'

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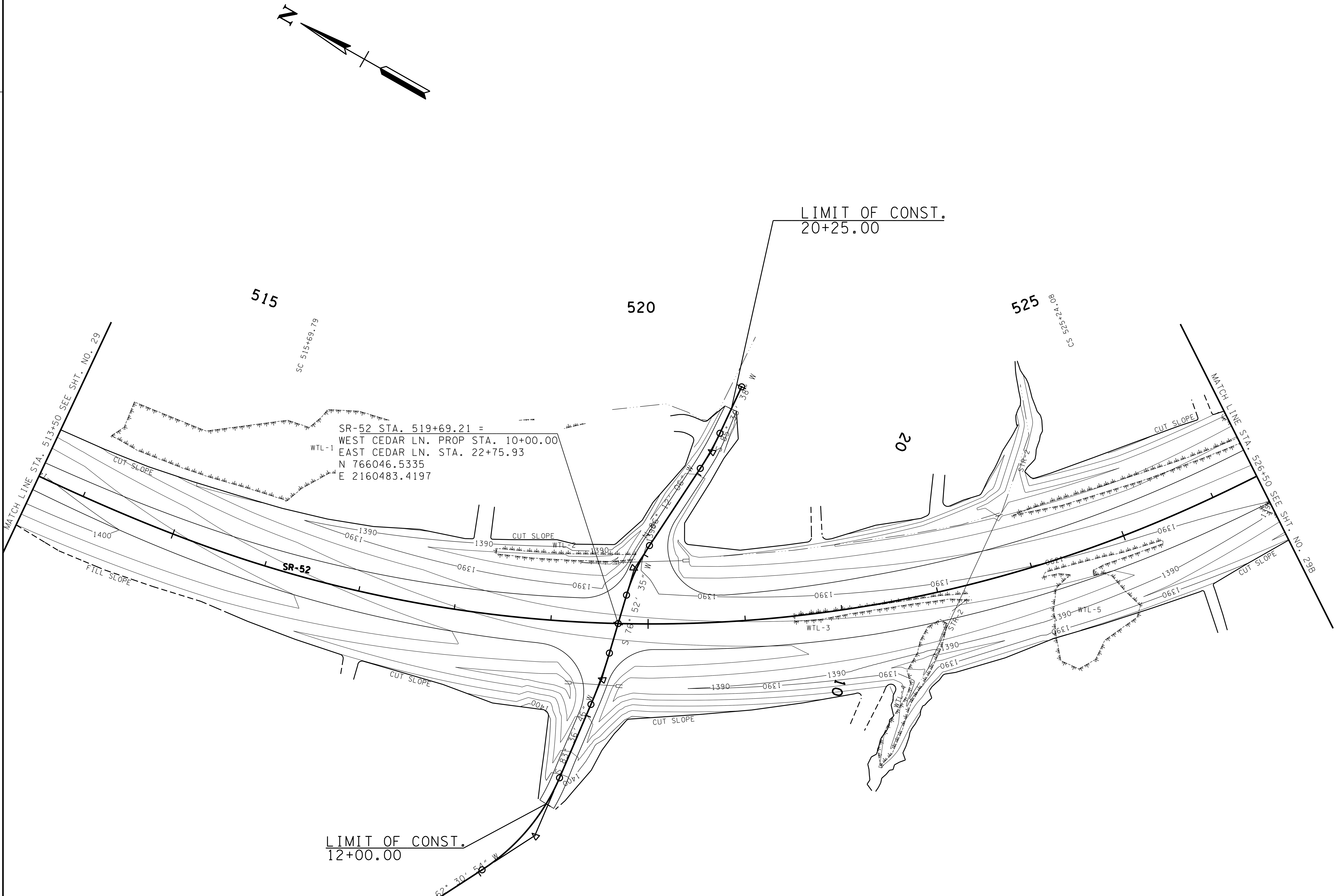
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28A
CONST.	2014	APD/NH-52(48)	29A

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

REV. 12-07-12: ADJUSTED SLOPE LINES FOR STR-1 & STR-2 RELOCATIONS



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SHANE M. HESTER
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 110114
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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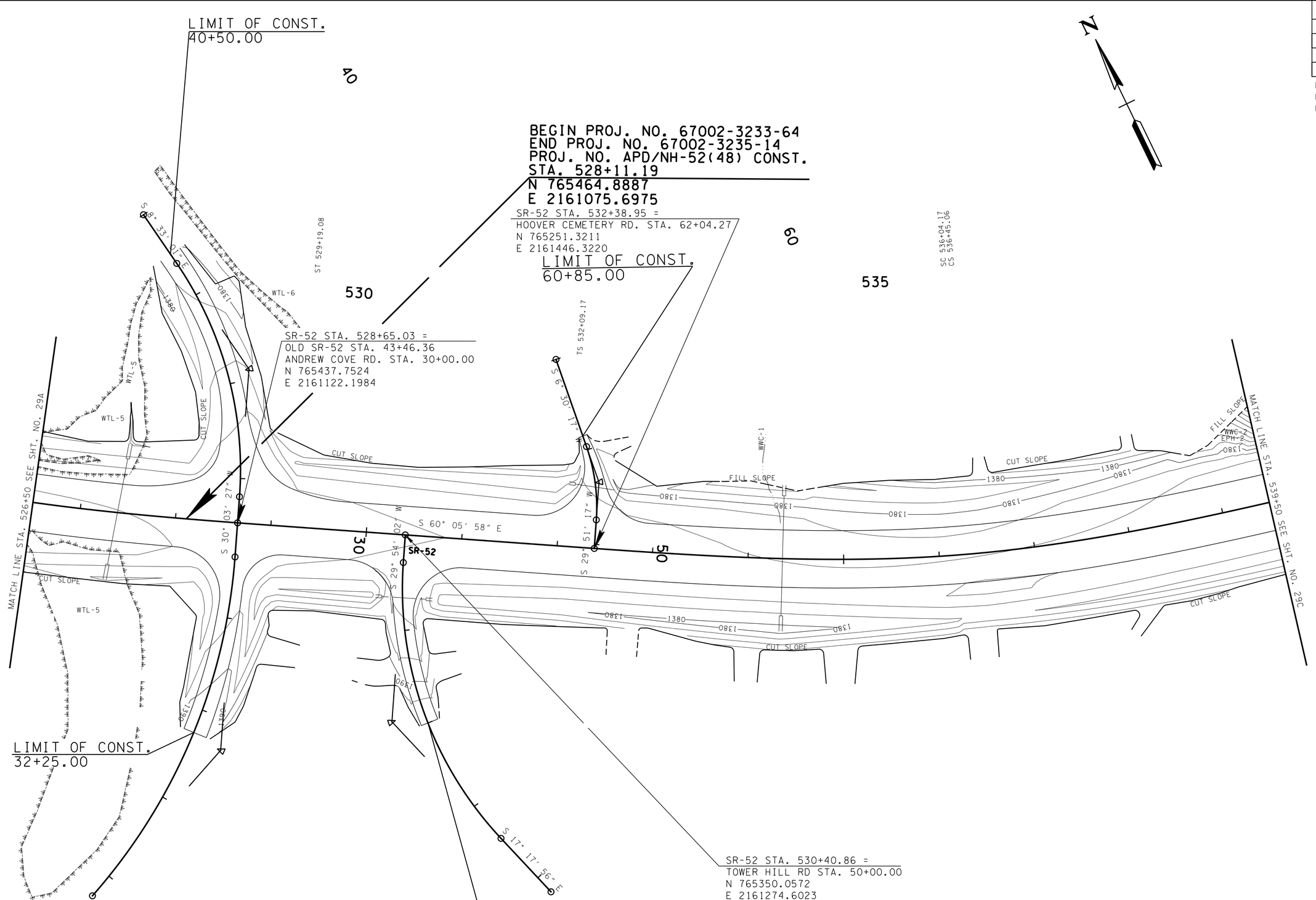
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28B
CONST.	2014	APD/NH-52(48)	29B

REV. 12-07-12: ADDED SLOPE LINES FOR ANDREW COVE RD. PVT. DR. & BOTH TOWER HILL RD. PVT. DRS.



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PROPOSED CONTOURS

STA. 526+50 TO STA. 539+50

SCALE: 1"= 50'

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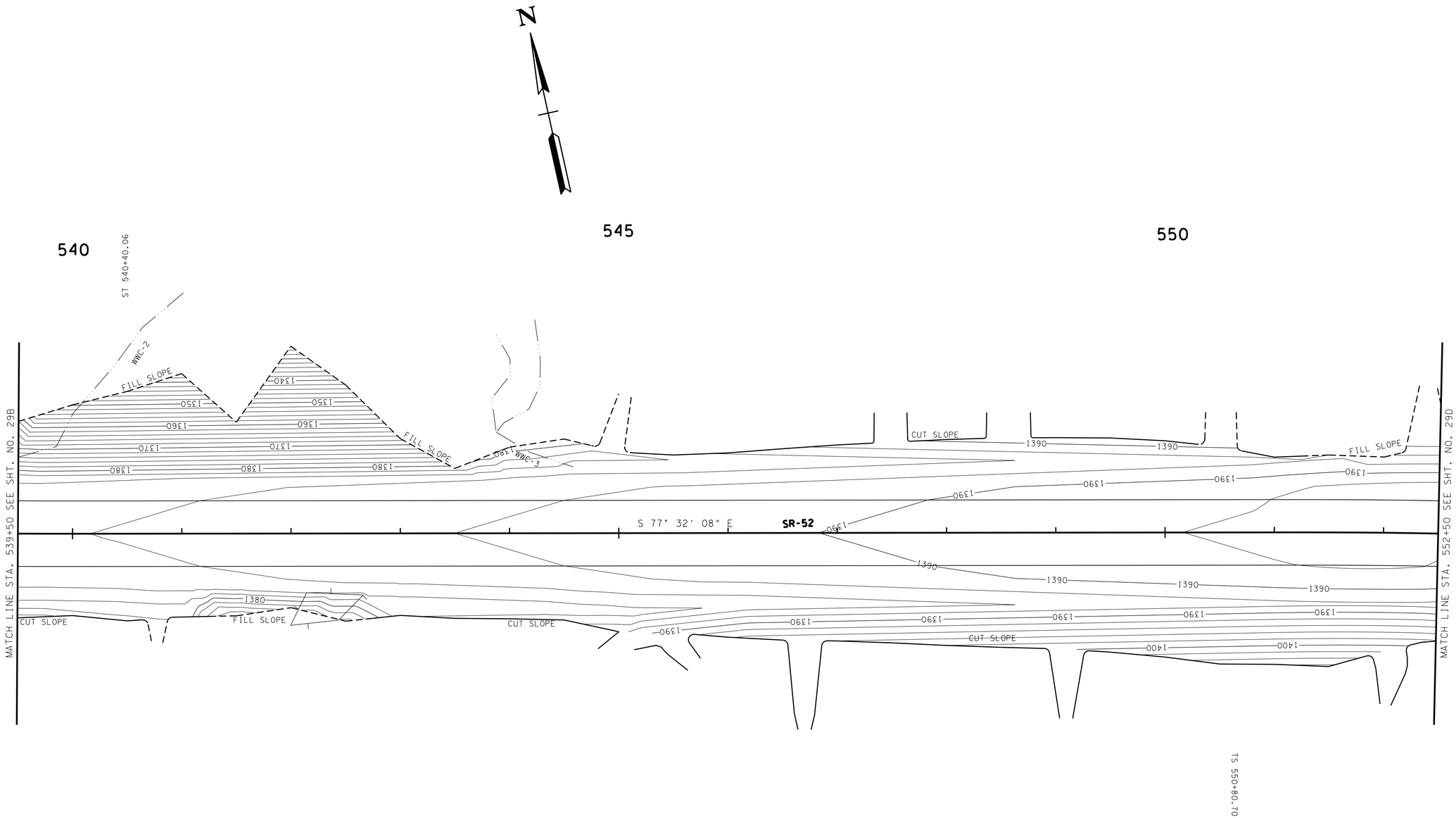
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28C
CONST.	2014	APD/NH-52(48)	29C



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PROPOSED CONTOURS

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

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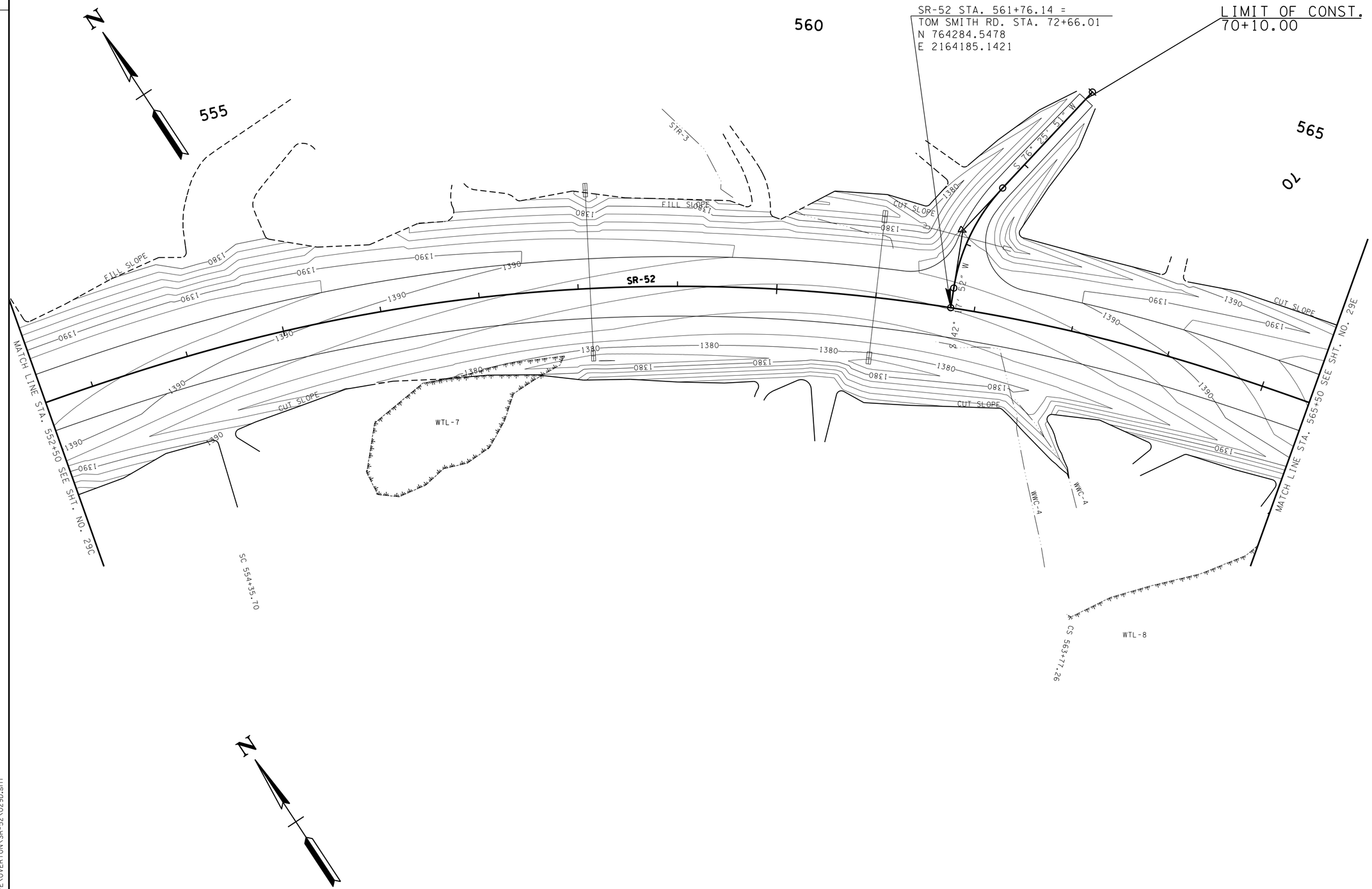
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28D
CONST.	2014	APD/NH-52(48)	29D



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PROPOSED CONTOURS

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28E
CONST.	2014	APD/NH-52(48)	29E

REV. 12-07-12: ADDED SLOPE LINES FOR STR-4

N

LIMIT OF WORK
81+00.00
LIMIT OF CONST.
81+20.00

575

570

80

S 72° 25' 39" W

S 66° 06' 20" W

STR-4

WTL-9

WTL-10

WTL-8

WTL-8

FILL SLOPE

CUT SLOPE

CUT SLOPE

CUT SLOPE

CUT SLOPE

CUT SLOPE

1400

1410

1420

1390

S 35° 23' 51" E

SR-52

MATCH LINE STA. 565+50 SEE SHT. NO. 29D

MATCH LINE STA. 578+50 SEE SHT. NO. 29F

ST 567+32.26

TS 572+22.17

SC 576+02.17

SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786

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KATHERINE J. LLOYD
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XVI
AGRICULTURE
COMMERCE
NO. 108423
STATE OF TENNESSEE

STATE OF TENNESSEE
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PROPOSED CONTOURS

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

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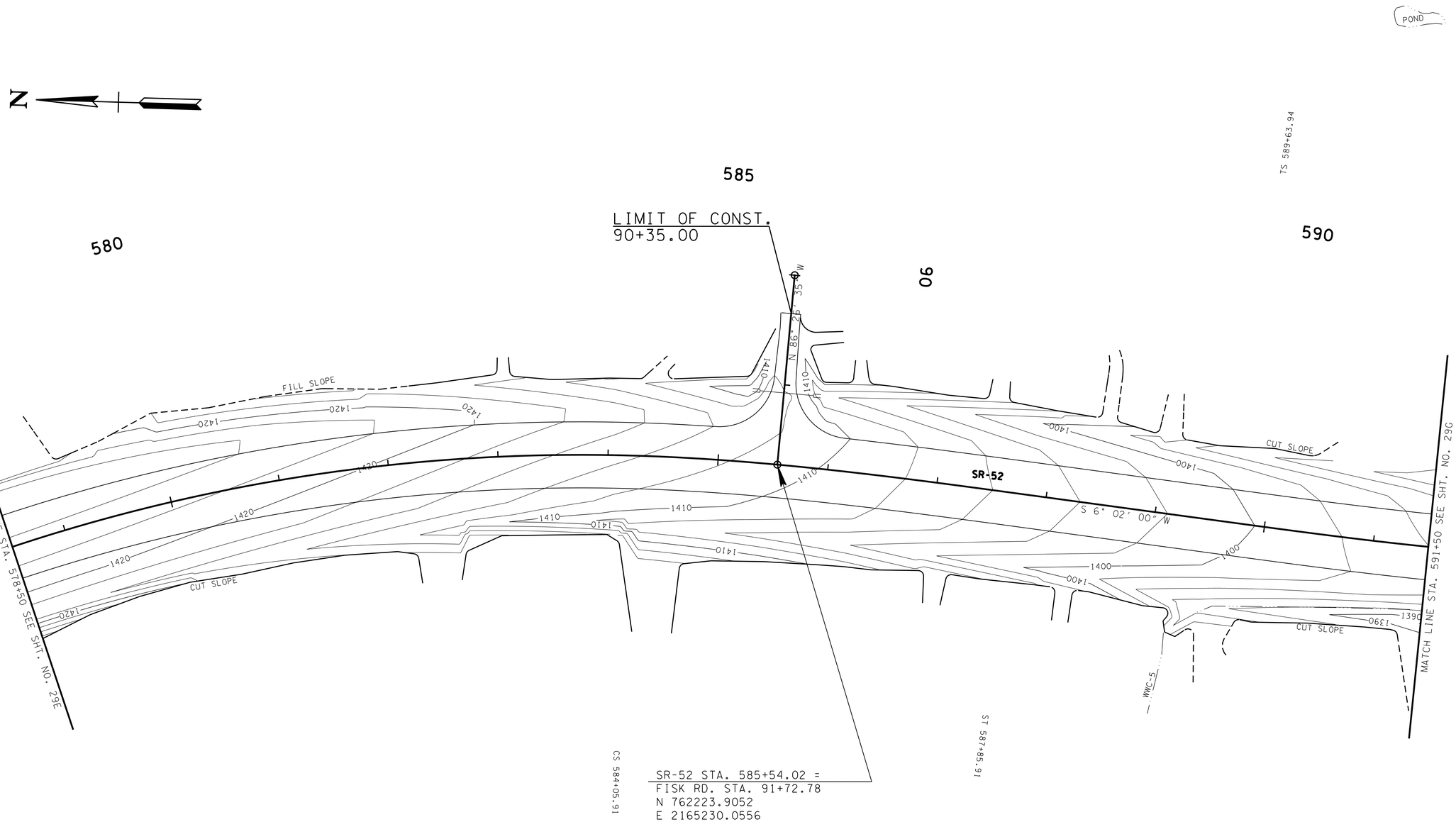
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28F
CONST.	2014	APD/NH-52(48)	29F



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PROPOSED CONTOURS

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50'

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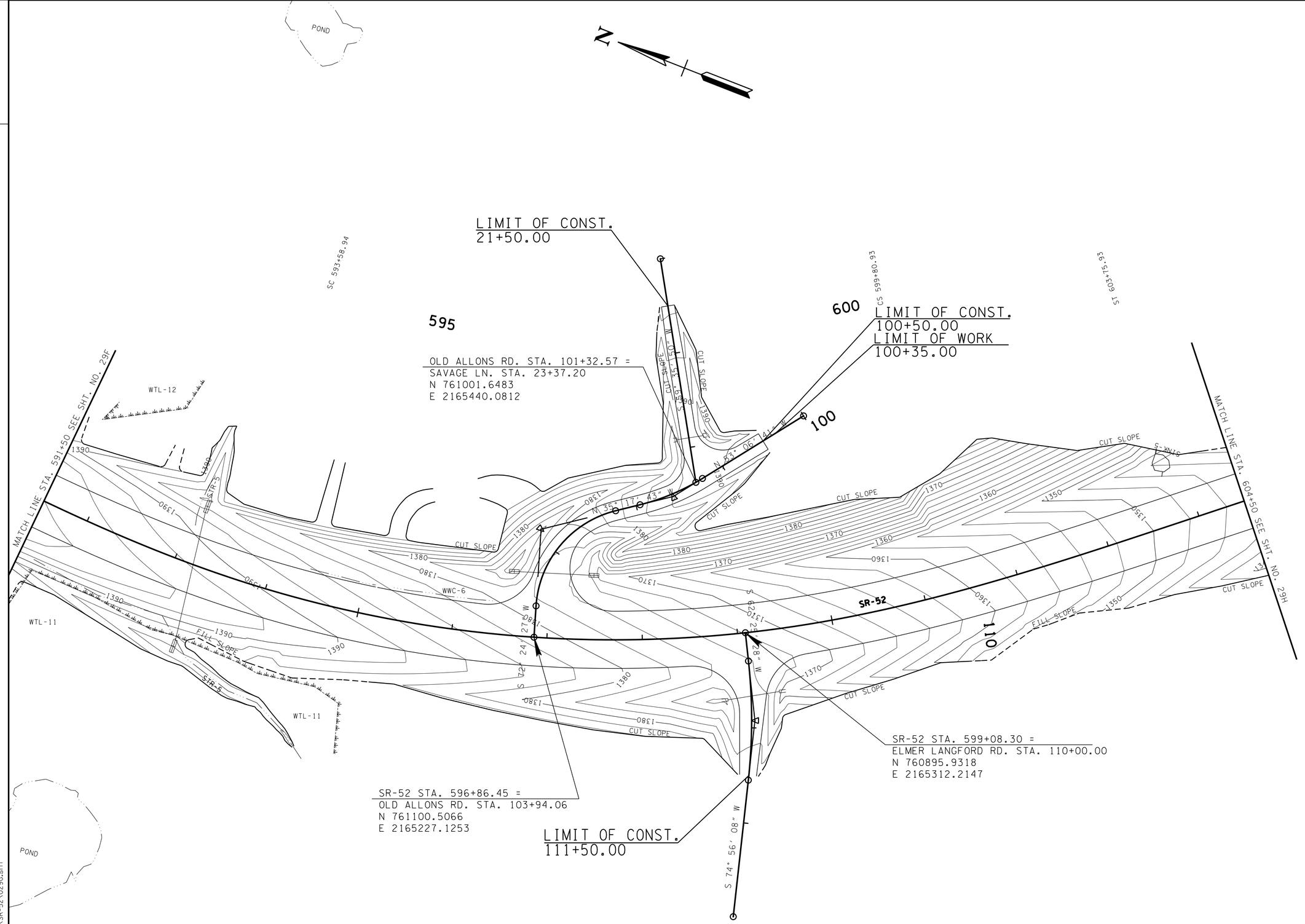
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28G
CONST.	2014	APD/NH-52(48)	29G

REV. 12-07-12: ADJUSTED SLOPE LINES FOR PVT. DRS. STA. 594+41.02 & 595+25.00

REV. 07-15-13: ADJUSTED SLOPE LINES AND CONTOURS PER GEOTECH REPORT



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PROPOSED CONTOURS

STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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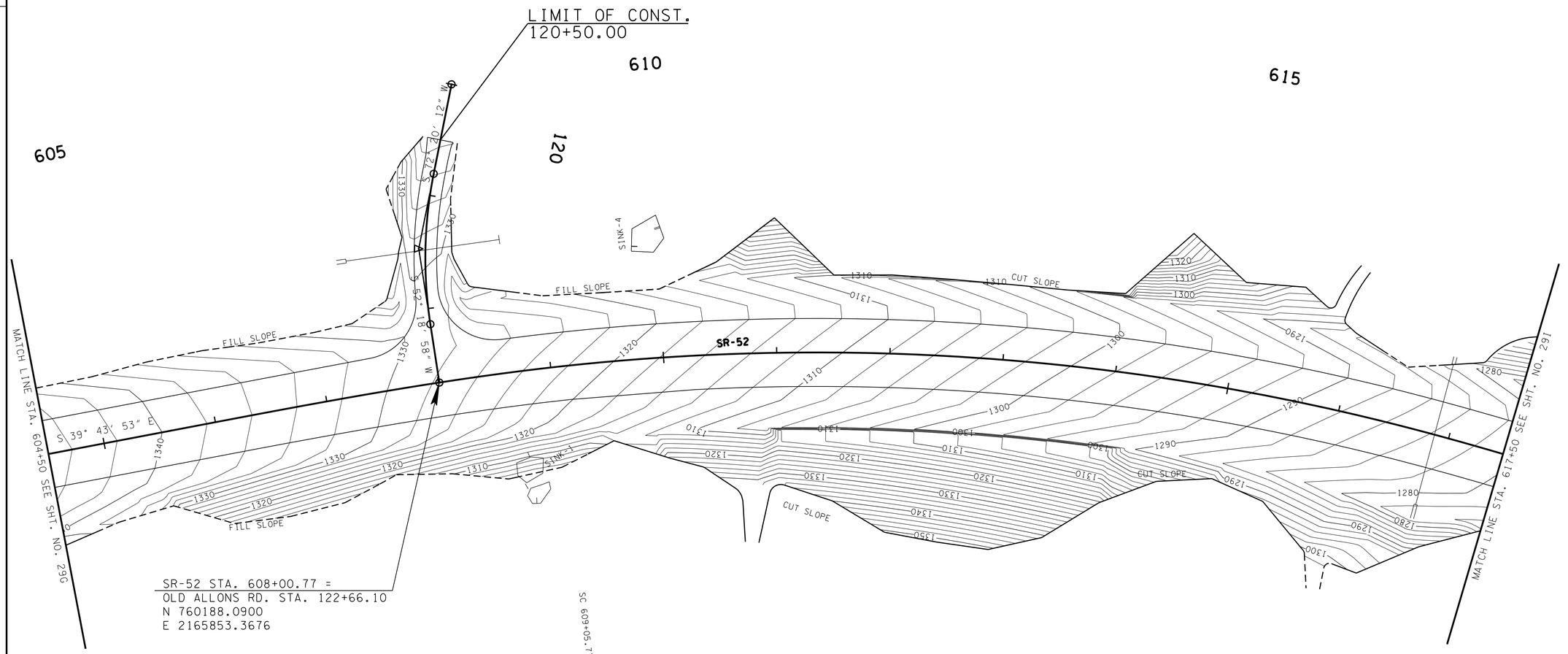
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28H
CONST.	2014	APD/NH-52(48)	29H

REV. 07-15-13: ADJUSTED SLOPE LINES AND CONTOURS PER GEOTECH REPORT



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PROPOSED CONTOURS

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

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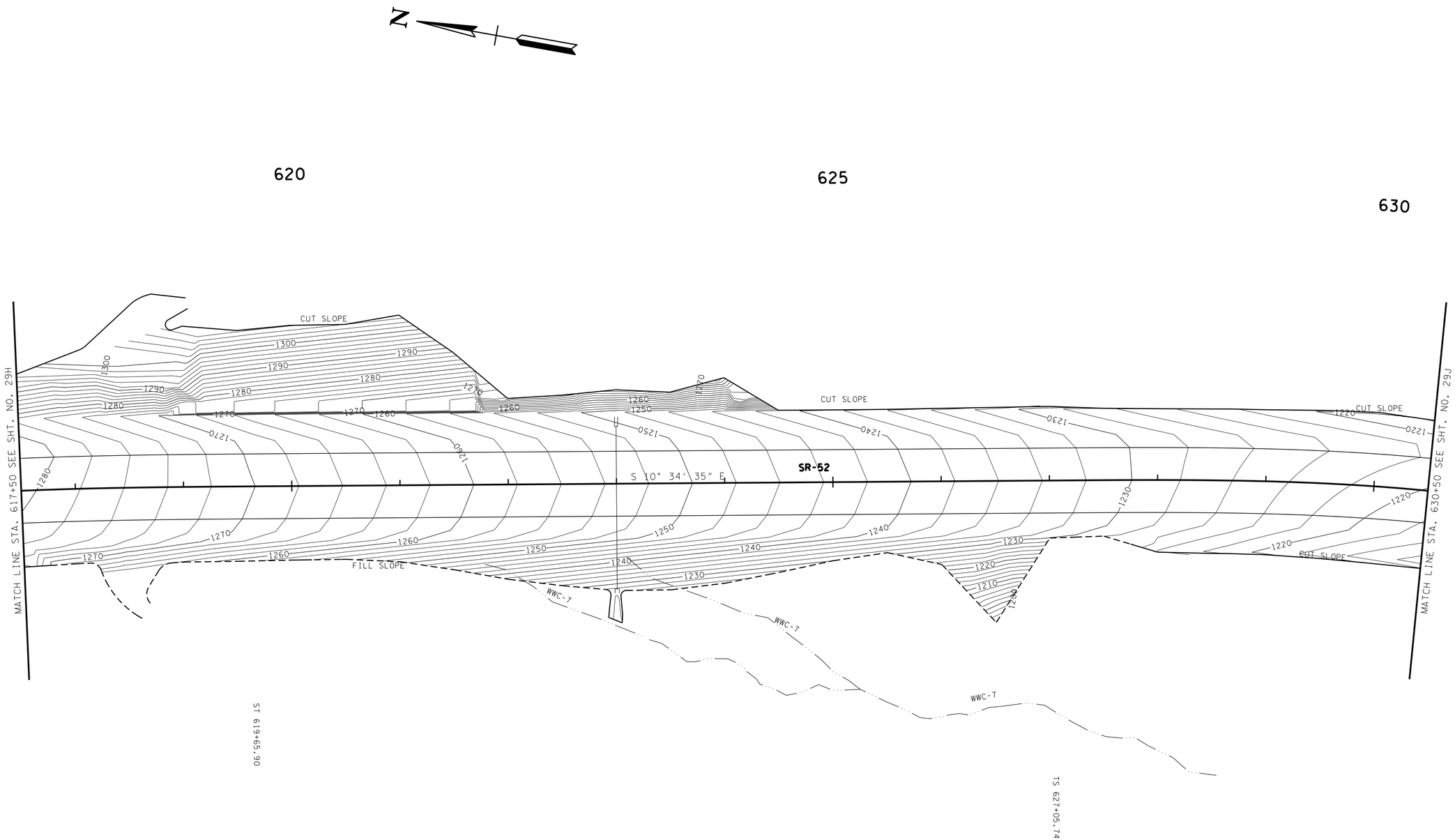
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28I
CONST.	2014	APD/NH-52(48)	29I

REV. 07-15-13: ADJUSTED SLOPE LINES AND CONTOURS PER GEOTECH REPORT



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PROPOSED CONTOURS

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

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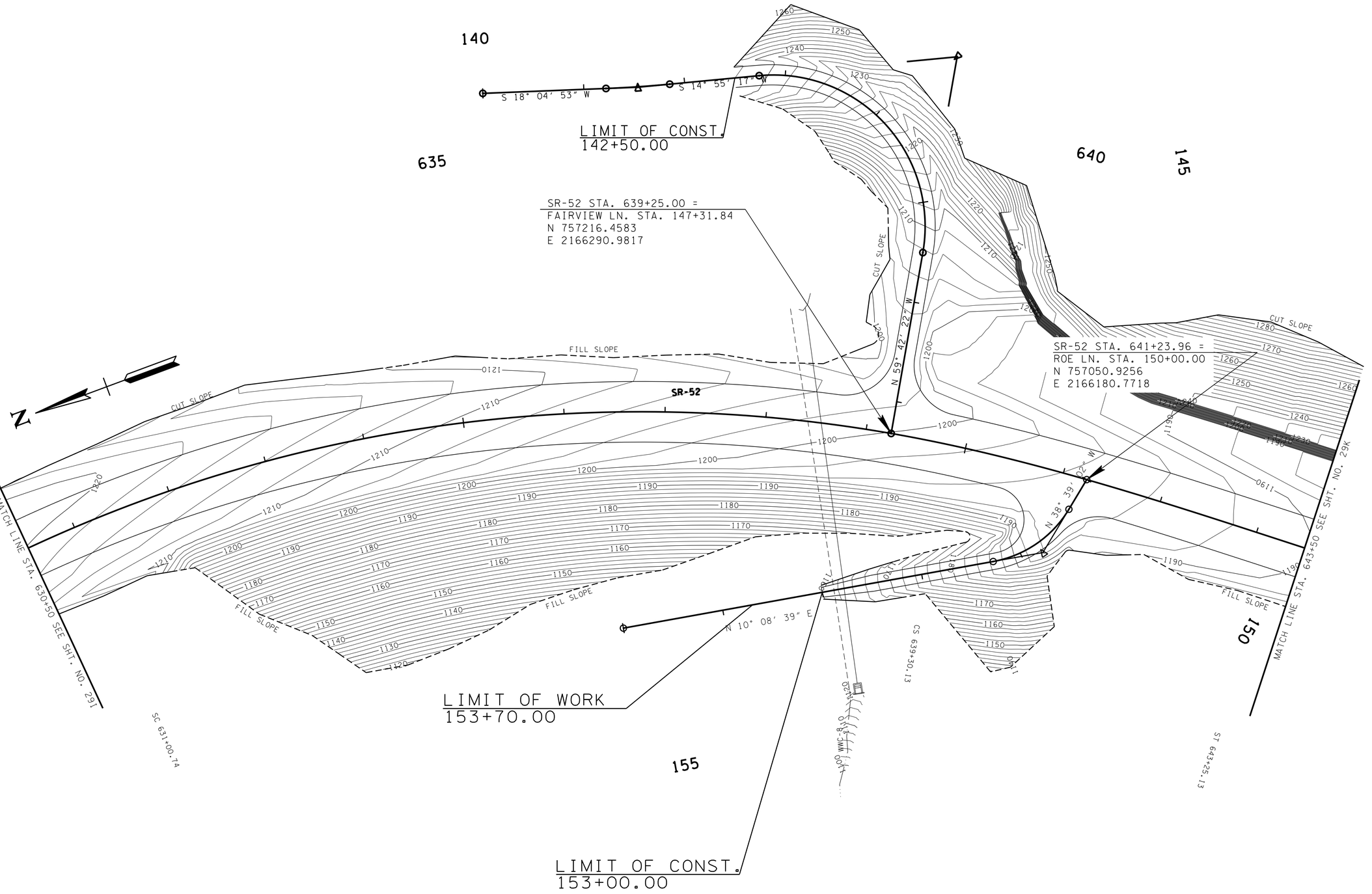
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28J
CONST.	2014	APD/NH-52(48)	29J

REV. 07-15-13: ADJUSTED SLOPE LINES & CONTOURS PER GEOTECH REPORT AND RE-ALIGNED FAIRVIEW LN.

REV. 01-17-14: MOVED CULVERT STA. 638+55.00 AND OUTLET DITCH



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PROPOSED CONTOURS

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50'

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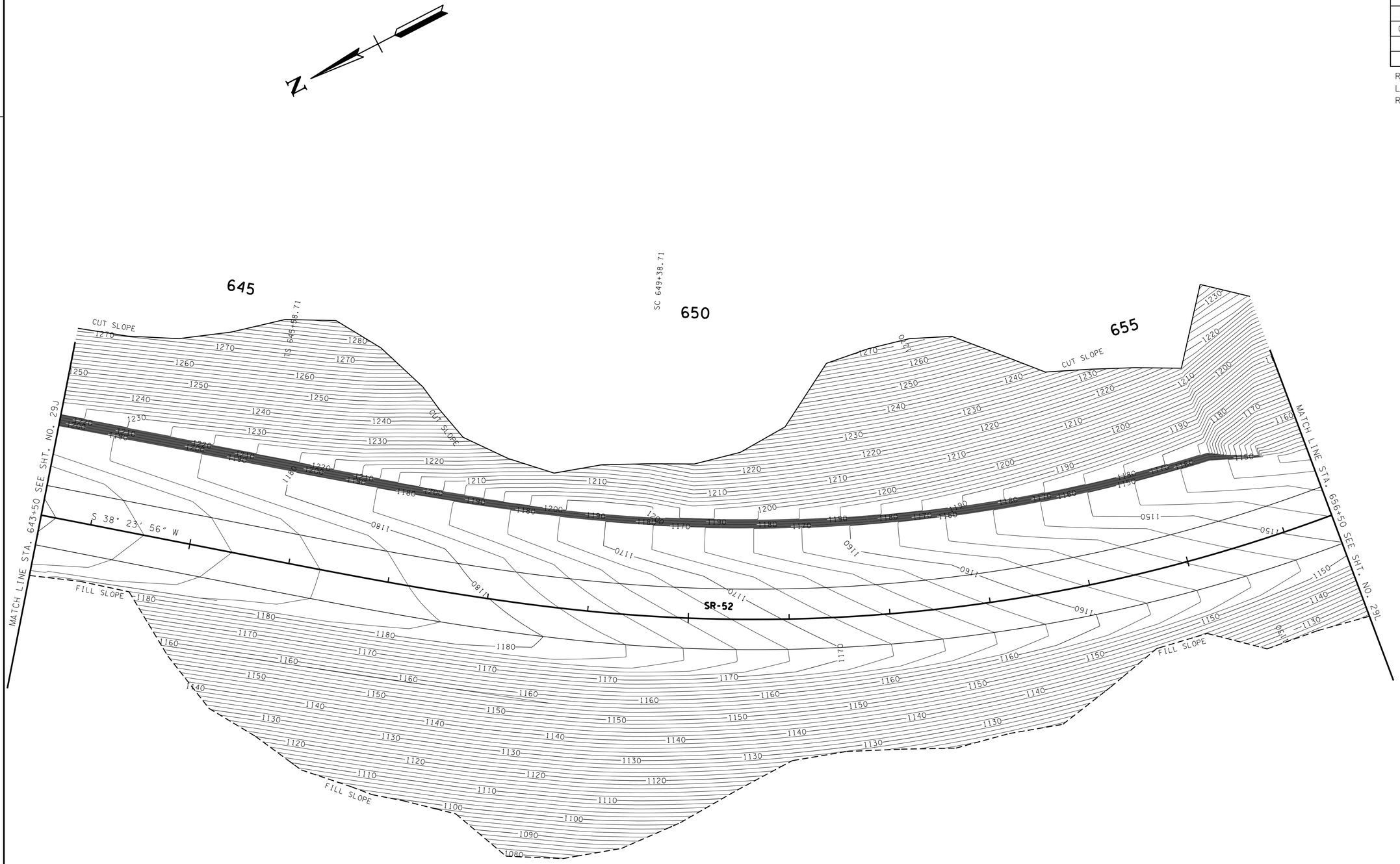
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28K
CONST.	2014	APD/NH-52(48)	29K

REV. 07-15-13: ADJUSTED SLOPE LINES AND CONTOURS PER GEOTECH REPORT



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PROPOSED CONTOURS

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50'

22-JAN-2015 07:47
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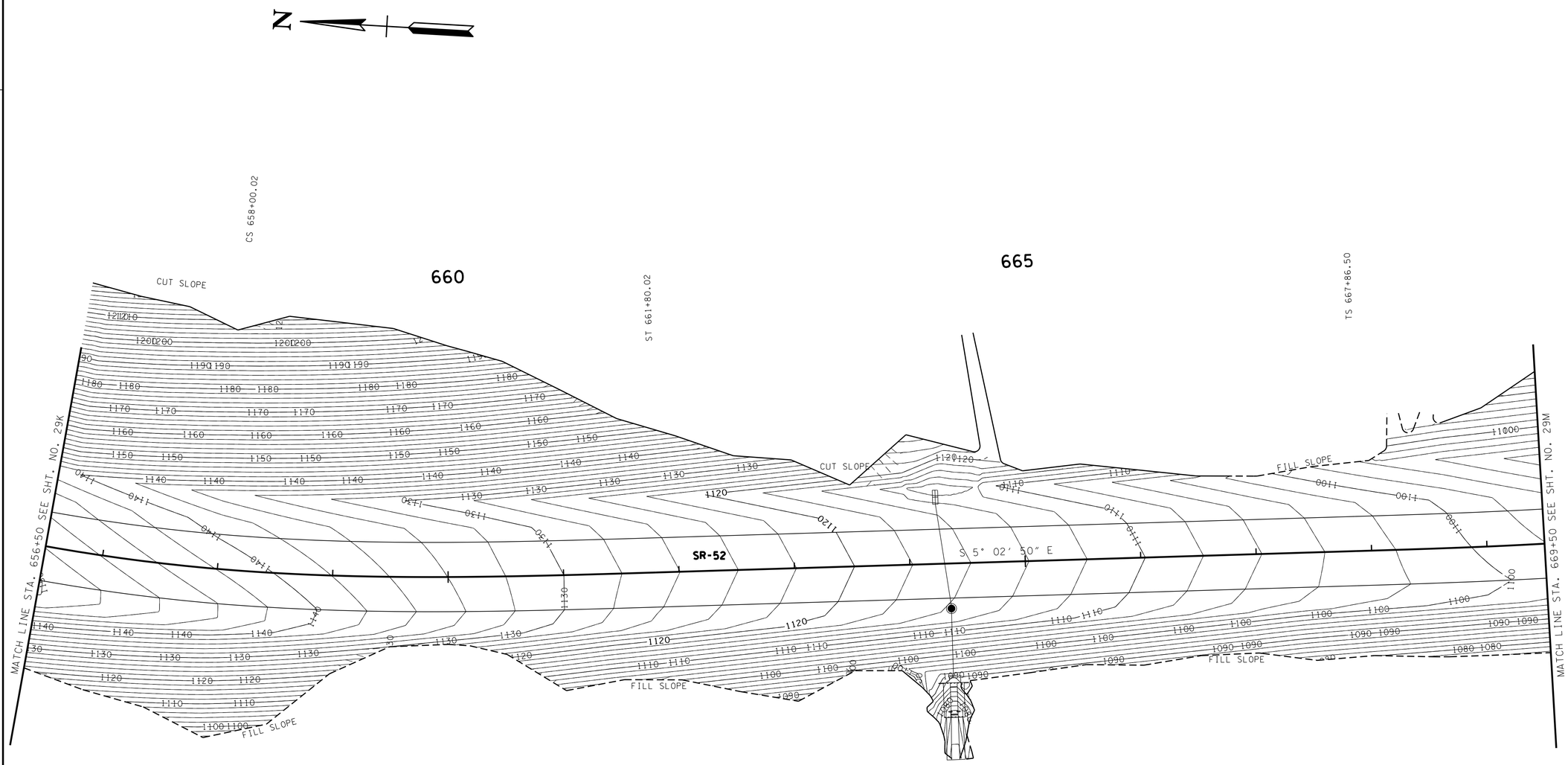
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28L
CONST.	2014	APD/NH-52(48)	29L



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NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
SUMMERS
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA. 656+50 TO STA. 669+50

SCALE: 1"= 50'

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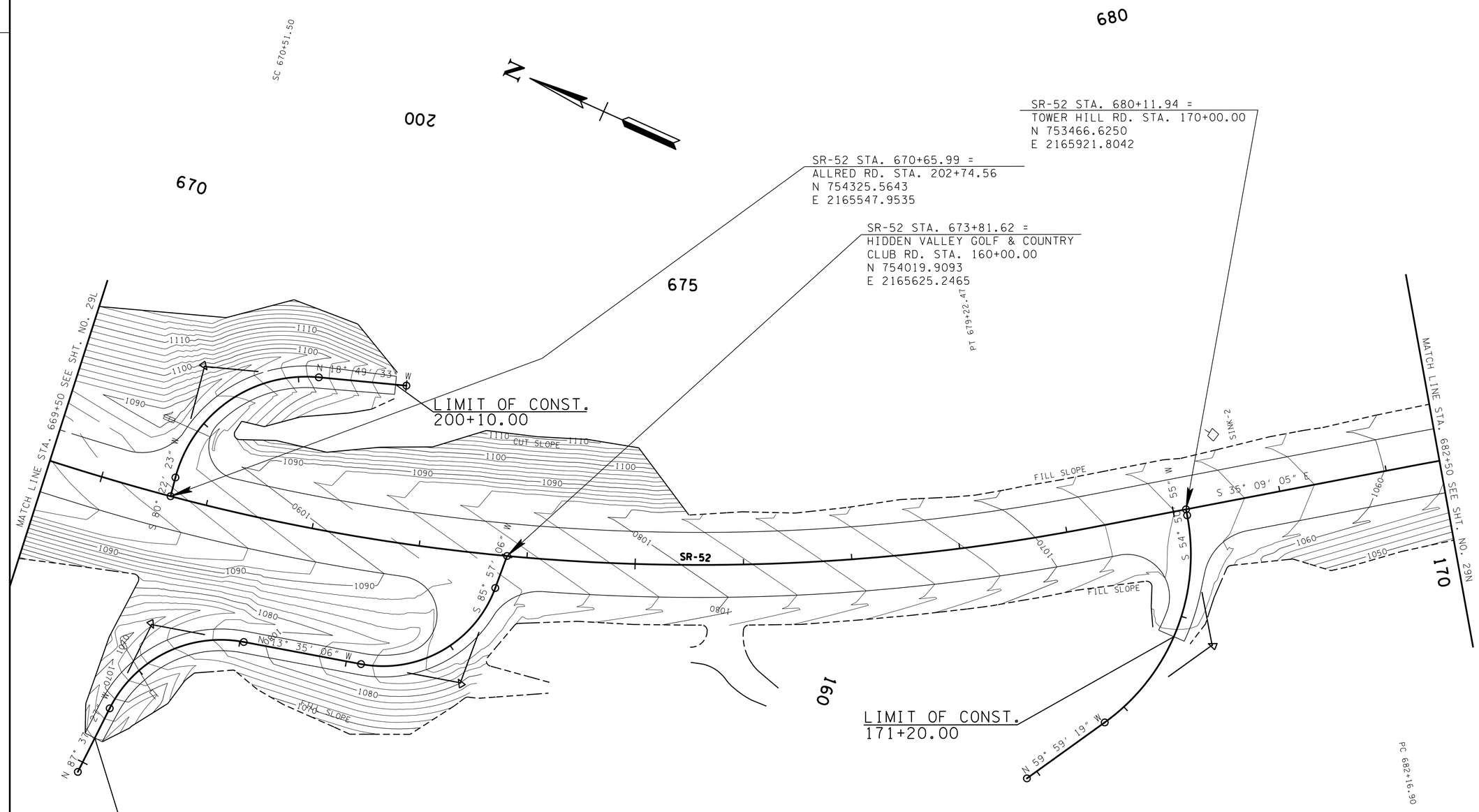
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28M
CONST.	2014	APD/NH-52(48)	29M

REV. 07-15-13: ADJUSTED SLOPE LINES AND CONTOURS PER ADDITION OF CROSS DRAIN HIDDEN VALLEY LN. STA. 164+00.00



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KATHERINE J. LLOYD
REGISTERED ENGINEER
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50'

22-JAN-2015 07:47
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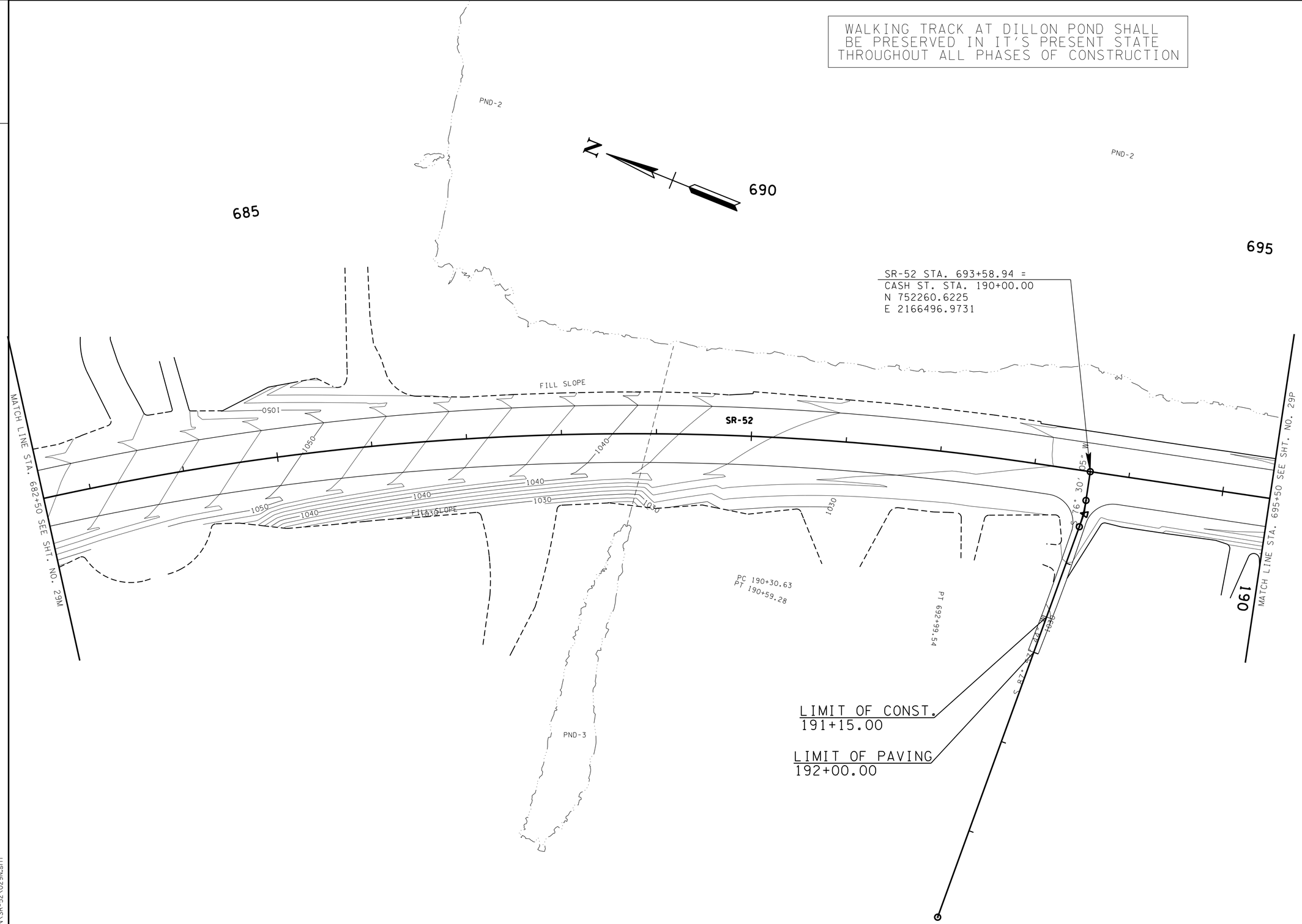
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28N
CONST.	2014	APD/NH-52(48)	29N

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50'

22-JAN-2015 07:47
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	28P
CONST.	2014	APD/NH-52(48)	29P

REV. 12-07-12: ADJUSTED SLOPE LINES OFF TRAIL

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

700

SR-111 STA. 217+94.30 =
SR52NCHURCH STA. 800+00.00
N 751204.9213
E 2166754.5121

STR-7
STR-7
STR-6
STR-6
WTL-13
WTL-13
220
1030
CUT SLOPE
FILL SLOPE
CUT SLOPE
1030
1030
1030
1040
1040
1030
FILL SLOPE
1030
CUT SLOPE

MATCH LINE STA. 695+50 SEE SHT. NO. 29N

S 13° 29′ 55″ E

POT 704+46.39
800
POT 800+00.00
POT 802+50.00
LIMIT OF CONST.
219+75.00
67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076
WTL-17
LIMIT OF PAVE
802+25.00
S 13° 18′ 40″ E

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127

215

SR-111 STA. 217+90.22 =
SR-52 STA. 704+46.39
N 751203.2127
E 2166750.8076

WTL-14
WTL-15
WTL-16
WTL-16
N 68° 00′ 56″ E
LIMIT OF CONST.
215+50.00

N

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA. 695+50 TO STA. 704+46

SCALE: 1"= 50'

22-JAN-2015 07:47
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	30

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 0.75 INCH AND NOT EXCEEDING 2 INCHES:

   a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET 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 2 INCHES AND NOT EXCEEDING 6 INCHES. 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) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, 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 LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET 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 THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, 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 LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET 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 2 MILES 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. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, 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 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES 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 SIX INCHES 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 WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET 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 MILE 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. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

   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 MILE 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 30 FEET 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 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

   WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET 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 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, 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 8 FEET 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 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET 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 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, 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.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

22-JAN-2015 07:47
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	30A

SIGN QUANTITIES

	DESCRIPTION	UNIT	QUANTITY	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
	END ROAD WORK	S.F.	25	112.5	36" x 18"	G20-2	
	ROAD CLOSED	S.F.	17	170	48" x 30"	R11-2	
	ROAD CLOSED AHEAD	S.F.	10	90	36" x 36"	W20-3	
	DETOUR AHEAD	S.F.	1	9	36" x 36"	W20-2	
	END DETOUR	S.F.	16	48	24" x 18"	M4-8A	
	DETOUR WITH ARROW - LEFT	S.F.	20	100	30" x 24"	M4-9L	
	DETOUR WITH ARROW - RIGHT	S.F.	17	85	30" x 24"	M4-9R	
	DETOUR WITH ARROW - STRAIGHT	S.F.	18	90	30" x 24"	M4-9 (MOD)	
	DETOUR ARROW - LEFT	S.F.	7	42	48" x 18"	M4-10L	
	DETOUR ARROW - RIGHT	S.F.	6	36	48" x 18"	M4-10R	
	NO LEFT TURN	S.F.	9	36	24" x 24"	R3-2	
	NO RIGHT TURN	S.F.	9	36	24" x 24"	R3-1	
	ROAD WORK NEXT 4 MILES	S.F.	2	9	36" x 18"	G20-1	
	ROAD WORK AHEAD	S.F.	24	216	36" x 36"	W20-1	
	ROAD WORK 1 MILE	S.F.	3	27	36" x 36"	W20-1	
	ROAD WORK 1/2 MILE	S.F.	3	27	36" x 36"	W20-1	
	ROAD WORK 1000 FT	S.F.	4	36	36" x 36"	W20-1	
	ROAD WORK 500 FT	S.F.	4	36	36" x 36"	W20-1	
	RIGHT SHOULDER CLOSED AHEAD	S.F.	4	36	36" x 36"	W21-5B	
	KEEP RIGHT - SYMBOL	S.F.	1	5	24" x 30"	R4-7	
	KEEP RIGHT ARROW - LEVEL	S.F.	1	5	24" x 30"	R4-7A	
	MANDATORY MOVEMENT ARROW - LT	S.F.	1	7.5	30" x 36"	R3-5L	
	WRONG WAY	S.F.	8	48	36" x 24"	R5-1A	
	ONE WAY	S.F.	2	6	36" x 12"	R6-1R	
	ONE WAY	S.F.	2	6	36" x 12"	R6-1L	
(1)	FLAGGER - SYMBOL	S.F.	4	36	36" x 36"	W20-7	
(1)	BE PREPARED TO STOP	S.F.	4	36	36" x 36"	W3-4	
	PRIMARY STATE ROUTE - 2 DIGITS	S.F.	2	10	30" x 24"	TN-6C	52
	EAST CEDAR LANE	S.F.	5	10	24" x 12"	D3-1	
	HOOVER CEMETERY ROAD	S.F.	5	10	24" x 12"	D3-1	
	TOM SMITH LANE	S.F.	7	14	24" x 12"	D3-1	
	FISK ROAD	S.F.	8	16	24" x 12"	D3-1	
	AIRPORT ROAD	S.F.	11	22	24" x 12"	D3-1	
	ELMER LANGFORD RD	S.F.	8	16	24" x 12"	D3-1	
	TOWER HILL ROAD	S.F.	12	24	24" x 12"	D3-1	
	OLD ALLONS RD	S.F.	6	12	24" x 12"	D3-1	
	HIDDEN VALLEY	S.F.	7	14	24" x 12"	D3-1	
	CASH STREET	S.F.	6	12	24" x 12"	D3-1	
	CASH STREET CLOSED AT S.R. 52	S.F.	1	12.5	60" x 30"	R11-4 (MOD)	
	HIDDEN VALLEY RD CLOSED AT S.R. 52	S.F.	5	62.5	60" x 30"	R11-4 (MOD)	
	TOWER HILL RD CLOSED AT S.R. 52	S.F.	5	62.5	60" x 30"	R11-4 (MOD)	
	ELMER LANGFORD RD CLOSED AT S.R. 52	S.F.	2	25	60" x 30"	R11-4 (MOD)	
	AIRPORT ROAD CLOSED AT S.R. 52	S.F.	3	37.5	60" x 30"	R11-4 (MOD)	
	FISK ROAD CLOSED AT S.R. 52	S.F.	2	25	60" x 30"	R11-4 (MOD)	
	TOM SMITH LN CLOSED AT S.R. 52	S.F.	1	12.5	60" x 30"	R11-4 (MOD)	
	EAST CEDAR LN CLOSED AT S.R. 52	S.F.	1	12.5	60" x 30"	R11-4 (MOD)	
	HOOVER CEM RD CLOSED AT S.R. 52	S.F.	1	12.5	60" x 30"	R11-4 (MOD)	
				1814			

(1) TO BE USED DURING CONSTRUCTION OF SAVAGE LN AND AS DIRECTED BY THE ENGINEER

TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	712-01	TRAFFIC CONTROL	LS	1
	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	15
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	8500
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	650
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	24
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	45
	712-06	SIGNS (CONSTRUCTION)	S.F.	1814
(1)	712-06.01	VERTICAL PANELS	S.F.	500
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	144
	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	2500
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	35
	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	11600
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	1000
	716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH	10
	716-05.09	PAINTED PAVEMENT MARKING(STRAIGHT-TURN ARROW)	EACH	4
	716-05.11	PAINTED PAVEMENT MARKING(STRAIGHT ARROW)	EACH	4

(1) FOR VERTICAL PANELS VP-1R = 250 SF AND VP-1R = 250 SF

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	TEMPORARY ATTENUATOR
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)
	TEMPORARY BARRICADE (TYPE III)
	FLAGGER
A	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
C	WARNING LIGHT (TYPE C) (STEADY)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106473
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

22-JAN-2015 07:48
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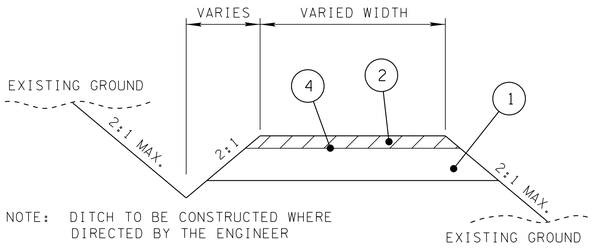
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	30B

CONSTRUCTION STAGING
STAGE 1: FROM STA. 674+00.00 TO 704+46.39 (BOTH SIDES)
STAGE 2: FROM STA. 578+00.00 TO STA. 674+00.00 (BOTH SIDES)
STAGE 3: FROM STA. 511+50.00 TO STA. 578+00.00 (BOTH SIDES)

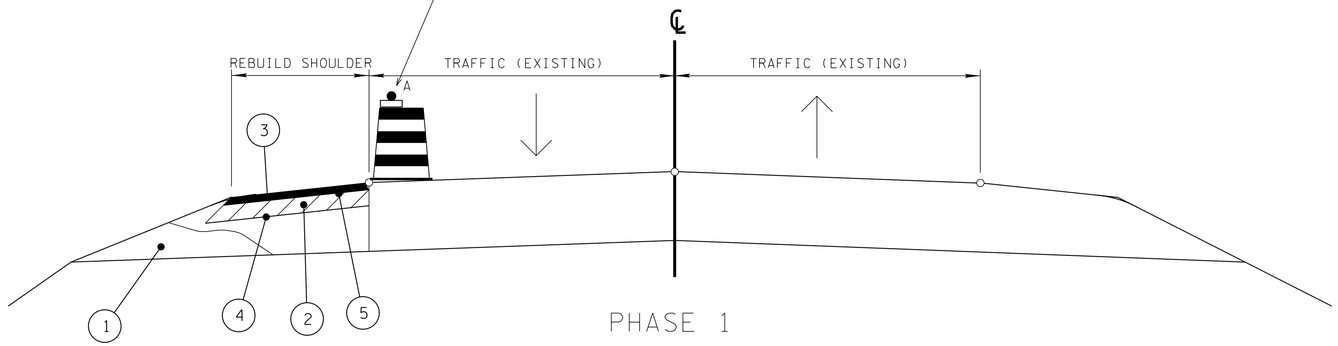


NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL PAVEMENT
TEMPORARY RUN-AROUND

PORTABLE BARRIER RAIL SHALL BE USED AS REQUIRED BY PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES SEE SHEET 30

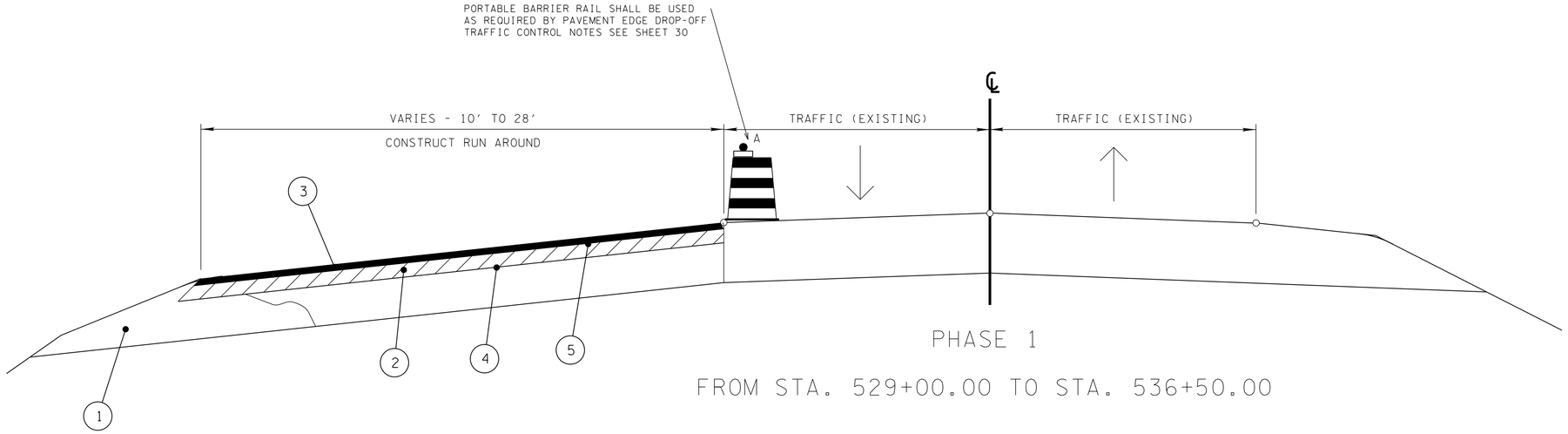
TRAFFIC CONTROL PHASING



PHASE 1

FROM STA. 511+50.00 TO STA. 529+00.00
FROM STA. 536+50.00 TO STA. 704+46.39

PORTABLE BARRIER RAIL SHALL BE USED AS REQUIRED BY PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES SEE SHEET 30



PHASE 1

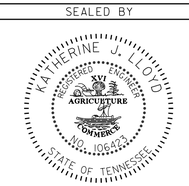
FROM STA. 529+00.00 TO STA. 536+50.00

PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE BASE @ 10.00"+ THICK 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"	(4) BITUMINOUS MATERIAL FOR PRIME COAT @ 0.30-0.35 GAL/SY 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) 402-02 ACCGREGATE FOR COVER MATERIAL (PC)
(2) BITUMINOUS BINDER @ 2.00"+ THICK (APPROX 226 LB/SY) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "BM-2"	(5) BITUMINOUS MATERIAL FOR TACK COAT @ 0.07 GAL/SY 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)
(3) BITUMINOUS SURFACE @ 1.25"+ THICK (APPROX 132.5 LBS/SY) 411-01.10 ACS MIX (PG64-22) GRADING "D"	(*)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

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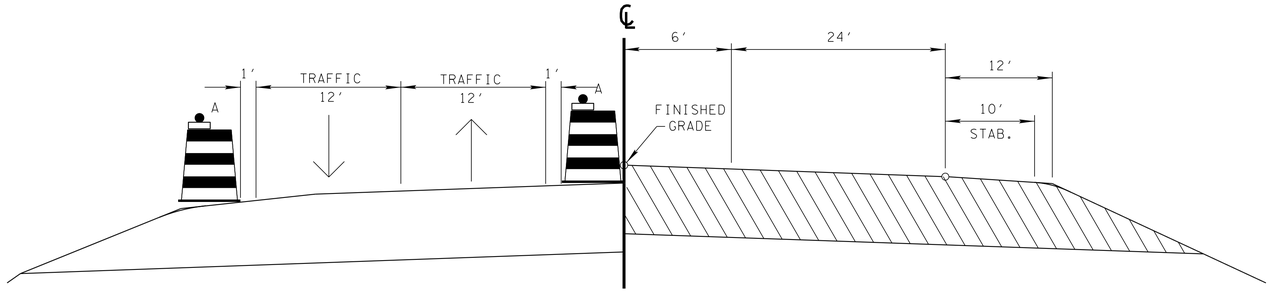
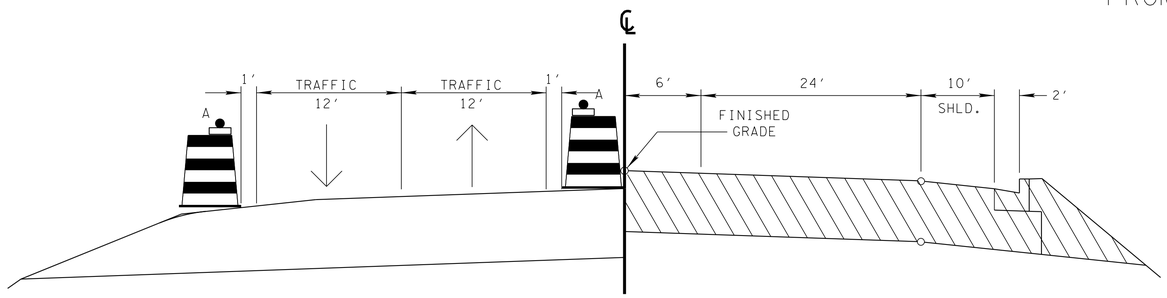
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	30C



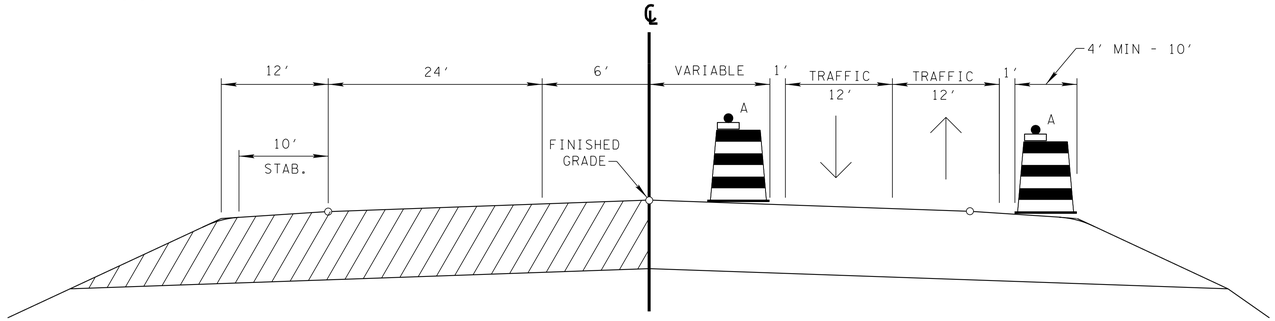
PHASE 2

FROM STA. 511+50.00 TO STA. 674+00.00



PHASE 2

FROM STA. 674+00.00 TO STA. 704+46.39



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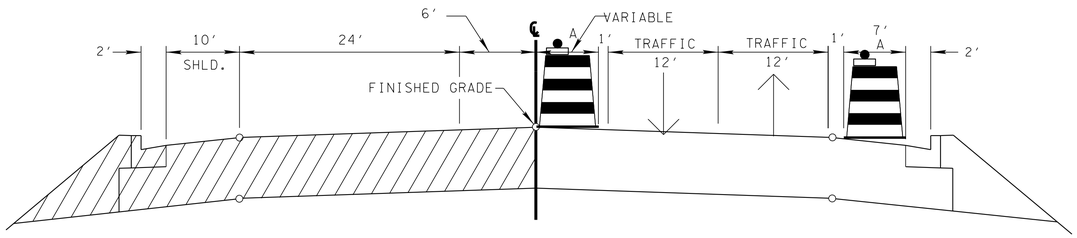
FROM STA. 511+50.00 TO STA. 674+00.00



PHASE 3

FROM STA. 674+00.00 TO STA. 704+46.39

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NO. 106472
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TRAFFIC CONTROL PLAN

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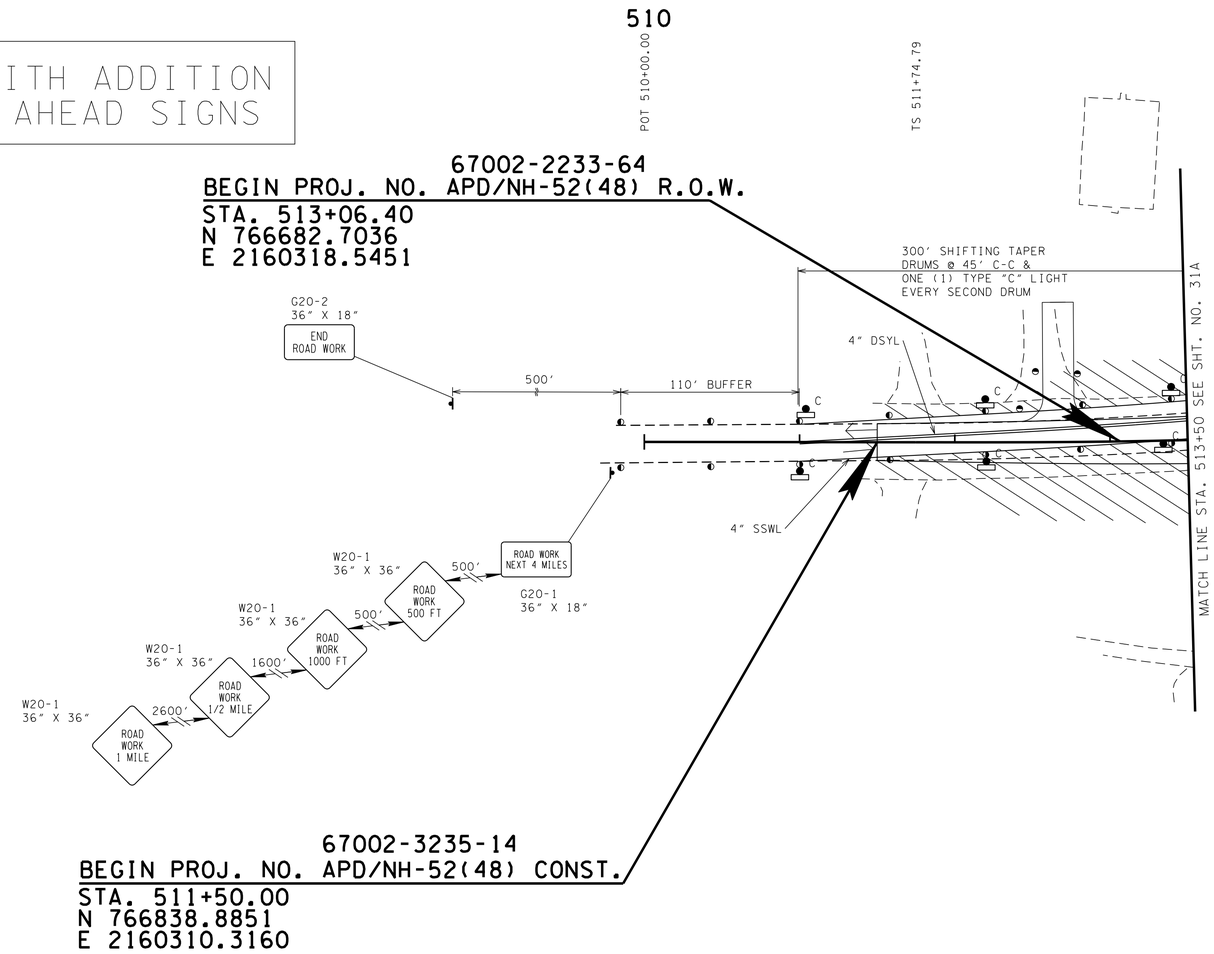
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31

N

SEE SHEET 30B FOR
PHASE 1 DETAILS

PHASE 1 SIGNING TYPICAL WITH ADDITION
OF RIGHT SHOULDER CLOSED AHEAD SIGNS



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TRAFFIC
CONTROL PLAN
PHASE 2
STA. 511+50 TO STA. 513+50
SCALE: 1"= 50'

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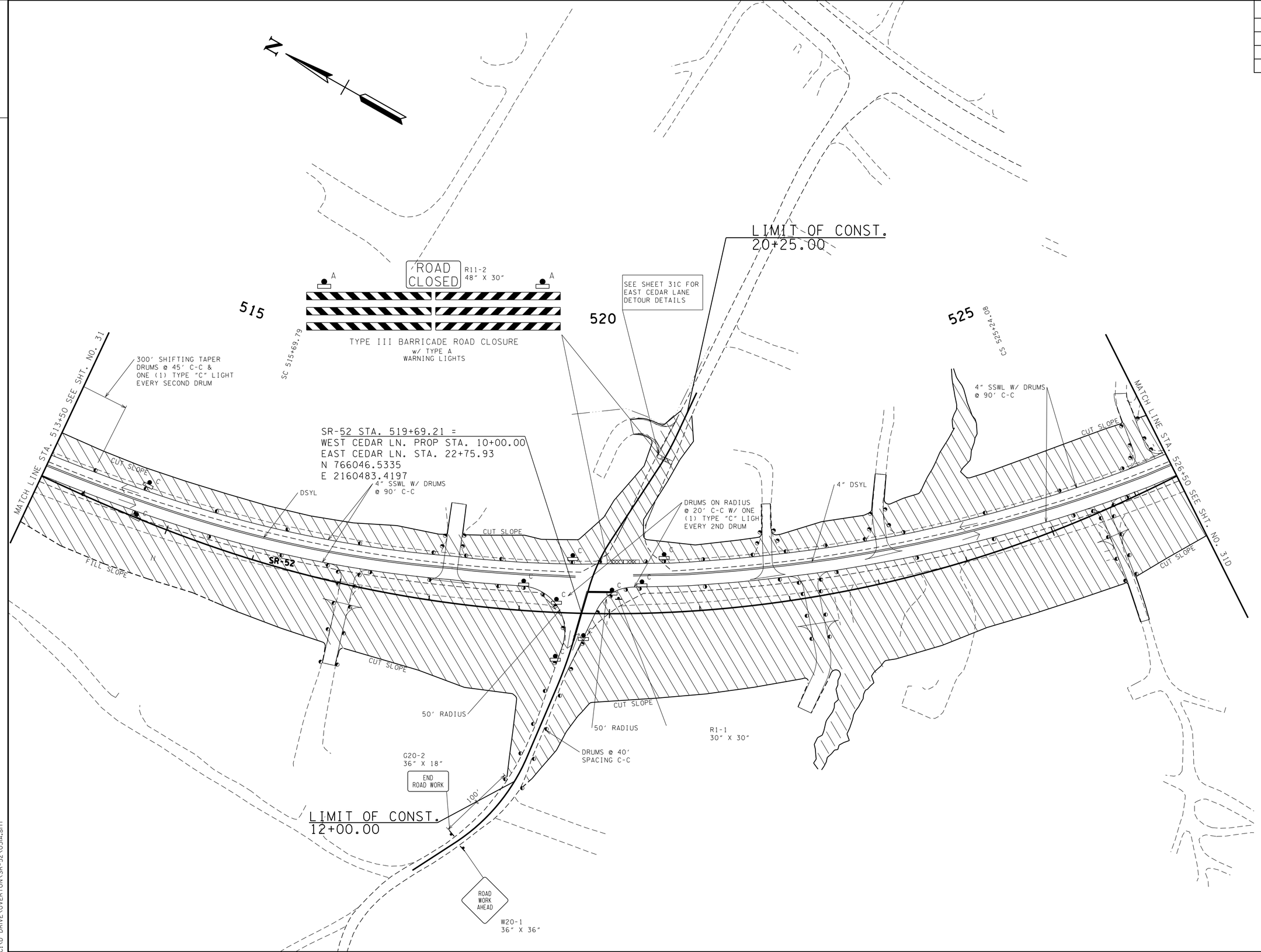
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31A



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COMMERCE
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TRAFFIC CONTROL PLAN PHASE 2

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31B

N

515

520

525

ROAD CLOSED
R11-2
48" X 30"

A

A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

SC 515+69.79

SEE SHEET 31C FOR
EAST CEDAR LANE
DETOUR DETAILS

LIMIT OF CONST.
20+25.00

CS 525+24.08

300' SHIFTING TAPER
DRUMS @ 45' C-C &
ONE (1) TYPE "C" LIGHT
EVERY SECOND DRUM

MATCH LINE STA. 513+50 SEE SHT. NO. 31

CUT SLOPE

C

SR-52

FILL SLOPE

DSYL

4" SSWL W/ DRUMS
@ 90' C-C

SR-52 STA. 519+69.21 =
WEST CEDAR LN. PROP STA. 10+00.00
EAST CEDAR LN. STA. 22+75.93
N 766046.5335
E 2160483.4197

DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM

4" DSYL

4" SSWL W/ DRUMS
@ 90' C-C

MATCH LINE STA. 526+50 SEE SHT. NO. 31D

POT 0+00.00

50' RADIUS

DRUMS @
40' C-C

SR-52 STA. 519+59.64 =
RUN-AROUND STA. 0+00.00
WEST CEDAR LANE
N 766054.9912
E 2160478.9378

PC 1+74.65
PT 2+36.71

G20-2
36" X 18"

END
ROAD WORK

100'

S 70° 22' 15" W

BARRIER RAIL
W/ 8" SSWL

PC 1+46.89
PT 1+69.79

STOP
R1-1
30" X 30"

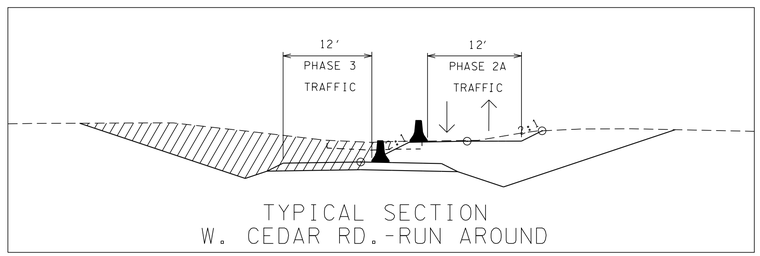
LIMIT OF CONST.
12+00.00

ROAD
WORK
AHEAD

W20-1
36" X 36"

W. CED RUN AROUND	
PI	0+78.40
N	766,033.7670
E	2,160,321.9810
Δ	11° 55' 42" (RT)
D	52° 05' 13"
R	110.00
L	22.90
T	11.49
SE	-.--- FT/FT
DESIGN SPEED	20 MPH
TRANS. LENGTH	---

W. CED RUN AROUND	
PI	0+31.88
N	766,017.5654
E	2,160,276.5553
Δ	32° 19' 16" (LT)
D	52° 05' 13"
R	110.00
L	62.05
T	31.88
SE	-.--- FT/FT
DESIGN SPEED	20 MPH
TRANS. LENGTH	---



TYPICAL SECTION
W. CEDAR RD.-RUN AROUND

UNOFFICIAL SET

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REGISTERED ENGINEER
No. 109435
STATE OF TENNESSEE

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TRAFFIC CONTROL PLAN PHASE 2A

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31C

W20-3
36" X 36"
ROAD CLOSED AHEAD

ROAD CLOSED R11-2 48" X 30"

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

East Cedar Lane D3-1 24" X 12"
DETOUR M4-9L 30" X 24"

East Cedar Lane D3-1 24" X 12"
EAST CEDAR LN. CLOSED AT S.R. 52 R11-4 (MOD) 60" X 30"

Hoover Cemetery Road D3-1 24" X 12"
DETOUR M4-9 (MOD) 30" X 24"

R3-1 24" X 24"

M4-8A 24" X 18"
END DETOUR

D3-1 24" X 12"
Hoover Cemetery Road
HOOVER CEM. RD. CLOSED AT S.R. 52 R11-4 (MOD) 60" X 30"

D3-1 24" X 12"
Hoover Cemetery Road
DETOUR M4-9R 30" X 24"

D3-1 24" X 12"
East Cedar Lane
DETOUR M4-9R 30" X 24"

M4-8A 24" X 18"
END DETOUR

R3-1 24" X 24"

R3-2 24" X/24"

DETOUR M4-10L 48" X 18"

East Cedar Lane D3-1 24" X 12"
Hoover Cemetery Road D3-1 24" X 12"
DETOUR M4-9L 30" X 24"

D3-1 24" X 12"
East Cedar Lane
DETOUR M4-9 (MOD) 30" X 24"

R3-2 24" X 24"

DETOUR M4-10R 48" X 18"

ROAD CLOSED R11-2 48" X 30"

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

515 520 525 530 535 540

EAST CEDAR LANE
HOOVER CEMETERY ROAD
SR-52

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COMMERCE
NO. 106423
STATE OF TENNESSEE

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TRAFFIC CONTROL PLAN PHASE 2

E. CEDAR & HOOVER CEM. DETOUR DETAILS

SCALE: 1"=100'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31D

LIMIT OF CONST.
40+50.00

G20-2
36" X 18"
END
ROAD WORK

500'

100'

ROAD
WORK
1000 FT

W20-1
36" X 36"

ROAD
WORK
500 FT

W20-1
36" X 36"

500'

ST 529+19.08

530

DRUMS @
50' C-C

SR-52 STA. 528+65.03 =
OLD SR-52 STA. 43+46.36
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM

ROAD
WORK
AHEAD

W20-1
36" X 36"

SEE SHEET 31C FOR
HOOVER CEMETERY ROAD
DETOUR DETAILS

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

2ND
ROAD WORK

G20-2
36" X 18"

TS 532+09.17

100'

535

ROAD
CLOSED

R11-2
48" X 30"

A

A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

SC 536+04.17
CS 536+45.06

4" SSWL W/ DRUMS
@ 90' C-C

4" DSYL

CUT SLOPE

FILL SLOPE

MATCH LINE STA. 526+50 SEE SHT. NO. 31A

MATCH LINE STA. 539+50 SEE SHT. NO. 31F

DSYL

CUT SLOPE

SR-52

CUT SLOPE

ONE WAY

R6-1L
36" X 12"

LIMIT OF CONST.
32+25.00

ONLY

R3-5L
30" X 36"

R3-1
24" X 24"

M4-8A
24" X 18"

END
DETOUR

R3-2
24" X 24"

STOP

R1-1
30" X 30"

END
ROAD WORK

G20-2
36" X 18"

M4-10R
48" X 18"

DETOUR

R11-2
48" X 30"

ROAD
CLOSED

DETOUR

M4-9L
30" X 24"

500'

SR-52 STA. 530+40.86 =
TOWER HILL RD. STA. 50+00.00
N 765350.0572
E 2161274.6023

ROAD
WORK
AHEAD

W20-1
36" X 36"

M4-9R
30" X 24"

DETOUR

100'

W20-2
36" X 36"

DETOUR
AHEAD

100'

ROAD
WORK
AHEAD

W20-1
36" X 36"

LIMIT OF CONST.
52+00.00

END
ROAD WORK

G20-2
36" X 18"

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TRAFFIC CONTROL PLAN PHASE 2

STA. 526+50 TO STA. 539+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31E

LIMIT OF CONST.
40+50.00

G20-2
36" X 18"
END
ROAD WORK

100'

SEE DETAIL A FOR TRANSITION

ST 529+19.08

530

DRUMS @
50' C-C

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

G20-2
36" X 18"
END
ROAD WORK

TS 532+09.17

100'

SR-52 STA. 528+65.03 =
OLD SR-52 STA. 43+46.36
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

ROAD
WORK
AHEAD
W20-1
36" X 36"

DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM

SEE SHEET 31C FOR
HOOVER CEMETERY ROAD
DETOUR DETAILS

535

ROAD
CLOSED
R11-2
48" X 30"

A A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

SC 536+04.17
CS 536+45.06

4" SSWL W/ DRUMS
@ 90' C-C

4" DSYL

DSYL

CUT SLOPE

FILL SLOPE

MATCH LINE STA. 526+50 SEE SHT. NO. 31A

MATCH LINE STA. 539+50 SEE SHT. NO. 31F

SR-52

ONE WAY
R6-1L
36" X 12"

STOP
R1-1
30" X 30"

M4-8A
24" X 18"

END
DETOUR

R3-2
24" X 24"

ONLY

R3-5L
30" X 36"

R3-1
24" X 24"

LIMIT OF CONST.
32+25.00

END
ROAD WORK
G20-2
36" X 18"

M4-10R
48" X 18"

DETOUR

ROAD
CLOSED
R11-2
48" X 30"

M4-9L
30" X 24"

DETOUR

500'

SR-52 STA. 530+40.86 =
TOWER HILL RD. STA. 50+00.00
N 765350.0572
E 2161274.6023

ROAD
WORK
AHEAD
W20-1
36" X 36"

M4-9R
30" X 24"

DETOUR

100'

W20-2
36" X 36"

DETOUR
AHEAD

100'

ROAD
WORK
AHEAD
W20-1
36" X 36"

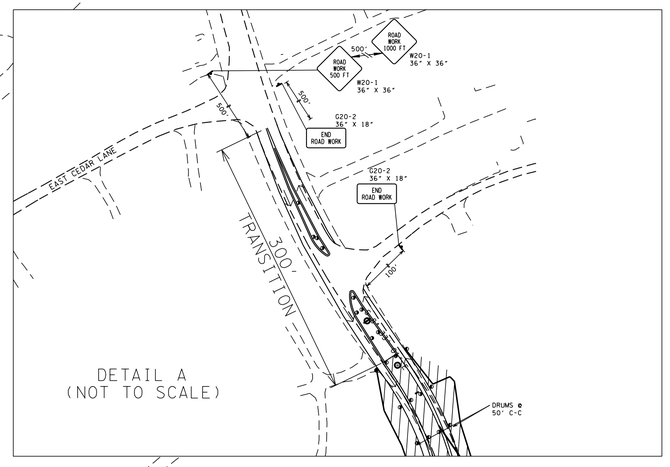
LIMIT OF CONST.
52+00.00

END
ROAD WORK
G20-2
36" X 18"

500'

100'

DETAIL A
(NOT TO SCALE)



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TRAFFIC CONTROL PLAN PHASE 2A

STA. 526+50 TO STA. 539+50

SCALE: 1"= 50'

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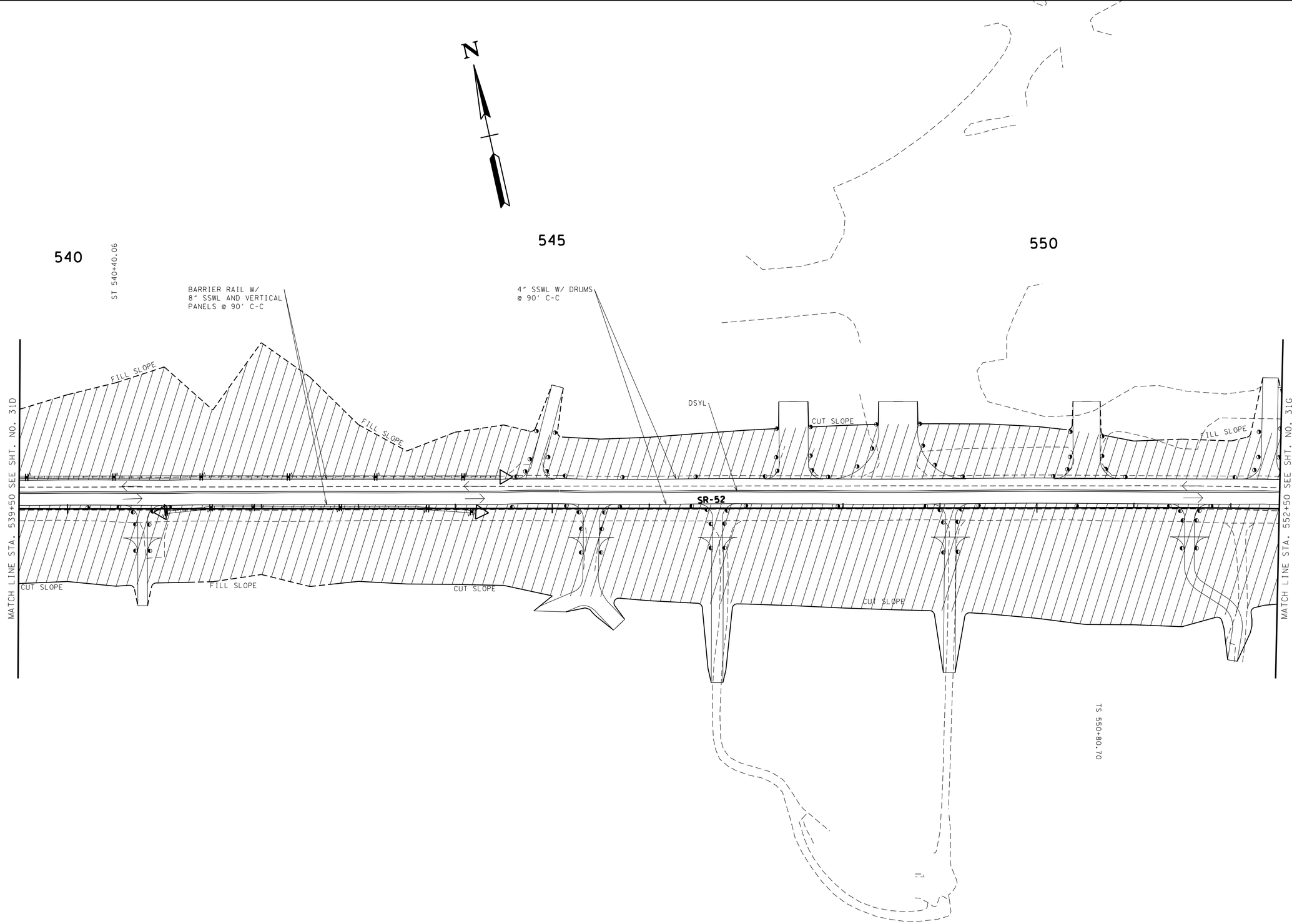
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31F



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NO. 106423
STATE OF TENNESSEE

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TRAFFIC CONTROL PLAN PHASE 2

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

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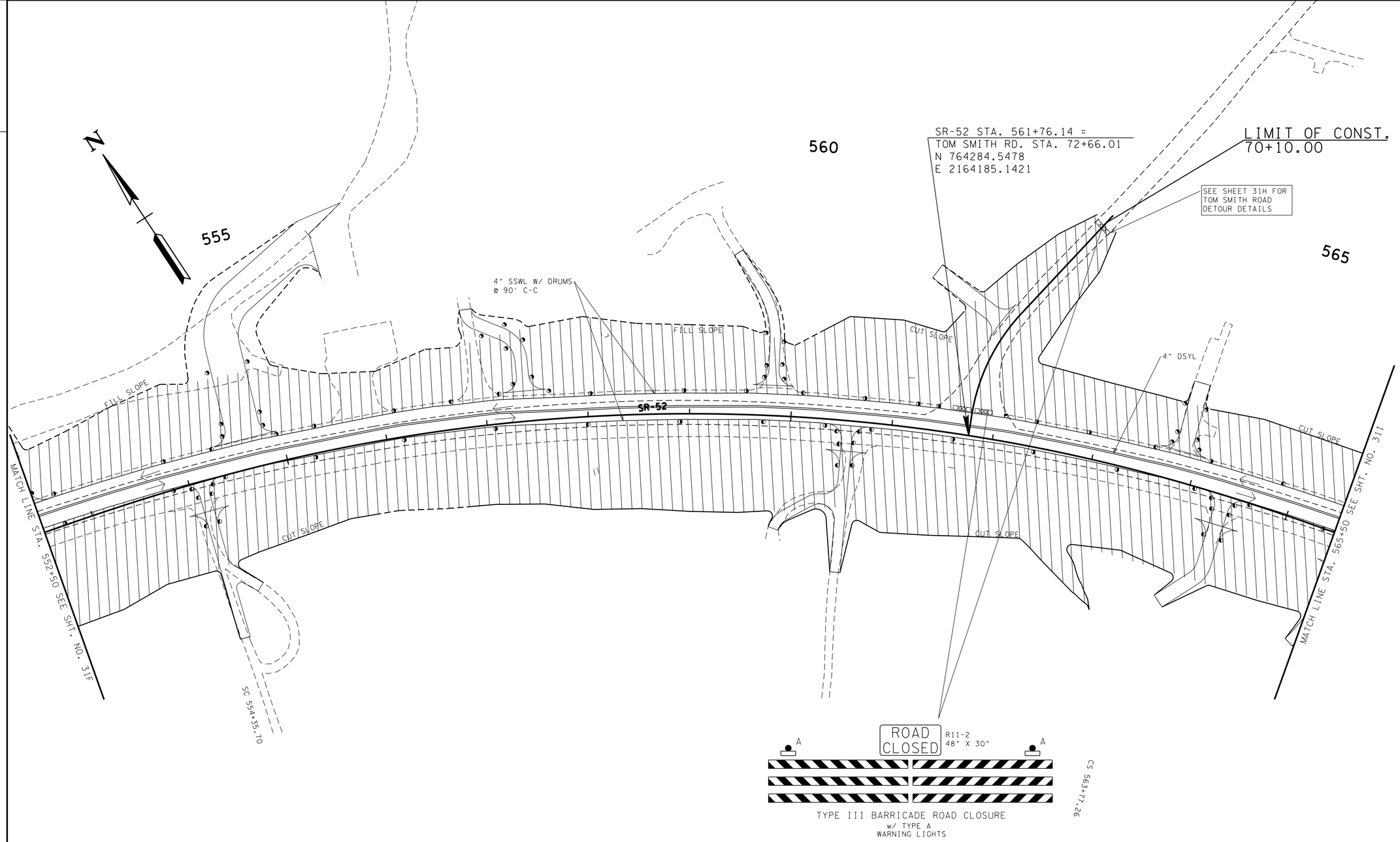
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31G



TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

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TRAFFIC CONTROL PLAN PHASE 2

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50'

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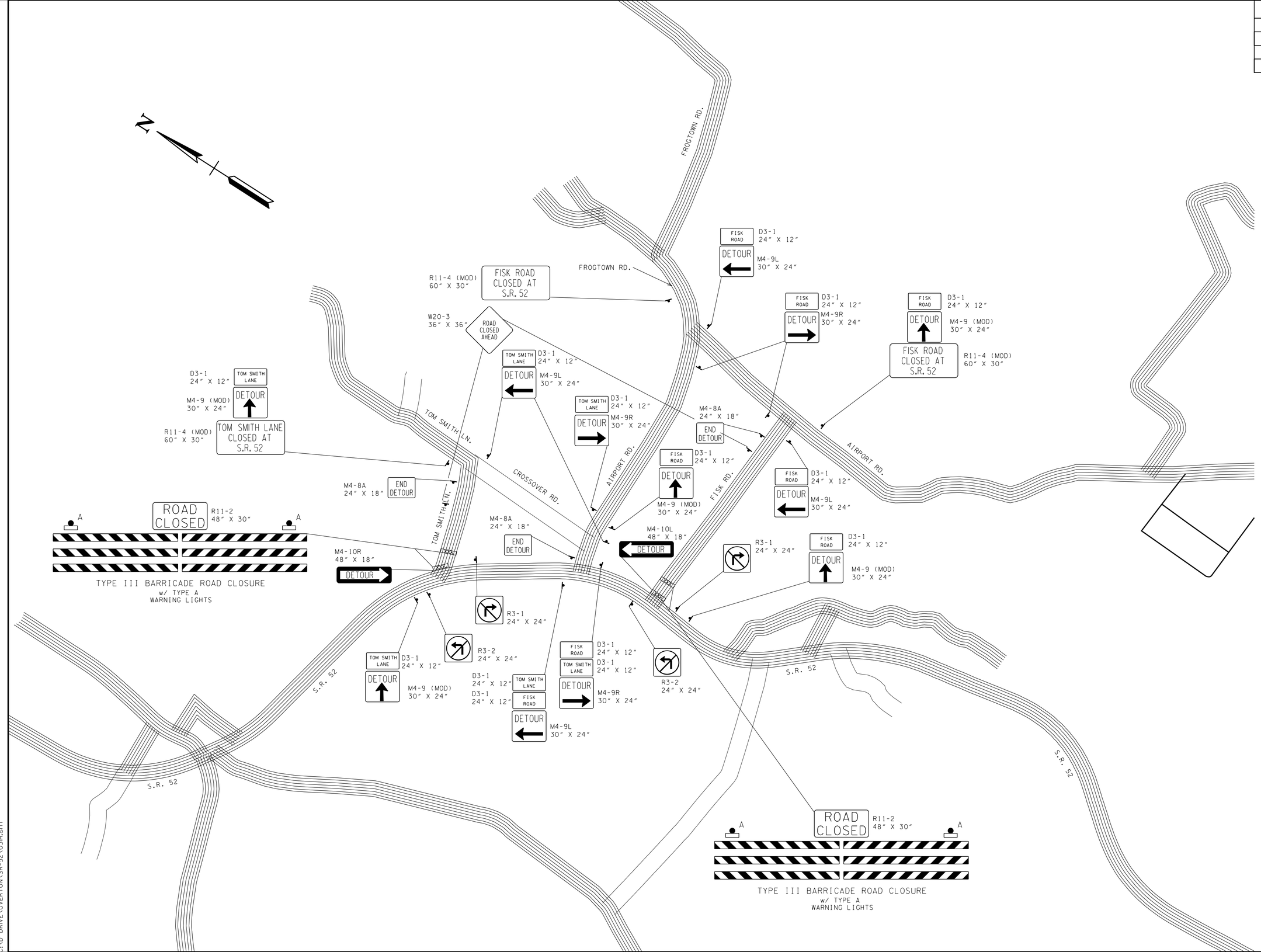
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31H



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TRAFFIC CONTROL PLAN PHASE 2

TOM SMITH LN. & FISK RD.
DETOR DETAILS
SCALE: 1"=500'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31I

LIMIT OF WORK
81+00.00
LIMIT OF CONST.
81+20.00

575

570

ROAD WORK AHEAD
W20-1
36" X 36"

G20-2
36" X 18"
END ROAD WORK

DRUMS @ 50' C-C

500'

4" SSWL W/ DRUMS @ 90' C-C

DRUMS ON RADIUS @ 20' C-C W/ ONE (1) TYPE "C" LIGHT EVERY 2ND DRUM

4" DSYL

CUT SLOPE

FILL SLOPE

CUT SLOPE

SR-52

CUT SLOPE

CUT SLOPE

CUT SLOPE

MATCH LINE STA. 565+50 SEE SHT. NO. 31G

MATCH LINE STA. 578+50 SEE SHT. NO. 31J

ST 567+32.26

TS 572+22.17

SC 576+02.17

SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786

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STATE OF TENNESSEE

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TRAFFIC CONTROL PLAN PHASE 2

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

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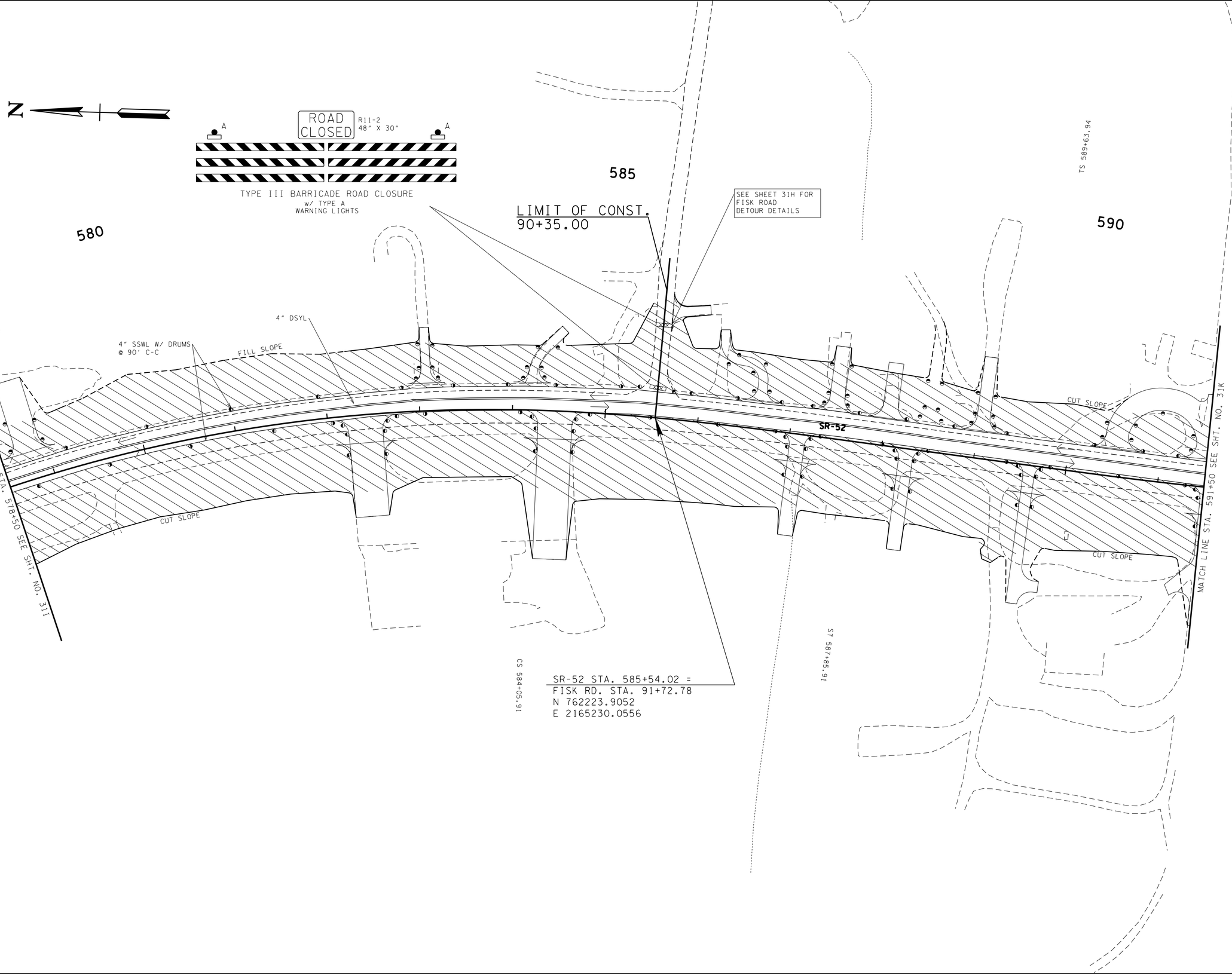
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2012	APD/NH-52(48)	31J



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50'

22-JAN-2015 07:49
C:\D DRIVE\OVERTON\SR-52\03IJ.sht

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31K

N

W20-1
36" X 36"
ROAD WORK AHEAD

G20-2
36" X 18"
END ROAD WORK

LIMIT OF CONST.
21+50.00

100'

SC 593+58.94

595

OLD ALLONS RD. STA. 101+32.57 =
SAVAGE LN. STA. 23+37.20
N 761001.6483
E 2165440.0812

CUT SLOPE

CUT SLOPE

W20-1
36" X 36"
ROAD WORK AHEAD

100'

600

CS 599+80.93

LIMIT OF CONST.
100+50.00
LIMIT OF WORK
100+35.00

ST 603+15.93

END ROAD WORK

G20-2
36" X 18"

4" DSYL

CUT SLOPE

MATCH LINE STA. 591+50 SEE SHT. NO. 31J

4" SSWL W/ DRUMS
@ 90' C-C

CUT SLOPE

CUT SLOPE

MATCH LINE STA. 604+50 SEE SHT. NO. 31M

CUT SLOPE

SR-52

FILL SLOPE

FILL SLOPE

CUT SLOPE

CUT SLOPE

DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM

SR-52 STA. 596+86.45 =
OLD ALLONS RD. STA. 103+94.06
N 761100.5066
E 2165227.1253

LIMIT OF CONST.
111+50.00

SR-52 STA. 599+08.30 =
ELMER LANGFORD RD. STA. 110+00.00
N 760895.9318
E 2165312.2147

A

ROAD CLOSED

R11-2
48" X 30"

A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

SEE SHEET 31L FOR
ELMER LANGFORD ROAD
DETOUR DETAILS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 108425
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31L

S.R. 52

S.R. 52

S.R. 52

S.R. 52

TOWER HILL RD.

TOWER HILL RD.

ELMER LANGFORD RD.

ELMER LANGFORD RD.

ELMER LANGFORD RD.
DETOUR
M4-9L
30" X 24"

END DETOUR
M4-8A
24" X 18"

ELMER LANGFORD RD.
DETOUR
D3-1
24" X 12"
M4-9R
30" X 24"

ELMER LANGFORD RD.
DETOUR
D3-1
24" X 12"
M4-9 (MOD)
30" X 24"

R3-2
24" X 24"

ELMER LANGFORD RD.
DETOUR
D3-1
24" X 12"
M4-9 (MOD)
30" X 24"

R3-1
24" X 24"

DETOUR
M4-10R
48" X 18"

ROAD CLOSED
R11-2
48" X 30"

A

A

ROAD CLOSED AHEAD
W20-3
36" X 36"

END DETOUR
M4-8A
24" X 18"

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

ELMER LANGFORD RD.
DETOUR
D3-1
24" X 12"
M4-9 (MOD)
30" X 24"

ELMER LANGFORD RD. CLOSED AT S.R. 52
R11-4 (MOD)
60" X 30"

ELMER LANGFORD RD.
DETOUR
D3-1
24" X 12"
M4-9R
30" X 24"

ELMER LANGFORD RD.
DETOUR
D3-1
24" X 12"
M4-9 (MOD)
30" X 24"

ELMER LANGFORD RD. CLOSED AT S.R. 52
R11-4 (MOD)
60" X 30"

ELMER LANGFORD RD.
DETOUR
D3-1
24" X 12"
M4-9L
30" X 24"

ELMER LANGFORD RD.
DETOUR
D3-1
24" X 12"
M4-9R
30" X 24"

END DETOUR
M4-8A
24" X 18"

N

UNOFFICIAL SET

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KATHERINE J. LLOYD
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COMMERCE
NO. 109473
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

ELMER LANGFORD RD.
DETOUR DETAILS

SCALE: 1"=600'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31M

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

LIMIT OF CONST.
120+50.00

610

615

605

BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 90' C-C

SEE SHEET 31N FOR
OLD ALLONS ROAD
DETOUR DETAILS

4" SSWL W/ DRUMS
@ 90' C-C

4" DSYL

FILL SLOPE

FILL SLOPE

FILL SLOPE

CUT SLOPE

CUT SLOPE

CUT SLOPE

SR-52

MATCH LINE STA. 604+50 SEE SHT. NO. 31K

MATCH LINE STA. 617+50 SEE SHT. NO. 31P

SR-52 STA. 608+00.77 =
OLD ALLONS RD. STA. 122+66.10
N 760188.0900
E 2165853.3676

TS 605+80.77

SC 609+05.77

CS 616+40.90

N

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UNOFFICIAL SET

NOT FOR BIDDING

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

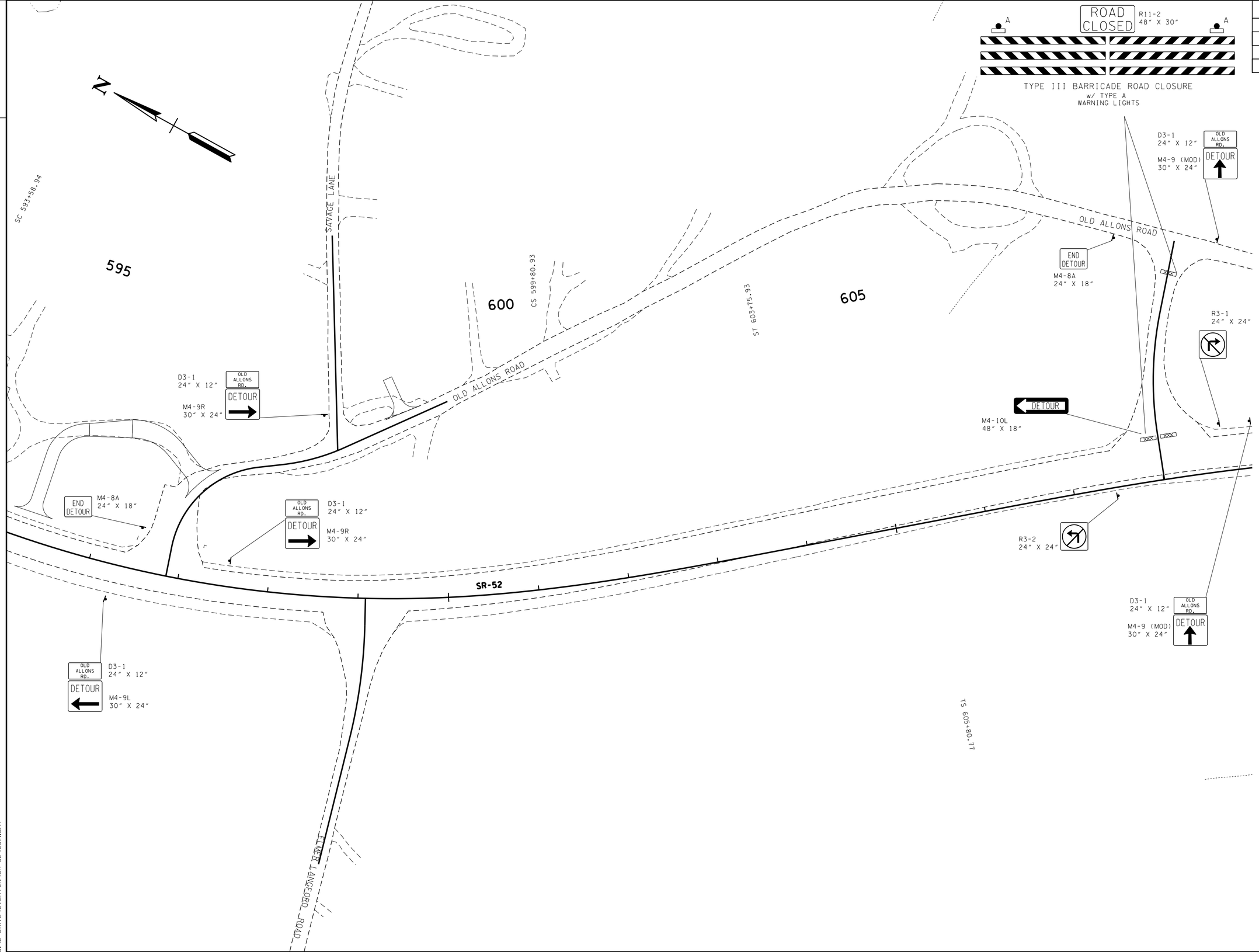
STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31N

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS



UNOFFICIAL SET
NOT FOR BIDDING

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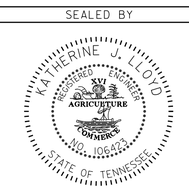

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

OLD ALLONS RD.
DETOUR DETAILS
SCALE: 1"= 50'

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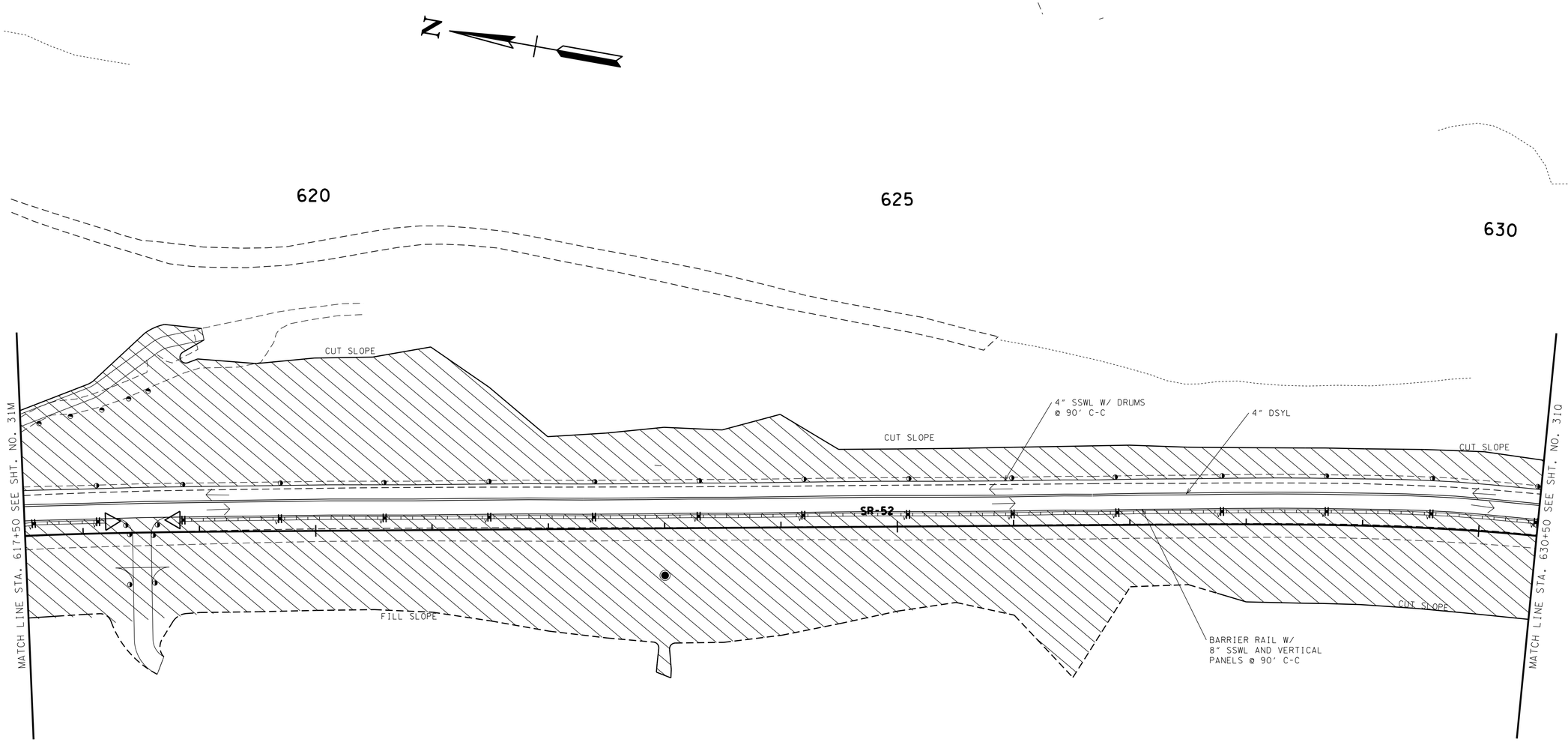
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31P



UNOFFICIAL SET
NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2012	APD/NH-52(48)	310

END ROAD WORK
G20-2
36" X 18"
250'
ROAD WORK AHEAD
W20-1
36" X 36"
LIMIT OF CONST.
142+50.00
635
640
SR-52 STA. 639+25.00 =
FAIRVIEW LN. STA. 147+31.84
N 757216.4583
E 2166290.9817
BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 40' C-C
DRUMS @ 40' C-C
CUT SLOPE
DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM
BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 90' C-C
4" DSYL
FILL SLOPE
CUT SLOPE
SR-52 STA. 641+23.96 =
ROE LN. STA. 150+00.00
N 757050.9256
E 2166180.7718
N
4" SSWL W/ DRUMS
@ 90' C-C
CUT SLOPE
MATCH LINE STA. 643+50 SEE SHT. NO. 315
MATCH LINE STA. 630+50 SEE SHT. NO. 310
FILL SLOPE
FILL SLOPE
BARRELS @ 30' C-C
100'
END ROAD WORK
G20-2
36" X 18"
STOP
R1-1
30" X 30"
4" SSWL W/ DRUMS
@ 90' C-C
FILL SLOPE
ROAD WORK AHEAD
W20-1
36" X 36"
LIMIT OF WORK
153+70.00
SC 631+00.74
CS 639+30.13
DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM
BARRIER RAIL W/
VERTICAL PANELS
@ 60' C-C
ST 643+25.13
LIMIT OF CONST.
153+00.00

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XV
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FARMER
NO. 108423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

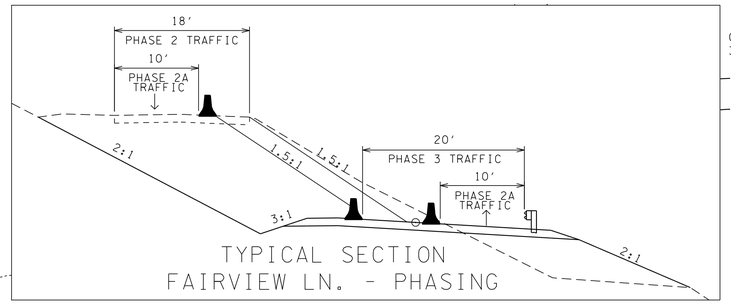
TRAFFIC CONTROL PLAN PHASE 2

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2012	APD/NH-52(48)	31R



TYPICAL SECTION
FAIRVIEW LN. - PHASING

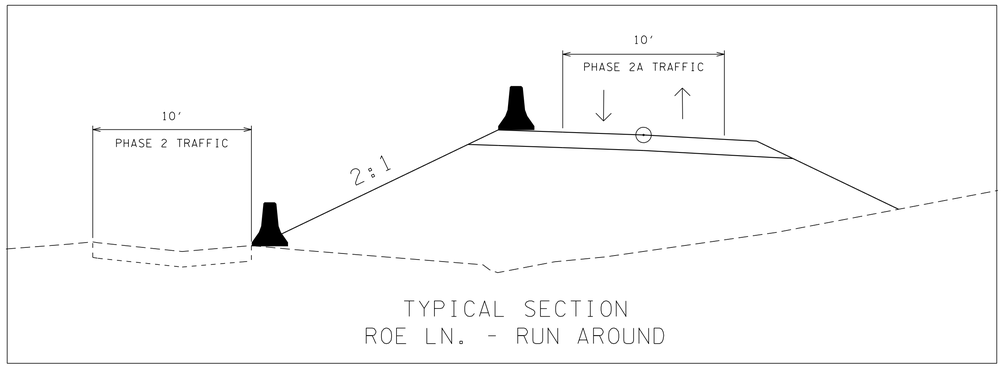
END ROAD WORK
G20-2
36" X 18"
250'
LIMIT OF CONST.
142+50.00
ROAD WORK AHEAD
W20-1
36" X 36"
R4-7
24" X 30"
KEEP RIGHT
R4-7A
24" X 30"
WRONG WAY
R5-1A
36" X 24"
ONE WAY
R6-1R
36" X 12"
640

SR-52 STA. 639+25.00 =
FAIRVIEW LN. STA. 147+31.84
N 757216.4583
E 2166290.9817

BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 40' C-C
DRUMS @ 40' C-C
R1-1
30" X 30"
STOP
CUT SLOPE
ONE WAY
R6-1L
36" X 12"
DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM
R5-1
30" X 30"
DO NOT ENTER
BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 90' C-C
4" DSYL
FILL SLOPE
CUT SLOPE
SR-52
SR-52 STA. 641+23.96 =
ROE LN. STA. 150+00.00
N 757050.9256
E 2166180.7718
4" SSWL W/ DRUMS
@ 90' C-C
MATCH LINE STA. 630+50 SEE SHT. NO. 31P
FILL SLOPE
FILL SLOPE
MATCH LINE STA. 643+50 SEE SHT. NO. 31S
BARRELS @ 30' C-C
100'
45'
END ROAD WORK
G20-2
36" X 18"
ROAD WORK AHEAD
W20-1
36" X 36"
LIMIT OF WORK
153+70.00
BARRIER RAIL W/
VERTICAL PANELS
@ 30' C-C
CS 639+30.13
PC 152+33.56
PT 152+71.10
PC 152+71.31
PT 153+17.20
POT 153+90.15
ST 643+25.13
STOP
R1-1
30" X 30"
4" SSWL W/ DRUMS
@ 90' C-C
PT 150+74.45
PC 150+00.75
POT 150+00.00
150
DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM

ROE LN. RUN AROUND	ROE LN. RUN AROUND	ROE LN. RUN AROUND
PI 150+39.57	PI 152+52.51	PI 152+94.59
N 757,081.8249	N 757,297.5964	N 757,338.8280
E 2,166,156.0606	E 2,166,177.9879	E 2,166,167.8957
Δ 44° 27' 11" (RT)	Δ 19° 33' 23" (LT)	Δ 23° 53' 53" (RT)
D 60° 18' 41"	D 52° 05' 13"	D 52° 05' 13"
R 95.00	R 110.00	R 110.00
L 73.71	L 37.55	L 45.88
T 38.82	T 18.96	T 23.28
SE -.--- FT/FT	SE -.--- FT/FT	SE -.--- FT/FT
DESIGN SPEED 20 MPH	DESIGN SPEED 20 MPH	DESIGN SPEED 20 MPH
TRANS. LENGTH ---	TRANS. LENGTH ---	TRANS. LENGTH ---

LIMIT OF CONST.
153+00.00



TYPICAL SECTION
ROE LN. - RUN AROUND

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OMMERCE
NO. 108423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2A

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50'

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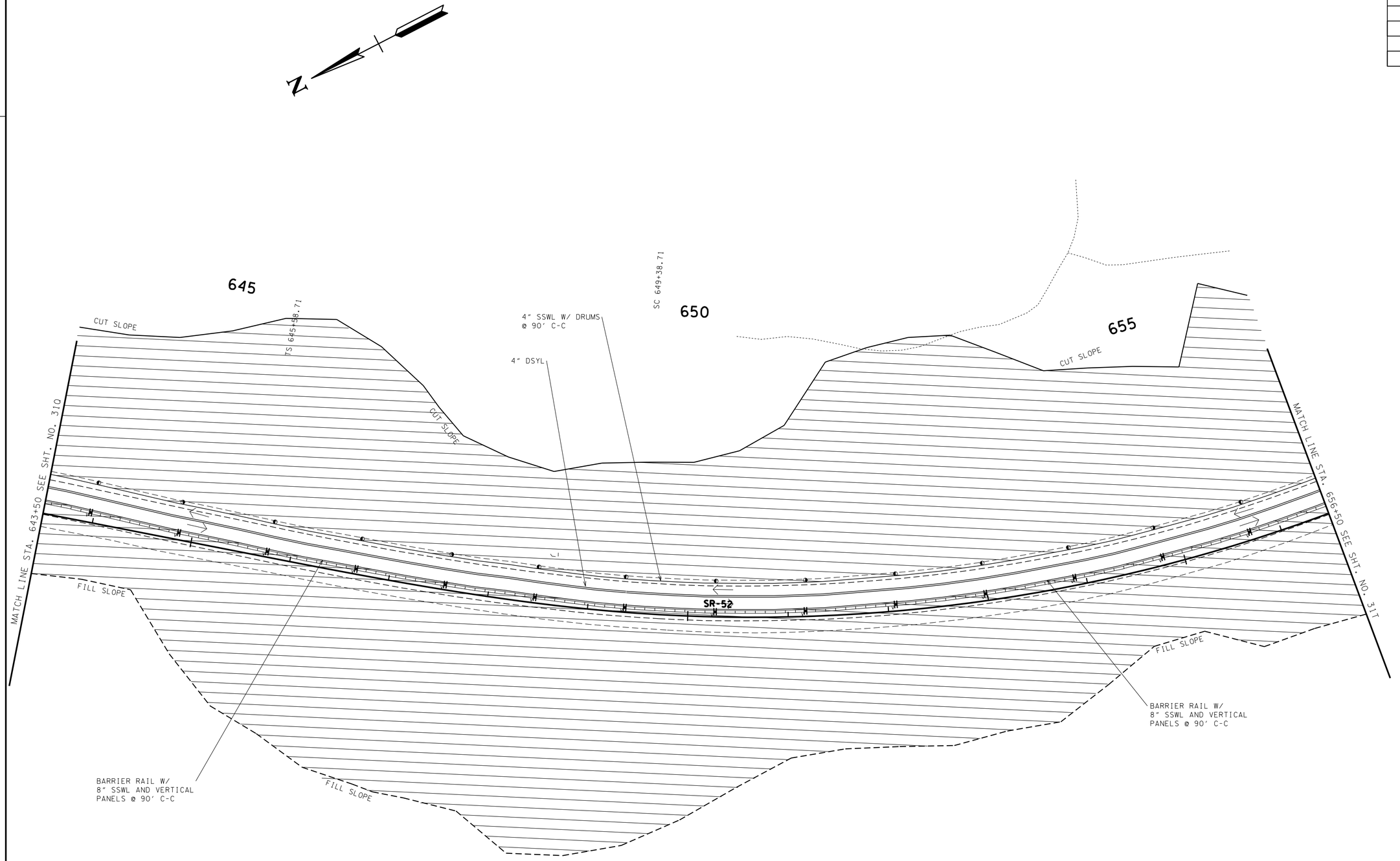
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31S



UNOFFICIAL SET

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KATHERINE J. LLOYD
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NO. 106422
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50'

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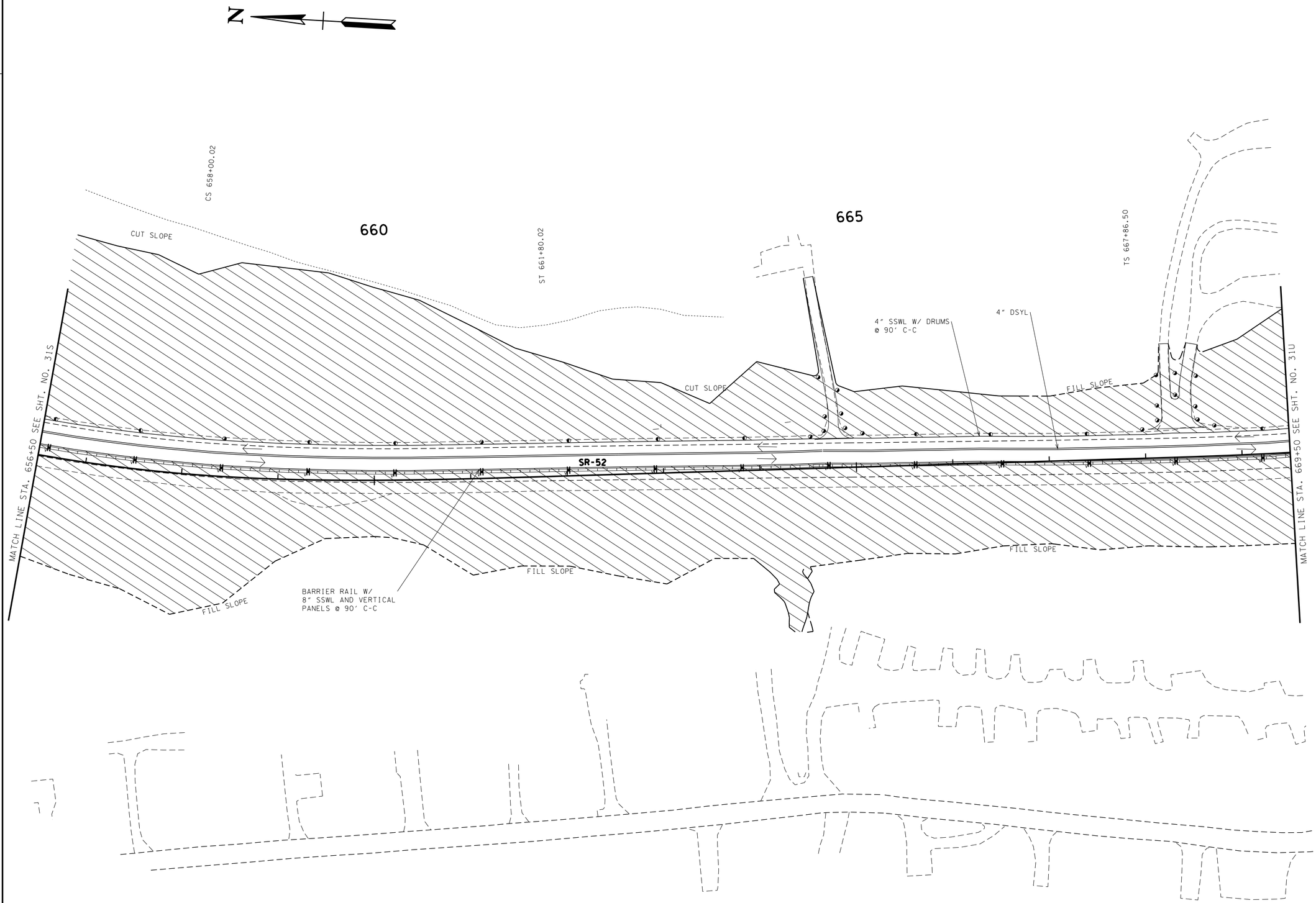
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31T



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NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

STA. 656+50 TO STA. 669+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31U

N

670

675

680

SC 670+51.50

SR-52 STA. 670+65.99 =
ALLRED RD. STA. 202+74.56
N 754325.5643
E 2165547.9535

SR-52 STA. 673+81.62 =
HIDDEN VALLEY GOLF & COUNTRY
CLUB RD. STA. 160+00.00
N 754019.9093
E 2165625.2465

SR-52 STA. 680+11.94 =
TOWER HILL RD. STA. 170+00.00
N 753466.6250
E 2165921.8042

PT 1679+22.47

MATCH LINE STA. 669+50 SEE SHT. NO. 31T

MATCH LINE STA. 682+50 SEE SHT. NO. 31X

G20-2
36" X 18"
END
ROAD WORK

W20-1
36" X 36"
ROAD
WORK
AHEAD

100'

LIMIT OF CONST.
200+10.00

CUT SLOPE

30" ST

18" ST

4" DSYL

4" SSWL W/ DRUMS
@ 90' C-C

DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM

SR-52

FILL SLOPE

STOP
R1-1
30" X 30"

ACCESS TO PVT. DR.
TO BE MAINTAINED
WHILE ROAD IS CLOSED

LIMIT OF CONST.
171+20.00

PC 682+16.90

ROAD
CLOSED
R11-2
48" X 30"

A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

SEE SHEET 31W FOR
HIDDEN VALLEY GOLF
AND COUNTRY CLUB ROAD
DETOUR DETAILS

LIMIT OF CONST.
164+75.00

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UNOFFICIAL SET

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KATHERINE J. LLOYD
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XVI
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OWNERS
NO. 108143
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

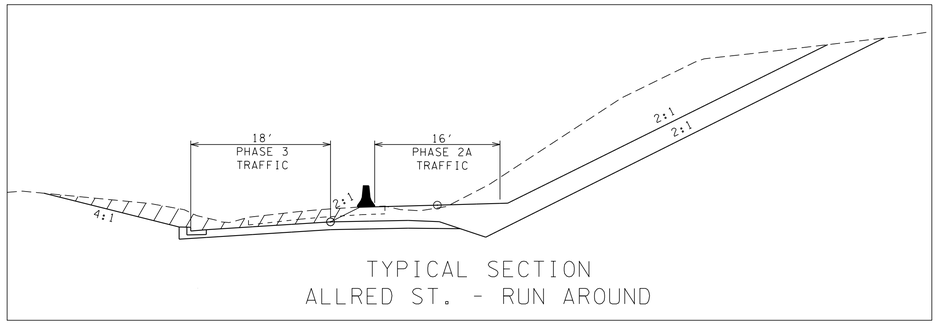
TRAFFIC CONTROL PLAN PHASE 2

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31V



TYPICAL SECTION
ALLRED ST. - RUN AROUND

ALLRED ST. RUN AROUND
PI 200+10.00
N 754,178.6064
E 2,165,727.1596
Δ 15° 38' 32" (RT)
D 143° 14' 22"
R 40.00
L 10.92
T 5.49
SE -.--- FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH ---

ALLRED ST. RUN AROUND
PI 200+51.47
N 754,220.0807
E 2,165,724.8529
Δ 14° 28' 12" (LT)
D 143° 14' 22"
R 40.00
L 10.10
T 5.08
SE -.--- FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH ---

ALLRED ST. RUN AROUND
PI 201+86.22
N 754,348.5381
E 2,165,683.9716
Δ 81° 56' 00" (LT)
D 57° 17' 45"
R 100.00
L 143.00
T 86.83
SE -.--- FT/FT
DESIGN SPEED 20 MPH
TRANS. LENGTH ---

670
675
680
200
N

SR-52 STA. 670+65.99 =
ALLRED RD. STA. 202+74.56
N 754325.5643
E 2165547.9535

SR-52 STA. 673+81.62 =
HIDDEN VALLEY GOLF & COUNTRY
CLUB RD. STA. 160+00.00
N 754019.9093
E 2165625.2465

SR-52 STA. 680+11.94 =
TOWER HILL RD. STA. 170+00.00
N 753466.6250
E 2165921.8042

DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM

PC 200+99.40
PT 200+56.49
PC 200+46.39
PT 200+15.43
POT 200+04.51
PC 200+00.00

G20-2
36" X 18"
END
ROAD WORK

W20-1
36" X 36"
ROAD
WORK
AHEAD

100'

PT 202+42.40
POT 202+93.51

669+50 SEE SHT. NO. 31T

MATCH LINE STA. 669+50

SSWL W/ DRUMS
@ 30' C-C

CUT SLOPE

30" ST

SR-52

FILL SLOPE

4" DSYL

4" SSWL W/ DRUMS
@ 90' C-C

PT 167+22.47

MATCH LINE STA. 682+50 SEE SHT. NO. 31X

18" ST

STOP
R1-1
30" X 30"

PC 682+16.90

ACCESS TO PVT. DR.
TO BE MAINTAINED
WHILE ROAD IS CLOSED

LIMIT OF CONST.
200+10.00

LIMIT OF CONST.
171+20.00

LIMIT OF CONST.
164+75.00

SEE SHEET 31W FOR
HIDDEN VALLEY GOLF
AND COUNTRY CLUB ROAD
DETOUR DETAILS

ROAD
CLOSED
R11-2
48" X 30"

A
A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

UNOFFICIAL
SET
NOT FOR
BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
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AGRICULTURE
OWNERS
NO. 108423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLAN
PHASE 2A
STA. 669+50 TO STA. 682+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31 W

ROAD CLOSED
R11-2
48" X 30"

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

M4-9L
30" X 24"
DETOUR
R11-4 (MOD)
60" X 30"
HIDDEN VALLEY
RD. CLOSED
AT S.R. 52

D3-1
24" X 12"
HIDDEN VALLEY
M4-9 (MOD)
30" X 24"
DETOUR

R3-1
24" X 24"

M4-10L
48" X 18"
DETOUR
R3-2
24" X 24"

CASH STREET
D3-1
24" X 12"
HIDDEN VALLEY
D3-1
24" X 12"
DETOUR
M4-9L
30" X 24"

D3-1
24" X 12"
CASH STREET
M4-9 (MOD)
30" X 24"
R3-1
24" X 24"
R3-2
24" X 24"

DETOUR
M4-9 (MOD)
30" X 24"
HIDDEN VALLEY
RD. CLOSED
AT S.R. 52
R11-4 (MOD)
60" X 30"

HIDDEN VALLEY
D3-1
24" X 12"
DETOUR
M4-9L
30" X 24"

END DETOUR
M4-8A
24" X 18"
HIDDEN VALLEY
RD. CLOSED
AT S.R. 52
R11-4 (MOD)
60" X 30"

ROAD CLOSED AHEAD
W20-3
36" X 36"

D3-1
24" X 12"
HIDDEN VALLEY
DETOUR
M4-9R
30" X 24"

D3-1
24" X 12"
HIDDEN VALLEY
M4-9 (MOD)
30" X 24"
DETOUR

D3-1
24" X 12"
HIDDEN VALLEY
DETOUR
M4-9R
30" X 24"

CASH STREET
D3-1
24" X 12"
DETOUR
M4-9L
30" X 24"

CASH STREET
D3-1
24" X 12"
DETOUR
M4-9R
30" X 24"

END DETOUR
M4-8A
24" X 18"

DETOUR
M4-10R
48" X 18"

CASH STREET
D3-1
24" X 12"
DETOUR
M4-9R
30" X 24

DETOUR
M4-9R
30" X 24"
HIDDEN VALLEY
RD. CLOSED
AT S.R. 52
R11-4 (MOD)
60" X 30"

HIDDEN VALLEY
D3-1
24" X 12"
DETOUR
M4-9L
30" X 24"

HIDDEN VALLEY
RD. CLOSED
AT S.R. 52
R11-4 (MOD)
60" X 30"

END DETOUR
M4-8A
24" X 18"

ROAD CLOSED AHEAD
W20-3
36" X 36"

ROAD CLOSED
R11-2
48" X 30"

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

CASH STREET
D3-1
24" X 12"
DETOUR
M4-9L
30" X 24"

DETOUR
M4-9 (MOD)
30" X 24"
CASH STREET
CLOSED
AT S.R. 52
R11-4 (MOD)
60" X 30"

SR-53
HIDDEN VALLEY DR.
HIALEA DR.
GOLF LN.
CRESCENT DR.
GOLF LN.
MOUNTAIN DR.
VALLEY DR.
DOGLEG DR.
LAKEVIEW RD.
IRONWOOD AVE.
TOWER HILL RD.
TOWER HILL RD.
SR-52
N. OAK ST.
CASH ST.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106471
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

HIDDEN VALLEY AND
CASH ST. DETOUR DETAILS

SCALE: 1"=200'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31X

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

N

685

690

695

ROAD CLOSED
R11-2
48" X 30"

A A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

SR-52 STA. 693+58.94 =
CASH ST. STA. 190+00.00
N 752260.6225
E 2166496.9731

4" SSWL W/ DRUMS
@ 90' C-C

4" DSYL

4" DSYL

FILL SLOPE

FILL SLOPE

SR-52

30" ST

30" ST

36" ST

36" ST

18" ST

18" ST

18" ST

18" ST

18" ST

18" ST

18" ST

18" ST

18" ST

MATCH LINE STA. 682+50 SEE SHT. NO. 31U

MATCH LINE STA. 695+50 SEE SHT. NO. 31Y

BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 90' C-C

PC 190+30.63
PT 190+69.37
BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 90' C-C

PT 692+99.54

4" SSWL W/ DRUMS
@ 90' C-C

SEE SHEET 31W FOR
CASH LANE
DETOUR DETAILS

LIMIT OF CONST.
191+15.00

LIMIT OF PAVING
192+00.00

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
SUMMER
No. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	31Y

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

700

SR-111 STA. 217+94.30 =
SR52NCHURCH STA. 800+00.00
N 751204.9213
E 2166754.5121

W20-1 36" X 36" ROAD WORK 1 MILE — 2600'
W20-1 36" X 36" ROAD WORK 1/2 MILE — 1600'
W20-1 36" X 36" ROAD WORK 1000 FT — 500'
W20-1 36" X 36" ROAD WORK 500 FT

800

POT 704+46.39
POT 800+00.00
POT 802+50.00

END ROAD WORK
G20-2 36" X 18"

LIMIT OF CONST.
219+75.00

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076

ROAD WORK NEXT 4 MILES
G20-1 36" X 18"

4" SSWL W/ DRUMS @ 90' C-C
4" DSYL
CUT SLOPE
FILL SLOPE
60' RADIUS
65' RADIUS
100' RADIUS
55' RADIUS
4" RDSYL
4" DSYL
SEE INSET FOR DETAILS NOT SHOWN
LIMIT OF PAVE
802+25.00
S 3° 18' 40" E
250' TRANSITION TIE BEFORE INTERSECTION OF SR-52 (NORTH CHURCH ST) AND E 7TH ST
200' TAPER 8" SSWL W/ DRUMS @ 45' C-C
180' RIGHT TURN LANE
DRUMS ON RADIUS @ 20' C-C W/ ONE (1) TYPE "C" LIGHT EVERY 2ND DRUM
4" SSWL W/ DRUMS @ 50' C-C
500'

MATCH LINE STA. 695+50 SEE SHT. NO. 31X

18" ST | 18" ST | 18" ST | 24" ST | 24" ST | 36" ST | 24" ST | 18" ST | 18" ST

SR-111 STA. 217+90.22 =
SR-52 STA. 704+46.39
N 751203.2127
E 2166750.8076

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127
E 2166750.8076

W20-1 36" X 36" ROAD WORK 500 FT — 500'
W20-1 36" X 36" ROAD WORK 1000 FT — 1600'
W20-1 36" X 36" ROAD WORK 1/2 MILE — 2600'
W20-1 36" X 36" ROAD WORK 1 MILE

LIMIT OF CONST.
215+50.00

END ROAD WORK
G20-2 36" X 18"

S.R. 52 NORTH CHURCH TRANSITION DETAILS

4" RSSWL W/ DRUMS @ 50' C-C AND ONE (1) TYPE C LIGHT EVERY 2ND DRUM
4" DSYL
65' RADIUS
55' RADIUS
250' TRANSITION TIE BEFORE INTERSECTION OF SR-52 (NORTH CHURCH ST) AND E 7TH ST
4" RDSYL
W20-1 36" X 36" ROAD WORK AHEAD
W20-1 36" X 36" ROAD WORK AHEAD
END ROAD WORK
G20-2 36" X 18"
W20-1 36" X 36" ROAD WORK AHEAD
CURB
CURB
CURB

UNOFFICIAL SET
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REGISTERED ENGINEER
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106423

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 2

STA. 695+50 TO STA. 704+47

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32

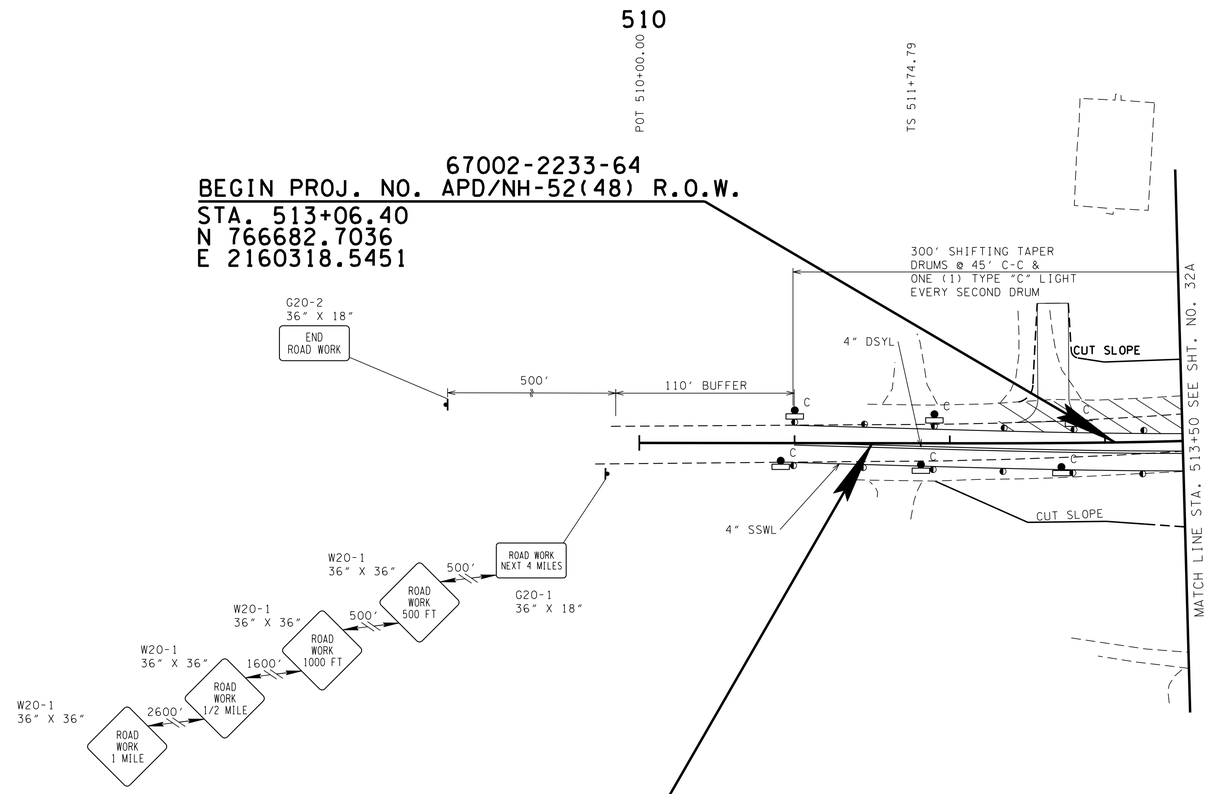
N

510

POT 510+00.00

TS 511+74.79

67002-2233-64
BEGIN PROJ. NO. APD/NH-52(48) R.O.W.
STA. 513+06.40
N 766682.7036
E 2160318.5451



67002-3235-14
BEGIN PROJ. NO. APD/NH-52(48) CONST.
STA. 511+50.00
N 766838.8851
E 2160310.3160

UNOFFICIAL SET
NOT FOR BIDDING

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TRAFFIC CONTROL PLAN PHASE 3

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50'

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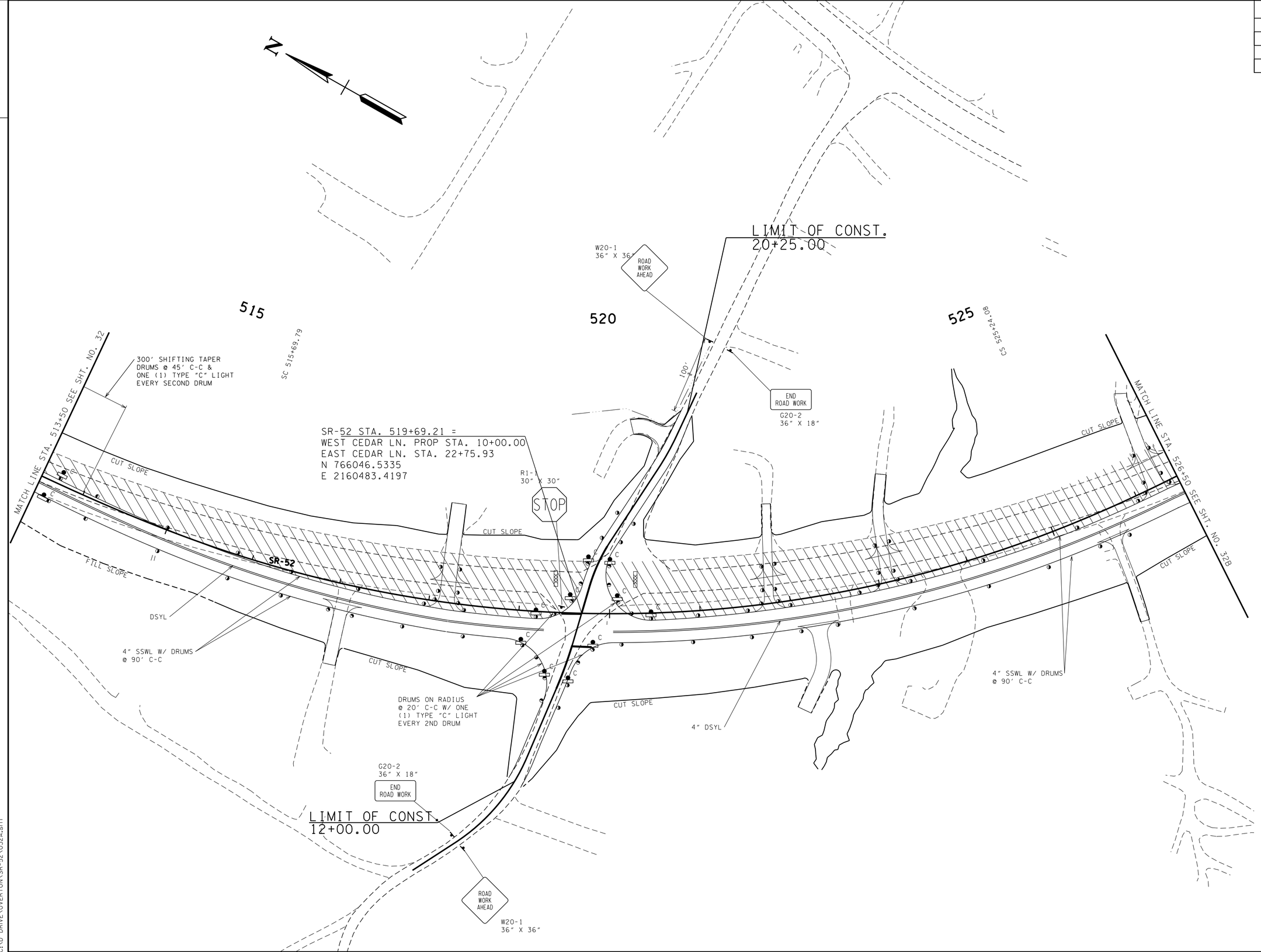
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32A



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XVI
AGRICULTURE
OWNERS
NO. 108423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32B

LIMIT OF CONST.
40+50.00

G20-2
36" X 18"
END
ROAD WORK

300'

100'

ROAD
WORK
1000 FT

500'

W20-1
36" X 36"

ROAD
WORK
500 FT

W20-1
36" X 36"

500'

ST 529+19.08

530

4" DSYL

4" SSWL W/
DRUMS @
50' C-C

SR-52 STA. 528+65.03 =
OLD SR-52 STA. 43+46.36
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

R1-1
30" X 30"

STOP

CUT SLOPE

4" DSYL

DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM

ROAD
WORK
AHEAD

W20-1
36" X 36"

R1-1
30" X 30"

STOP

4" DSYL

CUT SLOPE

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

END
ROAD WORK

G20-2
36" X 18"

TS 532+09.17

100'

535

SC 536+04.17
CS 536+45.06

FILL SLOPE

CUT SLOPE

MATCH LINE STA. 526+50 SEE SHT. NO. 32A

MATCH LINE STA. 539+50 SEE SHT. NO. 32D

SR-52

CUT SLOPE

4" SSWL

4" DSYL

CUT SLOPE

4" DSYL

4" SSWL W/ DRUMS
@ 90' C-C

SEE SHT. 32C FOR
TOWER HILL ROAD
DETOUR DETAILS

LIMIT OF CONST.
32+25.00

500'

ROAD
WORK
AHEAD

W20-1
36" X 36"

END
ROAD WORK

G20-2
36" X 18"

ROAD
CLOSED

R11-2
48" X 30"

A

A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

SR-52 STA. 530+40.86 =
TOWER HILL RD. STA. 50+00.00
N 765350.0572
E 2161274.6023

500'

ROAD
WORK
AHEAD

W20-1
36" X 36"

LIMIT OF CONST.
52+00.00

END
ROAD WORK

G20-2
36" X 18"

N

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REGISTERED ENGINEER
XVI
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OMMERCE
NO. 106423
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 526+50 TO STA. 539+50

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32C

TOWER HILL RD.
DETOUR
M4-9L
30" X 24"

M4-10L
48" X 18"
DETOUR

R3-2
24" X 24"

S.R. 52

ROAD CLOSED
R11-2
48" X 30"

A A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

TOWER HILL RD.
D3-1
24" X 12"

TOWER HILL RD.
DETOUR
M4-9L
30" X 24"

END DETOUR
M4-8A
24" X 18"

S.R. 52

S.R. 52

TOWER HILL RD.
D3-1
24" X 12"

TOWER HILL RD.
DETOUR
M4-9R
30" X 24"

ROAD CLOSED AHEAD
W20-3
36" X 36"

ELMER LANGFORD RD.

S.R. 52

TOWER HILL RD.
DETOUR
M4-9 (MOD)
30" X 24"

R3-1
24" X 24"

D3-1
24" X 12"

TOWER HILL RD.
DETOUR
M4-9L
30" X 24"

END DETOUR
M4-8A
24" X 18"

D3-1
24" X 12"

TOWER HILL RD.
DETOUR
M4-9R
30" X 24"

R11-4 (MOD)
60" X 30"
TOWER HILL RD.
CLOSED
AT S.R. 52

TOWER HILL RD.

N

UNOFFICIAL SET

NOT FOR BIDDING

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AGRICULTURE
COMMERCE
NO. 106472
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

TOWER HILL RD.
DETOUR DETAILS

SCALE: 1"=600'

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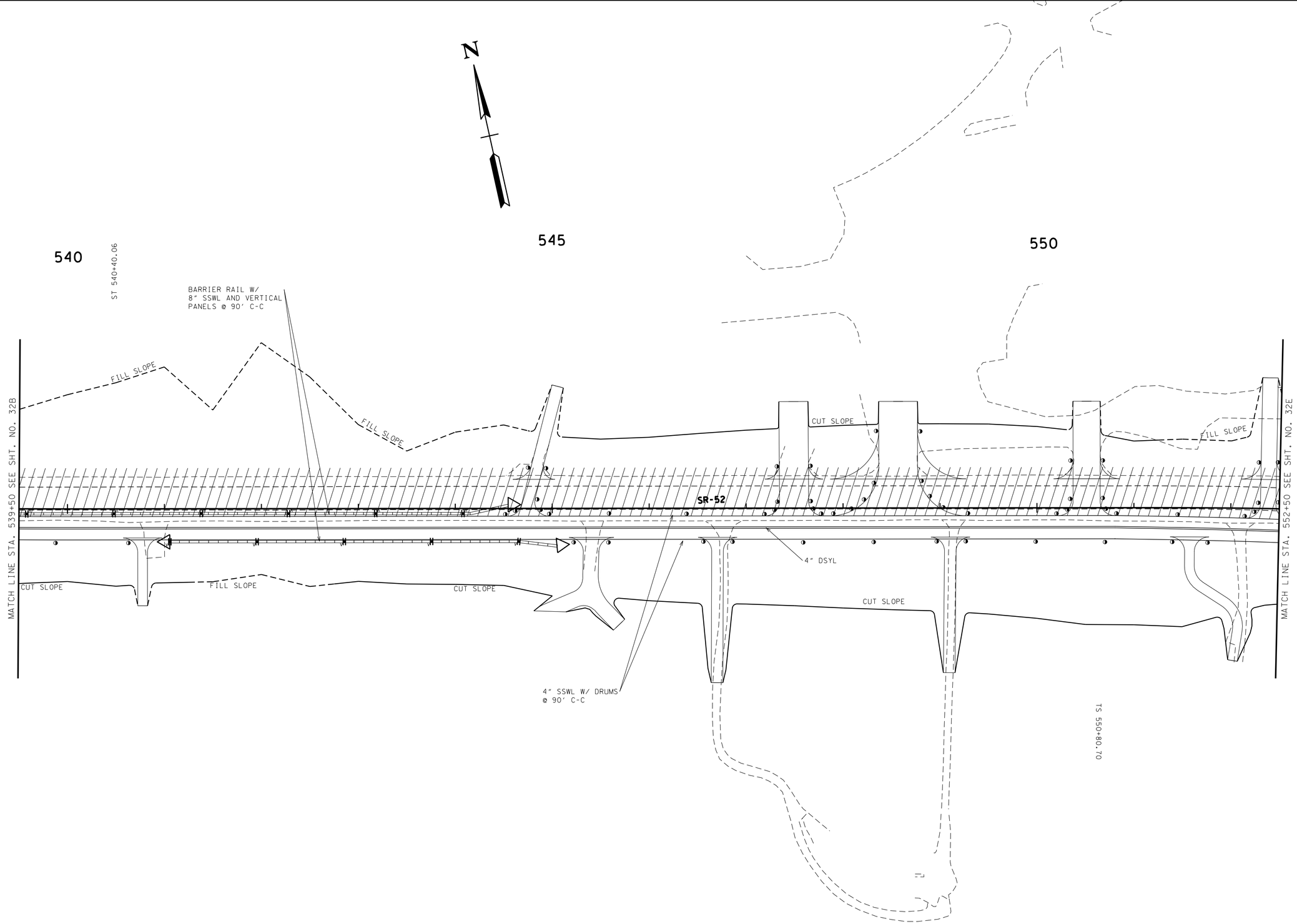
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32D



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TRAFFIC CONTROL PLAN PHASE 3

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

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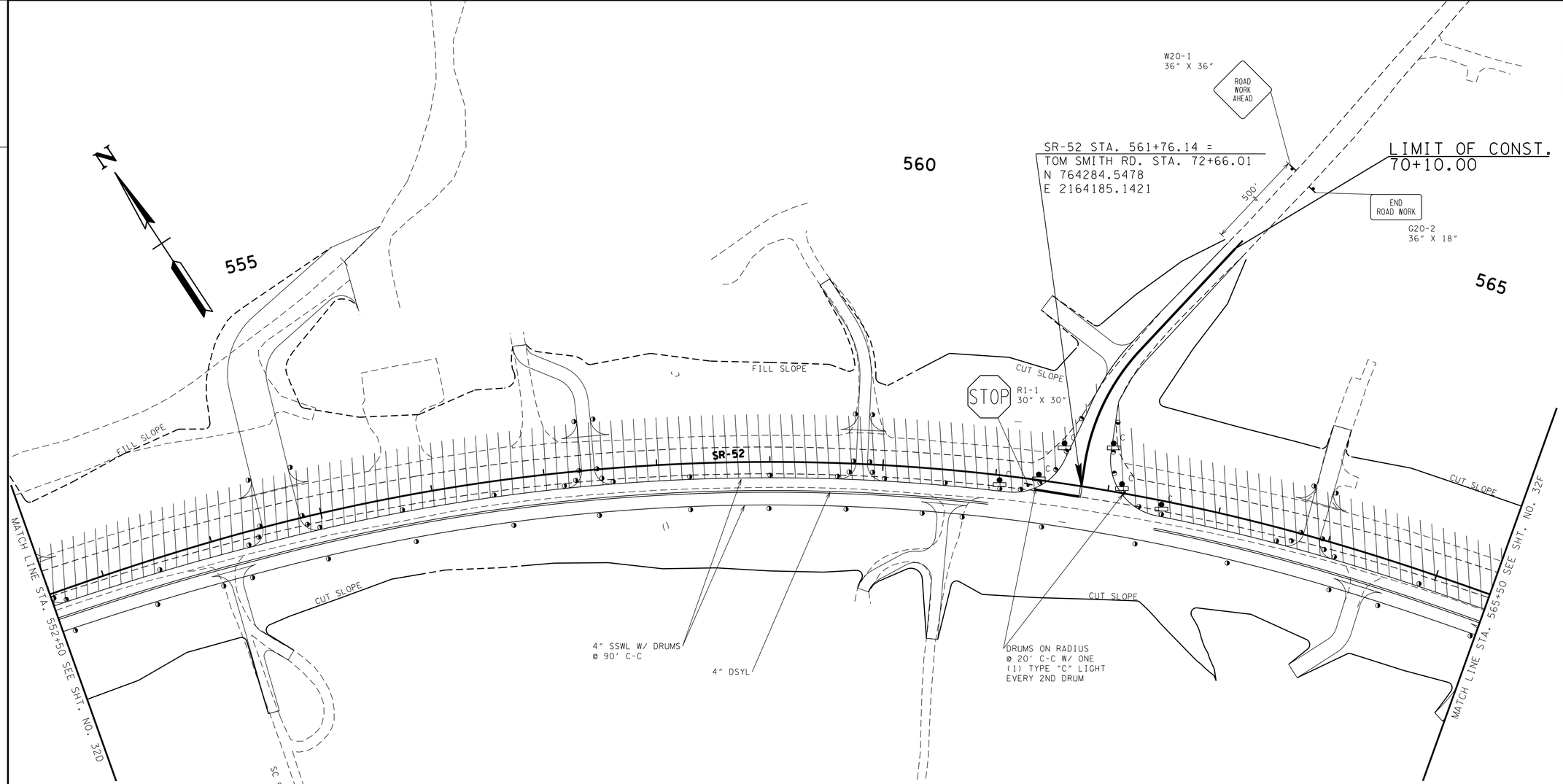
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32E



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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32F

N

LIMIT OF WORK
81+00.00
LIMIT OF CONST.
81+20.00

ROAD CLOSED
R11-2
48" X 30"

A A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

575

570

SEE SHEET 32G FOR
AIRPORT ROAD
DETOUR DETAILS

CUT SLOPE

FILL SLOPE

CUT SLOPE

SR-52

MATCH LINE STA. 565+50 SEE SHT. NO. 32E

MATCH LINE STA. 578+50 SEE SHT. NO. 32H

CUT SLOPE

CUT SLOPE

CUT SLOPE

CUT SLOPE

4" DSYL

4" SSWL W/ DRUMS
@ 90' C-C

ST 567+32.26

TS 572+22.17

SC 576+02.17

SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
ENGINEERS
NO. 106423
STATE OF TENNESSEE

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TRAFFIC CONTROL PLAN PHASE 3

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32G

N

FROGTOWN RD.

D3-1 24" X 12"
AIRPORT ROAD
DETOUR
M4-9L 30" X 24"
R11-4 (MOD) 60" X 30"
AIRPORT ROAD CLOSED AT S.R. 52

FROGTOWN RD.

AIRPORT ROAD
D3-1 24" X 12"
DETOUR
M4-9L 30" X 24"

W20-3 36" X 36"
ROAD CLOSED AHEAD

AIRPORT ROAD
D3-1 24" X 12"
DETOUR
M4-9R 30" X 24"

AIRPORT ROAD
D3-1 24" X 12"
DETOUR
M4-9 (MOD) 30" X 24"
AIRPORT ROAD CLOSED AT S.R. 52
R11-4 (MOD) 60" X 30"

AIRPORT ROAD
D3-1 24" X 12"
DETOUR
M4-9L 30" X 24"
M4-8A 24" X 18"
END DETOUR

TOM SMITH LN.

R11-4 (MOD) 60" X 30"
AIRPORT ROAD CLOSED AT S.R. 52

CROSSOVER RD.

AIRPORT RD.

AIRPORT ROAD
D3-1 24" X 12"
DETOUR
M4-9R 30" X 24"

AIRPORT ROAD
D3-1 24" X 12"
DETOUR
M4-9L 30" X 24"

AIRPORT RD.

FISK RD.

AIRPORT ROAD
D3-1 24" X 12"
DETOUR
M4-9L 30" X 24"

ROAD CLOSED
R11-2 48" X 30"
A A
TYPE III BARRICADE ROAD CLOSURE w/ TYPE A WARNING LIGHTS

TOM SMITH LN.

M4-8A 24" X 18"
END DETOUR

DETOUR
M4-10L 48" X 18"

M4-8A 24" X 18"
END DETOUR

AIRPORT ROAD
D3-1 24" X 12"
DETOUR
M4-9R 30" X 24"

R3-1 24" X 24"

D3-1 24" X 12"
AIRPORT ROAD
DETOUR
M4-9 (MOD) 30" X 24"

R3-2 24" X 24"

AIRPORT ROAD
D3-1 24" X 12"
DETOUR
M4-9L 30" X 24"

S.R. 52

S.R. 52

S.R. 52

S.R. 52

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AGRICULTURE
FARMERS
NO. 106423
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

TOWER HILL RD.
DETOR DETAILS
SCALE: 1"=500'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32H

N

580

585

590

W20-1
36" X 36"
ROAD WORK AHEAD

LIMIT OF CONST.
90+35.00

END ROAD WORK

G20-2
36" X 18"

500'

R1-1
30" X 30"
STOP

TS 589+63.94

FILL SLOPE

CUT SLOPE

SR-52

MATCH LINE STA. 578+50 SEE SHT. NO. 32F

4" DSYL

4" SSWL W/ DRUMS
@ 90' C-C

DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM

CS 584+05.91

SR-52 STA. 585+54.02 =
FISK RD. STA. 91+72.78
N 762223.9052
E 2165230.0556

ST 587+85.91

CUT SLOPE

CUT SLOPE

MATCH LINE STA. 591+50 SEE SHT. NO. 321

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COMMERCE
NO. 106423
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50'

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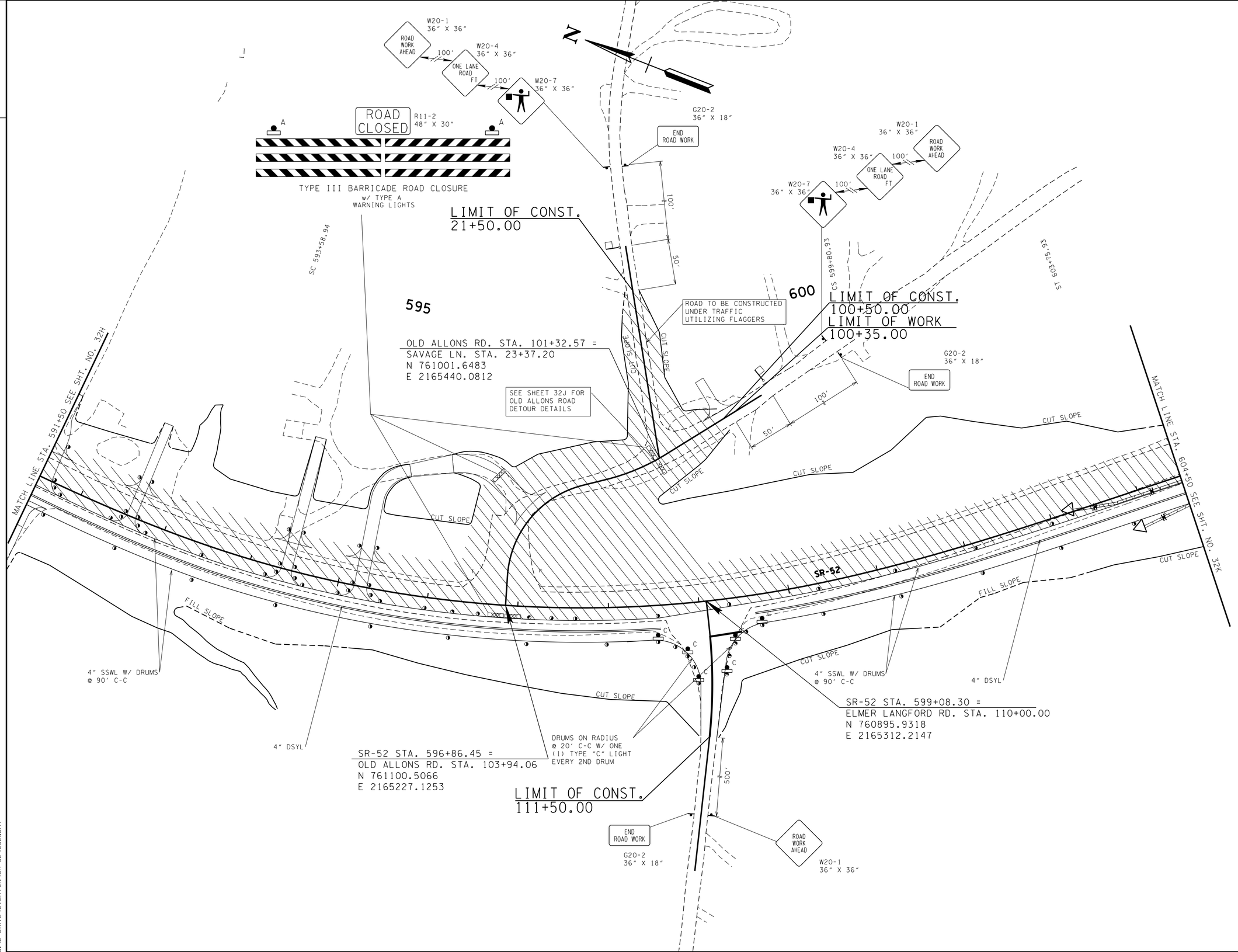
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32I



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32J

N

SC 593+58.94

595

600

CS 599+80.93

W20-3
36" X 36"
ROAD CLOSED AHEAD

ST 603+75.93

605

D3-1
24" X 12"
OLD ALLONS RD.
M4-9L
30" X 24"
DETOUR

D3-1
24" X 12"
OLD ALLONS RD.
M4-9R
30" X 24"
DETOUR

END DETOUR
M4-8A
24" X 18"

D3-1
24" X 12"
OLD ALLONS RD.
M4-9L
30" X 24"
DETOUR

D3-1
24" X 12"
OLD ALLONS RD.
M4-9R
30" X 24"
DETOUR

M4-10R
48" X 18"
DETOUR

END DETOUR
M4-8A
24" X 18"

R3-1
24" X 24"

SR-52

R3-2
24" X 24"

OLD ALLONS RD.
D3-1
24" X 12"
M4-9 (MOD)
30" X 24"
DETOUR

A
ROAD CLOSED
R11-2
48" X 30"
A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

TS 605+80.77

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
AGRICULTURE
COMMERCE
NO. 106472
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

OLD ALLONS RD.
DETOUR DETAILS
SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32K

LIMIT OF CONST.
120+50.00

610

615

605

W20-1
36" X 36"

ROAD WORK AHEAD

100'

END ROAD WORK

G20-2
36" X 18"

R1-1
30" X 30"

STOP

FILL SLOPE

CUT SLOPE

SR-52

MATCH LINE STA. 604+50 SEE SHT. NO. 32L

MATCH LINE STA. 617+50 SEE SHT. NO. 32L

BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 90' C-C

4" SSWL W/ DRUMS
@ 90' C-C

4" DSYL

BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 90' C-C

SR-52 STA. 608+00.77 =
OLD ALLONS RD. STA. 122+66.10
N 760188.0900
E 2165853.3676

TS 605+80.77

SC 609+05.77

CS 616+40.90

N

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

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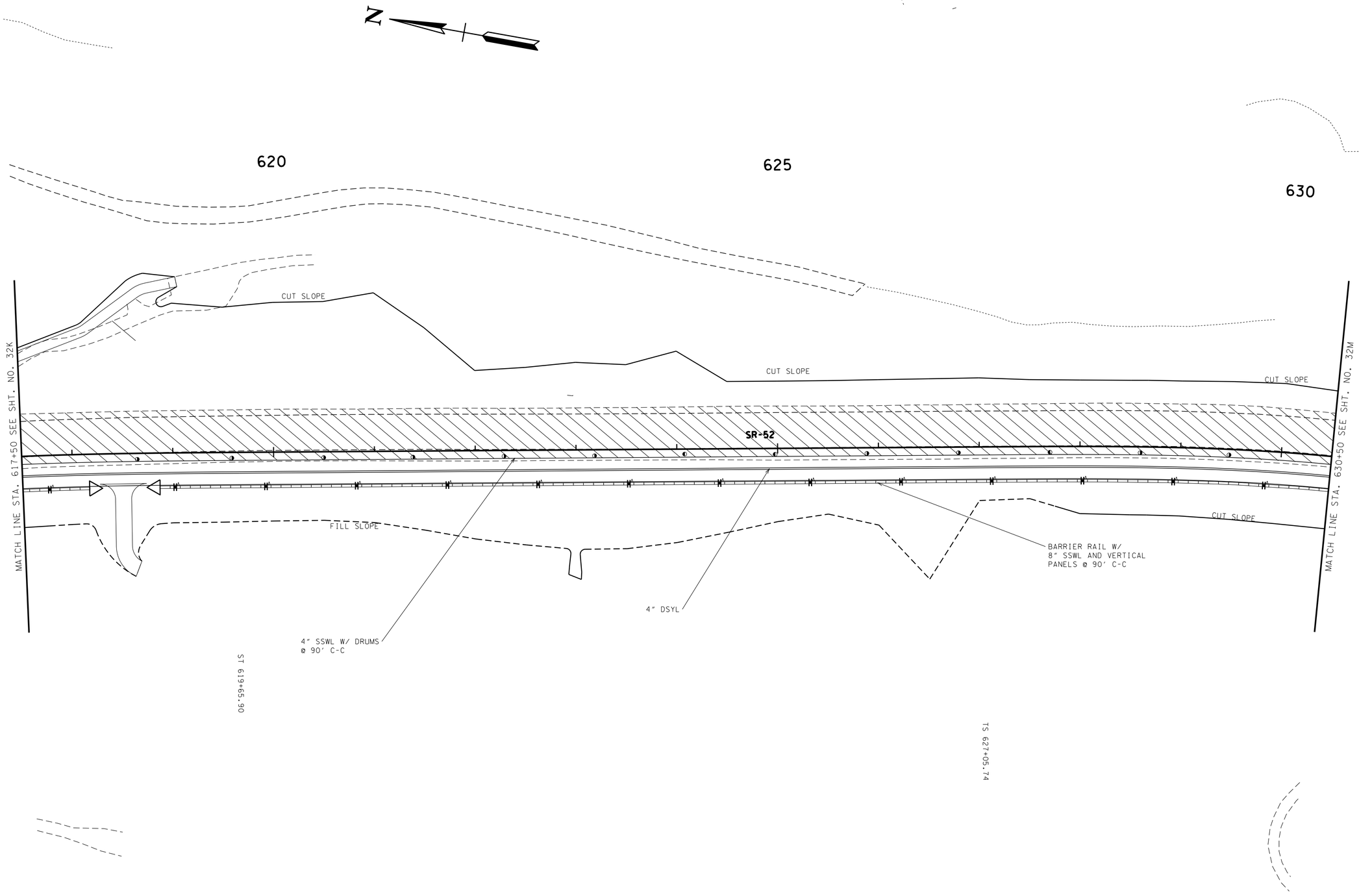
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32L



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KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 108423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32M

END ROAD WORK
G20-2
36" X 18"
250'
ROAD WORK AHEAD
W20-1
36" X 36"
LIMIT OF CONST.
142+50.00
635
640
SR-52 STA. 639+25.00 =
FAIRVIEW LN. STA. 147+31.84
N 757216.4583
E 2166290.9817
BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 40' C-C
SSWL W/
DRUMS @
40' C-C
CUT SLOPE
DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM
R1-1
30" X 30"
STOP
FILL SLOPE
CUT SLOPE
SR-52 STA. 641+23.96 =
ROE LN. STA. 150+00.00
N 757050.9256
E 2166180.7718
N
SR-52
4" DSYL
BARRIER RAIL W/
8" SSWL AND VERTICAL
PANELS @ 90' C-C
4" SSWL W/ DRUMS
@ 90' C-C
MATCH LINE STA. 630+50 SEE SHT. NO. 32L
MATCH LINE STA. 643+50 SEE SHT. NO. 32N
BARRELS @ 30' C-C
100'
END ROAD WORK
G20-2
36" X 18"
FILL SLOPE
FILL SLOPE
ROAD WORK AHEAD
W20-1
36" X 36"
LIMIT OF WORK
153+70.00
SC 631+00.74
CS 639+30.13
BARRIER RAIL W/
8" SSWL
4" SSWL W/ DRUMS
@ 90' C-C
FILL SLOPE
DRUMS ON RADIUS
@ 20' C-C W/ ONE
(1) TYPE "C" LIGHT
EVERY 2ND DRUM
ST 643+25.13
LIMIT OF CONST.
153+00.00

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COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50'

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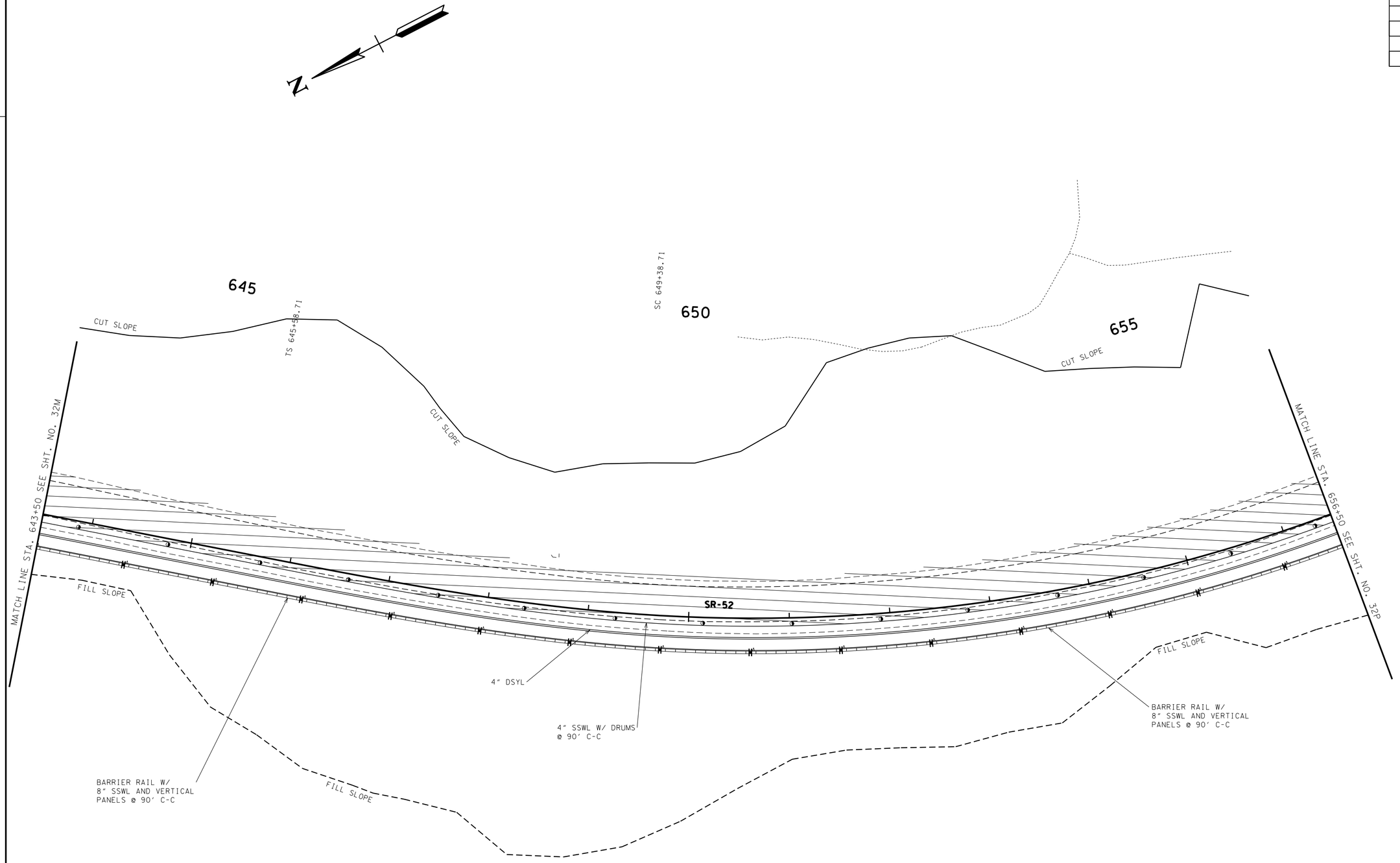
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32N



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NOT FOR BIDDING

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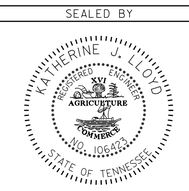

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50'

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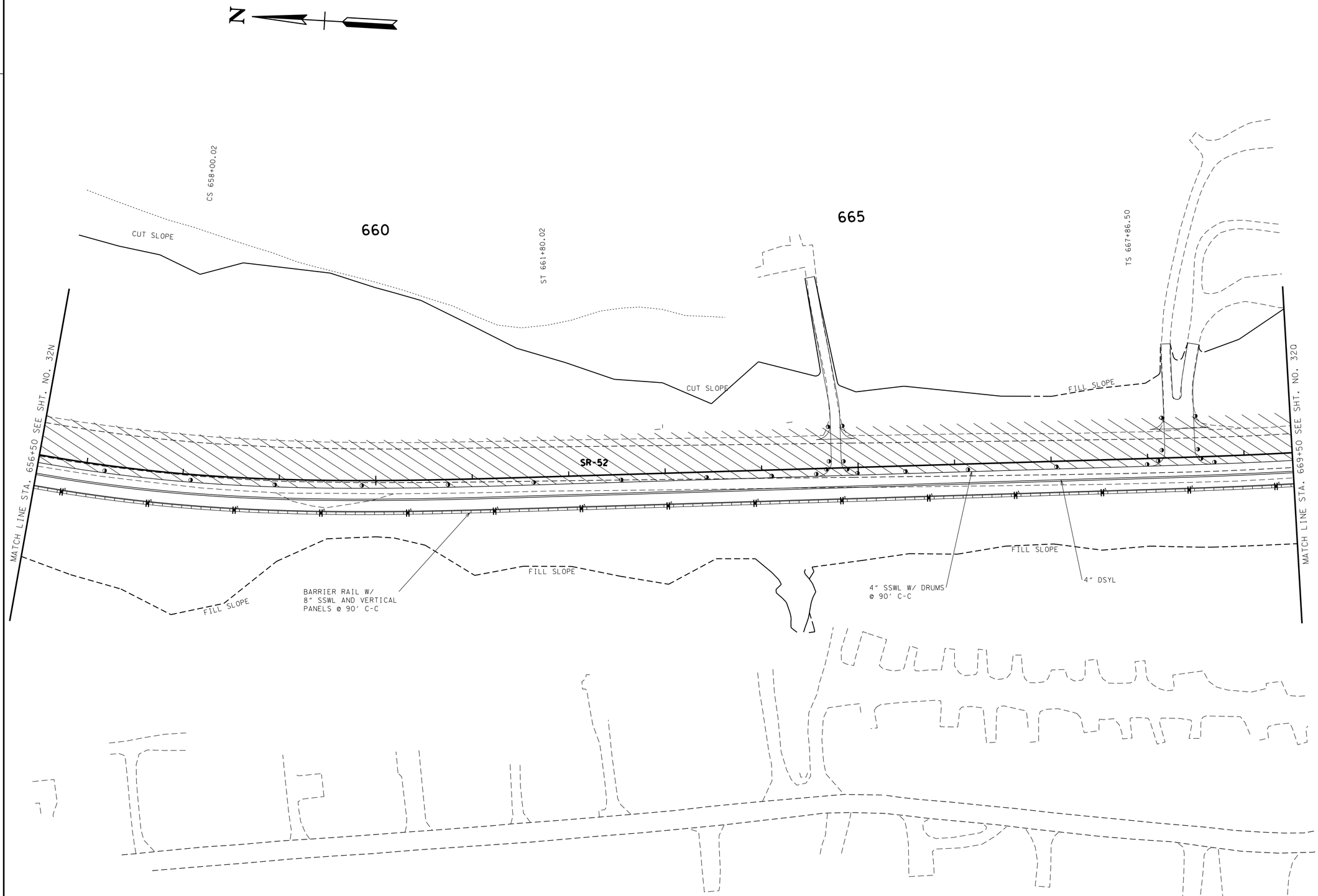
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32P



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 656+50 TO STA. 669+50

SCALE: 1"= 50'

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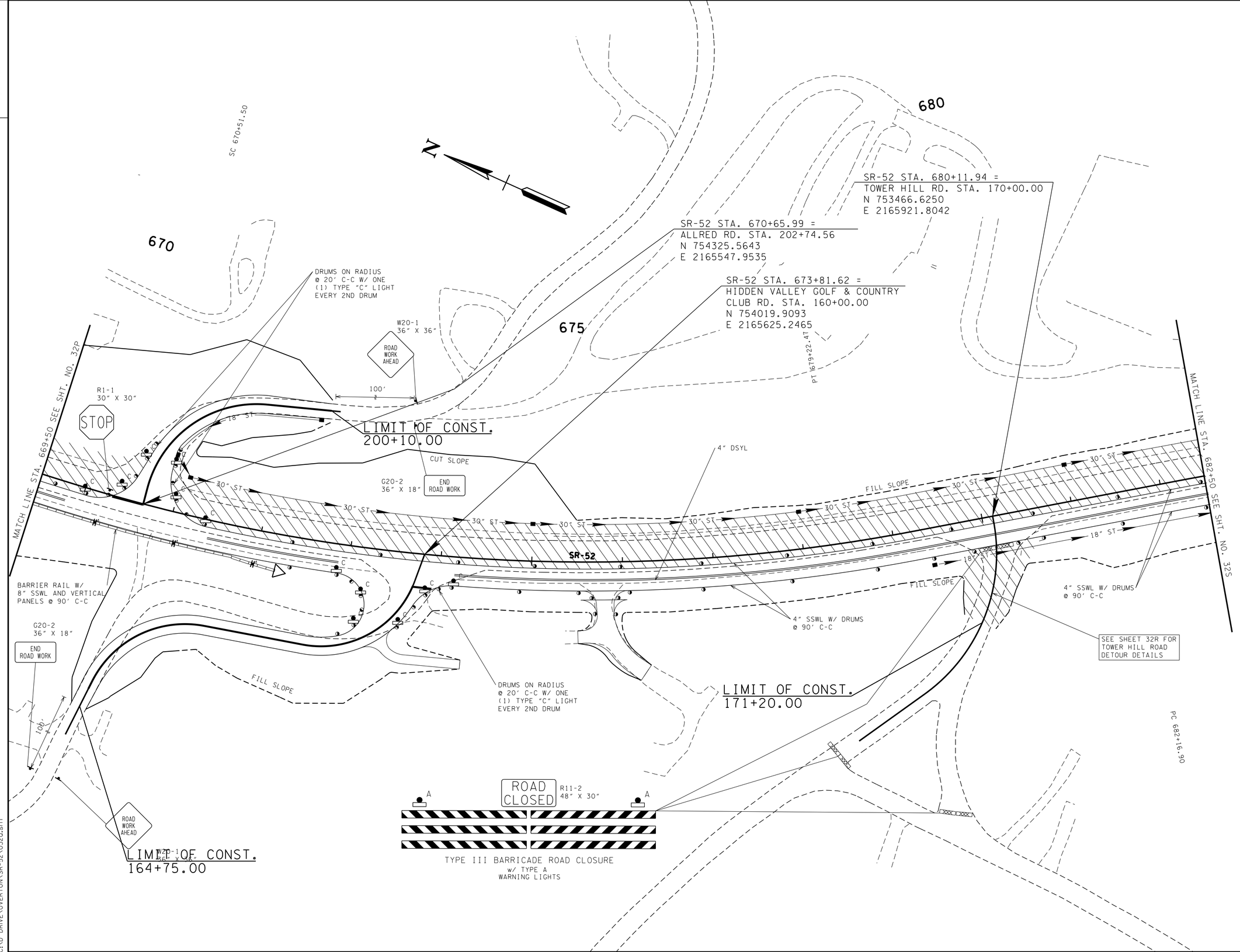
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	320



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KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
OMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32R

SR-53

HIDDEN VALLEY DR.

HIALEA DR.

GOLF LN.

CRESCENT DR.

GOLF LN.

LAKEVIEW RD.

MOUNTAIN DR.

VALLEY DR.

DOGLEG DR.

IRONWOOD AVE.

TOWER HILL RD.

