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

Index Of Sheets

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.	STP-50(31)	
STATE PROJ. NO.	26150-3201-14	

FRANKLIN COUNTY

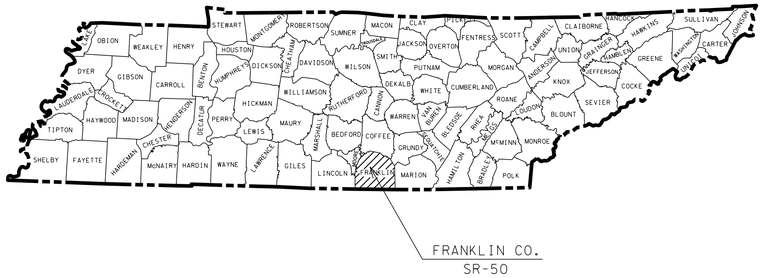
STATE ROUTE 50

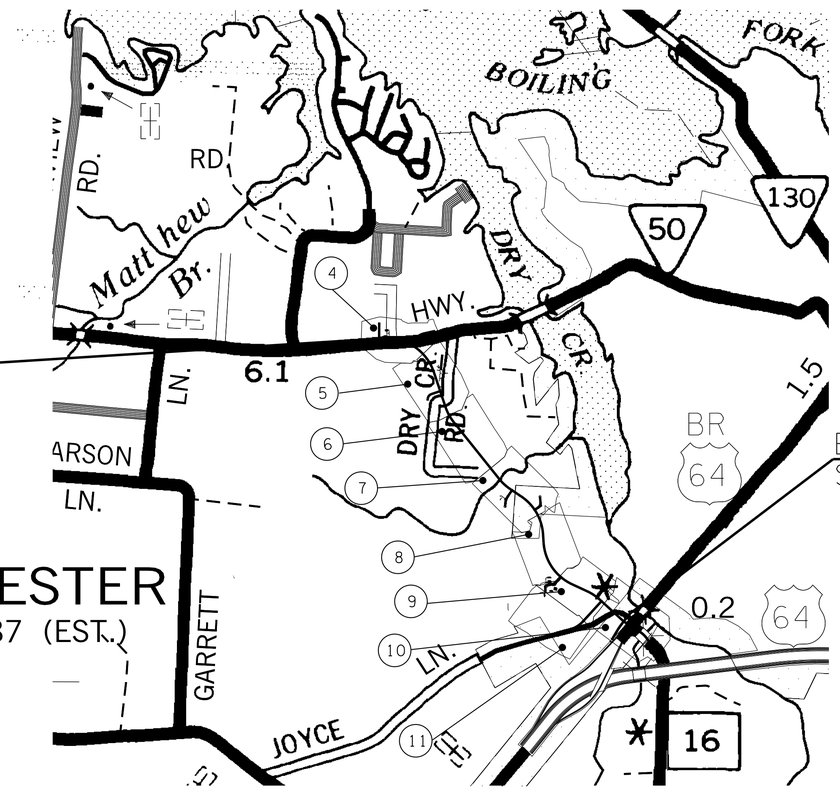
SR-50 IN WINCHESTER TO SR-15(US-64)

GRADE, DRAIN, BASE, PAVE, GUARDRAIL, PAVEMENT MARKINGS AND STRUCTURES

CONSTRUCTION

STATE HIGHWAY NO. 50 F.A.H.S. NO. 64





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NO EXCLUSIONS
NO EQUATIONS

26150-3201-14
BEGIN PROJ. NO. STP-50(31)
STA. 12+00.00 (CONST.)

26150-3201-14
END PROJ. NO. STP-50(31)
STA. 89+10.28 (CONST.)

WINCHESTER
POP. 6,687 (EST.)

SCALE: 1"= ± 1500'

0 1500' 3000' 4500'

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

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 C.E. MANAGER 1 Robert W. Rodgers, P.E.

DESIGNER Jason M. Ingram, P.E. CHECKED BY Gregory Taylor, P.E.

P.E. NO. 26150-1201-14

PIN NO. 105769.00

ROADWAY LENGTH	1.450 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.010 MILES
PROJECT LENGTH	1.460 MILES

TRAFFIC DATA	
ADT (2013)	2270
ADT (2033)	2950
DHV (2033)	295
D	65 - 35
T (ADT)	2 %
T (DHV)	1 %
V	50 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	1A

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

INDEX

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NO PROJECT COMMITMENTS

STANDARD ROADWAY DRAWINGS

STANDARD BRIDGE DRAWINGS

DWG. NO.	REV.	DESCRIPTION
BRIDGE APPURTENANCES ENGLISH (LRFD BOX CULVERTS)		
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTION AND DETAILS
STD-17-6		TYPICAL ELEVATIONS
STD-17-7		CURB, RAIL & EDGE BEAM DETAILS - SKEW NOT LESS THAN 45 DEG
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-13		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16		WINGWALL DESIGN SECTION
STD-17-17		BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-17-23		SIDEWALK AND MISCELLANEOUS DETAILS
STD-17-24		WARPED SLOPE DETAIL
STD-17-29		PRECAST BOX CULVERT DETAILS
STD-17-80		BOX BRIDGE, 2 BARRELS AT 14', CLEAR HTS. 8' - 11', 0 - 60' FILL
STD-17-105		BOX BRIDGE, 3 BARRELS AT 18', CLEAR HTS. 6' - 8', 0 - 60' FILL
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-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
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-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS

DWG. NO	REV.	DESCRIPTION
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-6A	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
RD01-TS-8	06-15-12	SHARED USE PATH TYPICAL SECTIONS
RD01-TS-9	06-15-12	DESIGN STANDARDS FOR SINGLE LANE URBAN AND RURAL ROUNDABOUTS
DRAINAGE - CULVERTS AND ENDWALL		
D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE, 36" TO 78"
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" CONCRRETE ENDWALL CROSS DRAIN
D-PE-24B		24" CONCRETE ENDWALL CROSS DRAIN
D-PE-36A	06-14-13	36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36B		36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48A	06-14-13	48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48B		48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PO-1	05-27-01	STANDARD OVAL & FLAT BASE CONCRETE CULVERT PIPE
DRAINAGE-CATCH BASINS AND MANHOLES		
D-CB-12LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN
D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RB	03-11-14	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RC	03-11-14	STANDARD PRECAST 84" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN

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INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	1B

D-CB-39RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 39 CATCH BASIN
D-CB-39S	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-39SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-39SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-39SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 39 CATCH BASIN
D-JBS-2	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX

ROADWAY AND PAVEMENT APPURTENANCES

RP-D-15	07-15-08	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	07-15-08	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-H-3	06-04-13	HANDICAP RAMP AND TRUNCATED DOME SURFACE DETAIL
RP-H-4	06-04-13	PERPENDICULAR CURB RAMP
RP-H-6	04-13-11	MEDIAN CROSSING
RP-H-8	06-04-13	PERPENDICULAR CURB RAMP TYPE 2
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 TYPES 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	03-20-91	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-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-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
RP-R-2		STANDARD CONSTRUCTION DETAILS FOR ROUNDABOUTS
RP-S-7	06-04-13	DETAILS FOR STANDARD CONCRETE SIDEWALKS

SAFETY APPURTENANCES AND FENCE

S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-F-10	06-01-09	STANDARD RIGHT-OF-WAY STOCK FENCE
S-F-10B	05-14-10	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-RP-2	01-19-99	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
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-GR31-1		W-BEAM GUARDRAIL
S-GR31-2		MEDIAN DIVIDER GUARDRAIL
S-GRS-1		SPECIAL CASE LONG SPAN GUARDRAIL, ONE SPAN OMITTED
S-GRS-2		SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRC-1		GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRC-2	04-11-14	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW-VOLUME LOCAL ROADS (ADT<= 400)
S-GRC-3		MEDIAN DIVIDER GUARDRAIL TRANSITION TO CONCRETE MEDIAN BARRIER
S-GRT-3D		TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GRT-4		TYPE 13 GUARDRAIL TERMINAL (TRAILING END)
S-GRA-3		GUARDRAIL ANCHOR FOR TYPE 12, 13 AND IN-LINE TERMINALS
S-GRT-2	06-30-14	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRT-2R		EARTH PAD FOR TYPE 38 TERMINAL (RETROFIT)

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T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-10	06-15-12	SIGNING AND PAVEMENT MARKINGS FOR SHARED-USE PATHS
T-M-11	10-24-13	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AND ROUTES ON RURAL ROADS
T-M-12	10-10-13	SIGNING AND PAVEMENT MARKINGS FOR URBAN BICYCLE LANES
T-M-13		SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES
T-M-14	11-01-11	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AT INTERSECTIONS
T-M-15A	11-01-11	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-16	11-01-11	ASPHALT SHOULDER RUMBLE STRIPE 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-6	02-12-91	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS
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 MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
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	06-15-14	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	11-01-11	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-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 STEEL SIGN SUPPORTS
T-S-23A	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY SQUARE TUBE SIGN SUPPORT
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
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

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
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-11	08-01-12	CULVERT PROCTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STR-40		CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-46		CATCH BASIN FILTER ASSEMBLY (TYPE 6)
EC-STR-46A		CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS
EL-W-2	05-27-01	STANDARD GRAVITY-TYPE RETAINING WALLS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
2), 13)	202-04.50	REMOVAL OF STRUCTURES (2@10'x8' CONCR. BOX CULV.(75 SKEW, SR-16 STA.10+17)	LS	1
	202-13	WATER WELL ABANDONMENT	EACH	1
3)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	83760
	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	23955
	203-03.51	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	29963
29)	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	1739
	203-05	UNDERCUTTING	C.Y.	16845
	203-06	WATER	M.G.	606
	204-08	FOUNDATION FILL MATERIAL	C.Y.	127
4)	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	208
14)	209-05	SEDIMENT REMOVAL	C.Y.	1433
4)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	25939
4)	209-08.07	ROCK CHECK DAM PER	EACH	196
4)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	70
4), 5)	209-09.01	SANDBAGS	BAG	934
4),10)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	7
4)	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	4
4)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	102
4)	209-40.32	CATCH BASIN PROTECTION (TYPE D)	EACH	1
4)	209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	1
4)	209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	4
4)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	74
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	1464
1)	303-01.03	GRANULAR BACKFILL (RETAINING WALLS)	TON	99
21)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	5
1)	303-10.03	MINERAL AGGREGATE (SIZE 68)	TON	97
19), 20)	303-20	PEA GRAVEL	TON	24
16)	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	2
1),30)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	197
	604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	723
	604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	96107
	604-15.01	PORTLAND CEMENT GROUT	C.Y.	100
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	173
	607-03.05	18" CONCRETE PIPE CULVERT(CLASS IV)JACKED-IN-PLACE	L.F.	55
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	208
	607-05.05	24" CONCRETE PIPE CULVERT(CLASS IV)JACKED-IN-PLACE	L.F.	230
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	50
	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	166
	607-16.01	23"X 14" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	90
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	748
	607-39.06	42" PIPE CULVERT (SIDE DRAIN)	L.F.	24
	611-02.11	JUNCTION BOX, TYPE 2	EACH	1
	611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	4
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	5
	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
	611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	4
	611-07.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-07.69	48IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
	611-07.70	48IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
	611-07.71	48IN ENDWALL (CROSS DRAIN) 6:1	EACH	2
	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	2
	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	2
	611-39.02	CATCH BASINS, TYPE 39, > 4' - 8' DEPTH	EACH	1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	104
	621-03.06	42" TEMPORARY DRAINAGE PIPE	L.F.	302
30)	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	12889
30)	701-02.03	CONCRETE HANDICAP RAMP	S.F.	1400
30)	701-03	CONCRETE MEDIAN PAVEMENT	C.Y.	60
30)	702-01	CONCRETE CURB	C.Y.	14
30)	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	253
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	25
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	1462
	705-04.03	GUARDRAIL TERMINAL (TYPE 13)	EACH	8
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	16
	707-01.01	CHAIN-LINK FENCE (4-FOOT)	L.F.	140
	707-01.02	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 4')	EACH	2
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1387
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	102
4)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	907
4),15)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	715
	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	173
23)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	105
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	360
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	1771
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	125
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	2
	712-06	SIGNS (CONSTRUCTION)	S.F.	478
24)	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	240
	712-08.03	ARROW BOARD (TYPE C)	EACH	1
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y.	3
	713-01.02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	LB.	914
	713-06	STEEL I-BEAMS & WF-BEAMS(BREAKAWAY) SIGN SUPPORT	LB.	3056
	713-11.01	"U" SECTION STEEL POSTS	LB.	394
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	2147
	713-11.21	P POST SLIP BASE	EACH	34
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	539
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	171
	713-14	EXTRUDED ALUMINUM PANEL SIGNS	S.F.	558
18)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	713-16.07	END OF ROADWAY SIGN AND SUPPORT	EACH	2
8), 9)	716-01.11	RAISED PVMT MARKERS (BI-DIRECTIONAL) (1 COLOR LENS)	EACH	47
	716-01.21	SNWPLWBLE PVMT MRKRS (BI-DIR)(1 COLOR)	EACH	250
	716-01.22	SNWPLWBLE PVMT MRKRS (MONO-DIR)(1 COLOR)	EACH	8
17)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	119
17)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	263
17)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	19
17)	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	324
17)	716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	281
17)	716-03.09	PLASTIC WORD PAVEMENT MARKING (YIELD)	EACH	4
17)	716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	8
17)	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	27
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	1.0
17)	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	146
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	10.19
	716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	114
	716-12.05	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.	94

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ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2A

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

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	716-12.08	ENHANCED FLAT LINE THERMO (12IN BARRIER LINE)	L.F.	39
	717-01	MOBILIZATION	LS	1
	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	2307
22)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	112449
	740-11.03	TEMPORARY SEDIMENT TUBE 18IN (DESCRIPTION)	L.F.	49286
31),32)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	6927
33)	801-01	SEEDING (WITH MULCH)	UNIT	103
31)	801-02	SEEDING (WITHOUT MULCH)	UNIT	4162
11)	801-03	WATER (SEEDING & SODDING)	M.G.	823
	801-07	SEED (SUPPLEMENTAL APPLICATION)	LB.	23
	801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	TON	1
19)	802-03.01	SHRUBS (YUCCA FILAMENTOS)	EACH	3
19)	802-03.02	SHRUBS (BUXUS MICROPHILLA)	EACH	64
19)	802-04.70	GROUND COVER (JUNIPERUS HORIZONTALIS)	EACH	300
7)	802-12.02	ACER RUBRUM (RED MAPLE SEEDLNG B.R.)	EACH	9
7)	802-12.03	ACER SACCHARINUM (SILVER MAPLE SEEDLNG B.R.)	EACH	8
7)	802-12.20	NYSSA AQUATICA (SWAMP TUPELO SEEDLNG B.R.)	EACH	8
7)	802-12.26	PLATANUS OCCIDENTALIS (SYCAMORE SEEDLNG B.R.)	EACH	8
7)	802-12.38	QUERCUS PHELLOS (WILLOW OAK SEEDLNG B.R.)	EACH	8
	803-01	SODDING (NEW SOD)	S.Y.	67594
	805-01.02	TURF REINFORCEMENT MAT (CLASS II)	S.Y.	842
34)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	1253
12)	806-02.03	PROJECT MOWING	CYCL	6
		ALTERNATE AA1		
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	60305
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	5096
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	291
	307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S	TON	7
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	220
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	190
6)	309-01.01	MINERAL AGGREGATE (A-CBC)	TON	63
25)	309-01.02	PORTLAND CEMENT (A-CBC)	TON	2
	309-02	BITUMINOUS MATERIAL (A-CBC)	TON	1
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	73
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	84
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	73
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	473
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	3090
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	19
		ALTERNATE AA2		
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	60117
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	4976
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	291
	307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S	TON	7
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	220
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	190
6)	313-03	TREATED PERMEABLE BASE	S.Y.	940
26)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	72
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	83
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	71
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	473
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	3028
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	19
	501-01	PORTLAND CEMENT CONCRETE PAVEMENT(REPLACEMENT)	S.Y.	940

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
		ALTERNATE AA3		
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	39717
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	5096
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	291
	307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S	TON	7
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	220
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	190
6)	309-01.01	MINERAL AGGREGATE (A-CBC)	TON	7805
27)	309-01.02	PORTLAND CEMENT (A-CBC)	TON	301
	309-02	BITUMINOUS MATERIAL (A-CBC)	TON	21
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	73
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	84
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	73
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	473
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	3090
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	19
		ALTERNATE AA4		
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	39529
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	4976
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	291
	307-02.02	ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S	TON	7
	307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	220
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	190
	309-01.01	MINERAL AGGREGATE (A-CBC)	TON	7742
6)	309-01.02	PORTLAND CEMENT (A-CBC)	TON	299
28)	309-02	BITUMINOUS MATERIAL (A-CBC)	TON	21
	313-03	TREATED PERMEABLE BASE	S.Y.	940
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	72
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	83
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	71
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	473
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	3028
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	19
	501-01	PORTLAND CEMENT CONCRETE PAVEMENT(REPLACEMENT)	S.Y.	940

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ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2A1

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FILE NO.

FOOTNOTES

1) QUANTITIES INCLUDED FOR RETAINING WALLS.
2) INCLUDES BUT IS NOT LIMITED TO THE REMOVAL OF PIPE, ENDWALLS, WINGWALLS, AND GUARDRAIL.
3) INCLUDES 460 C.Y. FOR EROSION PREVENTION AND SEDIMENT CONTROL.
4) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
5) SANDBAGS OF APPROXIMATELY ONE CUBIC FOOT CAPACITY SHALL BE FILLED APPROXIMATELY 3/4 FULL WITH A MIXTURE OF SAND AND GRAVEL. SACKS SHALL BE OF EITHER COTTON OR JUTE, STANDARD GRADE OF CLOTH. SANDBAGS SHALL BE SECURED BY HOG RINGS, SEWING OR OTHER SUITABLE METHODS.
6) QUANTITIES INCLUDED FOR ALTERNATIVES SEE TABULATED QUANTITIES ON SHT 2P .
7) TO BE USED AT WTL-1. SEE WETLAND MITIGATION PLAN ON SHEET 17Z.
8) MISSING RAISED PAVEMENT MARKERS SHALL BE REPLACED: A) AT LEAST MONTHLY OR B) AT THE INSTRUCTION OF THE ENGINEER.
9) ALL RAISED PAVEMENT MARKERS SHALL BE REMOVED BEFORE PLACEMENT OF THE FINAL PAVEMENT SURFACE. THE COST OF REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR RAISED PAVEMENT MARKERS.
10) INCLUDES ASSEMBLY.
11) INCLUDES 139 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
12) 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.
13) THE REMOVAL ITEMS SHALL BECOME THE PROPERY OF THE CONTRACTOR.
14) INCLUDES 350 C.Y. FOR EROSION PREVENTION AND SEDIMENT CONTROL.
15) INCLUDES 310 TONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
16) SEE SPECIAL PROVISION NO.411D.
17) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
18) REMOVE SIGN & SUPPORT (NO FOOTINGS ON THESE SIGNS) ON APPROXIMATELY TEN SIGNS WITHIN THE GRADING LIMITS OR AS DIRECTED BY THE ENGINEER.
19) QUANTITIES INCLUDED FOR CENTRAL LANDSCAPING AREA OF ROUNDABOUT.
20) QUANTITY CALCULATED FROM (507 C.F. X 96 LBS/C.F.) / (2000 LBS/TON). QUANTITY INCLUDES 680 S.Y. WEED BLOCK FABRIC.
21) QUANTITY INCLUDES 5 TONS FOR SINKHOLE TREATMENT.
22) QUANTITY INCLUDES 45653 S.Y. FOR SINKHOLE TREATMENT.
23) QUANTITY INCLUDES 15 TONS FOR SINKHOLE TREATMENT.
24) QUANTITY INCLUDED WILL BE USED FOR PHASE 1 AND PHASE 2 OF TRAFFIC CONTROL.
25) QUANTITIES INCLUDED WILL INCLUDE SR-50 "ALT A",ROUNDABOUT "ALT C",SR-15,SR-16, AND SIDE ROADS.
26) QUANTITIES INCLUDED WILL INCLUDE SR-50 "ALT A",ROUNDABOUT "ALT D",SR-15,SR-16, AND SIDE ROADS.
27) QUANTITIES INCLUDED WILL INCLUDE SR-50 "ALT B",ROUNDABOUT "ALT C",SR-15,SR-16, AND SIDE ROADS.
28) QUANTITIES INCLUDED WILL INCLUDE SR-50 "ALT B",ROUNDABOUT "ALT D",SR-15,SR-16, AND SIDE ROADS.
29) QUANTITY INCLUDED FOR THE COVERING OF BORROW AND WASTE MATERIALS.
30) FOR ROUNDABOUT DETAILS AND TABULATED QUANTITIES SEE SHEET 2S AND SHEET 10E.
31) QUANTITIES INCLUDES FOR SEEDING OF DISTURBED AREAS.
32) QUANTITY INCLUDES 2765 UNITS FOR EPSC QUANTITIES.
33) QUANTITY INCLUDES 9.5 UNITS FOR TURF REINFORCEMENT MAT AND 93.5 UNITS FOR EXCESS MATERIAL TO BE WASTED AND BORROW MATERIAL.
34) QUANTITY USED FOR SEEDING OF SLOPES AROUND MULTI-BARREL BOX CULVERT FOR EPSC PHASE 1 AND 2.

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ESTIMATED ROADWAY QUANTITIES

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TENNESSEE D.O.T.
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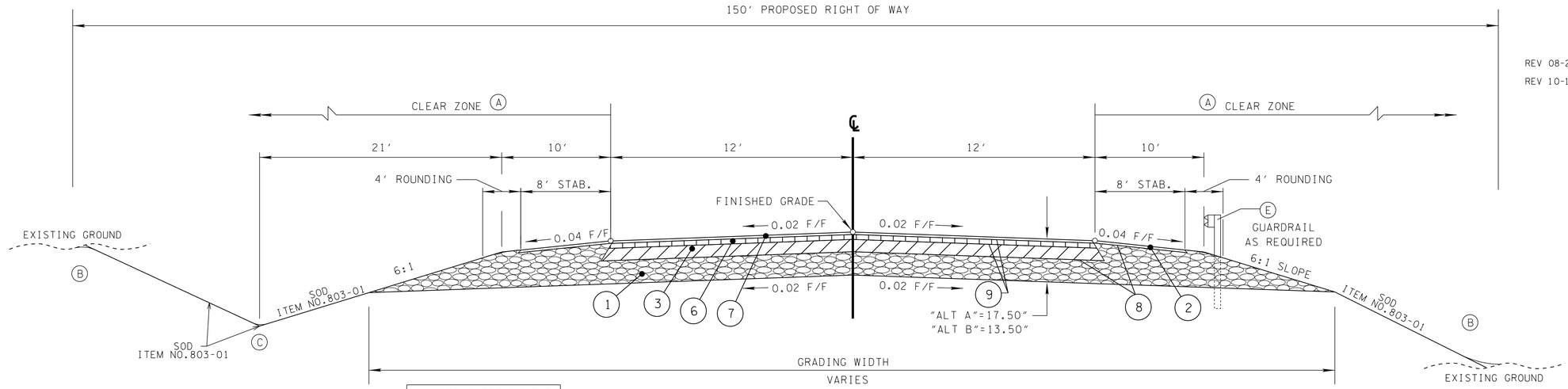
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	2
CONST.	2015	STP-50(31)	2B

REV 08-20-14-REVISED PVMT DESIGN PER PVMT DESIGN REQ.
REV 10-17-14-ADDED SOD PER CFR.



* SEE SHEET 2C FOR PAVEMENT SCHEDULE

TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-2)

SR-50 CONNECTOR

STA. 12+00.00 - STA. 13+80.47 (TRANSITION 20' RDY TO 36' RDY)
STA. 26+13.11 - STA. 33+22.00
STA. 36+58.41 - STA. 50+20.00
STA. 50+20.00 - STA. 50+63.01 (TRANSITION 24' RDY TO 36' RDY)

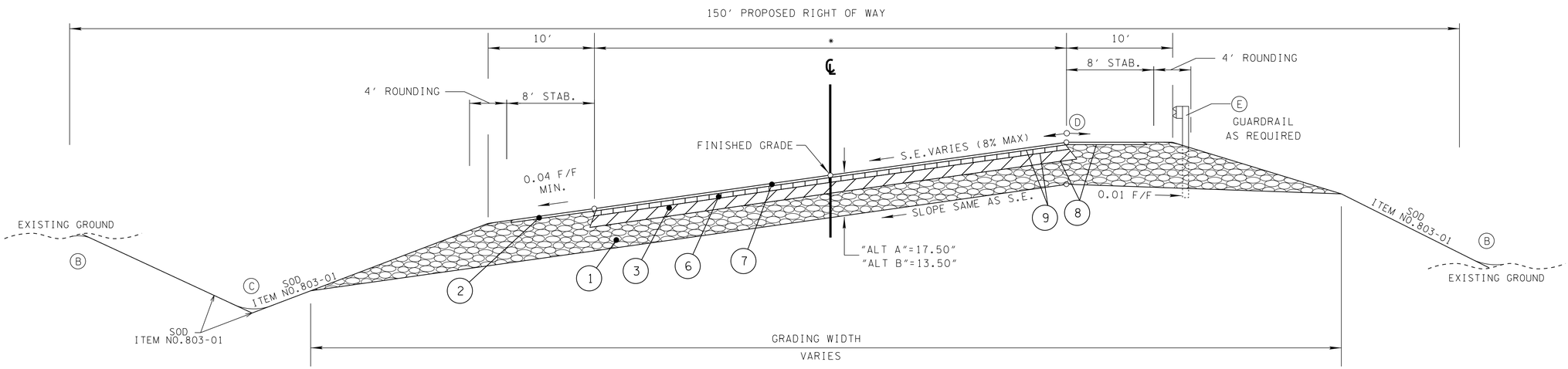
(A) THE CLEAR ZONE WIDTH SHALL BE DETERMINED FROM STANDARD DRAWING S-CZ-1.

(B) SEE STANDARD DRAWING RD01-S-11 AND RD01-S-11B FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, AND SPECIAL ROCK CUT TREATMENT.

(C) SEE STANDARD DRAWING RD01-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.

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

(E) SEE STD. DWG. S-GRT-2 FOR ADDITIONAL WIDTH REQUIRED AT TYPE 38 END ELEMENTS.



SEE SOILS SHEETS 23-230 FOR DETAILS ON

STA. 12+00.00 - STA. 19+50.00
STA. 19+50.00 - STA. 22+50.00
STA. 22+50.00 - STA. 29+50.00
STA. 29+50.00 - STA. 35+50.00

* SEE SHEET 2C FOR PAVEMENT SCHEDULE

SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-2)
(BASED ON STD. DWG. RD01-SE-3)

SR-50 CONNECTOR

STA. 13+80.47 - STA. 14+30.00 (TRANSITION 20' RDY TO 36' RDY)
STA. 14+30.00 - STA. 15+80.00 (TRANSITION 20' RDY TO 36' RDY)
STA. 15+80.00 - STA. 16+00.00 (TRANSITION 20' RDY TO 36' RDY)
*3-12' LANES STA. 16+00.00 - STA. 21+00.00
STA. 21+00.00 - STA. 24+00.00 (TRANSITION 36' RDY TO 24' RDY)
*2-12' LANES STA. 24+00.00 - STA. 26+13.11
*2-12' LANES STA. 33+22.00 - STA. 36+58.41
STA. 50+63.01 - STA. 53+20.00 (TRANSITION 24' RDY TO 36' RDY)

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TYPICAL SECTIONS

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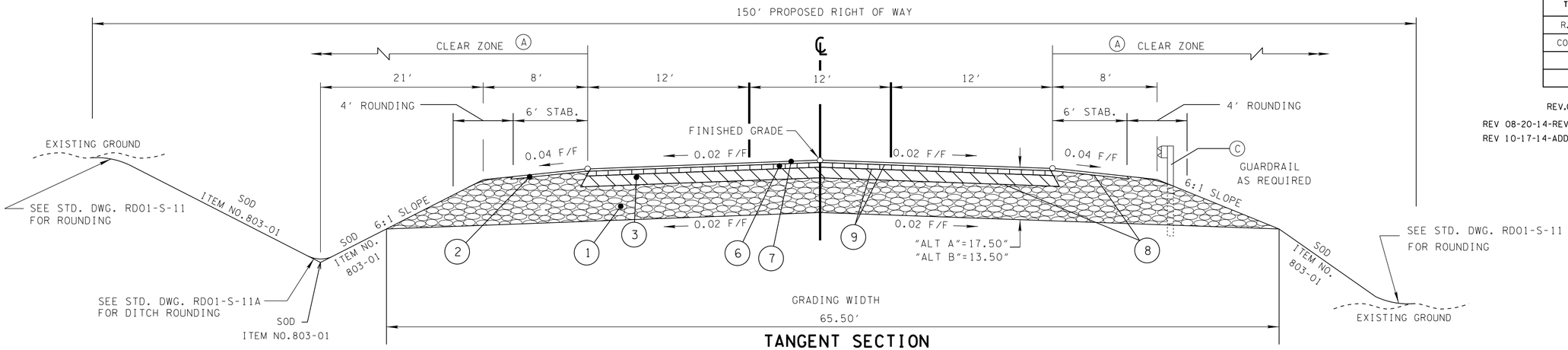
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	2A
CONST.	2015	STP-50(31)	2C

REV.07-29-14- REVISED PVMT DESIGN.
REV 08-20-14-REVISED PVMT DESIGN PER PVMT DESIGN REQ.
REV 10-17-14-ADDED SOD PER CFR.



TANGENT SECTION

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

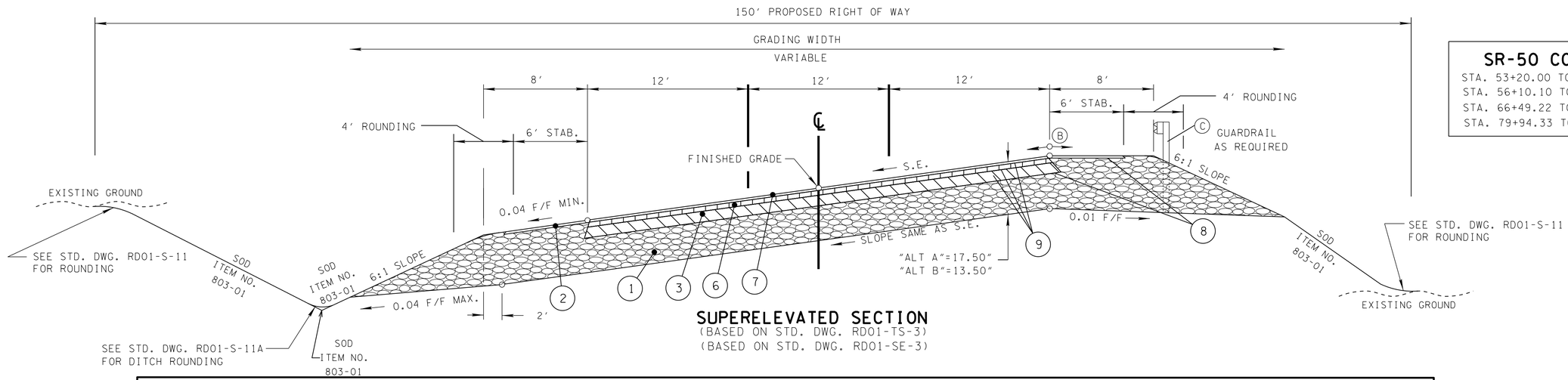
SR-50 CONNECTOR

STA. 53+55.16 TO STA. 56+10.10
STA. 64+82.57 TO STA. 66+49.22
STA. 76+70.27 TO STA. 79+94.33
STA. 82+85.96 TO STA. 86+50.00

(A) THE CLEAR ZONE WIDTH SHALL BE DETERMINED FROM STANDARD DRAWING S-CZ-1.

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

(C) SEE STD. DWG. S-GRT-2 FOR ADDITIONAL WIDTH REQUIRED AT TYPE 38 END ELEMENTS.



SUPERELEVATED SECTION

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

SR-50 CONNECTOR

STA. 53+20.00 TO STA. 53+55.16
STA. 56+10.10 TO STA. 64+82.57
STA. 66+49.22 TO STA. 76+70.27
STA. 79+94.33 TO STA. 82+85.96

PROPOSED PAVEMENT SCHEDULE - SR-50 CONNECTOR "ALTERNATE B"		
(1) MINERAL AGGREGATE BASE 4" THICK (APPROX. 451 LBS/SQ YD 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(6) BITUMINOUS BINDER GRADING "BM-2" 2.25" THICK (APPROX. 254.25 LBS/ SQ YD) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2	(9) TACK COAT 403-01 BITUMINOUS MAT. FOR TACK COAT (TC) @ 0.02 GAL/SY
(2) ASPHALTIC CONCRETE SURFACE (SHOULDER) GRADING "E" 1.5" THICK (APPROX. 154.5 LBS/ SQ YD) 411-01.07 ASPHALT CONCRETE MIX (PG64-22) (ACS) GRADING E	(7) ASPHALTIC CONCRETE SURFACE GRADING "D" 1.25" THICK (APPROX. 132.5 LBS/ SQ YD) 411-01.10 ACS MIX(PG64-22) GRADING D	
(3) 6" THICK MINERAL AGGREGATE CEMENT BASE 309-01.01 MINERAL AGGREGATE (A-CBC) 309-01.02 PORTLAND CEMENT (A-CBC) 309-02 BITUMINOUS MATERIAL (A-CBC)	(8) PRIME COAT 402-01 BITUMINOUS MAT. FOR PRIME COAT (PC) @ 0.3-0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LB/SY	

PROPOSED PAVEMENT SCHEDULE - SR-50 CONNECTOR "ALTERNATE A"		
(1) MINERAL AGGREGATE BASE 14" THICK (APPROX. 1579 LBS/SQ YD) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(6) BITUMINOUS BINDER GRADING "BM-2" 2.25" THICK (APPROX. 254.25 LBS/ SQ YD) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2	(8) PRIME COAT 402-01 BITUMINOUS MAT. FOR PRIME COAT (PC) @ 0.3-0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LB/SY
(2) ASPHALTIC CONCRETE SURFACE (SHOULDER) GRADING "E" 1.5" THICK (APPROX. 154.5 LBS/ SQ YD) 411-01.07 ASPHALT CONCRETE MIX (PG64-22) (ACS) GRADING E	(7) ASPHALTIC CONCRETE SURFACE GRADING "D" 1.25" THICK (APPROX. 132.5 LBS/ SQ YD) 411-01.10 ACS MIX(PG64-22) GRADING D	(9) TACK COAT 403-01 BITUMINOUS MAT. FOR TACK COAT (TC) @ 0.02 GAL/SY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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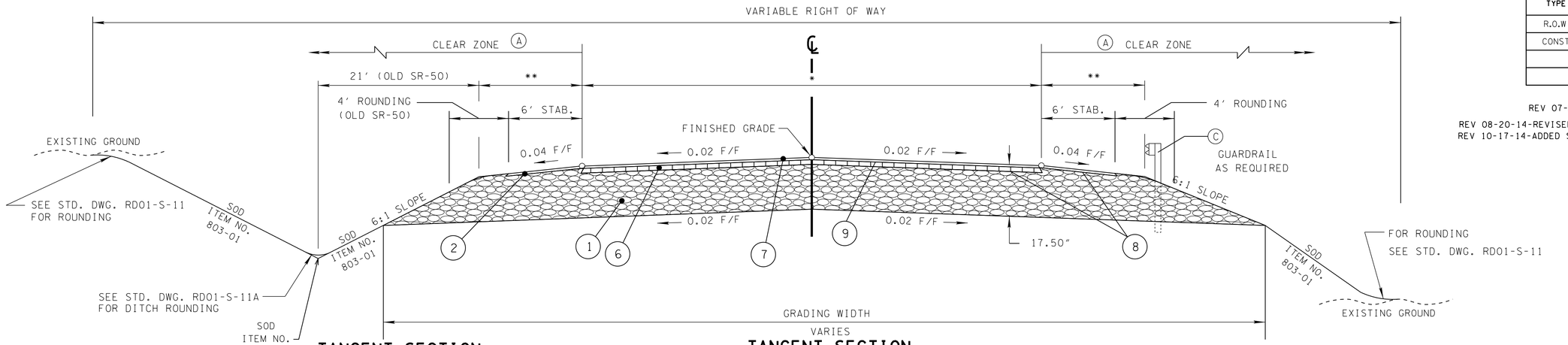
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	2B
CONST	2015	STP-50(31)	2D

REV 07-29-14- REVISED PVMT DESIGN.
REV 08-20-14-REVISED PVMT DESIGN PER PVMT DESIGN REQ.
REV 10-17-14-ADDED SOD PER CFR.



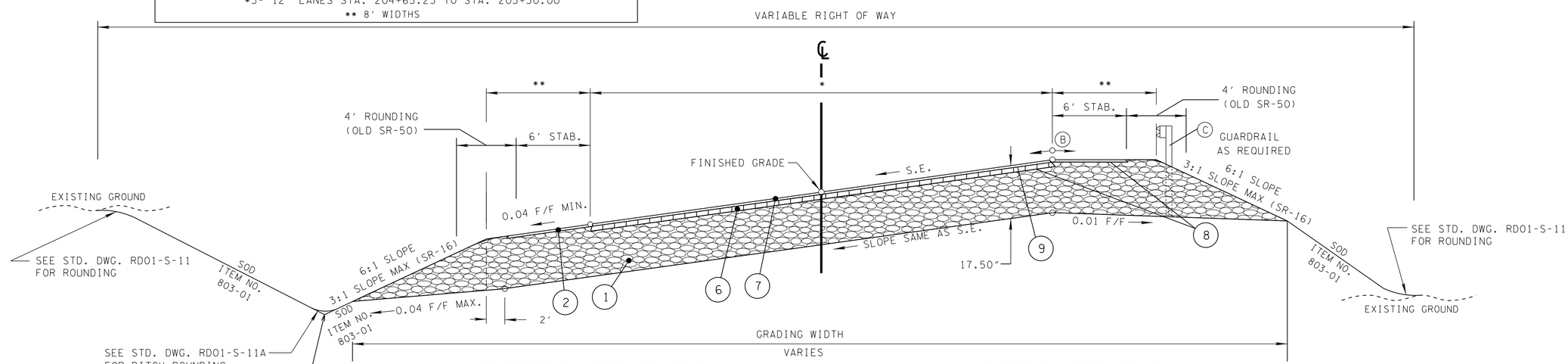
TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-3)

OLD SR-50
STA. 200+70.00 TO STA. 201+60.00 (TRANSITION 20' EXIST. TO 24' RDY)
*2- 12' LANES STA. 201+60.00 TO STA. 202+13.95
*3- 12' LANES STA. 204+65.23 TO STA. 205+30.00
** 8' WIDTHS

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

SR-16
*2-12' LANES STA. 4+99.98 - STA. 5+52.93
STA. 8+83.84 - STA. 9+20.00 (*TRANSITION 24' EXIST. TO 36' RDY)
*3-12' LANES STA. 9+20.00 - STA. 9+85.00
** 6' WIDTHS

(A) THE CLEAR ZONE WIDTH SHALL BE DETERMINED FROM STANDARD DRAWING S-CZ-1.
(B) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 FT/FT.
(C) SEE STD. DWG. S-GRT-2 FOR ADDITIONAL WIDTH REQUIRED AT TYPE 38 END ELEMENTS.



SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-3)
(BASED ON STD. DWG. RD01-SE-3)

OLD SR-50
*2-12' LANES- STA. 202+13.95 TO STA. 203+00.00
STA. 203+00.00 TO STA. 203+90.00 (TRANSITION 24' EXIST. TO 36' RDY)
*3-12' LANES- STA. 203+90.00 TO STA. 204+65.23
** 8' WIDTHS

SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-1)
(BASED ON STD. DWG. RD01-SE-3)

SR-16
STA. 5+52.93 TO STA. 8+30.00 (*TRANSITION 24' RDY TO 36' RDY)
STA. 8+30.00 TO STA. 8+83.84 (*TRANSITION 24' RDY TO 36' RDY)
** 6' WIDTHS

PROPOSED PAVEMENT SCHEDULE - OLD SR-50 AND SR-16

(1) MINERAL AGGREGATE BASE 14" THICK (APPROX. 1578.5 LBS/SQ YD) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(6) BITUMINOUS BINDER GRADING "BM-2" 2.25" THICK (APPROX. 254.25 LBS/ SQ YD) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2	(9) TACK COAT 403-01 BITUMINOUS MAT. FOR TACK COAT (TC) @ 0.02 GAL/SY
(2) ASPHALTIC CONCRETE SURFACE (SHOULDER) GRADING "E" 1.5" THICK (APPROX. 154.5 LBS/ SQ YD) 411-01.07 ASPHALT CONCRETE MIX (PG64-22) (ACS) GRADING E	(7) ASPHALTIC CONCRETE SURFACE GRADING "D" 1.25" THICK (APPROX. 132.5 LBS/ SQ YD) 411-01.10 ACS MIX(PG64-22) GRADING D	
	(8) PRIME COAT 402-01 BITUMINOUS MAT. FOR PRIME COAT (PC) @ 0.3-0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LB/SY	

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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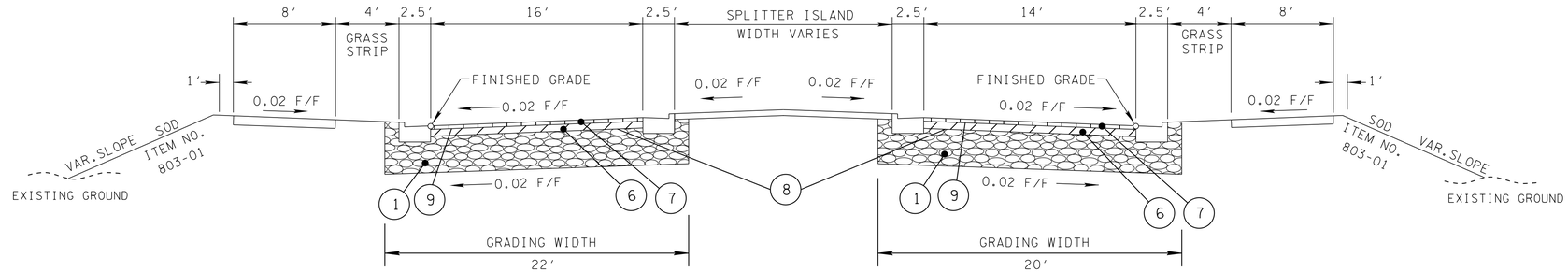
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	2C
CONST	2015	STP-50(31)	2E

REV. 07-29-14-REVISED PVMT DESIGN.

REV 08-20-14-REVISED PVMT DESIGN PER PVMT DESIGN REQ.
REV 10-17-14-REVISED SLOPE AND ADDED SOD PER CFR.



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-9)

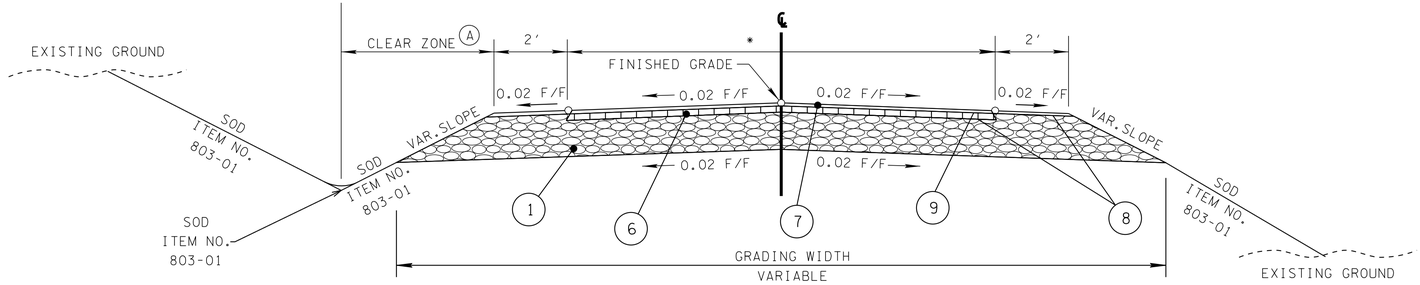
SR-16

STA. 9+85.00 - STA. 10+60.00
STA. 10+60.00 - STA. 11+85.00
(SEE SOILS SHEET 23Q FOR DETAIL ON SINKHOLE TREATMENT)

SR-16 SOUTHEAST APPROACH RAMP	SR-16 NORTHEAST APPROACH RAMP
STA. 0+00.00 - STA. 1+90.00	STA. 0+50.00 - STA. 2+22.41

PROPOSED PAVEMENT SCHEDULE - SR-16

(1) MINERAL AGGREGATE BASE 14" THICK (APPROX. 1579 LBS/SQ YD) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(6) BITUMINOUS BINDER GRADING "BM-2" 2.25" THICK (APPROX. 254.25 LBS/ SQ YD) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2	(8) PRIME COAT 402-01 BITUMINOUS MAT. FOR PRIME COAT (PC) @ 0.3-0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LB/SY
	(7) ASPHALTIC CONCRETE SURFACE GRADING "D" 1.25" THICK (APPROX. 132.5 LBS/ SQ YD) 411-01.10 ACS MIX(PG64-22) GRADING D	(9) TACK COAT 403-01 BITUMINOUS MAT. FOR TACK COAT (TC) @ 0.02 GAL/SY



TANGENT SECTION

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

WILTON CIRCLE 3 (74+13.44 ℄ SR-50 CONNECTOR)

*3-12' LANES STA. 100+26.00 - STA. 100+85.00
STA. 100+85.00 - STA. 101+75.00 (TRANSITION 36' RDY TO 24' RDY)
*2-12' LANES STA. 101+75.00 - STA. 103+50.00

(A) THE CLEAR ZONE WIDTH SHALL BE DETERMINED FROM STANDARD DRAWING S-CZ-1.

PROPOSED PAVEMENT SCHEDULE - WILTON CIRCLE 3

(1) MINERAL AGGREGATE BASE 10" THICK (APPROX. 1127.5 LBS/SQ YD) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(6) BITUMINOUS BINDER GRADING "BM-2" 2" THICK (APPROX. 226 LBS/ SQ YD) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2	(8) PRIME COAT 402-01 BITUMINOUS MAT. FOR PRIME COAT (PC) @ 0.3-0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LB/SY
	(7) ASPHALTIC CONCRETE SURFACE GRADING "D" 1.25" THICK (APPROX. 132.5 LBS/ SQ YD) 411-01.10 ACS MIX(PG64-22) GRADING D	(9) TACK COAT 403-01 BITUMINOUS MAT. FOR TACK COAT (TC) @ 0.02 GAL/SY

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SR-16 RAMP & WILTON CIRCLE 3
NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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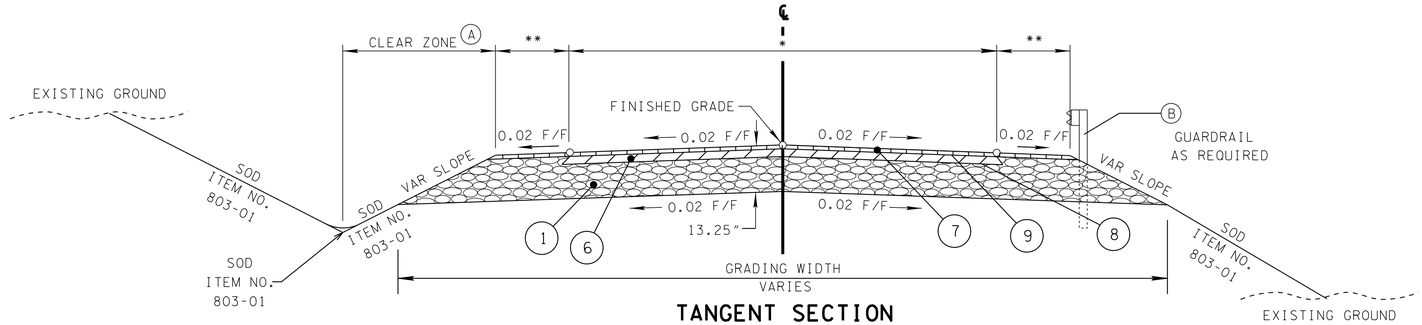
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	2D
CONST	2015	STP-50(31)	2F

REV. 07-29-14-REVISED PVMT DESIGN.

REV 08-20-14-REVISED PVMT DESIGN PER PVMT DESIGN REQ.

REV 10-17-14-REVISED SLOPES AND ADDED SOD PER CFR.



TANGENT SECTION

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

COUTTA CIRCLE (12+68.83 ℄ SR-50 CONNECTOR)

STA. 601+00.00 - STA. 602+20.00 (TRANSITION 20' EXIST. TO 36' RDY)
*3-12' LANES STA. 602+20.00 - STA. 603+02.50
** 2' WIDTHS

DRY CREEK ROAD 1

STA. 200+75.00 - STA. 201+08.00 (TRANSITION 12' EXIST. TO 20' RDY)
*2-10' LANES STA. 201+08.00 - STA. 202+41.00
STA. 202+41.00 - STA. 202+73.00 (TRANSITION 20' RDY TO 12' EXIST.)
** 2' WIDTHS

DRY CREEK ROAD (30+00.00 ℄ SR-50 CONNECTOR)

*3-11' LANES STA. 300+12.00 - STA. 300+60.00
STA. 300+60.00 - STA. 301+20.00 (TRANSITION 33' RDY TO 22' RDY)
* 2-11' LANES STA. 301+20.00 - STA. 301+79.62
STA. 302+97.74 - STA. 303+30.00 (TRANSITION 22' RDY TO 12' EXIST.)
** 4' WIDTHS

WILTON CIRCLE 1 (53+95.00 ℄ SR-50 CONNECTOR)

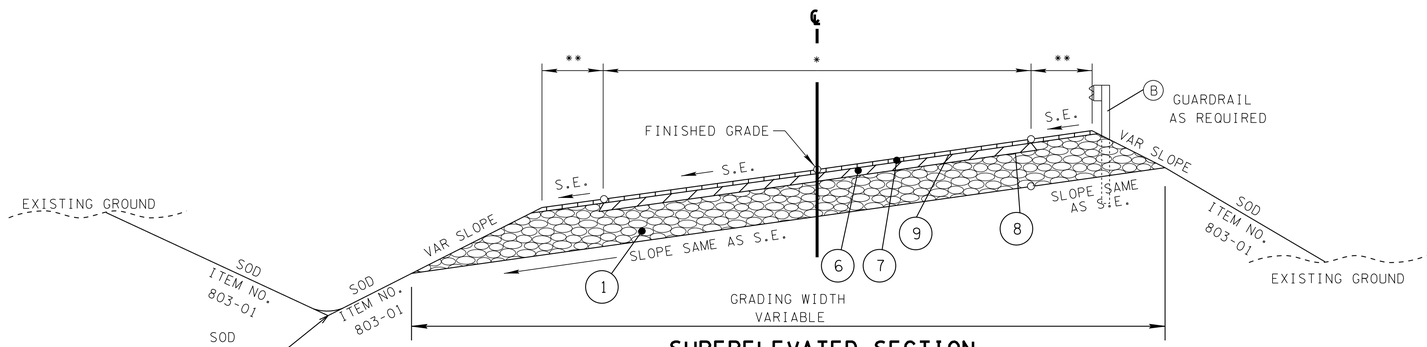
*3-12' LANES STA. 500+22.00 - STA. 501+40.22
STA. 502+87.49 - STA. 503+25.00 (TRANSITION 36' RDY TO 16' EXIST.)
** 4' WIDTHS

WILTON CIRCLE 2 (59+80.32 ℄ SR-50 CONNECTOR)

STA. 205+60.00 - STA. 206+80.00 (TRANSITION 20' EXIST. TO 36' RDY)
*3-12' LANES STA. 206+80.00 - STA. 208+13.87
** 2' WIDTHS

JOYCE LANE (83+00.00℄ SR-50 CONNECTOR)

*3-12' LANES STA. 400+26.00 - STA. 401+00.00
STA. 401+00.00 - STA. 402+00.00 (TRANSITION 36' RDY TO 24' RDY)
*2-12' LANES STA. 402+00.00 - STA. 405+23.95
*2-12' LANES STA. 408+60.99 - STA. 409+88.67
** 4' WIDTHS



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1A)
(BASED ON STD. DWG. RD01-SE-3)

(A) THE CLEAR ZONE WIDTH SHALL BE DETERMINED FROM STANDARD DRAWING S-CZ-1.

(B) SEE STD. DWG. S-GRT-2 FOR ADDITIONAL WIDTH REQUIRED AT TYPE 38 END ELEMENTS.

DRY CREEK ROAD (30+00.00 ℄ SR-50 CONNECTOR)

*2-11' LANES STA. 301+79.62 - STA. 302+70.00
STA. 302+70.00 - STA. 302+97.74 (TRANSITION 22' RDY TO 12' EXIST.)
** 4' WIDTHS

WILTON CIRCLE 1 ROAD (53+95.00 ℄ SR-50 CONNECTOR)

*3 - 12' LANES STA. 501+40.22 - STA. 501+75.00
STA. 501+75.00 - STA. 502+87.49 (TRANSITION 36' RDY TO 16' EXIST.)
** 4' WIDTHS

JOYCE LANE (83+00.00℄ SR-50 CONNECTOR)

*2-12' LANES STA. 405+23.95 - STA. 408+60.99
** 4' WIDTHS

PROPOSED PAVEMENT SCHEDULE - INTERSECTING ROADS

(1) MINERAL AGGREGATE BASE 10" THICK (APPROX. 1127.5 LBS/SQ YD) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(7) ASPHALTIC CONCRETE SURFACE GRADING "D" 1.25" THICK (APPROX. 132.5 LBS/ SQ YD) 411-01.10 ACS MIX(PG64-22) GRADING D	(8) PRIME COAT 402-01 BITUMINOUS MAT. FOR PRIME COAT (PC) @ 0.3-0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LB/SY
(6) BITUMINOUS BINDER GRADING "BM-2" 2.00" THICK (APPROX. 226.00 LBS/ SQ YD) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2		(9) TACK COAT 403-01 BITUMINOUS MAT. FOR TACK COAT (TC) @ 0.02 GAL/SY

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NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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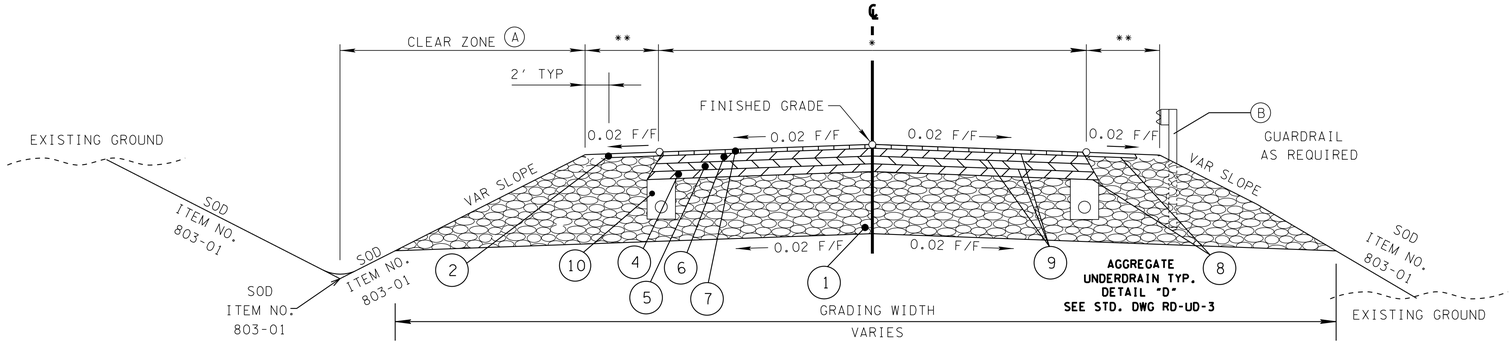
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	2E
CONST	2015	STP-50(31)	2G

REV 08-20-14-REVISED PVMT DESIGN PER PVMT DESIGN REQ.
REV 10-17-14-REVISED SLOPES AND ADDED SOD PER CFR.



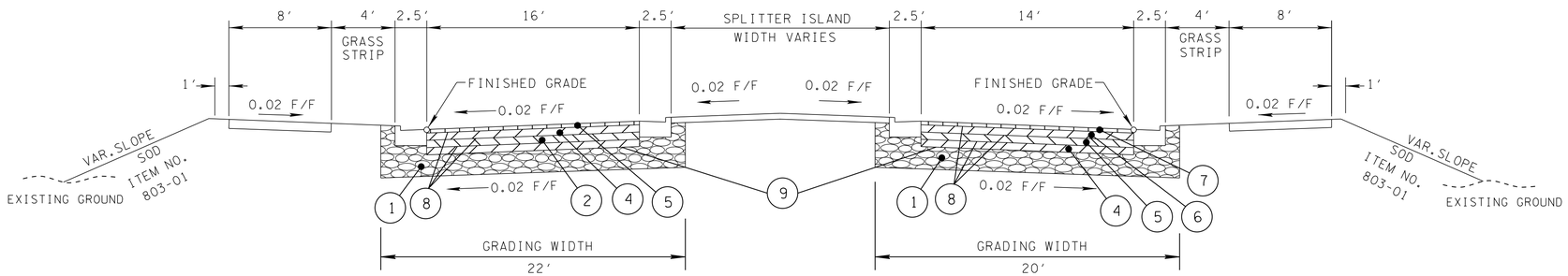
TANGENT SECTION

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

SR-15 (NORTH END)	SR15 (SOUTH END)
STA. 700+00.00 - STA. 700+80.00 (*TRANSITION 22' EXIST. TO 36' RDY)	*2-12' LANES STA. 600+70.00 - STA. 601+70.00
** 6' WIDTHS	** 8' WIDTHS

(A) THE CLEAR ZONE WIDTH SHALL BE DETERMINED FROM STANDARD DRAWING S-CZ-1.

(B) SEE STD. DWG. S-GRT-2 FOR ADDITIONAL WIDTH REQUIRED AT TYPE 38 END ELEMENTS.



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-9)

SR-15 (NORTH END)	
STA. 700+80.00 - STA. 701+25.00 (TRANSITION 22' EXIST. TO 36' RDY) STA. 701+25.00 - STA. 702+00.00	
SR-15 NORTHEAST APPROACH RAMP	SR-15 NORTHWEST APPROACH RAMP
STA. 0+00.00 - STA. 1+70.00	STA. 0+65.00 - STA. 2+27.40

TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-9)

SR15 (SOUTH END)	
STA. 601+70.00 - STA. 604+00.00	
SR-15 SOUTHWEST APPROACH RAMP	SR-15 SOUTHEAST APPROACH RAMP
STA. 0+00.00 - STA. 3+15.50	STA. 0+00.00 - STA. 3+09.08

PROPOSED PAVEMENT SCHEDULE - INTERSECTING ROADS

(1) MINERAL AGGREGATE BASE 10" THICK (APPROX. 902 LBS/SQ YD) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(5) BITUMINOUS BASE (HOT MIX) GRADING "A" 3" THICK (APPROX. 345 LBS/ SQ YD) 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	(8) PRIME COAT 402-01 BITUMINOUS MAT. FOR PRIME COAT (PC) @ 0.3-0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LB/SY
(2) ASPHALTIC CONCRETE SURFACE (SHOULDER) GRADING "E" 1.5" THICK (APPROX. 159 LBS/ SQ YD) 411-02.10 ASPHALT CONCRETE MIX (PG70-22) (ACS) GRADING E	(6) BITUMINOUS BINDER GRADING "BM-2" 2" THICK (APPROX. 226 LBS/ SQ YD) 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING BM-2	(9) TACK COAT 403-01 BITUMINOUS MAT. FOR TACK COAT (TC) @ 0.02 GAL/SY
(4) BITUMINOUS BASE (HOT MIX) GRADING "A-S" 3" THICK (APPROX. 270 LBS/ SQ YD) 307-02.02 ASPHALT CEMENT (PG70-22)(BPMB-HM) GRADING A-S 307-02.03 AGGREGATE (BPMB-HM) GRADING A-S MIX	(7) ASPHALTIC CONCRETE SURFACE GRADING "D" 1.25" THICK (APPROX. 132.5 LBS/ SQ YD) 411-02.10 ACS MIX(PG70-22) GRADING D	(10) UNDERDRAINS 710-02 AGGREGATE UNDERDRAIN (WITH PIPE)

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SR-15

NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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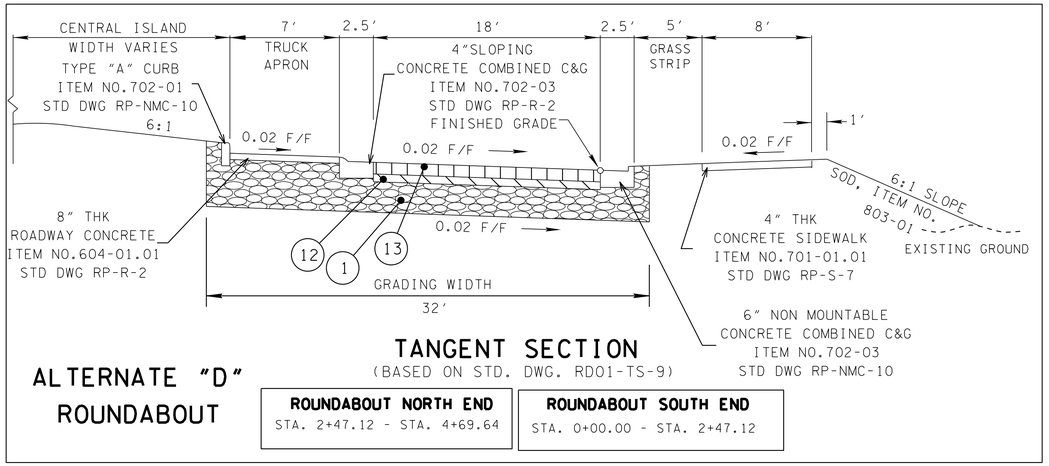
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	2F
CONST	2015	STP-50(31)	2H

REV.07-29-14-REVISED PVMT DESIGN.

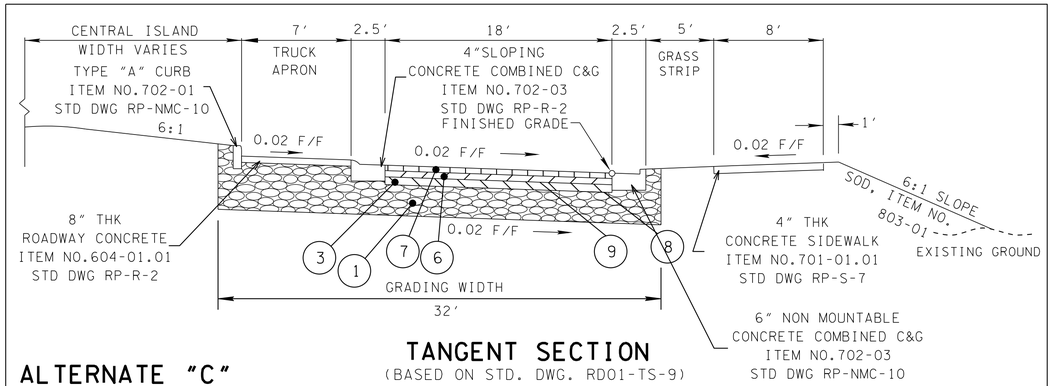
REV.10-17-14-REVISED PVMT DESIGN.
REVISED SLOPES AND ADDED SOD PER CFR.



ALTERNATE "D"
ROUNDABOUT

TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-9)

ROUNDABOUT NORTH END	ROUNDABOUT SOUTH END
STA. 2+47.12 - STA. 4+69.64	STA. 0+00.00 - STA. 2+47.12



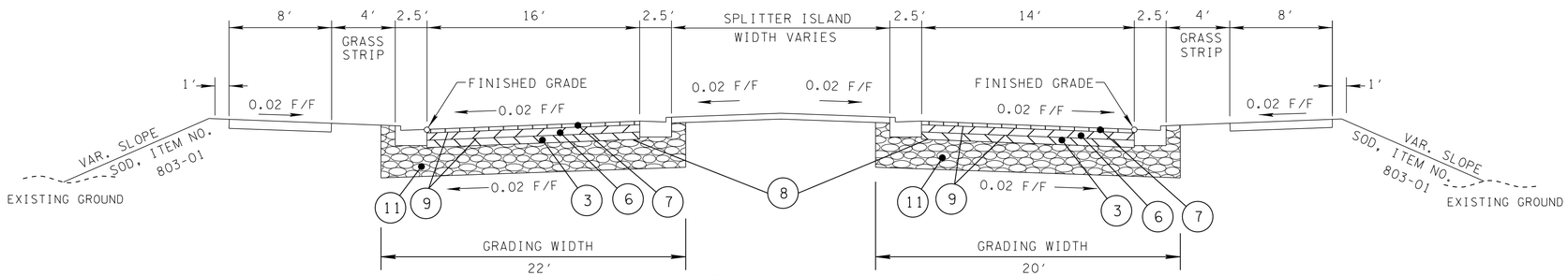
ALTERNATE "C"
ROUNDABOUT

TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-9)

ROUNDABOUT NORTH END	ROUNDABOUT SOUTH END
STA. 2+47.12 - STA. 4+69.64	STA. 0+00.00 - STA. 2+47.12

PROPOSED PAVEMENT SCHEDULE - ALTERNATE "D" ROUNDABOUT

(1) MINERAL AGGREGATE BASE 6" THICK (APPROX. 677 LBS/SQ YD 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(13) BITUMINOUS BINDER GRADING "BM-2" 2.25" THICK (APPROX. 254.25 LBS/ SQ YD) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2
(12) 6" THK MINERAL AGGREGATE CEMENT BASE 309-01.01 MINERAL AGGREGATE (A-CBC) 309-01.02 PORTLAND CEMENT(A-CBC) 309-02 BITUMINUOUS MAT. (A-CBC)	



TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-9)

SR-50
STA. 86+50.00 - STA. 88+40.00

SR-50 NORTHWEST APPROACH RAMP	SR-50 SOUTHWEST APPROACH RAMP
STA. 0+00.00 - STA. 2+21.06	STA. 0+00.00 - STA. 2+11.44

PROPOSED PAVEMENT SCHEDULE - ALTERNATE "C" ROUNDABOUT AND INTERSECTING ROADS

(1) MINERAL AGGREGATE BASE 8" THICK (APPROX. 902 LBS/SQ YD 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"	(6) BITUMINOUS BINDER GRADING "BM-2" 2.25" THICK (APPROX. 254.25 LBS/ SQ YD) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2	(9) TACK COAT 403-01 BITUMINOUS MAT. FOR TACK COAT (TC) @ 0.02 GAL/SY
(3) 6" THK MINERAL AGGREGATE CEMENT BASE 309-01.01 MINERAL AGGREGATE (A-CBC) 309-01.02 PORTLAND CEMENT(A-CBC) 309-02 BITUMINUOUS MAT. (A-CBC)	(7) ASPHALTIC CONCRETE SURFACE GRADING "D" 1.25" THICK (APPROX. 132.5 LBS/ SQ YD) 411-01.10 ACS MIX(PG64-22) GRADING D	(11) MINERAL AGGREGATE BASE (4" THICK (APPROX. 451 LBS/SQ YD) 303-01 MINERAL AGGREGATE, TYPE "A" BASE GRADING "D"
	(8) PRIME COAT 402-01 BITUMINOUS MAT. FOR PRIME COAT (PC) @ 0.3-0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LB/SY	

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SR-50 ROUNDABOUT & INTERSECTING RAMP
NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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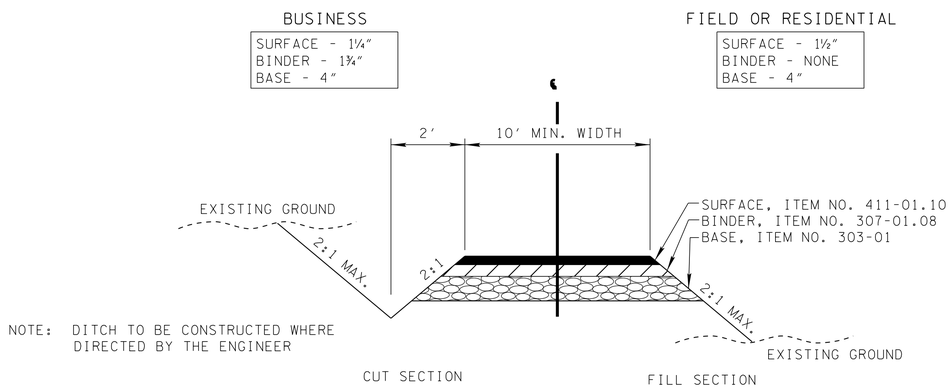
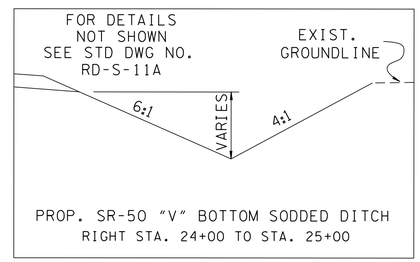
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	2G
CONST	2015	STP-50(31)	2H1

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

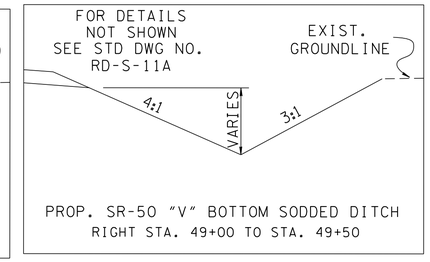


NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

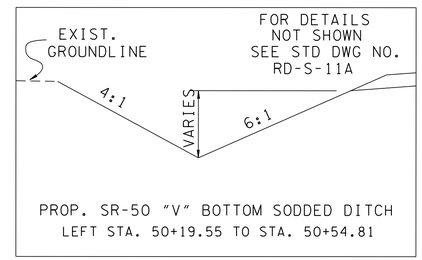
TYPICAL SECTION
PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY



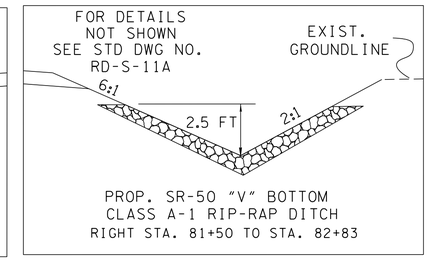
PROP. SR-50 "V" BOTTOM SODDED DITCH
RIGHT STA. 24+00 TO STA. 25+00



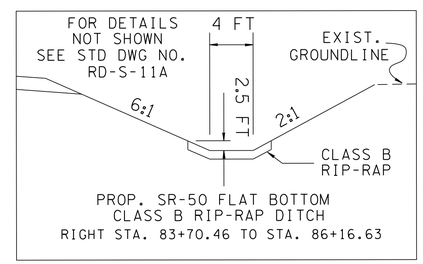
PROP. SR-50 "V" BOTTOM SODDED DITCH
RIGHT STA. 49+00 TO STA. 49+50



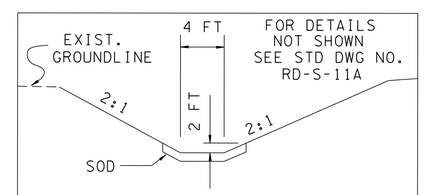
PROP. SR-50 "V" BOTTOM SODDED DITCH
LEFT STA. 50+19.55 TO STA. 50+54.81



PROP. SR-50 "V" BOTTOM
CLASS A-1 RIP-RAP DITCH
RIGHT STA. 81+50 TO STA. 82+83



PROP. SR-50 FLAT BOTTOM
CLASS B RIP-RAP DITCH
RIGHT STA. 83+70.46 TO STA. 86+16.63



PROP. SR-16 FLAT BOTTOM SODDED DITCH
LEFT STA. 7+24.83 TO STA. 9+77.54

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIELD ENTRANCES, BUSINESS AND PRIVATE DRIVES AND SPECIAL DITCHES

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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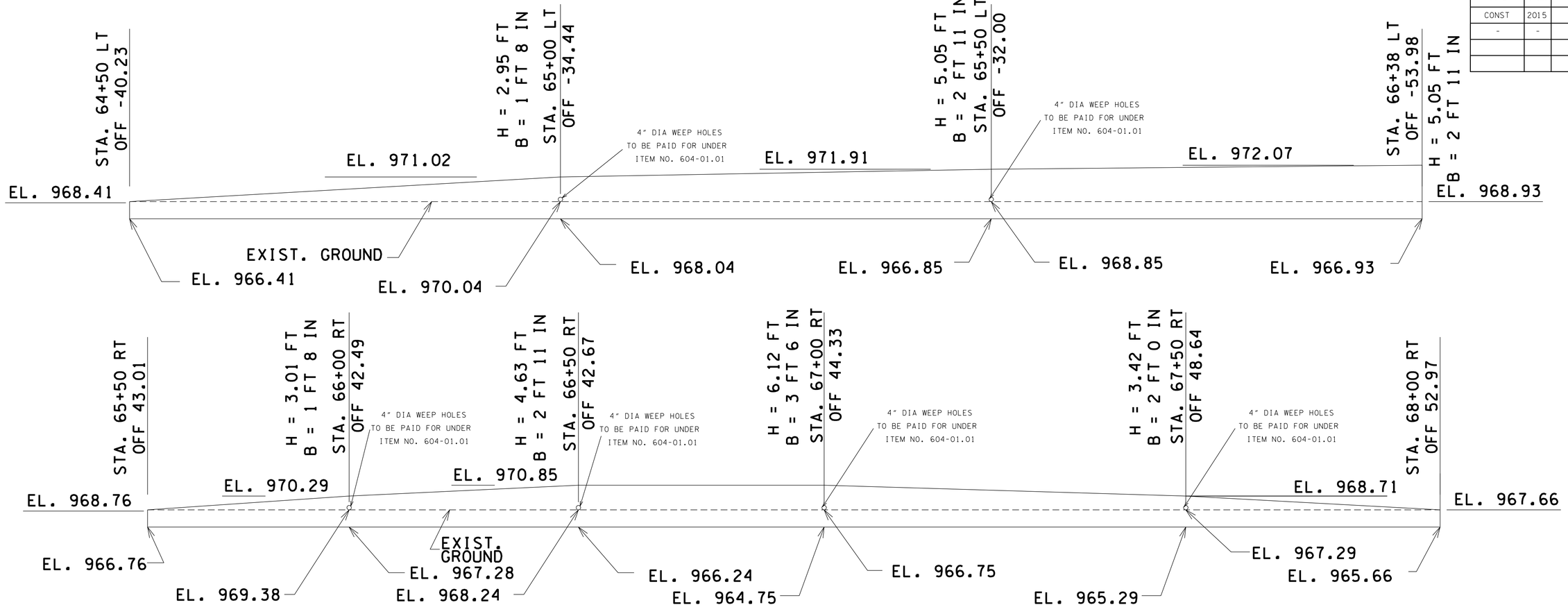
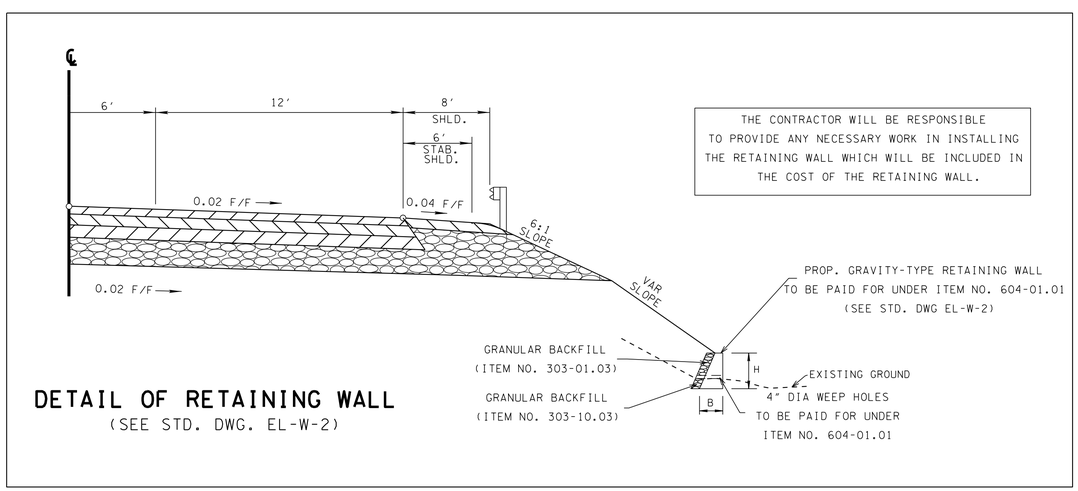
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2H2
-	-	-	-





DETAIL OF RETAINING WALL
(SEE STD. DWG. EL-W-2)

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RETAINING WALLS DETAILS

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2J

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

GENERAL NOTES

GRADING

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

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

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

SEEDING AND SODDING

(1) 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.

GUARDRAIL

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

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

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

DRAINAGE

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

(2) EXCAVATION FOR PIPE CULVERTS AND STORM SEWERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.

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

(4) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

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

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

UTILITIES

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

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

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

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

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

FENCING

(1) LOCATION OF THE FENCE SHALL BE ONE FOOT INSIDE THE RIGHT-OF-WAY EXCEPT WHERE SHOWN ON THE PLANS.

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

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

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

MISCELLANEOUS

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

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

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

ROAD CLOSURE

(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) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT

FINAL PAVEMENT MARKING IF 6" ENHANCED FLATLINE THERMOPLASTIC IS USED

(3) 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.

FINAL PAVEMENT MARKING IF 8" ENHANCED FLATLINE THERMOPLASTIC IS USED

(4) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 8" 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. 716-12.03, ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE), L.F. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(5) BEFORE OPENING THE LANE SHIFTS/DETOURS 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.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
AND
SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2K

(2) 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) THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE 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 MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.

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

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) 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.

(3) 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 ROOADWAY DESIGN DIVISION, SIGNING AND MARKING SECTION, SUITE 1300, J. K. POLK BUILDING, NASHVILLE, TN 37243-1402.

(4) 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.

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

TRAFFIC CONTROL DIRECTIONAL SIGNING

(1) ON ALL ACCESS CONTROLLED AND INTERSTATE RECONSTRUCTION AND NEW CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL UTILIZE ALL EXISTING DIRECTIONAL SIGNING FOR AS LONG AS POSSIBLE. THESE EXISTING SIGNS CAN BE MOVED USING TEMPORARY SUPPORTS AS NEEDED. AS SOON AS THESE EXISTING DIRECTIONAL SIGNS COME DOWN PERMANENTLY, THE CONTRACTOR SHALL HAVE UP AT LEAST ONE NEW TEMPORARY "ADVANCE GUIDE SIGN" AND ONE NEW TEMPORARY "EXIT DIRECTIONAL SIGN" AT ALL EXIT RAMPS. THESE SIGNS ARE TO BE MAINTAINED WITHIN CLEAR VIEW OF THE PUBLIC ON THE RIGHT SIDE OF THE HIGHWAY AND SHALL BE REPLACED IF DAMAGED, DURING ALL PHASES OF CONSTRUCTION, AS DIRECTED BY THE ENGINEER.

(2) THE SIZE OF THESE NEW TEMPORARY SIGNS WILL BE DETERMINED BY THE MESSAGE. THE MESSAGE SHALL BE THE SAME AS THE EXISTING SIGN THAT THESE NEW TEMPORARY SIGNS WILL BE REPLACING. THE LETTER SIZE SHALL BE A MINIMUM OF 8 INCH, "D" UPPER CASE LETTER. THE DIRECTIONAL ARROW WILL BE A "B" ARROW AT A 45 DEGREE ANGLE (SAME ANGLE AS THE EXISTING ARROW). THE MATERIAL SHALL BE 0.100 INCH SHEET ALUMINUM; THE COLOR SHALL BE A REFLECTIVE GREEN BACKGROUND WITH REFLECTIVE WHITE COPY.

(3) ALL WORK AND MATERIAL TO MAKE THESE NEW TEMPORARY DIRECTIONAL SIGNS ALONG WITH ADEQUATE SUPPORTS AND TO MOVE THEM AS NEEDED DURING EACH PHASE OF CONSTRUCTION WILL BE PAID FOR UNDER ITEM NO.712-01 TRAFFIC CONTROL, LUMP SUM, AS DIRECTED BY THE ENGINEER.

(4) SOME OF THESE DIRECTIONAL SIGNS WILL NEED AN INTERSTATE, U.S., OR A STATE HIGHWAY SHIELD, A CARDINAL DIRECTION, AND A DIRECTION ARROW TO ACCOMPANY THE DIRECTIONAL SIGN. THESE SIGNS SHALL BE MOUNTED BELOW THE DIRECTIONAL SIGN.

(5) ALL EXISTING "EMERGENCY REFERENCE MARKERS" AND "HOSPITAL SIGNS" SHALL BE MAINTAINED WITHIN FULL VIEW OF THE MOTORING PUBLIC THROUGHOUT ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING AND TEMPORARY SUPPORTS SHALL BE PAID FOR UNDER ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM.

(6) WHEN "LOGO" SIGNS ARE ON ACCESS CONTROLLED AND INTERSTATE RECONSTRUCTION AND NEW CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS IN FULL VIEW TO THE MOTORING PUBLIC DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO THE DEPARTMENT FOR THE REIMBURSEMENT OF THE SIGN FACE IF IT IS DAMAGED. ALL WORK IN MOVING THESE "LOGO" SIGNS AND THE TEMPORARY SUPPORTS ARE TO BE PAID FOR UNDER ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM, AS DIRECTED BY THE ENGINEER. THE SUPPORTS FOR THE FINAL LOCATION OF THESE SIGNS WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.

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 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.

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 10 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. 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 TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS AND SHALL BE PHASED FOR PROJECTS THAT HAVE OVER 50 ACRES OF SOIL DISTURBANCE. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION PROJECT, UNLESS APPROVED IN WRITING BY THE ENVIRONMENTAL DIVISION.

(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.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
AND
SPECIAL NOTES

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

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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 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. NO. 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.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND SPECIAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2M

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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, ROOADWAY DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(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 ROOADWAY 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.

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

(1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, AND SODDED. 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. SODDING, IN ACCORDANCE WITH SECTION 803 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 803-01.

RETAINING WALLS

(1) THE (RIGHT-OF-WAY/EASEMENT) BETWEEN STATION 64+50 AND STATION 68+00 SHALL REMAIN CLEAR FOR THE CONSTRUCTION OF THE RETAINING WALL. NO UTILITY LINES MAY BE PLACED HERE WITHOUT APPROVAL FROM STRUCTURES DIVISION.

(2) THE OPTIONS FOR RETAINING WALL TYPES SHALL BE LIMITED TO THE APPROVED ALTERNATIVES AS SPECIFIED ON SHEET 2H2.

(3) VALUE ENGINEERING CHANGE PROPOSALS WILL NOT BE ACCEPTED FOR RETAINING WALLS. (ITEM NUMBER:604-01.01)

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

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(5) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 17, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL

(1) TREES THAT HAVE A DIAMETER BREAST (DBH) >5" SHALL NOT BE CUT FROM MARCH 31 THROUGH OCTOBER 15.

(2) A FISH SWEEP MUST BE CONDUCTED BEFORE ANY WORK WITHIN A STREAM BEGINS.

(3) THE CONTRACTOR WILL CONTACT THE REGIONAL BIOLOGIST TWO WEEKS BEFORE ANY IN STREAM WORK BEGINS.

ECOLOGY

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

(2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED BRIDGE WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS WHICH MUST BE FOLLOWED.

(3) ALL BRIDGE PROJECTS WITH THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT IDENTIFIED MUST HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER THE STREAM.

STREAM RELOCATION

(4) 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.

SPECIES

(1) NO DISTURBANCE OF CLIFF SWALLOW AND BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG OR ADULTS) IS PERMITTED DURING APRIL 15 THROUGH JULY 31. NEST REMOVAL OR DESTRUCTION AND THE IMPLEMENTATION OF MEASURES PREVENTING FUTURE NEST BUILDING (E.G., OBSTRUCTING A STRUCTURE USING NETTING) ARE PERMITTED DURING AUGUST 1 THROUGH APRIL 14. EXCEPTIONS ARE AS FOLLOWS:

1. TDOT MAY REMOVE OR DESTROY NESTS AND PREVENT NEST BUILDING PROVIDED NO EGGS ARE PRESENT PRIOR TO APRIL 15. ABSENCE OF EGGS MUST BE DOCUMENTED USING APPROPRIATE MEANS FOR DETERMINATION, INCLUDING SITE VISITS AND PHOTOGRAPHS.

2. TDOT MAY REMOVE OR DESTROY NESTS PROVIDED NO BIRDS (YOUNG OR ADULTS) ARE PRESENT IN ANY NESTS PRIOR TO JULY 31. ABSENCE OF BIRDS MUST BE DOCUMENTED USING APPROPRIATE MEANS FOR DETERMINATION, INCLUDING SITE VISITS, PHOTOGRAPHS, AND OBSERVATIONS OF NO BIRDS USING NESTS.

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GENERAL NOTES
AND
SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2N

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

CATCH BASINS, JUNCTION BOX, AND DROP INLET

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS					
										TYPE 3 611-01-03 8' - 12'	TYPE 12 611-12.01 0' - 4'	TYPE 12 611-12.02 4' - 8'	TYPE 12 611-12.03 8' - 12'	TYPE 39 611-39.02 4' - 8'	JB TYPE 2 611-02.11
10B, 13E	SR-50	88+60.02	54.31	C-2	912.06	12	4 FT X 3 FT	4.28	D-CB-12S			1			
10B, 13E	SR-16	12+11.07	-55.57	D-2	912.05	12	4 FT X 3 FT	4.29	D-CB-12S			1			
10B,13H,13J	SR-16	10+09.97	16.27	E-1	909.46	12	4 FT X 3 FT	2.88	D-CB-12S		1				
10B, 13H,13J	SR-16	10+10.01	-16.78	F-1	909.55	12	4 FT X 3 FT	2.97	D-CB-12S		1				
8B	SR-50	64+27.00	-20.73	A-2		JB	4 FT X 4 FT		D-JBS-2						1
9B	SR-50	80+25.82	42.64	B-2	925.06	39	4 FT X 4 FT	7.73	D-CB-39S					1	
TOTALS										0	2	2	0	1	1

STORM DRAINAGE PIPES

SHEET NO.	FROM		TO		% GRADE	SIZE & LENGTH (L.F.)					
						RCP - CLASS IV	REINFORCED CONC. PIPE - CLASS III				
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		18"	18"	24"	30"	36"	48"
8B	A-2	965.16	A-1	965.01	0.3	55					
9B	B-2	917.33	B-1	915.9	1.15			116			
10B	C-2	907.78	C-1	905.53	5		45				
10B	D-2	907.76	D-1	905.25	5		50.25				
TOTALS						55	95.25	116	0	0	0

STORM DRAINAGE ENDWALLS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	STANDARD DRAWING	CLASS B RIP-RAP 709-05.08 (TON)	18 IN. ENDWALL 3:1 611-07.54 (EA.)	18 IN. ENDWALL 6:1 611-07.56 (EA.)	24 IN. ENDWALL 3:1 611-07.57 (EA.)
8B	SR-50	64+27.00	35.28	A-1	U	D-PE-18A,D-PE-18B			1	
9B	SR-50	80+77.36	-61.2	B-1	U	D-PE-24A,D-PE-24B	9			1
10B	SR-50	88+28.83	87.8	C-1	U	D-PE-18A,D-PE-18B		1		
10B	SR-16	11+77.24	-94.02	D-1	U	D-PE-18A,D-PE-18B		1		
TOTALS							9	2	1	1

SIDE DRAIN TABULATION

STATION	LOCATION		DESCRIPTION	SURFACE WIDTH (L.F.)	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 10 FT.					END TREATMENT		REMARKS
	LT	RT			18"	23"x14"	24"	36"	42"	TYPE	DRAWING NO.	
601+18.27	X		COUTTA CIRCLE	16	53							
601+98.35		X	COUTTA CIRCLE	12	18							
14+00.47		X	SR-50	10	20							
15+08.56		X	SR-50	10	20							
16+70.00	X		SR-50	20	50							
201+71.08		X	DRY CK RD 1	30		90						OVAL RCP
26+06.07		X	SR-50	10	26							
30+00.00		X	SR-50	10	47					U	D-PE-18A,D-PE-18B	
31+19.50	X		SR-50	10	24							
32+81.49		X	SR-50	10	20							
45+12.48	X		SR-50	10	24							
46+05.00	X		SR-50	10	18							
46+81.02		X	SR-50	20	30							
51+75.31		X	SR-50	12	30							
53+00.65	X		SR-50	10	23							
55+99.98	X		SR-50	12	30							
58+25.96		X	SR-50	12	30							
69+14.88	X		SR-50	24	40							
69+29.91		X	SR-50	30	40							
71+00.00		X	SR-50	20	40							
74+13.44		X	SR-50	36	70					U	D-PE-18A,D-PE-18B	
77+67.29	X		SR-50	10	26							
404+19.85	X		JOYCE LN	10	15							
700+60.56		X	SR-15(NORTH END)	10	24							
8+00.00	X		SR-16	10					24			
5+45.58		X	SR-16	14	30							
TOTALS					748	90	0	0	24			

SIDE DRAIN ENDWALLS

LOCATION	DRIVE OR ENTRANCE STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	SKEW	CLASS A-1 RIP-RAP 709-05.06 (TON)	15 IN. ENDWALL 6:1 611-07.30 (EA.)	18 IN. ENDWALL 6:1 611-07.31 (EA.)	24 IN. ENDWALL 6:1 611-07.32 (EA.)
DRY CK RD	300+43.30	23.88	U	D-PE-18A,D-PE-18B	90			1	
DRY CK RD	300+43.30	-24.01	U	D-PE-18A,D-PE-18B	90	3		1	
WILTON CIRCLE 3	100+50.00	33.97	U	D-PE-18A,D-PE-18B	90			1	
WILTON CIRCLE 3	100+50.00	-35.81	U	D-PE-18A,D-PE-18B	90	5		1	
TOTALS						8	0	4	0

CROSS DRAIN TABULATION

STATION	RCP CLASS III OR CMP 14 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 18 FT.					RCP CLASS IV JACKED IN PLACE	SKEW	RIP-RAP 709-05.06	END TREATMENT				REMARKS
									INLET		OUTLET		
	18"	24"	30"	36"	48"	24"	(DEGREES)	(TON)	TYPE	DRAWING NO.	TYPE	DRAWING NO.	
14+65						74	85	10	U	D-PE-24A,D-PE-24B	U	D-PE-24A,D-PE-24B	SR-50-JACK IN PLACE
20+50		92					90		U	D-PE-24A,D-PE-24B	U	D-PE-24A,D-PE-24B	SR-50
501+99.84				50			90		U	D-PE-36A,D-PE-36B	U	D-PE-36A,D-PE-36B	WILTON CIRCLE 1
103+31.64	42						90		U	D-PE-18A,D-PE-18B	U	D-PE-18A,D-PE-18B	WILTON CIRCLE 3
104+72.45	36						60	6	U	D-PE-18A,D-PE-18B	U	D-PE-18A,D-PE-18B	WILTON CIRCLE 3
400+70					64		90		U	D-PE-48A,D-PE-48B	U	D-PE-48A,D-PE-48B	JOYCE LN
85+00					102		90		U	D-PE-48A,D-PE-48B	U	D-PE-48A,D-PE-48B	SR-50
87+28.99						156	90	20	U	D-PE-24A,D-PE-24B	U	D-PE-24A,D-PE-24B	SR-50-JACK IN PLACE
TOTALS	78	92	0	50	166	230		36					

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2P

CROSS DRAIN ENDWALLS

LOCATION	CROSS DRAIN STATION	OFFSET (FT.)	STRUCTURE TYPE	STANDARD DRAWING	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)	18 IN. ENDWALL 3:1 611-07.54 (EA.)	18 IN. ENDWALL 4:1 611-07.55 (EA.)	24 IN. ENDWALL 3:1 611-07.57 (EA.)	24 IN. ENDWALL 4:1 611-07.58 (EA.)	36 IN. ENDWALL 3:1 611-07.63 (EA.)	48 IN. ENDWALL 3:1 611-07.69 (EA.)	48 IN. ENDWALL 4:1 611-07.70 (EA.)	48 IN. ENDWALL 6:1 611-07.71 (EA.)
SR-50	14+65.00	-41.79	U	D-PE-24A,D-PE-24B	90	10						1				
SR-50	14+65.00	31.86	U	D-PE-24A,D-PE-24B	90							1				
SR-50	20+50	-45.17	U	D-PE-24A,D-PE-24B	90							1				
SR-50	20+50	40.04	U	D-PE-24A,D-PE-24B	90							1				
WILTON CIRCLE 1	501+99.84	-20.61	U	D-PE-36A,D-PE-36B	90								1			
WILTON CIRCLE 1	501+99.84	29.38	U	D-PE-36A,D-PE-36B	90								1			
WILTON CIRCLE 3	103+31.71	21.25	U	D-PE-18A,D-PE-18B	90				1							
WILTON CIRCLE 3	103+31.61	-20.35	U	D-PE-18A,D-PE-18B	90				1							
WILTON CIRCLE 3	104+65.43	-12.22	U	D-PE-18A,D-PE-18B	60	6			1							
WILTON CIRCLE 3	104+84.26	20.56	U	D-PE-18A,D-PE-18B	60					1						
JOYCE LN	400+70	32.10	U	D-PE-48A,D-PE-48B	90											1
JOYCE LN	400+70	-31.44	U	D-PE-48A,D-PE-48B	90											1
SR-50	85+00	52.40	U	D-PE-48A,D-PE-48B	90										1	
SR-50	85+00	-49.63	U	D-PE-48A,D-PE-48B	90			90						1		
SR-50	87+28.99	63.57	U	D-PE-24A,D-PE-24B	90						1					
SR-50	87+28.99	-92.48	U	D-PE-24A,D-PE-24B	90		20				1					
TOTALS						**16**	**20**	**90**	**3**	**1**	**2**	**4**	**2**	**1**	**1**	**2**

BOX CULVERT TABULATION

STATION	LOCATION	SPAN (FT)	HEIGHT (FT)	LENGTH (FT)	SKEW (DEGREE)	DRAINAGE AREA (MI^2)	BOX CULVERT 604-02.01 CLASS "A" CONC. CU. YD.	BOX CULVERT 604-02.02 REINF. STEEL LBS.	CHANNEL EXC. CU. YD.	DRAWING NO.	BACKFILLING ITEM 303-01.01 DWG. STD-10-1 TONS	FOUNDATION FILL ITEM 204-08 MATERIAL CU. YD.
49+85	SR-50	18	6	57	60	3.03	289.99	76833	492	STD-17-105	732	64
10+17	SR-16	14	9	100	90	1.18	432.8	19274	641	STD-17-80	732	63
TOTALS							**723**	**96107**	**1133**		**1464**	**127**

PAVEMENT QUANTITIES

LOCATION	303-01 (TONS) AGG.GR"D"	307-02.02 (TONS) GR "A-S"	307-02.03 (TONS) GR "A-S"	307-02.01 (TONS) GR "A"	307-01.08 (TONS) GR "BM-2"	307-02.08 (TONS) GR "BM-2"	309-01.01 (TONS) GR "A-CBC"	309-01.02 (TONS) PC "A-CBC"	309-02 (TONS) BM "A-CBC"	313-03 (S.Y.) TREAT PERM	402-01 (TONS) PRIME COAT	402-02 (TONS) PRIME COAT(COVER)	403-01 (TONS) TACK COAT	411-01.10 (TONS) GR "D"	411-02.10 (TONS) GR "D"	411-01.07 (TONS) GR "E"	501-01 (S.Y.) PORT CEM
	PAY ITEMS																
SR-50 "ALT A"	44162				3115						36.1	47.5	55.5	1624		419	
SR-50 "ALT B"	23574				3115		7742	299	20.7		36.1	47.5	55.5	1624		419	
SR-15 (NORTH END)	639	3	85	113		74					1.1	1.1	0.5	43	8		
SR-15 (SOUTH END)	1016	5	135	178		116					1.7	1.7	0.9	68	11		
ROUNDABOUT "ALT C"	753				119		63	2	0.8		1.4	1.4	2.1	62			
ROUNDABOUT "ALT D"	565									940							940
SR-16	3344				291						4.0	4.0	1.1	152		25	
SR-50 SIDE ROADS																	
COUTTA CIRCLE	439				101						1.3	1.3	0.3	53			
OLD SR-50	2971				185						2.7	2.7	0.9	96		24	
DRY CREEK RD 1	438				53						1.4	1.4	0.3	53			
DRY CREEK RD	761				143						2.1	2.1	0.5	74			
WILTON CIRCLE 1	836				167						2.4	2.4	0.5	87			
WILTON CIRCLE 2	570				132						1.7	1.7	0.4	69			
WILTON CIRCLE 3	728				113						1.7	1.7	0.4	66		6	
JOYCE LANE	2351				445						6.6	6.6	1.5	232			
DRIVEWAYS	1297				232						8.7	8.7	8.2	411			
"ALT AA1" TOTALS	**60305**	**7**	**220**	**291**	**5096**	**190**	**63**	**2**	**1**		**73**	**84**	**73**	**3090**	**19**	**473**	
"ALT AA2" TOTALS	**60117**	**7**	**220**	**291**	**4976**	**190**				**940**	**72**	**83**	**71**	**3028**	**19**	**473**	**940**
"ALT AA3" TOTALS	**39717**	**7**	**220**	**291**	**5096**	**190**	**7805**	**301**	**21**		**73**	**84**	**73**	**3090**	**19**	**473**	
"ALT AA4" TOTALS	**39529**	**7**	**220**	**291**	**4976**	**190**	**7742**	**299**	**21**	**940**	**72**	**83**	**71**	**3028**	**19**	**473**	**940**

***NOTE : "ALT AA1" = SR-50 "ALT A" + ROUNDABOUT "ALT C" + SR-15 + SR-16 + SR-50 SIDE ROADS**
"ALT AA2"= SR-50 "ALT A" + ROUNDABOUT "ALT D" + SR-15 + SR-16 + SR-50 SIDE ROADS
"ALT AA3" = SR-50 "ALT B" + ROUNDABOUT "ALT C" + SR-15 + SR-16 + SR-50 SIDE ROADS
"ALT AA4" = SR-50 "ALT B" + ROUNDABOUT "ALT D" + SR-15 + SR-16 + SR-50 SIDE ROADS

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2R

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	BRIDGE END GUARDRAIL 705-01.01 (L.F.)	SINGLE TYPE 2 GUARDRAIL 705-02.02 (L.F.)	TYPE 13 TERMINAL 705-04.03 (EACH)	TYPE 38 TERMINAL 705-04.07 (EACH)	REMARKS
4B	SR-50	31.90		20+00.05	20+50.00				1	
4B	SR-50	30.90		20+50.00	21+50.00		103.24			
4B	SR-50	30.90		21+50.00	21+99.95				1	
7B	SR-50	24.25		48+75.00	49+25.00				1	
7B	SR-50		24.25	49+00.00	49+50.00				1	
7B	SR-50	23.25		49+25.00	50+25.00		100.00			
7B	SR-50		23.25	49+50.00	50+50.00		100.00			
7B	SR-50	23.25		50+25.00	50+75.00				1	
7B	SR-50		23.25	50+50.00	51+00.00				1	
7B	SR-50	29.00		58+70.65	59+20.65				1	
7B	SR-50	28.02		59+19.34	59+59.71		140.04			
7B	SR-50	138.00		59+40.48	59+40.48			1		
8B	SR-50	45.08		63+77.44	63+77.44			1		
8B	SR-50	28.00		63+77.44	66+42.03		294.27			
8B	SR-50	41.98		66+40.66	66+40.66			1		
8B	SR-50		29.00	67+00.00	67+50.00				1	
8B	SR-50		28.00	67+50.00	68+50.00		102.94			
8B	SR-50		28.00	68+50.00	69+00.00				1	
9B	SR-50	29.00		81+50.00	82+00.00				1	
9B,10B	SR-50	28.00		82+00.00	85+50.00		352.53			
10B	SR-50	28.00		85+50.00	86+00.00				1	
9B	JOYCE		1543.04	399+96.73	400+08.39				1	
9B	JOYCE		1527.65	400+08.39	400+66.99		102.94			
9B	JOYCE		1443.09	400+66.99	400+93.77				1	
9B	JOYCE	574.70		401+53.88	401+53.88			1		
9B	JOYCE	574.79		401+78.06	401+78.06			1		
9B	JOYCE	571.99		401+80.07	401+80.07			1		
9B	JOYCE	571.99		401+80.07	401+80.07			1		
9B	JOYCE	21.66		404+50.66	405+00.66				1	
9B,11B	JOYCE	20.67		404+99.39	406+00.84		104.17			
11B	JOYCE	19.86		406+00.84	406+50.84				1	
10B	SR15	13.30		700+00.00	700+24.22	24.44				
10B	SR15		12.68	700+00.00	700+43.52		44.03			
10B	SR15	16.54		700+24.22	700+73.64				1	
10B	SR15		19.33	700+43.52	700+51.56		17.41			
10B	SR15		32.50	700+51.56	700+51.56			1		
TOTALS						25.00	1461.57	8	16	

RIP-RAP & TRM DITCHES

STATION FROM	STATION TO	SIDE LT	SIDE RT	WIDTH (L.F.)	CLASS A-1 RIP-RAP 709-05.06 (TONS)	CLASS B RIP-RAP 709-05.08 (TONS)	TRM (CLASS II) 805-01.02 (S.Y.)	REMARKS
601+02.38	602+91.92		X	4				COUTTA CIRCLE
600+99.66	602+65.97	X		4				COUTTA CIRCLE
1.53.00	2+68.04			4				STA14+65-SR-50
12+00.34	19+75.00		X	4				SR-50
13+05.27	18+84.00	X		4				SR-50
201+01.90	203+25.00	X		4				OLD SR-50
22+75.00	49+00.00	X		4				SR-50
23+74.00	49+50.00		X	4				SR-50
200+76.47	202+63.62	X		4				DRY CK RD 1
200+76.47	204+66.18		X	4				DRY CK RD 1
204+66.18	205+57.95		X	11.7	70			DRY CK RD 1
300+44.97	301+77.05		X	4				DRY CK RD
300+44.65	301+72.61	X		4				DRY CK RD
50+19.56	58+74.78	X		4				SR-50
52+75.05	53+58.74		X	4				SR-50
502+74.56	503+18.00		X	4				WILTON CIRCLE 1
1+00.00	1+95.01			4				STA. 502+00-WILTON CIRCLE 1
500+75.00	503+25.00	X		4				WILTON CIRCLE 1
500+75.00	503+25.00	X		3.1	50			WILTON CIRCLE 1
54+55.00	65+10.80		X	4				SR-50
205+99.97	207+94.43	X		4				WILTON CIRCLE 2
60+22.57	60+78.78	X		4				SR-50
62+50.00	63+42.87	X		4				SR-50
67+00.00	80+50.00	X		4				SR-50
68+75.00	80+25.00		X	4				SR-50
70+50.00	80+18.00		X	4			430	SR-50
1+00.00	2+21.19			4				STA. 103+31-WILTON CIRCLE 3
100+48.00	103+28.00		X	4				WILTON CIRCLE 3
100+47.00	103+28.00	X		4				WILTON CIRCLE 3
103+83.86	104+61.48	X		4				WILTON CIRCLE 3
3+00.00	3+80.00		X	4				STA. 104+88-WILTON CIRCLE 3
81+50.00	82+76.56		X	6.1	50			SR-50
401+00.00	410+00.00		X	4			412	JOYCE LANE
400+72.92	410+00.00	X		4				JOYCE LANE
83+77.79	86+25.00		X	6		96		SR-50
7+24.71	9+77.54	X		8				SR-16
TOTALS					170	96	842	

R.O.W. MARKERS

SHEET NO.	QUANTITIES "A"	"B"	"C"	TOTALS
4,4A	6	7	12	25
5,5A	10	3	5	18
6,6A	3			3
7,7A	7		5	12
8,8A	9	1	5	15
9,9A	8		6	14
10,10A	3	1	10	14
11,11A			1	1
TOTALS	46	12	44	102

ESTIMATED TREE QUANTITIES

	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1.)	802-03.01	SHRUBS (YUCCA FILAMENTOS)	3	EACH
1.)	802-03.02	SHRUBS (BUXUS MICROPHILLA)	64	EACH
	802-04.70	GROUND COVER (JUNIPERUS HORIZONTALIS)	300	EACH
	802-12.02	ACER RUBRUM (RED MAPLE SEEDLNG B.R.)	9	EACH
	802-12.03	ACER SACCHARINUM (SILVER MAPLE SEEDLNG B.R.)	8	EACH
	802-12.20	NYSSA AQUATICA (SWAMP TUPELO SEEDLNG B.R.)	8	EACH
	802-12.26	PLATANUS OCCIDENTALIS (SYCAMORE SEEDLNG B.R.)	8	EACH
	802-12.38	QUERCUS PHELLOS (WILLOW OAK SEEDLNG B.R.)	8	EACH
	TOTAL		408	

FOOTNOTE
1) QTY INCLUDED FOR ROUNDABOUT.

ESTIMATED GRADING QUANTITIES

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.) COMMON - C.Y.	S. ROCK - C.Y.	BORROW EXCAVATION UNCL. - C.Y.	S. ROCK - C.Y.	CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.	UNDER CUT C.Y.
12+00.00-88+84.00-SR-50	69404		29963	16107	1133		19405	9075
601+00.00-603+14.00-COUTTA CIRCLE	176						22	
200+70.00-205+58.00-OLD SR-50	116						1503	
200+75.00-202+70.00-DRY CK RD 1	262						0	
300+00.00-303+30.00-DRY CK RD	340						3156	
500+00.00-503+25.00-WILTON CIRCLE 1	98						764	
205+60.00-208+41.00-WILTON CIRCLE 2	68						529	
100+00.00-103+50.00-WILTON CIRCLE 3	757						17	
400+00.00-410+00.00-JOYCE LANE	6762						333	
700+00.00-702+00.00-SR-15 NORTH END	22						1192	
601+00.00-604+00.00-SR-15 SOUTH END	360						910	
5+00.00-11+85.00-SR-16	1356			7848			6119	7770
0+00.00-4+65.00-ROUNDABOUT	37						21230	
SPECIAL DITCHES	441						0	
DRIVEWAYS	2529						3270	
TOTALS	82728	0	29963	23955	1133	0	58450	16845

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	2S

SIGNS (CONSTRUCTION) 712-06

QUANTITY	M.U.T.C.D. NO.	DESCRIPTION	SIZE IN X IN		ITEM NO. 712-06 (S.F.)	REMARKS
12	(G20-2)	END ROAD WORK	36	18	54	*
2	(M1-4)	US-64	24	24	8	
2	(M3-1)	NORTH SIGN	24	12	4	
2	(M4-3)	BUSINESS	24	12	4	
1	(M6-1 L)	LEFT ARROW	21	15	2.1875	
1	(M6-1 R)	RIGHT ARROW	21	15	2.1875	
4	(R1-1)	STOP SIGN	30	30	25	
4	(R1-3P)	ALL WAY	30	12	10	
9	(R11-2)	ROAD CLOSED	48	30	90	*
2	(R11-3A)	ROAD CLOSED LOCAL TRAFFIC ONLY	48	30	20	
4	(W3-1)	STOP AHEAD SYMBOL	30	30	25	
5	(W20-1)	ROAD WORK AHEAD	36	36	45	*
2	(W20-1)	ROAD WORK 1 MILE	36	36	18	*
6	(W20-1)	ROAD WORK 1/2 MILE	36	36	54	*
6	(W20-1)	ROAD WORK 1000 FT	36	36	54	*
4	(W20-1)	ROAD WORK 500 FT	36	36	36	
2	(W20-3)	ROAD CLOSED AHEAD	36	36	18	*
1	(W24-1 R)	RIGHT DOUBLE REVERSE CURVE(1 LANE)	36	36	9	
		* SIGNS TO BE USED IN PHASE 1 AND PHASE 2.				
					478	TOTAL

SEE FIGURE 6F-1 OF FIGURES SHOWN IN CURRENT M.U.T.C.D. THIS CONSTRUCTION SIGNING IS TO BE CONSTRUCTED AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.

TEMPORARY TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	1771	L.F.
	712-05.03	WARNING LIGHTS (TYPE C)	2	EACH
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	125	EACH
1.)	712-07.03	TEMPORARY BARRICADES (TYPE III)	240	L.F.
	712-08.03	ARROW BOARD (TYPE C)	1	EACH
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	2	EACH
2), 3)	716-01.11	RAISED PVMT MARKERS (BI-DIRECTIONAL) (1 COLOR LENS)	42	EACH
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	1.0	L.M.
	716-05.05	PLASTIC PAVEMENT MARKING (STOP LINE)	146	L.F.

FOOTNOTE

1) QTY INCLUDED IS TO BE USED FOR PHASE 1 AND PHASE 2.

2) MISSING RAISED PAVEMENT MARKERS SHALL BE REPLACED: A) AT LEAST MONTHLY OR B) AT THE INSTRUCTION OF THE ENGINEER.

3) ALL RAISED PAVEMENT MARKERS SHALL BE REMOVED BEFORE PLACEMENT OF THE FINAL PAVEMENT SURFACE. THE COST OF REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR RAISED PAVEMENT MARKERS.

EROSION PREVENTION SEDIMENT CONTROL QUANTITIES

LOCATION	PAY ITEMS																						
	203-01 (C.Y.)	209-02.07 (L.F.)	209-05 (C.Y.)	209-08.02 (L.F.)	209-08.07 (EACH)	209-08.08 (EACH)	*209-09.01 (BAGS)	209-09.03 (EACH)	209-09.43 (EACH)	*209-20.03 (S.Y.)	209-40.32 (EACH)	209-40.42 (EACH)	209-40.46 (EACH)	209-65.04 (L.F.)	303-10.01 (TON)	621-03.03 (L.F.)	*621-03.06 (L.F.)	707-08.11 (L.F.)	709-05.05 (TON)	709-05.06 (TON)	740-10.03 (S.Y.)	740-11.03 (L.F.)	805-12.02 (S.Y.)
	RD DRAIN EXEC.	18" TEMP SLOPE DRAIN	SEDIMENT REMOVAL	TEMP SFB	RCD	ERCD	SANDBAGS	15' x 15' SFB	TYPE 4 CURB INLET	POLY SHEET	TYPE C CB PROTECT	TYPE 2 CB FILTER	TYPE 6 CB FILTER	IN-STREAM DIVERSION	57 STONE	24" TEMP DRAIN CULV	42" TEMP DRAIN CULV	HVF	CLASS A-3 RIP RAP	CLASS A-1 RIP RAP	TYPE 3 GEO FAB	18" SED TUBE	EC BLANKET TYPE 2
STAGE ONE	217	130	135	10343	20	24	934	4		102					55.4	104	302	1387	680.4	118.5	1444	17393	620
STAGE TWO	789	78	188	8967	176	28	934	2		102		1	4	74	46.6		302		226.8	238.9	785	14186	633
STAGE THREE	27		27	6629		18		1	4		1				4.2					22.7	79	17707	
TOTALS	1032	208	350	25939	196	70	934	7	4	102	1	1	4	74	106.2	104	302	1387	907.2	380.1	2307	49286	1253

*QTY IN STAGE ONE TO BE USED IN STAGE ONE AND TWO.

ROUNDABOUT QUANTITIES

LOCATION	PAY ITEMS								
	604-01.01 (C.Y.)	701-01.01 (S.F.)	701-02.03 (S.F.)	701-02.03 (S.F.)	701-02.03 (S.F.)	701-03 (C.Y.)	702-01 (C.Y.)	702-03 (C.Y.)	702-03 (C.Y.)
	TRUCK APRON	4" SIDEWALK	BIKE RAMP	PED REFUGE AREA	HANDICAP RAMP	SPLITTER ISLAND	6" NON-MOUNTABLE CONCRETE CURB	4" MOUNTABLE CONCRETE C&G	6" NON-MOUNTABLE CONCRETE C&G
SR-50			111	90	168	16		24	
SR-15 (NORTH END)			88	82	168	9		13	
SR-15 (SOUTH END)			108	93	168	25		40	
ROUNDABOUT	82	12889					14	32	128
SR-16			80	76	168	10		16	
TOTALS	82	12889	387	341	672	60	14	125	128

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	3
CONST.	2015	STP-50(31)	3

REV 07-29-14-UPDATED UTILITY OWNERS.
REV 10-17-14-UPDATED UTILITY OWNERS.

UTILITY OWNERS

UTILITY	OWNER	PHONE NO.	CONTACT	ADDRESS	CITY	STATE	ZIP CODE
CABLE TV	COMCAST	(615) 244-7462	MR.DOAK SHARROCK	2501 McGavock Pike Ste 1200	NASHVILLE	TN	37214-1239
ELECTRIC	DUCK RIVER ELECTRIC MEMBERSHIP CORP.	(931) 684-4621	MR. BLAKE BUTLER	1411 Madison Street	SHELBYVILLE	TN	37160
ELECTRIC	WINCHESTER UTILITIES	(931) 967-2238	MR. CHRIS ZIMMERMAN	219 Second Avenue NW	WINCHESTER	TN	37398
ELECTRIC	TENNESSEE VALLEY AUTHORITY	(423) 751-7118	MS. MISSY DAVIS	1101 Market Street MR3F	CHATTANOOGA	TN	37402
GAS	ELK RIVER PUBLIC UTILITY DISTRICT	(931) 455-9311	MR. EDDIE MOFFITT	217 South Jackson Street	TULLAHOMA	TN	37388-0970
SEWER	WINCHESTER UTILITIES	(931) 967-2238	MR. TIM SOLOMON	219 Second Avenue NW	WINCHESTER	TN	37398
TELEPHONE	BELLSOUTH dba AT&T	(615) 848-2082	MR.KENNETH LEE KORNEGAY	116 South Cannon Avenue	MURFREESBORO	TN	37129
TELEPHONE	UNITED TELEPHONE COMPANY	(931) 364-4350	MR.DOUG PRUITT	120 Taylor Street	CHAPEL HILL	TN	37034
WATER	WINCHESTER UTILITIES	(931) 967-2238	MR. TIM SOLOMON	219 Second Avenue NW	WINCHESTER	TN	37398

RIGHT - OF - WAY NOTES

(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, ROOADWAY DESIGN DIVISION AND THE CIVIL ENGINEERING MANAGER 1, REGIONAL ROOADWAY DESIGN OFFICE, ARE 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.

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R.O.W NOTES AND UTILITY OWNERS

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

REV. 06/28/12 - REVISED TRACT 12, 17, & 24
REV. 07/12/12 - REVISED TRACT 3-A, 6, 11, & 20
REV. 07/20/12 - REVISED TRACT 11 & 21
REV. 08/29/13 - REVISED TRACT 24.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	3A
CONST.	2015	STP-50(31)	3A

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	SANDRA NEAL & BETTIE FELLER	064	100.00	169	139		57.594	57.594		1256 S.F.	1256 S.F.		57.565				
		064	099.00	169	139	33.004		33.004				33.004					
~~2~~	~~CHARLES F. FELLER AND WIFE BETTIE JEAN FELLER~~	064	101.01	302	216	3.065		3.065				3.065					
3	SUSAN ANNETTE FRAME	064	101.00	373	744	1.120		1.120	0.109		0.109	1.011					
~~3-A~~	~~JEREMY LARRY FRAME AND WIFE AUDREY RESHAE FRAME~~	064	101.03	373	740	1.150		1.150				1.150					
4	JIMMY DUANE COUTTA	064	103.08	344	55	4.796		4.796	0.362		0.362	4.434		3790			
5	ROBERT P. PFEIL	064	105.01	279	31		10.469	10.469		0.256	0.256		10.213				
6	GLENDA PFEIL SADLER	064	105.00	279	33	842 S.F.	10.458	10.477	842 S.F.	0.355	0.374		10.103				
7	ANGELINE S. HILL	064	106.00	140	46	2.173	19.221	21.394	1.421	1.466	2.887	0.752	17.755			1120	
8	JAMES E. SISK AND WIFE, JENNY R. SISK	064	107.00	334	344	4.995	1.794	6.789	1.840	1.013	2.853	3.155	0.781				
9	PATRICIA A. DAVIS	064	108.00	329	325	0.864		0.864	964 S.F.		964 S.F.	0.842					
10	WILLIAM T. SISK, JR. AND JAMES E. SISK D/B/A GREEN HILL NURSERY	064	109.00	224	701	8.489		8.489	730 S.F.		730 S.F.	8.472					
11	MICKEY BAXTER AND WIFE, CATHY BAXTER	075	001.00	216	101	9.921	3292 S.F.	9.997	0.473	3292 S.F.	0.549	9.448					
12	CHARLES E. BROWN AND WIFE CLAUDIA BROWN	074	017.00	185	283		2.551	2.551		3017 S.F.	3017 S.F.		2.482				
13	MIKE P. LYNCH	075	001.01	200	256	41.917	8.424	50.341	2.624	2.449	5.073	39.293	5.975				
14	ROLAND EDWARD STEWART AND WIFE, BOBBIE FAYE STEWART AND JOE F. STEWART (LIFE ESTATE UNTO ROLAND F. STEWART AND WIFE, MARTHA STEWART)	075	002.00	346	507	7.040	7.309	14.349	1.537	1.436	2.973	5.503	5.873			0.112 AC	**
15	LORRAINE E. LYNCH	075	005.02	318	405		39.990	39.990		759 S.F.	759 S.F.		39.973	0.101 AC		1666	**
~~16~~	~~JOHN ROBINSON SCARBOROUGH AND NANCY H. SCARBOROUGH~~	065	004.00	303	162	45.304		45.304				45.304					
17	CITY OF WINCHESTER	075	005.07	116	66	1.691	2.005	3.696	1.013	0.949	1.962	0.678	1.056	1075			
18	STATE OF TENNESSEE, MILITARY DEPARTMENT	075	005.03	227	417	0.412	21.450	21.862		1.103	1.103	0.412	20.347			3154	*
19	FRANKLIN COUNTY, TENNESSEE	075	005.09	268	325	11.994		11.994	2197 S.F.		2197 S.F.	11.944				2746	*
20	FRANKLIN COUNTY GENERAL GOVERNMENT	075	005.10	352	568	18.170	1.806	19.976	1.734	1.129	2.863	16.436	0.677			0.234 AC	*
~~21~~	~~FRANKLIN COUNTY~~	075	005.08	264	680		1.710	1.710					1.710				
21	FRANKLIN COUNTY	075	005.06	247	446		18.300	18.300					18.300	2525			
~~22~~	~~CITY OF WINCHESTER~~	075	005.00	117	271		0.363	0.363					0.363				
23	GARY HORTON	075	005.01	295	207	2.674	18.130	20.804	1.289	4.214	5.503	1.385	13.916	1156			
				295	210												
				347	584												
24	TENNESSEE ELK RIVER DEVELOPMENT AGENCY (TVA / TIM'S FORD RESERVOIR)	075	-	122	159	45.675	1668 S.F.	45.713	0.475	1668 S.F.	0.513	45.200		3203			

* CONST. EASMT FOR RETAINING WALL
** CONST. EASMT FOR EPSC MEASURES

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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	STP-50(31)	3B
CONST.	2015	STP-50(31)	3B

REV. 06/28/12 - REMOVED DRAIN EASMT FROM TRACT 28
REV. 07/12/12 - REVISED TRACT 26 AND TRACT 28

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.	
25	BERTIE RUTH STANLEY	075	11.00	354	213		4.619	4.619		0.308	0.308		4.311				
				221	471												
26	BERTIE RUTH STANLEY	075	011.00	354	213	1.372	233 S.F.	1.377	0.260	233 S.F.	0.265	1.112					
27	CHARLES WAYNE REAGIN AND WIFE MARY ALICE	065	2.01	236	707	5.616		5.616	995 S.F.		995 S.F.	5.593					
28	CITY OF WINCHESTER	075	11.01	126	148	2504 S.F.		2504 S.F.	1243 S.F.		1243 S.F.	1261 S.F.					
~~29~~	~~ANGELINE S. HILL AND HUSBAND BOB C.~~	075	10.00	248	848	5.381		5.381				5.381					
~~30~~	~~PHILLIP C. STANLEY~~	075	11.02	221	471		2.850	2.850					2.850				
~~31~~	~~JOHN C. STANLEY~~	075	11.03	311	439		0.373	0.373					0.373				
~~32~~	~~STEPHANIE TIANNE POWERS~~	075	13.00	351	645		2.416	2.416					2.416				
				302	395												
~~33~~	~~CAROL LYN JACKSON AND JAMES DEAN JACKSON~~	075	14.01	365	731		1.043	1.043					1.043				
~~34~~	~~TENNESSEE VALLEY NURSERY INC.~~	075	14.00	223	202		0.683	0.683					0.683				
~~35~~	~~JEFFERY S. SMITH AND WIFE REBECCA S.~~	075	15.01	319	40		0.692	0.692					0.692				
~~36~~	~~CAROL LYN JACKSON AND JAMES DEAN JACKSON~~	075	15.00	365	731		1.146	1.146					1.146				
~~37~~	~~TENNESSEE VALLEY NURSERY INC.~~	075	16.00	244	740		0.991	0.991					0.991				
38	FRANKLIN CO.	075	29.01	267	326	0.670		0.670	3008 S.F.		3008 S.F.	0.601				1752	**
39	ALTON M. GRIFFIN AND WIFE WILMA	075	29.00	113	72	2.416		2.416	0.604		0.604	1.812					
~~40~~	~~FRANCES E. PISTOLE~~	075	30.00	319	557		5.008	5.008					5.008				
41	W. F. YARBROUGH INC. C/O FRANK VUKELICH	075	35.00	367	715		6.411	6.411					6.411			2487	**
42	DELBERT REED AND WIFE DEBORAH	075	35.04	308	84	1.162		1.162	0.307		0.307	0.855				0.197 AC	
~~43~~	~~WINCHESTER HOLINESS CHURCH C/O/JOHNNY TIDWELL~~	075	35.03	243	720	3.928		3.928				3.928					
44	ALLGAS OF TENNESSEE INC.	075	35.01	277	144	2.111		2.111	2856 S.F.		2856 S.F.	2.045				1099	**
~~45~~	~~WINCHESTER HOLINESS CHURCH C/O/MARK TEET~~	075	35.02	192	273	2.664		2.664				2.664					

** CONST. EASMT FOR EPSC MEASURES

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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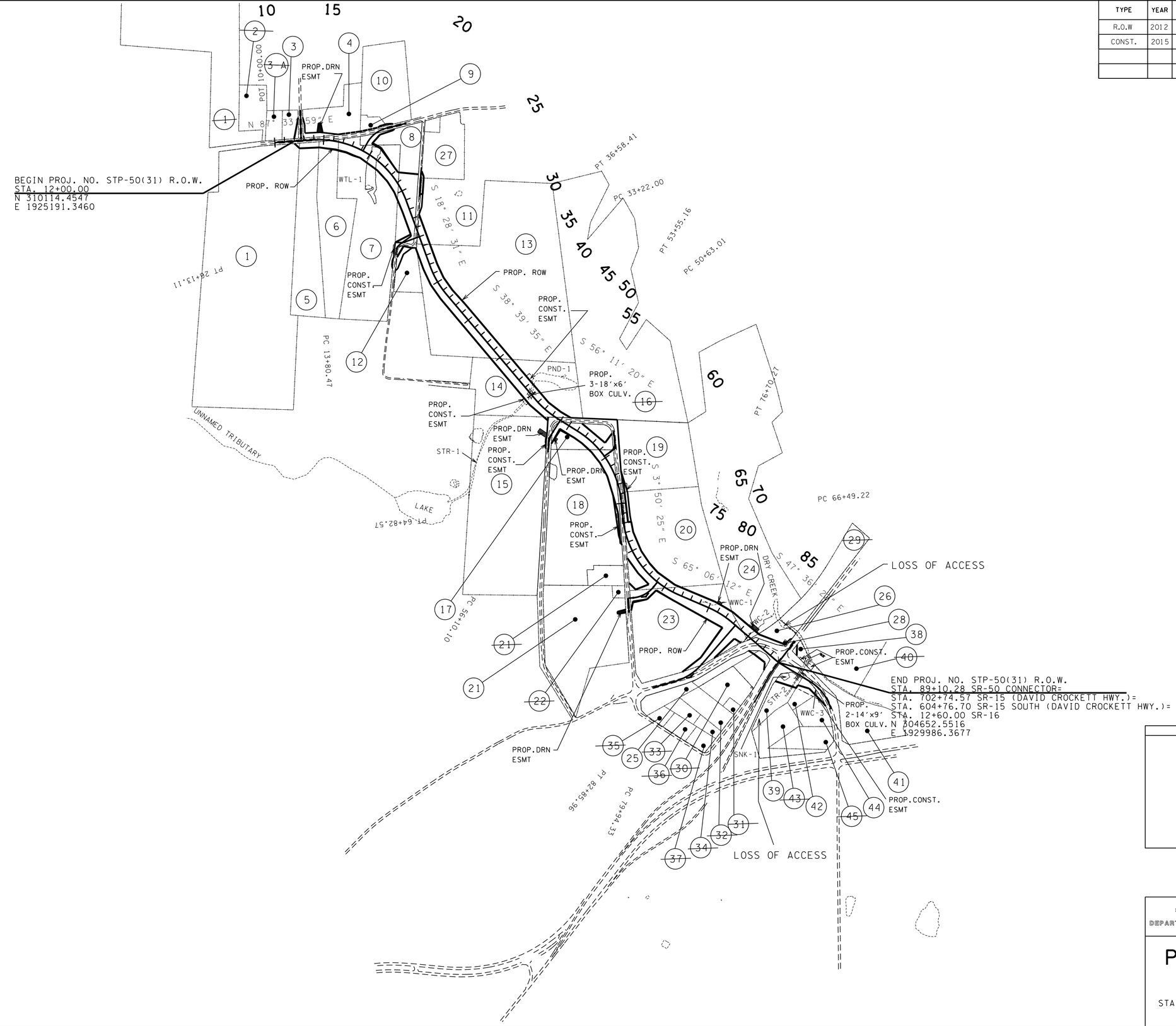
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	3C
CONST.	2015	STP-50(31)	3C



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.10+00 TO STA.90+10

SCALE: 1"=500'

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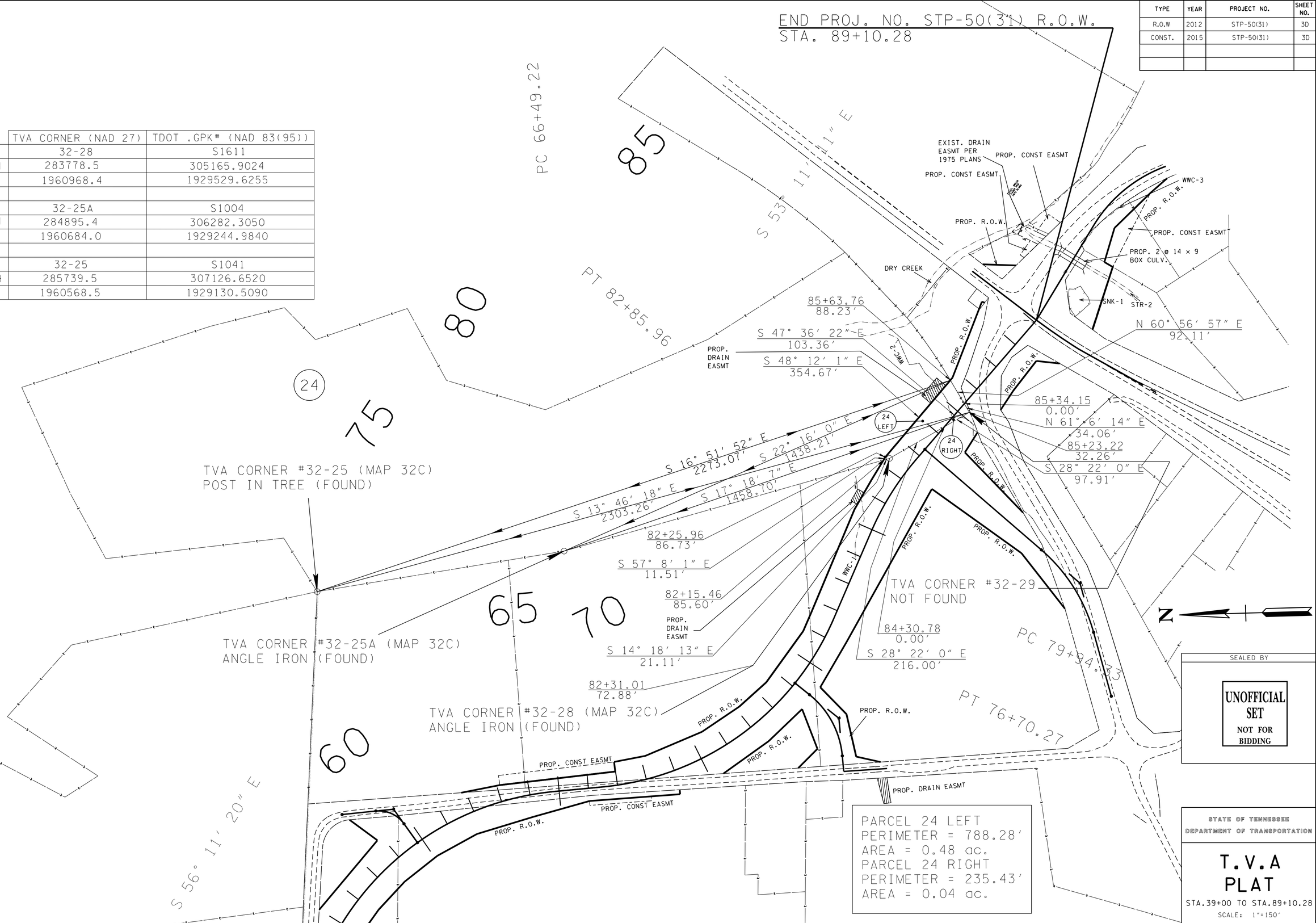
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	3D
CONST.	2015	STP-50(31)	3D

	TVA CORNER (NAD 27)	TDOT .GPK# (NAD 83(95))
	32-28	S1611
NORTH	283778.5	305165.9024
EAST	1960968.4	1929529.6255
	32-25A	S1004
NORTH	284895.4	306282.3050
EAST	1960684.0	1929244.9840
	32-25	S1041
NORTH	285739.5	307126.6520
EAST	1960568.5	1929130.5090



PARCEL 24 LEFT
PERIMETER = 788.28'
AREA = 0.48 ac.
PARCEL 24 RIGHT
PERIMETER = 235.43'
AREA = 0.04 ac.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

T.V.A PLAT

STA.39+00 TO STA.89+10.28

SCALE: 1"=150'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	4
CONST.	2015	STP-50(31)	4

CONTROL POINTS

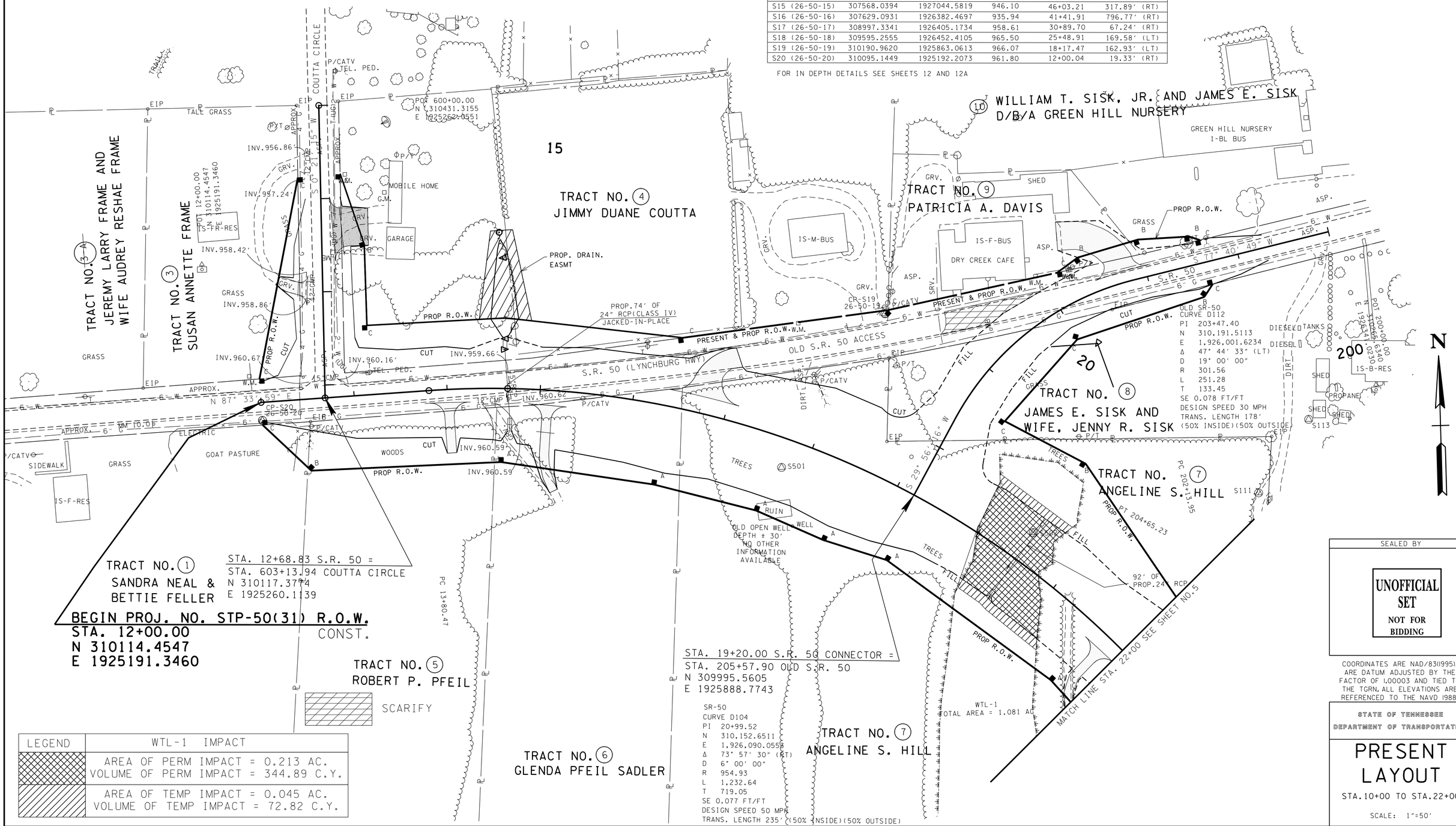
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S45 (26-15-45)	303712.5760	1930648.8418	916.05	-	-
S5 (26-50-05)	304315.8372	1930475.0035	908.32	-	-
S6 (26-50-06)	304836.3178	1929895.3620	907.18	87+25.22	17.59' (LT)
S7 (26-50-07)	304776.5266	1929518.7443	924.58	84+59.53	255.95' (RT)
S8 (26-50-08)	304589.9144	1929103.6519	934.69	82+36.40	654.08' (RT)
S9 (26-50-09)	304343.9694	1928583.6323	945.19	77+34.41	1102.33' (RT)
S10 (26-50-10)	304967.0384	1928463.9259	944.80	74+82.81	617.76' (RT)
S11 (26-50-11)	305675.5373	1928426.3308	963.49	70+88.36	161.71' (RT)
S12 (26-50-12)	306264.9291	1928414.8607	970.48	65+55.98	17.67' (RT)
S13 (26-50-13)	306719.6087	1928425.9453	960.38	61+29.35	94.84' (LT)
S14 (26-50-14)	306941.8156	1927713.8939	935.08	54+37.93	268.17' (RT)
S15 (26-50-15)	307568.0394	1927044.5819	946.10	46+03.21	317.89' (RT)
S16 (26-50-16)	307629.0931	1926382.4697	935.94	41+41.91	796.77' (RT)
S17 (26-50-17)	308997.3341	1926405.1734	958.61	30+89.70	67.24' (RT)
S18 (26-50-18)	309595.2555	1926452.4105	965.50	25+48.91	169.58' (LT)
S19 (26-50-19)	310190.9620	1925863.0613	966.07	18+17.47	162.93' (LT)
S20 (26-50-20)	310095.1449	1925192.2073	961.80	12+00.04	19.33' (RT)

FOR IN DEPTH DETAILS SEE SHEETS 12 AND 12A

REV.07/12/12 - ADDED LINE FOR TRACT 3-A

REV 02/26/14- REVISED PVT DR ON COUTTA CIRCLE AT STA.601+18.27 TO 40' PER ROW REQ.

REV 10-17-14- ADDED BEGIN CONST.



LEGEND	WTL-1 IMPACT
	AREA OF PERM IMPACT = 0.213 AC. VOLUME OF PERM IMPACT = 344.89 C.Y.
	AREA OF TEMP IMPACT = 0.045 AC. VOLUME OF TEMP IMPACT = 72.82 C.Y.

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.10+00 TO STA.22+00

SCALE: 1"=50'

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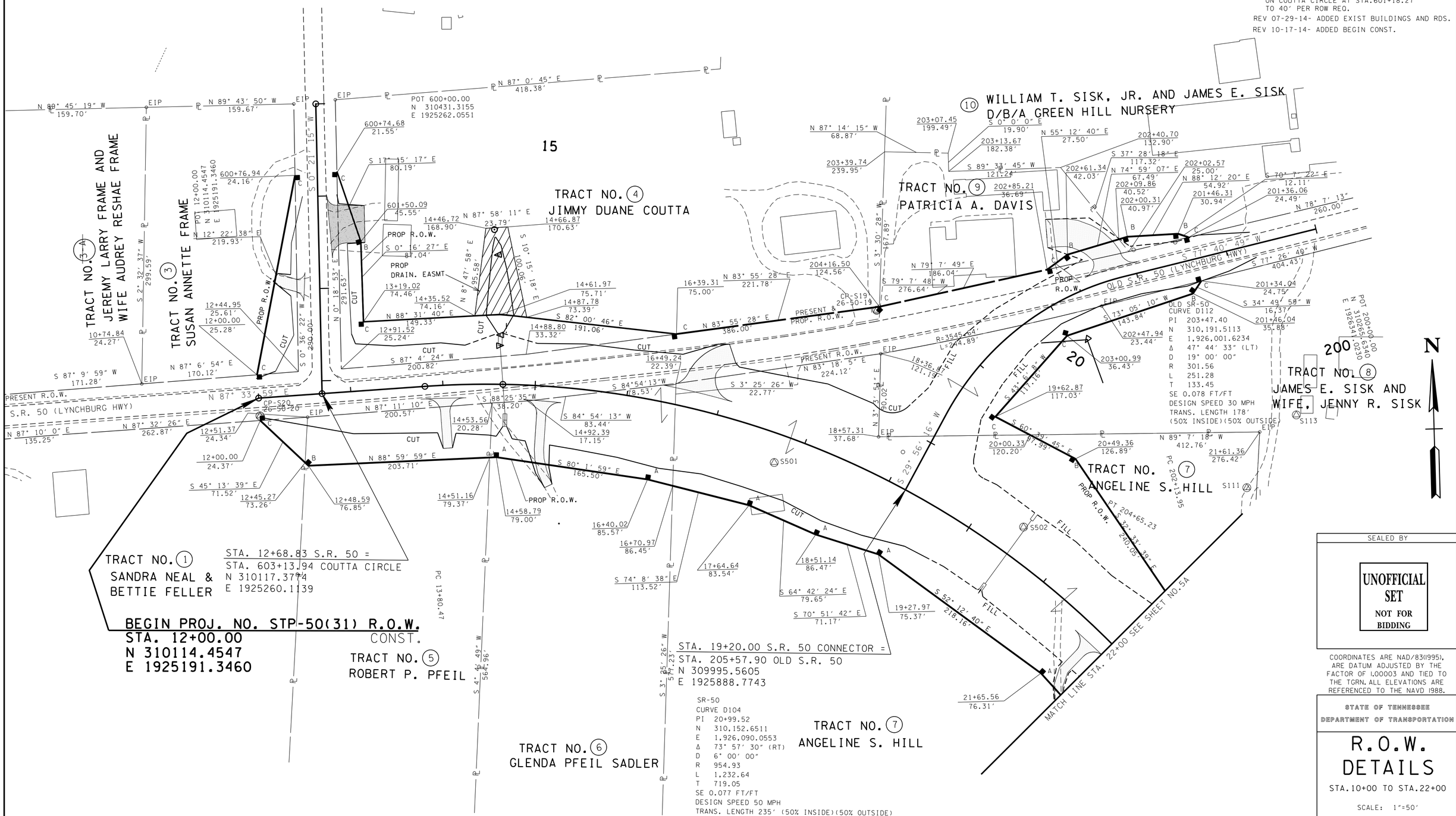
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	4A
CONST.	2015	STP-50(31)	4A

REV. 06/28/12 - ADDED STA. AND OFFSET FLAGS.

REV. 07/12/12 - ADDED LINE TO TRACT 3-A
REV. 08/30/12 - ADDED STA. AND OFFSET TO STA 204+16.50

REV 02/26/14- REVISED PVT DR ON COUTTA CIRCLE AT STA.601+18.27 TO 40' PER ROW REQ.
REV 07-29-14- ADDED EXIST BUILDINGS AND RDS.
REV 10-17-14- ADDED BEGIN CONST.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.10+00 TO STA.22+00

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	STP-50(31)	4B
CONST.	2015	STP-50(31)	4B

REV 02/26/14- REVISED PVT DR ON COUTTA CIRCLE AT STA.601+18.27 TO 40' PER ROW REQ.

REV 08-20-14- ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 10-17-14- REMOVED PVMT MARKINGS. ADDED SCARIFICATION. REVISED PROP GRADED SOLID ROCK. ADDED BEGIN CONST. REVISED NOTE.

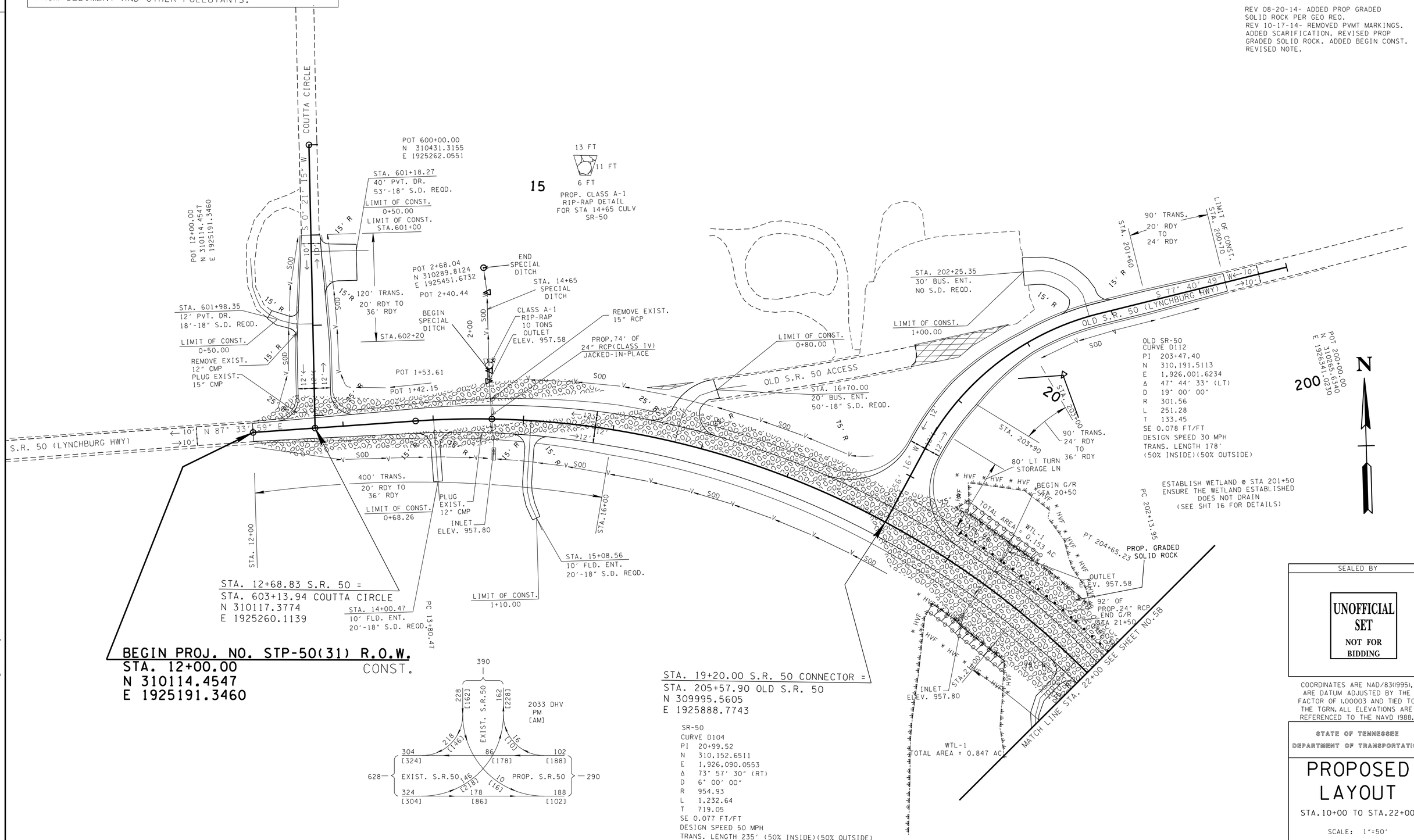
SPECIAL NOTES

REFER TO SHEET 17Z FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLAND WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

AREA TO BE SCARIFIED AND OBLITERATED

AREA OF TEMPORARY IMPACT



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.10+00 TO STA.22+00

SCALE: 1"=50'

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

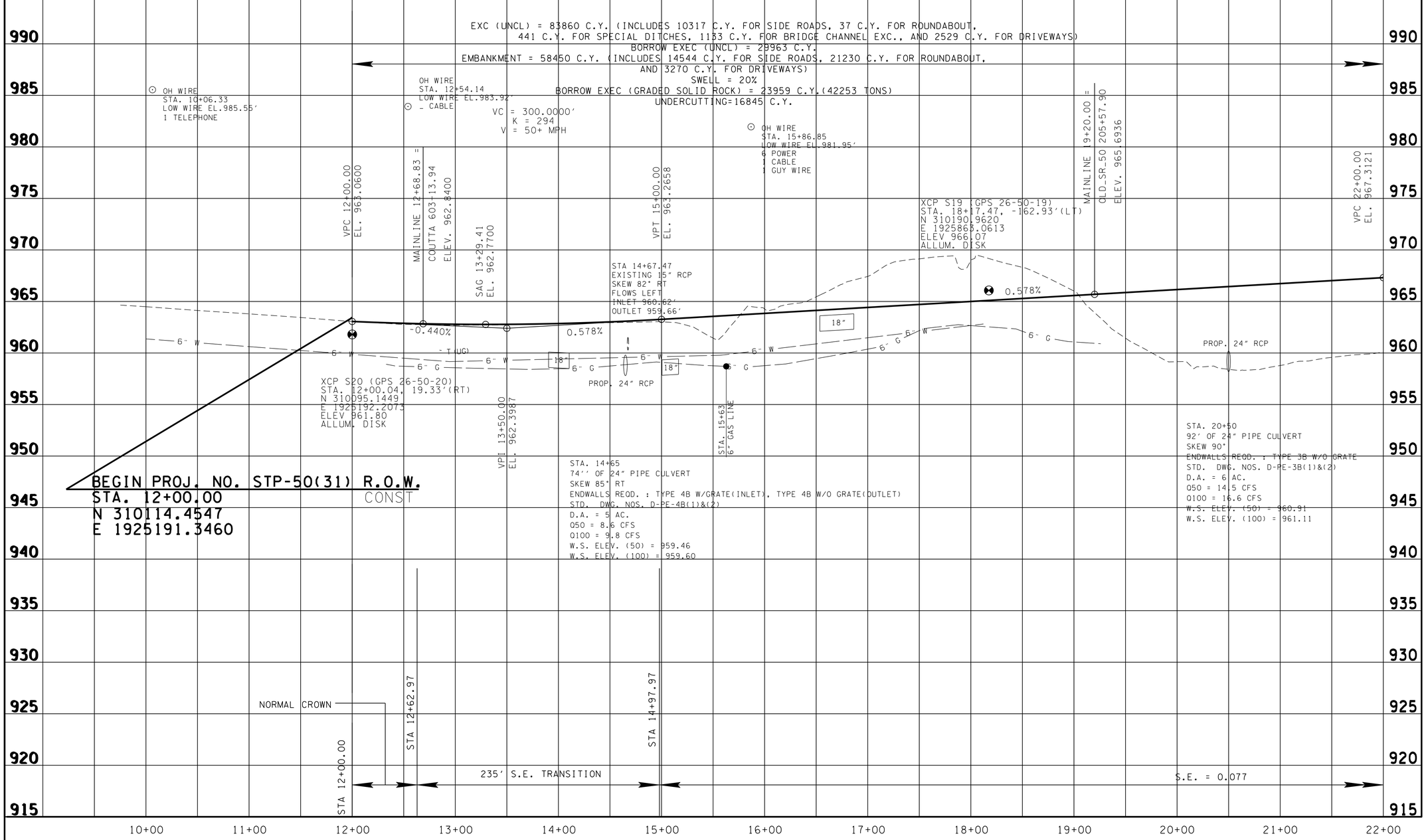
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	4C
CONST.	2015	STP-50(31)	4C

REV 07-29-14-ADDED SIDE DRAIN TABLE AND REVISED EXC EMB QTYS.

