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

Index Of Sheets
(SEE SHEET NO. 1A)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

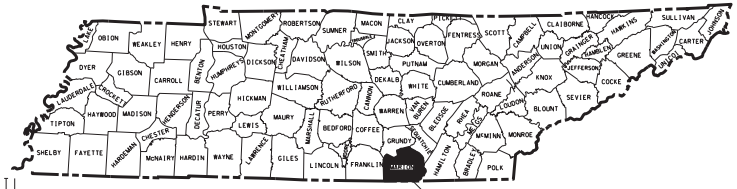
TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.	STP-150(4)	
STATE PROJ. NO.	58015-3215-14	

MARION COUNTY

STATE ROUTE 150

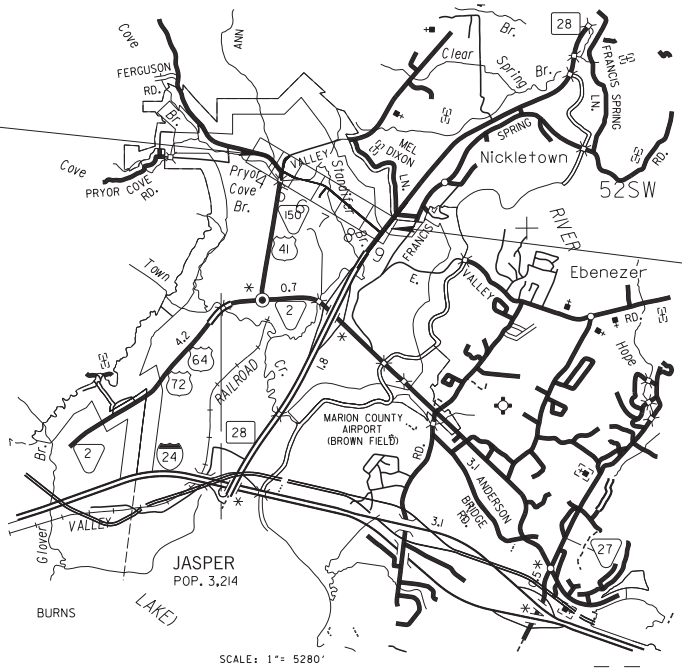
FROM EXISTING S.R. 150
TO S.R. 28 NORTH OF JASPER

GRADE, DRAIN, BASE, STRUCTURE, PAVING, & GUARDRAIL
STATE HIGHWAY NO. 150 F.A.H.S. NO. 41



MARION COUNTY
PROJ. NO. STP-150(4)

STP-150(4)
BEGIN PROJ. NO. 58015-3215-14
STA. 3+50 (CONST.)



N

NO EXCLUSIONS
NO EQUATIONS

STP-150(4)
END PROJ. NO. 58015-3215-14
STA. 74+55.61 (CONST.)

SCALE: 1"= 5280'

0 1 2 3 MILES

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

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

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

TDOT C.E. MANAGER 2 ROBERT RODGERS, P.E.

DESIGNER GREGORY J. TAYLOR, P.E. CHECKED BY DIANE T. EVITT

P.E. NO. 58015-1210-14

PIN NO. 103774.00

TRAFFIC DATA	
ADT (2015)	3640
ADT (2035)	4370
DHV (2035)	482
D	65 - 35
T (ADT)	6 %
T (DHV)	4 %
V	60 MPH
V (Curb/Gutter)	45 MPH

ROADWAY LENGTH 1.318 MILES
BRIDGE LENGTH 0.000 MILES
BOX BRIDGE LENGTH 0.028 MILES
PROJECT LENGTH 1.346 MILES

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

SURVEY DATE: APRIL 30, 2010

6-JUN-2015 07:30
\\JO2WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is 1t\001.titlesheet.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	1A

INDEX

DESCRIPTION	SHT.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD DRAWINGS INDEX (2 SHEETS)	1A-1B
ESTIMATED BRIDGE QUANTITIES AND BRIDGE INDEX	2
ESTIMATED ROADWAY QUANTITIES	2A
ESTIMATED SIGNAL QUANTITIES SHEET	2A1
ESTIMATED UTILITIES QUANTITIES	2B - 2B1
TYPICAL SECTIONS AND PAVING SCHEDULE (5 SHEETS)	2C - 2F1
GENERAL NOTES AND SPECIAL NOTES (4 SHEETS)	2G – 2G3
TABULATED QUANTITIES (4 SHEETS)	2H – 2L
PROPERTY MAPS AND RIGHT-OF-WAY ACQUISITION TABLES (3 SHEETS)	3, 3A - 3B
PRESENT LAYOUTS (8 SHEETS)	4 - 11
R.O.W. DETAIL (8 SHEETS)	4A – 11A
PROPOSED LAYOUTS (8 SHEETS)	4B – 11B
PROPOSED PROFILES (8 SHEETS)	4C – 11C
PRESENT LAYOUT – SCHOOL RAMP	7D
R.O.W. DETAIL – SCHOOL RAMP	7E
PROPOSED LAYOUT – SCHOOL RAMP	7F
PROPOSED PROFILE – SCHOOL RAMP	7G
PUBLIC SIDE ROAD PROFILE	11D
PRIVATE DRIVE AND FIELD RAMP PROFILES (2 SHEETS)	12 - 13
DRAINAGE MAPS (4 SHEETS)	14 – 16A
CULVERT SECTIONS (13 SHEETS)	17 – 21H
EPSC PLANS (15 SHEETS)	22 – 22U, 22F1, 22M1
EXISTING CONTOURS (8 SHEETS)	23 – 23G
PROPOSED CONTOURS (8 SHEETS)	24 – 24G
TRAFFIC CONTROL PLANS WITH CONSTRUCTION (10 SHEETS)	25 – 25J
SIGNING AND PAVEMENT MARKING PLANS (5 SHEETS)	26 – 26G
SIGN SCHEDULE (3 SHEETS)	26H – 26K
SIGNAL LAYOUTS (2 SHEETS)	27 - 27A
SOILS SHEETS	28 – 28Q
ROADWAY CROSS SECTIONS (50 SHEETS)	30 - 79
SIDE ROAD CROSS SECTIONS (20 SHEETS)	80 - 99
UTILITIES INDEX, UTILITY OWNERS, AND UTILITY SHEETS	U1-1 – U7-xx
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)	S-1 --- S-X

(PLEASE NOTE THAT LETTERS I & O AND SHEET NO. 29 ARE NOT USED TO LABEL SHEETS)

NO PROJECT COMMITMENTS SHEET INCLUDED IN THIS SET OF PLANS.

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
		STANDARD BRIDGE DRAWINGS
DWG. NO.	REV.	DESCRIPTION
		BRIDGE APPURTENANCES ENGLISH (BOX CULVERTS)
STD-15-1	11-06-08	INDEX OF DRAWINGS AND TERMINOLOGY
STD-15-2	3-28-08	GENERAL NOTES
STD-15-3	2-28-03	DESIGN SECTION LIMITS
STD-15-4	12-07-01	TYPICAL SECTION AND DETAILS
STD-15-5	2-28-03	TYPICAL ELEVATION
STD-15-6	3-28-08	CURB AND RAIL DETAILS - SKEW NOT LESS THAN 45 DEG.
STD-15-7	3-02-02	STANDARD EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' - 8"
STD-15-8	12-07-01	INTERIOR WALL END TREATMENTS
STD-15-9	2-28-03	TYPICAL WINGWALL DETAILS AND NOTES
STD-15-10	11-06-08	WINGWALL DIMENSIONS AND QUANTITIES
STD-15-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-15-13		WINGWALL DESIGN SECTION
STD-15-14	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-15-15		BACKFILL AND DRAINAGE DETAILS0
STD-15-16A		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-15-17		DEBRIS DEFLECTION WALL
STD-15-18		DEBRIS DEFLECTION WALL
STD-15-24	12-07-01	END SECTION DETAILS
STD-15-25	11-01-10	PRECAST BOX CULVERT DETAILS
STD-15-26		PRECAST BOX CULVERT DETAILS
STD-15-27		PRECAST BOX CULVERT DETAILS
STD-15-28		PRECAST BOX CULVERT DETAILS
STD-15-29		PRECAST BOX CULVERT DETAILS
STD-15-37	05-01-14	BOX BRIDGE, 1 BARREL AT 8', CLEAR HTS. 5' - 8', 0 - 60' FILL
STD-15-38	9-19-06	BOX BRIDGE, 1 BARREL AT 10', CLEAR HTS. 4' - 6, 0 - 60' FILL
STD-15-69		BOX BRIDGE, 3 BARRELS AT 16', CLEAR HTS. 9' - 13', 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-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-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-TS-6	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER
RD01-TS-7	10-15-02	DESIGN STANDARDS 2-LANE HIGHWAY WITH CONTINUOUS 2 WAY LEFT TURN LANE
RD01-TS-7A	10-15-02	DESIGN STANDARDS 2-LANE CURB & GUTTER WITH CONTINUOUS 2-WAY LEFT-TURN LANE
		DRAINAGE - CULVERTS AND ENDWALL
D-FLU-1		FLUME DETAILS
D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PB-2	01-29-14	STANDARD DETAILS FOR PLASTIC PIPE INSTALLATION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL (2:1 SLOPE, 36" TO 78")
D-PE-4	12-01-14	STRAIGHT, "L" AND "U" TYPE CONCRETE ENDWALL
D-PE-18A		18" CONCRETE ENDWALL CROSS DRAIN
D-PE-18B		18" CONCRETE ENDWALL CROSS DRAIN

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

17-JUN-2015 13:32
\\J02WF01\dot\stots.fnus\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\001A.std dwg index.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	1B

STANDARD ROADWAY DRAWINGS

DRAINAGE - CULVERTS AND ENDWALL (CONTINUE)

D-PE-24B		24" CONCRETE ENDWALL CROSS DRAIN
D-PE-30A	01-06-15	30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-30B		30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-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

DRAINAGE-CATCH BASINS AND MANHOLES

D-CB-38RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 38 CATCH BASIN
D-CB-38S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SE	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 38 CATCH BASIN

ROADWAY AND PAVEMENT APPURTENANCES

RP-H-4	06-04-13	PERPENDICULAR CURB RAMP
RP-H-7	06-04-13	PERPENDICULAR CURB RAMP TYPE 1
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-S-7	06-04-13	DETAILS FOR STANDARD CONCRETE SIDEWALKS

SAFETY APPURTENANCES AND FENCE

S F 1	05 24 12	HIGH VISIBILITY FENCE
S-RP-2	01-10-99	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-PL-6		SAFETY PLAN SAFETY HARDWARE PLACEMENT
S-GR31-1		W-BEAM 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-GRT-2		TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRT-2R		EARTH PAD FOR TYPE 38 TERMINAL (RETROFIT)
S-GRA-1		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL
S-GRA-3		GUARDRAIL ANCHOR FOR TYPE 12, 13 AND IN-LINE TERMINALS
S-BPR-1		BIKE/PEDESTRIAN SAFETY RAIL
S-SSMB-6	10-24-13	GUARDRAIL ATTACHMENT TO SINGLE SLOPE CONCRETE BARRIER WALL

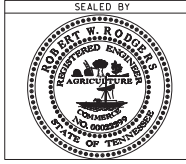
TRAFFIC CONTROL APPURTENANCES

T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-16	11-01-11	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-16	06-05-14	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	11-01-11	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-18	02-14-14	END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) & WORK ZONE SPEED SIGNS
T-S-19	07-19-13	STANDARD MEMBERS BENDAWAY SIGN SUPPORTS STEEL DESIGN
T-S-20	11-01-11	SIGN DETAILS
T-SG-2	07-29-04	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3	11-11-04	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-4		SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	12-04-13	CONTROLLER CABINET DETAILS
T-SG-7	11-01-11	SIGNAL HEAD ASSEMBLIES AND PEDESTRIAN PUSH BUTTON SIGNS
T-SG-7A	11-01-11	TYPICAL SIGNAL HEAD PLACEMENT
T-SG-8	12-04-13	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9A	12-04-13	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	12-04-13	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-12	11-01-11	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3D	04-01-08	ENHANCED SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-4A	08-01-12	ENCHANCED SILT FENCE CHECK (V-DITCH)
EC-STR-4B	08-01-12	ENCHANCED SILT FENCE CHECK 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-11A	08-01-12	CULVERT PROCTECTION TYPE 2
EC-STR-12	08-01-12	ROCK SEDIMENT DAM
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-29	08-01-12	PERMANENT SLOPE DRAIN PIPE
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-33	08-01-12	SUSPENDED PIPE DIVERSON (DOWNSTREAM)
EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSON (UPSTREAM)
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

16-JUN-2015 10:28
\\J02WF01\dot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\008.std dwg index.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2A

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)(4)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	8011
(2)(4)	203-02.02	BORROW EXCAVATION (GRADED SOLID ROCK)	C.Y.	125500
	203-03	BORROW EXCAVATION (UNCL.)	C.Y.	229951
	203-05	UNDERCUTTING	C.Y.	33000
	203-06	WATER	M.G.	1138
	204-08	FOUNDATION FILL MATERIAL	C.Y.	797
(1)(4)	209-02.03	8" TEMPORARY SLOPE DRAIN	L.F.	2386
(1)(4)	209-05	SEDIMENT REMOVAL	C.Y.	2152
(1)(4)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	46587
(1)(4)	209-08.07	ROCK CHECK DAM PER	EACH	44
(1)(4)	209-09.03	SEDIMENT FILTER BAG (15'X15')	EACH	8
(1)(4)	209-09.24	JUTE MESH FABRIC	S.Y.	6504
(1)(4)	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	13
	209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH	2
	209-65.03	TEMPORARY DIVERSION CHANNEL	LF	323
	209-65.04	TEMPORARY INSTREAM DIVERSION	LF	1019
(3)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	32418
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	14289
(4)	303-10.01	MINERAL AGGREGATE, TYPE A BASE (SIZE 57)	TON	406
(3)	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	6172
(3)	307-01.02	ASPHALT CEMENT (PG64-22) (BPMB-HM) GRADING A-S	TON	20
(3)	307-01.03	AGGREGATE (PG64-22) (BPMB-HM) GRADING A-S	TON	579
(3)	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	4013
(3)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	74
(3)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	285
(3)	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	23
(3)	411-01.10	ACS MIX(PG64-22) GRADING D	TON	3659
	411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS)(8IN WIDTH)	L.M.	2.2
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	2820
(6)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	350
(6)	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	76977
	604-10.51	SCARIFYING	S.Y.	583
(8)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	134
(8)	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	487
(8)	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	469
(8)	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	87
(8)	607-11.03	60" CONCRETE PIPE CULVERT (CLASS III)	L.F.	106
(8)	607-16.02	30"X 19" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	82
(5)	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	619
(8)	611.07.01	CLASS A CONCRETE (PIPE END WALLS)	C.Y.	22
(8)	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	410
(8)	611-07.32	24" ENDWALL (SIDEDRAIN)	EACH	10
(8)	611-07.54	18" ENDWALL (CROSS DRAIN) 3:1	EACH	4
(8)	611-07.60	30" ENDWALL (CROSS DRAIN) 3:1	EACH	8
(8)	611-07.63	36" ENDWALL (CROSS DRAIN) 3:1	EACH	4
(8)	611-07.64	36" ENDWALL (CROSS DRAIN) 4:1	EACH	1
(8)	611-07.65	36" ENDWALL (CROSS DRAIN) 6:1	EACH	1
(8)	611-07.66	42" ENDWALL (CROSS DRAIN) 3:1	EACH	2
(8)	611-12.01	CATCH BASINS,TYPE12,0' - 4' DEPTH	EACH	4
(8)	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	3
(8)	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	1
	701-01.01	CONCRETE SIDEWALK (4")	S.F.	9270
	701-02.03	CONCRETE CURB RAMP	S.F.	368
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	132
(7)	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	9647
(7)	705-04.03	GUARDRAIL TERMINAL (TYPE 13)	EACH	1
(7)	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	14
(7)	705-04.07	GUARDRAIL TERMINAL (TYPE 38)	EACH	9
	706-01	GUARDRAIL REMOVED	L.F.	1110
(4)	707-08.11	HIGH VISIBILITY CONSTRUCTION FENCE	L.F.	9571

(1) See Subsection 209.07 of the Standard Specifications for maintenance replacement.
All quantities are to be used as directed by the engineer.
(2) Includes 9462 C.Y. for temporary berm.
(3) See Sheet 2L for tabulated quantities.
(4) See Sheet 2K for tabulated EPSC quantities.
(5) See Sheet 2K for tabulated side drain quantities.
(6) See Sheet 2J for tabulated box culvert and slab bridge quantities.
(7) See Sheet 2J for tabulated guardrail quantities.
(8) See Sheet 2H for tabulated drainage structure quantities.
(9) See Traffic Control Layouts.
(10) See Signing & Pavement Marking Layouts.

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	83
(4)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	300
(4)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	866
	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	391
	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	228
	710-04	FILTER CLOTH UNDERDRAIN (WITH PIPE)	L.F.	2278
	712-01	TRAFFIC CONTROL	LS	1
(9)	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	104
(9)	712-05.01	WARNING LIGHTS (TYPE A)	EACH	42
(9)	712-06	SIGNS (CONSTRUCTION)	S.F.	615
(9)	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	2124
(9)	712-08.03	ARROW BOARD (TYPE C)	EACH	2
(10)	713-11.01	"U" SECTION STEEL POSTS	LB	508
(10)	713-11.02	PERFORATED KNOCKOUT SQUARE TUBE POST	LB	2240
(10)	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	302
(10)	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	237
(10)	716-01.21	SNOWPLOWABLE PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	537
(10)	716-01.22	SNOWPLOWABLE PVMNT MARKERS (MONO-DIR) (1 COLOR)	EACH	110
(10)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	240
(10)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	234
(10)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	24
(10)	716-02.09	PLASTIC PAVEMENT MARKING (LONG CROSS-WALK)	L.F.	173
(10)	716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	6
	716-04.04	PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)	L.F.	64
(10)	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	9
	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	90
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	4.2
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	209
(10)	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	8.3
	716-13.04	SPRAY THERMO PVMT MRKNG (60 mil) (4IN DOTTED LINE)	L.F.	122
	717-01	MOBILIZATION	LS	1
	740-06.01	GEOMEMBRANE	S.Y.	3100
(4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1400
(4)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	132500
(4)	740-11.05	TEMPORARY SEDIMENT TUBE 24IN (DESCRIPTION)	L.F.	13500
(4)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	2224
(4)	801-03	WATER (SEEDING & SODDING)	M.G.	1018
	803-01	SODDING (NEW SOD)	S.Y.	79506
(4)	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	30084
(4)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	38400
	806-02.03	PROJECT MOWING	CYCL	2

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

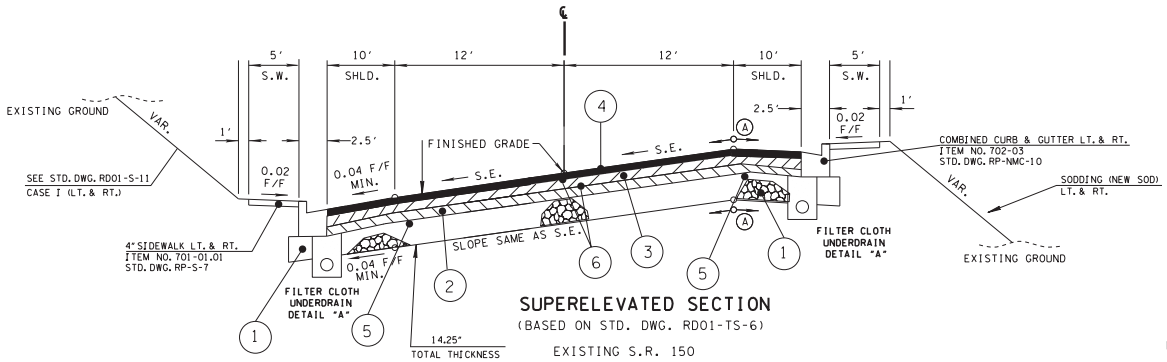
ESTIMATED ROADWAY QUANTITIES

16-JUL-2015 07:26
\\J02\F0\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\002A_est quant.SHT

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

Rev. 10/31/2013
Add Tarkiln Road to resurfacing typical. Correct station limits for typicals.

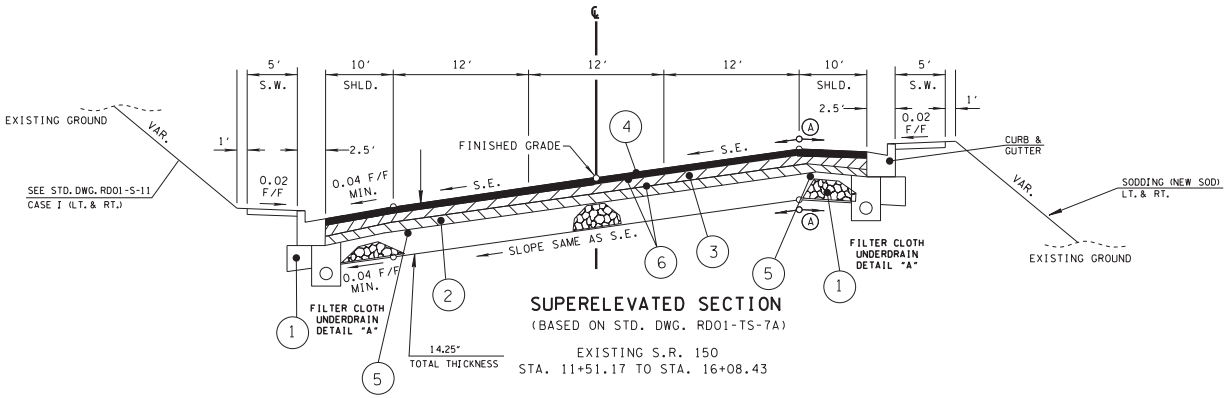
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	2
CONST.	2015	STP-150(4)	2C



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

EXISTING S.R. 150
STA. 6+00 TO 7+34
STA. 7+34 TO 11+51.17 (TRANS. 24' TO 36')

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



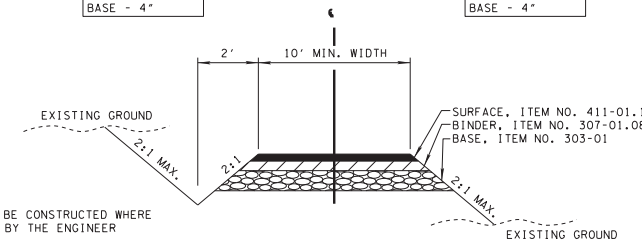
SUPERELEVATED SECTION
(BASED ON STD. DWG. RD01-TS-7A)

EXISTING S.R. 150
STA. 11+51.17 TO STA. 16+08.43

PROPOSED PAVEMENT SCHEDULE	
(1) MINERAL AGGREGATE BASE 8" (2.03 TONS/C.Y.) 303-01 MINERAL AGGREGATE BASE, TYPE "A" BASE, GRADING "D"	(4) ASPH. CONCRETE SURF. 1.25" (APPROX. 132.5 LB/S.Y. 411-01.10 ACS MIX (PG 64-22) GRADING "D"
(2) BITUMINOUS PLANT MIX BASE (HOT MIX) 3" (APPROX. 345 LB/S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG 64-22): (BPMB-HM) GRADING "A"	(5) PRIME COAT (PC) 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.30 - 0.35 LBS./S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 12 LBS./S.Y.
(3) BITUMINOUS BINDER 2" (APPROX. 226 LB/S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG 64-22) : (BPMB-HM) GRADING "B-M2'	(6) TACK COAT (TC) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) @ 0.07 GAL./S.Y .

BUSINESS
SURFACE - 1¼"
BINDER - 1¾"
BASE - 4"

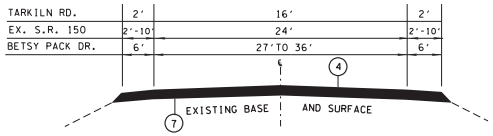
FIELD OR RESIDENTIAL
SURFACE - 1½"
BINDER - NONE
BASE - 4"



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

CUT SECTION FILL SECTION

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



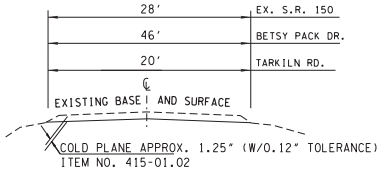
RESURFACING TYPICAL SECTION

EXISTING S.R. 150
STA. 3+50 TO STA. 6+00

BETSY PACK DR.
STA. 11+00 TO STA. 13+74.52

TARKILN ROAD
STA. 1+00 TO STA. 2+87.56

PROPOSED PAVEMENT SCHEDULE
(7) TACK COAT (TC) @ (0.10 GAL./S.Y.) ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)
(4) BITUMINOUS SURFACE @ 1.25"± THICK (APPROX. 132.5 LBS./S.Y.) ITEM 411-01.10 ACS MIX (PG64-22) GRADING "D"



ITEM NO. 415-01.02

COLD PLANING DETAILS

EXISTING S.R. 150
STA. 3+50 TO STA. 6+00

BETSY PACK ROAD
STA. 11+00 TO STA. 13+74.52

TARKILN ROAD
STA. 1+00 TO STA. 2+87.56

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0000000
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

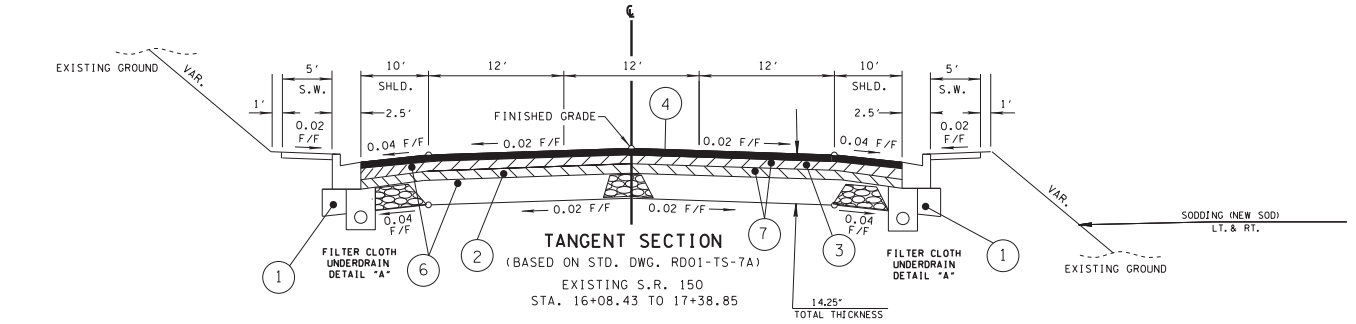
TYPICAL SECTIONS AND PAVEMENT SCHEDULE

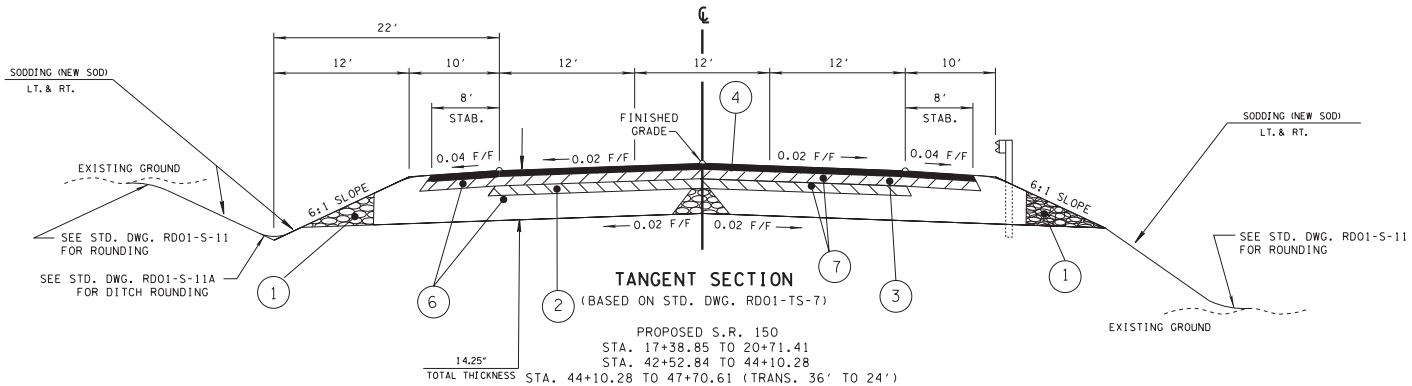
16-JUN-2015 10:30
\\J02WF01.tdot.state.tn.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\J02CTypicalS.MT

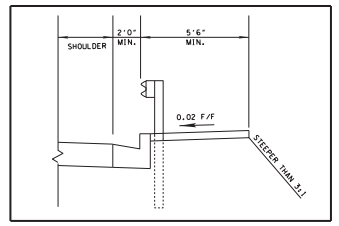
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

Rev. 10/31/2013
Update station limits and slope rates.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	2A
CONST.	2015	STP-150(4)	2D







GUARDRAIL PLACEMENT ON CURB & GUTTER SECTION

PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE BASE 8" (2.03 TONS/C.Y.) 303-01 MINERAL AGGREGATE BASE, TYPE "A" BASE, GRADING "D"	(4) ASPH. CONCRETE SURF. 1.25" (APPROX. 132.5 LB/S.Y. 411-01.10 ACS MIX (PG 64-22) GRADING "D"
(2) BITUMINOUS PLANT MIX BASE (HOT MIX) 3" (APPROX. 345 LB/S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG 64-22): (BPMB-HM) GRADING "A"	(6) PRIME COAT (PC) 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.30 - 0.35 LBS./S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 12 LBS./S.Y.
(3) BITUMINOUS BINDER 2" (APPROX. 226 LB/S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG 64-22) : (BPMB-HM) GRADING "B-M2'	(7) TACK COAT (TC) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) @ 0.07 GAL./S.Y .

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0009999
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

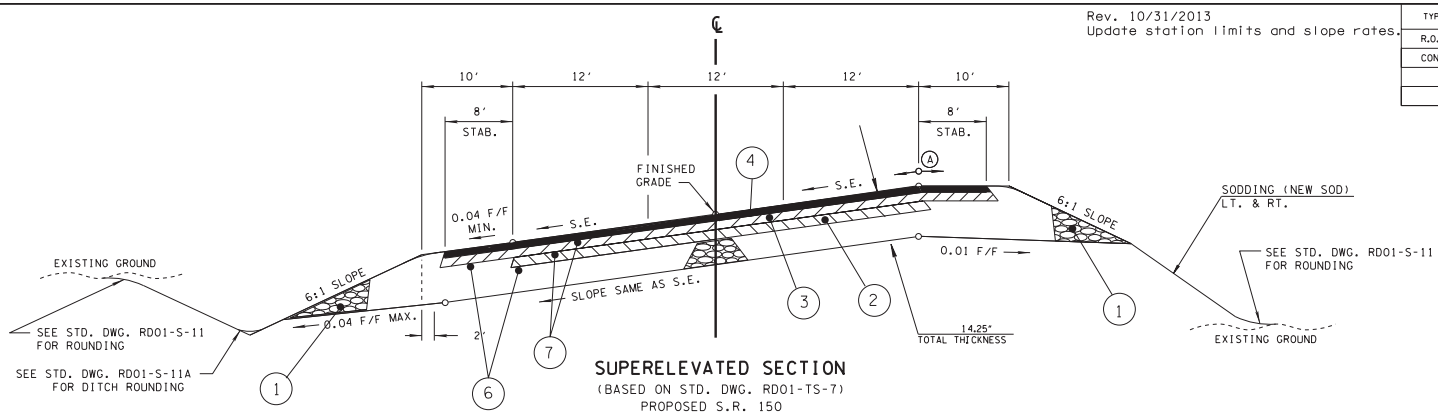
TYPICAL SECTIONS AND PAVEMENT SCHEDULE

6-JUN-2015 10:30
\\J02\MF01.tdot.state.tn.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\J02DTypicalSHT

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

Rev. 10/31/2013
Update station limits and slope rates.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	2B
CONST	2015	STP-150(4)	2E

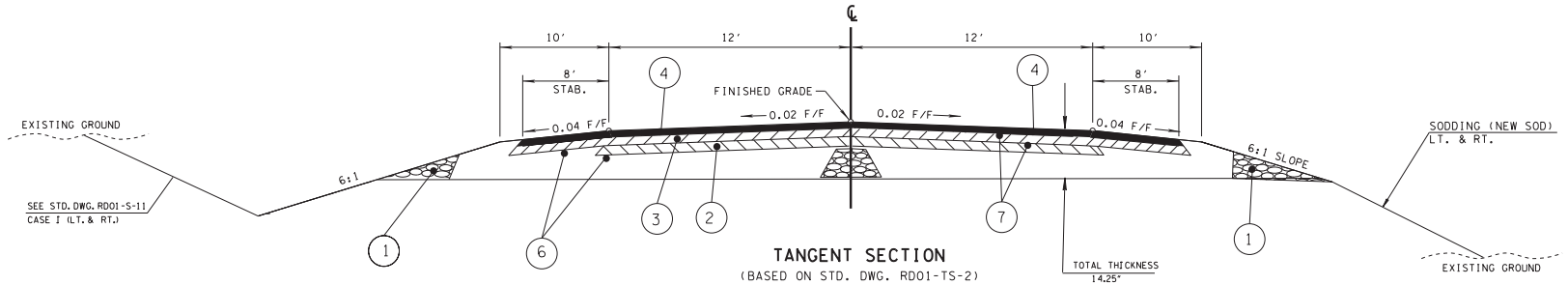


SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-7)

PROPOSED S.R. 150
STA.20+71.41 TO 22+50
STA.22+50 TO 26+10 (TRANS. 36′ TO 24′)
STA.40+51.46 TO 42+52.84

HWY-27
STA.4+45 TO 7+49.30



TANGENT SECTION

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

PROPOSED S.R. 150
STA.26+10 TO 34+36.32
STA.47+70.61 TO 65+00
STA.65+00 TO 70+34 (TRANS. 24′ TO 36′)

FUTURE SCHOOL RAMP
STA.6+18.07 TO 8+50

PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE BASE 8″ (2.03 TONS/C.Y.) 303-01 MINERAL AGGREGATE BASE, TYPE "A" BASE, GRADING "D"	(4) ASPH. CONCRETE SURF. 1.25″ (APPROX. 132.5 LB/S.Y. 411-01.10 ACS MIX (PG 64-22) GRADING "D"
(2) BITUMINOUS PLANT MIX BASE (HOT MIX) 3″ (APPROX. 345 LB/S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG 64-22): (BPMB-HM) GRADING "A"	(6) PRIME COAT (PC) 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.30 - 0.35 LBS./S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 12 LBS./S.Y.
(3) BITUMINOUS BINDER 2″ (APPROX. 226 LB/S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG 64-22) : (BPMB-HM) GRADING "B-M2'	(7) TACK COAT (TC) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) @ 0.07 GAL./S.Y .

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0000000
STATE OF TENNESSEE

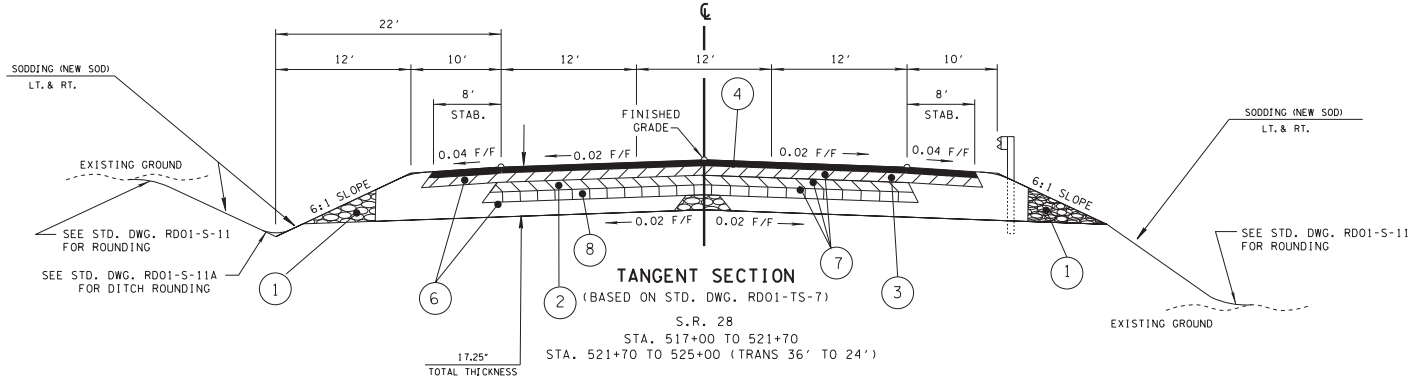
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

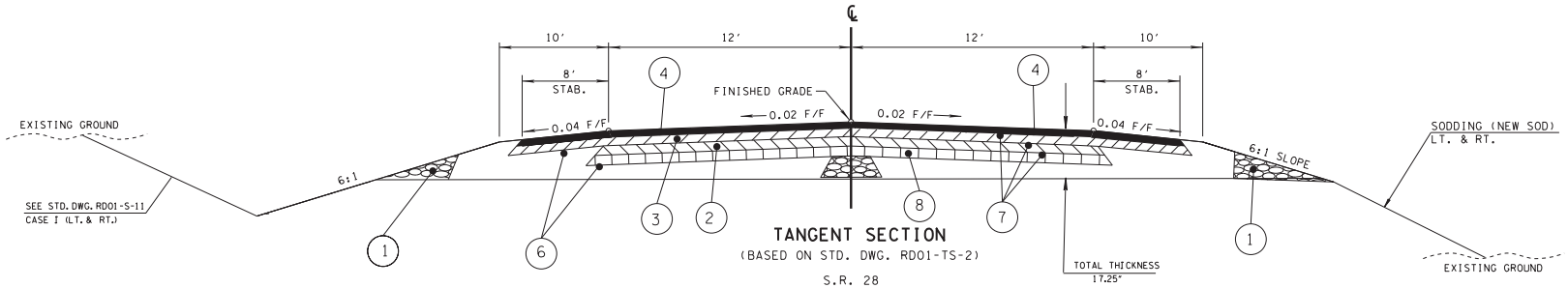
6-JUN-2015 10:30
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\002E\Typical.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2F1



TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-7)
S.R. 28
STA. 517+00 TO 521+70
STA. 521+70 TO 525+00 (TRANS 36' TO 24')



TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-2)
S.R. 28
STA.513+00 TO 517+00 (TRANS. 24' TO 36')

PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE BASE 8" (2.03 TONS/C.Y.) 303-01 MINERAL AGGREGATE BASE, TYPE "A" BASE, GRADING "D"	(4) ASPH. CONCRETE SURF. 1.25" (APPROX. 132.5 LB/S.Y. 411-01.10 ACS MIX (PG 64-22) GRADING "D"
(2) BITUMINOUS PLANT MIX BASE (HOT MIX) 3" (APPROX. 345 LB/S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG 64-22): (BPMB-HM) GRADING "A"	(6) PRIME COAT (PC) 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.30 - 0.35 LBS./S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 12 LBS./S.Y.
(3) BITUMINOUS BINDER 2" (APPROX. 226 LB/S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG 64-22) : (BPMB-HM) GRADING "B-M2"	(7) TACK COAT (TC) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) @ 0.07 GAL./S.Y .
	(8) BITUMINOUS PLANT MIX BASE (HOT MIX) 3" (APPROX. 270 LB/S.Y.) 307-01.02 ASPHALT CEMENT (PG 64-22) : (BPMB-HM) GRADING "A-S" 307-01.03 AGGREGATE (PG 64-22) : (BPMB-HM) GRADING "A-S" MIX

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0009599
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

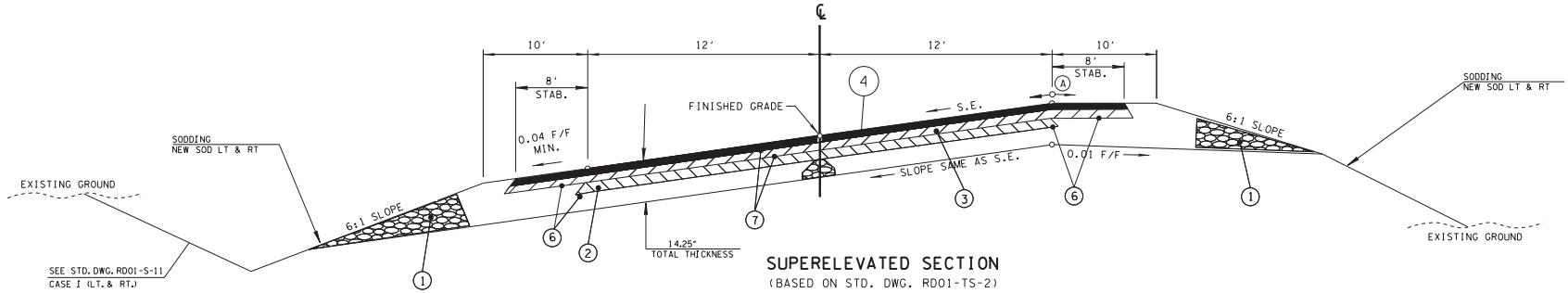
TYPICAL SECTIONS AND PAVEMENT SCHEDULE

16-JUN-2015 10:30
\\J02WF01.tdot.state.tn.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\J02\F1typical.SHT

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

Rev. 10/31/2013
Update station limits & slope rates.
Delete Tarkiln Road typical.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	2C
CONST.	2015	STP-150(4)	2F



SUPERELEVATED SECTION

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

PROPOSED S.R. 150
STA.34+36.32 TO 36+91.46
STA.36+91.46 TO 40+51.46 (TRANS. 24' TO 36')

FUTURE SCHOOL RAMP
STA.2+68 TO 4+18 (TRANS. 36' TO 24')
STA. 4+18 TO 6+18.07

HWY-27
STA.1+00 TO 4+45 (TRANS. 24' TO 36')

PROPOSED PAVEMENT SCHEDULE

(1) MINERAL AGGREGATE BASE 8" (2.03 TONS/C.Y.) 303-01 MINERAL AGGREGATE BASE, TYPE "A" BASE, GRADING "D"	(4) ASPH. CONCRETE SURF. 1.25" (APPROX. 132.5 LB/S.Y. 411-01.10 ACS MIX (PG 64-22) GRADING "D"
(2) BITUMINOUS PLANT MIX BASE (HOT MIX) 3" (APPROX. 345 LB/S.Y.) 307-01.01 ASPHALT CONCRETE MIX (PG 64-22): (BPMB-HM) GRADING "A"	(6) PRIME COAT (PC) 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.30 - 0.35 LBS./S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 12 LBS./S.Y.
(3) BITUMINOUS BINDER 2" (APPROX. 226 LB/S.Y.) 307-01.08 ASPHALT CONCRETE MIX (PG 64-22) : (BPMB-HM) GRADING "B-M2'	(7) TACK COAT (TC) 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) @ 0.07 GAL./S.Y .

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0009599
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

6-JUN-2015 10:30
\\J02\MF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\002FTypical.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2G

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF 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 CULVERT, SEWERS, CONDUITS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).

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

(2) 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

RIGHT - OF – WAY

(1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, ROADWAY DESIGN DIVISION AND THE CIVIL ENGINEERING MANAGER 1, REGIONAL 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.

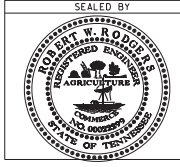
(5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

(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 SECTION 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.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

16-JUN-2015 10:30
\\J02WF01\tdot\stota.fnus\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\0026\gen notes.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2G1

GENERAL NOTES

RIGHT - OF – WAY (CONTINUE)

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

(11) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

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.

FINAL PAVEMENT MARKING IF 4" SPRAY THERMOPLASTIC (60 mil) IS USED

(1) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (60 mil) 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. 716-13.01, SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

PAVEMENT

PAVING

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

RESURFACING

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

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

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

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

SIGNING

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

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

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

SIGNALIZATION

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

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

(3) SIGNAL HEADS SHALL FLASH A MINIMUM OF SEVEN (7) DAYS PRIOR TO ACTIVATION OF THE SIGNAL.

(4) THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR SUPPLYING THE CONTRACTOR WITH AS BUILT SIGNAL PLANS AT THE PRE-CONSTRUCTION CONFERENCE. THESE PLANS WILL PROVIDE THE CONTRACTOR WITH THE DESIRED LOCATION FOR DETECTOR LOOP REPLACEMENT.

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

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

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

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

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

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

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF A OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE.. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

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

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

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

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

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

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

SEDIMENT CONTROL

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

(2) 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.

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

16-JUN-2015 10:31
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\00262_gen notes.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2G2

GENERAL NOTES

SEDIMENT CONTROL (CONTINUE)

(3) 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.

(4) 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.

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

(6) 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.

(7) 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.

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

STREAM/WETLAND

(1) 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.

(2) 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.

(3) 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.

(4) 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.

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

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

(7) 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.

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

SPECIES

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

INSPECTION, MAINTENANCE, REPAIR

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

(2) 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.

(3) 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.

(4) 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.

(5) 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.

(6) 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.

(7) 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.

(8) 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

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

SWPPP, PERMITS, PLANS, RECORDS

(1) 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.

(2) 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, 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.

(3) 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.

(4) 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 BRIEF 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.

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

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

16-JUN-2015 10:32
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\00263_gen notes.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2G3

GENERAL NOTES

SWPPP, PERMITS, PLANS, RECORDS (CONTINUE)

(6) 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.

(7) 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.

(8) 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.

(9) 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

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

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

SPECIAL NOTES

GRADING

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

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

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

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S 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.

SIGNALIZATION

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

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 22, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL

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

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
AND
SPECIAL NOTES

16-JUN-2015 10:34
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\002G4_gen notes.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2H

CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS			REMARKS
									TYPE 12 611-12.01 0' - 4'	TYPE 12 611-12.02 4' - 8'	TYPE 14 611-14.02 4' - 8'	
4B	EX. SR 150	8+49.22 LT	24	1	669.37	12	7.02	D-CB-12S		1		
4B	EX. SR 150	8+49.22 RT	24	2	668.18	12	6.85	D-CB-12S		1		
4B	EX. SR 150	10+53.04 LT	25.44	4	666.17	12	1.44	D-CB-12S	1			CAP ONLY
4B	EX. SR 150	10+91.68 RT	24.67	5	664.65	12	3.02	D-CB-12S	1			CAP ONLY
5B	EX. SR 150	14+65 LT	28	6	657.90	14	6.65	D-CB-14S			1	
5B	EX. SR 150	14+85 RT	28	7	657.90	12	7.60	D-CB-12S		1		
5B	EX. SR 150	16+24.53 LT	48.97	8	657.35	12	1.38	D-CB-12S	1			CAP ONLY
5B	EX. SR 150	16+34.81 RT	34.45	9	657.87	12	3.01	D-CB-12S	1			CAP ONLY
TOTALS									4	3	1	

CROSS DRAIN TABULATION

STATION	RCP CLASS III (L.F.) FILL HEIGHT < OR = 18 FT.								SKEW	RIP-RAP CLASS A-1 709-05.06 (TON)	RIP-RAP CLASS B 709-05.08 (TON)	RIP-RAP CLASS C 709-05.09 (TON)	END TREATMENT				CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)	REMARKS
													INLET		OUTLET					
	2@18"	24"	30"	36"	42"	48"	60"	30"x19"					TYPE	DRAWING NO.	TYPE	DRAWING NO.				
8+49				62					90°		19.17				"U" 3:1	D-PE-36A				
14+85				93					90°		19.17				"U" 6:1	D-PE-36A				
48+38			126						90°	28.10			"U" 3:1	D-PE-30A	"U" 3:1	D-PE-30A				
49+83			123						90°	28.10			"U" 3:1	D-PE-30A	"U" 3:1	D-PE-30A				
51+13			122						90°	28.10			"U" 3:1	D-PE-30A	"U" 3:1	D-PE-30A				
52+23				175					73° RT		19.17		"U" 3:1	D-PE-36A	"U" 3:1	D-PE-36A				
54+74				74					73° LT		19.17		"U" 3:1	D-PE-36A	"U" 3:1	D-PE-36A				
58+04			116						85°LT		28.10		"U" 3:1	D-PE-30A	"U" 3:1	D-PE-30A				
60+13							100		60°44'LT			142.28	"A"	D-PE-1	"A"	D-PE-1	10.00	240		
62+29					87				84°20'LT		55.43		"U" 3:1	D-PE-42A	"U" 3:1	D-PE-42A				
69+30								82	60° RT	23.42			Oval	D-PE-5	Oval	D-PE-5	2.6	164		
73+22				65					84° RT		37.22		"U" 4:1	D-PE-36A	"U" 4:1	D-PE-36A				
7+00	67								90°				"U" 4:1	D-PE-18A	"U" 4:1	D-PE-18A				Valley View Hwy (Hwy-27)
TOTALS	67	0	487	469	87	0	106	82		107.72	178.26	142.28					21.26	410	0	

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
No. 0000000
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 1 OF 4

16-JUN-2015 10:35
\\J02\F0\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\002H_tab quant.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2J

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE		STATION		GUARDRAIL	TERMINAL ANCHORS			REMARKS
		LT	RT	FROM	TO	SINGLE TYPE 2 705-02.02 (L.F.)	TYPE 13 705-04.03 (EACH)	TYPE IN-LINE 705-04.05 (EACH)	TYPE 38 705-04.07 (EACH)	
4B	EXIST. S.R. 150		X	3+50	16+85	1288	1		1	
5B	EXIST. S.R. 150		X	17+02	10+88*	55			1	*BETSY PACK
5B	PROP. S.R. 150	X		21+25	45+45	2373		1	1	
5B	PROP. S.R. 150		X	21+40	3+50**	2016			2	**SCHOOL ROAD
5B	PROP. S.R. 150		X	3+50**	46+48	903		1	1	**SCHOOL ROAD
5B	BETSY PACK	X		10+68	11+14	46		1		
6B	PROP. S.R. 150	X		45+75	49+10	335		2		
6B	PROP. S.R. 150		X	46+60	51+30	470		2		
7B	PROP. S.R. 150	X		49+30	58+00	823		1	1	
7B	PROP. S.R. 150		X	51+60	60+80	873		1	1	
10B	VALLEY VIEW		X	1+35	2+73	138		2		
10B	VALLEY VIEW		X	3+03	3+57	52		2		
10B	VALLEY VIEW		X	3+88	7+09	275		1	1	
TOTALS						**9647**	**1**	**14**	**9**	

BOX CULVERT TABULATION

STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA ACRES	BOX CULVERT CLASS "A" CONC. CU. YD.	BOX CULVERT REINF. STEEL LBS.	CULVERT EXC. CU. YD.	DRAWING NO.	BACKFILLING ITEM 303-01.01 DWG. STD-10-1 TONS	FOUNDATION FILL MATERIAL CU. YD.
10+71	EXIST. S.R. 150	8	5	106	53° RT	209	81	17596		STD-15-37	1251	67
16+30.59	EXIST. S.R. 150	10	4	182	83° RT	211	162	38402		STD-15-38	1793	128
TOTALS							**243**	**55998**	**0**		**3044**	**195**

R.O.W. MARKERS

SHEET NO.	QUANTITIES "A"	"B"	"C"	TOTALS
4A	-	4	8	**12**
5A	2	5	8	**15**
6A	-	3	4	**7**
7A	-	3	5	**8**
7B	2	2	3	**7**
8A	1	3	4	**8**
9A	-	-	2	**2**
10A	-	9	15	**24**
TOTALS	**5**	**29**	**49**	**83**

SLAB BRIDGE TABULATION

STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA ACRES	CLASS "A" CONC. 604-01.01 CU. YD.	REINF. STEEL 604-01.02 LBS.	DRAWING NO.	REMARKS
57+09.36	PROP. S.R. 150	16	16	63	80°55' LT	-	107.10	20979	STD-15-106	FOR GAS LINE
TOTALS							**107.10**	**20979**		

SEALED BY

ROBERT W. RODDEN
REGISTERED ENGINEER
AGRICULTURE
CERTIFICATE NO. 0000000
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 2 OF 4

16-JUN-2015 10:35
\\J02\FOL1\dot.state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\002J_tab quant.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2K

SIDE DRAIN TABULATION

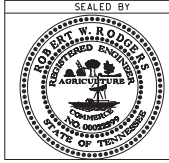
STATION	LOCATION		DESCRIPTION	SURFACE WIDTH	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 10 FT.				RCP CLASS III OR CMP 14 GA./HDPE/PVC (LF) FILL HEIGHT > 10 FT. AND < OR = 18 FT.				REMARKS
	LT	RT		(L.F.)	18"	24"	30"	36"	18"	24"	30"	36"	
1+42		X	PVT. DR.	10		12							Hwy-27 (Valley View Hwy)
3+00		X	PVT. DR.	12		16							Hwy-27 (Valley View Hwy)
3+80		X	PVT. DR.	12		16							Hwy-27 (Valley View Hwy)
6+14	X		PVT. DR.	36		40							Hwy-27 (Valley View Hwy)
7+66	X		PVT. DR.	20		64							Hwy-27 (Valley View Hwy)
8+86	X		PVT. DR.	12									Prop. SR-150
12+89	X		PVT. DR.	20									Prop. SR-150
15+15	X		PVT. DR.	20									Prop. SR-150
39+93		X	SCHOOL ROAD	36						170			Prop. SR-150
45+49	X		PVT DR.	12						80			Prop. SR-150
46+48		X	PVT DR.	12						67			Prop. SR-150
49+14	X		PVT DR.	12						88			Prop. SR-150
51+48		X	PVT DR.	12						66			Prop. SR-150
61+50	X		BUS. ENT.	40									Prop. SR-150
TOTALS					0	148	0	0	0	471	0	0	

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	PHASE			TOTAL QUANTITY
			1	2	3	
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	104	4509	3398	8011
209-02.03	8" TEMPORARY SLOPE DRAIN	L.F.			2386	2386
209-05	SEDIMENT REMOVAL	C.Y.		1076	1076	2152
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	15949	16458	14180	46587
209-08.07	ROCK CHECK DAM	EACH			44	44
209-09.03	SEDIMENT FILTER BAG (15'x 15')	EACH		4	4	8
209-09.24	JUTE MESH FABRIC	S.Y.	2168	2168	2168	6504
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH		6	7	13
209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH		1	1	2
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON		87	319	406
209-65.03	TEMPORARY DIVERSION CHANNEL	LF			323	323
209-65.04	TEMPORARY INSTREAM DIVERSION	LF		474	545	1019
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	4964	3178	1429	9571
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON		87	699	786
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	100	100	100	300
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	172	376	920	1468
740-11.05	TEMPORARY SEDIMENT TUBE 24IN	L.F.	1580	1507	1465	4552
805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.		15042	15042	30084
805-12.02	EROSION CONTROL BLANKET (TYPE III)	S.Y.		19200	19200	38400

SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT
ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 3 OF 4

6-JUL-2015 07:27
\\J02\F0\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\002K_tab quant.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2L

PAVEMENT QUANTITIES

ITEM NO.	PAY ITEMS DESCRIPTION	MAINLINE	SIDE ROADS	RESURFACING	RAMPS	TOTAL	UNIT
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	21688	10126	---	604	32418	TON
307-01.01	ASPHALT CONCRETE MIX(PG 64-22)(BPMB-HM) GRADING A	4278	1894	---	---	6172	TON
307-01.02	ASPHALT CEMENT(PG 64-22)(BPMB-HM) GRADING A-S	---	20	---	---	20	TON
307-01.03	AGGREGATE(PG 64-22)(BPMB-HM) GRADING A-S	---	579	---	---	579	TON
307-01.08	ASPHALT CONCRETE MIX(PG 64-22)(BPMB-HM) GRADING BM2	2783	1230	---	---	4013	TON
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	49	20	---	3	72	TON
402-02	AGGREGATE FOR COVER MATERIAL (PC)	194	77	---	14	285	TON
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	15	6	1	1	23	TON
411-01.10	ACS MIX (PG 64-22) GRADING D	2210	1062	171	216	3659	TON

TRAFFIC CONTROL QUANTITIES

M.U.T.C.D. NO.	DESCRIPTION	SIZE	PHASE 1 QUANTITY (EACH)	PHASE 2 QUANTITY (EACH)	ITEM NO. 712-06 (S.F.)	REMARKS
G20-2	END OF WORK	36"X18"	6	4	45	
R11-2	ROAD CLOSED	48'X30"	8	9	170	
W20-1	ROAD WORK AHEAD	48"X48"	1		16	
W20-1	ROAD WORK 1500 FT	48"X48"	5	3	128	
W20-1	ROAD WORK 1000 FT	48"X48"	5	3	128	
W20-1	ROAD WORK 500 FT	48"X48"	5	3	128	
TOTAL					615	

ITEM NO.	DESCRIPTION		PHASE 1	PHASE 2		TOTAL QUANTITY
712-04.01	FLEXIBLE DRUMS(CHANNELIZING)		76	28	EACH	104
712-05.01	TYPE "A" WARNING LIGHTS		27	15	EACH	42
712-07.03	TEMP. BARRICADES (TYPEIII)		1119	1005	L.F.	2124

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

SHEET 4 OF 4

16-JUN-2015 10:37
\\J02\F0\tdot\state.tn.us\023shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\002L_tab quant.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	3
CONST	2015	STP-150(4)	3

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
10	Lucile K. Webb	095	013.00	414	967	49.328	0.605	49.933	30 S.F.	0.605	0.606	49.327				
11	Veronica J Owens	107	4.03	417	224	0.435		0.435	2110 S.F.		2110 S.F.	0.387				
12	W.K. Price and Darlene Price	107	4.09	8-z	220	0.887		0.887	0.129		0.129	0.758				
13	Sam Ferrell III	107	4.01	282	1481	4.378		4.378	1558 S.F.		1558 S.F.	4.342				
14	John Cureton, Dallas Brown, and Agnes Boggs Trustees of the McKendree	107	2.0	10-H	124	2.718		2.718	0.239		0.239	2.479				
15	Sam N. Ferrell III, Matt Ferrell, John H. Ferrell, Delia B. Bradford	107	4.16	312	1054	717 S.F.	0.653	0.669	717 S.F.	0.653	0.669					
16	John Richard Gunter II and wife, Shely Gunter	107	4.0	424	1279	11.295	1.477	12.772	1.458	1.477	2.935	9.837				
17	Dewitt L Simerly and wife, Mary K	107	2.02	142	528		1.114	1.114					1.114			
	Dewitt L Simerly and wife, Mary K	107	2.01	246	931											
18	Sam Ferrell III and Bobby Gravitt, JR.	107	4.15	285	294	7.005	12.034	19.039	1.281	4.703	5.984	5.724	7.331			
19	James Lee Gentry and wife, Wanda Barker	107	4.13	224	81	31.563	0.243	31.806	2.243	0.243	2.486	29.320				
20	Ben David May	107	8.0	237	302	61.011	9.552	70.563	2.070	3.264	5.334	58.941	6.288			
21	Benny Kimbal Parker and wife, Teresita Parker	107H	16.01	178	498		8.748	8.748					8.748			
22	Ben Bumpus and wife, Kristi Bumpus	107H	16.00	367	1275		0.814	0.814					0.814			
23	John L Hargis and wife, Carolyn F Harris	107H	17.00	176	892		0.647	0.647					0.647			
24	William E Berryhill and wife, Sandra F Berryhill	107H	18.00	344	1149		1.457	1.457					1.457			
25	New Beginnings Church of God	107H	4-1	354	688		2.922	2.922					2.922			
26	Vicki L Nunley and husband, Ronald G Nunley	107	8.02	378	381	63.620	6.766	70.386	0.874	0.940	1.814	62.746	5.826	562		
27	Marion County Board of Education	107	57.0	273	1729	14.218	45.531	59.749	1.891	2.684	4.575	12.327	42.847	1854		
28	Town of Jasper	107	57.02	348	124		28.825	28.825					28.825			
29	Town of Jasper	107	59	278	1228		26.626	26.626					26.626			
30	James M Rogers	107	66.0	343	1238		29.350	29.350					29.350			
31	Hilda L Linton Trustee of Hilda L Linton Family Trust	107	54	361	198	30.799	20.374	51.173	1.830	1.798	3.628	28.969	18.576			
32	The City of South Pittsburg, Tennessee			5-R	353		1882 S.F.	1882 S.F.					1882 S.F.			
33	Pryor Cemetery	107		P4	599	0.452		0.452				0.452				
50	John Russell Dobbs	107	3.0	357	556	3.742		3.742	0.206		0.206	3.536				
51	Jimmy C. Jones and wife, and Betty Sue Jones	107	4.05	9-A	425	1.005		1.005	1397 S.F.		1397 S.F.	0.973				
52	Richard E. Sisemore	107	1.00	6P	211	2.467		2.467	0.262		0.262	2.205				
1	Agnes Rose Webb Joels	95	13.00	414	967											

Rev. 6/13/2012
Changed aquisition areas for Tract 14 & 34.

Rev. 8/8/2012
Change aquisition areas for Tract 14 and Tract 19. Change total and acquisition areas for Tract #10. Add Tracts #1, 51, and 52. Change Tract #34 to #50.

Rev. 10/11/2012
Remove "line out" for Tract #16. Line out Tracts #17 and #25. Add Gas Pipeline to Utility Owner box. Remove the Total area acres-left for Tract #1 and add to the Total area acres-left for Tract #10.

Rev. 10/31/2013
Updated property acquisition & drainage for Tract's 12, 13, 14, 16, 19, 20, 26, 27 and 52. Delete first ROW note. Update property owners for Tract's 10 and 16.

Rev. 11/20/2013
Revise ROW take lt/rt for Tract 20.

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, DESIGN DIVISION AND THE CIVIL ENGINEERING MANAGER 1, REGIONAL 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.

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

UTILITY OWNERS

UTILITY	OWNER	PHONE NO.	CONTACT	ADDRESS	CITY	STATE	ZIP CODE
TELEPHONE	BELLSOUTH DBA AT&T	(423)752-9144	TIM MANLEY	300 E MARTIN LUTHER KING BLVD	CHATTANOOGA	TN	37403
WATER	TOWN OF JASPER	(423)942-3180	PAUL WAYNE EVANS	4460 MAIN STREET	JASPER	TN	37347
SEWER	TOWN OF JASPER	(423)942-3180	PAUL WAYNE EVANS	4460 MAIN STREET	JASPER	TN	37347
GAS	MARION NATURAL GAS	(423)837-7164	DONALD BLANCETT	P.O. BOX 408	SOUTH PITTSBURG	TN	37380
ELECTRIC	SEQUACHEE VALLEY COOP	(423)837-5036	RANDY MCCLURE	512 CEDAR STREET	SOUTH PITTSBURG	TN	37380
CABLE TV	CHARTER COMMUNICATION	(423)790-1508	JEFF COOK	1235 KING STREET SE	CLEVELAND	TN	37323
FIBER OPTIC	LEVEL(3) COMMUNICATIONS	(720)888-7280	TIM BOYKIN	1025 ELDORADO BLVD, STE 33A-521	BROOMFIELD	CO	80021
GAS	GAS PIPE LINE USGPC, LLC	(312)436-4054	JOSEPH LUCCA	550 WEST ADAMS STREET	CHICAGO	IL	60661

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE & R.O.W. NOTES

16-JUN-2015 07:43
\\J02\fil01.tdot.state.tn.us\J02\Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is it\003.acq table.SHT

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

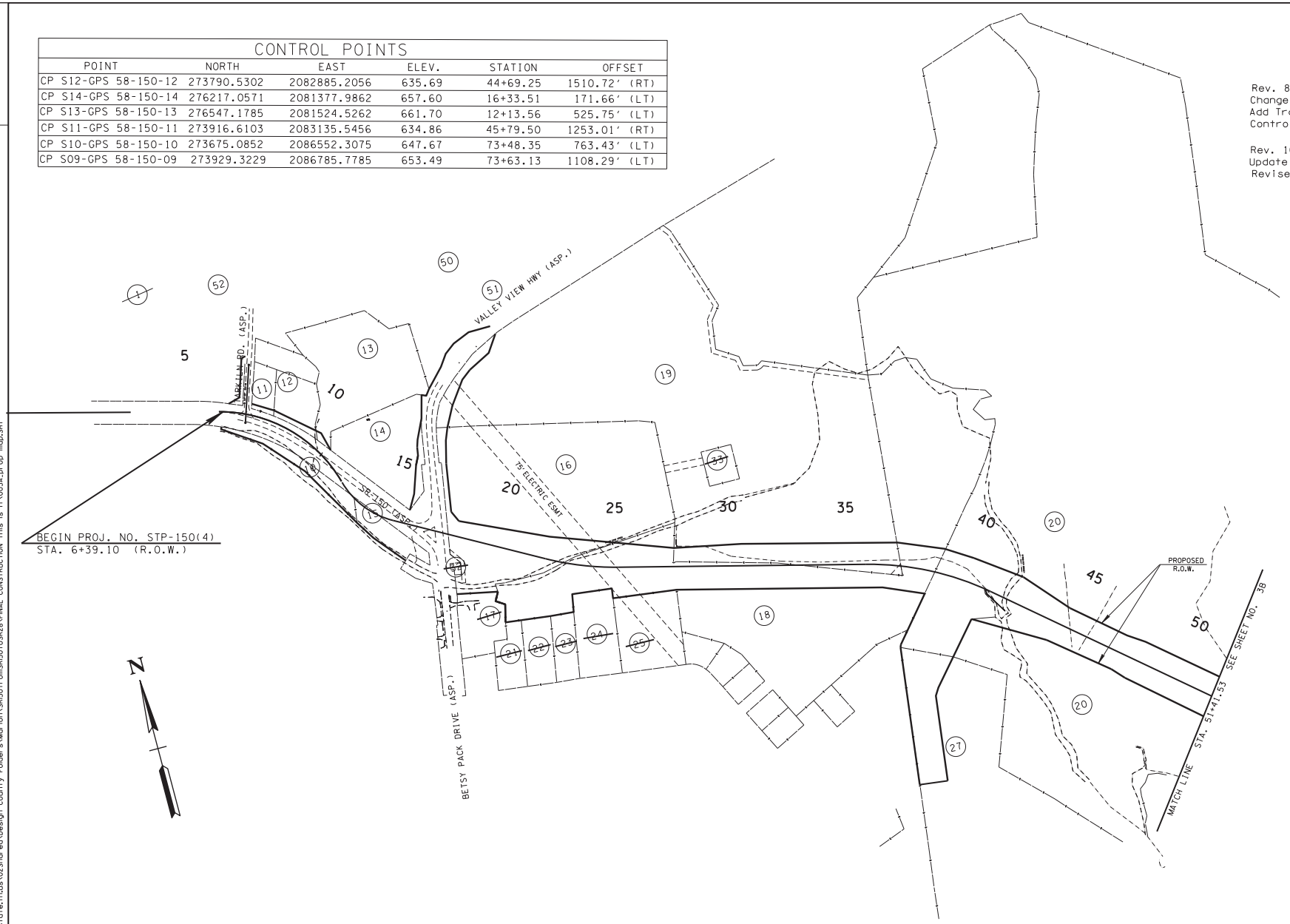
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	3A
CONST.	2015	STP-150(4)	3A

Rev. 8/8/2012
Change Tract #34 to Tract #50.
Add Tract #1, 51, 52. and the
Control Points location chart.

Rev. 10/31/2013
Update begin project & proposed R.O.W.
Revise Control Points table.

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
CP S12-GPS 58-150-12	273790.5302	2082885.2056	635.69	44+69.25	1510.72' (RT)
CP S14-GPS 58-150-14	276217.0571	2081377.9862	657.60	16+33.51	171.66' (LT)
CP S13-GPS 58-150-13	276547.1785	2081524.5262	661.70	12+13.56	525.75' (LT)
CP S11-GPS 58-150-11	273916.6103	2083135.5456	634.86	45+79.50	1253.01' (RT)
CP S10-GPS 58-150-10	273675.0852	2086552.3075	647.67	73+48.35	763.43' (LT)
CP S09-GPS 58-150-09	273929.3229	2086785.7785	653.49	73+63.13	1108.29' (LT)



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 1+00 TO STA. 51+41

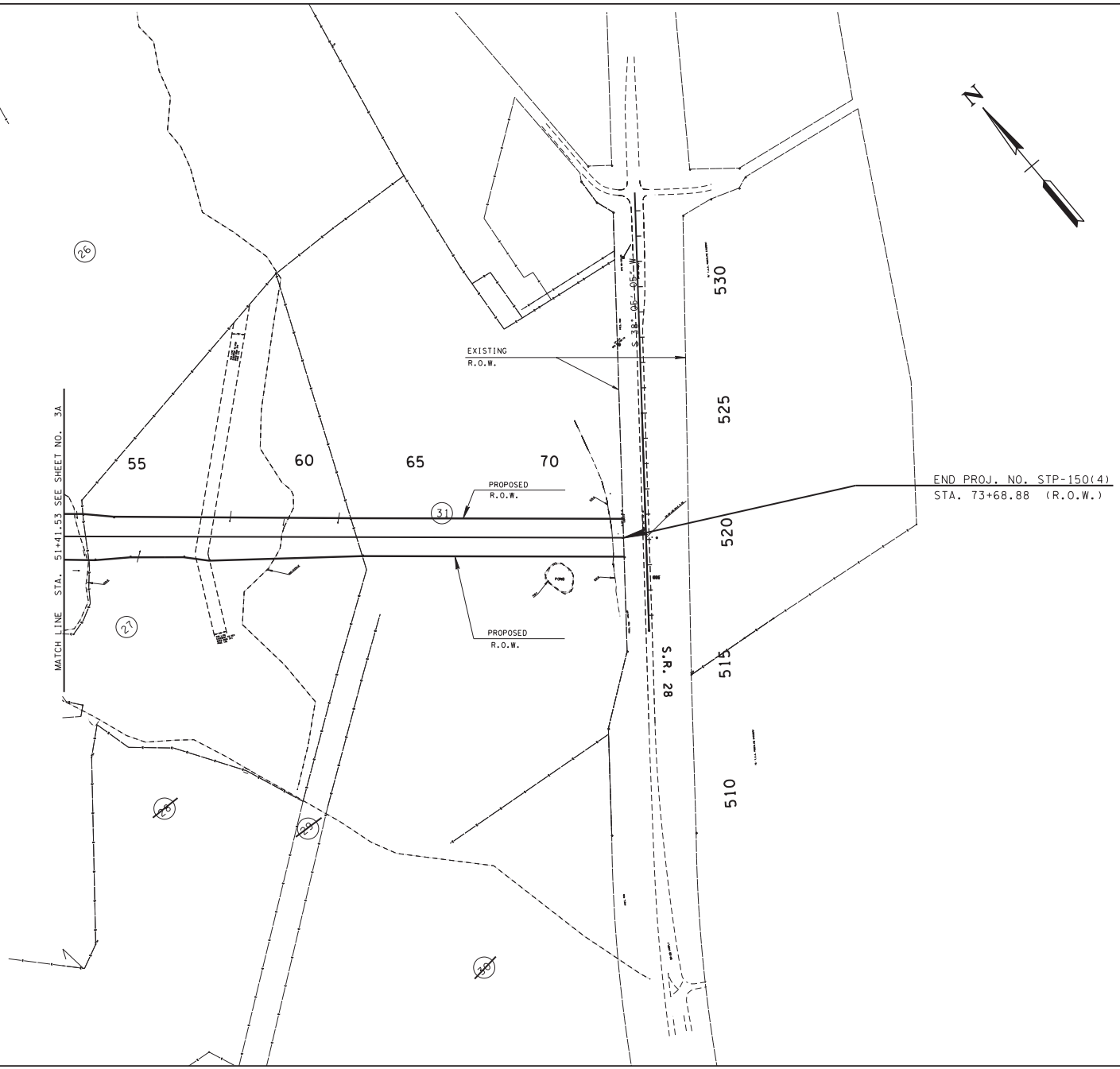
SCALE: 1"=200'

6-JUN-2015 07:44
\\J02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR61toSR28\FINAL CONSTRUCTION This is i:\0034_prop map.SHT

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

Rev. 10/31/2013
Update end project and proposed R.O.W.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	3B
CONST.	2015	STP-150(4)	3B



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA. 51+41 TO STA.75+00
SCALE: 1"=200'

16-JUN-2015 07:44
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\003B_prop map.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	4
CONST.	2015	STP-150(4)	4

Rev. 8/8/2012
Label parent Tract #1 and place Z bar to acquisition area of Tract #10. Extend Tarkiln Rd. center line, add proposed slope and ROW lines. Add Tract # 52.

Rev. 09/12/2012
Sta. 11+00 to 13+00, change toe of slope due to changing side slopes to 2:1 from 6:1 on the South side of existing SR 150. Label environmental boundaries STR-1 and STR-2. Sta. 6+00 to 13+00, place High Visibility Fencing on South side of existing SR 150. Relocate ROW markers to the ROW break line and relabel existing ROW to present ROW.

Rev. 10/31/2013
Updated begin project & ROW take for Tract's 12, 13 & 52. Update property owner for Tract 10.

Rev. 12/06/2013
Show driveway slopes.

N

BEGIN PROJ. NO. STP-150(4)
58015-2215-14 (R.O.W.)
STA. 6+39.10

POT 1+00.00

RICHARD E SISEMORE

SAM FERRELL III

VERONICA OWENS

W.K. PRICE AND DARLENE PRICE

JOHN CURETON, DALLAS BROWN AND AGNES BOGGS TRUSTEES OF McKENDREE METHODIST CHURCH

3 X 4 (EXISTING) CONCRETE BOX CULVERT

POT 3+09.36
PROP. R.O.W.

PRESENT R.O.W.