SR-52

N. OAK ST.

S. CASH ST.

D3-1 24" X 12" — TOWER HILL ROAD
M4-9R 30" X 24" — DETOUR
R11-4 (MOD) 60" X 30" — TOWER HILL RD. CLOSED AT S.R. 52

D3-1 24" X 12" — TOWER HILL ROAD
M4-9L 30" X 24" — DETOUR
R11-4 (MOD) 60" X 30" — TOWER HILL RD. CLOSED AT S.R. 52

D3-1 24" X 12" — TOWER HILL ROAD
M4-9L 30" X 24" — DETOUR

D3-1 24" X 12" — TOWER HILL ROAD
M4-9R 30" X 24" — DETOUR

D3-1 24" X 12" — TOWER HILL ROAD
M4-9 (MOD) 30" X 24" — DETOUR

R3-2 24" X 24"

END DETOUR
M4-8A 24" X 18"

R3-1 24" X 24"

DETOUR
M4-10R 48" X 18"

DETOUR
M4-10L 48" X 18"

D3-1 24" X 12" — TOWER HILL ROAD
M4-9L 30" X 24" — DETOUR

D3-1 24" X 12" — TOWER HILL ROAD
M4-9R 30" X 24" — DETOUR

ROAD CLOSED AHEAD
W20-3 36" X 36"

M4-8A 24" X 18" — END DETOUR

D3-1 24" X 12" — TOWER HILL ROAD
M4-9L 30" X 24" — DETOUR
R11-4 (MOD) 60" X 30" — TOWER HILL RD. CLOSED AT S.R. 52

D3-1 24" X 12" — TOWER HILL ROAD
M4-9 (MOD) 30" X 24" — DETOUR
R11-4 (MOD) 60" X 30" — TOWER HILL RD. CLOSED AT S.R. 52

D3-1 24" X 12" — TOWER HILL ROAD
M4-9L 30" X 24" — DETOUR
R11-4 (MOD) 60" X 30" — TOWER HILL RD. CLOSED AT S.R. 52

D3-1 24" X 12" — TOWER HILL ROAD
M4-9L 30" X 24" — DETOUR

ROAD CLOSED
R11-2 48" X 30"

A — A

TYPE III BARRICADE ROAD CLOSURE
w/ TYPE A
WARNING LIGHTS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106475
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

HIDDEN VALLEY AND CASH ST. DETOUR DETAILS

SCALE: 1"=200'

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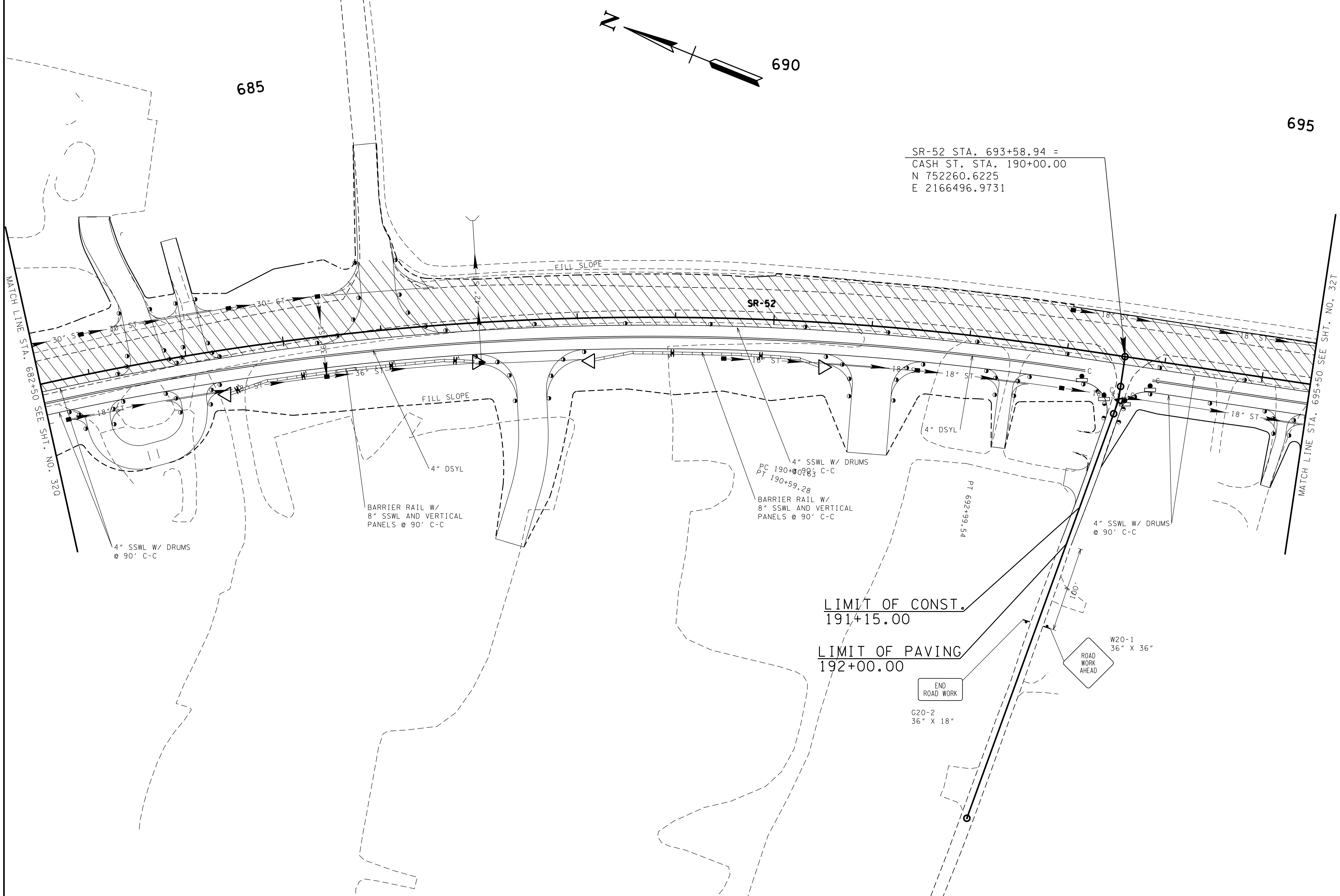
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32S

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION



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KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50'

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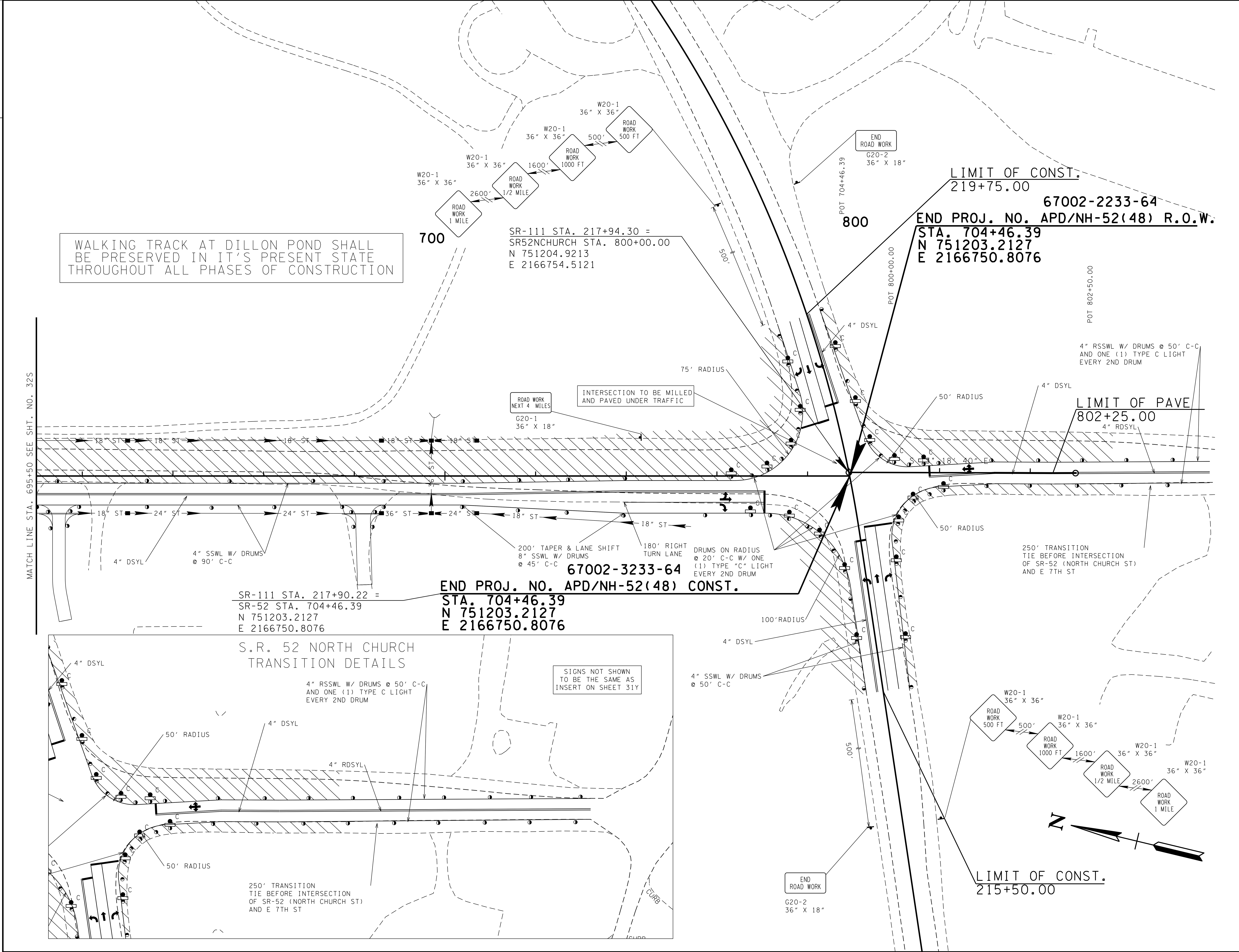
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	32T



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE 3

STA. 695+50 TO STA. 704+47

SCALE: 1"= 50'

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33

N

510

POT 510+00.00

TS 511+74.79

67002-2233-64
BEGIN PROJ. NO. APD/NH-52(48) R.O.W.
STA. 513+06.40
N 766682.7036
E 2160318.5451

FLEXIBLE DELINEATORS
THROUGHOUT TRANSITION
2' OFF EDGE OF SHOULDER
@ 110' C-C

BEGIN ℄ MARKING
TRANSITION
STA. 513+20.00
℄ OFFSET -0.00'

4" SSWL W/
RUMBLE STRIP

BEGIN EDGELINE
MARKING TRANSITION
STA. 511+50.00
EDGELINE OFFSET -11.86

4" DSYL

S 2° 45' 17" E

4" SSWL W/
RUMBLE STRIP

BEGIN EDGELINE
MARKING TRANSITION
STA. 511+50.00
EDGELINE OFFSET 11.83'

BEGIN ℄ MARKING
TRANSITION
STA. 513+20.00
℄ OFFSET 0.00'

MATCH LINE STA. 513+50 SEE SHT. NO. 33A

SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR AND SPACING AND DOUBLE ARROW PLACEMENT

67002-3235-14
BEGIN PROJ. NO. APD/NH-52(48) CONST.
STA. 511+50.00
N 766838.8851
E 2160310.3160

UNOFFICIAL SET

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KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 511+50 TO STA. 513+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33A

N

(A) TO BE LOCATED AS DIRECTED BY THE ENGINEER. TYPICAL ALL W3-1 SIGNS LOCATED OUTSIDE CONST. LIMITS

515

520

525

SC 515+69.79

SC 525+24.08

MATCH LINE STA. 513+50 SEE SHT. NO. 33

MATCH LINE STA. 526+50 SEE SHT. NO. 33B

SR-52 STA. 519+69.21 =
WEST CEDAR LN. PROP STA. 10+00.00
EAST CEDAR LN. STA. 22+75.93
N 766046.5335
E 2160483.4197

LIMIT OF CONST.
20+25.00

LIMIT OF CONST.
12+00.00

FLEXIBLE DELINEATORS
THROUGHOUT TRANSITION
2' OFF EDGE OF SHOULDER
@ 110' C-C

FLEXIBLE DELINEATORS
THROUGHOUT TRANSITION
2' OFF EDGE OF SHOULDER
@ 110' C-C

END MARKING TRANSITION
STA. 522+30.00
℄ OFFSET -6.00'
EDGELINE OFFSET -30.00'

END MARKING TRANSITION
STA. 522+30.00
℄ OFFSET 6.00'
EDGELINE OFFSET 30.00'

4" SSWL W/
RUMBLE STRIP

4" SSWL W/
RUMBLE STRIP

4" SSWL W/
RUMBLE STRIP

4" SSWL W/
RUMBLE STRIP

4" SSWL

4" SSWL

4" SSWL

4" SSYL W/
4" SBYL

4" SSYL W/
4" SBYL

4" SBWL

4" SBWL

4" DSYL

4" DSYL

4" DSYL

4" DSYL

12" YELLOW STRIPE AT 45°
AND 100' SPACING

12" YELLOW STRIPE AT 45°
AND 100' SPACING

16' OF 24" STOP BAR
10' OFF TRAVEL WAY

(2) DEAD END

(3) STOP

(5) STOP

(4)

(A)

(6A)

EAST
52
Tennessee
(6)

WILLOW GROVE CAMPGROUND
WILLOW GROVE MARINA
LILLYDALE CAMPGROUND
AND DAY USE 15 MILES

SR-52

20

10

N 86° 12' 06" W

S 76° 52' 35" W

S 13° 36' 45" W

N 62° 30' 54" W

SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR AND SPACING AND DOUBLE ARROW PLACEMENT

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
47
OWNERS
NO. 106472
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 513+50 TO STA. 526+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33B

LIMIT OF CONST.
40+50.00

40

Ⓐ TO BE LOCATED AS DIRECTED BY THE ENGINEER. TYPICAL ALL W3-1 SIGNS LOCATED OUTSIDE CONST. LIMITS

BEGIN PROJ. NO. 67002-3233-64
END PROJ. NO. 67002-3235-14
PROJ. NO. APD/NH-52(48) CONST.
STA. 528+11.19
N 765464.8887
E 2161075.6975

SR-52 STA. 532+38.95 =
HOOVER CEMETERY RD. STA. 62+04.27
N 765251.3211
E 2161446.3220

LIMIT OF CONST.
60+85.00

60

ST 529+19.08

530

535

SC 536+04.17
CS 536+45.06

SR-52 STA. 528+65.03 =
OLD SR-52 STA. 43+46.36
ANDREW COVE RD. STA. 30+00.00
N 765437.7524
E 2161122.1984

WILLOW GROVE CAMPGROUND
WILLOW GROVE MARINA
LILLYDALE CAMPGROUND
AND DAY USE 15 MILES →

TS 532+09.17

S 68° 33' 02" E

S 60° 30' 11" W

S 30° 03' 27" W

S 29° 54' 02" W

S 60° 05' 58" E

S 29° 51' 17" W

S 17° 17' 56" E

SR-52

4" DSYL
4" SSWL
4" SSWL W/ RUMBLE STRIP
4" SSYL W/ 4" SBYL
4" SBWL

28' OF 24" STOP BAR
30' OFF TRAVEL WAY

26' OF 24" STOP BAR
10' OFF TRAVEL WAY

16' OF 24" STOP BAR
30' OFF TRAVEL WAY

12' OF 24" STOP BAR
30' OFF TRAVEL WAY

100' STORAGE
65' STORAGE

STOP

SPEED LIMIT 55

SPEED LIMIT 60

W3-5 36" X 36"

MATCH LINE STA. 526+50 SEE SHT. NO. 33A

MATCH LINE STA. 539+50 SEE SHT. NO. 33C

LIMIT OF CONST.
32+25.00

LIMIT OF CONST.
52+00.00

SR-52 STA. 530+40.86 =
TOWER HILL RD STA. 50+00.00
N 765350.0572
E 2161274.6023

SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI AGRICULTURE XVI
COMMERCE
NO. 106422
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 526+50 TO STA. 539+50

SCALE: 1"=50 '

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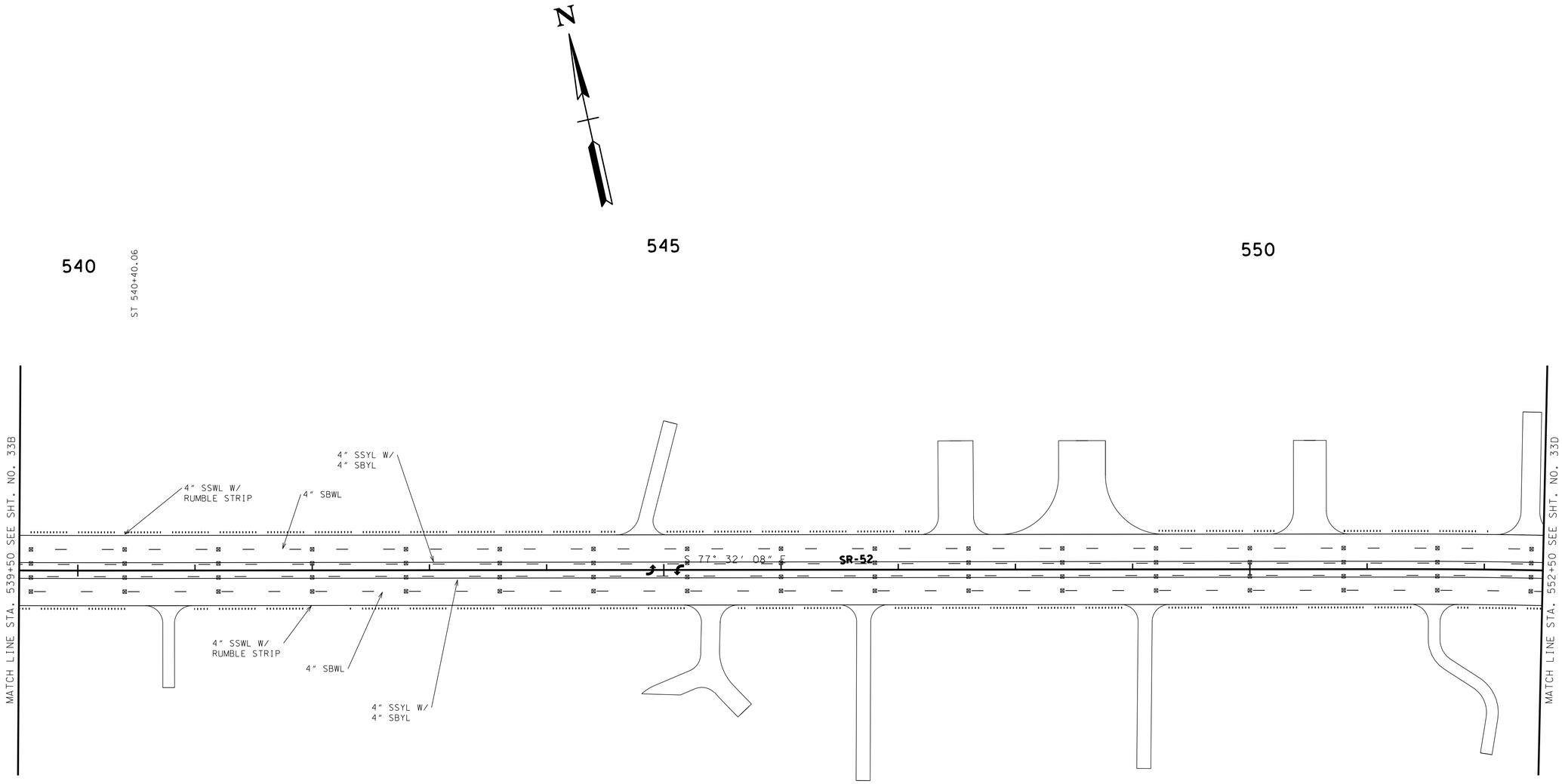
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33C



SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106473
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

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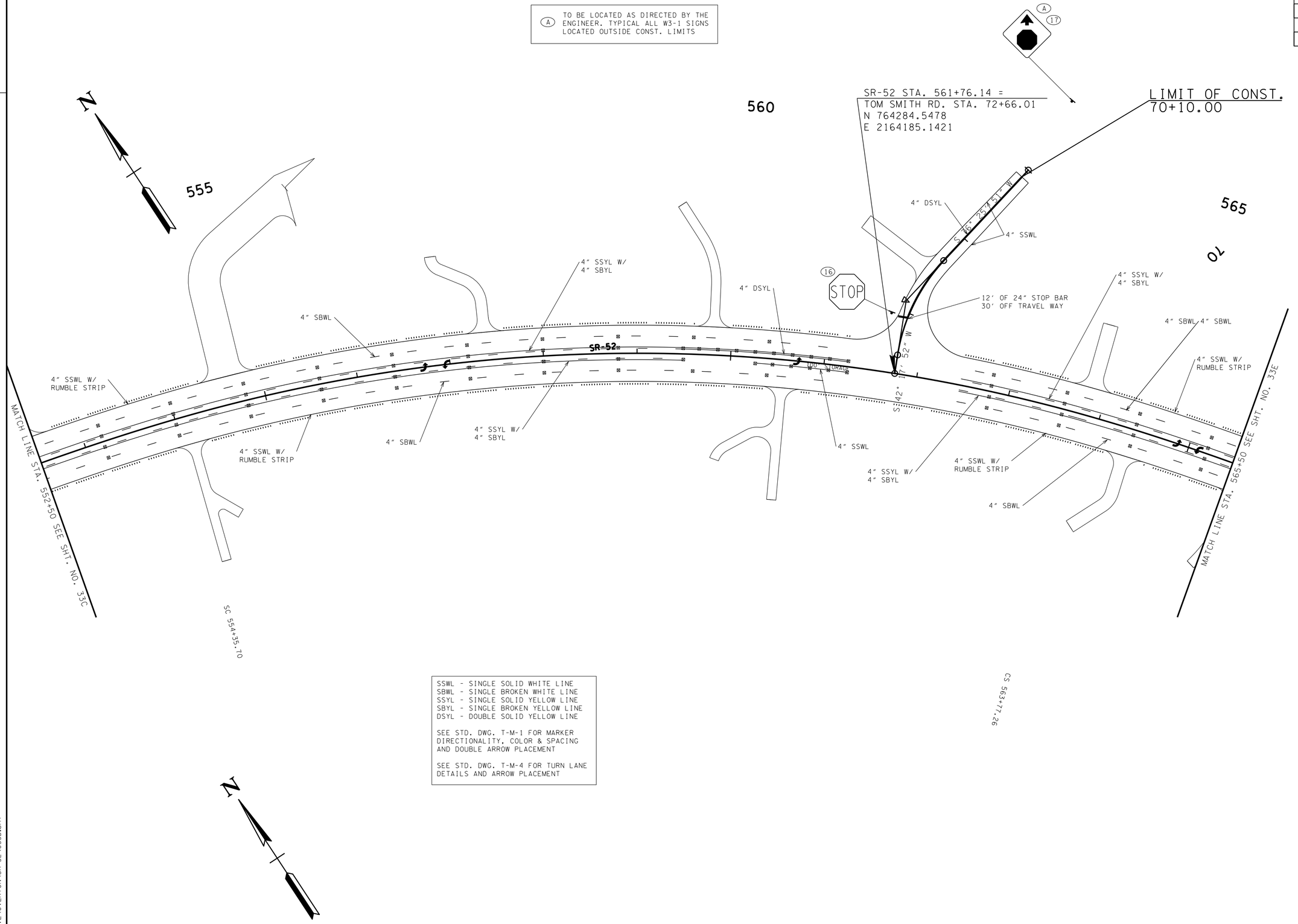
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33D

(A) TO BE LOCATED AS DIRECTED BY THE ENGINEER. TYPICAL ALL W3-1 SIGNS LOCATED OUTSIDE CONST. LIMITS



SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33E

LIMIT OF WORK
81+00.00
LIMIT OF CONST.
81+20.00

(A) TO BE LOCATED AS DIRECTED BY THE ENGINEER. TYPICAL ALL W3-1 SIGNS LOCATED OUTSIDE CONST. LIMITS

575

570

08

(19) (A)

(18) STOP

4" SSWL W/ RUMBLE STRIP

4" SSYL W/ 4" SBYL

4" SBWL

4" SSWL

4" DSYL

16' OF 24" STOP BAR 30' OFF TRAVEL WAY

100' STORAGE

S 35° 23' 51" E

S 72° 25' 39" W

S 66° 06' 20" W

SR-52

MATCH LINE STA. 565+50 SEE SHT. NO. 33D

MATCH LINE STA. 578+50 SEE SHT. NO. 33F

ST 567+32.26

TS 572+22.17

SC 576+02.17

SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786

SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 108423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33F

(A) TO BE LOCATED AS DIRECTED BY THE ENGINEER. TYPICAL ALL W3-1 SIGNS LOCATED OUTSIDE CONST. LIMITS

N

(A) (21)

585

580

590

LIMIT OF CONST.
90+35.00

TS 589+63.94

N 86° 26' 35" W

4" SSWL

14' OF 24" STOP BAR
30' OFF TRAVEL WAY

(20) STOP

4" DSYL

4" DSYL

4" SSYL W/
4" SBYL

4" SBWL

4" SSWL W/
RUMBLE STRIP

4" SSYL W/
4" SBYL

4" SBWL

4" SSWL W/
RUMBLE STRIP

100' STORAGE

SR-52

S 86° 02' 00" W

(22) CENTER LANE ONLY

4" SSWL W/
RUMBLE STRIP

4" SSWL

4" SSYL W/
4" SBYL

4" SBWL

4" SSWL W/
RUMBLE STRIP

MATCH LINE STA. 578+50 SEE SHT. NO. 33E

MATCH LINE STA. 591+50 SEE SHT. NO. 33G

CS 584+05.91

ST 587+85.91

SR-52 STA. 585+54.02 =
FISK RD. STA. 91+72.78
N 762223.9052
E 2165230.0556

SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XIV
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 578+50 TO STA. 591+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33G

N

(A) TO BE LOCATED AS DIRECTED BY THE ENGINEER. TYPICAL ALL W3-1 SIGNS LOCATED OUTSIDE CONST. LIMITS

LIMIT OF CONST.
21+50.00

SC 593+58.94

595

OLD ALLONS RD. STA. 101+32.57 =
SAVAGE LN. STA. 23+37.20
N 761001.6483
E 2165440.0812

CS 599+80.93

600

LIMIT OF CONST.
100+50.00
LIMIT OF WORK
100+35.00

ST 603+15.93

MATCH LINE STA. 591+50 SEE SHT. NO. 33F

4" SBWL

4" SSWL W/
RUMBLE STRIP

4" SSYL W/
4" SBYL

4" SSWL

4" DSYL

4" SBWL

4" SSWL W/
RUMBLE STRIP

4" SSYL W/
4" SBYL

4" SSWL

4" DSYL

4" SBWL

4" SSYL W/
4" SBYL

4" SSWL W/
RUMBLE STRIP

MATCH LINE STA. 604+50 SEE SHT. NO. 33H

SPEED LIMIT 60

STOP

15' OF 24" STOP BAR
4' OFF TRAVEL WAY

24' OF 24" STOP BAR
10' OFF TRAVEL WAY

30' OF 24" STOP BAR
10' OFF TRAVEL WAY

S 59° 44' 50" W

N 53° 06' 47" W

N 35° 17' 43" W

S 72° 24' 27" W

S 23° 28' 28" E

100' STORAGE

SR-52

110

SR-52 STA. 596+86.45 =
OLD ALLONS RD. STA. 103+94.06
N 761100.5066
E 2165227.1253

SR-52 STA. 599+08.30 =
ELMER LANGFORD RD. STA. 110+00.00
N 760895.9318
E 2165312.2147

LIMIT OF CONST.
111+50.00

S 74° 56' 08" W

SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
SUMNER
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33H

(A) TO BE LOCATED AS DIRECTED BY THE ENGINEER. TYPICAL ALL W3-1 SIGNS LOCATED OUTSIDE CONST. LIMITS

LIMIT OF CONST.
120+50.00

605 610 615 620

(A) (34)

4" SSWL

4" DSYL

(33) STOP

4" SSWL W/
RUMBLE STRIP

20' OF 24" STOP BAR
20' OFF TRAVEL WAY

S 12° 20' 12" W
S 25° 11' 58" W

4" SBWL

4" DSYL

4" SSYL W/
4" SBYL

100' STORAGE

S 39° 43' 53" E

SR-52

4" SSYL W/
4" SBYL

4" SBWL

4" SSWL W/
RUMBLE STRIP

4" SSYL W/
4" SBYL

4" SBWL

4" SSWL W/
RUMBLE STRIP

MATCH LINE STA. 604+50 SEE SHT. NO. 33G

MATCH LINE STA. 617+50 SEE SHT. NO. 33I

(35) CENTER LANE ONLY

SR-52 STA. 608+00.77 =
OLD ALLONS RD. STA. 122+66.10
N 760188.0900
E 2165853.3676

TS 605+80.77

SC 609+05.77

CS 616+40.90

N

SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 104423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

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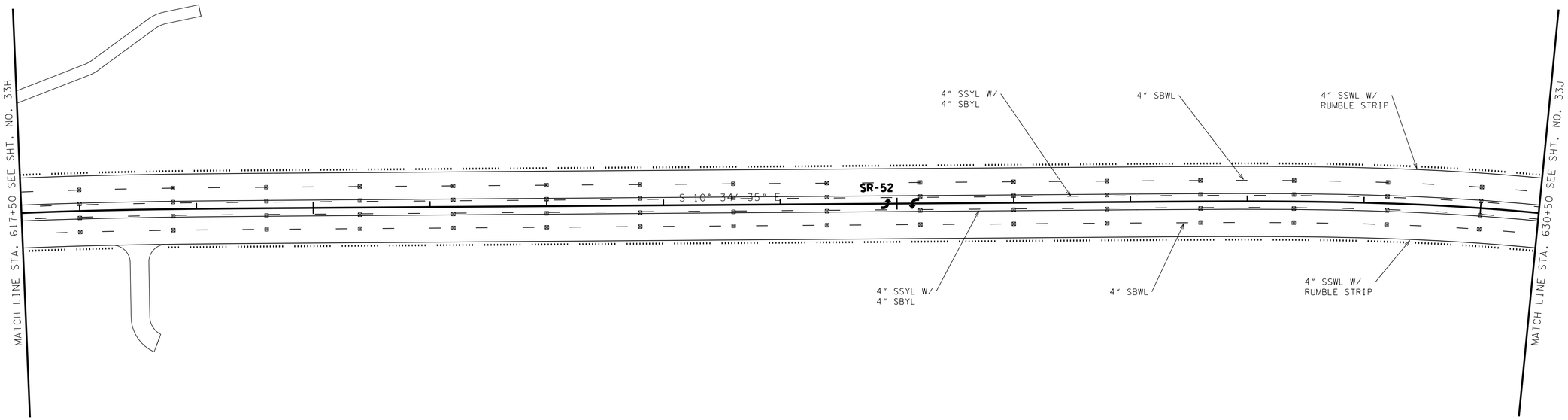
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33I

620

625

630



SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33J

140

S 18° 04' 53" W

S 14° 55' 17" W

LIMIT OF CONST.
142+50.00

635

640

145

SR-52 STA. 639+25.00 =
FAIRVIEW LN. STA. 147+31.84
N 757216.4583
E 2166290.9817

4" SSWL

4" DSYL

36 STOP

37 DEAD END

N 59° 42' 22" W

15' OF 24" STOP BAR
30' OFF TRAVEL WAY

SR-52 STA. 641+23.96 =
ROE LN. STA. 150+00.00
N 757050.9256
E 2166180.7718

4" SSWL W/
RUMBLE STRIP

4" SSYL W/
4" SBYL

4" SBWL

SR-52

100' STORAGE

4" SSWL W/
RUMBLE STRIP

4" SSYL W/
4" SBYL

4" SBWL

4" SSWL W/
RUMBLE STRIP

4" SSYL W/
4" SBYL

4" SBWL

4" SSWL

4" SSYL W/
4" SBYL

38 DEAD END

4" SBWL

N 38° 39' 22" W

4" SSWL

4" SBWL

4" DSYL

15' OF 24" STOP BAR
10' OFF TRAVEL WAY

STOP 39

4" SSWL W/
RUMBLE STRIP

MATCH LINE STA. 630+50 SEE SHT. NO. 33I

MATCH LINE STA. 643+50 SEE SHT. NO. 33K

N 10° 08' 39" E

CS 639+30.13

ST 643+25.13

150

LIMIT OF WORK
153+70.00

SC 631+00.74

155

LIMIT OF CONST.
153+00.00

SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
OWNERS
NO. 108423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 630+50 TO STA. 643+50

SCALE: 1"= 50'

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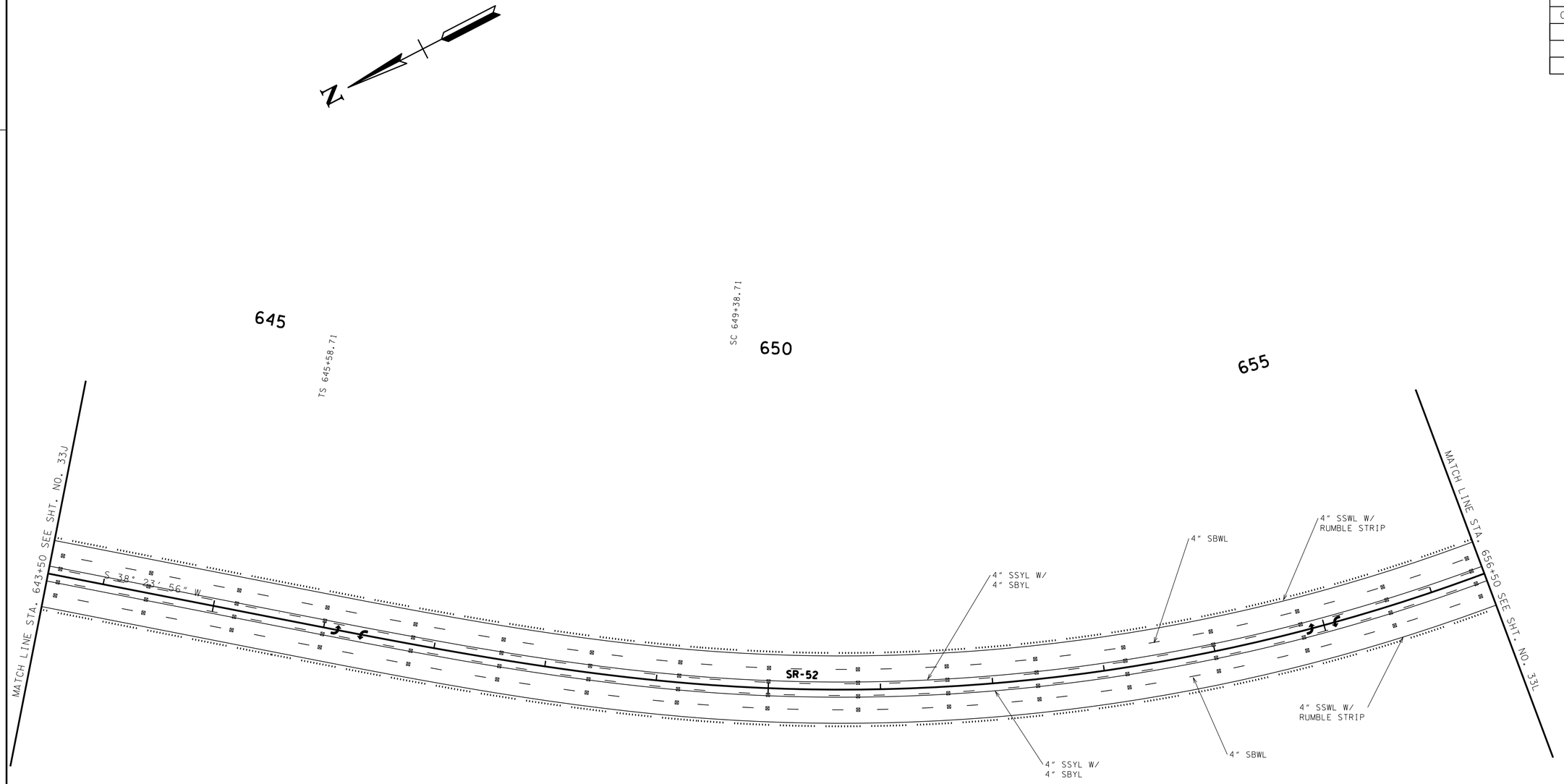
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33K



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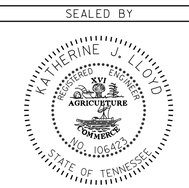
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50'

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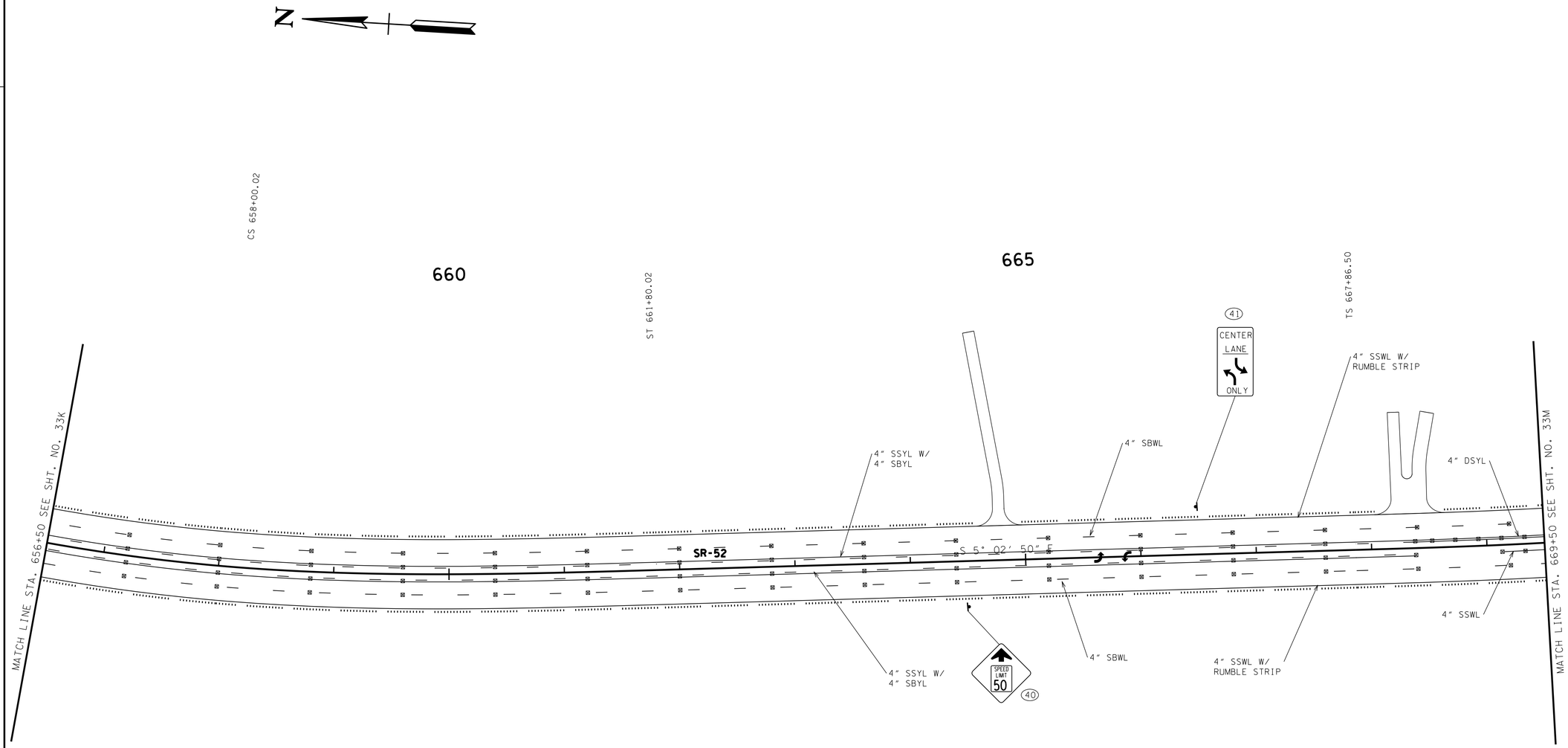
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33L



SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 108423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 656+50 TO STA. 669+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33M

(A) TO BE LOCATED AS DIRECTED BY THE ENGINEER. TYPICAL ALL W3-1 SIGNS LOCATED OUTSIDE CONST. LIMITS

SC 670+51.50

680

200

N

670

SR-52 STA. 680+11.94 =
TOWER HILL RD. STA. 170+00.00
N 753466.6250
E 2165921.8042

SR-52 STA. 670+65.99 =
ALLRED RD. STA. 202+74.56
N 754325.5643
E 2165547.9535

SR-52 STA. 673+81.62 =
HIDDEN VALLEY GOLF & COUNTRY
CLUB RD. STA. 160+00.00
N 754019.9093
E 2165625.2465

675

PT 679+22.47

MATCH LINE STA. 669+50 SEE SHT. NO. 33L

MATCH LINE STA. 682+50 SEE SHT. NO. 33N

170

20' OF 24" STOP BAR
10' OF TRAVEL WAY

(43) SPEED LIMIT 60

(44) STOP

(45) DEAD END

4" SSWL

4" DSYL

N 18° 49' 33" W

LIMIT OF CONST.
200+10.00

4" SBWL

4" SSYL W/
4" SBYL

4" SSWL

4" SSYL W/
4" SBYL

4" SSWL

4" SSYL W/
4" SBYL

4" SSWL

4" SBWL

4" DSYL

4" SSWL

4" SBWL

S 35° 09' 05" E
100' STORAGE

S 54° 55' 51" W

S 85° 57' 06" W

100' STORAGE

SR-52

4" SSWL W/
RUMBLE STRIP

4" SSWL

4" SSYL W/
4" SBYL

4" DSYL

4" SBWL

(42) SPEED LIMIT 50

N 13° 35' 06" W

(46) STOP

4" DSYL

16' OF 24" STOP BAR
10' OF TRAVEL WAY

(58) CENTER LANE ONLY

(47) (48)

(53) (54) (55) (56) (49) (50) (51) (52)

4" SSWL

160

4" SSWL

4" SBWL

4" SSYL W/
4" SBYL

4" SSWL

4" DSYL

24' OF 24" STOP BAR
10' OF TRAVEL WAY

(60) STOP

LIMIT OF CONST.
171+20.00

N 59° 59' 19" W

(59) (A)

PC 682+16.90

N 87° 37' 21" W

(57) (A)

LIMIT OF CONST.
164+75.00

165

SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50'

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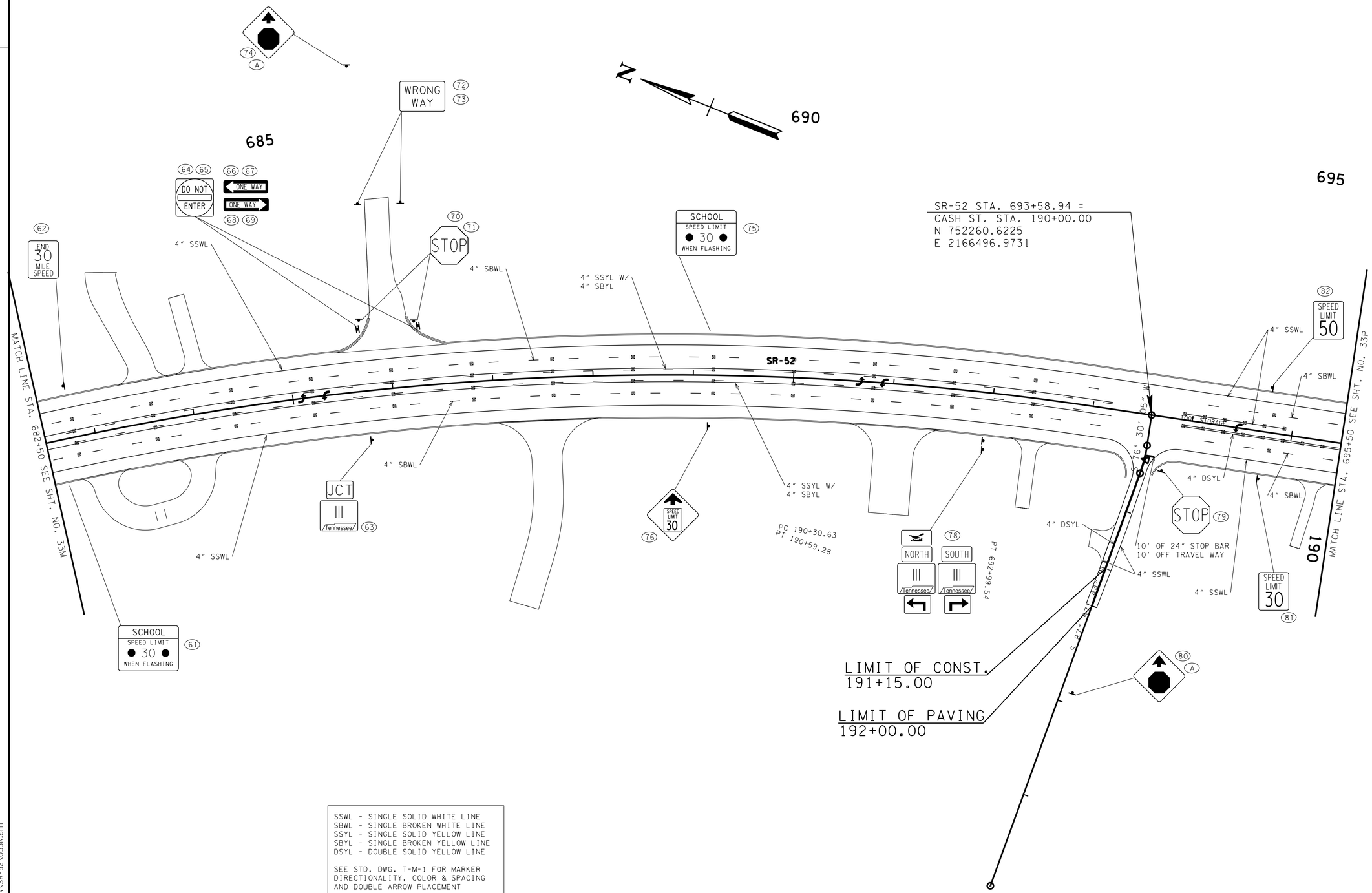
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33N

(A) TO BE LOCATED AS DIRECTED BY THE ENGINEER. TYPICAL ALL W3-1 SIGNS LOCATED OUTSIDE CONST. LIMITS

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION



SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 682+50 TO STA. 695+50

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	33P

WALKING TRACK AT DILLON POND SHALL BE PRESERVED IN IT'S PRESENT STATE THROUGHOUT ALL PHASES OF CONSTRUCTION

700

SR-111 STA. 217+94.30 =
SR52NCHURCH STA. 800+00.00
N 751204.9213
E 2166754.5121

220

MATCH LINE STA. 695+50 SEE SHT. NO. 33N

4" SSWL
4" SSYL W/ 4" SBYL
4" SBWL
4" SSWL W/ 4" SBYL
4" SSWL
4" SBWL
4" SDWL
4" SSWL
4" SSWL
4" DSYL
4" SSWL
4" SSWL
4" DSYL
4" SSWL
4" DSYL
4" SSWL
4" SSWL
4" DSYL
4" SSWL

S 13° 29' 55" E

595' STORAGE

315' STORAGE

100'

POT 704+46.39

POT 800+00.00

POT 802+50.00

800

LIMIT OF CONST.
219+75.00

67002-2233-64
END PROJ. NO. APD/NH-52(48) R.O.W.
STA. 704+46.39
N 751203.2127
E 2166750.8076

LIMIT OF PAVE
802+25.00

12' OF 24" STOP BAR
12' OF 24" STOP BAR
38' OF 24" STOP BAR
27' OF 24" STOP BAR
12' OF 24" STOP BAR
12' OF 24" STOP BAR
33' OF 24" STOP BAR
12' OF 24" STOP BAR

S 13° 18' 20" E

N 68° 00' 56" E

CENTER LANE ONLY (84)

WEST 52 Tennessee (86)

EAST 52 Tennessee | WEST 52 Tennessee (87) | H (88)

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

83A

83

LIVINGSTON
BYRDSTOWN
COOKEVILLE
85

86A

NORTH Tennessee | SOUTH Tennessee (89) | H (90)

67002-3233-64
END PROJ. NO. APD/NH-52(48) CONST.
STA. 704+46.39
N 751203.2127
E 2166750.8076

215

SR-111 STA. 217+90.22 =
SR-52 STA. 704+46.39
N 751203.2127
E 2166750.8076

SSWL - SINGLE SOLID WHITE LINE
SBWL - SINGLE BROKEN WHITE LINE
SDWL - SINGLE DOTTED WHITE LINE
SSYL - SINGLE SOLID YELLOW LINE
SBYL - SINGLE BROKEN YELLOW LINE
DSYL - DOUBLE SOLID YELLOW LINE

SEE STD. DWG. T-M-1 FOR MARKER DIRECTIONALITY, COLOR & SPACING AND DOUBLE ARROW PLACEMENT

SEE STD. DWG. T-M-4 FOR TURN LANE DETAILS AND ARROW PLACEMENT

N

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 106423

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

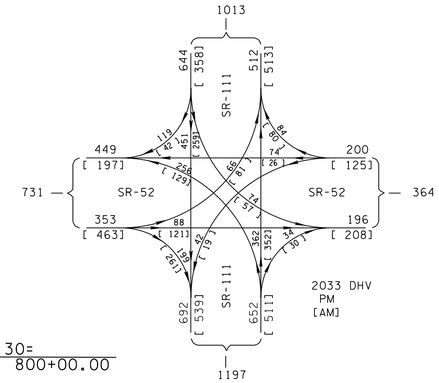
SIGNING AND PAVEMENT MARKING PLAN

STA. 695+50 TO STA. 704+50

SCALE: 1"= 50'

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\033P.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	APD/NH-52(48)	35



VOLUME DENSITY LOOP
285 FT. FROM STOP BAR

TYPE A

1" C (PVC)

SR-111

700

800

1" C (PVC)

TYPE B

220

PROPOSED SIGNAL POLE #2
STA. 703+32.00 OFF 71.80' LT.

1" C (PVC)

TYPE A

SR-111 STA. 217+94.30=
SR-52 N CHURCH STA. 800+00.00
N 751204.9213
E 2166754.5121

PROPOSED SIGNAL POLE #3
STA. 800+65.00 OFF 98.70' LT.

1B

1A

E1

1L

1

TYPE A

1" C (PVC)

2" C (PVC)

1" C (PVC)

1" C (PVC)

E3

3

3A

3

S 13° 29' 55" E

CELINA HIGHWAY/ SR-52 /ZOLLIE COFFER ROAD

ONLY

ONLY

S 13° 18' 40" E

SR-52 /N CHURCH ST

E4

4L

4A

4R

1" C (PVC)

TYPE A

2" C (PVC)

1" C (PVC)

2Ø2" C (PVC)

TYPE A

2" C (PVC)

2R

2L

E2

2A

2B

PROPOSED SIGNAL POLE #4
STA. 800+97.80 OFF 70.50' RT.

1" C (PVC)

TYPE B

216+00

215+00

1" C (PVC)

TYPE A

1" C (PVC)

SR-111

VOLUME DENSITY LOOP
285 FT. FROM STOP BAR

PROPOSED SIGNAL POLE #1
STA. 703+60.20 OFF 76.40' RT.

SR-111 STA. 217+90.22 =
SR-52 STA. 704+47.02
N 751203.2127
E 2166750.8076

SIGNAL SUPPORT POLE DATA						
POLE NO.	NORTHING	EASTING	GROUND ELEV. @ POLE	POLE TO POLE	ATTACHMENT HEIGHT	ATTACHMENT ELEV.
1	751269.801	2166656.252	1031.84	1 TO 2	29.50	1063.98
2	751331.815	2166793.776	1031.78	2 TO 3	31.10	1065.63
3	751164.392	2166865.526	1031.99	3 TO 4	30.60	1065.91
4	751093.517	2166708.423	1033.04	4 TO 1	31.20	1066.24

NOTE: POLE LENGTHS MUST BE FIELD VERIFIED PRIOR TO FABRICATION.

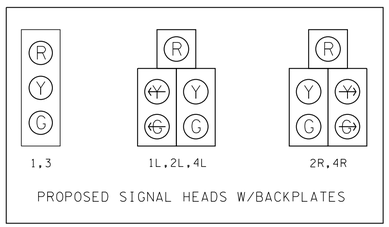
STREET NAME SIGN

*1A,1B,2A,2B,3A,4A

*SEE SHT.35B FOR DETAILS

E1,E2,E3,E4

EMERGENCY VEHICLE PREEMPTION DETECTORS



PROPOSED SIGNAL HEADS W/BACKPLATES

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000020 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNAL LAYOUT
SR-52 (CELINA HWY.)
AT
SR-111

SCALE: 1"=30 '

10/12/2015 8:47:21 AM
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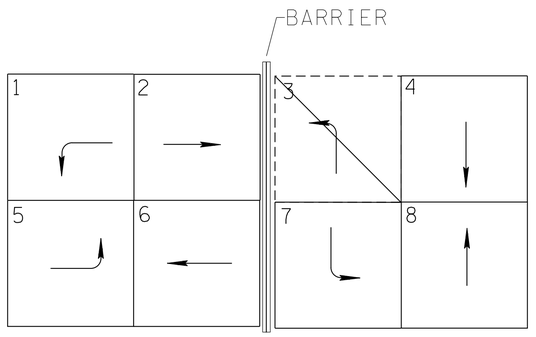
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	APD/NH-52(48)	35A



NEMA EIGHT PHASE DESIGNATIONS

ACTIVE PHASE

INACTIVE PHASE (NOT USED)

- OPERATION IS DUAL ENTRY MODE, FULL SKIP CAPABILITY
- SINGLE DIRECTION, LAGGING LEFT TURN PHASES ARE NOT ALLOWED
- ALL SIGNAL DISPLAYS AND CLEARANCES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

BASIC OR SEMI - ACTUATED TIMING (SECS)

PHASE	INITIAL INTERVAL	VEHICLE INTERVAL	MAX I	MAX II	CLEARANCE		PEDESTRIAN		RECALL TO	MEMORY POSITION (1)	LEFT TURN OPERATION (2)
					YELLOW	ALL RED	WALK	FLASHING DONT WALK			
1	7.0	2.0	8.0	-	4.0	3.0	-	-	-	NL	P+P
4	10.0	2.0	30.5	-	4.5	2.0	-	-	-	L	PERM
5	7.0	2.0	8.5	-	4.0	2.5	-	-	-	NL	P+P
7	7.0	2.0	7.5	-	4.0	2.5	-	-	-	NL	P+P
8	10.0	2.0	16.5	-	4.5	2.0	-	-	-	L	PERM

(1) NL = NONLOCK
L = LOCK

(2) PERM = PERMITTED
PROT = PROTECTED
P + P = PROT/PERM

VOLUME - DENSITY TIMING (SECS)

PHASE	INITIAL INTERVAL	ADDED INITIAL PER ACTUATION	PASSAGE TIME	MINIMUM GAP	TIME BEFORE REDUCTION	TIME TO REDUCE	MAX I	MAX II	CLEARANCE		PEDESTRIAN		RECALL TO	MEMORY POSITION (1)
									YELLOW	ALL RED	WALK	FLASHING DONT WALK		
2,6	15.0	2.3	4.3	4.3	20.0	10.0	22.0	-	3.5	2.5	-	-	MIN	L
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

THESE TIMINGS ARE INITIAL AND MAY BE ADJUSTED BY THE CONTRACTOR BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION.

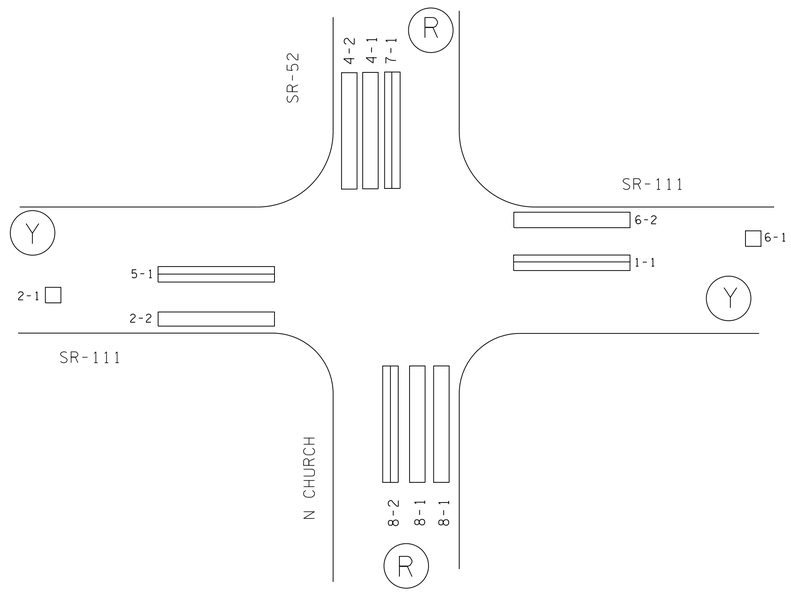
LOOP AND AMP ASSIGNMENTS

	LOOP #	VEHICLE DETECT #	LOOP LENGTH	AMP MODE	AMP. FEATURE TIMING(SEC)	ASSOC. Ø
*	1-1	1	1@50'	PRES		1
	2-1	1	1@6'	PULSE		2
	2-2	1	1@50'	PRES	5 SEC DELAY	2
	4-1	2	1@50'	PRES		4
	4-2	2	1@50'	PRES	5 SEC DELAY	4
*	5-1	1	1@50'	PRES		5
	6-1	3	1@6'	PULSE		6
	6-2	3	1@50'	PRES	5 SEC DELAY	6
*	7-1	2	1@50'	PRES		7
	8-1	3	2@50'	PRES		8
*	8-2	3	1@50'	PRES		8

* QUADRAPOLE LOOP

- ALL LOOPS ARE 6' IN WIDTH, CENTERED IN TRAFFIC LANE. REFER TO STD. DWG. T-SG-3 FOR NUMBER OF TURNS FOR VARIOUS LOOP LENGTHS.
- LOOP WIRE CONNECTIONS SHALL BE WIRED TO PROVIDE THE APPROPRIATE INDUCTANCE AS REQUIRED BY STD. DWG. T-SG-3.

DETECTION LOOP DIAGRAM



FLASHING OPERATION (Y) OR (R)

DETECTION LOOP NUMBERING

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

SR-52 INTERSECTION AT SR-111/ N CHURCH

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASING, TIMING, DETECTOR ASSIGNMENT

EIGHT PHASE

11/12/2015 8:49:55 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	APD/NH-52(48)	35B

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS
DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE		COPY		SHIELD	ARROW	SIGN FACE			REMARKS
			LENGTH	HEIGHT	CAPITAL	LOWER CASE			COPY	BACKGROUND	MATERIAL	
1A	Church St → D3-1(MOD)	35	60"	18"	8" / 6"	6" / 4"		TYPE "A"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	ITEM NO. 713-15.40 FOR SUSPENDED SIGNS USE 20% SPACING FOR LETTERING
1B	← Celina Hwy D3-1(MOD)	35	60"	18"	8" / 6"	6" / 4"		TYPE "A"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	
2A	Celina Hwy → D3-1(MOD)	35	60"	18"	8" / 6"	6" / 4"		TYPE "A"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	
2B	← Church St D3-1(MOD)	35	60"	18"	8" / 6"	6" / 4"		TYPE "A"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	
3A, 4A	Bradford/Hicks Dr D3-1	35	78"	18"	8" / 6"	6" / 4"			WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	

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NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNAL SIGN DETAIL SHEET

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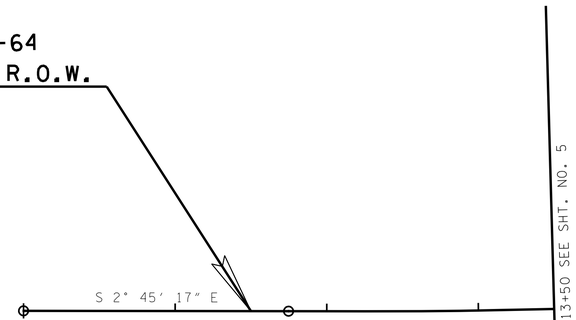
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. ——

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36

510

67002-1233-64
BEGIN PROJ. NO. APD-52(48) R.O.W.
STA. 511+50.00
N 766838.8851
E 2160310.3160



NOTE: NO BORINGS WERE TAKEN
IN THIS SEGMENT OF THE ROADWAY

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA._511+50 TO STA._513+50

SCALE: 1"=_50'

8/5/2014 1:29:08 PM
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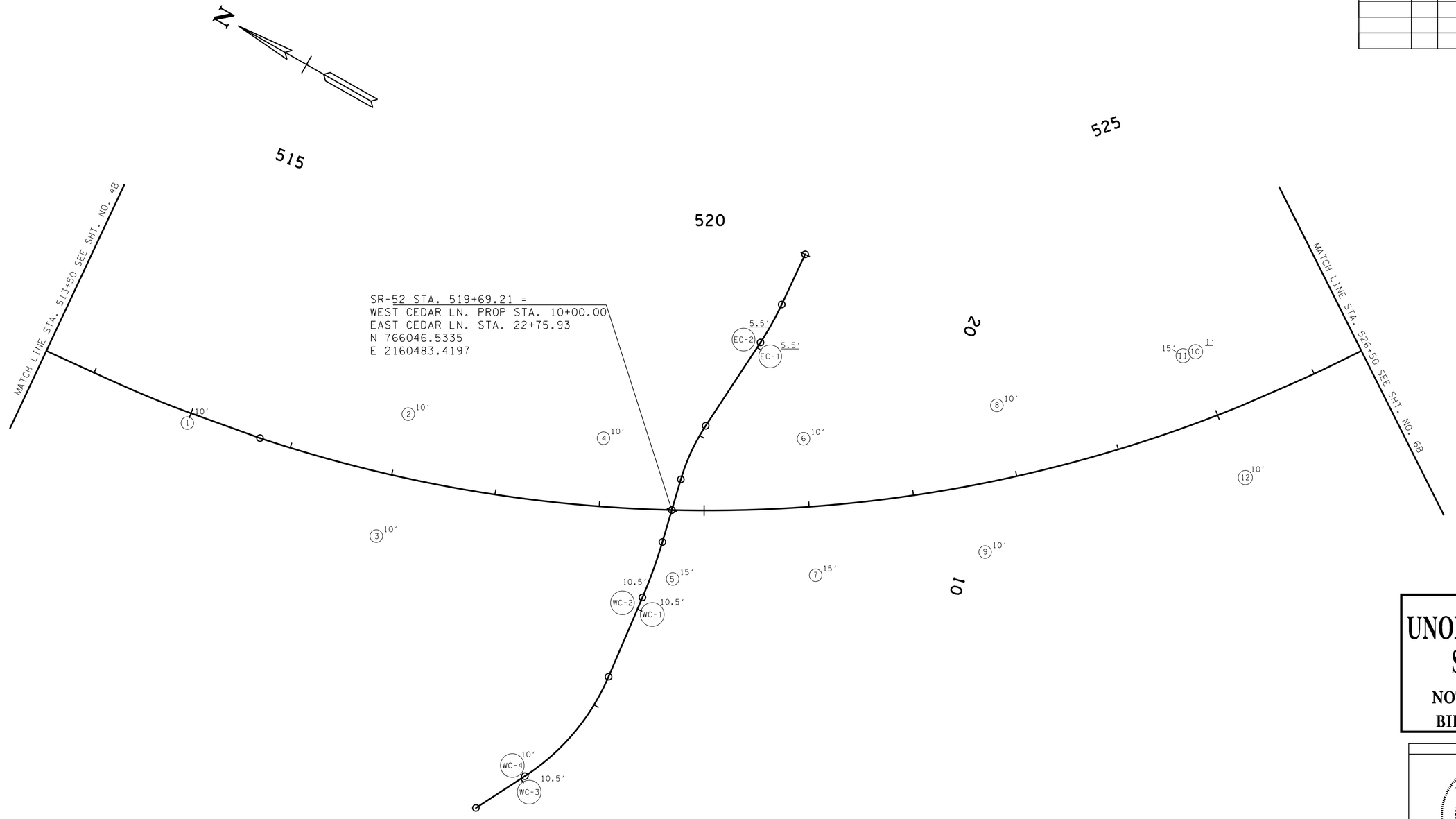
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. ——

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36A



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JONES
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 103556
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA._513+50 TO STA._526+50

SCALE: 1"=_50'

8/1/2014 11:40:07 AM
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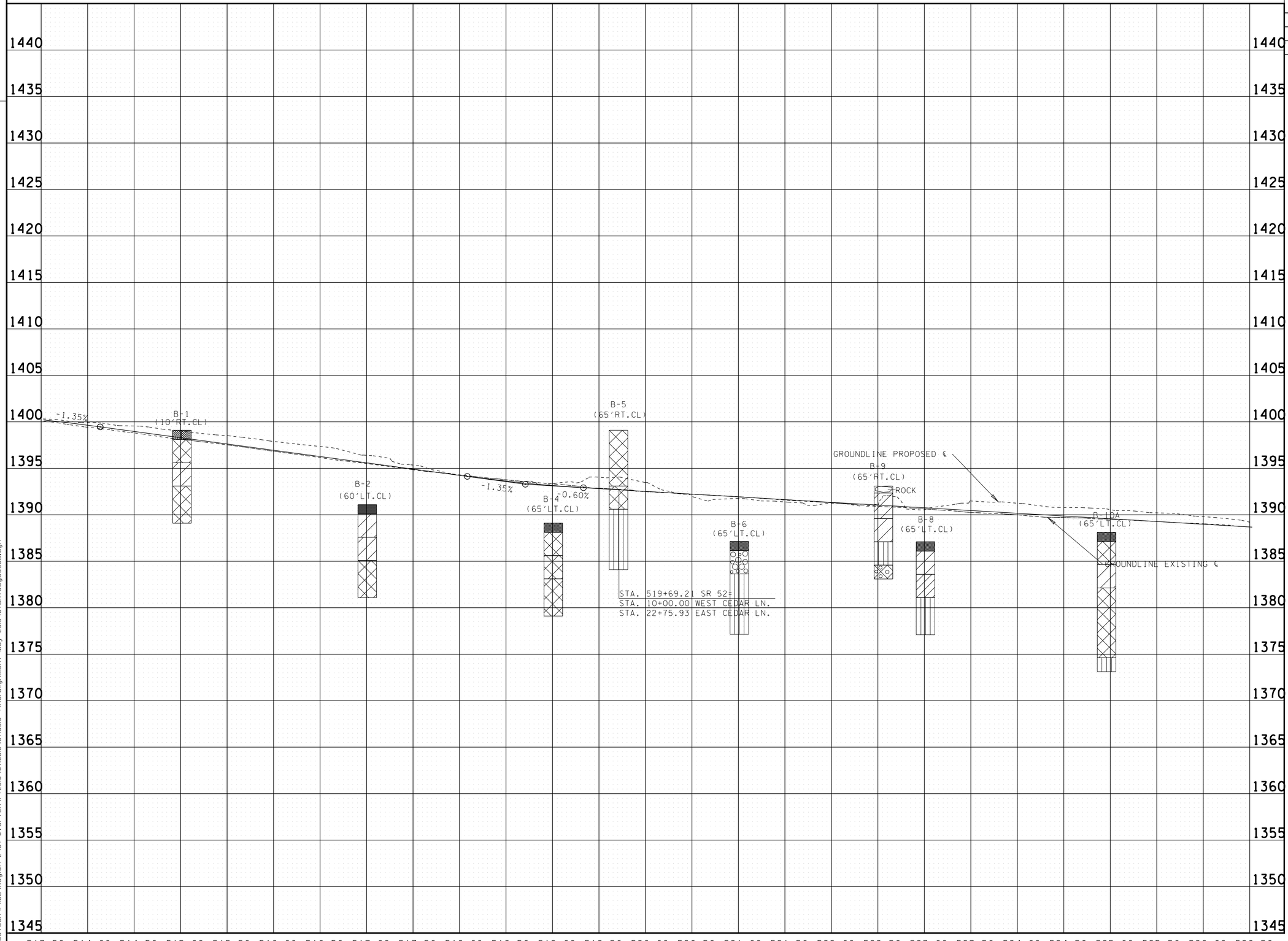
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36B



ASPHALT AND BASESTONE
LEAN CLAY
FAT CLAY WITH SAND
SANDY SILT
GRAVEL
SAND WITH SILT
GRAVELLY CLAY
CLAYEY SAND
LEAN CLAY WITH SAND

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 513+50 TO STA. 526+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 11:41:07 AM
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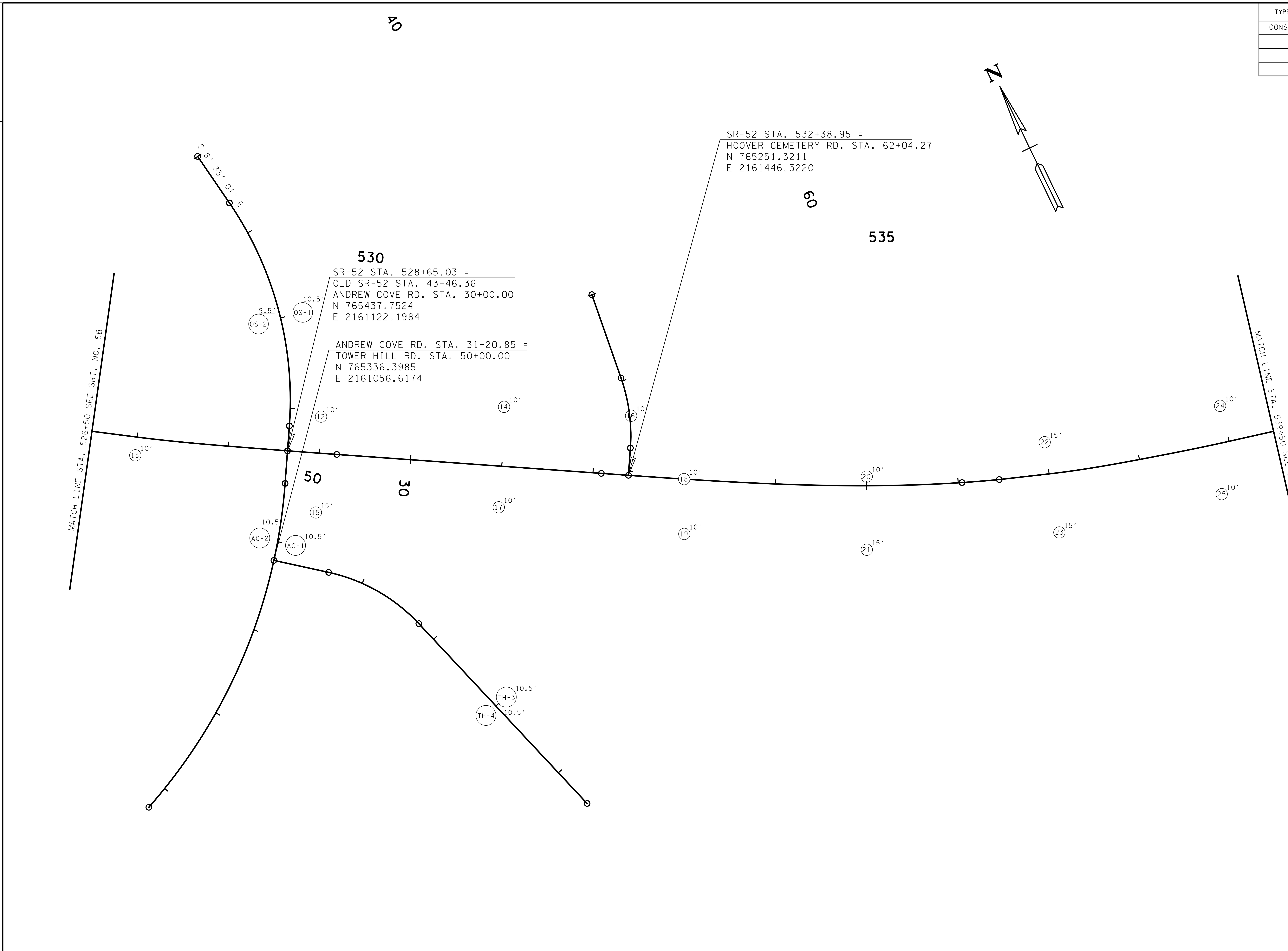
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36C



UNOFFICIAL SET NOT FOR BIDDING

SEALED BY

ROBERT JOWERS REGISTERED ENGINEER STATE OF TENNESSEE

TENNESSEE D.O.T. DESIGN DIVISION

FILE NO. ___

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 526+50 TO STA. 539+50

SCALE: 1"=50'

8/1/2014 11:42:16 AM
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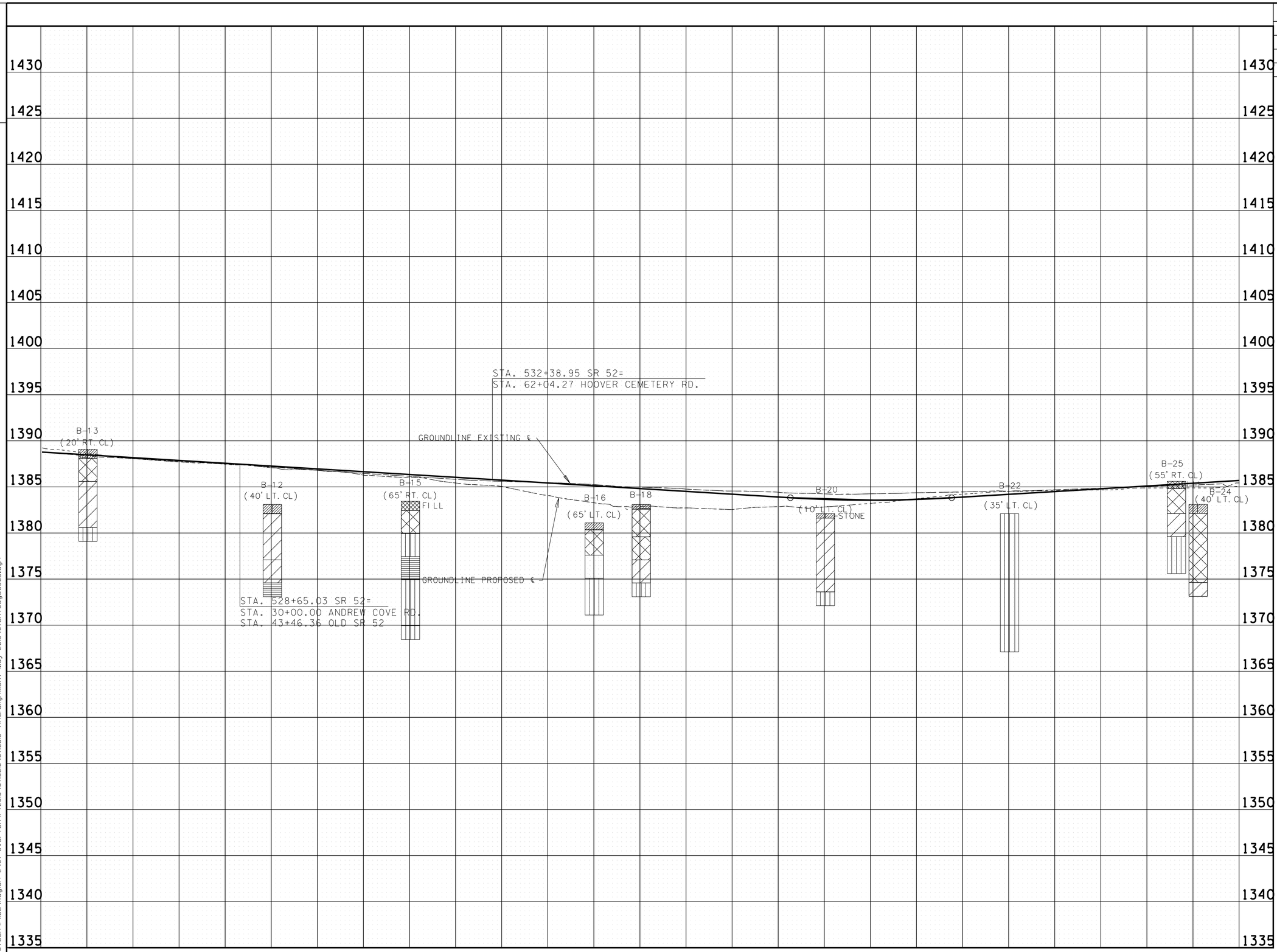
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36D



ASPHALT AND BASESTONE

LEAN CLAY

FAT CLAY WITH SAND/SILT

SANDY SILT

ONE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103006
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 526+50 TO STA. 539+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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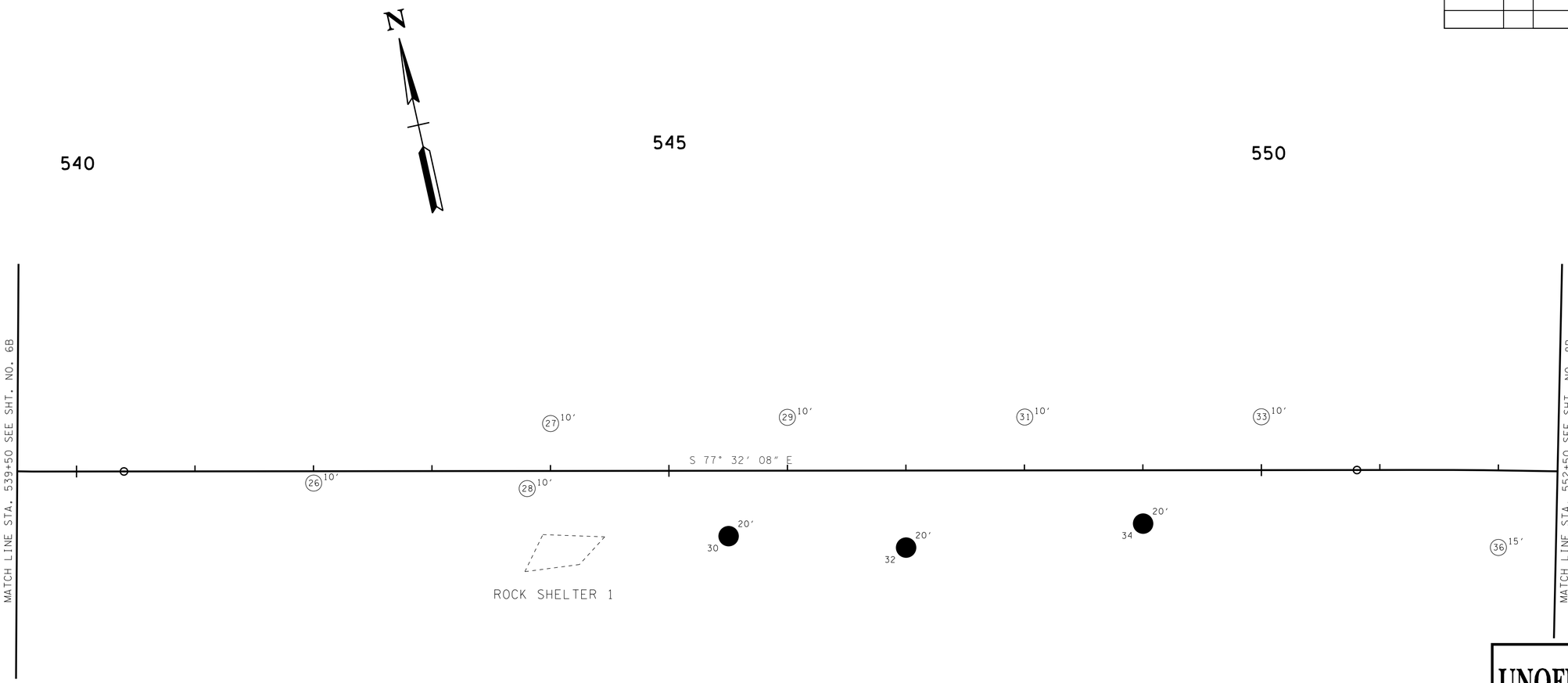
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36E



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ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 109506

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50'

5/1/2014 11:45:07 AM
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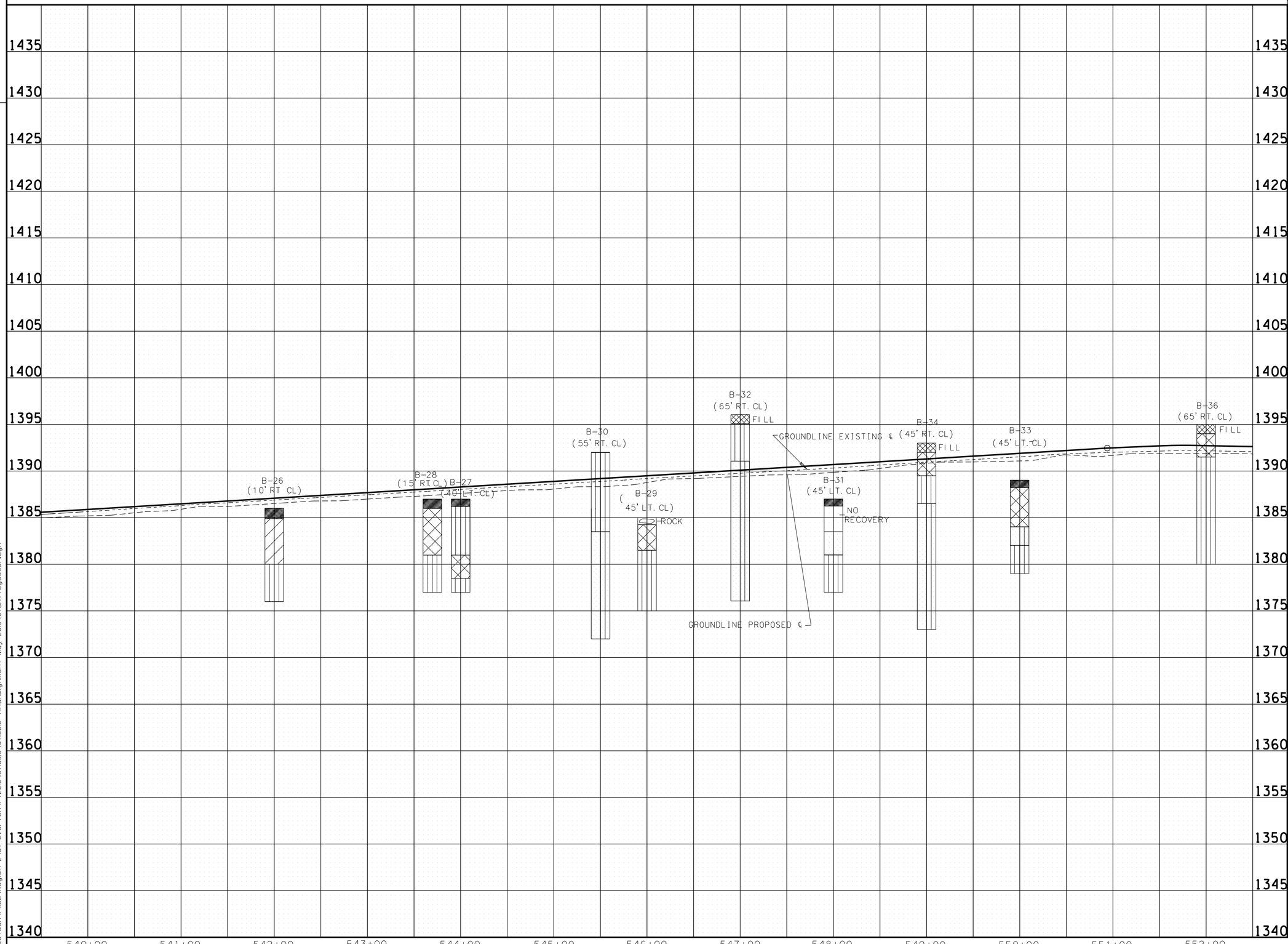
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36F



ASPHALT AND BASESTONE

LEAN CLAY

FAT CLAY WITH SAND/SILT

CLAYEY SAND, SILT WITH WEATHERED SANDSTONE

WEATHERED SANDSTONE

SANDSTONE, LIGHT GRAY

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
TENNESSEE DEPARTMENT OF AGRICULTURE
COMMISSIONER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 539+50 TO STA. 552+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36G

555

560

565

N

SR-52 STA. 561+76.14 =
TOM SMITH RD. STA. 72+66.01
N 764284.5478
E 2164185.1421

TS-2 10′
TS-1 10′

35 10′
37 10′
38 10′
39 6′
40 10′
41 5.5′
42 15′
43 5′
44 15′
45 10′
46 15′

MATCH LINE STA. 552+50 SEE SHT. NO. 7B

MATCH LINE STA. 565+50 SEE SHT. NO. 9B

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
GAMMERDGE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50′

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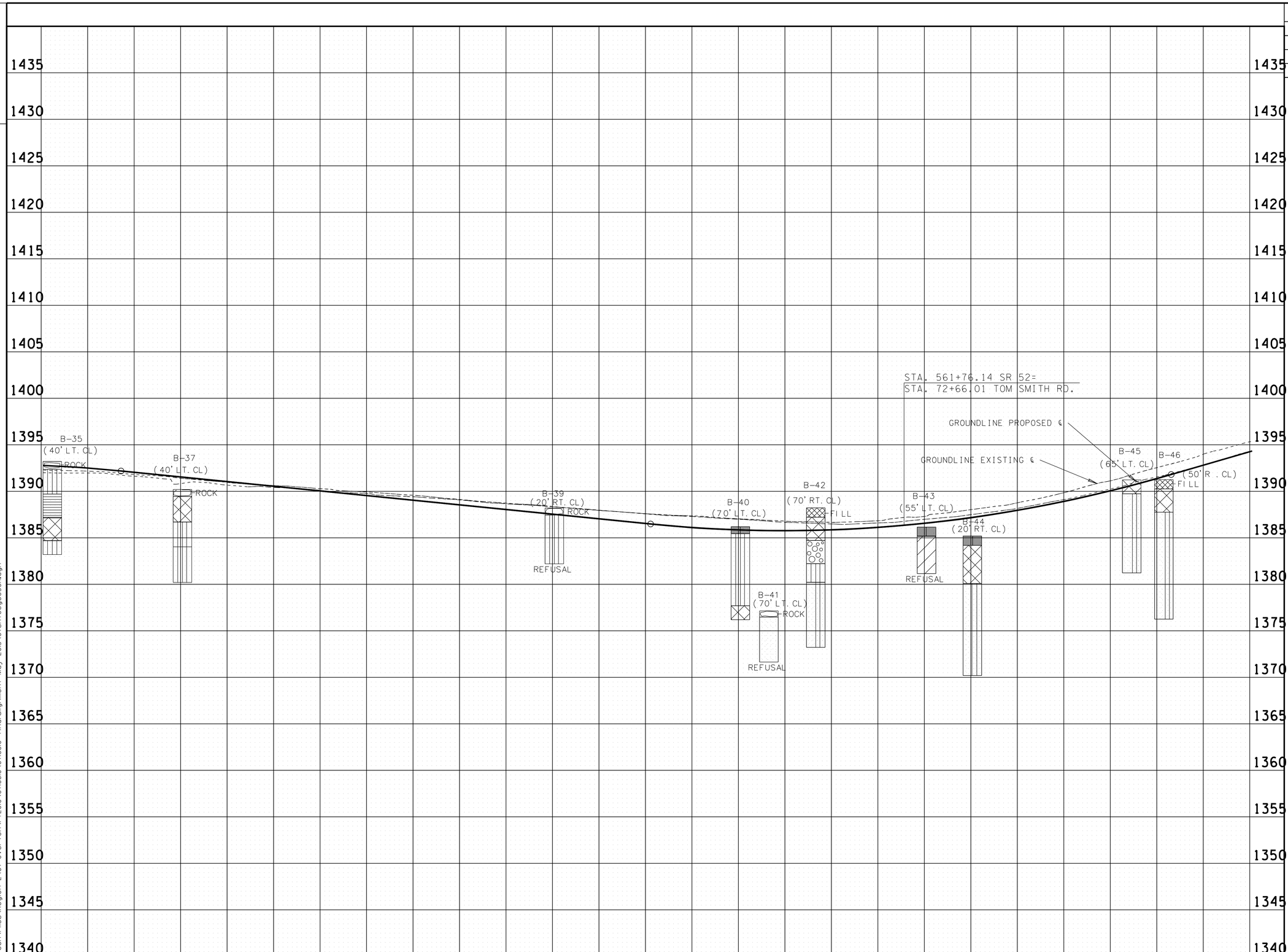
N:\Geotech\Files\Region 2\67-Overton\FY2010\671680\671680 final alignment May 2013\67sht+8bgeo36G.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36H



ASPHALT AND BASESTONE

LEAN CLAY

FAT CLAY WITH SAND/SILT

SANDY SILT

GRAVEL

WEATHERED SHALE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 552+50 TO STA. 565+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 11:48:20 AM
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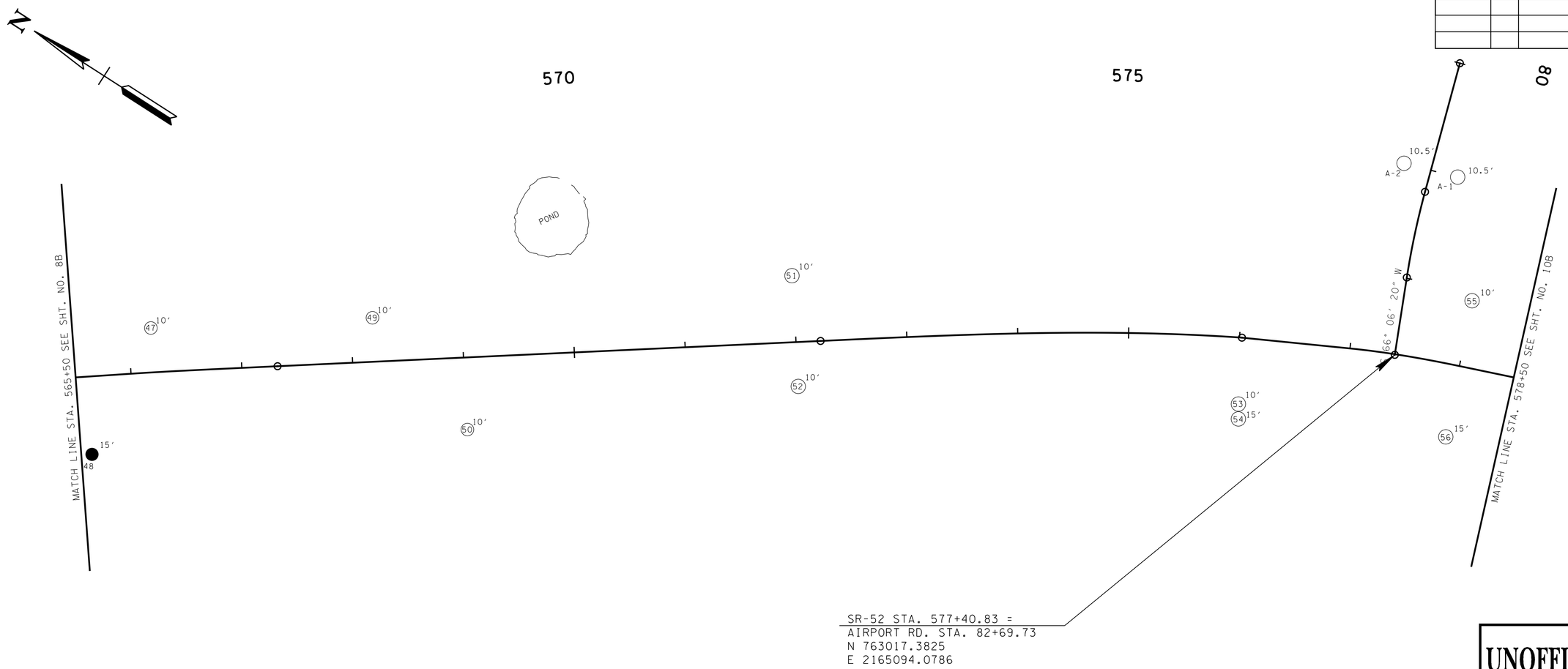
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36J



SR-52 STA. 577+40.83 =
AIRPORT RD. STA. 82+69.73
N 763017.3825
E 2165094.0786

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JONES
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
100996
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

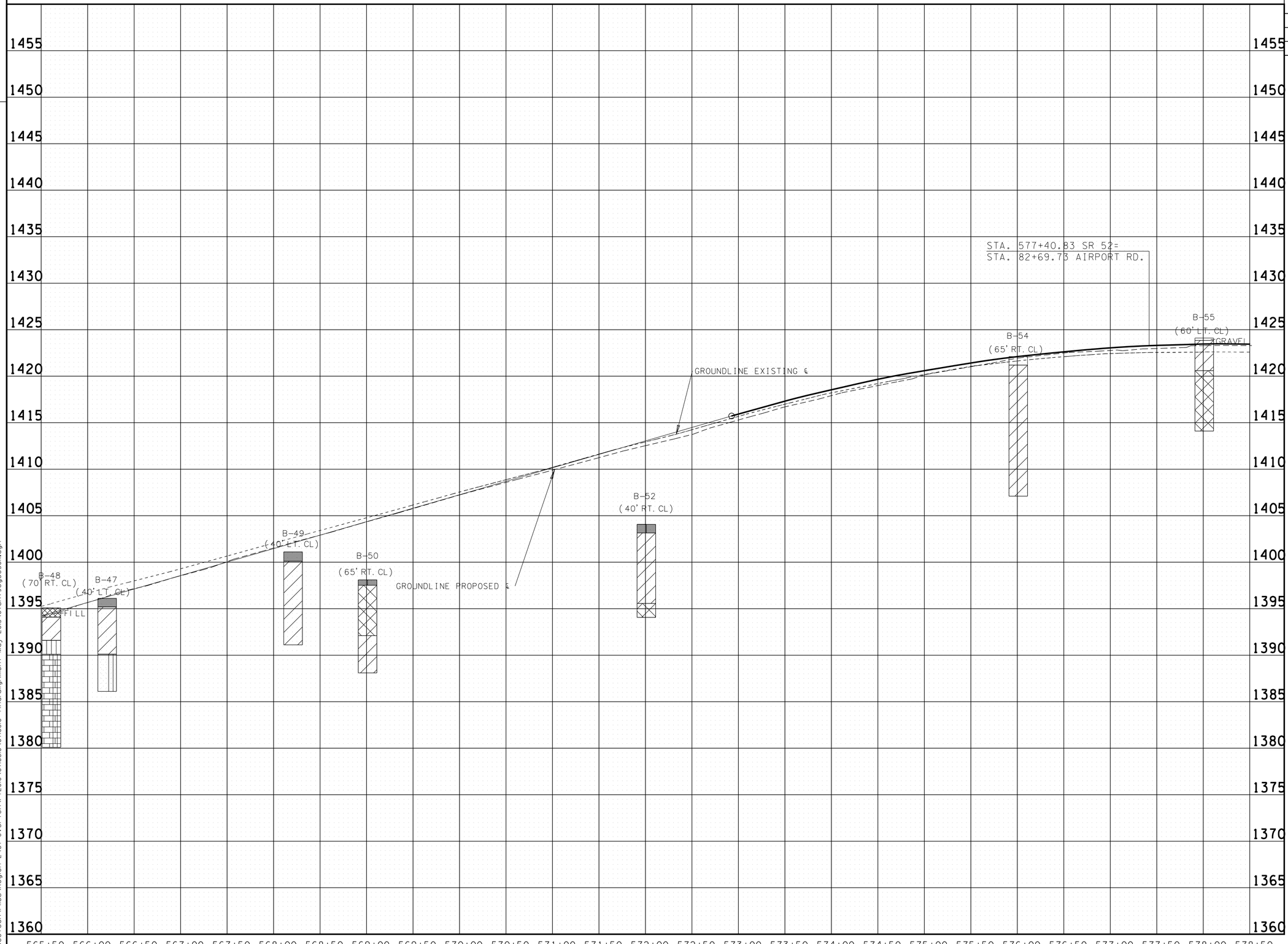
STA. 565+50 TO STA. 578+50

SCALE: 1"= 50'

5/1/2014 11:49:17 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\671680\671680 final alignment May 2013\67sht19pgeo36J.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36K



ASPHALT AND BASESTONE

LEAN CLAY

FAT CLAY WITH SAND/SILT

SANDY SILT

SANDSTONE HIGHLY FRACTURED

LIMESTONE/SANDSTONE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
CONTRACT
NO. 102006
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

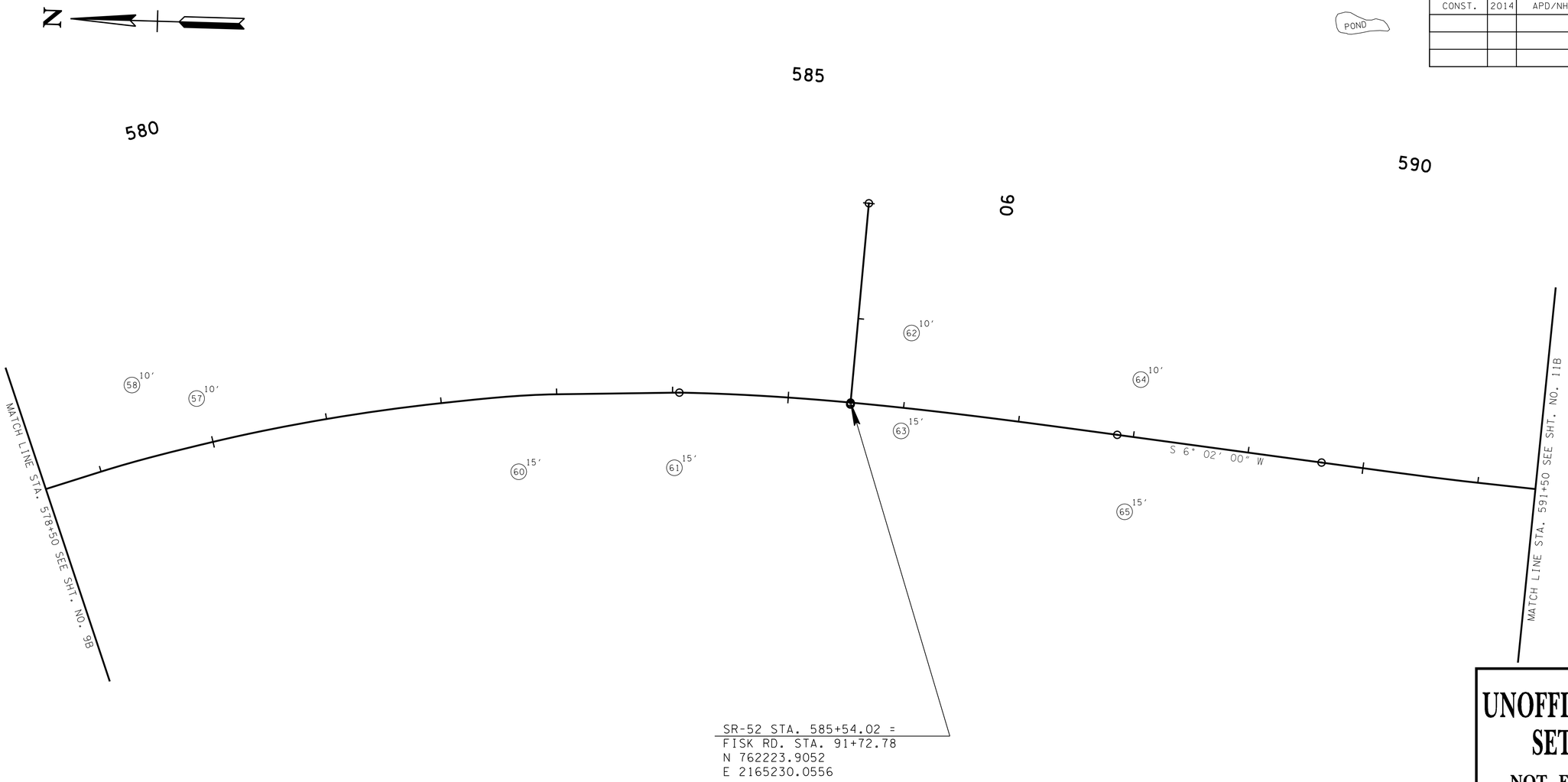
SOILS

STA. 565+50 TO STA. 578+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 11:50:14 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168\0\67168l0 final alignment May 2013\67sh19cgeo36K.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36L



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 102355

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

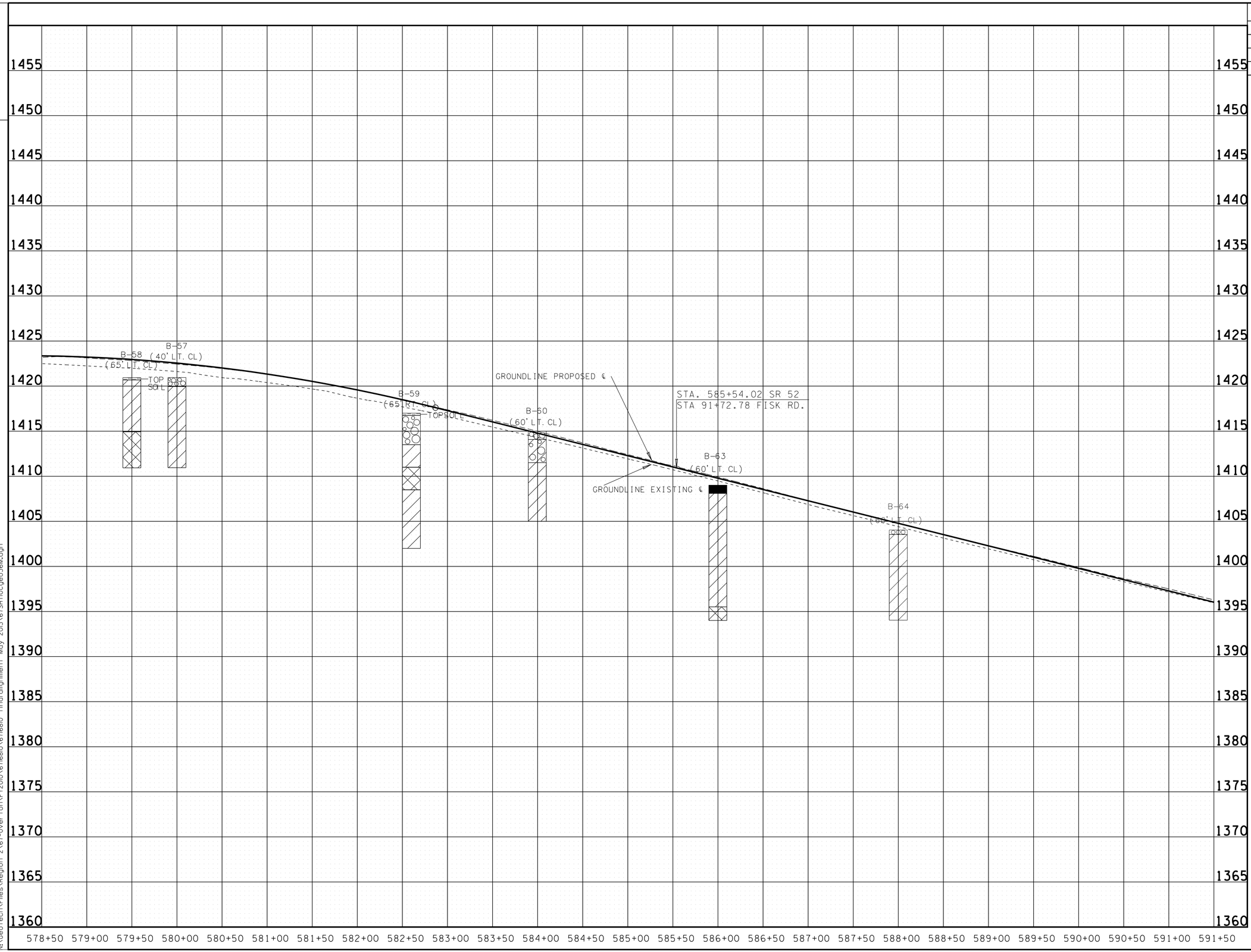
STA. 578+50 TO STA. 591+50

SCALE: 1"=50'

8/1/2014 11:53:17 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168101\67168l0 final alignment May 2013\67sh+10bgeo36L.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36M



ASPHALT AND BASESTONE

LEAN CLAY

FAT CLAY WITH SAND/SILT

GRAVEL

FAT CLAY WITH GRAVEL

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 102006

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

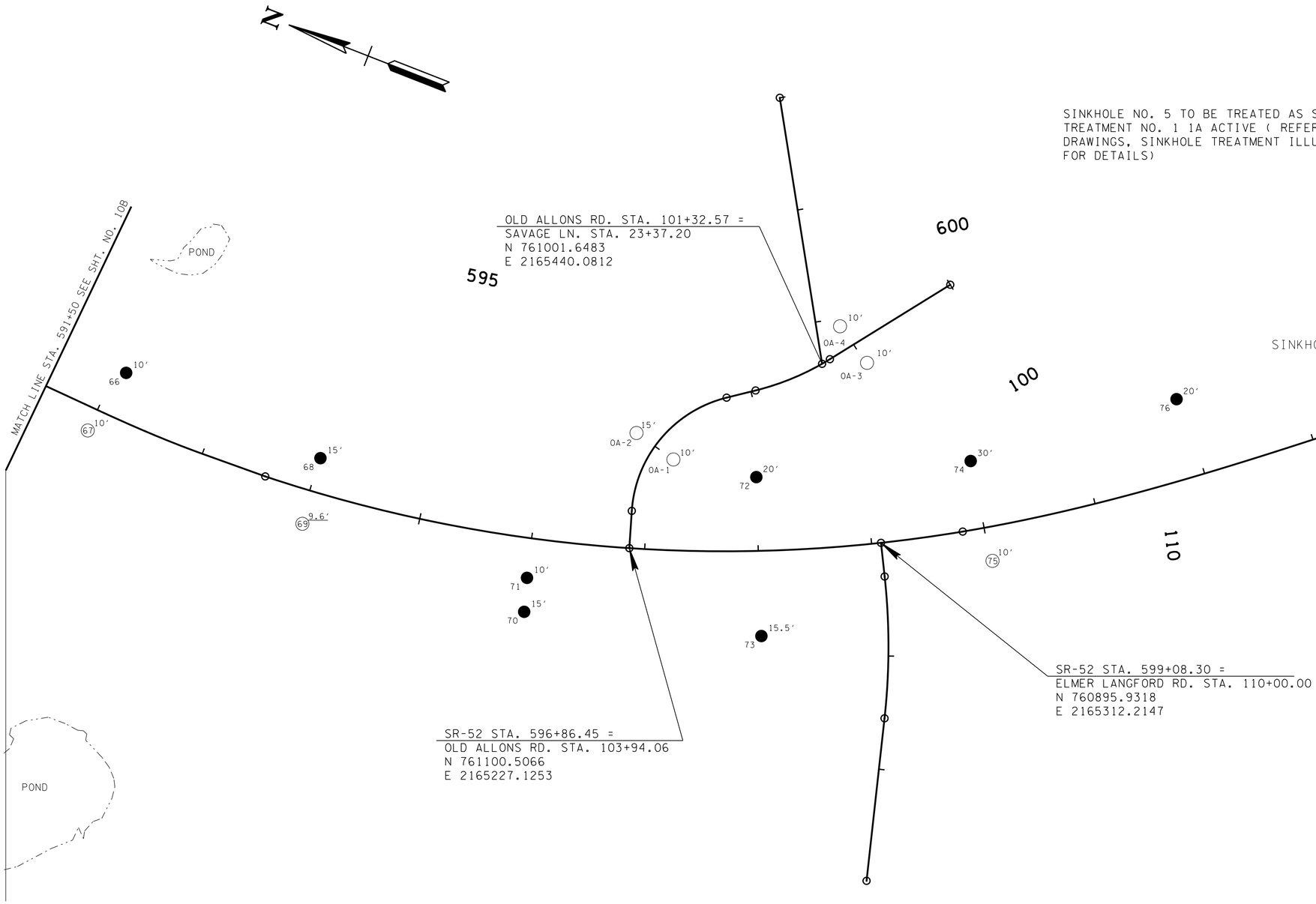
STA. 578+50 TO STA. 591+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014 11:54:10 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168101\67168101 final alignment May 2013\67SHT10Cgeo36M.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36N

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



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
No. 103566
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

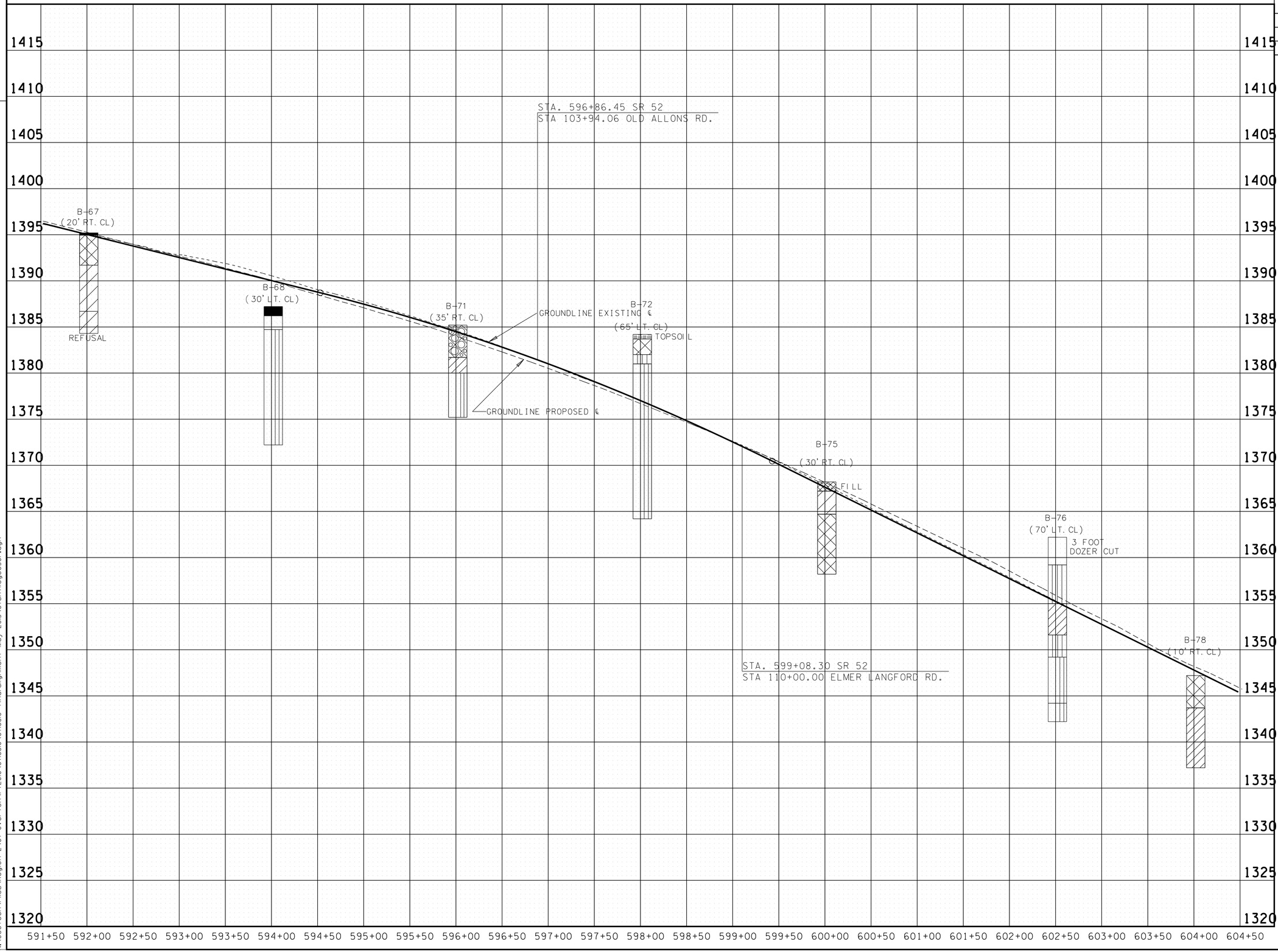
STA. 591+50 TO STA. 604+50

SCALE: 1"= 50'

8/1/2014 11:54:58 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168101\67168101 final alignment May 2013\67sht1lbgeo36N.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36P



ASPHALT AND BASESTONE

LEAN CLAY

FAT CLAY WITH SAND/SILT

SANDY AND SILT

SAND WITH SILT

CLAY WITH GRAVEL

SANDSTONE HIGHLY FRACTURED

ED

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103506
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

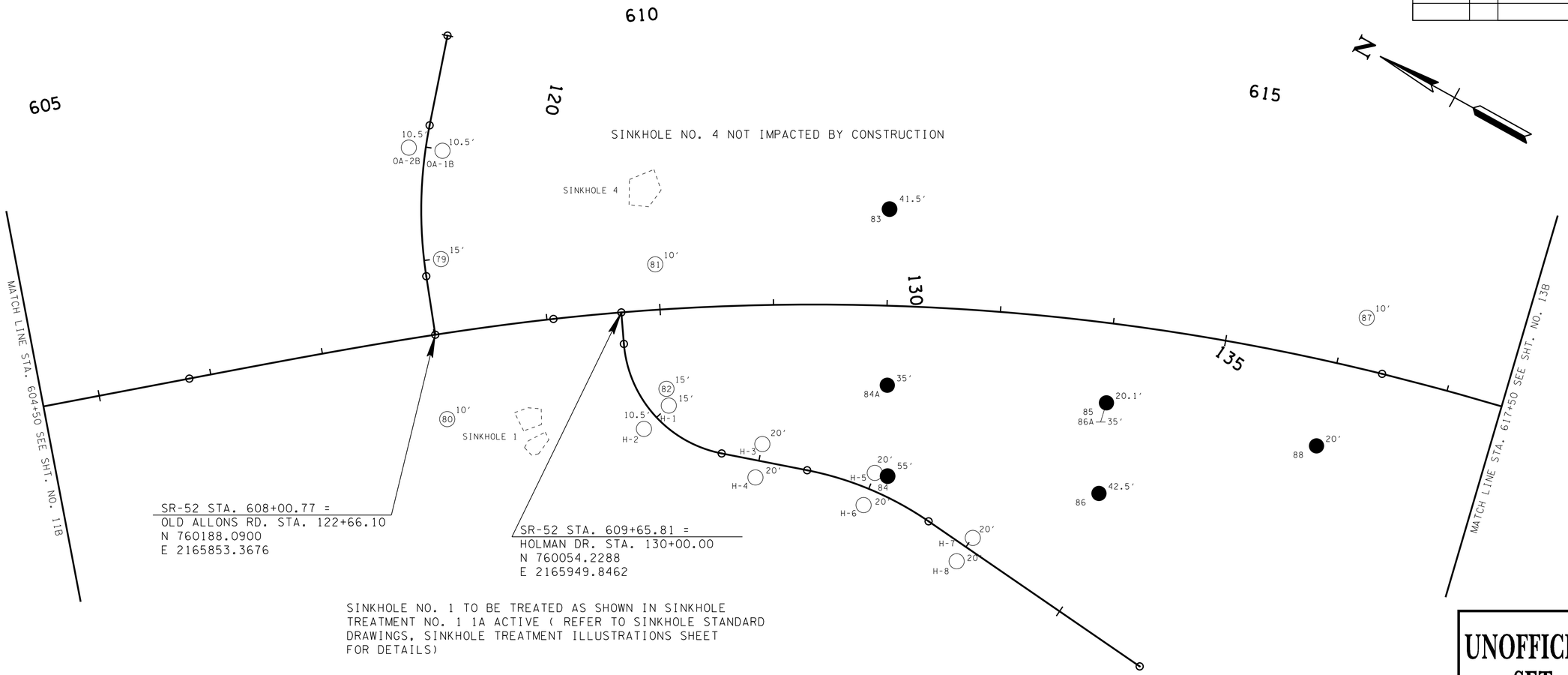
STA. 591+50 TO STA. 604+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 11:55:49 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\671680\671680 final alignment May 2013\67sht1lcgeo36P.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	360



SINKHOLE NO. 1 TO BE TREATED AS SHOWN IN SINKHOLE TREATMENT NO. 1 1A ACTIVE (REFER TO SINKHOLE STANDARD DRAWINGS, SINKHOLE TREATMENT ILLUSTRATIONS SHEET FOR DETAILS)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103096
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

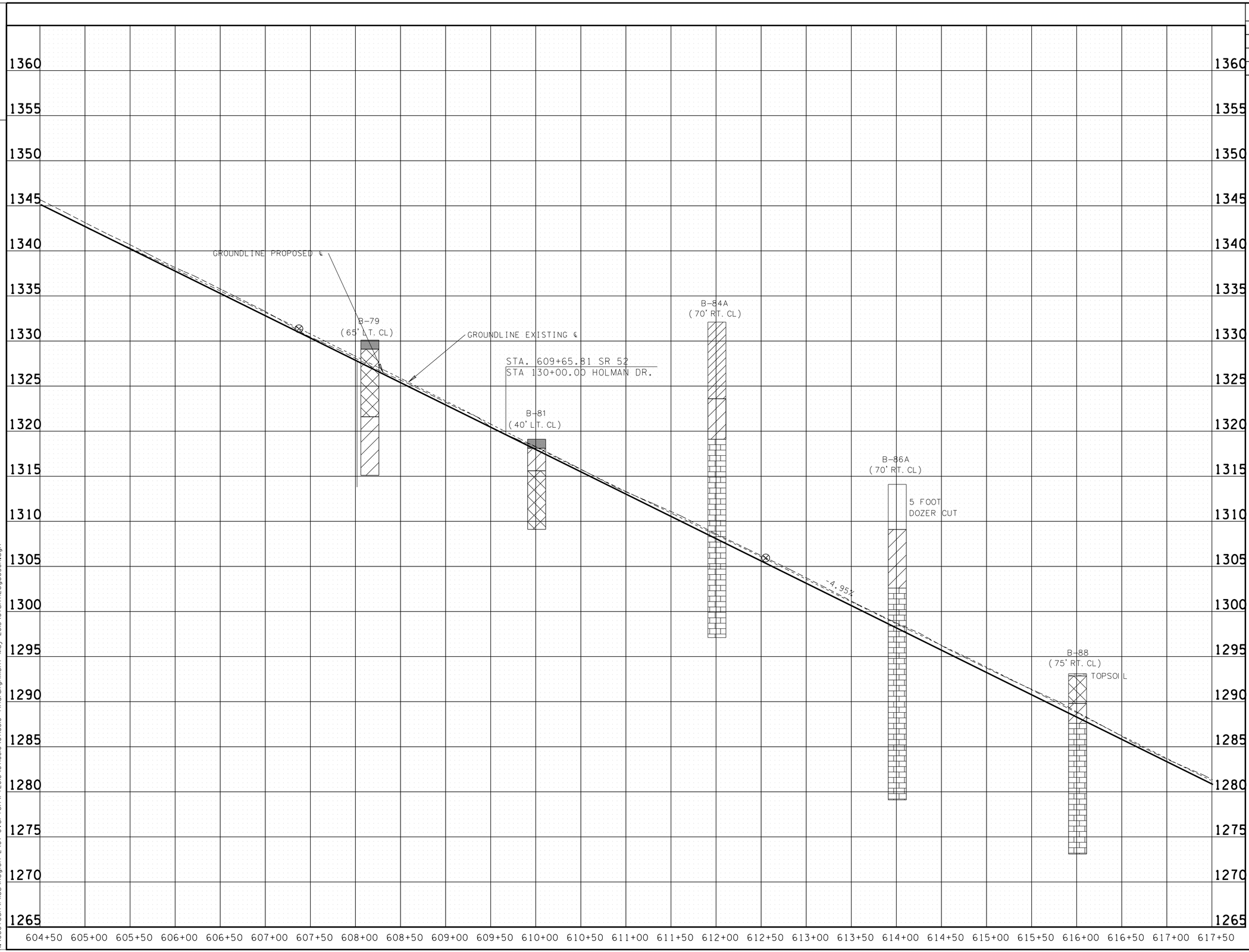
STA. 604+50 TO STA. 617+50

SCALE: 1"= 50'

8/1/2014 11:56:34 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168101\67168101 finalalignment May 2013\67sht12bgeo360.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36R



ASPHALT AND BASESTONE

LEAN CLAY

FAT CLAY WITH SAND/SILT

SAND

GRAVEL

SAND WITH SILT

CLAYEY SAND

WEATHERED SANDSTONE W/ SAND

SANDSTONE HIGHLY

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 604+50 TO STA. 617+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 11:57:25 AM
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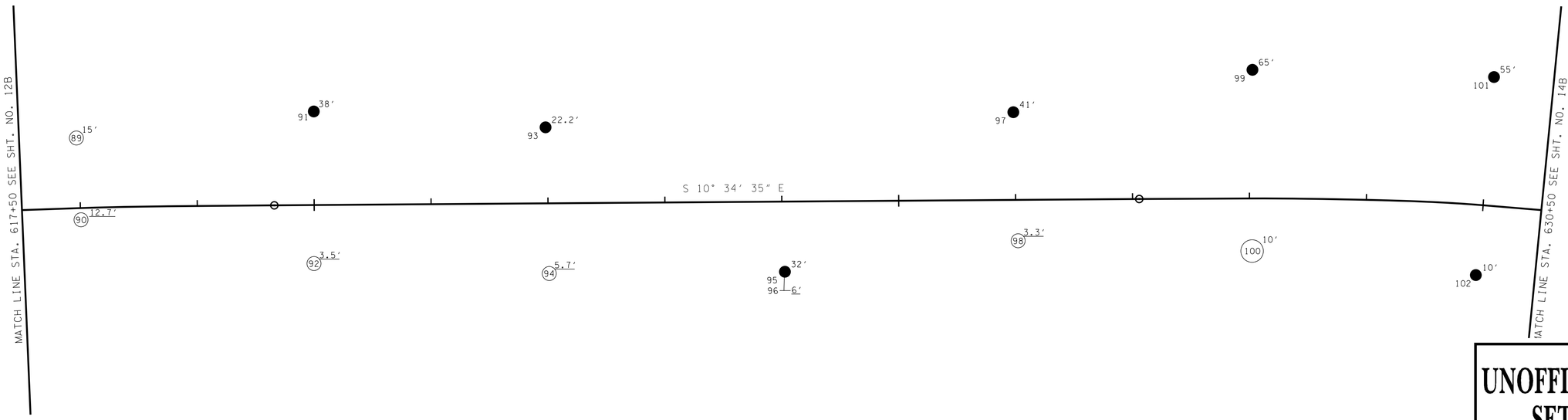
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36S

620

625

630



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

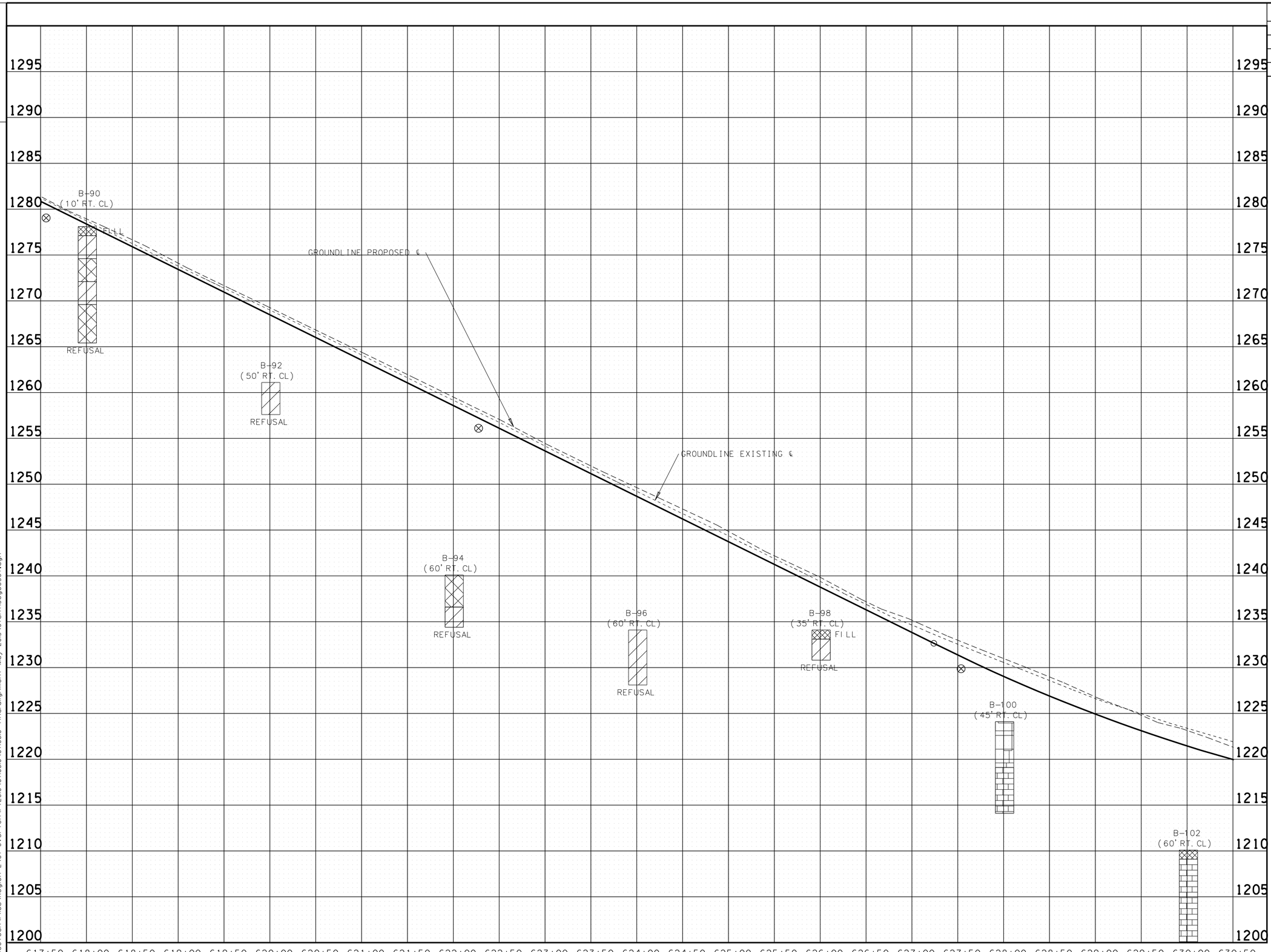
STA. 617+50 TO STA. 630+50

SCALE: 1"= 50′

8/1/2014 11:58:09 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168\0\67168l0 finalalignment May 2013\67sh+13bgeo36S.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36T



LEAN CLAY

FAT CLAY WITH SAND/SILT

LIMESTONE FILL W/ TRACE OF FAT CLAY

LIMESTONE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
No. 109295
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 617+50 TO STA. 630+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 11:58:58 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\671681O\671681O final alignment May 2013\67sht13cgeo36T.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36U

140

145

150

155

635

640

N

20′ FV-1
10′ FV-2
20′ FV-4
35′ FV-3
20′ FV-6
10′ 107 FV-5
25′
10′ 109

SR-52 STA. 639+78.30 =
FAIRVIEW LN. STA. 147+79.09
N 757170.9271
E 2166263.2716

SR-5 STA. 642+45.38 =
ROE LN. STA. 150+00.16
N 756954.3882
E 2166107.1294

105 3.3′
106 3.3′
103 10′
104 3.1′
108 4.7′
110 5.3′
R-2 6.6′
R-1 3.8′
R-4 10.5′
R-3 3.7′
R-6 3.5′
R-5 3.0′

MATCH LINE STA. 630+50 SEE SHT. NO. 13B

MATCH LINE STA. 643+50 SEE SHT. NO. 15B

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103006
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

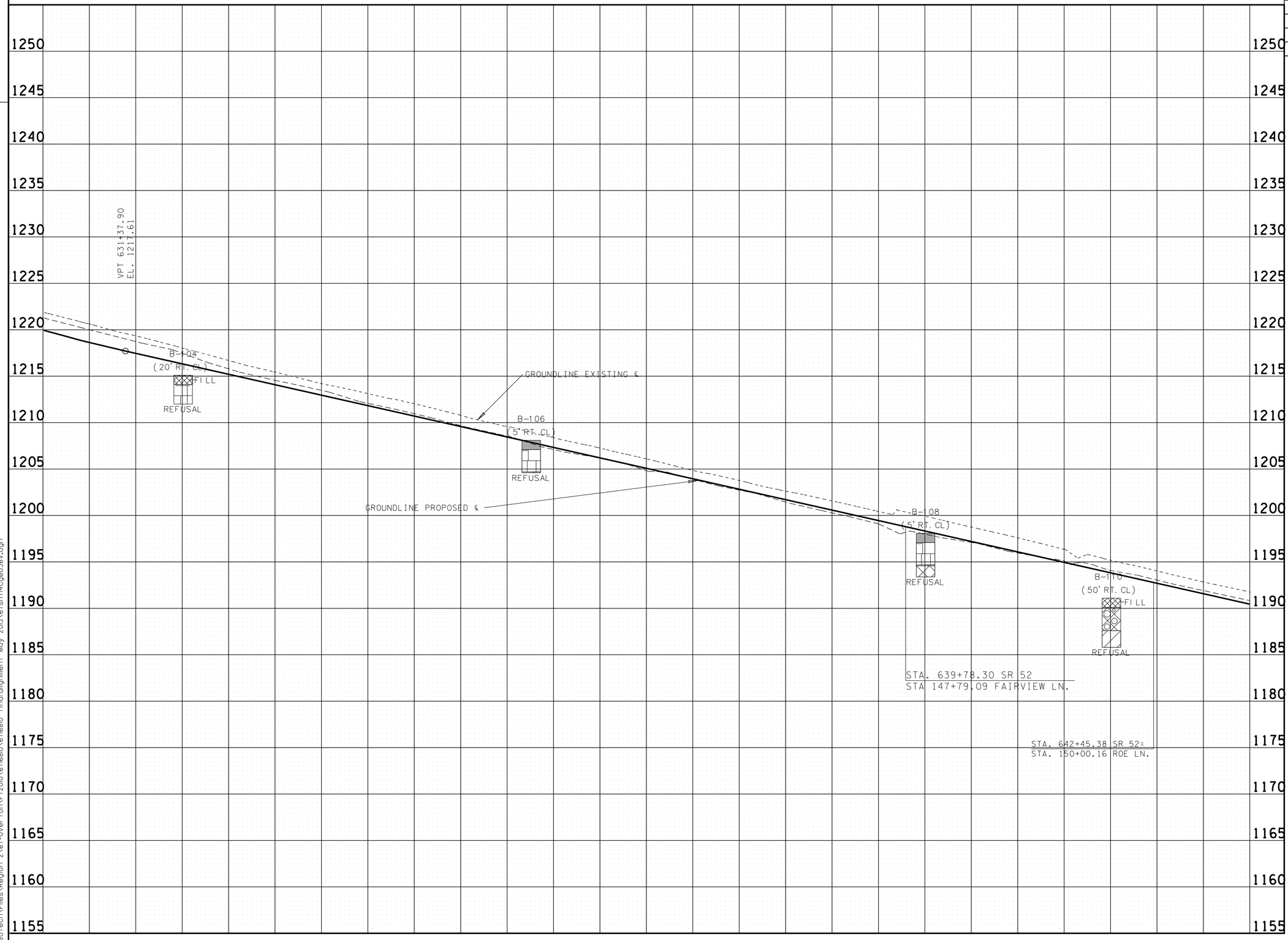
STA. 630+50 TO STA. 643+50

SCALE: 1"= 50′

8/1/2014 11:59:44 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168l0\67l68l0 final alignment May 2013\67sht14bgeo36U.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36V



ASPHALT AND BASESTONE

LIMESTONE FILL

FAT CLAY WITH SAND/SILT

GRAVELLY CLAY

LIMESTONE W/ LEAN CLAY

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMERCE
No. 109626
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

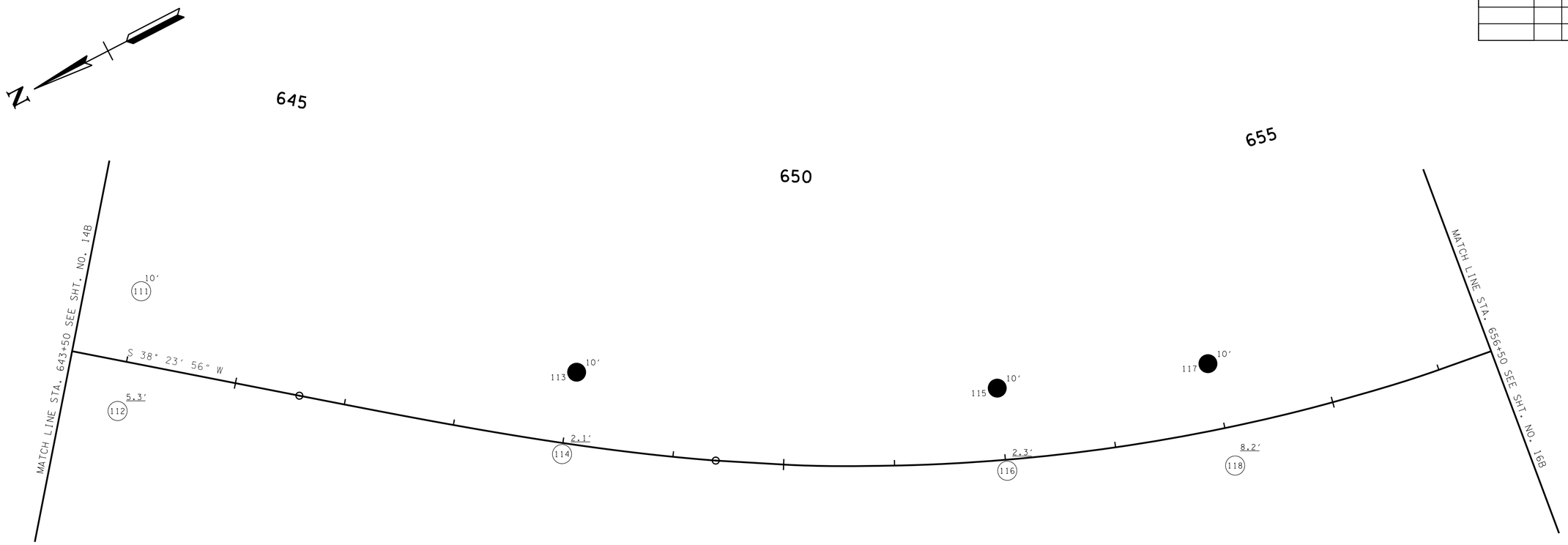
STA. 630+50 TO STA. 643+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 12:00:46 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\671680\671680 finalalignment May 2013\673sht14cgeo36V.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36W



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
No. 103065
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

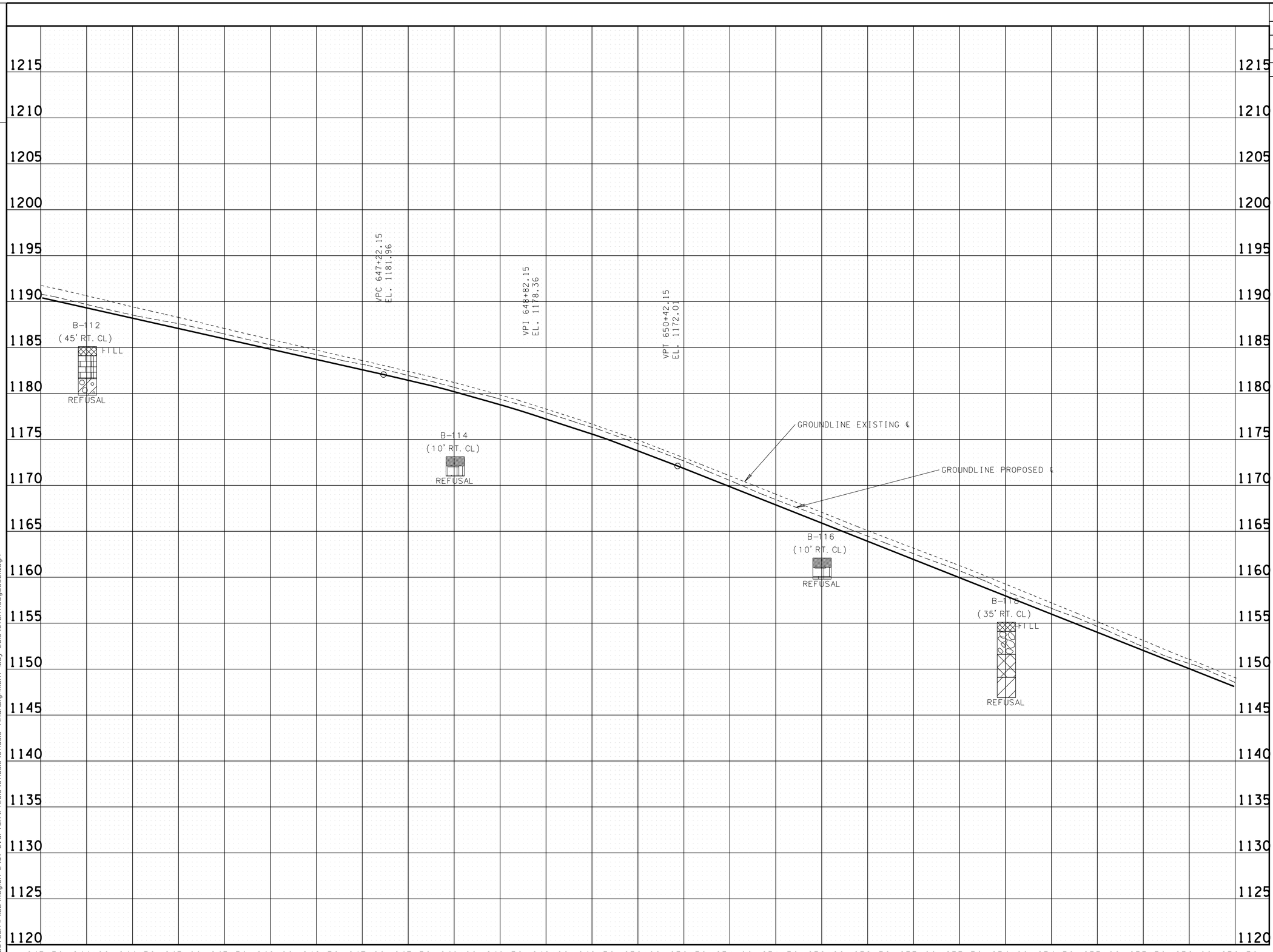
STA._643+50 TO STA._656+50

SCALE: 1"=_50'

8/1/2014 12:02:57 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168101\67168101 finalalignment May 2013\67sht15bgeo36W.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36X



ASPHALT AND BASESTONE

LEAN CLAY

FAT CLAY WITH CHERT

LIMESTONE COBBLES

LIMESTONE FILL

LIMESTONE/SANDSTONE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JONES
REGISTERED ENGINEER
No. 103506
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 643+50 TO STA. 656+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

5/1/2014 12:03:45 PM
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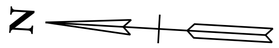
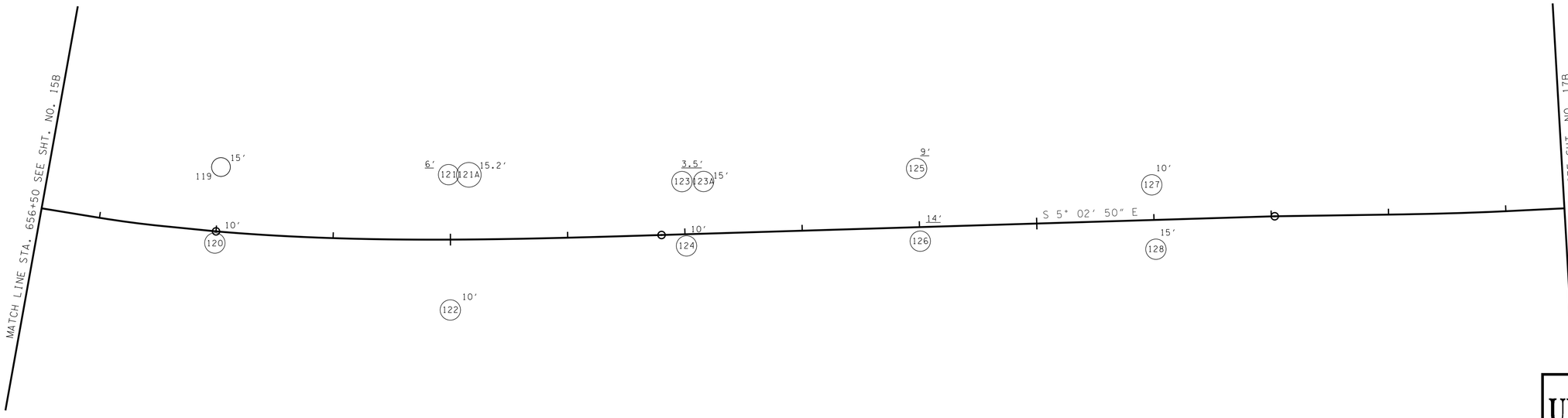
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. ——

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36Y



660

665



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

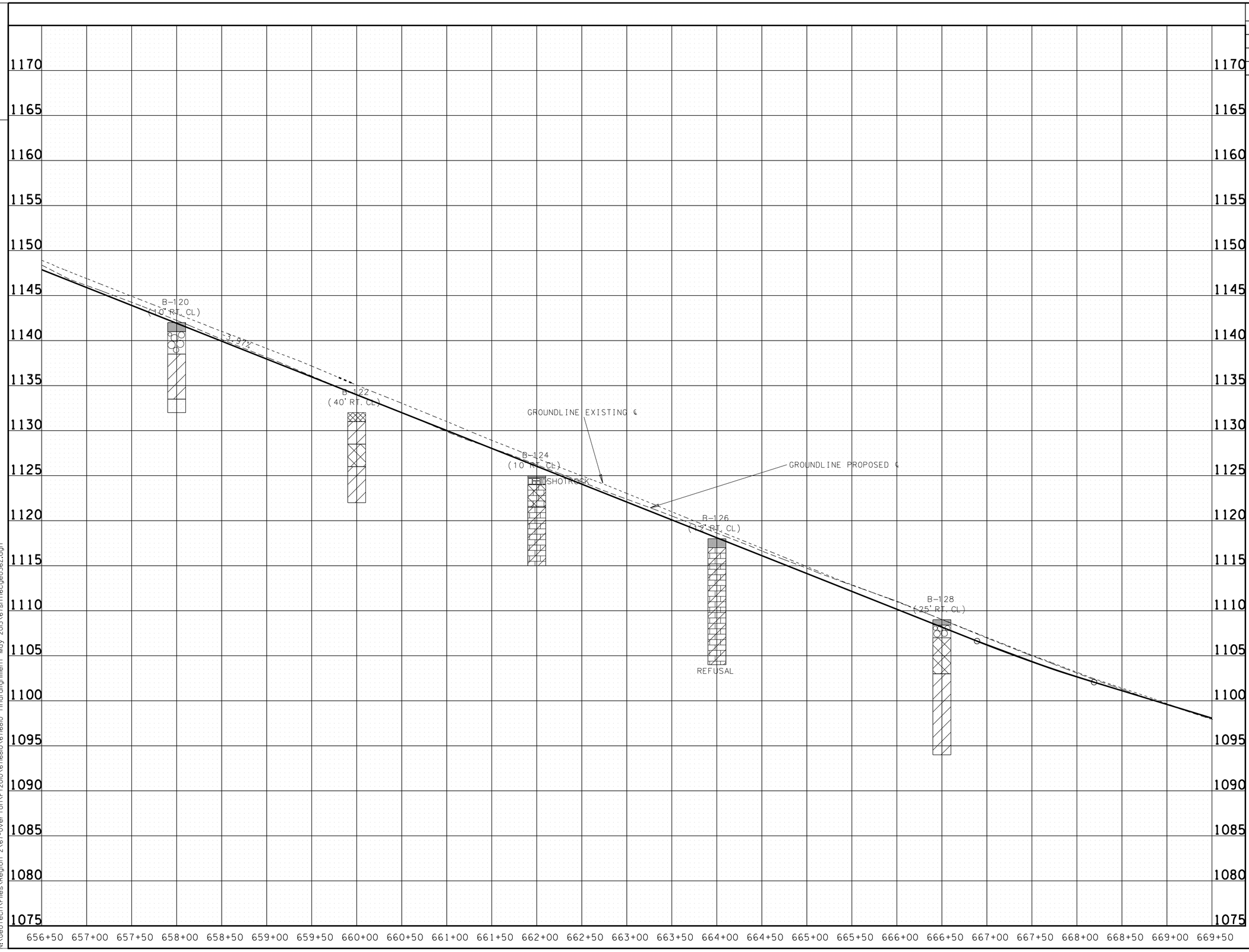
STA. 656+50 TO STA. 669+50

SCALE: 1"=50'

8/6/2014 9:32:10 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\671680\671680 final alignment May 2013\673sht16bge036y.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36Z



ASPHALT AND BASESTONE

LEAN CLAY

FAT CLAY WITH SAND/SILT

GRAVEL

WEATHERED SANDSTONE W/SAND

LIMESTONE W/ LEAN CLAY

NE

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

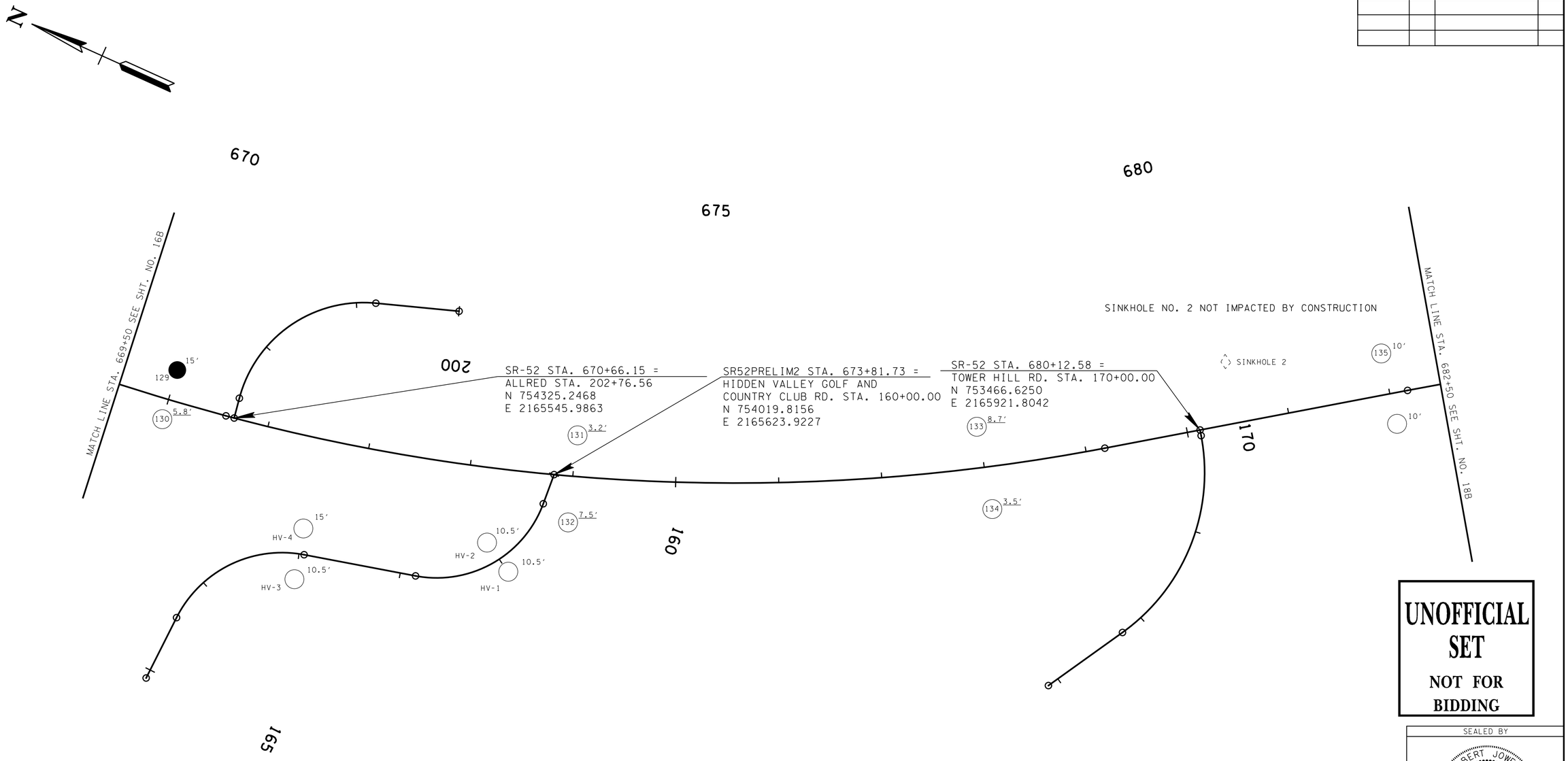
STA. 656+50 TO STA. 669+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/6/2014 9:34:39 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\671680\671680 final alignment May 2013\67sht16cgeo36Z.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AA



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

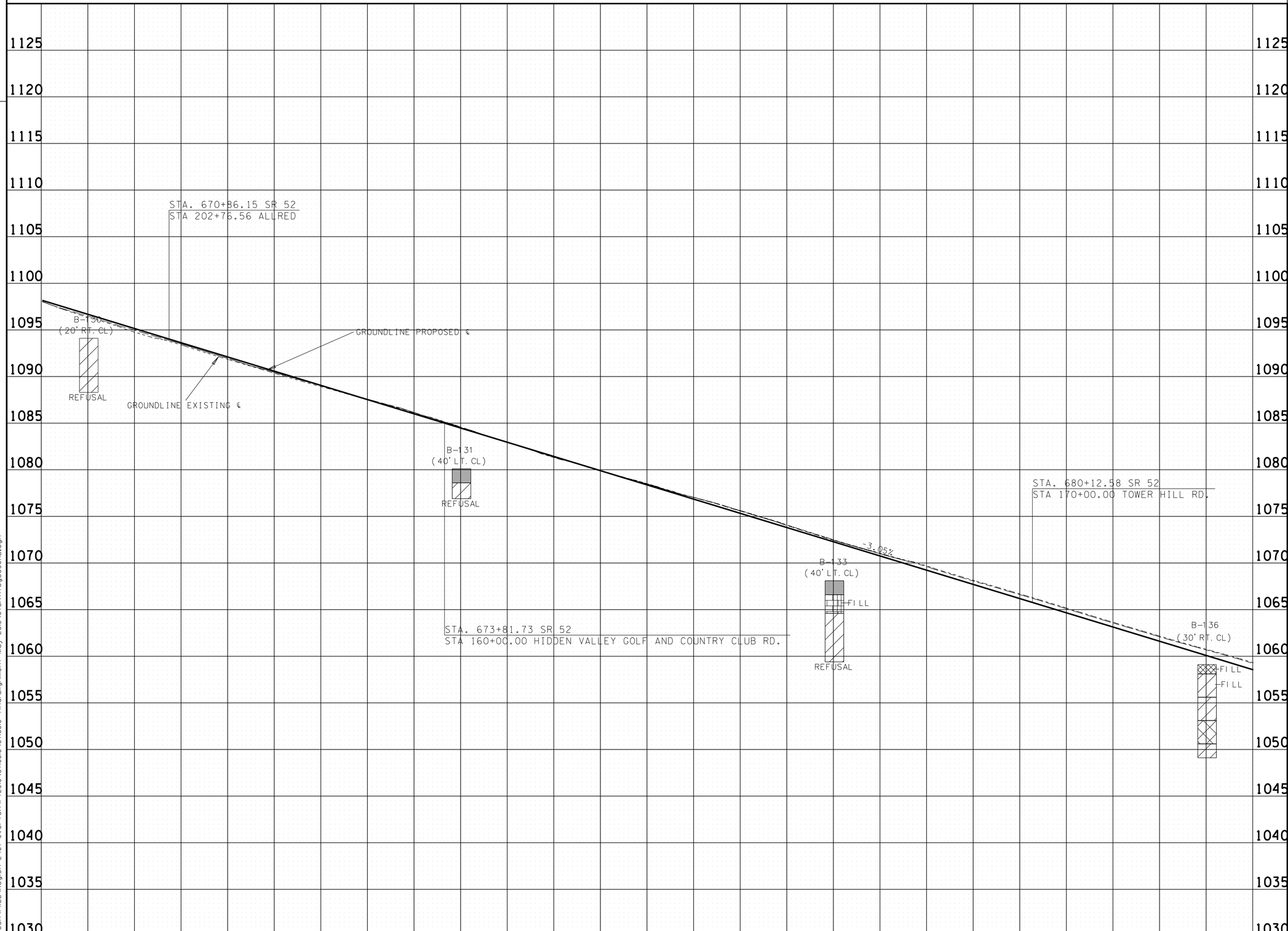
STA. 669+50 TO STA. 682+50

SCALE: 1"=50'

8/1/2014 12:54:01 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168\0\67168l0 final alignment May 2013\67sh+tl7bgeo36AA.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AB



ASPHALT AND BASESTONE

LEAN CLAY

FAT CLAY WITH SAND/GRAVEL

LIMESTONE/SANDSTONE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
No. 109556
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 669+50 TO STA. 682+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 12:55:12 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168I0\67I68I0 finalalignment May 2013\67sht17cgeo36AB.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AC

SR-52 STA. 686+01.91 =
MELVIN JOHNSON DR. STA. 183+27.04
N 752970.8840
E 2166239.3906

SR-52 STA. 693+63.44 =
CASH ST. STA. 190+00.00
N 752256.8553
E 2166497.8774

685

690

695

180 N

LAKE

LAKE

MJ-2 10.5′

MJ-1 10.5′

137 7.2′

138 2.1′

139 10′

140 10′

141 10′

142 10′

C-2 10.5′

C-1 10.5′

MATCH LINE STA. 682+50 SEE SHT. NO. 181

MATCH LINE STA. 695+50 SEE SHT. NO. 198

190

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 103590
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

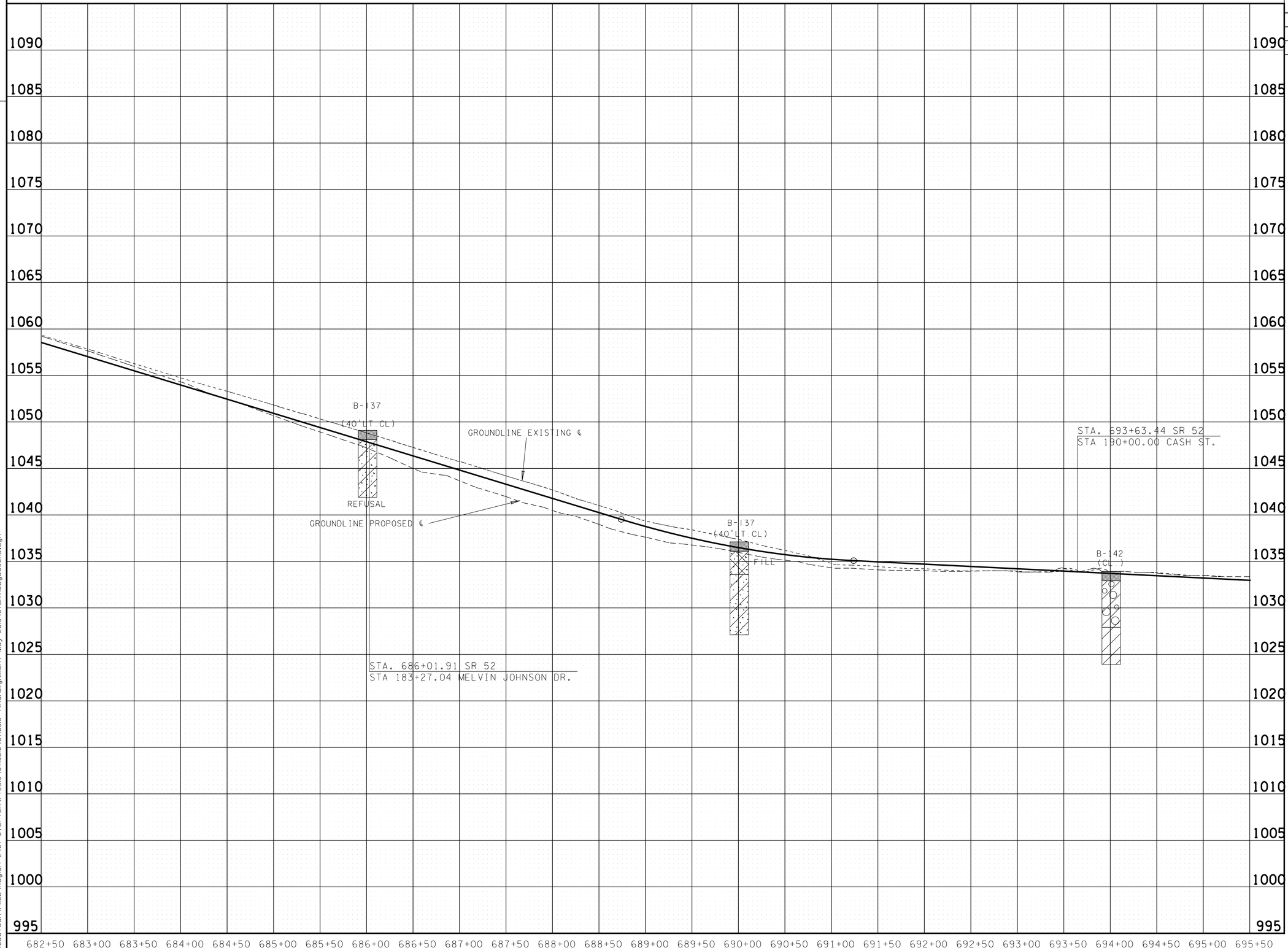
STA._682+50 TO STA._695+50

SCALE: 1"=_50'

8/1/2014 12:56:10 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\671680\671680 finalalignment May 2013\67sht18bgeo36AC.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AD



ASPHALT AND BASESTONE

LEAN CLAY WITH CHERT

FAT CLAY WITH CHERT

FAT CLAY WITH SANDSTONE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMISSIONER
NO. 109908
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 682+50 TO STA. 695+50
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 12:57:23 PM
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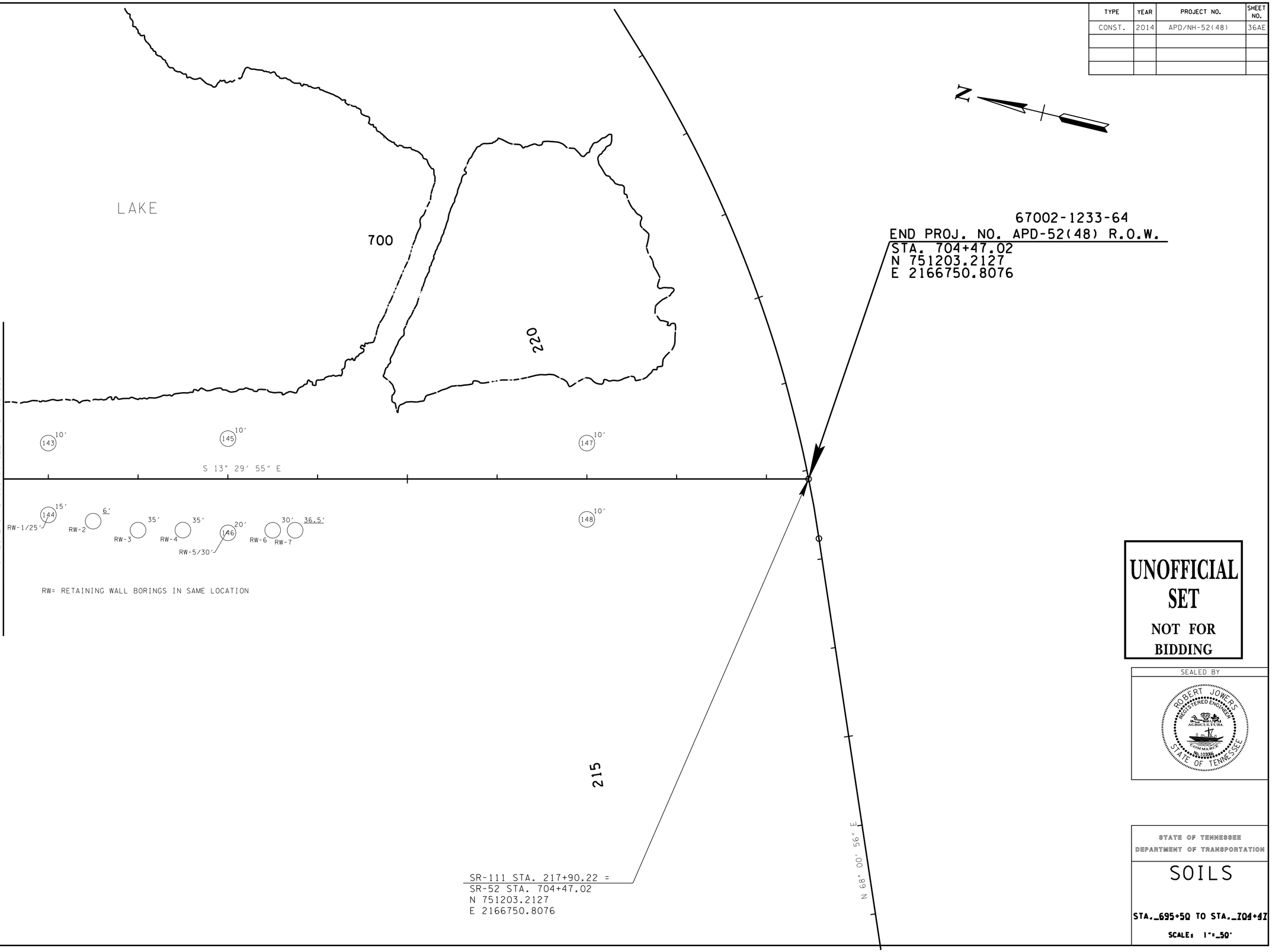
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. ——

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AE



RW= RETAINING WALL BORINGS IN SAME LOCATION

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 695+50 TO STA. 704+47

SCALE: 1"=50'

8/1/2014 12:58:15 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168I0\67168I0 finalalignment May 2013\67SHT19Bgeo36AE.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AF

67002-1233-64
END PROJ. NO. APD-52(48) R.O.W.
STA. 704+47.02
N 751203.2127
E 2166750.8076

STA. 704+47.02 SR 52
STA 217+90.22 SR 111

B-144
(40'RT CL)

B-145
(45'LT CL)

B-147
(40'LT CL)

GROUNDLINE EXISTING ℄

GROUNDLINE PROPOSED ℄

1080 1075 1070 1065 1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985

695+50 696+00 696+50 697+00 697+50 698+00 698+50 699+00 699+50 700+00 700+50 701+00 701+50 702+00 702+50 703+00 703+50 704+00 704+50 705+00 705+50 706+00 706+50 707+00 707+50 708+00 708+50

ASPHALT AND BASESTONE

FAT CLAY WITH CHERT

LEAN CLAY WITH CHERT

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 109561
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 695+50 TO STA. 704+47

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

3/1/2014 12:59:15 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168101\6716810 final alignment May 2013\67sht19cgeo36AF.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AG

1445 1440 1435 1430 1425 1420 1415 1410 1405 1400 1395 1390 1385 1380 1375 1370 1365 1360 1355

WC-4
(15'LT.CL)
NO RECOVERY

℄

WC-2
(15'RT.CL)
2.1500%
4.5000%
0.0000%
LIMIT OF CONST.
STA. 13+00.00

LIMIT OF CONST.
STA. 20+25.00
0.0000%
EC-1
2.7216%
(15'LT.CL)
2.2837%
REFUSAL

AC-1
(20'LT.CL)
3.7337%
2.02%
0.00%
LIMIT OF CONST.
STA. 32+25.00
STA. 31+20.85 ANDREW COVE RD.
STA. 50+00.00 TOWER HILL RD.

EAST CEDAR LANE
RT. STA. 519+69.21

WEST CEDAR LANE
LT. STA. 519+69.21

ANDREW COVE ROAD
RT. STA. 528+65.03

20+00 21+00 22+00 23+00 10+00 11+00 12+00 13+00 14+00 30+00 31+00 32+00 33+00

LEAN CLAY

FAT CLAY WITH SAND

SILT W/SANDSTONE, SHALE

GRAVEL

CLAYEY SAND

WEATHERED SANDSTONE

SHALE/SILTSTONE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JONES
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 1:00:23 PM
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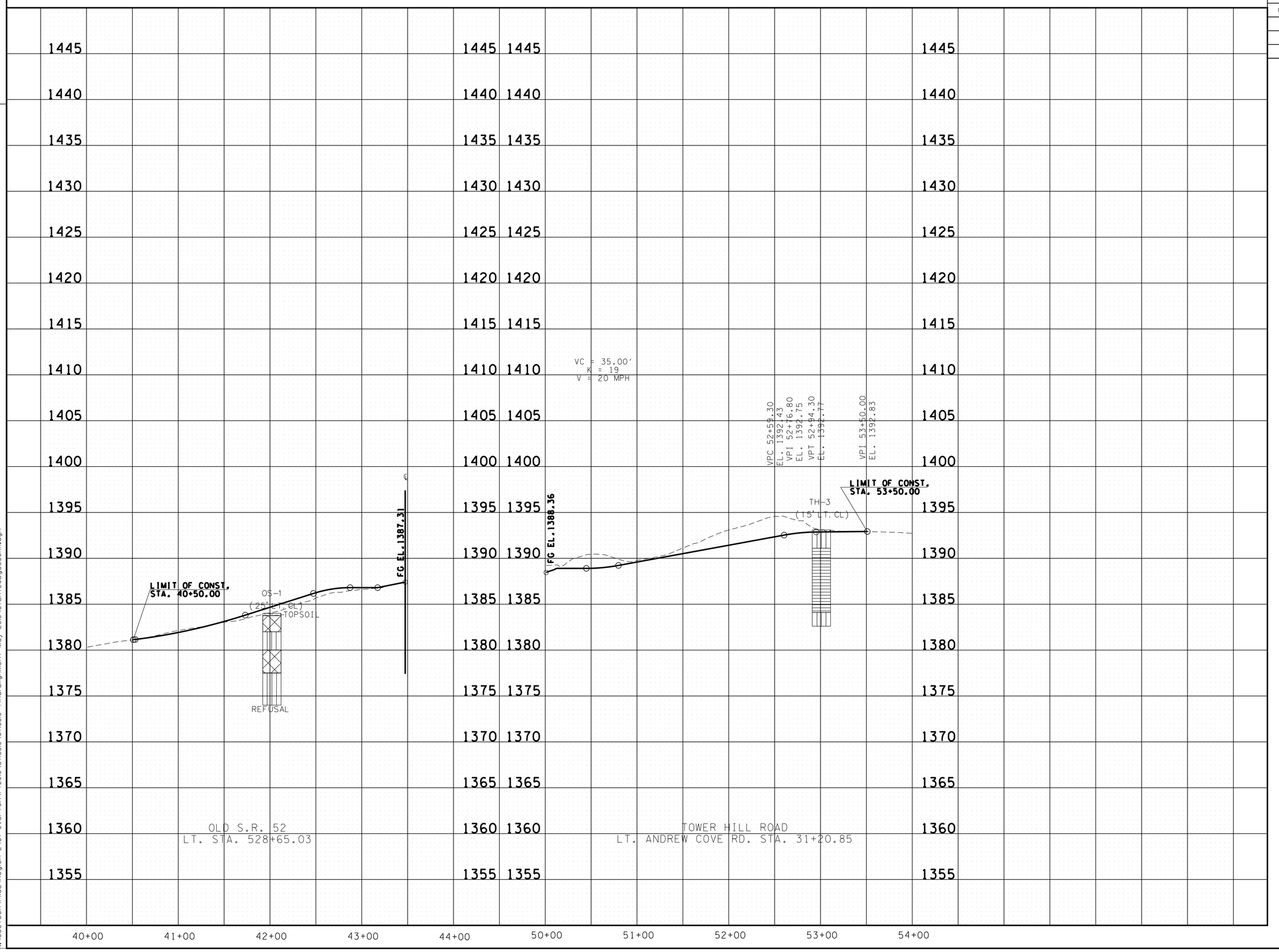
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AH



LEAN CLAY

SANDY SILT

WEATHERED SHALE

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JONES
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

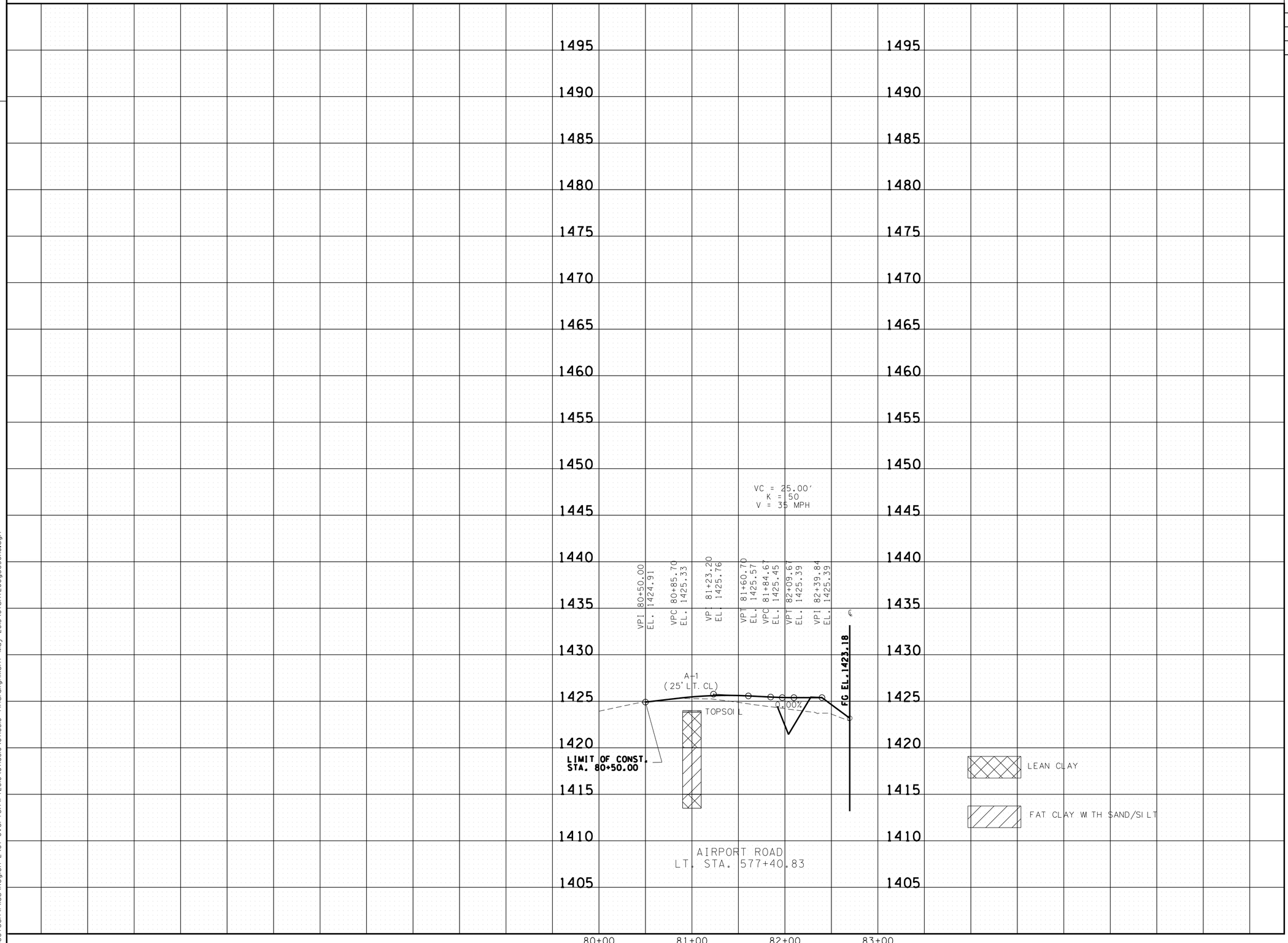
SOILS SIDE ROADS AND STREETS

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 10:10 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\671680\671680 final alignment May 2013\67sh120Bgeo36AH.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AJ



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

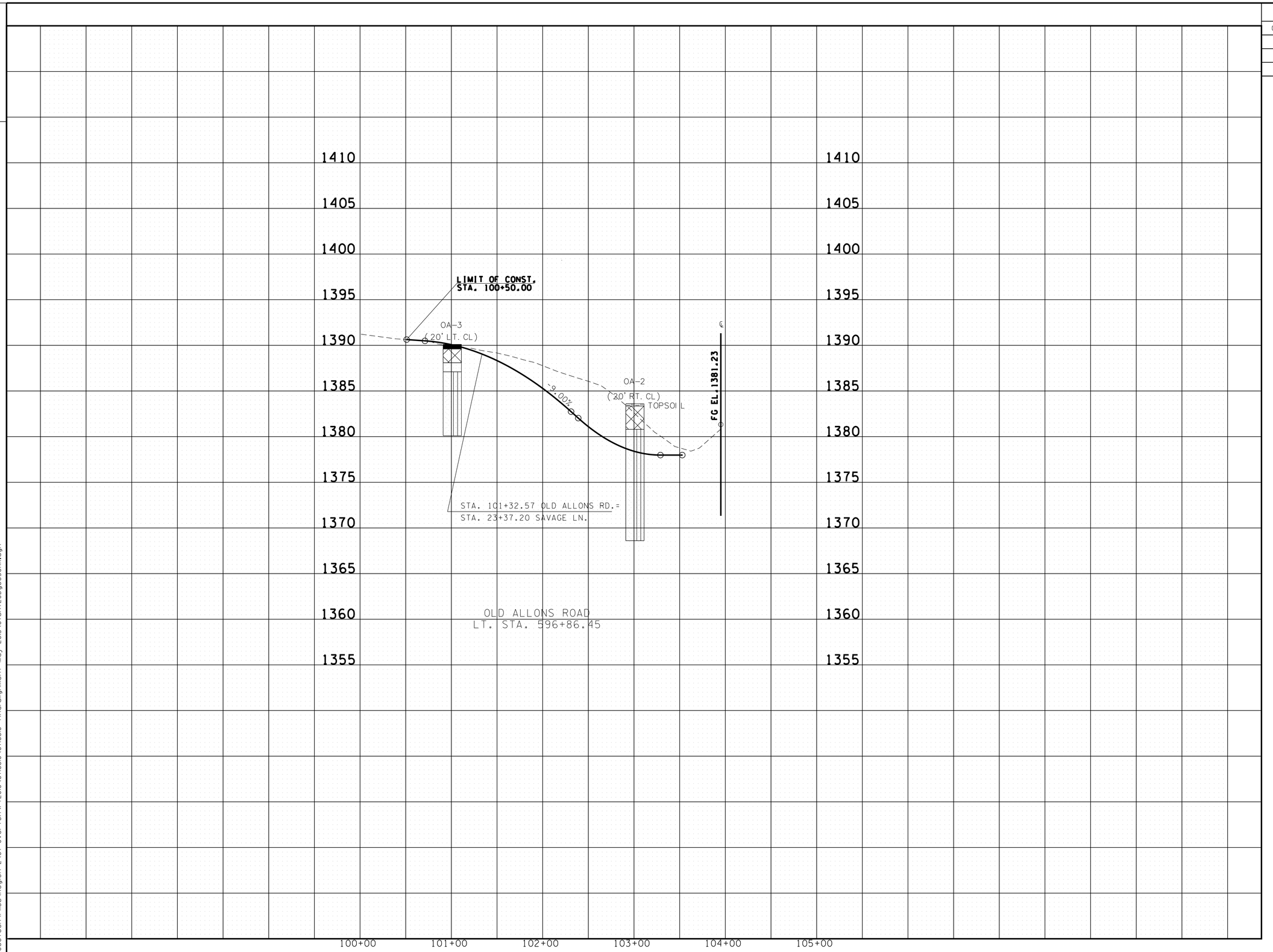
SOILS

STA. 80+00 TO 83+00
AIRPORT ROAD
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 10:02:03 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168I0\67168I0 finalalignment May 2013\67sht20Cgeo36AJ.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AK



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
No. 109096
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

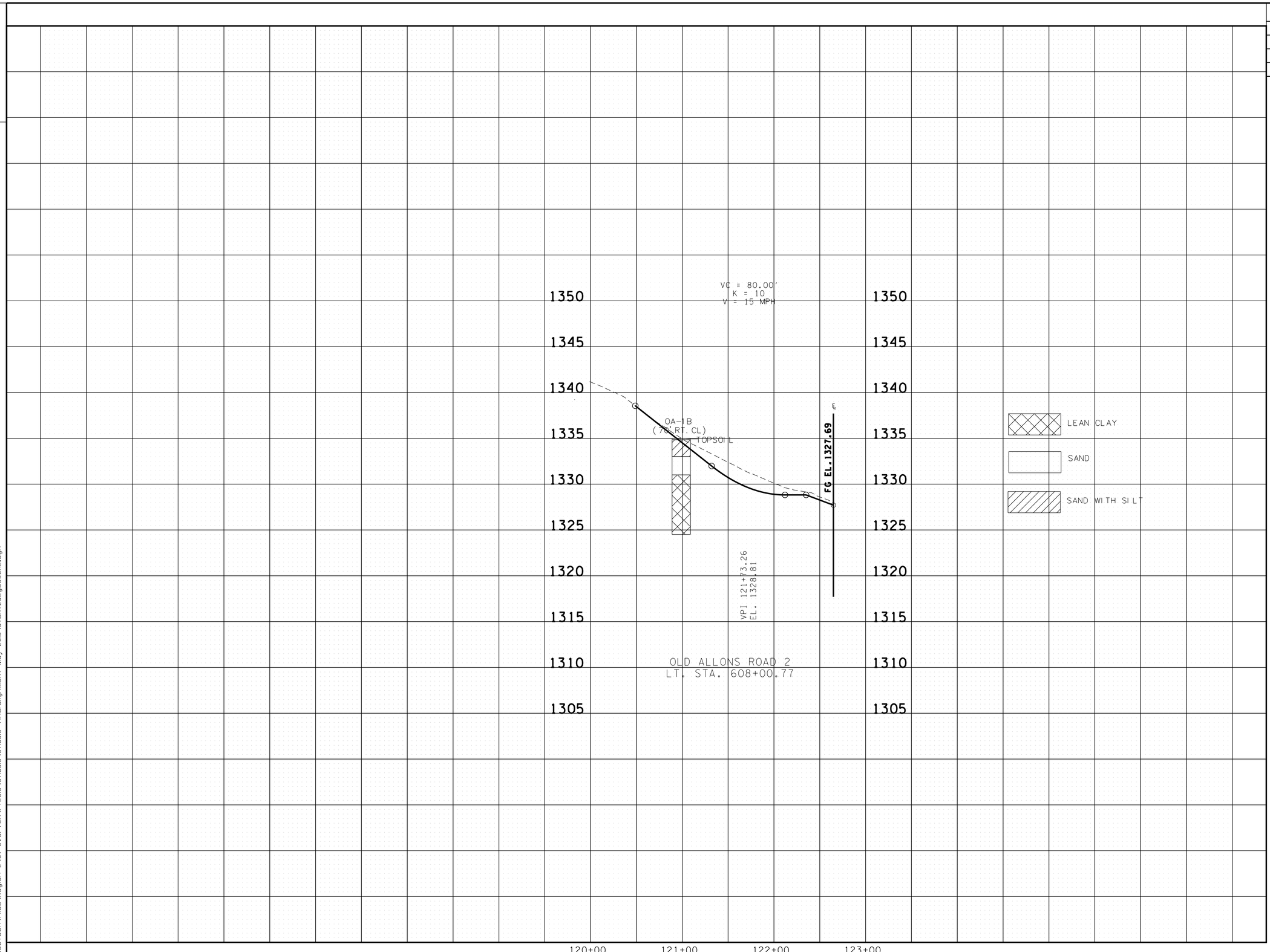
OLD ALLONS ROAD
STA.100+00 TO STA.105+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 10:25:1PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\671680\671680 final alignment May 2013\67sht20Dgeo36AK.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AL



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMISSIONER
No. 110006
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

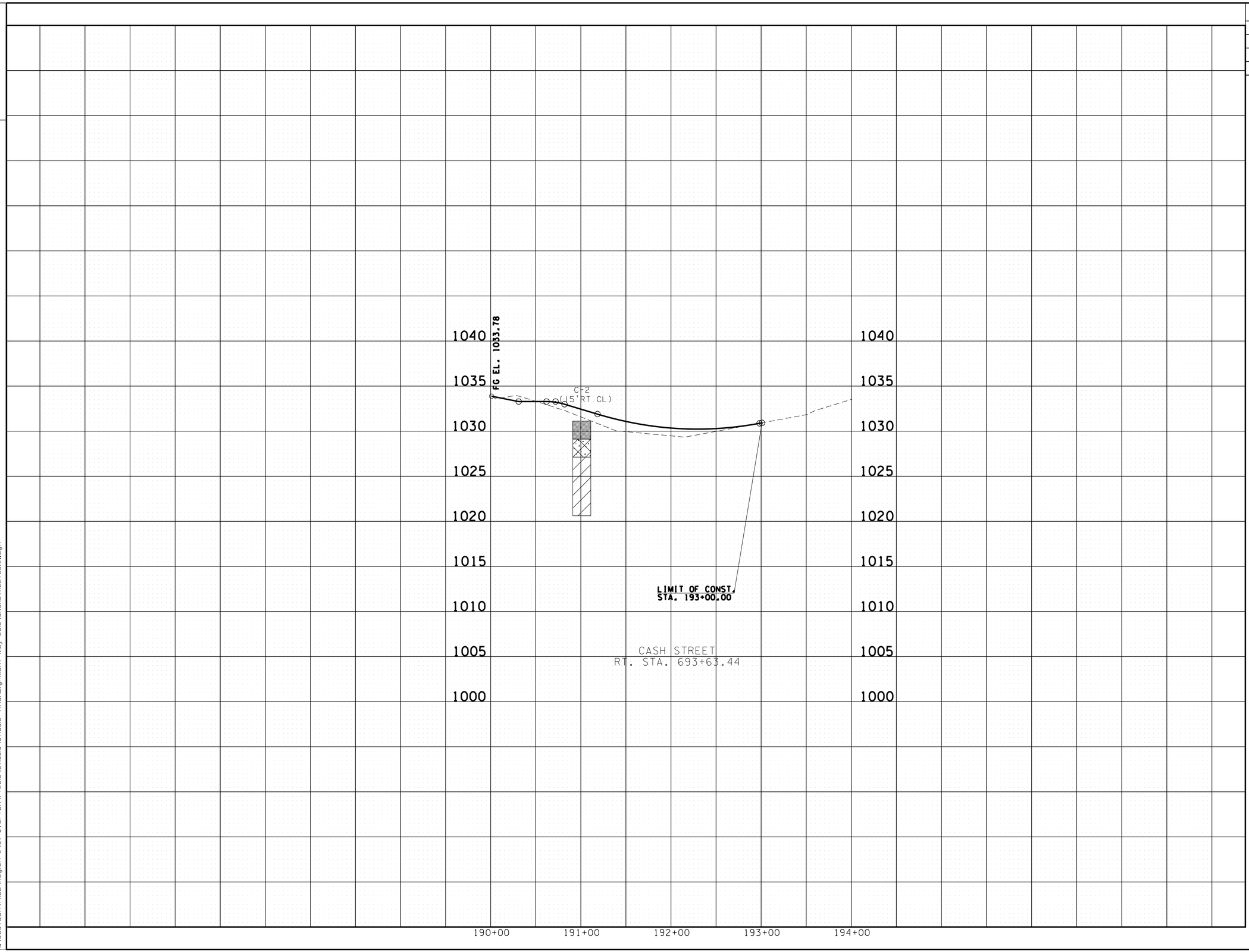
OLD ALLONS ROAD
STA.120+00 TO STA.123+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 1:03:46 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168I0\67168I0 finalalignment May 2013\67sht20Egeo36AL.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AN



ASPHALT AND BASESTONE

LEAN CLAY WITH CHERT

FAT CLAY WITH SILT AND SAND

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

CASH STREET
STA. 190+00 TO STA. 194+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 12:07:00 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168\0\67168\0 final alignment May 2013\CASHSTREET36AN.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AP

1075
1070
1065
1060
1055
1050
1045
1040
1035
1030
1025
1020
1015
1010
1005
1000

MJ-1
(15'LT CL)

FG EL. 1047.69

LIMIT OF CONST.
STA. 181+30.00

MELVIN JOHNSON DRIVE
LT. STA. 686+01.91

180+00 181+00 182+00 183+00 184+00

ASPHALT AND BASESTONE

LEAN CLAY WITH CHERT

FAT CLAY WITH SILT AND SAND

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
No. 110006
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

MELVIN JOHNSON RD.
STA.180+00 TO STA.184+00

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 10:35 PM
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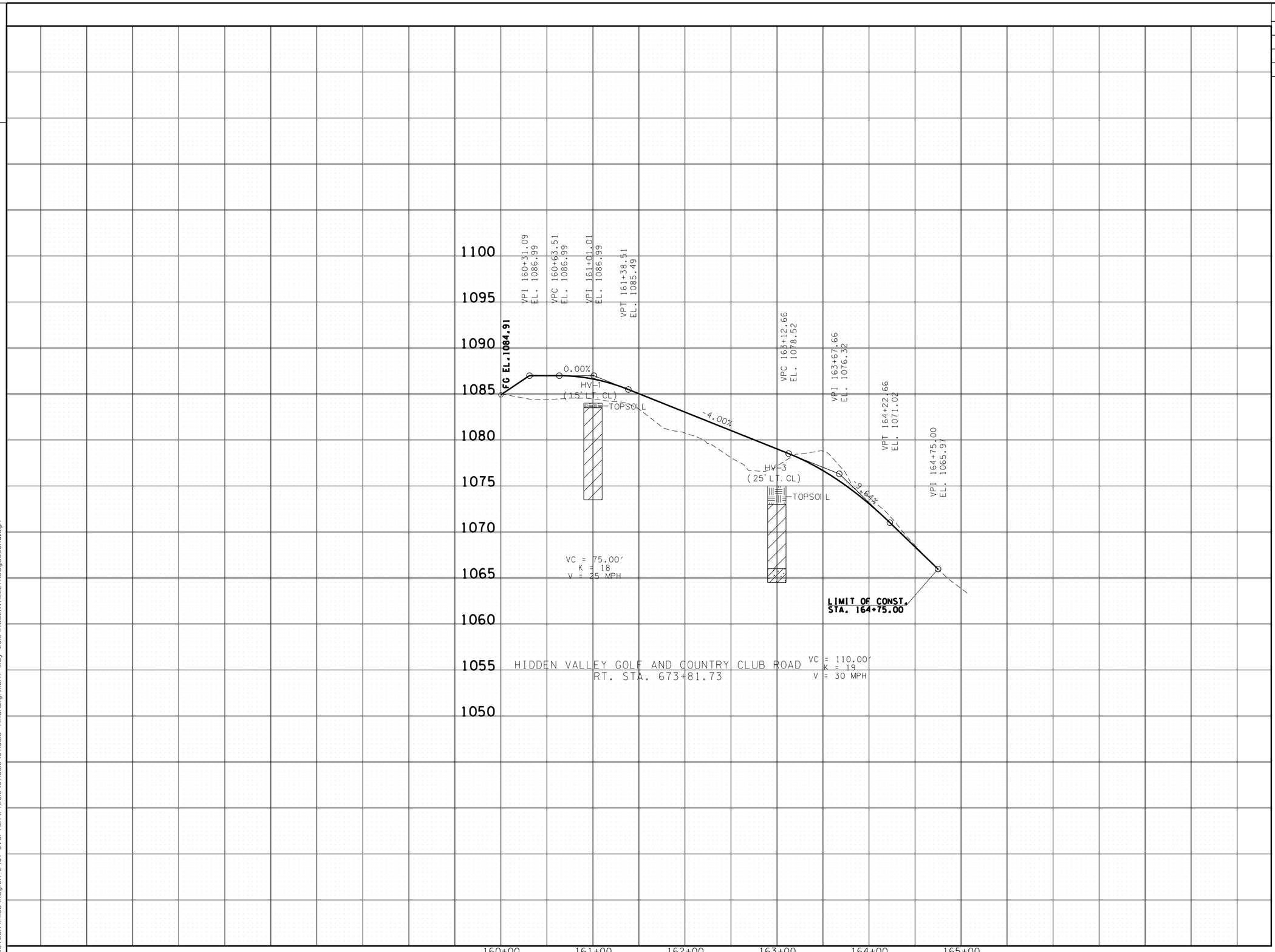
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AQ



FAT CLAY WITH SAND/GRAVEL

CHERT W/FAT CLAY

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
No. 103556
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

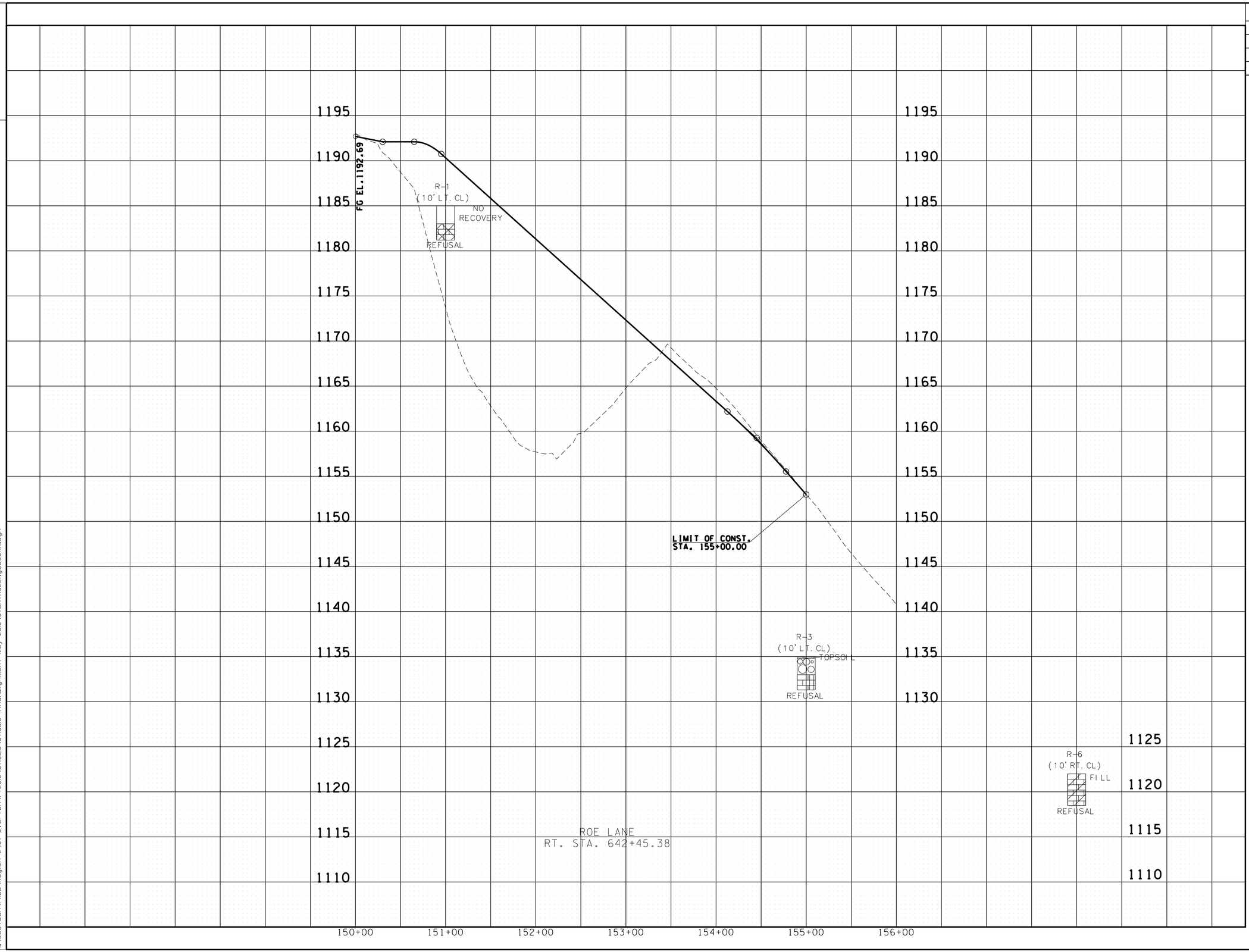
STA.160+00 TO STA.165+00
HIDDEN VALLEY ROAD

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 1:08:36 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168101\67168101 finalalignment May 2013\HIDDENVALLEYRDcgeo36A0.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AR



GRAVEL

LIMESTONE W/
LEAN CLAY

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

STA. 565+50 TO STA. 578+50

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 1:05:45 PM
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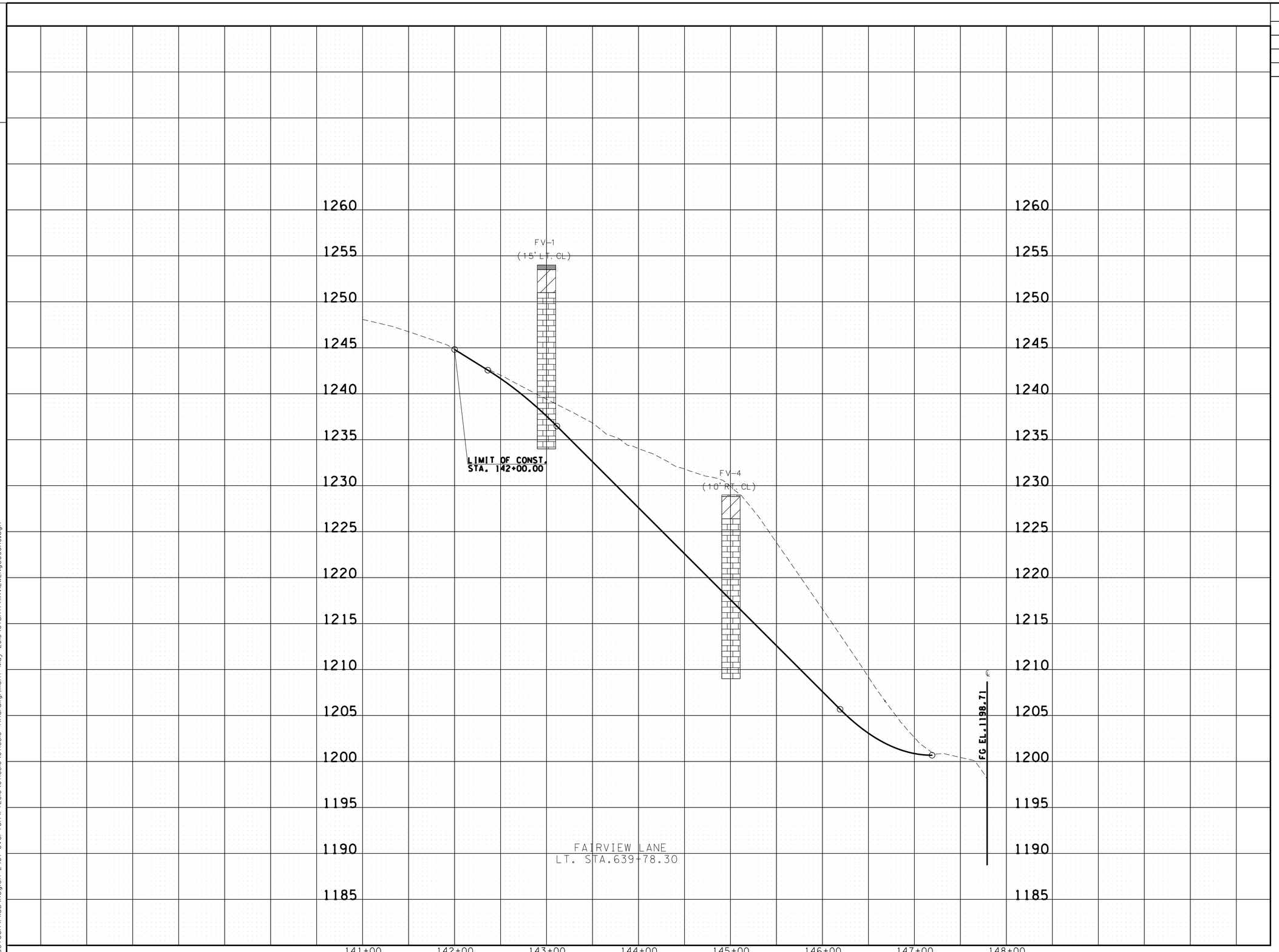
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AS



FAT CLAY WITH SAND/SILT

LIMESTONE

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

FAIRVIEW LANE

SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 1:04:59 PM
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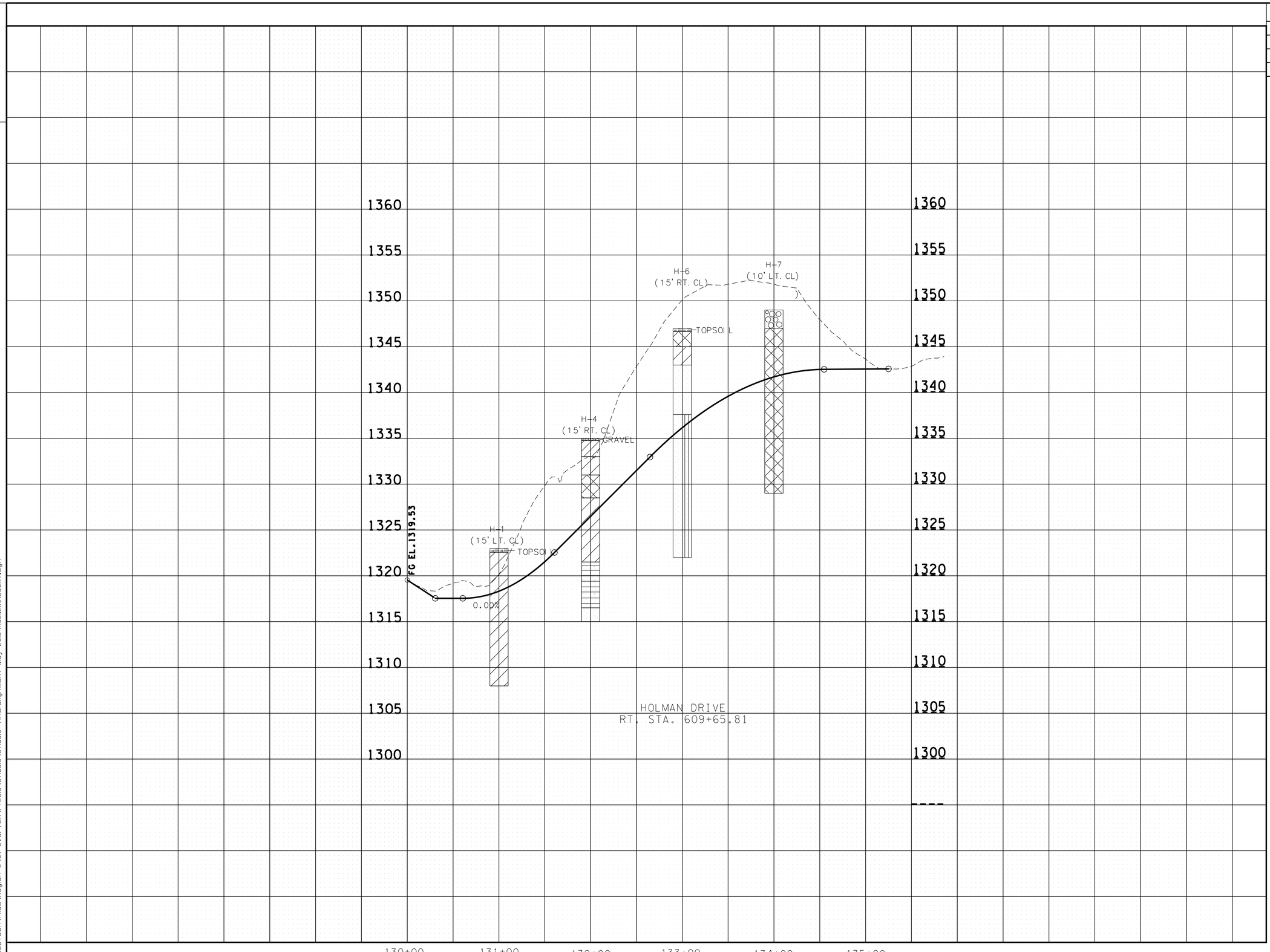
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AT



LEAN CLAY

FAT CLAY WITH SAND/SILT

SAND WITH SILT

CLAYEY SAND

WEATHERED SANDSTONE W/ SAND

SANDSTONE HIGHLY

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

HOLMAN DRIVE

STA.130+00 TO STA.135+00

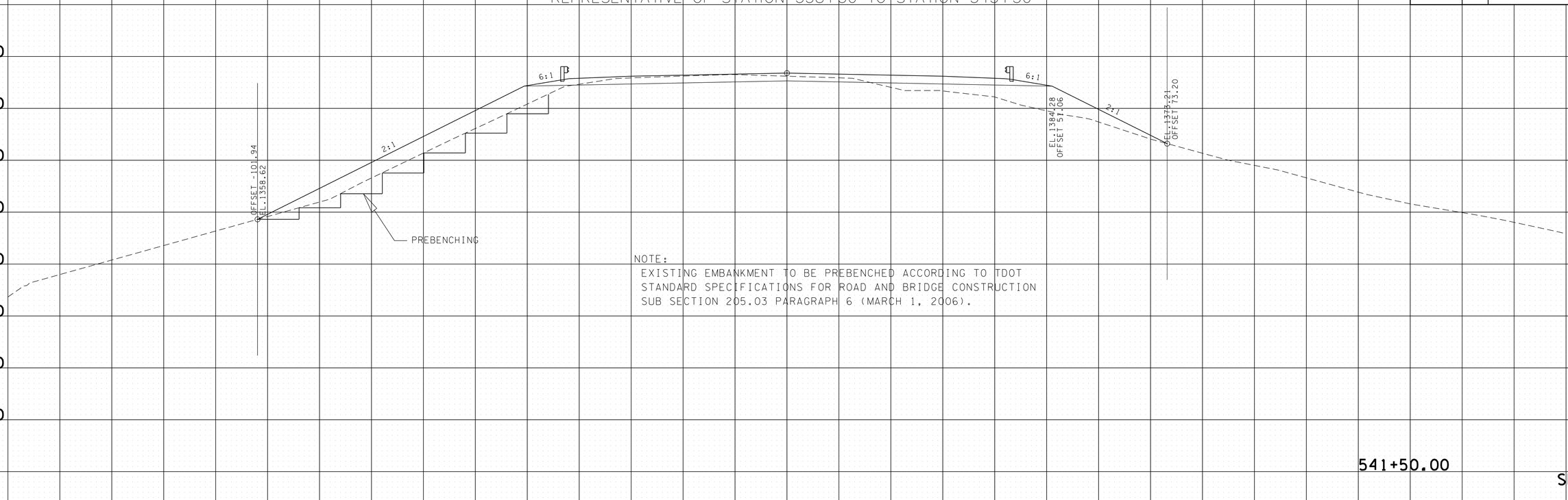
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

8/1/2014 1:09:24 PM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168I0\67I68I0 final alignment May 2013\HOLMANRD36AT.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AU

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

REPRESENTATIVE OF STATION 538+50 TO STATION 543+50

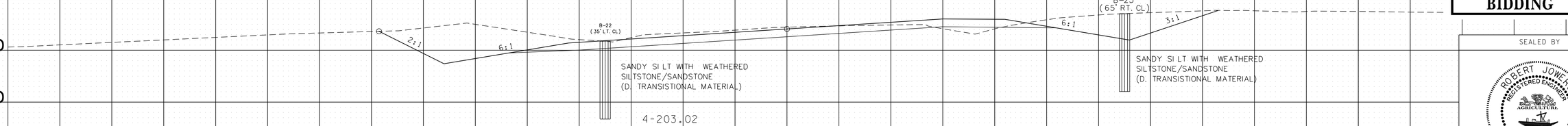


NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 6 (MARCH 1, 2006).