REV 10-17-14-ADDED BEGIN CONST. REVISED ALIGNMENT.

SIDEDRAINS

Station	LT	RT	LENGTH (ft)	SIZE (in)
14+00.47		X	20	18
15+08.56		X	20	18
16+70.00	X		50	18



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.10+00 TO STA.22+00
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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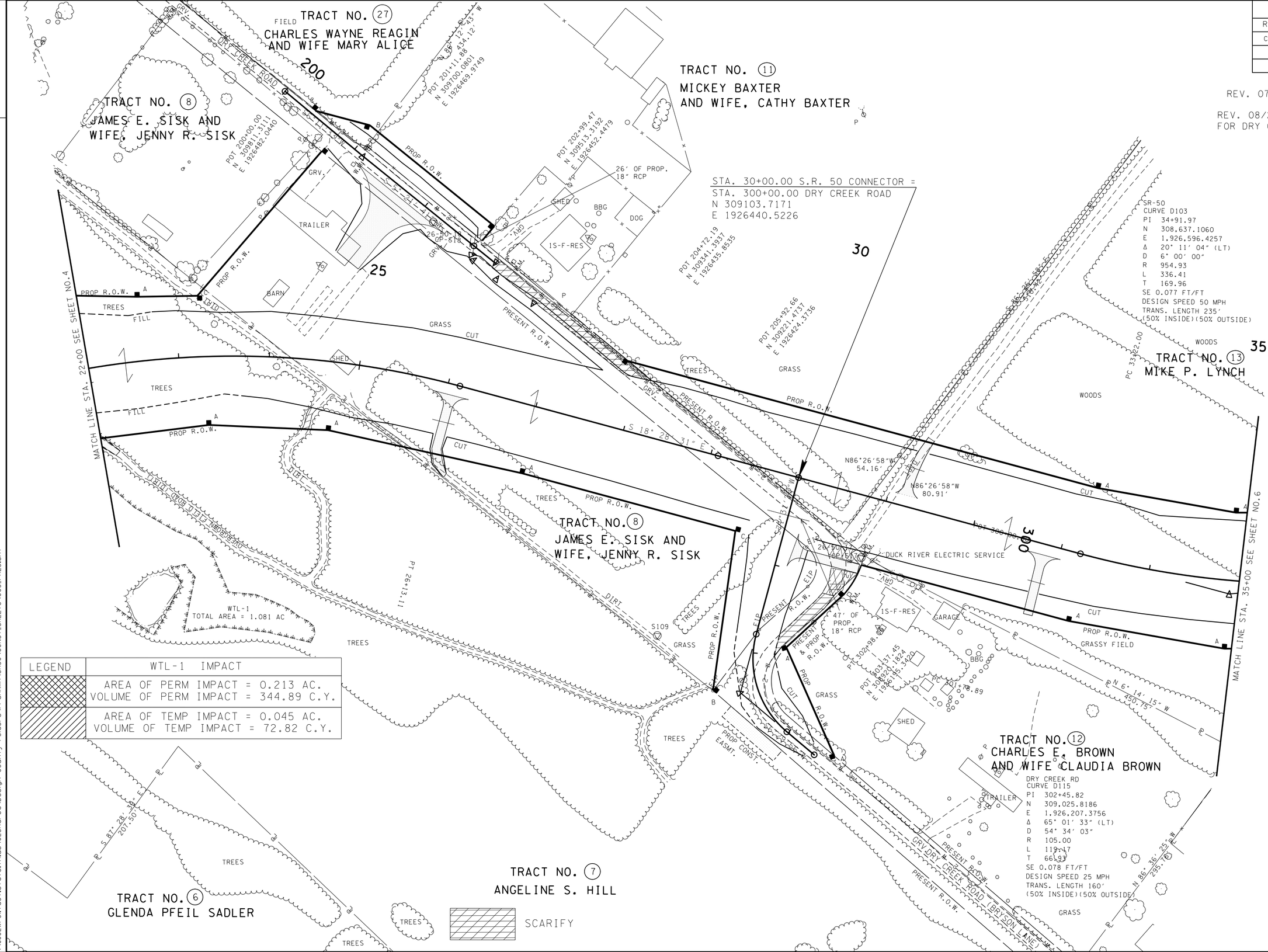
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	5
CONST.	2015	STP-50(31)	5

REV. 07/20/12 - REVISED TRACT 11.

REV. 08/28/12 - REVISED CURVE DATA FOR DRY CK RD.



LEGEND	WTL-1 IMPACT
	AREA OF PERM IMPACT = 0.213 AC. VOLUME OF PERM IMPACT = 344.89 C.Y.
	AREA OF TEMP IMPACT = 0.045 AC. VOLUME OF TEMP IMPACT = 72.82 C.Y.

SCARIFY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.22+00 TO STA.35+00

SCALE: 1"=50'

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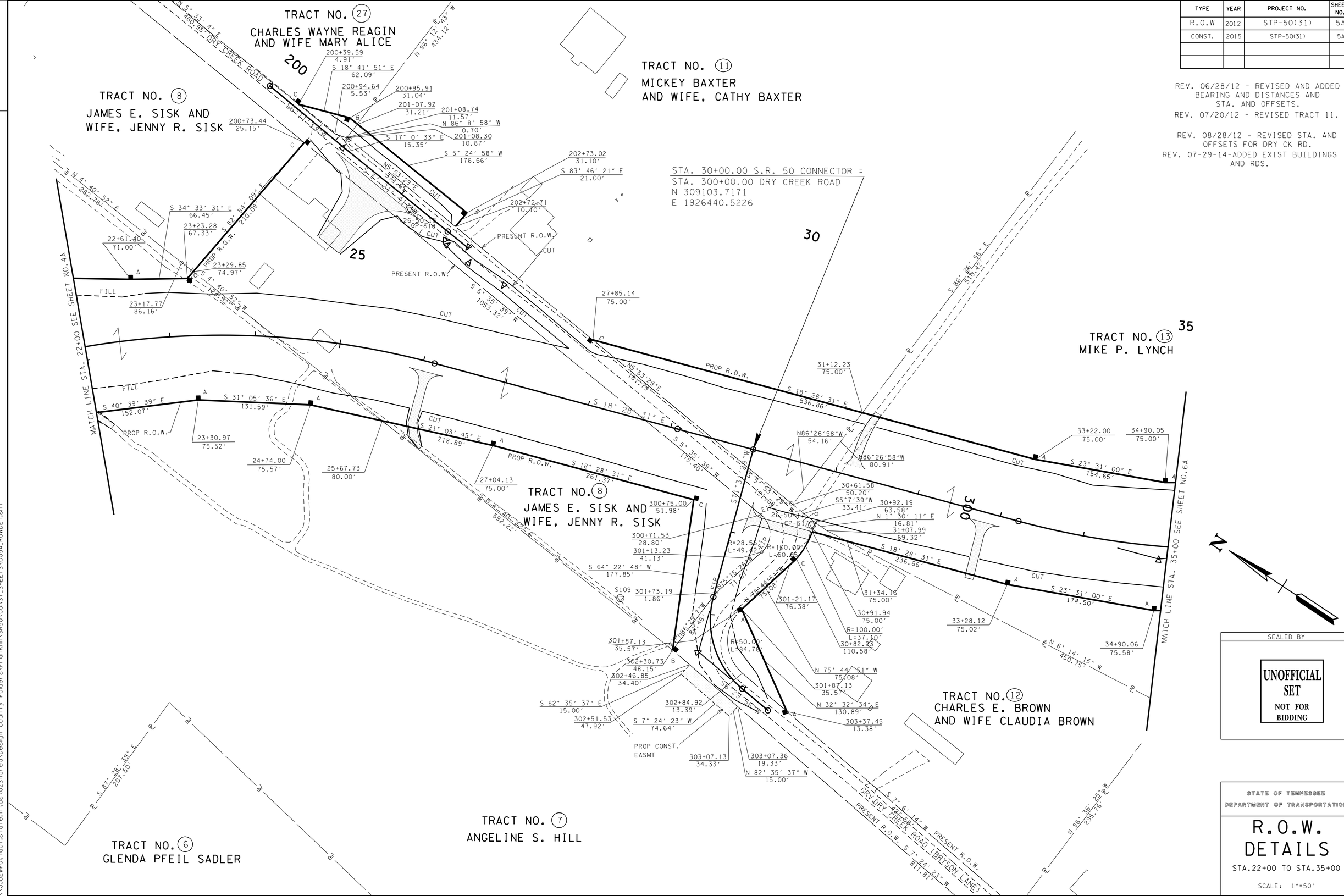
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	5A
CONST.	2015	STP-50(31)	5A

REV. 06/28/12 - REVISED AND ADDED BEARING AND DISTANCES AND STA. AND OFFSETS.
REV. 07/20/12 - REVISED TRACT 11.

REV. 08/28/12 - REVISED STA. AND OFFSETS FOR DRY CK RD.
REV. 07-29-14-ADDED EXIST BUILDINGS AND RDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.22+00 TO STA.35+00

SCALE: 1"=50'

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

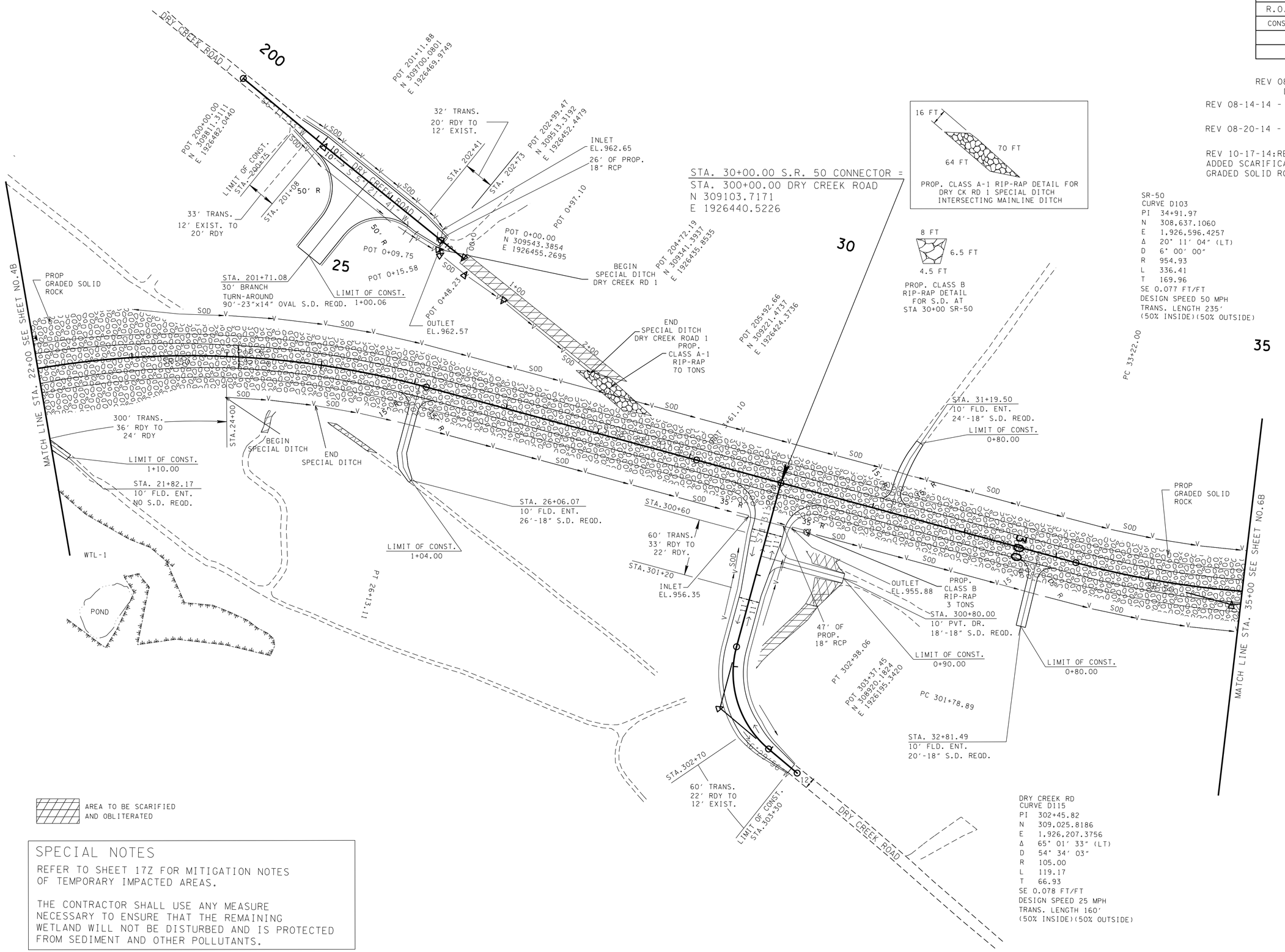
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	5B
CONST.	2015	STP-50(31)	5B

REV 08-28-12 - REVISED CURVE DAT FOR DRY CK RD.

REV 08-14-14 - ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 08-20-14 - ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 10-17-14:REMOVED PVMT MARKINGS. ADDED SCARIFICATION. REVISED PROP GRADED SOLID ROCK.



SR-50
CURVE D103
PI 34+91.97
N 308,637.1060
E 1,926,596.4257
Δ 20° 11' 04" (LT)
D 6° 00' 00"
R 954.93
L 336.41
T 169.96
SE 0.077 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 235'
(50% INSIDE)(50% OUTSIDE)

DRY CREEK RD
CURVE D115
PI 302+45.82
N 309,025.8186
E 1,926,207.3756
Δ 65° 01' 33" (LT)
D 54° 34' 03"
R 105.00
L 119.17
T 66.93
SE 0.078 FT/FT
DESIGN SPEED 25 MPH
TRANS. LENGTH 160'
(50% INSIDE)(50% OUTSIDE)

AREA TO BE SCARIFIED AND OBLITERATED

SPECIAL NOTES

REFER TO SHEET 17Z FOR MITIGATION NOTES OF TEMPORARY IMPACTED AREAS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLAND WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.22+00 TO STA.35+00

SCALE: 1"=50'

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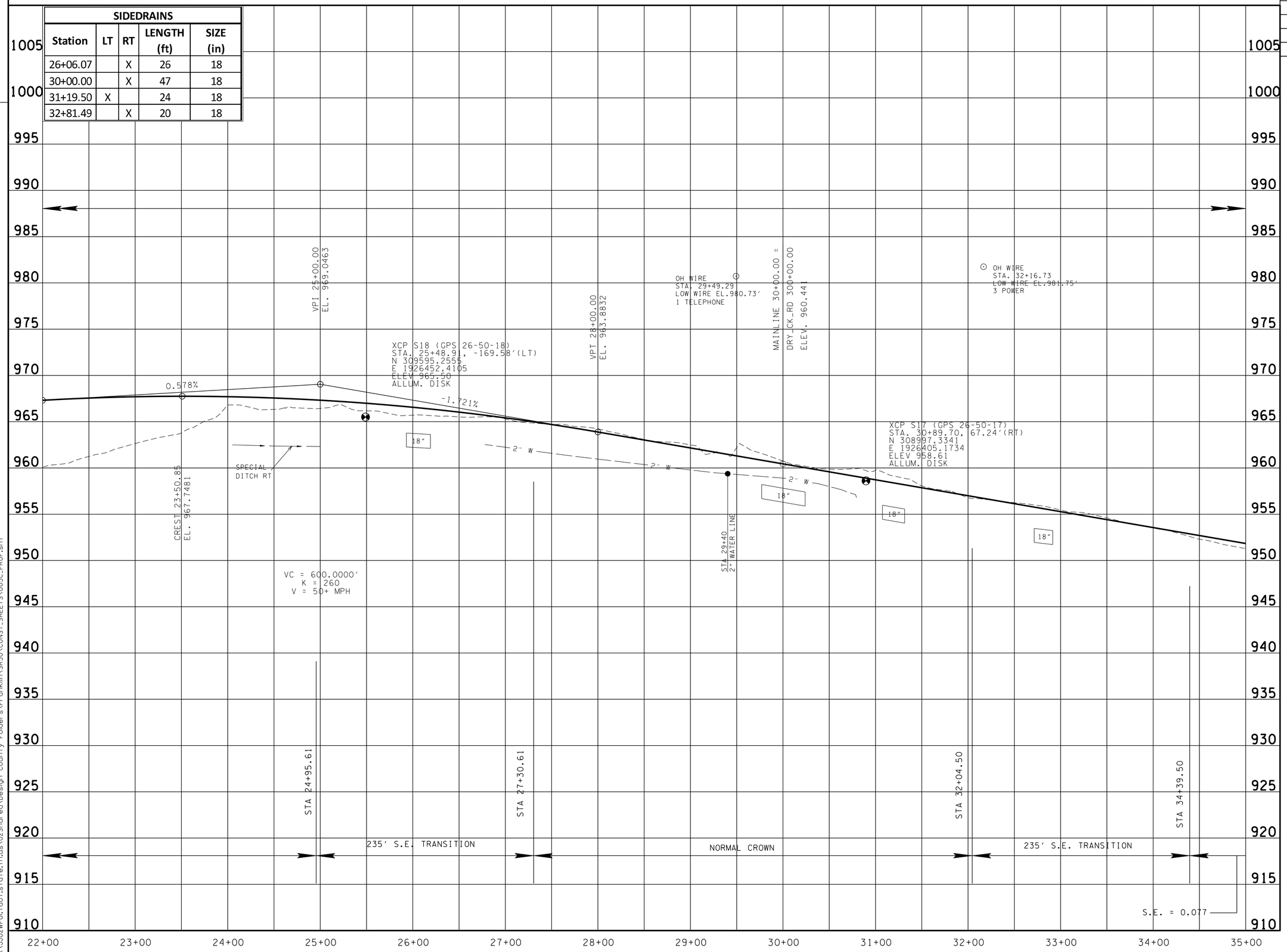
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	5C
CONST.	2015	STP-50(31)	5C

REV 07-29-14-ADDED SIDEDRAIN TABLE.

SIDEDRAINS

Station	LT	RT	LENGTH (ft)	SIZE (in)
26+06.07		X	26	18
30+00.00		X	47	18
31+19.50	X		24	18
32+81.49		X	20	18



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.22+00 TO STA.35+00
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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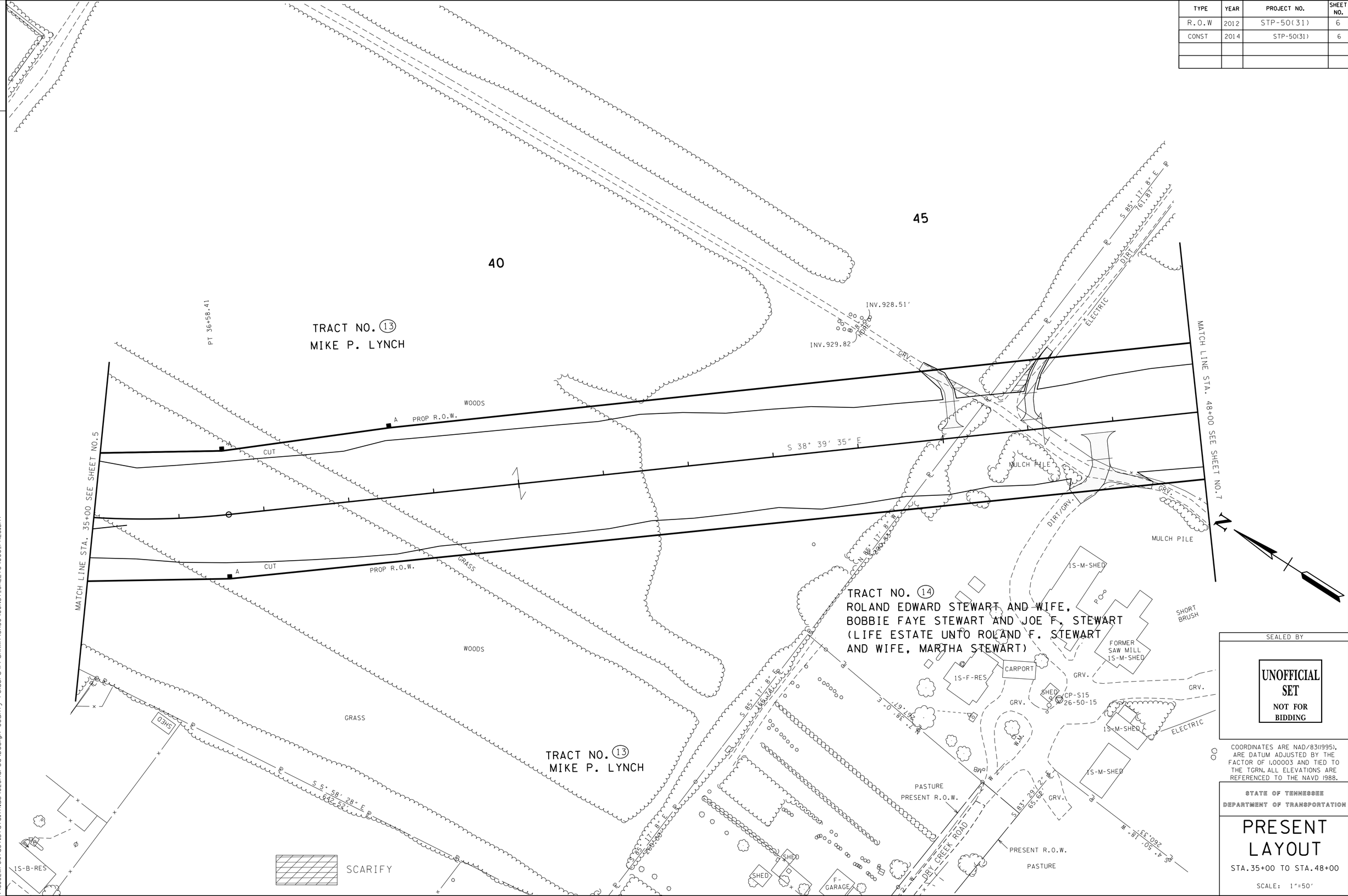
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	6
CONST	2014	STP-50(31)	6

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



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.35+00 TO STA.48+00

SCALE: 1"=50'

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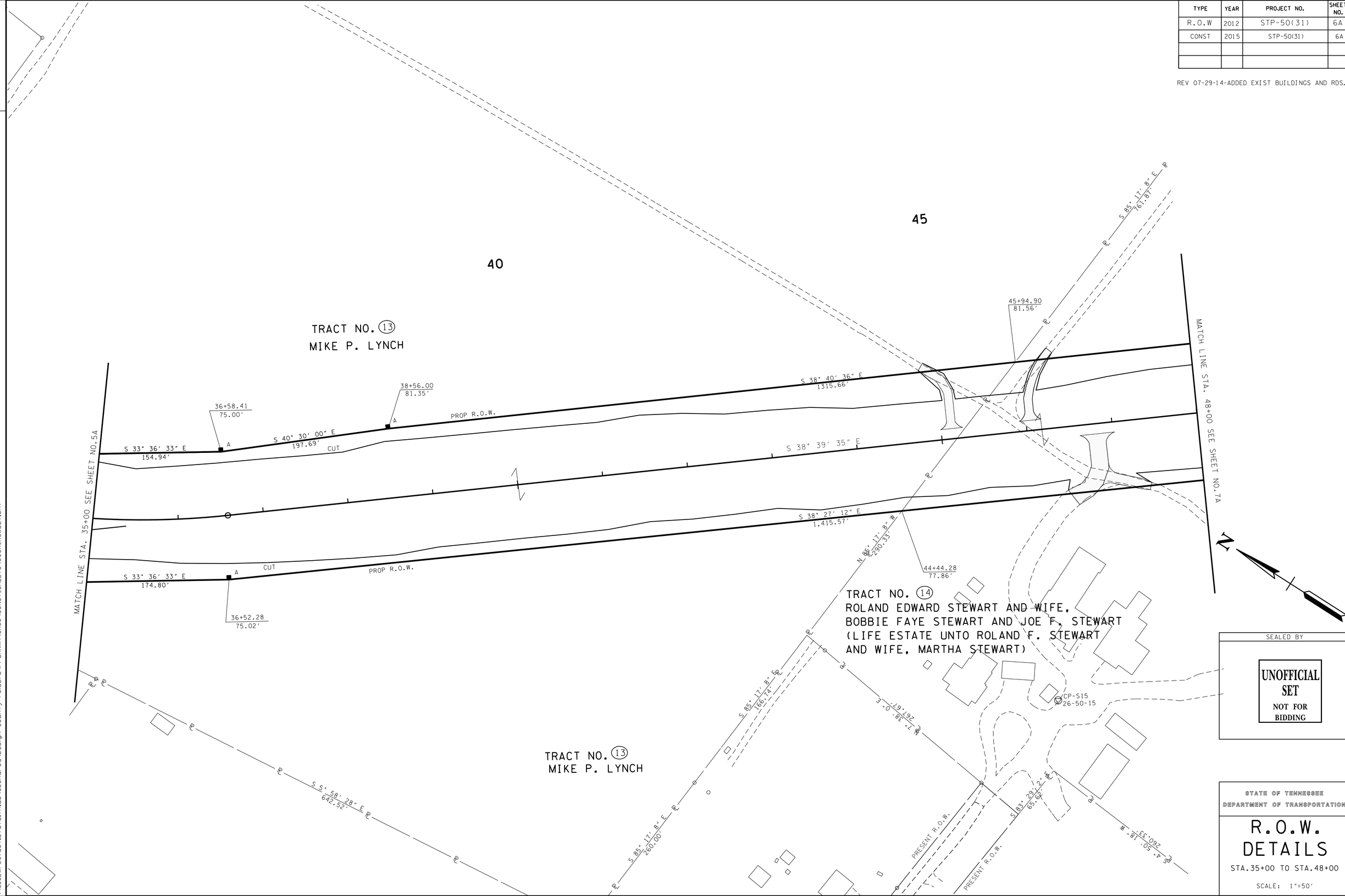
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	6A
CONST	2015	STP-50(31)	6A

REV 07-29-14-ADDED EXIST BUILDINGS AND RDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.35+00 TO STA.48+00

SCALE: 1"=50'

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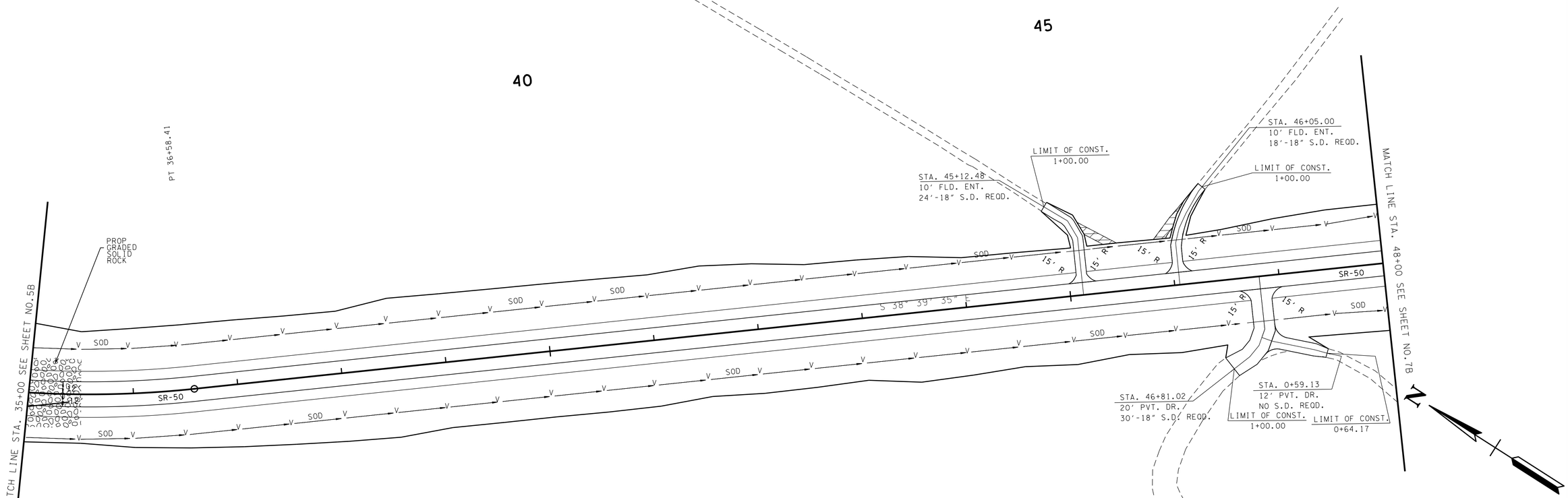
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	6B
CONST	2015	STP-50(31)	6B

REV 08-14-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 10-17-14: REMOVED PVMT MARKINGS. ADDED SCARIFICATION. REVISED PROP GRADED SOLID ROCK.



AREA TO BE SCARIFIED AND OBLITERATED

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.35+00 TO STA.48+00

SCALE: 1"=50'

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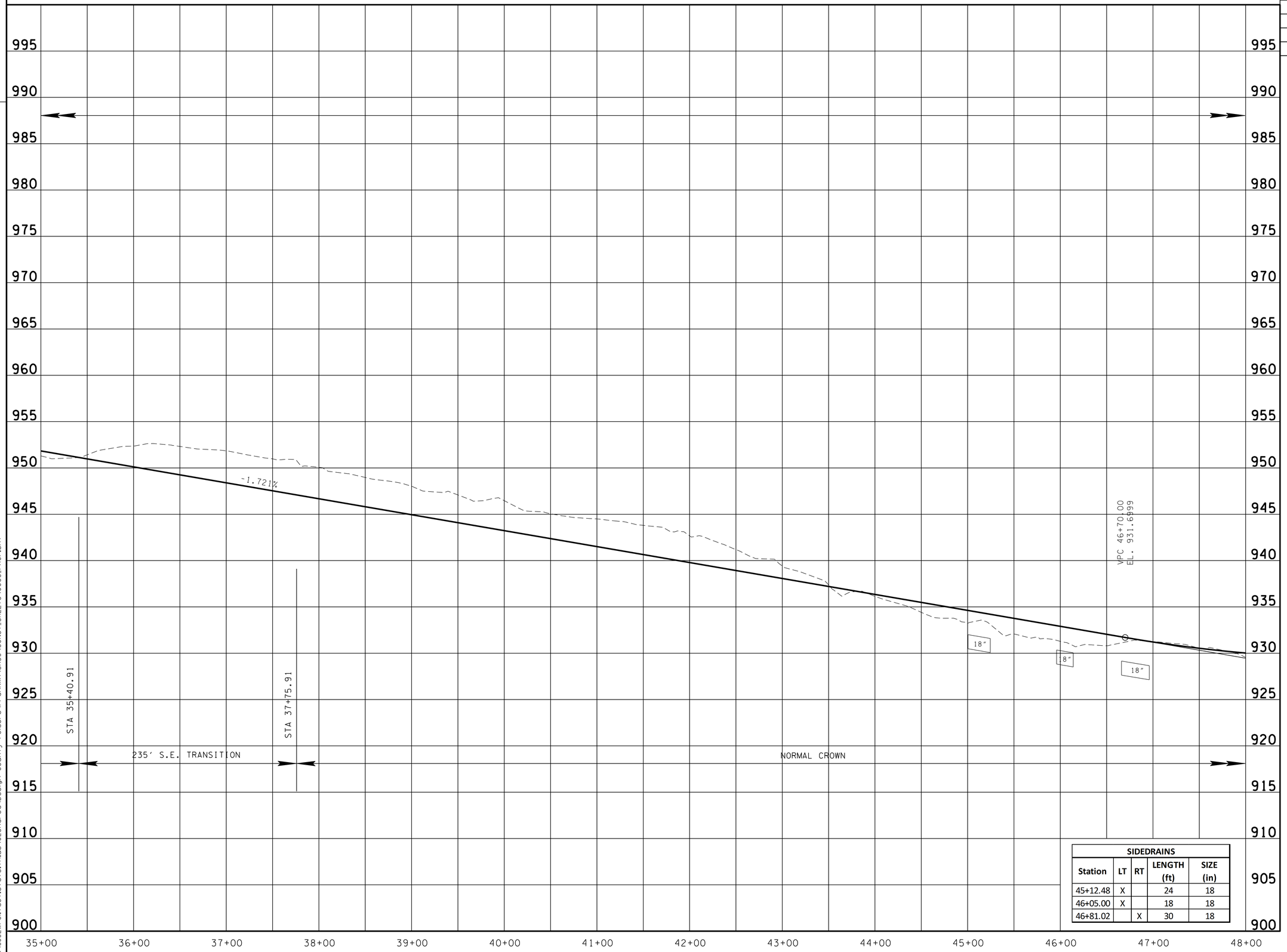
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	6C
CONST	2015	STP-50(31)	6C

REV 07-29-14-ADDED SIDEDRAIN TABLE.



SIDEDRAINS				
Station	LT	RT	LENGTH (ft)	SIZE (in)
45+12.48	X		24	18
46+05.00	X		18	18
46+81.02		X	30	18

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.35+00 TO STA.48+00
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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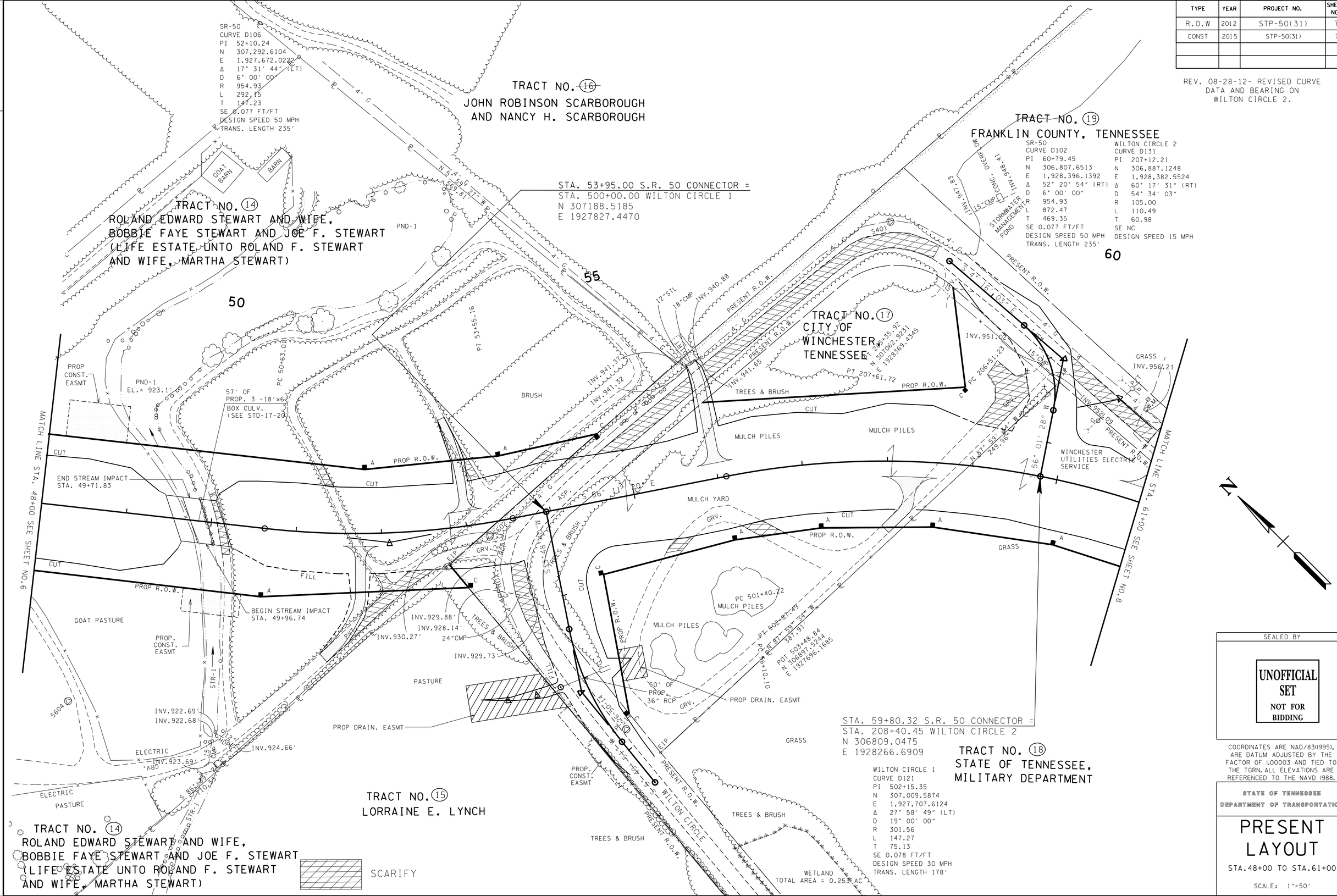
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	7
CONST	2015	STP-50(31)	7

REV. 08-28-12- REVISED CURVE DATA AND BEARING ON WILTON CIRCLE 2.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.48+00 TO STA.61+00

SCALE: 1"=50'

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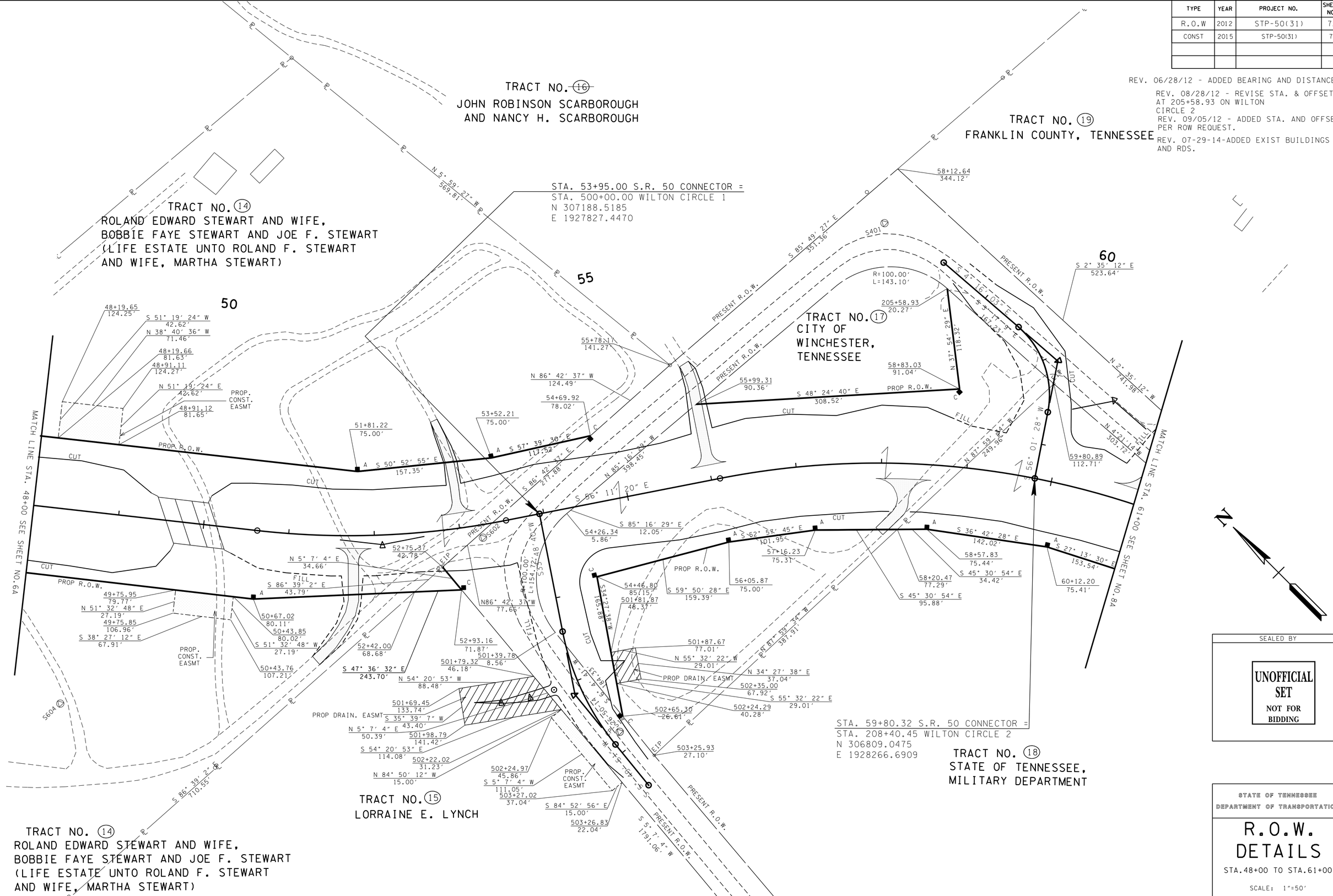
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	7A
CONST	2015	STP-50(31)	7A

REV. 06/28/12 - ADDED BEARING AND DISTANCES
REV. 08/28/12 - REVISE STA. & OFFSET AT 205+58.93 ON WILTON CIRCLE 2
REV. 09/05/12 - ADDED STA. AND OFFSET PER ROW REQUEST.
REV. 07-29-14-ADDED EXIST BUILDINGS AND RDS.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.48+00 TO STA.61+00

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	STP-50(31)	7B
CONST	2015	STP-50(31)	7B

SR-50
CURVE D106
PI 52+10.24
N 307,292.6104
E 1,927,672.0222
Δ 17° 31′ 44″ (LT)
D 6° 00′ 00″
R 954.93
L 292.15
T 147.23
SE 0.077 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 235′

SPECIAL NOTES

ANY WORK WITHIN THE WETLAND/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 WETLAND/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 THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-1 AND PND-1 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

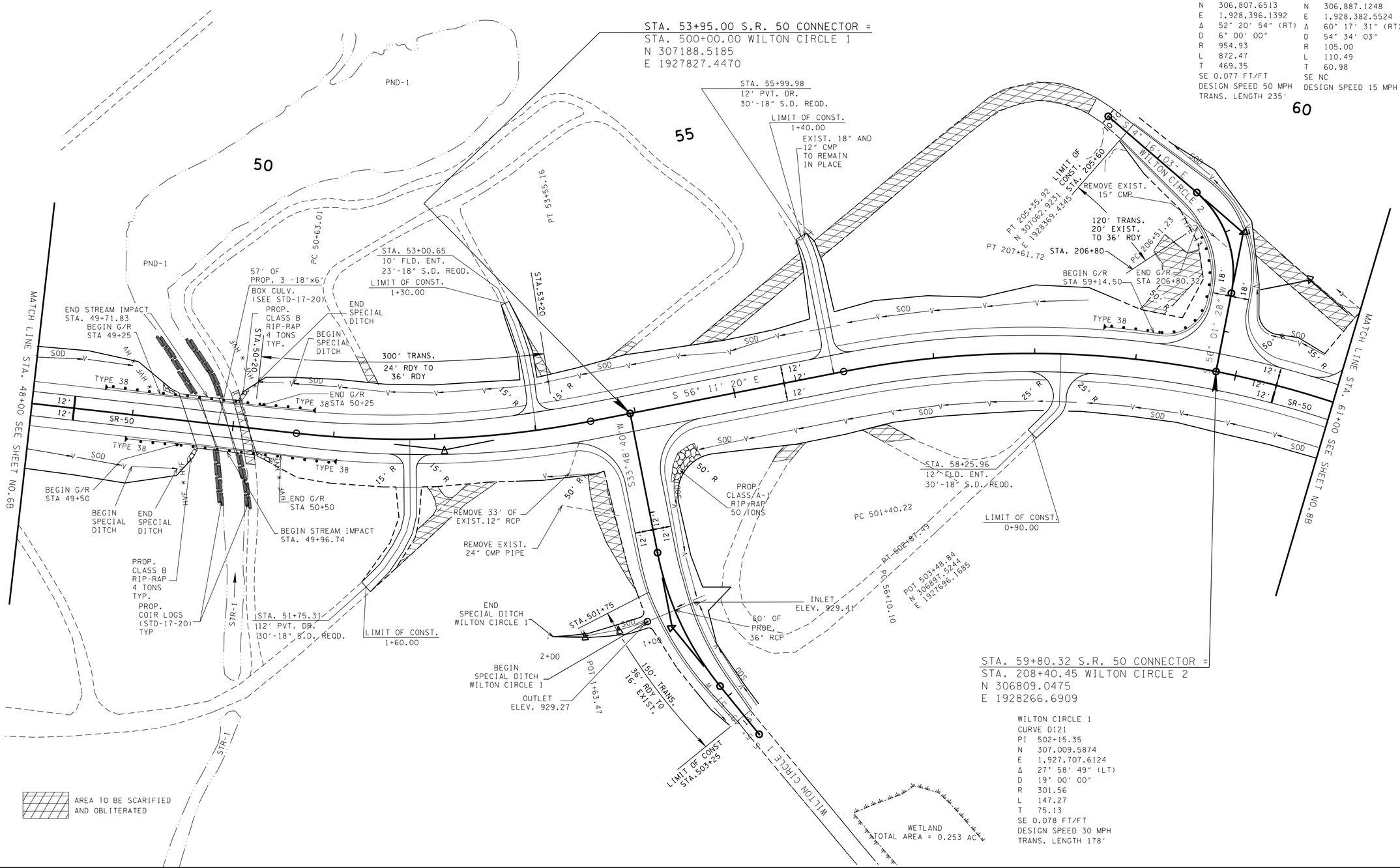
REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.

REV. 08-28-12- REVISED NORTH AND EASTING AND CURVE POINT ON WILTON CIRCLE 2.

REV. 10-17-14: REMOVED PVMT MARKINGS. ADDED SCARIFICATION.REVISED "PLUG" TO "REMOVE" PER CFR.

SR-50
CURVE D102
PI 60+79.45
N 306,807.6513
E 1,928,396.1392
Δ 52° 20′ 54″ (RT)
D 6° 00′ 00″
R 954.93
L 872.47
T 469.35
SE 0.077 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 235′

WILTON CIRCLE 2
CURVE D131
PI 207+12.21
N 306,887.1248
E 1,928,382.5524
Δ 60° 17′ 31″ (RT)
D 54° 34′ 03″
R 105.00
L 110.49
T 60.98
SE NC
DESIGN SPEED 15 MPH



STA. 59+80.32 S.R. 50 CONNECTOR =
STA. 208+40.45 WILTON CIRCLE 2
N 306809.0475
E 1928266.6909

WILTON CIRCLE 1
CURVE D121
PI 502+15.35
N 307,009.5874
E 1,927,707.6124
Δ 27° 58′ 49″ (LT)
D 19° 00′ 00″
R 301.56
L 147.27
T 75.13
SE 0.078 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 178′

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.48+00 TO STA.61+00

SCALE: 1″=50′

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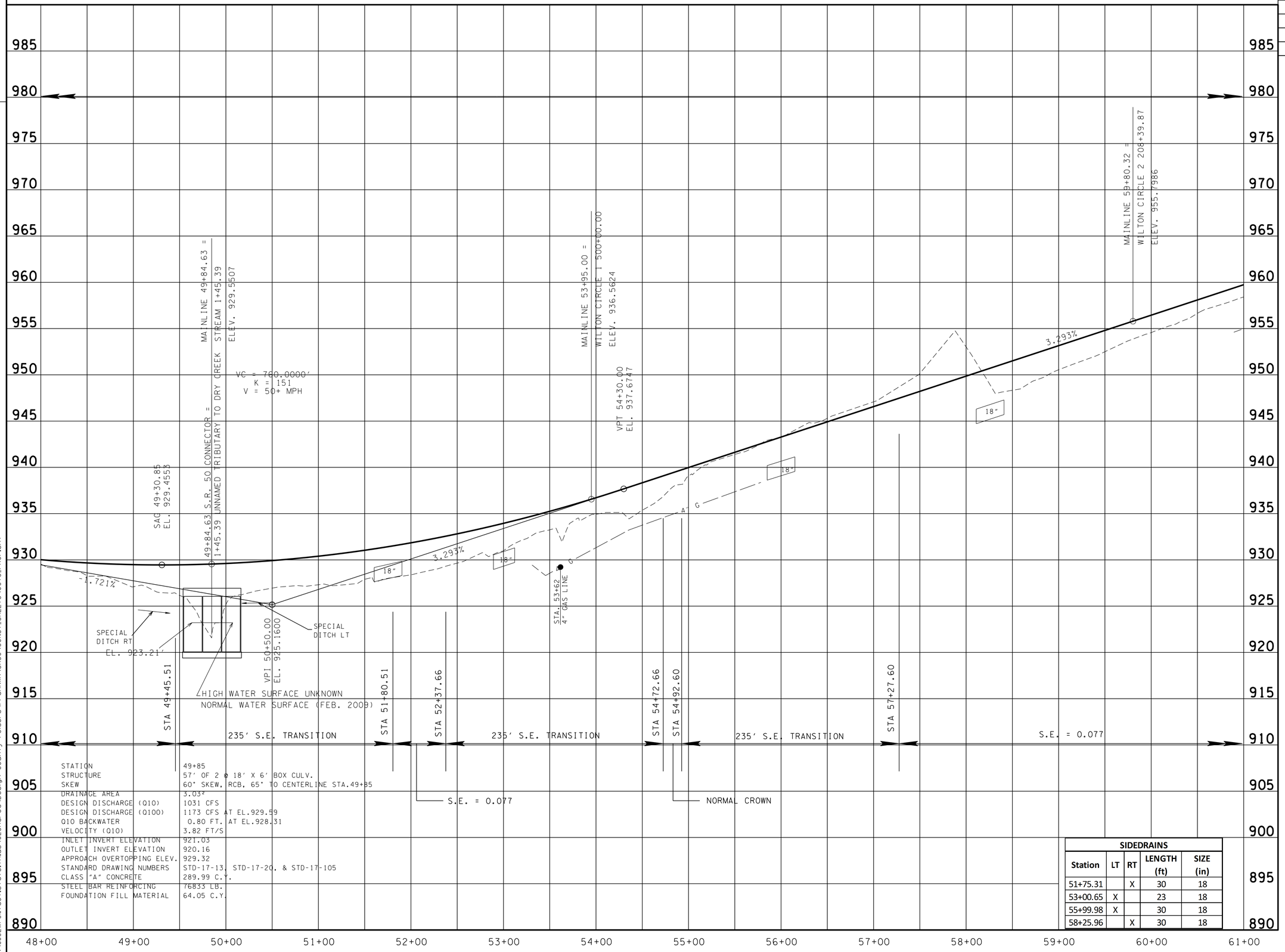
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	7C
CONST	2015	STP-50(31)	7C

REV 07-29-14-ADDED SIDEDRAIN TABLE.



STATION	49+85
STRUCTURE	57' OF 2 @ 18' X 6' BOX CULV.
SKEW	60° SKEW, RCB, 65° TO CENTERLINE STA.49+85
DRAINAGE AREA	3.03²
DESIGN DISCHARGE (Q10)	1031 CFS
DESIGN DISCHARGE (Q100)	1173 CFS AT EL.929.59
Q10 BACKWATER	0.80 FT. AT EL.928.31
VELOCITY (Q10)	3.82 FT/S
INLET INVERT ELEVATION	921.03
OUTLET INVERT ELEVATION	920.16
APPROACH OVERTOPPING ELEV.	929.32
STANDARD DRAWING NUMBERS	STD-17-13, STD-17-20, & STD-17-105
CLASS "A" CONCRETE	289.99 C.Y.
STEEL BAR REINFORCING	76833 LB.
FOUNDATION FILL MATERIAL	64.05 C.Y.

SIDEDRAINS

Station	LT	RT	LENGTH (ft)	SIZE (in)
51+75.31		X	30	18
53+00.65	X		23	18
55+99.98	X		30	18
58+25.96		X	30	18

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.48+00 TO STA.61+00
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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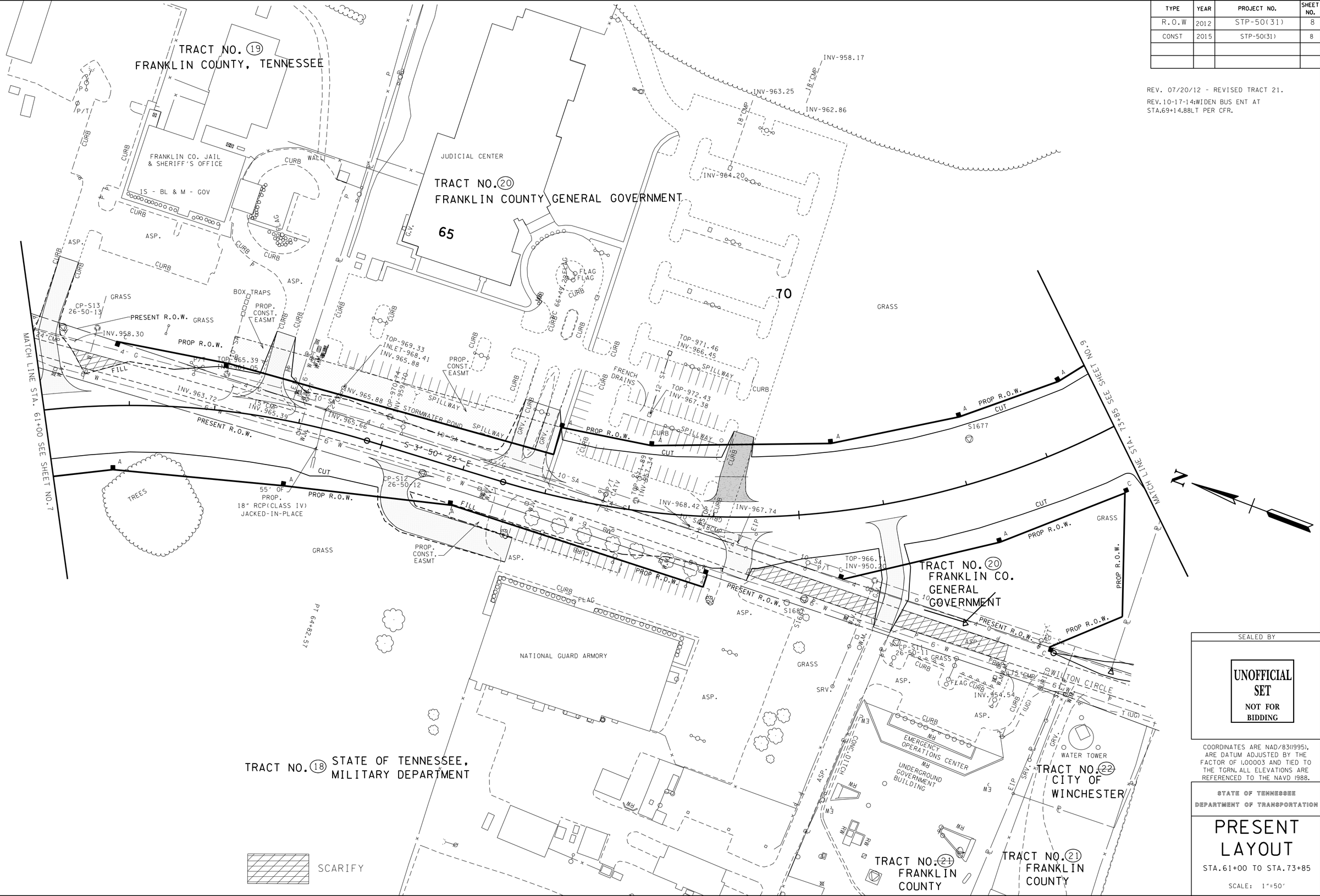
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	8
CONST	2015	STP-50(31)	8

REV. 07/20/12 - REVISED TRACT 21.

REV. 10-17-14: WIDEN BUS ENT AT STA.69+14.88LT PER CFR.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.61+00 TO STA.73+85

SCALE: 1"=50'

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

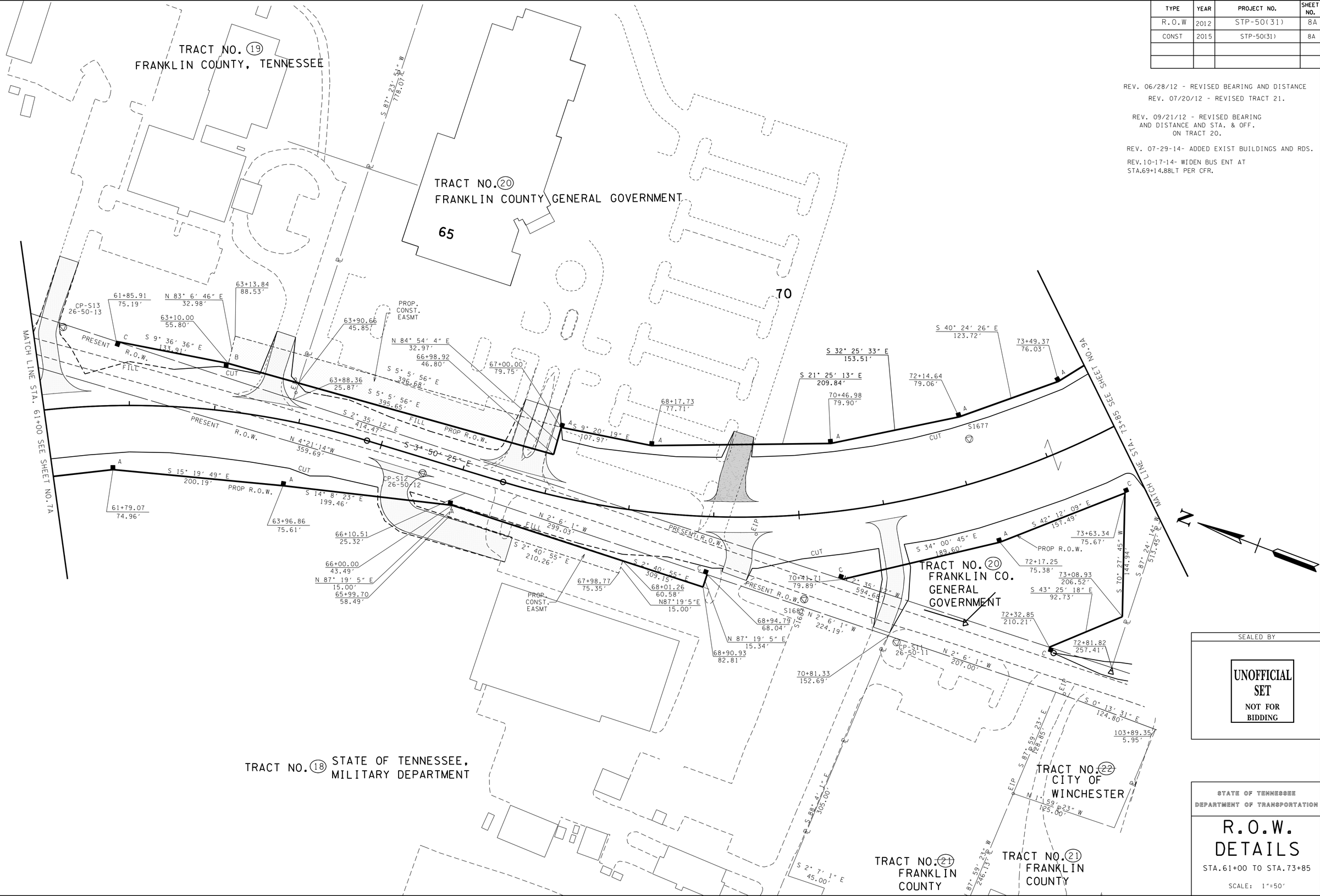
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	8A
CONST	2015	STP-50(31)	8A

REV. 06/28/12 - REVISED BEARING AND DISTANCE
REV. 07/20/12 - REVISED TRACT 21.

REV. 09/21/12 - REVISED BEARING AND DISTANCE AND STA. & OFF. ON TRACT 20.

REV. 07-29-14- ADDED EXIST BUILDINGS AND RDS.

REV.10-17-14- WIDEN BUS ENT AT STA.69+14.88LT PER CFR.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.61+00 TO STA.73+85

SCALE: 1"=50'

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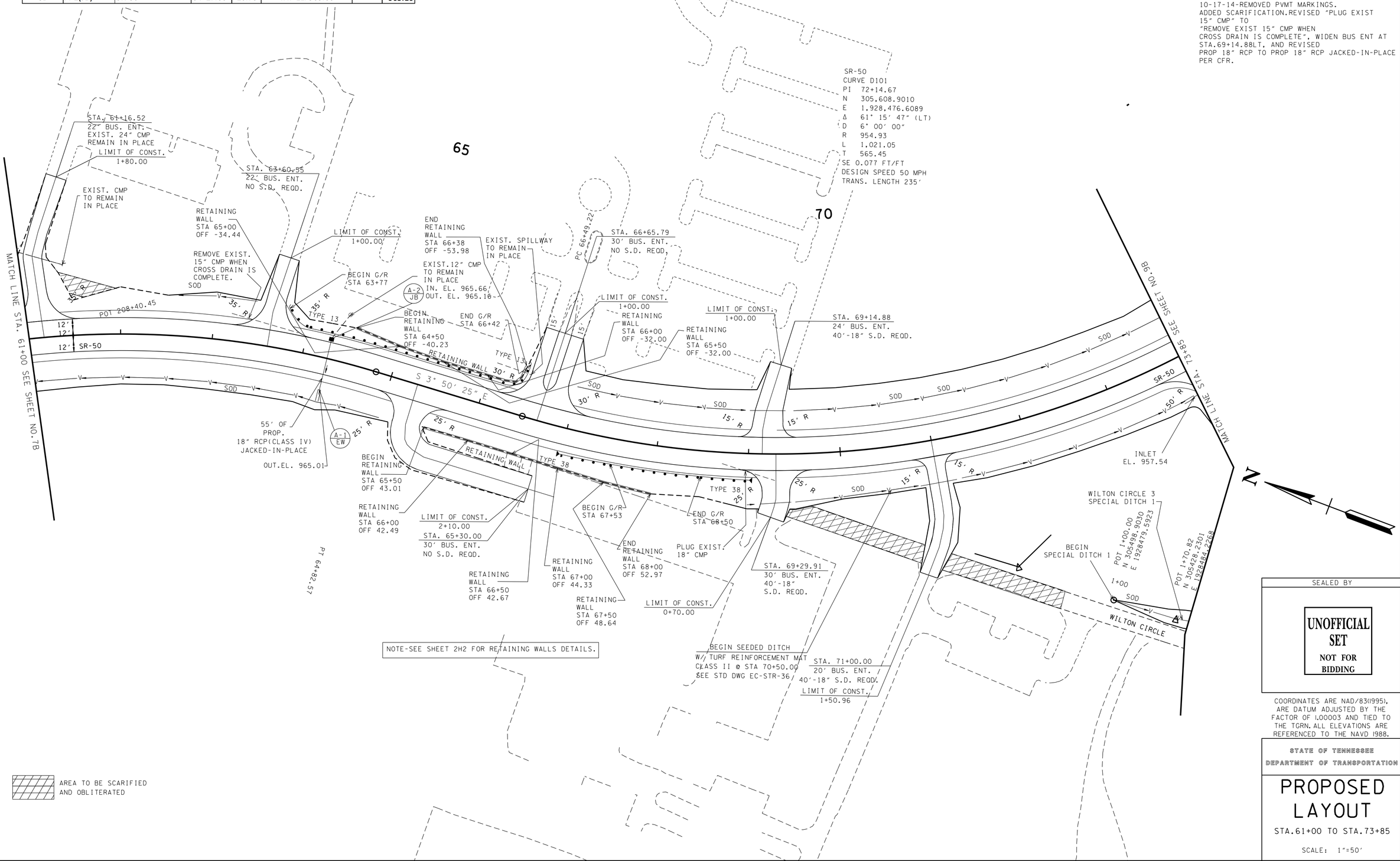
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	8B
CONST	2015	STP-50(31)	8B

07-29-14-REVISED RETAINING WALLS.
ADDED CB TABLE.

10-17-14-REMOVED PVMT MARKINGS.
ADDED SCARIFICATION.REVISED "PLUG EXIST 15" CMP" TO
"REMOVE EXIST 15" CMP WHEN
CROSS DRAIN IS COMPLETE", WIDEN BUS ENT AT
STA.69+14.88LT, AND REVISED
PROP 18" RCP TO PROP 18" RCP JACKED-IN-PLACE
PER CFR.

Sheet No.	Catchbasin No.	Road Name	Station	Offset	IN. EL.	GT EL.	OUT EL.
8B	A-1(EW)	SR-50	64+27.00	35.28			965.01
8B	A-2(JB)	SR-50	64+27.00	-20.73	IN. EL. 965.66		965.16



NOTE-SEE SHEET 2H2 FOR RETAINING WALLS DETAILS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.61+00 TO STA.73+85

SCALE: 1"=50'

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

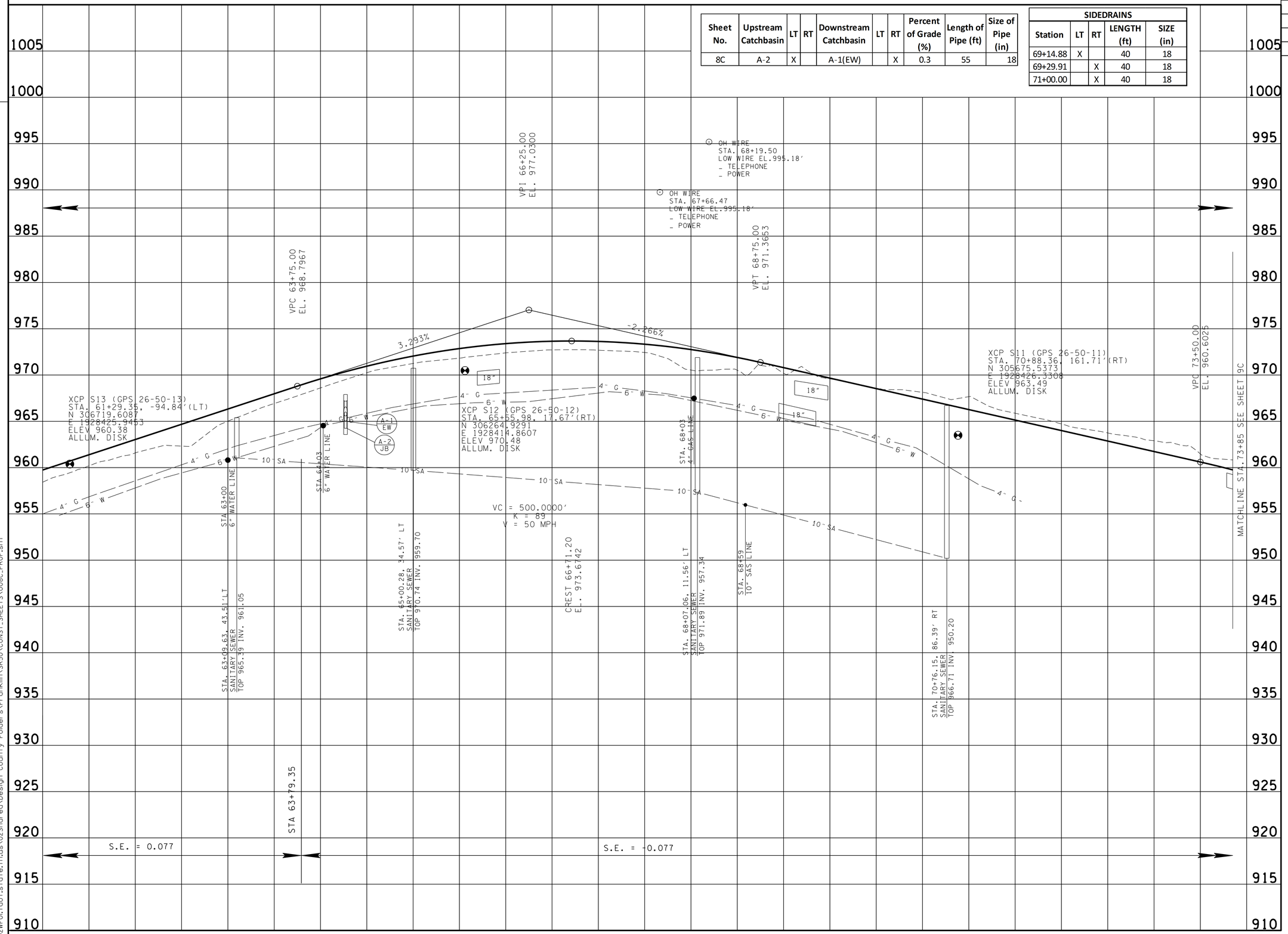
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	8C
CONST	2015	STP-50(31)	8C

REV 07-29-14-ADDED CB TABLE AND SIDEDRAIN TABLE.

Sheet No.	Upstream Catchbasin	LT	RT	Downstream Catchbasin	LT	RT	Percent of Grade (%)	Length of Pipe (ft)	Size of Pipe (in)
8C	A-2	X		A-1(EW)		X	0.3	55	18

SIDEDRAINS

Station	LT	RT	LENGTH (ft)	SIZE (in)
69+14.88	X		40	18
69+29.91		X	40	18
71+00.00		X	40	18



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.61+00 TO STA.73+85
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	STP-50(31)	9
CONST	2015	STP-50(31)	9

TIM'S FORD RESERVOIR
FULL POOL CONTOUR = 888 FT.
MAXIMUM SHORELINE CONTOUR = 895 FT.

TRACT NO. 24
TENNESSEE ELK RIVER DEVELOPMENT AGENCY
(TVA / TIM'S FORD RESERVOIR)

	TVA CORNER (NAD 27)	TDOT .GPK* (NAD 83(95))
	32-28	S1611
NORTH	283778.5	305165.9024
EAST	1960968.4	1929529.6255
	32-25A	S1004
NORTH	284895.4	306282.3050
EAST	1960684.0	1929244.9840
	32-25	S1041
NORTH	285739.5	307126.6520
EAST	1960568.5	1929130.5090

STA. 83+28.98 S.R. 50 CONNECTOR =
STA. 400+00.00 JOYCE LANE
N 305044.4787
E 1929557.0625

SR-50
CURVE D107
PI 81+41.29
N 305,172.5641
E 1,929,416.7617
Δ 17° 29′ 51″ (RT)
D 6° 00′ 00″
R 954.93
L 291.62
T 146.96
SE 0.077 FT/FT
DESIGN SPEED 50 MPH
TRANS. LENGTH 235′

TRACT NO. 20
FRANKLIN COUNTY GENERAL GOVERNMENT

STA. 74+13.44 S.R. 50 CONNECTOR =
STA. 100+00.00 WILTON CIRCLE 3
N 305508.8167
E 1928773.8019

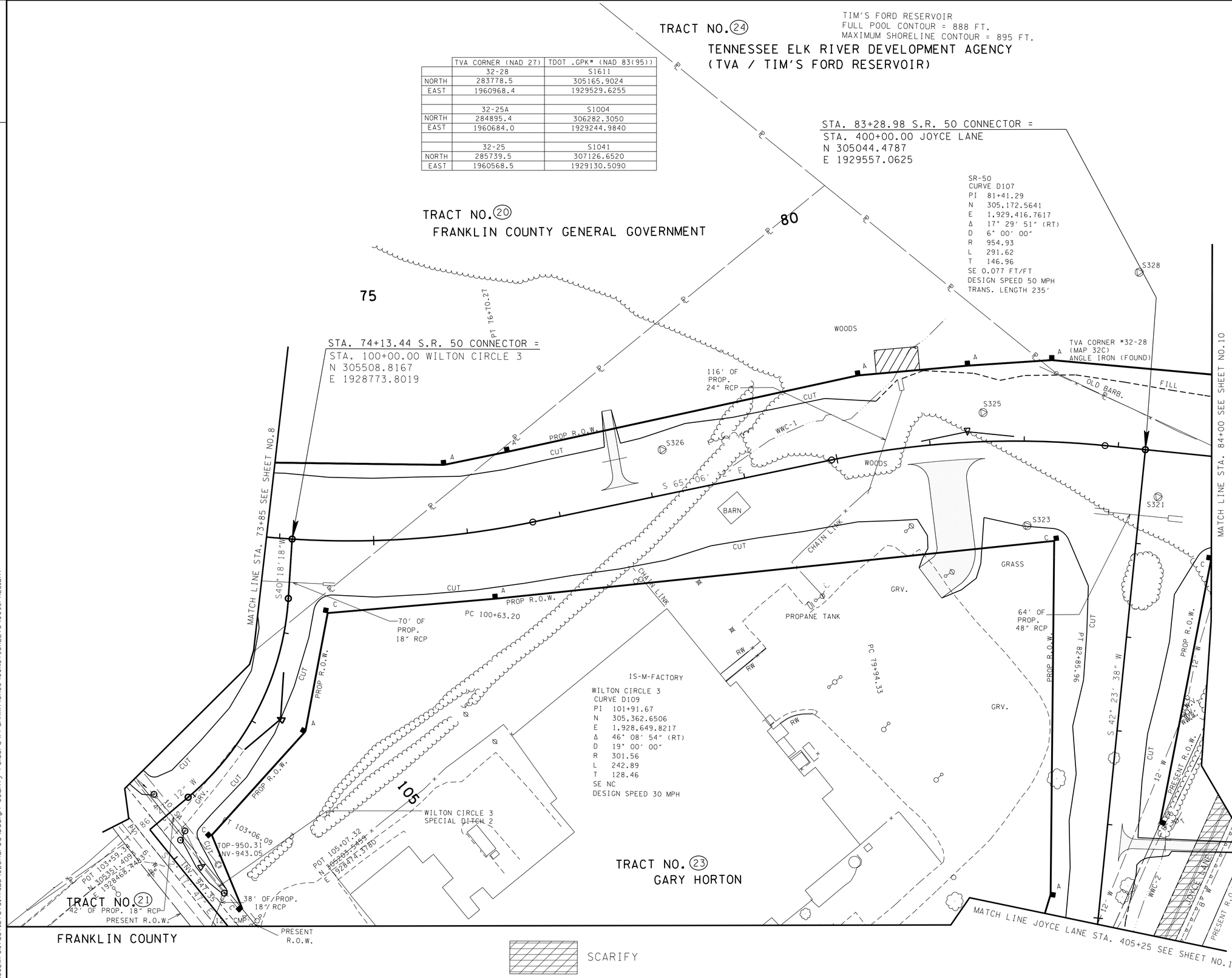
WILTON CIRCLE 3
CURVE D109
PI 101+91.67
N 305,362.6506
E 1,928,649.8217
Δ 46° 08′ 54″ (RT)
D 19° 00′ 00″
R 301.56
L 242.89
T 128.46
SE NC
DESIGN SPEED 30 MPH

TRACT NO. 23
GARY HORTON

TRACT NO. 21
42′ OF PROP. 18″ RCP
PRESENT R.O.W.

FRANKLIN COUNTY

SCARIFY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.73+85 TO STA.84+00

SCALE: 1"=50′

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

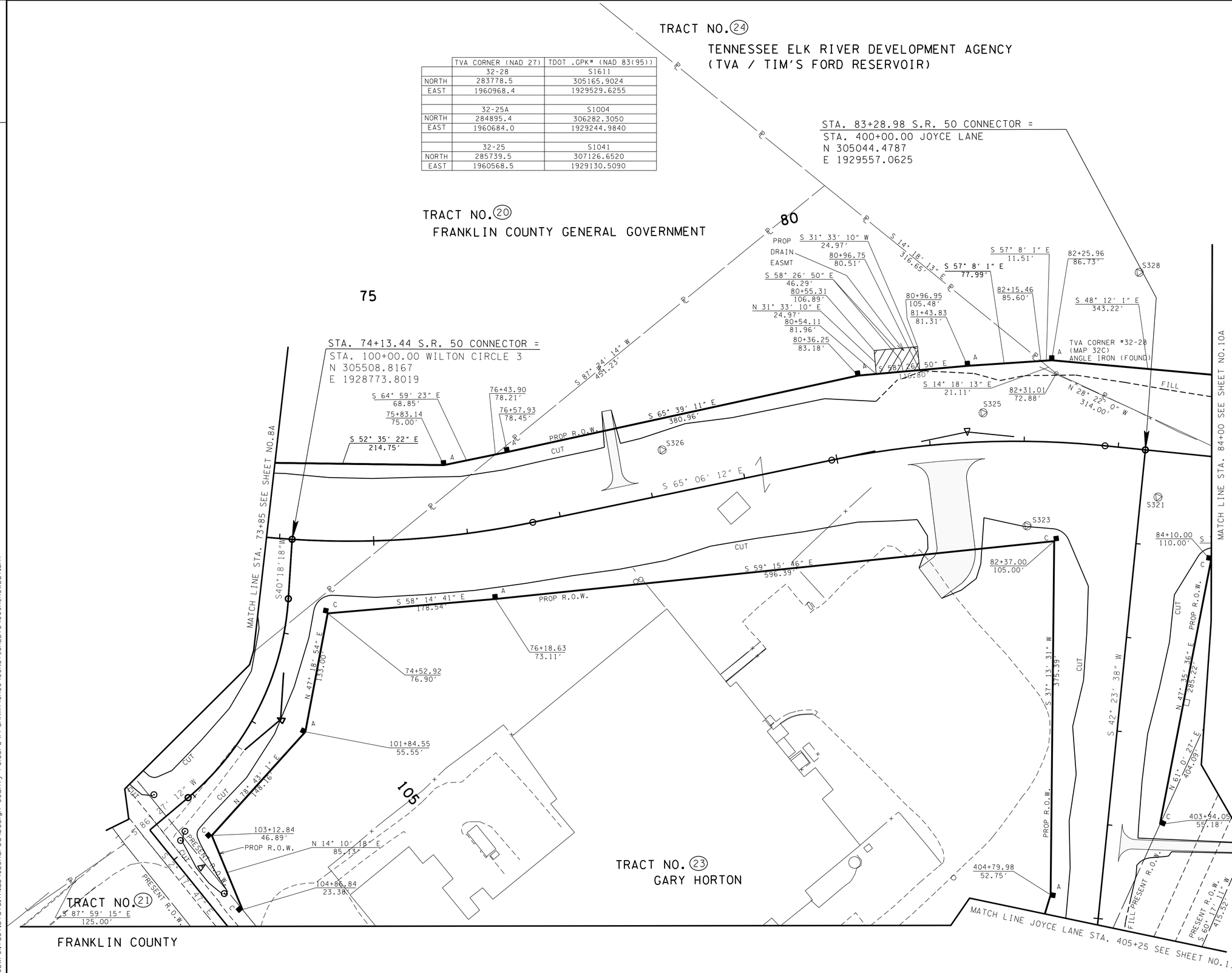
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	9A
CONST	2015	STP-50(31)	9A

REV. 06/28/12 - REVISED BEARING AND DISTANCES
REV. 08/30/12 - REVISED STA. AND OFFSET AT STA. 104+86.84

REV. 09/05/12 - REVISED AND ADDED STA. AND OFFSETS
REV. 09/21/12 - REVISED BEARING AND DISTANCE ON TRACT 20

REV. 07-29-14- ADDED EXIST BUILDINGS AND RDS.

	TVA CORNER (NAD 27)	TDOT .GPK* (NAD 83(95))
	32-28	S1611
NORTH	283778.5	305165.9024
EAST	1960968.4	1929529.6255
	32-25A	S1004
NORTH	284895.4	306282.3050
EAST	1960684.0	1929244.9840
	32-25	S1041
NORTH	285739.5	307126.6520
EAST	1960568.5	1929130.5090



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DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.73+85 TO STA.84+00

SCALE: 1"=50'

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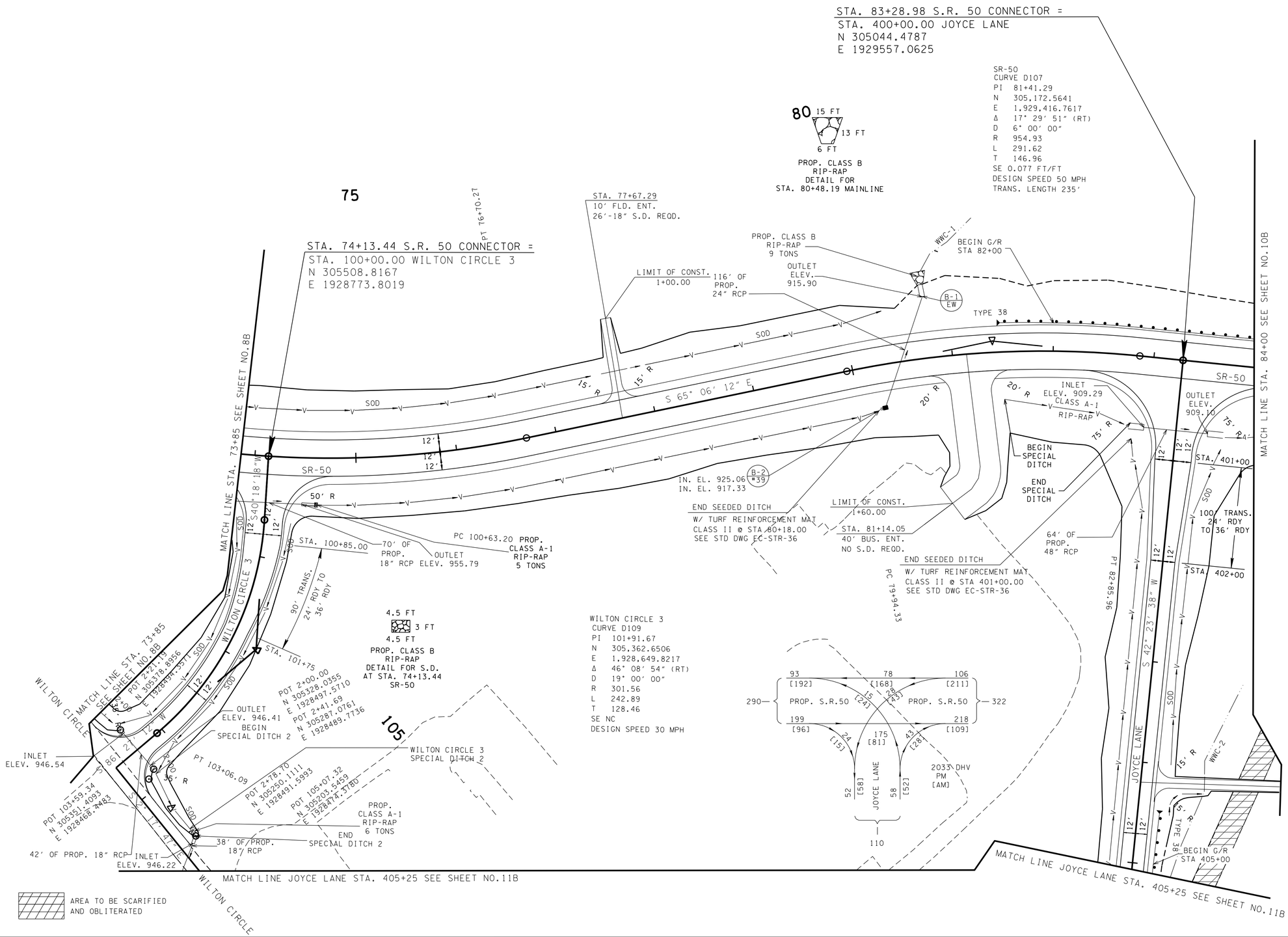
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

Sheet No.	Catchbasin No.	Road Name	Station	Offset	IN. EL.	GT EL.	OUT EL.
9B	B-2	SR-50	80+25.82	42.64	IN. EL.925.06		917.33
9B	B-1(EW)	SR-50	80+77.36	-61.2			915.9

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	9B
CONST	2015	STP-50(31)	9B

REV 07-29-14-REVISE CB AND ADDED CB TABLE.

REV 10-17-14:REMOVED PVMT MARKINGS. ADDED SCARIFICATION.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.73+85 TO STA.84+00

SCALE: 1"=50'

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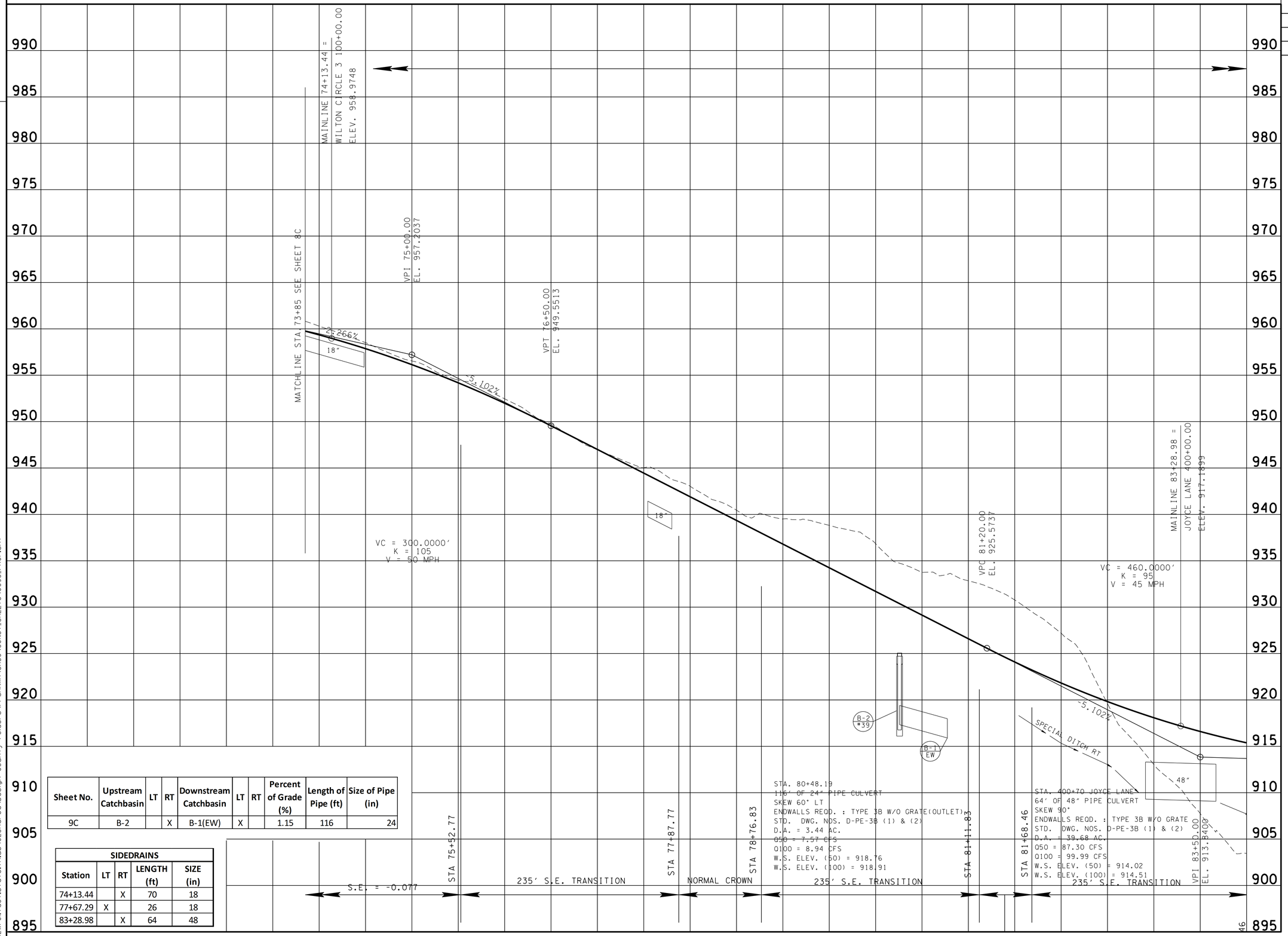
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	9C
CONST	2015	STP-50(31)	9C

REV 07-29-14-ADDED CB AND SIDEDRAIN TABLE.



Sheet No.	Upstream Catchbasin	LT	RT	Downstream Catchbasin	LT	RT	Percent of Grade (%)	Length of Pipe (ft)	Size of Pipe (in)
9C	B-2		X	B-1(EW)	X		1.15	116	24

SIDEDRAINS				
Station	LT	RT	LENGTH (ft)	SIZE (in)
74+13.44		X	70	18
77+67.29	X		26	18
83+28.98		X	64	48

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.73+85 TO STA.84+00
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	STP-50(31)	10
CONST	2015	STP-50(31)	10

REV. 08-28-12- ADDED NORTH EASTING TO SR-15 AND SR-16
REV. 10-17-14- REVISED SLOPE LINES.

TRACT NO. 24
TENNESSEE ELK RIVER DEVELOPMENT AGENCY
(TVA / TIM'S FORD RESERVOIR)

SCARIFY

BRIDGE DESCRIPTION:
BRIDGE ID. 26SR0150011
3 SPAN CONC. BRIDGE WITH 3.0' CONC. RAILS.
1.3' ASPHALT & CAST IN PLACE CONC. DECK.
BRIDGE 27.6'W X 128.9'L.

END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28 S.R. 50 CONNECTOR =
STA. 702+74.57 S.R.15(DAVID CROCKETT HWY)=
STA. 12+60.00 S.R.16=
STA. 604+76.70 S.R.15 SOUTH(DAVID CROCKETT HWY)=
N 304652.5516
E 1929986.3677

TRACT NO. 38
FRANKLIN COUNTY, TENNESSEE

TRACT NO. 26
BERTIE RUTH STANLEY

TRACT NO. 28
CITY OF WINCHESTER

85

700

TRACT NO. 40
FRANCES E. PISTOLE

SR-16
CURVE D302
PI 7+25.36
N 304,355.7263
E 1,930,447.7182
Δ 39° 44' 55" (LT)
D 12° 00' 42"
R 477.00
L 330.92
T 172.43
SE 0.065 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 155'

80' OF 2-10' X 8' BOX CULVERTS.
SKEW 75°
FLOWS RIGHT
D.A. 707 ac.
ROLLING
H.W. 900.0'

NOTE: SEE SHEET 10D, 10E AND 10F FOR ROUNDABOUT DETAILS.

TRACT NO. 41
W. F. YARBROUGH INC.
C/O FRANK VUKELICH

TRACT NO. 25
BERTIE RUTH STANLEY

TRACT NO. 42
DELBERT REED AND WIFE DEBORAH

10

TRACT NO. 39
ALTON M. GRIFFIN AND WIFE WILMA

5

TRACT NO. 44
ALLGAS INC. OF TN.

TRACT NO. 30
PHILLIP C. STANLEY

601

TRACT NO. 43
WINCHESTER HOLLINESS CHURCH
C/O JOHNNY TIDWELL

TRACT NO. 45
WINCHESTER HOLLINESS CHURCH
C/O MARK TEET

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.84+00 TO STA.90+10

SCALE: 1"=50'

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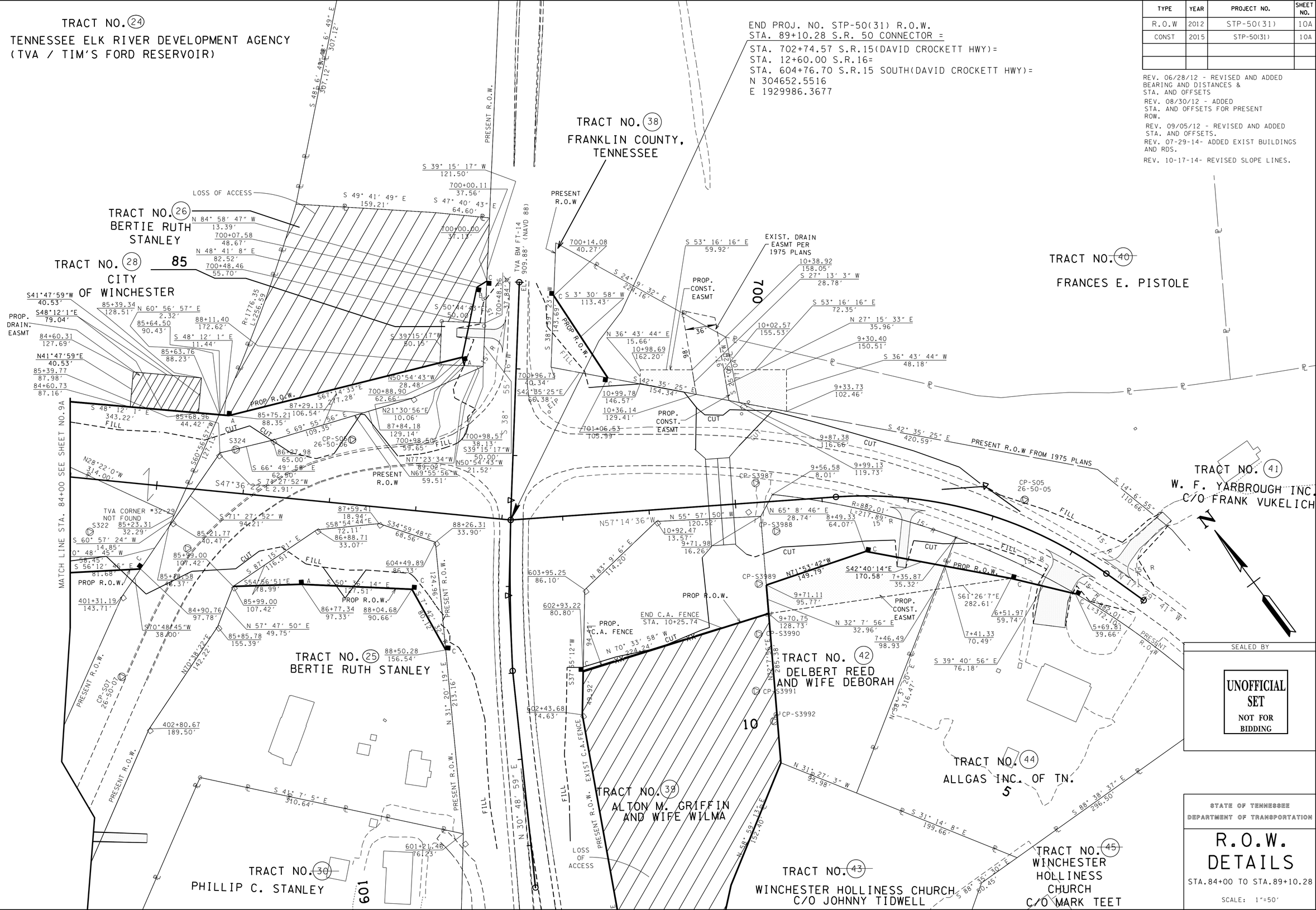
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	10A
CONST	2015	STP-50(31)	10A

REV. 06/28/12 - REVISED AND ADDED BEARING AND DISTANCES & STA. AND OFFSETS
REV. 08/30/12 - ADDED STA. AND OFFSETS FOR PRESENT ROW.
REV. 09/05/12 - REVISED AND ADDED STA. AND OFFSETS.
REV. 07-29-14- ADDED EXIST BUILDINGS AND RDS.
REV. 10-17-14- REVISED SLOPE LINES.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.84+00 TO STA.89+10.28

SCALE: 1"=50'

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

SPECIAL NOTES

ANY WORK WITHIN THE WETLAND/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 WETLAND/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 THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-2 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28 S.R. 50 CONNECTOR =
STA. 702+74.57 S.R.15(DAVID CROCKETT HWY)=
STA. 12+60.00 S.R.16=
STA. 604+76.70 S.R.15 SOUTH(DAVID CROCKETT HWY)=
N 304652.5516
E 1929986.3677

REV. 08-28-12- ADDED NORTH EASTING TO SR-15 AND SR-16

REV. 09-07-12- REMOVED DITCH NORTH OF SR-16

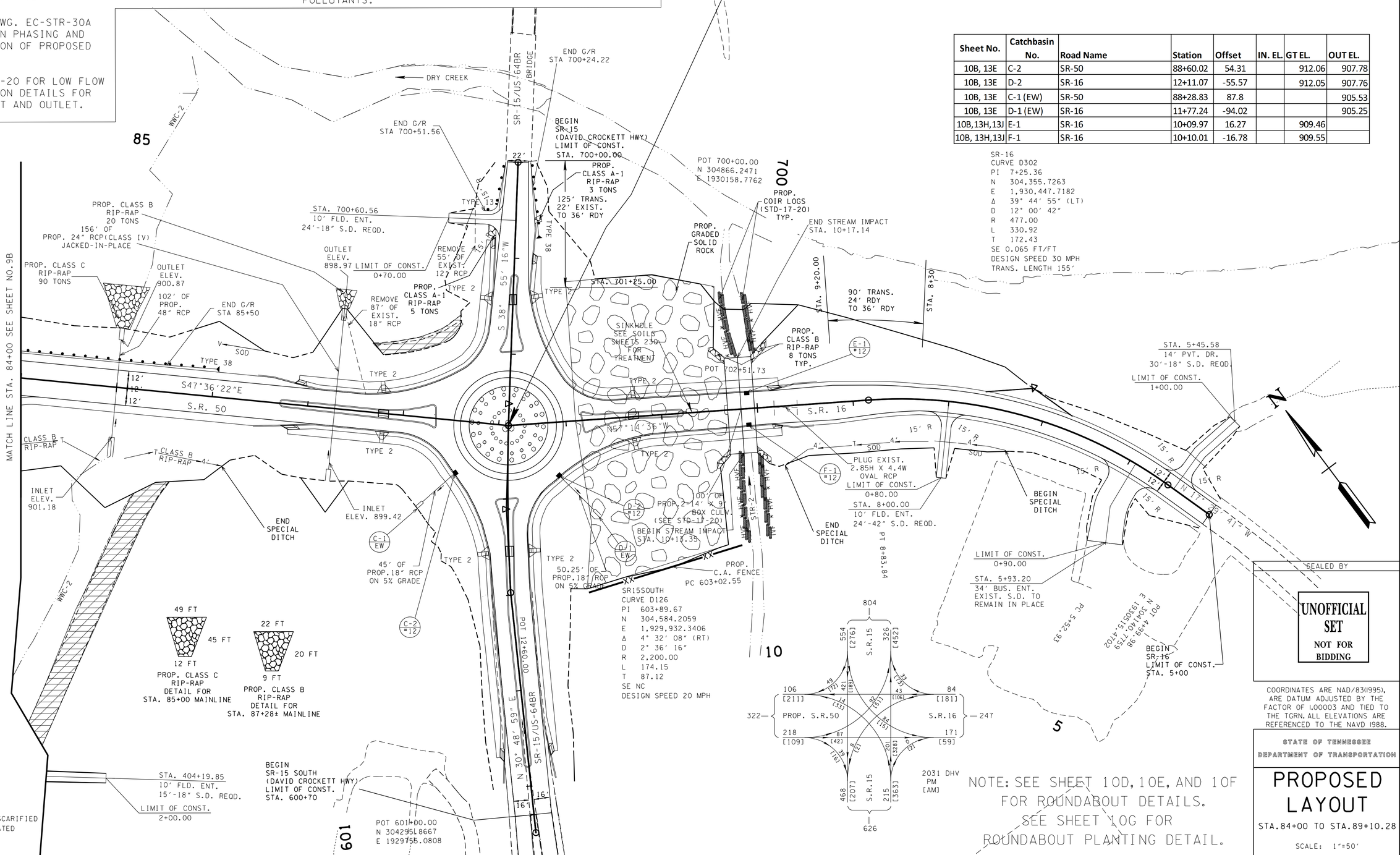
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	10B
CONST	2015	STP-50(31)	10B

REV. 07-29-14- ADDED PROP GRADED SOLID ROCK. REVISED JACK IN PLACE PIPE. ADDED CB TABLE. REVISED CB.

REV. 10-17-14- REMOVED PVMT MARKINGS. ADDED SCARIFICATION.REVISED SR-16 SLOPE LINES.

Sheet No.	Catchbasin No.	Road Name	Station	Offset	IN. EL.	GT EL.	OUT EL.
10B, 13E	C-2	SR-50	88+60.02	54.31		912.06	907.78
10B, 13E	D-2	SR-16	12+11.07	-55.57		912.05	907.76
10B, 13E	C-1 (EW)	SR-50	88+28.83	87.8			905.53
10B, 13E	D-1 (EW)	SR-16	11+77.24	-94.02			905.25
10B,13H,13J	E-1	SR-16	10+09.97	16.27		909.46	
10B, 13H,13J	F-1	SR-16	10+10.01	-16.78		909.55	

SR-16
CURVE D302
PI 7+25.36
N 304,355.7263
E 1,930,447.7182
Δ 39° 44′ 55″ (LT)
D 12° 00′ 42″
R 477.00
L 330.92
T 172.43
SE 0.065 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 155′



NOTE: SEE SHEET 10D, 10E, AND 10F FOR ROUNDABOUT DETAILS. SEE SHEET 10G FOR ROUNDABOUT PLANTING DETAIL.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.84+00 TO STA.89+10.28

SCALE: 1″=50′

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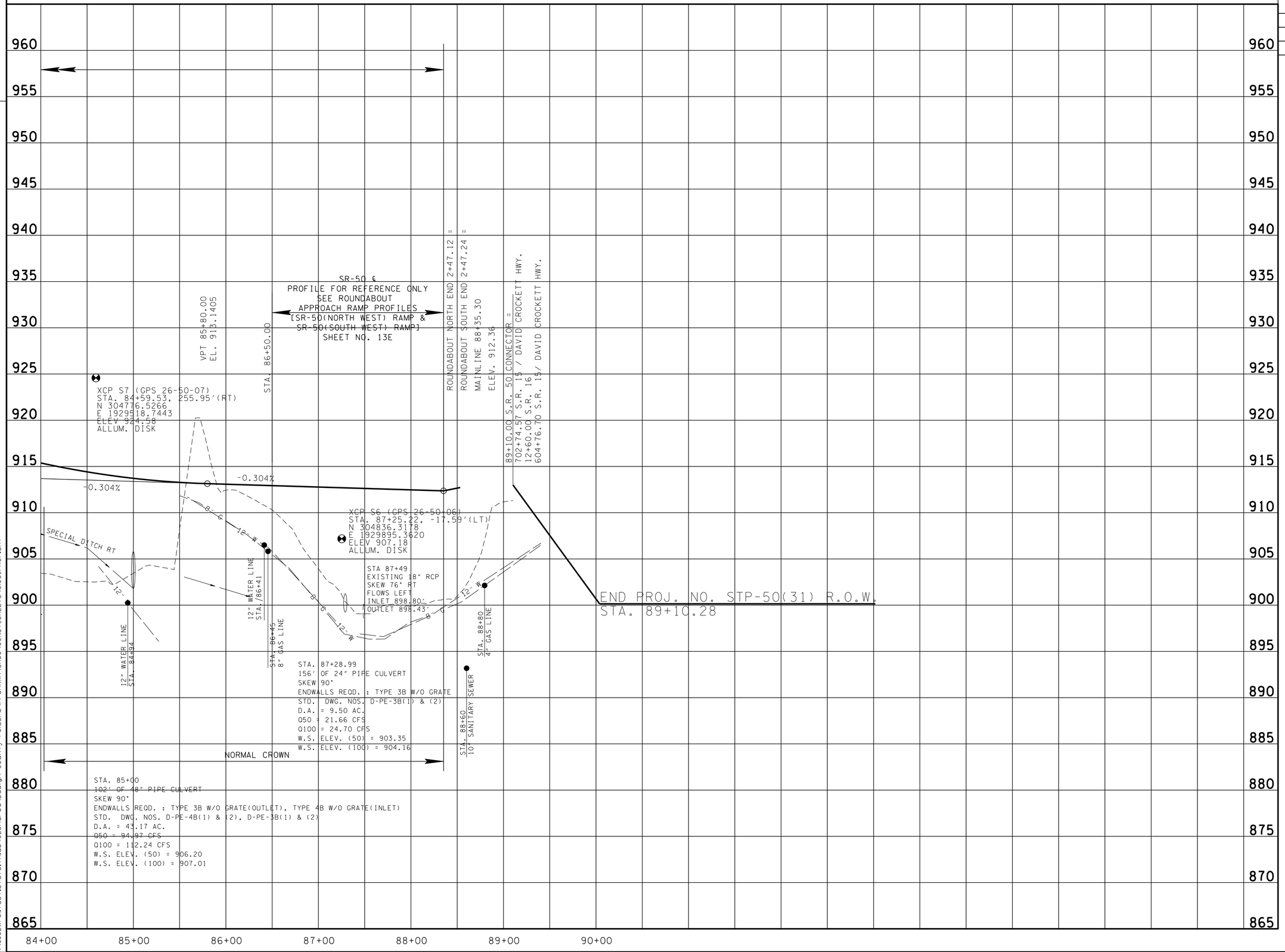
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	10C
CONST	2015	STP-50(31)	10C



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.83+00 TO STA.89+10.28
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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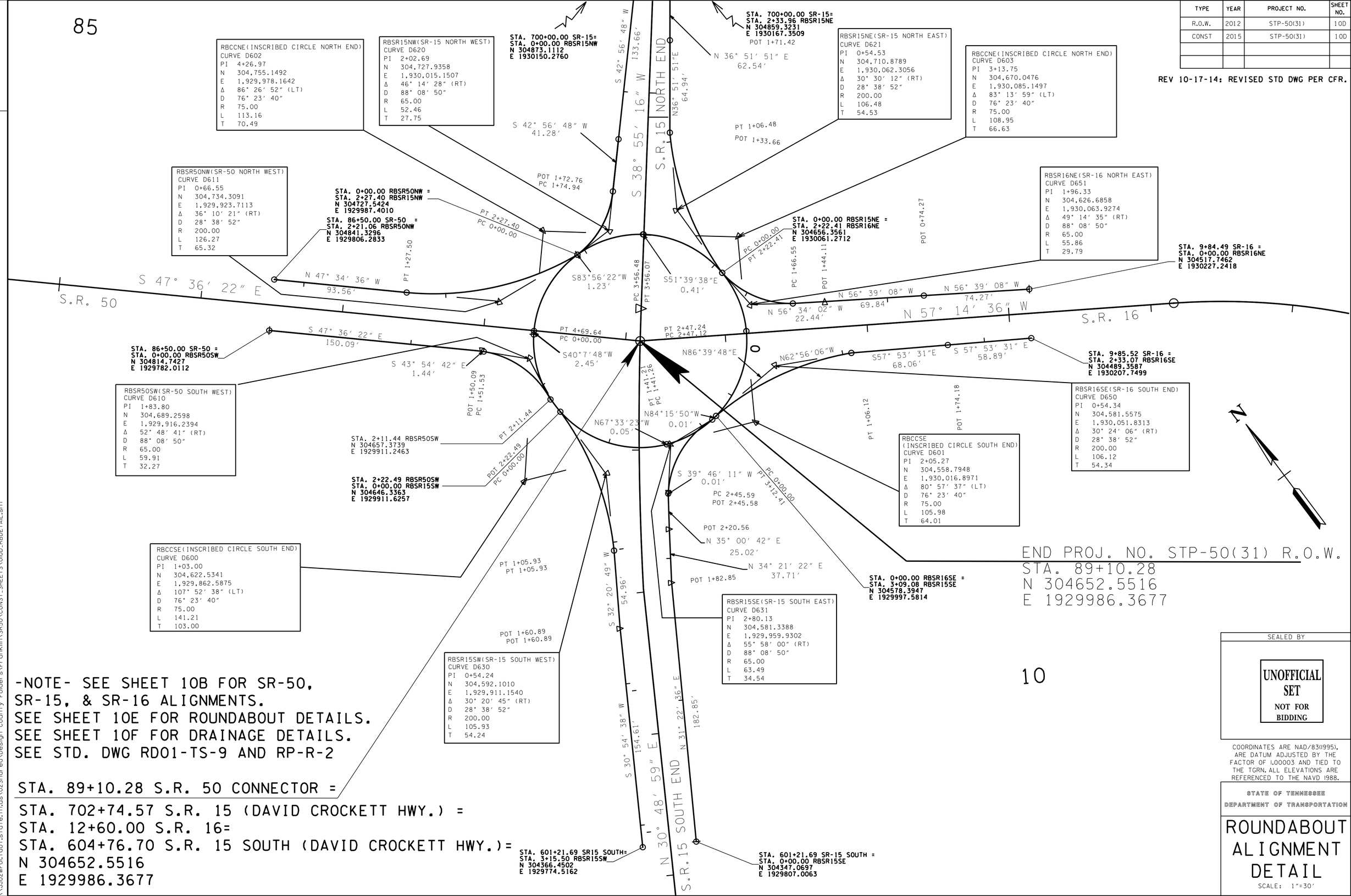
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

85

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	10D
CONST	2015	STP-50(31)	10D

REV 10-17-14: REVISED STD DWG PER CFR.



-NOTE- SEE SHEET 10B FOR SR-50,
SR-15, & SR-16 ALIGNMENTS.
SEE SHEET 10E FOR ROUNDABOUT DETAILS.
SEE SHEET 10F FOR DRAINAGE DETAILS.
SEE STD. DWG RD01-TS-9 AND RP-R-2

STA. 89+10.28 S.R. 50 CONNECTOR =
STA. 702+74.57 S.R. 15 (DAVID CROCKETT HWY.) =
STA. 12+60.00 S.R. 16=
STA. 604+76.70 S.R. 15 SOUTH (DAVID CROCKETT HWY.)=
N 304652.5516
E 1929986.3677

10

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROUNDABOUT ALIGNMENT DETAIL

SCALE: 1"=30'

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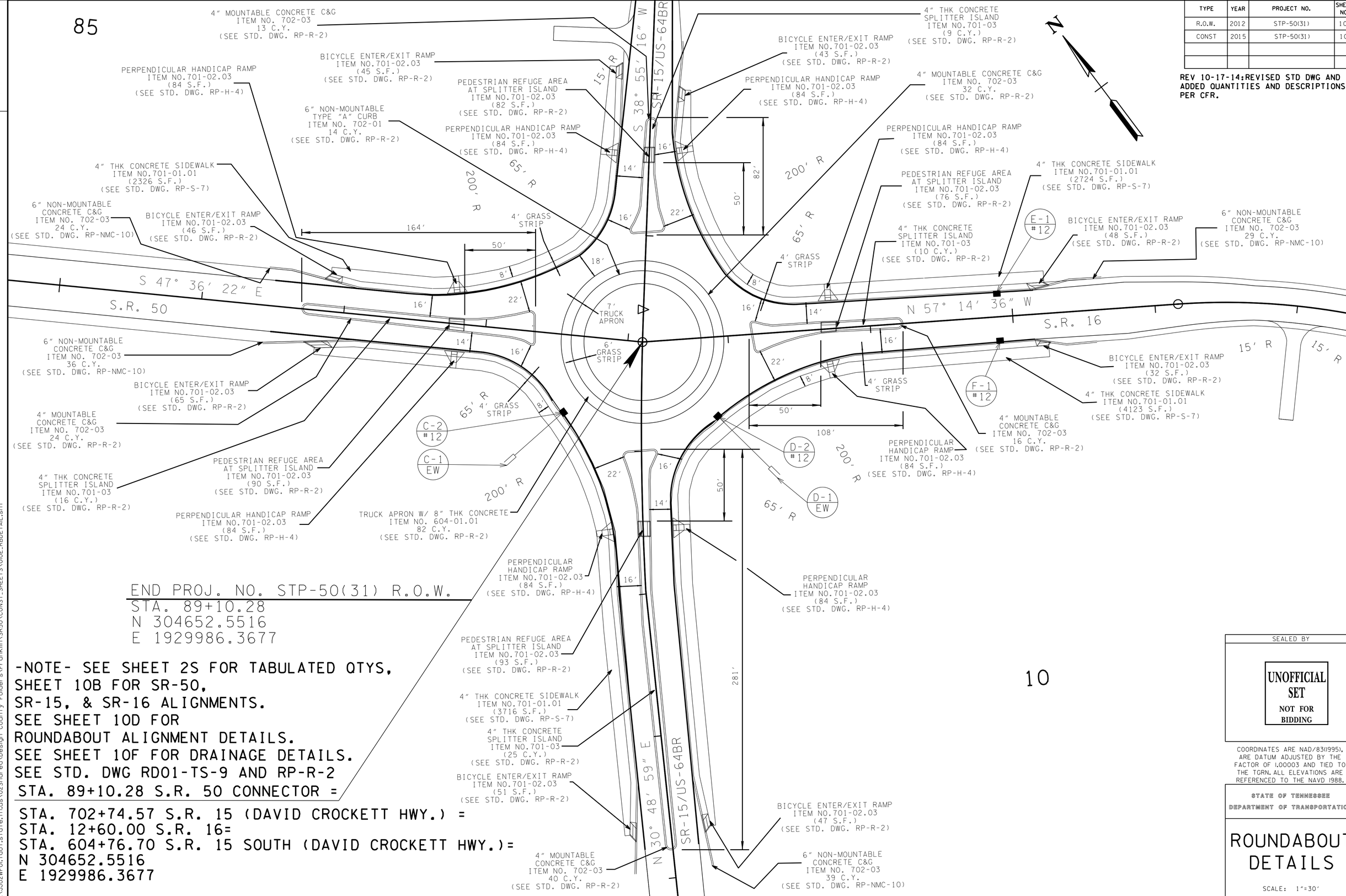
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

85

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	10E
CONST	2015	STP-50(31)	10E

REV 10-17-14:REVISED STD DWG AND ADDED QUANTITIES AND DESCRIPTIONS PER CFR.



END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28
N 304652.5516
E 1929986.3677

-NOTE- SEE SHEET 2S FOR TABULATED QTYS,
SHEET 10B FOR SR-50,
SR-15, & SR-16 ALIGNMENTS.
SEE SHEET 10D FOR
ROUNDABOUT ALIGNMENT DETAILS.
SEE SHEET 10F FOR DRAINAGE DETAILS.
SEE STD. DWG RD01-TS-9 AND RP-R-2

STA. 89+10.28 S.R. 50 CONNECTOR =
STA. 702+74.57 S.R. 15 (DAVID CROCKETT HWY.) =
STA. 12+60.00 S.R. 16=
STA. 604+76.70 S.R. 15 SOUTH (DAVID CROCKETT HWY.)=
N 304652.5516
E 1929986.3677

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROUNDABOUT DETAILS

SCALE: 1"=30'

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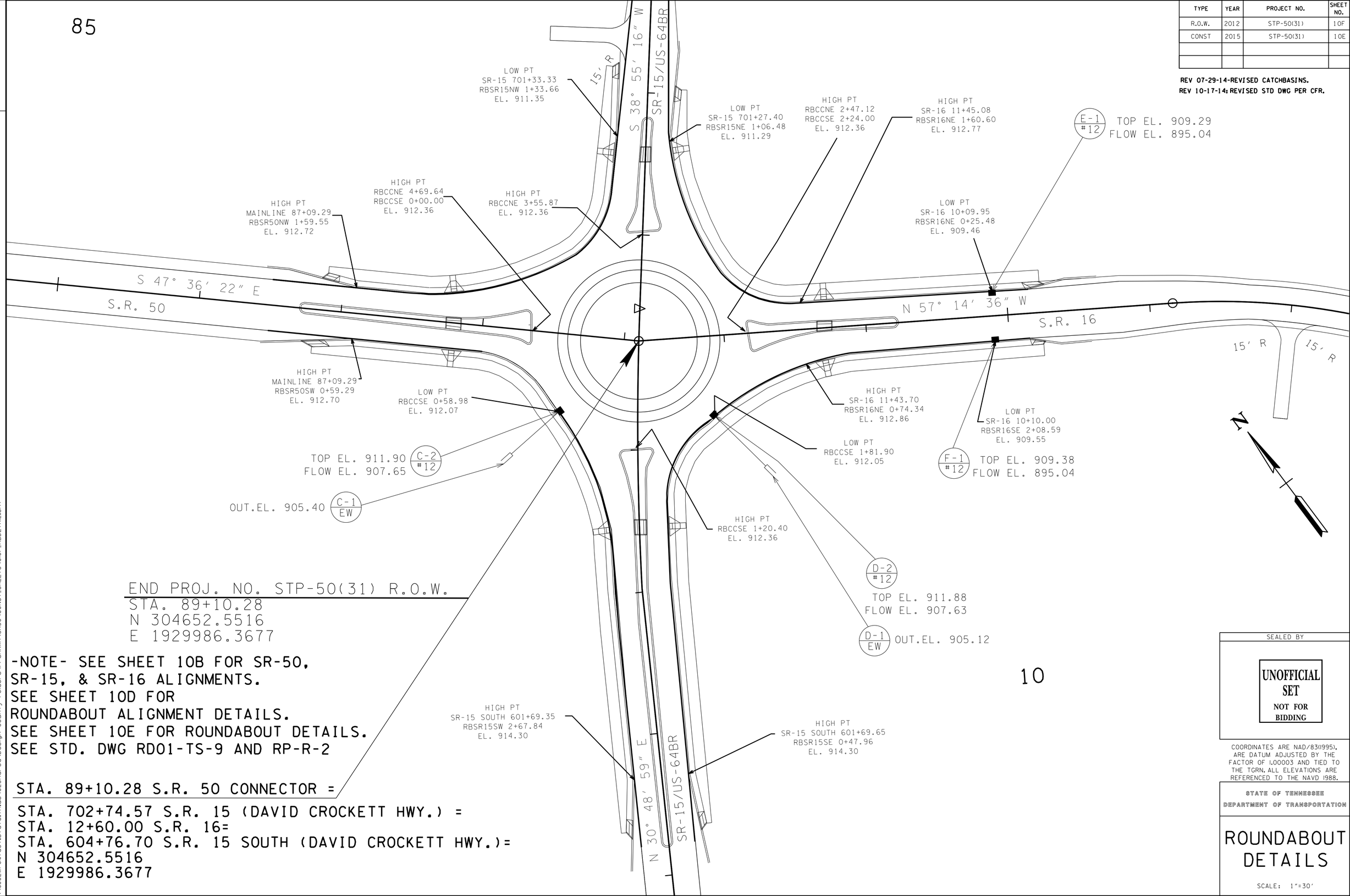
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

85

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	10F
CONST	2015	STP-50(31)	10E

REV 07-29-14-REVISED CATCHBASINS.
REV 10-17-14: REVISED STD DWG PER CFR.



END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28
N 304652.5516
E 1929986.3677

-NOTE- SEE SHEET 10B FOR SR-50, SR-15, & SR-16 ALIGNMENTS.
SEE SHEET 10D FOR ROUNDABOUT ALIGNMENT DETAILS.
SEE SHEET 10E FOR ROUNDABOUT DETAILS.
SEE STD. DWG RD01-TS-9 AND RP-R-2

STA. 89+10.28 S.R. 50 CONNECTOR =
STA. 702+74.57 S.R. 15 (DAVID CROCKETT HWY.) =
STA. 12+60.00 S.R. 16=
STA. 604+76.70 S.R. 15 SOUTH (DAVID CROCKETT HWY.)=
N 304652.5516
E 1929986.3677

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROUNDABOUT DETAILS

SCALE: 1"=30'

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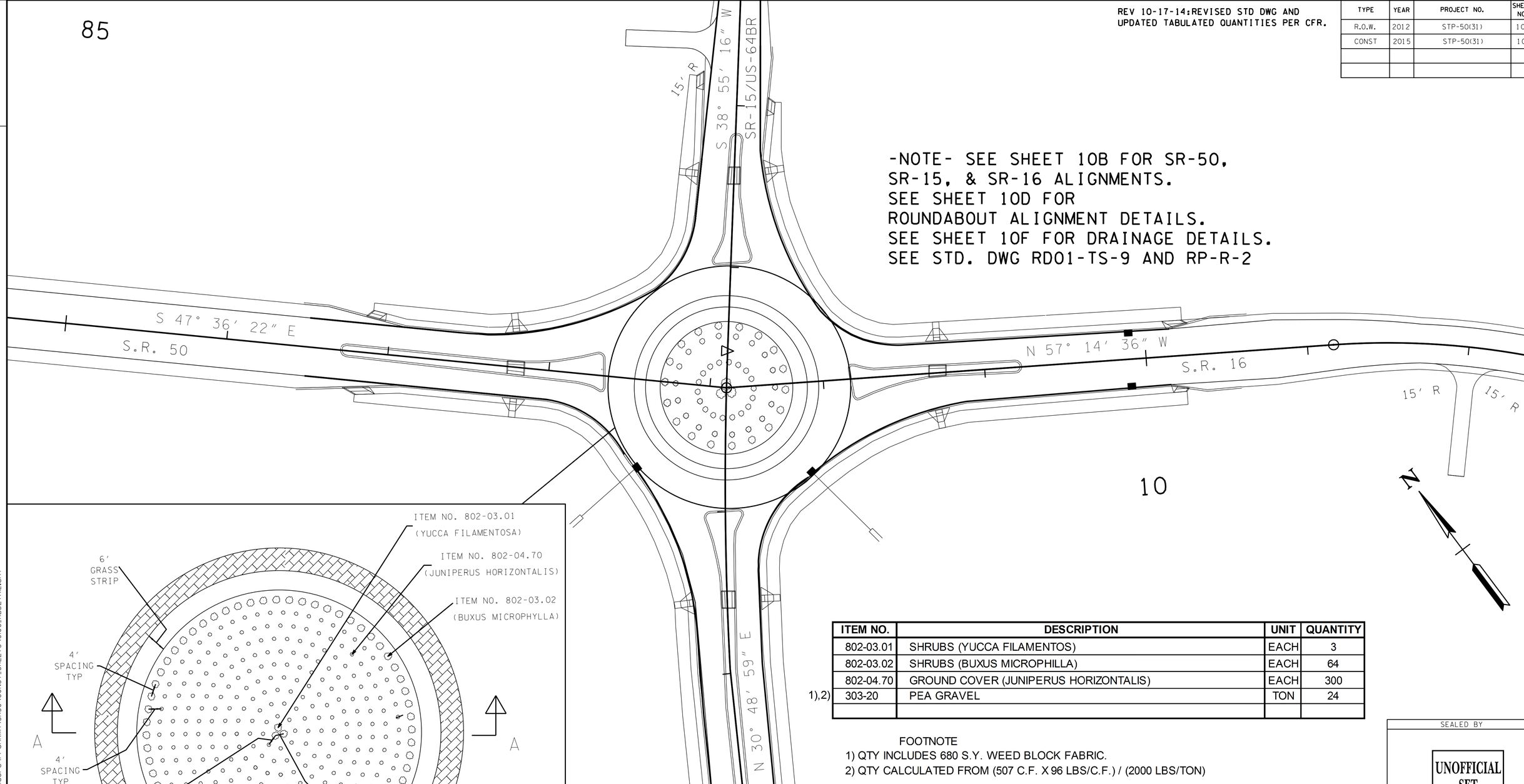
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

85

REV 10-17-14:REVISED STD DWG AND UPDATED TABULATED QUANTITIES PER CFR.

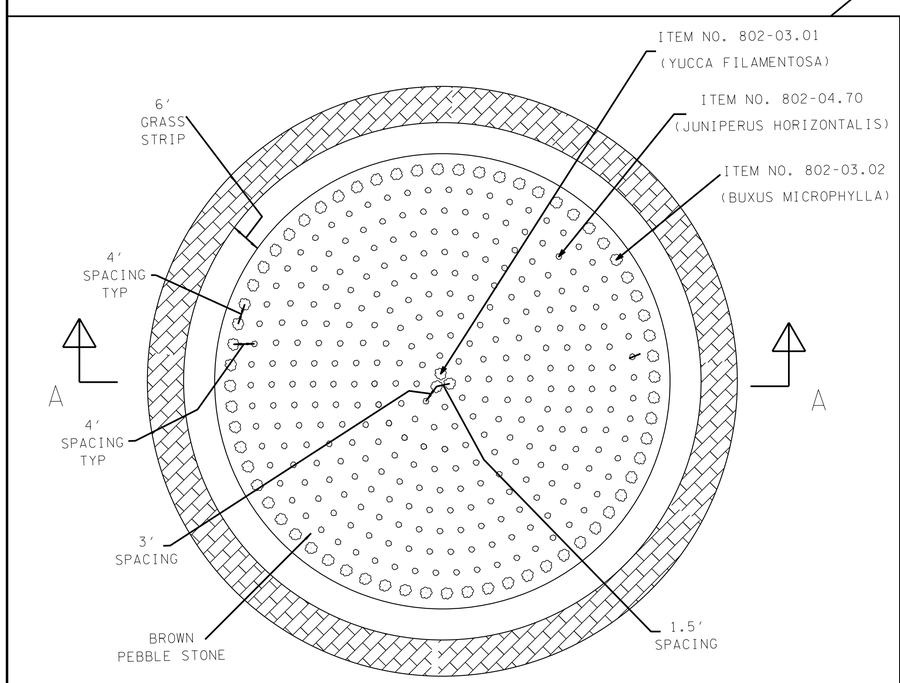
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	10G
CONST	2015	STP-50(31)	10G



-NOTE- SEE SHEET 10B FOR SR-50, SR-15, & SR-16 ALIGNMENTS.
SEE SHEET 10D FOR ROUNDABOUT ALIGNMENT DETAILS.
SEE SHEET 10F FOR DRAINAGE DETAILS.
SEE STD. DWG RD01-TS-9 AND RP-R-2

10

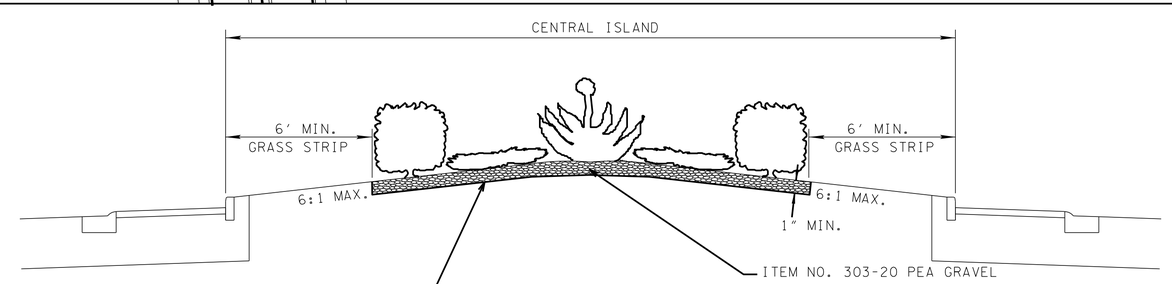
N



ROUNDABOUT PLANTING DETAIL SCALE: 1″=15′

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	802-03.01	SHRUBS (YUCCA FILAMENTOS)	EACH	3
	802-03.02	SHRUBS (BUXUS MICROPHILLA)	EACH	64
	802-04.70	GROUND COVER (JUNIPERUS HORIZONTALIS)	EACH	300
1),2)	303-20	PEA GRAVEL	TON	24

FOOTNOTE
1) QTY INCLUDES 680 S.Y. WEED BLOCK FABRIC.
2) QTY CALCULATED FROM (507 C.F. X 96 LBS/C.F.) / (2000 LBS/TON)



SECTION A-A
(BASED ON STD. DWG. RD01-SD-2 AND RD-TS-9)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROUNDABOUT PLANTING DETAIL

SCALE: 1″=30′

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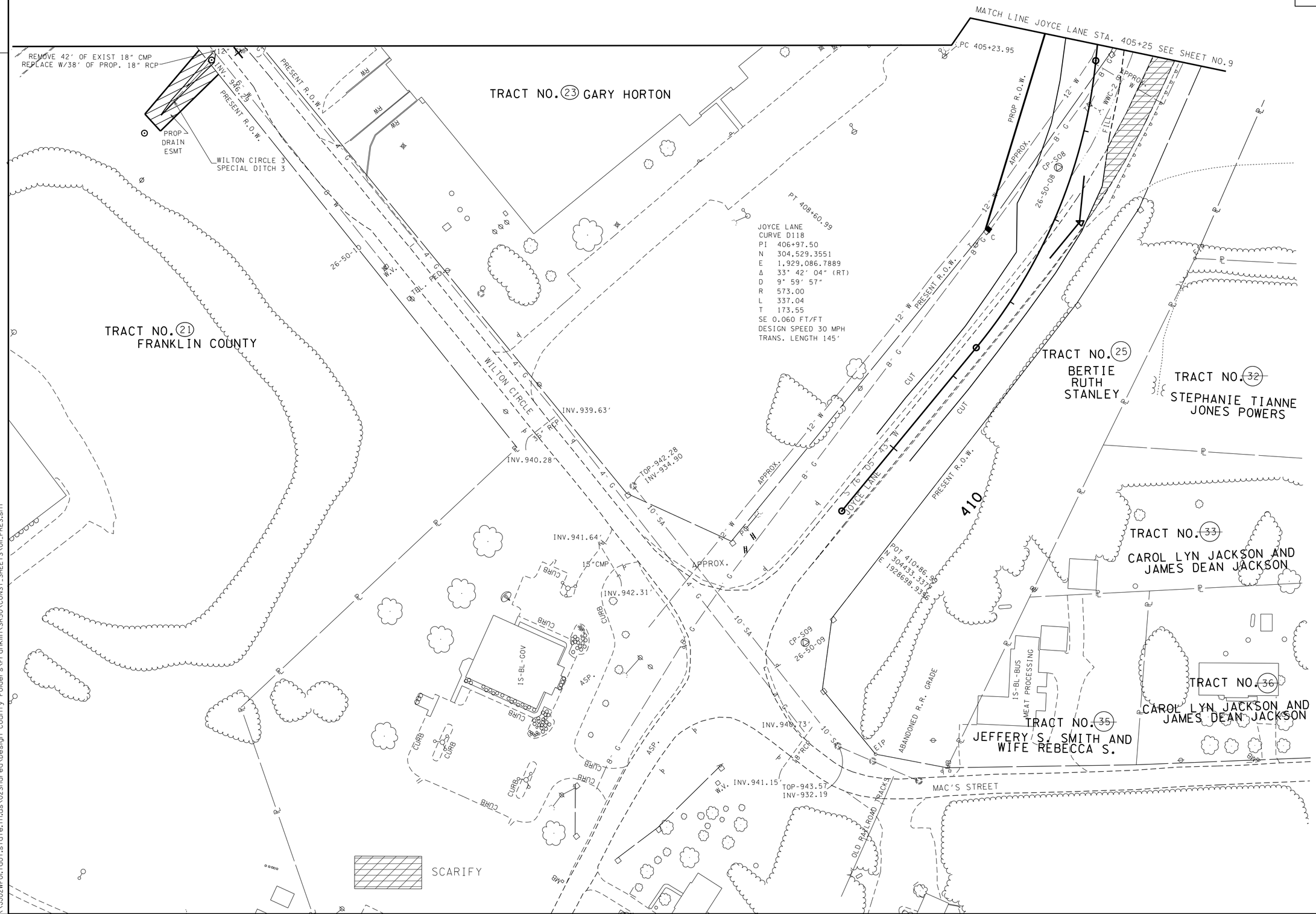
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	11
CONST	2015	STP-50(31)	11



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

JOYCE LANE
STA.405+25 TO STA.413+52

SCALE: 1"=50'

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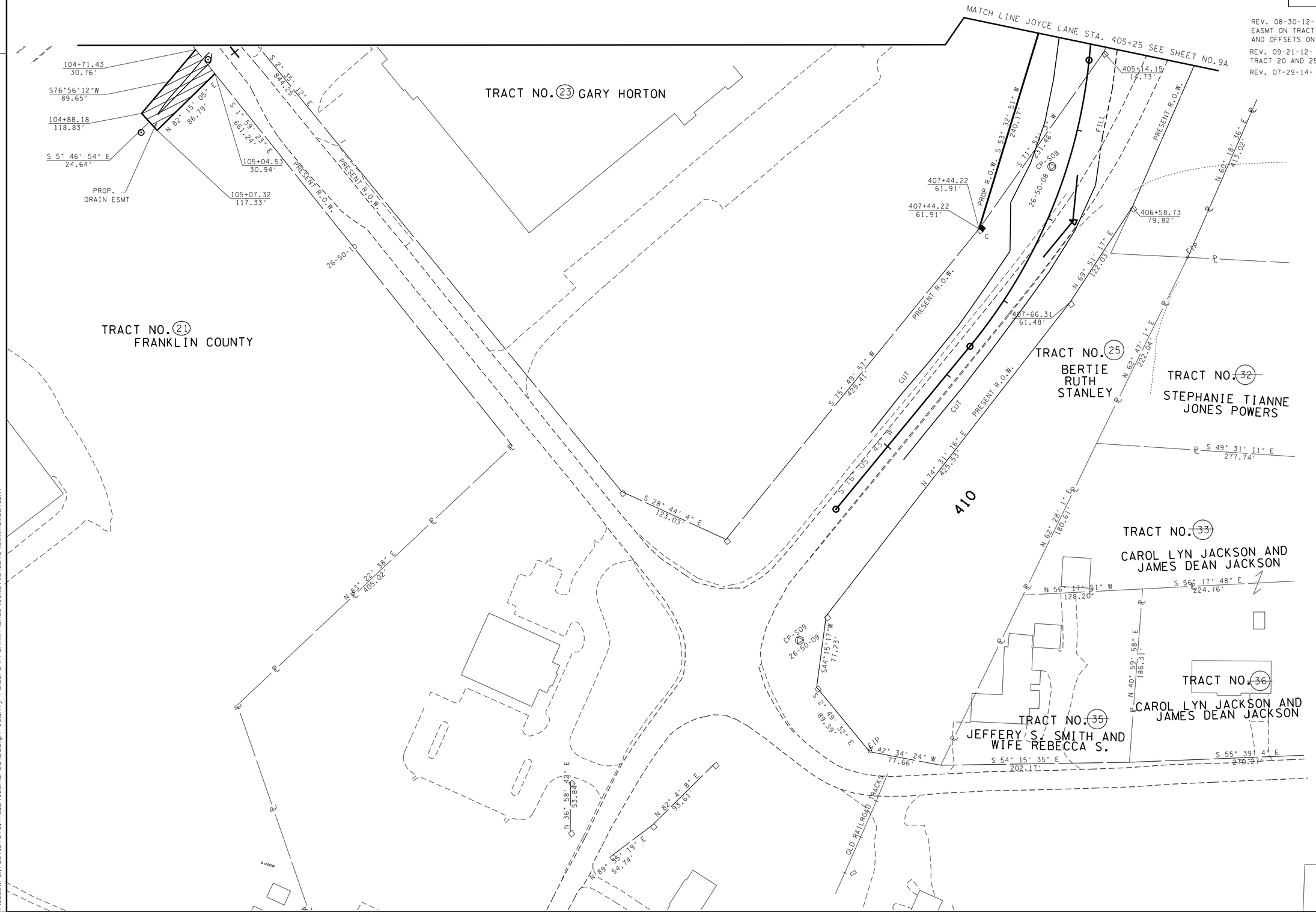
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	11A
CONST	2015	STP-50(31)	11A

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

REV. 08-30-12- REVISED STA. AND OFFSET FOR DRAIN. EASMT ON TRACT 21. REVISED PRESENT ROW STA. AND OFFSETS ON JOYCE LN.

REV. 09-21-12- REVISED STA. AND OFFSET FOR TRACT 20 AND 25.

REV. 07-29-14- ADDED EXIST BUILDINGS AND RDS.



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UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

JOYCE LANE
STA.405+25 TO STA.413+52

SCALE: 1"=50'

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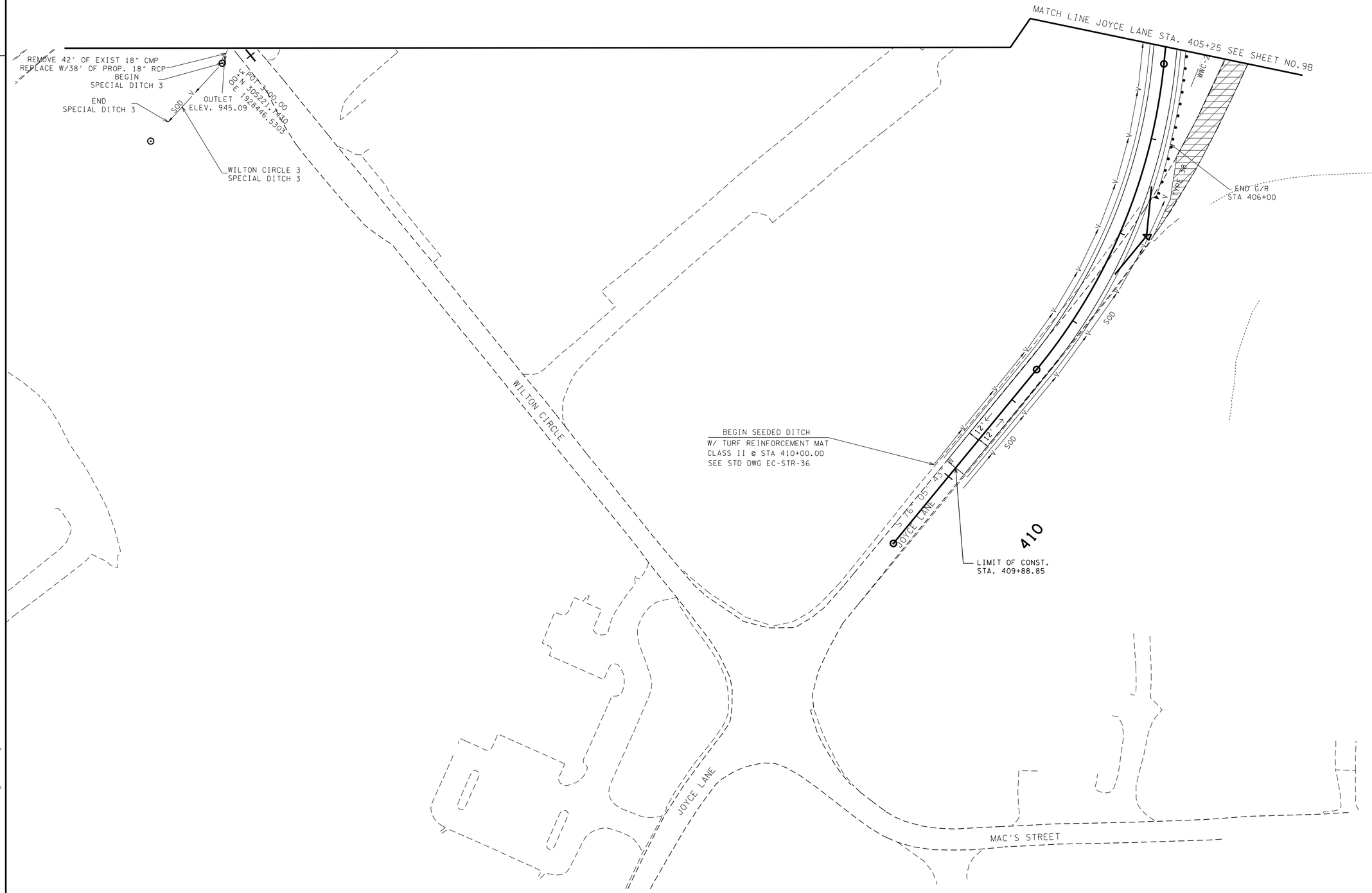
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	11B
CONST	2015	STP-50(31)	11B

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



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

JOYCE LANE
STA.405+25 TO STA.413+52

SCALE: 1"=50'

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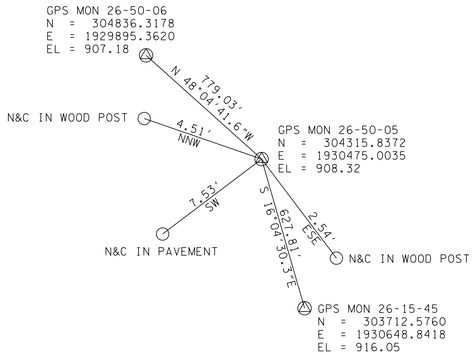
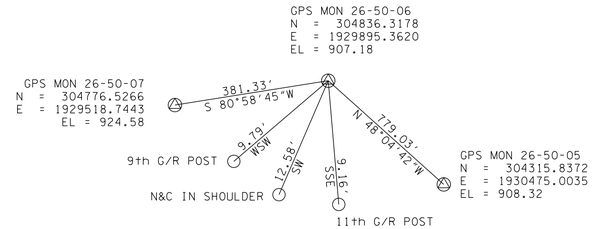
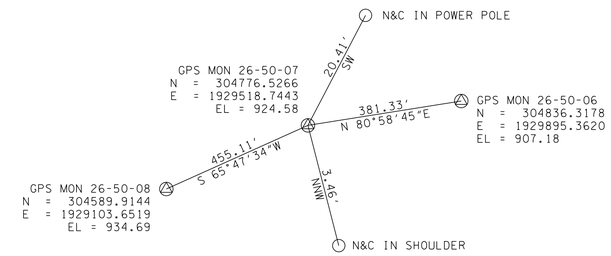
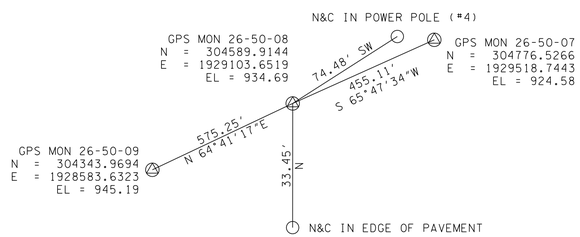
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

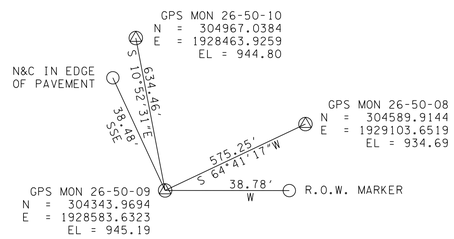
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	12
CONST	2015	STP-50(31)	12

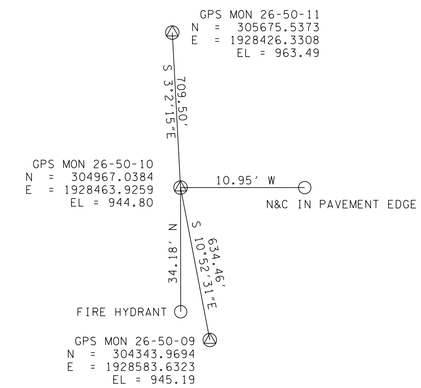


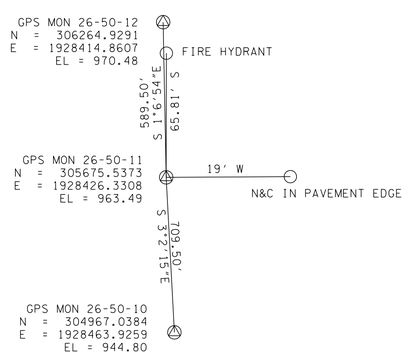


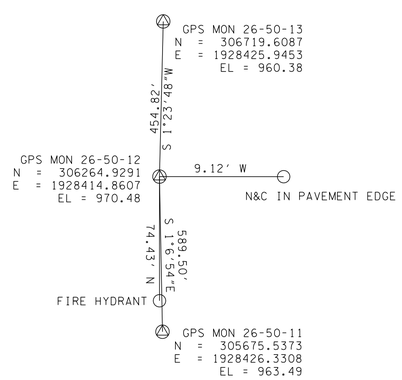


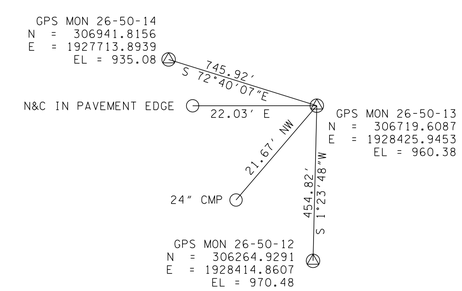












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COORDINATES ARE NAD/B31(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONTROL POINTS

STA.54+37.93 TO STA.87+25.22

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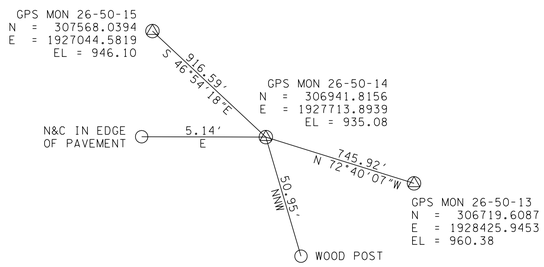
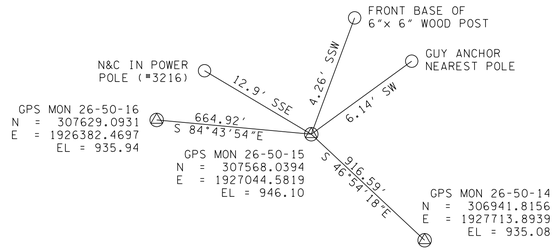
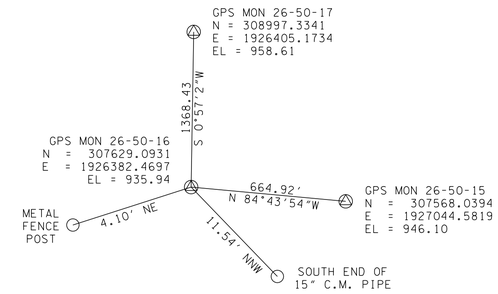
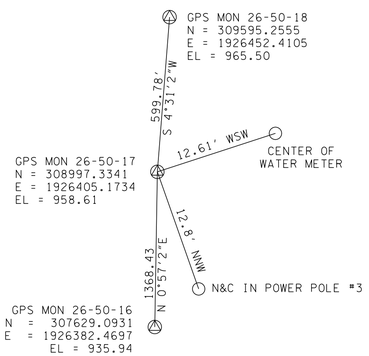
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

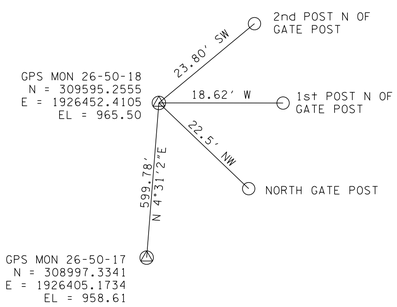
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	12A
CONST	2015	STP-50(31)	12A

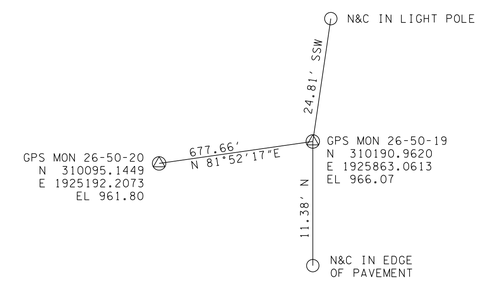


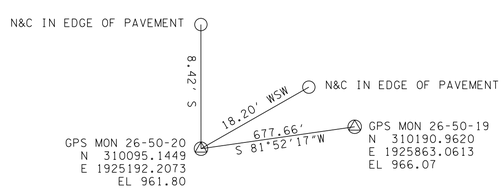












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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CONTROL POINTS

STA.12+00.04 TO STA.54+37.93

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

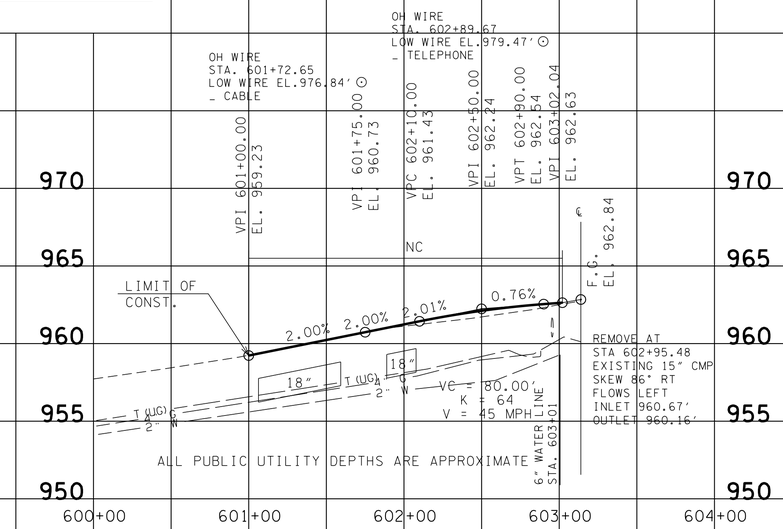
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	13
CONST	2015	STP-50(31)	13

REV 02/26/2014-REVISED PIPE AT STA. 601+18.27 ON COUTTA CIRCLE

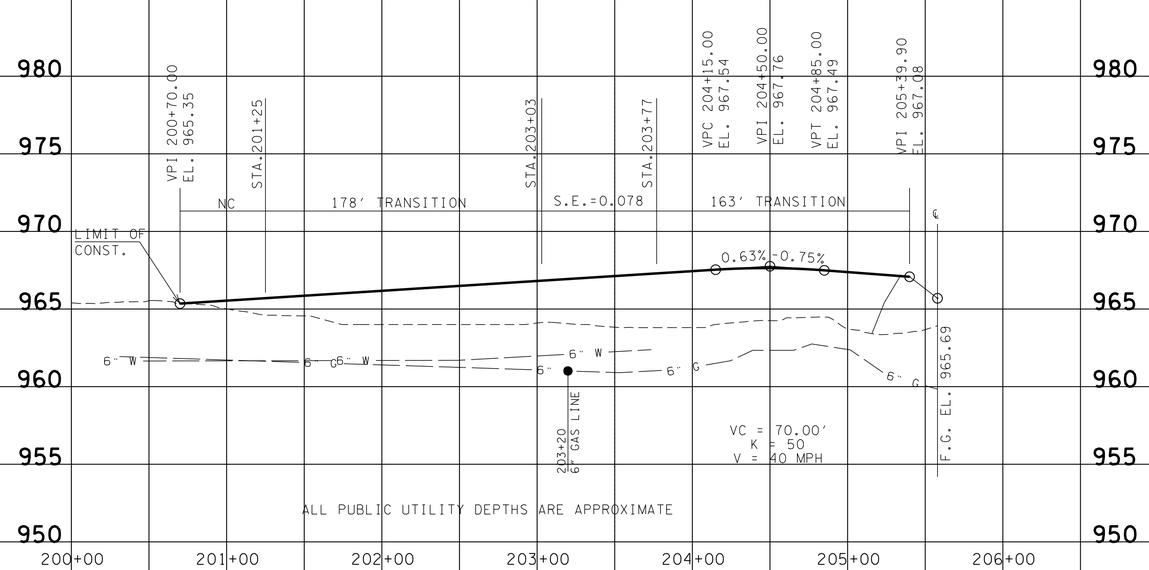
REV 07-29-14-ADDED SIDEDRAIN TABLE.
REV 10-17-14-ADDED LABELS. REVISED COUTTA ALIGNMENT.

