Index Of Sheets

SEE SHEET NO. 1A FOR INDEX

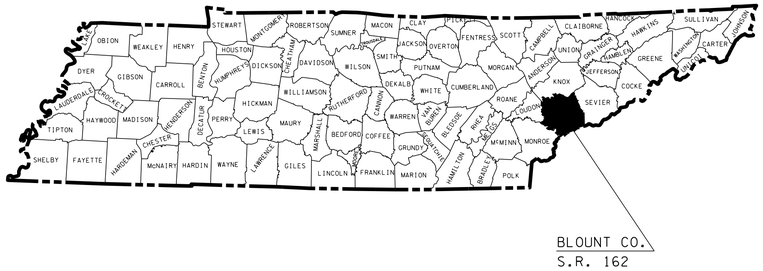
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	05950-3537-04	

BLOUNT CO. S.R. 162

BLOUNT COUNTY

S.R. 162: INDUSTRIAL ACCESS ROAD SERVING ALUMINUM COMPANY OF AMERICA IN THE CITY OF ALCOA



GRADE, DRAIN, PAVE, BASE, GUARDRAIL, & RETAINING WALL

STATE HIGHWAY NO. 162 F.A.H.S. NO.

N

0 1000′ 2000′ 3000′

SCALE: 1"= 1000′

BEGIN 05950-3537-04
STA. 103+60.00 (CONST.)

END 05950-3537-04
STA. 114+80.00 (CONST.)

NO EXCLUSIONS
NO EQUATIONS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

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.

ROADWAY LENGTH	0.212 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.212 MILES

TRAFFIC DATA	
ADT (2014)	3500
ADT (2034)	5420
DHV (2034)	1100
D	60 - 40
T (ADT)	8 %
T (DHV)	5 %
V	60 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

TDOT TRANS. PROJ. SP. SV. 2 MAYSOON HADDAD

DESIGNER ERIC WILSON CHECKED BY PAUL BEEBE

P.E. NO. 05950-1537-04

PIN 119593.00

7-MAR-2014 09:00
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	05950-3537-04	1A

BLOUNT CO. S.R. 162

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NO PROJECT COMMITMENT SHEET INCLUDED IN THIS SET OF PLANS

STANDARD ROADWAY DRAWINGS

ROADWAY DESIGN STANDARDS

DWG. NO.	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-8		STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	05-27-01	UNDERDRAIN LATERAL DETAILS
RD-UD-9	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-4	07-23-13	DESIGN STANDARDS 1 AND 2 LANE RAMPS
RD01-TS-5	10-15-02	DESIGN STANDARD FREEWAYS WITH DEPRESSED MEDIANS

DRAINAGE - CULVERTS AND ENDWALL

D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PE-4	01-15-13	STRAIGHT CONCRETE ENDWALL
D-PE-18A	06-14-13	18” CONCRETE ENDWALL CROSS DRAIN
D-PE-18B		18” CONCRETE ENDWALL CROSS DRAIN
D-PE-24A	06-14-13	24” CONCRETE ENDWALL CROSS DRAIN
D-PE-24B		24” CONCRETE ENDWALL CROSS DRAIN
D-SEW-1A	06-14-13	SIDE DRAIN CONCRETE 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-12B	09-24-12	STANDARD RECTANGULAR BRICK NO. 12 CATCH BASIN
D-CB-12P	09-24-12	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-12-12RB	09-24-12	STANDARD PRECAST 60” AND 72” CIRCULAR NO.12 CATCH BASIN (FOR USE WITH 6” NONMOUNTABLE CURB
D-CB-12S	09-24-12	STANDARD RECTANGULAR CONCRETE NO.12 CATCH BASIN
D-CB-12SB	09-24-12	STANDARD 4’X4’ SQUARE CONCRETE NO.12 CATCH BASIN
D-CB-12-SC	09-24-12	STANDARD 5’2” X 5’2” SQUARE CONCRETE NO.12 CATCH BASIN
D-CB-41P	09-24-12	STANDARD 4’X3’ PRECAST RECTANGULAR CONCRETE NO.41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41RB	09-24-12	STANDARD PRECAST CIRCULAR NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41S	09-24-12	STANDARD 4’X3’ RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SB	09-24-12	STANDARD 4’X4’ SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SC	09-24-12	STANDARD 5’2” X 5’2” SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-42RB	09-24-12	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	09-24-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	09-24-12	STANDARD 5’2” X 5’2” SQUARE CONCRETE NO. 42 CATCH BASIN
D-CBB-12A	05-27-01	TYPE “B” CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16, AND 17 TYPE CATCH BASINS
D-CBB-31	05-27-01	TYPE “B” CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NO. 31, 41, 45, 46, & 51 TYPE CATCH BASINS
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-JBS-3	08-01-12	STANDARD 5’2” X 5’2” SQUARE CONCRETE NO. 3 JUNCTION BOX
D-MH-2	08-01-12	STANDARD MASONRY & PRECAST NO. 3 MANHOLE
D-MH-3	08-01-12	STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE
D-MH-4	08-01-12	STANDARD NO. 3 MANHOLE CASTING AND STEPS

ROADWAY AND PAVEMENT APPURTENANCES

RP-J-1	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-3	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-5	07-01-01	TYPICAL ACCELERATION AND DECELERATION LANE JOINT TYPES AND SPACING FOR CONCRETE RAMPS
RP-J-7	01-30-12	CONCRETE RAMP JOINT YPES AND SPACING
RP-J-9	02-02-12	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT
RP-J-11	07-29-96	3/4” AND 1-3/4” EXPANSION AND EDGE PAVEMENT JOINTS
RP-J-13	03-30-91	3/4” AND 1-3/4” ELASTOMERIC COMPRESSION JOINT SEALS
RP-J-15	01-19-02	LONGITUDINAL CONTRACTION AND CONSTRUCTION JOINTS
RP-J-17	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-18	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-19	02-02-12	DOWEL ASSEMBLY DEVICES
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD ROADWAY DRAWINGS

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

7-MAR-2014 09:00
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	05950-3537-04	1B

BLOUNT CO. S.R. 162

STANDARD ROADWAY DRAWINGS (CONT'D)

DWG. NO	REV.	DESCRIPTION

SAFETY APPURTENANCES AND FENCE

DWG. NO	REV.	DESCRIPTION
S-CZ-1		CLEAR ZONE CRITERIA
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-F-10B	05-14-10	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-GR31-1		W-BEAM GUARDRAIL
S-GRA-1		GUARDRAIL ANCHOR FOR TYPE 12
S-GRA-1A		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL (ALTERNATIVE)
S-GRA-3		GUARDRAIL ANCHOR FOR TYPE 21, 13 AND IN-LINE TERMINALS
S-GRC-1		GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRT-1		TYPE 12 GUARDRAIL TERMINAL (BURIED-IN BACKSLOPE)
S-GRT-4		TYPE 13 GUARDRAIL TERMINAL (TRAILING END)
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-SSMB-1	08-19-13	32" SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-5		SINGLE SLOPE MEDIAN BARRIER WALL CATCH BASIN DETAIL
S-SSMB-6	10-24-13	GUARDRAIL ATTACHMENT TO SINGLE SLOPE CONCRETE BARRIER WALL

TRAFFIC CONTROL APPURTENANCES

DWG. NO	REV.	DESCRIPTION
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-15-13	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	09-19-91	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	11-01-11	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-5	04-23-13	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-6	06-22-12	MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-15		ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-S-6	02-12-91	STANDARD MOUNTING DETAILS – BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-9	11-01-11	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTED DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-12	05-27-03	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-20-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	08-17-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-16	11-01-11	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-S-21	02-28-13	DETAILS FOR SIGNS MOUNTED ON CONCRETE MEDIAN BARRIERS
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-13-09	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-12	03-13-09	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS

EROSION PREVENTION AND SEDIMENT CONTROL

DWG. NO	REV.	DESCRIPTION
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	ENCHANCED ROCK CHECK DAM
EC-STR-11A	08-01-12	CULVERT PROTECTION TYPE 2
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-37	08-01-12	SEDIMENT TUBE
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD ROADWAY DRAWINGS

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.	2013	05950-3537-04	2

BLOUNT CO. S.R. 162

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(1) (2)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	19991
	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	28910
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	459
	203-06	WATER	M.G.	20
	209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	70
	209-05	SEDIMENT REMOVAL	C.Y.	81
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	114
(4)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	1041
(2)	209-08.07	ROCK CHECK DAM	EACH	9
(3)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	7
	209-09.01	SANDBAGS	BAG	8
	209-09.04	SEDIMENT FILTER BAG(15' X 10')	EACH	2
	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	10
	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	2
	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	2
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	2564
(2) (5)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	30
	313-03	TREATED PERMEABLE BASE	S.Y.	5450
	501-01.03	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	S.Y.	5450
	502-08.01	RESEALING JOINTS (HOT POURED ELASTIC)	L.F.	1215
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	581
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	40
	611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	1
	611-02.12	JUNCTION BOX, TYPE 3	EACH	1
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	1
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	40
	611-07.59	24IN ENDWALL (CROSS DRAIN) 6:1	EACH	1
	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	1
	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	3
	611-41.02	CATCH BASINS, TYPE 41, > 4' - 8' DEPTH	EACH	1
	611-41.03	CATCH BASINS, TYPE 41, > 8' - 12' DEPTH	EACH	3
	611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	2
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	68
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	510
	705-04.02	GUARDRAIL TERMINAL (TYPE 12)	EACH	2
	705-04.03	GUARDRAIL TERMINAL (TYPE 13)	EACH	1
(10)	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	1
	706-01	GUARDRAIL REMOVED	L.F.	1072
(2) (3)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	257
(2) (6)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	100
(2) (7)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	42
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	2837
	710-05	LATERAL UNDERDRAIN	L.F.	42
	710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	3
	711-05.70	32IN SINGLE SLOPE CONCRETE BARRIER WALL	L.F.	1180
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	1300
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	50
	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	65
(3)	712-05.01	WARNING LIGHTS (TYPE A)	EACH	29
(8)	712-06	SIGNS (CONSTRUCTION)	S.F.	534
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	86
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
	712-09.02	REMOVABLE PAVEMENT MARKING (8" BARRIER LINE)	L.F.	1900
	712-09.30	REMOVABLE BLACK-OUT TAPE (6")	L.F.	780

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y.	1
	713-01.02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	LB.	227
	713-02.14	FLEXIBLE DELINEATOR (WHITE)	EACH	6
	713-02.26	CONCRETE BARRIER/PARAPET DELINEATOR	EACH	12
(11)	713-06	STEEL I-BEAMS & WF-BEAMS(BREAKAWAY) SIGN SUPPORT	LB.	908
	713-11.01	"U" SECTION STEEL POSTS	LB.	71
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	204
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	52
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	16
(12)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	1
(11)	713-30.09	BARRIER MOUNTED SIGN SUPPORT (M.M. 12)	EACH	1
	716-01.22	Snwplwble Pvmt Mrkrs (Mono-Dir)(1 Color)	EACH	19
	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	290
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	0.5
	716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	740
	716-12.05	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.	800
	717-01	MOBILIZATION	LS	1
	740-06.01	GEOMEMBRANE	S.Y.	84
(9)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	322
(2)	740-11.01	TEMPORARY SEDIMENT TUBE - 8IN	L.F.	1041
(3)	740-11.04	TEMPORARY SEDIMENT TUBE - 20IN	L.F.	660
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	31
	801-03	WATER (SEEDING & SODDING)	M.G.	3
(13)	803-01	SODDING (NEW SOD)	S.Y.	2721

RETAINING WALL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
604-07.01	RETAINING WALL (WALL #1)	S.F.	5834

① INCLUDES 144 C.Y. FOR TEMPORARY BERM AND 14 C.Y. FOR TEMPORARY CONSTRUCTION ENTRANCE/EXIT.

② SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATION FOR MAINTENANCE REPLACEMENT.

③ TO BE INCREASED OR DECREASED AS DIRECTED BY THE T.D.O.T. OPERATIONS DISTRICT ENGINEER.

④ INCLUDES 97 L.F. FOR SEDIMENT FILTER BAG.

⑤ INCLUDES 10 TONS FOR SPECIAL DITCH FROM STA. 14+99± RT. TO STA. 15+76± RT., 12 TONS FOR CULVERT PROTECTION TYPE II, AND 8 TONS FOR SEDIMENT FILTER BAG.

⑥ TO BE USED FOR TEMPORARY CONSTRUCTION ENTRANCE/EXIT.

⑦ INCLUDES 37 TONS FOR SPECIAL DITCH FROM STA. 14+99± RT. TO STA. 15+76± RT., AND 5 TONS FOR RIP-RAP OUTLET PROTECTION.

⑧ FOR CONSTRUCTION SIGN LOCATIONS, SEE SHEET NO. 10.

⑨ INCLUDES 56 S.Y. FOR CULVERT PROTECT TYPE II, 94 S.Y. FOR SEDIMENT FILTER BAG AND 172 S.Y. FOR TEMPORARY CONSTRUCTION ENTRANCE/EXIT.

⑩ THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE 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. ITEM IS TO BE PAID FOR DURING INITIAL INSTALLATION ONLY. NO ADDITIONAL COMPENSATION IS TO BE PAID FOR MOVING ATTENUATOR FROM ONE LOCATION TO THE NEXT.

⑪ SEE LAYOUT SHEETS FOR SIGNING DETAILS.

⑫ REMOVE SUPPORTS AND FOOTINGS ON 2 SIGNS, REMOVE SUPPORT ON 1 SIGN WITHIN THE PROJECT LIMITS OR AS DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER.

⑬ INCLUDES 42 S.Y. FOR SPECIAL DITCH FROM STA. 14+99± RT. TO 15+76± RT.

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ESTIMATED ROADWAY AND RETAINING WALL QUANTITIES

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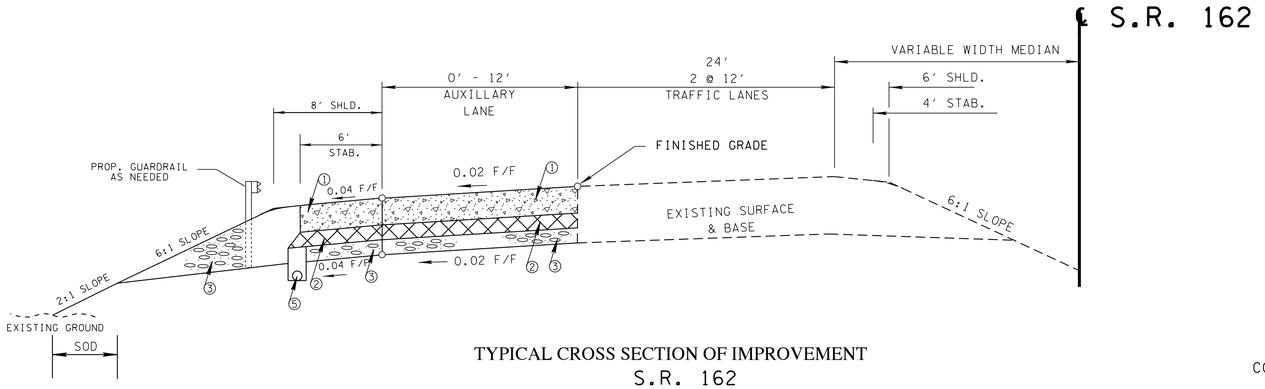
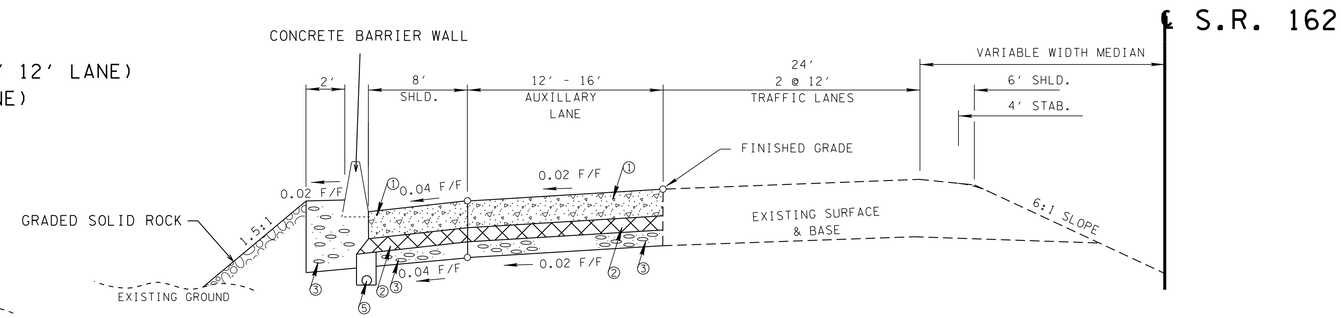
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	2
CONST.	2014	05950-3537-04	2A

BLOUNT CO. S.R. 162

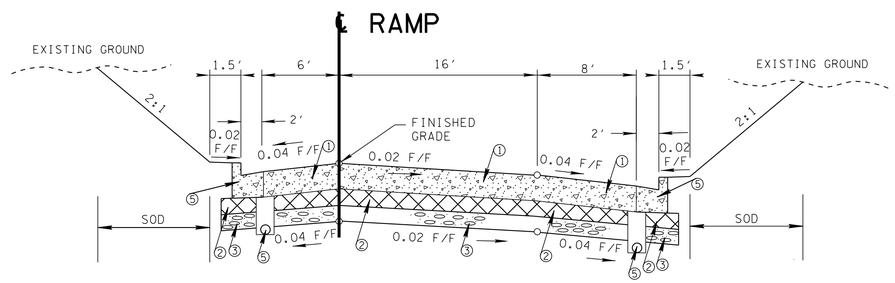


TYPICAL CROSS SECTION OF IMPROVEMENT
S.R. 162
STA. 103+60.00 TO STA. 106+60.00 (TRANSITION 0' - AUXILLARY 12' LANE)
STA. 106+60.00 TO STA. 109+00.00 (12' AUXILLARY LANE)

ALL SLOPES THAT ARE NOT CONSTRUCTED OF GRADED SOLID ROCK SHALL BE PERMANENTLY STABILIZED WITH SOD (ITEM NO. 803-01).