S 75° 35' 35" E

EXISTING S.R.150

6' WIDE X 2.2' TALL CONCRETE CULVERT

SR150MAINLINE STA. 1+00.00
N 276879.982
E 2080102.294

TARKILN ROAD
STA. 7+44.43
N 276708.7412
E 2080722.8868

STR-1

PRYOR COVE CREEK

LUCILLE K. WEBB

PC 12+60.80

MATCH LINE STA. 13+00 SHT. NO.5

CURVE D978
PI 8+74.49
N 276,661.9105
E 2,080,949.1272
Δ 59° 52' 20" (RT)
D 9° 32' 57"
R 600.00
L 626.98
T 345.52
SE 0.0078 FT/FT
DESIGN SPEED 35 MPH
TRANS. LENGTH 210

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

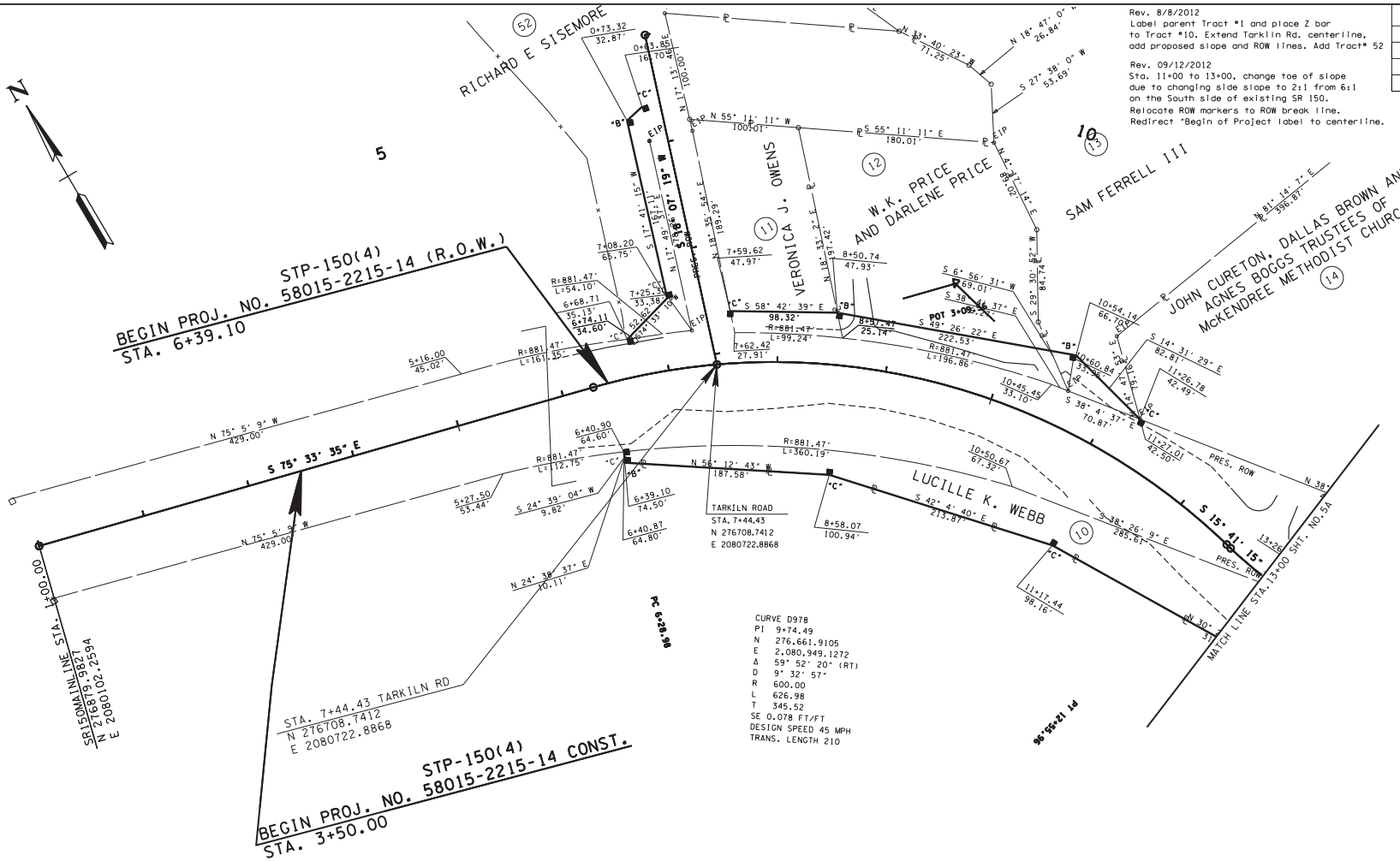
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 1 + 00 TO STA. 13 + 00

SCALE: 1"=50'

16-JUN-2015 10:47
\\J02WF01.tdotstate.tn.us\025shared\Design County Folders\Marion\SR150fromSR50toSR28\FINAL CONSTRUCTION This is 1+1004_pres.SHT



Rev. 8/8/2012
Label parent Tract #1 and place Z bar to Tract #10. Extend Tarklin Rd. centerline, add proposed slope and ROW lines. Add Tract# 52

Rev. 09/12/2012
Sta. 11+00 to 13+00, change toe of slope due to changing side slope to 2:1 from 6:1 on the South side of existing SR 150. Relocate ROW markers to ROW break line. Redirect "Begin of Project label to centerline.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	4A
CONST	2015	STP-150(4)	4A

Rev.10/31/2013
Updated begin project & ROW take for Tract's 12,13 & 52. Update property owner for Tract 10.

Rev.12/06/2013
Show driveway slopes.

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE AND GOVERNMENT
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.1+00 TO STA.13+00

SCALE: 1"=50'

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

6-JUN-2015 10:47
\\J02WF01\tdotstate.tn.us\J02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is i:\0044_detail.SHT

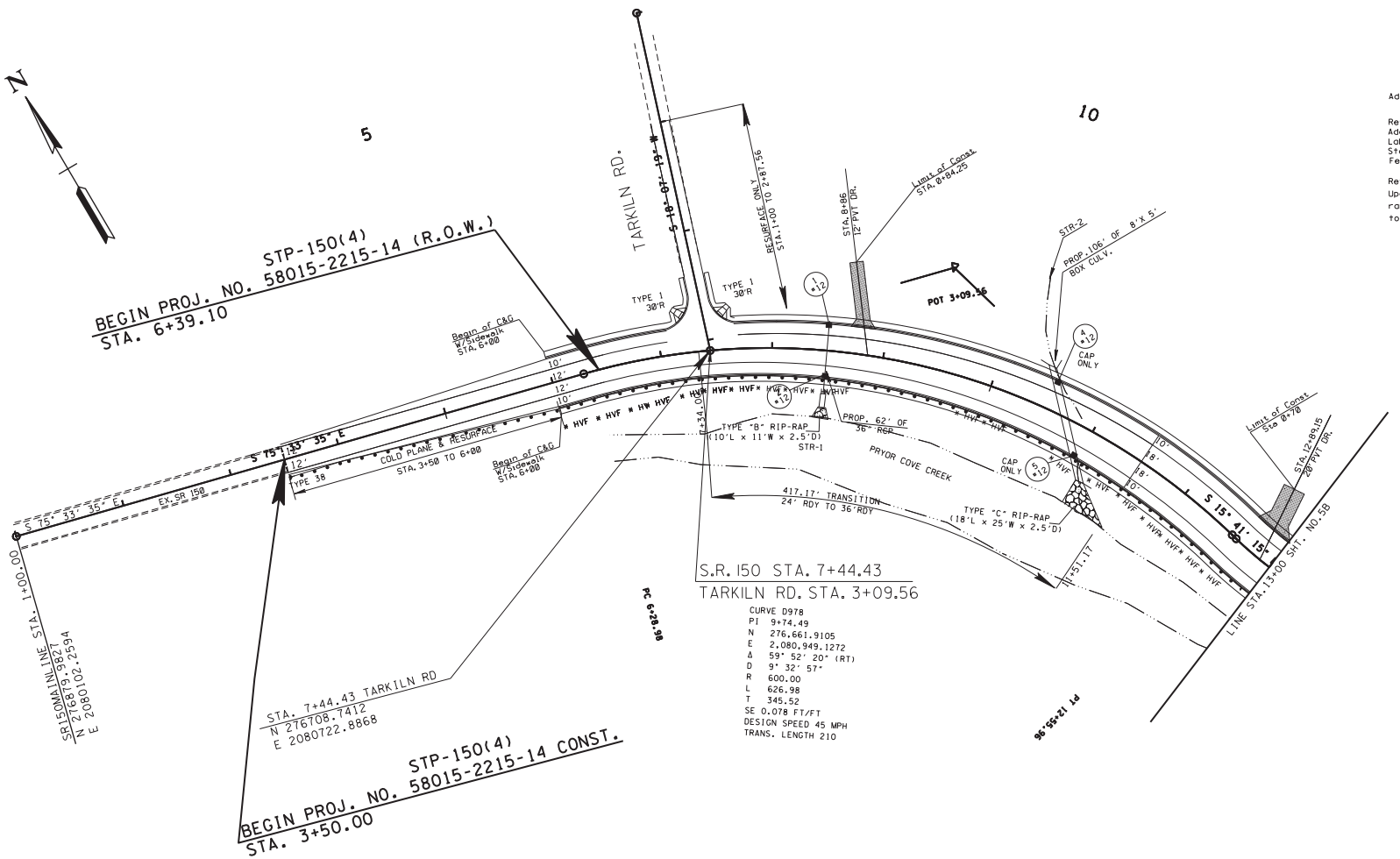
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	4B
CONST	2015	STP-150(4)	4B

Rev. 8/8/2012
Add EOP and ditch lines to proposed layout for Tarkiln Rd.

Rev. 09/12/2012
Add guard rail, Sta. 10+50 to 15+50.
Label environmental boundaries STR-1 & STR-2
Sta. 6+00 to 13+00, place High Visibility Fencing on South side of existing SR 150.

Rev. 10/31/2013
Update drainage structures. Add handicap ramps to Tarkiln Road. Add coordinates to begin project. Add Drainage System table.



CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS TYPE 12 611-12.01 0' - 4'	PAY ITEMS TYPE 12 611-12.02 4' - 8'	PAY ITEMS TYPE 14 611-14.02 4' - 8'	REMARKS
4B	EX. SR 150	8+49.22 LT	24	1	669.37	12	7.02	D-CB-12S		1		
4B	EX. SR 150	8+49.22 RT	24	2	668.18	12	6.85	D-CB-12S		1		
4B	EX. SR 150	10+53.04 LT	25.44	4	666.17	12	1.44	D-CB-12S	1			CAP ONLY
4B	EX. SR 150	10+91.68 RT	24.67	5	664.65	12	3.02	D-CB-12S	1			CAP ONLY
TOTALS									2	2	0	

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0000999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

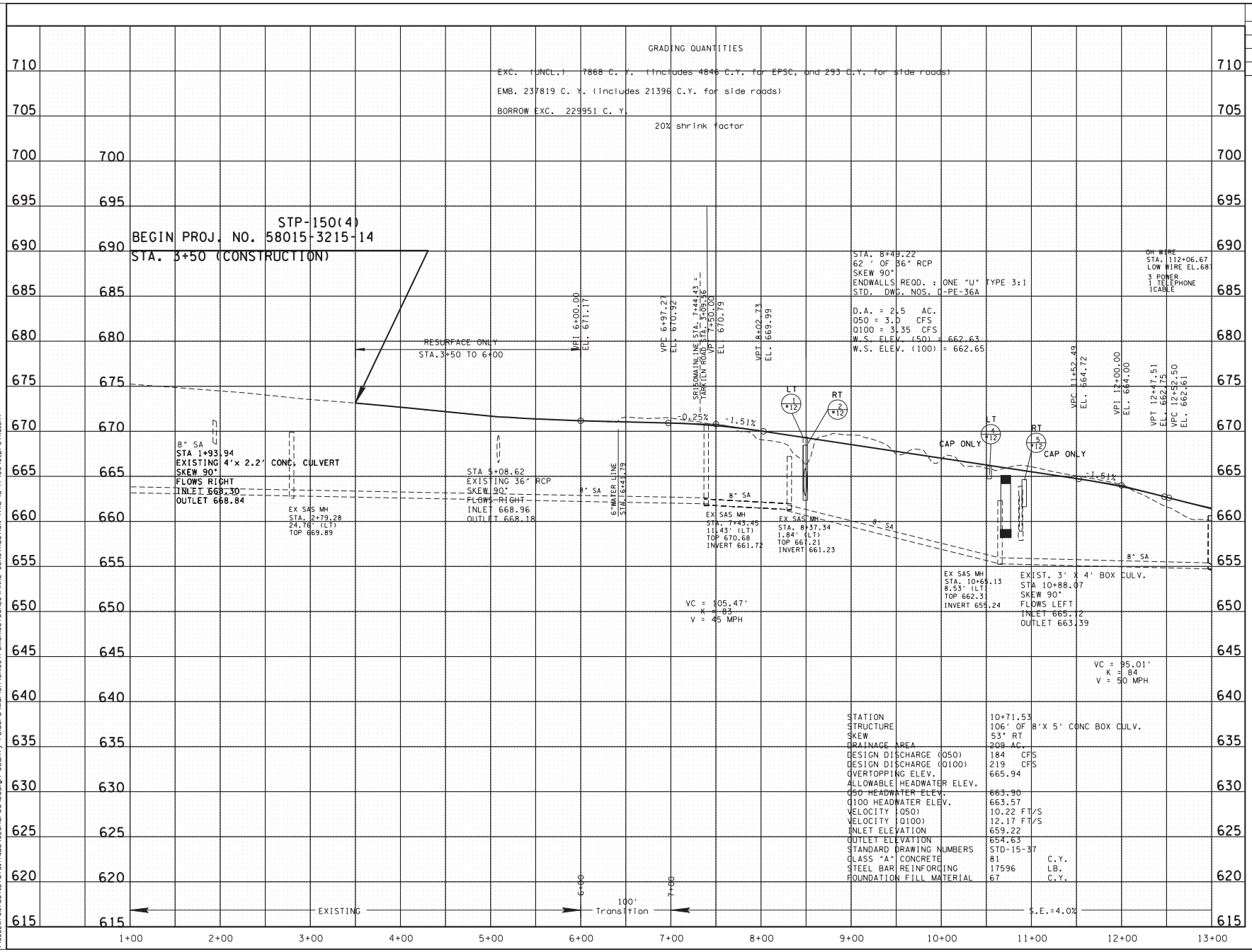
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 1+00 TO STA. 13+00

SCALE: 1"=50'

16-JUN-2015 10:47
\\J02\FOL1\dot\state.tn.us\025\Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is 1\0048_proposed.SHT



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	4C
CONST.	2015	STP-150(4)	4C

Rev. 10/31/2013
Update drainage structures & superelevation rates.

SEALED BY

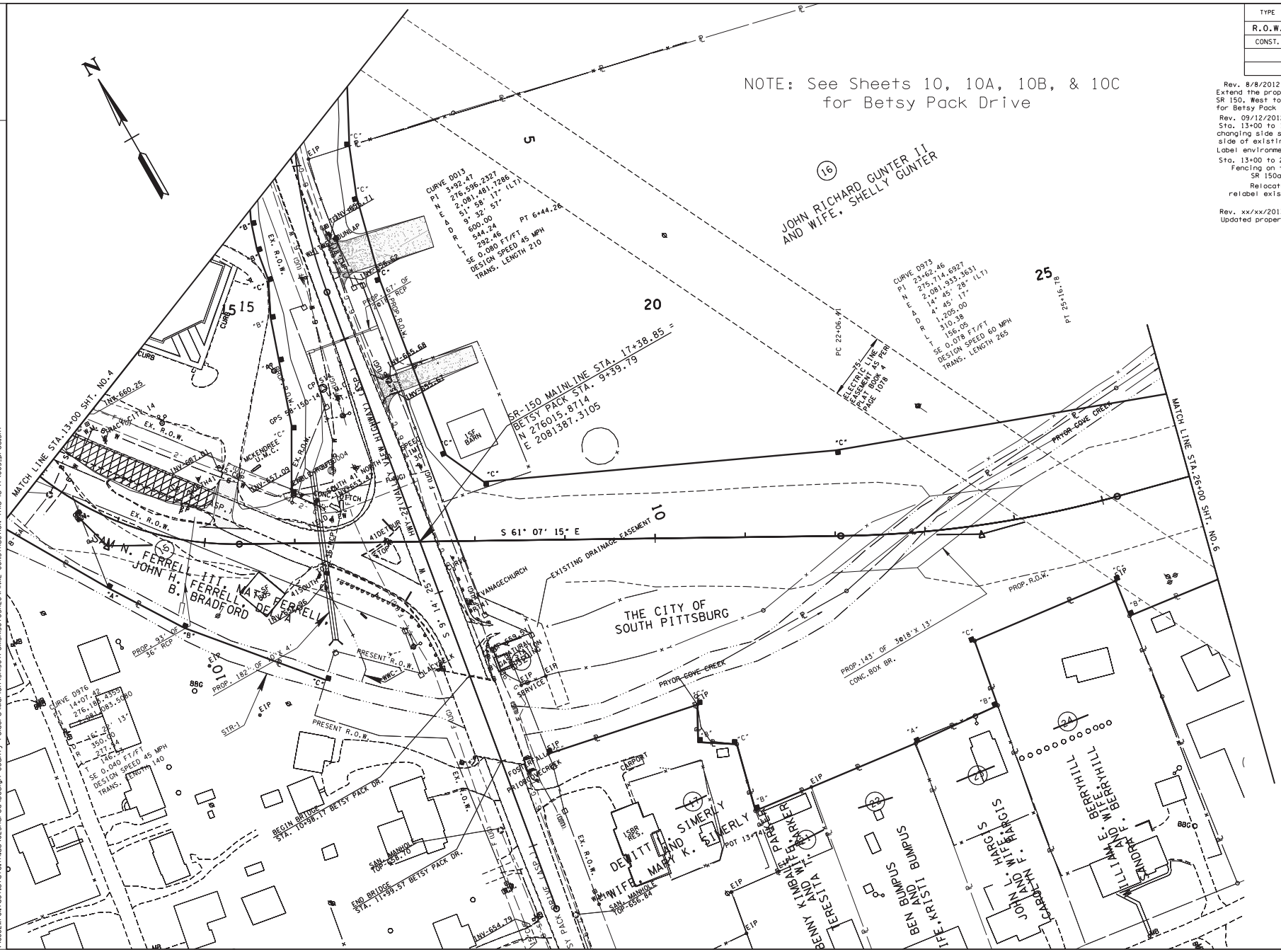
ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0000000
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 1+00 TO STA.13+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

16-JUN-2015 10:47
\\JO2WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is 1\0046_profile.SHT



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	5
CONST.	2015	STP-150(4)	5

Rev. 8/8/2012
Extend the proposed ROW line, South of proposed SR 150, West to the existing ROW line for Betsy Pack Dr.

Rev. 09/12/2012
Sta. 13+00 to 15+00, change toe of slope due to changing side slope to 2:1 from 6:1 on the South side of existing SR 150.
Label environmental boundaries STR-1 and WWC-1
Sta. 13+00 to 21+45, place High Visibility Fencing on the South side of existing SR 150and proposed SR 150.
Relocate ROW markers and relabel existing ROW to present ROW

Rev. xx/xx/2013
Updated property owner for Tract 16.

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.13 +00 TO STA.26+00

SCALE: 1"=50'

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

26-JUN-2015 10:47
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR150fromSR50toSR28\FINAL CONSTRUCTION This is 1"\005_pres.SHT

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

NOTE:

SEE SHEETS 10, 10A, 10B, AND 10C FOR BETSY PACK DRIVE

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	5A
CONST.	2015	STP-150(4)	5A

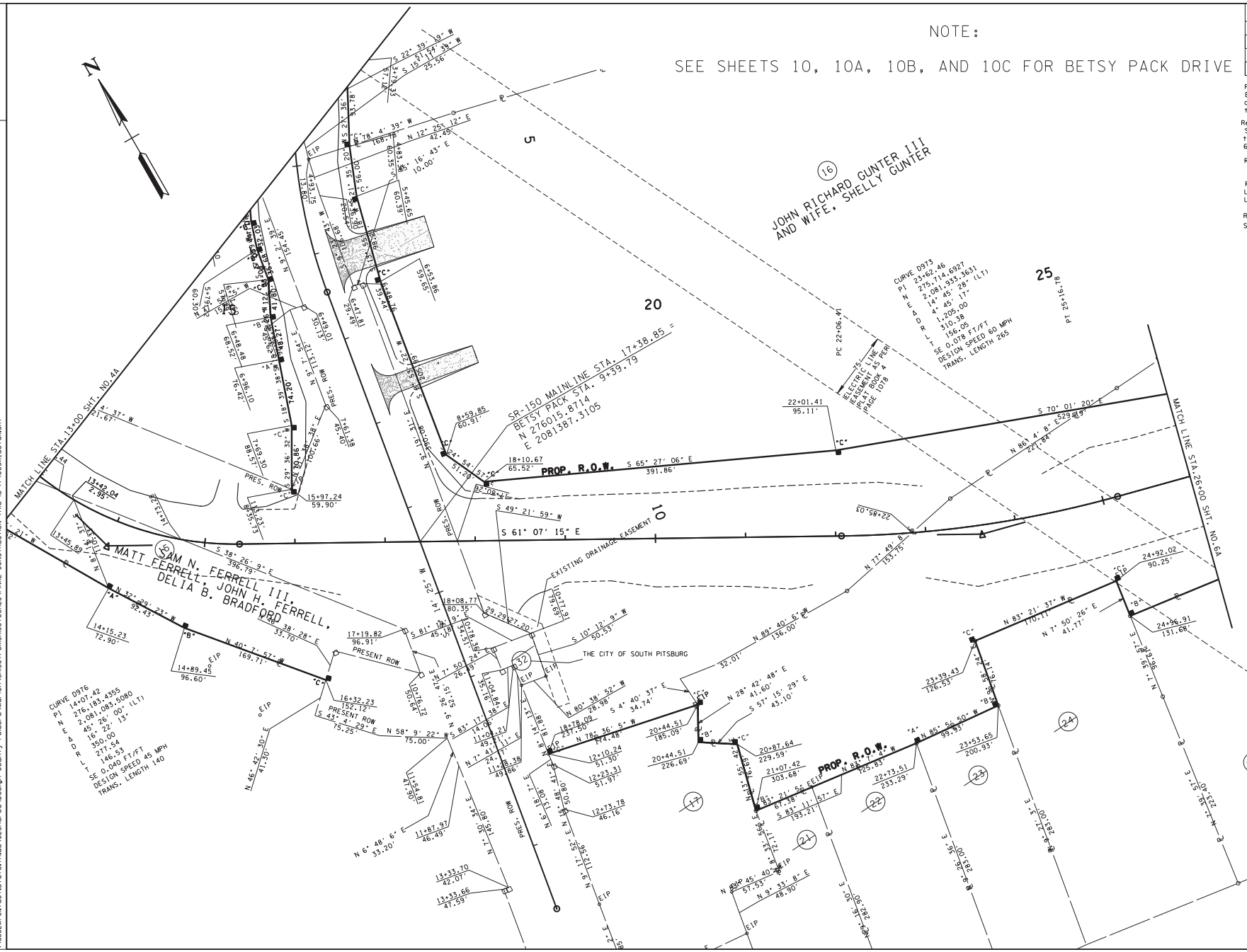
Rev. 8/8/2012
Extend the proposed ROW line, South of proposed SR 150, West to the existing ROW line for Betsy Pack Dr.

Rev. 09/12/2012
Sta. 13+00 to 15+00, change toe of slope due to changing side of slopes to 2:1 from 6:1 on South side of SR 150.

Relocate ROW markers and label present ROW.

Rev. 10/31/2013
Update ROW take for Tracts 14 & 16.
Update property owner for Tract 16.

Rev. 12/06/2013
Show driveway slopes.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00003
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 13+00 TO STA. 26+00

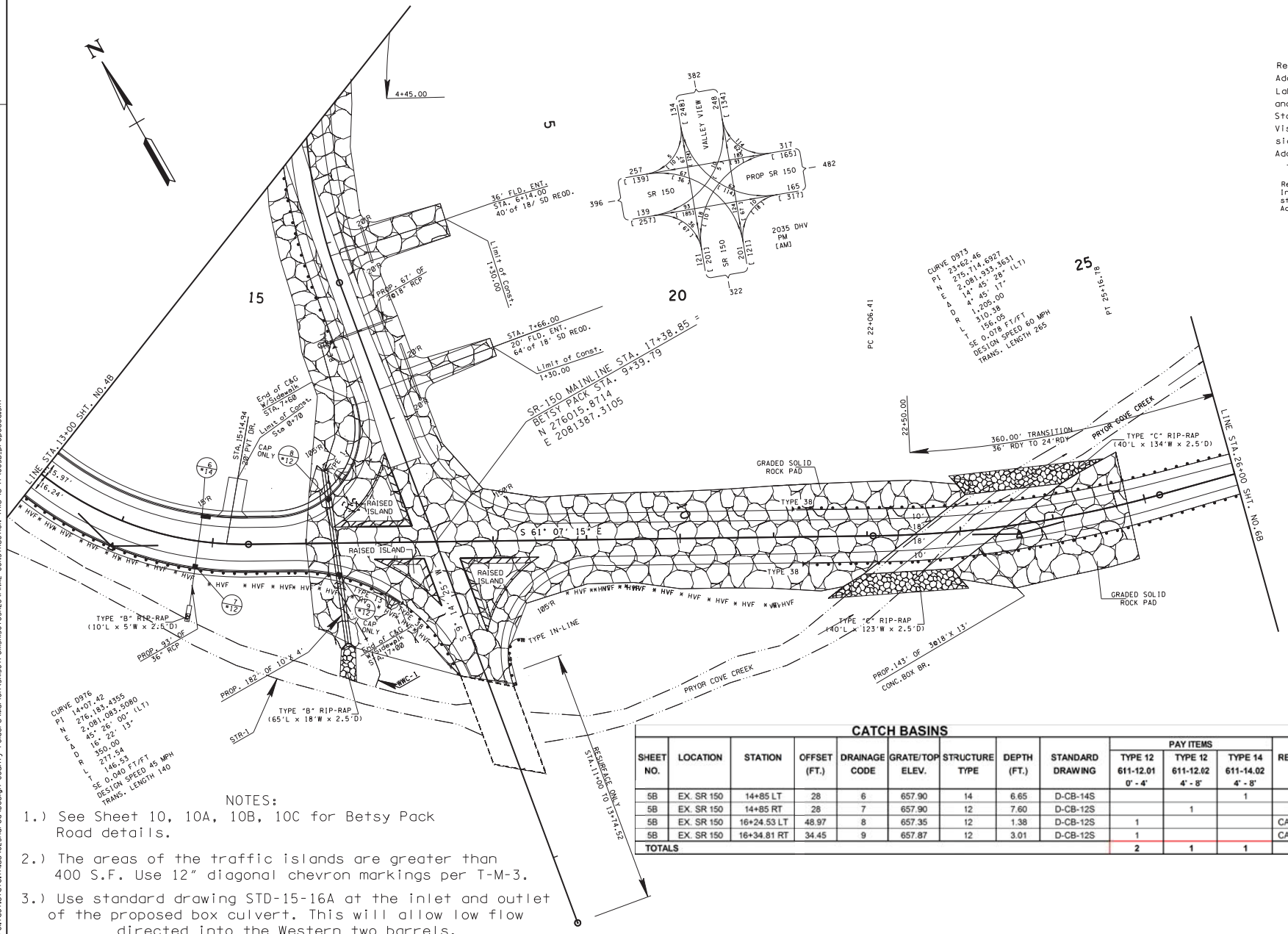
SCALE: 1"= 50'

6-JUN-2015 10:47
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\005A_detail.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	5B
CONST.	2015	STP-150(4)	5B

Rev. 09/12/2012
Add guard rail, Sta. 10+50 to 15+50.
Label environmental boundary STR-1 and WWC-1.
Sta. 13+00 to 21+45, add High Visibility Fencing on the South side of existing and proposed SR 150.
Add Note #3, to use STD-15-16A for the proposed box culvert.

Rev. 10/31/2013
Increase turning radii. Update drainage structures. Add Drainage System table.
Add Betsy Pack ramps 6+14 & 7+66 lt.



CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS TYPE 12 611-12.01 0' - 4'	PAY ITEMS TYPE 12 611-12.02 4' - 8'	PAY ITEMS TYPE 14 611-14.02 4' - 8'	REMARKS
5B	EX. SR 150	14+85 LT	28	6	657.90	14	6.65	D-CB-14S			1	
5B	EX. SR 150	14+85 RT	28	7	657.90	12	7.60	D-CB-12S		1		
5B	EX. SR 150	16+24.53 LT	48.97	8	657.35	12	1.38	D-CB-12S	1			CAP ONLY
5B	EX. SR 150	16+34.81 RT	34.45	9	657.87	12	3.01	D-CB-12S	1			CAP ONLY
TOTALS									2	1	1	

NOTES:

1.) See Sheet 10, 10A, 10B, 10C for Betsy Pack Road details.

2.) The areas of the traffic islands are greater than 400 S.F. Use 12" diagonal chevron markings per T-M-3.

3.) Use standard drawing STD-15-16A at the inlet and outlet of the proposed box culvert. This will allow low flow directed into the Western two barrels.

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00035999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 13+00 TO STA. 26+00

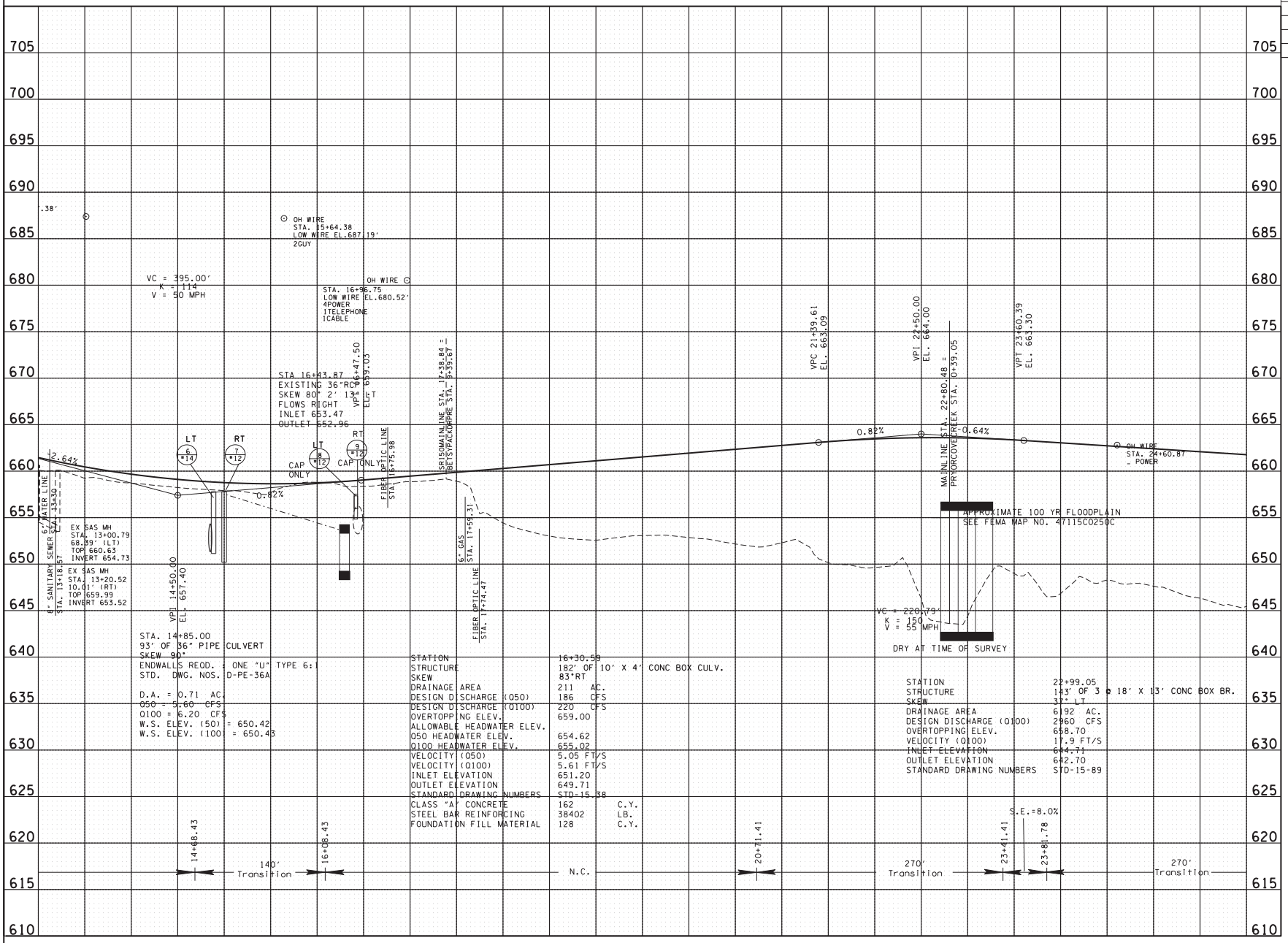
SCALE: 1"= 50'

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

6-JUN-2015 10:47
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\005B_proposed.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	5C
CONST.	2015	STP-150(4)	5C

Rev. 10/31/2013
Update drainage structures & superelevation rates.



STATION	16+30.58	
STRUCTURE	182' OF 10' X 4' CONC BOX CULV.	
SKEW	83°RT	
DRAINAGE AREA	211 AC.	
DESIGN DISCHARGE (Q50)	186 CFS	
DESIGN DISCHARGE (Q100)	220 CFS	
OVERTOPPING ELEV.	659.00	
ALLOWABLE HEADWATER ELEV.		
Q50 HEADWATER ELEV.	654.62	
Q100 HEADWATER ELEV.	655.02	
VELOCITY (Q50)	5.05 FT/S	
VELOCITY (Q100)	5.61 FT/S	
INLET ELEVATION	651.20	
OUTLET ELEVATION	649.71	
STANDARD DRAWING NUMBERS	STD-15-38	
CLASS "A" CONCRETE	162	C.Y.
STEEL BAR REINFORCING	38402	LB.
FOUNDATION FILL MATERIAL	128	C.Y.

STATION	22+99.05
STRUCTURE	143' OF 3 @ 18' X 13' CONC BOX BR.
SKEW	37° LT
DRAINAGE AREA	6.92 AC.
DESIGN DISCHARGE (Q100)	2960 CFS
OVERTOPPING ELEV.	658.70
VELOCITY (Q100)	17.9 FT/S
INLET ELEVATION	644.71
OUTLET ELEVATION	642.70
STANDARD DRAWING NUMBERS	STD-15-89

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 13+00 TO STA. 26+00

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

16-JUN-2015 10:47
\\J02WF01\tdot\state.tn.us\02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\005C_profile.SHT

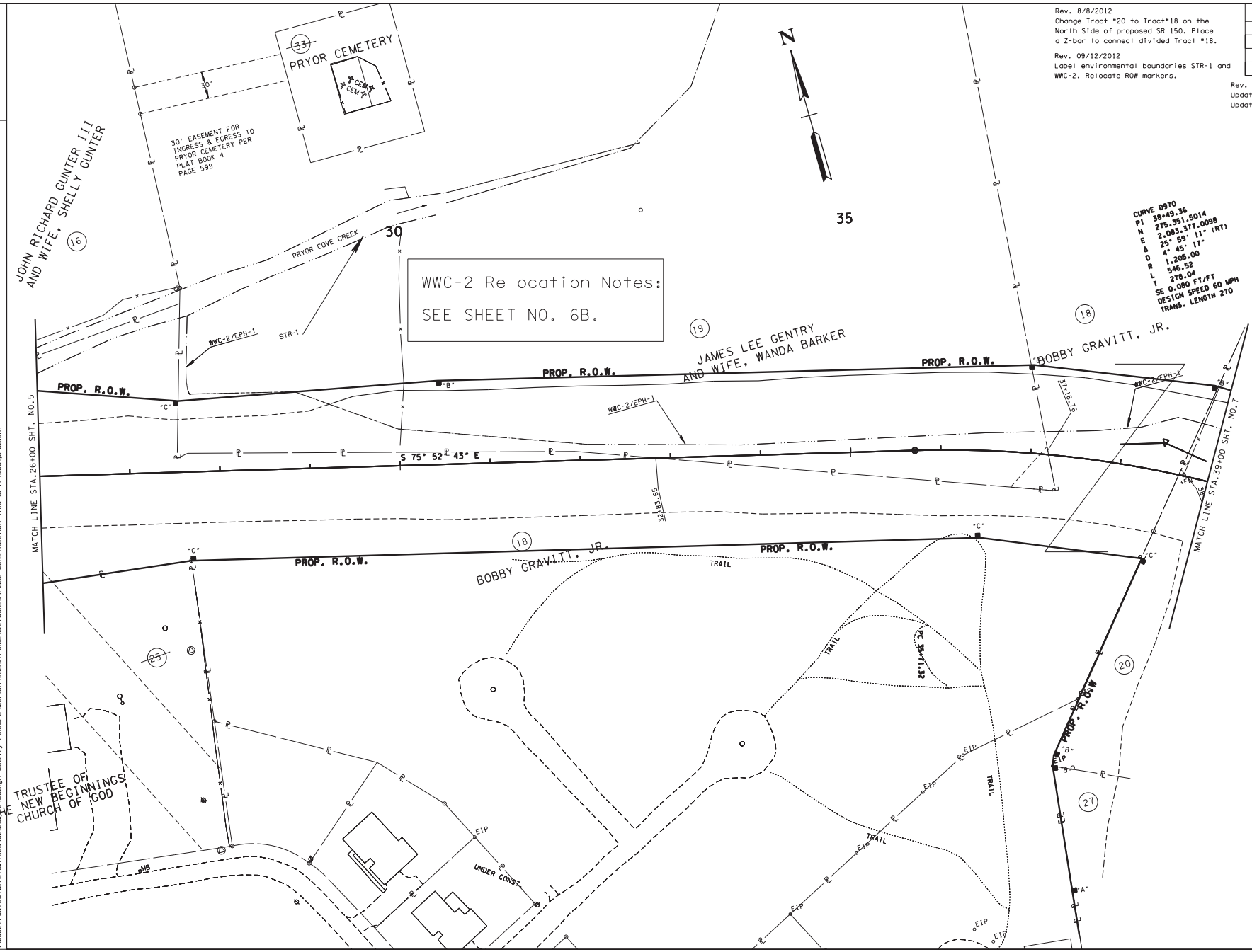
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

Rev. 8/8/2012
Change Tract #20 to Tract#18 on the North Side of proposed SR 150. Place a Z-bar to connect divided Tract #18.

Rev. 09/12/2012
Label environmental boundaries STR-1 and WWC-2. Relocate ROW markers.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	6
CONST.	2015	STP-150(4)	6

Rev. 10/31/2013
Update ROW take for Tract's 18, 19, 20 & 27.
Update property owner for Tract 16.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00025999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.26 +00 TO STA.39+00

SCALE: 1"=50'

6-JUN-2015 10:47
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\006_pres.SHT

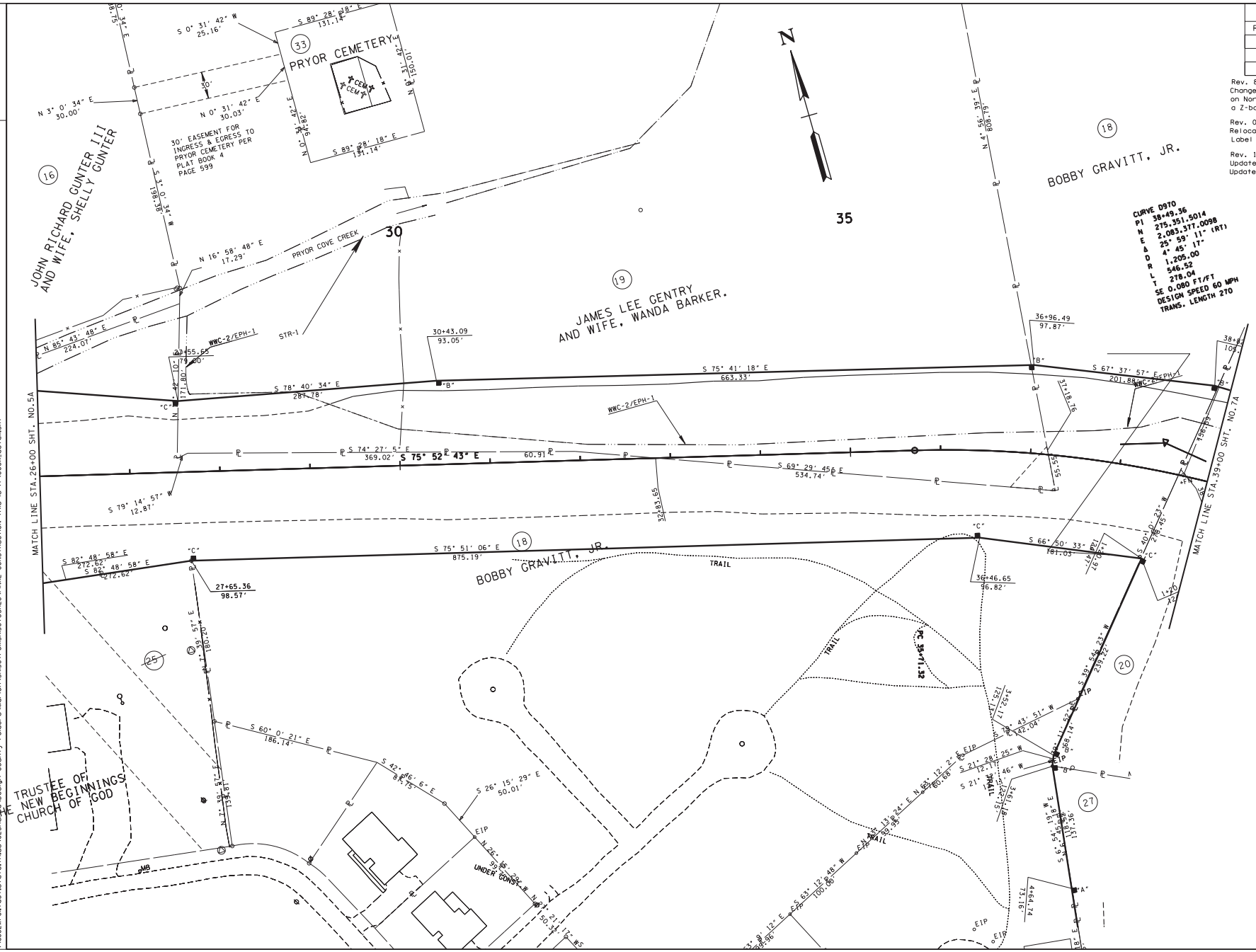
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	6A
CONST.	2015	STP-150(4)	6A

Rev. 8/8/2012
Change Tract #20 to Tract #18 on North Side of proposed SR 150. Place a Z-bar to connect divided Tract #18.

Rev. 09/12/2012
Relocate ROW markers and correct over write. Label environmental boundaries.

Rev. 10/31/2013
Update ROW take for Tract's 18, 19, 20 & 27. Update property owner for Tract 16.



SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 26+00 TO STA. 39+00

SCALE: 1"= 50'

6-JUN-2015 10:47
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\006A_detail.SHT

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

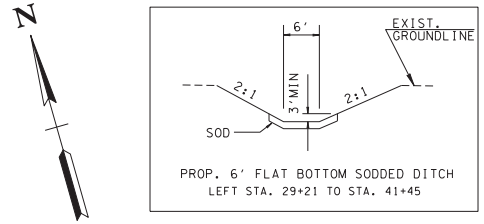
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	6B
CONST.	2015	STP-150(4)	6B

Rev. 09/12/2012
Label environmental boundary STR-1 and WWC-2. Add WWC-2 relocation notes.

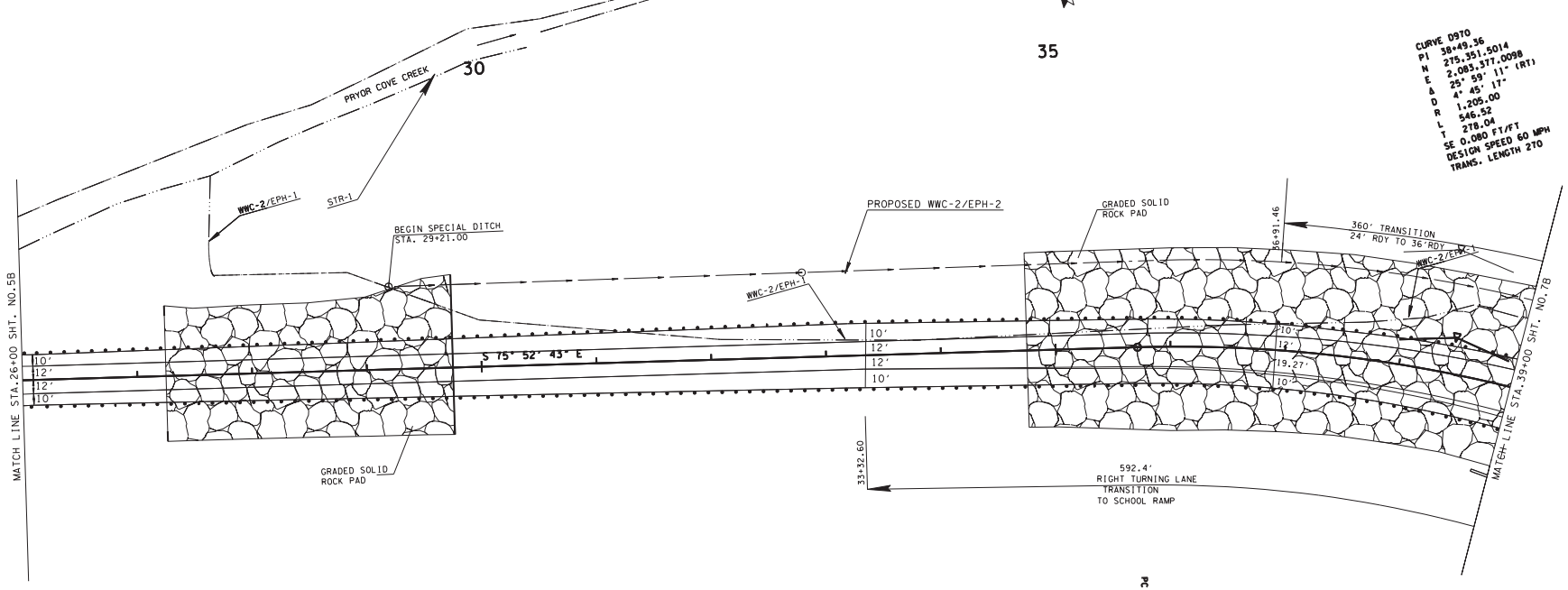
Rev. 10/31/2013
Revise proposed relocated WWC-2 & profile. Add typical detail.

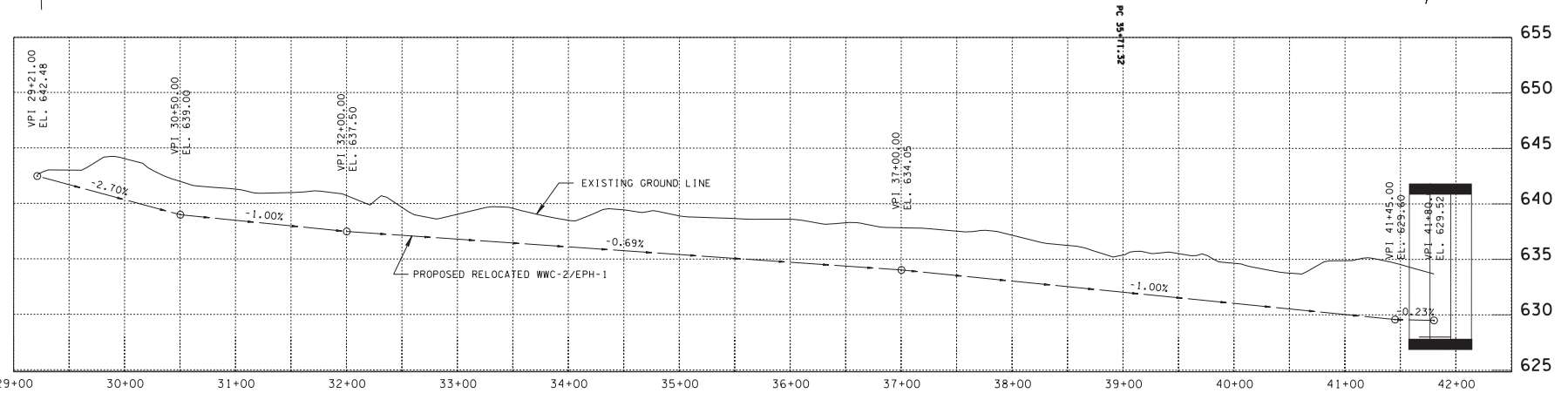
WWC-2/EPH-1 Relocation Notes:

1) Relocate existing WWC-2/EPH-1 from Sta. 29+21 to Sta. 41+45.
2) Relocate WWC-2/EPH-1 to the North side of proposed SR 150, between the proposed ROW and toe of the fills.
3) Maintain the 1% slope, 3' depth, and 6' channel bottom of the existing WWC-2/EPH-1.
4) Profile of existing ground line in WWC-2/EPH-1 proposed relocation path. (Scale: None)



PROP. 6' FLAT BOTTOM SODDED DITCH
LEFT STA. 29+21 TO STA. 41+45





SEALED BY

ROBERT W. RODDEN
REGISTERED ENGINEER
& AGRICULTURE
COMMISSIONER
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

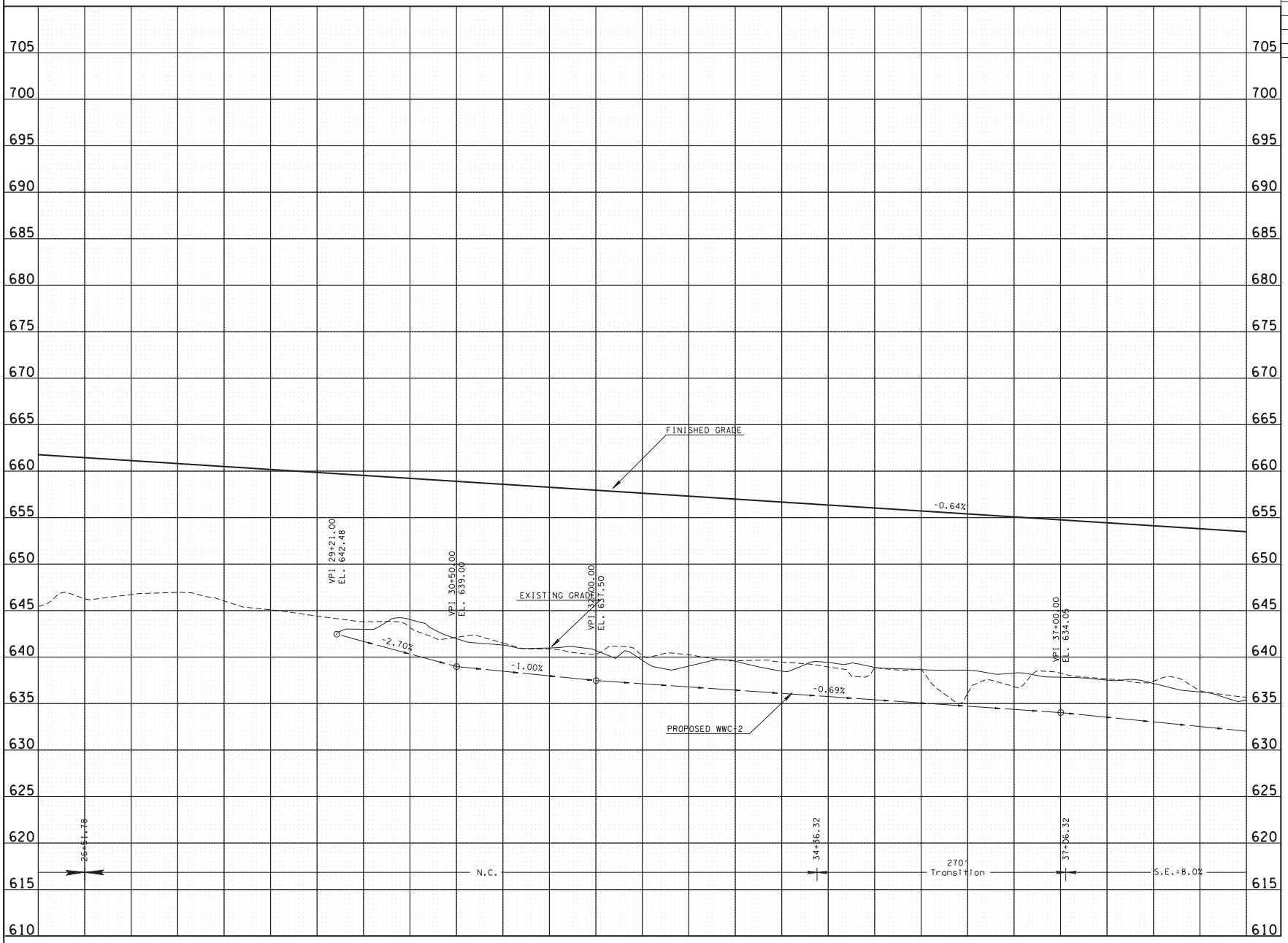
STA. 26+00 TO STA. 39+00

SCALE: 1"= 50'

16-JUN-2015 10:47
\\J02WF01\tdotstate.tn.us\J02Shared\Design County Folders\Marion\SR50fromSR51toSR28\FINAL CONSTRUCTION This is i:\0068_proposed.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	6C
CONST.	2015	STP-150(4)	6C

Rev. 10/31/2013
Update drainage structures & superelevation rates.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0002599
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

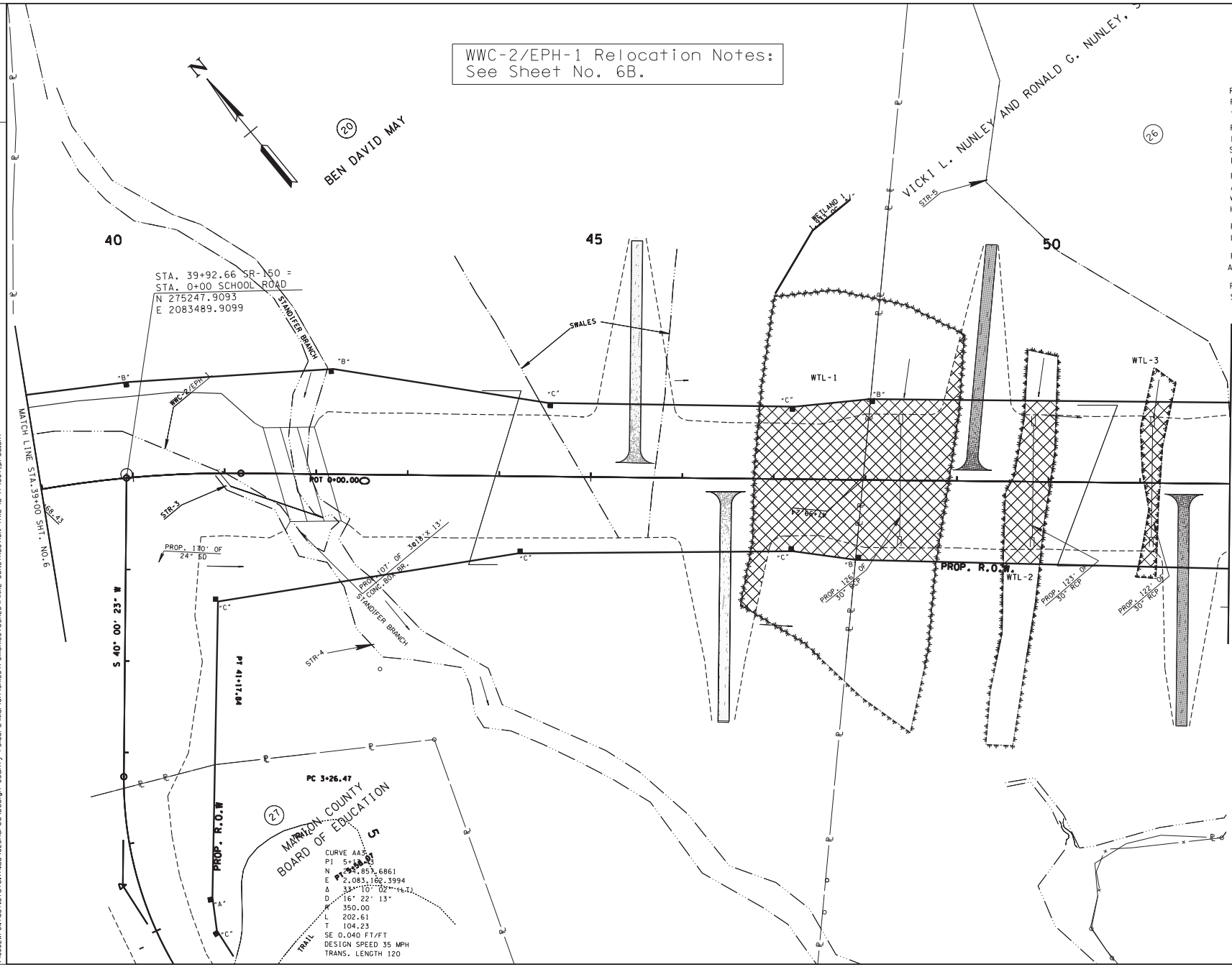
PROFILE

STA. 26+00 TO STA. 39+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

6-JUN-2015 10:47
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\006C_profile.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	7
CONST.	2015	STP-150(4)	7


WWC-2/EPH-1 Relocation Notes:
See Sheet No. 6B.

Revised 06/27/2012
Relocate Tract 26 left private drive from Sta.48+50 to Sta. 49+16.

Rev. 09/12/2012
Label environmental boundaries STR-3, STR-4, STR-5, WWC-2 and swales. Relocate ROW markers.

Revised 10/11/2012
Add wetlands WTL-1, WTL-2, WTL-3 wetlands impacts, cross drains, and High Visibility Fencing.

Revised 10/31/2013
Update ROW take for Tract's 20, 26 & 27.

Revised 11/20/2013
Acquire additional ROW for bridge rip-rap

Rev. 12/06/2013
Show driveway slopes.

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.818 AC.
	VOLUME OF PERMANENT IMPACT = 1321 C.Y.

LEGEND	WETLAND IMPACTS (WTL-2)
	AREA OF PERMANENT IMPACT = 0.156 AC.
	VOLUME OF PERMANENT IMPACT = 253 C.Y.

LEGEND	WETLAND IMPACTS (WTL-3)
	AREA OF PERMANENT IMPACT = 0.081 AC.
	VOLUME OF PERMANENT IMPACT = 132 C.Y.

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00003890
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 39+00 TO STA. 52+00

SCALE: 1"= 50'

6-JUN-2015 10:47
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is 1+\007_pres.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	7A
CONST	2015	STP-150(4)	7A

Revised 06/27/2012
Relocate Tract 26 left private drive from Sta. 48+50 to Sta. 49+16.

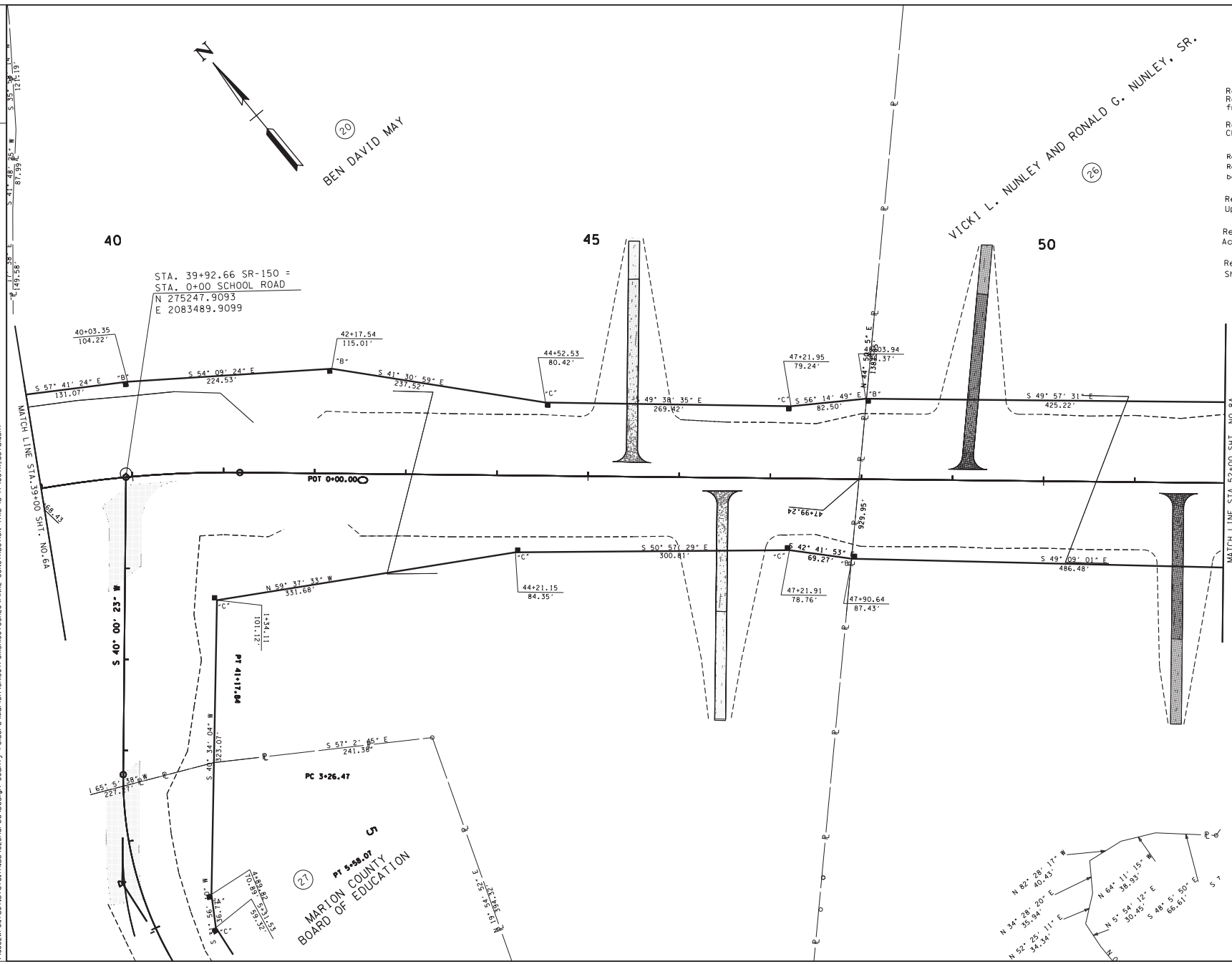
Revised 8/8/2012
Change Tract #20 to #26.

Rev. 09/12/2012
Relocate ROW markers. Label environmental boundaries.

Revised 10/31/2013
Update ROW take for Tract's 20, 26 & 27.

Revised 11/20/2013
Acquire additional ROW for bridge rip-rap

Rev. 12/06/2013
Show driveway slopes.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 39+00 TO STA. 52+00

SCALE: 1"= 50'

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

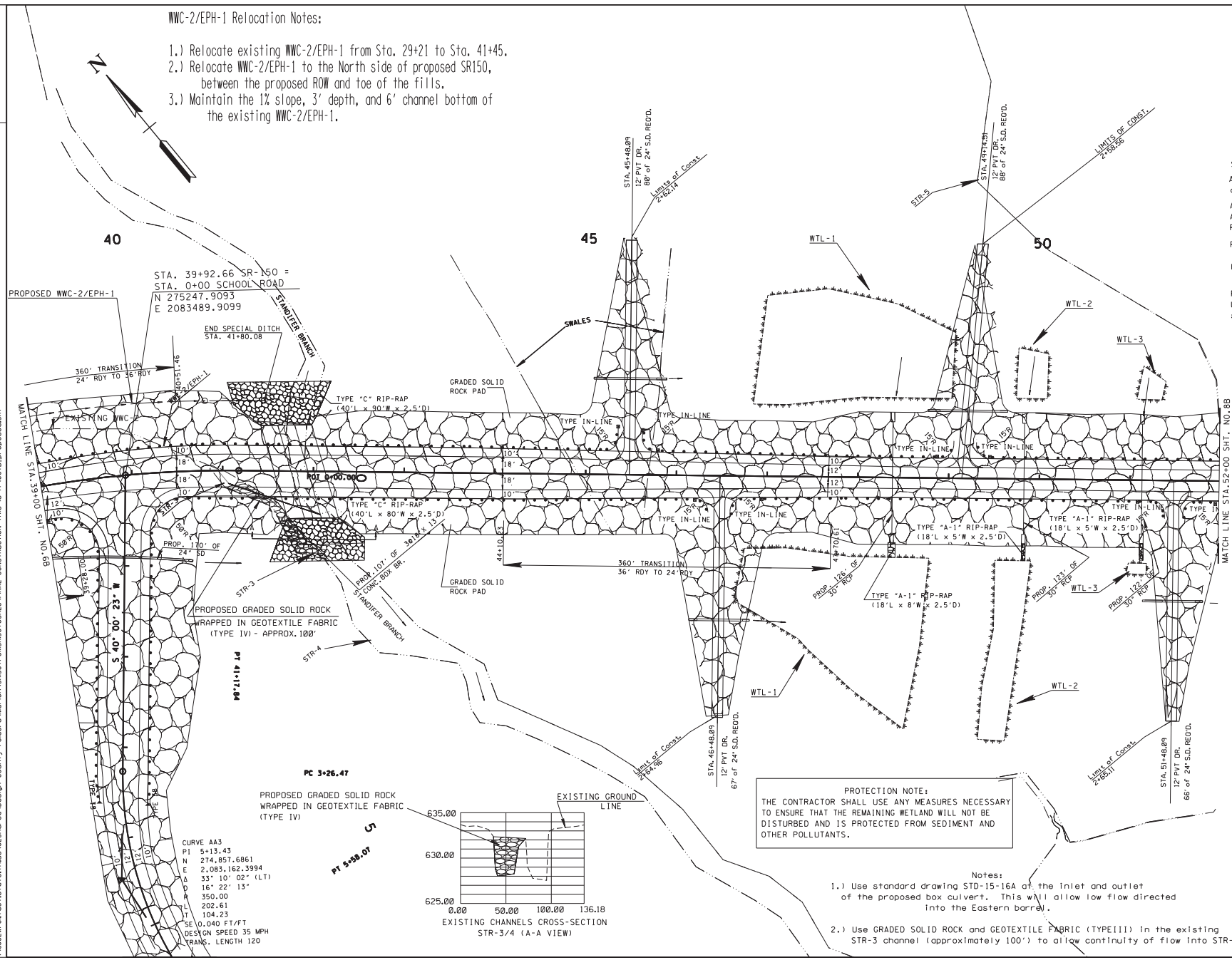
6-JUN-2015 10:47
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\007A_detail.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	7B
CONST.	2015	STP-150(4)	7B

WWC-2/EPH-1 Relocation Notes:

1.) Relocate existing WWC-2/EPH-1 from Sta. 29+21 to Sta. 41+45.
2.) Relocate WWC-2/EPH-1 to the North side of proposed SR150, between the proposed ROW and toe of the fills.
3.) Maintain the 1% slope, 3' depth, and 6' channel bottom of the existing WWC-2/EPH-1.



Revised 06/27/2012
Relocate Tract 26's left private drive at Sta. 48+50 to Sta. 49+16

Revised 09/12/2012
Label environmental boundaries STR-3, STR-4, STR-5, WWC-2, and swales.

Add note to use STD-15-16A at the inlet and outlet of the proposed box culvert.

Add WWC-2 relocation and notes.
Add detail for placing Graded Solid Rock fill in STR-3.

Revised 10/11/2012
Add wetlands WTL-1, WTL-2, WTL-3, High Visibility Fencing, and environmental protection note.

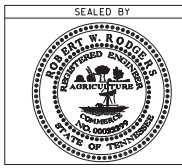
Revised 10/31/2013
Update drainage structures. Revise school ramp alignment. Update ramp stations.

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

Notes:
1.) Use standard drawing STD-15-16A at the inlet and outlet of the proposed box culvert. This will allow low flow directed into the Eastern barrel.

2.) Use GRADED SOLID ROCK and GEOTEXTILE FABRIC (TYPEIII) in the existing STR-3 channel (approximately 100') to allow continuity of flow into STR-4.

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 39+00 TO STA. 52+00

SCALE: 1"= 50'

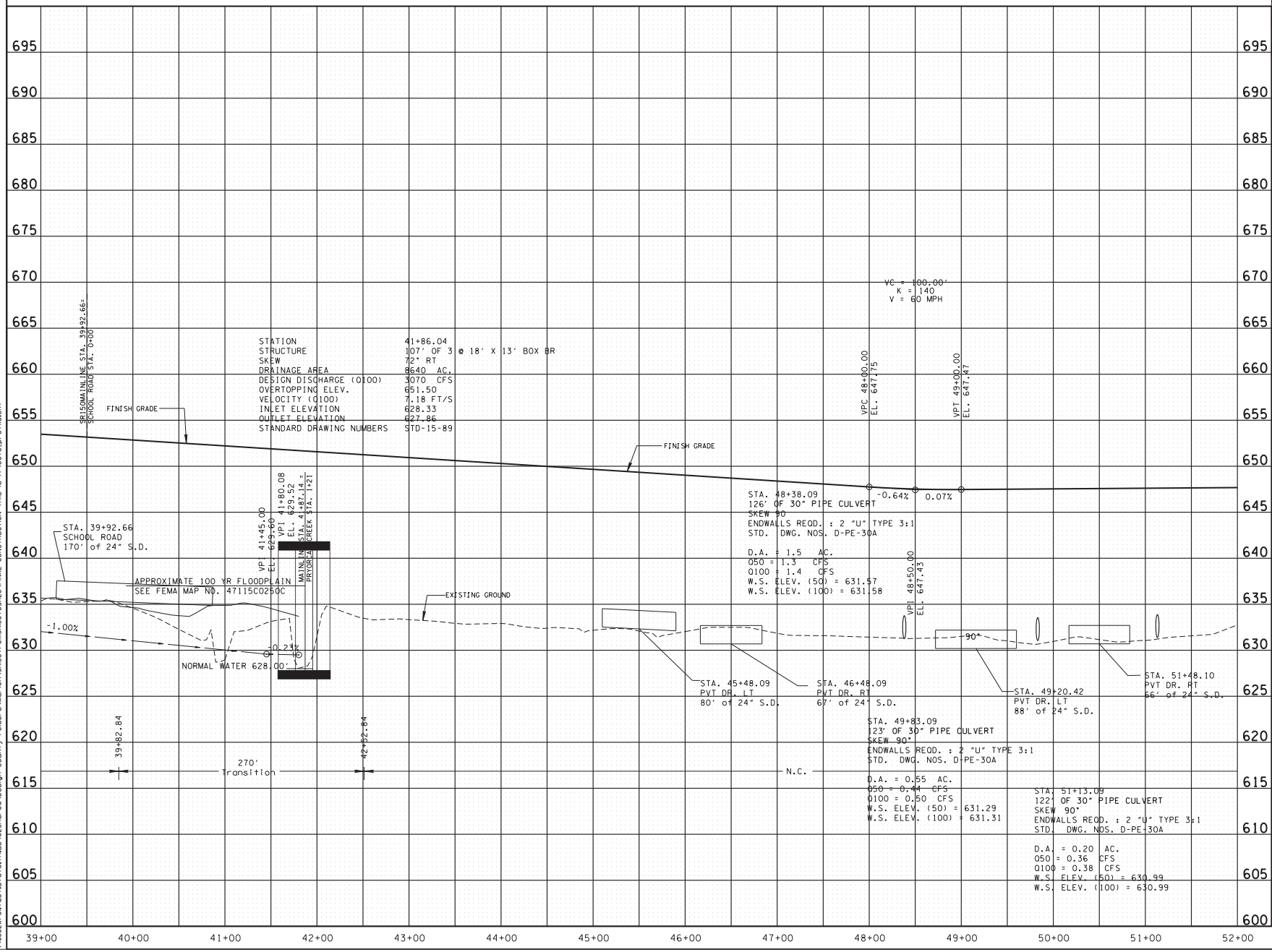
6-JUN-2015 10:47
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\007B.proposed.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W	2012	STP-150(4)	7C
CONST.	2015	STP-150(4)	7C

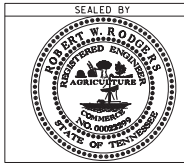
Revised 06/27/2012
Relocate 24" side drain from Sta. 48+50 to Sta. 49+16.

Revised 10/11/2012
Add cross drains Sta. 48+40, 49+85, and 51+15.

Rev. 10/31/2013
Update drainage structures & superelevation rates.



SEALED BY



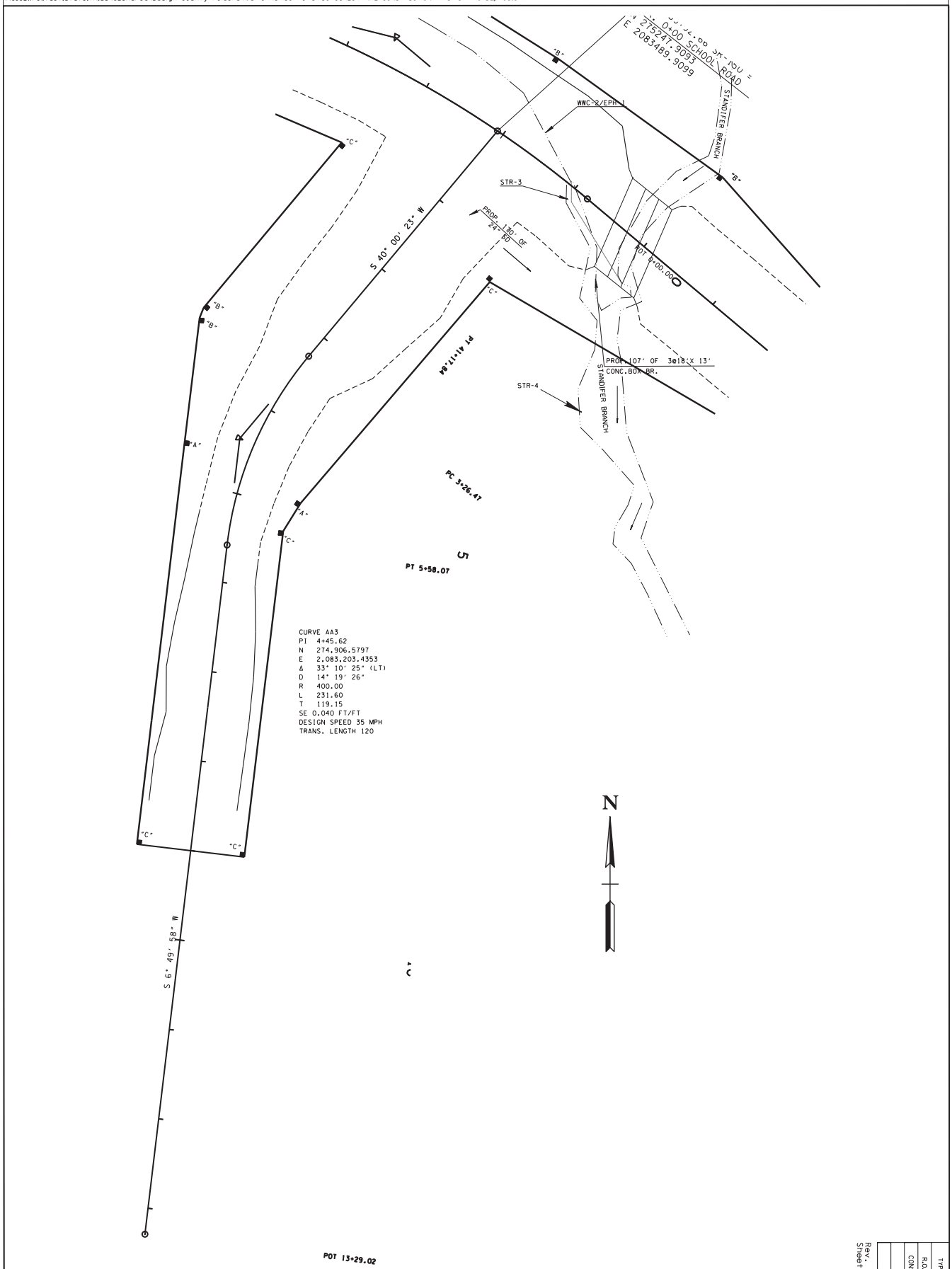
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 39+00 TO STA. 52+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

6-JUN-2015 10:47
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\007C_profile.SHT

6-JUN-2015 10:48
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\07D_pres.sht



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	7D
CONST.	2015	STP-150(4)	7D

Rev. 10/31/2013
Sheet added.