COUTTA CIRCLE SIDEDRAIN

Station	LT	RT	LENGTH (ft)	SIZE (in)
601+18.27	X		53	18
601+98.35		X	18	18



COUTTA CIRCLE
STA 12+68.83 (LT) SR-50 =
STA 603+13.94 COUTTA CIRCLE



OLD SR-50
STA 19+20.00 (LT) SR-50 =
STA 205+57.90 OLD SR-50

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COUTTA CIRCLE

OLD SR-50

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS

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

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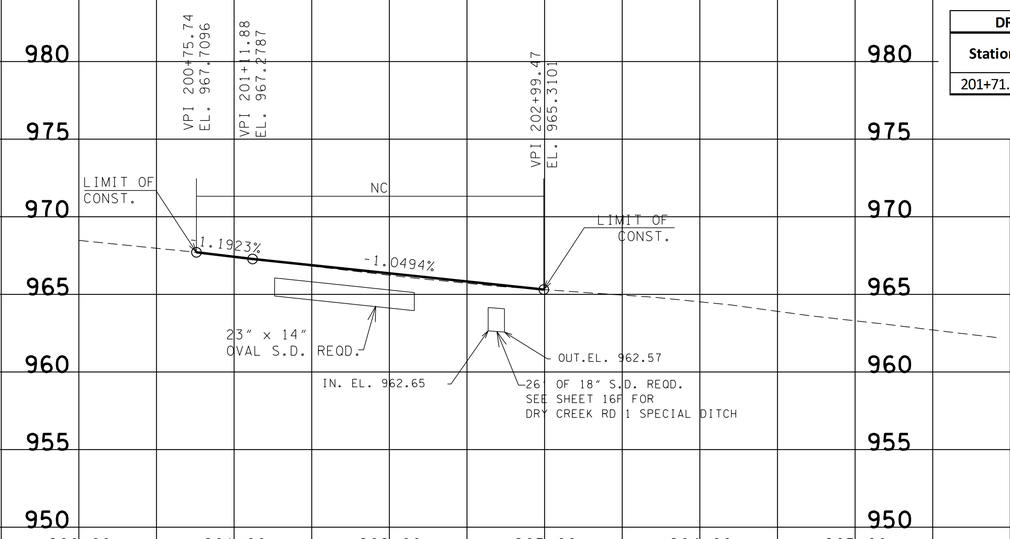
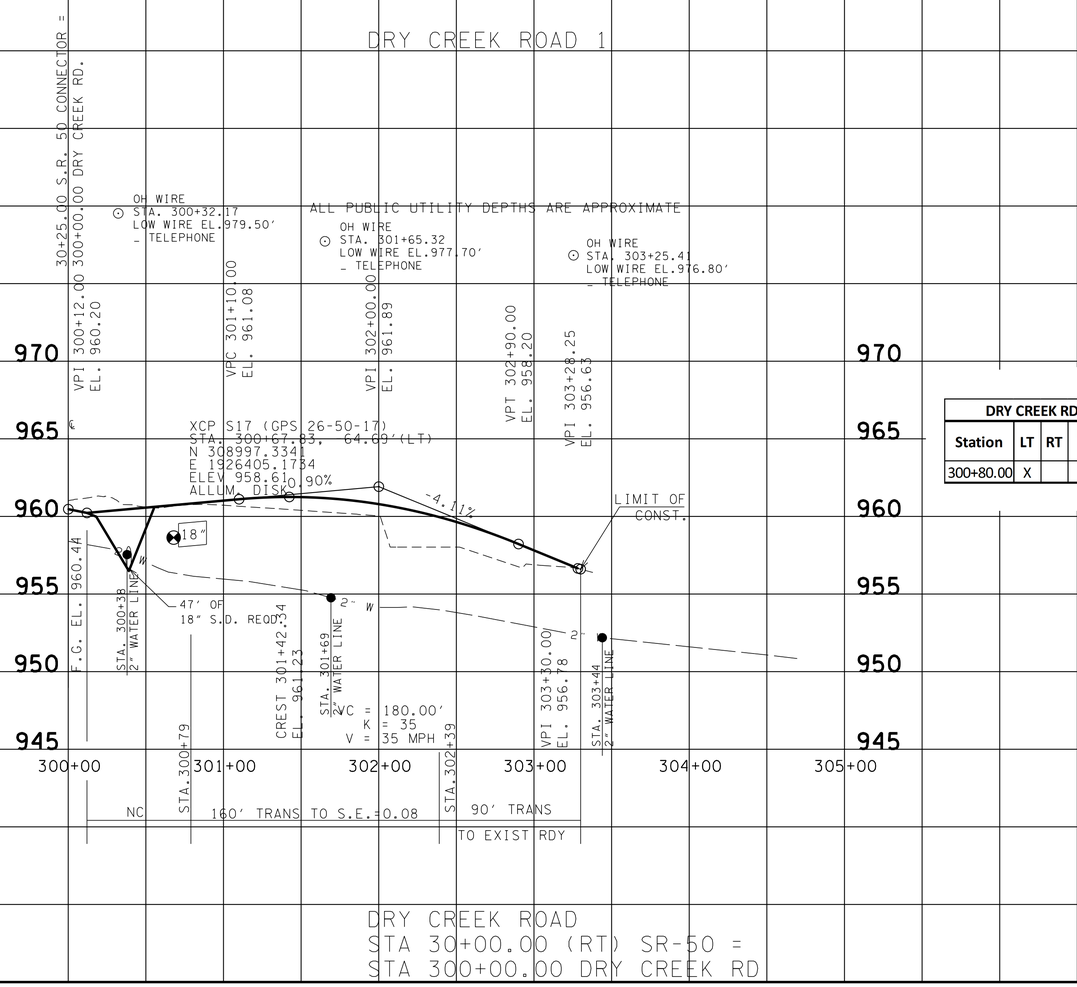
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	13A
CONST	2015	STP-50(31)	13A

REV 07-29-14-ADDED SIDEDRAIN TABLE.
REV 10-17-14-REVISED VC ON
DRY CK RD PER CFR.



DRY CREEK RD 1 SIDEDRAIN				
Station	LT	RT	LENGTH (ft)	SIZE (in)
201+71.08		X	90	23X14



DRY CREEK RD SIDEDRAIN				
Station	LT	RT	LENGTH (ft)	SIZE (in)
300+80.00	X		18	18

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DRY CREEK ROAD 1

DRY CREEK ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS

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

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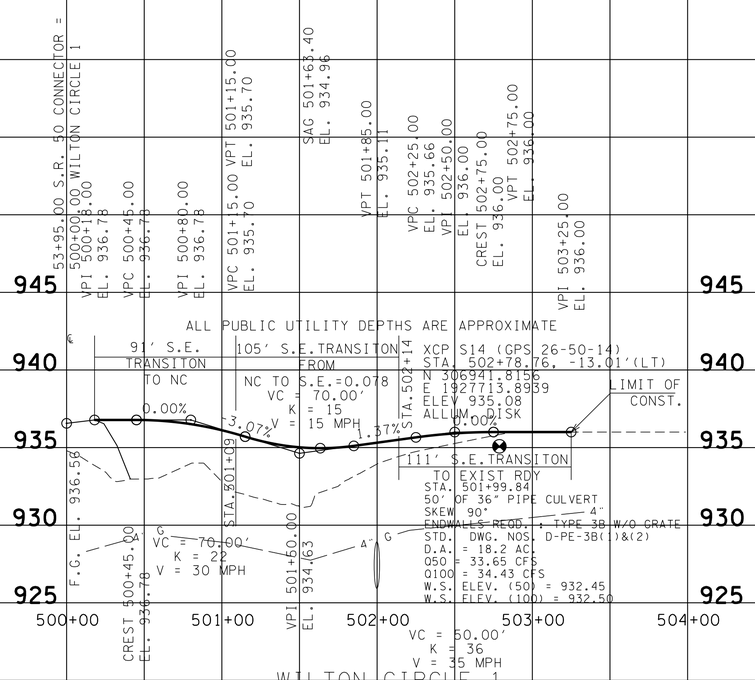
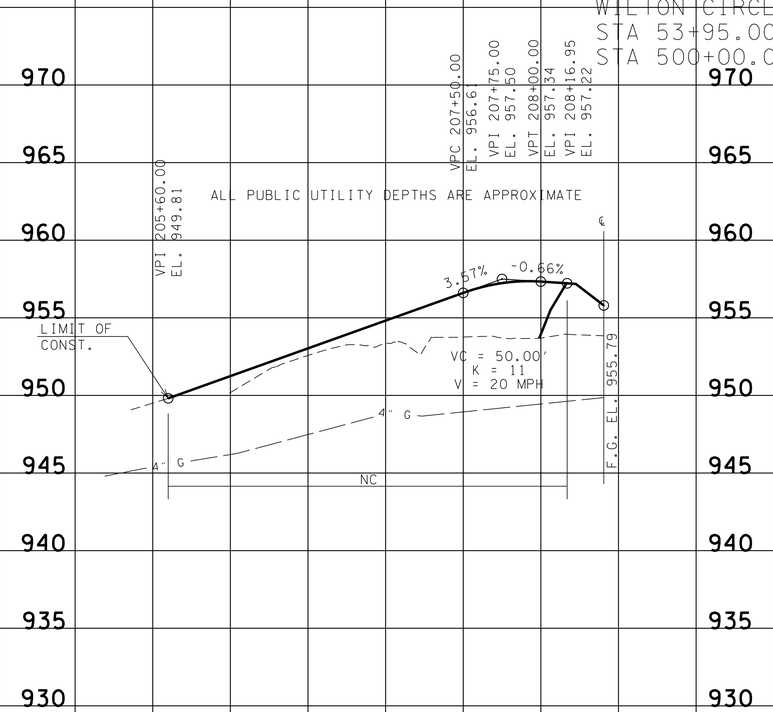
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	13B
CONST	2015	STP-50(31)	13B

REV 10-17-14: ADDED GAS LINE TO WILTON CIRCLE 2.ADDED LABEL.



WILTON CIRCLE 1
STA 53+95.00 (RT) SR-50 =
STA 500+00.00 WILTON CIRCLE 1



WILTON CIRCLE 2
STA 59+80.32 (LT) SR-50 =
STA 208+40.56 WILTON CIRCLE 2

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WILTON CIRCLE 1
WILTON CIRCLE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS

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

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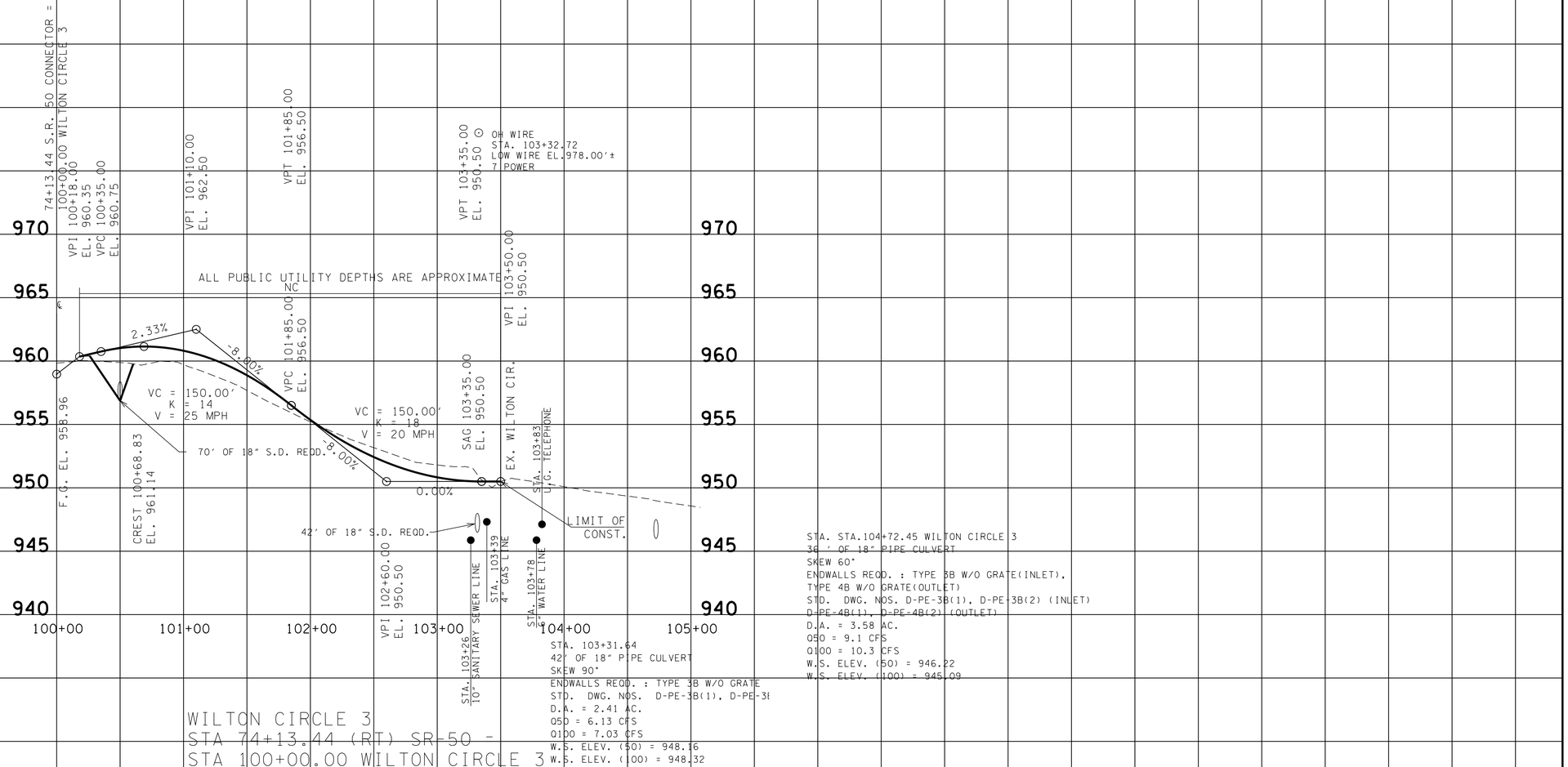
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	13C
CONST	2015	STP-50(31)	13C

REV 10-17-14: ADDED LABEL.



SEE SHEET 16E FOR
WILTON CIRCLE 3
SPECIAL DITCH 1, 2, & 3 DETAILS

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WILTON CIRCLE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS

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

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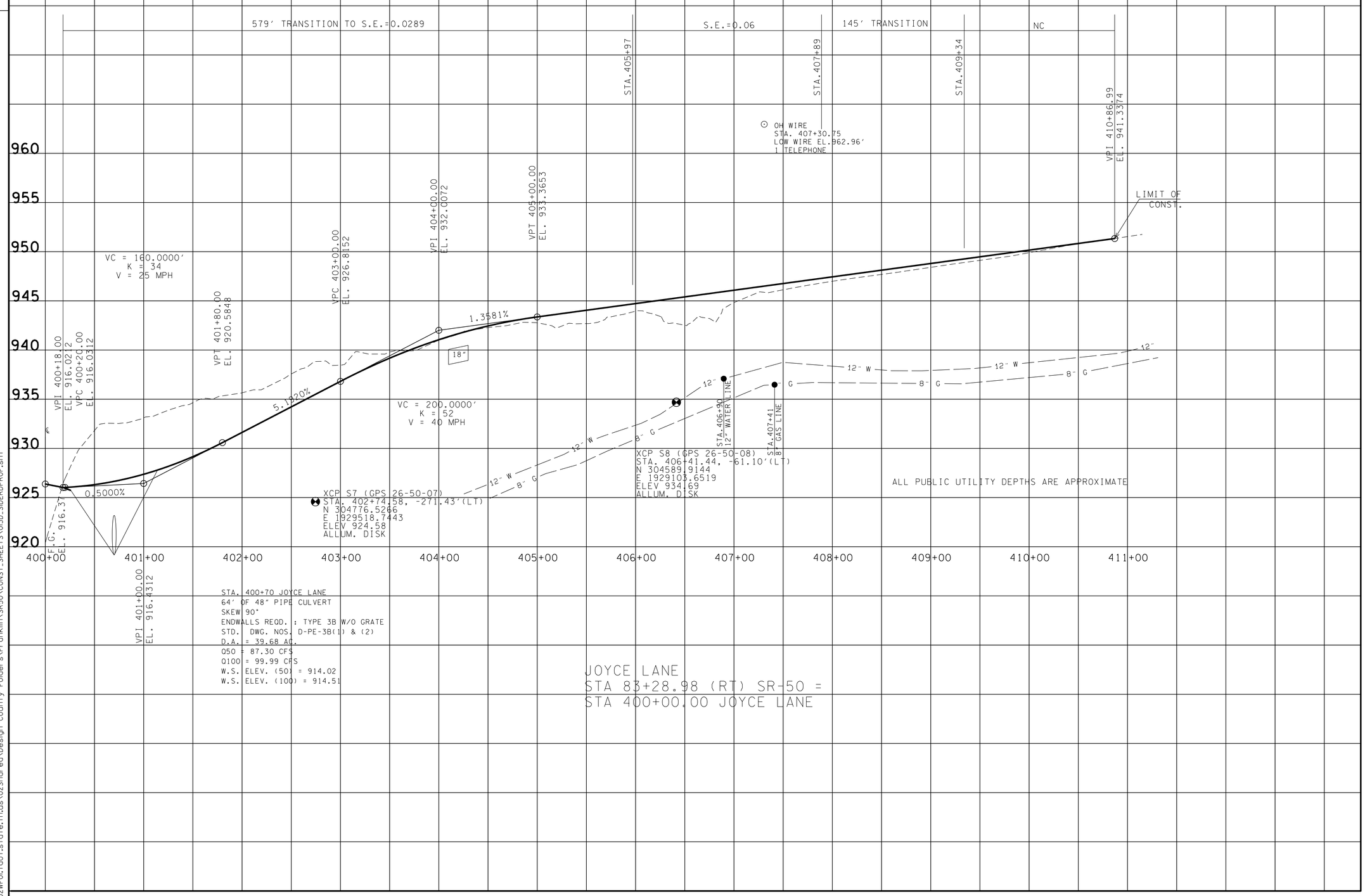
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	13D
CONST	2015	STP-50(31)	13D

REV 07-29-14-ADDED SIDEDRAIN TABLE.
REV 10-17-14-ADDED LABEL.

JOYCE LANE SIDEDRAIN

Station	LT	RT	LENGTH (ft)	SIZE (in)
404+19.85	X		15	18



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JOYCE LANE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS

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

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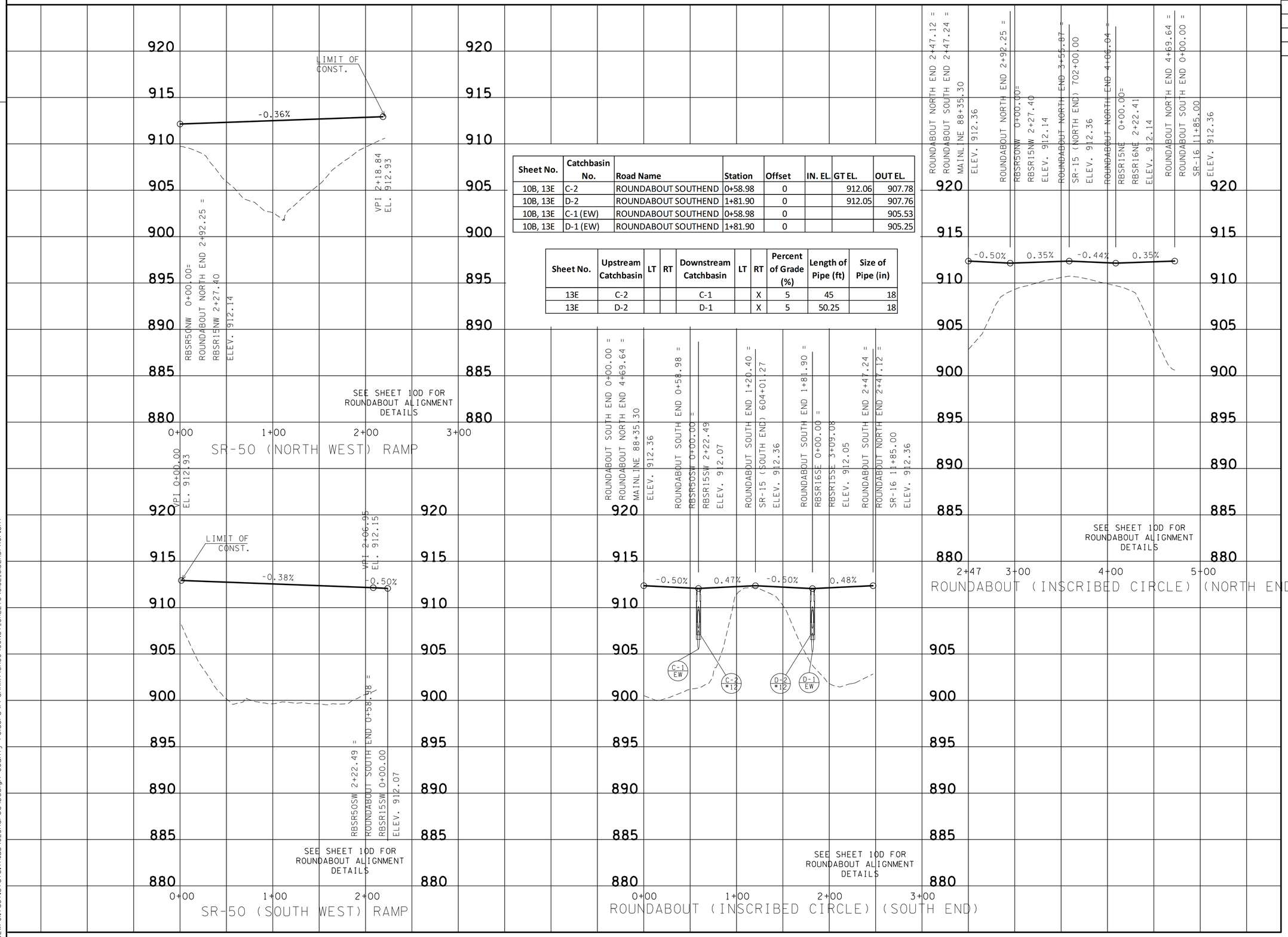
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	13E
CONST	2015	STP-50(31)	13E

REV 07-29-14-ADDED CB TABLES.
REVISED CATCHBASINS.

REV 10-17-14-ADDED LABEL.



Sheet No.	Catchbasin No.	Road Name	Station	Offset	IN. EL.	GT EL.	OUT EL.
10B, 13E	C-2	ROUNDABOUT SOUTHEND	0+58.98	0		912.06	907.78
10B, 13E	D-2	ROUNDABOUT SOUTHEND	1+81.90	0		912.05	907.76
10B, 13E	C-1 (EW)	ROUNDABOUT SOUTHEND	0+58.98	0			905.53
10B, 13E	D-1 (EW)	ROUNDABOUT SOUTHEND	1+81.90	0			905.25

Sheet No.	Upstream Catchbasin	LT	RT	Downstream Catchbasin	LT	RT	Percent of Grade (%)	Length of Pipe (ft)	Size of Pipe (in)
13E	C-2			C-1		X	5	45	18
13E	D-2			D-1		X	5	50.25	18

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SR-50 NW & SW ROUNDABOUT

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS

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

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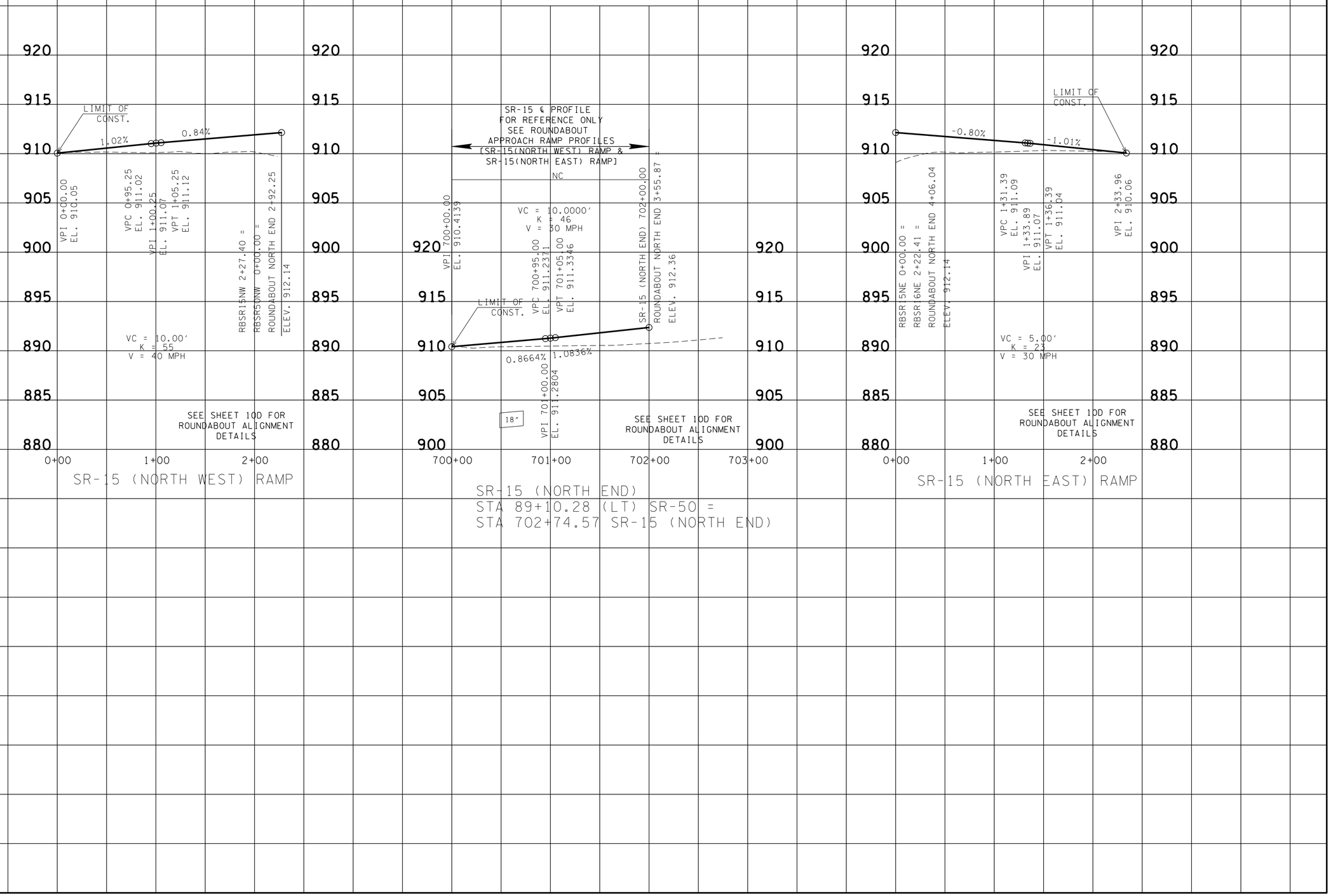
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	13F
CONST	2015	STP-50(31)	13F

REV 07-29-14-ADDED SIDE DRAIN TABLE.
REV 10-17-14-ADDED LABEL.

SR-15(NORTH END) SIDEDRAIN				
Station	LT	RT	LENGTH (ft)	SIZE (in)
700+60.56		X	24	18



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SR-15 NORTH END
SR-15 NW & NE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS

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

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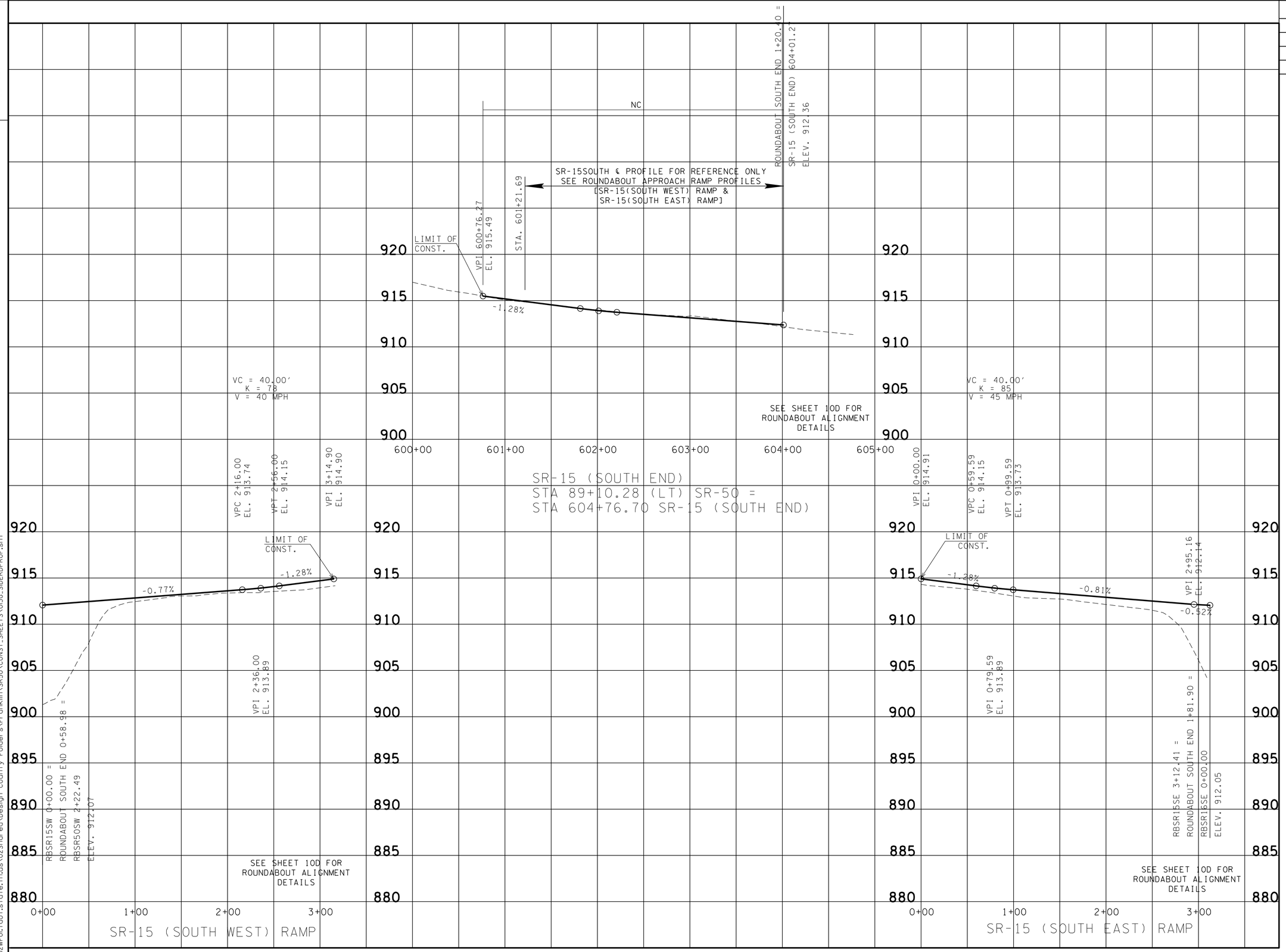
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	13G
CONST	2015	STP-50(31)	13G

REV 10-17-14: ADDED LABEL.



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SR-15 SOUTH END
SR-15 SW & SE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS

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

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

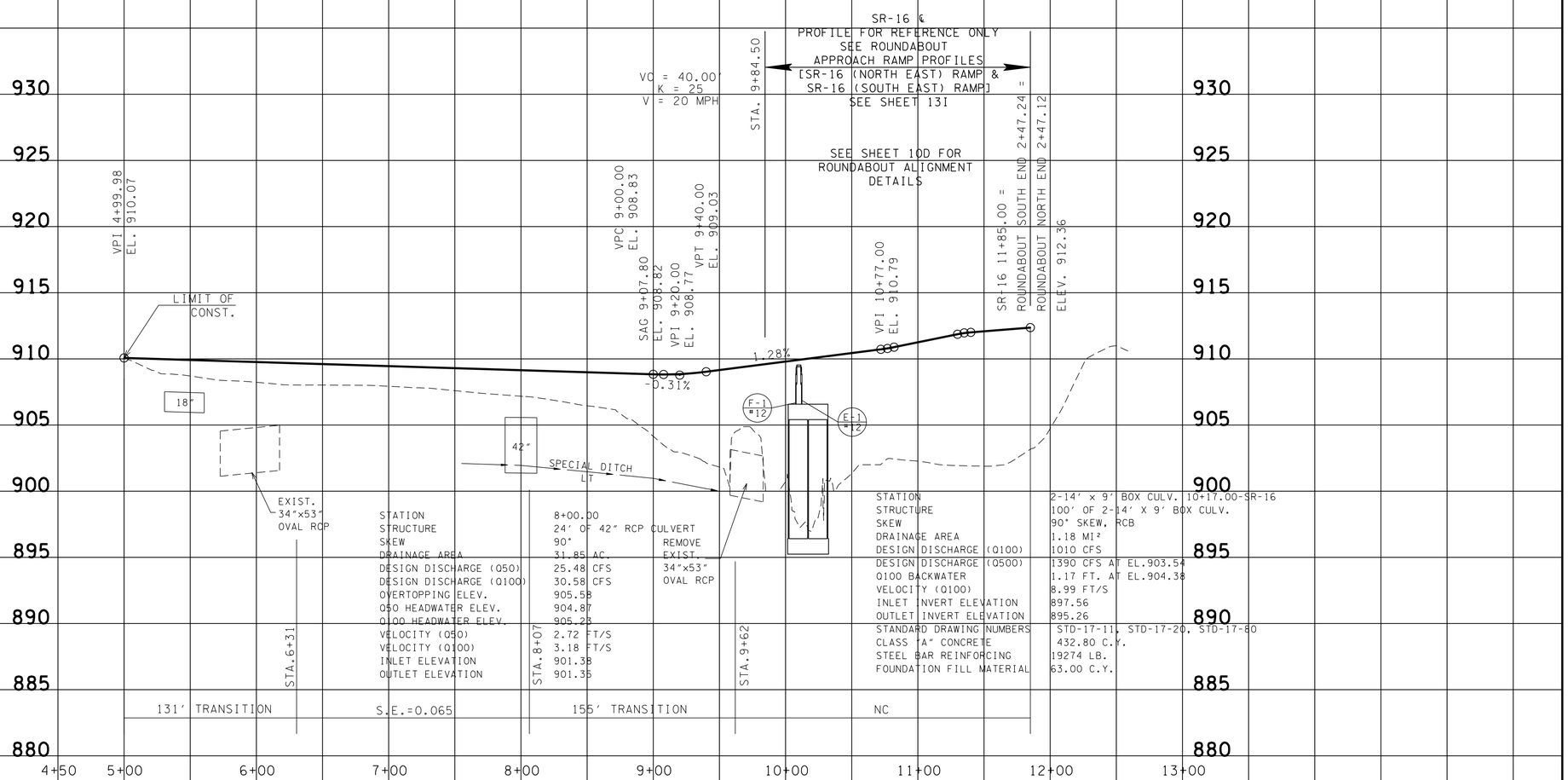
Sheet No.	Catchbasin No.	Road Name	Station	Offset	IN. EL.	GT EL.	OUT EL.
10B,13H,13J	E-1	SR-16	10+09.97	16.27		909.46	
10B, 13H,13J	F-1	SR-16	10+10.01	-16.78		909.55	

SR-16 SIDEDRAINS

Station	LT	RT	LENGTH (ft)	SIZE (in)
5+45.58		X	30	18
8+00.00	X		24	42

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	13H
CONST	2015	STP-50(31)	13H

REV 07-29-14-ADDED CB AND SD TABLE.
REVISED CATCHBASINS.
REV 10-17-14-ADDED LABEL.



STATION	8+00.00
STRUCTURE	24' OF 42" RCP CULVERT
SKEW	90°
DRAINAGE AREA	31.85 AC.
DESIGN DISCHARGE (Q50)	25.48 CFS
DESIGN DISCHARGE (Q100)	30.58 CFS
OVERTOPPING ELEV.	905.58
Q50 HEADWATER ELEV.	904.87
Q100 HEADWATER ELEV.	905.23
VELOCITY (Q50)	2.72 FT/S
VELOCITY (Q100)	3.18 FT/S
INLET ELEVATION	901.38
OUTLET ELEVATION	901.35

REMOVE EXIST. 34"x53" OVAL RCP

STATION	10+17.00-SR-16
STRUCTURE	2-14' x 9' BOX CULV.
SKEW	100' OF 2-14' X 9' BOX CULV.
DRAINAGE AREA	90° SKEW, RCB
DESIGN DISCHARGE (Q100)	1.18 MI²
DESIGN DISCHARGE (Q500)	1010 CFS
Q100 BACKWATER	1390 CFS AT EL.903.54
VELOCITY (Q100)	1.17 FT. AT EL.904.38
INLET INVERT ELEVATION	8.99 FT/S
OUTLET INVERT ELEVATION	897.56
STANDARD DRAWING NUMBERS	895.26
CLASS "A" CONCRETE	STD-17-11, STD-17-20, STD-17-80
STEEL BAR REINFORCING	432.80 C.Y.
FOUNDATION FILL MATERIAL	19274 LB.
	63.00 C.Y.

SR-16
STA 89+10.28 SR-50 =
STA 12+60.00 SR-16

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SR-16

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS

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

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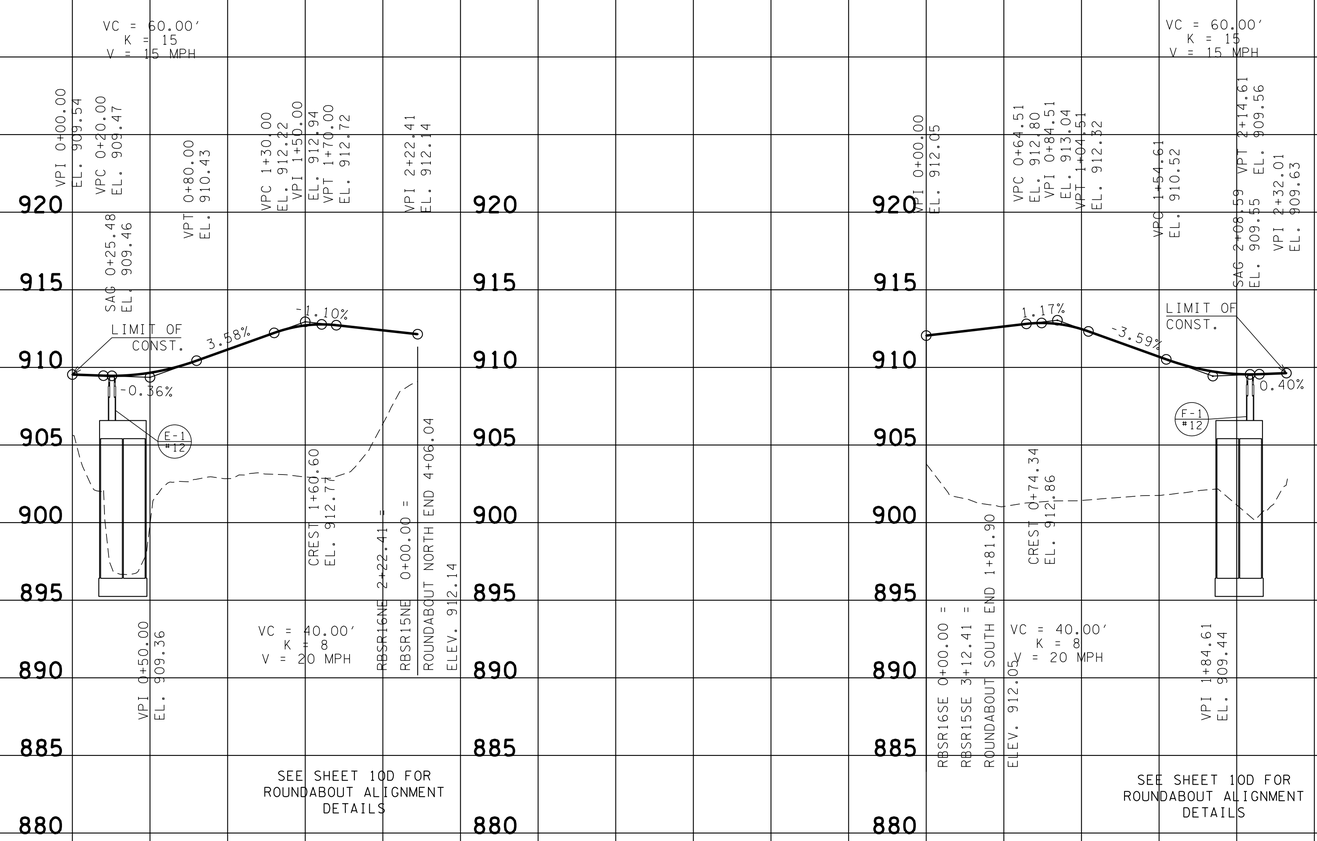
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

Sheet No.	Catchbasin No.	Road Name	Station	Offset	IN. EL.	GT EL.	OUT EL.
10B,13H,13J	E-1	SR-16	10+09.97	16.27		909.46	
10B, 13H,13J	F-1	SR-16	10+10.01	-16.78		909.55	

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	13I
CONST	2015	STP-50(31)	13J

REV 07-29-14-ADDED CB TABLE.
REVISED CATCHBASINS.
REV 10-17-14-ADDED LABEL.



STATION	2-14' x 9' BOX CULV. 10+17.00-SR-16
STRUCTURE	100' OF 2-14' X 9' BOX CULV.
SKEW	90° SKEW, RCB
DRAINAGE AREA	1.18 MI²
DESIGN DISCHARGE (Q100)	1010 CFS
DESIGN DISCHARGE (Q500)	1390 CFS AT EL.903.54
Q100 BACKWATER	1.17 FT. AT EL.904.38
VELOCITY (Q100)	8.99 FT/S
INLET INVERT ELEVATION	897.56
OUTLET INVERT ELEVATION	895.26
STANDARD DRAWING NUMBERS	STD-17-11, STD-17-20, STD-17-80
CLASS "A" CONCRETE	432.80 C.Y.
STEEL BAR REINFORCING	19274 LB.
FOUNDATION FILL MATERIAL	63.00 C.Y.

STATION	2-14' x 9' BOX CULV. 10+17.00-SR-16
STRUCTURE	100' OF 2-14' X 9' BOX CULV.
SKEW	90° SKEW, RCB
DRAINAGE AREA	1.18 MI²
DESIGN DISCHARGE (Q100)	1010 CFS
DESIGN DISCHARGE (Q500)	1390 CFS AT EL.903.54
Q100 BACKWATER	1.17 FT. AT EL.904.38
VELOCITY (Q100)	8.99 FT/S
INLET INVERT ELEVATION	897.56
OUTLET INVERT ELEVATION	895.26
STANDARD DRAWING NUMBERS	STD-17-11, STD-17-20, STD-17-80
CLASS "A" CONCRETE	432.80 C.Y.
STEEL BAR REINFORCING	19274 LB.
FOUNDATION FILL MATERIAL	63.00 C.Y.

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SR-16 NE & SE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS

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

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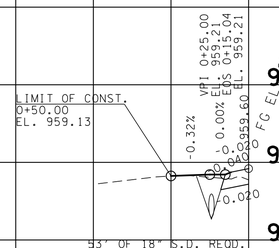
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

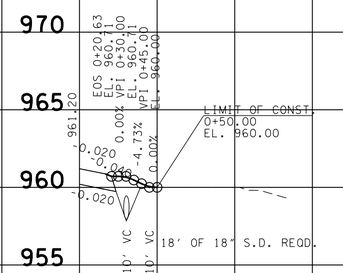
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	14
CONST.	2015	STP-50(31)	14

REV 02/26/2014-REVISED LENGTH OF PIPE ON COUTTA CIRCLE AT STA.601+18.27

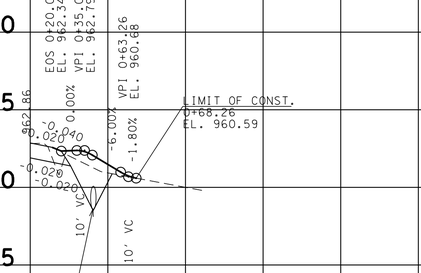
REV 10-17-14:REVISED PVT DR AT STA 14+00.47



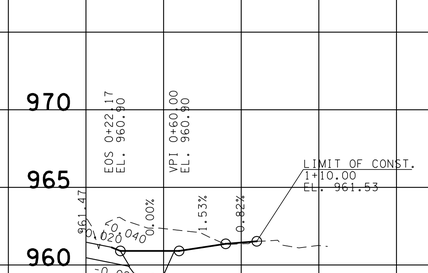
COUTTA CIRCLE
PVT. DR. LT. 601+18.27
TRACT NO. 4



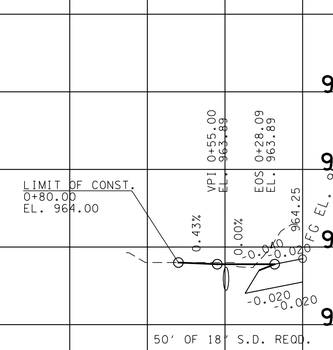
COUTTA CIRCLE
PVT. DR. RT. 601+98.35
TRACT NO.3



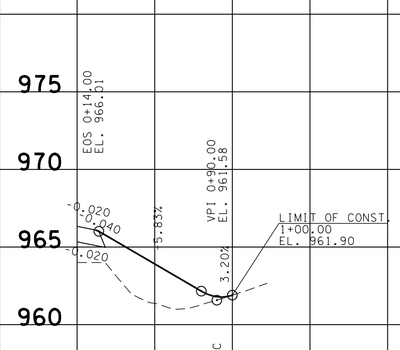
FLD. ENT. RT. 14+00.47
TRACT NO.5



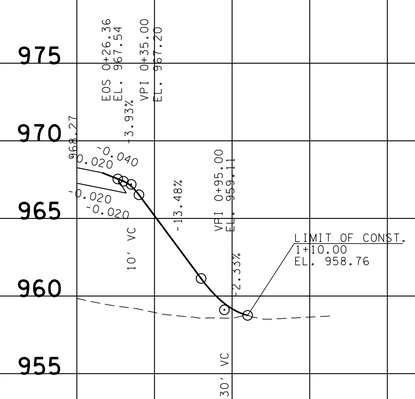
FLD. ENT. RT. 15+08.56
TRACT NO.6



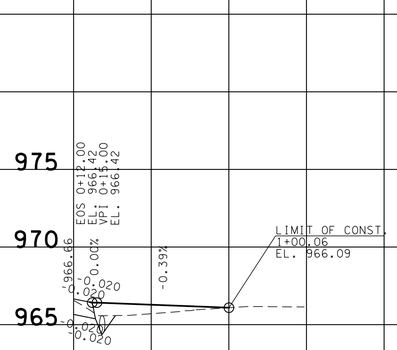
BUS. ENT. LT. 16+70.00
TRACT NO. 4



OLD SR-50
BUS. ENT. RT. 202+25.35
TRACT NO.9



FLD. ENT. RT. 21+82.03
TRACT NO.7



DRY CREEK ROAD 1
PVT. DR. RT. 201+71.08
TRACT NO.8

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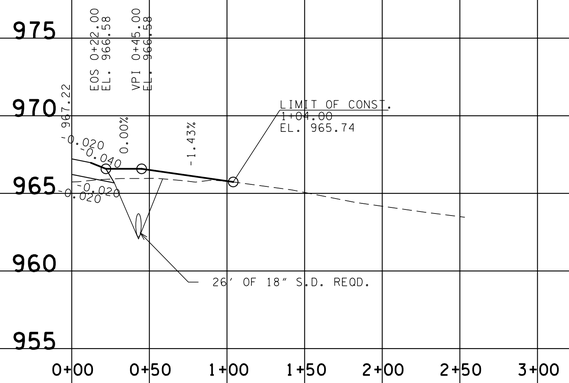
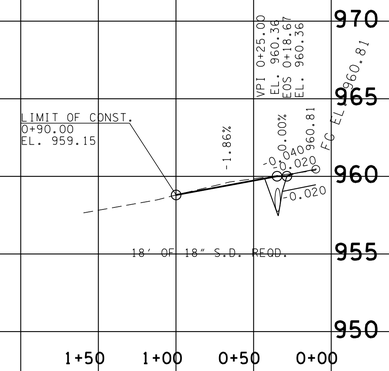
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

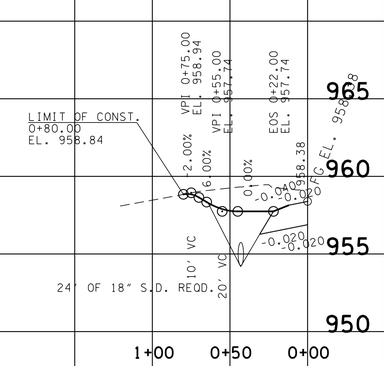
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	14A
CONST.	2015	STP-50(31)	14A



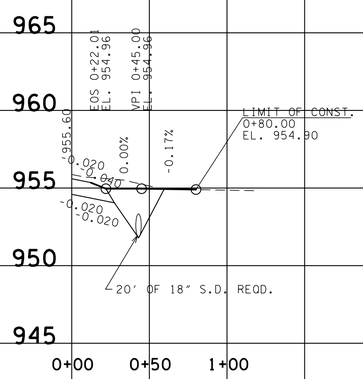
FLD. ENT. RT. 26+06.07
TRACT NO. 8



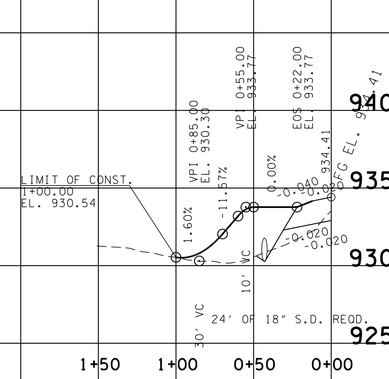
DRY CREEK ROAD
PVT. DR. LT. 300+80.00
TRACT NO.12



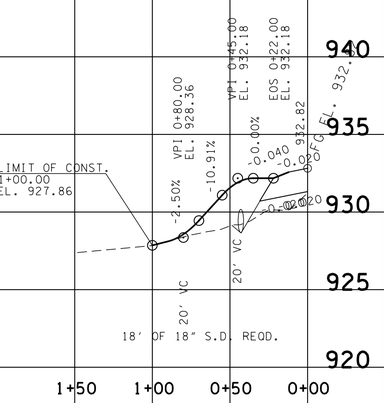
FLD. ENT. LT. 31+19.50
TRACT NO.13



FLD. ENT. RT. 32+81.49
TRACT NO.13



FLD. ENT. LT. 45+12.48
TRACT NO.13



FLD. ENT. LT. 46+05.00
TRACT NO.14

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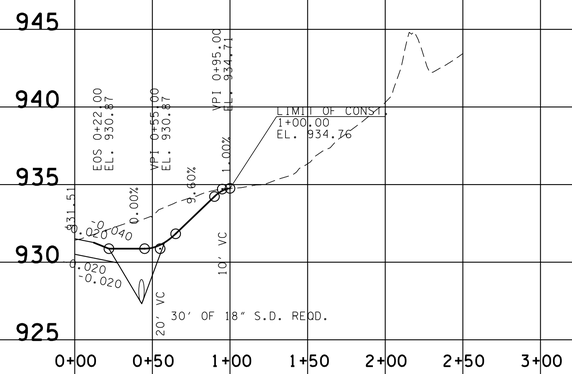
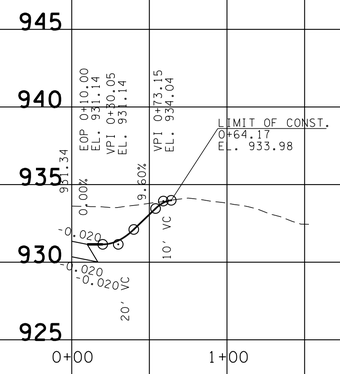
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

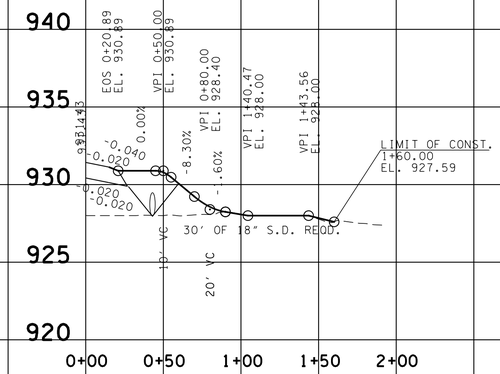
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	14B
CONST.	2015	STP-50(31)	14B



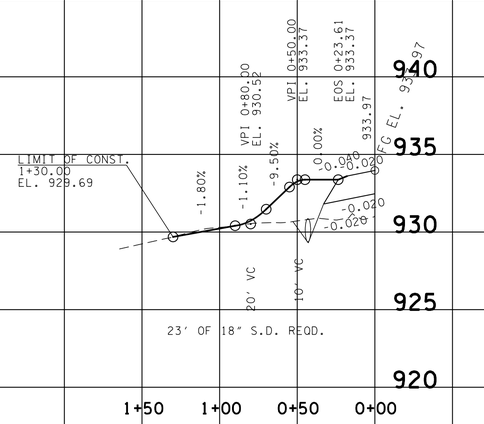
PVT. DR. RT. 46+81.02
TRACT NO.14



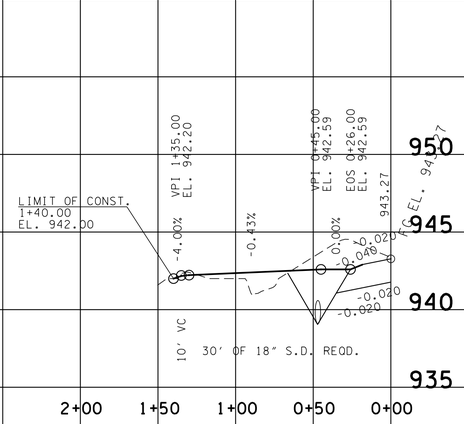
PVT. DR. LT. 0+59.30
(OFF PVT. DR. RT. STA.46+81.02)
TRACT NO.14



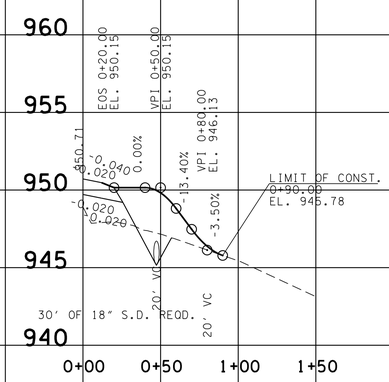
PVT. DR. RT. 51+75.31
TRACT NO.14



FLD. ENT. LT. 53+00.65
TRACT NO.14



PVT. DR. LT. 55+99.98
TRACT NO.16



FLD. ENT. RT. 58+25.96
TRACT NO.17

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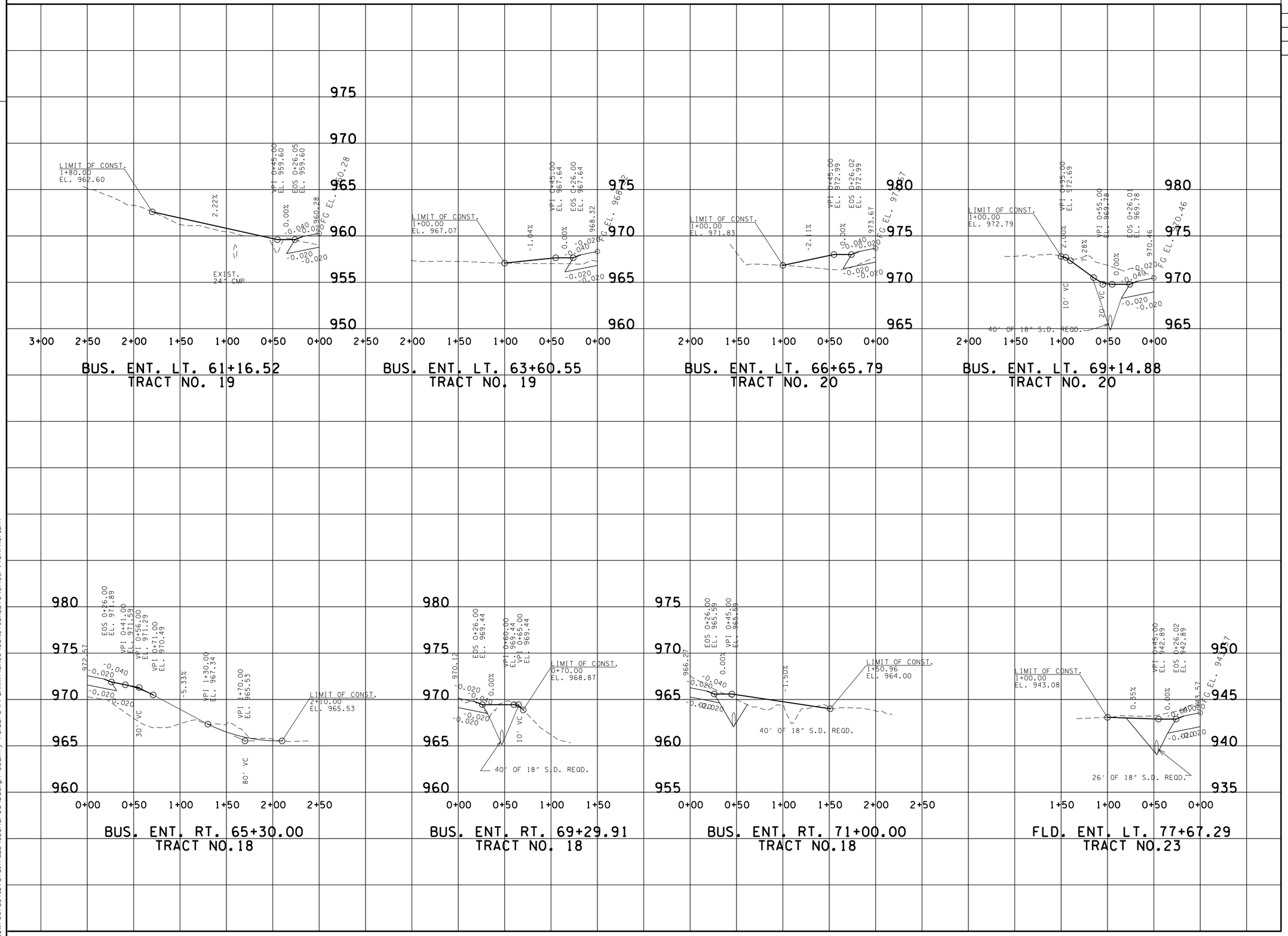
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	14C
CONST.	2015	STP-50(31)	14C



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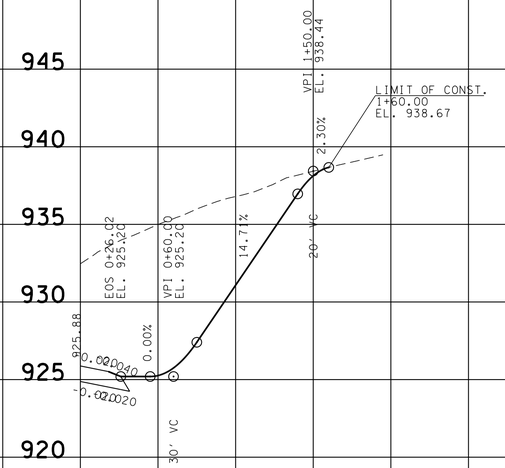
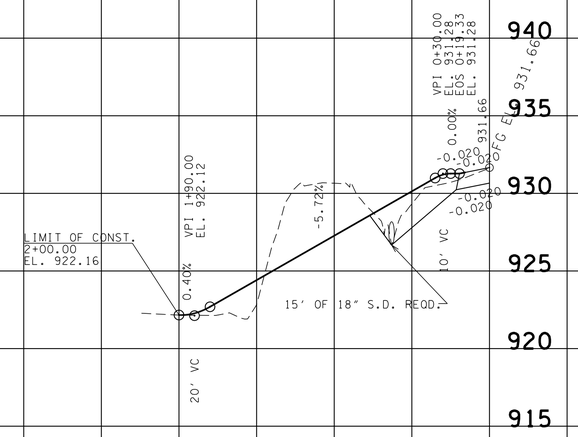
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

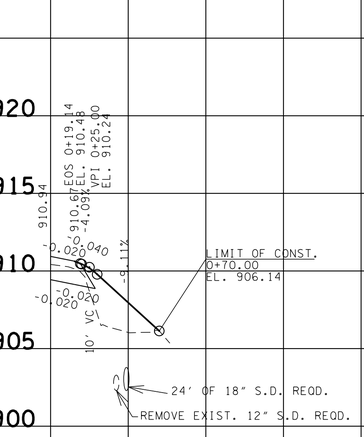
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	14D
CONST.	2015	STP-50(31)	14D



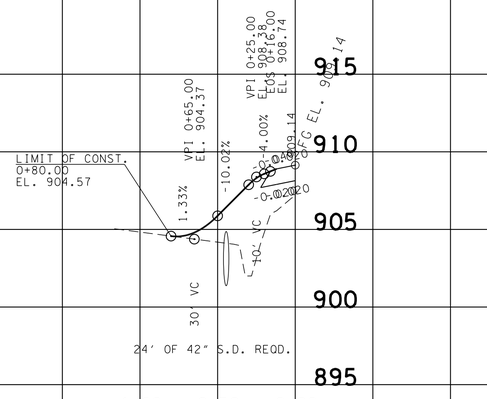
BUS. ENT. RT. 81+14.05
TRACT NO.23



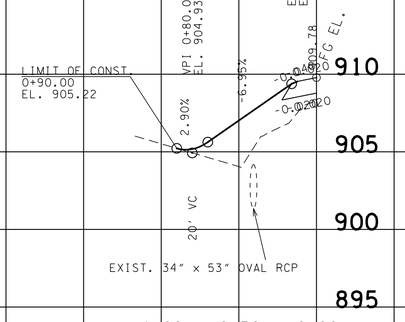
JOYCE LANE
FLD. ENT. LT. 404+19.85
TRACT NO.25



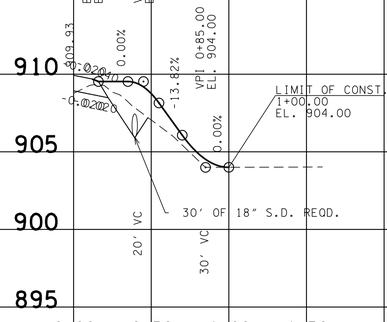
SR-15
FLD. ENT. RT. 700+60.56
TRACT NO.28



SR-16
PVT. DR. LT. 8+00.00
TRACT NO.42



SR-16
BUS. ENT. LT. 5+93.20
TRACT NO.44



SR-16
PVT. DR. RT. 5+45.58
TRACT NO.41

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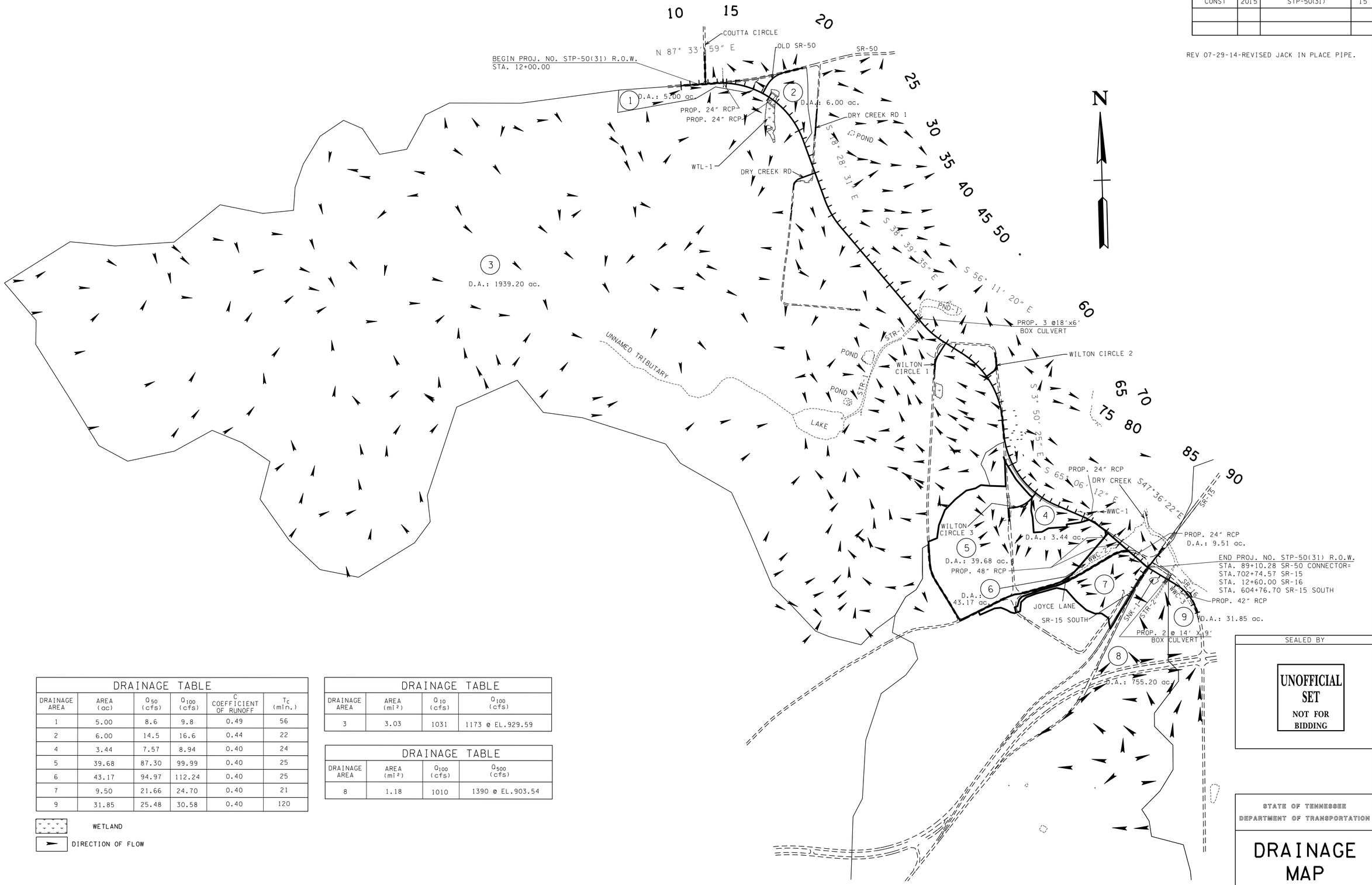
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	15
CONST	2015	STP-50(31)	15

REV 07-29-14-REVISED JACK IN PLACE PIPE.



DRAINAGE TABLE					
DRAINAGE AREA	AREA (ac)	Q_{50} (cfs)	Q_{100} (cfs)	C COEFFICIENT OF RUNOFF	T_c (min.)
1	5.00	8.6	9.8	0.49	56
2	6.00	14.5	16.6	0.44	22
4	3.44	7.57	8.94	0.40	24
5	39.68	87.30	99.99	0.40	25
6	43.17	94.97	112.24	0.40	25
7	9.50	21.66	24.70	0.40	21
9	31.85	25.48	30.58	0.40	120

DRAINAGE TABLE			
DRAINAGE AREA	AREA (mi^2)	Q_{10} (cfs)	Q_{100} (cfs)
3	3.03	1031	1173 @ EL.929.59

DRAINAGE TABLE			
DRAINAGE AREA	AREA (mi^2)	Q_{100} (cfs)	Q_{500} (cfs)
8	1.18	1010	1390 @ EL.903.54

WETLAND

DIRECTION OF FLOW

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.12+00 TO STA.89+10.28

SCALE: 1"=500'

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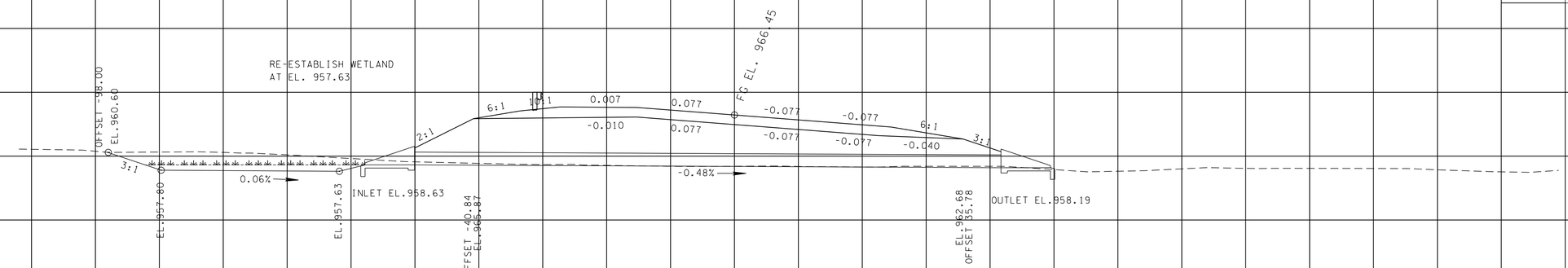
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	16
CONST	2015	STP-50(31)	16

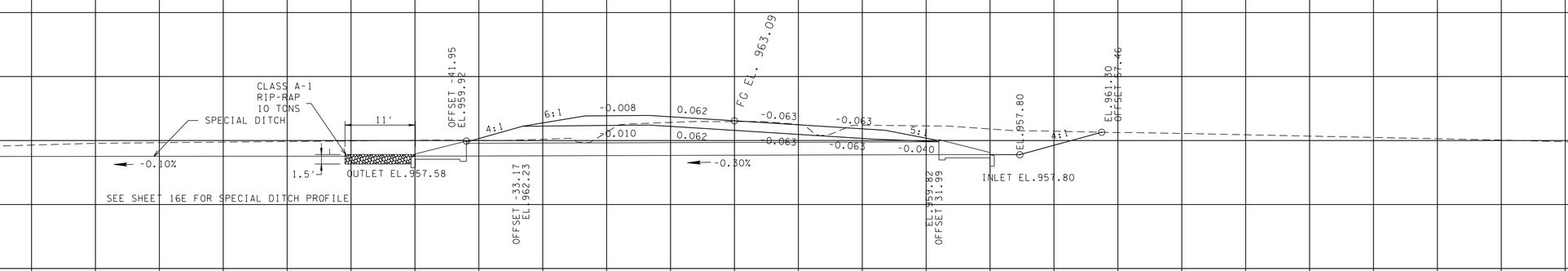
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



STA. 20+50
92' OF 24" PIPE CULVERT
SKEW 90°
ENDWALLS REQD. : TYPE 3B W/O GRATE
STD. DWG. NOS. D-PE-24A,D-PE-24B
D.A. = 6 AC.
Q50 = 14.5 CFS
Q100 = 16.6 CFS
W.S. ELEV. (50) = 960.91
W.S. ELEV. (100) = 961.11

MAINLINE
STA. 20+50.00



STA. 14+65
74' OF 24" CONC PIPE CULV(CLASS IV) JACKED-IN-PLACE
SKEW 85° RT
ENDWALLS REQD. : TYPE 4B W/GRATE(INLET), TYPE 4B W/O GRATE(OUTLET)
STD. DWG. NOS. D-PE-24A,D-PE-24B
D.A. = 5 AC.
Q50 = 8.6 CFS
Q100 = 9.8 CFS
W.S. ELEV. (50) = 959.46
W.S. ELEV. (100) = 959.60

MAINLINE
STA. 14+65.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 14+65.00
TO
STA. 20+50.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

23-OCT-2014 11:43
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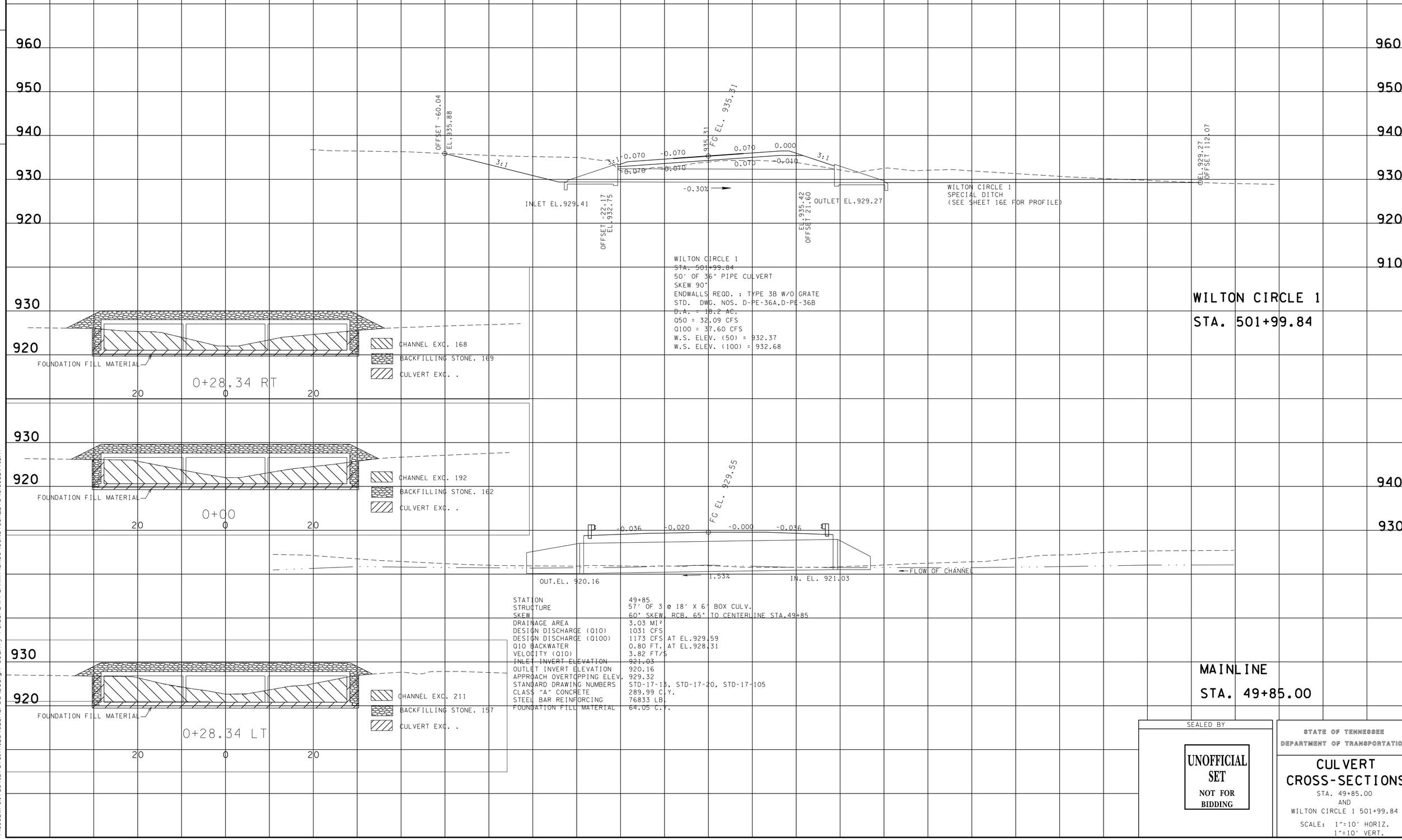
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	16A
CONST	2015	STP-50(31)	16A

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



STATION	49+85
STRUCTURE	57' OF 3 @ 18' X 6' BOX CULV.
SKEW	60° SKEW, RCB. 65° TO CENTERLINE STA.49+85
DRAINAGE AREA	3.03 MI²
DESIGN DISCHARGE (Q10)	1031 CFS
DESIGN DISCHARGE (Q100)	1173 CFS AT EL.929.59
Q10 BACKWATER	0.80 FT. AT EL.928.31
VELOCITY (Q10)	3.82 FT/S
INLET INVERT ELEVATION	921.03
OUTLET INVERT ELEVATION	920.16
APPROACH OVERTOPPING ELEV.	929.32
STANDARD DRAWING NUMBERS	STD-17-13, STD-17-20, STD-17-105
CLASS "A" CONCRETE	289.99 C.Y.
STEEL BAR REINFORCING	76833 LB.
FOUNDATION FILL MATERIAL	64.05 C.Y.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 49+85.00
AND
WILTON CIRCLE 1 501+99.84

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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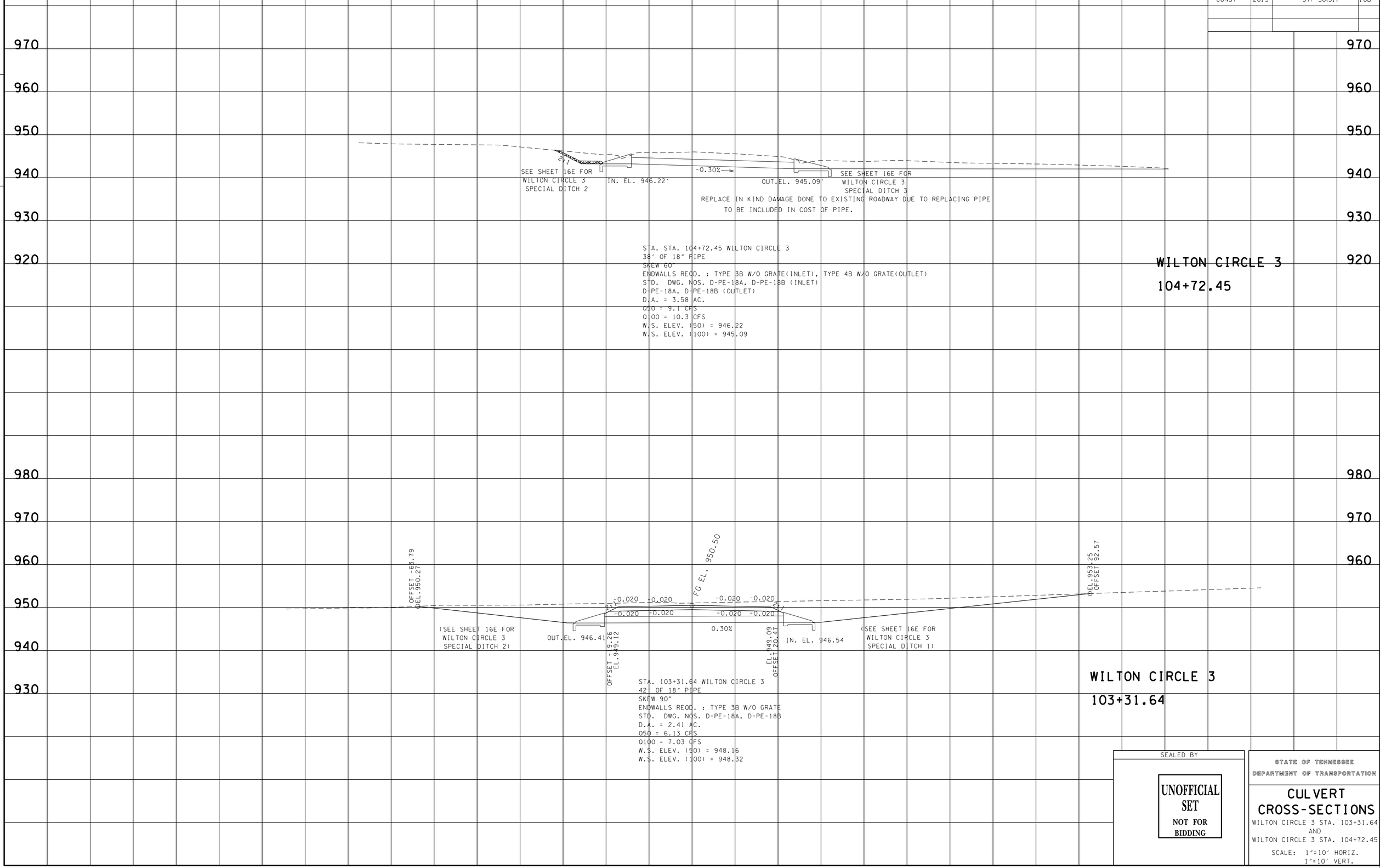
REV 10-17-14: REVISED "36" TO "38" AND NOTE ON WILTON CIRCLE 3 STA.104+72.45 PER CFR.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	16B
CONST	2015	STP-50(31)	16B

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

WILTON CIRCLE 3 STA. 103+31.64
AND
WILTON CIRCLE 3 STA. 104+72.45

SCALE: 1"=10' HORIZ.
1"=10' VERT.

23-OCT-2014 11:43
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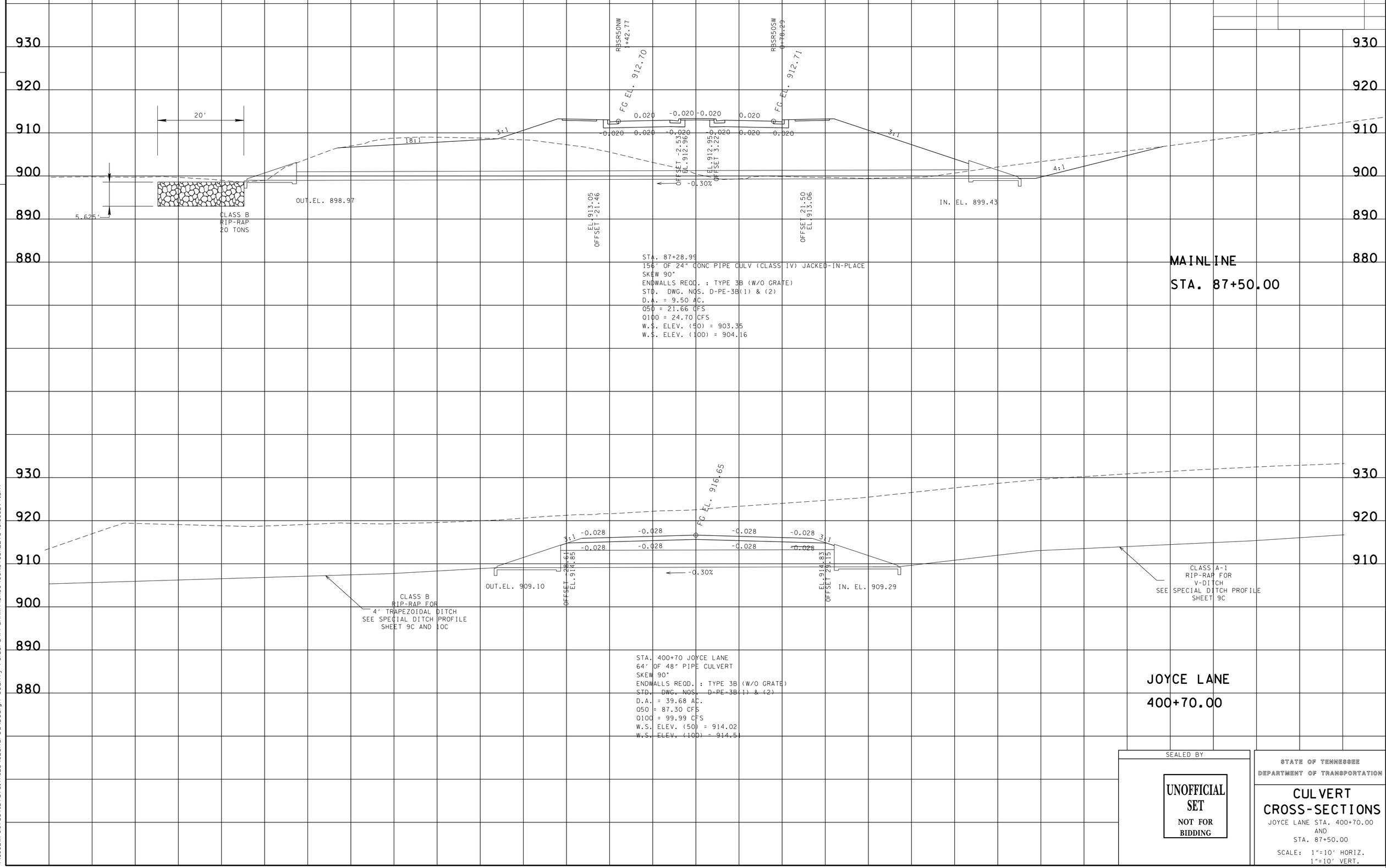
REV 07-29-14-REVISED RIP RAP DIM ON STA 87+50±

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	16C
CONST	2015	STP-50(31)	16C

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

JOYCE LANE STA. 400+70.00
AND
STA. 87+50.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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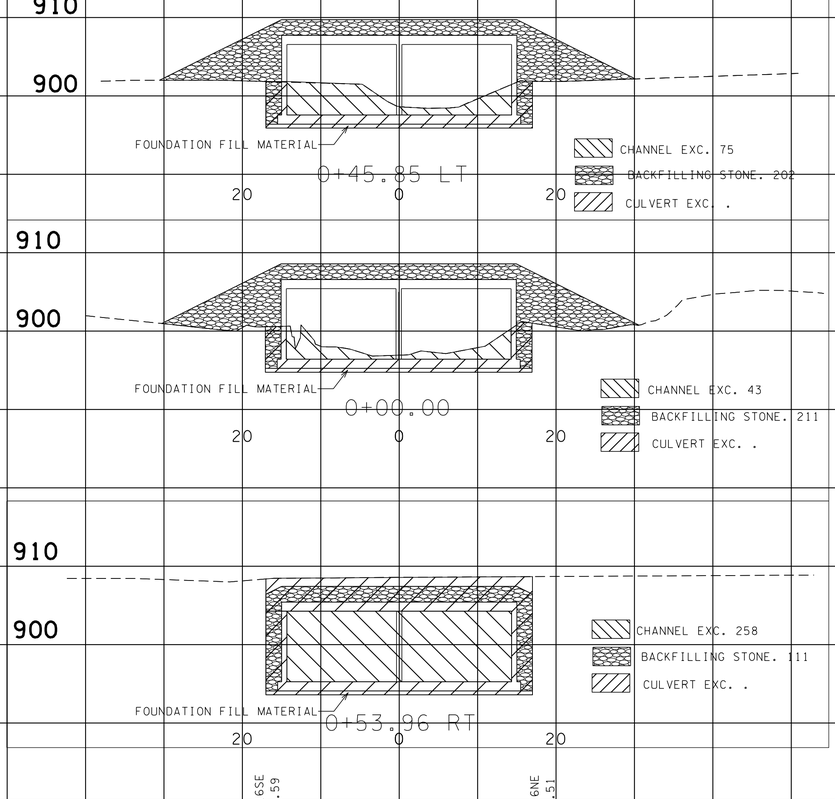
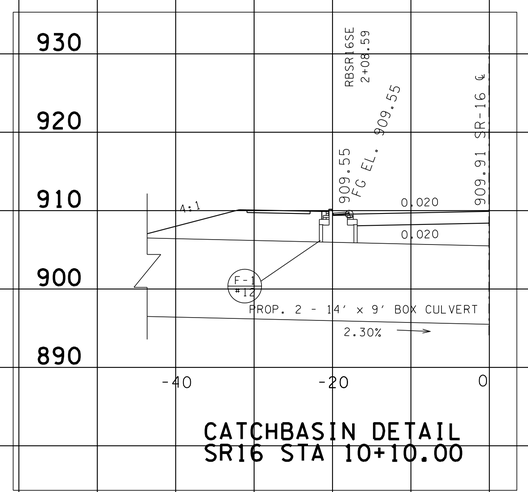
REV 07-29-14-REVISED CATCHBASINS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	16D
CONST	2015	STP-50(31)	16D

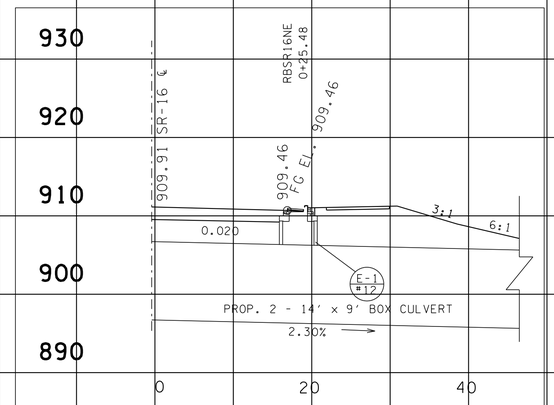
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

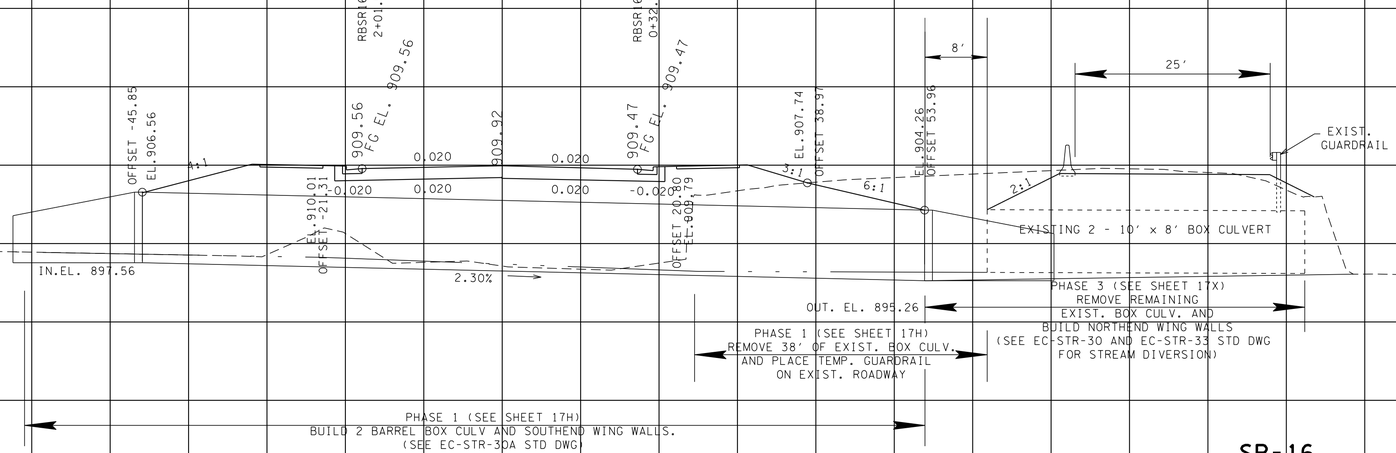




CATCHBASIN DETAIL
SR16 STA 10+10.00



CATCHBASIN DETAIL
SR16 STA 10+09.95



STATION	10+17.00 SR-16
STRUCTURE	100' OF 2-14' x 9' BOX CULV.
SKEW	90° SKEW. RCB
DRAINAGE AREA	1.18 MI²
DESIGN DISCHARGE (Q100)	1010 CFS
DESIGN DISCHARGE (Q500)	1390 CFS AT EL.903.54
Q100 BACKWATER	1.17 FT. AT EL.904.38
VELOCITY (Q100)	8.99 FT/S
INLET INVERT ELEVATION	897.56
OUTLET INVERT ELEVATION	895.26
APPROACH OVERTOPPING EL.	908.53
STANDARD DRAWING NUMBERS	STD-17-11, STD-17-20, STD-17-80
CLASS "A" CONCRETE	432.8 C.Y.
STEEL BAR REINFORCING	19274 LB.
FOUNDATION FILL MATERIAL	63.00 C.Y.

SR-16

STA. 10+17.00

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CULVERT CROSS-SECTIONS

SR-16 STA. 10+17.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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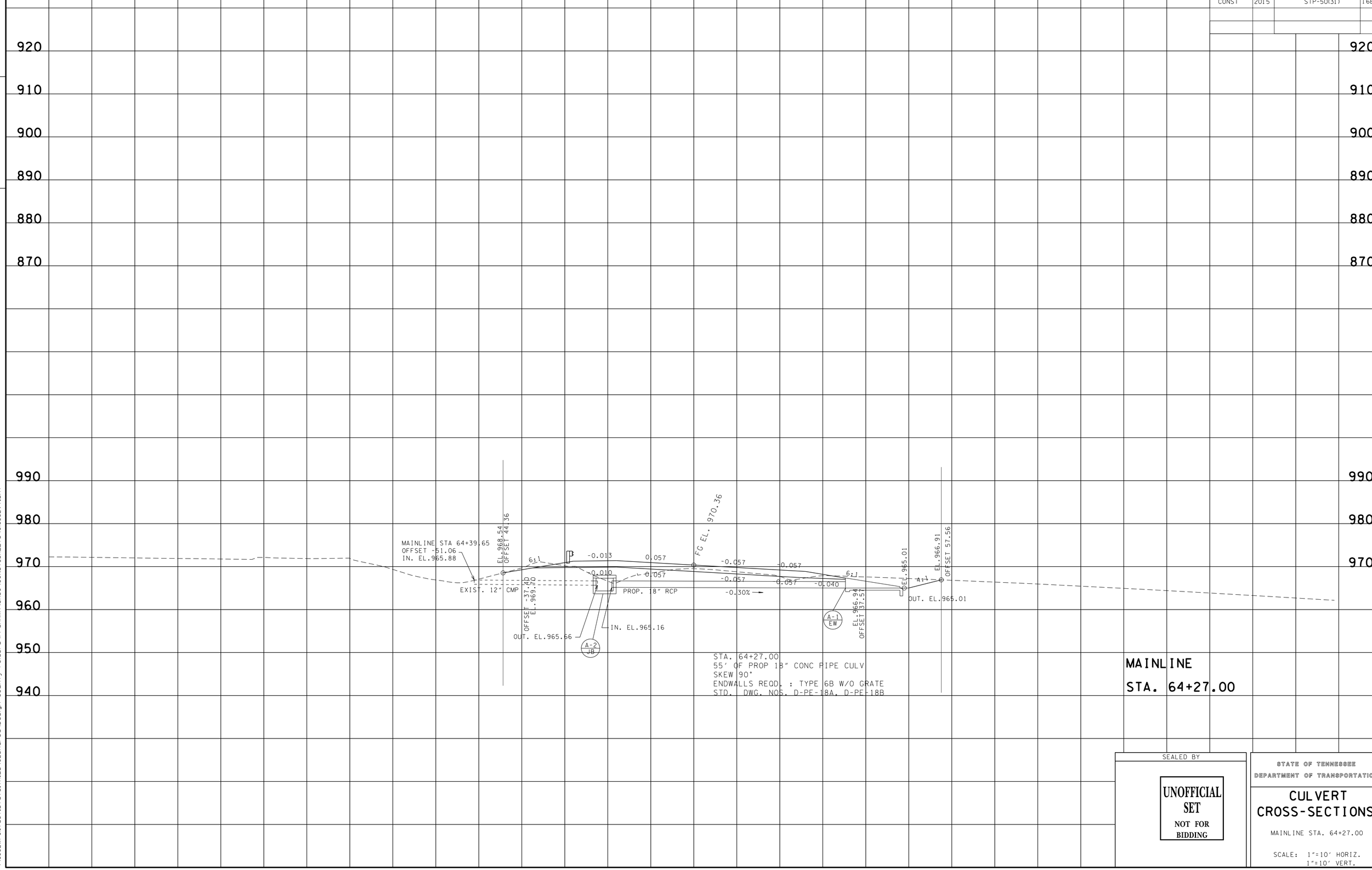
REV 07-29-14-REVISED CATCHBASINS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	16E
CONST	2015	STP-50(31)	16E

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



MAINLINE

STA. 64+27.00

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CULVERT CROSS-SECTIONS

MAINLINE STA. 64+27.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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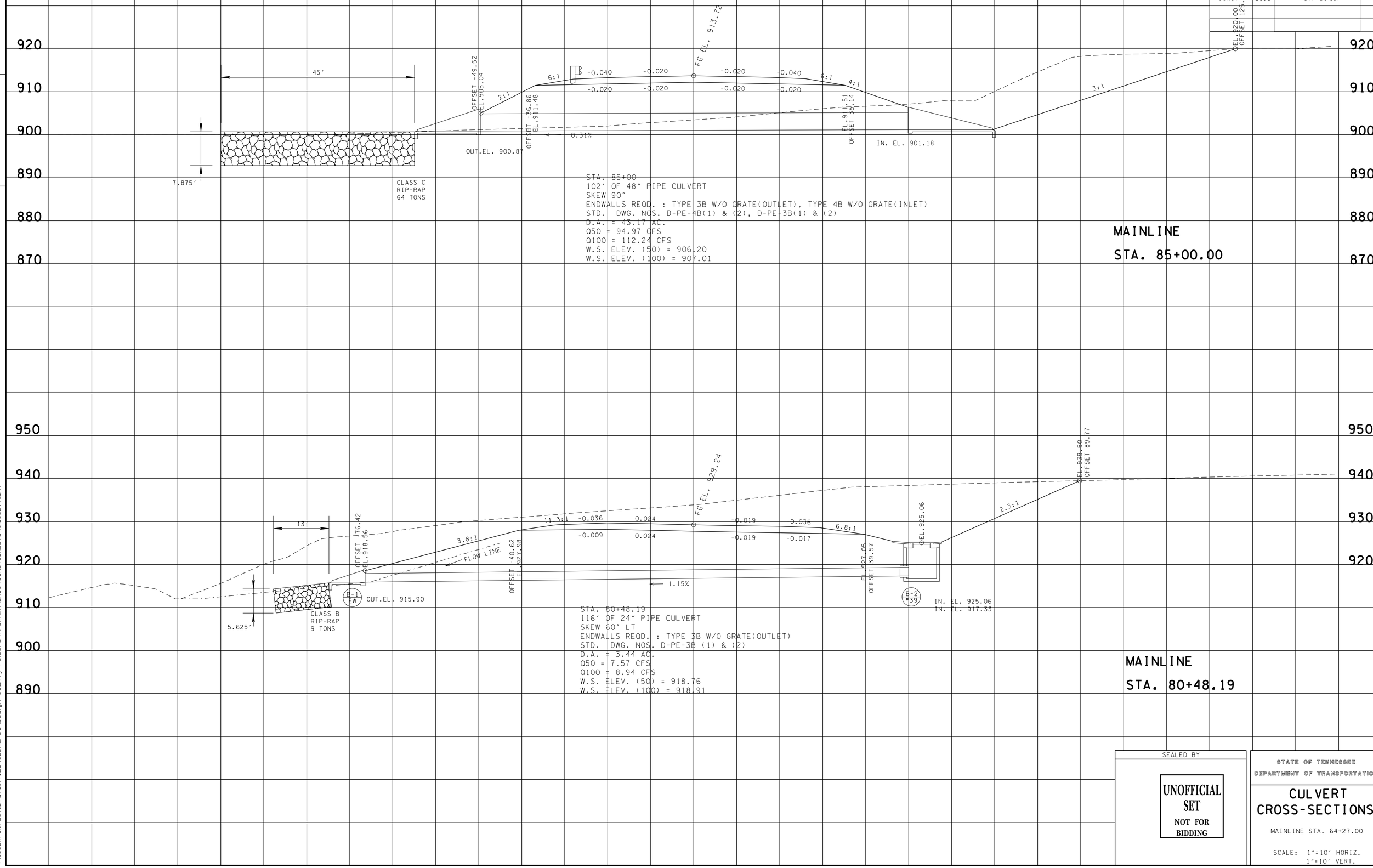
REV 07-29-14-REVISED CATCHBASINS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	16F
CONST	2015	STP-50(31)	16F

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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CULVERT CROSS-SECTIONS

MAINLINE STA. 64+27.00

SCALE: 1"=10' HORIZ.
1"=10' VERT.

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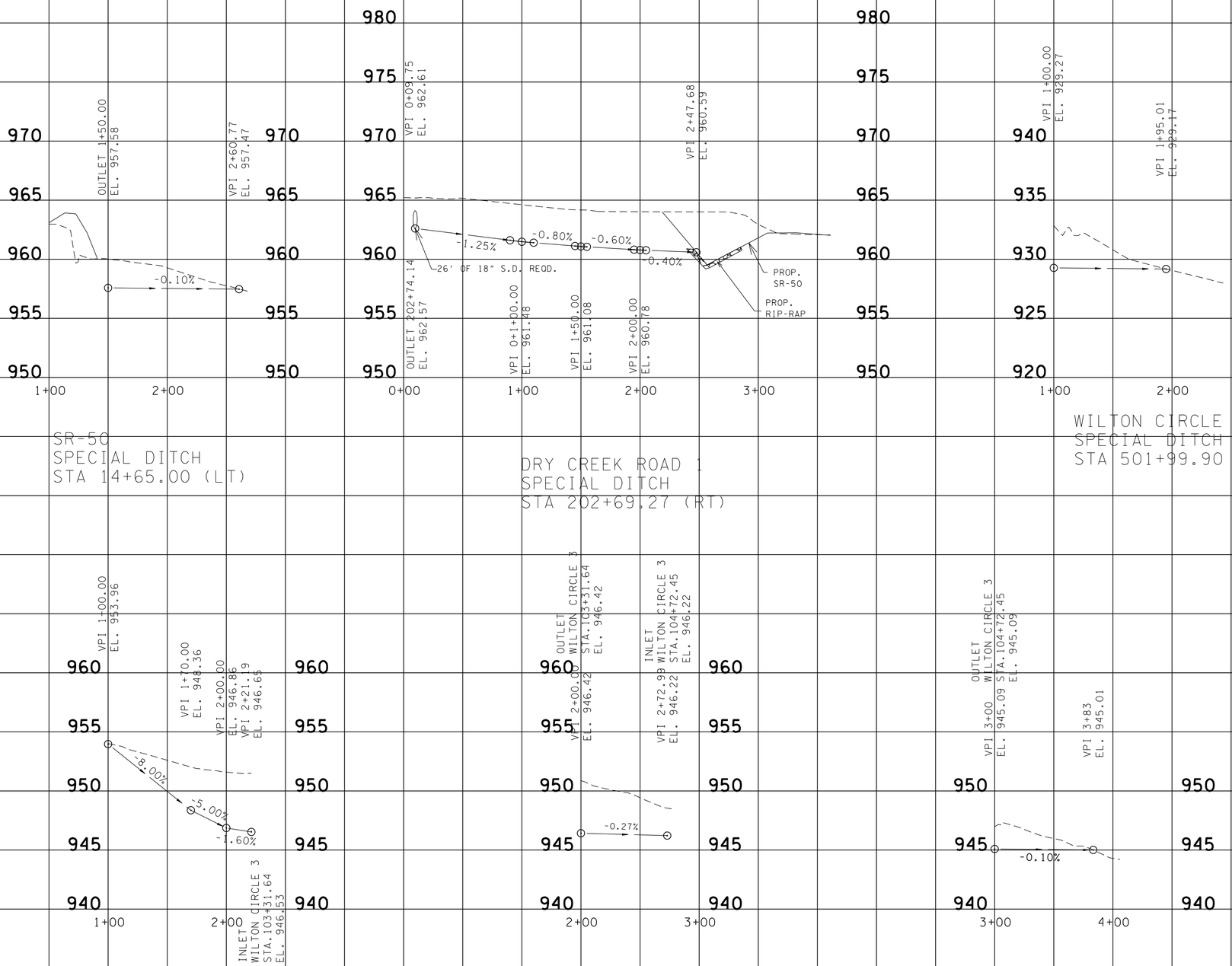
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	16G
CONST	2015	STP-50(31)	16G



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PROFILE OF SPECIAL DITCHES

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

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

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17
CONST	2015	STP-50(31)	17

REV 07-29-14-UPDATED NOTES
REV 10-17-14-UPDATED NOTES

STREAM/WETLAND

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

(2) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

KNOWN EXCEPTIONAL TENNESSEE WATERS

(3) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, AN OUTFALL IN A DRAINAGE AREA OF 5 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT.

(4) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION 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 60 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 30 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

NPDES

(5) 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.

(6) 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.

(7) 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.

(8) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(9) 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.

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

(11) 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

(12) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.

(13) 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

(14) 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).

(15) 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.

(16) 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.

(17) 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.

(18) 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.

(19) 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.

(20) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).

(21) 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.

SPECIAL NOTES (REFERENCED FROM SHEET 2M)

ENVIRONMENTAL

(1) TREES THAT HAVE A DIAMETER BREAST (DBH) >5" SHALL NOT BE CUT FROM MARCH 31 THROUGH OCTOBER 15.

(2) A FISH SWEEP MUST BE CONDUCTED BEFORE ANY WORK WITHIN A STREAM BEGINS.

(3) THE CONTRACTOR WILL CONTACT THE REGIONAL BIOLOGIST TWO WEEKS BEFORE ANY IN STREAM WORK BEGINS.

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

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FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17A
CONST	2015	STP-50(31)	17A

REVISED 07-29-14- UPDATED SHEET.
REV 10-17-14- UPDATED SHEET.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SFB	SEDIMENT FILTER BAG	EC-STR-2
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
TCB	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY SLOPE DRAIN	EC-STR-27
	RIPRAP	EC-STR-27
	TEMPORARY BERM	EC-STR-27
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	TEMPORARY DIVERSION CULVERT (DESCRIBE NUMBER AND SIZE OF PIPES)	EC-STR-32
	SAND BAG BERM	EC-STR-33
	EROSION CONTROL BLANKET	EC-STR-34
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
2	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QTY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	1032
209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	208
209-05	SEDIMENT REMOVAL	C.Y.	350
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	25939
209-08.07	ROCK CHECK DAM PER	EACH	196
209-08.08	ENHANCED ROCK CHECK DAM	EACH	70
209-09.01	SANDBAGS	BAG	934
209-09.03	SEDIMENT FILTER BAG(15' X 15')	EACH	7
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	4
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	102
209-40.32	CATCH BASIN PROTECTION (TYPE D)	EACH	1
209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	1
209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	4
209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	74
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	106.2
621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	104
621-03.06	42" TEMPORARY DRAINAGE PIPE	L.F.	302
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1387
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	907
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	380
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	2307
740-11.03	TEMPORARY SEDIMENT TUBE 18IN (DESCRIPTION)	L.F.	49286
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	2765
801-03	WATER (SEEDING & SODDING)	UNIT	277
805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	1253

FOOTNOTE

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

EROSION PREVENTION SEDIMENT CONTROL QUANTITIES

LOCATION	PAY ITEMS																						
	203-01 (C.Y.) RD DRAIN EXEC.	209-02.07 (L.F.) 18" TEMP SLOPE DRAIN	209-05 (C.Y.) SEDIMENT REMOVAL	209-08.02 (L.F.) TEMP SFB	209-08.07 (EACH) RCD	209-08.08 (EACH) ERCD	*209-09.01 (BAGS) SANDBAGS	209-09.03 (EACH) 15' x 15' SFB	209-09.43 (EACH) TYPE 4 CURB INLET	*209-20.03 (S.Y.) POLY SHEET	209-40.32 (EACH) TYPE C CB PROTECT	209-40.42 (EACH) TYPE 2 CB FILTER	209-40.46 (EACH) TYPE 6 CB FILTER	209-65.04 (L.F.) IN-STREAM DIVERSION	303-10.01 (TON) 57 STONE	621-03.03 (L.F.) 24" TEMP DRAIN CULV	*621-03.06 (L.F.) 42" TEMP DRAIN CULV	707-08.11 (L.F.) HVF	709-05.05 (TON) CLASS A-3 RIP RAP	709-05.06 (TON) CLASS A-1 RIP RAP	740-10.03 (S.Y.) TYPE 3 GEO FAB	740-11.03 (L.F.) 18" SED TUBE	805-12.02 (S.Y.) EC BLANKET TYPE 2
STAGE ONE	217	130	135	10343	20	24	934	4		102					55.4	104	302	1387	680.4	118.5	1444	17393	620
STAGE TWO	789	78	188	8967	176	28	934	2		102		1	4	74	46.6		302		226.8	238.9	785	14186	633
STAGE THREE	27		27	6629		18		1	4		1				4.2					22.7	79	17707	
TOTALS	1032	208	350	25939	196	70	934	7	4	102	1	1	4	74	106.2	104	302	1387	907.2	380.1	2307	49286	1253

*QTY IN STAGE ONE TO BE USED IN STAGE ONE AND TWO.

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

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FILE NO.

SPECIAL NOTES

TOPSOIL IS TO BE REMOVED FROM ALL AREAS OF TEMPORARY WETLAND IMPACTS AND STOCK PILED PRIOR TO CONSTRUCTION.

UPON COMPLETION OF CONSTRUCTION ACTIVITIES, TEMPORARY HAUL ROADS ARE TO BE REMOVED. EXCAVATED MATERIAL FROM THE HAUL ROADS IS TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLANDS WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO SHEET 17ZC FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

EPSC MEASURES FROM PREVIOUS PHASES ARE TO BE LEFT IN PLACE UNTIL NO LONGER NECESSARY.

ESTABLISH WTL-1 NOTES

1. PLACE HV-FENCE LOCATING BOTH WTL-1 AND ESTABLISH WTL-1.
2. REMOVE PERMANENT IMPACT WTL-1 AREA TO ESTABLISH WTL-1 AREA.
3. PLACE PROP. 24" PIPE.

STAGE NOTES

1. PLACE EPSC MEASURES.
2. REPLACE EXIST. PIPE AT STA 14+65 WITH PROP. 24" RCP(CLASS IV) JACKED IN PLACE IN ONE DAY.
2. ESTABLISH WTL-1.
3. CLEAR AND GRUB, PLACE PROP. PIPES, AND BUILD PROP. DITCHES.

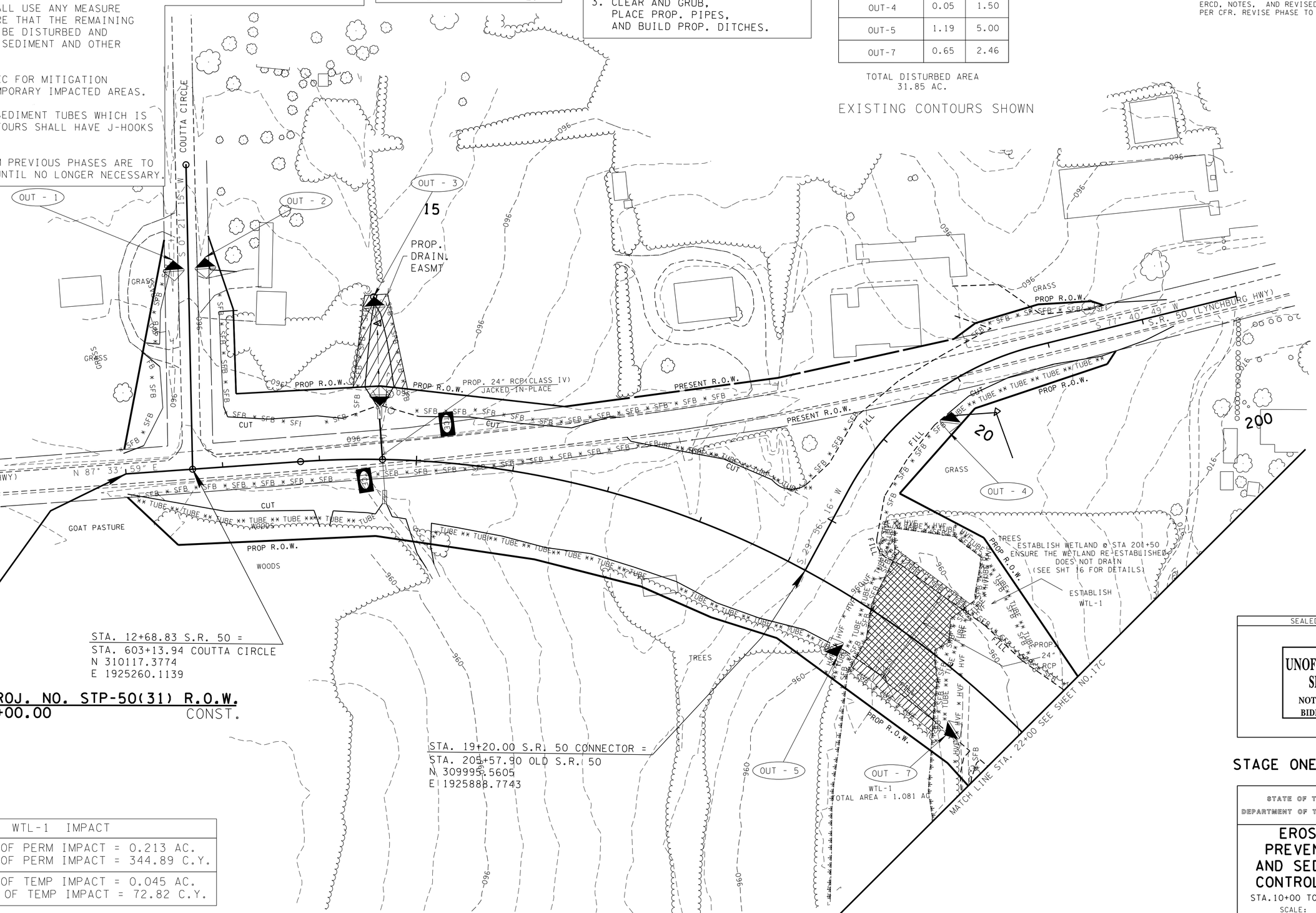
OUTFALL	AREA (AC.)	SLOPE (%)
OUT-1	0.20	3.63
OUT-2	0.20	1.63
OUT-3	5.00	1.90
OUT-4	0.05	1.50
OUT-5	1.19	5.00
OUT-7	0.65	2.46

TOTAL DISTURBED AREA
31.85 AC.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17B
CONST	2015	STP-50(31)	17B

REV 07-29-14-REVISED EPSC PLANS.
REV 10-17-14-ADDED OUTFALLS, SLOPE, ERCD, NOTES, AND REVISED REF SHT PER CFR. REVISE PHASE TO STAGE.

EXISTING CONTOURS SHOWN



STA. 12+68.83 S.R. 50 =
STA. 603+13.94 COUTTA CIRCLE
N 310117.3774
E 1925260.1139

BEGIN PROJ. NO. STP-50(31) R.O.W.
STA. 12+00.00 CONST.

STA. 19+20.00 S.R. 50 CONNECTOR =
STA. 205+57.90 OLD S.R. 50
N 309995.5605
E 1925888.7743

LEGEND	WTL-1 IMPACT
	AREA OF PERM IMPACT = 0.213 AC. VOLUME OF PERM IMPACT = 344.89 C.Y.
	AREA OF TEMP IMPACT = 0.045 AC. VOLUME OF TEMP IMPACT = 72.82 C.Y.

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STAGE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.10+00 TO STA.22+00
SCALE: 1"=50'

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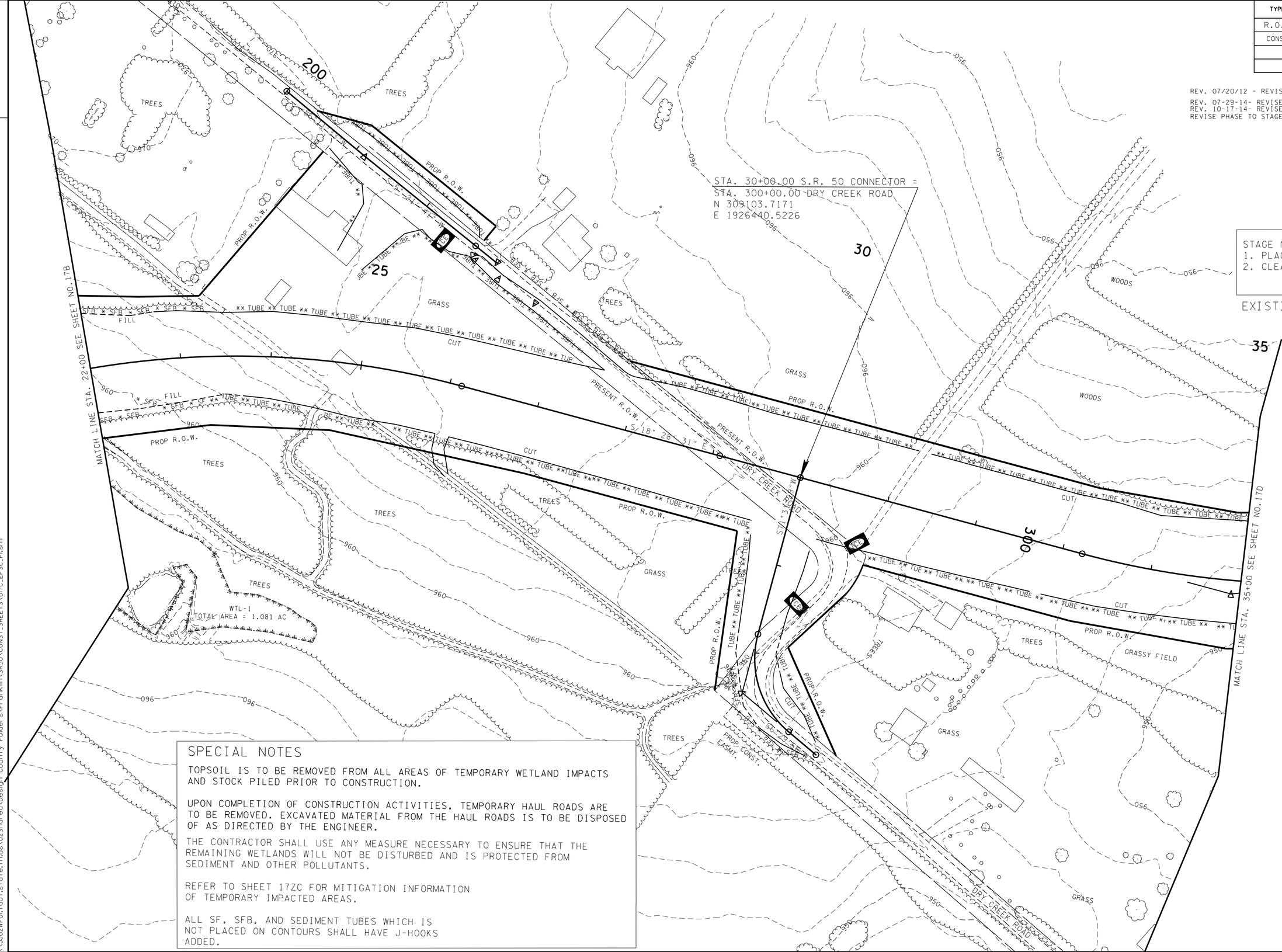
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17C
CONST	2015	STP-50(31)	17C

REV. 07/20/12 - REVISED PROP. R.OW. AT STA. 26+00 LT.

REV. 07-29-14- REVISED EPSC PLANS.
REV. 10-17-14- REVISED NOTES PER CFR.
REVISE PHASE TO STAGE.



STAGE NOTES:
1. PLACE EPSC MEASURES.
2. CLEAR AND GRUB.

EXISTING CONTOURS SHOWN

SPECIAL NOTES

TOPSOIL IS TO BE REMOVED FROM ALL AREAS OF TEMPORARY WETLAND IMPACTS AND STOCK PILED PRIOR TO CONSTRUCTION.

UPON COMPLETION OF CONSTRUCTION ACTIVITIES, TEMPORARY HAUL ROADS ARE TO BE REMOVED. EXCAVATED MATERIAL FROM THE HAUL ROADS IS TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLANDS WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO SHEET 17ZC FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

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STAGE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.22+00 TO STA.35+00

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	STP-50(31)	17D
CONST	2015	STP-50(31)	17D

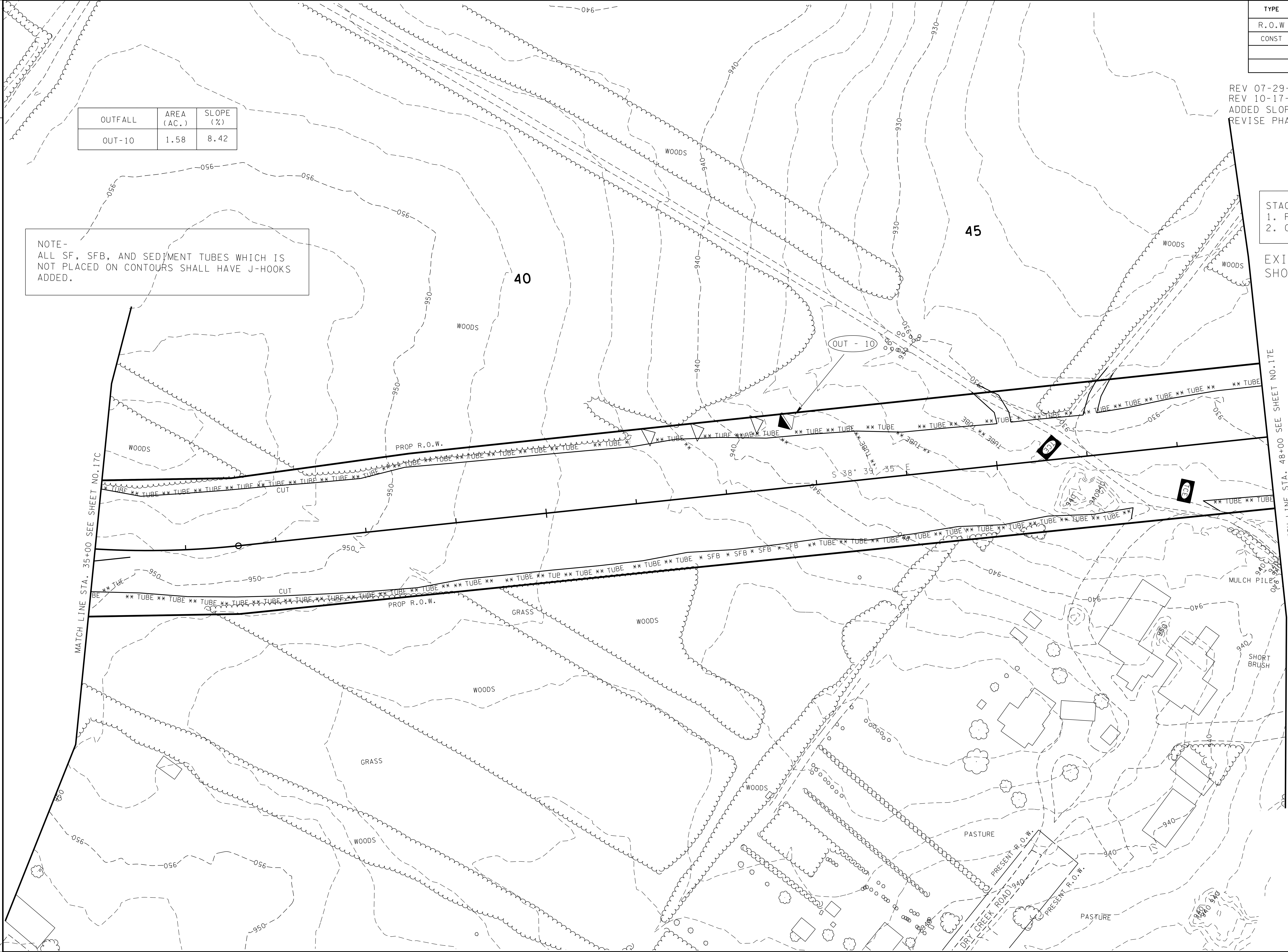
REV 07-29-14-REVISED EPSC PLANS.
REV 10-17-14-REVISED EPSC PLANS, ADDED SLOPE, AND NOTE PER CFR.
REVISE PHASE TO STAGE.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-10	1.58	8.42

NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

STAGE NOTES:
1. PLACE EPSC MEASURES.
2. CLEAR AND GRUB.

EXISTING CONTOURS SHOWN



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NOT FOR BIDDING

STAGE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.35+00 TO STA.48+00

SCALE: 1"=50'

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

SPECIAL NOTES

ANY WORK WITHIN THE WETLAND/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 WETLAND/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 THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-1 AND PND-1 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

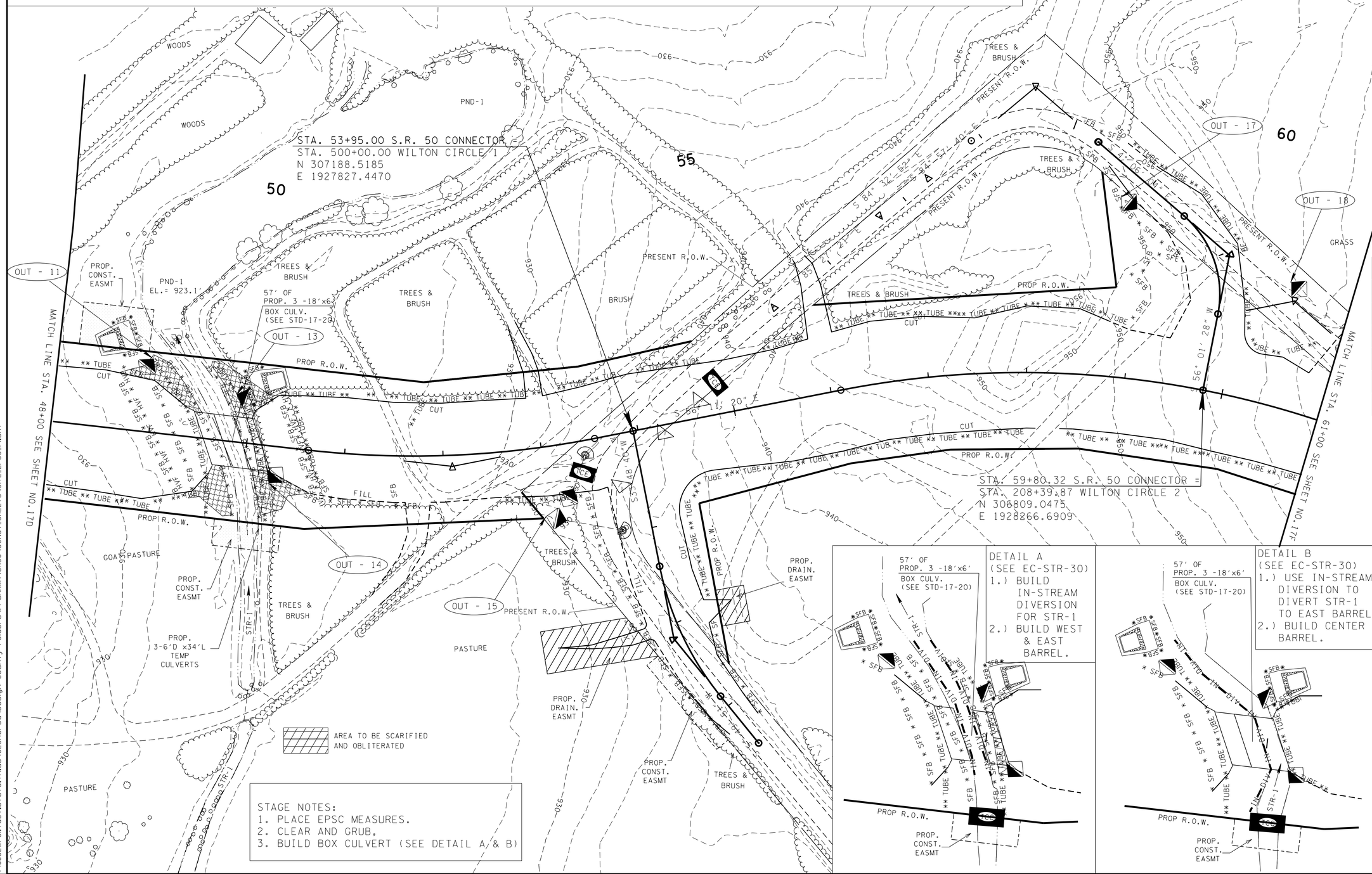
REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17E
CONST	2015	STP-50(31)	17E

REV 07-29-14-REVISED EPSC PLANS.

REV 10-17-14-ADDED NOTE, SEDIMENT FILTER BAG, AND ADDED SLOPE PER CFR. REVISE PHASE TO STAGE.



STAGE NOTES:
1. PLACE EPSC MEASURES.
2. CLEAR AND GRUB,
3. BUILD BOX CULVERT (SEE DETAIL A & B)

EXISTING CONTOURS SHOWN

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-11	1.00	2.46
OUT-13	0.63	0.95
OUT-14	0.44	8.69
OUT-15	2.01	4.00
OUT-17	0.63	3.63
OUT-18	1.30	2.17

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STAGE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.48+00 TO STA.61+00

SCALE: 1"=50'

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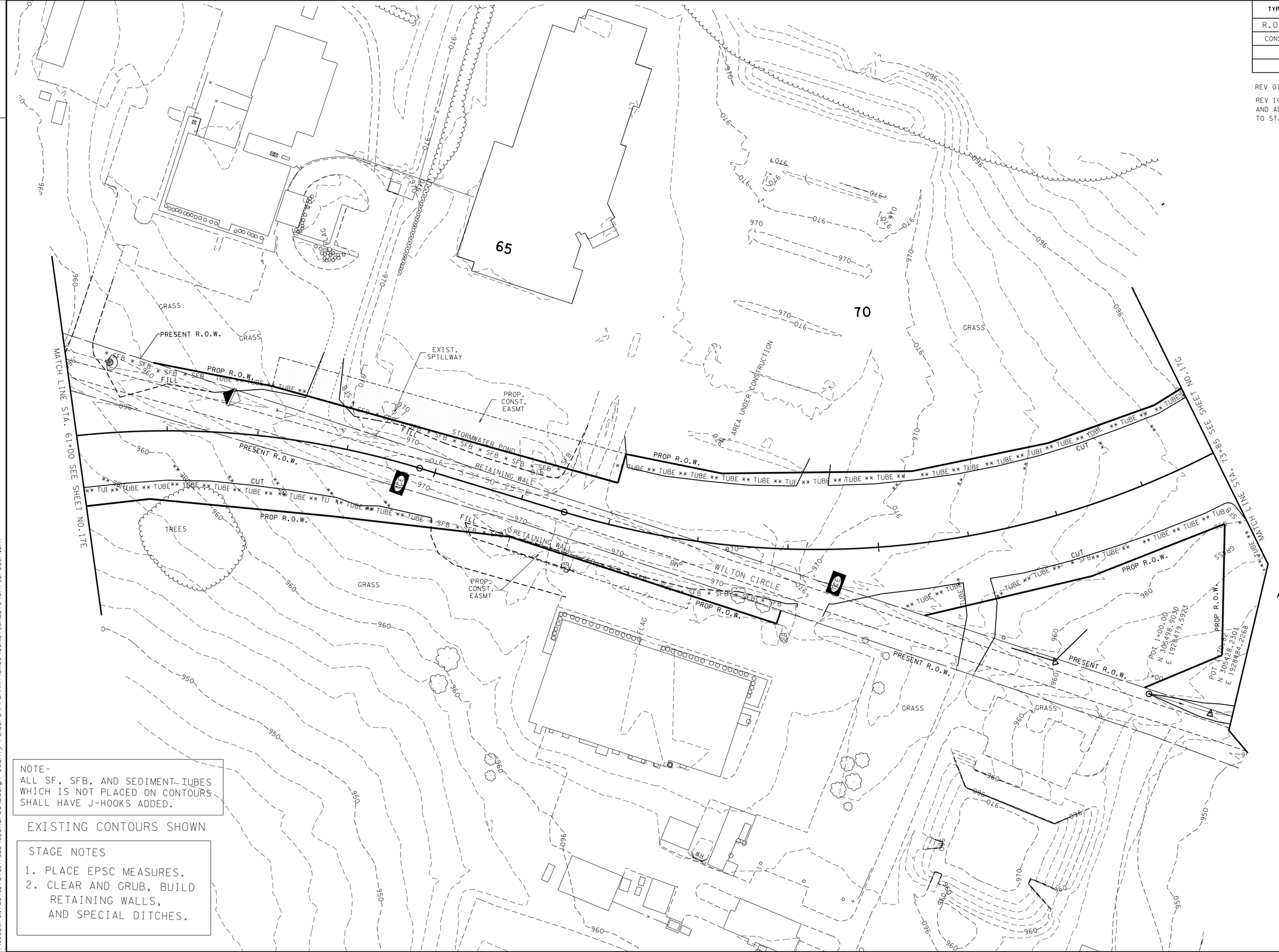
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17F
CONST	2015	STP-50(31)	17F

REV 07-29-14-REVISED EPSC PLANS.

REV 10-17-14-REVISED SEDIMENT TUBES AND ADDED NOTE PER CFR. REVISE PHASE TO STAGE.



NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

EXISTING CONTOURS SHOWN

STAGE NOTES

1. PLACE EPSC MEASURES.
2. CLEAR AND GRUB, BUILD RETAINING WALLS, AND SPECIAL DITCHES.

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STAGE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.61+00 TO STA.73+85

SCALE: 1"=50'

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

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-19	7.42	3.74
OUT-20	2.50	6.00

NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

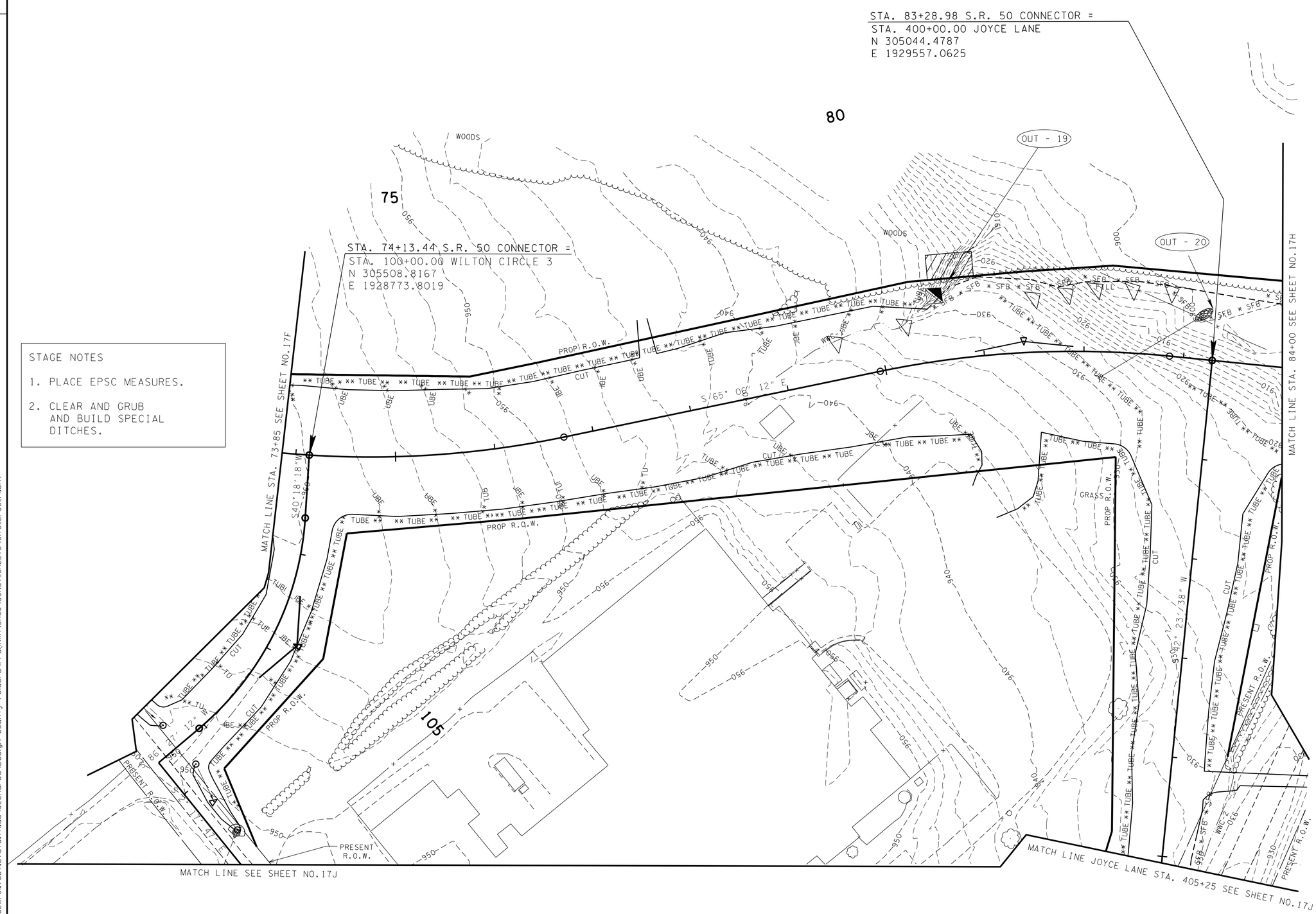
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17G
CONST	2015	STP-50(31)	17G

REV 07-29-14-REVISED EPSC PLANS.

REV 10-17-14-REVISED SEDIMENT TUBES AND ADDED NOTE AND SLOPES PER CFR. REVISE PHASE TO STAGE.