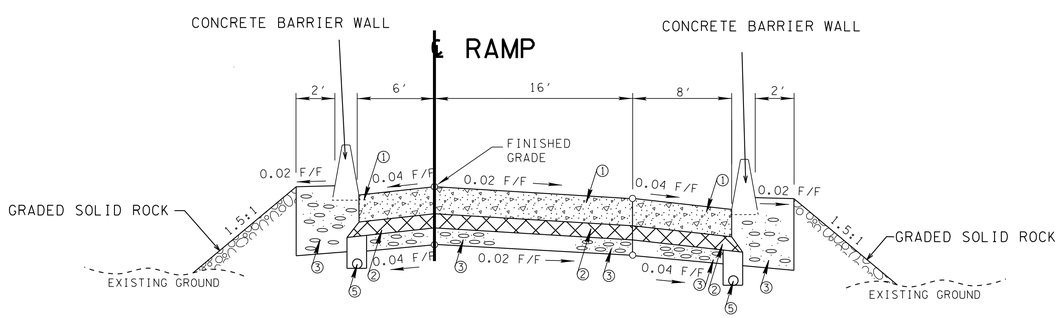


TYPICAL CROSS SECTION OF IMPROVEMENT
S.R. 162
STA. 109+00.00 TO STA. 109+20.00 (12' AUXILLARY LANE)
STA. 109+20.00 TO STA. STA. 111+60.00 (TRANSITION 12' - 16' AUXILLARY LANE)*
*RETAINING WALL (STA. 110+70.00 LT. TO STA. 111+60.00 LT.)
SEE RAMP CROSS SECTIONS AND SHT. 2F FOR RETAINING WALL DETAILS



TYPICAL CROSS SECTION OF IMPROVEMENT

RAMP FROM CUSICK ROAD TO S.R. 162 W.B.
STA. 10+12.00 TO STA. 14+25.00



TYPICAL CROSS SECTION OF IMPROVEMENT

RAMP FROM CUSICK ROAD TO S.R. 162 W.B.
STA. 14+25.00 TO STA. 20+30.43*
*RETAINING WALL (STA. 16+60.00 RT. TO STA. 20+30.43.00 RT.)
SEE RAMP CROSS SECTIONS AND SHT. 2F FOR RETAINING WALL DETAILS

PAVEMENT SCHEDULE

(1) PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10" 501-01.03 PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	(4) CONCRETE COMBINED CURB AND GUTTER TYPE 6-30 DEPTH 10" 702-03 CONCRETE COMBINED CURB AND GUTTER DWG. NO. RP-NMC-10
(2) TREATED PERMEABLE BASE @ 4" THICK 313-03 TREATED PERMEABLE BASE	(5) AGGREGATE UNDERDRAIN 710-02 AGGREGATE UNDERDRAIN (WITH PIPE) (SEE DETAIL "D" STD. DWG. NO. RD-UD-3)
(3) MINERAL AGGREGATE BASE @ 4" THICK (ROADWAY) & FULL DEPTH (SHOULDER) 303-01 MINERAL AGGREGATE , TYPE "A" BASE, GRADING "D"	

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TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	2A
CONST.	2014	05950-3537-04	2B

BLOUNT CO. S.R. 162

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 AND SEWER:

CITY OF ALCOA-PUBLIC WORKS DEPT
725 UNIVERSAL STREET
ALCOA, TN 37701
865-380-4800
SIMON DEVENTE

POWER:

CITY OF ALCOA ELECTRIC
ENGINEERING & OPERATIONS
725 UNIVERSAL STREET
ALCOA, TN 37701
865-981-4115
LARRY STARGEL

CABLE:

XFINITY (COMCAST)
5720 ASHEVILLE HWY
KNOXVILLE, TN 37924
865-862-5061
JOSH JONES

TELEPHONE:

AT&T
9733 PARKSIDE DRIVE
KNOXVILLE, TN 37922
865-539-8579
DAVID OVERMAN

POWER:

CITY OF MARYVILLE ELECTRIC DEPARTMENT
332 HOME AVENUE
MARYVILLE, TN 37801
856-273-3328
JAMES BOND

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UTILITIES NOTES AND OWNERS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	05950-3537-04	2C

BLOUNT CO. S.R. 162

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) 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.

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) 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.

(3) 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, ENDWALLS, CATCH BASINS, MANHOLE AND JUNCTION BOX 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) 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) 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 PAVEMENT MARKINGS

PAVEMENT MARKINGS

(1) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" 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. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN 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.

SIGNING

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

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

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

(4) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS (3 SETS) OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. THE LAYOUT DRAWINGS SHALL BE SENT TO THE ROADWAY DESIGN DIVISION, SIGNING AND MARKING SECTION, SUITE 1300, J. K. POLK BUILDING, NASHVILLE, TN 37243-1402.

(5) 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.

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

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

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.

(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.

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.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	05950-3537-04	2D

BLOUNT CO. S.R. 162

GENERAL NOTES (CONT'D)

(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 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 ROADWAY 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.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	05950-3537-04	2E

BLOUNT CO. S.R. 162

GENERAL NOTES (CONT'D)

LITTER, DEBRIS, WASTE, PETROLEUM

(1) 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.

(2) 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.

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 RESPONSIBILTY 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 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

(1) ITEM NO. 803-01, SODDING (NEW SOD) SHALL BE USED ON ALL ROADWAY SOIL SLOPES THAT ARE NOT CONSTRUCTED OF GRADED SOLID ROCK.

MISCELLANEOUS

(1) RADIIS ARE TO BE CONSTRUCTED AS PER DETAILS ON SHEET 4A TO ACHIEVE THE APPROPRIATE MINIMUM VEHICLE TURNING PATHS.

(2) THE CONTRACTOR SHALL BREAK BOND BETWEEN PROPOSED CONCRETE BARRIER AND EXISTING BRIDGE RAIL USING 1" BITUMINOUS FIBER BOARD. COST TO BE INCLUDED IN THE PRICE BID FOR CONCRETE BARRIER.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL NOTES

(1) THE CONTRACTOR SHALL COMPLY WITH SECTION 712 OF THE STANDARD SPECIFICATIONS FOR ROAD BRIDGE CONSTRUCTION REGARDING TEMPORARY TRAFFIC CONTROL AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(2) MESSAGE BOARDS SHALL BE USED NEAR INTERCHANGES AND/OR OTHER DESIGNATED AREAS IN ADVANCE OF THE WORK ZONE TO ALERT MOTORISTS OF POSSIBLE DELAYS AND RECOMMEND THE USE OF ALTERNATE ROUTES. THE MESSAGES SHALL BE UPDATED AS OFTEN AS NECESSARY SO THAT MOTORISTS OBTAIN CURRENT TRAFFIC INFORMATION. MESSAGE BOARDS SHALL BE RELOCATED AS NECESSARY AS THE WORK PROGRESSES. THE CONTRACTO SHALL BE REQUIRED TO IDENTIFY AN INDIVIDUAL WORKING ON THE PROJECT THAT WILL BE RESPONSIBLE FOR KEEPING THE MESSAGES CURRENT AND RELOCATING THE MESSAGE BOARDS AS REQUESTED BY THE T.D.O.T. OPERATIONS DISTRICT ENGINEER. THE T.D.O.T. OPERATIONS DISTRICT ENGINEER WILL HAVE THE AUTHORITY TO APPROVE ALL MESSAGES AND REQUIRE CHANGES AT ANY TIME DUE TO CHANGING TRAFFIC CONDITIONS.

(3) LANE CLOSURES SHALL ONLY BE PERMITTED DURING NON-PEAK HOURS UNLESS OTHERISE DIRECTED BY THE TDOT OPERATIONS DISTRICT ENGINEER.

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 5, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

SCOPE OF WORK

(1) THIS PROJECT INCLUDES THE GRADING, DRAINAGE, BASE AND PAVEMENT OF S.R. 162 AND RAMP FROM LINES AND GRADES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. OPERATIONS DISTRICT ENGINEER.

(2) THIS PROJECT INCLUDES THE CONSTRUCTION OF A CONCRETE BARRIER AND A GABION RETAINING WALL AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. OPERATIONS DISTRICT ENGINEER.

(3) THIS PROJECT INCLUDES THE APPLICATION OF PAVEMENT MARKINGS, SODDING, TRAFFIC CONTROL DEVICES, EPSC DEVICES AND OTHER DESIGN FEATURES AS INDICATED ON THE PLANS OR AS DIRECTED BY THE T.D.O.T. OPERATIONS DISTRICT ENGINEER.

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GENERAL NOTES, SPECIAL NOTES & SCOPE OF WORK

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2013	05950-3537-04	2F

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

DRAINAGE STRUCTURE TABULATION

SHEET NO.	DRAINAGE CODE	STATION	OFFSET (FT.)	GRATE/ TOP ELEV.	INLET ELEV.	OUTLET ELEV.	STRUCTURE TYPE	DEPTH (FT.)	CATCH BASINS TYPE 12 0' - 4' 611-12.01	CATCH BASINS TYPE 12 4' - 8' 611-12.02	CATCH BASIN TYPE 41 4' - 8' 611-41.02	CATCH BASIN TYPE 41 8' - 12' 611-41.03	CATCH BASIN TYPE 42 4' - 8' 611-42.02	MANHOLE 8' - 12' 611-01.03	JUNCTION BOX (TYPE 3) 611-02.12	CLASS "A" CONCRETE C.Y. 611-07.01	STEEL BAR REINFORCEMENT L.B. 611-07.02	24" ENDWALL (CROSS DRAIN) 6:1 611-07.59
4A	1	17+63	25' RT.	860.30	852.13	852.00	41	8.30				1						
4A	2	17+12	8' LT.	860.50	N/A	854.10	42	6.40					1					
4A	3	16+90	8' RT.	N/A	854.48	853.78	JUNCTION BOX	N/A							1			
4A	4	16+87	25' RT.	859.92	853.72	851.50	41	8.42				1						
4A	5	14+85	48' RT.	N/A	N/A	845.50	OUTLET	N/A										1
4A	6	14+50	24' RT.	856.21	850.34	845.70	41	10.51				1						
4A	7	14+50	6' LT.	856.61	850.66	850.50	41	6.11			1							
4A	8	13+86	11' LT.	855.26	N/A	850.97	42	4.29					1					
4A	9	13+86	13' LT.	N/A	N/A	855.28	OUTLET	N/A								1	40	
4A	10	13+81	26' LT.	863.51	859.02	855.33	MANHOLE	8.18						1				
4A	11*	10+65	8' LT.	846.89	842.88	842.78	12	4.11		1								
4A	12*	10+60	29' RT.	846.41	N/A	843.01	12	3.40	1									
4A	13	10+27	27' LT.	847.14	842.64	842.58	12	4.56		1								
4A	14	10+26	53' RT.	846.57	842.22	841.94	12	4.63		1								
TOTALS									1	3	1	3	2	1	1	1	40	1

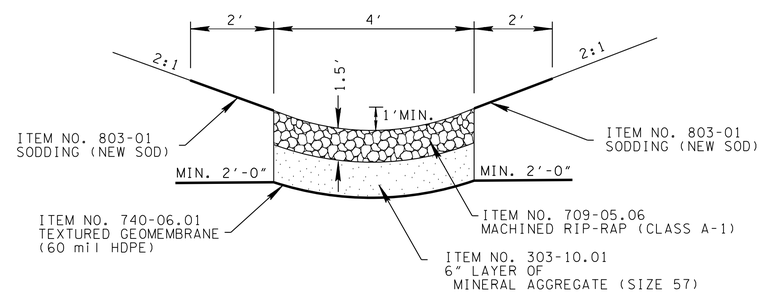
*TO BE LOW PROFILE CATCH BASIN. SEE STD. DWG. D-CB-12LP.

ESTIMATED GRADING QUANTITIES

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCLASS.) EXC. COMMON (C.Y.)	BORROW EXCAVATION GRADED SOLID ROCK (TONS)	EMB. (C.Y.)	EXCESS (C.Y.)	TOPSOIL (C.Y.)
S.R. 162	1513	2460	130		
RAMP	18174	26450	146		459
TOTALS	19687	28910	276	19084	459

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	GUARDRAIL SINGLE TYPE 2 705-02.02 (L.F.)	TERMINAL ANCHORS TYPE 12 705-04.02 (EACH)	TERMINAL ANCHORS TYPE 13 705-04.03 (EACH)	GUARDRAIL REMOVED 706-01 (L.F.)
3A	S.R. 162	X		105+00±	109+00±	400		1	
4A	RAMP	X		13+00±	14+25±	55	1		
4A	RAMP		X	13+00±	14+25±	55	1		
3	S.R. 162	X		104+40±	115+12±				1072
TOTALS						510	2	1	1072

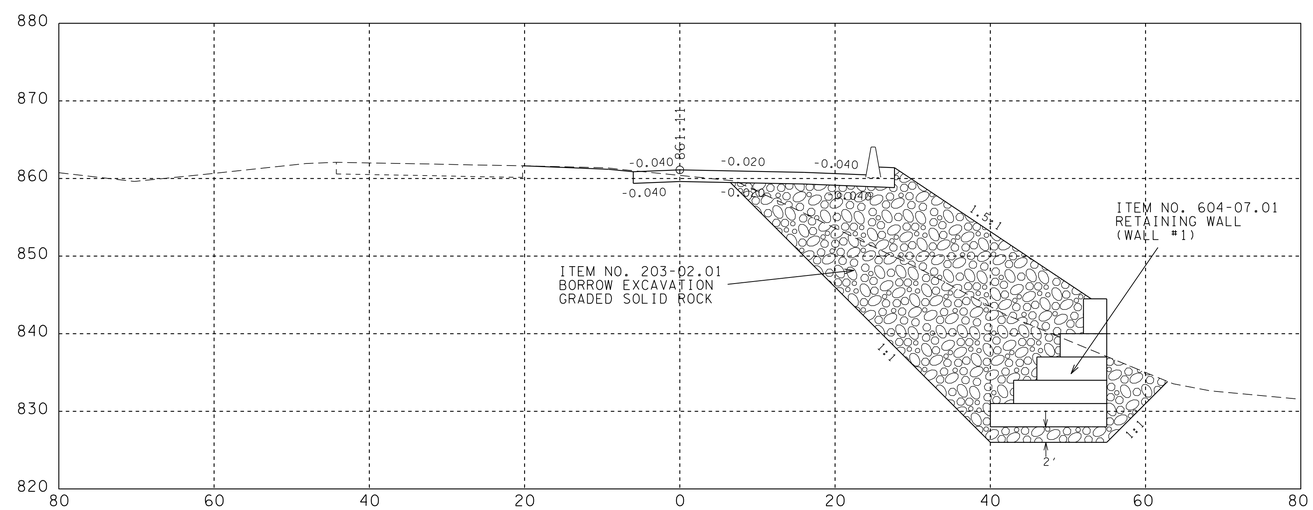


DETAIL OF RIP-RAP DITCH

STA. 14+99.00 (RT.) TO STA. 15+76.00 (RT.) RAMP

STORM SEWER PIPE TABULATION

SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	RCP - CLASS III SIZE & LENGTH (L.F.) 18"	RCP - CLASS III SIZE & LENGTH (L.F.) 24"
4A	1	852.00	4	851.63	0.5	74	
4A	2	854.10	3	853.98	0.5	24	
4A	3	853.78	4	853.72	0.5	12	
4A	4	851.50	6	850.34	0.5	232	
4A	6	845.70	5	845.50	0.5		40
4A	7	850.50	6	850.36	0.5	28	
4A	8	850.97	7	850.66	0.5	62	
4A	10	855.33	9	855.28	0.5	10	
4A	12	843.01	11	842.88	0.4	33	
4A	11	842.78	13	842.64	0.4	34	
4A	13	842.58	14	842.22	0.5	72	
TOTALS						581	40



TYPICAL RETAINING WALL SECTION STATION 18+00.00 (1"=10')