541+50.00

SR-52

REPRESENTATIVE OF STATION 511+50 TO STATION 538+50



4-203.02

D. TRANSISTIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF THOSE MATERIALS DESCRIBED ABOVE OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E., SHALE MATERIAL WITH RELATIVELY 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 OR 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.

537+00.00

SR-52

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

00
90

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 103026

8/1/2014 9:44:42 AM
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TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AV

REPRESENTATIVE OF STATION 543+50 TO STATION 562+00

4-203.02

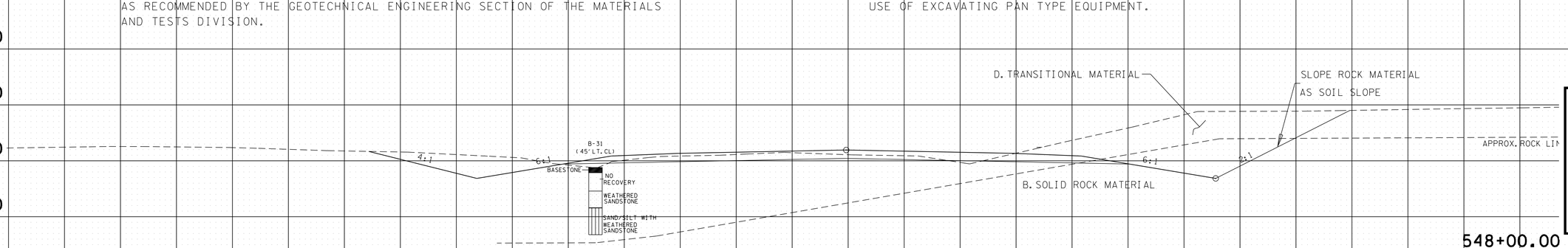
B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT 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 CONSTUCTION 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 TESTS DIVISION.

4-203.02

D. TRANSISTIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF THOSE MATERIALS DESCRIBED ABOVE OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E., SHALE MATERIAL WITH RELATIVELY 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 OR 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.



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
No. 109006
STATE OF TENNESSEE

SR-52

8/1/2014 9:45:20 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AW

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

REPRESENTATIVE OF STATION 543+50 TO STATION 562+00

4-203.02

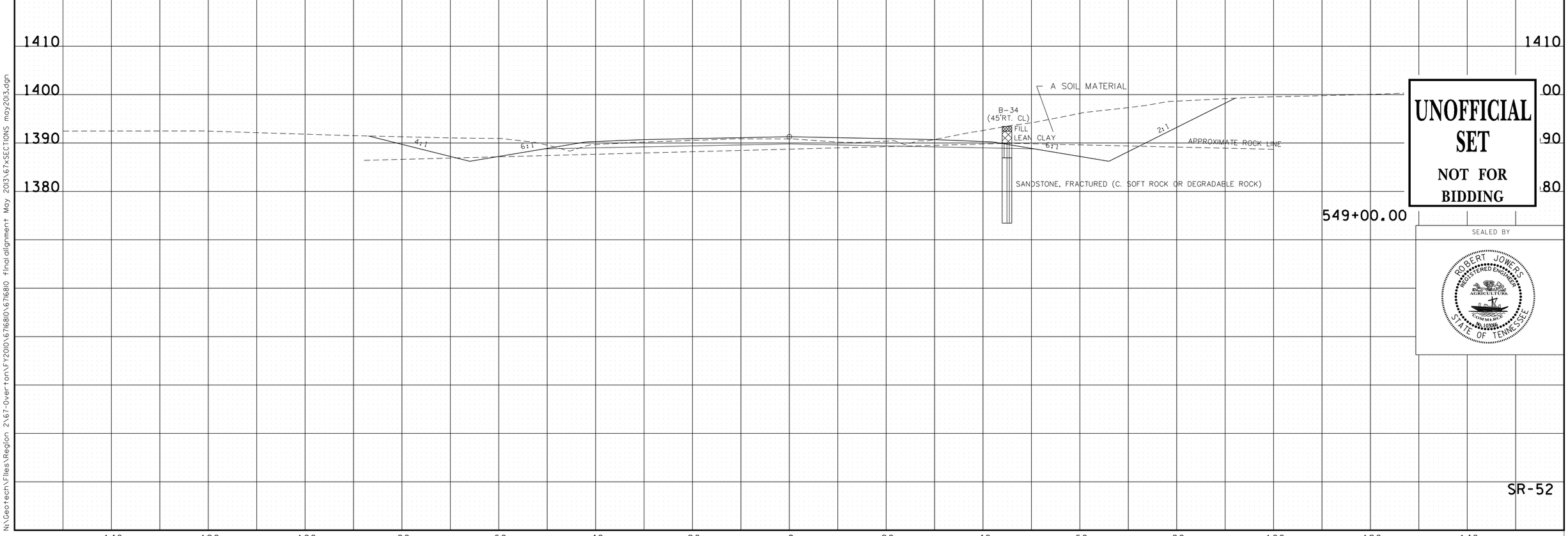
A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT 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 YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

4-203.02

C. SOFT ROCK OR DEGRADABLE ROCK

THIS MATERIAL IS THAT 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 PURPOSES 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 MATERIAL AND THE DEGREE OF WEATHERING, DISINTEGRATION, OR DEGRADATION.



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 103035

SR-52

8/1/2014 9:45:56 AM
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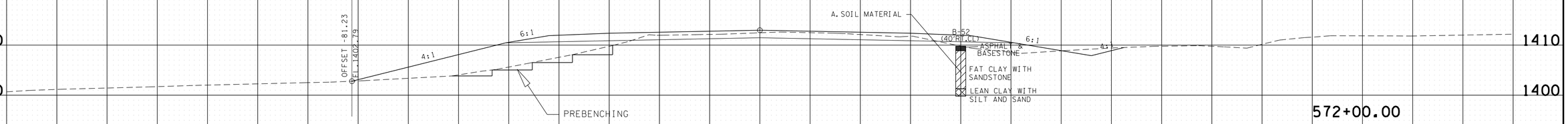
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AX

TENNESSEE D.O.T. DESIGN DIVISION

FILE NO.

REPRESENTATIVE OF STATION 571+00 TO STATION 575+50

NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 6 (MARCH 1, 2006).



4-203.02

A. SOIL MATERIAL

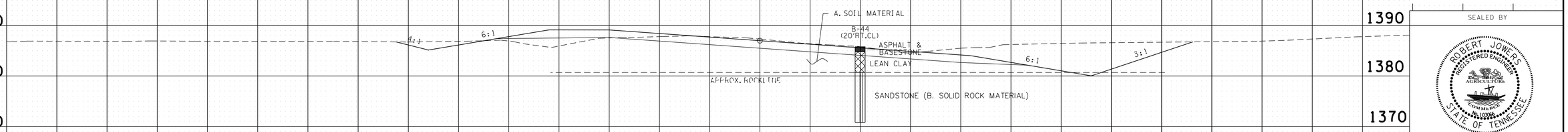
SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, OR BOULDERS OF LESS THAN APPROXIMATELY 0.5 CUBIC YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

4-203.02

B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT 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 CONSTUCTION 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 TESTS DIVISION.

REPRESENTATIVE OF STATION 562+50 TO STATION 571+00



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ROBERT JOWERS
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AGRICULTURE
COMMERCE
STATE OF TENNESSEE

S.R. 52

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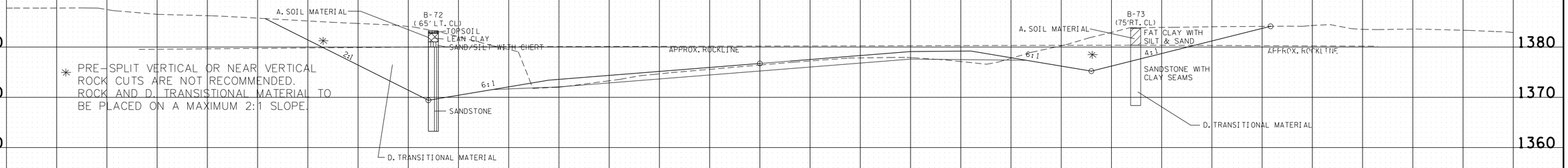
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AY

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

REPRESENTATIVE OF STATION 591+50 TO STATION 602+00



* PRE-SPLIT VERTICAL OR NEAR VERTICAL ROCK CUTS ARE NOT RECOMMENDED. ROCK AND D. TRANSISTIONAL MATERIAL TO BE PLACED ON A MAXIMUM 2:1 SLOPE.

4-203.02

A. SOIL MATERIAL

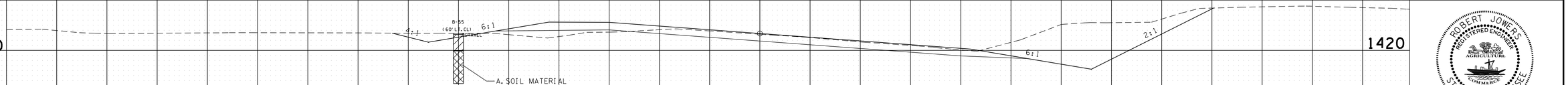
SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, OR BOULDERS OF LESS THAN APPROXIMATELY 0.5 CUBIC YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

4-203.02

D. TRANSISTIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF THOSE MATERIALS DESCRIBED ABOVE OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E., SHALE MATERIAL WITH RELATIVELY 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 OR 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.

REPRESENTATIVE OF STATION 575+50 TO STATION 591+00



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AGRICULTURE
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No. 100566
STATE OF TENNESSEE

SR-52

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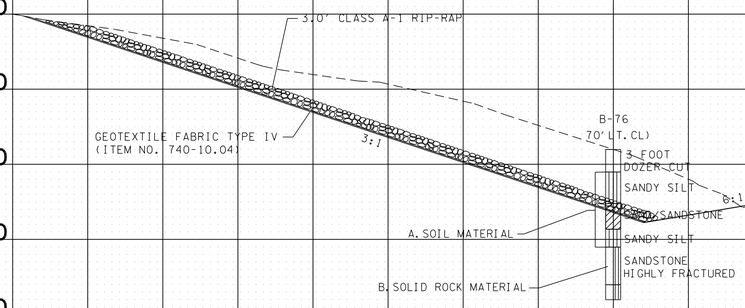
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36AZ

TENNESSEE D.O.T. DESIGN DIVISION

FILE NO.



REPRESENTATIVE OF STATION 602+00 TO STATION 603+50

4-203.02

B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT 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 CONSTUCTION 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 TESTS DIVISION.

4-203.02

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT 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 YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

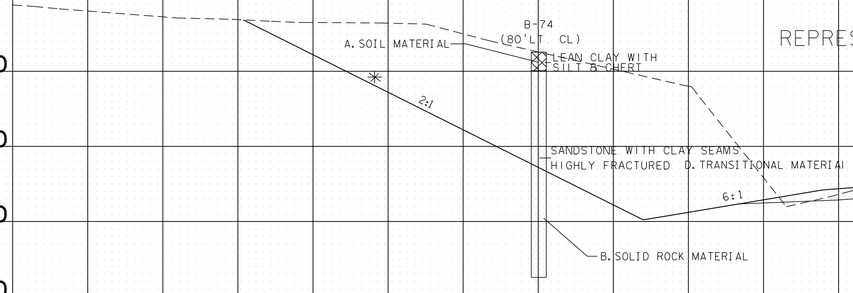
4-203.02

D. TRANSISTIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF THOSE MATERIALS DESCRIBED ABOVE OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E., SHALE MATERIAL WITH RELATIVELY 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 OR 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.

602+00.00

* PRE-SPLIT VERTICAL OR NEAR VERTICAL ROCK CUTS ARE NOT RECOMMENDED. ROCK AND D. TRANSISTIONAL MATERIAL TO BE PLACED ON A MAXIMUM 2:1 SLOPE.



REPRESENTATIVE OF STATION 591+50 TO STATION 602+00

600+00.00

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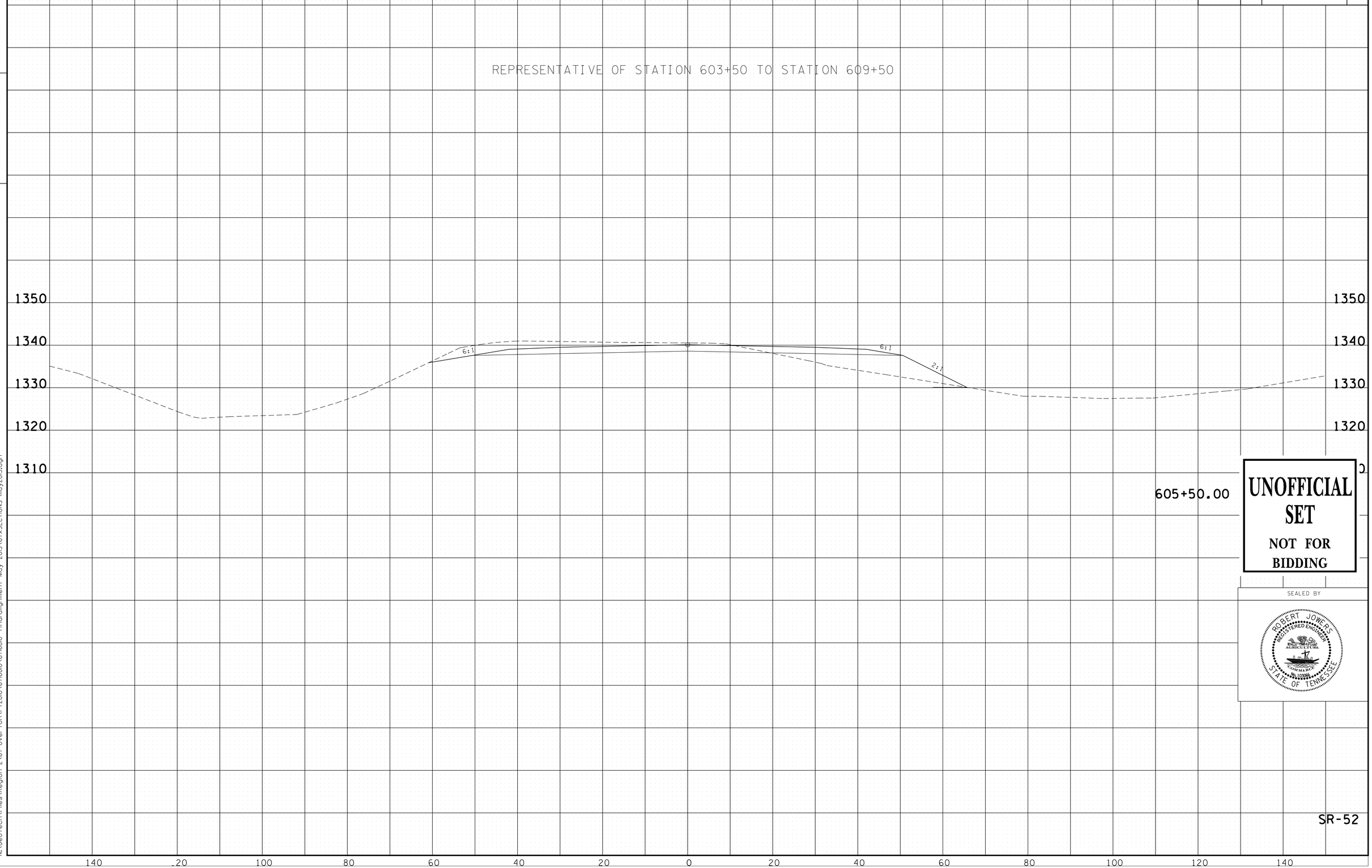
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BA

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

REPRESENTATIVE OF STATION 603+50 TO STATION 609+50



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No. 103006
STATE OF TENNESSEE

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8/1/2014 9:49:04 AM
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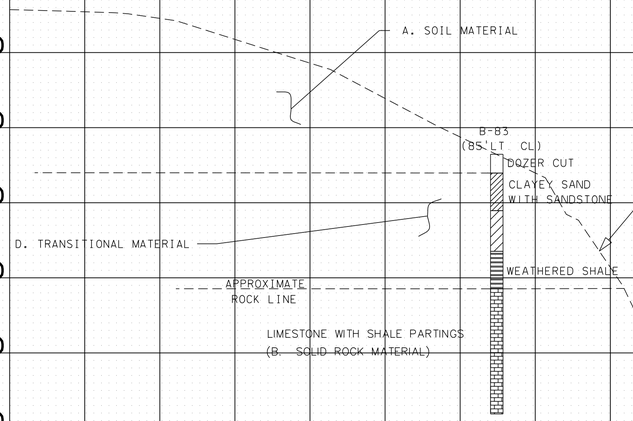
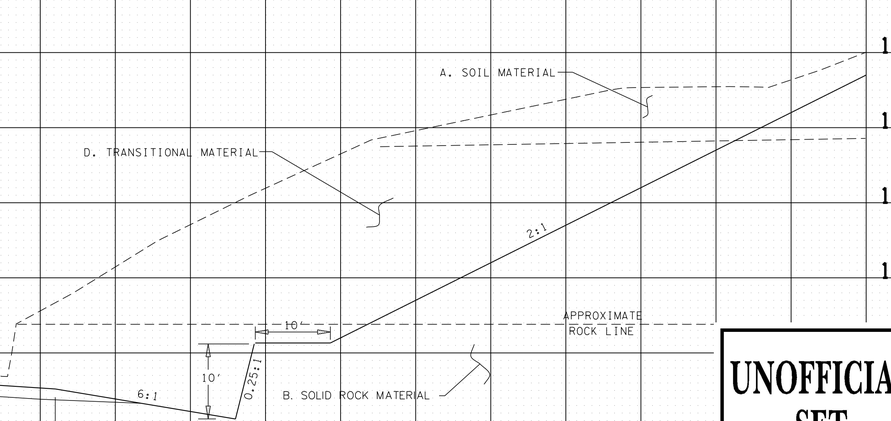
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BB

TENNESSEE D.O.T. DESIGN DIVISION

FILE NO.

REPRESENTATIVE OF STATION 609+50 TO STATION 617+50





4-203.02

D. TRANSISTIONAL MATERIALS

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UNOFFICIAL SET

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ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

4-203.02

A. SOIL MATERIAL

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4-203.02

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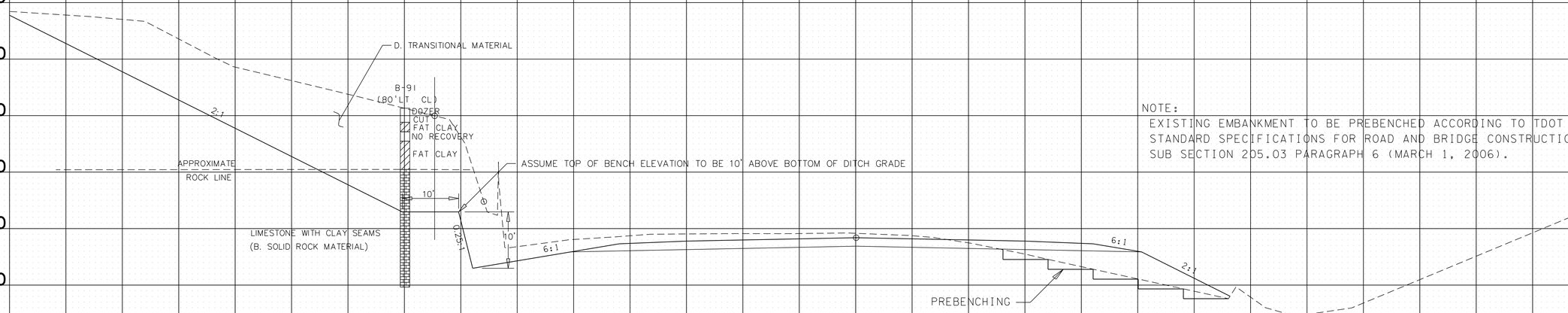
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BC

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

REPRESENTATIVE OF STATION 619+00 TO STATION 621+00



NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 6 (MARCH 1, 2006).

4-203.02

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4-203.02

D. TRANSISTIONAL MATERIALS

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ROBERT JOWERS
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AGRICULTURE
COMMERCE
No. 100566
STATE OF TENNESSEE

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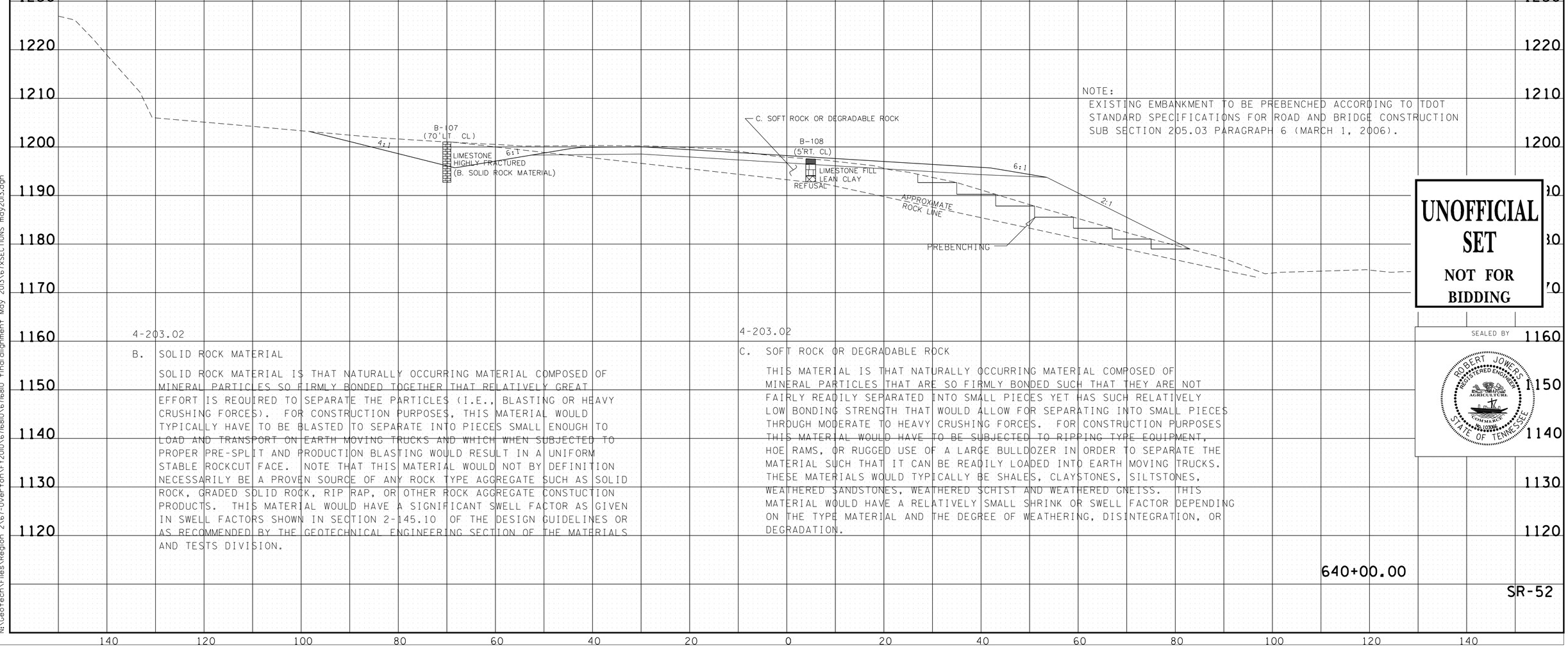
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BD

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 6 (MARCH 1, 2006).

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NOT FOR BIDDING

SEALED BY

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 109268
STATE OF TENNESSEE

4-203.02

B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT 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 CONSTUCTION 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 TESTS DIVISION.

4-203.02

C. SOFT ROCK OR DEGRADABLE ROCK

THIS MATERIAL IS THAT 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 PURPOSES 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 MATERIAL AND THE DEGREE OF WEATHERING, DISINTEGRATION, OR DEGRADATION.

640+00.00

SR-52

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BE

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATION 640+50 TO STATION 656+00

4-203.02

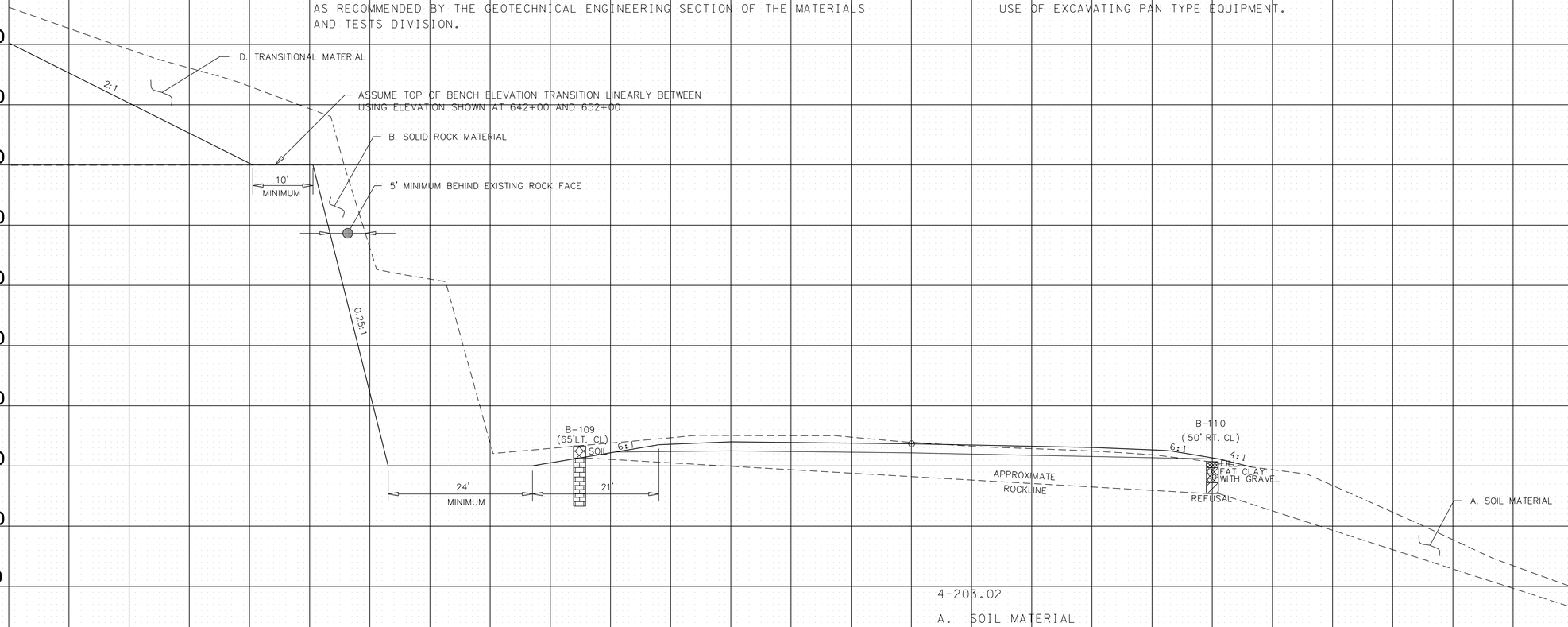
B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT 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 CONSTUCTION 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 TESTS DIVISION.

4-203.02

D. TRANSISTIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF THOSE MATERIALS DESCRIBED ABOVE OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E., SHALE MATERIAL WITH RELATIVELY 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 OR 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.



4-203.02

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT 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 YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

80

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 109065
STATE OF TENNESSEE

642+00.00

SR-52

8/1/2014 10:45:32 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BF

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

REPRESENTATIVE OF STATION 640+50 TO STATION 656+00

4-203.02

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT 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 YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

4-203.02

B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT 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 CONSTUCTION 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 TESTS DIVISION.

4-203.02

D. TRANSISTIONAL MATERIALS

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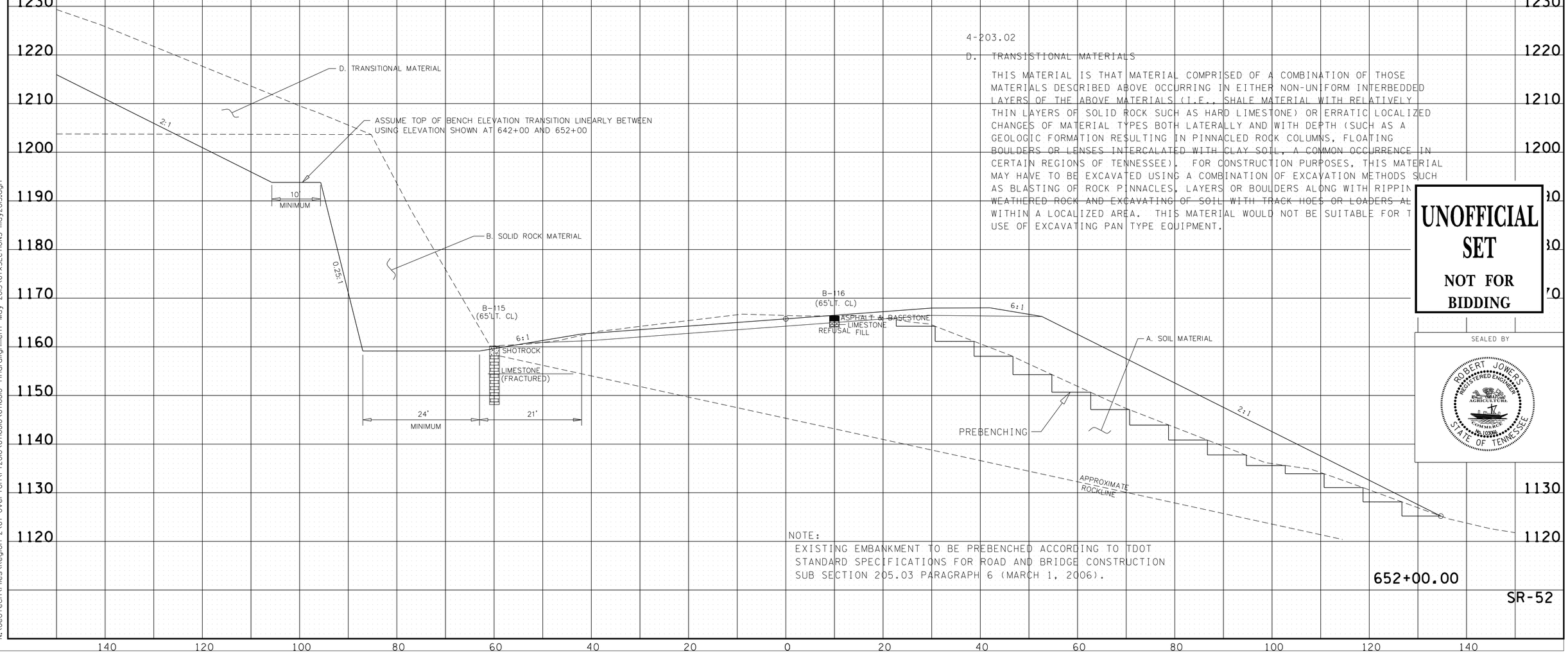

NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 6 (MARCH 1, 2006).

652+00.00

SR-52

UNOFFICIAL SET
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SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102626
STATE OF TENNESSEE

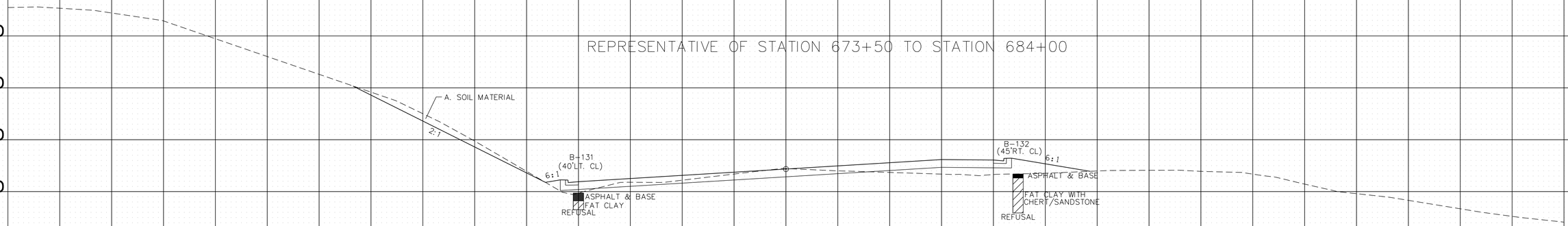
8/1/2014 10:46:05 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67I680\67I680 final alignment May 2013\67xSECTIONS may2013.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BG

TENNESSEE D.O.T. DESIGN DIVISION

FILE NO.

REPRESENTATIVE OF STATION 673+50 TO STATION 684+00



4-203.02

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT 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 YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

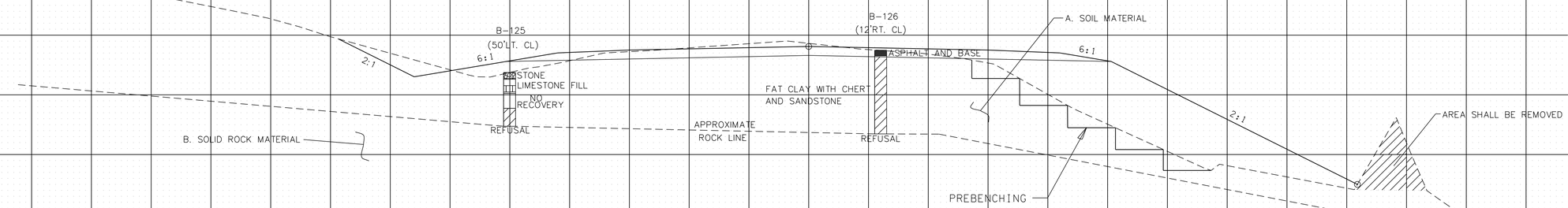
4-203.02

B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT 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 CONSTUCTION 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 TESTS DIVISION.

674+00.00

REPRESENTATIVE OF STATION 662+00 TO STATION 673-50



NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 6 (MARCH 1, 2006).

664+00.00

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
No. 109085
STATE OF TENNESSEE

SR-52

8/1/2014 10:46:52 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168(0)\67168(0) final alignment May 2013\67xSECTIONS may2013.dgn

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

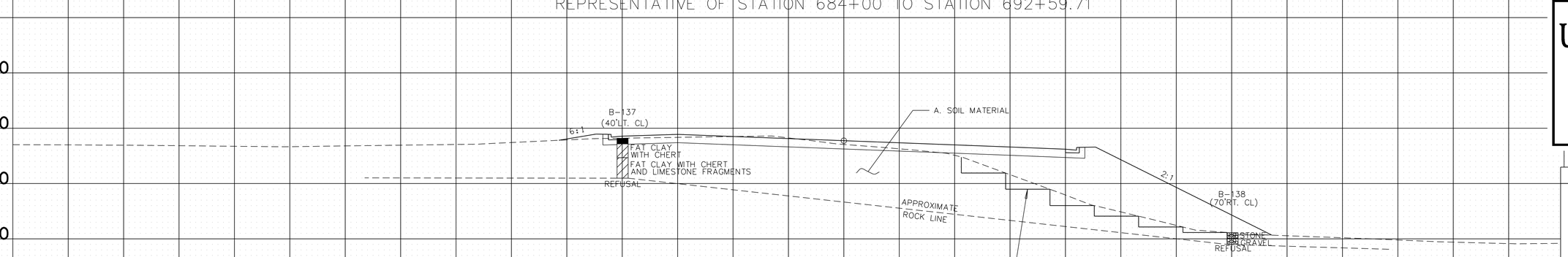
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BH

4-203.02

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT 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 YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

REPRESENTATIVE OF STATION 684+00 TO STATION 692+59.71



NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 6 (MARCH 1, 2006).

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

SR-52

END STA. 686+00.00

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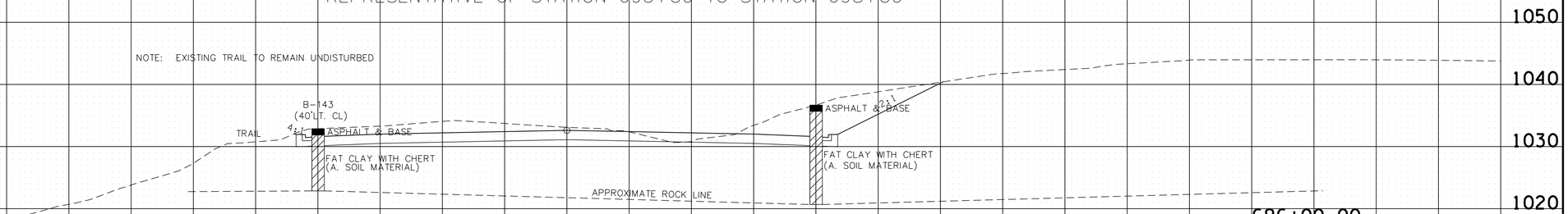
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BJ

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

REPRESENTATIVE OF STATION 695+50 TO STATION 698+50

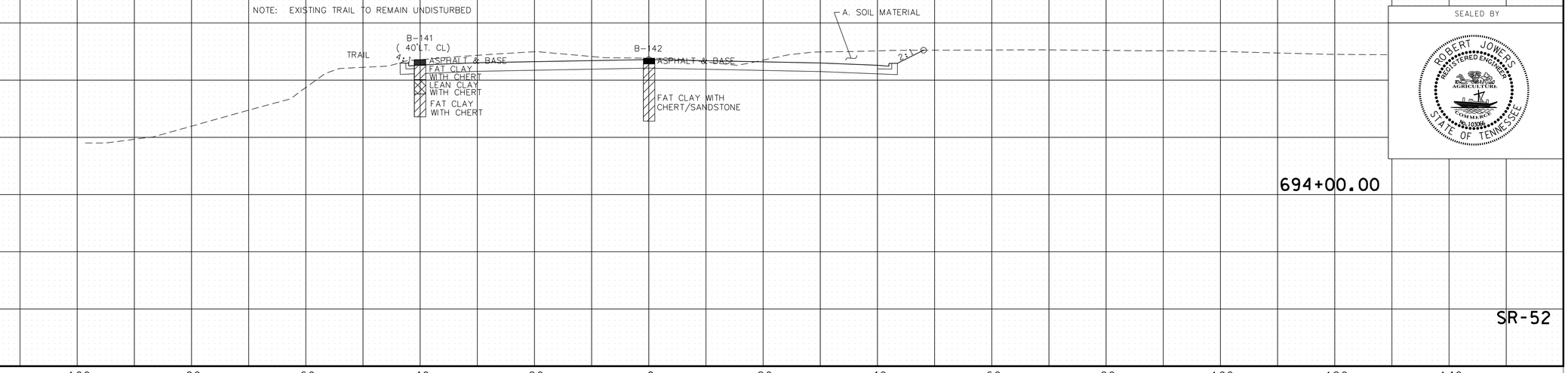


4-203.02

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT 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 YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

REPRESENTATIVE OF STATION 692+60 TO STATION 695+50



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103095
STATE OF TENNESSEE

SR-52

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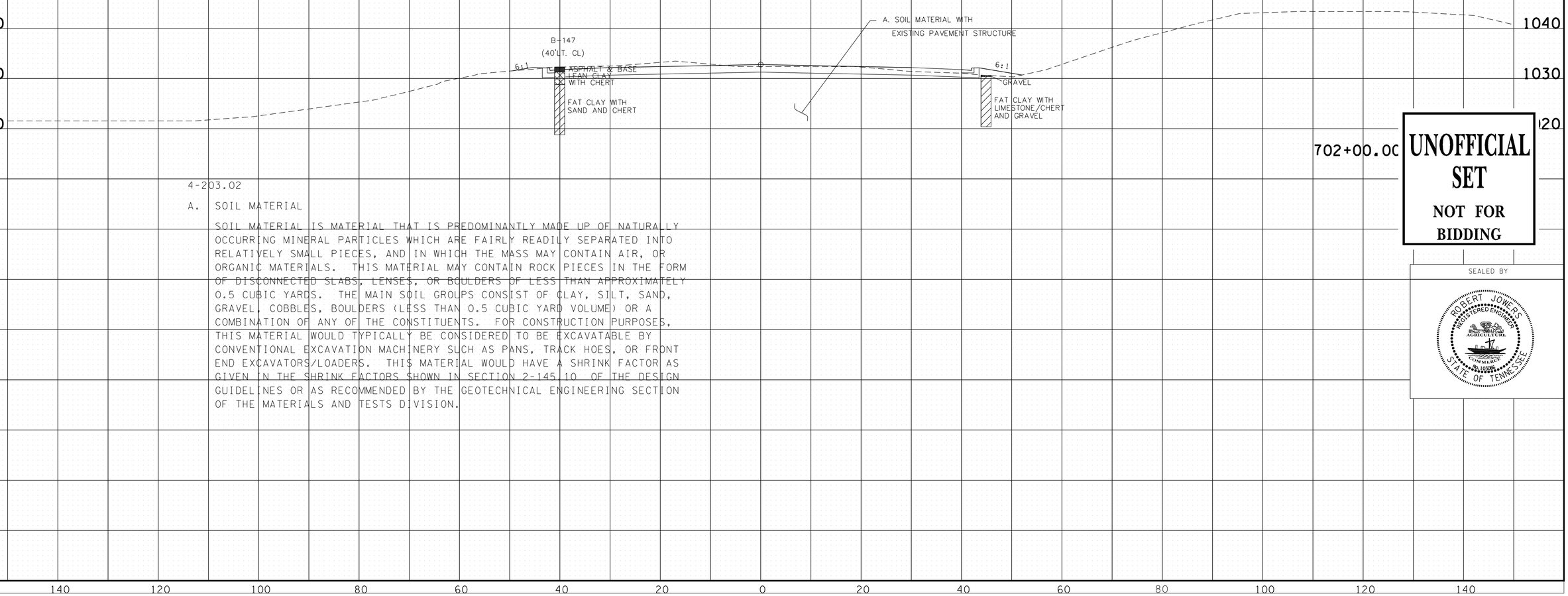
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BK

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

REPRESENTATIVE OF STATION 698+50 TO STATION 703+00



4-203.02

A. SOIL MATERIAL

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UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE

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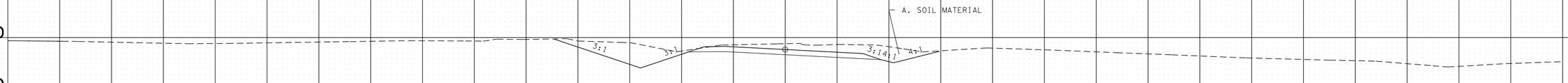
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BL

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

REPRESENTATIVE OF STATIONS 30+00 TO 32+25



4-203.02

A. SOIL MATERIAL

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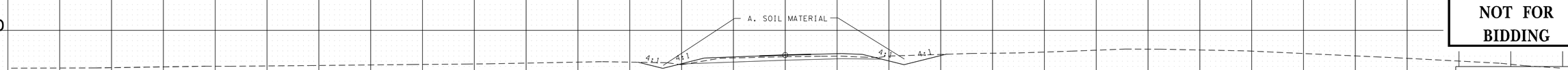
31+00.00
ANDREW COVE RD.

REPRESENTATIVE OF STATIONS 81+00 TO 82+39.84



81+50.00
AIRPORT RD.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 109365
STATE OF TENNESSEE

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

8/1/2014 10:49:28 AM
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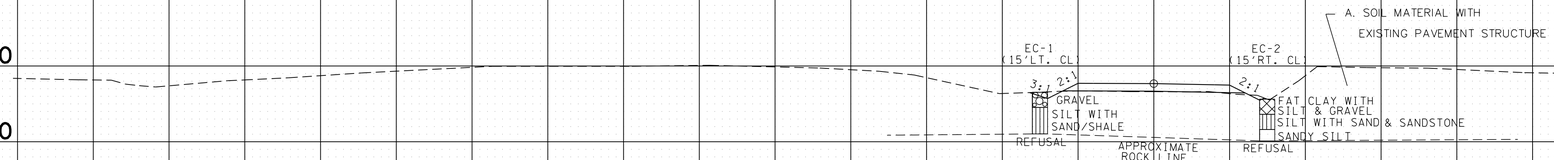
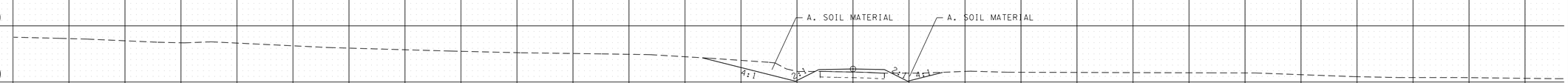
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BM

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



REPRESENTATIVE OF STATIONS 190+30.05 TO 193+00



4-203.02

A. SOIL MATERIAL

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UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

191+00.00
CASH ST.

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8/1/2014 10:50:17 AM
N:\Geotech\Files\Region 2\67-Overton\FY2010\67168I0\67I68I0 finalalignment May 2013\67xSECTIONS may2013.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BN

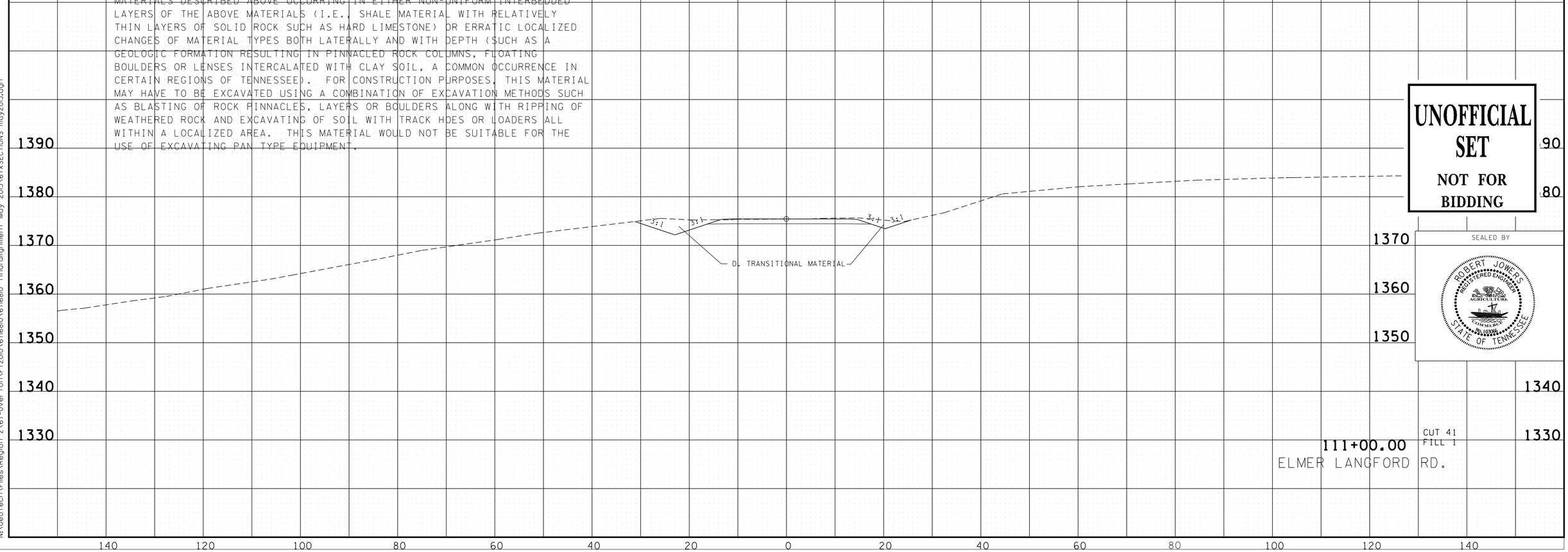
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

4-203.02

D. TRANSITIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF THOSE MATERIALS DESCRIBED ABOVE OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E., SHALE MATERIAL WITH RELATIVELY 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 OR 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.



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ROBERT JOWERS
REGISTERED ENGINEER
No. 109695
STATE OF TENNESSEE

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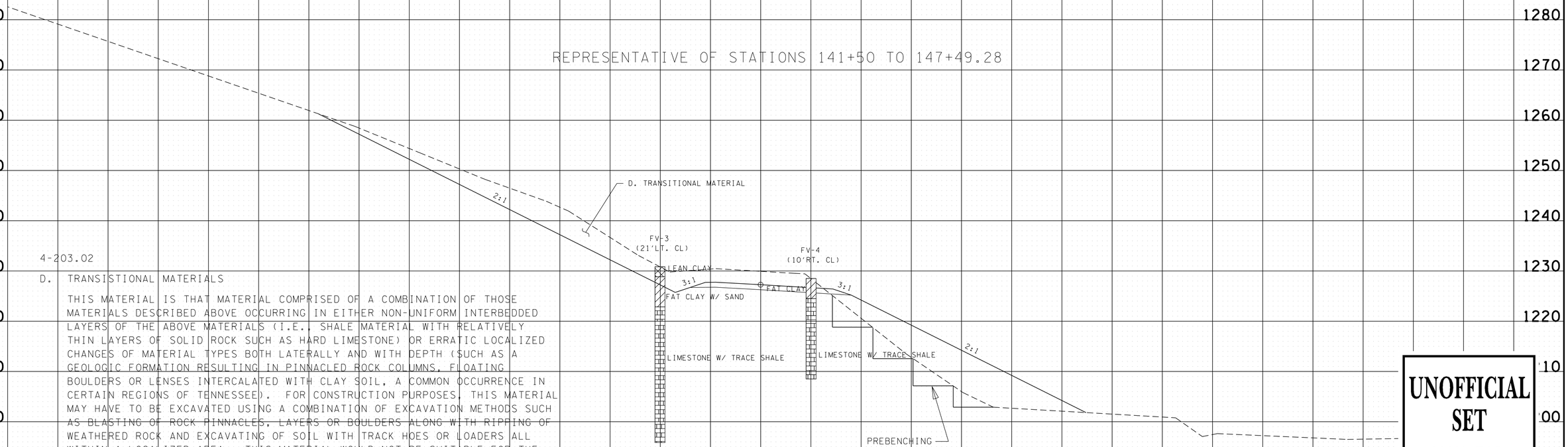
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BP

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

REPRESENTATIVE OF STATIONS 141+50 TO 147+49.28



4-203.02

D. TRANSISTIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF THOSE MATERIALS DESCRIBED ABOVE OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E., SHALE MATERIAL WITH RELATIVELY 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 OR 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.

NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 6 (MARCH 1, 2006).

145+00.00

FAIRVIEW LN.

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ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
No. 109095
STATE OF TENNESSEE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BQ

FILE NO.

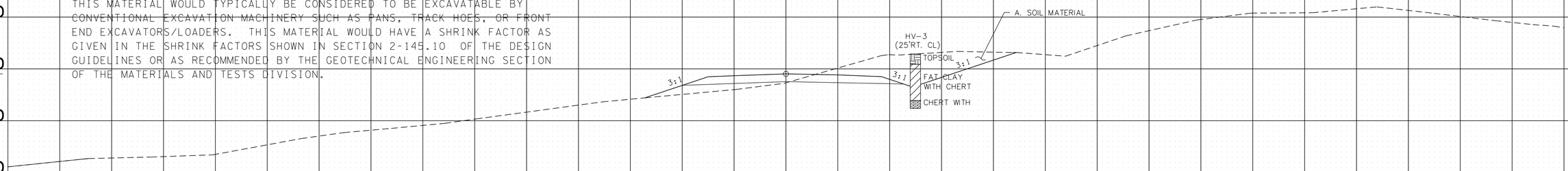
TENNESSEE D.O.T.
DESIGN DIVISION

4-203.02

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT 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 YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

REPRESENTATIVE OF STATION 161+00 TO STATION 164+52.42



163+00.00

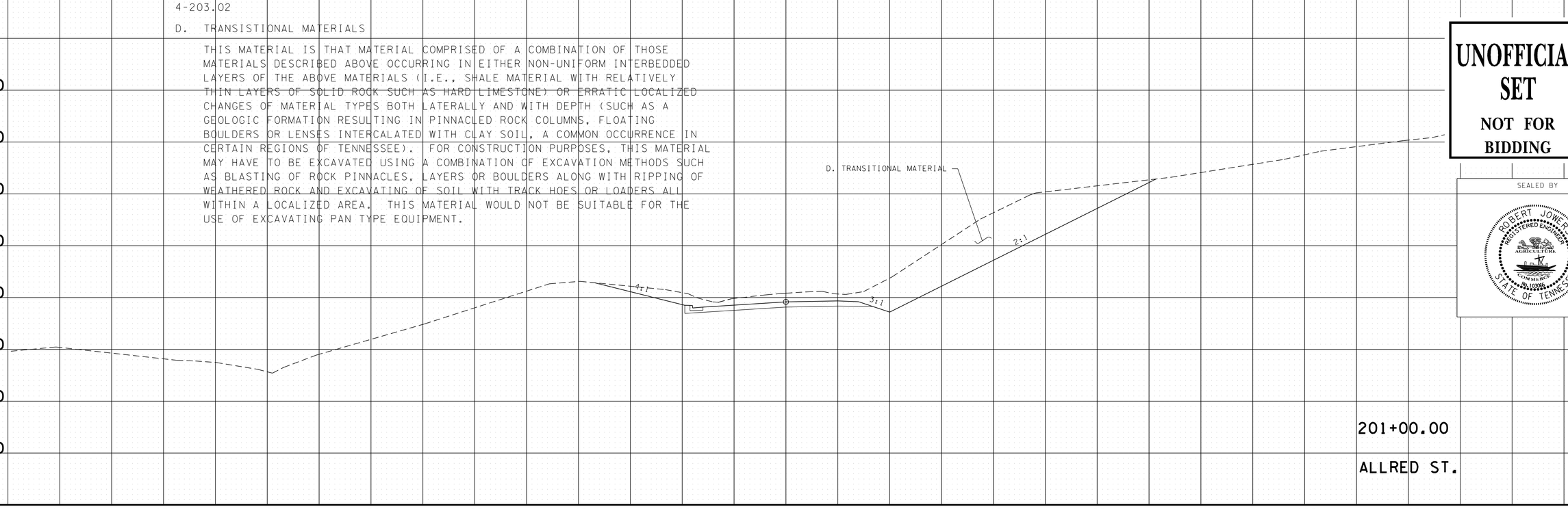
HIDDEN VALLEY GOLF AND COUNTRY CLUB LN.

REPRESENTATIVE OF STATION 200+00 TO STATION 201+69.95

4-203.02

D. TRANSISTIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF THOSE MATERIALS DESCRIBED ABOVE OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E., SHALE MATERIAL WITH RELATIVELY 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 OR 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.



201+00.00

ALLRED ST.

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ROBERT JOWERS
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 109355

8/1/2014 10:52:18 AM
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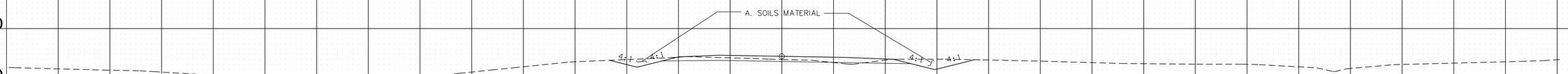
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BR

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

REPRESENTATIVE OF STATIONS 40+50 TO 43+16.34



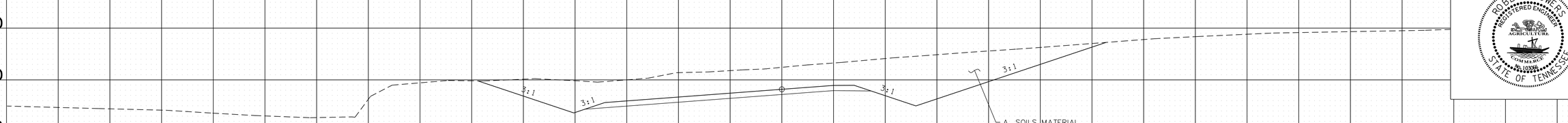
4-203.02

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT 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 YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD 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 TESTS DIVISION.

42+00.00
OLD S.R. 52

REPRESENTATIVE OF STATIONS 100+50 TO 122+36.29



103+00.00
OLD ALLONS RD.

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SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 109062
STATE OF TENNESSEE

1400
1390
1380
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1360

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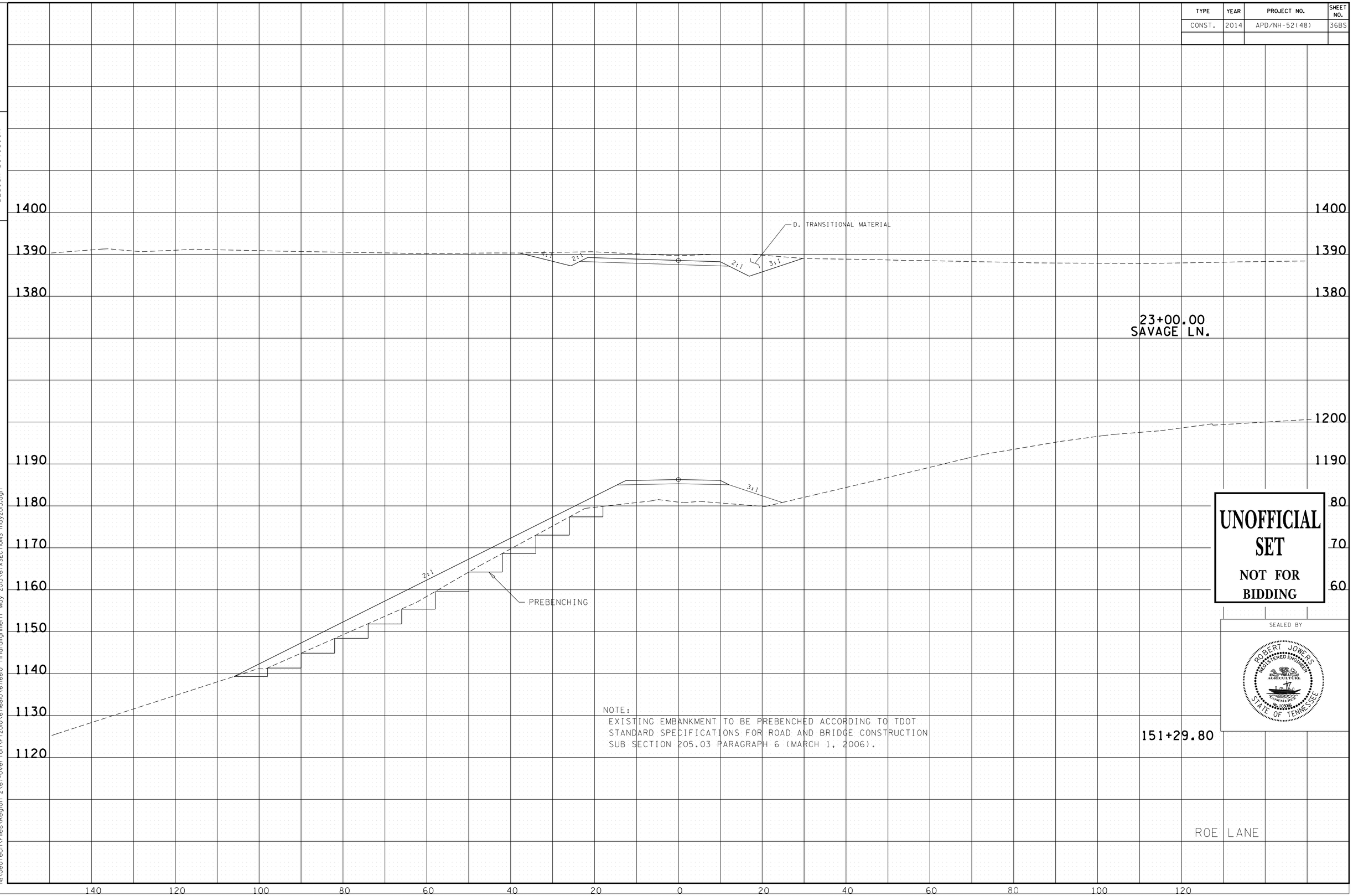
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36BS

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 6 (MARCH 1, 2006).

UNOFFICIAL SET
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REGISTERED ENGINEER
No. 103035
STATE OF TENNESSEE

8/1/2014 10:53:38 AM
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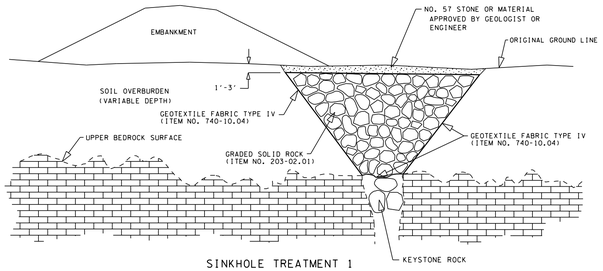
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	36TB



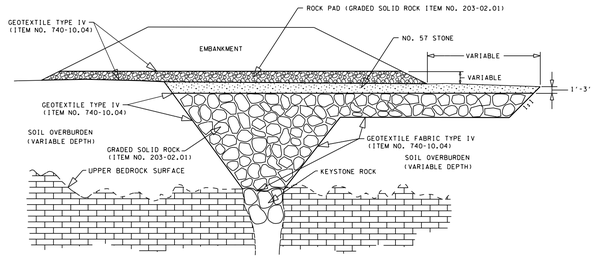
SINKHOLE TREATMENT 1

SINKHOLE TREATMENT 1, ACTIVE

NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. THE TOP 1-3 FT. OF MATERIAL SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION:

1. EXCAVATE SINKHOLE TO DEFINE OPENING IN BEDROCK MAKING SURE TO REMOVE ALL SOIL AND DEBRIS.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. PLACE THE GEOTEXTILE FABRIC TYPE IV ON EXCAVATED SLOPES AND BASE OF SINKHOLE.
4. BACKFILL TO A MAXIMUM OF 1 FT. OF THE SPECIFIED GRADE WITH GRADED SOLID ROCK (CLASSIFICATION 203.02, BORROW EXCAVATION).
5. BACKFILL TO GRADE WITH A MINIMUM OF 1 FT. OF NO.57 STONE ON TOP OF THE GRADED SOLID ROCK AND GEOTEXTILE FABRIC TYPE IV.



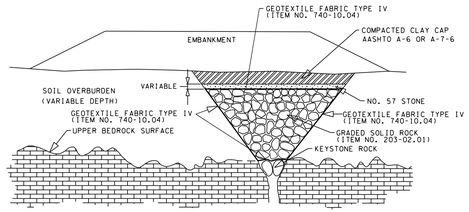
SINKHOLE TREATMENT 1A

SINKHOLE TREATMENT 1A ACTIVE

NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. THE TOP 1-3 FT. MATERIAL SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION:

1. EXCAVATE SINKHOLE TO DEFINE OPENING IN BEDROCK MAKING SURE TO REMOVE ALL SOIL AND DEBRIS.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. PLACE THE GEOTEXTILE FABRIC TYPE IV ON EXCAVATED SLOPES AND BASE OF SINKHOLE.
4. BACKFILL TO WITHIN 1.5-3 FT.OF THE SPECIFIED GRADE WITH GRADED SOLID ROCK (CLASSIFICATION 203-02.01 BORROW EXCAVATION).
5. PLACE THE GEOTEXTILE FABRIC TYPE IV ON TOP OF GRADED SOLID ROCK.
6. BACKFILL TO GRADE WITH NO. 57 STONE.
7. CONSTRUCT EMBANKMENT INCLUDING ANY REQUIRED ROCK PAD IN ACCORDANCE WITH CONTRACT PLANS AND CROSS-SECTIONS.



SINKHOLE TREATMENT 2

SINKHOLE TREATMENT 2 AND 2A , INACTIVE

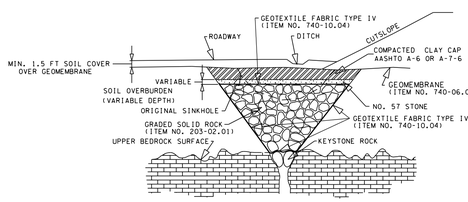
NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. ANY CHANGE IN THE NO. 57 STONE FILL OR THE CLAY CAP SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION:

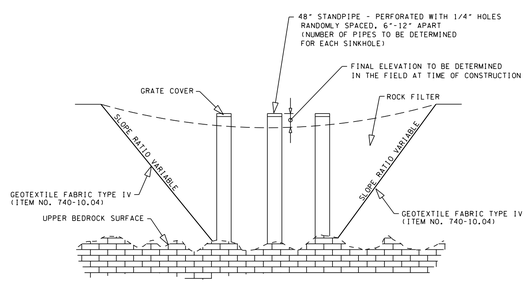
1. EXCAVATE SINKHOLE TO DEFINE OPENING IN BEDROCK MAKING SURE TO REMOVE ALL SOIL AND DEBRIS.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. PLACE THE GEOTEXTILE FABRIC TYPE IV ON EXCAVATED SLOPES AND BASE OF SINKHOLE.
4. BACKFILL WITH GRADED SOLID ROCK (CLASSIFICATION 203-02. BORROW EXCAVATION) UP TO SPECIFIED GRADE.
5. PLACE GEOTEXTILE FABRIC TYPE IV ON TOP OF GRADED SOLID ROCK. PLACE NO. 57 STONE ON TOP OF GETEXTILE FABRIC.
6. CONSTRUCT COMPACTED CLAY CAP. SOIL SHOULD BE OF TYPE AASHTO A-6 OR A-7-6.

FOR 2A ACTIVE ONLY

7. PLACE GEOMEMBRANE ON TOP OF SOIL CAP BEFORE CONSTRUCTION OF ANY OVERLYING STRUCTURES OR EMBANKMENTS. THERE SHOULD BE A MINIMUM OF 1.5 FT. OF SOIL PLACED OVER THE MEMBRANE.
8. DITCH SHOULD BE PAVED OR LINED WITH A GEOMEMBRANE.



SINKHOLE TREATMENT 2A



SINKHOLE TREATMENT 3

SINKHOLE TREATMENT 3, ACTIVE

NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

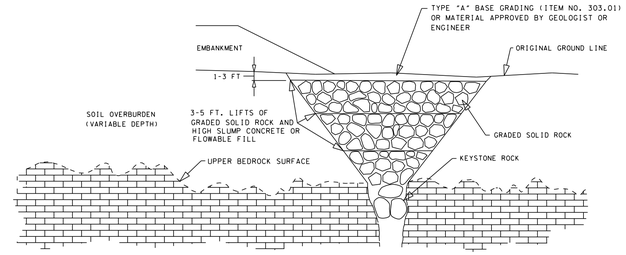
SEQUENCE OF CONSTRUCTION

1. EXCAVATE SOIL DOWN TO BEDROCK OR TO LIMITS SPECIFIED BY THE ENGINEER OR GEOLOGIST.
2. LOCATE ALL OPENINGS WITHIN THE PITS. REMOVE ALL LOOSENED MATERIAL. ALL EXCAVATED MATERIALS SHALL BE REMOVED FROM THE BASIN.
3. INSTALL 48" DIAMETER VERTICAL STANDPIPES OVER THE LOCATED OPENINGS. THESE PIPES SHOULD BE PERFORATED FOR AT LEAST THE LOWER 5 FT. WITH 1/4" HOLES SPACED 6-12" APART.
4. PLACE GEOTEXTILE FABRIC TYPE IV AS SHOWN OR AS DIRECTED BY THE ENGINEER OR GEOLOGIST TO PREVENT THE LATERAL INFLOW OF FINES.
5. BACKFILL WITH A ROCK FILTER TO A HEIGHT OF 3.5 FT. BELOW THE TOP OF THE STANDPIPE.

   THE ROCK FILTER MATERIAL SHALL CONSIST OF A MIXTURE OF LIMESTONE SHOT ROCK AND CRUSHED STONE TO MEET THE FOLLOWING GRADATION:

SIZE RANGE (ALONG ITS MAXIMUM DIMENSION)	VOLUME
2'-1'	60-40%
1'-6"	40-20%
6"-2"	20-10%
LESS THAN 2"	5-0%

6. THE ROCK FILTER MATERIAL SHALL BE PLACED WITH A CLAMSHELL. NO END DUMPING WILL BE PERMITTED.



SINKHOLE TREATMENT 4

SINKHOLE TREATMENT 4,INACTIVE

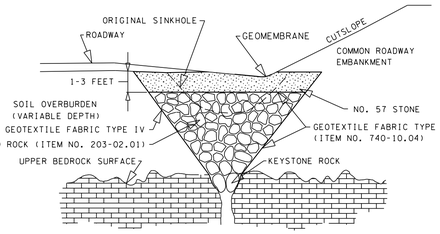
NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. ANY CHANGE IN THE THE NO.57 STONE FILL SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION

1. EXCAVATE SINKHOLE TO DEFINE OPENING IN BEDROCK MAKING SURE TO REMOVE ALL SOIL DEBRIS.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. ALTERNATE LAYERS OF GRADED SOLID ROCK (CLASSIFICATION 203-02. BORROW EXCAVATION) 3-5 FT. IN DEPTH AND HIGH SLUMP CONCRETE (OR FLOWABLE FILL). HIGH SLUMP CONCRETE SHALL BE CONCRETE WITH A SLUMP OF 7-9"..

   HIGH SLUMP CONCRETE OR FLOWABLE FILL SHALL BE APPLIED AFTER A LAYER OF GRADED SOLID ROCK UNTIL THE CONCRETE (OR FLOWABLE FILL) JUST COVERS THE GRADED ROCK LAYER. THE NEXT LAYER OF GRADED SOLID ROCK SHALL BE PLACED IMMEDIATELY AFTER THE PLACEMENT OF THE CONCRETE (OR FLOWABLE FILL). THE PURPOSE OF THIS IS TO INTERMIX THE MATERIALS. THE WORK SHALL NOT BE INTERRUPTED AFTER THE PLACEMENT OF CONCRETE (OR FLOWABLE FILL) EXCEPT FOR THE TOP LAYER. IF WORK CANNOT BE FINISHED IN A SPECIFIED INTERVAL, WORK MAY BE STOPPED ONLY AFTER A COMPLETE LAYER OF GRADED SOLID ROCK HAS BEEN PLACED.

4. AFTER THE FINAL LAYER OF CONCRETE (OR FLOWABLE FILL) HAS BEEN SET, BACKFILL TO GRADE WITH TYPE "A" BASE GRADING (ITEM NO. 303.01) OR OTHER MATERIAL APPROVED BY THE ENGINEER OR GEOLOGIST.



SINKHOLE TREATMENT 5

SINKHOLE TREATMENT 5 ACTIVE

NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. ANY CHANGE IN THE NO. 57 STONE FILL SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION:

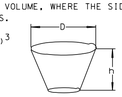
1. EXCAVATE SINKHOLE TO DEFINE OPENING IN BEDROCK MAKING SURE TO REMOVE ALL SOIL AND DEBRIS. COVER ALL EXPOSED SOIL SURFACES WITH GEOTEXTILE FABRIC (ITEM NO. 740-10.04) PRIOR TO BACKFILLING.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. BACKFILL WITH GRADED SOLID ROCK (CLASSIFICATION 203.02. BORROW EXCAVATION) UP TO 1-3 FEET OF EXISTING DITCHLINE GRADE.
4. PLACE GEOTEXTILE FABRIC TYPE IV ON TOP OF GRADED SOLID ROCK PLACE NO. 57 STONE ON TOP OF GEOTEXTILE FABRIC.
5. DITCH SHOULD BE LINED WITH A GEOMEMBRANE AND COVERED WITH A MINIMUM OF 6 INCHES OF MACHINED RIP-RAP (CLASS A-3).

ITEM NO. 203-02.01 GRADED SOLID ROCK

BORROW EXCAVATION (GRADED SOLID ROCK) SHALL CONSIST OF THE REMOVAL AND SATISFACTORY PLACEMENT OF SOUND, NON-DEGRADABLE ROCK WITH A MAXIMUM SIZE OF 3 FT. (1 M) . AT LEAST 50 PERCENT OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1 FT.(30 CM) AND 3 FT. (1 M) IN DIAMETER AND NO GREATER THAN 10 PERCENT SHALL BE LESS THAN 2 IN. (50 MM) IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUI-DIMENSIONAL IN SHAPE. THIN, SLABBY MATERIAL WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL SCREENING PROCESS THAT PRODUCES THE REQUIRED GRADATION. WHEN THE MATERIAL IS SUBJECTED TO FIVE ALTERATIONS OF THE SODIUM SULFATE SOUNDNESS TEST (AASHTO T 104), THE WEIGHTED PERCENTAGE OF LOSS SHALL BE NOT MORE THAN 12. THE MATERIAL SHALL BE APPROVED BY THE ENGINEER BEFORE USE.

EQUATION FOR ESTIMATING SINKHOLE VOLUME, WHERE THE SIDES OF THE SINKHOLE ARE AT 1:1 SLOPES.

$$\text{VOL. } 1{:}1 \approx 0.130^3 - (0.5D - h)^3$$



UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SINKHOLE STANDARD DRAWINGS

SINKHOLE TREATMENT ILLUSTRATIONS

1, 1A, 2, 2A, 3, 4 AND 5

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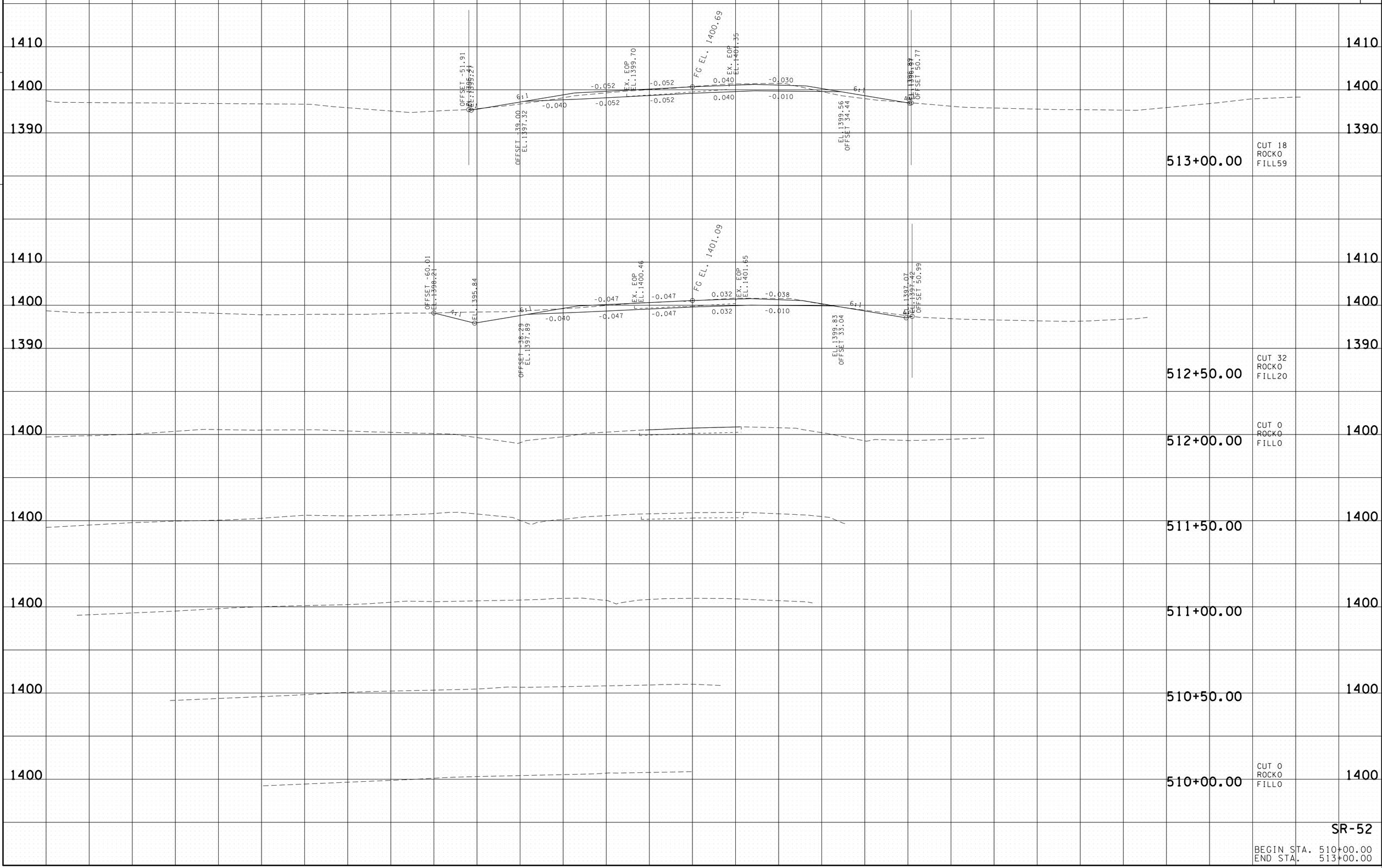
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	30
CONST.	2014	APD/NH-52(48)	37

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



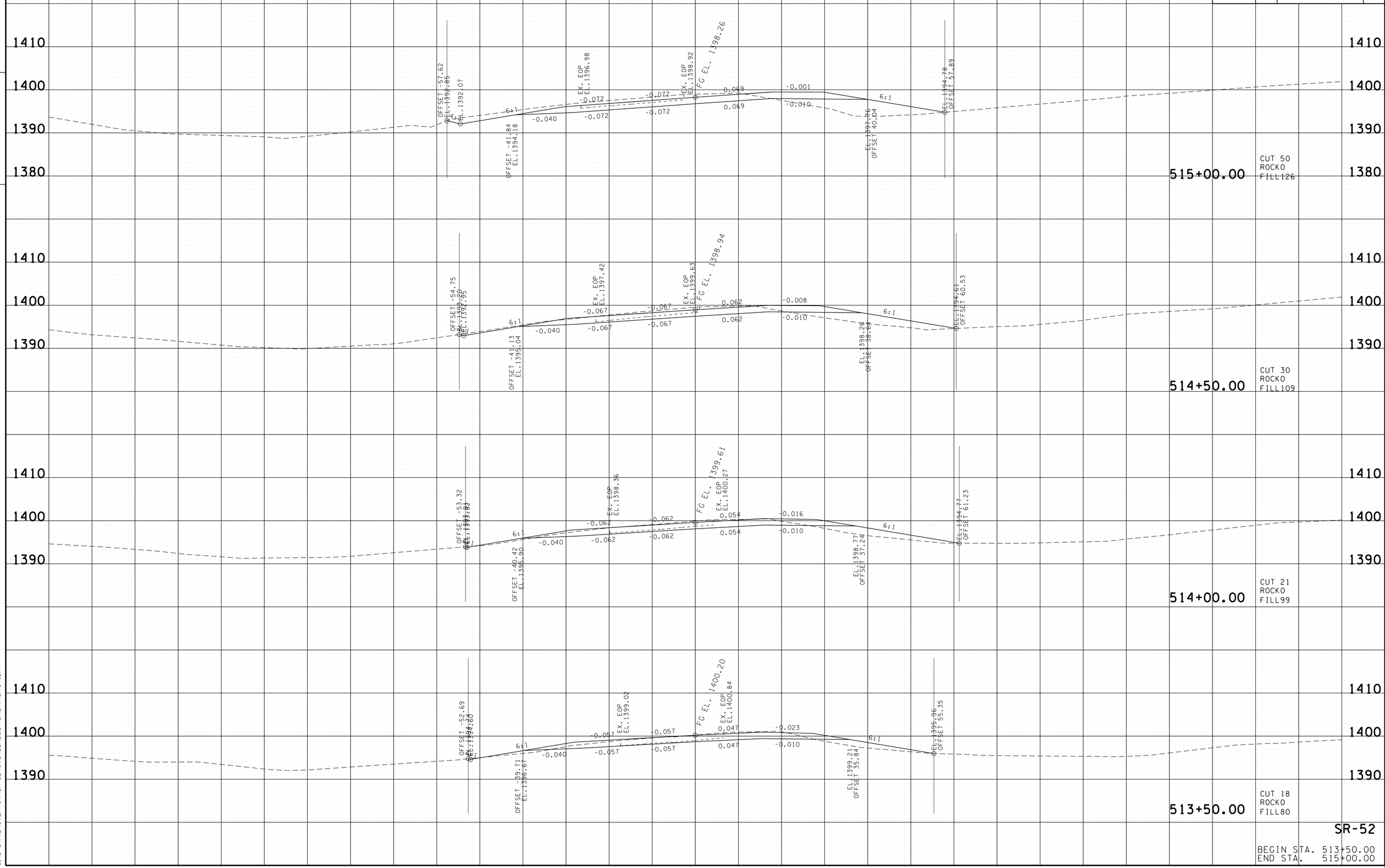
SR-52

BEGIN STA. 510+00.00
END STA. 513+00.00

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	31
CONST.	2014	APD/NH-52(48)	38

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



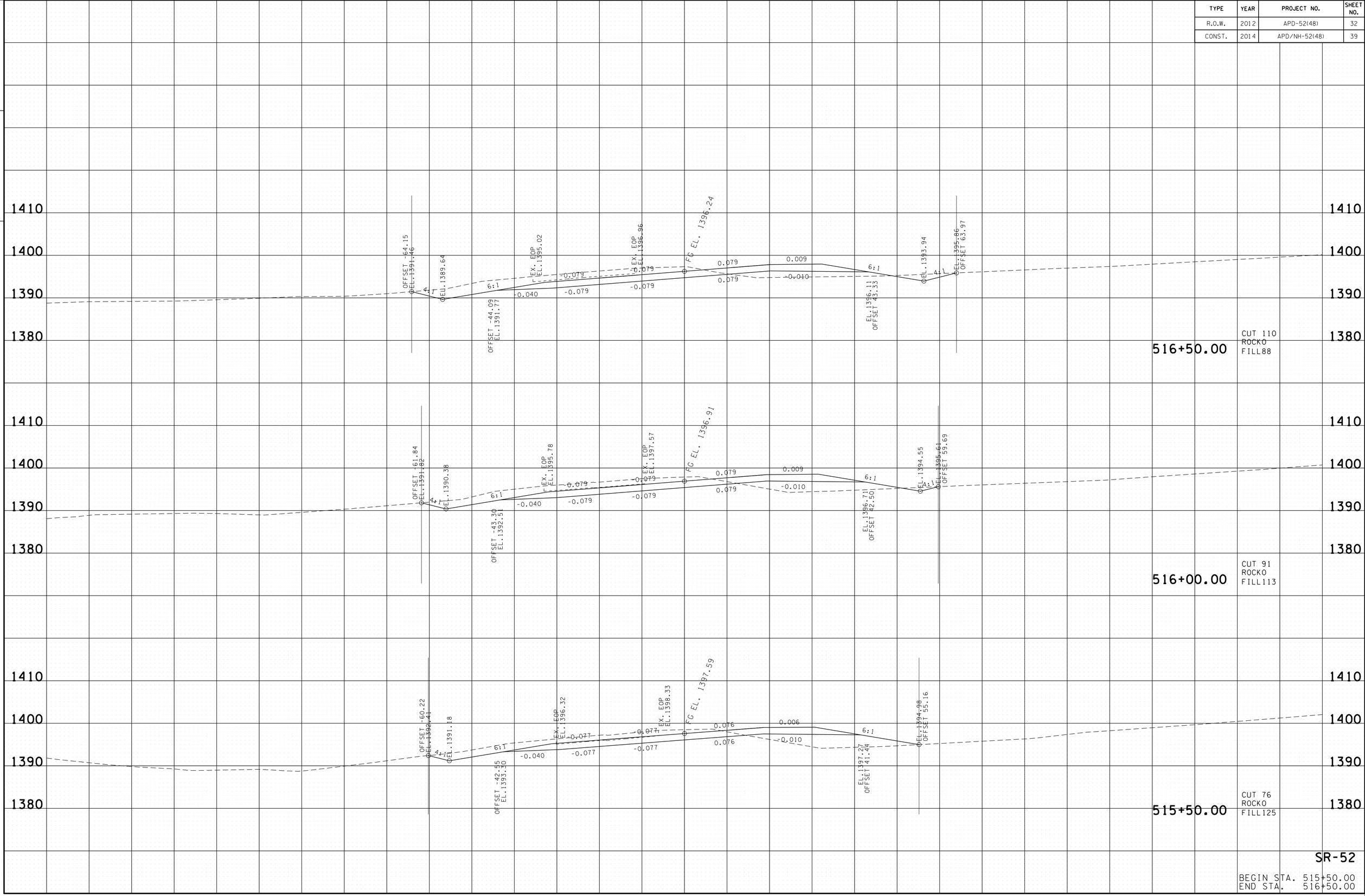
SR-52

BEGIN STA. 513+50.00
END STA. 515+00.00

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	32
CONST.	2014	APD/NH-52(48)	39

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



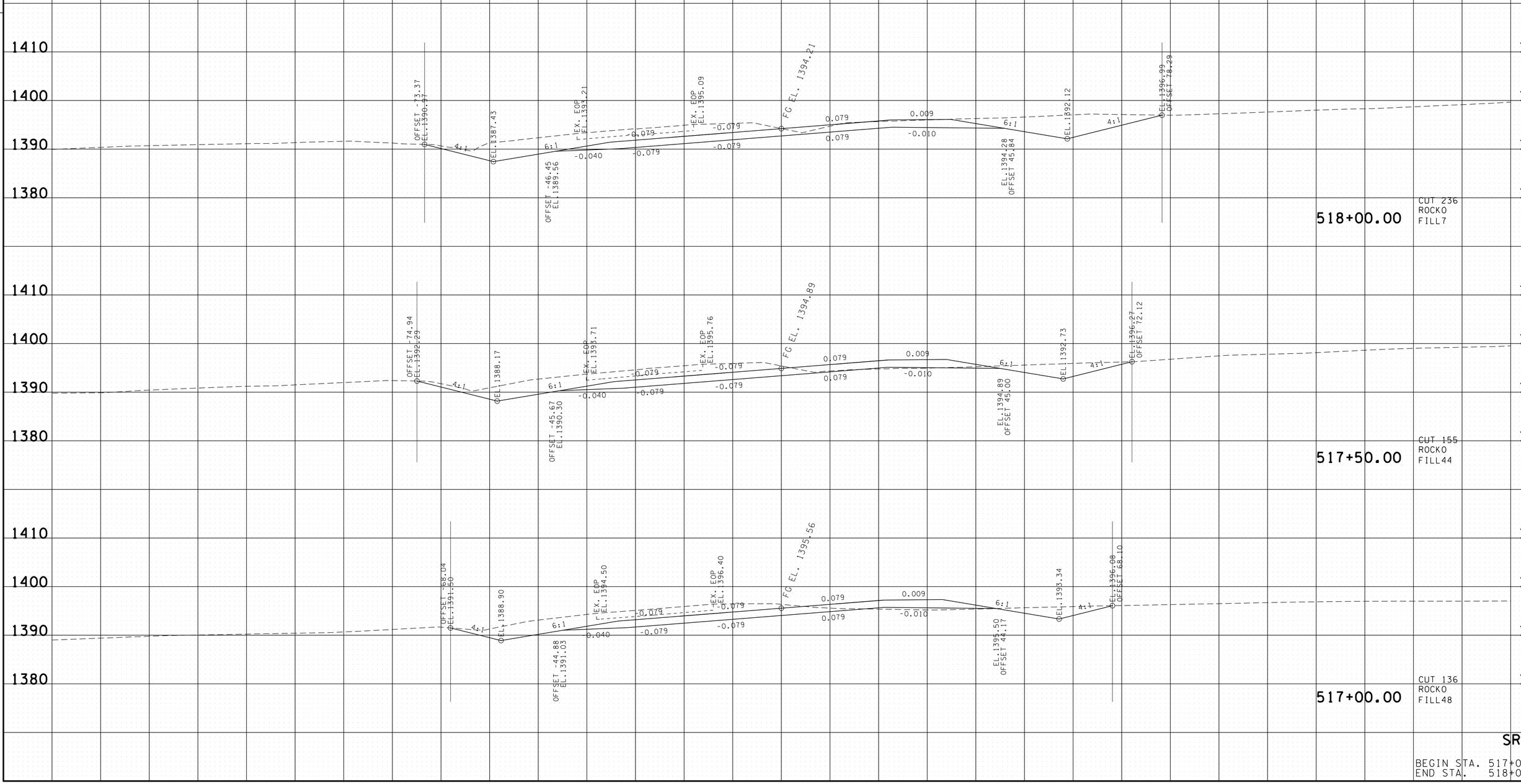
SR-52

BEGIN STA. 515+50.00
END STA. 516+50.00

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	33
CONST.	2014	APD/NH-52(48)	40

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



SR-52

BEGIN STA. 517+00.00
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22-JAN-2015 07:52
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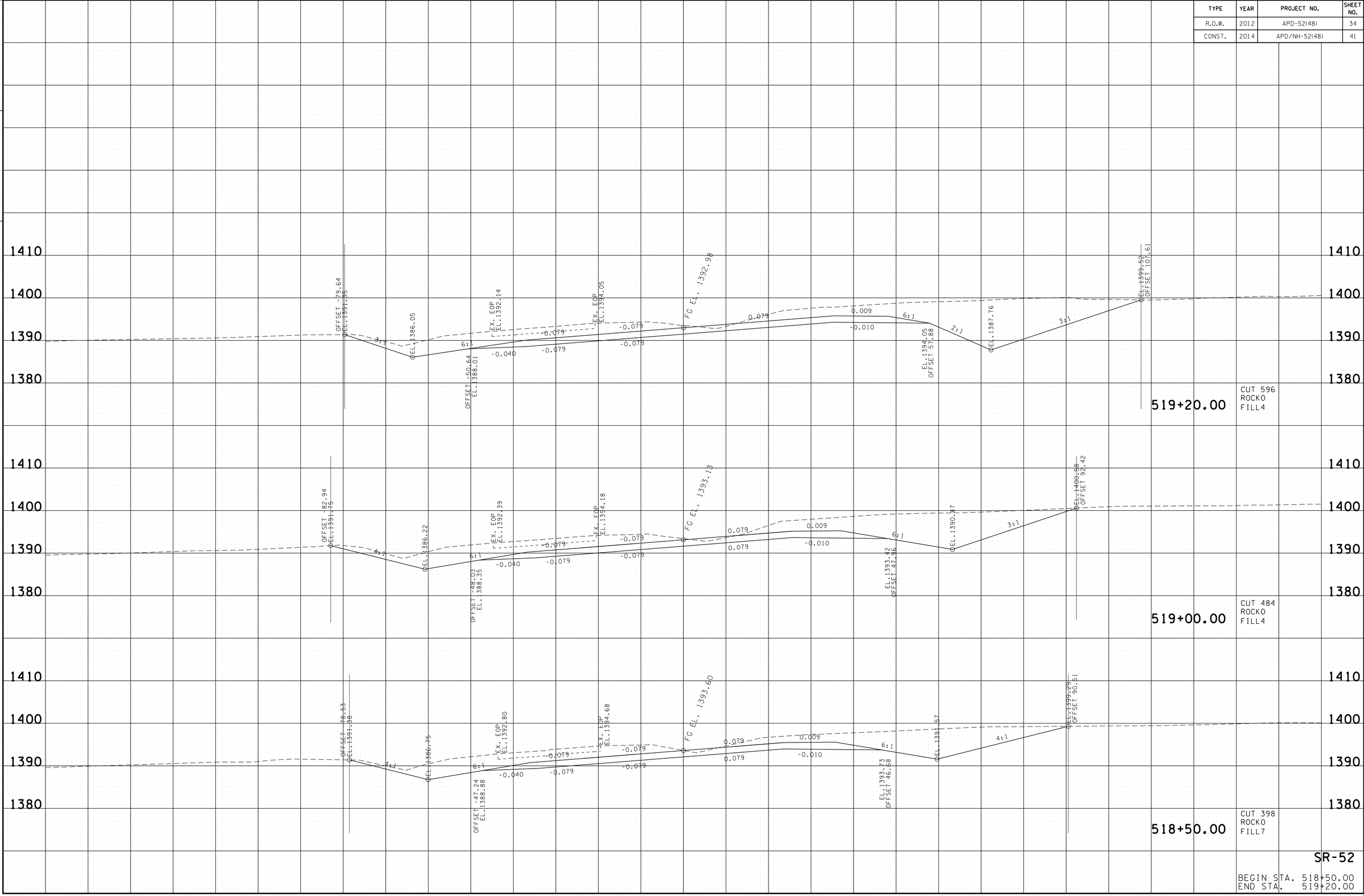
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	34
CONST.	2014	APD/NH-52(48)	41

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



SR-52

BEGIN STA. 518+50.00
END STA. 519+20.00

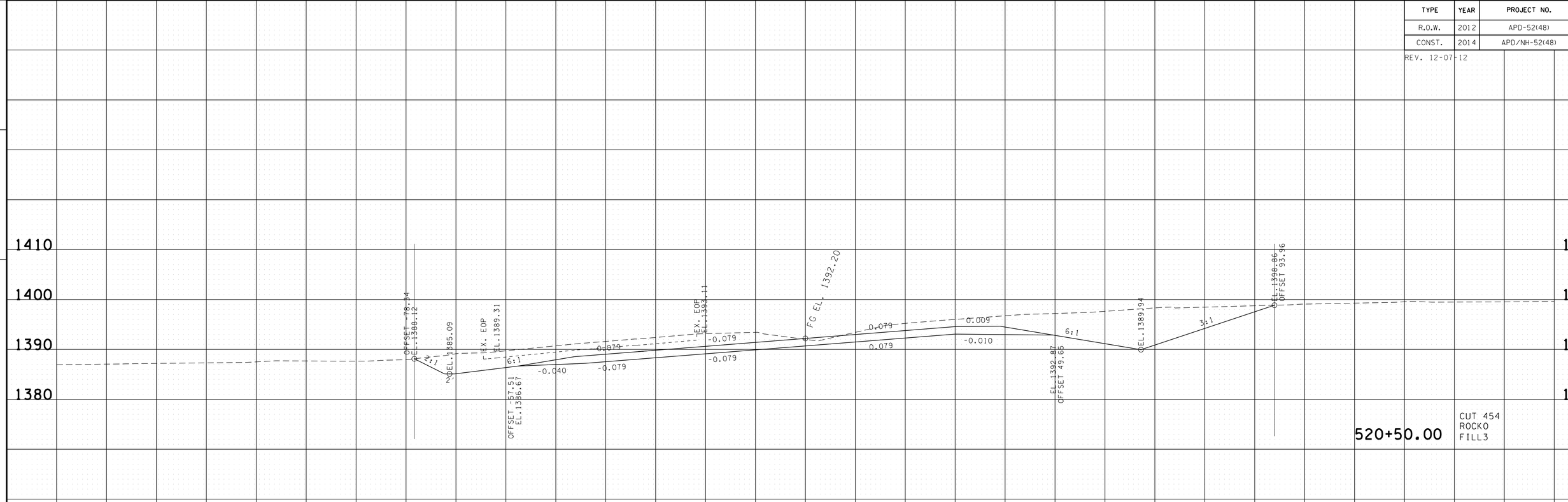
22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	35
CONST.	2014	APD/NH-52(48)	42

REV. 12-07-12



SR-52

BEGIN STA. 519+50.00
END STA. 520+50.00

22-JAN-2015 07:52
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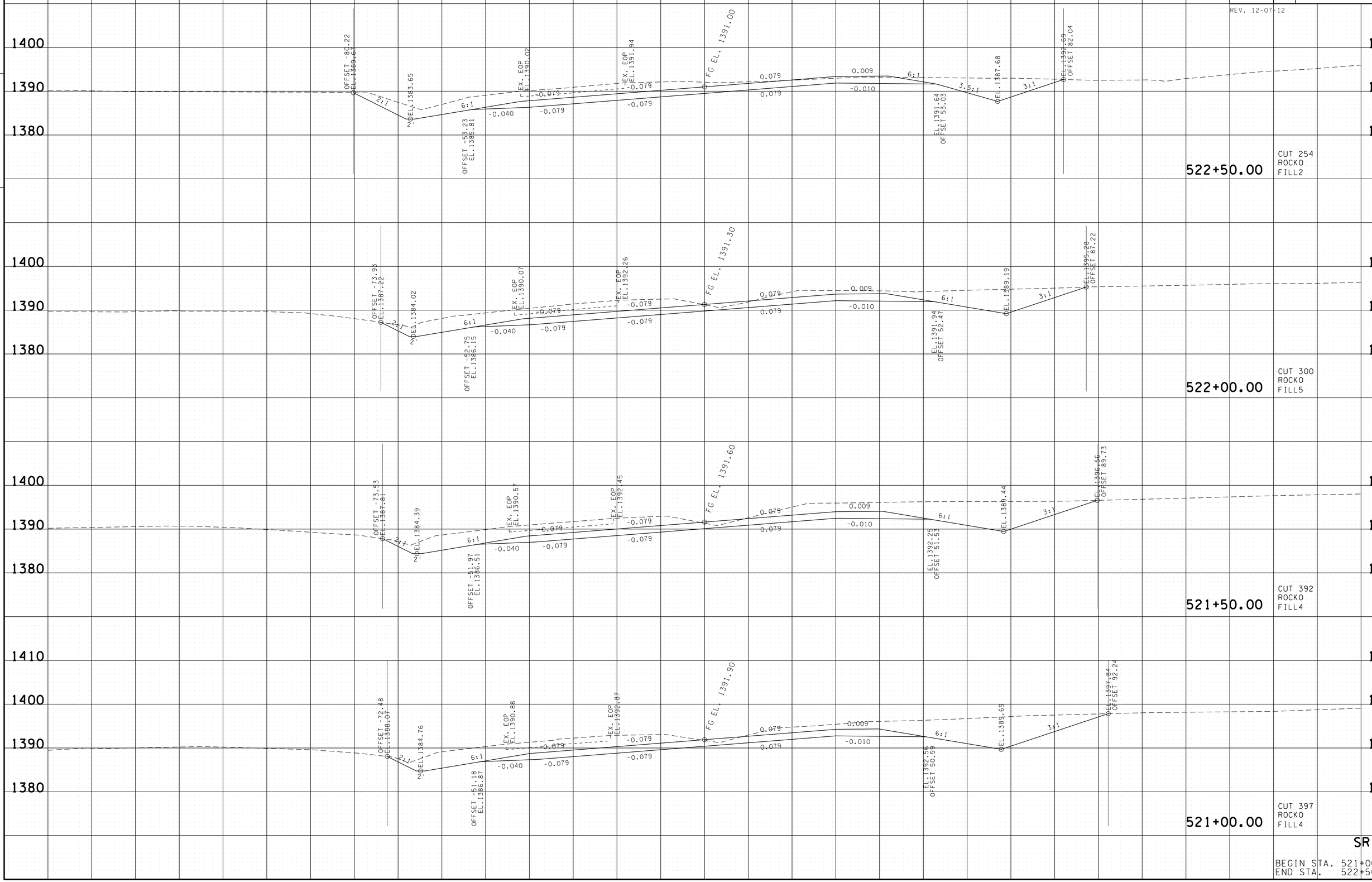
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	36
CONST.	2014	APD/NH-52(48)	43

REV. 12-07-12

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



SR-52

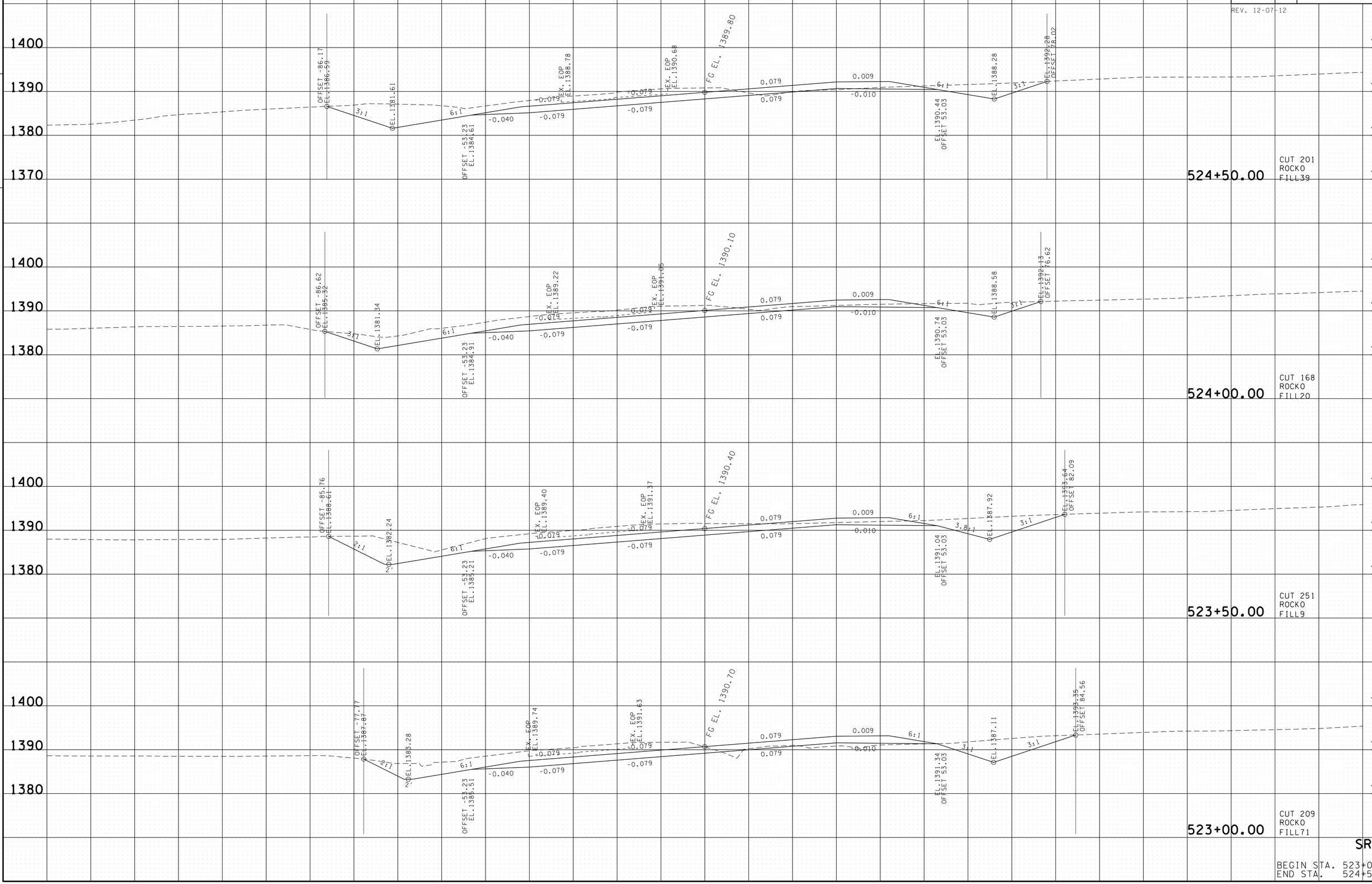
BEGIN STA. 521+00.00
END STA. 522+50.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	37
CONST.	2014	APD/NH-52(48)	44

REV. 12-07-12

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



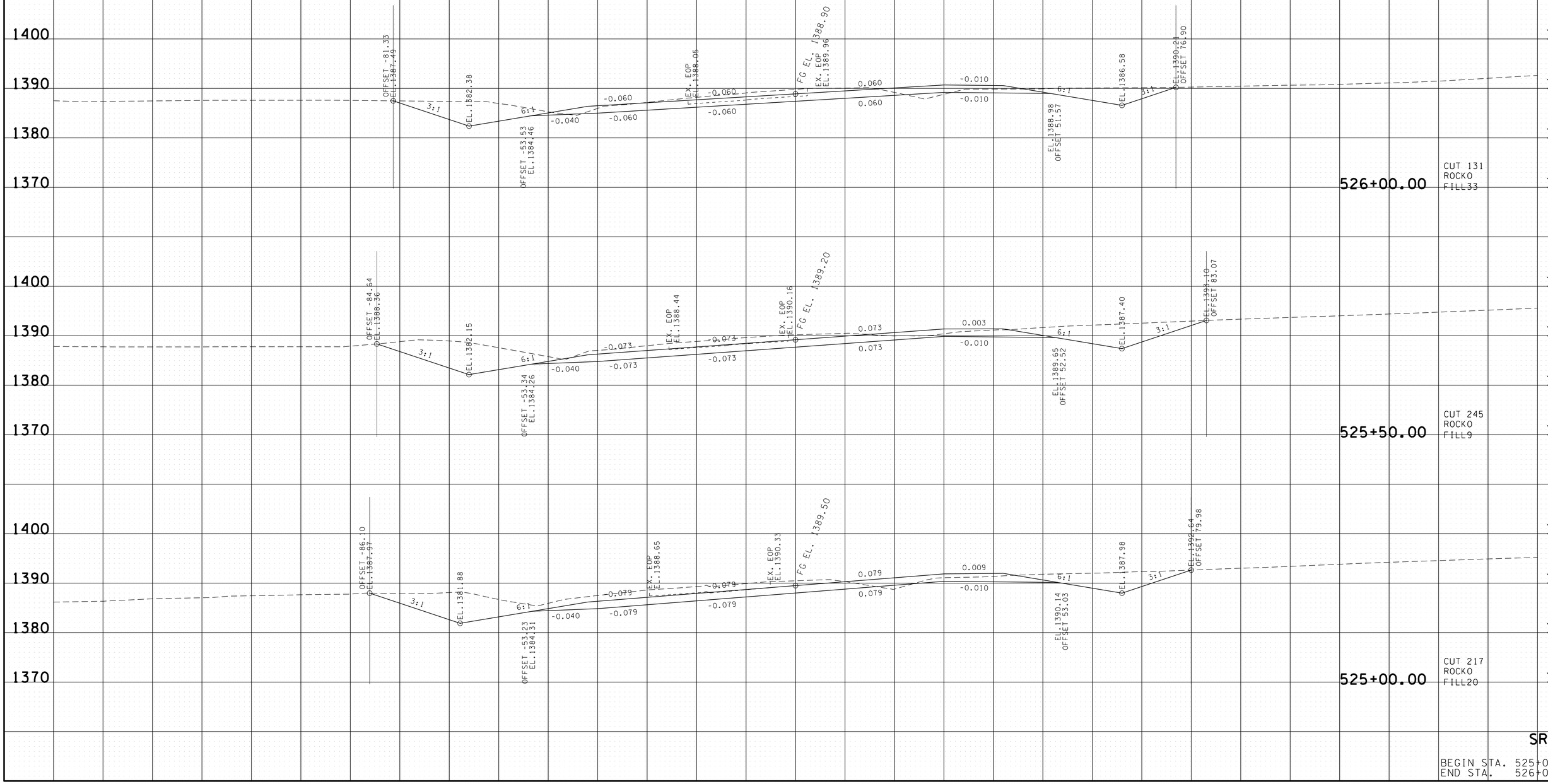
SR-52

BEGIN STA. 523+00.00
END STA. 524+50.00

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	38
CONST.	2014	APD/NH-52(48)	45

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



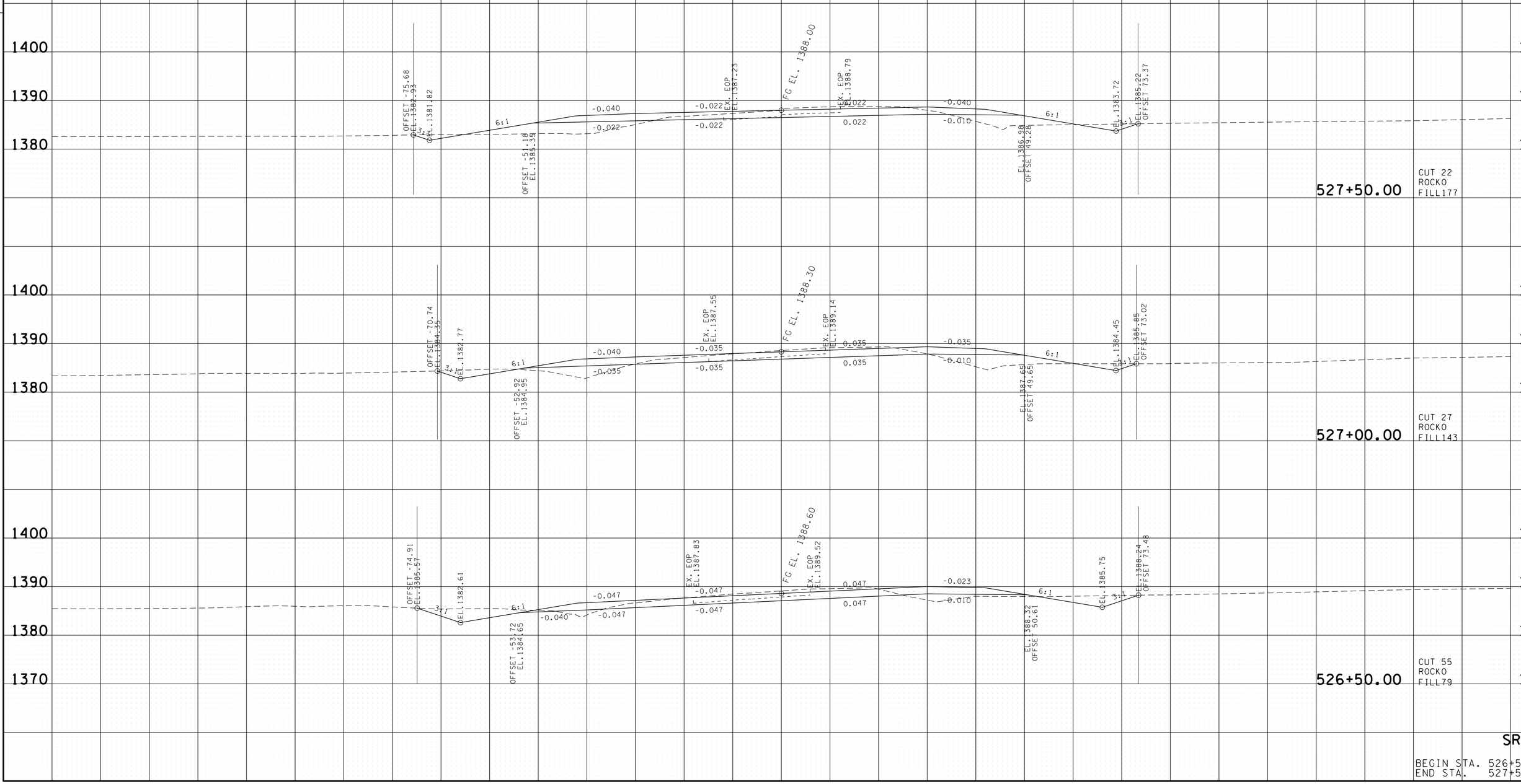
SR-52

BEGIN STA. 525+00.00
END STA. 526+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	39
CONST.	2014	APD/NH-52(48)	46

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



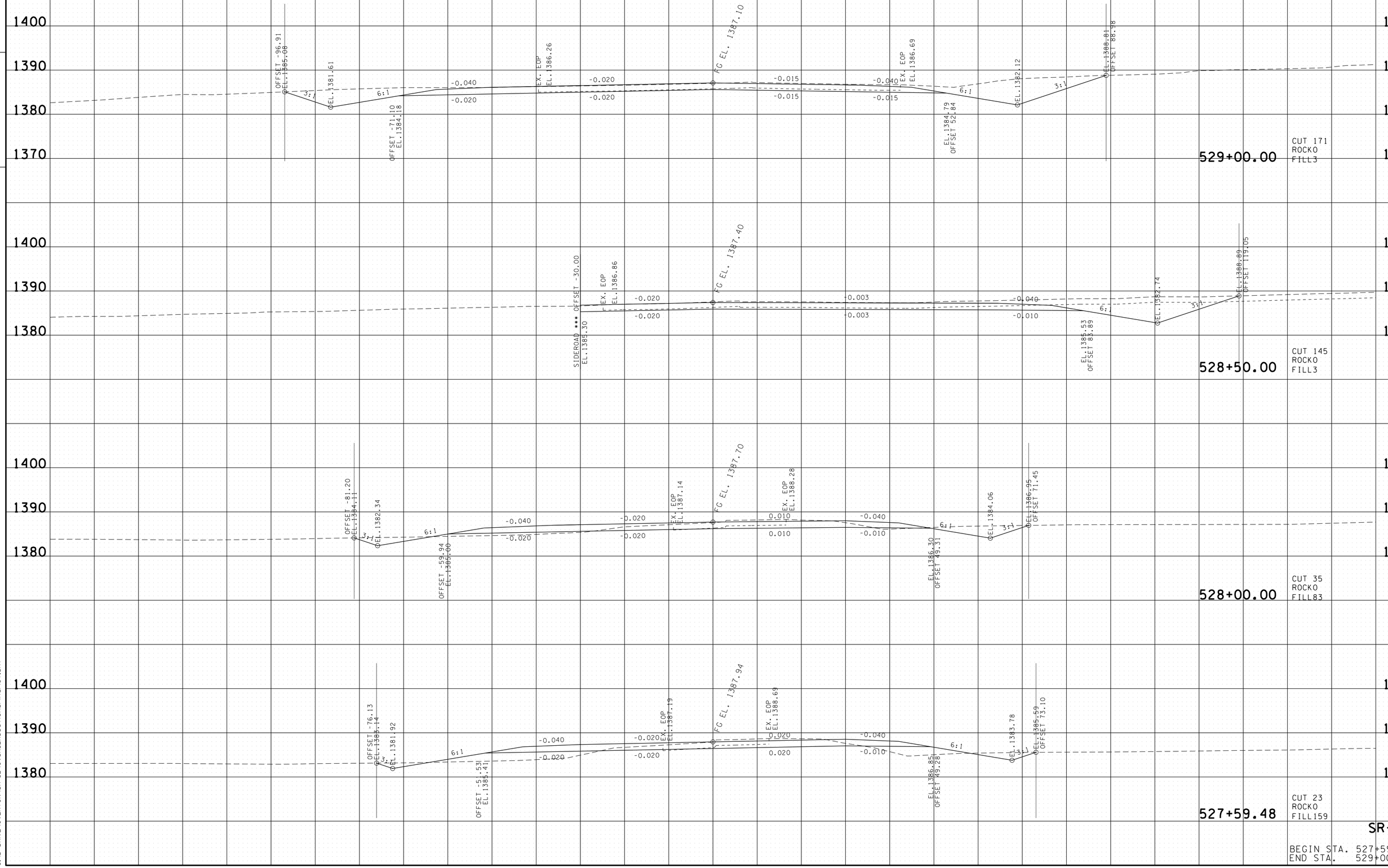
SR-52

BEGIN STA. 526+50.00
END STA. 527+50.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	40
CONST.	2014	APD/NH-52(48)	47

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



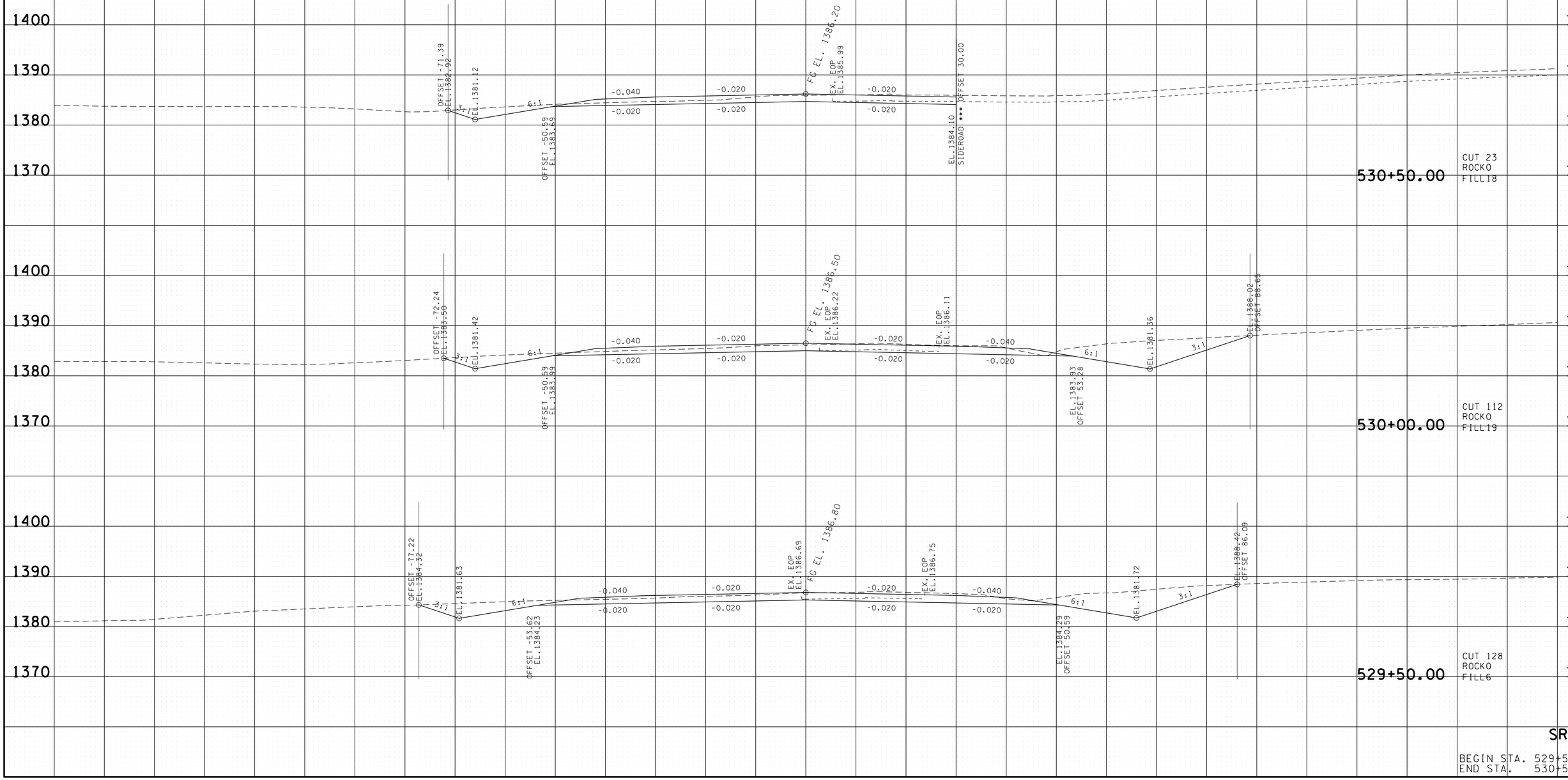
SR-52

BEGIN STA. 527+59.48
END STA. 529+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	41
CONSTR.	2014	APD/NH-52(48)	48

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



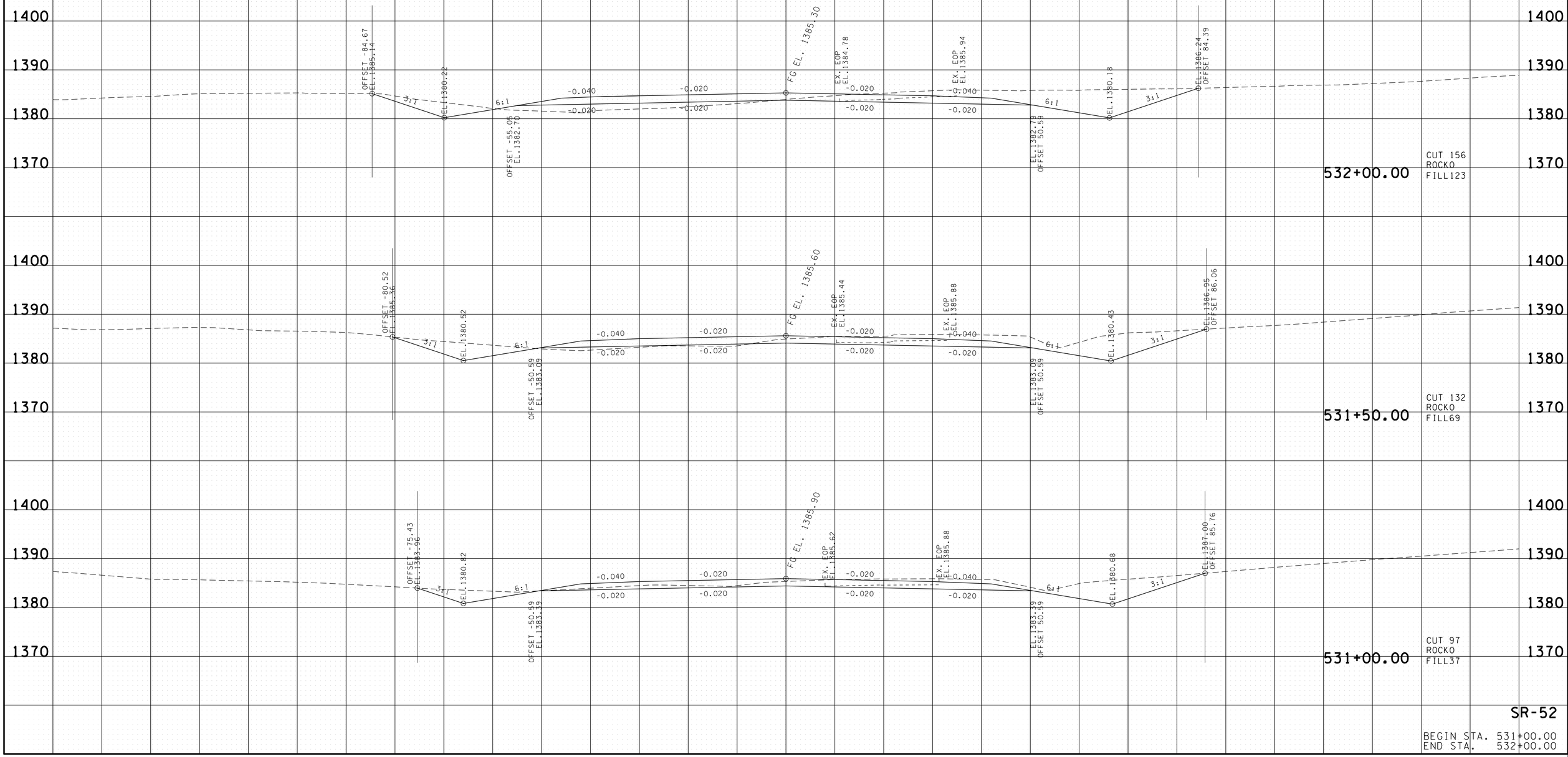
SR-52

BEGIN STA. 529+50.00
END STA. 530+50.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	42
CONST.	2014	APD/NH-52(48)	49

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



SR-52

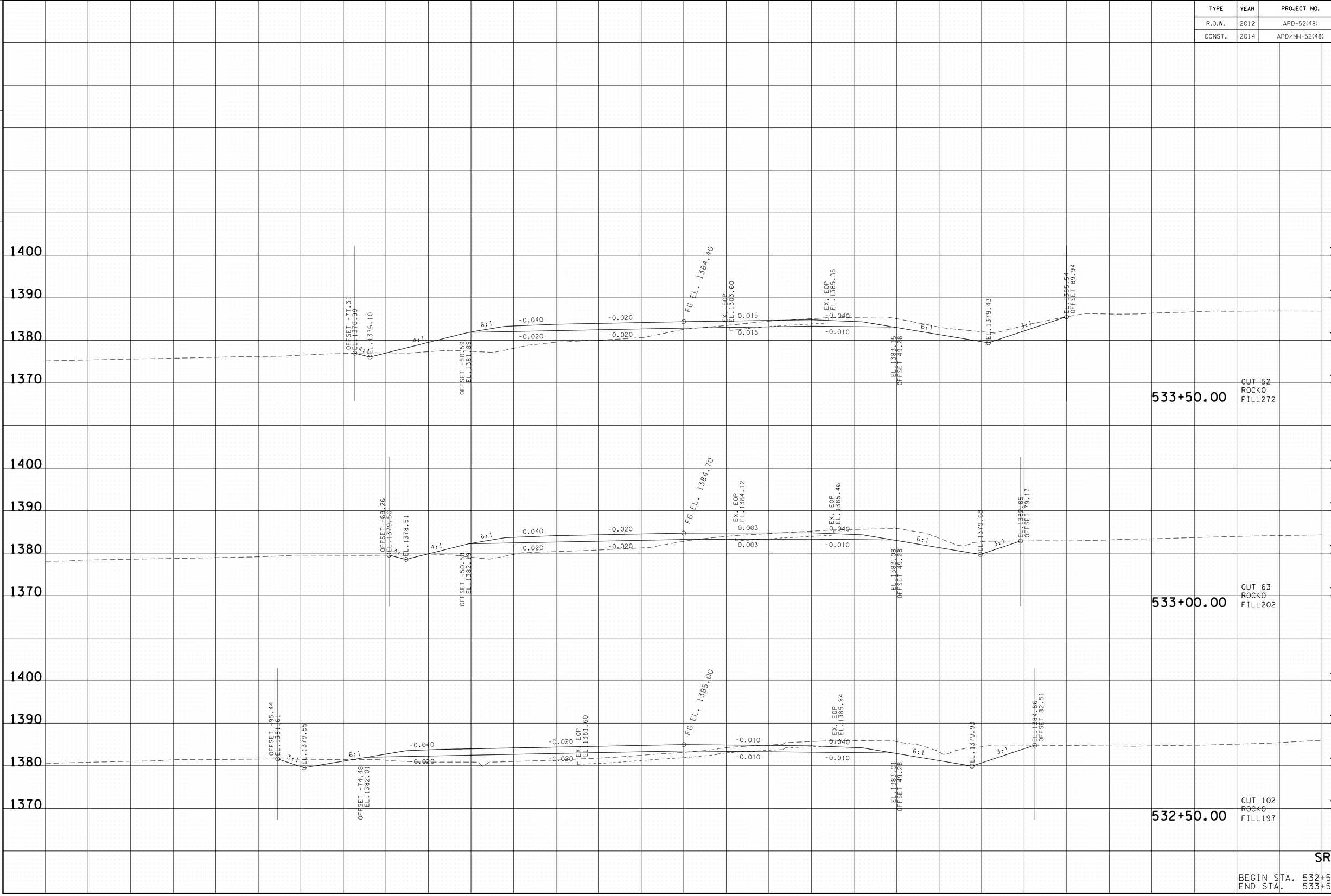
BEGIN STA. 531+00.00
END STA. 532+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	43
CONST.	2014	APD/NH-52(48)	50

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-52

BEGIN STA. 532+50.00
END STA. 533+50.00

22-JAN-2015 07:52
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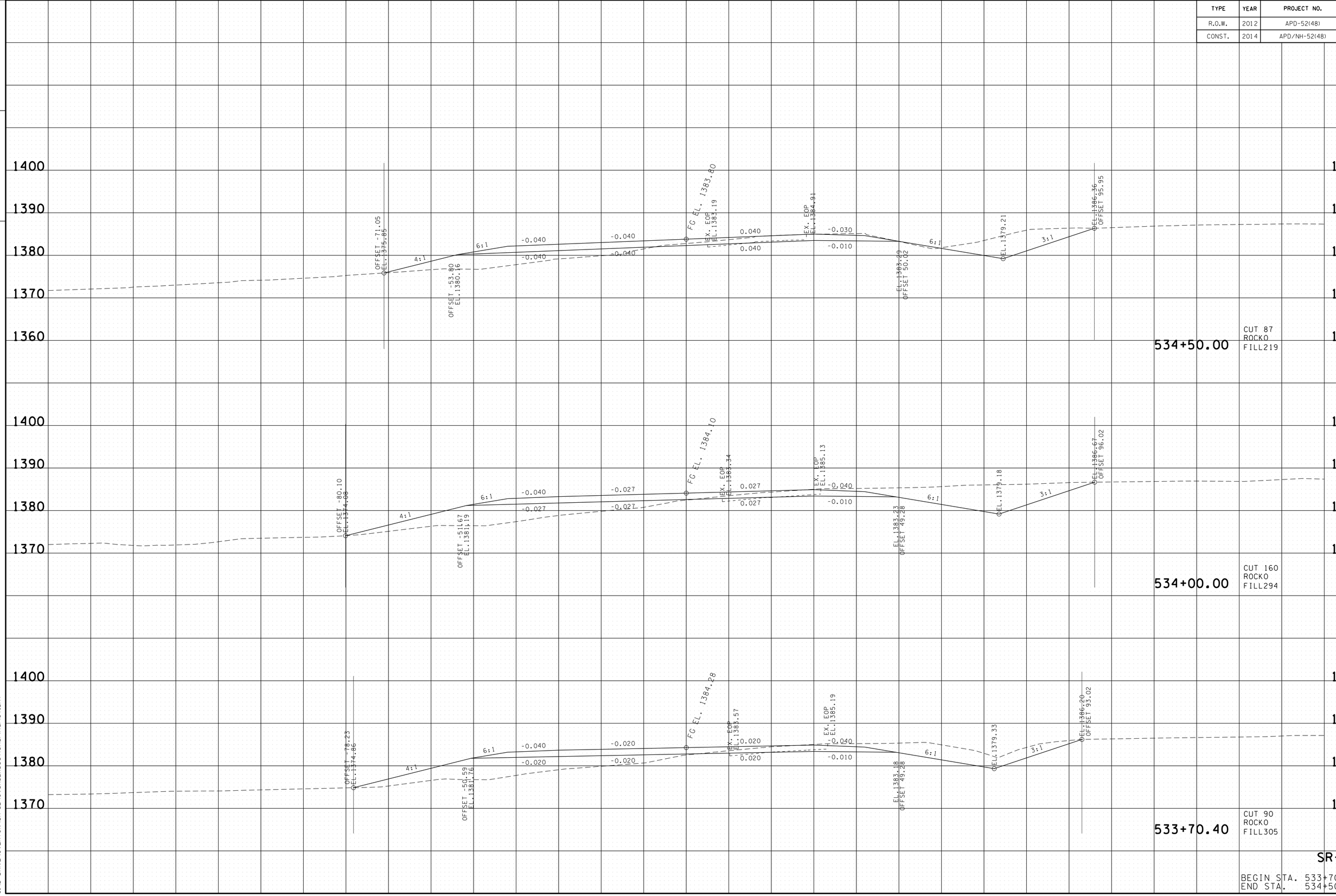
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	44
CONST.	2014	APD/NH-52(48)	51

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



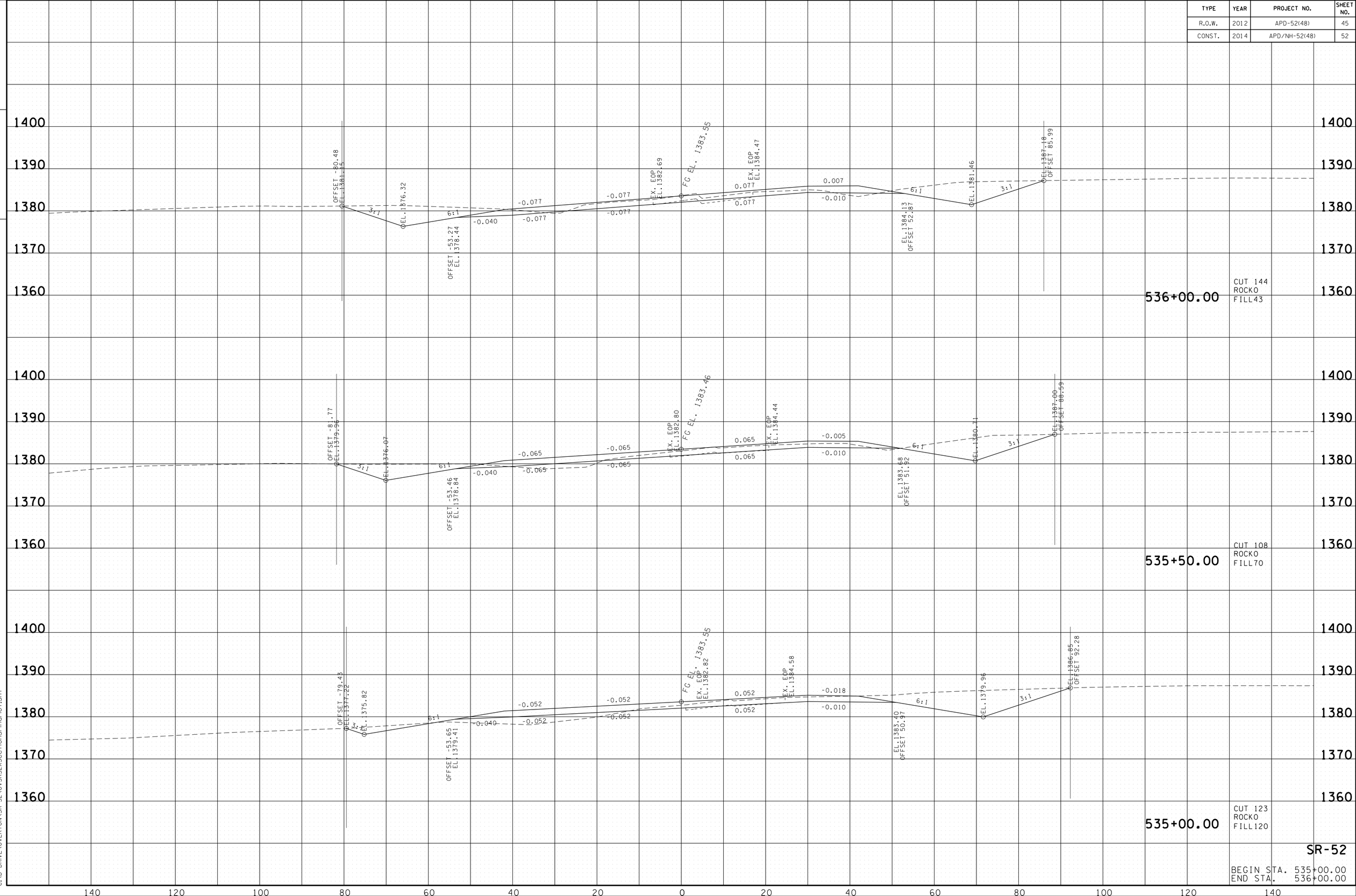
SR-52

BEGIN STA. 533+70.40
END STA. 534+50.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	45
CONST.	2014	APD/NH-52(48)	52

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



SR-52

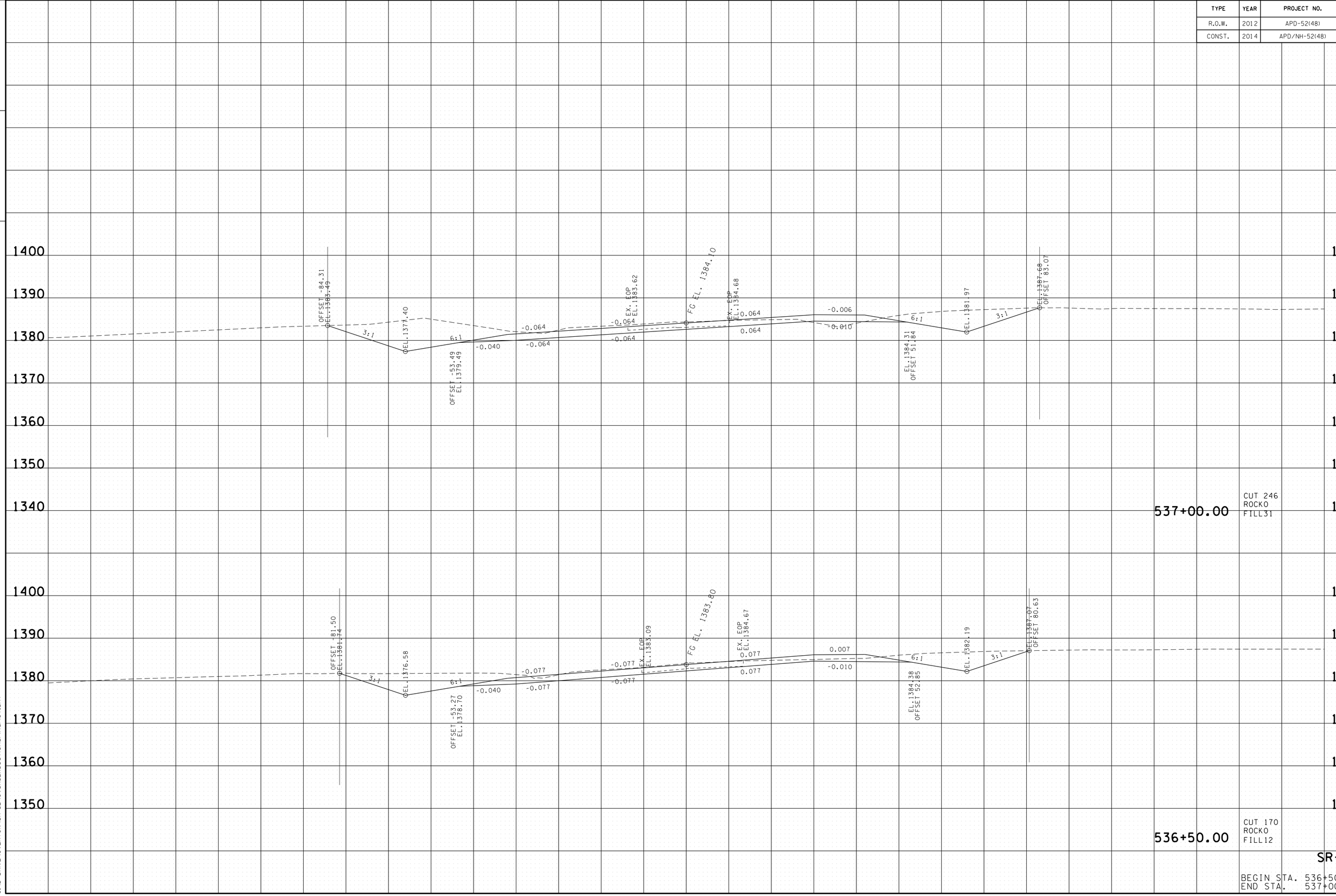
BEGIN STA. 535+00.00
END STA. 536+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	46
CONST.	2014	APD/NH-52(48)	53



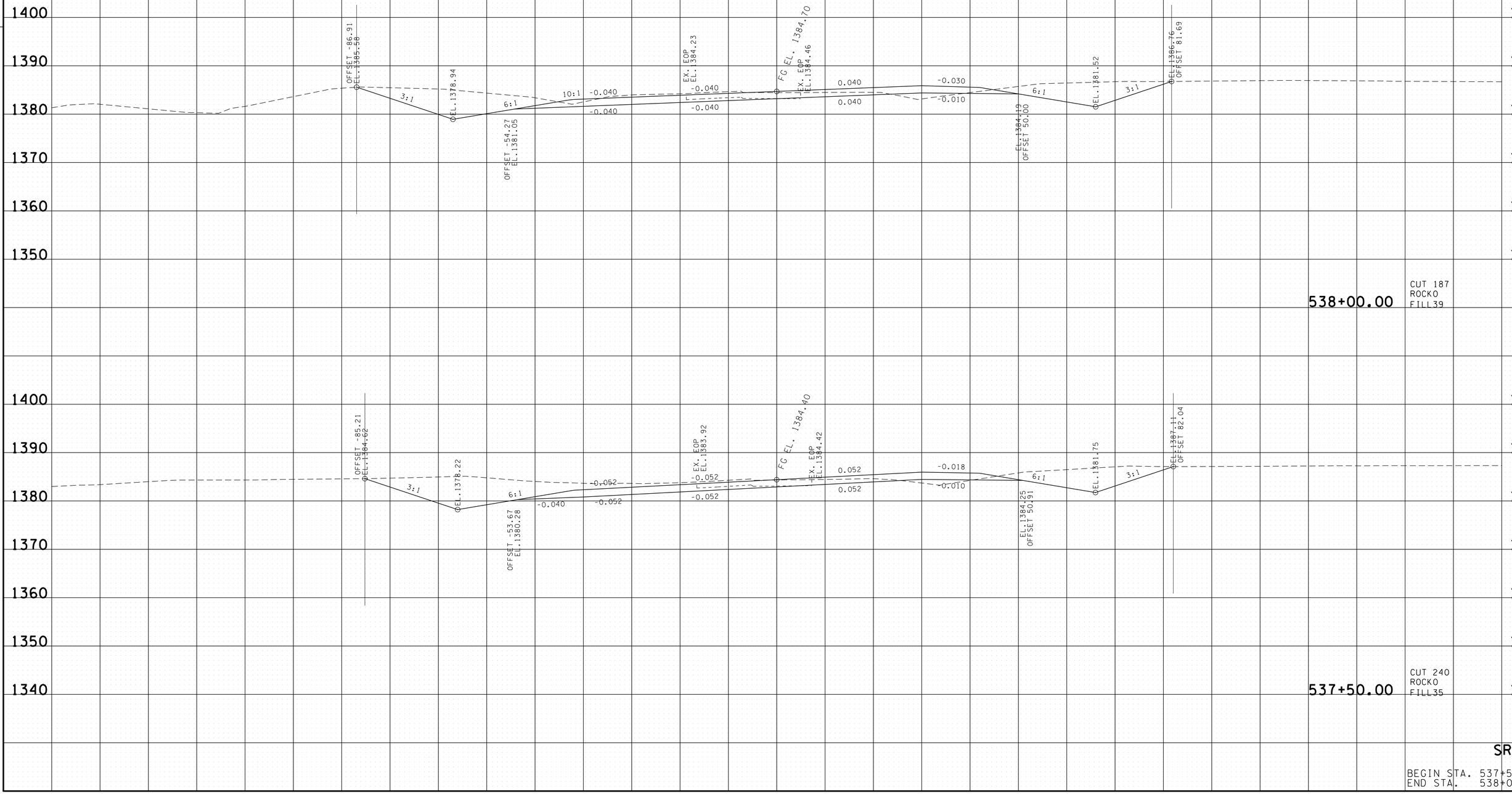
SR-52

BEGIN STA. 536+50.00
END STA. 537+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	47
CONST.	2014	APD/NH-52(48)	54

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



SR-52

BEGIN STA. 537+50.00
END STA. 538+00.00

22-JAN-2015 07:52
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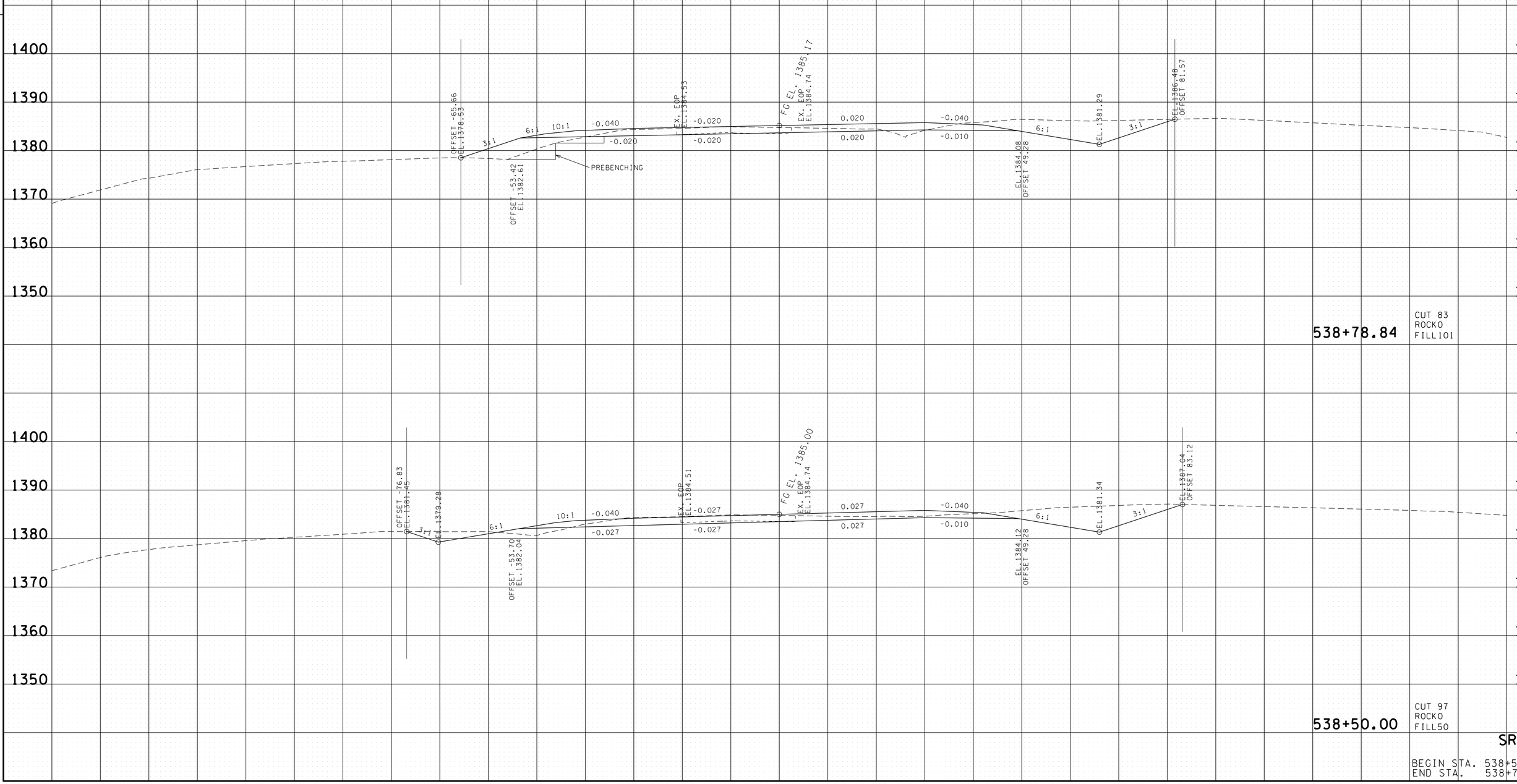
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	48
CONST.	2014	APD/NH-52(48)	55

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



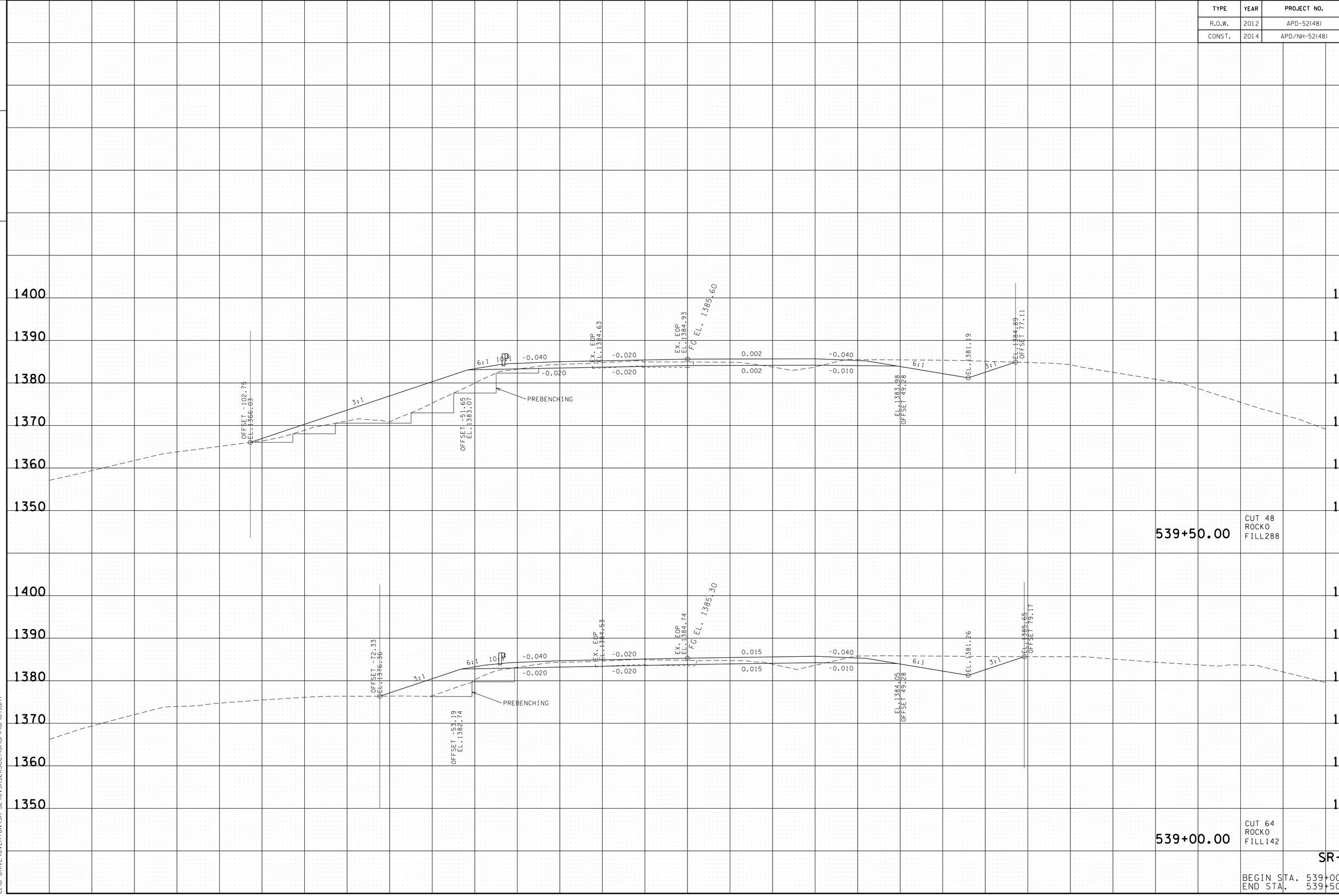
SR-52

BEGIN STA. 538+50.00
END STA. 538+78.84

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	49
CONST.	2014	APD/NH-52(48)	56

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



SR-52

BEGIN STA. 539+00.00
END STA. 539+50.00

22-JAN-2015 07:52
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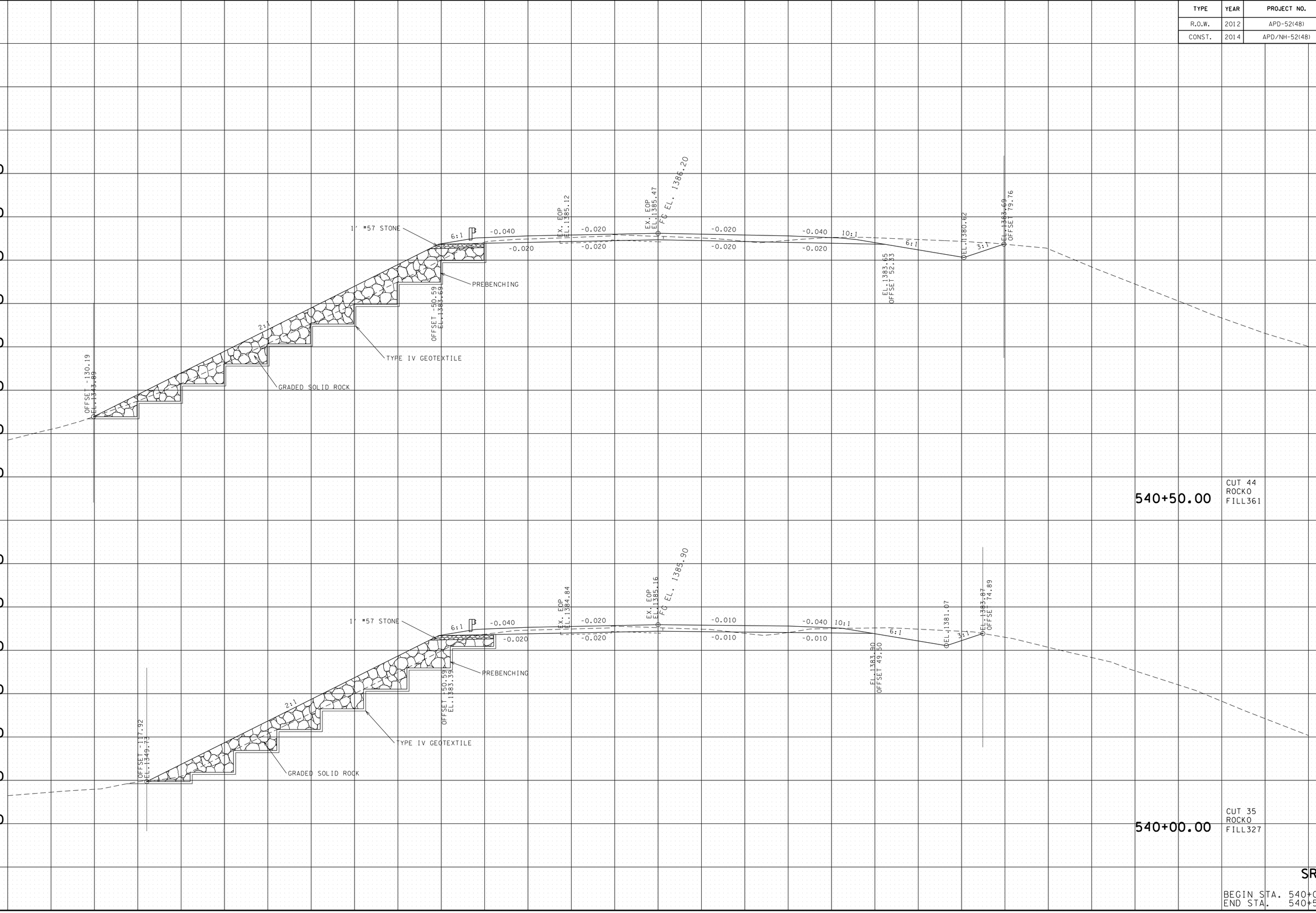
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	50
CONST.	2014	APD/NH-52(48)	57

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-52

BEGIN STA. 540+00.00
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22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	51
CONST.	2014	APD/NH-52(48)	58

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1400
1390
1380
1370
1360
1350
1340
1330
1320

1" #57 STONE
6:1
-0.040
-0.020
EX. EOP EL. 1385.64
EX. EOP EL. 1385.85
FG EL. 1386.50
2:1
PREBENCHING
TYPE IV GEOTEXTILE
GRADED SOLID ROCK
OFFSET -50.59 EL. 1383.99
OFFSET -146.43 DEL. 1336.07
EL. 1383.93 OFFSET 53.56
EL. 1380.37 OFFSET 78.31

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

541+00.00

CUT 1
ROCKO
FILL451

SR-52

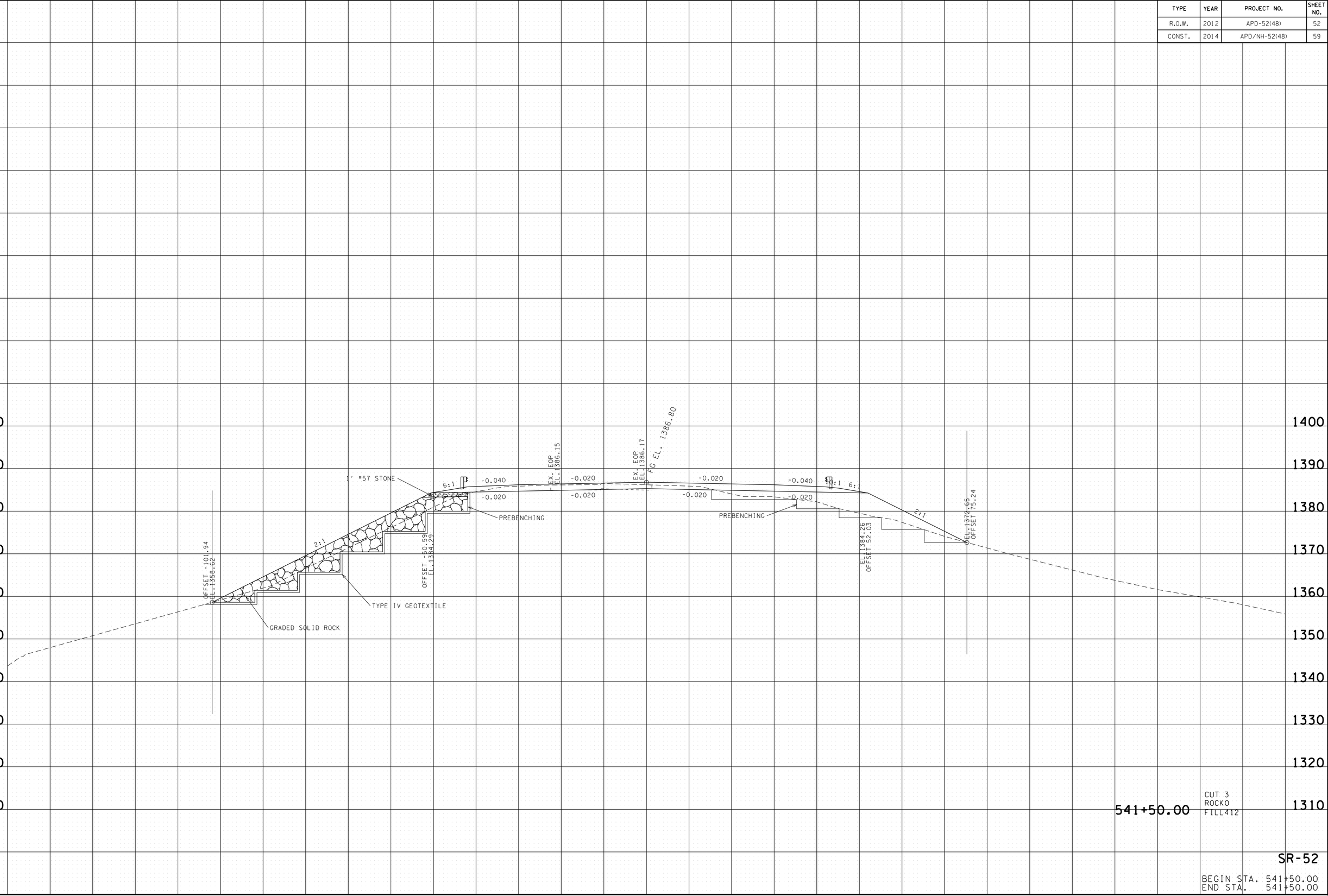
BEGIN STA. 541+00.00
END STA. 541+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	52
CONST.	2014	APD/NH-52(48)	59



541+50.00

CUT 3
ROCK0
FILL412

SR-52

BEGIN STA. 541+50.00
END STA. 541+50.00

22-JAN-2015 07:52
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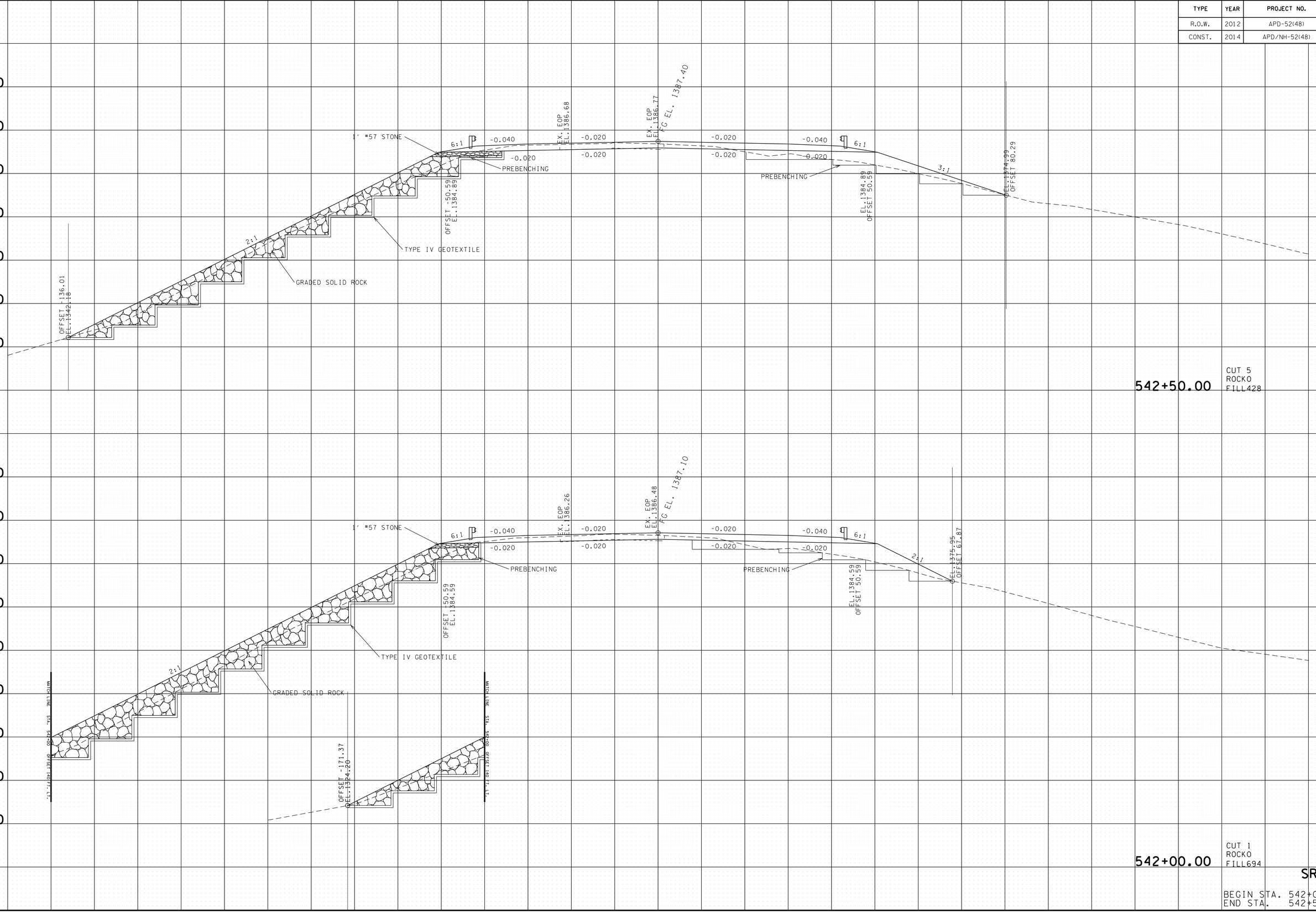
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	53
CONST.	2014	APD/NH-52(48)	60

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



SR-52

BEGIN STA. 542+00.00
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22-JAN-2015 07:52
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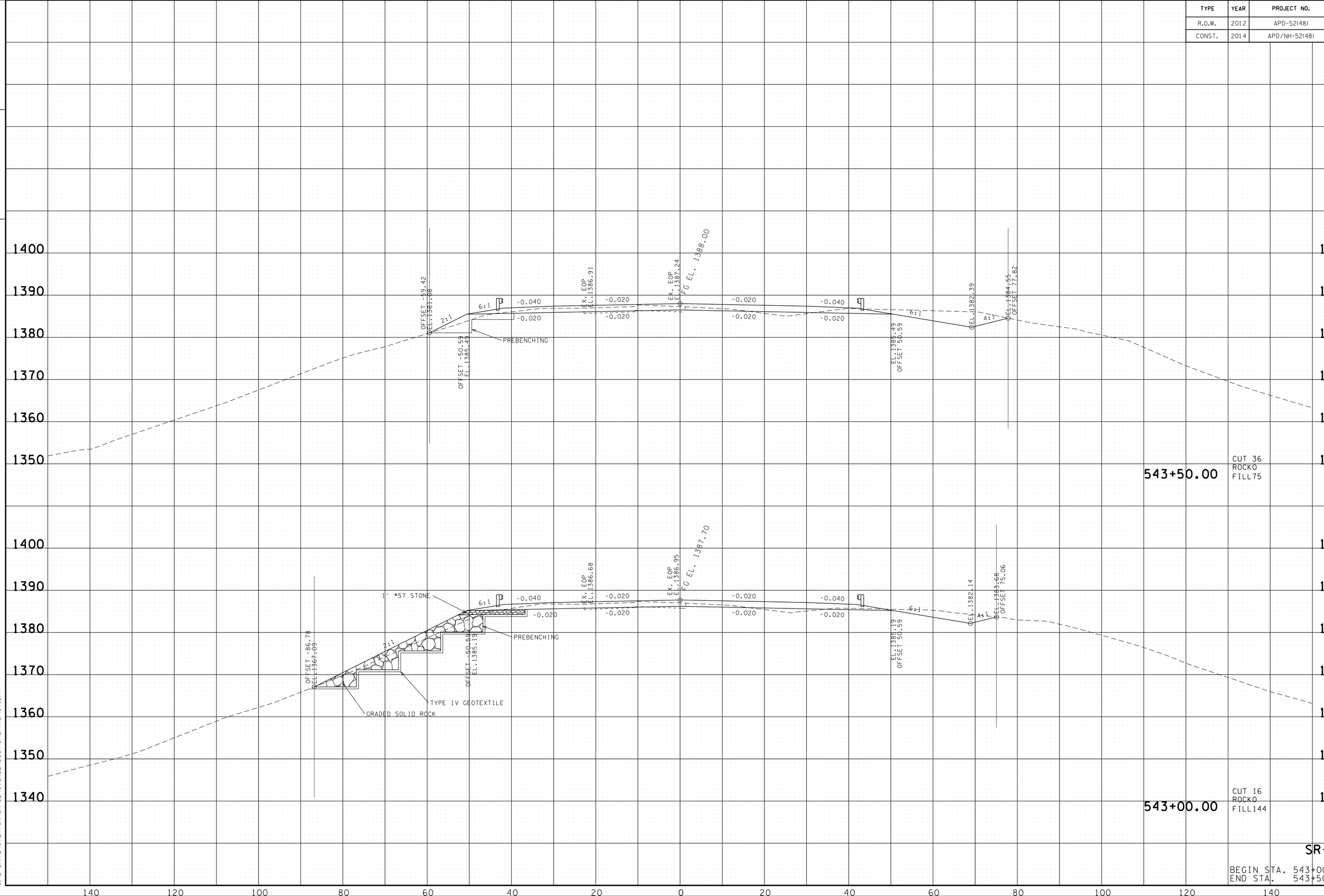
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	54
CONST.	2014	APD/NH-52(48)	61

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



SR-52

BEGIN STA. 543+00.00
END STA. 543+50.00

22-JAN-2015 07:52
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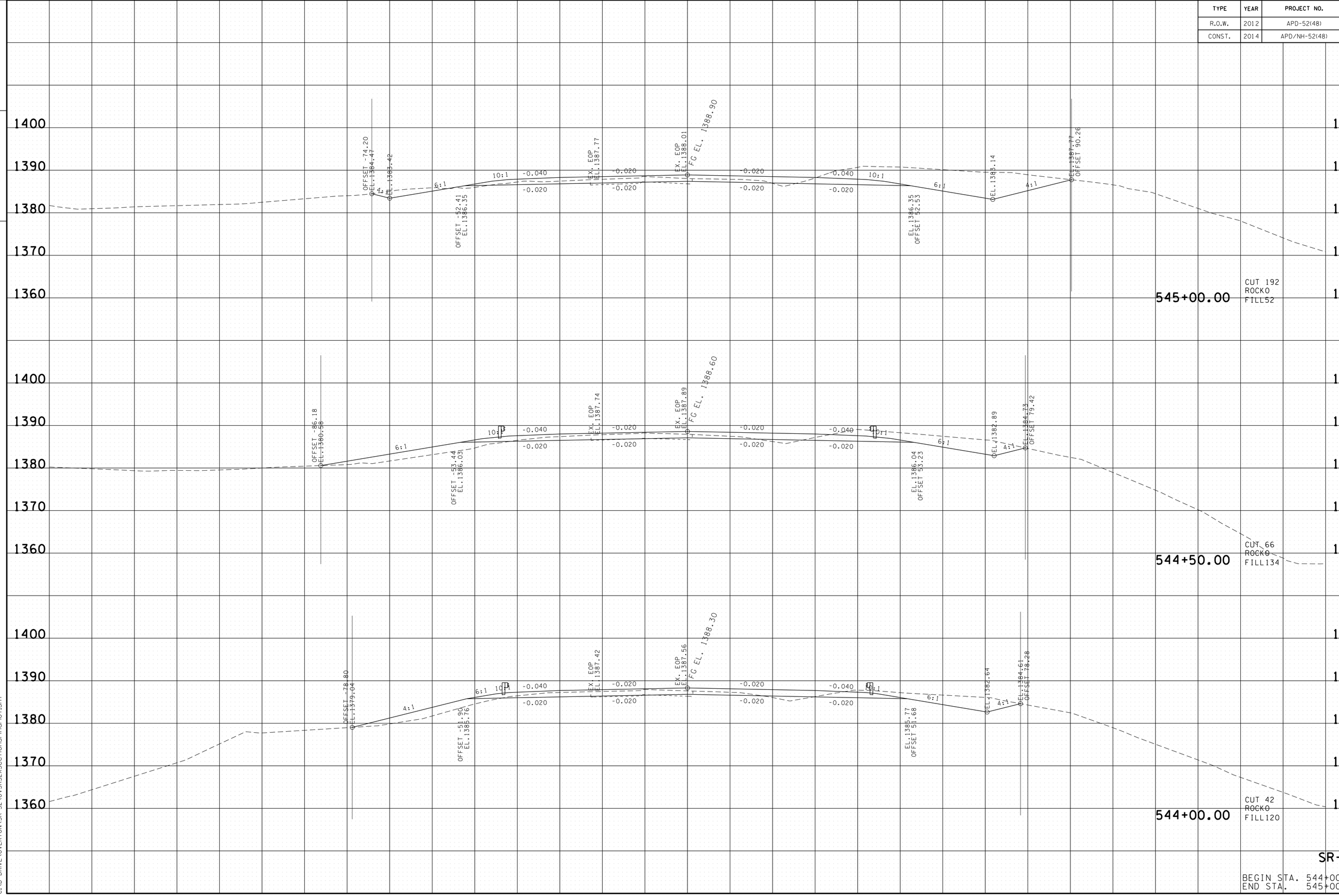
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	55
CONST.	2014	APD/NH-52(48)	62

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



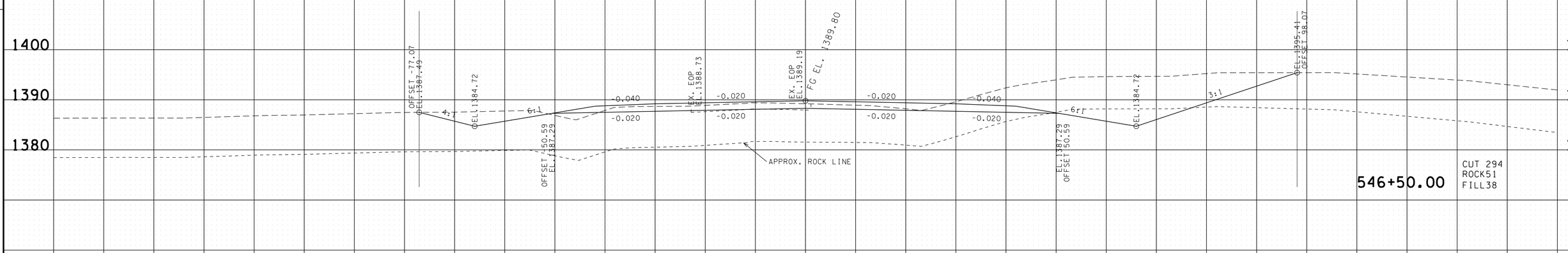
SR-52

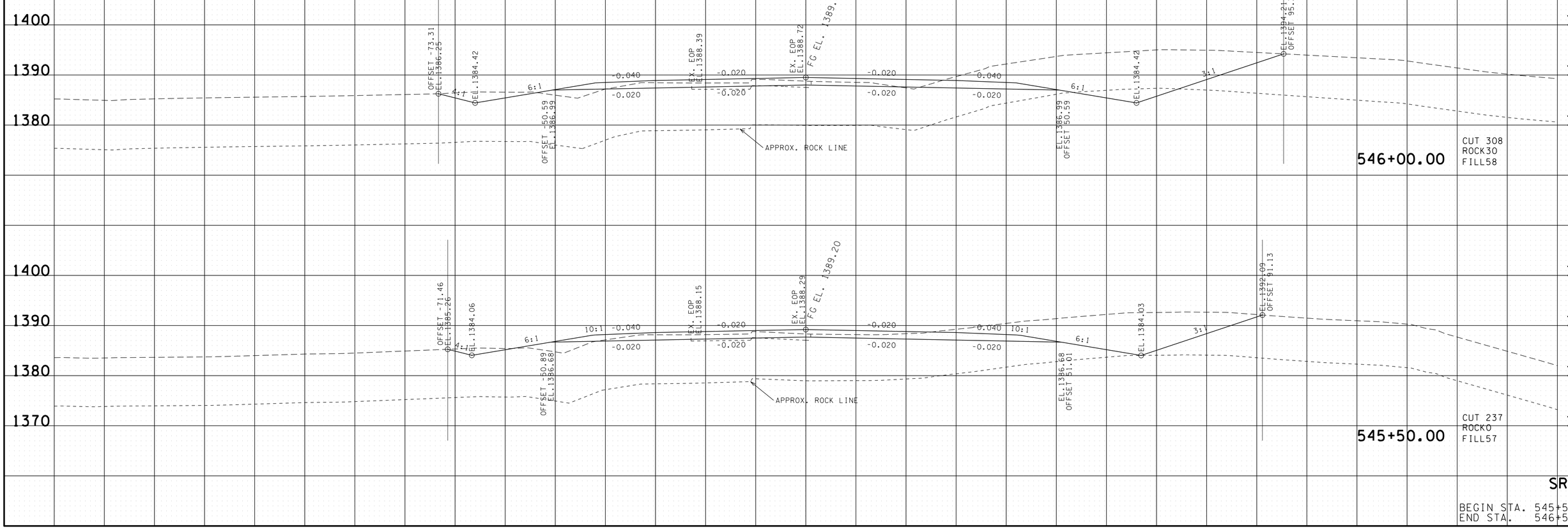
BEGIN STA. 544+00.00
END STA. 545+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	56
CONST.	2014	APD/NH-52(48)	63

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





SR-52

BEGIN STA. 545+50.00
END STA. 546+50.00

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	57
CONST.	2014	APD/NH-52(48)	64

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

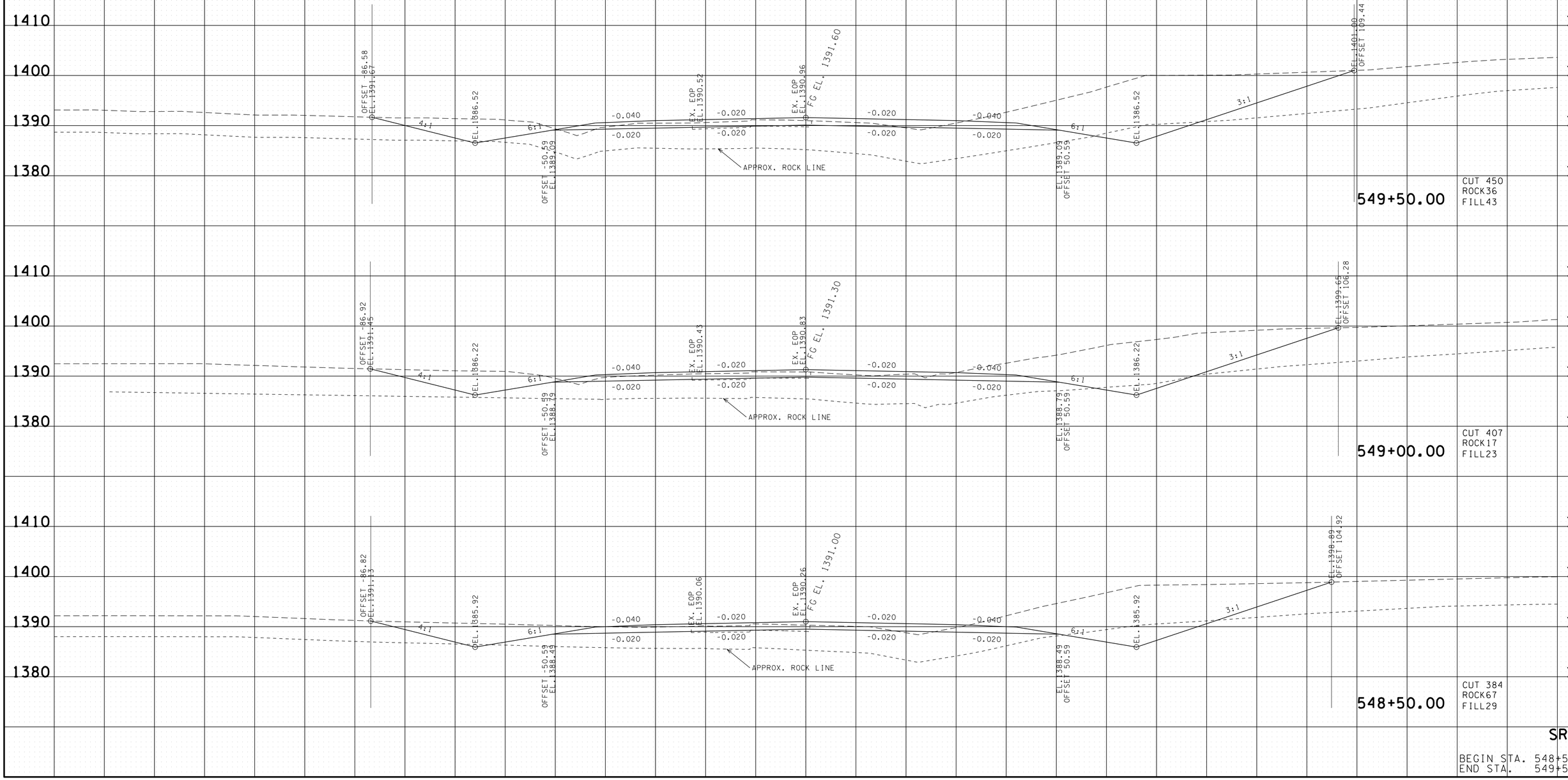
SR-52

BEGIN STA. 547+00.00
END STA. 548+00.00

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	58
CONST.	2014	APD/NH-52(48)	65