STAGE NOTES

1. PLACE EPSC MEASURES.
2. CLEAR AND GRUB AND BUILD SPECIAL DITCHES.



EXISTING CONTOURS SHOWN

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.73+85 TO STA.84+00

SCALE: 1"=50'

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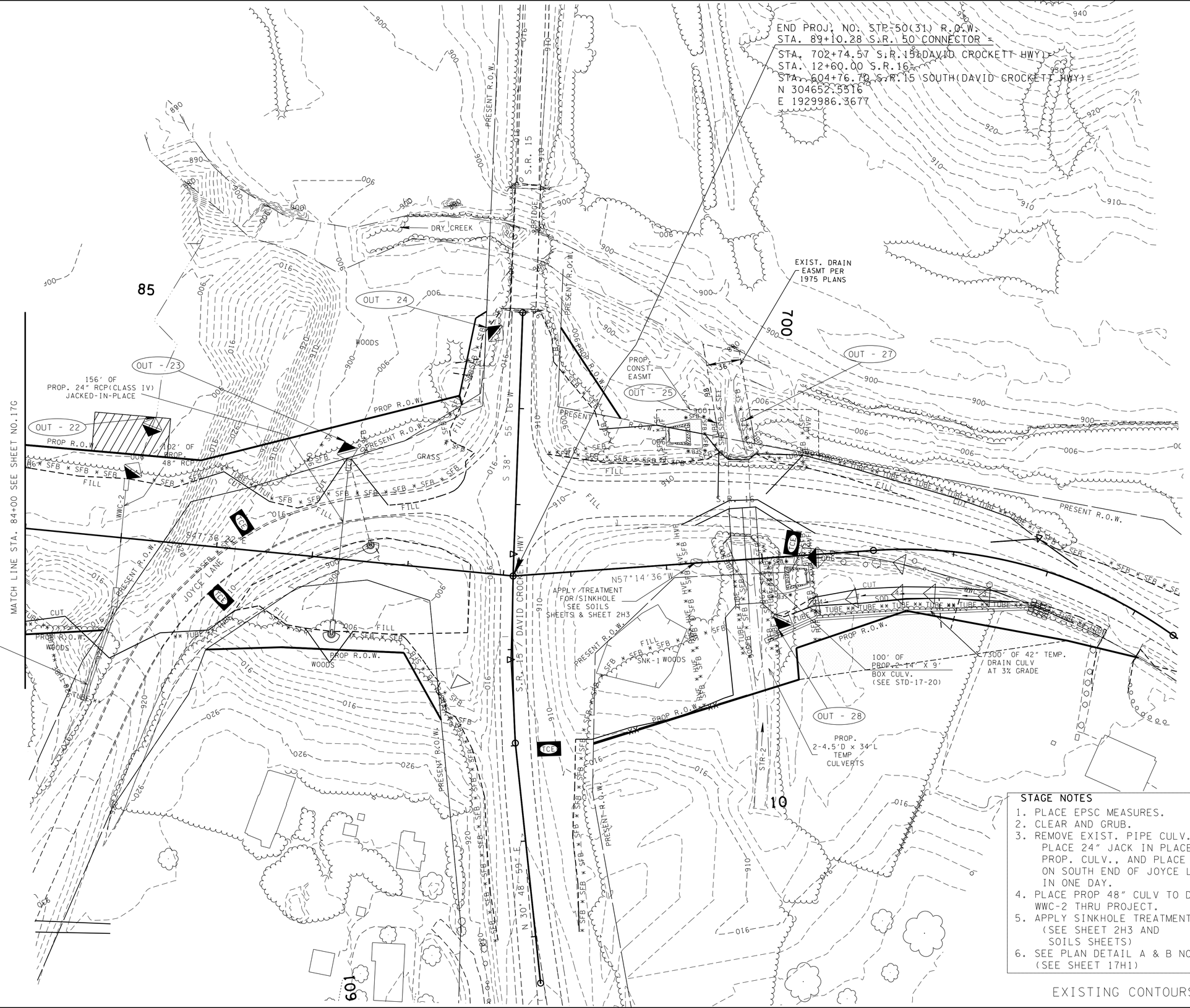
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17H
CONST	2015	STP-50(31)	17H

REV 07-29-14-REVISED EPSC PLANS.

REV 10-17-14-UPDATED EPSC PLANS PER CFR. REVISE PHASE TO STAGE.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT-22	6.88	3.44
OUT-23	9.50	3.40
OUT-24	0.02	25.00
OUT-25	0.20	8.00
OUT-27	0.06	13.00
OUT-28	0.25	2.20

STAGE NOTES

1. PLACE EPSC MEASURES.
2. CLEAR AND GRUB.
3. REMOVE EXIST. PIPE CULV., PLACE 24" JACK IN PLACE PROP. CULV., AND PLACE FILL ON SOUTH END OF JOYCE LANE IN ONE DAY.
4. PLACE PROP 48" CULV TO DIVERT WWC-2 THRU PROJECT.
5. APPLY SINKHOLE TREATMENT (SEE SHEET 2H3 AND SOILS SHEETS)
6. SEE PLAN DETAIL A & B NOTES (SEE SHEET 17H1)

EXISTING CONTOURS SHOWN

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.84+00 TO STA.91+10

SCALE: 1"=50'

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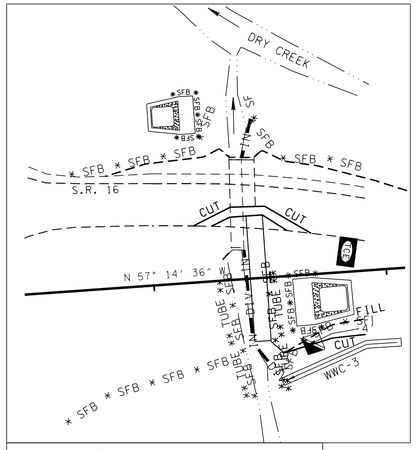
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2014	STP-50(31)	17H1
CONST	2015	STP-50(31)	17H1

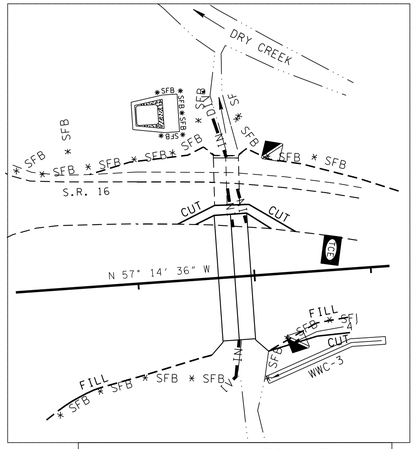
REV 07-29-14-ADDED SHEET.

REV 10-17-14-ADDED SEDIMENT FILTER BAG PER CFR.REVISE PHASE TO STAGE.



PLAN DETAIL A (SEE SHT 16D)

PLAN DETAIL A (SEE SHT 16D)
1. PLACE EPSC MEASURES.
2. PLACE TEMP. DRAIN PIPE AND SANDBAGS FOR WWC-3.
2. DIVERT WWC-3 INTO TEMP DRAIN PIPE.
2. CONSTRUCT ROAD ON NORTH END & 4'-TRAPEZOIDAL DITCH ON SOUTH END AND PLACE EPSC MEASURES FOR STABILIZATION OF DITCH.
3. DETOUR TRAFFIC.
4. USE STD. DWG EC-STR-30A FOR IN-STREAM DIVERSION INTO EXISTING WEST BARREL CULVERT.
5. REMOVE 38' OF EXISTING EAST BARREL CULVERT.
6. BUILD PROPOSED EAST BARREL CULVERT.



PLAN DETAIL B (SEE SHT 16D)

PLAN DETAIL B (SEE SHT 16D)
1. PLACE EPSC MEASURES.
2. USE STD. DWG EC-STR-30A FOR IN-STREAM DIVERSION INTO PROPOSED EAST BARREL AND EXISTING EAST BARREL CULVERT.
3. REMOVE 38' OF EXISTING WEST BARREL CULVERT.
4. BUILD PROPOSED WEST BARREL CULVERT.

SPECIAL NOTES

ANY WORK WITHIN THE WETLAND/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 WETLAND/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 THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-2 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.

FILL SHOULD BE PLACED ON SOUTH END OF JOYCE LANE WITH PROPOSED SLOPE LINE FOR WATER TO DRAIN INTO INLET END OF PROP 24" RCP(CLASS IV) AFTER PIPE HAS BEEN PLACED.

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STAGE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.84+00 TO STA.91+10

SCALE: 1"=50'

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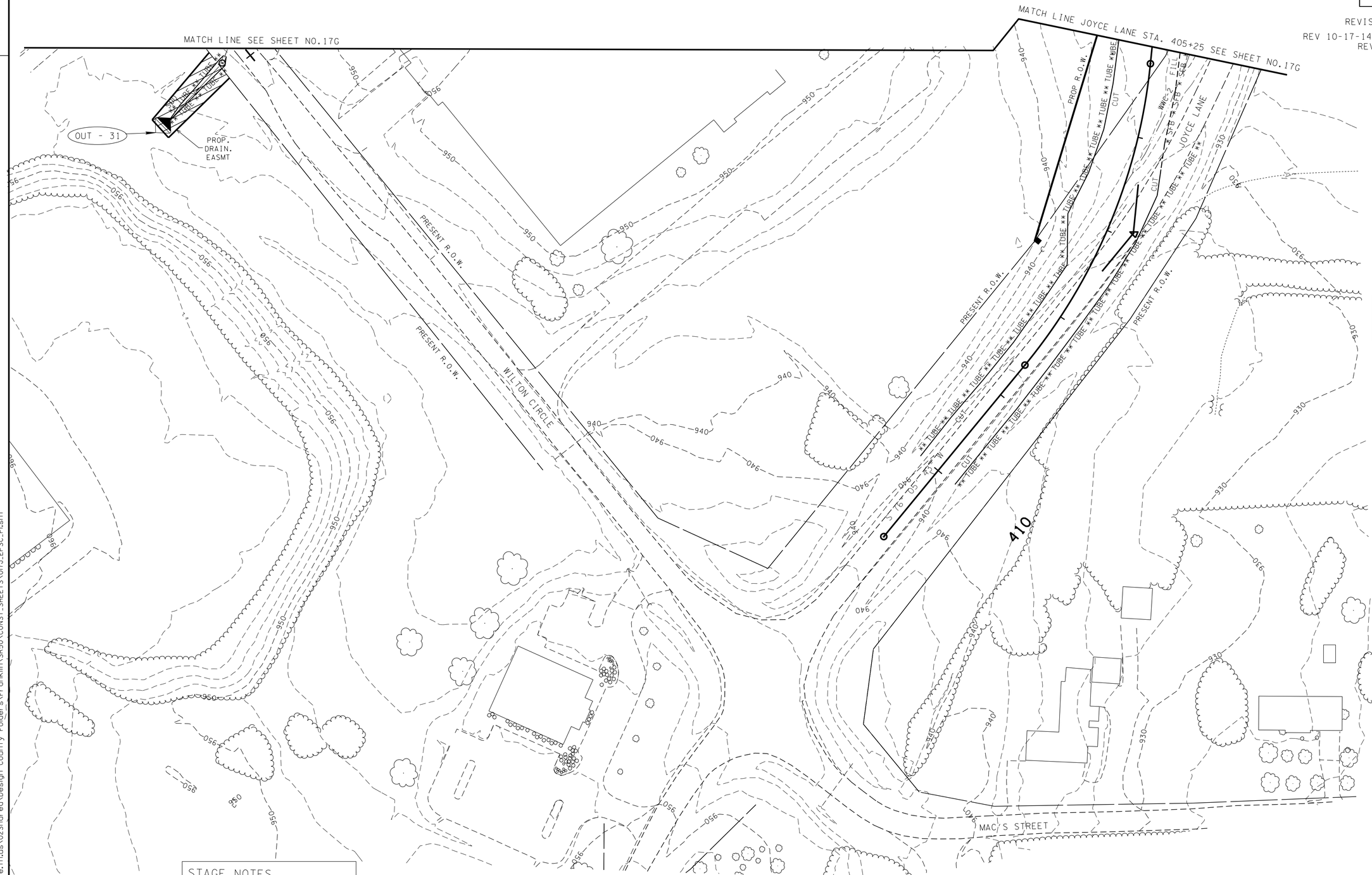
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17I
CONST	2015	STP-50(31)	17J

REVISED 07-29-14- REVISED EPSC PLANS.
REV 10-17-14: REVISED EPSC PLANS PER CFR.
REVISE PHASE TO STAGE.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT-31	3.58	3.08

STAGE NOTES
1. PLACE EPSC MEASURES.
2. PLACE TEMP CULV CROSSING FOR WWC-2.
3. CLEAR AND GRUB, BUILD SPECIAL DITCH, AND PLACE PROP. PIPE.

EXISTING CONTOURS SHOWN

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

JOYCE LANE
STA.405+25 TO STA.413+52
SCALE: 1"=50'

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

SPECIAL NOTES

REFER TO SHEET 17ZC FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLAND WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

EPSC MEASURES FROM PREVIOUS PHASES ARE TO BE LEFT IN PLACE UNTIL NO LONGER NECESSARY.

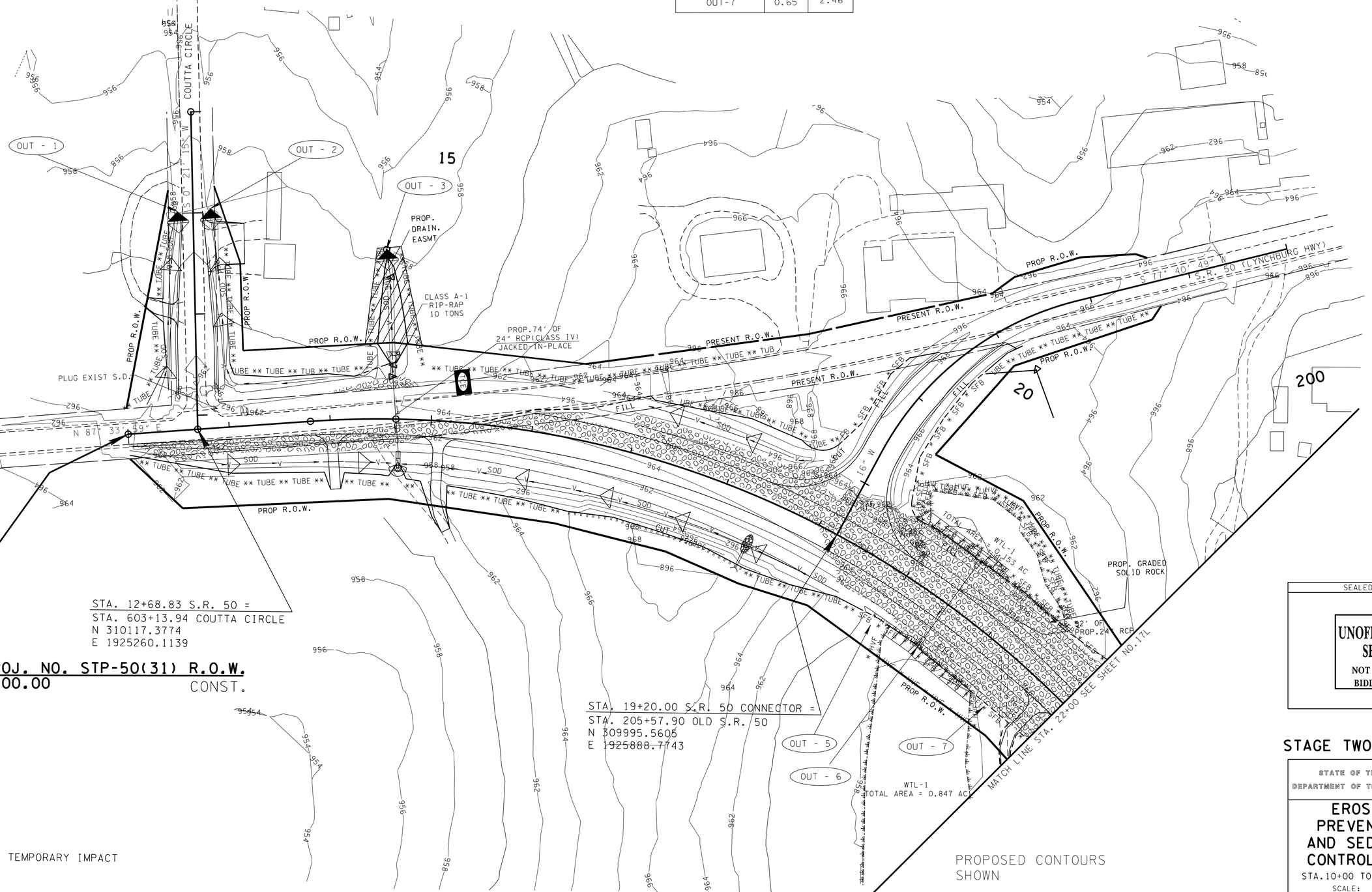
OUTFALL	AREA (AC.)	SLOPE (%)
OUT-1	0.20	3.63
OUT-2	0.20	1.63
OUT-3	5.00	1.90
OUT-5	1.19	5.00
OUT-6	6.00	3.33
OUT-7	0.65	2.46

STAGE NOTES

1. PLACE EPSC MEASURES.
2. PLACE EPSC MEASURES TO STABILIZE DITCHES.
3. BUILD ROAD AND DITCHES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17J
CONST	2015	STP-50(31)	17K

REV 07-29-14-REVISED EPSC PLANS.
REV 08-20-14-ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 10-17-14-REVISED EPSC PLANS PER CFR. REVISE PHASE TO STAGE.



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.10+00 TO STA.22+00

SCALE: 1"=50'

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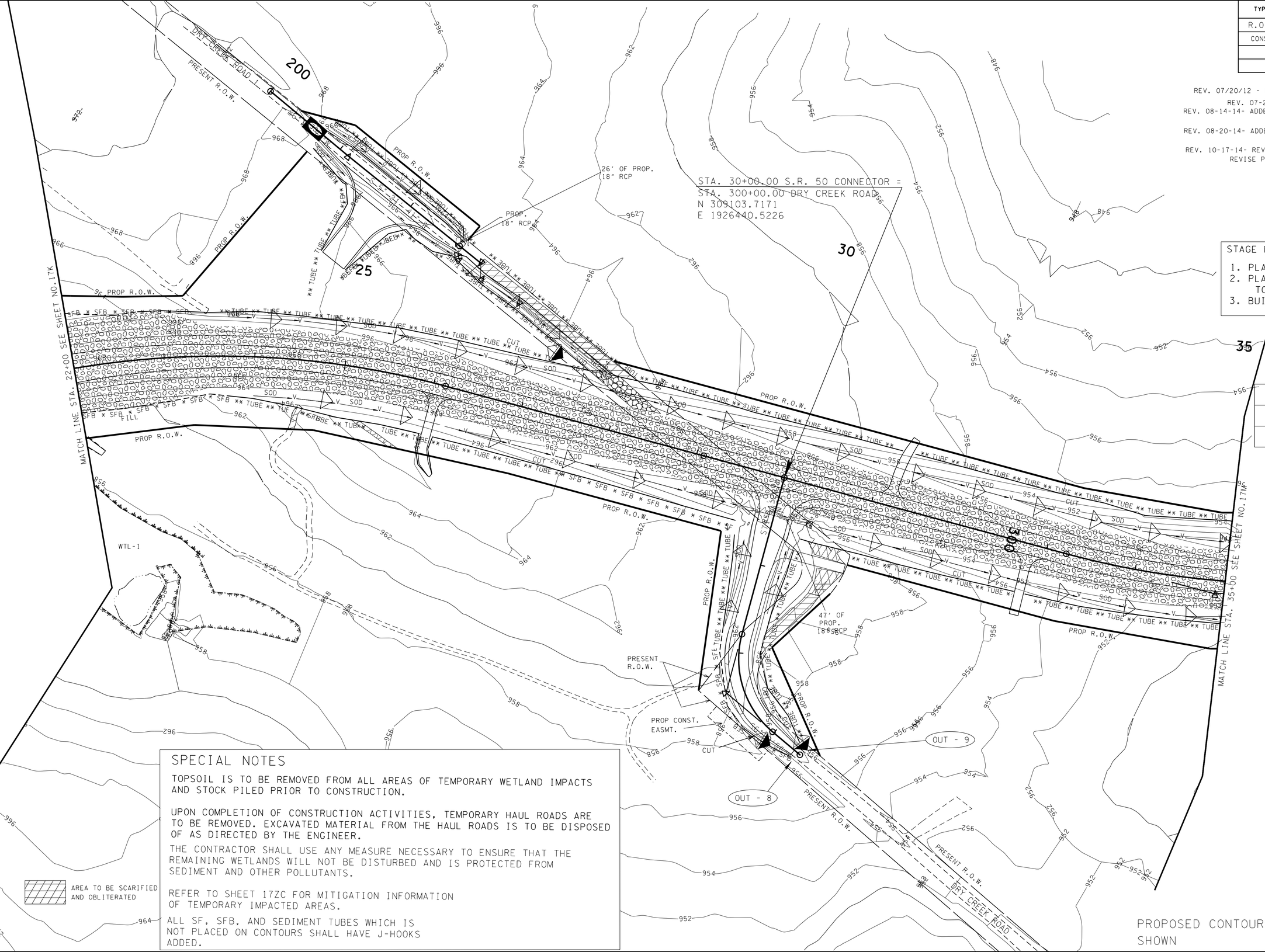
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17K
CONST	2015	STP-50(31)	17L

REV. 07/20/12 - REVISED PROP. ROW AT STA. 26+00 LT
REV. 07-29-14- REVISED EPSC PLANS.
REV. 08-14-14- ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV. 08-20-14- ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV. 10-17-14- REVISED EPSC NOTES PER CFR.
REVISE PHASE TO STAGE.



STAGE NOTES

1. PLACE EPSC MEASURES.
2. PLACE EPSC MEASURES TO STABILIZE DITCHES.
3. BUILD ROAD AND DITCHES.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-8	0.05	2.00
OUT-9	0.15	2.00

SPECIAL NOTES

TOPSOIL IS TO BE REMOVED TO ALL AREAS OF TEMPORARY WETLAND IMPACTS AND STOCK PILED PRIOR TO CONSTRUCTION.

UPON COMPLETION OF CONSTRUCTION ACTIVITIES, TEMPORARY HAUL ROADS ARE TO BE REMOVED. EXCAVATED MATERIAL FROM THE HAUL ROADS IS TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLANDS WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO SHEET 17ZC FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.22+00 TO STA.35+00

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	STP-50(31)	17L
CONST	2015	STP-50(31)	17M

REV 07-29-14-REVISED EPSC PLANS.

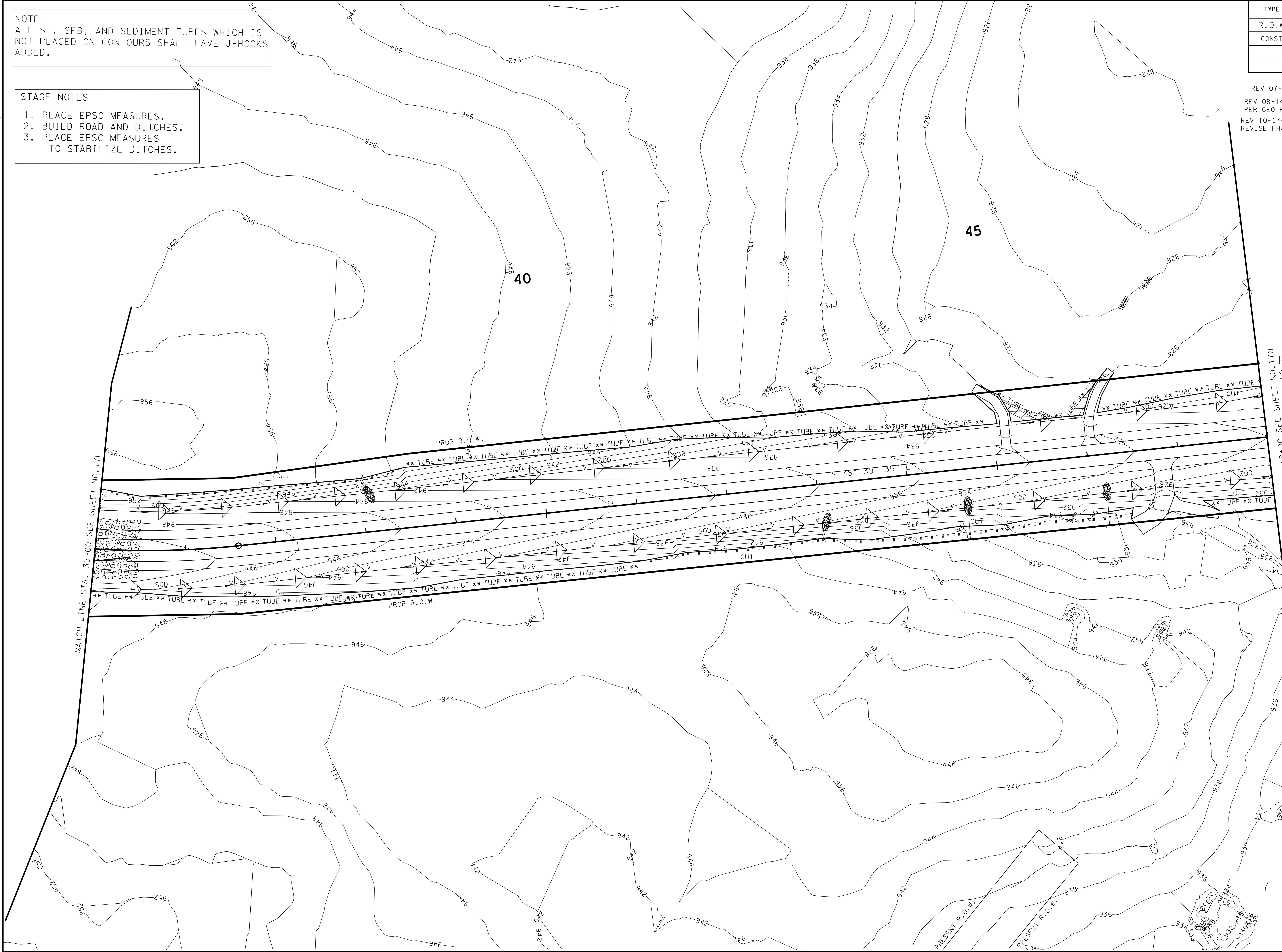
REV 08-14-14-ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 10-17-14-ADDED NOTE PER CFR.
REVISE PHASE TO STAGE.

NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

STAGE NOTES

1. PLACE EPSC MEASURES.
2. BUILD ROAD AND DITCHES.
3. PLACE EPSC MEASURES TO STABILIZE DITCHES.



AREA TO BE SCARIFIED AND OBLITERATED

PROPOSED CONTOURS SHOWN

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.35+00 TO STA.48+00

SCALE: 1"=50'

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

SPECIAL NOTES

ANY WORK WITHIN THE WETLAND/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 WETLAND/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 THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-1 AND PND-1 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

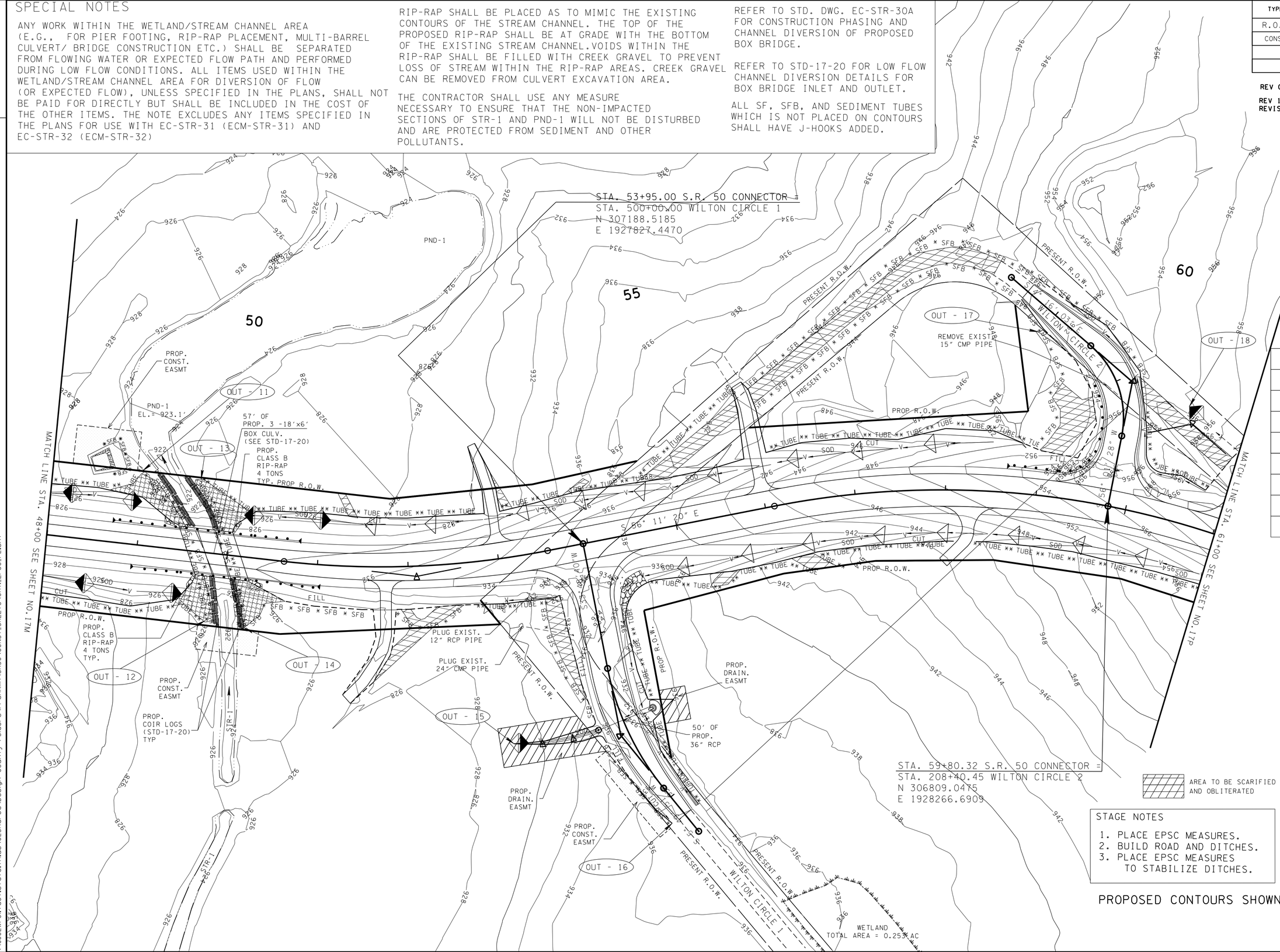
REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17M
CONST	2015	STP-50(31)	17N

REV 07-29-14-REVISED EPSC PLANS.

REV 10-17-14-REVISED EPSC PLANS PER CFR REVISE PHASE TO STAGE.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT-11	1.00	2.46
OUT-12	3.60	9.00
OUT-13	0.63	0.95
OUT-14	0.44	8.69
OUT-15	2.01	4.00
OUT-16	0.05	3.33
OUT-17	0.14	3.63
OUT-18	1.30	2.17

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE NOTES

1. PLACE EPSC MEASURES.
2. BUILD ROAD AND DITCHES.
3. PLACE EPSC MEASURES TO STABILIZE DITCHES.

PROPOSED CONTOURS SHOWN

STAGE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.48+00 TO STA.61+00

SCALE: 1"=50'

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TENNESSEE D.O.T.
DESIGN DIVISION

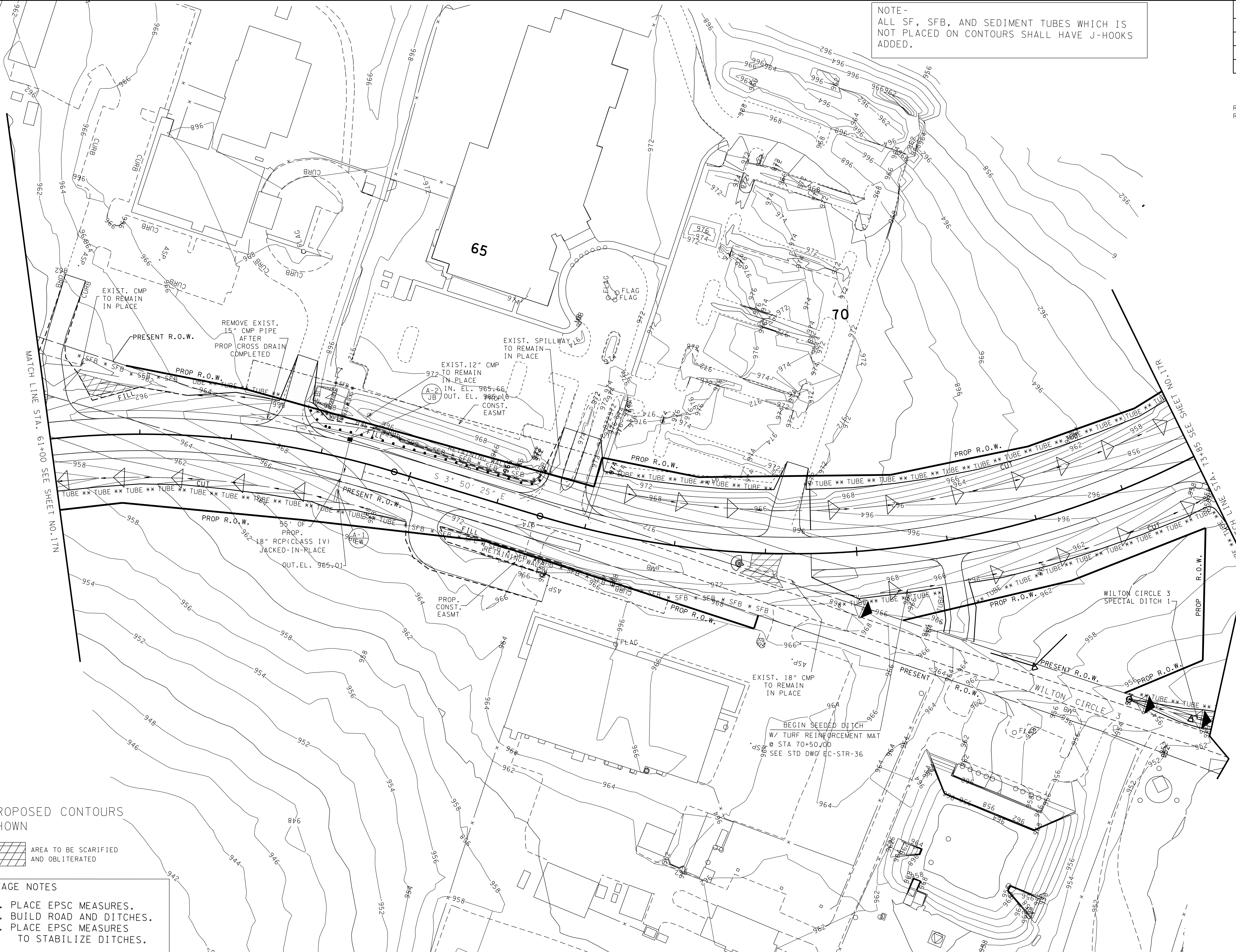
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17N
CONST	2015	STP-50(31)	17P

REV 07-29-14-REVISED EPSC PLANS.

REV 10-17-14-REVISED EPSC PLANS PER CFR.
REVISE PHASE TO STAGE.

NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.



PROPOSED CONTOURS SHOWN

AREA TO BE SCARIFIED AND OBLITERATED

STAGE NOTES

1. PLACE EPSC MEASURES.
2. BUILD ROAD AND DITCHES.
3. PLACE EPSC MEASURES TO STABILIZE DITCHES.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.61+00 TO STA.73+85

SCALE: 1"=50'

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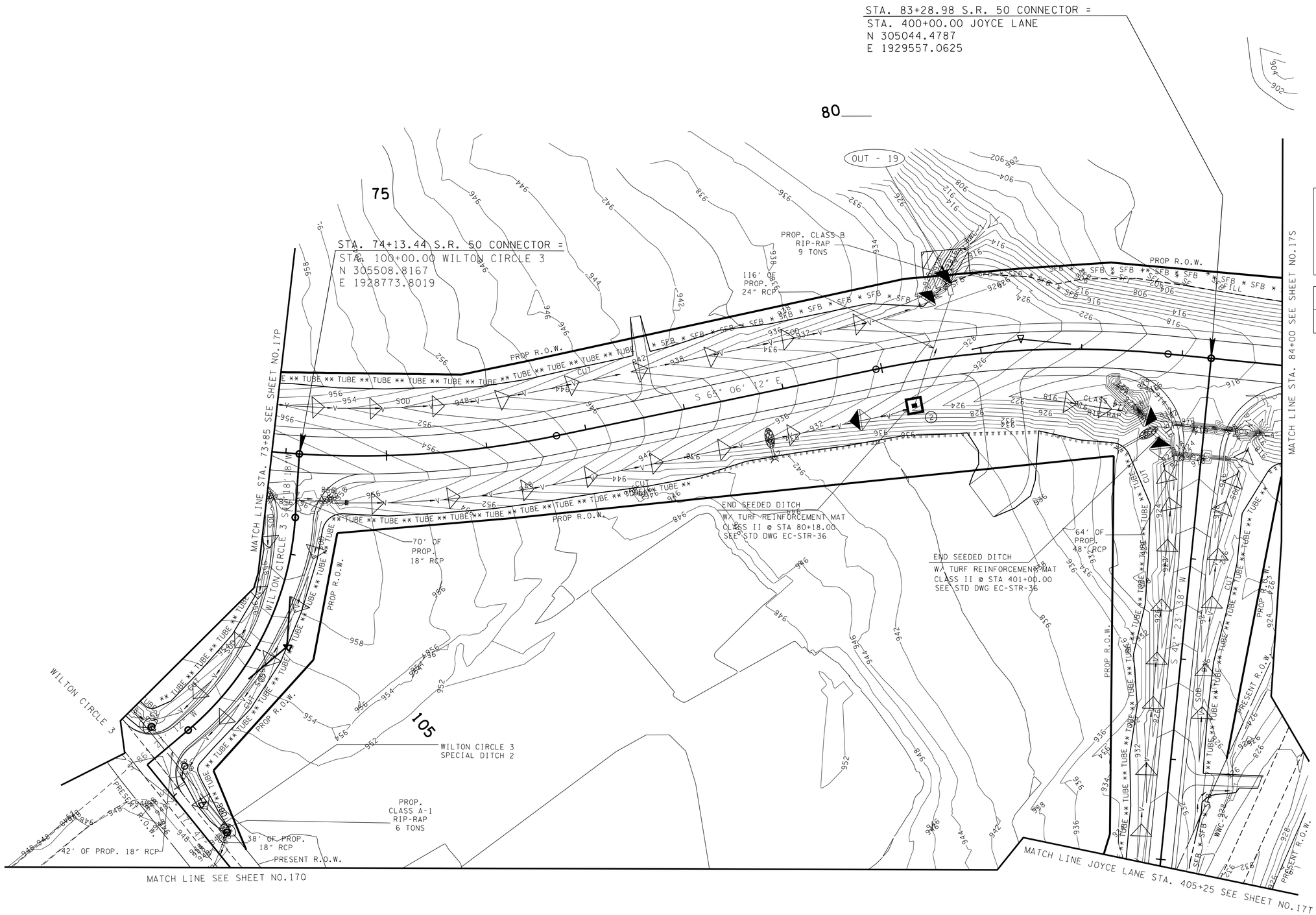
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17O
CONST	2015	STP-50(31)	17R

REV 07-29-14-REVISED EPSC PLANS.

REV 10-17-14-REVISED EPSC PLANS PER CFR. REVISE PHASE TO STAGE.

NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.



STAGE NOTES
1. PLACE EPSC MEASURES.
2. BUILD ROAD, RIP-RAP APRONS, AND DITCHES.
3. PLACE EPSC MEASURES TO STABILIZE DITCHES.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-19	7.42	3.74

PROPOSED CONTOURS SHOWN

N

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.73+85 TO STA.84+00

SCALE: 1"=50'

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

SPECIAL NOTES

ANY WORK WITHIN THE WETLAND/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 WETLAND/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 THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

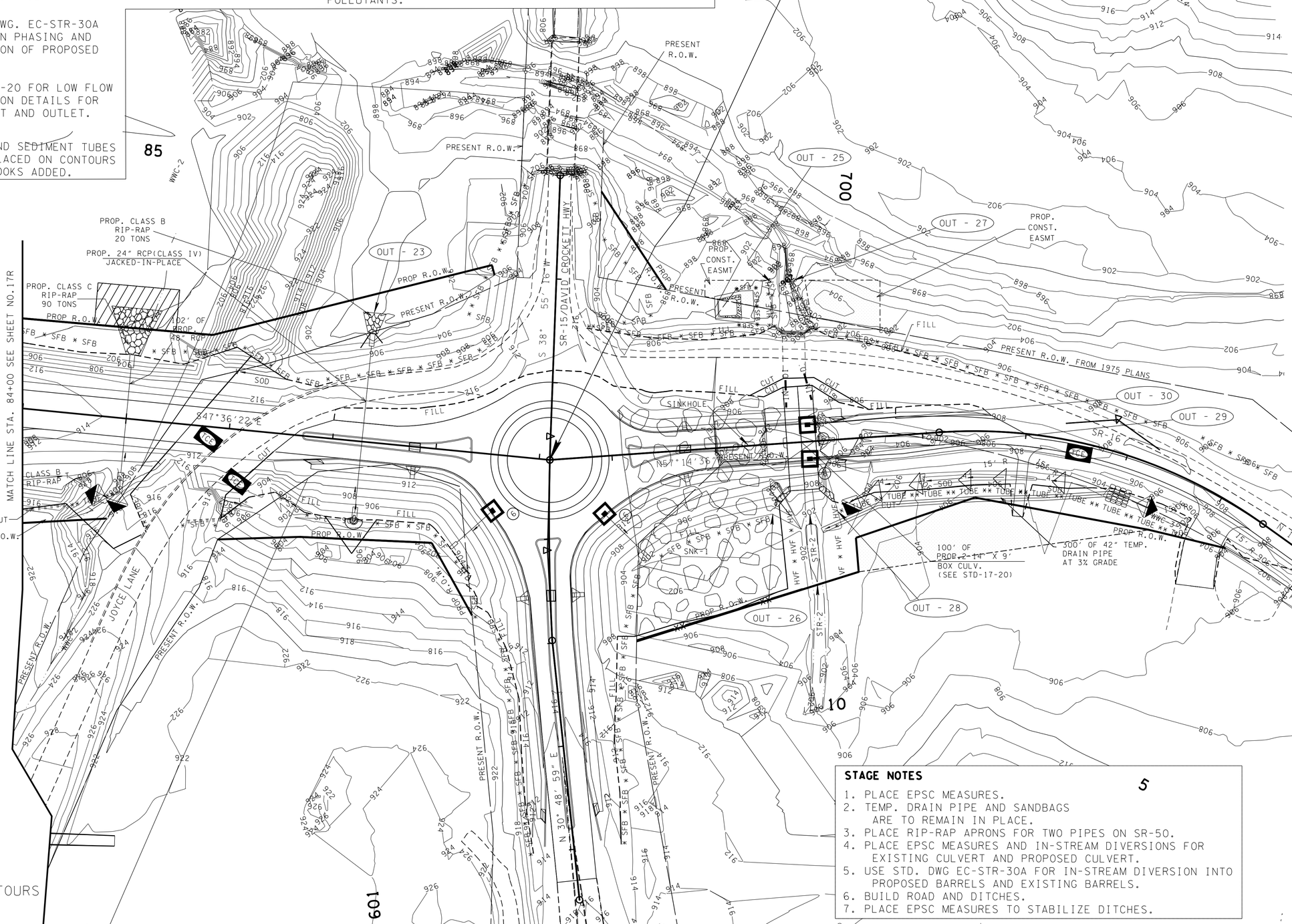
RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-2 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28 S.R. 50 CONNECTOR =
STA. 702+74.57 S.R.15(DAVID CROCKETT HWY)=
STA. 12+60.00 S.R.16=
STA. 604+76.70 S.R.15 SOUTH(DAVID CROCKETT HWY)=
N 304652.5516
E 1929986.3677

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17P
CONST	2015	STP-50(31)	17S

REV 07-29-14-REVISED EPSC PLANS.
REV 10-17-14-REVISED EPSC PLANS PER CFR.
REVISE PHASE TO STAGE.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT-23	9.50	3.40
OUT-25	0.20	8.00
OUT-26	0.05	8.00
OUT-27	0.06	13.00
OUT-28	0.25	2.20
OUT-29	0.07	2.00
OUT-30	0.07	2.00

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UNOFFICIAL SET
NOT FOR BIDDING

PROPOSED CONTOURS SHOWN

STAGE NOTES

1. PLACE EPSC MEASURES.
2. TEMP. DRAIN PIPE AND SANDBAGS ARE TO REMAIN IN PLACE.
3. PLACE RIP-RAP APRONS FOR TWO PIPES ON SR-50.
4. PLACE EPSC MEASURES AND IN-STREAM DIVERSIONS FOR EXISTING CULVERT AND PROPOSED CULVERT.
5. USE STD. DWG EC-STR-30A FOR IN-STREAM DIVERSION INTO PROPOSED BARRELS AND EXISTING BARRELS.
6. BUILD ROAD AND DITCHES.
7. PLACE EPSC MEASURES TO STABILIZE DITCHES.

STAGE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.84+00 TO STA.91+10

SCALE: 1"=50'

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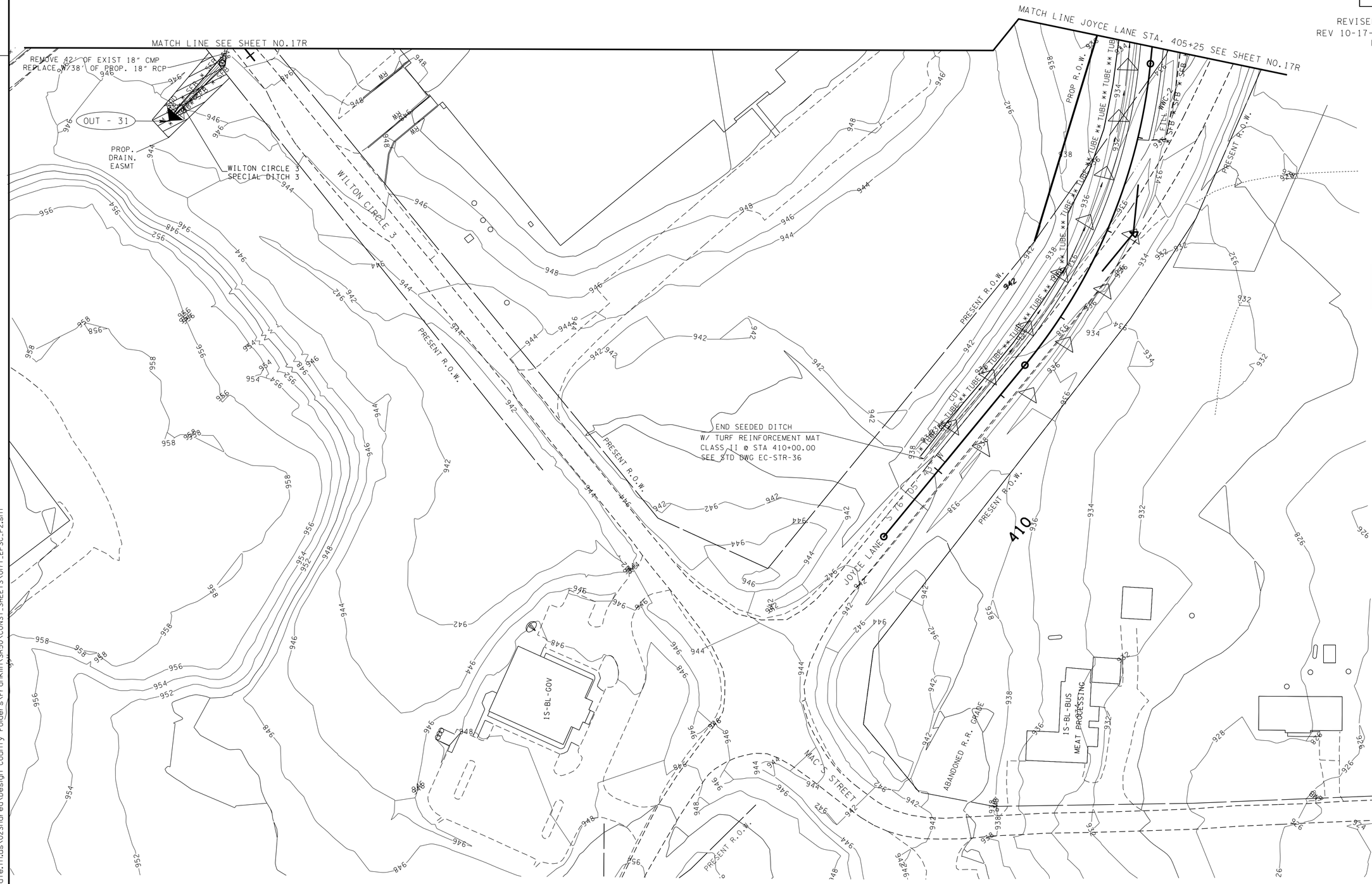
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17O
CONST	2015	STP-50(31)	17T

REVISED 07-29-14- REVISED EPSC PLANS.
REV 10-17-14- REVISED EPSC PLANS PER CFR.
REVISE PHASE TO STAGE.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT-31	3.58	3.08

NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

STAGE NOTES
1. PLACE EPSC MEASURES.
2. BUILD DITCHES AND ROADWAY.
3. PLACE EPSC MEASURES TO STABILIZE DITCHES.

PROPOSED CONTOURS SHOWN

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

JOYCE LANE
STA.405+25 TO STA.413+52
SCALE: 1"=50'

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

SPECIAL NOTES

REFER TO SHEET 17ZC FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLAND WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

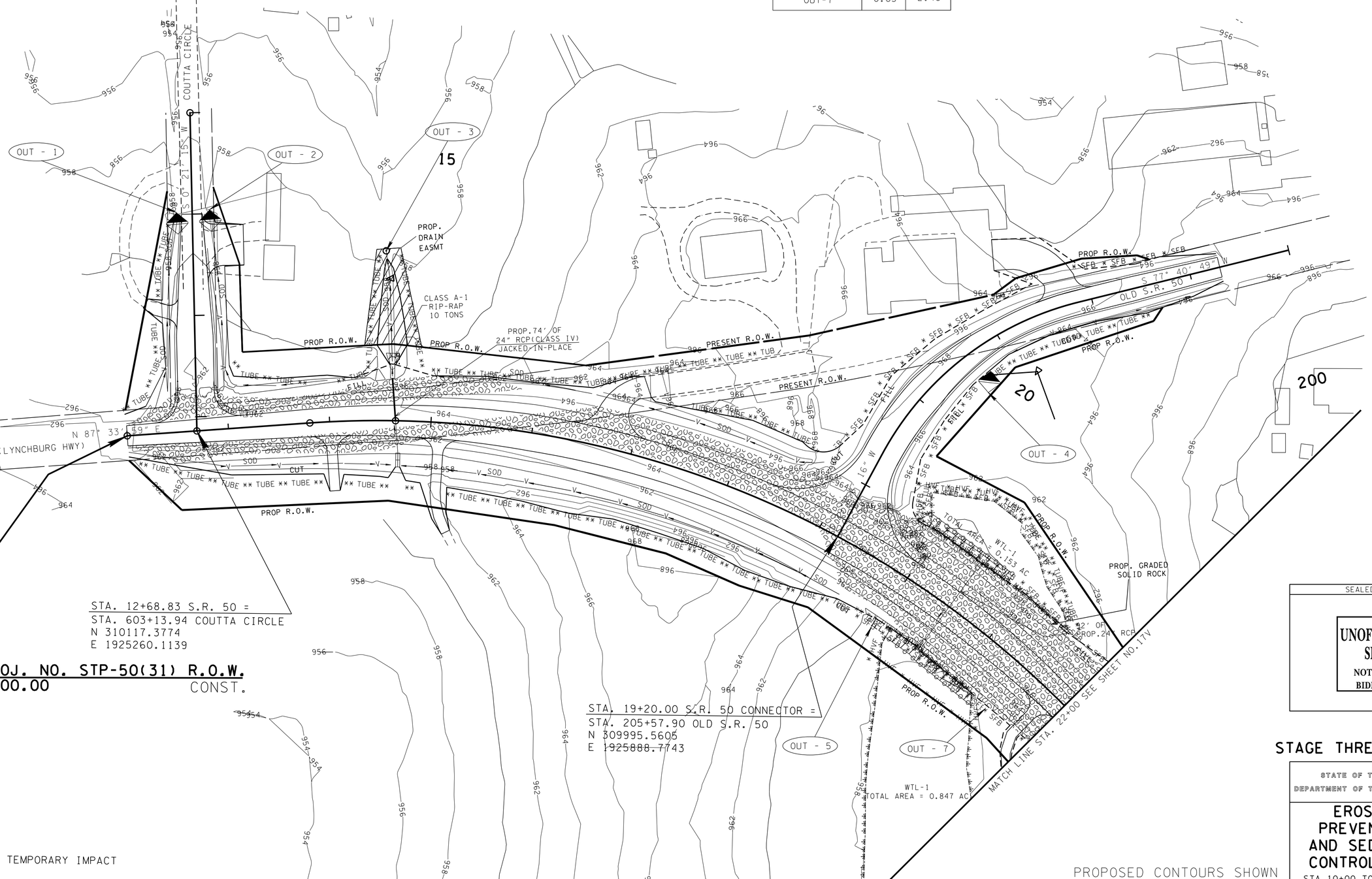
EPSC MEASURES FROM PREVIOUS PHASES ARE TO BE LEFT IN PLACE UNTIL NO LONGER NECESSARY.

STAGE NOTES
1. PLACE EPSC MEASURES.
2. FINISH ROAD.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-1	0.20	3.63
OUT-2	0.20	1.63
OUT-3	5.00	1.90
OUT-4	0.05	1.50
OUT-5	1.19	5.00
OUT-7	0.65	2.46

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17R
CONST	2015	STP-50(31)	17U

REV 07-29-14-REVISED EPSC PLANS.
REV 08-20-14-ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 10-17-14-REVISED EPSC PLANS PER CFR. REVISE PHASE TO STAGE.



STA. 12+68.83 S.R. 50 =
STA. 603+13.94 COUTTA CIRCLE
N 310117.3774
E 1925260.1139

BEGIN PROJ. NO. STP-50(31) R.O.W.
STA. 12+00.00 CONST.

STA. 19+20.00 S.R. 50 CONNECTOR =
STA. 205+57.90 OLD S.R. 50
N 309995.5605
E 1925888.7743

AREA OF TEMPORARY IMPACT

PROPOSED CONTOURS SHOWN

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE THREE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.10+00 TO STA.22+00
SCALE: 1"=50'

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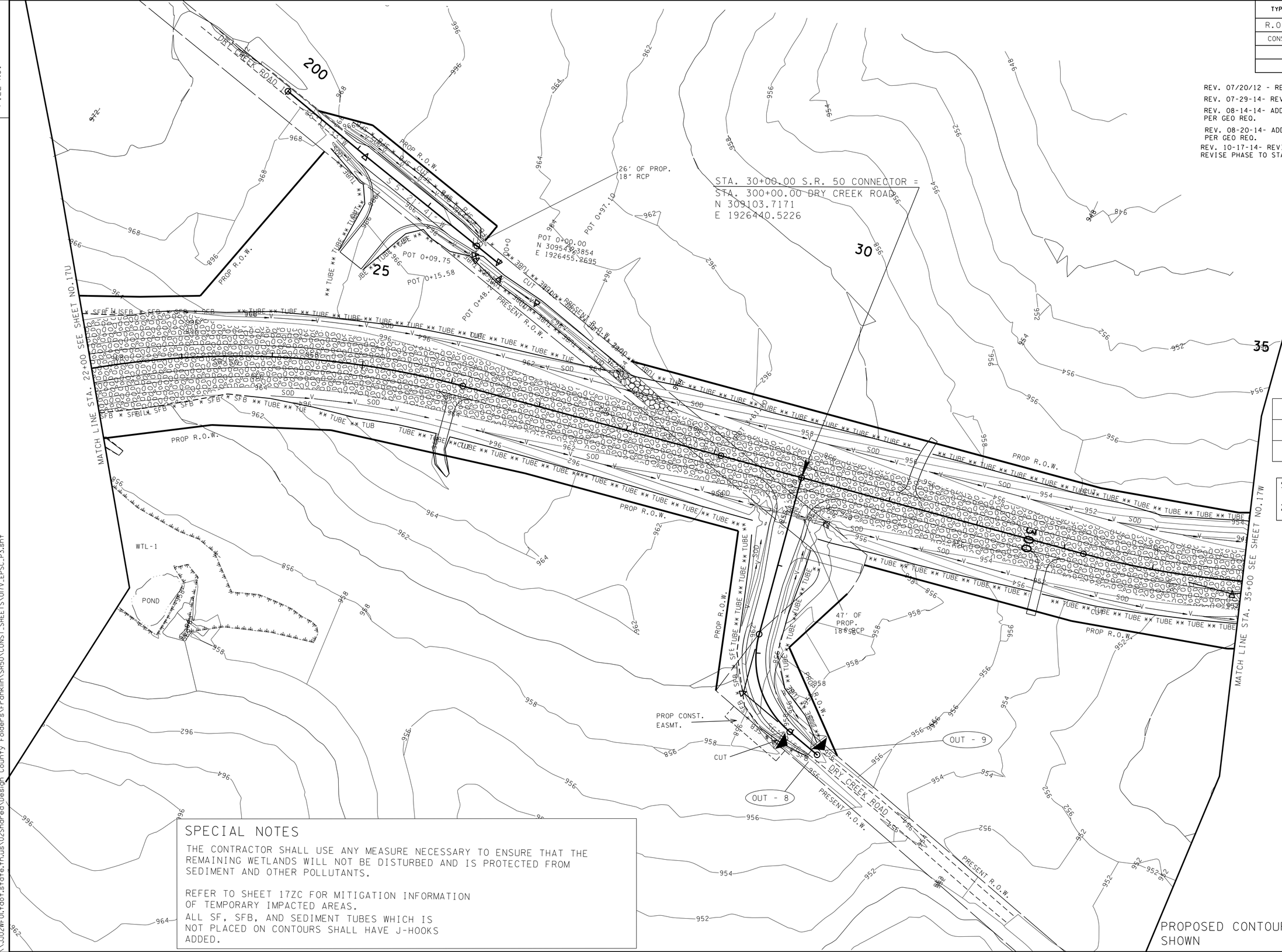
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17S
CONST	2015	STP-50(31)	17V

REV. 07/20/12 - REVISED PROP. ROW AT STA. 26+00 LT.
REV. 07-29-14- REVISED EPSC PLANS.
REV. 08-14-14- ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV. 08-20-14- ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV. 10-17-14- REVISED EPSC PLANS PER CFR. REVISE PHASE TO STAGE.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT-8	0.05	2.00
OUT-9	0.15	2.00

STAGE NOTES
1.PLACE EPSC MEASURES.
2.FINISH ROADWAY.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

SPECIAL NOTES

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLANDS WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO SHEET 17ZC FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

STAGE THREE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.22+00 TO STA.35+00
SCALE: 1"=50'

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

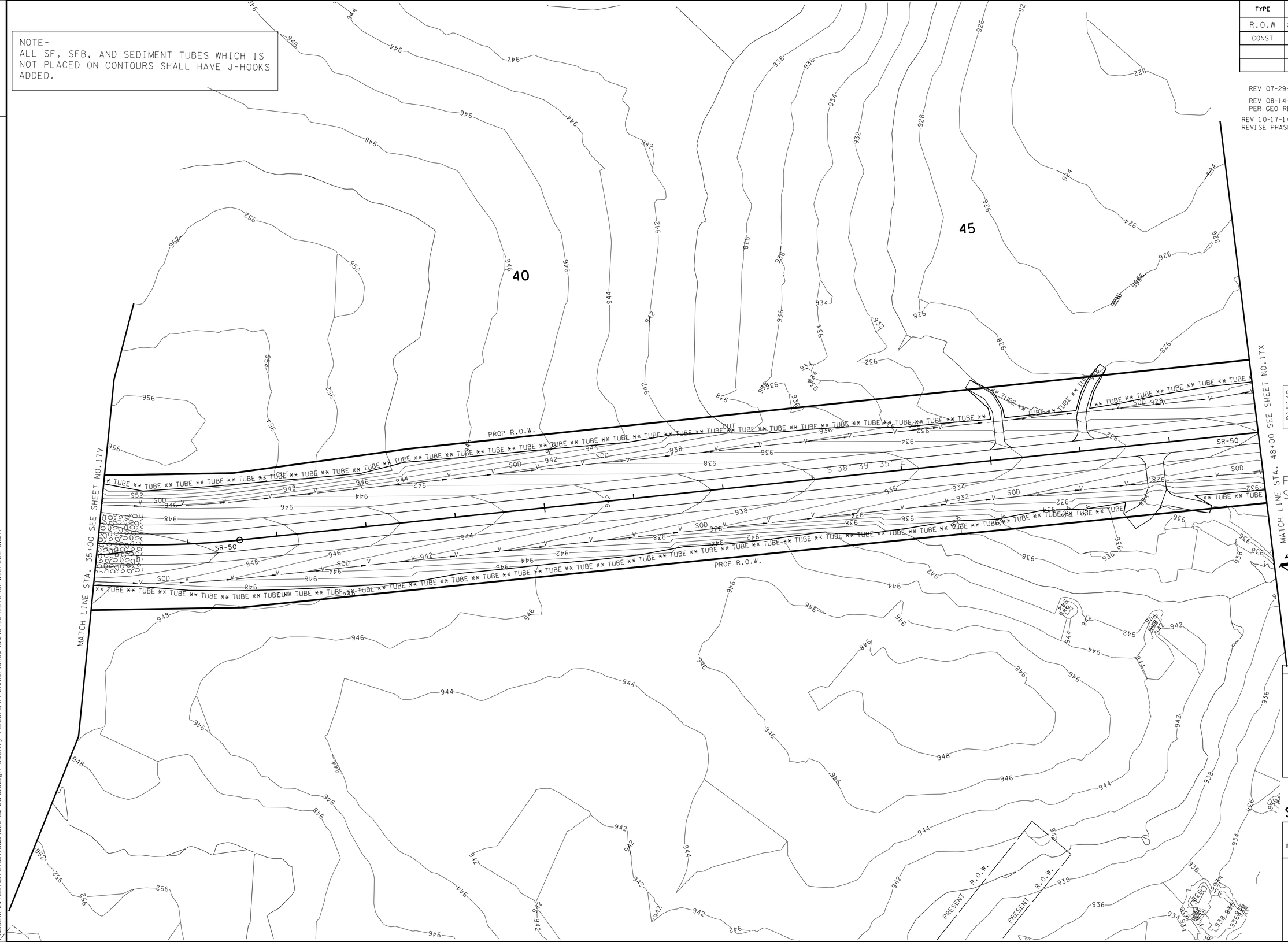
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17T
CONST	2015	STP-50(31)	17W

NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

REV 07-29-14-REVISED EPSC PLANS.

REV 08-14-14-ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 10-17-14-REVISED EPSC PLANS PER CFR. REVISE PHASE TO STAGE.



STAGE NOTES
1.PLACE EPSC MEASURES.
2.FINISH ROADWAY.

PROPOSED CONTOURS SHOWN

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE THREE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.35+00 TO STA.48+00

SCALE: 1"=50'

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

SPECIAL NOTES

ANY WORK WITHIN THE WETLAND/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 WETLAND/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 THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-1 AND PND-1 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

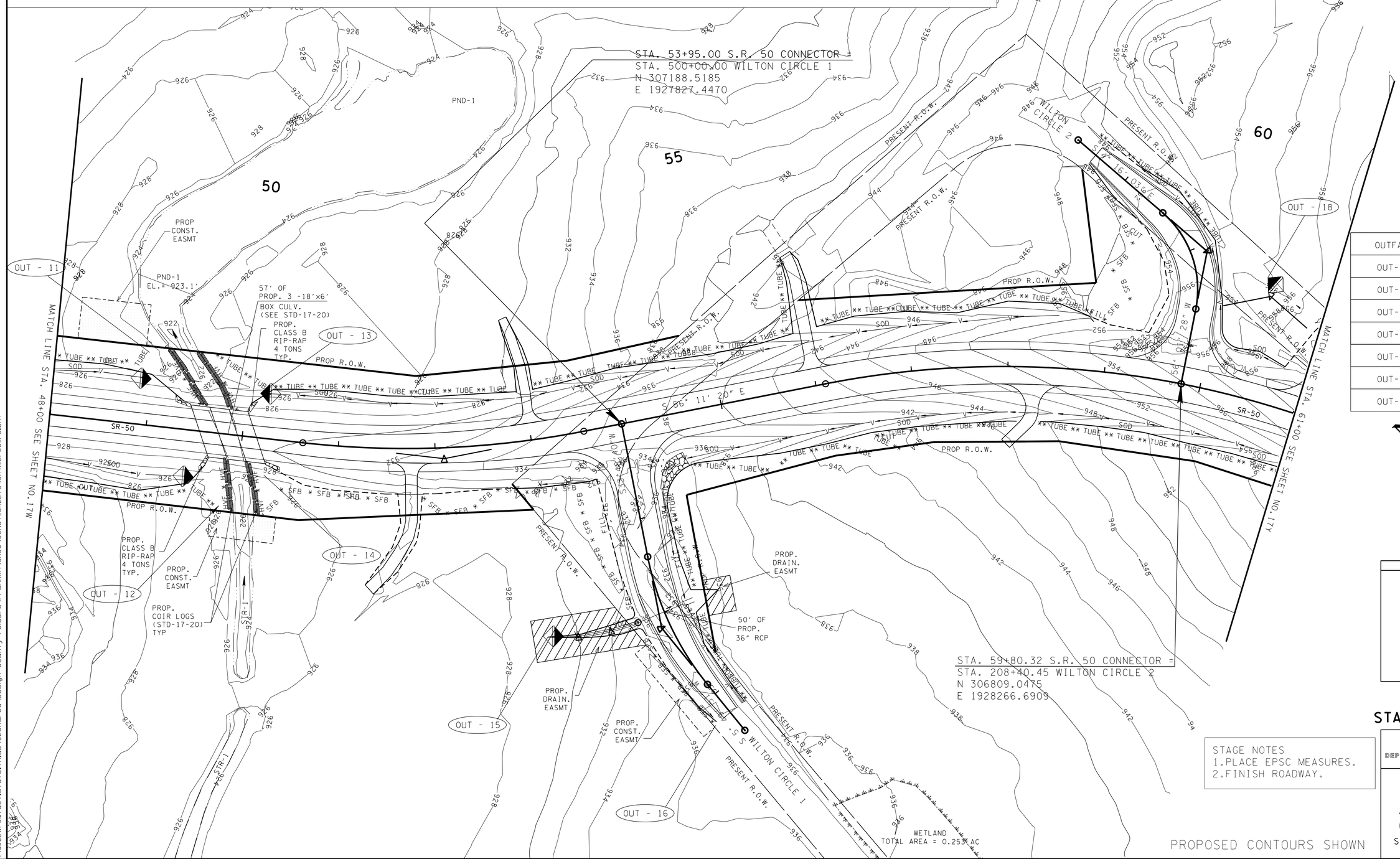
REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17U
CONST	2015	STP-50(31)	17X

REV 07-29-14-REVISED EPSC PLANS.
REV 10-17-14-REVISED EPSC PLANS PER CFR
REVISE PHASE TO STAGE.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT-11	1.00	2.46
OUT-12	3.60	9.00
OUT-13	0.63	0.95
OUT-14	0.44	8.69
OUT-15	2.01	4.00
OUT-16	0.05	3.33
OUT-18	1.30	2.17

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE NOTES
1.PLACE EPSC MEASURES.
2.FINISH ROADWAY.

PROPOSED CONTOURS SHOWN

STAGE THREE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.48+00 TO STA.61+00
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	STP-50(31)	17V
CONST	2015	STP-50(31)	17Y

REV 07-29-14-REVISED EPSC PLANS.

REV 10-17-14-REVISED EPSC PLANS PER CFR.
REVISE PHASE TO STAGE.

NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE THREE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.61+00 TO STA.73+85

SCALE: 1″=50′

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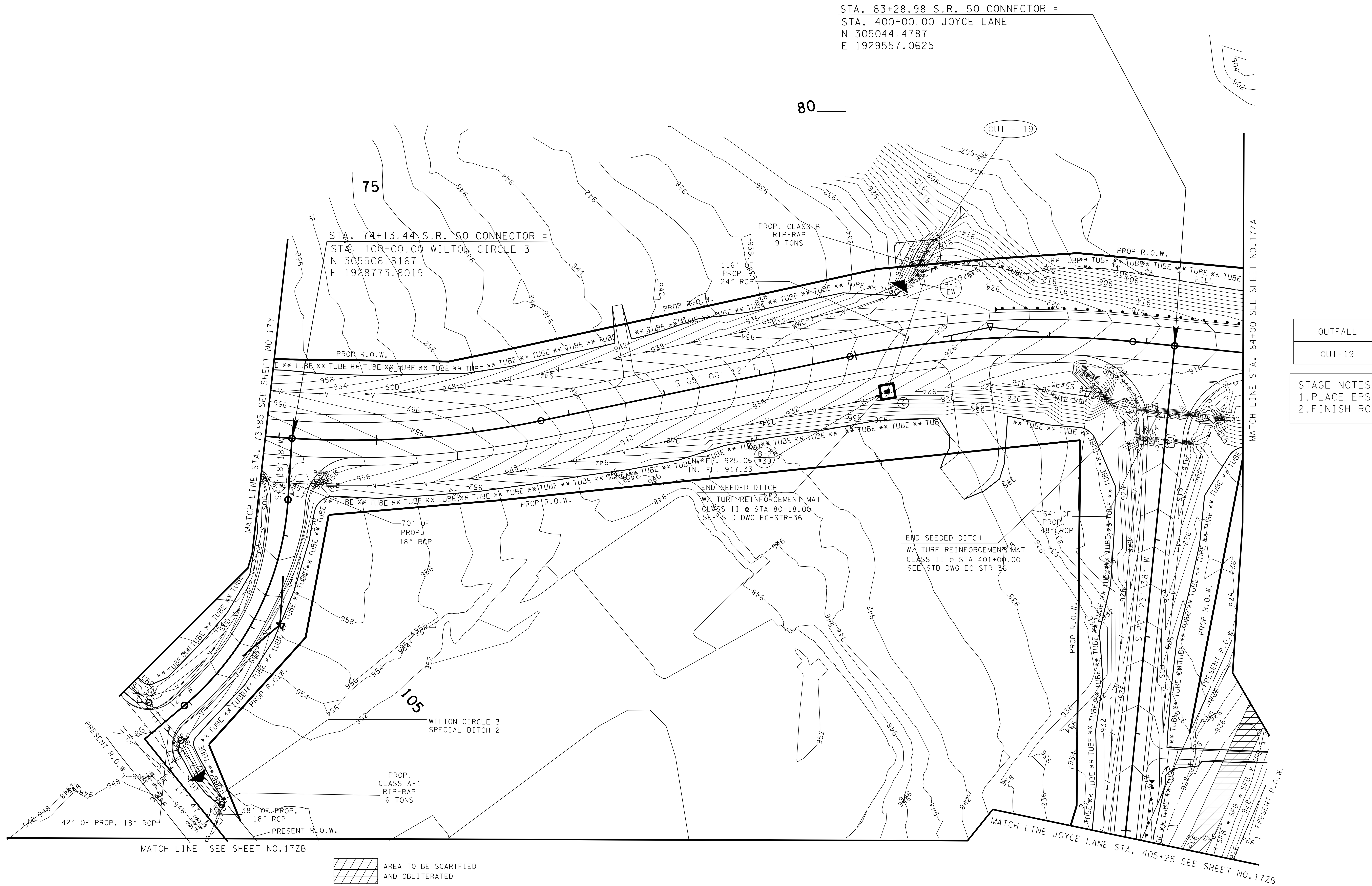
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17W
CONST	2015	STP-50(31)	17Z

REV 07-29-14-REVISED EPSC PLANS.
REV 10-17-14-REVISED EPSC PLANS PER CFR.
REVISE PHASE TO STAGE.

NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.



AREA TO BE SCARIFIED AND OBLITERATED

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-19	7.42	3.74

STAGE NOTES
1. PLACE EPSC MEASURES.
2. FINISH ROADWAY.

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PROPOSED CONTOURS SHOWN

STAGE THREE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA.73+85 TO STA.84+00
SCALE: 1"=50'

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

SPECIAL NOTES

ANY WORK WITHIN THE WETLAND/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 WETLAND/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 THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.

ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-2 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

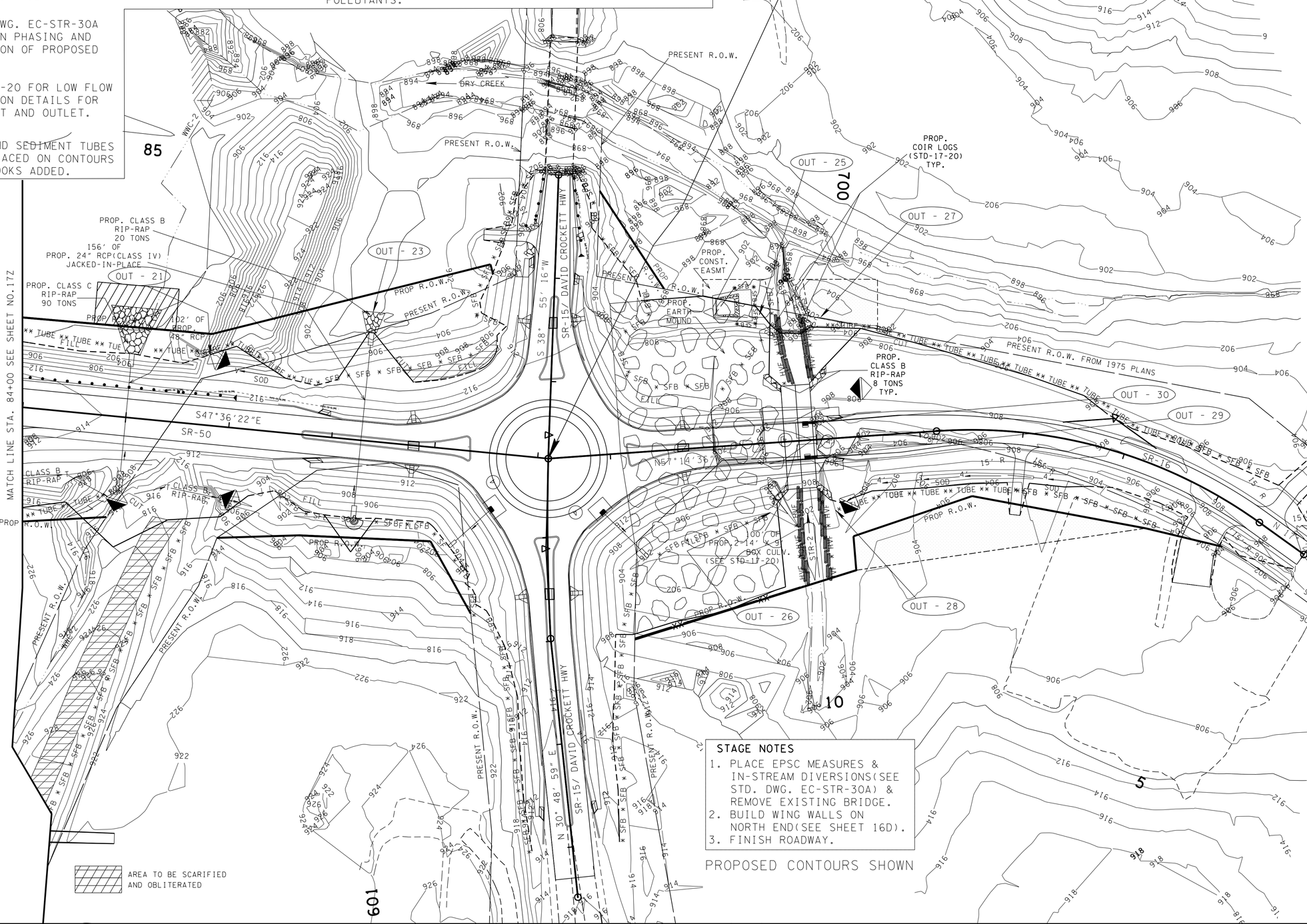
END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28 S.R. 50 CONNECTOR =
STA. 702+74.57 S.R.15(DAVID CROCKETT HWY)=
STA. 12+60.00 S.R.16=
STA. 604+76.70 S.R.15 SOUTH(DAVID CROCKETT HWY)=
N 304652.5516
E 1929986.3677

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17X
CONST	2015	STP-50(31)	17ZA

REV. 09-07-12- REMOVED DITCH NORTH OF SR-16

REV. 07-29-14- REVISED EPSC PLANS.
REV. 10-17-14- REVISED EPSC PLANS PER CFR. REVISE PHASE TO STAGE.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT-21	0.08	13.00
OUT-23	9.50	3.40
OUT-25	0.20	8.00
OUT-26	0.05	8.00
OUT-27	0.06	13.00
OUT-28	0.25	2.20
OUT-29	0.07	2.00
OUT-30	0.07	2.00



STAGE NOTES
1. PLACE EPSC MEASURES & IN-STREAM DIVERSIONS(SEE STD. DWG. EC-STR-30A) & REMOVE EXISTING BRIDGE.
2. BUILD WING WALLS ON NORTH END(SEE SHEET 16D).
3. FINISH ROADWAY.

PROPOSED CONTOURS SHOWN

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STAGE THREE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.84+00 TO STA.91+10

SCALE: 1"=50'

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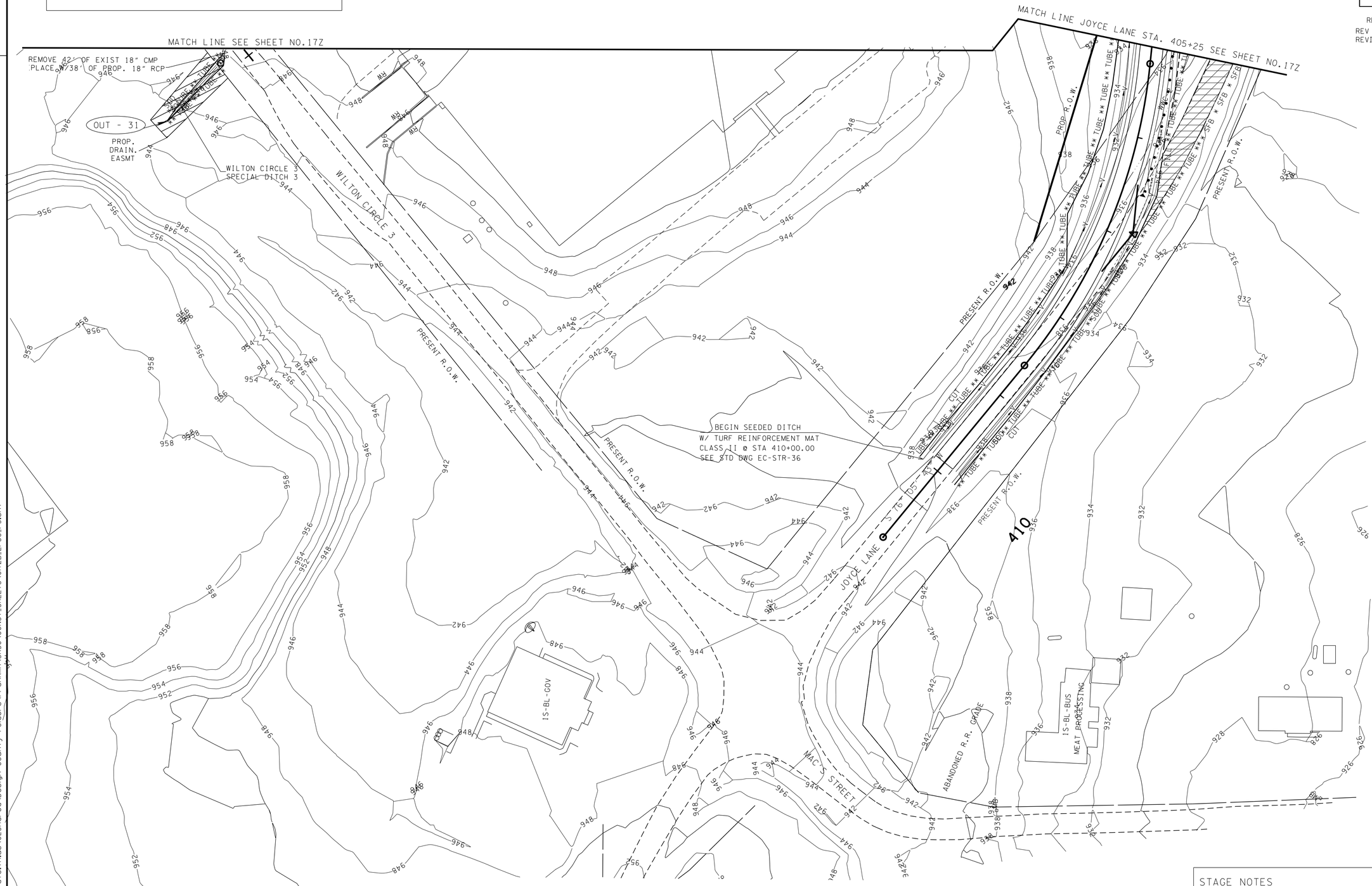
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17Y
CONST	2015	STP-50(31)	17ZB

REV 07-29-14-REVISED EPSC PLANS.
REV 10-17-14-REVISED EPSC PLANS PER CFR.
REVISE PHASE TO STAGE.

NOTE-
ALL SF, SFB, AND SEDIMENT TUBES WHICH IS NOT PLACED ON CONTOURS SHALL HAVE J-HOOKS ADDED.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT-31	3.58	3.08

STAGE NOTES
1. PLACE EPSC MEASURES.
2. FINISH ROADWAY.

PROPOSED CONTOURS SHOWN

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STAGE THREE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

JOYCE LANE
STA.405+25 TO STA.413+52
SCALE: 1"=50'

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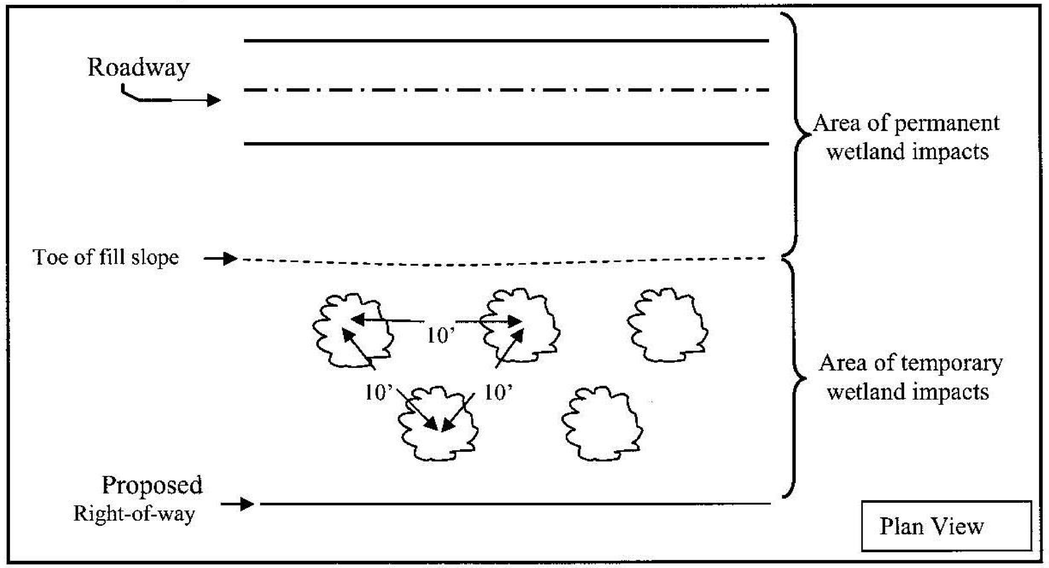
REV. 10-15-12 - ADDED TREE NOTES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	17Z
CONST	2015	STP-50(31)	17ZC

Standard On-site Mitigation for Temporary Wetland Impact Areas (if required)

Apply these measures to all applicable temporary wetland impact areas listed in Form J. For temporary wetland impact areas, remove the top 12" of topsoil and stockpile it until construction is complete. Once construction 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. The area of temporary impacts will be stabilized according to standard practices. Planting will be based on notes provided by Ecology. Wetland areas located outside of proposed right-of-way and construction easements are to be clearly marked and not disturbed.

Tree planting scheme for temporary wetland impact areas



ITEM NO.	DESCRIPTION	UNIT	QUANTITY
802-12.02	ACER RUBRUM (RED MAPLE SEEDLNG B.R.)	EACH	9
802-12.03	ACER SACCHARINUM (SILVER MAPLE SEEDLNG B.R.)	EACH	8
802-12.20	NYSSA AQUATICA (SWAMP TUPELO SEEDLNG B.R.)	EACH	8
802-12.26	PLATANUS OCCIDENTALIS (SYCAMORE SEEDLNG B.R.)	EACH	8
802-12.38	QUERCUS PHELLOS (WILLOW OAK SEEDLNG B.R.)	EACH	8

TREES

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.

The contractor should arrange several months ahead of time to obtain the correct tree species, as some may require some time to locate.

All trees planted shall be wrapped as per section 802.07 of TDOT standard specifications for the road and bridge construction.

Trees shall be watered as required through the period of establishment to ensure survival.

Topsoil is to be removed from all areas of temporary wetland impacts and stockpiled prior to construction.

Upon completion of construction activities, temporary haul roads are to be removed. Excavated material from the haul roads is to be disposed of as directed by the engineer.

CHANNEL RELOCATION SEQUENCE AND IMPLEMENTATION NOTES FOR RELOCATED STREAM CHANNELS (IGNORE REFERENCES TO ITEMS NOT SPECIFIED)

1. If the relocated channel flows into a proposed culvert, the new channel shall be relocated prior to installation of the culvert to ensure correct elevation levels are set for the inlet. The new channel shall be excavated and stabilized during a low-water period. Rip-rap (only as shown on plans), seeding, 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 relocation sequence should match the elevations of the existing channel, and a steady percent slope should be maintained throughout the relocated channel centerline or as specified.
   f. Install trees according to standard specifications section 802.
3. Only rip-rap shown on plans should be used in the relocated channel reach. Any other proposed rip-rap should be coordinated with the Environmental Division through the TDOT Construction 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 involved agencies and TDOT divisions. Tennessee Department of Environment and Conservation may make recommendations concerning erosion control via the engineer without such referral.

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DEPARTMENT OF TRANSPORTATION

STREAM & WETLAND MITIGATION PLAN

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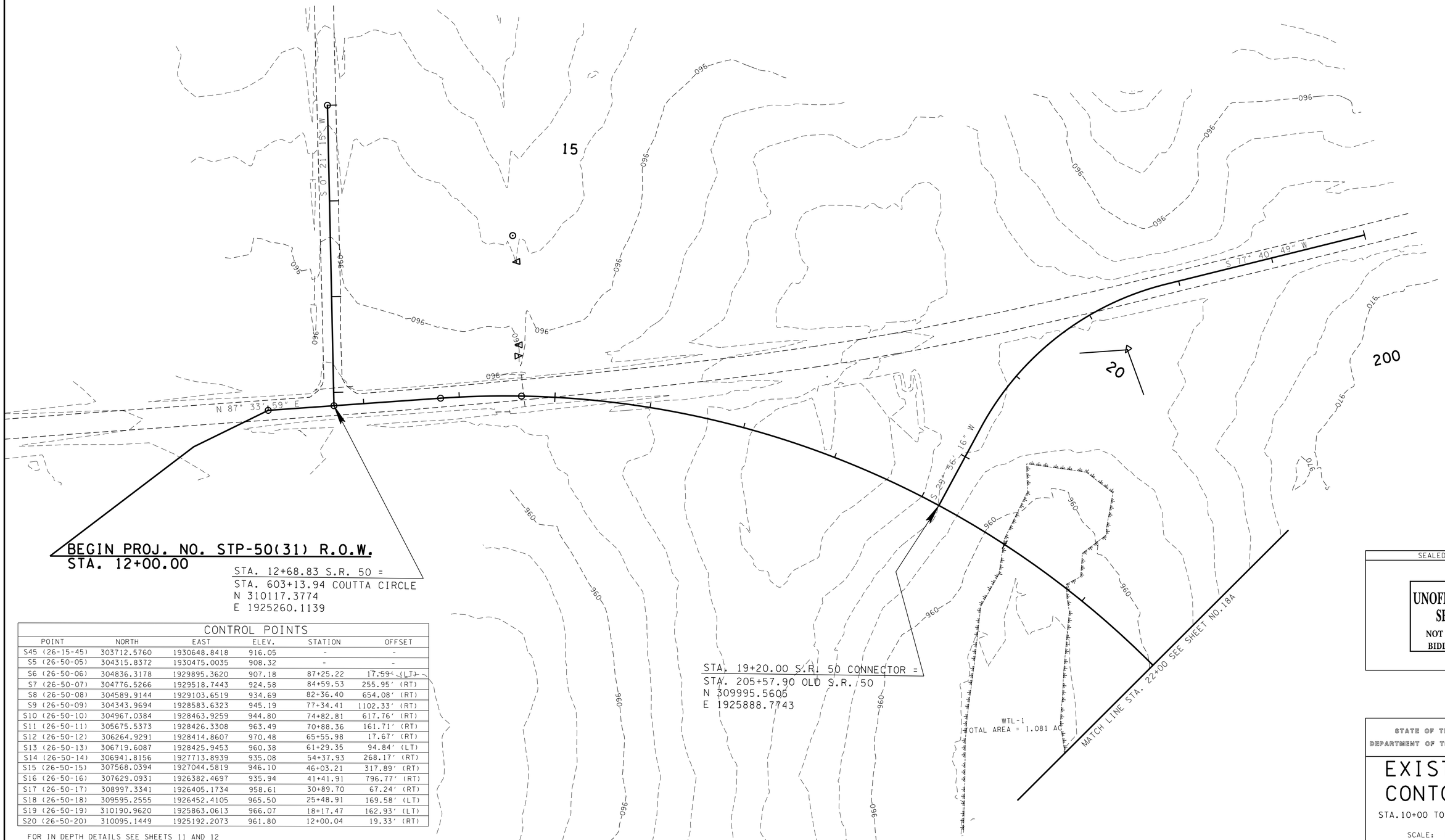
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2010	STP-50(31)	18
CONST	2015	STP-50(31)	18

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



CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S45 (26-15-45)	303712.5760	1930648.8418	916.05	-	-
S5 (26-50-05)	304315.8372	1930475.0035	908.32	-	-
S6 (26-50-06)	304836.3178	1929895.3620	907.18	87+25.22	17.59' (LT)
S7 (26-50-07)	304776.5266	1929518.7443	924.58	84+59.53	255.95' (RT)
S8 (26-50-08)	304589.9144	1929103.6519	934.69	82+36.40	654.08' (RT)
S9 (26-50-09)	304343.9694	1928583.6323	945.19	77+34.41	1102.33' (RT)
S10 (26-50-10)	304967.0384	1928463.9259	944.80	74+82.81	617.76' (RT)
S11 (26-50-11)	305675.5373	1928426.3308	963.49	70+88.36	161.71' (RT)
S12 (26-50-12)	306264.9291	1928414.8607	970.48	65+55.98	17.67' (RT)
S13 (26-50-13)	306719.6087	1928425.9453	960.38	61+29.35	94.84' (LT)
S14 (26-50-14)	306941.8156	1927713.8939	935.08	54+37.93	268.17' (RT)
S15 (26-50-15)	307568.0394	1927044.5819	946.10	46+03.21	317.89' (RT)
S16 (26-50-16)	307629.0931	1926382.4697	935.94	41+41.91	796.77' (RT)
S17 (26-50-17)	308997.3341	1926405.1734	958.61	30+89.70	67.24' (RT)
S18 (26-50-18)	309595.2555	1926452.4105	965.50	25+48.91	169.58' (LT)
S19 (26-50-19)	310190.9620	1925863.0613	966.07	18+17.47	162.93' (LT)
S20 (26-50-20)	310095.1449	1925192.2073	961.80	12+00.04	19.33' (RT)

FOR IN DEPTH DETAILS SEE SHEETS 11 AND 12

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA.10+00 TO STA.22+00

SCALE: 1"=50'

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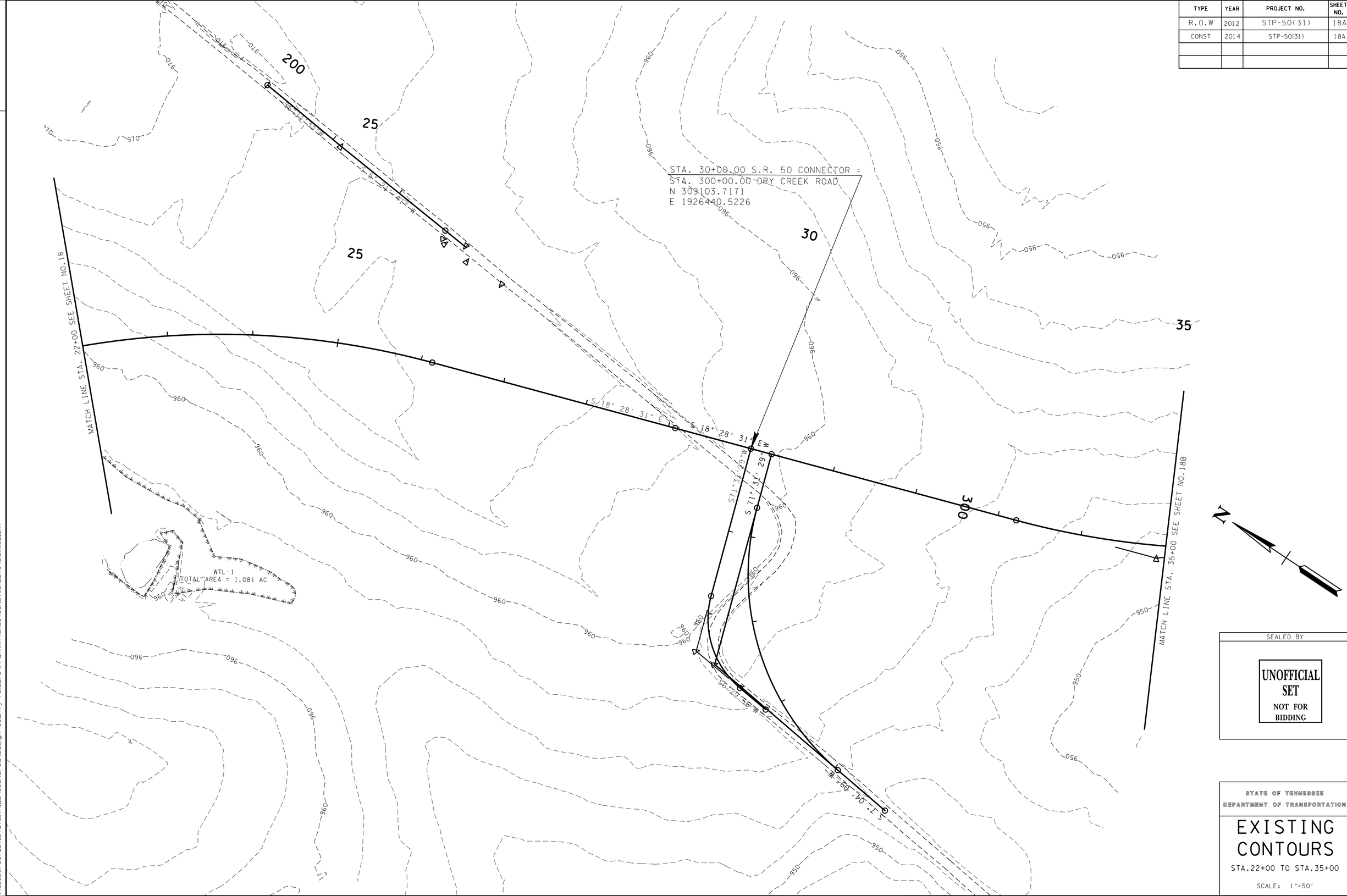
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	18A
CONST	2014	STP-50(31)	18A

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



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA.22+00 TO STA.35+00

SCALE: 1"=50'

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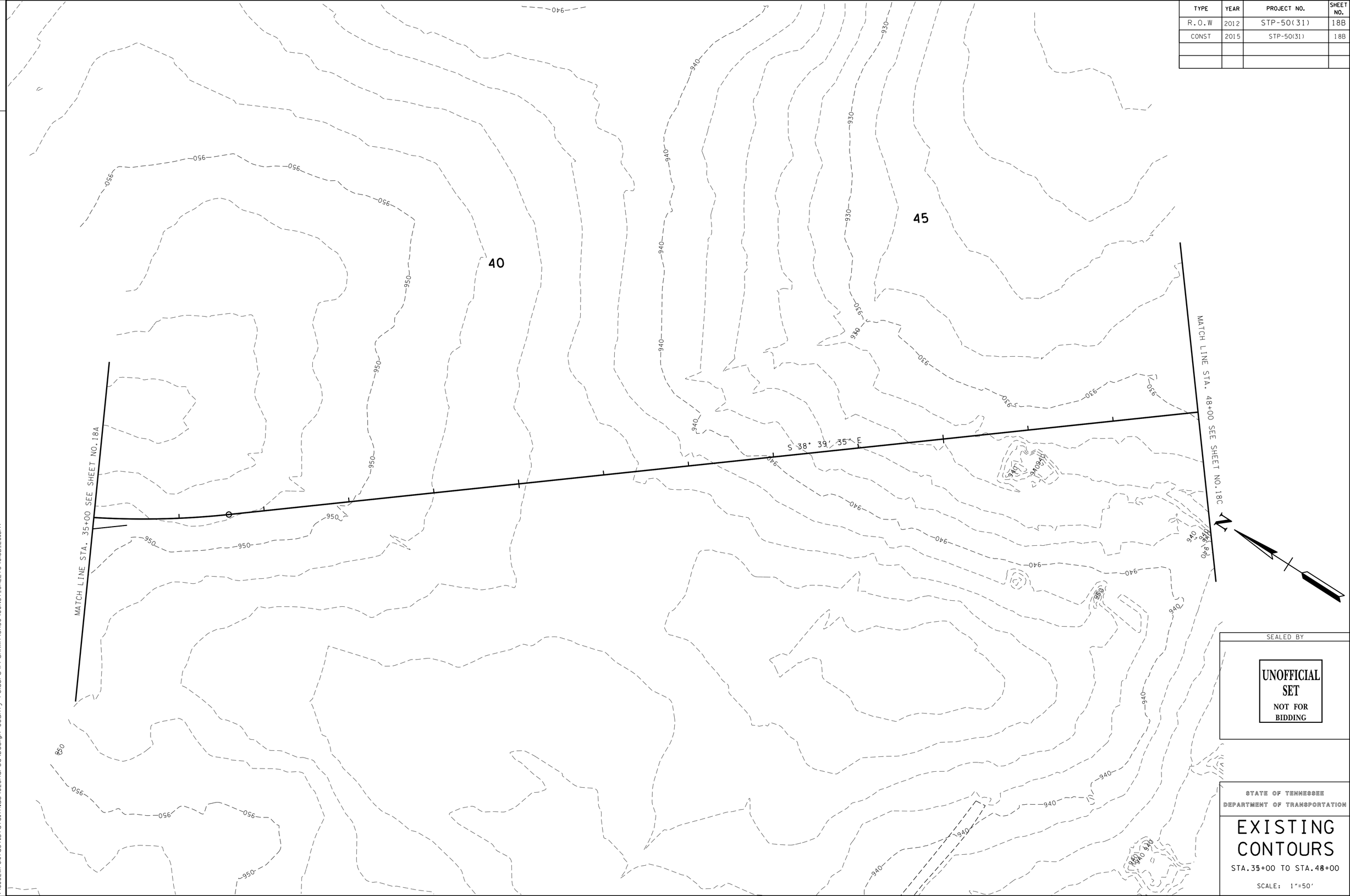
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	18B
CONST	2015	STP-50(31)	18B



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA.35+00 TO STA.48+00

SCALE: 1"=50'

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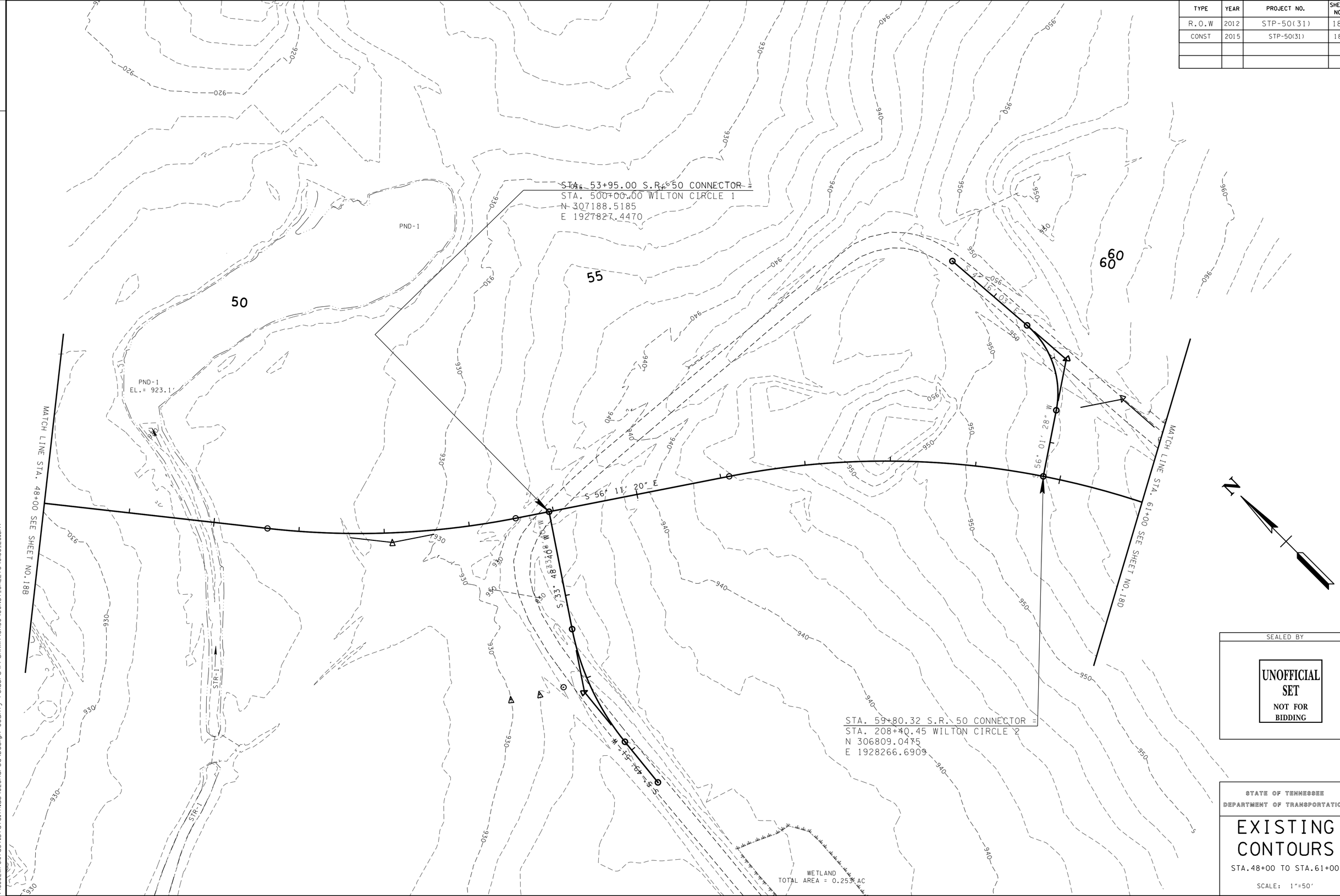
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	18C
CONST	2015	STP-50(31)	18C

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



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA.48+00 TO STA.61+00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	18D
CONST	2015	STP-50(31)	18D

TENNESSEE D.O.T.
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FILE NO.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA.61+00 TO STA.73+85

SCALE: 1"=50'

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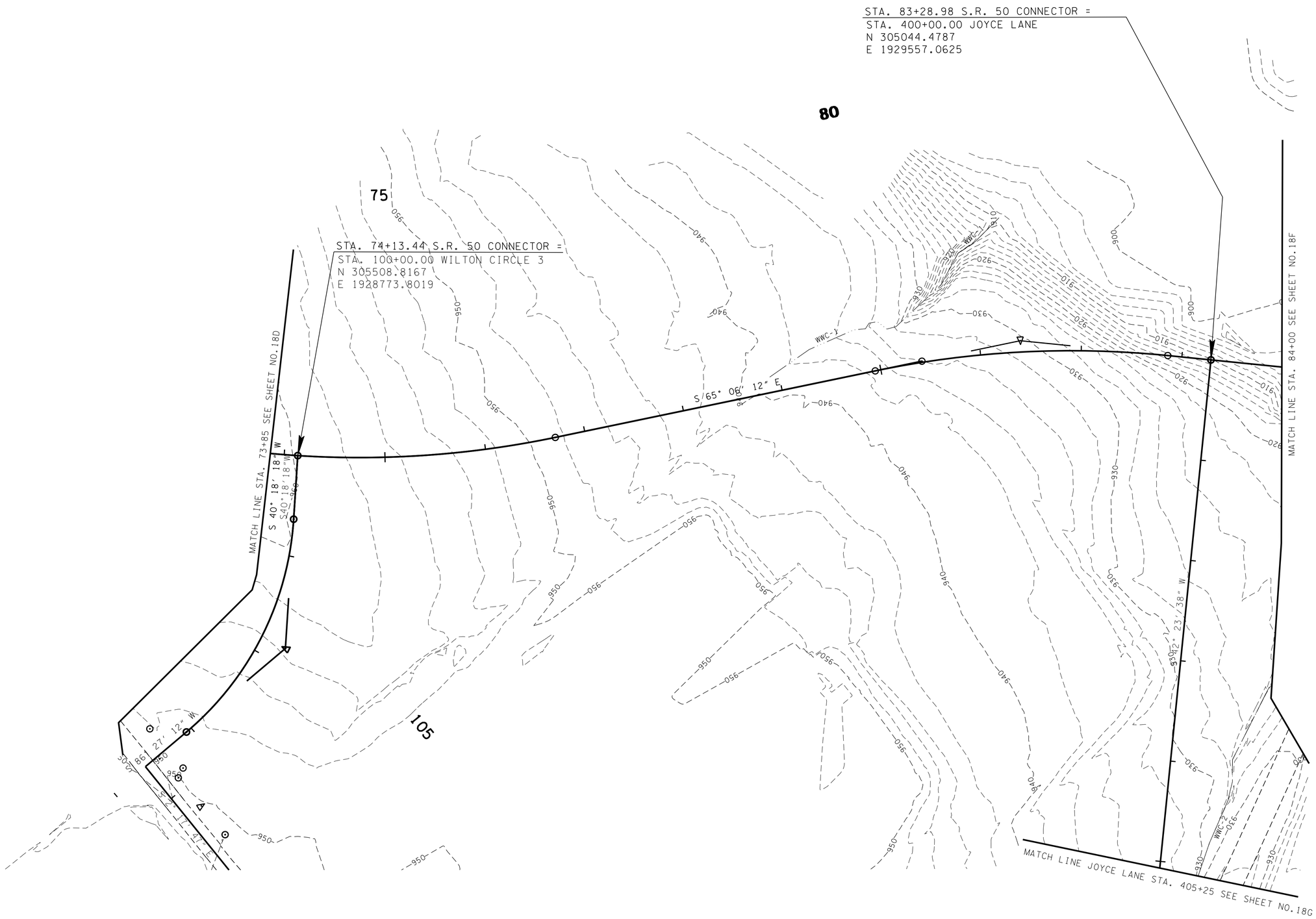
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	18E
CONST	2015	STP-50(31)	18E

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



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA.73+85 TO STA.84+00

SCALE: 1"=50'

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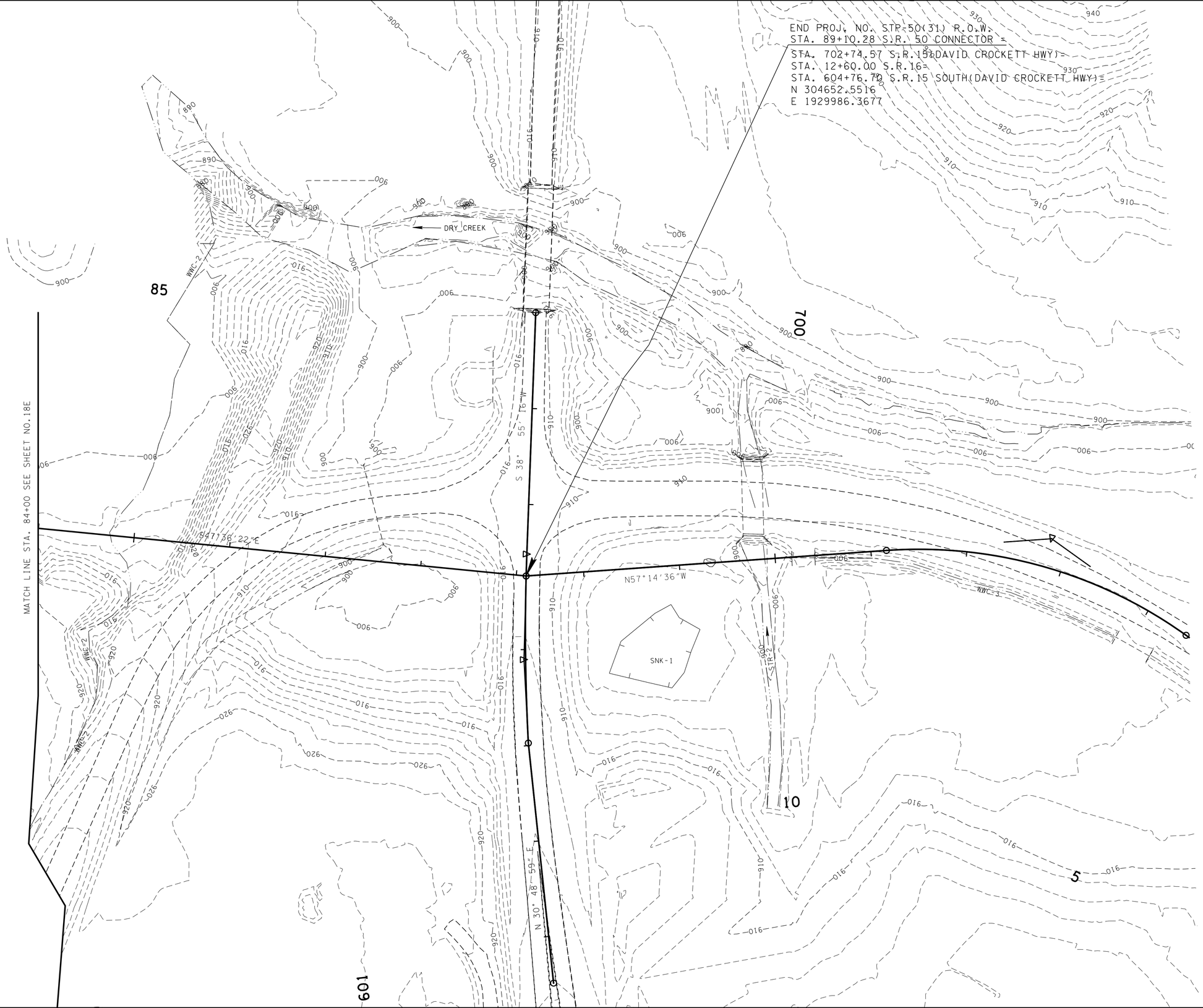
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	18F
CONST	2015	STP-50(31)	18F

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



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA.84+00 TO STA.90+10

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	STP-50(31)	18G
CONST	2015	STP-50(31)	18G

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

JOYCE LANE
STA.405+25 TO STA.413+52

SCALE: 1"=50'

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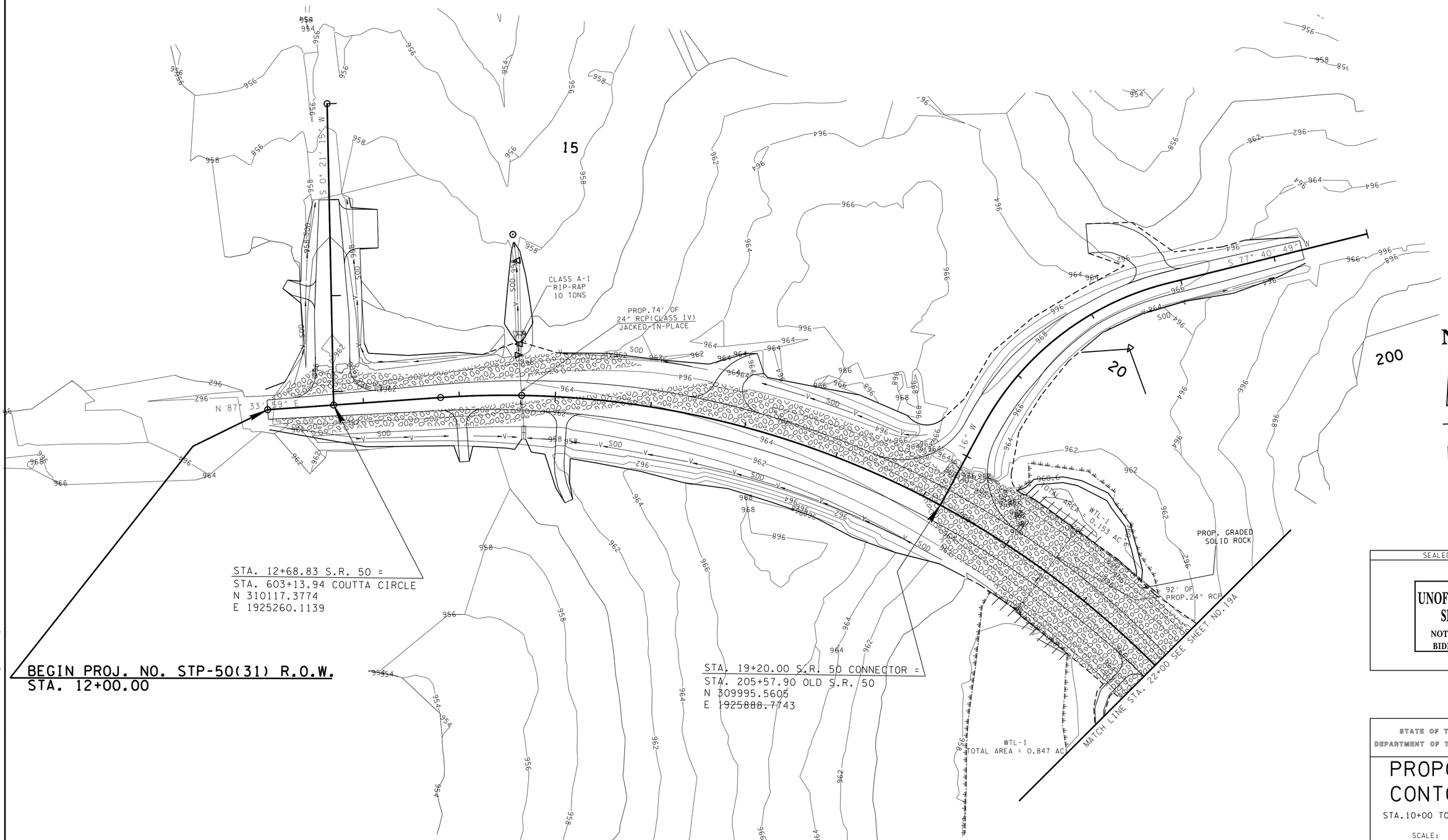
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	19
CONST	2015	STP-50(31)	19

REV 08-20-14-ADDED PROP GRADED SOLID ROCK PER GEO REQ.



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DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA.10+00 TO STA.22+00

SCALE: 1"=50'

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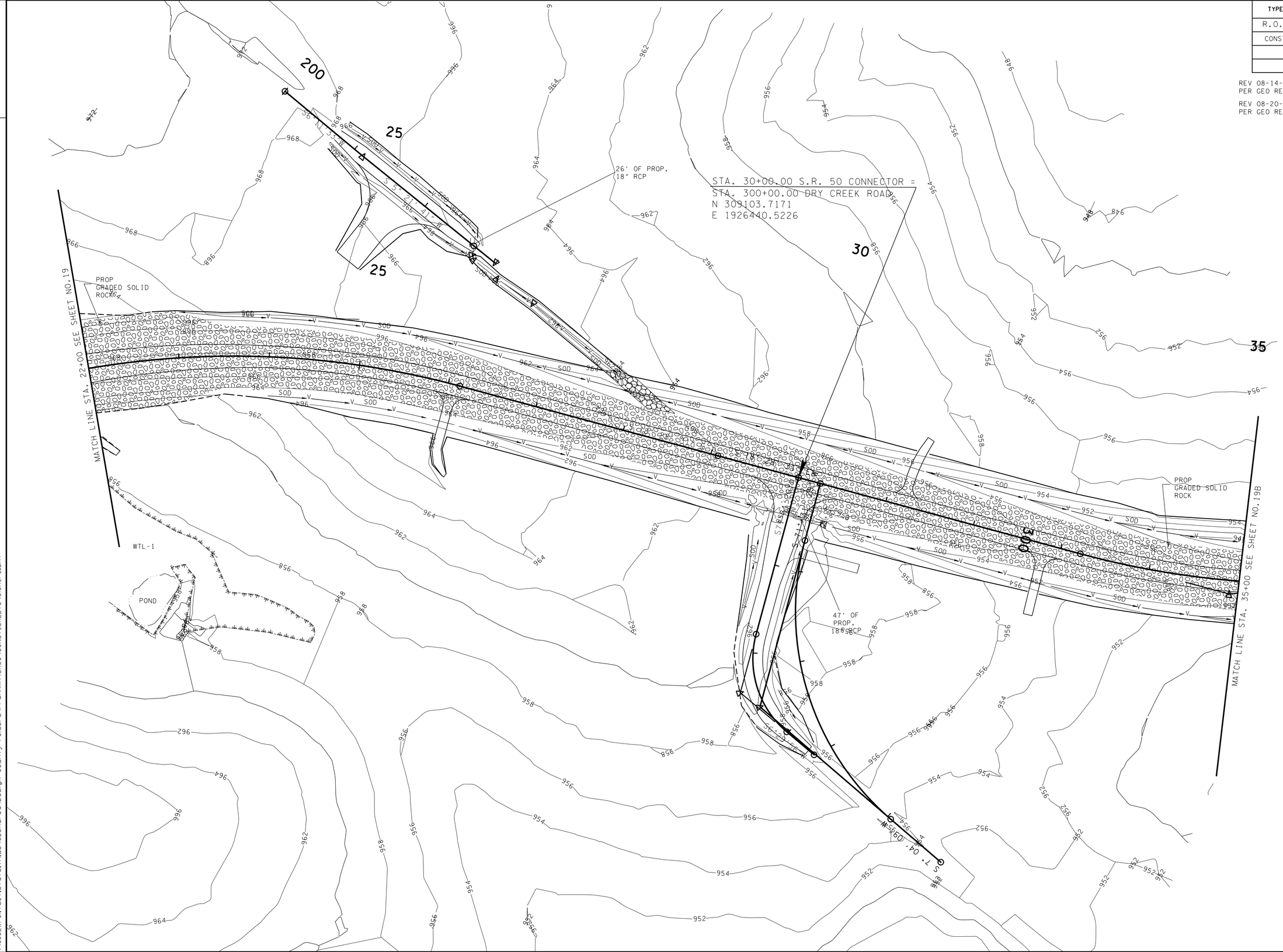
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	19A
CONST	2015	STP-50(31)	19A

REV 08-14-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 08-20-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA.22+00 TO STA.35+00

SCALE: 1"=50'

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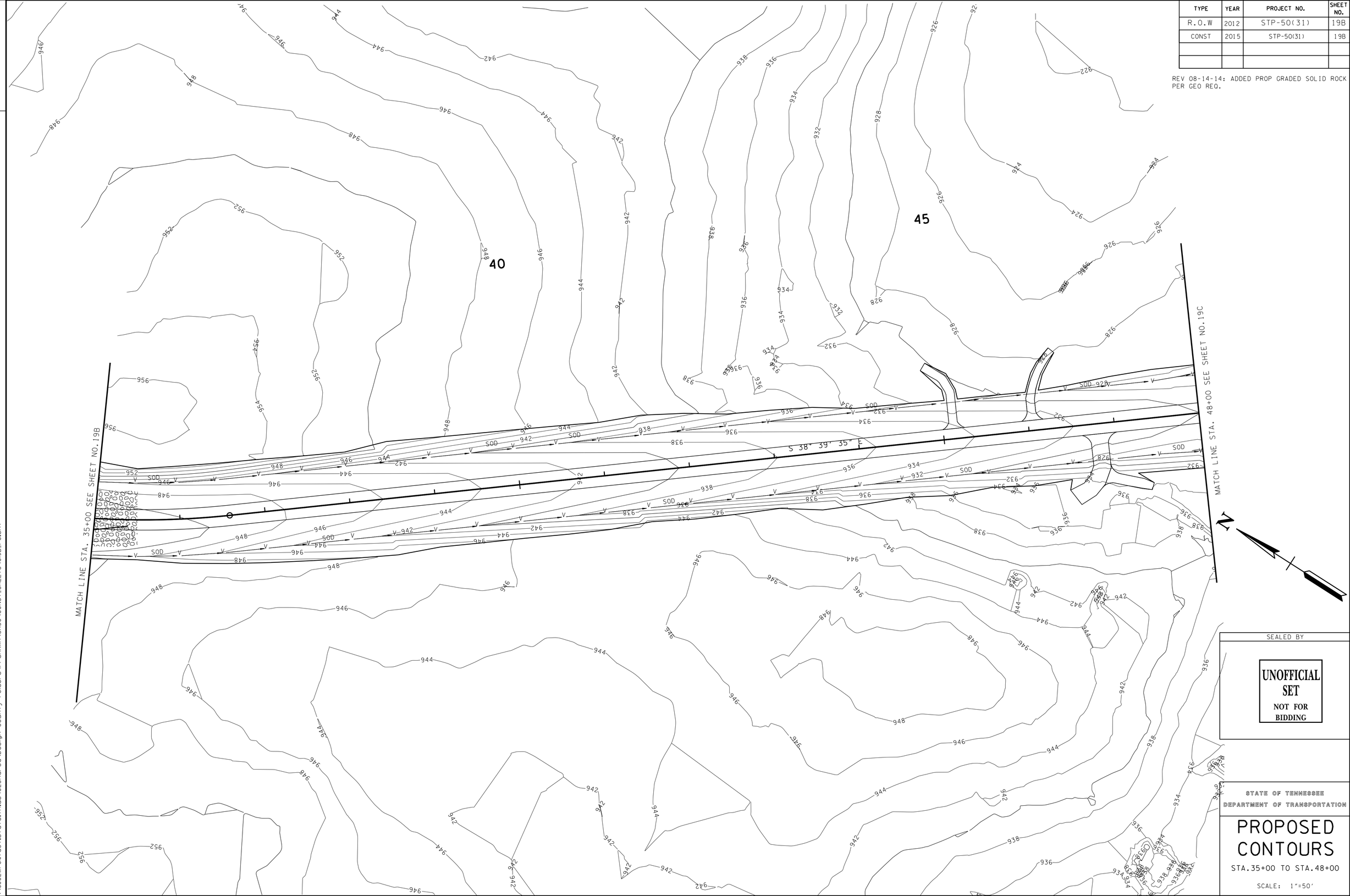
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	19B
CONST	2015	STP-50(31)	19B

REV 08-14-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.



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DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA.35+00 TO STA.48+00

SCALE: 1"=50'

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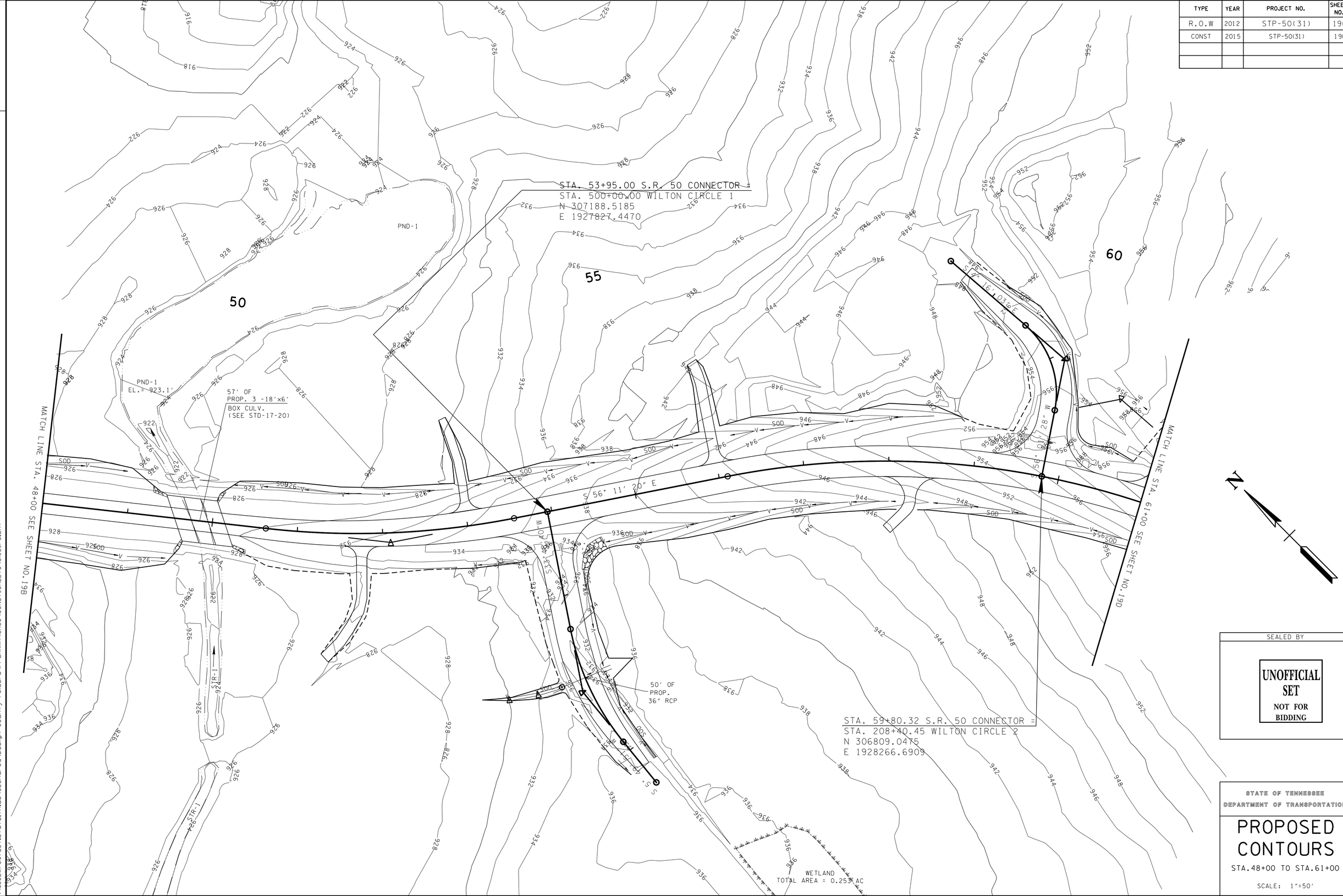
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	19C
CONST	2015	STP-50(31)	19C

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



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA.48+00 TO STA.61+00

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	STP-50(31)	19D
CONST	2015	STP-50(31)	19D

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PROPOSED CONTOURS

STA.61+00 TO STA.73+85

SCALE: 1"=50'

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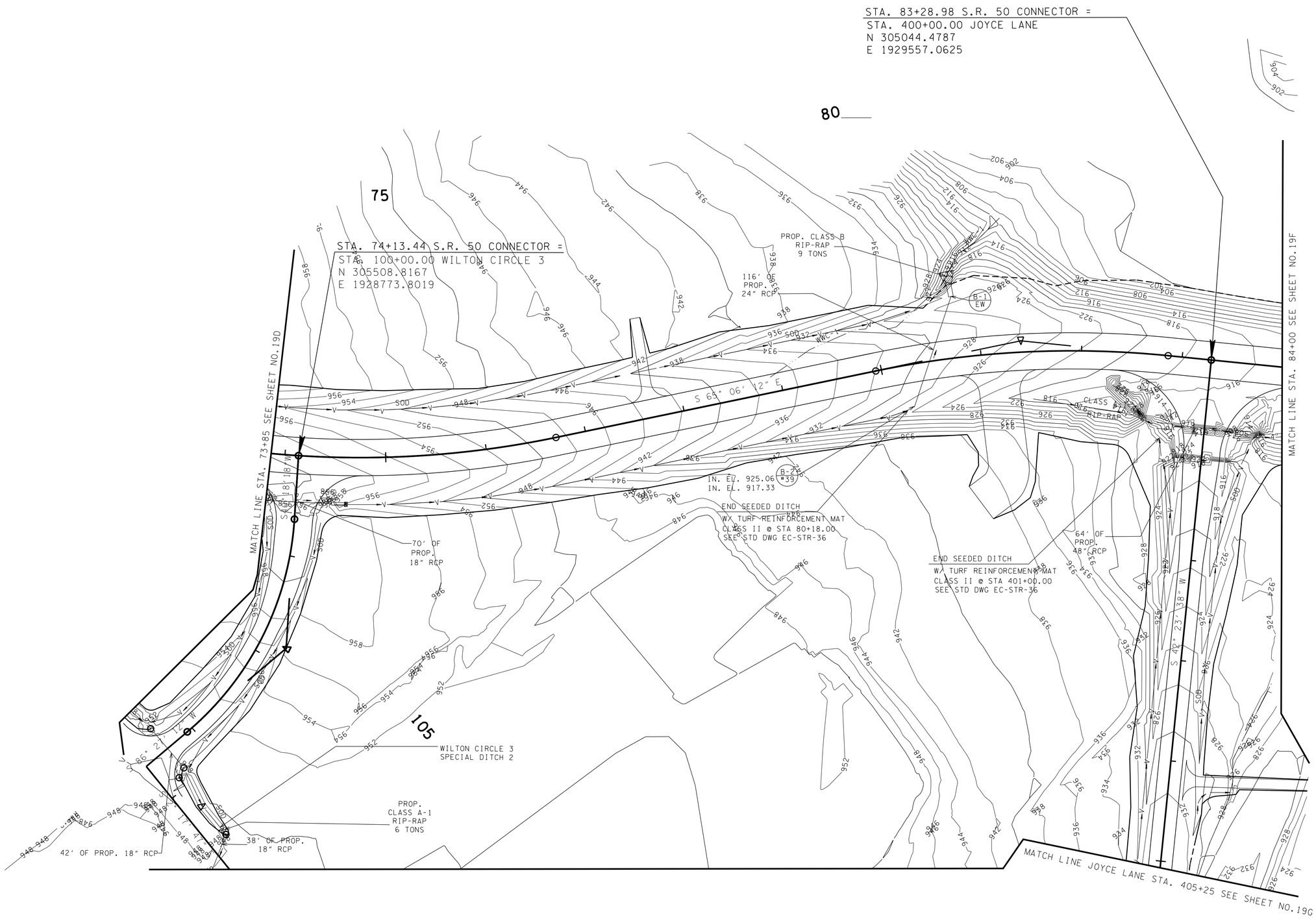
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	19E
CONST	2015	STP-50(31)	19E

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



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA.73+85 TO STA.84+00

SCALE: 1"=50'

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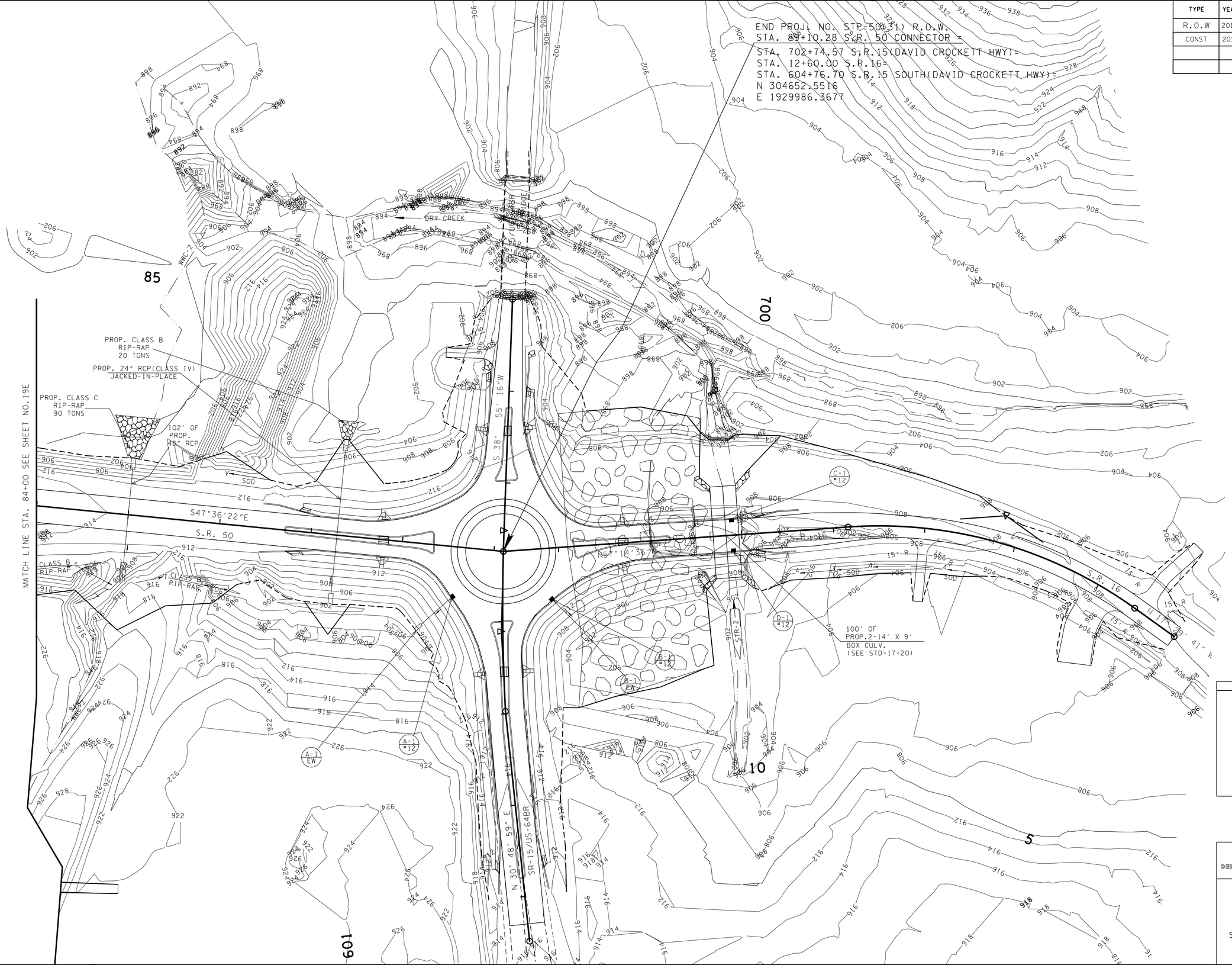
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	19F
CONST	2015	STP-50(31)	19F

END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28 S.R. 50 CONNECTOR =
STA. 702+74.57 S.R.15(DAVID CROCKETT HWY)=
STA. 12+60.00 S.R.16=
STA. 604+76.70 S.R.15 SOUTH(DAVID CROCKETT HWY)=
N 304652.5516
E 1929986.3677



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DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA.84+00 TO STA.90+10

SCALE: 1"=50'

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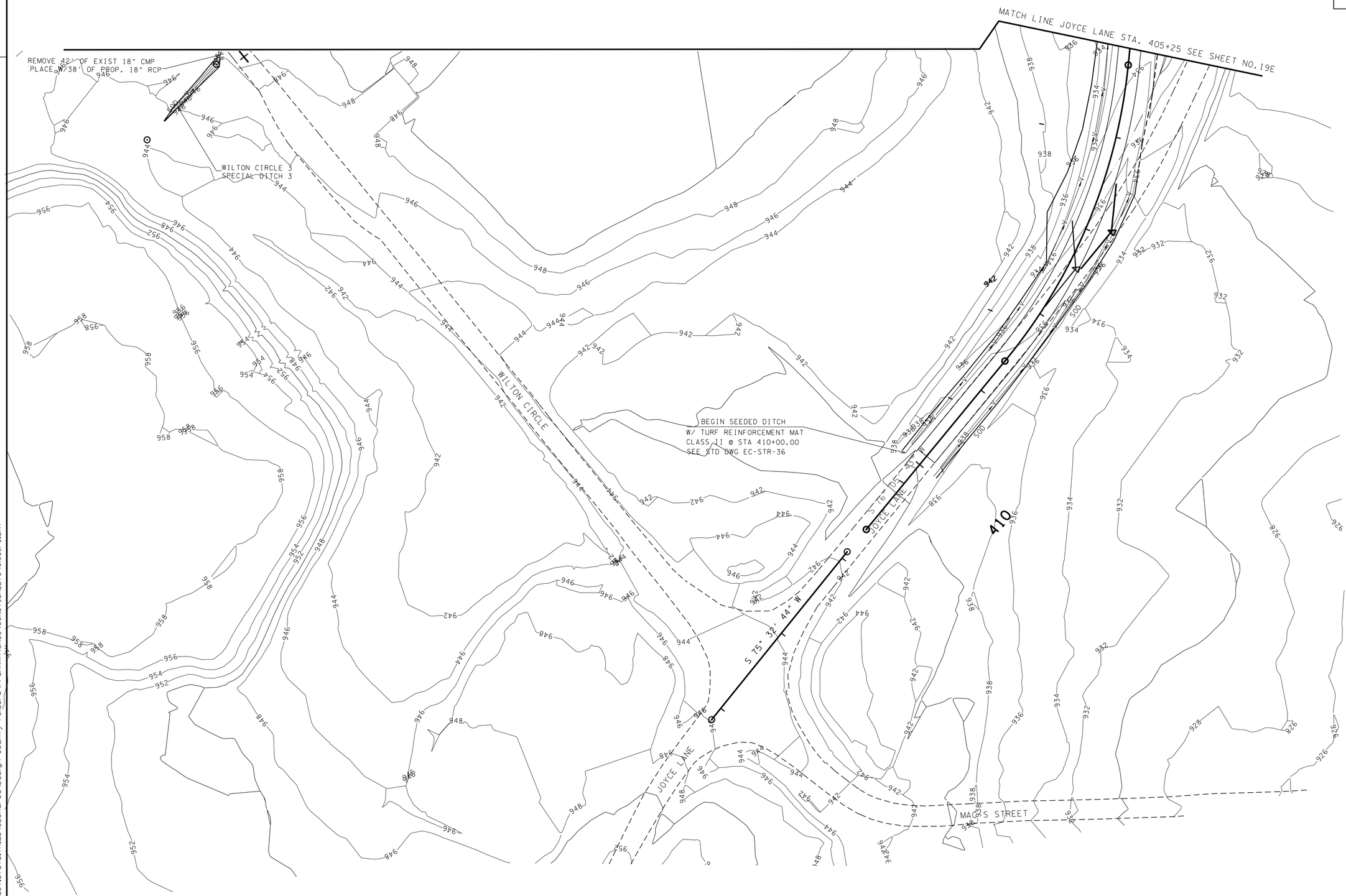
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-50(31)	19G
CONST	2015	STP-50(31)	19G

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



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

JOYCE LANE
STA.405+25 TO STA.413+52

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20

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

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 PAVEMENT (W8-11) AND/OR SHOULDER DROP-OFF (W8-9A), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 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 PAVEMENT AND/OR LOW SHOULDER) 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 PAVEMENT AND/OR LOW SHOULDER) 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 (W8-9A). 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 ONE 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 PAVEMENT AND/OR LOW SHOULDER) 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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TRAFFIC CONTROL NOTES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20A

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	PORTABLE BARRIER RAIL
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TEMPORARY BARRICADE (TYPE III)
	TRAFFIC FLOW
	WORK ZONE
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (CAUTION)
	CHANGEABLE MESSAGE SIGN
	WARNING FLAGS (ON SIGN)
	CHANGEABLE MESSAGE SIGN

SIGNS (CONSTRUCTION) 712-06

QUANTITY	M.U.T.C.D. NO.	DESCRIPTION	SIZE IN X IN		ITEM NO. 712-06 (S.F.)	REMARKS
12	(G20-2)	END ROAD WORK	36	18	54	*
2	(M1-4)	US-64	24	24	8	
2	(M3-1)	NORTH SIGN	24	12	4	
2	(M4-3)	BUSINESS	24	12	4	
1	(M6-1 L)	LEFT ARROW	21	15	2.1875	
1	(M6-1 R)	RIGHT ARROW	21	15	2.1875	
4	(R1-1)	STOP SIGN	30	30	25	
4	(R1-3P)	ALL WAY	30	12	10	
9	(R11-2)	ROAD CLOSED	48	30	90	*
2	(R11-3A)	ROAD CLOSED LOCAL TRAFFIC ONLY	48	30	20	
4	(W3-1)	STOP AHEAD SYMBOL	30	30	25	
5	(W20-1)	ROAD WORK AHEAD	36	36	45	*
2	(W20-1)	ROAD WORK 1 MILE	36	36	18	*
6	(W20-1)	ROAD WORK 1/2 MILE	36	36	54	*
6	(W20-1)	ROAD WORK 1000 FT	36	36	54	*
4	(W20-1)	ROAD WORK 500 FT	36	36	36	
2	(W20-3)	ROAD CLOSED AHEAD	36	36	18	*
1	(W24-1 R)	RIGHT DOUBLE REVERSE CURVE(1 LANE)	36	36	9	
* SIGNS TO BE USED IN PHASE 1 AND PHASE 2.						
					478	TOTAL

SEE FIGURE 6F-1 OF FIGURES SHOWN IN CURRENT M.U.T.C.D. THIS CONSTRUCTION SIGNING IS TO BE CONSTRUCTED AS A MINIMUM. OTHER SIGNS AS DIRECTED BY THE ENGINEER MAY BE REQUIRED DURING DIFFERENT PHASES.

TEMPORARY TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	1771	L.F.
	712-05.03	WARNING LIGHTS (TYPE C)	2	EACH
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	125	EACH
1.)	712-07.03	TEMPORARY BARRICADES (TYPE III)	240	L.F.
	712-08.03	ARROW BOARD (TYPE C)	1	EACH
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	2	EACH
2), 3)	716-01.11	RAISED PVMT MARKERS (BI-DIRECTIONAL) (1 COLOR LENS)	47	EACH
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	1.0	L.M.
	716-05.05	PLASTIC PAVEMENT MARKING (STOP LINE)	146	L.F.

FOOTNOTE

1) QTY INCLUDED IS TO BE USED FOR PHASE 1 AND PHASE 2.

2) MISSING RAISED PAVEMENT MARKERS SHALL BE REPLACED: A) AT LEAST MONTHLY OR B) AT THE INSTRUCTION OF THE ENGINEER.

3) ALL RAISED PAVEMENT MARKERS SHALL BE REMOVED BEFORE PLACEMENT OF THE FINAL PAVEMENT SURFACE. THE COST OF REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR RAISED PAVEMENT MARKERS.

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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	STP-50(31)	20B

SPECIAL NOTES

REFER TO SHEET 17Z FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

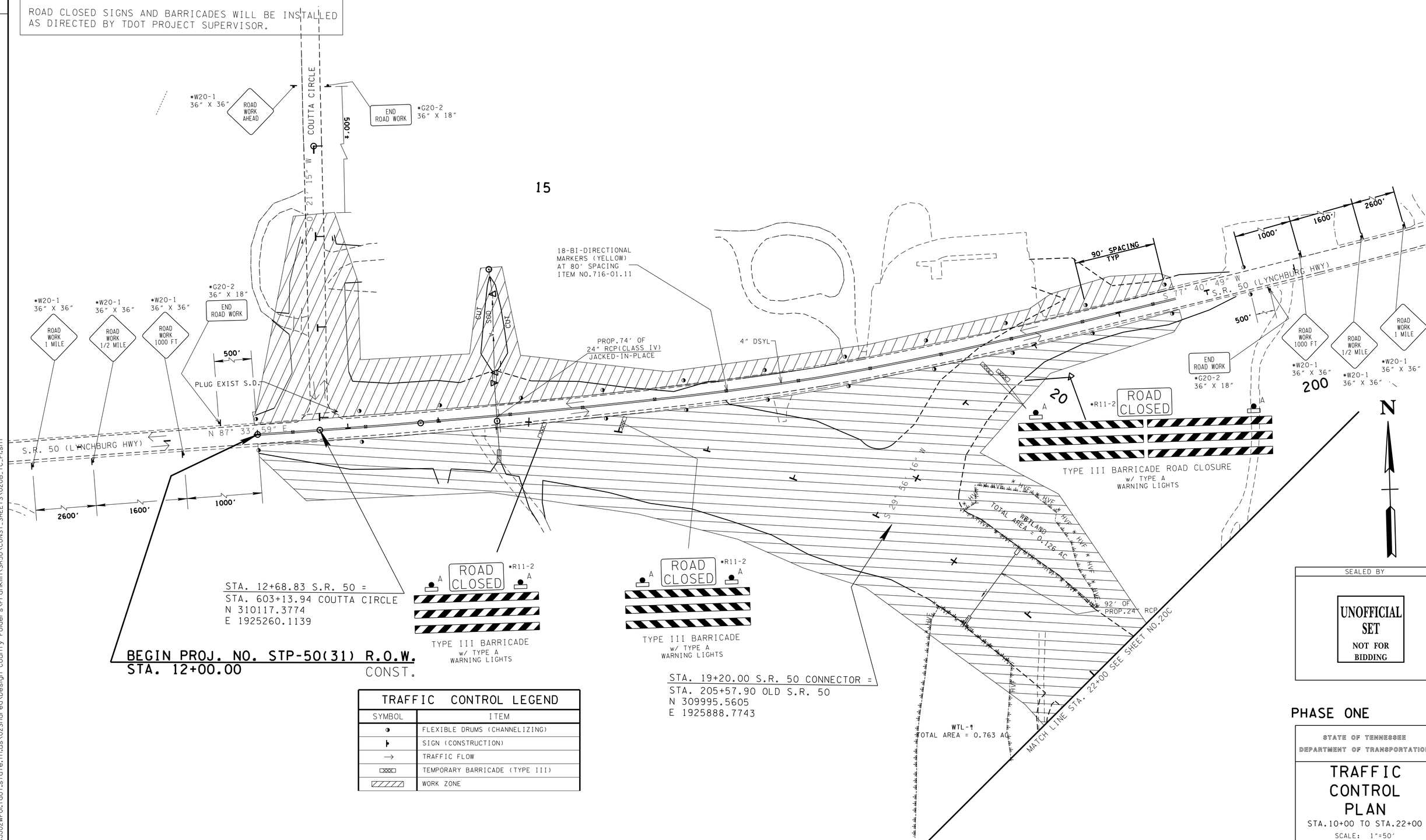
THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLAND WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

ROAD CLOSED SIGNS AND BARRICADES WILL BE INSTALLED AS DIRECTED BY TDOT PROJECT SUPERVISOR.