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TABULATED QUANTITIES & CONSTRUCTION DETAILS

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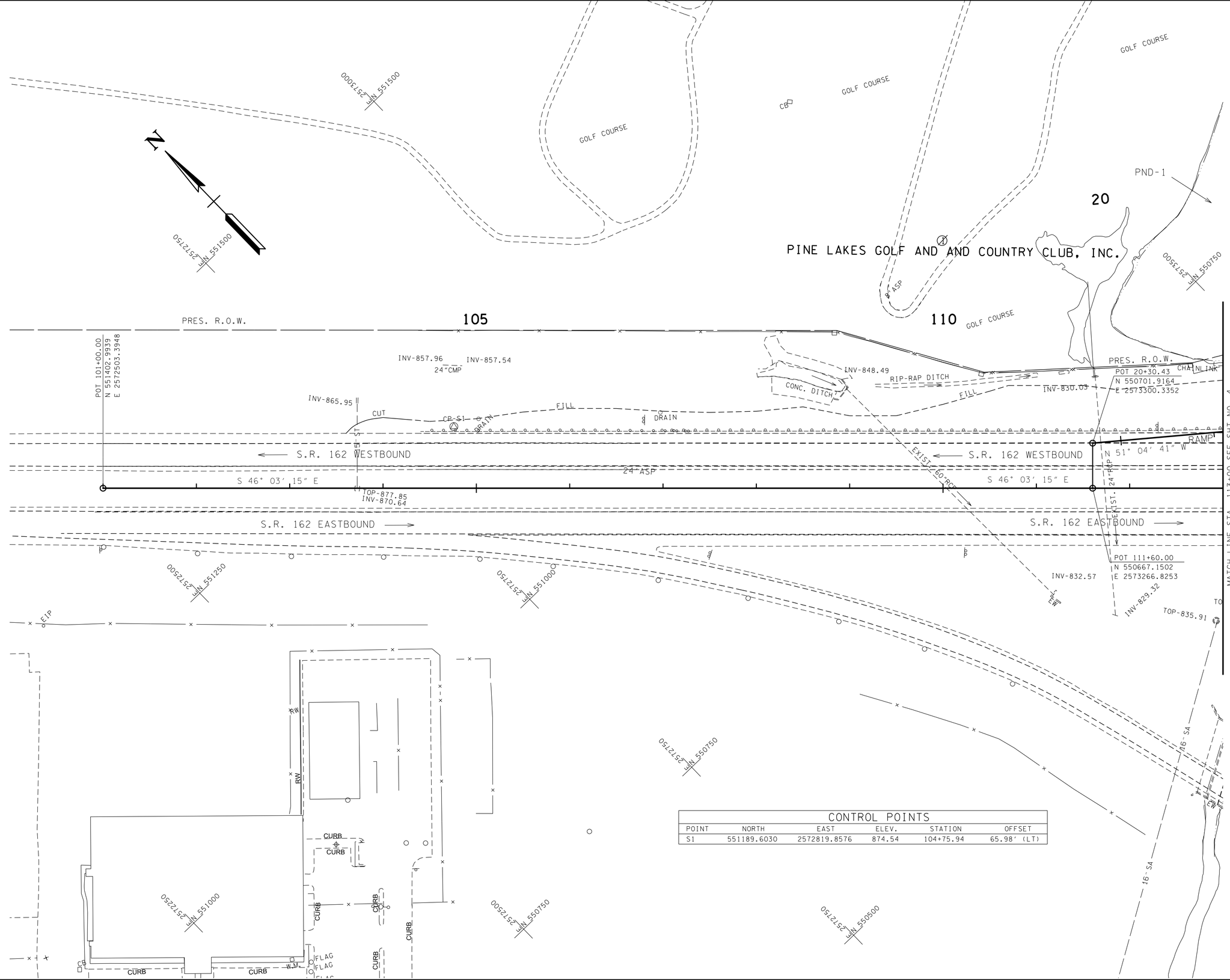
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	3
CONST.	2014	05950-3537-04	3

BLOUNT CO. S.R. 162



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S1	551189.6030	2572819.8576	874.54	104+75.94	65.98' (LT)

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PAUL THOMAS BEBBE
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
No. 102266
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000090 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 101+00 TO STA. 113+00

SCALE: 1"= 50'

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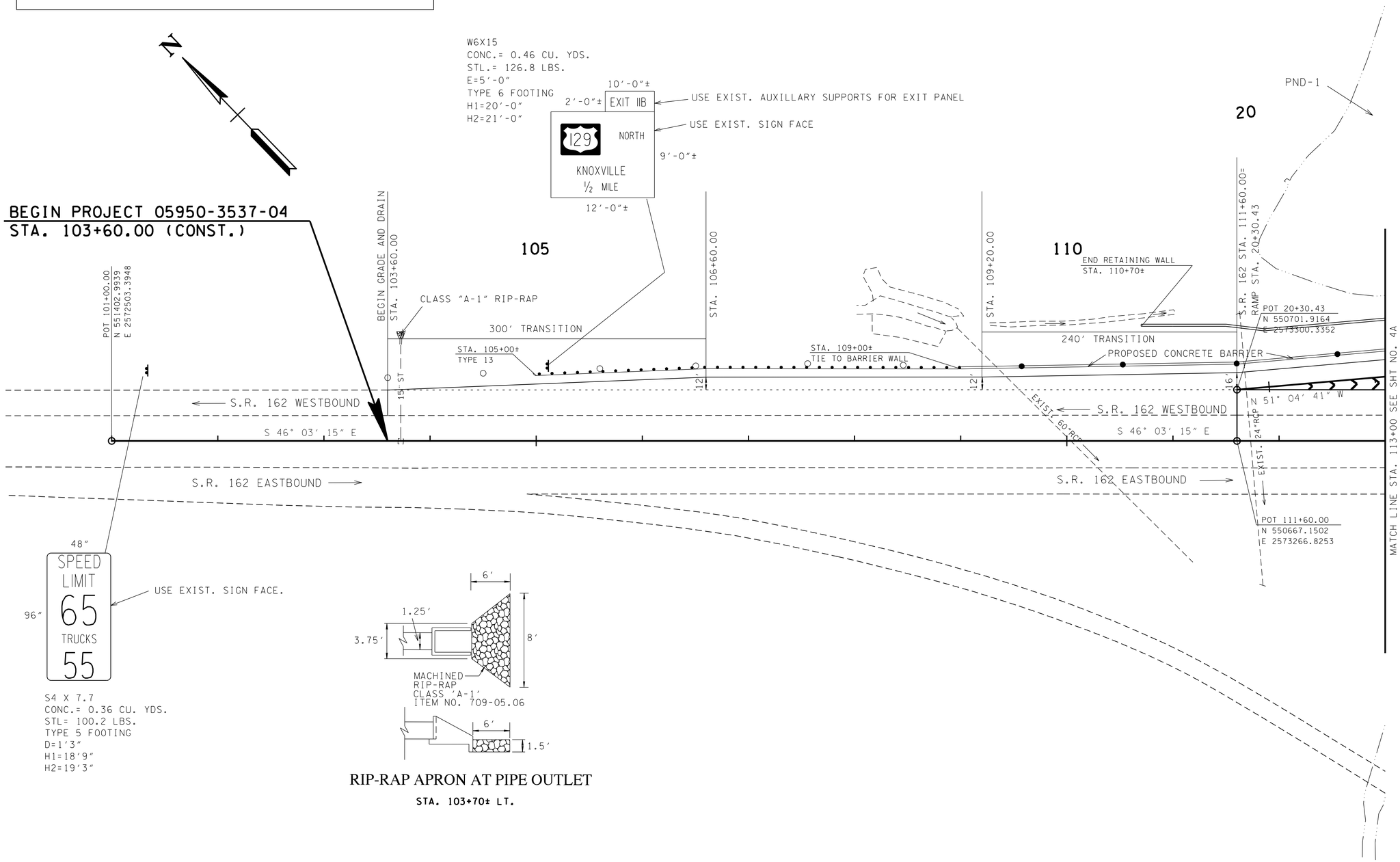
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	3A
CONST.	2014	05950-3537-04	3A

BLOUNT CO. S.R. 162

OUTLET OF EXISTING 15" ST AT STA. 103+70± TO BE CLEANED AND RIP-RAP OUTLET PROTECTION TO BE INSTALLED. COST TO BE INCLUDED IN ITEM NO. 709-05.06 MACHINED RIP-RAP (CLASS A-1).

○ FLEXIBLE DELINEATORS (WHITE)
● CONCRETE BARRIER DELINEATORS



RIP-RAP APRON AT PIPE OUTLET

STA. 103+70± LT.

UNOFFICIAL SET

NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 103+60 TO STA. 113+00

SCALE: 1"= 50'

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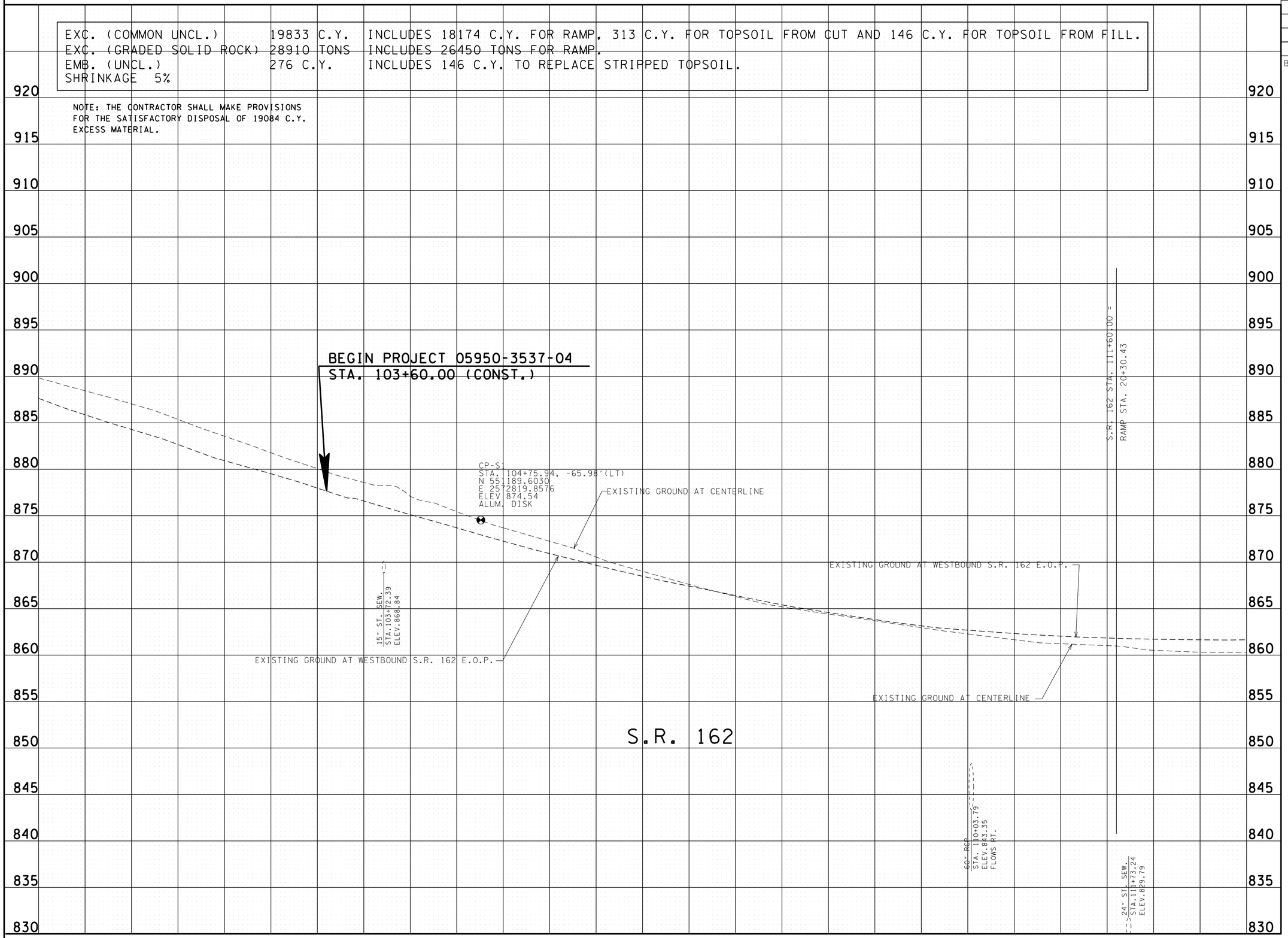
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	3B
CONST.	2014	05950-3537-04	3B

BLOUNT CO. S.R. 162

EXC. (COMMON UNCL.)	19833 C.Y.	INCLUDES 18174 C.Y. FOR RAMP, 313 C.Y. FOR TOPSOIL FROM CUT AND 146 C.Y. FOR TOPSOIL FROM FILL.	
EXC. (GRADED SOLID ROCK)	28910 TONS	INCLUDES 26450 TONS FOR RAMP.	
EMB. (UNCL.)	276 C.Y.	INCLUDES 146 C.Y. TO REPLACE STRIPPED TOPSOIL.	
SHRINKAGE 5%			

NOTE: THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SATISFACTORY DISPOSAL OF 19084 C.Y. EXCESS MATERIAL.



SEE SHEET 4C FOR RAMP AND CUSICK ROAD PROFILE

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 103+60 TO STA. 113+00

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

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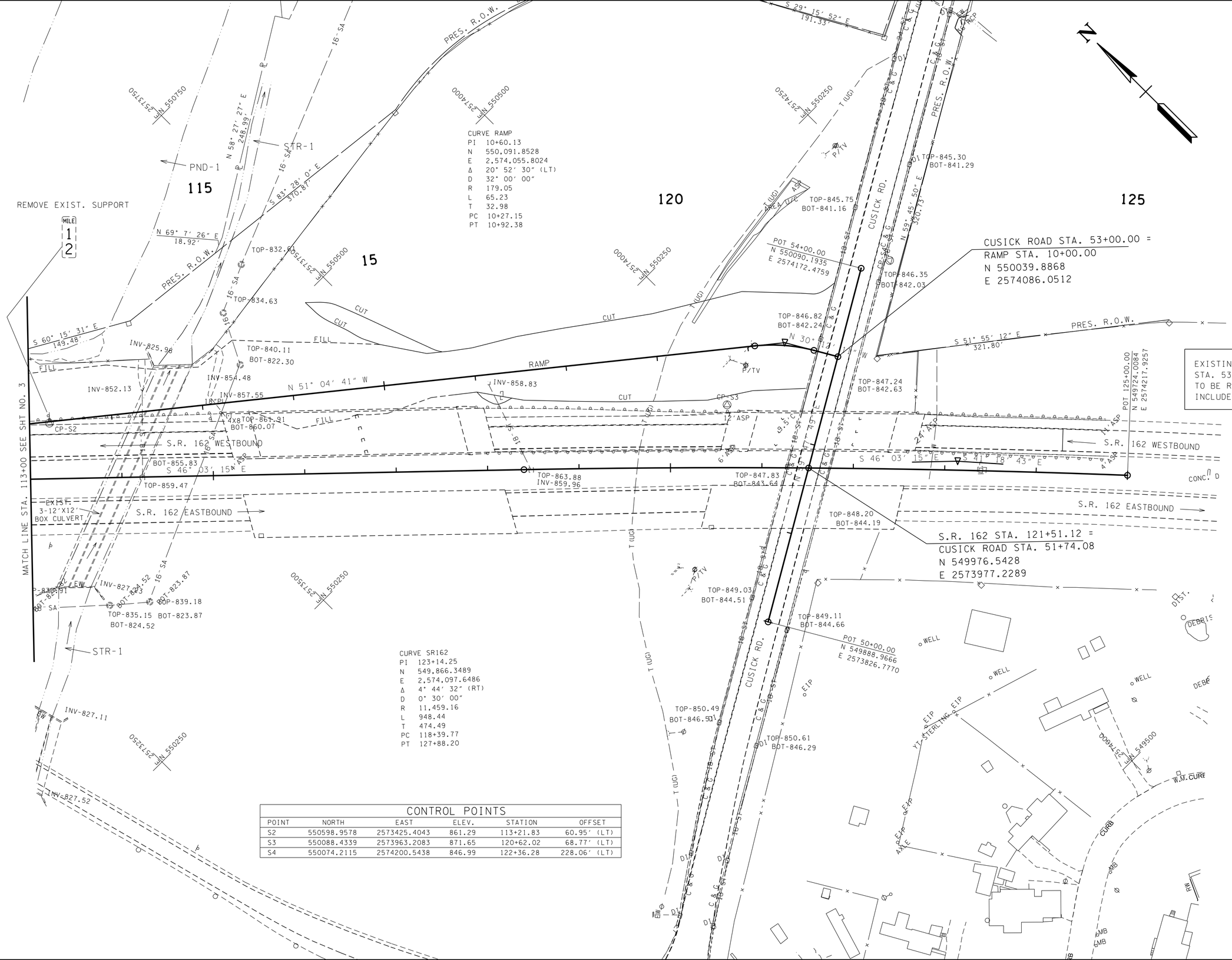
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	4
CONST.	2014	05950-3537-04	4

BLOUNT CO. S.R. 162



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S2	550598.9578	2573425.4043	861.29	113+21.83	60.95′ (LT)
S3	550088.4339	2573963.2083	871.65	120+62.02	68.77′ (LT)
S4	550074.2115	2574200.5438	846.99	122+36.28	228.06′ (LT)

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PAUL THOMAS BEERS
REGISTERED ENGINEER
No. 102266
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 113+00 TO STA. 125+00