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



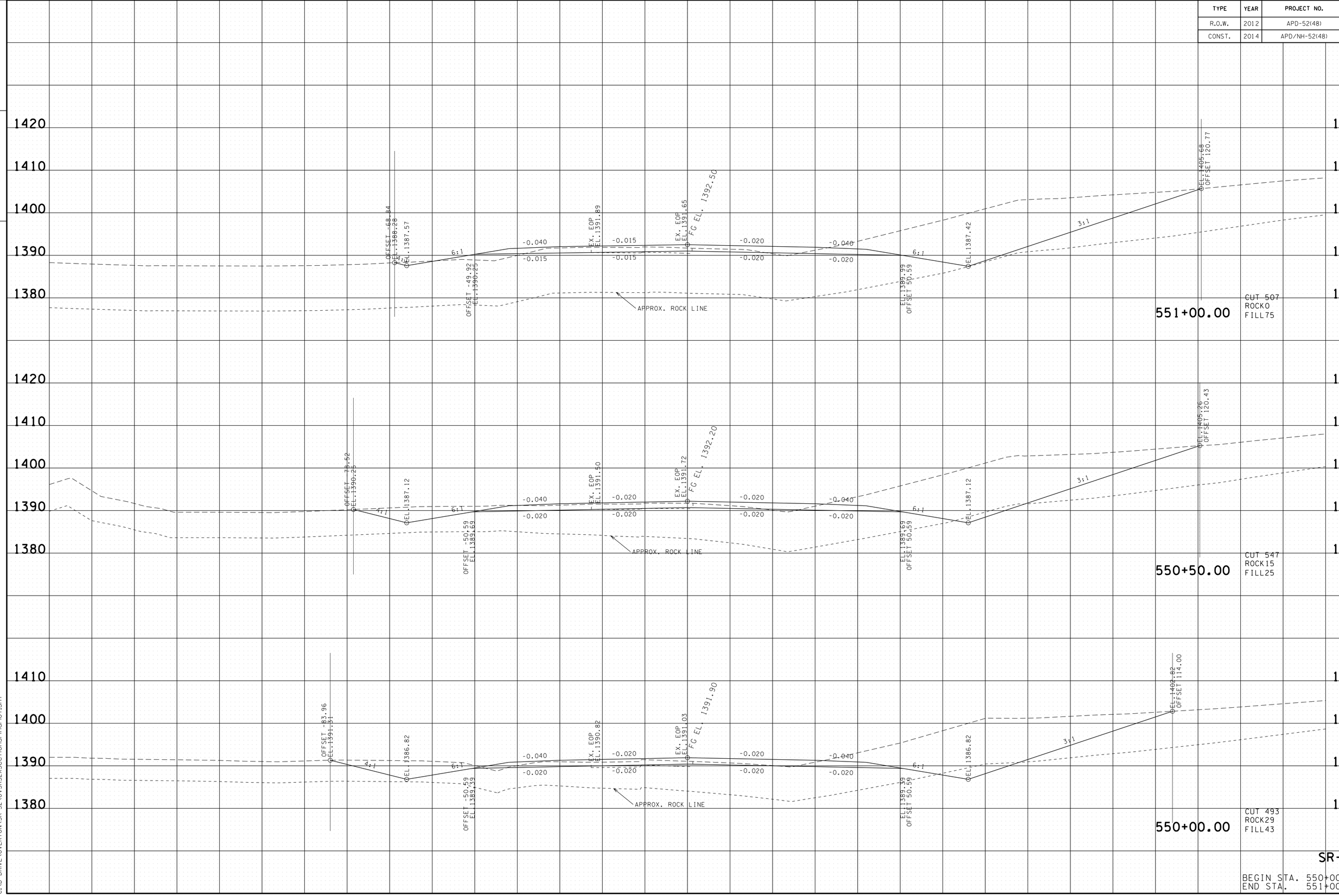
SR-52

BEGIN STA. 548+50.00
END STA. 549+50.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	59
CONST.	2014	APD/NH-52(48)	66

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



SR-52

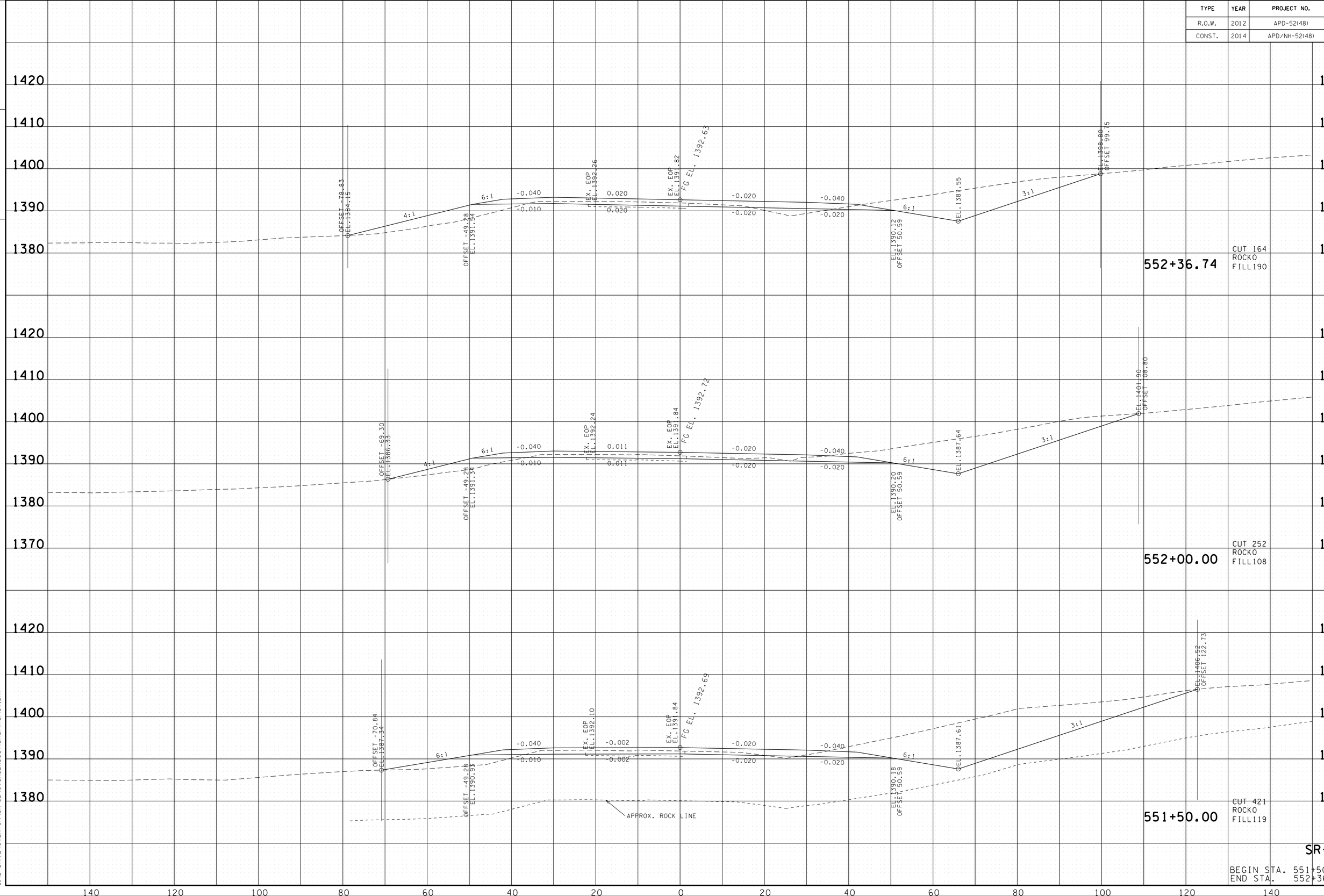
BEGIN STA. 550+00.00
END STA. 551+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	60
CONST.	2014	APD/NH-52(48)	67

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



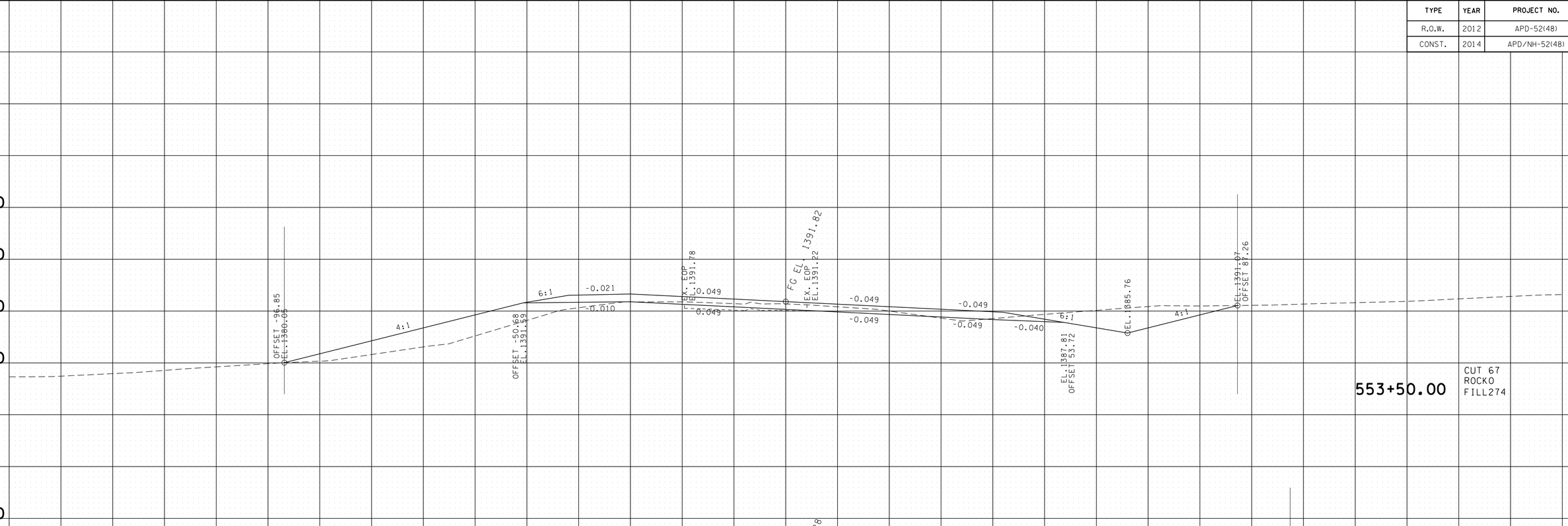
SR-52

BEGIN STA. 551+50.00
END STA. 552+36.74

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	61
CONST.	2014	APD/NH-52(48)	68

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



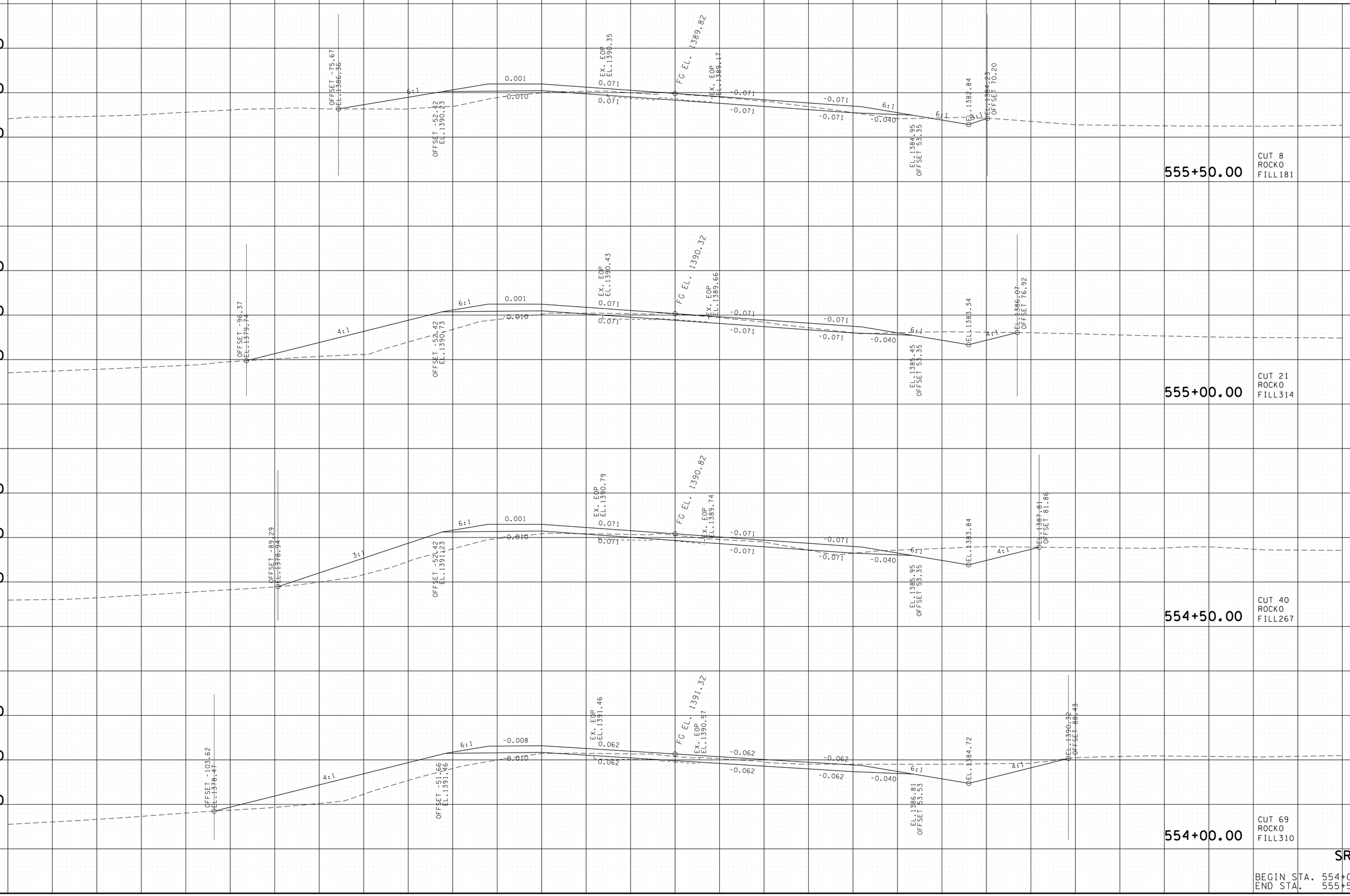
SR-52

BEGIN STA. 552+50.00
END STA. 553+50.00

22-JAN-2015 07:52
C:\D_DRIVE_OVERTON\SR-52\OVSR52X\SectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	62
CONST.	2014	APD/NH-52(48)	69

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



SR-52

BEGIN STA. 554+00.00
END STA. 555+50.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	63
CONST.	2014	APD/NH-52(48)	70

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

SR-52

BEGIN STA. 556+00.00
END STA. 557+50.00

22-JAN-2015 07:52
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	64
CONST.	2014	APD/NH-52(48)	71

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SR-52

BEGIN STA. 558+00.00
END STA. 559+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	65
CONST.	2014	APD/NH-52(48)	72

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

SR-52

BEGIN STA. 559+50.00
END STA. 560+50.00

22-JAN-2015 07:52
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	66
CONST.	2014	APD/NH-52(48)	73

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

SR-52

BEGIN STA. 561+00.00
END STA. 562+00.00

22-JAN-2015 07:52
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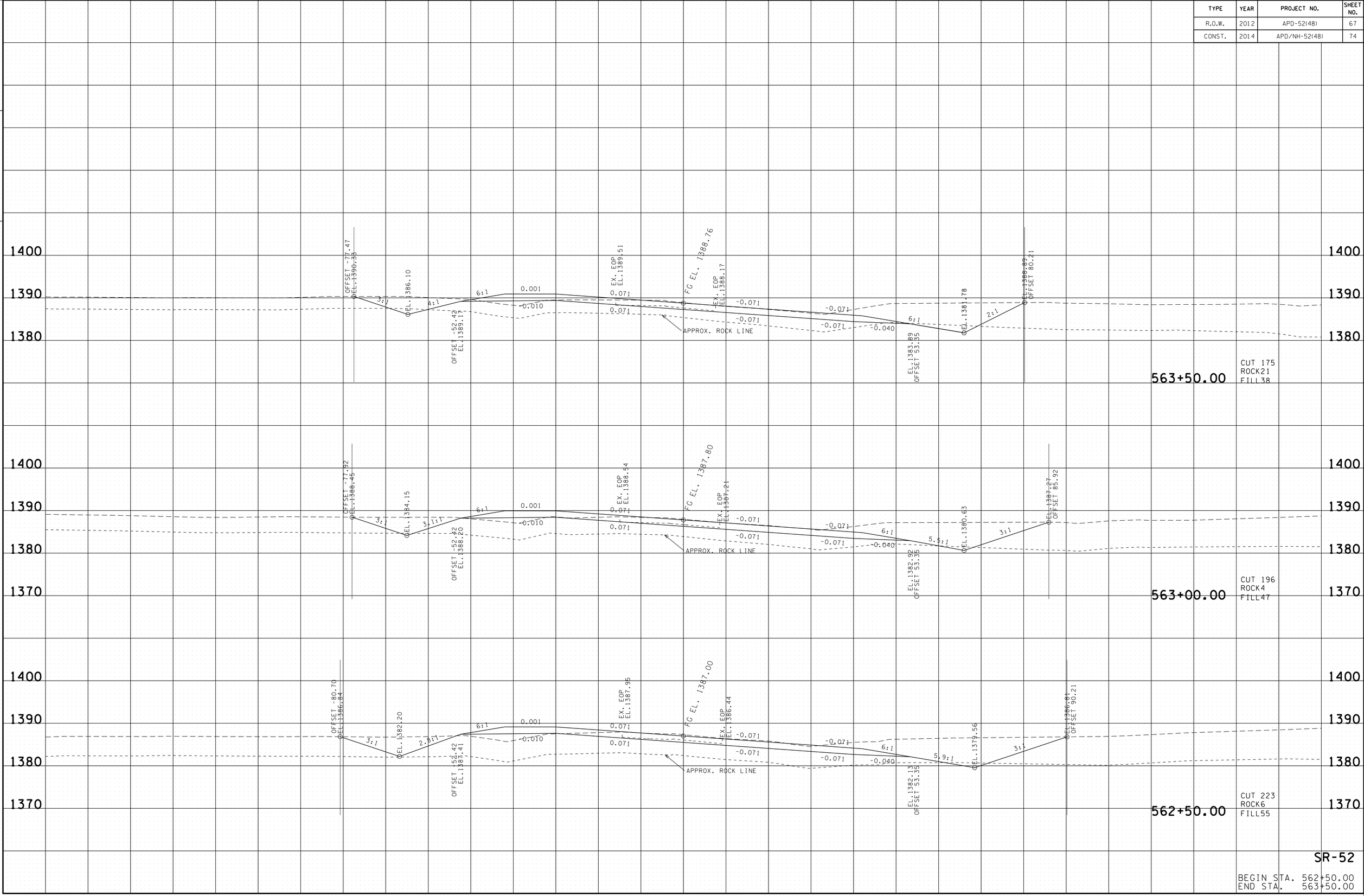
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	67
CONST.	2014	APD/NH-52(48)	74

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



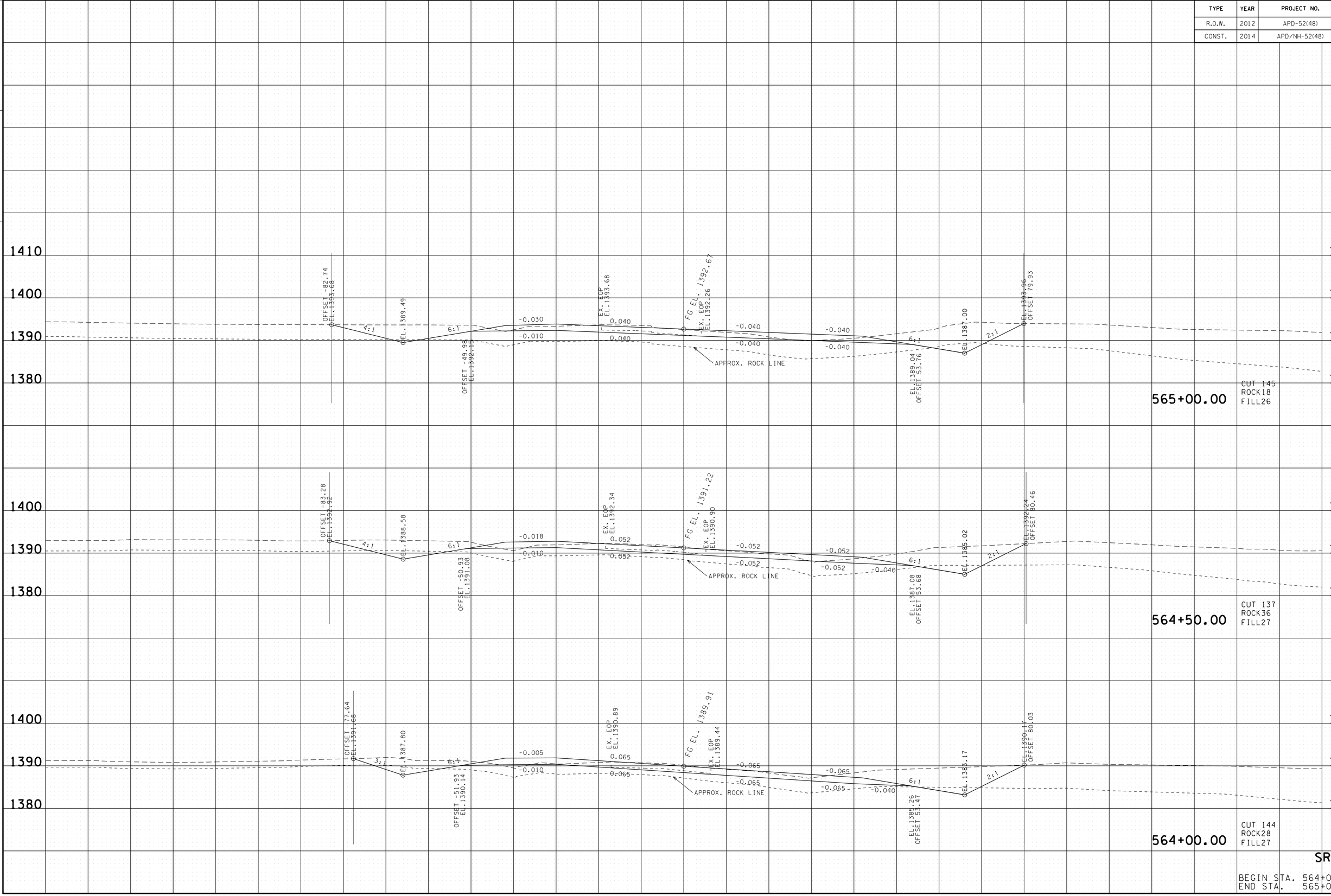
SR-52

BEGIN STA. 562+50.00
END STA. 563+50.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	68
CONST.	2014	APD/NH-52(48)	75

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



SR-52

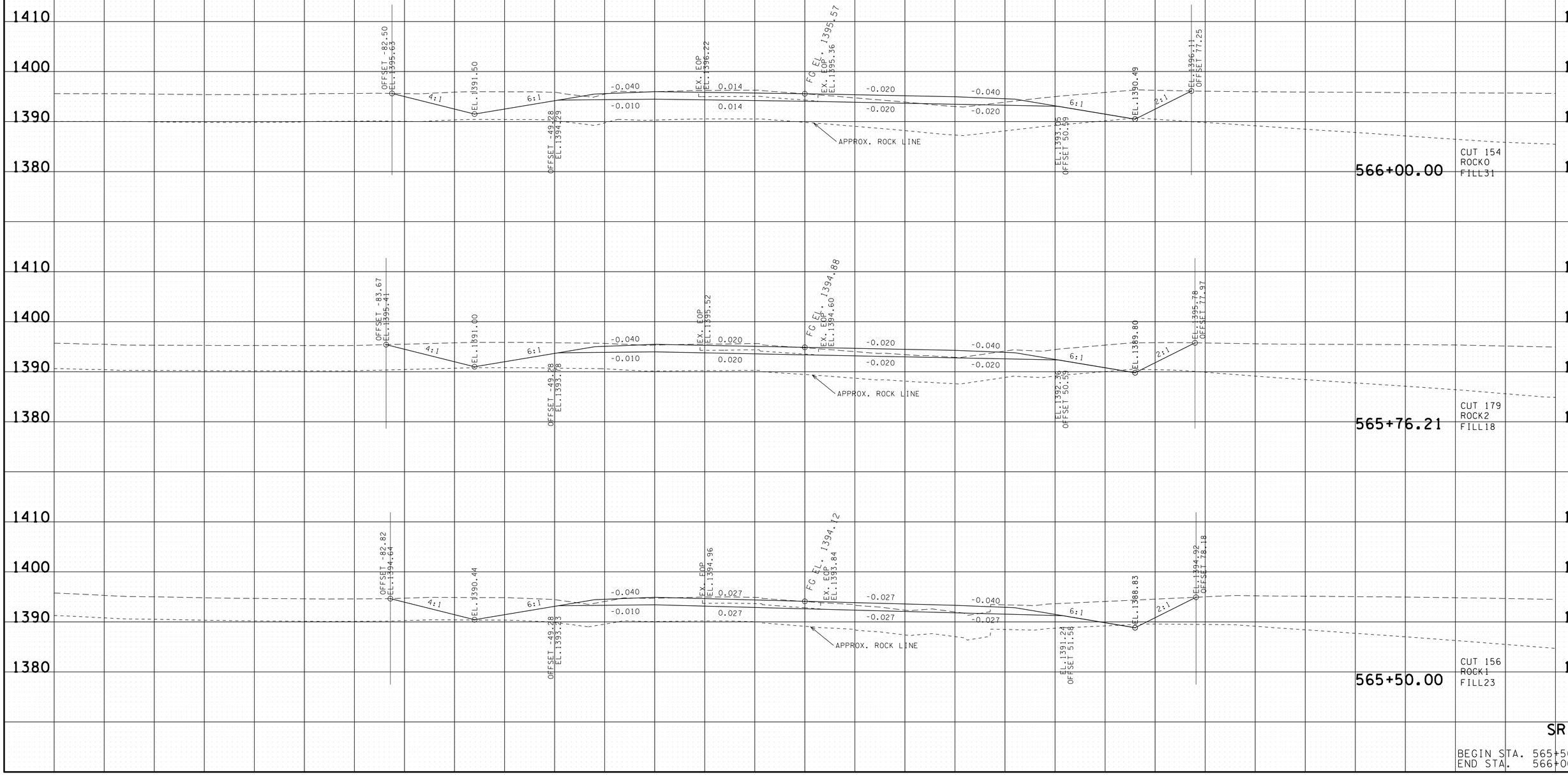
BEGIN STA. 564+00.00
END STA. 565+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	69
CONST.	2014	APD/NH-52(48)	76



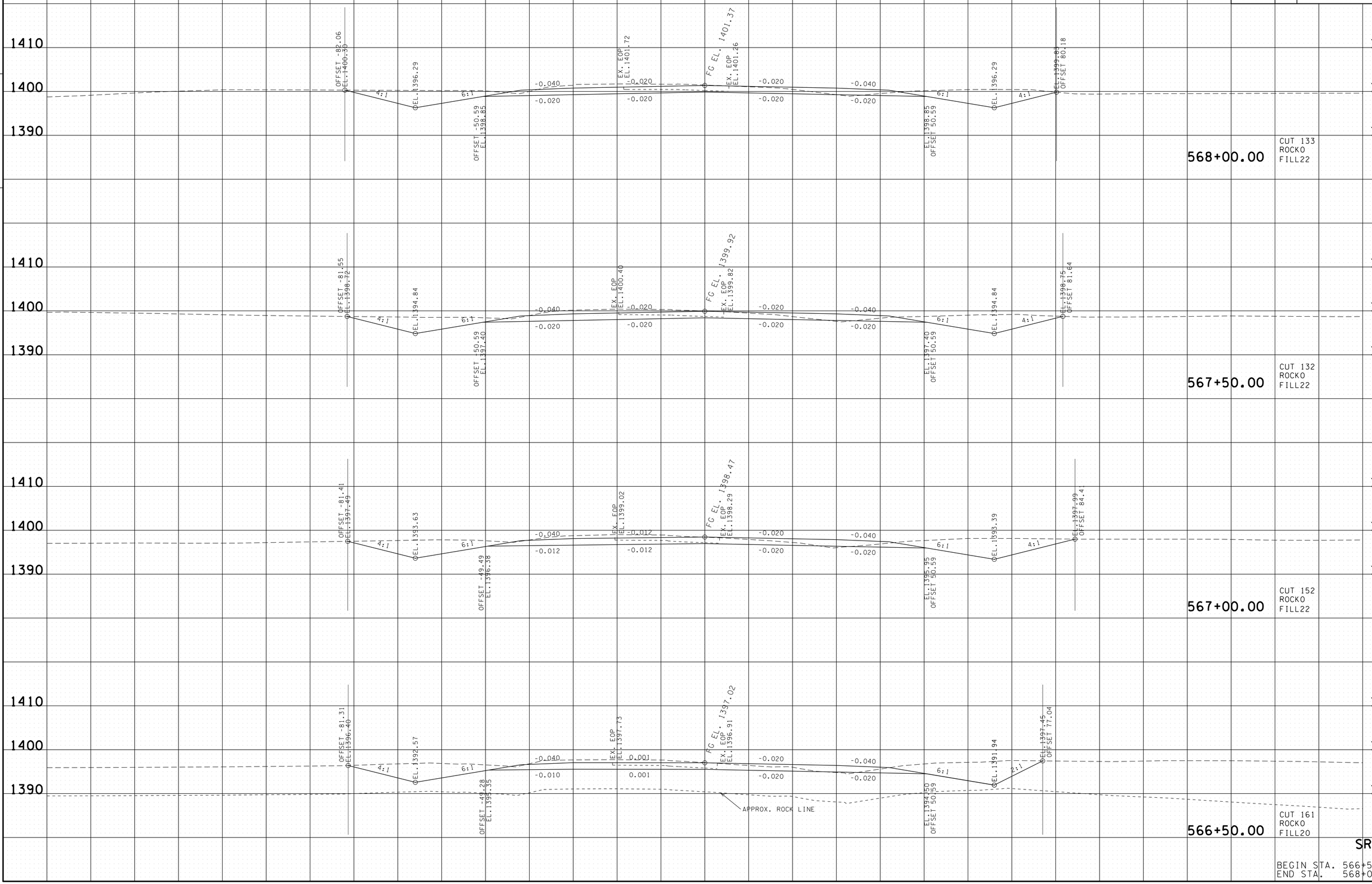
SR-52

BEGIN STA. 565+50.00
END STA. 566+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	70
CONST.	2014	APD/NH-52(48)	77

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



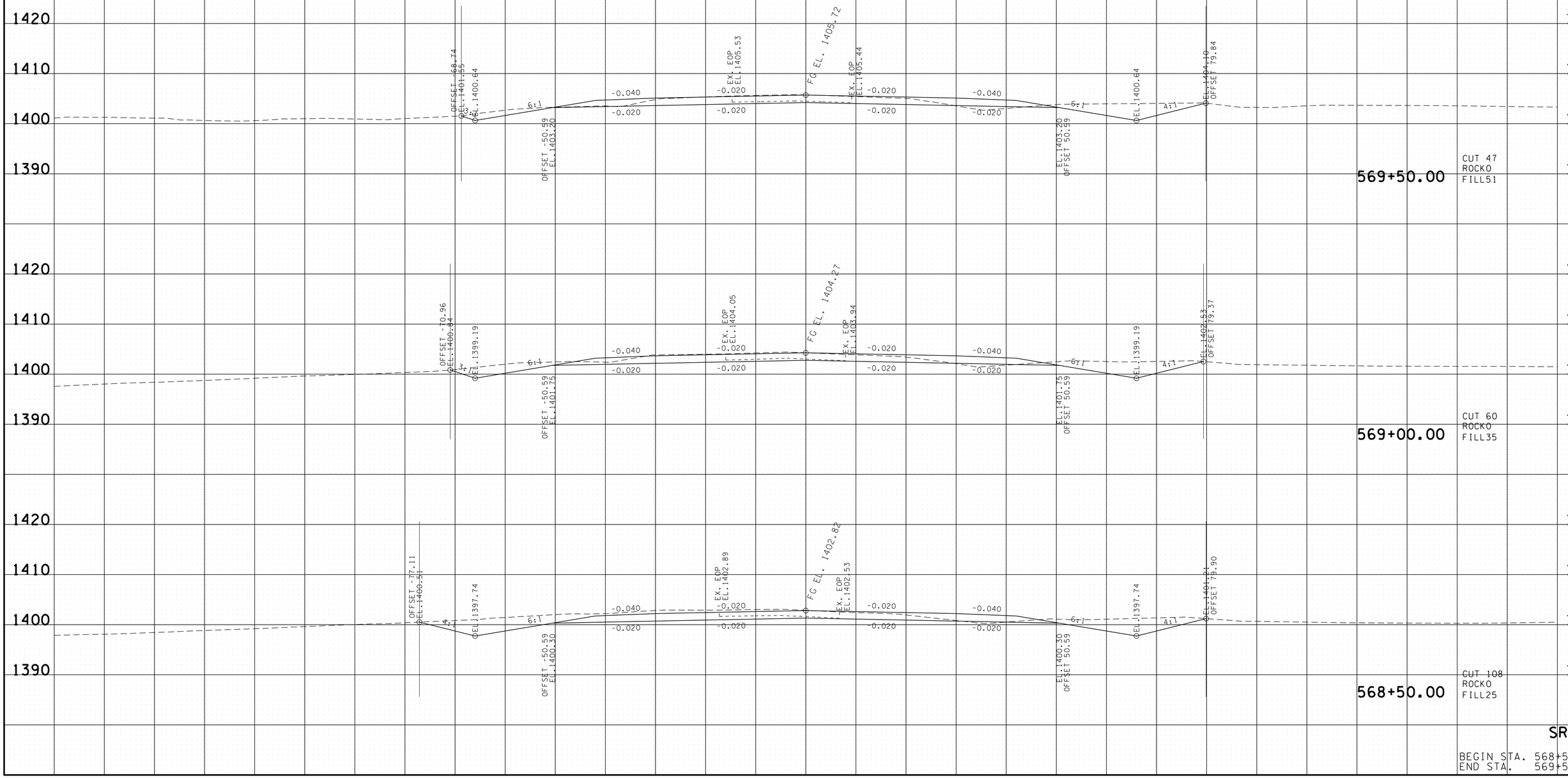
SR-52

BEGIN STA. 566+50.00
END STA. 568+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	71
CONST.	2014	APD/NH-52(48)	78

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



SR-52

BEGIN STA. 568+50.00
END STA. 569+50.00

22-JAN-2015 07:52
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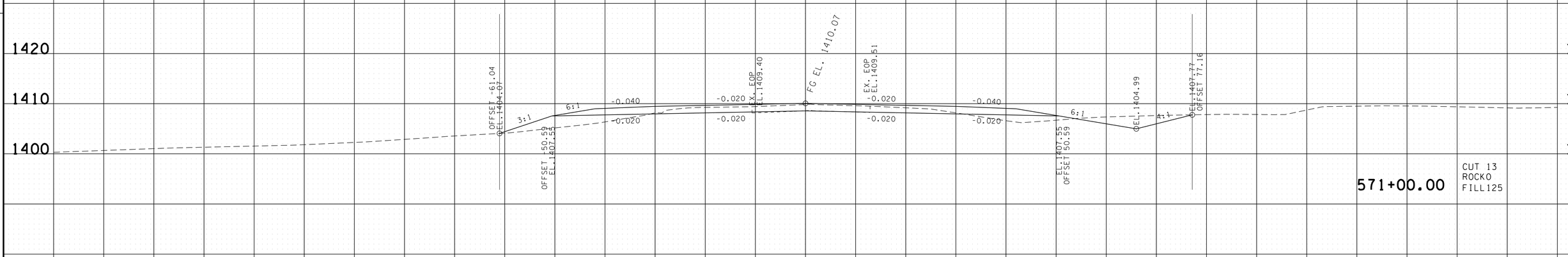
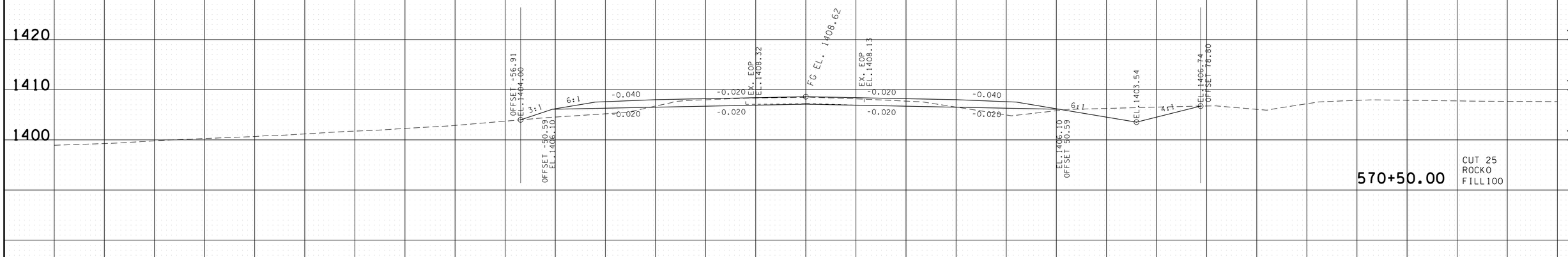
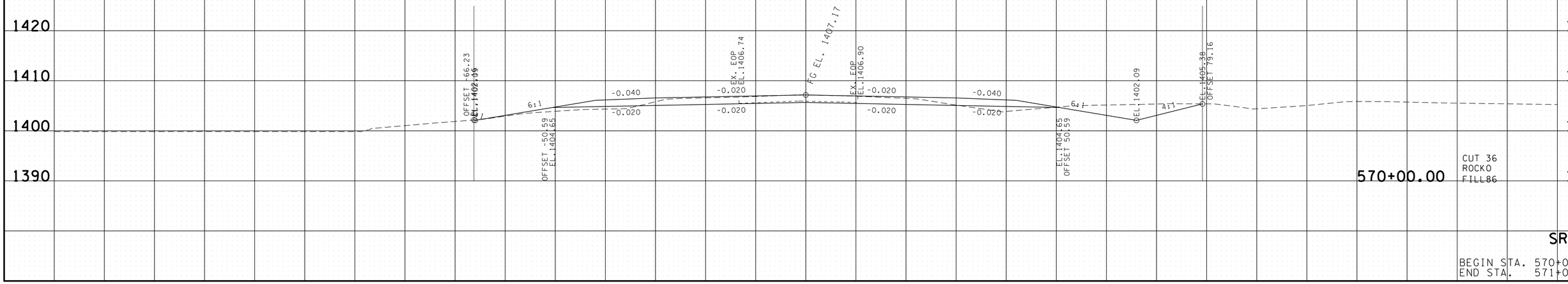
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	72
CONST.	2014	APD/NH-52(48)	79







SR-52

BEGIN STA. 570+00.00
END STA. 571+00.00

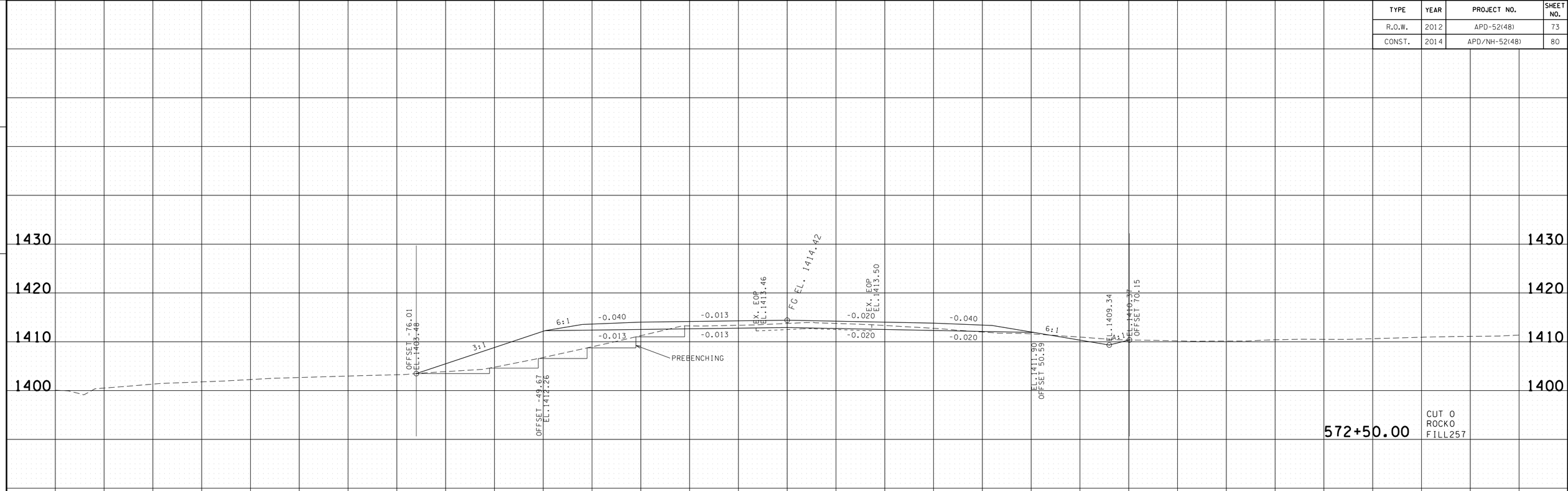
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	73
CONST.	2014	APD/NH-52(48)	80



SR-52

BEGIN STA. 571+50.00
END STA. 572+50.00

22-JAN-2015 07:52
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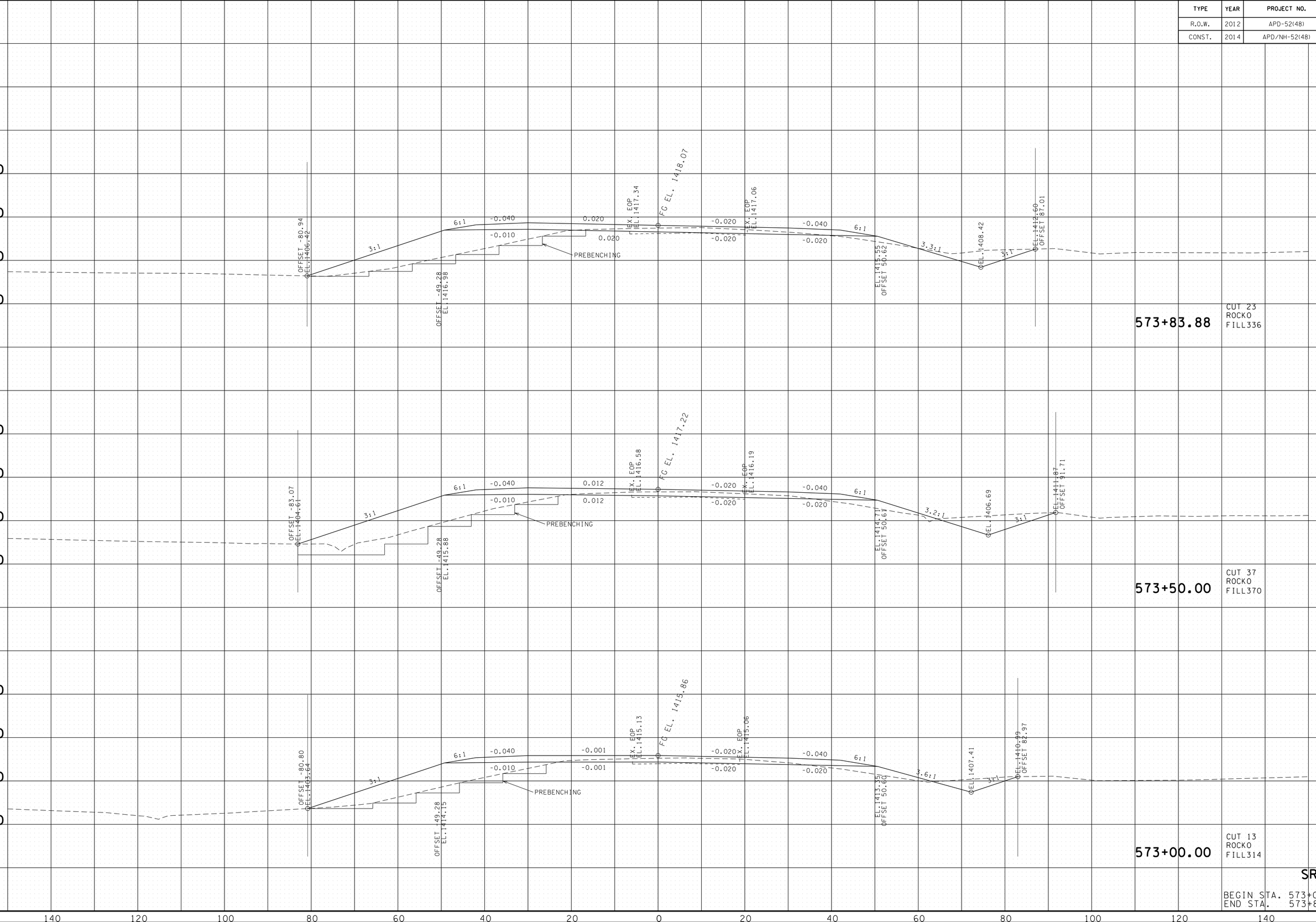
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	74
CONST.	2014	APD/NH-52(48)	81

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



SR-52

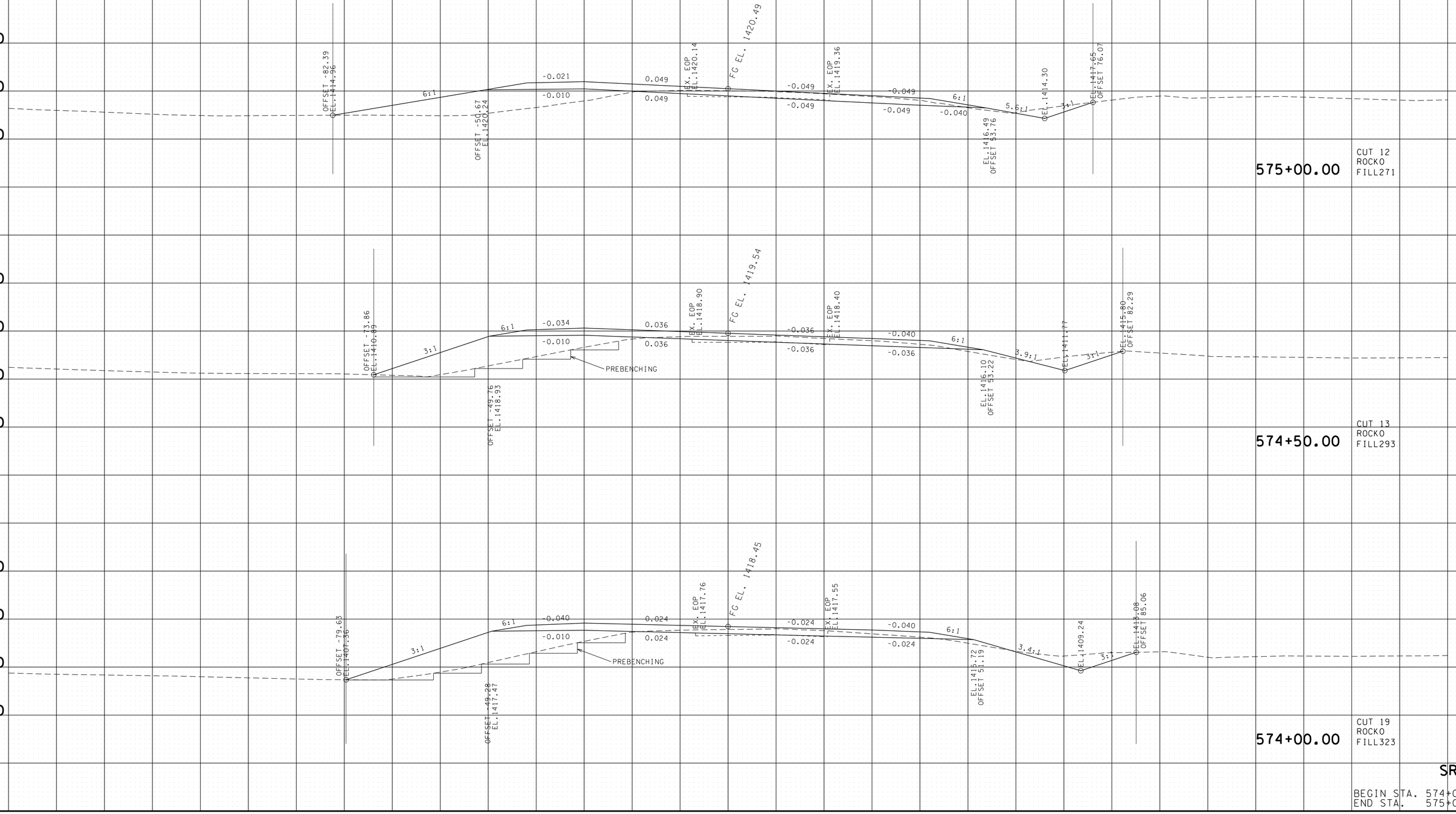
BEGIN STA. 573+00.00
END STA. 573+83.88

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	75
CONST.	2014	APD/NH-52(48)	82



SR-52

BEGIN STA. 574+00.00
END STA. 575+00.00

22-JAN-2015 07:52
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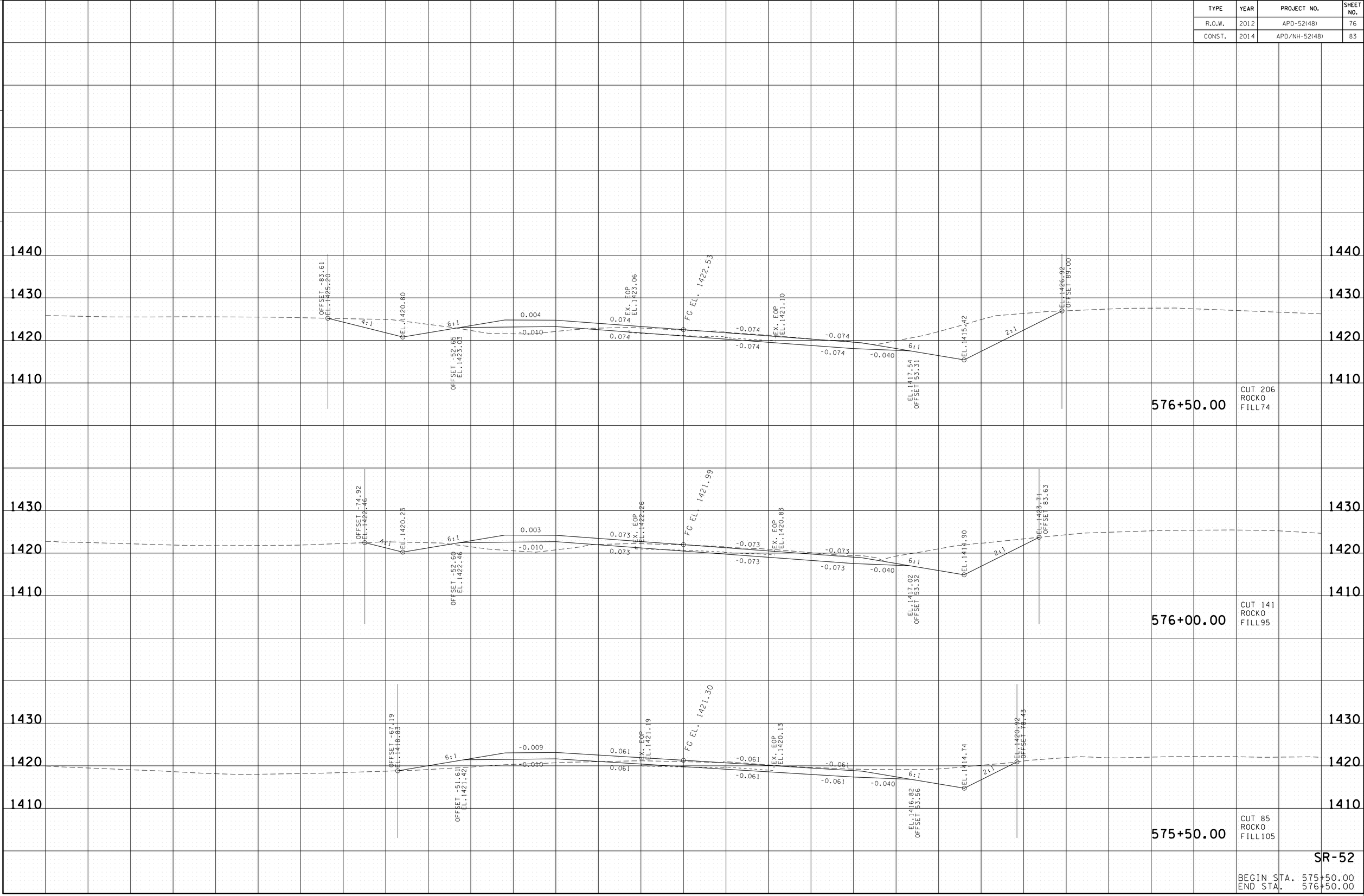
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	76
CONST.	2014	APD/NH-52(48)	83

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



SR-52

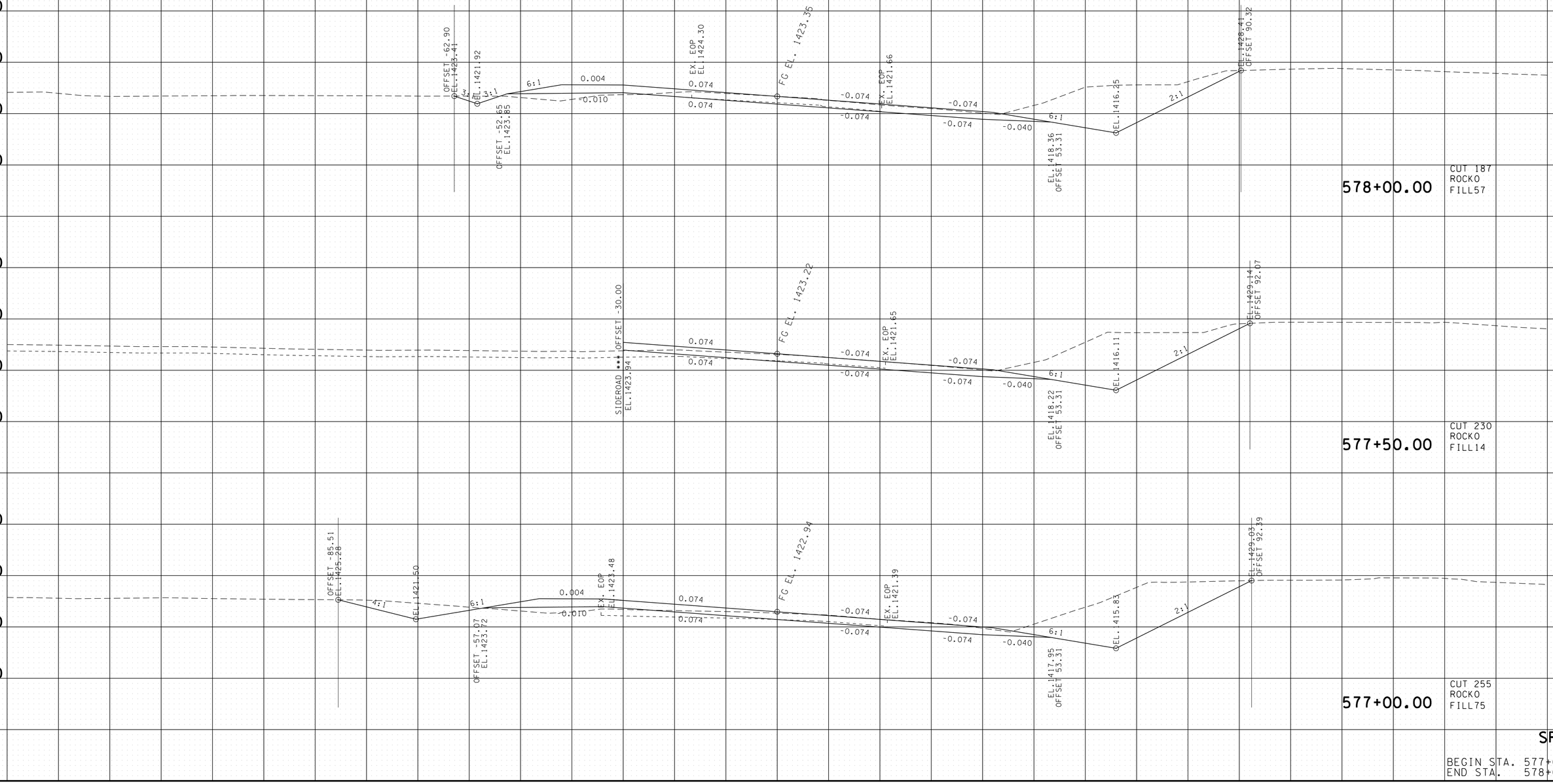
BEGIN STA. 575+50.00
END STA. 576+50.00

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	77
CONST.	2014	APD/NH-52(48)	84



SR-52

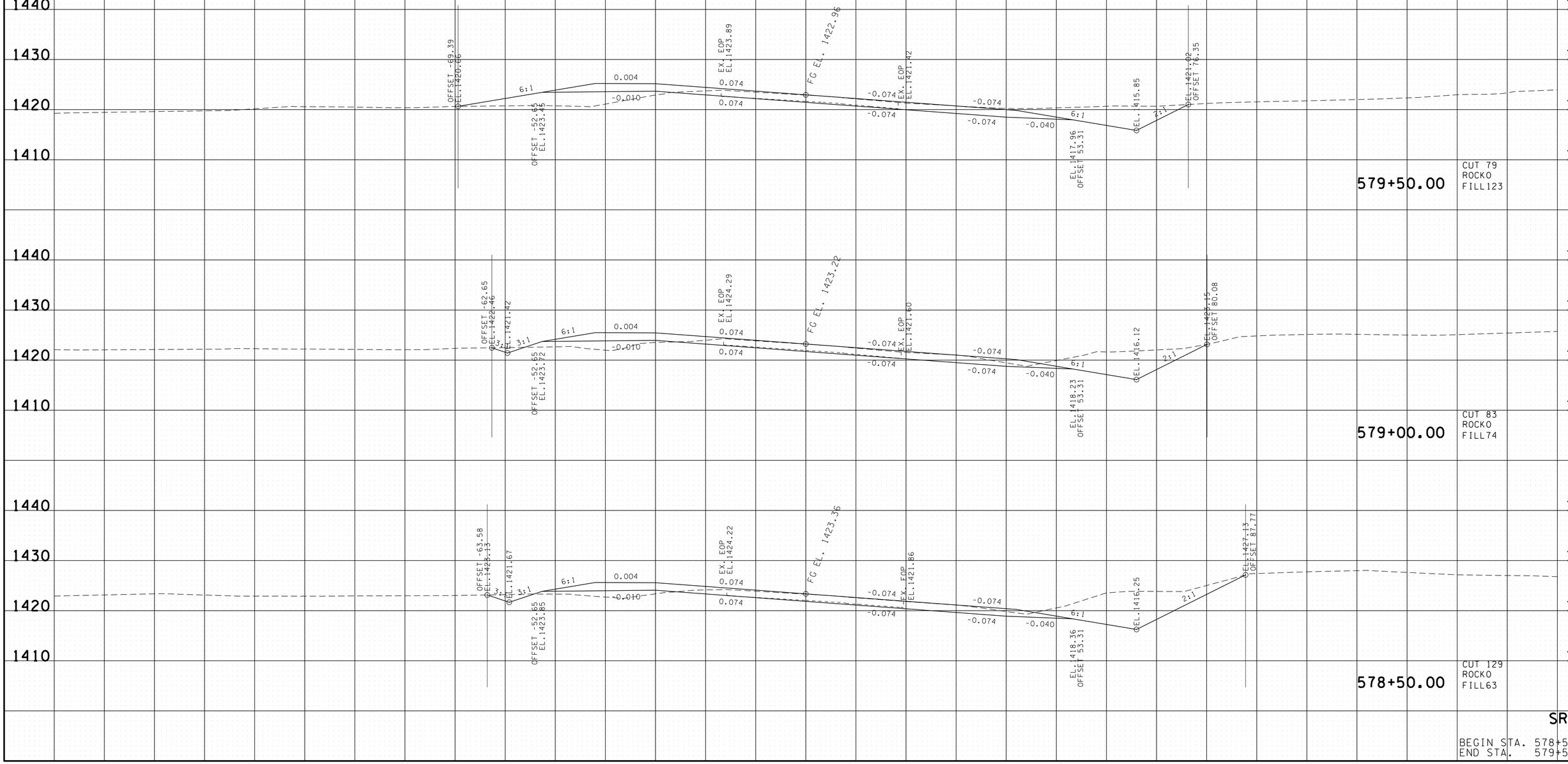
BEGIN STA. 577+00.00
END STA. 578+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	78
CONST.	2014	APD/NH-52(48)	85

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



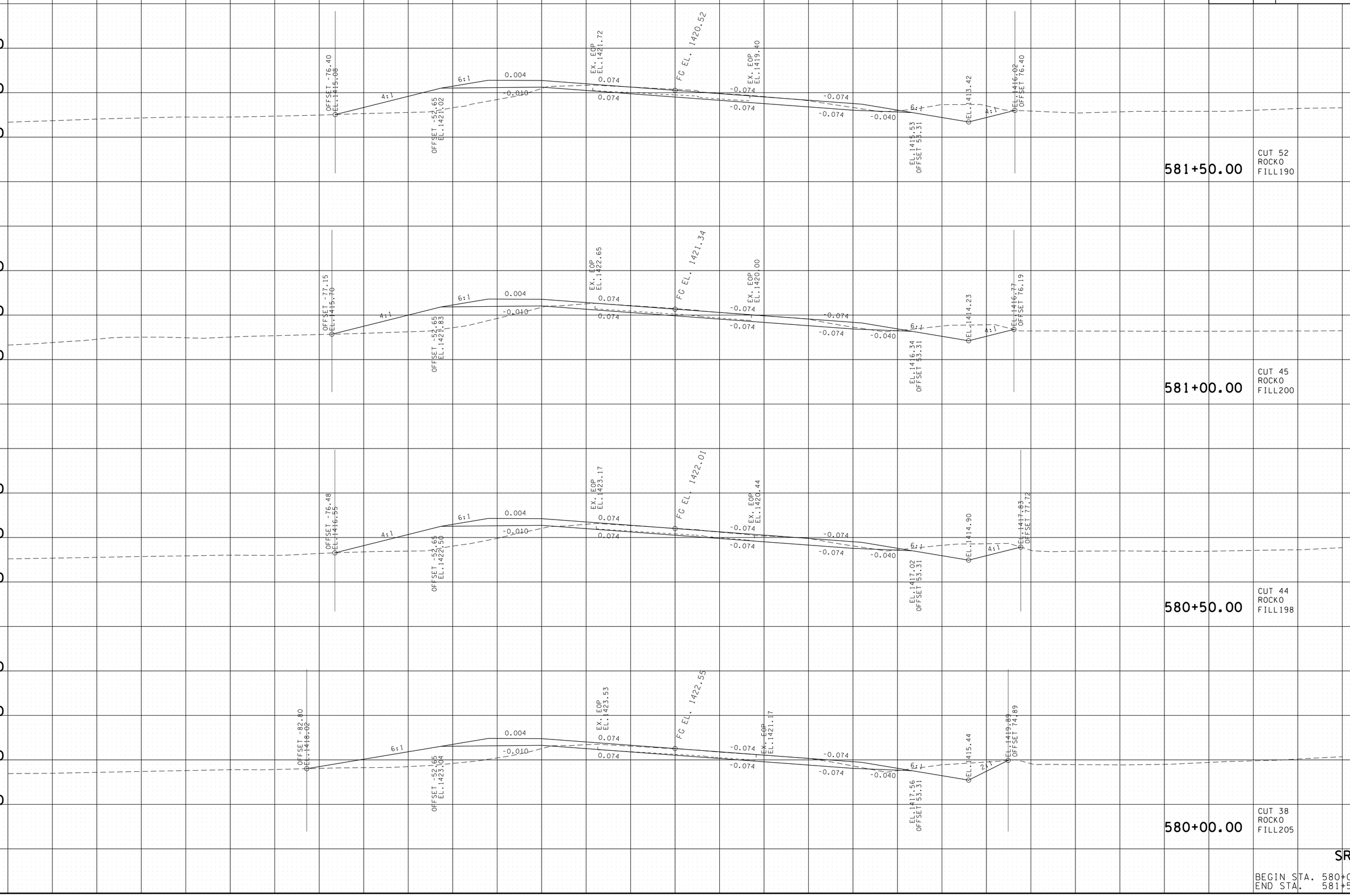
SR-52

BEGIN STA. 578+50.00
END STA. 579+50.00

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	79
CONST.	2014	APD/NH-52(48)	86

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



SR-52

BEGIN STA. 580+00.00
END STA. 581+50.00

22-JAN-2015 07:52
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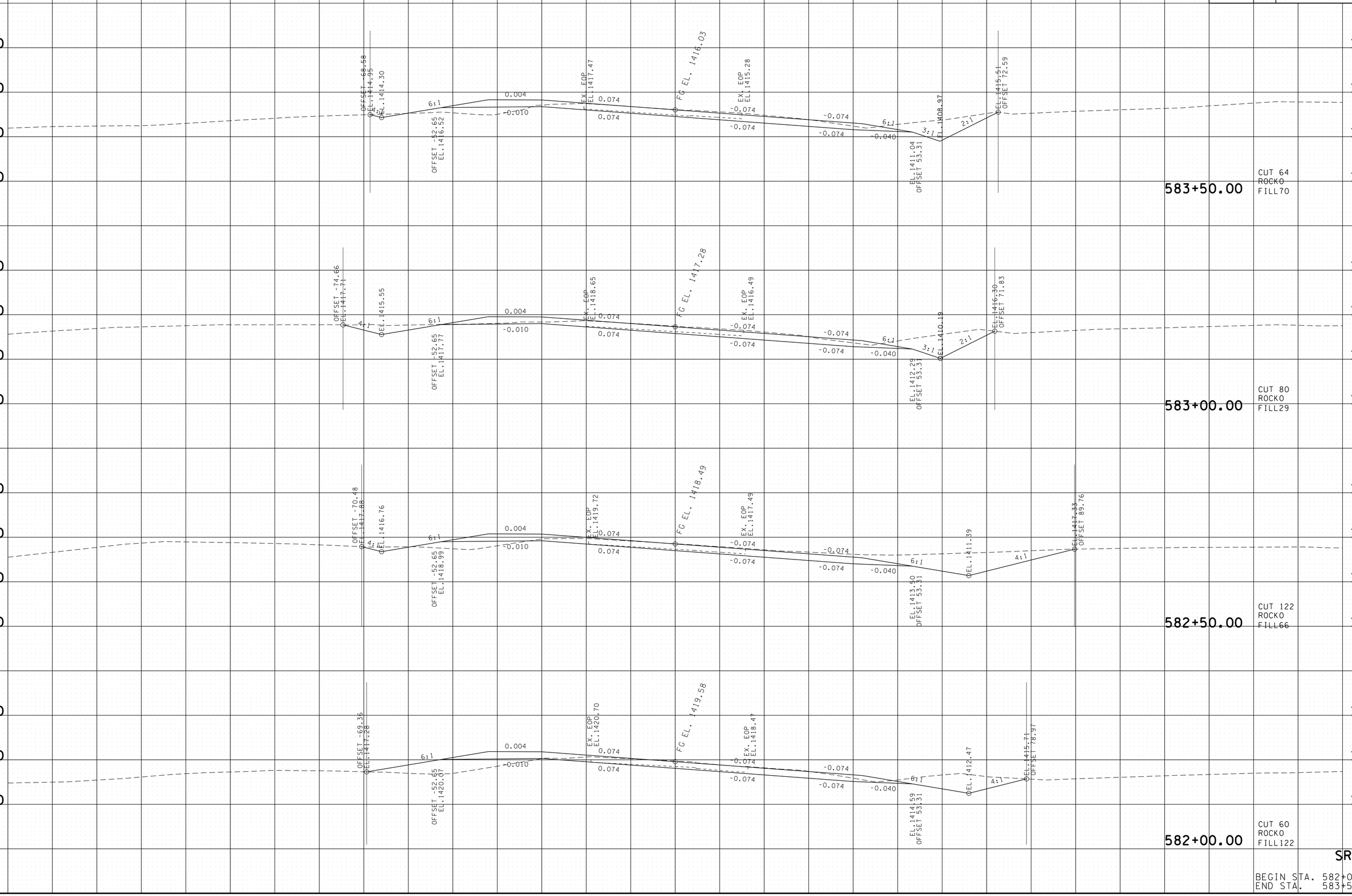
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	80
CONST.	2014	APD/NH-52(48)	87

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



SR-52

BEGIN STA. 582+00.00
END STA. 583+50.00

22-JAN-2015 07:52
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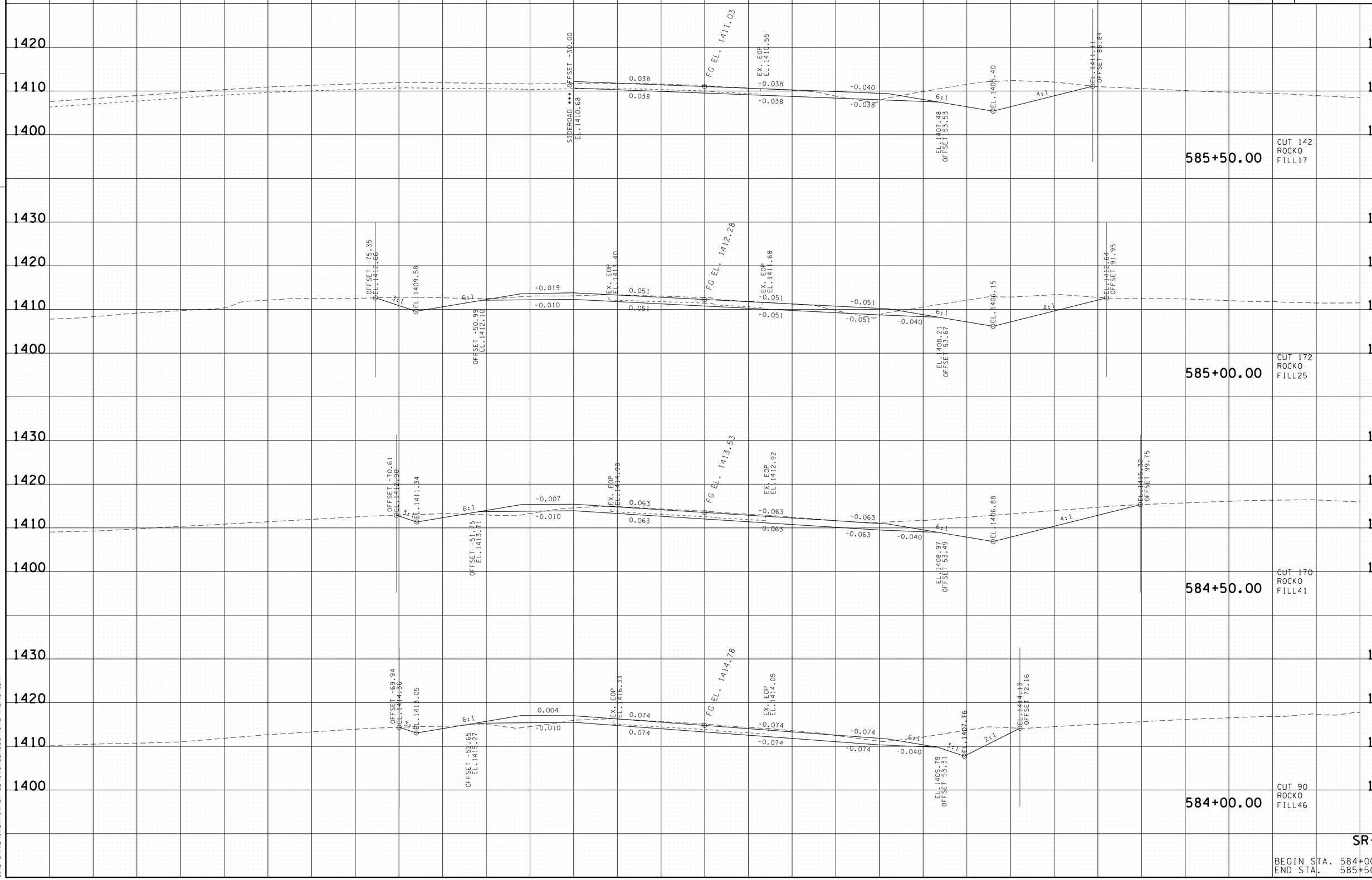
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	81
CONST.	2014	APD/NH-52(48)	88

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



SR-52

BEGIN STA. 584+00.00
END STA. 585+50.00

22-JAN-2015 07:52
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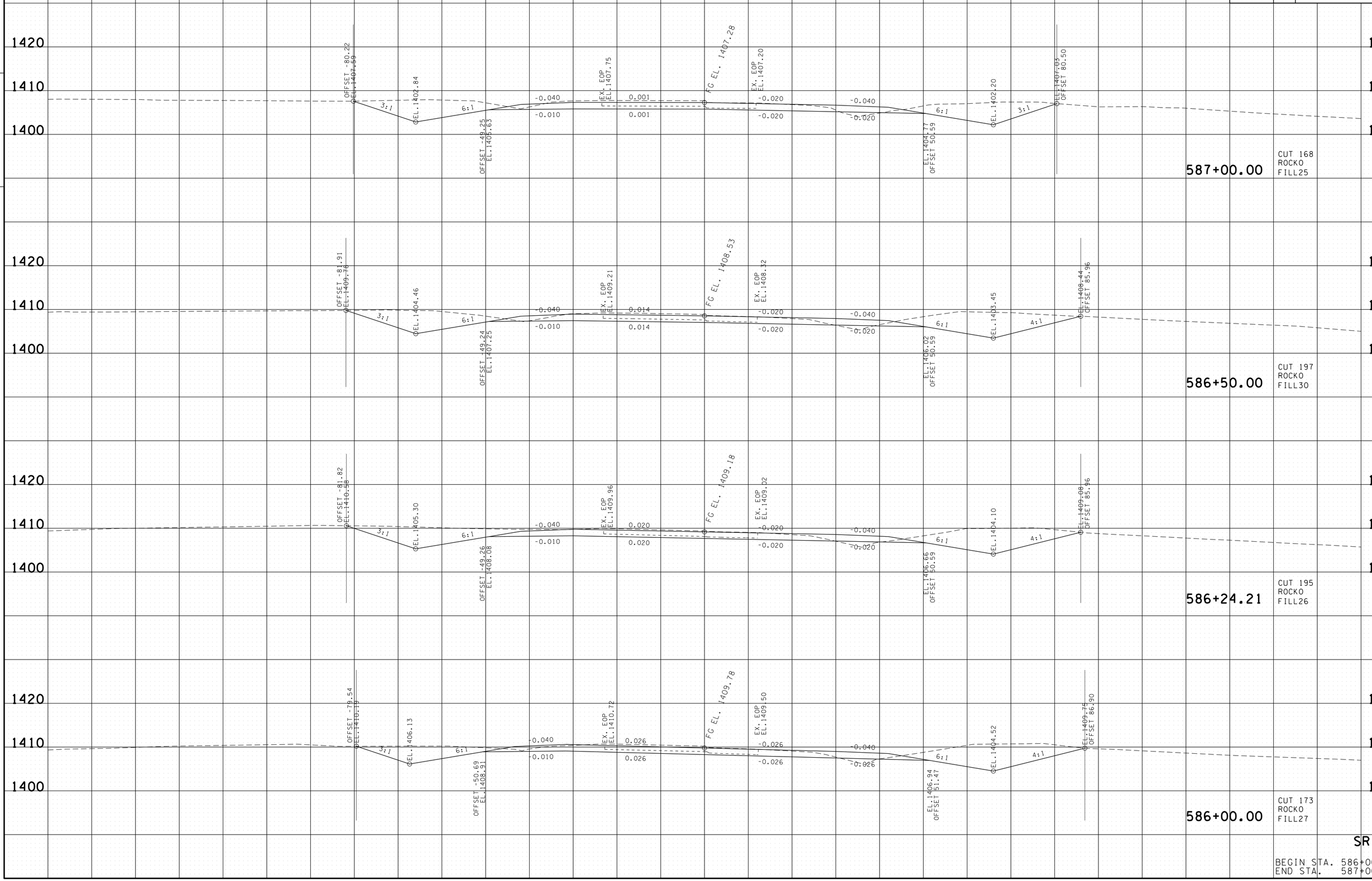
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	82
CONST.	2014	APD/NH-52(48)	89

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



SR-52

BEGIN STA. 586+00.00
END STA. 587+00.00

22-JAN-2015 07:52
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	83
CONST.	2014	APD/NH-52(48)	90

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

SR-52

BEGIN STA. 587+50.00
END STA. 588+50.00

22-JAN-2015 07:52
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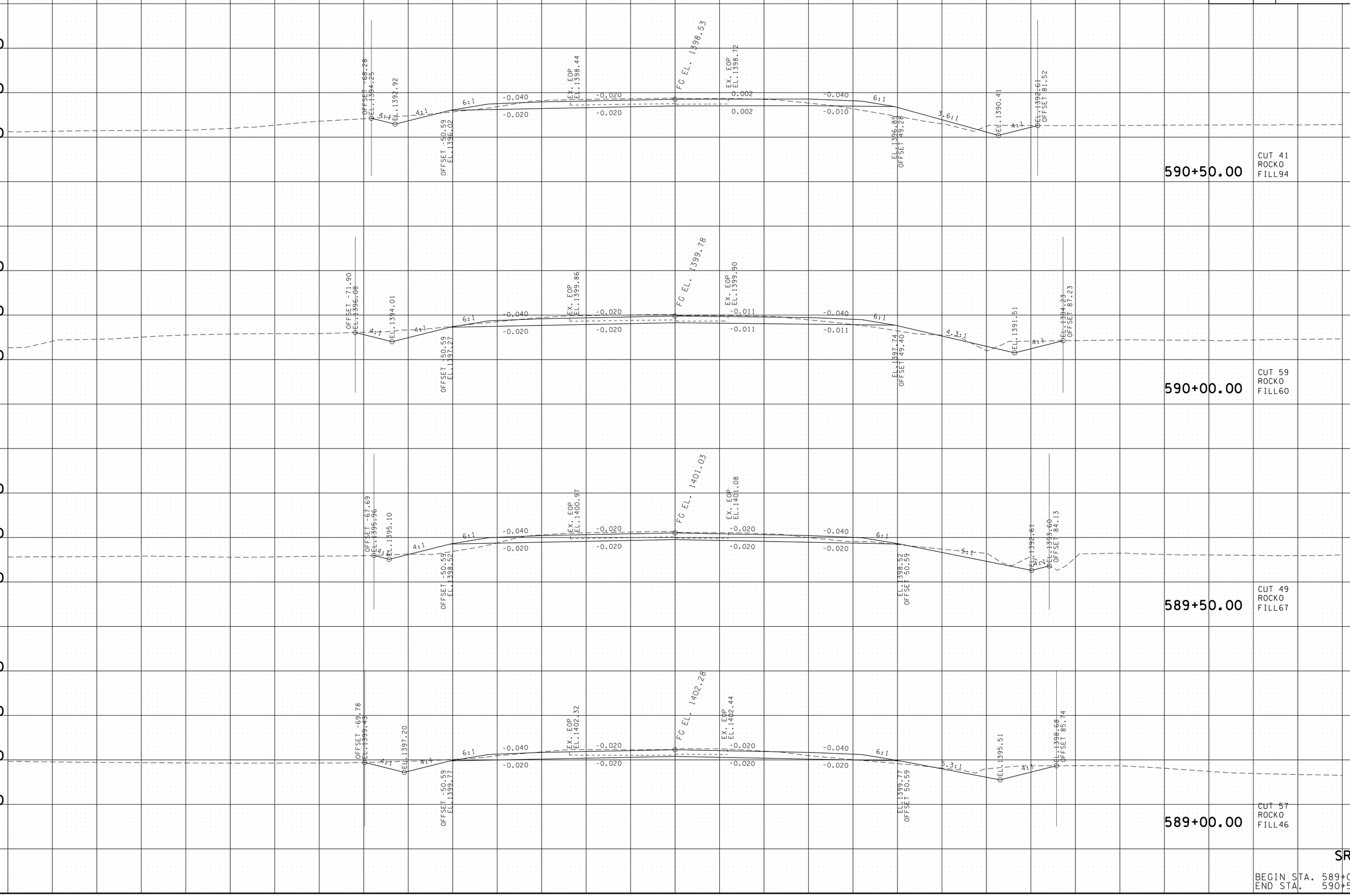
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	84
CONST.	2014	APD/NH-52(48)	91

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



SR-52

BEGIN STA. 589+00.00
END STA. 590+50.00

22-JAN-2015 07:52
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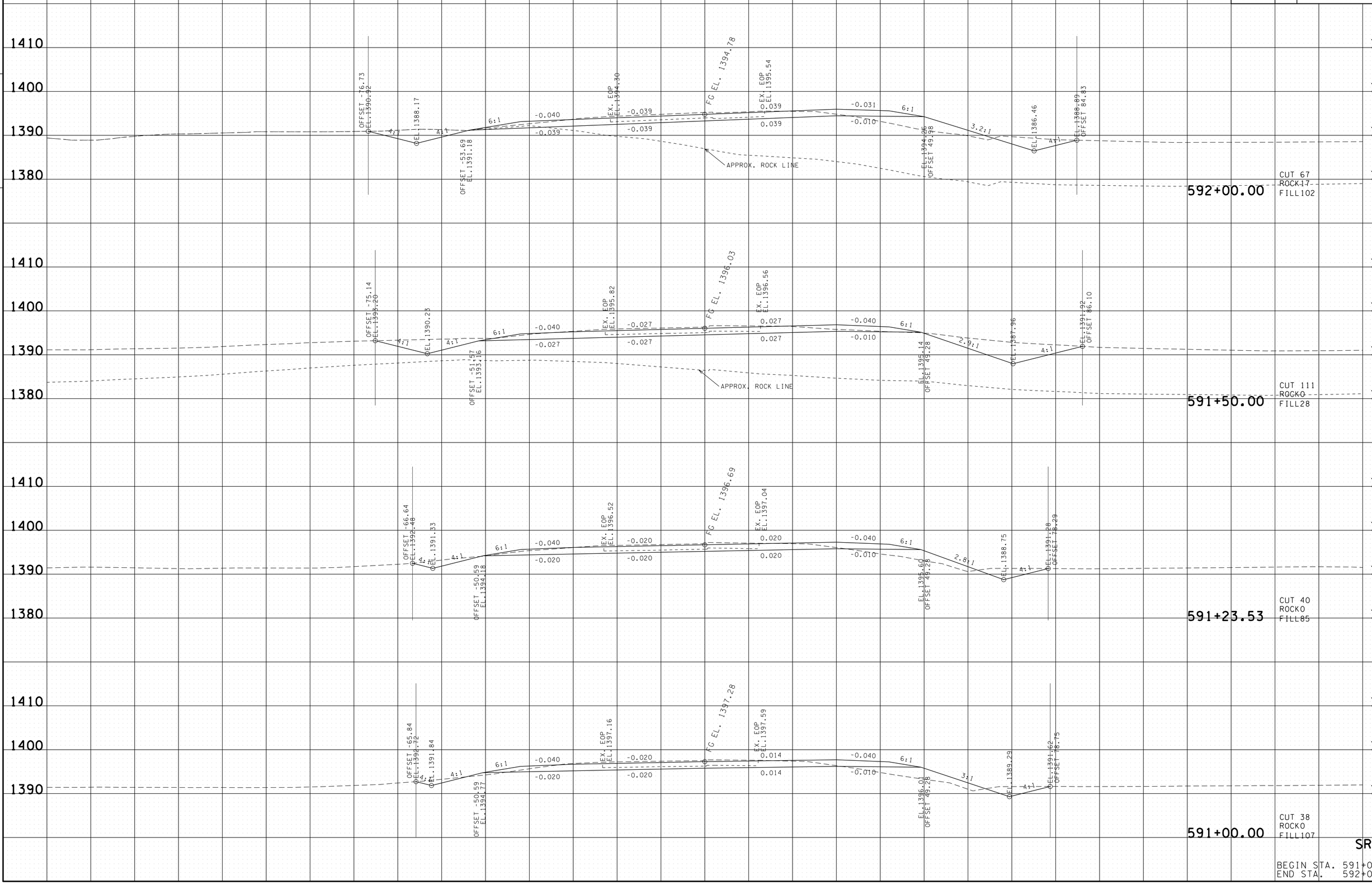
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	85
CONST.	2014	APD/NH-52(48)	92

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



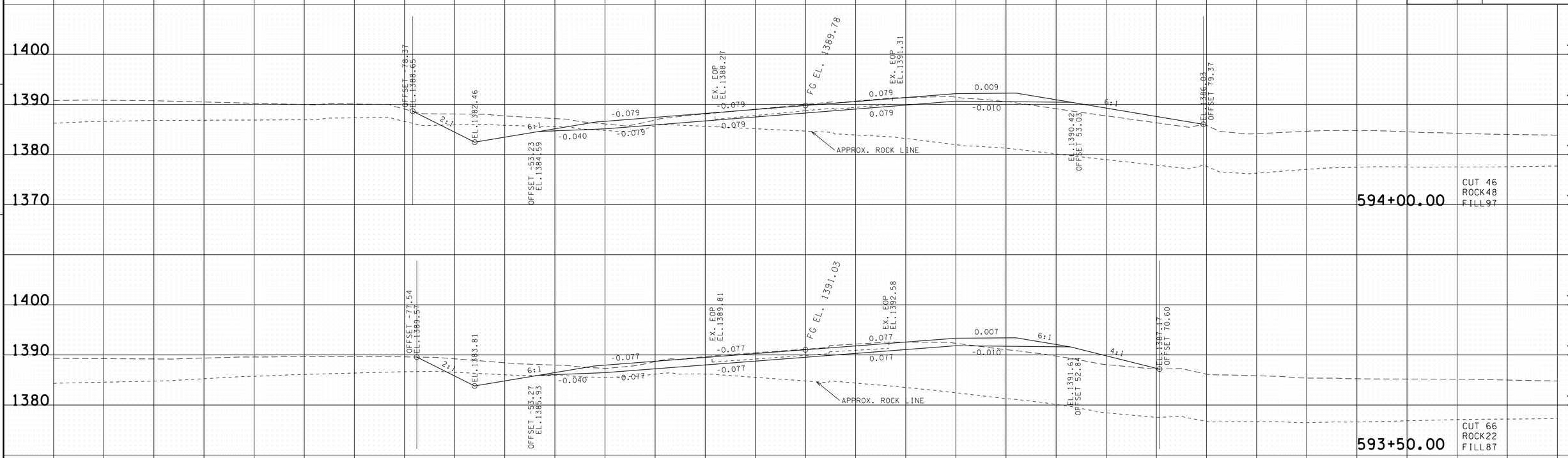
SR-52

BEGIN STA. 591+00.00
END STA. 592+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	86
CONST.	2014	APD/NH-52(48)	93

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



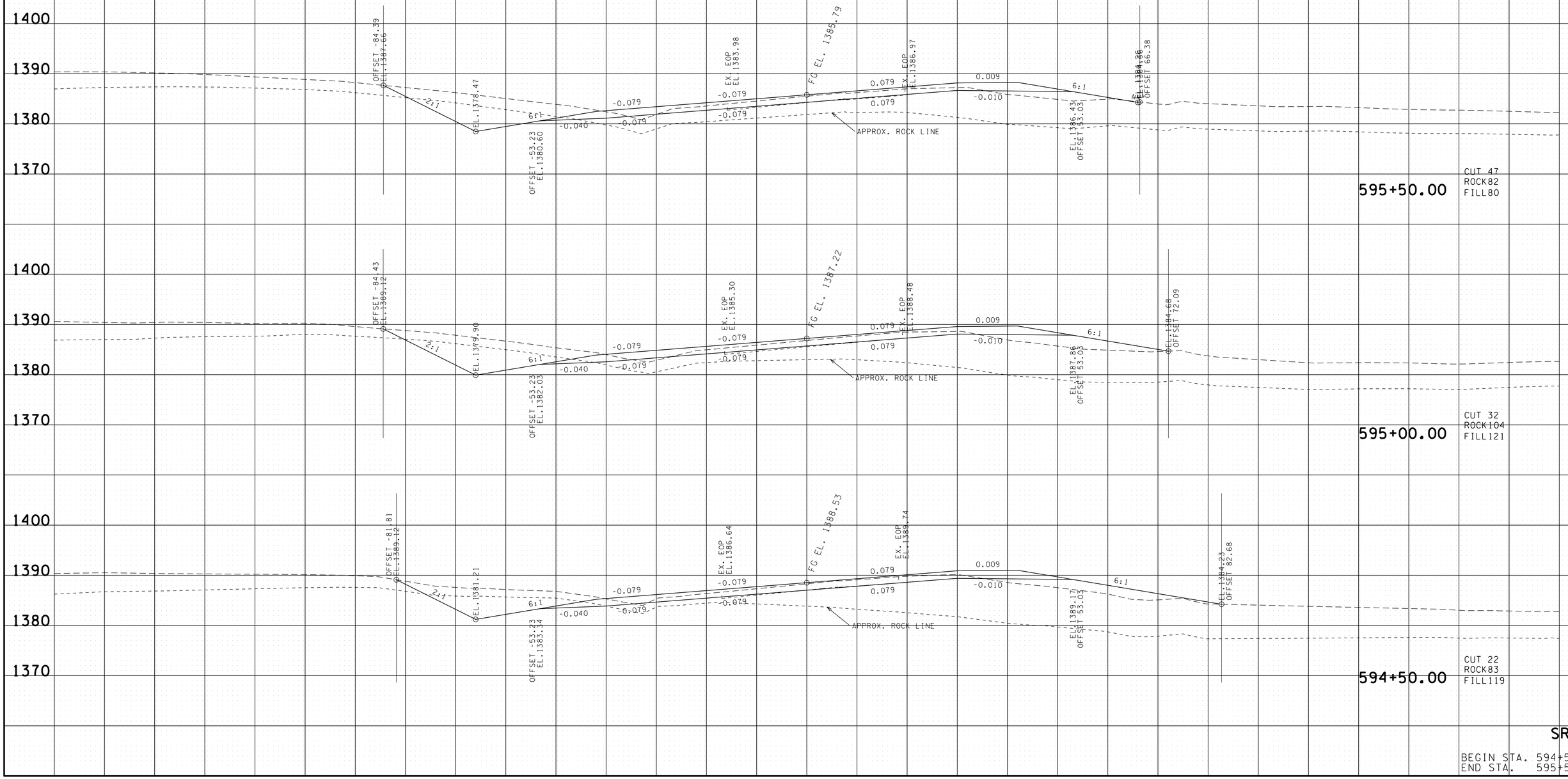
SR-52

BEGIN STA. 592+50.00
END STA. 594+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	87
CONST.	2014	APD/NH-52(48)	94

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



SR-52

BEGIN STA. 594+50.00
END STA. 595+50.00

22-JAN-2015 07:52
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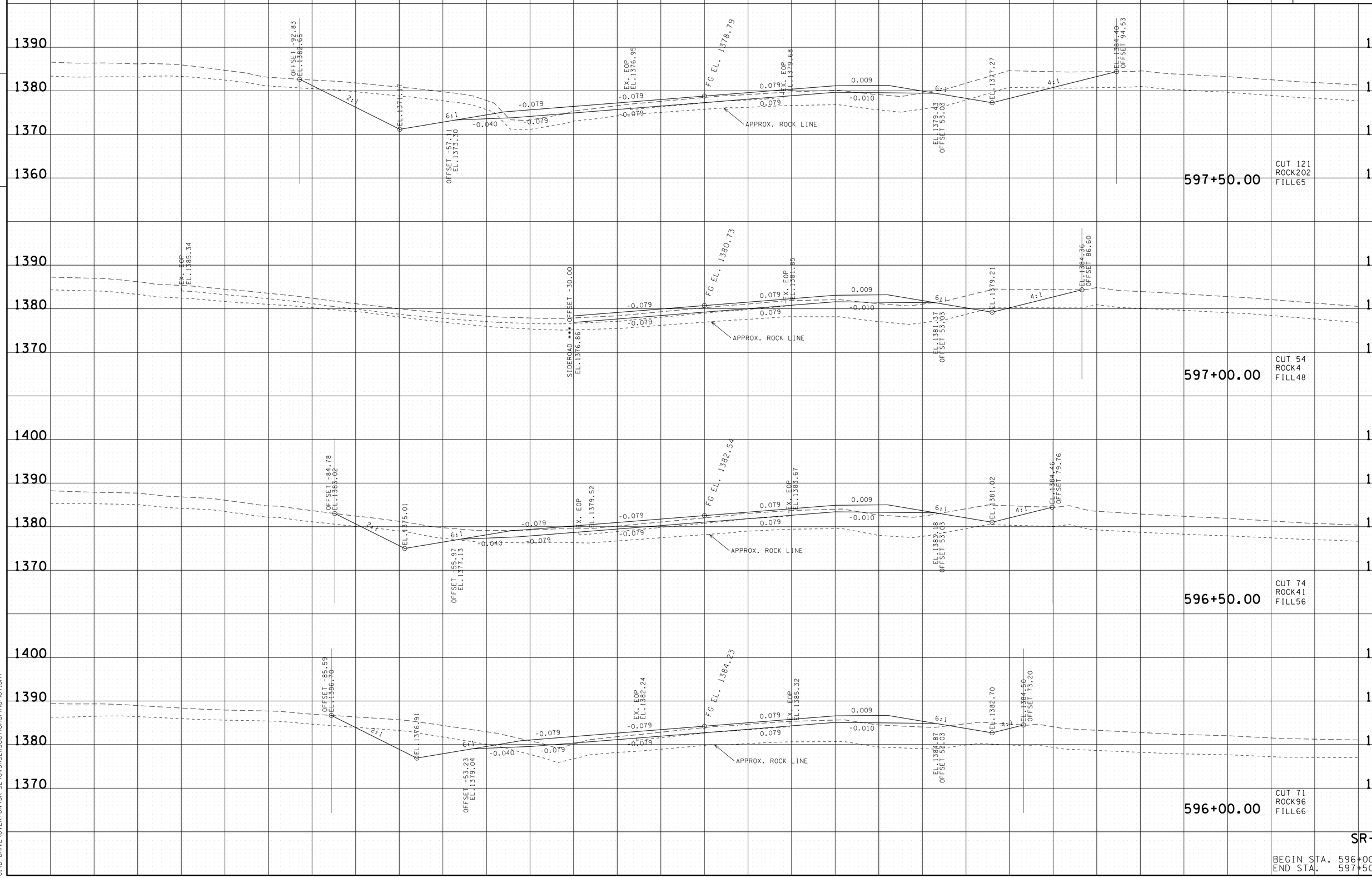
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	88
CONST.	2014	APD/NH-52(48)	95

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



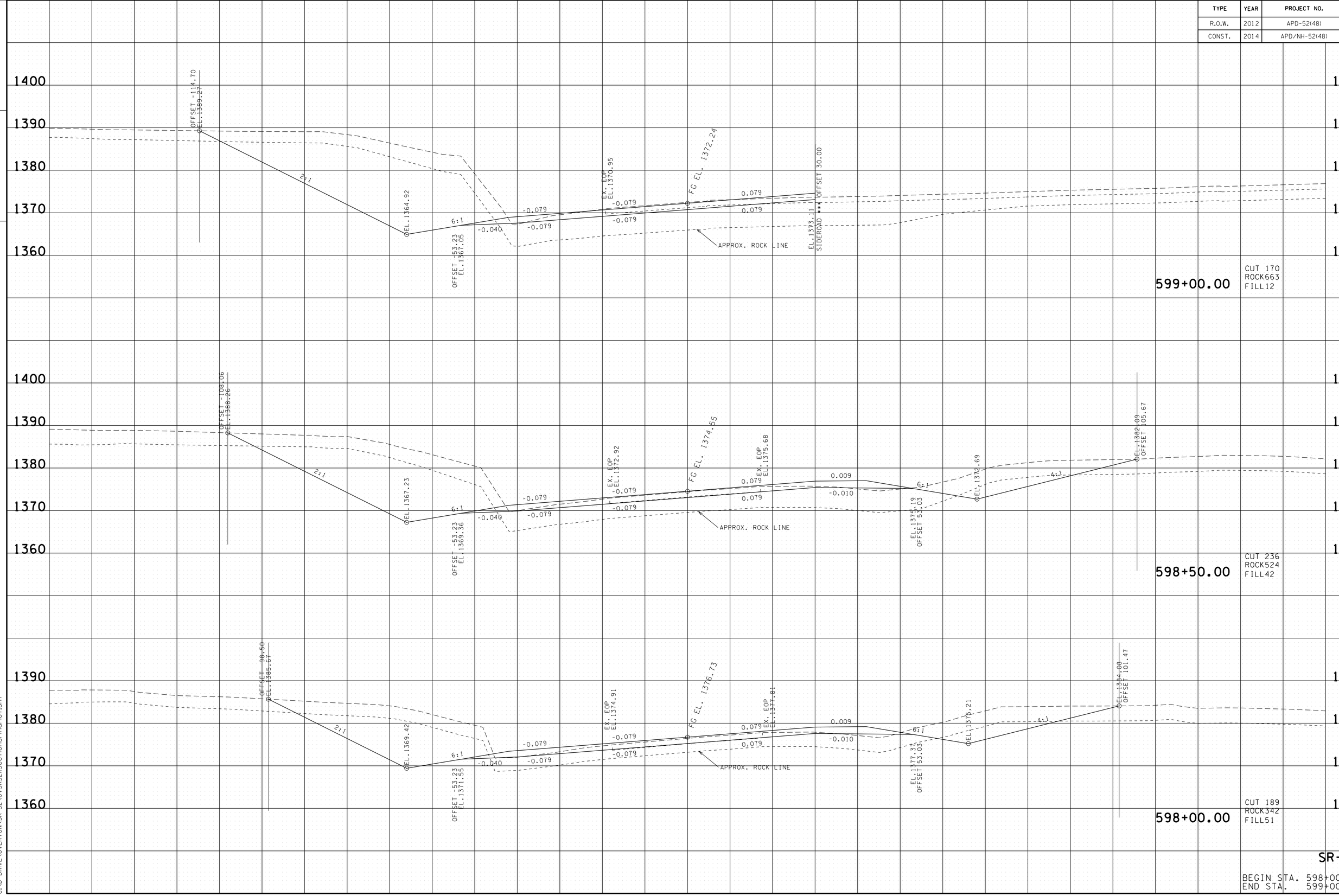
SR-52

BEGIN STA. 596+00.00
END STA. 597+50.00

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	89
CONST.	2014	APD/NH-52(48)	96

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



SR-52

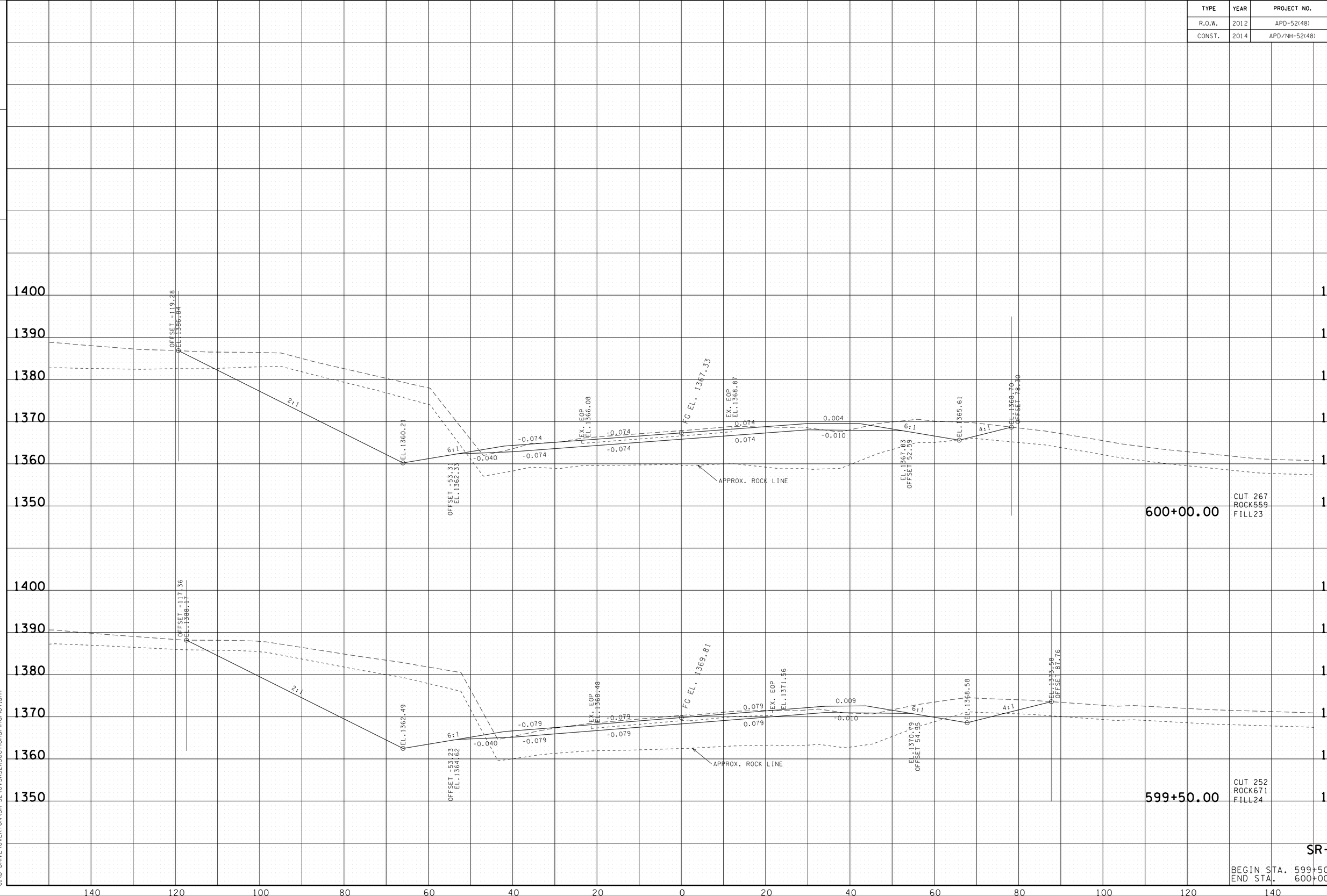
BEGIN STA. 598+00.00
END STA. 599+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	90
CONST.	2014	APD/NH-52(48)	97

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



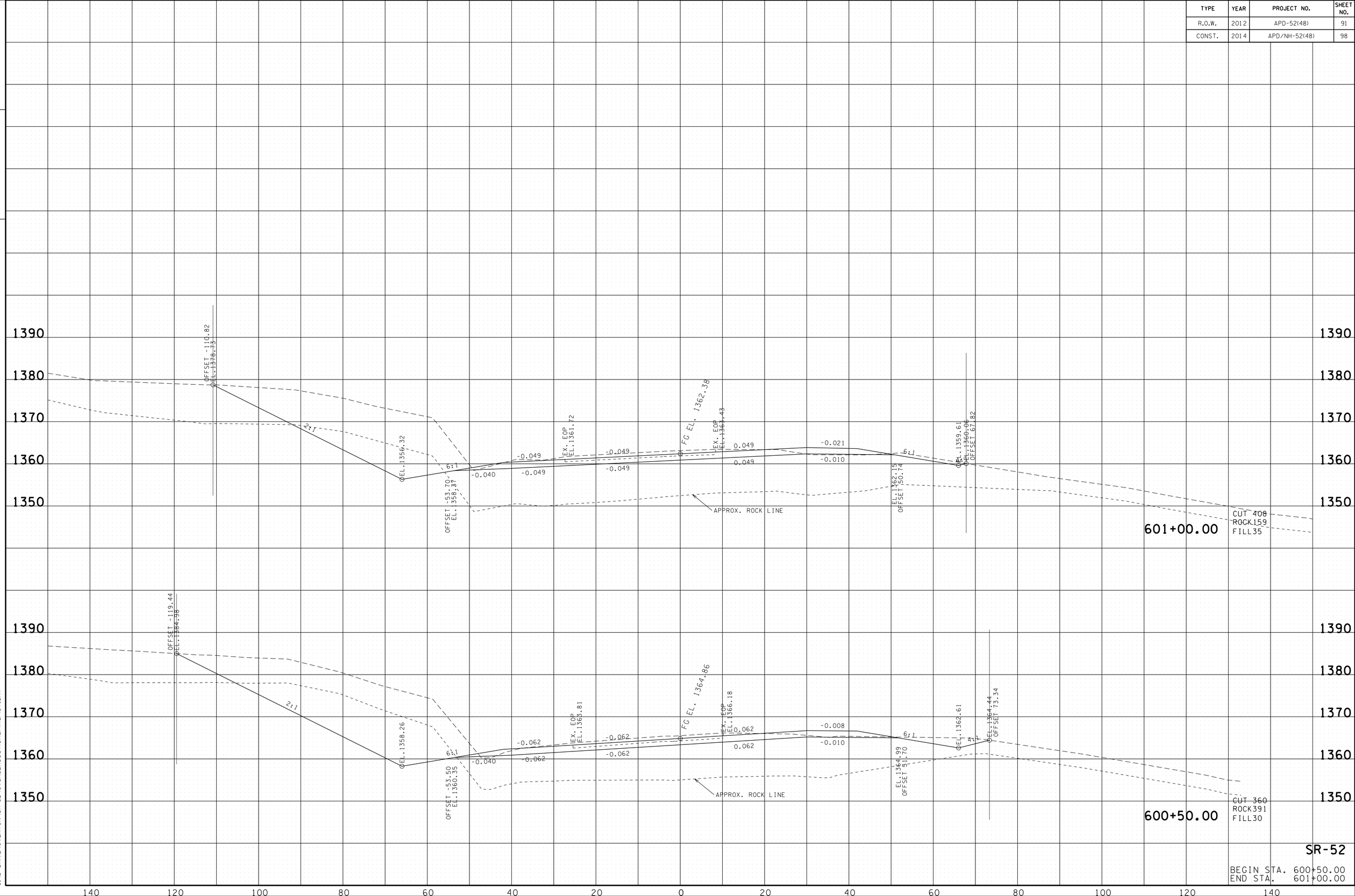
SR-52

BEGIN STA. 599+50.00
END STA. 600+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	91
CONST.	2014	APD/NH-52(48)	98

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



SR-52

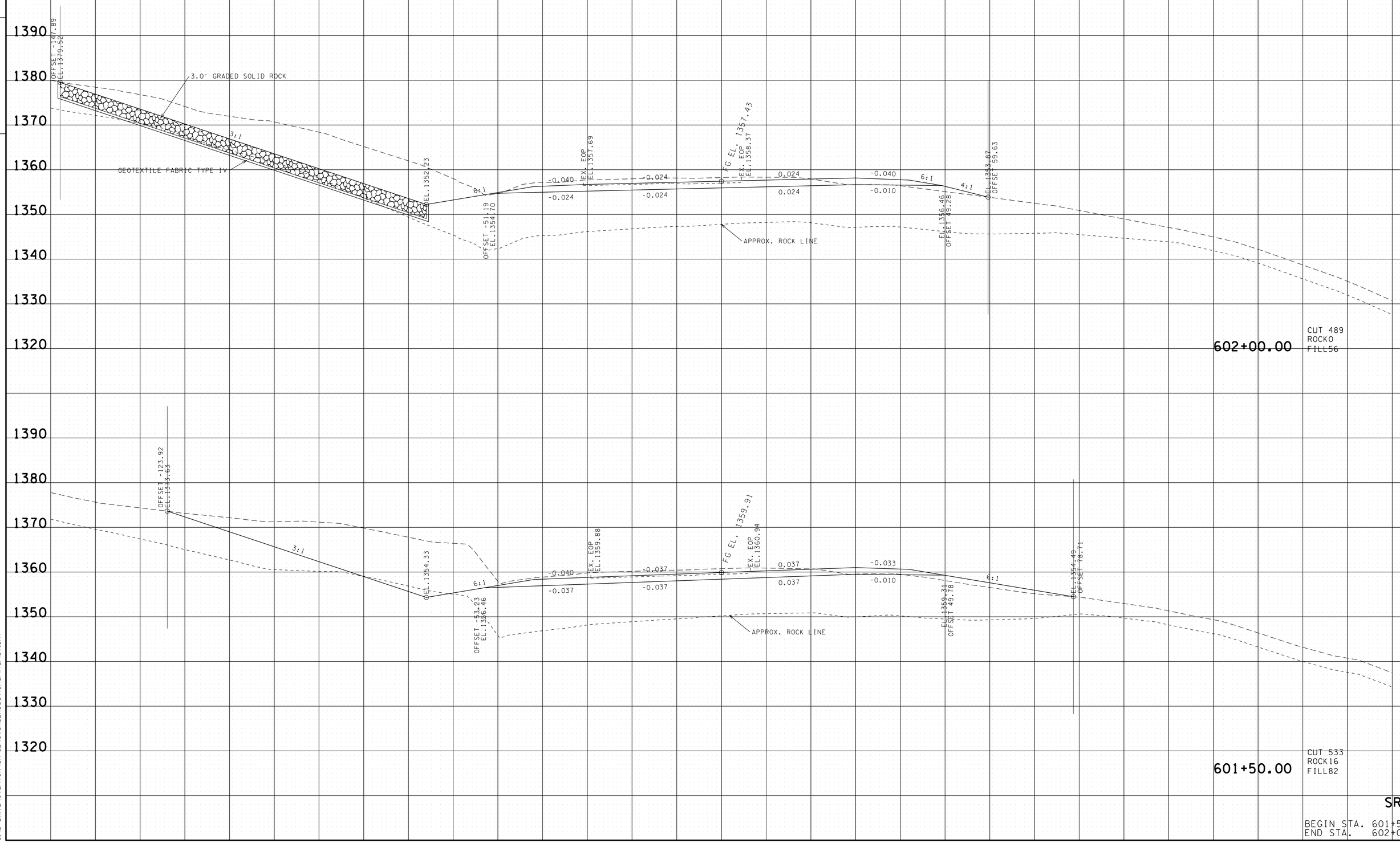
BEGIN STA. 600+50.00
END STA. 601+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	92
CONST.	2014	APD/NH-52(48)	99

REV. 07-15-13

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



SR-52

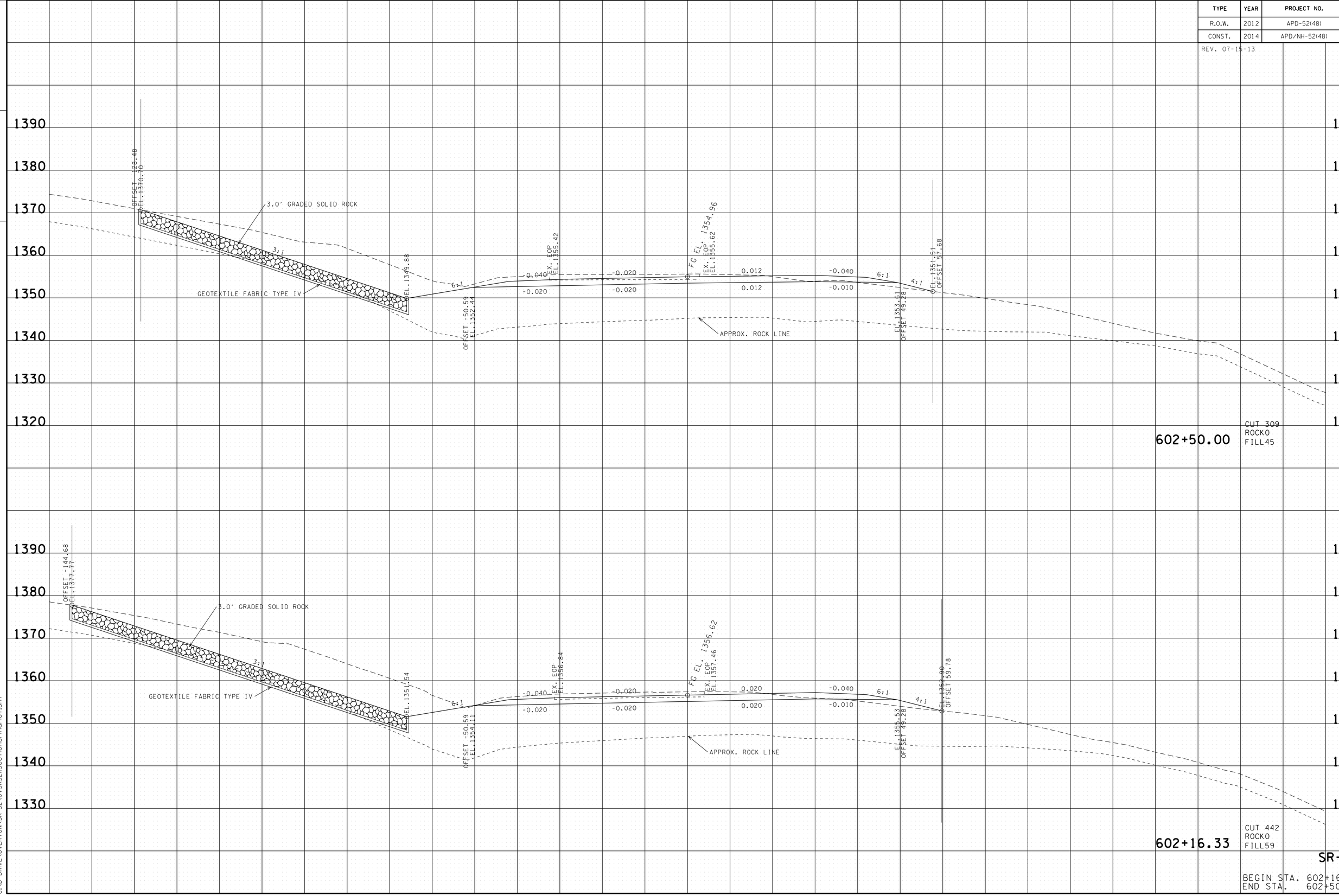
BEGIN STA. 601+50.00
END STA. 602+00.00

22-JAN-2015 07:52
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	93
CONST.	2014	APD/NH-52(48)	100

REV. 07-15-13

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



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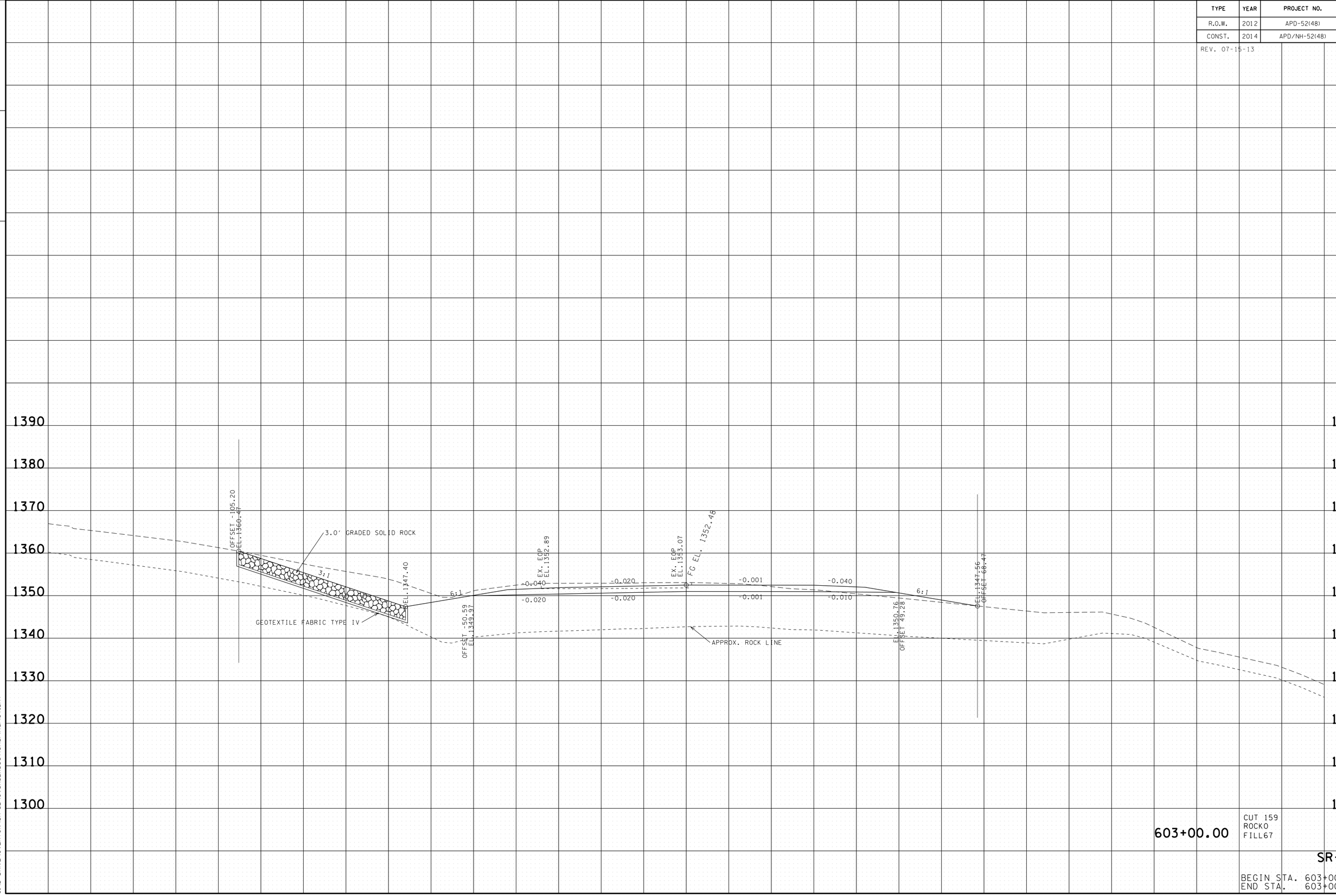
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	94
CONST.	2014	APD/NH-52(48)	101

REV. 07-15-13



603+00.00

CUT 159
ROCK0
FILL67

SR-52

BEGIN STA. 603+00.00
END STA. 603+00.00

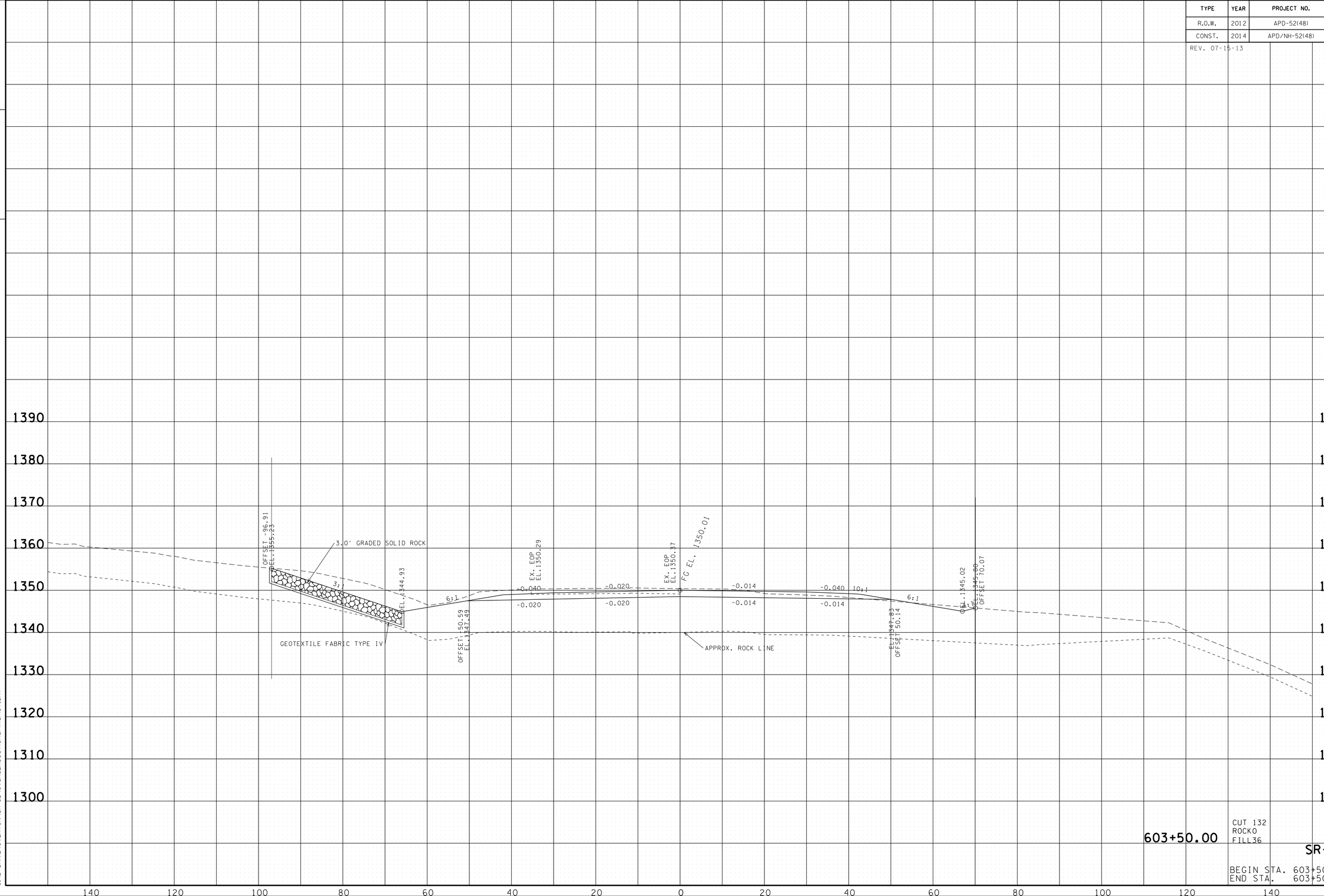
22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	95
CONST.	2014	APD/NH-52(48)	102

REV. 07-15-13



603+50.00

CUT 132
ROCKO
FILL36

SR-52

BEGIN STA. 603+50.00
END STA. 603+50.00

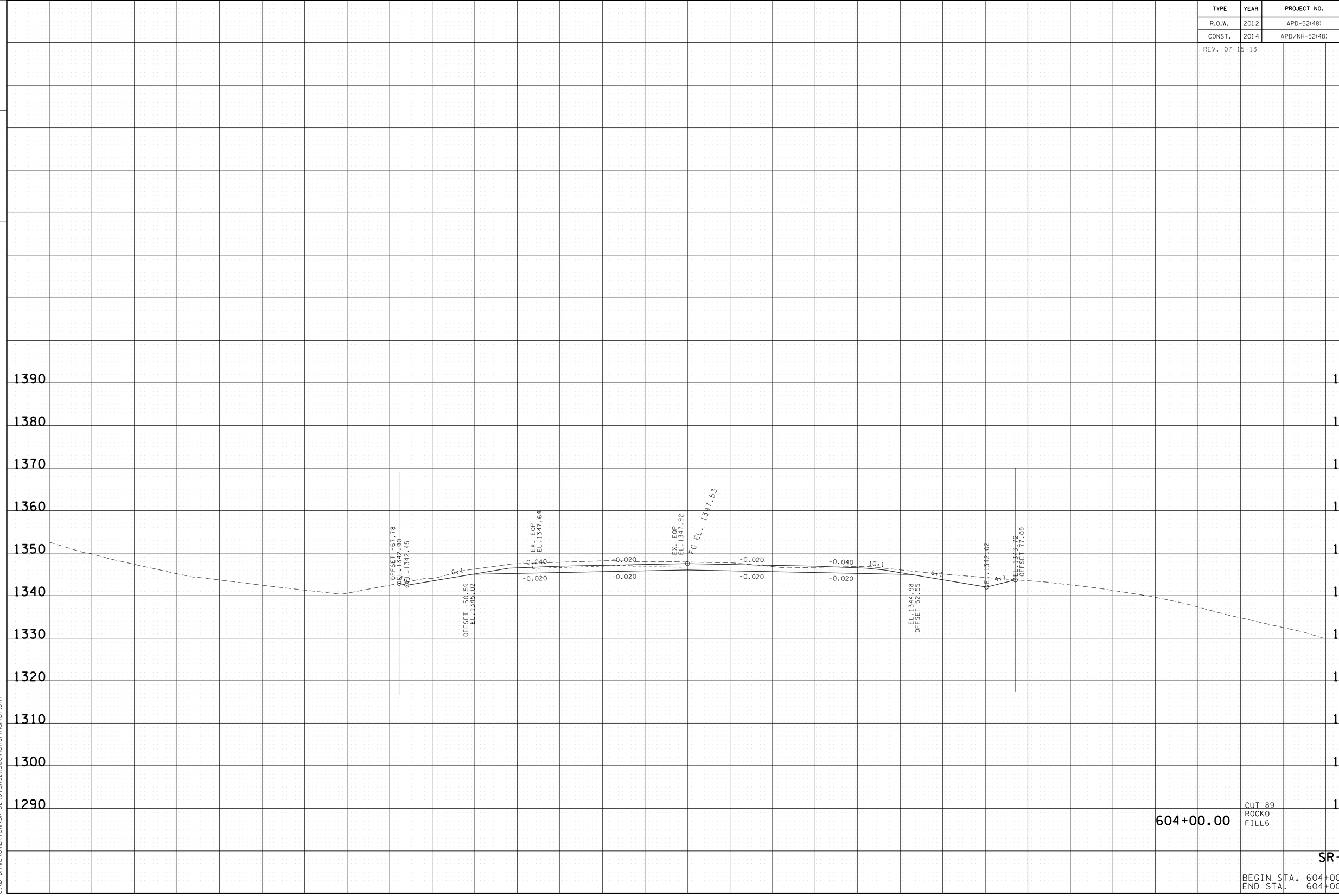
22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	96
CONST.	2014	APD/NH-52(48)	103

REV. 07-15-13



604+00.00

CUT 89
ROCKO
FILL6

SR-52

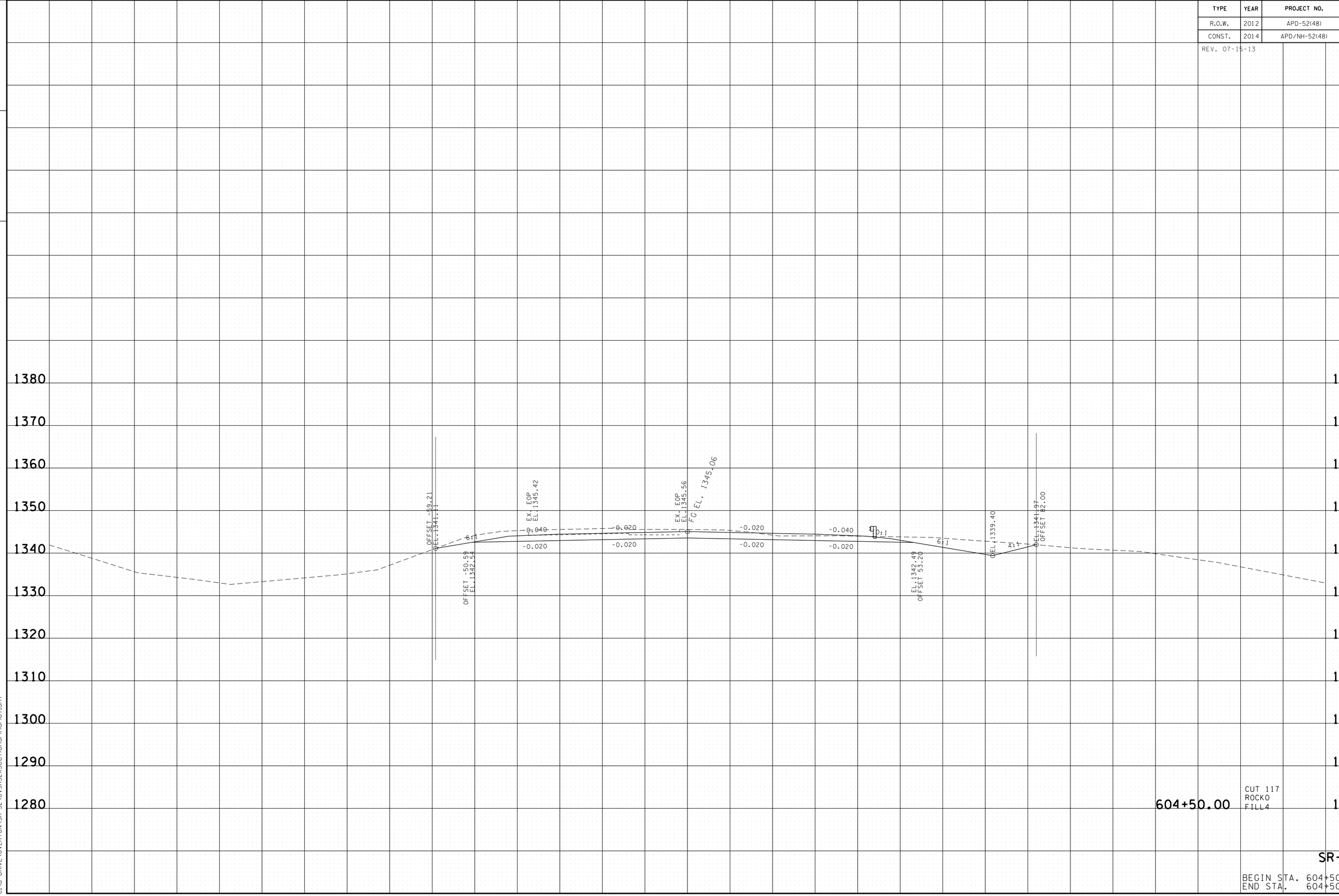
BEGIN STA. 604+00.00
END STA. 604+00.00

22-JAN-2015 07:52
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	97
CONST.	2014	APD/NH-52(48)	104

REV. 07-15-13

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



604+50.00

CUT 117
ROCKO
FILL4

SR-52

BEGIN STA. 604+50.00
END STA. 604+50.00

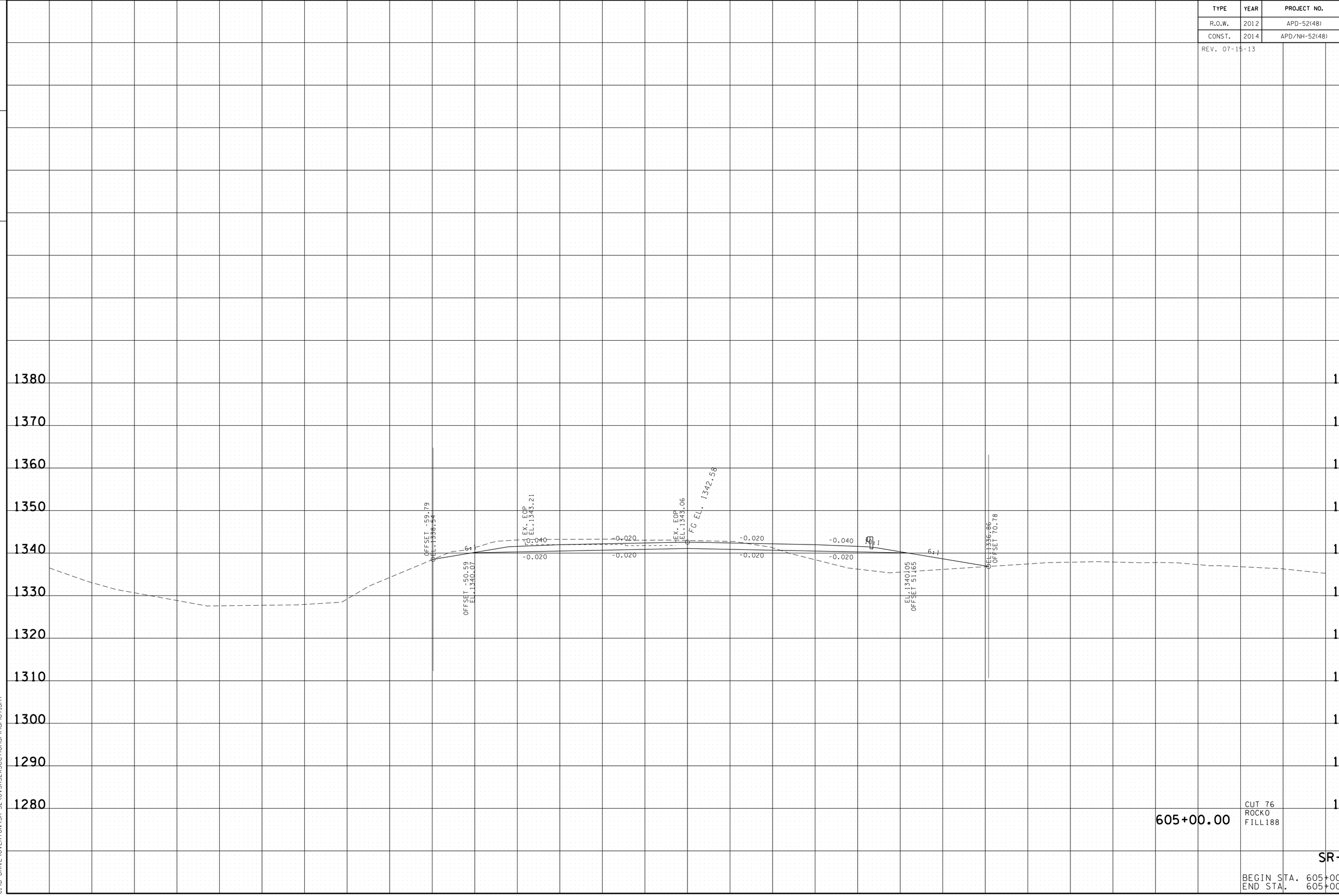
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	98
CONST.	2014	APD/NH-52(48)	105

REV. 07-15-13



605+00.00

CUT 76
ROCKO
FILL188

SR-52

BEGIN STA. 605+00.00
END STA. 605+00.00

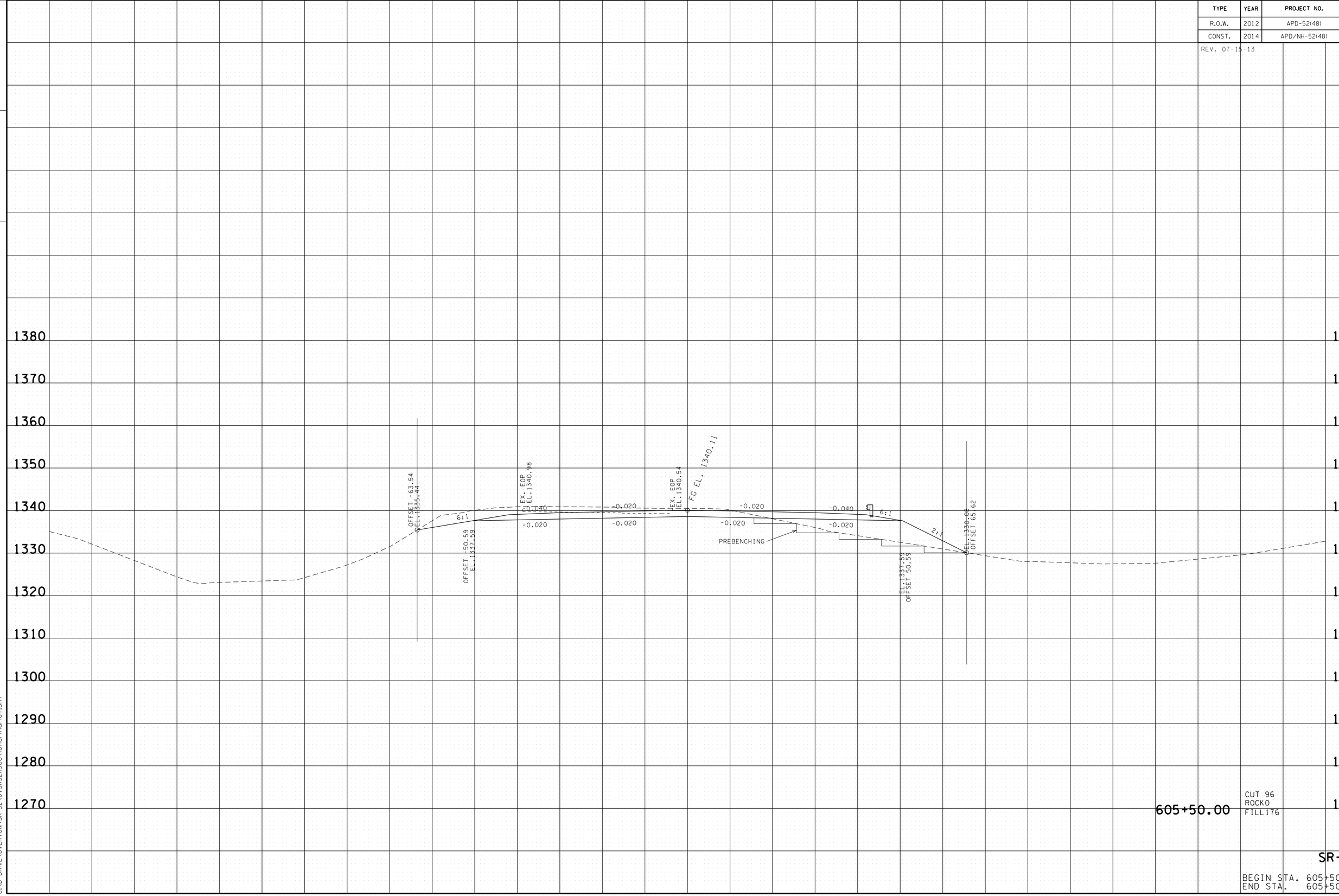
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	99
CONST.	2014	APD/NH-52(48)	106

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



605+50.00

CUT 96
ROCKO
FILL176

SR-52

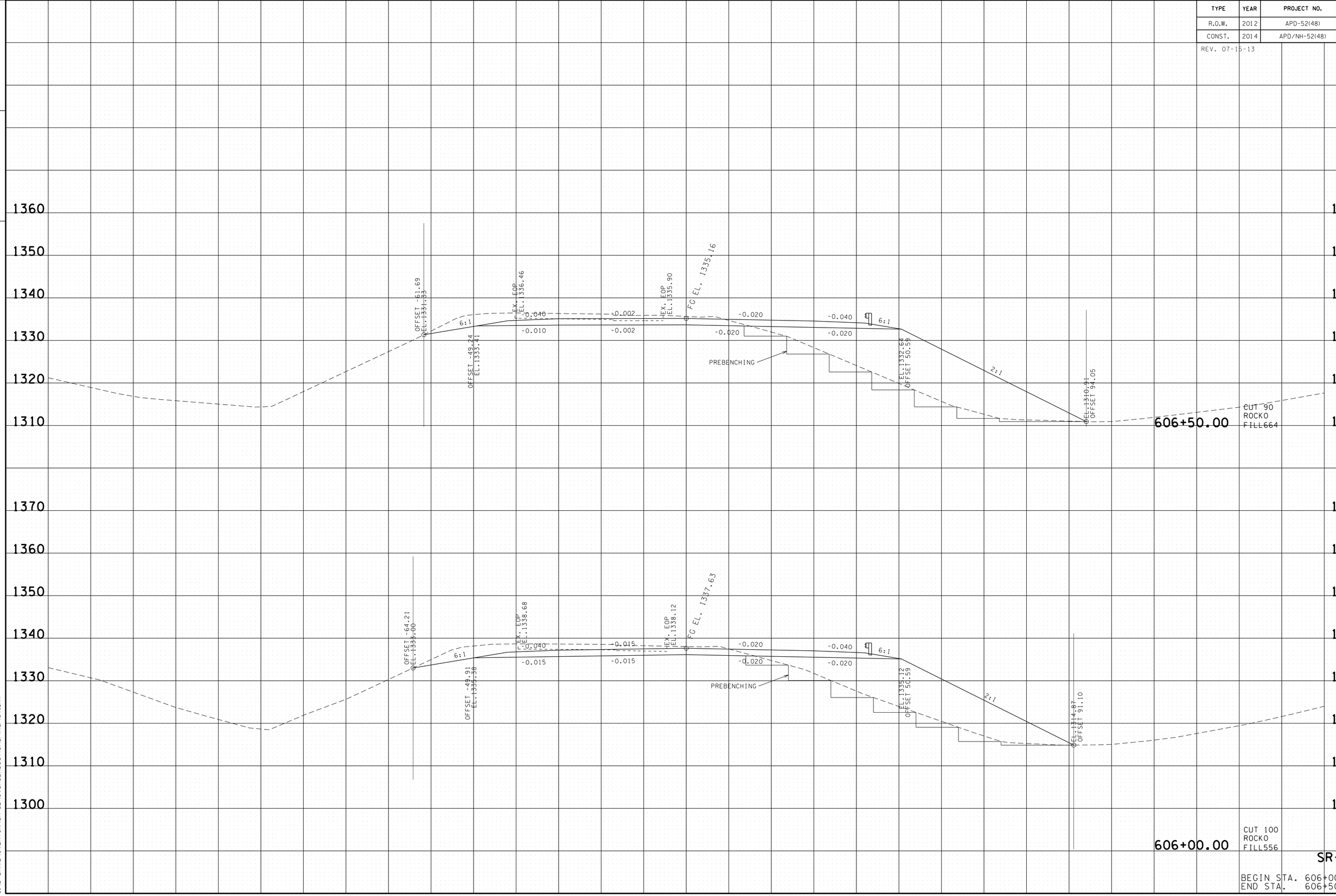
BEGIN STA. 605+50.00
END STA. 605+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	100
CONST.	2014	APD/NH-52(48)	107

REV. 07-15-13

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



SR-52

BEGIN STA. 606+00.00
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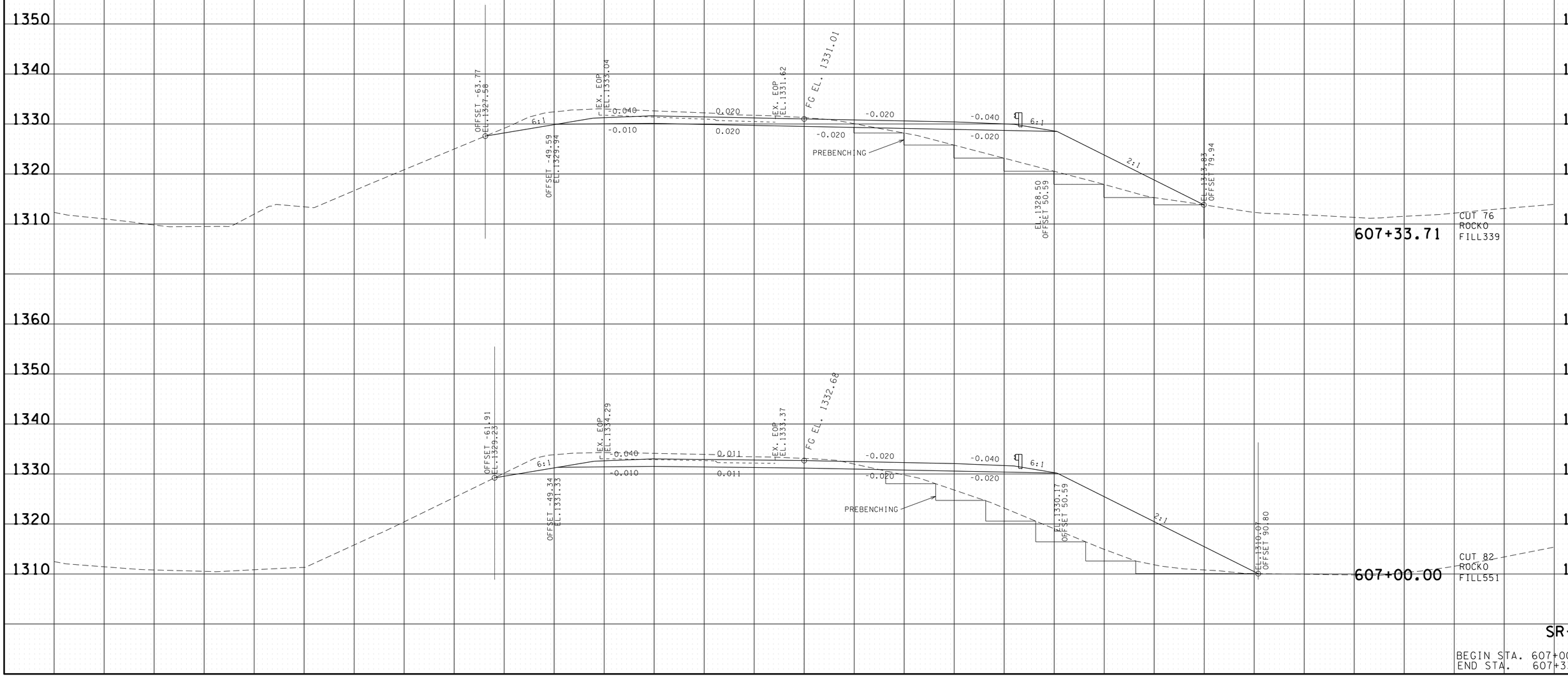
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	101
CONST.	2014	APD/NH-52(48)	108

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-52

BEGIN STA. 607+00.00
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22-JAN-2015 07:53
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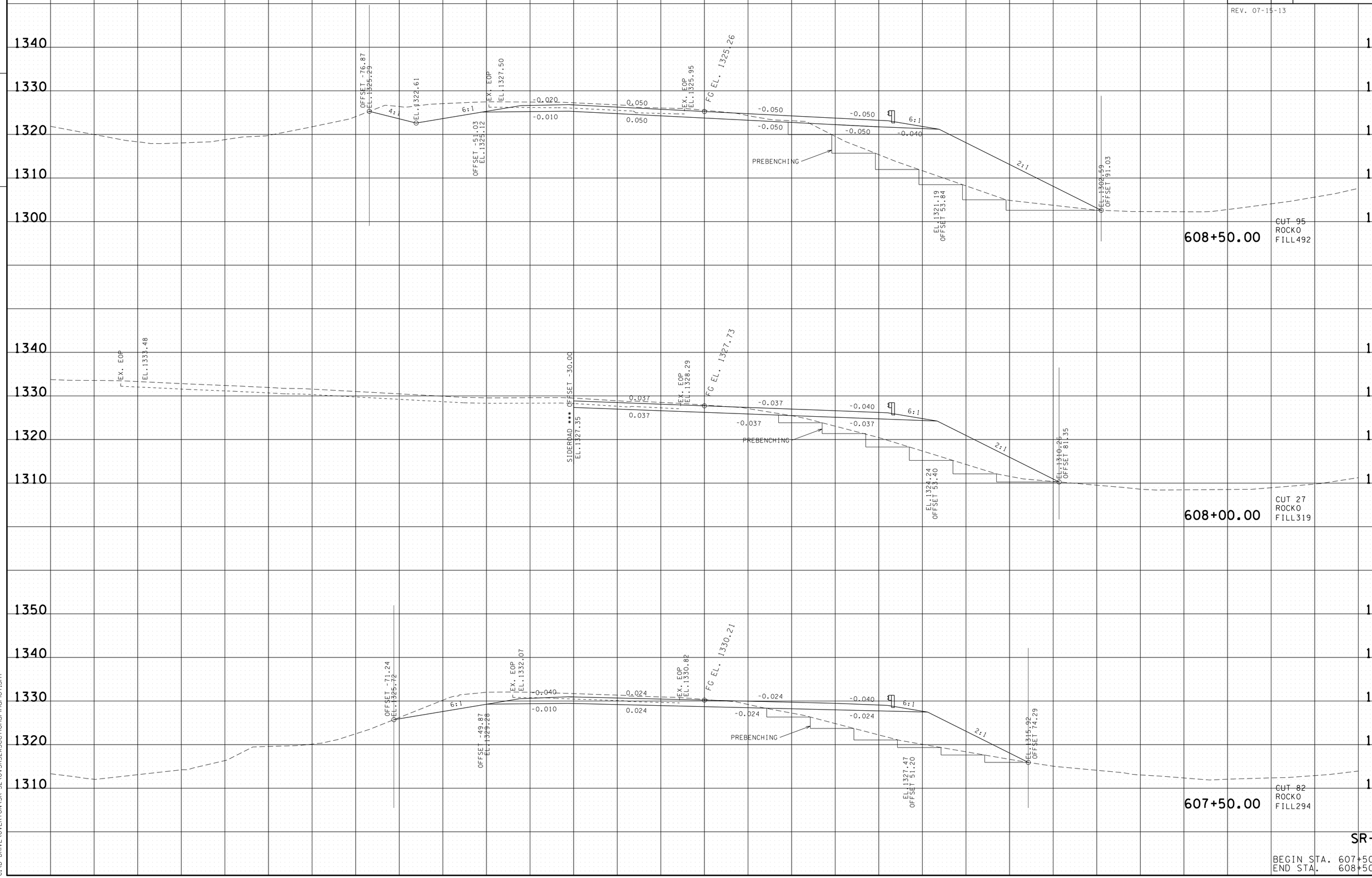
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	102
CONST.	2014	APD/NH-52(48)	109

REV. 07-15-13

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



SR-52

BEGIN STA. 607+50.00
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22-JAN-2015 07:53
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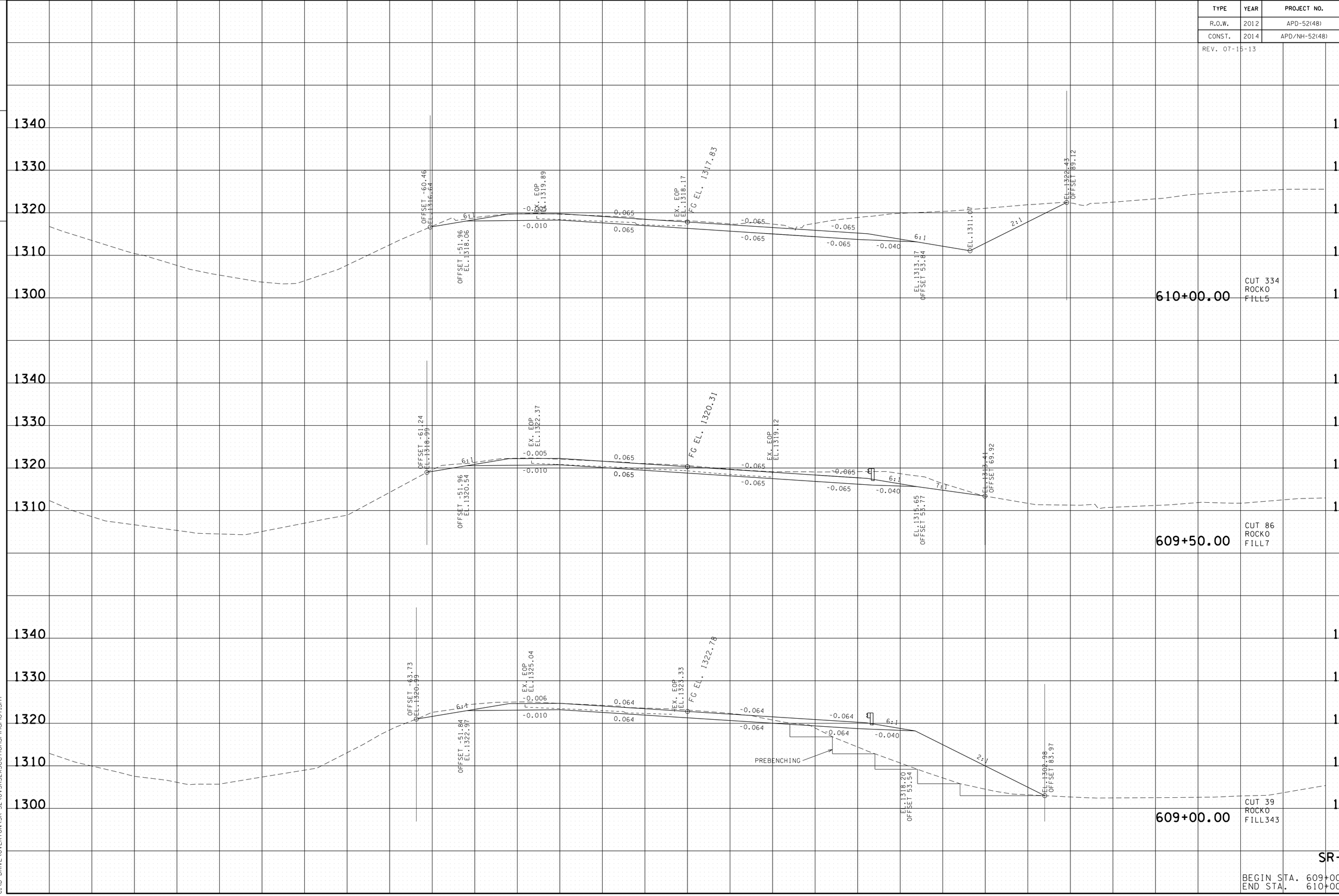
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	103
CONST.	2014	APD/NH-52(48)	110

REV. 07-15-13

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



SR-52

BEGIN STA. 609+00.00
END STA. 610+00.00

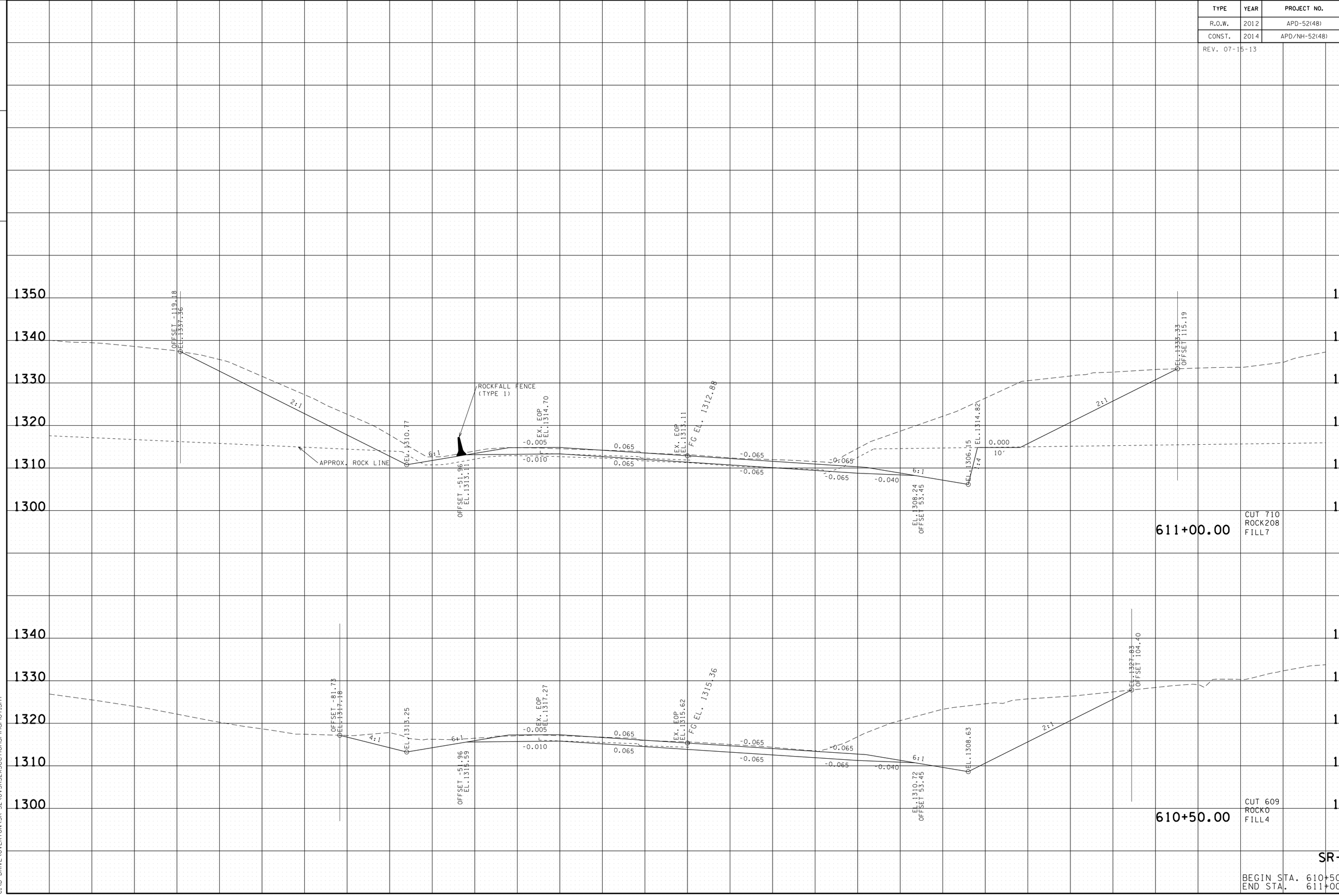
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	104
CONST.	2014	APD/NH-52(48)	111

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-52

BEGIN STA. 610+50.00
END STA. 611+00.00

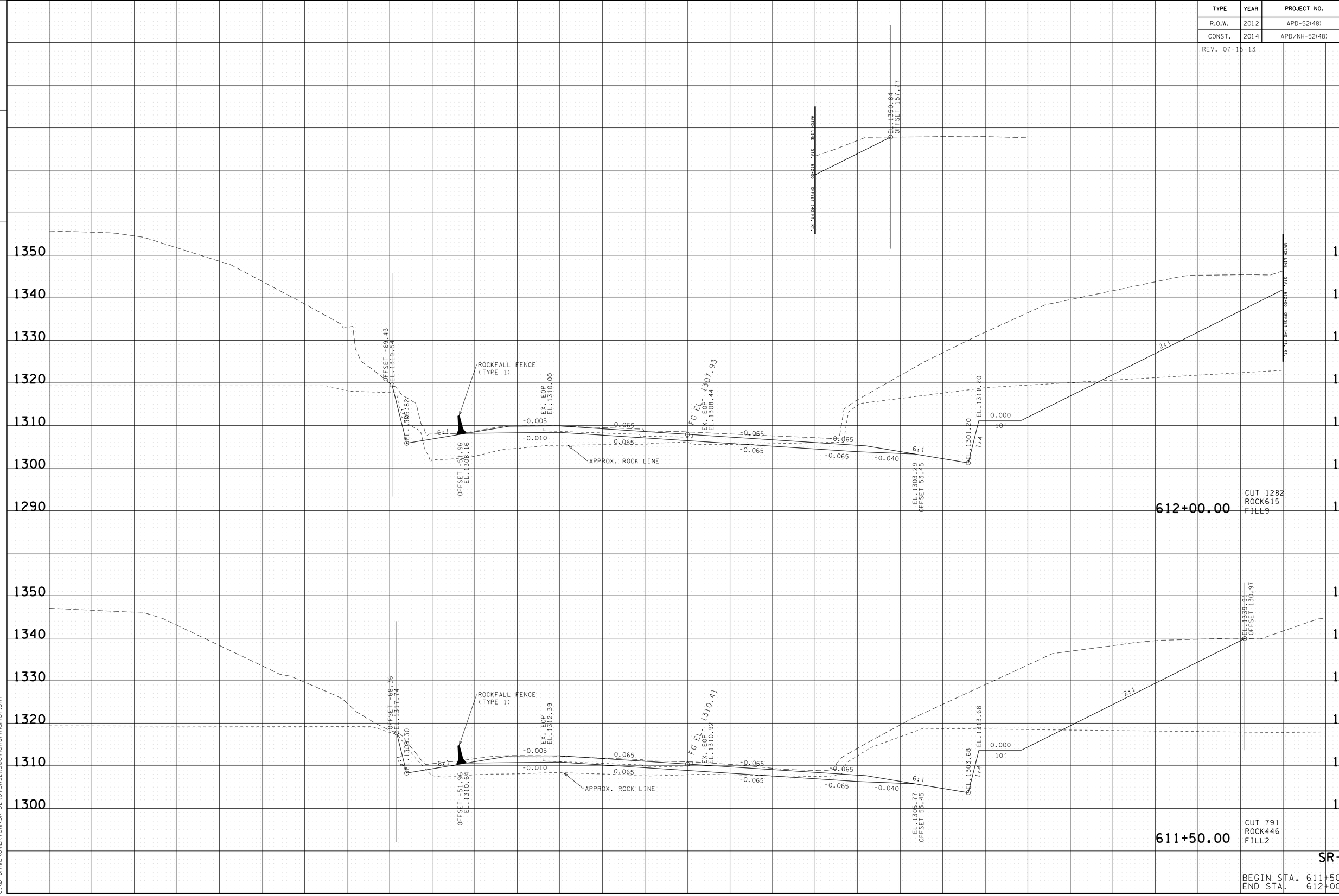
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	105
CONST.	2014	APD/NH-52(48)	112

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

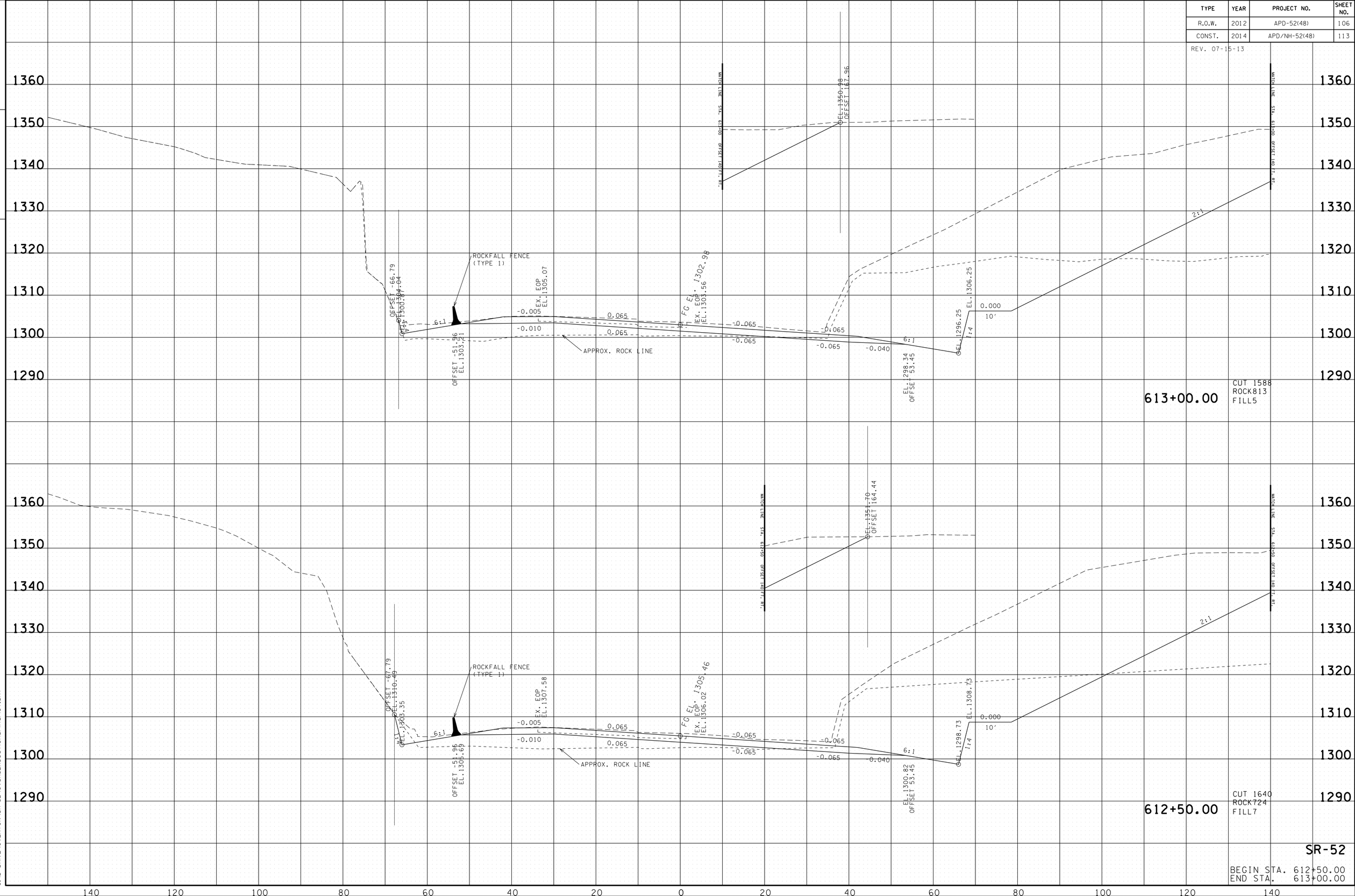


22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	106
CONST.	2014	APD/NH-52(48)	113

REV. 07-15-13

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



SR-52

BEGIN STA. 612+50.00
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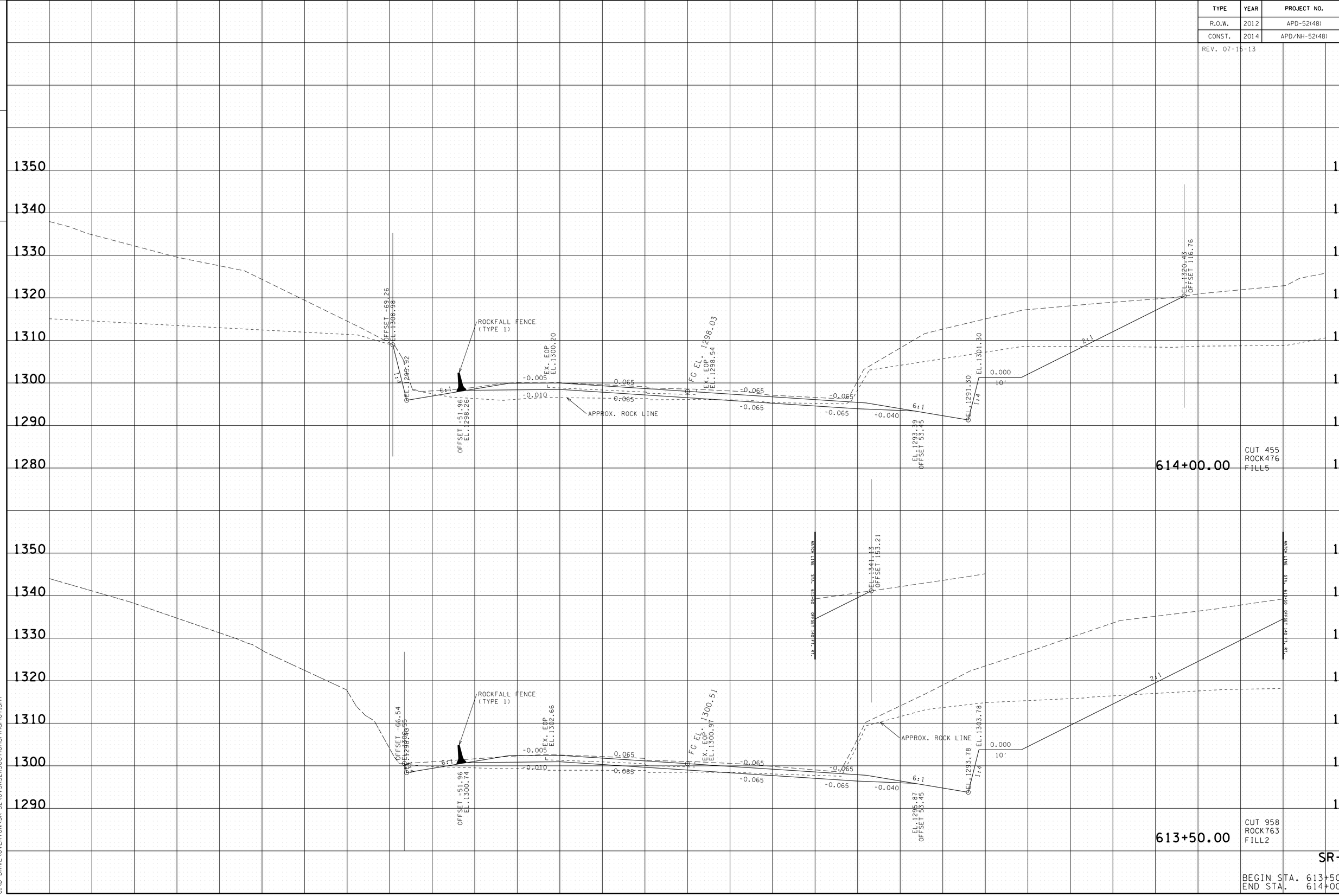
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	107
CONST.	2014	APD/NH-52(48)	114

REV. 07-15-13

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



SR-52

BEGIN STA. 613+50.00
END STA. 614+00.00

22-JAN-2015 07:53
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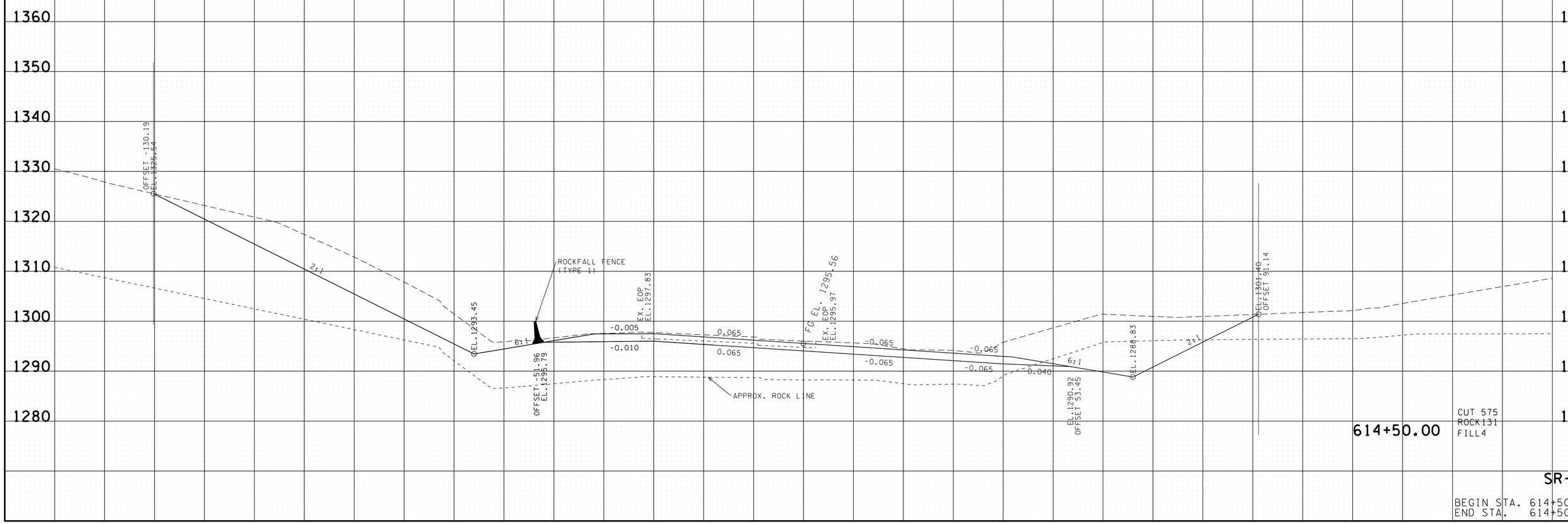
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	108
CONST.	2014	APD/NH-52(48)	115

REV. 07-15-13



614+50.00

CUT 575
~~ROCK131~~
FILL4

SR-52

BEGIN STA. 614+50.00
END STA. 614+50.00

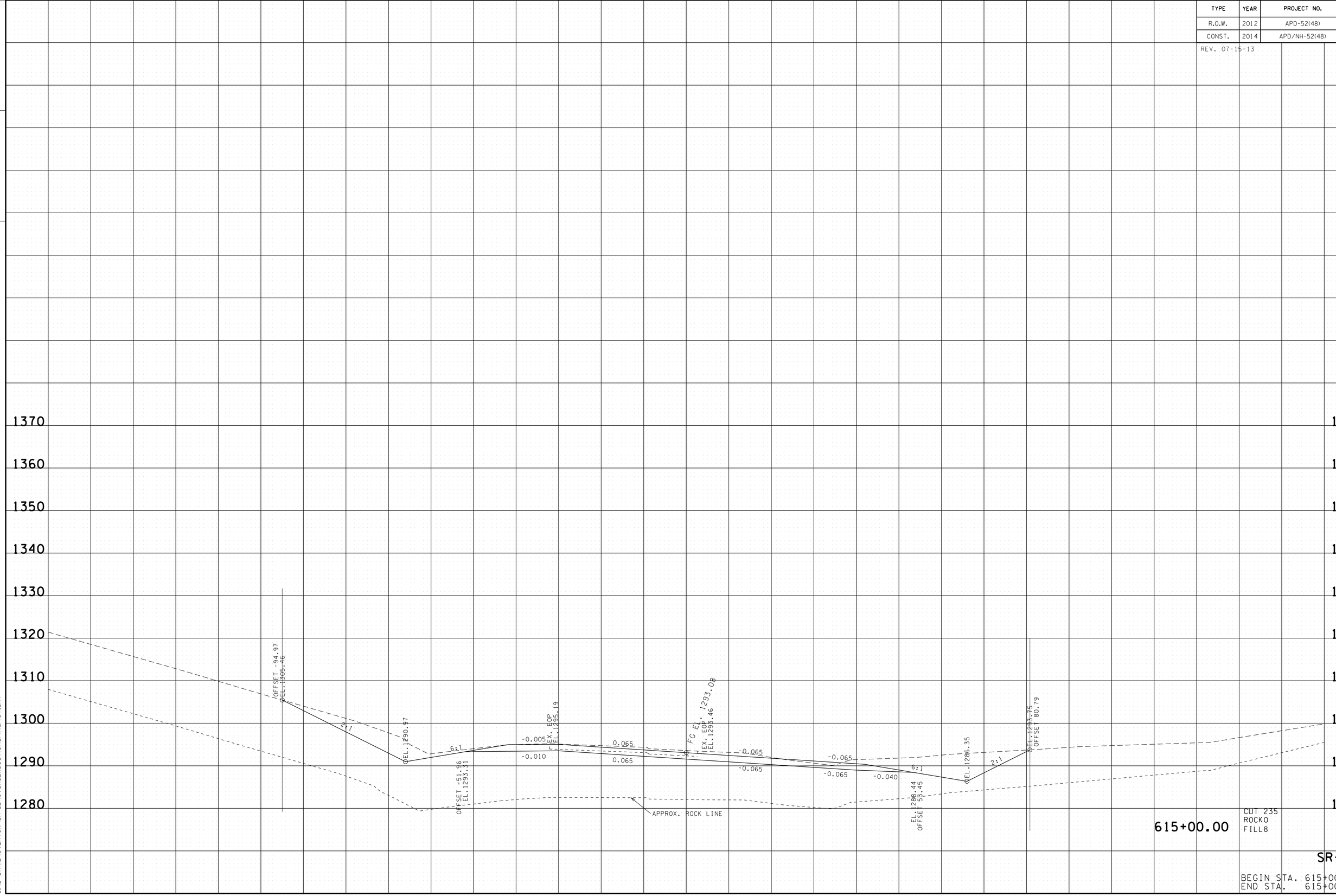
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	109
CONST.	2014	APD/NH-52(48)	116

REV. 07-15-13



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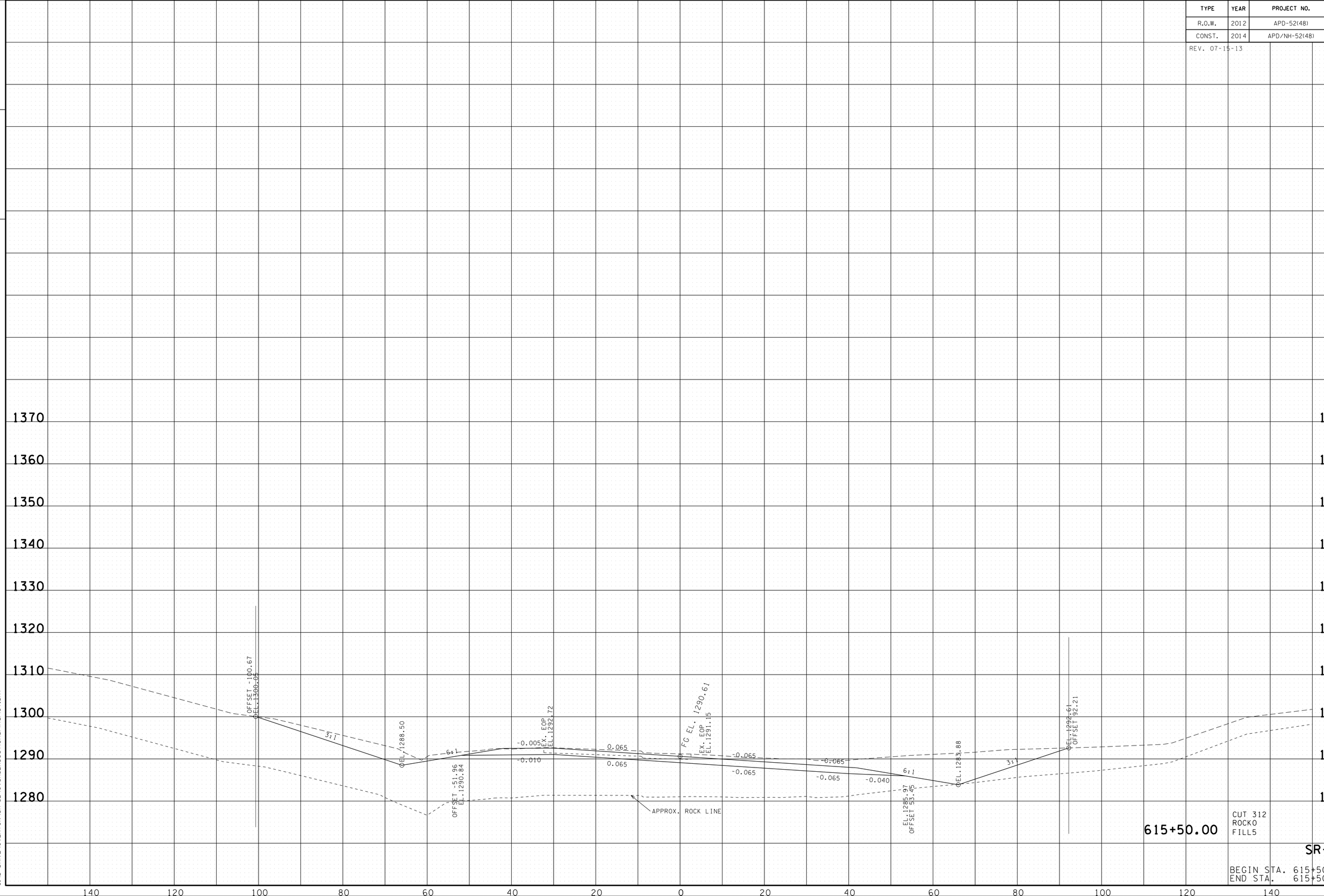
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	110
CONST.	2014	APD/NH-52(48)	117

REV. 07-15-13



615+50.00

CUT 312
ROCKO
FILL5

SR-52

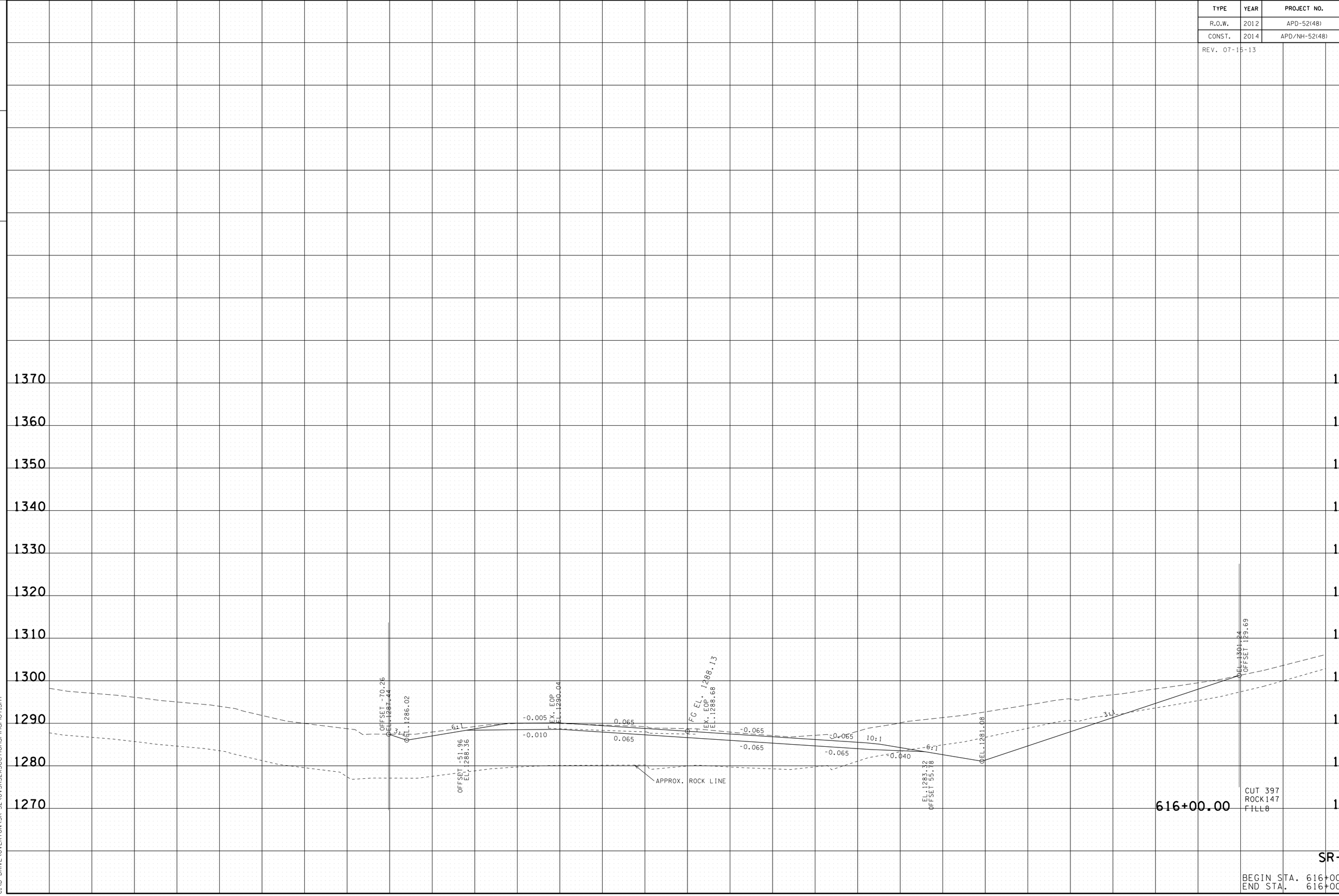
BEGIN STA. 615+50.00
END STA. 615+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	111
CONST.	2014	APD/NH-52(48)	118

REV. 07-15-13

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



SR-52

BEGIN STA. 616+00.00
END STA. 616+00.00

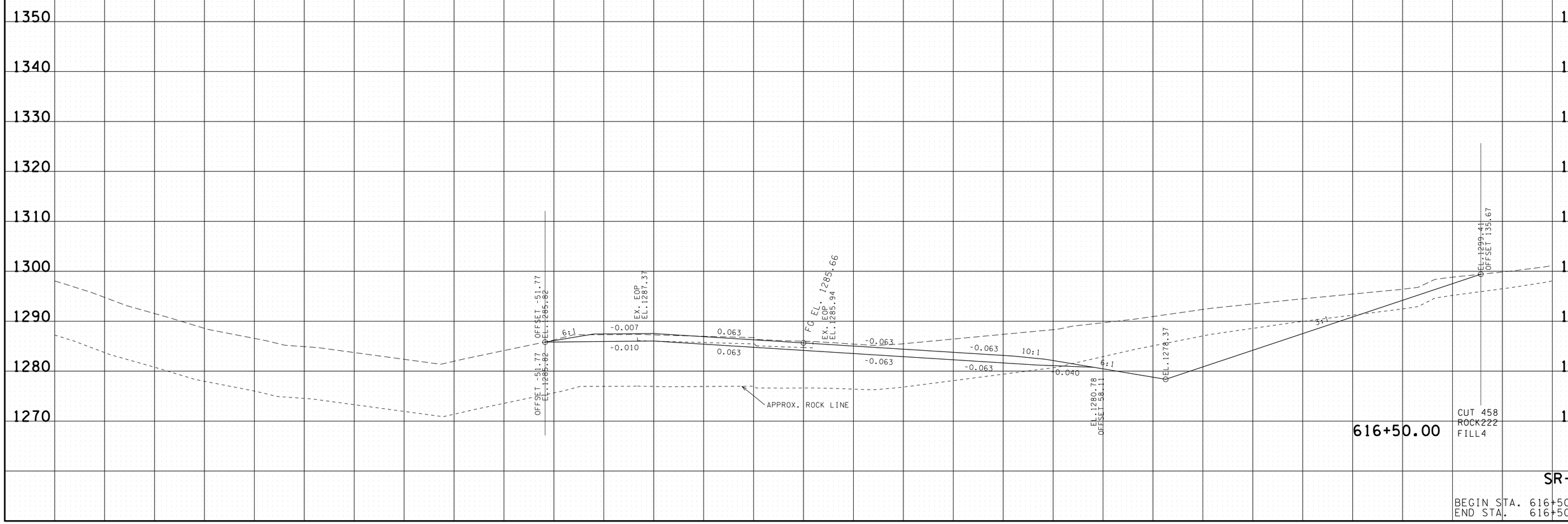
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	112
CONST.	2014	APD/NH-52(48)	119

REV. 07-15-13



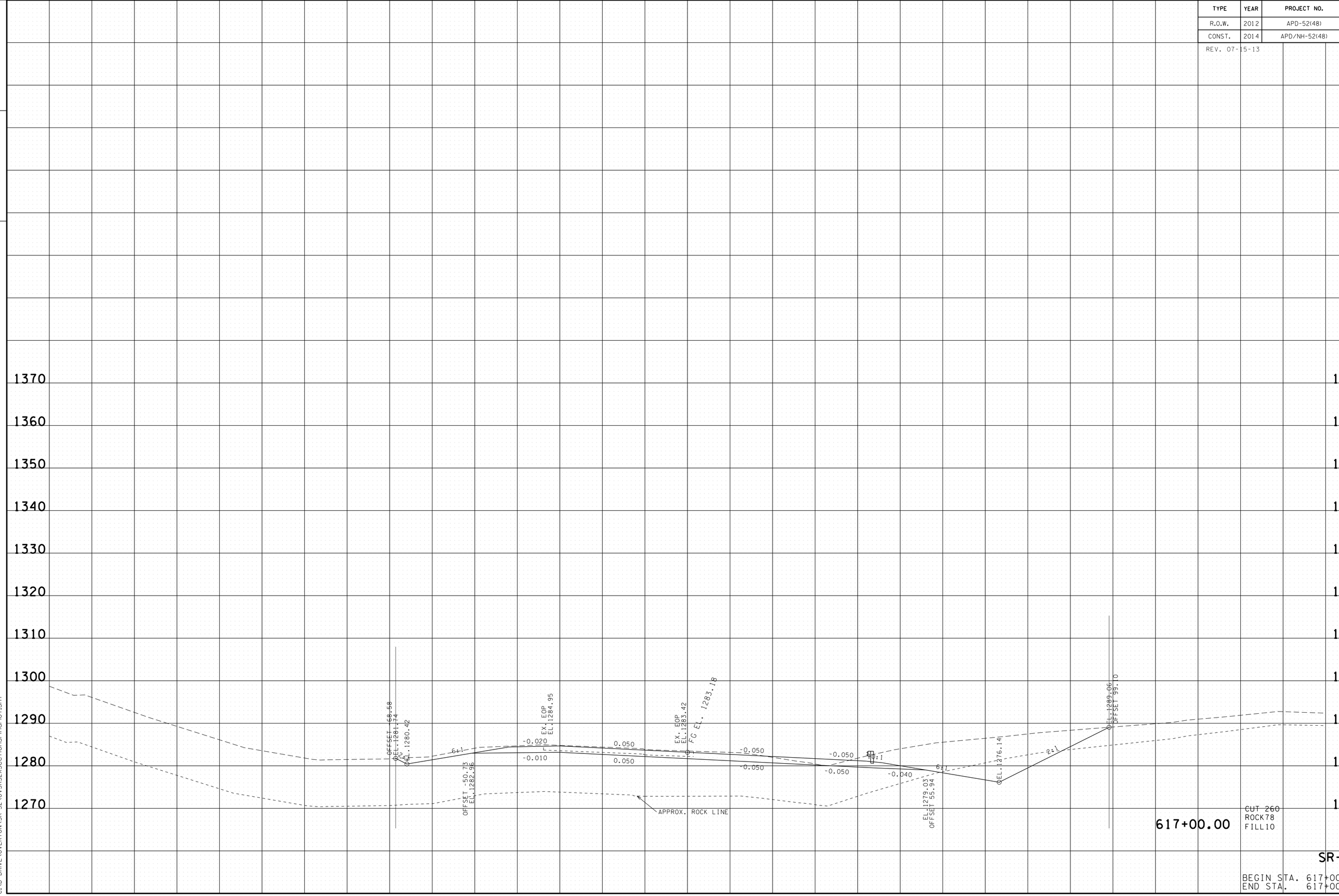
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	113
CONST.	2014	APD/NH-52(48)	120