PHASE NOTES

1. PLACE TRAFFIC CONTROL MEASURES.
2. BUILD PROPOSED ROADWAY.

*-TO BE USED IN PHASE 1 AND PHASE 2.



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TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
◑	FLEXIBLE DRUMS (CHANNELIZING)
▶	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
⊠	TEMPORARY BARRICADE (TYPE III)
▨	WORK ZONE

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PHASE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.10+00 TO STA.22+00

SCALE: 1"=50'

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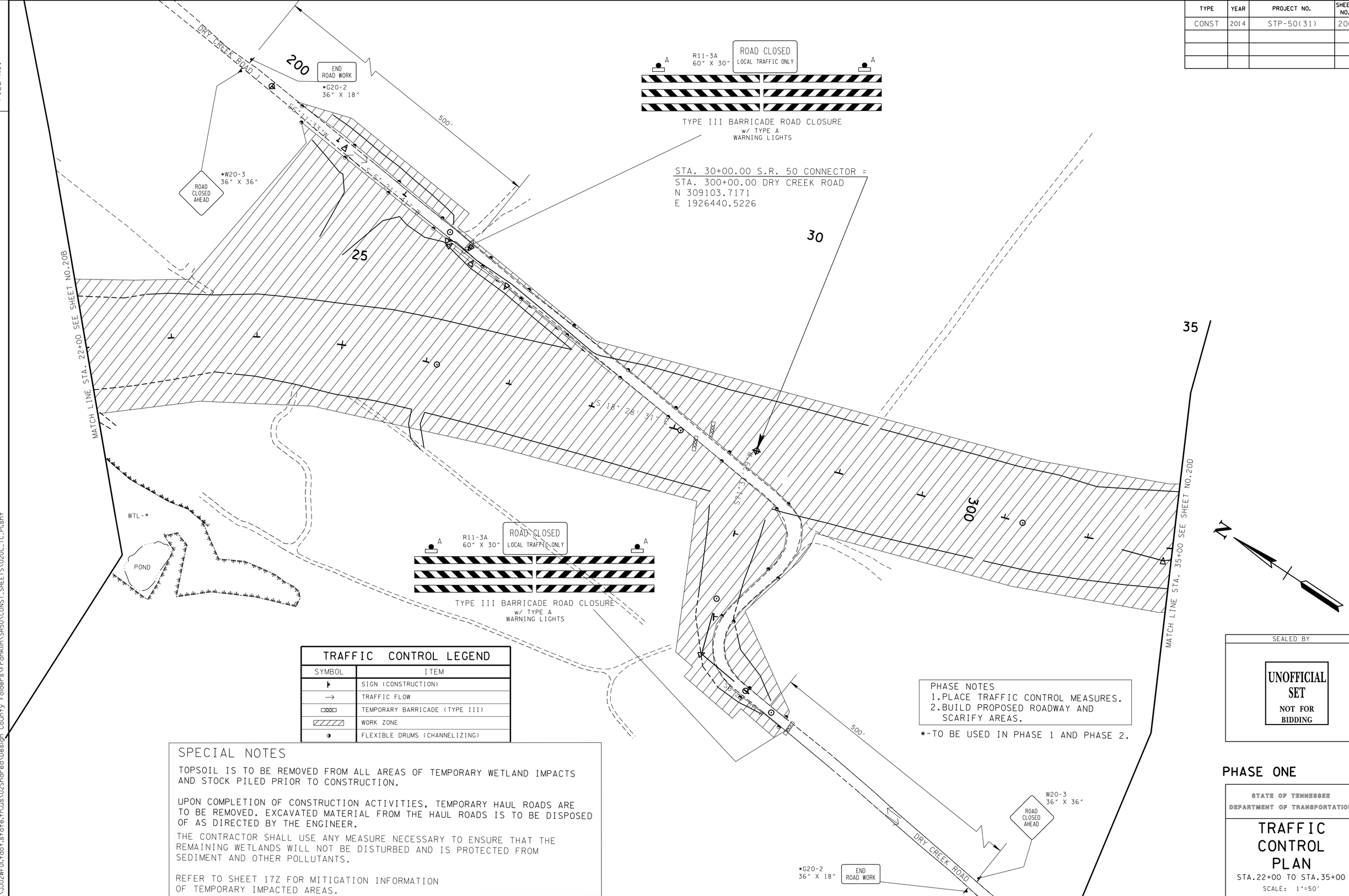
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2014	STP-50(31)	20C



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	TEMPORARY BARRICADE (TYPE III)
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)

SPECIAL NOTES

TOPSOIL IS TO BE REMOVED FROM ALL AREAS OF TEMPORARY WETLAND IMPACTS AND STOCK PILED PRIOR TO CONSTRUCTION.

UPON COMPLETION OF CONSTRUCTION ACTIVITIES, TEMPORARY HAUL ROADS ARE TO BE REMOVED. EXCAVATED MATERIAL FROM THE HAUL ROADS IS TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLANDS WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO SHEET 17Z FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

PHASE NOTES
1. PLACE TRAFFIC CONTROL MEASURES.
2. BUILD PROPOSED ROADWAY AND SCARIFY AREAS.

*-TO BE USED IN PHASE 1 AND PHASE 2.

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PHASE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.22+00 TO STA.35+00

SCALE: 1"=50'

23-OCT-2014 11:50
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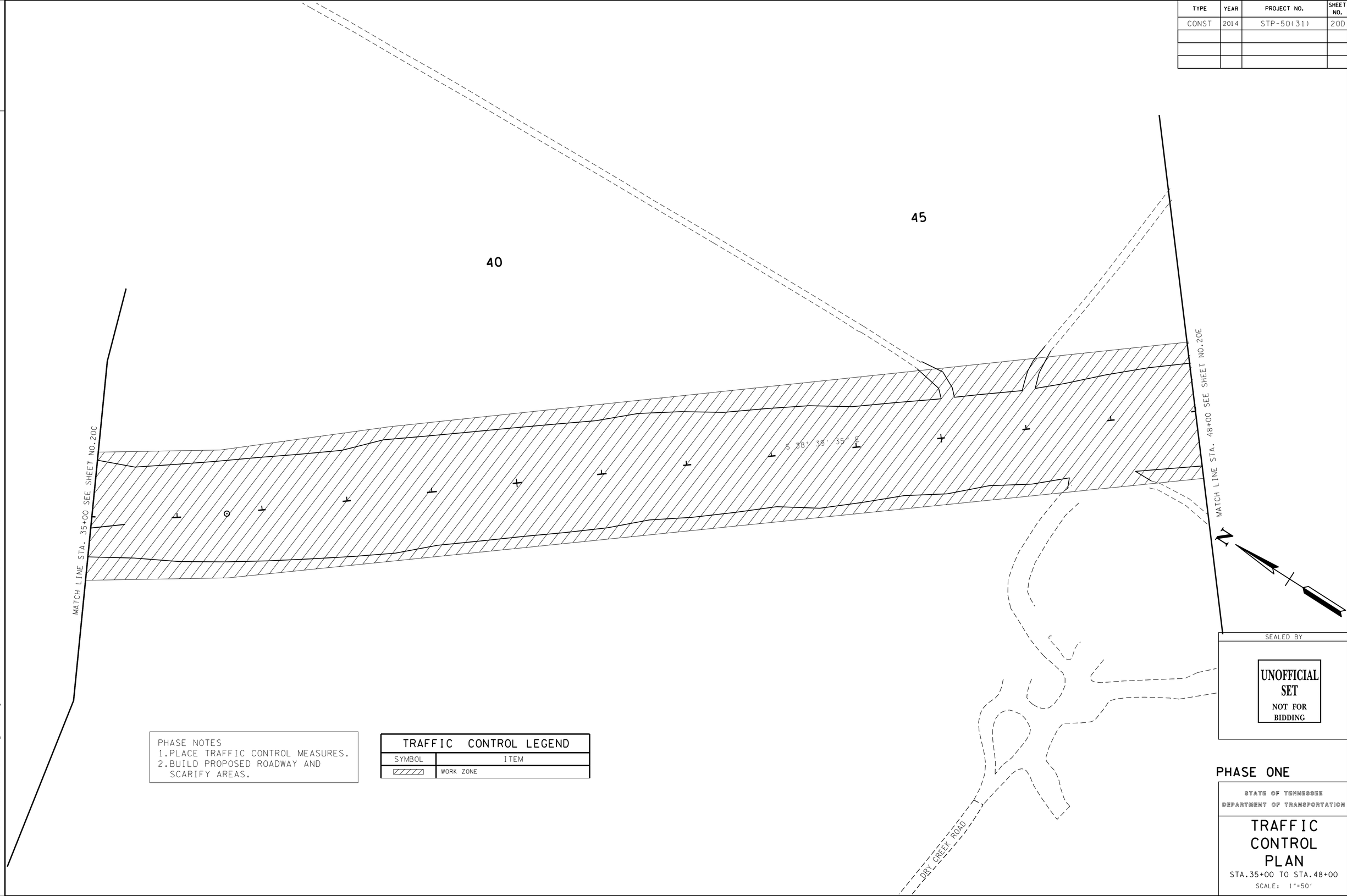
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2014	STP-50(31)	20D

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



PHASE NOTES
1.PLACE TRAFFIC CONTROL MEASURES.
2.BUILD PROPOSED ROADWAY AND SCARIFY AREAS.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE

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PHASE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.35+00 TO STA.48+00

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20E

SPECIAL NOTES

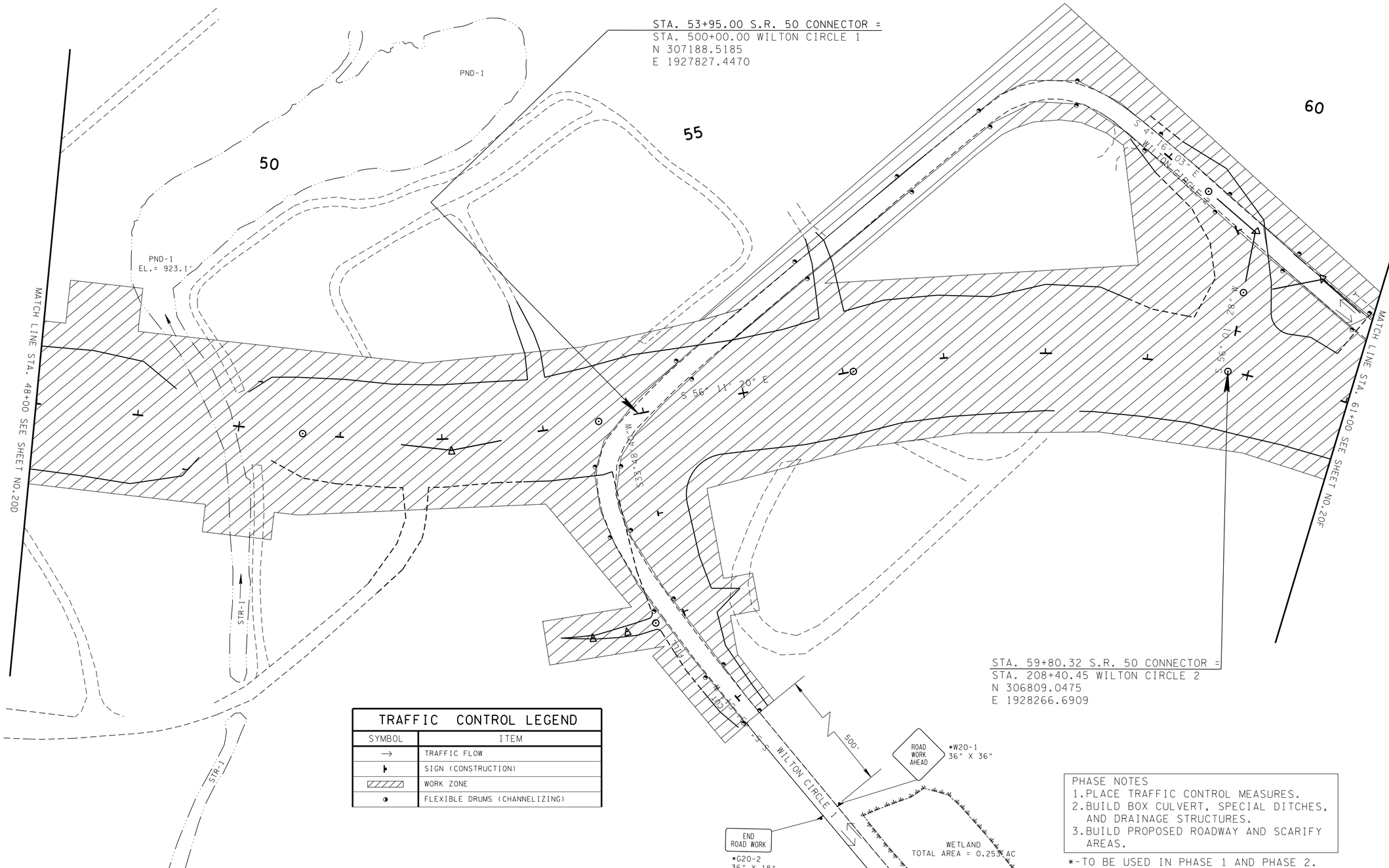
ANY WORK WITHIN THE WETLAND/STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/ BRIDGE CONSTRUCTION ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE WETLAND/STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-1 AND PND-1 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
→	TRAFFIC FLOW
	SIGN (CONSTRUCTION)
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)

PHASE NOTES
1. PLACE TRAFFIC CONTROL MEASURES.
2. BUILD BOX CULVERT, SPECIAL DITCHES, AND DRAINAGE STRUCTURES.
3. BUILD PROPOSED ROADWAY AND SCARIFY AREAS.

*-TO BE USED IN PHASE 1 AND PHASE 2.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.48+00 TO STA.61+00

SCALE: 1"=50'

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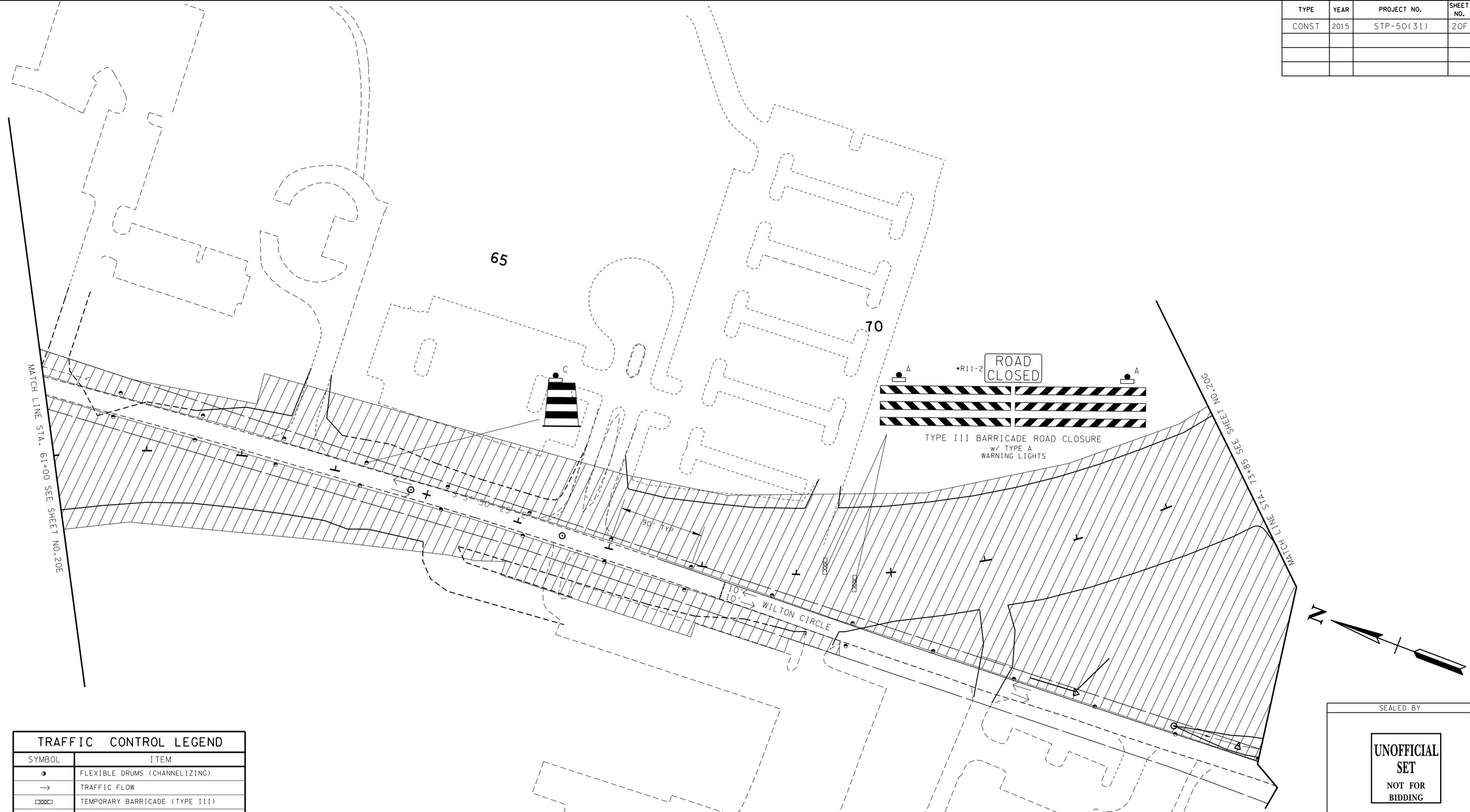
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20F



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
◑	FLEXIBLE DRUMS (CHANNELIZING)
→	TRAFFIC FLOW
▭	TEMPORARY BARRICADE (TYPE III)
▨	WORK ZONE

PHASE NOTES
1. PLACE TRAFFIC CONTROL MEASURES.
2. BUILD RETAINING WALL, SPECIAL DITCHES, AND DRAINAGE STRUCTURES.
3. BUILD PROPOSED ROADWAY AND SCARIFY AREAS.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.61+00 TO STA.73+85

SCALE: 1"=50'

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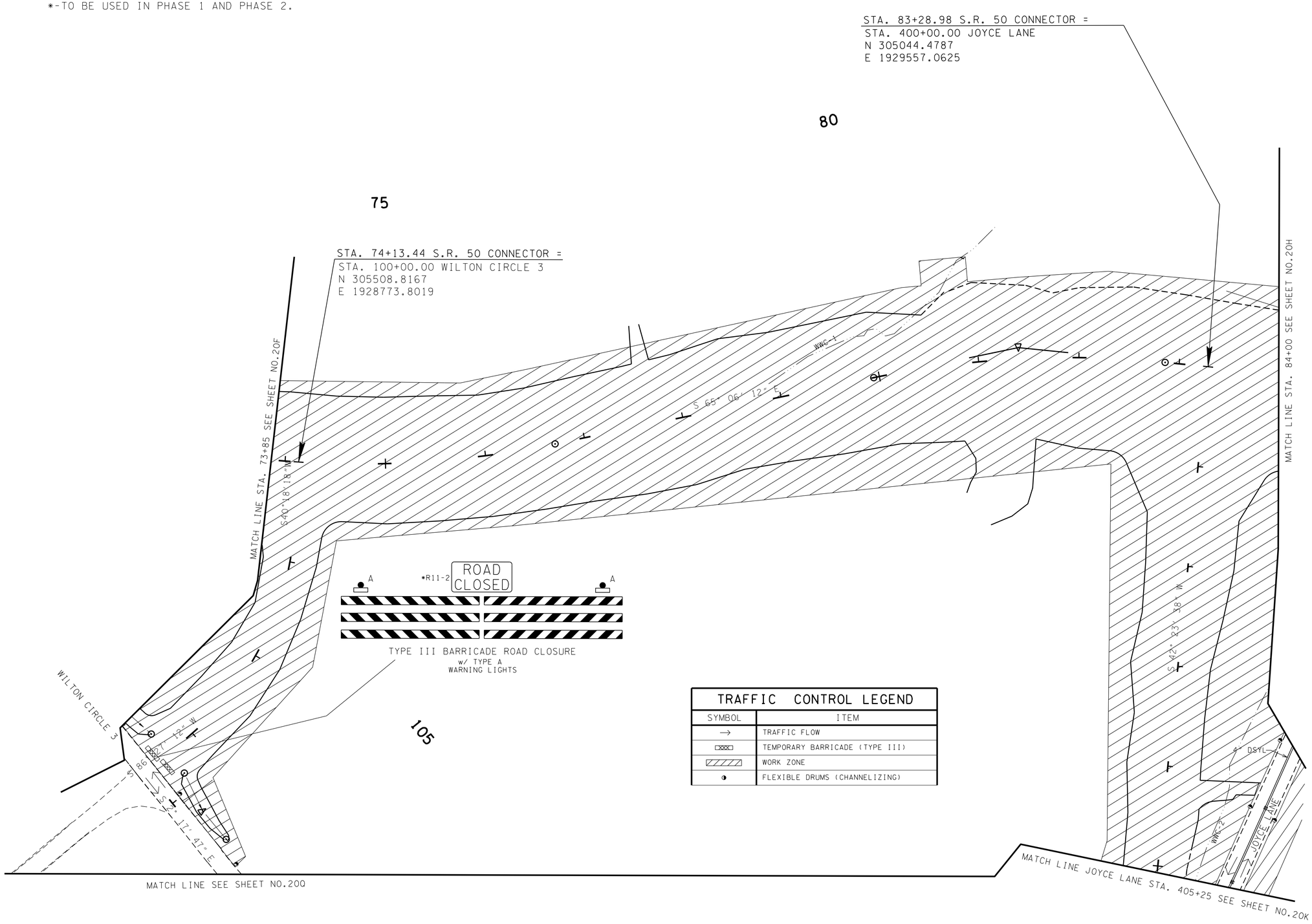
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20G

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

PHASE NOTES
1.PLACE TRAFFIC CONTROL MEASURES.
2.BUILD PROPOSED ROADWAY.

*-TO BE USED IN PHASE 1 AND PHASE 2.



TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
→	TRAFFIC FLOW
	TEMPORARY BARRICADE (TYPE III)
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.73+85 TO STA.84+00

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20H

SPECIAL NOTES

ANY WORK WITHIN THE WETLAND/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 WETLAND/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 THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

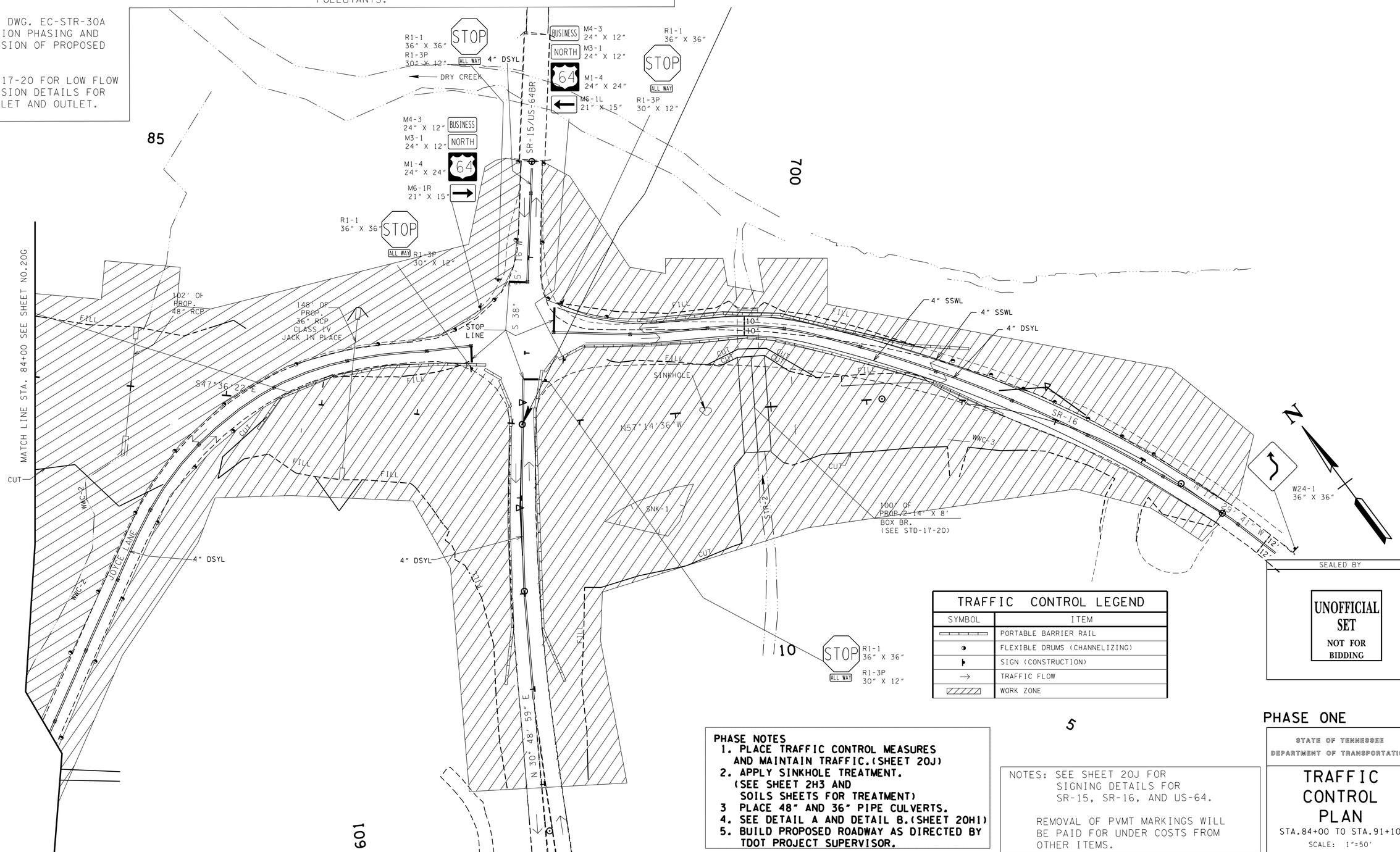
REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-2 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28 S.R. 50 CONNECTOR =

STA. 702+74.57 S.R.15(DAVID CROCKETT HWY)=
STA. 12+60.00 S.R.16=
STA. 604+76.70 S.R.15 SOUTH(DAVID CROCKETT HWY)=
N 304652.5516
E 1929986.3677



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	PORTABLE BARRIER RAIL
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	TRAFFIC FLOW
	WORK ZONE

PHASE NOTES
1. PLACE TRAFFIC CONTROL MEASURES AND MAINTAIN TRAFFIC.(SHEET 20J)
2. APPLY SINKHOLE TREATMENT. (SEE SHEET 2H3 AND SOILS SHEETS FOR TREATMENT)
3 PLACE 48" AND 36" PIPE CULVERTS.
4. SEE DETAIL A AND DETAIL B.(SHEET 20H1)
5. BUILD PROPOSED ROADWAY AS DIRECTED BY TDOT PROJECT SUPERVISOR.

NOTES: SEE SHEET 20J FOR SIGNING DETAILS FOR SR-15, SR-16, AND US-64.

REMOVAL OF PVMT MARKINGS WILL BE PAID FOR UNDER COSTS FROM OTHER ITEMS.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.84+00 TO STA.91+10

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20H1

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

SPECIAL NOTES

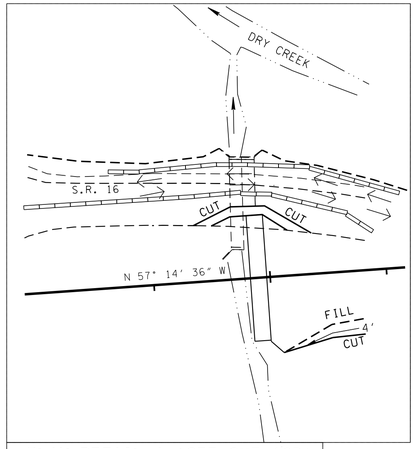
ANY WORK WITHIN THE WETLAND/STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/ BRIDGE CONSTRUCTION ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE WETLAND/STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-2 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

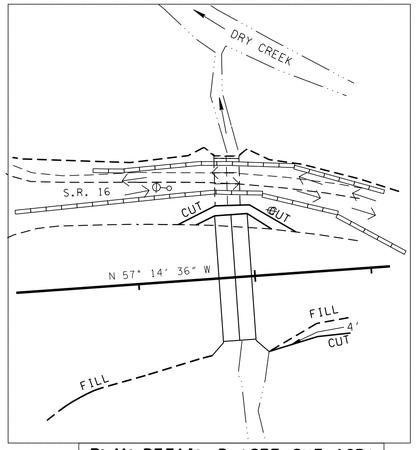
REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.



PLAN DETAIL A (SEE SHT 16D)

PLAN DETAIL A (SEE SHT 16D)

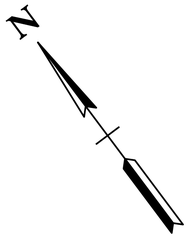
1. PLACE EPSC MEASURES & CONSTRUCT ROAD ON NORTH END & 4′-TRAPEZOIDAL DITCH ON SOUTH END.
2. DETOUR TRAFFIC.
3. USE STD. DWG EC-STR-30A FOR IN-STREAM DIVERSION INTO EXISTING WEST BARREL CULVERT.
4. REMOVE 38′ OF EXISTING EAST BARREL CULVERT.
5. BUILD PROPOSED EAST BARREL CULVERT.



PLAN DETAIL B (SEE SHT 16D)

PLAN DETAIL B (SEE SHT 16D)

1. PLACE EPSC MEASURES.
2. USE STD. DWG EC-STR-30A FOR IN-STREAM DIVERSION INTO PROPOSED EAST BARREL AND EXISTING EAST BARREL CULVERT.
3. REMOVE 38′ OF EXISTING WEST BARREL CULVERT.
4. BUILD PROPOSED WEST BARREL CULVERT.



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	PORTABLE BARRIER RAIL
→	TRAFFIC FLOW

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.84+00 TO STA.91+10

SCALE: 1"=50′

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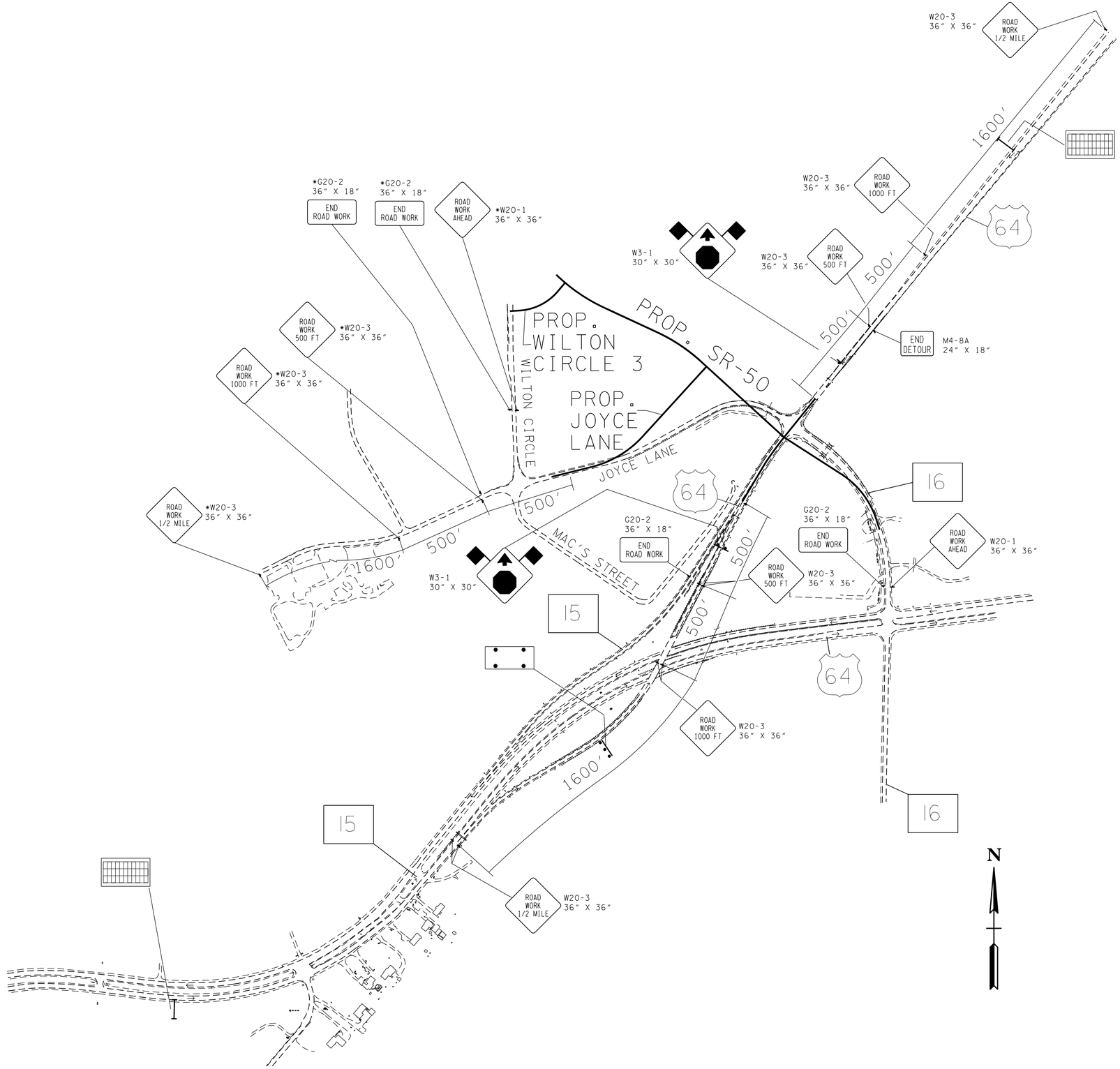
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20J



*SIGNS TO BE USED IN PHASE 1 AND PHASE 2.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	FLEXIBLE DRUMS (CHANNELIZING)
	ARROW BOARD TYPE C (CAUTION)
	WARNING FLAGS (ON SIGN)
	CHANGEABLE MESSAGE SIGN
	CHANGEABLE MESSAGE SIGN

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

SCALE: 1"=600'

SEE SHEET 20H FOR SR-15/US-64BR & SR-16 INTERSECTION

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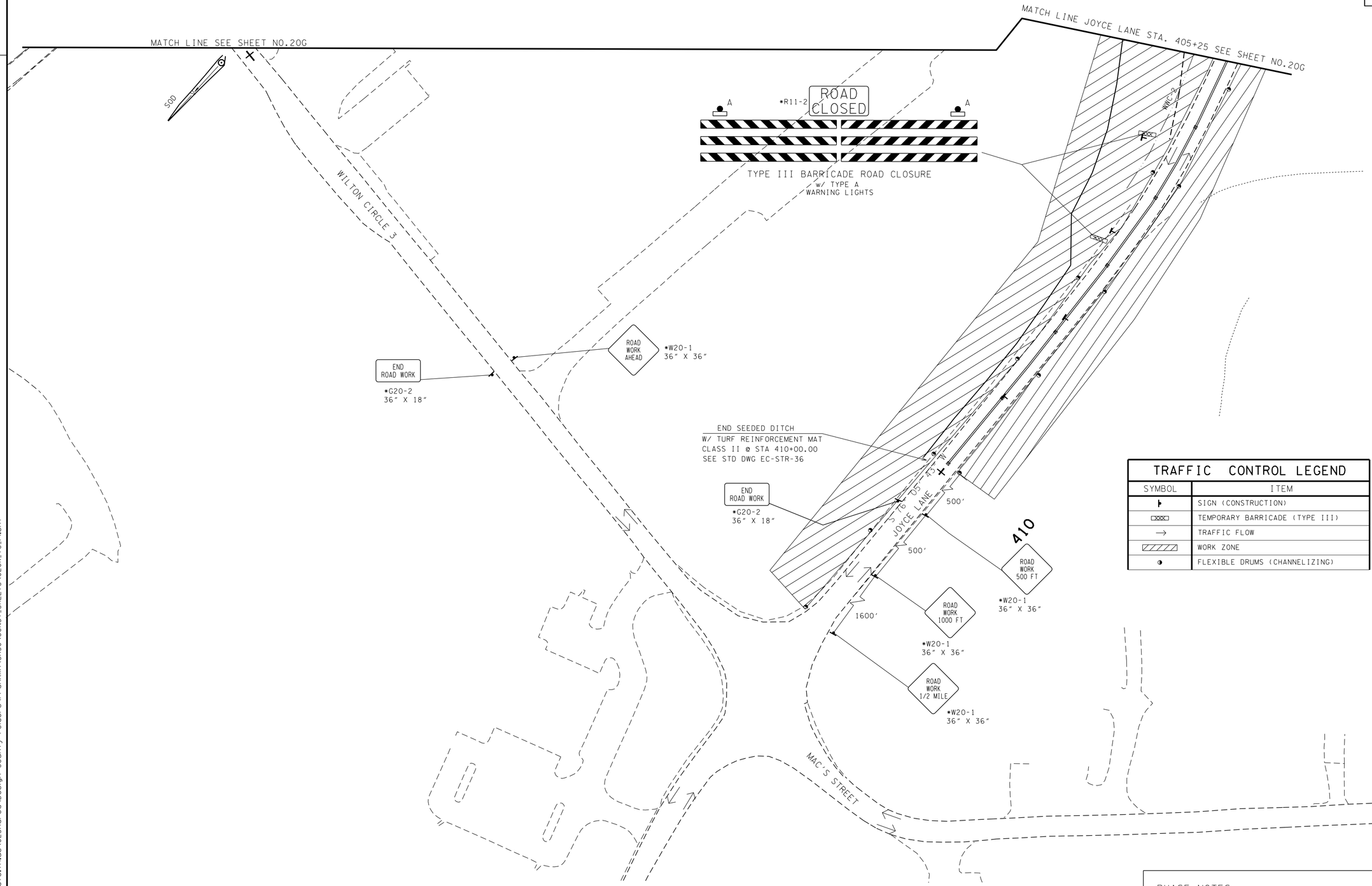
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20K



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▶	SIGN (CONSTRUCTION)
▭	TEMPORARY BARRICADE (TYPE III)
→	TRAFFIC FLOW
▨	WORK ZONE
◑	FLEXIBLE DRUMS (CHANNELIZING)

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE ONE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

JOYCE LANE
STA.405+25 TO STA.413+52
SCALE: 1"=50'

PHASE NOTES
1. PLACE TRAFFIC CONTROL MEASURES.
2. BUILD PROPOSED ROADWAY AND DRAINAGE STRUCTURES.

*-TO BE USED IN PHASE 1 AND PHASE 2.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20L

SPECIAL NOTES

REFER TO SHEET 17Z FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLAND WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

PHASE NOTES

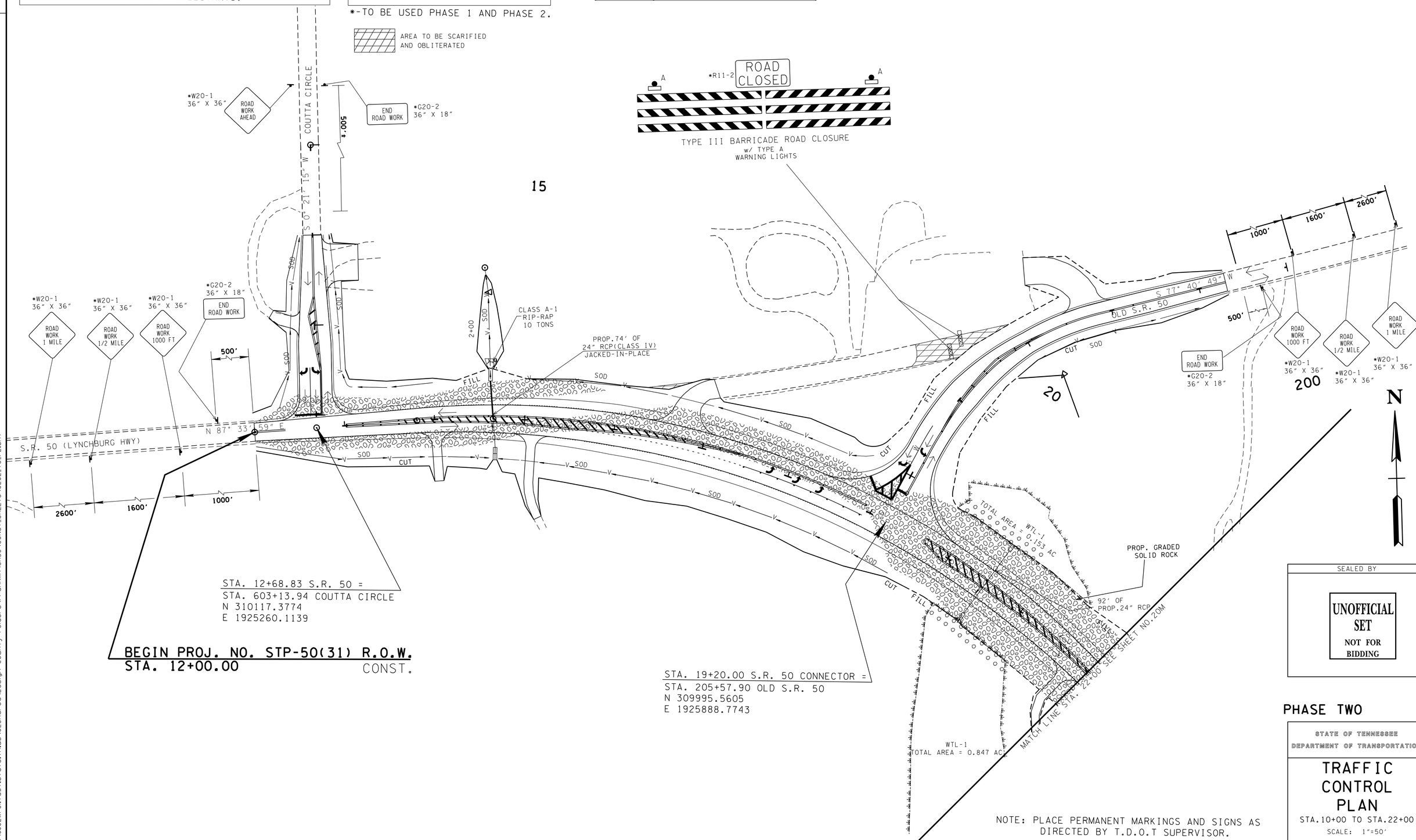
1.) PLACE TRAFFIC CONTROL MEASURES.
2.) FINISH PROPOSED SR-50 AND OLD SR-50. (SEE NOTE)
3.) DETOUR TRAFFIC TO PROPOSED SR-50.
4.) SCARIFY AREAS.

*-TO BE USED PHASE 1 AND PHASE 2.

AREA TO BE SCARIFIED AND OBLITERATED

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	TEMPORARY BARRICADE (TYPE III)



STA. 12+68.83 S.R. 50 =
STA. 603+13.94 COUTTA CIRCLE
N 310117.3774
E 1925260.1139

BEGIN PROJ. NO. STP-50(31) R.O.W.
STA. 12+00.00 CONST.

STA. 19+20.00 S.R. 50 CONNECTOR =
STA. 205+57.90 OLD S.R. 50
N 309995.5605
E 1925888.7743

NOTE: PLACE PERMANENT MARKINGS AND SIGNS AS DIRECTED BY T.D.O.T SUPERVISOR.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.10+00 TO STA.22+00

SCALE: 1"=50'

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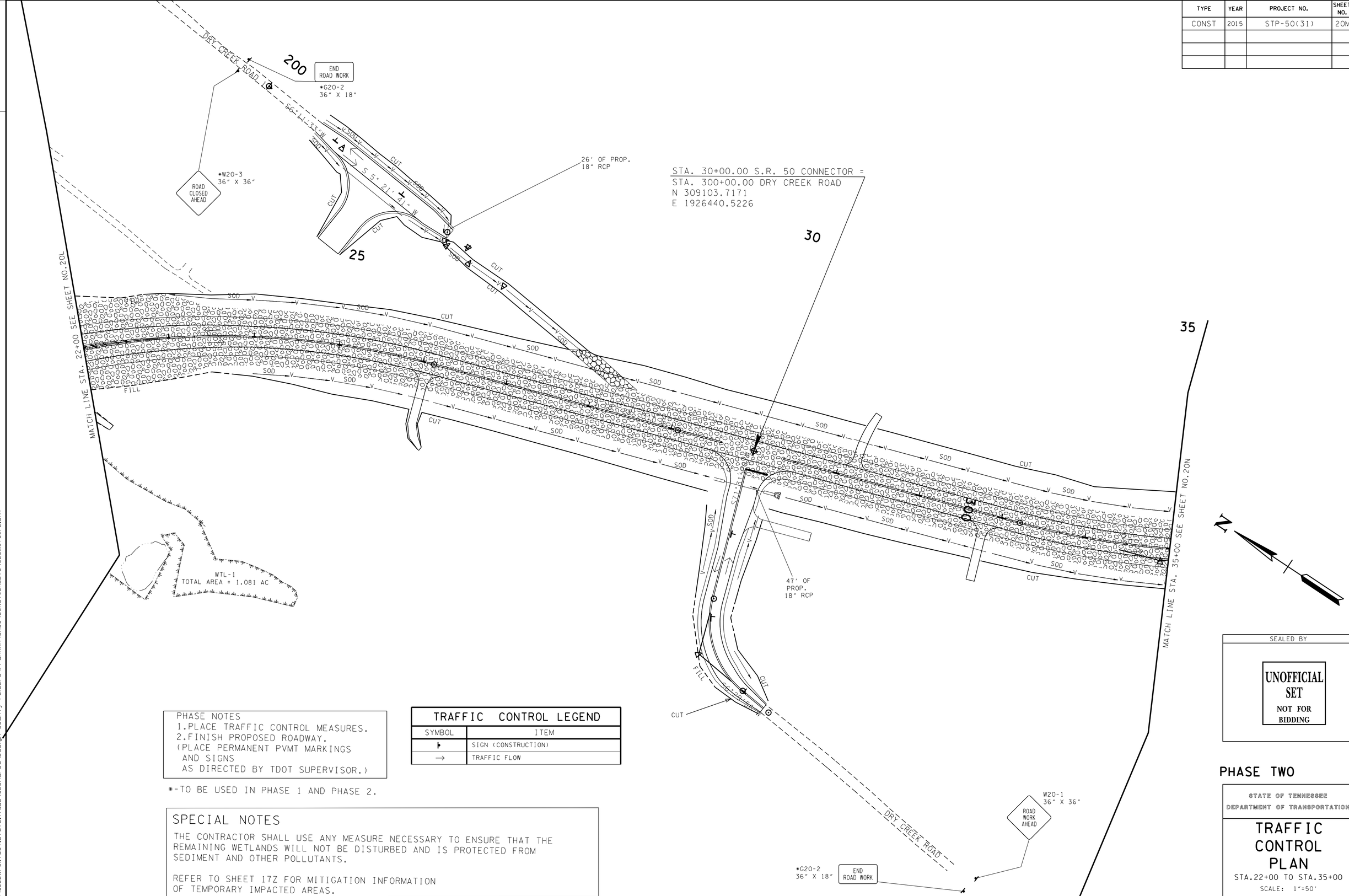
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20M



PHASE NOTES
1.PLACE TRAFFIC CONTROL MEASURES.
2.FINISH PROPOSED ROADWAY.
(PLACE PERMANENT PVMT MARKINGS
AND SIGNS
AS DIRECTED BY TDOT SUPERVISOR.)

*-TO BE USED IN PHASE 1 AND PHASE 2.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▶	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW

SPECIAL NOTES

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE REMAINING WETLANDS WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO SHEET 17Z FOR MITIGATION INFORMATION OF TEMPORARY IMPACTED AREAS.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.22+00 TO STA.35+00

SCALE: 1"=50'

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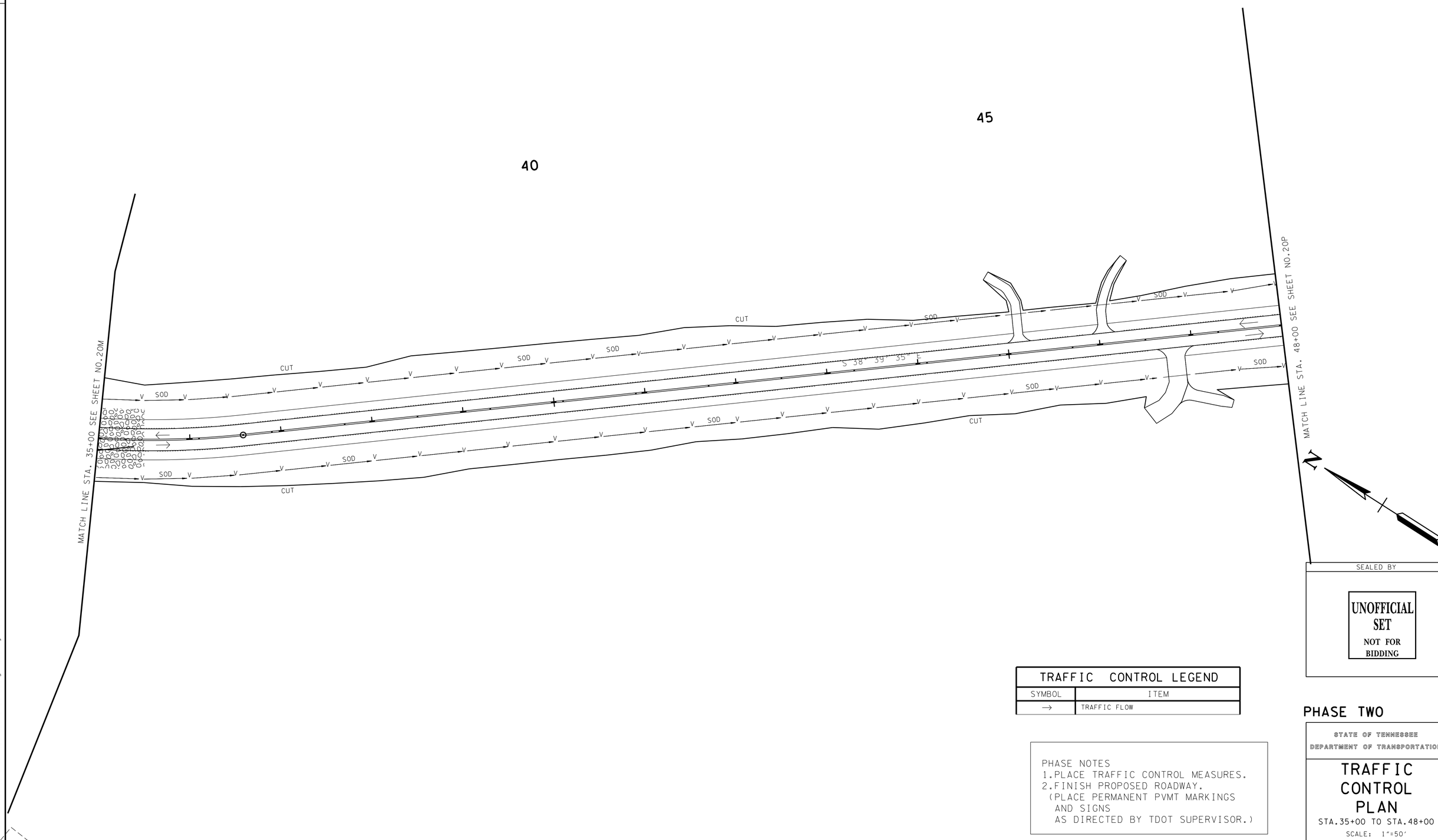
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2014	STP-50(31)	20N

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



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
→	TRAFFIC FLOW

PHASE NOTES
1.PLACE TRAFFIC CONTROL MEASURES.
2.FINISH PROPOSED ROADWAY.
(PLACE PERMANENT PVMT MARKINGS
AND SIGNS
AS DIRECTED BY TDOT SUPERVISOR.)

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.35+00 TO STA.48+00

SCALE: 1"=50'

23-OCT-2014 11:50
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20P

SPECIAL NOTES

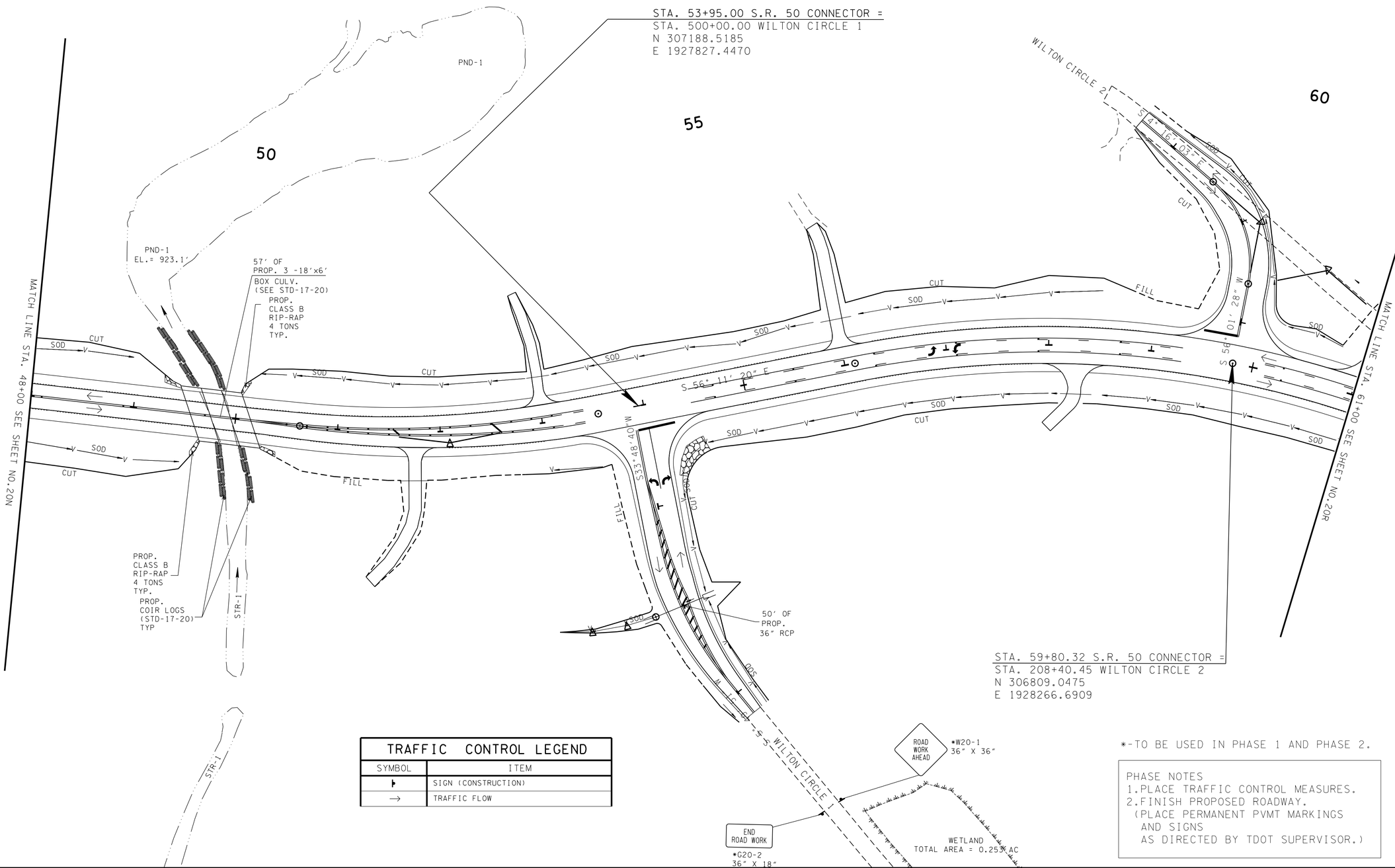
ANY WORK WITHIN THE WETLAND/STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/ BRIDGE CONSTRUCTION ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE WETLAND/STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-1 AND PND-1 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▶	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW

*-TO BE USED IN PHASE 1 AND PHASE 2.

PHASE NOTES
1. PLACE TRAFFIC CONTROL MEASURES.
2. FINISH PROPOSED ROADWAY.
(PLACE PERMANENT PVMT MARKINGS AND SIGNS AS DIRECTED BY TDOT SUPERVISOR.)

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.48+00 TO STA.61+00

SCALE: 1"=50'

23-OCT-2014 11:50
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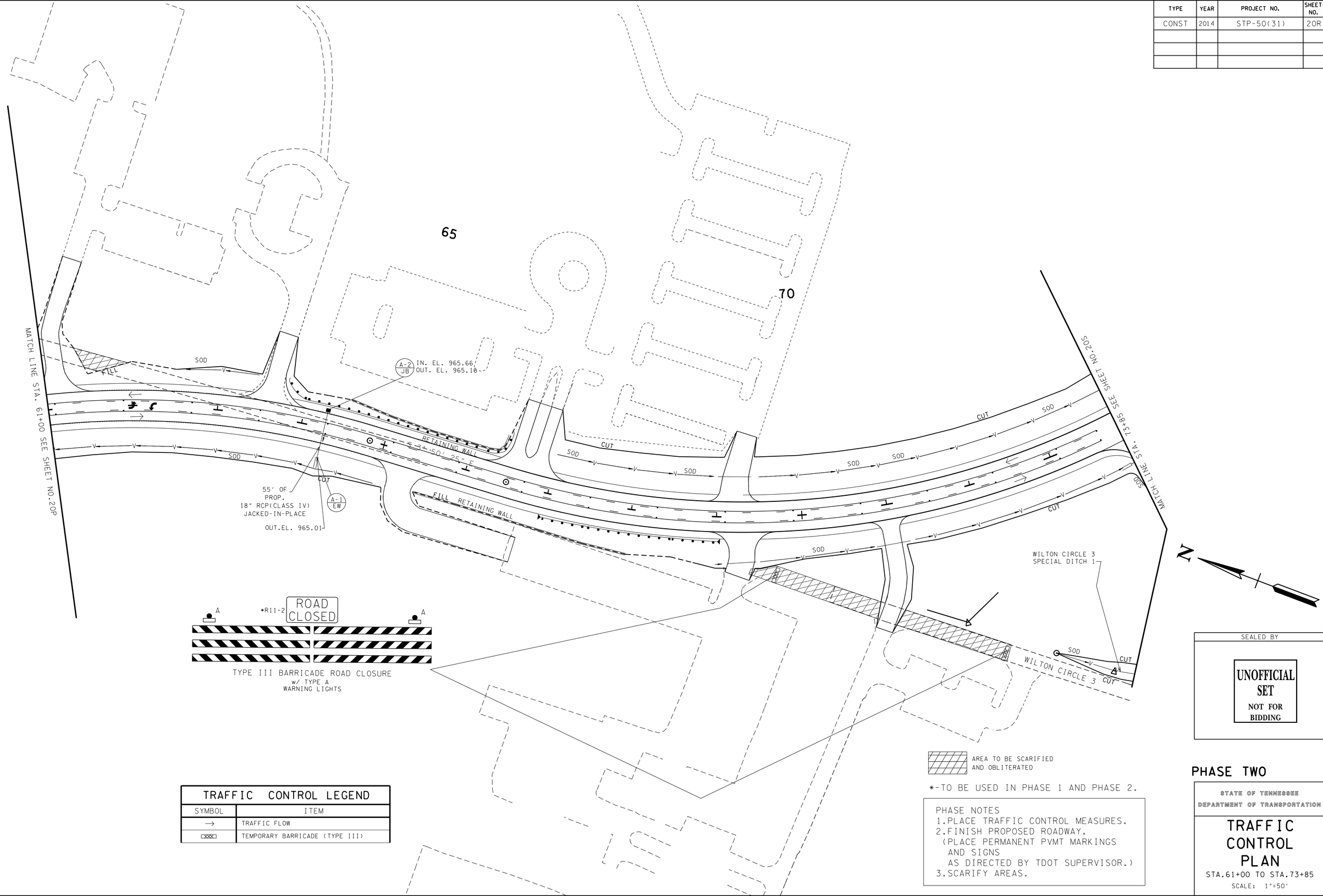
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2014	STP-50(31)	20R



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
→	TRAFFIC FLOW
	TEMPORARY BARRICADE (TYPE III)

*-TO BE USED IN PHASE 1 AND PHASE 2.

PHASE NOTES
1. PLACE TRAFFIC CONTROL MEASURES.
2. FINISH PROPOSED ROADWAY.
(PLACE PERMANENT PVMT MARKINGS
AND SIGNS
AS DIRECTED BY TDOT SUPERVISOR.)
3. SCARIFY AREAS.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.61+00 TO STA.73+85

SCALE: 1"=50'

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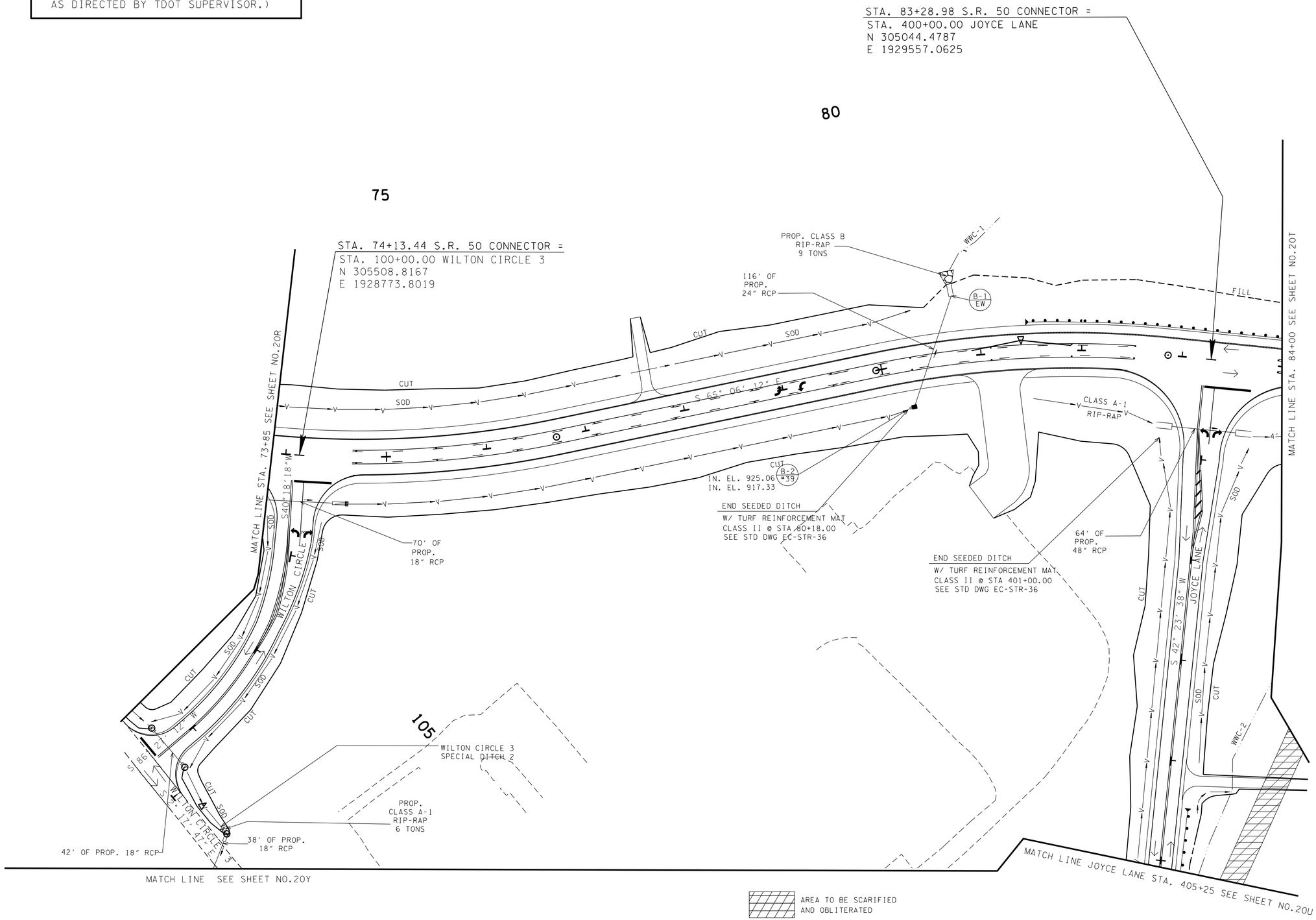
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20S

PHASE NOTES
1. PLACE TRAFFIC CONTROL MEASURES.
2. FINISH PROPOSED ROADWAY AND SCARIFY AREAS.
(PLACE PERMANENT PVMT MARKINGS AND SIGNS AS DIRECTED BY TDOT SUPERVISOR.)



AREA TO BE SCARIFIED AND OBLITERATED

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.73+85 TO STA.84+00

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2014	STP-50(31)	20T

SPECIAL NOTES

ANY WORK WITHIN THE WETLAND/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 WETLAND/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 THE OTHER ITEMS. THE NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR USE WITH EC-STR-31 (ECM-STR-31) AND EC-STR-32 (ECM-STR-32)

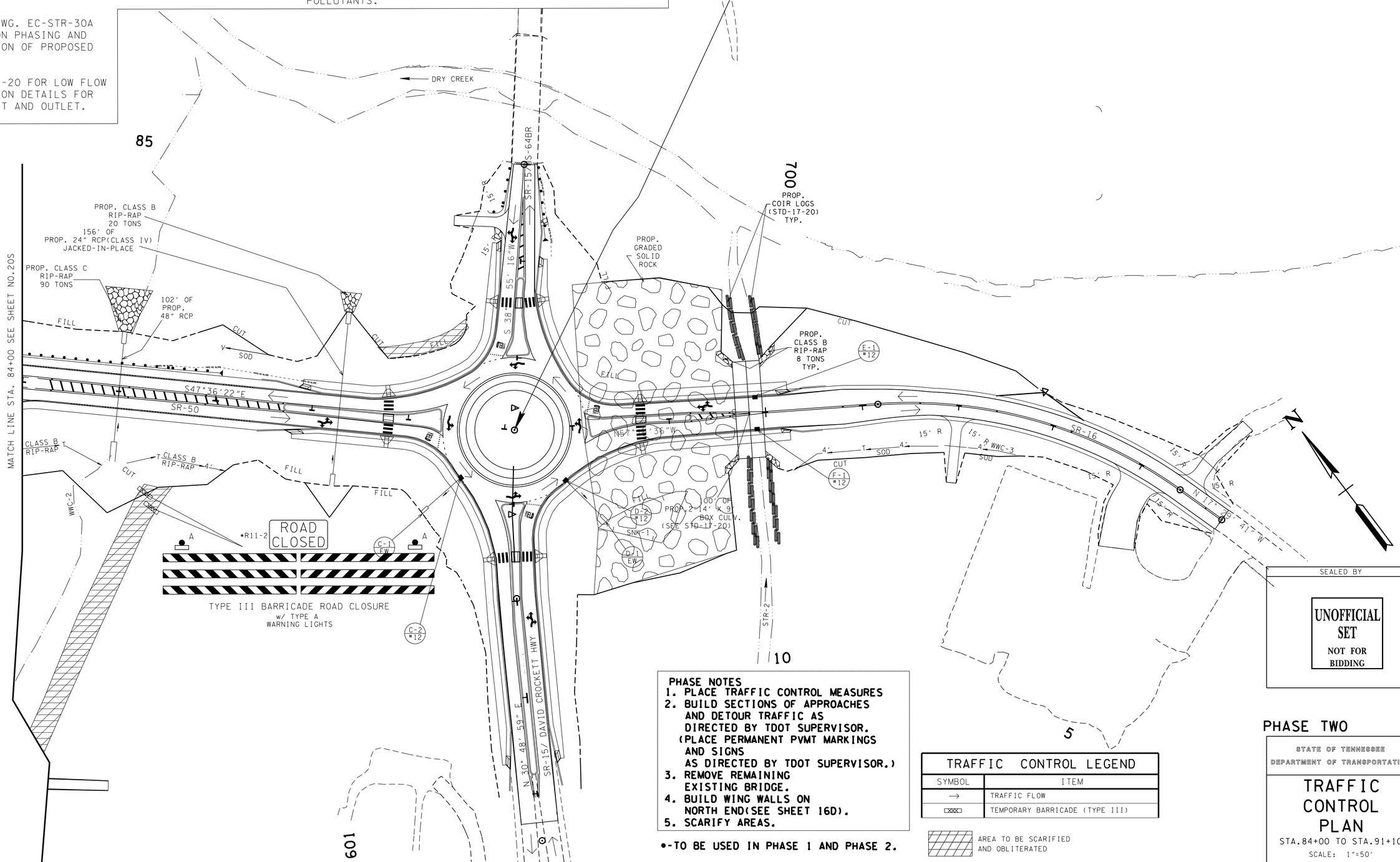
REFER TO STD. DWG. EC-STR-30A FOR CONSTRUCTION PHASING AND CHANNEL DIVERSION OF PROPOSED BOX BRIDGE.

REFER TO STD-17-20 FOR LOW FLOW CHANNEL DIVERSION DETAILS FOR BOX BRIDGE INLET AND OUTLET.

RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STREAM CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING STREAM CHANNEL.VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL TO PREVENT LOSS OF STREAM WITHIN THE RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT THE NON-IMPACTED SECTIONS OF STR-2 WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS.

END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28 S.R. 50 CONNECTOR =
STA. 702+74.57 S.R.15(DAVID CROCKETT HWY)=
STA. 12+60.00 S.R.16=
STA. 604+76.70 S.R.15 SOUTH(DAVID CROCKETT HWY)=
N 304652.5516
E 1929986.3677



PHASE NOTES

1. PLACE TRAFFIC CONTROL MEASURES
2. BUILD SECTIONS OF APPROACHES AND DETOUR TRAFFIC AS DIRECTED BY TDOT SUPERVISOR. (PLACE PERMANENT PVMT MARKINGS AND SIGNS AS DIRECTED BY TDOT SUPERVISOR.)
3. REMOVE REMAINING EXISTING BRIDGE.
4. BUILD WING WALLS ON NORTH END(SEE SHEET 16D).
5. SCARIFY AREAS.

•-TO BE USED IN PHASE 1 AND PHASE 2.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
→	TRAFFIC FLOW
▭	TEMPORARY BARRICADE (TYPE III)

AREA TO BE SCARIFIED AND OBLITERATED

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.84+00 TO STA.91+10

SCALE: 1"=50'

23-OCT-2014 11:50
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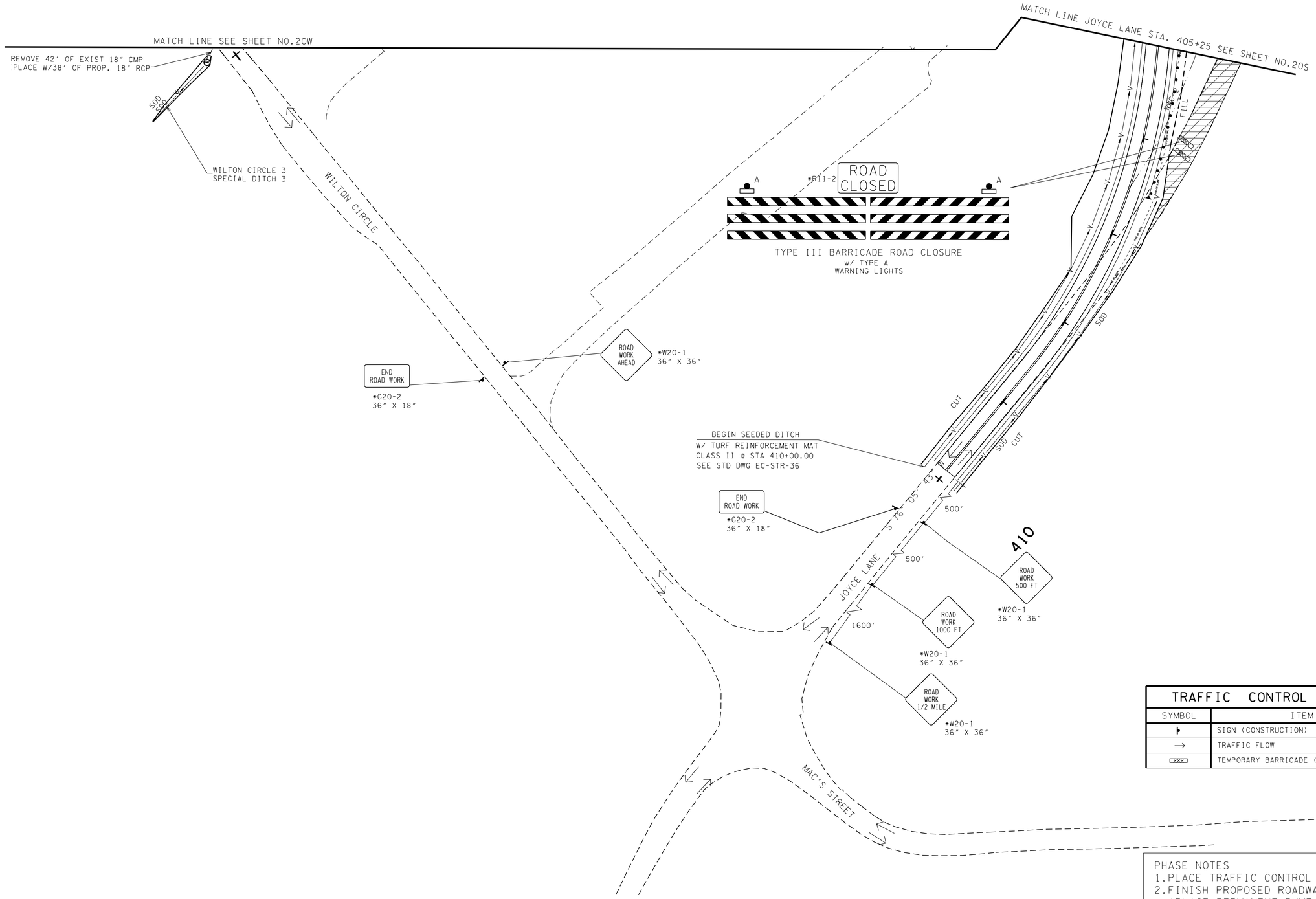
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	20U

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



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
▶	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
▭	TEMPORARY BARRICADE (TYPE III)

AREA TO BE SCARIFIED AND OBLITERATED

PHASE NOTES
1. PLACE TRAFFIC CONTROL MEASURES.
2. FINISH PROPOSED ROADWAY.
(PLACE PERMANENT PVMT MARKINGS AND SIGNS AS DIRECTED BY TDOT SUPERVISOR.)

*-TO BE USED IN PHASE 1 AND PHASE 2.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

PHASE TWO

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

JOYCE LANE
STA.405+25 TO STA.413+52
SCALE: 1"=50'

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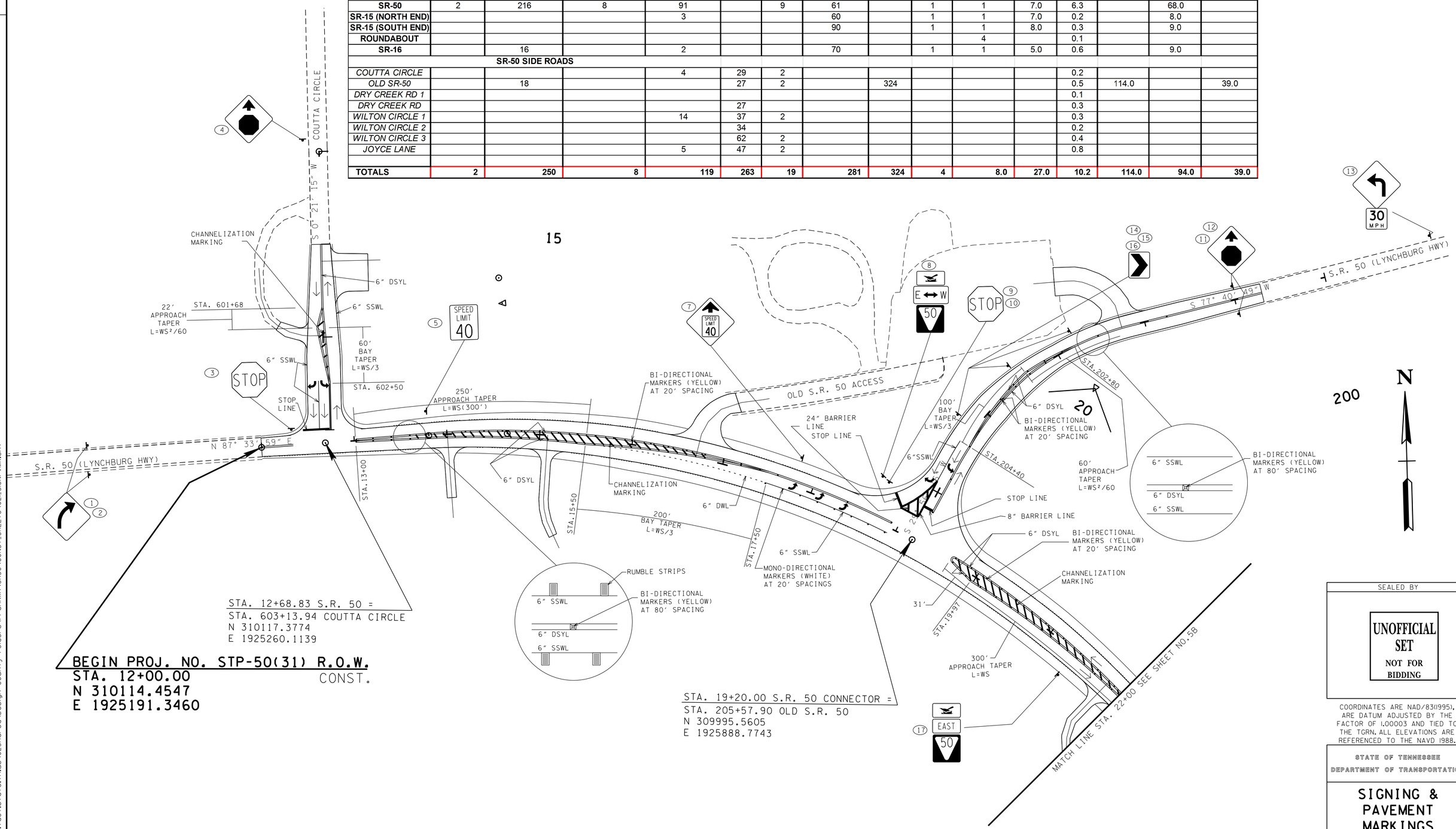
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	21

PAVEMENT MARKING QUANTITIES

LOCATION	PAY ITEMS														
	411-12.02 (L.M.)	716-01.21 (EACH)	716-01.22 (EACH)	716-02.04 (S.Y.)	716-02.05 (L.F.)	716-02.06 (EACH)	716-02.09 (L.F.)	716-02.07 (L.F.)	716-03.09 (EACH)	716-04.01 (EACH)	716-04.12 (S.F.)	716-12.02 (L.M.)	716-12.03 (L.F.)	716-12.05 (L.F.)	716-12.08 (L.F.)
	16" RUMBLE STRIP	SNOW PLW PVMT MRKR (YELLOW)	SNOW PLW PVMT MRKR (WHITE)	CHANNELIZATION STRIPING	STOP LINE	TURN ARROW	LONGITUDINAL CROSSWALK	24" BARRIER	YIELD	STRAIGHT TURN ARROW	YIELD LINE	6" LINE	8" BARRIER LINE	6" DOTTED LINE	12" BARRIER LINE
SR-50	2	216	8	91		9	61		1	1	7.0	6.3		68.0	
SR-15 (NORTH END)				3			60		1	1	7.0	0.2		8.0	
SR-15 (SOUTH END)							90		1	1	8.0	0.3		9.0	
ROUNDABOUT										4		0.1			
SR-16		16		2			70		1	1	5.0	0.6		9.0	
SR-50 SIDE ROADS															
COUTTA CIRCLE				4	29	2						0.2			
OLD SR-50		18			27	2		324				0.5	114.0		39.0
DRY CREEK RD 1												0.1			
DRY CREEK RD					27							0.3			
WILTON CIRCLE 1				14	37	2						0.3			
WILTON CIRCLE 2					34							0.2			
WILTON CIRCLE 3					62	2						0.4			
JOYCE LANE				5	47	2						0.8			
TOTALS	**2**	**250**	**8**	**119**	**263**	**19**	**281**	**324**	**4**	**8.0**	**27.0**	**10.2**	**114.0**	**94.0**	**39.0**



STA. 12+68.83 S.R. 50 =
STA. 603+13.94 COUTTA CIRCLE
N 310117.3774
E 1925260.1139

BEGIN PROJ. NO. STP-50(31) R.O.W.
STA. 12+00.00 CONST.
N 310114.4547
E 1925191.3460

STA. 19+20.00 S.R. 50 CONNECTOR =
STA. 205+57.90 OLD S.R. 50
N 309995.5605
E 1925888.7743

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKINGS

STA.10+00 TO STA.22+00

SCALE: 1"=50'

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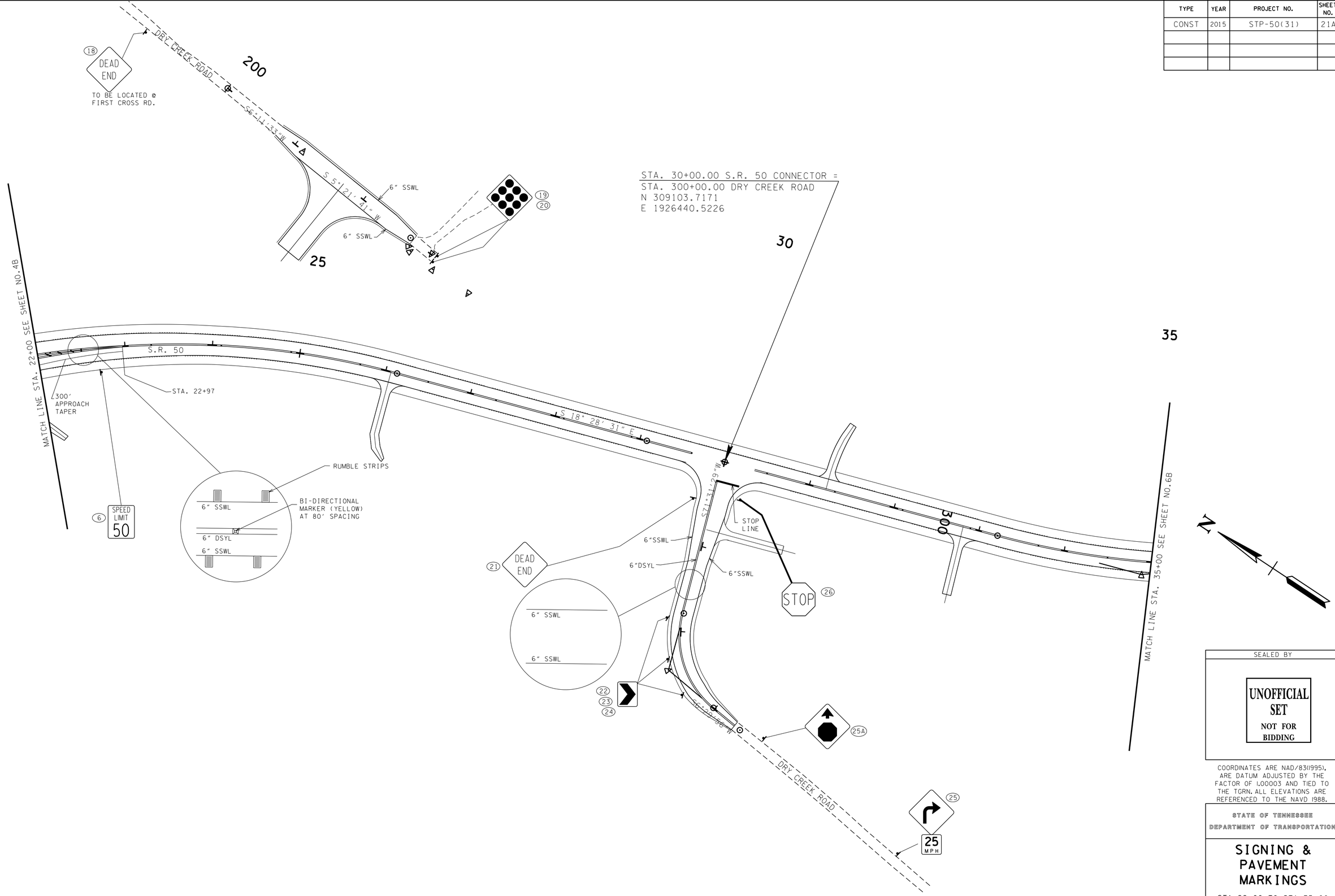
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	21A

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



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UNOFFICIAL SET
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COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKINGS

STA.22+00 TO STA.35+00

SCALE: 1"=50'

23-OCT-2014 11:51
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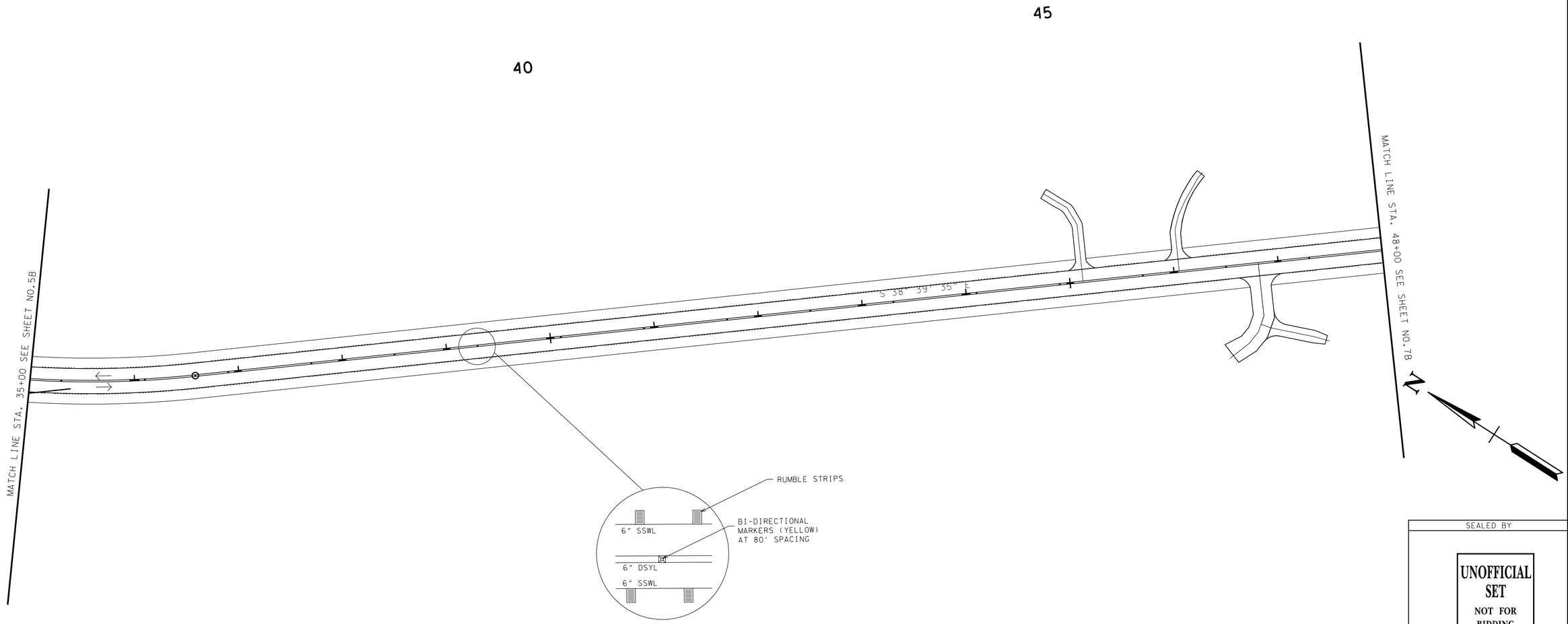
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	21B



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKINGS

STA.35+00 TO STA.48+00

SCALE: 1"=50'

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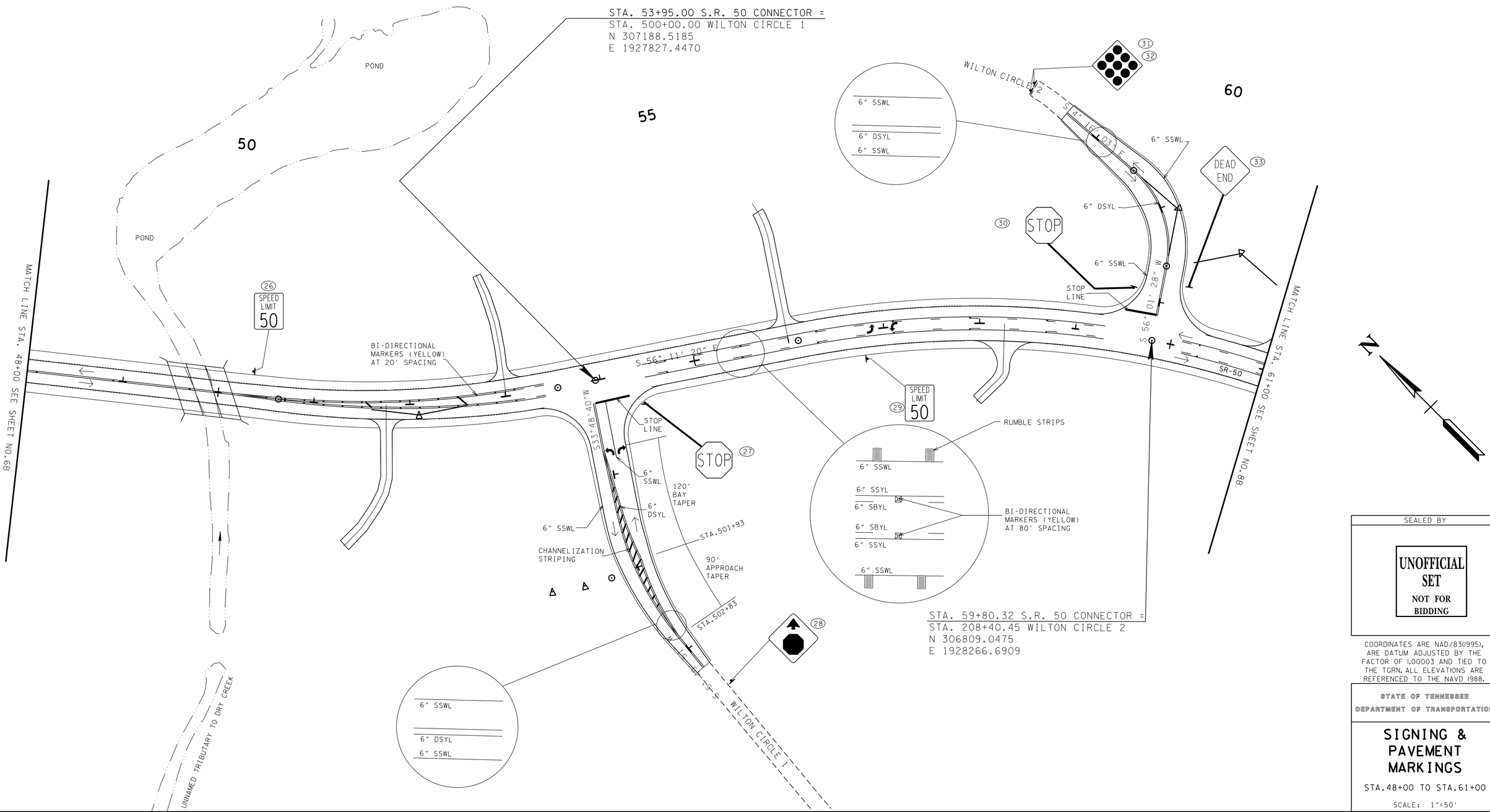
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	21C

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



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKINGS

STA.48+00 TO STA.61+00

SCALE: 1"=50'

23-OCT-2014 11:51
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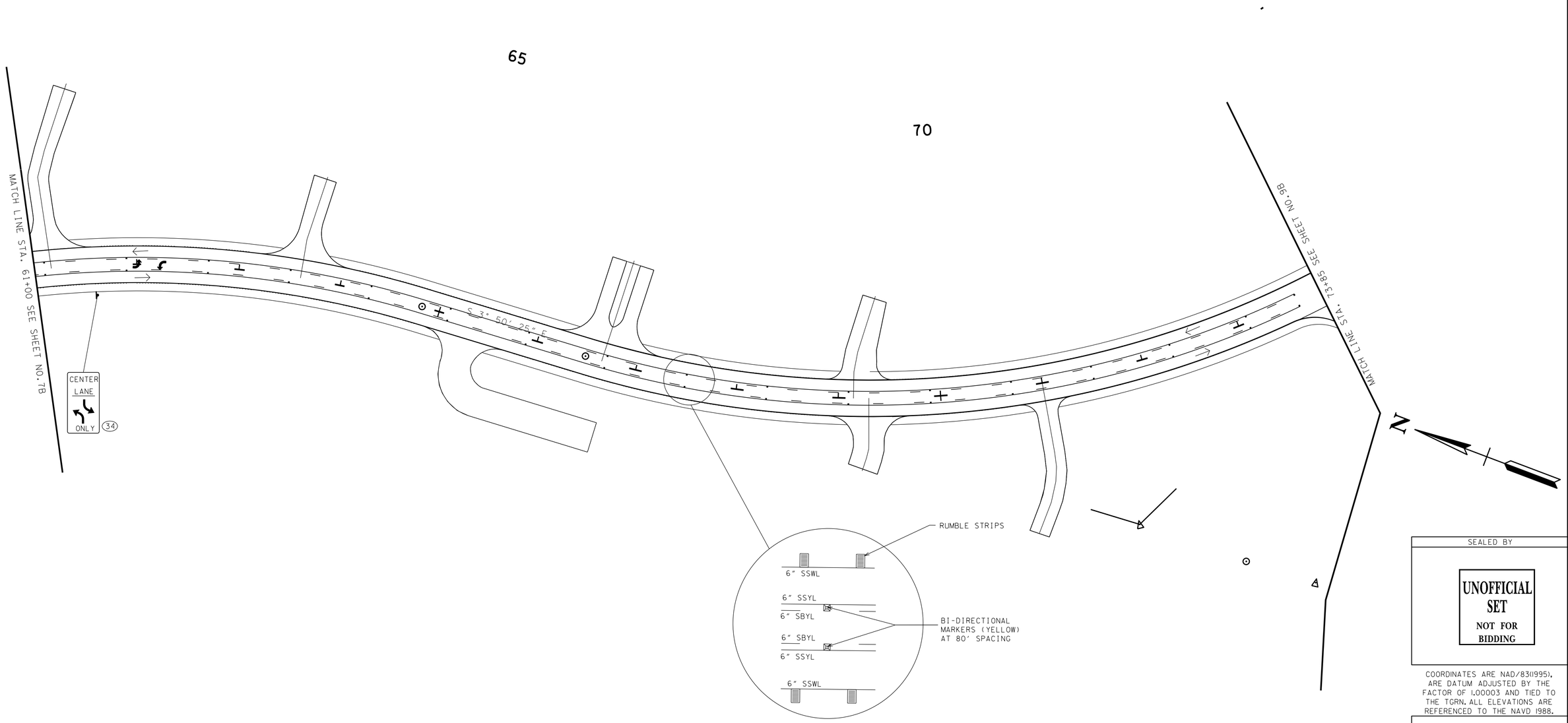
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	21D

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



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKINGS

STA.61+00 TO STA.73+85

SCALE: 1"=50'

23-OCT-2014 11:51
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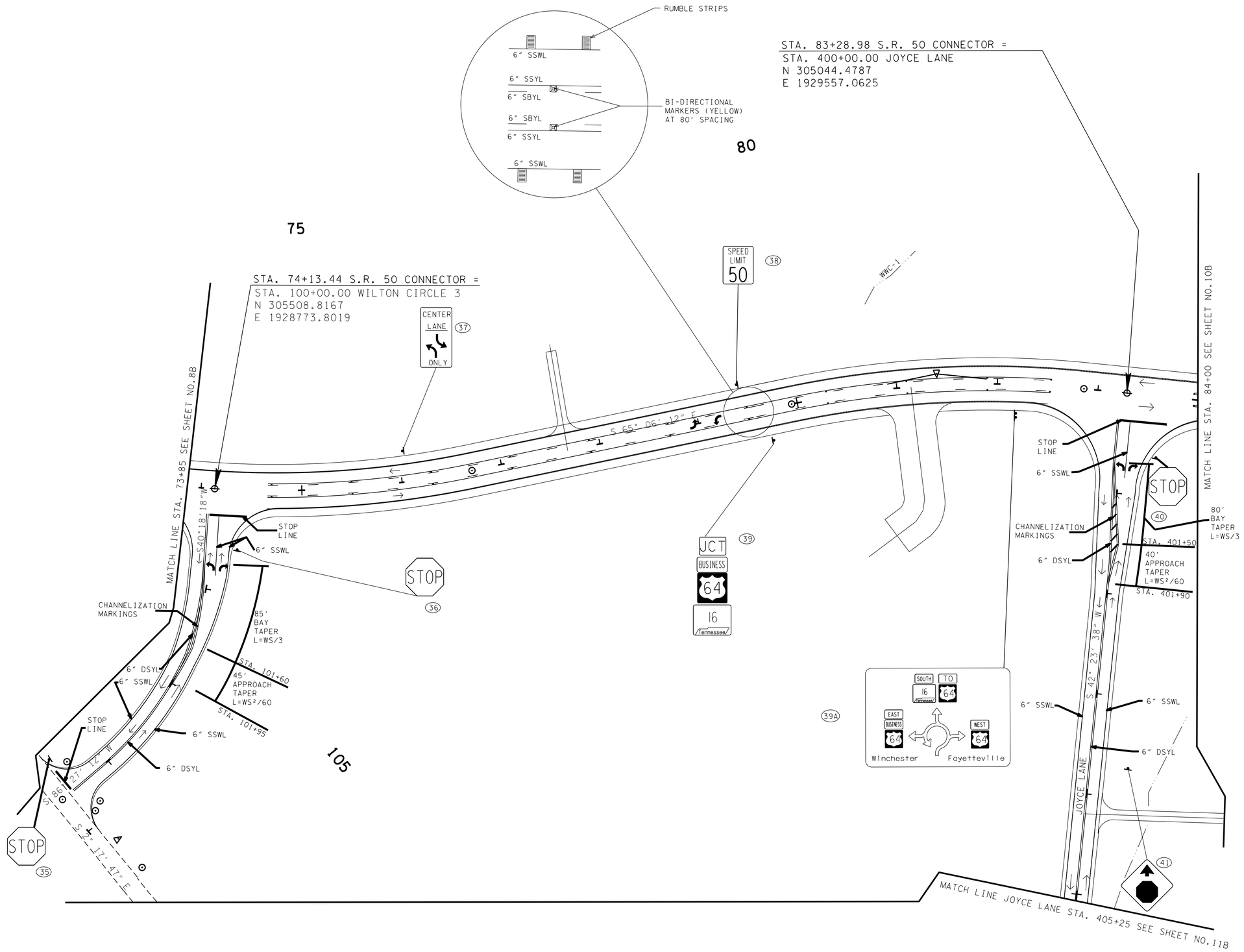
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	21E

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



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKINGS

STA.73+85 TO STA.84+00

SCALE: 1"=50'

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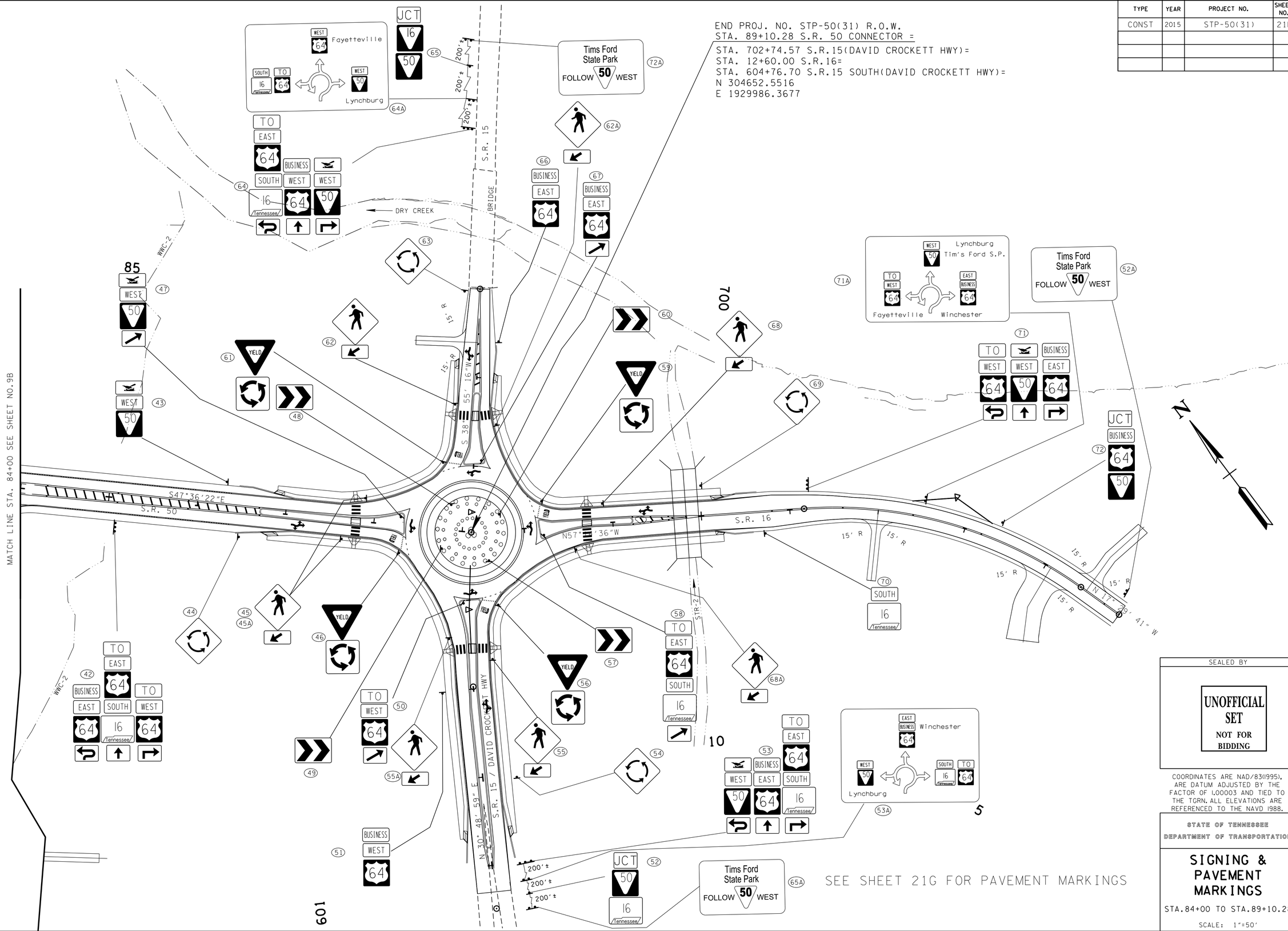
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	21F

END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28 S.R. 50 CONNECTOR =

STA. 702+74.57 S.R.15(DAVID CROCKETT HWY)=
STA. 12+60.00 S.R.16=
STA. 604+76.70 S.R.15 SOUTH(DAVID CROCKETT HWY)=
N 304652.5516
E 1929986.3677



SEE SHEET 21G FOR PAVEMENT MARKINGS

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKINGS

STA.84+00 TO STA.89+10.28

SCALE: 1"=50'

23-OCT-2014 11:51
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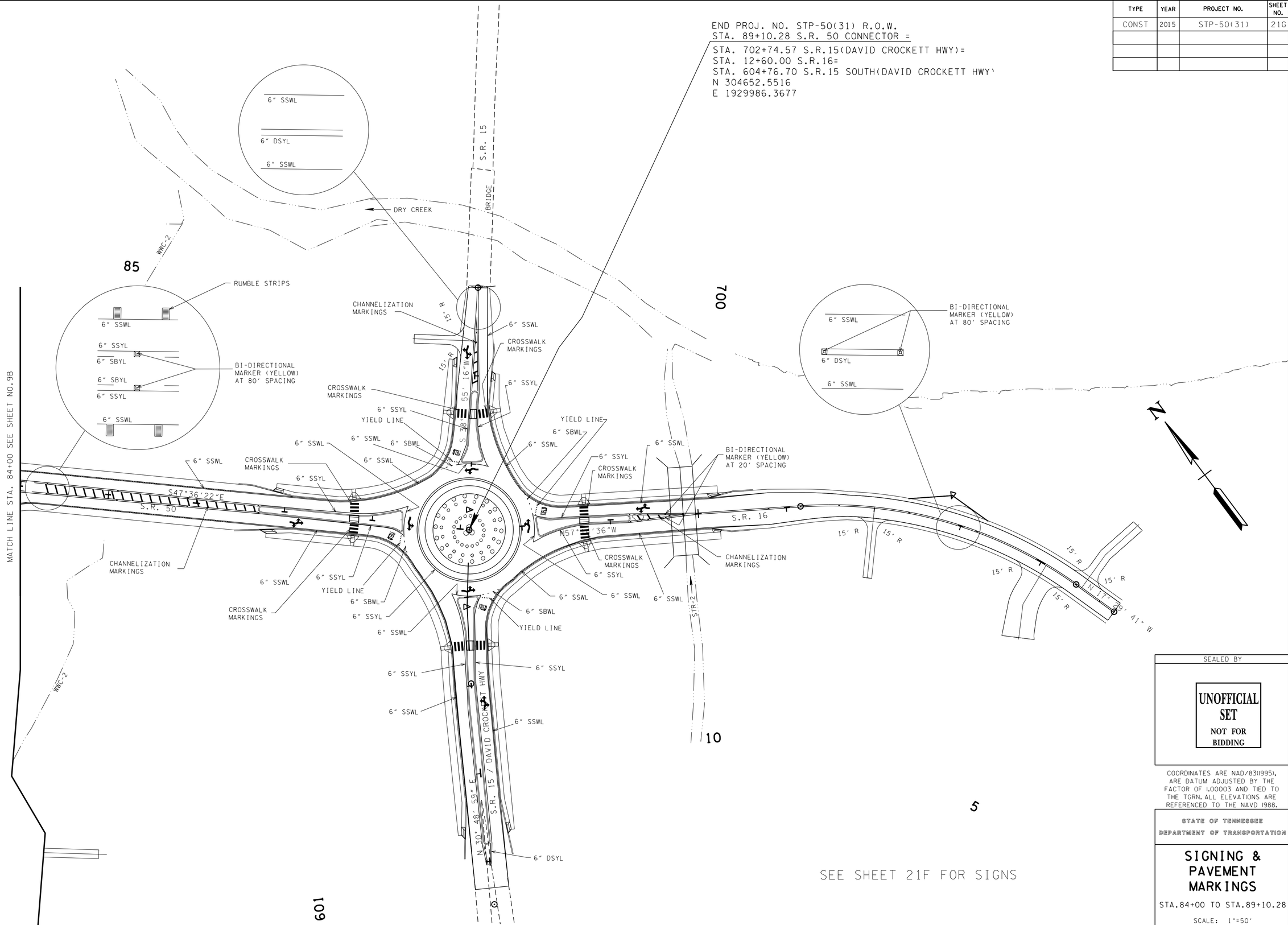
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	21G

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

END PROJ. NO. STP-50(31) R.O.W.
STA. 89+10.28 S.R. 50 CONNECTOR =
STA. 702+74.57 S.R.15(DAVID CROCKETT HWY)=
STA. 12+60.00 S.R.16=
STA. 604+76.70 S.R.15 SOUTH(DAVID CROCKETT HWY)
N 304652.5516
E 1929986.3677



SEE SHEET 21F FOR SIGNS

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKINGS

STA.84+00 TO STA.89+10.28

SCALE: 1"=50'

23-OCT-2014 11:51
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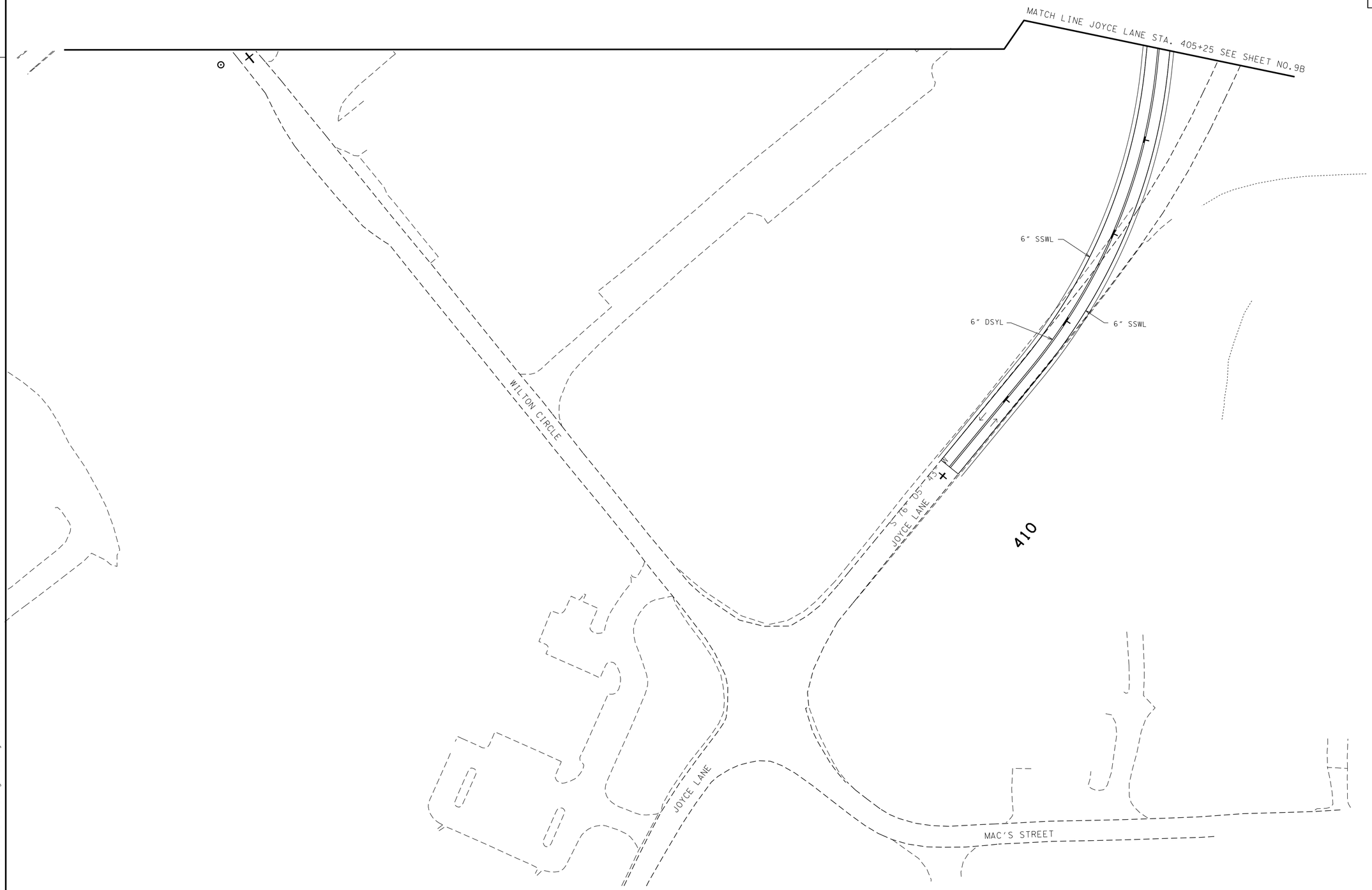
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2015	STP-50(31)	21H



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKINGS

JOYCE LANE
STA.405+25 TO STA.413+52

SCALE: 1"=50'

23-OCT-2014 11:51
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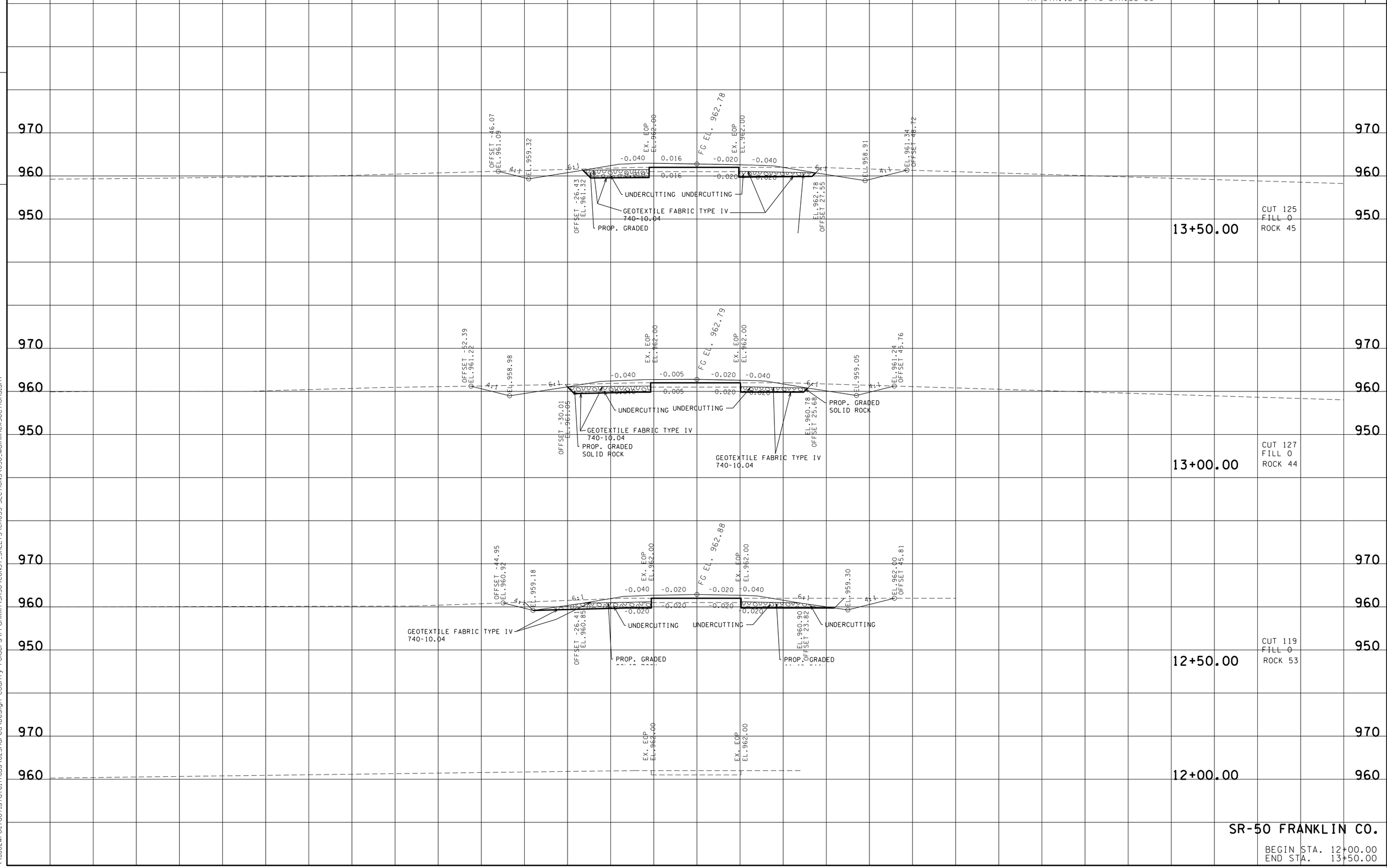
REV 08-20-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	20
CONST.	2015	STP-50(31)	30

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 12+00.00
END STA. 13+50.00

23-OCT-2014 13:31
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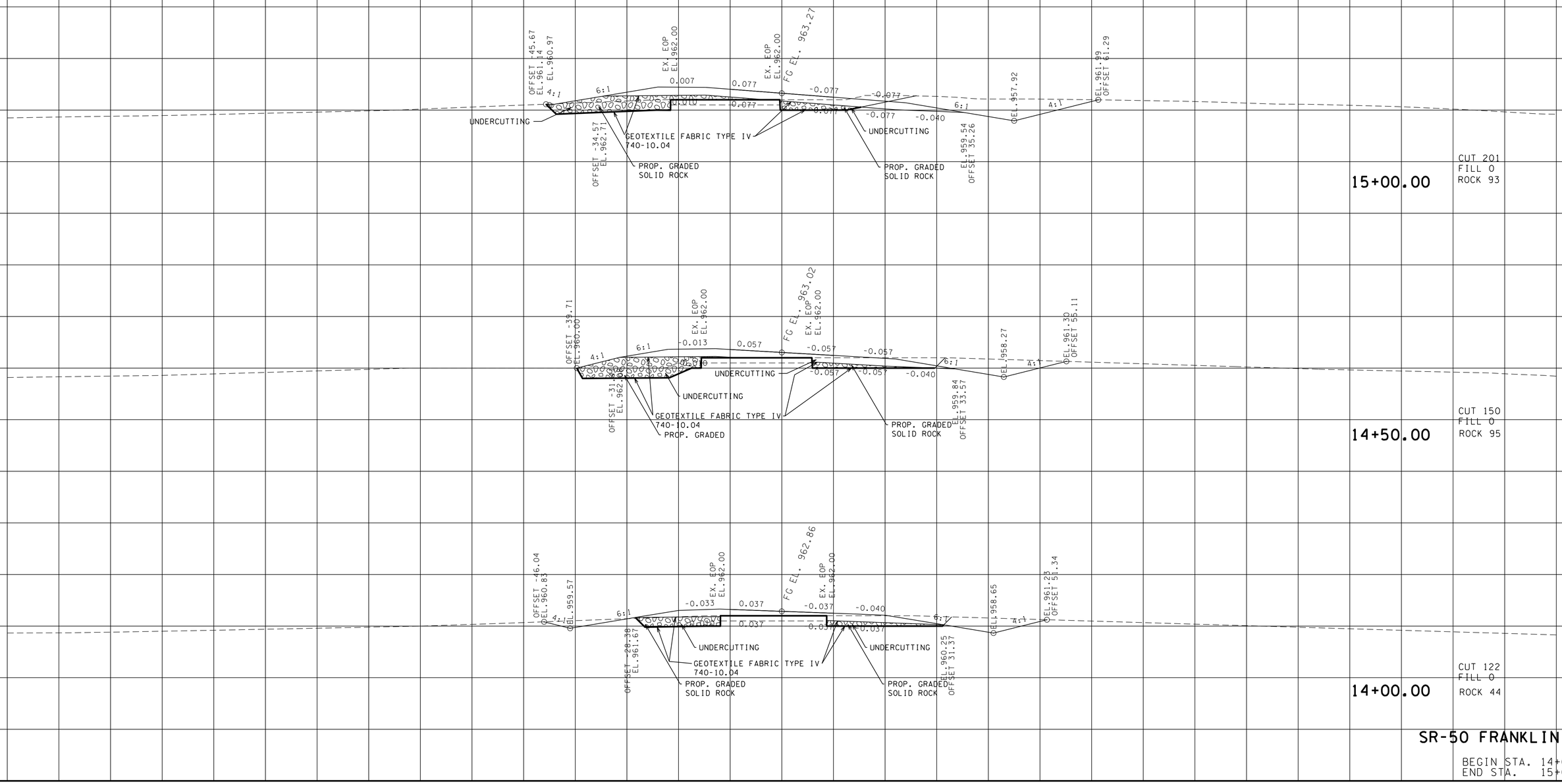
REV 08-20-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	21
CONST.	2015	STP-50(31)	31

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 14+00.00
END STA. 15+00.00

23-OCT-2014 13:31
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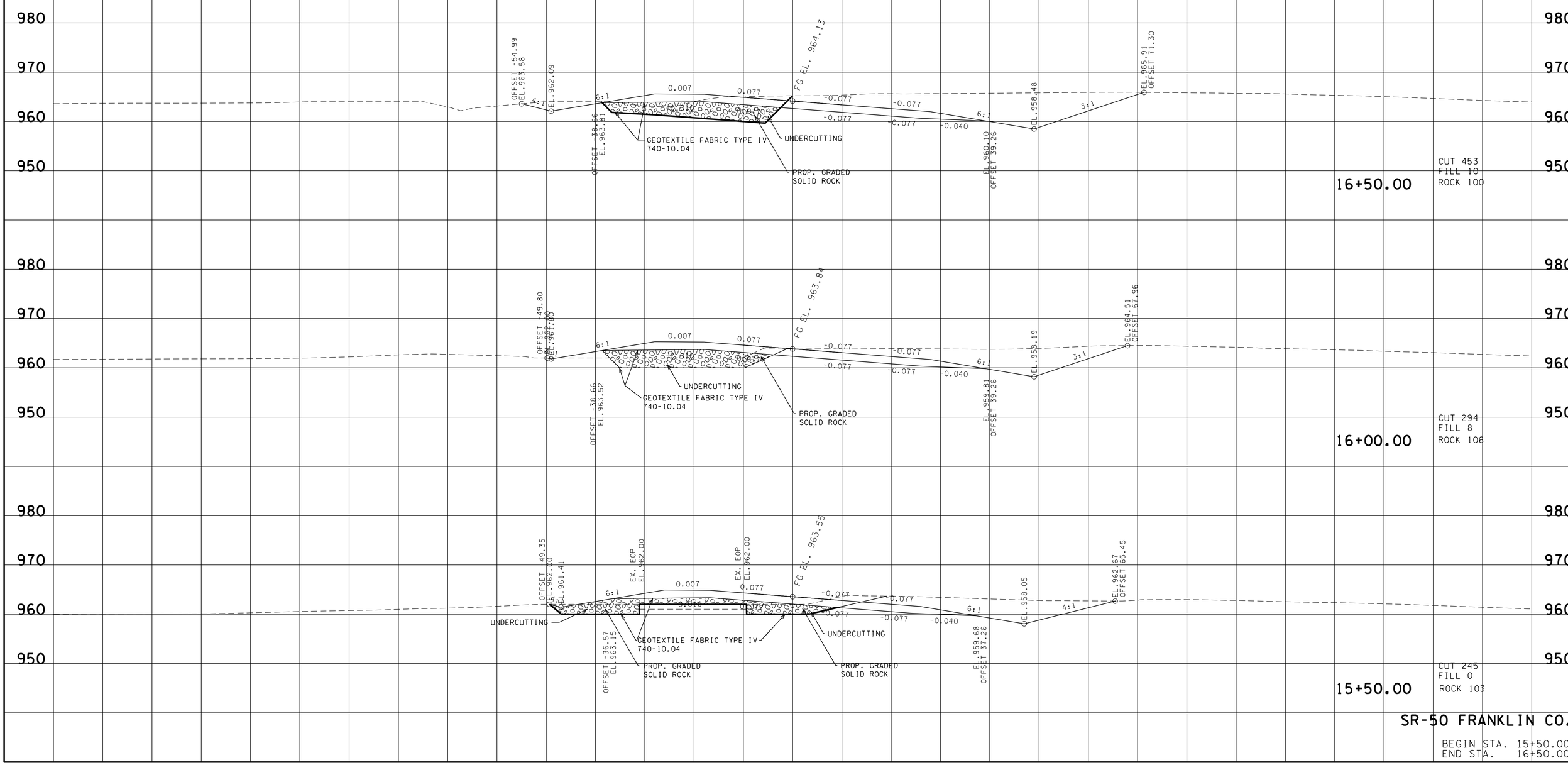
REV 08-20-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	22
CONST.	2015	STP-50(31)	32

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 15+50.00
END STA. 16+50.00

23-OCT-2014 13:31
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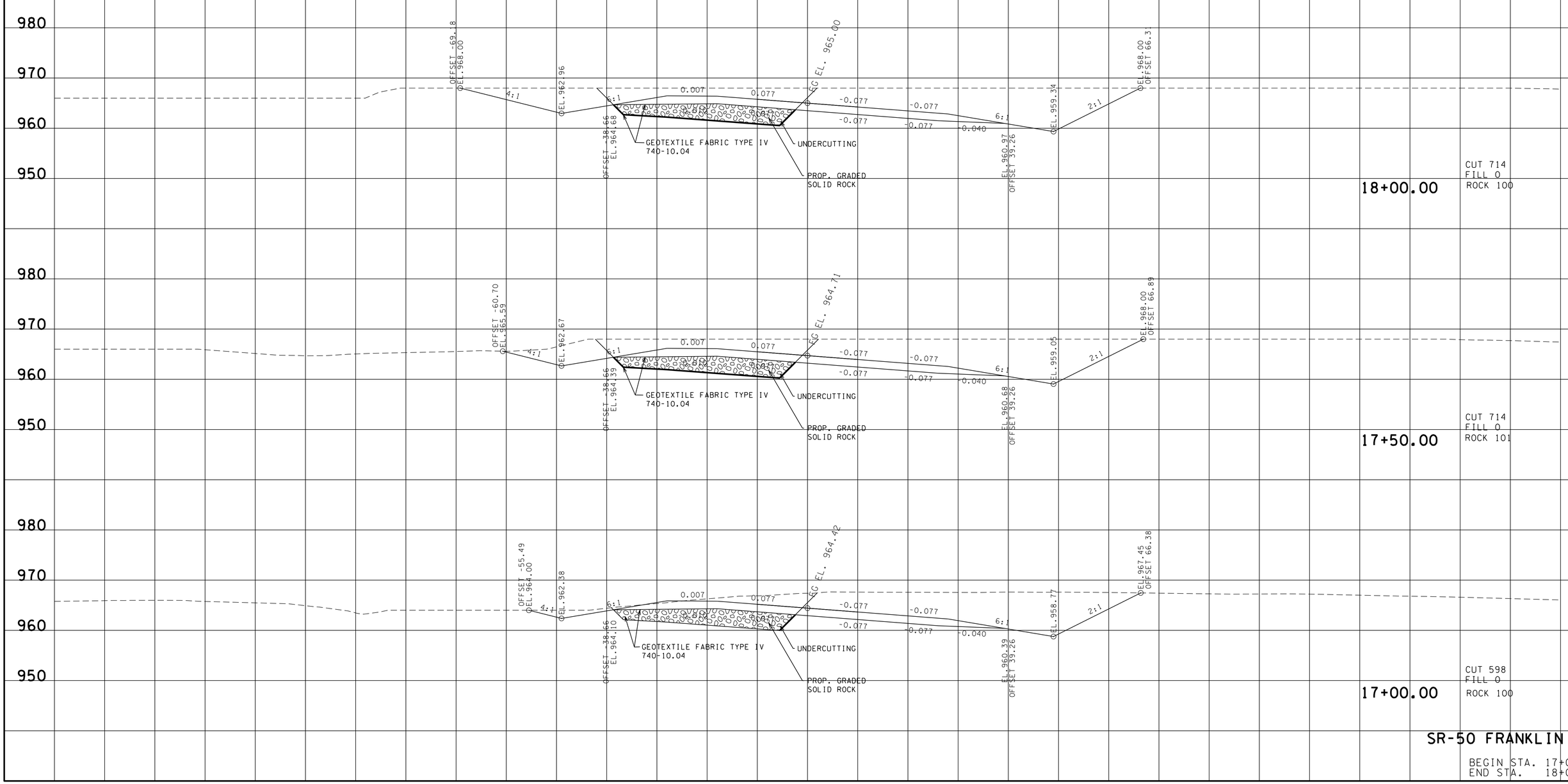
REV 08-20-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	23
CONST.	2015	STP-50(31)	33

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 17+00.00
END STA. 18+00.00

23-OCT-2014 13:31
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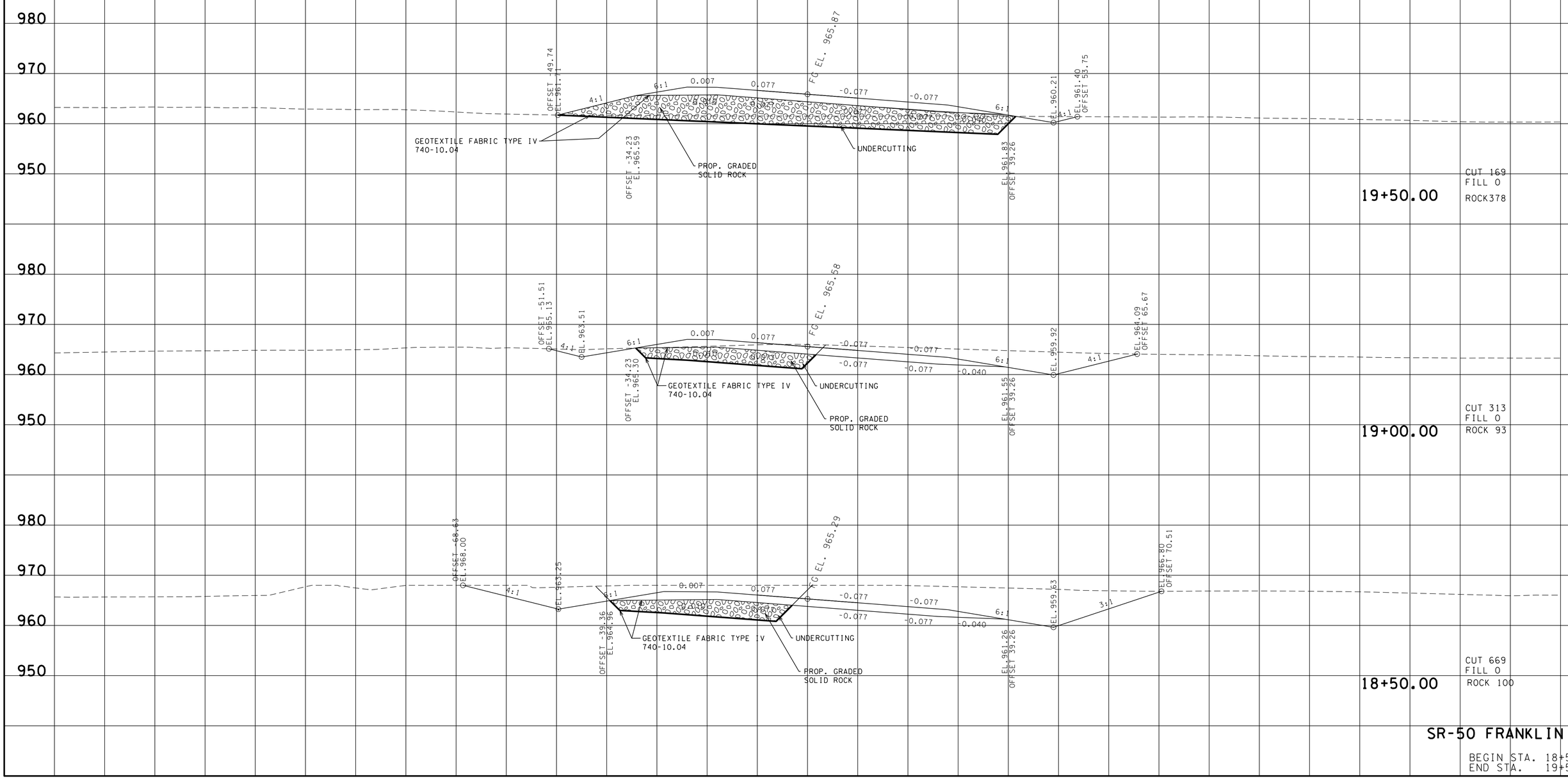
REV 08-20-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	24
CONST.	2014	STP-50(31)	34

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 18+50.00
END STA. 19+50.00

23-OCT-2014 13:31
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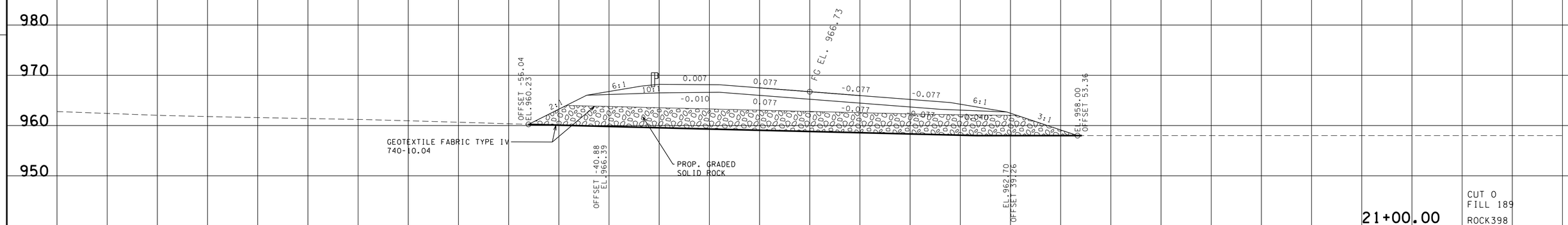
REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	25
CONST.	2015	STP-50(31)	35

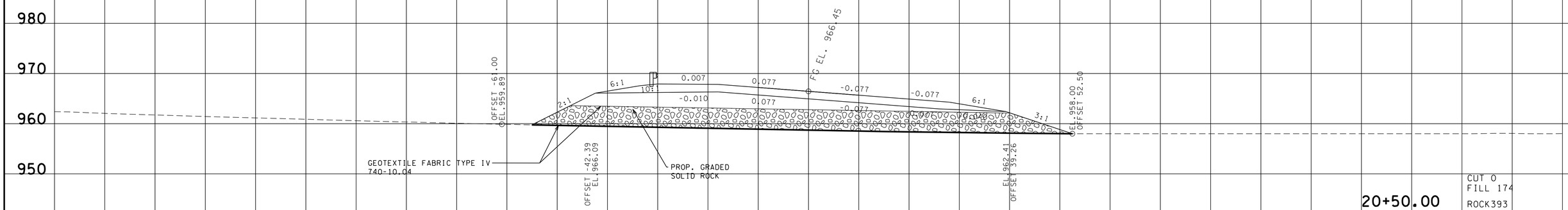
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



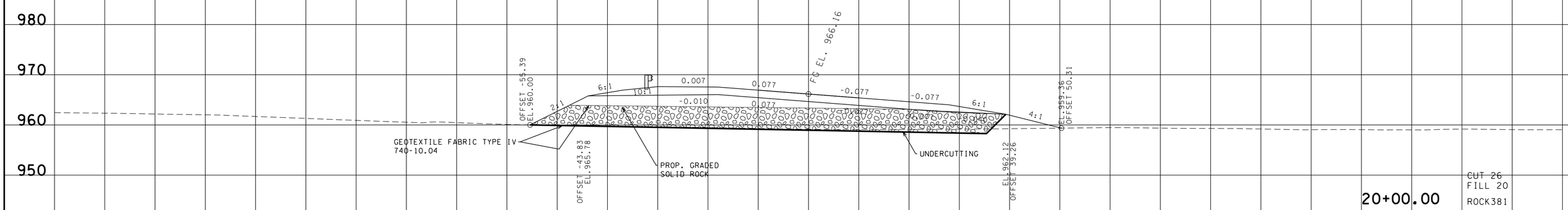
21+00.00

CUT 0
FILL 189
ROCK398



20+50.00

CUT 0
FILL 174
ROCK393



20+00.00

CUT 26
FILL 20
ROCK381

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

SR-50 FRANKLIN CO.