SCALE: 1″= 50′

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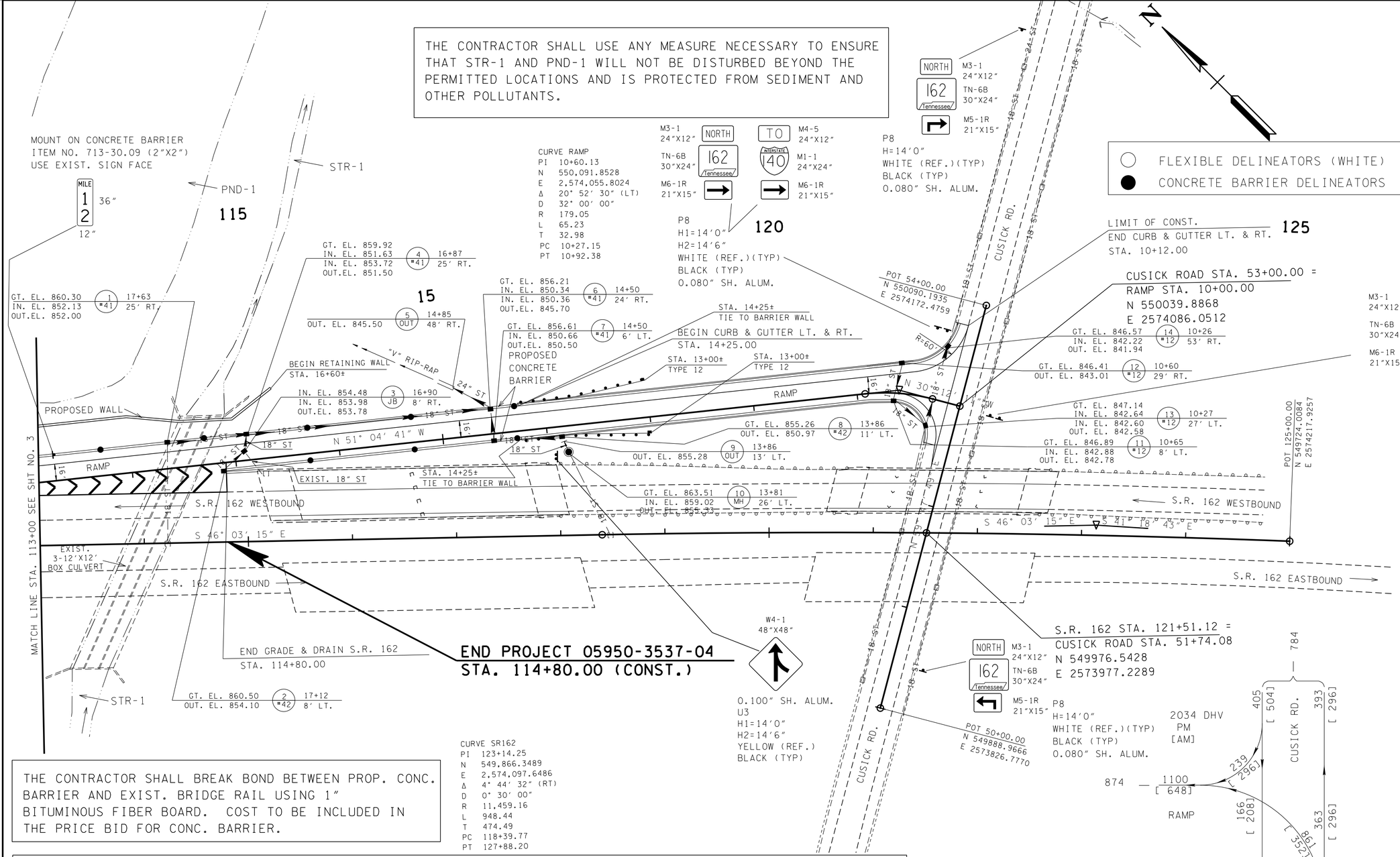
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	4A
CONST.	2014	05950-3537-04	4A

BLOUNT CO. S.R. 162

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT STR-1 AND PND-1 WILL NOT BE DISTURBED BEYOND THE PERMITTED LOCATIONS AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.



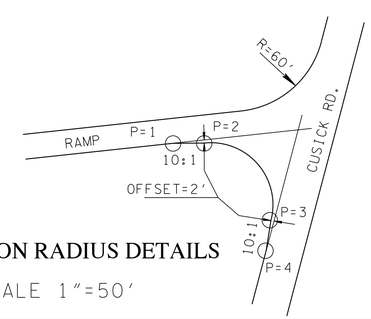
THE CONTRACTOR SHALL BREAK BOND BETWEEN PROP. CONC. BARRIER AND EXIST. BRIDGE RAIL USING 1" BITUMINOUS FIBER BOARD. COST TO BE INCLUDED IN THE PRICE BID FOR CONC. BARRIER.

CURVE SR162
PI 123+14.25
N 549,866.3489
E 2,574,097.6486
Δ 4° 44' 32" (RT)
D 0° 30' 00"
R 11,459.16
L 948.44
T 474.49
PC 118+39.77
PT 127+88.20

SIMPLE CURVE W/ 10:1 TAPER
(RADIUS=40') (OFFSET=2')

POINT NUMBER	STATION	OFFSET	NORTHING	EASTING	REMARKS
P-1	10+88.50	0.00'	550110.1317	2574033.1014	RAMP
P-2	10+68.50	-0.41'	550096.0976	2574047.3625	RAMP
P-3	10+13.79	-42.55'	550030.3992	2574042.3401	RAMP
P-4	10+12.00	-62.55'	550018.6166	2574026.0571	RAMP

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



INTERSECTION RADIUS DETAILS

SCALE 1"=50'

BLOUNT CO.
SR 162: WB ON-RAMP FROM CUSICK ROAD

DATE: JANUARY 27TH, 2013

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PAUL THOMAS BEEBE REGISTERED ENGINEER DEPT. OF AGRICULTURE COMMERCE & INS. No. 102366 STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 113+00 TO STA. 114+80

SCALE: 1"= 50'

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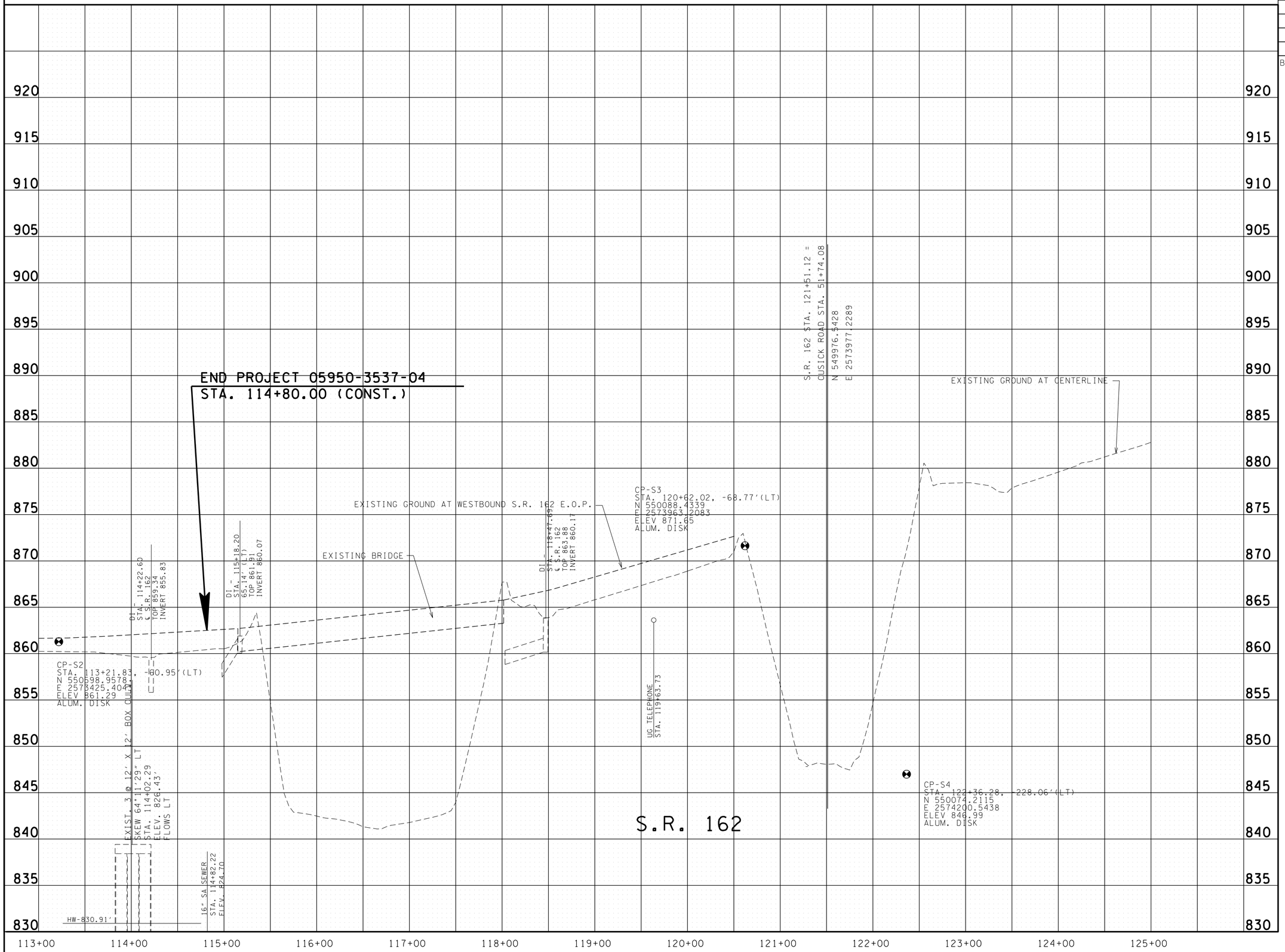
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	4B
CONST.	2014	05950-3537-04	4B

BLOUNT CO. S.R. 162



SEE SHEET 4C FOR RAMP AND CUSICK ROAD PROFILE

UNOFFICIAL SET

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SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 113+00 TO STA. 114+80

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

7-MAR-2014 09:08
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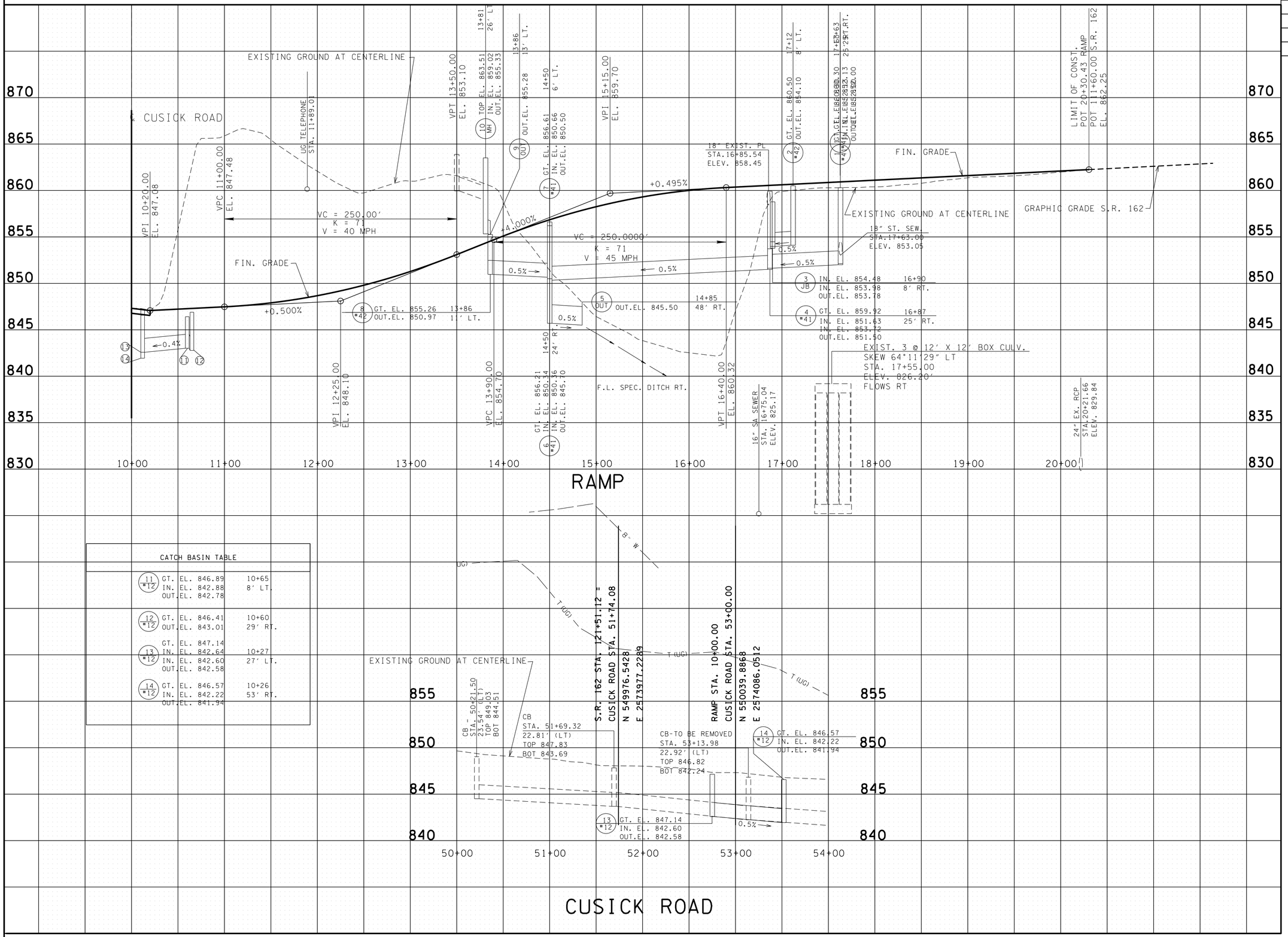
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	4C
CONST.	2014	05950-3537-04	4C

BLOUNT CO. S.R. 162

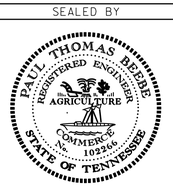


PROFILE OF CUSICK ROAD IS FOR REFERENCE ONLY

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

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.
UTIL.	2014	05950-1537-04	5
CONST.	2014	05950-3537-04	5

BLOUNT CO. S.R. 162

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

NPDES

(1) 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.

(2) 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.

(3) 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.

(4) 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.

(5) 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.

(6) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.

(7) 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.

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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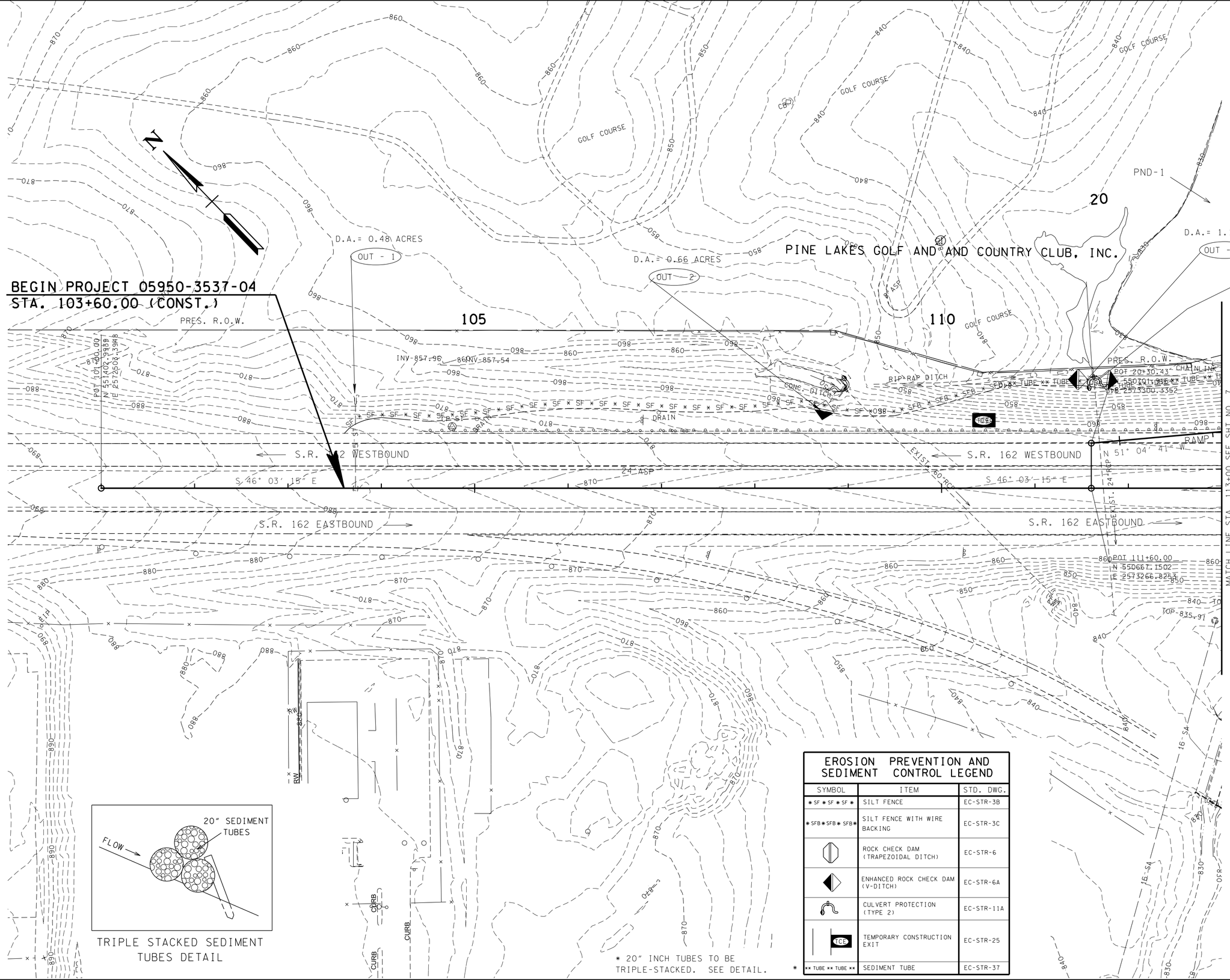
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	6
CONST.	2014	05950-3537-04	6