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
OCTOBER 1, 2013

SCHOOL RAMP

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

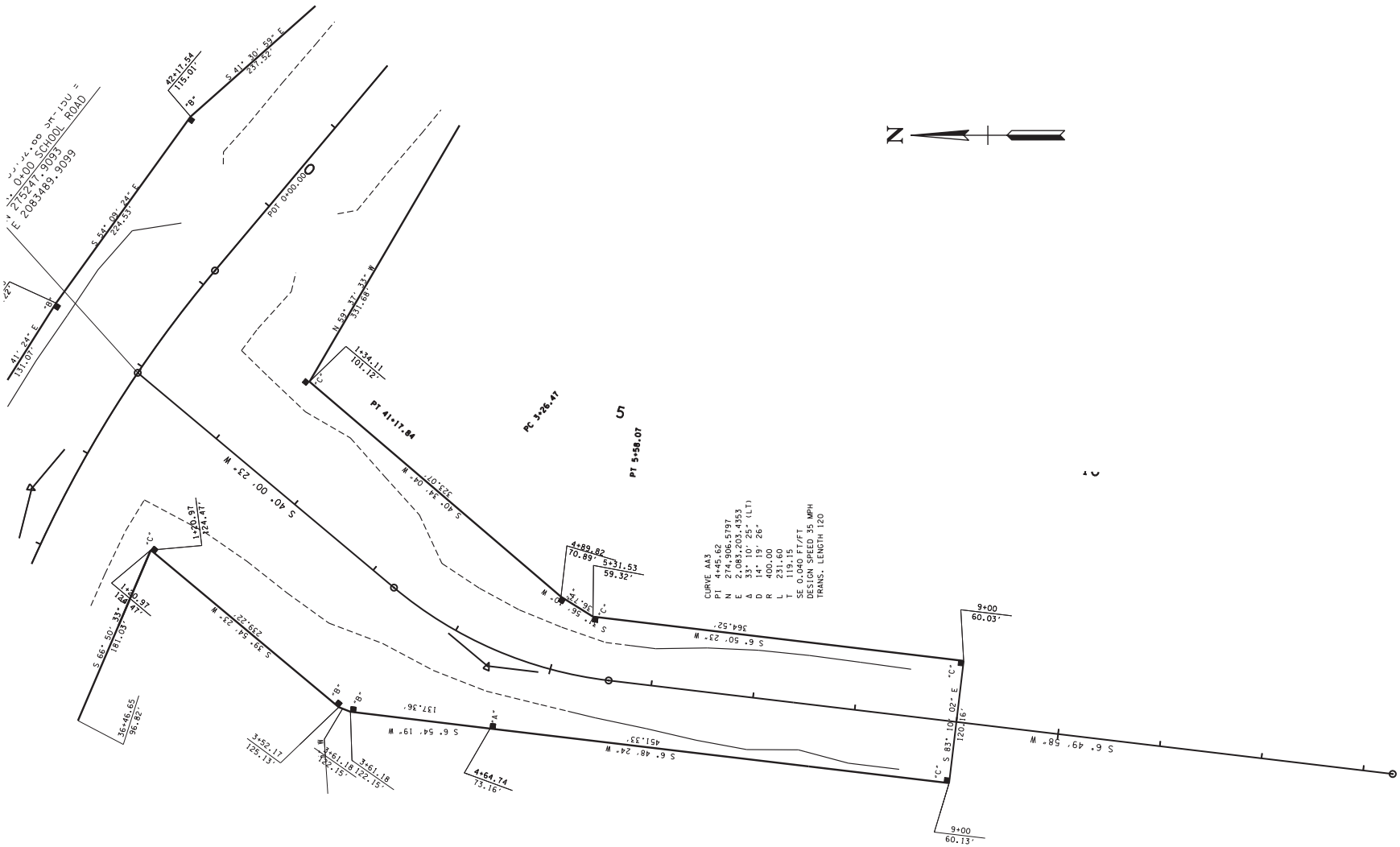
PRESENT LAYOUT

STA. 0+00 TO STA. 13+00

SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W..	2013	STP-150(4)	7E
CONST.	2015	STP-150(4)	7E

Rev. 10/31/2013
Sheet added.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE

SCHOOL RAMP

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

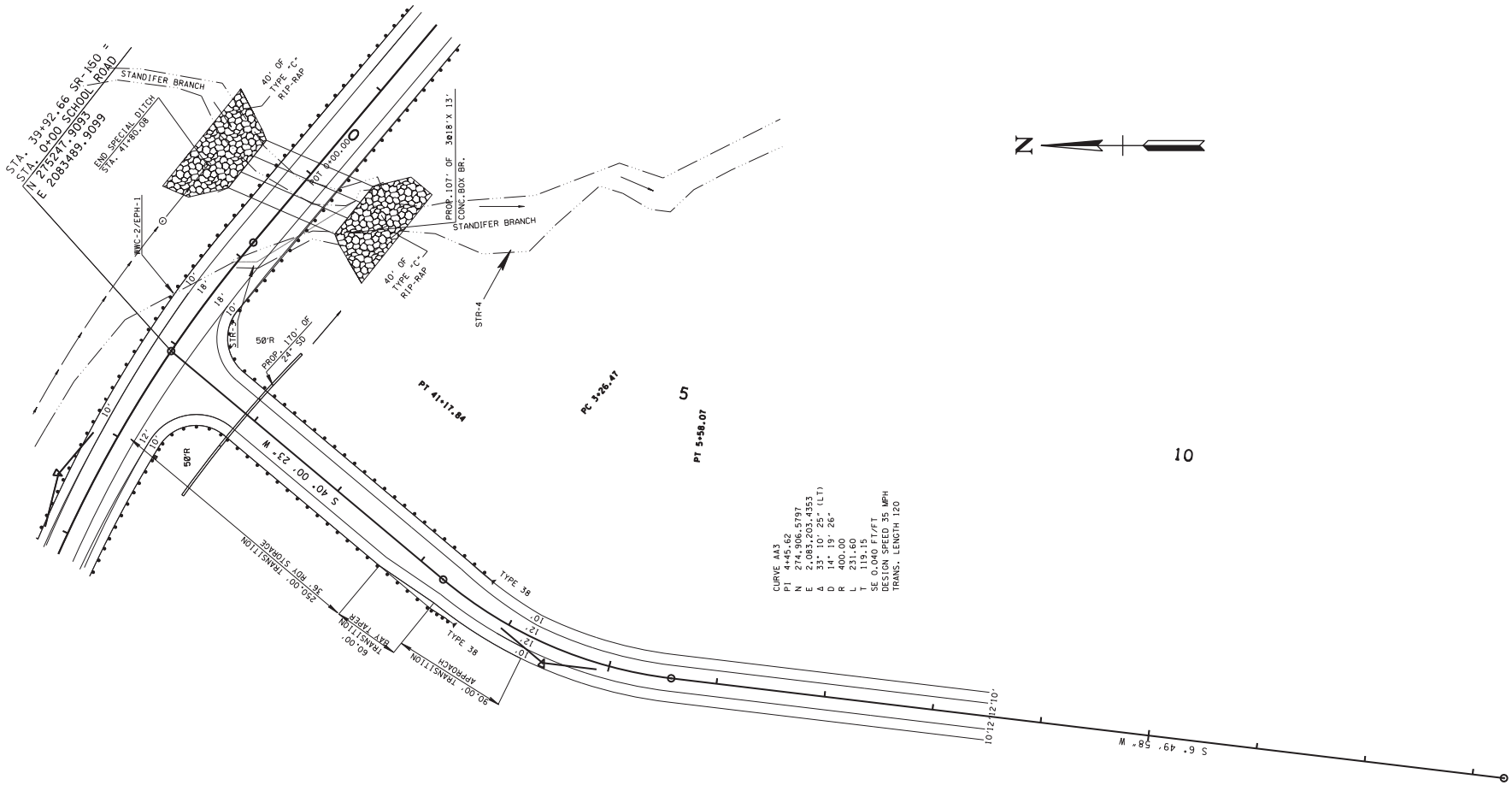
STA. 0+00 TO STA. 13+00

SCALE: 1"= 50'

6-JUN-2015 10:48
\\JO2WF01\rdot\state.tn.us\025shared\Design County Folders\Marion\SR60fromSR50toSR28\FINAL CONSTRUCTION This is 1:\07E_detail.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W..	2013	STP-150(4)	7F
CONST.	2015	STP-150(4)	7F

Rev. 10/31/2013
Sheet added.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0009859
STATE OF TENNESSEE

SCHOOL RAMP

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

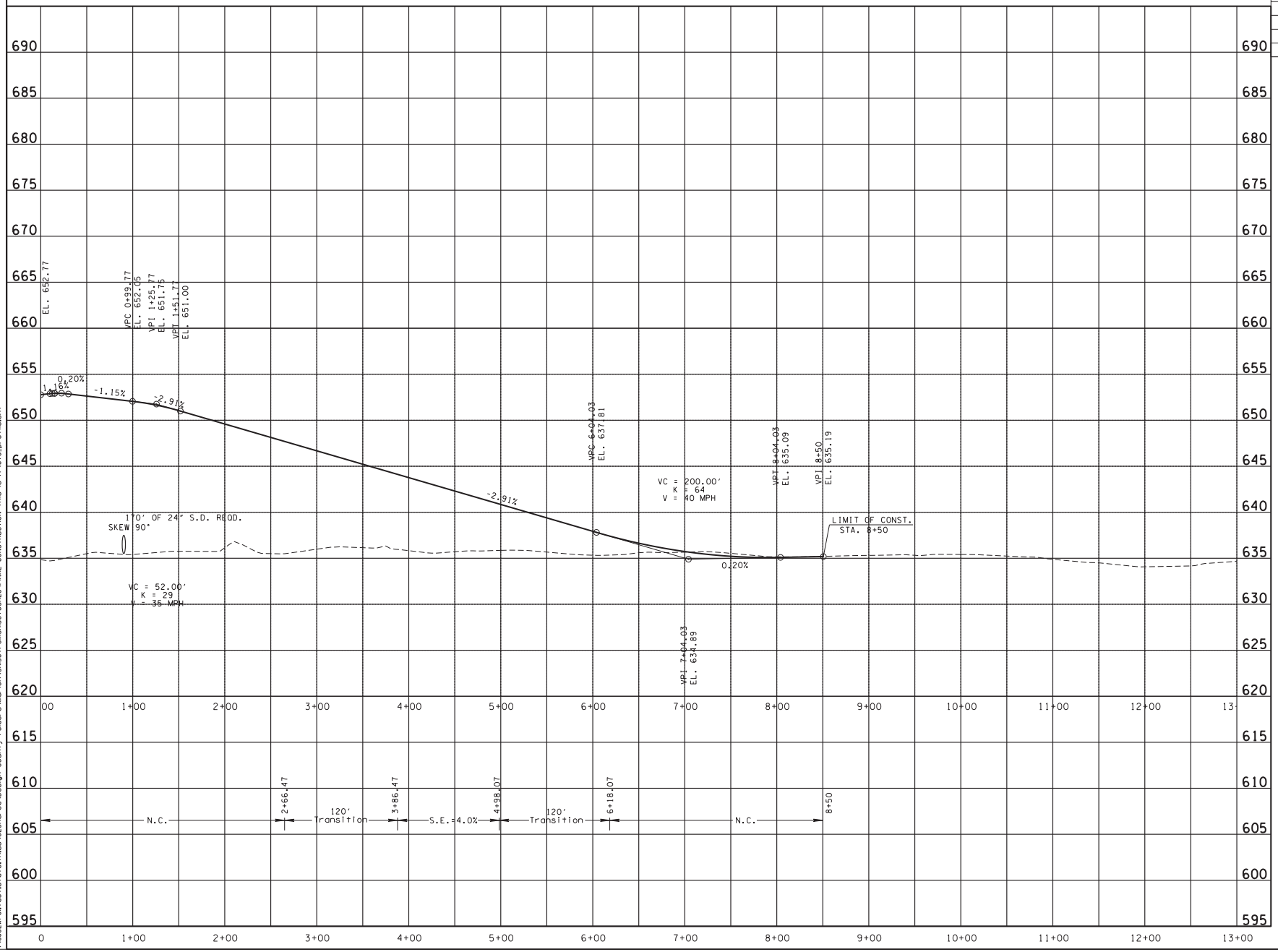
STA. 0+00 TO STA. 13+00

SCALE: 1"= 50'

6-JUN-2015 10:48
\\J02\FOL1\dot\state.tn.us\025shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is 1+\07F_proposed.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	7G
CONST.	2015	STP-150(4)	7G

Rev. 10/31/2013
Sheet added.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00028579
STATE OF TENNESSEE

SCHOOL RAMP

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 0+00 TO STA. 13+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

6-JUN-2015 10:48
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\07G_profile.sht

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	8
CONST.	2015	STP-150(4)	8

Rev. 09/12/2012
Label environmental boundaries STR-5 and WWC-3.

Rev. 10/11/2012
Add wetlands WTL-4, WTL-5, wetland impacts, and High Visibility Fencing.

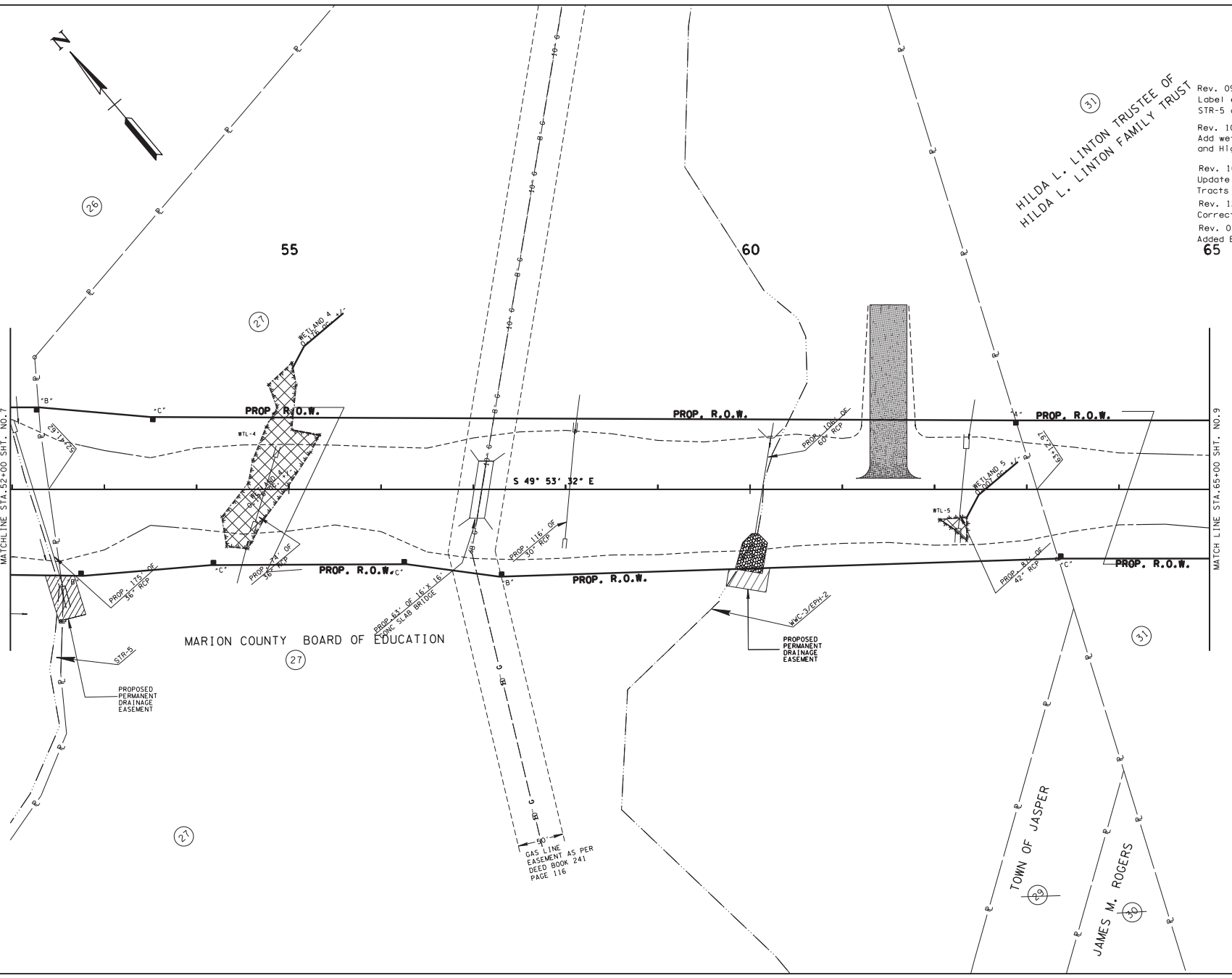
Rev. 10/31/2013
Update ROW take & drainage easement for Tracts 26, 27 & 31.

Rev. 12/06/2013
Correct slab bridge dimensions.

Rev. 01/16/2015
Added Bus.Ent. Sta.61+50 LT.

LEGEND	WETLAND IMPACTS (WTL-4)
	AREA OF PERMANENT IMPACT = 0.176 AC.
	VOLUME OF PERMANENT IMPACT = 284 C.Y.

LEGEND	WETLAND IMPACTS (WTL-5)
	AREA OF PERMANENT IMPACT = 0.007 AC.
	VOLUME OF PERMANENT IMPACT = 11.3 C.Y.



SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 52+00 TO STA. 65+00

SCALE: 1"= 50'

6-JUN-2015 10:47
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\008_pres.SHT

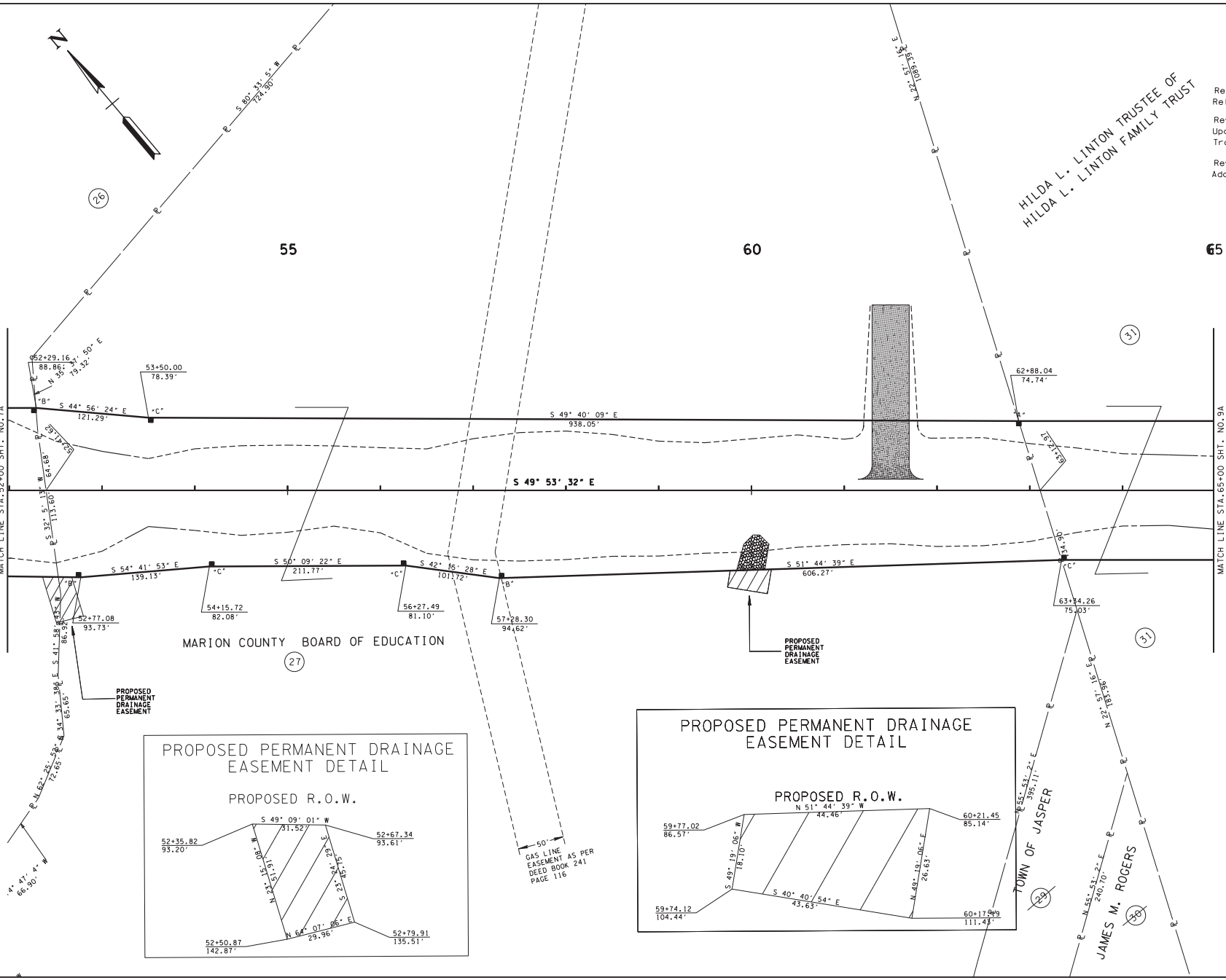
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	8A
CONST.	2015	STP-150(4)	8A

Rev. 09/12/2012
Relocate ROW markers.

Rev. 10/31/2012
Update ROW take & drainage easement for Tracts 26, 27 & 31. Add easement detail.

Rev. 01/16/2015
Added Bus. Ent.Sta.61+50 LT



PROPOSED PERMANENT DRAINAGE EASEMENT DETAIL

PROPOSED R.O.W.

PROPOSED PERMANENT DRAINAGE EASEMENT DETAIL

PROPOSED R.O.W.

SEALED BY

ROBERT W. ROGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

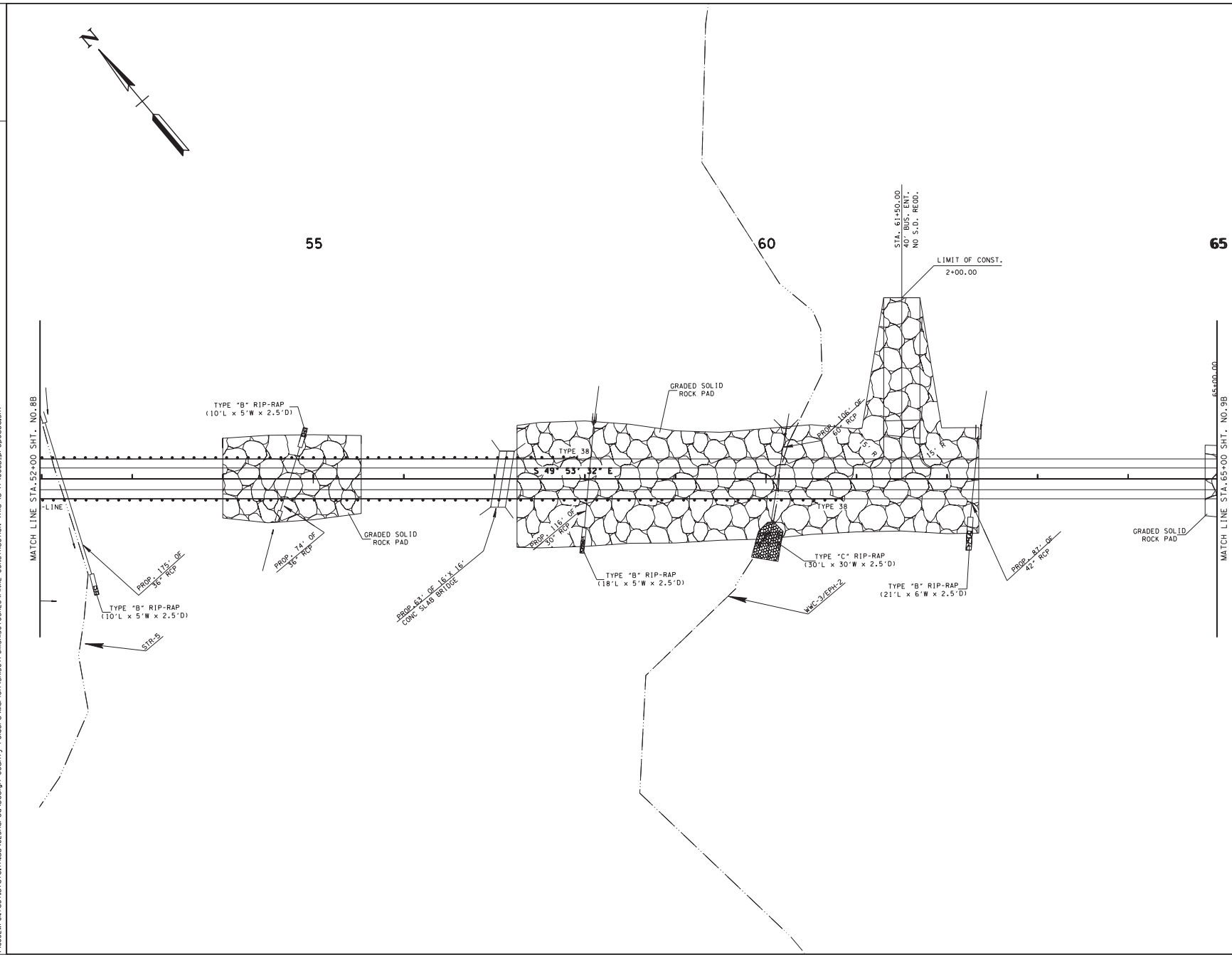
R.O.W. DETAILS

STA. 52+00 TO STA. 65+00

SCALE: 1"= 50'

16-JUN-2015 10:47
\\J02WF01\tdot\state.tn.us\J02\Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is i:\008A_detail.SHT

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



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	8B
CONST.	2015	STP-150(4)	8B

Rev. 09/12/2012
Label environmental boundaries
STR-5 and WWC-3.

Rev. 10/11/2012
Label environmental boundaries
WTL-4 , and High Visibility Fencing

Rev. 10/31/2013
Update drainage structures.

Rev. 12/06/2013
Correct slab bridge dimensions.

Rev. 01/16/2015
Added Bus.Ent. Sta.61+50 LT

SEALED BY

ROBERT W. ROGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

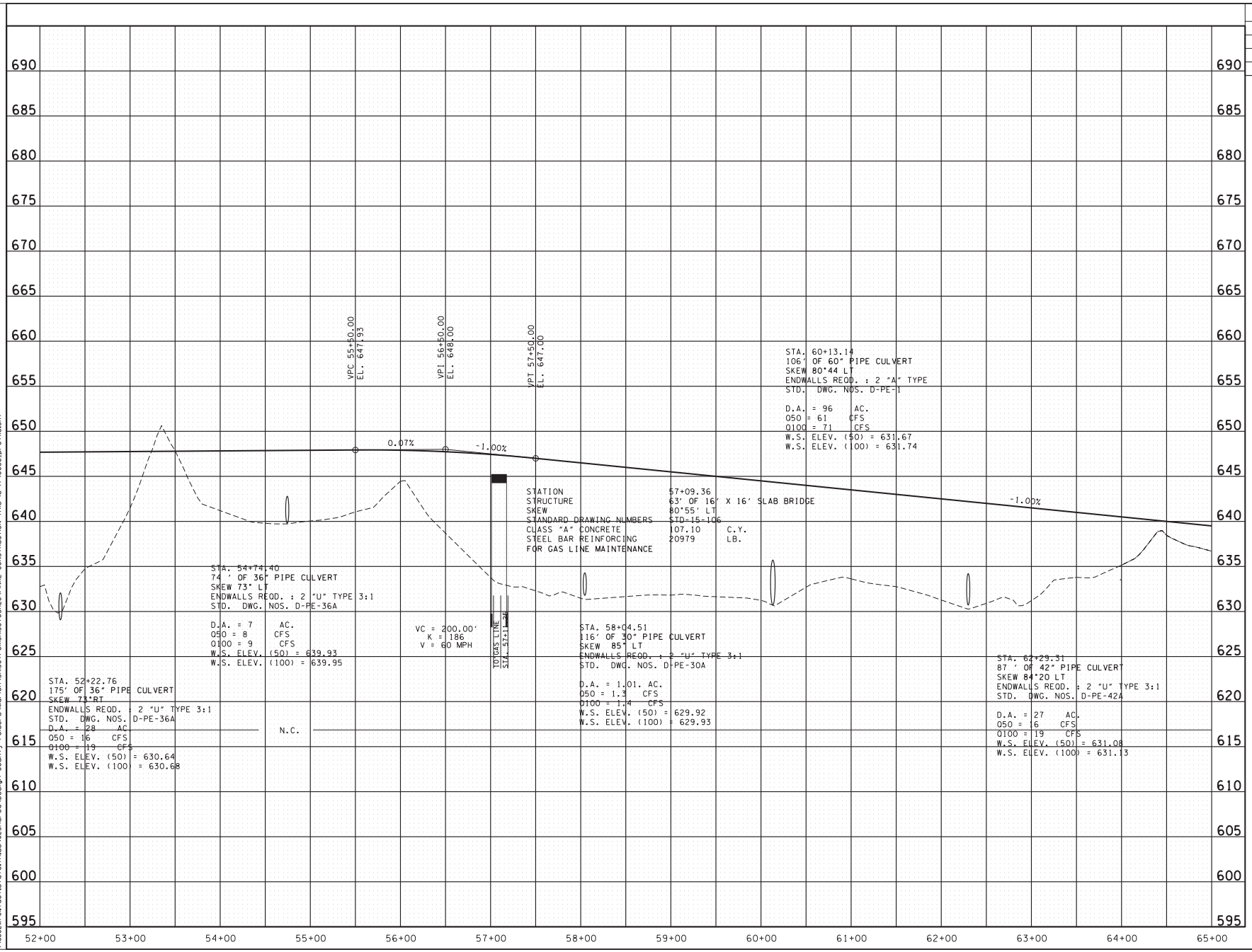
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 52+00 TO STA. 65+00

SCALE: 1"= 50'

16-JUN-2015 10:48
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is i:\008B_proposed.SHT



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	8C
CONST.	2015	STP-150(4)	8C

Rev. 10/31/2013
Update drainage structures & superelevation rates.

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMISSION NO. 0000000
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 52+00 TO STA. 65+00

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

16-JUN-2015 10:48
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\008C_profile.SHT

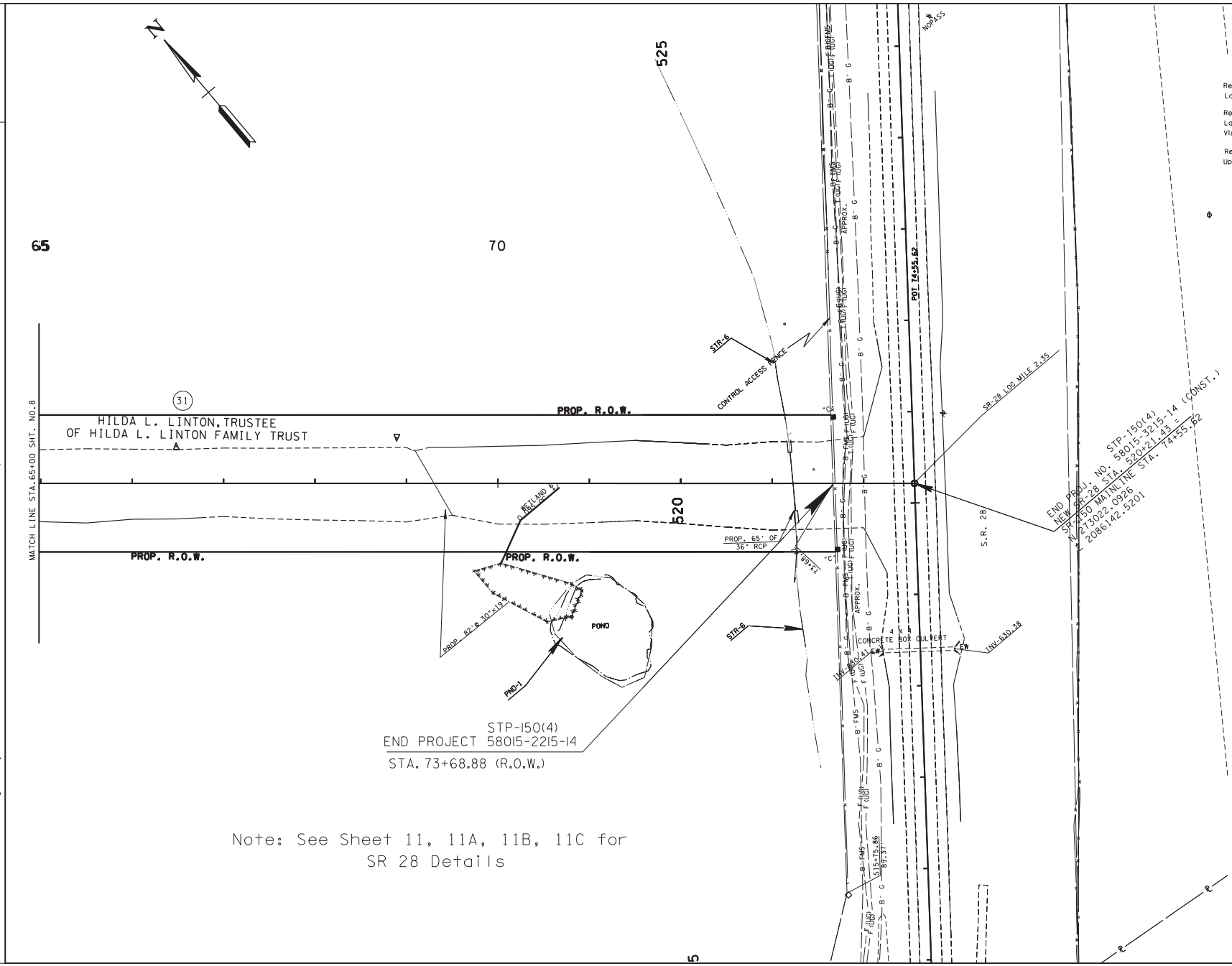
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	9
CONST.	2015	STP-150(4)	9

Rev. 09/12/2012
Label environmental boundaries PND-1, STR-6, and WWC-4.

Rev. 10/11/2012
Label environmental boundary WTL-6 and add High Visibility Fencing.

Rev. 10/31/2013
Update end project.



SEALED BY

ROBERT W. RODDEN
REGISTERED ENGINEER
AGRICULTURE
NUMBER
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 65+00 TO STA. 75+00

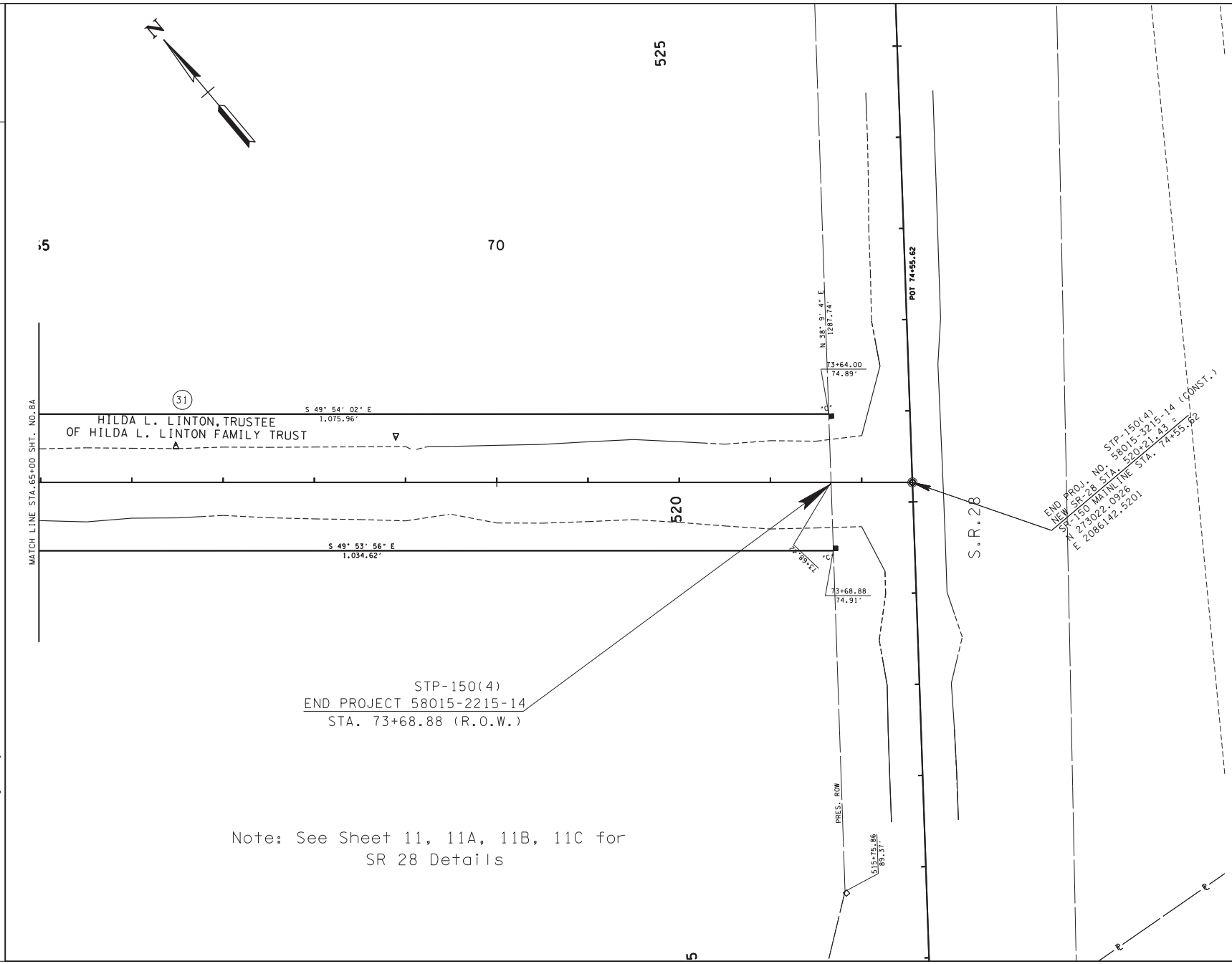
SCALE: 1"= 50'

6-JUN-2015 10:48
\\J02WF01.tdot.state.tn.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is 1\009_pres.SHT

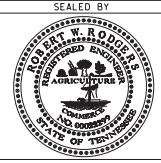
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	9A
CONST.	2015	STP-150(4)	9A

Rev. 10/31/2013
Update end project.



SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 65+00 TO STA. 75+00

SCALE: 1"= 50'

6-JUN-2015 10:48
\\J02WF01.tdot.state.tn.us\J02Shared\Design County Folders\Marion\SR150fromSR50toSR28\FINAL CONSTRUCTION This is i:\009A_detail.SHT

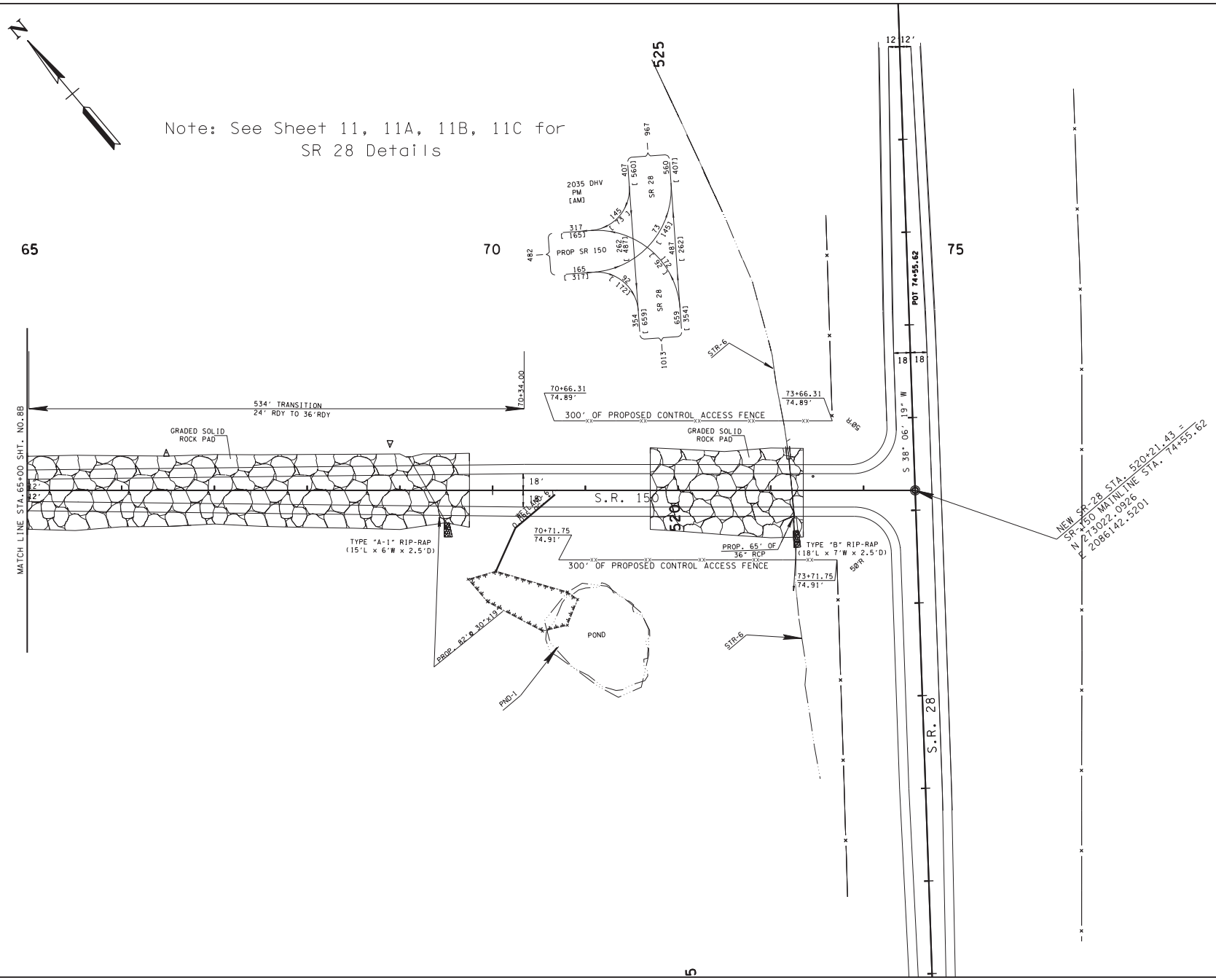
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	9B
CONST.	2015	STP-150(4)	9B

Rev. 09/12/2012
Label environmental boundaries PND-1, STR-6, and WWC-4.

Rev. 10/11/2012
Label environmental boundaries WTL-6 and add High Visibility Fencing.

Rev. 10/31/2013
Update drainage structures. Delete special ditch & details. Update end project.



SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

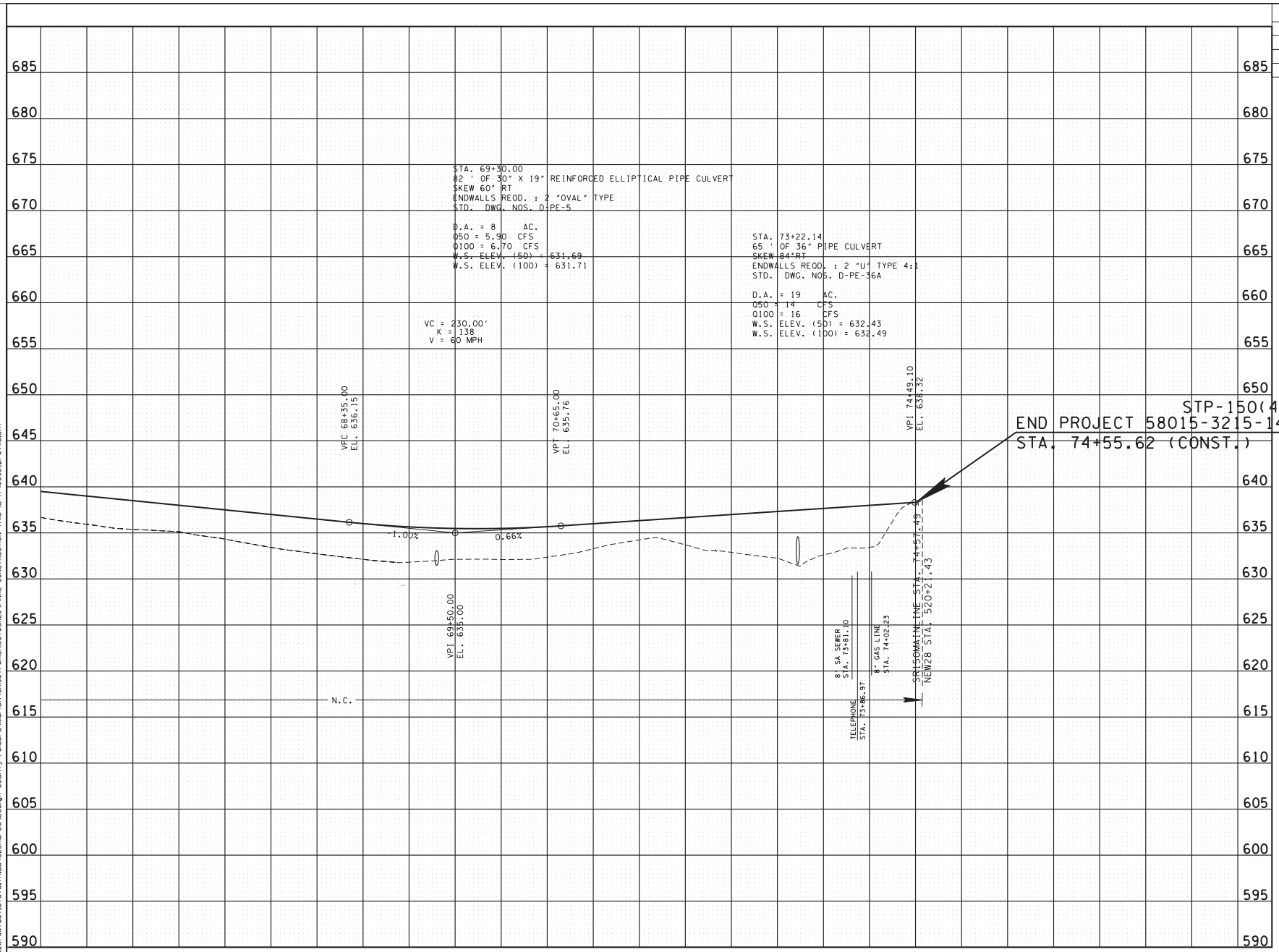
STA. 65+00 TO STA. 75+00

SCALE: 1"= 50'

6-JUN-2015 10:48
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is i:\009B_proposed.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	9C
CONST.	2015	STP-150(4)	9C

Rev. 10/31/2013
Update drainage structures & superelevation rates.



SEALED BY

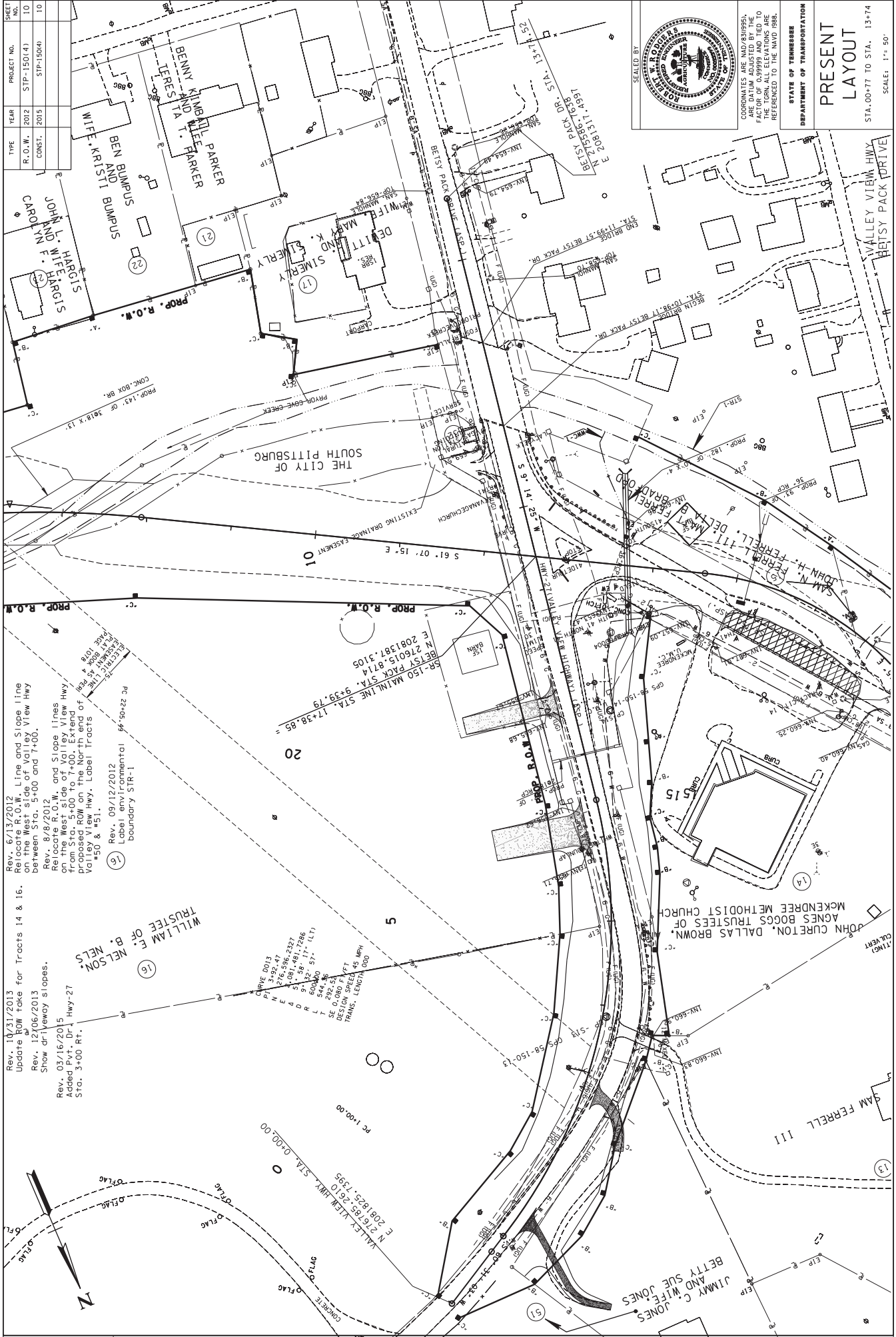
ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00052999
STATE OF TENNESSEE

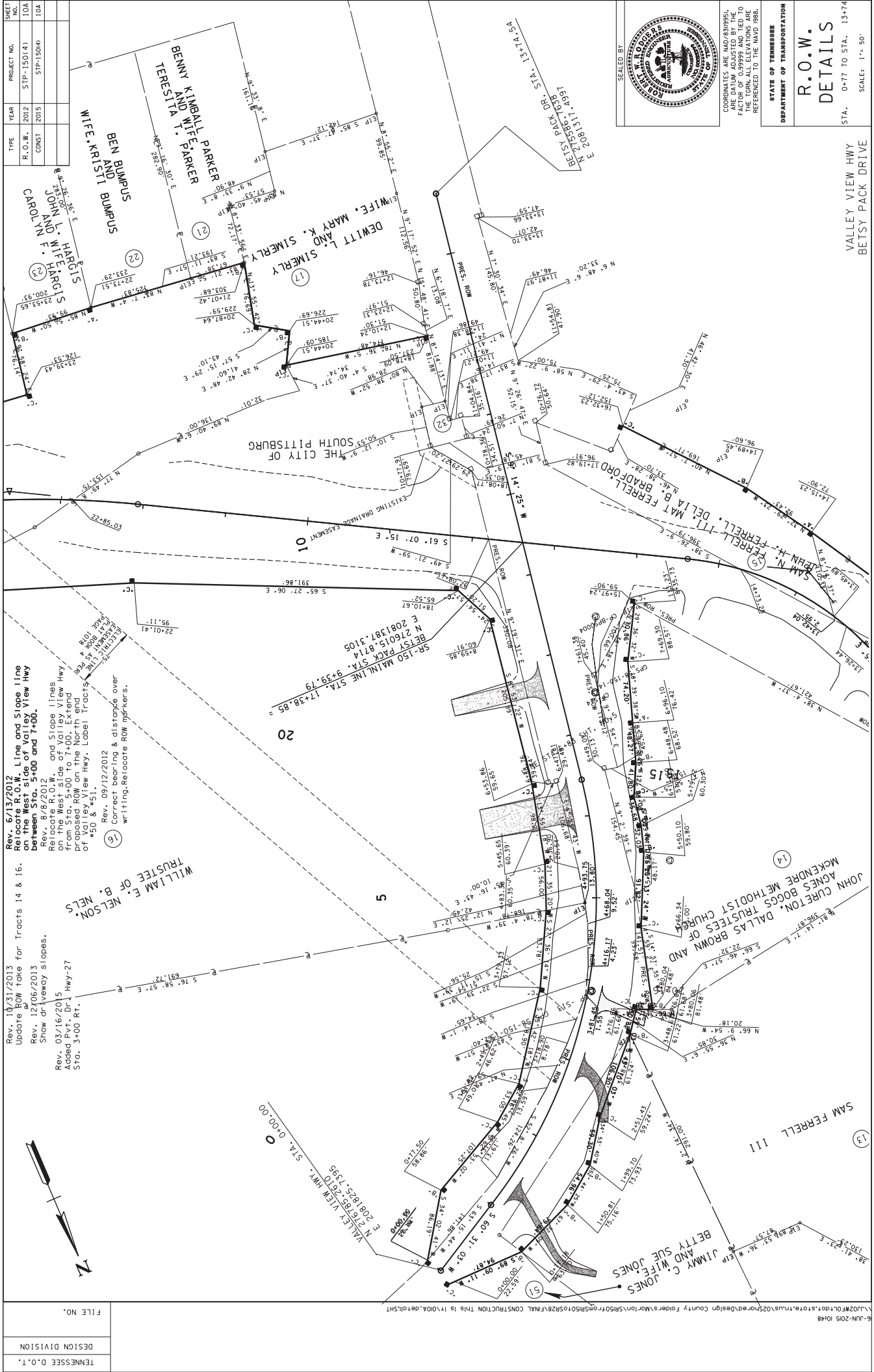
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 65+00 TO STA. 74+55
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

6-JUN-2015 10:48
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\009C_profile.SHT


PRESENT LAYOUT
STA. 00+77 TO STA. 13+74
SCALE: 1"= 50'
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TDRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.
SEALED BY
SHEET NO. 10
PROJECT NO. STP-150(4) STP-150(4)
YEAR 2012 2015
TYPE R.O.W. CONST.
BENNY KIMBALL PARKER AND WIFE, LORESTA T. PARKER
BEN BUMPUS AND WIFE, KRISTI BUMPUS
JOHN L. HARGIS AND WIFE, CAROLYN F. HARGIS
DEWITT AND MARY K. SIMERLY
THE CITY OF SOUTH PITTSBURG
BETSY PACK DR.
VALLEY VIEW HWY
SAM FERRELL III
JOHN CRETON, DALLAS BROWN, AGNES BOGGS TRUSTEES OF McKENDREE METHODIST CHURCH
WILLIAM E. NELSON, TRUSTEE OF B. NELS
JIMMY C. JONES AND WIFE, BETTY SUE JONES
Rev. 6/13/2012 Relocate R.O.W. Line and Slope line on the West side of Valley View Hwy between Sta. 5+00 and 7+00.
Rev. 8/8/2012 Relocate R.O.W. and Slope lines on the West side of Valley View Hwy from Sta. 5+00 to 7+00 & extend of proposed ROW on the North end of Valley View Hwy. Label Tracts "50' & "51.
Rev. 09/12/2012 Label environmental boundary STR-1
Rev. 10/31/2013 Update ROW take for Tracts 14 & 16.
Rev. 12/06/2013 Show driveway slopes.
Rev. 03/16/2015 Added Pvt. Dr. Hwy-27 Sta. 3+00 Rt.
SR-150 MAINLINE STA. 17+38.85 = 9+39.79 BETSY PACK STA. N 2760315.8714 E 2081387.3105
PC 1+00.00
VALLEY VIEW HWY STA. 0+00.00 N 2761785.2610 E 2081825.7595
PROP. R.O.W.
EXISTING DRAINAGE EASEMENT
PROP. COVE CREEK
S 61° 07' 15" E
S 9° 14' 25" W
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.
C:\J\02WP\01\dot\dot5.state.tn.us\02snored\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is 11x10 Dress.SHT
6-JUN-2015 10:48


R.O.W. DETAILS
STA. 0+77 TO STA. 13+74
SCALE: 1"= 50'
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
SEALED BY
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TDRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.
TYPE | YEAR | PROJECT NO. | SHEET NO.
R.O.W. | 2012 | STP-150(4) | 10A
CONST | 2015 | STP-1504) | 10A
VALLEY VIEW HWY
BETSY PACK DRIVE
BENNY KIMBALL PARKER AND WIFE, TERESITA T. PARKER
BEN BUMPUS AND WIFE, KRISTI BUMPUS
JOHN L. HARGIS AND WIFE, CAROLYN F. HARGIS
DEWITT L. AND WIFE, MARY K. SIMERLY
THE CITY OF SOUTH PITTSBURG
SAM N. FERRELL, III, MAT FERRELL, DELIA B. BRADFORD, JOHN H. FERRELL
WILLIAM E. NELSON, TRUSTEE OF B. NELS
JOHN CUNETON, DALLAS BROWN AND AGNES BOGGS TRUSTEES OF MCKENDREE METHODIST CHURCH
SAM FERRELL III
JIMMY C. JONES AND WIFE, BETTY SUE JONES
BETSY PACK DR. STA. 13+74.59
N 2081317.4997 E 2715896.7638
SR-150 MAINLINE STA. 17+38.85 = 9+39.79
N 2760150.8714 E 2081387.3105
VALLEY VIEW HWY. STA. 0+00.00
N 2760780.2610 E 2081825.1395
Rev. 6/13/2012 Relocate R.O.W. Line and Slope line on the West side of Valley View Hwy between Sta. 5+00 and 7+00.
Rev. 8/2/2012 Relocate R.O.W. and Slope lines on the West side of Valley View Hwy from Sta. 5+00 to 7+00. Extend proposed ROW on the North end of Valley View Hwy. Label Tracts #50 & #51.
Rev. 09/12/2012 Correct bearing & distance over writting. Relocate ROW markers.
Rev. 10/31/2013 Update ROW take for Tracts 14 & 16.
Rev. 12/06/2013 Show driveway slopes.
Rev. 03/16/2015 Added Pvt. Dr. Hwy-27 Sta. 3+00 Rt.
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.
6-JUN-2015 10:48
\\J002WFOL\dot5\state\tn.us\Designed\Design County Folders\Marion\SR150fromSR50toSR28\FINAL CONSTRUCTION This is 1t\10A.detail.SHT

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

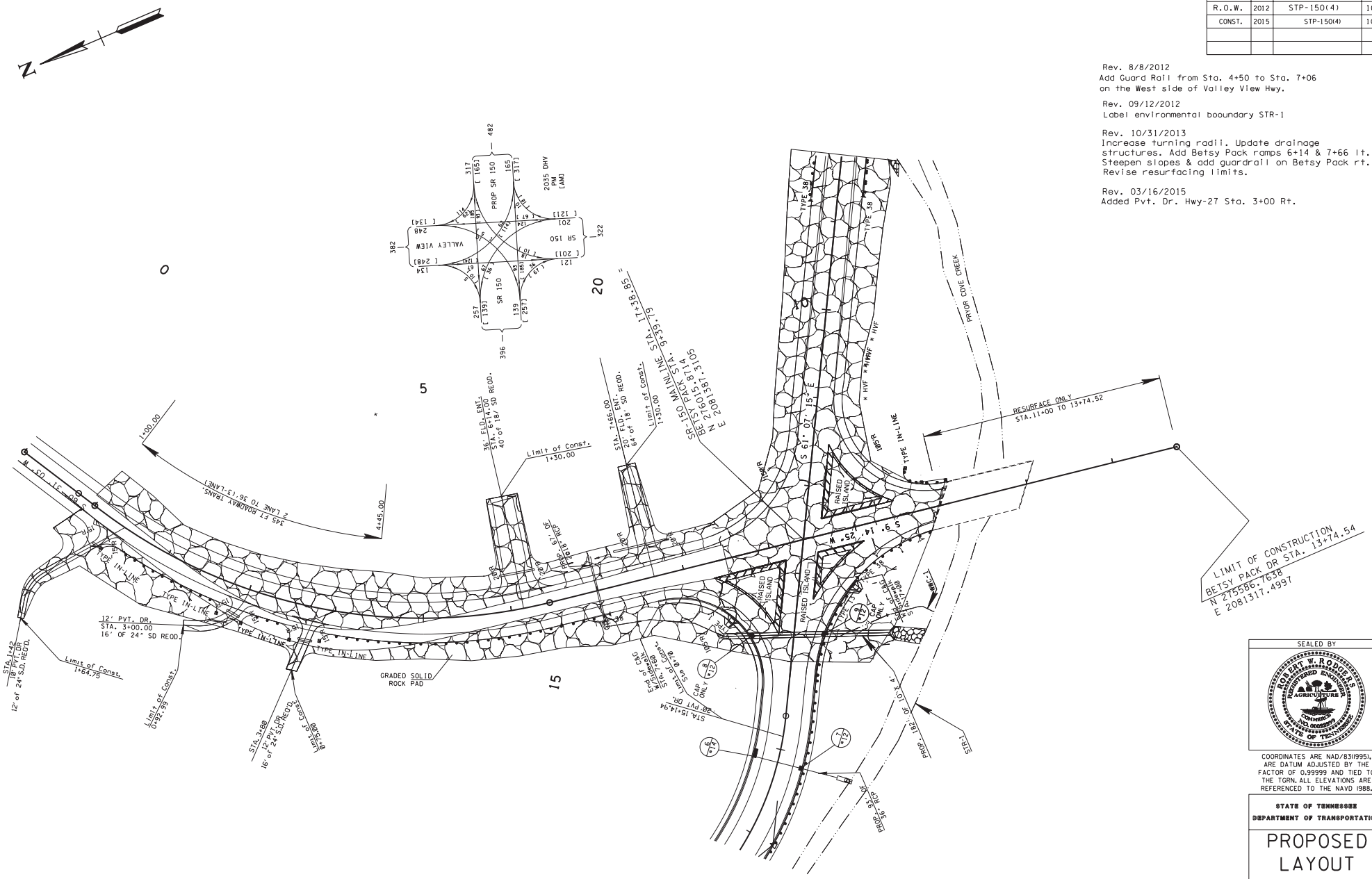
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	108
CONST.	2015	STP-150(4)	108

Rev. 8/8/2012
Add Guard Rail from Sta. 4+50 to Sta. 7+06 on the West side of Valley View Hwy.

Rev. 09/12/2012
Label environmental booundary STR-1

Rev. 10/31/2013
Increase turning radii. Update drainage structures. Add Betsy Pack ramps 6+14 & 7+66 lt. Steepen slopes & add guardrail on Betsy Pack rt. Revise resurfacing limits.

Rev. 03/16/2015
Added Pvt. Dr. Hwy-27 Sta. 3+00 Rt.



VALLEY VIEW HWY
BETSY PACK DRIVE

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 00+77 TO STA. 13+74

SCALE: 1"= 50'

16-JUN-2015 10:48
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is 1+100B_proposed.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	10C
CONST.	2015	STP-150(4)	10C

Rev. 10/31/2013
Update drainage structures & superelevation rates.

Rev. 03/13/2015
ADD PRIVATE DRIVE
@ STA 3+00 ON THE LT .

DRAINAGE/ HYDRAULIC DATA FOR BRIDGE

STATION 11+43.76 STREAM NAME PRYOR COVE CREEK

STREAM BED LINING: COBBLE

DIRECTION OF FLOW LEFT(EAST)

DRAINAGE AREA 8264 AC ; ( ) FLAT ( ) ROLLING ( ) HILLY (X) MTNS.

PRESENT STRUCTURE: SPAN 56.6' HEIGHT 8.0' STRUCTURE CONCRETE SUPERSTRUCTURE CONCRETE

BEGIN STATION-OFFSET 10+98.17 END STATION-OFFSET 11+99.57

LOW BEAM ELEV. 656.62 LOCATION. OUTLET

INLET INVERT ELEV. 648.00' OUTLET INVERT. 648.00'

NORMAL WATER ELEV. 649.00' EXTREME HIGHWATER ELEV. 656.00' DATE. FEB-2009

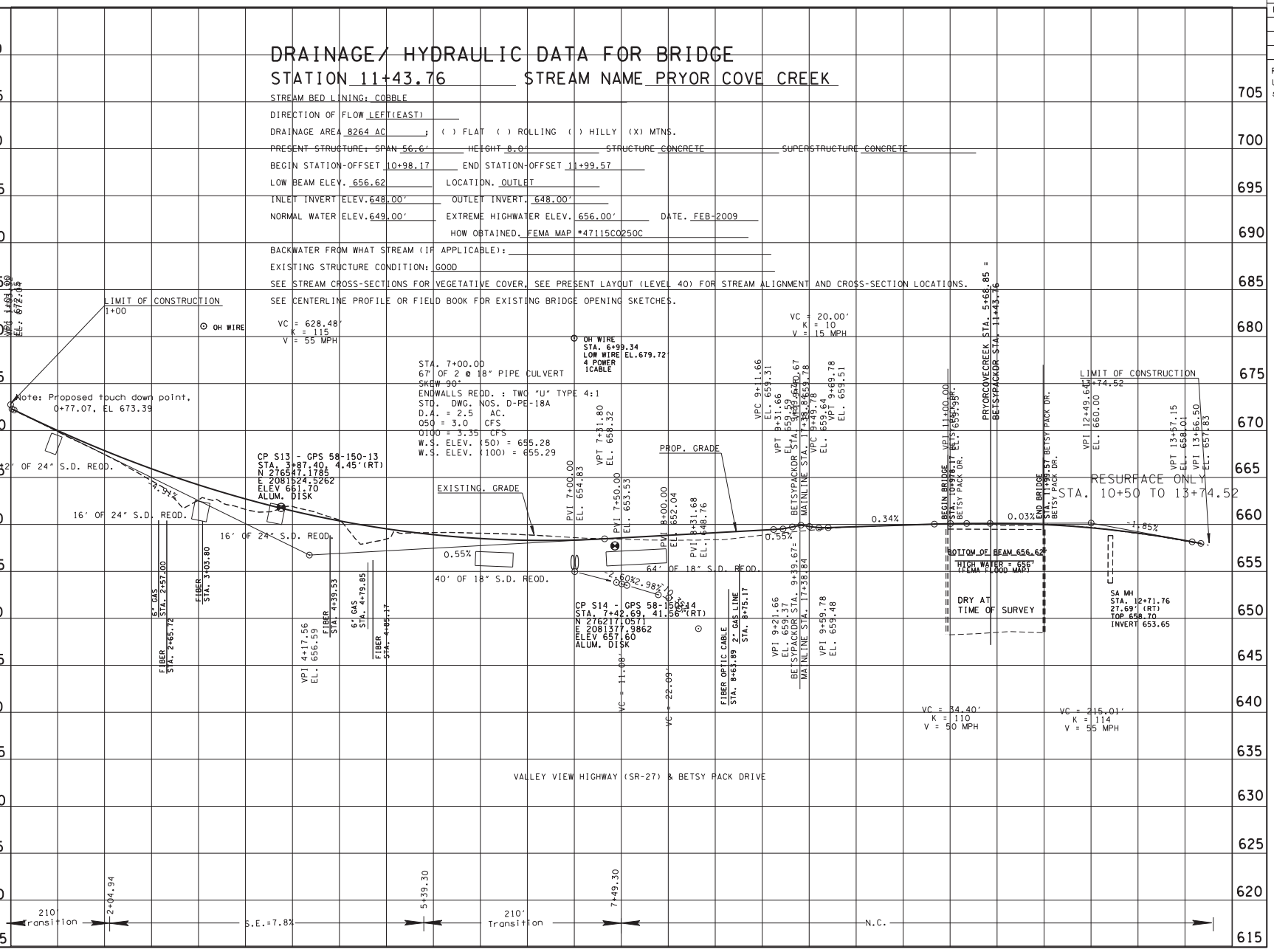
HOW OBTAINED. FEMA MAP #47115C0250C

BACKWATER FROM WHAT STREAM (IF APPLICABLE):

EXISTING STRUCTURE CONDITION: GOOD

SEE STREAM CROSS-SECTIONS FOR VEGETATIVE COVER. SEE PRESENT LAYOUT (LEVEL 40) FOR STREAM ALIGNMENT AND CROSS-SECTION LOCATIONS.

SEE CENTERLINE PROFILE OR FIELD BOOK FOR EXISTING BRIDGE OPENING SKETCHES.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
No. 0000000
STATE OF TENNESSEE

VALLEY VIEW HWY
BETSY PACK DRIVE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 1+00 TO STA. 13+74

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

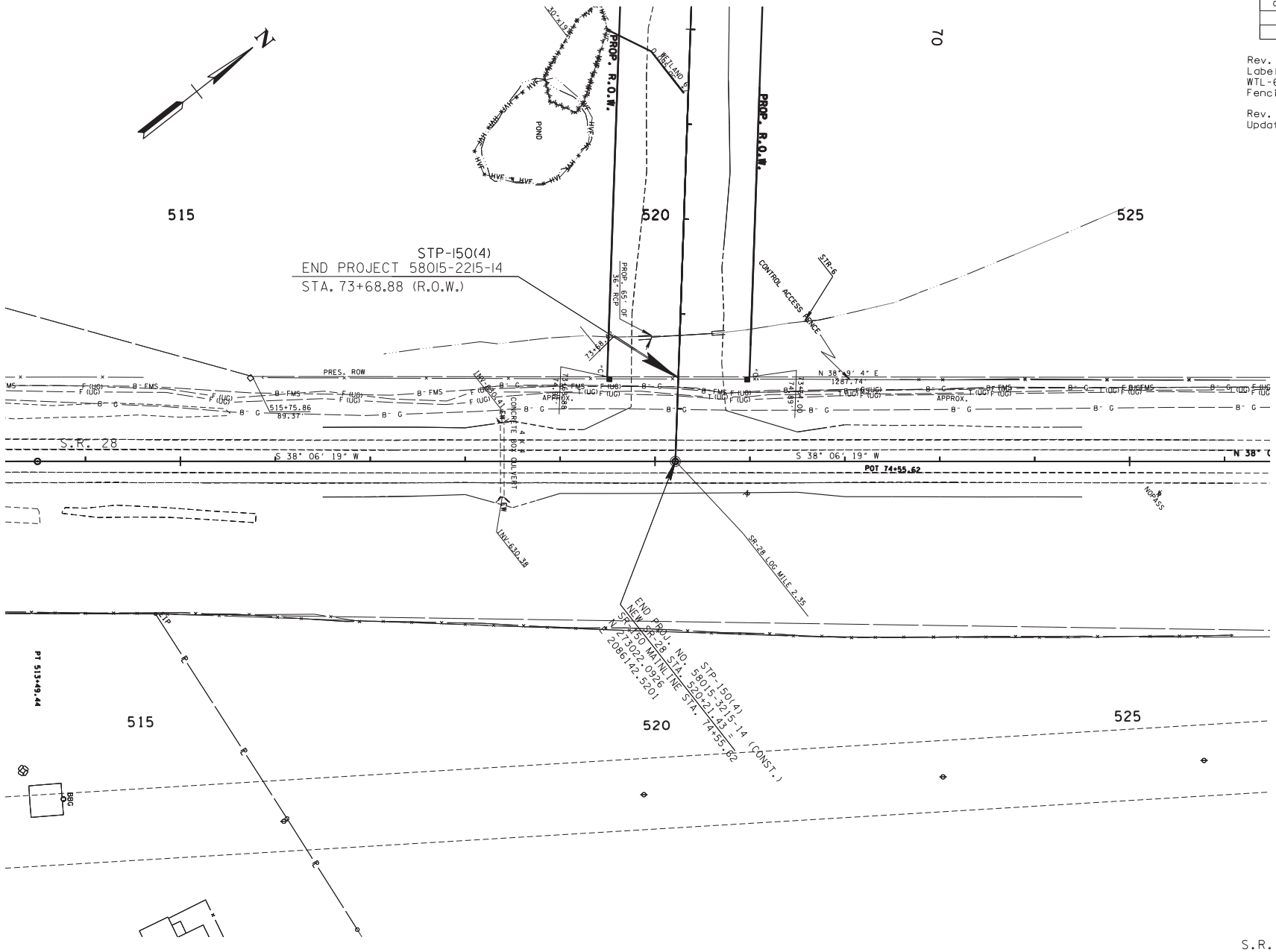
16-JUN-2015 10:48
\\J02\FOL\tdot.state.tn.us\025shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is 1+100C_profile.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	11
CONST.	2015	STP-150(4)	11

Rev. 10/11/2012
Label environmental boundaries
WTL-6 and add High Visibility Fencing

Rev. 10/31/2013
Update end project.