BEGIN STA. 20+00.00
END STA. 21+00.00

23-OCT-2014 13:31
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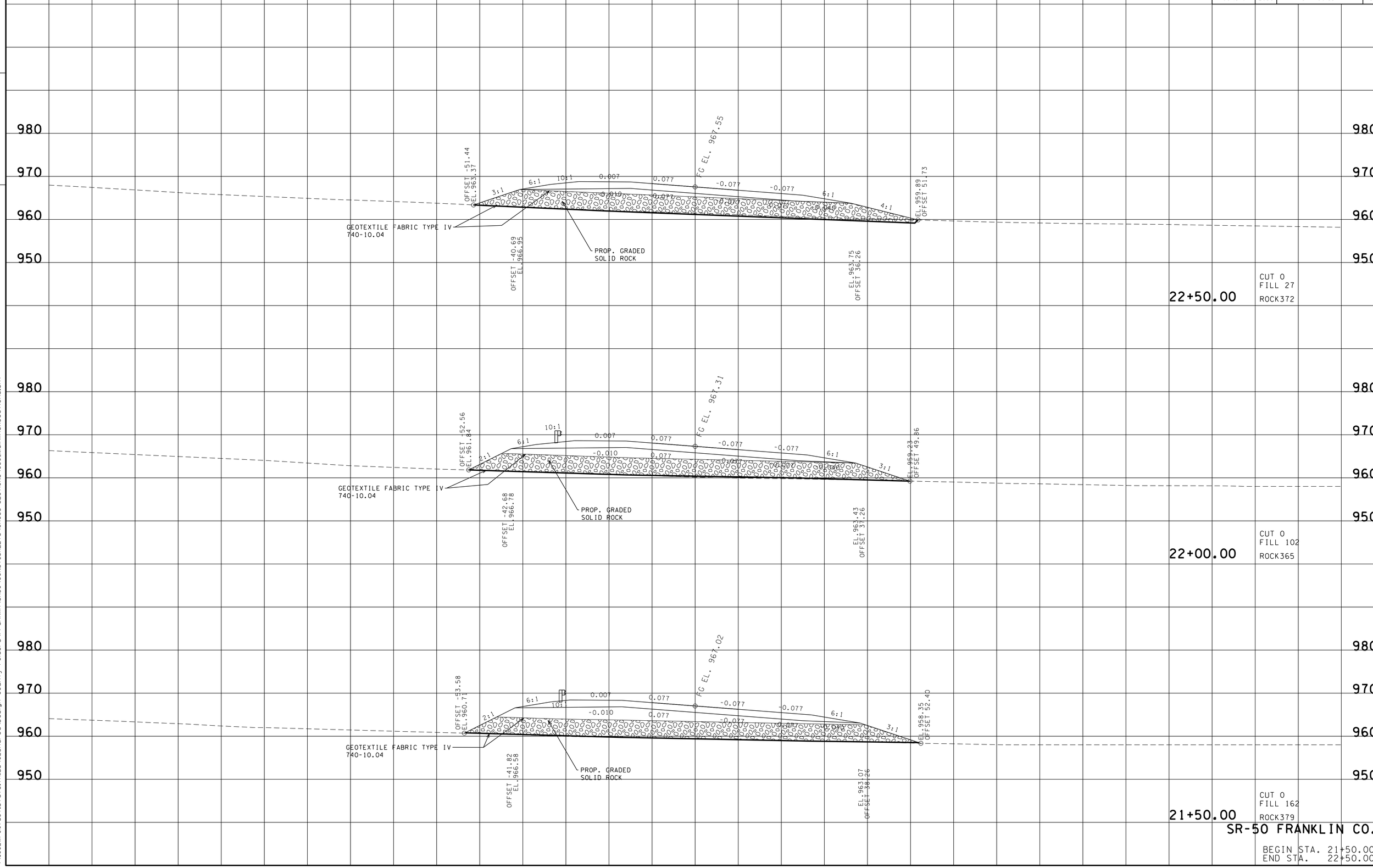
REV 10-17-14: UPDATED CROSS SECTIONS
AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	26
CONST.	2015	STP-50(31)	36

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 21+50.00
END STA. 22+50.00

23-OCT-2014 13:31
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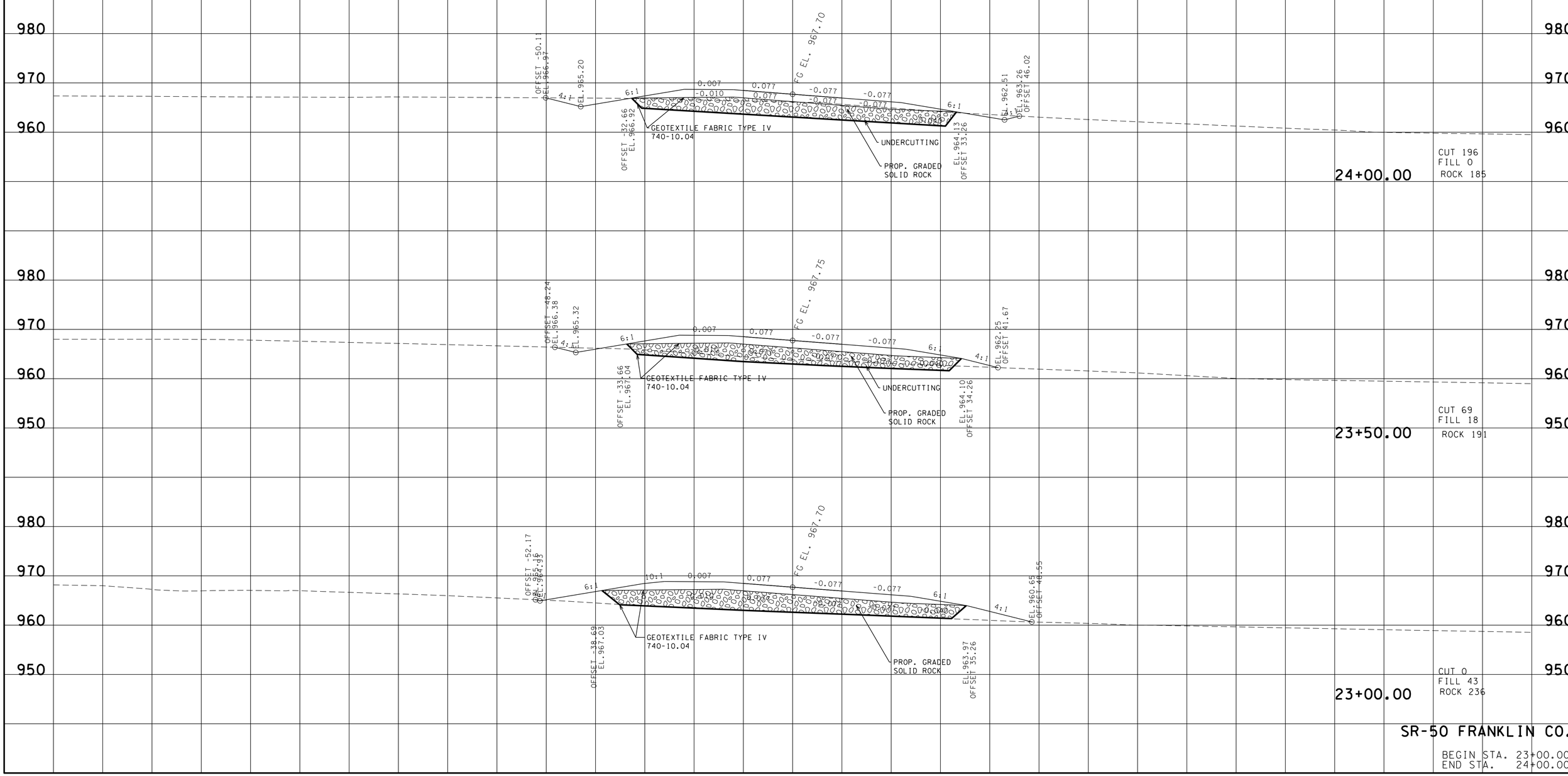
REV 08-20-14:ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	27
CONST.	2015	STP-50(31)	37

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 23+00.00
END STA. 24+00.00

23-OCT-2014 13:31
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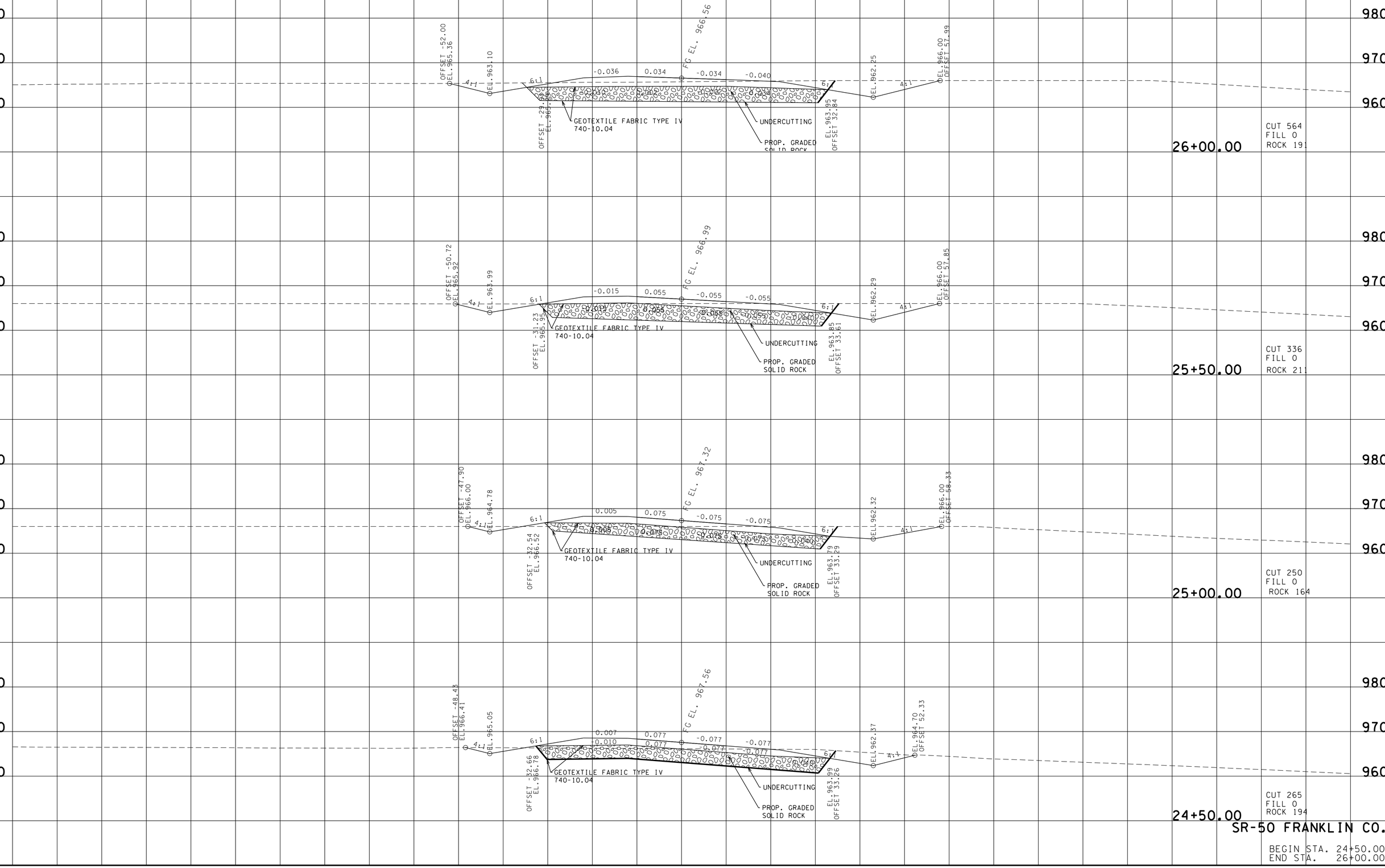
REV 08-20-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	28
CONST.	2015	STP-50(31)	38

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 24+50.00
END STA. 26+00.00

23-OCT-2014 13:32
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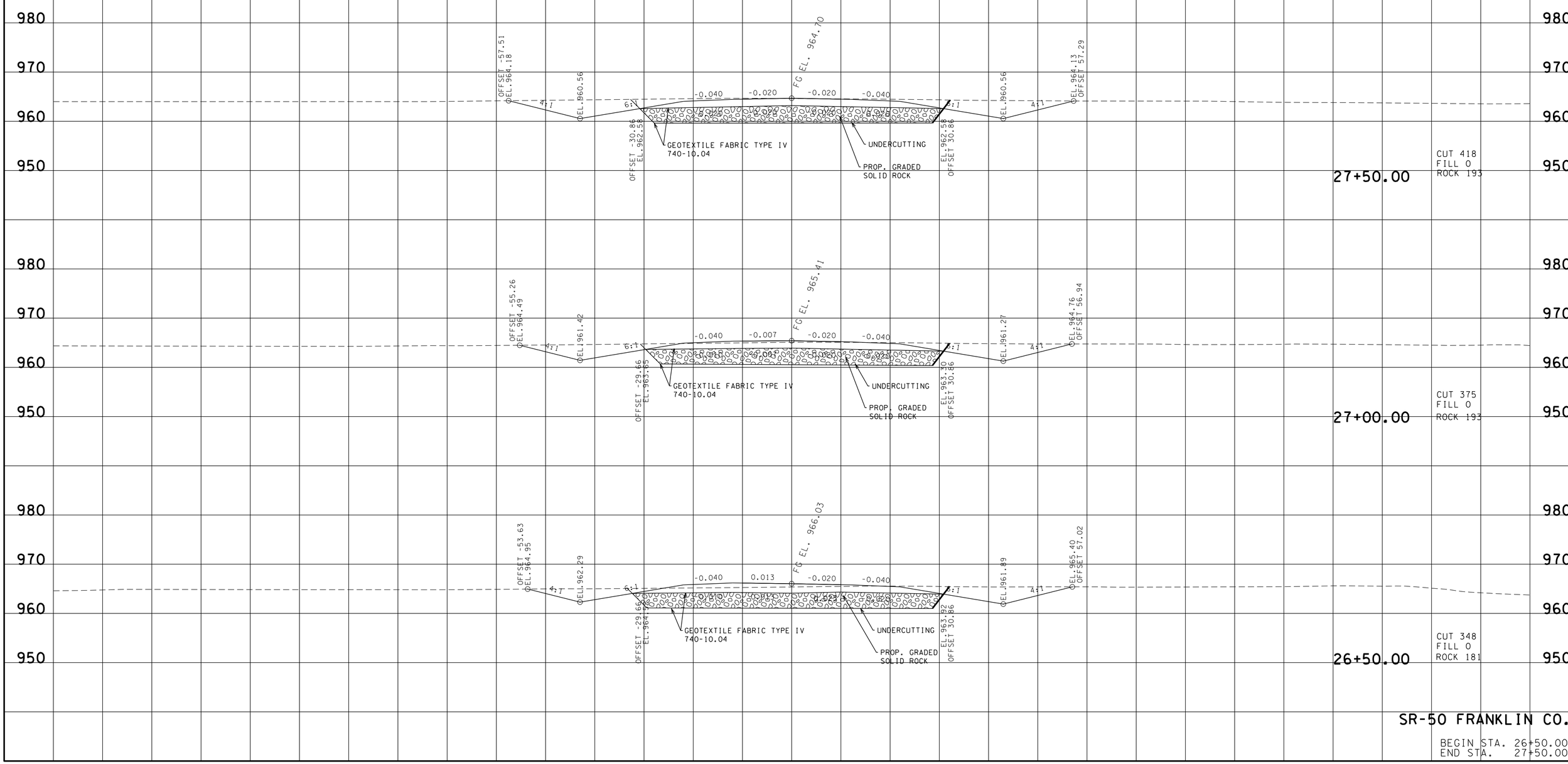
REV 08-20-14:ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	29
CONST.	2014	STP-50(31)	39

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 26+50.00
END STA. 27+50.00

23-OCT-2014 13:32
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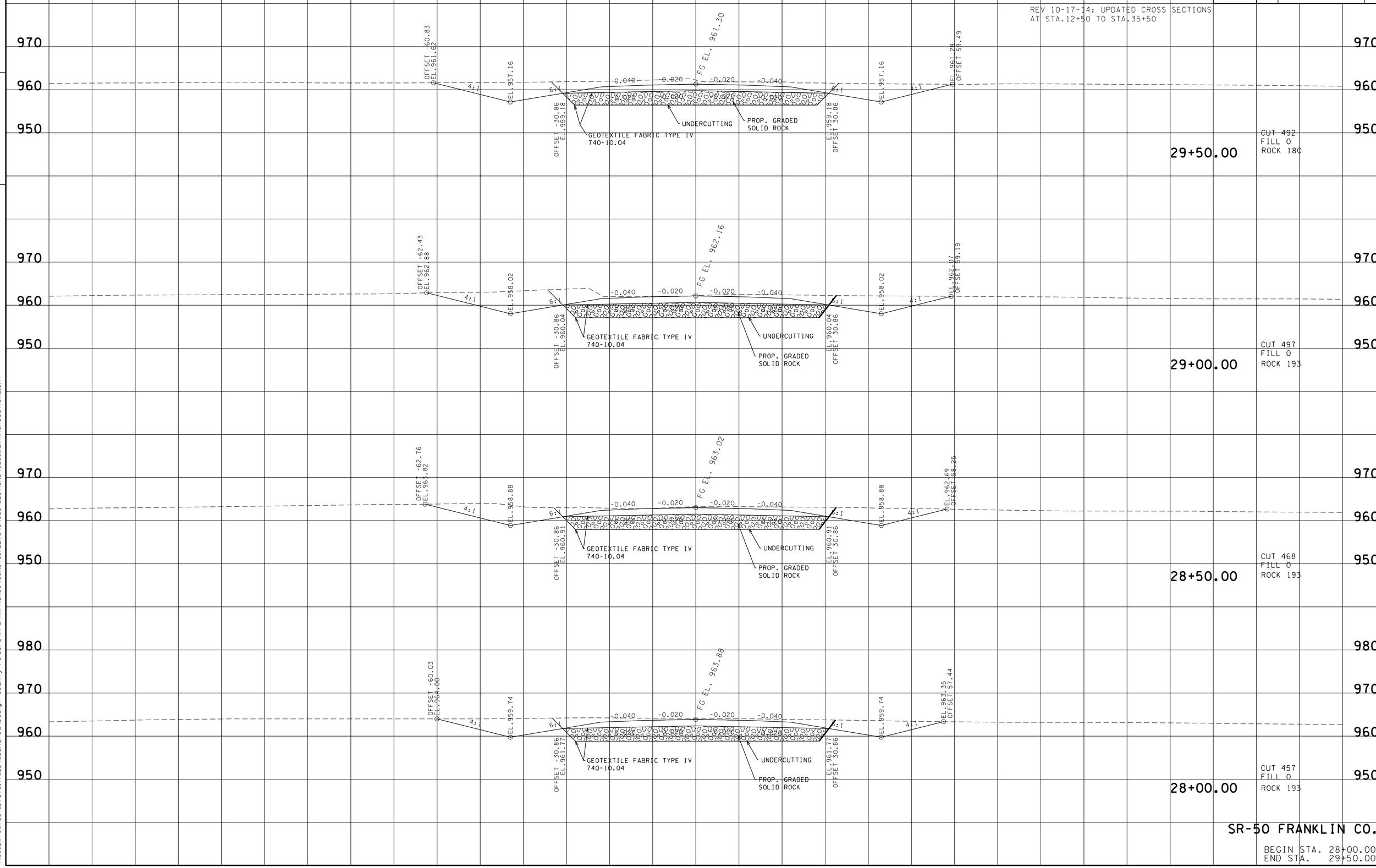
REV 08-14-14:ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 08-20-14:ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	30
CONST.	2015	STP-50(31)	40

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 28+00.00
END STA. 29+50.00

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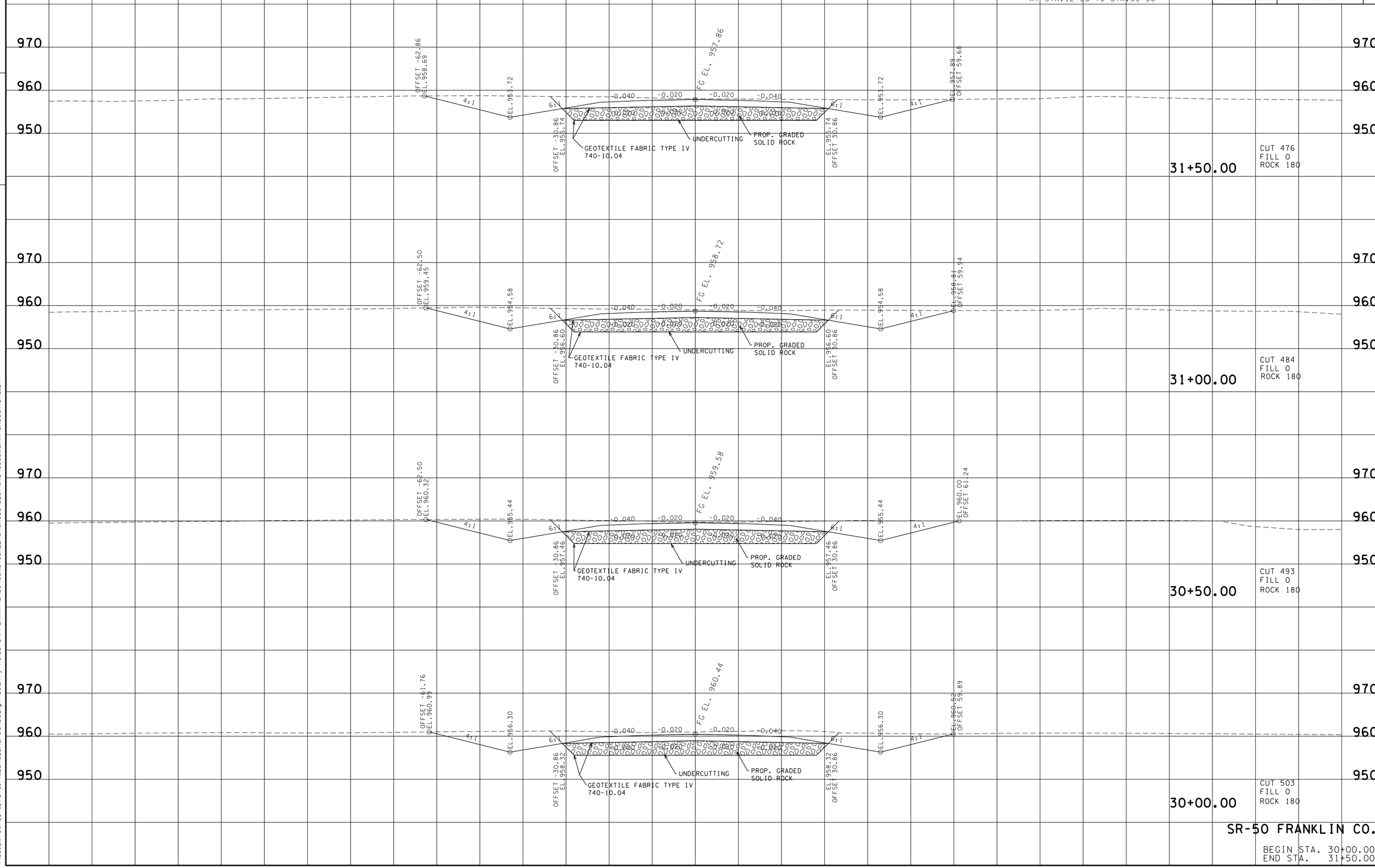
REV 08-14-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.

REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	31
CONST.	2015	STP-50(31)	41

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 30+00.00
END STA. 31+50.00

23-OCT-2014 13:32
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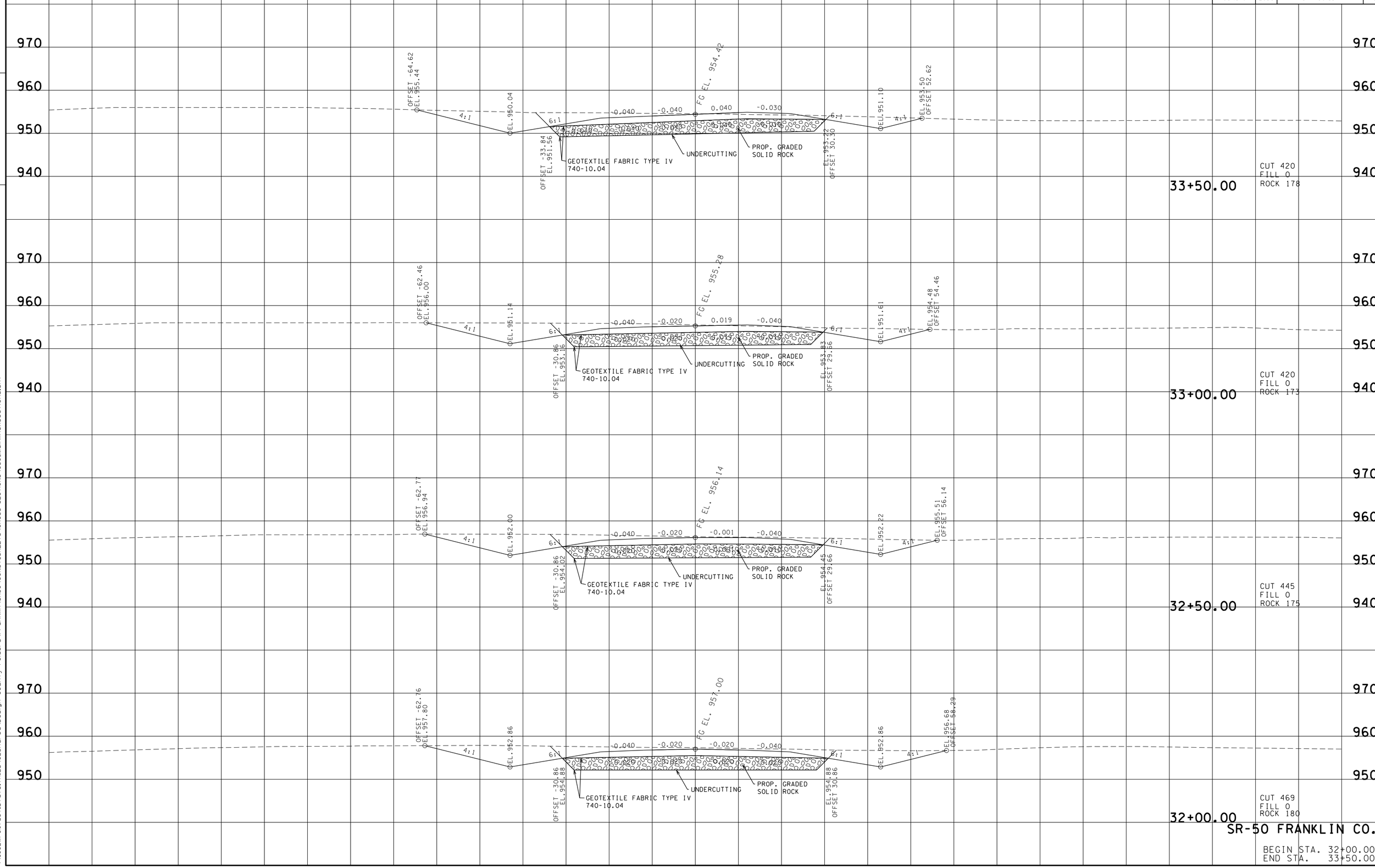
REV 08-14-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	32
CONST.	2015	STP-50(31)	42

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 32+00.00
END STA. 33+50.00

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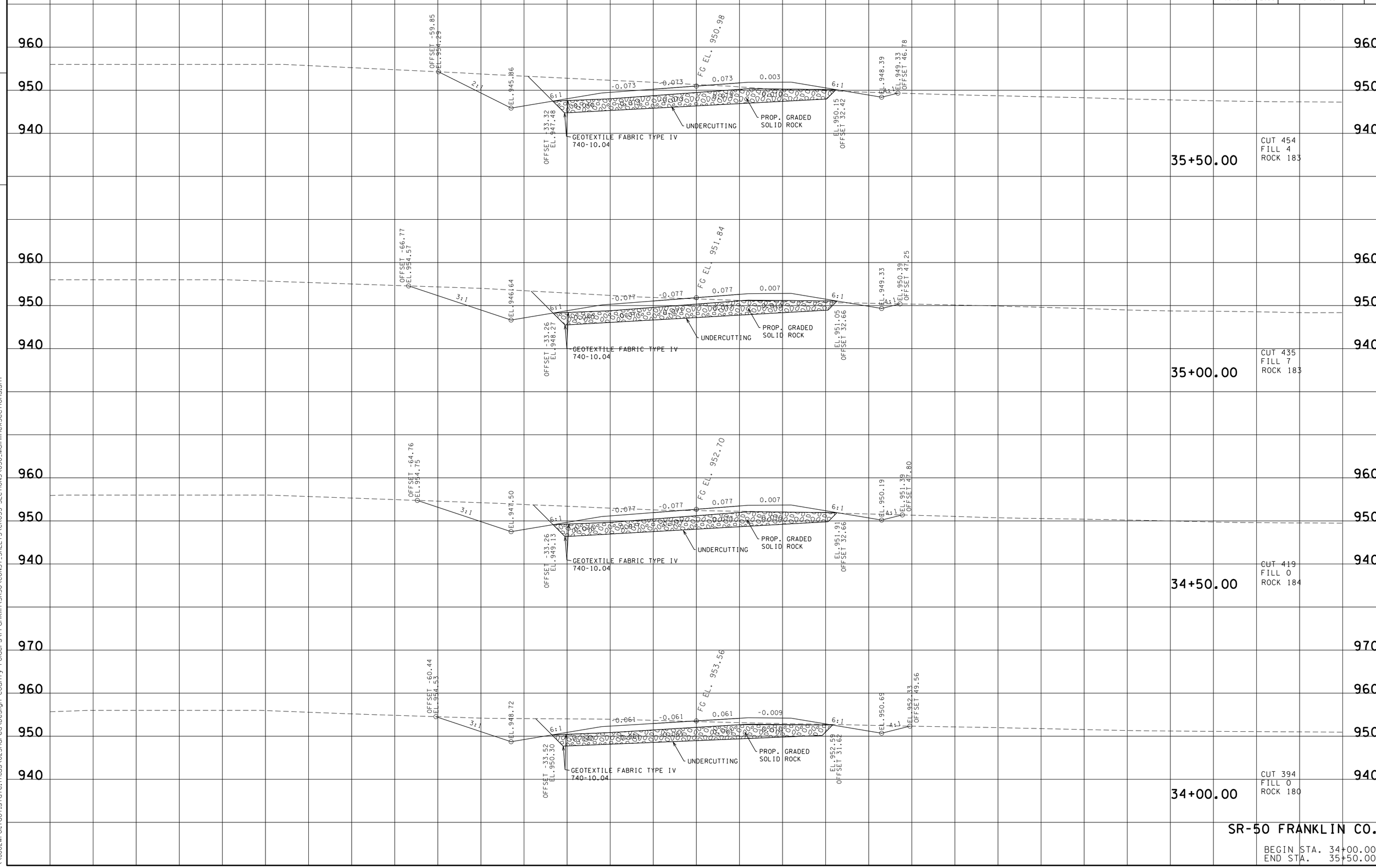
REV 08-14-14: ADDED PROP GRADED SOLID ROCK PER GEO REQ.
REV 10-17-14: UPDATED CROSS SECTIONS AT STA.12+50 TO STA.35+50

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	33
CONST.	2015	STP-50(31)	43

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



SR-50 FRANKLIN CO.

BEGIN STA. 34+00.00
END STA. 35+50.00

23-OCT-2014 13:32
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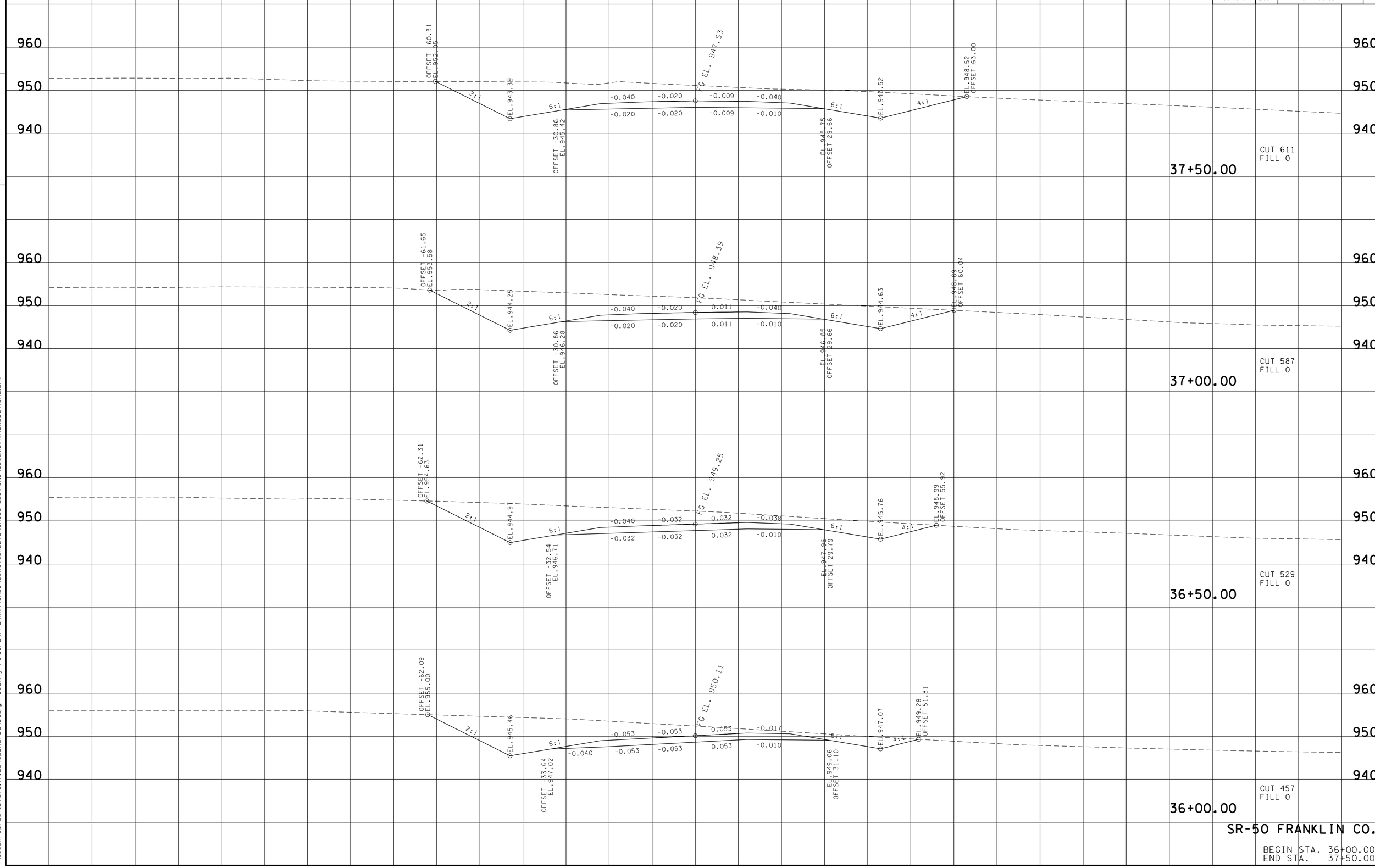
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	34
CONST.	2014	STP-50(31)	44



SR-50 FRANKLIN CO.

BEGIN STA. 36+00.00
END STA. 37+50.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

23-OCT-2014 13:32
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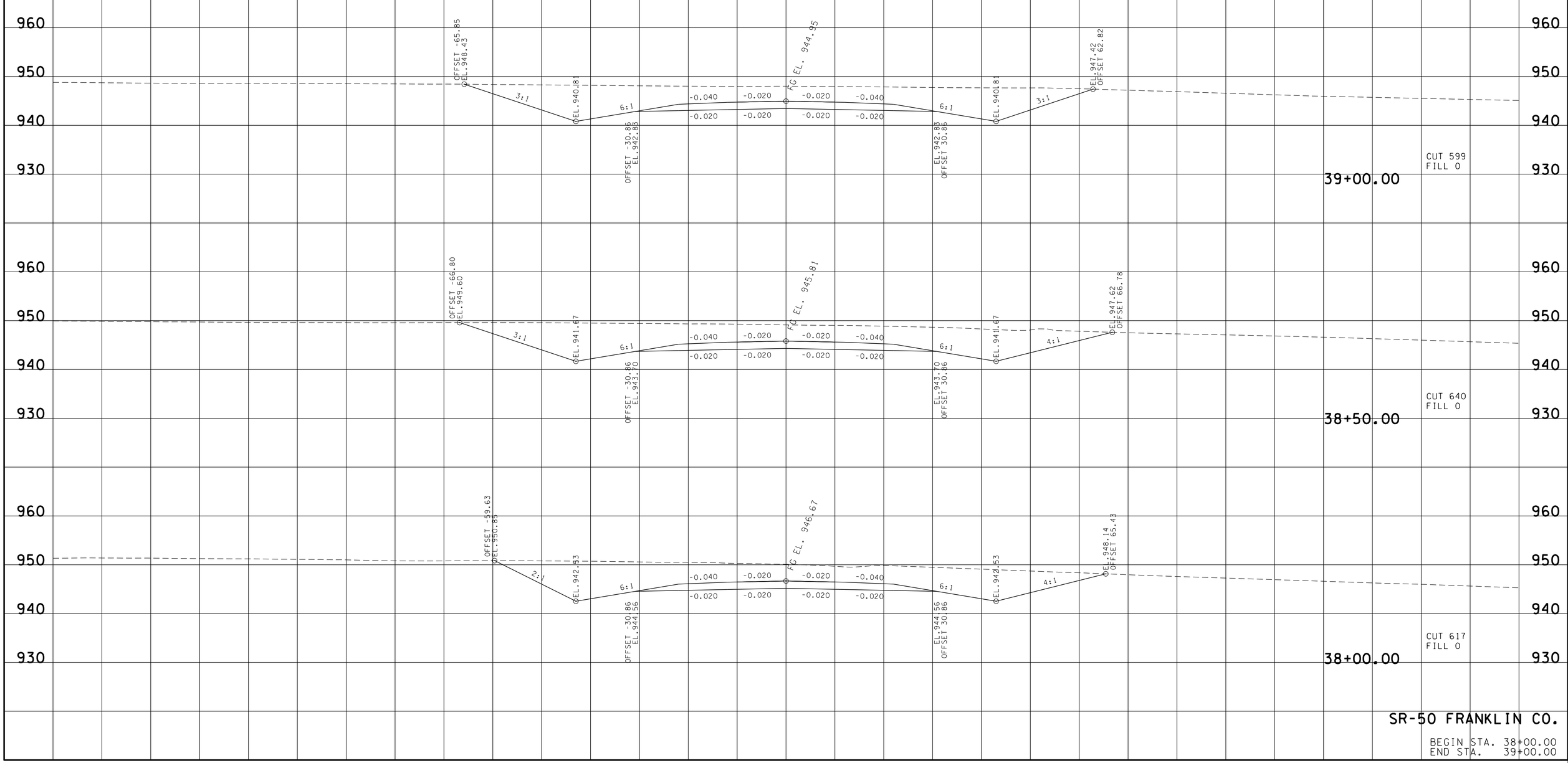
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	35
CONST.	2015	STP-50(31)	45

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 38+00.00
END STA. 39+00.00

23-OCT-2014 13:33
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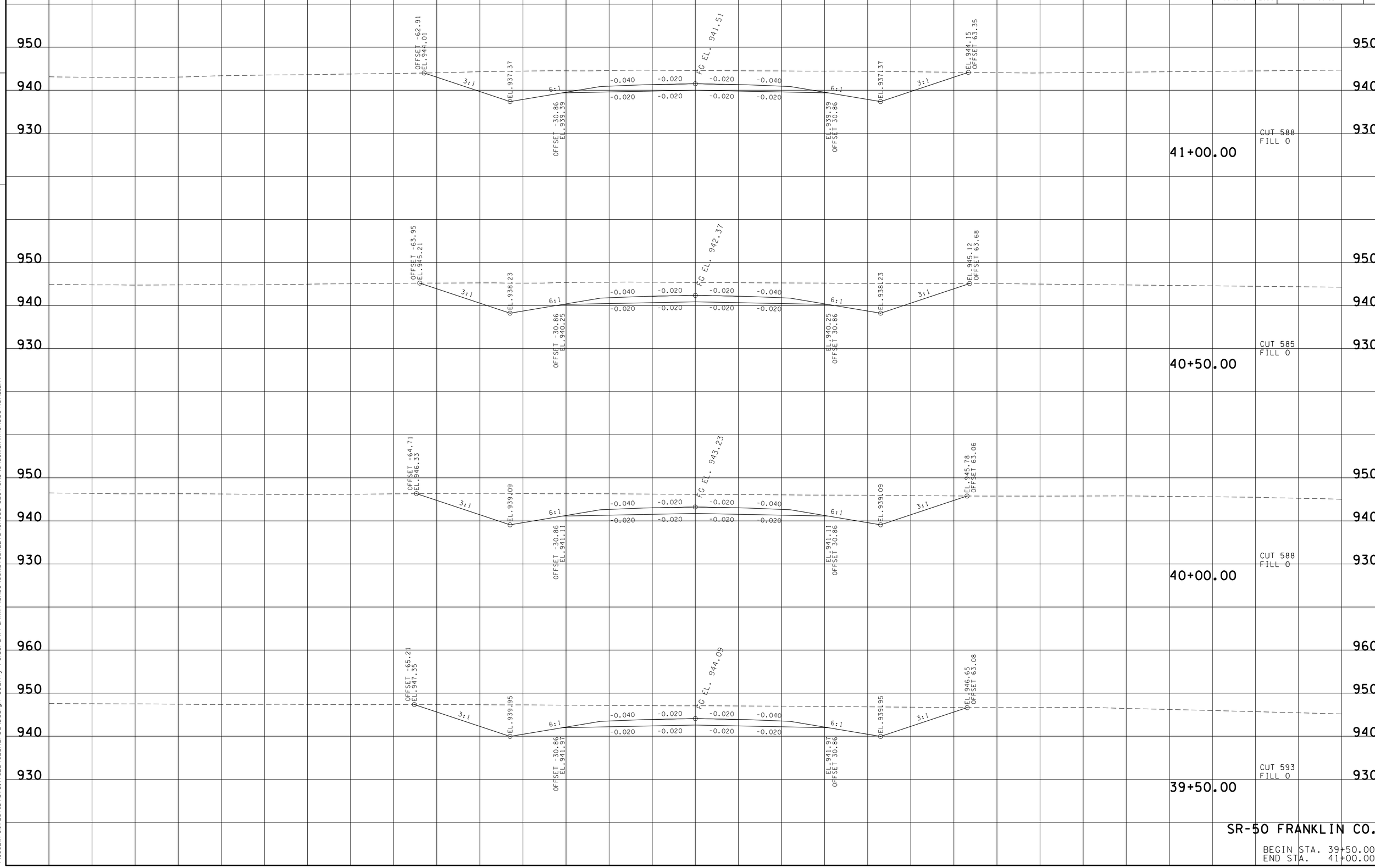
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	36
CONST.	2015	STP-50(31)	46

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 39+50.00
END STA. 41+00.00

23-OCT-2014 13:33
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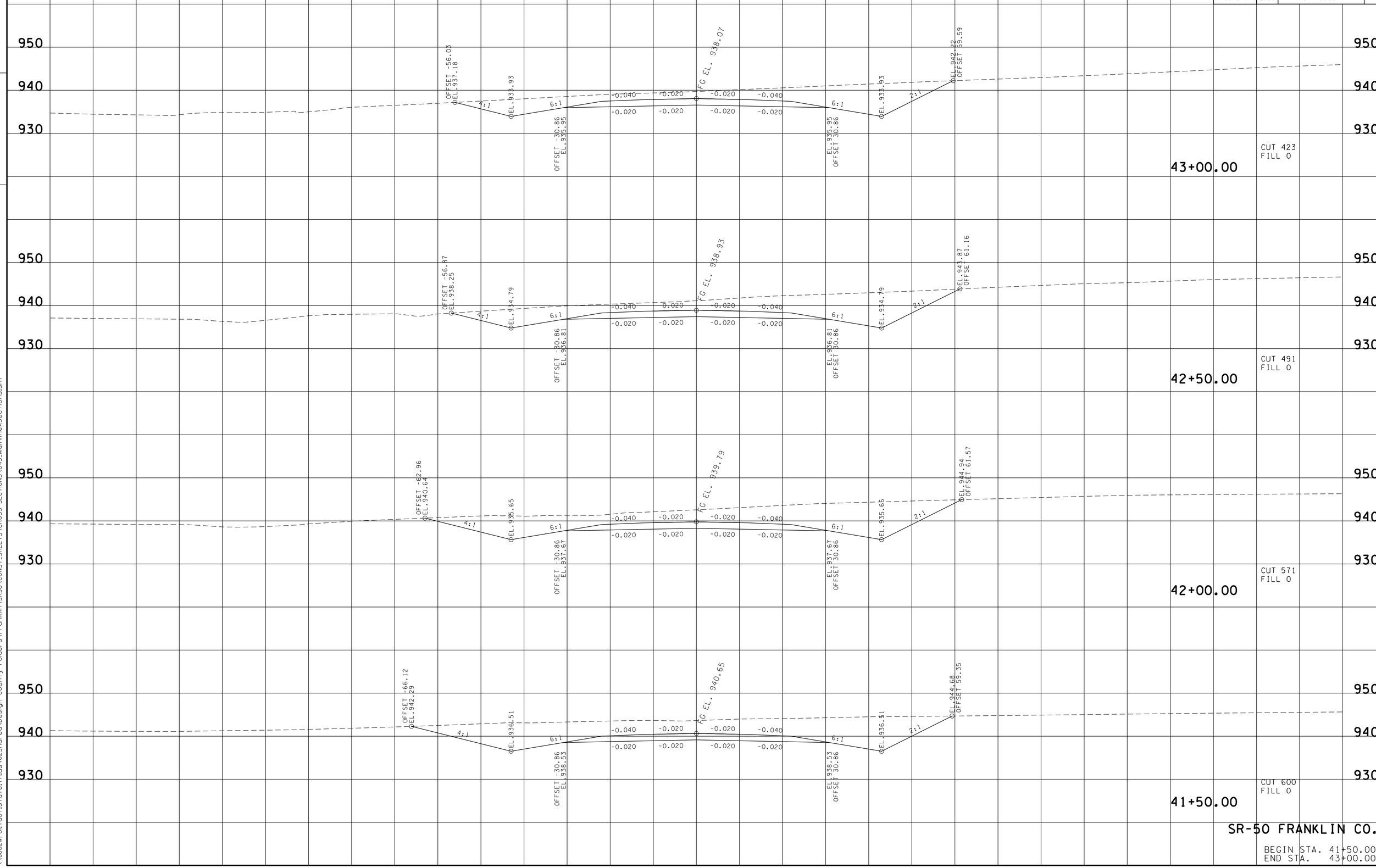
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	37
CONST.	2015	STP-50(31)	47



TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SR-50 FRANKLIN CO.

BEGIN STA. 41+50.00
END STA. 43+00.00

23-OCT-2014 13:33
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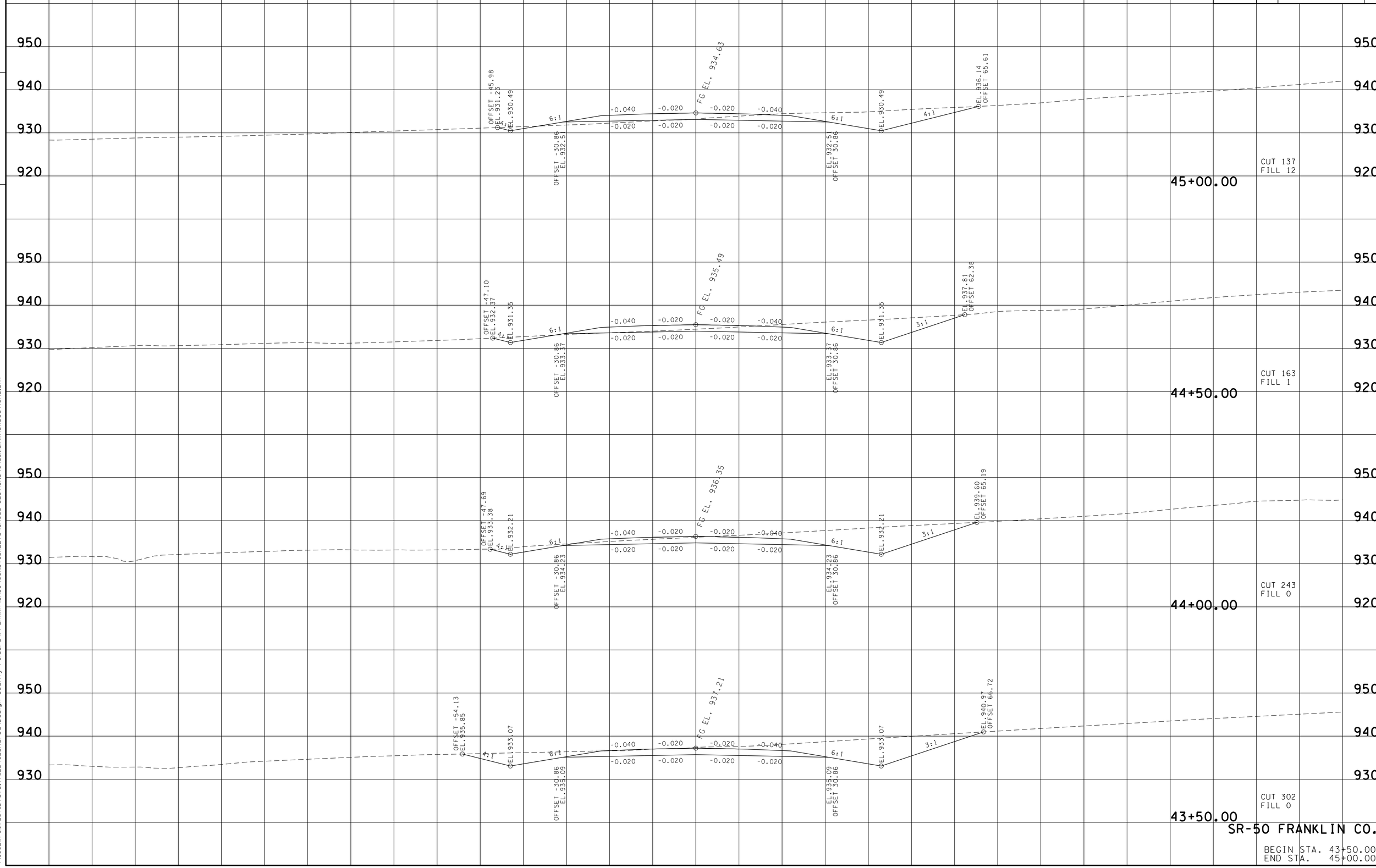
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	38
CONST.	2015	STP-50(31)	48

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 43+50.00
END STA. 45+00.00

23-OCT-2014 13:34
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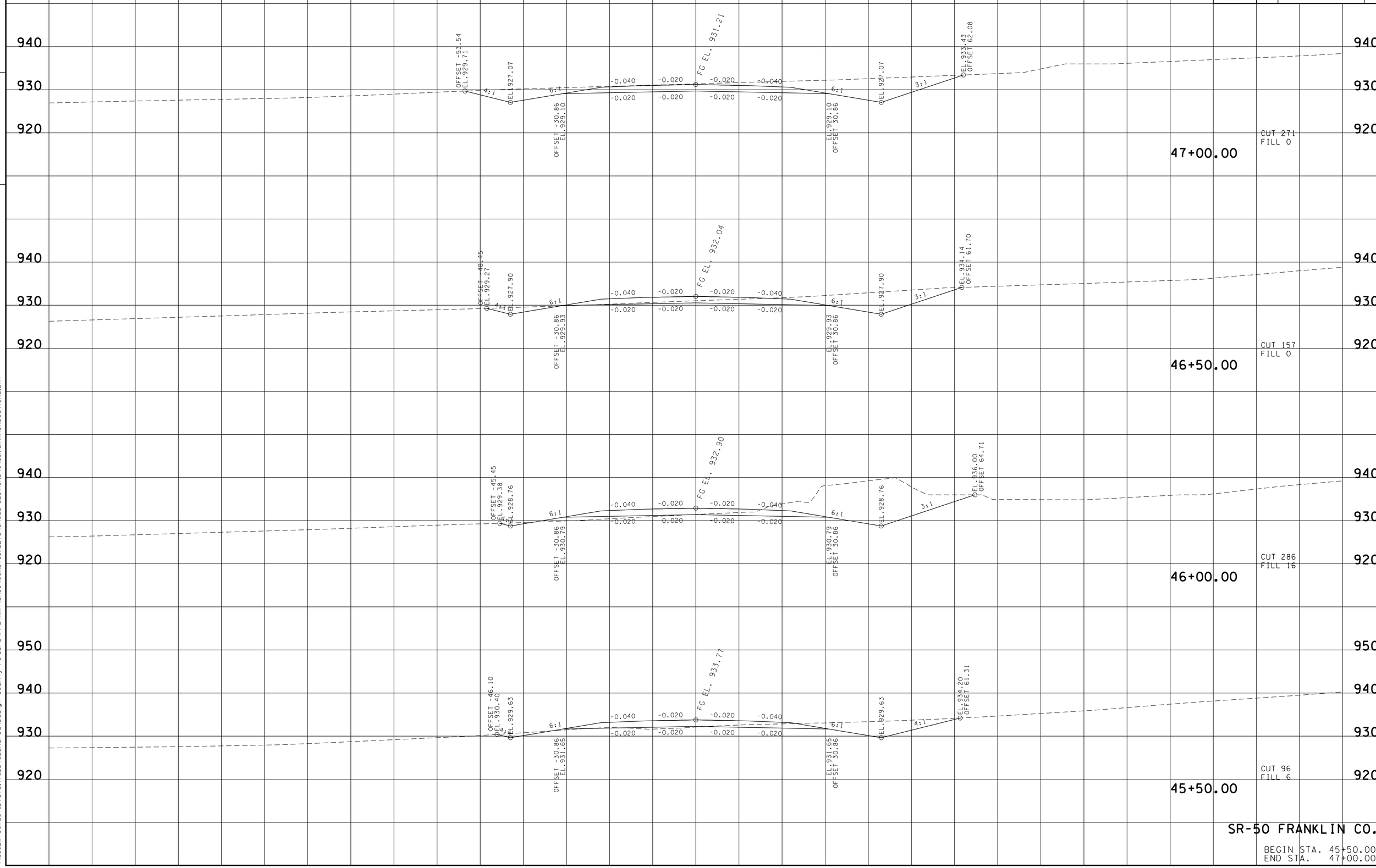
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	39
CONST.	2015	STP-50(31)	49

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



SR-50 FRANKLIN CO.

BEGIN STA. 45+50.00
END STA. 47+00.00

23-OCT-2014 13:34
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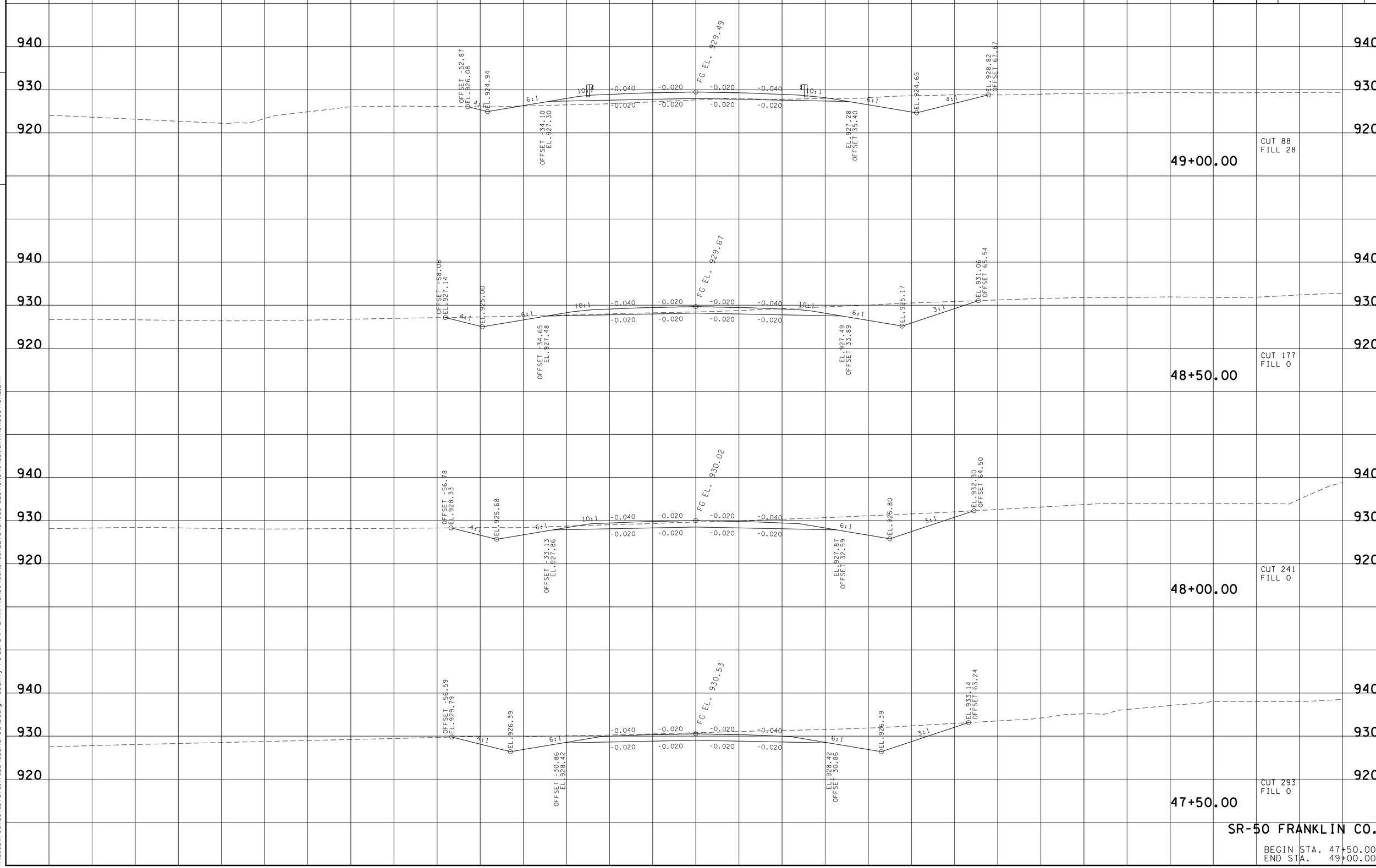
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	40
CONST.	2015	STP-50(31)	50

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 47+50.00
END STA. 49+00.00

23-OCT-2014 13:34
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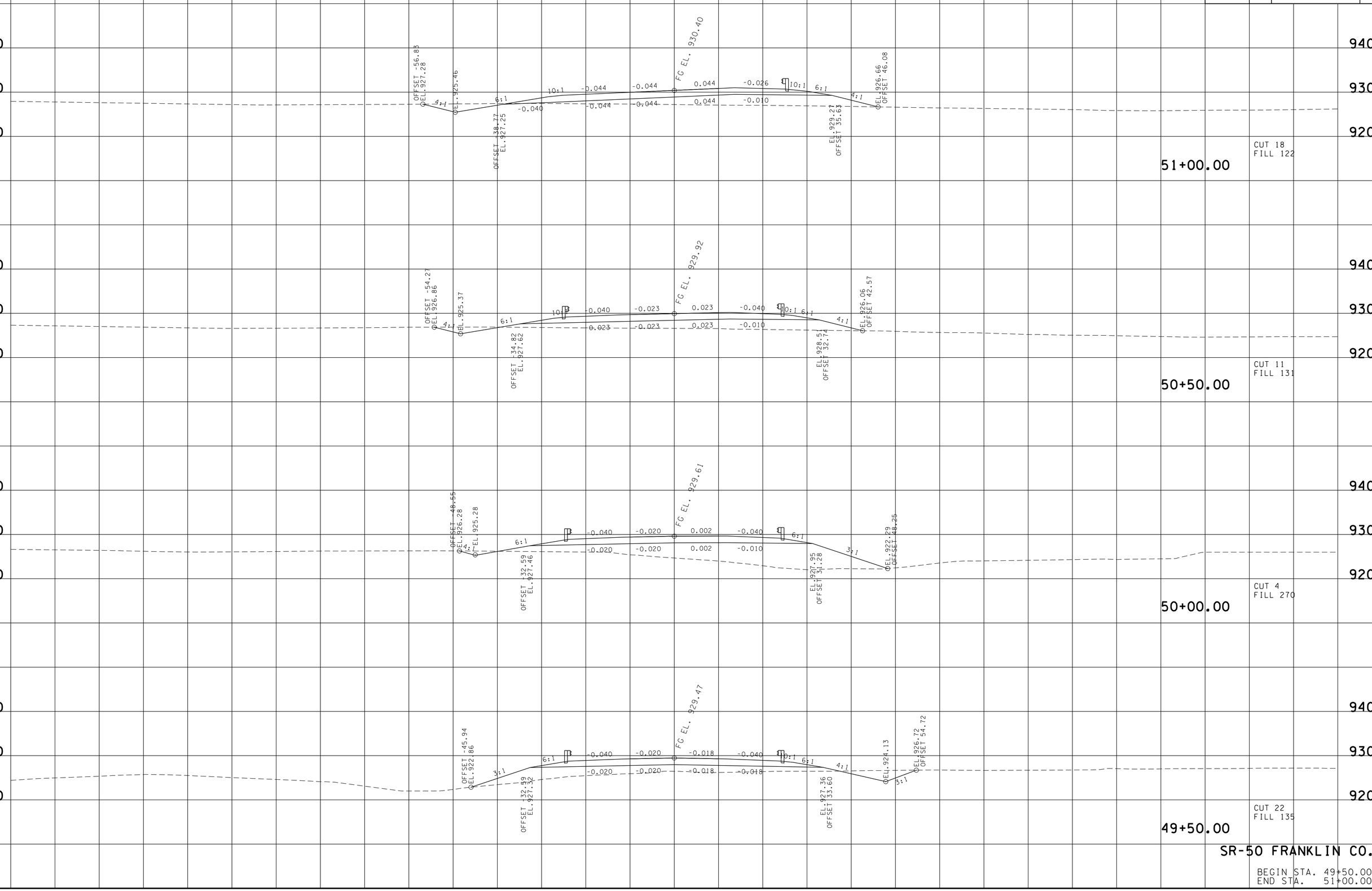
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	41
CONST.	2015	STP-50(31)	51

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



SR-50 FRANKLIN CO.

BEGIN STA. 49+50.00
END STA. 51+00.00

23-OCT-2014 13:34
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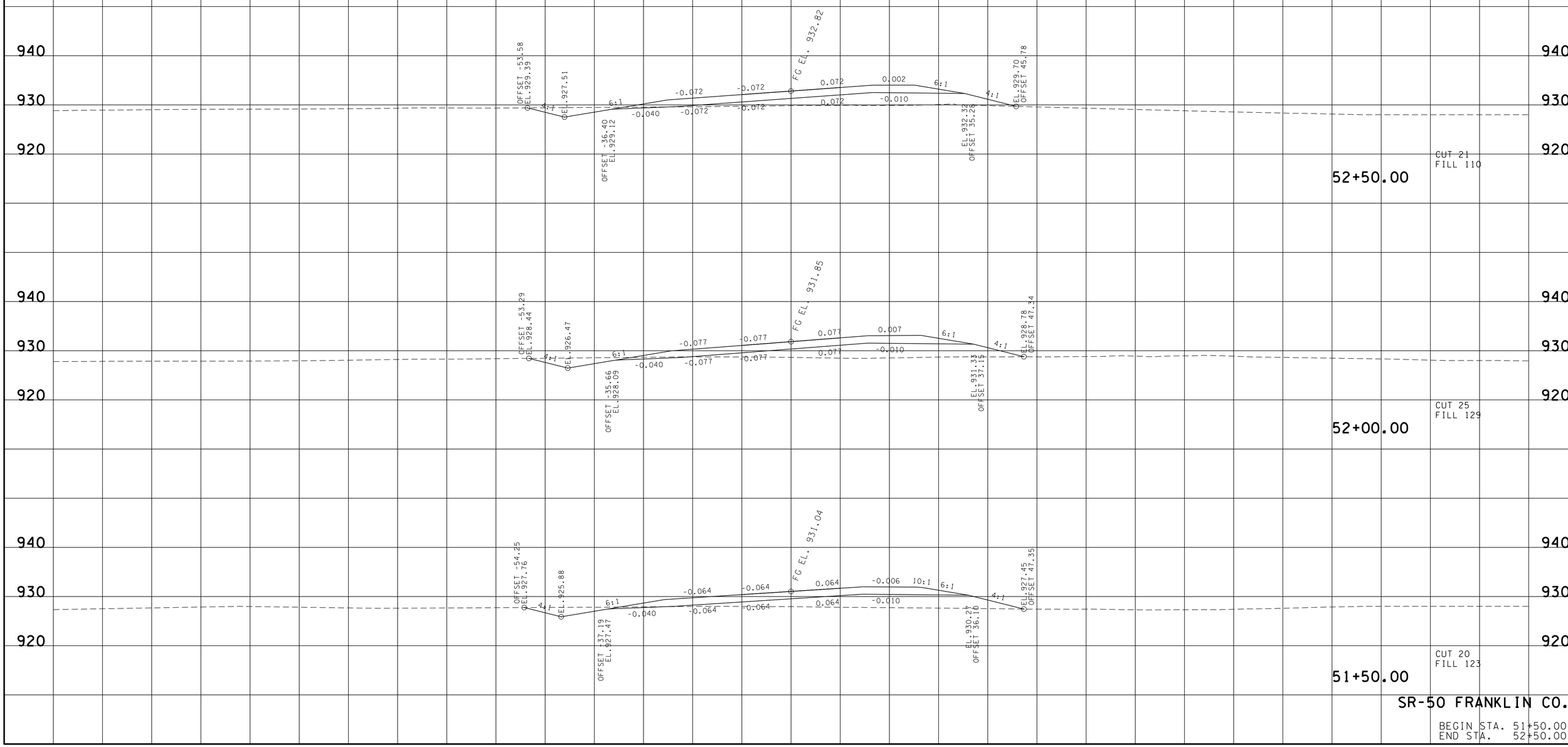
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	42
CONST.	2015	STP-50(31)	52

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 51+50.00
END STA. 52+50.00

23-OCT-2014 13:34
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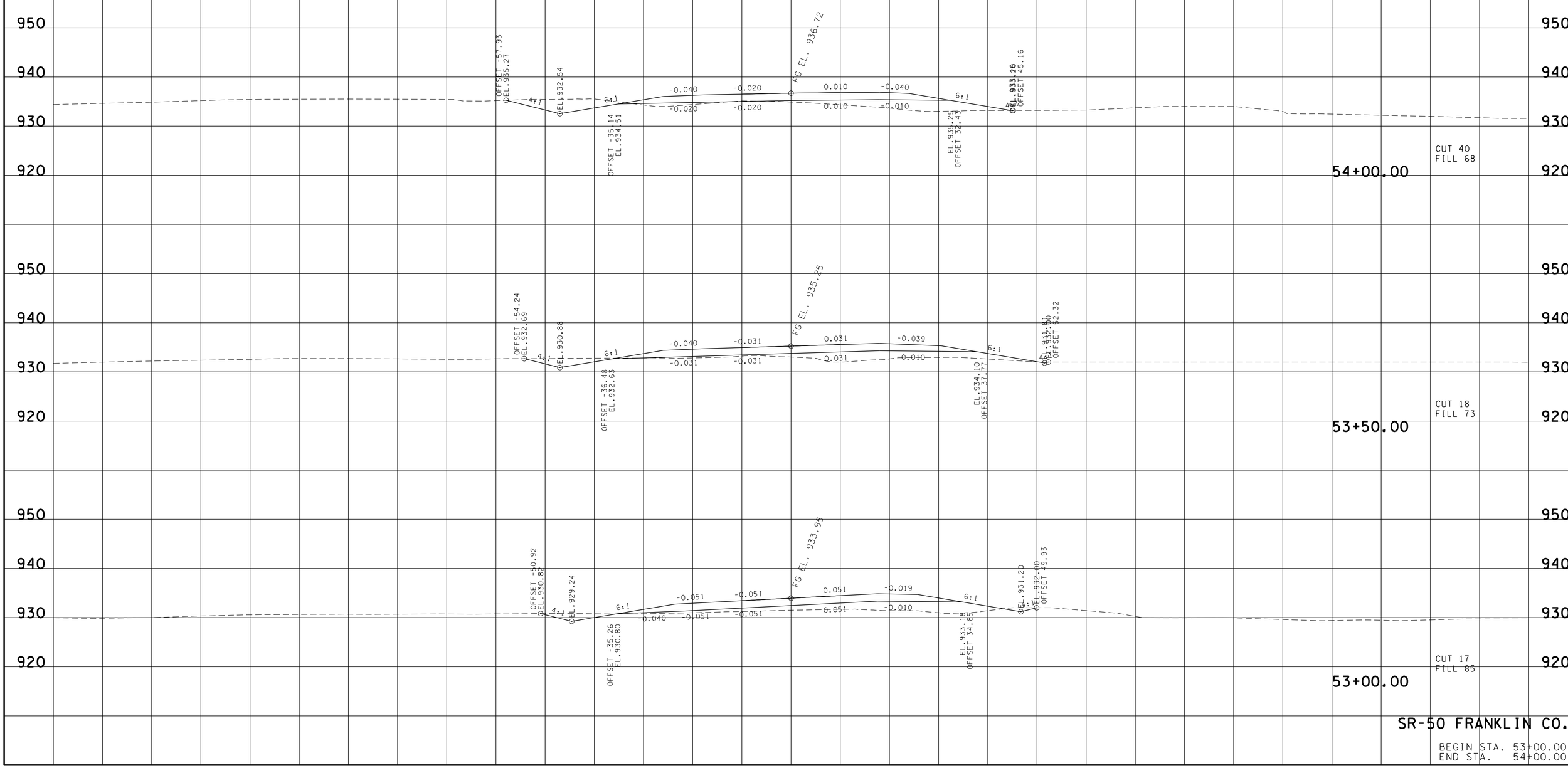
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	43
CONST.	2015	STP-50(31)	53

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 53+00.00
END STA. 54+00.00

23-OCT-2014 13:34
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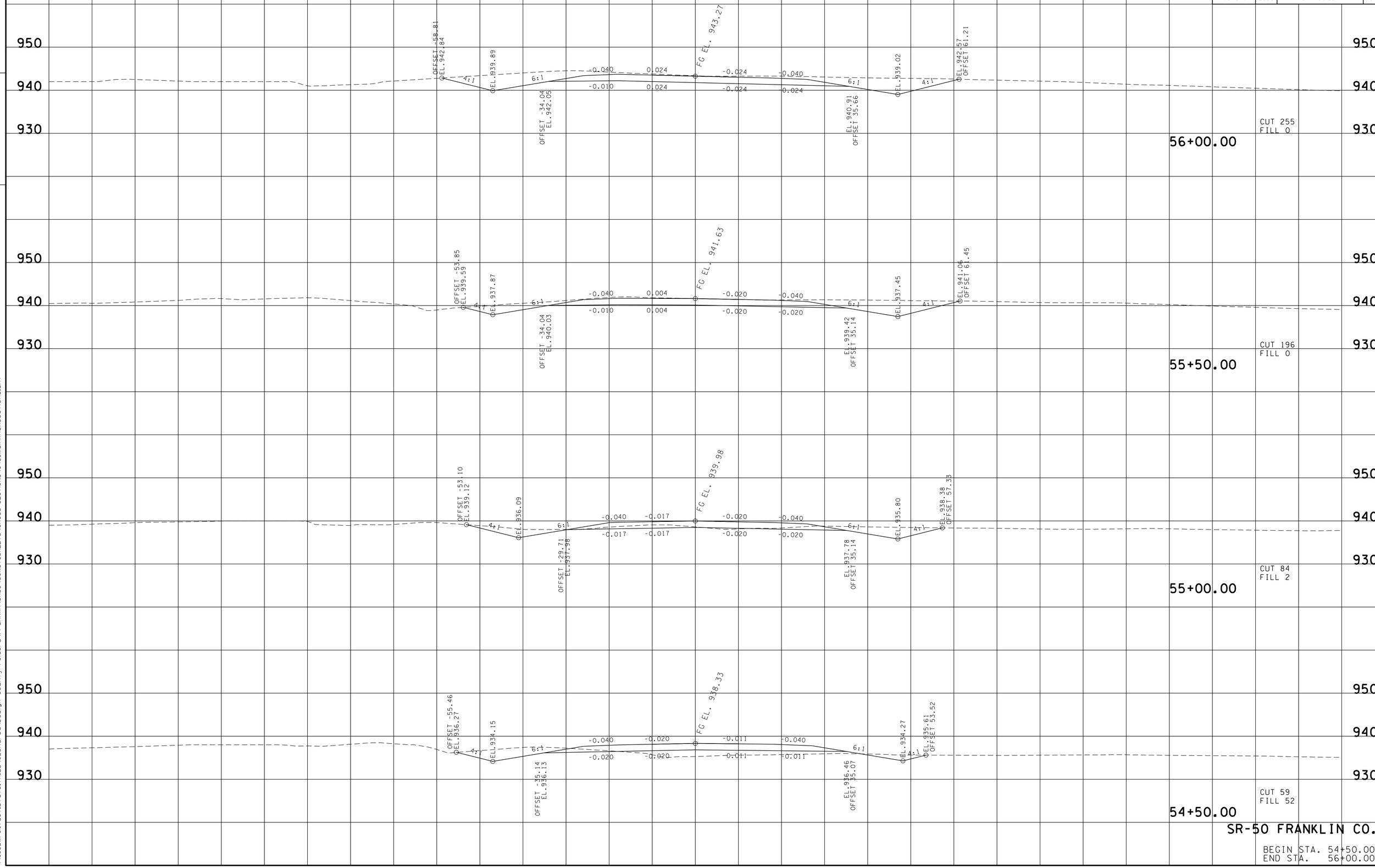
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	44
CONST.	2015	STP-50(31)	54

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 54+50.00
END STA. 56+00.00

23-OCT-2014 13:34
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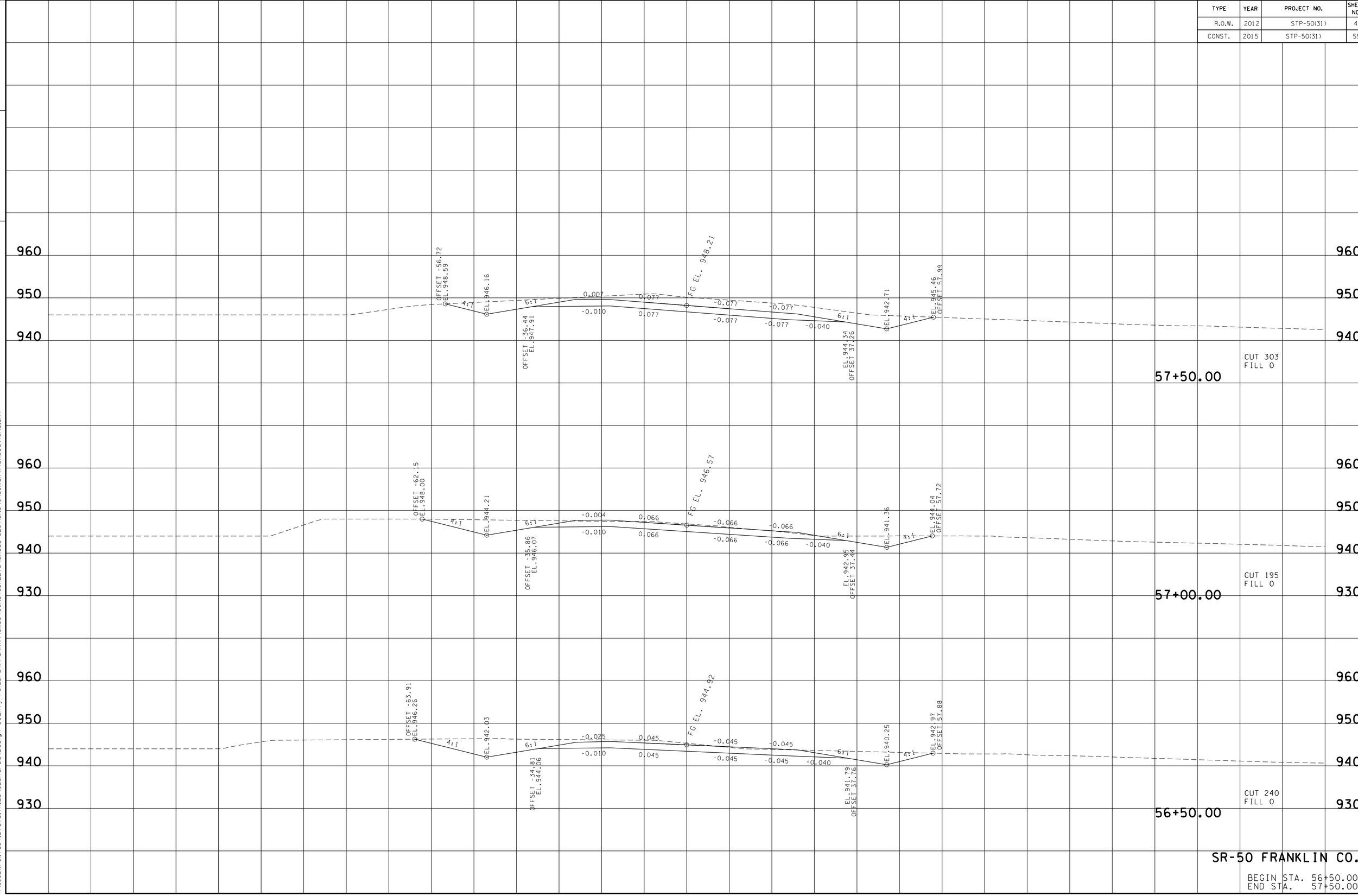
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	45
CONST.	2015	STP-50(31)	55

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 56+50.00
END STA. 57+50.00

23-OCT-2014 13:34
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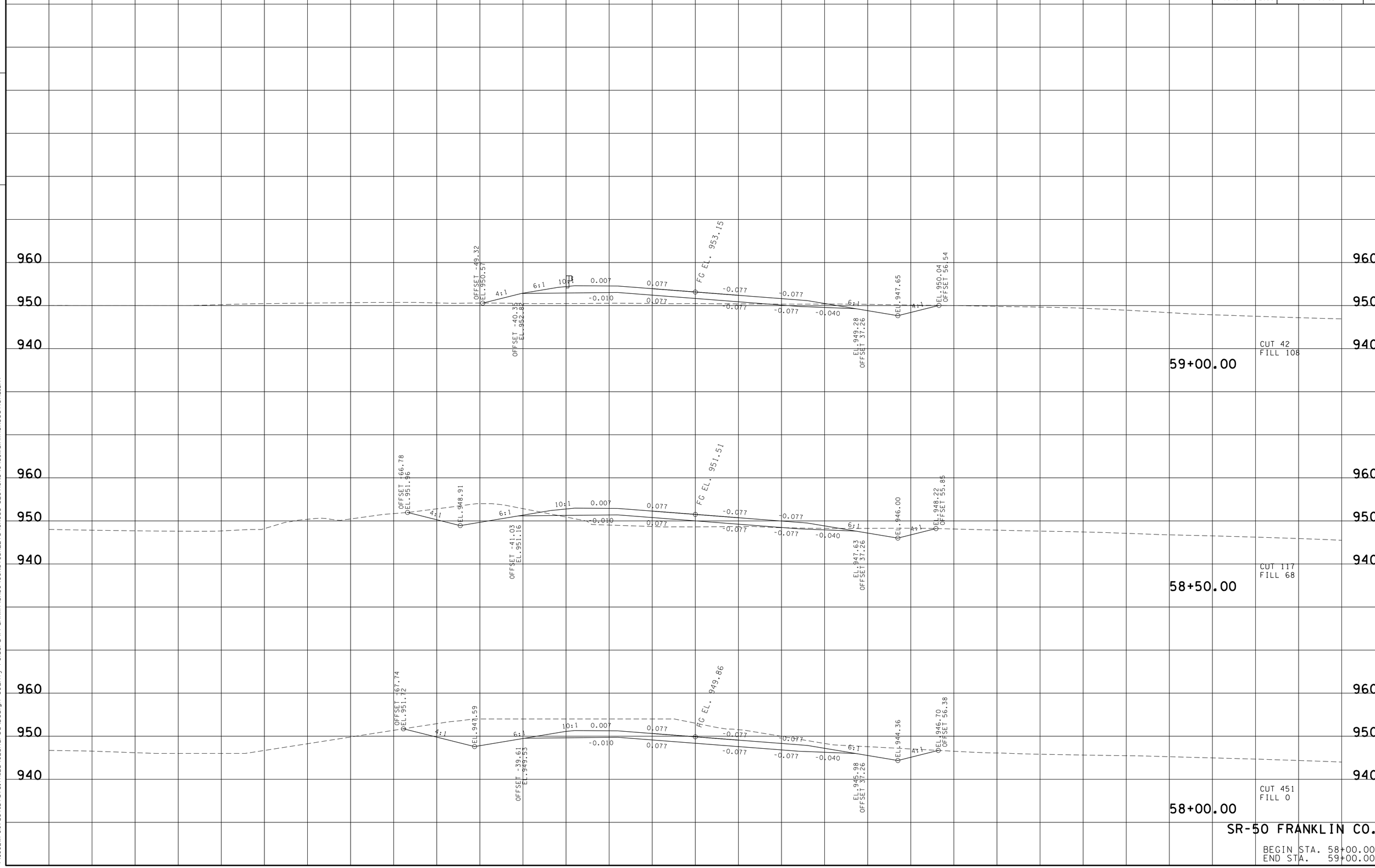
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	46
CONST.	2015	STP-50(31)	56



SR-50 FRANKLIN CO.

BEGIN STA. 58+00.00
END STA. 59+00.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

23-OCT-2014 13:34
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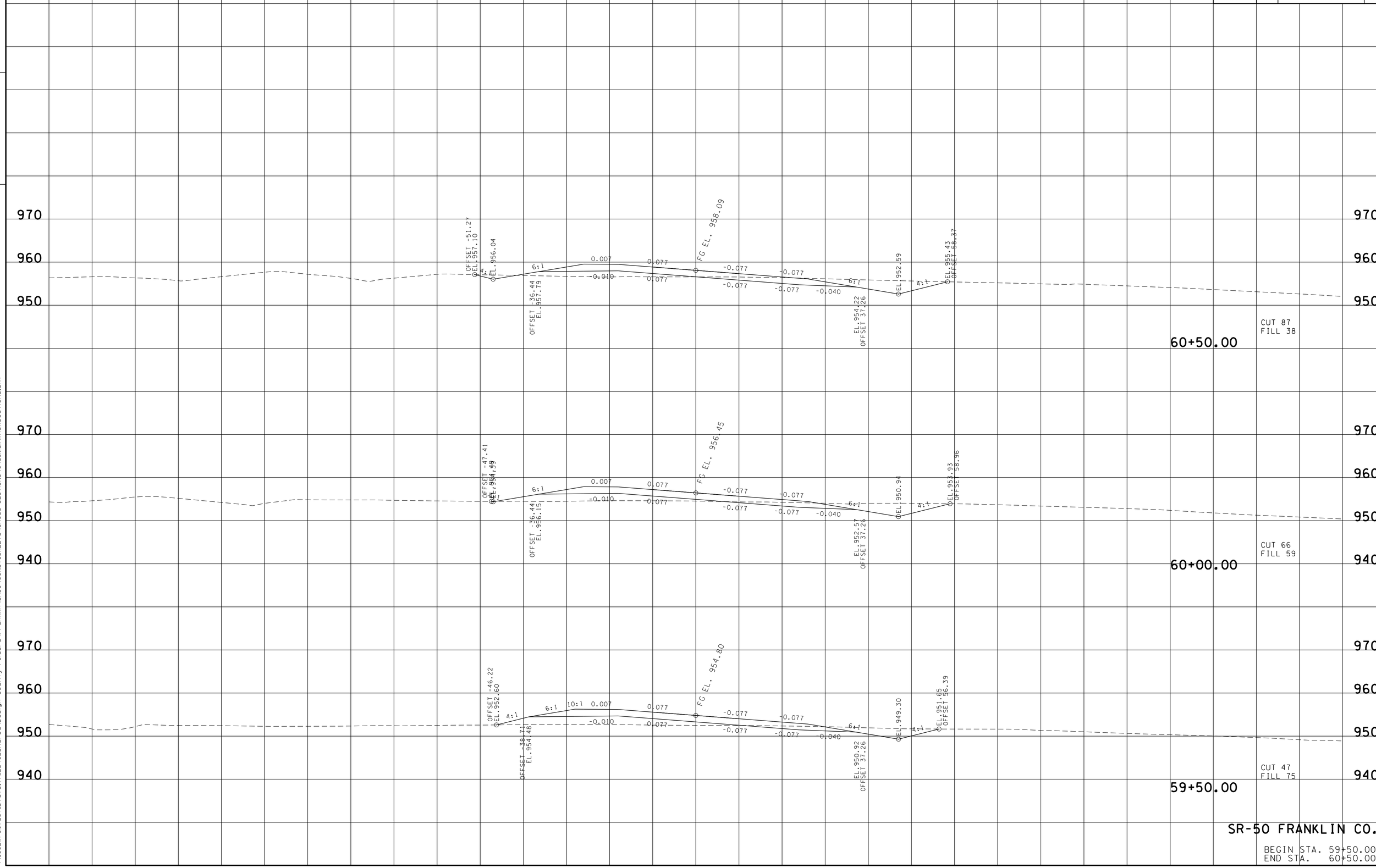
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	47
CONST.	2015	STP-50(31)	57

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 59+50.00
END STA. 60+50.00

23-OCT-2014 13:34
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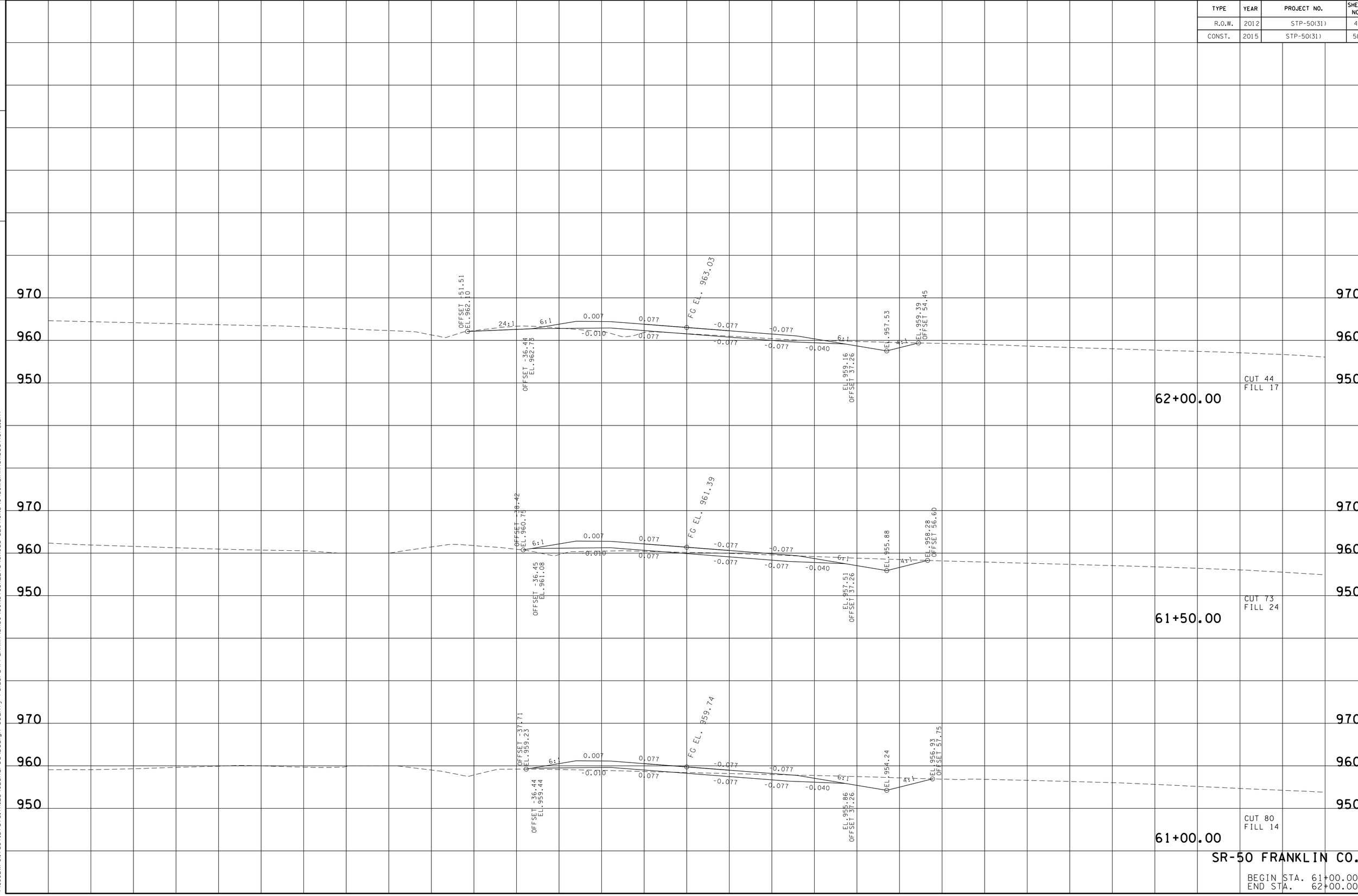
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	48
CONST.	2015	STP-50(31)	58



SR-50 FRANKLIN CO.

BEGIN STA. 61+00.00
END STA. 62+00.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

23-OCT-2014 13:34
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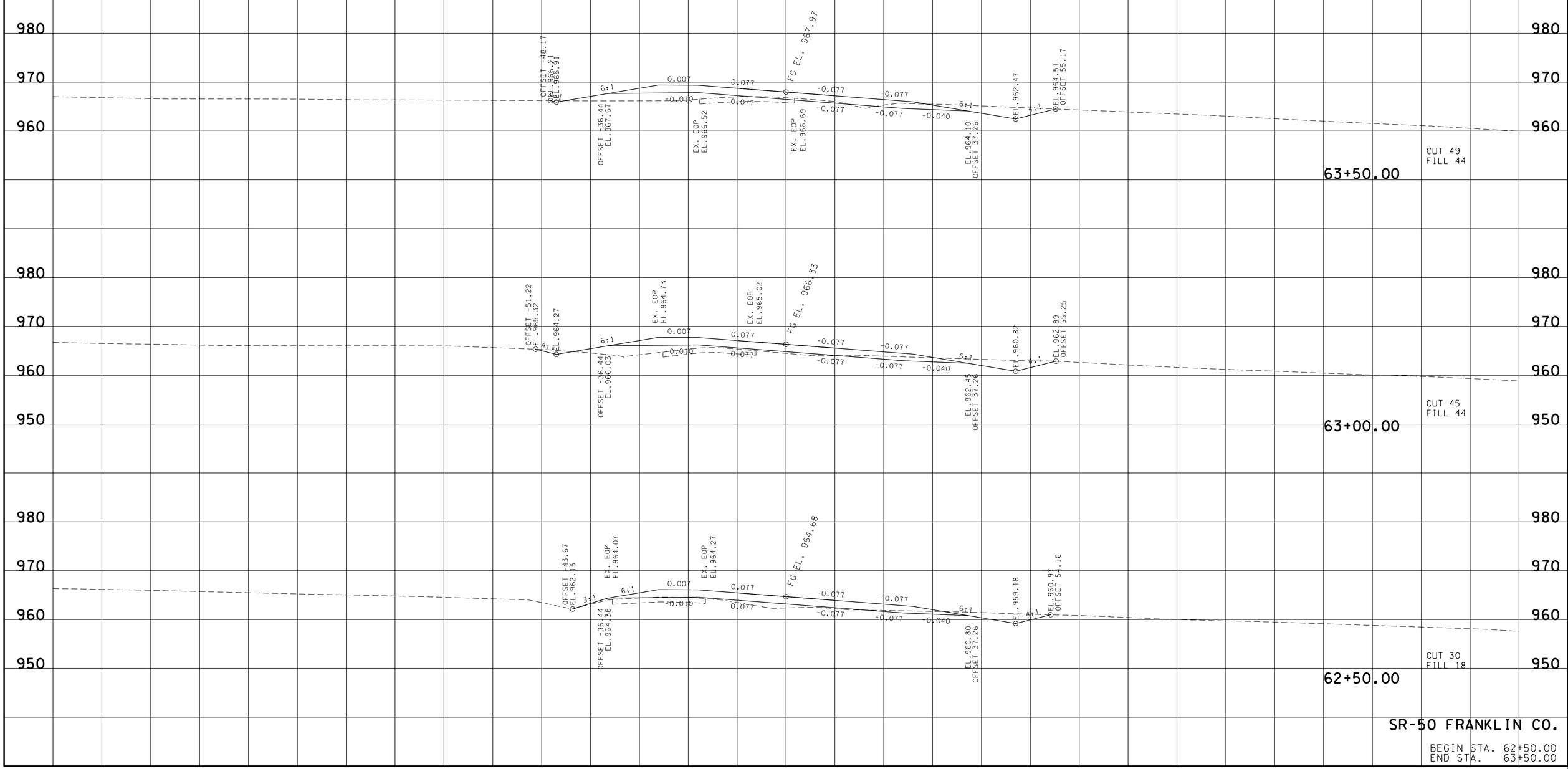
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	49
CONST.	2015	STP-50(31)	59

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 62+50.00
END STA. 63+50.00

23-OCT-2014 13:34
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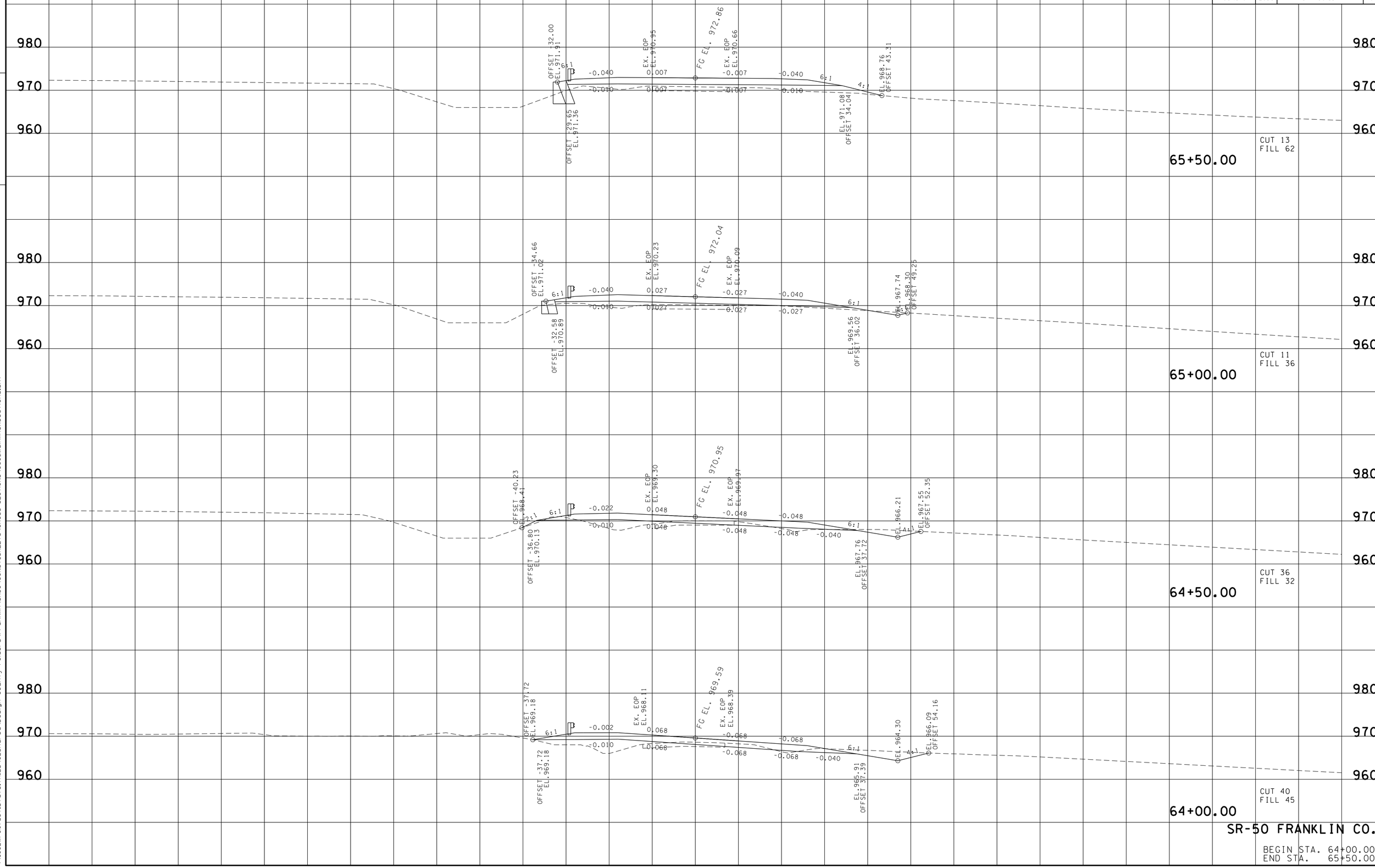
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	50
CONST.	2015	STP-50(31)	60



SR-50 FRANKLIN CO.

BEGIN STA. 64+00.00
END STA. 65+50.00

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

23-OCT-2014 13:35
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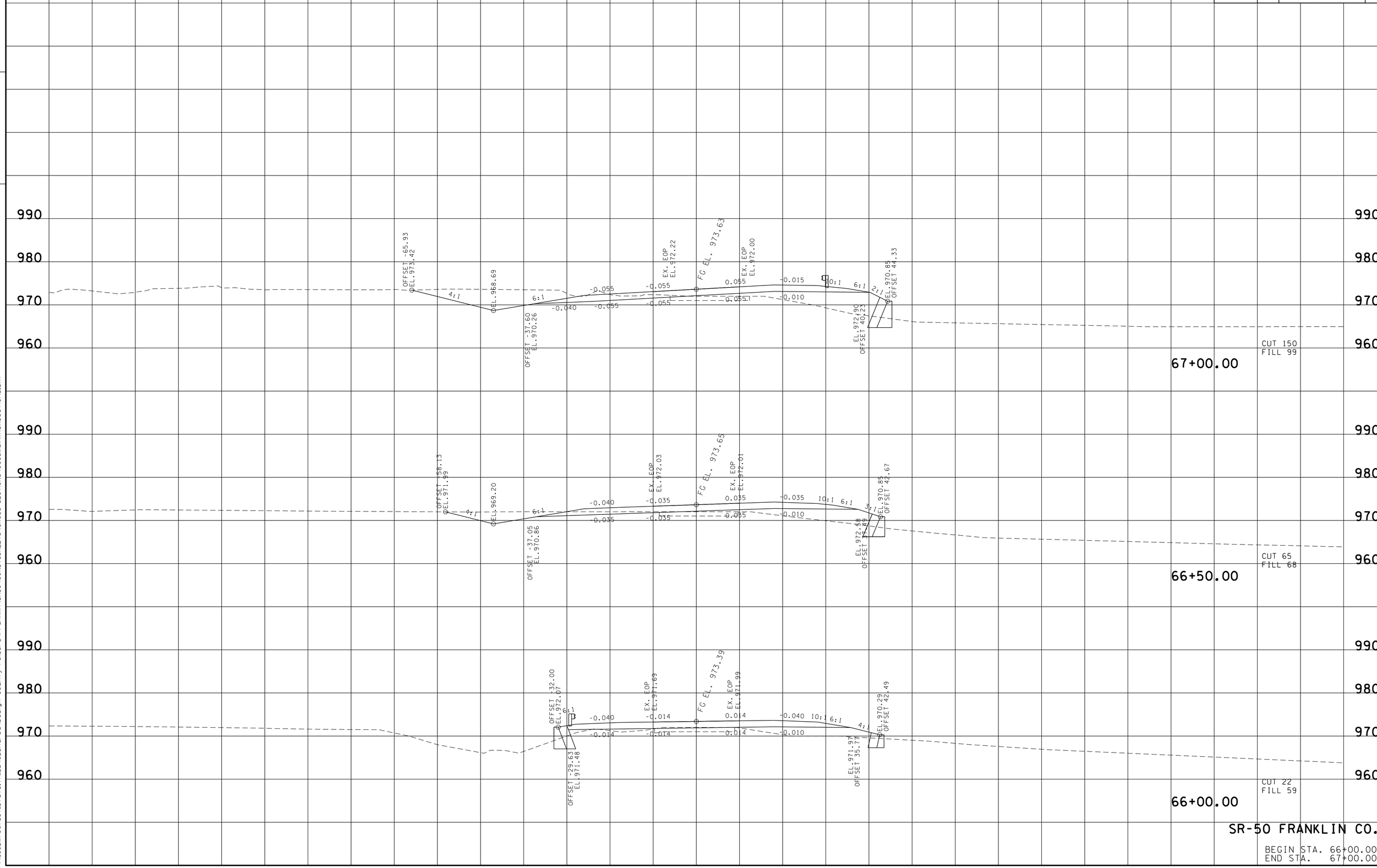
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	51
CONST.	2015	STP-50(31)	61

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 66+00.00
END STA. 67+00.00

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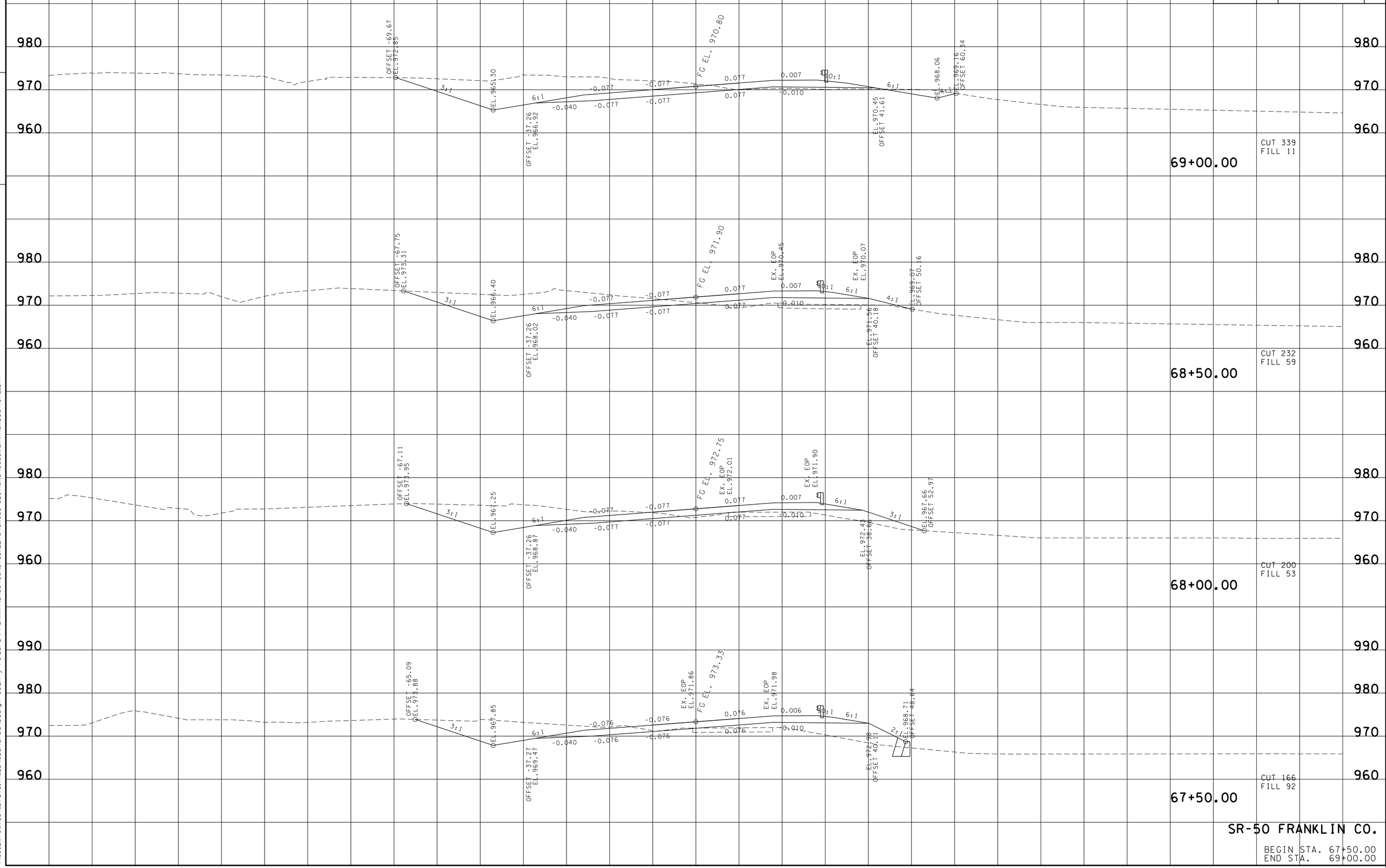
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	52
CONST.	2015	STP-50(31)	62

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



SR-50 FRANKLIN CO.

BEGIN STA. 67+50.00
END STA. 69+00.00

23-OCT-2014 13:35
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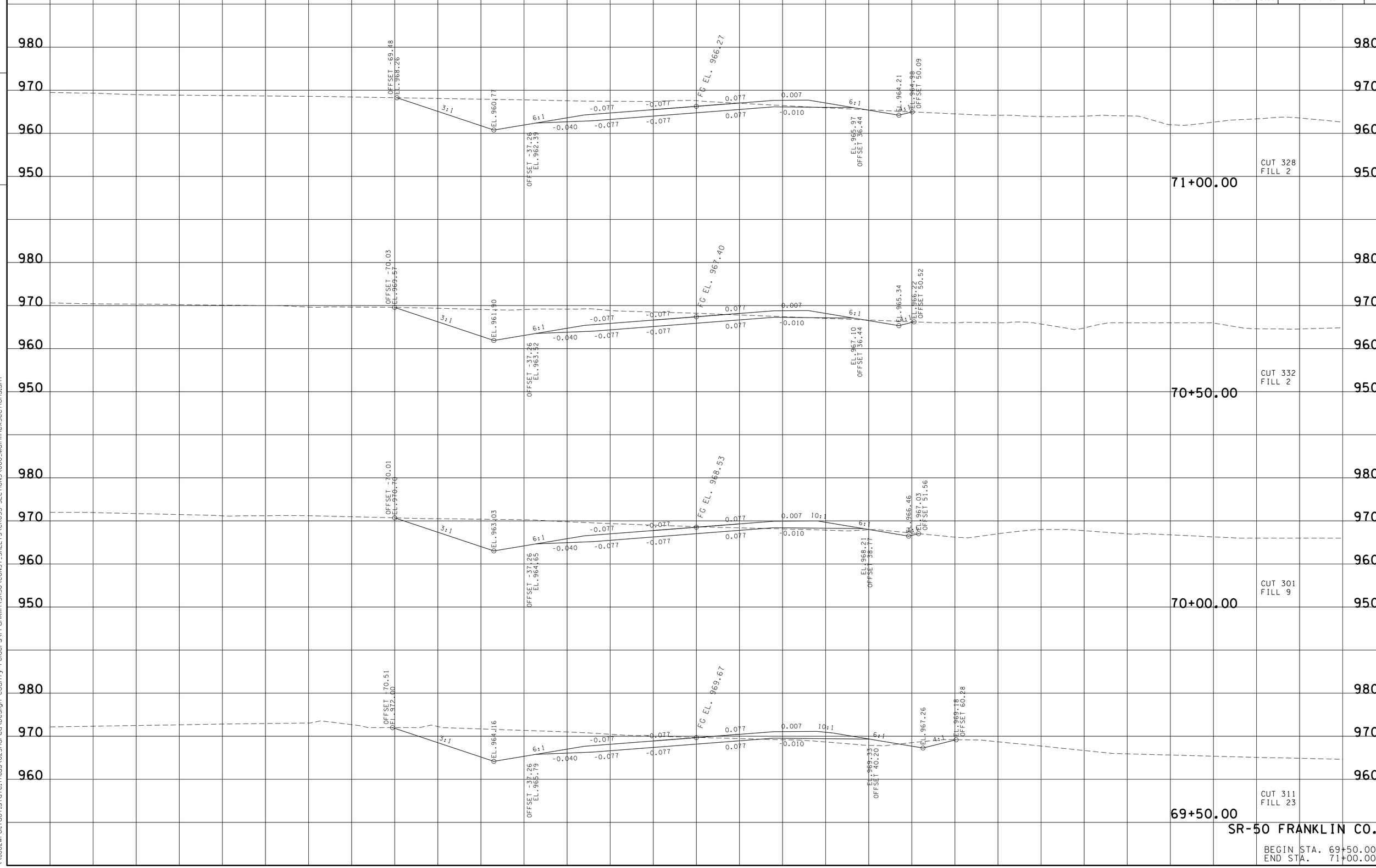
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	53
CONST.	2015	STP-50(31)	63

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 69+50.00
END STA. 71+00.00

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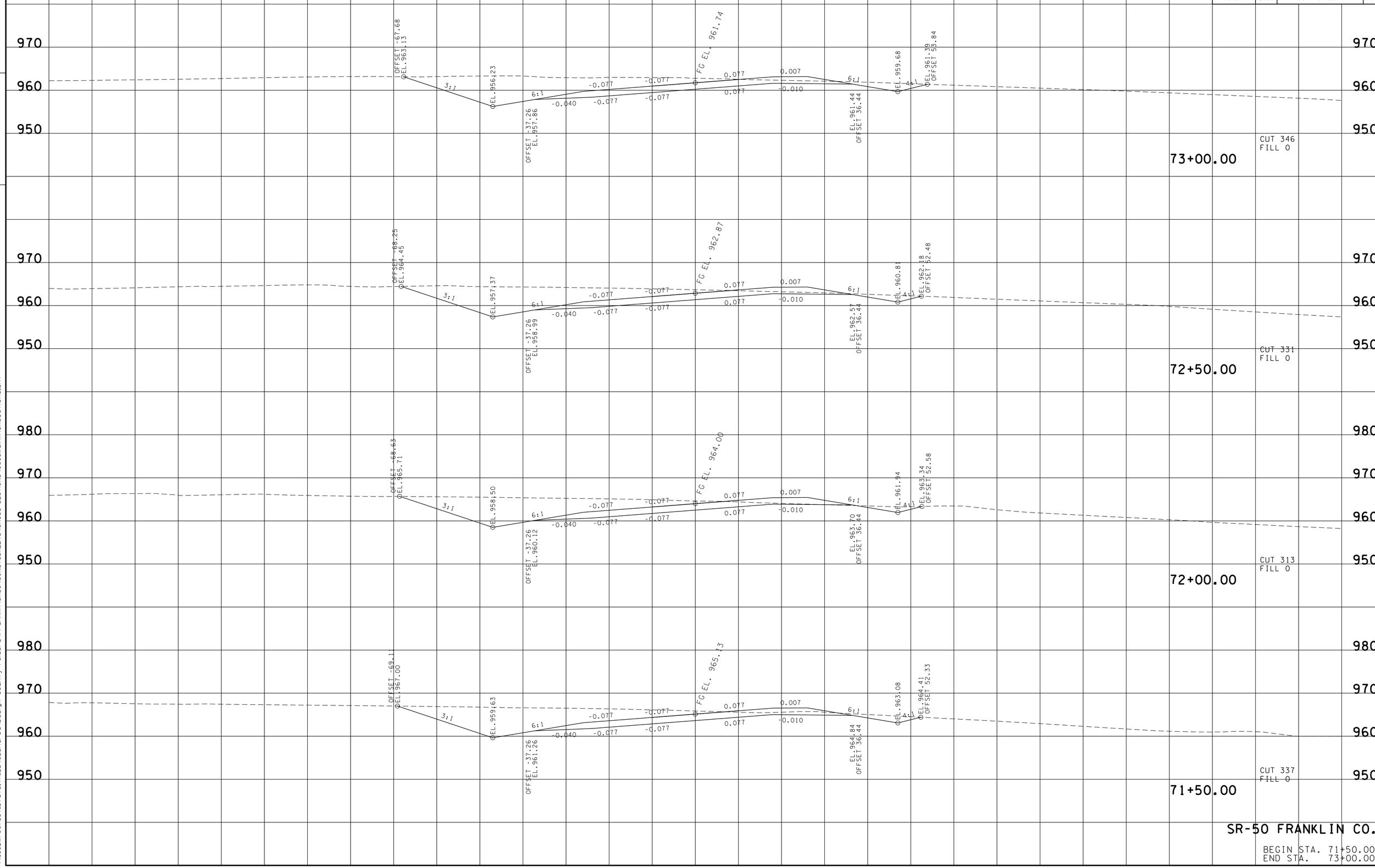
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	54
CONST.	2015	STP-50(31)	64



FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

SR-50 FRANKLIN CO.

BEGIN STA. 71+50.00
END STA. 73+00.00

23-OCT-2014 13:35
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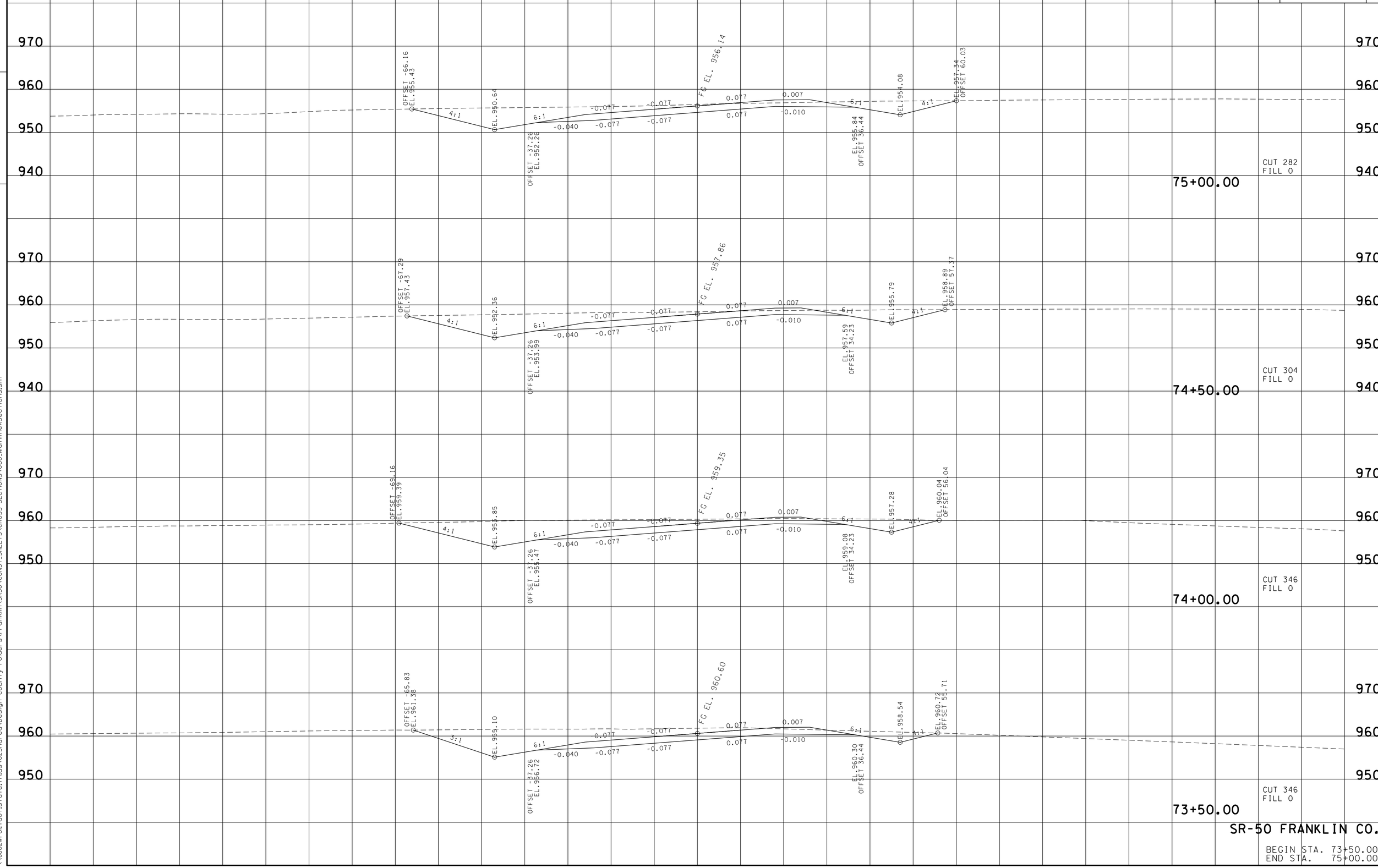
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	55
CONST.	2015	STP-50(31)	65

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 73+50.00
END STA. 75+00.00

23-OCT-2014 13:35
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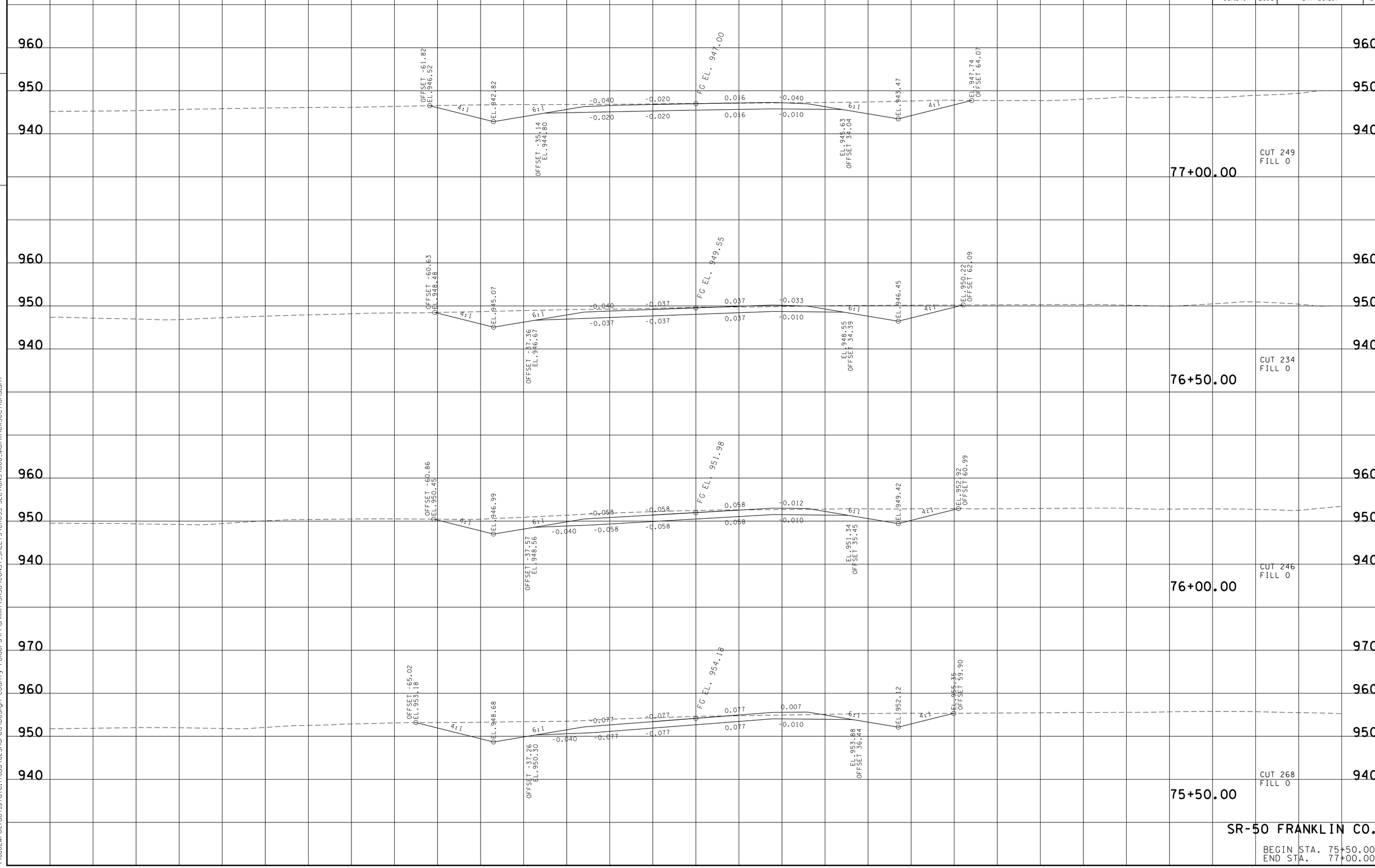
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	56
CONST.	2015	STP-50(31)	66



TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

SR-50 FRANKLIN CO.

BEGIN STA. 75+50.00
END STA. 77+00.00

23-OCT-2014 13:35
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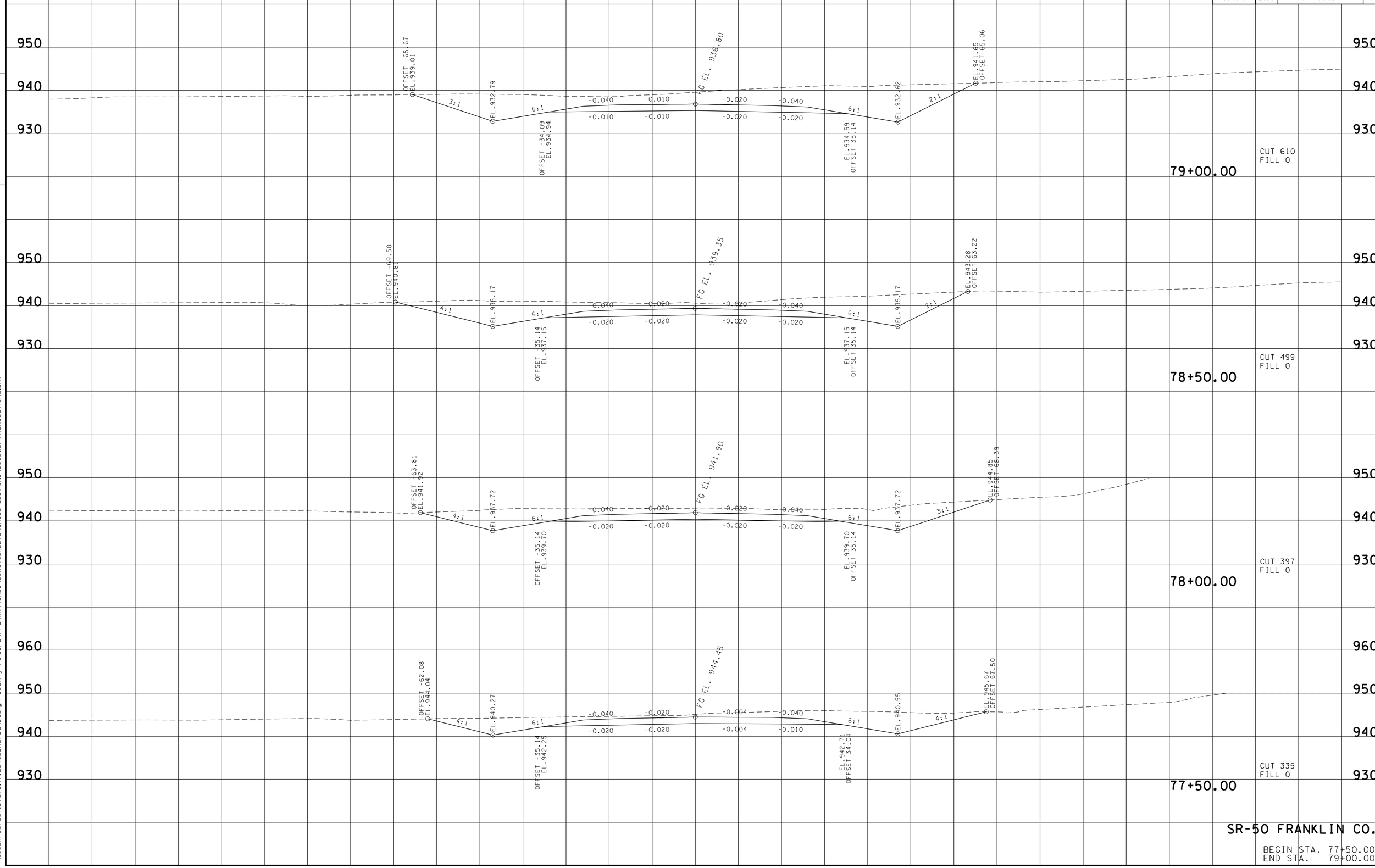
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	57
CONST.	2015	STP-50(31)	67



FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION

SR-50 FRANKLIN CO.

BEGIN STA. 77+50.00
END STA. 79+00.00

23-OCT-2014 13:35
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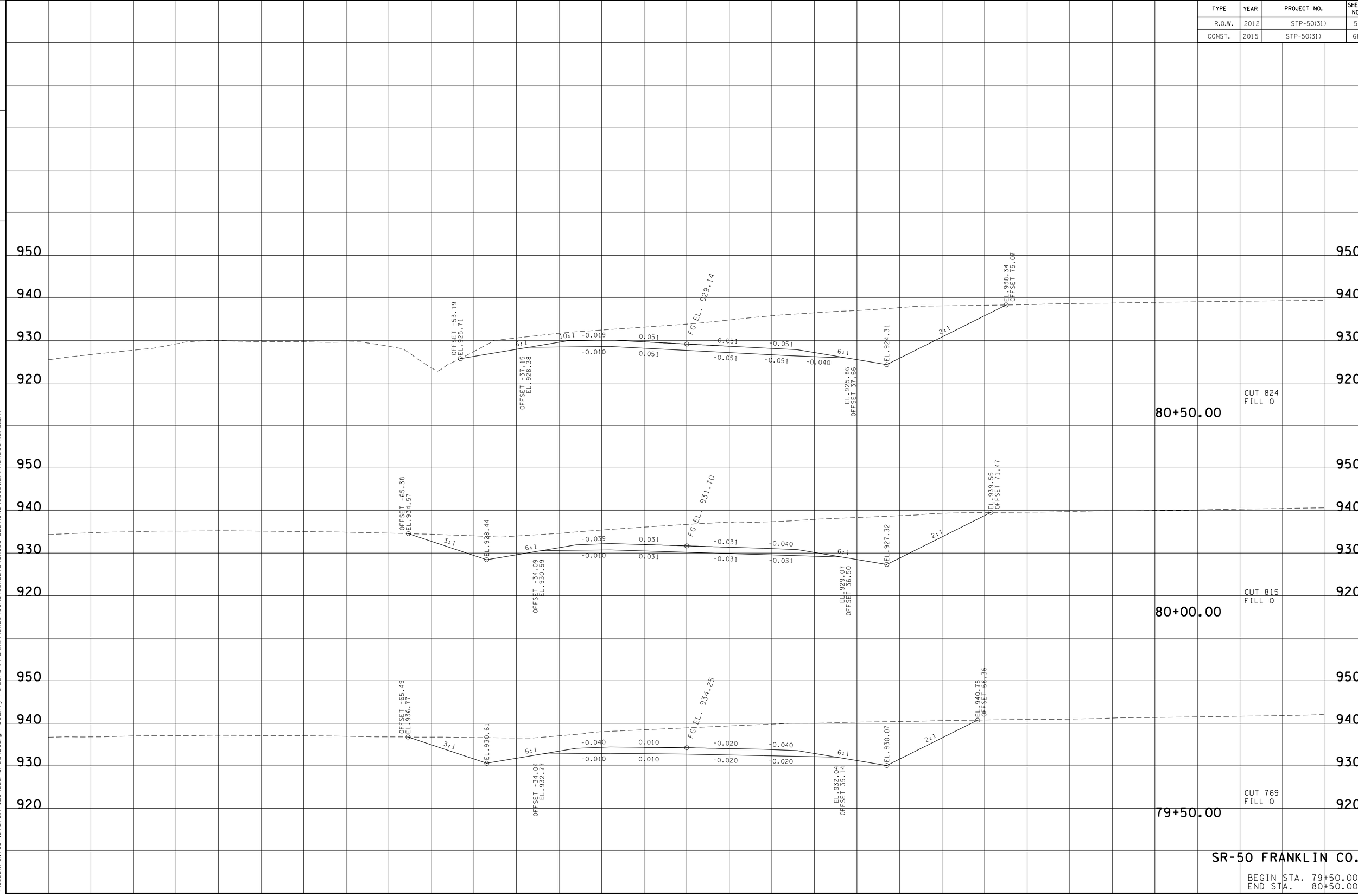
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	58
CONST.	2015	STP-50(31)	68

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 79+50.00
END STA. 80+50.00

23-OCT-2014 13:35
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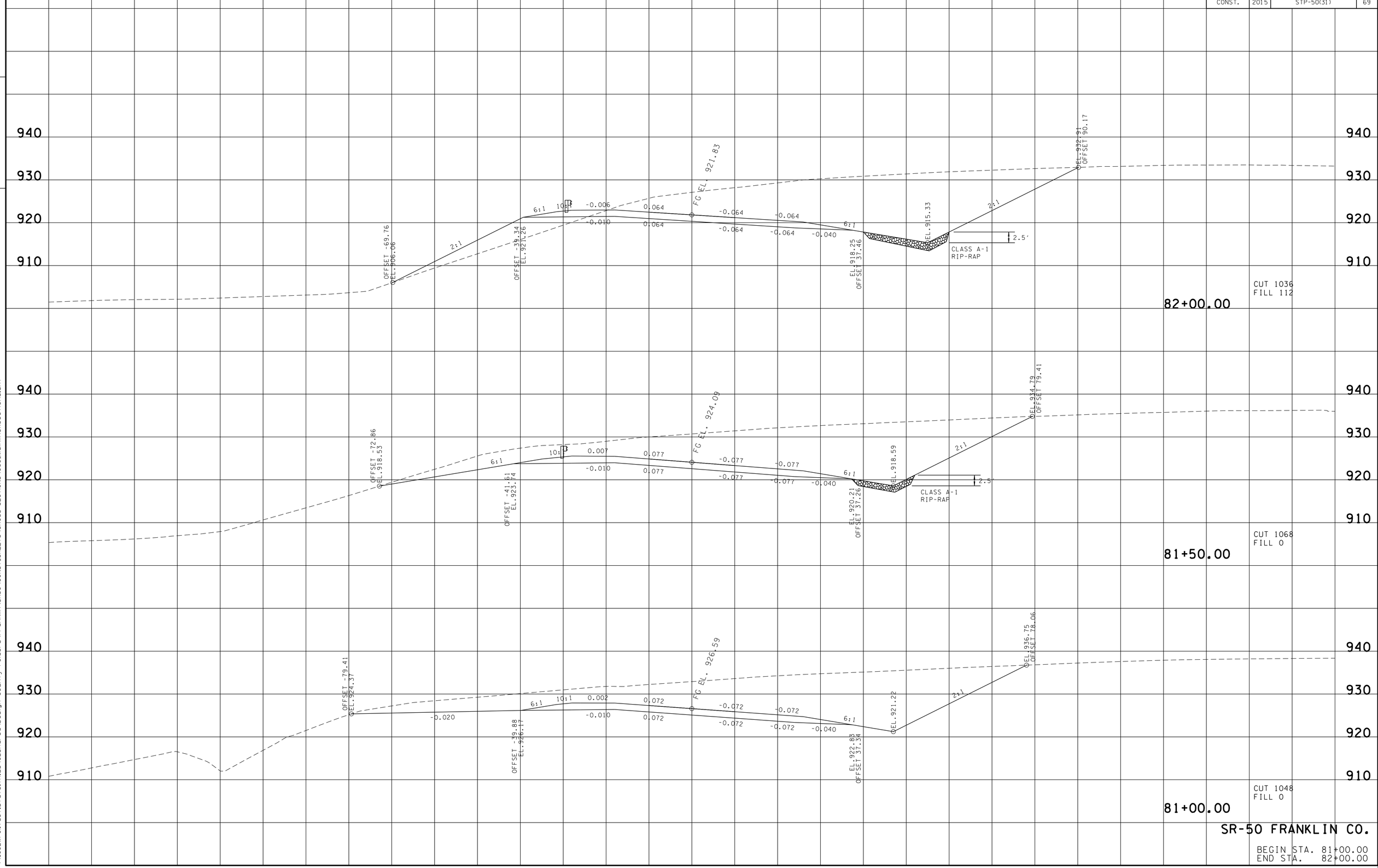
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	59
CONST.	2015	STP-50(31)	69

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 81+00.00
END STA. 82+00.00

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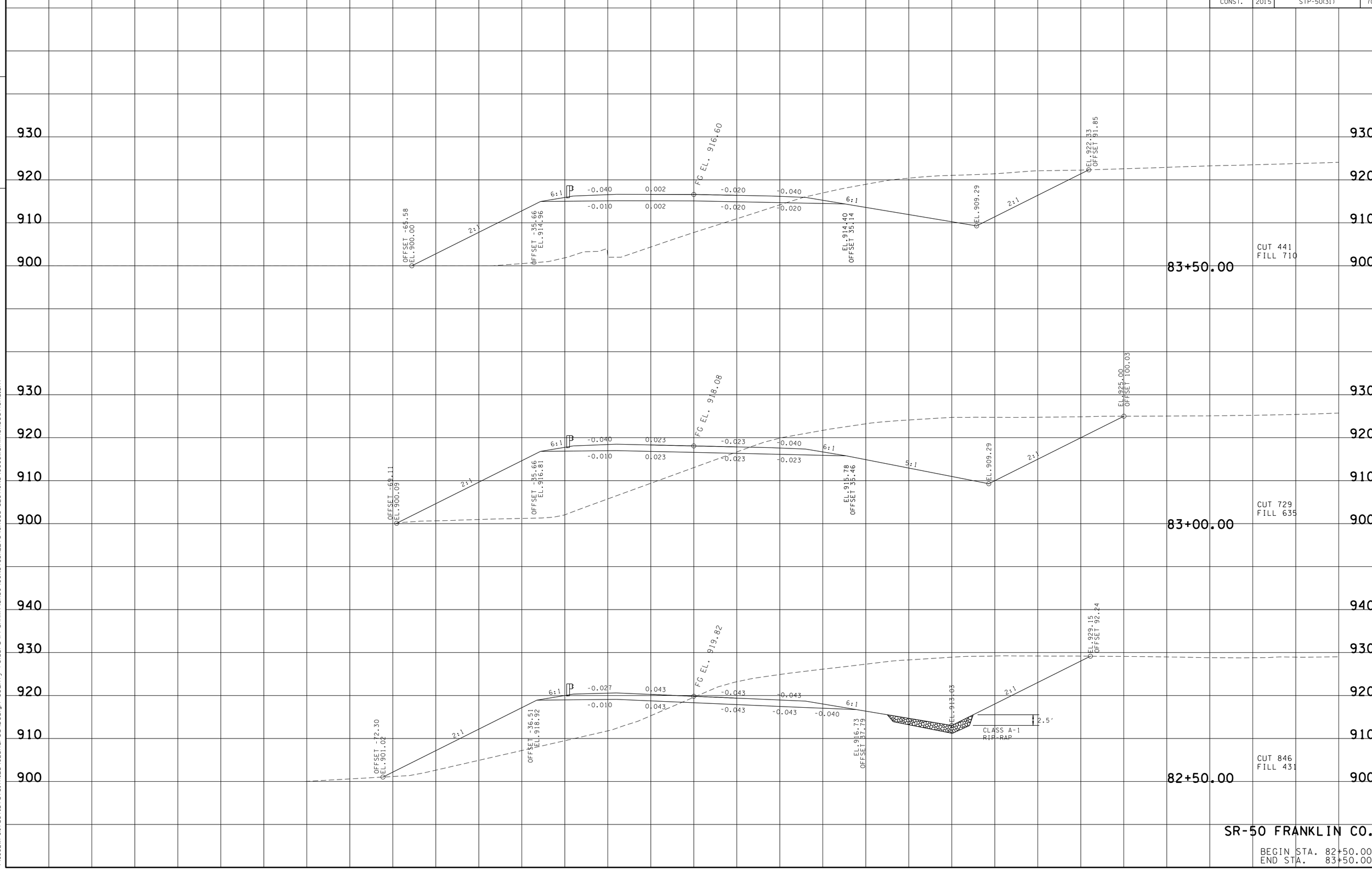
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	60
CONST.	2015	STP-50(31)	70

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 82+50.00
END STA. 83+50.00

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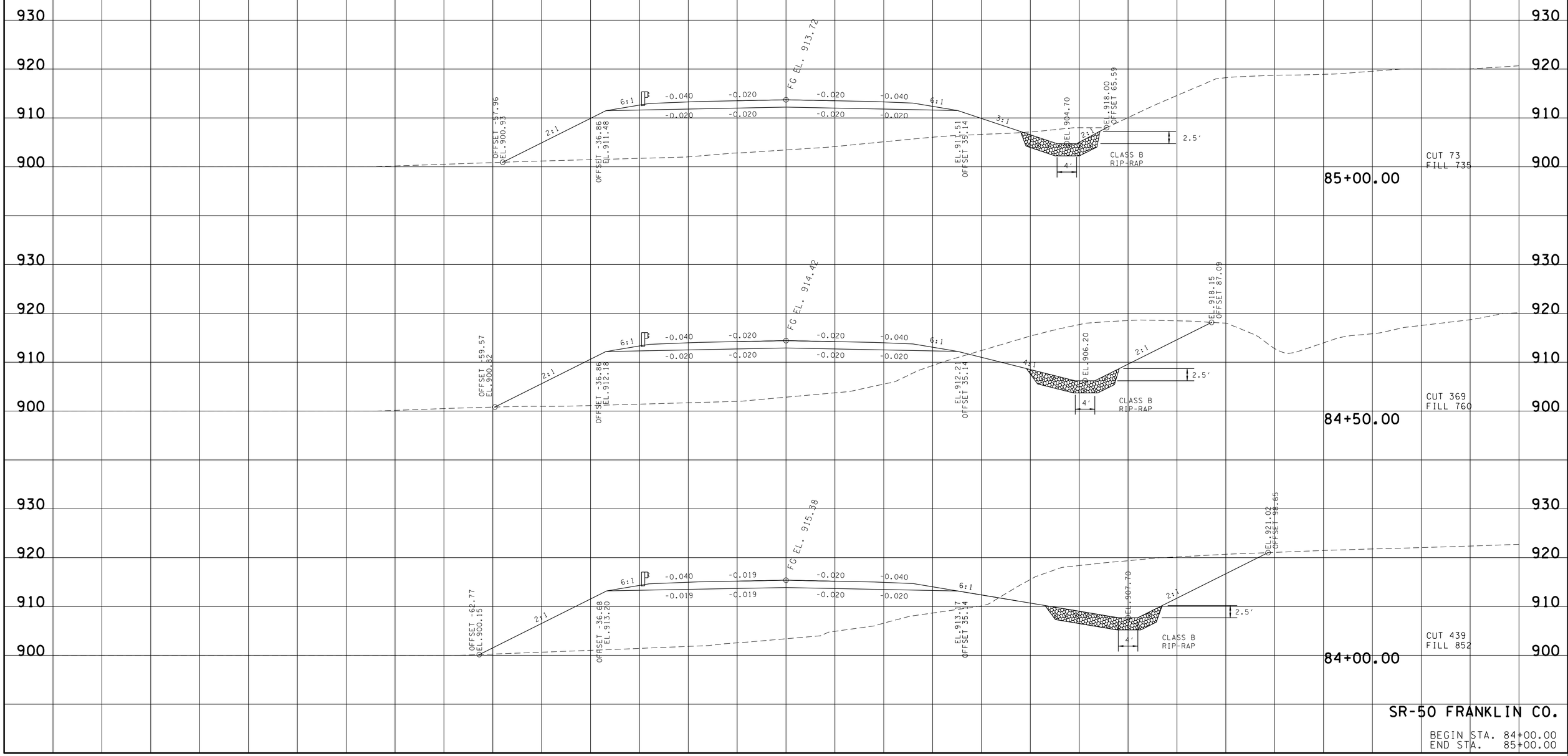
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	61
CONST.	2015	STP-50(31)	71

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-50 FRANKLIN CO.

BEGIN STA. 84+00.00
END STA. 85+00.00

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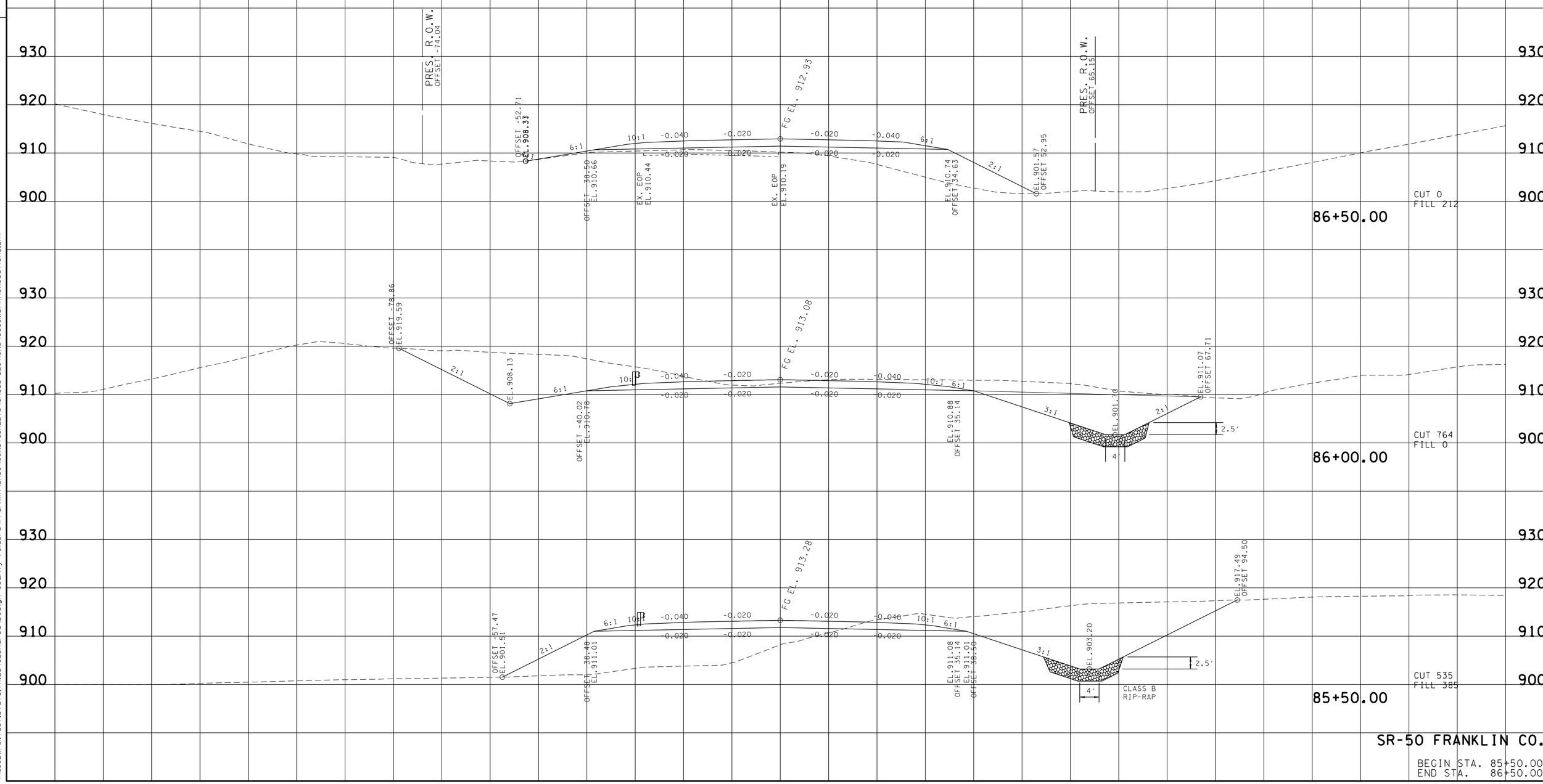
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	62
CONST.	2015	STP-50(31)	72

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 85+50.00
END STA. 86+50.00

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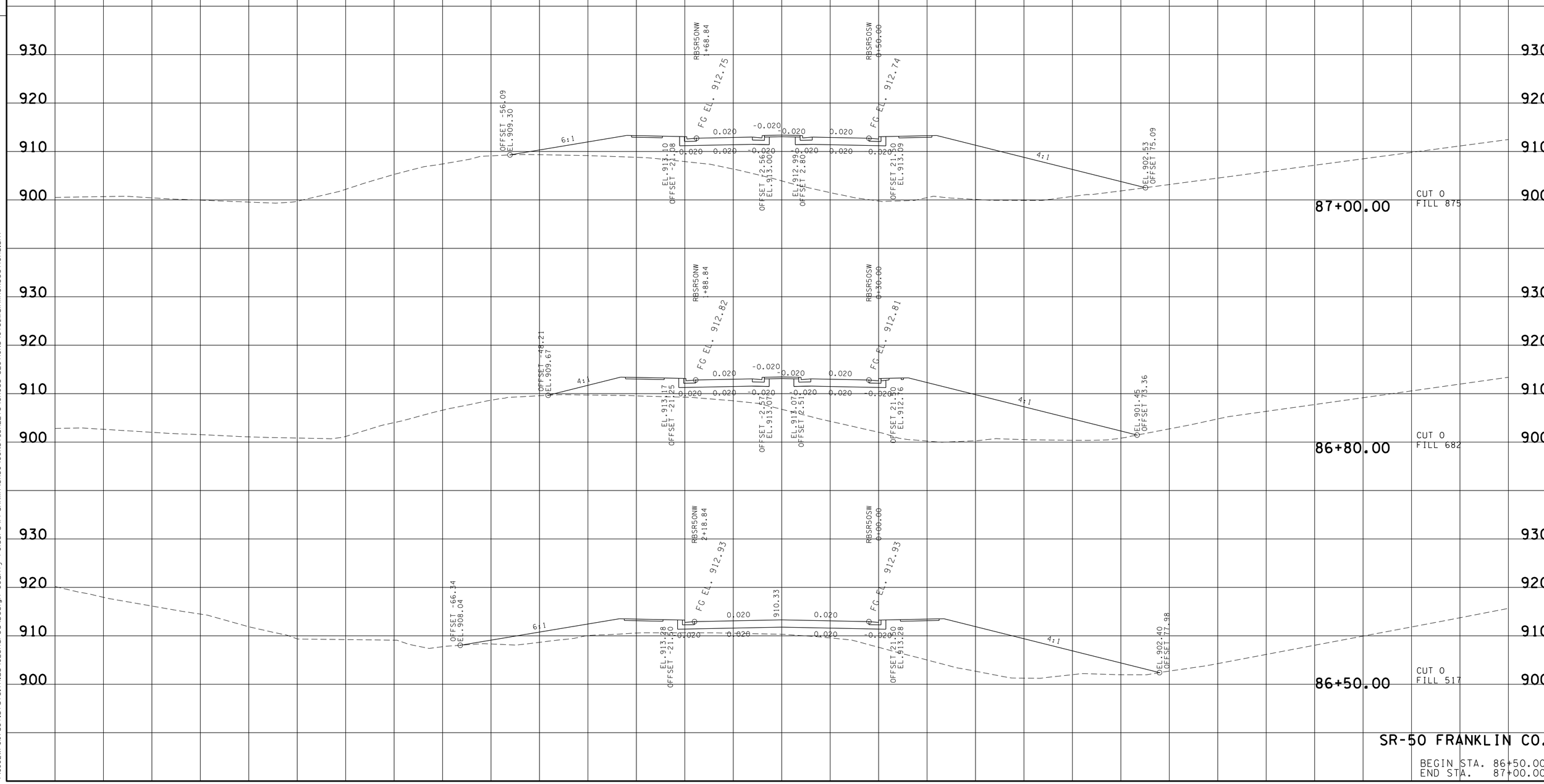
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	63
CONST.	2015	STP-50(31)	73

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-50 FRANKLIN CO.

BEGIN STA. 86+50.00
END STA. 87+00.00

23-OCT-2014 13:36
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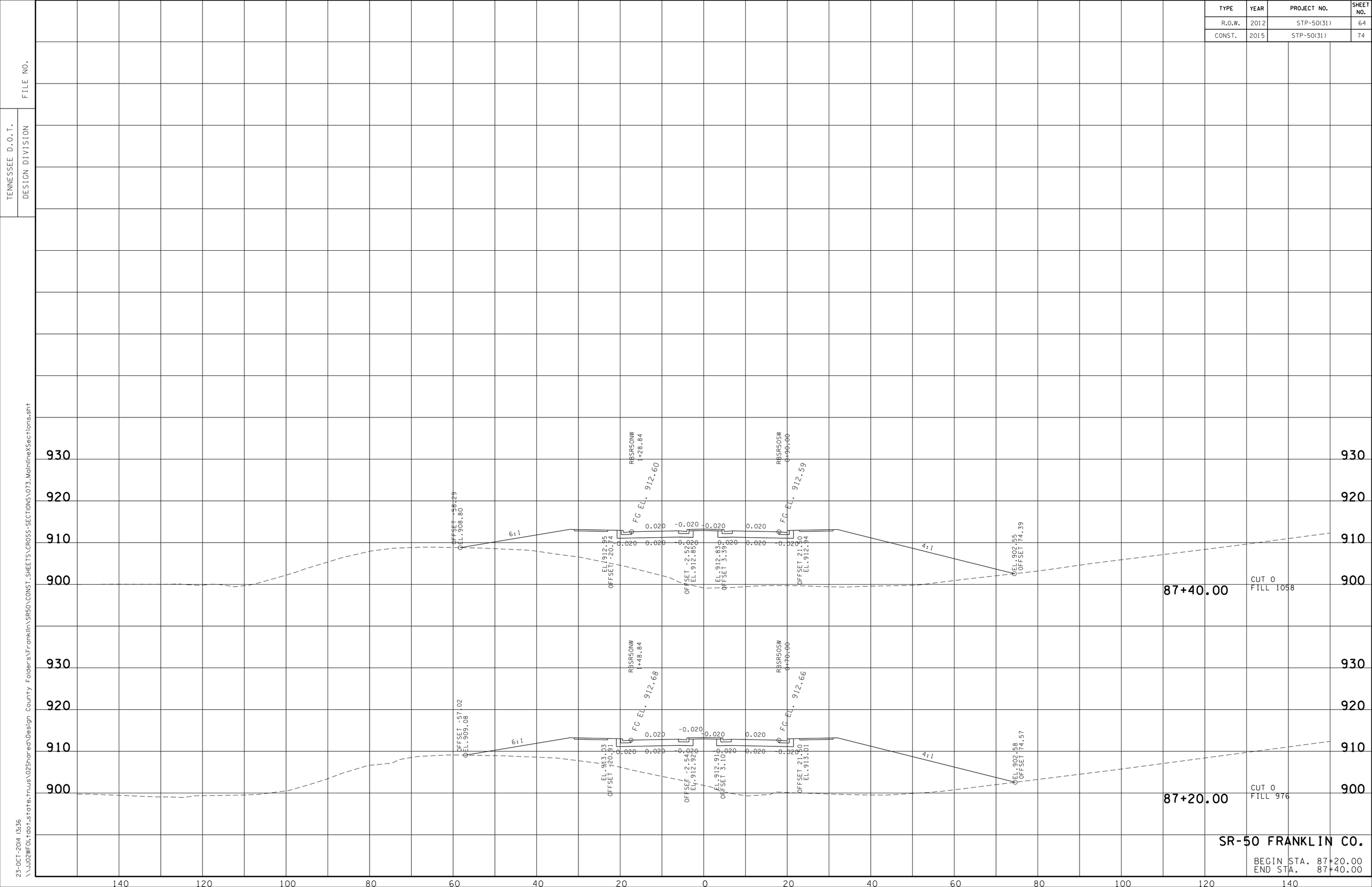
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	64
CONST.	2015	STP-50(31)	74



SR-50 FRANKLIN CO.