BLOUNT CO. S.R. 162



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
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
* ** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 102366
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN (STAGE 1)

STA.103+60.00 TO STA.113+00

SCALE: 1"= 50'

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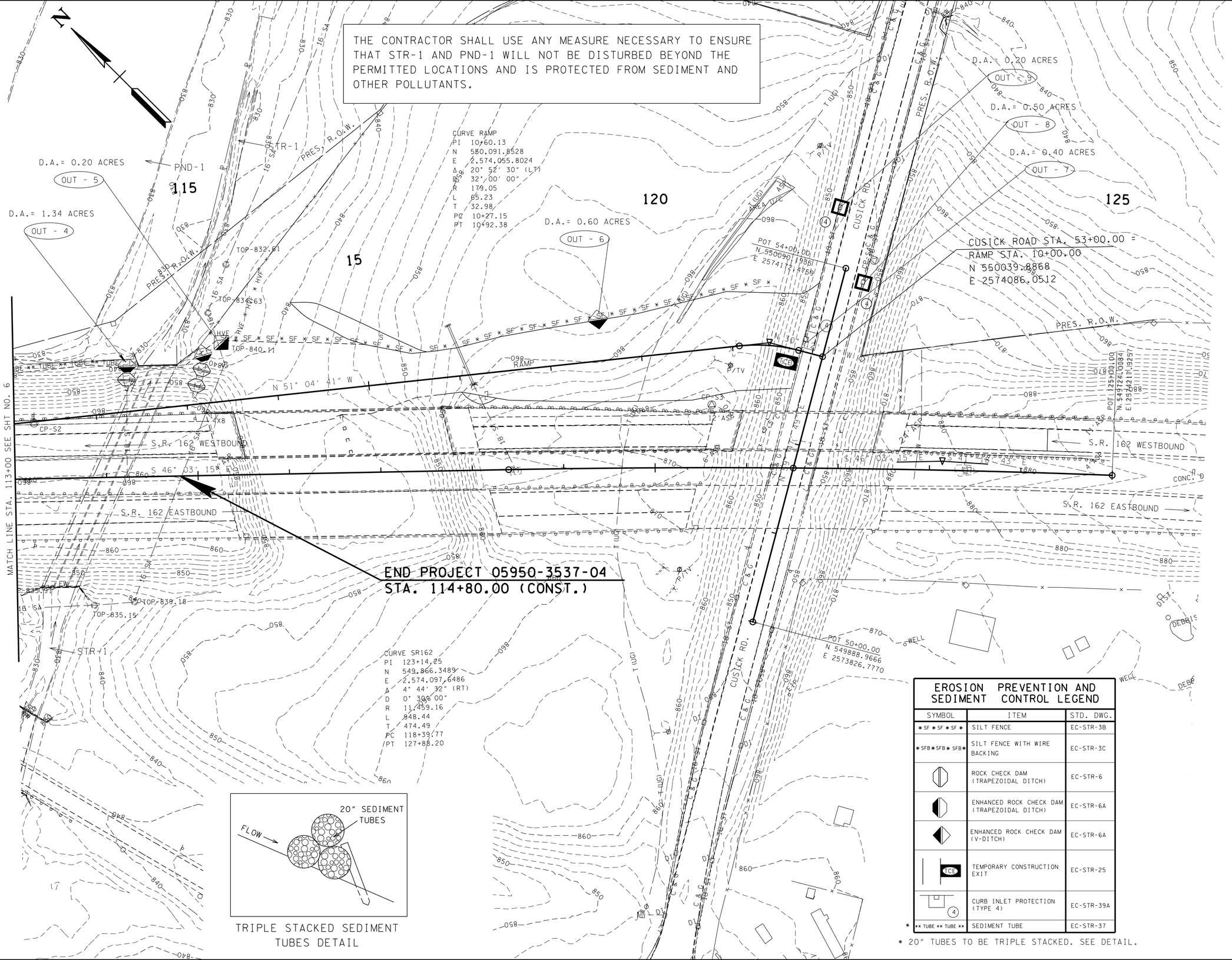
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	7
CONST.	2014	05950-3537-04	7

BLOUNT CO. S.R. 162

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT STR-1 AND PND-1 WILL NOT BE DISTURBED BEYOND THE PERMITTED LOCATIONS AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.



TRIPLE STACKED SEDIMENT TUBES DETAIL

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
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
* ** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

* 20" TUBES TO BE TRIPLE STACKED. SEE DETAIL.

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PAUL THOMAS BEEBE REGISTERED ENGINEER AGRICULTURE COMMERCE No. 102266 STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN (STAGE 1)

STA.113+00 TO STA.125+00

SCALE: 1"= 50'

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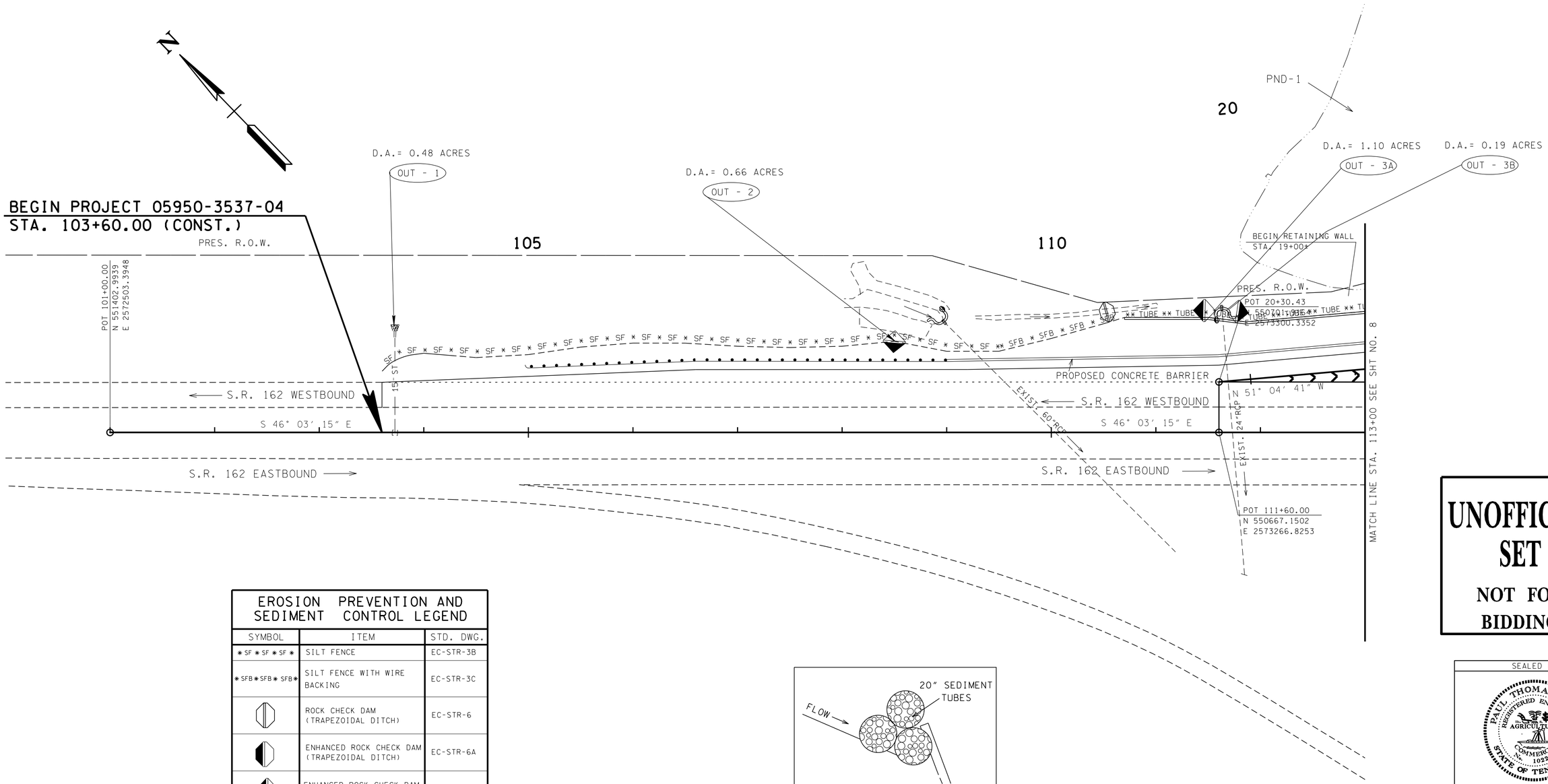
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	8
CONST.	2014	05950-3537-04	8

BLOUNT CO. S.R. 162


N
BEGIN PROJECT 05950-3537-04
STA. 103+60.00 (CONST.)
PRES. R.O.W.
105
110
20
PND-1
D.A.= 0.48 ACRES
OUT - 1
D.A.= 0.66 ACRES
OUT - 2
D.A.= 1.10 ACRES
OUT - 3A
D.A.= 0.19 ACRES
OUT - 3B
POT 101+00.00
N 551402.9939
E 2572503.3948
BEGIN RETAINING WALL
STA. 19+00±
PRES. R.O.W.
POT 20+30.43
N 550701.1934
E 2573300.3352
** TUBE ** TUBE ** TUBE ** TUBE ** TUBE **
SF * SF * SF *

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	9
CONST.	2014	05950-3537-04	9

BLOUNT CO. S.R. 162

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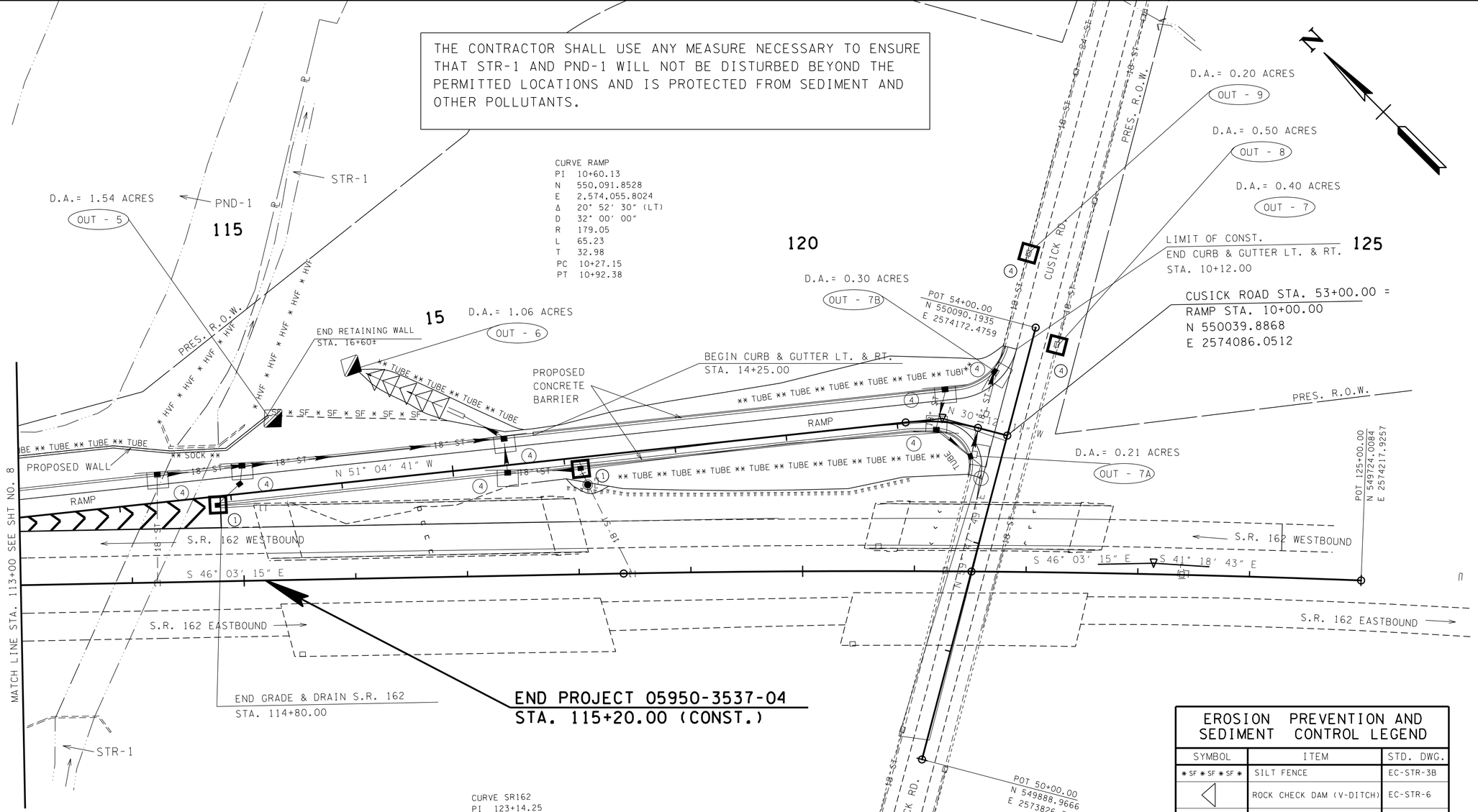
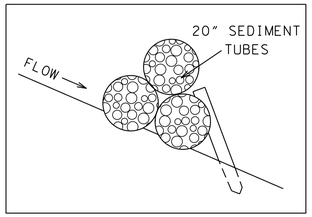


CURVE RAMP
PI 10+60.13
N 550,091.8528
E 2,574,055.8024
Δ 20° 52′ 30″ (LT)
D 32° 00′ 00″
R 179.05
L 65.23
T 32.98
PC 10+27.15
PT 10+92.38

CURVE SR162
PI 123+14.25
N 549,866.3489
E 2,574,097.6486
Δ 4° 44′ 32″ (RT)
D 0° 30′ 00″
R 11,459.16
L 948.44
T 474.49
PC 118+39.77
PT 127+88.20

CATCH BASIN FILTER ASSEMBLIES SHALL BE INSTALLED ON CATCH BASINS AT STA. 17+12± LT. AND STA. 13+85± LT. UNTIL FINAL INLET PROTECTION CAN BE INSTALLED.



TRIPLE STACKED SEDIMENT TUBES DETAIL

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

	SYMBOL	ITEM	STD. DWG.
	* SF * SF * SF *	SILT FENCE	EC-STR-3B
		ROCK CHECK DAM (V-DITCH)	EC-STR-6
		ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
*	SFB	SEDIMENT FILTER BAG	EC-STR-2
	D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
	4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
		TEMPORARY BERM	EC-STR-27
*	** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37

* TO BE FIELD LOCATED BY ENGINEER
* 20" TUBES TO BE TRIPLE STACKED. SEE DETAIL.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

PAUL THOMAS BEZBE
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMERCE
No. 102265
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN (STAGE 2)

STA.113+00 TO STA.115+20
SCALE: 1"= 50'

7-MAR-2014 09:09
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	05950-3537-04	10

BLOUNT CO. S.R. 162

NOTES

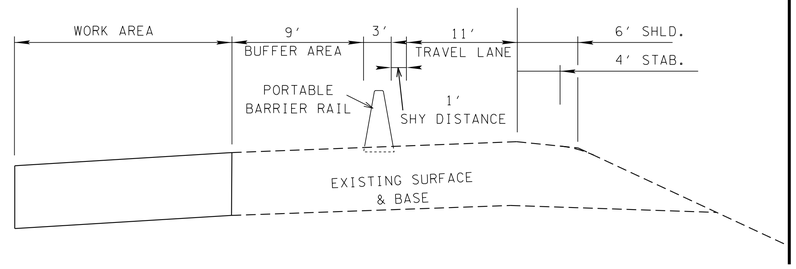
(1) THE CONSTRUCTION SIGNING PLANS ARE TO SERVE AS A GUIDE ONLY. OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION. SEE STD. DWGS. T-WZ-10, T-WZ-11, T-WZ-12.

(2) THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

(3) THE CONTRACTOR IS TO MAINTAIN ACCESS TO ALL LOCAL PROPERTY OWNERS.