S.R. 28

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
No. 0000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 513+00 TO STA. 526+00

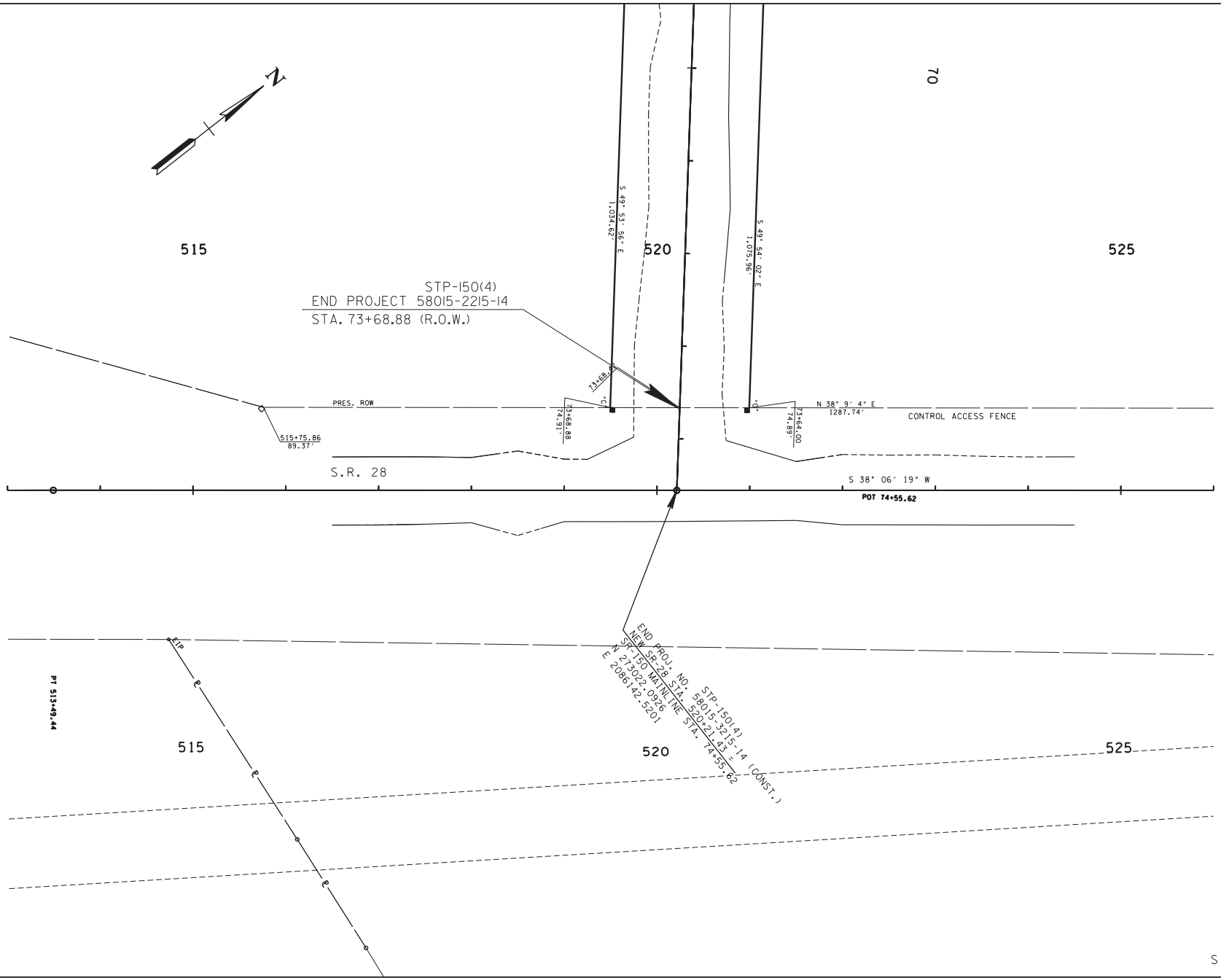
SCALE: 1"= 50'

6-JUN-2015 10:48
\\J02\FOL1\dot\state.tn.us\025hared\Design County Folders\Marion\SR150fromSR50toSR28\FINAL CONSTRUCTION This is 1+1\OIL_pres.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	11A
CONST.	2015	STP-150(4)	11A

Rev. 10/31/2013
Update end project.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
No. 0000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 513+00 TO STA. 526+00

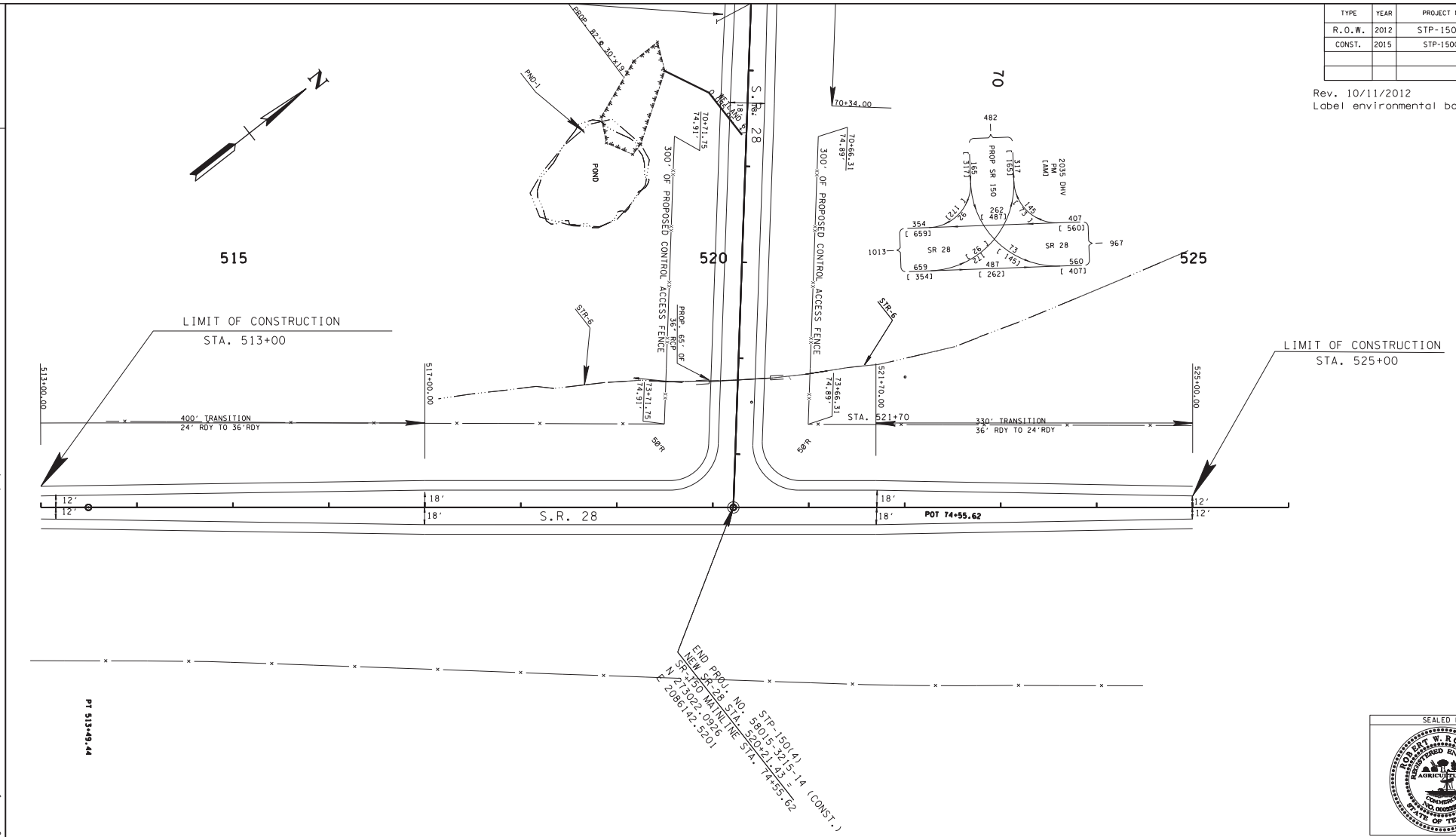
SCALE: 1"= 50'

6-JUN-2015 10:48
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR150fromSR50toSR28\FINAL CONSTRUCTION This is I:\011A_detail.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	11B
CONST.	2015	STP-150(4)	11B

Rev. 10/11/2012
Label environmental boundaries.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
CERTIFICATE NO. 0000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 513+00 TO STA. 526+00

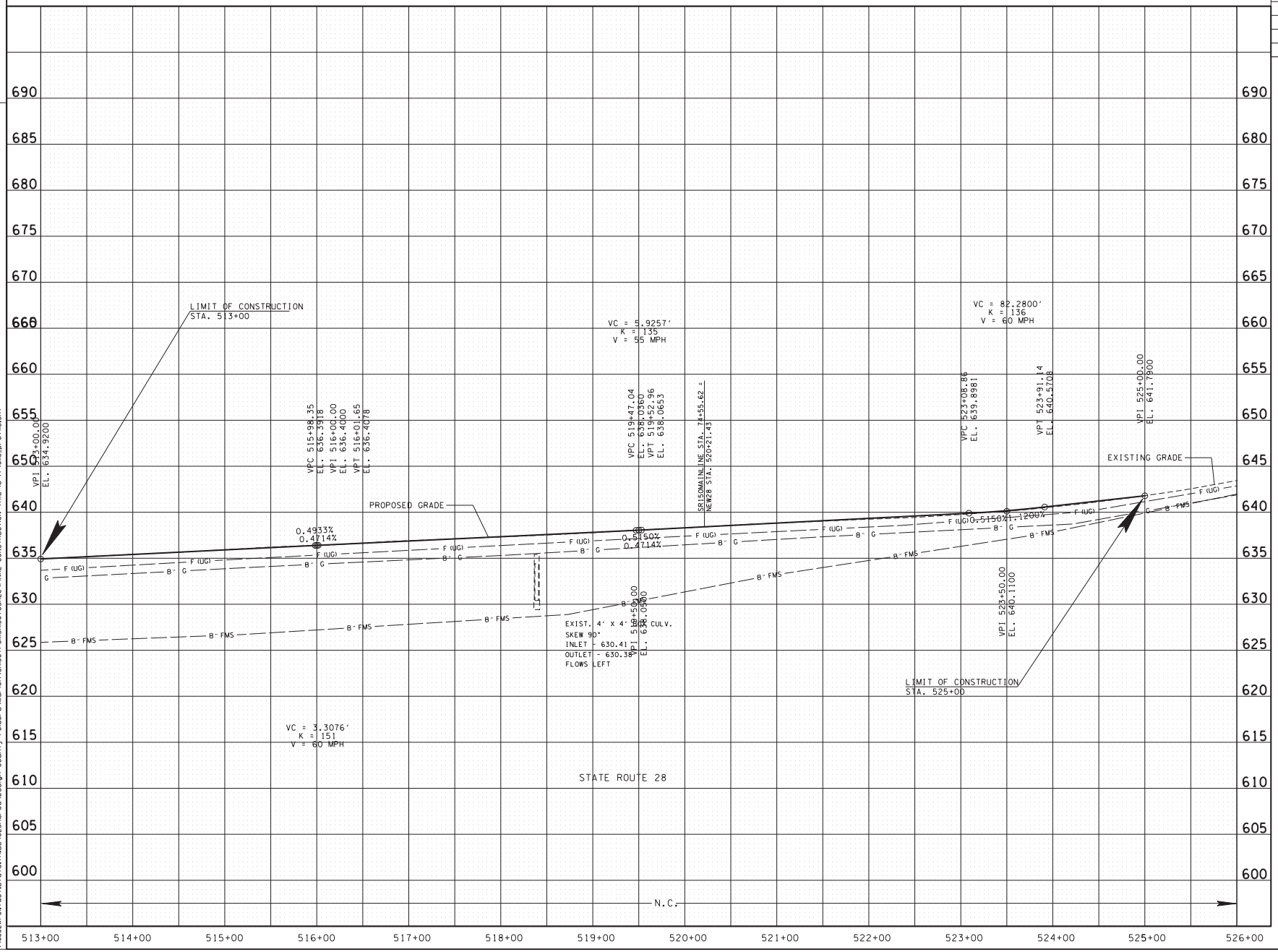
SCALE: 1"= 50'

S.R. 28

16-JUN-2015 10:48
\\J02WF01.tdot.state.tn.us\025Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\OIB_proposed.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	11C
CONST.	2015	STP-150(4)	11C

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



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00025099
STATE OF TENNESSEE

S.R. 28

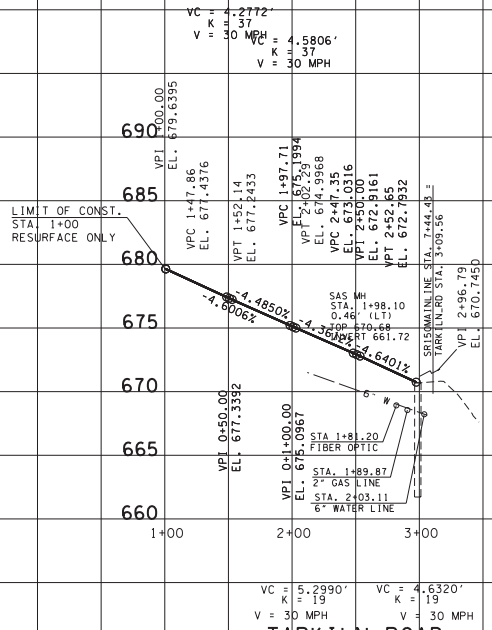
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA. 513+00 TO STA. 525+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

6-JUN-2015 10:48
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\OHC_profile.SHT

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



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	11D
CONST.	2015	STP-150(4)	11D

Rev. 07/11/2012
Sheet added.

Rev. 10/31/2013
Show station limits & label "Resurface Only".

SEALED BY

ROBERT W. ROBERTS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 000000
STATE OF TENNESSEE

TARKILN ROAD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

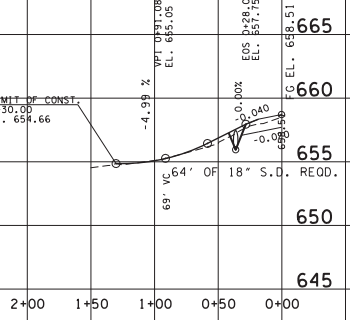
SCALE: 1"= 50' HORIZ.
1"=5' VERT.

6-JUN-2015 07:47
\\J02WF01.tdot.state.tn.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\OND_profile.SHT

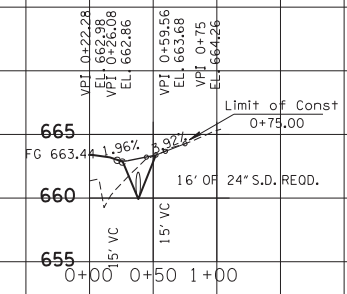
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	12
CONST.	2015	STP-150(4)	12

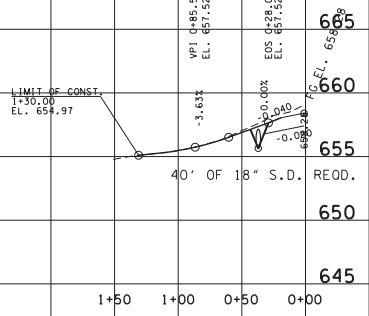
Rev. 10/31/2013
Remove SchoolRamp profile.
Add Betsy Pack ramps 6+14 & 7+66 lt.



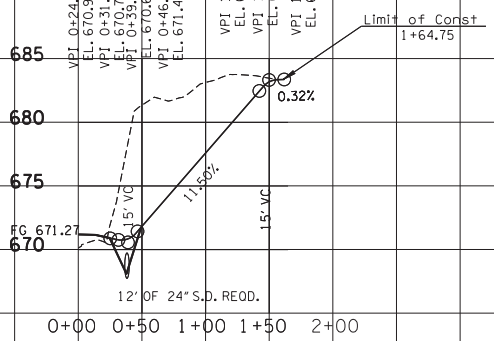
TRACT 16
20' PVT. DR.
BETSY PACK STA.7+66. LT



TRACT 13
12' PVT. DR.
BETSY PACK STA.3+80 RT

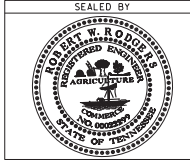


TRACT 16
40' PVT. DR.
BETSY PACK STA.6+14 LT



TRACT 50
10' PVT. DR.
BETSY PACK STA.1+42 RT

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

6-JUN-2015 07:47
\\J02\MFDL\tdot.state.tn.us\J02\Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\J02\pvt drive.SHT

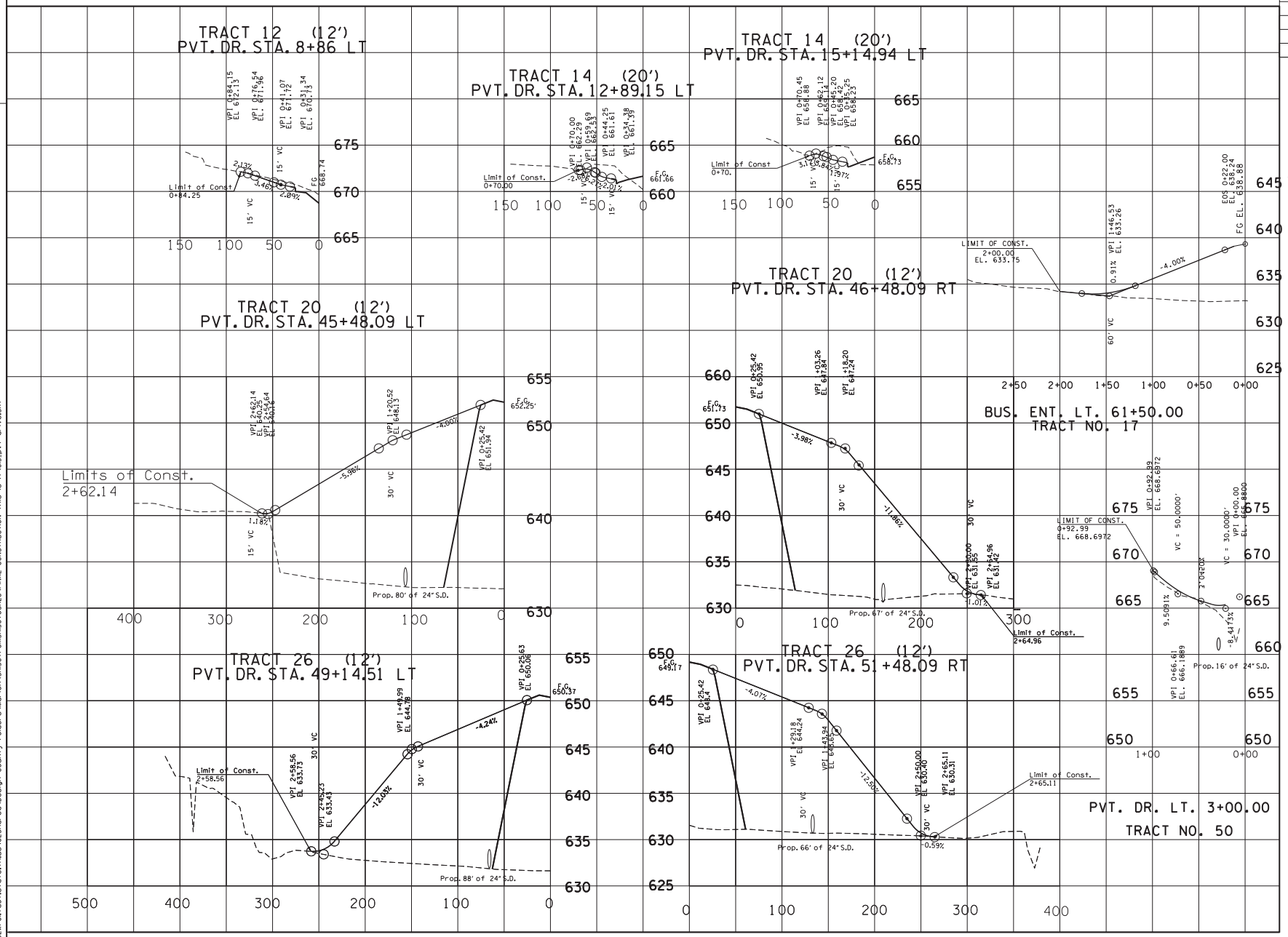
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	13
CONST.	2015	STP-150(4)	13

Revised 06/27/2012
Revised private drive profile @ Sta. 48+50 to Sta. 49+16.

Revised 01/16/2015
Added Bus. Ent. Sta. 61+50 LT

Revised 03/16/2015
Added Pvt. Dr. Hwy-27 Sta. 3+00 Rt.



SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

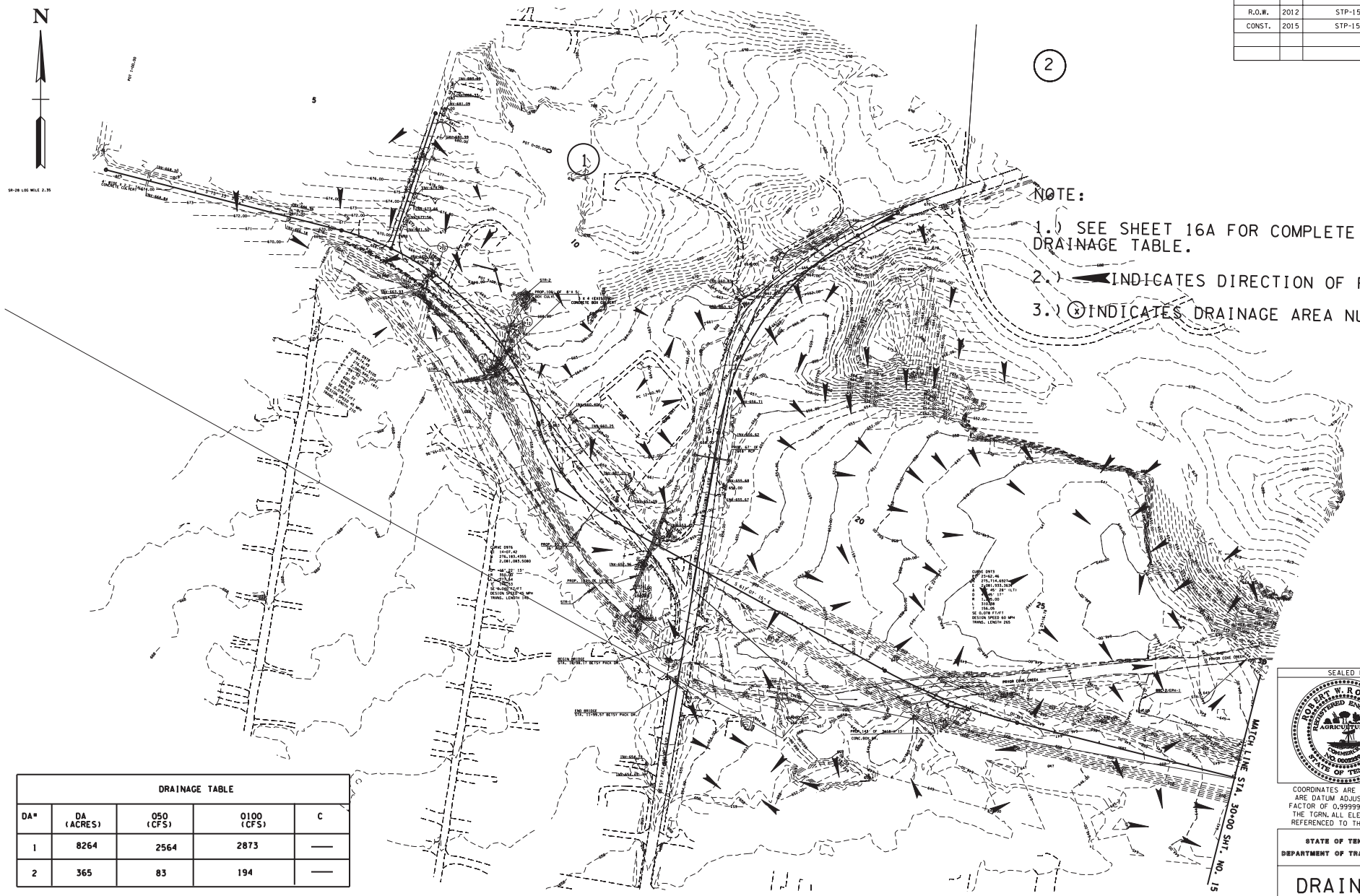
PROFILE OF PRIVATE DRIVES

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

6-JUN-2015 07:47
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\013_pvt drive.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	14
CONST.	2015	STP-150(4)	14



DRAINAGE TABLE				
DA#	DA (ACRES)	Q50 (CFS)	Q100 (CFS)	C
1	8264	2564	2873	——
2	365	83	194	——

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMERCE AND INSURANCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

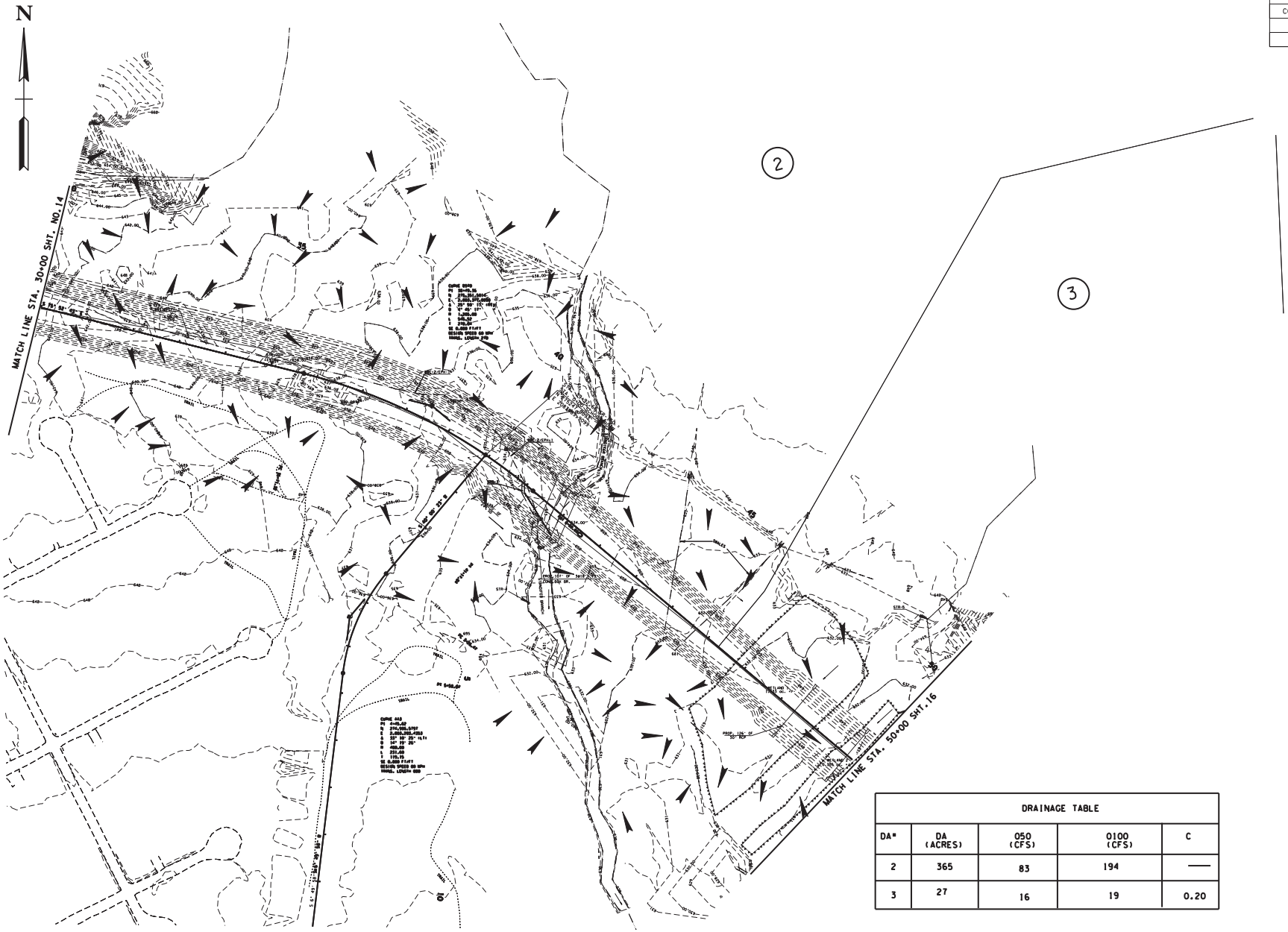
STA. 00+00 TO STA. 30+00

SCALE: 1"=100'

6-JUN-2015 07:41
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is 1\104_drainage map.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	14A
CONST.	2015	STP-150(4)	15



DRAINAGE TABLE				
DA#	DA (ACRES)	050 (CFS)	0100 (CFS)	C
2	365	83	194	——
3	27	16	19	0.20

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00050099
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

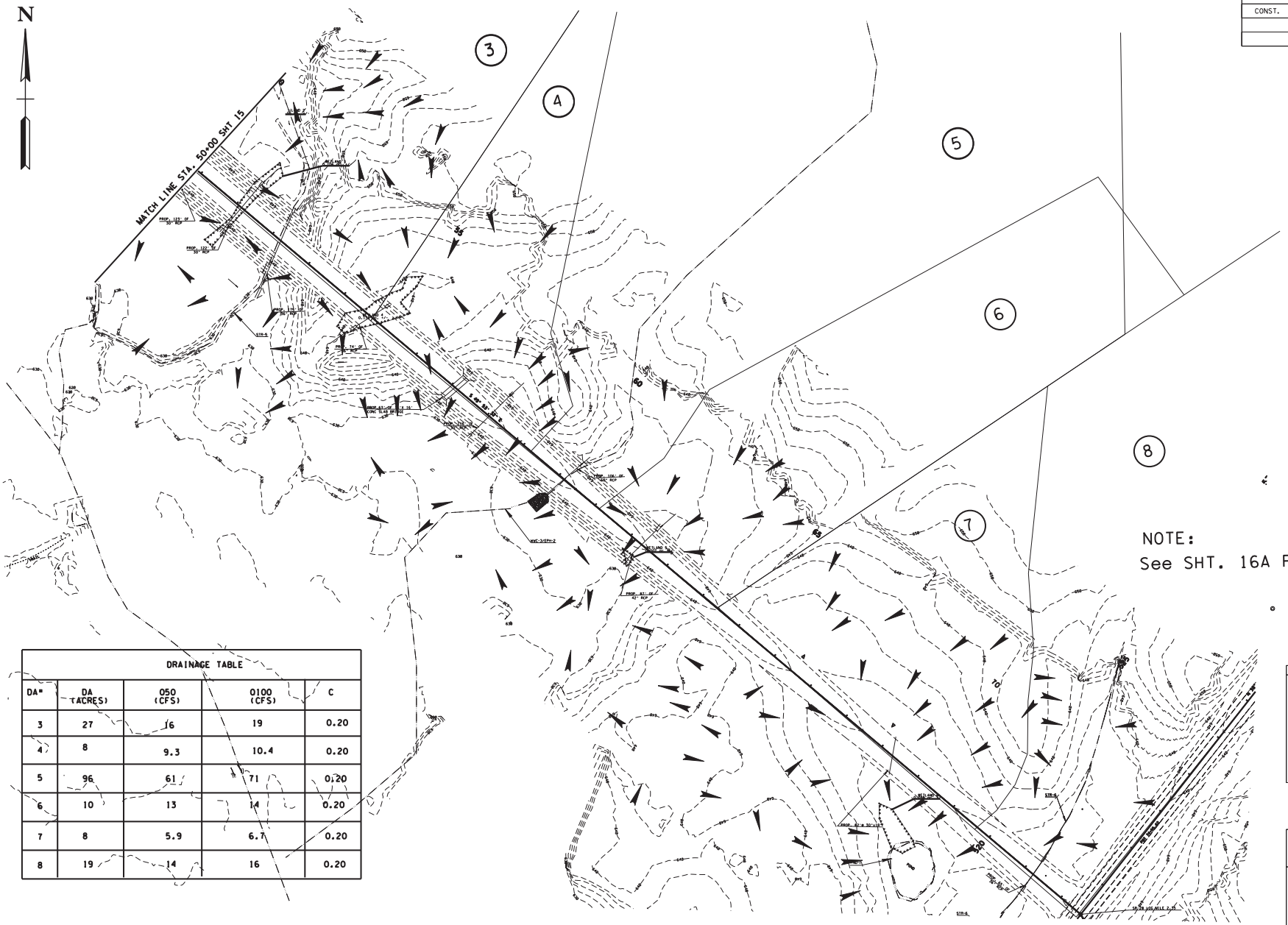
DRAINAGE MAP

STA. 30+00 TO STA. 50+00
SCALE: 1"=100'

6-JUN-2015 07:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\015_drainage map.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	14B
CONST.	2015	STP-150(4)	16



DRAINAGE TABLE				
DA#	DA (ACRES)	Q50 (CFS)	Q100 (CFS)	C
3	27	16	19	0.20
4	8	9.3	10.4	0.20
5	96	61	71	0.20
6	10	13	14	0.20
7	8	5.9	6.7	0.20
8	19	14	16	0.20

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE AND INSURANCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

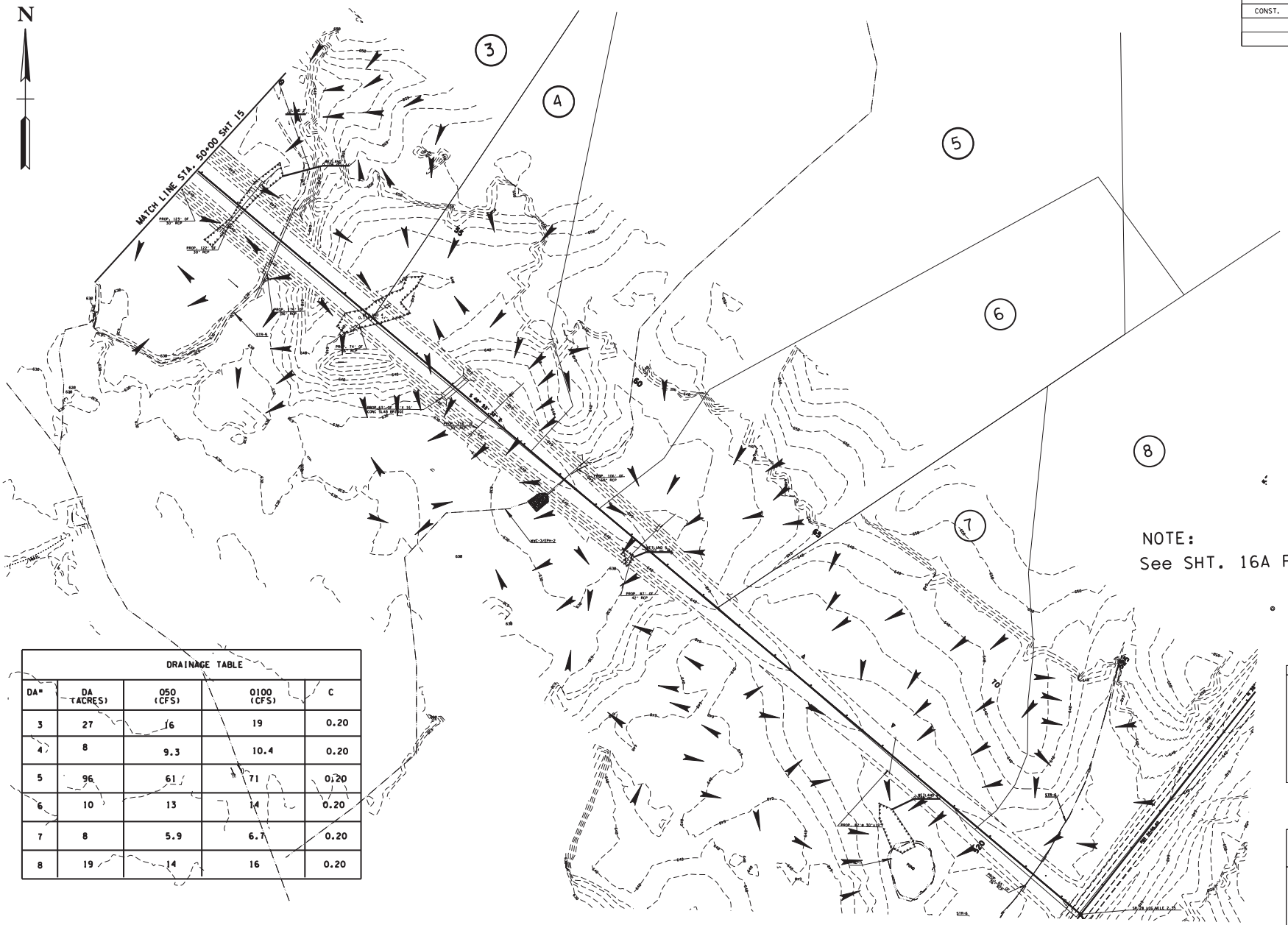
STA. 50+00 TO STA. 74+50

SCALE: 1"=100'

6-JUN-2015 07:41
\\J02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is 1+1016_drainage map.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	14B
CONST.	2015	STP-150(4)	16



DRAINAGE TABLE				
DA#	DA (ACRES)	Q50 (CFS)	Q100 (CFS)	C
3	27	16	19	0.20
4	8	9.3	10.4	0.20
5	96	61	71	0.20
6	10	13	14	0.20
7	8	5.9	6.7	0.20
8	19	14	16	0.20

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE AND INSURANCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

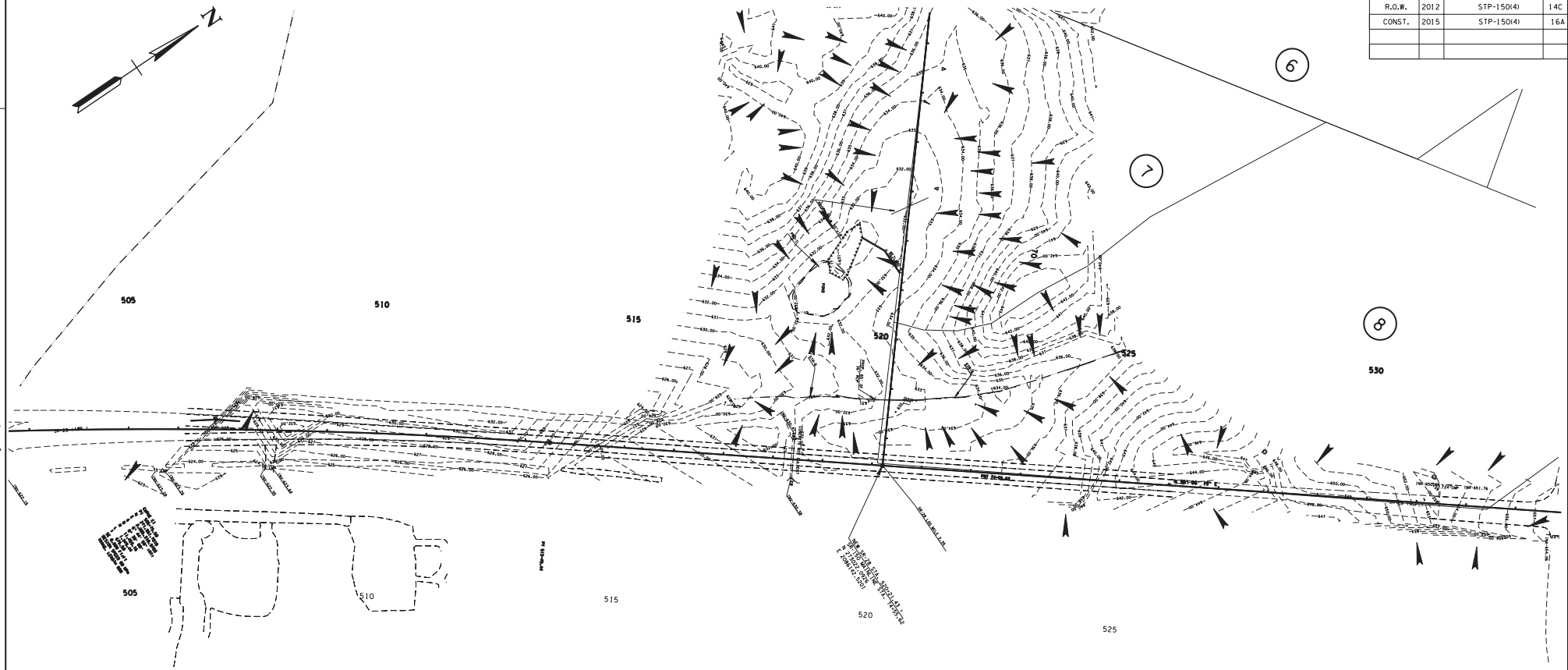
STA. 50+00 TO STA. 74+50

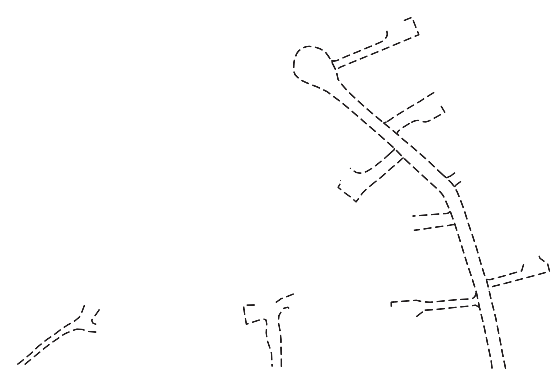
SCALE: 1"=100'

6-JUN-2015 07:41
\\J02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is 1+1016_drainage map.SHT

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

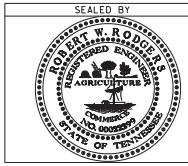
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	14C
CONST.	2015	STP-150(4)	16A





DRAINAGE TABLE				
DA#	DA (ACRES)	050 (CFS)	0100 (CFS)	C
1	8264	2564	2873	----
2	365	83	194	----
3	27	16	19	0.20
4	8	9.3	10.4	0.20
5	96	61	71	0.20
6	10	13	14	0.20
7	8	5.9	6.7	0.20
8	19	14	16	0.20

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

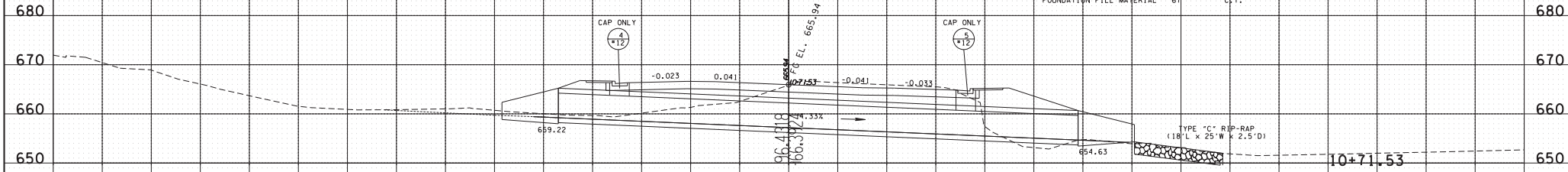
STA. 513+00 TO STA. 525+00
SCALE: 1"=100'

6-JUN-2015 07:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\016A_drainage map.SHT

Rev. 10/31/2013
Update drainage structres & data

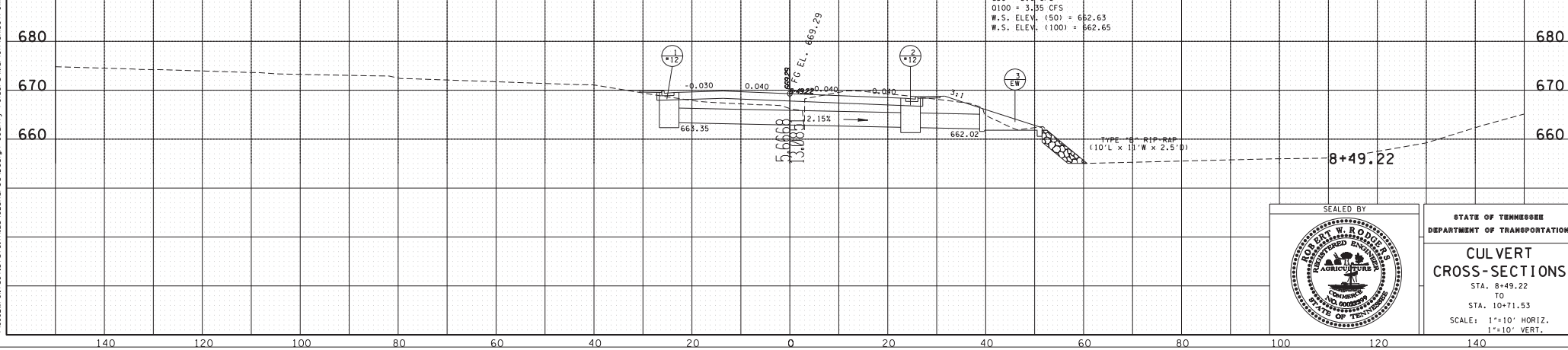
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	17
CONST.	2015	STP-150(4)	17

STATION	10+71.53
STRUCTURE	106' OF 8' X 5' CONC BOX CULVERT
SKEW	53° RT
DRAINAGE AREA	209 AC.
DESIGN DISCHARGE (Q50)	184 CFS
DESIGN DISCHARGE (Q100)	219 CFS
OVERTOPPING ELEV.	665.94
ALLOWABLE HEADWATER ELEV.	
Q50 HEADWATER ELEV.	663.09
Q100 HEADWATER ELEV.	663.57
VELOCITY (Q50)	18.54 FT/S
VELOCITY (Q100)	19.20 FT/S
INLET ELEVATION	659.22
OUTLET ELEVATION	654.63
STANDARD DRAWING NUMBERS	STD-15-37
CLASS "A" CONCRETE	81 C.Y.
STEEL BAR REINFORCING	17596 LB.
FOUNDATION FILL MATERIAL	67 C.Y.



STA. 8+49.22
62' OF 36" RCP
SKEW 90°
ENDWALLS REQD. : ONE "U" TYPE 3:1
STD. DWG. NOS. D-PE-36A

D.A. = 2.5 AC.
Q50 = 3.0 CFS
Q100 = 3.35 CFS
W.S. ELEV. (50) = 662.63
W.S. ELEV. (100) = 662.65



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00023399
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

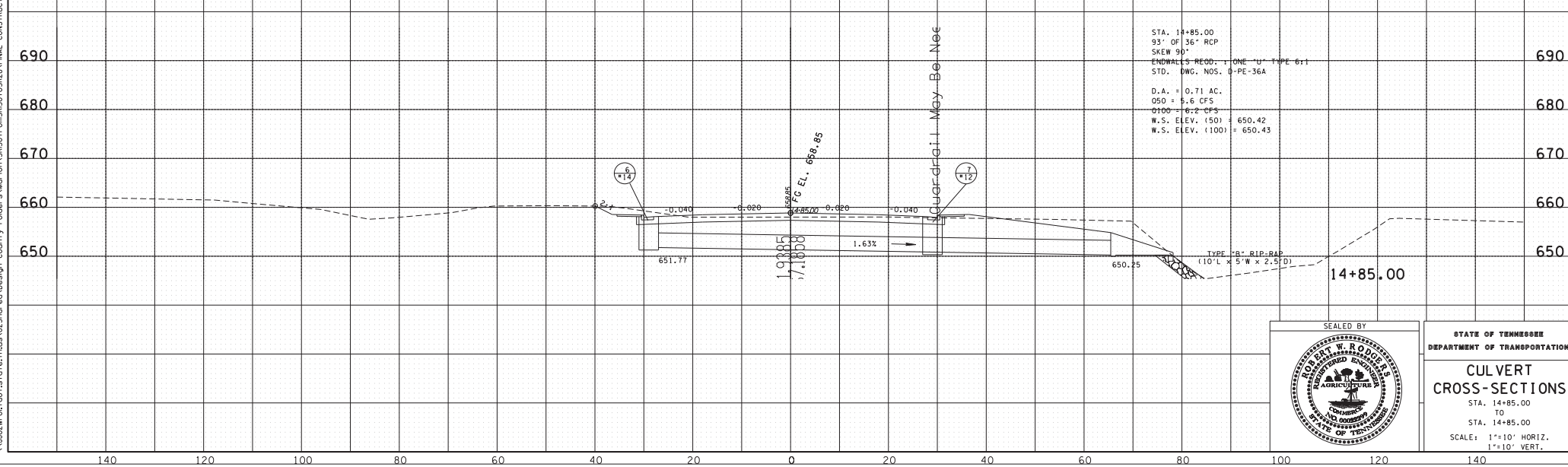
STA. 8+49.22
TO
STA. 10+71.53

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

16-JUN-2015 07:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mal50-01CulvertXsectionsFINALSheets.sht

Rev. 10/31/2013
Update drainage structres & data

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	18
CONST.	2015	STP-150(4)	18



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00053399
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 14+85.00
TO
STA. 14+85.00

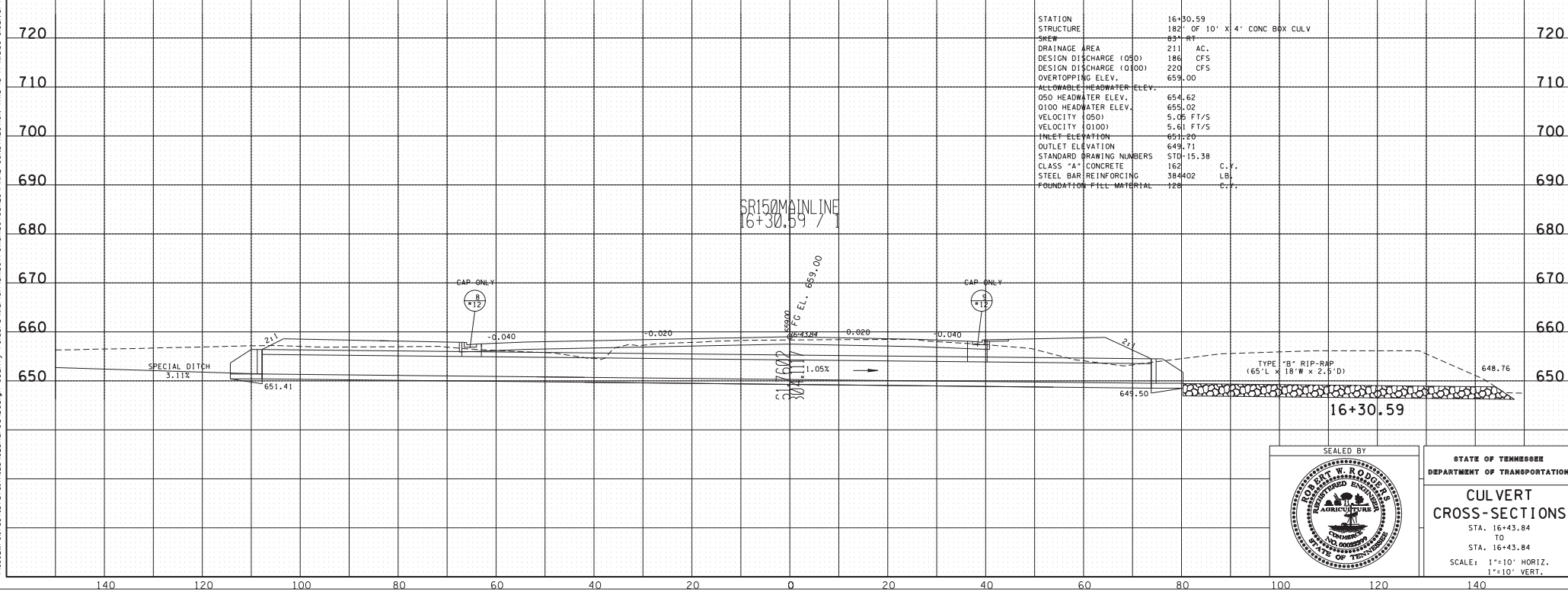
SCALE: 1"=10' HORIZ.
1"=10' VERT.

16-JUN-2015 07:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mal50-01CulvertXsectionsFINALSheets.sht

Rev. 10/31/2013
Update drainage structres & data

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	19
CONST.	2015	STP-150(4)	19

STATION	16+30.59	
STRUCTURE	182' OF 10' X 4' CONC BOX CULV	
SKEW	83° RT	
DRAINAGE AREA	211	AC.
DESIGN DISCHARGE (Q50)	186	CFS
DESIGN DISCHARGE (Q100)	220	CFS
OVERTOPPING ELEV.	659.00	
ALLOWABLE HEADWATER ELEV.		
Q50 HEADWATER ELEV.	654.62	
Q100 HEADWATER ELEV.	655.02	
VELOCITY (Q50)	5.05 FT/S	
VELOCITY (Q100)	5.61 FT/S	
INLET ELEVATION	651.20	
OUTLET ELEVATION	649.71	
STANDARD DRAWING NUMBERS	STD-15.38	
CLASS "A" CONCRETE	162	C.Y.
STEEL BAR REINFORCING	384402	LB.
FOUNDATION FILL MATERIAL	128	C.Y.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00022399
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 16+43.84
TO
STA. 16+43.84

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

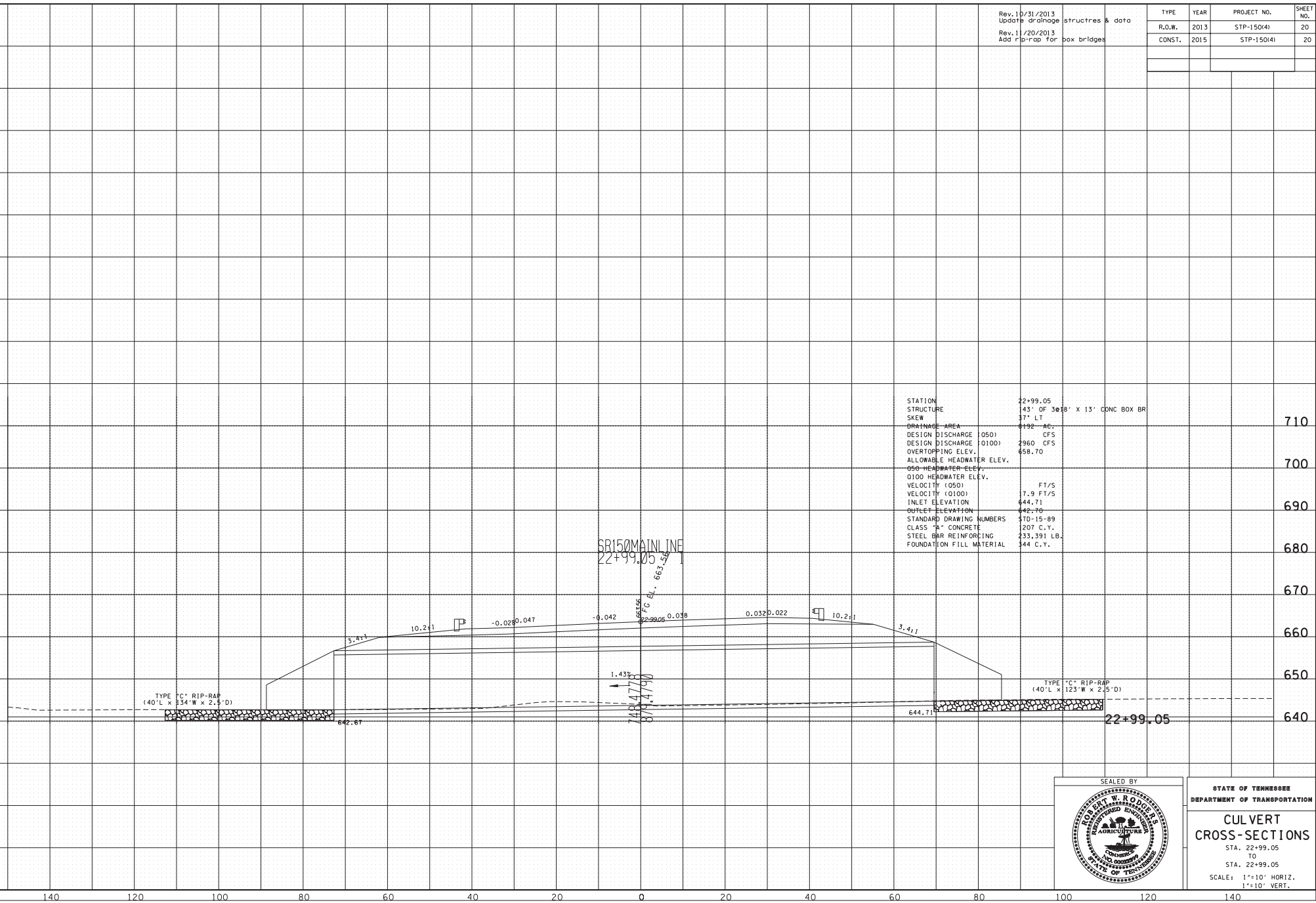
16-JUN-2015 07:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mal50-01CulvertXsectionsFINALSheets.sht

Rev.10/31/2013
Update drainage structres & data

Rev.11/20/2013
Add rip-rap for box bridges

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	20
CONST.	2015	STP-150(4)	20

STATION	22+99.05
STRUCTURE	43' OF 36'8' X 13' CONC BOX BR
SKEW	37° LT
DRAINAGE AREA	8192 AC.
DESIGN DISCHARGE (Q50)	CFS
DESIGN DISCHARGE (Q100)	2960 CFS
OVERTOPPING ELEV.	658.70
ALLOWABLE HEADWATER ELEV.	
~~Q50 HEADWATER ELEV.~~	
Q100 HEADWATER ELEV.	
VELOCITY (Q50)	FT/S
VELOCITY (Q100)	7.9 FT/S
INLET ELEVATION	644.71
OUTLET ELEVATION	642.70
STANDARD DRAWING NUMBERS	STD-15-89
CLASS "A" CONCRETE	207 C.Y.
STEEL BAR REINFORCING	233,391 LB.
FOUNDATION FILL MATERIAL	344 C.Y.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
TENNESSEE DEPARTMENT OF AGRICULTURE
COMMISSIONER
STATE OF TENNESSEE

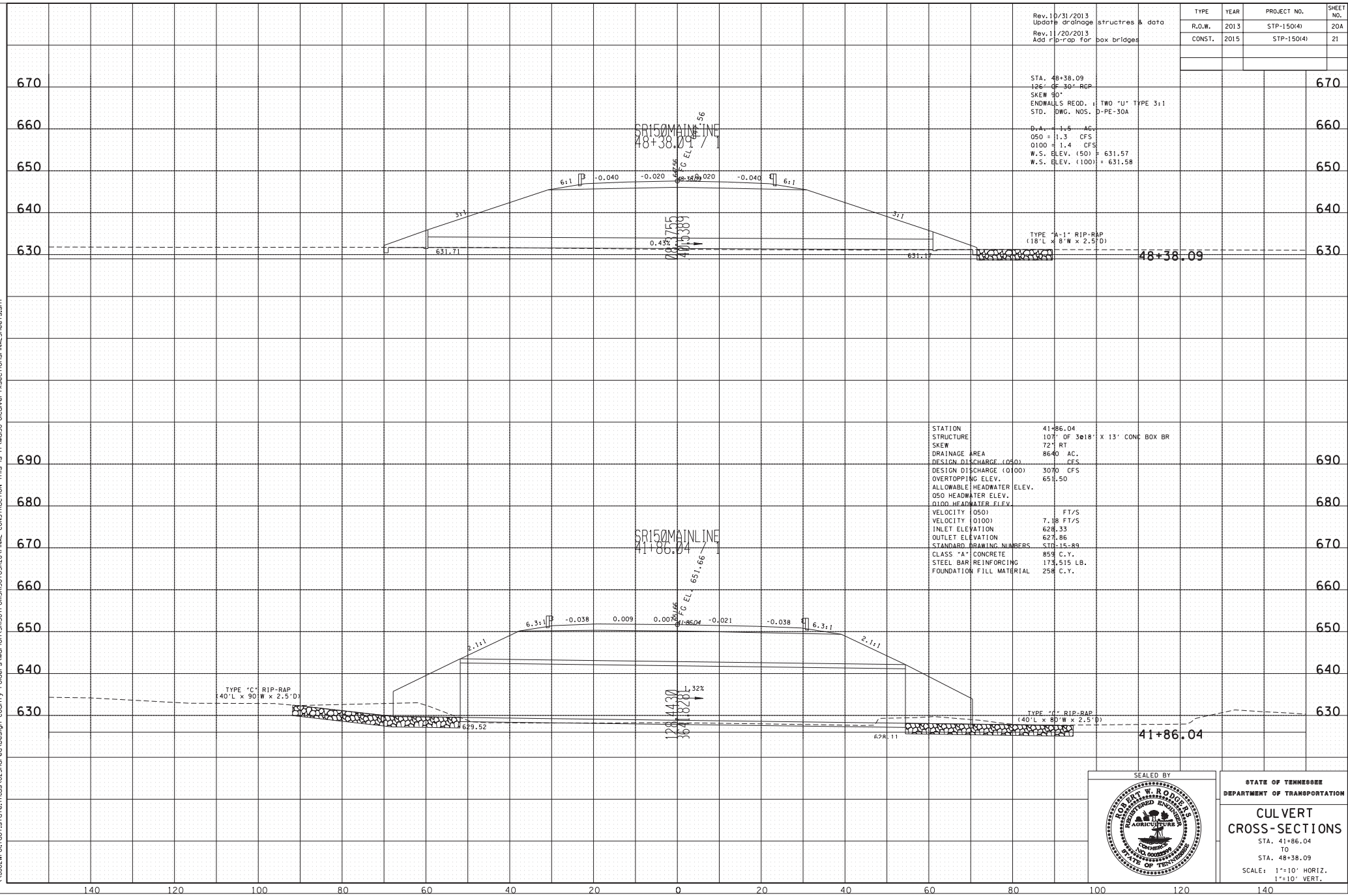
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 22+99.05
TO
STA. 22+99.05

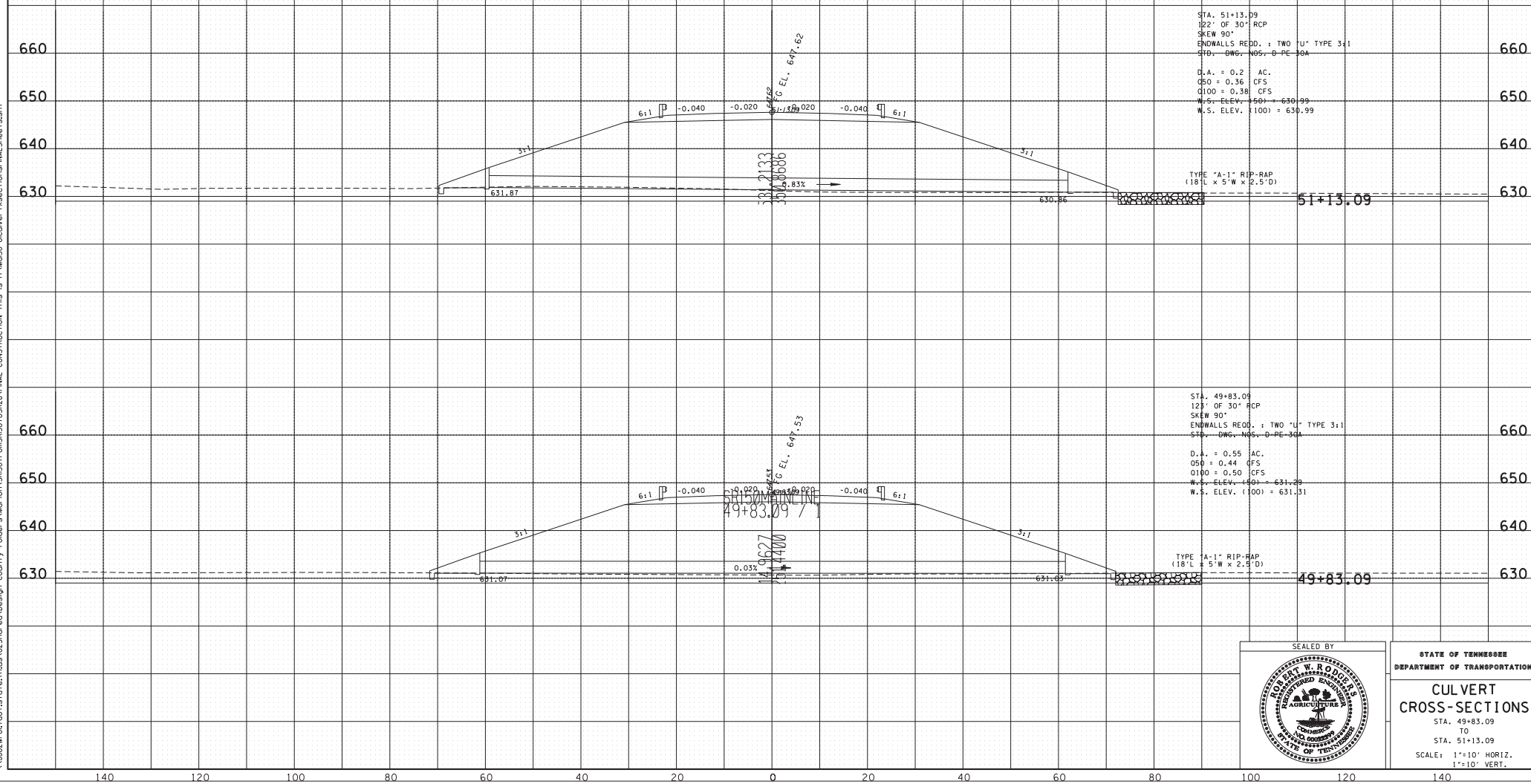
SCALE: 1"=10' HORIZ.
1"=10' VERT.

16-JUN-2015 07:41
\\J02WF01.fdot.state.tn.us\02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This Is It\Mar50-01CulvertXsectionsFINALSheets.sht


Rev.10/31/2013
Update drainage structres & data
Rev.11/20/2013
Add rip-rap for box bridges
TYPE | YEAR | PROJECT NO. | SHEET NO.
R.O.W. | 2013 | STP-150(4) | 20A
CONST. | 2015 | STP-150(4) | 21
STA. 48+38.09
126' OF 30" RCP
SKEW 90°
ENDWALLS REQD. : TWO "U" TYPE 3:1
STD. DWG. NOS. D-PE-30A
D.A. = 1.5 AC.
Q50 = 1.3 CFS
Q100 = 1.4 CFS
W.S. ELEV. (Q50) = 631.57
W.S. ELEV. (Q100) = 631.58
SR150MAINLINE
48+38.09
FG EL. 644.56
6:1
-0.040
-0.020
0.020
-0.040
6:1
3:1
3:1
631.71
631.17
0.43%
TYPE "A-1" RIP-RAP
(18'L x 8'W x 2.5'D)
48+38.09
STATION 41+86.04
STRUCTURE 107' OF 3@18' X 13' CONC BOX BR
SKEW 72° RT
DRAINAGE AREA 8640 AC.
DESIGN DISCHARGE (Q50) CFS
DESIGN DISCHARGE (Q100) 3070 CFS
OVERTOPPING ELEV. 651.50
ALLOWABLE HEADWATER ELEV.
Q50 HEADWATER ELEV.
Q100 HEADWATER ELEV.
VELOCITY (Q50) FT/S
VELOCITY (Q100) 7.18 FT/S
INLET ELEVATION 628.33
OUTLET ELEVATION 627.86
STANDARD DRAWING NUMBERS STD 15-89
CLASS "A" CONCRETE 859 C.Y.
STEEL BAR REINFORCING 173,515 LB.
FOUNDATION FILL MATERIAL 258 C.Y.
SR150MAINLINE
41+86.04
FG EL. 651.66
6.3:1
-0.038
0.009
0.009
-0.021
-0.038
6.3:1
2.1:1
2.1:1
1.32%
TYPE "C" RIP-RAP
(40'L x 90'W x 2.5'D)
629.52
628.11
TYPE "C" RIP-RAP
(40'L x 80'W x 2.5'D)
41+86.04
SEALED BY
ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMISSION NO. 0000000
STATE OF TENNESSEE
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
CULVERT
CROSS-SECTIONS
STA. 41+86.04
TO
STA. 48+38.09
SCALE: 1"=10' HORIZ.
1"=10' VERT.
16-JUN-2015 07:41
\\JUOZWF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This Is It\Mar50-01CulvertXsectionsFINALSheets.sht

Rev. 10/31/2013
Update drainage structres & data

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	20B
CONST.	2015	STP-150(4)	21A



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00032399
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

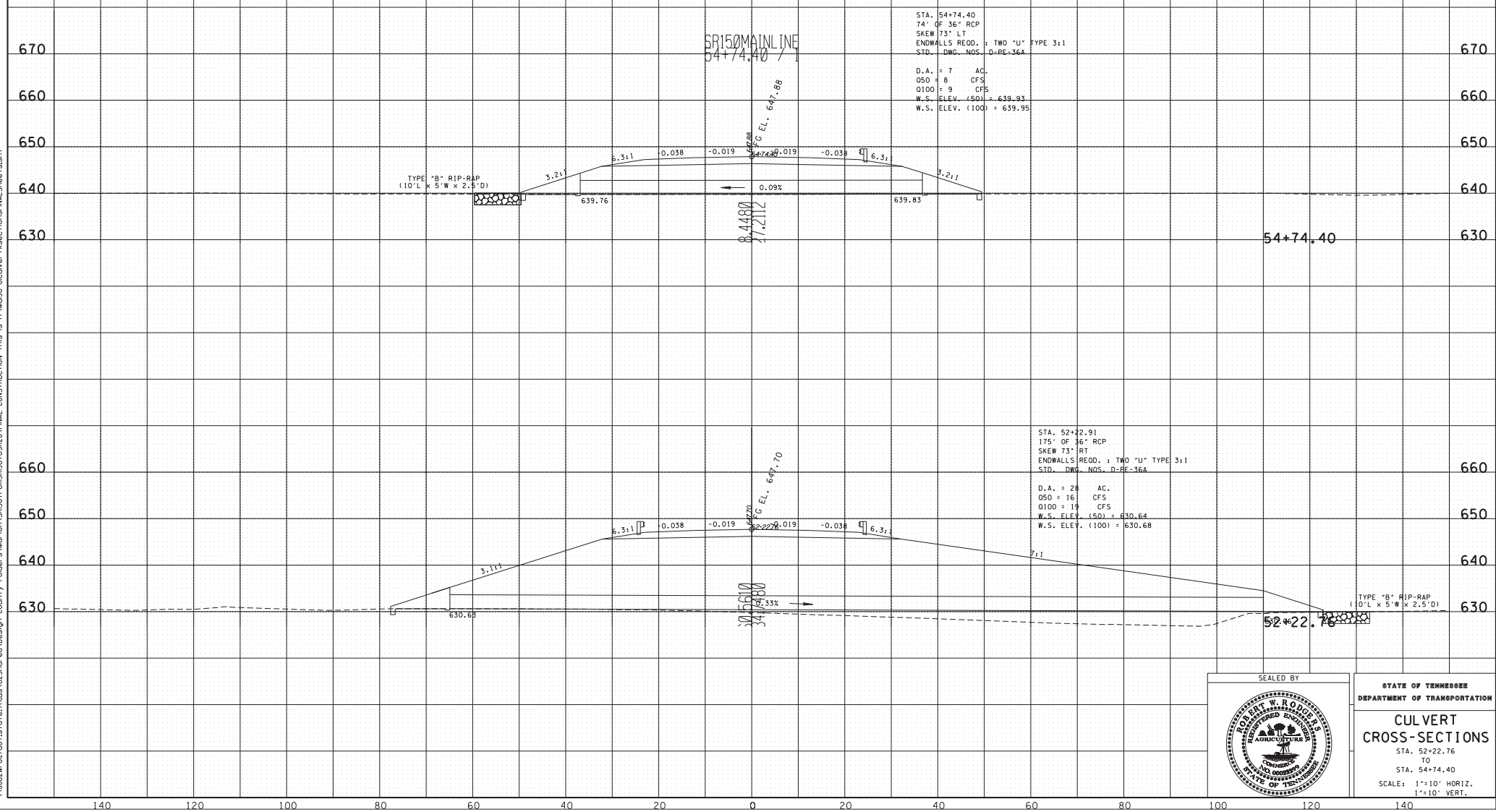
STA. 49+83.09
TO
STA. 51+13.09

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

16-JUN-2015 07:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mal50-01CulvertXsectionsFINALSheets.sht

Rev. 10/31/2013
Update drainage structres & data

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	20C
CONST.	2015	STP-150(4)	21B



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00022099
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 52+22.76
TO
STA. 54+74.40

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

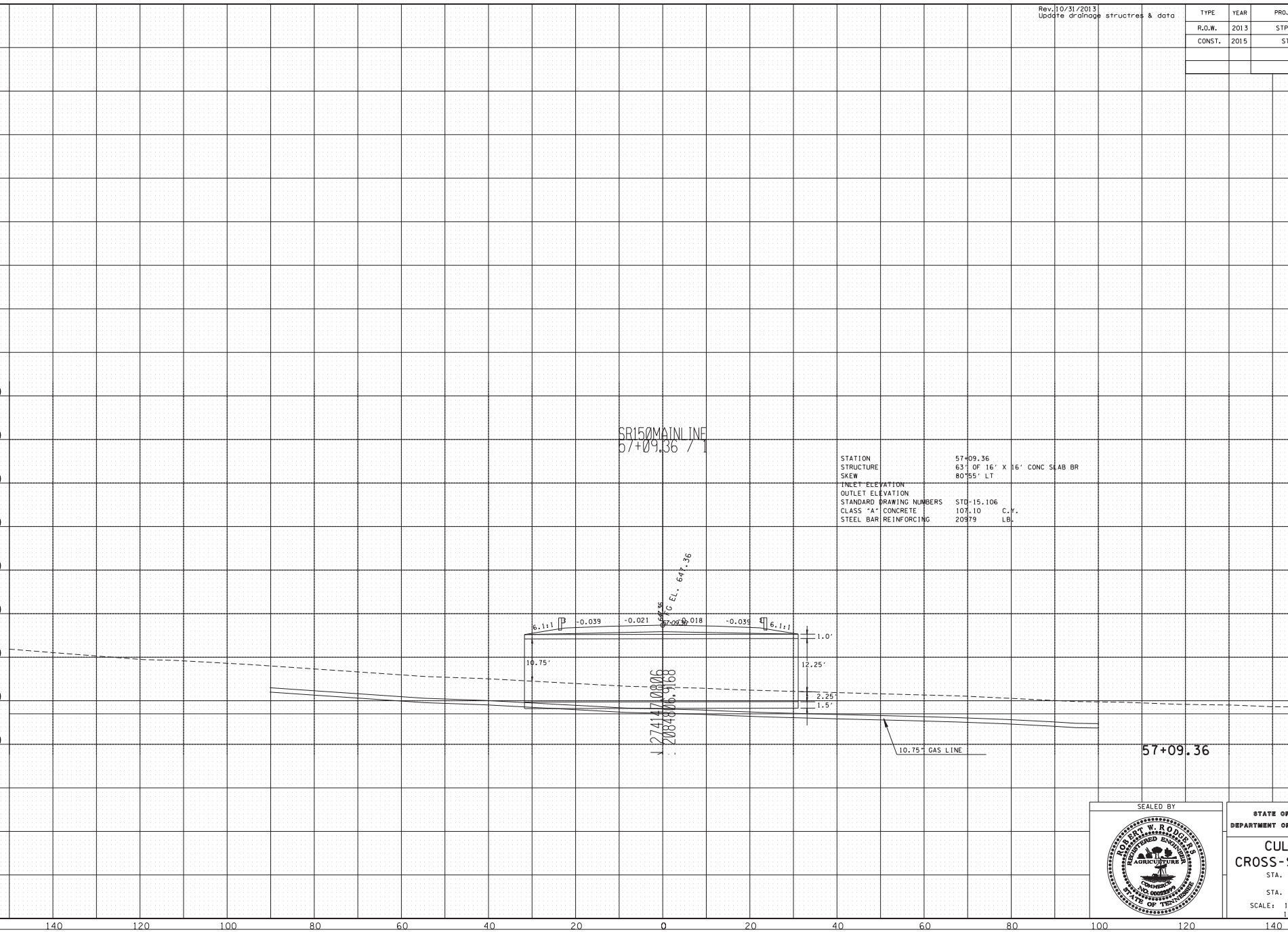
16-JUN-2015 07:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mal50-01CulvertXsectionsFINALSheets.sht

Rev.10/31/2013
Update drainage structres & data

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	20D
CONST.	2015	STP-150(4)	21C

SR150MAINLINE
57+09.36 / 1

STATION	57+09.36	
STRUCTURE	63' OF 16' X 16' CONC SLAB BR	
SKEW	80°55' LT	
INLET ELEVATION		
OUTLET ELEVATION		
STANDARD DRAWING NUMBERS	STD-15.106	
CLASS "A" CONCRETE	107.10	C.Y.
STEEL BAR REINFORCING	20979	LB.