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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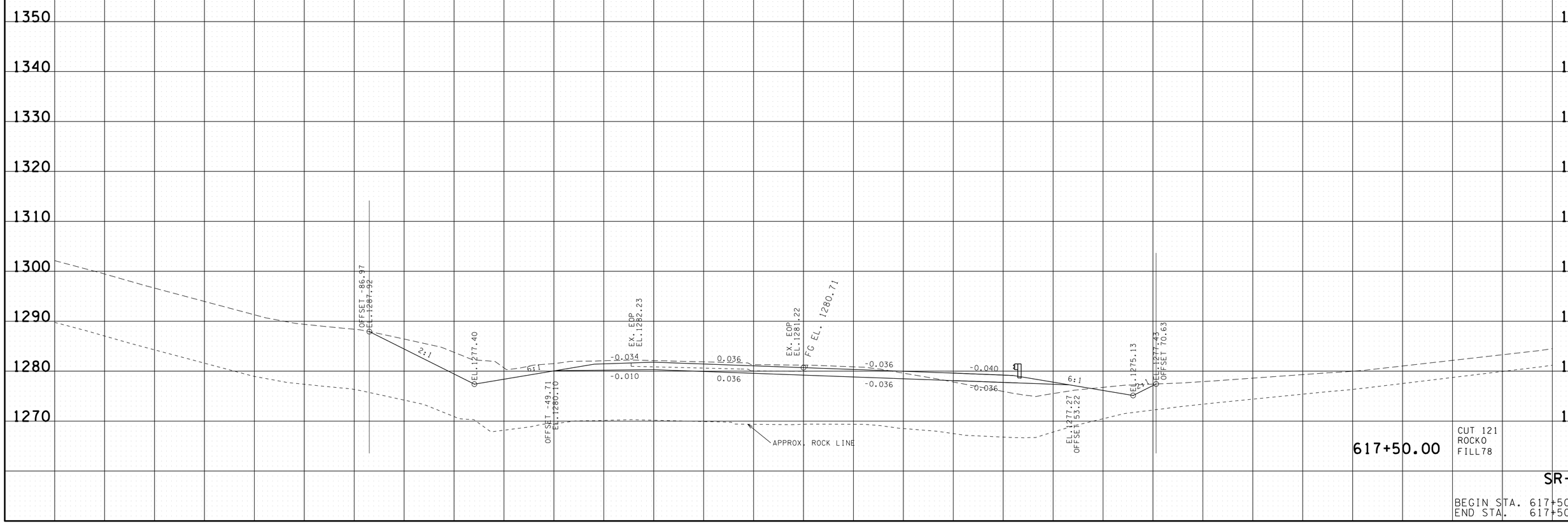
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	114
CONST.	2014	APD/NH-52(48)	121

REV. 07-15-13



617+50.00

CUT 121
ROCKO
FILL78

SR-52

BEGIN STA. 617+50.00
END STA. 617+50.00

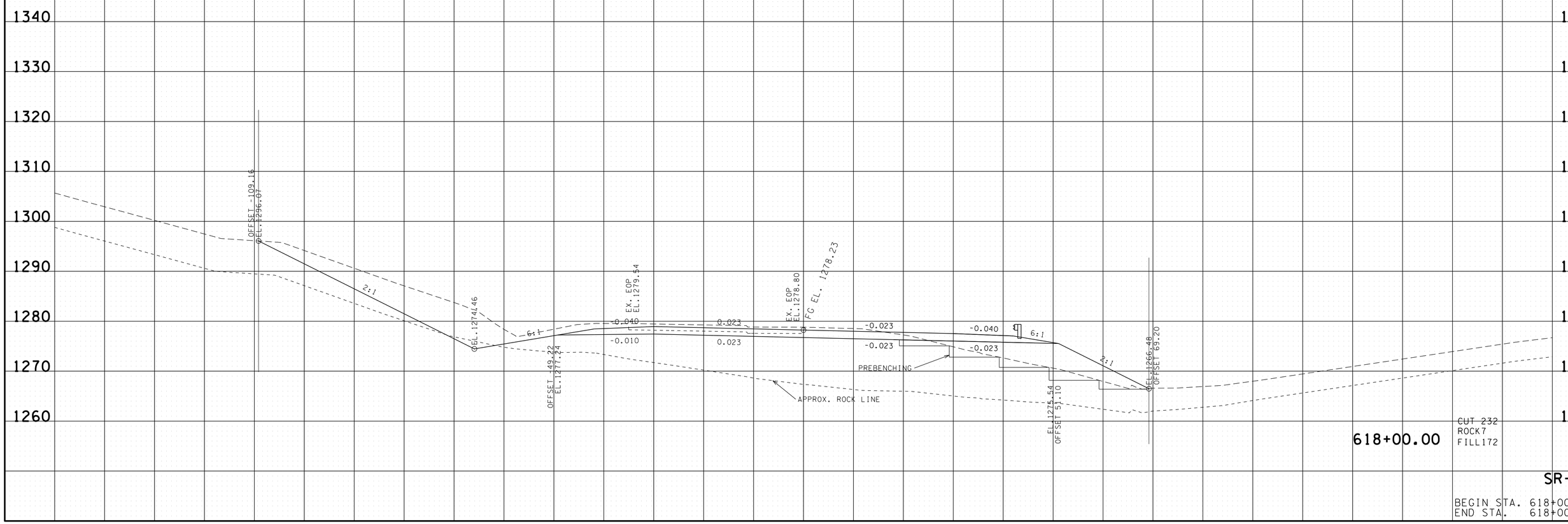
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	115
CONST.	2014	APD/NH-52(48)	122

REV. 07-15-13



618+00.00

CUT 232
ROCK7
FILL172

SR-52

BEGIN STA. 618+00.00
END STA. 618+00.00

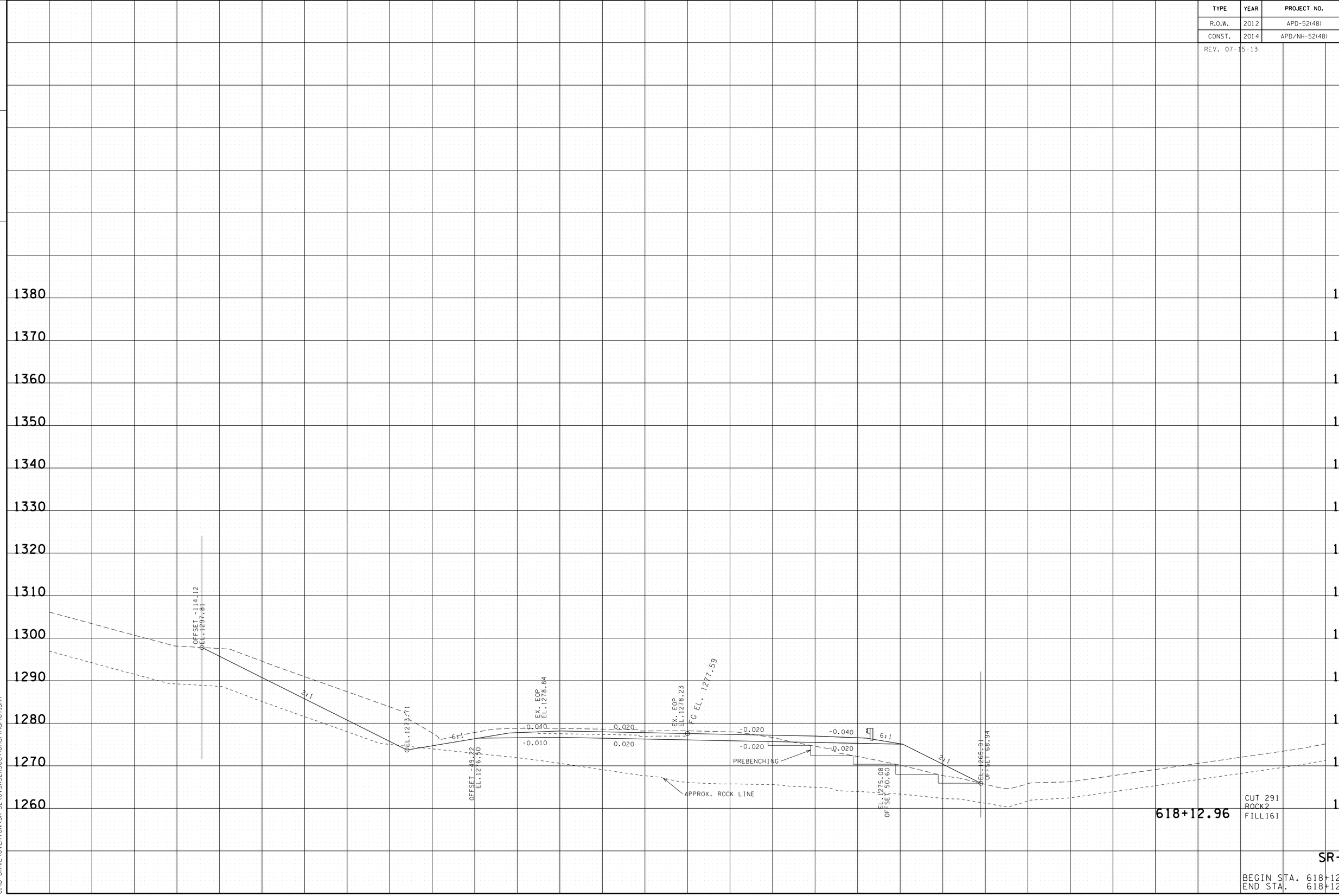
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	116
CONST.	2014	APD/NH-52(48)	123

REV. 07-15-13



618+12.96

CUT 291
ROCK2
FILL161

SR-52

BEGIN STA. 618+12.96
END STA. 618+12.96

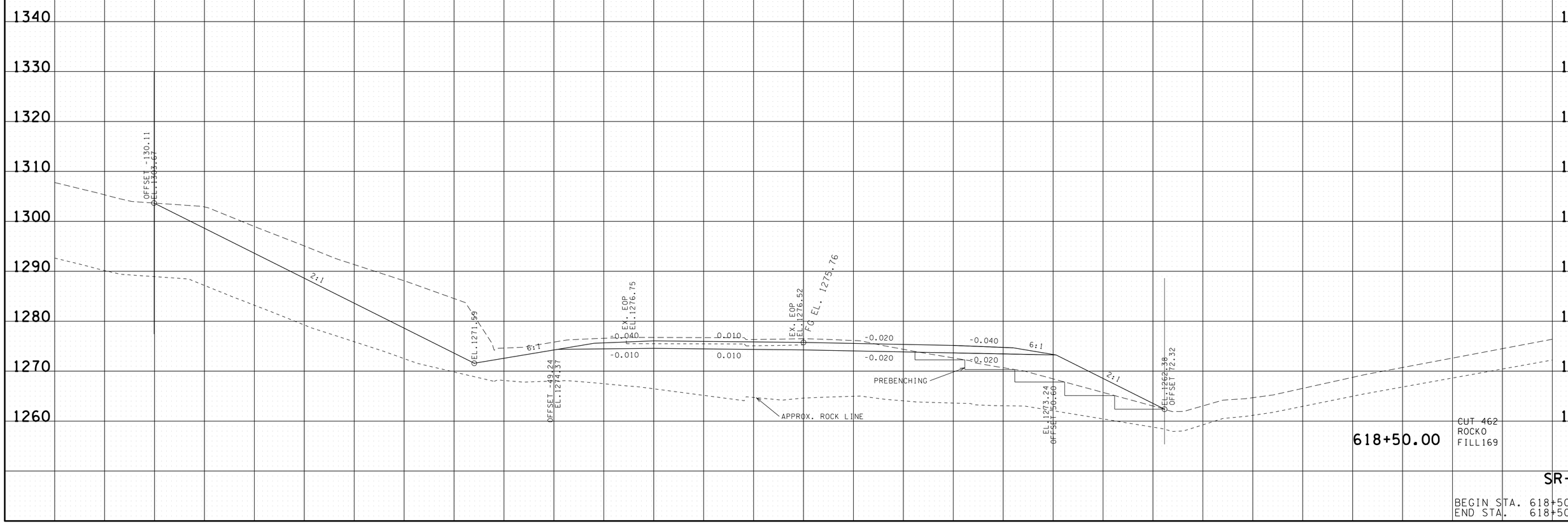
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	117
CONST.	2014	APD/NH-52(48)	124

REV. 07-15-13



618+50.00

CUT 462
ROCKO
FILL169

SR-52

BEGIN STA. 618+50.00
END STA. 618+50.00

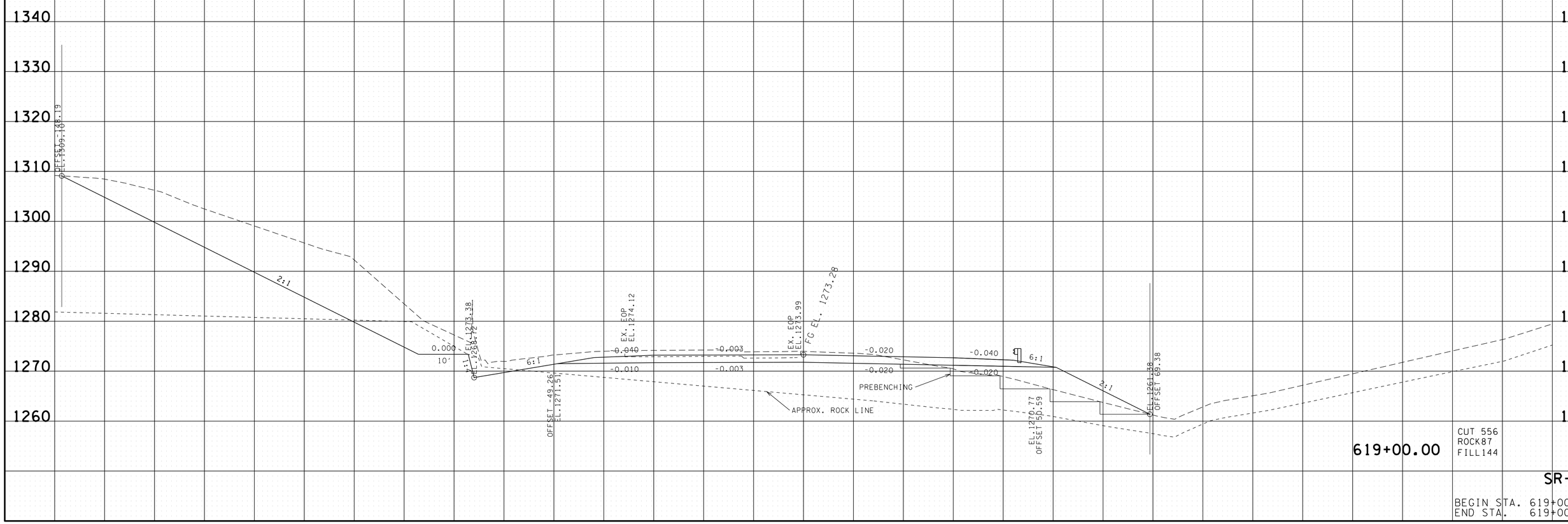
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	118
CONST.	2014	APD/NH-52(48)	125

REV. 07-15-13



619+00.00

CUT 556
ROCK87
FILL144

SR-52

BEGIN STA. 619+00.00
END STA. 619+00.00

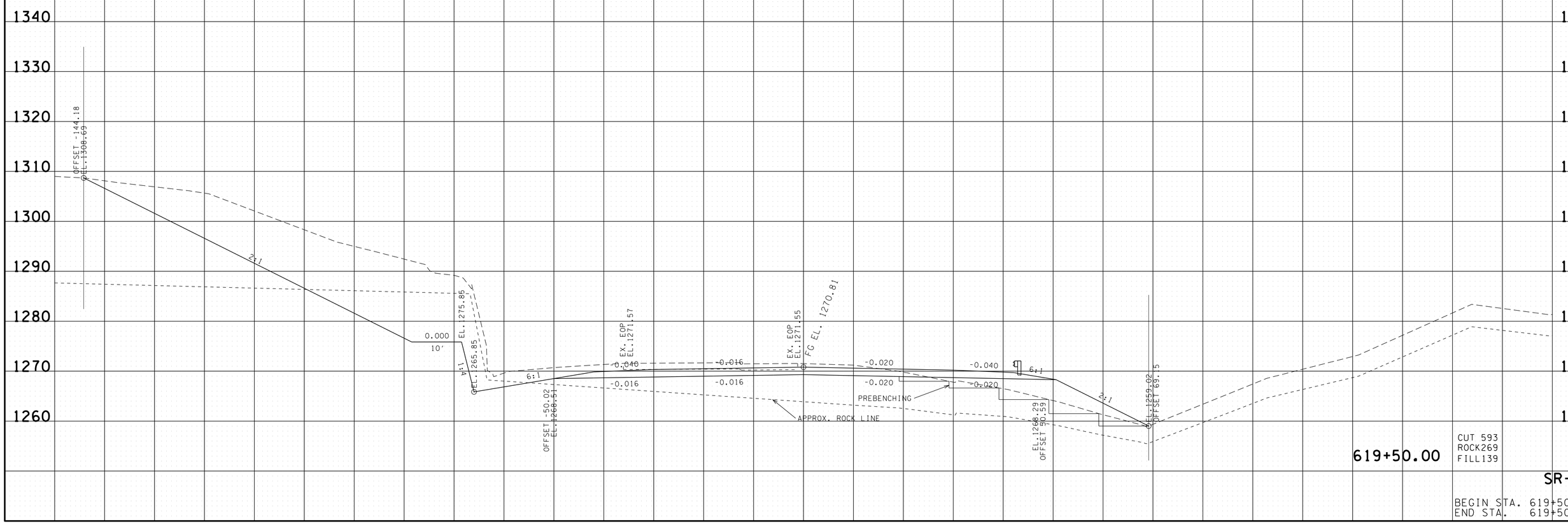
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	119
CONST.	2014	APD/NH-52(48)	126

REV. 07-15-13



619+50.00

CUT 593
ROCK269
FILL139

SR-52

BEGIN STA. 619+50.00
END STA. 619+50.00

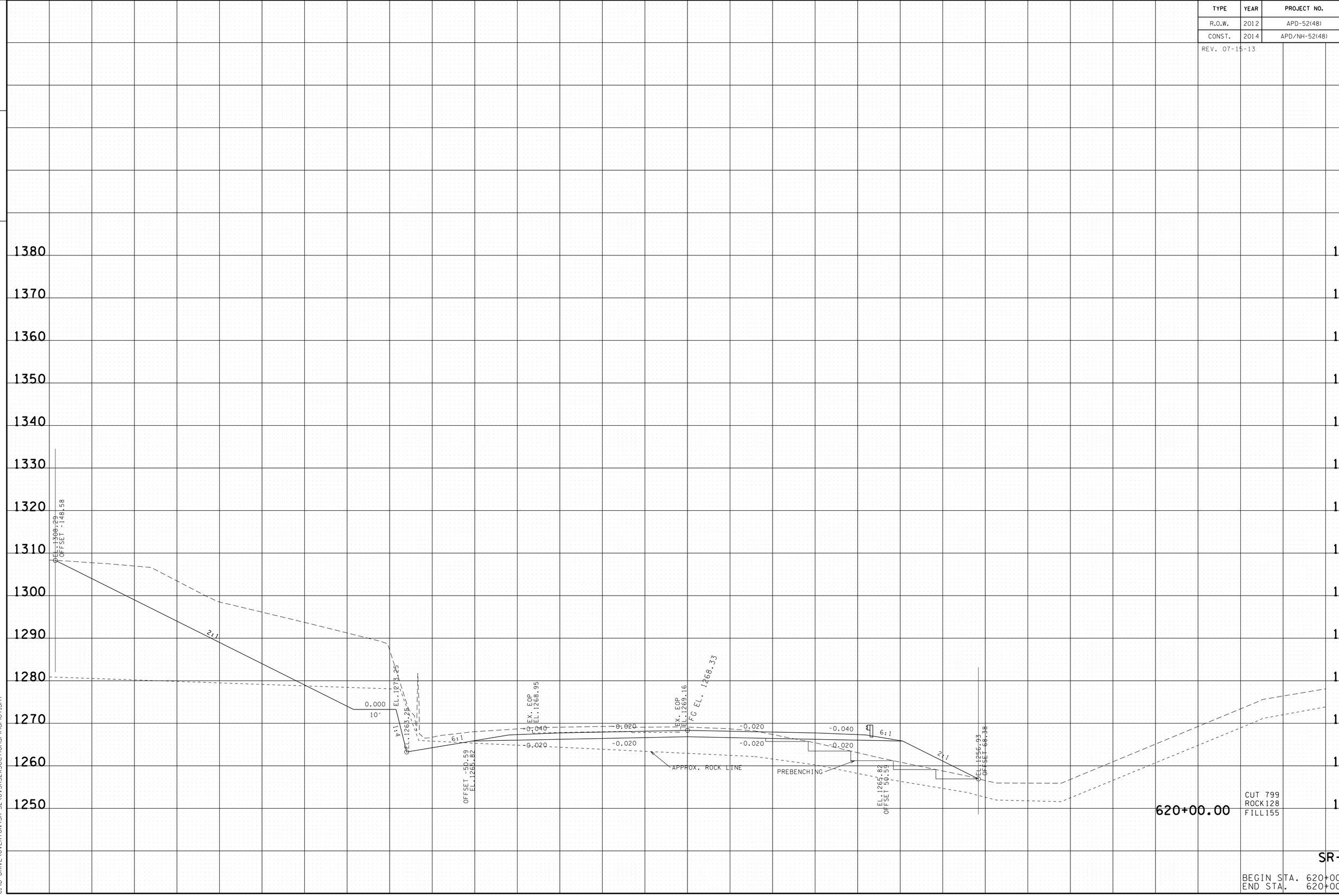
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	120
CONST.	2014	APD/NH-52(48)	127

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



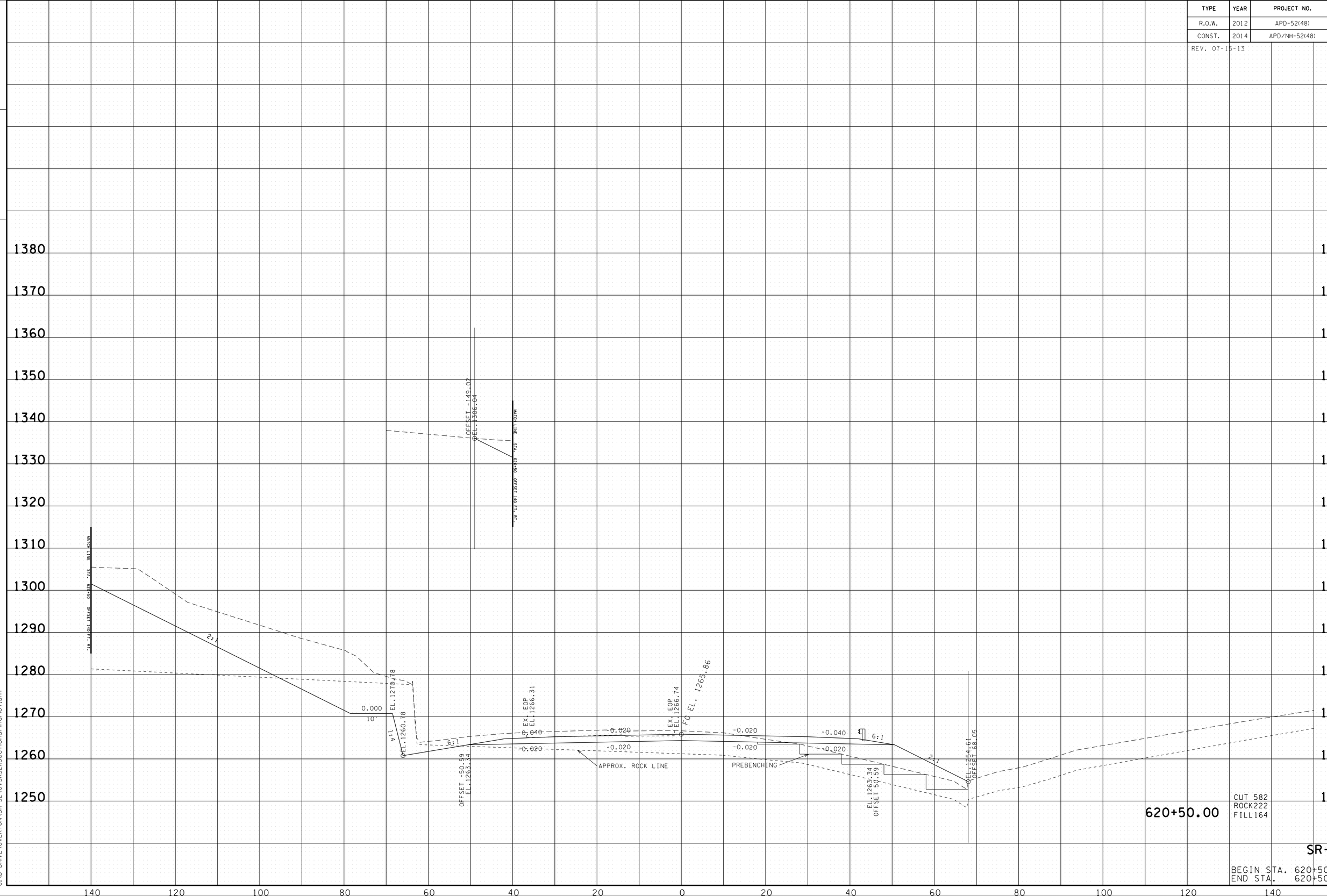
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	121
CONST.	2014	APD/NH-52(48)	128

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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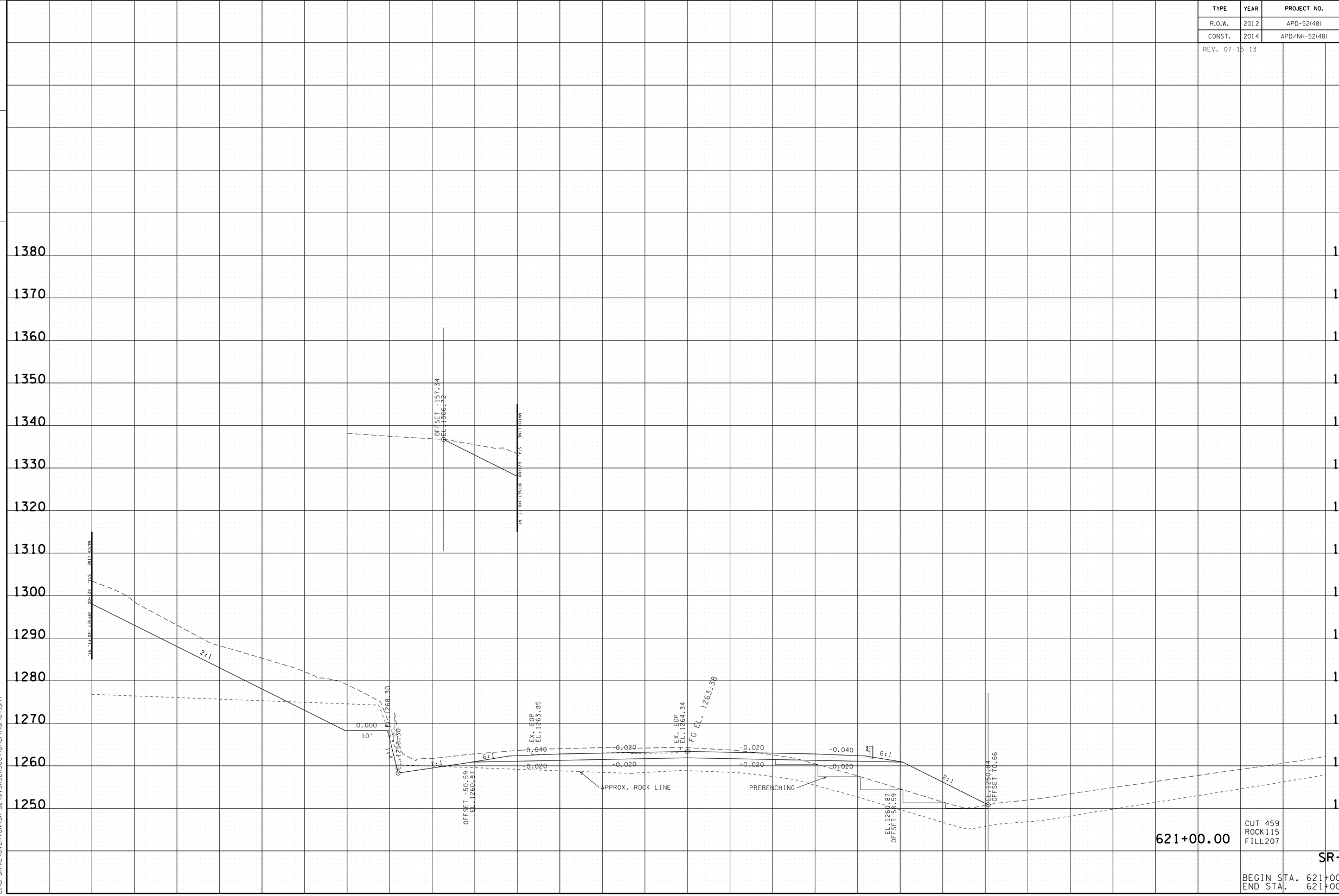
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	122
CONST.	2014	APD/NH-52(48)	129

REV. 07-15-13



621+00.00

CUT 459
ROCK115
FILL207

SR-52

BEGIN STA. 621+00.00
END STA. 621+00.00

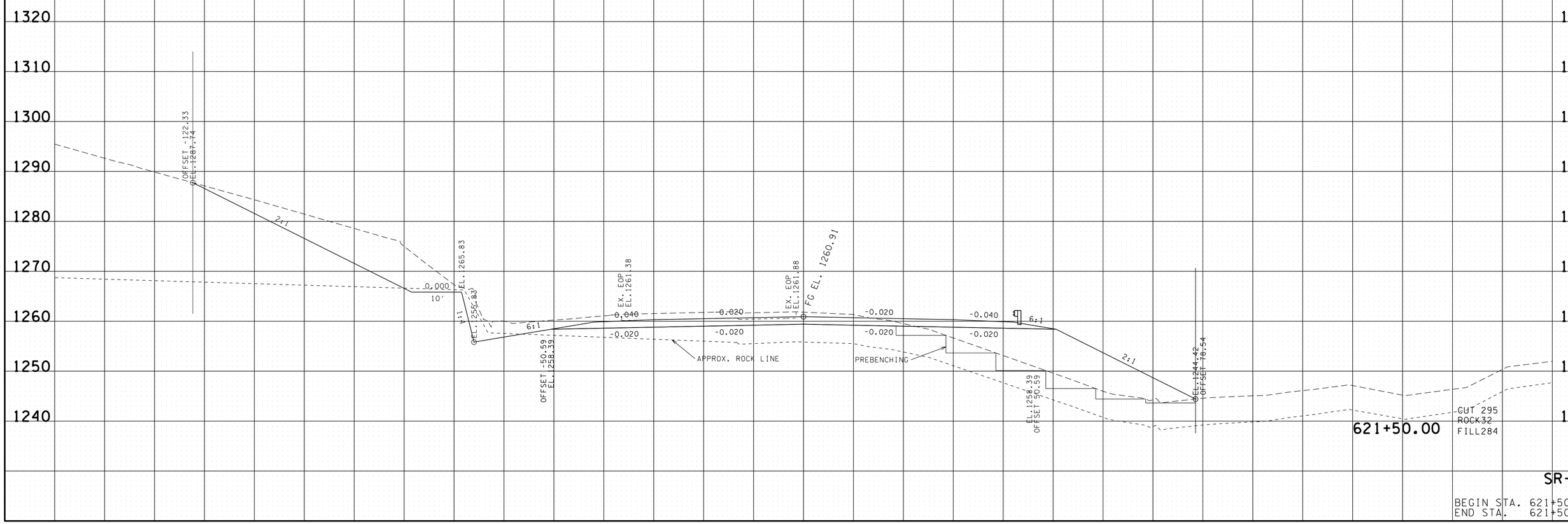
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	123
CONST.	2014	APD/NH-52(48)	130

REV. 07-15-13



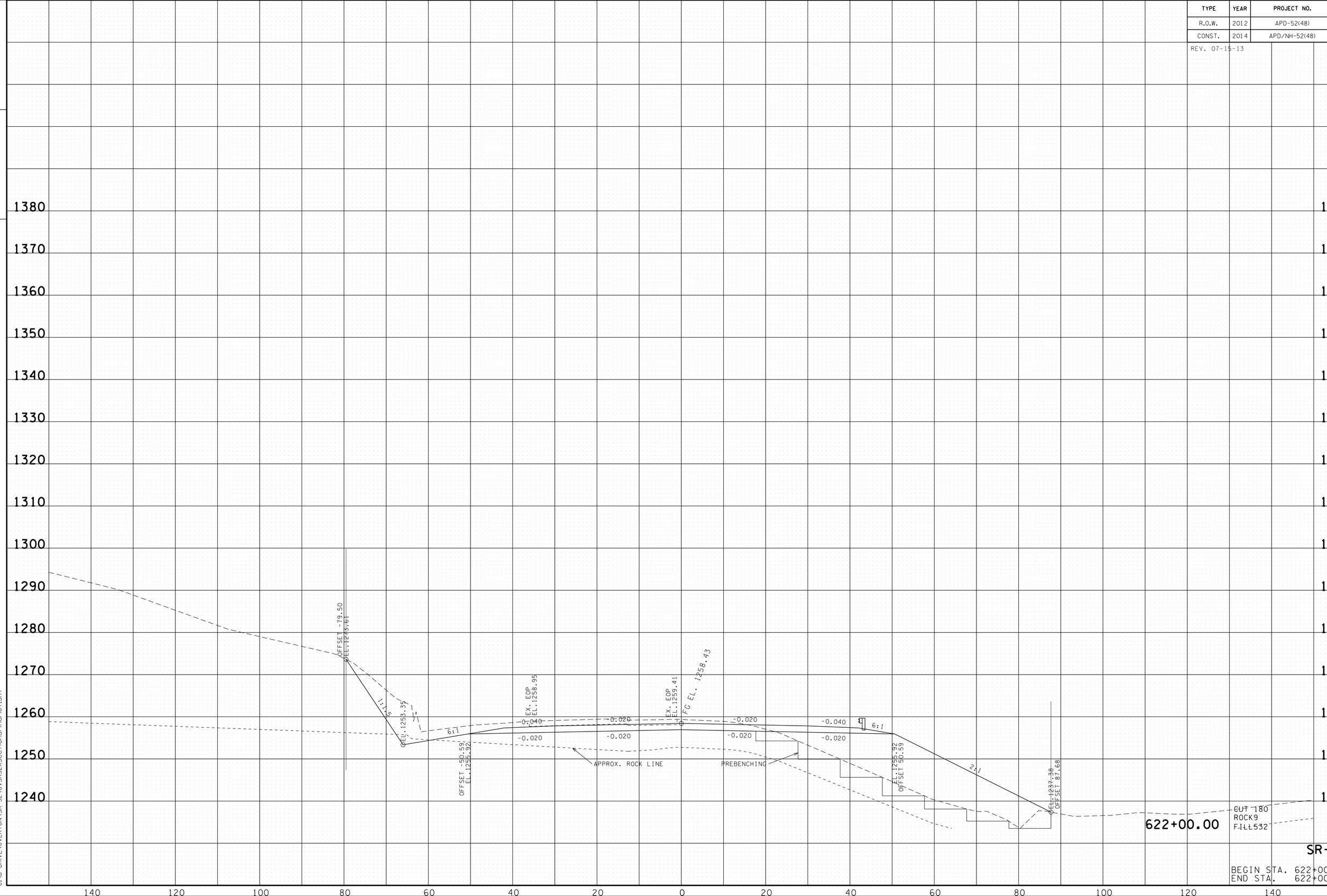
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	124
CONST.	2014	APD/NH-52(48)	131

REV. 07-15-13



SR-52

BEGIN STA. 622+00.00
END STA. 622+00.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	125
CONST.	2014	APD/NH-52(48)	132

REV. 07-15-13

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

1380
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230

OFFSET -82.21
EL. 1271.87
1:1.25
EL. 1250.48
6:1
EX. EOP
EL. 1256.51
-0.040
-0.020
-0.020
EX. EOP
EL. 1256.97
FG EL. 1255.96
-0.020
-0.020
-0.040
6:1
OFFSET 50.59
EL. 1253.44
APPROX. ROCK LINE
PREBENCHING
EL. 1253.44
OFFSET 50.59
2:1
EL. 1231.78
OFFSET 93.93
622+50.00
CUT 149
ROCK 17
FILL 703

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

SR-52

BEGIN STA. 622+50.00
END STA. 622+50.00

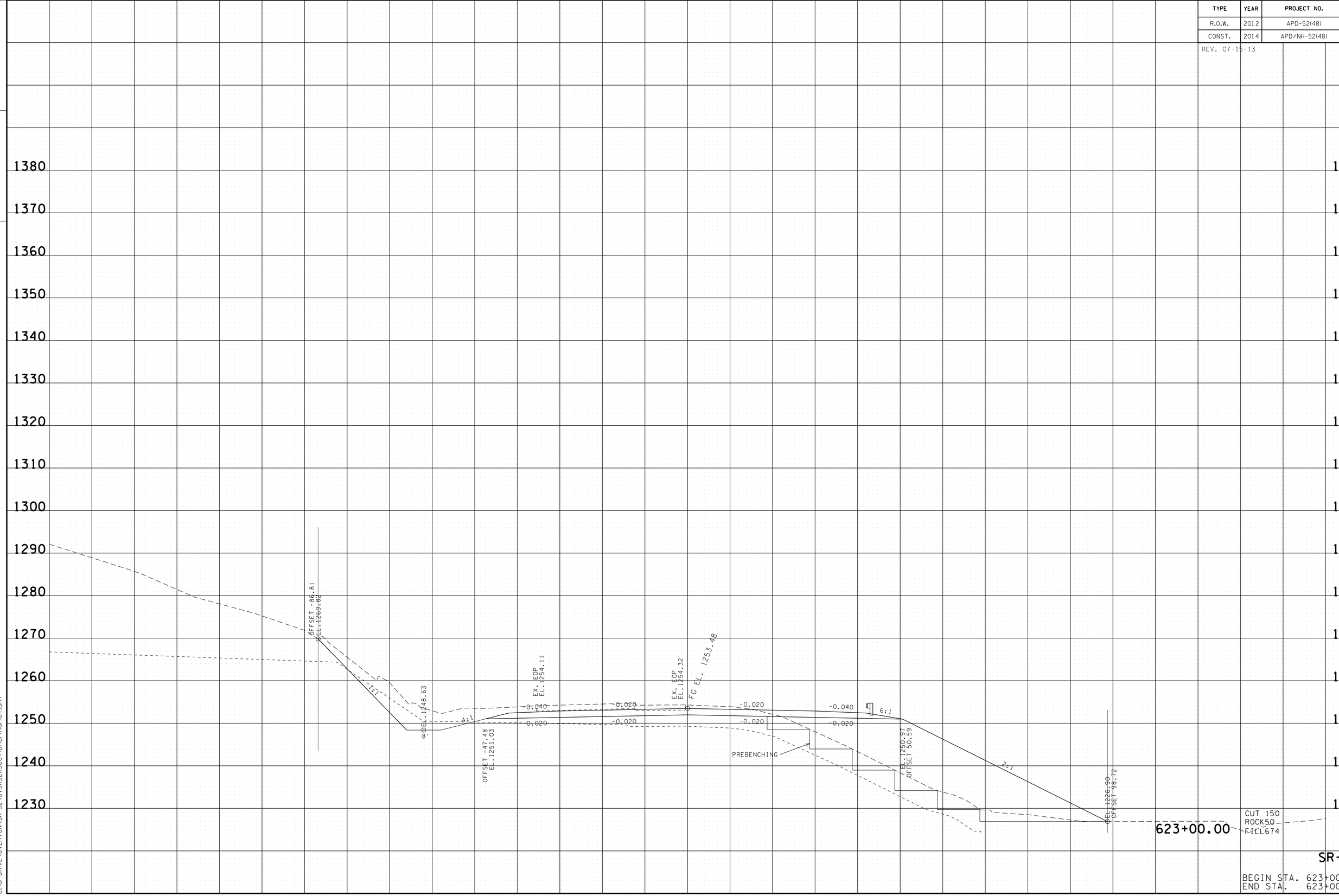
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	126
CONST.	2014	APD/NH-52(48)	133

REV. 07-15-13



SR-52

BEGIN STA. 623+00.00
END STA. 623+00.00

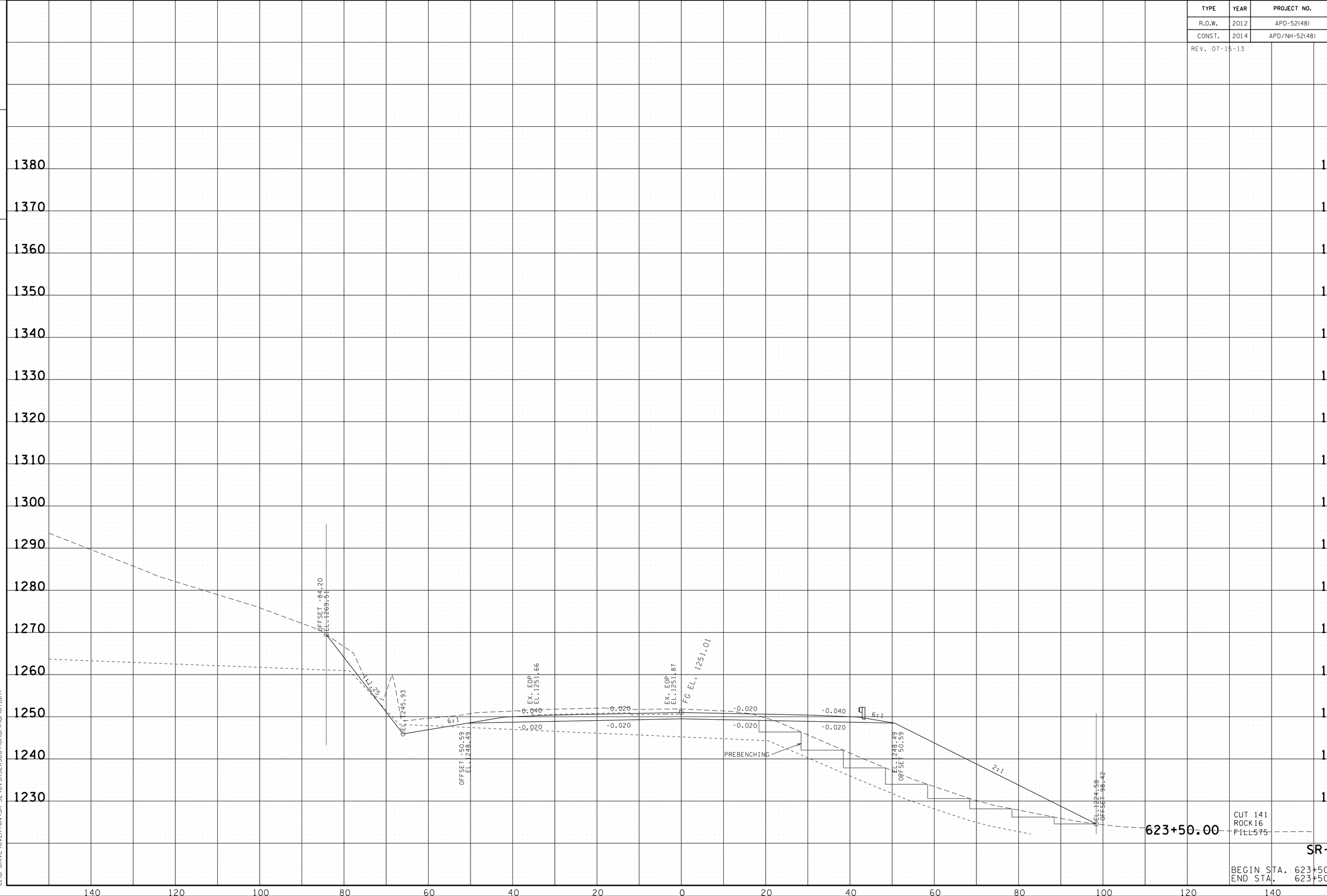
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	127
CONST.	2014	APD/NH-52(48)	134

REV. 07-15-13

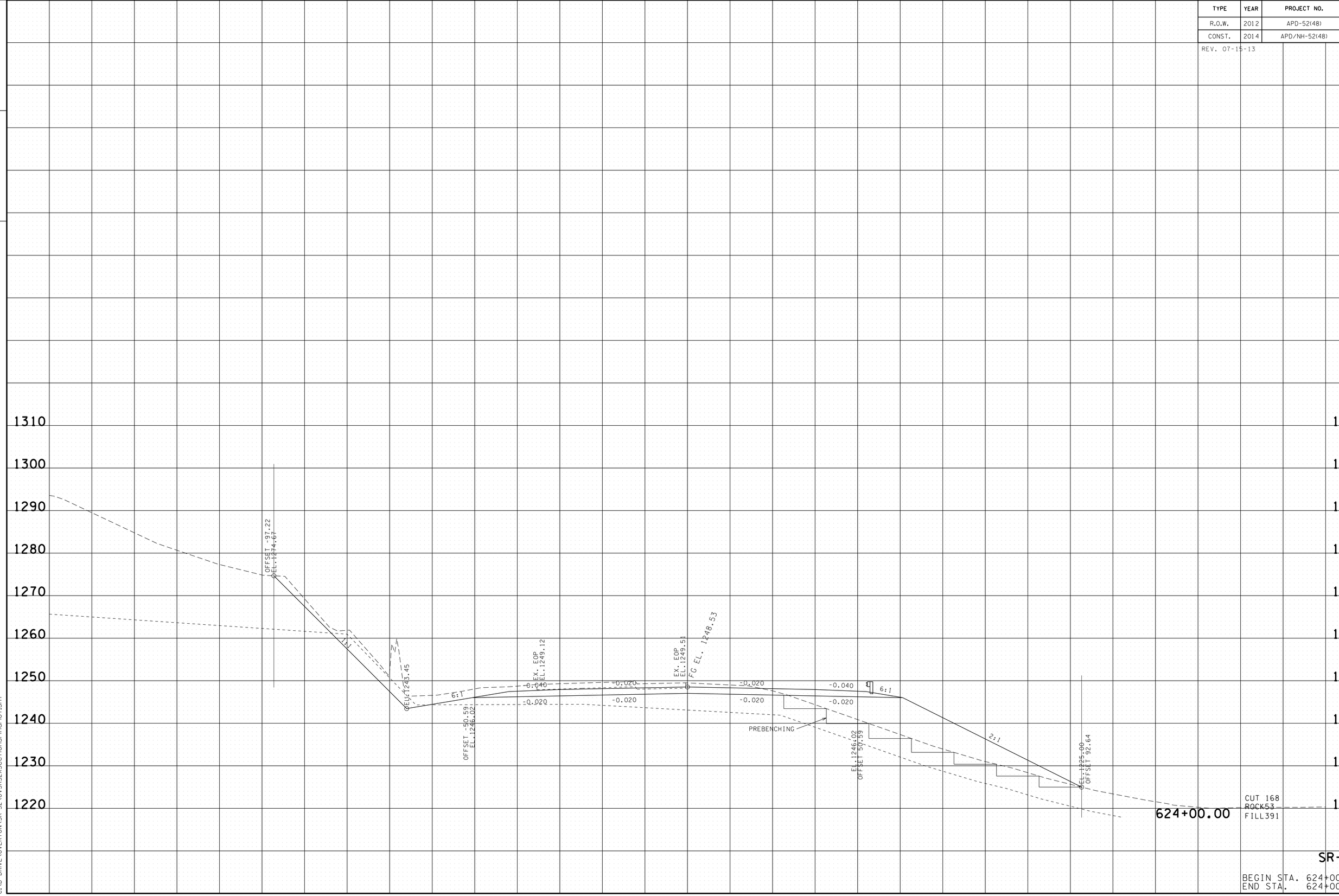


22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	128
CONST.	2014	APD/NH-52(48)	135

REV. 07-15-13

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



SR-52

BEGIN STA. 624+00.00
END STA. 624+00.00

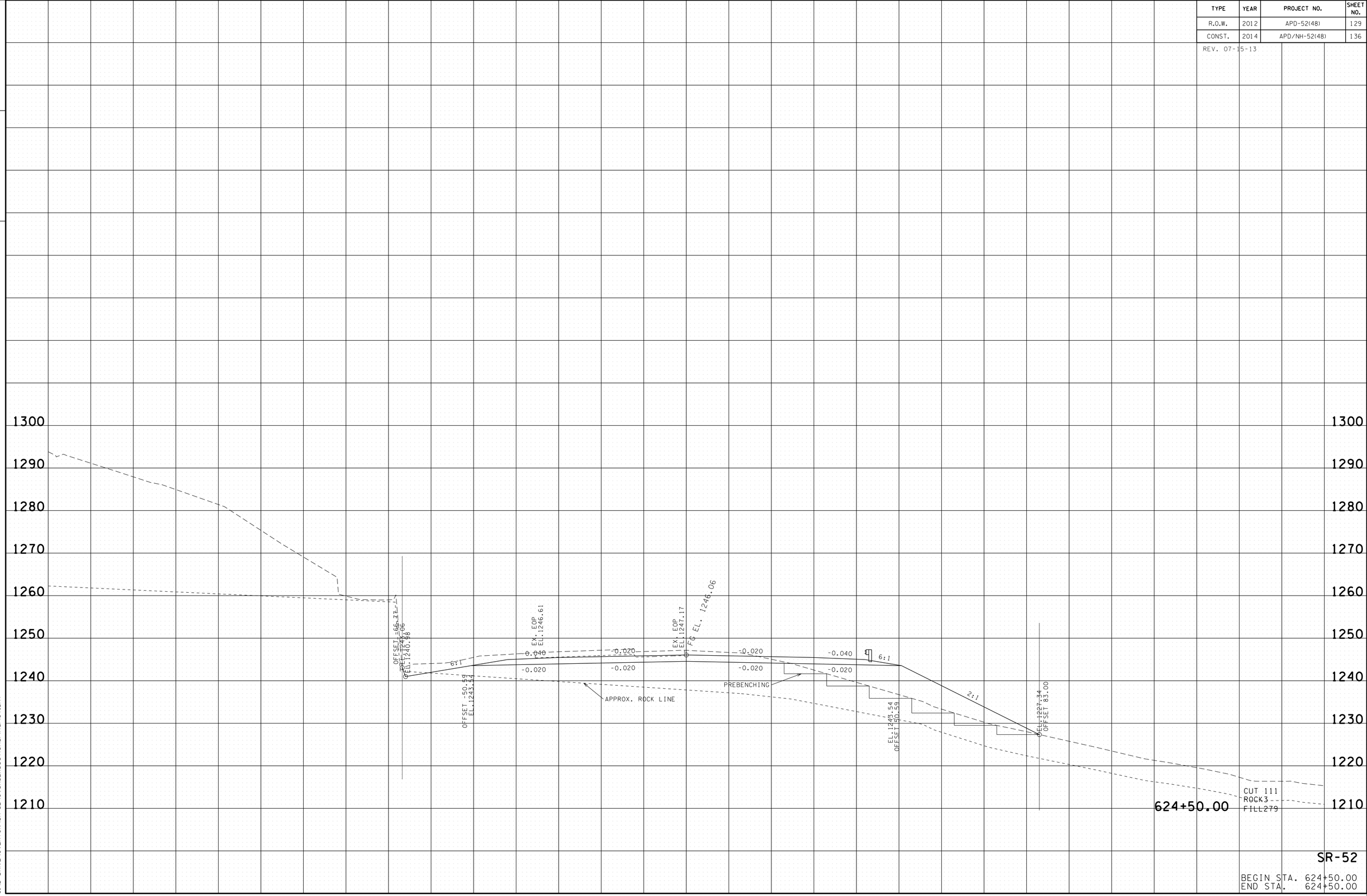
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	129
CONST.	2014	APD/NH-52(48)	136

REV. 07-15-13



SR-52

BEGIN STA. 624+50.00
END STA. 624+50.00

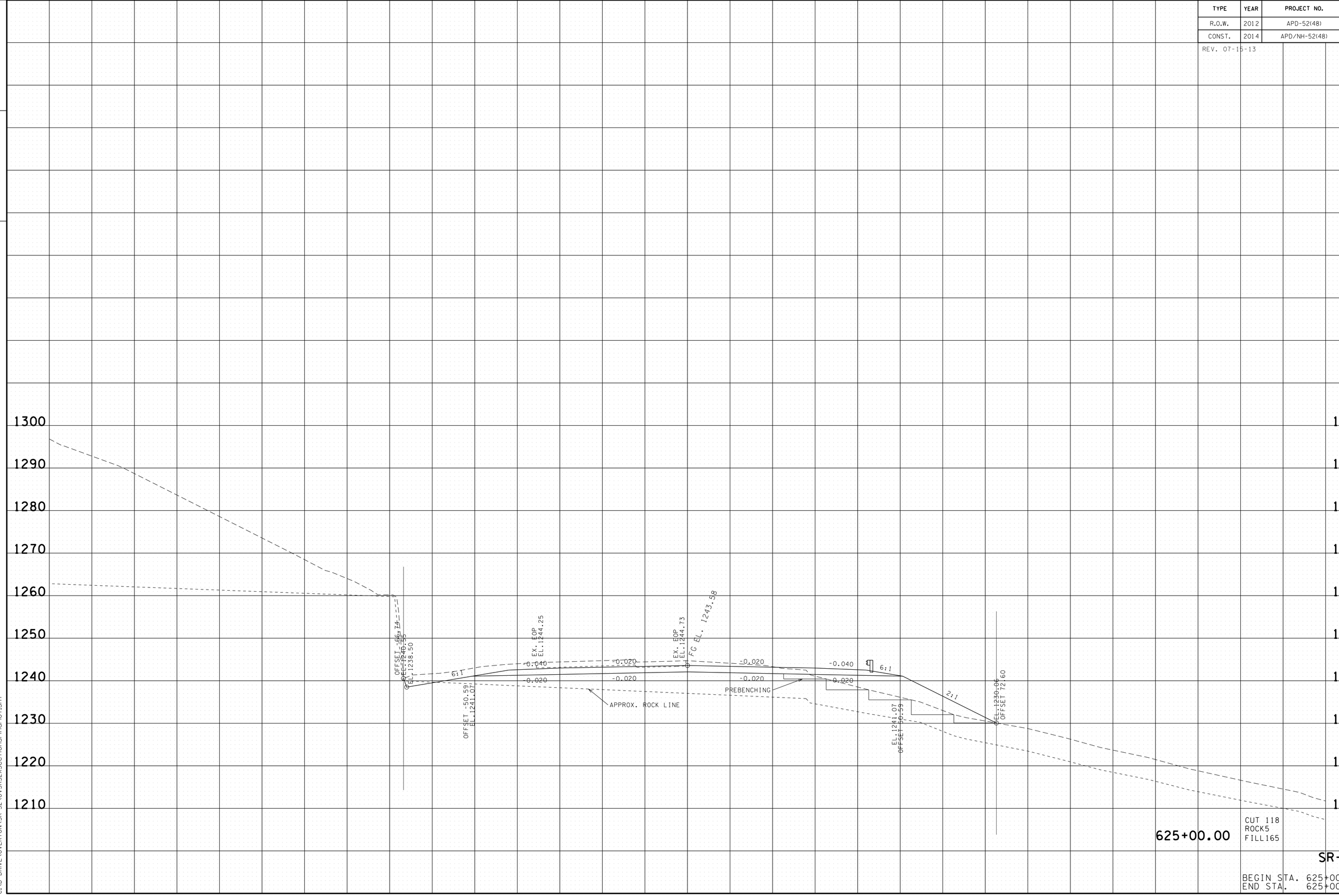
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	130
CONST.	2014	APD/NH-52(48)	137

REV. 07-15-13



625+00.00

CUT 118
ROCK5
FILL165

SR-52

BEGIN STA. 625+00.00
END STA. 625+00.00

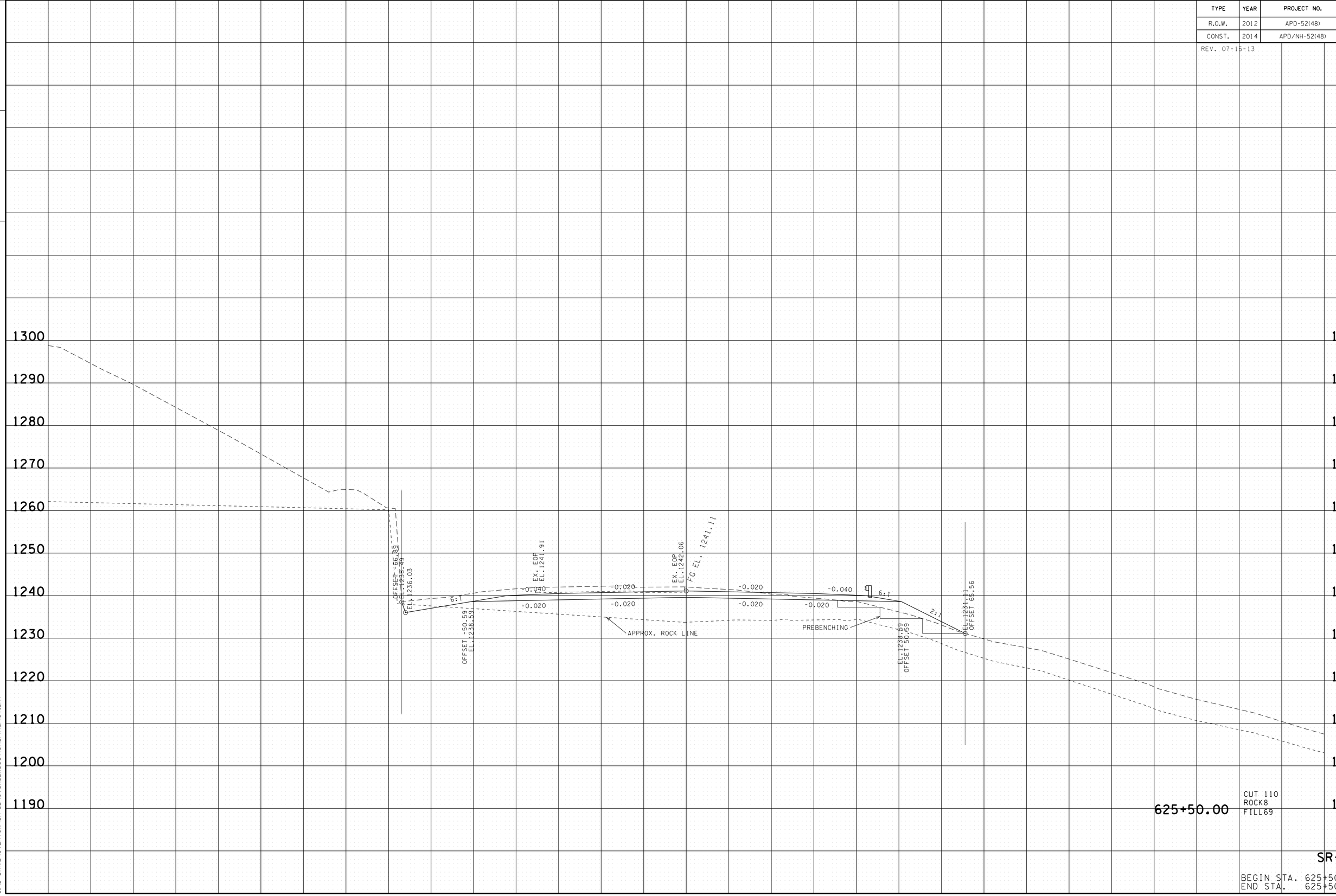
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	131
CONST.	2014	APD/NH-52(48)	138

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-52

BEGIN STA. 625+50.00
END STA. 625+50.00

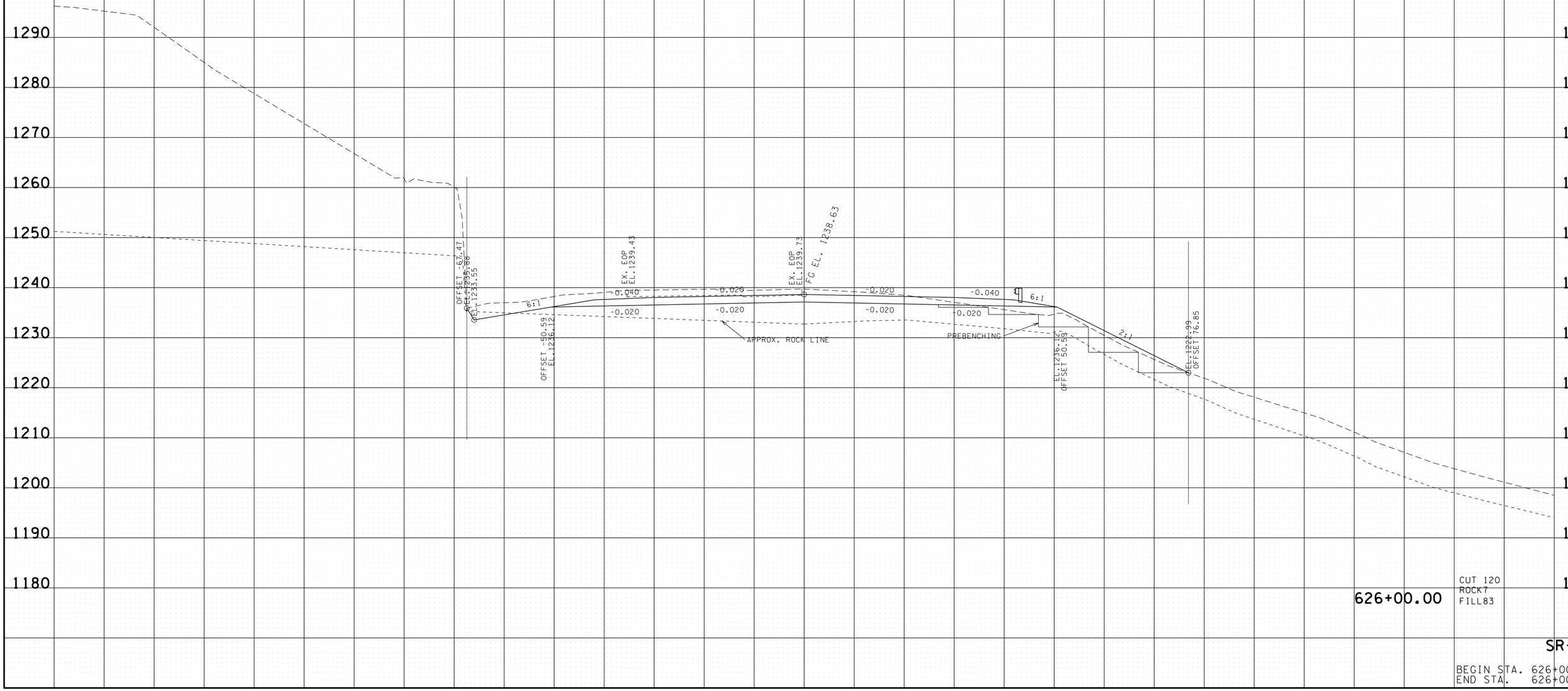
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	132
CONST.	2014	APD/NH-52(48)	139

REV. 07-15-13



626+00.00

CUT 120
ROCK7
FILL83

SR-52

BEGIN STA. 626+00.00
END STA. 626+00.00

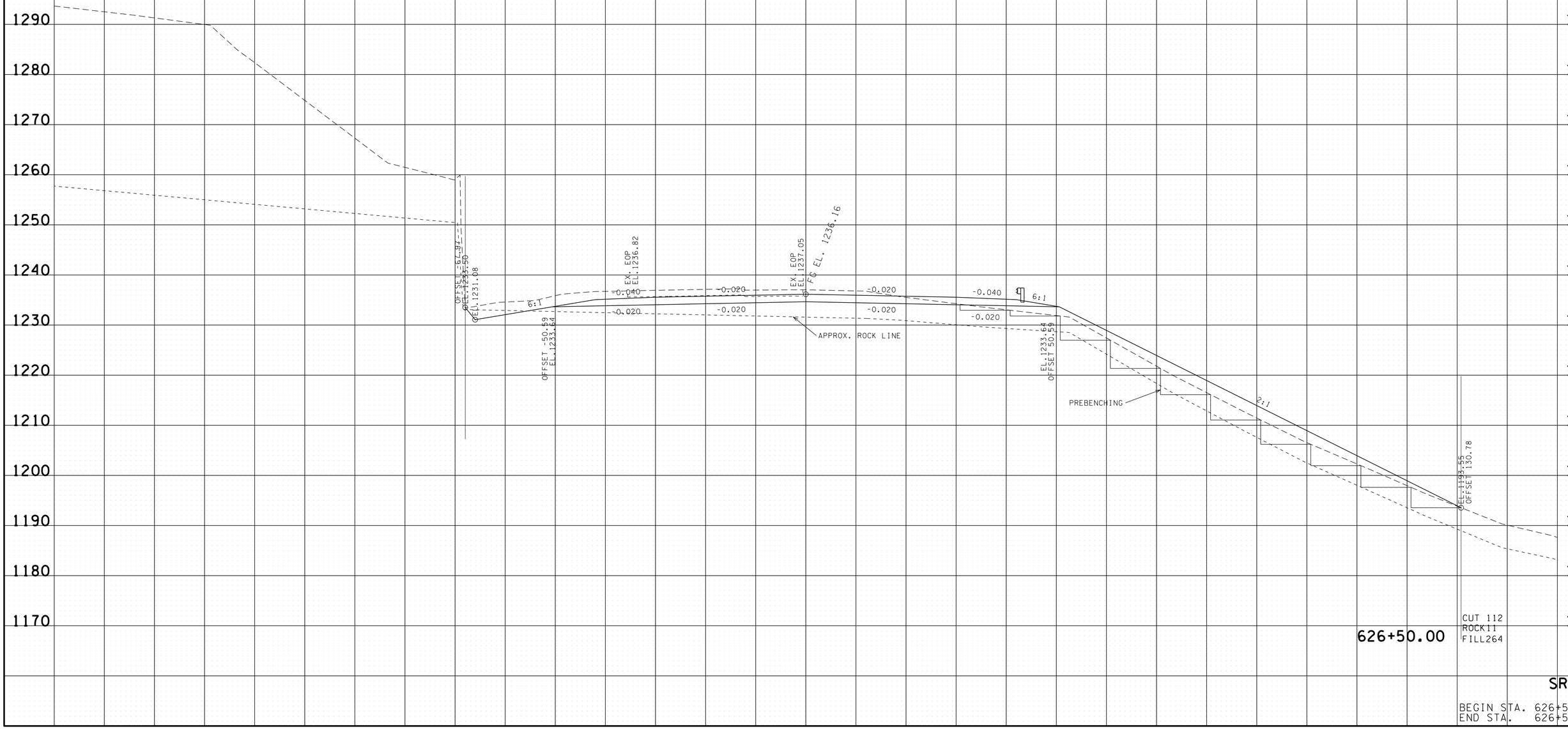
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	133
CONST.	2014	APD/NH-52(48)	140

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-52

BEGIN STA. 626+50.00
END STA. 626+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	134
CONST.	2014	APD/NH-52(48)	141

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1380 1370 1360 1350 1340 1330 1320 1310 1300 1290 1280 1270 1260 1250 1240 1230 1220 1210 1200

OFFSET -69.54
EL. 1231.64
EL. 1228.60
6:1
OFFSET -50.59
EL. 1231.17
EX. EOP
EL. 1234.96
-0.020
EX. EOP
EL. 1235.05
PROFILE GRADE EL. 1233.68
-0.020
-0.020
-0.020
-0.020
-0.040
6:1
APPROX. ROCK LINE
EL. 1231.17
OFFSET 50.59
EL. 1229.88
OFFSET 53.16

627+00.00

CUT 140
ROCK17
FILL27

SR-52

BEGIN STA. 627+00.00
END STA. 627+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	135
CONST.	2014	APD/NH-52(48)	142

REV. 07-15-13

1380 1370 1360 1350 1340 1330 1320 1310 1300 1290 1280 1270 1260 1250 1240 1230 1220 1210 1200

OFFSET -66.45
EL. 1226.48

OFFSET -49.28
EL. 1229.27

EX. EOP
EL. 1233.14

EX. EOP
EL. 1232.86

FG EL. 1231.23

EL. 1228.72
OFFSET 50.59

EL. 1228.16
OFFSET 51.71

6:1 6:1

-0.040 -0.010 -0.009 -0.020 -0.040 -0.020 -0.020

APPROX. ROCK LINE

627+50.00

CUT 167
ROCK22
FILL12

SR-52

BEGIN STA. 627+50.00
END STA. 627+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	136
CONST.	2014	APD/NH-52(48)	143

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1370
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210
1200
1190

OFFSET -65.89
EL. 1224.58

6:1

OFFSET -49.28
EL. 1227.33

EX. EOP
EL. 1231.27

-0.040
-0.010

0.003
0.003

EX. EOP
EL. 1230.88

FG EL. 1228.92

APPROX. ROCK LINE

-0.020
-0.020

-0.040
-0.020

6:1

EL. 1226.41
OFFSET 50.59

OFFSET 66.66

628+00.00

CUT 58
ROCK163
FILL3

SR-52

BEGIN STA. 628+00.00
END STA. 628+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	137
CONST.	2014	APD/NH-52(48)	144

REV. 07-15-13

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

1370 1360 1350 1340 1330 1320 1310 1300 1290 1280 1270 1260 1250 1240 1230 1220 1210 1200 1190

OFFSET -65.92
EL.1226.84
EL.1222.81

6:1

EX. EOP
EL.1229.62

-0.040

-0.010

-0.016

0.016

EX. EOP
EL.1228.88

IFG EL. 1226.78

0.020

-0.040

-0.020

APPROX. ROCK LINE

-0.020

OFFSET -49.28
EL.1225.56

6:1

EL.1224.27
OFFSET 50.59

EL.1221.70
OFFSET 67.55

CUT 35
ROCK194
FILL3

628+50.00

SR-52

BEGIN STA. 628+50.00
END STA. 628+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	138
CONST.	2014	APD/NH-52(48)	145

REV. 07-15-13

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

1370
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210
1200
1190

OFFSET -66.14
EL. 1226.26
OFFSET -76.26
EL. 1222.20
6:1
EX. EOP
EL. 1229.02
-0.040
-0.020
-0.010
OFFSET -49.28
EL. 1225.00
0.020
EX. EOP
EL. 1228.19
FG EL. 1226.09
APPROX. ROCK LINE
-0.020
-0.020
-0.040
6:1
EL. 1223.58
OFFSET 50.59
EL. 1221.01
OFFSET 67.55
EL. 1221.78
OFFSET 77.55

628+66.97

CUT 38
ROCK189
FILL6

SR-52

BEGIN STA. 628+66.97
END STA. 628+66.97

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSections\FinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	139
CONST.	2014	APD/NH-52(48)	146

REV. 07-15-13

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

1370 1360 1350 1340 1330 1320 1310 1300 1290 1280 1270 1260 1250 1240 1230 1220 1210 1200 1190

OFFSET -66.11
EL. 1225.43
EL. 1221.16

6:1

EX. EOP
EL. 1227.85

-0.040

-0.028

-0.010

0.028

OFFSET -49.28
EL. 1223.35

EX. EOP
EL. 1226.69

FG EL. 1224.80

APPROX. ROCK LINE -0.028

-0.028

-0.040

-0.028

6:1

EL. 1221.84
OFFSET 51.81

EL. 1219.48
EL. 1220.38
OFFSET 67.81

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

629+00.00

CUT 32
ROCK193
FILL4

SR-52

BEGIN STA. 629+00.00
END STA. 629+00.00

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	140
CONST.	2014	APD/NH-52(48)	147

REV. 07-15-13

1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180

OFFSET -67.37
EL. 1223.06
EL. 1219.85

OFFSET -50.09
EL. 1222.50

EX. EOP
EL. 1226.14

-0.029
-0.010
0.041
0.041

EX. EOP
EL. 1224.70

FG EL. 1222.98

APPROX. ROCK LINE

-0.041
-0.041
-0.041
-0.041
-0.040

6:1
6:1
6:1

EL. 1219.31
OFFSET 53.83

EL. 1217.28

EL. 1219.00
OFFSET 69.44

629+50.00

CUT 61
ROCK159
FILL1

SR-52

BEGIN STA. 629+50.00
END STA. 629+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	141
CONST.	2014	APD/NH-52(48)	148

REV. 07-15-13

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

1340 1330 1320 1310 1300 1290 1280 1270 1260 1250 1240 1230 1220 1210 1200 1190 1180 1170 1160

OFFSET 69.38
EL. 1220.25
EL. 1218.72
OFFSET -51.04
EL. 1221.21
EX. EDP
EL. 1224.73
EX. EDP
EL. 1223.06
FG EL. 1221.33
APPROX. ROCK LINE
EL. 1217.16
OFFSET 53.64
EL. 1215.10
EL. 1217.71
OFFSET 71.22

-0.011 -0.010 0.053 0.053 -0.053 -0.053 -0.053 -0.040 6:1 2:1

630+00.00

CUT 107
ROCK127
FILL1

SR-52

BEGIN STA. 630+00.00
END STA. 630+00.00

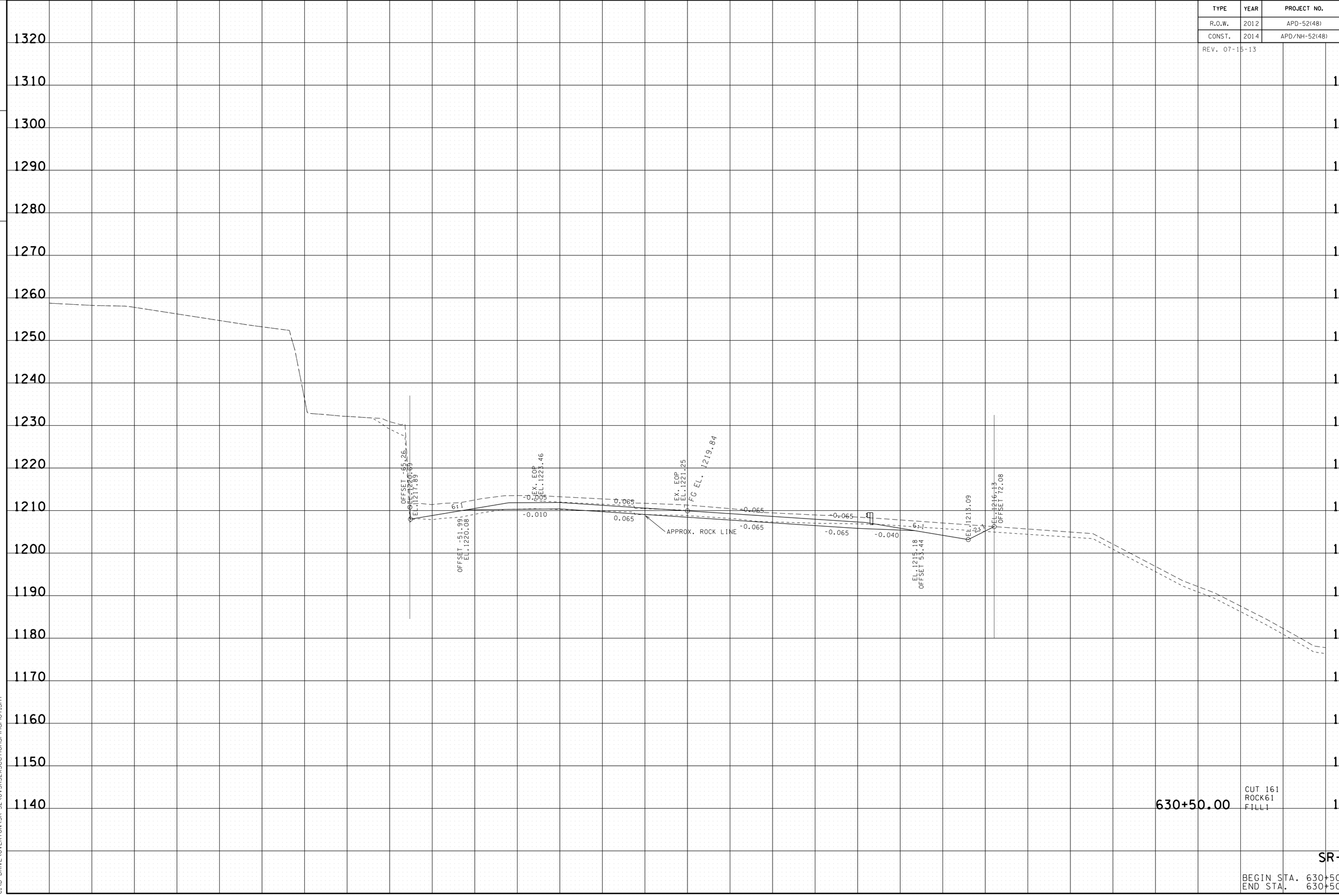
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	142
CONST.	2014	APD/NH-52(48)	149

REV. 07-15-13

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



630+50.00

CUT 161
ROCK61
FILL1

SR-52

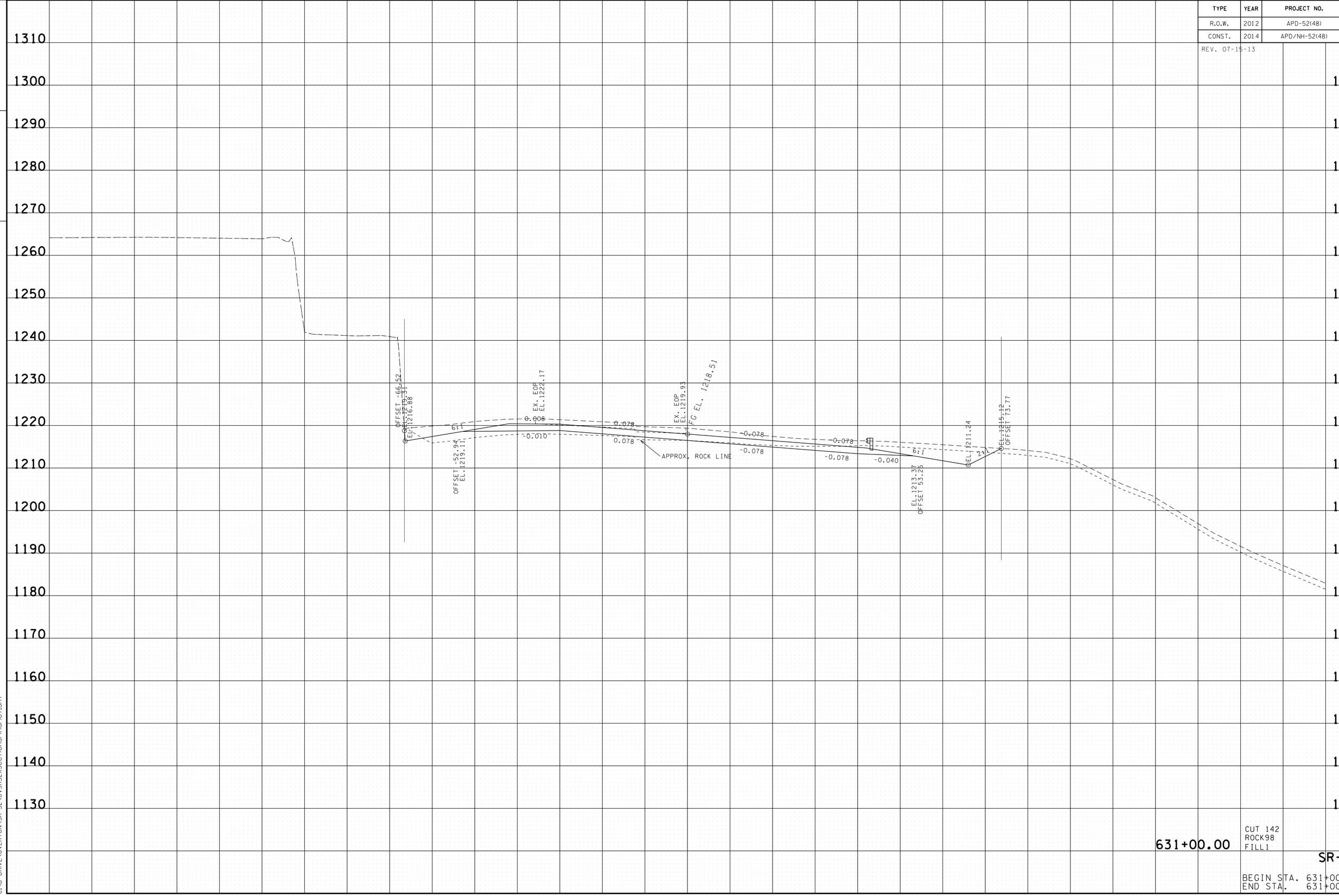
BEGIN STA. 630+50.00
END STA. 630+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	143
CONST.	2014	APD/NH-52(48)	150

REV. 07-15-13

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



631+00.00

CUT 142
ROCK98
FILL1

SR-52

BEGIN STA. 631+00.00
END STA. 631+00.00

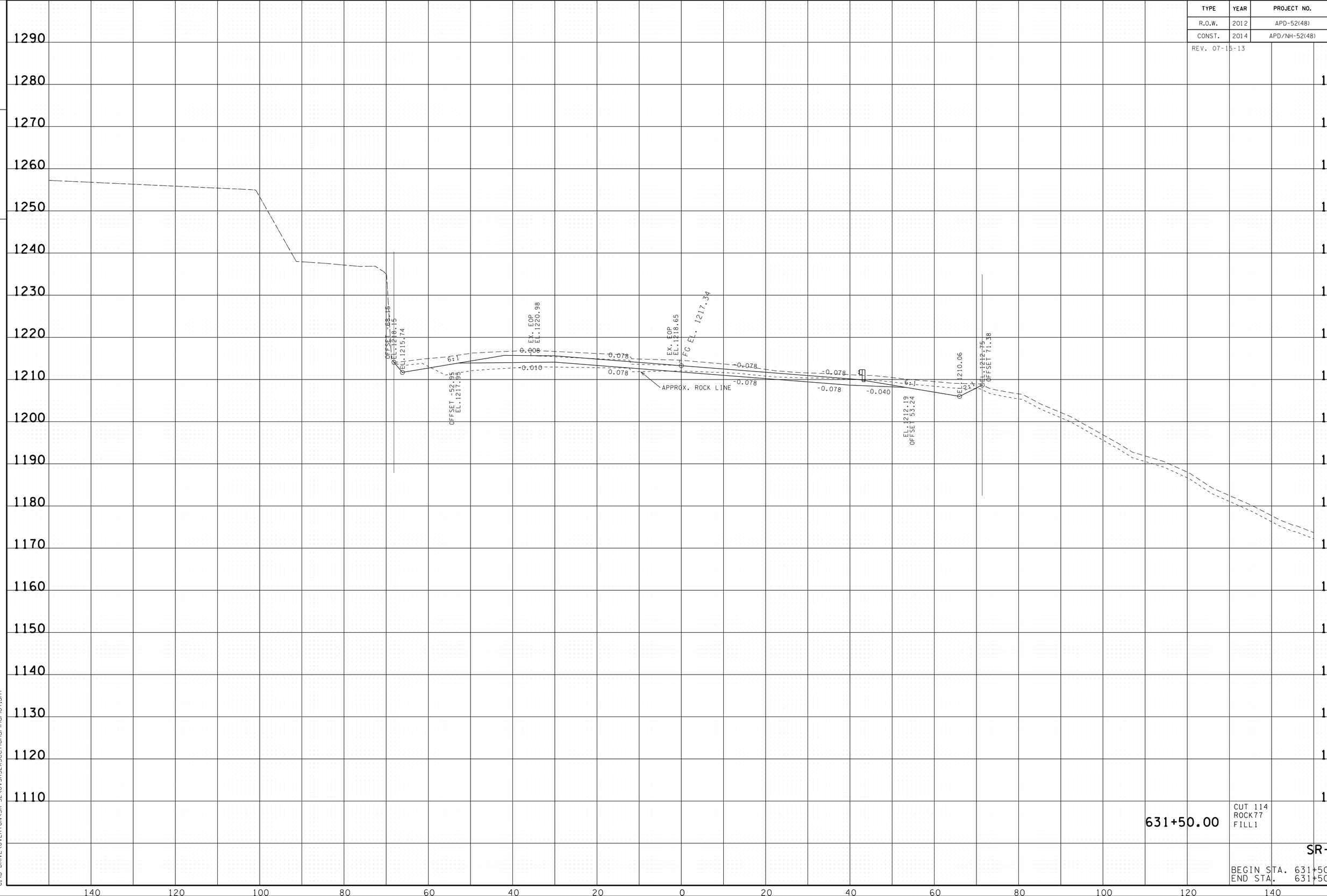
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	144
CONST.	2014	APD/NH-52(48)	151

REV. 07-15-13



631+50.00

CUT 114
ROCK77
FILL1

SR-52

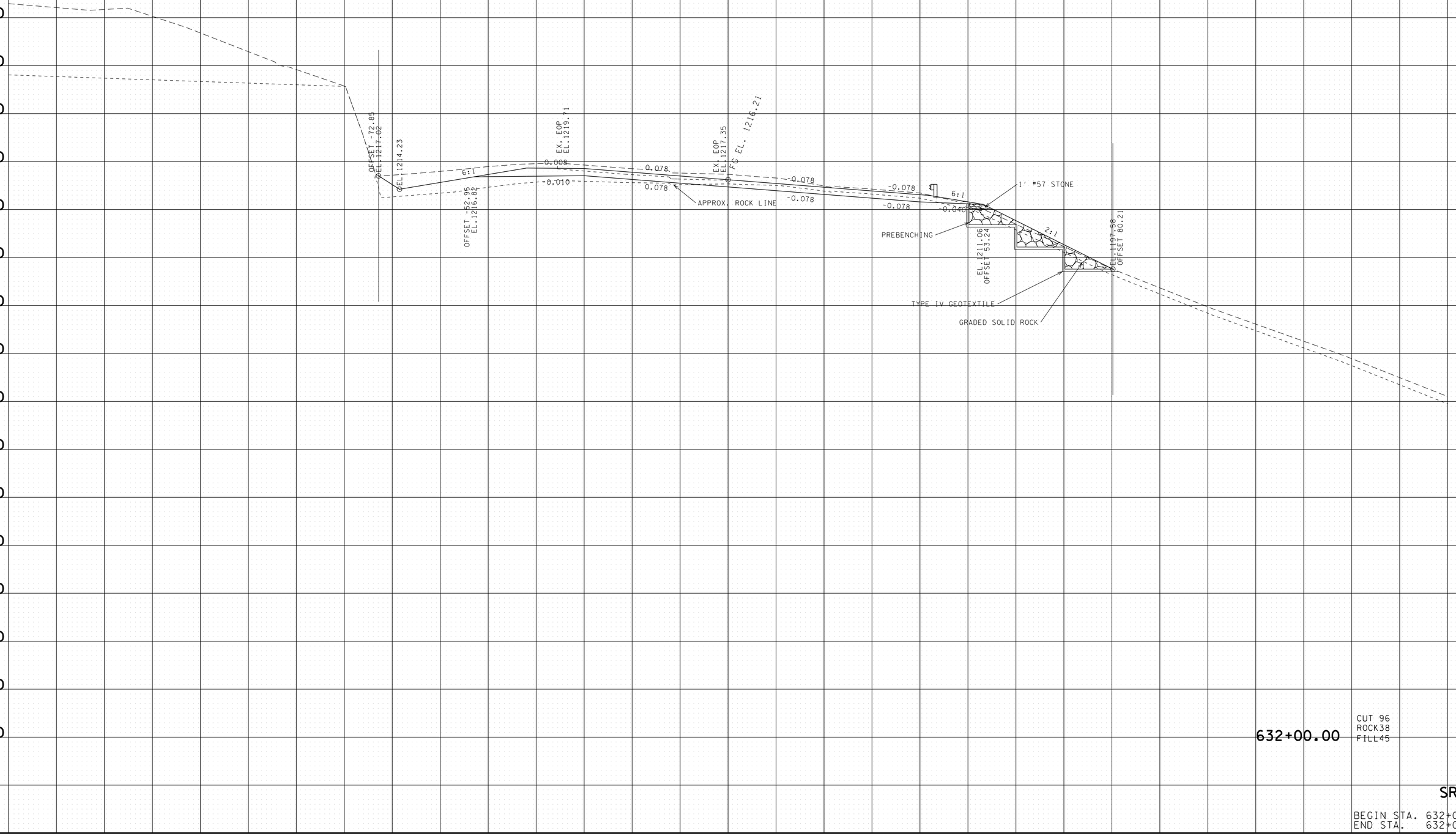
BEGIN STA. 631+50.00
END STA. 631+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	145
CONST.	2014	APD/NH-52(48)	152

REV. 07-15-13

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



632+00.00

CUT 96
ROCK38
FILL45

SR-52

BEGIN STA. 632+00.00
END STA. 632+00.00

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	146
CONST.	2014	APD/NH-52(48)	153

REV. 07-15-13

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

OFFSET -73.99
EL. 1214.97

OFFSET -54.14
EL. 1215.68

EL. 1215.24

10:1

6:1

-0.008

-0.010

-0.078

EX. EOP
EL. 1218.22

EX. EOP
EL. 1215.67

FC EL. 1215.09

APPROX. ROCK LINE

PREBENCHING

6:1

1' #57 STONE

EL. 1209.94
OFFSET -53.24

2:1

TYPE IV GEOTEXTILE

GRADED SOLID ROCK

EL. 1164.74
OFFSET 143.64

632+50.00

CUT 81
ROCK19
FILL872

SR-52

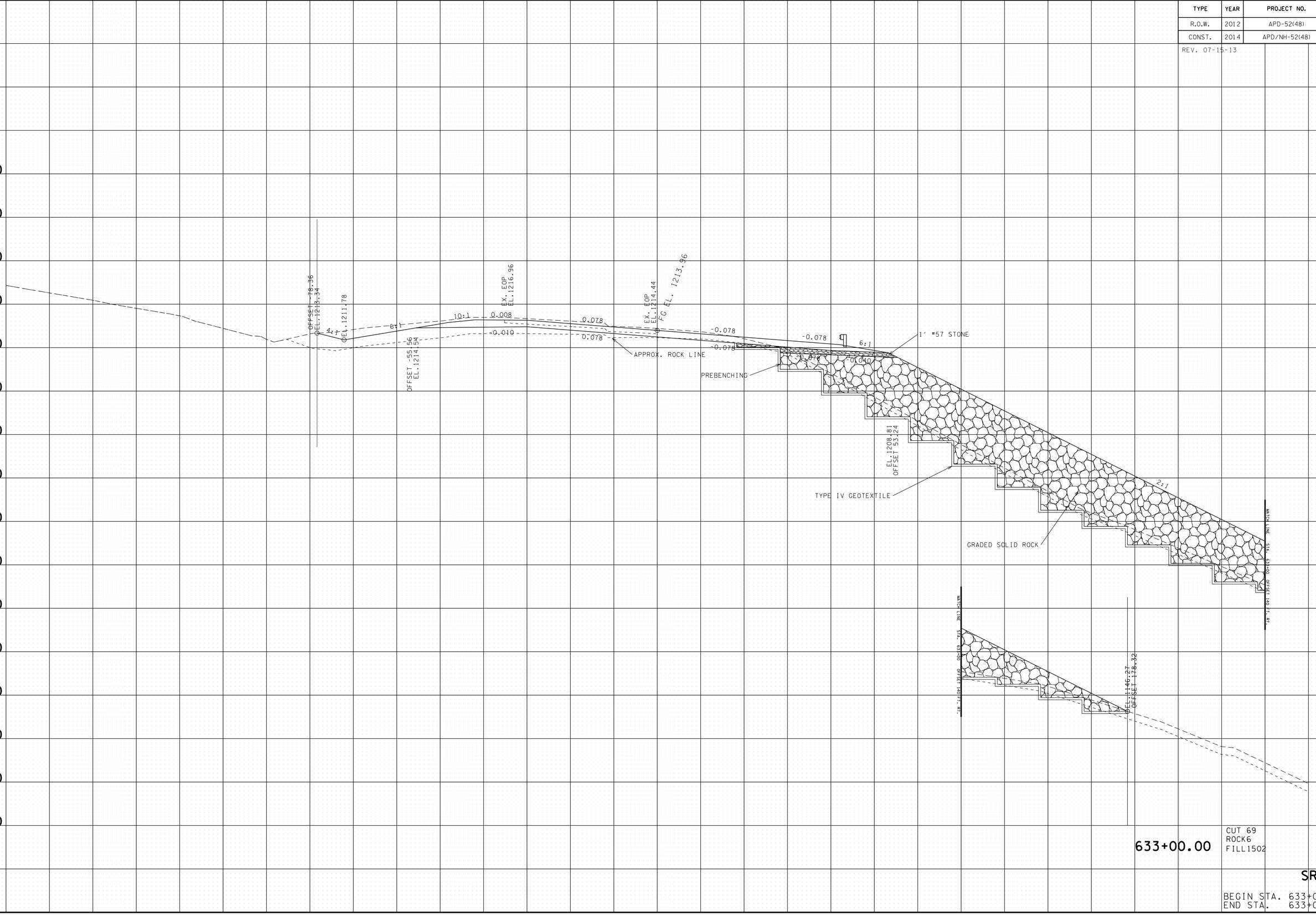
BEGIN STA. 632+50.00
END STA. 632+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	147
CONST.	2014	APD/NH-52(48)	154

REV. 07-15-13

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



633+00.00

CUT 69
ROCK6
FILL1502

SR-52

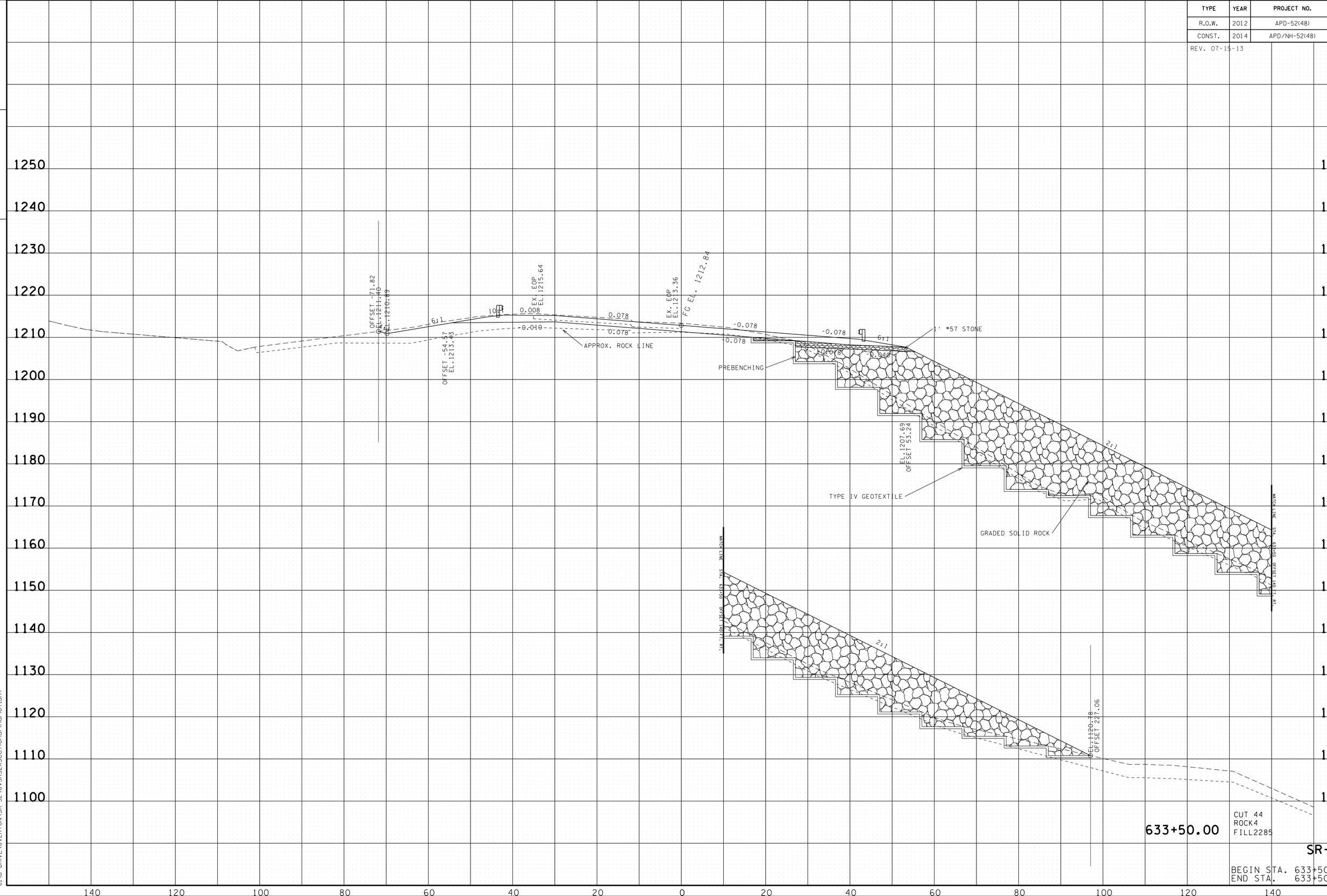
BEGIN STA. 633+00.00
END STA. 633+00.00

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	148
CONST.	2014	APD/NH-52(48)	155

REV. 07-15-13

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



633+50.00

CUT 44
ROCK4
FILL2285

SR-52

BEGIN STA. 633+50.00
END STA. 633+50.00

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	149
CONST.	2014	APD/NH-52(48)	156

REV. 07-15-13

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

OFFSET -66.74
EL. 1210.78

OFFSET -52.95
EL. 1212.32

6:1

0.008

-0.010

0.078

EX. EOP
EL. 1214.41

APPROX. ROCK LINE

EX. EOP
EL. 1211.95

FG EL. 1211.71

-0.078

-0.078

-0.078

6:1

1' #57 STONE

PREBENCHING

0.040

EL. 1206.56
OFFSET 53.24

2:1

TYPE IV GEOTEXTILE

GRADED SOLID ROCK

MATCH LINE STA. 634+00 OFFSET 140.71 RT.

2:1

EL. 1119.01
OFFSET 228.34

CUT 43
ROCK3
FILL2561

634+00.00

SR-52

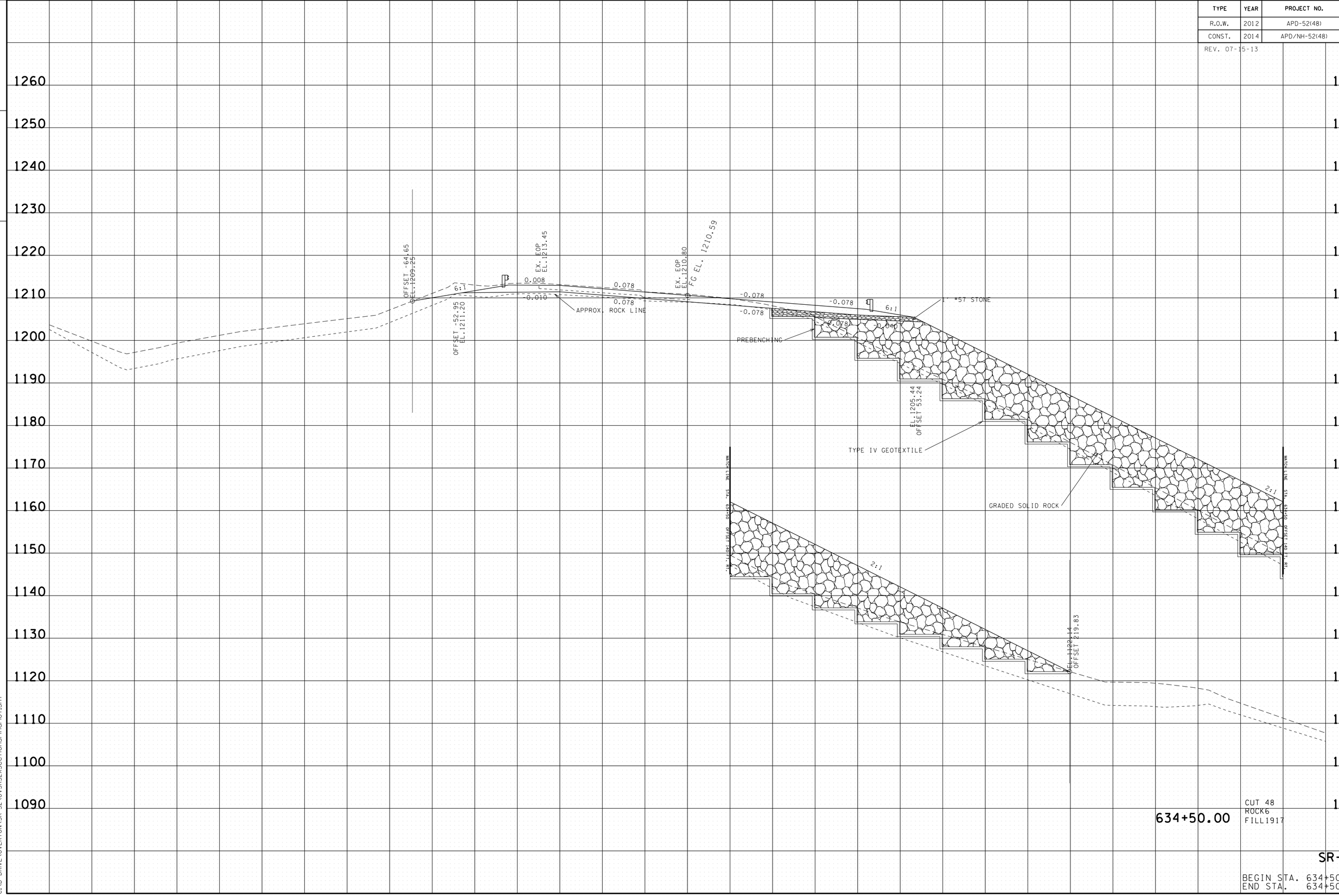
BEGIN STA. 634+00.00
END STA. 634+00.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	150
CONST.	2014	APD/NH-52(48)	157

REV. 07-15-13

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



634+50.00

CUT 48
ROCK6
FILL1917

SR-52

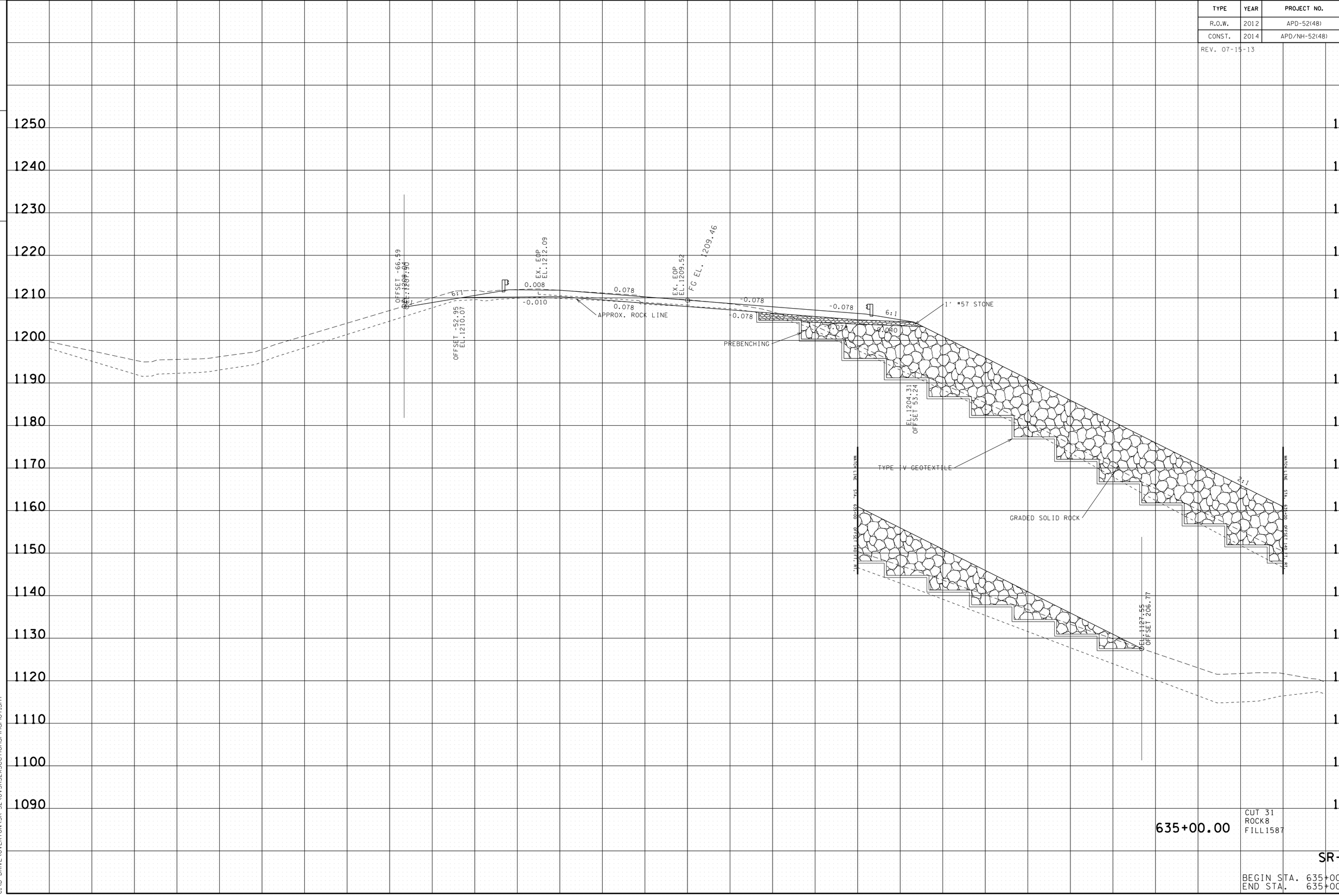
BEGIN STA. 634+50.00
END STA. 634+50.00

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	151
CONST.	2014	APD/NH-52(48)	158

REV. 07-15-13

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



635+00.00

CUT 31
ROCK8
FILL1587

SR-52

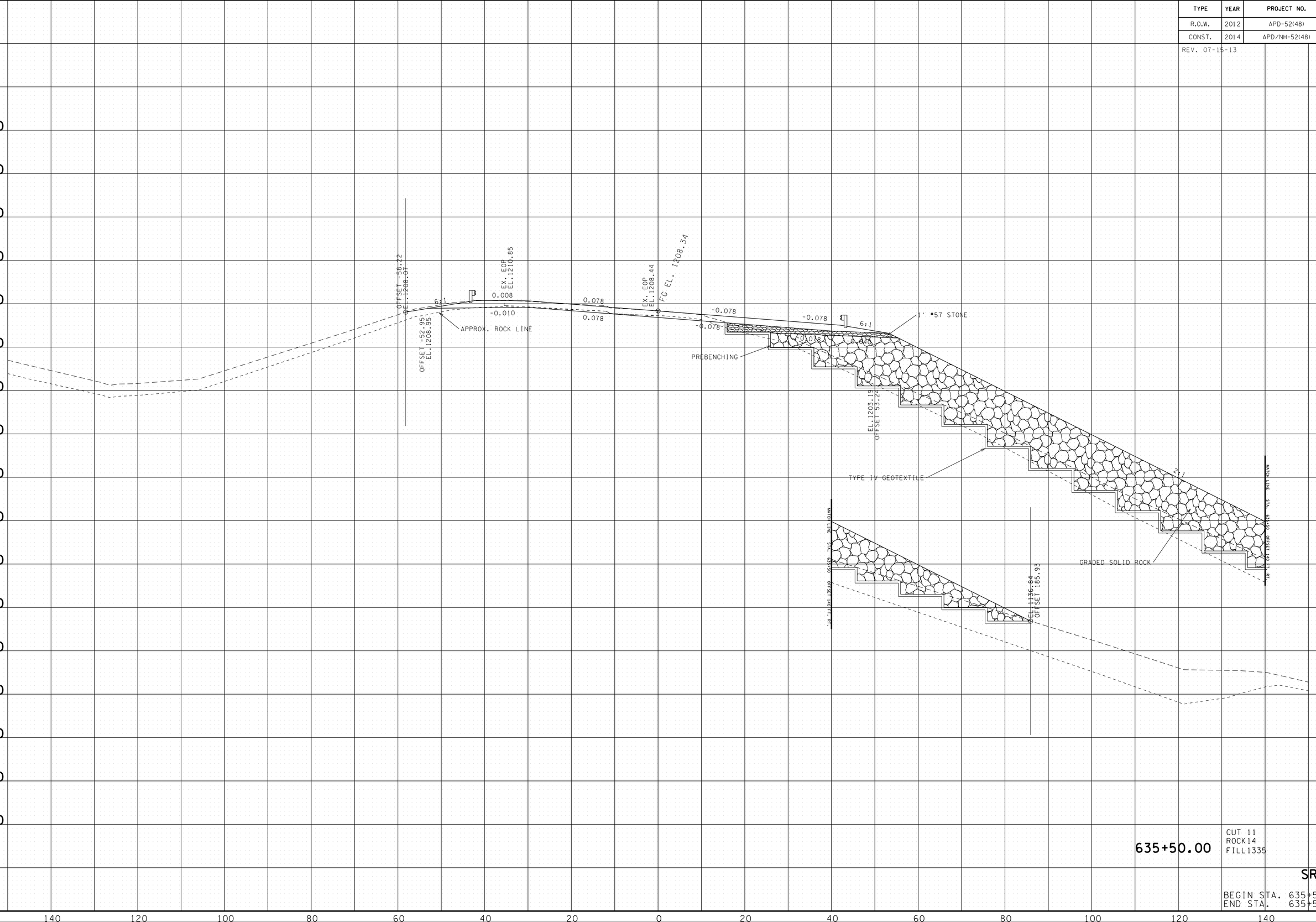
BEGIN STA. 635+00.00
END STA. 635+00.00

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	152
CONST.	2014	APD/NH-52(48)	159

REV. 07-15-13

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



635+50.00

CUT 11
ROCK14
FILL1335

SR-52

BEGIN STA. 635+50.00
END STA. 635+50.00

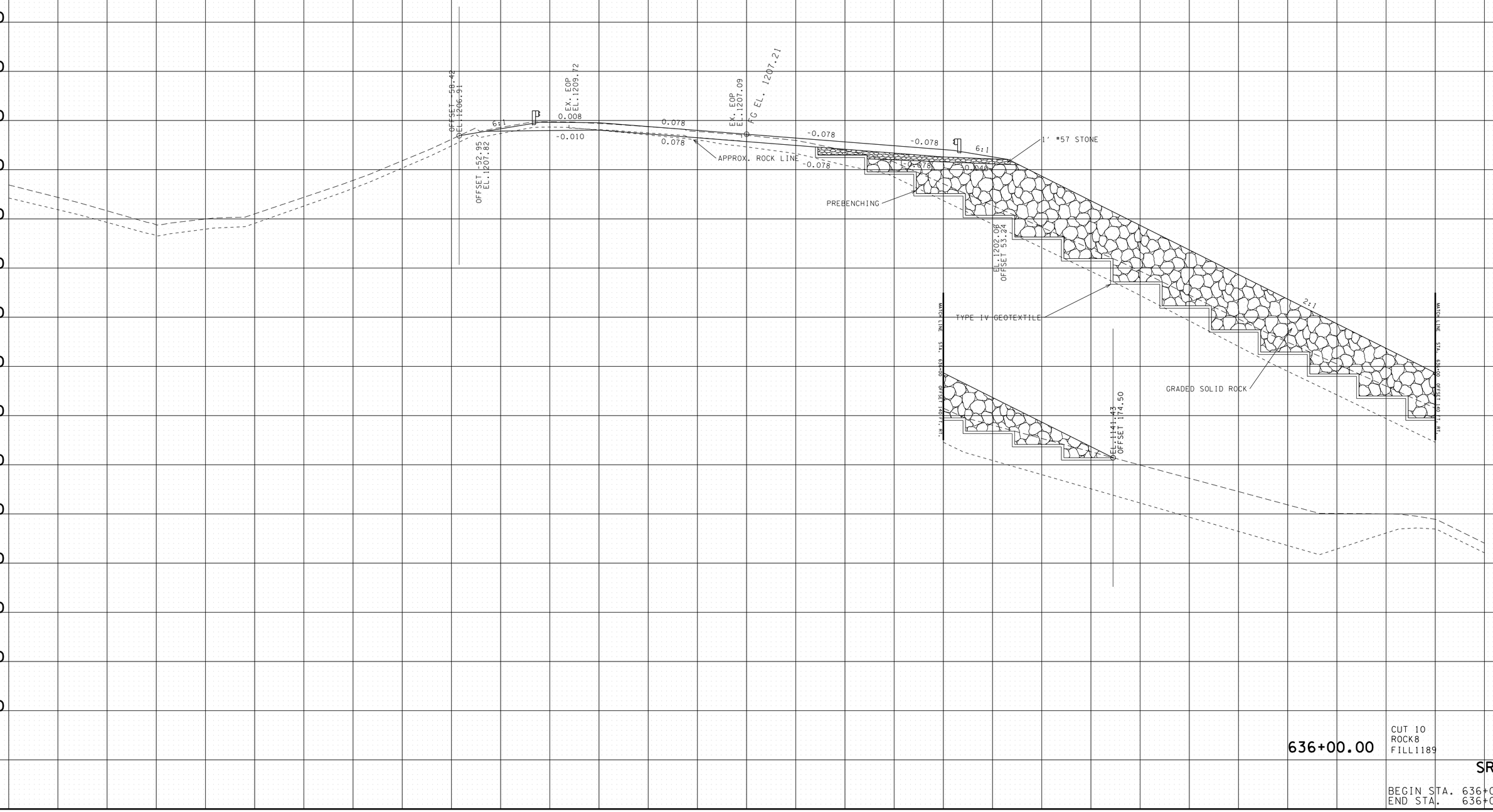
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	153
CONST.	2014	APD/NH-52(48)	160

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



636+00.00

CUT 10
ROCK8
FILL1189

SR-52

BEGIN STA. 636+00.00
END STA. 636+00.00

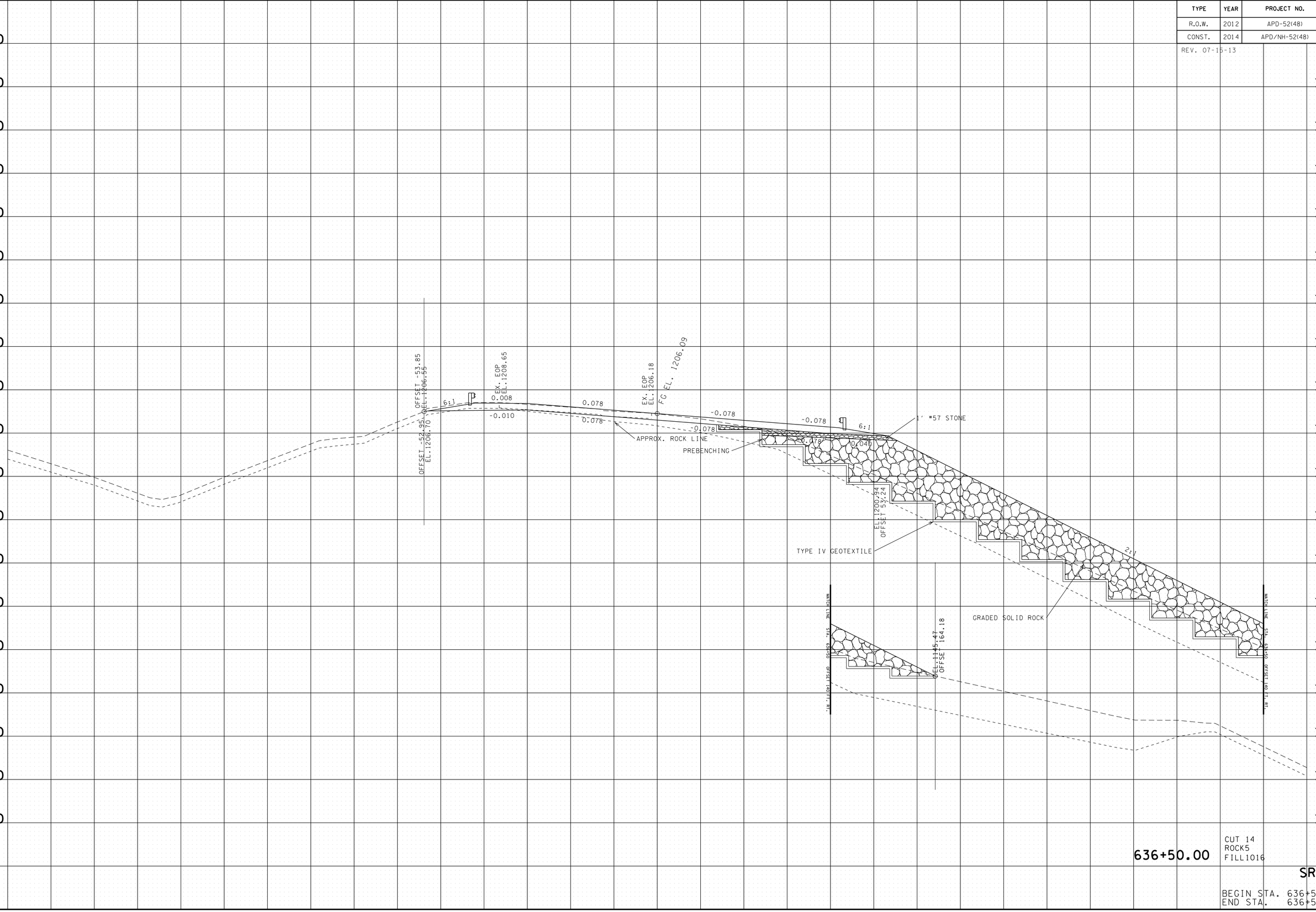
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	154
CONST.	2014	APD/NH-52(48)	161

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



636+50.00

CUT 14
ROCK5
FILL1016

SR-52

BEGIN STA. 636+50.00
END STA. 636+50.00

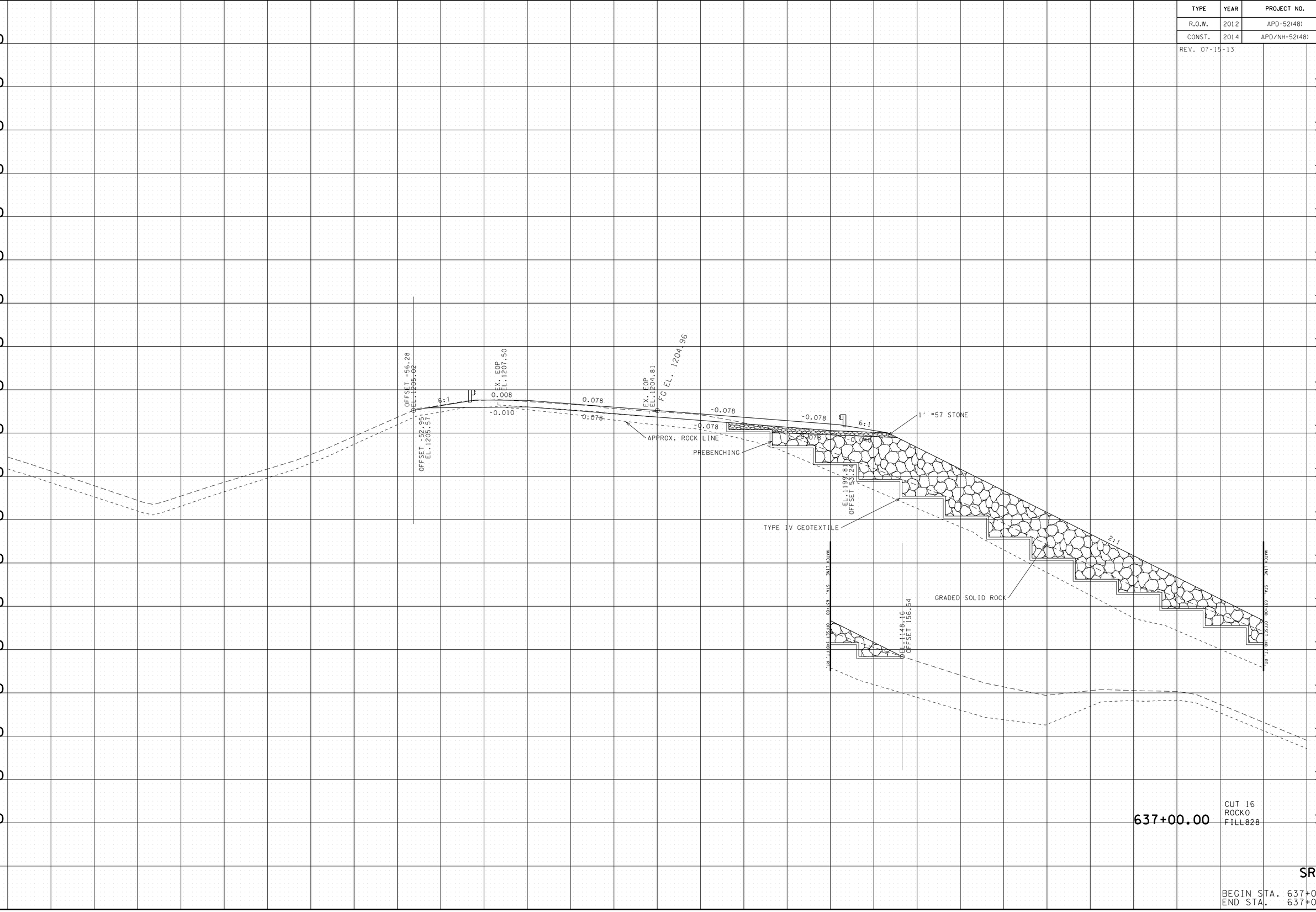
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	155
CONST.	2014	APD/NH-52(48)	162

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-52

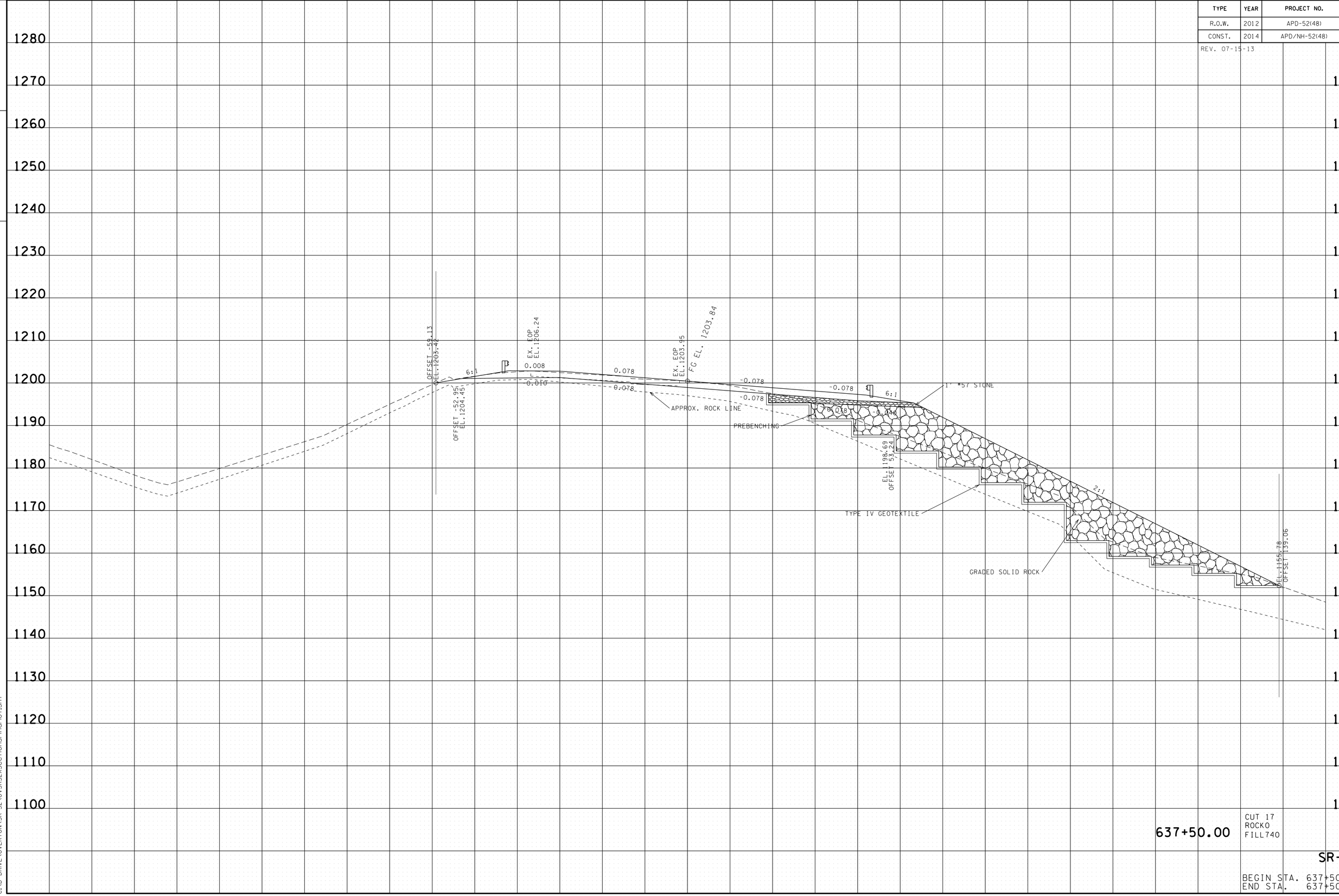
BEGIN STA. 637+00.00
END STA. 637+00.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	156
CONST.	2014	APD/NH-52(48)	163

REV. 07-15-13

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



637+50.00

CUT 17
ROCK0
FILL740

SR-52

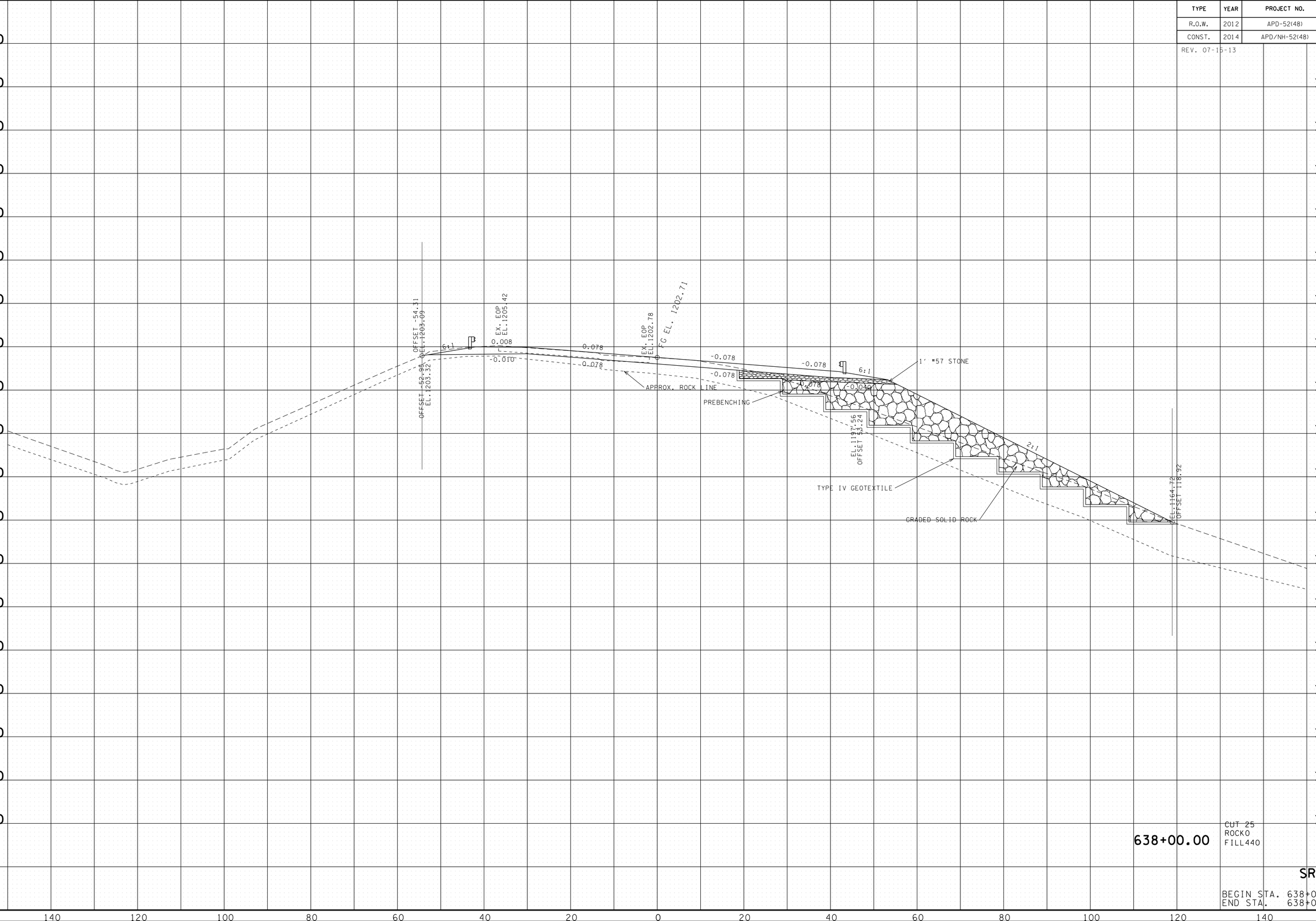
BEGIN STA. 637+50.00
END STA. 637+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	157
CONST.	2014	APD/NH-52(48)	164

REV. 07-15-13

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



638+00.00

CUT 25
ROCKO
FILL440

SR-52

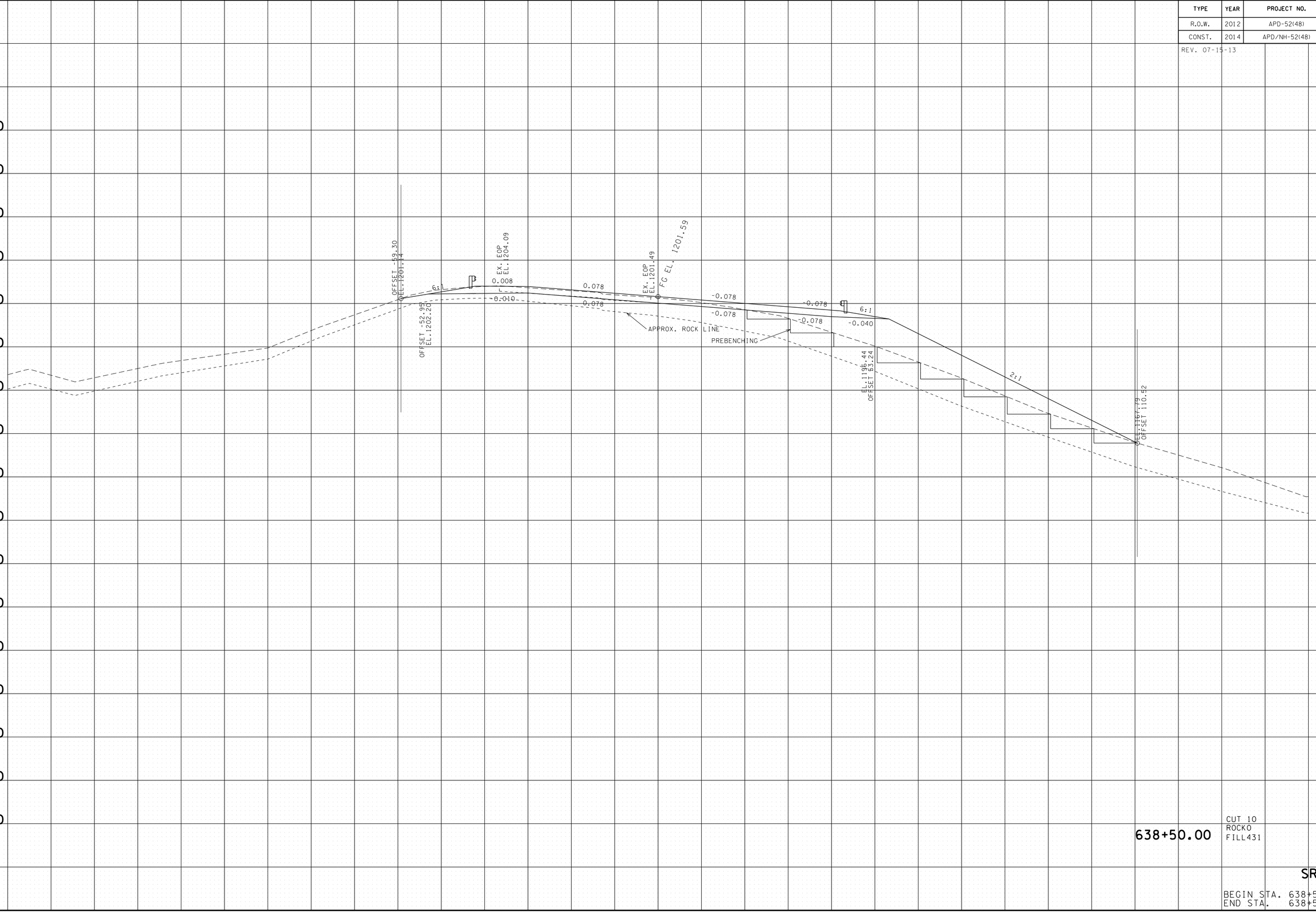
BEGIN STA. 638+00.00
END STA. 638+00.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	158
CONST.	2014	APD/NH-52(48)	165

REV. 07-15-13

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



638+50.00

CUT 10
ROCKO
FILL431

SR-52

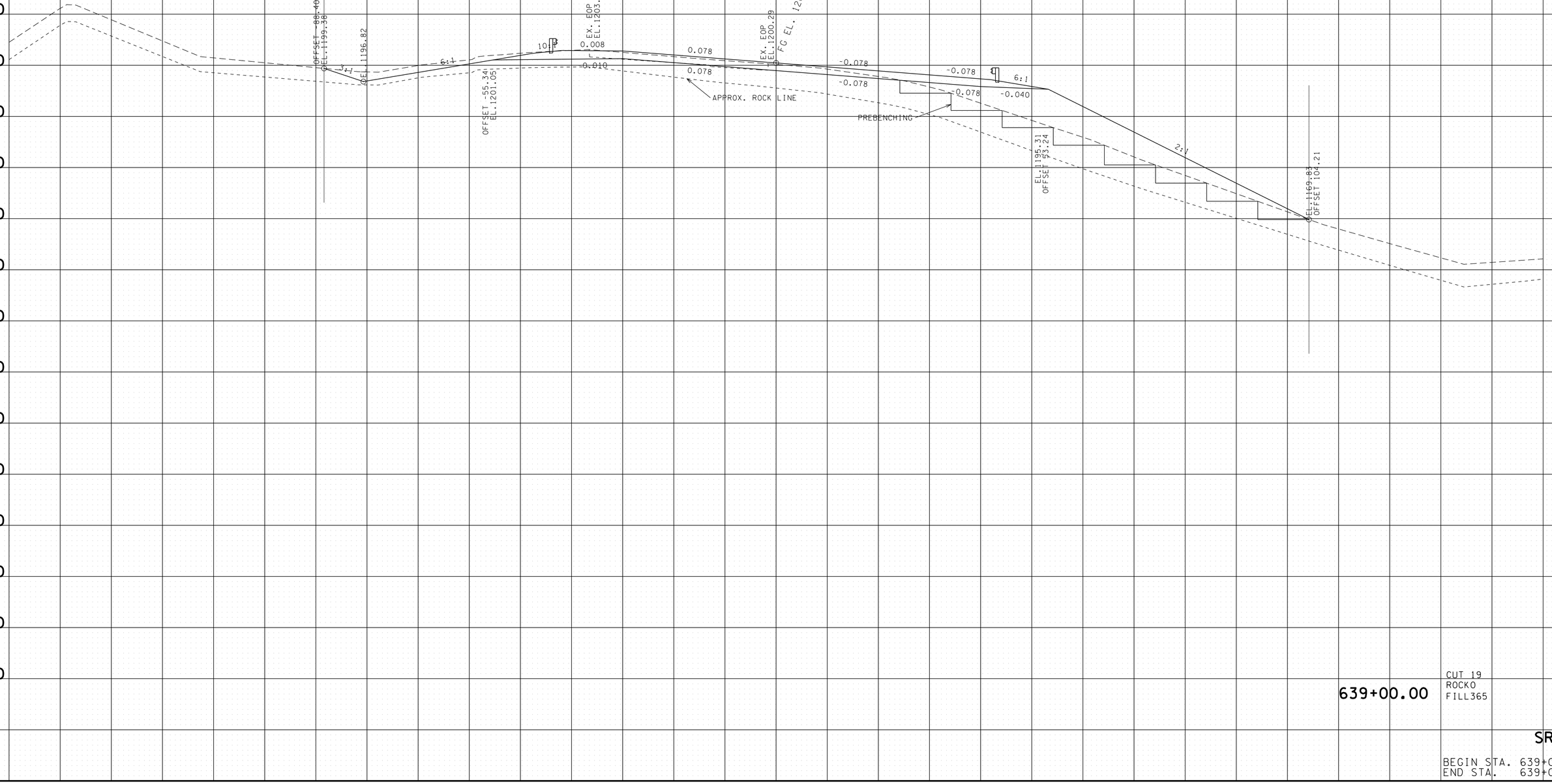
BEGIN STA. 638+50.00
END STA. 638+50.00

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSections\FinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	159
CONST.	2014	APD/NH-52(48)	166

REV. 07-15-13

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



639+00.00

CUT 19
ROCKO
FILL365

SR-52

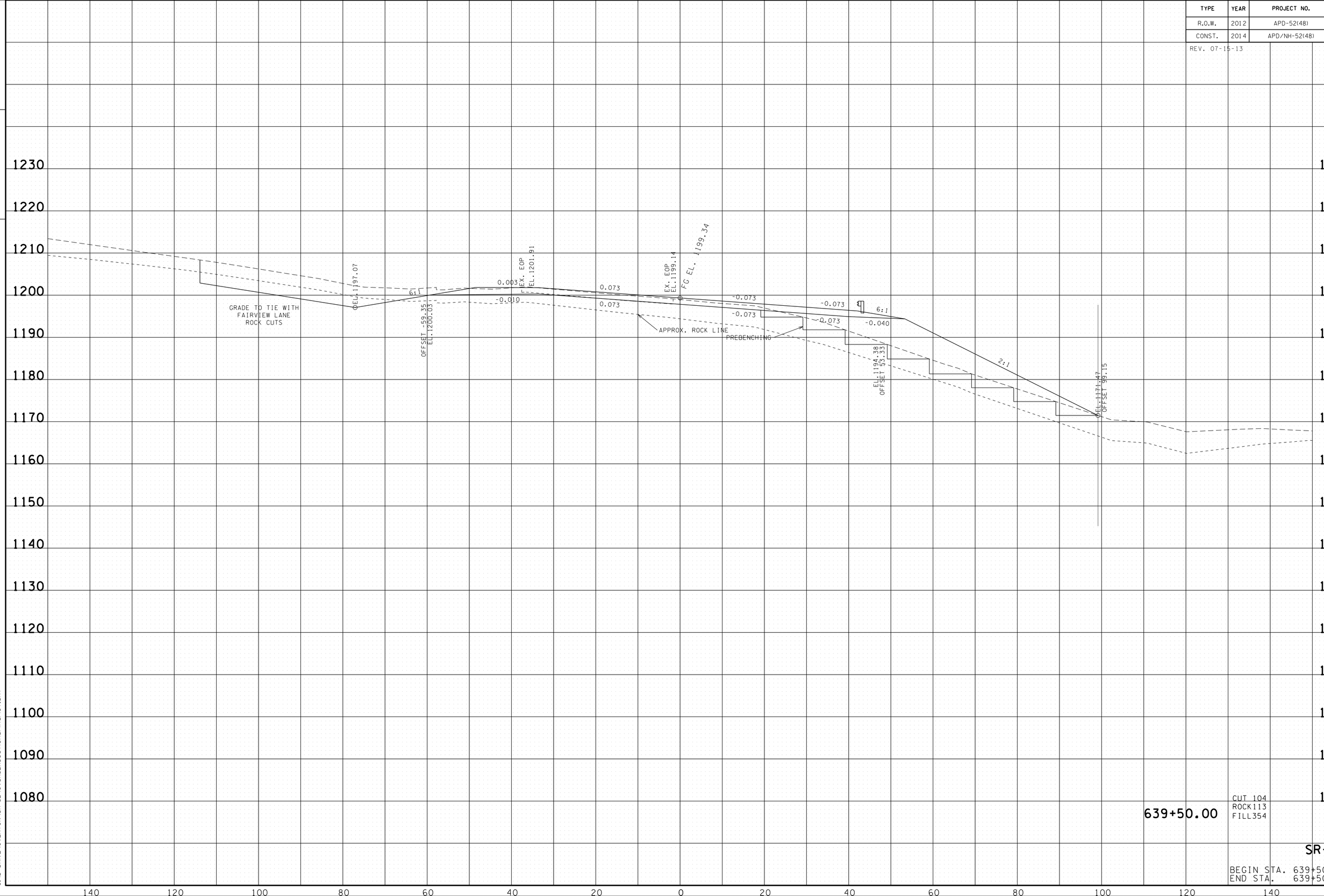
BEGIN STA. 639+00.00
END STA. 639+00.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	160
CONST.	2014	APD/NH-52(48)	167

REV. 07-15-13

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



639+50.00

CUT 104
ROCK113
FILL354

SR-52

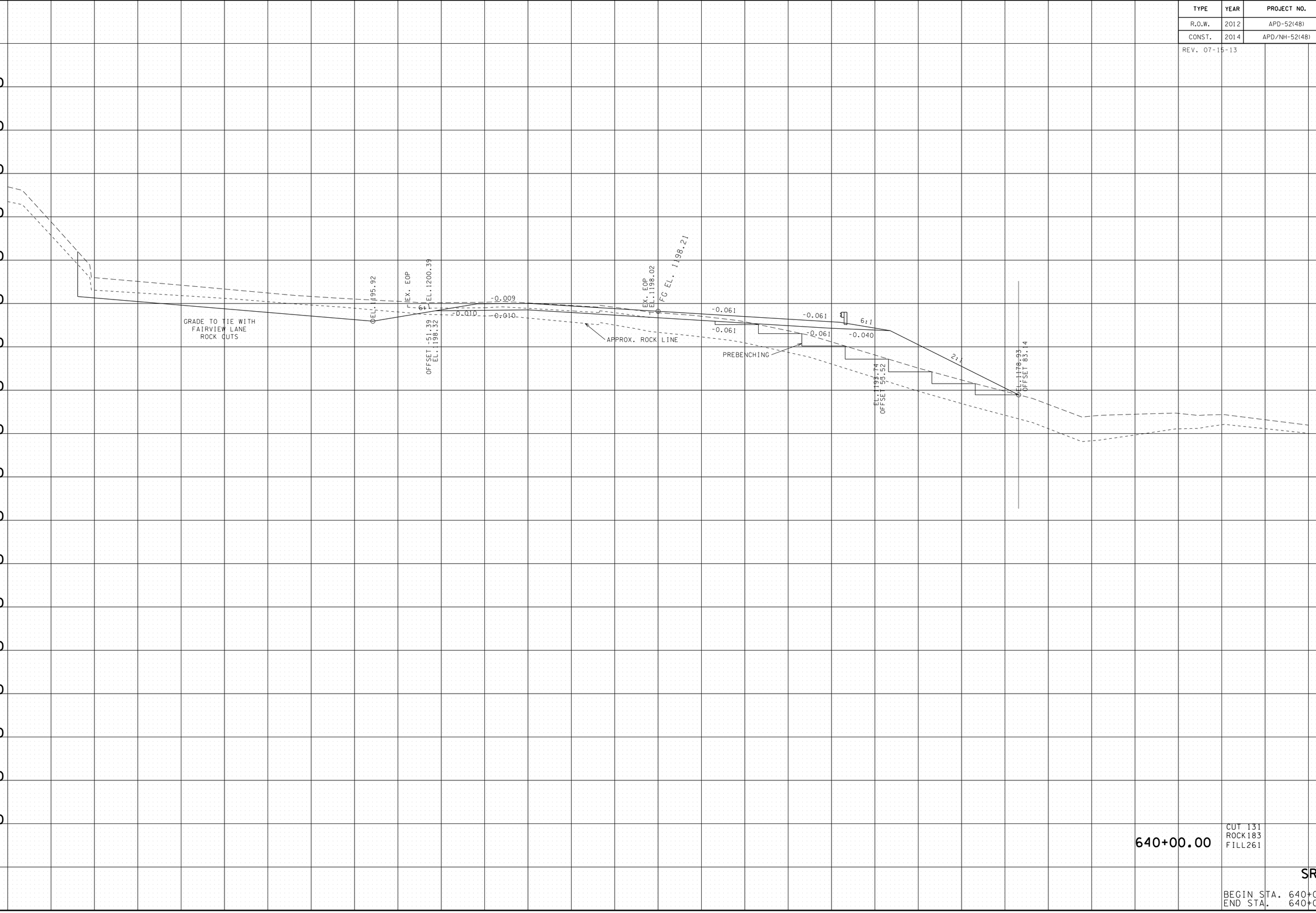
BEGIN STA. 639+50.00
END STA. 639+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	161
CONST.	2014	APD/NH-52(48)	168

REV. 07-15-13

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



640+00.00

CUT 131
ROCK183
FILL261

SR-52

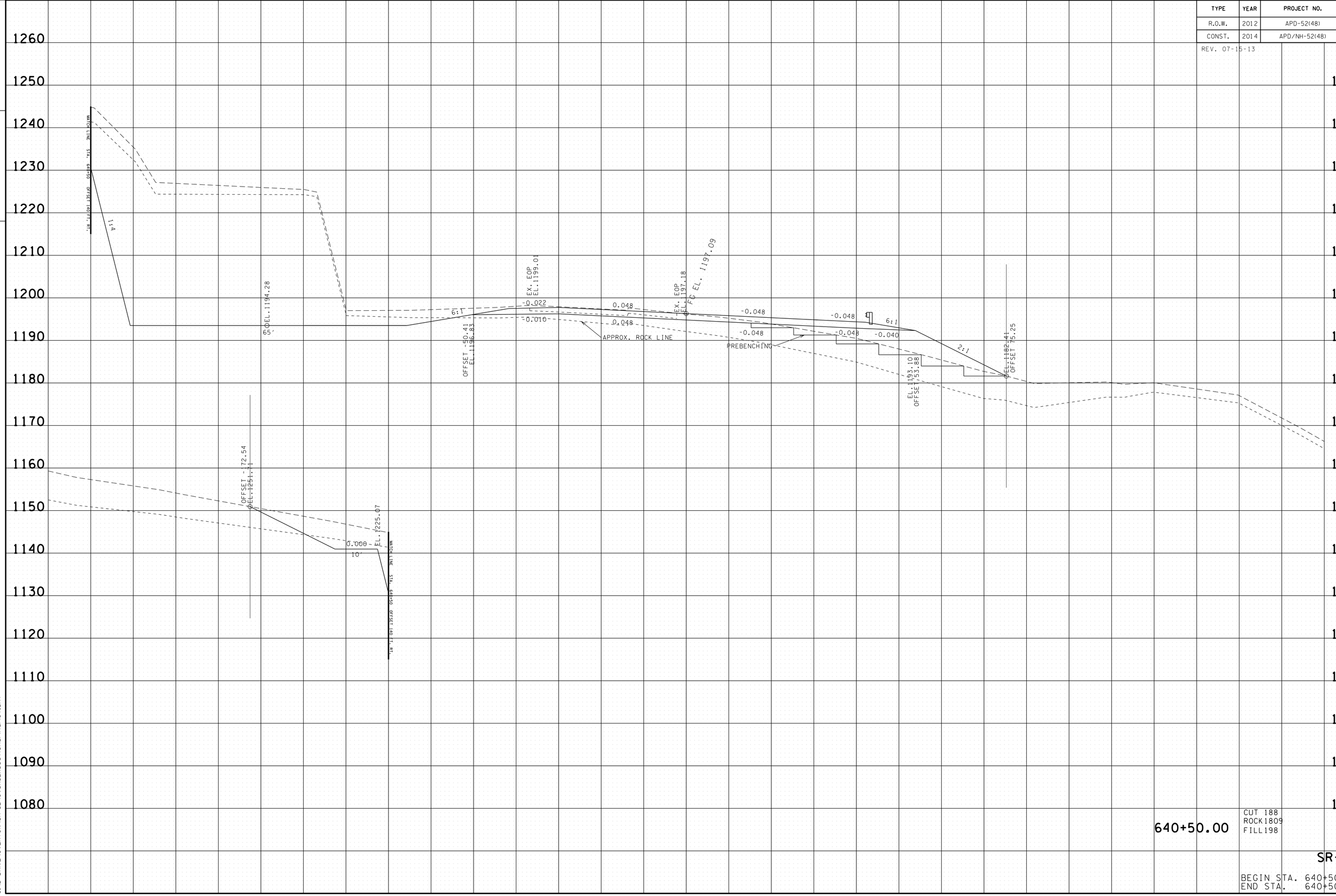
BEGIN STA. 640+00.00
END STA. 640+00.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	162
CONST.	2014	APD/NH-52(48)	169

REV. 07-15-13



640+50.00

CUT 188
ROCK1809
FILL198

SR-52

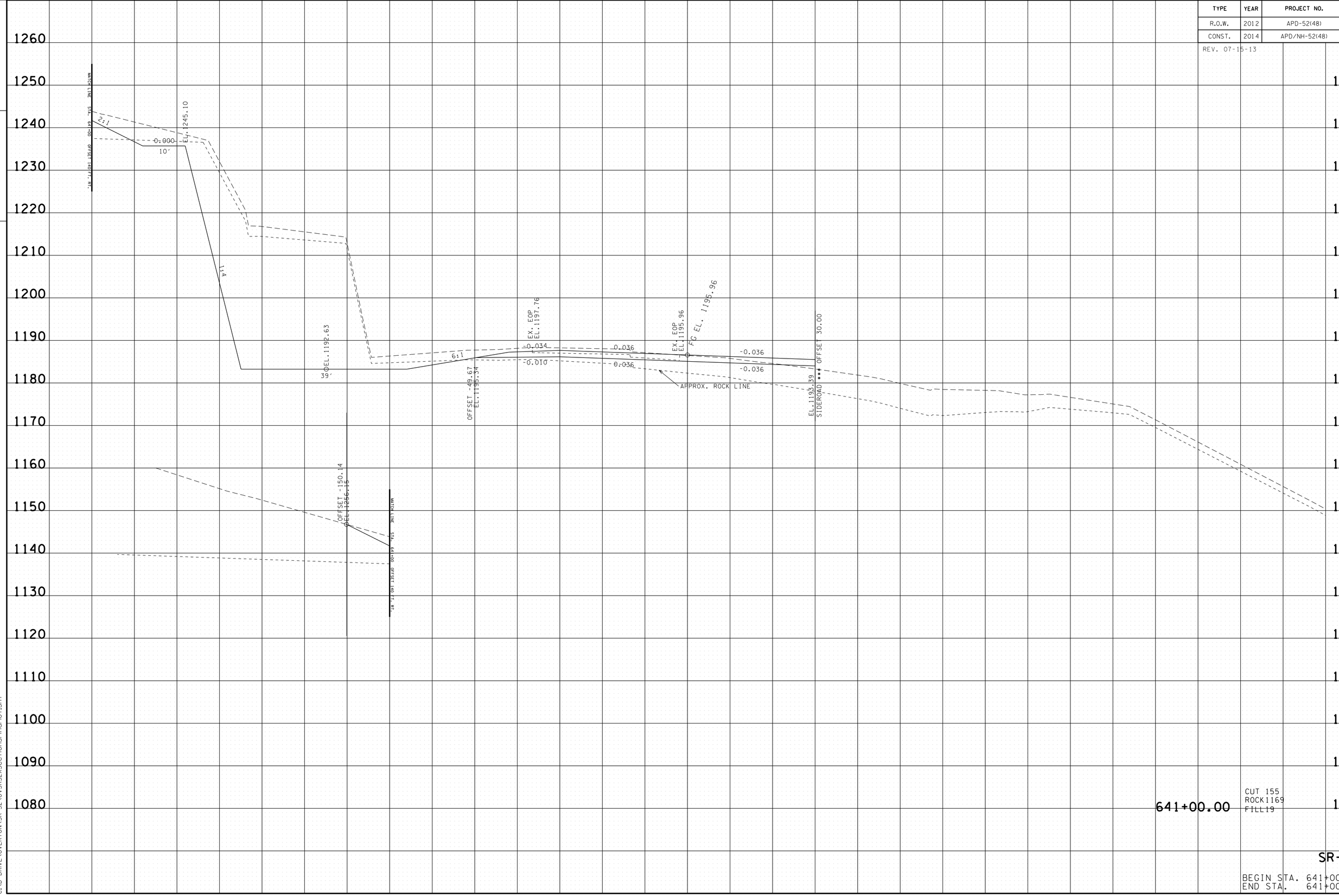
BEGIN STA. 640+50.00
END STA. 640+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	163
CONST.	2014	APD/NH-52(48)	170

REV. 07-15-13

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



641+00.00

CUT 155
ROCK1169
FILL19

SR-52

BEGIN STA. 641+00.00
END STA. 641+00.00

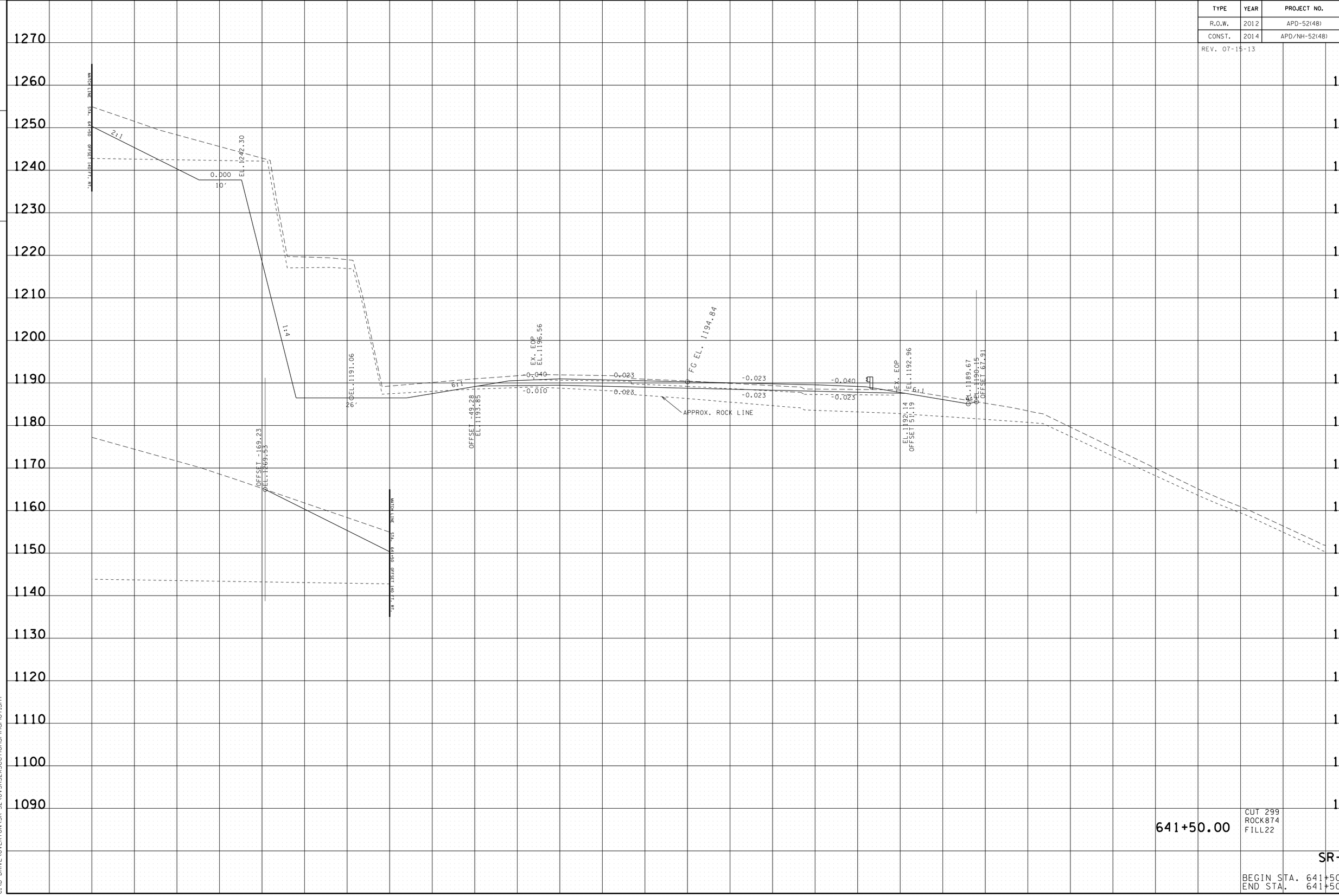
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	164
CONST.	2014	APD/NH-52(48)	171

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



641+50.00

CUT 299
ROCK874
FILL22

SR-52

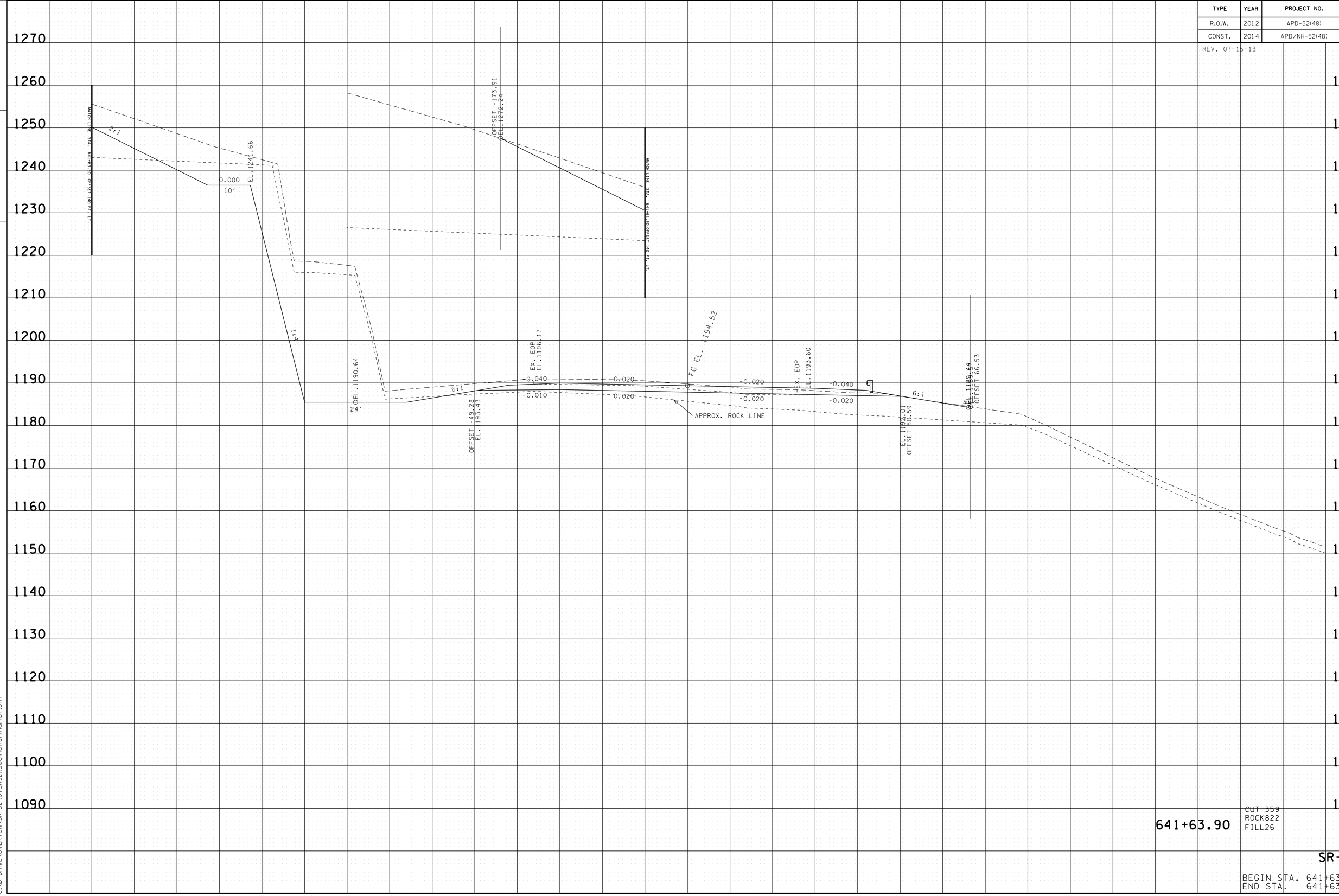
BEGIN STA. 641+50.00
END STA. 641+50.00

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	165
CONST.	2014	APD/NH-52(48)	172

REV. 07-15-13

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



641+63.90

CUT 359
ROCK822
FILL26

SR-52

BEGIN STA. 641+63.90
END STA. 641+63.90

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	166
CONST.	2014	APD/NH-52(48)	173

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1280
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

MATCH LINE STA. 642+00 OFFSET 140 FT LT.

0.000
10'
EL. 1240.00

1:4

EL. 1189.56
24'

6:1

OFFSET -49.28
EL. 1192.35

EX. EOP
EL. 1195.12

0.040
0.014
-0.010
0.017

EX. EOP
EL. 1194.01

FG EL. 1193.71

-0.020
-0.040
-0.020
-0.020

APPROX. ROCK LINE

6:1

4.

EL. 1190.15
OFFSET 54.81

EL. 1191.20
OFFSET 50.59

OFFSET -193.69
EL. 1280.54

2:1

MATCH LINE STA. 642+00 OFFSET 140 FT LT.

642+00.00

CUT 583
ROCK985
FILL20

SR-52

BEGIN STA. 642+00.00
END STA. 642+00.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	167
CONST.	2014	APD/NH-52(48)	174

REV. 07-15-13

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

1290 1280 1270 1260 1250 1240 1230 1220 1210 1200 1190 1180 1170 1160 1150 1140 1130 1120 1110

WATER LINE 16" ø 642+50.00 135.00 LT.

0.000
10'
EL.1237.70

1:4

OFFSET -202.62
EL.1282.80

2:1

WATER LINE 16" ø 642+50.00 135.00 LT.

OEL.1188.07
24'

6:1

EX. EOP
EL.1193.69

0.040
-0.010

-0.001
-0.001

OFFSET -49.28
EL.1190.86

EX. EOP
EL.1192.92

FG EL. 1192.59

-0.020
-0.020

-0.040
-0.020

6:1

APPROX. ROCK LINE

EL.1190.07
OFFSET 50.59

4:1

OEL.1186.47
OFFSET 65.02

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

642+50.00

CUT 753
ROCK1101
FILL63

SR-52

BEGIN STA. 642+50.00
END STA. 642+50.00

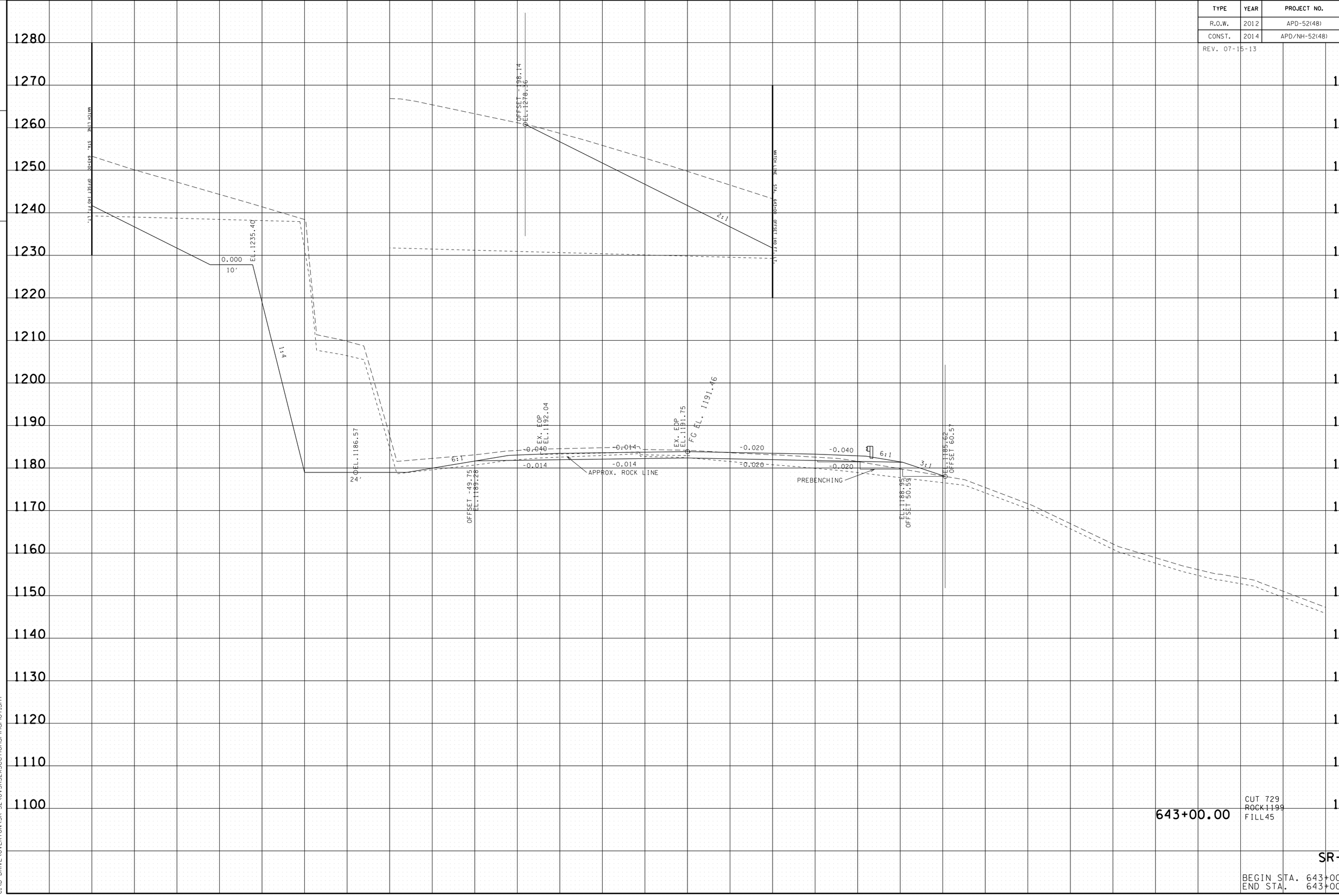
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	168
CONST.	2014	APD/NH-52(48)	175

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



643+00.00

CUT 729
ROCK1199
FILL45

SR-52

BEGIN STA. 643+00.00
END STA. 643+00.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	169
CONST.	2014	APD/NH-52(48)	176

REV. 07-15-13

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

MATCH LINE STA. 643+50 OFFSET 140 FT LT.

OFFSET 188.86
EL. 1271.54

MATCH LINE STA. 643+50 OFFSET 140 FT LT.

EL. 1233.10
0.000
10'
1:4
2:1
24'
OFFSET -50.59
EL. 1187.82
6:1
EX. EOP
EL. 1190.59
-0.040
-0.020
-0.020
EX. EOP
EL. 1190.65
FG EL. 1190.34
-0.020
-0.020
APPROX. ROCK LINE
-0.040
-0.020
PREBENCHING
6:1
3:1
EL. 187.82
OFFSET 50.59
EL. 184.36
OFFSET 60.97

643+50.00

CUT 695
ROCK1093
FILL50

SR-52

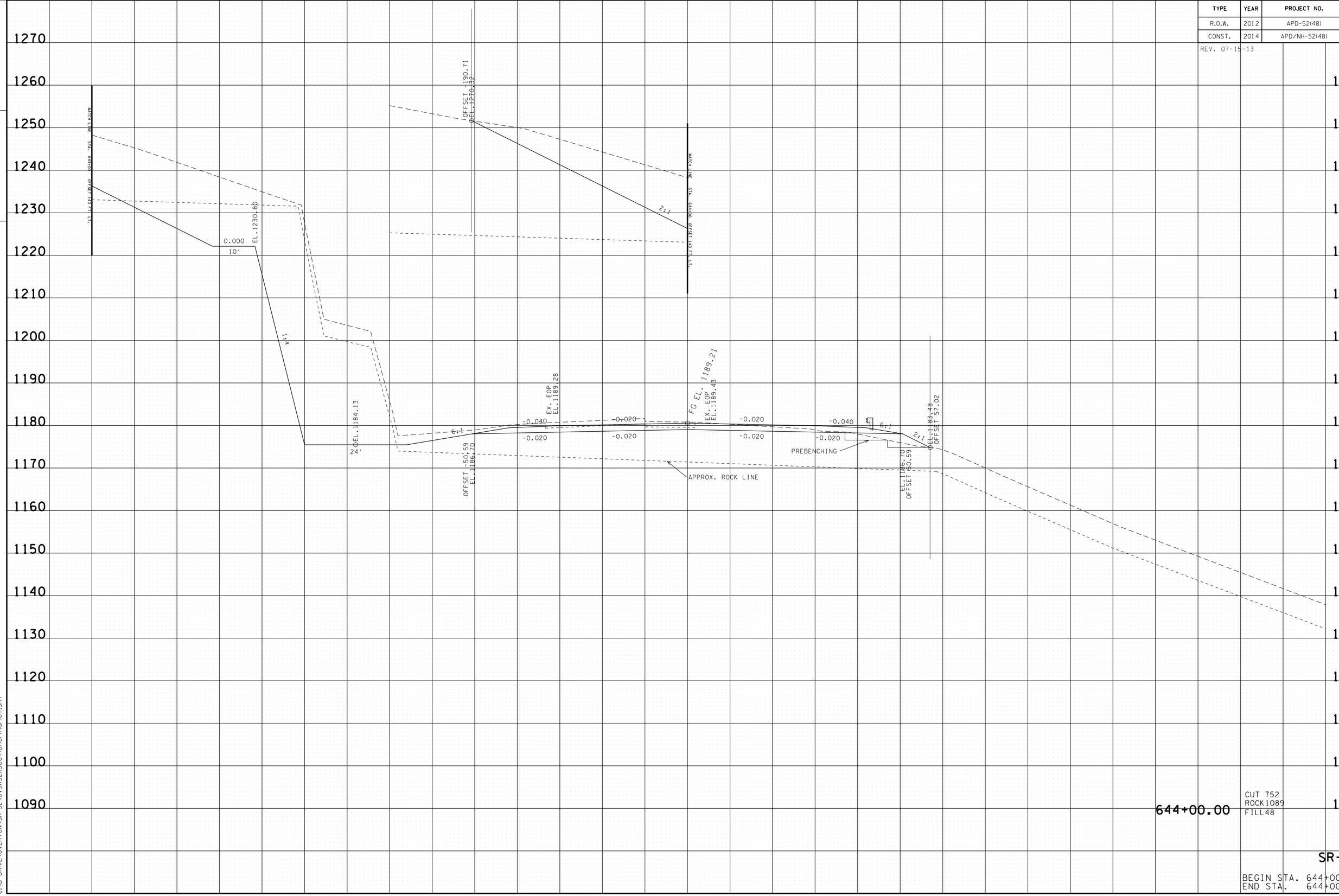
BEGIN STA. 643+50.00
END STA. 643+50.00

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSections\FinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	170
CONST.	2014	APD/NH-52(48)	177

REV. 07-15-13

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



644+00.00

CUT 752
ROCK1089
FILL48

SR-52

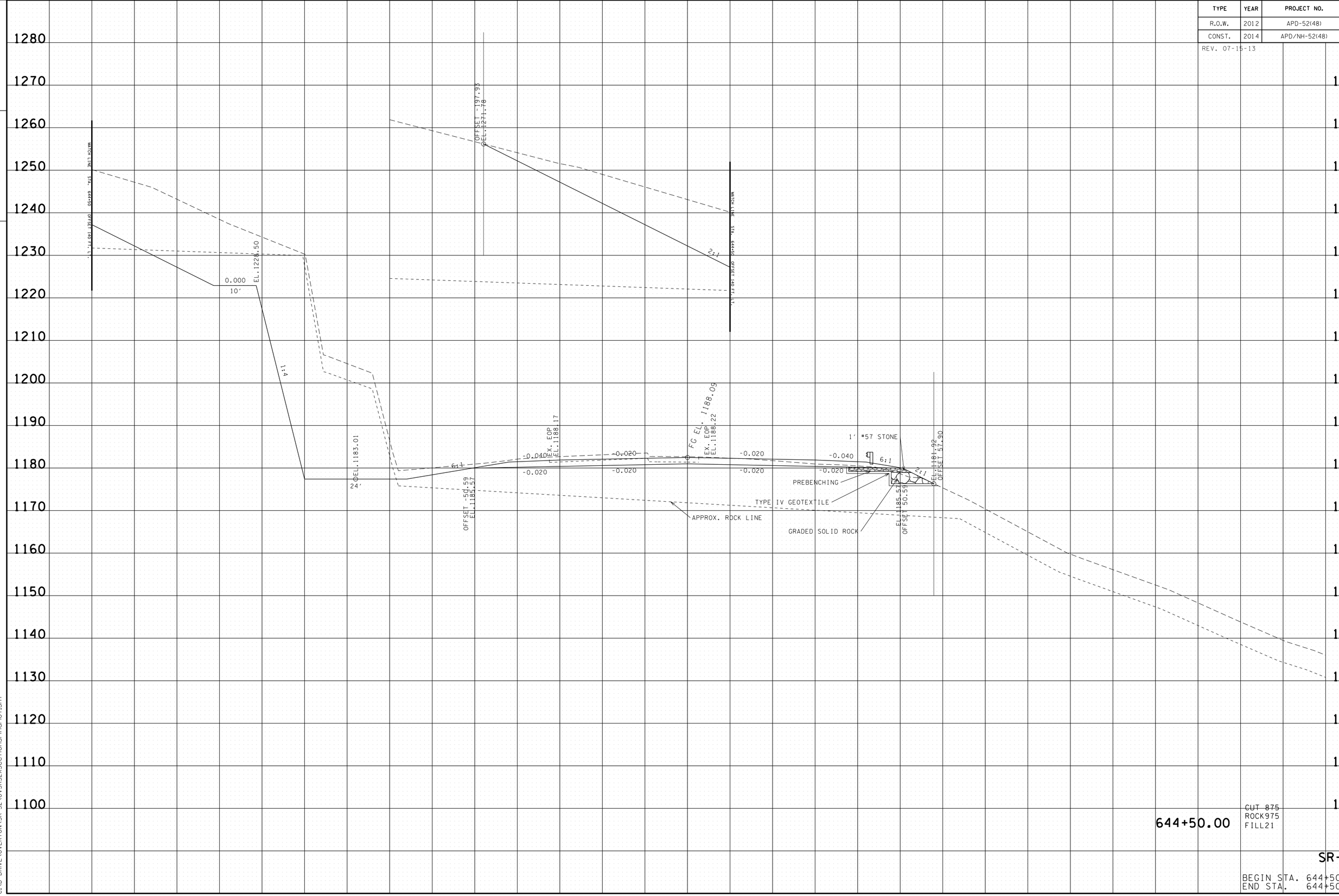
BEGIN STA. 644+00.00
END STA. 644+00.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSections$FinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	171
CONST.	2014	APD/NH-52(48)	178

REV. 07-15-13

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



644+50.00

CUT 875
ROCK975
FILL21

SR-52

BEGIN STA. 644+50.00
END STA. 644+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	172
CONST.	2014	APD/NH-52(48)	179

REV. 07-15-13

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

1290 1280 1270 1260 1250 1240 1230 1220 1210 1200 1190 1180 1170 1160 1150 1140 1130 1120 1110

MATCH LINE STA. 645+00 OFFSET 140' LT.

0.000
10'

EL. 1186.20

1:4

OFFSET -214.37
EL. 1177.85

2:1

MATCH LINE STA. 645+00 OFFSET 140' LT.

24'

EL. 1181.88

6:1

-0.040
-0.020

EX. EOP
EL. 1187.09

-0.020
-0.020

FG EL. 1186.96

EX. EOP
EL. 1187.23

-0.020
-0.020

-0.040
-0.020

6:1

1' #57 STONE

PREBENCHING

OFFSET -90.59
EL. 1184.45

APPROX. ROCK LINE

EL. 1184.45
OFFSET 50.59

TYPE IV GEOTEXTILE

2:1

GRADED SOLID ROCK

EL. 1153.19
OFFSET 113.12

645+00.00

CUT 1171
ROCK956
FILL232

SR-52

BEGIN STA. 645+00.00
END STA. 645+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

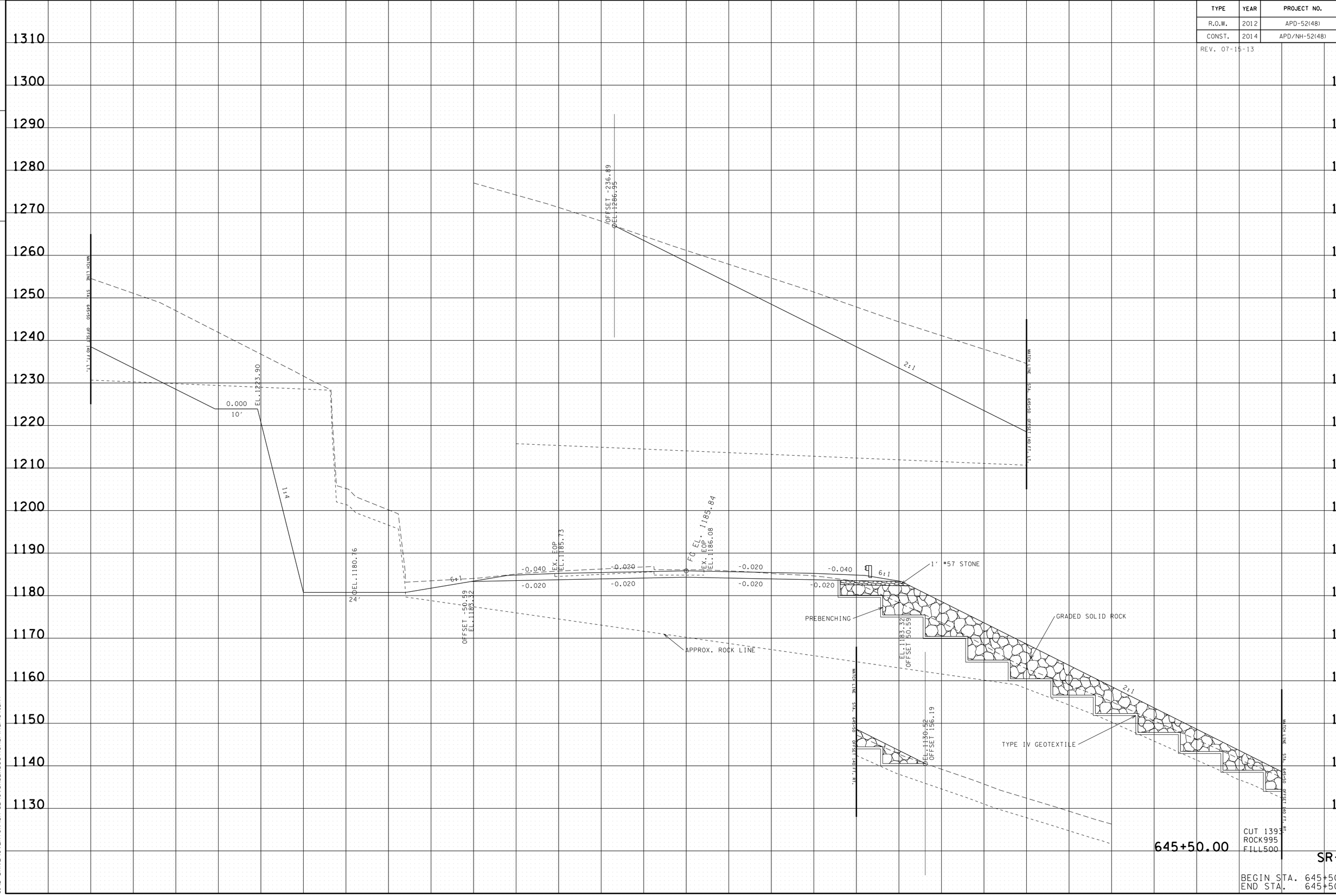
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	173
CONST.	2014	APD/NH-52(48)	180

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



CUT 1393
ROCK995
FILL500

645+50.00

SR-52

BEGIN STA. 645+50.00
END STA. 645+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	174
CONST.	2014	APD/NH-52(48)	181

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1300 1290 1280 1270 1260 1250 1240 1230 1220 1210 1200 1190 1180 1170 1160 1150 1140 1130 1120

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

MATCH LINE STA. 645+00 OFFSET 140 FT. LT.

EL. 1221.60

0.000

10'

1:4

EL. 1179.63

24'

6:1

-0.040

-0.020

-0.020

EX. EOP EL. 1184.65

OFFSET -50.59
EL. 1182.20

FG EL. 1184.71

EX. EOP EL. 1184.81

-0.010

-0.010

-0.040

6:1

1' #57 STONE

EL. 1182.72
OFFSET 49.28

PREBENCHING

GRADED SOLID ROCK

APPROX. ROCK LINE

OFFSET -245.45
EL. 1289.66

2:1

MATCH LINE STA. 646+00 OFFSET 140 FT. RT.

MATCH LINE STA. 646+00 OFFSET 140 FT. LT.

EL. 1120.14
OFFSET 174.45

TYPE IV GEOTEXTILE

2:1

MATCH LINE STA. 646+00 OFFSET 140 FT. RT.

CUT 1362
ROCK975
FILL885

646+00.00

SR-52

BEGIN STA. 646+00.00
END STA. 646+00.00

22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	175
CONST.	2014	APD/NH-52(48)	182

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1300 1290 1280 1270 1260 1250 1240 1230 1220 1210 1200 1190 1180 1170 1160 1150 1140 1130 1120

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

MATCH LINE STA. 646+50 OFFSET 140 FT. LT.

0.000
10'

EL. 1218.54

1:1

24'

EL. 1178.51

6:1

-0.040

-0.020

-0.020

EX. EOP EL. 1183.44

FG EL. 1183.59

EX. EOP EL. 1183.72

0.003

0.003

-0.040

6:1

-0.020

1' #57 STONE

PREBENCHING

OFFSET -227.28
EL. 1277.18

OFFSET -50.59
EL. 1181.07

APPROX. ROCK LINE

EL. 181.97
OFFSET 49.28

TYPE IV GEOTEXTILE

GRADED SOLID ROCK

2:1

MATCH LINE STA. 646+50 OFFSET 140 FT. RT.