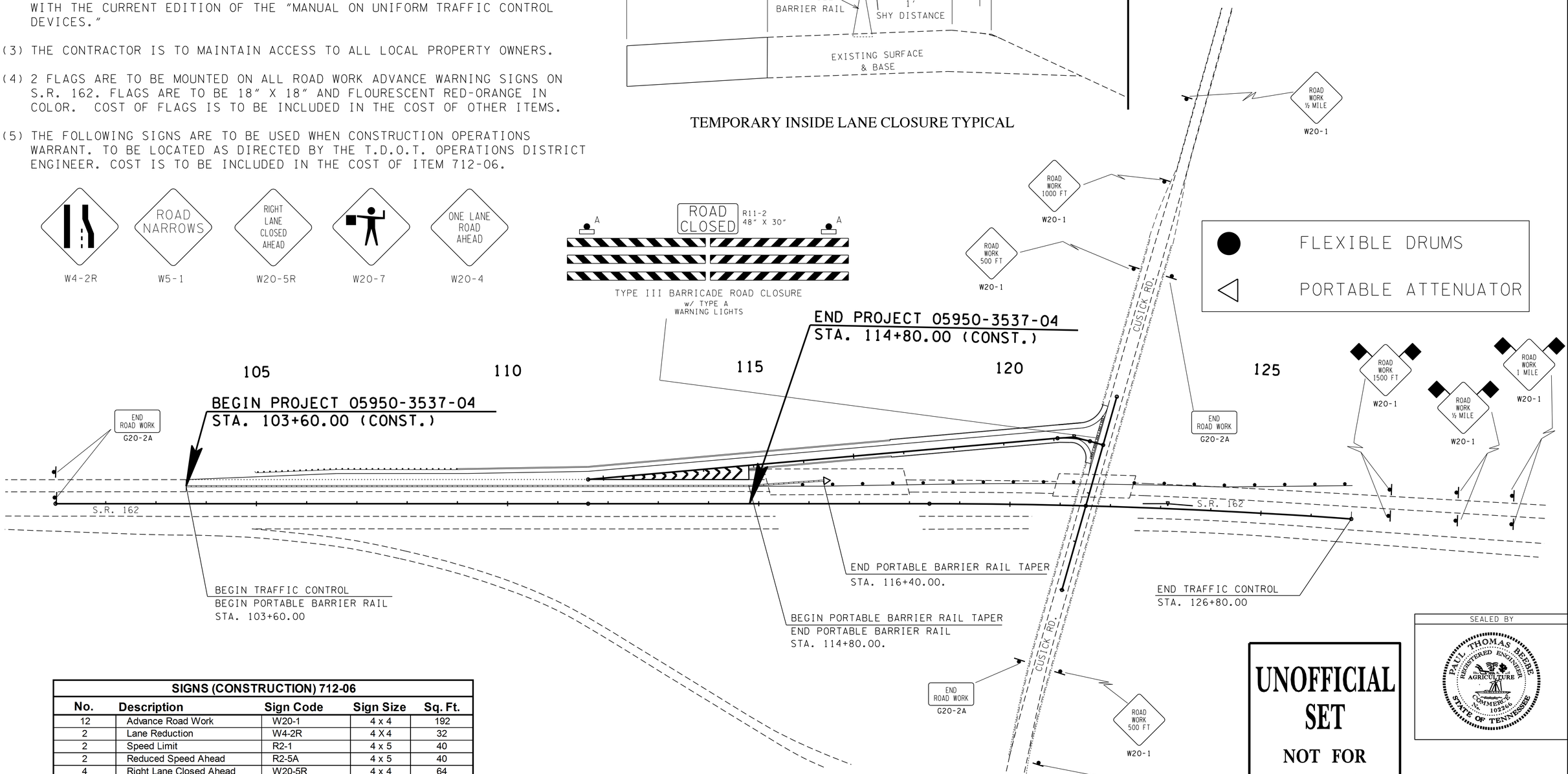
(4) 2 FLAGS ARE TO BE MOUNTED ON ALL ROAD WORK ADVANCE WARNING SIGNS ON S.R. 162. FLAGS ARE TO BE 18" X 18" AND FLOURESCENT RED-ORANGE IN COLOR. COST OF FLAGS IS TO BE INCLUDED IN THE COST OF OTHER ITEMS.

(5) THE FOLLOWING SIGNS ARE TO BE USED WHEN CONSTRUCTION OPERATIONS WARRANT. TO BE LOCATED AS DIRECTED BY THE T.D.O.T. OPERATIONS DISTRICT ENGINEER. COST IS TO BE INCLUDED IN THE COST OF ITEM 712-06.



TEMPORARY INSIDE LANE CLOSURE TYPICAL

TYPE III BARRICADE ROAD CLOSURE w/ TYPE A WARNING LIGHTS



SIGNS (CONSTRUCTION) 712-06				
No.	Description	Sign Code	Sign Size	Sq. Ft.
12	Advance Road Work	W20-1	4 x 4	192
2	Lane Reduction	W4-2R	4 X 4	32
2	Speed Limit	R2-1	4 x 5	40
2	Reduced Speed Ahead	R2-5A	4 x 5	40
4	Right Lane Closed Ahead	W20-5R	4 x 4	64
2	Road Narrows	W5-1	4 x 4	32
2	Be Prepared to Stop	W3-4	3 x 3	18
4	End Road Work	G20-2	4 x 2	32
2	One Lane Road Ahead	W20-4	4 x 4	32
2	Flagger Ahead	W20-7	4 x 4	32
2	Road Closed	R-11-2	4 x 2.5	20
			TOTAL:	534

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DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA. 103+60 TO STA. 126+80

SCALE: 1"=100'

7-MAR-2014 09:09
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	05950-3537-04	10A

BLOUNT CO. S.R. 162

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.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

7-MAR-2014 09:09
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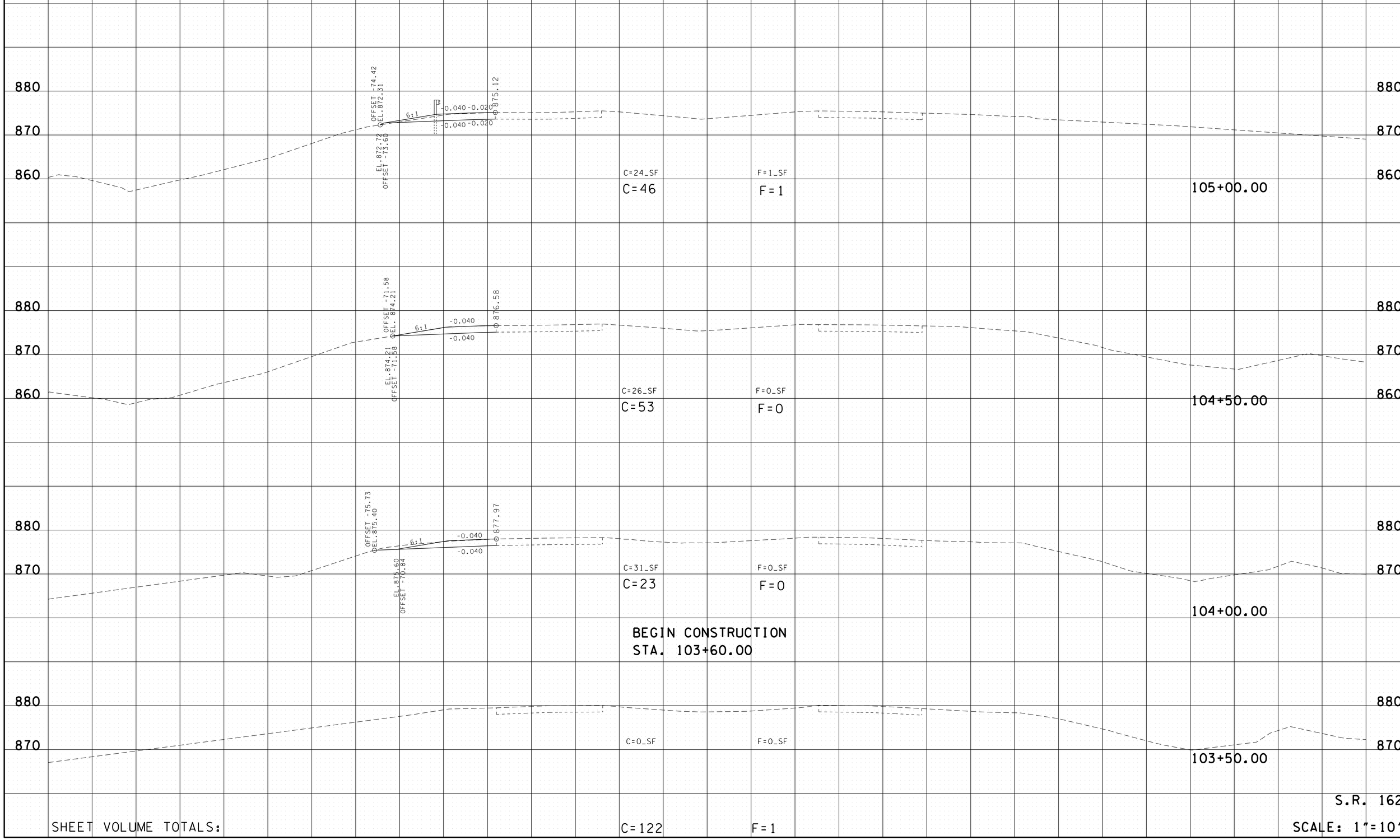
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	10
CONST.	2014	05950-3537-04	11

BLOUNT CO. S.R. 162



SHEET VOLUME TOTALS: C=122 F=1

S.R. 162

SCALE: 1"=10'

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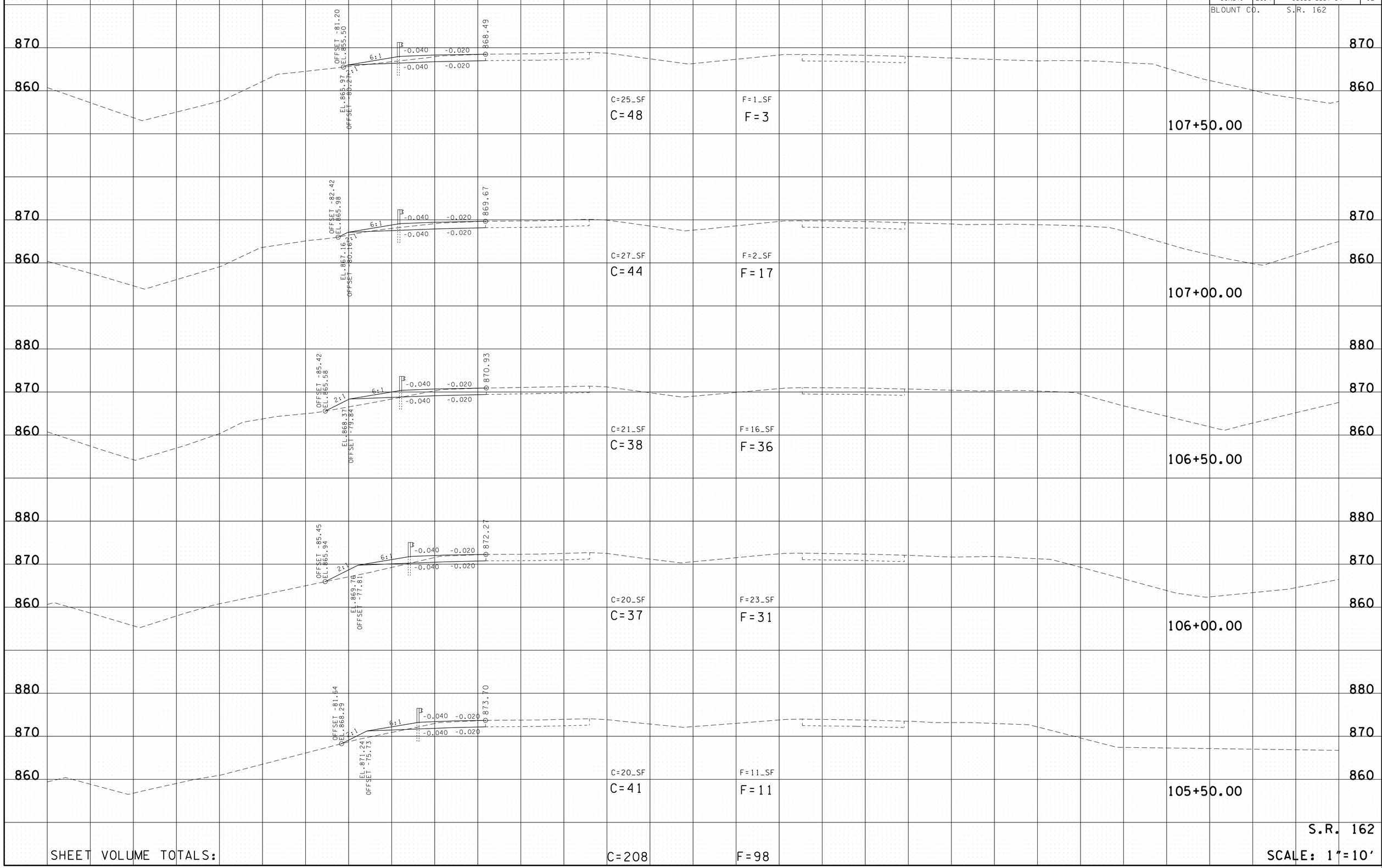
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	11
CONST.	2014	05950-3537-04	12

BLOUNT CO. S.R. 162



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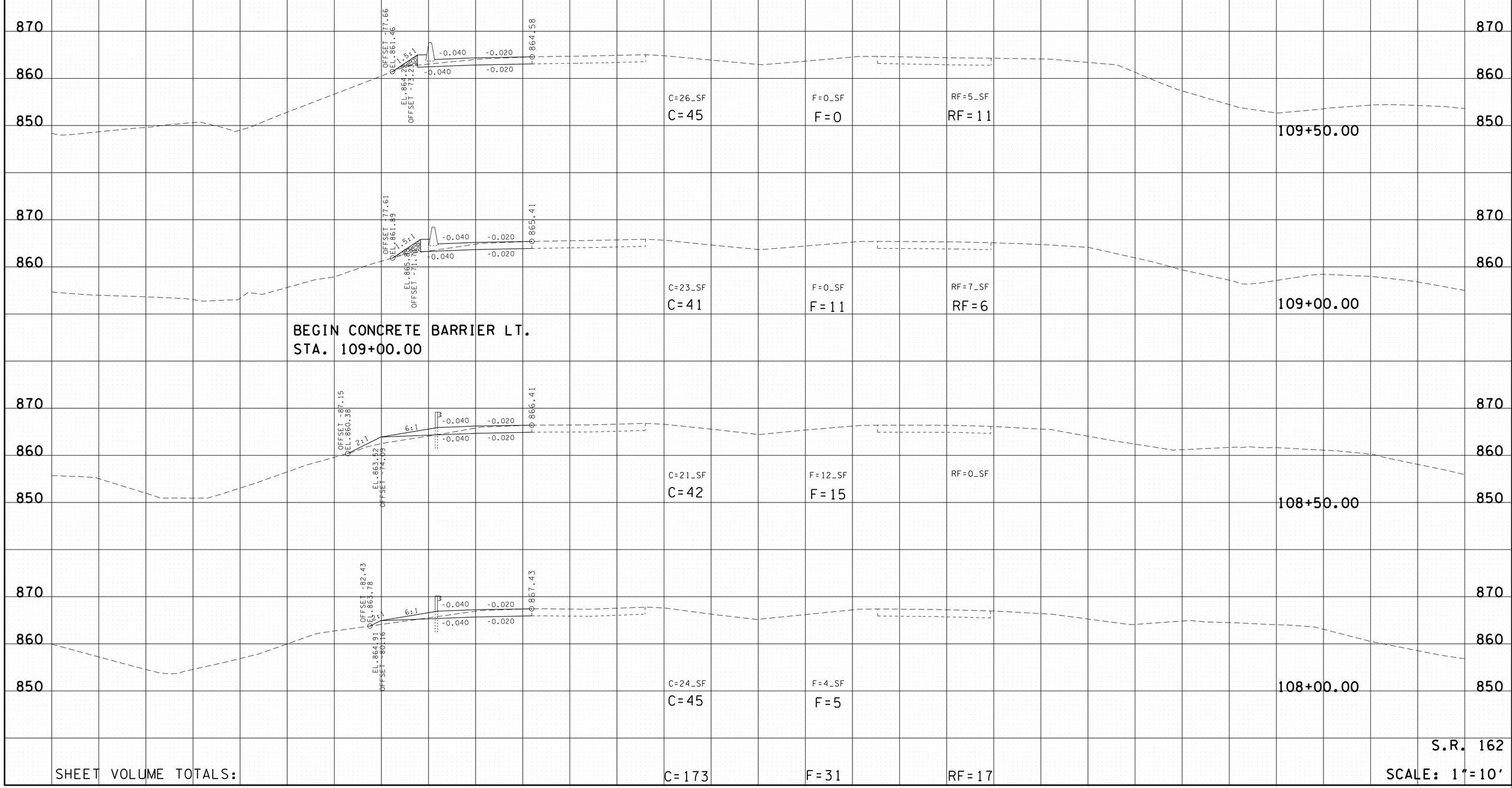
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	12
CONST.	2014	05950-3537-04	13

BLOUNT CO. S.R. 162



SHEET VOLUME TOTALS: C=173 F=31 RF=17

S.R. 162

SCALE: 1"=10'