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0000000
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

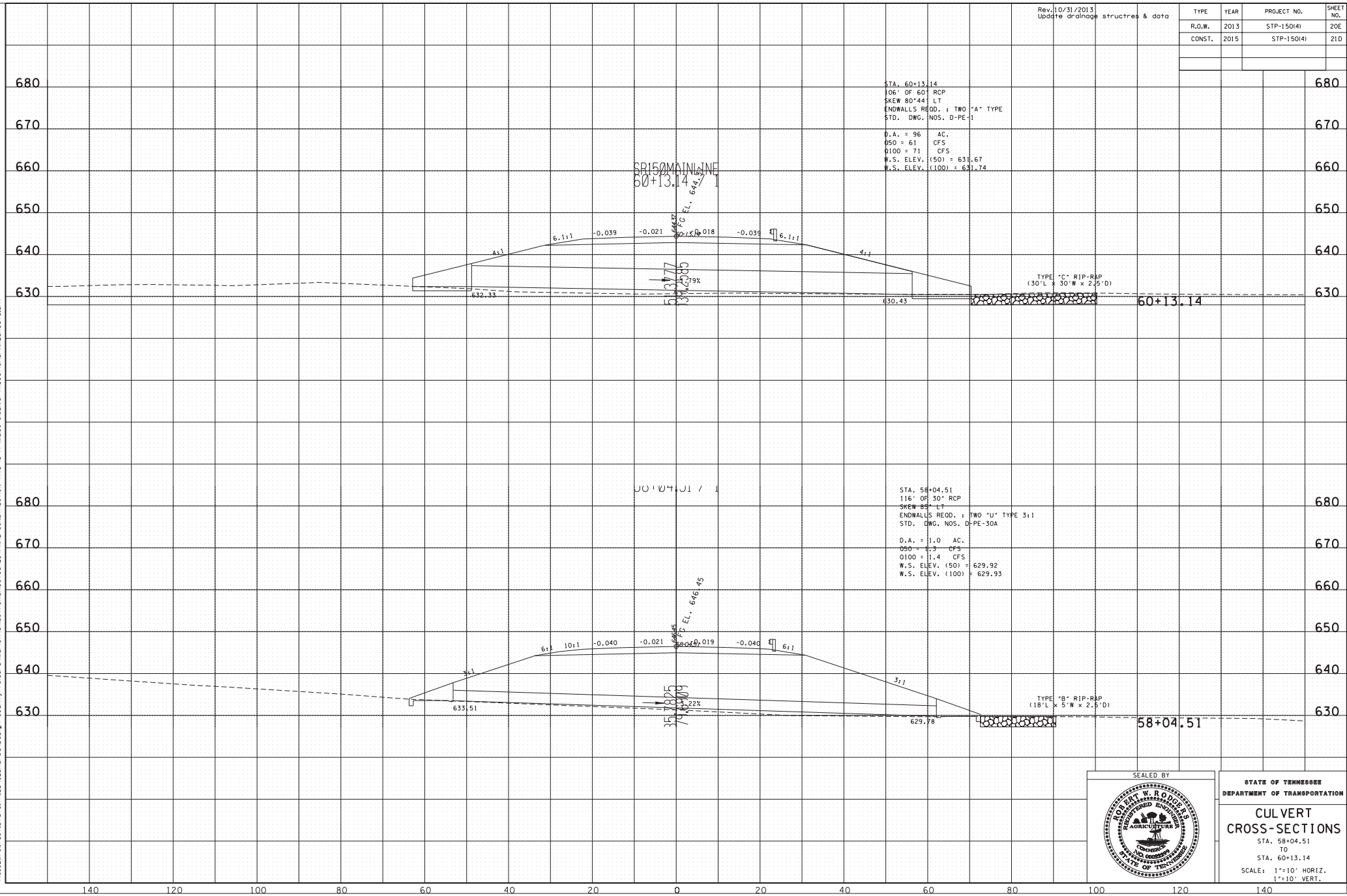
STA. 57+09.36
TO
STA. 57+09.36

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

16-JUN-2015 07:41
\\J02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR61toSR28\FINAL CONSTRUCTION This Is It\Mar150-01CulvertXsectionsFINALSheets.sht

Rev.10/31/2013
Update drainage structres & data

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	20E
CONST.	2015	STP-150(4)	21D



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMERCE
NO. 0000000
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

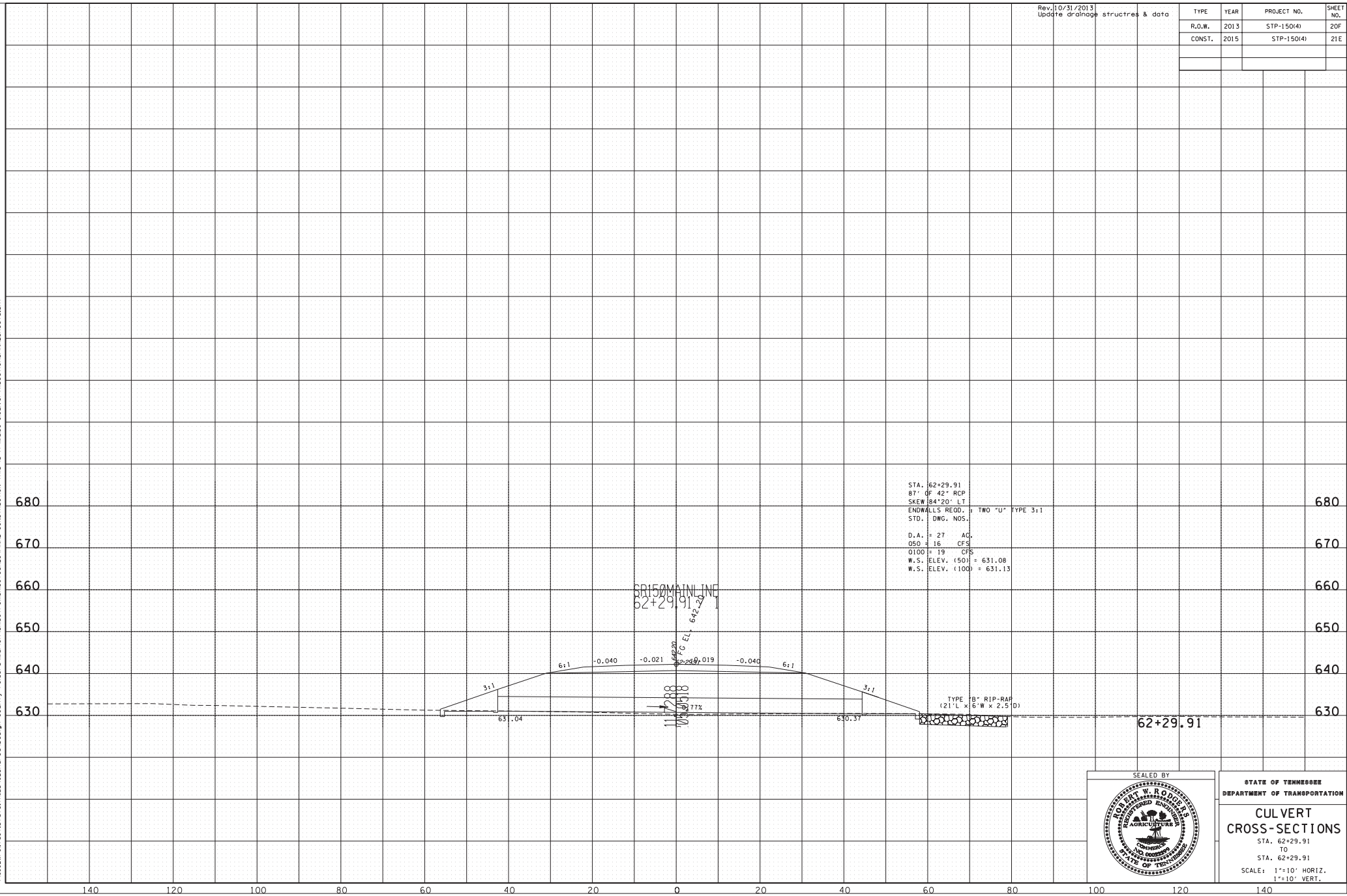
STA. 58+04.51
TO
STA. 60+13.14

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

16-JUN-2015 07:41
\\J02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR50toSR28\FINAL CONSTRUCTION This Is It\Mar150-01CulvertXsectionsFINALSheets.sht

Rev. 10/31/2013
Update drainage structres & data

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	20F
CONST.	2015	STP-150(4)	21E



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00022399
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

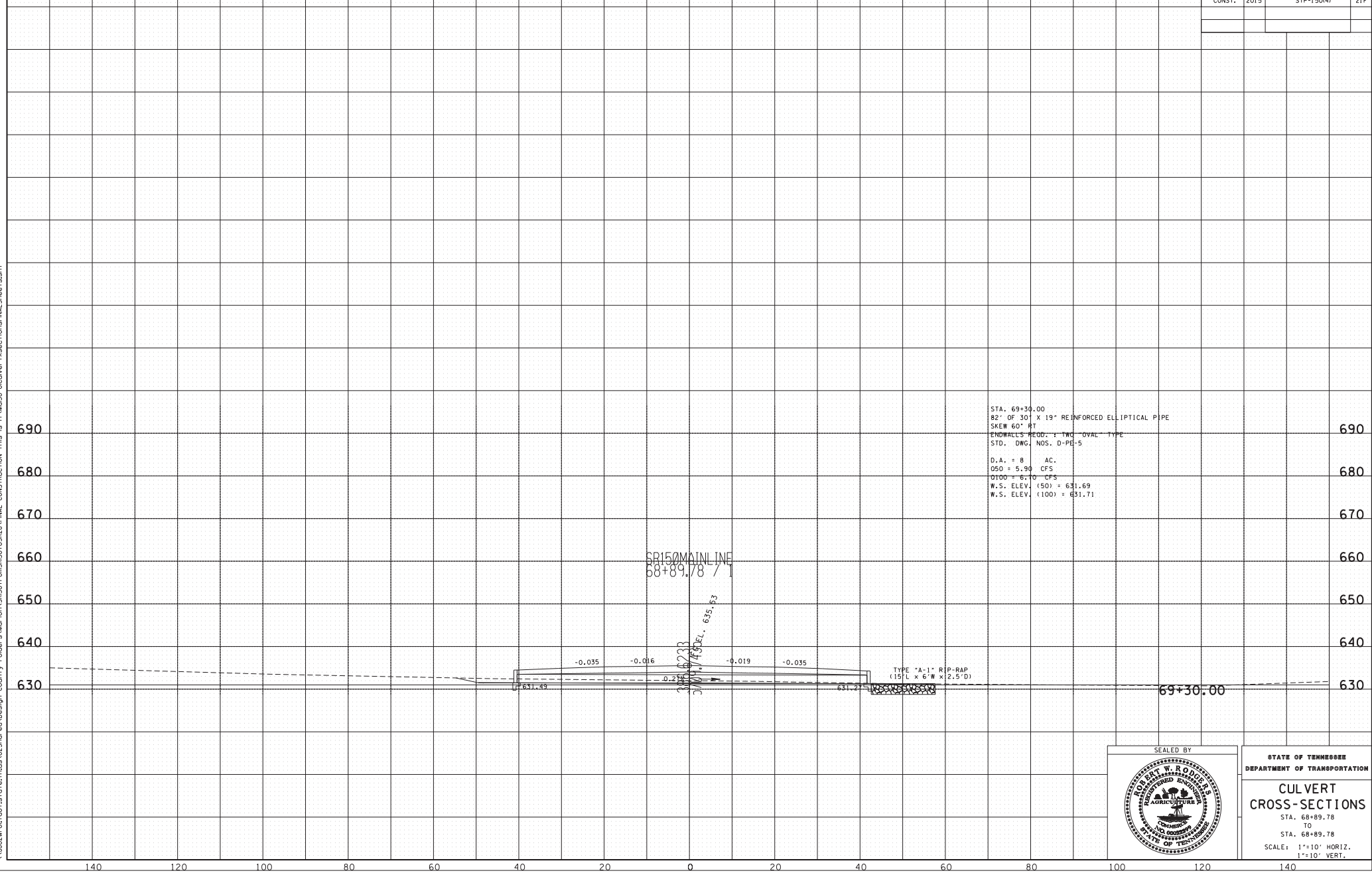
STA. 62+29.91
TO
STA. 62+29.91

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

16-JUN-2015 07:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mal50-01CulvertXsectionsFINALSheets.sht

Rev. 10/31/2013
Update drainage structres & data

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	20G
CONST.	2015	STP-150(4)	21F



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00032399
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

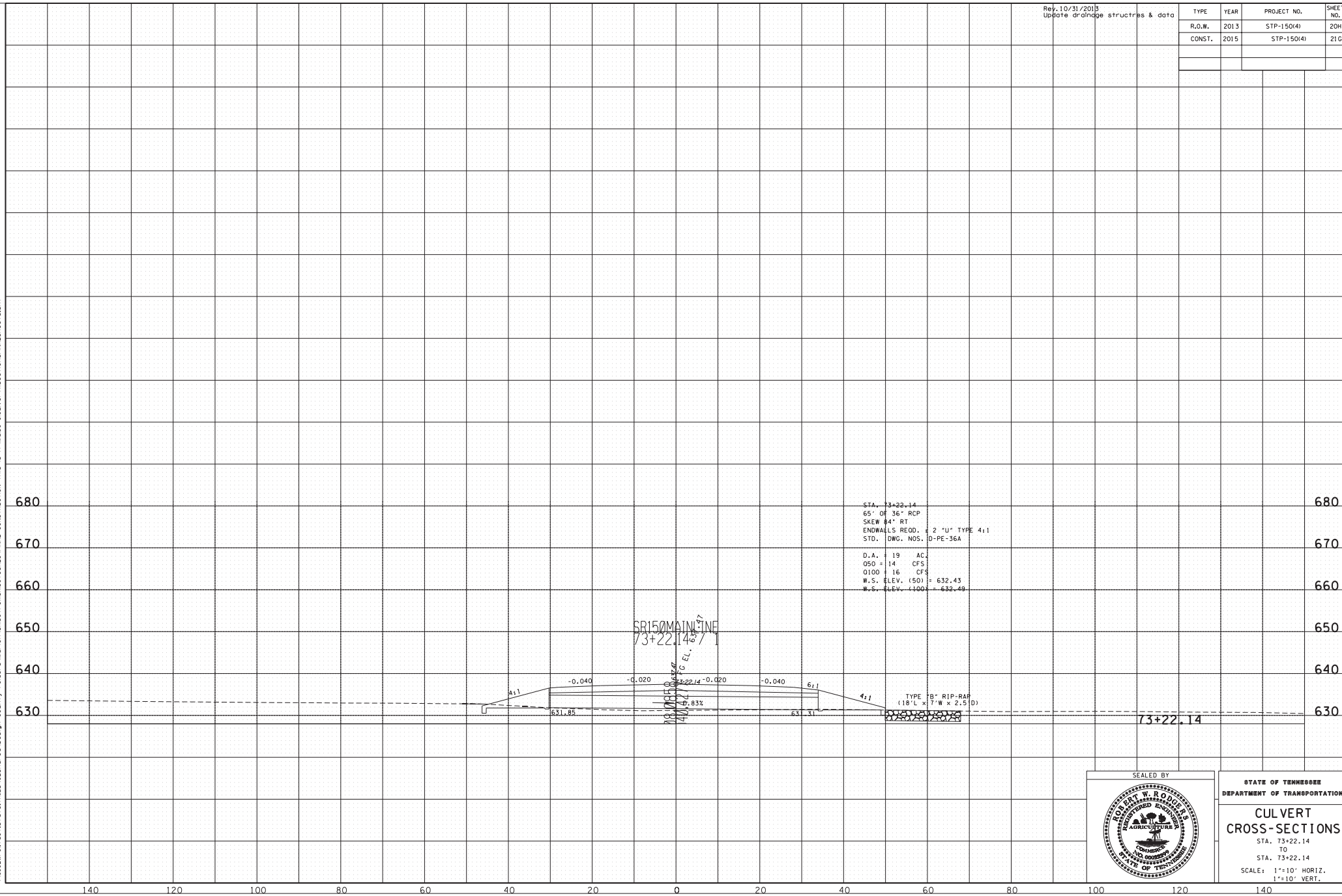
STA. 68+89.78
TO
STA. 68+89.78

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

16-JUN-2015 07:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mal50-01CulvertXsectionsFINALSheets.sht

Rev. 10/31/2013
Update drainage structres & data

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	STP-150(4)	20H
CONST.	2015	STP-150(4)	21G



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00052599
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 73+22.14
TO
STA. 73+22.14

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

16-JUN-2015 07:41
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mal50-01CulvertXsectionsFINALSheets.sht

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15
CONST.	2015	STP-150(4)	22

Rev. 10/31/2013
Update EPSC notes and quantities.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

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

NPDES

(1) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(2) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(3) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

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

(5) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

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

(7) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

UTILITY RELOCATION

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

(9) 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

(10) 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).

(11) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM THEIR CPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BECINNING 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.

(12) 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.

(13) 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.

(14) 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.

(15) 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.

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

(17) 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.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	Road & Drainage Exc. (Unclassified)	C.Y.	8011
209-02.03	8" Temporary Slope Drain	LF	2386
209-05	Sediment Removal	C.Y.	2152
209-08.02	Temporary Silt Fence (With Backing)	LF	46587
209-08.07	Rock Check Dam Per	Each	44
209-09.03	Sediment Filter Bag (15'x15')	EACH	8
209-09.24	Jute Mesh Fabric	S.Y.	6504
209-09.43	Curb Inlet Protection (Type 4)	EACH	13
209-40.47	Catch Basin Filter Assembly (Type 7)	EACH	2
209-65.03	Temporary Diversion Channel	LF	323
209-65.04	Temporary Instream Diversion	LF	1019
707-08.11	High Visibility Fence	LF	9571
709-05.06	Machined Rip-Rap (Class - A1)	TON	380
740-11.05	Sediment Tube - 24"	LF	4552
805-12.01	Erosion Control Blanket (Type I)	S.Y.	30084
805-12.02	Erosion Control Blanket (Type II)	S.Y.	38400
••••••••	Culvert Protection (Type 1)	•••••	••••••
303-10.01	Mineral Aggregate (Size 57)	TON	406
709-05.06	Machined Rip-Rap (Class - A1)	TON	406
740-10.03	Geotextile (Type III) (Erosion Control)	S.Y.	952
••••••••	Temporary Construction Exit	•••••	••••••
709-05.05	Machined Rip-Rap (Class A-3)	TON	300
740-10.03	Geotextile (Type III) (Erosion Control)	S.Y.	516

* For Temporary Berm

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

16-JUL-2015 07:27
\\JJ02WFOL\tdot.state.tn.us\02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\022.erosion notes.SHT

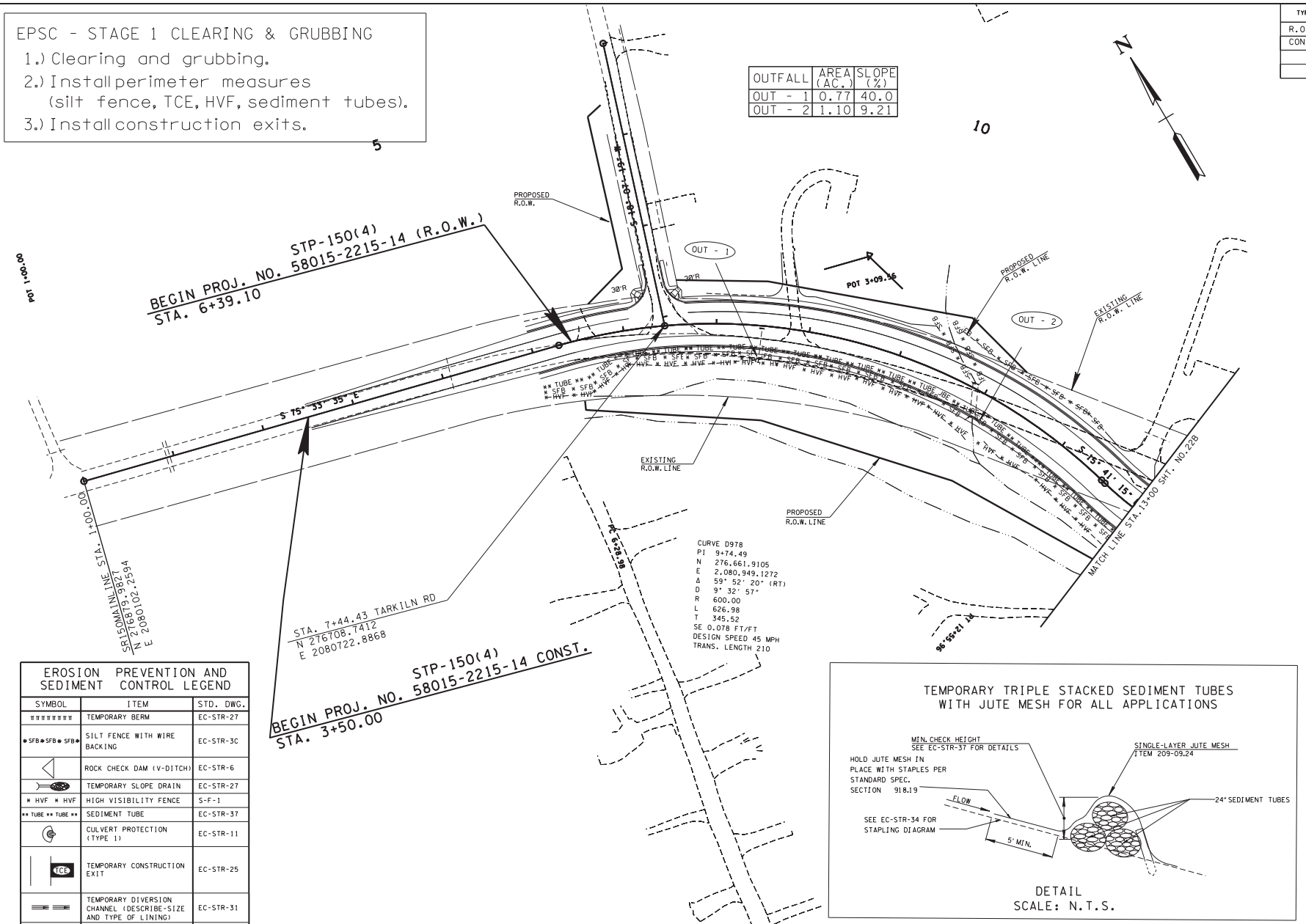
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15A
CONST.	2015	STP-150(4)	22A

EPSC - STAGE 1 CLEARING & GRUBBING

1.) Clearing and grubbing.
2.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
3.) Install construction exits.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 1	0.77	40.0
OUT - 2	1.10	9.21



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	TEMPORARY BERM	EC-STR-27
SFB SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	TEMPORARY SLOPE DRAIN	EC-STR-27
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
IN DIV	INSTREAM DIVERSION	EC-STR-3O EC-STR-30A
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

TEMPORARY TRIPLE STACKED SEDIMENT TUBES WITH JUTE MESH FOR ALL APPLICATIONS

DETAIL
SCALE: N.T.S.

STAGE 1

SEALED BY

ROBERT W. RODDEN JR. REGISTERED ENGINEER AGRICULTURE COMMERCE AND INFRASTRUCTURE STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 1+00 TO STA. 13+00
SCALE: 1"= 50'

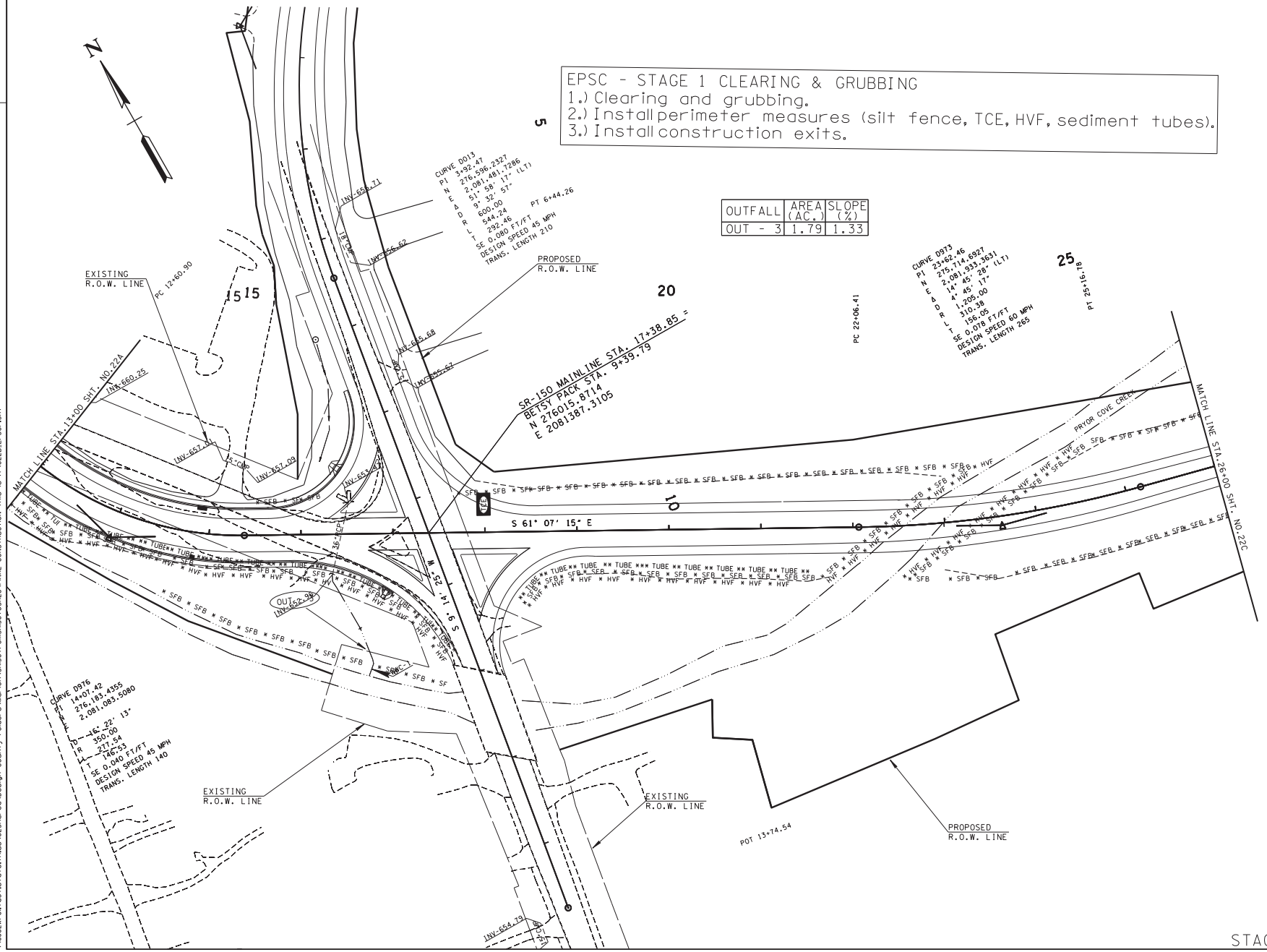
16-JUL-2015 07:28
\\JO2WF01.tdot.state.tn.us\O2Shared\Design County Folders\Marion\SR150fromSR61toSR28\FINAL CONSTRUCTION\ This is I:\O22A_EPSCP.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15B
CONST.	2015	STP-150(4)	22B

EPSC - STAGE 1 CLEARING & GRUBBING
1.) Clearing and grubbing.
2.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
3.) Install construction exits.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 3	1.79	1.33



STAGE 1

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

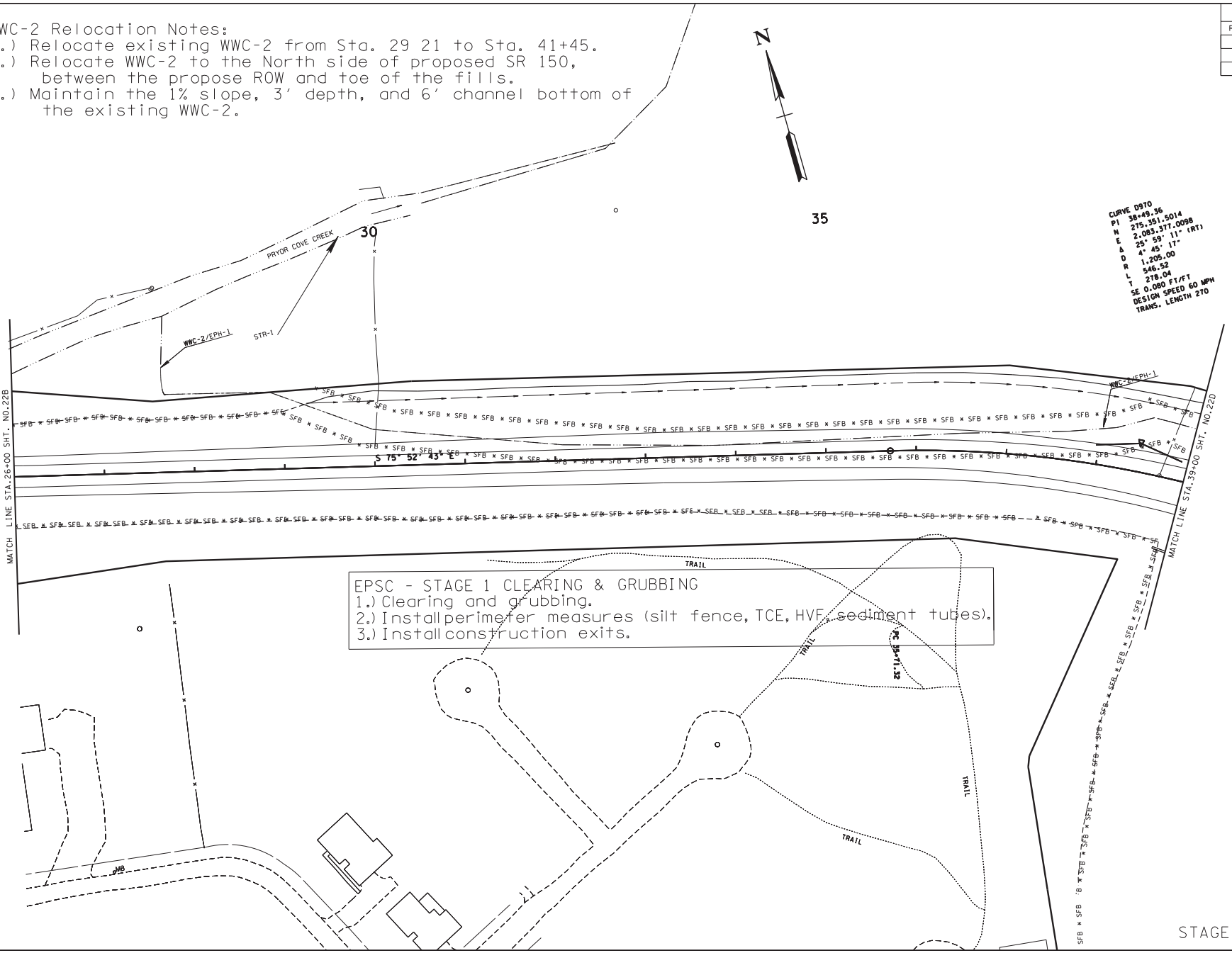
STA. 13+00 TO STA. 26+00
SCALE: 1"= 50'

16-JUL-2015 07:28
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is 1+\022B_EPSCP.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15C
CONST.	2015	STP-150(4)	22C

WWC-2 Relocation Notes:
1.) Relocate existing WWC-2 from Sta. 29 21 to Sta. 41+45.
2.) Relocate WWC-2 to the North side of proposed SR 150, between the propose ROW and toe of the fills.
3.) Maintain the 1% slope, 3' depth, and 6' channel bottom of the existing WWC-2.



STAGE 1

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
No. 0000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 26+00 TO STA. 39+00
SCALE: 1"= 50'

16-JUL-2015 07:28
\\JU02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR150fromSR61toSR28\FINAL CONSTRUCTION This is I:\022C_EPSCP.SHT

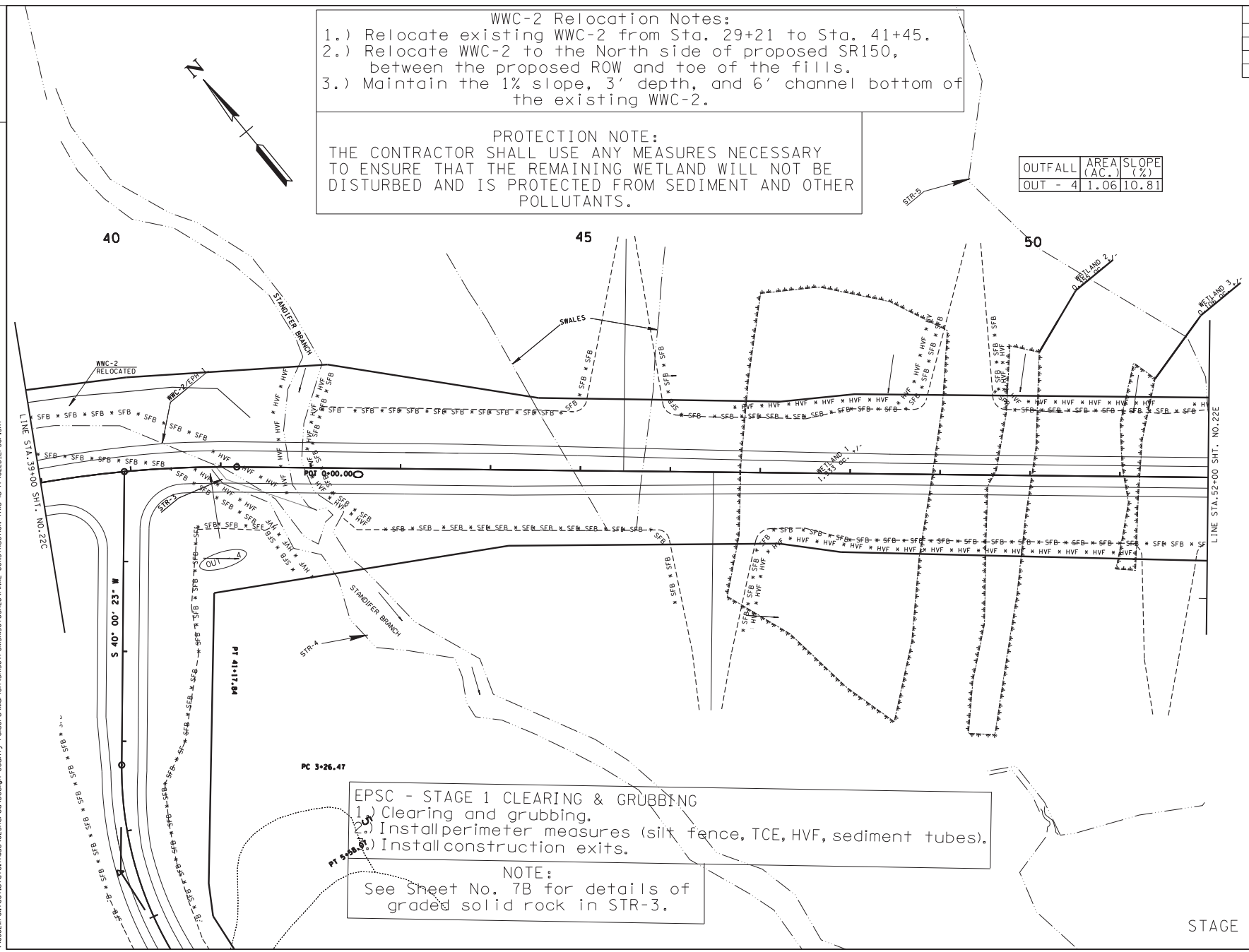
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15D
CONST.	2015	STP-150(4)	22D

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

WWC-2 Relocation Notes:
1.) Relocate existing WWC-2 from Sta. 29+21 to Sta. 41+45.
2.) Relocate WWC-2 to the North side of proposed SR150, between the proposed ROW and toe of the fills.
3.) Maintain the 1% slope, 3' depth, and 6' channel bottom of the existing WWC-2.

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

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 4	1.06	10.81



EPSC - STAGE 1 CLEARING & GRUBBING
1.) Clearing and grubbing.
2.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
3.) Install construction exits.

NOTE:
See Sheet No. 7B for details of graded solid rock in STR-3.

STAGE 1

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00022599
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

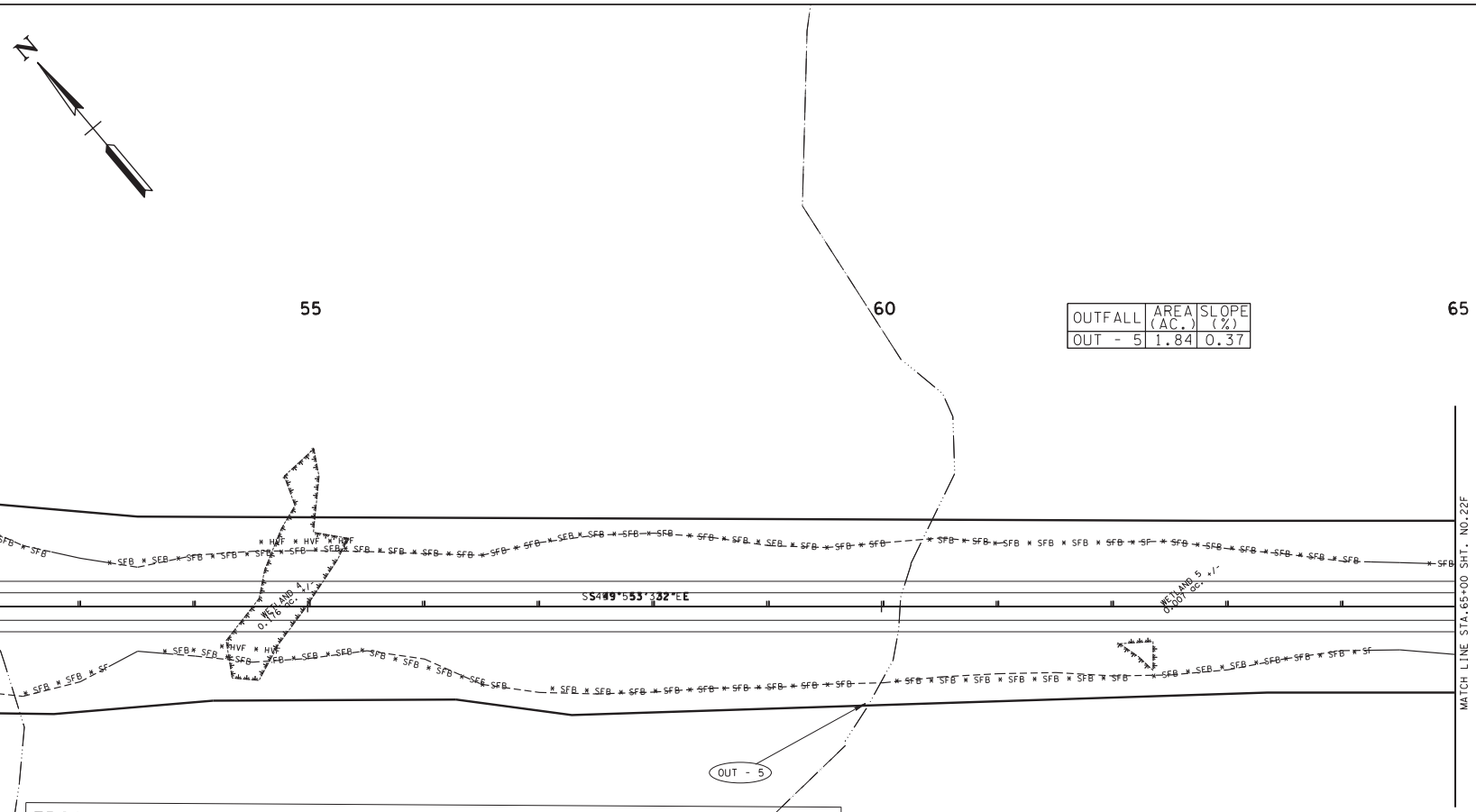
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 39+00 TO STA. 52+00
SCALE: 1"= 50'

16-JUL-2015 07:28
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\022D_EPSCP.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15E
CONST.	2015	STP-150(4)	22E

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



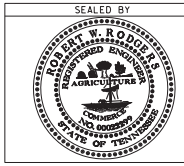
OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 5	1.84	0.37

EPSC - STAGE 1 CLEARING & GRUBBING
1.) Clearing and grubbing.
2.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
3.) Install construction exits.

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

STAGE 1

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

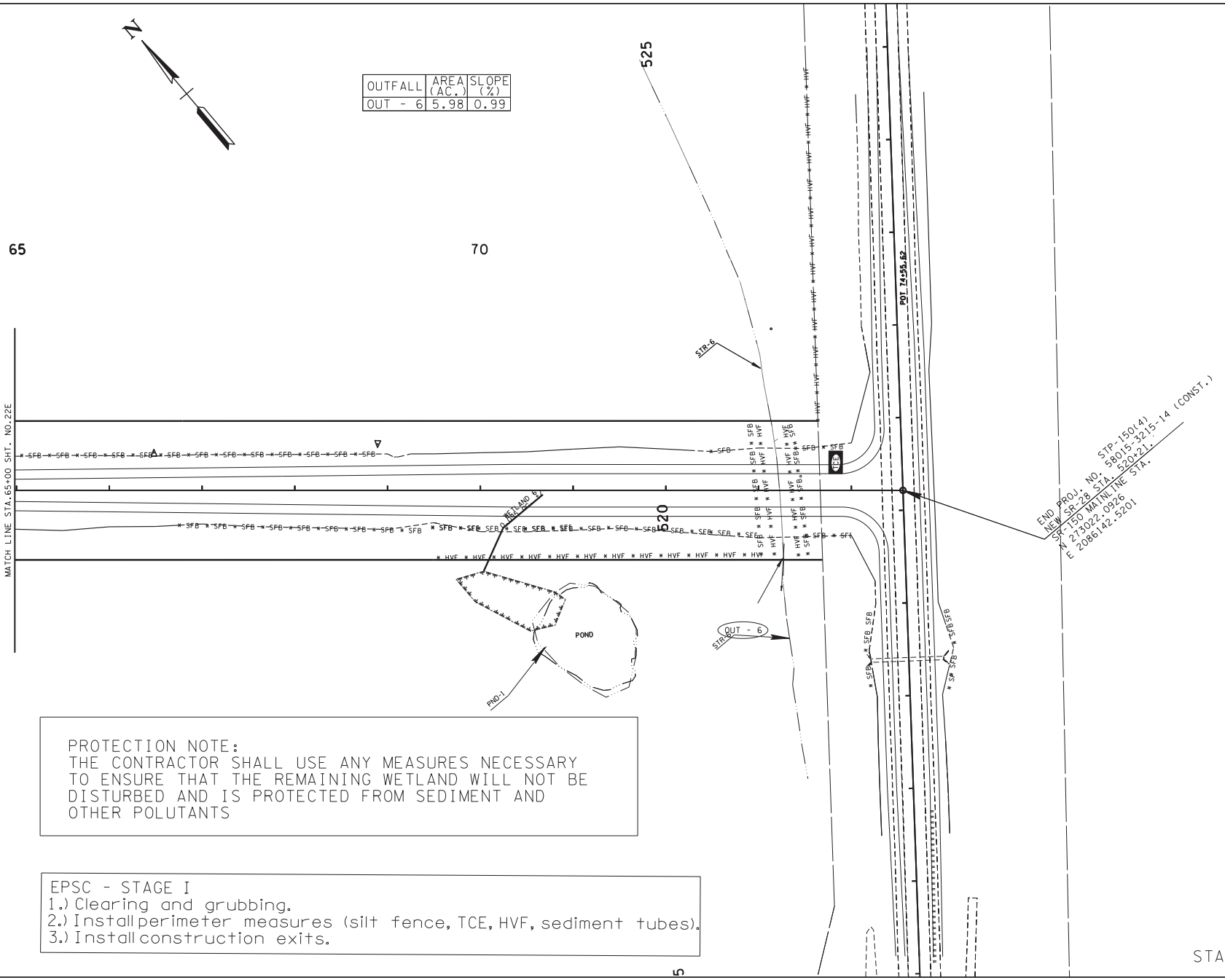
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 52+00 TO STA. 65+00
SCALE: 1"= 50'

16-JUL-2015 07:28
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\022E.EPSCP.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15F
CONST.	2015	STP-150(4)	22F

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 6	5.98	0.99



PROTECTION NOTE:
THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT THE REMAINING WETLAND WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLUTANTS

EPSC - STAGE I
1.) Clearing and grubbing.
2.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
3.) Install construction exits.

STAGE 1

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00055099
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 65+00 TO STA. 75+00
SCALE: 1"= 50'

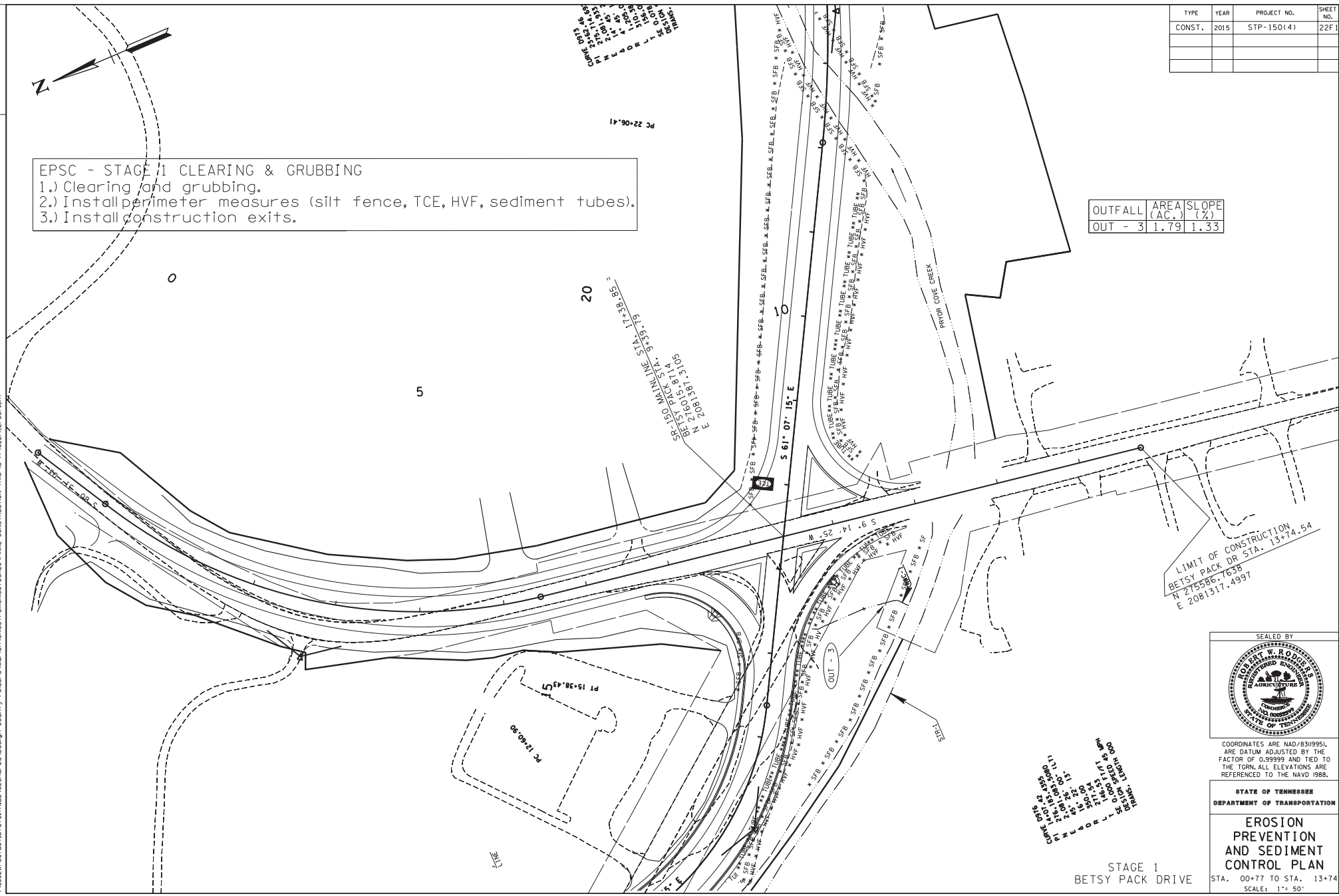
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

16-JUL-2015 07:28
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\022F_EPSCP.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	22F1

EPSC - STAGE 1 CLEARING & GRUBBING
1.) Clearing and grubbing.
2.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
3.) Install construction exits.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 3	1.79	1.33



STAGE 1
BETSY PACK DRIVE

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00052599
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 00+77 TO STA. 13+74
SCALE: 1"= 50'

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

16-JUL-2015 07:28
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\022FI.EPSCP.SHT

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

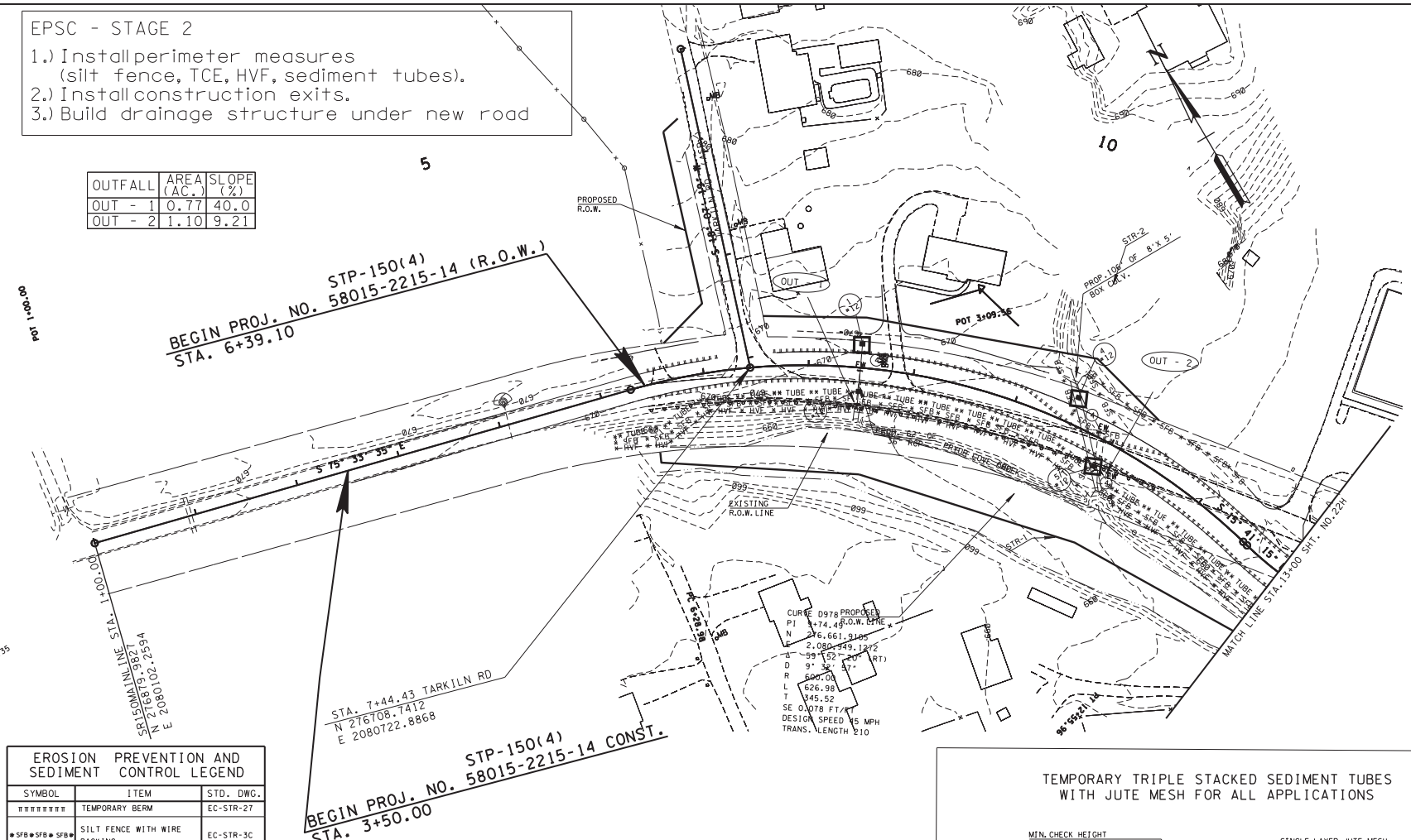
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15A
CONST.	2015	STP-150(4)	22G

Rev. 10/11/2012
Add high visibility fencing, triple sediment tubes installation detail.

EPSC - STAGE 2

1.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
2.) Install construction exits.
3.) Build drainage structure under new road

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 1	0.77	40.0
OUT - 2	1.10	9.21



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
TTTTTTTTT	TEMPORARY BERM	EC-STR-27
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	TEMPORARY SLOPE DRAIN	EC-STR-27
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

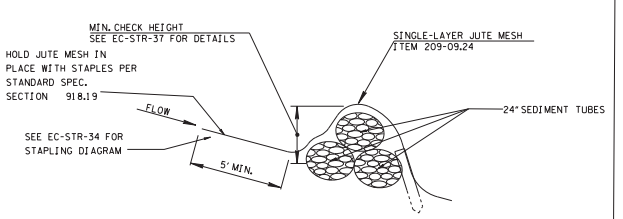
PHASING NARRATION

STAGE 1: CLEARING AND GRUBBING.

STAGE 2: TRAFFIC TO USE EXISTING ROAD. CONSTRUCT PROPOSED ROAD. BUILD DRAINAGE STRUCTURES UNDER NEW ROAD. MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND SIDE ROADS.

STAGE 3: SHIFT TRAFFIC TO NEW ROADWAY AREA. BUILD REMAINING ROAD AND ACCESS. FINISH DRAINAGE STRUCTURES.

TEMPORARY TRIPLE STACKED SEDIMENT TUBES WITH JUTE MESH FOR ALL APPLICATIONS



DETAIL
SCALE: N.T.S.

STAGE 2

SEALED BY
ROBERT W. RODDEN
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.0999999 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 1+00 TO STA. 13+00
SCALE: 1" = 50'

16-JUL-2015 07:29
\\JO2WF01.tdot.state.tn.us\O2Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is I:\O22G.EPSCP.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15B
CONST.	2015	STP-150(4)	22H

Rev. 10/11/2012
Add high visibility fencing and triple sediment tubes.

EPSC - STAGE 2

1.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
2.) Install construction exits.
3.) Build drainage structure under new road.

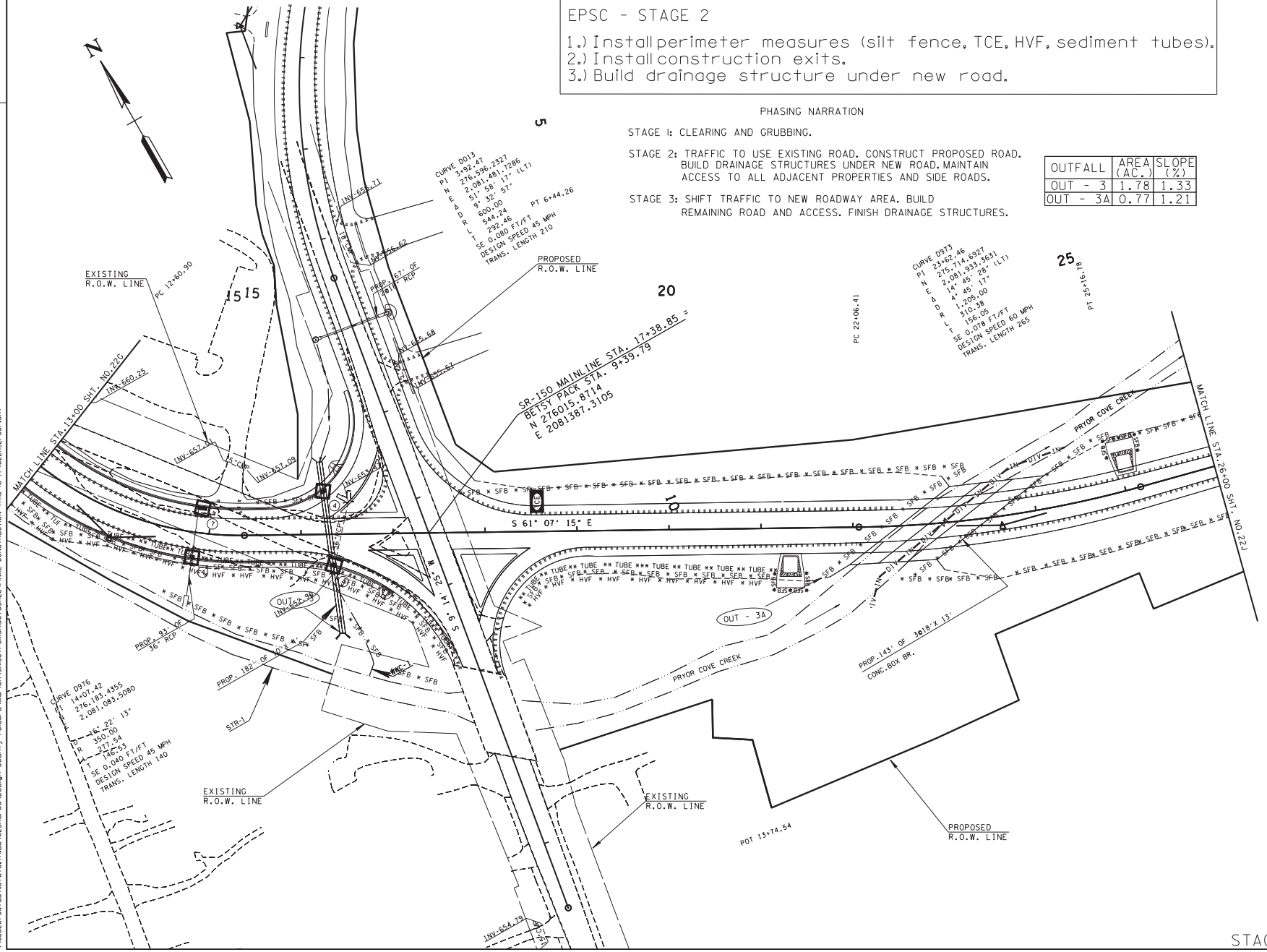
PHASING NARRATION

STAGE 1: CLEARING AND GRUBBING.

STAGE 2: TRAFFIC TO USE EXISTING ROAD. CONSTRUCT PROPOSED ROAD. BUILD DRAINAGE STRUCTURES UNDER NEW ROAD. MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND SIDE ROADS.

STAGE 3: SHIFT TRAFFIC TO NEW ROADWAY AREA. BUILD REMAINING ROAD AND ACCESS. FINISH DRAINAGE STRUCTURES.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 3	1.78	1.33
OUT - 3A	0.77	1.21



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00035099
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 13+00 TO STA. 26+00
SCALE: 1"= 50'

STAGE 2

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

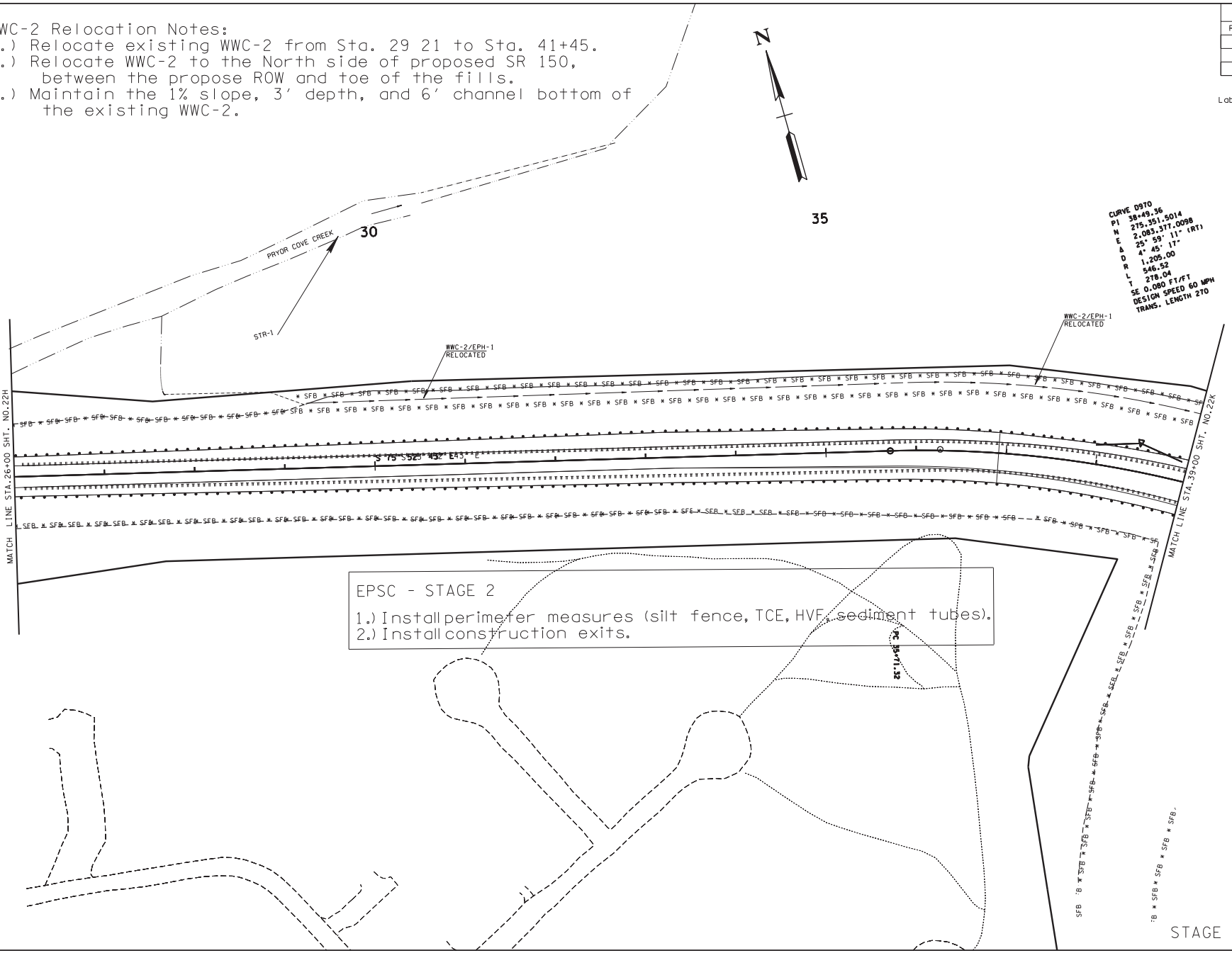
16-JUL-2015 07:29
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\022H_EPSCP.SHT

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

WWC-2 Relocation Notes:
1.) Relocate existing WWC-2 from Sta. 29 21 to Sta. 41+45.
2.) Relocate WWC-2 to the North side of proposed SR 150, between the propose ROW and toe of the fills.
3.) Maintain the 1% slope, 3' depth, and 6' channel bottom of the existing WWC-2.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15C
CONST.	2015	STP-150(4)	22J

Rev. 10/11/2012
Label environmental boundaries.



SEALED BY
ROBERT W. RODGERS
REGISTERED ENGINEER
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 26+00 TO STA. 39+00
SCALE: 1"= 50'

16-JUL-2015 07:29
\\J02MF0L\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\022J.EPSCP.SHT

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

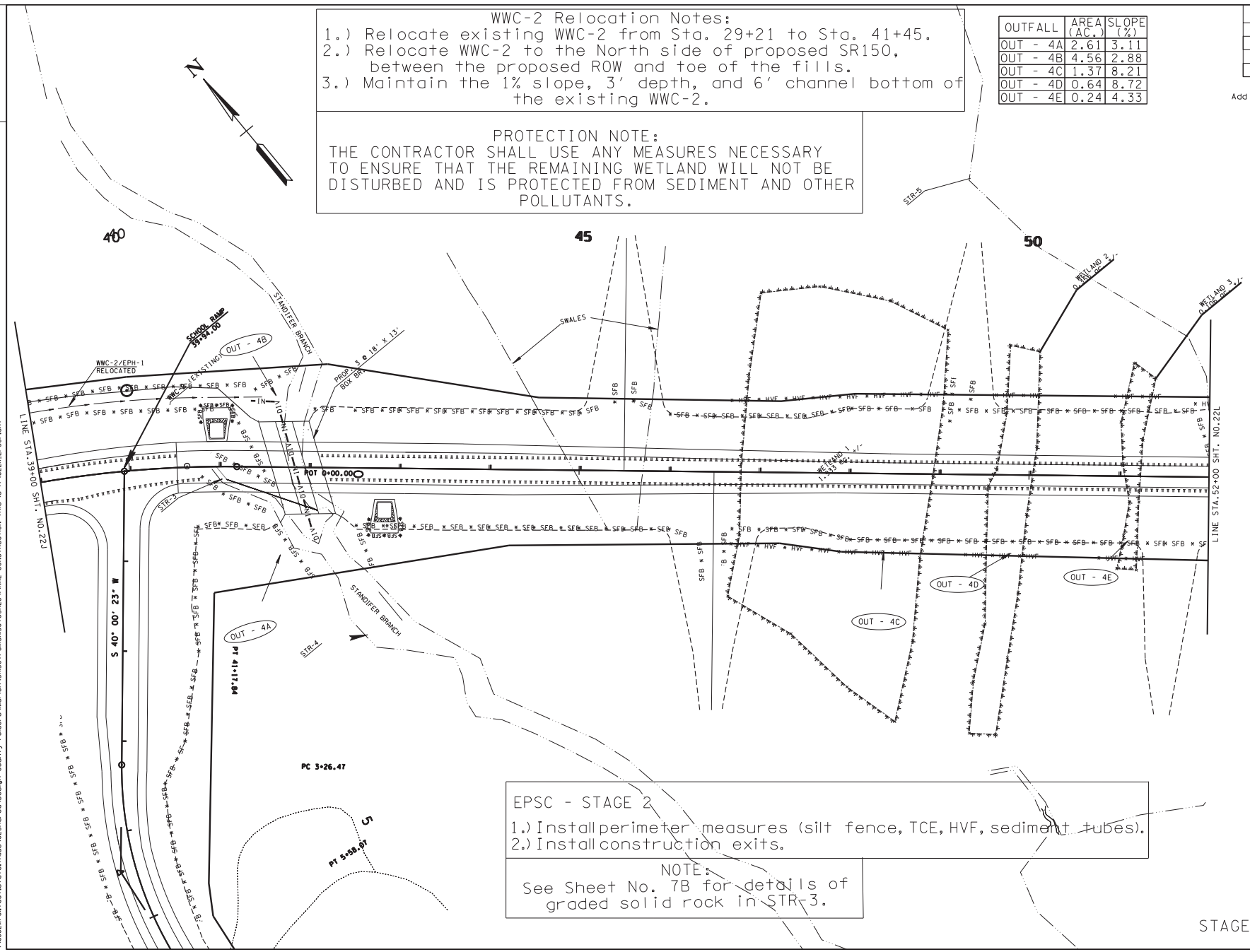
WWC-2 Relocation Notes:
1.) Relocate existing WWC-2 from Sta. 29+21 to Sta. 41+45.
2.) Relocate WWC-2 to the North side of proposed SR150, between the proposed ROW and toe of the fills.
3.) Maintain the 1% slope, 3' depth, and 6' channel bottom of the existing WWC-2.

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

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 4A	2.61	3.11
OUT - 4B	4.56	2.88
OUT - 4C	1.37	8.21
OUT - 4D	0.64	8.72
OUT - 4E	0.24	4.33

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15D
CONST.	2015	STP-150(4)	22K

Rev. 10/11/2012
Add environmental boundaries and High Visibility Fencing.



EPSC - STAGE 2
1.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
2.) Install construction exits.

NOTE:
See Sheet No. 7B for details of graded solid rock in STR-3.

STAGE 2

SEALED BY
ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00025592
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 39+00 TO STA. 52+00
SCALE: 1"= 50'

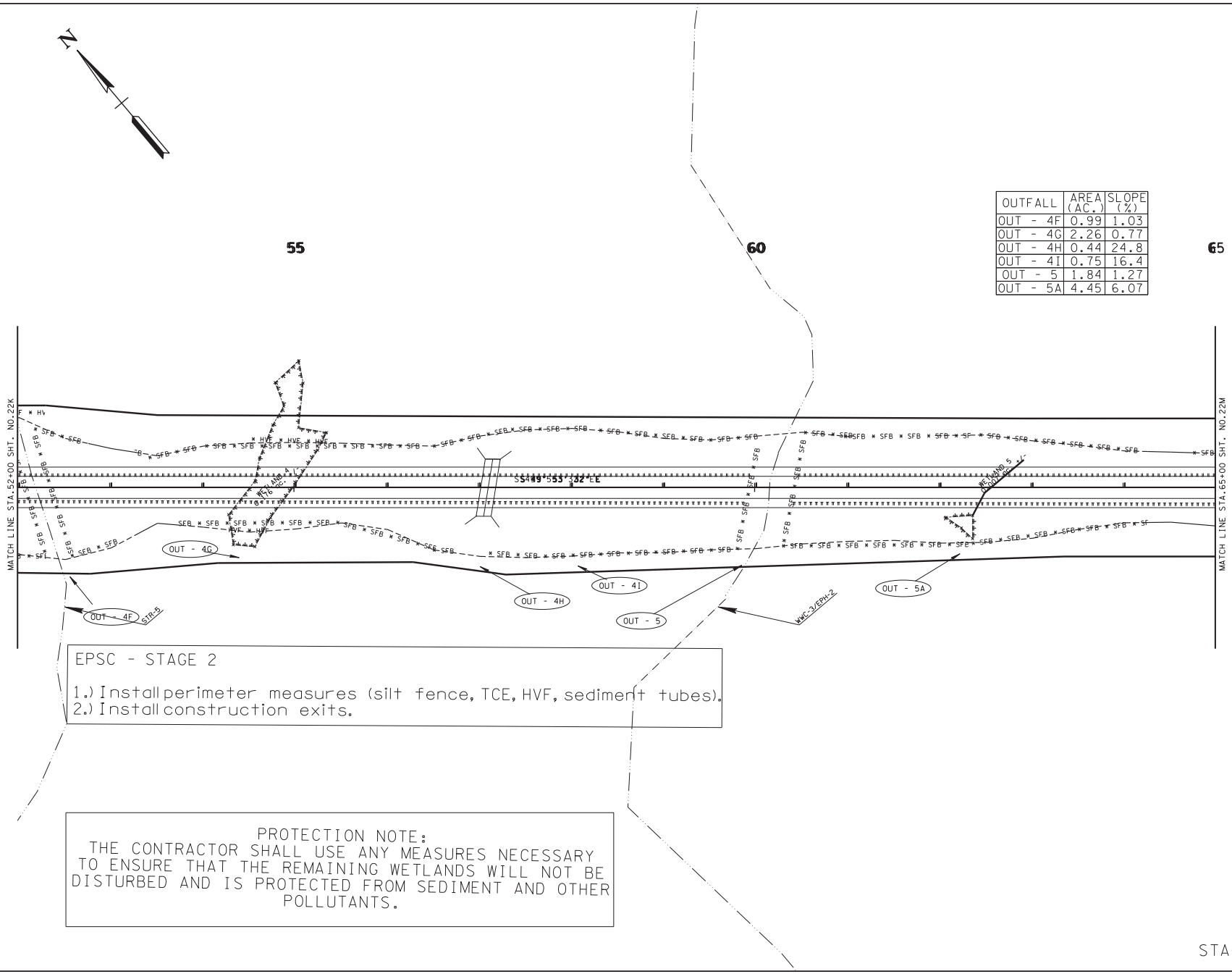
16-JUL-2015 07:29
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\022K_EPSCP.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15E
CONST.	2015	STP-150(4)	22L

Rev. 10/11/2012
Add environmental boundaries.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 4F	0.99	1.03
OUT - 4G	2.26	0.77
OUT - 4H	0.44	24.8
OUT - 4I	0.75	16.4
OUT - 5	1.84	1.27
OUT - 5A	4.45	6.07



EPSC - STAGE 2

1.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
2.) Install construction exits.