EL. 1107.27
OFFSET 198.68

CUT 10
ROCK846
FILL1454

646+50.00

SR-52

BEGIN STA. 646+50.00
END STA. 646+50.00

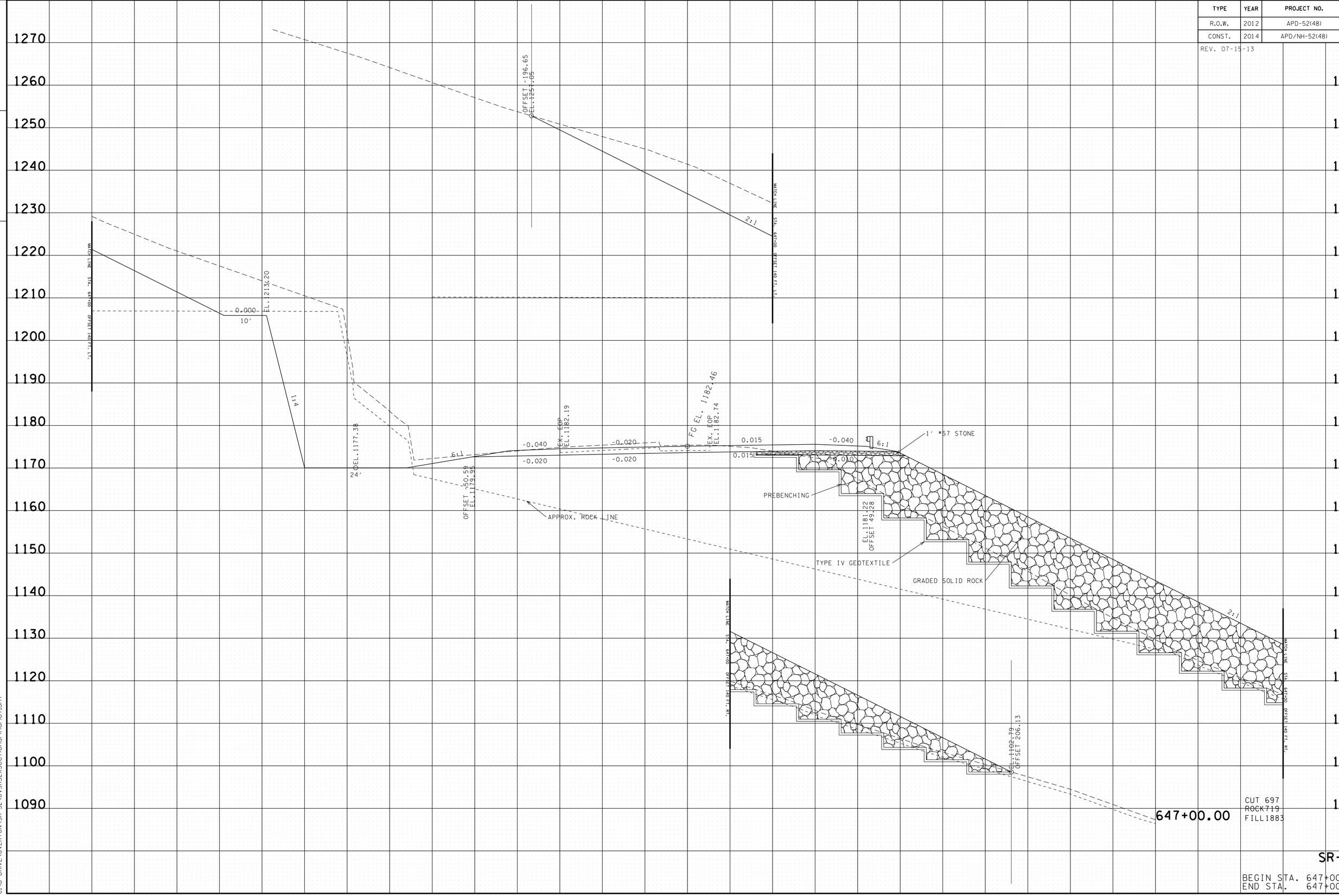
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	176
CONST.	2014	APD/NH-52(48)	183

REV. 07-15-13



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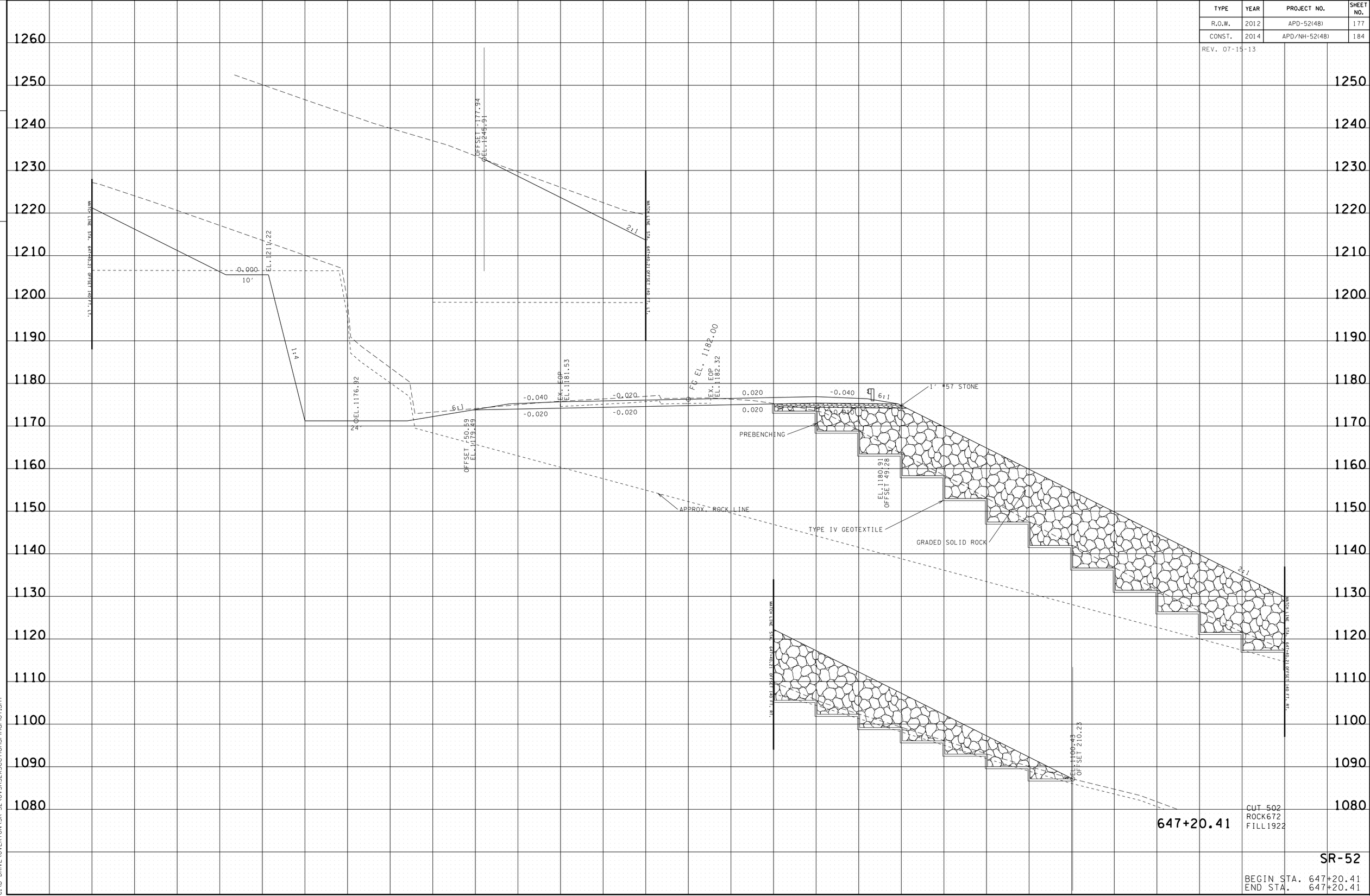
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	177
CONST.	2014	APD/NH-52(48)	184

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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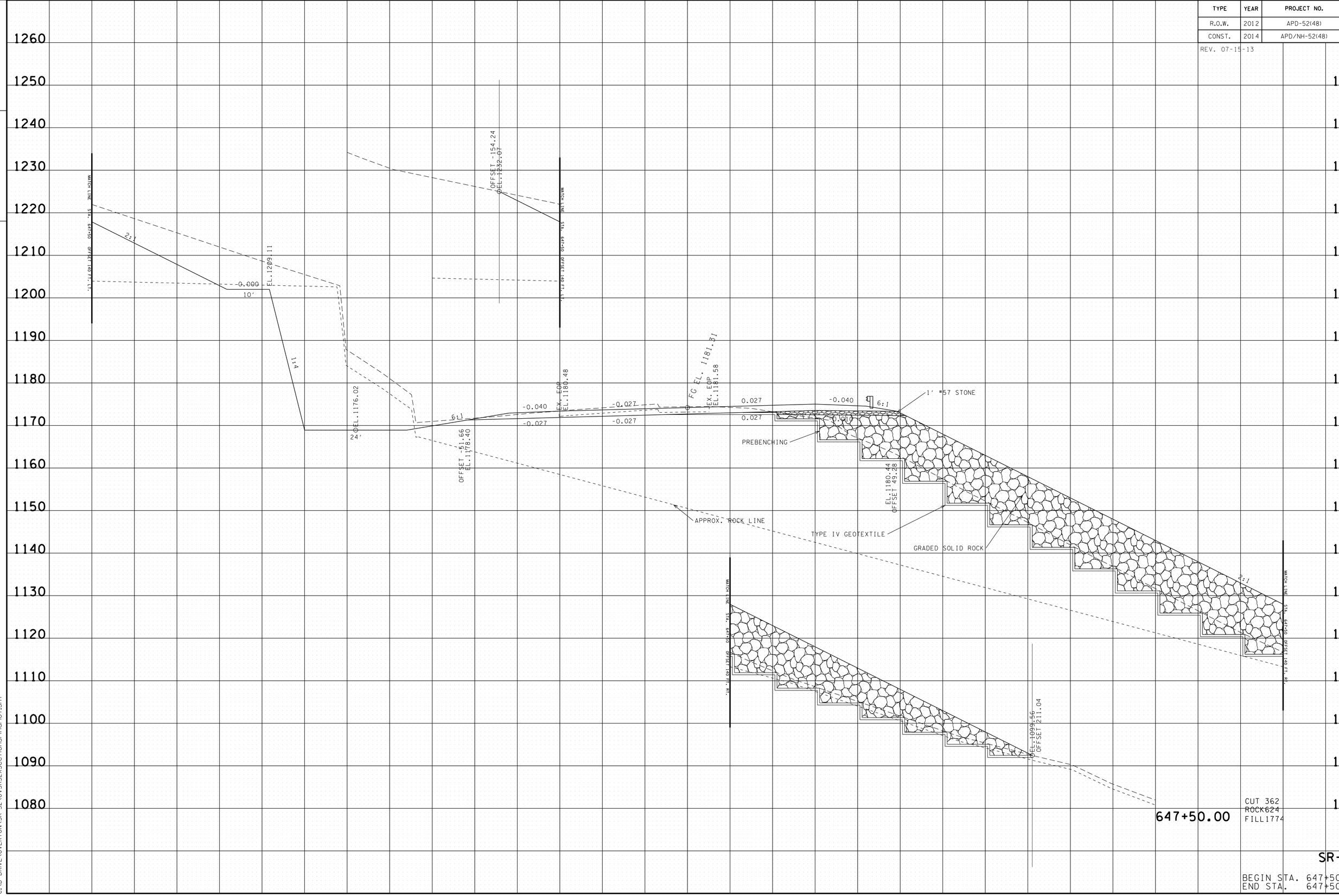
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	178
CONST.	2014	APD/NH-52(48)	185

REV. 07-15-13

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



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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	179
CONST.	2014	APD/NH-52(48)	186

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

OFFSET -140.37
EL. 1220.60

2:1

0.000

10'

EL. 1204.13

1:4

24'

EL. 1174.38

6:1

OFFSET -53.77
EL. 1176.42

-0.040

EX. EOP
EL. 1178.72

-0.040

-0.040

-0.040

FG EL. 1180.05

EX. EOP
EL. 1180.29

0.040

0.040

-0.030

6:1

1' #57 STONE

PREBENCHING

APPROX. ROCK LINE

EL. 1179.54
OFFSET 50.00

TYPE IV GEOTEXTILE

GRADED SOLID ROCK

2:1

MATCH LINE STA. 648+00 OFFSET 140 FT. RT.

MATCH LINE STA. 648+00 OFFSET 140 FT. RT.

EL. 1096.62
OFFSET 215.84

CUT 285
ROCK533
FILL1764

648+00.00

SR-52

BEGIN STA. 648+00.00
END STA. 648+00.00

22-JAN-2015 07:53
C:\D_DRIVE_OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	180
CONST.	2014	APD/NH-52(48)	187

REV. 07-15-13

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

OFFSET -132.21
EL. 1213.14
2:1
-0.000
10'
EL. 1200.56
1:1
24'
EL. 1172.46
6:1
-0.040
-0.052
EX. EOP
EL. 1177.12
-0.052
-0.052
FG EL. 1178.65
EX. EOP
EL. 1179.12
0.052
0.052
-0.018
6:1
1' #57 STONE
-0.010
PREBENCHING
OFFSET 53.67
EL. 1174.52
EL. 1178.50
OFFSET 50.92
APPROX. ROCK LINE
TYPE IV GEOTEXTILE
GRADED SOLID ROCK
MATCH LINE STA. 648+50 OFFSET 140 FT. RT.
2:1
EL. 1078.66
OFFSET 250.68
MATCH LINE STA. 648+50 OFFSET 140 FT. RT.

1260 1250 1240 1230 1220 1210 1200 1190 1180 1170 1160 1150 1140 1130 1120 1110 1100 1090 1080

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

CUT 204
ROCK583
FILL2151

648+50.00

SR-52

BEGIN STA. 648+50.00
END STA. 648+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	181
CONST.	2014	APD/NH-52(48)	188

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

OFFSET -145.88
EL. 1218.30

2:1

-0.000

10'

EL. 1198.94

1:4

24'

EL. 1170.40

6:1

-0.040

-0.064

-0.064

-0.064

-0.064

EX. EOP
EL. 1175.31

FG EL. 1177.11

EX. EOP
EL. 1177.65

0.064

0.064

-0.006

6:1

1 "57 STONE

-0.010

PREBENCHING

OFFSET -53.49
EL. 1172.49

APPROX. ROCK LINE

EL. 1177.32
OFFSET 51.87

TYPE IV GEOTEXTILE

GRADED SOLID ROCK

WATER LINE
STA. 649+00 OFFSET 140.71 Rt.

2:1

WATER LINE
STA. 649+00 OFFSET 140.71 Rt.

EL. 1079.31
OFFSET 246.69

649+00.00

CUT 277
ROCK605
FILL2386

SR-52

BEGIN STA. 649+00.00
END STA. 649+00.00

1260 1250 1240 1230 1220 1210 1200 1190 1180 1170 1160 1150 1140 1130 1120 1110 1100 1090 1080

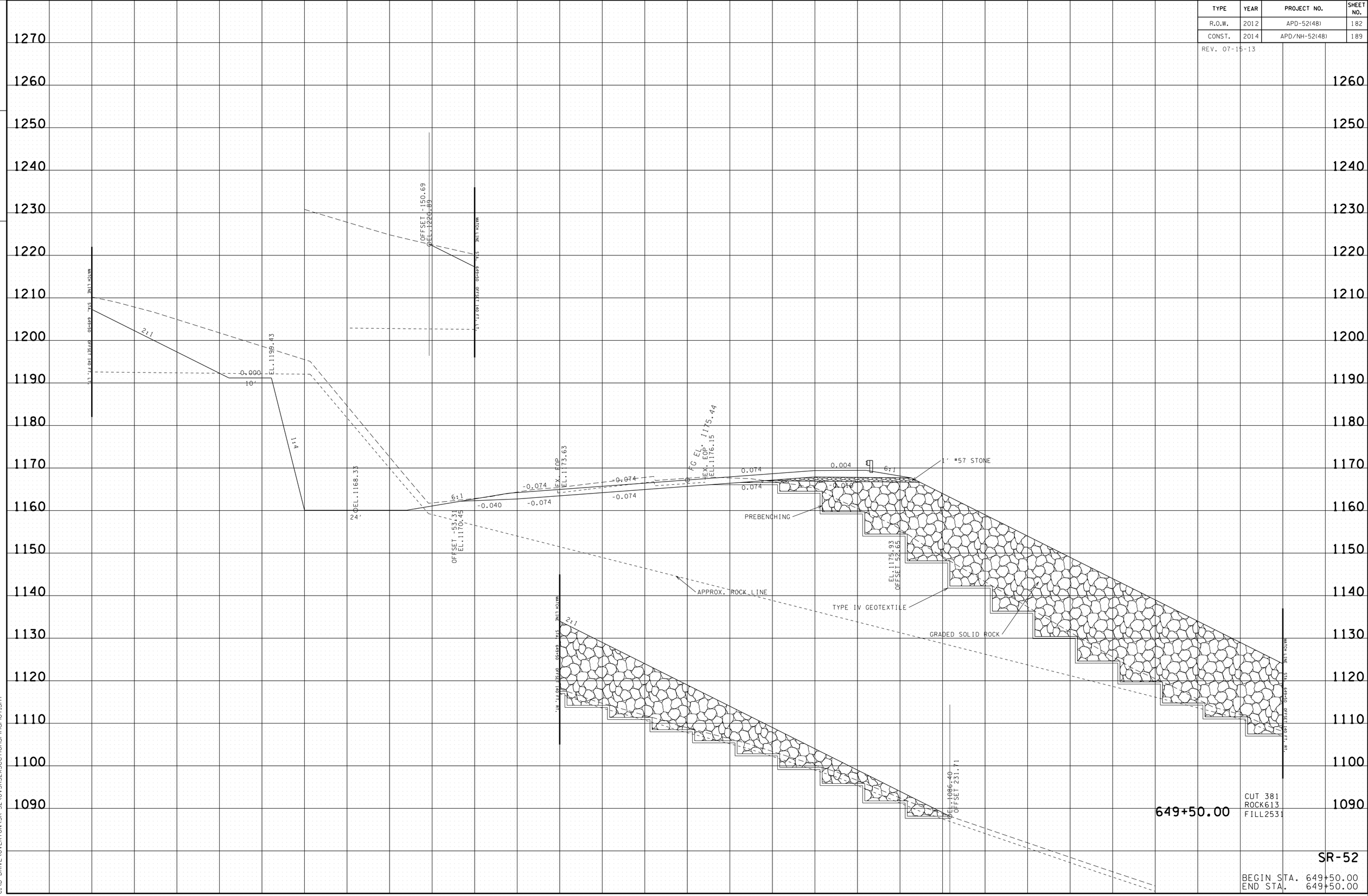
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	182
CONST.	2014	APD/NH-52(48)	189

REV. 07-15-13

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



649+50.00

CUT 381
ROCK613
FILL2531

SR-52

BEGIN STA. 649+50.00
END STA. 649+50.00

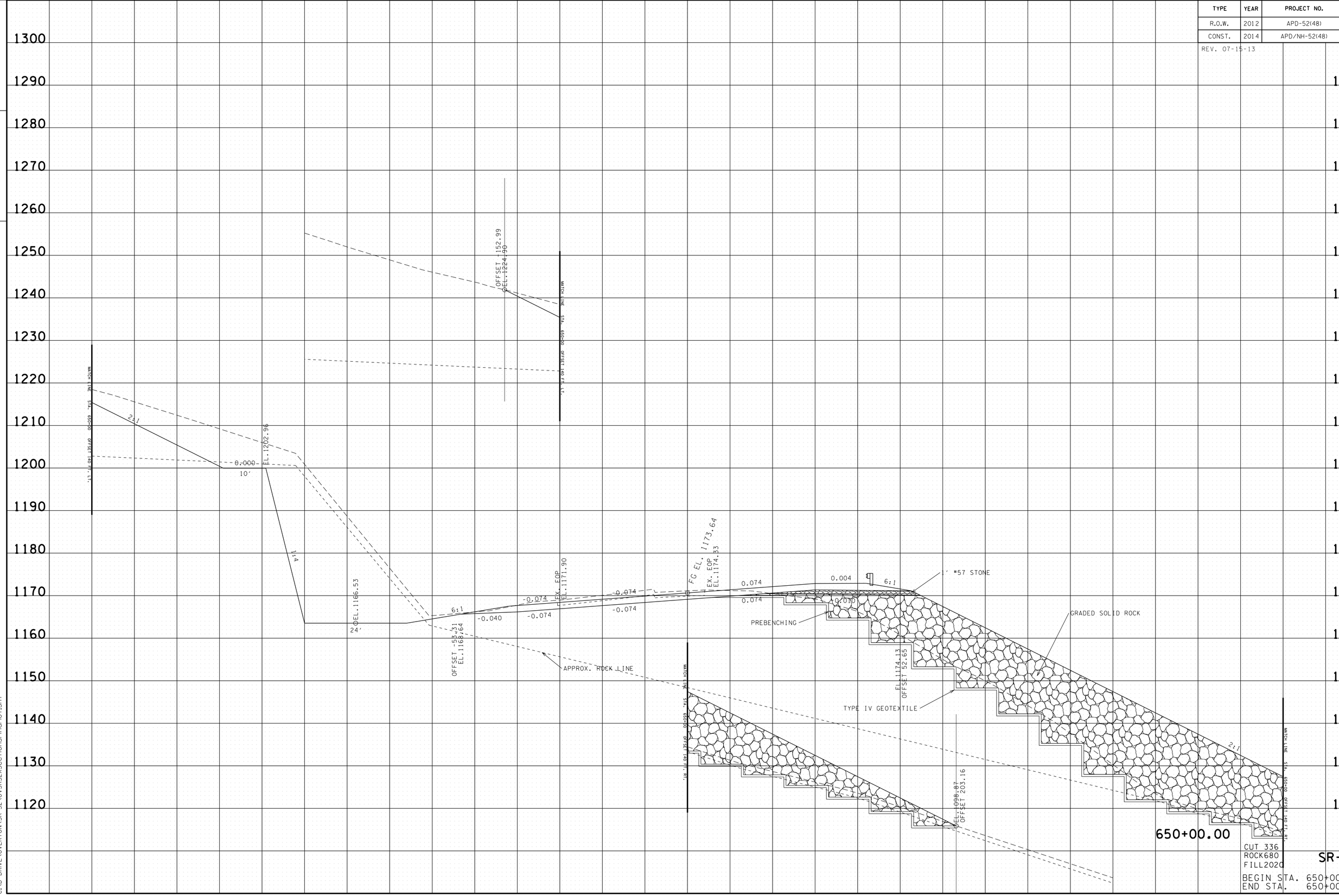
22-JAN-2015 07:53
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	183
CONST.	2014	APD/NH-52(48)	190

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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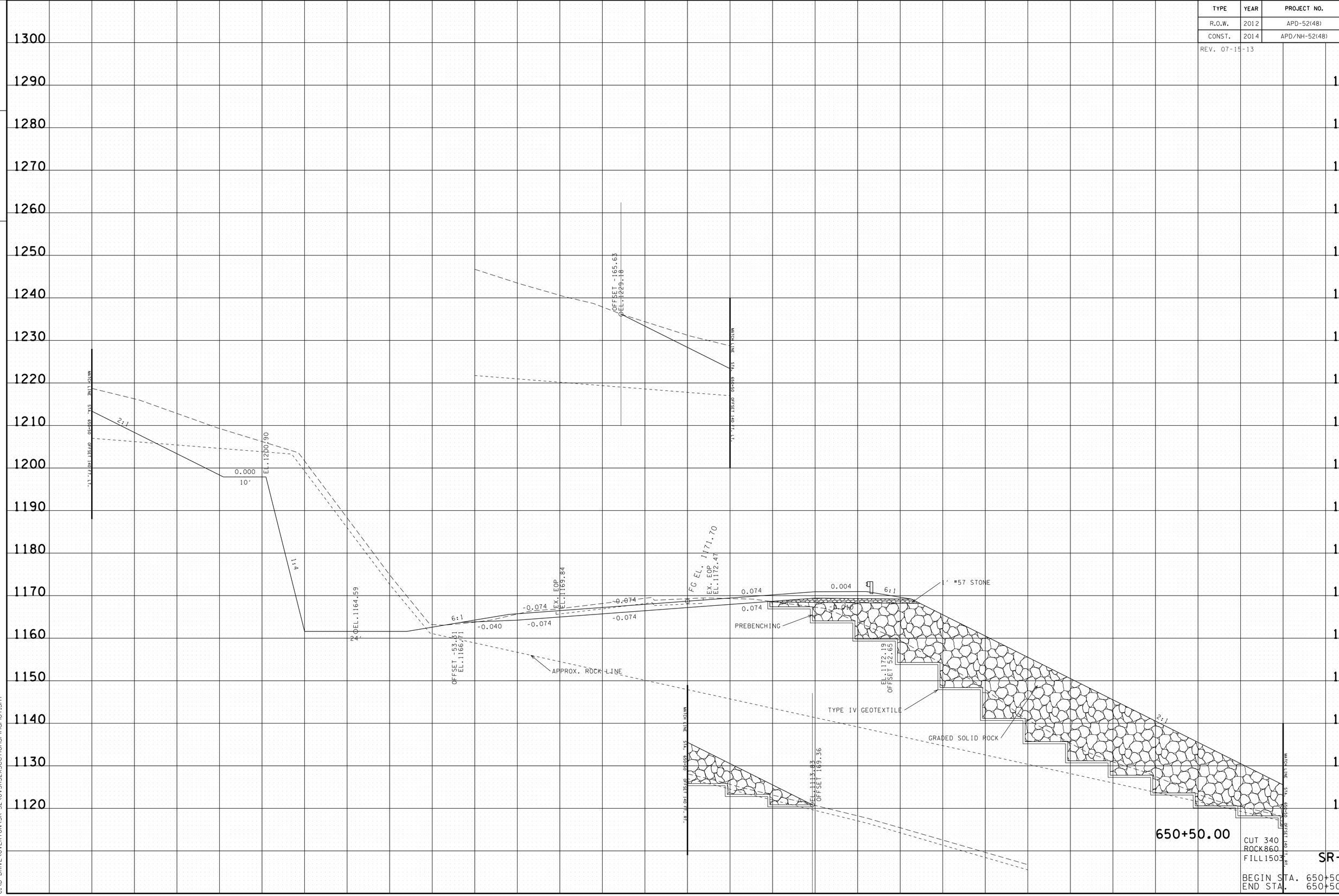
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	184
CONST.	2014	APD/NH-52(48)	191

REV. 07-15-13

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



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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	185
CONST.	2014	APD/NH-52(48)	192

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

OFFSET -190.62
EL. 1239.41

2:1

MATCH LINE STA. 651+00 OFFSET 140' FT. LT.

MATCH LINE STA. 651+00 OFFSET 140' FT. LT.

EL. 1198.60

0.000

10'

1:1

EL. 1162.61

24'

6:1

-0.040

-0.074

-0.074

-0.074

-0.074

EX. EOP EL. 1167.98

FG EL. 1169.71

EX. EOP EL. 1170.30

0.074

0.074

0.004

6:1

-0.010

6' #57 STONE

PREBENCHING

OFFSET -53.51
EL. 1164.72

EL. 1170.21
OFFSET 52.65

APPROX. ROCK LINE

TYPE IV GEOTEXTILE

GRADED SOLID ROCK

2:1

EL. 1126.28
OFFSET 140.51

CUT 728
ROCK896
FILL968

651+00.00

SR-52

BEGIN STA. 651+00.00
END STA. 651+00.00

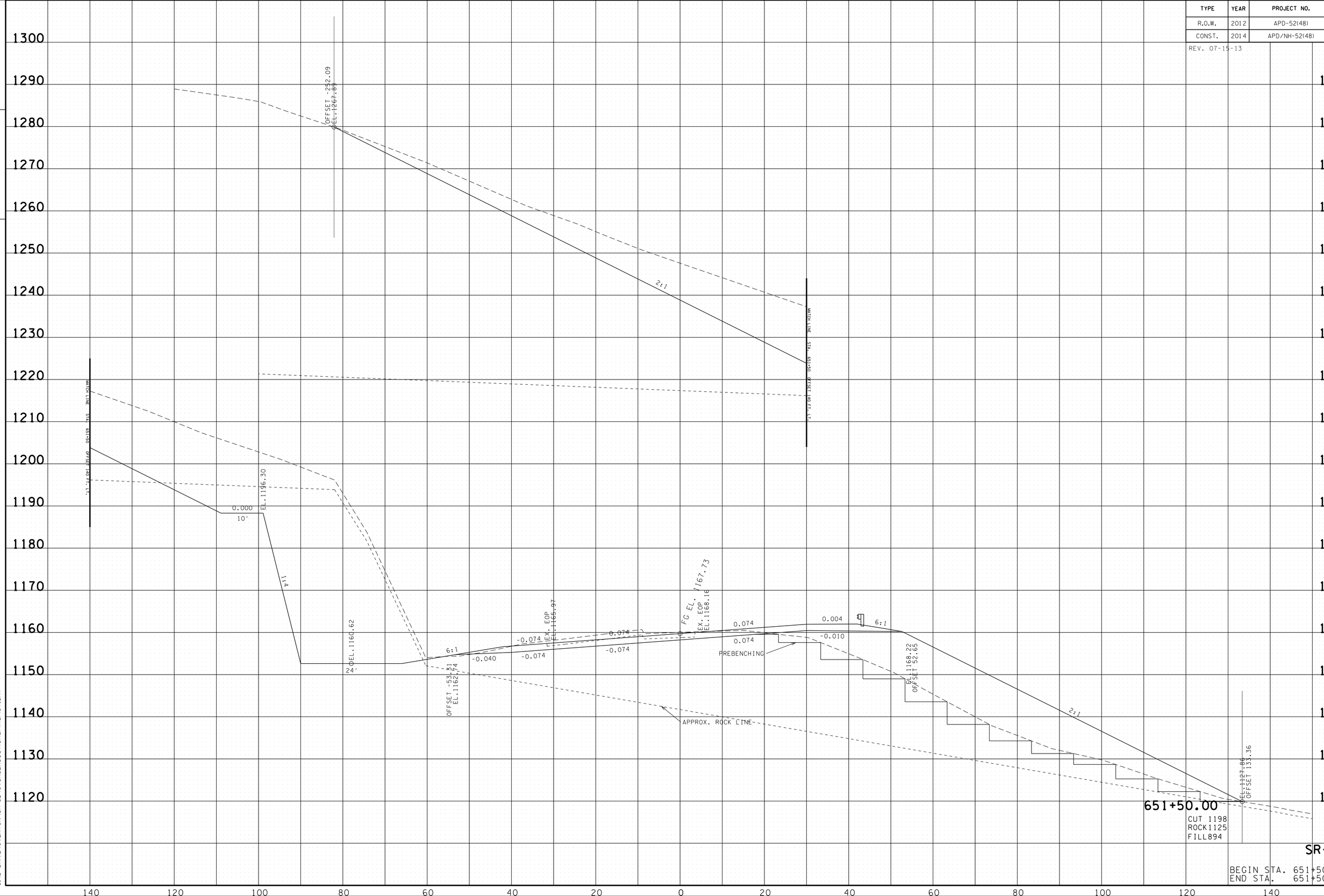
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	186
CONST.	2014	APD/NH-52(48)	193

REV. 07-15-13



SR-52

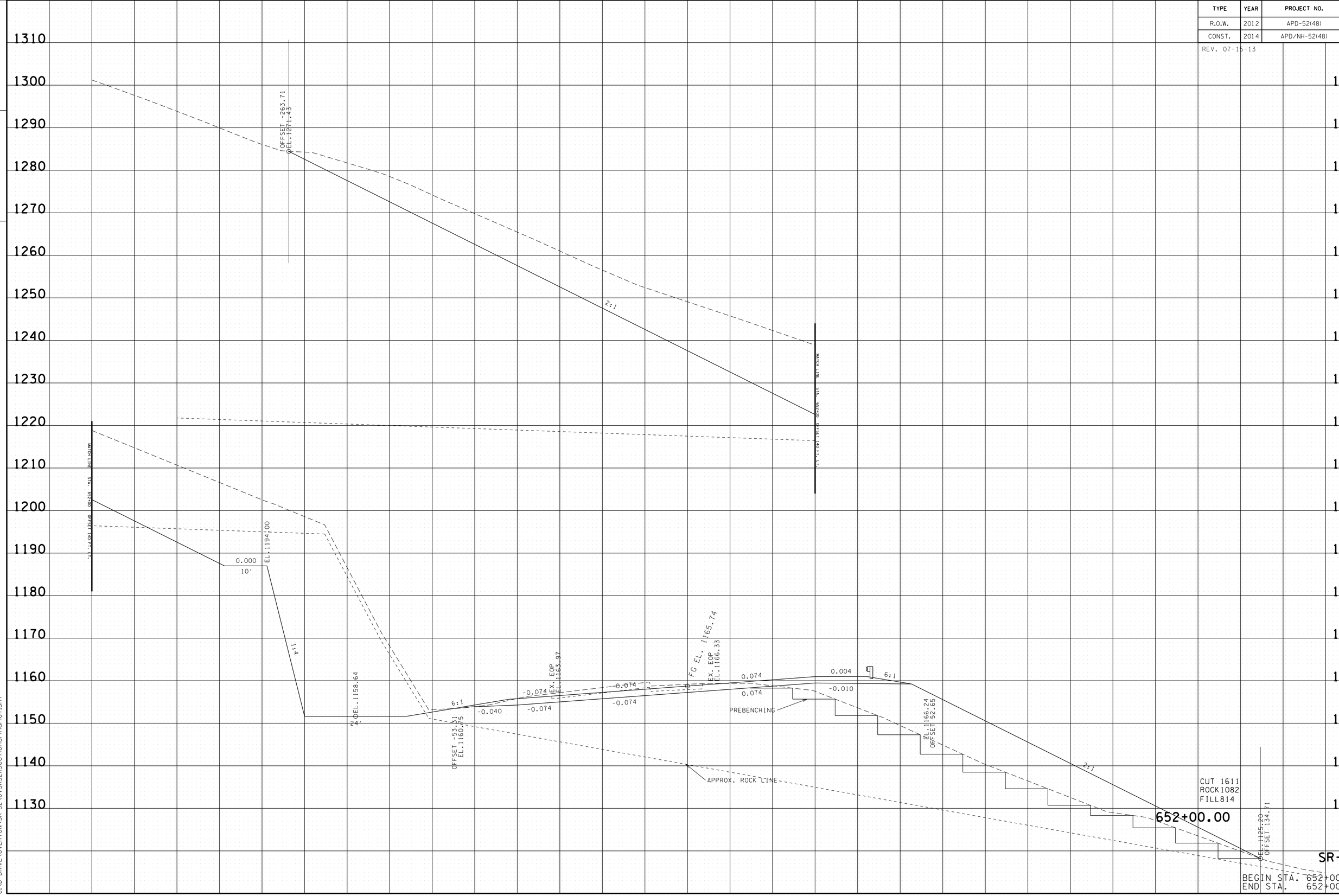
BEGIN STA. 651+50.00
END STA. 651+50.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	187
CONST.	2014	APD/NH-52(48)	194

REV. 07-15-13

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



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C:\ND DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	188
CONST.	2014	APD/NH-52(48)	195

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

1280 1270 1260 1250 1240 1230 1220 1210 1200 1190 1180 1170 1160 1150 1140 1130 1120 1110 1100

OFFSET -269.74
EL. 1212.19

MATCH LINE STA. 652+50 OFFSET 140 RT.

EL.1191.70

0.000
10'

1:1

2:1

MATCH LINE STA. 652+50 OFFSET 140 RT.

EL.1156.65
24'

6:1

-0.040

-0.074

-0.074

-0.074

-0.074

-0.074

EX. EOP
EL.1162.04

FG EL. 1163.76
EX. EOP
EL.1164.18

0.074

0.074

0.004

6:1

-0.010

PREBENCHING

EL. 1164.25
OFFSET 52.65

OFFSET -53.31
EL.1158.77

APPROX. ROCK LINE

2:1

OEL.1121.10
OFFSET 136.96

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

652+50.00

CUT 1127
ROCK1405
FILL873

SR-52

BEGIN STA. 652+50.00
END STA. 652+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	189
CONST.	2014	APD/NH-52(48)	196

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

OFFSET -266.66
@EL.1268.39

MATCH LINE STA. 653+00
OFFSET 140 FT. LT.

0.000
10'

EL.1189.40

1:4

@EL.1154.67
24'

OFFSET -53.31
EL. 1156.78

6:1

-0.040

-0.074

-0.074

EX. EOF
EL.1160.26

-0.074

-0.074

FG EL. 1161.77

EX. EOF
EL.1162.28

0.074

0.074

0.004

6:1

-0.010

PREBENCHING

APPROX. ROCK LINE

2:1

@EL.1162.27
OFFSET 52.65

MATCH LINE STA. 653+00
OFFSET 140 FT. LT.

2:1

@EL.1122.89
OFFSET 131.39

CUT 833
ROCK1711
FILL866

653+00.00

SR-52

BEGIN STA. 653+00.00
END STA. 653+00.00

22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	190
CONST.	2014	APD/NH-52(48)	197

REV. 07-15-13

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

1270
1260
1250
1240
1230
1220
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100

OFFSET -242.57
CEL.1254.08

2:1

WATCH LINE
STA. 655+95
OFFSET 161 FT. LT.

WATCH LINE
STA. 653+50
OFFSET 140 FT. LT.

EL.1187.10

0.000
10'

1:4

24'

CEL.1152.68

6:1

-0.040

-0.074

-0.074

EX. EOP
EL.1158.20

-0.074

-0.074

FG EL. 1159.79

EX. EOP
EL.1160.45

0.074

0.074

0.004

6:1

-0.010

PREBENCHING

EL.1160.28
OFFSET 52.65

OFFSET -53.31
EL.1154.80

APPROX. ROCK LINE

2:1

CEL.1121.23
OFFSET 130.76

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

CUT 397
ROCK1933
FILL843

653+50.00

SR-52

BEGIN STA. 653+50.00
END STA. 653+50.00

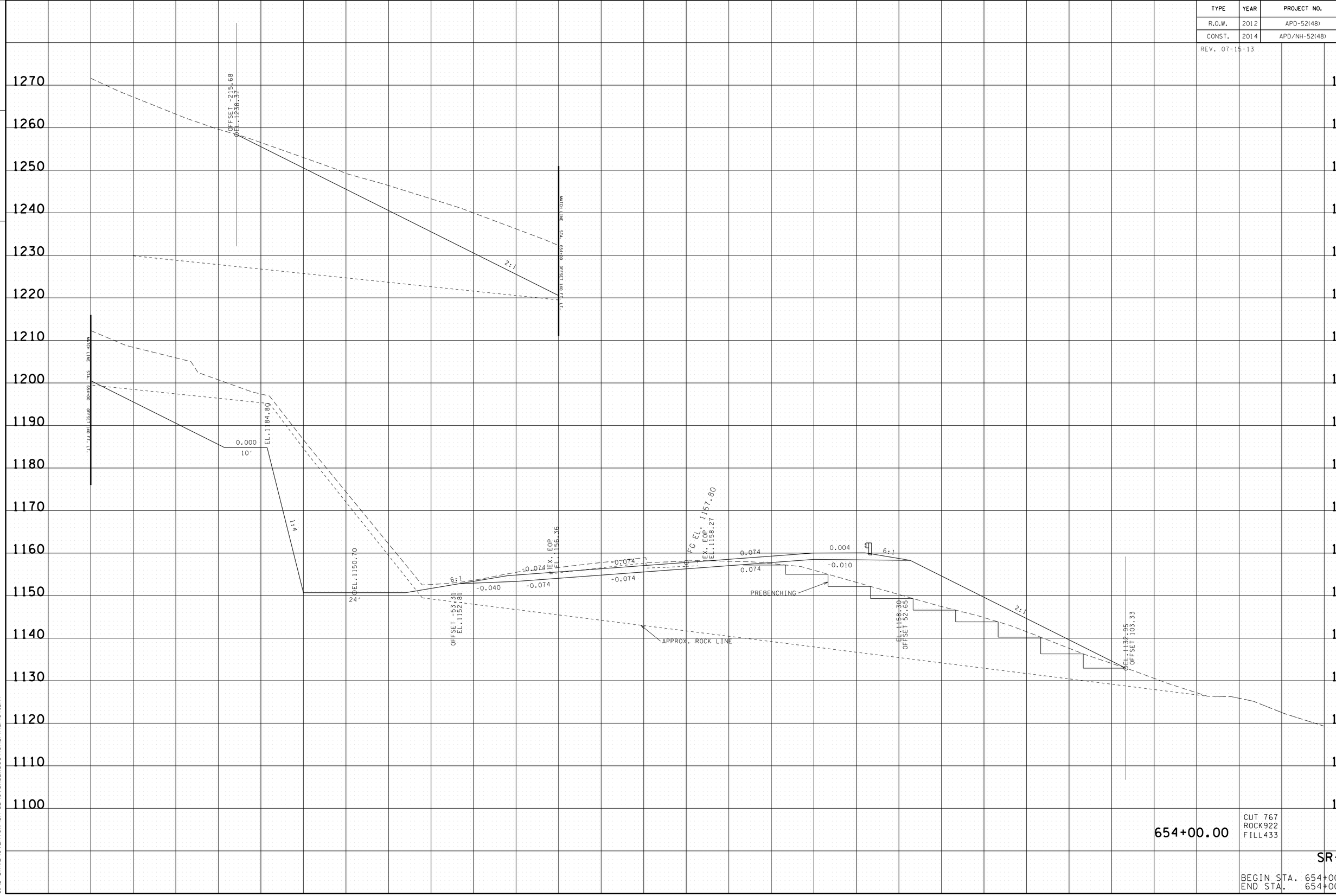
22-JAN-2015 07:53
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	191
CONST.	2014	APD/NH-52(48)	198

REV. 07-15-13



654+00.00

CUT 767
ROCK922
FILL433

SR-52

BEGIN STA. 654+00.00
END STA. 654+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	192
CONST.	2014	APD/NH-52(48)	199

REV. 07-15-13

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

OFFSET -208.80
EL.1232.68

2:1

WATER LINE
STA. 654+50
OFFSET 149 FT. LT.

WATCH LINE
STA. 654+50
OFFSET 149 FT. LT.

EL.1182.50

0.000
10'

1:4

EL.1148.71
24'

6:1

-0.040

-0.074

EX. EOP
EL.1153.94

-0.074

-0.074

-0.074

FG EL. 1155.82

EX. EOP
EL.1156.36

0.074

0.074

0.004

6:1

-0.010

PREBENCHING

2:1

EL.1144.60
OFFSET 76.07

EL.1156.31
OFFSET 52.65

OFFSET -53.31
EL.1150.83

APPROX. ROCK LINE

654+50.00

CUT 377
ROCK1117
FILL240

SR-52

BEGIN STA. 654+50.00
END STA. 654+50.00

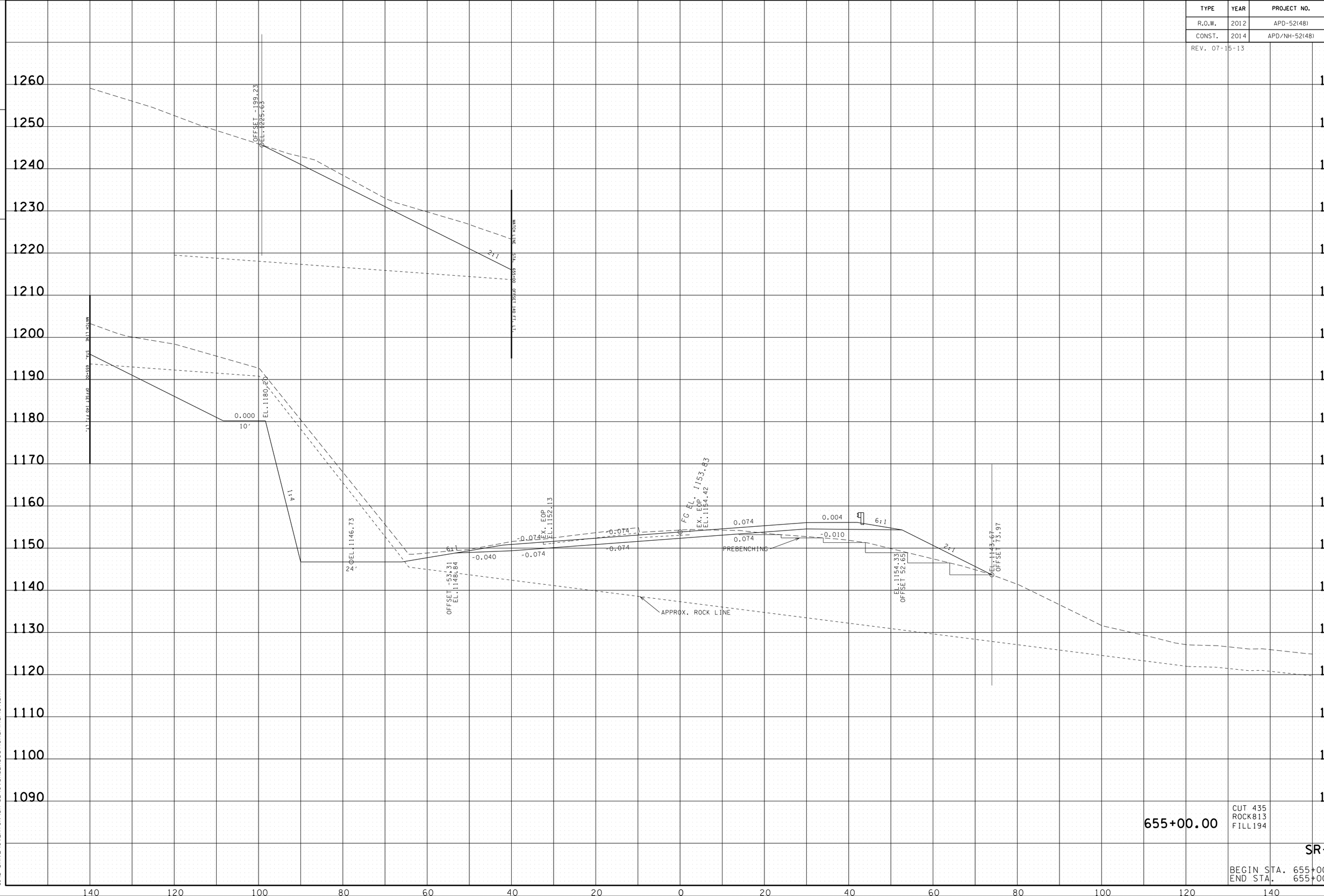
22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	193
CONST.	2014	APD/NH-52(48)	200

REV. 07-15-13



655+00.00

CUT 435
ROCK813
FILL194

SR-52

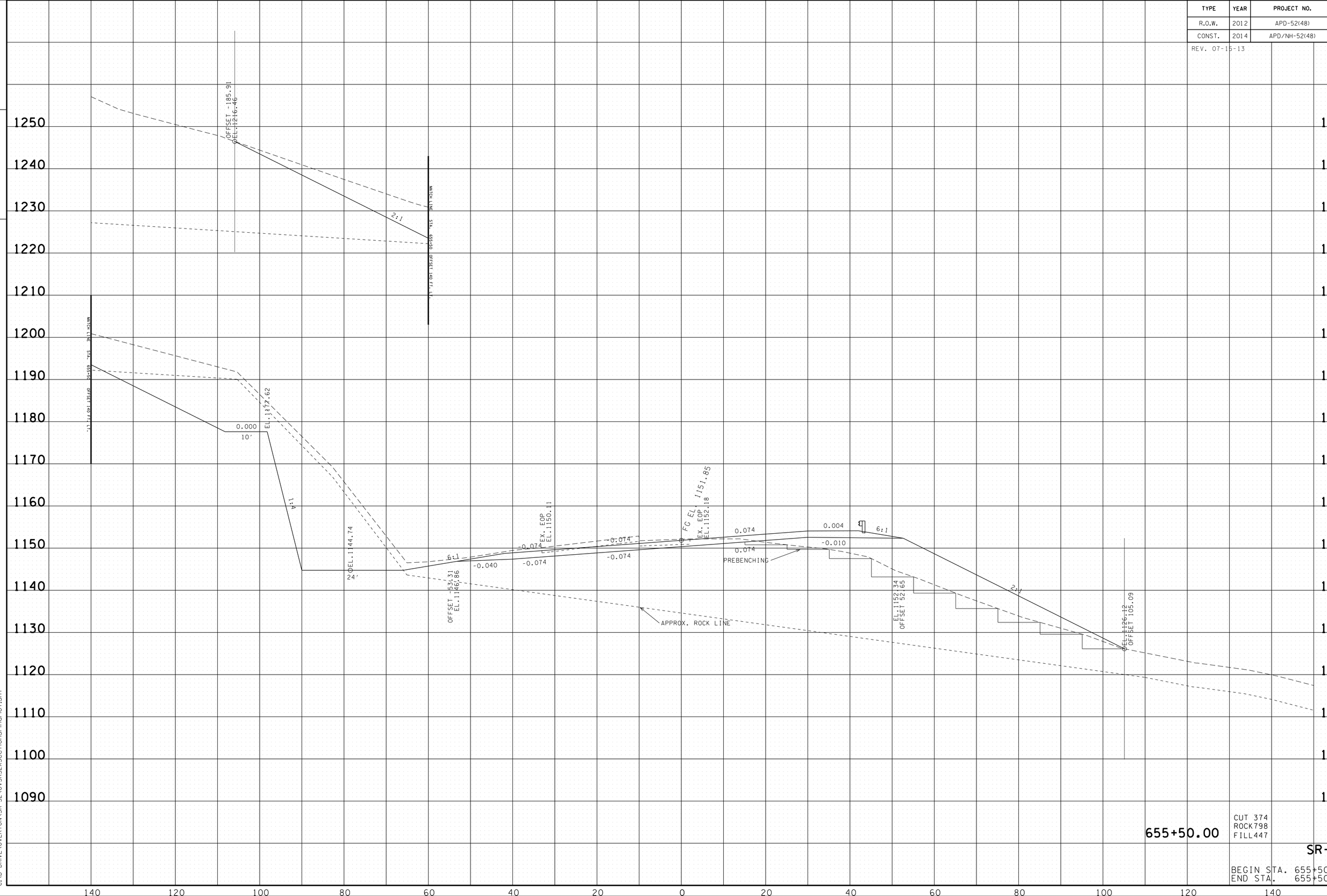
BEGIN STA. 655+00.00
END STA. 655+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	194
CONST.	2014	APD/NH-52(48)	201

REV. 07-15-13

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



655+50.00

CUT 374
ROCK798
FILL447

SR-52

BEGIN STA. 655+50.00
END STA. 655+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	195
CONST.	2014	APD/NH-52(48)	202

REV. 07-15-13

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

OFFSET 259.30
OEL. 1236.77

MATCH LINE STA. 656+00 OFFSET 140 FT. LT.

MATCH LINE STA. 656+00 OFFSET 140 FT. LT.

2:1

EL. 1152.31

0.000
10'
1:1
12'
OEL. 1142.76

6:1

-0.040

-0.074

-0.074

EX. EOP EL. 1148.12

-0.074

-0.074

EX. EOP EL. 1150.41

FG EL. 1149.86

0.074

0.074

PREBENCHING

0.004

6:1

-0.010

OFFSET -53.31
EL. 1144.87

APPROX. ROCK LINE

EL. 1150.36
OFFSET 52.65

2:1

OEL. 1125.06
OFFSET 103.24

656+00.00

CUT 1804
ROCK853
FILL427

SR-52

BEGIN STA. 656+00.00
END STA. 656+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	196
CONST.	2014	APD/NH-52(48)	203

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

OFFSET -231.60
EL. 1223.57

2:1

WATER LINE STA. 656+90 OFFSET 140 FT. LT.

WATER LINE STA. 656+50 OFFSET 135 FT. LT.

EL. 1140.77

6:1

-0.040

-0.074

EX. EOP
EL. 1145.88

-0.074

-0.074

EX. EOP
EL. 1148.33

FG EL. 1147.88

0.074

0.004

6:1

-0.010

0.074

PREBENCHING

-0.074

OFFSET -53.31
EL. 1142.89

APPROX. ROCK LINE

EL. 1148.37
OFFSET 52.65

2:1

EL. 1121.20
OFFSET 196.99

656+50.00

CUT 634
ROCK992
FILL534

SR-52

BEGIN STA. 656+50.00
END STA. 656+50.00

1240 1230 1220 1210 1200 1190 1180 1170 1160 1150 1140 1130 1120 1110 1100 1090 1080 1070

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

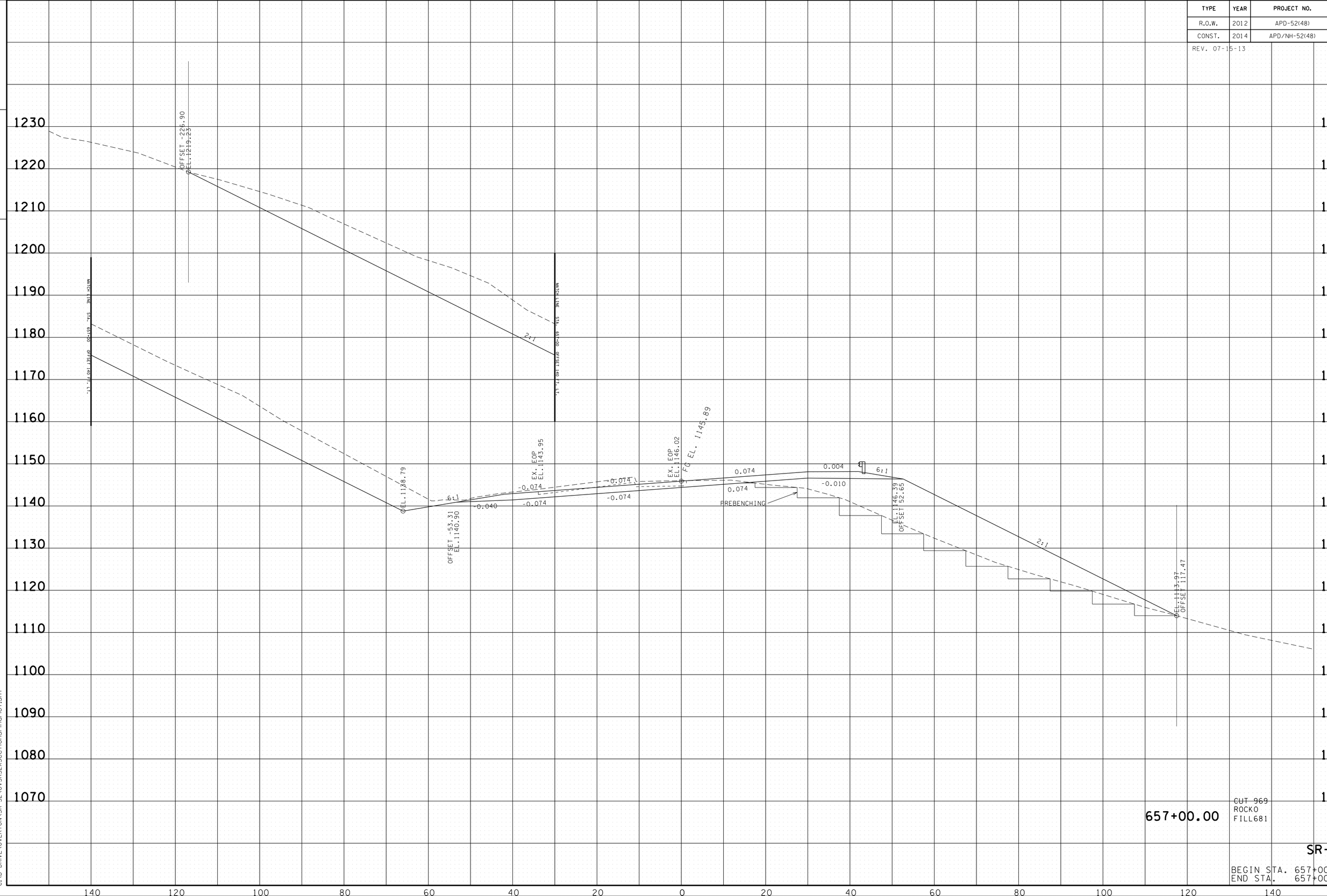
22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	197
CONST.	2014	APD/NH-52(48)	204

REV. 07-15-13



657+00.00

CUT 969
ROCKO
FILL681

SR-52

BEGIN STA. 657+00.00
END STA. 657+00.00

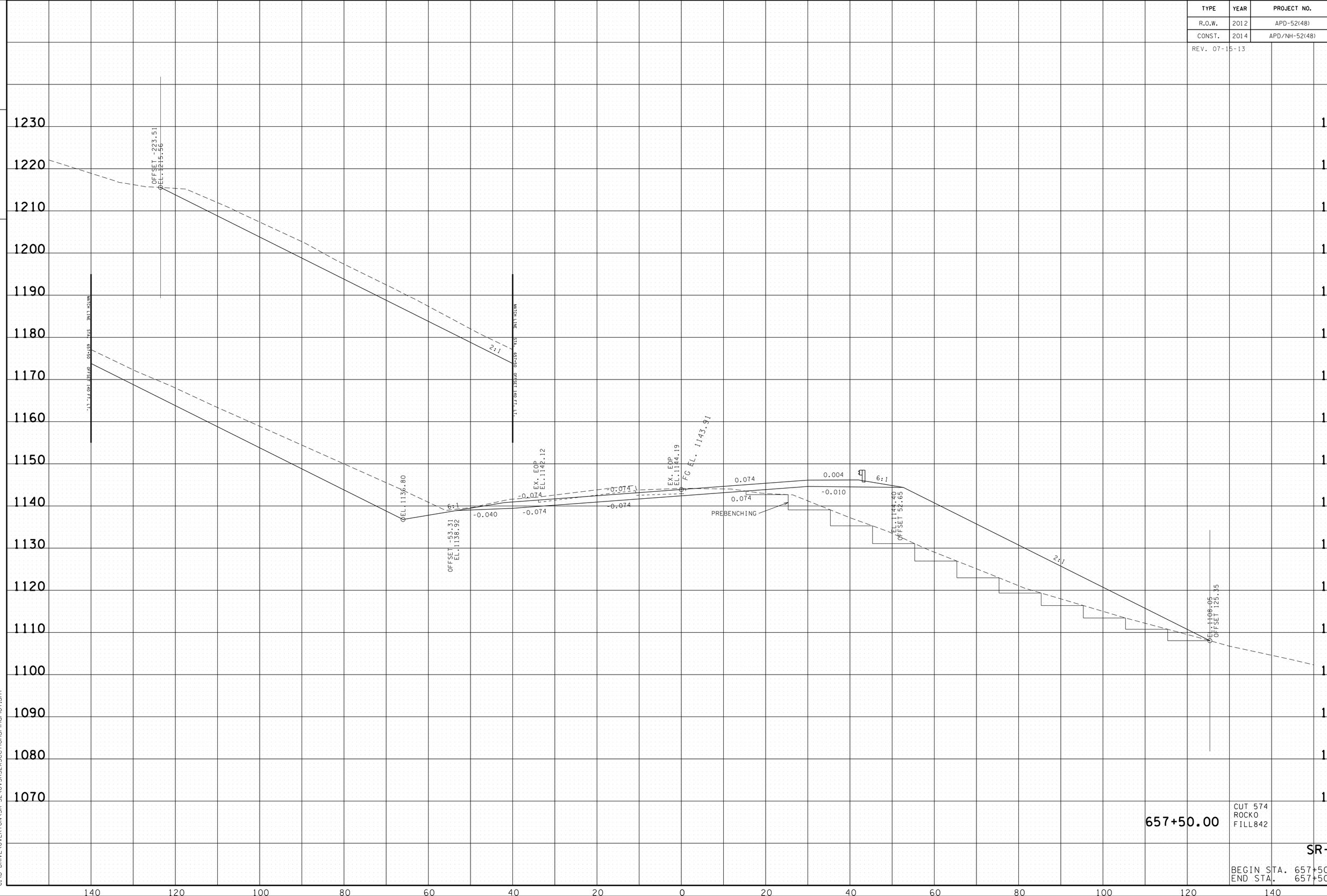
22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	198
CONST.	2014	APD/NH-52(48)	205

REV. 07-15-13



657+50.00

CUT 574
ROCKO
FILL842

SR-52

BEGIN STA. 657+50.00
END STA. 657+50.00

22-JAN-2015 07:54
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	199
CONST.	2014	APD/NH-52(48)	206

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1220
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070

OFFSET -207.58
EL.1205.61

MATCH LINE STA. 658+00 OFFSET 140 FT. LT.

2:1

MATCH LINE STA. 658+00 OFFSET 140 FT. LT.

EL. 1134.82

6:1

OFFSET -53.31
EL.1136.93

-0.040

EX. EOP
EL.1140.49

-0.074

-0.074

-0.074

EX. EOP
EL.1142.17

FG EL. 1141.92

0.074

0.074

PREBENCHING

0.004

-0.010

6:1

EL.1142.42
OFFSET 52.65

2:1

EL.1095.46
OFFSET 146.55

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

658+00.00

CUT 398
ROCKO
FILL1235

SR-52

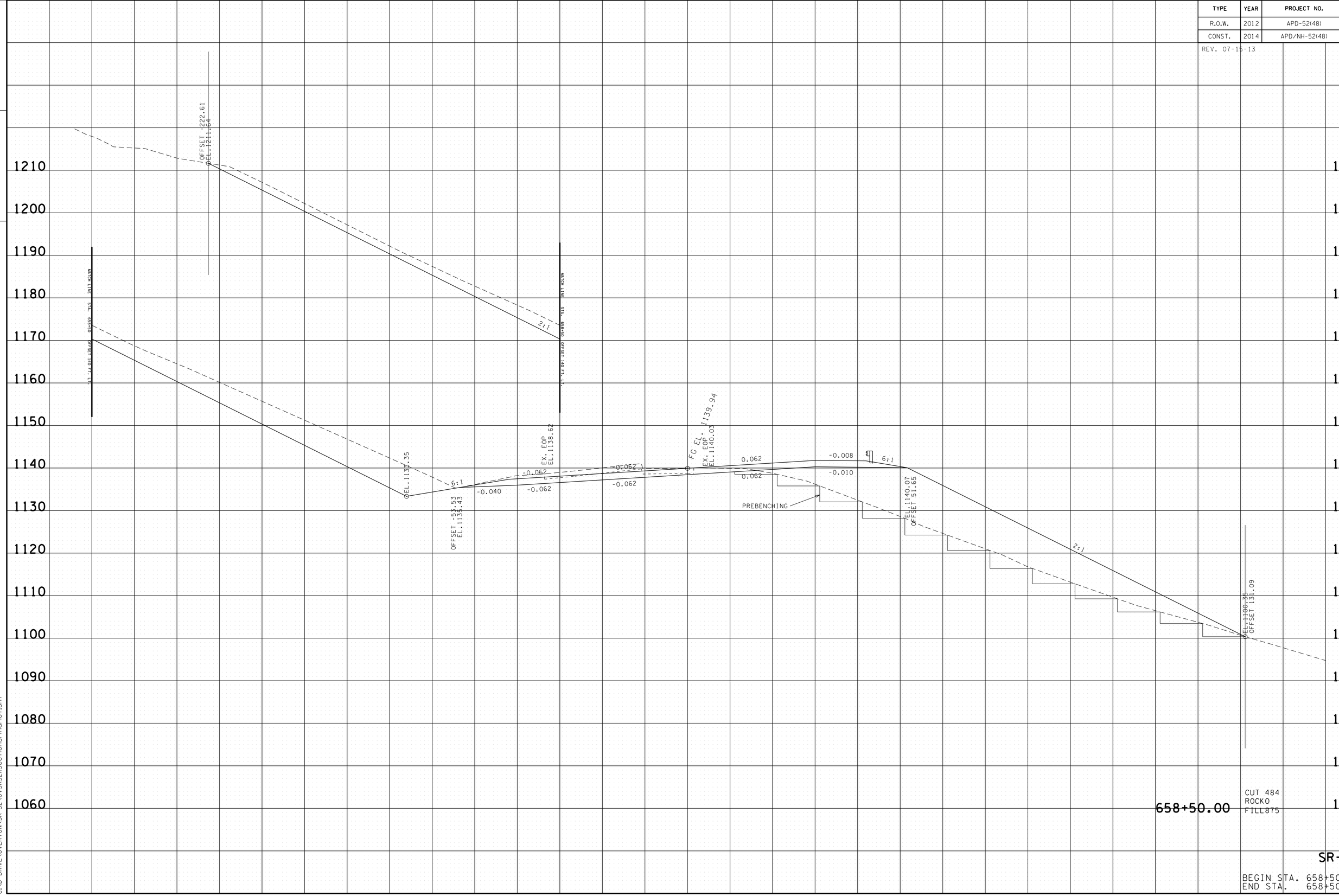
BEGIN STA. 658+00.00
END STA. 658+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	200
CONST.	2014	APD/NH-52(48)	207

REV. 07-15-13

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



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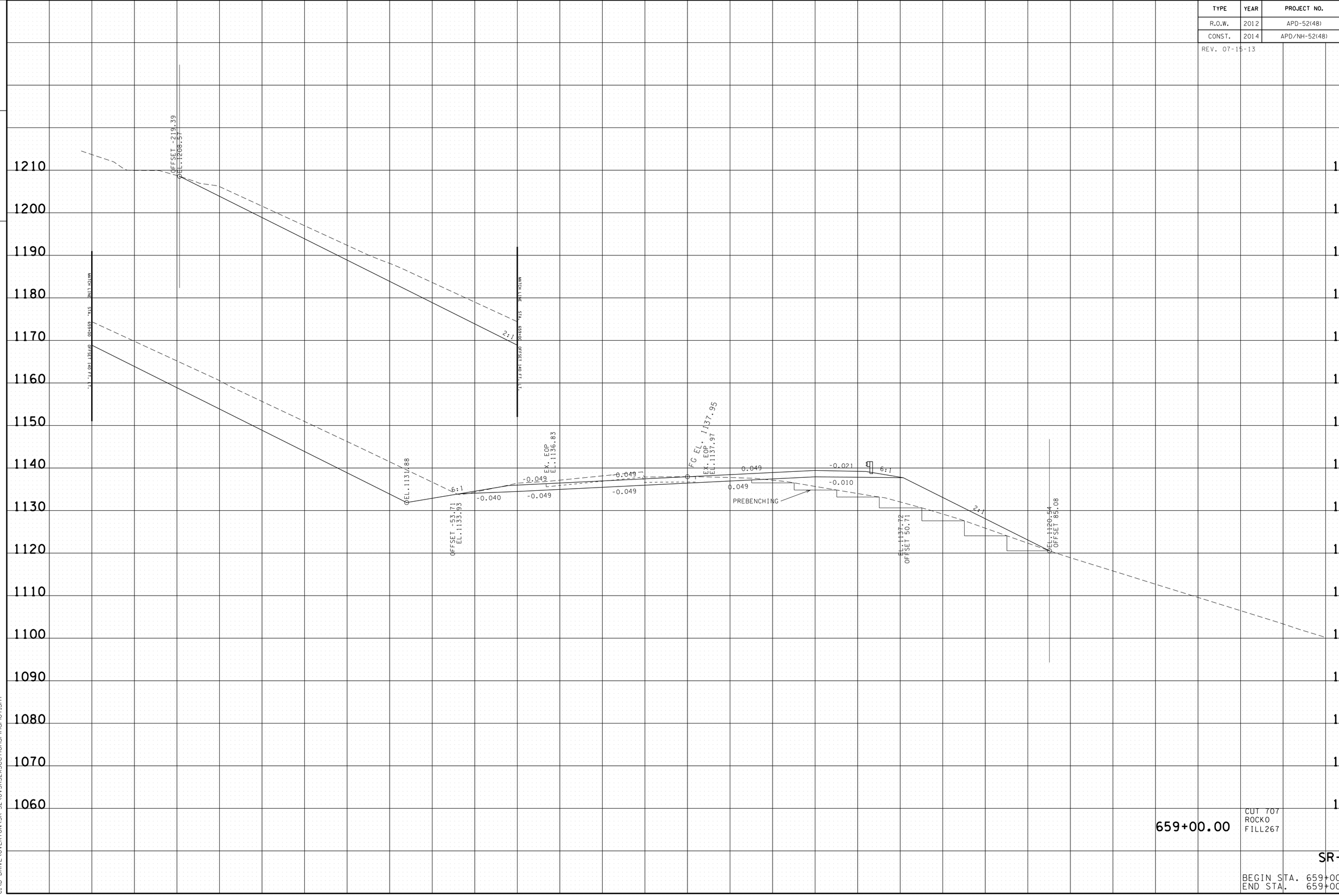
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	201
CONST.	2014	APD/NH-52(48)	208

REV. 07-15-13



659+00.00

CUT 707
ROCK 0
FILL 267

SR-52

BEGIN STA. 659+00.00
END STA. 659+00.00

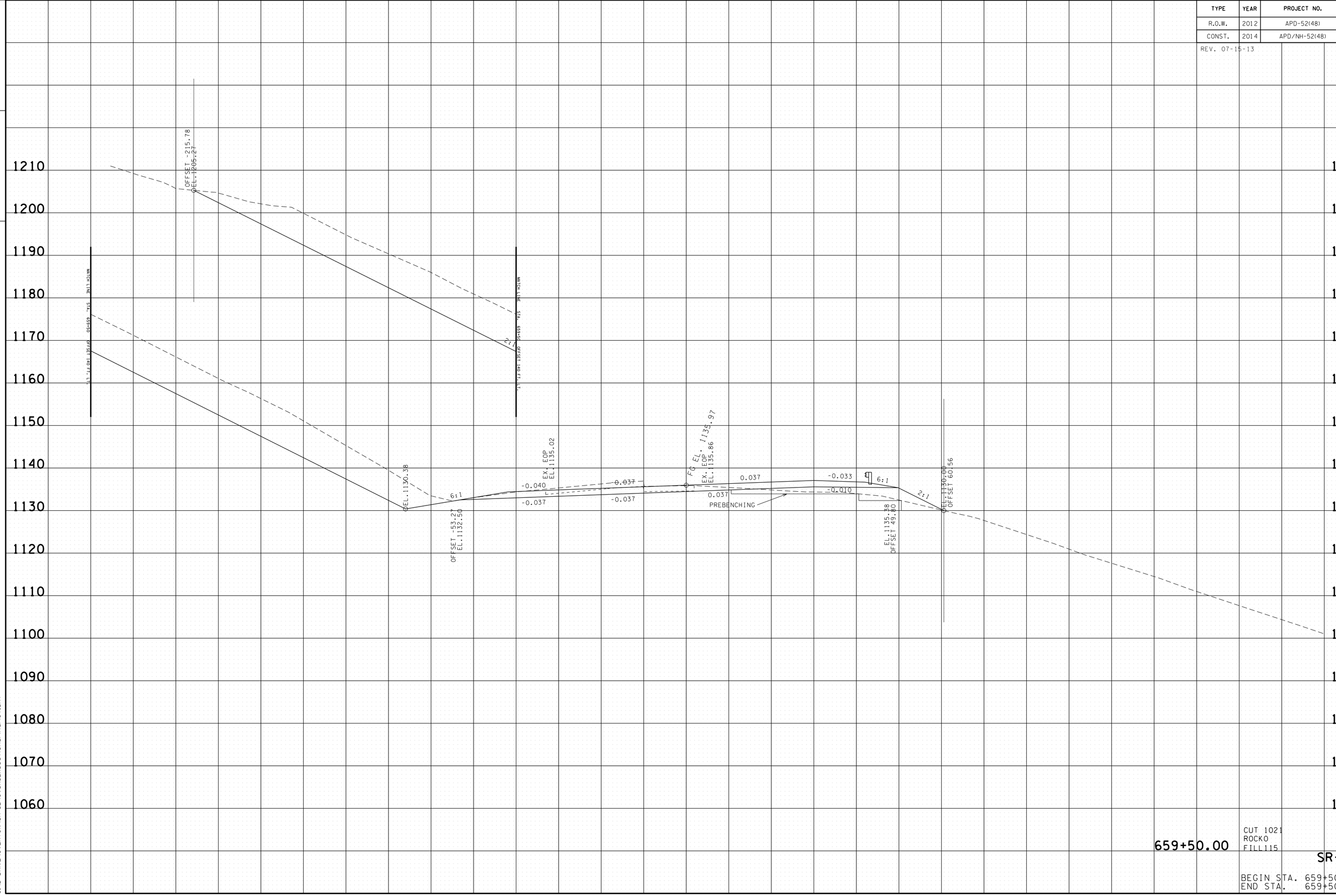
22-JAN-2015 07:54
C:\0_DRIVE_OVERTON\SR-52\0VSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	202
CONST.	2014	APD/NH-52(48)	209

REV. 07-15-13



659+50.00

CUT 1021
ROCK0
FILL115

SR-52

BEGIN STA. 659+50.00
END STA. 659+50.00

22-JAN-2015 07:54
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	203
CONST.	2014	APD/NH-52(48)	210

REV. 07-15-13

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

OFFSET -200.18
EL. 1195.86

MATCH LINE
STA. 660+00
OFFSET 140 FT. LT.

2:1

EL.1128.77

6:1

OFFSET -51.24
EL.1131.23

-0.040
EX. EOP
EL.1133.36

-0.025

-0.024

-0.024

FG EL. 1133.98
EX. EOP
EL.1133.77

0.025

0.025

PREBENCHING

-0.040

-0.010

6:1

2:1

EL.1133.03
OFFSET 49.28

EL.1128.50
OFFSET 58.33

MATCH LINE
STA. 660+00
OFFSET 140 FT. LT.

660+00.00

CUT 1132
ROCKO
FILL80

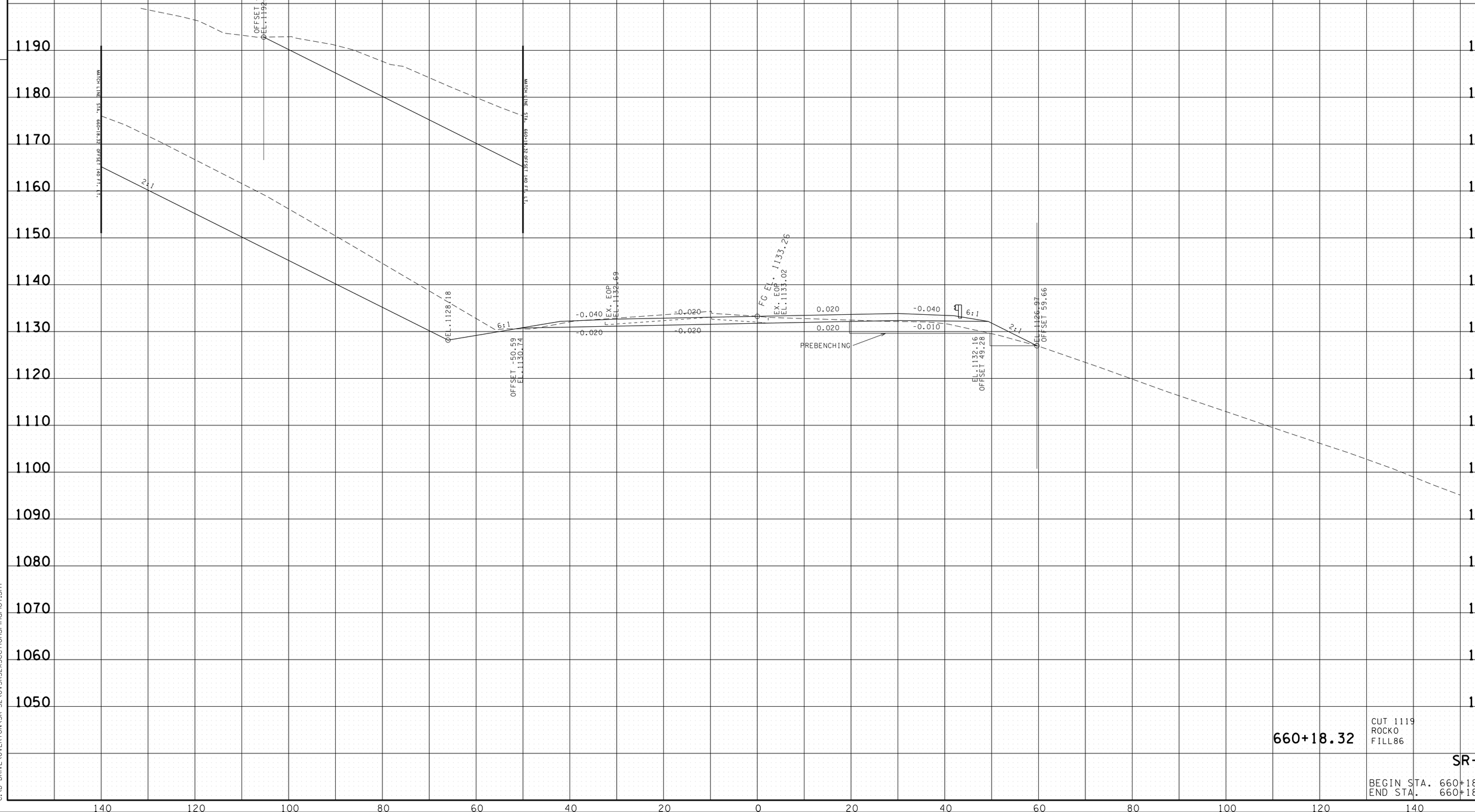
SR-52

BEGIN STA. 660+00.00
END STA. 660+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	204
CONST.	2014	APD/NH-52(48)	211

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



660+18.32

CUT 1119
ROCKO
FILL86

SR-52

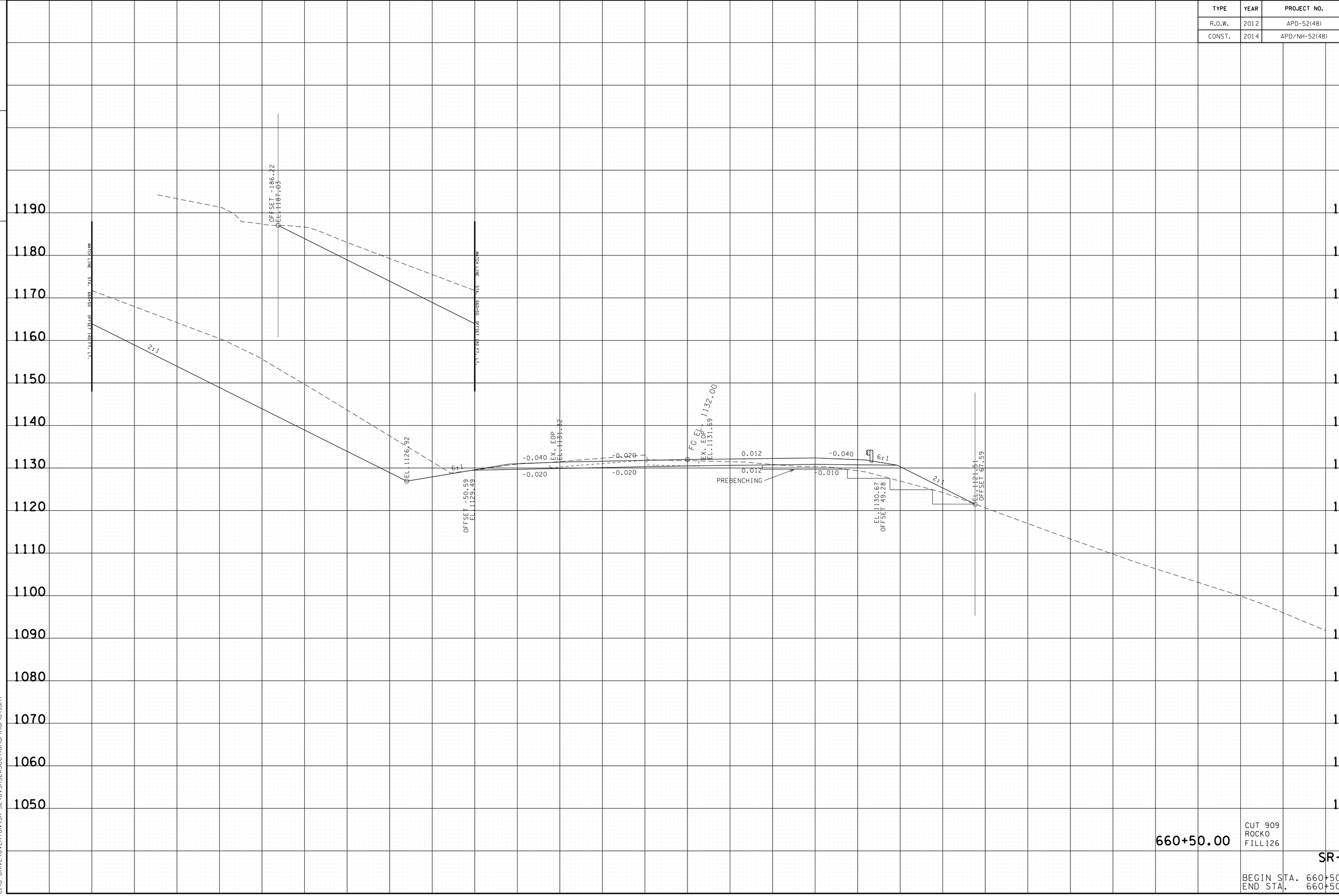
BEGIN STA. 660+18.32
END STA. 660+18.32

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	205
CONST.	2014	APD/NH-52(48)	212



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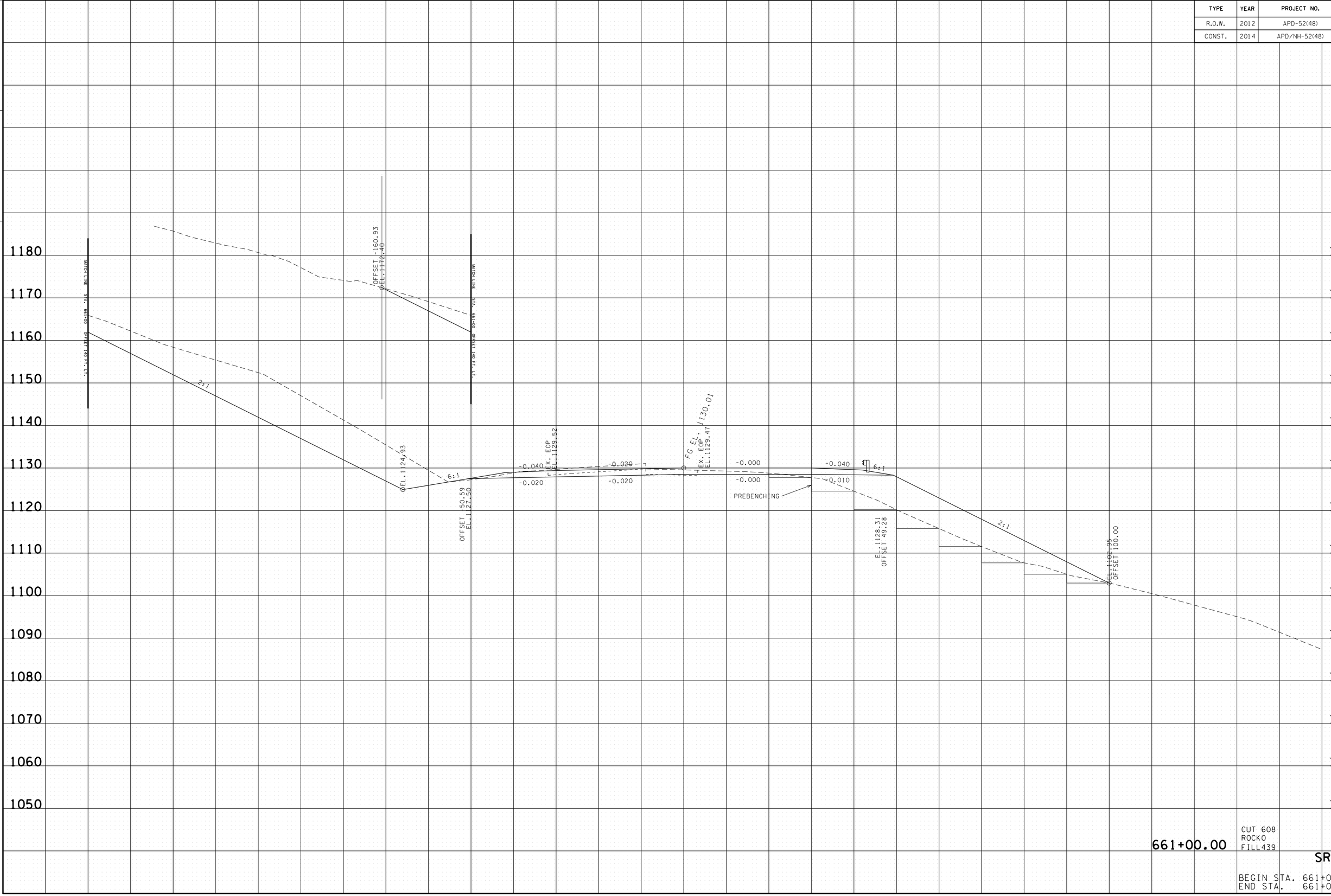
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	206
CONST.	2014	APD/NH-52(48)	213

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



661+00.00

CUT 608
ROCKO
FILL439

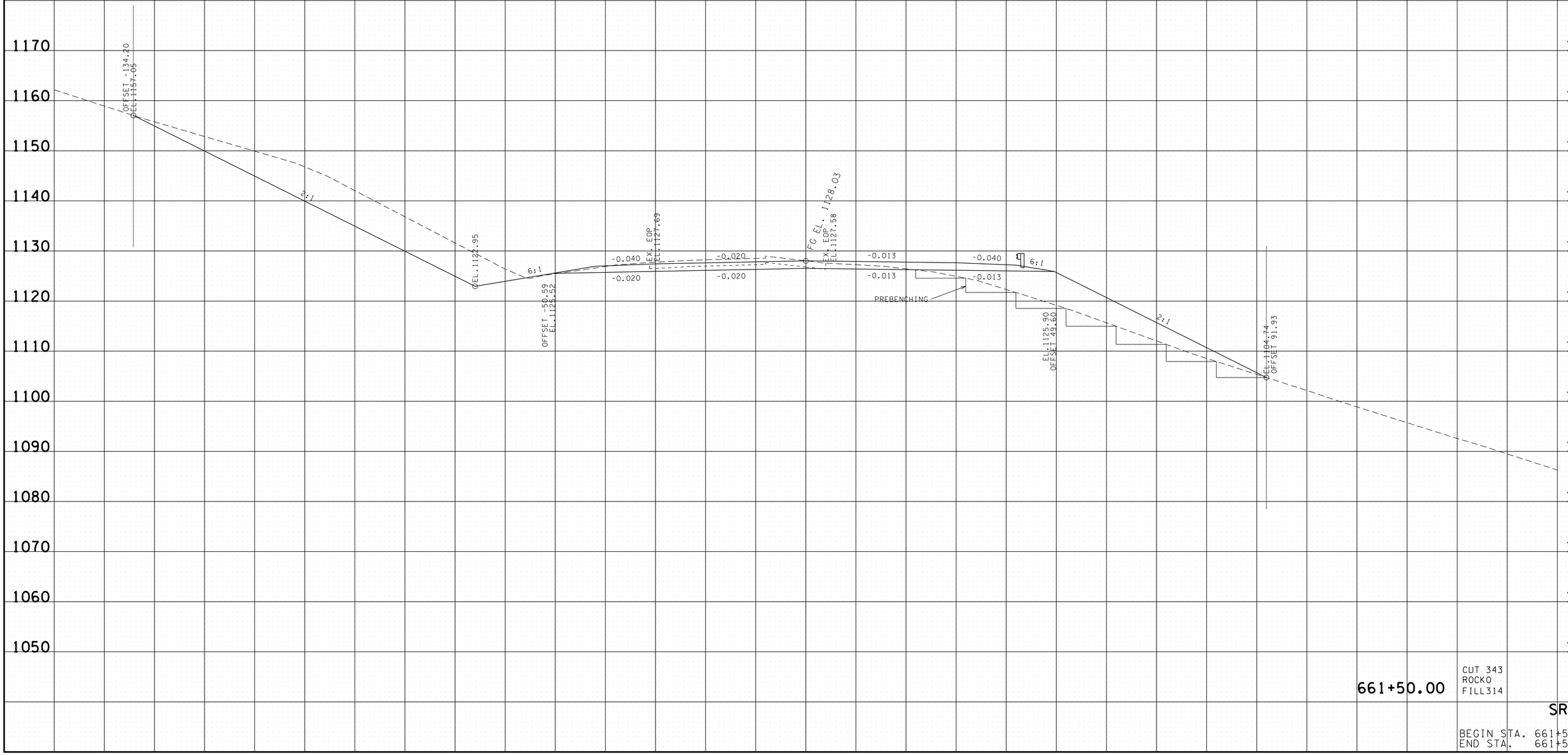
SR-52

BEGIN STA. 661+00.00
END STA. 661+00.00

22-JAN-2015 07:54
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	207
CONST.	2014	APD/NH-52(48)	214

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



661+50.00

CUT 343
ROCKO
FILL314

SR-52

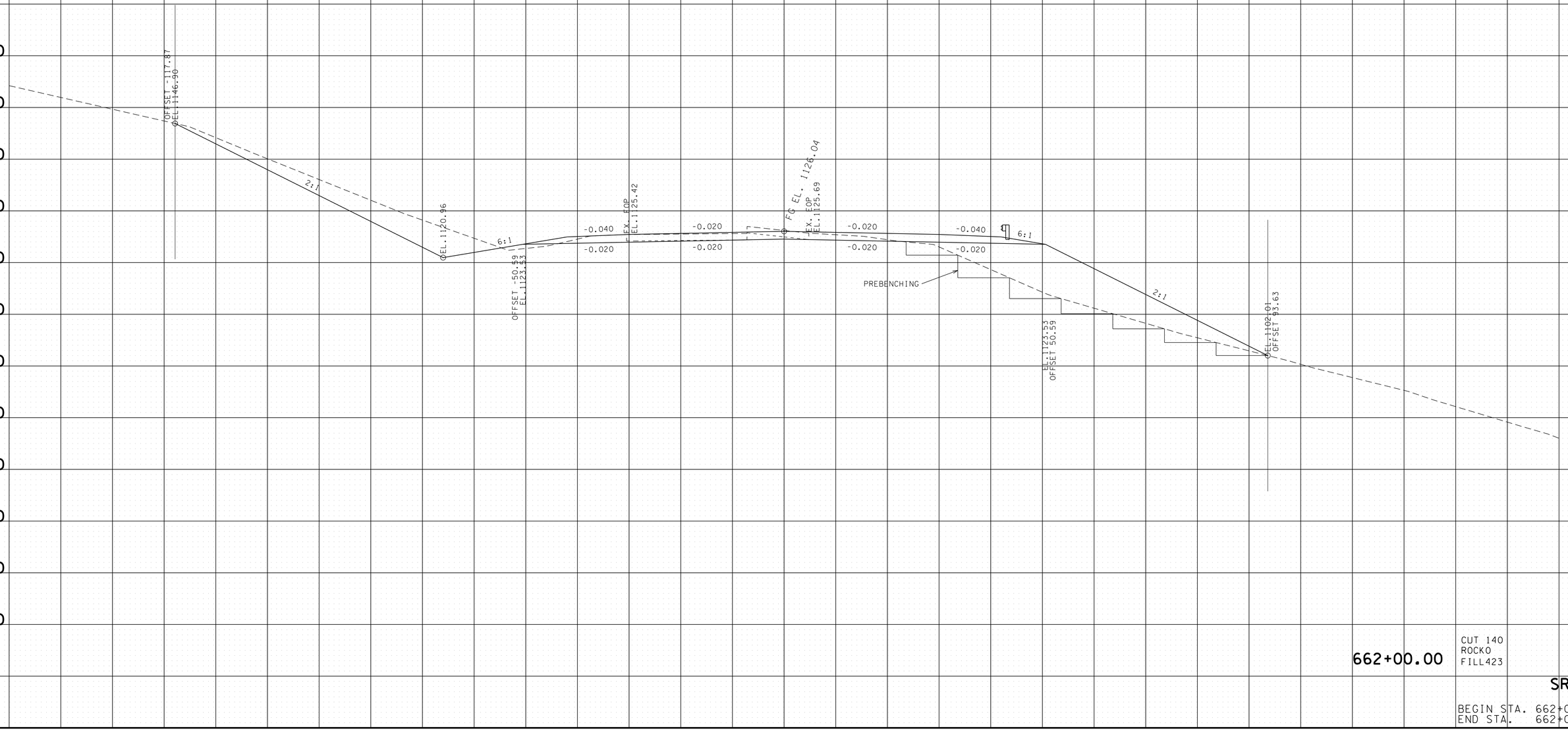
BEGIN STA. 661+50.00
END STA. 661+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	208
CONST.	2014	APD/NH-52(48)	215

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



662+00.00

CUT 140
ROCKO
FILL423

SR-52

BEGIN STA. 662+00.00
END STA. 662+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	209
CONST.	2014	APD/NH-52(48)	216

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

1220
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050

OFFSET -99.00
EL. 1135.48
2:1
EL. 1118.98
6:1
-0.040
-0.020
EX. EOP
EL. 1123.29
-0.020
-0.020
FG EL. 1124.06
EX. EOP
EL. 1123.63
-0.020
-0.040
6:1
-0.020
-0.020
OFFSET -50.59
EL. 1121.55
PREBENCHING
EL. 1121.55
OFFSET 50.59
2:1
EL. 1094.19
OFFSET 105.29

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

662+50.00

CUT 91
ROCKO
FILL686

SR-52

BEGIN STA. 662+50.00
END STA. 662+50.00

22-JAN-2015 07:54
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	210
CONST.	2014	APD/NH-52(48)	217

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1220
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050

OFFSET -93.83
@EL.1130.41

2:1

@EL.1116.99

6:1

-0.040
-0.020

OFFSET -50.59
EL.1119.56

EX. EOP
EL.1121.41

-0.020

FG EL. 1122.07

EX. EOP
EL.1121.57

-0.020

-0.040

6:1

-0.020

-0.020

PREBENCHING

EL.1119.56
OFFSET 50.59

2:1

@EL.1087.27
OFFSET 115.17

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

663+00.00

CUT 112
ROCK0
FILL877

SR-52

BEGIN STA. 663+00.00
END STA. 663+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	211
CONST.	2014	APD/NH-52(48)	218

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1210
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050

OFFSET -70.55
EL. 1117.28

EL. 1115.01

6:1

OFFSET -50.59
EL. 1117.58

-0.040
-0.020

EX. EOP
EL. 1119.30

-0.020
-0.020

FG EL. 1120.09

EX. EOP
EL. 1119.63

-0.020
-0.020

-0.040
-0.020

6:1

PREBENCHING

2:1

EL. 1117.58
OFFSET -50.59

EL. 1097.75
OFFSET 90.24

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

663+50.00

CUT 20
ROCKO
FILL451

SR-52

BEGIN STA. 663+50.00
END STA. 663+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	212
CONST.	2014	APD/NH-52(48)	219

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

DIT66400LT
664+00.00

OFFSET -103.31
℄EL. 1125.45

OFFSET -50.59
EL. 1115.59

℄EL. 1113.02

EX. EOP
EL. 1117.39

FG EL. 1118.10

EX. EOP
EL. 1117.68

PREBENCHING

EL. 1115.59
OFFSET 50.59

℄EL. 1094.99
OFFSET 91.78

6:1
6:1
6:1
2:1
-0.040
-0.020
-0.020
-0.020
-0.020
-0.020
-0.040
-0.020

1200
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

664+00.00

CUT 55
ROCKO
FILL536

SR-52

BEGIN STA. 664+00.00
END STA. 664+00.00

22-JAN-2015 07:54
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	213
CONST.	2014	APD/NH-52(48)	220

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

DIT66400LT
664+50.11

OFFSET -99.28
EL. 1122.79

EL. 1111.34

OFFSET 50.69
EL. 1113.61

EX. EOP
EL. 1115.38

FG EL. 1116.12

EX. EOP
EL. 1115.47

PREBENCHING

EL. 1113.61
OFFSET 50.59

EL. 1088.00
OFFSET 101.80

3:1
3:1
6:1
-0.040
-0.020
-0.020
-0.020
-0.020
-0.040
6:1
2:1

1190
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

664+50.00

CUT 41
ROCKO
FILL567

SR-52

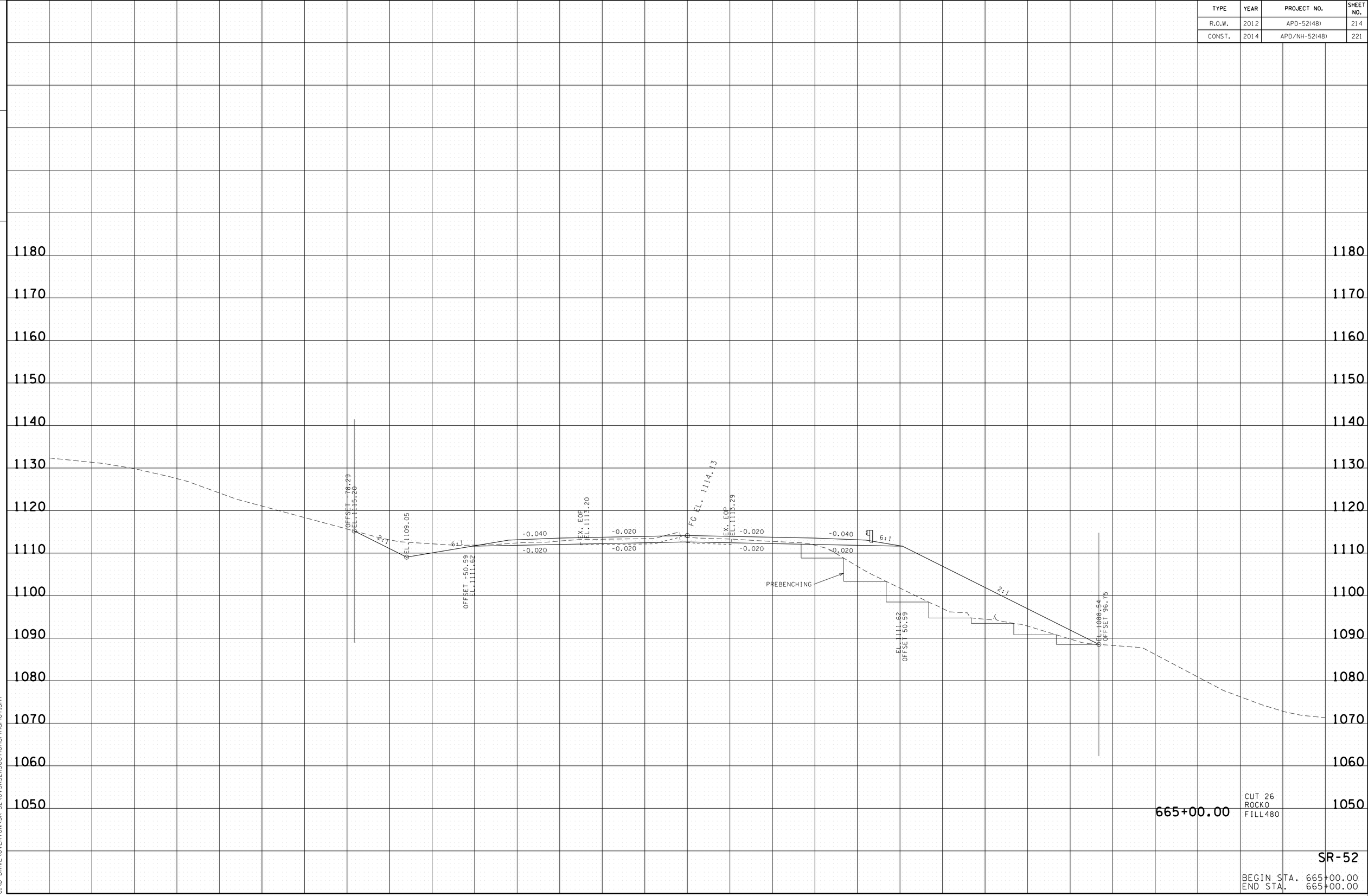
BEGIN STA. 664+50.00
END STA. 664+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	214
CONST.	2014	APD/NH-52(48)	221

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



665+00.00

CUT 26
ROCKO
FILL480

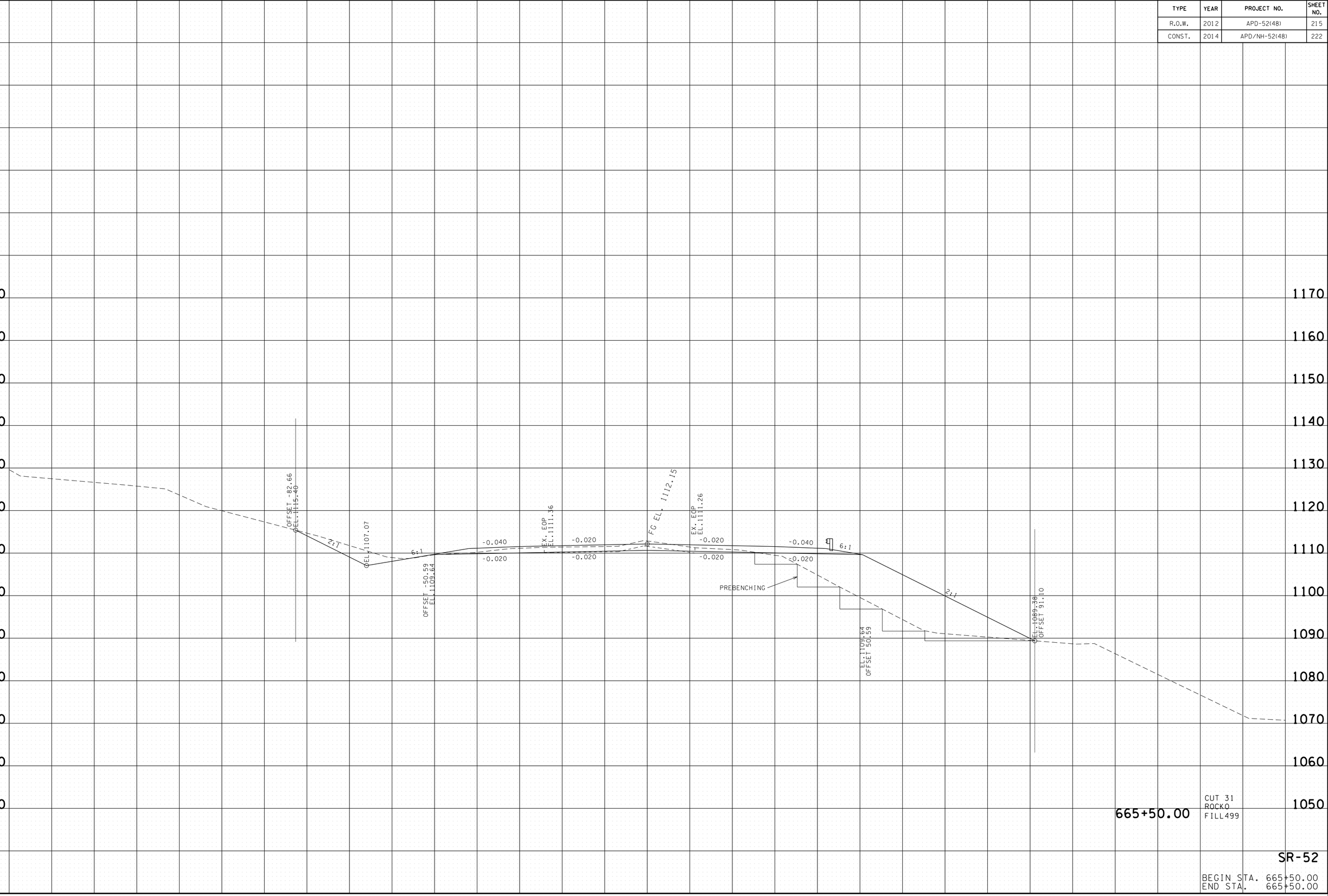
SR-52

BEGIN STA. 665+00.00
END STA. 665+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	215
CONST.	2014	APD/NH-52(48)	222

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



CUT 31
ROCK0
FILL499

665+50.00

SR-52

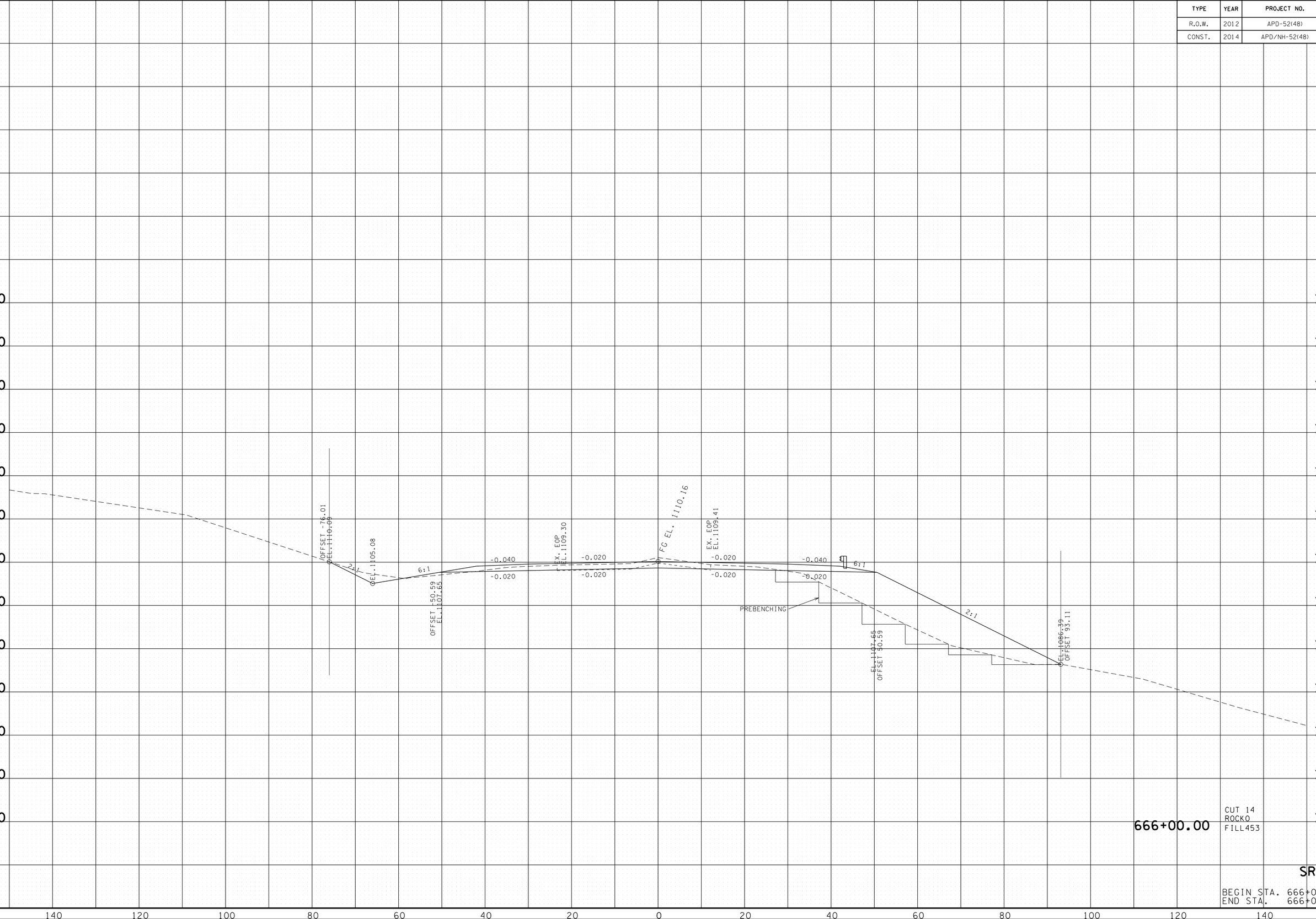
BEGIN STA. 665+50.00
END STA. 665+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	216
CONST.	2014	APD/NH-52(48)	223

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



CUT 14
ROCK0
FILL453

666+00.00

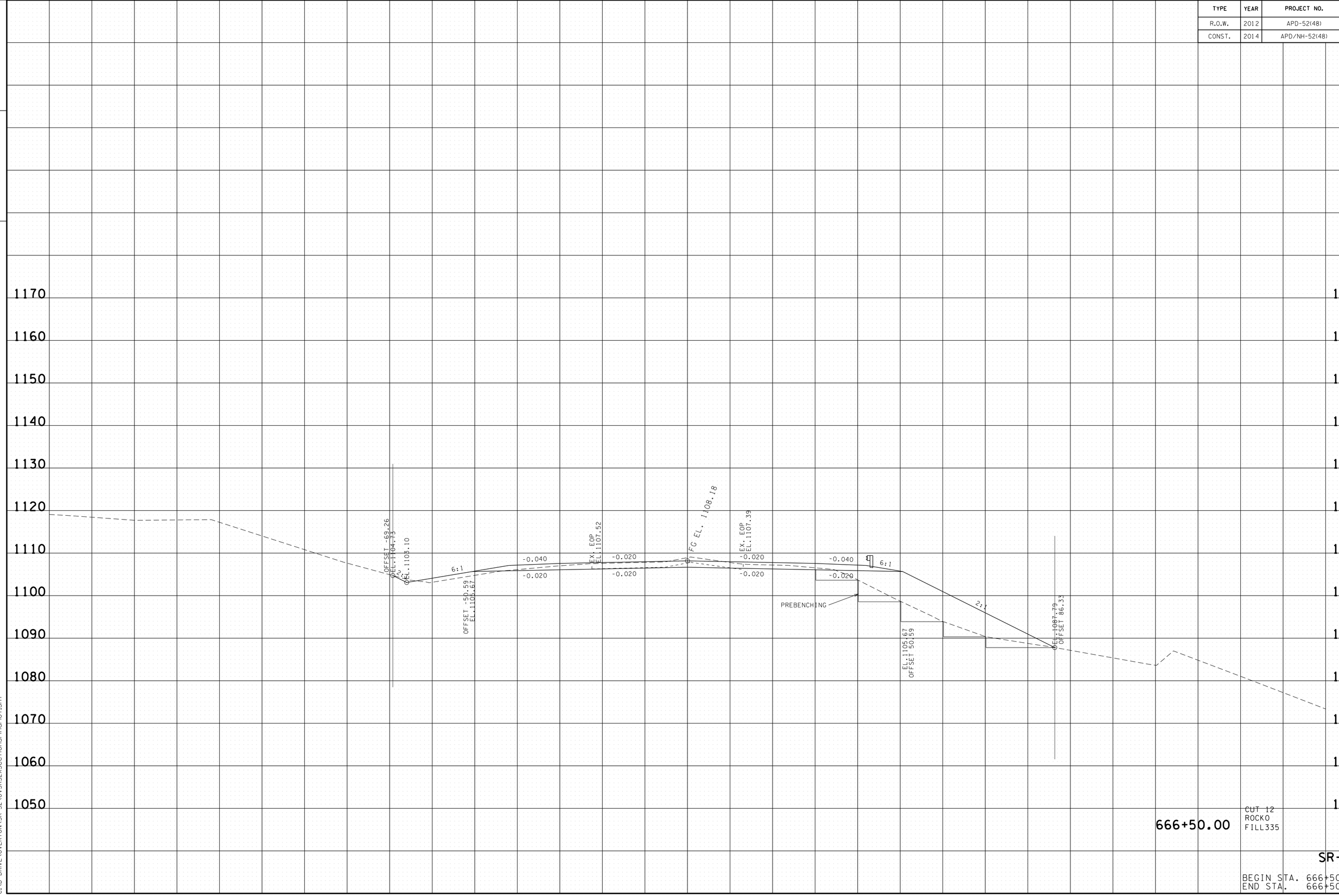
SR-52

BEGIN STA. 666+00.00
END STA. 666+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	217
CONST.	2014	APD/NH-52(48)	224

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



666+50.00

CUT 12
ROCKO
FILL335

SR-52

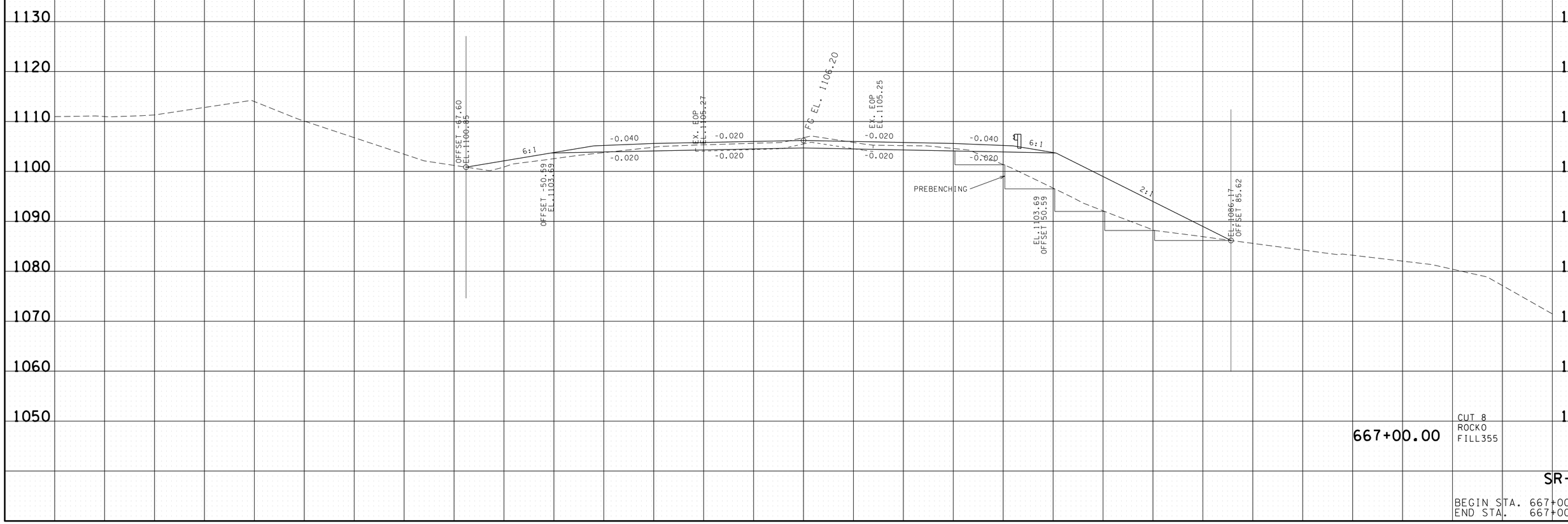
BEGIN STA. 666+50.00
END STA. 666+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	218
CONST.	2014	APD/NH-52(48)	225

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



667+00.00

CUT 8
ROCK 0
FILL 355

SR-52

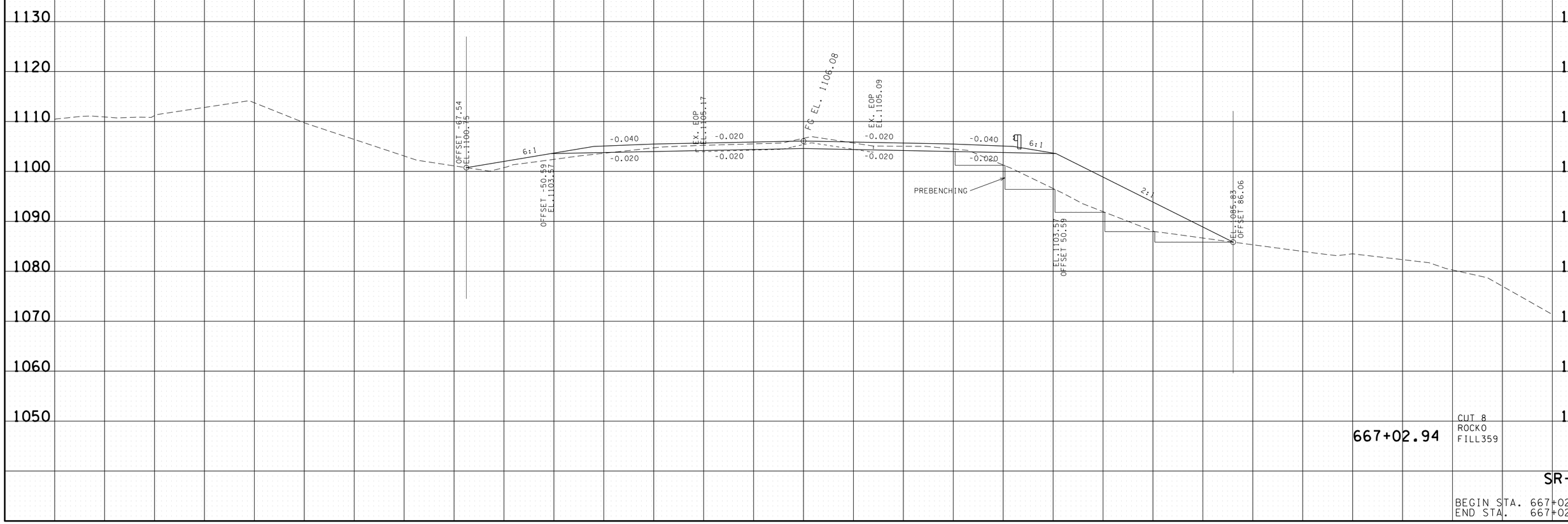
BEGIN STA. 667+00.00
END STA. 667+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	219
CONST.	2014	APD/NH-52(48)	226

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



667+02.94

CUT 8
ROCKO
FILL359

SR-52

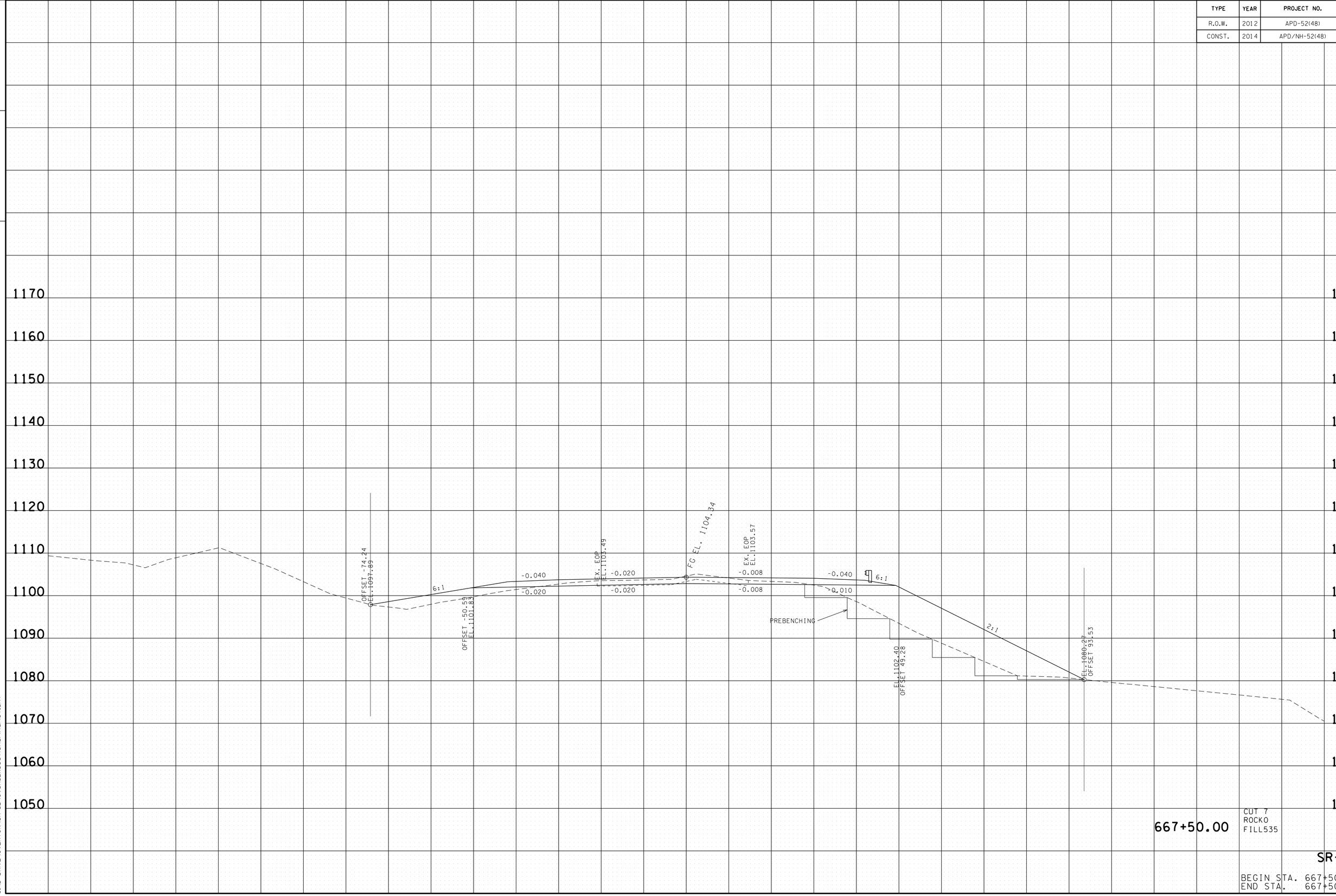
BEGIN STA. 667+02.94
END STA. 667+02.94

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	220
CONST.	2014	APD/NH-52(48)	227

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



667+50.00

CUT 7
ROCKO
FILL535

SR-52

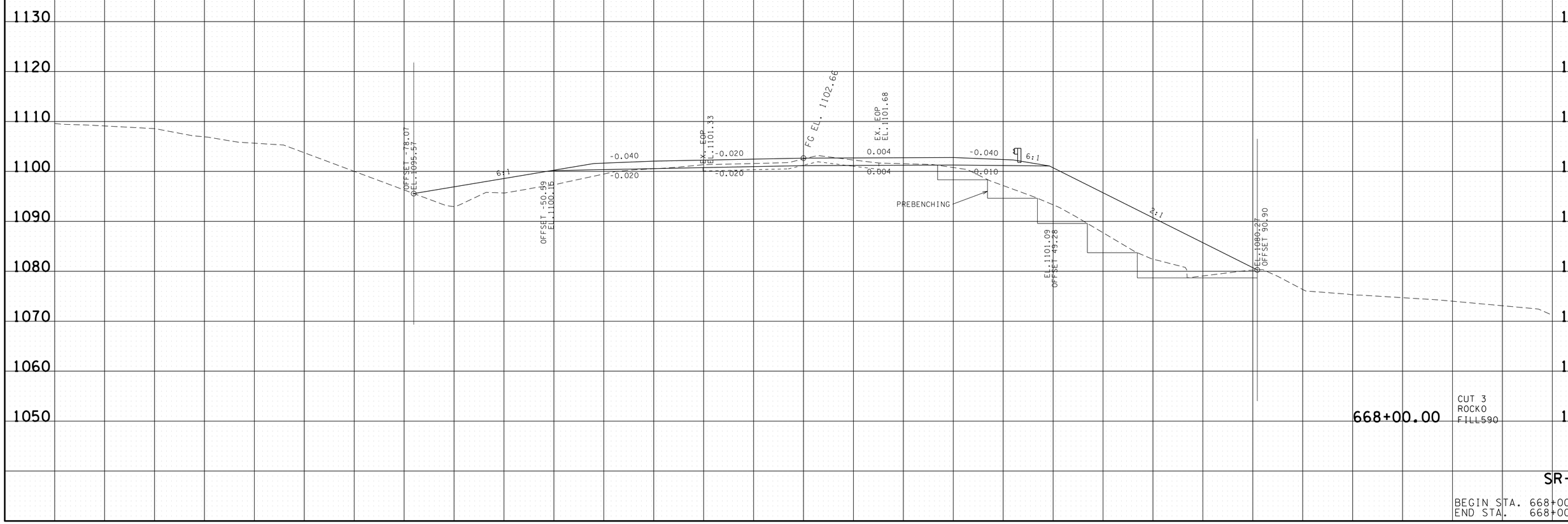
BEGIN STA. 667+50.00
END STA. 667+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	221
CONST.	2014	APD/NH-52(48)	228

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



668+00.00

CUT 3
ROCKO
FILL590

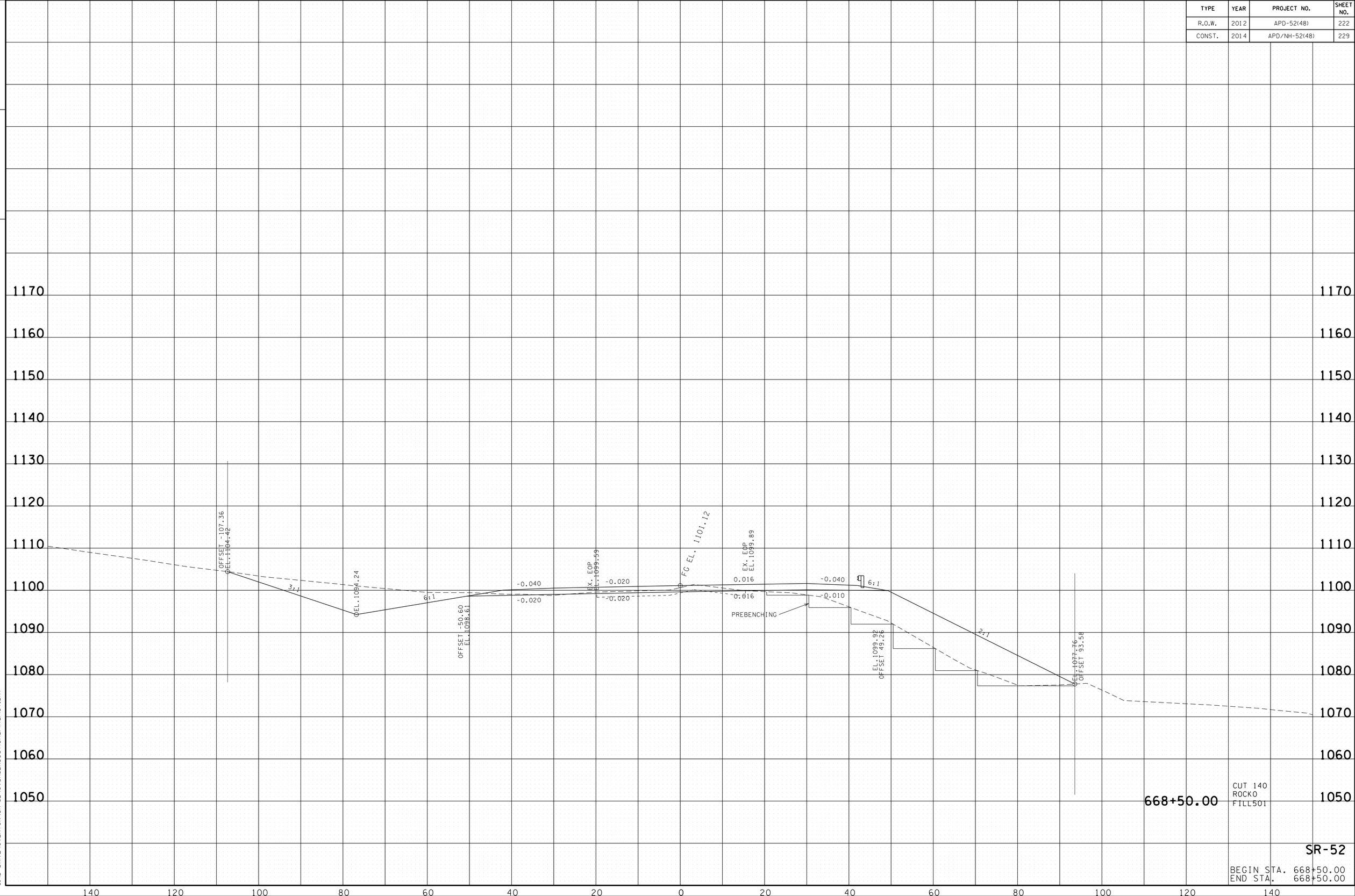
SR-52

BEGIN STA. 668+00.00
END STA. 668+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	222
CONST.	2014	APD/NH-52(48)	229

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



668+50.00

CUT 140
ROCKO
FILL501

SR-52

BEGIN STA. 668+50.00
END STA. 668+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	223
CONST.	2014	APD/NH-52(48)	230

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1170
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050

OFFSET 108.55
℄EL. 1104.28

3:1

℄EL. 1093.77

6:1

OFFSET -50.60
EL. 1098.17

-0.040
-0.020

EX. EOP
EL. 1099.09

-0.020
-0.020

FG EL. 1100.68

EX. EOP
EL. 1099.36

0.020
-0.020

-0.040
-0.010

PREBENCHING

6:1

2:1

EL. 1099.59
OFFSET 49.25

℄EL. 1077.18
OFFSET 94.08

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

668+64.30

CUT 123
ROCKO
FILL543

SR-52

BEGIN STA. 668+64.30
END STA. 668+64.30

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	224
CONST.	2014	APD/NH-52(48)	231

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1170
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050

OFFSET -120.18
EL. 1107.34
3:1
EL. 1092.60
6:1
OFFSET -51.93
EL. 1096.60
-0.040
-0.029
EX. EOP
EL. 1097.57
-0.029
-0.029
FG EL. 1099.60
EX. EOP
EL. 1098.27
0.029
-0.040
6:1
0.029
-0.010
PREBENCHING
2:1
EL. 1098.77
OFFSET 49.23
EL. 1076.25
OFFSET 94.27

669+00.00

CUT 154
ROCKO
FILL495

SR-52

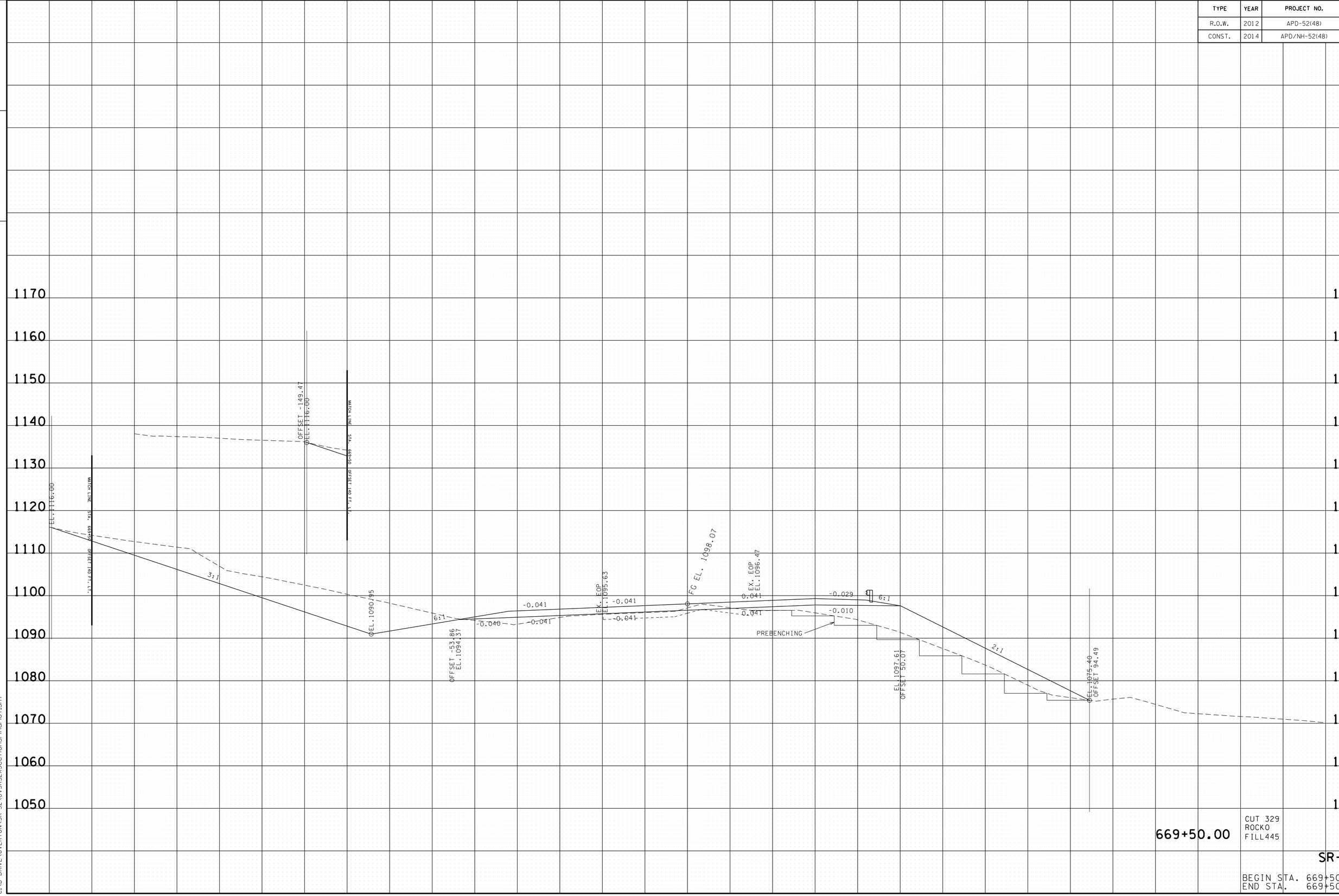
BEGIN STA. 669+00.00
END STA. 669+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	225
CONST.	2014	APD/NH-52(48)	232

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



669+50.00

CUT 329
ROCKO
FILL445

SR-52

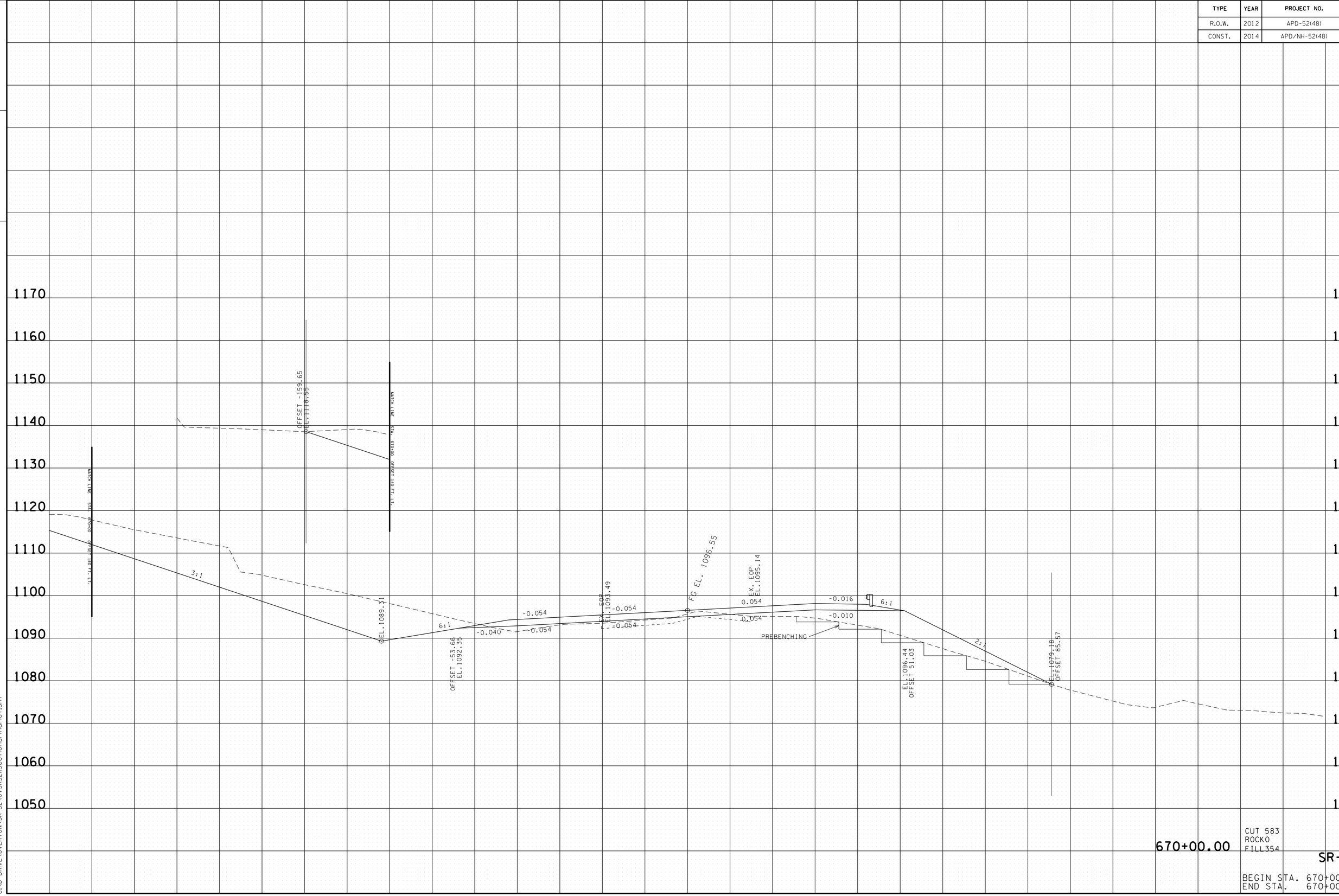
BEGIN STA. 669+50.00
END STA. 669+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	226
CONST.	2014	APD/NH-52(48)	233

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



670+00.00

CUT 583
ROCKO
FILL354

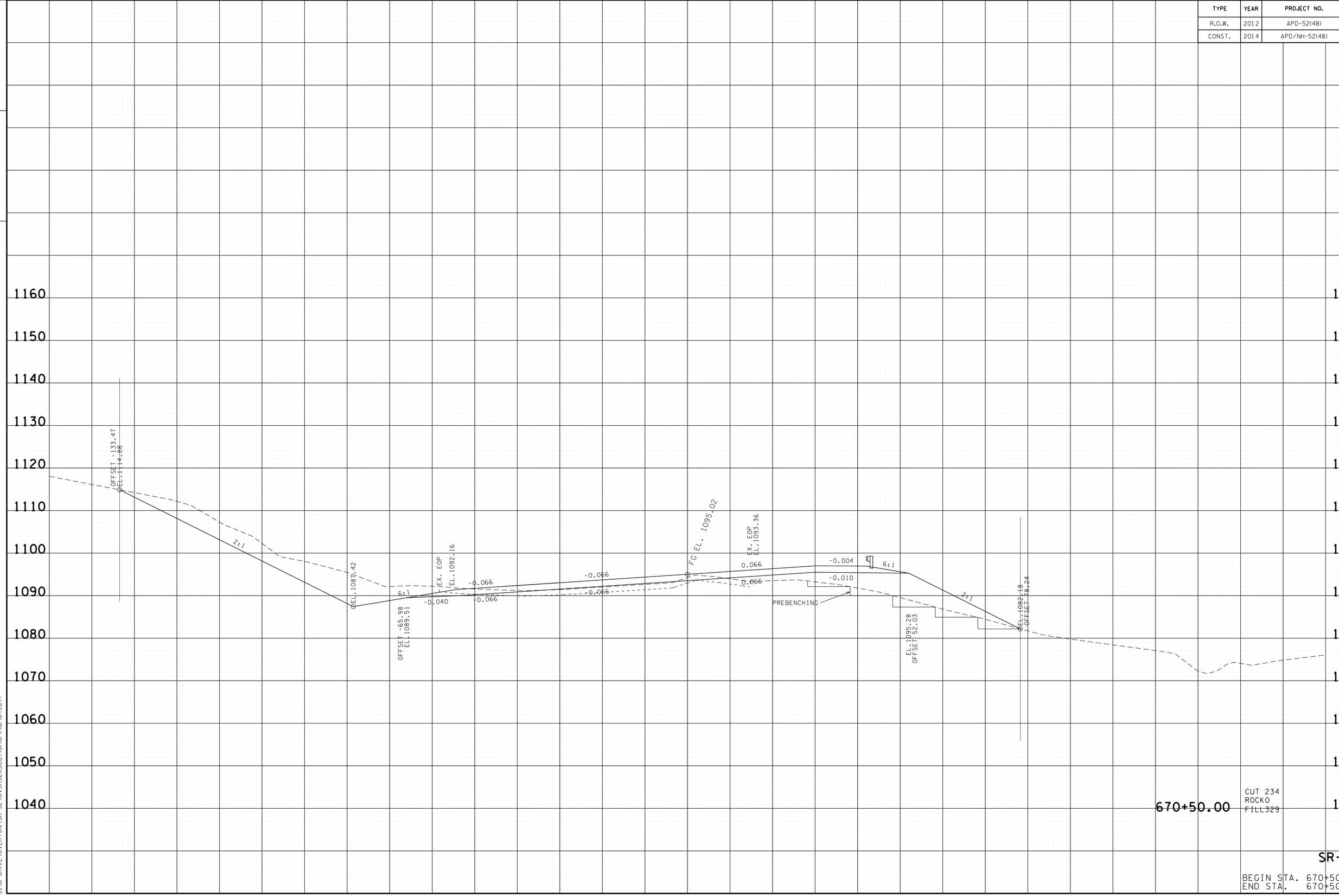
SR-52

BEGIN STA. 670+00.00
END STA. 670+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	227
CONST.	2014	APD/NH-52(48)	234

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



670+50.00

CUT 234
ROCKO
FILL329

SR-52

BEGIN STA. 670+50.00
END STA. 670+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	228
CONST.	2014	APD/NH-52(48)	235

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

EX. EOP
EL.1093.01

OFFSET -30.20
SIDEROAD
EL.1091.22

-0.068
-0.068

FG EL. 1094.78

EX. EOP
EL.1093.18

0.068
0.068

-0.002
-0.010

6:1

2:1

PREBENCHING

EL.1095.10
OFFSET 52.18

EL.1082.57
OFFSET 77.23

670+57.94

CUT 0
ROCKO
FILL308

SR-52

BEGIN STA. 670+57.94
END STA. 670+57.94

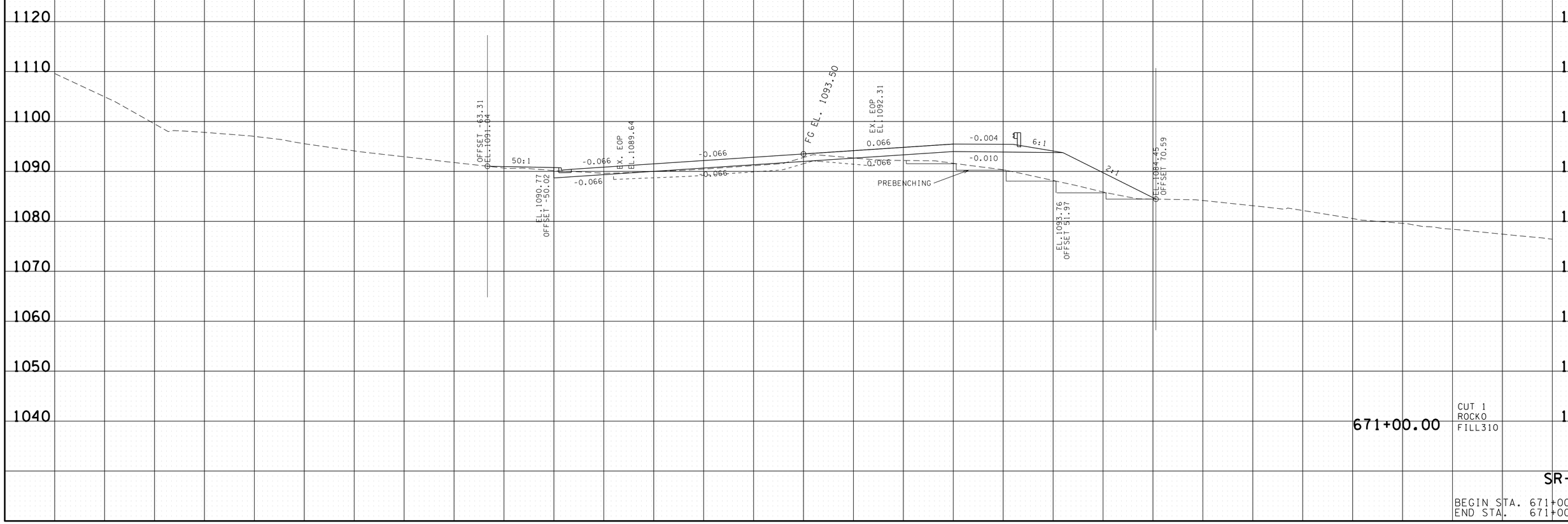
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	229
CONST.	2014	APD/NH-52(48)	236

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



671+00.00

CUT 1
ROCK0
FILL310

SR-52

BEGIN STA. 671+00.00
END STA. 671+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	230
CONST.	2014	APD/NH-52(48)	237

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

1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

OFFSET -72.82
EL. 1099.63
2:1
50:1
10:1
-0.064
0.064
EL. 1089.77
OFFSET -43.50
EX. EOP
EL. 1089.18
FG EL. 1091.97
EX. EOP
EL. 1090.71
0.064
-0.006
-0.010
PREBENCHING
3:1:1
EL. 1076.63
OFFSET 94.84

671+50.00

CUT 73
ROCKO
FILL322

SR-52

BEGIN STA. 671+50.00
END STA. 671+50.00

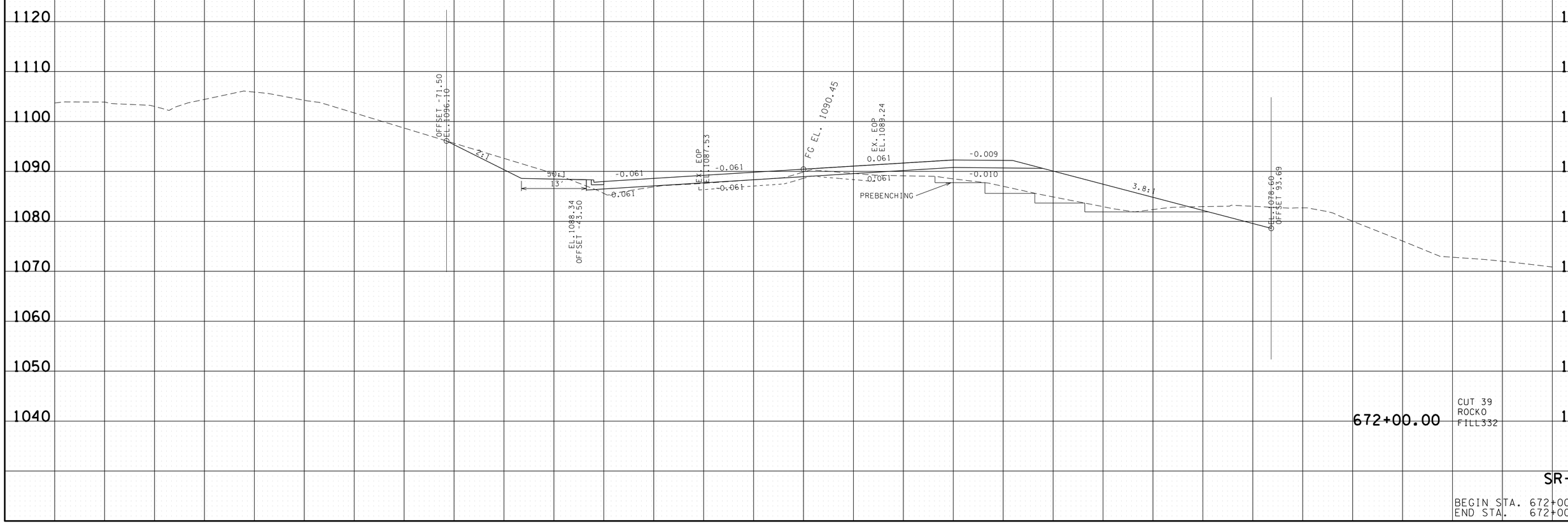
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	231
CONST.	2014	APD/NH-52(48)	238

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



672+00.00

CUT 39
ROCKO
FILL332

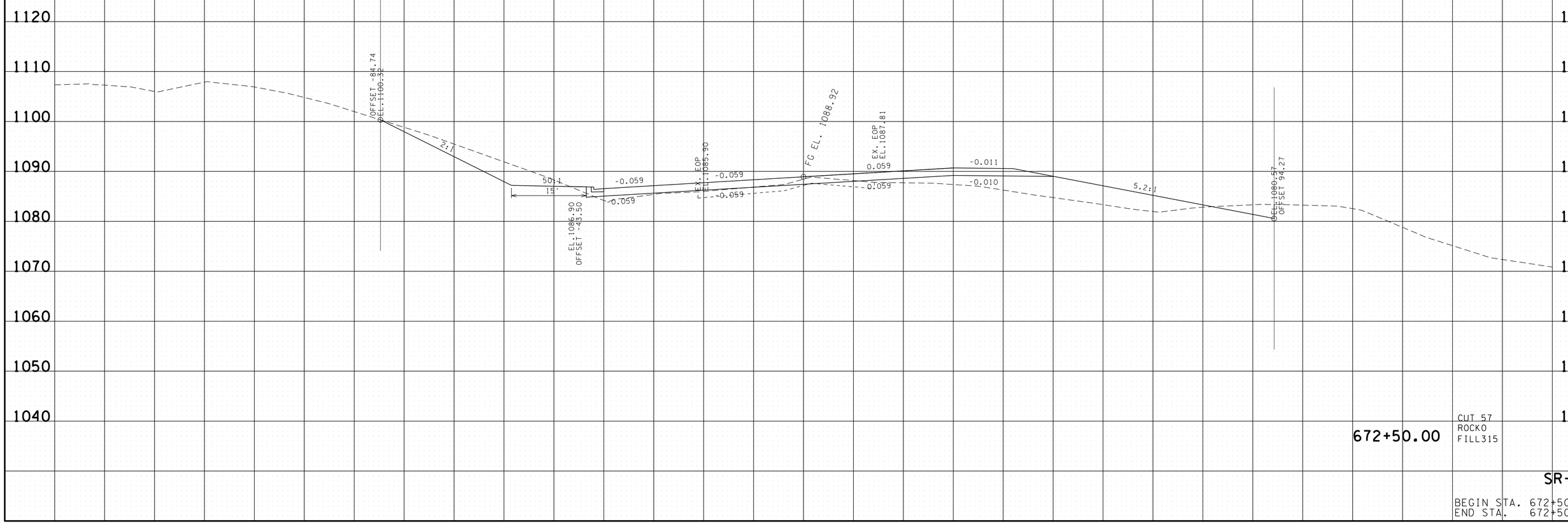
SR-52

BEGIN STA. 672+00.00
END STA. 672+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	232
CONST.	2014	APD/NH-52(48)	239

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



672+50.00

CUT 57
ROCKO
FILL315

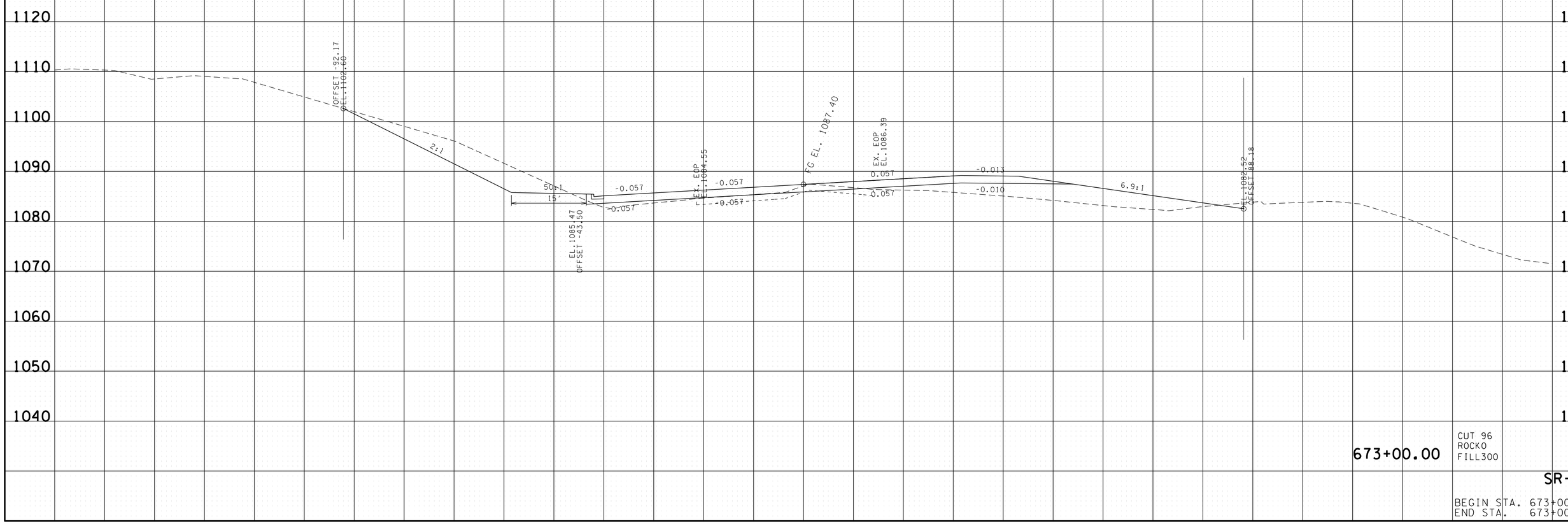
SR-52

BEGIN STA. 672+50.00
END STA. 672+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	233
CONST.	2014	APD/NH-52(48)	240

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



673+00.00

CUT 96
ROCK0
FILL300

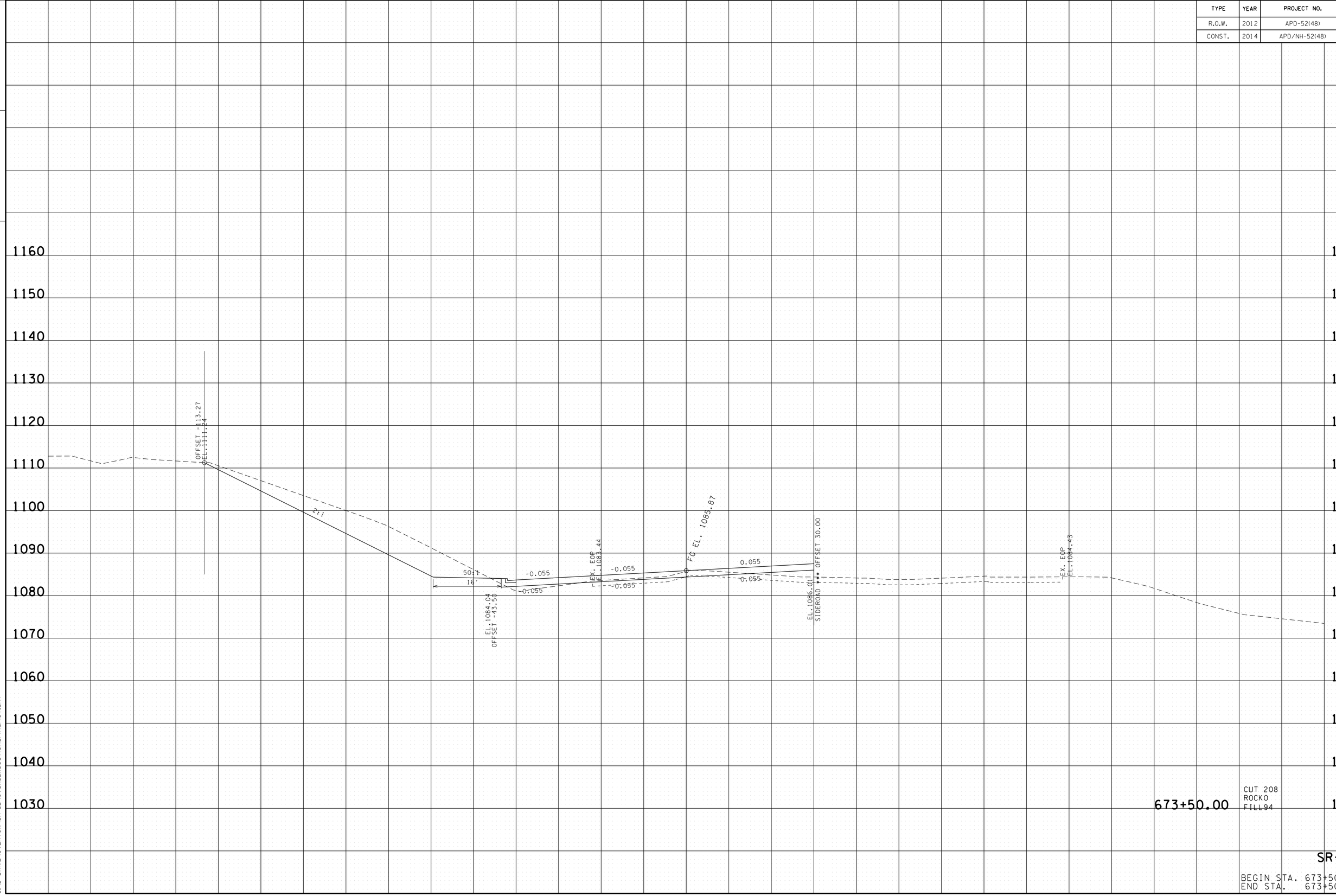
SR-52

BEGIN STA. 673+00.00
END STA. 673+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	234
CONST.	2014	APD/NH-52(48)	241

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



673+50.00

CUT 208
ROCKO
FILL94

SR-52

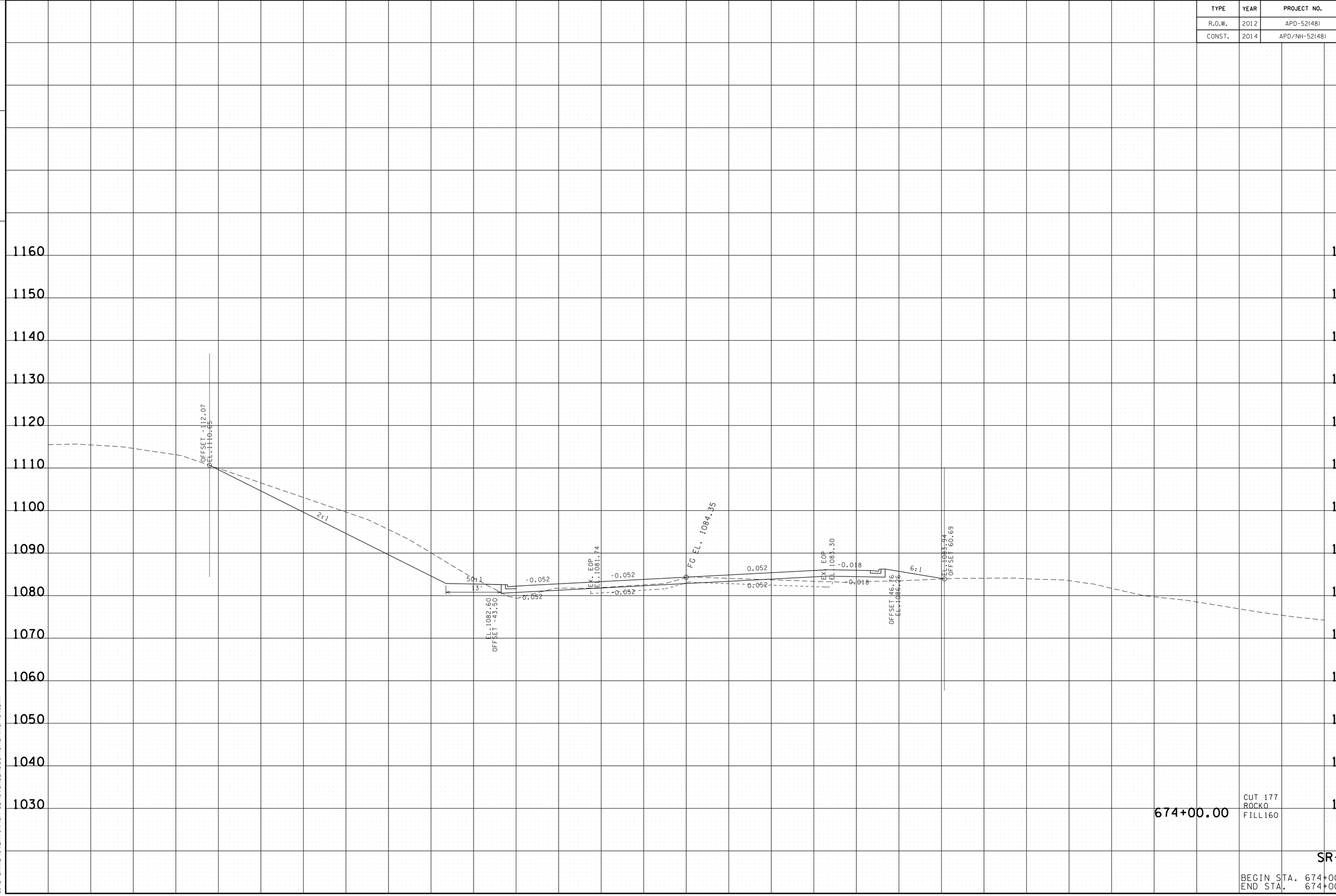
BEGIN STA. 673+50.00
END STA. 673+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	235
CONST.	2014	APD/NH-52(48)	242

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



674+00.00

CUT 177
ROCKO
FILL160

SR-52

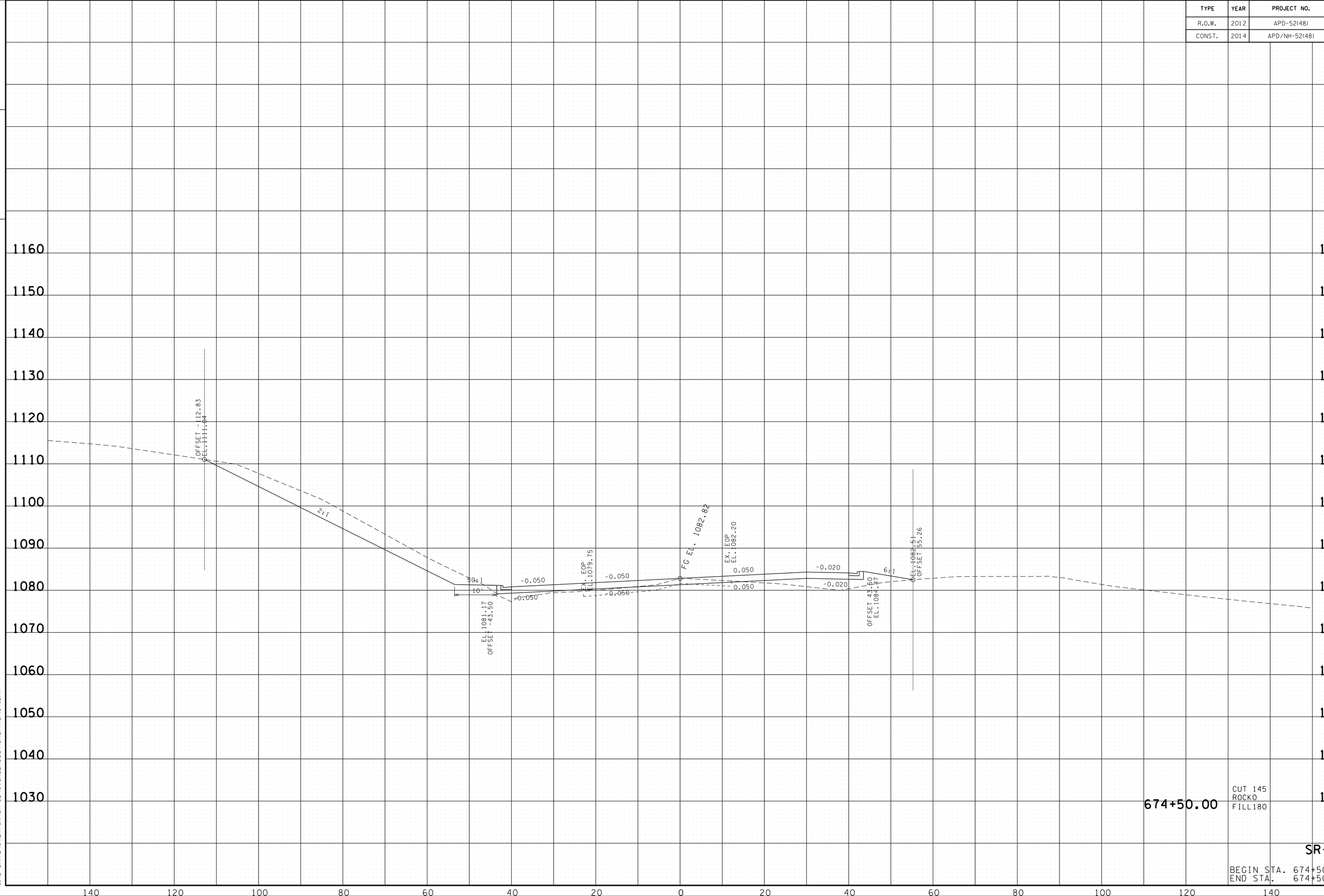
BEGIN STA. 674+00.00
END STA. 674+00.00

22-JAN-2015 07:54
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	236
CONST.	2014	APD/NH-52(48)	243



674+50.00

CUT 145
ROCK0
FILL180

SR-52

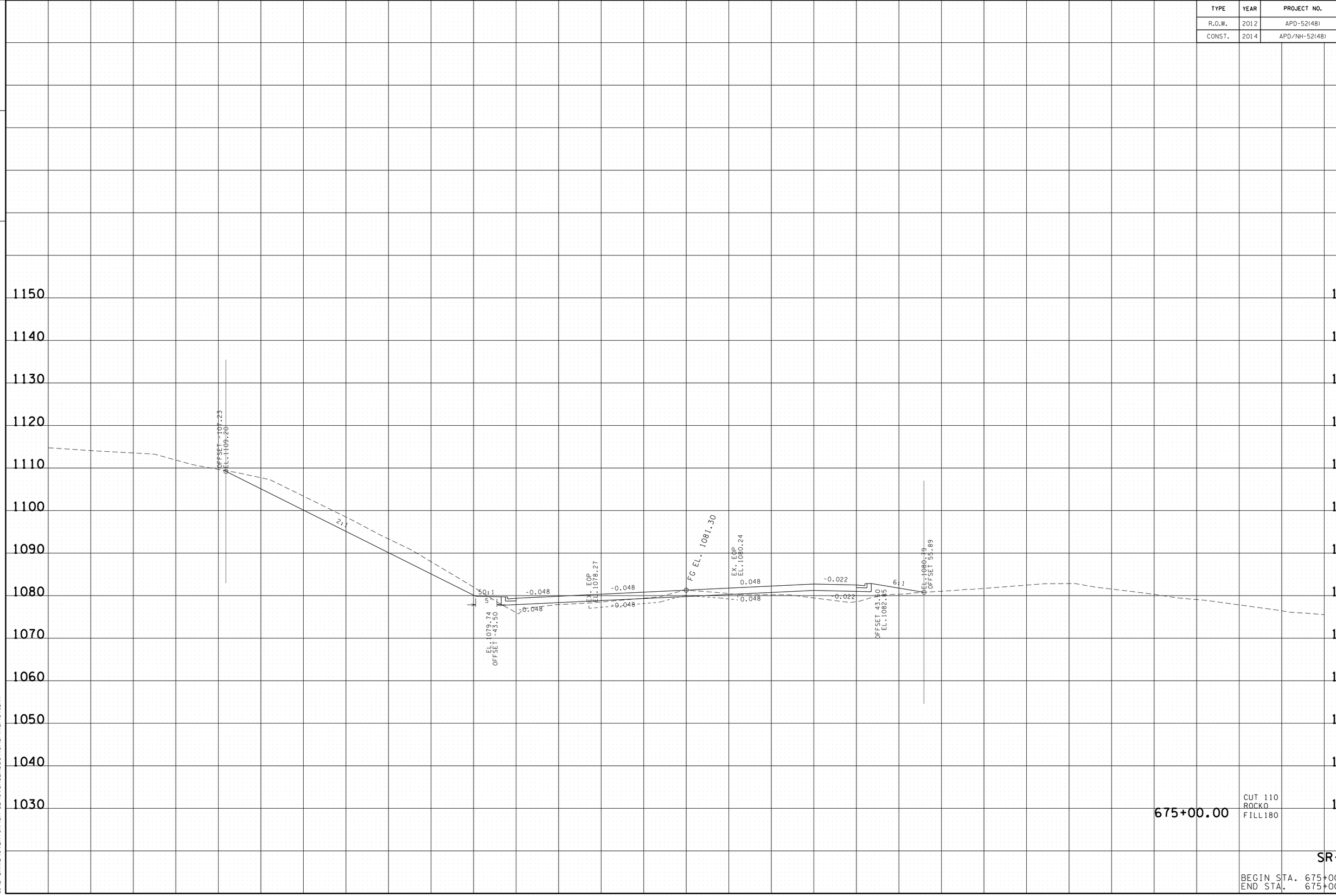
BEGIN STA. 674+50.00
END STA. 674+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	237
CONST.	2014	APD/NH-52(48)	244



22-JAN-2015 07:54
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	238
CONST.	2014	APD/NH-52(48)	245

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030

OFFSET -46.03
EL. 1078.35
OFFSET -43.50
EL. 1078.30
0.0:1
-0.045
-0.045
EX. EOP
EL. 1077.40
-0.045
-0.045
FG EL. 1079.77
EX. EOP
EL. 1079.16
0.045
0.045
-0.025
-0.025
6:1
OFFSET 43.50
EL. 1081.24
EL. 1079.23
OFFSET 55.55

675+50.00

CUT 1
~~ROCKO~~
FILL151

SR-52

BEGIN STA. 675+50.00
END STA. 675+50.00

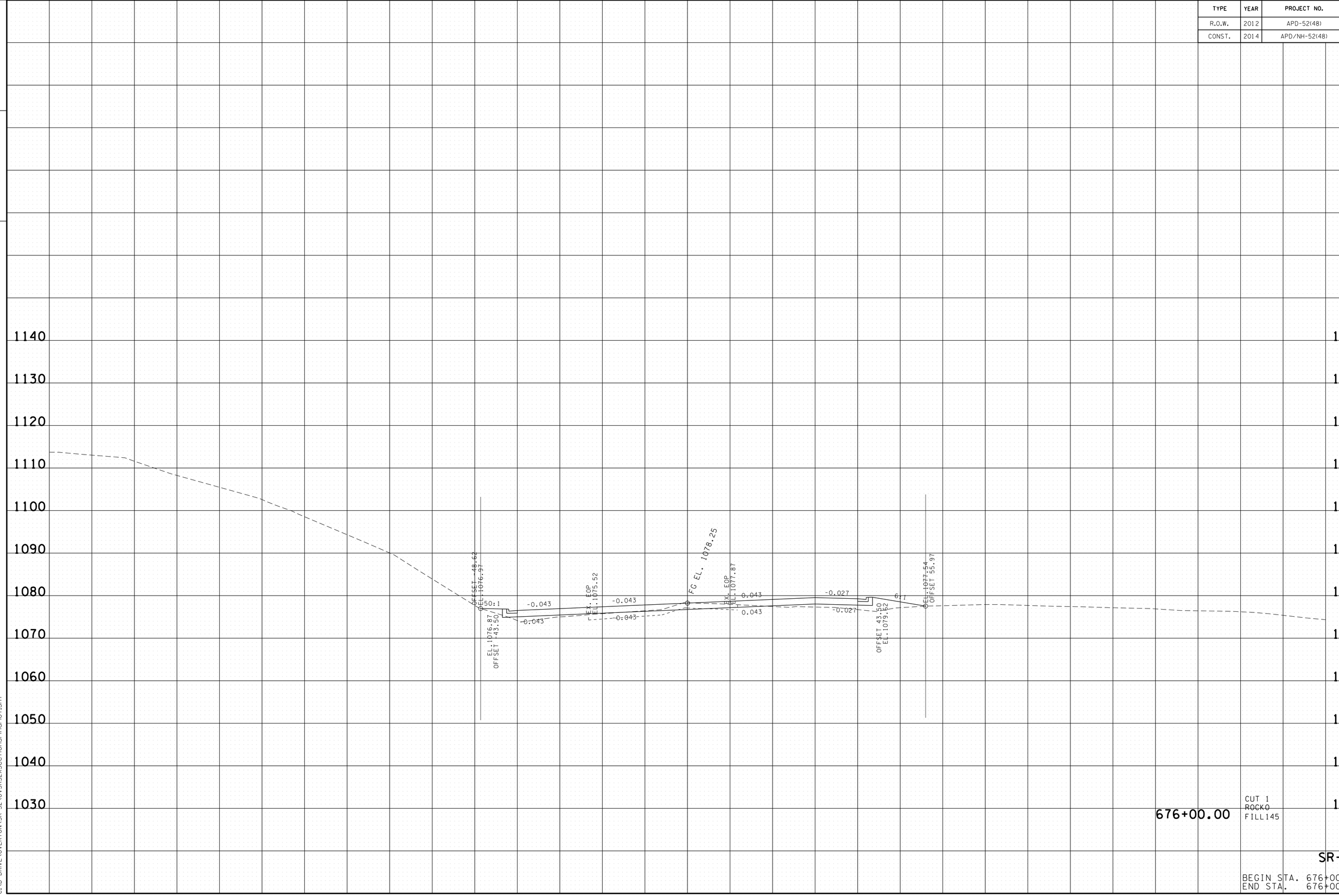
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	239
CONST.	2014	APD/NH-52(48)	246



676+00.00

CUT 1
ROCKO
FILL145

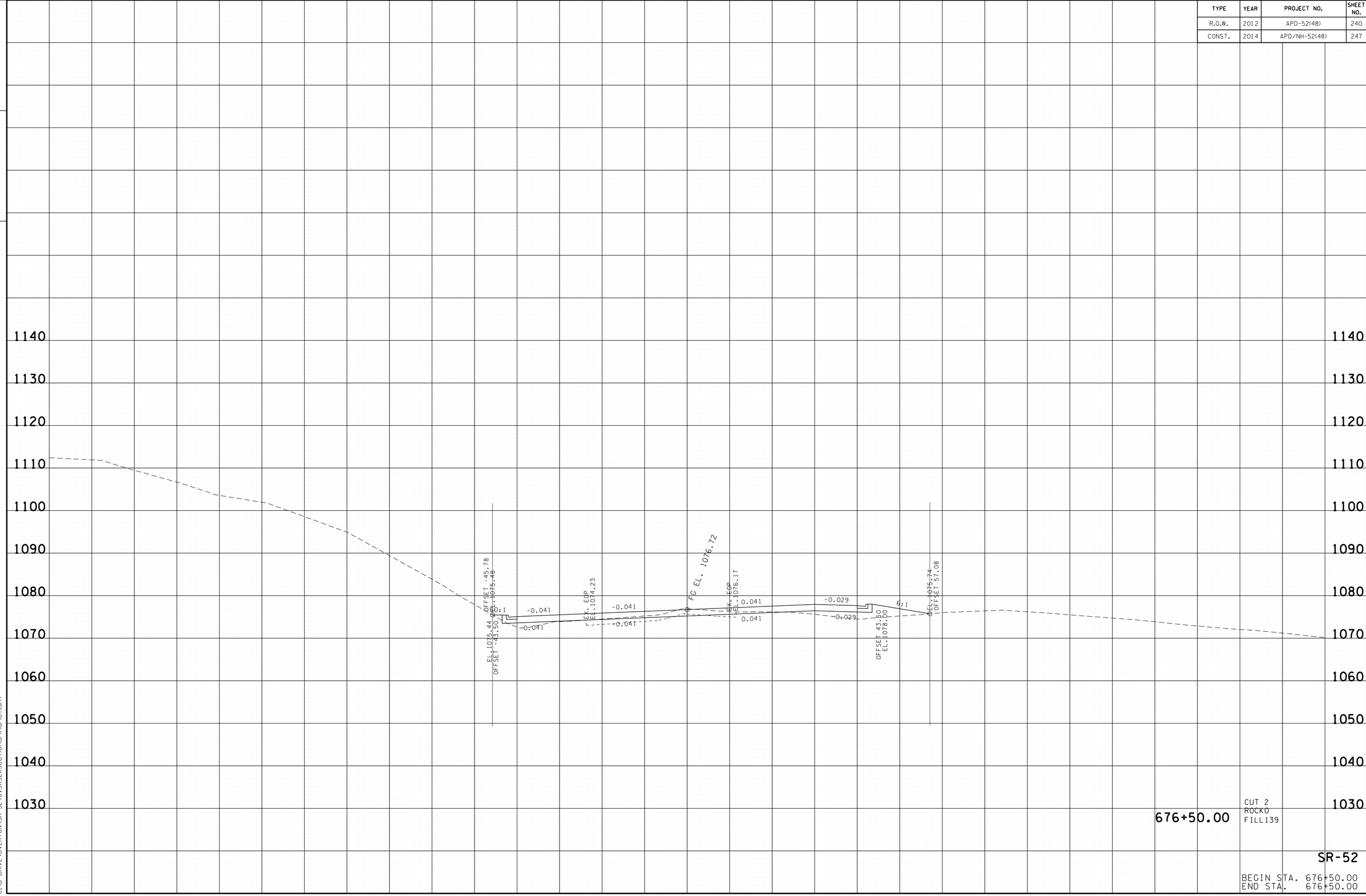
SR-52

BEGIN STA. 676+00.00
END STA. 676+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	240
CONST.	2014	APD/NH-52(48)	247

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



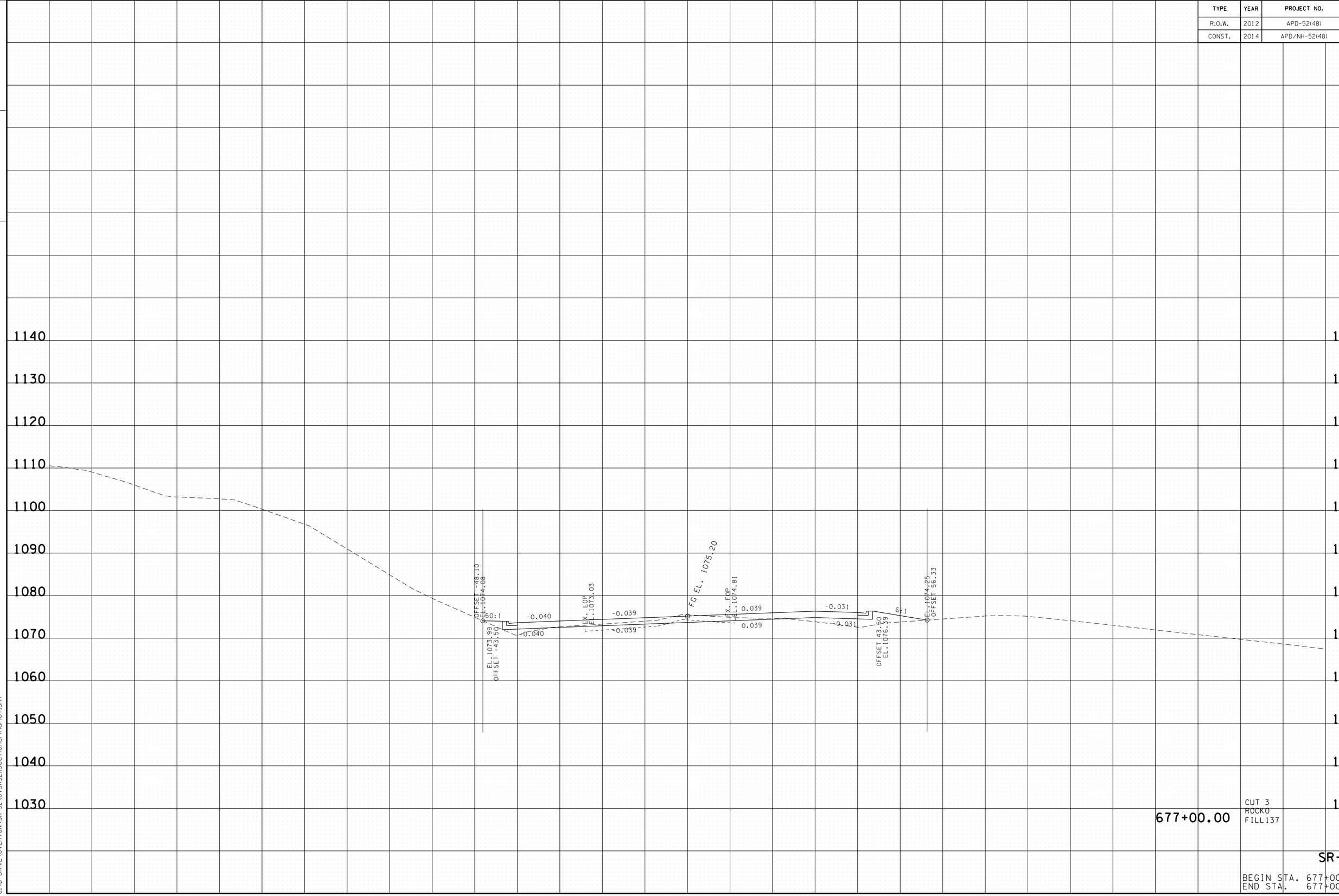
SR-52

BEGIN STA. 676+50.00
END STA. 676+50.00

22-JAN-2015 07:54
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	241
CONST.	2014	APD/NH-52(48)	248

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



677+00.00

CUT 3
ROCKO
FILL137

SR-52

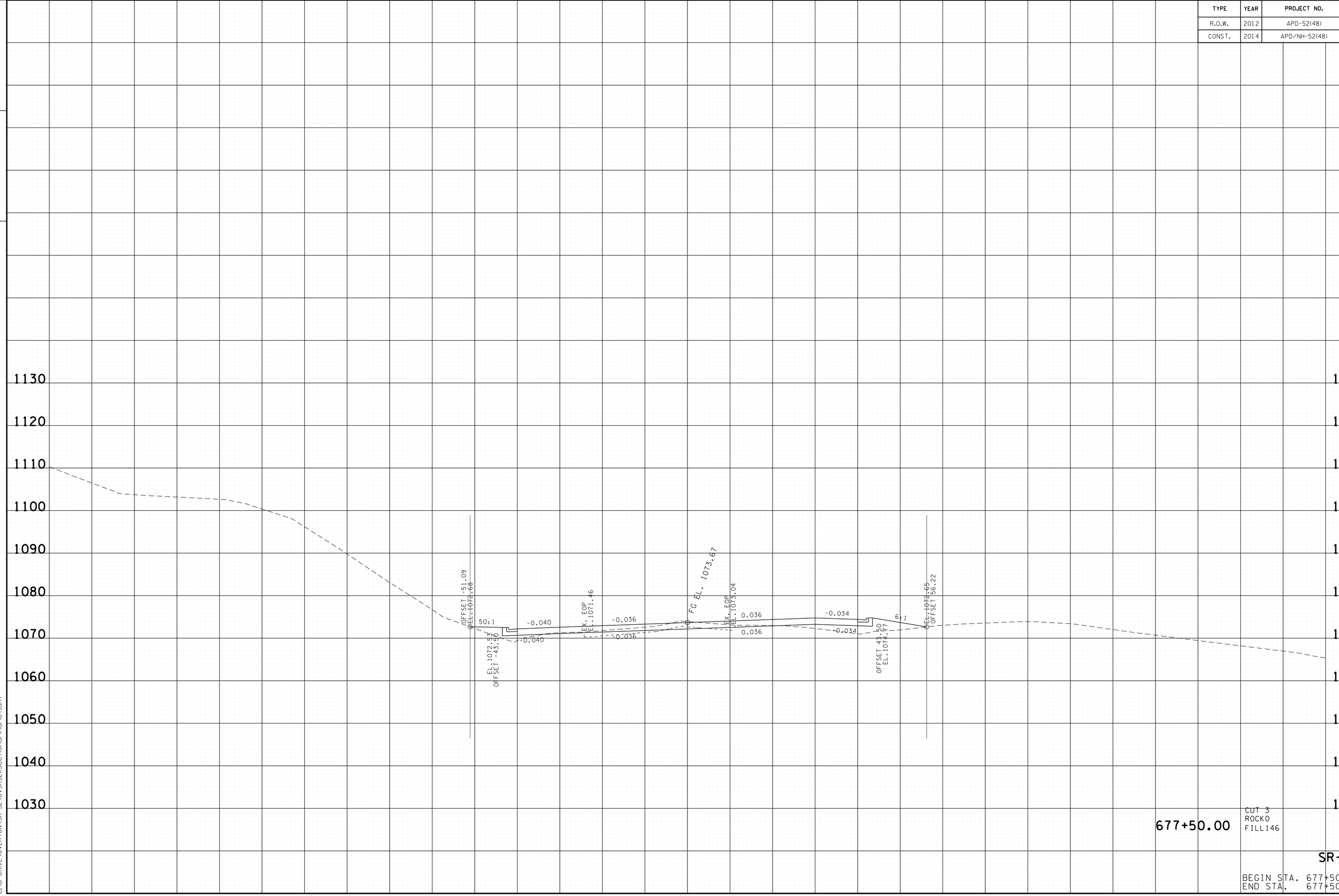
BEGIN STA. 677+00.00
END STA. 677+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	242
CONST.	2014	APD/NH-52(48)	249

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



677+50.00

CUT 3
ROCK0
FILL146

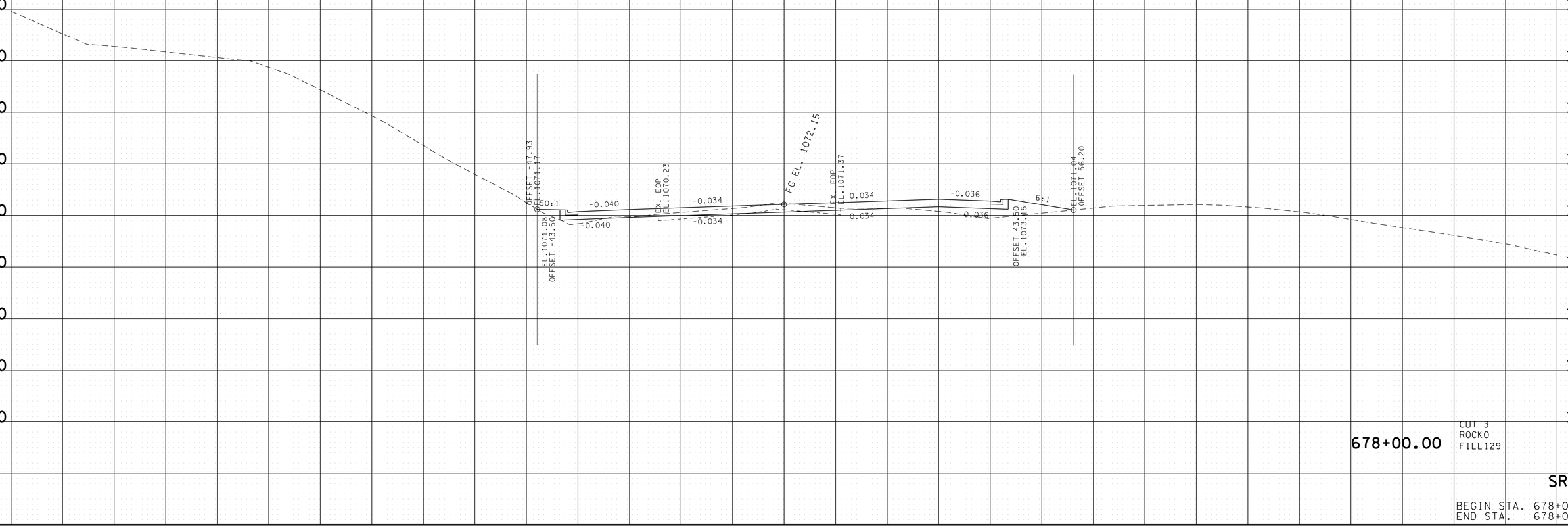
SR-52

BEGIN STA. 677+50.00
END STA. 677+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	243
CONST.	2014	APD/NH-52(48)	250

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



678+00.00

CUT 3
ROCKO
FILL129

SR-52

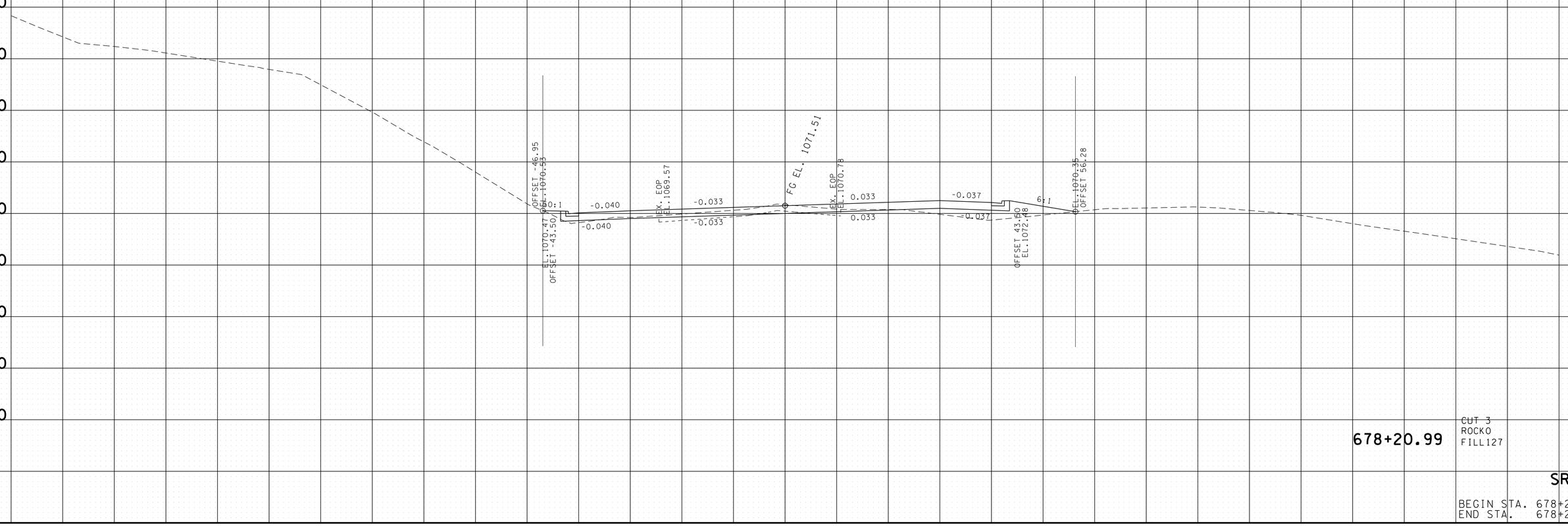
BEGIN STA. 678+00.00
END STA. 678+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	244
CONST.	2014	APD/NH-52(48)	251

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



678+20.99

CUT 3
ROCKO
FILL127

SR-52

BEGIN STA. 678+20.99
END STA. 678+20.99

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	245
CONST.	2014	APD/NH-52(48)	252

678+50.00

CUT 3
ROCK 0
FILL 132

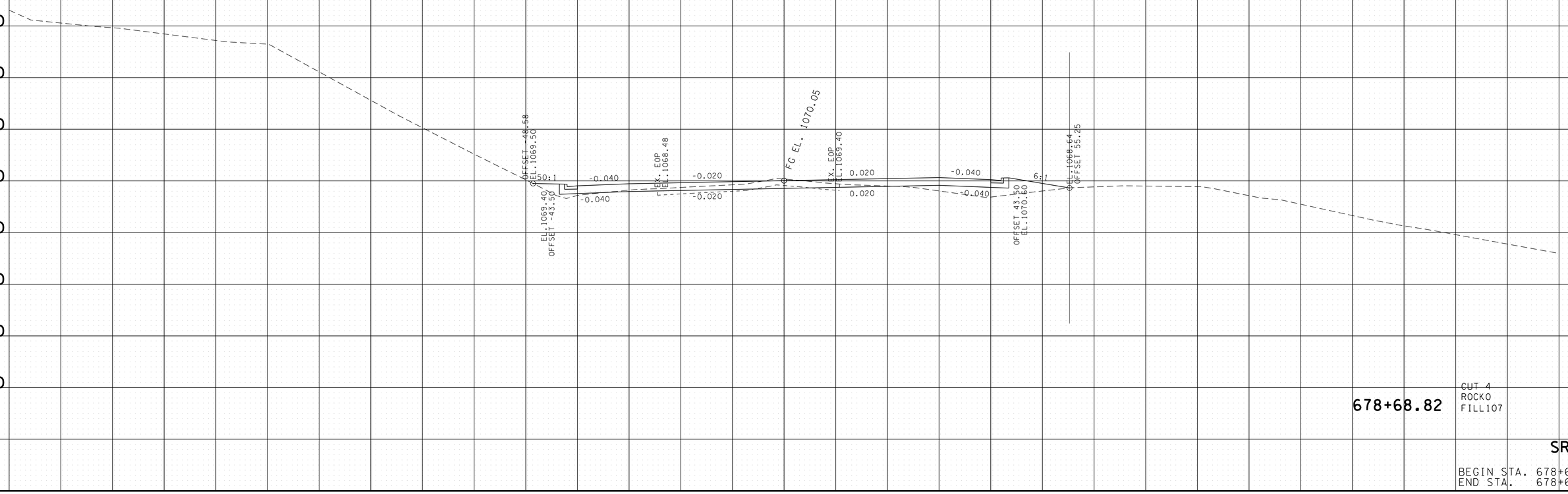
SR-52

BEGIN STA. 678+50.00
END STA. 678+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	246
CONST.	2014	APD/NH-52(48)	253