BEGIN STA. 87+20.00
END STA. 87+40.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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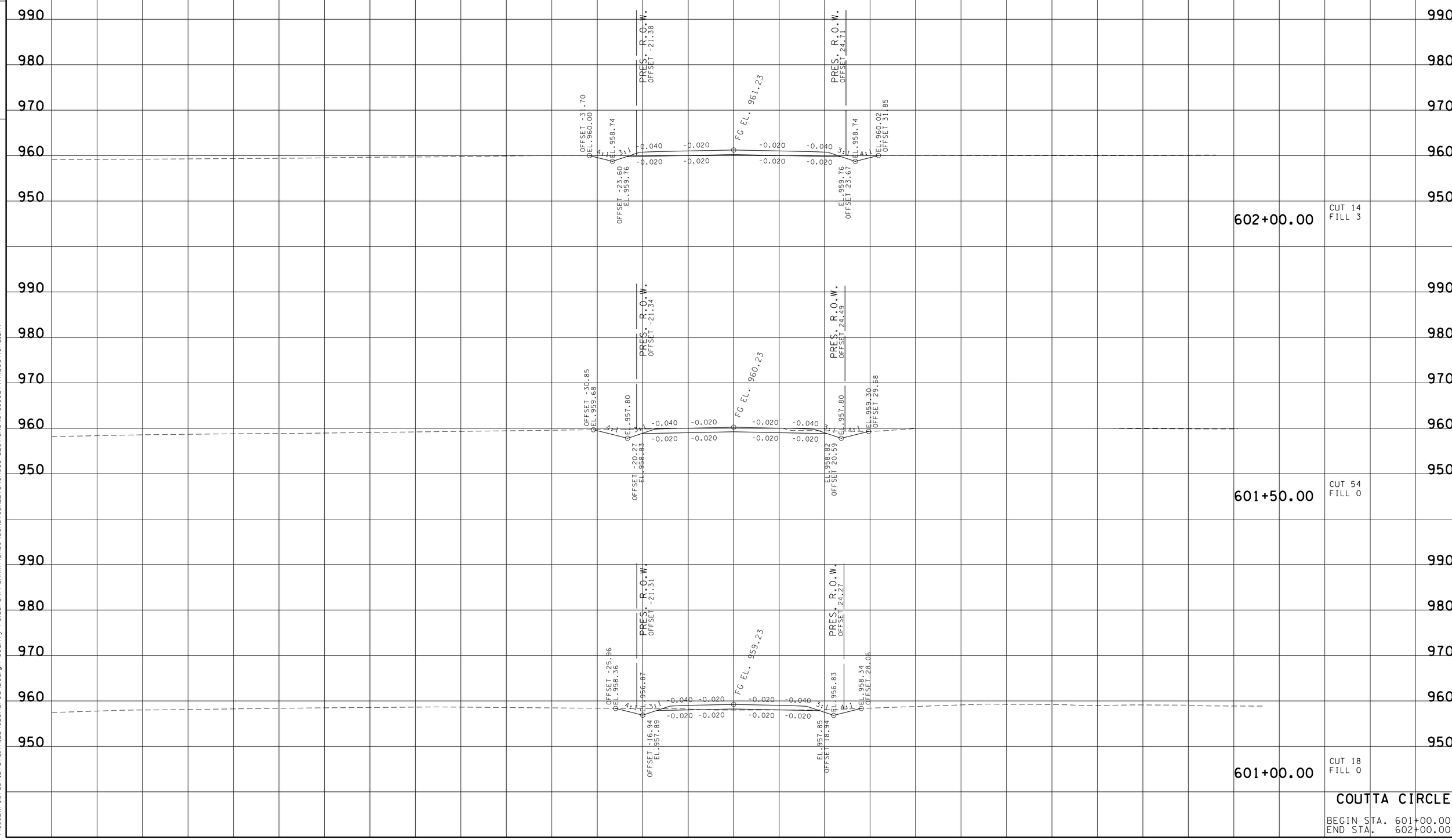
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	65
CONST.	2015	STP-50(31)	75

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



COUTTA CIRCLE

BEGIN STA. 601+00.00
END STA. 602+00.00

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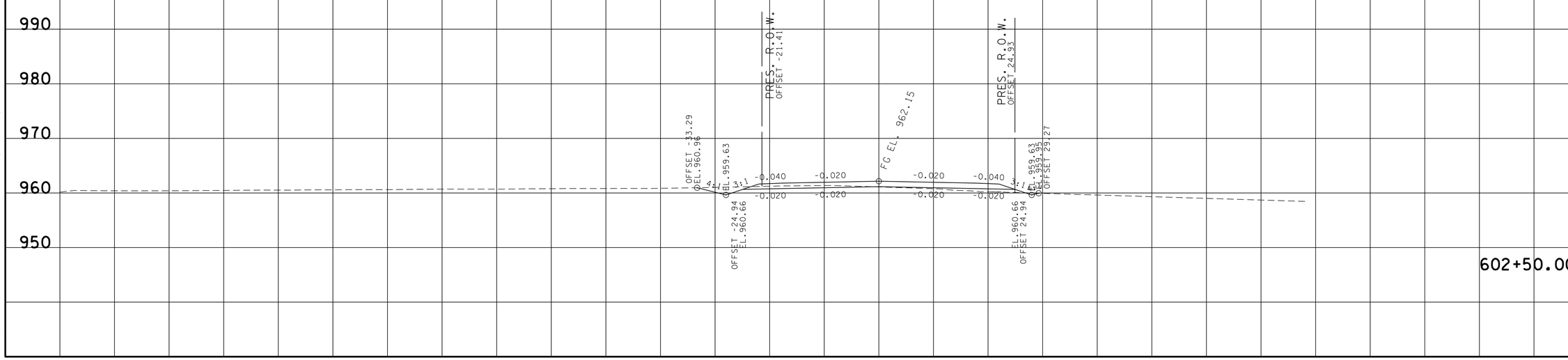
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	66
CONST.	2015	STP-50(31)	76

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



602+50.00

CUT 16
FILL 8

COUTTA CIRCLE

BEGIN STA. 602+50.00
END STA. 602+50.00

23-OCT-2014 13:40
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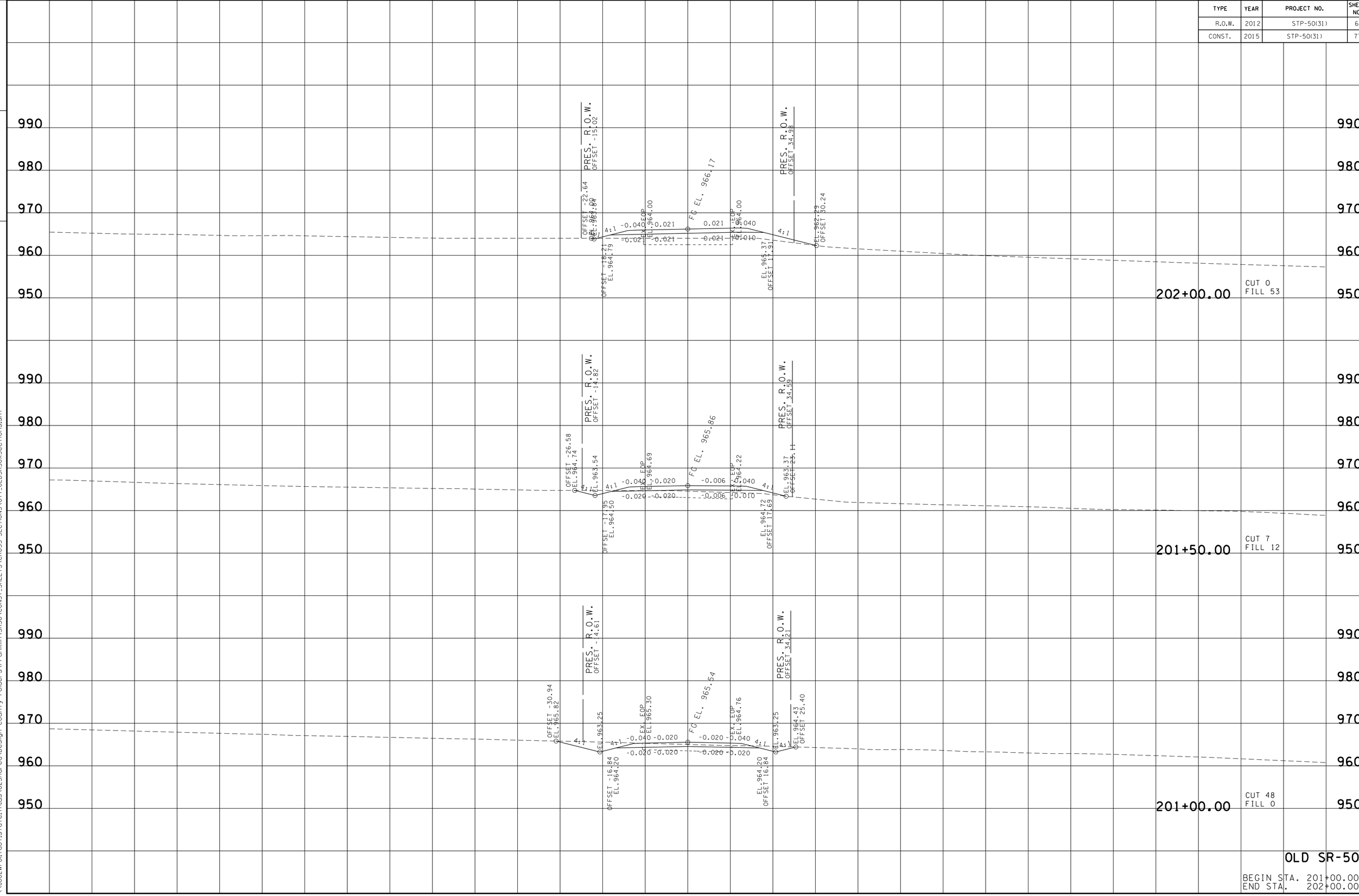
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	67
CONST.	2015	STP-50(31)	77

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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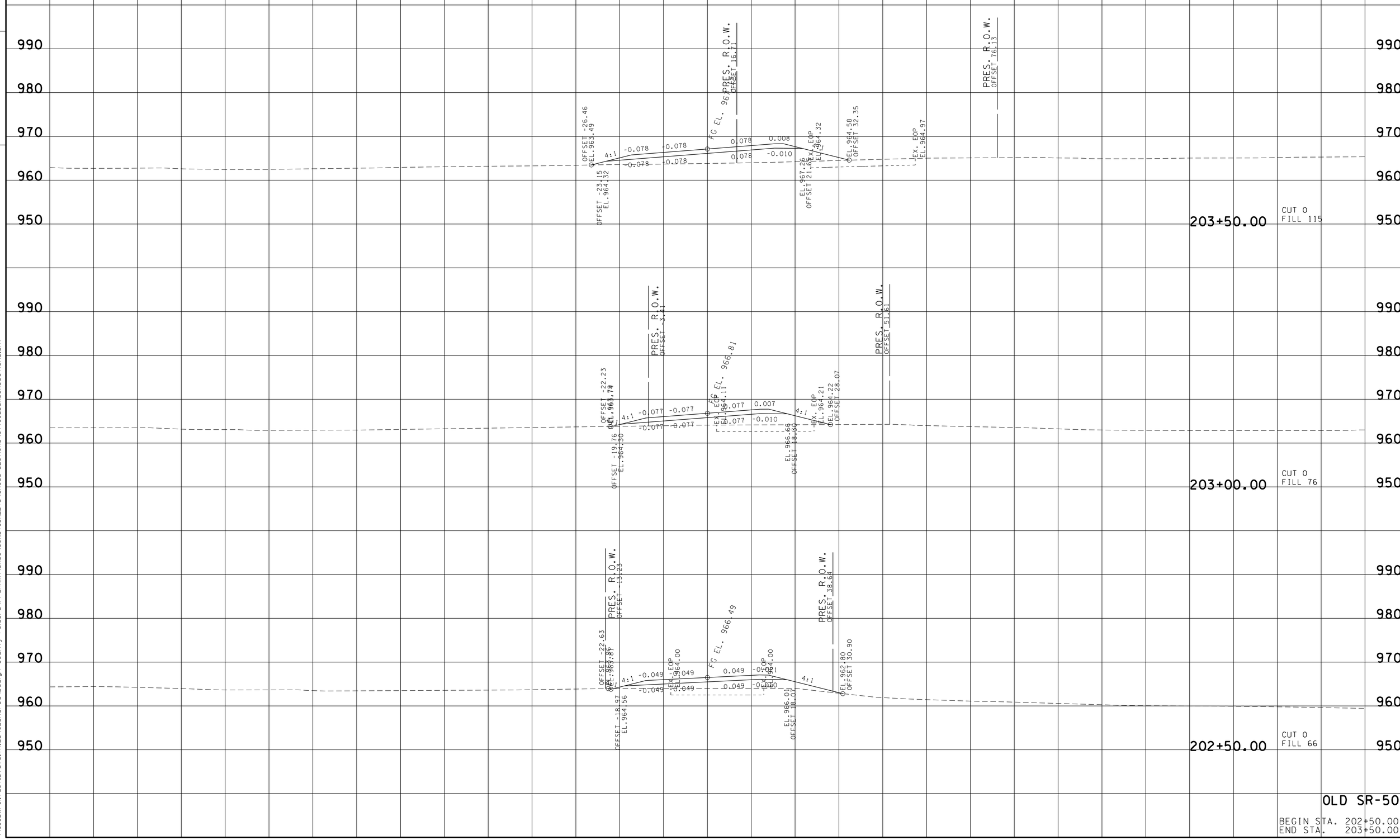
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	68
CONST.	2015	STP-50(31)	78

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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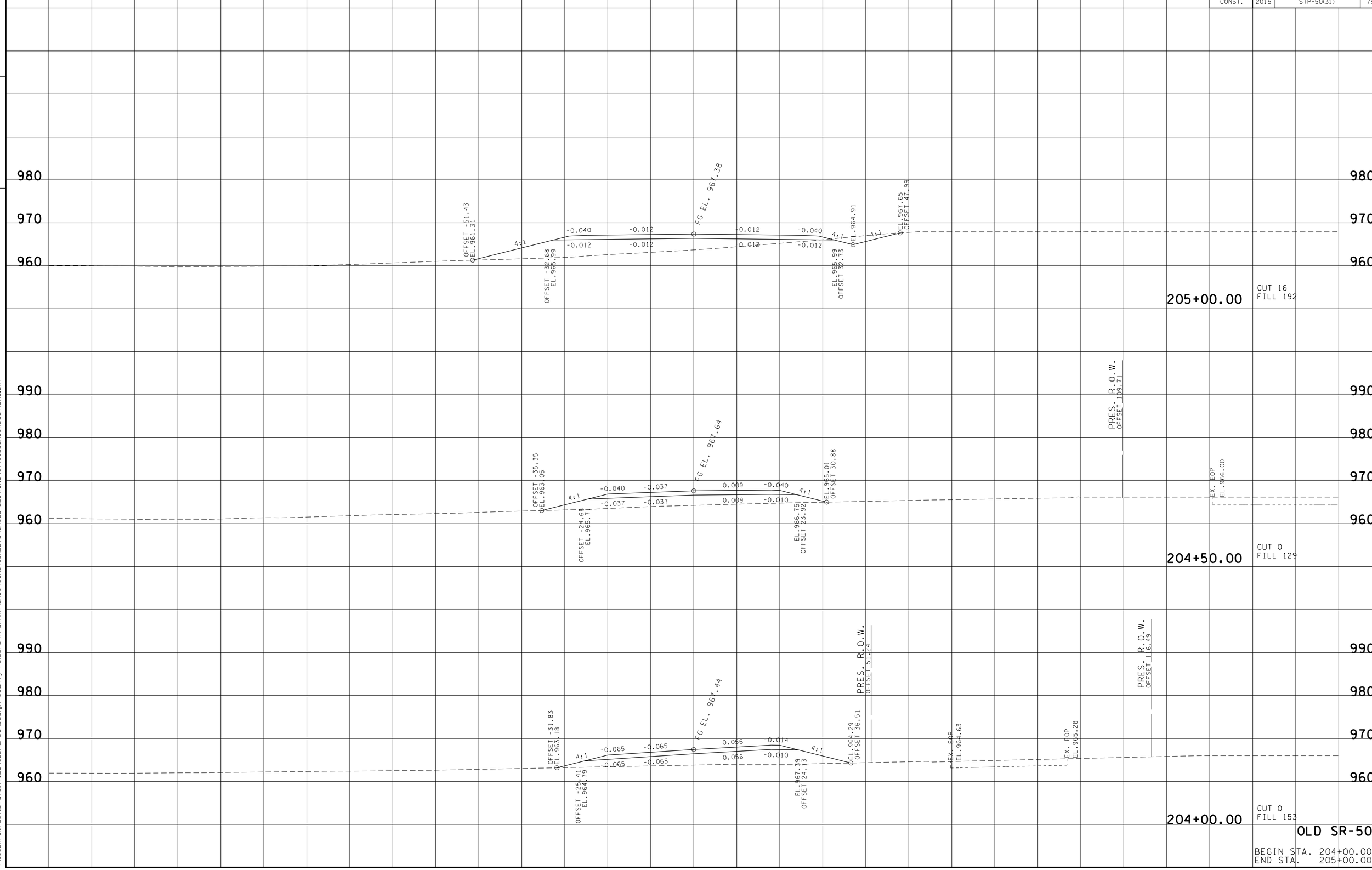
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	69
CONST.	2015	STP-50(31)	79

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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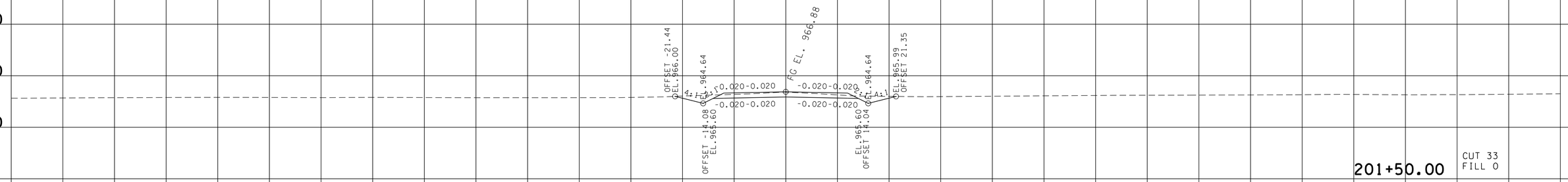
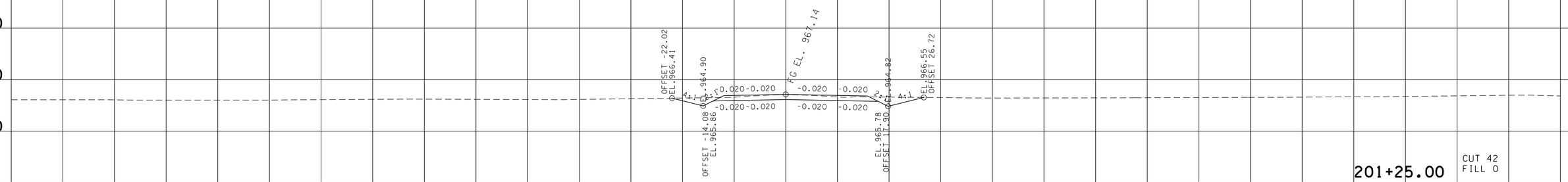
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	70
CONST.	2015	STP-50(31)	80

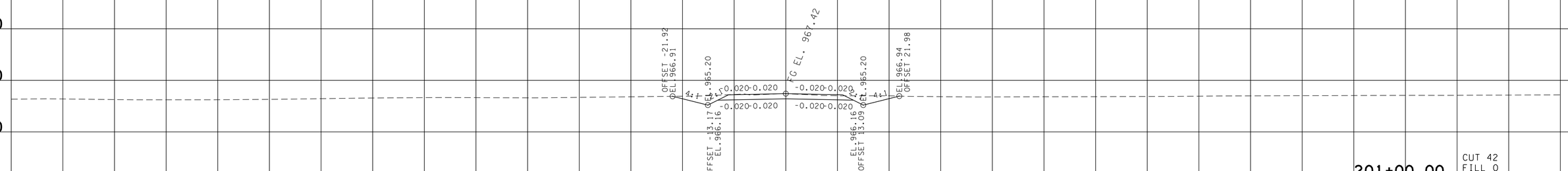
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



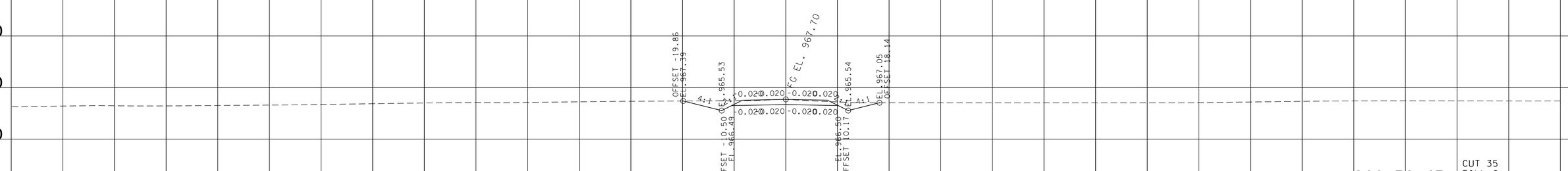
201+50.00 CUT 33 FILL 0



201+25.00 CUT 42 FILL 0



201+00.00 CUT 42 FILL 0



200+76.47 CUT 35 FILL 0

DRY CK RD 1

BEGIN STA. 200+76.47
END STA. 201+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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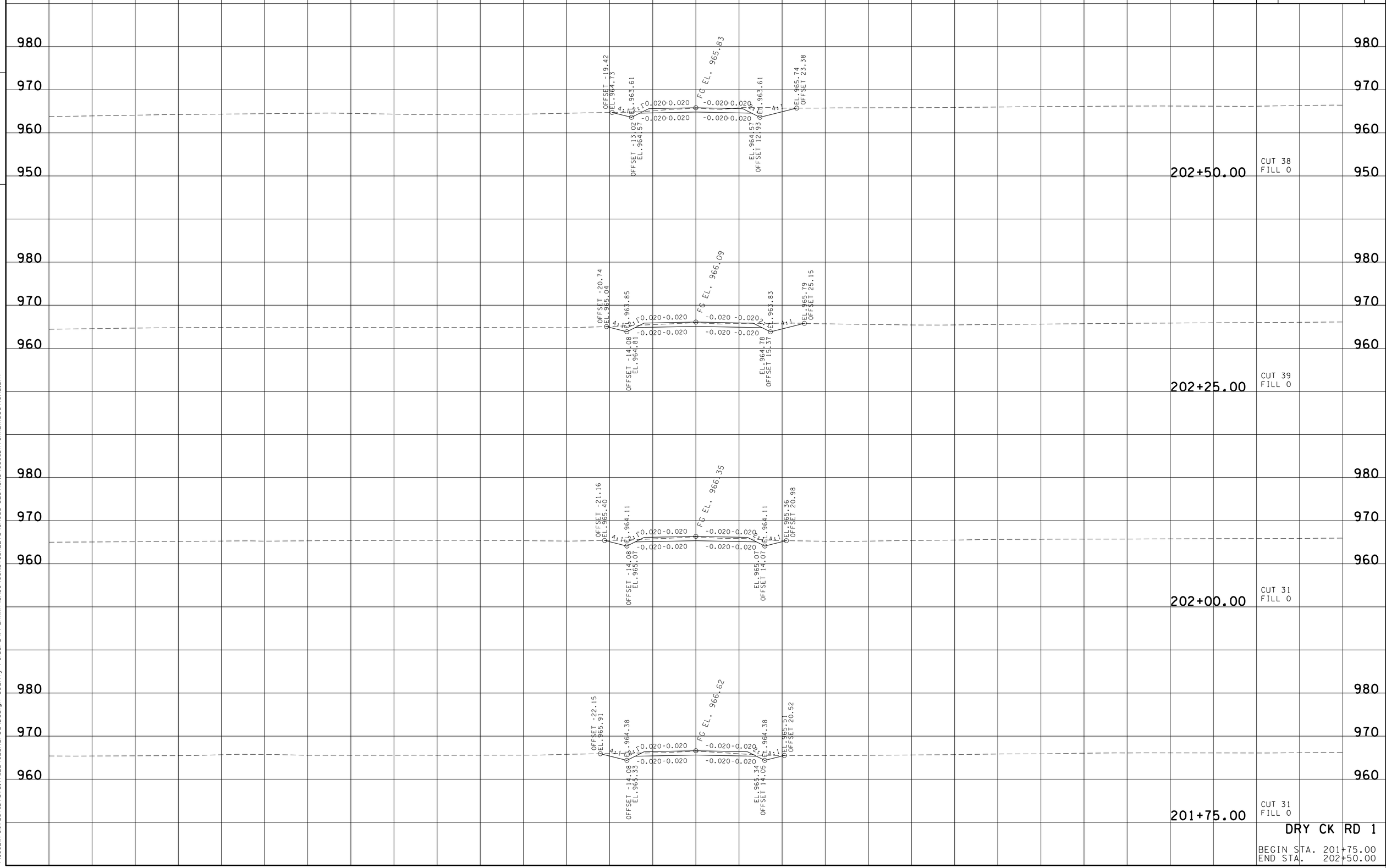
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	71
CONST.	2015	STP-50(31)	81



DRY CK RD 1

BEGIN STA. 201+75.00
END STA. 202+50.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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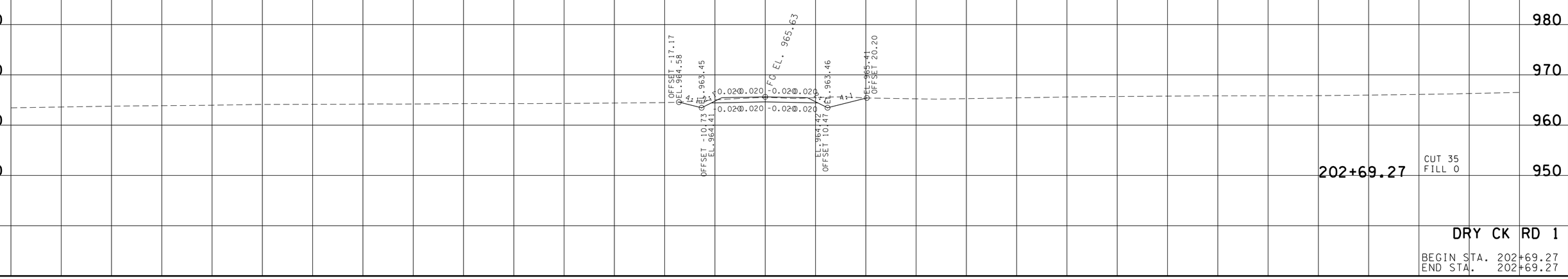
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	72
CONST.	2015	STP-50(31)	82

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



DRY CK RD 1

BEGIN STA. 202+69.27
END STA. 202+69.27

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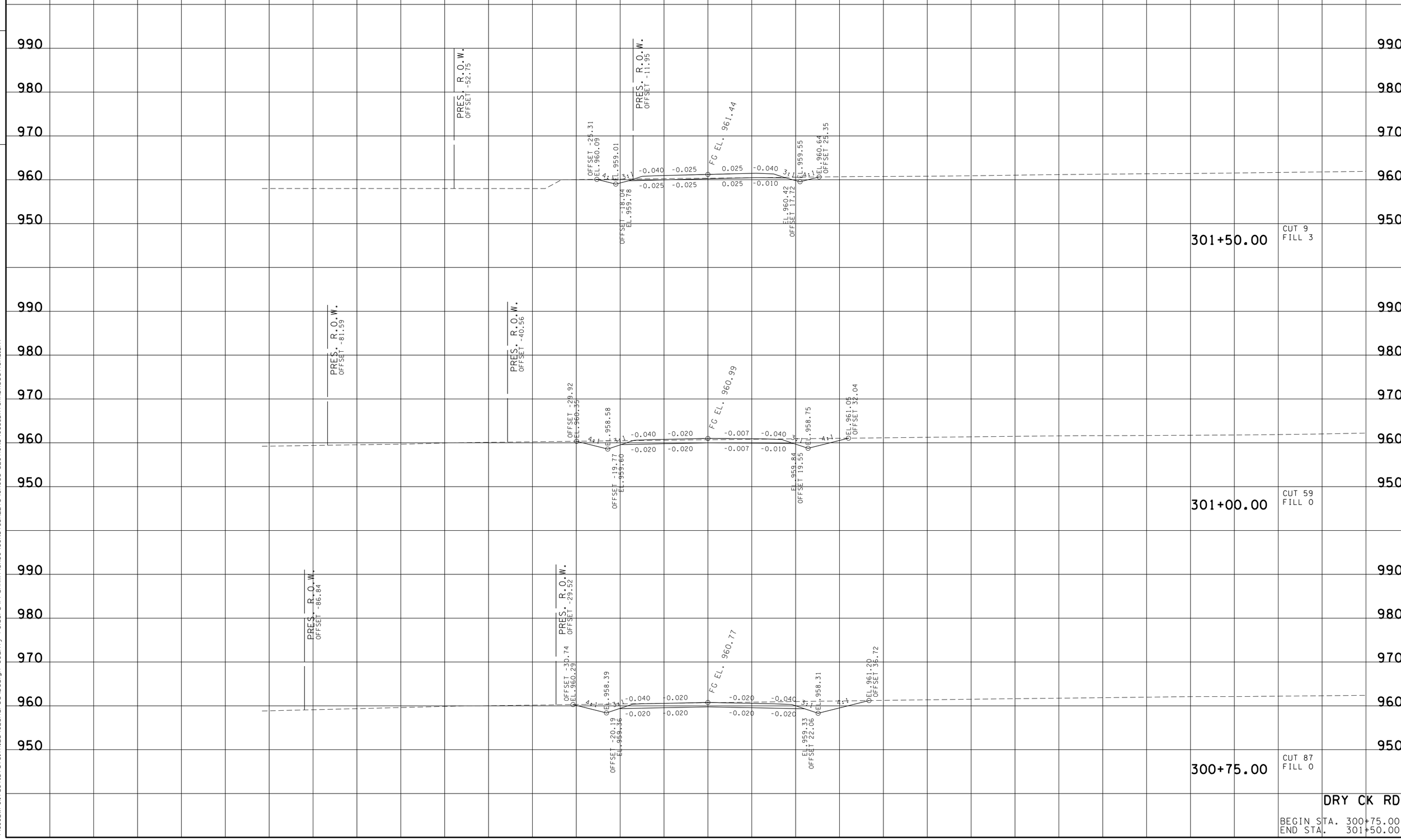
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	73
CONST.	2015	STP-50(31)	83

REV. 08-28-12- REVISED DRY CK RD CROSS SECTIONS

REV. XX-XX-14- REVISED DRY CK RD CROSS SECTIONS

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



DRY CK RD

BEGIN STA. 300+75.00
END STA. 301+50.00

23-OCT-2014 13:41
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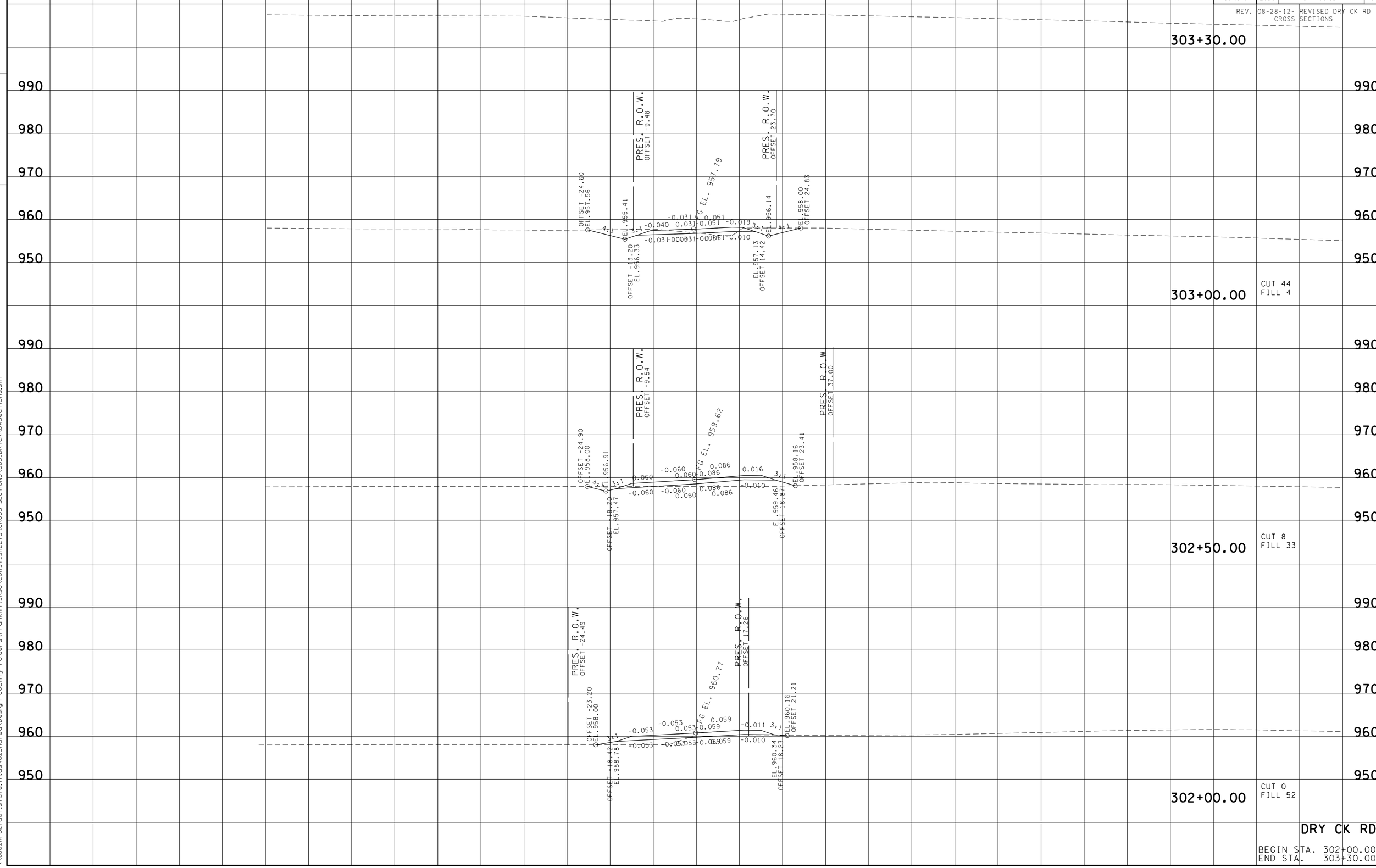
REV. XX-XX-14- REVISED DRY CK RD
CROSS SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	74
CONST.	2015	STP-50(31)	84

REV. 08-28-12- REVISED DRY CK RD
CROSS SECTIONS



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

23-OCT-2014 13:41
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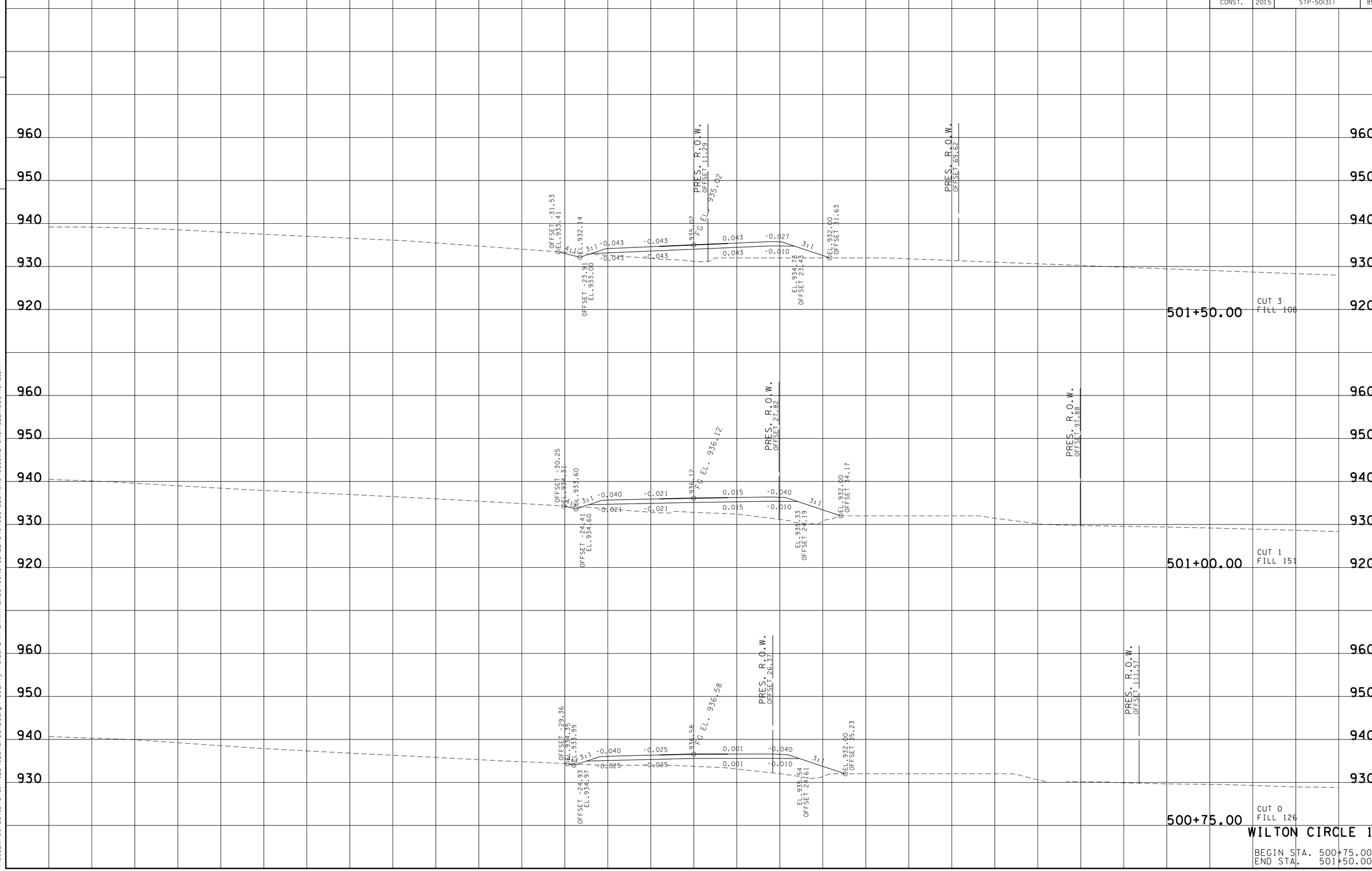
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	75
CONST.	2015	STP-50(31)	85

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



WILTON CIRCLE 1

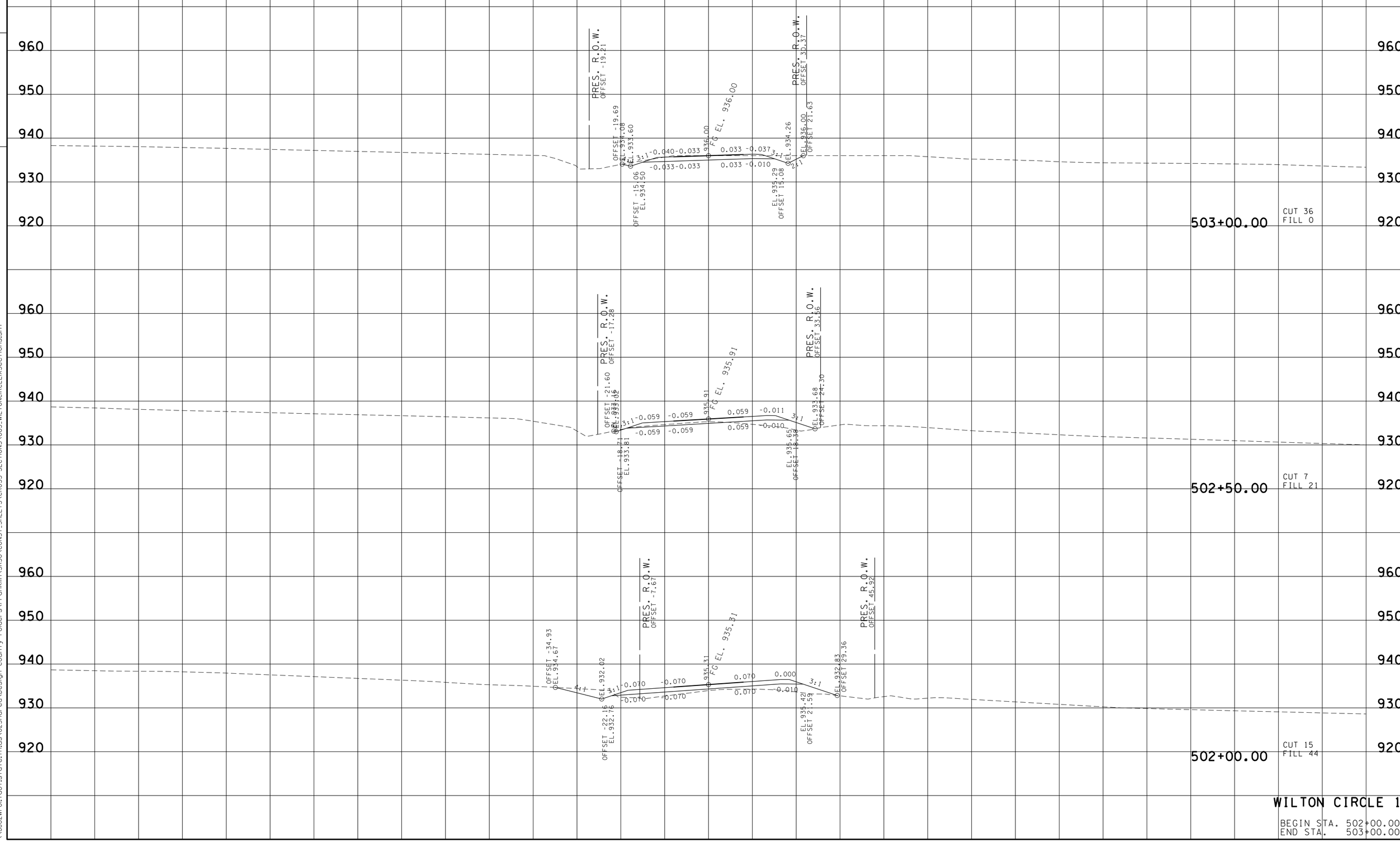
BEGIN STA. 500+75.00
END STA. 501+50.00

23-OCT-2014 13:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Franklin\SR50\CONST_SHEETS\CROSS-SECTIONS\085_WILTONCIRCLEIXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	76
CONST.	2015	STP-50(31)	86

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



WILTON CIRCLE 1

BEGIN STA. 502+00.00
END STA. 503+00.00

23-OCT-2014 13:41
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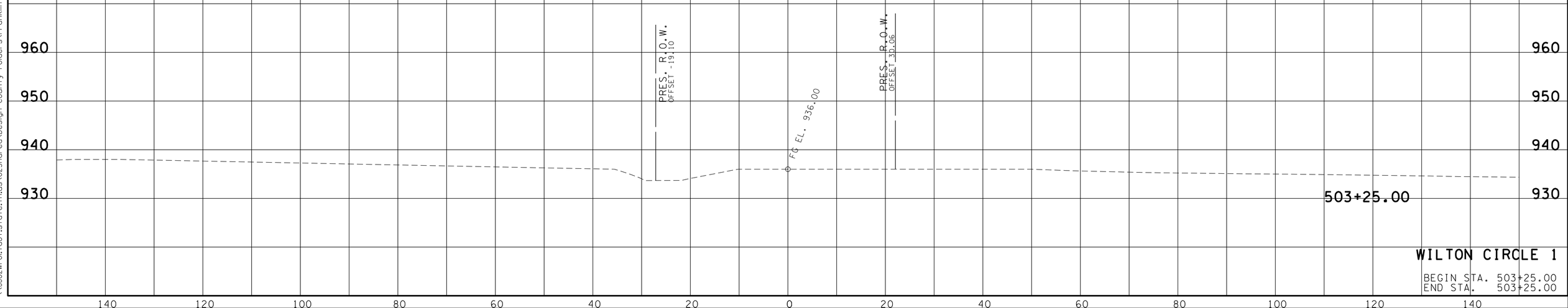
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	77
CONST.	2015	STP-50(31)	87

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



WILTON CIRCLE 1

BEGIN STA. 503+25.00
END STA. 503+25.00

23-OCT-2014 13:41
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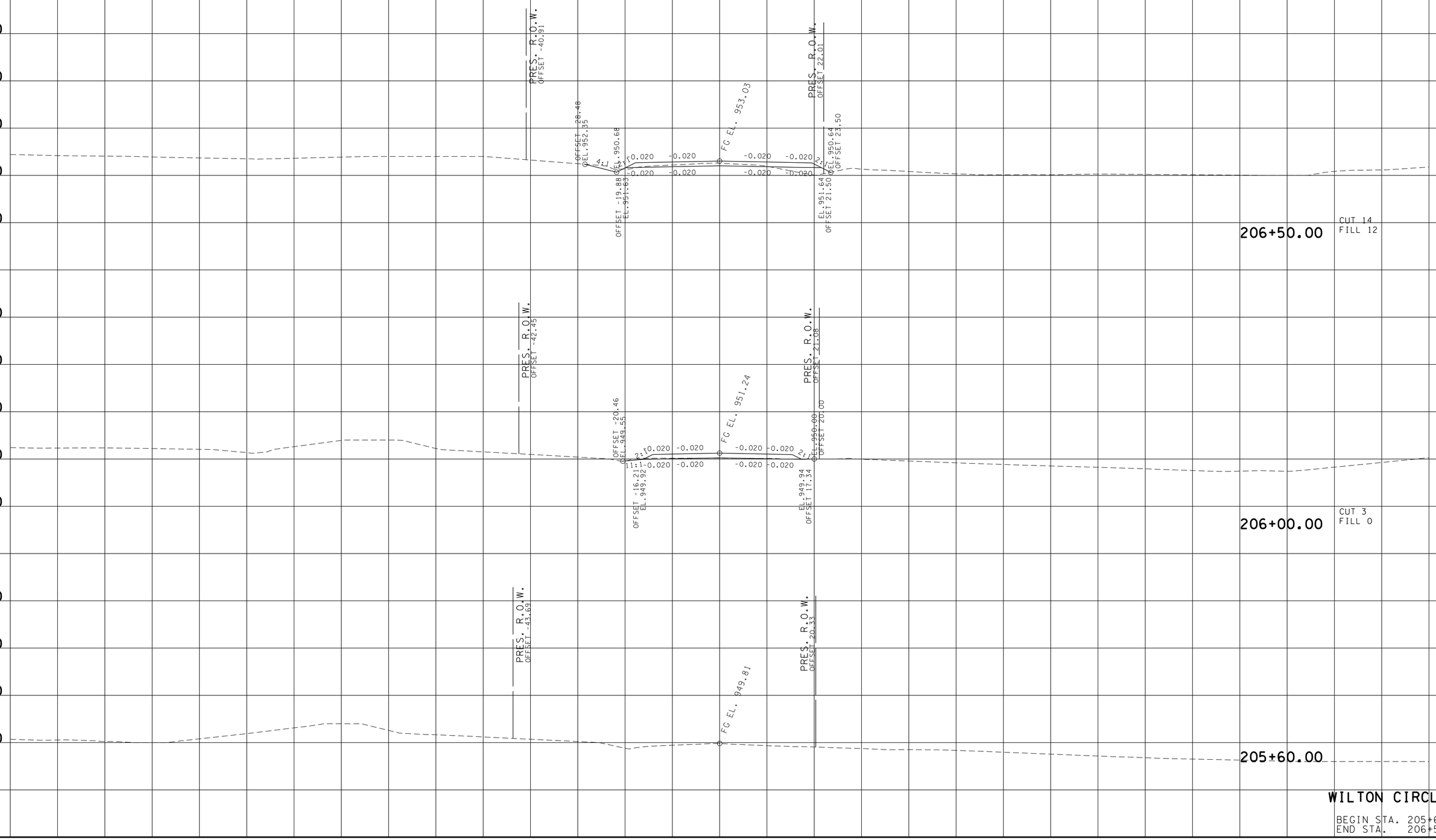
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	78
CONST.	2015	STP-50(31)	88

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



WILTON CIRCLE 2

BEGIN STA. 205+60.00
END STA. 206+50.00

23-OCT-2014 13:41
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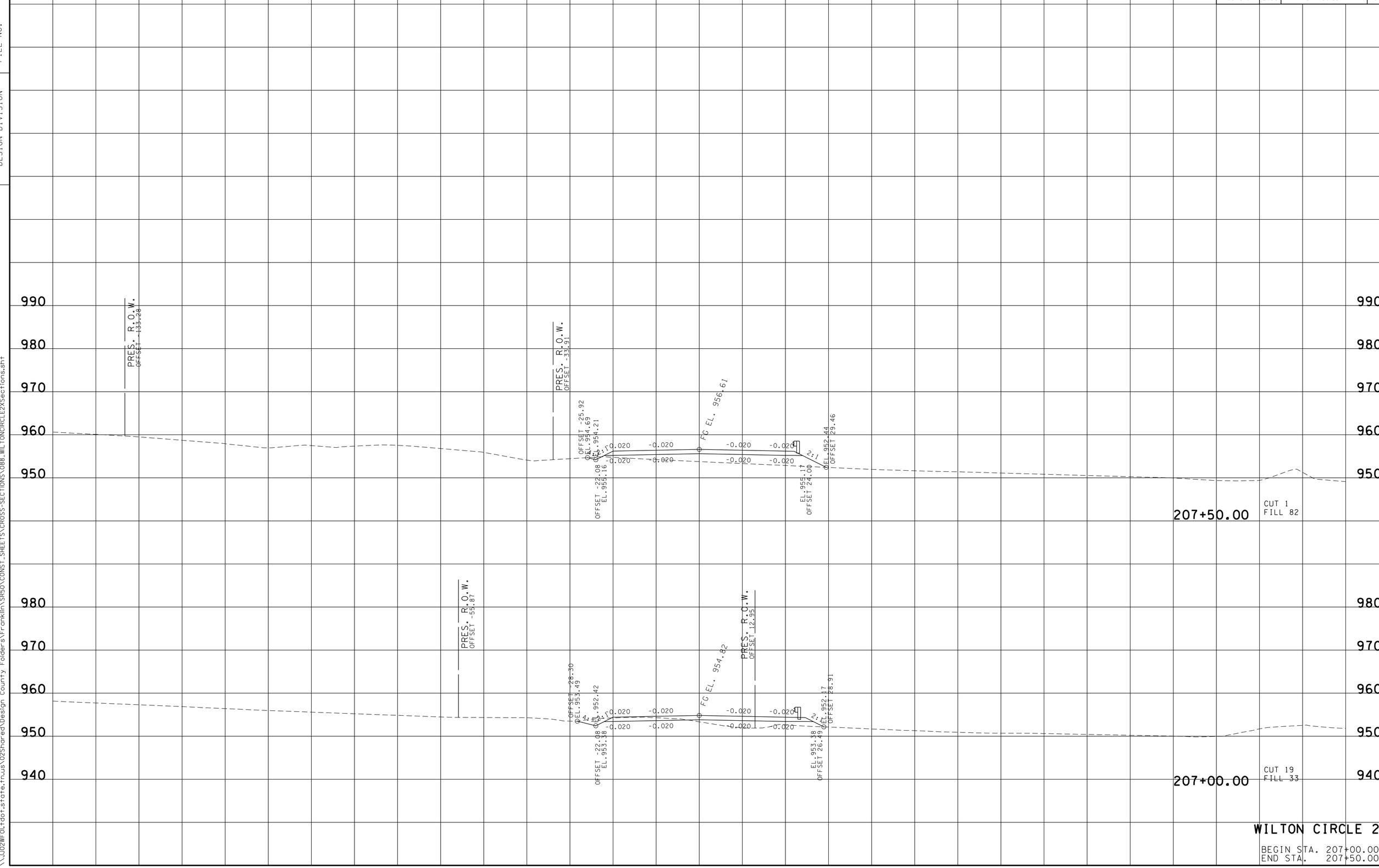
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	79
CONST.	2015	STP-50(31)	89



WILTON CIRCLE 2

BEGIN STA. 207+00.00
END STA. 207+50.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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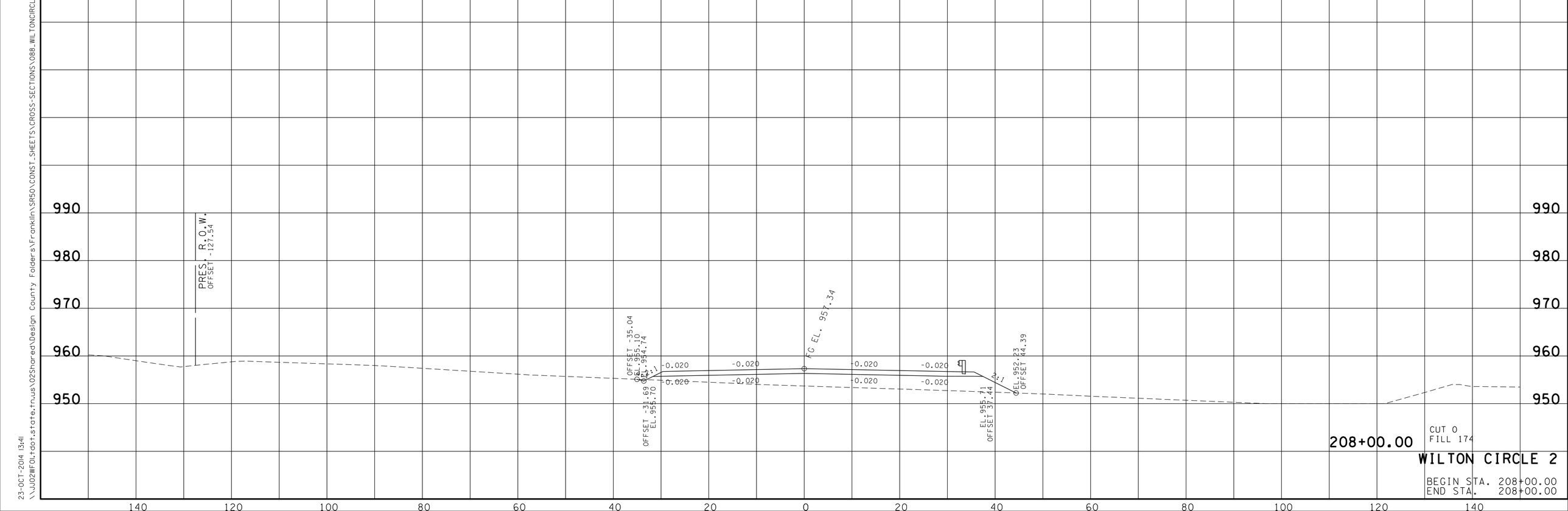
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	80
CONST.	2015	STP-50(31)	90



WILTON CIRCLE 2

BEGIN STA. 208+00.00
END STA. 208+00.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

23-OCT-2014 13:41
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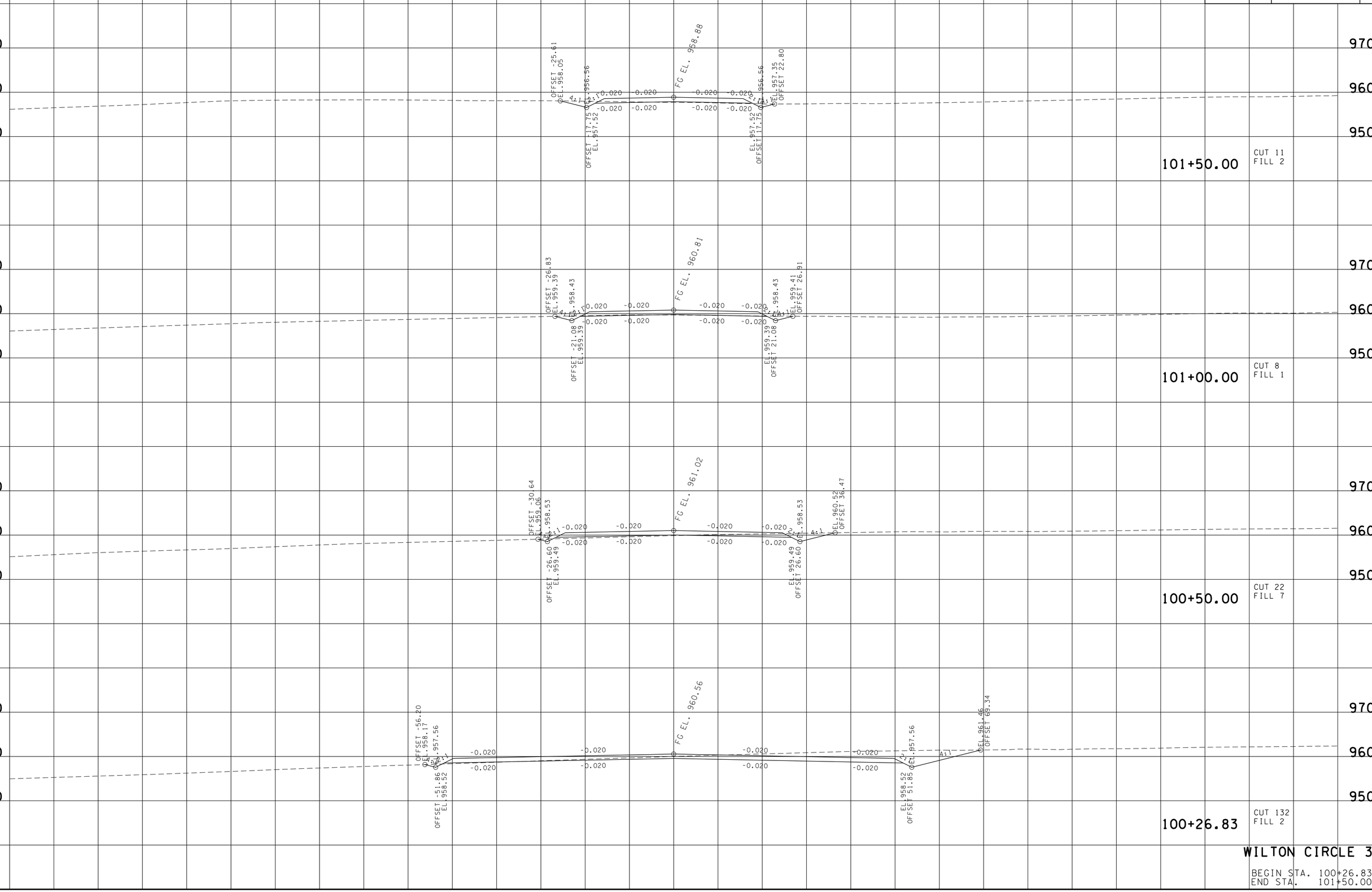
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	81
CONST.	2015	STP-50(31)	91



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

23-OCT-2014 13:41
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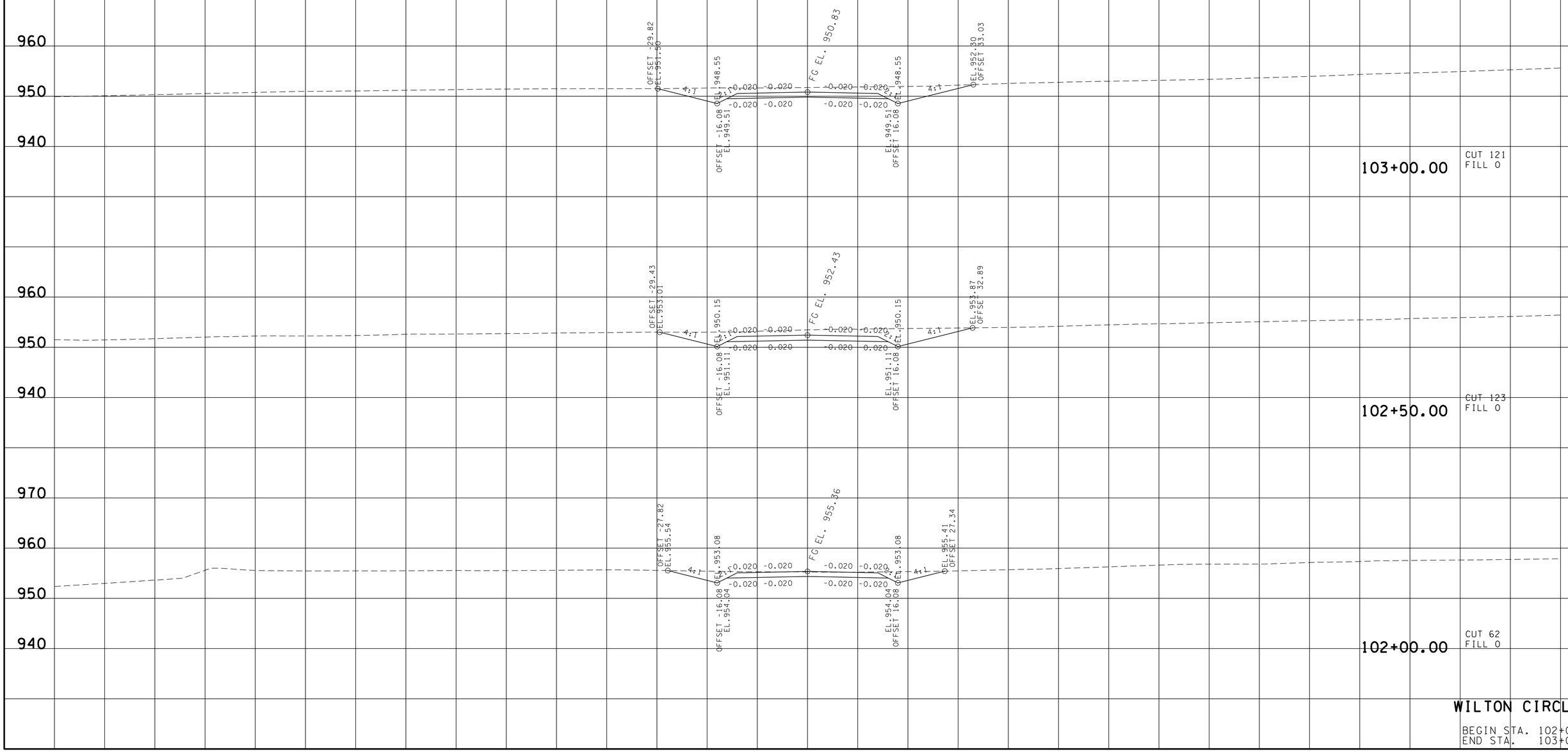
WILTON CIRCLE 3

BEGIN STA. 100+26.83
END STA. 101+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	82
CONST.	2015	STP-50(31)	92

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



WILTON CIRCLE 3

BEGIN STA. 102+00.00
END STA. 103+00.00

23-OCT-2014 13:41
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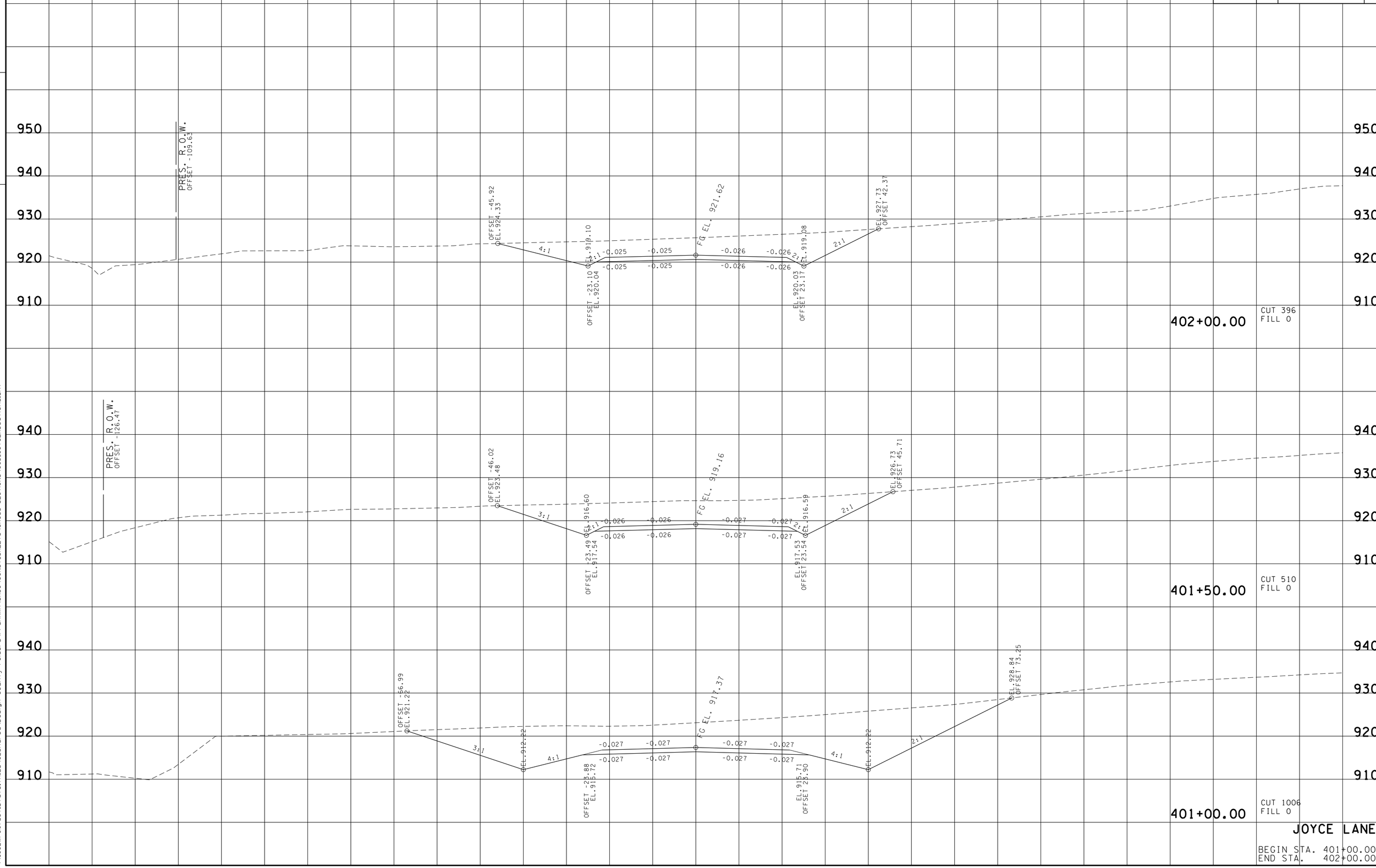
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	83
CONST.	2015	STP-50(31)	93



JOYCE LANE

BEGIN STA. 401+00.00
END STA. 402+00.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

23-OCT-2014 13:41
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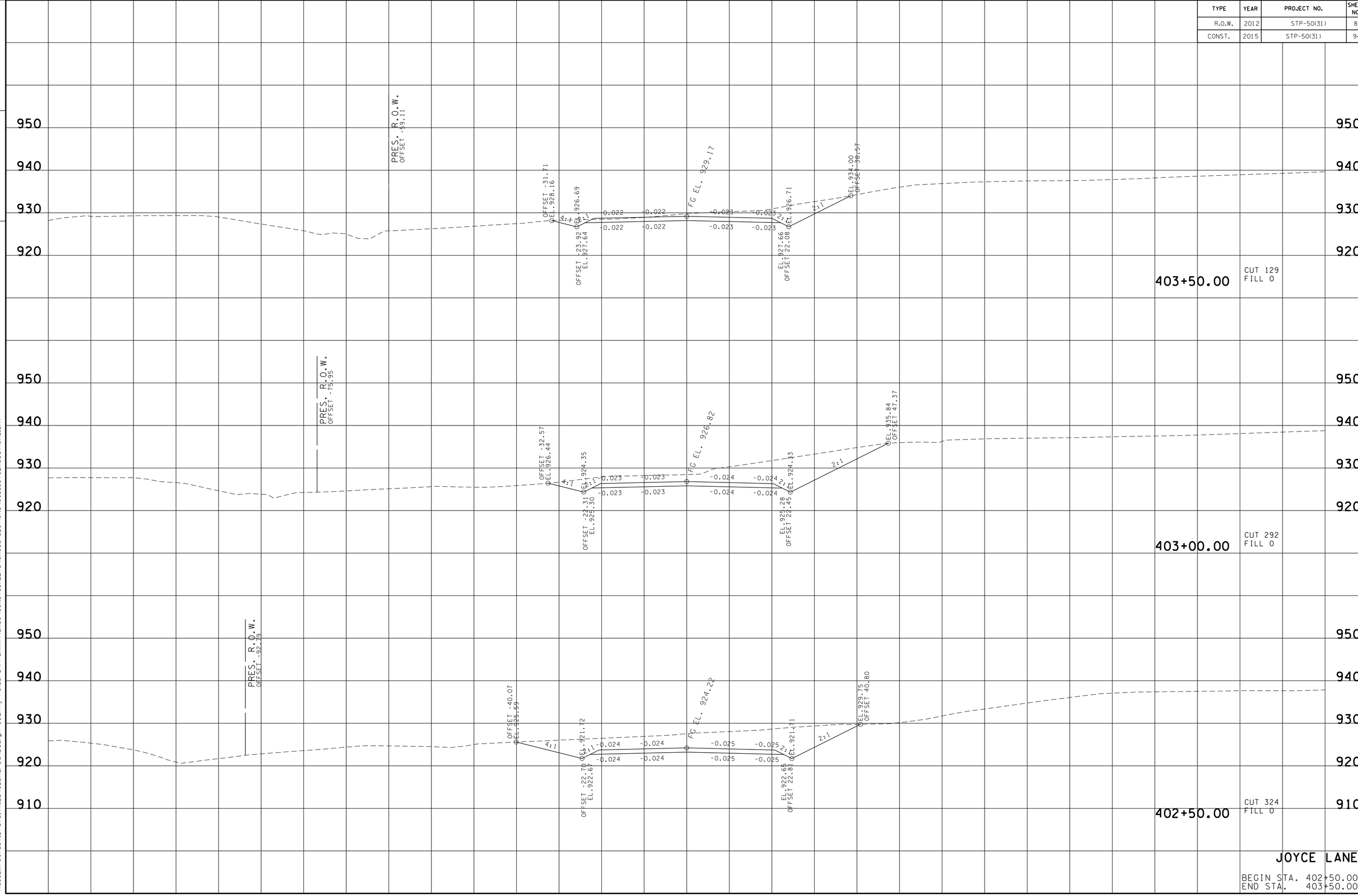
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	84
CONST.	2015	STP-50(31)	94

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



JOYCE LANE

BEGIN STA. 402+50.00
END STA. 403+50.00

23-OCT-2014 13:41
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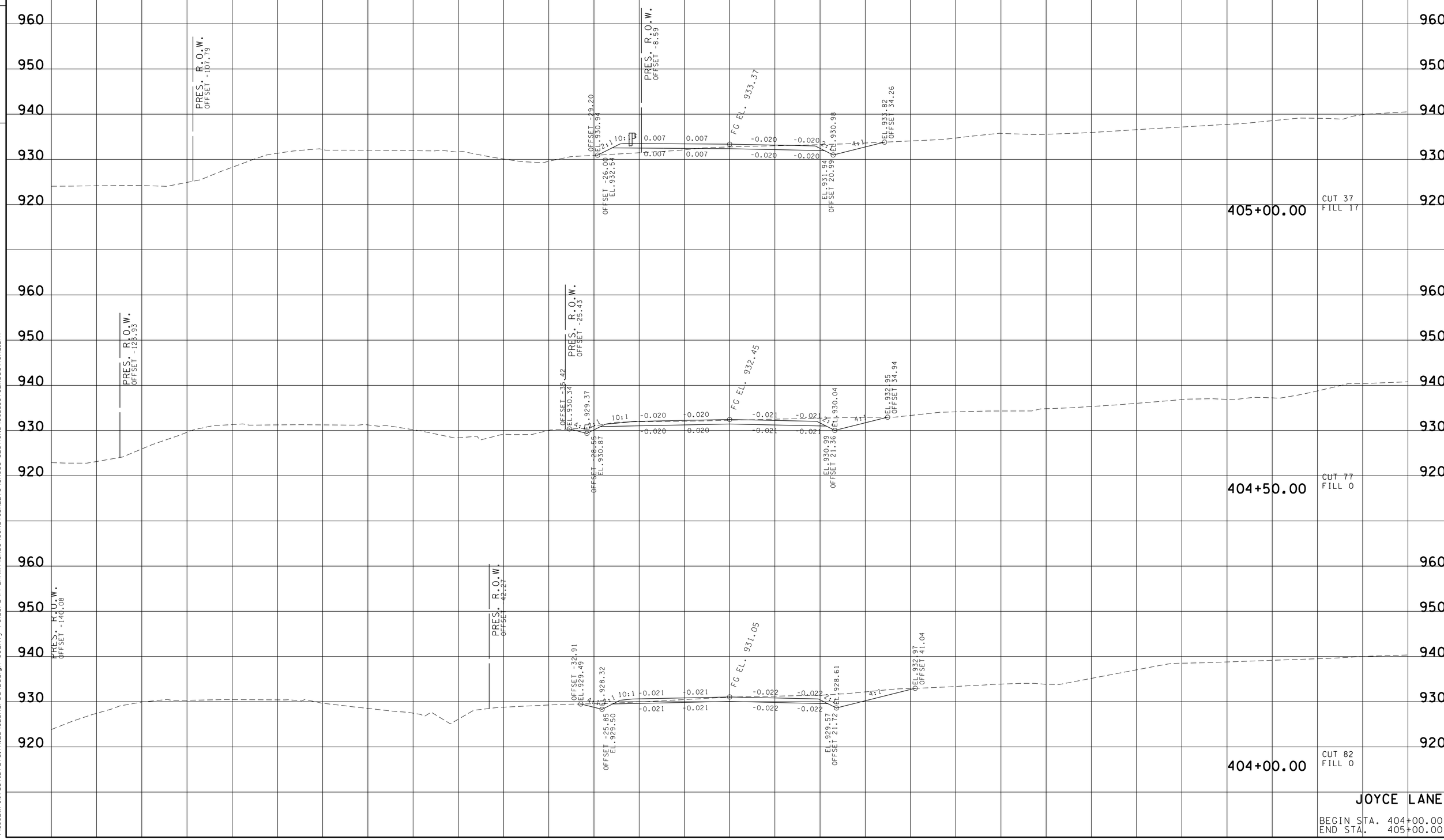
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	85
CONST.	2015	STP-50(31)	95

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



JOYCE LANE

BEGIN STA. 404+00.00
END STA. 405+00.00

23-OCT-2014 13:41
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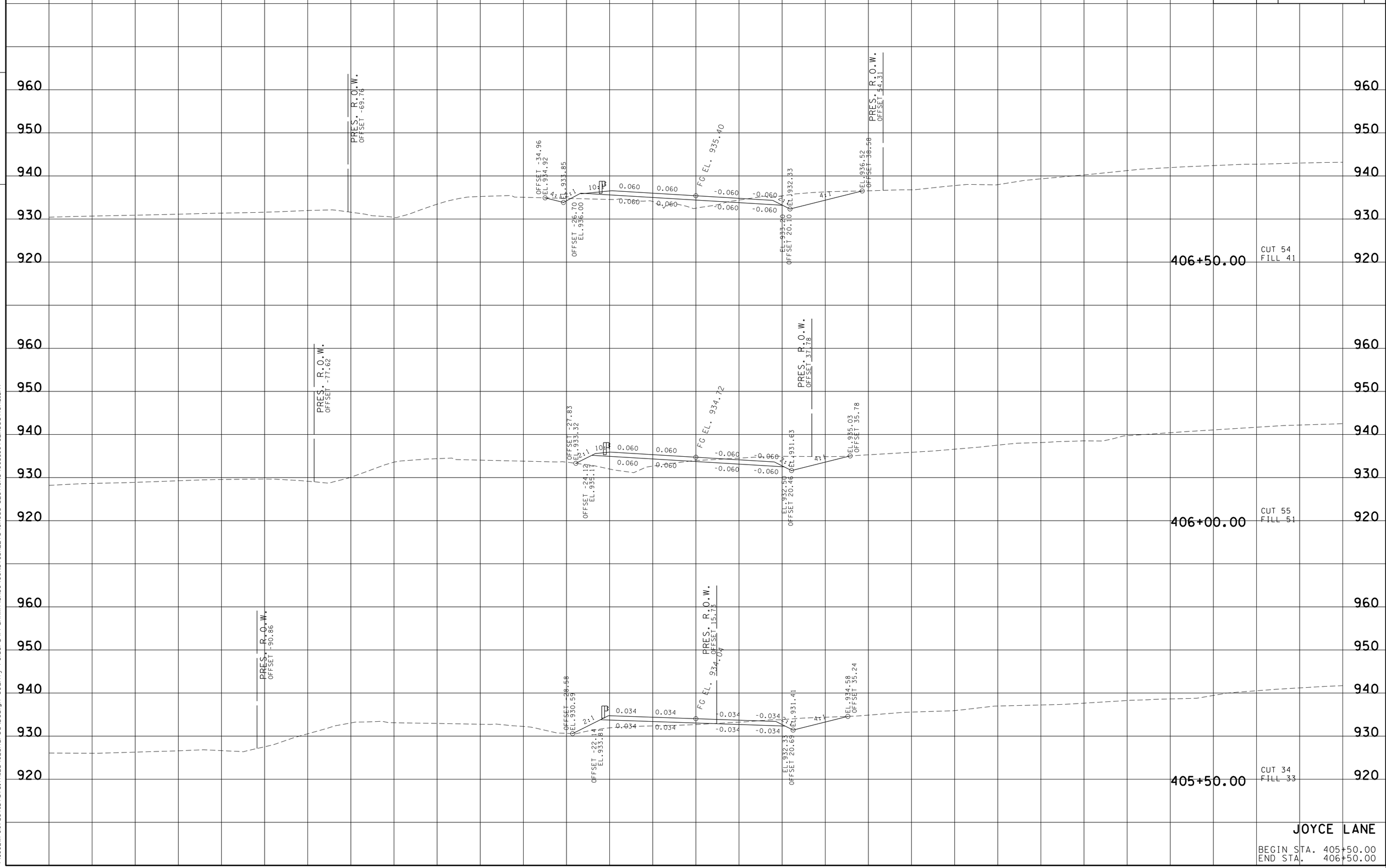
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	86
CONST.	2015	STP-50(31)	96

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



JOYCE LANE

BEGIN STA. 405+50.00
END STA. 406+50.00

23-OCT-2014 13:41
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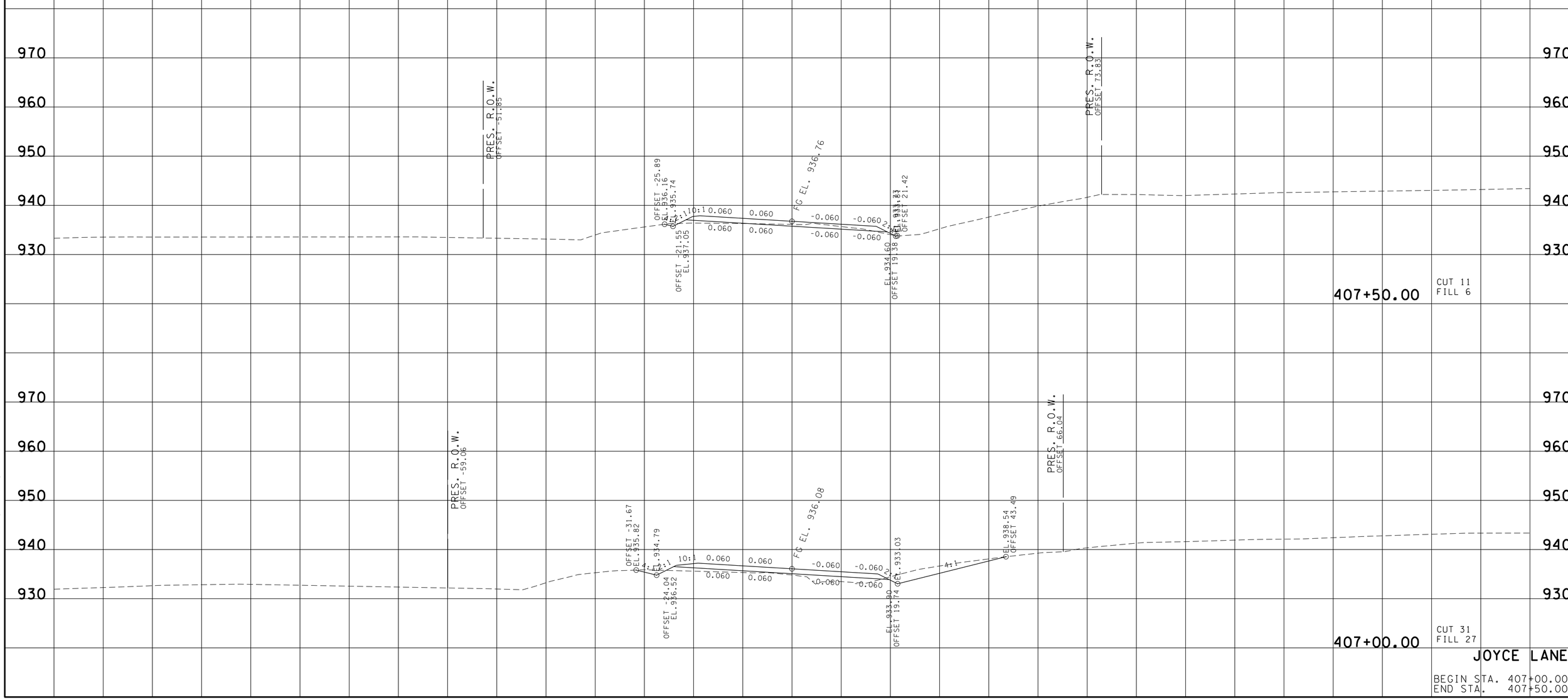
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	87
CONST.	2015	STP-50(31)	97



JOYCE LANE

BEGIN STA. 407+00.00
END STA. 407+50.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

23-OCT-2014 13:41
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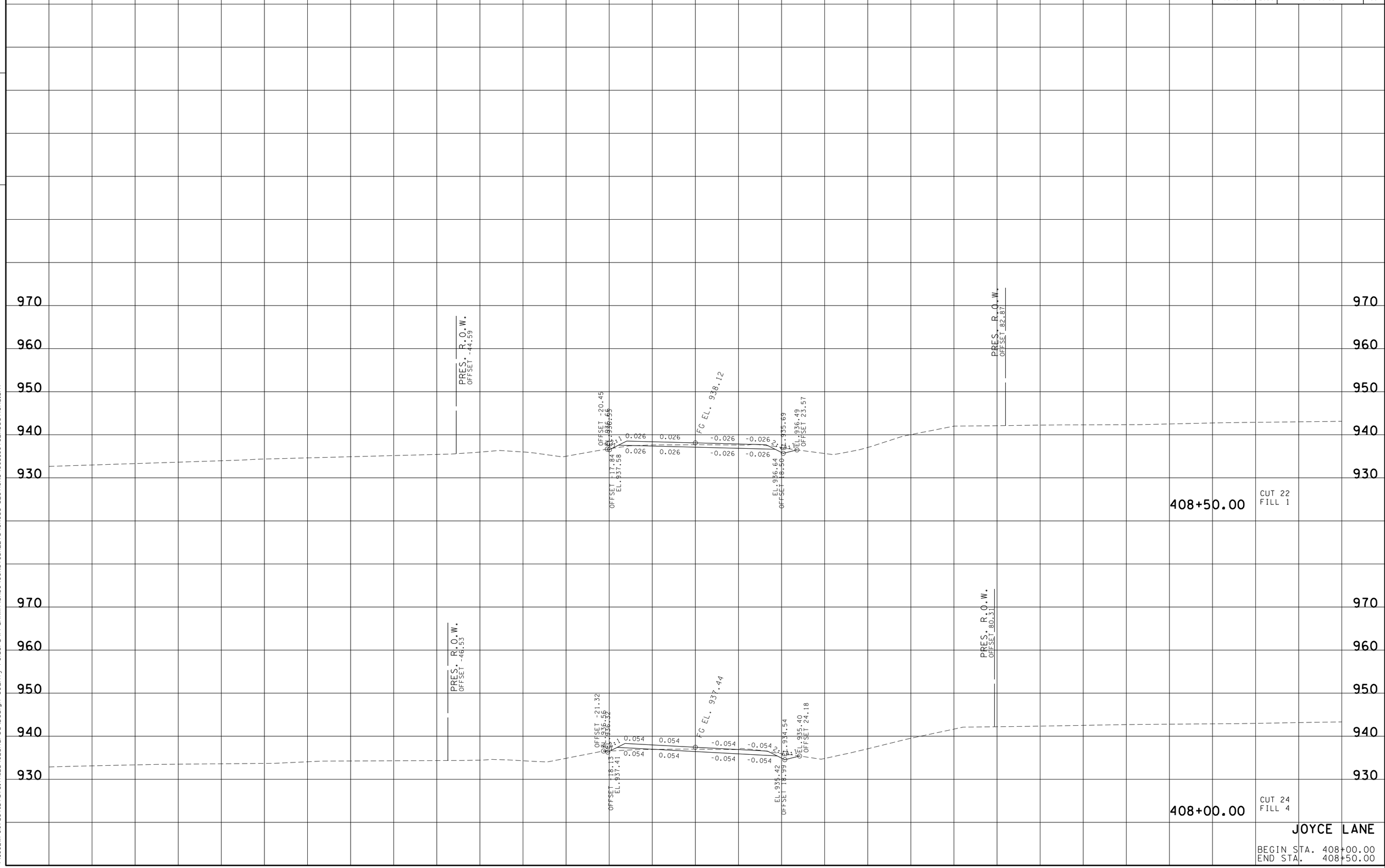
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	88
CONST.	2015	STP-50(31)	98

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



JOYCE LANE

BEGIN STA. 408+00.00
END STA. 408+50.00

23-OCT-2014 13:41
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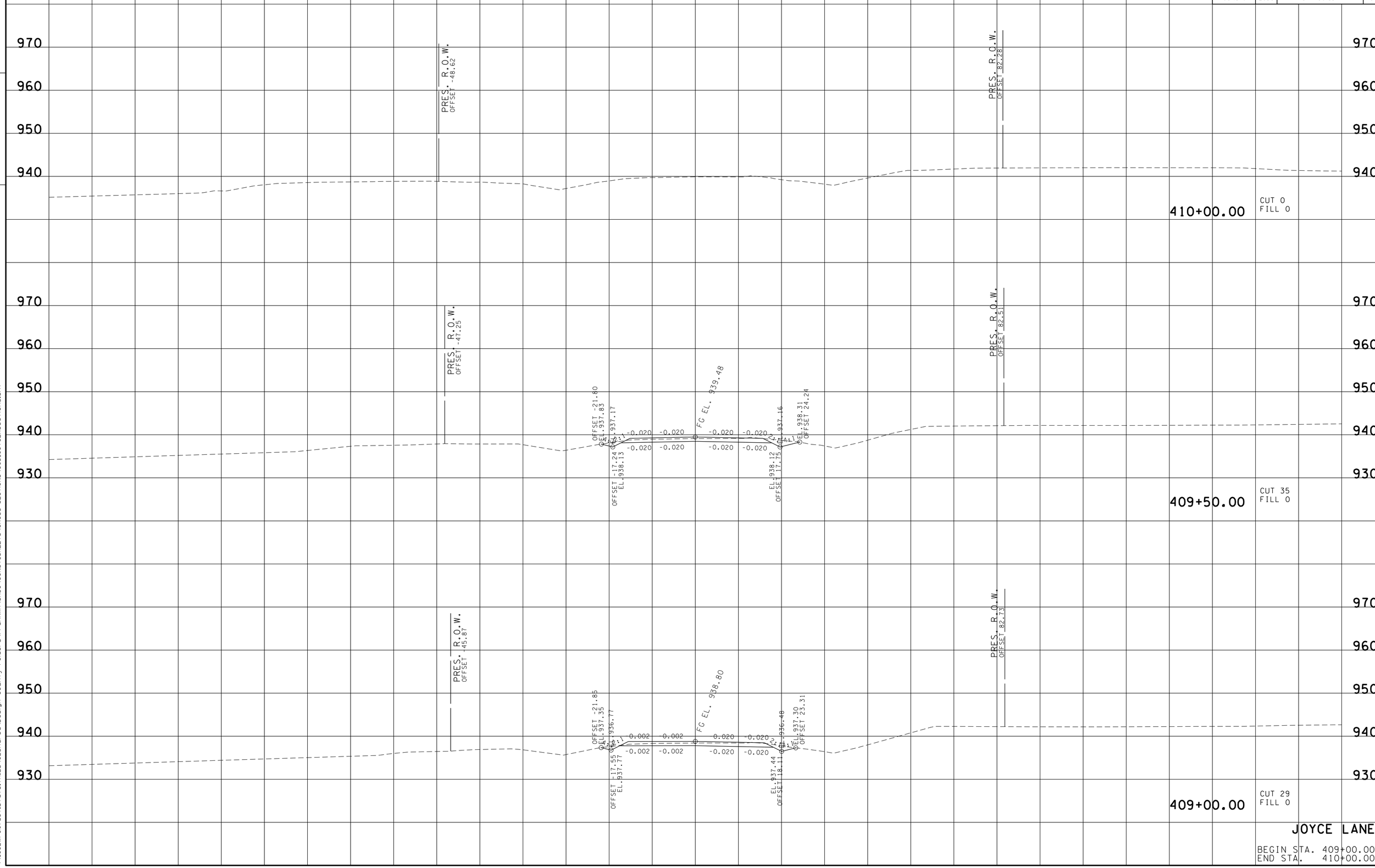
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	89
CONST.	2015	STP-50(31)	99

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



JOYCE LANE

BEGIN STA. 409+00.00
END STA. 410+00.00

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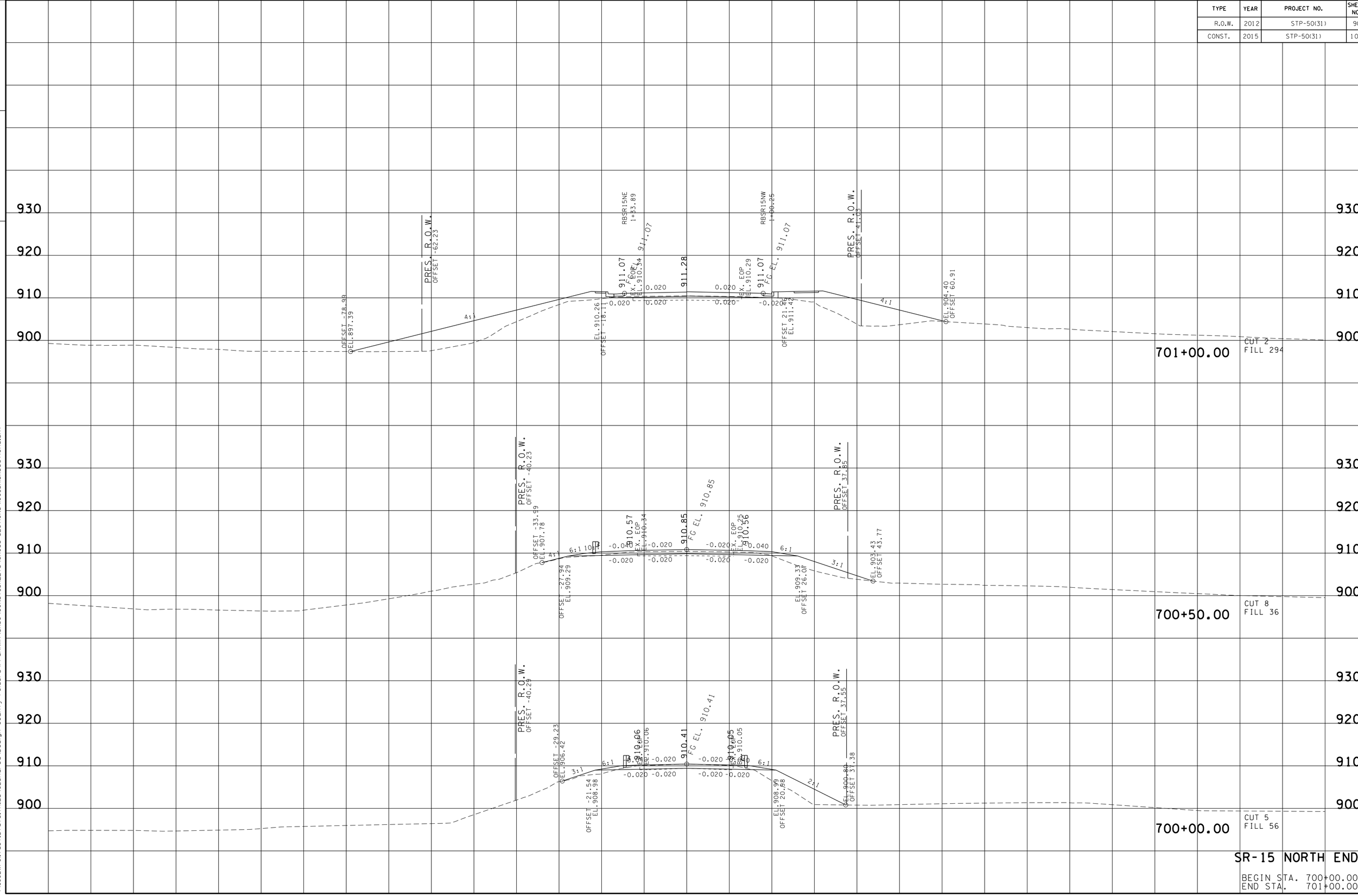
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	90
CONST.	2015	STP-50(31)	100

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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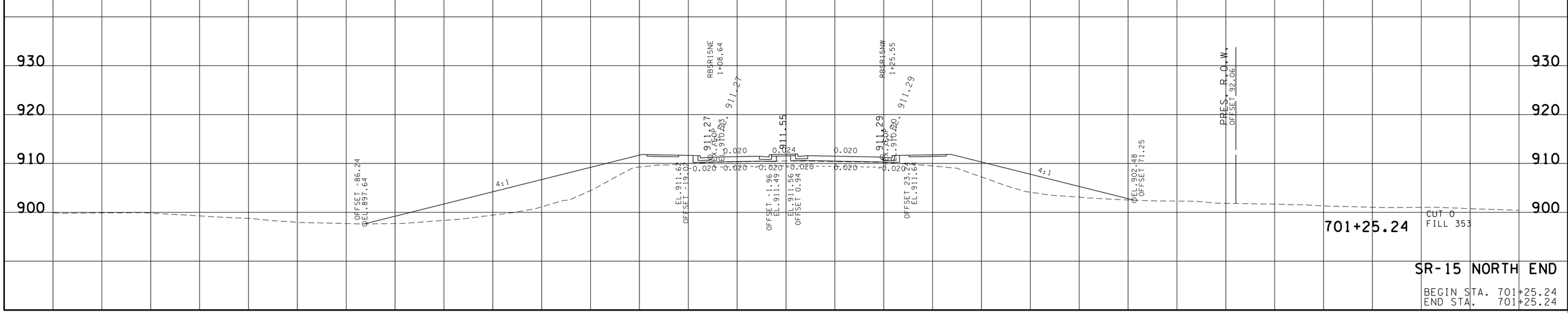
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	91
CONST.	2015	STP-50(31)	101

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-15 NORTH END

BEGIN STA. 701+25.24
END STA. 701+25.24

23-OCT-2014 13:41
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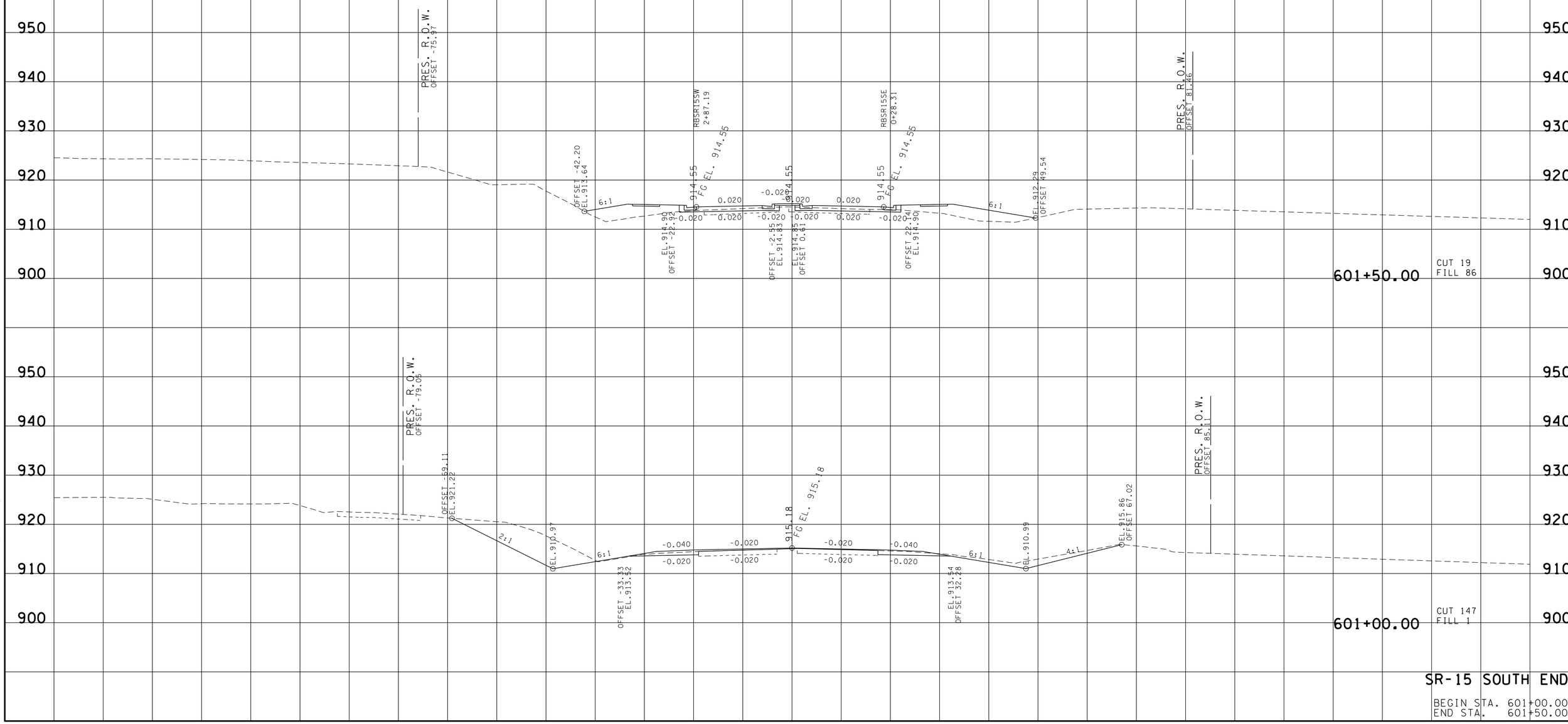
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	92
CONST.	2015	STP-50(31)	102

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-15 SOUTH END

BEGIN STA. 601+00.00
END STA. 601+50.00

23-OCT-2014 13:41
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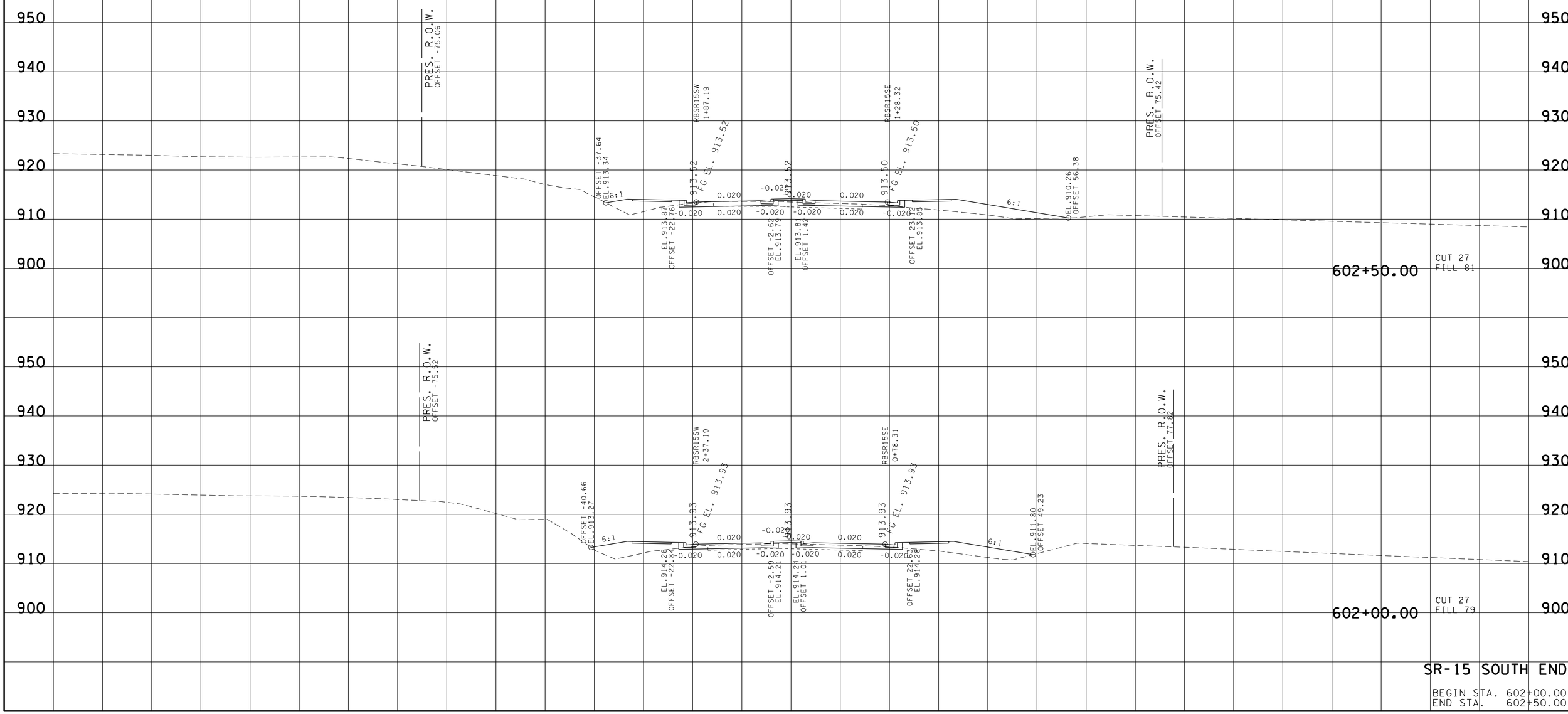
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	93
CONST.	2015	STP-50(31)	103

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-15 SOUTH END

BEGIN STA. 602+00.00
END STA. 602+50.00

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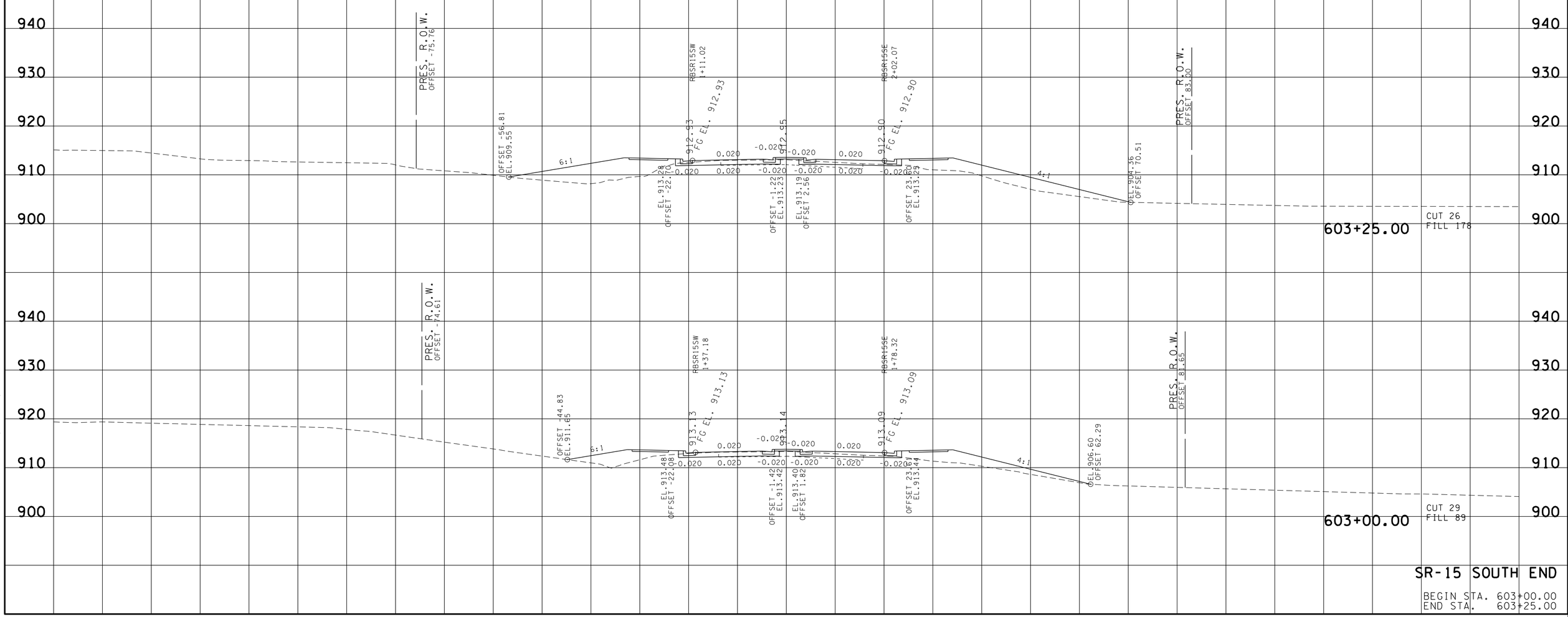
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	94
CONST.	2015	STP-50(31)	104

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-15 SOUTH END

BEGIN STA. 603+00.00
END STA. 603+25.00

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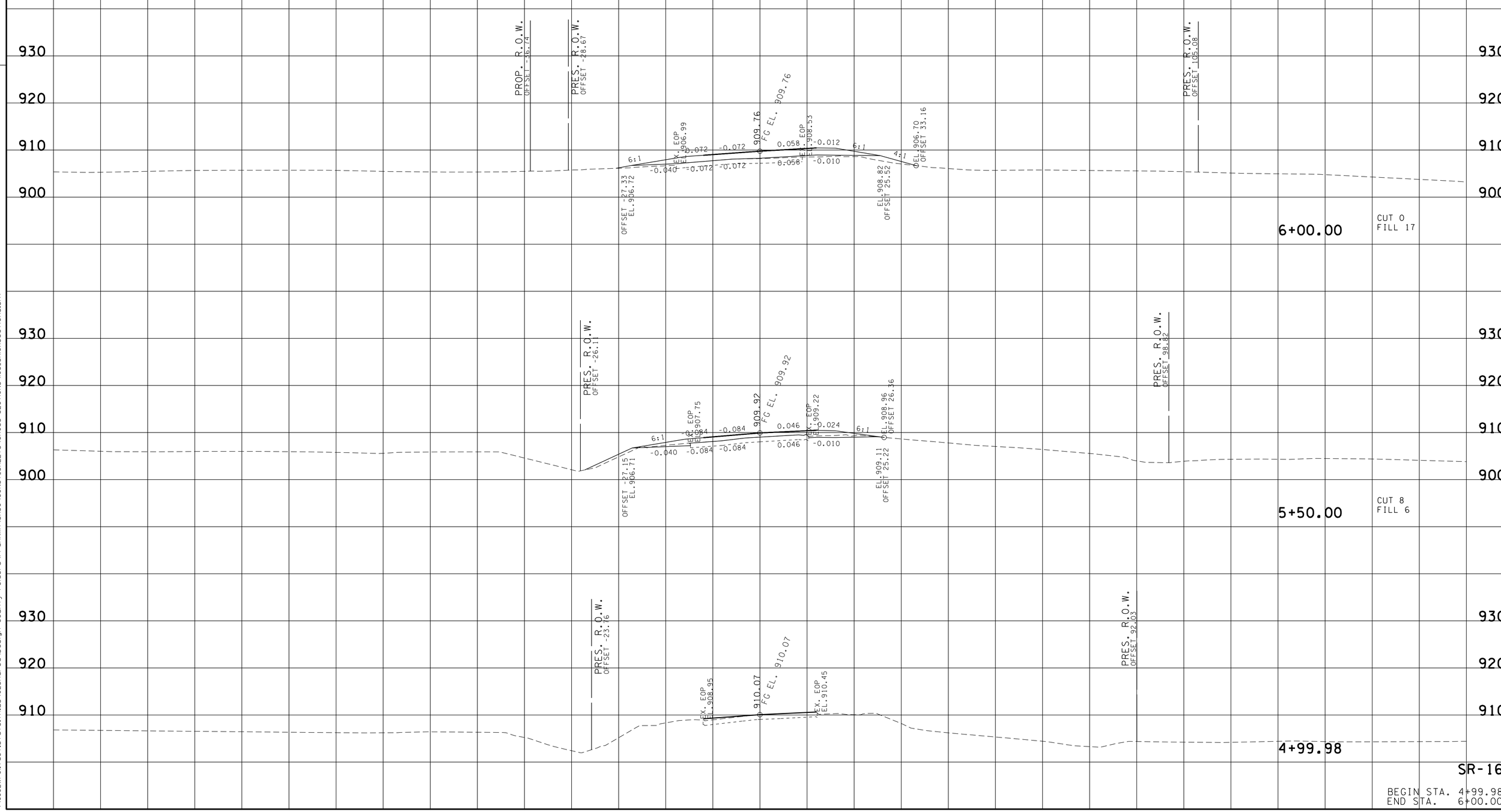
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	95
CONST.	2014	STP-50(31)	105

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SR-16

BEGIN STA. 4+99.98
END STA. 6+00.00

23-OCT-2014 13:41
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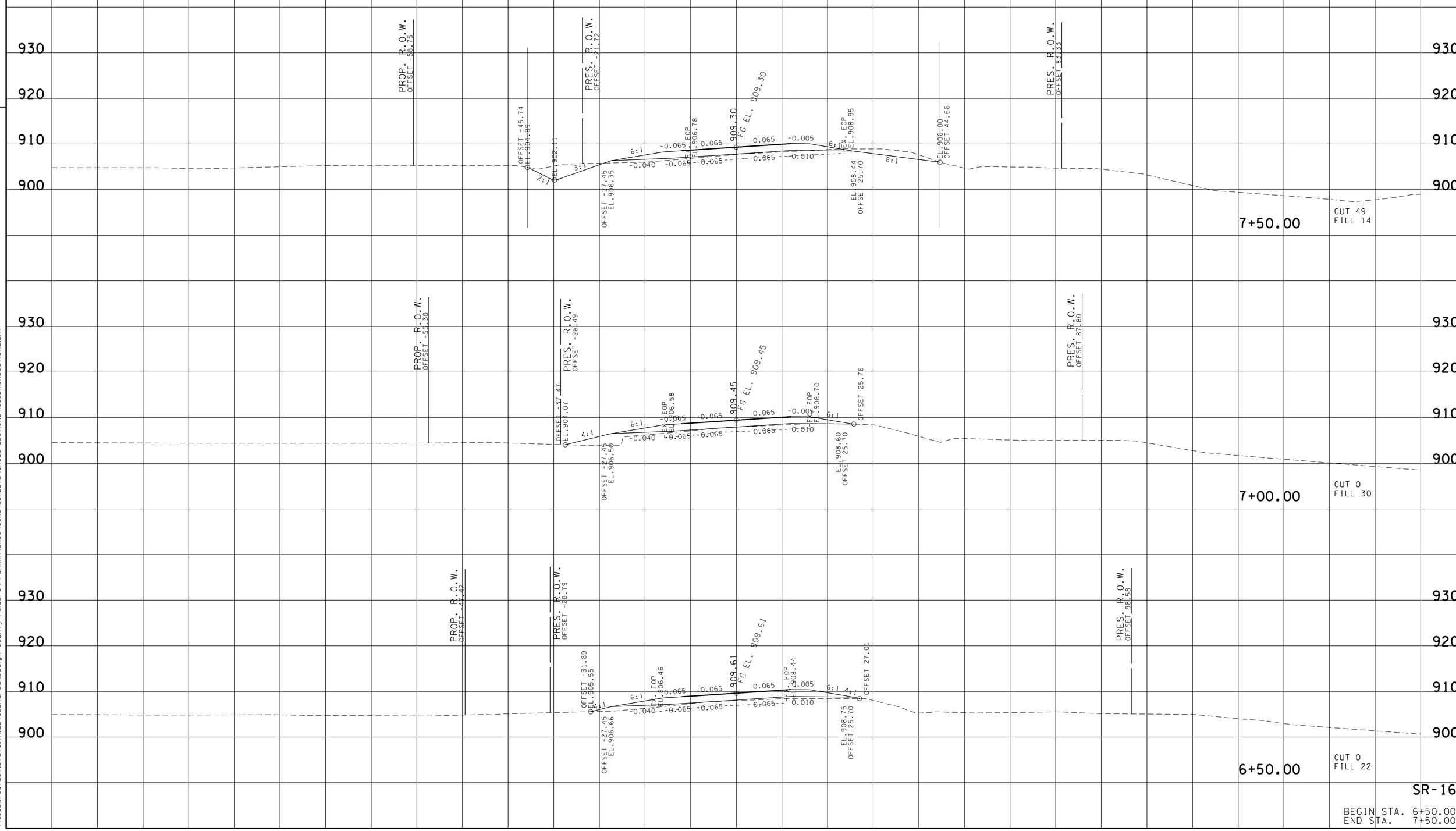
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	96
CONST.	2014	STP-50(31)	106

REV. 09-07-12- REVISED
CROSS-SECTION AT STA. 7+50
TO STA. 9+50

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SR-16

BEGIN STA. 6+50.00
END STA. 7+50.00

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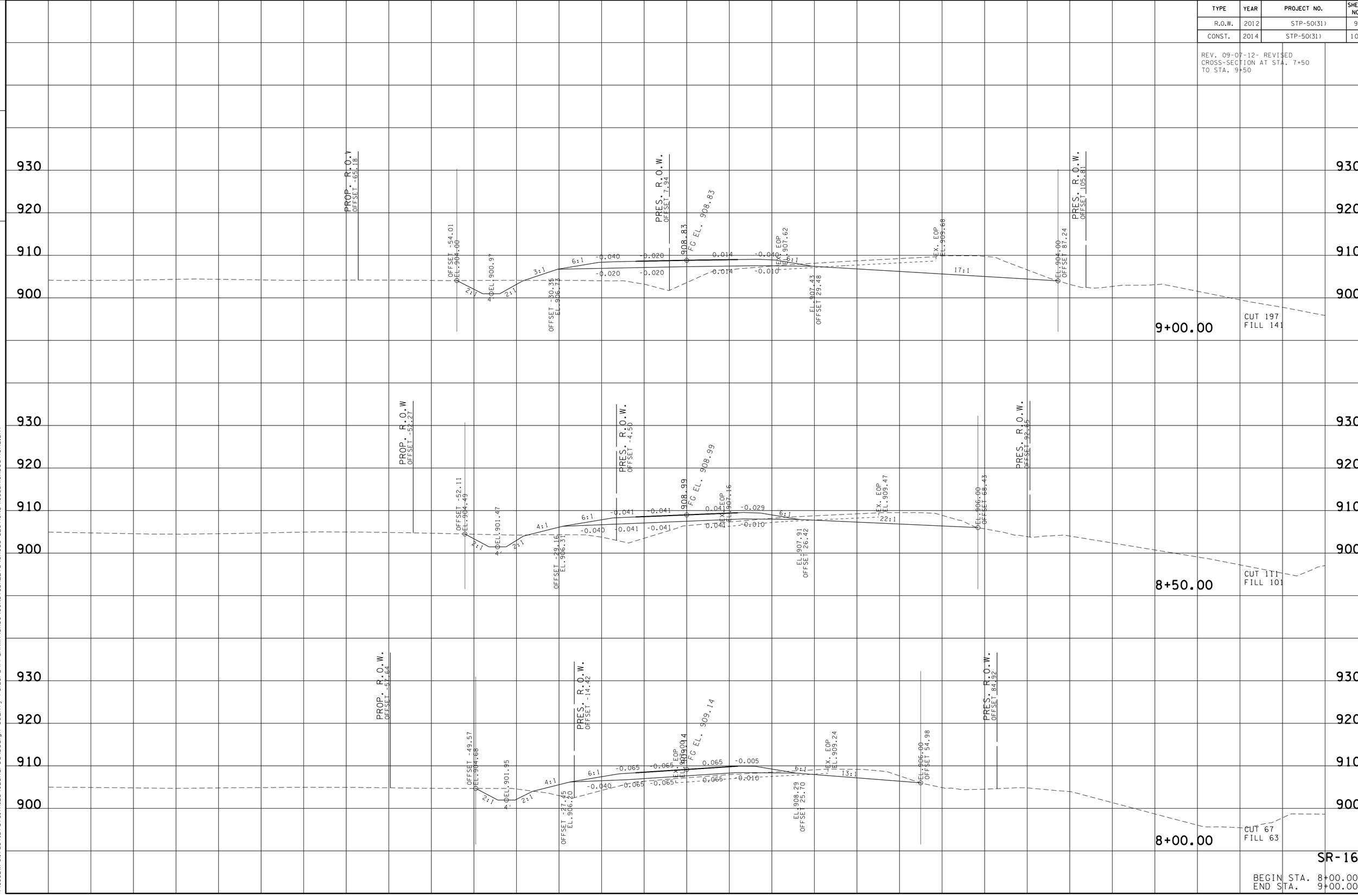
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	97
CONST.	2014	STP-50(31)	107

REV. 09-07-12- REVISED
CROSS-SECTION AT STA. 7+50
TO STA. 9+50

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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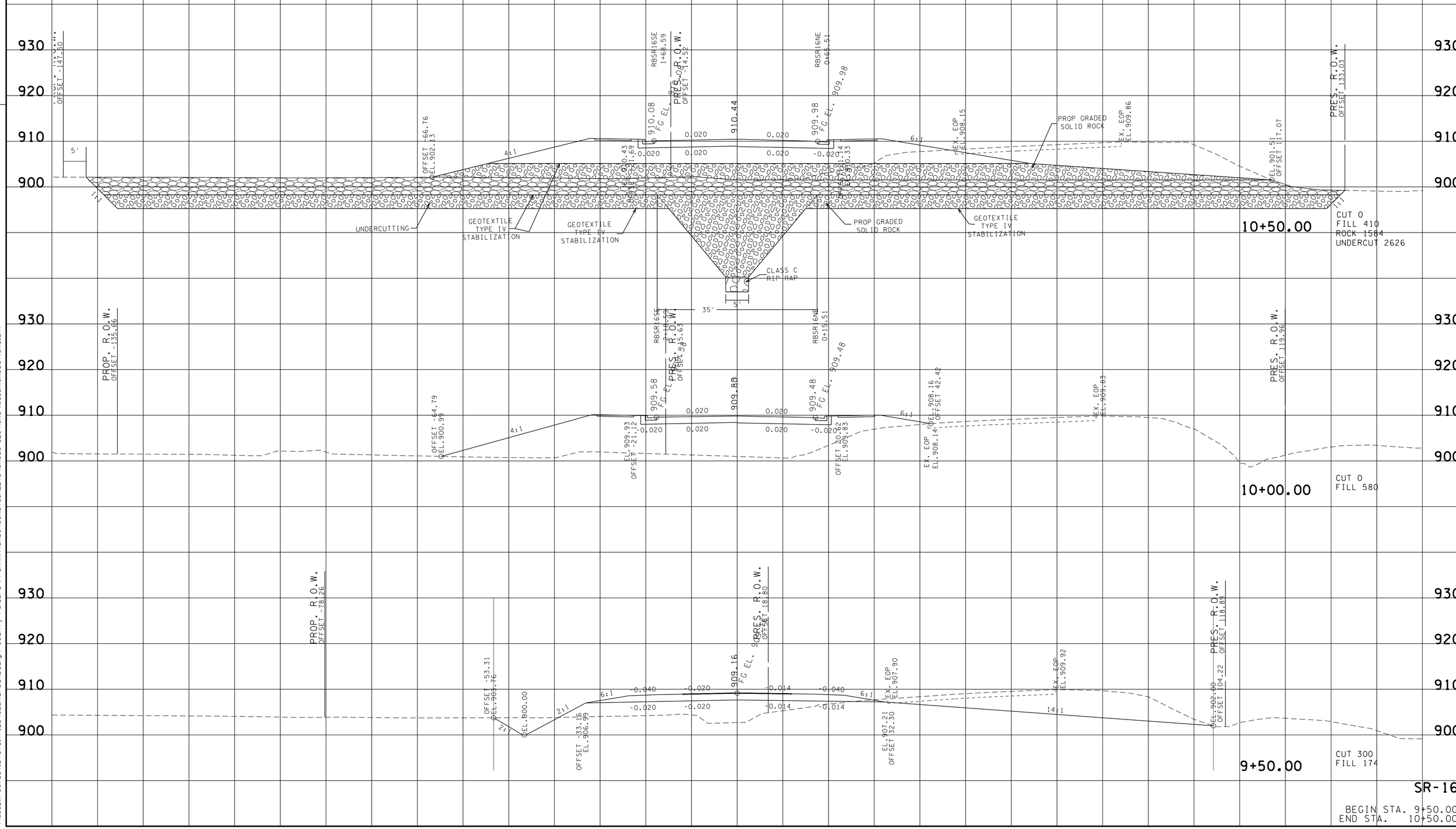
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	98
CONST.	2015	STP-50(31)	108

REV. 09-07-12- REVISED
CROSS-SECTION AT STA. 7+50
TO STA. 9+50

REV. 07-29-14- REVISED
CROSS-SECTION AT STA. 10+50
TO STA. 11+50

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



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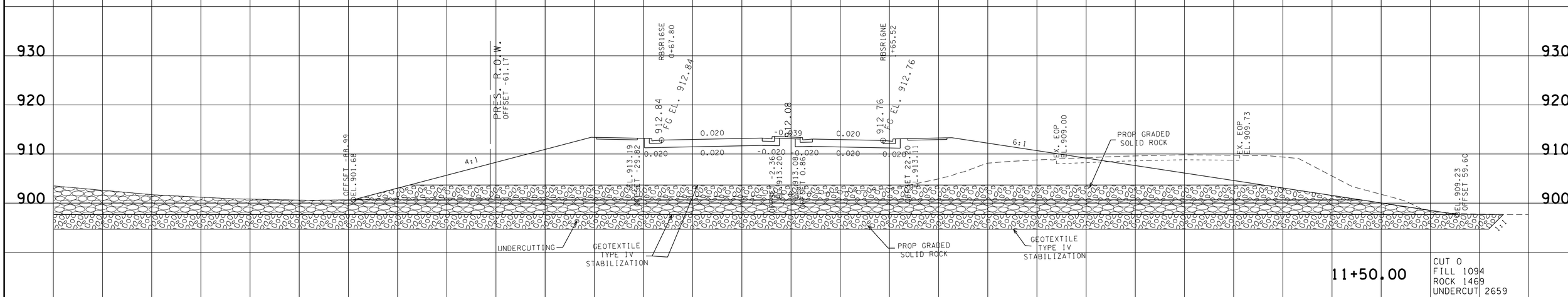
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	99
CONST.	2015	STP-50(31)	109

REV. 07-29-14- REVISED
CROSS-SECTION AT STA. 10+50
TO STA. 11+50

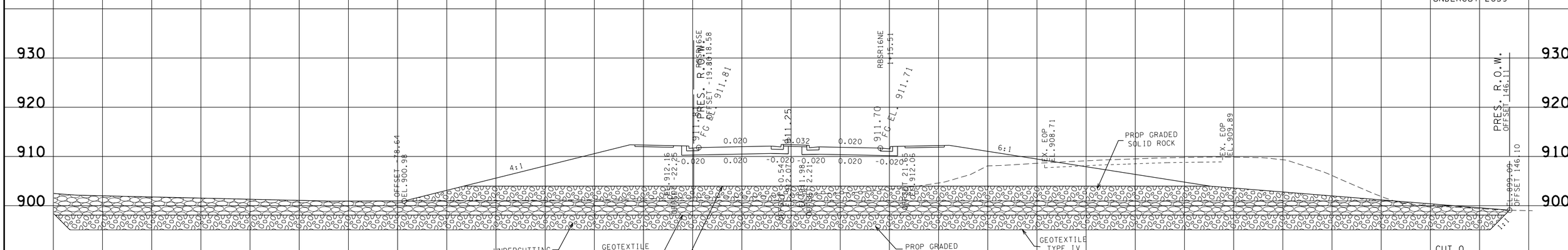
FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



11+50.00

CUT 0
FILL 1094
ROCK 1469
UNDERCUT 2659



11+00.00

CUT 0
FILL 816
ROCK 1405
UNDERCUT 2485
BEGIN STA. 11+00.00
END STA. 11+50.00

SR-16

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

23-OCT-2014 13:41
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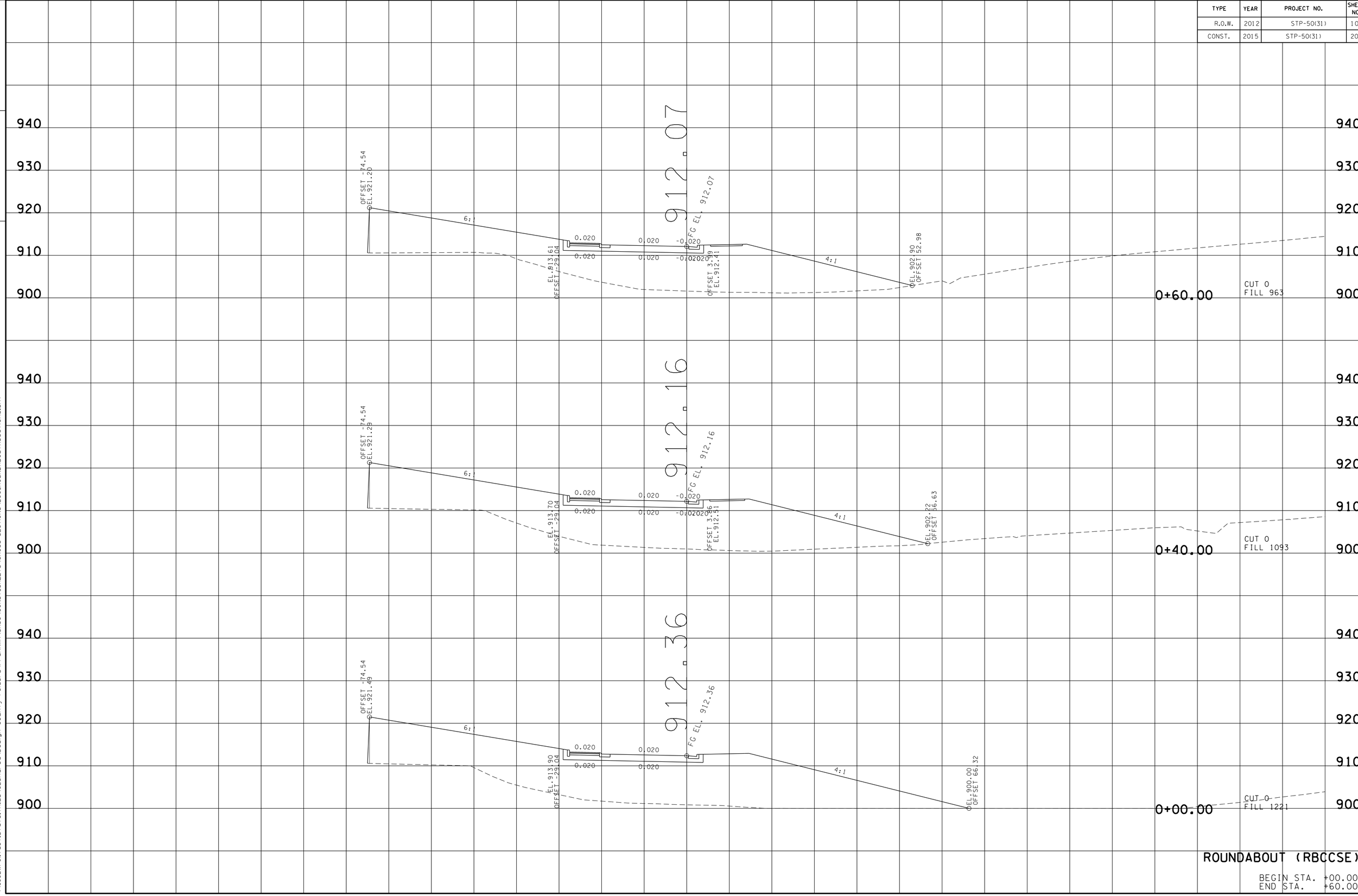
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	100
CONST.	2015	STP-50(31)	200

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



ROUNDABOUT (RBCCSE)

BEGIN STA. +00.00
END STA. +60.00

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23-OCT-2014 13:41
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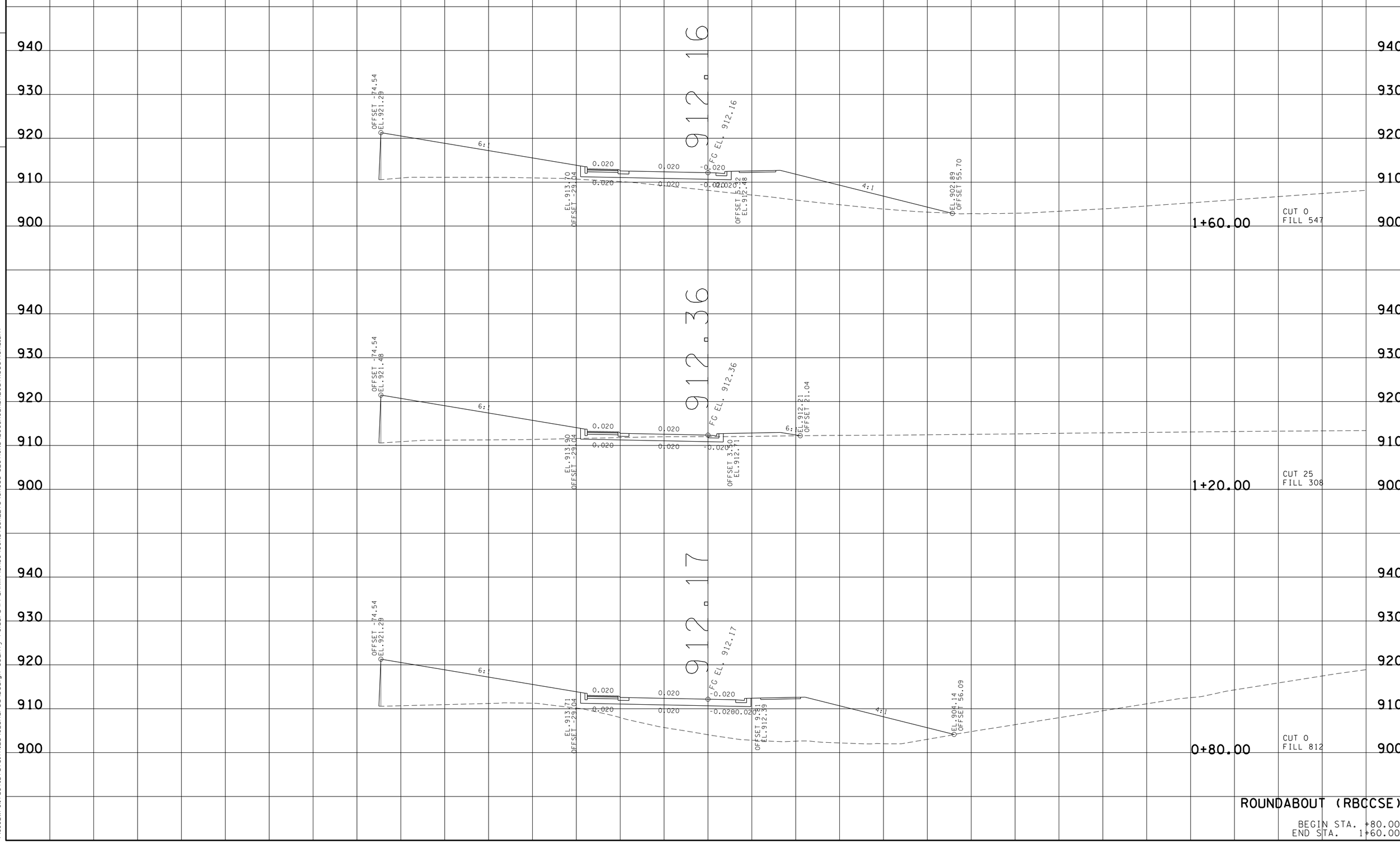
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	101
CONST.	2015	STP-50(31)	201

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



ROUNDABOUT (RBCCSE)

BEGIN STA. 0+80.00
END STA. 1+60.00

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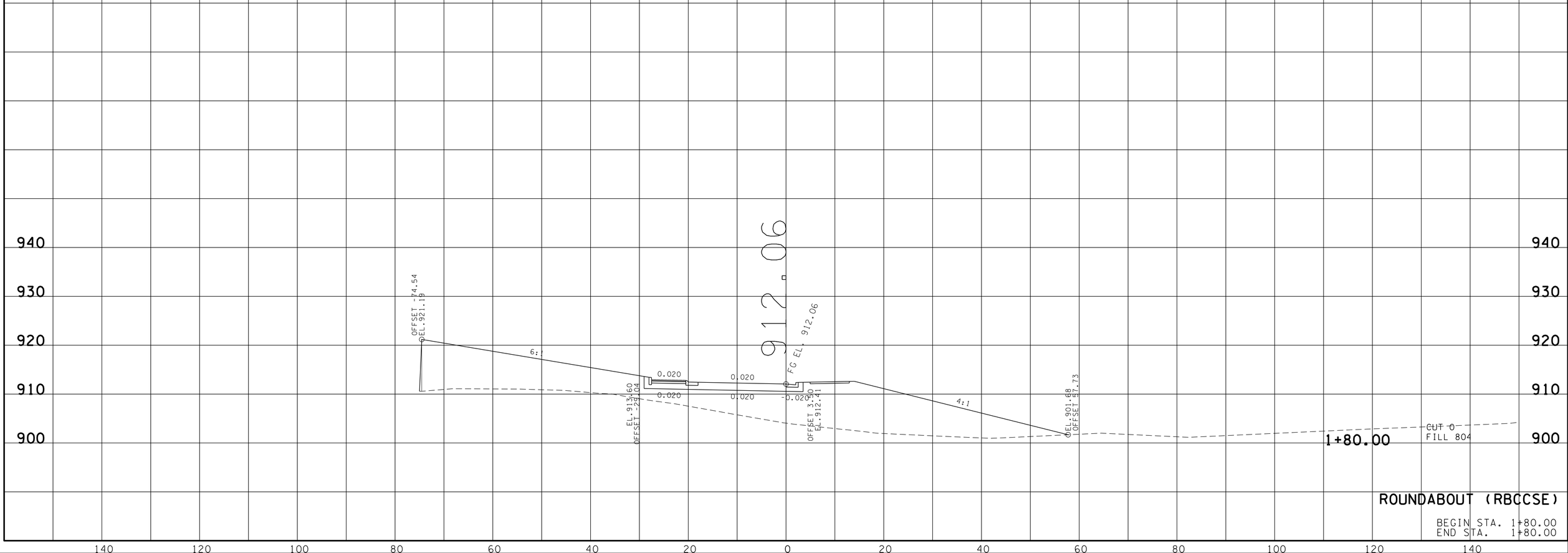
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	102
CONST.	2015	STP-50(31)	202

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



ROUNDABOUT (RBCCSE)

BEGIN STA. 1+80.00
END STA. 1+80.00

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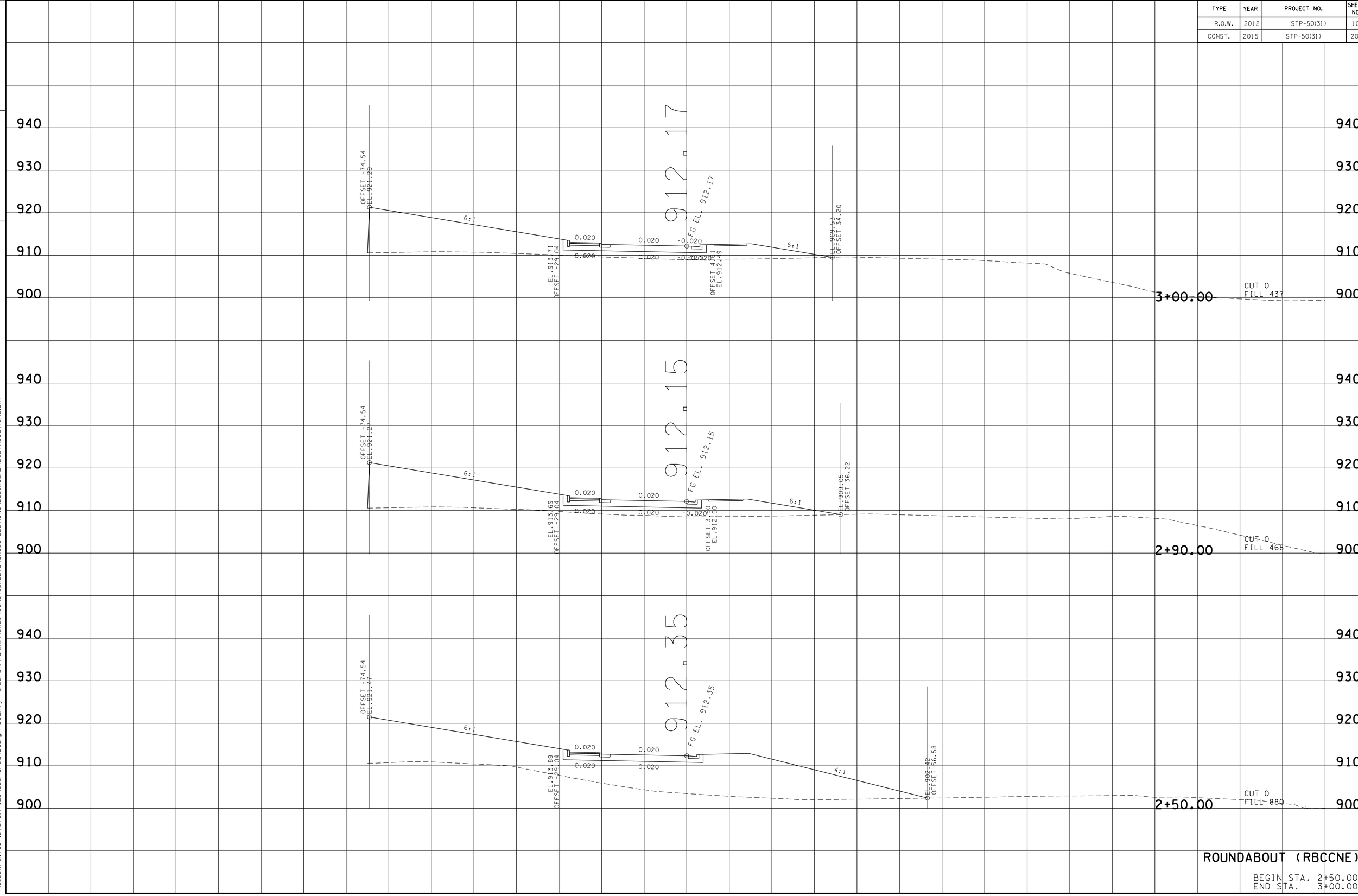
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	103
CONST.	2015	STP-50(31)	203

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



ROUNDABOUT (RBCCNE)

BEGIN STA. 2+50.00
END STA. 3+00.00

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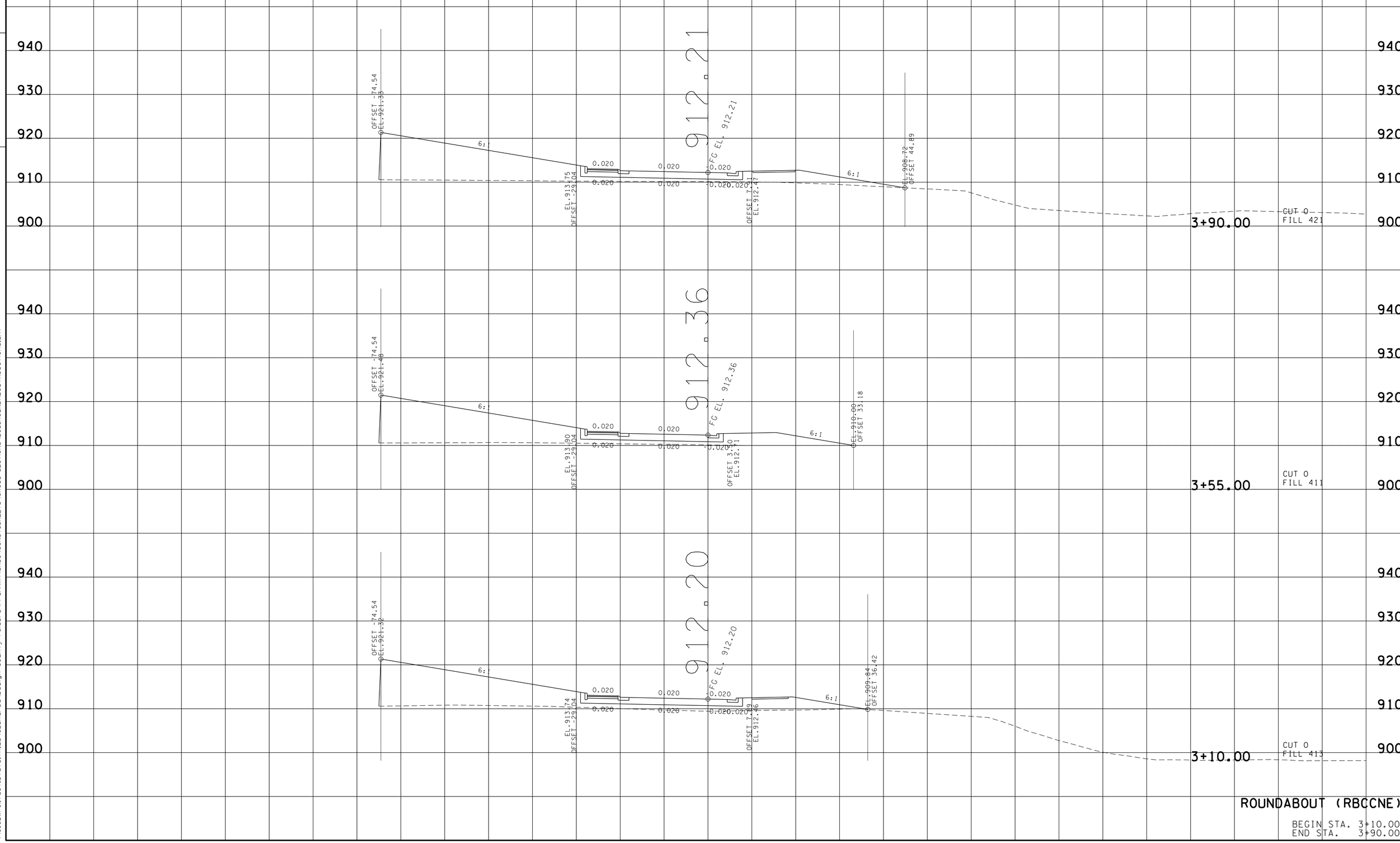
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	104
CONST.	2015	STP-50(31)	204

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



ROUNDABOUT (RBCCNE)

BEGIN STA. 3+10.00
END STA. 3+90.00

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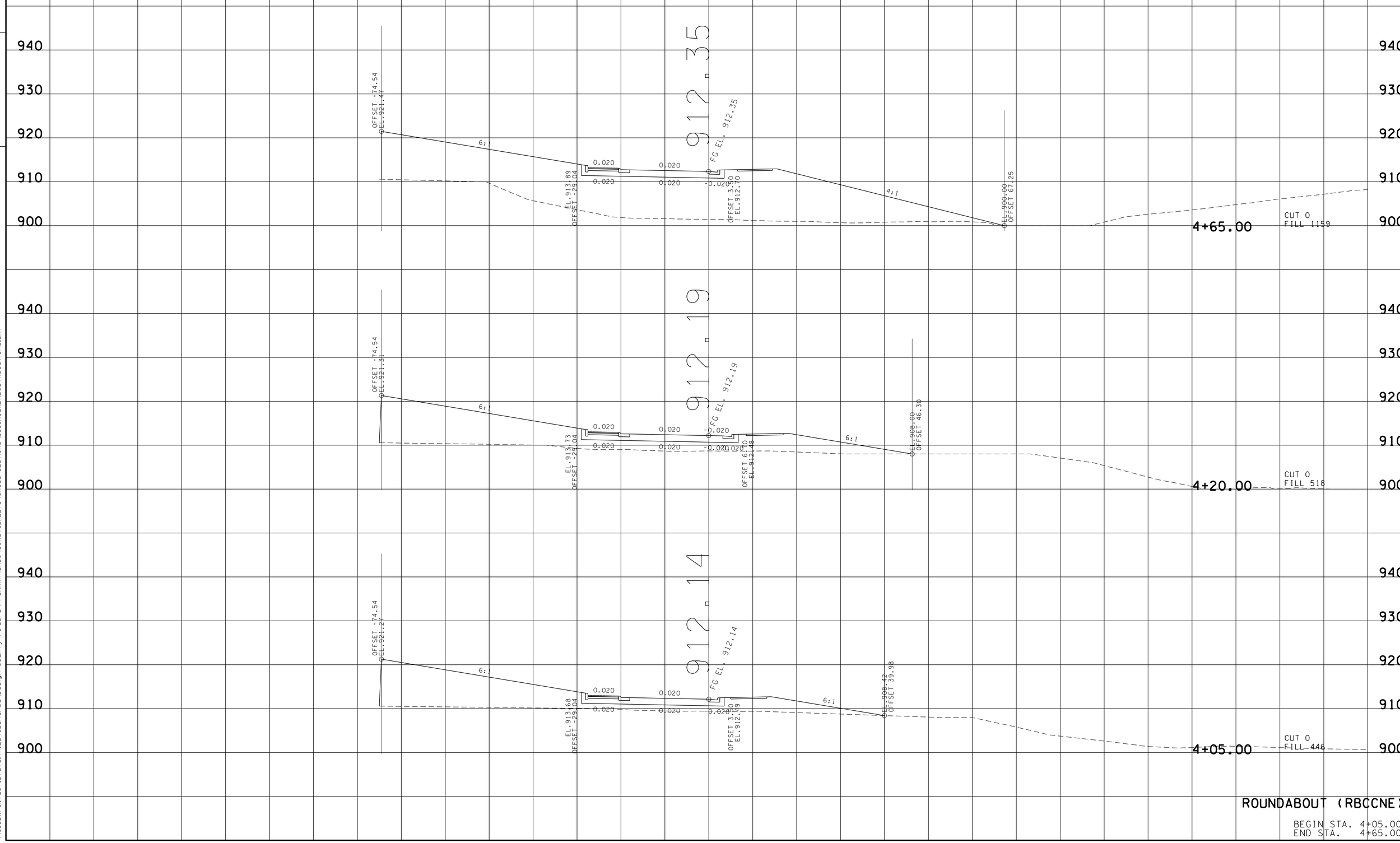
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	105
CONST.	2015	STP-50(31)	205

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



ROUNDABOUT (RBCCNE)

BEGIN STA. 4+05.00
END STA. 4+65.00

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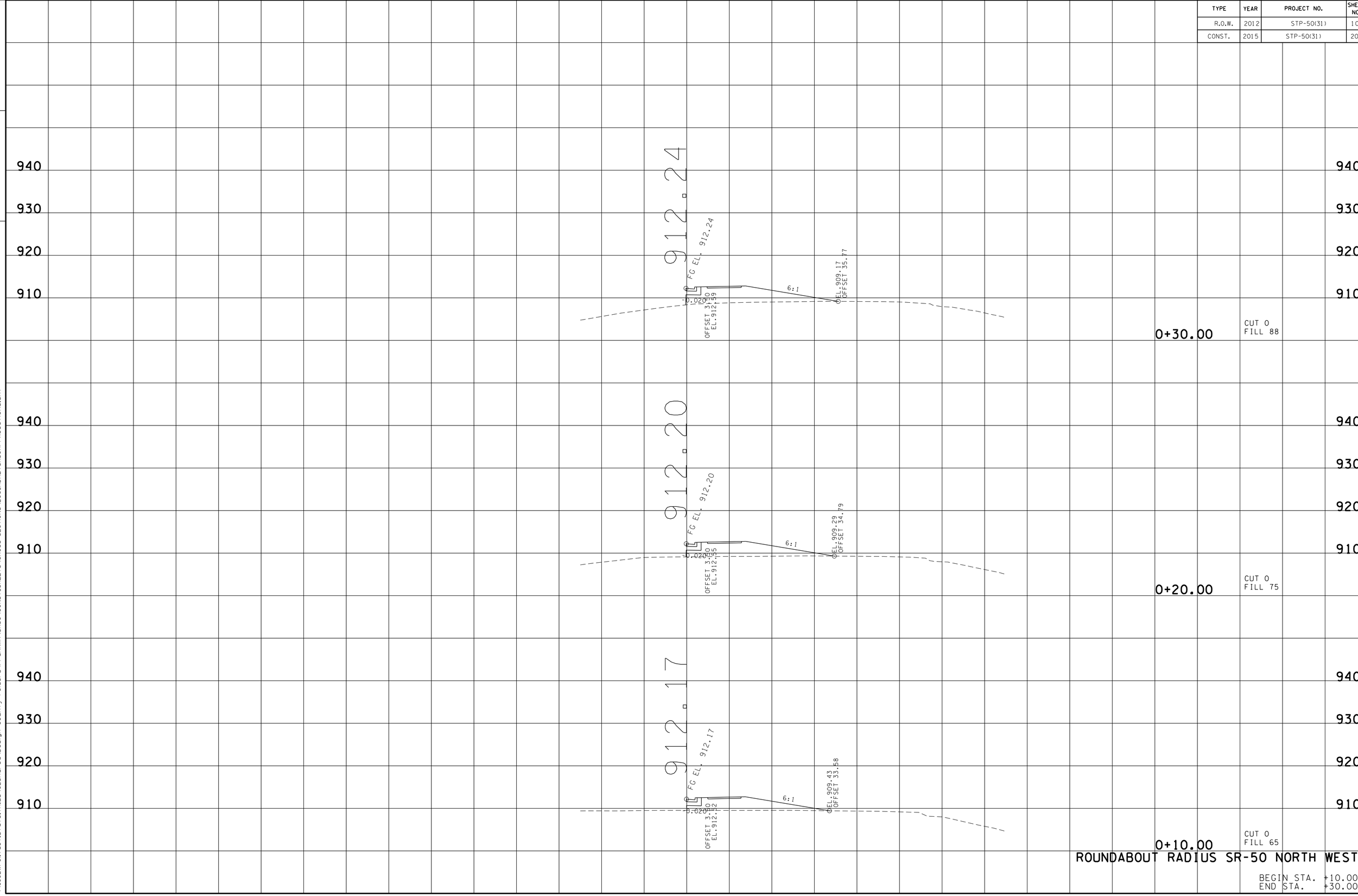
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	106
CONST.	2015	STP-50(31)	206