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

STAGE 2

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

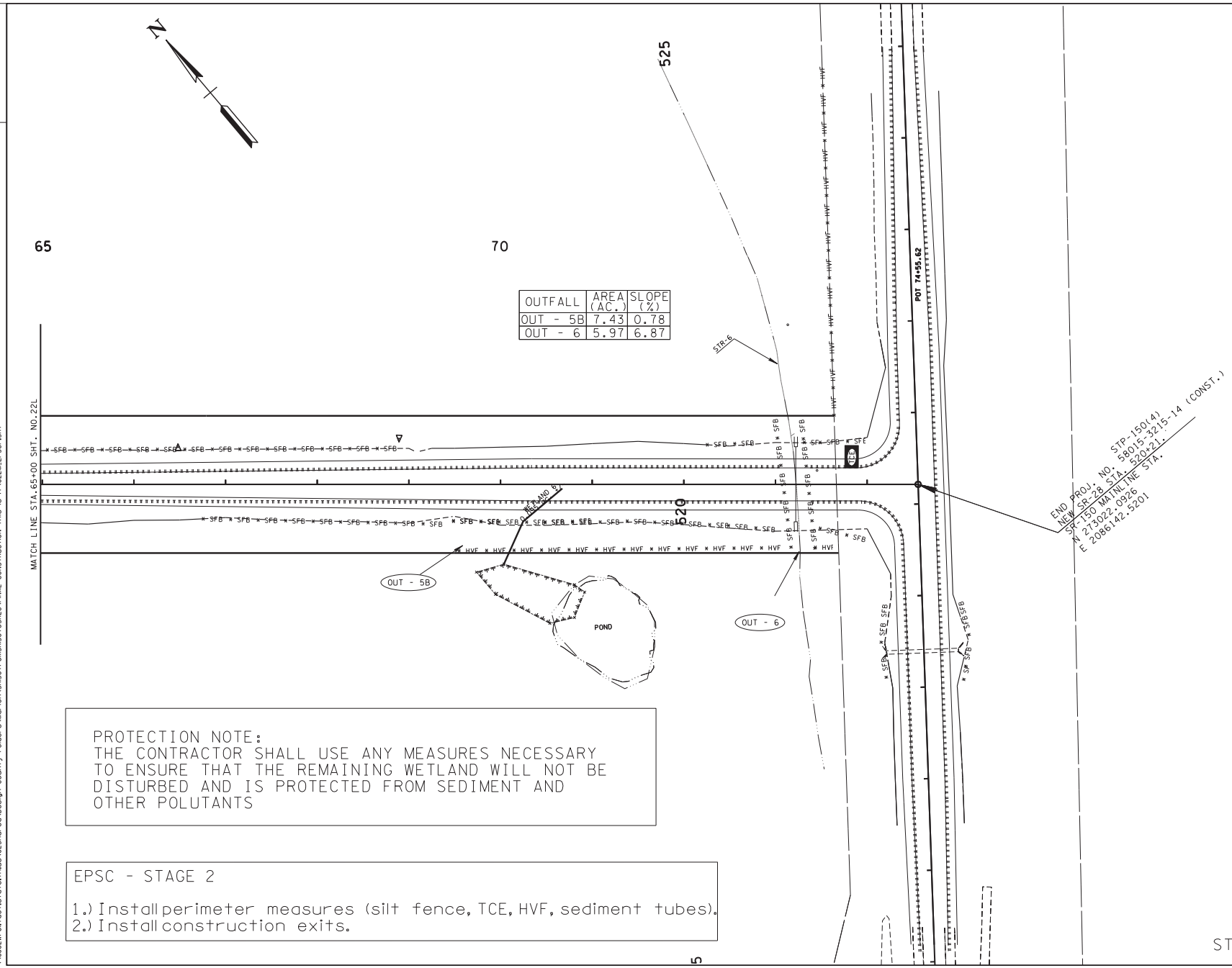
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 52+00 TO STA. 65+00
SCALE: 1"= 50'

16-JUL-2015 07:29
\\J02WF01.tdot.state.tn.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\022L_EPSCP.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15F
CONST.	2015	STP-150(4)	22M

Rev. 10/11/2012
Add environmental boundaries.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 5B	7.43	0.78
OUT - 6	5.97	6.87

PROTECTION NOTE:
THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT THE REMAINING WETLAND WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLUTANTS

EPSC - STAGE 2

1.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
2.) Install construction exits.

STAGE 2

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 65+00 TO STA. 75+00
SCALE: 1"= 50'

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

16-JUL-2015 07:29
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\022M.EPSCP.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	22M1

PHASING NARRATION

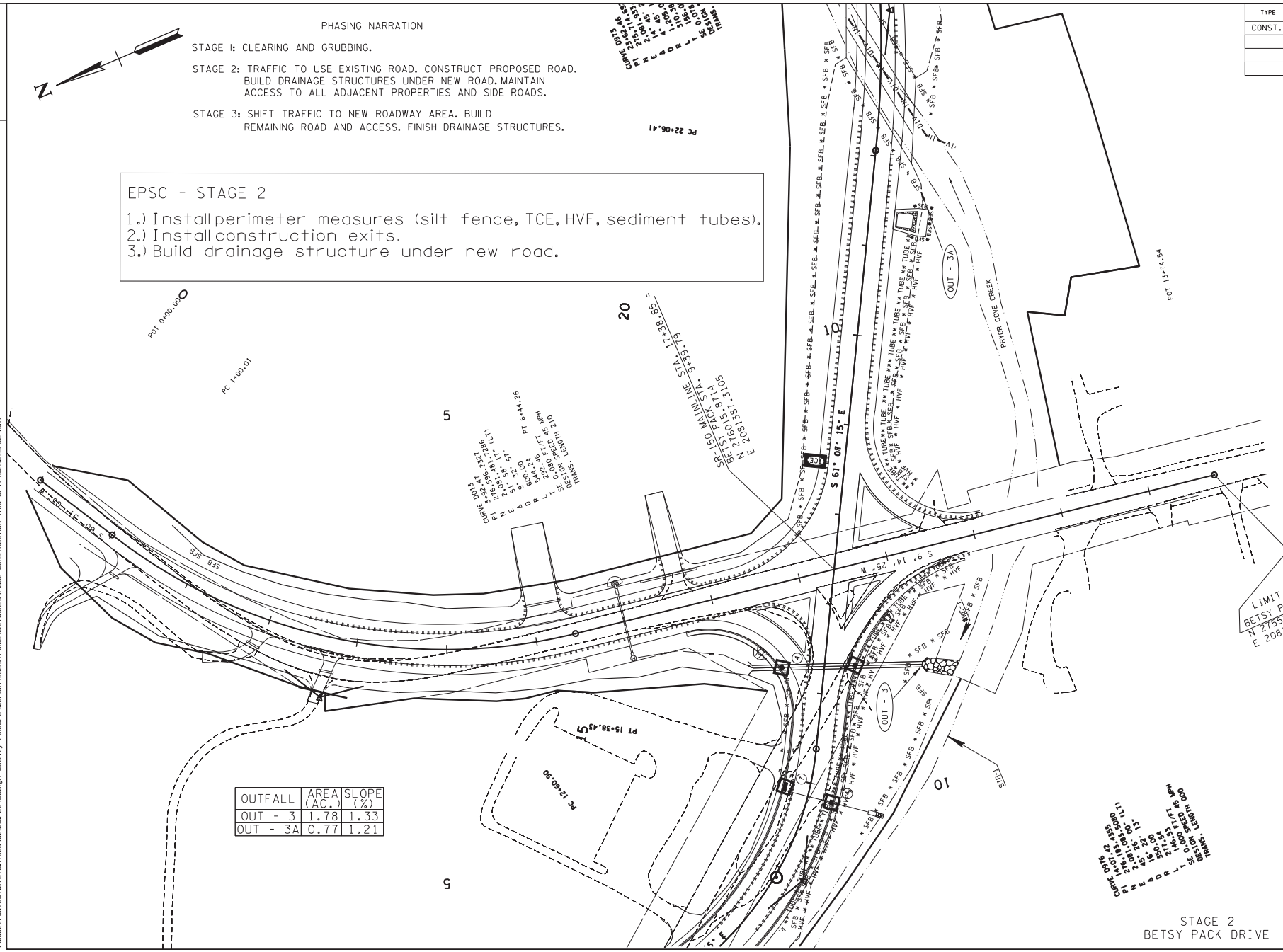
STAGE 1: CLEARING AND GRUBBING.

STAGE 2: TRAFFIC TO USE EXISTING ROAD. CONSTRUCT PROPOSED ROAD. BUILD DRAINAGE STRUCTURES UNDER NEW ROAD. MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND SIDE ROADS.

STAGE 3: SHIFT TRAFFIC TO NEW ROADWAY AREA. BUILD REMAINING ROAD AND ACCESS. FINISH DRAINAGE STRUCTURES.

EPSC - STAGE 2

1.) Install perimeter measures (silt fence, TCE, HVF, sediment tubes).
2.) Install construction exits.
3.) Build drainage structure under new road.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 3	1.78	1.33
OUT - 3A	0.77	1.21

STAGE 2
BETSY PACK DRIVE

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00022899
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 00+77 TO STA. 13+74
SCALE: 1"= 50'

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

17-JUL-2015 09:01
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\022M1_EPSCP.SHT

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

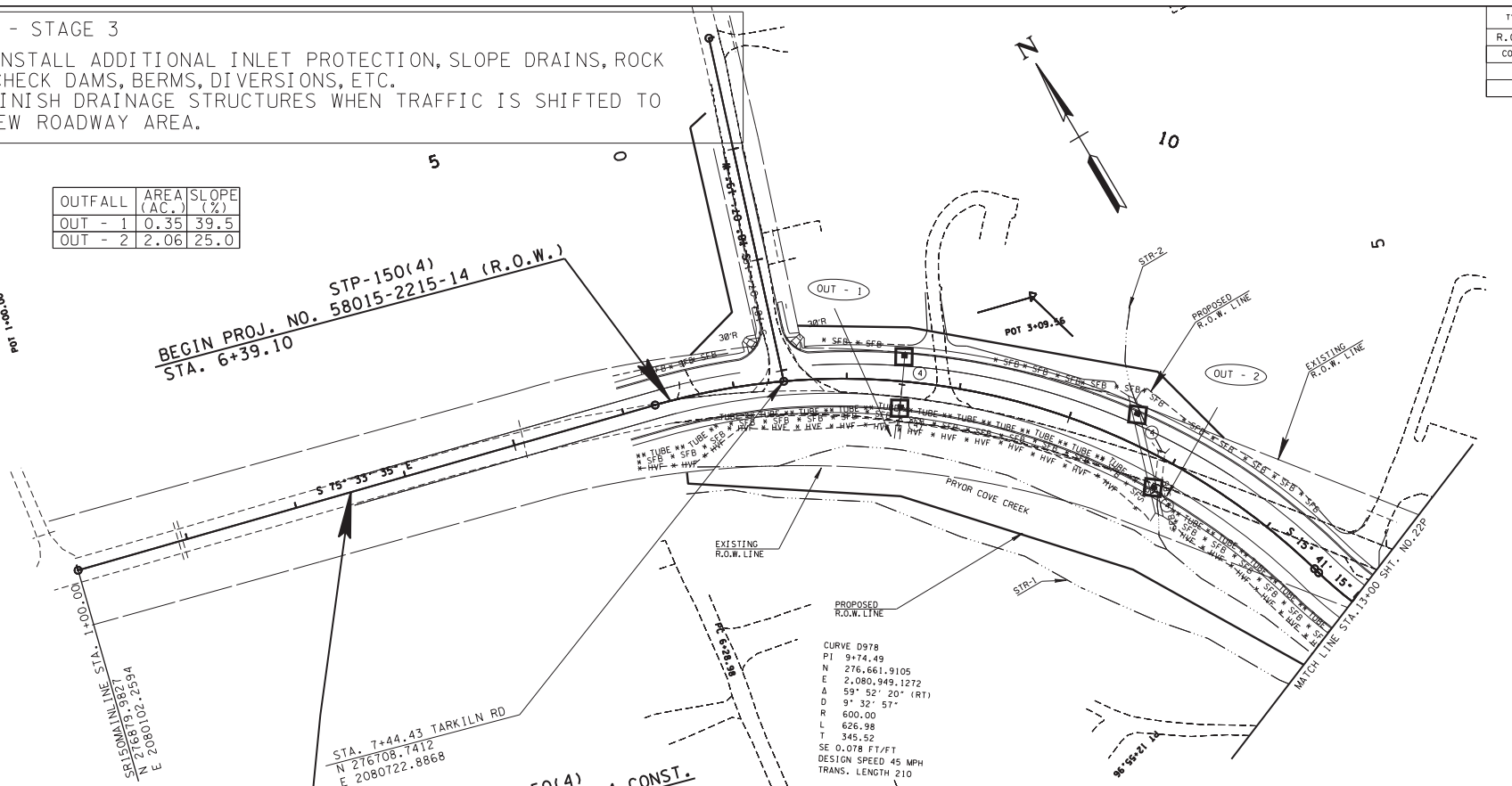
EPSC - STAGE 3

1.) INSTALL ADDITIONAL INLET PROTECTION, SLOPE DRAINS, ROCK CHECK DAMS, BERMS, DIVERSIONS, ETC.
2.) FINISH DRAINAGE STRUCTURES WHEN TRAFFIC IS SHIFTED TO NEW ROADWAY AREA.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15G
CONST.	2015	STP-150(4)	22N

Rev. 10/11/2012
Add high visibility fencing, triple sediment tubes installation detail.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 1	0.35	39.5
OUT - 2	2.06	25.0



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
TTTTTTTTT	TEMPORARY BERM	EC-STR-27
*SFB*SFB*SFB*	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	TEMPORARY SLOPE DRAIN	EC-STR-27
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

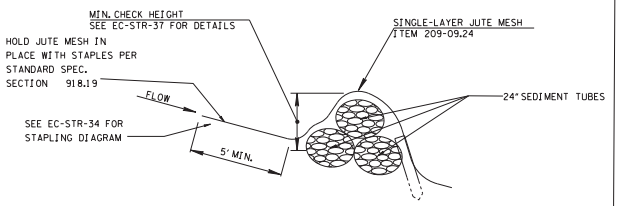
PHASING NARRATION

STAGE 1: CLEARING AND GRUBBING.

STAGE 2: TRAFFIC TO USE EXISTING ROAD. CONSTRUCT PROPOSED ROAD. BUILD DRAINAGE STRUCTURES UNDER NEW ROAD. MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND SIDE ROADS.

STAGE 3: SHIFT TRAFFIC TO NEW ROADWAY AREA. BUILD REMAINING ROAD AND ACCESS. FINISH DRAINAGE STRUCTURES.

TEMPORARY TRIPLE STACKED SEDIMENT TUBES WITH JUTE MESH FOR ALL APPLICATIONS



DETAIL
SCALE: N.T.S.

STAGE 3

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMISSION NO. 0019999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 1+00 TO STA. 13+00
SCALE: 1"= 50'

16-JUL-2015 07:29
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is I:\022N_EPSCP.SHT

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

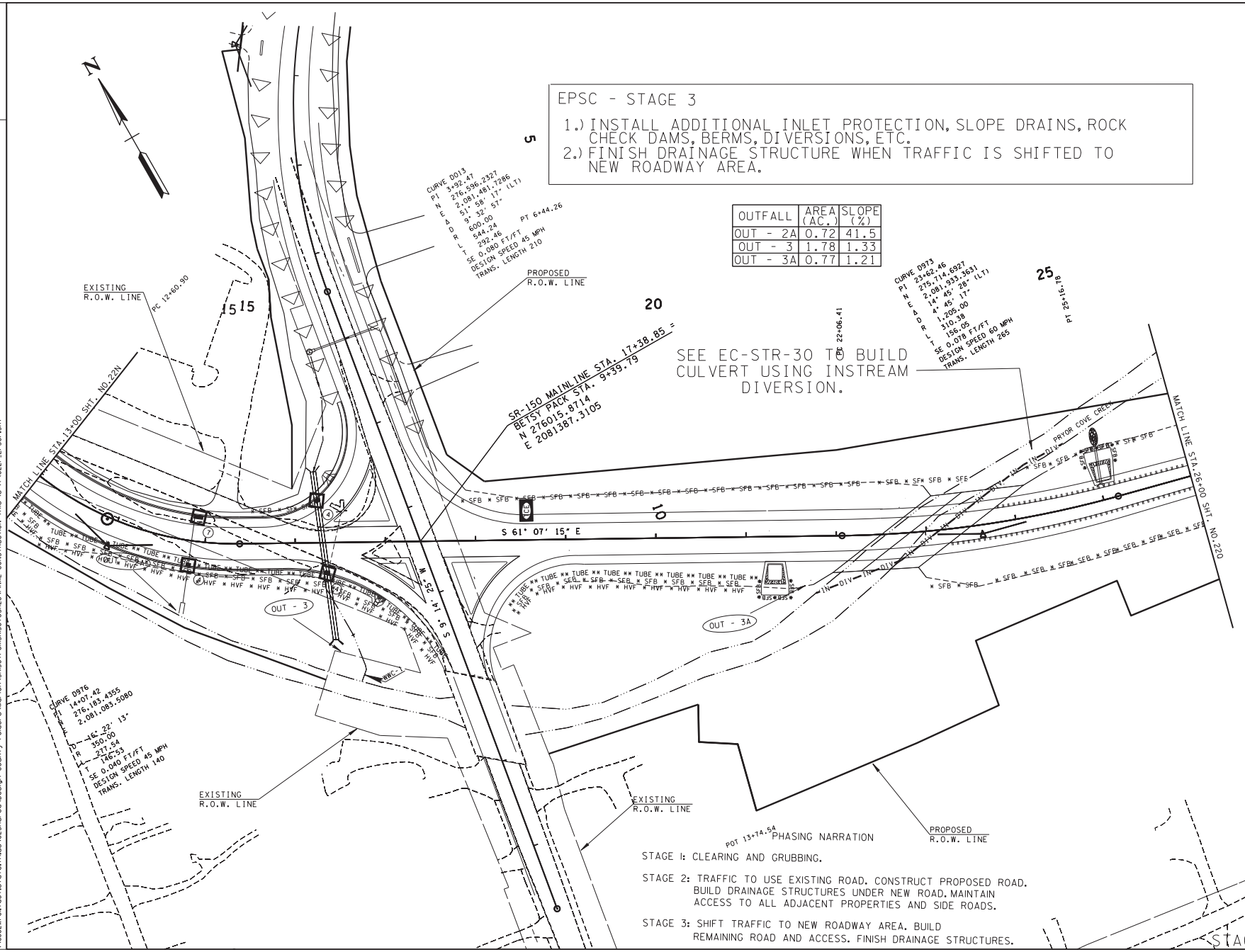
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15H
CONST.	2015	STP-150(4)	22P

Rev. 10/11/2012
Add high visibility fencing and triple sediment tubes.

EPSC - STAGE 3

1.) INSTALL ADDITIONAL INLET PROTECTION, SLOPE DRAINS, ROCK CHECK DAMS, BERMS, DIVERSIONS, ETC.
2.) FINISH DRAINAGE STRUCTURE WHEN TRAFFIC IS SHIFTED TO NEW ROADWAY AREA.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 2A	0.72	41.5
OUT - 3	1.78	1.33
OUT - 3A	0.77	1.21



PHASING NARRATION

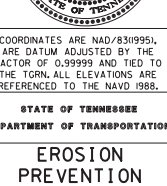
STAGE 1: CLEARING AND GRUBBING.

STAGE 2: TRAFFIC TO USE EXISTING ROAD. CONSTRUCT PROPOSED ROAD. BUILD DRAINAGE STRUCTURES UNDER NEW ROAD. MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND SIDE ROADS.

STAGE 3: SHIFT TRAFFIC TO NEW ROADWAY AREA. BUILD REMAINING ROAD AND ACCESS. FINISH DRAINAGE STRUCTURES.

STAGE 3

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 13+00 TO STA. 26+00
SCALE: 1"= 50'

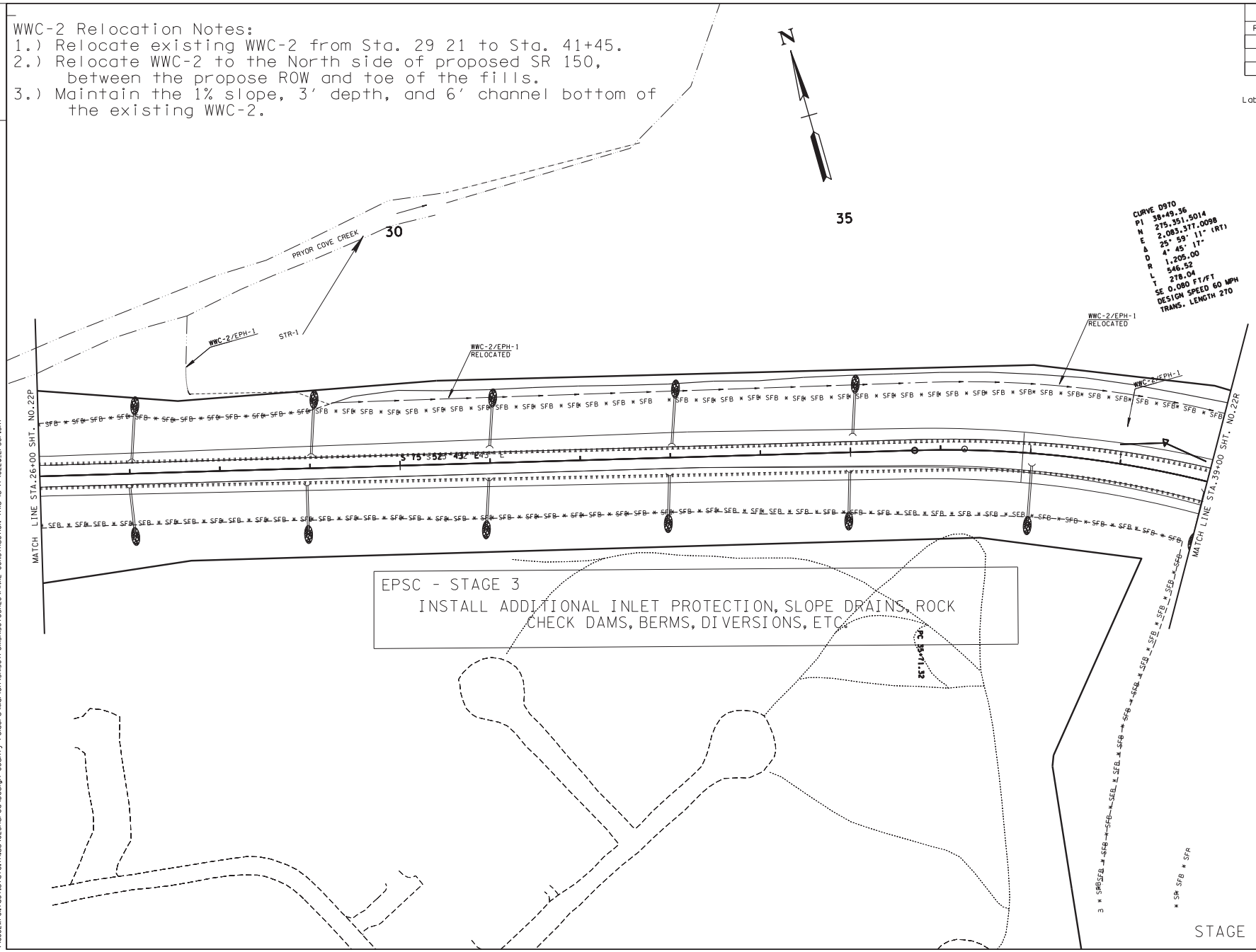
6-JUL-2015 07:29
\\J02WF01\tdot\state.tn.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\022P_EPSCP.SHT

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

WWC-2 Relocation Notes:
1.) Relocate existing WWC-2 from Sta. 29 21 to Sta. 41+45.
2.) Relocate WWC-2 to the North side of proposed SR 150, between the propose ROW and toe of the fills.
3.) Maintain the 1% slope, 3' depth, and 6' channel bottom of the existing WWC-2.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15J
CONST.	2015	STP-150(4)	220

Rev. 10/11/2012
Label environmental boundaries.



SEALED BY
ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMISSION NO. 0009999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 26+00 TO STA. 39+00
SCALE: 1"= 50'

16-JUL-2015 07:29
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR150fromSR61toSR28\FINAL CONSTRUCTION This is I:\0220.EPSCP.SHT

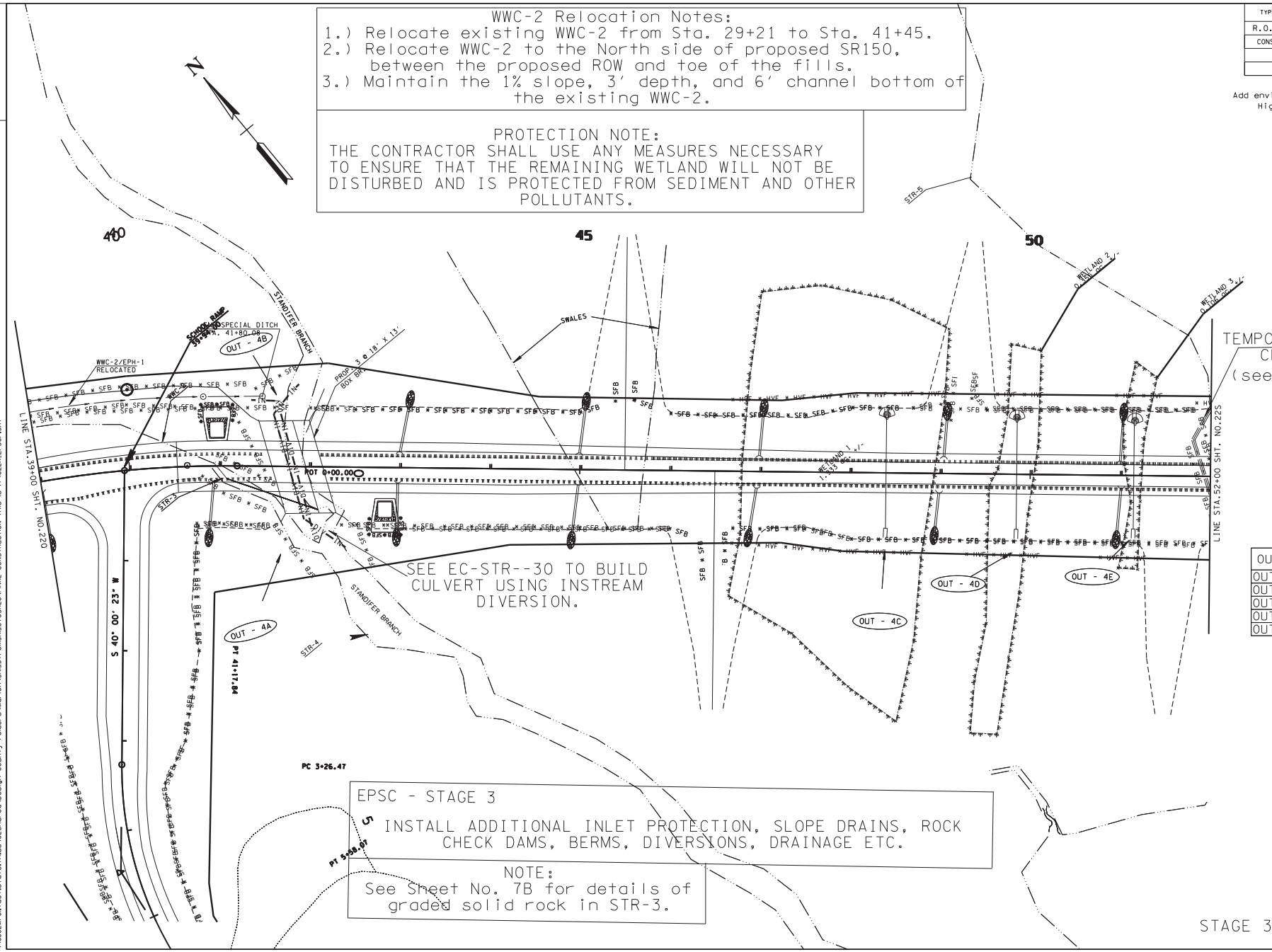
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15K
CONST.	2015	STP-150(4)	22R

Rev. 10/11/2012
Add environmental boundaries and High Visibility Fencing.

WWC-2 Relocation Notes:
1.) Relocate existing WWC-2 from Sta. 29+21 to Sta. 41+45.
2.) Relocate WWC-2 to the North side of proposed SR150, between the proposed ROW and toe of the fills.
3.) Maintain the 1% slope, 3' depth, and 6' channel bottom of the existing WWC-2.

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



TEMPORARY DIVERSION CHANNEL STR-5 (see SHT# 15K for details)

SEE EC-STR--30 TO BUILD CULVERT USING INSTREAM DIVERSION.

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 4A	2.61	3.11
OUT - 4B	4.56	2.88
OUT - 4C	1.37	8.21
OUT - 4D	0.64	8.72
OUT - 4E	0.24	4.33

EPSC - STAGE 3

INSTALL ADDITIONAL INLET PROTECTION, SLOPE DRAINS, ROCK CHECK DAMS, BERMS, DIVERSIONS, DRAINAGE ETC.

NOTE:
See Sheet No. 7B for details of graded solid rock in STR-3.

STAGE 3

SEALED BY
ROBERT W. RODGERS REGISTERED ENGINEER AGRICULTURE COMMERCE NO. 00022599 STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN
STA. 39+00 TO STA. 52+00
SCALE: 1"= 50'

16-JUL-2015 07:29
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\022R.EPSCP.SHT

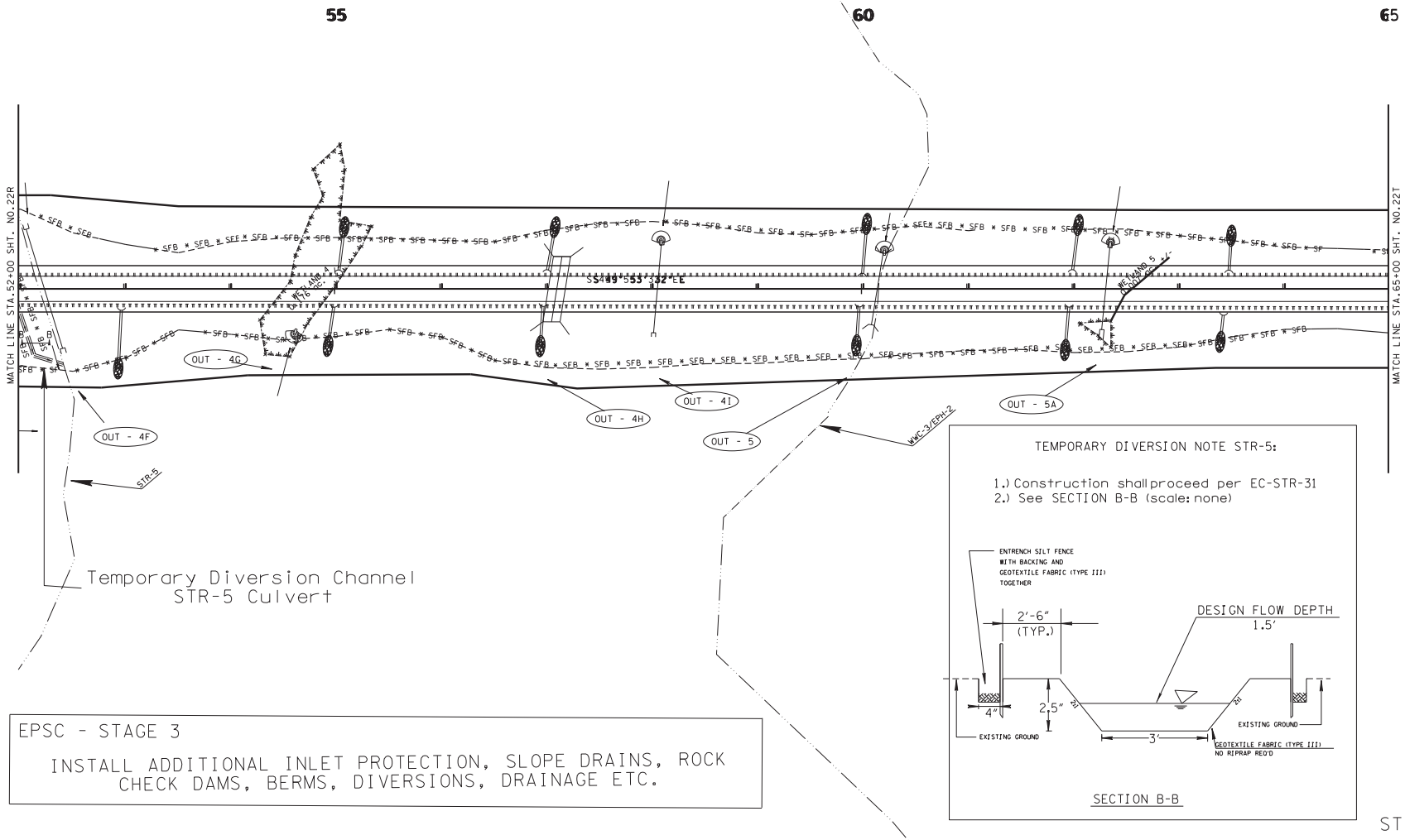
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15L
CONST.	2015	STP-150(4)	22S

Rev. 10/11/2012
Add environmental boundaries.

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

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 4F	0.99	1.03
OUT - 4G	2.26	0.77
OUT - 4H	0.44	24.8
OUT - 4I	0.75	16.4
OUT - 5	1.84	1.27
OUT - 5A	4.45	6.07



TEMPORARY DIVERSION NOTE STR-5:

1.) Construction shall proceed per EC-STR-31
2.) See SECTION B-B (scale: none)

SECTION B-B

EPSC - STAGE 3

INSTALL ADDITIONAL INLET PROTECTION, SLOPE DRAINS, ROCK CHECK DAMS, BERMS, DIVERSIONS, DRAINAGE ETC.

STAGE 3

SEALED BY

ROBERT W. RODGERS REGISTERED ENGINEER AGRICULTURE COMMERCE AND CONSERVE STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 52+00 TO STA. 65+00
SCALE: 1"= 50'

16-JUL-2015 07:29
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\025_EPSCP.SHT

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

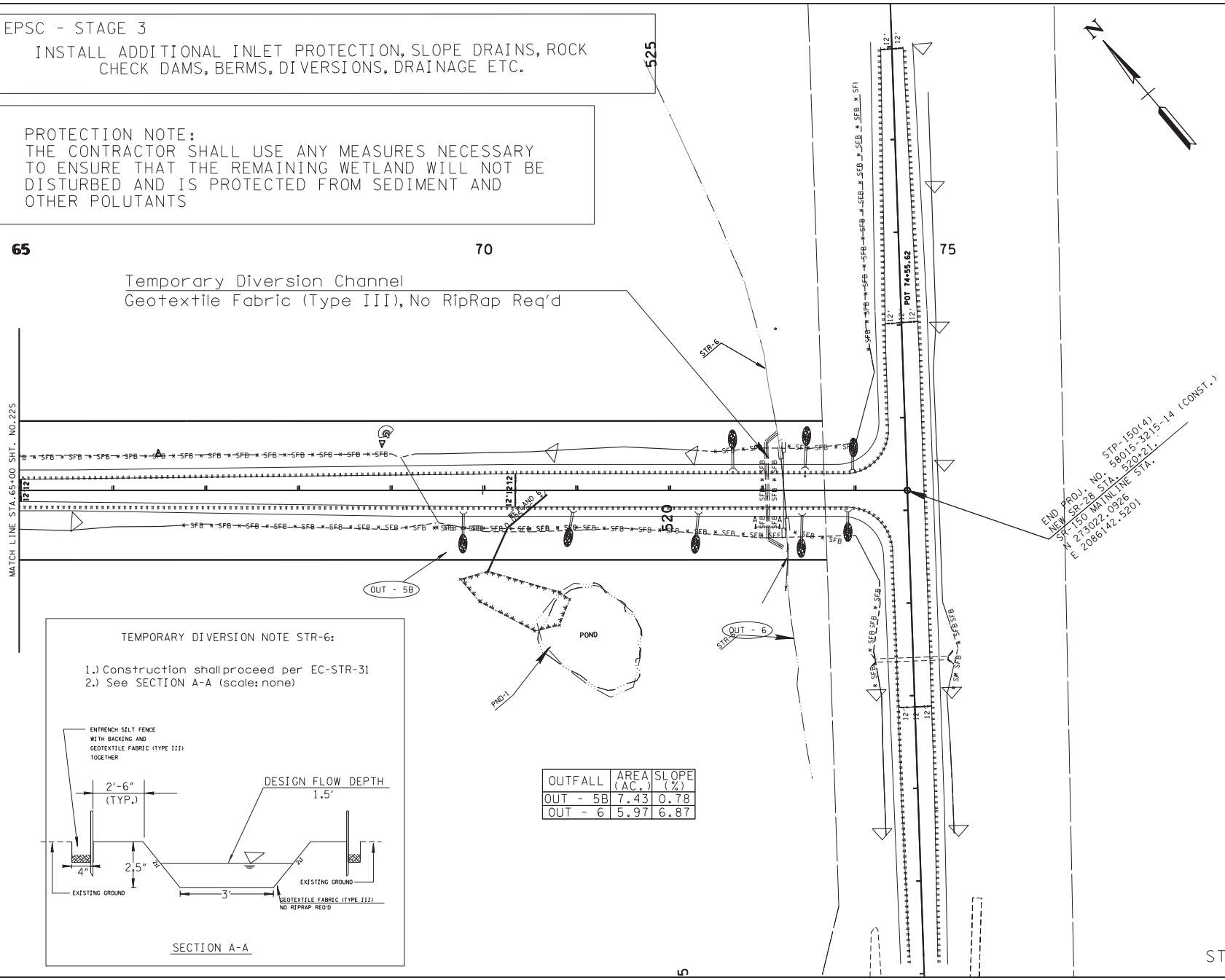
EPSC - STAGE 3

INSTALL ADDITIONAL INLET PROTECTION, SLOPE DRAINS, ROCK CHECK DAMS, BERMS, DIVERSIONS, DRAINAGE ETC.

PROTECTION NOTE:
THE CONTRACTOR SHALL USE ANY MEASURES NECESSARY TO ENSURE THAT THE REMAINING WETLAND WILL NOT BE DISTURBED AND IS PROTECTED FROM SEDIMENT AND OTHER POLUTANTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	15M
CONST.	2015	STP-150(4)	22T

Rev. 10/11/2012
Add environmental boundaries.



TEMPORARY DIVERSION NOTE STR-6:

1.) Construction shall proceed per EC-STR-31
2.) See SECTION A-A (scale: none)

SECTION A-A

OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 5B	7.43	0.78
OUT - 6	5.97	6.87

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 65+00 TO STA. 75+00
SCALE: 1"= 50'

STAGE 3

16-JUL-2015 07:29
\\J02WF01.tdot.state.tn.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\022T_EPSCP.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	22U

PHASING NARRATION

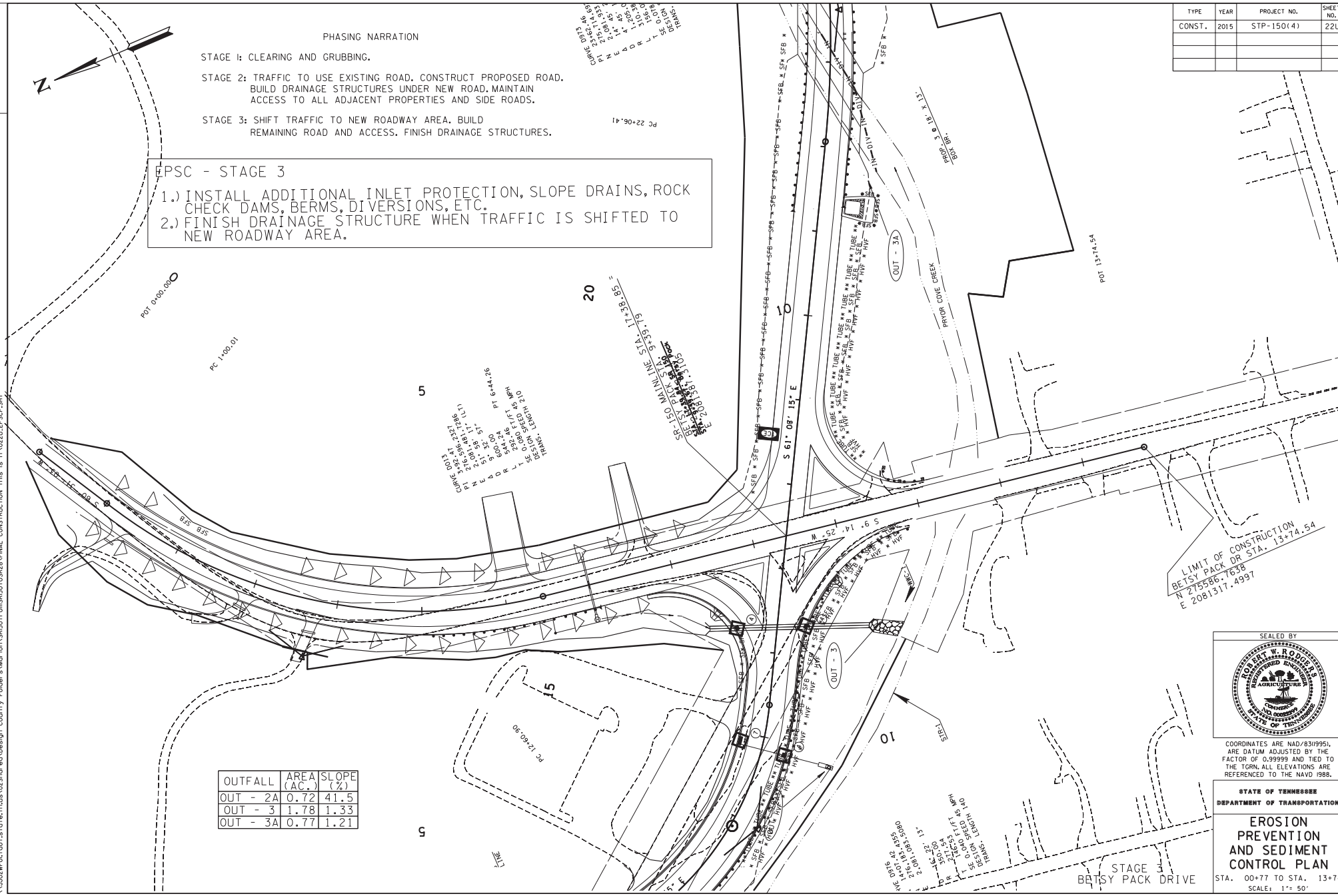
STAGE 1: CLEARING AND GRUBBING.

STAGE 2: TRAFFIC TO USE EXISTING ROAD. CONSTRUCT PROPOSED ROAD. BUILD DRAINAGE STRUCTURES UNDER NEW ROAD. MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND SIDE ROADS.

STAGE 3: SHIFT TRAFFIC TO NEW ROADWAY AREA. BUILD REMAINING ROAD AND ACCESS. FINISH DRAINAGE STRUCTURES.

EPSC - STAGE 3

1.) INSTALL ADDITIONAL INLET PROTECTION, SLOPE DRAINS, ROCK CHECK DAMS, BERMS, DIVERSIONS, ETC.
2.) FINISH DRAINAGE STRUCTURE WHEN TRAFFIC IS SHIFTED TO NEW ROADWAY AREA.



OUTFALL	AREA (AC.)	SLOPE (%)
OUT - 2A	0.72	41.5
OUT - 3	1.78	1.33
OUT - 3A	0.77	1.21

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00052599
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

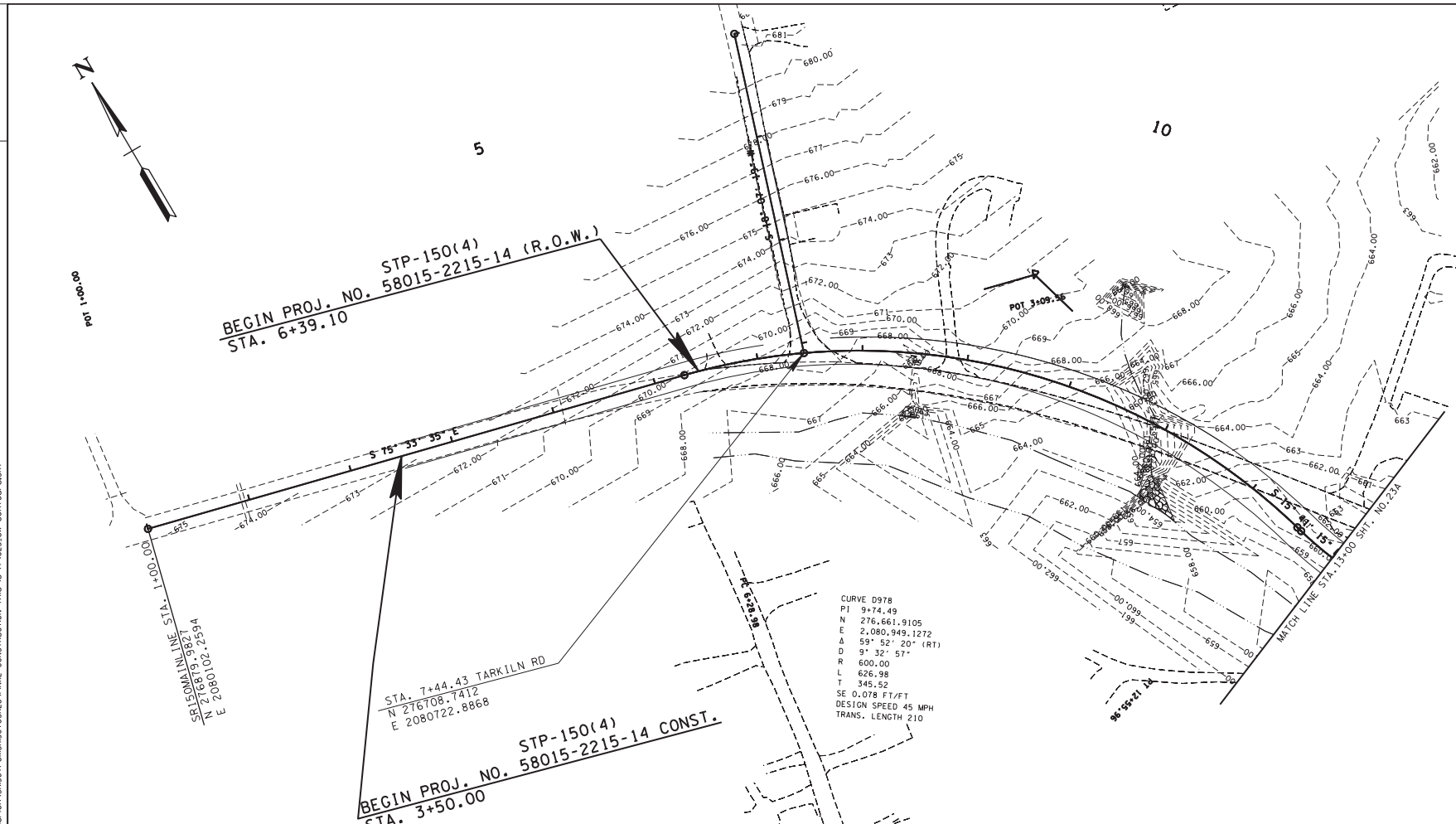
STA. 00+77 TO STA. 13+74
SCALE: 1"= 50'

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

16-JUL-2015 07:29
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\022U_EPSCP.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	16
CONST.	2015	STP-150(4)	23



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
AND GROOMED
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA. 1+00 TO STA. 13+00

SCALE: 1"= 50'

16-JUN-2015 07:36
\\J02\F01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is I:\023_ex contours.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	16A
CONST.	2015	STP-150(4)	23A

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00022599
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

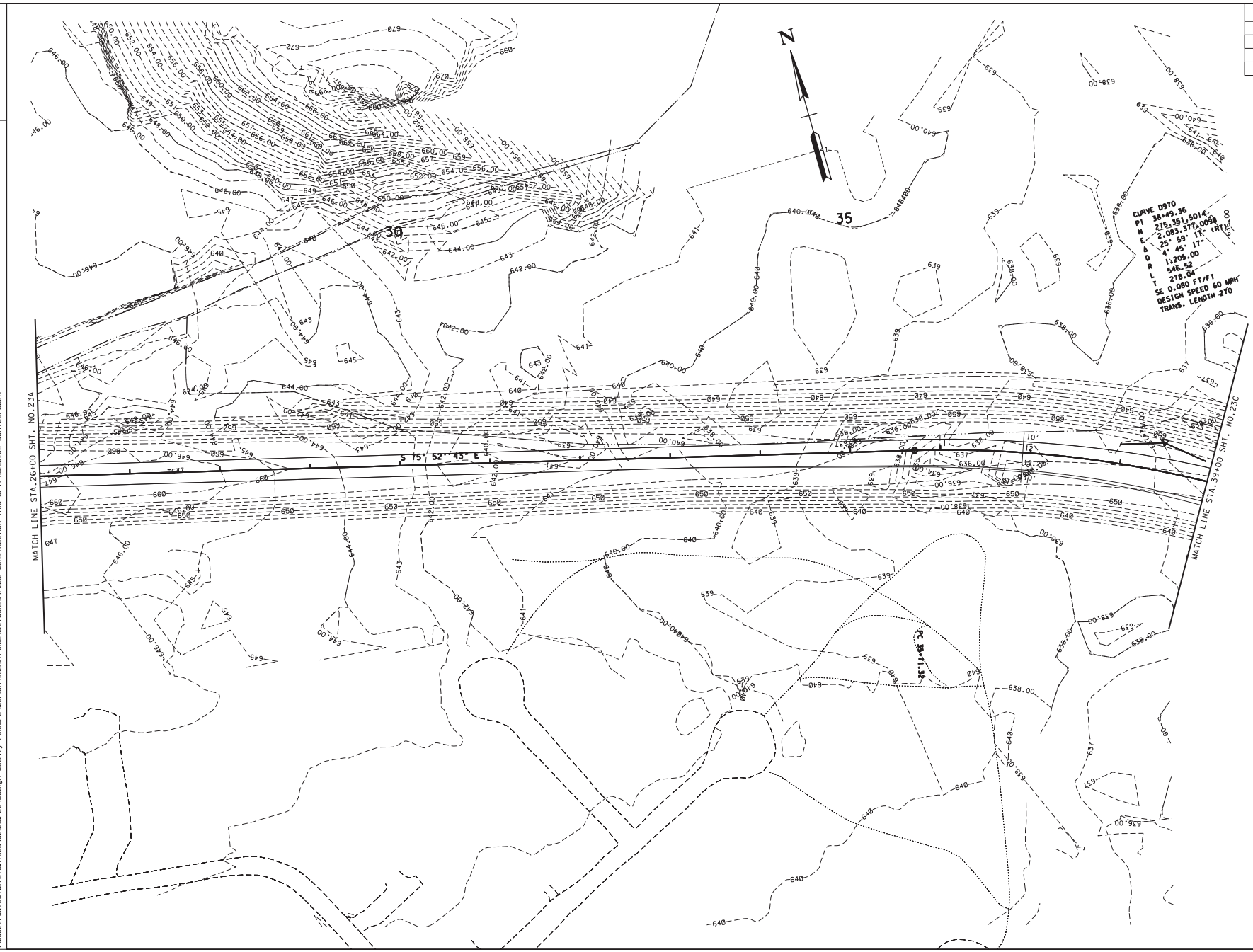
STA. 13+00 TO STA. 26+00

SCALE: 1"= 50'

6-JUN-2015 07:36
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\023A_ex contours.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	168
CONST.	2015	STP-150(4)	238



SEALED BY

ROBERT W. ROBUCK
REGISTERED ENGINEER
AGRICULTURE
NO. 0009999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA. 26+00 TO STA. 39+00

SCALE: 1"= 50'

6-JUN-2015 07:36
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\023B_ex contours.SHT

TENNESSEE D.O.T.

DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	16C
CONST.	2015	STP-150(4)	23C

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA. 39+00 TO STA. 52+00

SCALE: 1"= 50'

6-JUN-2015 07:36
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR150fromSR61toSR28\FINAL CONSTRUCTION This is i:\023C_ex contours.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	160
CONST.	2015	STP-150(4)	230

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMISSIONER
STATE OF TENNESSEE

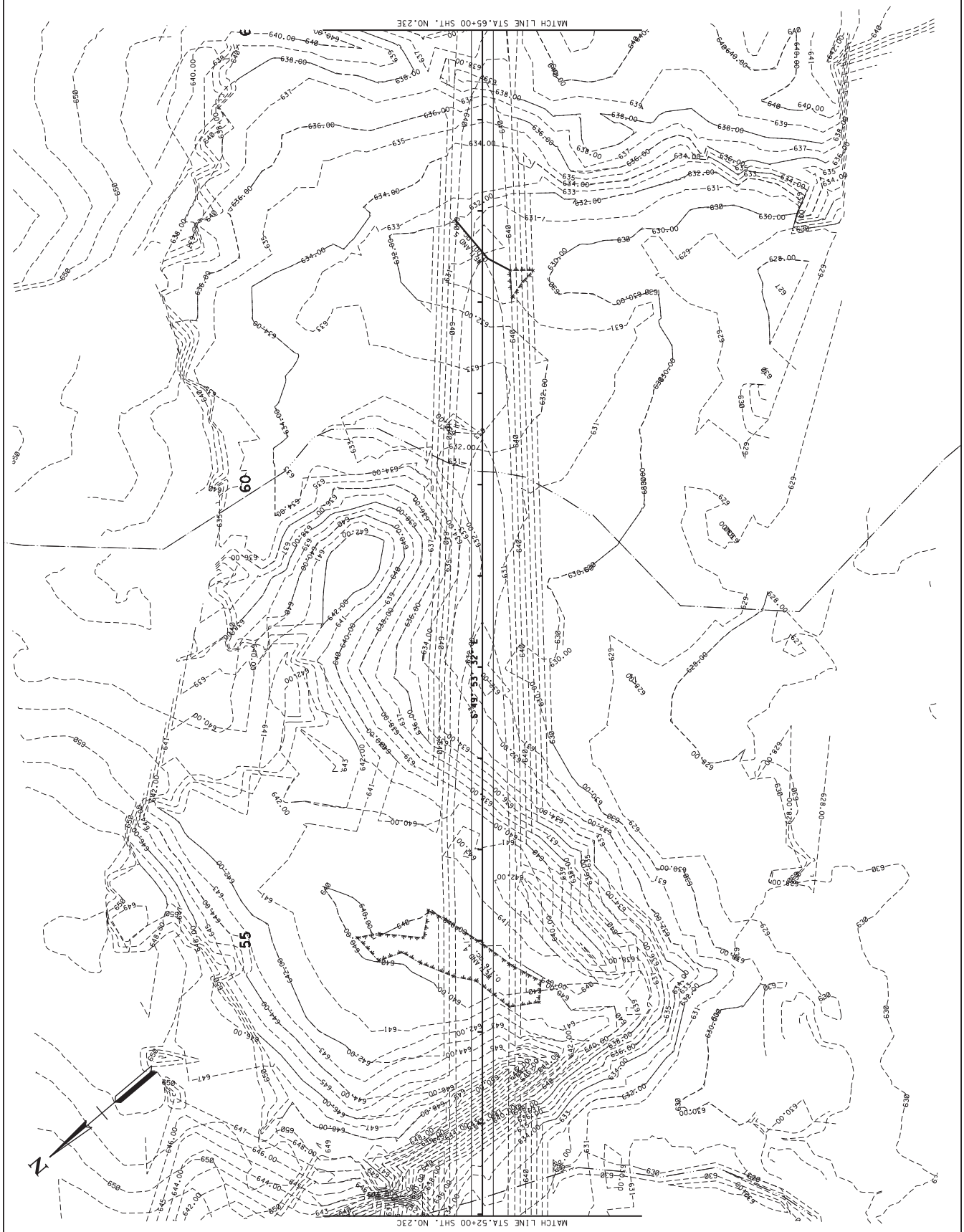
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA. 52+00 TO STA. 65+00

SCALE: 1" = 50'



TENNESSEE D.O.T.

DESIGN DIVISION

FILE NO.

6-JUN-2015 07:36
\\JUO2WFOLtdot.state.tn.us\O2Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\023D.ex contours.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	16E
CONST.	2015	STP-150(4)	23E

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMISSIONER
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EXISTING CONTOURS

STA. 65+00 TO STA. 75+00

SCALE: 1"= 50'

6-JUN-2015 07:36
\\J02WF01\dot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is i:\023E_ex contours.SHT

TENNESSEE D.O.T.

DESIGN DIVISION

FILE NO.

6-JUN-2015 07:36
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\023F_ex contours.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	16F
CONST.	2015	STP-150(4)	23F

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 000 5599
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

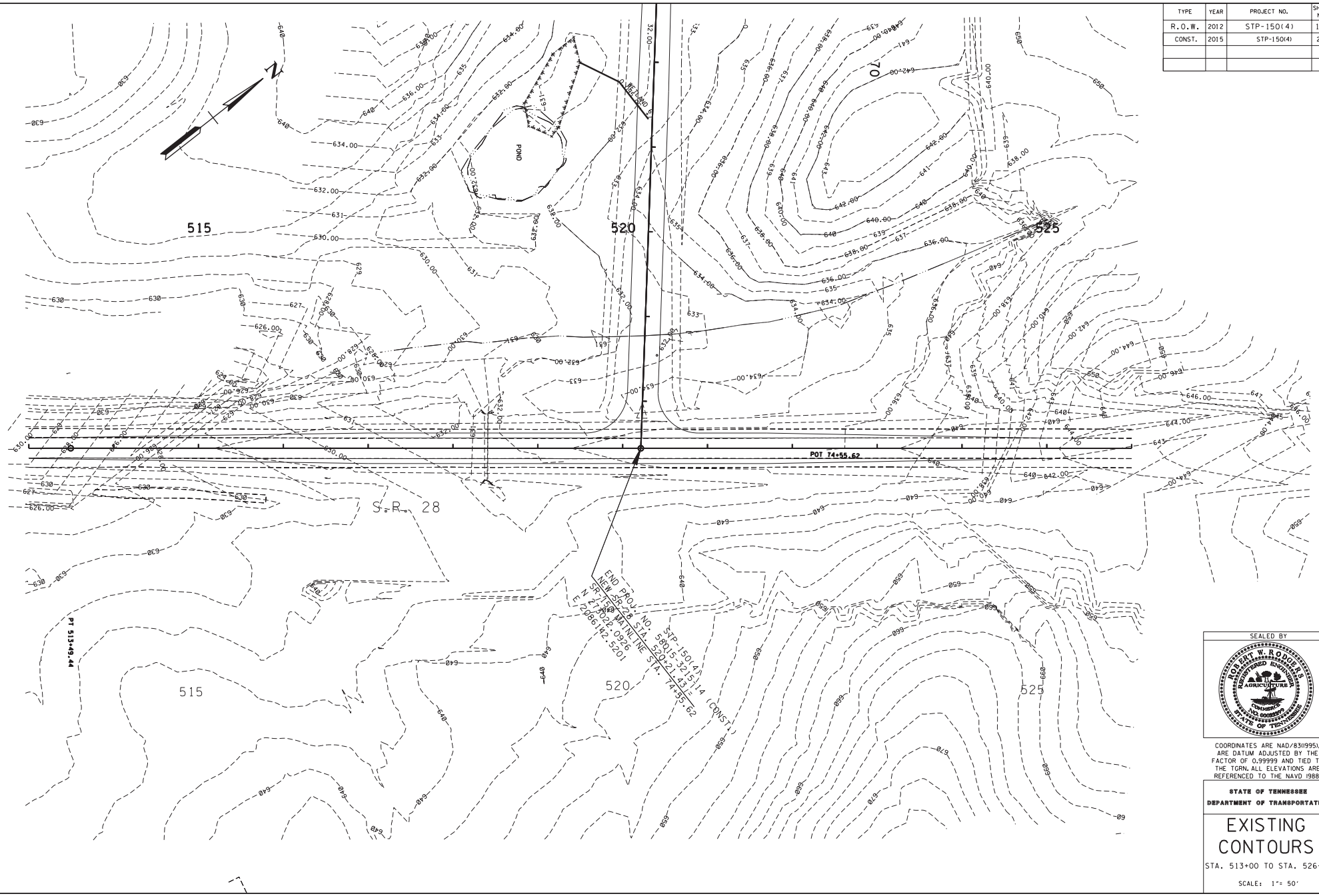
EXISTING CONTOURS

STA. 00+77 TO STA. 13+74

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	16G
CONST.	2015	STP-150(4)	23G



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00082999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

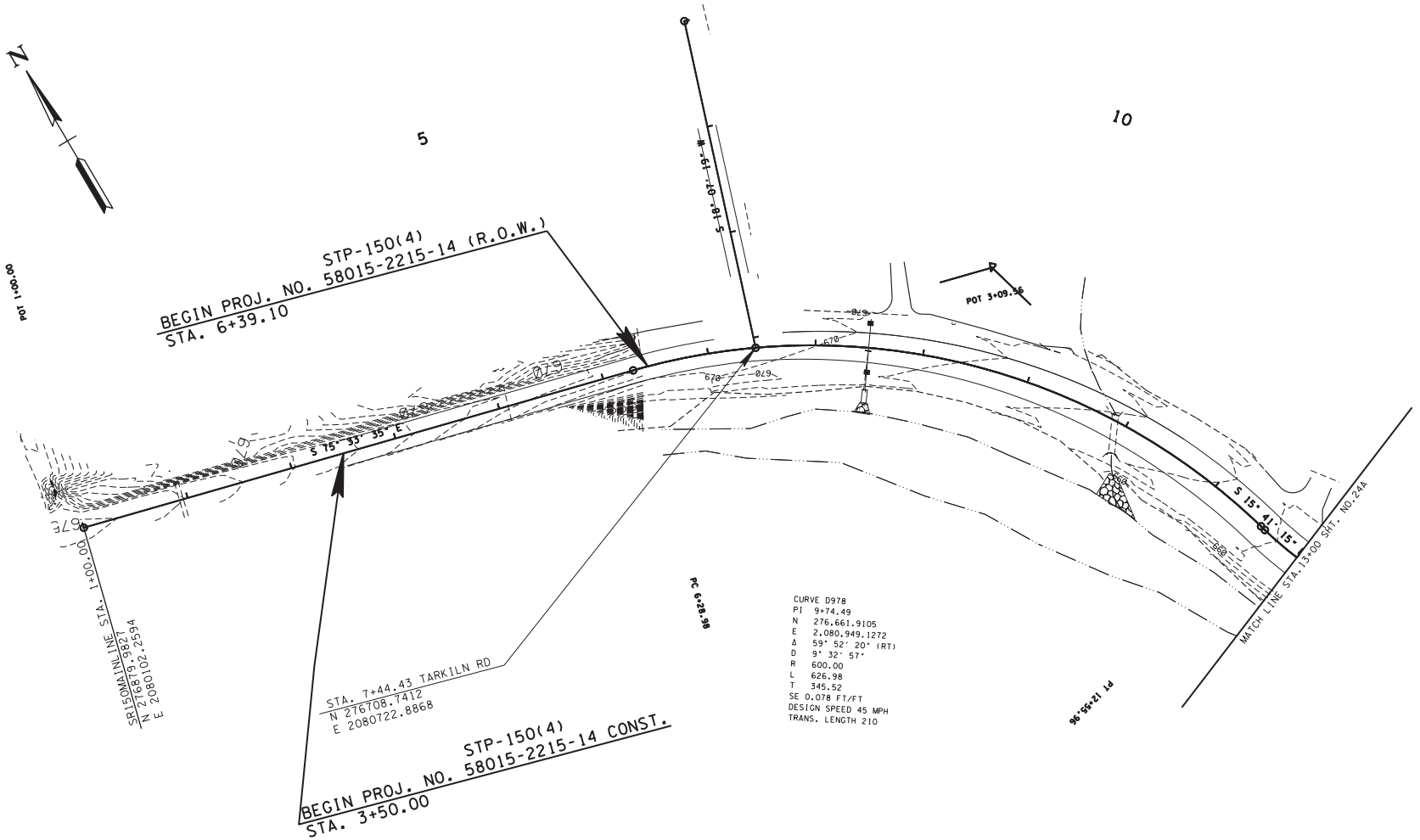
EXISTING CONTOURS

STA. 513+00 TO STA. 526+00

SCALE: 1"= 50'

6-JUN-2015 07:36
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\023G_ex contours.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	21
CONST.	2015	STP-150(4)	24



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00052599
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA. 1+00 TO STA. 13+00

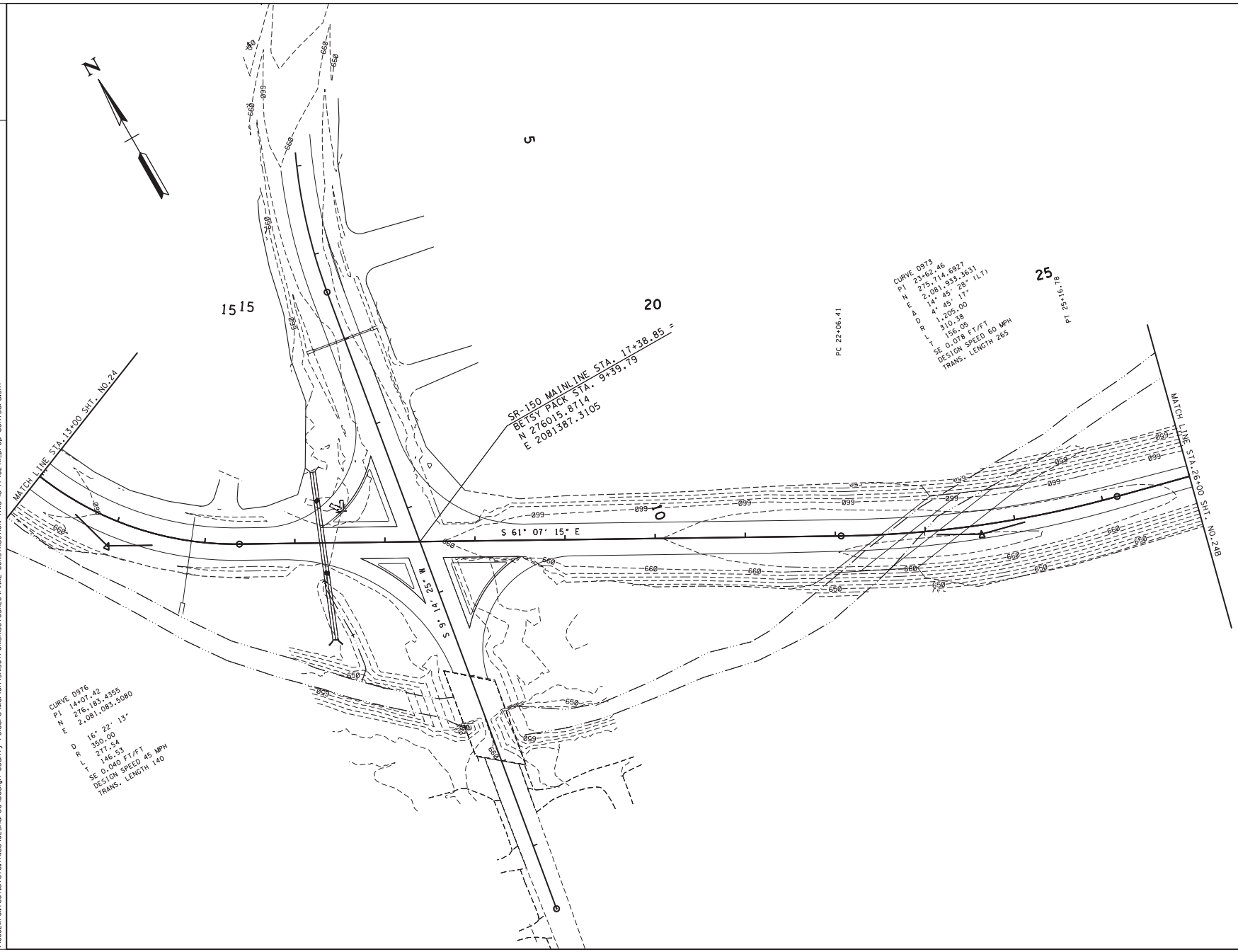
SCALE: 1"= 50'

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

16-JUN-2015 07:36
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\024.prop contours.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	21A
CONST.	2015	STP-150(4)	24A



SEALED BY

ROBERT W. RODDEN
REGISTERED ENGINEER
AGRICULTURE
COLUMBIA
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

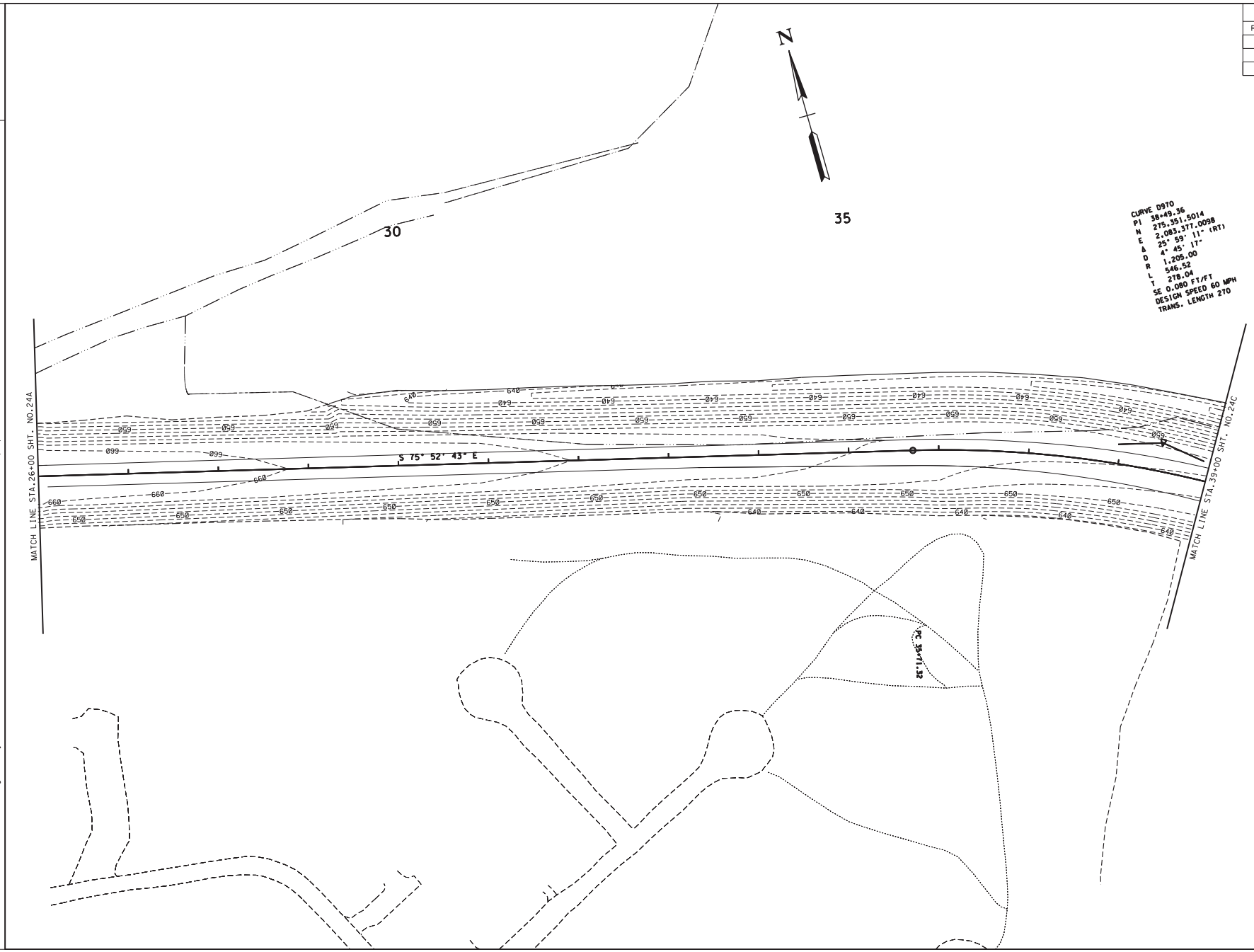
STA. 13+00 TO STA. 26+00

SCALE: 1"= 50'

16-JUN-2015 07:36
\\J02WF01.tdot.state.tn.us\J02Shared\Design County Folders\Marion\SR150fromSR50toSR28\FINAL CONSTRUCTION This is i:\Q24A_prop contours.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	21B
CONST.	2015	STP-150(4)	24B

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



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00093299
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

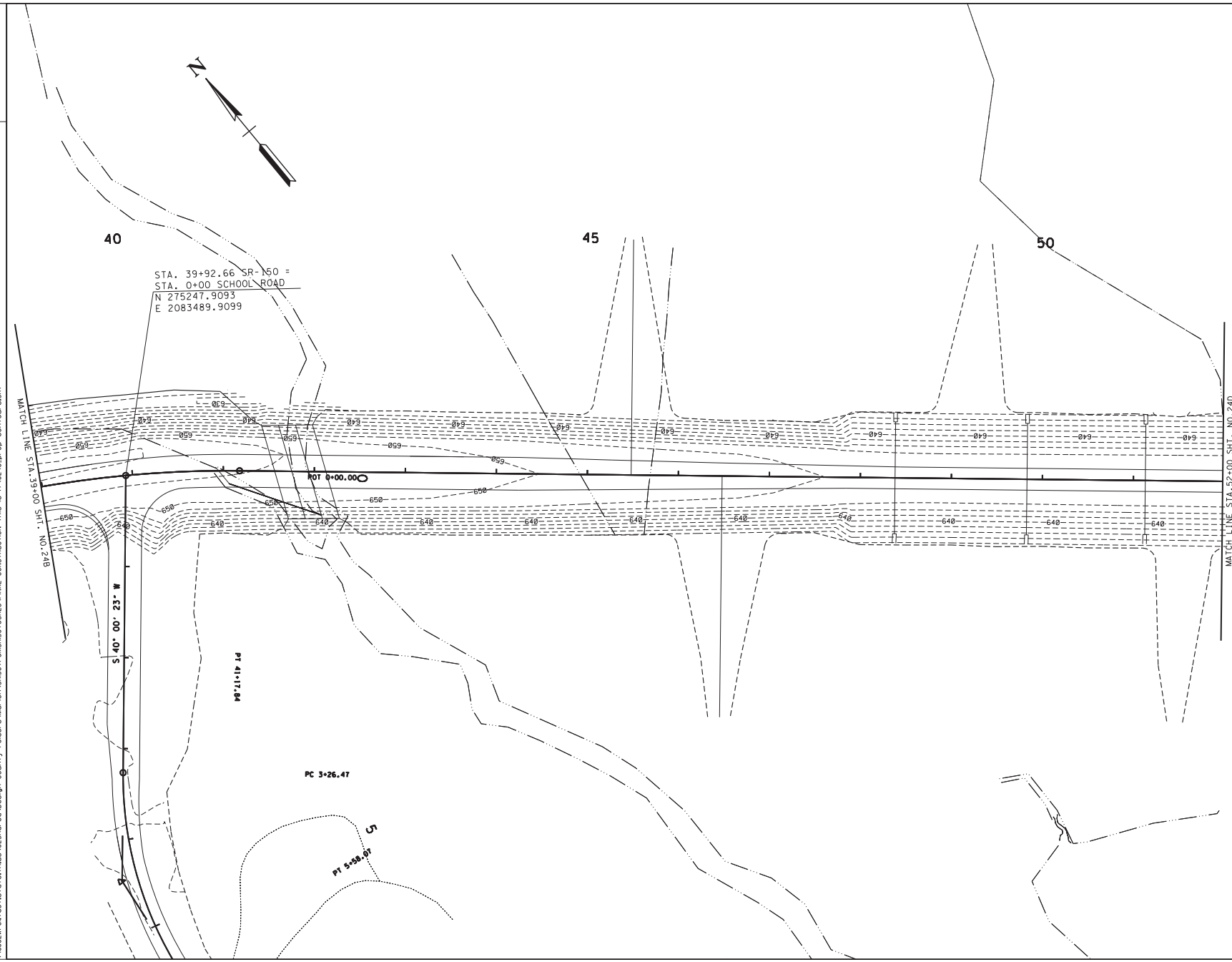
STA. 26+00 TO STA. 39+00

SCALE: 1"= 50'