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



678+68.82

CUT 4
ROCKO
FILL107

SR-52

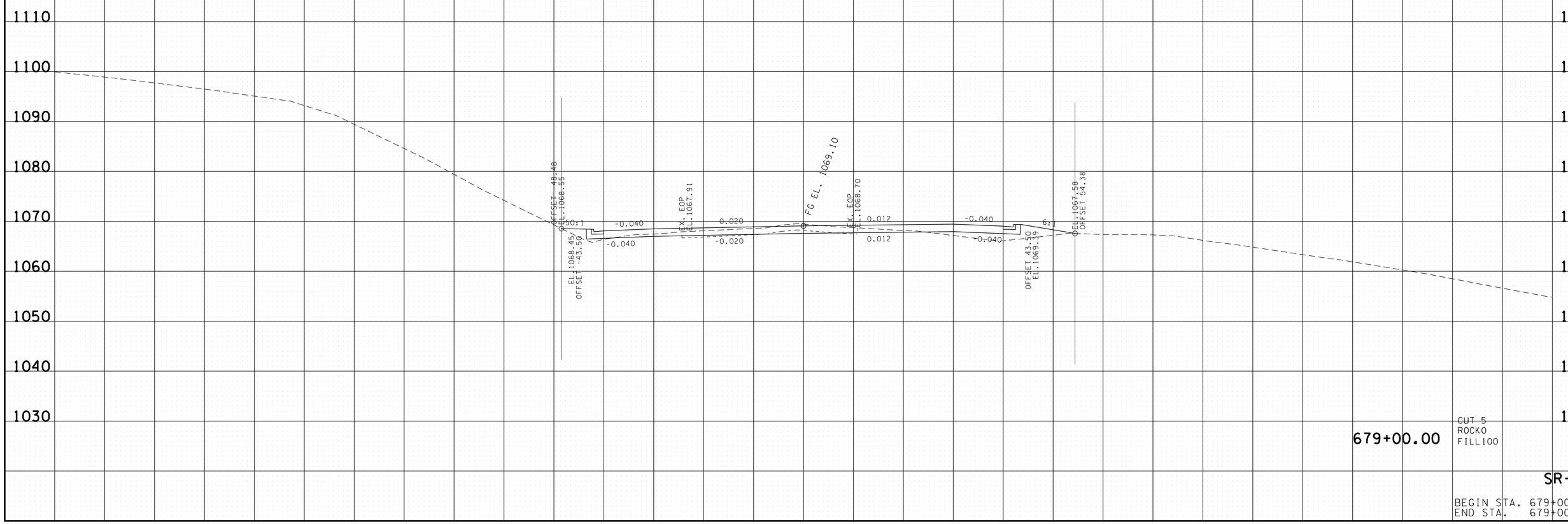
BEGIN STA. 678+68.82
END STA. 678+68.82

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	247
CONST.	2014	APD/NH-52(48)	254

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



679+00.00

CUT 5
ROCKO
FILL100

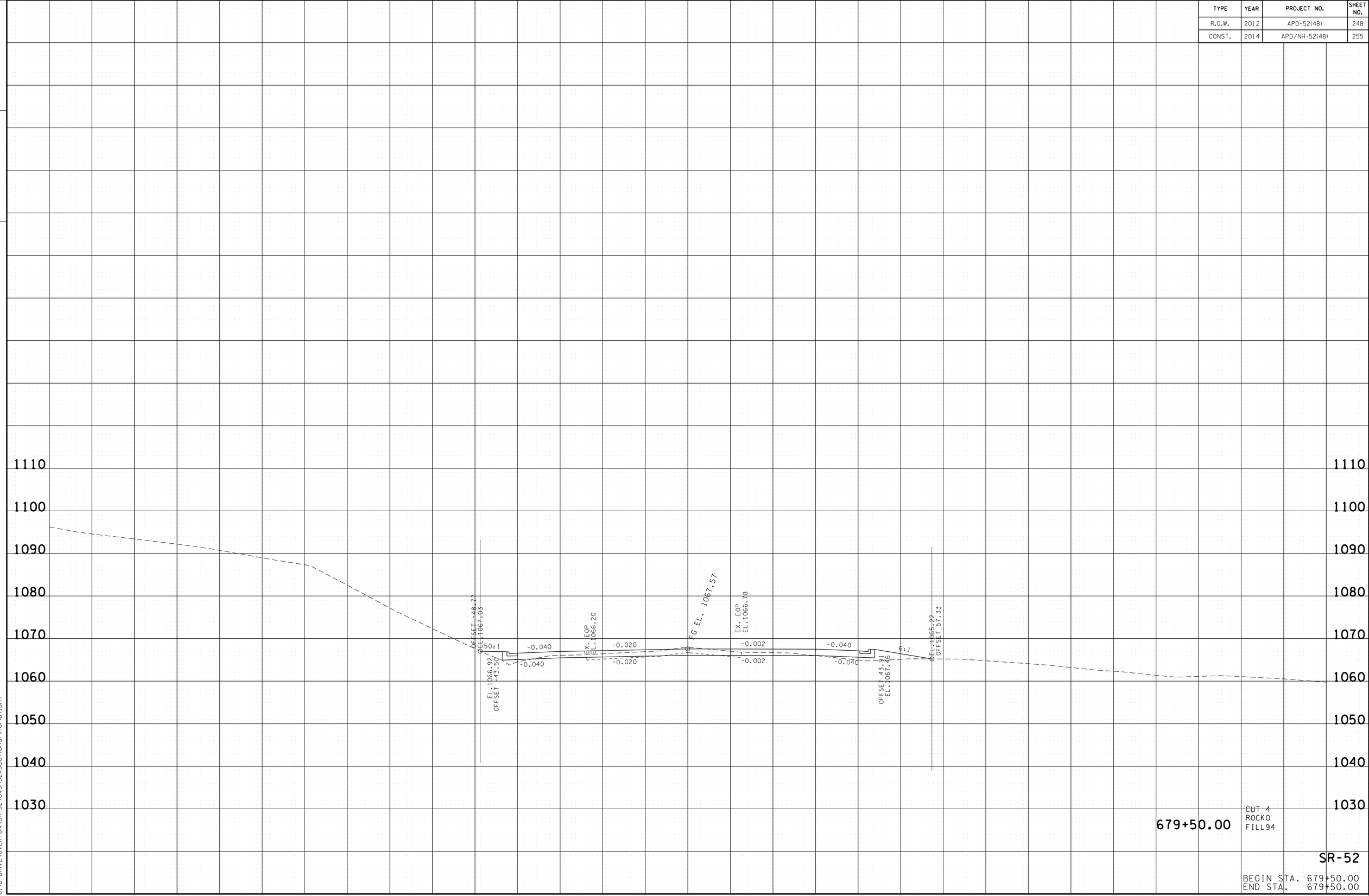
SR-52

BEGIN STA. 679+00.00
END STA. 679+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	248
CONST.	2014	APD/NH-52(48)	255

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



679+50.00

CUT 4
ROCKO
FILL94

SR-52

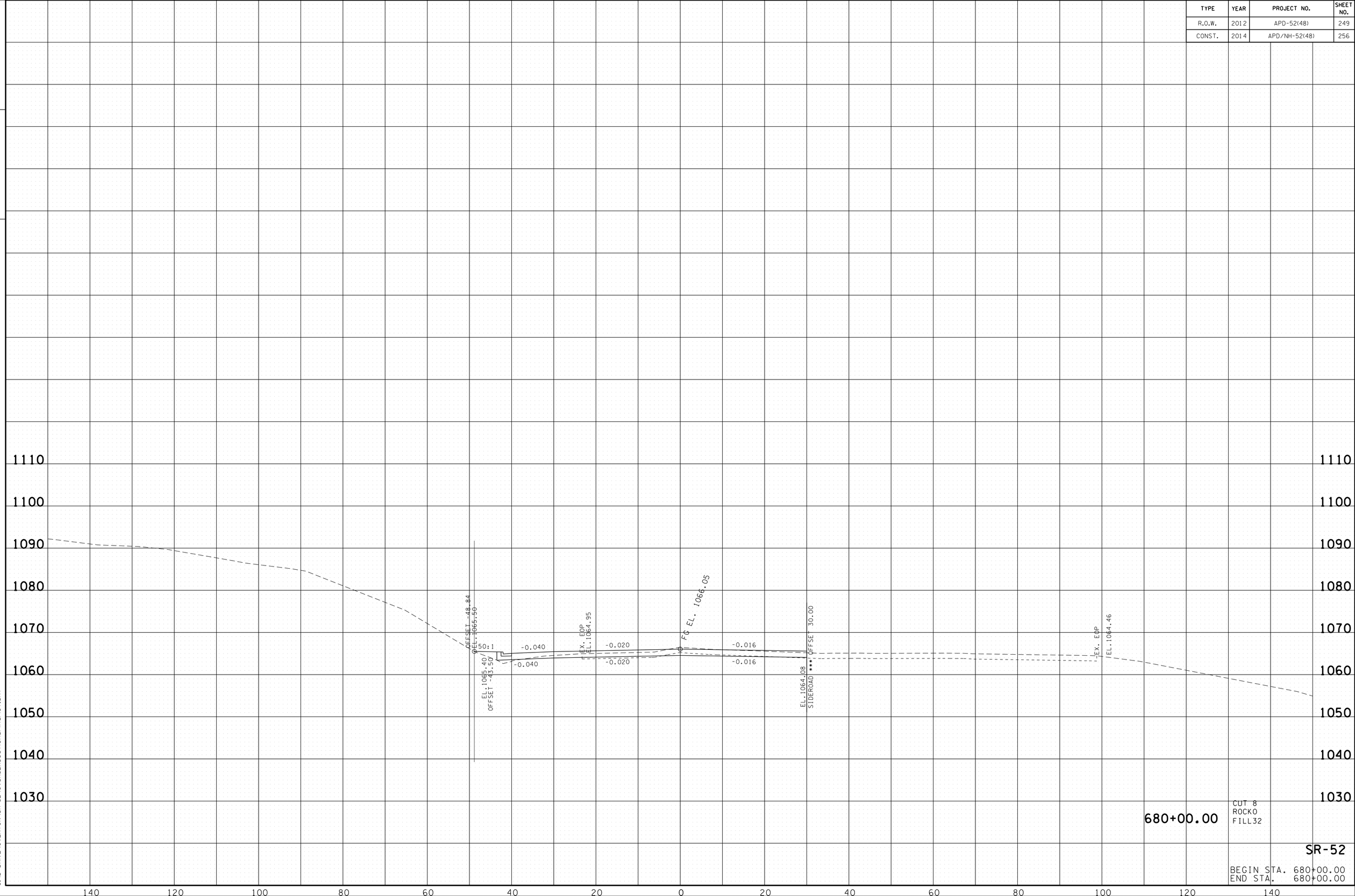
BEGIN STA. 679+50.00
END STA. 679+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	249
CONST.	2014	APD/NH-52(48)	256



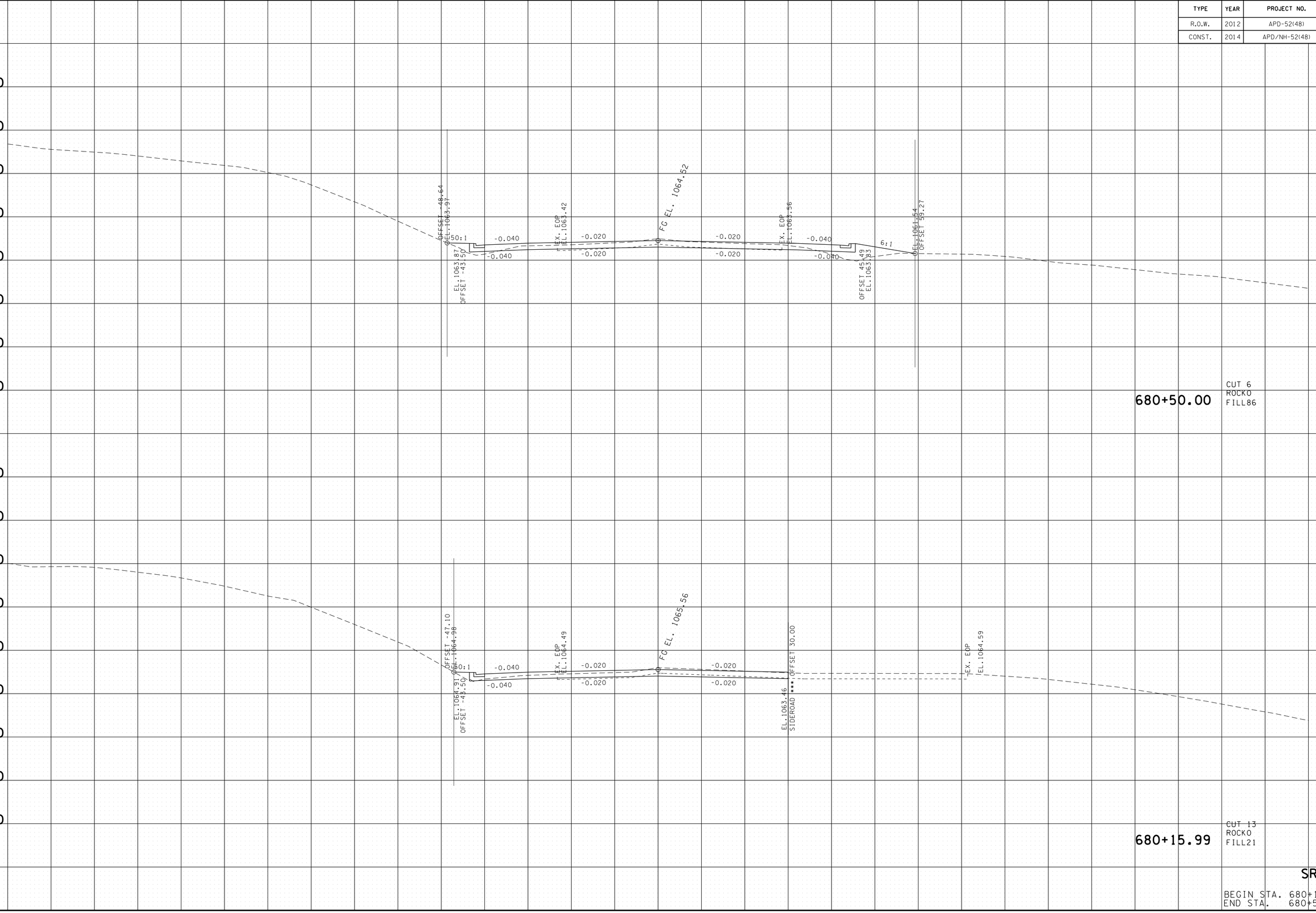
SR-52

BEGIN STA. 680+00.00
END STA. 680+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	250
CONST.	2014	APD/NH-52(48)	257

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



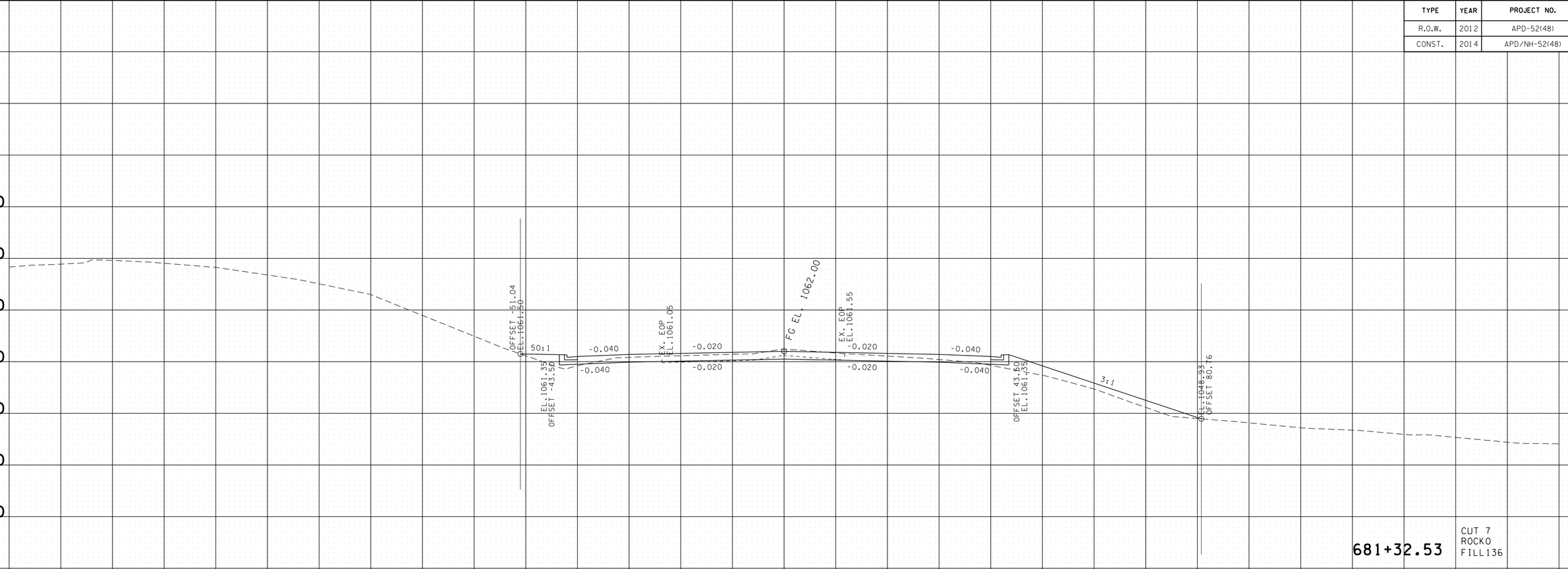
SR-52

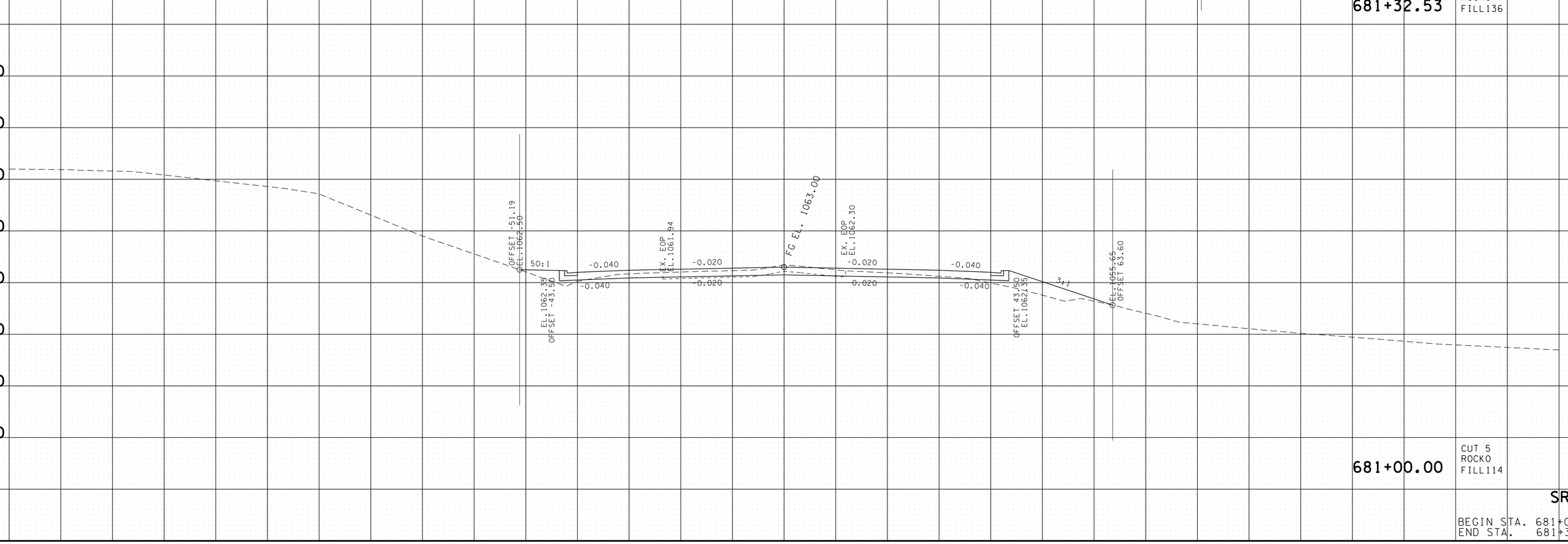
BEGIN STA. 680+15.99
END STA. 680+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	251
CONST.	2014	APD/NH-52(48)	258

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





SR-52

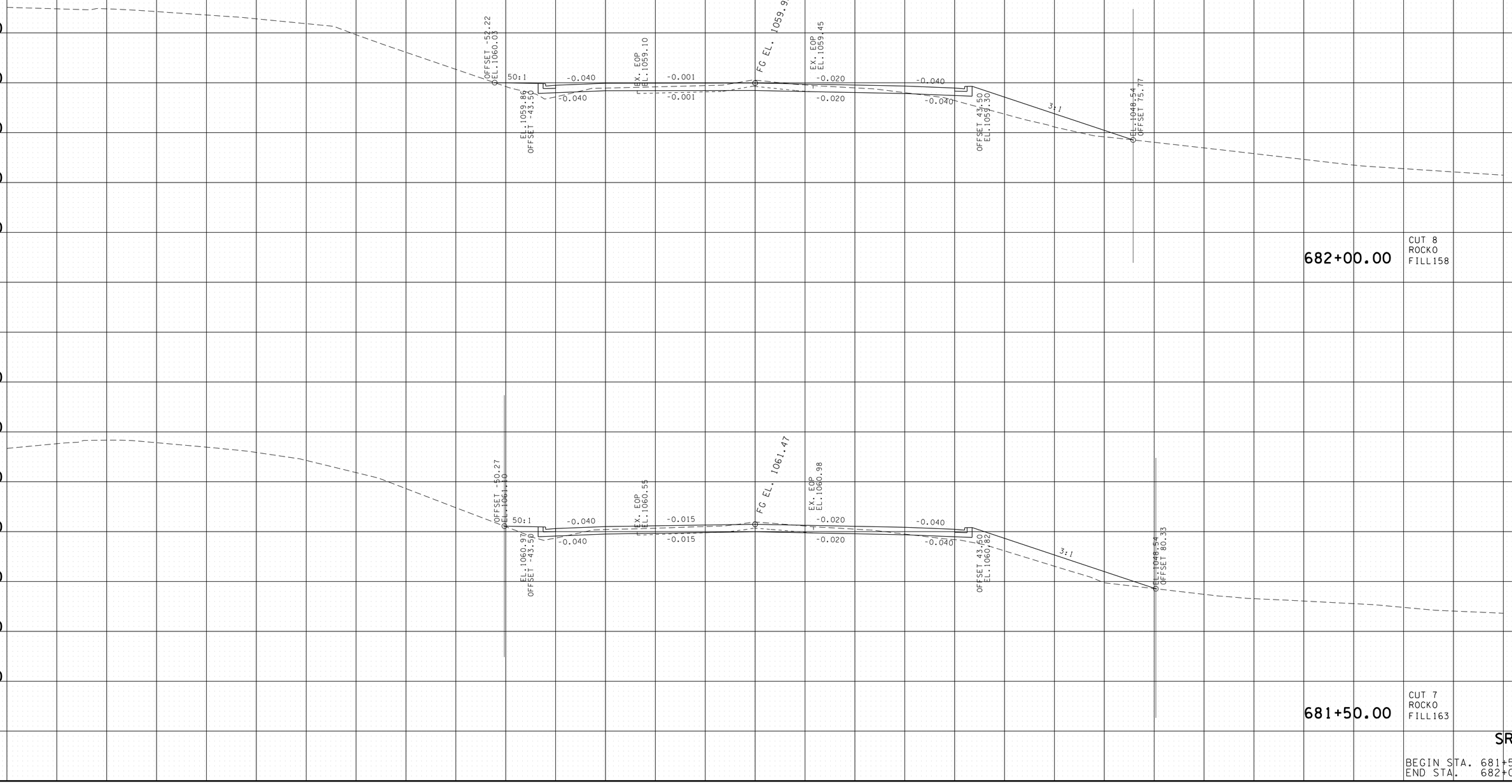
BEGIN STA. 681+00.00
END STA. 681+32.53

22-JAN-2015 07:54
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	252
CONST.	2014	APD/NH-52(48)	259

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



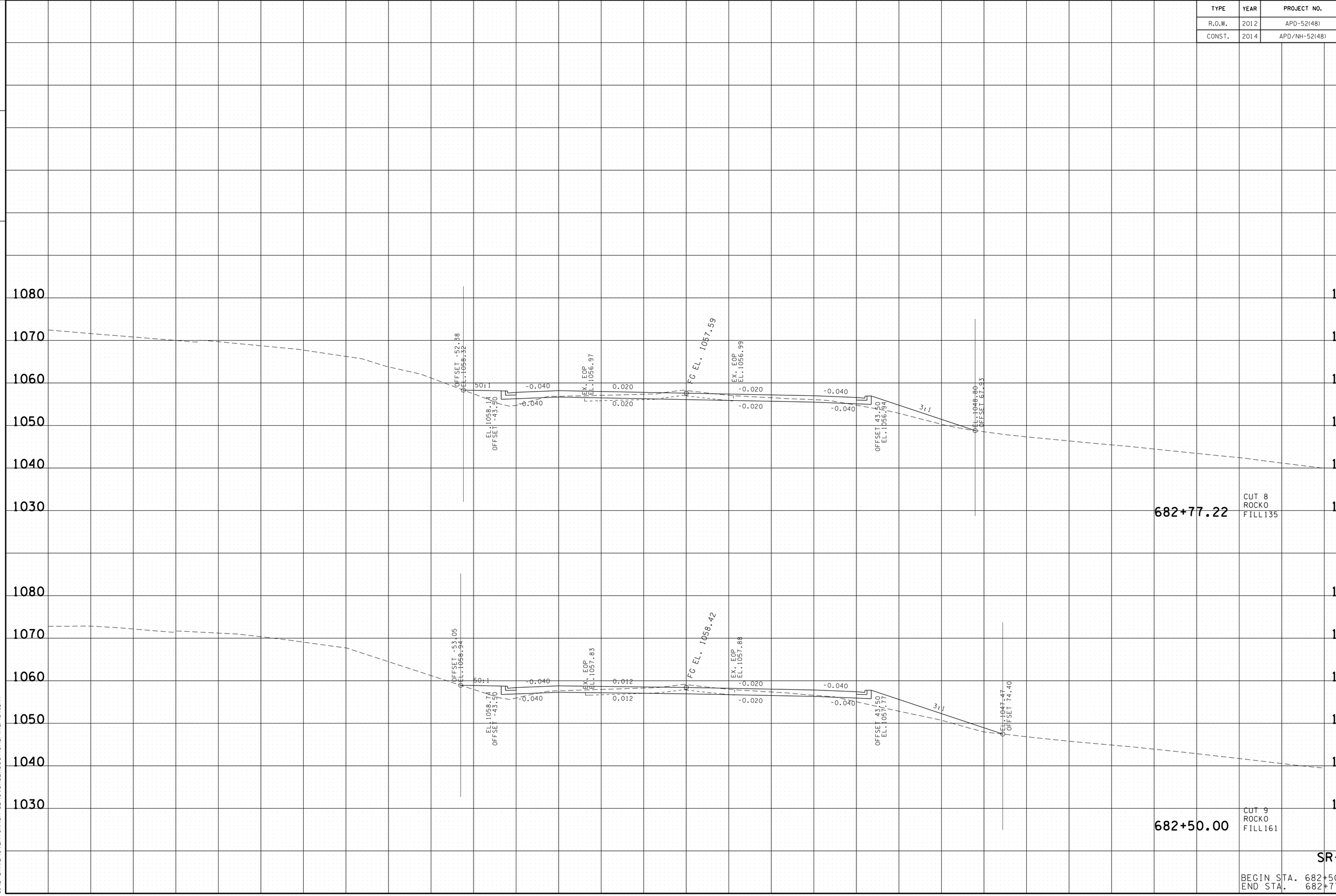
SR-52

BEGIN STA. 681+50.00
END STA. 682+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	253
CONST.	2014	APD/NH-52(48)	260

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



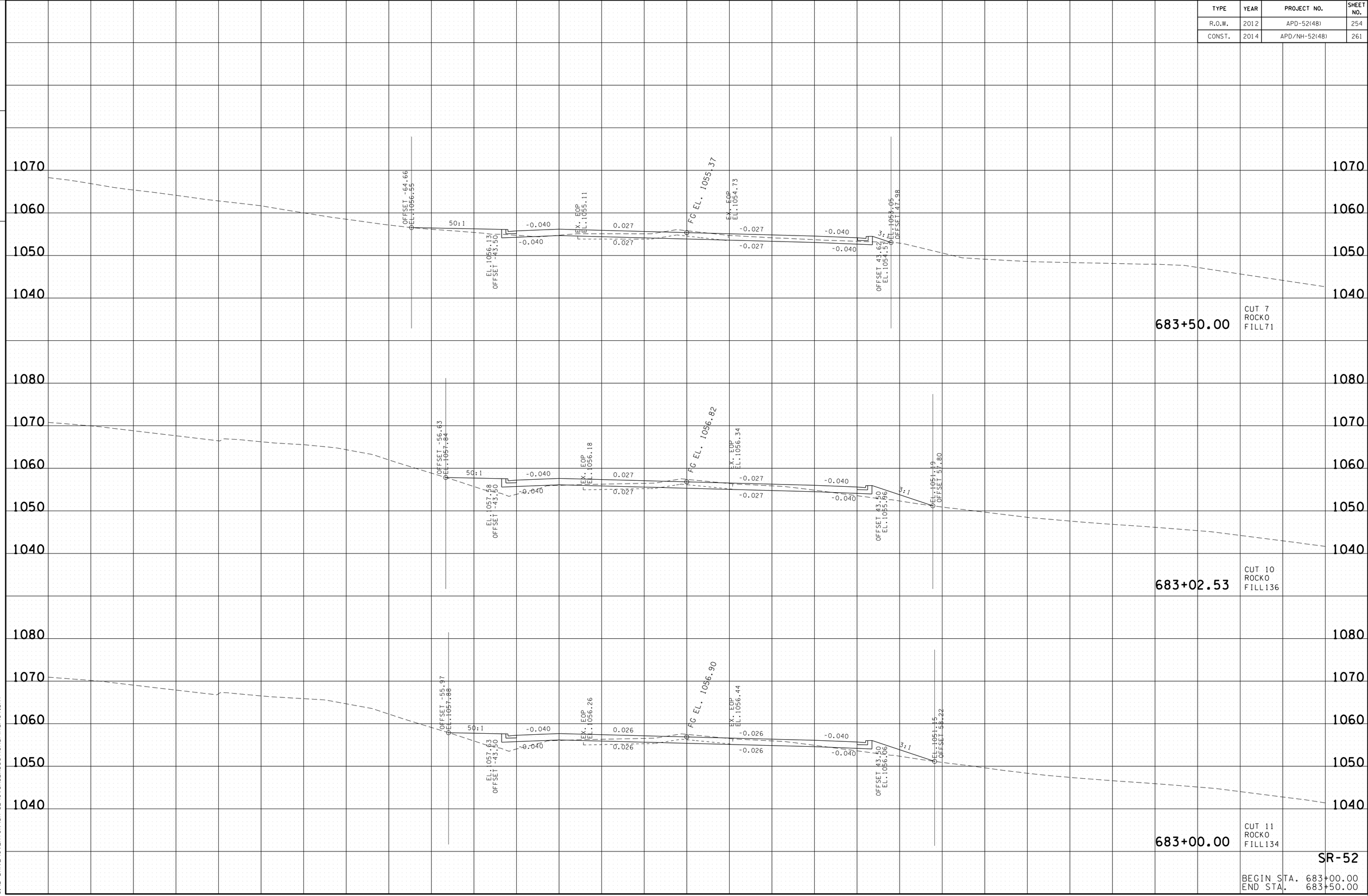
SR-52

BEGIN STA. 682+50.00
END STA. 682+77.22

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	254
CONST.	2014	APD/NH-52(48)	261

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



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C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	255
CONST.	2014	APD/NH-52(48)	262

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

1060
1050
1040
1070

OFFSET -74.30
EL.1049.74
EL.. 045.83
4:1
EL.1051.56
OFFSET -43.50
-0.040
0.027
EX. EOP
EL.1050.78
FG EL. 1050.80
EX. EOP
EL.1050.06
-0.027
-0.040
PREBENCHING
OFFSET 43.71
EL.1049.93
2:1
EL. 1035.07
OFFSET 75.84

685+00.00
CUT 7
ROCKO
FILL278

OFFSET -56.44
EL.1050.91
4:1
EL.1053.08
OFFSET -43.50
EX. EOP
EL.1052.32
FG EL. 1052.32
EX. EOP
EL.1051.54
OFFSET 43.68
EL.1051.46
3:1
EL. 1046.25
OFFSET 63.25

684+50.00
CUT 7
ROCKO
FILL144

OFFSET -63.49
EL.1055.01
50:1
EL.1054.60
OFFSET -43.50
EX. EOP
EL.1053.53
FG EL. 1053.85
EX. EOP
EL.1053.19
OFFSET 43.65
EL.1052.98
3:1
EL. 1048.68
OFFSET 57.03

684+00.00
CUT 6
ROCKO
FILL119

SR-52
BEGIN STA. 684+00.00
END STA. 685+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

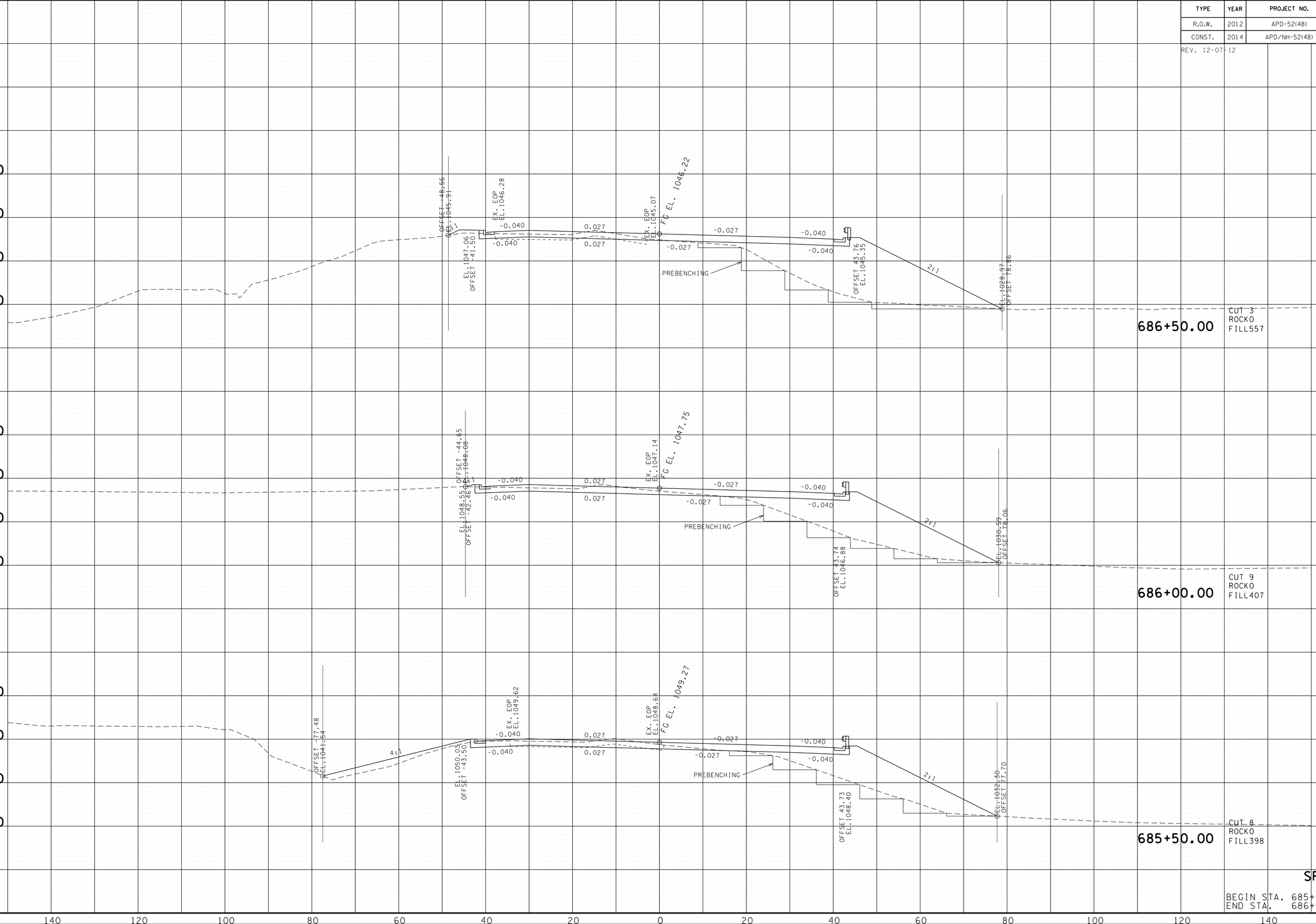
22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	256
CONST.	2014	APD/NH-52(48)	263

REV. 12-07-12



SR-52

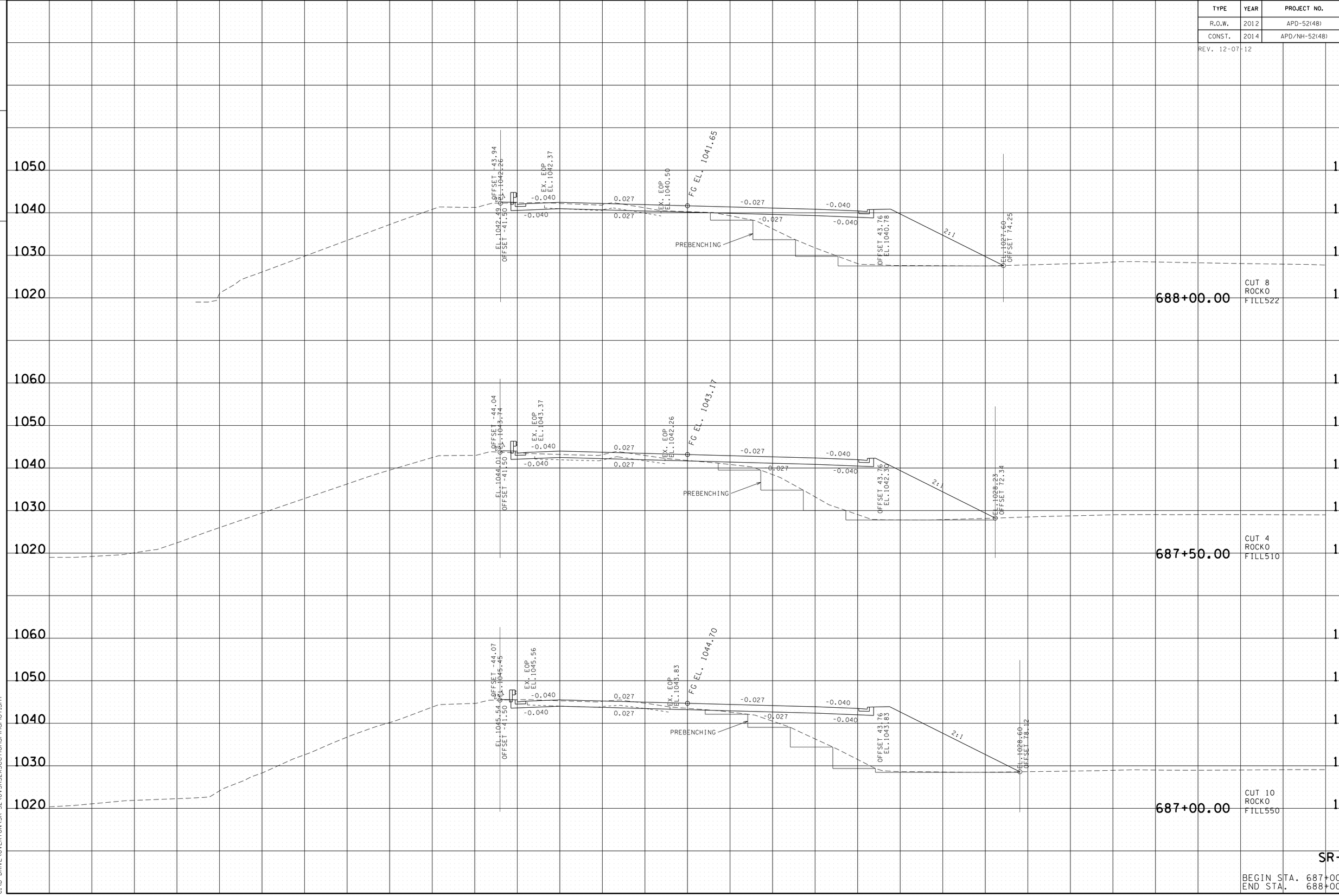
BEGIN STA. 685+50.00
END STA. 686+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	257
CONST.	2014	APD/NH-52(48)	264

REV. 12-07-12

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



SR-52

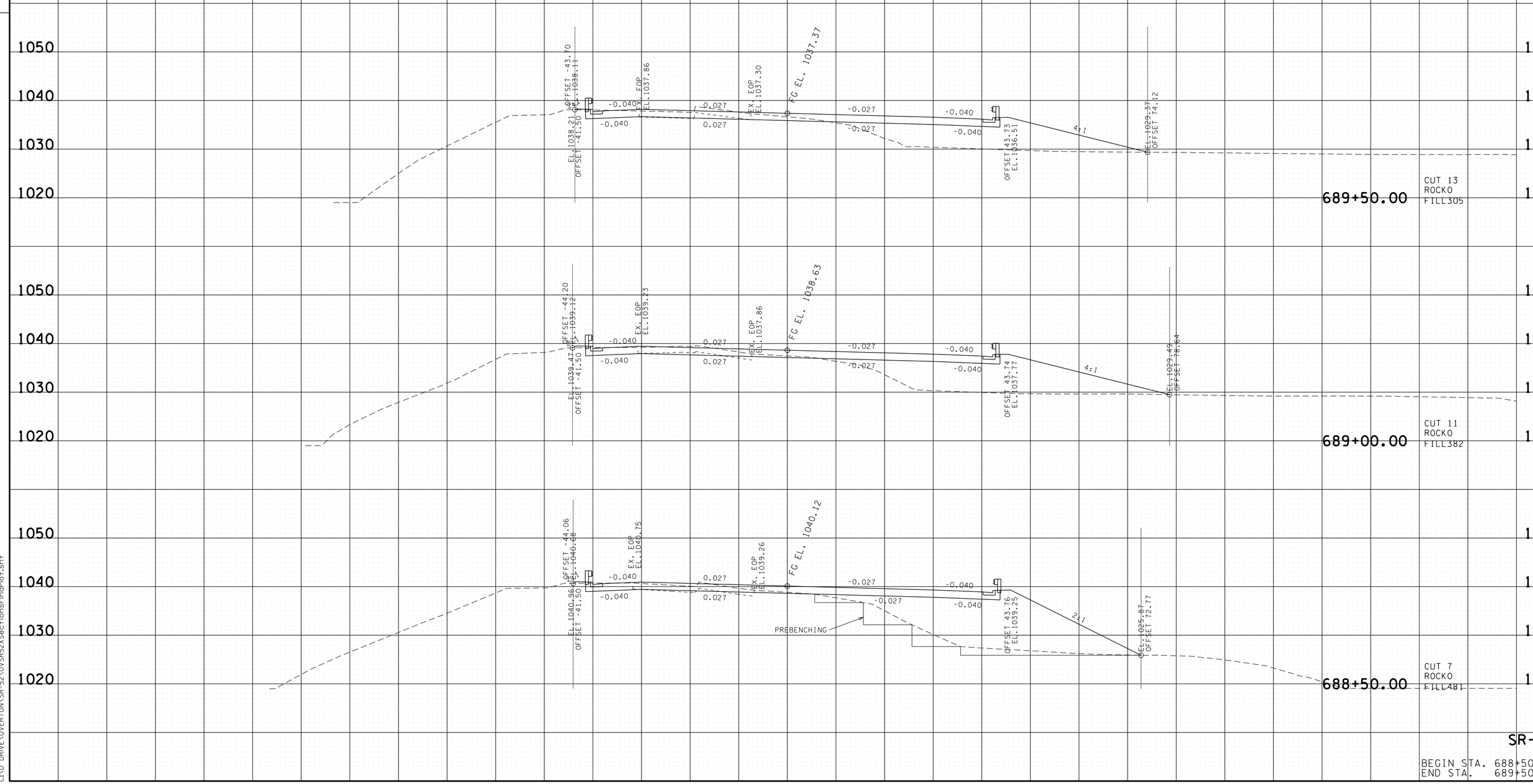
BEGIN STA. 687+00.00
END STA. 688+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	258
CONST.	2014	APD/NH-52(48)	265

REV. 12-07-12

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



SR-52

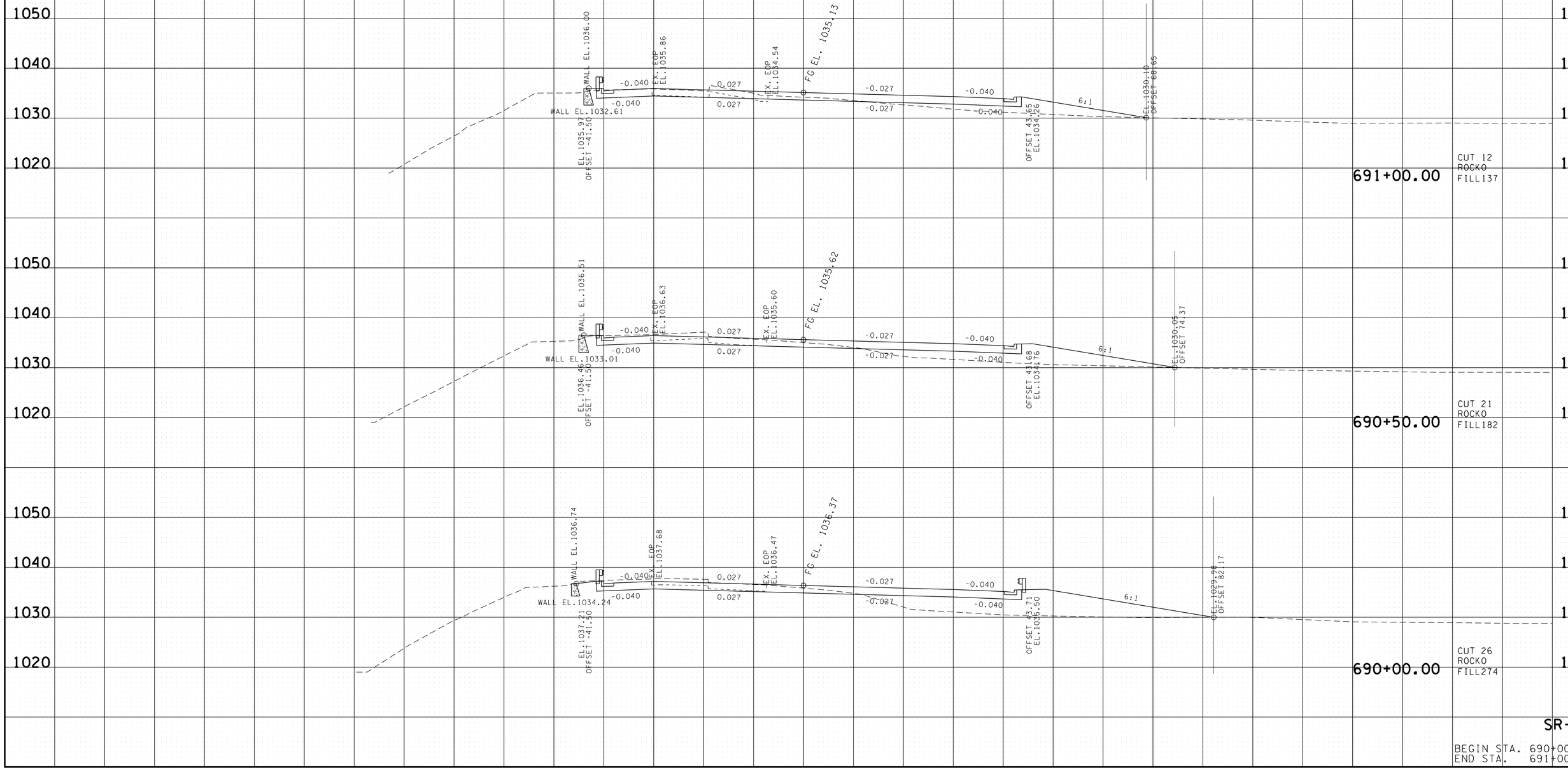
BEGIN STA. 688+50.00
END STA. 689+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	259
CONST.	2014	APD/NH-52(48)	266

REV. 12-07-12

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



SR-52

BEGIN STA. 690+00.00
END STA. 691+00.00

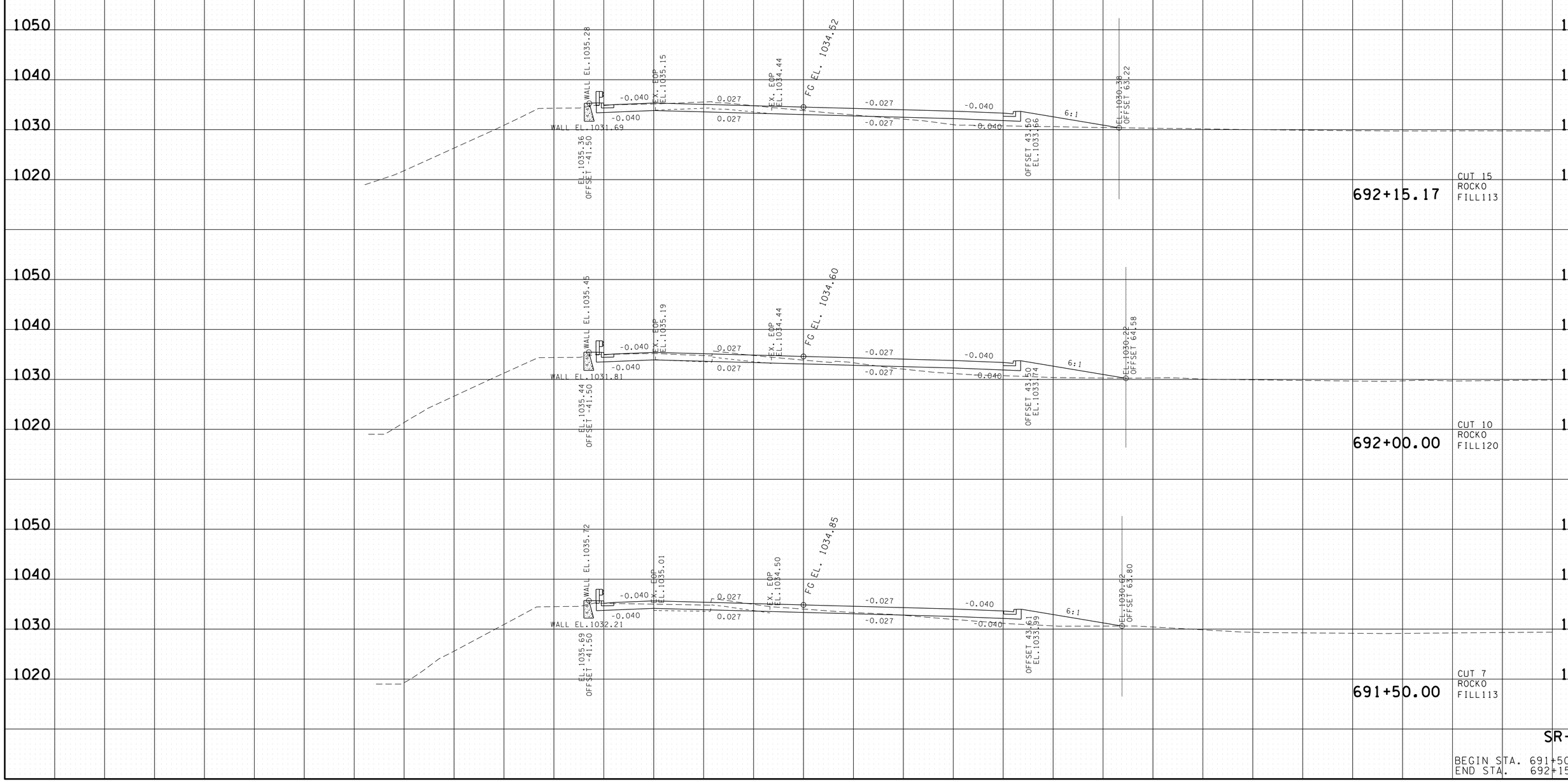
22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	260
CONST.	2014	APD/NH-52(48)	267

REV. 12-07-12

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-52

BEGIN STA. 691+50.00
END STA. 692+15.17

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	261
CONST.	2014	APD/NH-52(48)	268

REV. 12-07-12

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

SR-52

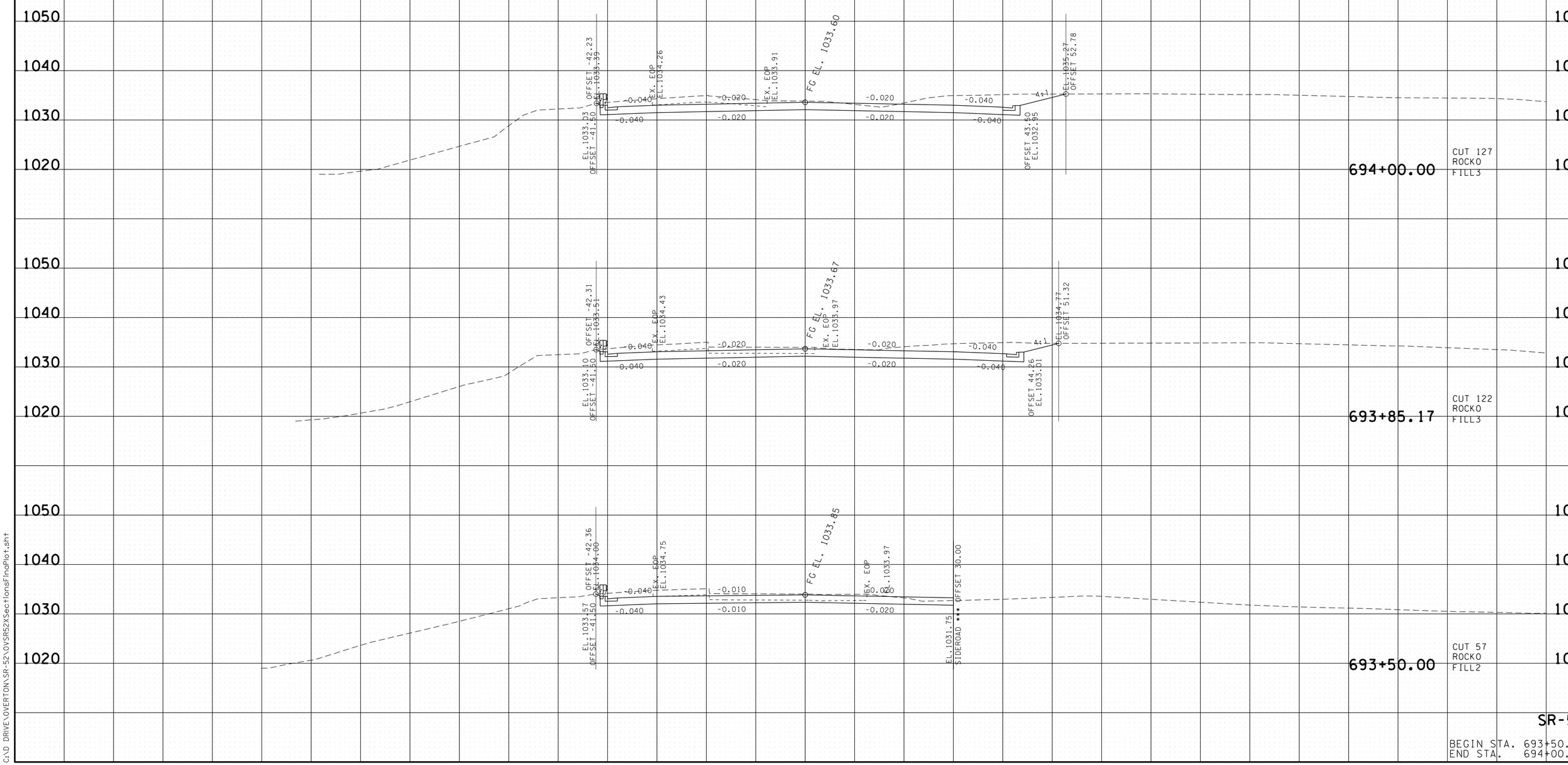
BEGIN STA. 692+40.49
END STA. 693+00.00

22-JAN-2015 07:54
C:\D_DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	262
CONST.	2014	APD/NH-52(48)	269

REV. 12-07-12

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



SR-52

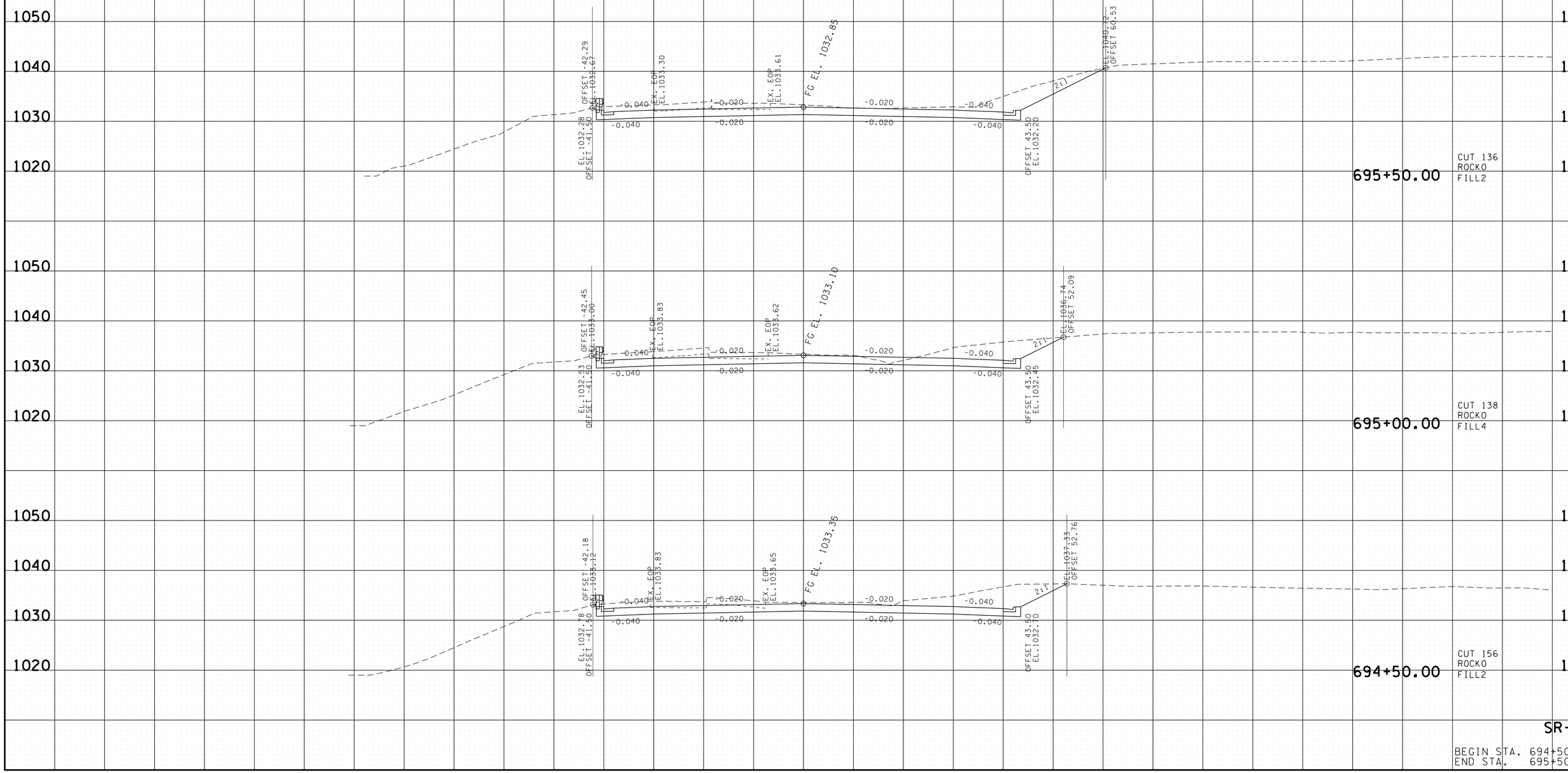
BEGIN STA. 693+50.00
END STA. 694+00.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	263
CONST.	2014	APD/NH-52(48)	270

REV. 12-07-12

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



SR-52

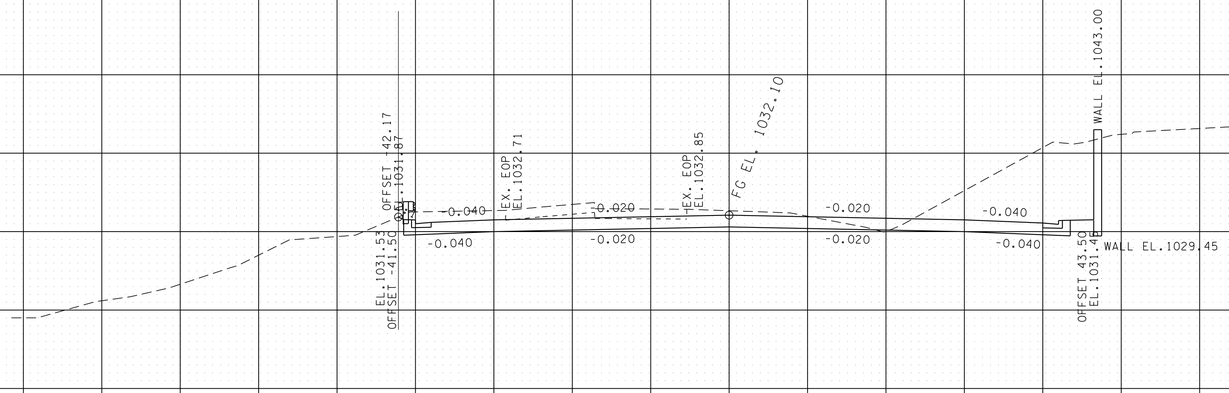
BEGIN STA. 694+50.00
END STA. 695+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

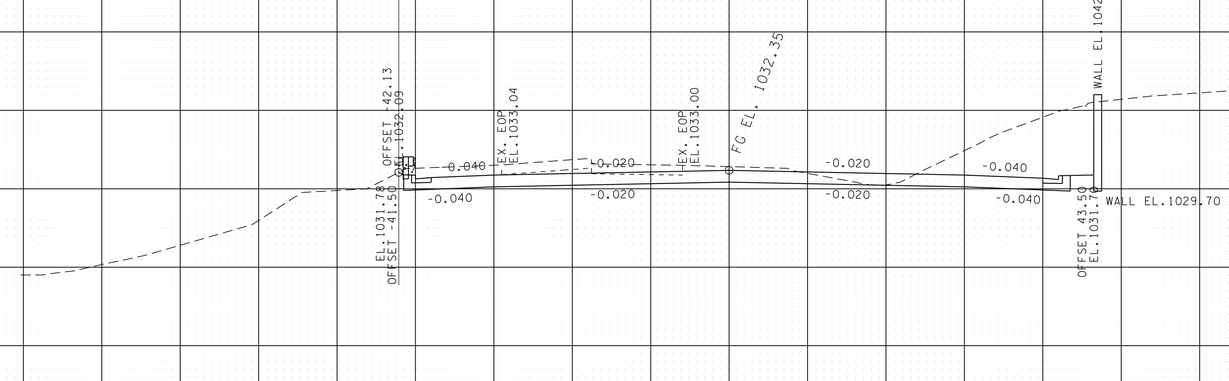
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	264
CONST.	2014	APD/NH-52(48)	271

REV. 12-07-12

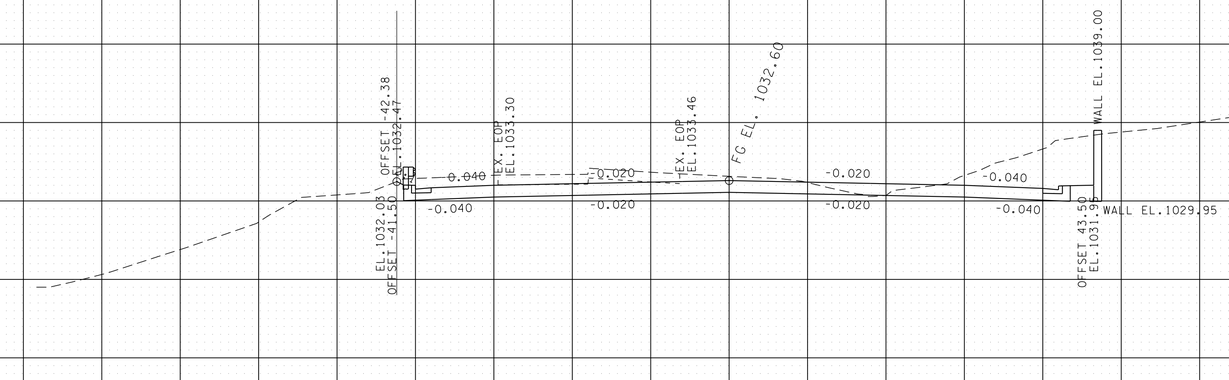
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



697+00.00 CUT 227 ROCKO FILL1



696+50.00 CUT 201 ROCKO FILL1



696+00.00 CUT 155 ROCKO FILL1

SR-52

BEGIN STA. 696+00.00
END STA. 697+00.00

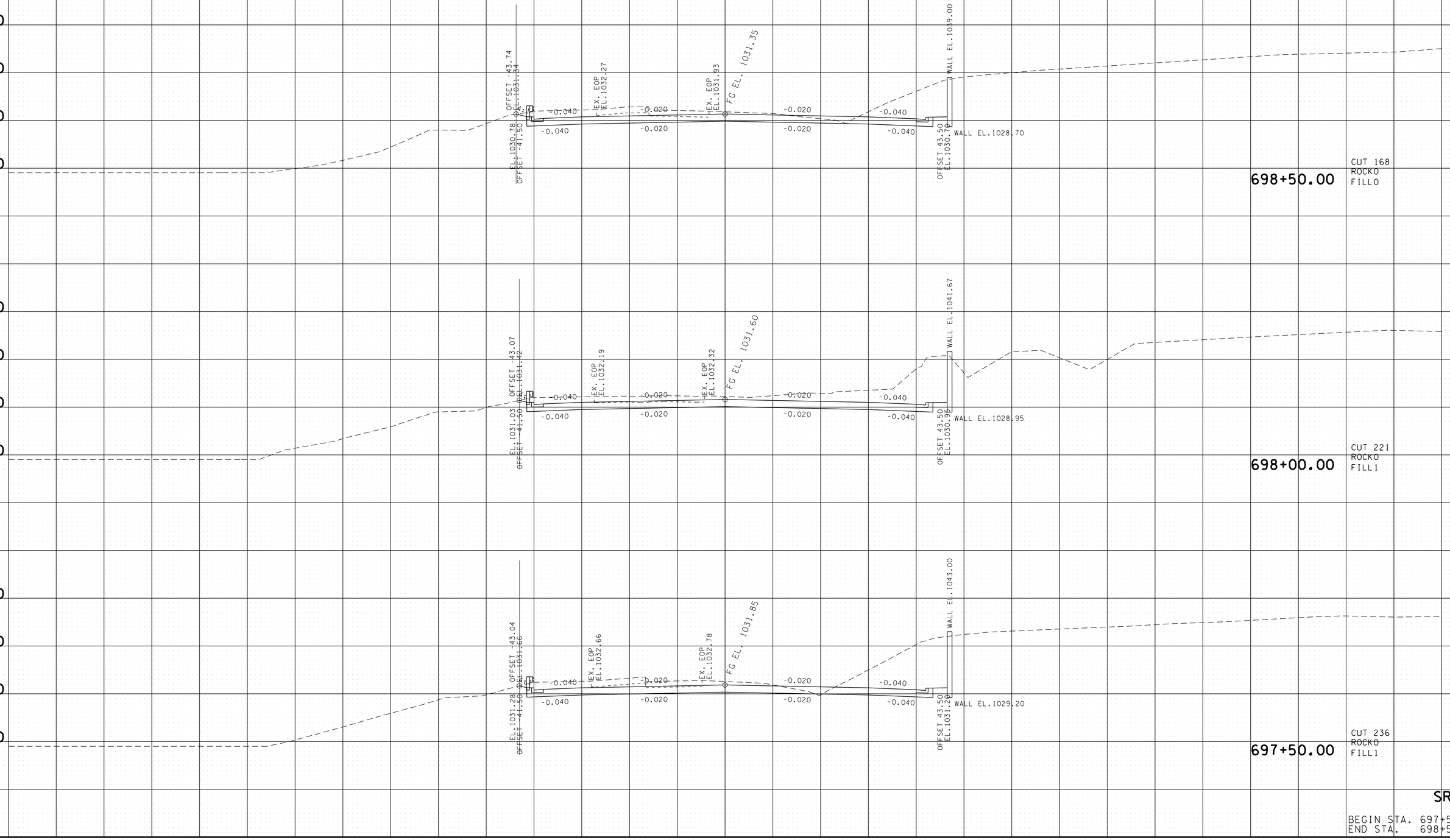
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	265
CONST.	2014	APD/NH-52(48)	272

REV. 12-07-12

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



SR-52

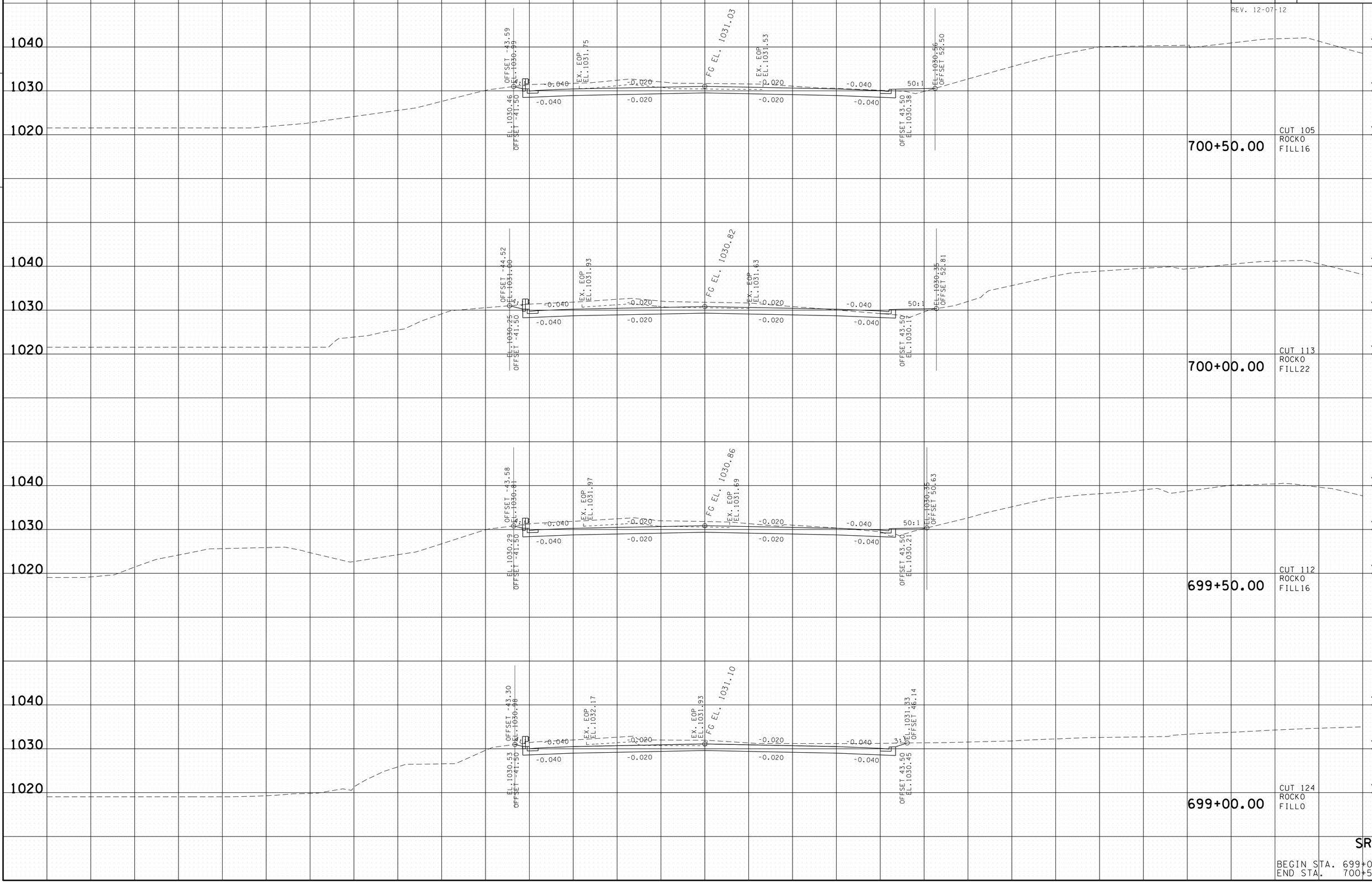
BEGIN STA. 697+50.00
END STA. 698+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVSR52XSectionsFinalPlot.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	266
CONST.	2014	APD/NH-52(48)	273

REV. 12-07-12

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



SR-52

BEGIN STA. 699+00.00
END STA. 700+50.00

22-JAN-2015 07:54
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	267
CONST.	2014	APD/NH-52(48)	274

REV. 12-07-12

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

SR-52

BEGIN STA. 701+00.00
END STA. 702+00.00

22-JAN-2015 07:54
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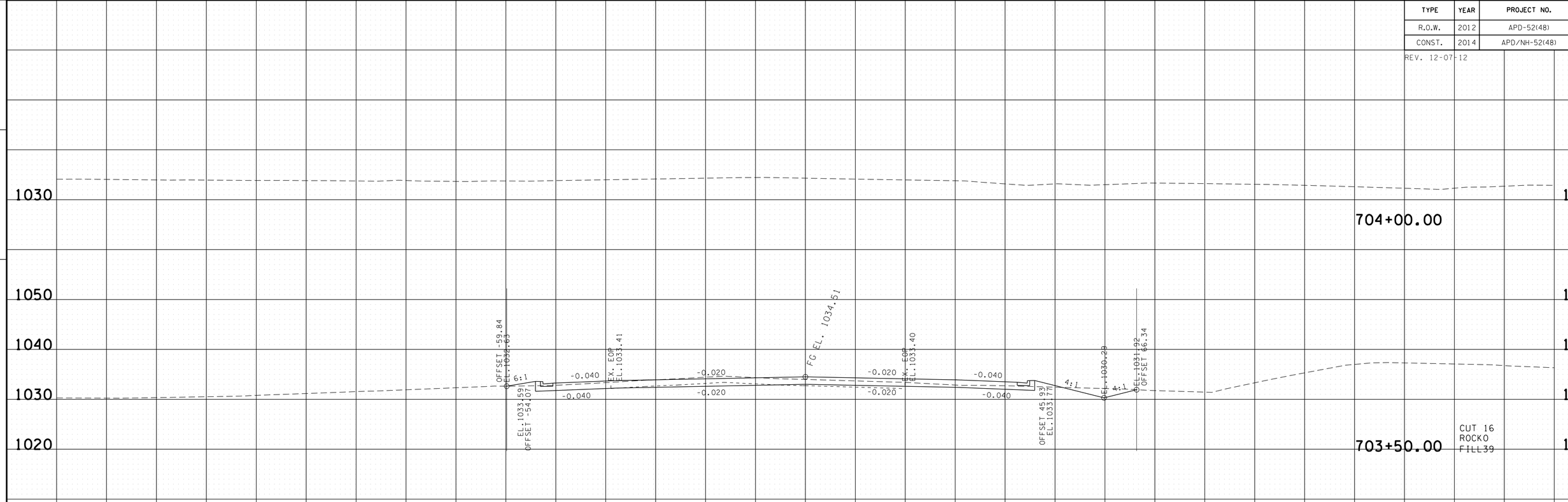
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	268
CONST.	2014	APD/NH-52(48)	275

REV. 12-07-12

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-52

BEGIN STA. 702+50.00
END STA. 704+00.00

22-JAN-2015 07:54
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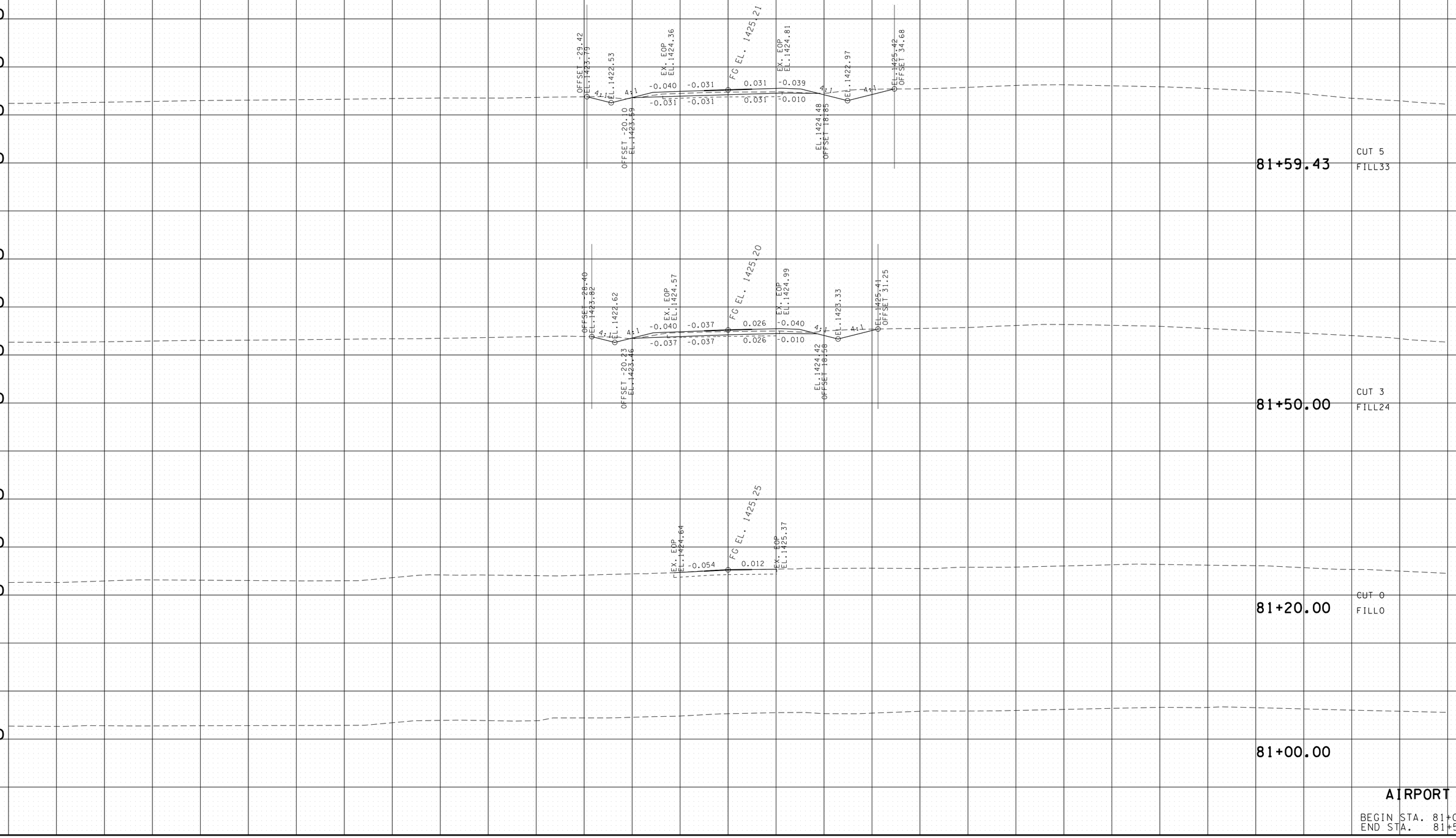
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	269
CONST.	2014	APD/NH-52(48)	276

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



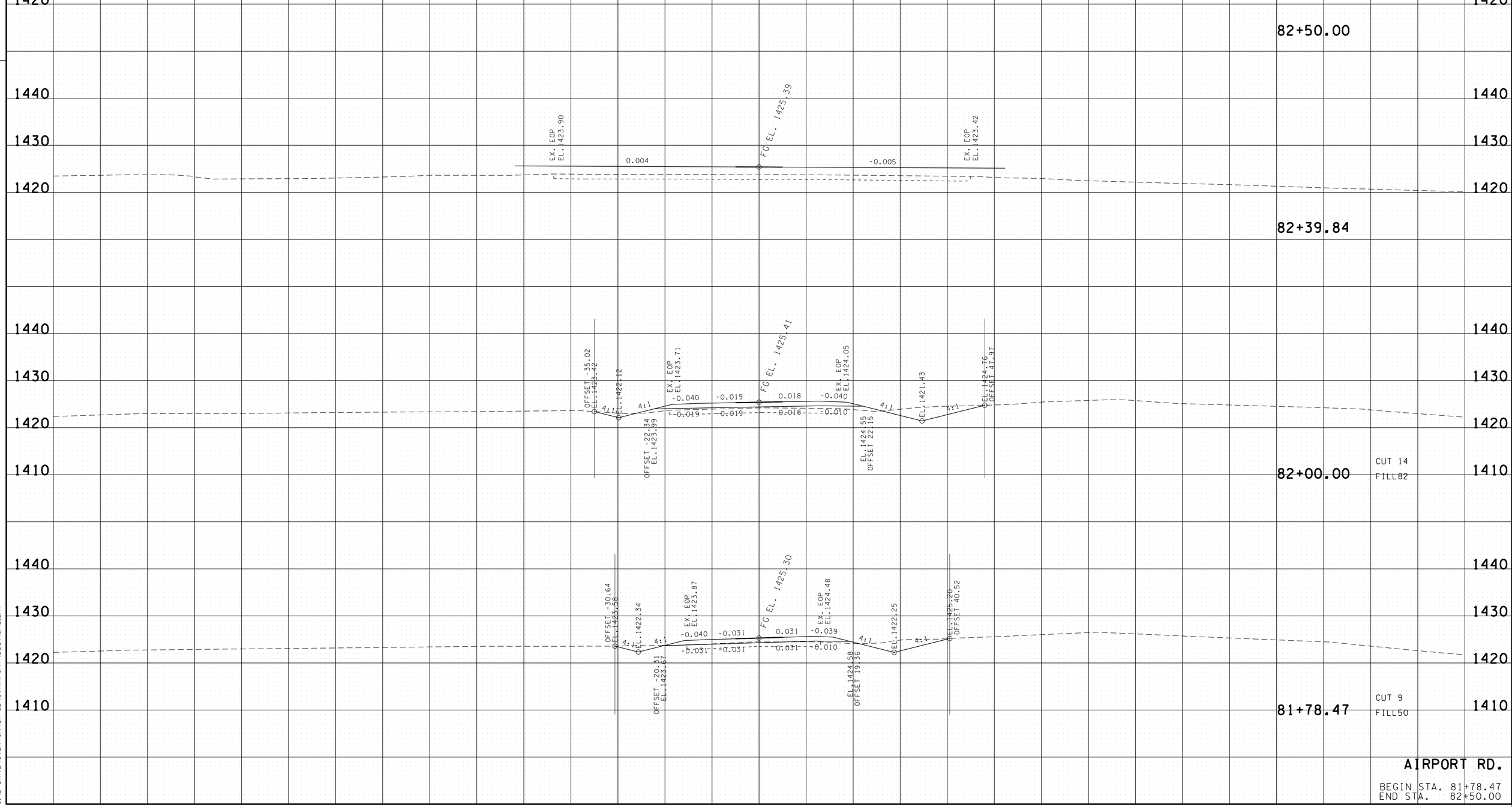
AIRPORT RD.

BEGIN STA. 81+00.00
END STA. 81+59.43

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVAIRPORTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	270
CONST.	2014	APD/NH-52(48)	277

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



AIRPORT RD.

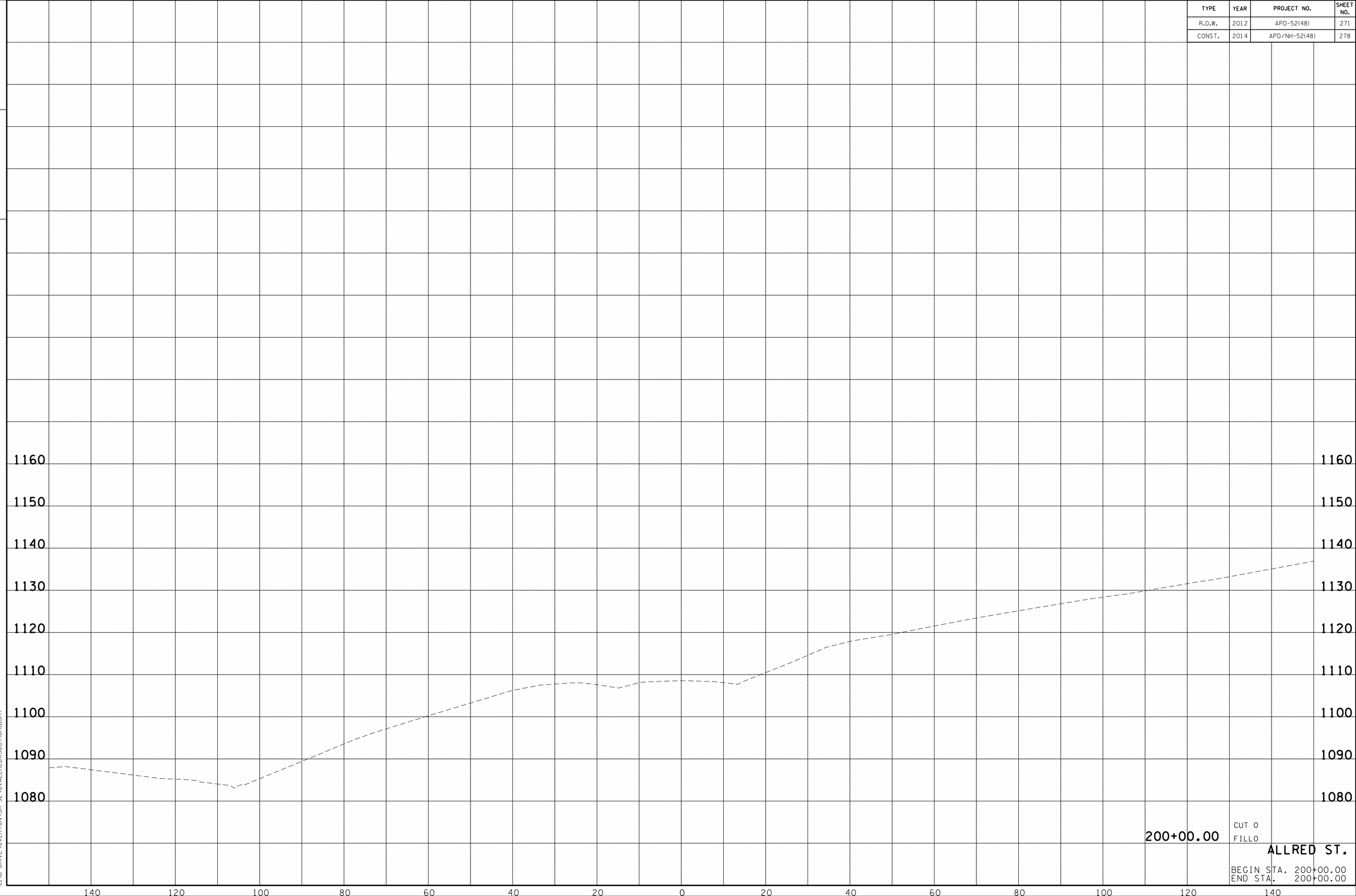
BEGIN STA. 81+78.47
END STA. 82+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVAIRPORTXSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	271
CONST.	2014	APD/NH-52(48)	278

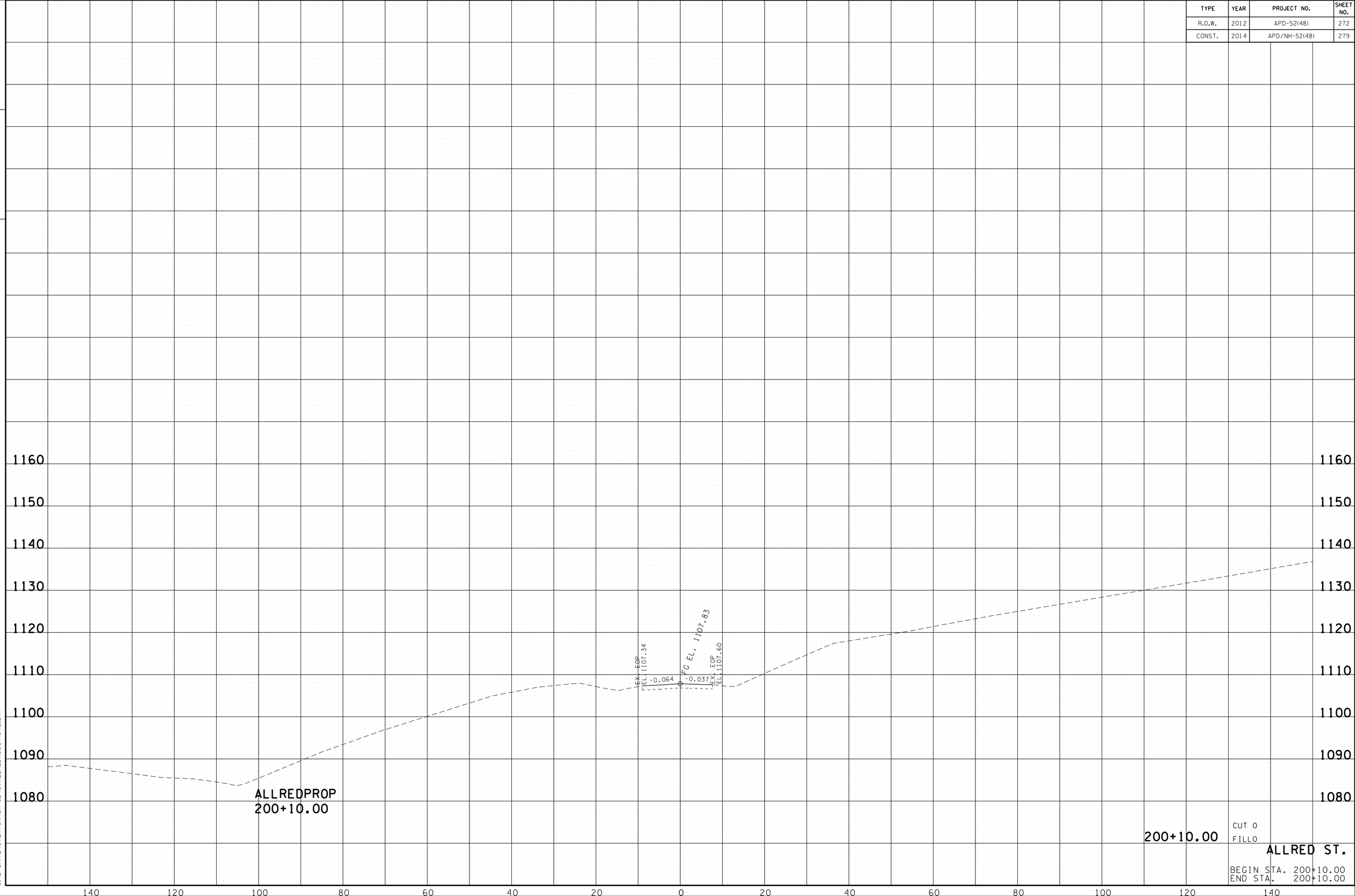


22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVALLREDXSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	272
CONST.	2014	APD/NH-52(48)	279



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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	273
CONST.	2014	APD/NH-52(48)	280

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

ALLRED ST.

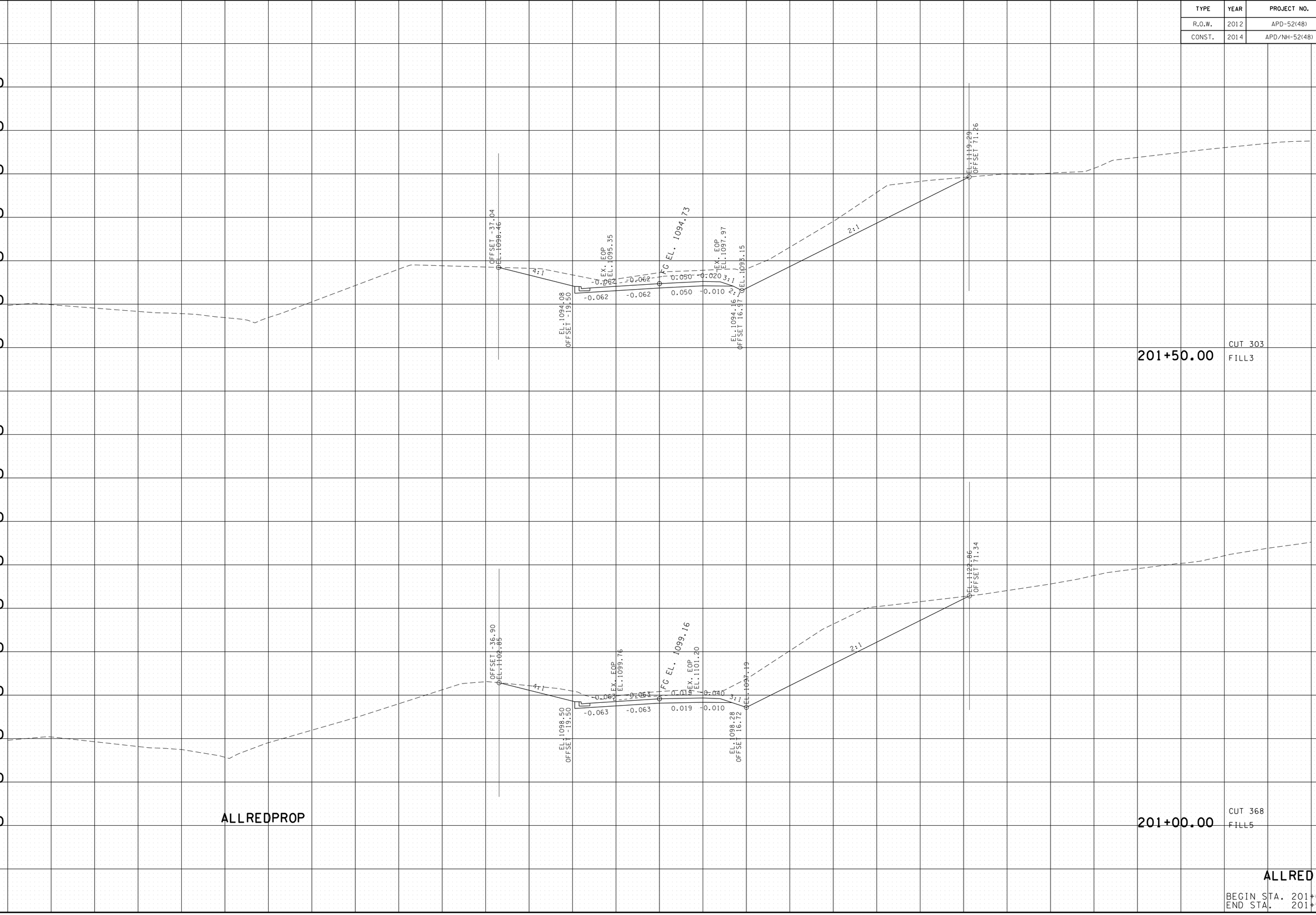
BEGIN STA. 200+50.00
END STA. 200+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVALLREDXSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	274
CONST.	2014	APD/NH-52(48)	281



ALLRED ST.

BEGIN STA. 201+00.00
END STA. 201+50.00

22-JAN-2015 07:54
C:\D DRIVE\OVERTON\SR-52\OVALLREDXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	275
CONST.	2014	APD/NH-52(48)	282

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

202+35.00

EX. EOP
EL.1089.49
-0.035
FG EL. 1092.53
0.035
EX. EOP
EL.1090.36

OFFSET -28.36
EL.1090.17
4:1
EX. EOP
EL.1091.38
-0.050 -0.050
-0.050
FG EL. 1092.66
0.050 -0.020
0.050 -0.010
EX. EOP
EL.1093.58
3:1
2:1
EL.1088.72
2:1
EL.1102.71
OFFSET 51.70
EL.1092.11
OFFSET -20.34
EL.1092.09
OFFSET 16.97

202+00.00
CUT 91
FILL15

EL.1117.28
OFFSET 70.49
OFFSET -22.16
EL.1094.18
4:1
EX. EOP
EL.1093.64
-0.040 -0.020
-0.040 -0.020
FG EL. 1093.60
-0.020 -0.040
-0.020 -0.020
EX. EOP
EL. 1096.45
3:1
2:1
EL.1093.51
OFFSET -19.50
EL.1092.22
OFFSET 16.94
EL.1091.38

201+69.95
CUT 235
FILL4

ALLRED ST.
BEGIN STA. 201+69.95
END STA. 202+35.00

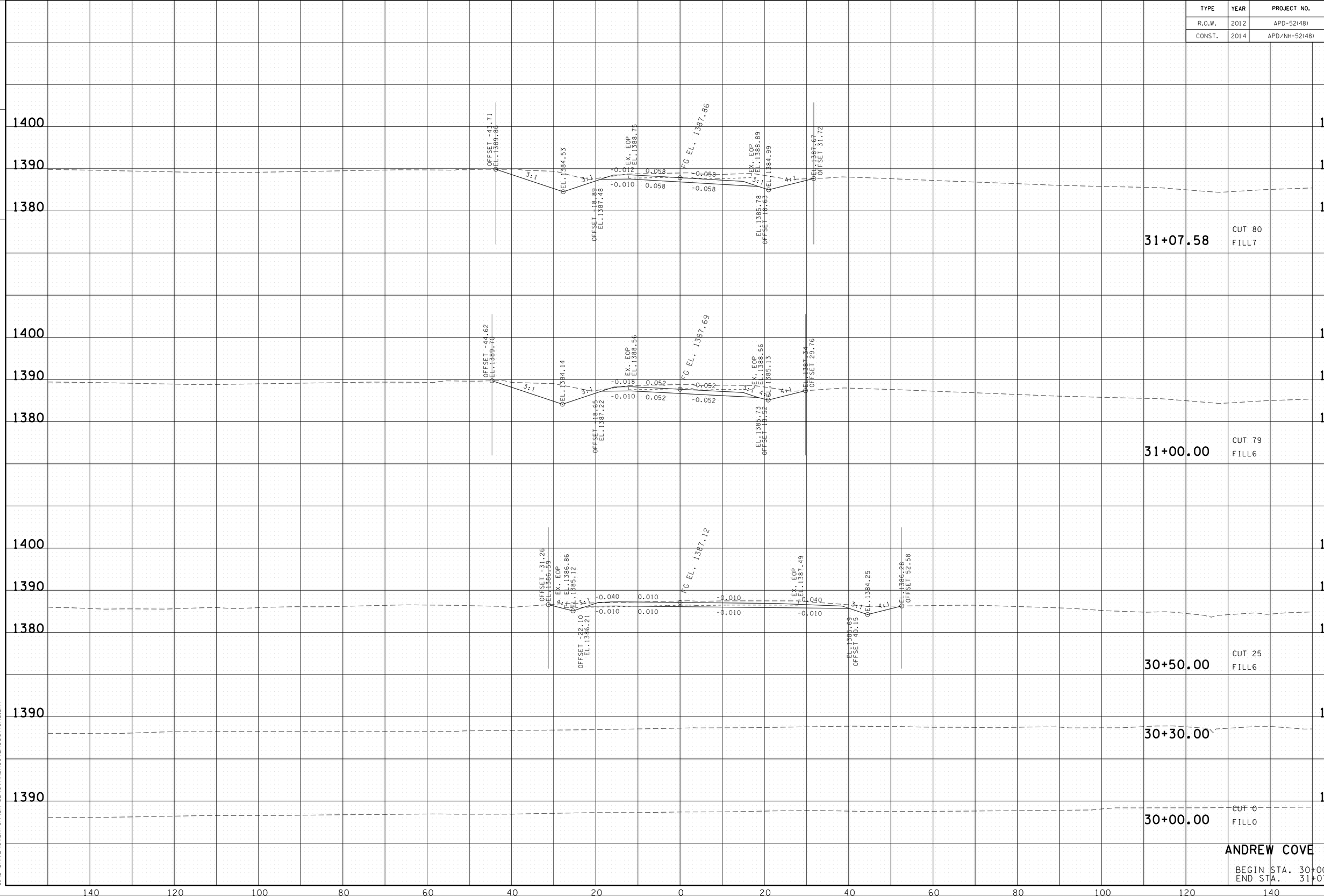
1110
1100
1090
1080
1130
1120

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVALLREDXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	276
CONST.	2014	APD/NH-52(48)	283

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



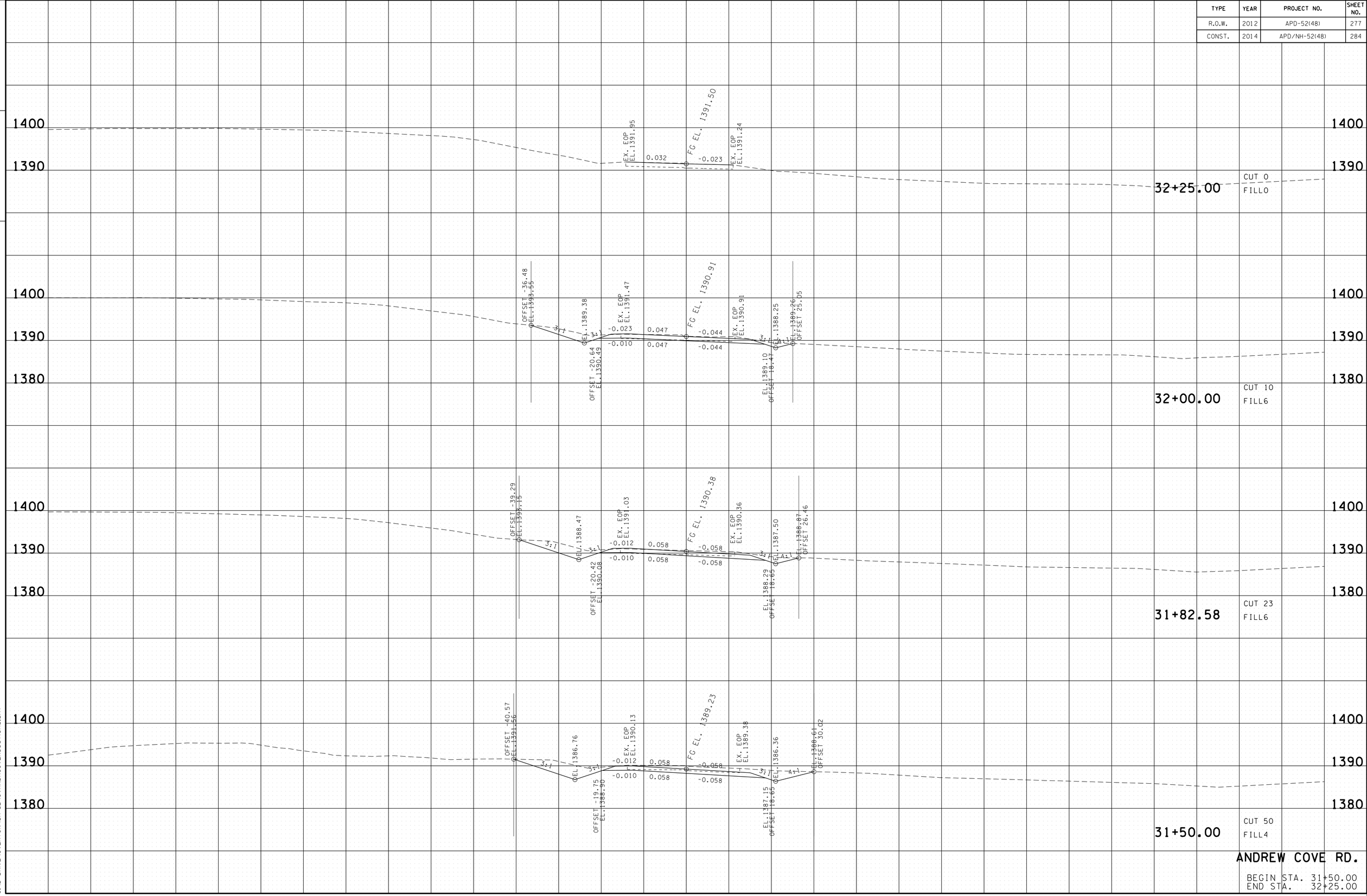
ANDREW COVE RD.

BEGIN STA. 30+00.00
END STA. 31+07.58

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVANDRCOVEXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	277
CONST.	2014	APD/NH-52(48)	284

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



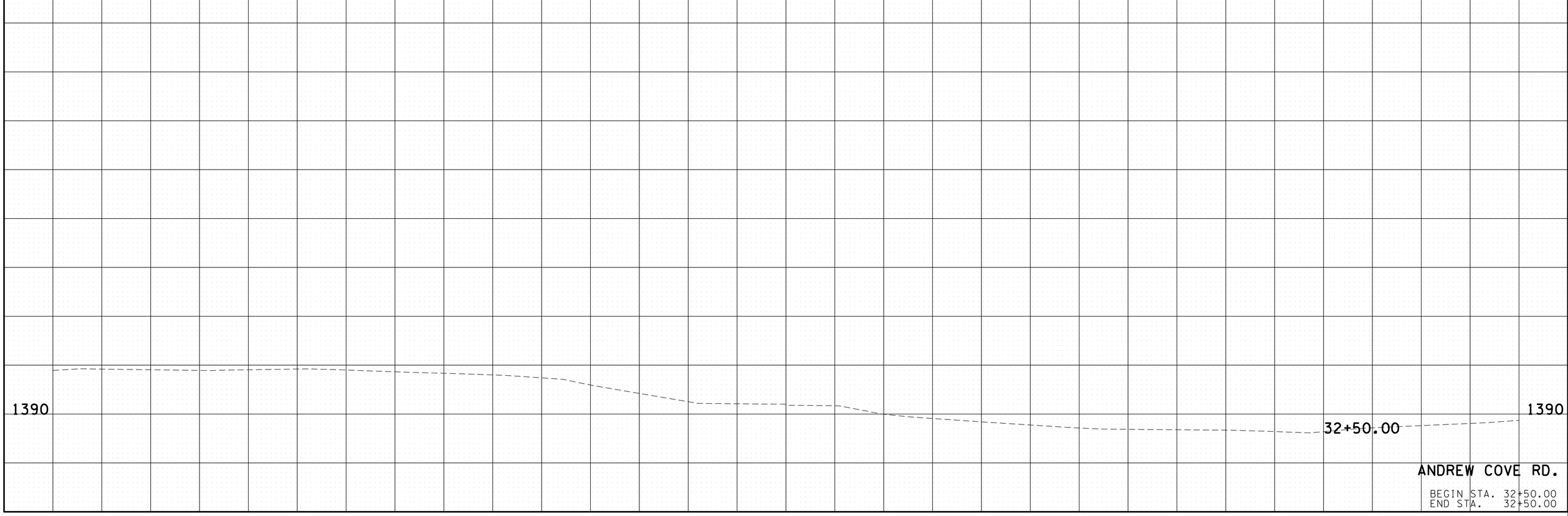
ANDREW COVE RD.

BEGIN STA. 31+50.00
END STA. 32+25.00

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVANDRCOVEXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	278
CONST.	2014	APD/NH-52(48)	285

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



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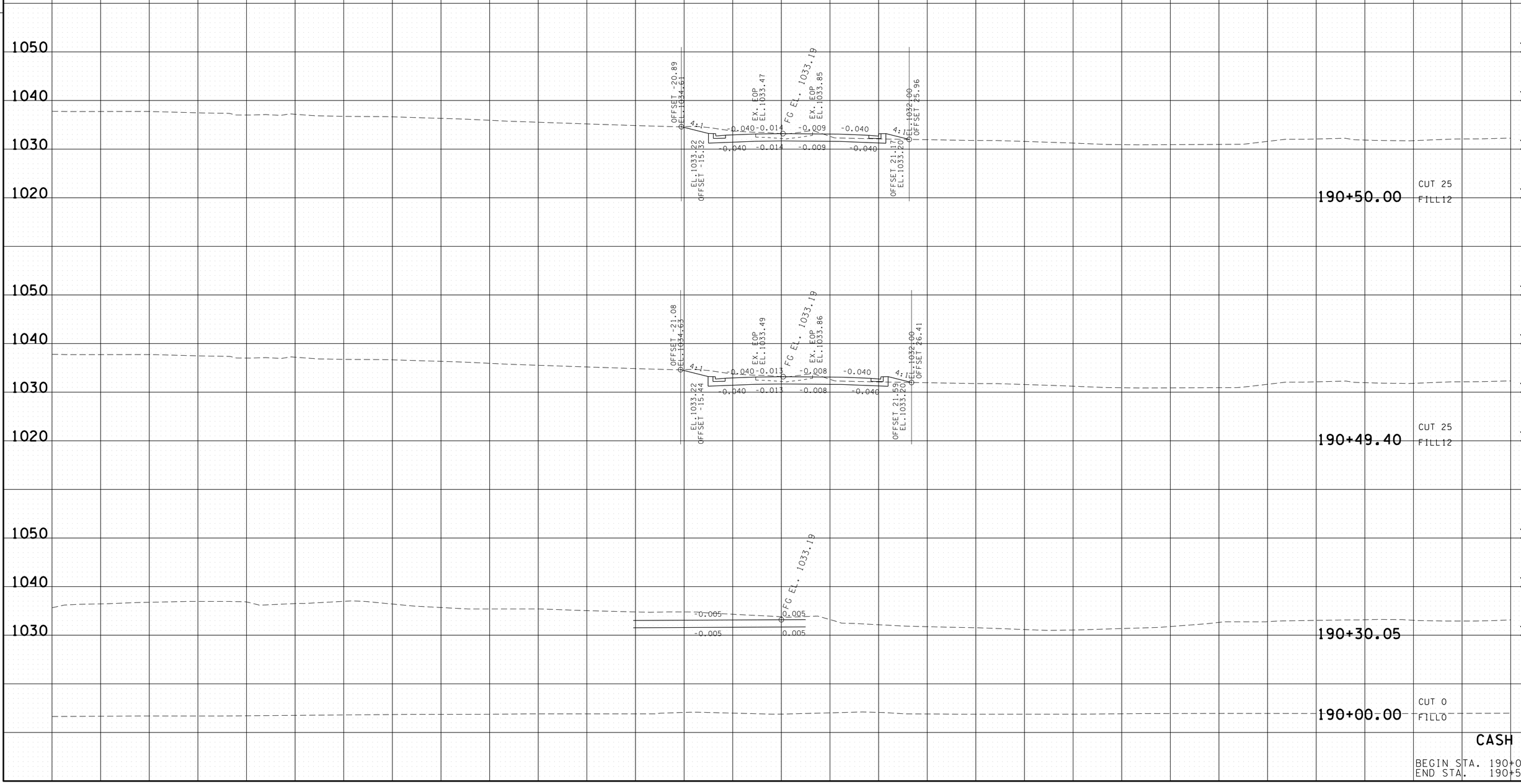
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	279
CONST.	2014	APD/NH-52(48)	286

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



CASH ST.

BEGIN STA. 190+00.00
END STA. 190+50.00

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVCASHXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	280
CONST.	2014	APD/NH-52(48)	287

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

1040
1030

EX. EOP EL.1029.76
EX. EOP EL.1029.51
192+23.87

1040
1030

EX. EOP EL.1029.76
0.086
FG EL. 1029.38
-0.003
EX. EOP EL.1029.35
192+00.00
CUT 0
FILL0

1040
1030

EX. EOP EL.1029.76
0.029
FG EL. 1030.06
0.020
EX. EOP EL.1030.04
191+50.00
CUT 0
FILL0

1040
1030

EX. EOP EL.1031.57
-0.020
FG EL. 1031.99
-0.020
EX. EOP EL.1031.22
191+00.00

1050
1040
1030
1020

OFFSET -19.17
EL.1034.44
4:1
EL.1033.22
OFFSET -14.29
EX. EOP EL.1032.99
-0.040
0.019
FG EL. 1033.19
-0.018
-0.040
EX. EOP EL.1033.44
0.040
-0.019
-0.018
-0.040
4:1
OFFSET 16.05
EL.1033.16
EL.1032.03
OFFSET 20.65
190+62.31
CUT 14
FILL11

CASH ST.

BEGIN STA. 190+62.31
END STA. 192+23.87

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVCASHXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	281
CONST.	2014	APD/NH-52(48)	288

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

1040
1030

194+50.00

194+00.00

193+50.00

193+00.00

EX. EOP EL.1030.60

EX. EOP EL.1031.09

192+80.65

EX. EOP EL.1030.20

EX. EOP EL.1030.73

192+50.00

EX. EOP EL.1029.87

EX. EOP EL.1029.92

CASH ST.

BEGIN STA. 192+50.00
END STA. 194+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:55
C:\D_DRIVE\OVERTON\SR-52\OVCASHXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	282
CONST.	2014	APD/NH-52(48)	289

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

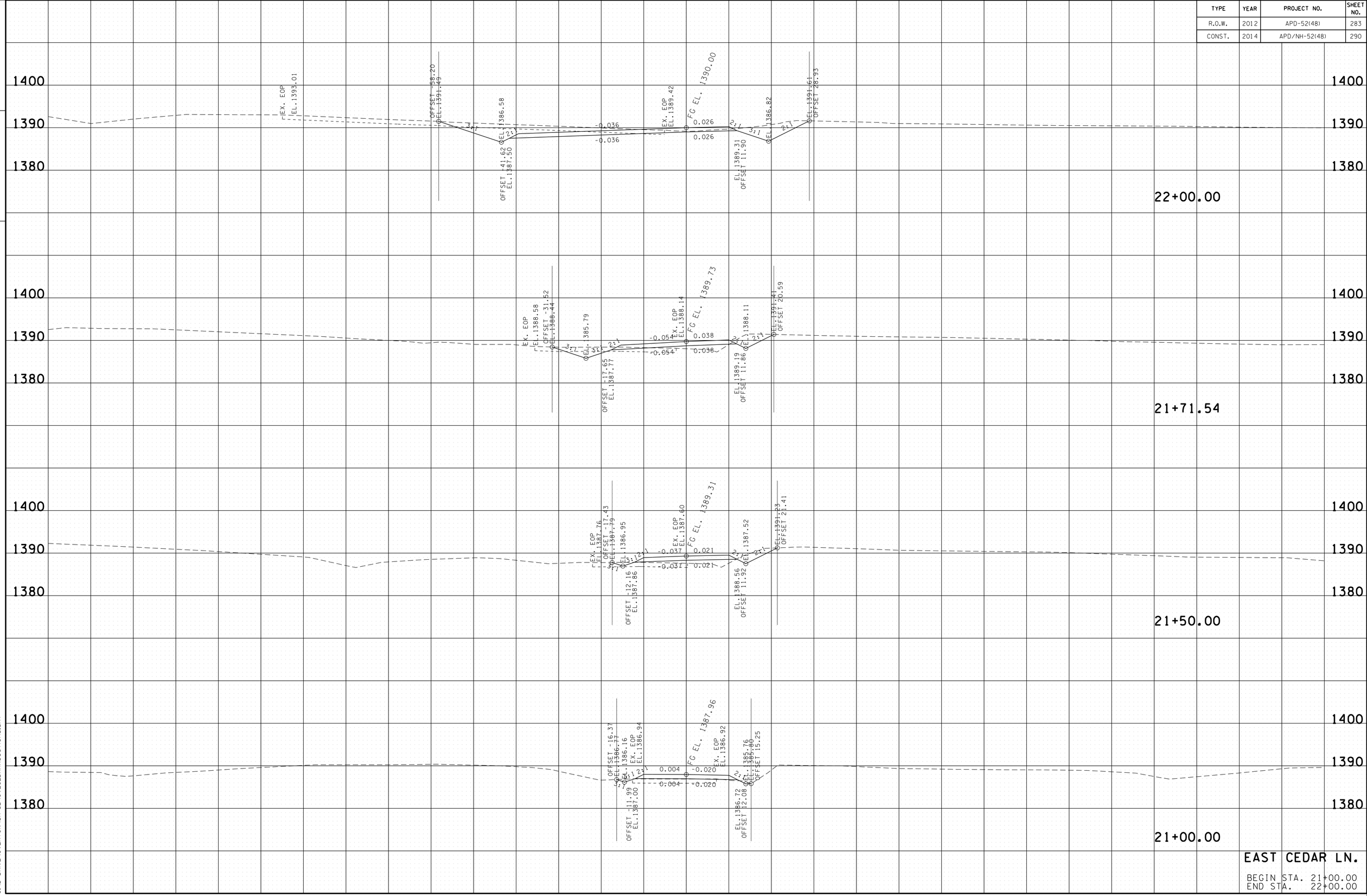
EAST CEDAR LN.

BEGIN STA. 20+00.00
END STA. 20+73.40

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVECEDARXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	283
CONST.	2014	APD/NH-52(48)	290

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



EAST CEDAR LN.

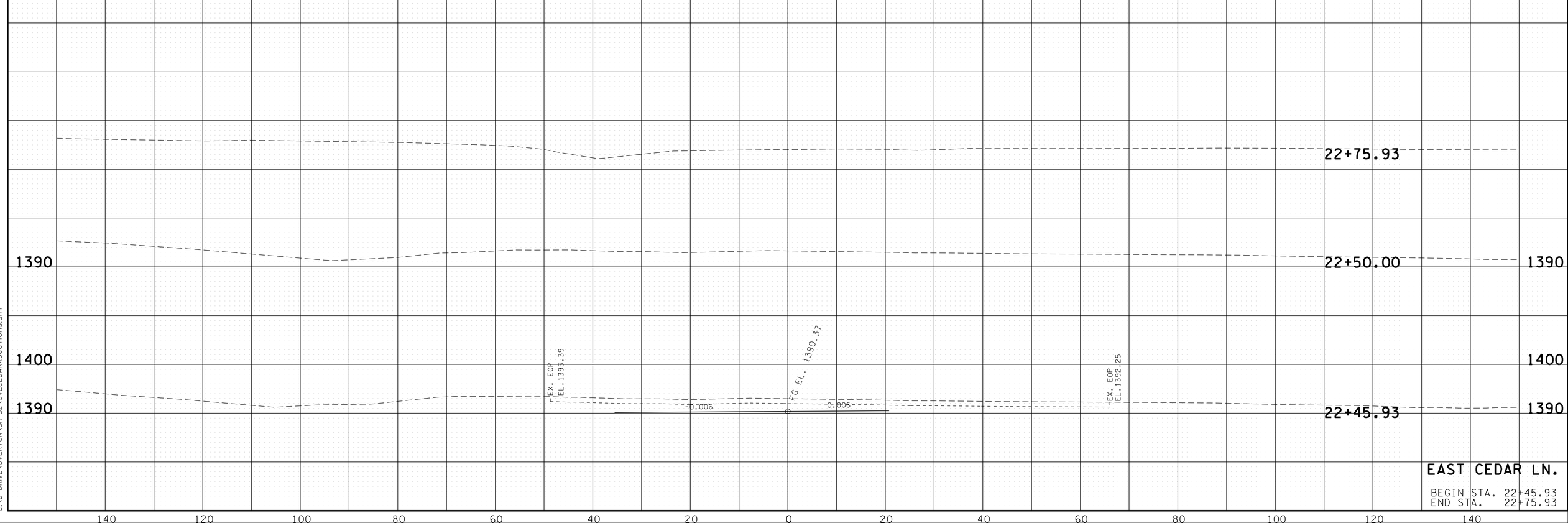
BEGIN STA. 21+00.00
END STA. 22+00.00

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVECEDARXSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	284
CONST.	2014	APD/NH-52(48)	291



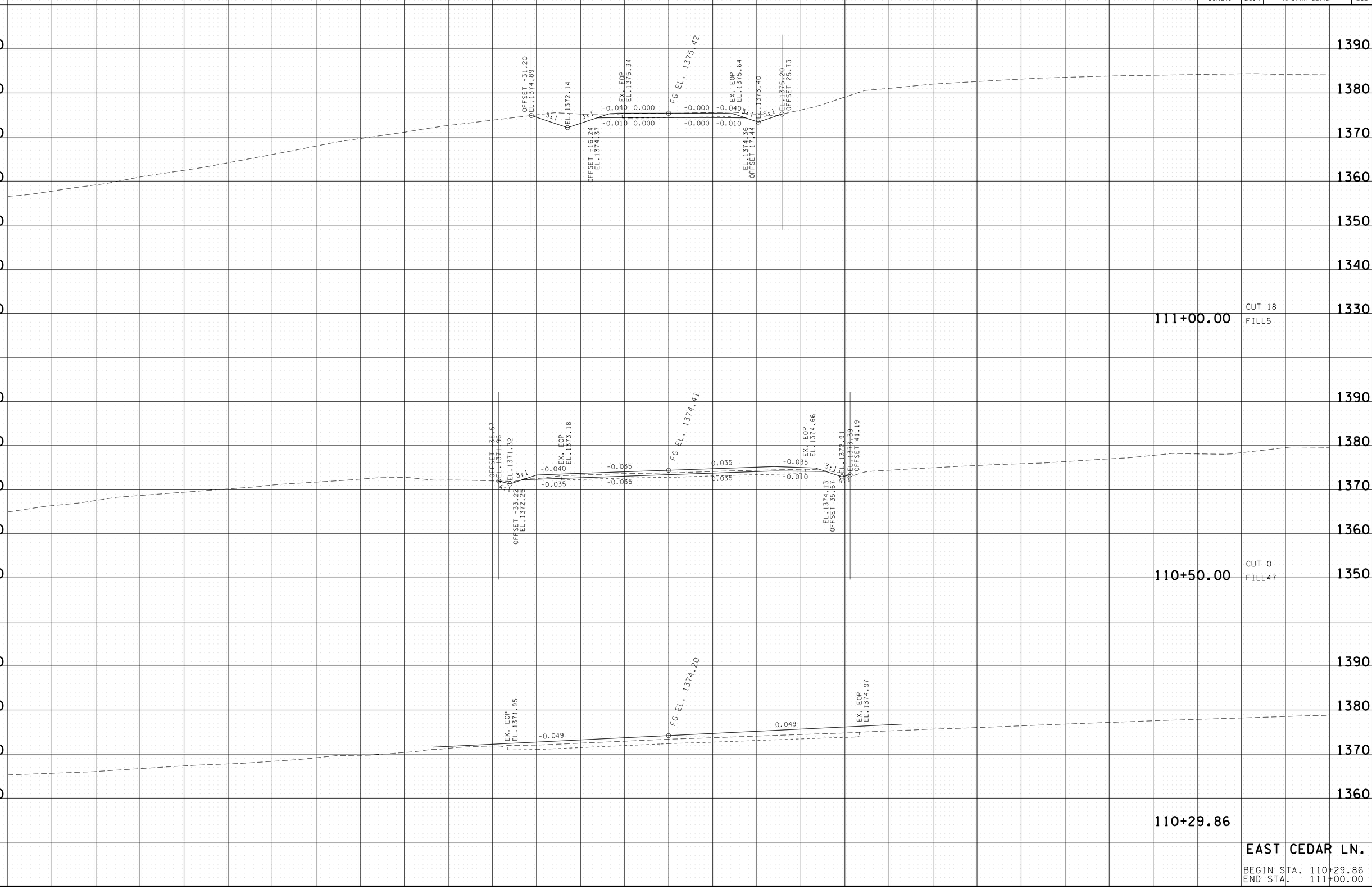
EAST CEDAR LN.

BEGIN STA. 22+45.93
END STA. 22+75.93

22-JAN-2015 07:55
C:\D_DRIVE\OVERTON\SR-52\OVECEDARXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	285
CONST.	2014	APD/NH-52(48)	292

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



EAST CEDAR LN.

BEGIN STA. 110+29.86
END STA. 111+00.00

22-JAN-2015 07:55
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	286
CONST.	2014	APD/NH-52(48)	293

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

1380
1370
1360
1390
1380
1370
1360
1390
1380
1370
1360
1350
1340
1330

EX. EOP
EL.1376.93
0.016
0.012
FG EL. 1376.77
EX. EOP
EL.1376.91

112+00.00

111+50.00
CUT 0
FILLO

OFFSET -20.04
EL.1375.97
OFFSET -13.96
EL.1373.31
EL.1374.63
-0.040
0.018
-0.010
0.018
EX. EOP
EL.1376.34
FG EL. 1376.19
-0.018
-0.040
-0.018
-0.018
EX. EOP
EL.1376.23
EL.1374.89
OFFSET 16.62
EL.1374.50
EL.1381.02
OFFSET 37.37

111+26.00
CUT 11
FILL4

EAST CEDAR LN.

BEGIN STA. 111+26.00
END STA. 112+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:55
C:\D_DRIVE\OVERTON\SR-52\OVELMERLANXSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	287
CONST.	2014	APD/NH-52(48)	294

REV. 07-15-13

1320
1310
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210
1200
1190

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

142+00.00

CUT 0
ROCK 0
FILL 0

FAIRVIEW LN.

BEGIN STA. 142+00.00
END STA. 142+00.00

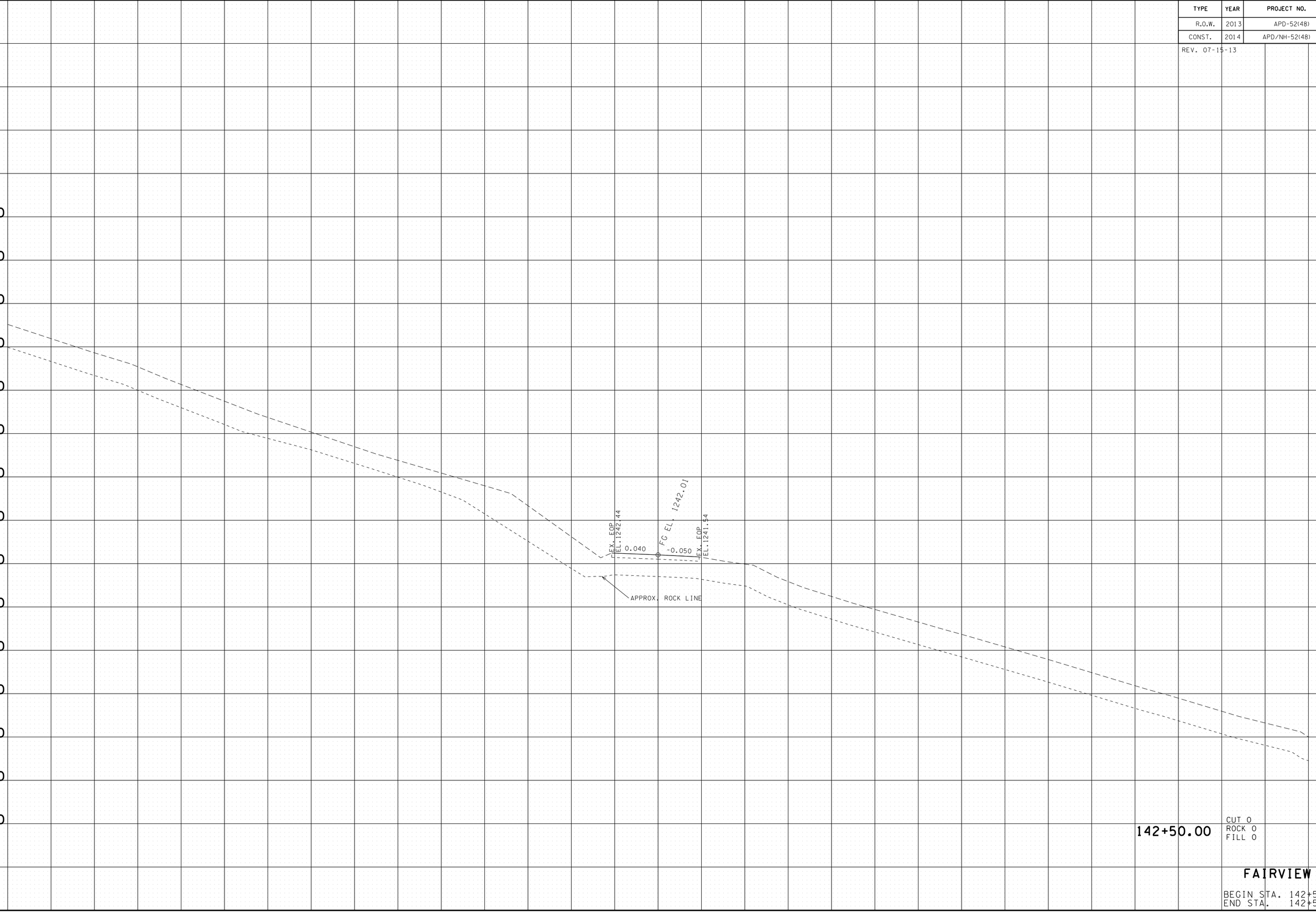
22-JAN-2015 07:55
C:\D_DRIVE_OVERTON\SR-52\OVFAIRVIEWXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	288
CONST.	2014	APD/NH-52(48)	295

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



142+50.00

CUT 0
ROCK 0
FILL 0

FAIRVIEW LN.

BEGIN STA. 142+50.00
END STA. 142+50.00

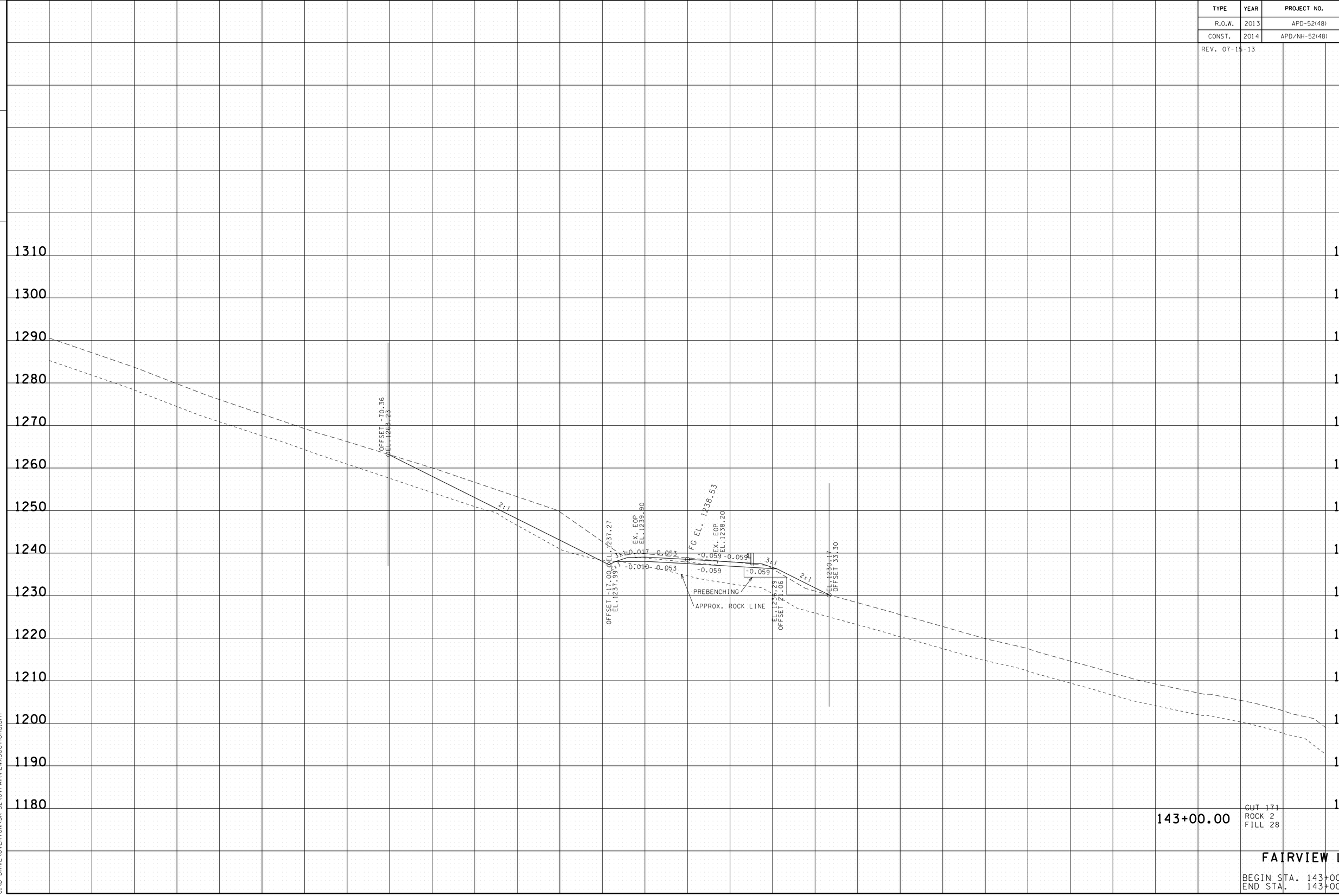
22-JAN-2015 07:55
C:\D_DRIVE\OVERTON\SR-52\OVFAIRVIEW\Sections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	289
CONST.	2014	APD/NH-52(48)	296

REV. 07-15-13



143+00.00

CUT 171
ROCK 2
FILL 28

FAIRVIEW LN.

BEGIN STA. 143+00.00
END STA. 143+00.00

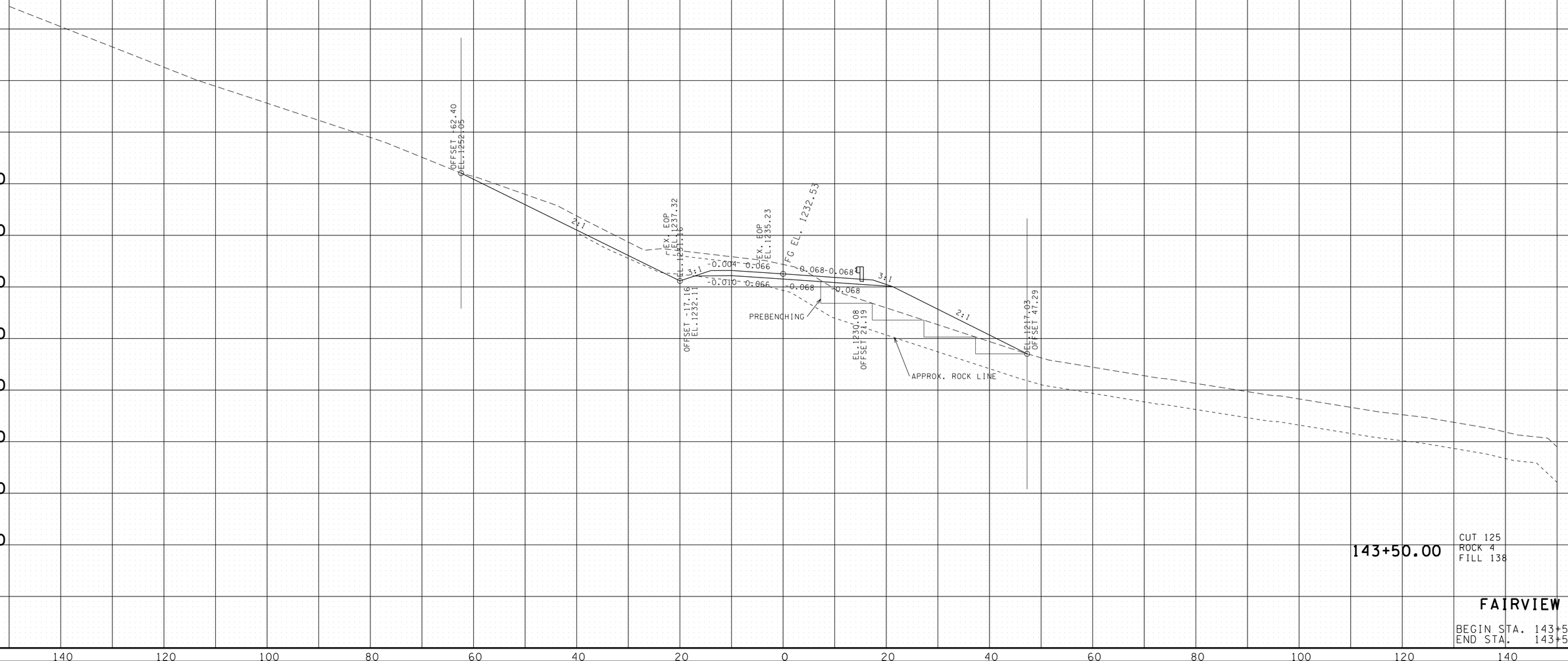
22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVFAIRVIEW\Sections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	290
CONST.	2014	APD/NH-52(48)	297

REV. 07-15-13



143+50.00

CUT 125
ROCK 4
FILL 138

FAIRVIEW LN.

BEGIN STA. 143+50.00
END STA. 143+50.00

22-JAN-2015 07:55
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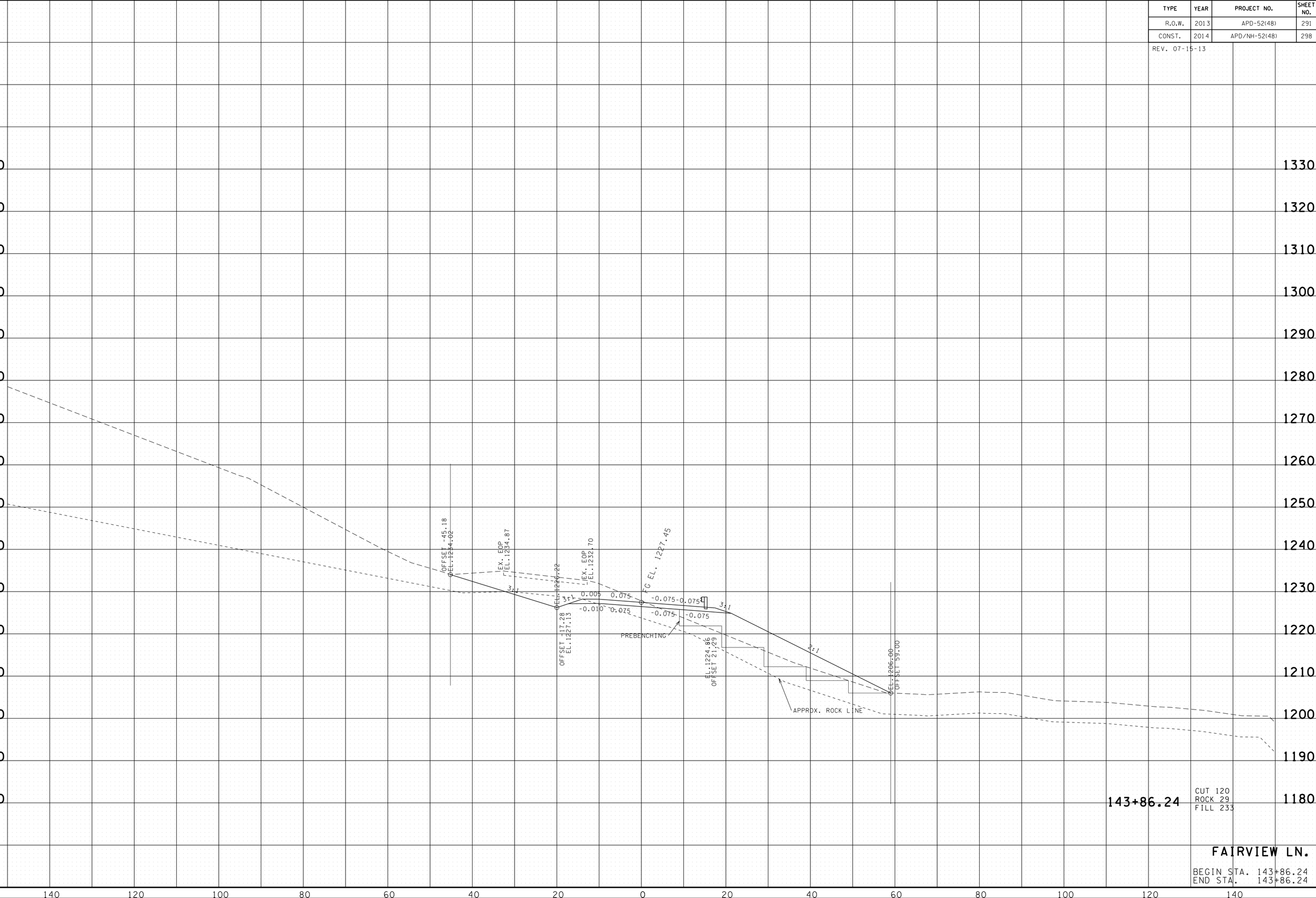
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	291
CONST.	2014	APD/NH-52(48)	298

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



143+86.24

CUT 120
ROCK 29
FILL 233

FAIRVIEW LN.

BEGIN STA. 143+86.24
END STA. 143+86.24

22-JAN-2015 07:55
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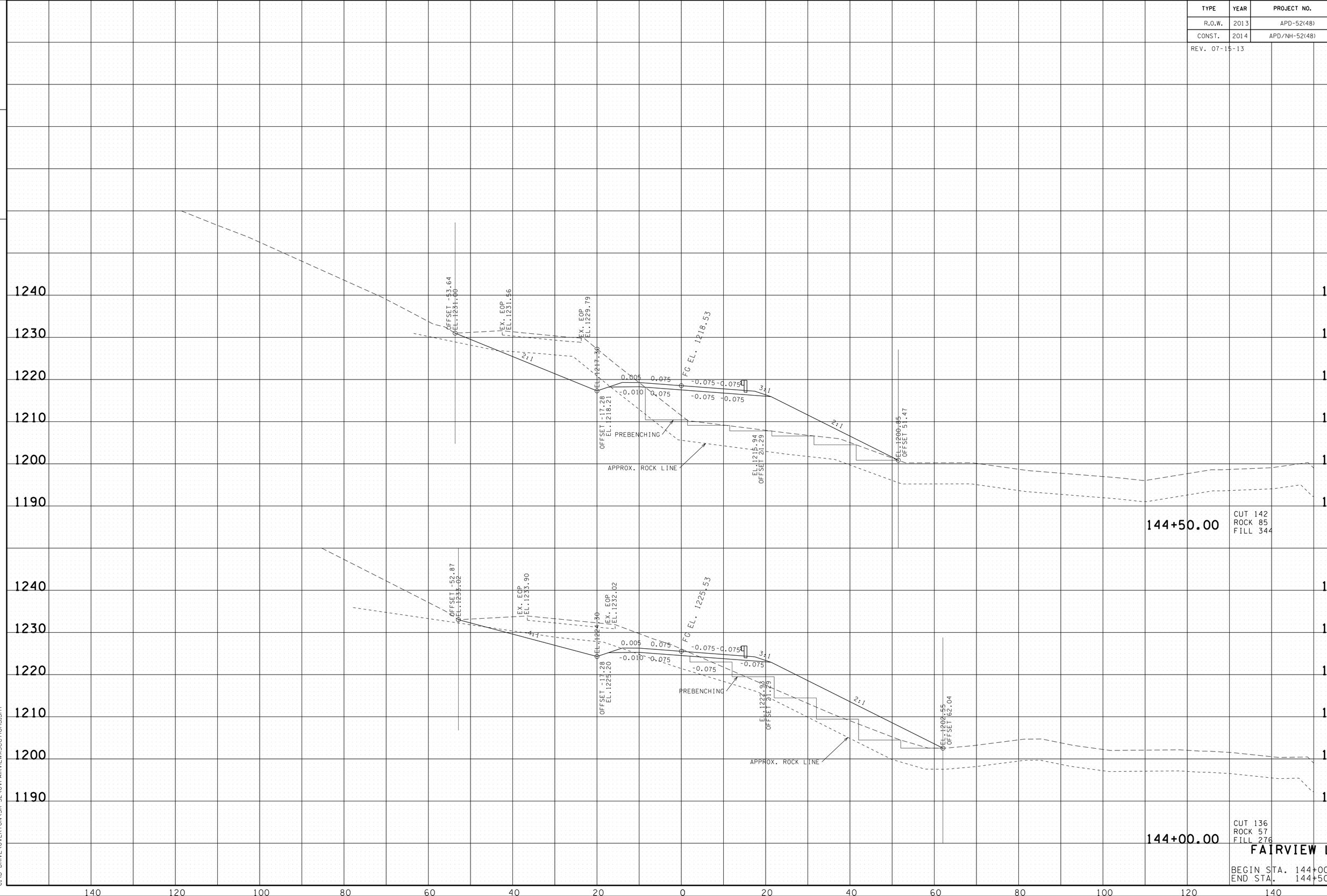
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	292
CONST.	2014	APD/NH-52(48)	299

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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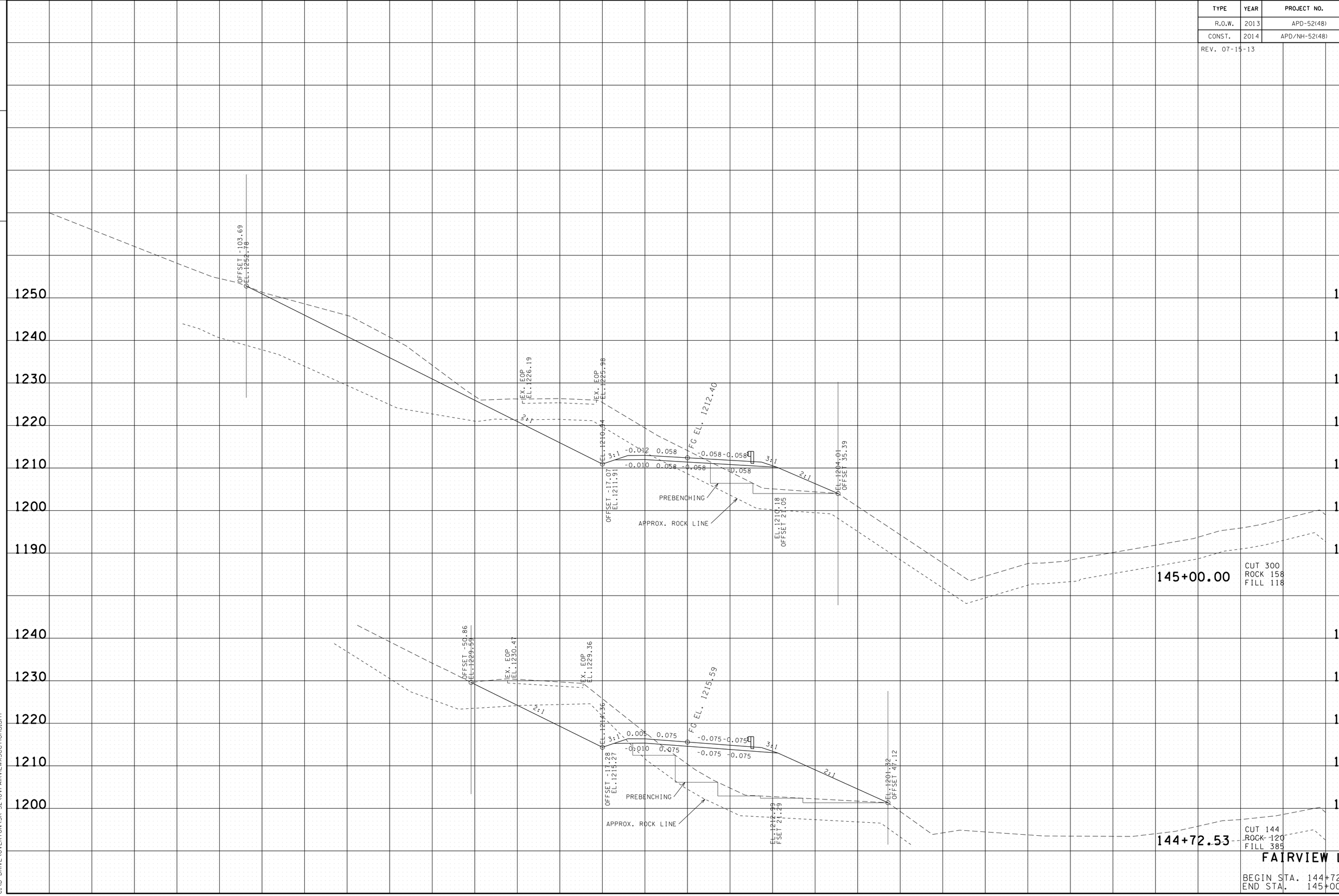
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	293
CONST.	2014	APD/NH-52(48)	300

REV. 07-15-13



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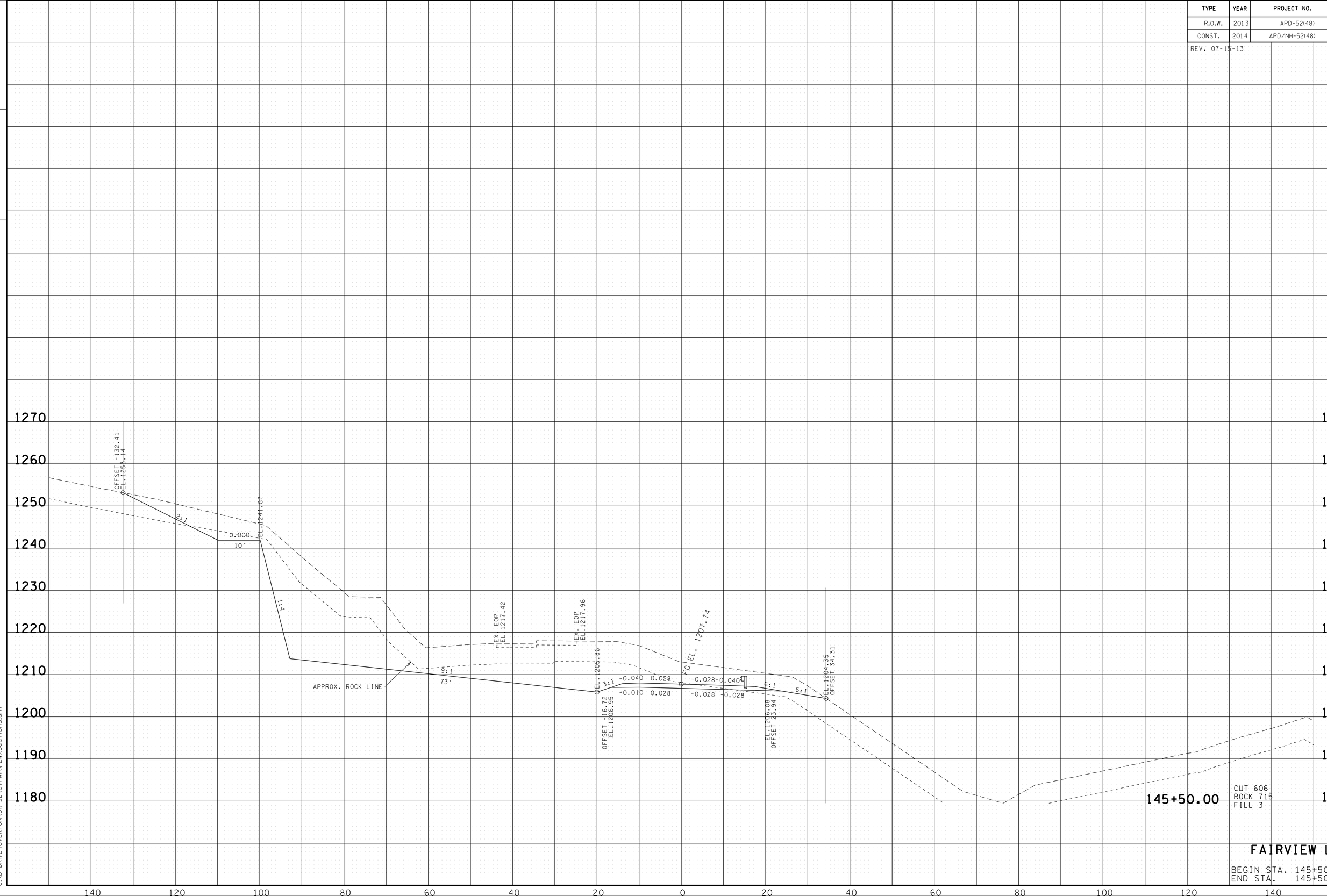
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	294
CONST.	2014	APD/NH-52(48)	301

REV. 07-15-13



145+50.00

CUT 606
ROCK 715
FILL 3

FAIRVIEW LN.

BEGIN STA. 145+50.00
END STA. 145+50.00

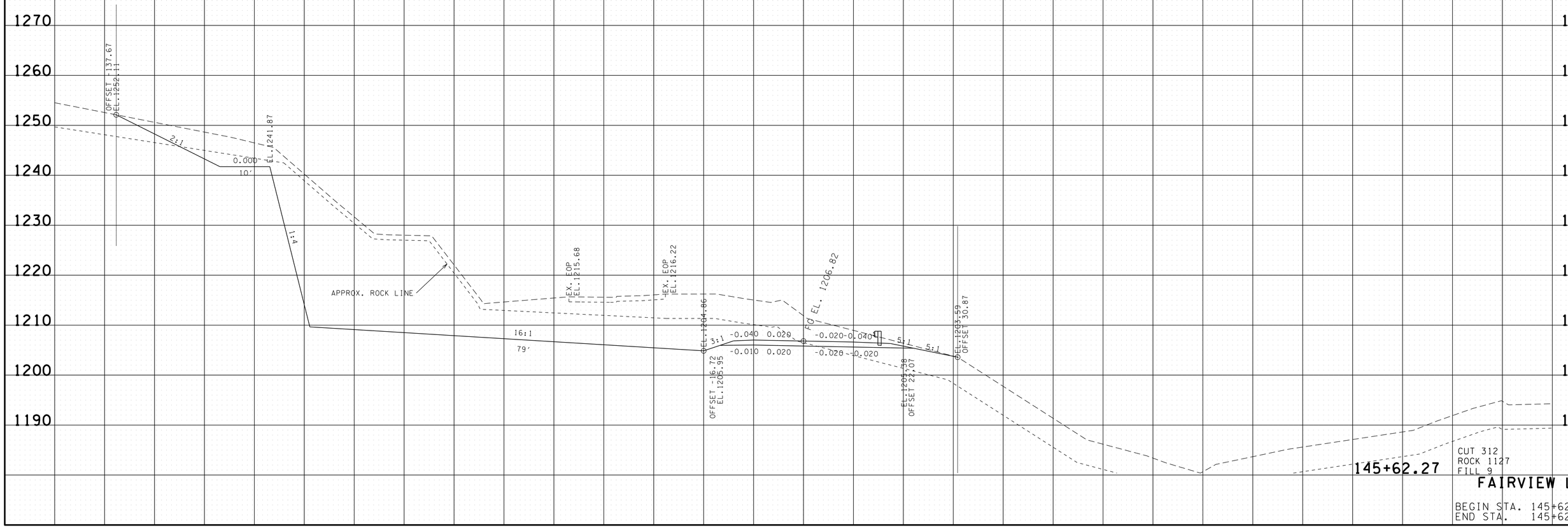
22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVFAIRVIEWXSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	295
CONST.	2014	APD/NH-52(48)	302

REV. 07-15-13



145+62.27

CUT 312
ROCK 1127
FILL 9

FAIRVIEW LN.

BEGIN STA. 145+62.27
END STA. 145+62.27

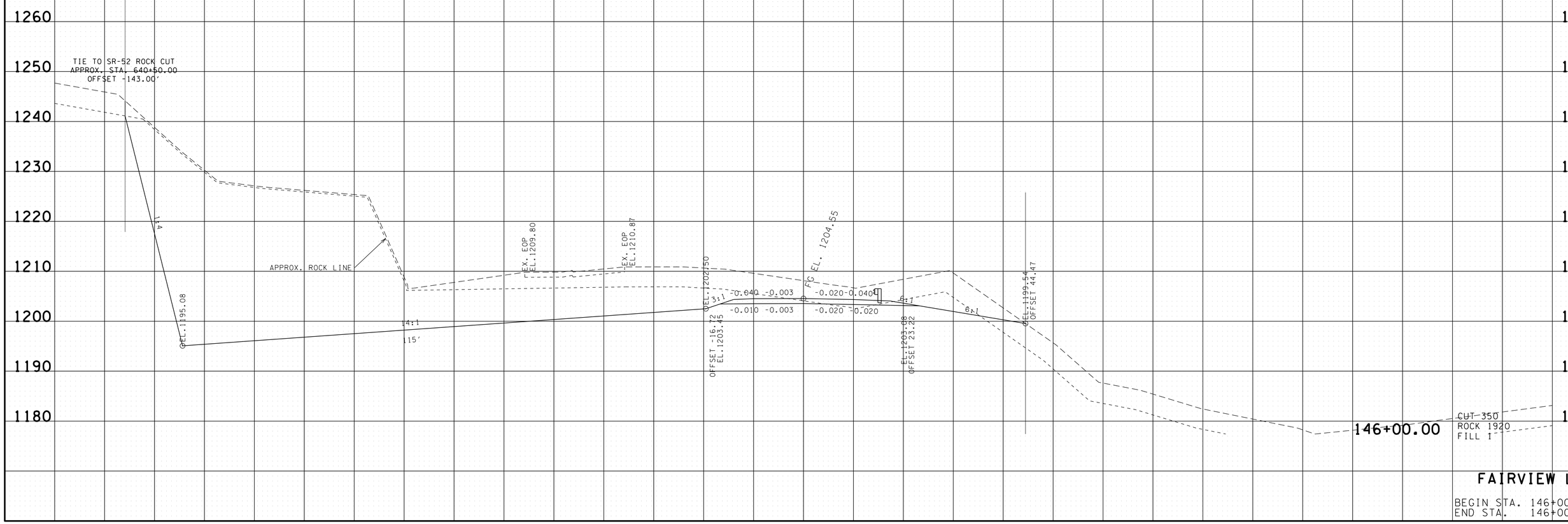
22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVFAIRVIEWXSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	296
CONST.	2014	APD/NH-52(48)	303

REV. 07-15-13



FAIRVIEW LN.

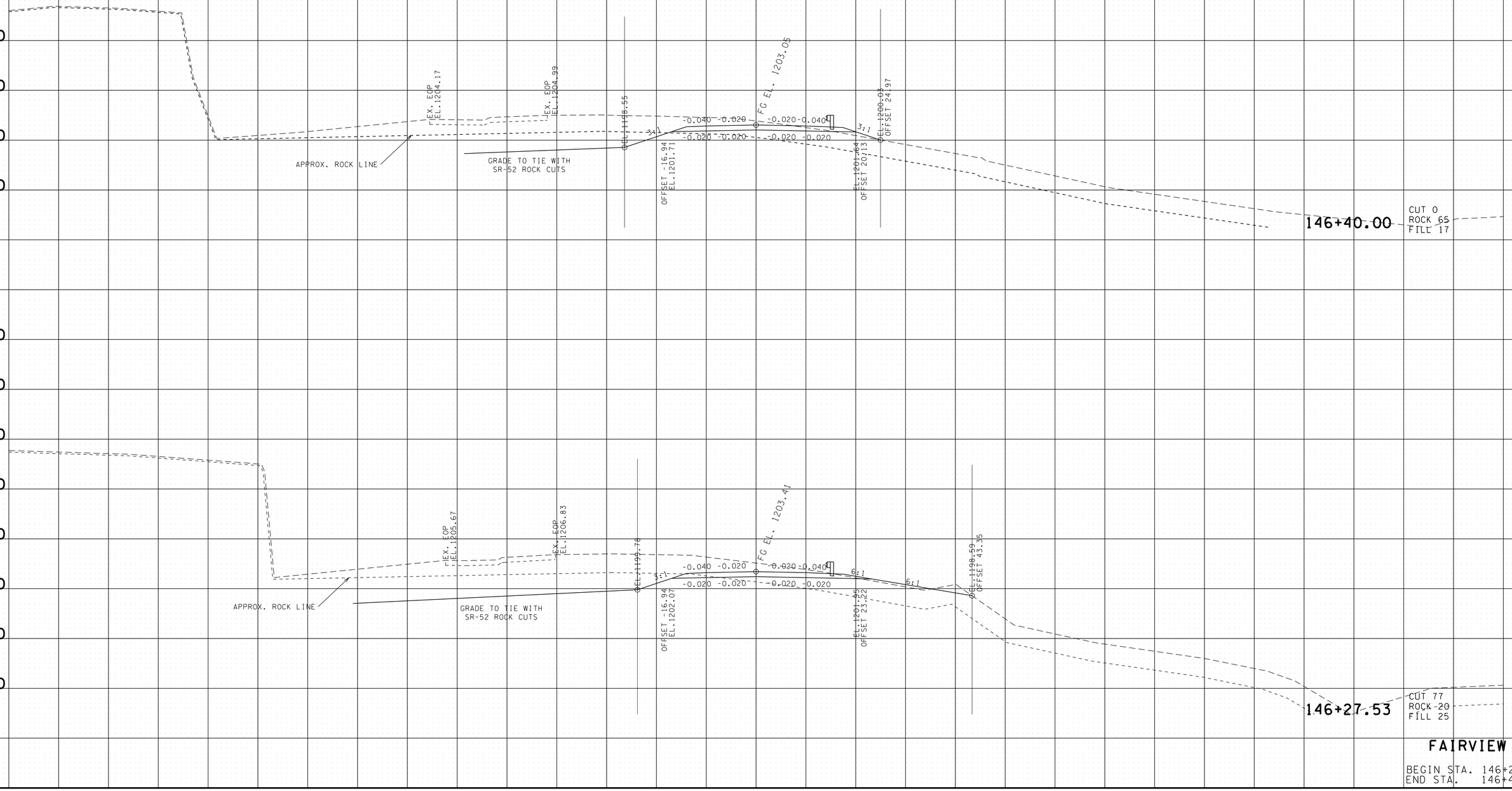
BEGIN STA. 146+00.00
END STA. 146+00.00

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVFAIRVIEWXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	297
CONST.	2014	APD/NH-52(48)	304

REV. 07-15-13

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



FAIRVIEW LN.

BEGIN STA. 146+27.53
END STA. 146+40.00

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVFAIRVIEWXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	APD-52(48)	298
CONST.	2014	APD/NH-52(48)	305

REV. 07-15-13

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1200
1220
1210
1200

147+01.84

EX. EOP
EL.1199.04
-0.022
-0.022
FG EL. 1202.30
0.021
0.021
EX. EOP
EL.1205.18

147+00.00

1220
1210
1200

EX. EOP
EL.1200.23
EX. EOP
EL.1201.50
-0.020
-0.020
FG EL. 1202.38
0.014
0.014

146+90.00

1250
1240
1230
1220
1210
1200
1190

EX. EOP
EL.1202.96
EX. EOP
EL.1205.72
EL.1197.56
3:1
-0.040 -0.020
-0.020 -0.020
FG EL. 1202.82
-0.013-0.040
-0.013 -0.013
3:1
EL.1199.26
OFFSET 29.82
APPROX. ROCK LINE
GRADE TO TIE WITH
SR-52 ROCK CUTS
OFFSET -16.94
EL.1201.48
EL.1201.56
OFFSET 19.93

146+50.00

CUT 0
ROCK 36
FILL 43

FAIRVIEW LN.

BEGIN STA. 146+50.00
END STA. 147+01.84

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:55
C:\D_DRIVE\OVERTON\SR-52\OVFAIRVIEW\XSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	299
CONST.	2014	APD/NH-52(48)	306

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

1410
1420
1410

91+50.00

-0.025
EX. EOP EL.1411.11
FG EL. 1412.05
EX. EOP EL.1411.94
0.025

91+42.81

1420
1410

OFFSET -37.21 EL.1410.31
3:1
EL.1407.29
3:1
OFFSET -17.44 EL.1410.85
-0.040 0.001
-0.010 0.001
EX. EOP EL.1411.46
FG EL. 1411.92
0.028 0.028
EX. EOP EL.1412.06
-0.040 0.010
EL.1411.13 OFFSET 17.54
3:1
EL.1408.94
3:1
EL.1412.21 OFFSET 33.91

1420
1410

1400

91+00.00

CUT 40
FILL14

1420
1410

EX. EOP EL.1409.54
0.031
FG EL. 1409.37
0.031
EX. EOP EL.1409.62

90+50.00

CUT 0
FILL0

1410

90+00.00

1410

FISK RD.

BEGIN STA. 90+00.00
END STA. 91+50.00

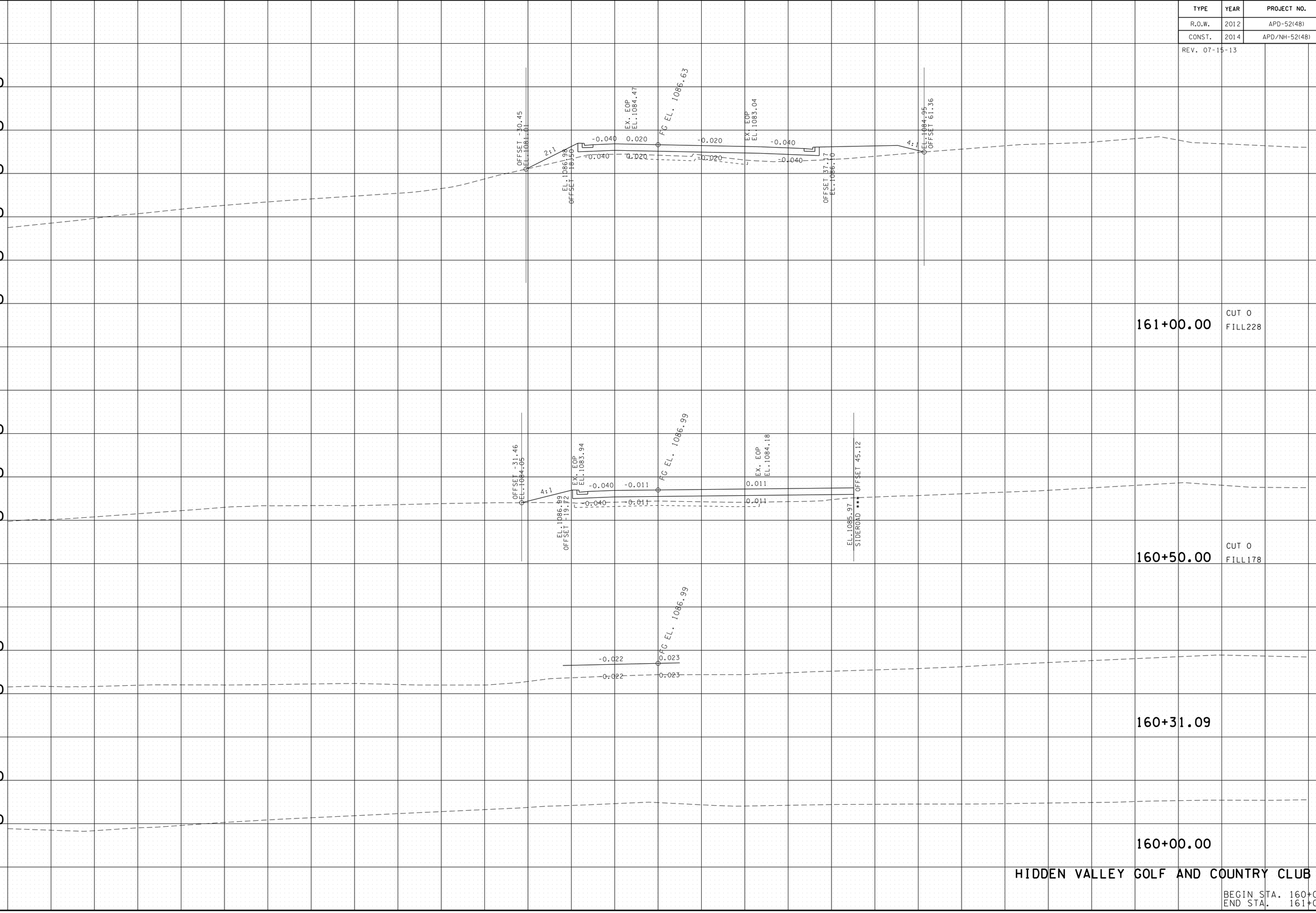
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVFISKXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	300
CONST.	2014	APD/NH-52(48)	307

REV. 07-15-13

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



HIDDEN VALLEY GOLF AND COUNTRY CLUB LN.

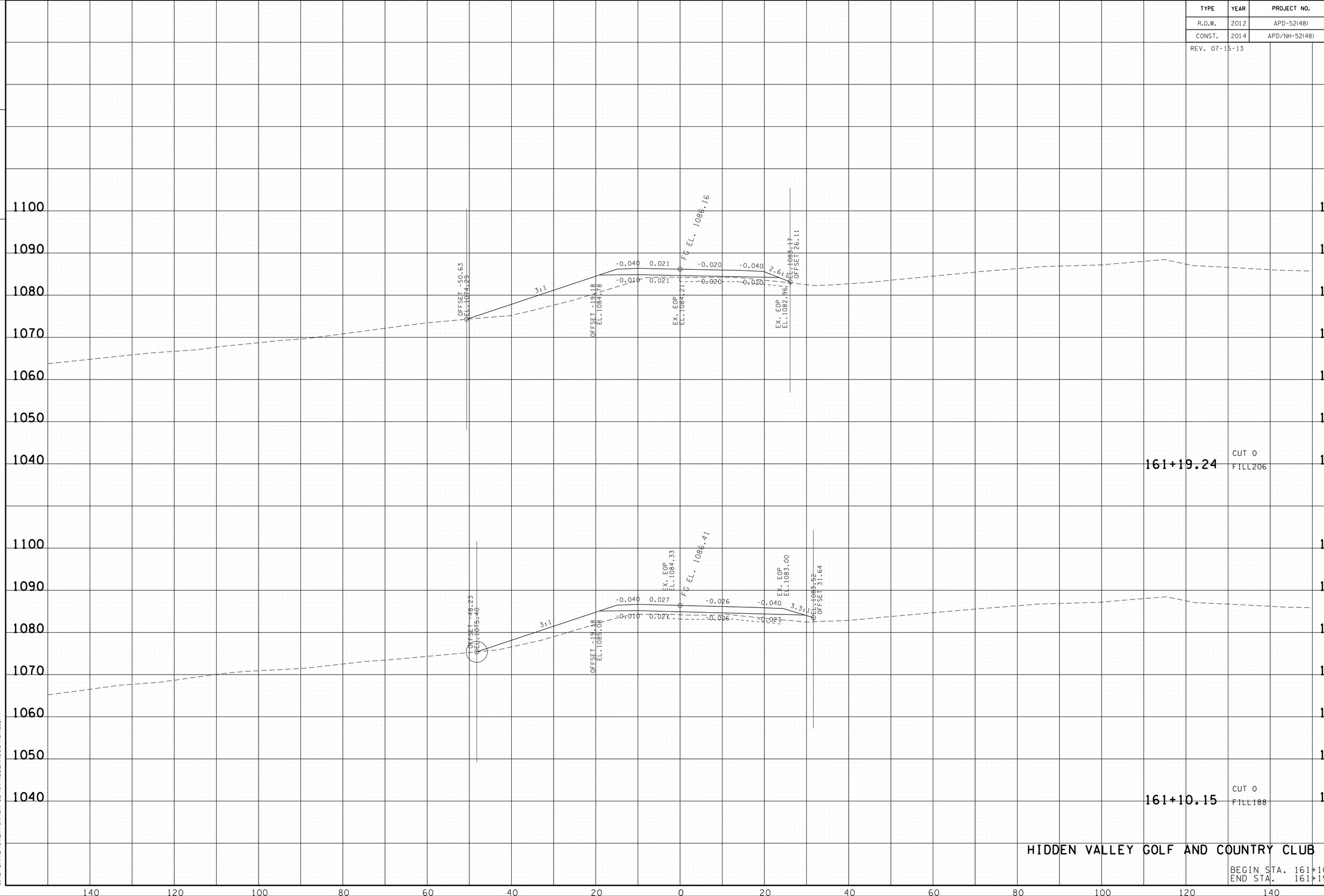
BEGIN STA. 160+00.00
END STA. 161+00.00

22-JAN-2015 07:55
C:\D_DRIVE_OVERTON\SR-52\OVHIDDENXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	301
CONST.	2014	APD/NH-52(48)	308

REV. 07-15-13

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



161+19.24 CUT 0 FILL206

161+10.15 CUT 0 FILL188

HIDDEN VALLEY GOLF AND COUNTRY CLUB LN.

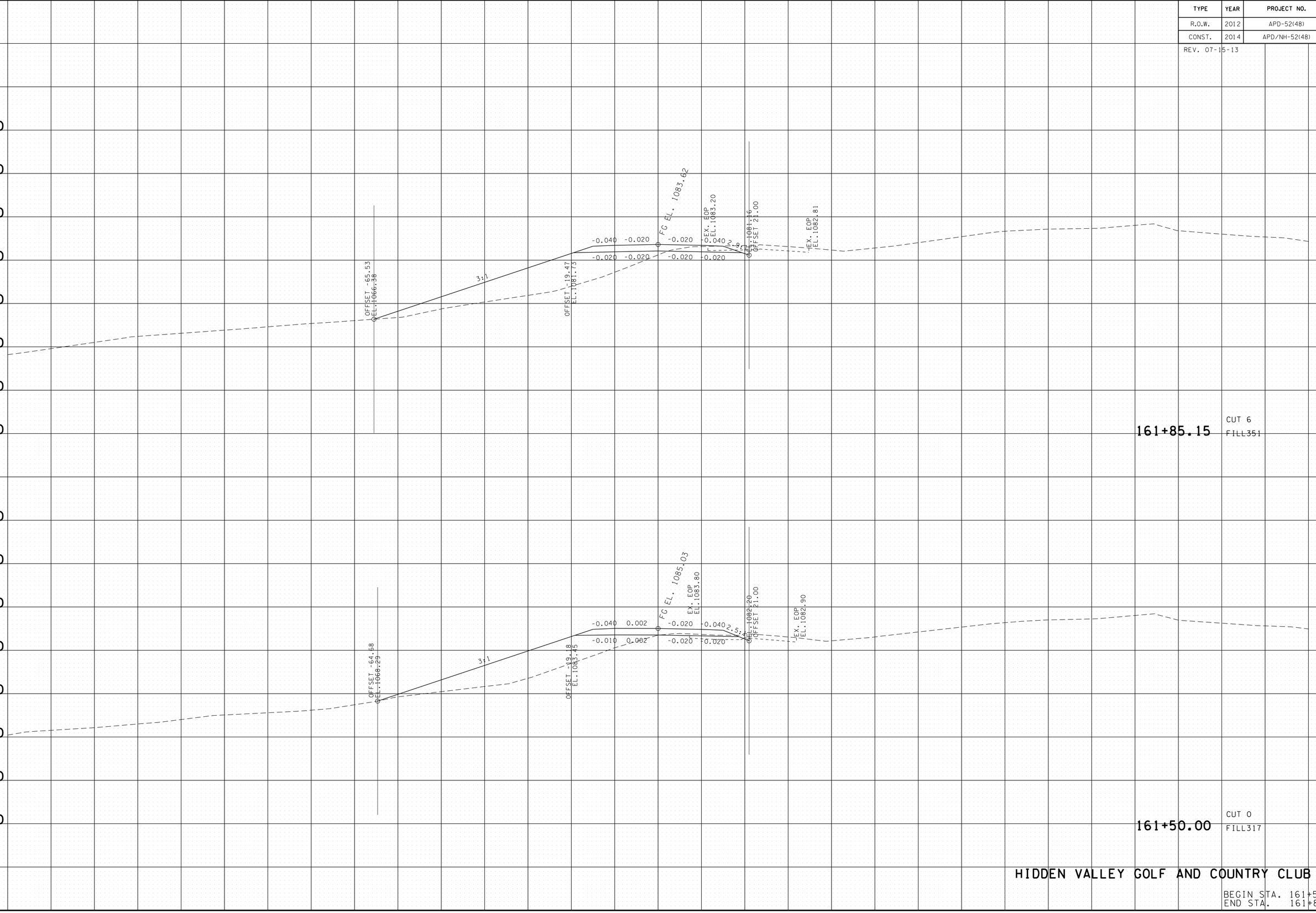
BEGIN STA. 161+10.15
END STA. 161+19.24

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVHIDDENXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	302
CONST.	2014	APD/NH-52(48)	309

REV. 07-15-13

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



HIDDEN VALLEY GOLF AND COUNTRY CLUB LN.

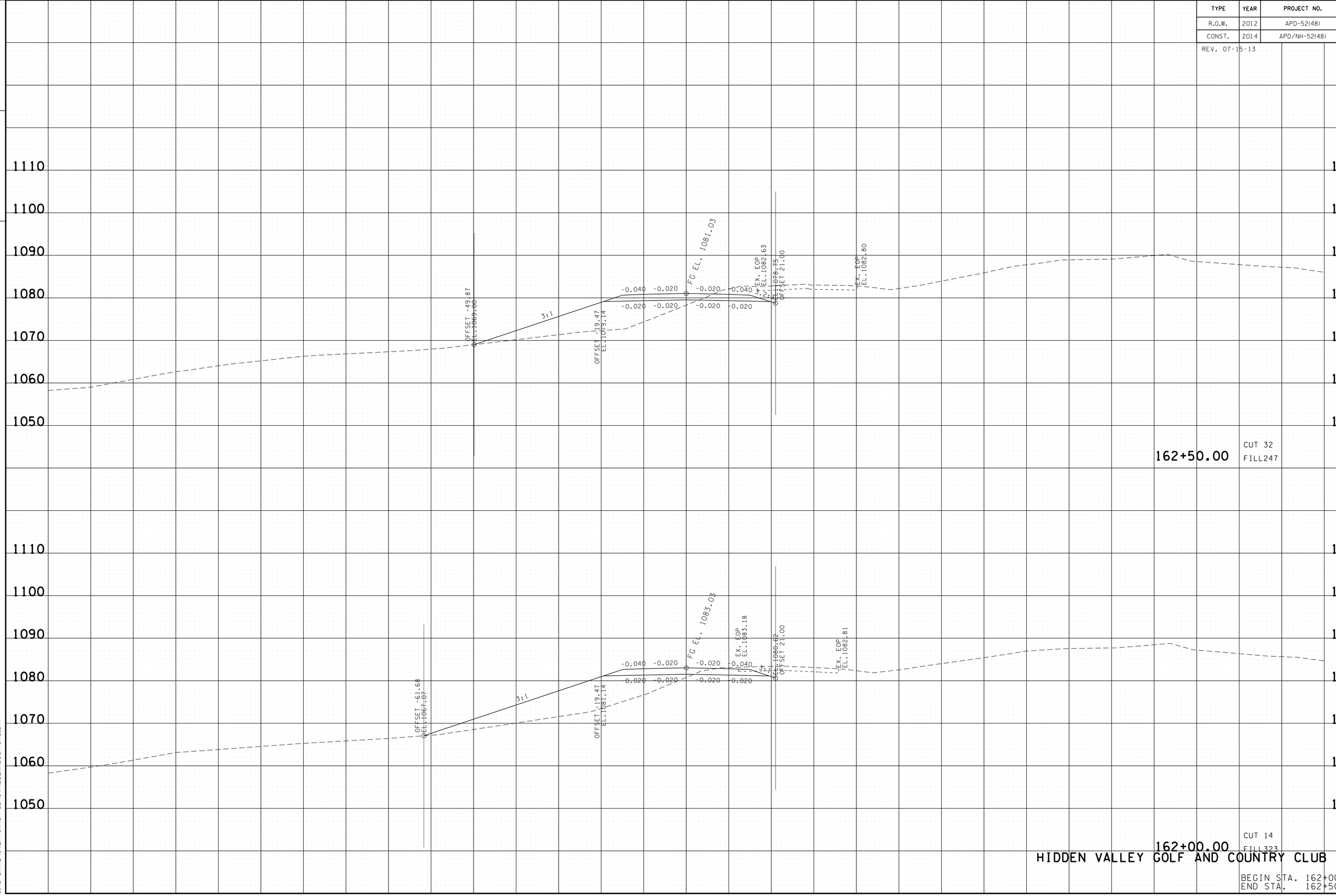
BEGIN STA. 161+50.00
END STA. 161+85.15

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVHIDDENXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	303
CONST.	2014	APD/NH-52(48)	310

REV. 07-15-13

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



HIDDEN VALLEY GOLF AND COUNTRY CLUB LN.

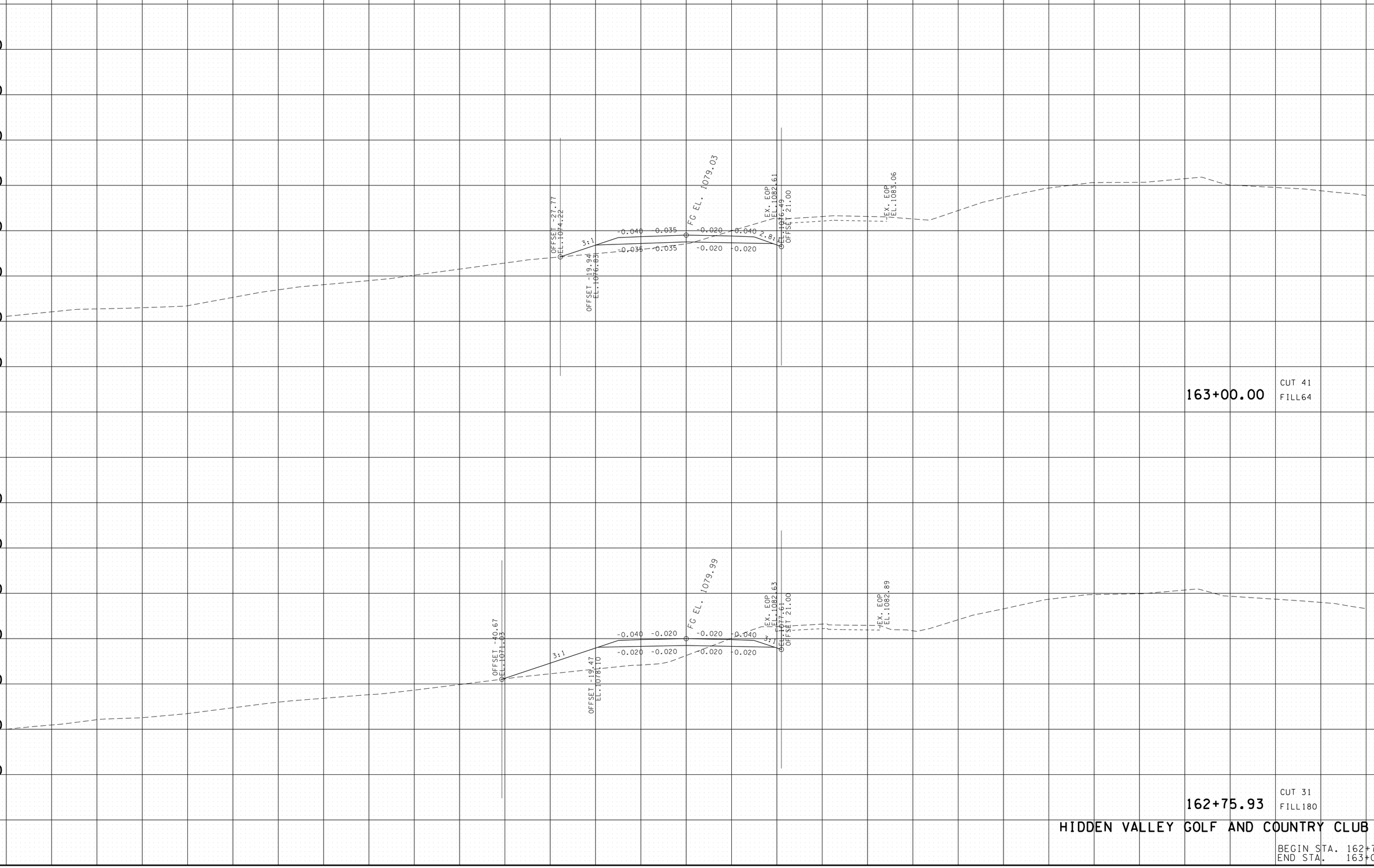
BEGIN STA. 162+00.00
END STA. 162+50.00

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVHIDDENXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	304
CONST.	2014	APD/NH-52(48)	311

REV. 07-15-13

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



HIDDEN VALLEY GOLF AND COUNTRY CLUB LN.

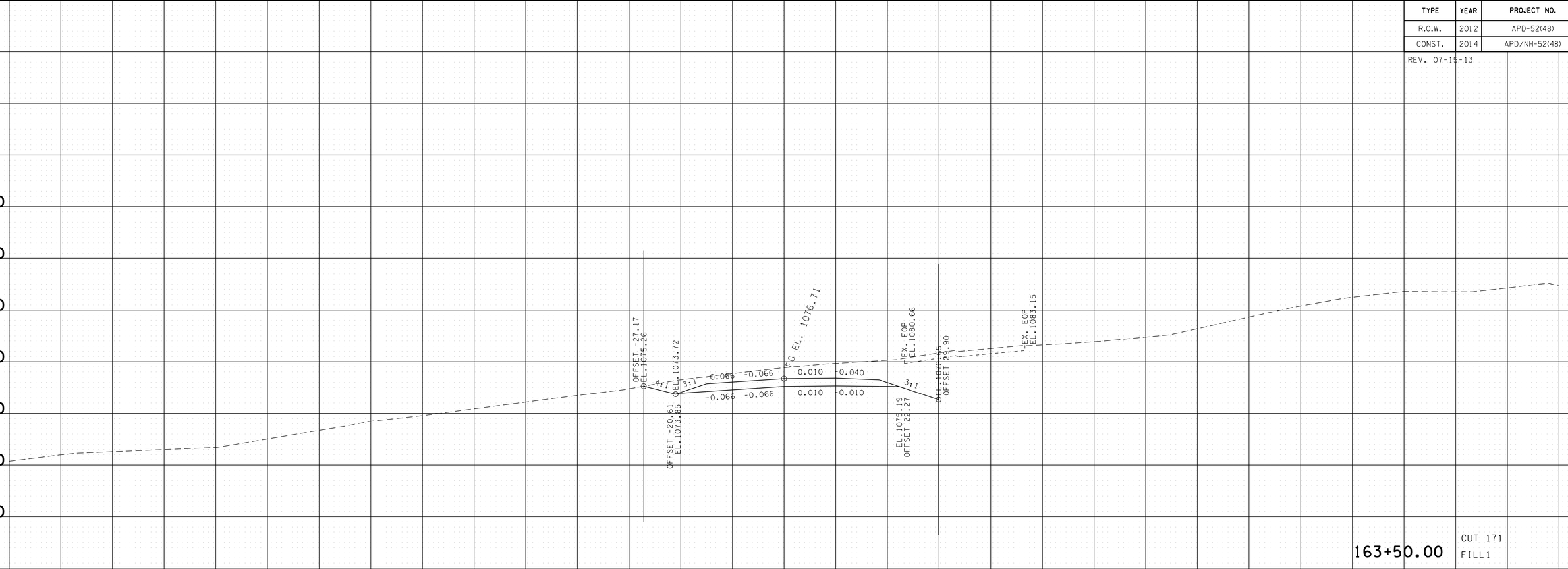
BEGIN STA. 162+75.93
END STA. 163+00.00

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVHIDDENXSections.sht

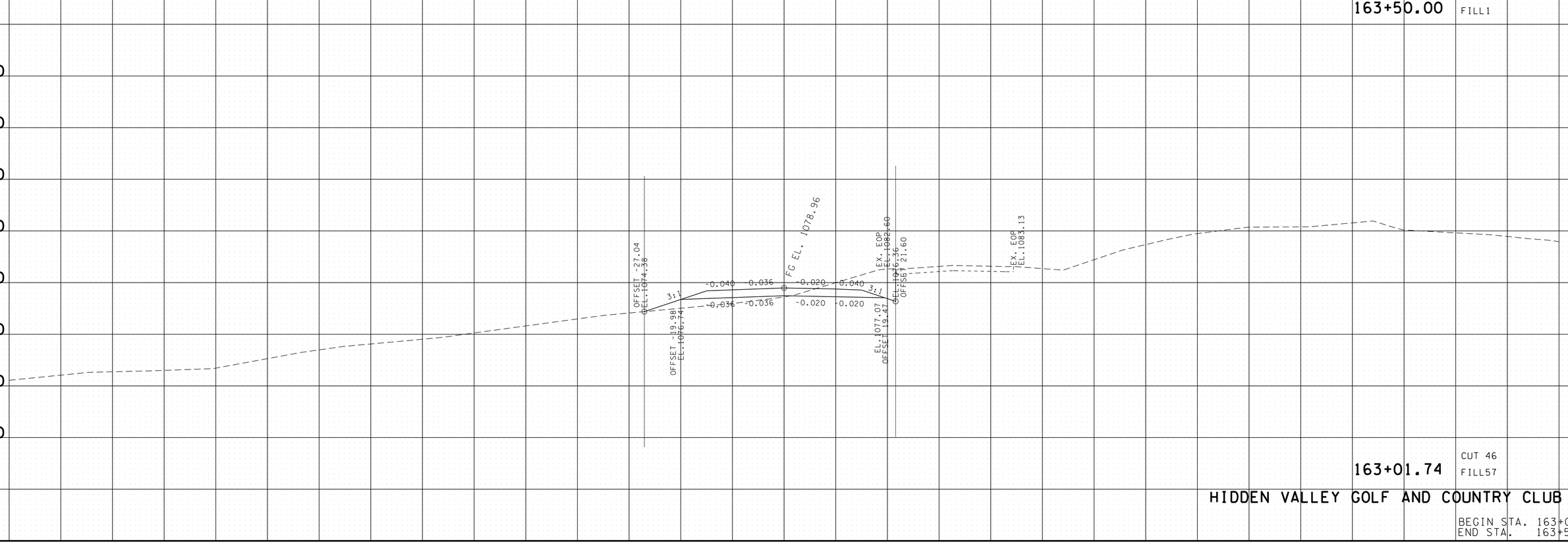
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	305
CONST.	2014	APD/NH-52(48)	312

REV. 07-15-13

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



163+50.00 CUT 171 FILL1



163+01.74 CUT 46 FILL57

HIDDEN VALLEY GOLF AND COUNTRY CLUB LN.