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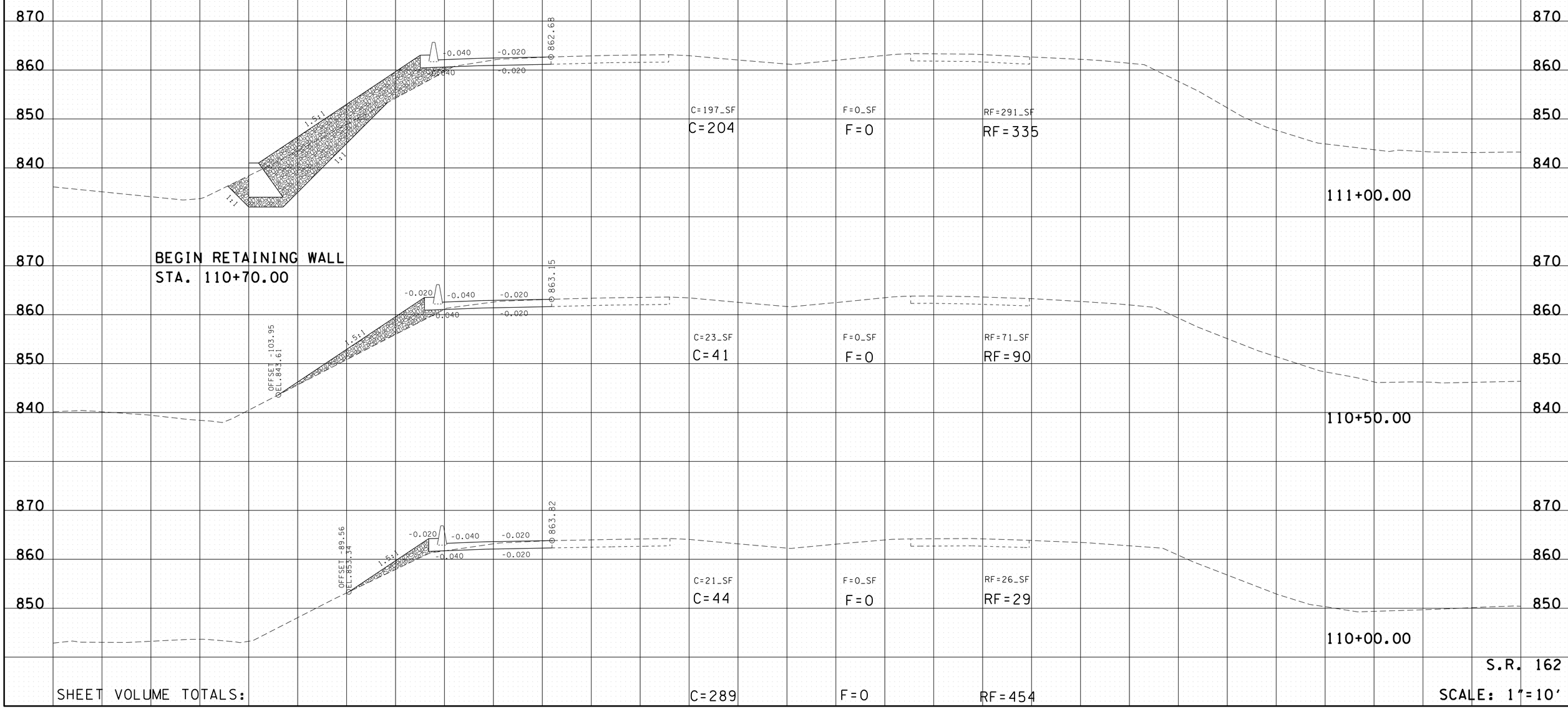
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	13
CONST.	2014	05950-3537-04	14

BLOUNT CO. S.R. 162

SEE SHT. 2F FOR RETAINING WALL DETAILS.



SHEET VOLUME TOTALS: C=289 F=0 RF=454

S.R. 162

SCALE: 1"=10'

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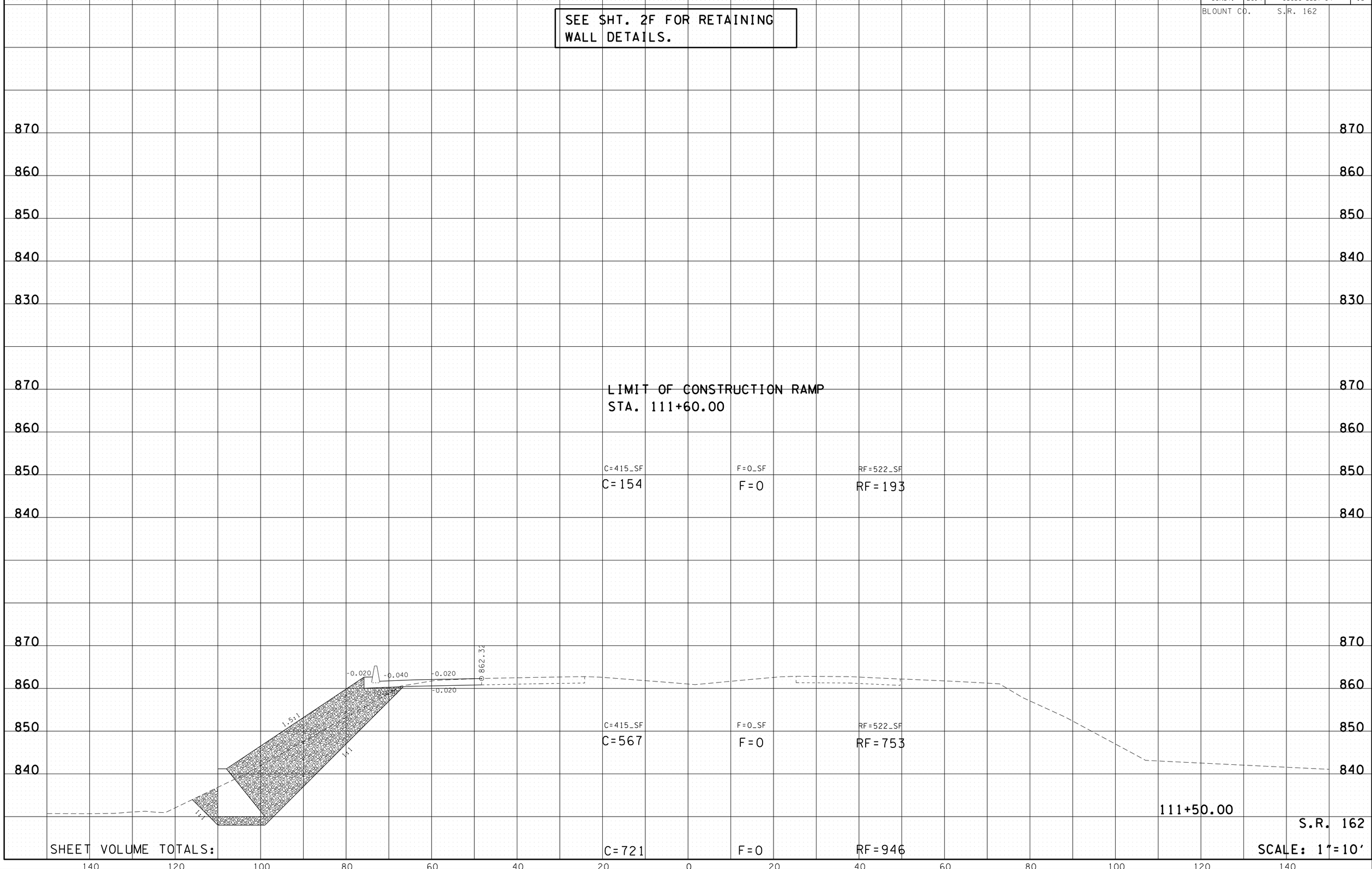
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	14
CONST.	2014	05950-3537-04	15

BLOUNT CO. S.R. 162



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TYPE	YEAR	PROJECT NO.	SHEET NO.
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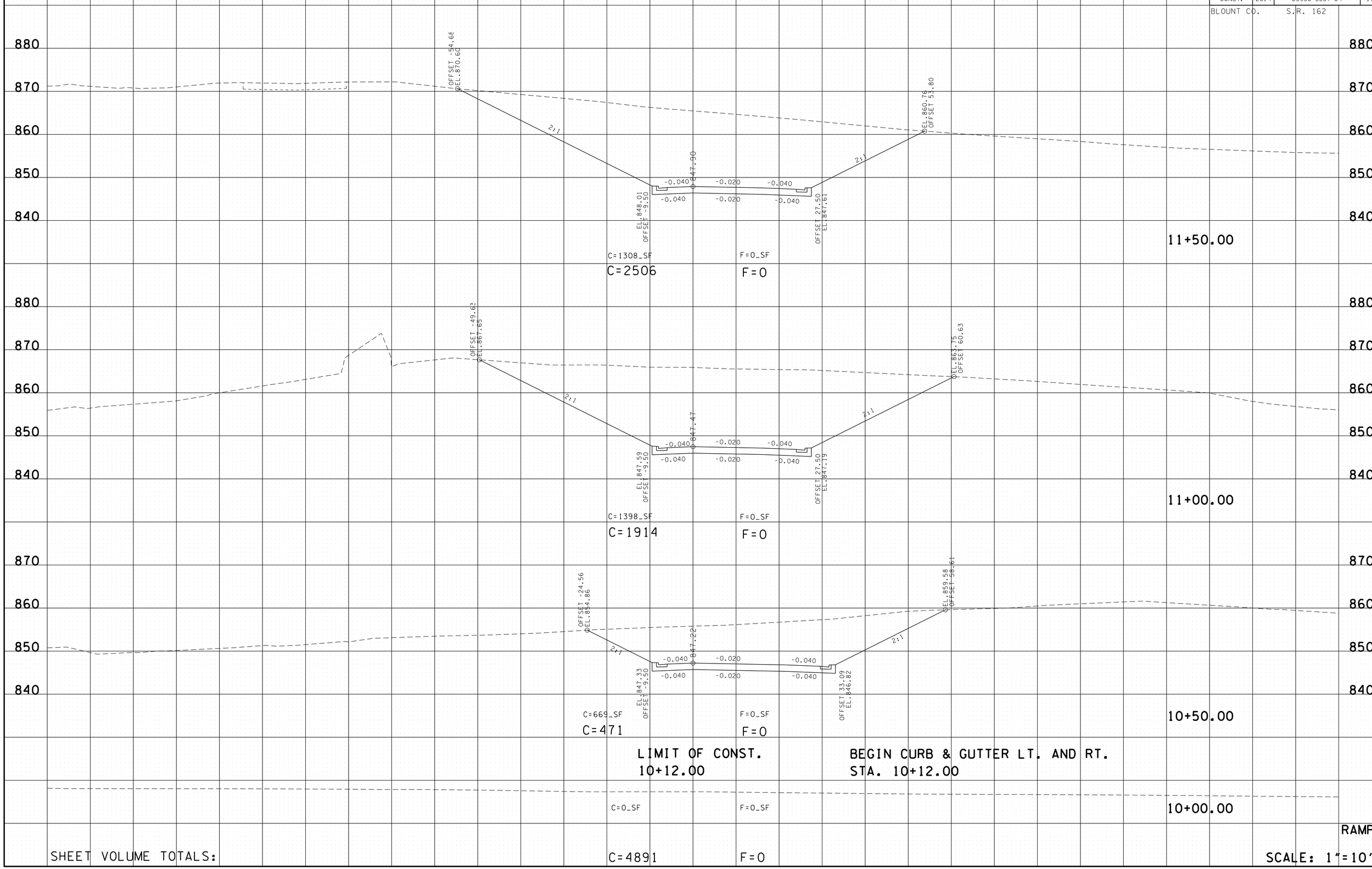
CONST.	2014	05950-3537-04	16

BLOUNT CO. S.R. 162



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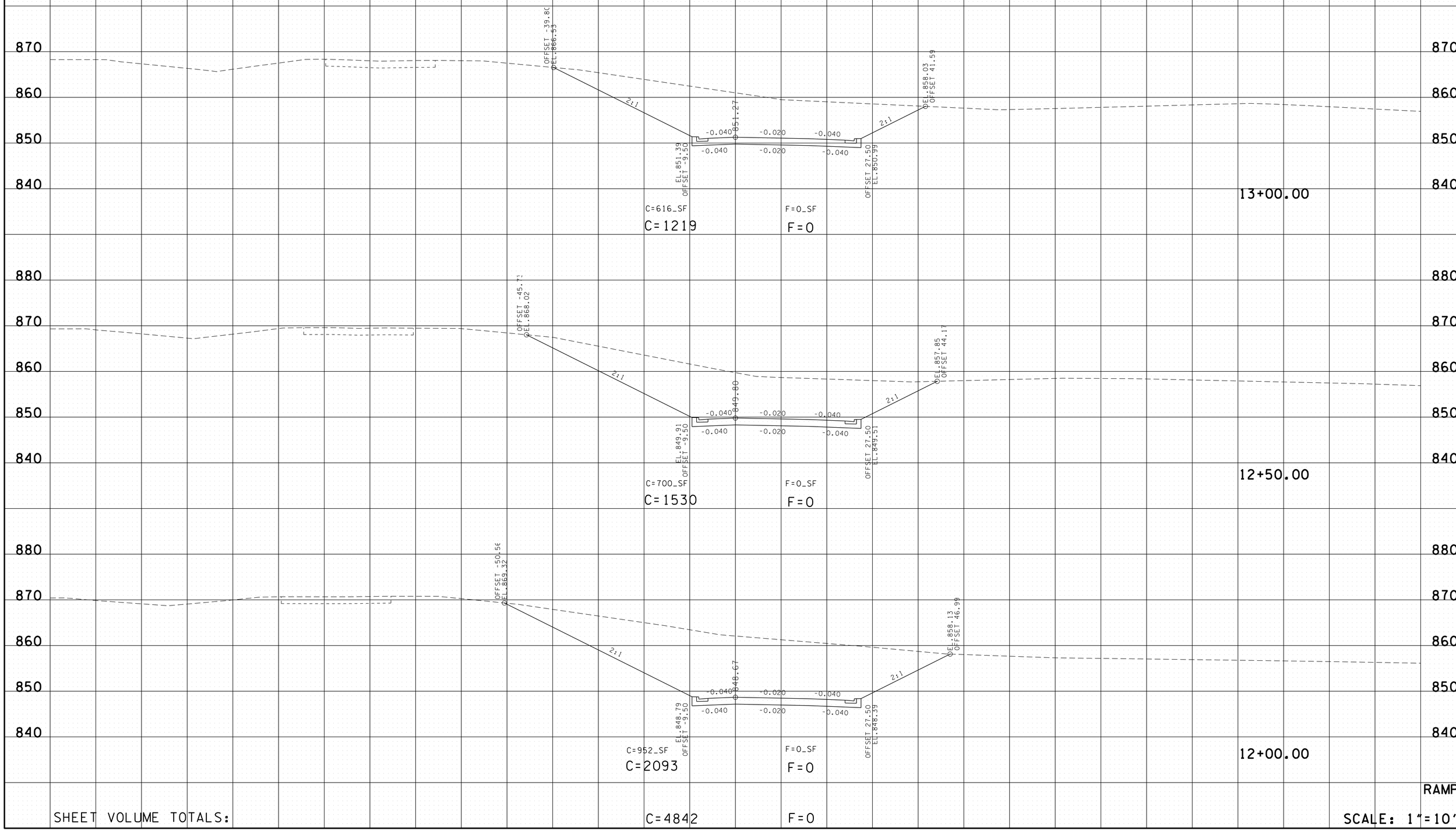
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	18
CONST.	2014	05950-3537-04	17