6-JUN-2015 07:36
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\024B_prop contours.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	21C
CONST.	2015	STP-150(4)	24C



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0019899
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

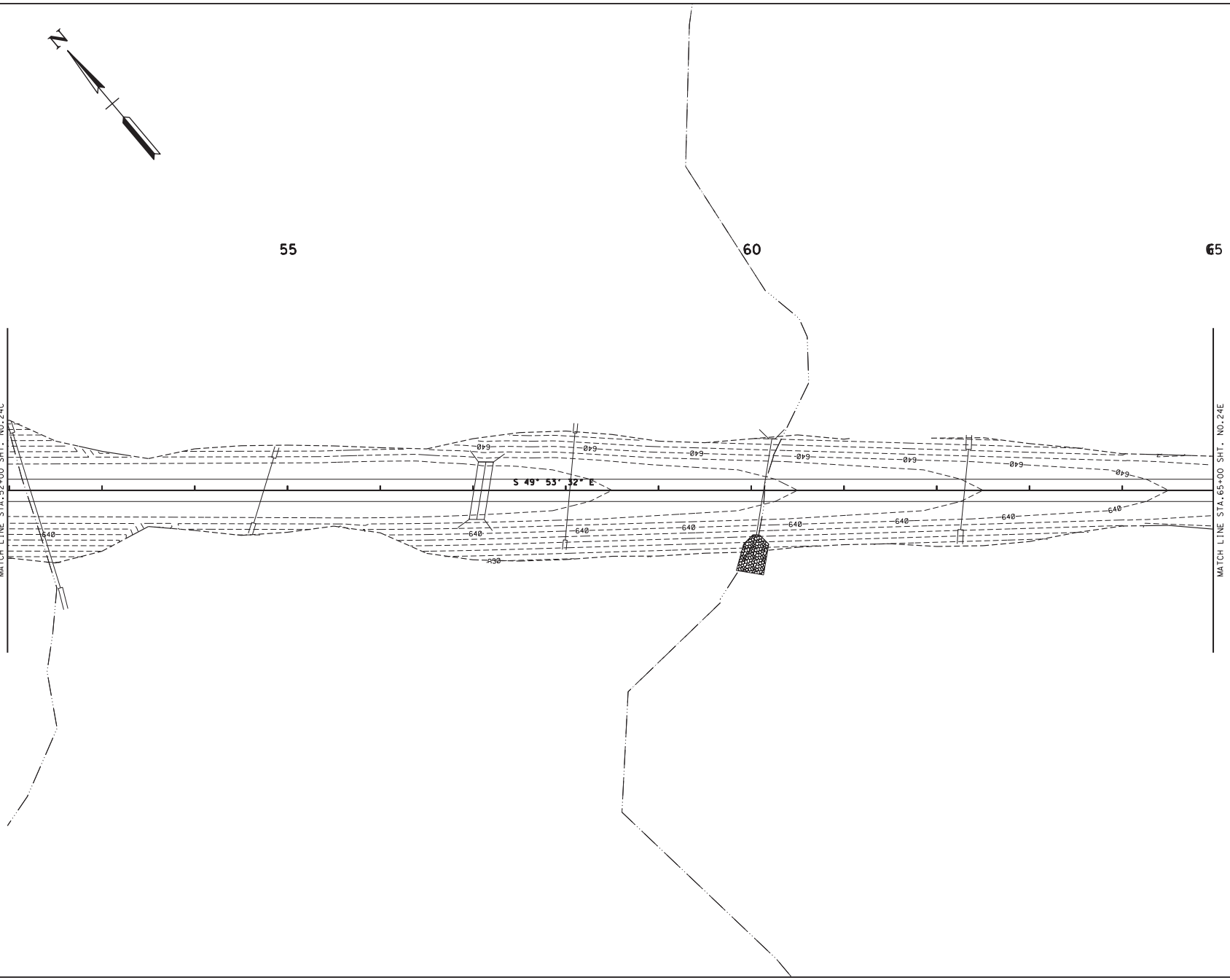
STA. 39+00 TO STA. 52+00

SCALE: 1"= '

6-JUN-2015 07:36
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\024C_prop contours.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	21D
CONST.	2015	STP-150(4)	24D



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA. 52+00 TO STA. 65+00

SCALE: 1"= 50'

6-JUN-2015 07:36
\\J02WF01.tdot.state.tn.us\025Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is i:\0240_prop contours.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	21E
CONST.	2015	STP-150(4)	24E

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA. 65+00 TO STA. 75+00

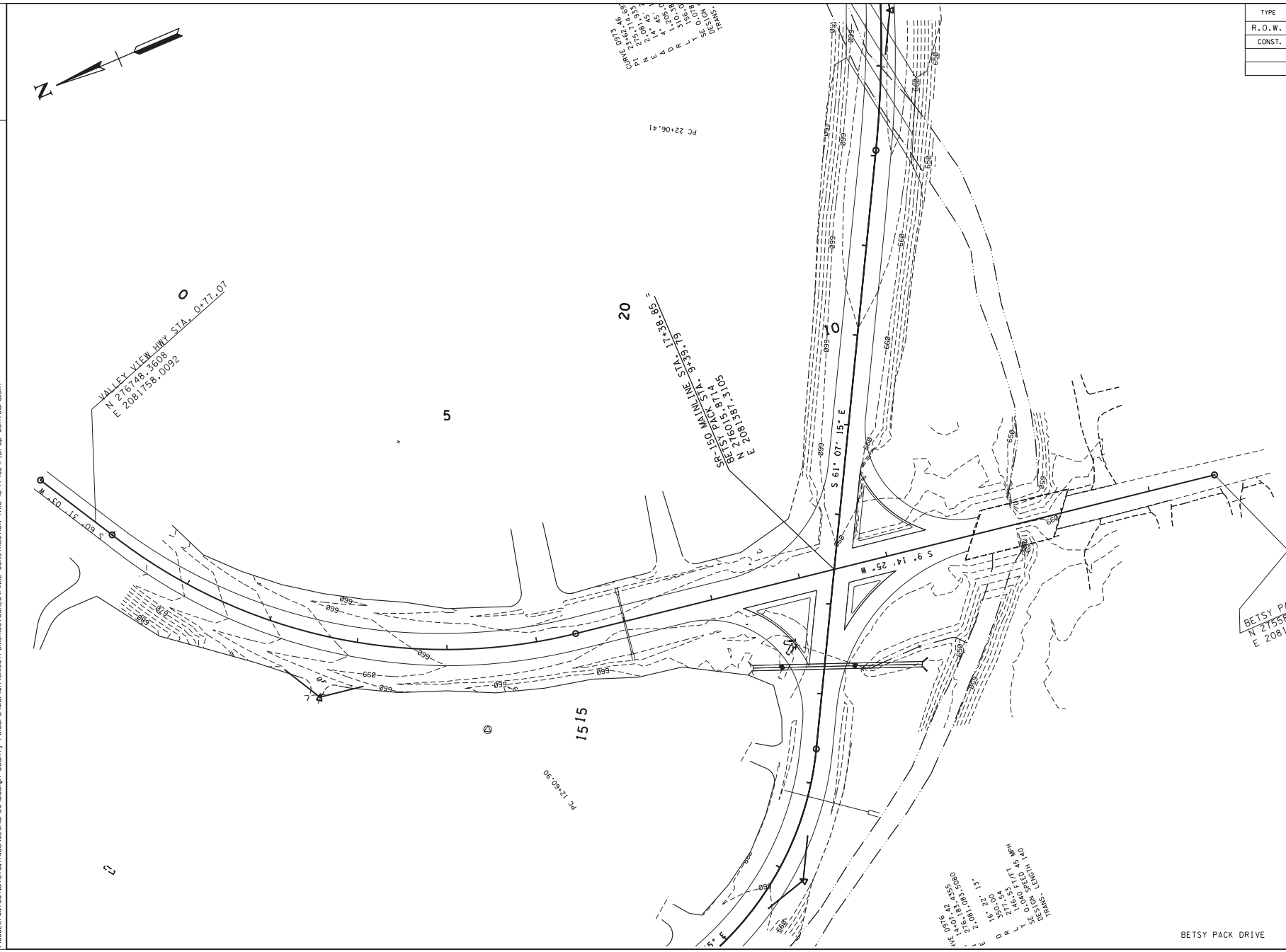
SCALE: 1"= 50'

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

6-JUN-2015 07:36
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\024E.prop contours.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	21F
CONST.	2015	STP-150(4)	24F



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00022999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

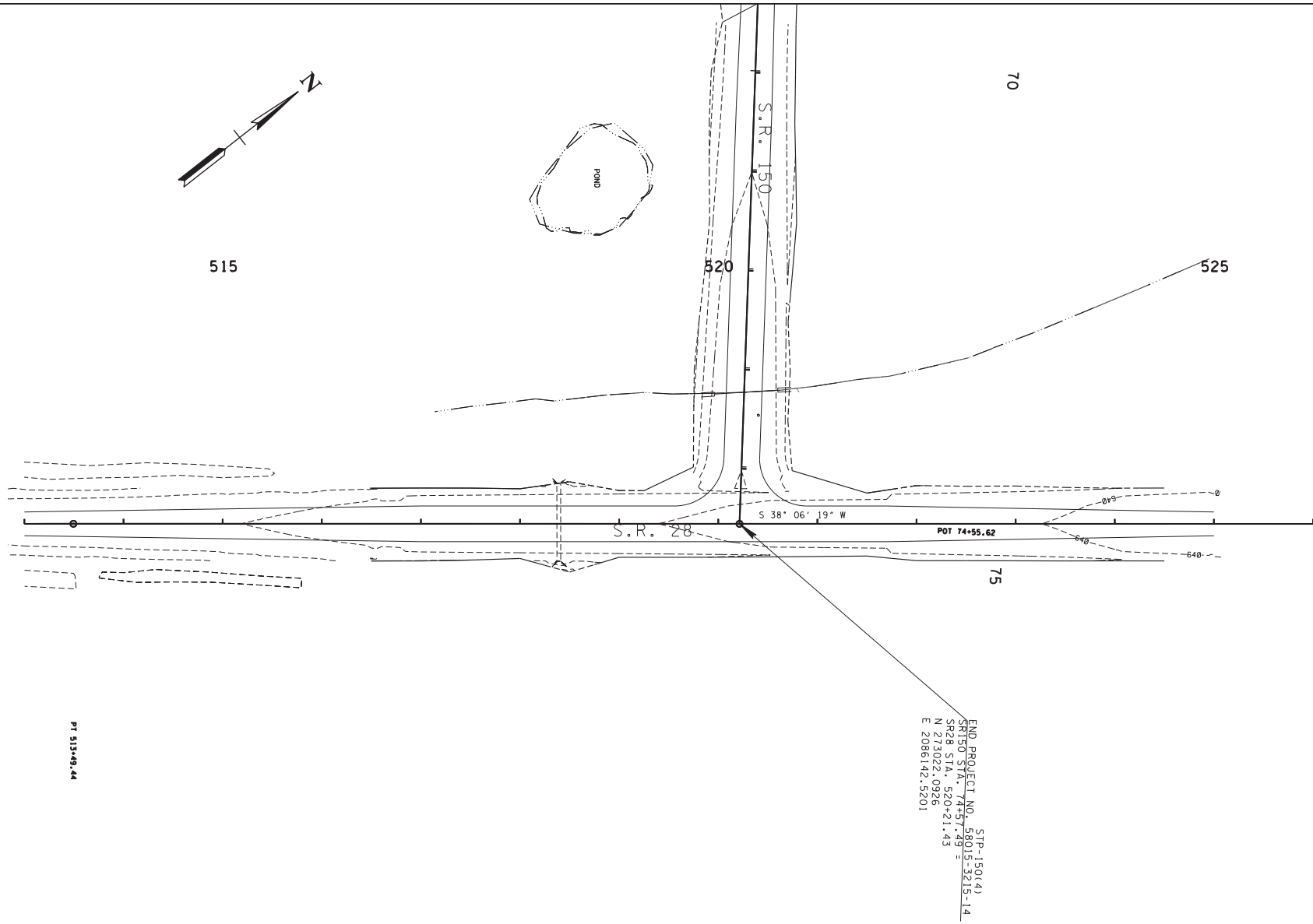
PROPOSED CONTOURS

STA. 00+77 TO STA. 13+74

SCALE: 1"= 50'

6-JUN-2015 07:36
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\024F_prop contours.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	21G
CONST.	2015	STP-150(4)	24G



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00022599
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED CONTOURS

STA. 513+00 TO STA. 526+00

SCALE: 1"= 50'

S.R. 28

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

6-JUN-2015 07:36
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\024G_prop contours.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP 150(4)	25

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.

D. 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.

SEALED BY

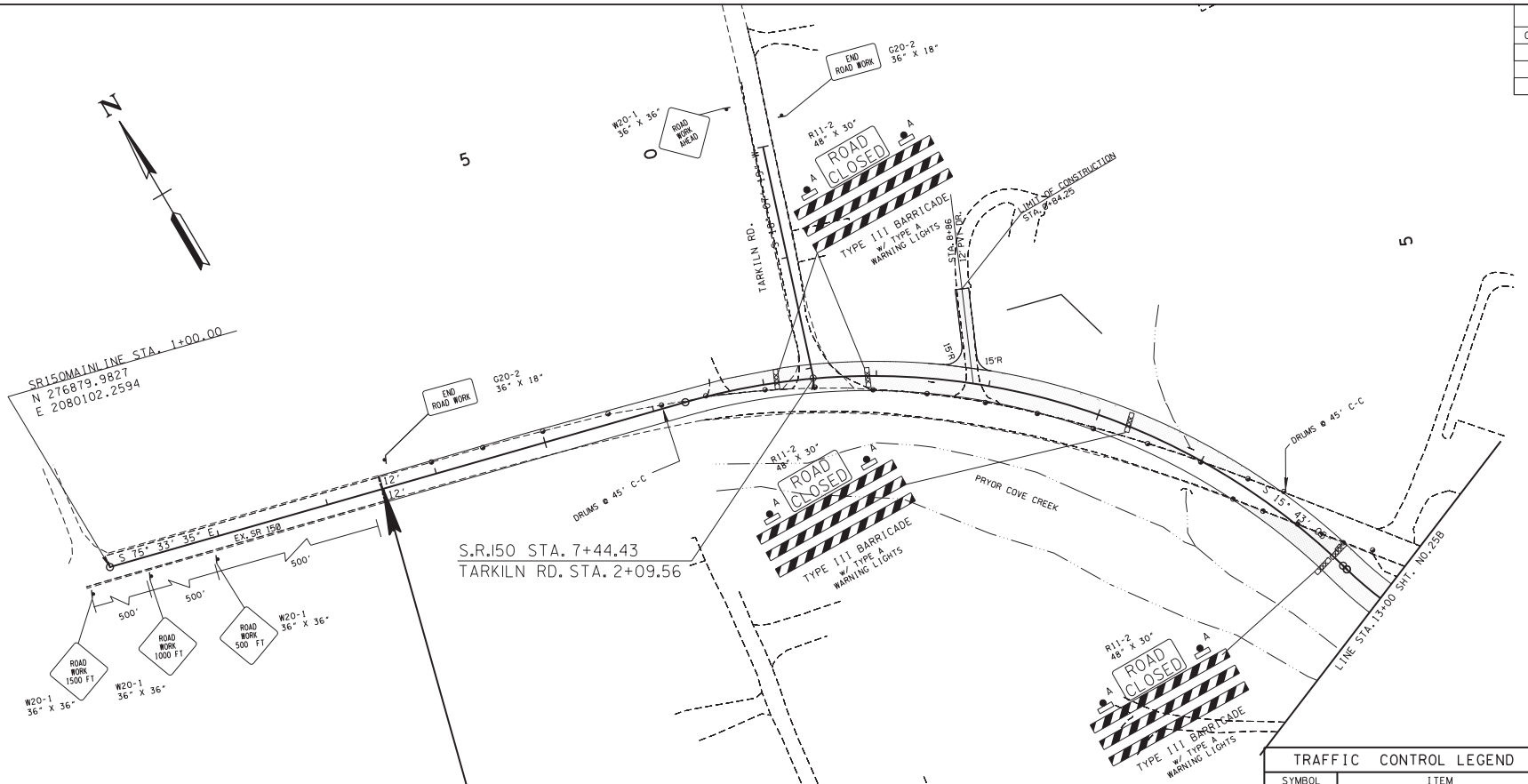
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP OFF TRAFFIC CONTROL NOTES

16-JUN-2015 07:55
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\025_traffic controlnotes.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	25A



STP-150(4)
BEGIN PROJ. NO. 58015-3215-14
STA. 3+50 (CONST.)

PHASING NARRATION

PHASE 1: TRAFFIC TO USE EXISTING ROAD. CONSTRUCT PROPOSED ROAD. BUILD DRAINAGE STRUCTURES UNDER NEW ROAD. MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND SIDE ROADS.

PHASE 2: SHIFT TRAFFIC TO NEW ROADWAY AREA. BUILD REMAINING ROAD AND ACCESS. FINISH DRAINAGE STRUCTURES.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	TEMPORARY BARRICADE (TYPE III)
A	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
	SIGN (CONSTRUCTION)
	FLEXIBLE DRUMS (CHANNELIZING)

TRAFFIC CONTROL QUANTITIES

M.U.T.C.D. NO.	DESCRIPTION	SIZE	PHASE 1 QUANTITY (EACH)	PHASE 2 QUANTITY (EACH)	ITEM NO. 712-06 (S.F.)	REMARKS
G20-2	END OF WORK	36"X18"	6	4	45	
R11-2	ROAD CLOSED	48"X30"	8	9	170	
W20-1	ROAD WORK AHEAD	48"X48"	1		16	
W20-1	ROAD WORK 1500 FT	48"X48"	5	3	128	
W20-1	ROAD WORK 1000 FT	48"X48"	5	3	128	
W20-1	ROAD WORK 500 FT	48"X48"	5	3	128	
TOTAL					615	

ITEM NO.	DESCRIPTION		PHASE 1	PHASE 2		TOTAL QUANTITY
712-04.01	FLEXIBLE DRUMS(CHANNELIZING)		76	28	EACH	104
712-05.01	TYPE "A" WARNING LIGHTS		27	15	EACH	42
712-07.03	TEMP. BARRICADES (TYPEIII)		1119	1005	L.F.	2124

NOTE: SIGNS TO BE REUSED DURING ALL PHASES OF CONSTRUCTION.

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMISSIONER
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE _1__

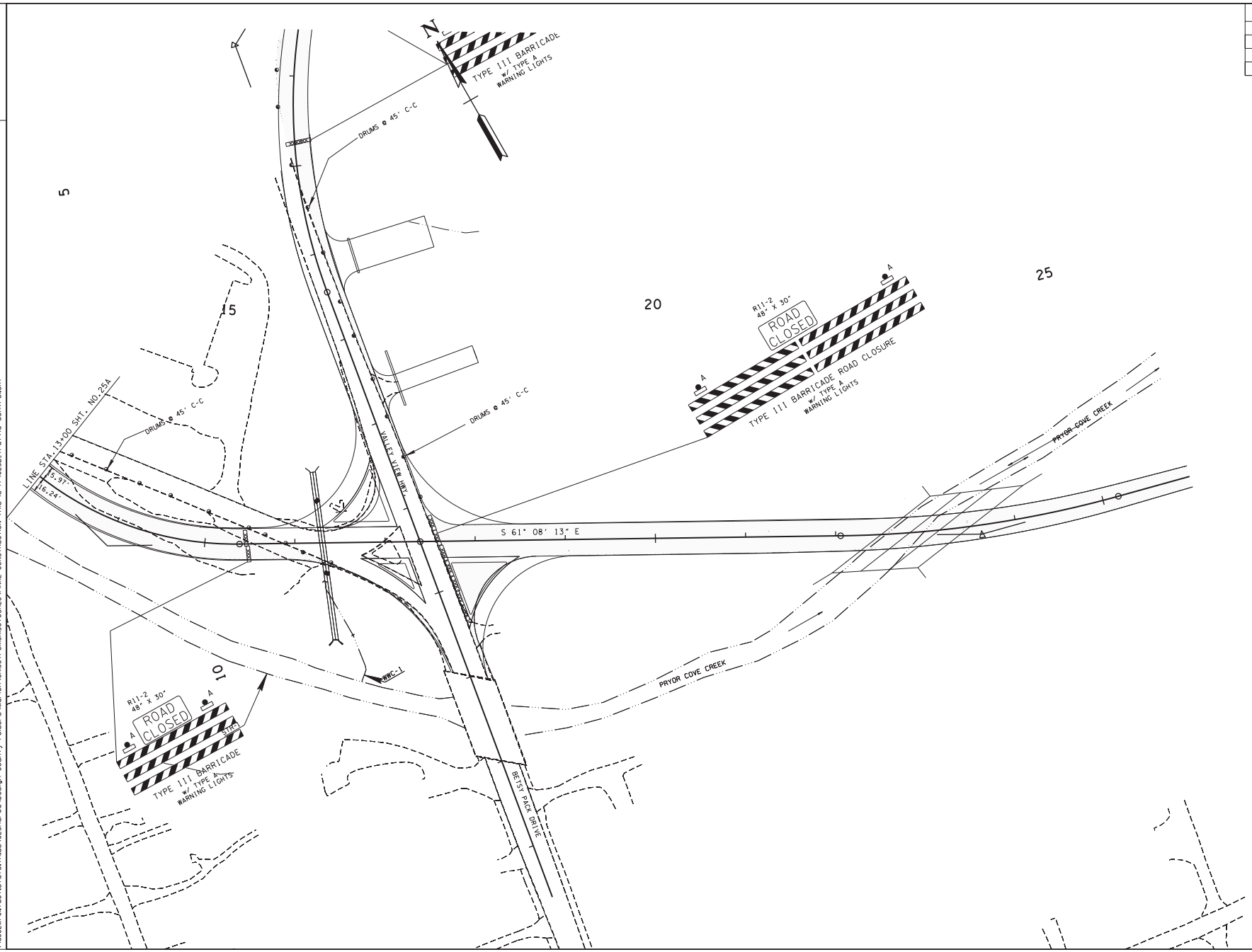
STA. 1+00 TO STA. 13+00

SCALE: 1"= 50'

6-JUN-2015 07:56
\\J02WF01\dot\state.tn.us\025shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is I:\025A_traffic control.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	25B



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
AND GOODWORK
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

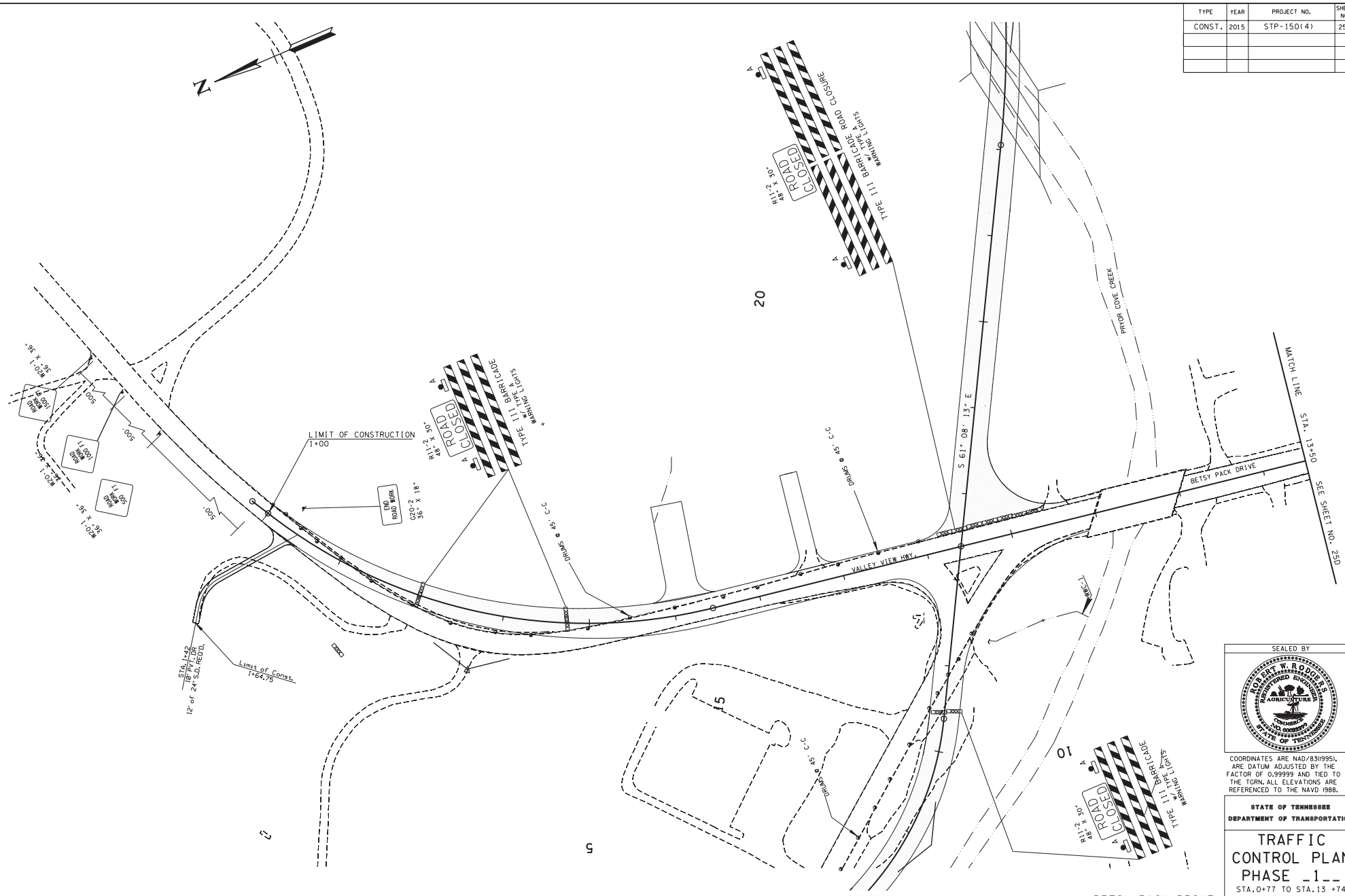
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PHASE __1_
STA. 13+00 TO STA. 26+00
SCALE: 1"= 50'

16-JUN-2015 07:56
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\025B_traffic control.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	25C



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
CUMBERLAND
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

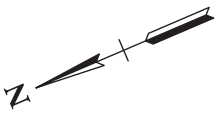
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

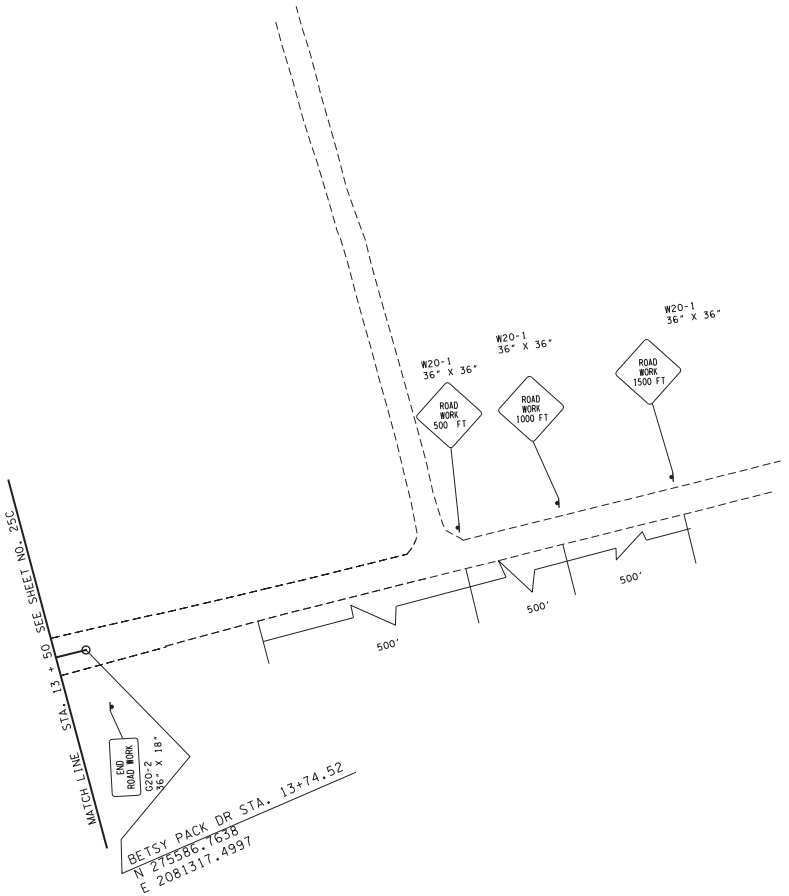
TRAFFIC CONTROL PLAN
PHASE _1__
STA.0+77 TO STA.13 +74
SCALE: 1"= 50'

6-JUN-2015 07:56
\\J02WF01.tdot.state.tn.us\025Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\025C_traffic control.SHT

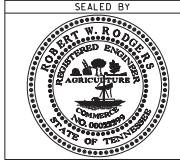
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	25D





SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PHASE __1_

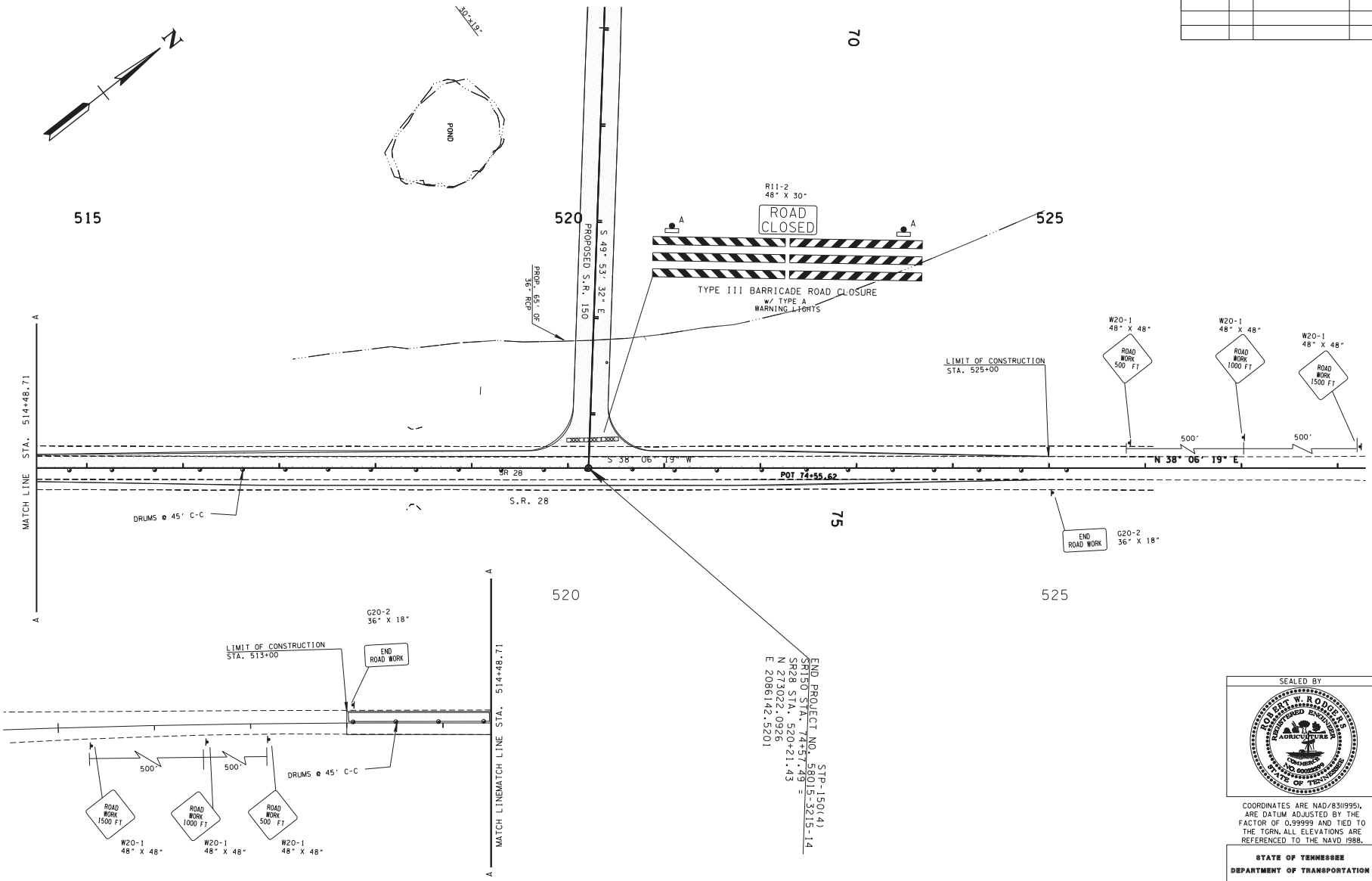
STA. 13+50 TO STA. 13+74

SCALE: 1"= 50'

6-JUN-2015 07:57
\\J02WF01.tdot.state.tn.us\025Shared\Design County Folders\Marion\SR150fromSR51toSR28\FINAL CONSTRUCTION This is I:\025D_traffic control.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	25E



SEALED BY

ROBERT W. RODDEY
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
AND GOVERNMENT
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

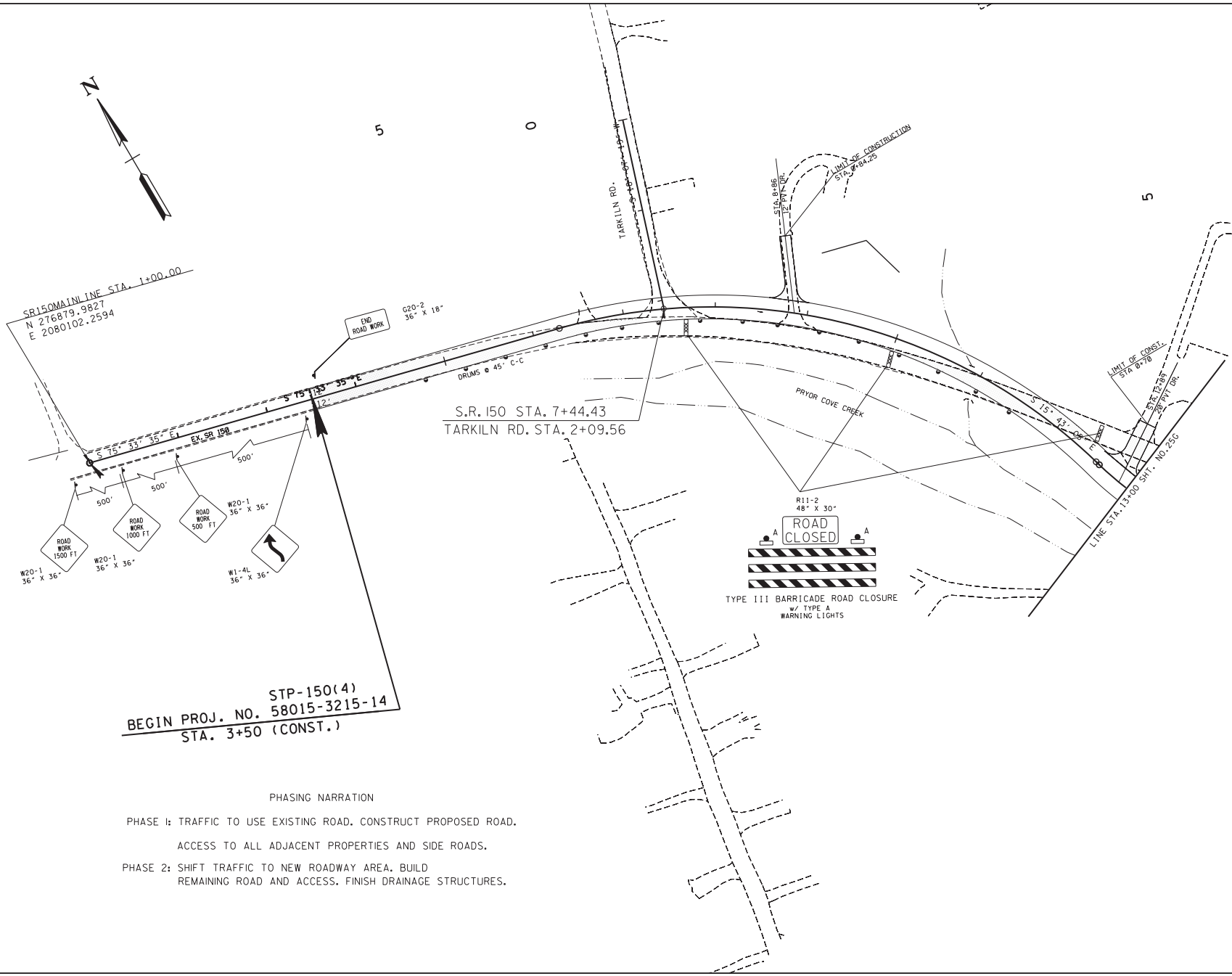
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
PHASE _1__
STA. 513+00 TO STA. 525+00
SCALE: 1"= 50'

16-JUN-2015 07:57
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR150fromSR50toSR28\FINAL CONSTRUCTION This is I:\025E_traffic control.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	25F

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



PHASING NARRATION

PHASE 1: TRAFFIC TO USE EXISTING ROAD. CONSTRUCT PROPOSED ROAD.

ACCESS TO ALL ADJACENT PROPERTIES AND SIDE ROADS.

PHASE 2: SHIFT TRAFFIC TO NEW ROADWAY AREA. BUILD REMAINING ROAD AND ACCESS. FINISH DRAINAGE STRUCTURES.

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00025599
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE _2__

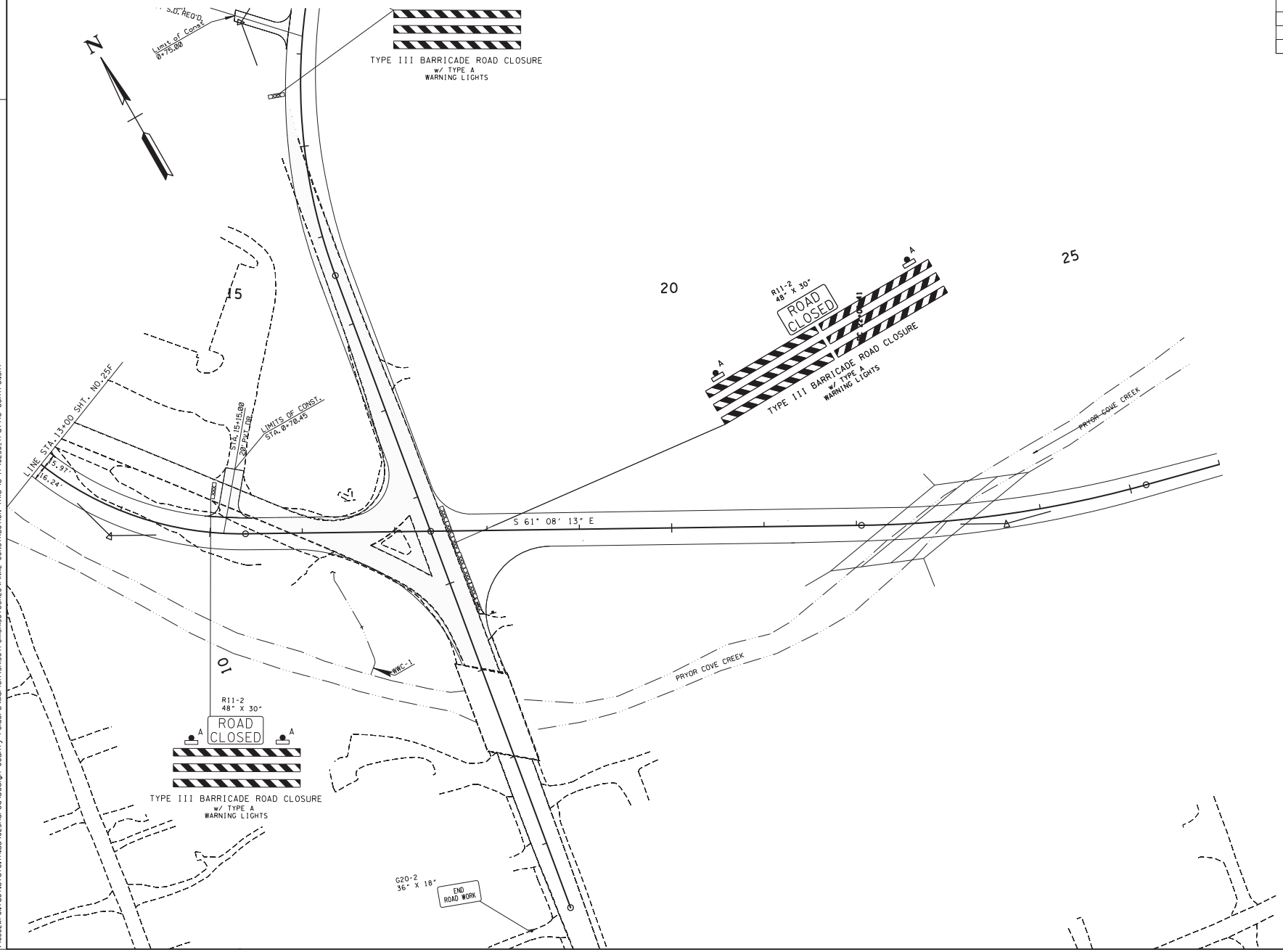
STA. 1+00 TO STA. 13+00

SCALE: 1"= 50'

6-JUN-2015 07:57
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\025F_traffic control.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	25G



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 0000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE __2_

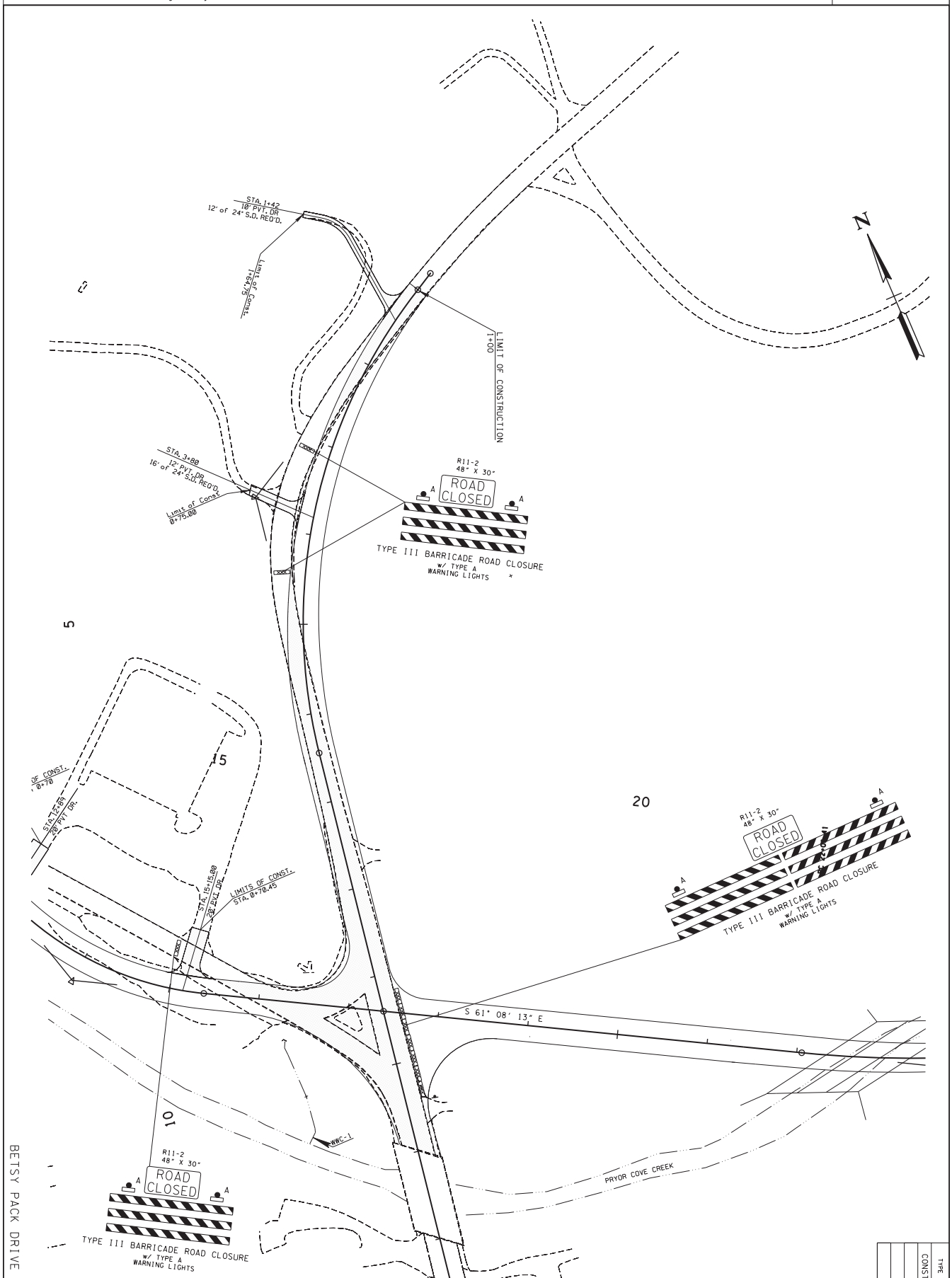
STA. 13+00 TO STA. 26+00

SCALE: 1"= 50'

16-JUN-2015 07:57
\\J02WF01\tdot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\025G_traffic control.SHT

6-JUN-2015 07:57
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\025H_traffic control.SHT

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



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	25H

SEALED BY

ROBERT W. ROGERS
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE
COMMERCE
NO. 0000

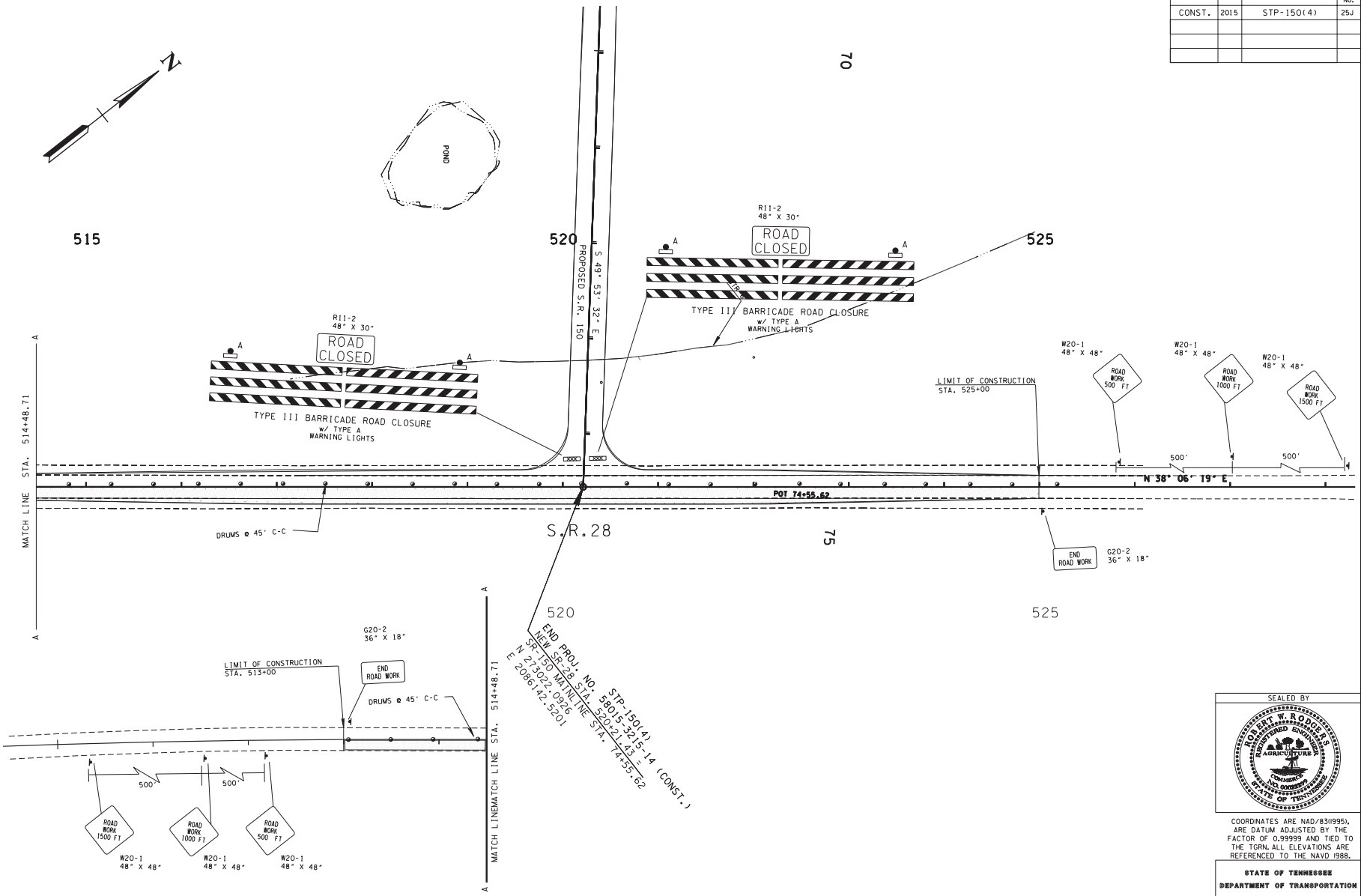
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.9999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC
CONTROL PLAN
PHASE _2_

STA. 0+77 TO STA. 13 +74
SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	25J



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00023999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE _2__

STA. 513+00 TO STA. 525+00

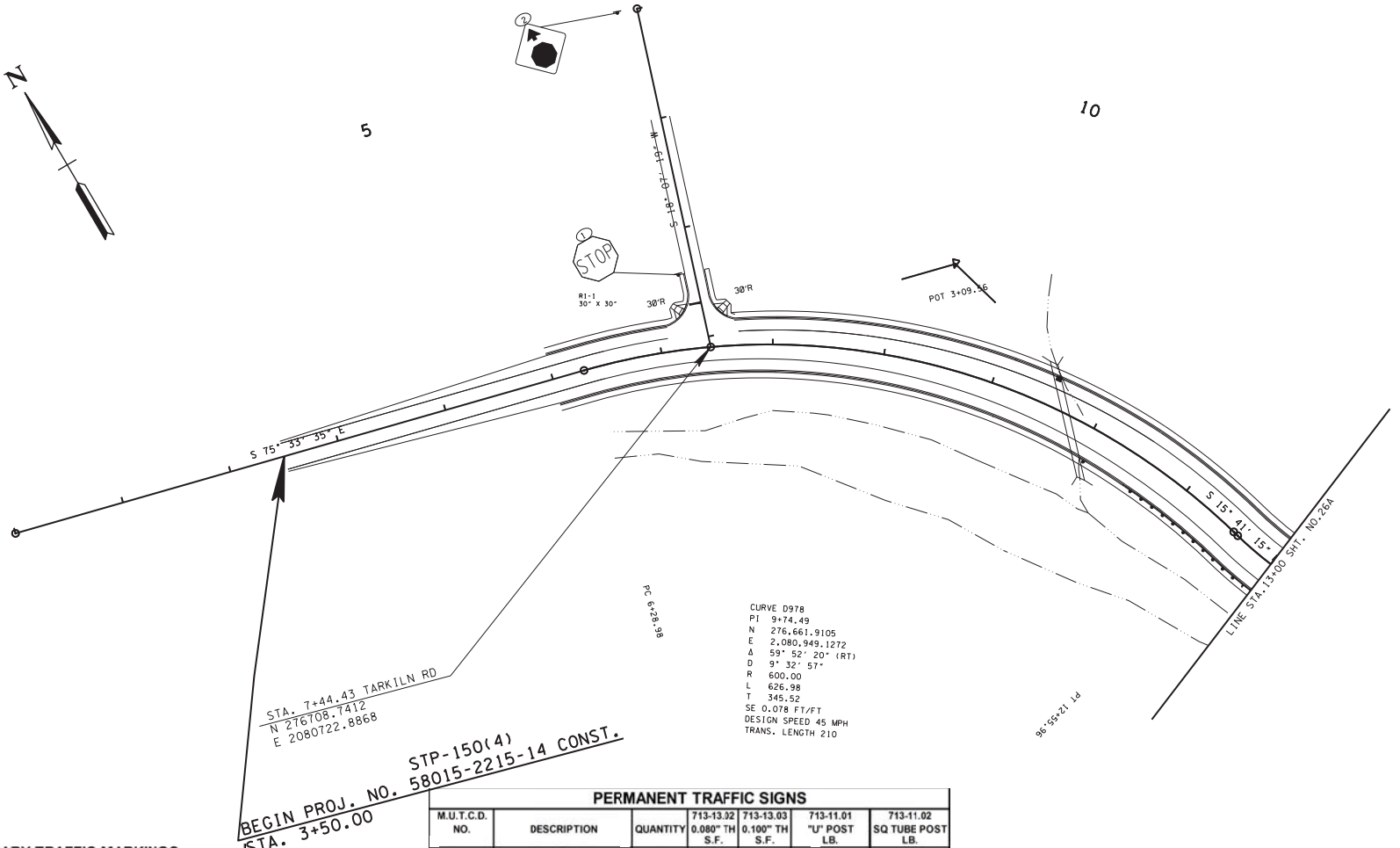
SCALE: 1"= 50'

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

6-JUN-2015 07:57
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\025J_traffic control.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	26



TEMPORARY TRAFFIC MARKINGS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	4.2
716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	209.0

PERMANENT TRAFFIC MARKINGS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
716-01.21	SNOWPLOWABLE PVMT MARKERS (BI-DIRECTIONAL) (1 COLOR)	EACH	537
716-01.22	SNOWPLOWABLE PVMT MARKERS (MONO-DIRECT) (1 COLOR)	EACH	110
716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	240
716-02-05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	234
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	24
716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	173
716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	6
716-04.04	PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)	L.F.	64
716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	9
716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	SF	90
716-13.01	SPRAY THERMO PAVEMENT MARKING (60mil) (4IN LINE)	L.M.	8.3
716-13.04	SPRAY THERMO PAVEMENT MARKING (60mil) (4IN DOTTED LINE)	L.F.	122

PERMANENT TRAFFIC SIGNS

M.U.T.C.D. NO.	DESCRIPTION	QUANTITY	713-13.02 0.080" TH S.F.	713-13.03 0.100" TH S.F.	713-11.01 "U" POST LB.	713-11.02 SQ TUBE POST LB.
R1-1	SIGNS (STOP)	10	90.00			369.90
R1-2	SIGNS (YIELD)	3	13.50			101.23
R2-1	SIGNS (45MPH)	1	7.50			38.07
R2-1	SIGNS (55MPH)	2	15.00			76.14
R3-8	SIGNS (TURN)	1	6.25			36.99
W3-1	SIGNS (STOP AHEAD)	8		72.00		321.89
W3-3	SIGNS (SIGNAL)	6		54.00		241.42
W3-5	SIGNS (45MPH AHEAD)	1		9.00		40.24
W11-2	SIGNS (CROSSWALK)	2		18.00		0.00
W16-7P	SIGNS (ARROW)	2	4.00			122.82
TN-5	SIGNS (CREEK)	2		12.00	101.00	
TN-6c	SIGNS (TN ROUTE)	7	35.00			
TN-22a	SIGNS (SCENIC)	12	24.00			685.63
TN-30	SIGNS (N.S.)	2	6.25			81.54
M1-4	SIGNS (US ROUTE)	13	52.00			
M2-1	SIGNS (JCT)	2	4.38			81.54
M3-1	SIGNS (NORTH)	8	16.00			
M3-3	SIGNS (SOUTH)	5	10.00			42.40
M5-1	SIGNS (LEFT)	1	2.19			
M6-1	SIGNS (LEFT/RIGHT)	4	8.75			
M6-3	SIGNS (STRAIGHT)	3	6.5625			
D1-2	SIGNS (DESTINATION)	5		71.25	406.25	
TOTAL			301.38	236.25	507.25	2239.81

PAVEMENT MARKINGS LEGEND

SSWL	SINGLE SOLID WHITE LINE
DSYL	DOUBLE SOLID YELLOW LINE
SBYL	SINGLE BROKEN YELLOW LINE

SEE STD. DWG. NOS. T-M-1 THRU T-M-4

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMISSION NO. 0000999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

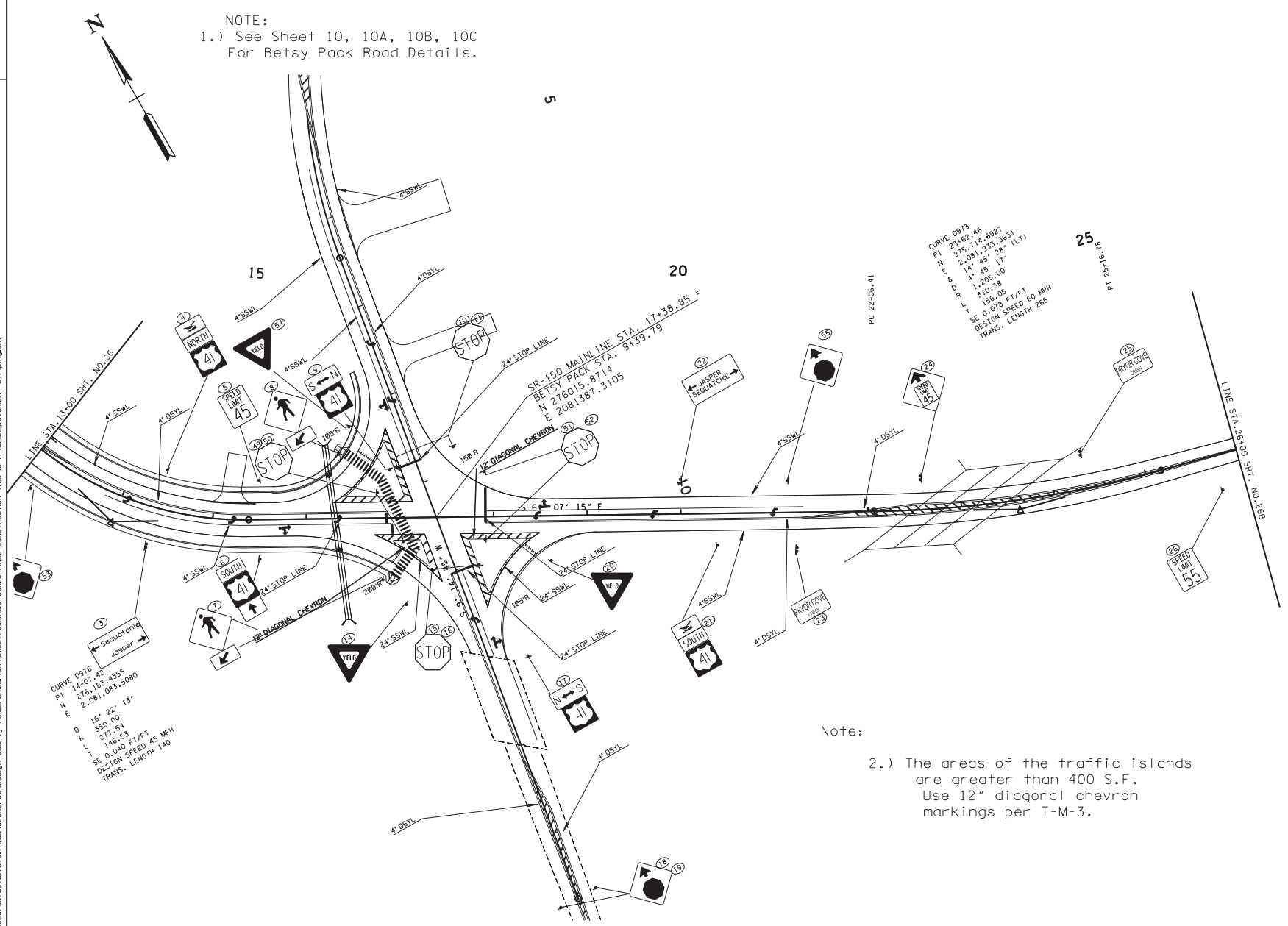
STA.1+00 TO STA.13+00

SCALE: 1"=50 '

16-JUN-2015 09:45
\\J02\FOL1\dot\state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\026_pavement striping.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	26A



Note:

2.) The areas of the traffic islands are greater than 400 S.F. Use 12" diagonal chevron markings per T-M-3.

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
No. 0008899
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

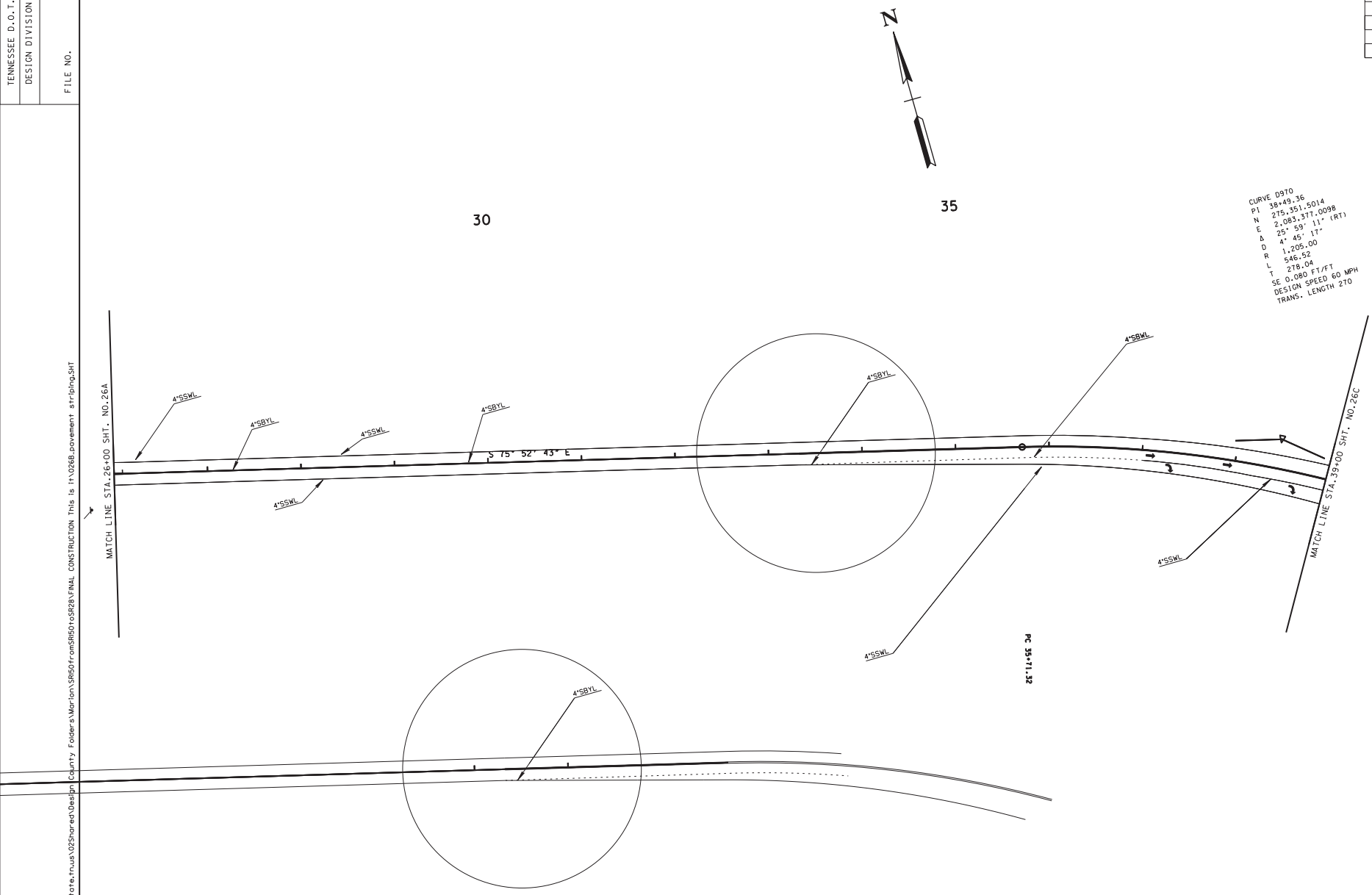
STA.13+00 TO STA.26+00

SCALE: 1"=50 '

6-JUN-2015 09:46
\\J02WF01.tdot.state.tn.us\025Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is I:\026A_pavement striping.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	26B



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMISSIONER
NO. 000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

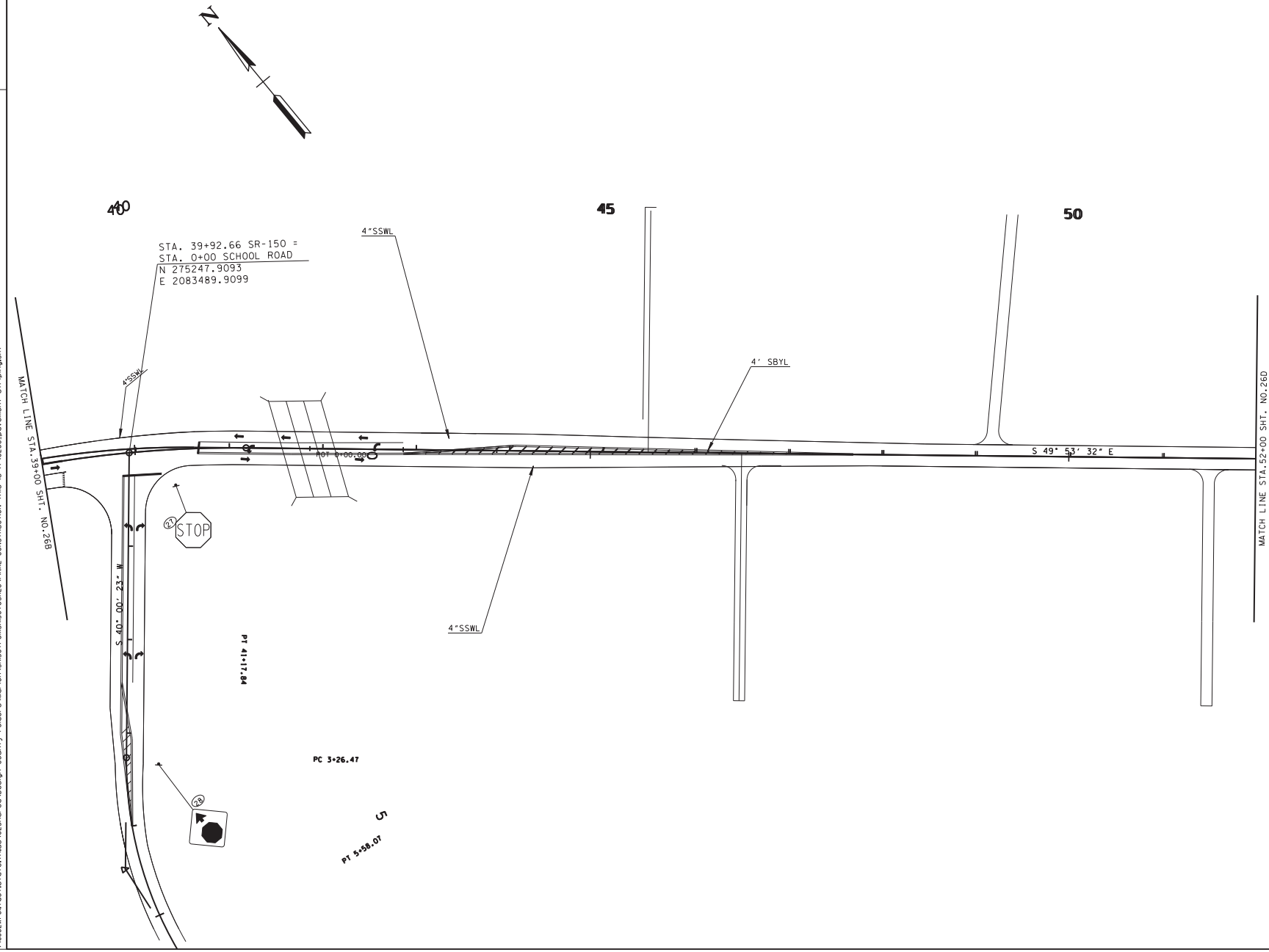
STA.26+00 TO STA.39+00

SCALE: 1"=50 '

6-JUN-2015 09:46
\\J02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR50fromSR51toSR28\FINAL CONSTRUCTION This is I:\026B_pavement striping.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	26C

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



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00025099
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

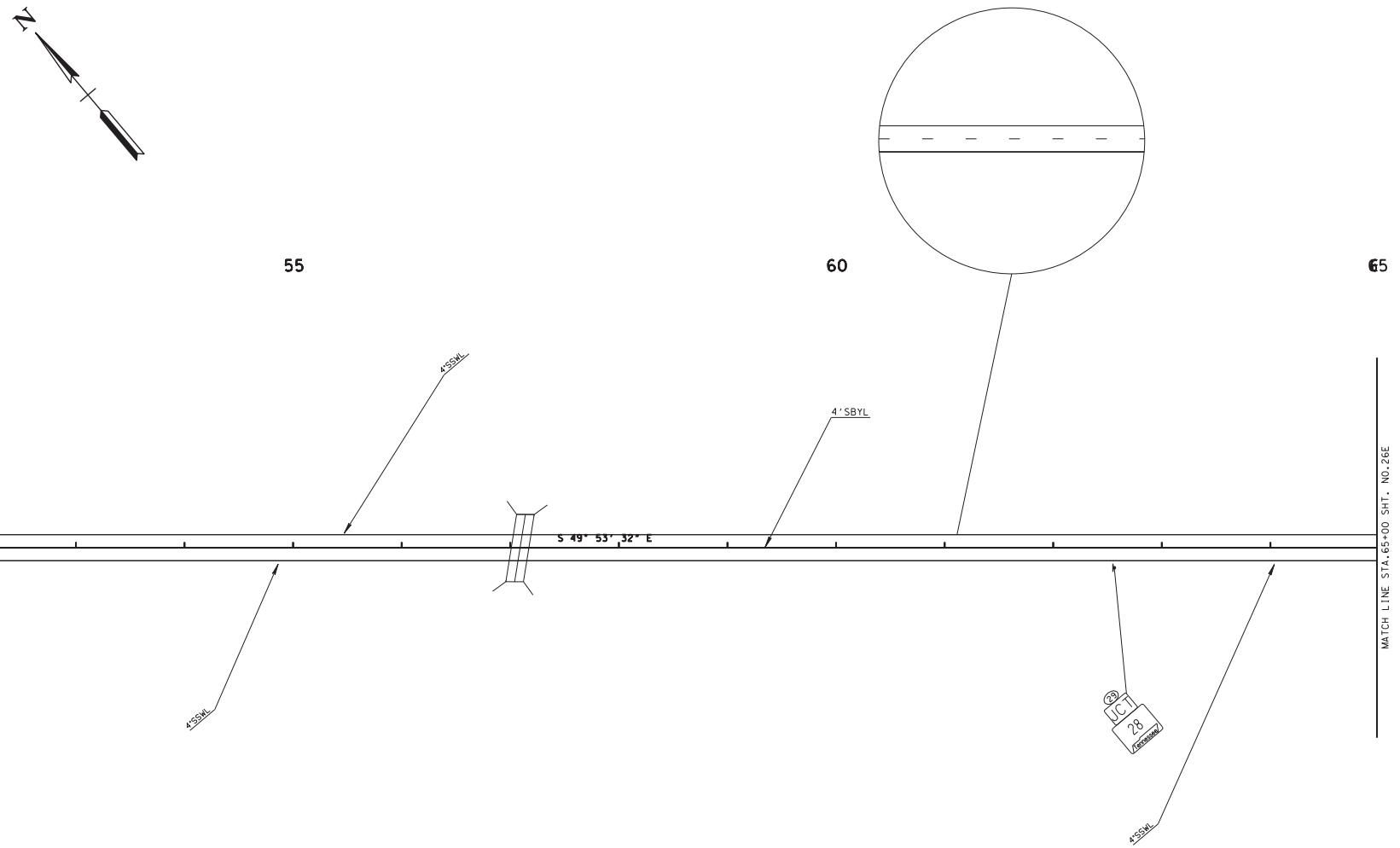
STA.39+00 TO STA.52+00

SCALE: 1"=50 '

6-JUN-2015 09:46
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\026C_pavement striping.SHT

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	26D



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
No. 0000000
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

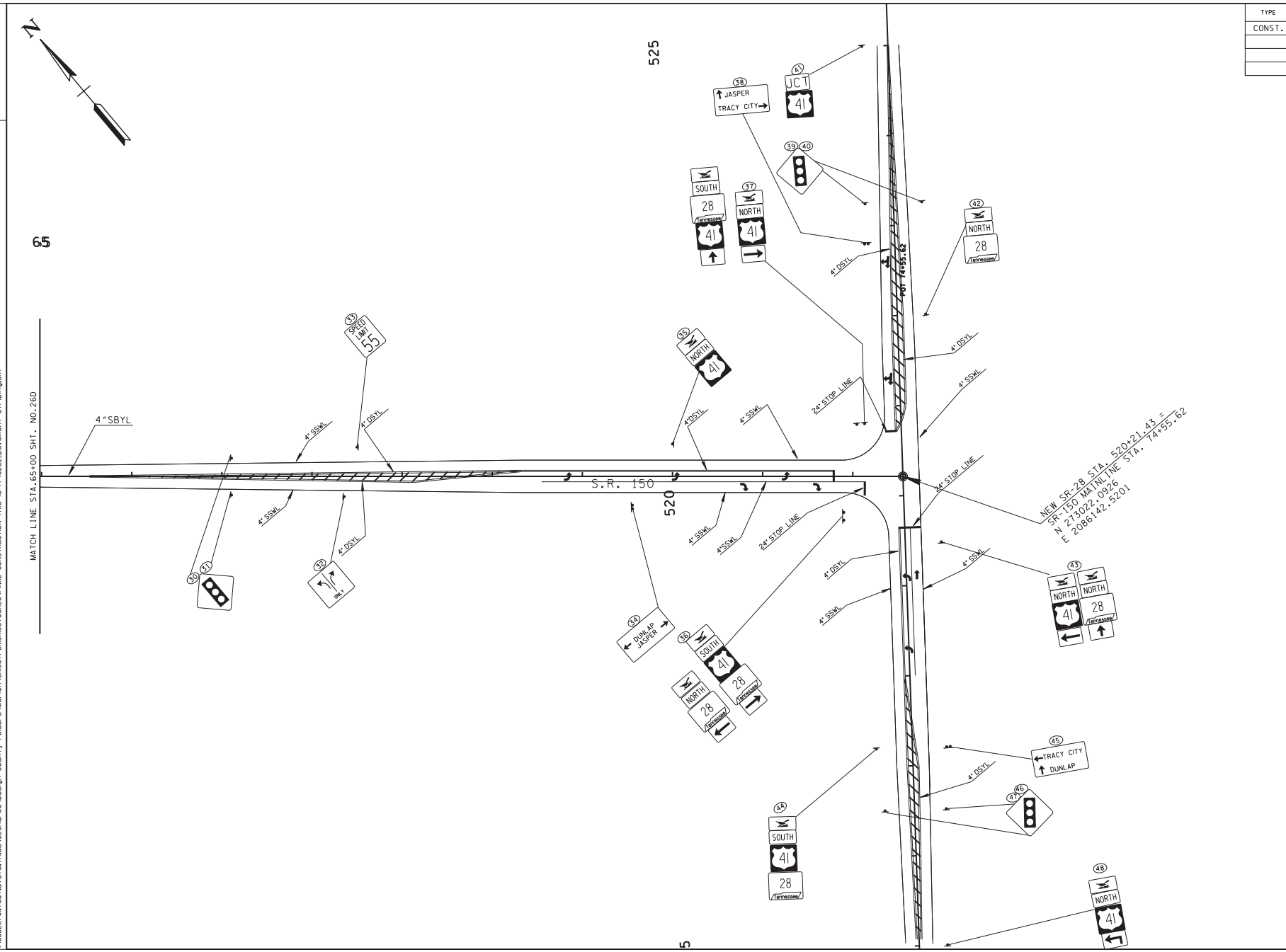
STA.52+00 TO STA.65+00

SCALE: 1"=50 '