BEGIN STA. 163+01.74
END STA. 163+50.00

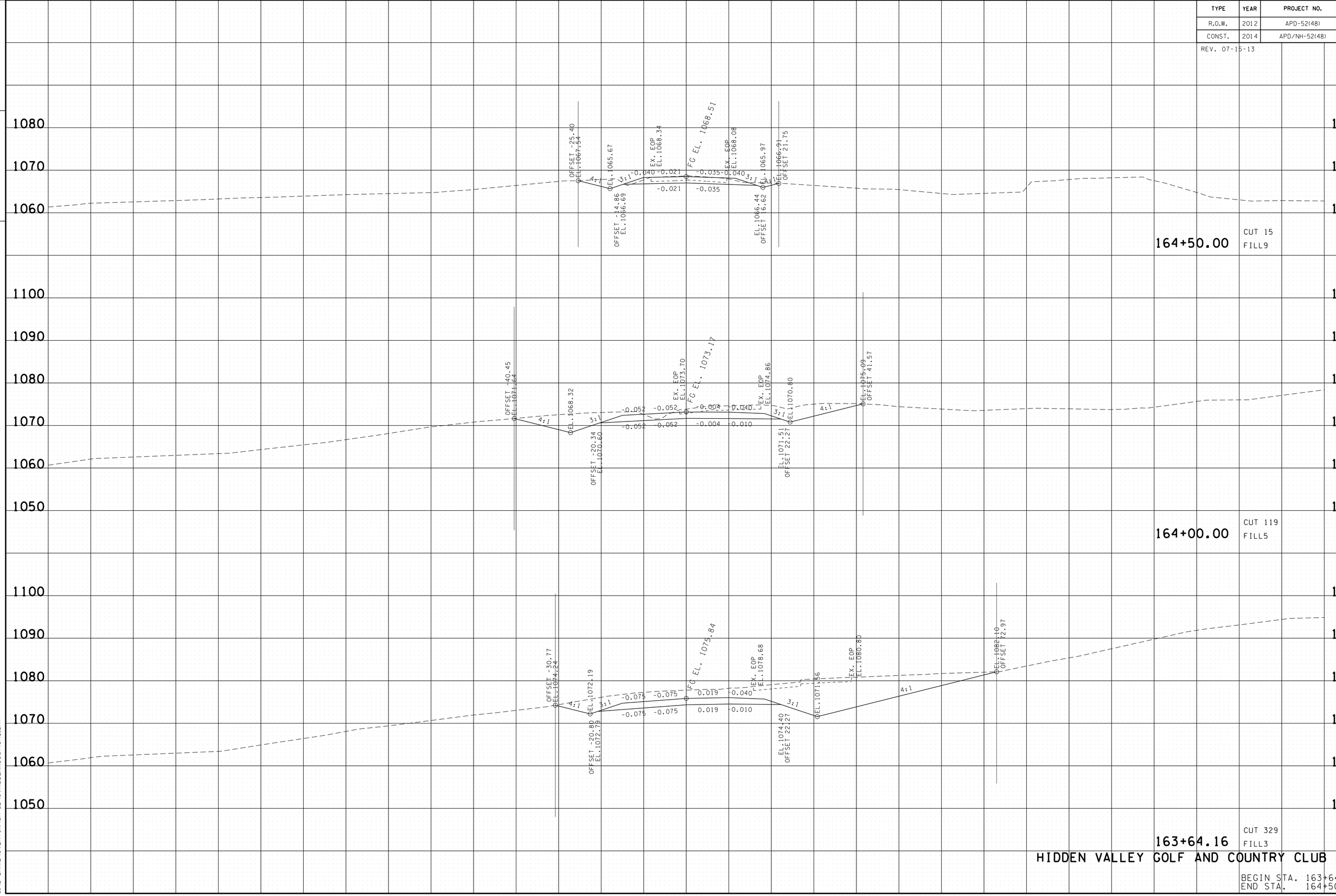
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:55
C:\D_DRIVE\OVERTON\SR-52\OVHIDDENXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	306
CONST.	2014	APD/NH-52(48)	313

REV. 07-15-13

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



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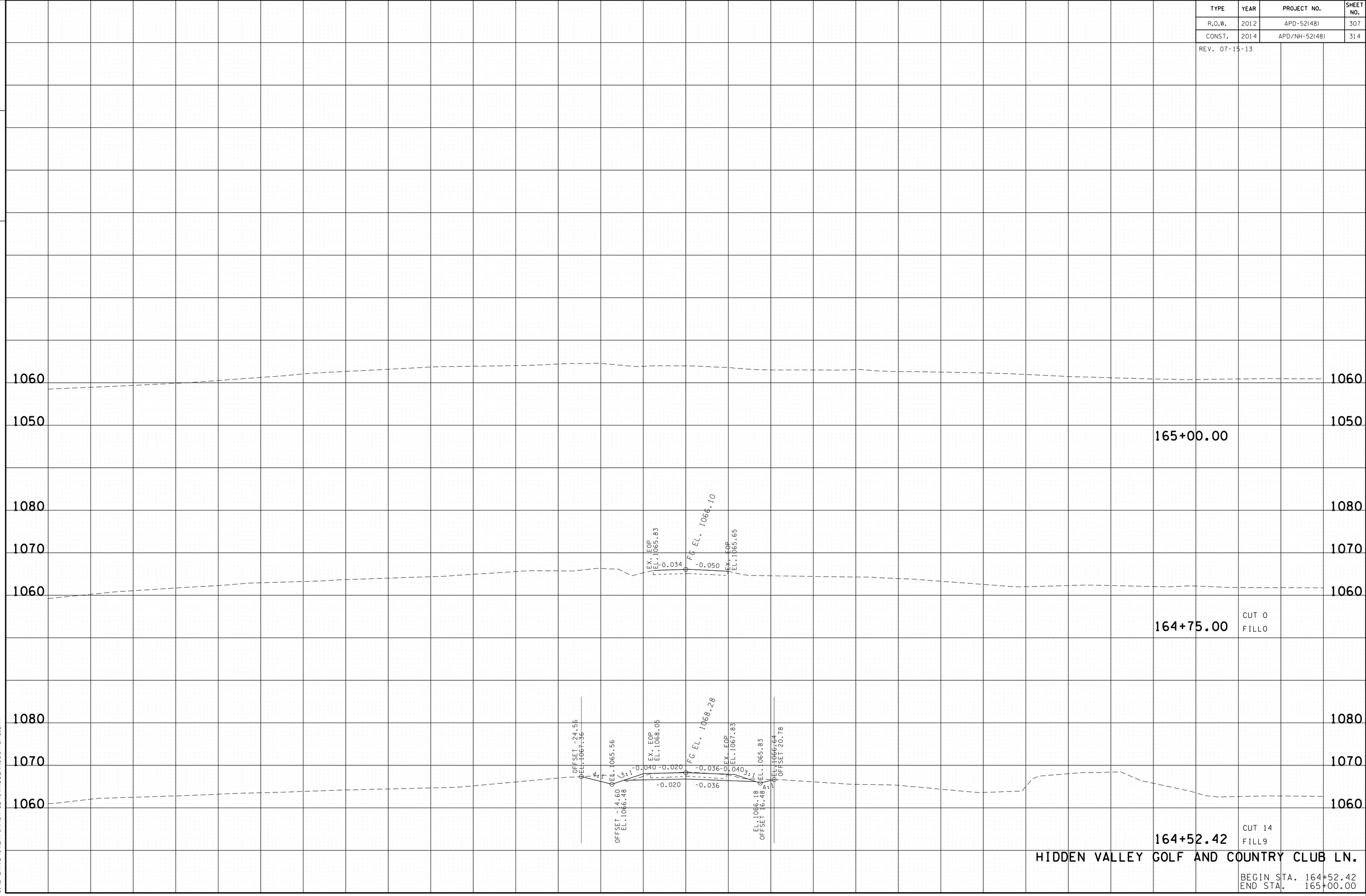
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	307
CONST.	2014	APD/NH-52(48)	314

REV. 07-15-13

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



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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	308
CONST.	2014	APD/NH-52(48)	315

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

1400
1390
1380
1370

OFFSET -15.83
EL. 1382.05
OFFSET -10.36
EL. 1382.09
EL. 1381.16
3:1
EX. EOP
EL. 1382.56
-0.033
FG EL. 1383.44
0.043
EX. EOP
EL. 1382.90
-0.033
0.043
EL. 1382.45
3:1
EL. 1382.85
OFFSET 9.62
EL. 1384.93
OFFSET 18.25

61+00.00
CUT 2
FILL18

EX. EOP
EL. 1383.28
-0.039
FG EL. 1383.47
0.050
EX. EOP
EL. 1383.69

60+85.00

60+50.00

60+00.00
CUT 0
FILL0

HOOVER CEMETERY RD.
BEGIN STA. 60+00.00
END STA. 61+00.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVHOOVCEMXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	309
CONST.	2014	APD/NH-52(48)	316

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

62+04.27

62+00.00

61+70.00

61+50.00

CUT 0
FILL204

HOOVER CEMETERY RD.

BEGIN STA. 61+50.00
END STA. 62+04.27

1400
1390
1380
1370

-0.008
EX. EOP EL.1381.29
FG EL. 1384.38
EX. EOP EL.1381.59
0.008

OFFSET -26.37
EL.1380.17
2:1
-0.015
-0.015
EX. EOP EL.1380.97
FG EL. 1383.98
EX. EOP EL.1381.27
0.018
0.018
-0.015
-0.015
0.018
0.018
OFFSET -21.40
EL.1382.66
EL.1383.57
OFFSET 32.65
2:1
EL.1381.45
OFFSET 36.88

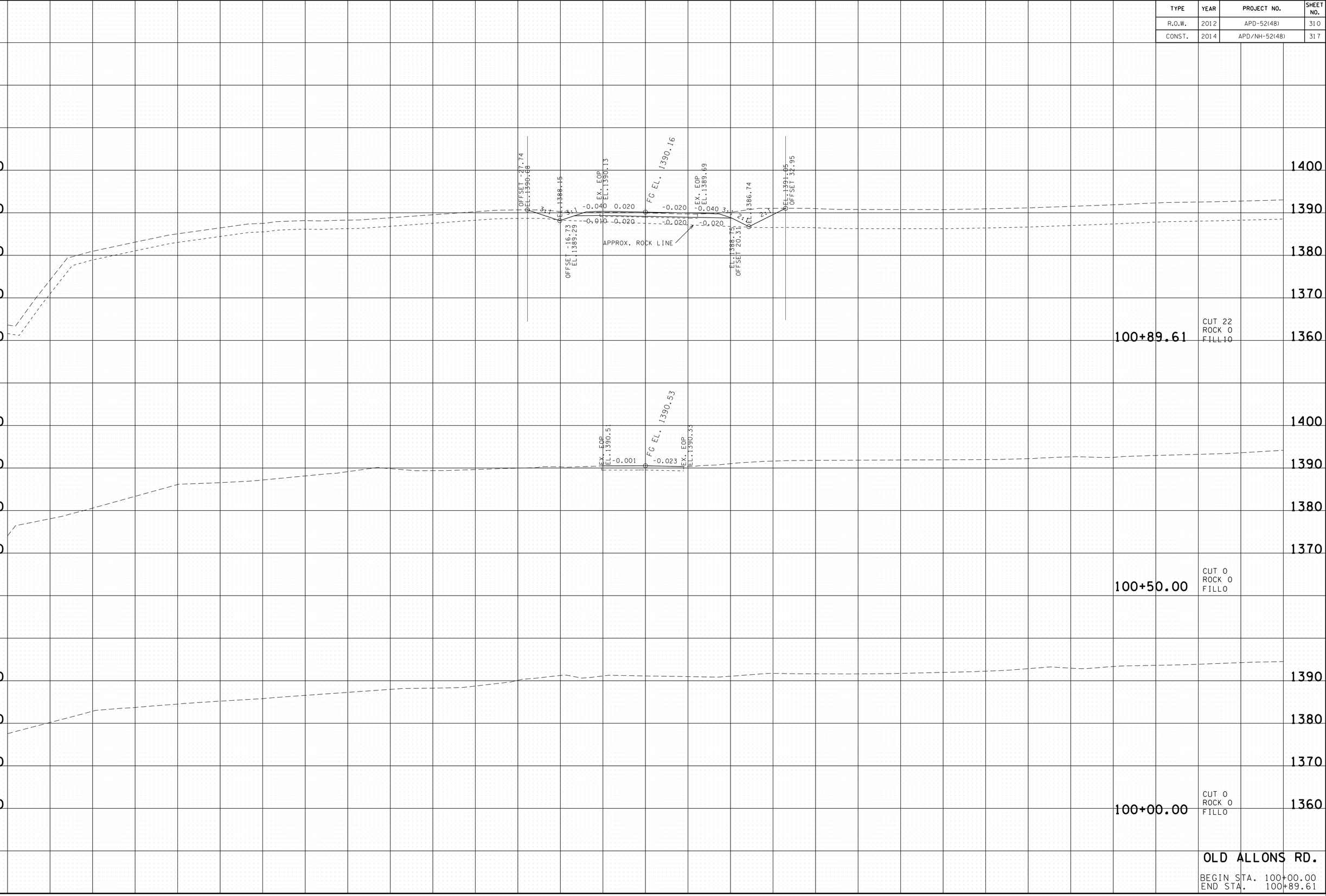
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVHOOVCEMXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	310
CONST.	2014	APD/NH-52(48)	317

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



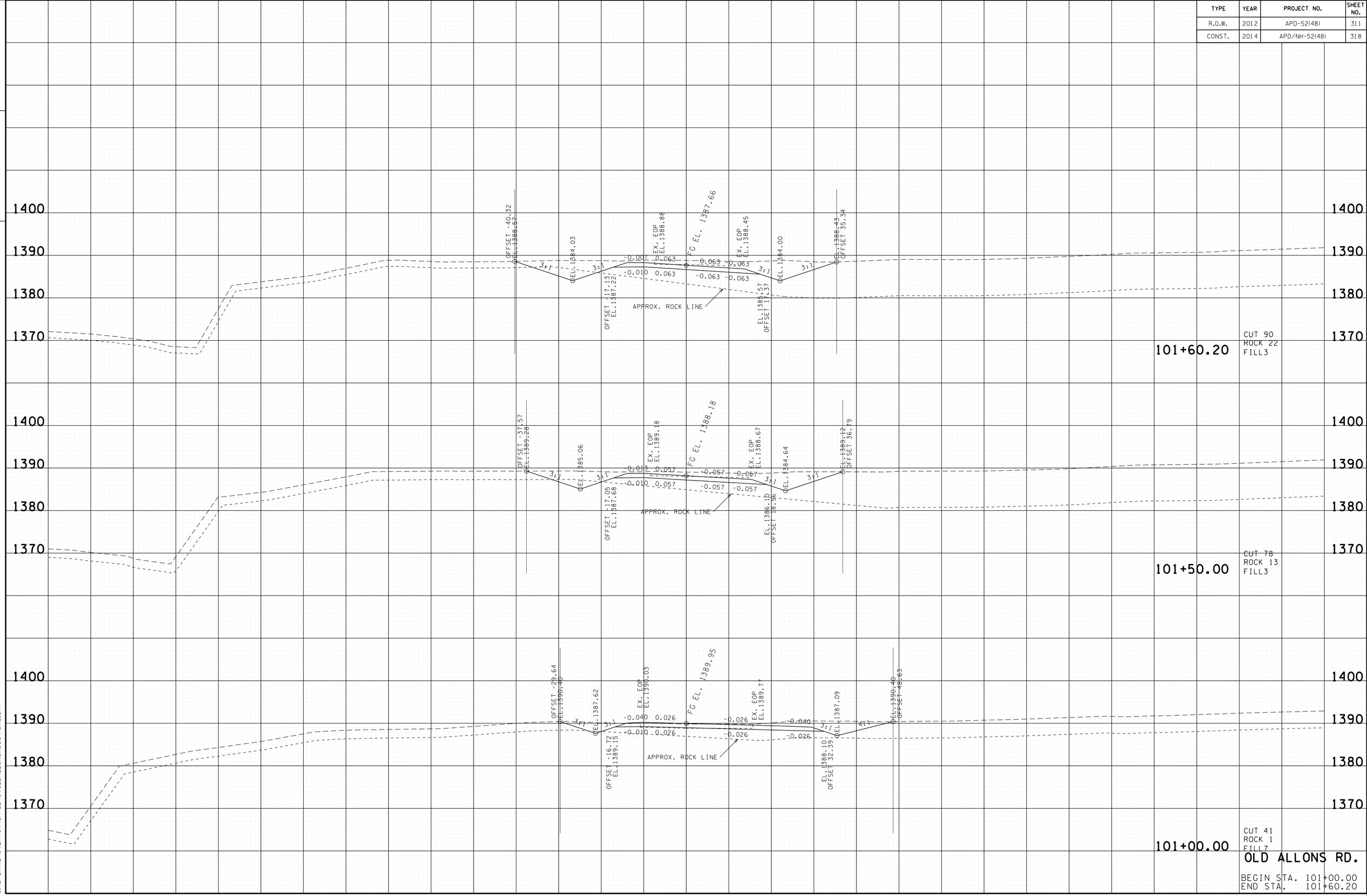
OLD ALLONS RD.

BEGIN STA. 100+00.00
END STA. 100+89.61

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVOLDALLONSXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	311
CONST.	2014	APD/NH-52(48)	318

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



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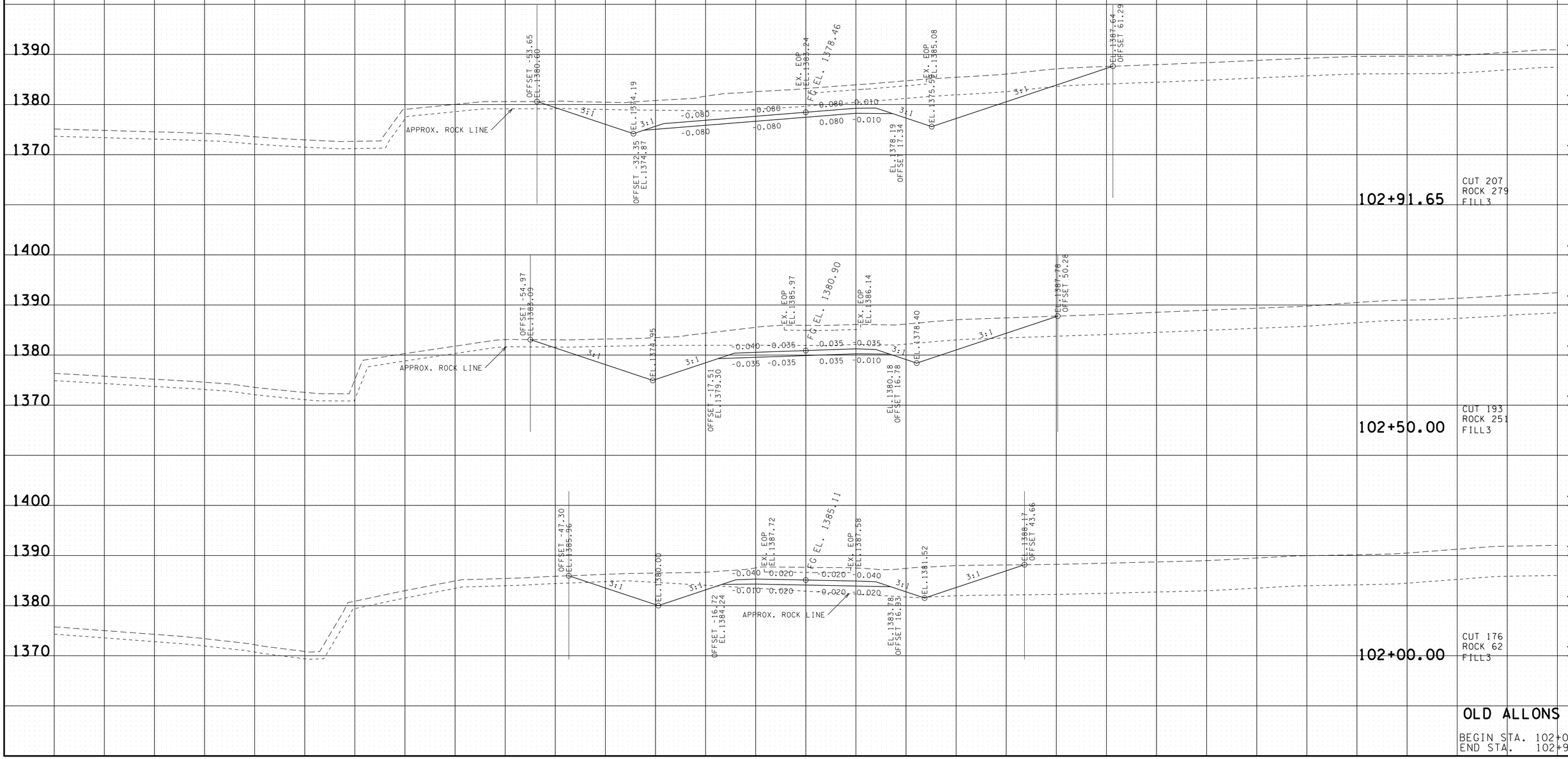
C:\D DRIVE\OVERTON\SR-52\OVOLDALLONSXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	312
CONST.	2014	APD/NH-52(48)	319

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



OLD ALLONS RD.

BEGIN STA. 102+00.00
END STA. 102+91.65

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVOLDALLONSXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	313
CONST.	2014	APD/NH-52(48)	320

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

1390
1380
1370
1360

103+94.06

EX. EOP
EL. 1377.21

-0.042

F.G EL. 1377.88

-0.042

EX. EOP
EL. 1379.71

103+51.87

OFFSET -67.11
EL. 1373.80

3:1

OFFSET -62.54
EL. 1374.14

-0.044
-0.044

EX. EOP
EL. 1377.23

-0.044
-0.044

F.G EL. 1377.86

-0.044
-0.044

EX. EOP
EL. 1379.79

-0.026
-0.010

EL. 1377.50
OFFSET 33.79

3:1

EL. 1376.30

3:1

EL. 1381.09
OFFSET 51.75

APPROX. ROCK LINE

103+50.00

CUT 58
ROCK 0
FILL52

OFFSET -58.80
EL. 1379.60

3:1

OFFSET 38.12
EL. 1374.33

3:1

-0.075
-0.075

EX. EOP
EL. 1382.09

-0.075
-0.075

F.G EL. 1378.18

0.075
0.075

EX. EOP
EL. 1384.53

-0.005
-0.010

EL. 1377.85
OFFSET 17.28

EL. 1374.97

3:1

EL. 1367.23
OFFSET 62.73

APPROX. ROCK LINE

103+00.00

CUT 136
ROCK 360
FILL3

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

OLD ALLONS RD.

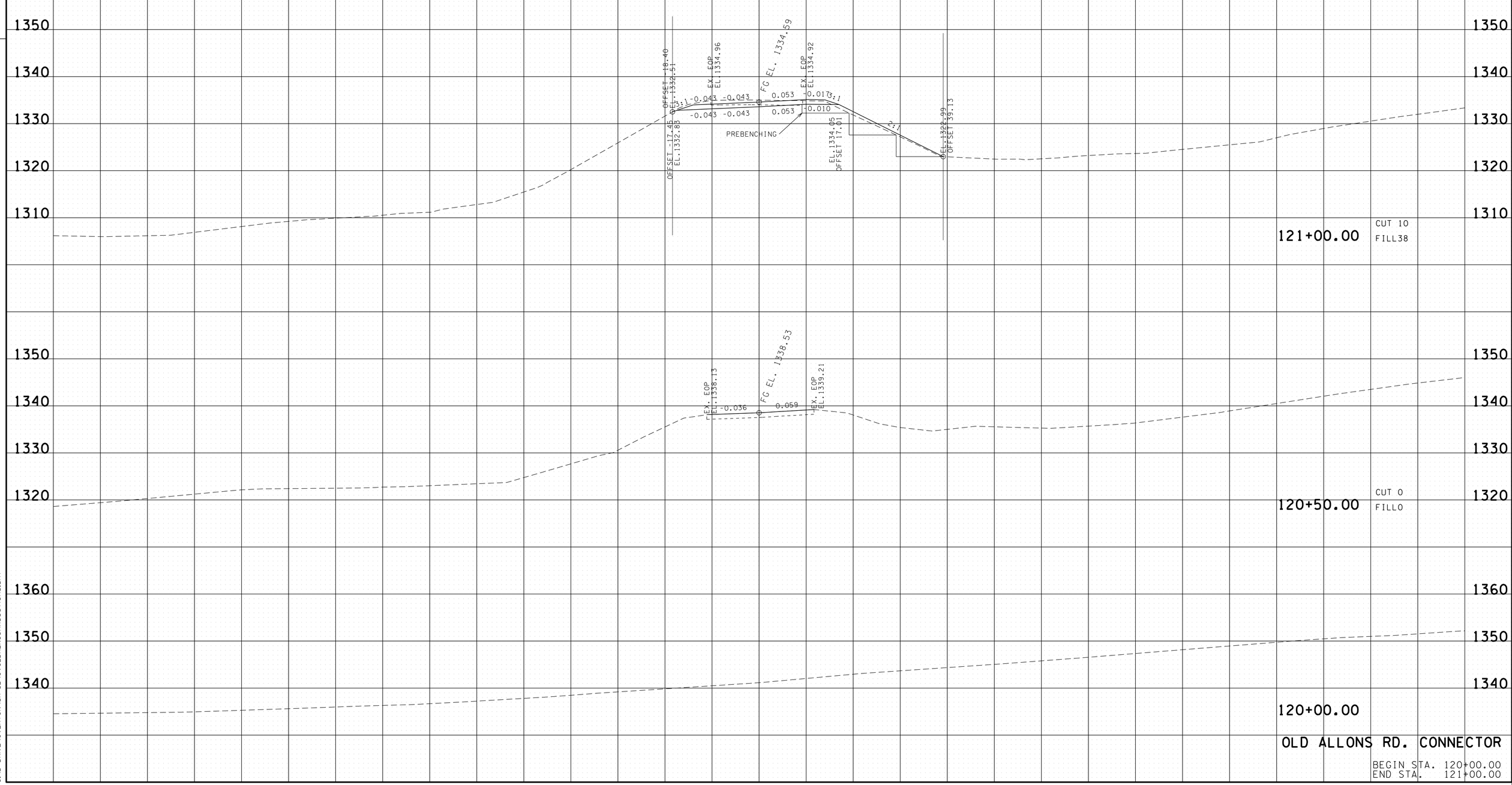
BEGIN STA. 103+00.00
END STA. 103+94.06

22-JAN-2015 07:55
C:\D DRIVE\OVERTON\SR-52\OVOLDALLONSXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	314
CONST.	2014	APD/NH-52(48)	321

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

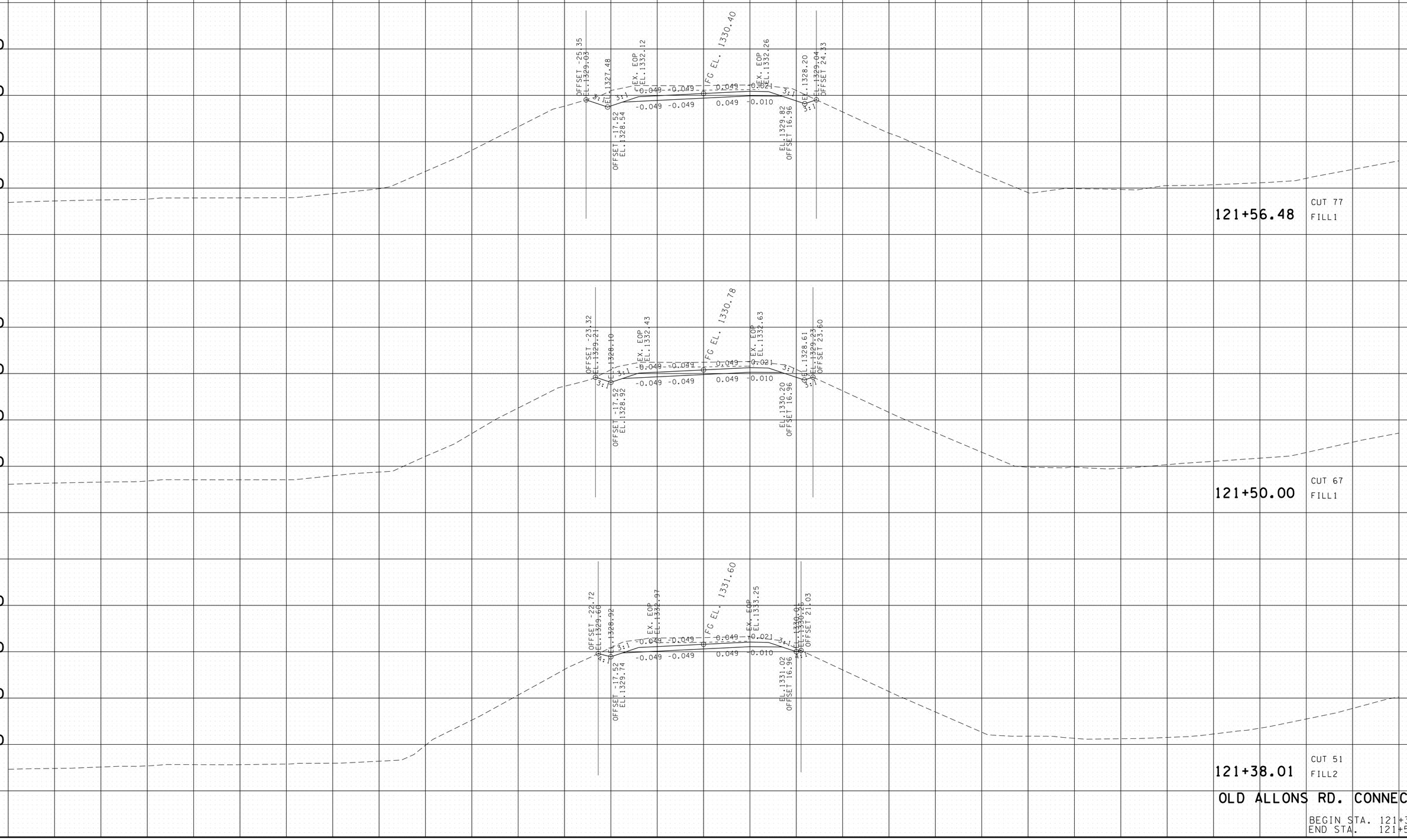


22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVOLDALNConXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	315
CONST.	2014	APD/NH-52(48)	322

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



OLD ALLONS RD. CONNECTOR

BEGIN STA. 121+38.01
END STA. 121+56.48

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVOLDALNConXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	316
CONST.	2014	APD/NH-52(48)	323

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

1340
1330
1320

122+50.00

1340
1330
1320

1340
1330
1320

FG EL. 1328.81

-0.050

0.049

122+36.29

1340
1330
1320

OFFSET -44.15
EL. 1327.19

EX. EOP
EL. 1328.16

EL. 1323.31

3:1

3:1

OFFSET -22.00
EL. 1326.81

-0.049

-0.049

-0.049

-0.049

FG EL. 1328.90

0.049

-0.021

0.049

-0.010

OFFSET 19.55
EL. 1328.37

3:1

3:1

EL. 1325.44
EX. EOP
EL. 1331.04

OFFSET 40.41
EL. 1329.46

1340
1330
1320

CUT 148
FILL2

122+00.00

OLD ALLONS RD. CONNECTOR

BEGIN STA. 122+00.00
END STA. 122+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:56
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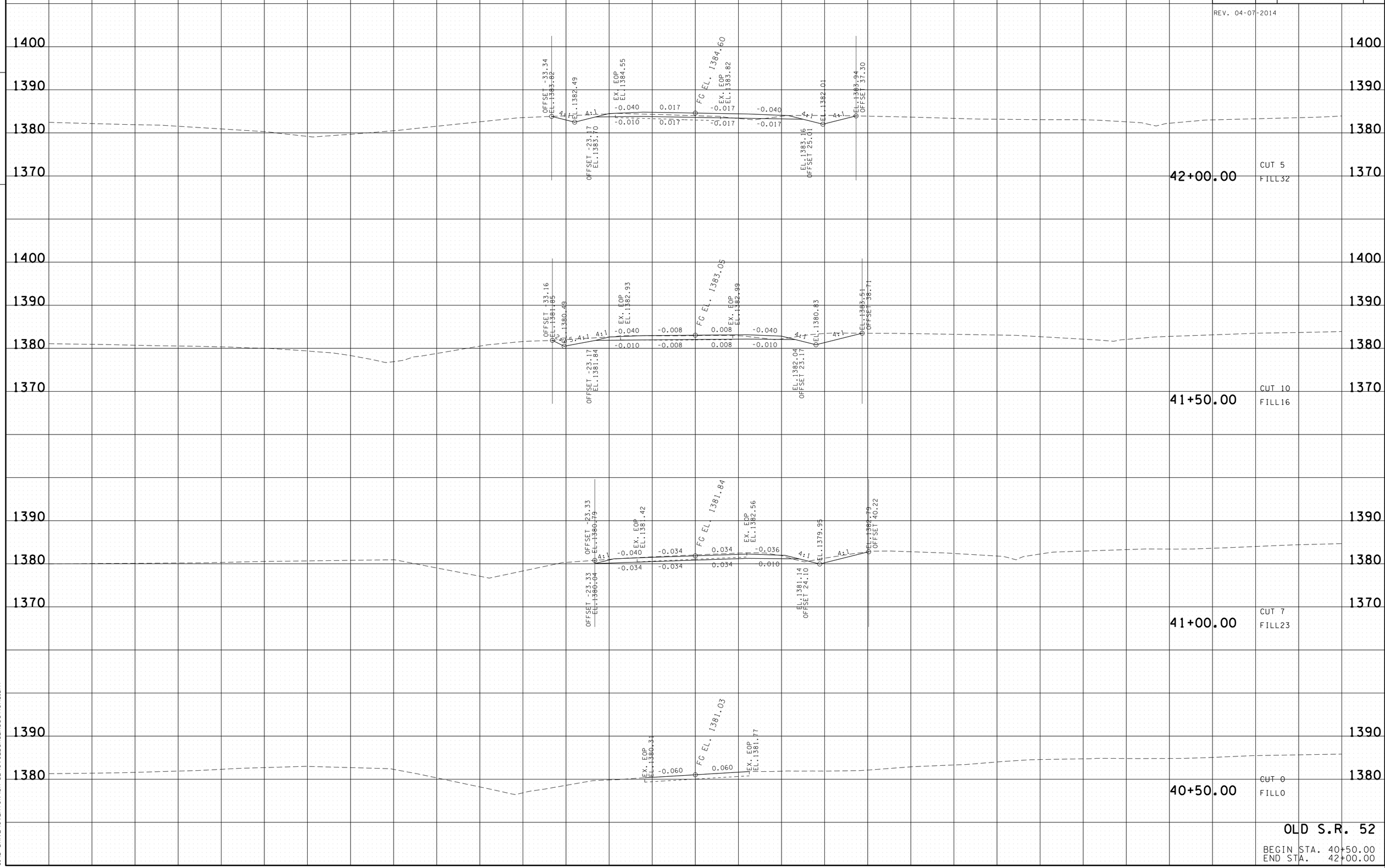
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	317
CONST.	2014	APD/NH-52(48)	324

REV. 04-07-2014

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



OLD S.R. 52

BEGIN STA. 40+50.00
END STA. 42+00.00

22-JAN-2015 07:56
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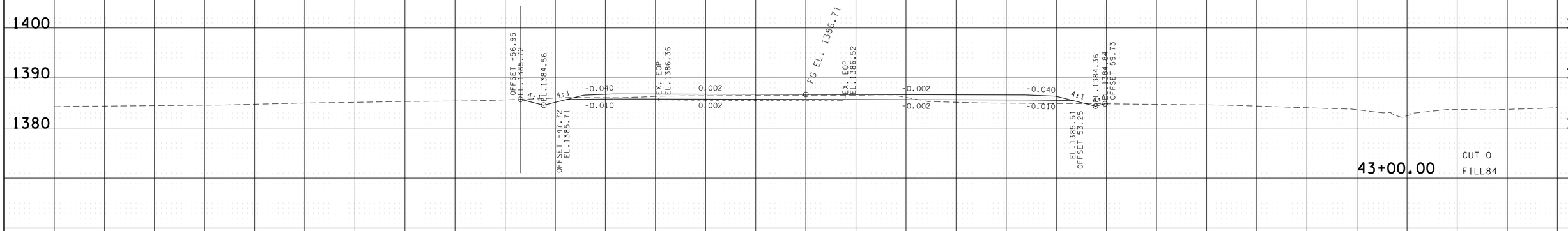
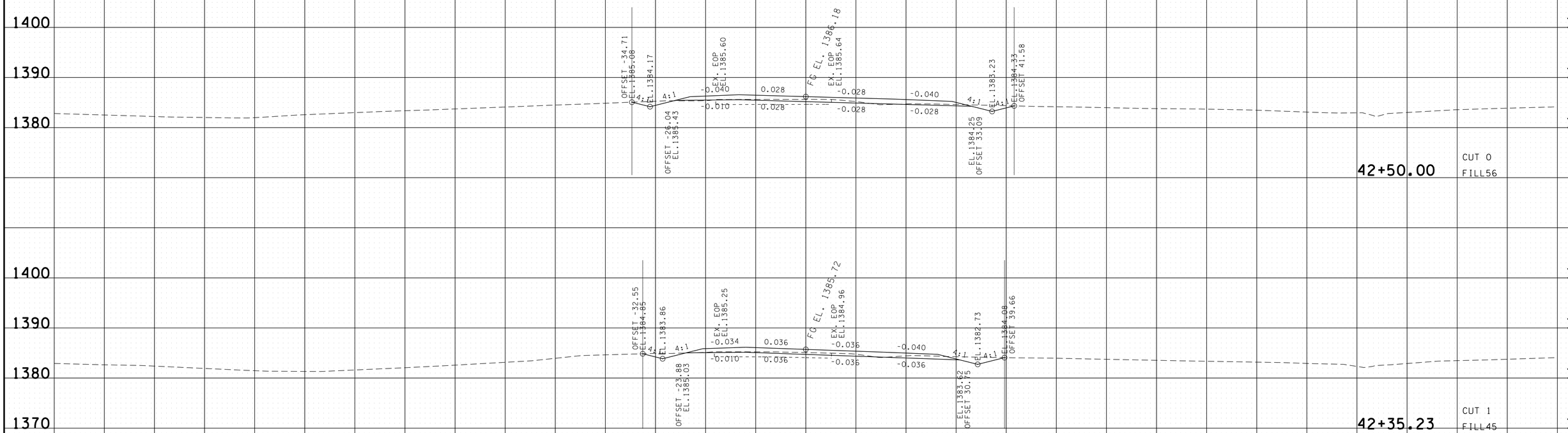
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	318
CONST.	2014	APD/NH-52(48)	325

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





OLD S.R. 52

BEGIN STA. 42+35.23
END STA. 43+00.00

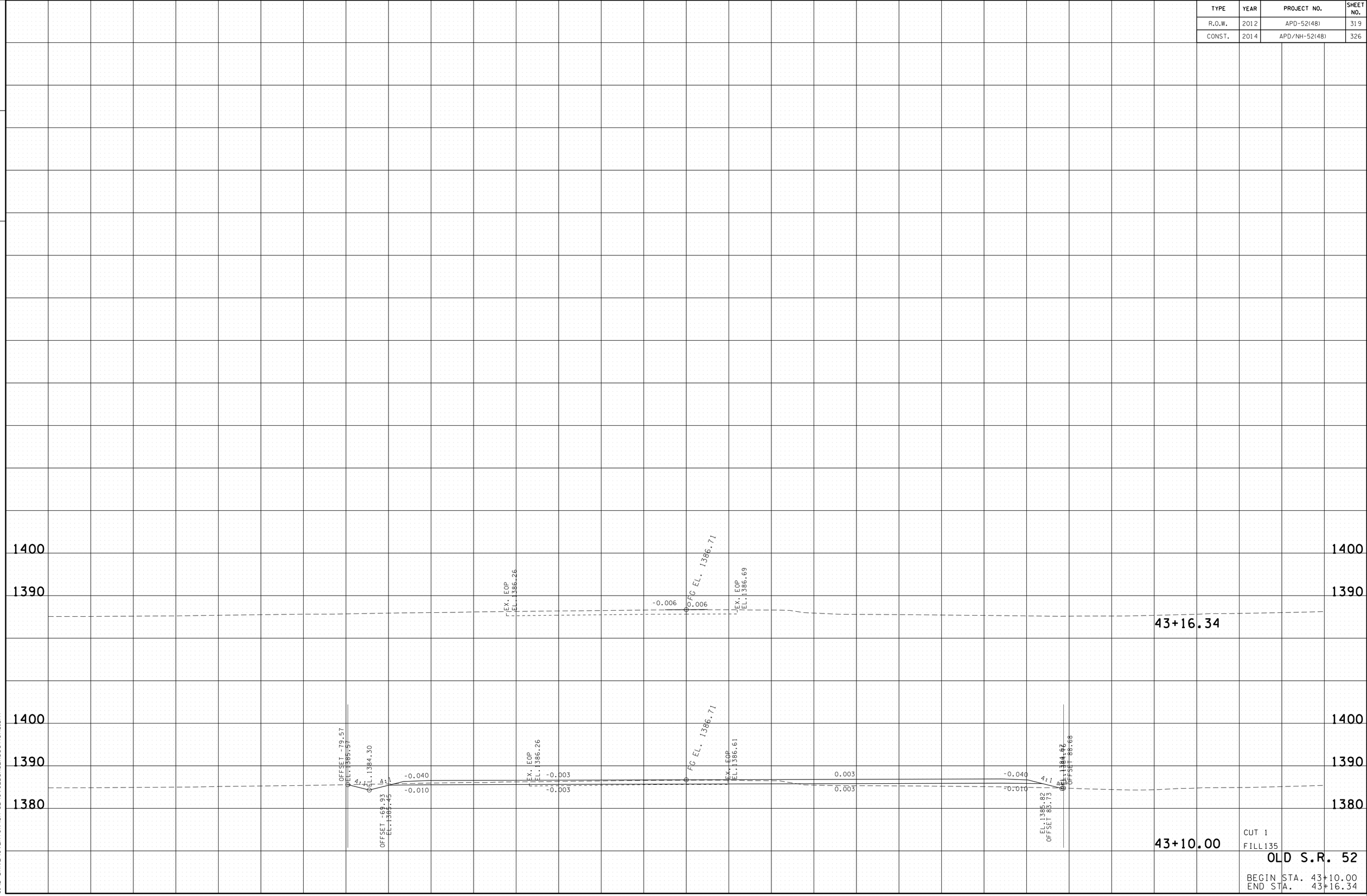
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVOLDSR52XSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	319
CONST.	2014	APD/NH-52(48)	326



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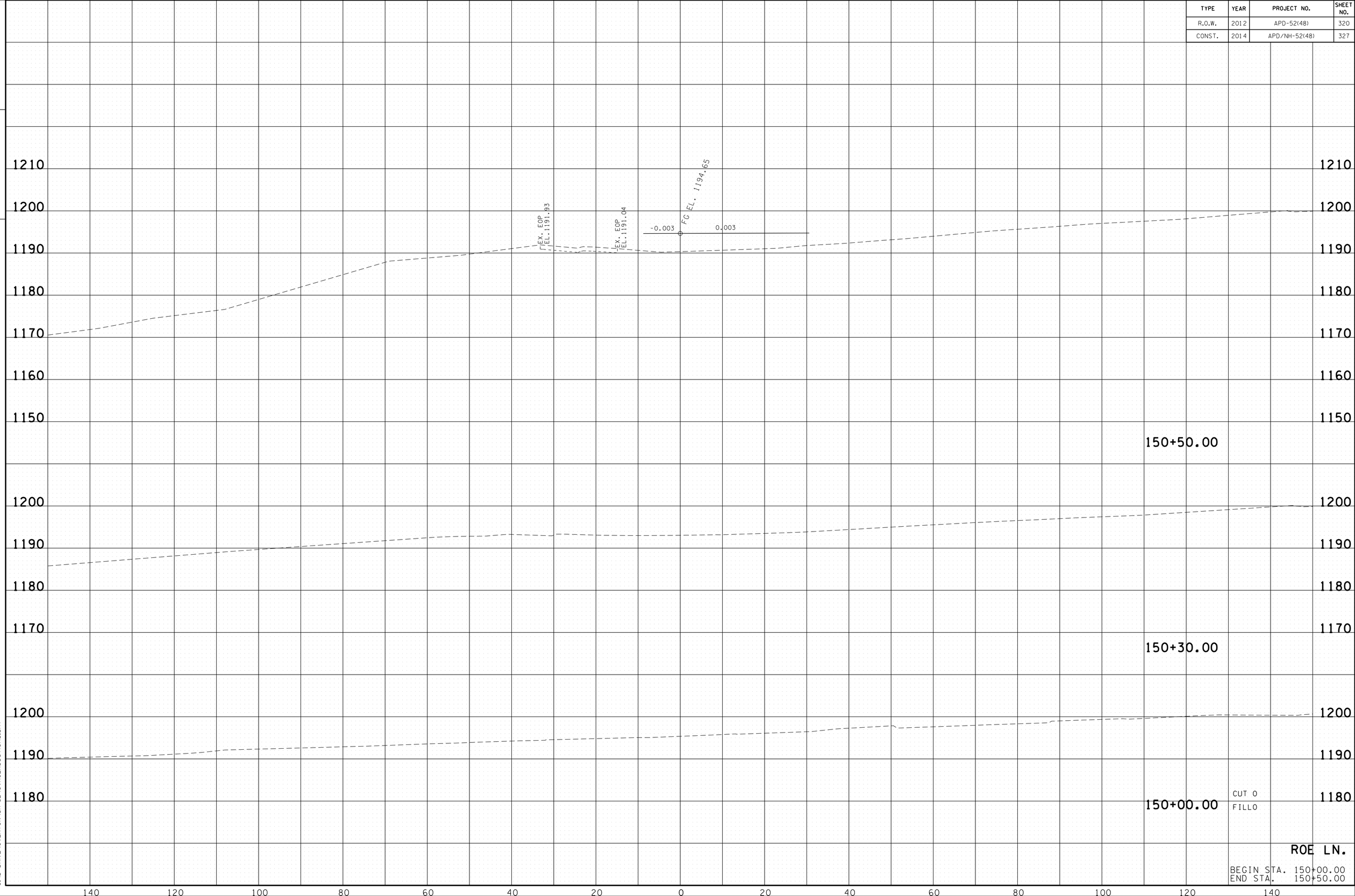
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	320
CONST.	2014	APD/NH-52(48)	327

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



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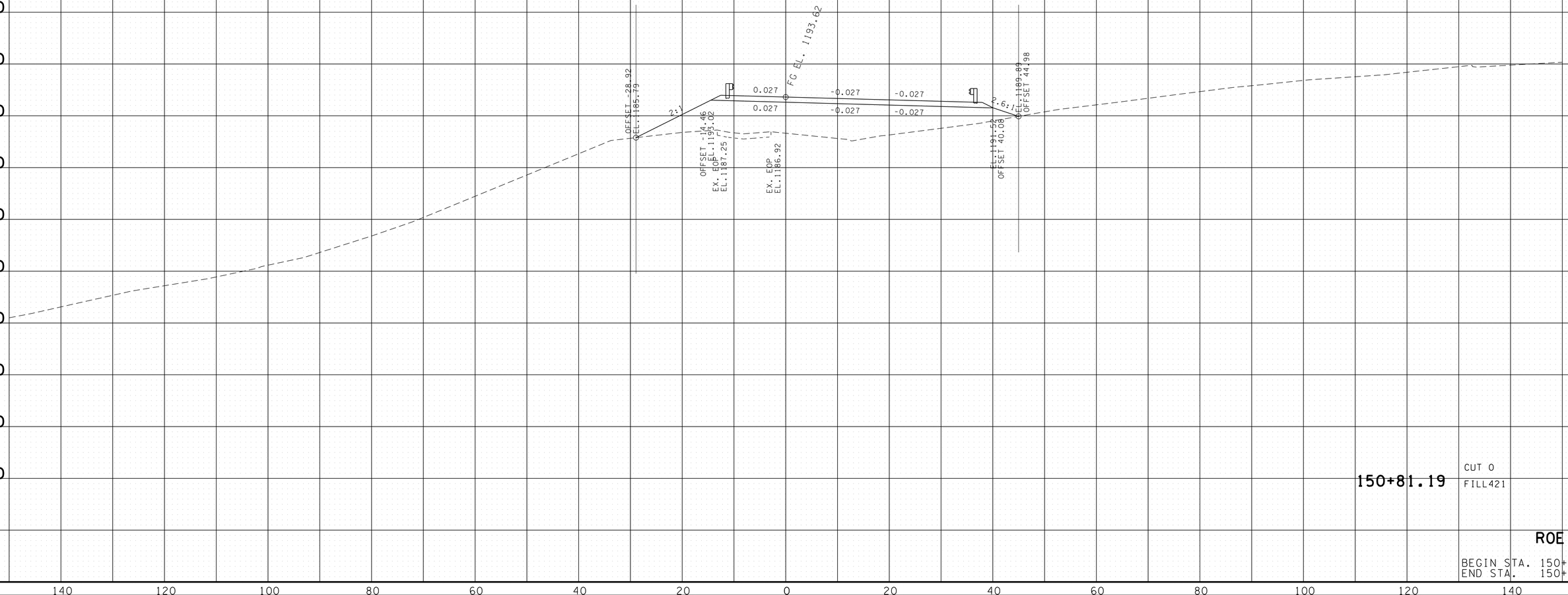
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	321
CONST.	2014	APD/NH-52(48)	328



150+81.19

CUT 0
FILL421

ROE LN.

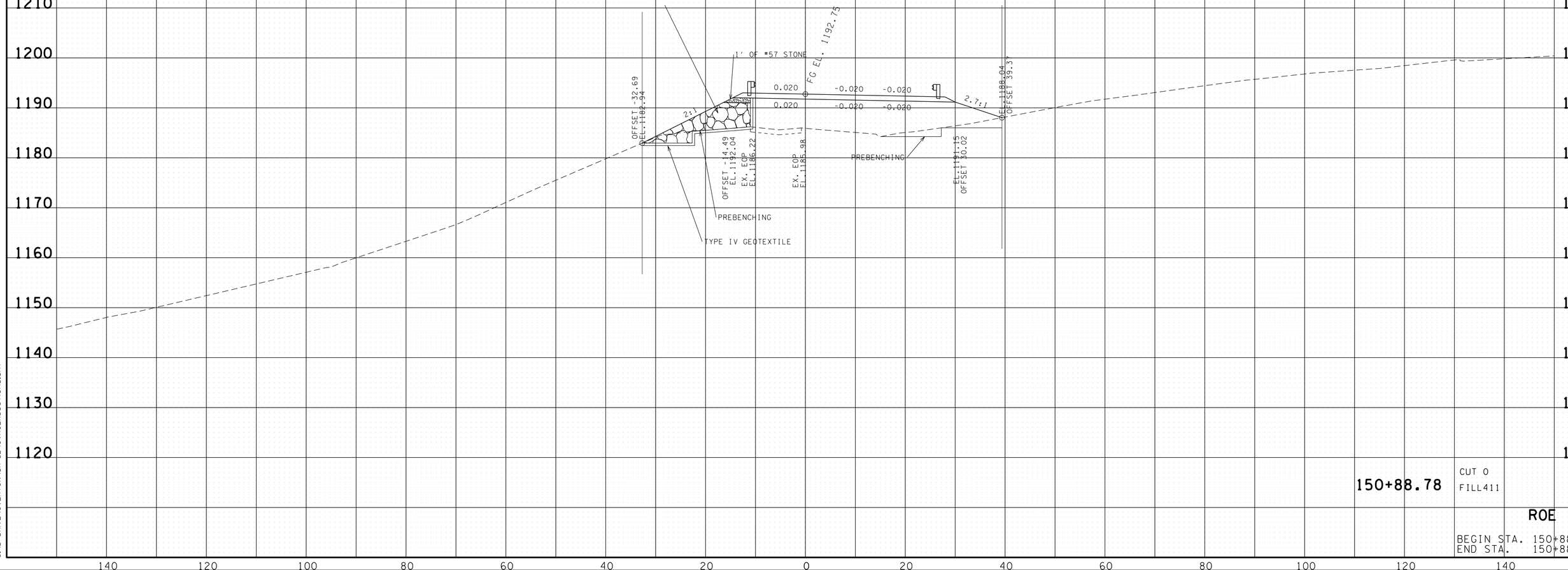
BEGIN STA. 150+81.19
END STA. 150+81.19

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVROEXSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	322
CONST.	2014	APD/NH-52(48)	329



150+88.78

CUT 0
FILL411

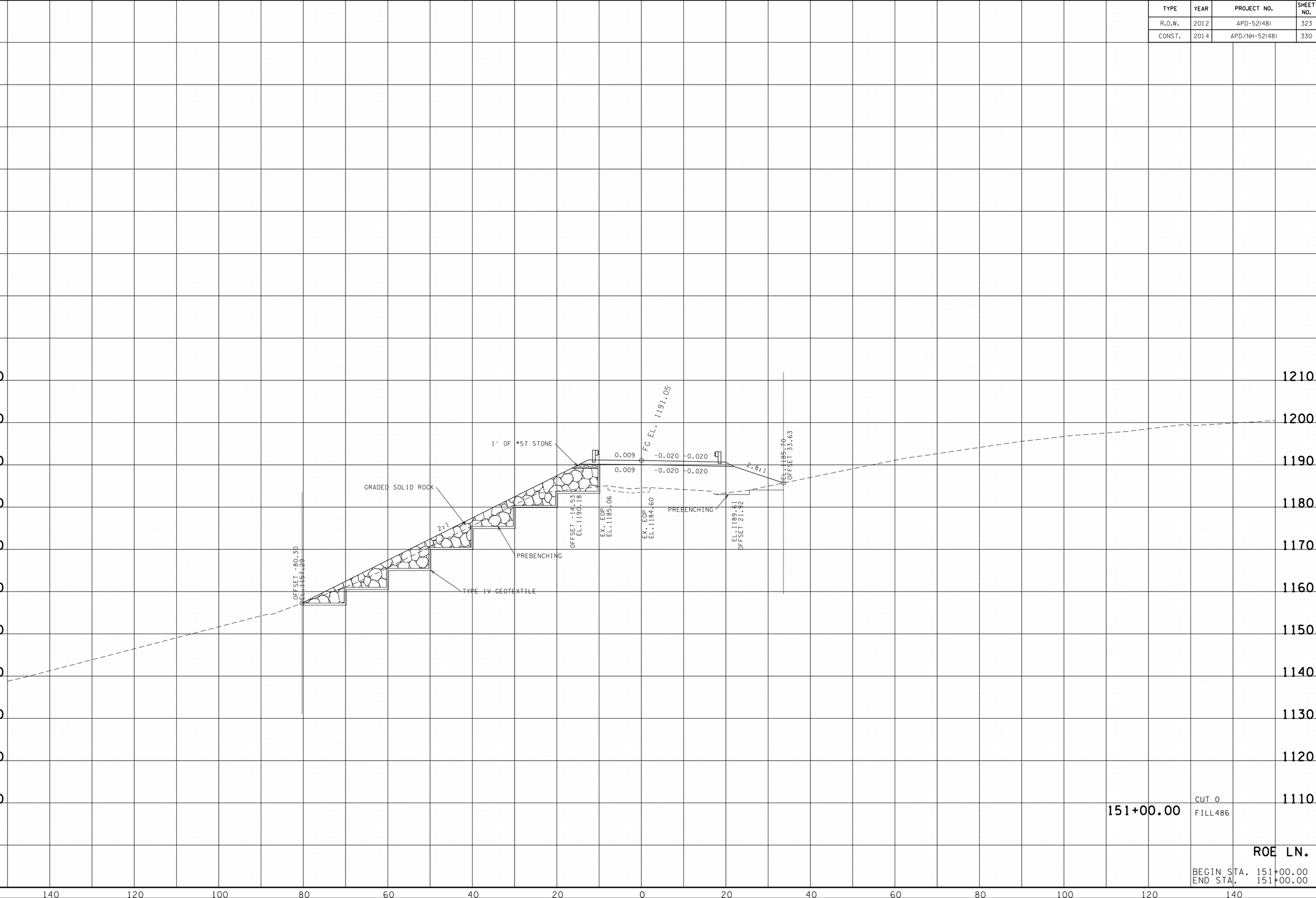
ROE LN.

BEGIN STA. 150+88.78
END STA. 150+88.78

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVROEXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	323
CONST.	2014	APD/NH-52(48)	330

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



151+00.00

CUT 0
FILL486

ROE LN.

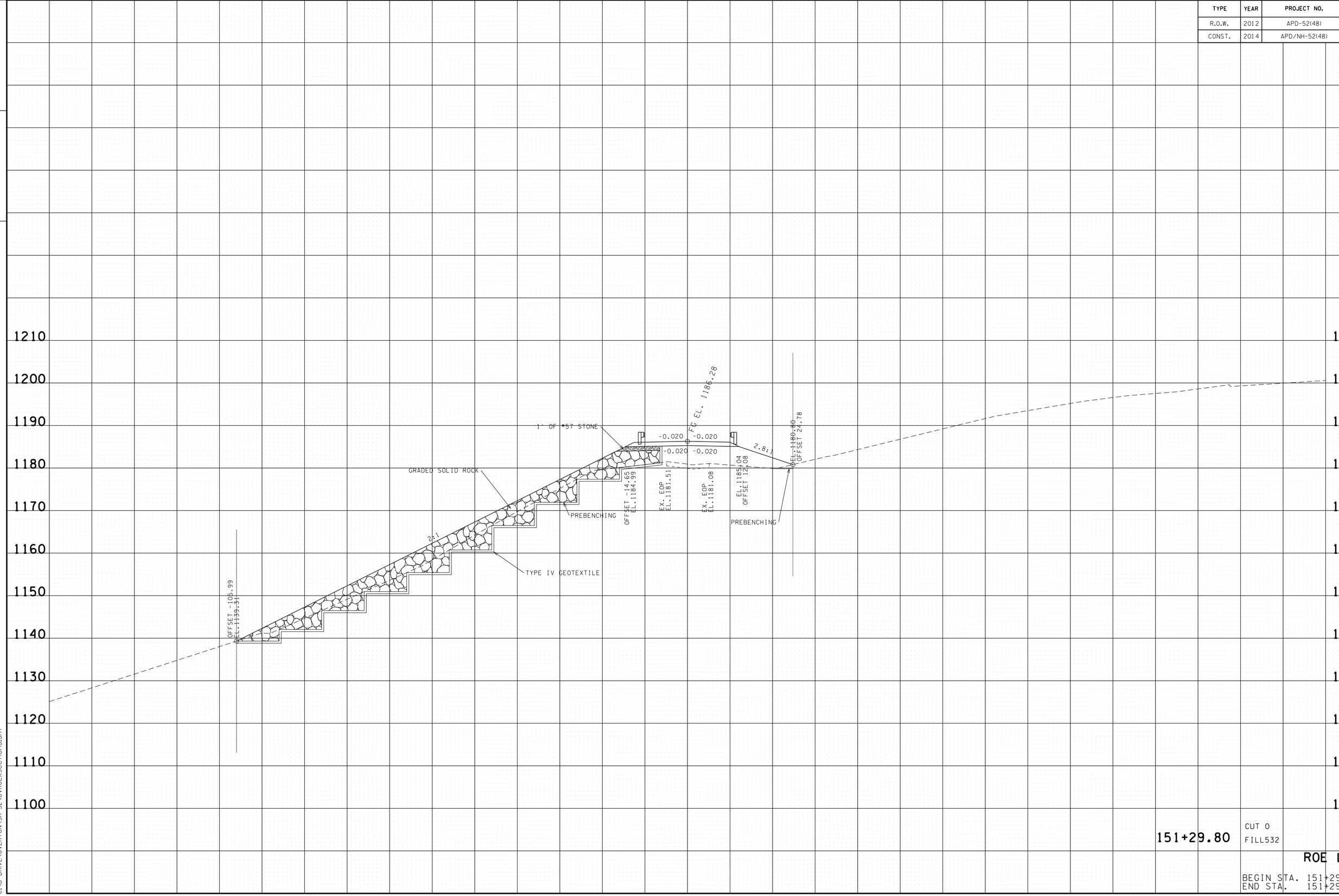
BEGIN STA. 151+00.00
END STA. 151+00.00

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVROEXSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	324
CONST.	2014	APD/NH-52(48)	331



151+29.80

CUT 0
FILL532

ROE LN.

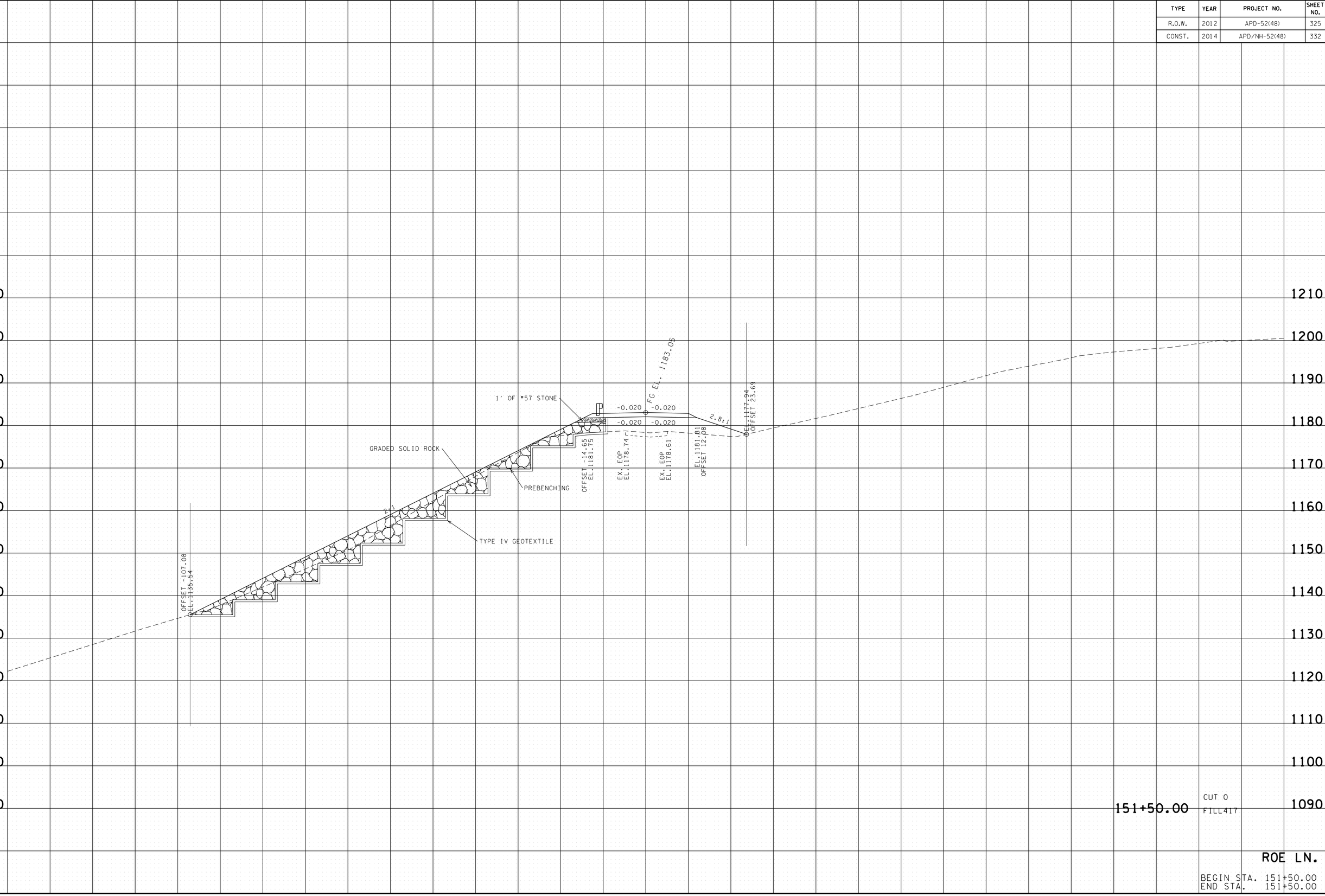
BEGIN STA. 151+29.80
END STA. 151+29.80

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVROEXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	325
CONST.	2014	APD/NH-52(48)	332

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



151+50.00

CUT 0
FILL417

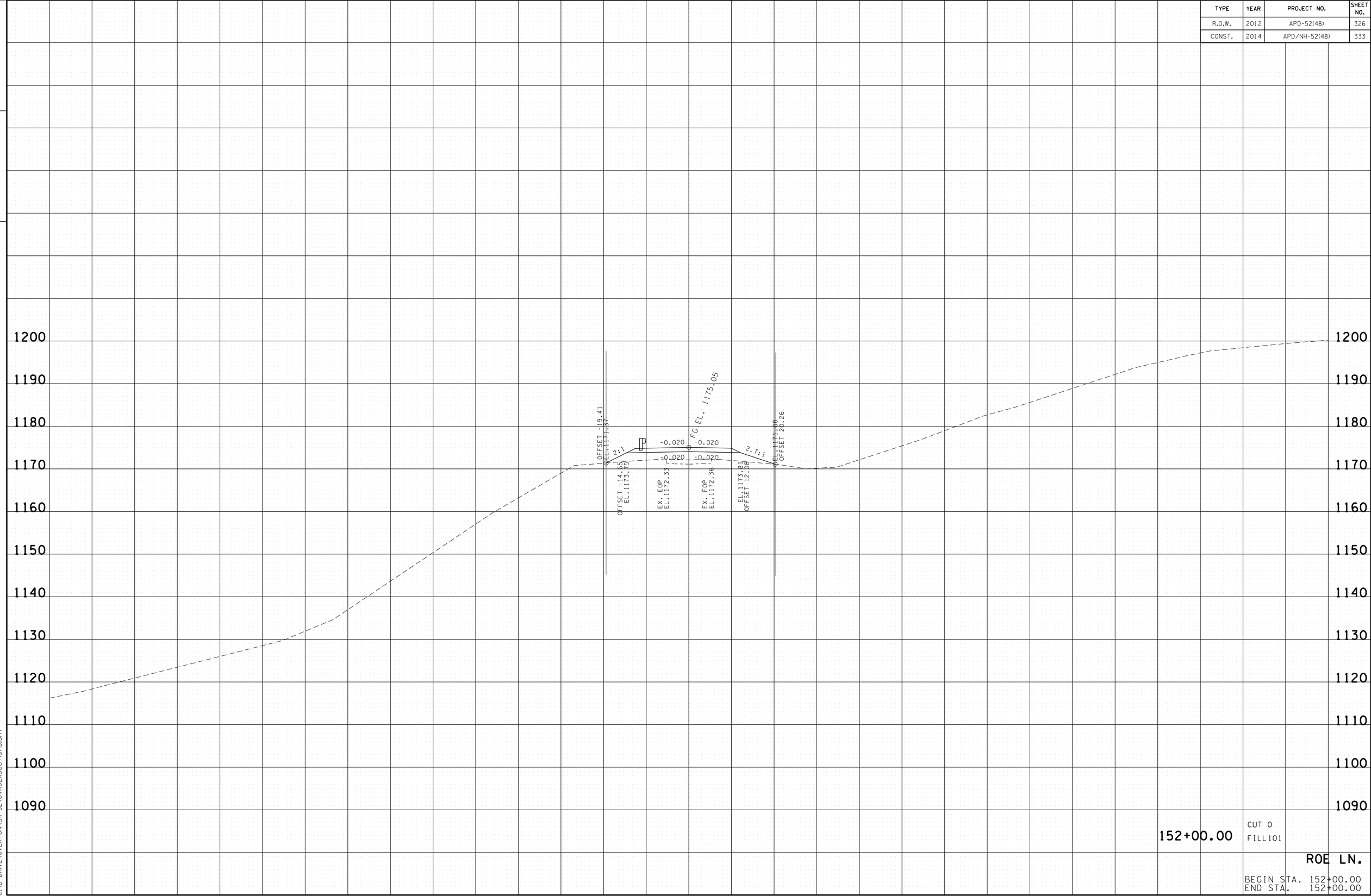
ROE LN.

BEGIN STA. 151+50.00
END STA. 151+50.00

22-JAN-2015 07:56
C:\D_DRIVE_OVERTON\SR-52\OVROEXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	326
CONST.	2014	APD/NH-52(48)	333

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



152+00.00

CUT 0
FILL101

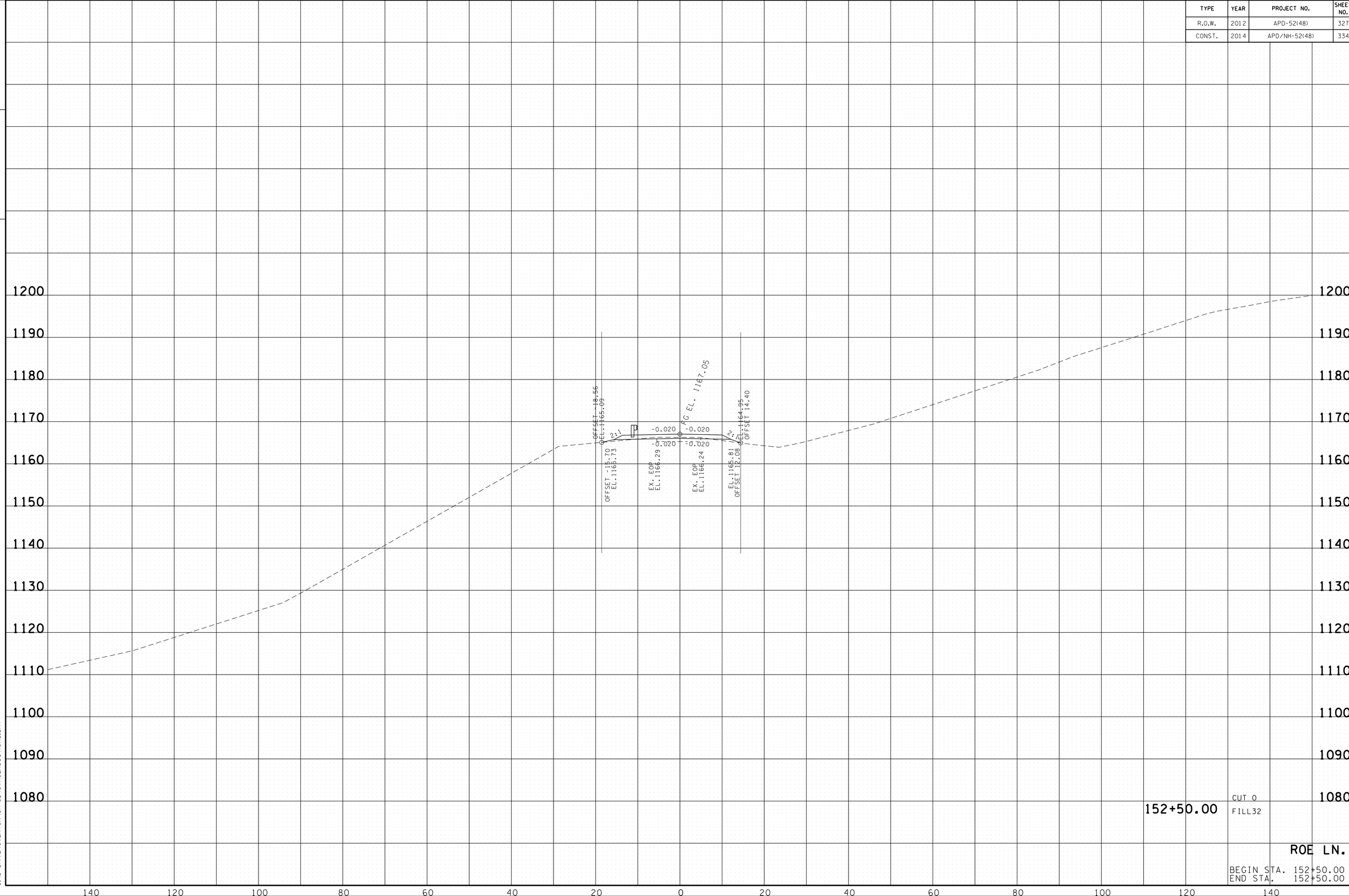
ROE LN.

BEGIN STA. 152+00.00
END STA. 152+00.00

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVROEXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	327
CONST.	2014	APD/NH-52(48)	334

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



152+50.00

CUT 0
FILL32

ROE LN.

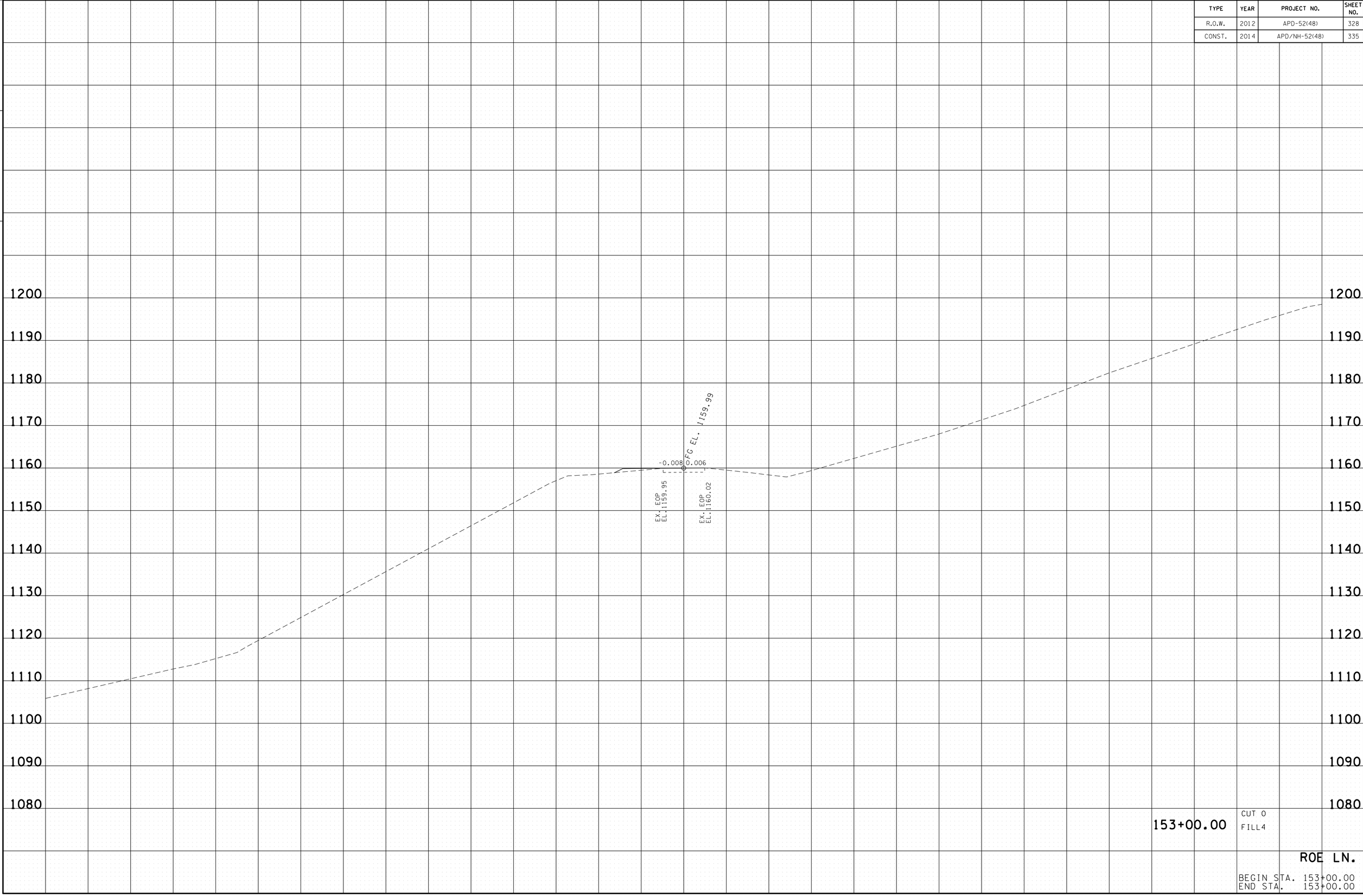
BEGIN STA. 152+50.00
END STA. 152+50.00

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVROEXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	328
CONST.	2014	APD/NH-52(48)	335

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



153+00.00

CUT 0
FILL4

ROE LN.

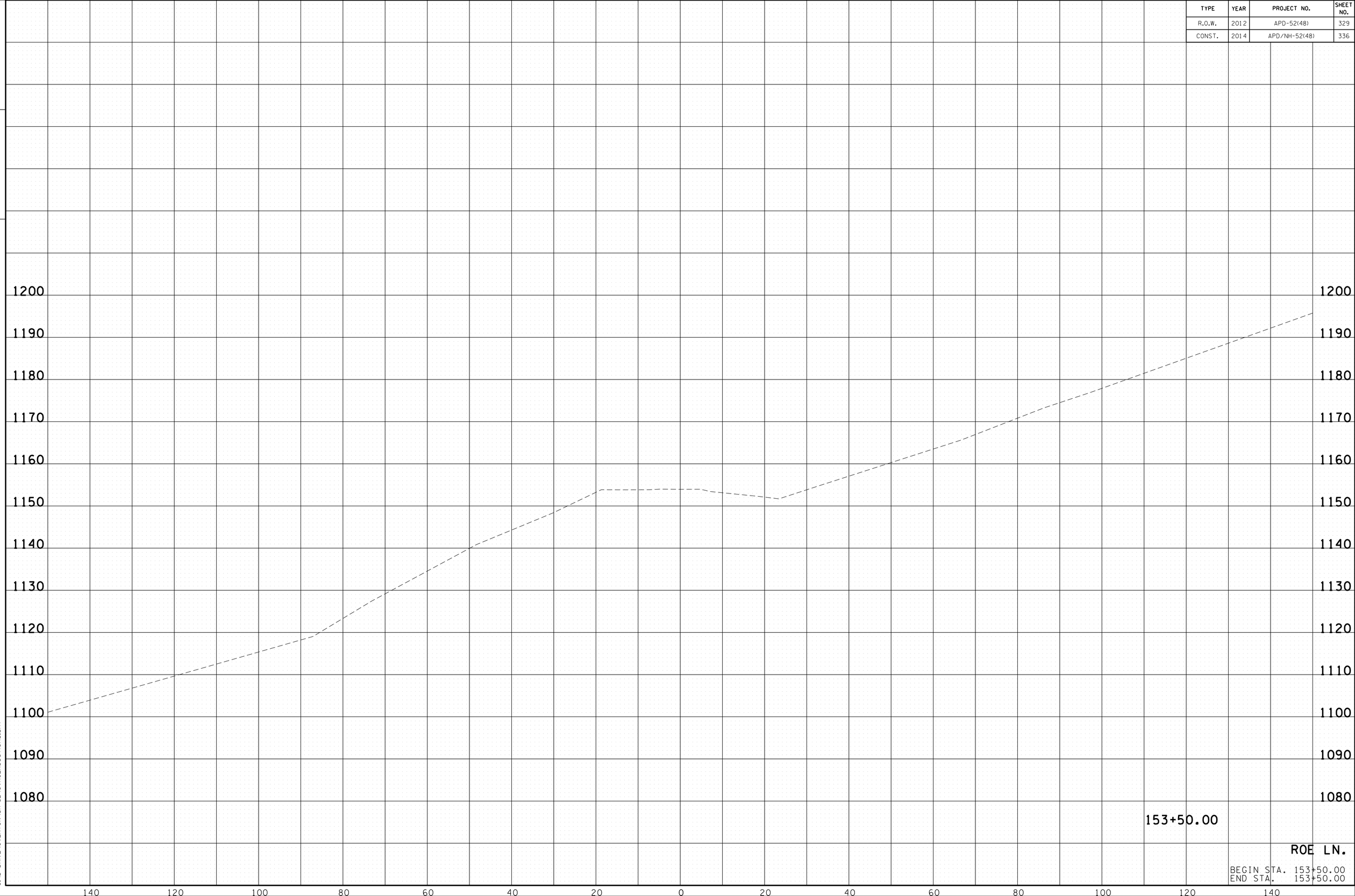
BEGIN STA. 153+00.00
END STA. 153+00.00

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVROEXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	329
CONST.	2014	APD/NH-52(48)	336

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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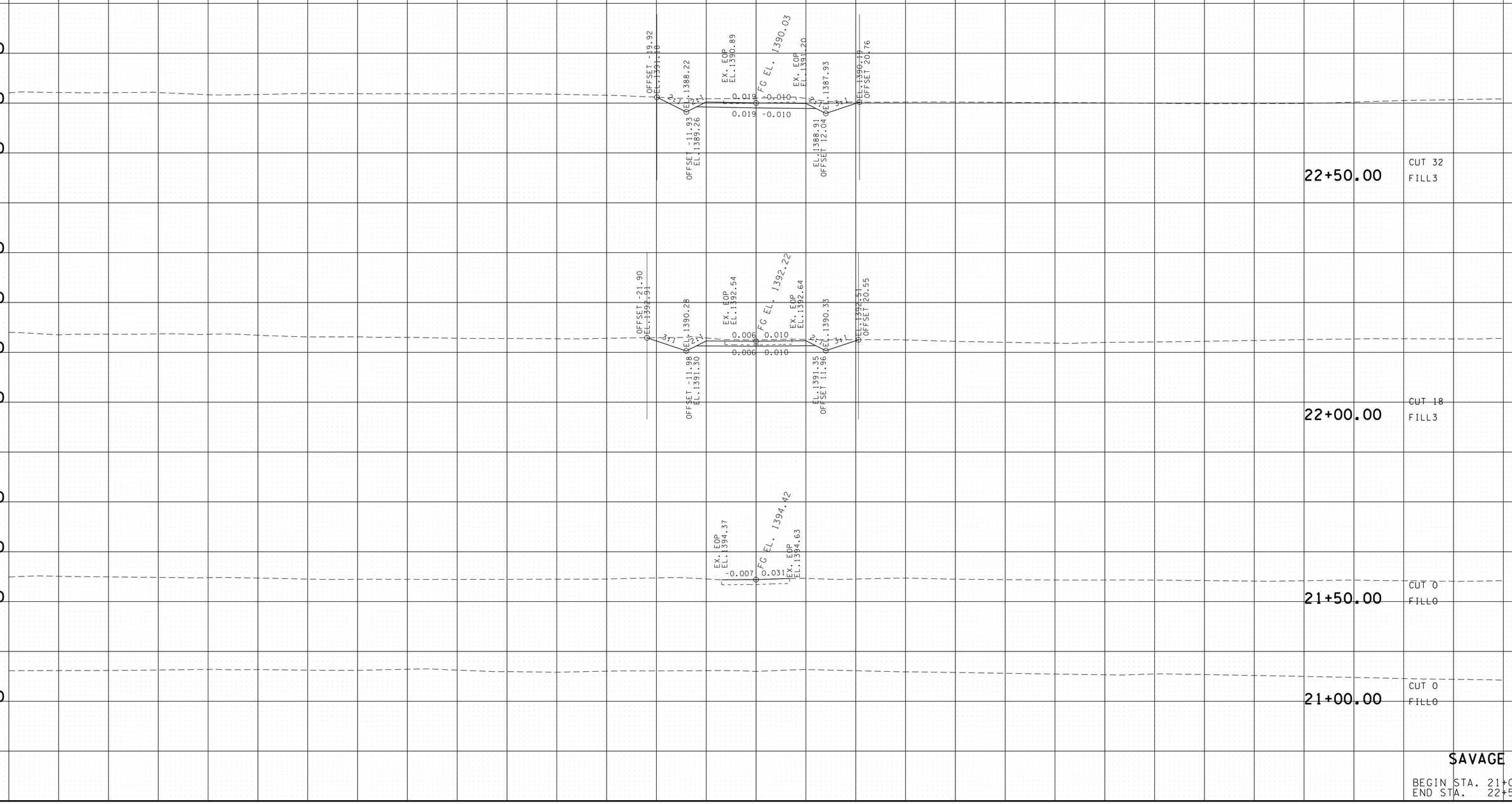
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	330
CONST.	2014	APD/NH-52(48)	337

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



SAVAGE LN.

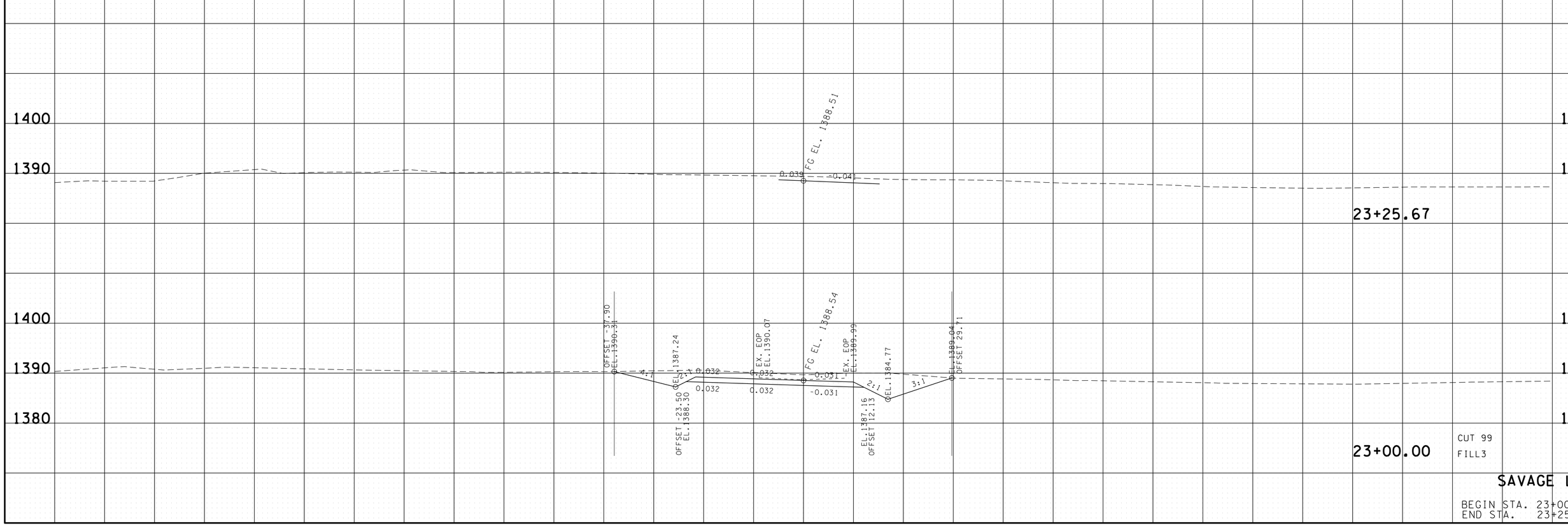
BEGIN STA. 21+00.00
END STA. 22+50.00

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVSAVAGEXSections.sht

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	331
CONST.	2014	APD/NH-52(48)	338



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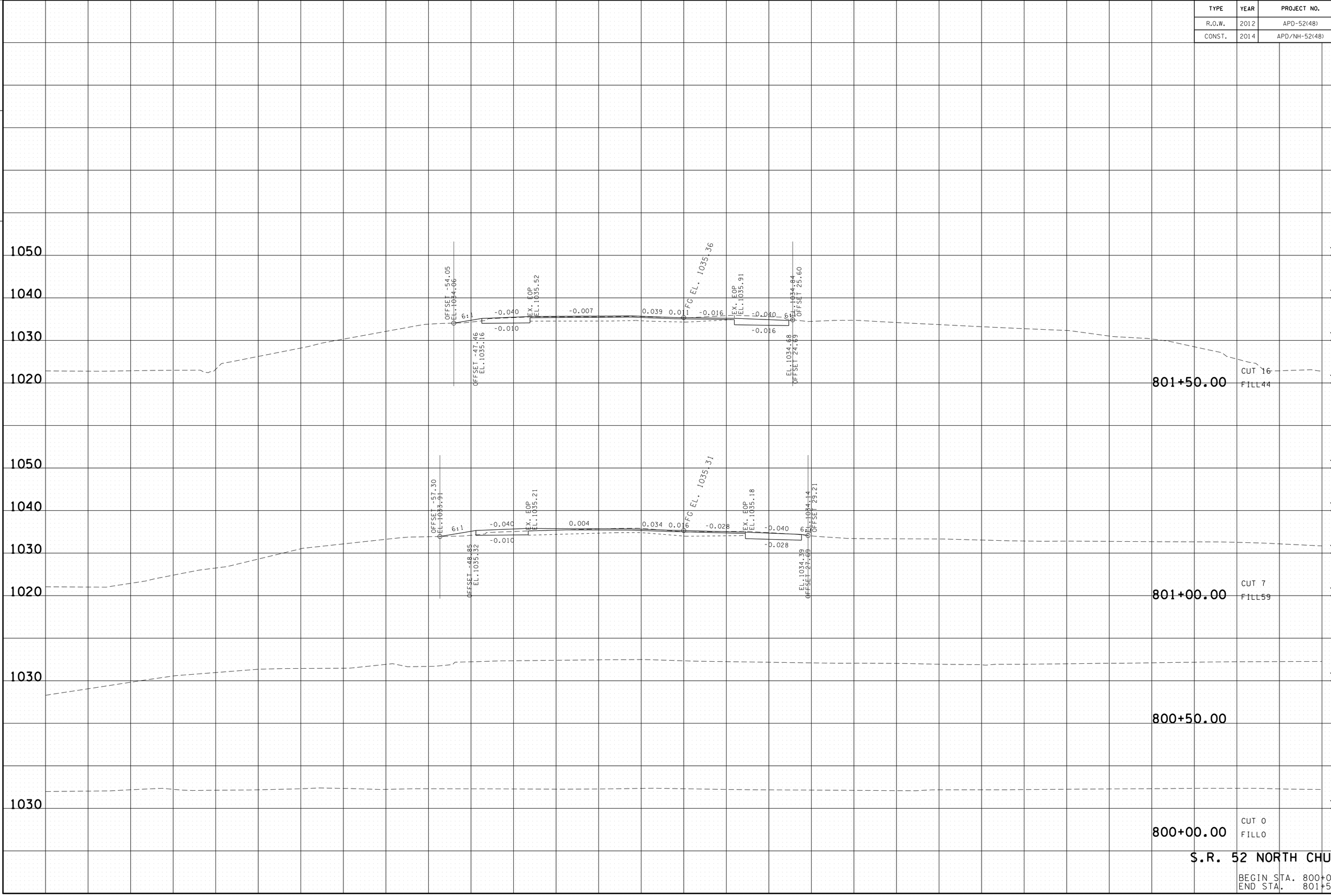
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	336
CONST.	2014	APD/NH-52(48)	339

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



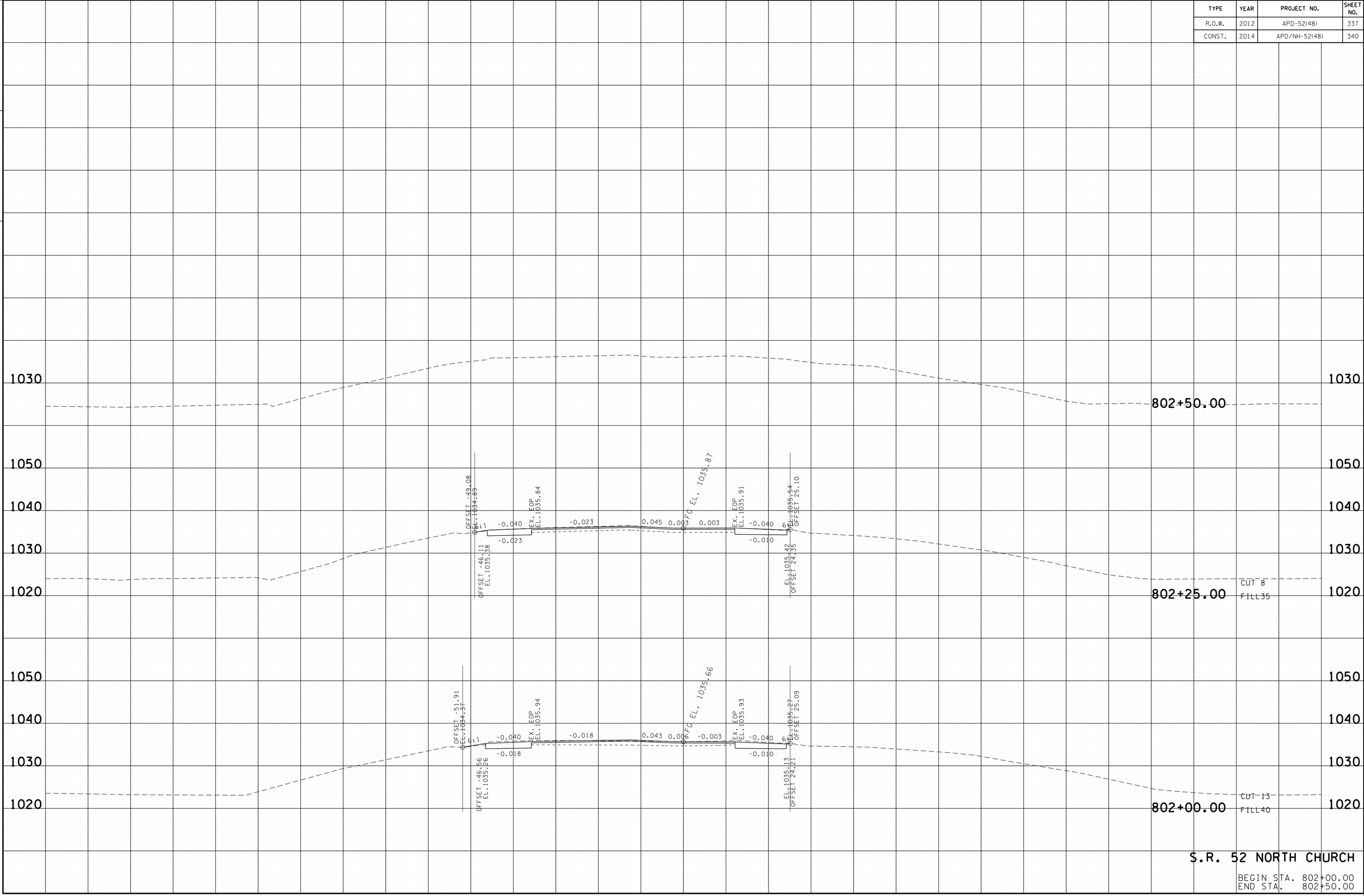
S.R. 52 NORTH CHURCH

BEGIN STA. 800+00.00
END STA. 801+50.00

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVSR52NChurchXSectionSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	337
CONST.	2014	APD/NH-52(48)	340

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



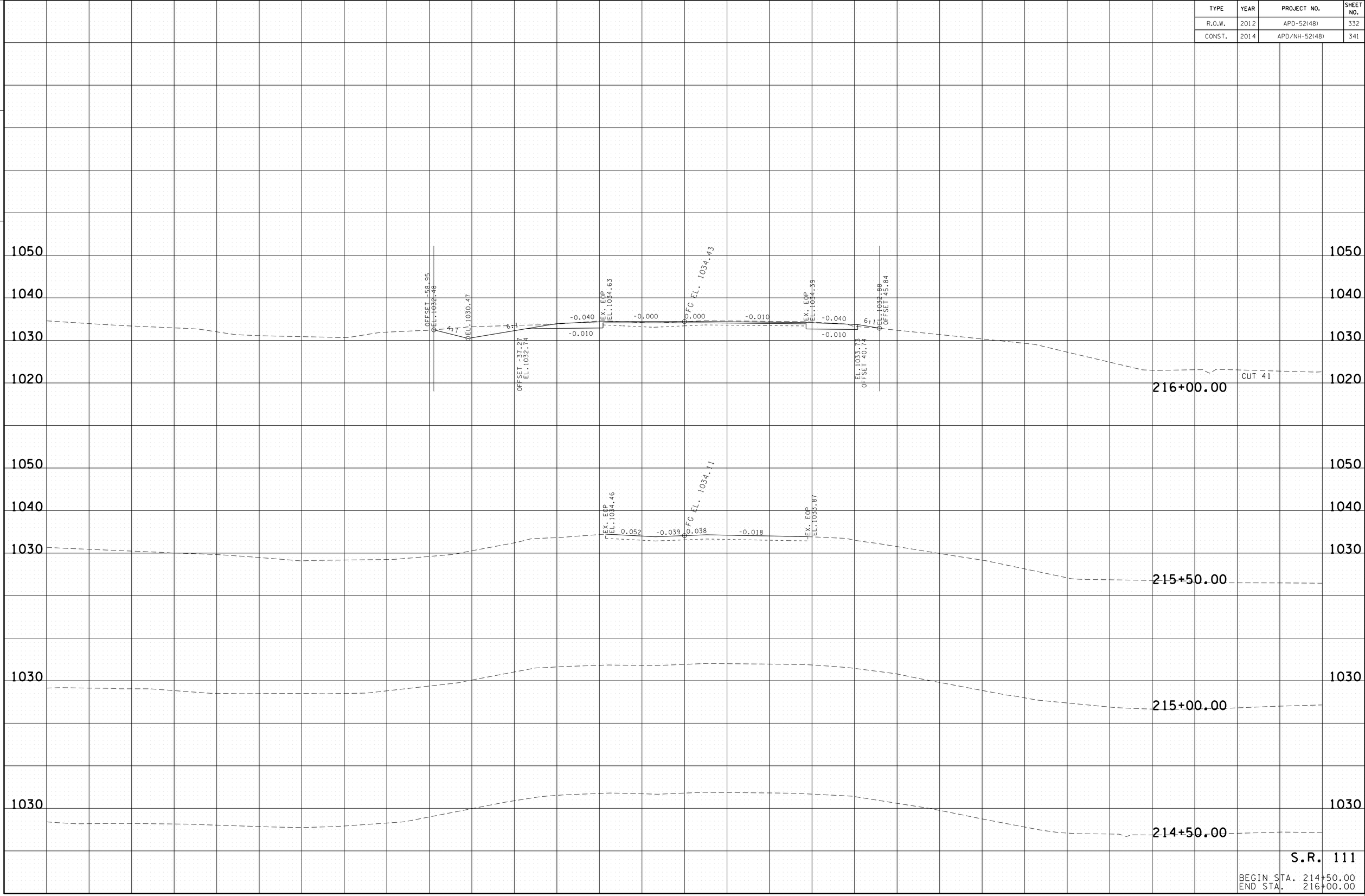
S.R. 52 NORTH CHURCH

BEGIN STA. 802+00.00
END STA. 802+50.00

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVSR52NChurchXSectionSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	332
CONST.	2014	APD/NH-52(48)	341

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



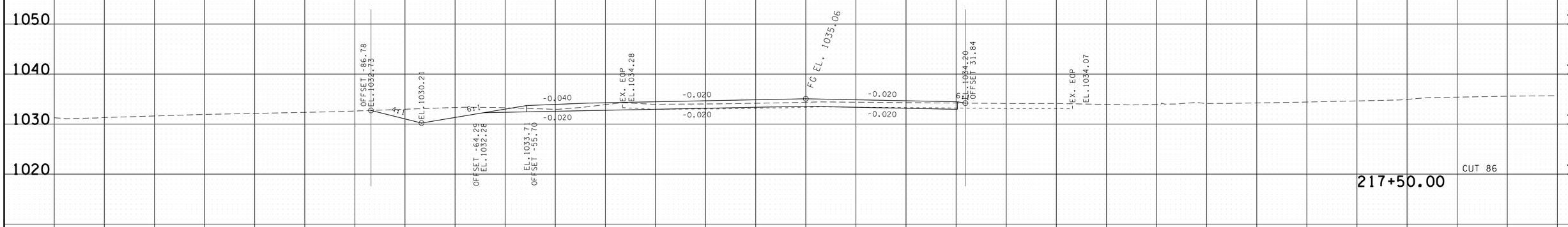
S.R. 111

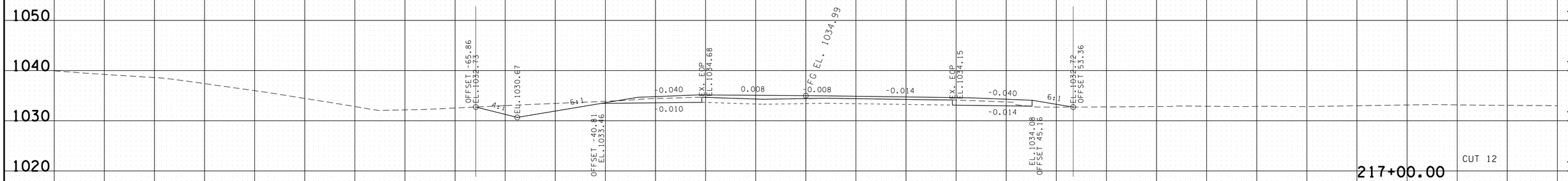
BEGIN STA. 214+50.00
END STA. 216+00.00

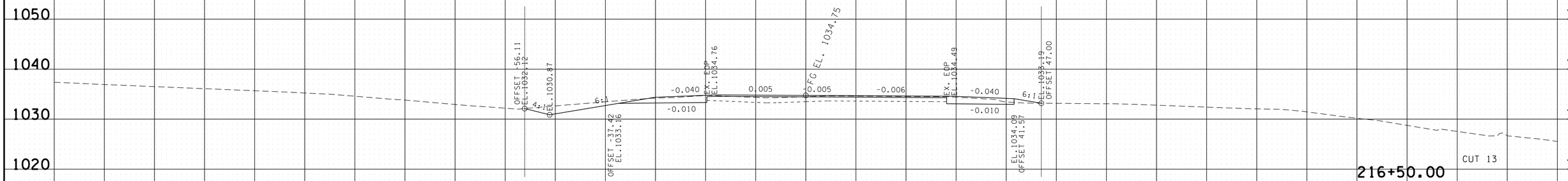
22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVSRIIIXSection.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	333
CONST.	2014	APD/NH-52(48)	342

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







S.R. 111

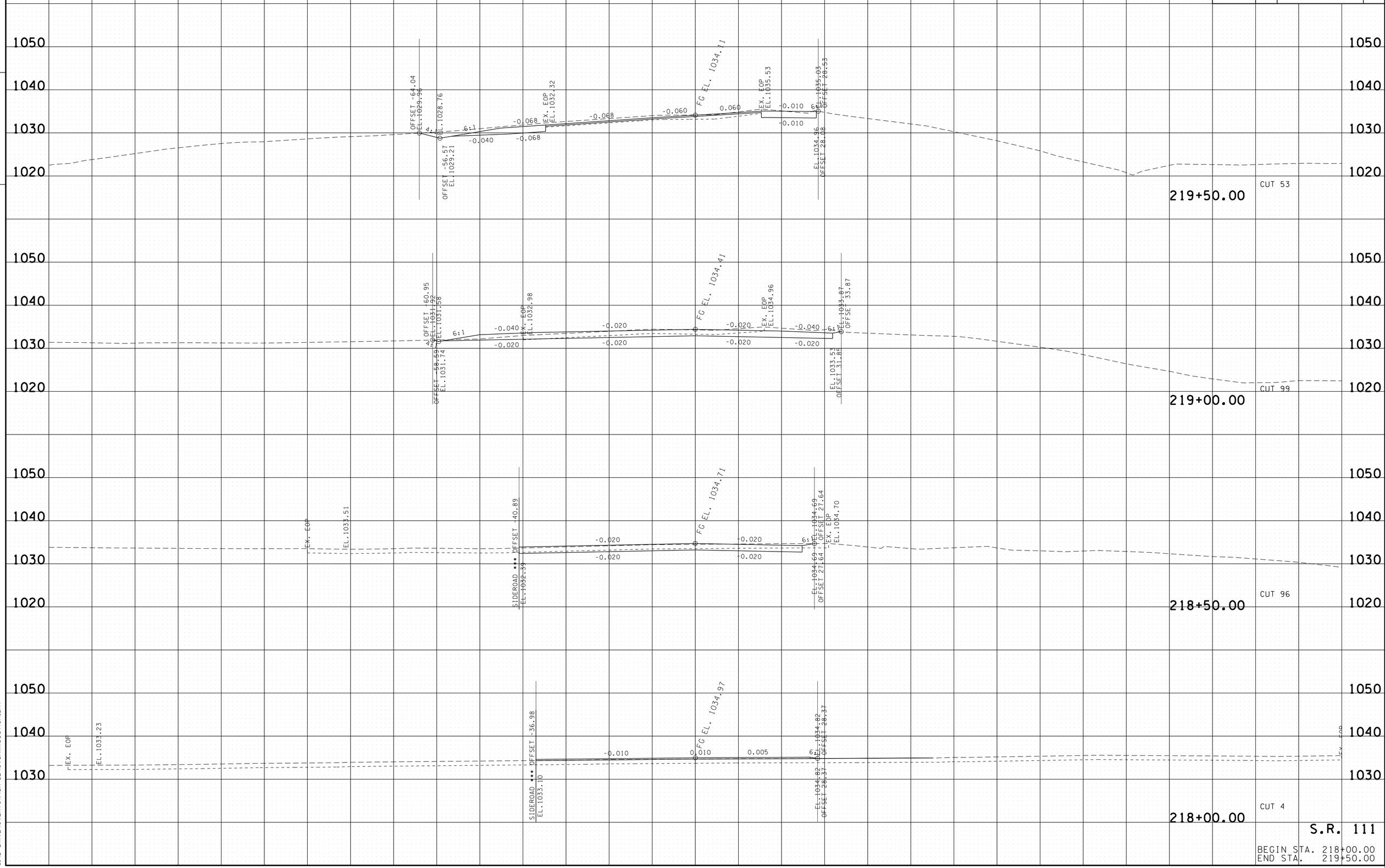
BEGIN STA. 216+50.00
END STA. 217+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVSRIIIXSection.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	334
CONST.	2014	APD/NH-52(48)	343

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



S.R. 111

BEGIN STA. 218+00.00
END STA. 219+50.00

22-JAN-2015 07:56
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	335
CONST.	2014	APD/NH-52(48)	344

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

1030

220+50.00

1030

1030

220+00.00

1030

1050

1040

1030

1020

EX. EOP EL.1031.97

-0.073

-0.016

0.022

0.144

FG EL. 1033.96

EX. EOP EL.1035.63

CUT 0

219+75.00

1050

1040

1030

1020

S.R. 111

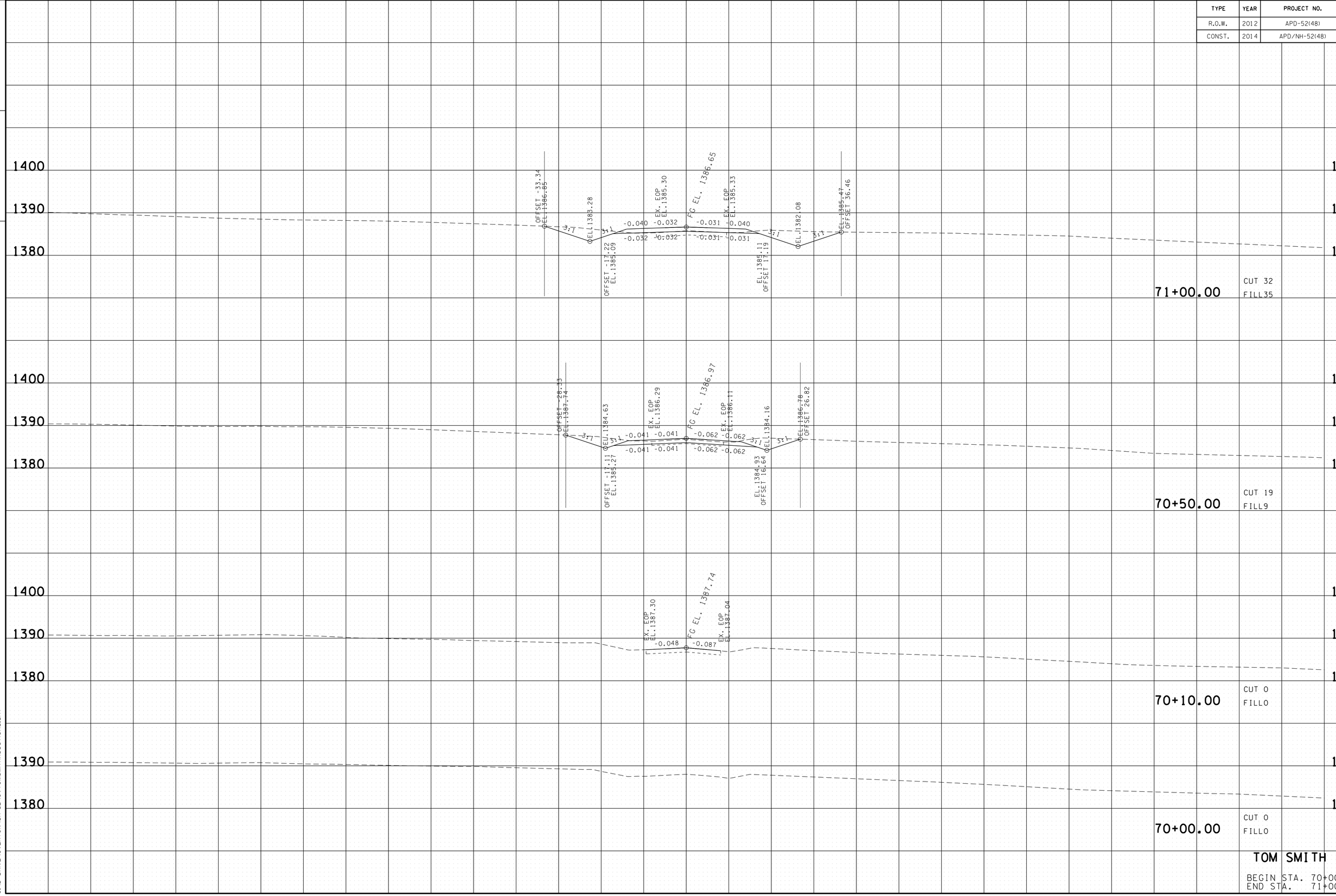
BEGIN STA. 219+75.00
END STA. 220+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVSRIIIXSection.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	338
CONST.	2014	APD/NH-52(48)	345

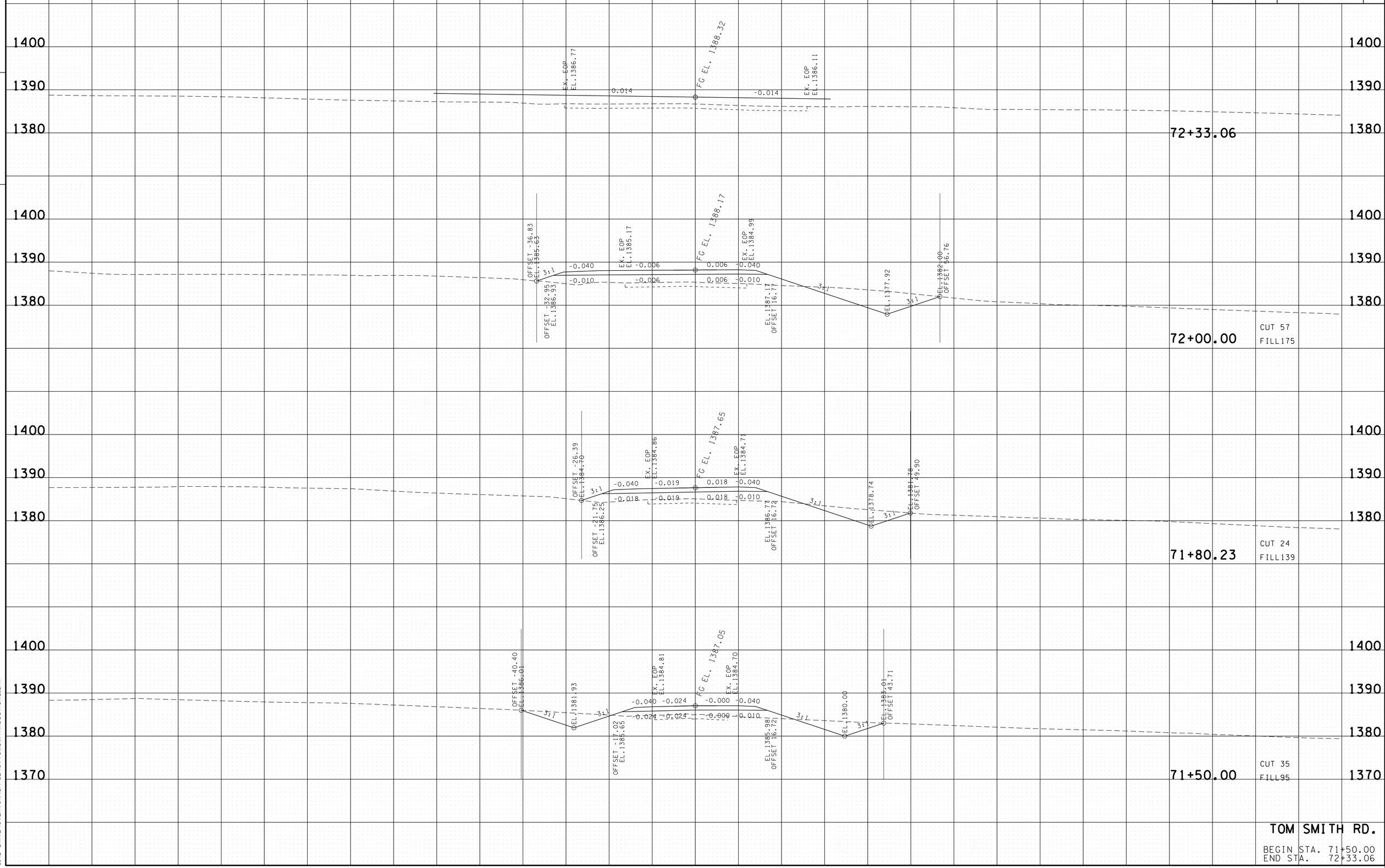
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVTOMSMITHXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	339
CONST.	2014	APD/NH-52(48)	346

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



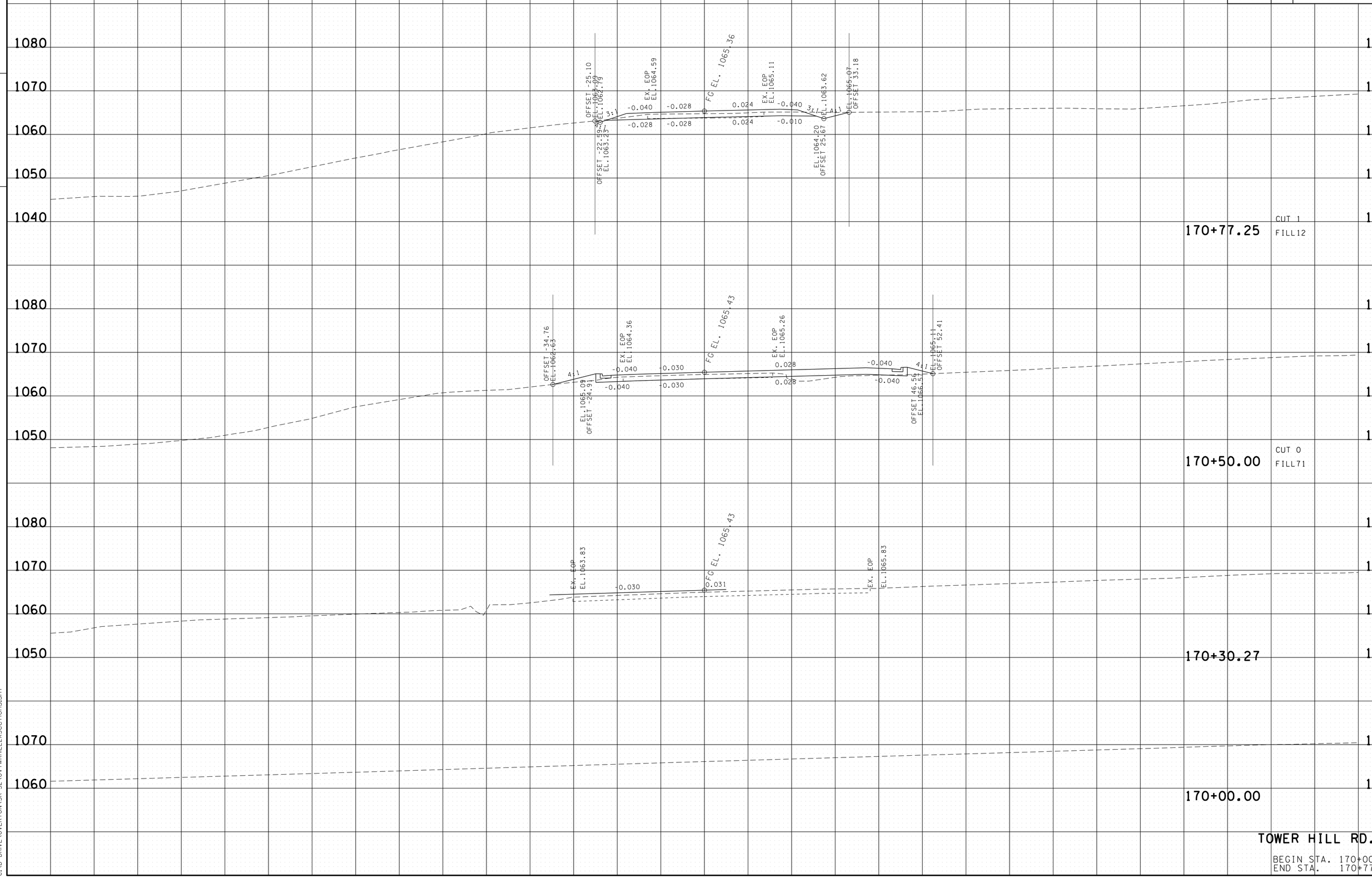
TOM SMITH RD.

BEGIN STA. 71+50.00
END STA. 72+33.06

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVTOMSMITHXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	340
CONST.	2014	APD/NH-52(48)	347

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



TOWER HILL RD. 2

BEGIN STA. 170+00.00
END STA. 170+77.25

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVTWRHILL2XSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	341
CONST.	2014	APD/NH-52(48)	348

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

1070
1060
1050
1040
1030
1080
1070
1060
1050
1040

171+50.00

EX. EOP
EL.1063.26

-0.026

FG EL. 1063.53

0.018

EX. EOP
EL.1063.64

171+20.00

CUT 0
FILL0

1080
1070
1060
1050
1040

OFFSET -23.33
EL.1062.09

OFFSET -21.78
EL.1062.61

3:1

EX. EOP
EL.1064.35

-0.040 -0.027 -0.027 -0.027

FG EL. 1064.70

0.021 0.021

EX. EOP
EL.1064.83

-0.040 -0.010

3:1

EL.1063.41
OFFSET 22.37

EL.1062.83

3:1

EL.1064.10
OFFSET 29.16

171+00.00

CUT 5
FILL10

TOWER HILL RD. 2

BEGIN STA. 171+00.00
END STA. 171+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:56
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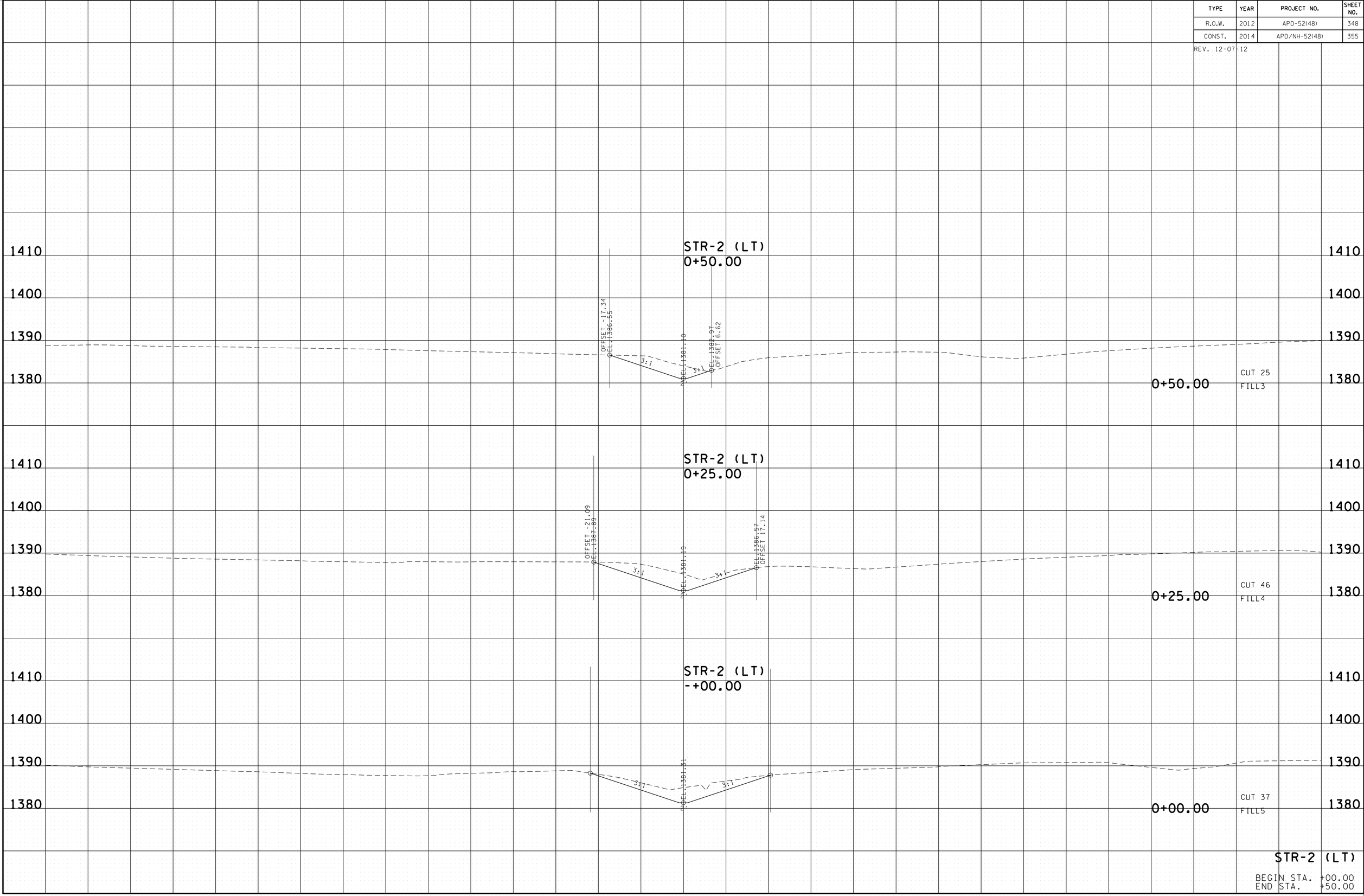
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	348
CONST.	2014	APD/NH-52(48)	355

REV. 12-07-12



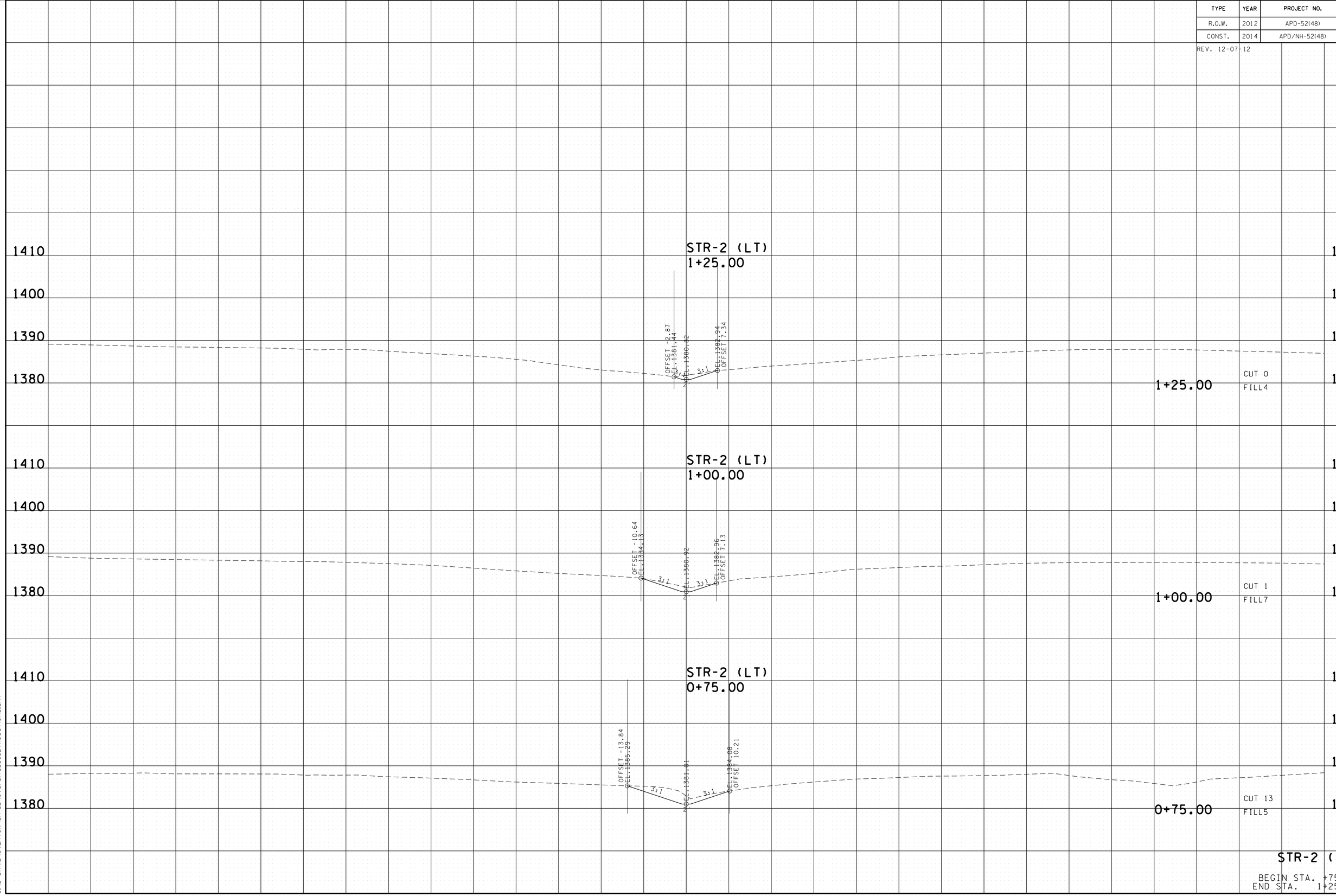
STR-2 (LT)

BEGIN STA. +00.00
END STA. +50.00

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVSPDIT52395LTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	349
CONST.	2014	APD/NH-52(48)	356

REV. 12-07-12



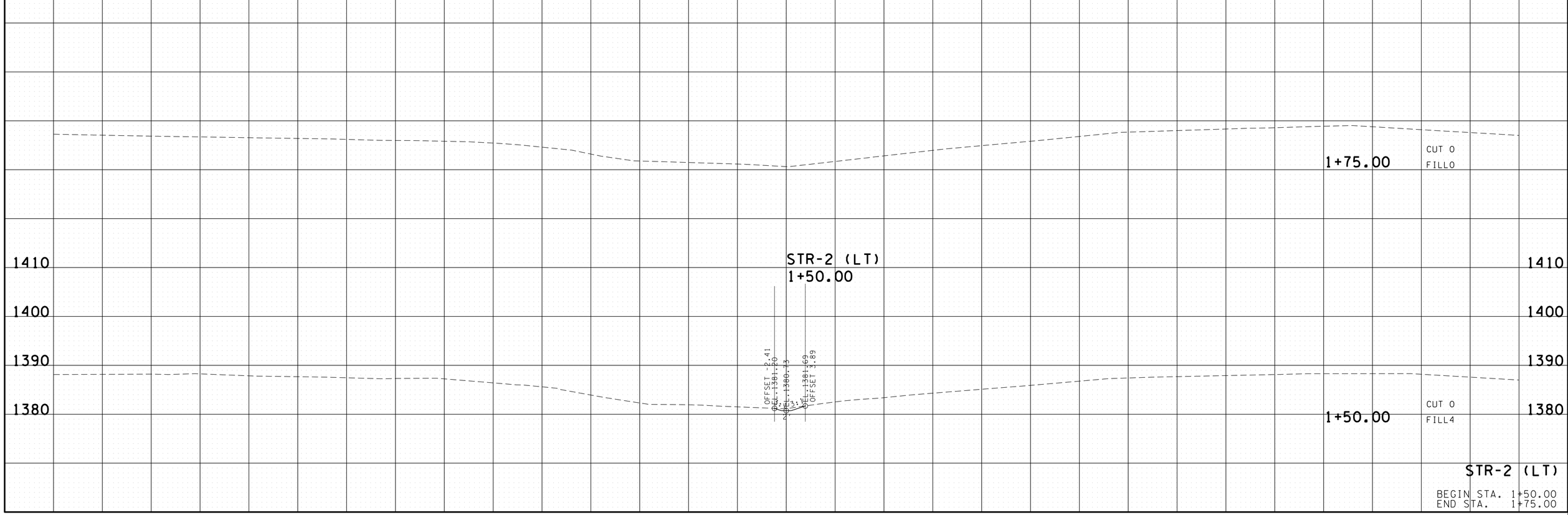
STR-2 (LT)

BEGIN STA. +75.00
END STA. 1+25.00

22-JAN-2015 07:56
C:\D DRIVE_OVERTON\SR-52\OVSPDIT52395LTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	350
CONST.	2014	APD/NH-52(48)	357

REV. 12-07-12



22-JAN-2015 07:56
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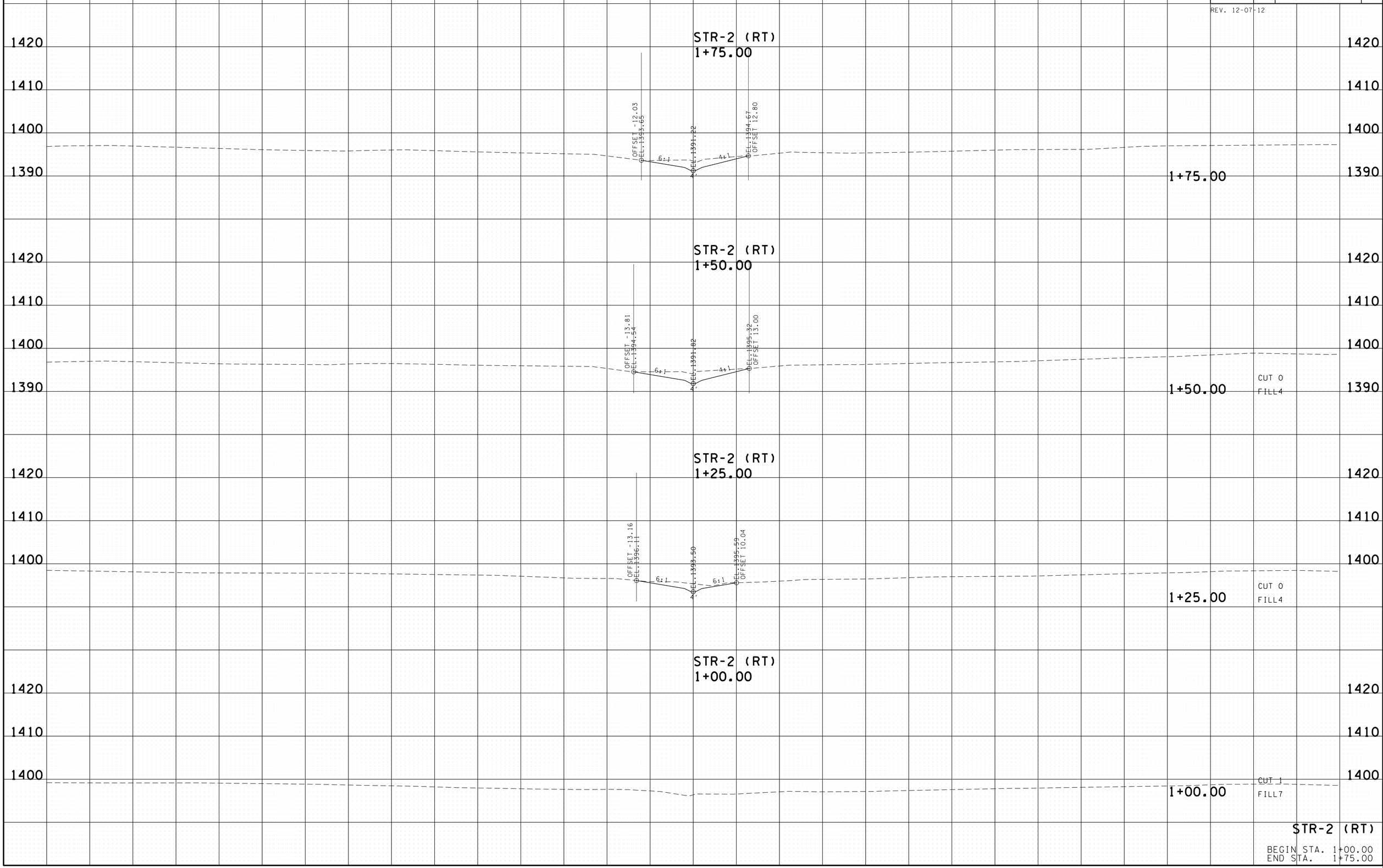
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	351
CONST.	2014	APD/NH-52(48)	358

REV. 12-07-12



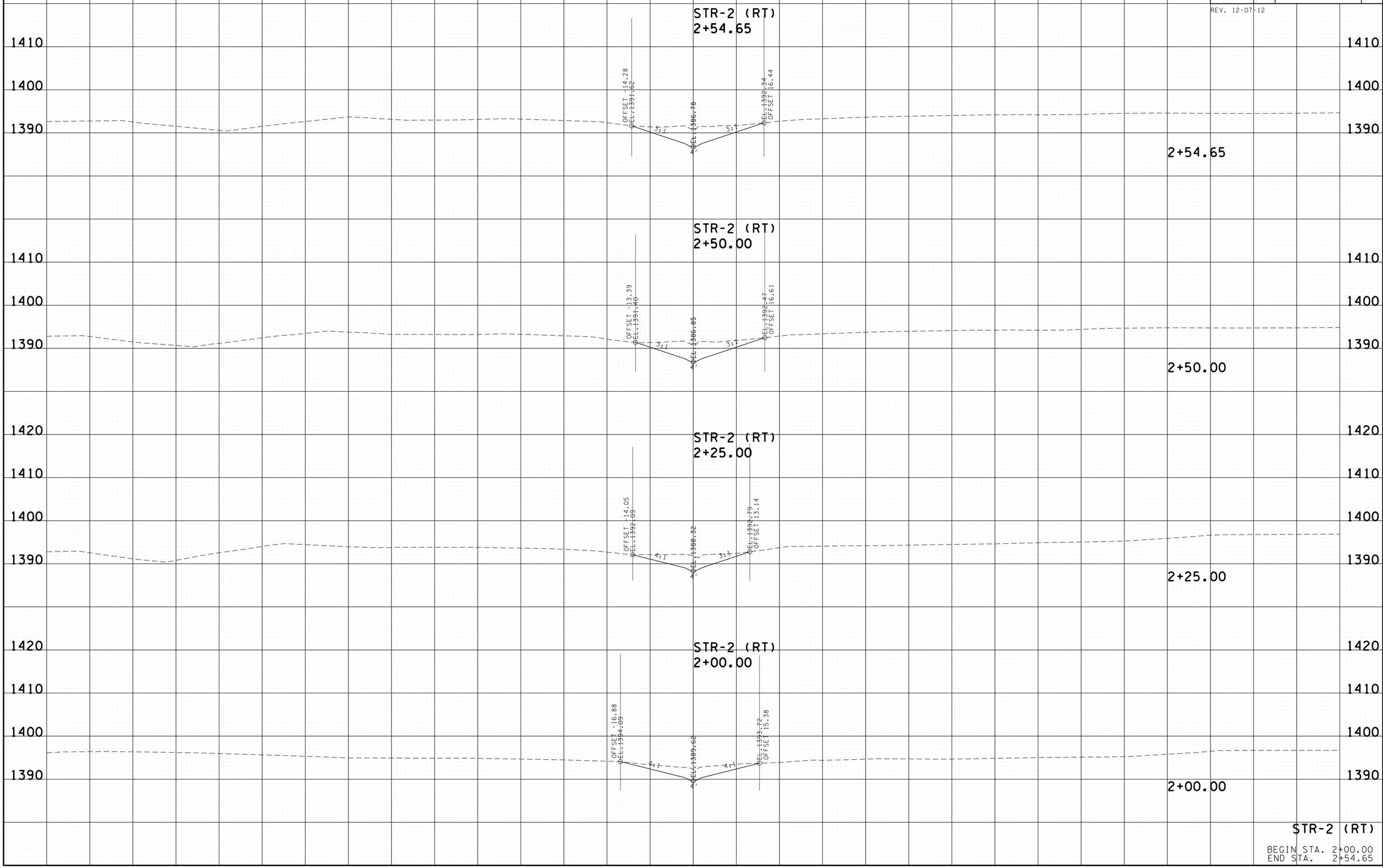
STR-2 (RT)

BEGIN STA. 1+00.00
END STA. 1+75.00

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVSP0IT52395RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	352
CONST.	2014	APD/NH-52(48)	359

REV. 12-07-12



STR-2 (RT)

BEGIN STA. 2+00.00
END STA. 2+54.65

22-JAN-2015 07:56
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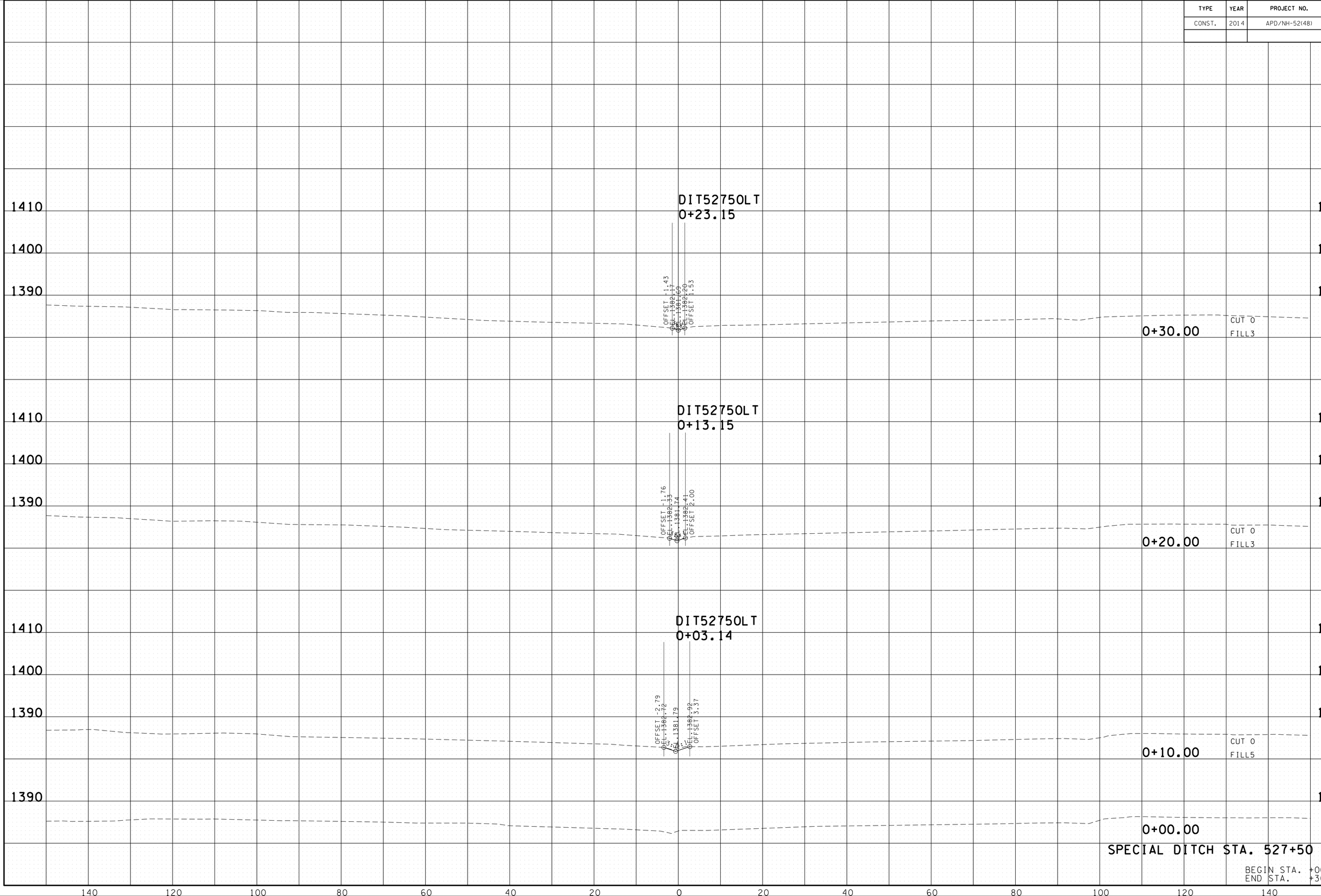
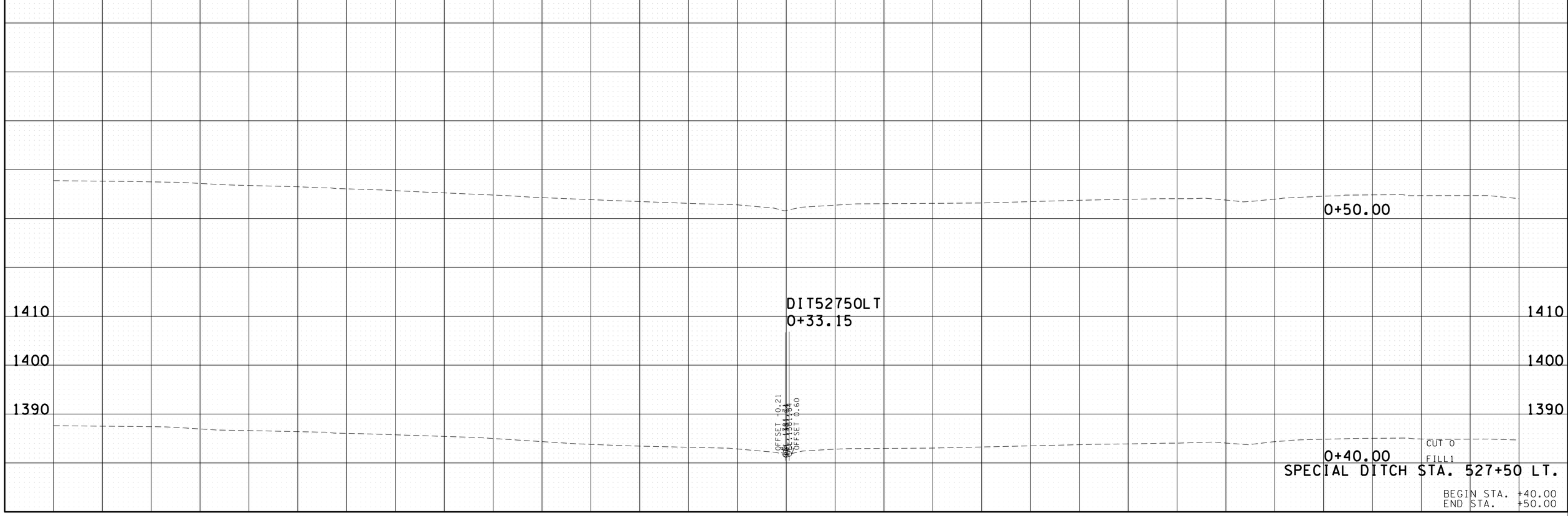
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	360



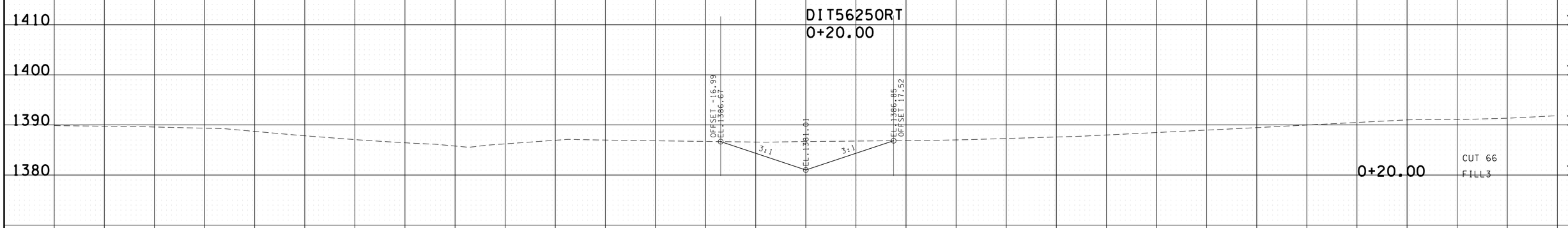
22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVSPDIT52750LTXsections.sht

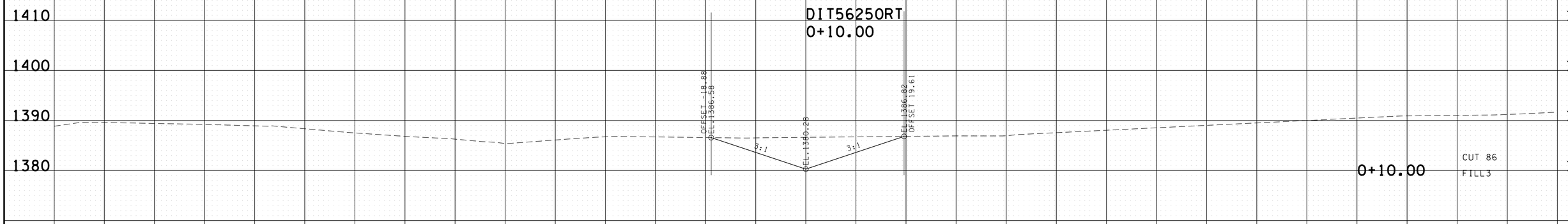
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	361

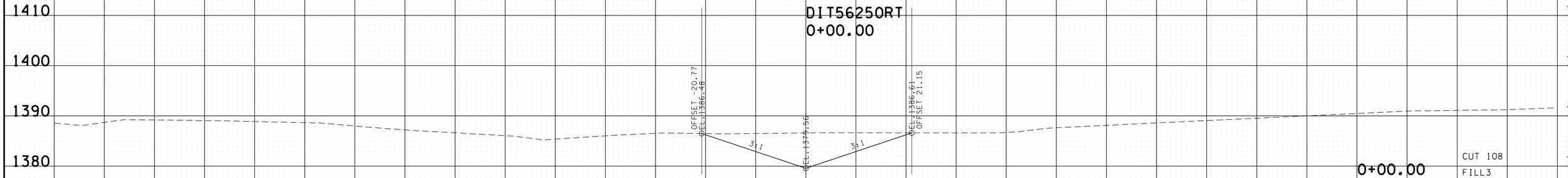


22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVSPDIT52750LTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	362







SPECIAL DITCH STA. 562+50 RT.

BEGIN STA. +00.00
END STA. +20.00

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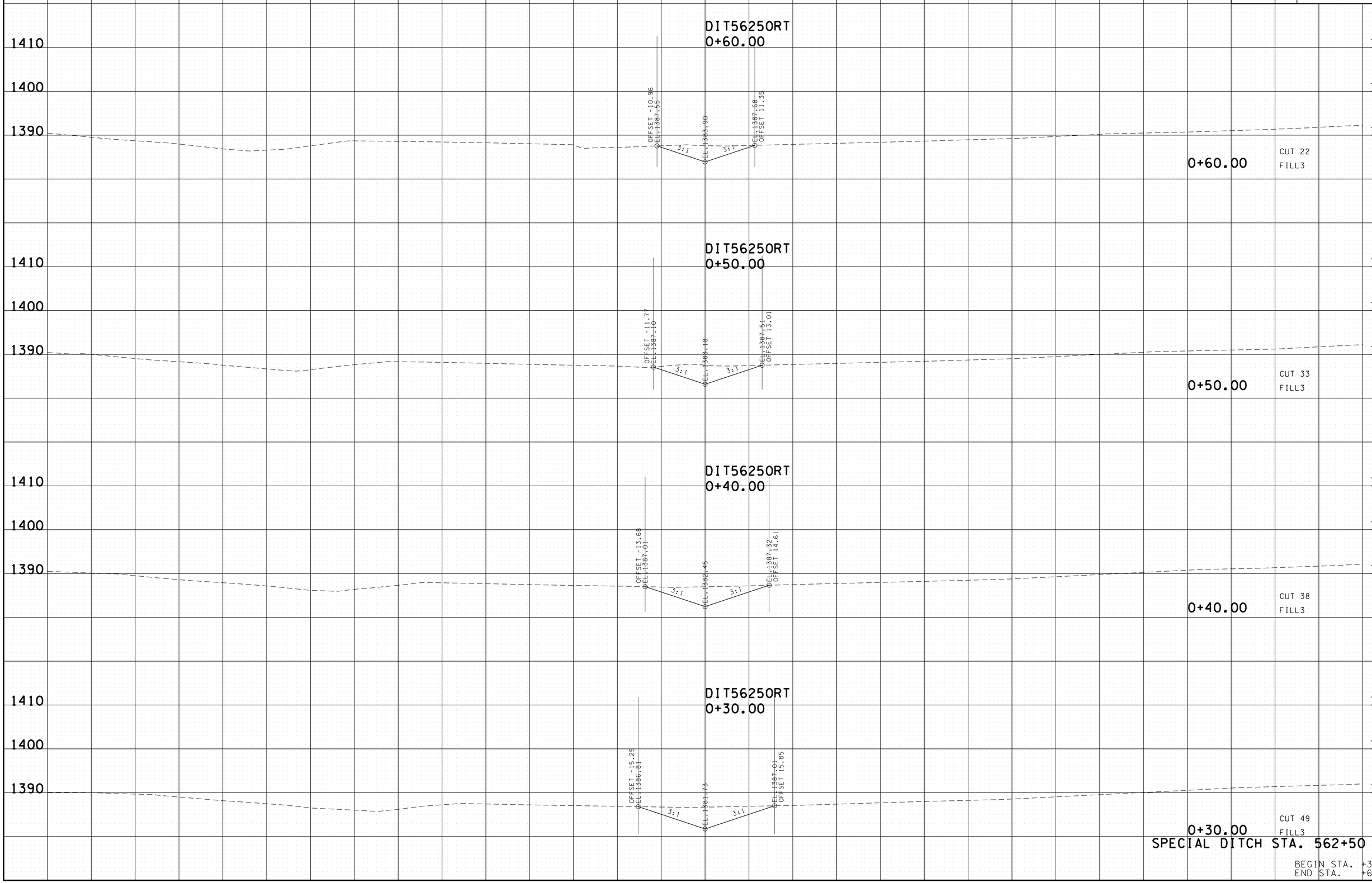
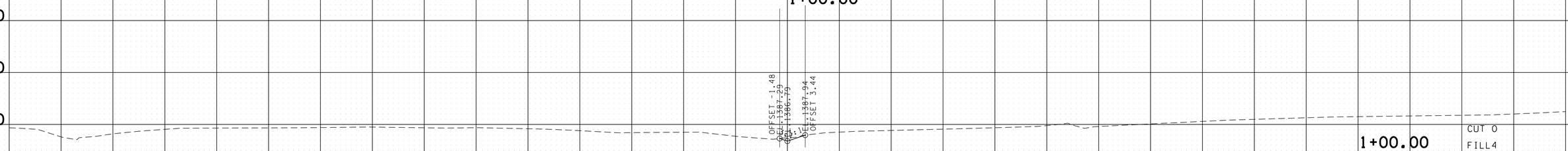
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	363



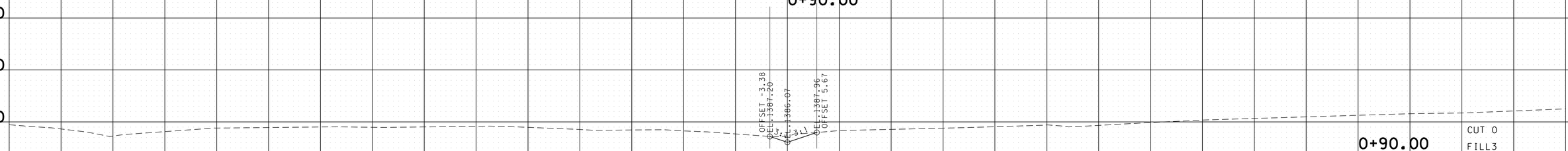
22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVSP\DIT56250RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	364

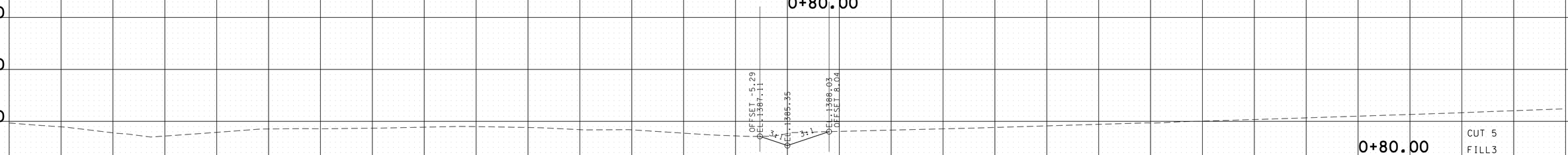
DIT56250RT
1+00.00



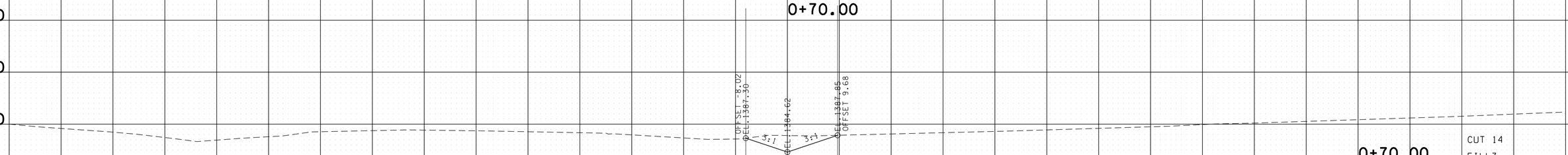
DIT56250RT
0+90.00



DIT56250RT
0+80.00



DIT56250RT
0+70.00



SPECIAL DITCH STA. 562+50 RT.

BEGIN STA. +70.00
END STA. 1+00.00

22-JAN-2015 07:56
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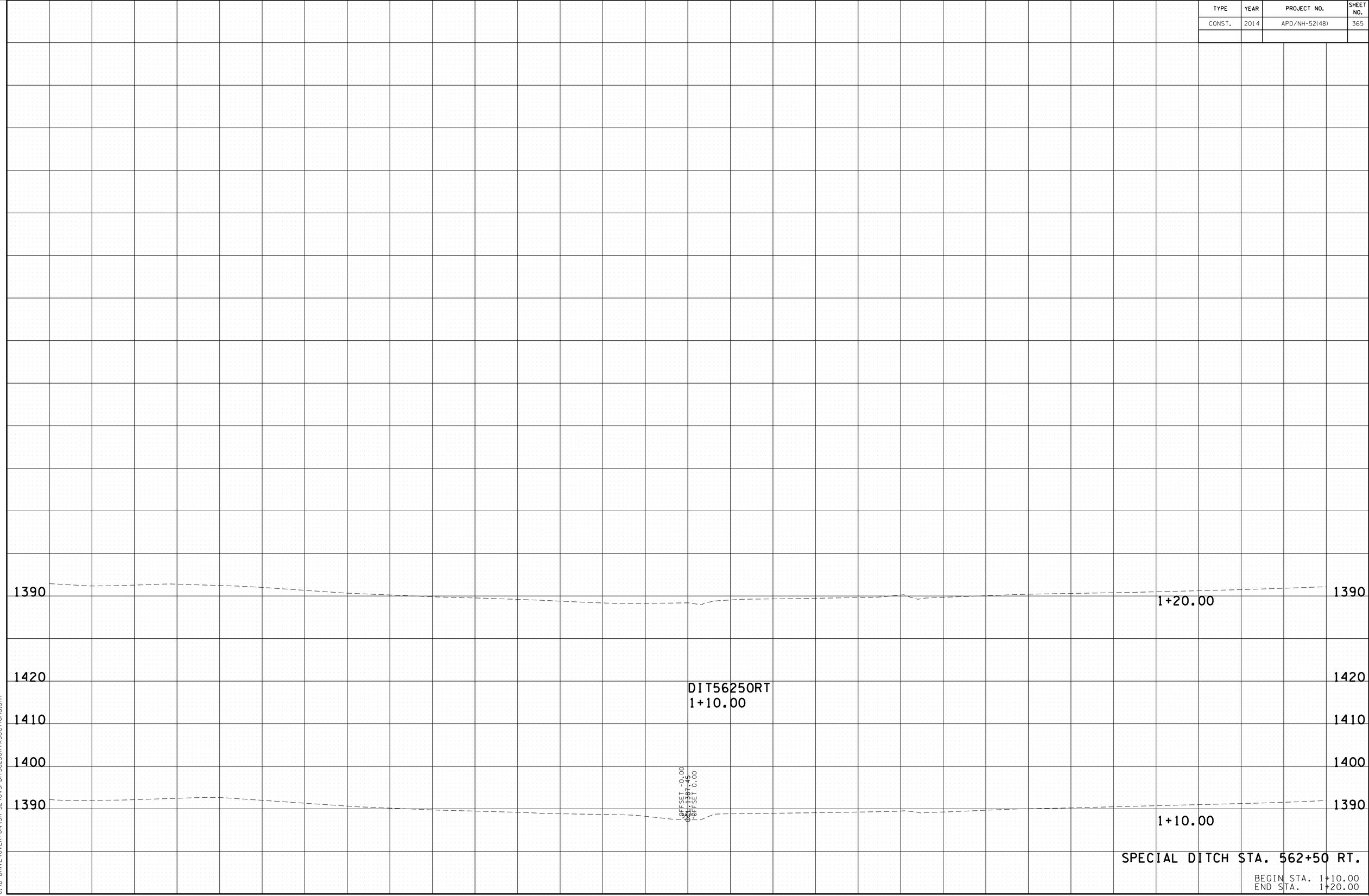
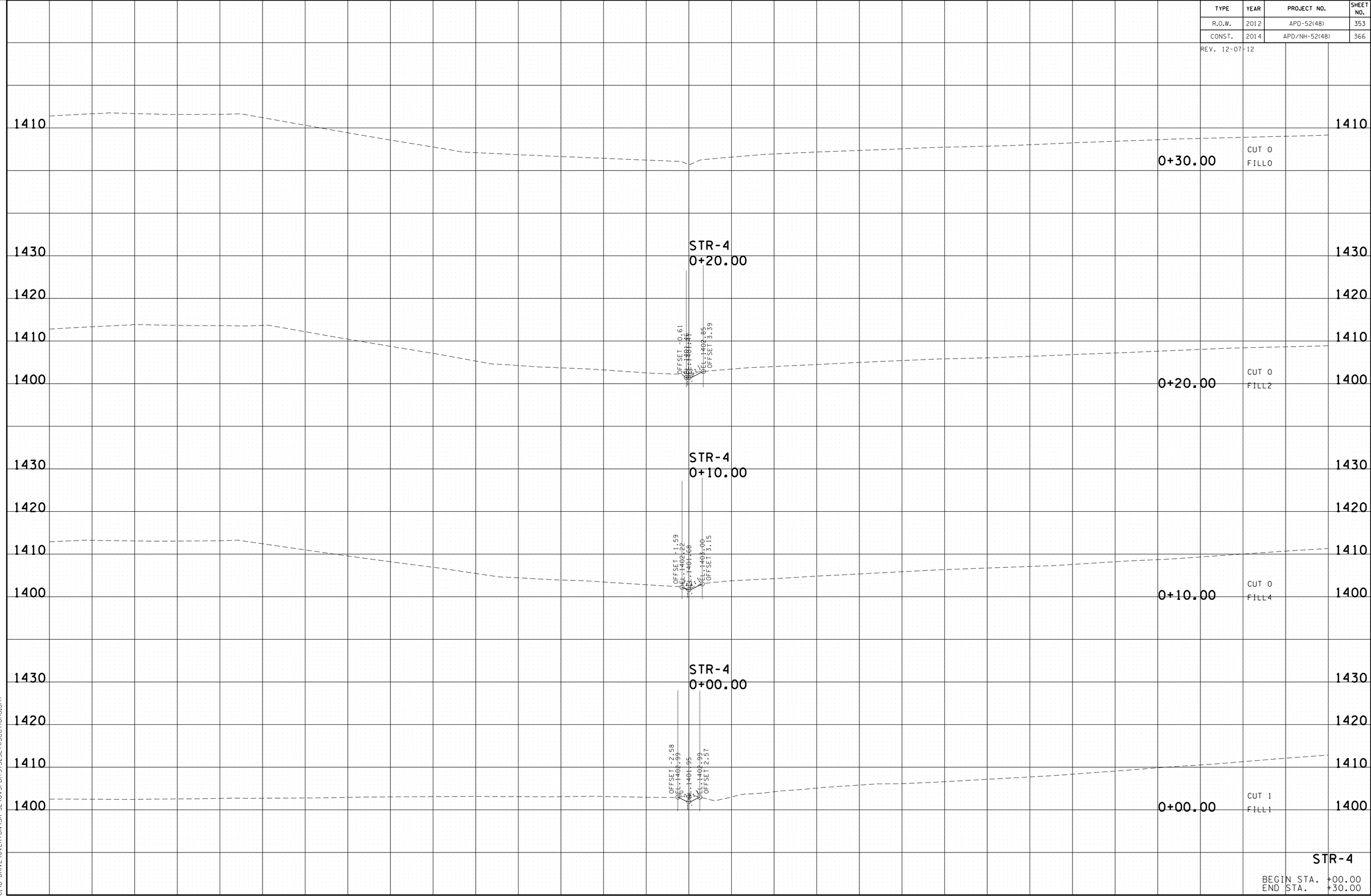
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	365



22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVSPDIT56250RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	353
CONST.	2014	APD/NH-52(48)	366

REV. 12-07-12



STR-4

BEGIN STA. +00.00
END STA. +30.00

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVSPDIT57325LTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	367

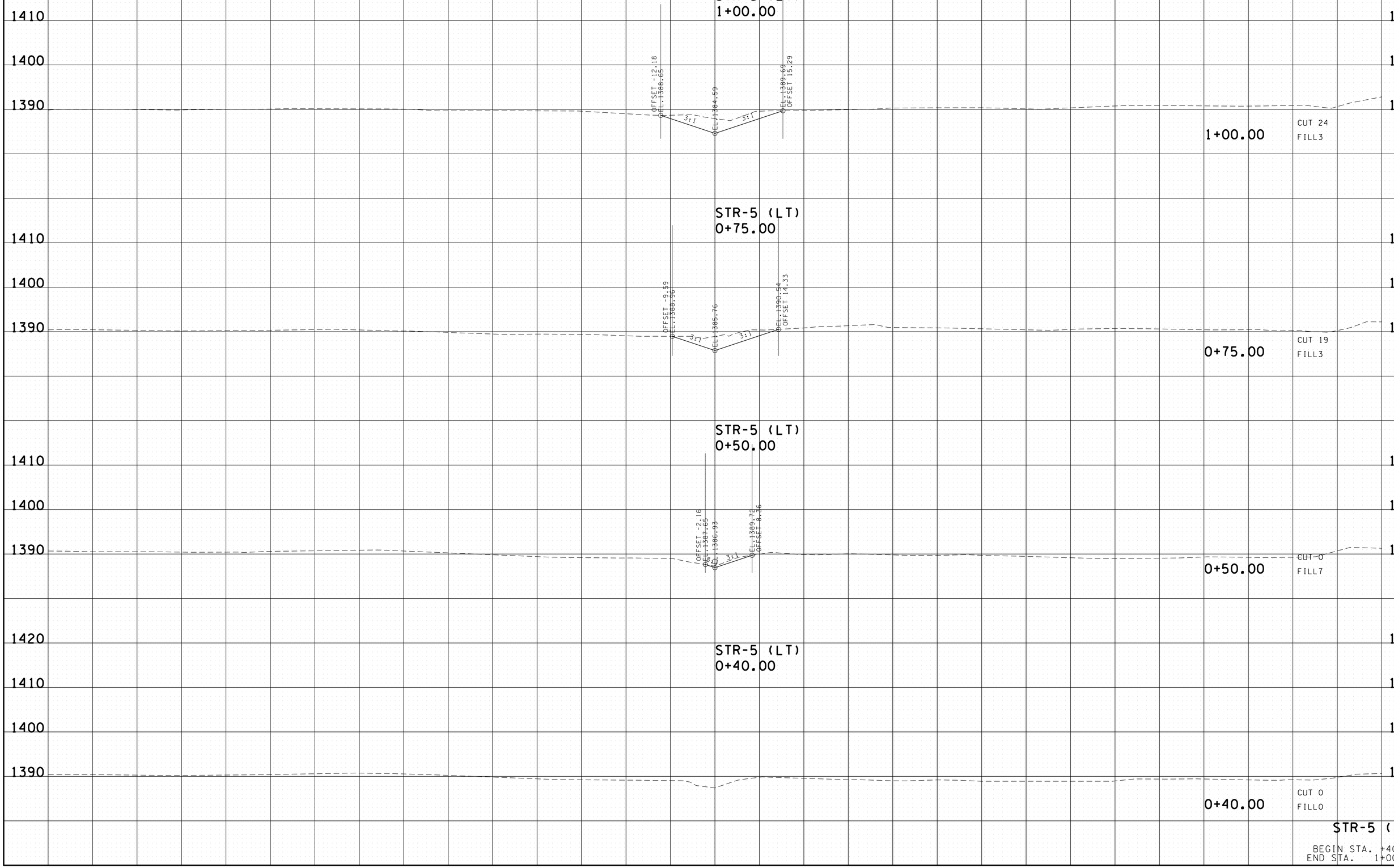
SPECIAL DITCH STA. 589+50 RT.

BEGIN STA. +00.00
END STA. +30.00

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVSP\DIT58950RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	354
CONST.	2014	APD/NH-52(48)	368

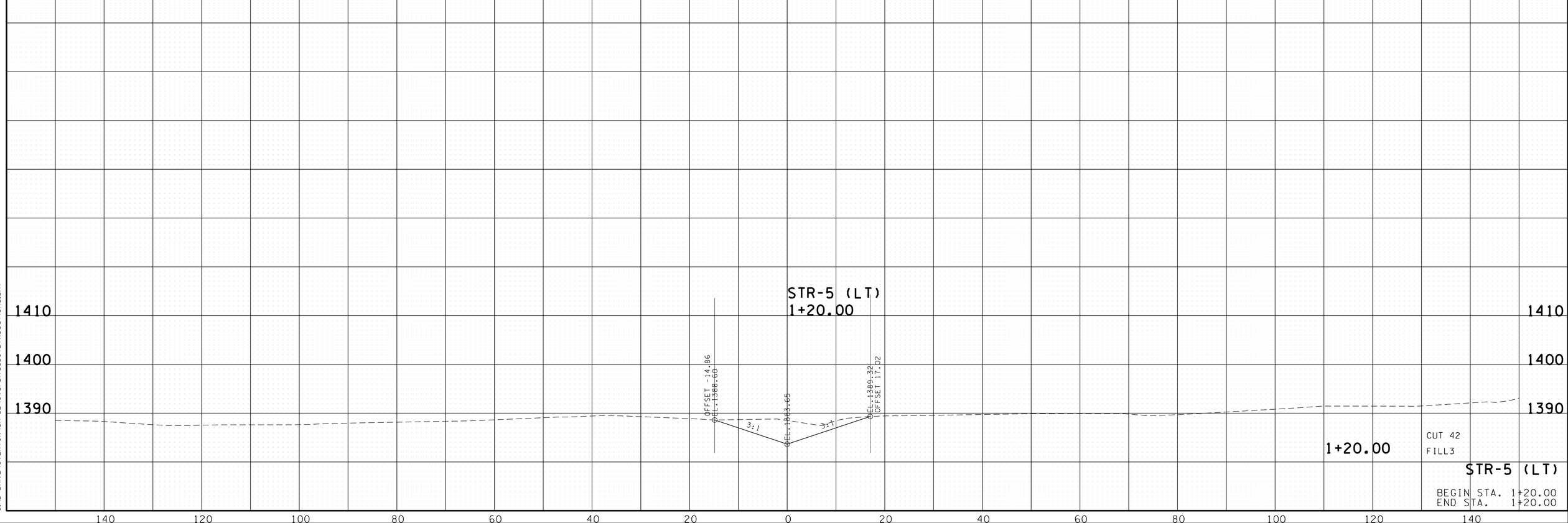
REV. 12-07-12



22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVSP0IT59307LTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	355
CONST.	2014	APD/NH-52(48)	369

REV. 12-07-12



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C:\D_DRIVE\OVERTON\SR-52\OVSP0IT59307LTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	356
CONST.	2014	APD/NH-52(48)	370

REV. 12-07-12

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	APD-52(48)	357
CONST.	2014	APD/NH-52(48)	371

REV. 12-07-12

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	372

DIT62295RT
0+10.00

OFFSET -4.09
EL. 1226.59
OFFSET 6.71
EL. 1227.46
EL. 1225.22
3:1

0+10.00
CUT 2
FILL 3

DIT62295RT
-+00.00

EL. 1225.52

0+00.00
CUT 0
FILL 0

SPECIAL DITCH STA. 622+95 RT.

BEGIN STA. +00.00
END STA. +10.00

1260
1250
1240
1230
1220

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:56
C:\D_DRIVE\OVERTON\SR-52\OVSPDIT62295RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	373

1270
1260
1250
1240
1230
1220
1210

DIT62295RT
0+20.00

OFFSET -4.83
ELEV. 1226.53
3:1
3:1
ELEV. 1224.92
ELEV. 1227.51
OFFSET 7.77

0+20.00
CUT 3
FILL3

SPECIAL DITCH STA. 622+95 RT.

BEGIN STA. +20.00
END STA. +20.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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C:\D_DRIVE\OVERTON\SR-52\OVSPDIT62295RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	374

DIT63932RT
0+15.00

1140
1130
1120

1 OFFSET -4.00
@EL.1114.05
@EL.1114.05
1 OFFSET 4.00

0+15.00

DIT63932RT
0+10.00

1140
1130
1120

1 OFFSET -4.00
@EL.1115.27
@EL.1115.27
1 OFFSET 4.00

0+10.00

DIT63932RT
0+05.00

1140
1130
1120

OFFSET -4.49
@EL.1116.67
@EL.1116.51
EL.1116.67
OFFSET 4.47

0+05.00

CUT 0
FILL 0

DIT63932RT
0+00.00

1150
1140
1130
1120

OFFSET -6.05
@EL.1118.45
@EL.1117.77
EL.1120.23
OFFSET 11.32

0+00.00

CUT 0
FILL 0

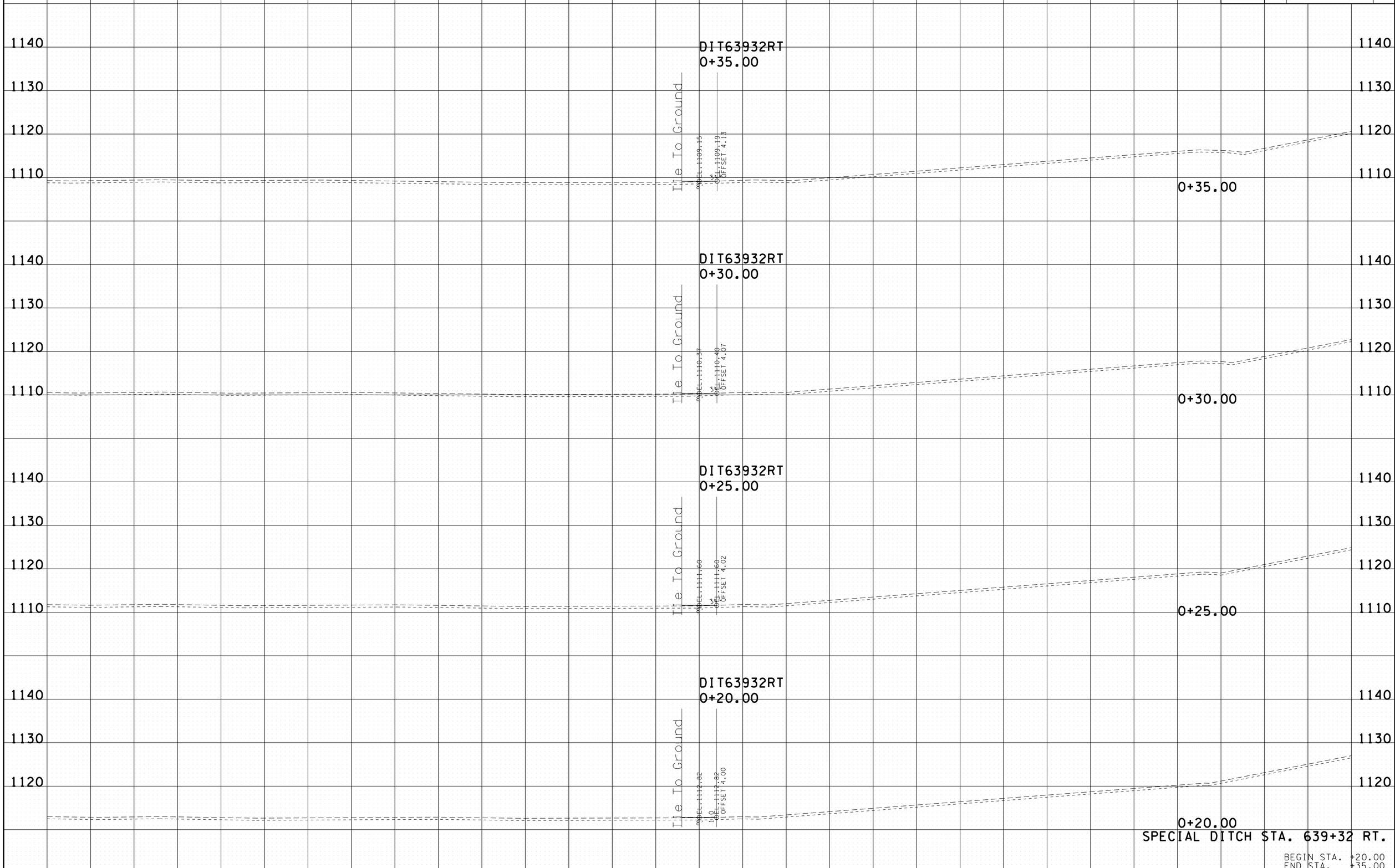
SPECIAL DITCH STA. 639+32 RT.

BEGIN STA. +00.00
END STA. +15.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVSPDIT63932RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	375



22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\OVSPDIT63932RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	376

DIT63932RT
0+50.00

1130
1120
1110
1100

OFFSET -4.05
ELEV 1105.49
@ ELEV 1105.47
Tie To Ground

0+50.00

DIT63932RT
0+45.00

1130
1120
1110

OFFSET -4.02
ELEV 1106.78
@ ELEV 1106.70
Tie To Ground

0+45.00

DIT63932RT
0+40.00

1140
1130
1120
1110

Tie To Ground
@ ELEV 1107.92
@ ELEV 1107.98
OFFSET 4.18

0+40.00

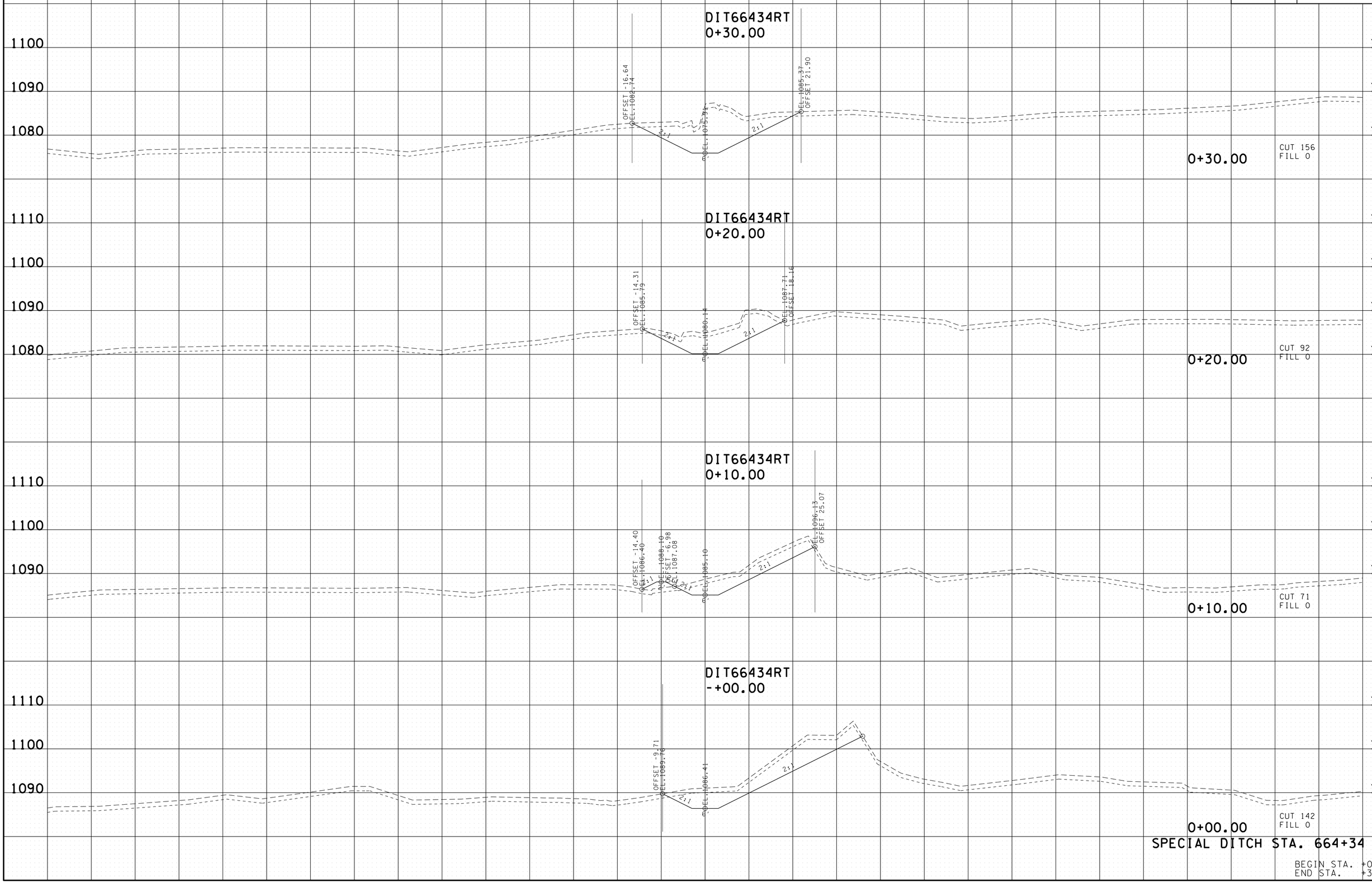
SPECIAL DITCH STA. 639+32 RT.

BEGIN STA. +40.00
END STA. +50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:56
C:\D DRIVE\OVERTON\SR-52\QVSPDIT63932RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	377



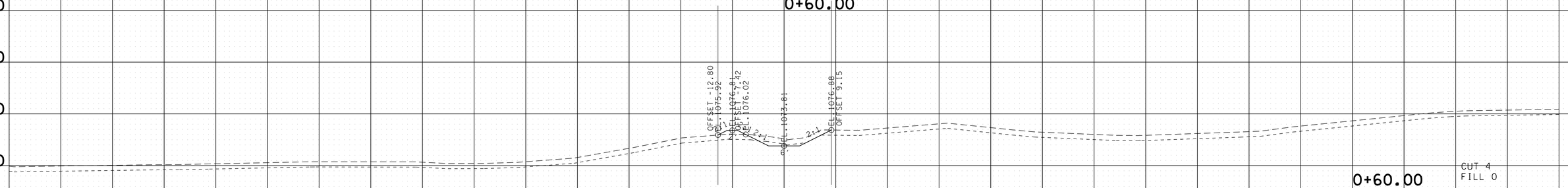
SPECIAL DITCH STA. 664+34 RT.

BEGIN STA. +00.00
END STA. +30.00

22-JAN-2015 07:57
C:\D DRIVE\OVERTON\SR-52\OVSPDIT66434RTXSections.sht

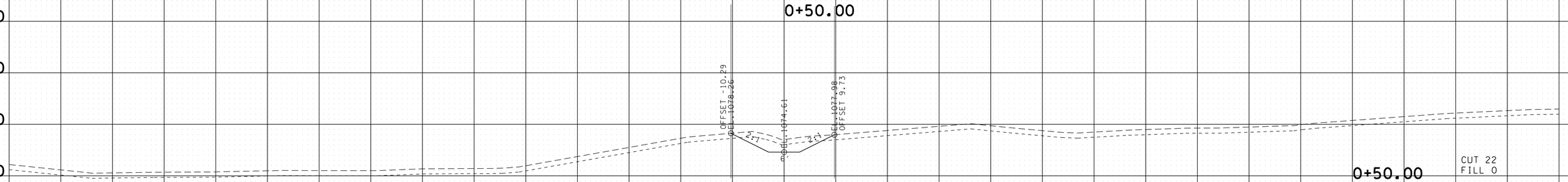
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	378

DIT66434RT
0+60.00



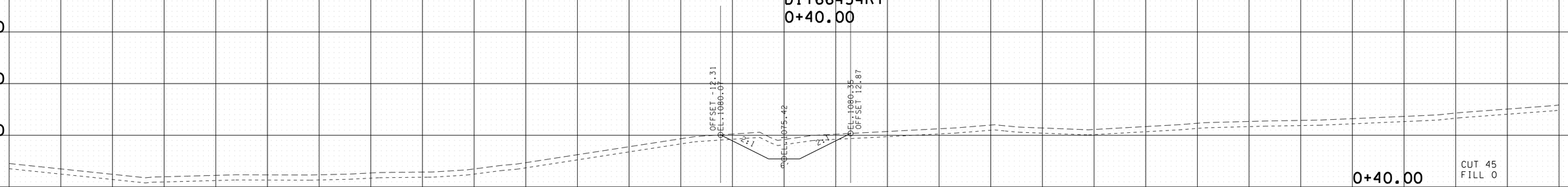
0+60.00
CUT 4
FILL 0

DIT66434RT
0+50.00



0+50.00
CUT 22
FILL 0

DIT66434RT
0+40.00



0+40.00
CUT 45
FILL 0

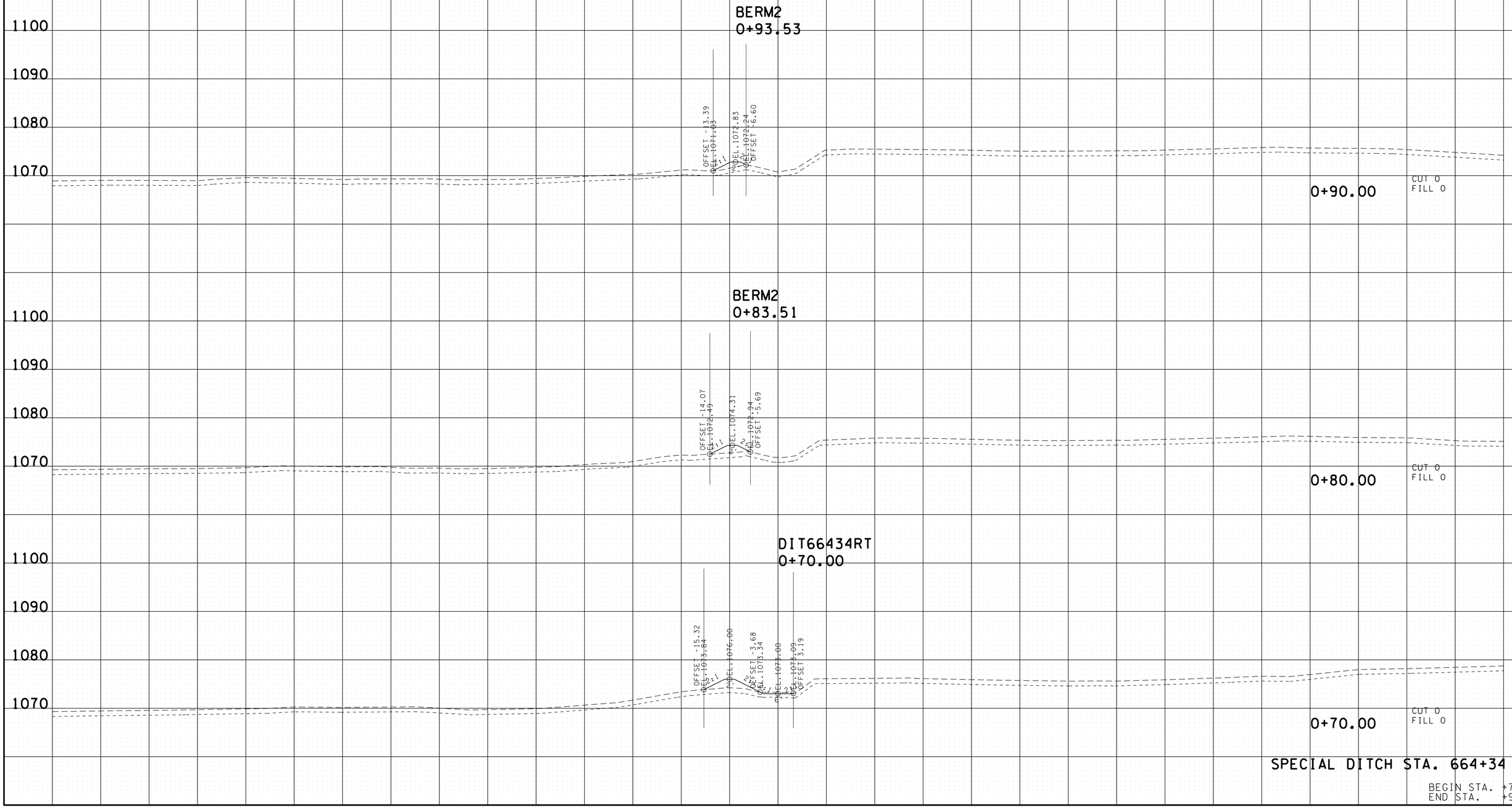
SPECIAL DITCH STA. 664+34 RT.

BEGIN STA. +40.00
END STA. +60.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

22-JAN-2015 07:57
C:\D DRIVE\OVERTON\SR-52\OVSP\DIT66434RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	379

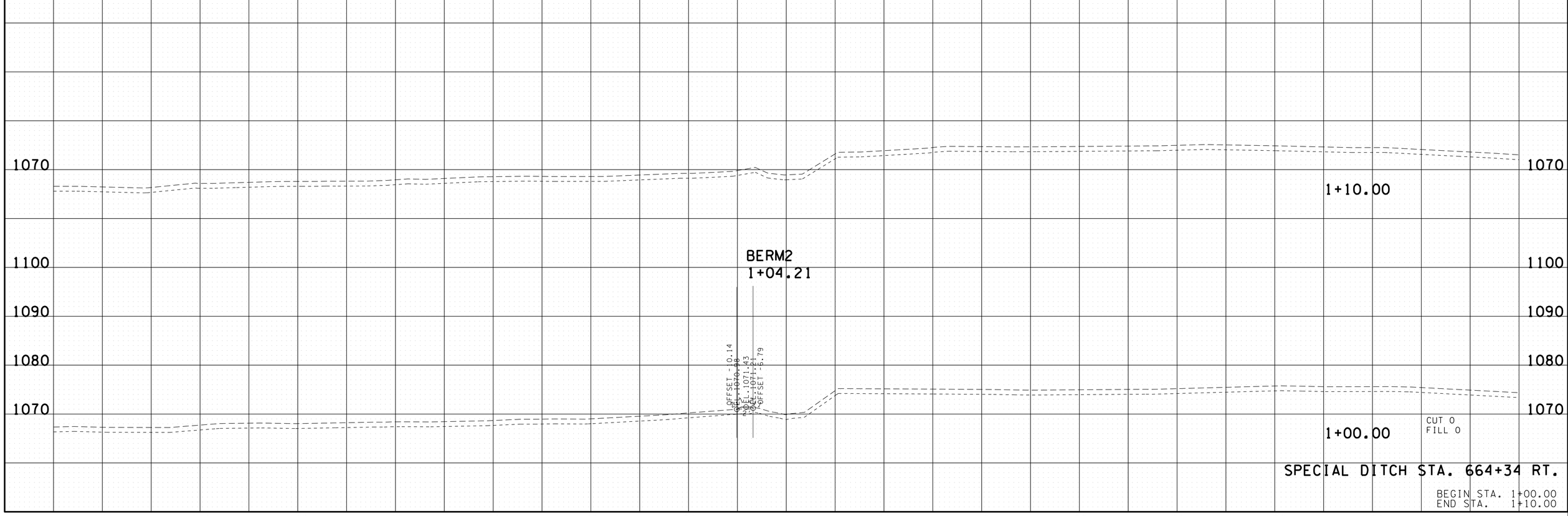


SPECIAL DITCH STA. 664+34 RT.

BEGIN STA. +70.00
END STA. +90.00

22-JAN-2015 07:57
C:\D DRIVE\OVERTON\SR-52\OVSPDIT66434RTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	APD/NH-52(48)	380



SPECIAL DITCH STA. 664+34 RT.

BEGIN STA. 1+00.00
END STA. 1+10.00

22-JAN-2015 07:57
C:\D DRIVE\OVERTON\SR-52\OVSPDIT66434RTXSections.sht