BLOUNT CO. S.R. 162



SHEET VOLUME TOTALS: C=4842 F=0

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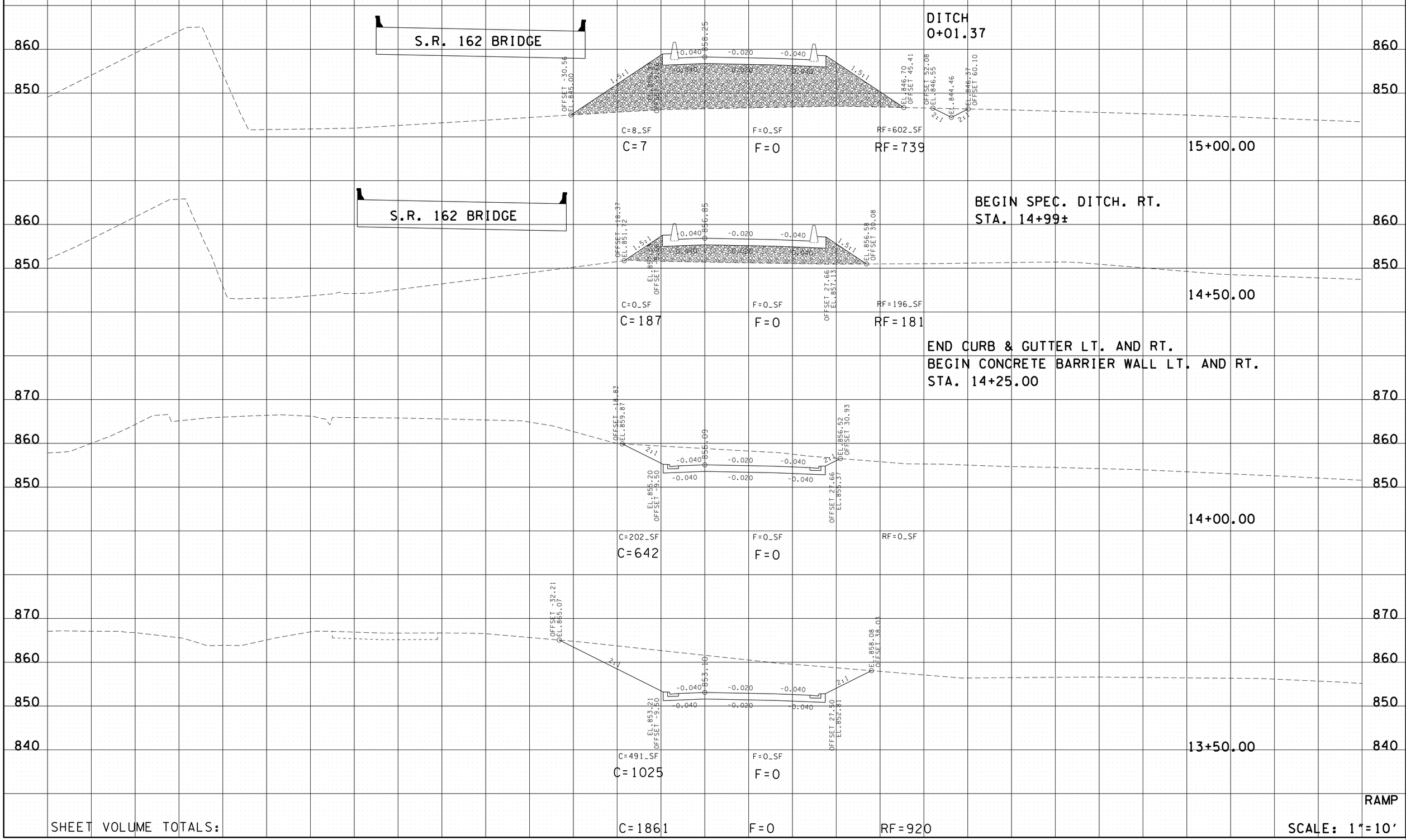
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	19
CONST.	2014	05950-3537-04	18

BLOUNT CO. S.R. 162



SHEET VOLUME TOTALS: C=1861 F=0 RF=920

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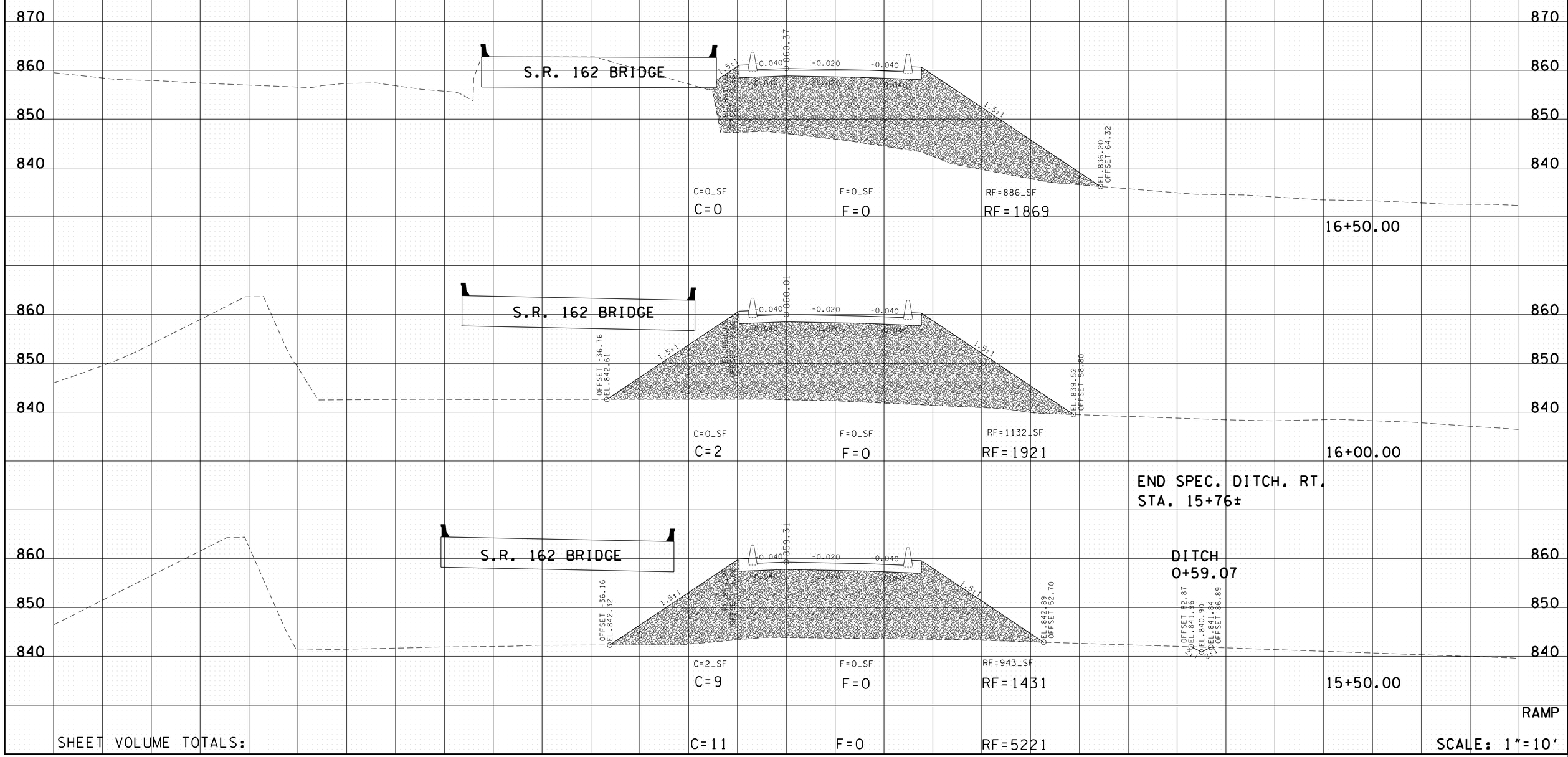
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	20
CONST.	2014	05950-3537-04	19

BLOUNT CO. S.R. 162



SHEET VOLUME TOTALS: C=11 F=0 RF=5221

RAMP

SCALE: 1"=10'

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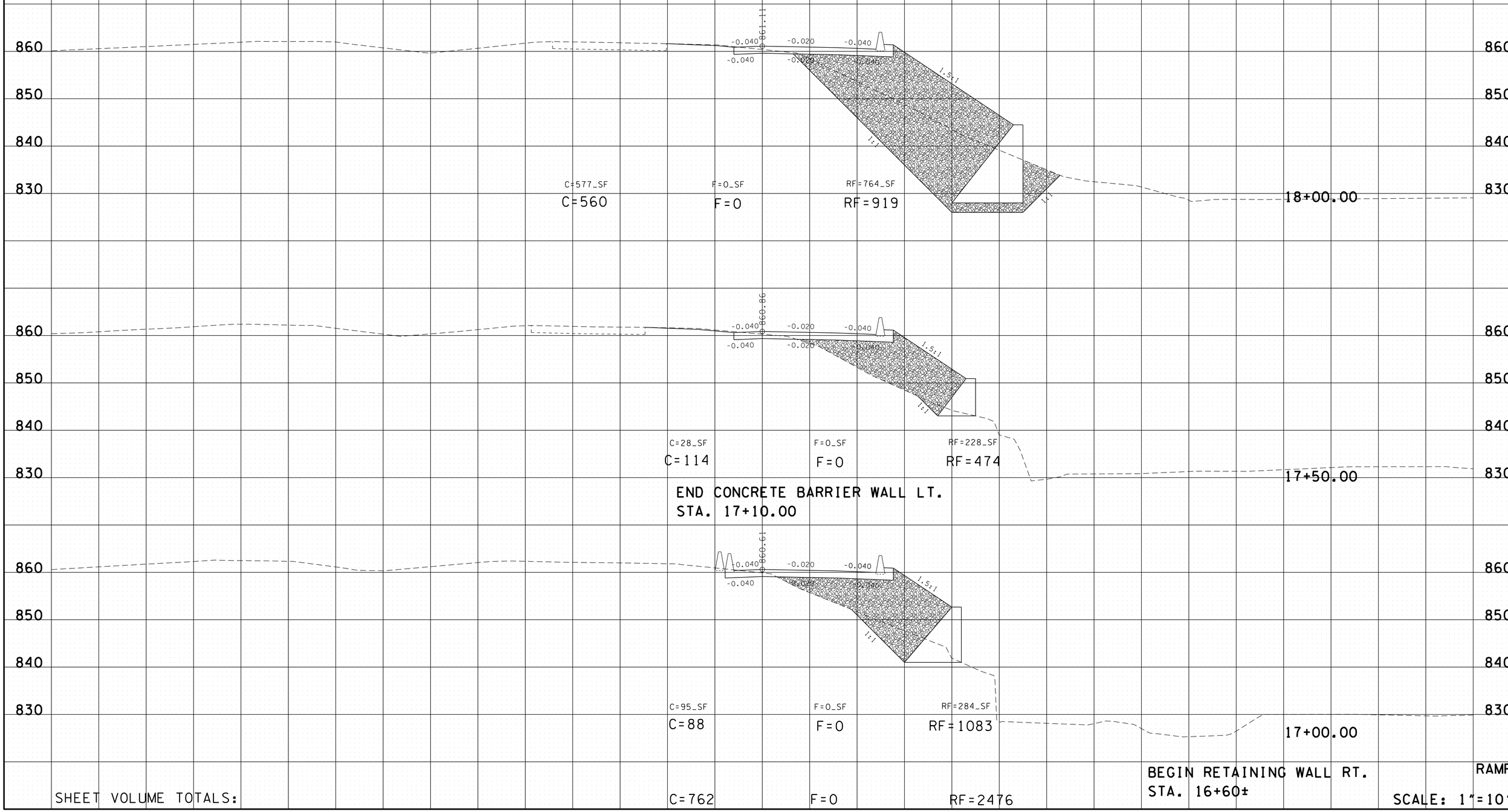
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	21
CONST.	2014	05950-3537-04	20

BLOUNT CO. S.R. 162

SEE SHT. 2F FOR RETAINING WALL DETAILS.



SHEET VOLUME TOTALS: C=762 F=0 RF=2476

RAMP

SCALE: 1"=10'

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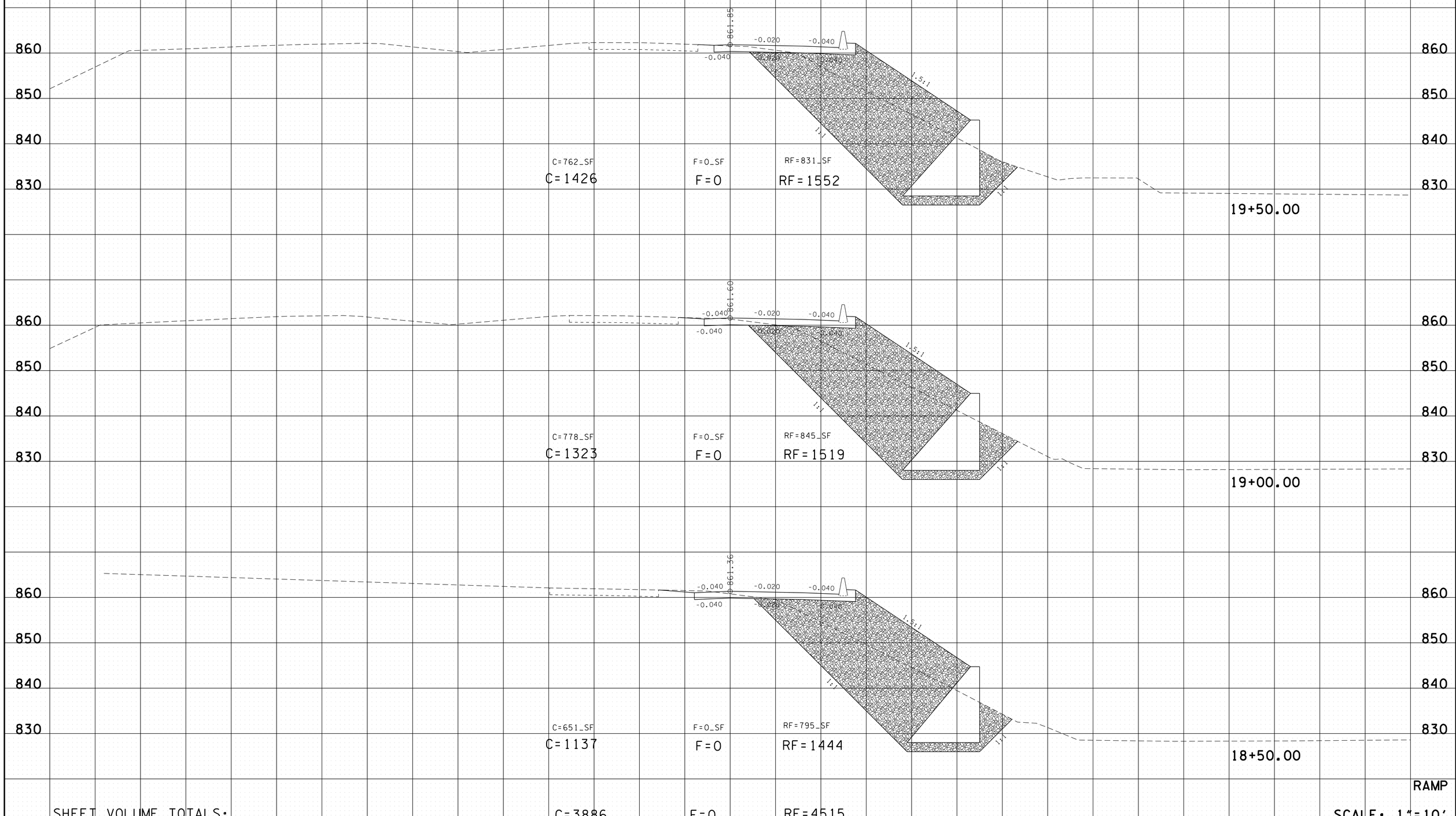
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	22
CONST.	2014	05950-3537-04	21

BLOUNT CO. S.R. 162

SEE SHT. 2F FOR RETAINING WALL DETAILS.



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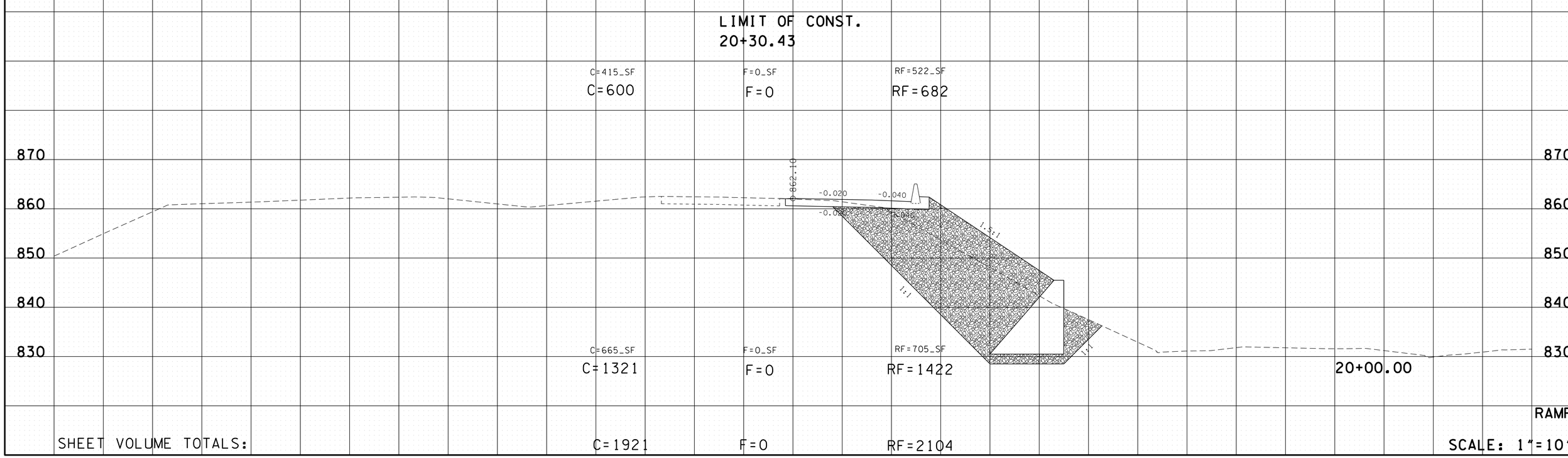
TYPE	YEAR	PROJECT NO.	SHEET NO.
UTIL.	2014	05950-1537-04	23
CONST.	2014	05950-3537-04	22

BLOUNT CO. S.R. 162

SEE SHT. 2F FOR RETAINING WALL DETAILS.



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