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



ROUNDABOUT RADIUS SR-50 NORTH WEST

BEGIN STA. +10.00
END STA. +30.00

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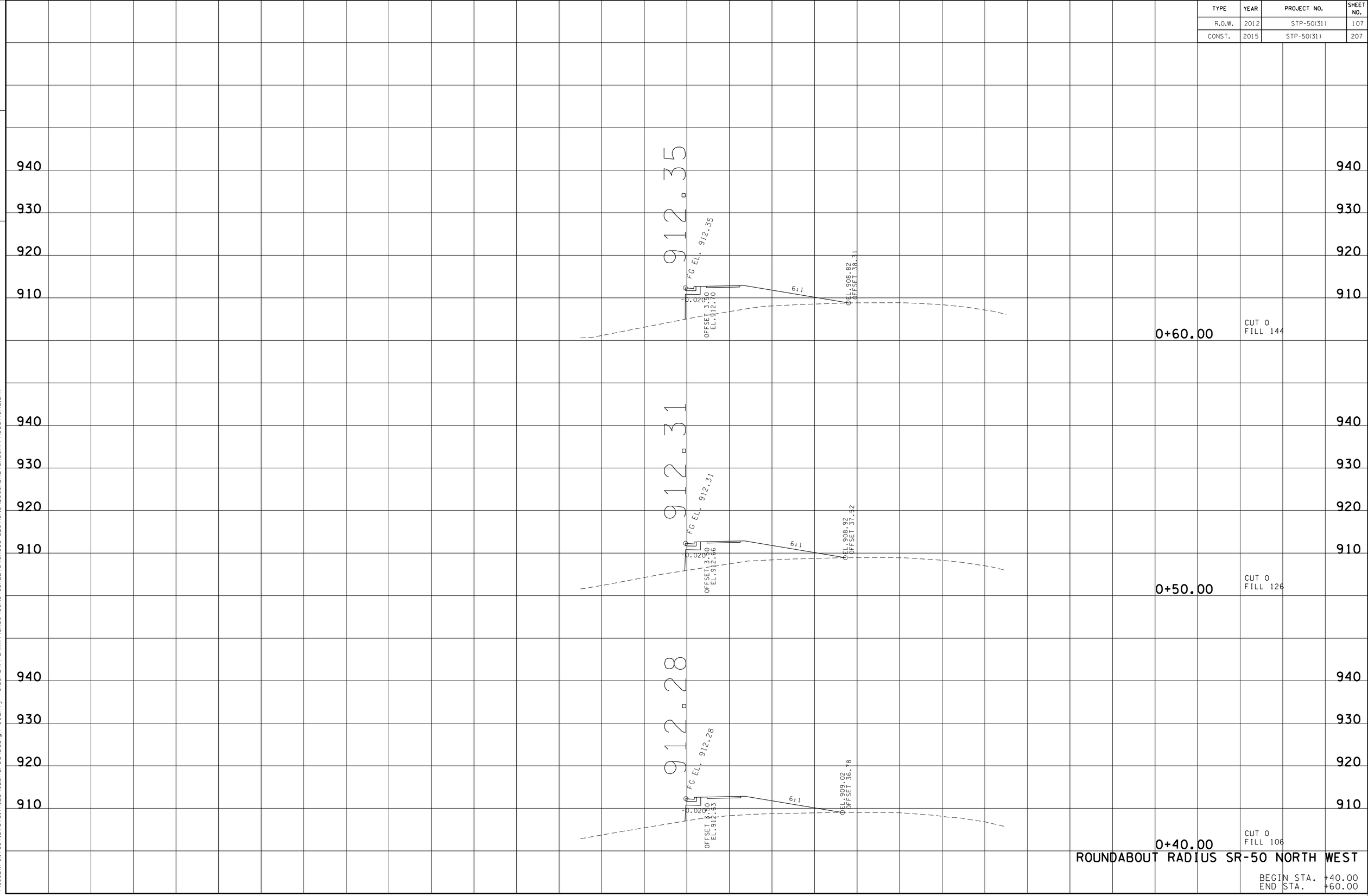
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	107
CONST.	2015	STP-50(31)	207

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



ROUNDABOUT RADIUS SR-50 NORTH WEST

BEGIN STA. +40.00
END STA. +60.00

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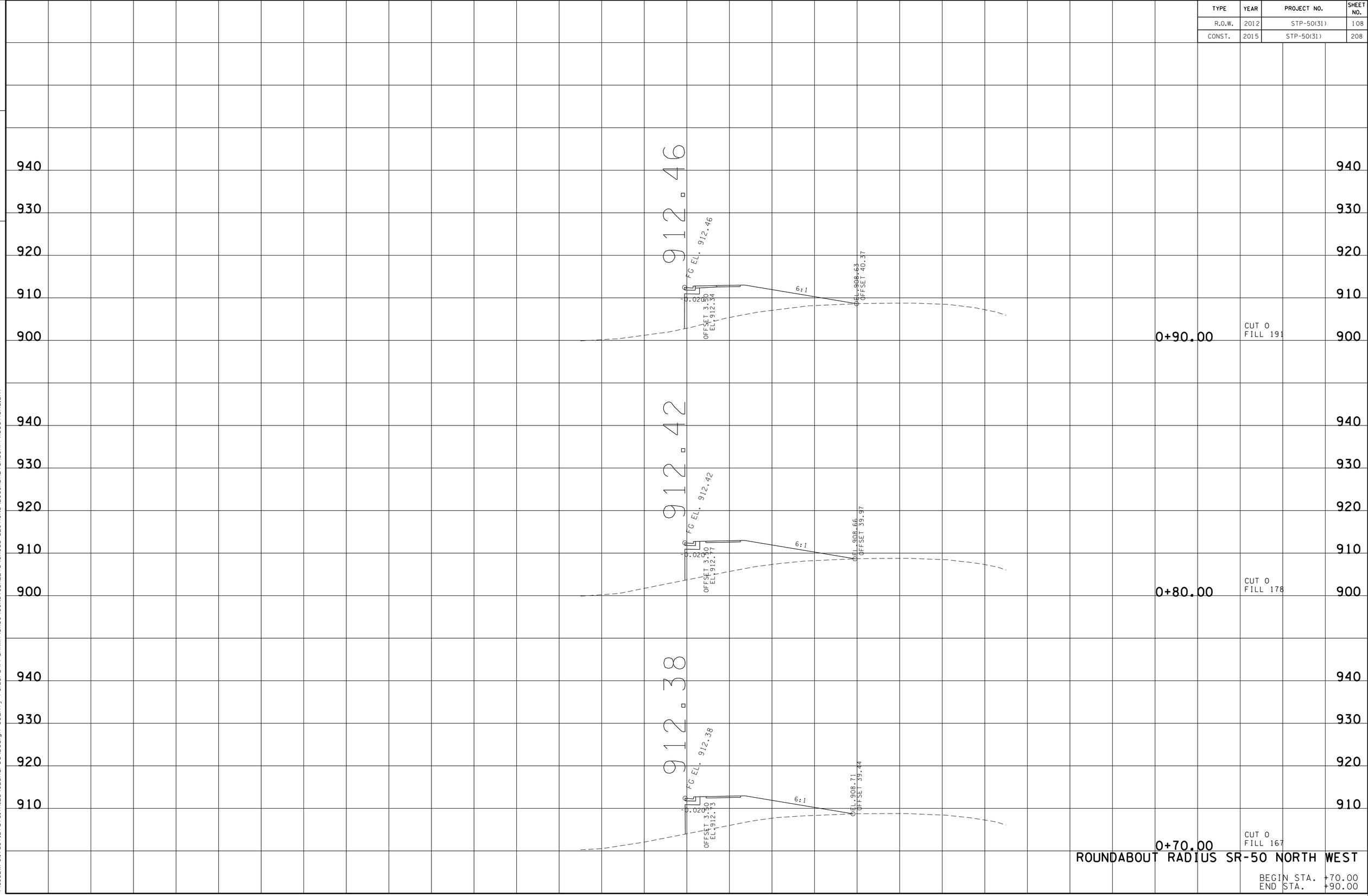
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	108
CONST.	2015	STP-50(31)	208



ROUNDABOUT RADIUS SR-50 NORTH WEST

BEGIN STA. +70.00
END STA. +90.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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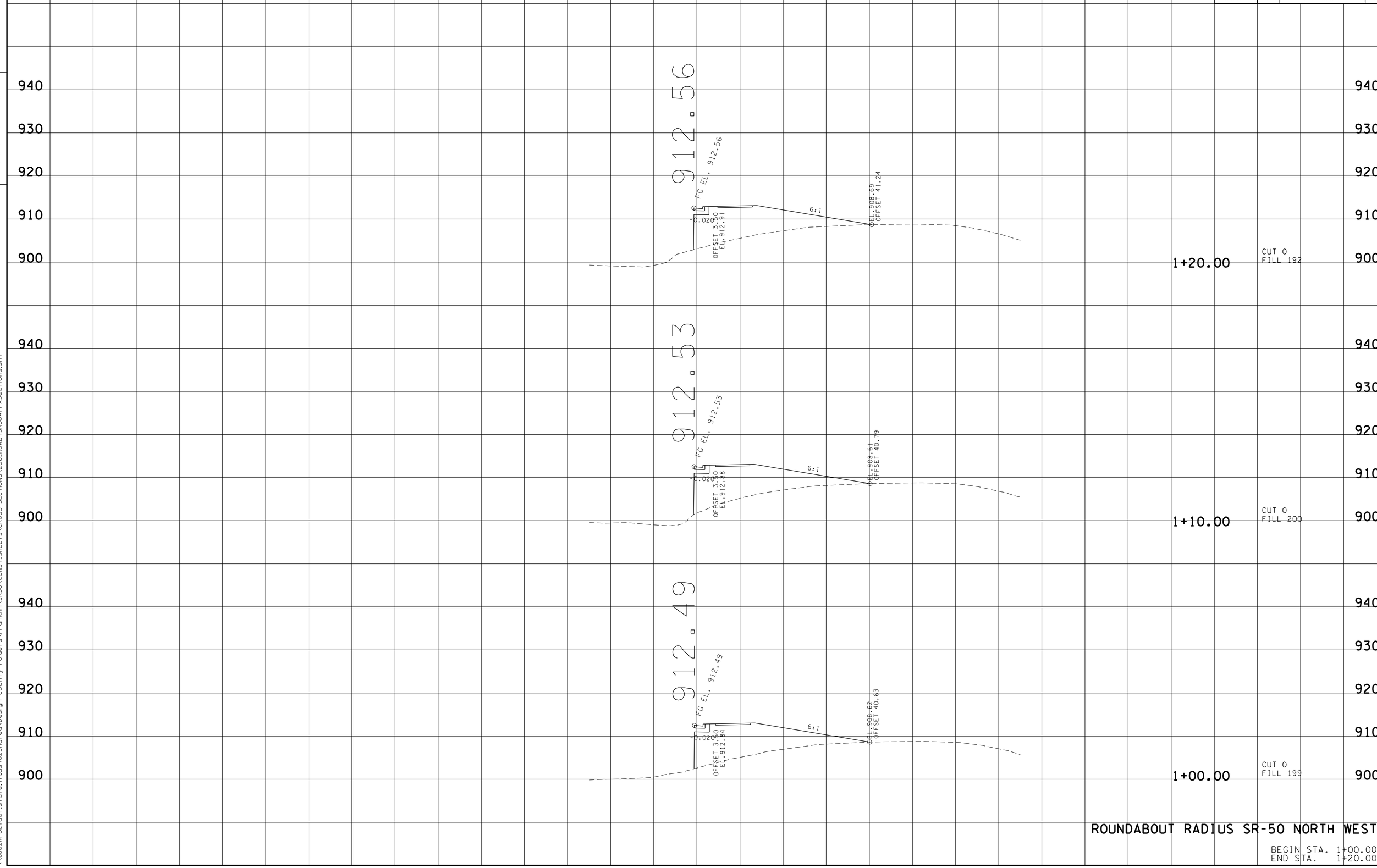
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	109
CONST.	2015	STP-50(31)	209

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



ROUNDABOUT RADIUS SR-50 NORTH WEST

BEGIN STA. 1+00.00
END STA. 1+20.00

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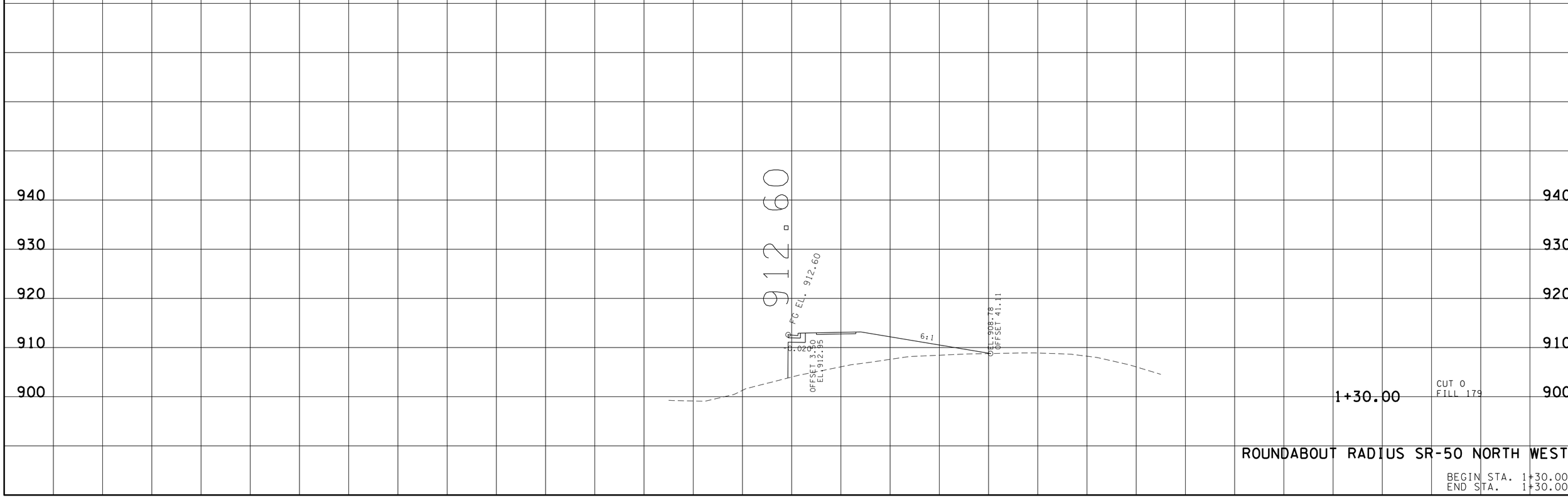
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	110
CONST.	2015	STP-50(31)	210



ROUNDABOUT RADIUS SR-50 NORTH WEST

BEGIN STA. 1+30.00
END STA. 1+30.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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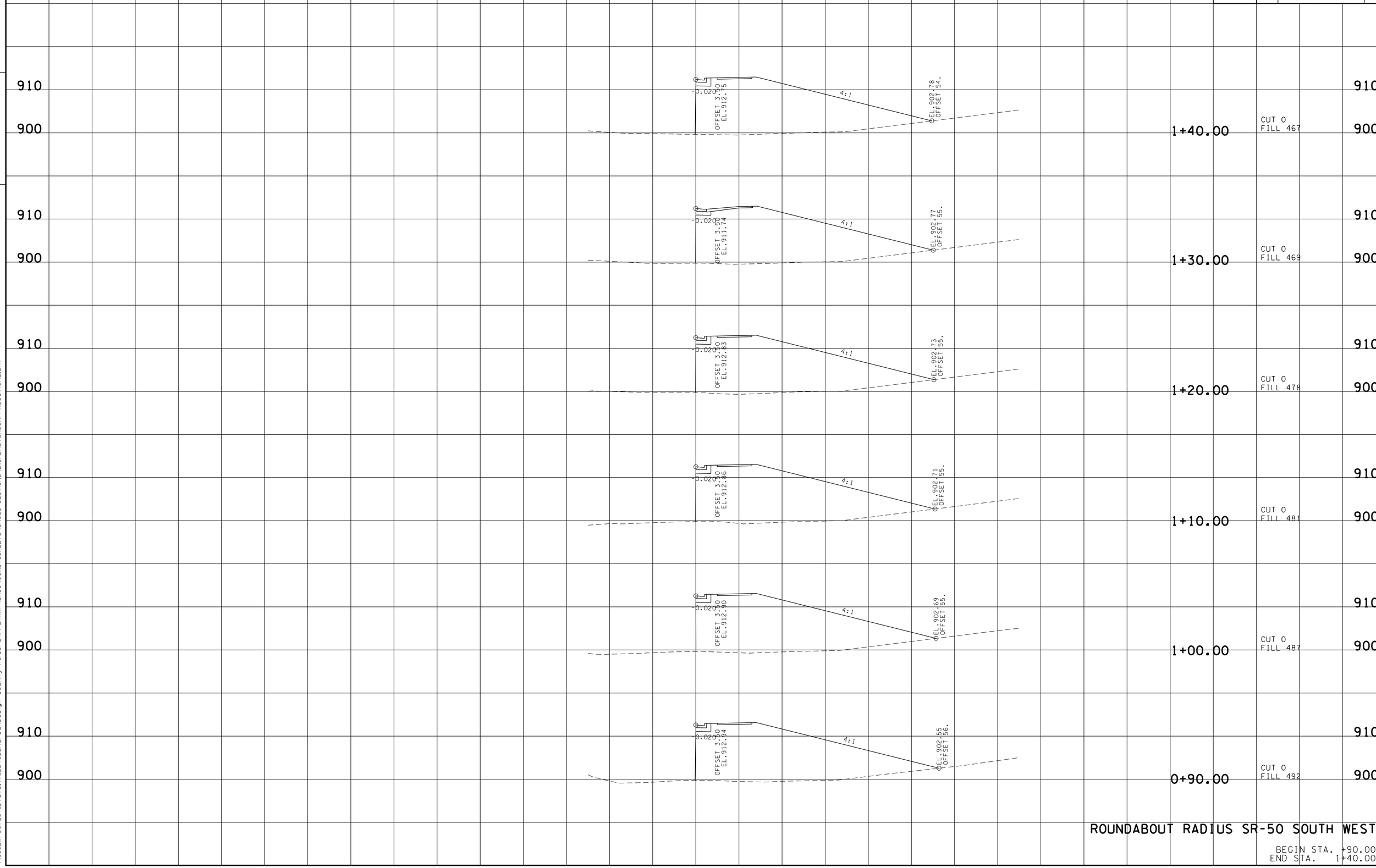
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	111
CONST.	2015	STP-50(31)	211

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



ROUNDABOUT RADIUS SR-50 SOUTH WEST

BEGIN STA. +90.00
END STA. 1+40.00

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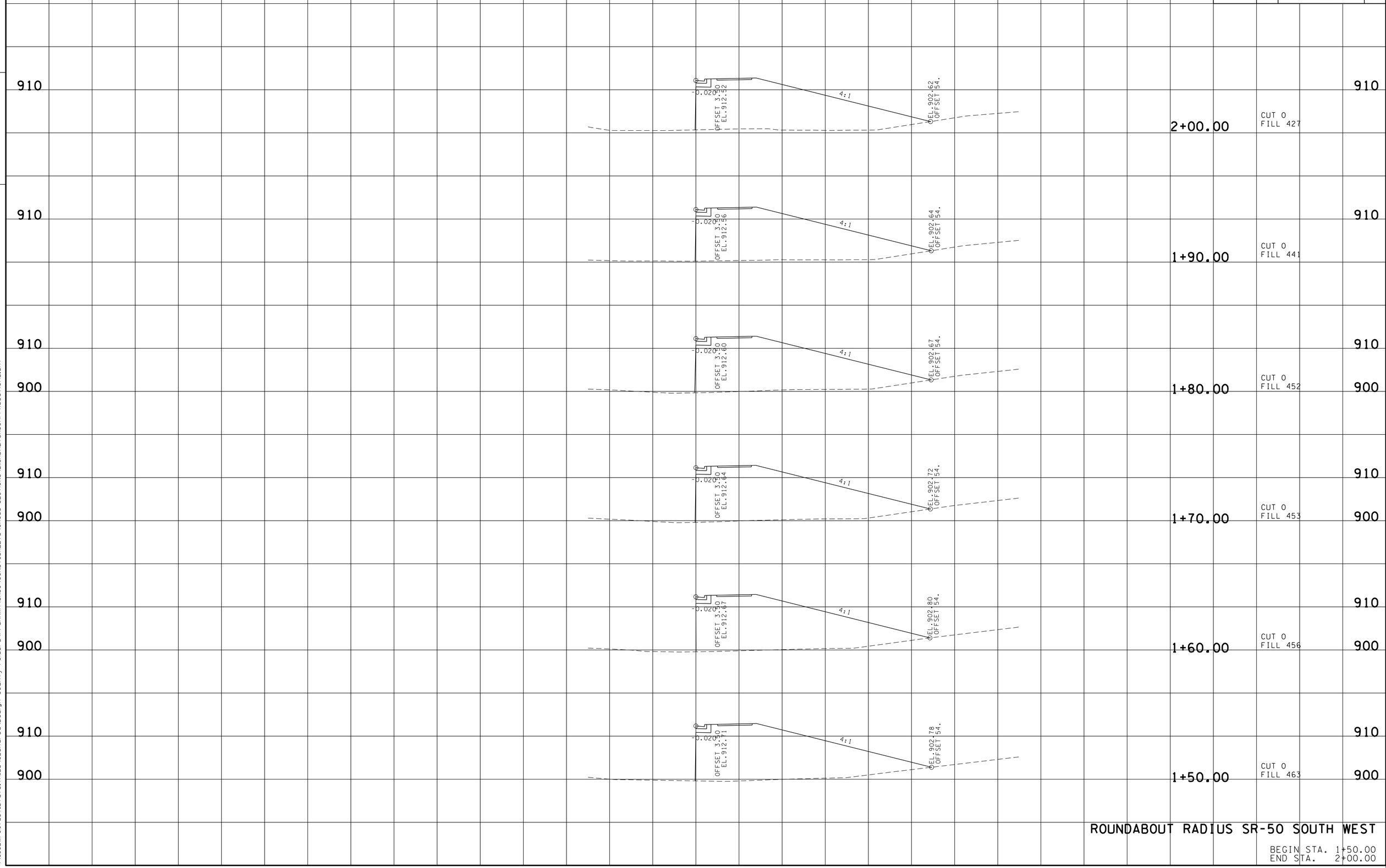
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	112
CONST.	2015	STP-50(31)	212



ROUNDABOUT RADIUS SR-50 SOUTH WEST

BEGIN STA. 1+50.00
END STA. 2+00.00

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FILE NO.

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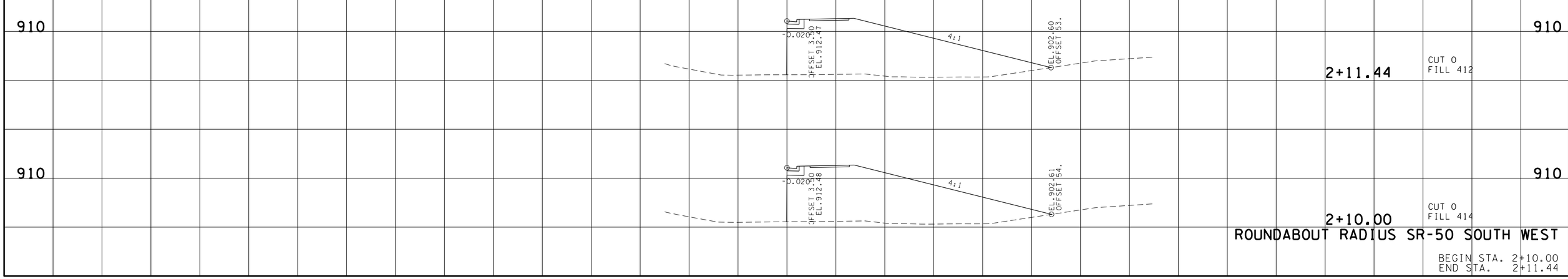
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	113
CONST.	2015	STP-50(31)	213

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



ROUNDABOUT RADIUS SR-50 SOUTH WEST

BEGIN STA. 2+10.00
END STA. 2+11.44

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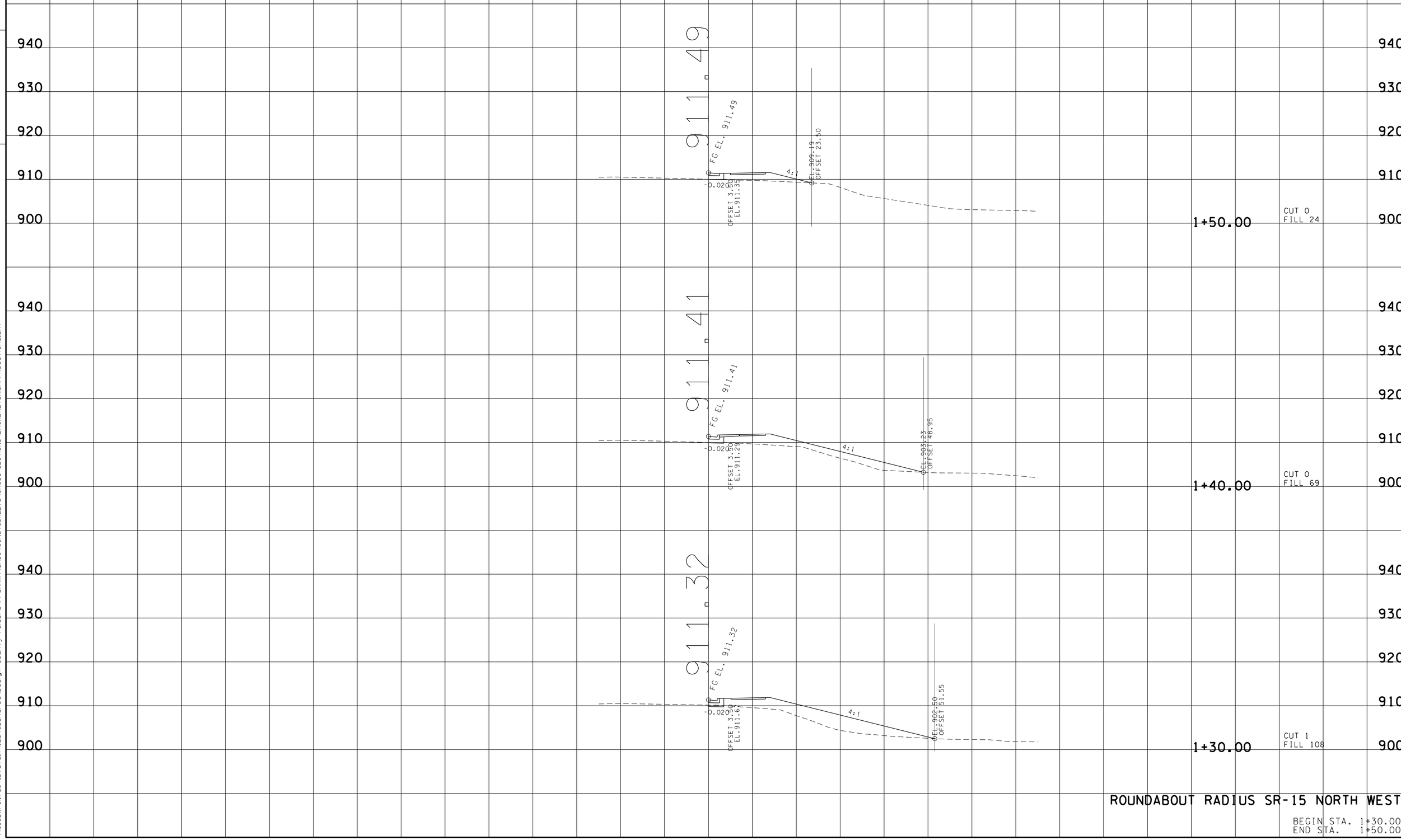
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	114
CONST.	2015	STP-50(31)	214

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



ROUNDABOUT RADIUS SR-15 NORTH WEST

BEGIN STA. 1+30.00
END STA. 1+50.00

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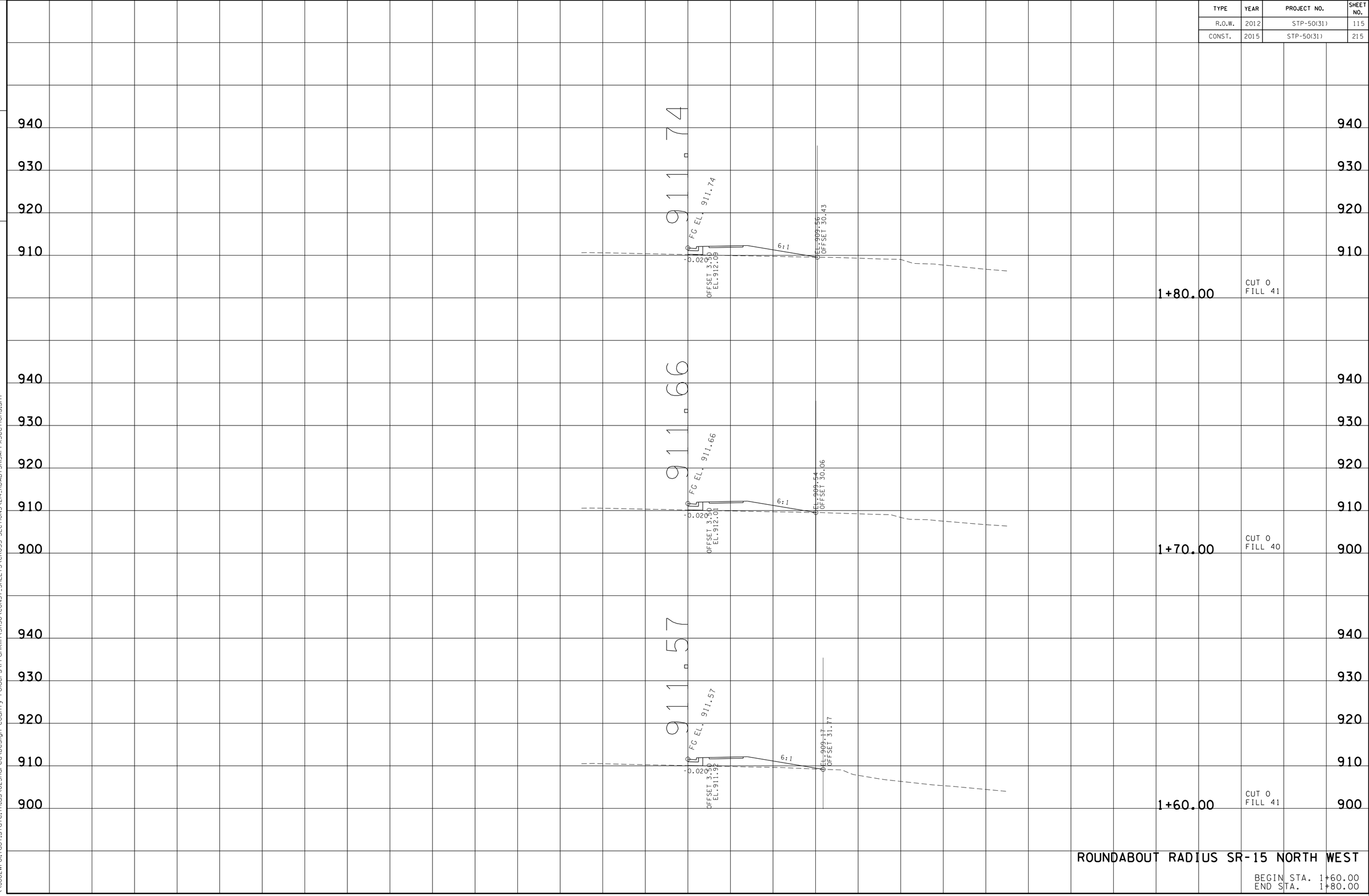
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	115
CONST.	2015	STP-50(31)	215



ROUNDABOUT RADIUS SR-15 NORTH WEST

BEGIN STA. 1+60.00
END STA. 1+80.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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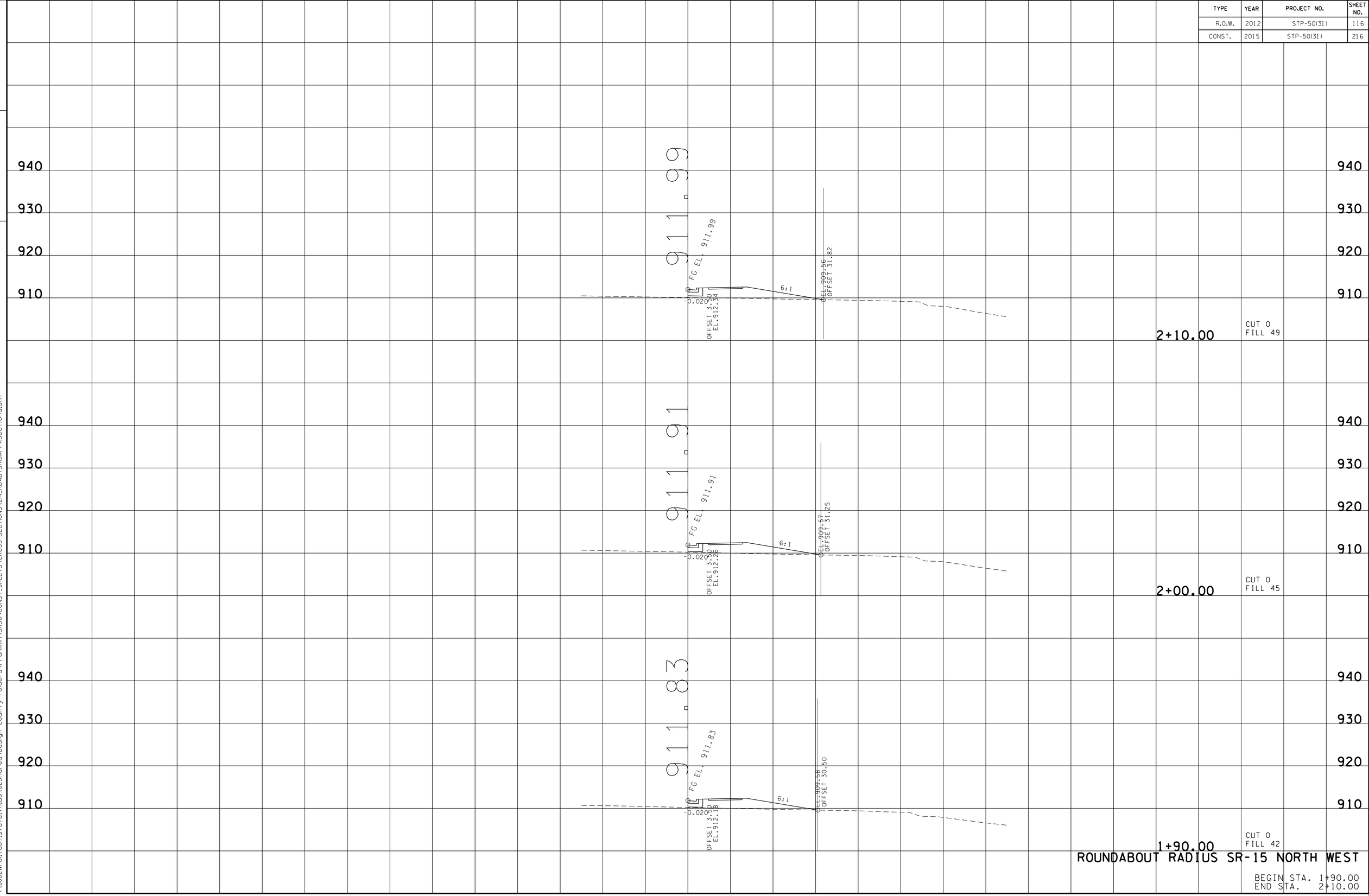
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	116
CONST.	2015	STP-50(31)	216



ROUNDABOUT RADIUS SR-15 NORTH WEST

BEGIN STA. 1+90.00
END STA. 2+10.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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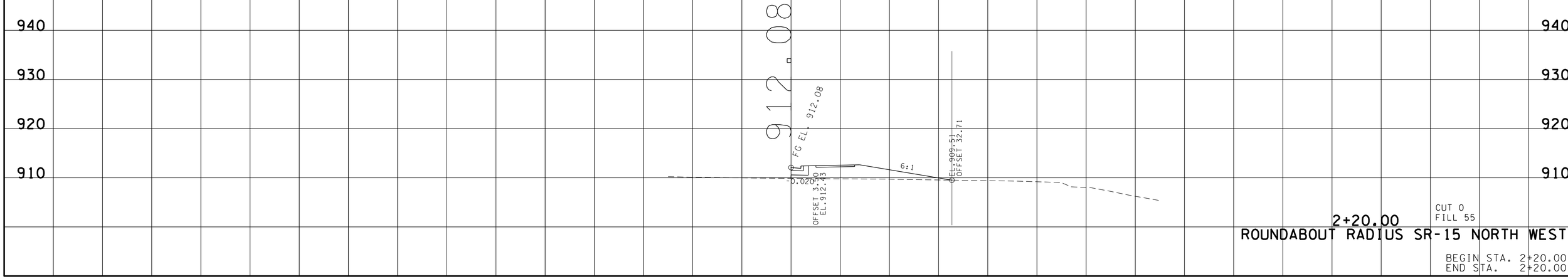
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	117
CONST.	2015	STP-50(31)	217

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



2+20.00

CUT 0
FILL 55

ROUNDABOUT RADIUS SR-15 NORTH WEST

BEGIN STA. 2+20.00
END STA. 2+20.00

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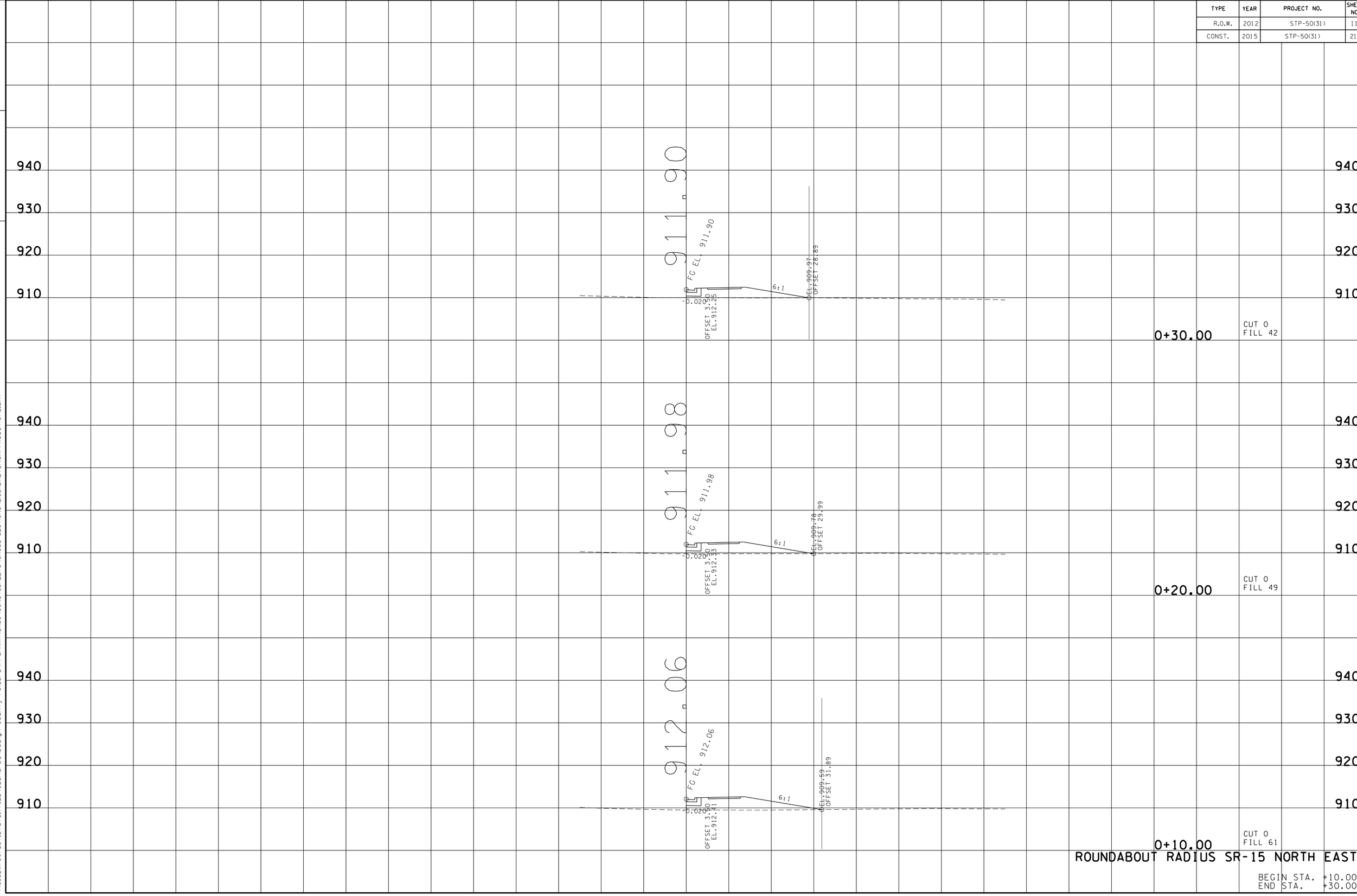
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	118
CONST.	2015	STP-50(31)	218



ROUNDABOUT RADIUS SR-15 NORTH EAST

BEGIN STA. +10.00
END STA. +30.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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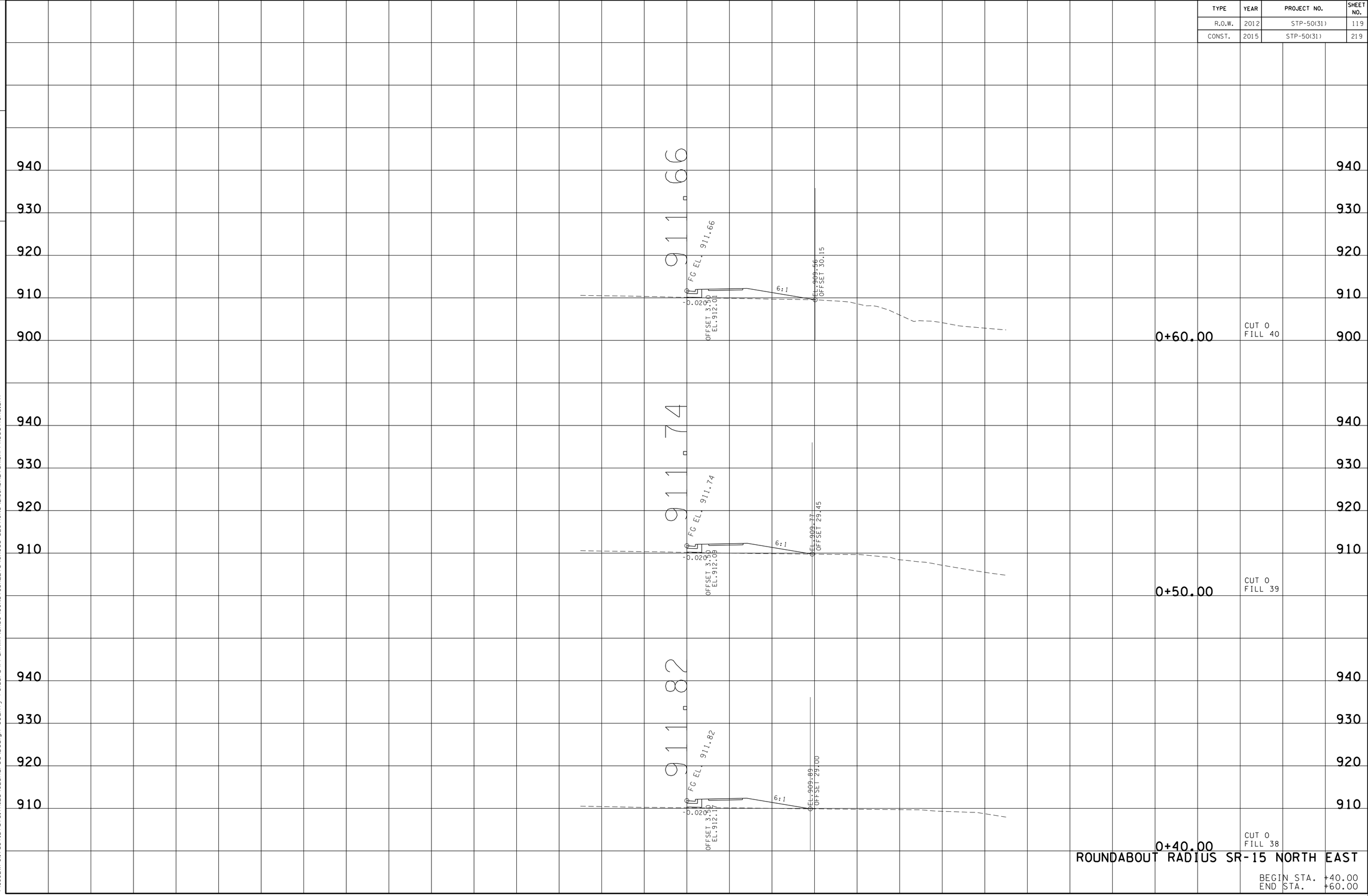
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	119
CONST.	2015	STP-50(31)	219



ROUNDABOUT RADIUS SR-15 NORTH EAST

BEGIN STA. +40.00
END STA. +60.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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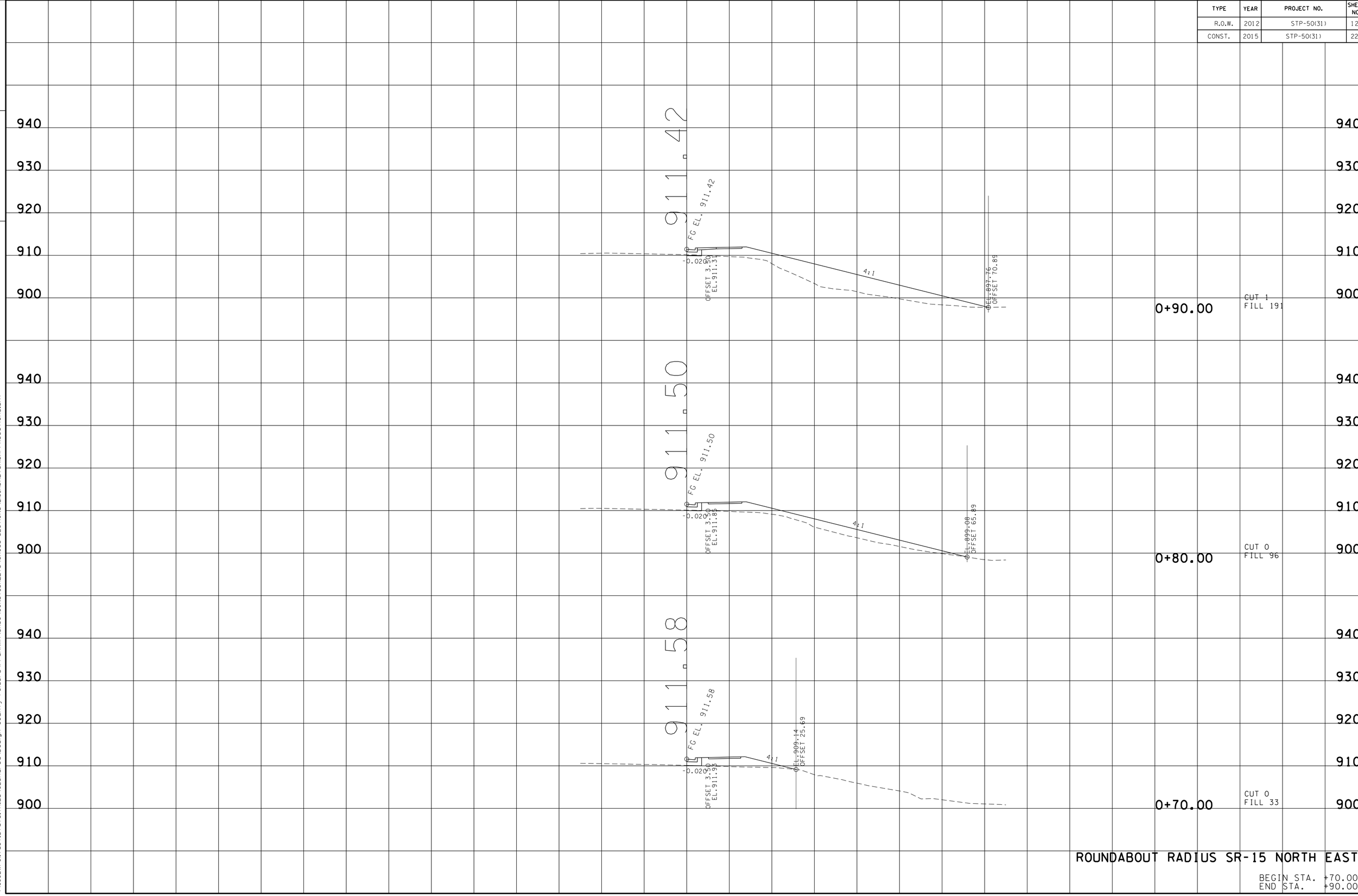
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	120
CONST.	2015	STP-50(31)	220

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



ROUNDABOUT RADIUS SR-15 NORTH EAST

BEGIN STA. +70.00
END STA. +90.00

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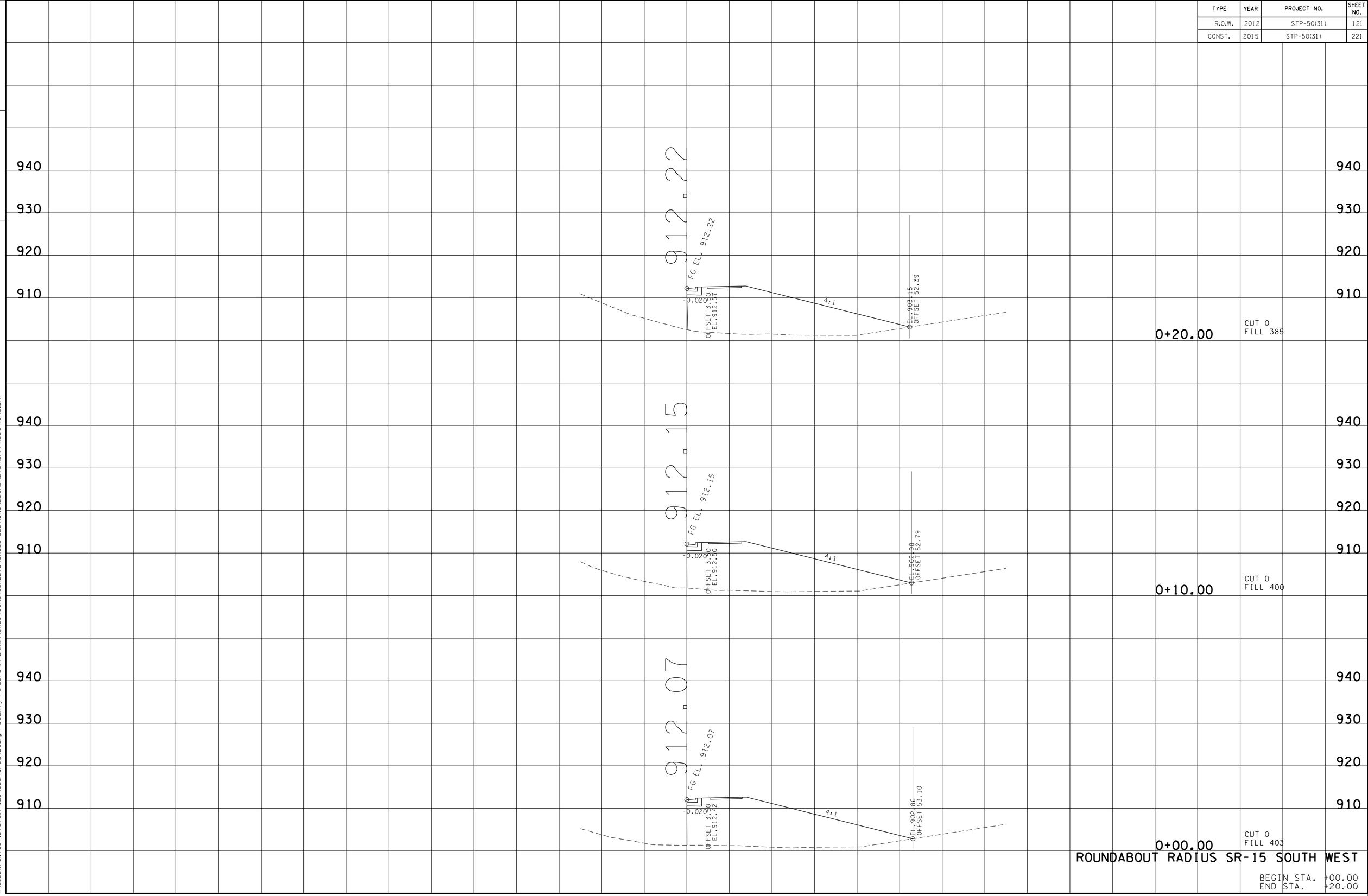
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	121
CONST.	2015	STP-50(31)	221



ROUNDABOUT RADIUS SR-15 SOUTH WEST

BEGIN STA. +00.00
END STA. +20.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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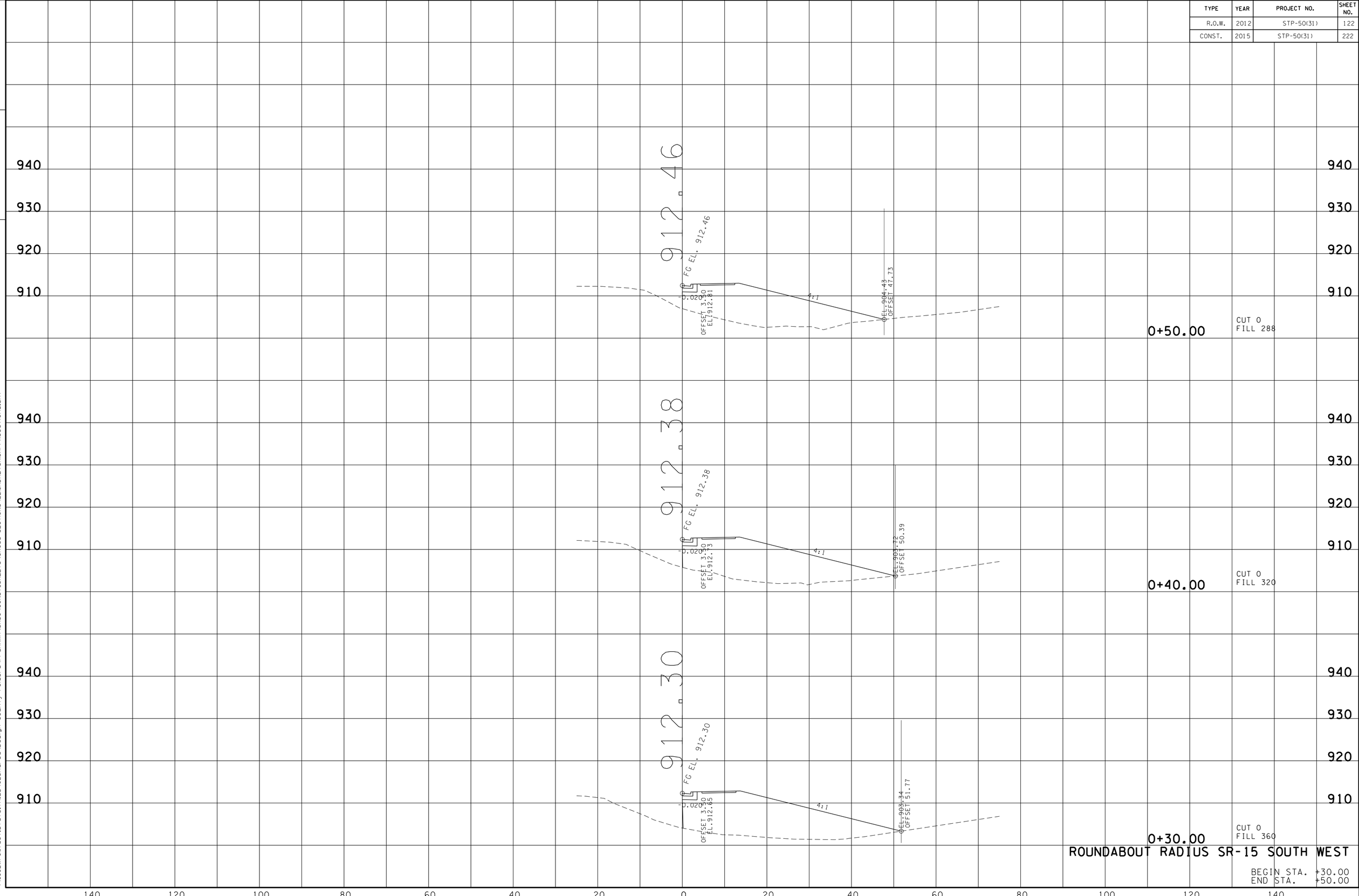
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	122
CONST.	2015	STP-50(31)	222



ROUNDABOUT RADIUS SR-15 SOUTH WEST

BEGIN STA. +30.00
END STA. +50.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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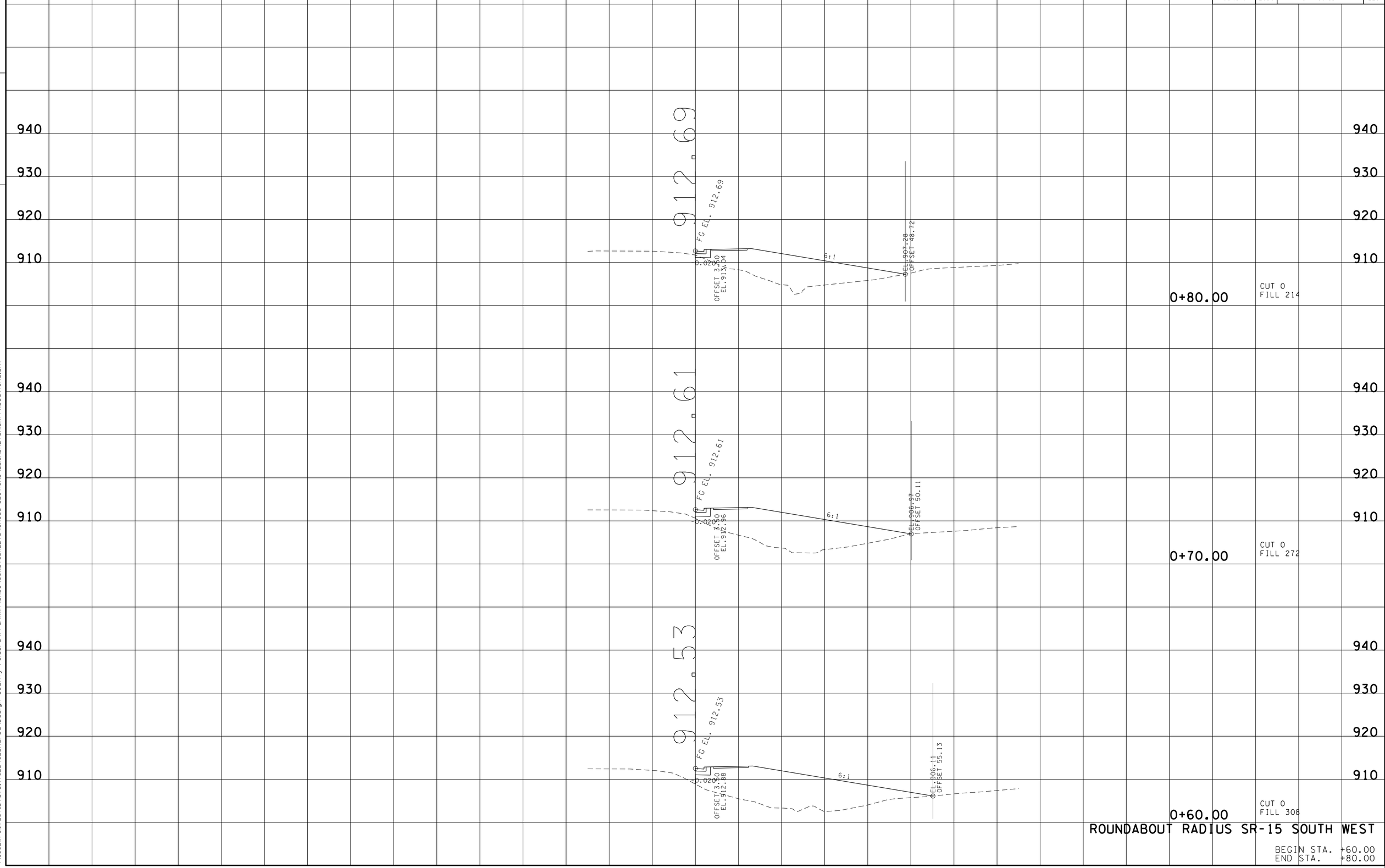
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	123
CONST.	2015	STP-50(31)	223



ROUNDABOUT RADIUS SR-15 SOUTH WEST

BEGIN STA. +60.00
END STA. +80.00

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

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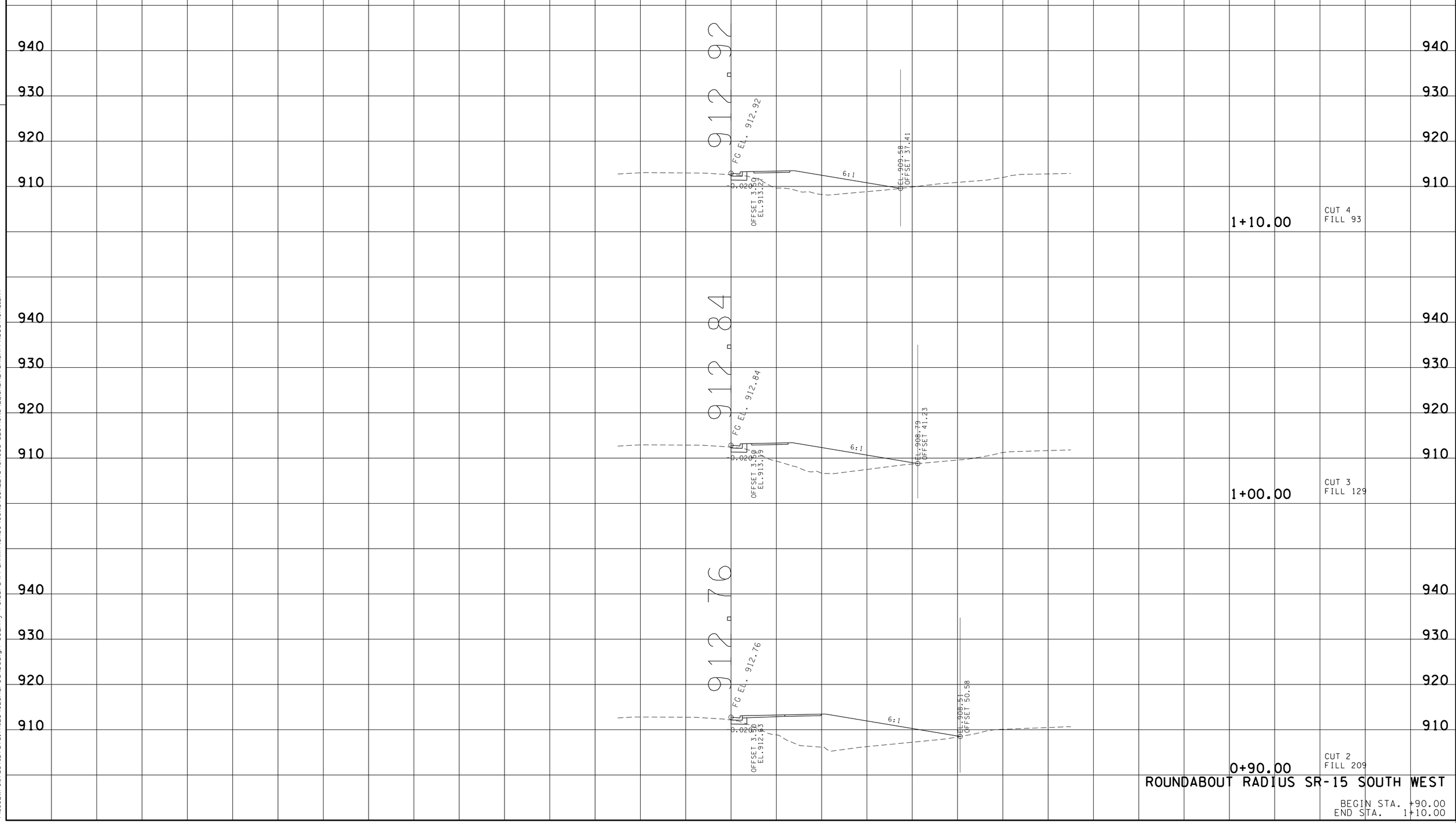
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	124
CONST.	2015	STP-50(31)	224

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



ROUNDABOUT RADIUS SR-15 SOUTH WEST

BEGIN STA. +90.00
END STA. 1+10.00

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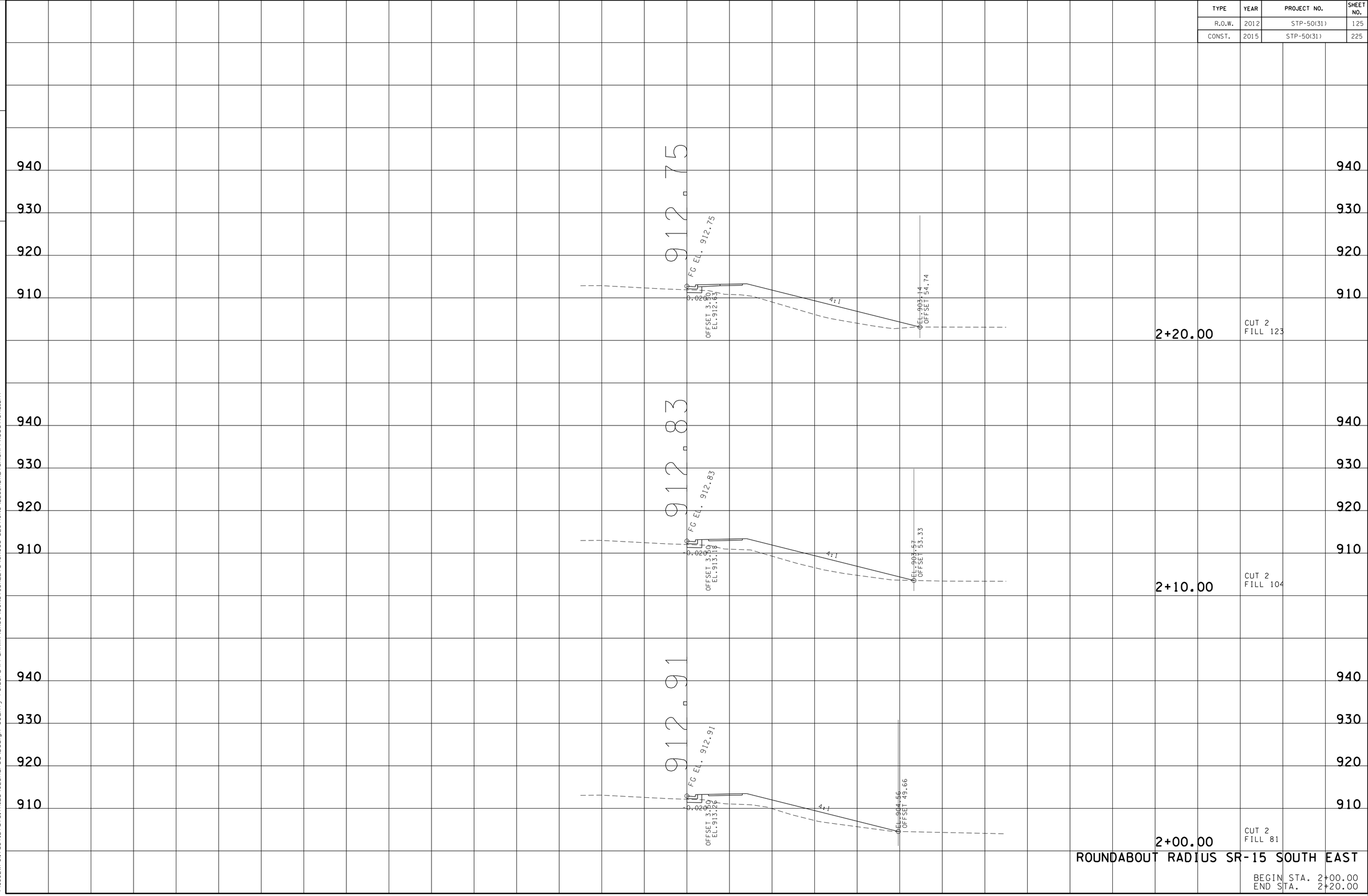
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	125
CONST.	2015	STP-50(31)	225



ROUNDABOUT RADIUS SR-15 SOUTH EAST

BEGIN STA. 2+00.00
END STA. 2+20.00

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FILE NO.

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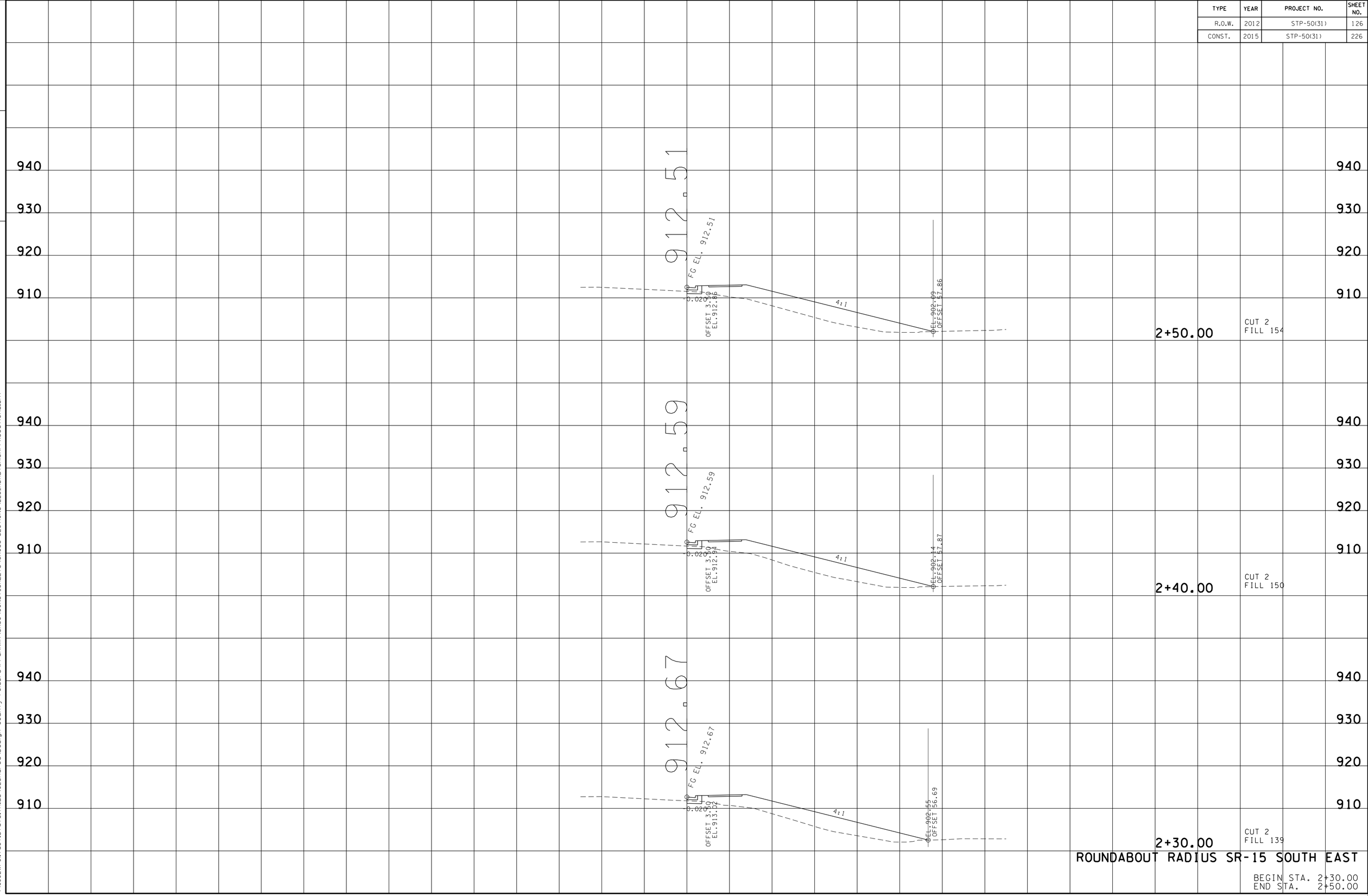
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	126
CONST.	2015	STP-50(31)	226



ROUNDABOUT RADIUS SR-15 SOUTH EAST

BEGIN STA. 2+30.00
END STA. 2+50.00

TENNESSEE D.O.T.
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FILE NO.

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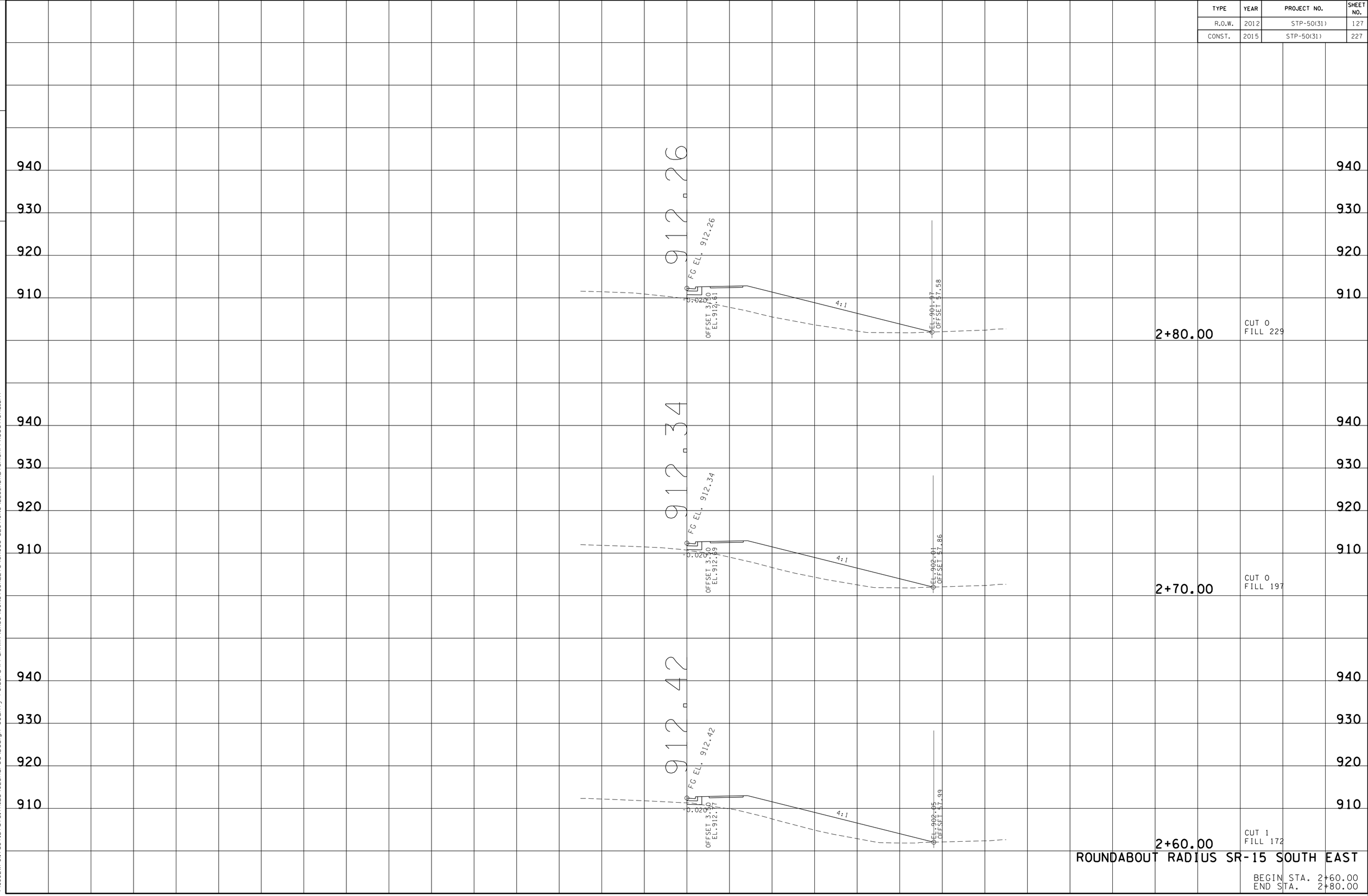
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	127
CONST.	2015	STP-50(31)	227



ROUNDABOUT RADIUS SR-15 SOUTH EAST

BEGIN STA. 2+60.00
END STA. 2+80.00

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DESIGN DIVISION

FILE NO.

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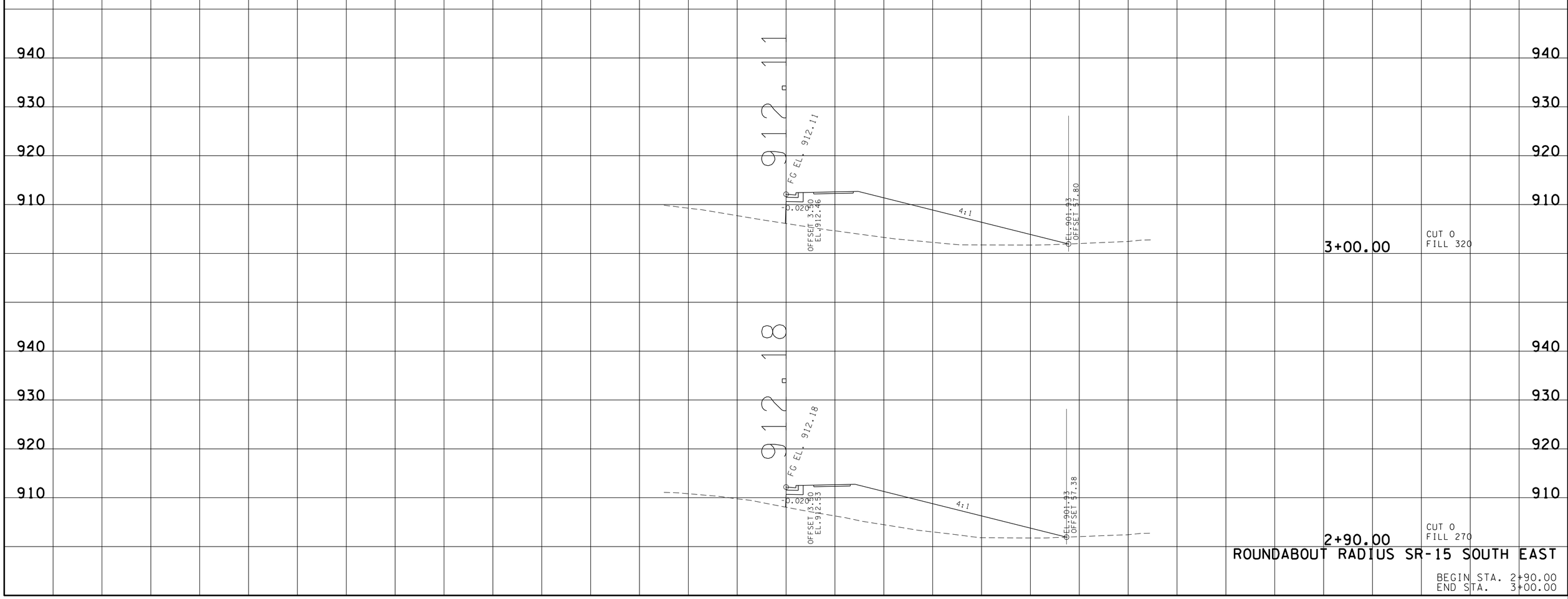
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	128
CONST.	2015	STP-50(31)	228



ROUNDABOUT RADIUS SR-15 SOUTH EAST

BEGIN STA. 2+90.00
END STA. 3+00.00

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FILE NO.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	129
CONST.	2015	STP-50(31)	229

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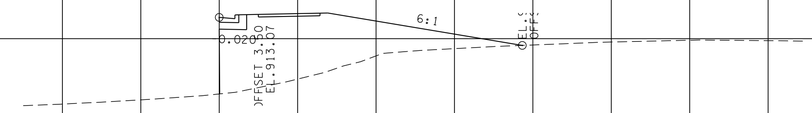
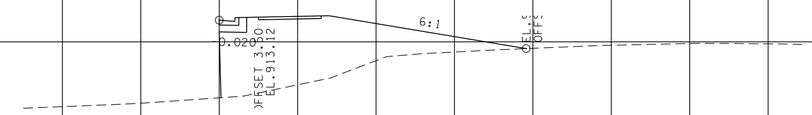
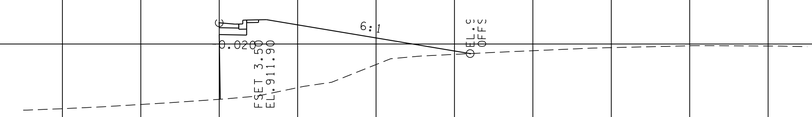
FILE NO.



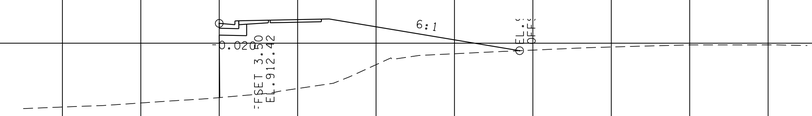
1+70.00 CUT 0 FILL 189



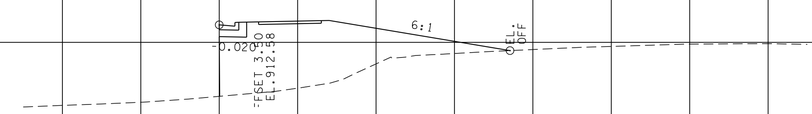
1+60.00 CUT 0 FILL 198



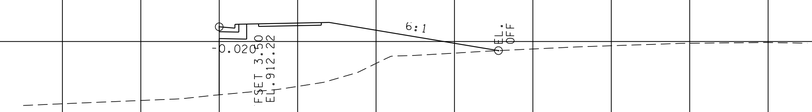
1+50.00 CUT 0 FILL 163



1+40.00 CUT 0 FILL 195



1+30.00 CUT 0 FILL 185



1+20.00 CUT 0 FILL 171

ROUNDABOUT RADIUS SR-16 NORTH EAST

BEGIN STA. 1+20.00
END STA. 1+70.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

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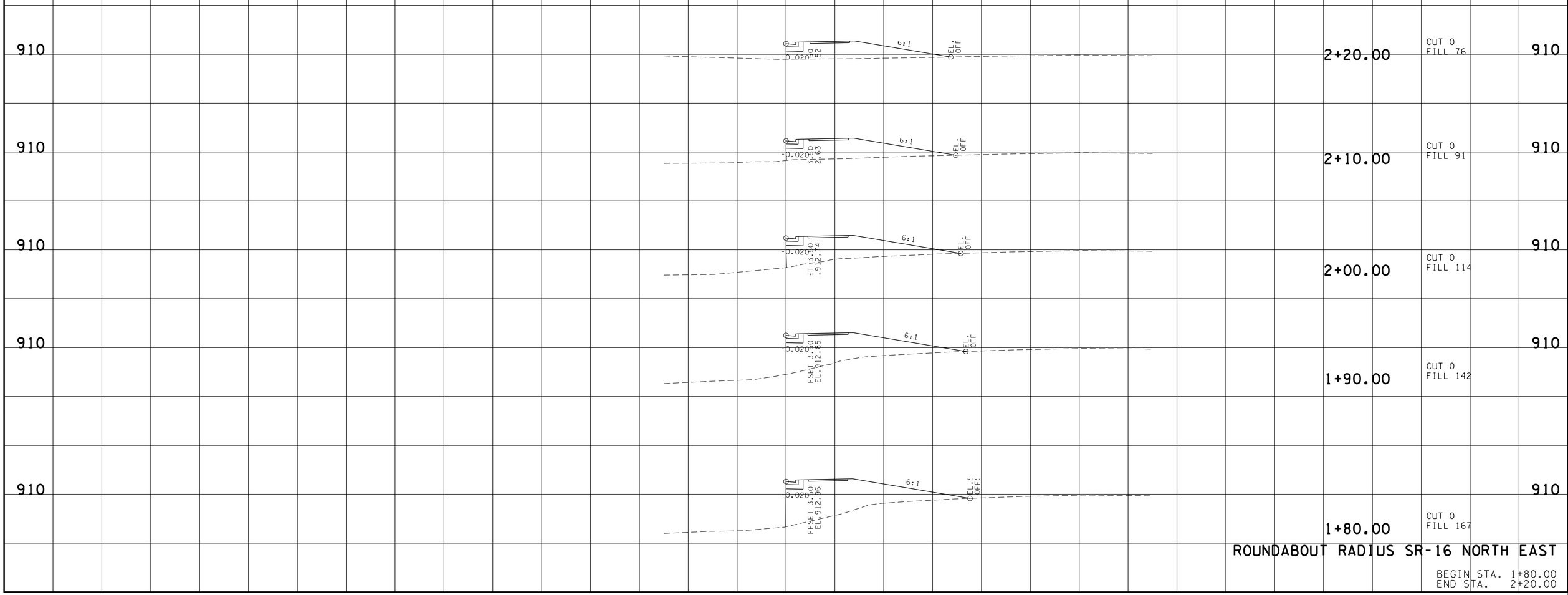
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	130
CONST.	2015	STP-50(31)	230



ROUNDABOUT RADIUS SR-16 NORTH EAST

BEGIN STA. 1+80.00
END STA. 2+20.00

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FILE NO.

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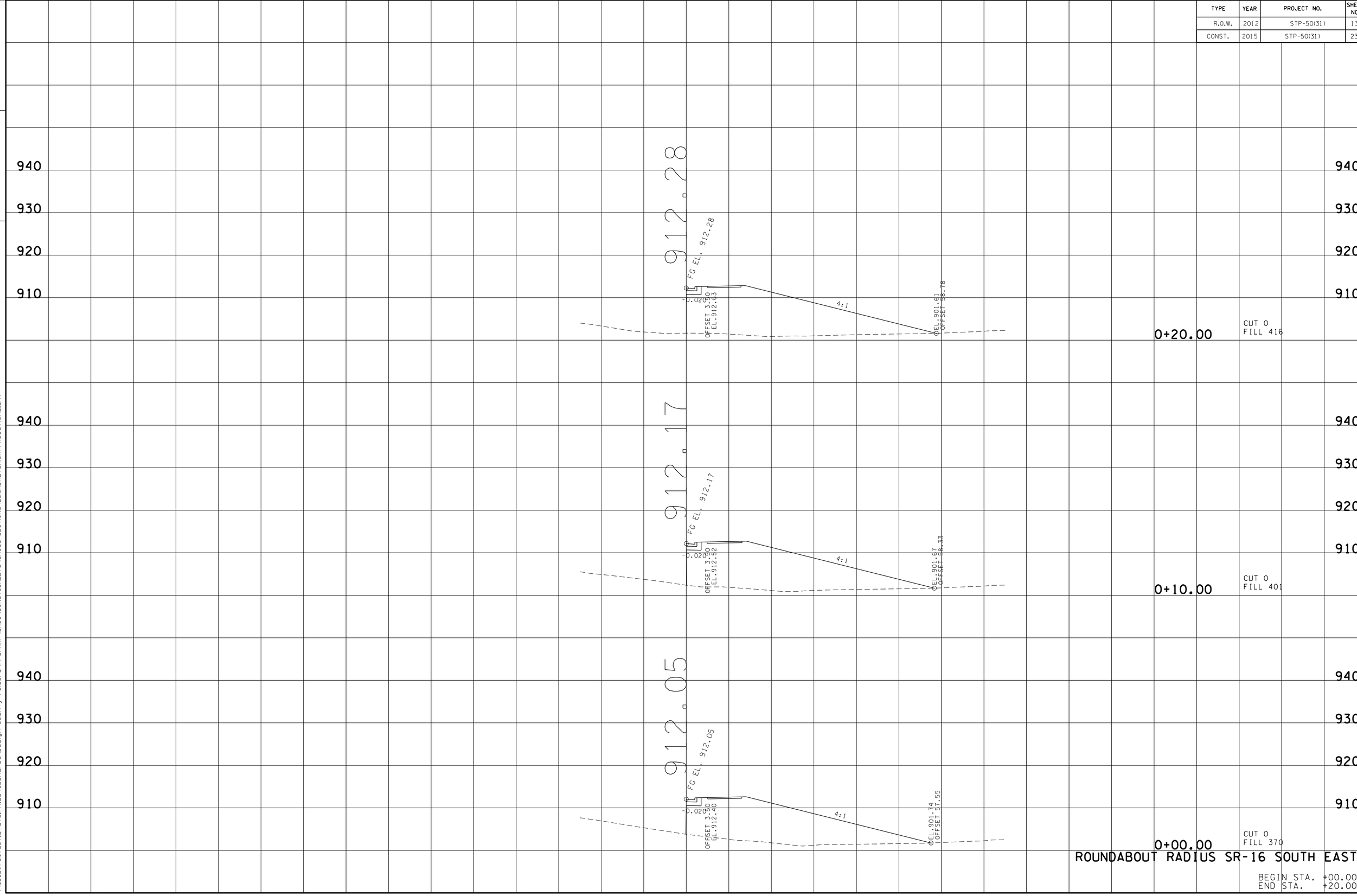
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	131
CONST.	2015	STP-50(31)	231



ROUNDABOUT RADIUS SR-16 SOUTH EAST

BEGIN STA. +00.00
END STA. +20.00

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FILE NO.

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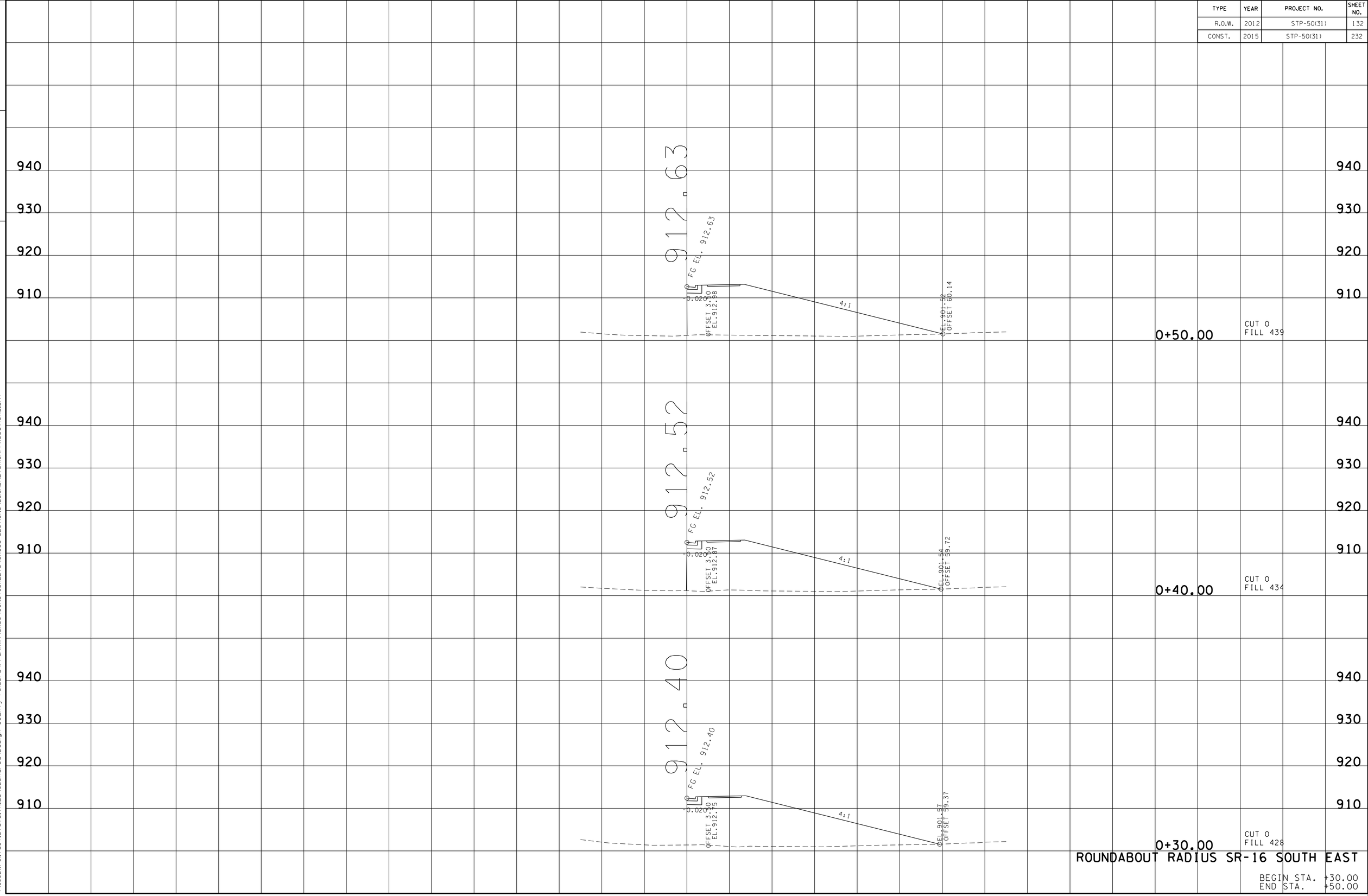
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	132
CONST.	2015	STP-50(31)	232



ROUNDABOUT RADIUS SR-16 SOUTH EAST

BEGIN STA. +30.00
END STA. +50.00

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FILE NO.

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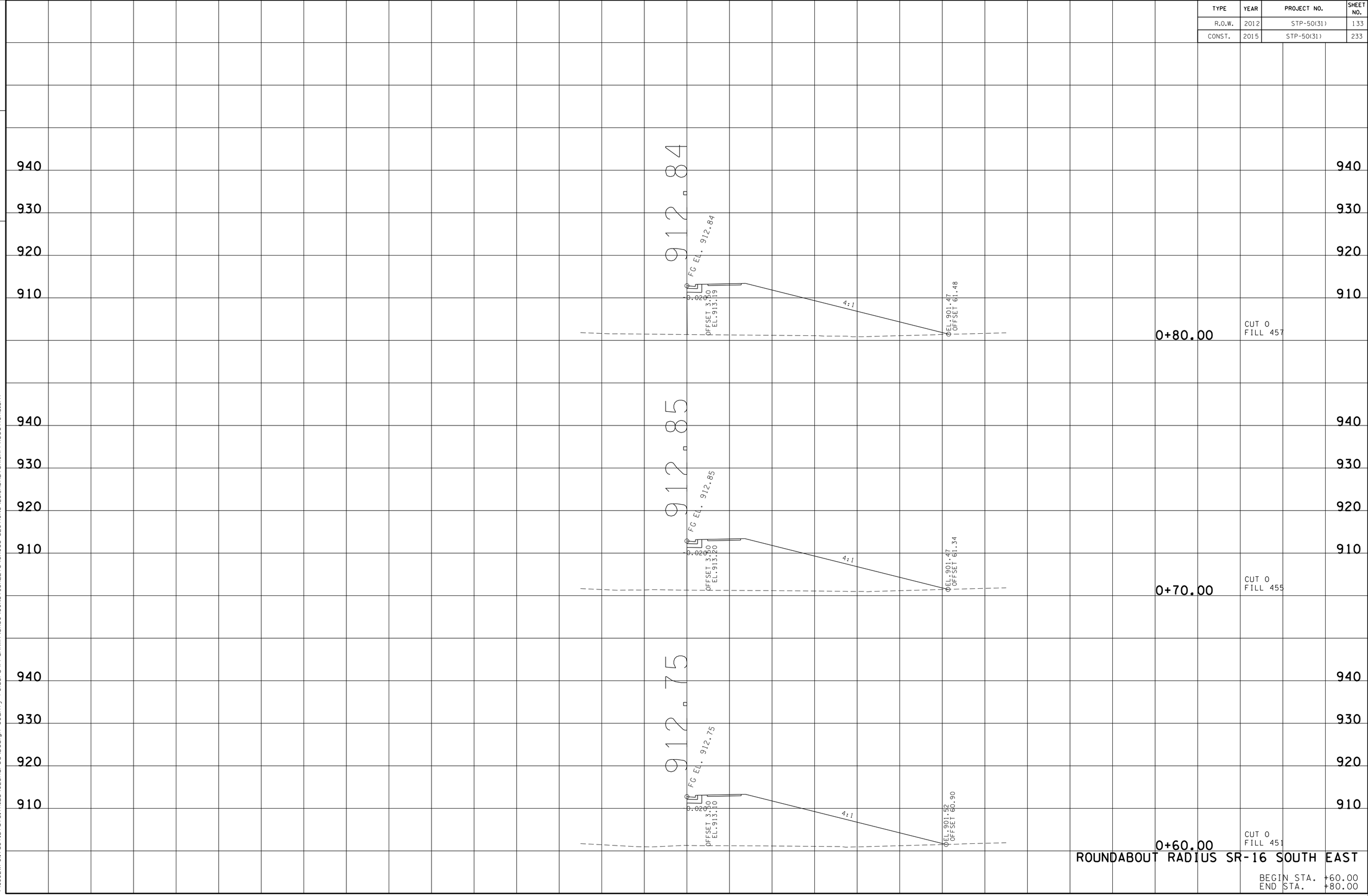
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	133
CONST.	2015	STP-50(31)	233



ROUNDABOUT RADIUS SR-16 SOUTH EAST

BEGIN STA. +60.00
END STA. +80.00

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FILE NO.

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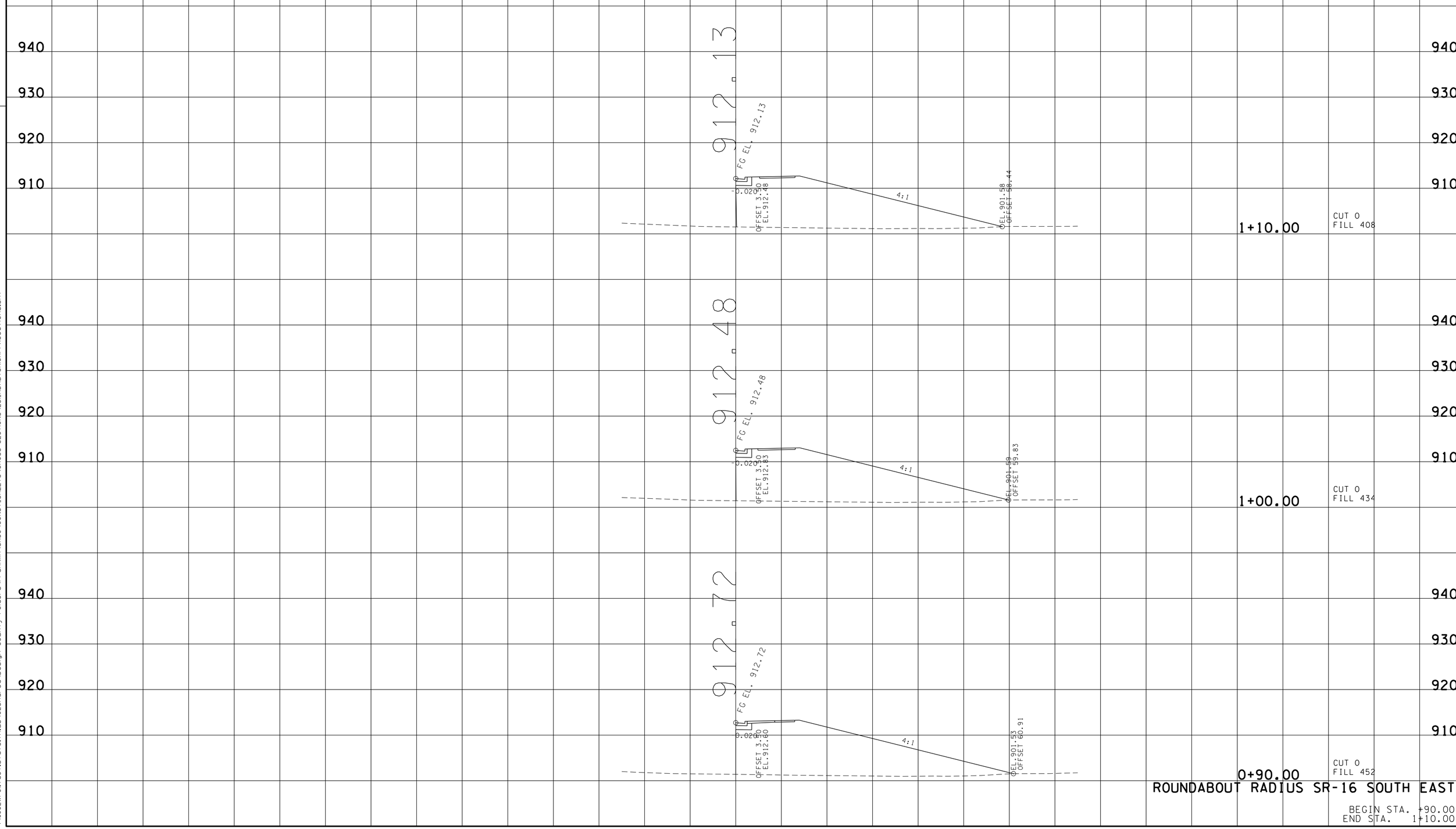
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	134
CONST.	2015	STP-50(31)	234

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



ROUNDABOUT RADIUS SR-16 SOUTH EAST

BEGIN STA. +90.00
END STA. 1+10.00

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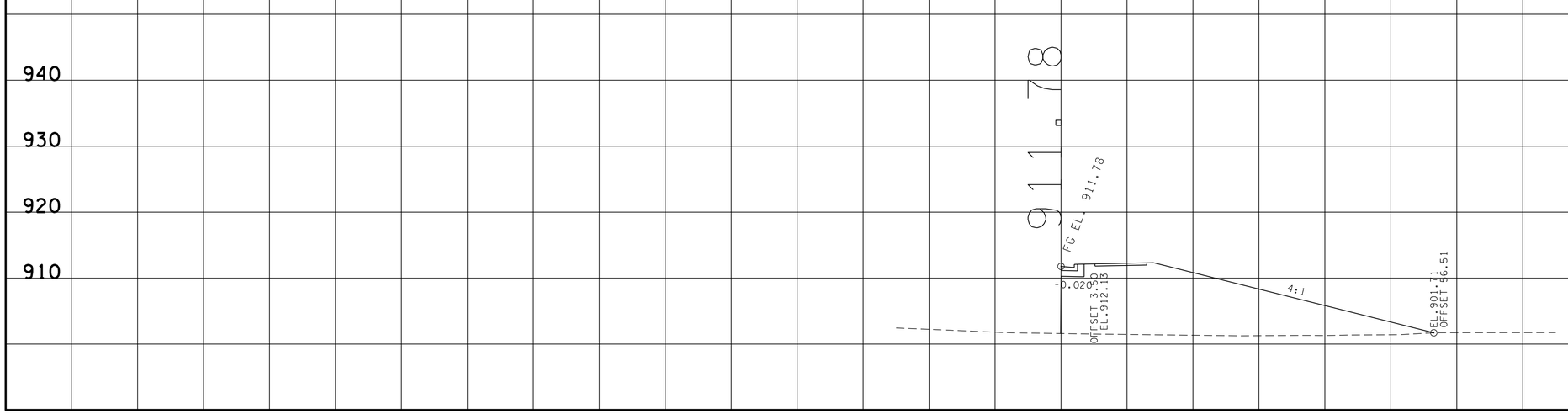
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	135
CONST.	2015	STP-50(31)	235

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



1+20.00

CUT 0
FILL 382

ROUNDABOUT RADIUS SR-16 SOUTH EAST

BEGIN STA. 1+20.00
END STA. 1+20.00

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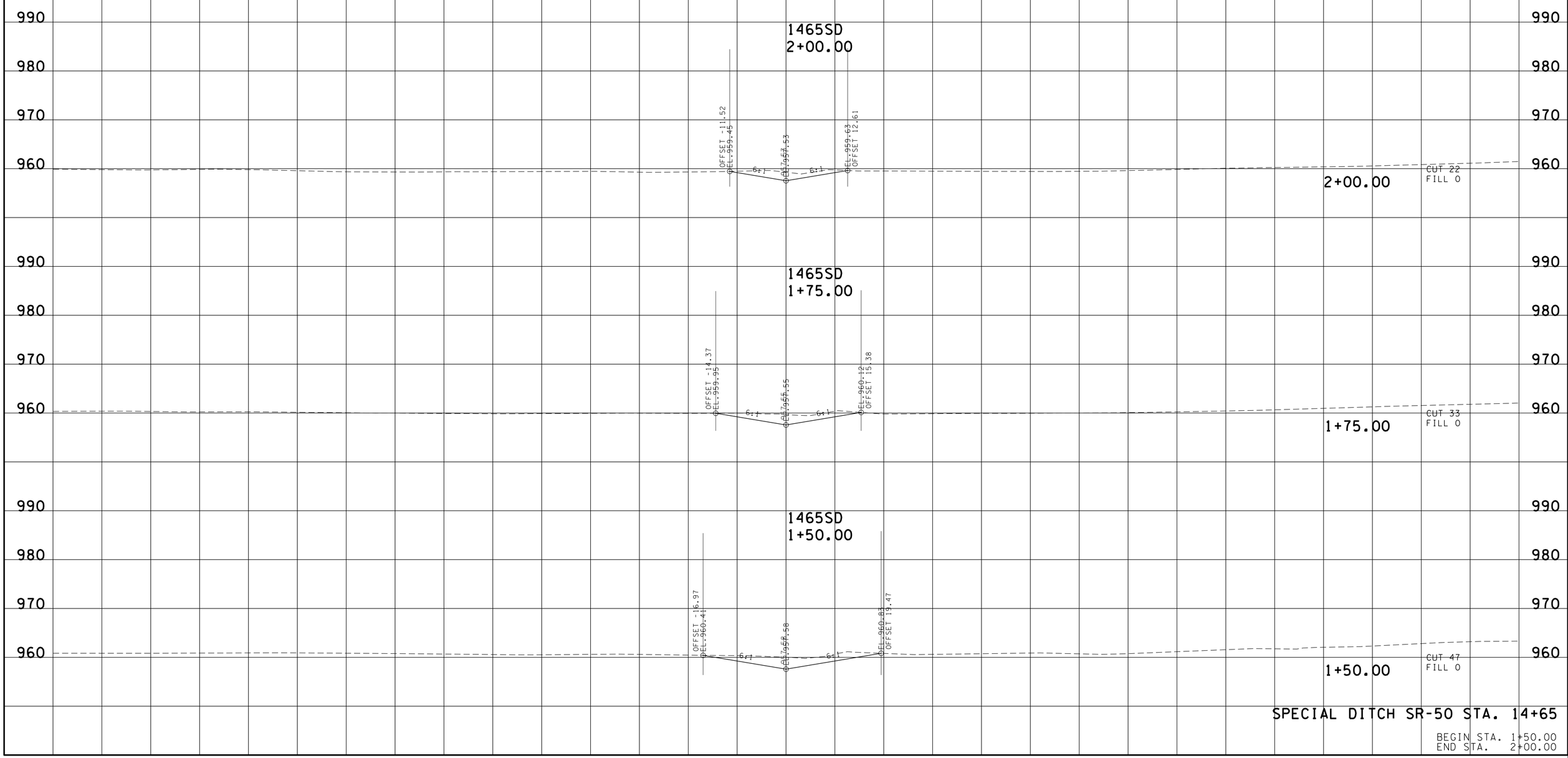
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	136
CONST.	2015	STP-50(31)	236

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SPECIAL DITCH SR-50 STA. 14+65

BEGIN STA. 1+50.00
END STA. 2+00.00

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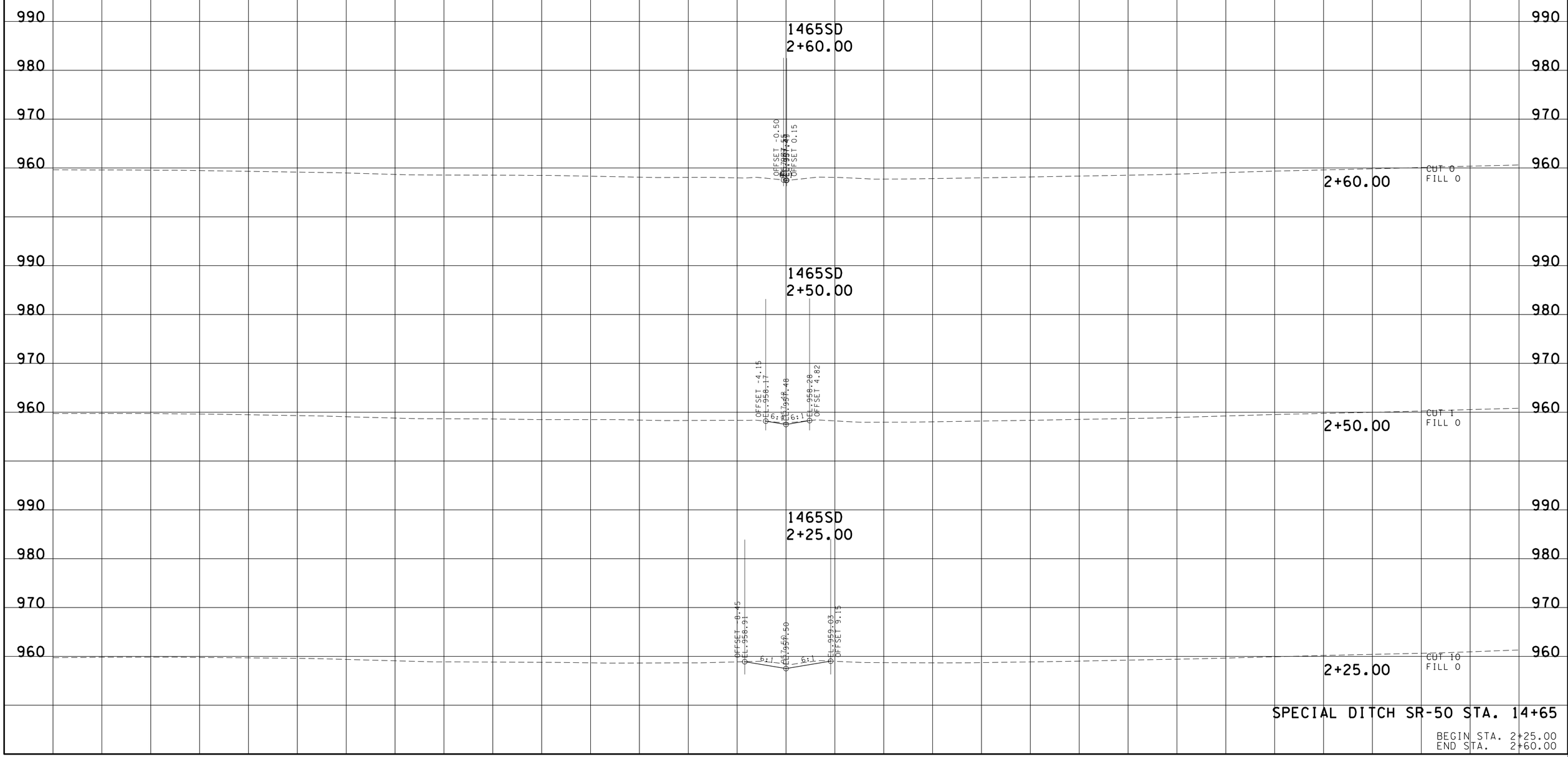
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	137
CONST.	2015	STP-50(31)	237

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SPECIAL DITCH SR-50 STA. 14+65

BEGIN STA. 2+25.00
END STA. 2+60.00

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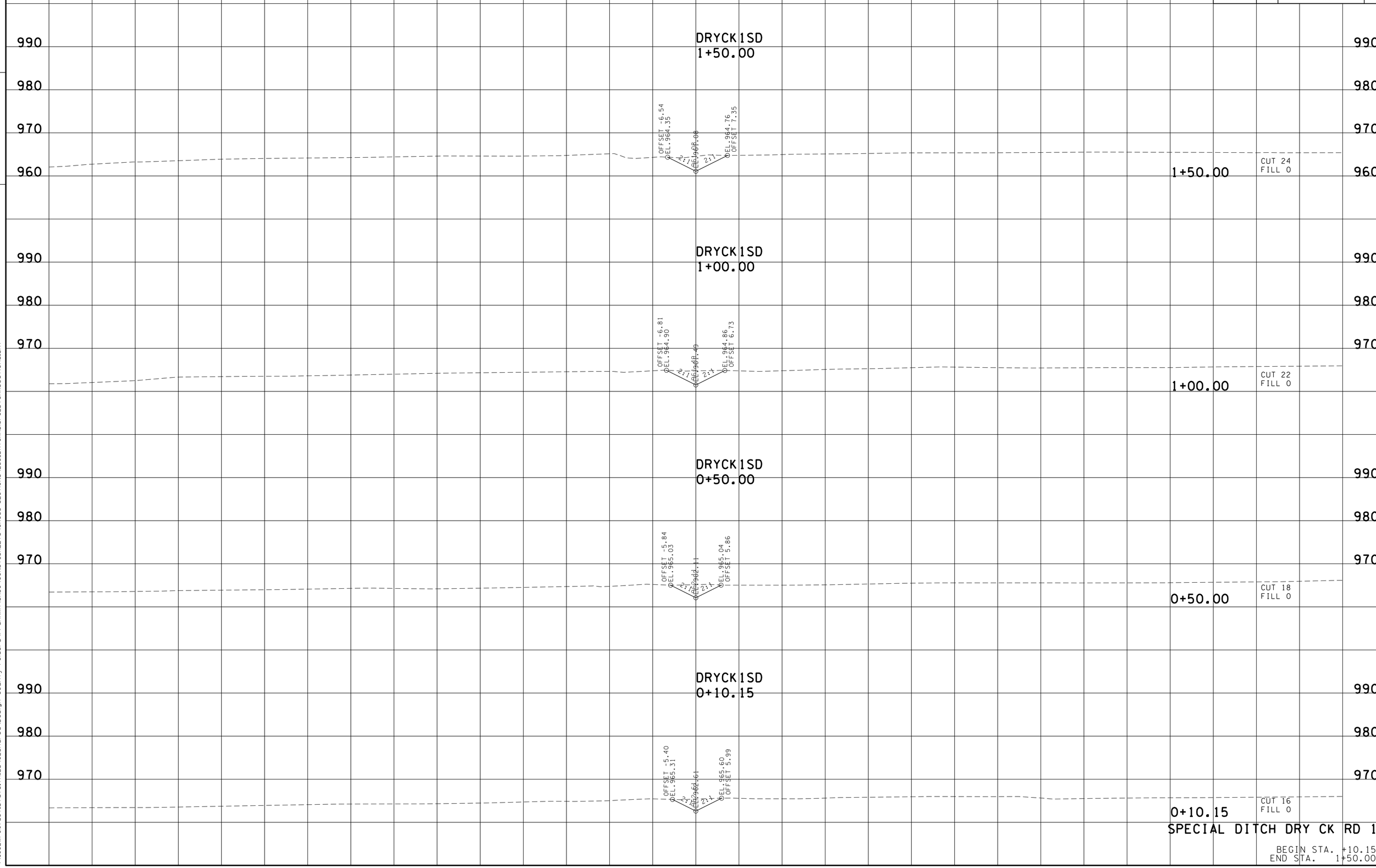
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	138
CONST.	2015	STP-50(31)	238

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



SPECIAL DITCH DRY CK RD 1

BEGIN STA. +10.15
END STA. 1+50.00

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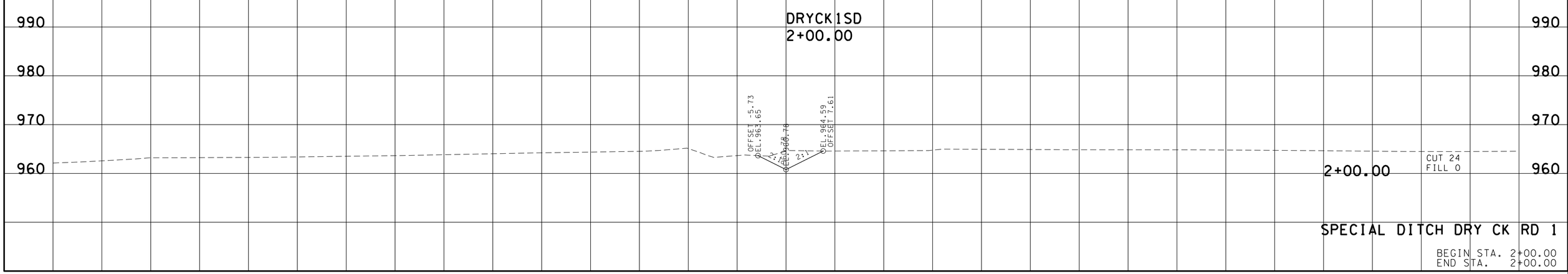
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	139
CONST.	2015	STP-50(31)	239

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SPECIAL DITCH DRY CK RD 1

BEGIN STA. 2+00.00
END STA. 2+00.00

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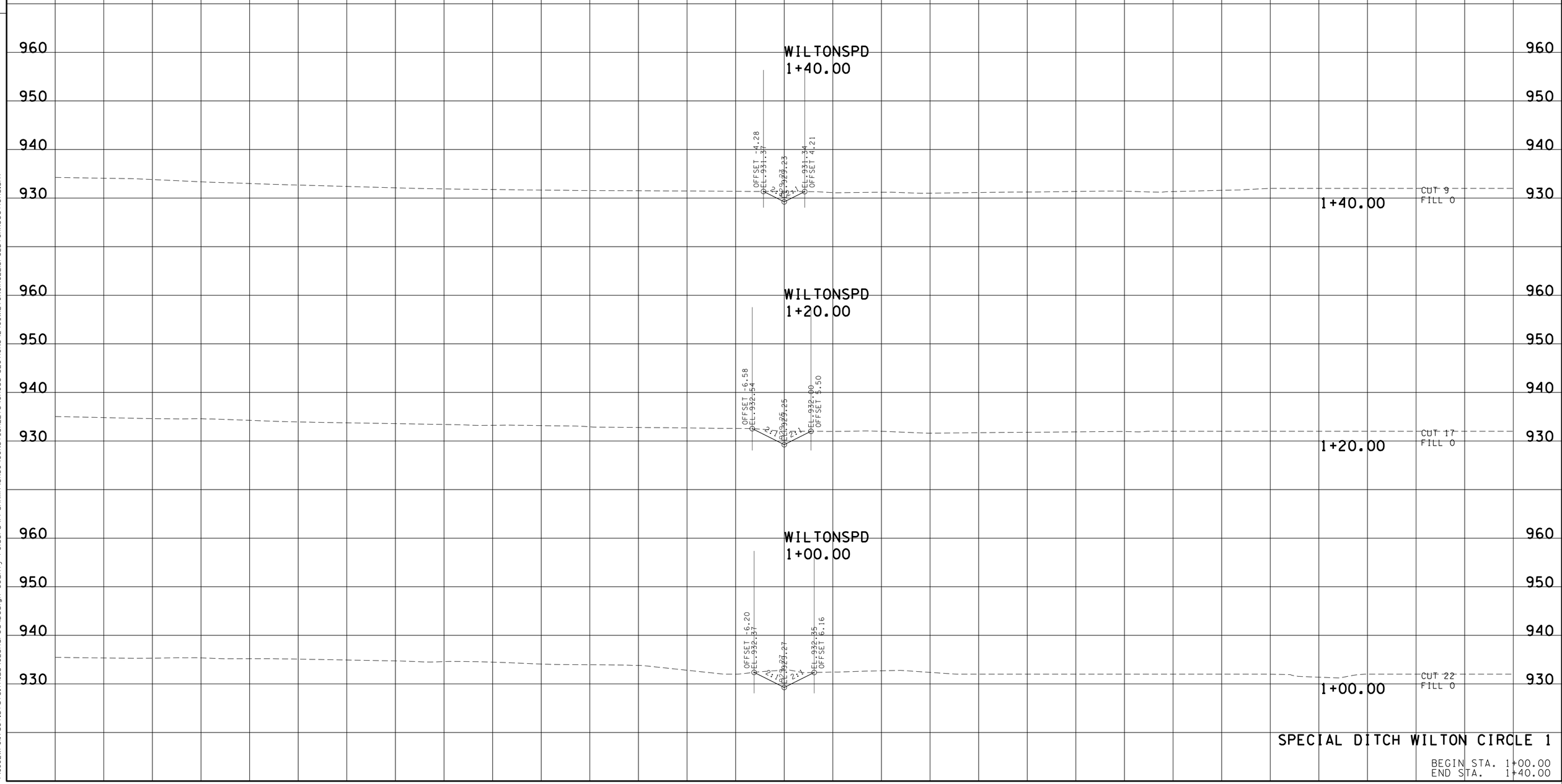
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	140
CONST.	2015	STP-50(31)	240

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SPECIAL DITCH WILTON CIRCLE 1

BEGIN STA. 1+00.00
END STA. 1+40.00

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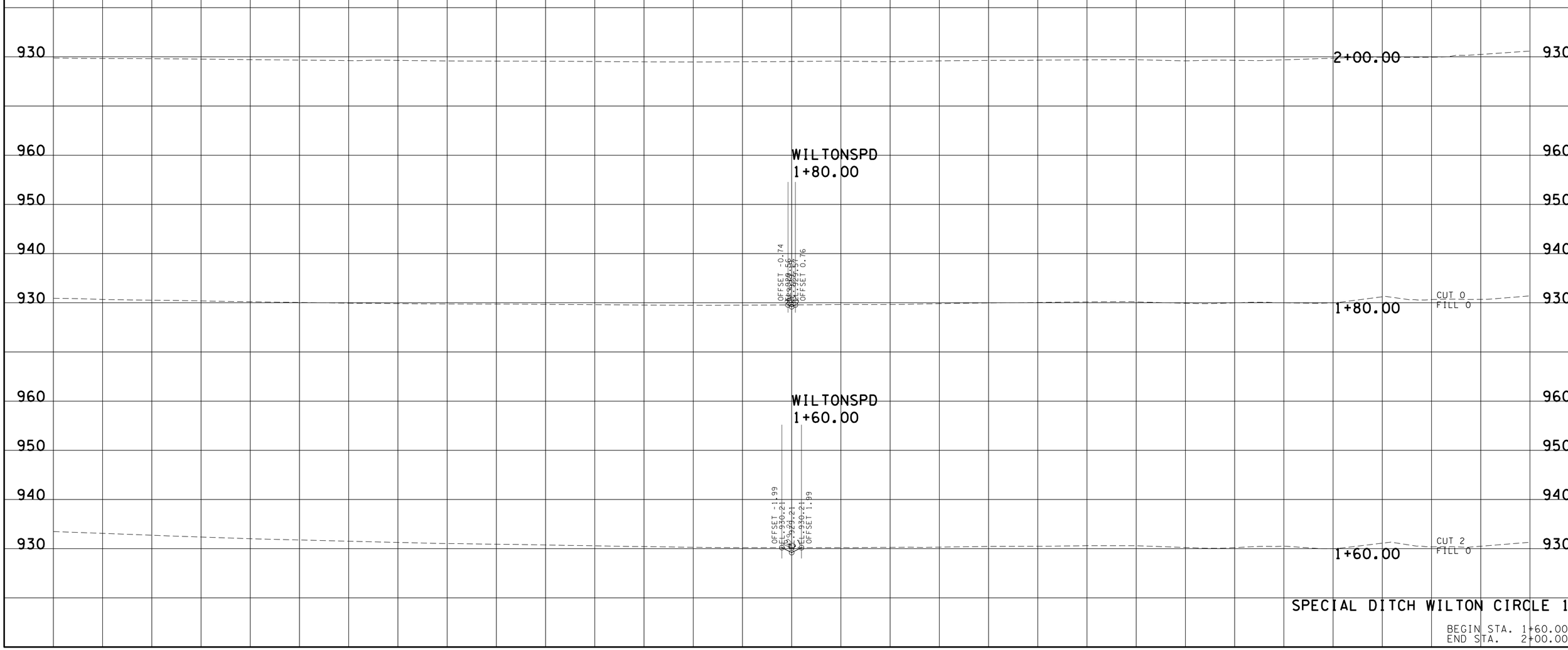
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	141
CONST.	2015	STP-50(31)	241

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



SPECIAL DITCH WILTON CIRCLE 1

BEGIN STA. 1+60.00
END STA. 2+00.00

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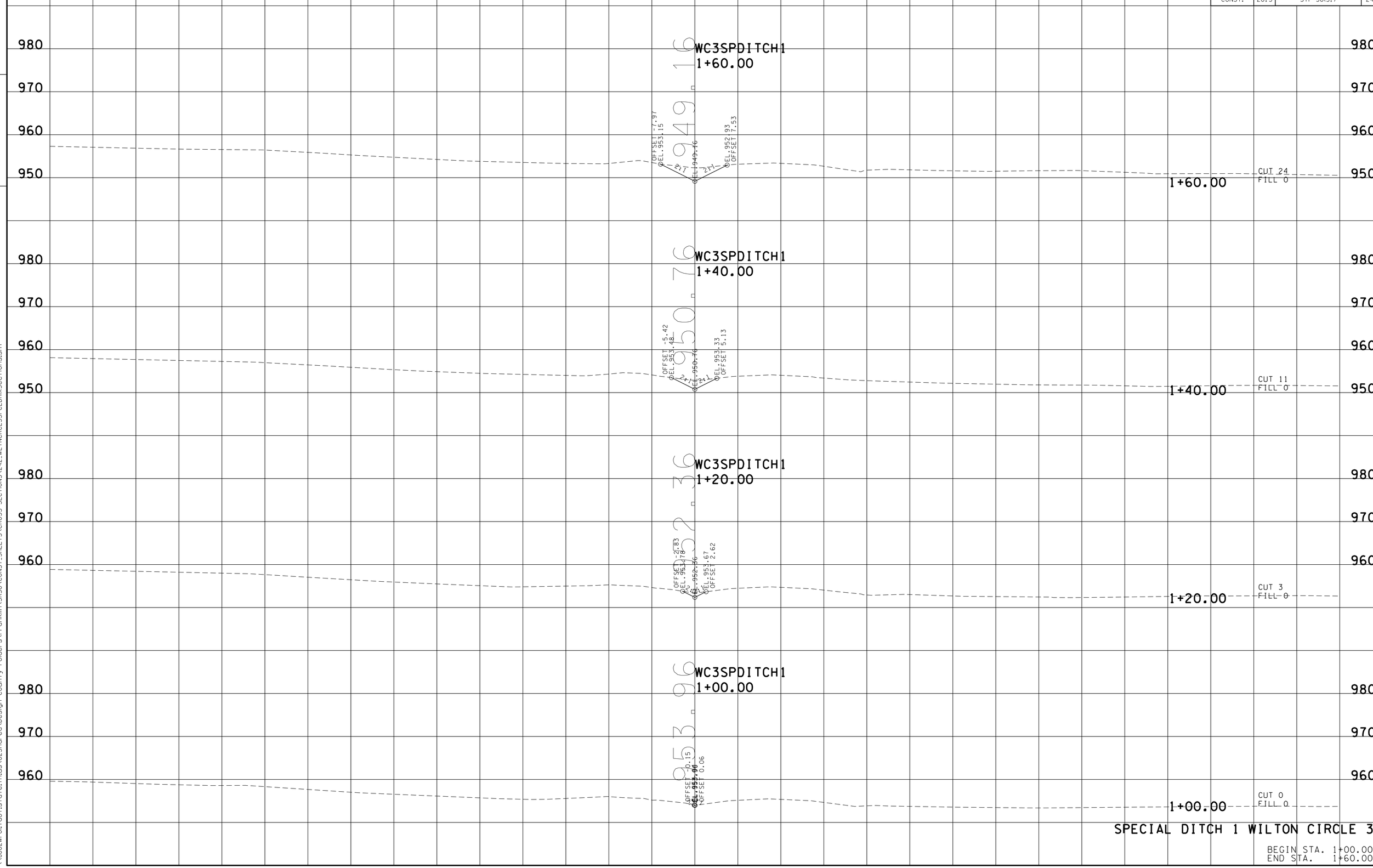
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	142
CONST.	2015	STP-50(31)	242



SPECIAL DITCH 1 WILTON CIRCLE 3

BEGIN STA. 1+00.00
END STA. 1+60.00

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FILE NO.

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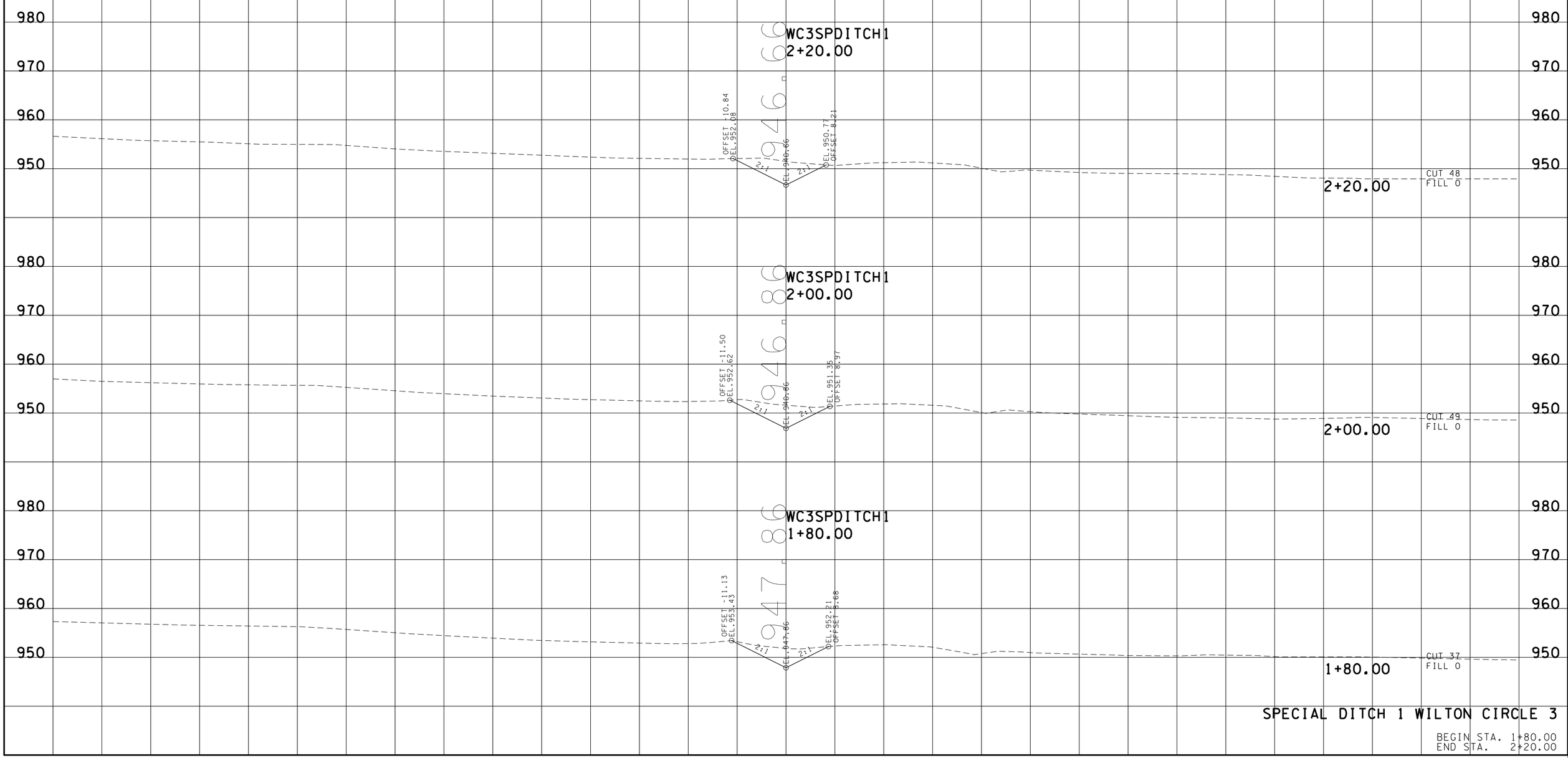
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	143
CONST.	2015	STP-50(31)	243

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



SPECIAL DITCH 1 WILTON CIRCLE 3

BEGIN STA. 1+80.00
END STA. 2+20.00

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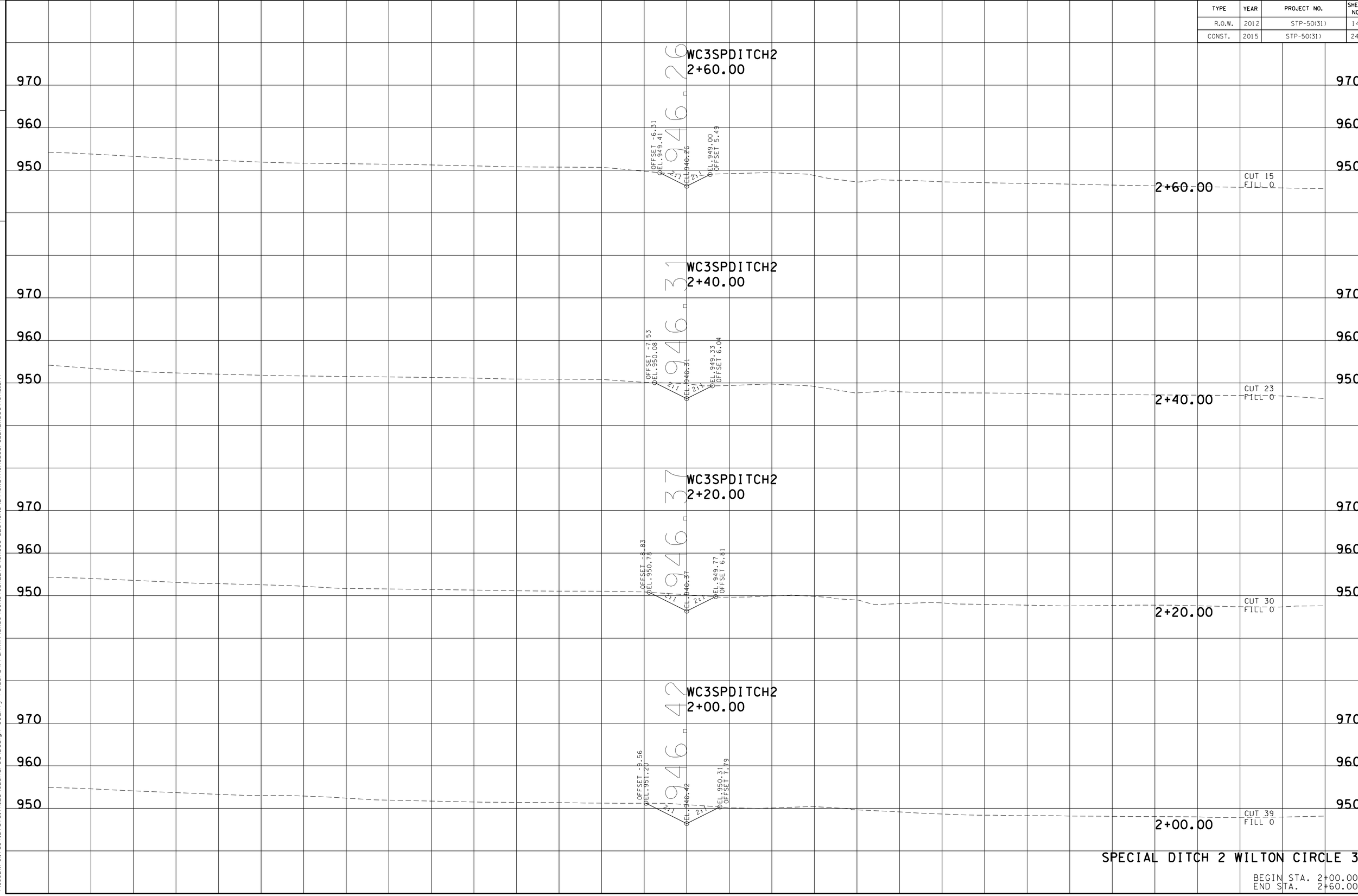
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	144
CONST.	2015	STP-50(31)	244



SPECIAL DITCH 2 WILTON CIRCLE 3

BEGIN STA. 2+00.00
END STA. 2+60.00

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FILE NO.

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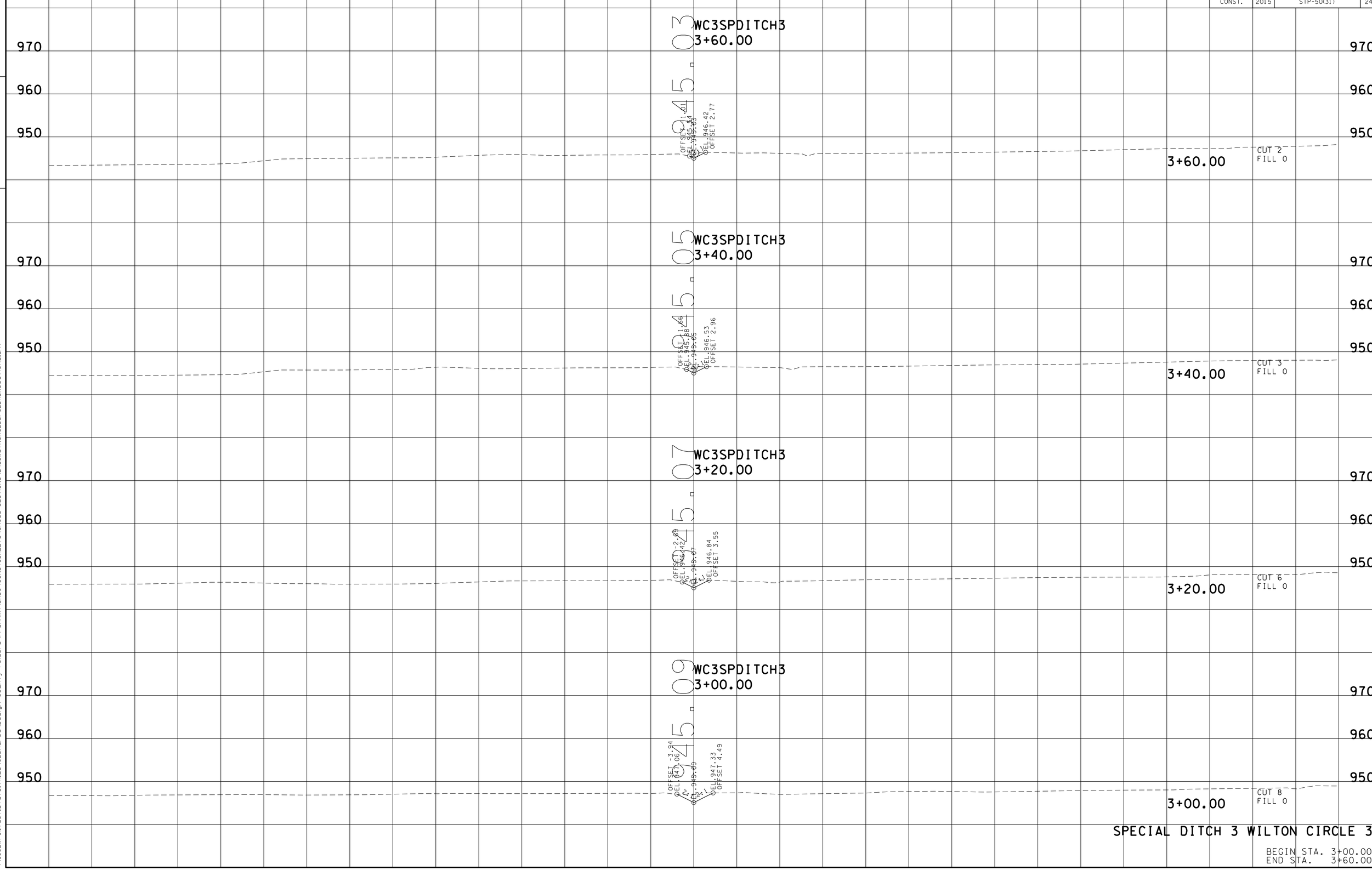
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	145
CONST.	2015	STP-50(31)	245



SPECIAL DITCH 3 WILTON CIRCLE 3

BEGIN STA. 3+00.00
END STA. 3+60.00

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FILE NO.

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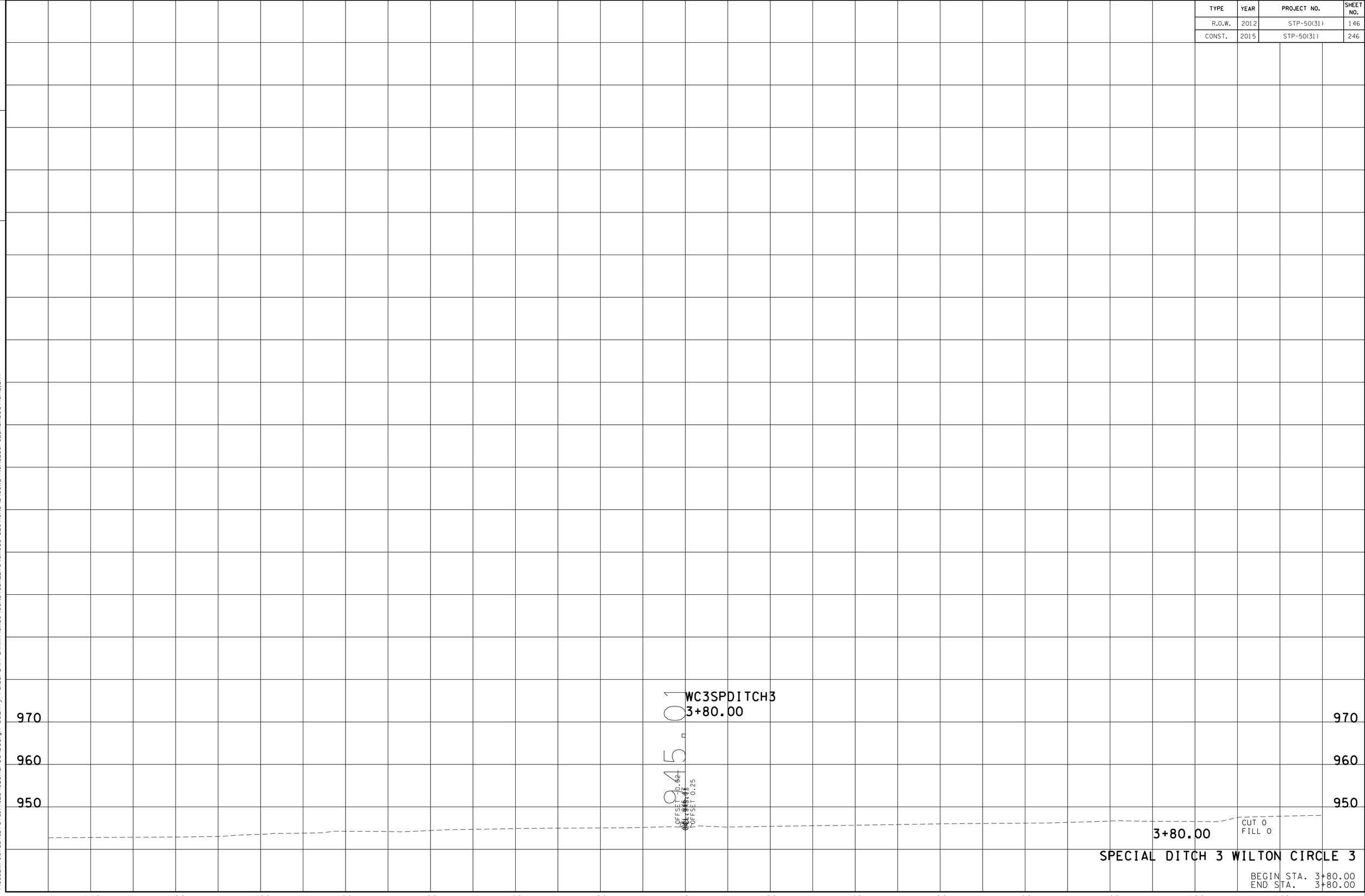
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-50(31)	146
CONST.	2015	STP-50(31)	246



SPECIAL DITCH 3 WILTON CIRCLE 3

BEGIN STA. 3+80.00
END STA. 3+80.00

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DESIGN DIVISION

FILE NO.

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