6-JUN-2015 09:46
\\J02WF01.tdot.state.tn.us\023Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is i:\026D_pavement striping.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	26E

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



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00032999
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

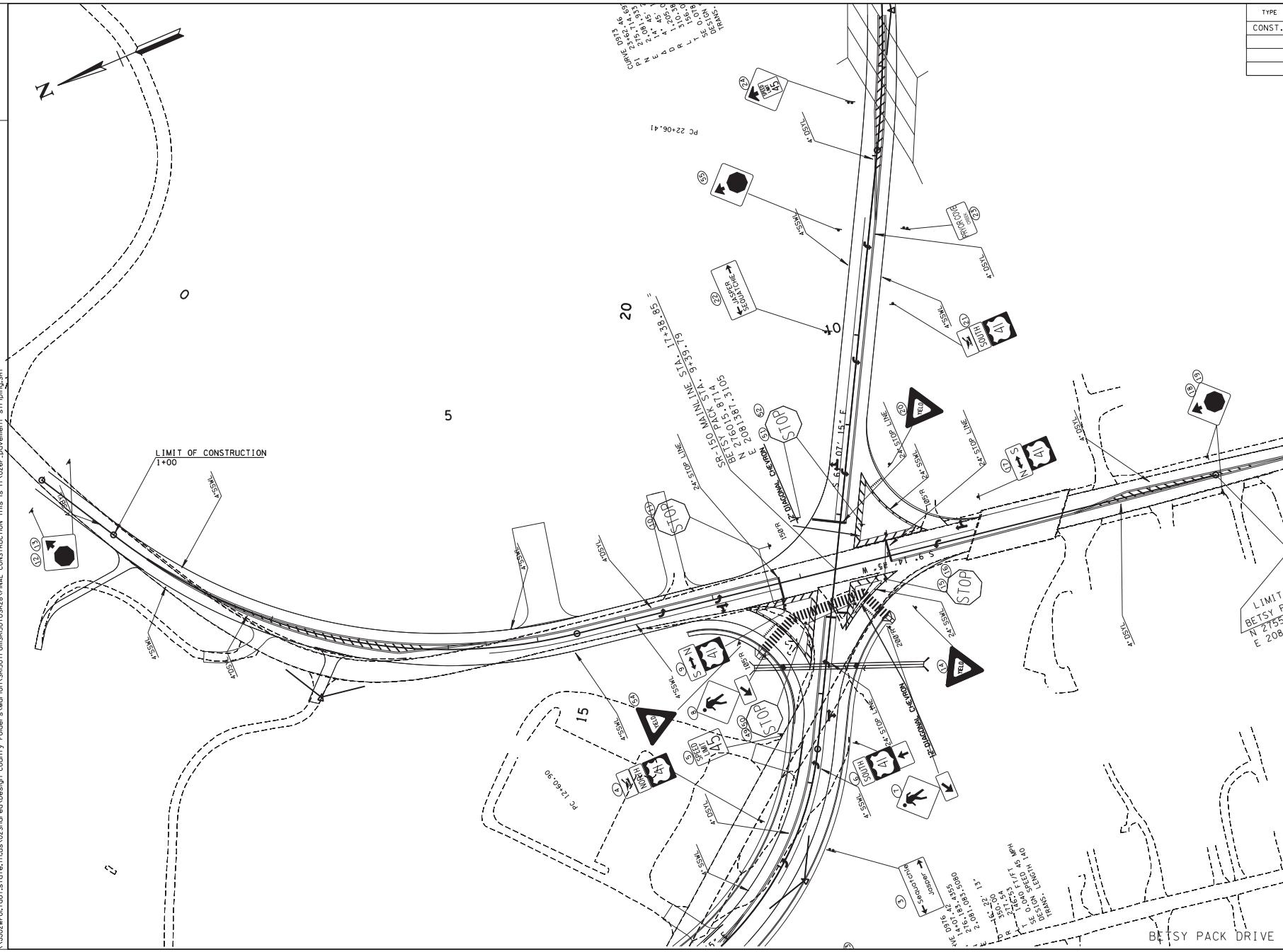
STA.65+00 TO STA.75+00

SCALE: 1"=50 '

6-JUN-2015 09:46
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\026E_pavement striping.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	26F

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



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00052599
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

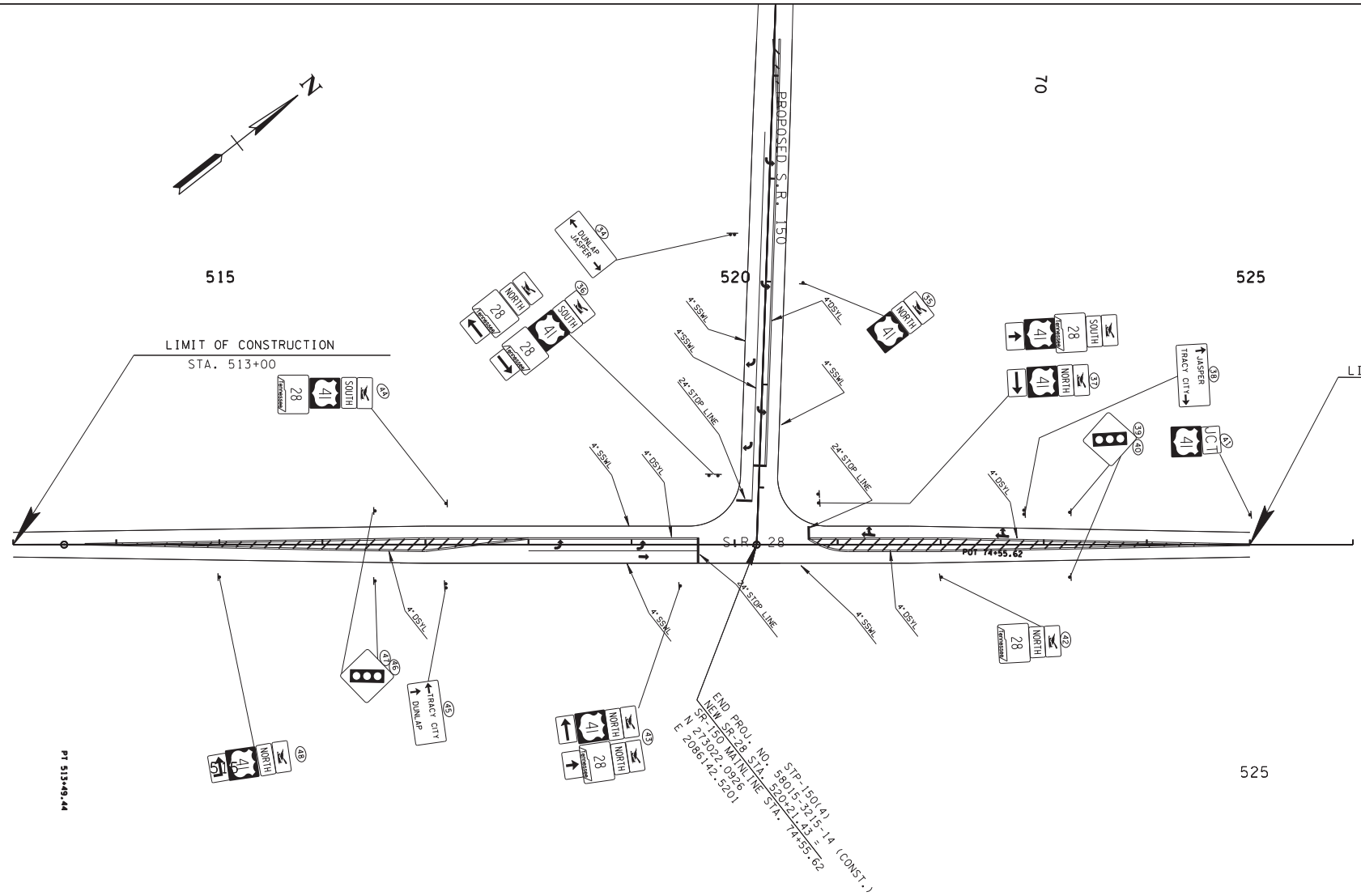
SIGNING & PAVEMENT MARKING

STA.00+77 TO STA.13+74

SCALE: 1"=50'

6-JUN-2015 09:46
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\026F_pavement striping.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	26G



SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 00022599
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

STA.513+00 TO STA.526+00

SCALE: 1"=50 '

S.R. 28

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

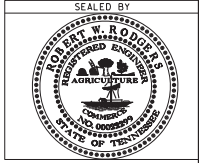
6-JUN-2015 09:46
\\JO2WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\026G_pavement striping.SHT

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
5	R2-1		30"	36"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	13'-0"				7'-0"	
26	R2-1		30"	36"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	13'-0"				7'-0"	
33																	13'-0"					
1	R1-1		36"	36"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P8	12'-6"				5'-0"	
10																	12'-6"					
11																	12'-6"					
15																	12'-6"					
16																	12'-6"					
27																	12'-6"					
49																	12'-6"					
50																	12'-6"					
51																	12'-6"					
52																	12'-6"					
2	W3-1		36"	36"									(ARROW) BLACK (STOP) RED (REF.)	YELLOW (REF.)	0.100" SHEET ALUMINUM	P8	14'-0"				5'-0"	TO BE LOCATED AS DIRECTED BY THE ENGINEER
12																	14'-0"					
13																	14'-0"					
18																	14'-0"					
19																	14'-0"					
28																	14'-0"					
53																	14'-0"					
55																	14'-0"					
7	W11-2		36"	36"									BLACK	YELLOW (FLOR.)	0.100" SHEET ALUMINUM	P5	12'-0"				5'-0"	REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A
8	W16-7P		24"	12"											0.080" SHEET ALUMINUM		12'-0"					
24	W3-5		36"	36"									BLACK WHITE (REF.)	YELLOW (REF.)	0.100" SHEET ALUMINUM	P8	14'-0"				7'-0"	
30	W3-3		36"	36"									BLACK RED (REF.) GREEN (REF.)	YELLOW (REF.)	0.100" SHEET ALUMINUM	P8	14'-0"				5'-0"	
31																	14'-0"					
39																	14'-0"					
40																	14'-0"					
46																	14'-0"					
47																	14'-0"					
14	R1-2		36"X36"X36"										RED (REF.)	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	11'-0"				5'-0"	
20																	11'-0"					
54																	11'-0"					
32	R3-8		30"	30"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	12'-6"				7'-0"	

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	26H

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

16-JUN-2015 10:21
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\Sign Schedules.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(40)	26J

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
4	TN-22a NORTH M3-1 41 M1-4		24" 24" 24"	12" 12" 24"									GREEN BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	14'-6"				7'-0"	
35																	14'-6"					
9	S ↔ N TN-39 41 M1-4		30" 24"	15" 24"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P2	13'-6"				7'-0"	
6	SOUTH M3-3 41 M1-4 M6-3		24" 24" 21"	12" 24" 15"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	15'				7'-0"	
17	N ↔ S TN-39 41 M1-4		30" 24"	15" 24"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P2	13'-6"				7'-0"	
29	JCT M2-1 28 Tennessee TN-6c		21" 30"	15" 24"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P2	13'-6"				7'-0"	
36	TN-22a SOUTH M3-3 TN-22a NORTH M3-1 41 M1-4 TN-6c 28 Tennessee 28 Tennessee TN-6c M6-1 M6-1		24" 24" 24" 30" 21"	12" 12" 24" 24" 15"									GREEN BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P5 P6	11'-0" 13'-6"				5'-0" 5'-0"	REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A
37	TN-22a SOUTH M3-3 28 Tennessee TN-6c TN-22a NORTH M3-1 41 M1-4 41 M1-4 M6-3 M6-1		24" 24" 30" 24" 21"	12" 12" 24" 24" 15"									GREEN BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P6 P5	13'-6" 11'-0"				5'-0" 5'-0"	REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A
41	JCT M2-1 41 M1-4		21" 24"	15" 24"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P2	13'-6"				7'-0"	
42	TN-22a NORTH M3-1 28 Tennessee TN-6c		24" 24" 30"	12" 12" 24"									GREEN BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	14'-6"				7'-0"	
21	TN-22a SOUTH M3-3 41 M1-4		24" 24" 24"	12" 12" 24"									GREEN BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	14'-6"				7'-0"	

SEALED BY

ROBERT W. RODGERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 0009999
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

26-JUN-2015 10:21
\\J02WF01.tdot.state.tn.us\025shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\Sign Schedules.dgn

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	26K

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
43	TN-22a M3-1 NORTH M1-4 41 M6-1 / TN-22a M3-1 NORTH TN-6c 28 Tennessee M6-3		24" 24" 24" 30" 21"	12" 12" 24" 24" 15"									GREEN BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P5 P5	11'-0" 11'-0"				5'-0"	REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A
44	TN-22a SOUTH M3-3 41 M1-4 28 Tennessee TN-6c		24" 24" 24" 30"	12" 12" 24" 24"									GREEN BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P6	11'-9"				5'-0"	REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A
48	TN-22a NORTH M3-1 41 M1-4 M5-1		24" 24" 24" 21"	12" 12" 24" 15"									GREEN BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P5	11'-0"				5'-0"	REQUIRES SLIP BASE ITEM NO. 713-11.21 SEE STD. DWG. T-S-23A
3	← Sequatchie / Jasper → D1-2		72"	30"			6"	4.5"				6"X9"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U3	h_1=12'-6" h_2=13'-0"				7'-0"	
22	← Jasper / Sequatchie → D1-2		72"	30"			6"	4.5"				6"X9"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U3	h_1=12'-6" h_2=13'-0"				7'-0"	
23 25	Pryor Cove CREEK TN-5		48"	18"									WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U1	h_1=11'-6" h_2=12'-0" h_1=11'-6" h_2=12'-0"				7'-0"	
34	← Dunlap / Jasper → D1-2		54"	30"			6"	4.5"				6"X9"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U3	h_1=12'-6" h_2=13'-0"				7'-0"	
38	↑ Jasper / Tracy City → D1-2		72"	30"			6"	4.5"				6"X9"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U3	h_1=12'-6" h_2=13'-0"				7'-0"	
45	← Tracy City / ↑ Dunlap D1-2		72"	30"			6"	4.5"				6"X9"	WHITE (REF.)	GREEN (REF.)	0.100" SHEET ALUMINUM	U3	h_1=12'-6" h_2=13'-0"				7'-0"	

SEALED BY

ROBERT W. RODGERS REGISTERED ENGINEER AGRICULTURE COMMISSION NO. 0000000 STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

16-JUN-2015 10:21
\\J02WF01.tdot.state.tn.us\023shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is I:\Sign Schedules.dgn

ESTIMATED SIGNAL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	713-15-07	SUSPENDED FLAT SHEET ALUMINUM SIGN (0.080" THICK)	EACH	1
2	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	4
2	730-02.17	SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE)	EACH	2
	730-03.20	INSTALL PULL BOX (TYPE A)	EACH	4
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	5
3	730-05.01	ELECTRICAL SERVICE CONNECTION	EACH	1
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	581
	730-09.01	SPAN WIRE ASSEMBLY (19,950 LBS. MIN. BRK STRENGTH)	L.F.	525
	730-10.01	TETHER WIRE ASSEMBLY - 1/4" DIAMETER	L.F.	385
	730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	960
	730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	28
	730-13.03	VEHICLE DETECTOR (4 - CHANNEL, RACK MOUNT)	EACH	2
	730-14.01	SHIELDED DETECTOR CABLE	L.F.	1559
	730-14.02	SAW SLOT	L.F.	620
	730-14.03	LOOP WIRE	L.F.	1566
	730-15.31	CABINET (FOUR PHASE BASE MOUNTED)	EACH	1
	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	1
4	730-23.01	STEEL STRAIN POLE (SIGNAL SUPPORT)	EACH	3
5	730-23.02	STEEL STRAIN POLE (SIGNAL SUPPORT)	EACH	1

FOOTNOTES

(1) TO INCLUDE ONE (1) R10-12 SIGN

(2) SIGNAL HEADS SHALL INCLUDE LOUVERED BACKPLATES WITH A 1" MINIMUN YELLOW RETRO REFLECTIVE BORDER AROUND THE PERIMETER OF THE FACE OF THE BACKPLATE. THE RETRO REFLECTIVE BORDER TO BE MADE OF A TYPE III PRISMATC OR BETTER MATERIAL.

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

(4) POLE NOS. 1, 2 & 4
MOMENT CAPACITY: 239,600 FT.- LBS.
FOOTING DIAMETER: 3'-0"
FOOTING DEPTH: 20'-0"

(5) POLE NO. 3
MOMENT CAPACITY: 275,600 FT.- LBS.
FOOTING DIAMETER: 3'-0"
FOOTING DEPTH: 22'-0"

SPECIAL NOTES REGARDING SIGNAL HEADS

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

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

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

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

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

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

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	2A1

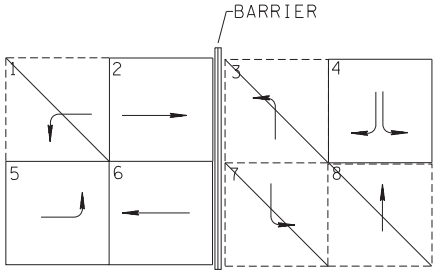
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED SIGNAL QUANTITIES AND SPECIAL NOTES

6/8/2015 7:40:46 AM
C:\PROJECTS\Marion\SR150_2015\MASR150_SigQuan.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	27A



NEMA EIGHT PHASE DESIGNATIONS

ACTIVE PHASE

INACTIVE PHASE (NOT USED)

- OPERATION IS DUAL ENTRY MODE, FULL SKIP CAPABILITY

- SINGLE DIRECTION, LAGGING LEFT TURN PHASES ARE NOT ALLOWED

- ALL SIGNAL DISPLAYS AND CLEARANCES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

BASIC OR SEMI - ACTUATED TIMING (SECS)

PHASE	INITIAL INTERVAL	VEHICLE INTERVAL	MAX I	MAX II	CLEARANCE		PEDESTRIAN		RECALL TO	MEMORY POSITION (1)	LEFT TURN OPERATION (2)
					YELLOW	ALL RED	WALK	FLASHING DONT WALK			
4	6.0	2.0	10.0	-	3.0	3.0			-	L	PROT
5	6.0	2.0	16.0	-	3.0	3.0	-	-	-	NL	P+P

(1) NL = NONLOCK
L = LOCK

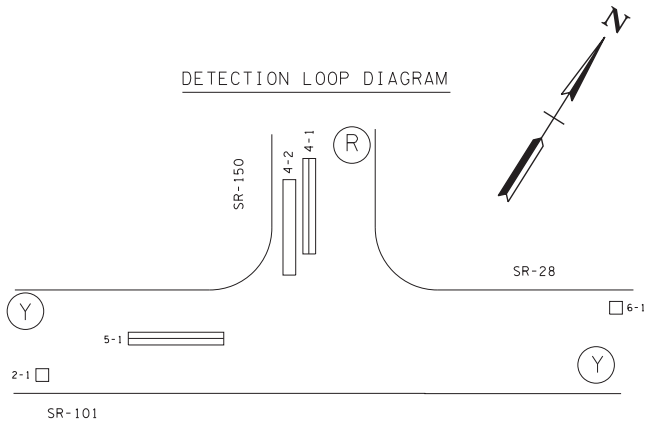
(2) PERM = PERMITTED
PROT = PROTECTED
P + P = PROT/PERM

VOLUME - DENSITY TIMING (SECS)

PHASE	INITIAL INTERVAL	ADDED INITIAL PER ACTUATION	PASSAGE TIME	MINIMUM GAP	TIME BEFORE REDUCTION	TIME TO REDUCE	MAX I	MAX II	CLEARANCE		PEDESTRIAN		RECALL TO	MEMORY POSITION (1)
									YELLOW	ALL RED	WALK	FLASHING DONT WALK		
2	10.0	2.2	5.0	3.0	10.0	10.0	41.5	-	5.0	1.5			-	L
6	10.0	2.2	5.0	3.0	10.0	10.0	25.5	-	5.0	1.5			-	L

THESE TIMINGS ARE INITIAL AND MAY BE ADJUSTED BY THE CONTRACTOR BASED ON FIELD OBSERVATIONS TO PROVIDE EFFICIENT OPERATION.

DETECTION LOOP DIAGRAM



FLASHING OPERATION (Y) OR (R)

DETECTION LOOP NUMBERING

LOOP AND AMP ASSIGNMENTS

	LOOP #	VEHICLE DETECT #	LOOP LENGTH	AMP MODE	AMP. FEATURE TIMING(SEC)	ASSOC. Ø
	2-1	1	1@6'	PULSE		2
*	4-1	2	1@50'	PRES		4
	4-2	2	1@50'	PRES	5 SEC DELAY	4
*	5-1	1	1@50'	PRES		5
	6-1	1	1@6'	PULSE		6

* QUADRAPOLE LOOP

- ALL LOOPS ARE 6' IN WIDTH, CENTERED IN TRAFFIC LANE. REFER TO STD. DWG. T-SG-3 FOR NUMBER OF TURNS FOR VARIOUS LOOP LENGTHS.

- LOOP WIRE CONNECTIONS SHALL BE WIRED TO PROVIDE THE APPROPRIATE INDUCTANCE AS REQUIRED BY STD. DWG. T-SG-3.

SEALED BY

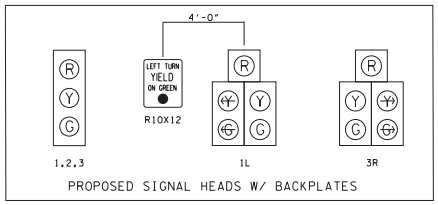
SR-28 INTERSECTION AT SR-150

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

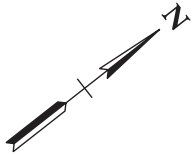
PHASING, TIMING, DETECTOR ASSIGNMENT

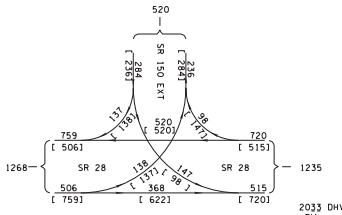
EIGHT PHASE

6/8/2015 7:48:39 AM
C:\PROJECTS\Morton\SR150_2015\MASR150_SR28Phase.dgn



PROPOSED SIGNAL HEADS W/ BACKPLATES





2033 DHV
PM
[AM]
DATE: SEPTEMBER 14, 2010

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	27

520

SR-150 S 49° 53' 32" E

ONLY

ONLY

SR150 STA. 74+55.62 =
NEW SR28 STA. 520+21.43
N 273022.0926
E 2086142.5201

PROPOSED SIGNAL POLE #1
STA. 519+50.00 OFF 65.00' LT.

PROPOSED SIGNAL POLE #2
STA. 520+90.00 OFF 60.00' LT.

TYPE A

202' C (PVC)

1" C (PVC)

TYPE B

VOLUME DENSITY LOOP
405' FROM STOP BAR

SR-28
N 38° 06' 19" E

SR-28

N 38° 06' 19" E

1" C (PVC)

TYPE A

TYPE B

VOLUME DENSITY LOOP
405' FROM STOP BAR

PROPOSED SIGNAL POLE #4
STA. 519+50.00 OFF 60.00' RT.

PROPOSED SIGNAL POLE #3
STA. 520+90.00 OFF 60.00' RT.

SIGNAL SUPPORT POLE DATA					
POLE NO.	NORTHING	EASTING	GROUND ELEV. @ POLE	POLE TO POLE	ATTACHMENT ELEV.
1	273005.999	2086047.294	633.27	1 TO 2	666.92
2	273113.076	2086137.623	634.05	2 TO 3	666.77
3	273039.023	2086232.049	637.11	3 TO 4	665.94
4	272928.860	2086145.653	634.95	4 TO 1	666.26

NOTE: POLE LENGTHS MUST BE FIELD VERIFIED PRIOR TO FABRCATION

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGNAL LAYOUT

SR-150
AT
SR-28

SCALE: 1"=30 '

6/8/2015 7:47:07 AM
C:\PROJECTS\Marion\SR150_2015\MASR150_SR28sig_2015.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28

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

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

S.R. 150
B.O.P. TO E.O.P.
MARION COUNTY

SCALE: 1"=250'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28A

BOREHOLE ID / APPROXIMATE FINISHED GRADE / WATER LEVEL DELAYED READING / WATER LEVEL AT TIME OF DRILLING / EXISTING GROUND SURFACE ELEVATION / OFFSET DIRECTION LEFT OR RIGHT OF CL / BOREHOLE ELEVATION / SPT N-VALUE / SPT SYMBOL / LITHOLOGY GRAPHIC / UD / HOLE DEPTH

TERMINATION: BT-BORING TERMINATED, BR-BORING REFUSAL

TOPSOIL, ASPHALT, GRAVEL, FILL, LEAN CLAY (CL), FAT CLAY (CH), CLAYEY SILT (ML), CLAYEY SAND (SC), WELL-GRADED SAND (SW), SILTY SAND (SM), SANDSTONE FRAGMENTS

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

S.R. 150
B.O.P. TO 13+00
MARION COUNTY

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28B

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

S.R. 150
13+00 TO 26+00
MARION COUNTY

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28C

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

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

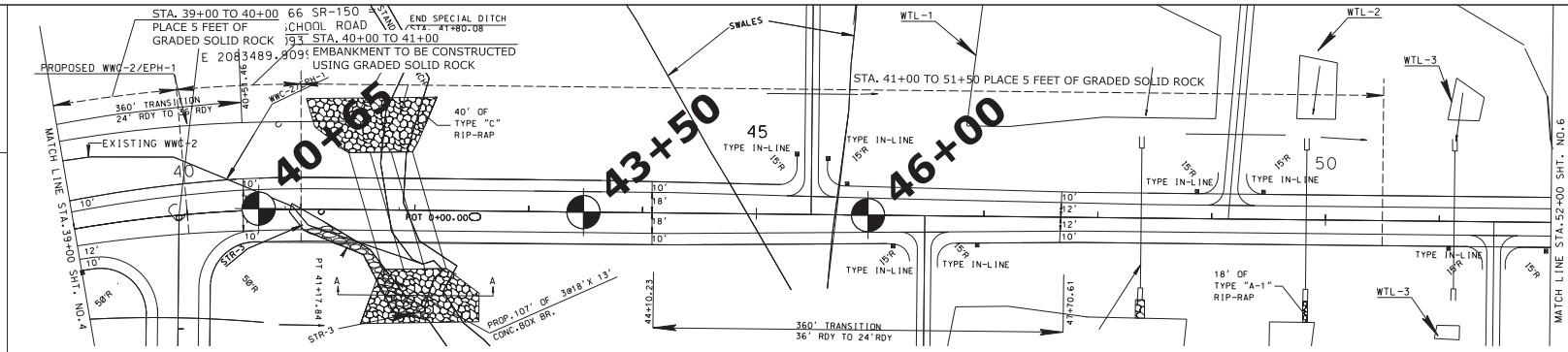
S.R. 150
26+00 TO 39+00
MARION COUNTY

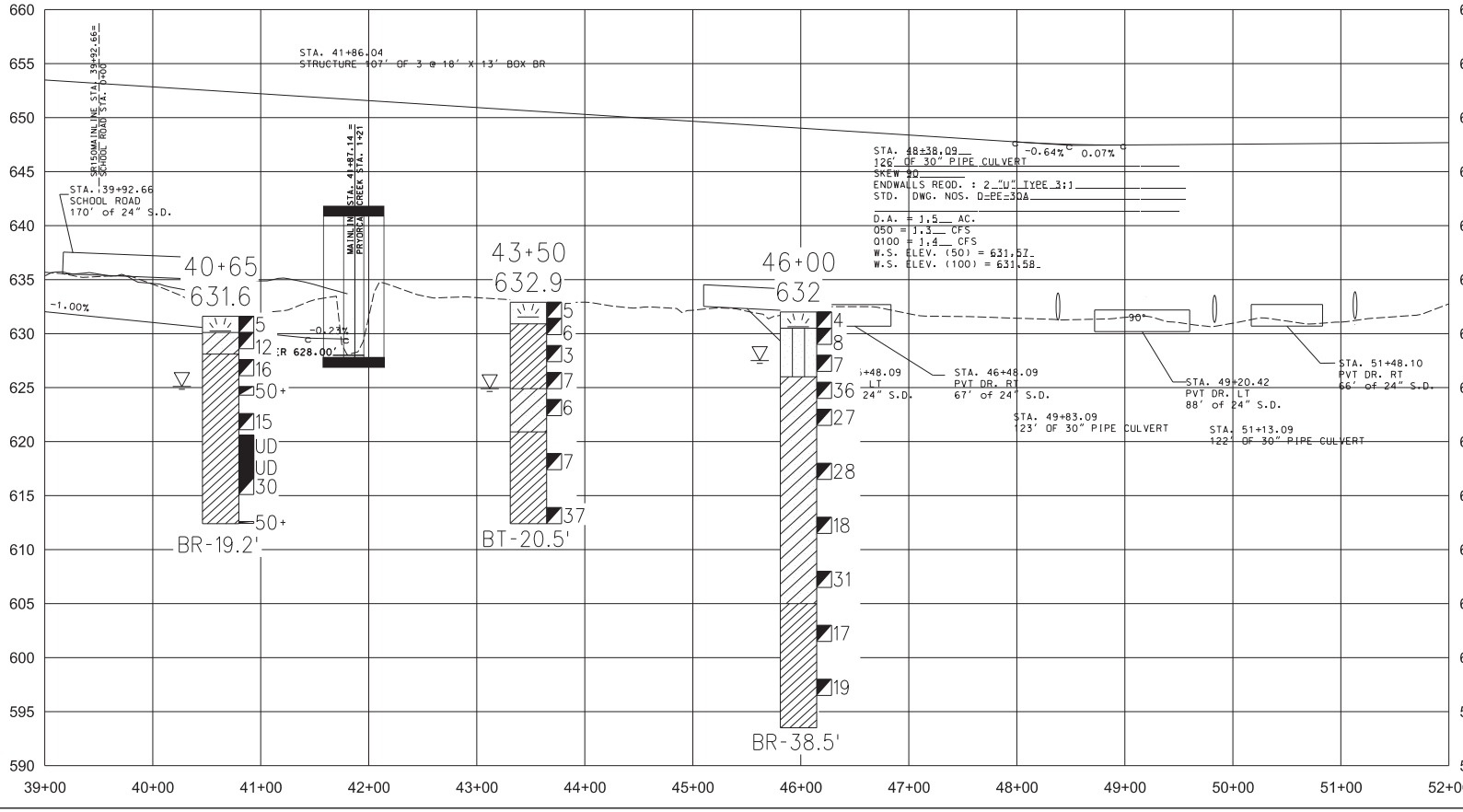
SCALE: 1"=50'

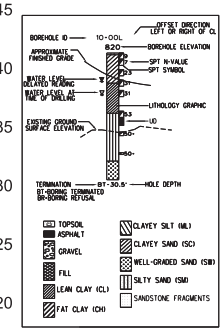
$$$$$$$$SYTIME$$$$$$$$
$$$$$$DGNSPEC$$$$$$$$

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

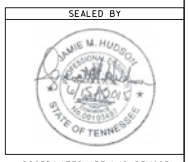
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28D







SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

S.R. 150
39+00 TO 52+00
MARION COUNTY

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28E

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

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

S.R. 150
52+00 TO 65+00
MARION COUNTY

SCALE: 1"=50'

$$$$SYTIME$$$$$
$$$$DGNSPEC$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28F

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

S.R. 150
65+00 TO 74+55.62
MARION COUNTY

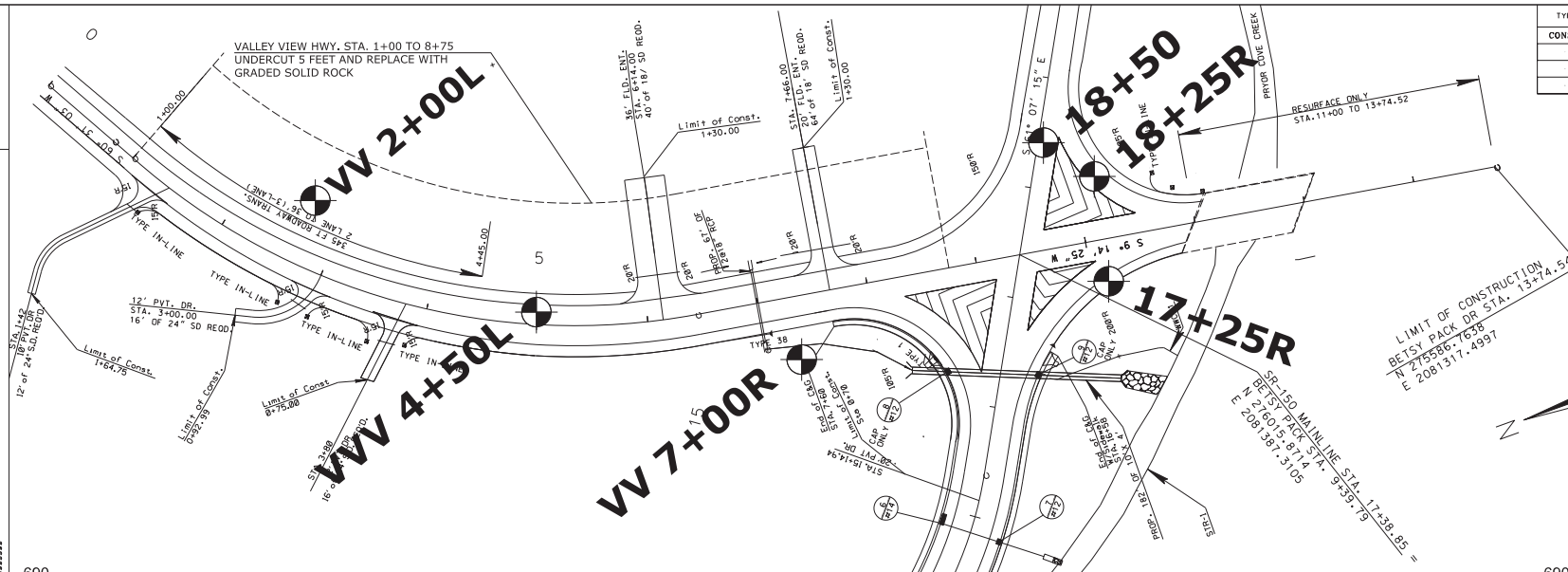
SCALE: 1"=50'

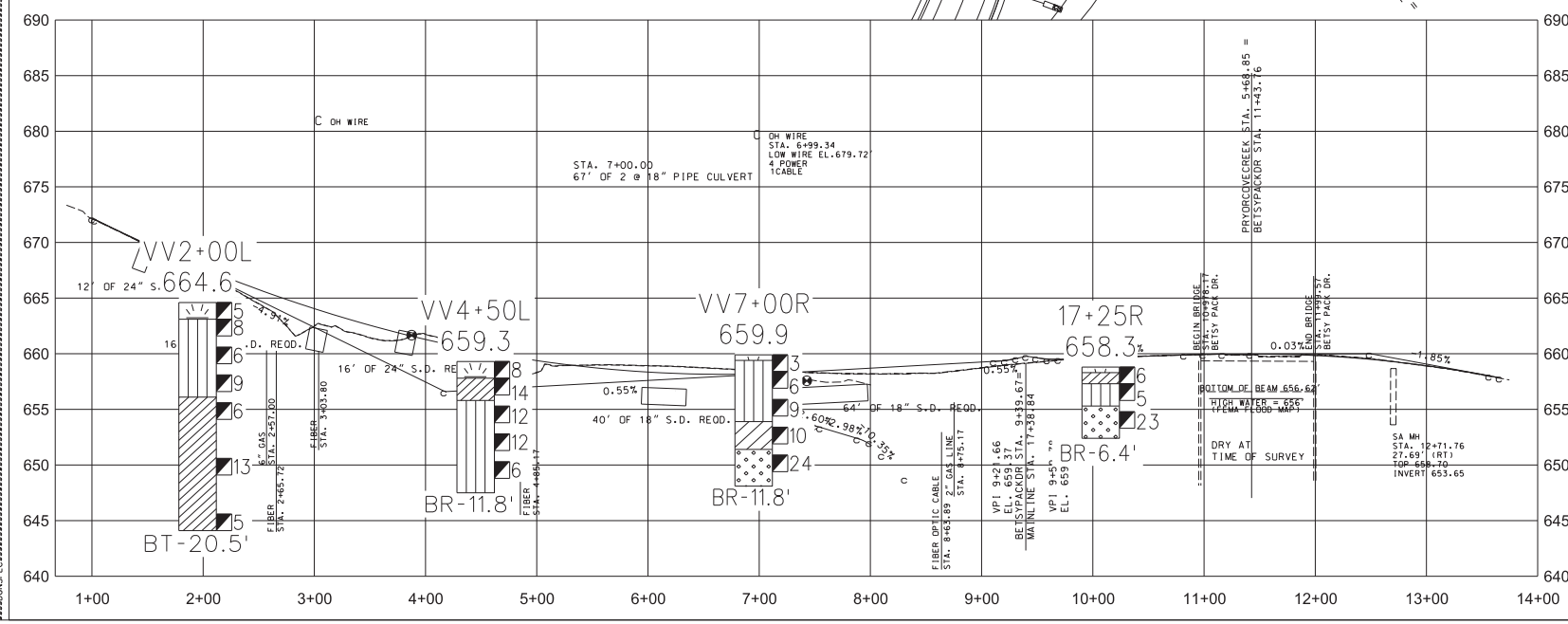
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. ___

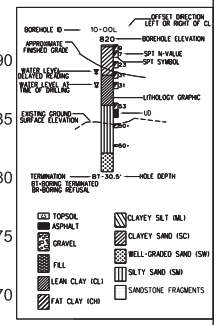
$$$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28G







SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

BETSY PACK ROAD
0+77 TO 13+74.54
MARION COUNTY

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28H

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

S.R. 28
513+00 TO 525+00
MARION COUNTY

SCALE: 1"=50'

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

$$$$$SYTIME$$$$$
$$$$DGNSPEC$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28J
.	.	.	.
.	.	.	.
.	.	.	.

Soil Descriptions

Spoons/Tubes Data

Sample No.	Station No.	Depth (feet)	Description	In-Situ Moisture (%)	LL	PI	AASHTO Class	USCS Class
			State Route 150					
1	6+60R	1 1/2 - 3	Red-brown sandy clay (CL)	12.5	24	11	A-6	CL
2		4 - 5 1/2	Brown and tan-brown sandy clay (CL) with rounded pebbles, coarse sand and sandstone fragments	8.4				
3		6 1/2 - 8		8.9				
4		9 - 10 1/2		11.3				
5		14 - 15 1/2		17.0				
1	13+50L	0 - 1 1/2	Topsoil (0.5'), brown sandy clay (CL) with some sandstone fragments	14.0				
2		1 1/2 - 3		12.9				
3		4 - 5 1/2	Brown silty sand (SM) with some sandstone fragments	11.4				
1	17+25R	0 - 1 1/2	Topsoil (0.5'), dark brown sandy clay (CL) with roots	17.4				
2		1 1/2 - 3	Red-brown and brown sandy clayey silt (ML)	20.8	28	14	A-6	CL
3		4 - 5 1/2	Brown, red-brown and tan coarse sand (SW) and rounded sandstone fragments	4.0				
1	18+25R	0 - 1 1/2	Topsoil (1'), brown sandy clay (CL) with roots	20.3				
2		1 1/2 - 3	Brown and red-brown silty sand (SM) and sandstone cobbles	7.5				
3		4 - 5 1/2		4.8				
1	21+00	0 - 1 1/2	Topsoil (0.5'), brown sandy clay (CL) with roots	21.2				
2		1 1/2 - 3		16.6				
3		4 - 5 1/2	Brown and red-brown coarse sand (SW) and sandstone cobbles	7.1				
4		6 1/2 - 8		5.2				
5		9 - 10 1/2	Light tan and red-brown coarse sand (SW) with clay lenses and pebbles	7.1				
6		14 - 15 1/2		13.2				
7		19 - 20 1/2		13.6				
8		24 - 25 1/2	Red-brown silty clay (CL) with coarse sand, rounded pebbles and sandstone fragments	19.7				
1	26+00	0 - 1 1/2	Topsoil (0.5'), brown to tan clayey fine to coarse sand (SC) with sandstone fragments	13.1				
2		1 1/2 - 3		11.3				
3		4 - 5 1/2		9.7				
4		6 1/2 - 8		8.4				
5		9 - 10 1/2	Orange-brown, brown and tan silty clay (CL) and coarse sand (SW) with sandstone fragments and rounded pebbles	14.0				
6		14 - 15 1/2		8.2				
7		19 - 20 1/2	Orange-brown, red-brown and yellow-brown clayey silt (ML) with some black staining, some fine sand, small weathered shale fragments and chert fragments	29.2				
8		24 - 25 1/2		26.2	45	26	A-7-6	CL
9		29 - 30 1/2		32.5				
1	31+00	0 - 1 1/2	Topsoil (0.4'), red-brown and brown sandy clay (CL) with roots	18.5				
2		1 1/2 - 3		18.6				
3		4 - 5 1/2		25.0				
4		6 1/2 - 8	Brown and red-brown coarse sand (SW) and sandstone cobbles	6.9				
2	36+00	1 1/2 - 3	Red-brown and brown sandy clay (CL) with some sandstone fragments	16.0				
3		4 - 5 1/2	Brown, red-brown and yellow-brown sandstone fragments, fine to coarse sand (SW) and clayey silt (ML)	15.7	23	11	A-2-6	CL
4		6 1/2 - 8		5.9				
5		9 - 10 1/2		8.5				
6		14 - 15 1/2	Yellow-brown and orange-brown silty clay (CH) with black staining, small weathered shale fragments and chert fragments	48.9	69	48	A-7-6	CH
7		19 - 20 1/2		40.2				
8		24 - 25 1/2		46.5				
9		29 - 30 1/2		50.6				
UD Tube	36+00A	14 - 16		39.3				
UD Tube		16 - 18		42.1				
2	40+65	1 1/2 - 3	Brown and tan clayey sand (SC) with small rock fragments	14.7				
3		4 - 5 1/2	Tan and orange-brown sandy clay (CL) with sandstone fragments	15.1				
4		6 1/2 - 8		48.0				
5		9 - 10 1/2	Yellow-brown, brown and gray silty clay (CL)	34.9				
6		15 - 16 1/2	Gray and brown sandy clay (CL) with weathered sandstone fragments	21.4				
2	46+00	1 1/2 - 3	Gray, tan and orange-brown clayey silty sand (SM) with some fine roots and sandstone fragments	24.3				
3		4 - 5 1/2		19.8	26	12	A-6	CL
4		6 1/2 - 8	Brown and red-brown clayey sand (SC) with sandstone fragments and rounded pebbles	17.2				
5		9 - 10 1/2		12.9				
6		14 - 15 1/2	Red-brown and tan-brown silty clayey fine sand (SC) with sandstone fragments	15.7				
7		19 - 20 1/2		19.5				
8		24 - 25 1/2		17.4	49	32	A-7-6	CL
9		29 - 30 1/2	Red-brown and yellow-brown silty clay (CL) with chert fragments	33.5				
10		34 - 35 1/2		31.2				
UD Tube		4 - 6	Gray, tan and orange-brown clayey silty sand (SM) with some fine roots and sandstone fragments	20.2				
UD Tube		28 - 30	Red-brown and yellow-brown silty clay (CL) with chert fragments	22.8				

Spoons/Tubes Data

Sample No.	Station No.	Depth (feet)	Description	In-Situ Moisture (%)	LL	PI	AASHTO Class	USCS Class
			State Route 150					
1	53+50	0 - 1 1/2	Topsoil (0.3'), orange-brown, red-brown and gray sandy silty clay (CL)	21.0				
2		1 1/2 - 3		20.9	43	26	A-7-6	CL
3		4 - 5 1/2		18.9				
4		6 1/2 - 8	Red-brown and tan clayey coarse sand (SC) with sandstone fragments	15.6				
5		9 - 10 1/2		14.2				
6		14 - 15 1/2	Yellow-brown and orange-brown silty clay (CL) with some fine sand and black staining	32.9	40	22	A-6	CL
7		19 - 20 1/2		31.5				
8		24 - 25 1/2	Tan and dark brown clayey silt (ML) with weathered shale	22.6				
UD Tube	53+50A	4-6	Orange-brown, red-brown and gray sandy silty clay (CL)	19.8				
1	58+50	0 - 1 1/2	Brown sandy clay (CL) with roots	16.2				
2		1 1/2 - 3	Yellow-brown, tan and orange-brown sandy clay (CL) with rock fragments	17.5				
3		4 - 5 1/2		12.7				
4		6 1/2 - 8		23.7				
5		9 - 10 1/2	Tan and orange-brown clayey sand (SC)	21.5				
6		14 - 15 1/2	Orange-brown, yellow-brown and brown sandy clay (CL) with sandstone fragments	20.2				
7		19 - 20 1/2		25.2				
1	61+00	0 - 1 1/2	Brown, yellow-brown and orange-brown clayey silty sand (SM) with roots	19.8				
2		1 1/2 - 3		18.5	23	8	A-4	CL
3		4 - 5 1/2	Yellow-brown, tan, orange-brown and brown silty sandy clay (CL)	23.6				
4		6 1/2 - 8		24.0				
5		9 - 10 1/2		30.7				
6		14 - 15 1/2	Gray and orange-brown clayey fine sand (SC)	23.7				
7		19 - 20 1/2	Orange-brown and gray-brown clayey coarse sand (SC) with sandstone fragments	17.1				
1	66+00	1 1/2 - 3	Brown silty clay (CL) with fine roots and occasional chert fragments	22.8				
2		4 - 5 1/2	Yellow-brown, orange-brown, brown, tan and gray silty clay (CL) with some fine sand and chert fragments	22.2				
3		6 1/2 - 8		22.3	43	20	A-7-6	CL
4		9 - 10 1/2		23.1				
5		14 - 15 1/2	Yellow-brown, red-brown and gray sandy clay (CL) with occasional chert fragments	19.2				
6		19 - 20 1/2	Yellow-brown, red-brown and gray silty clay (CL) with dark brown staining and chert fragments	22.6				
2	68+50	1 1/2 - 3	Gray-brown silty clay (CL) with some fine sand and occasional chert fragments	22.9				
3		4 - 5 1/2	Orange-brown, brown and gray silty clay (CL) with some fine sand and small chert fragments	19.0	39	21	A-6	CL
4		6 1/2 - 8	Orange-brown, tan and gray silty clay (CL) with dark brown staining	22.5				
5		9 - 10 1/2	Orange-brown and yellow-brown sandy clay (CL)	20.0				
6		14 - 15 1/2		19.8				
7		19 - 20 1/2	Gray-brown, brown and gray silty clay (CH) with occasional chert fragments	23.7				
UD Tube	68+50A	3 - 5	Orange-brown, tan and gray silty clay (CL) with dark brown staining	22.0				
2	71+00	1 1/2 - 3	Yellow-brown, red-brown and gray sandy clay (CL) with small chert fragments	25.9				
3		4 - 5 1/2	Red-brown and yellow-brown silty clay (CL) with occasional chert fragments	31.0				
4		6 1/2 - 8		35.2				
5		9 - 10 1/2		34.1				
6		14 - 15 1/2	Orange-brown and yellow-brown silty clay (CL) with dark brown staining	30.8				
7		20 - 21 1/2	Red-brown and yellow-brown silty clay (CH) with small rock fragments	35.8	66	41	A-7-6	CH
UD Tube		16 - 18	Orange-brown and yellow-brown silty clay (CL) with dark brown staining	31.8				
1	74+25	0 - 1 1/2	Topsoil (0.1'), brown and gray-brown silty clay (CL) with fine roots and chert fragments (FILL)	15.4				
2		1 1/2 - 3	Brown and yellow-brown sandy clayey silt (ML) with occasional small chert fragments and rounded pebbles	19.1	29	12	A-6	CL
3		4 - 5 1/2	Red-brown and yellow-brown silty clay (CH) with chert fragments	27.4	52	31	A-7-6	CH
4		6 1/2 - 8		28.7				
5		9 - 10 1/2		28.0				
6		14 - 15 1/2	Orange-brown and gray silty clay (CL) with some dark brown staining and chert fragments	30.0				
7		19 - 20 1/2		28.7				
8		24 - 25 1/2	Yellow-brown, brown and red-brown silty clay (CL) with some dark brown staining, limestone fragments in 29 to 30.1 foot sample	31.3				
9		29 - 30.1		35.4				

Spoons/Tubes Data

Sample No.	Station No.	Depth (feet)	Description	In-Situ Moisture (%)	LL	PI	AASHTO Class	USCS Class
			Valley View Highway					
2	VV 2+00L	1 1/2 - 3	Brown sandy clayey silt (ML) with some roots and pebbles	20.6				
3		4 - 5 1/2		20.8				
4		6 1/2 - 8		18.2	31	17	A-6	CL
5		9 - 10 1/2	Brown and red-brown sandy clay (CL) with some pebbles	15.7				
6		14 - 15 1/2	Red-brown sandy clay (CL) with rounded pebbles and sandstone fragments	15.8				
7		19 - 20 1/2	Brown, yellow-brown, red-brown and dark brown silty clay (CL)	39.7				
UD Tube	VV 2+00LA	8 - 10	Brown and red-brown sandy clay (CL) with some pebbles	10.8				
2	VV 4+50L	1 1/2 - 3	Dark brown sandy clay (CL) with cinders (subsoil)	22.7				
3		4 - 5 1/2	Brown, red-brown and yellow-brown sandy clayey silt (ML)	18.5				
4		6 1/2 - 8		15.4	26	12	A-6	CL
5		9 - 10 1/2		18.0				
			State Route 28					
1	518+00L	0 - 1 1/2	Topsoil (0.2'), orange-brown and yellow-brown silty clay (CL) with chert fragments and chert sand	11.7				
2		1 1/2 - 3		24.1				
3		4 - 5 1/2		18.6				
4		6 1/2 - 8	Orange-brown, red-brown and gray silty clay (CL) with chert fragments and some fine sand	21.1				
5		9 - 10 1/2		20.1				
6		14 - 15 1/2	Tan, gray and orange-brown silty clay (CL) with rounded pebbles and chert fragments	19.5				
7		19 - 20 1/2	Yellow-brown and brown sandy silty clay (CH) with rock fragments	30.8	85	56	A-7-6	CH
1	524+50L	0 - 1 1/2	Topsoil (0.2'), red-brown, brown and yellow-brown sandy clay (CL) with chert fragments	16.1				
2		1 1/2 - 3	Yellow-brown and red-brown silty clay (CL) with black staining and occasional chert fragments	18.7				
3		4 - 5 1/2	Red-brown, gray and yellow-brown silty clay (CL) with occasional chert fragments	25.6				
4		6 1/2 - 8		26.2				
5		9 - 10 1/2		25.0				
6		14 - 15 1/2	Red-brown with some yellow-brown silty clay (CL) with occasional chert fragments	30.2				

Bulk Sample Data

Sample No.	Description	In Situ Moisture (%)	Maximum Dry Density (pcf)	Optimum Moisture Content (%)	Moisture Range	PL	LL	AASHTO Class	USCS Class
13+50L, 1'-7.4'	Brown sandy clay-sandy silt (CL-ML) with some sandstone fragments		124.3	9.9	11.4-14	14	19	A-2-4	CL-ML
66+00, 1'-10'	Yellow-brown, orange-brown, brown, tan and gray clayey silt (ML) with some dark brown staining, fine sand and chert fragments	22.8	107.8	18.7	22.2-23.1	39	26	A-6	ML

CBR Data

CBR No.	Description	In Situ Moisture (%)	Maximum Dry Density (pcf)	Optimum Moisture Content (%)	Moisture Range	PL	LL	AASHTO Class	USCS Class	CBR
13+50L, 1'-7.4'	Brown sandy clay-sandy silt (CL-ML) with some sandstone fragments		124.3	9.9	11.4-14	14	19	A-2-4	CL-ML	8.6
66+00, 1'-10'	Yellow-brown, orange-brown, brown, tan and gray clayey silt (ML) with some dark brown staining, fine sand and chert fragments	22.8	107.8	18.7	22.2-23.1	39	26	A-6	ML	15.9

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

SOIL DESCRIPTIONS
S.R. 150
MARION COUNTY

$$$$SYTIME$$$$$
$$$$DGNSPEC$$$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28K

Site Preparation

1. Demolition or removal of a small building south of the centerline around State Route 150 Station 15+60 will be required. The building's grade slab and shallow foundations shall be removed.
2. If present, an existing septic tank shall be excavated with 4H:1V side slopes and the excavation backfilled with properly compacted fill.
3. Abandoned utility lines shall be removed and replace with compacted fill.
4. Subsoil and soft and firm consistency soils that will require undercutting and replacement with compacted soil fill or stabilization with graded solid rock were encountered in several of the borings. The locations and approximate depths of required undercutting are summarized in Table 1. Typical cross sections for these areas are provided on the Typical Sections sheets. Upon the completion of undercutting, the undercut excavations shall be backfilled with compacted soil fill as described in Note 8, or with graded solid rock as indicated in Table 1. Graded solid rock shall be overlain and underlain with Type IV geotextile (TDOT Item No. 740-10.04). The graded solid rock shall consist of sound, non-degradable rock with a maximum size of 3 feet. At least 50 percent of the rock shall be uniformly distributed between 1 foot and 3 feet in diameter and no greater than 10 percent shall be less than 2 inches in diameter. The material shall be roughly equi-dimensional in shape. Thin, slabby material will note be accepted. The contactor shall be required to process the material with an acceptable mechanical screening process that produces the required gradation. When the material is subjected to five alterations of the sodium sulfate soundness test (AASHTO T 104), the weighted percentage of loss shall be not more than 12. The material shall be approved by the engineer before use.
5. In some areas where soft to firm consistency soils were encountered as well as in wetland areas, the planned fill depth is 5 feet or greater, and undercutting will not be required. In these areas, 5 feet of graded solid rock overlain and underlain by Type IV geotextile (TDOT Item No. 740-10.04) shall be placed to stabilize the subgrade and facilitate drainage in wetland areas without undercutting. Areas where graded solid rock and Type IV geotextile shall be placed without undercutting are summarized in Table 2. A typical cross section for these areas is provided on the Typical Section sheets.
6. In areas less than 5 feet below subgrade where soil fill will be placed, proofrolling of the exposed surface of the subgrade soils shall be performed after completion of stripping in areas to receive fill and once grade is achieved in cut areas. Proofrolling shall be performed using a fully loaded dump truck or other heavy equipment approved by the construction engineer. The proofrolling operation shall traffic the construction area with parallel passes of the vehicle starting at one side of the area and continuing to the other. Each pass shall overlap the preceding pass to ensure complete coverage. The construction engineer shall be present to observe the proofrolling operations and to provide recommendations should unstable soils be encountered.
7. In accordance with Section 205.03 of TDOT's 2015 Standard Specifications, in areas where fills of less than 3 feet below subgrade are made, the cleared ground surface shall be completely broken up by plowing, scarifying or stripping to a minimum depth of 6 inches and re-compacted as described in the Standard Specifications.

Compacted Fill

8. Fill soils shall consist of low to moderately plastic clay or silt with a plasticity index of less than thirty five (PI<35) and a standard Proctor maximum dry density greater than 95 pounds per cubic foot. The fill shall contain no rock fragments larger than 4 inches in any dimension, and no organic matter.

Groundwater

9. During periods of heavy rain, perched groundwater conditions may occur at this site. If groundwater is encountered, the contractor shall provide adequate dewatering to maintain the groundwater level below the bottom of excavations, except when the excavation is in rock. Pumping from sumps constructed outside the excavation should be effective in dewatering the soils encountered in the test borings. Water from the pumps shall be discharged beyond the construction boundaries to limit its affect on construction activities.

Slopes

10. Cut and compacted fill slopes shall have a maximum slope inclination of 2 horizontal to 1 vertical (2H:1V).
11. Roadway fill slope inclinations of 1.7H:1V and 1.8H:1V are planned for State Route 150 Station 40+00 to 41+00. The embankment in these areas shall be constructed using graded solid rock overlain and underlain by Type IV geotextile. The graded solid rock finished slope ratio shall not exceed 1.5H:1V.
12. As specified in Section 205.03, paragraph 7 of TDOT's 2015 Standard Specifications, benches shall be cut into the side of existing slopes inclined at 4H:1V or steeper where fills are to be constructed. A cross section depicting a typical benching detail is provided on the Typical Section sheets. Areas shown on the roadway cross section drawings where pre-benching is expected are as follows:
    - State Route 150 Station 10+50, left
    - State Route 150 Station 11+00, right
    - State Route 150 Station 13+50, right
    - State Route 150 Station 22+00 to 24+50 (box culvert at Station 22+99.05)
13. Vegetation shall be established as quickly as possible on slopes to prevent erosion. Erosion control measures shall be constructed in accordance with TDOT guidelines.
14. Should shallow slides or slumps occur, they shall be repaired promptly to prevent further slope erosion. Repair can typically be accomplished by removing the slide material, excavating a bench within the failure zone, and backfilling the failure with Class A-3 machined rip-rap.

Table 1. Locations and Approximate Elevations of Soft to Firm Consistency Soils Requiring Undercutting

Estimated Station Range of Undercut	Approximate Depth of Undercut (ft)	Soil or Graded Solid Rock Backfill	Comments
Southbound ramp onto Betsy Pack Drive	5	Graded solid rock	Undercut as needed to fit 5 feet of GSR below pavement
Eastbound ramp onto State Route 150 Extension	5	Graded solid rock	Undercut as needed to fit 5 feet of GSR below pavement
17+56 to 18+00	5	Graded solid rock	
18+00 to 18+50	1	Graded solid rock	Undercut as needed to fit 5 feet of GSR below pavement
24+75 to 27+25	1.5	Soil	
29+75 to 34+75	1.5	Soil	
54+00 to 54+50	1	Graded solid rock	Undercut as needed to fit 5 feet of GSR below pavement
55+00 to 55+50	1.5	Graded solid rock	Undercut as needed to fit 5 feet of GSR below pavement
64+85 to 69+75	3.5 to 5	Graded solid rock	Undercut as needed to fit 5 feet of GSR below pavement
69+75 to 71+70	1.5	Soil	
71+70 to 73+35	3 to 4.5	Graded solid rock	Undercut as needed to fit 5 feet of GSR below pavement
Valley View Hwy 1+00 to 8+75	5	Graded solid rock	Undercut as needed to fit 5 feet of GSR below pavement

Table 2. Locations Where Five Feet of Graded Solid Rock and Type IV Geotextile Can Be Placed Without Undercutting

Estimated Station Range
18+50 to 24+75
27+25 to 29+75
34+75 to 51+50
54+50 to 55+00
57+25 to 62+35

SEALED BY

JAMIE M. HUDSON — STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 0.99999 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

SPECIAL NOTES
S.R. 150
MARION COUNTY

$$$$SYTIME$$$$$$$$
$$$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28L

SEALED BY

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

SOIL MATERIAL LEGEND

SILTY CLAY, SANDY CLAY, SANDY SILT, CLAYEY SAND, AND SILTY SAND (TYPE A MATERIAL- SEE DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS SHEET)

REPRESENTATIVE OF S.R. 150 STATION 24+75 TO STATION 27+25 AND STATION 29+75 TO STATION 34+75

NOTE:
EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SUBSECTION 205.03, PARAGRAPH 7 (JANUARY 1, 2015).

REPRESENTATIVE OF S.R. 150 STATION 10+50, STATION 11+00, STATION 13+50, AND STATION 22+00 TO STATION 24+50
(NOTE: A BOX CULVERT WILL BE CONSTRUCTED AT STATION 22+99.05)

SOILS
TYPICAL SECTIONS
S.R. 150
MARION COUNTY

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28M

SEALED BY

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

SOIL MATERIAL LEGEND
GRADED SOLID ROCK

REPRESENTATIVE OF S.R. 150 STATION 18+00 TO STATION 18+50, STATION 54+00 TO STATION 54+50, AND STATION 55+00 TO STATION 55+50

REPRESENTATIVE OF S.R. 150 STATION 18+50 TO STATION 24+75, STATION 27+25 TO STATION 29+75, STATION 34+75 TO STATION 40+00, STATION 41+00 TO STATION 51+50, STATION 54+50 TO STATION 55+00, AND STATION 57+25 TO STATION 62+35

NOTE: DUE TO ROADWAY FILL SLOPE INCLINATIONS OF 1.7:1 AND 1.8:1 AT S.R. 150 STATION 40+00 TO 41+00, THE EMBANKMENT IN THESE AREAS SHALL BE CONSTRUCTED USING GRADED SOLID ROCK OVERLAIN AND UNDERLAIN BY TYPE IV GEOTEXTILE. THE GRADED SOLID ROCK FINISHED SLOPE RATIO SHALL NOT EXCEED 1.5:1.

SOILS
TYPICAL SECTIONS
S.R. 150
MARION COUNTY

$$$$DGNSPEC$$$$
$$$$SYTIME$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	28N

SEALED BY

JAMIE M. HUDSON — REGISTERED PROFESSIONAL ENGINEER — STATE OF TENNESSEE

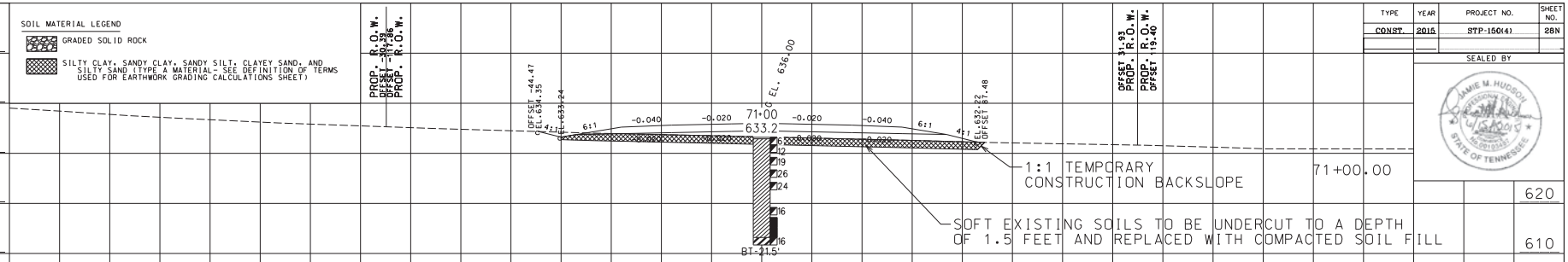
FILE NO. ____

TENNESSEE D.O.T. DESIGN DIVISION

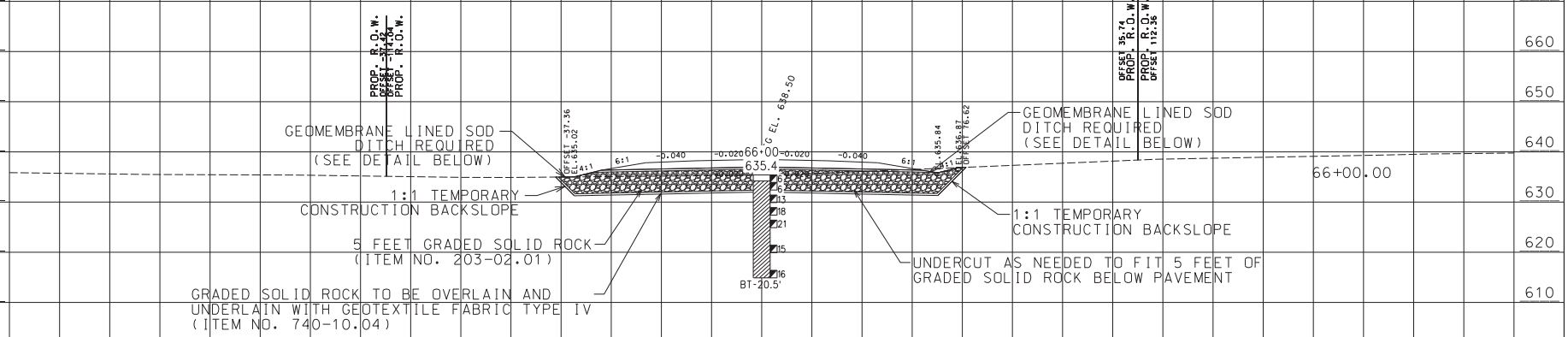
SOIL MATERIAL LEGEND

GRADED SOLID ROCK

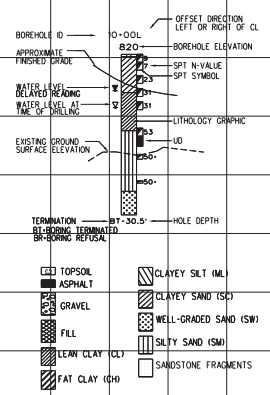
SILTY CLAY, SANDY CLAY, SANDY SILT, CLAYEY SAND, AND SILTY SAND (TYPE A MATERIAL- SEE DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS SHEET)

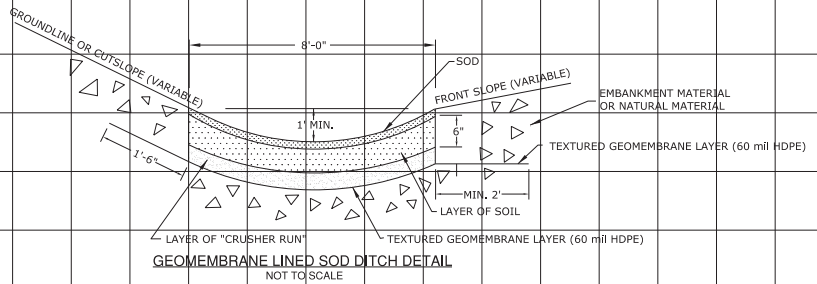


REPRESENTATIVE OF S.R. 150 STATION 69+75 TO STATION 71+70



REPRESENTATIVE OF SOUTHBOUND RAMP ONTO BETSY PACK DRIVE, EASTBOUND RAMP ONTO S.R. 150 EXTENSION, S.R. 150 STATION 17+56 TO STATION 18+00, STATION 64+85 TO STATION 69+75, AND STATION 71+70 TO STATION 73+35





GEOMEMBRANE LINED SOD DITCH DETAIL

NOT TO SCALE

SOILS

TYPICAL SECTIONS
S.R. 150
MARION COUNTY

$$$$SYTIMESSSSSS
$$$$DGNSPECSSSSSS

TYPE | YEAR | PROJECT NO. | SHEET NO.
CONST. | 2015 | STP-150(4) | 28P
SEALED BY
JAMIE M. HUDSON
STATE OF TENNESSEE
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.
SOIL MATERIAL LEGEND
GRADED SOLID ROCK
EXISTING ROAD
GRADED SOLID ROCK TO BE OVERLAIN AND UNDERLAIN WITH GEOTEXTILE FABRIC TYPE IV (ITEM NO. 740-10.04)
GEOMEMBRANE LINED SOD DITCH REQUIRED (SEE DETAIL BELOW)
1:1 TEMPORARY CONSTRUCTION BACKSLOPE
5 FEET GRADED SOLID ROCK (ITEM NO. 203-02.01)
UNDERCUT AS NEEDED TO FIT 5 FEET OF GRADED SOLID ROCK BELOW PAVEMENT
VV2+00L
664.6
BT-20.5'
FG EL. 664.05
3+00.00
CUT 31
FILL 22
REPRESENTATIVE OF VALLEY VIEW HWY STATION 2+50 TO STATION 5+25
FG EL. 667.69
EL.679.83
2+00.00
CUT 149
FILL 20
REPRESENTATIVE OF VALLEY VIEW HWY STATION 1+00 TO STATION 2+00 AND STATION 5+25 TO STATION 8+50
BOREHOLE ID
OFFSET DIRECTION LEFT OR RIGHT OF CL
BOREHOLE ELEVATION
APPROXIMATE FINISHED GRADE
SPT N-VALUE
SPT SYMBOL
WATER LEVEL DELAYED READING
WATER LEVEL AT TIME OF DRILLING
LITHOLOGY GRAPHIC
EXISTING GROUND SURFACE ELEVATION
UD
TERMINATION
BT-BORING TERMINATED
BR-BORING REFUSAL
HOLE DEPTH
TOPSOIL
ASPHALT
GRAVEL
FILL
LEAN CLAY (CL)
FAT CLAY (CH)
CLAYEY SILT (ML)
CLAYEY SAND (SC)
WELL-GRADED SAND (SW)
SILTY SAND (SM)
SANDSTONE FRAGMENTS
GROUNDLINE OR CUTSLOPE (VARIABLE)
8'-0"
SOD
FRONT SLOPE (VARIABLE)
EMBANKMENT MATERIAL OR NATURAL MATERIAL
1' MIN.
6"
TEXTURED GEOMEMBRANE LAYER (60 mil HDPE)
1'-6"
MIN. 2'
LAYER OF SOIL
LAYER OF "CRUSHER RUN"
GEOMEMBRANE LINED SOD DITCH DETAIL
NOT TO SCALE
SOILS
TYPICAL SECTIONS
VALLEY VIEW HIGHWAY
MARION COUNTY

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	280

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

4-203.02

A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, WATER OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, OR BOULDERS OF LESS THAN APPROXIMATELY 0.5 CUBIC YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD VOLUME) OR A COMBINATION OF ANY OF THE CONSTITUENTS. FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY BE CONSIDERED TO BE EXCAVATABLE BY CONVENTIONAL EXCAVATION MACHINERY SUCH AS PANS, TRACK HOES, OR FRONT END EXCAVATORS/LOADERS. THIS MATERIAL WOULD HAVE A SHRINK FACTOR AS GIVEN IN THE SHRINK FACTORS SHOWN IN SECTION 2-145.10 OF THE DESIGN GUIDELINES OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TESTS DIVISION.

4-203.02

B. SOLID ROCK MATERIAL

SOLID ROCK MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES SO FIRMLY BONDED TOGETHER THAT RELATIVELY GREAT EFFORT IS REQUIRED TO SEPARATE THE PARTICLES (I.E. BLASTING OR HEAVY CRUSHING FORCES). FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY HAVE TO BE BLASTED TO SEPARATE INTO PIECES SMALL ENOUGH TO LOAD AND TRANSPORT ON EARTH MOVING TRUCKS AND WHICH WHEN SUBJECTED TO PROPER PRE-SPLIT AND PRODUCTION BLASTING WOULD RESULT IN A UNIFORM STABLE ROCK CUT FACE. NOTE THAT THIS MATERIAL WOULD NOT BY DEFINITION NECESSARILY BE A PROVEN SOURCE OF ANY ROCK TYPE AGGREGATE SUCH AS SOLID ROCK, GRADED SOLID ROCK, RIP RAP, OR OTHER ROCK AGGREGATE CONSTRUCTION PRODUCTS. THIS MATERIAL WOULD HAVE A SIGNIFICANT SWELL FACTOR AS GIVEN IN SWELL FACTORS SHOWN IN SECTION 2-145.10 OF THE DESIGN GUIDELINES OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEERING SECTION OF THE MATERIALS AND TESTS DIVISION.

4-203.02

C. SOFT ROCK OR DEGRADABLE ROCK

THIS MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES THAT ARE SO FIRMLY BONDED SUCH THAT THEY ARE NOT FAIRLY READILY SEPARATED INTO SMALL PIECES YET HAS SUCH RELATIVELY LOW BONDING STRENGTH THAT WOULD ALLOW FOR SEPARATING INTO SMALL PIECES THROUGH MODERATE TO HEAVY CRUSHING FORCES. FOR CONSTRUCTION PURPOSES THIS MATERIAL WOULD HAVE TO BE SUBJECTED TO RIPPING TYPE EQUIPMENT, HOE RAMS, OR RUGGED USE OF A LARGE BULLDOZER IN ORDER TO SEPARATE THE MATERIAL SUCH THAT IT CAN BE READILY LOADED INTO EARTH MOVING TRUCKS. THESE MATERIALS WOULD TYPICALLY BE SHALES, CLAYSTONES, SILTSTONES, WEATHERED SANDSTONES, WEATHERED SCHIST AND WEATHERED GNEISS. THIS MATERIAL WOULD HAVE A RELATIVELY SMALL SHRINK OR SWELL FACTOR DEPENDING ON THE TYPE MATERIAL AND THE DEGREE OF WEATHERING, DISINTEGRATION, OR DEGRADATION.

4-203.02

D. TRANSITIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF SOIL AND ROCK (MATERIALS A, B, AND C AS DEFINED IN SECTION 4-203.02) OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E. SHALE MATERIAL WITH RELATIVELY THIN LAYERS OF SOLID ROCK SUCH AS HARD LIMESTONE) OR ERRATIC LOCALIZED CHANGES OF MATERIAL TYPES BOTH LATERALLY AND WITH DEPTH (SUCH AS A GEOLOGIC FORMATION RESULTING IN PINNACLED ROCK COLUMNS, FLOATING BOULDERS OR LENSES INTERCALATED WITH CLAY SOIL, A COMMON OCCURRENCE IN CERTAIN REGIONS OF TENNESSEE). FOR CONSTRUCTION PURPOSES, THIS MATERIAL MAY HAVE TO BE EXCAVATED USING A COMBINATION OF EXCAVATION METHODS SUCH AS BLASTING OF ROCK PINNACLES, LAYERS OR BOULDERS ALONG WITH A RIPPING OF WEATHERED ROCK AND EXCAVATING OF SOIL WITH TRACK HOES OR LOADERS ALL WITHIN A LOCALIZED AREA. THIS MATERIAL WOULD NOT BE SUITABLE FOR THE USE OF EXCAVATING PAN TYPE EQUIPMENT.

SEALED BY

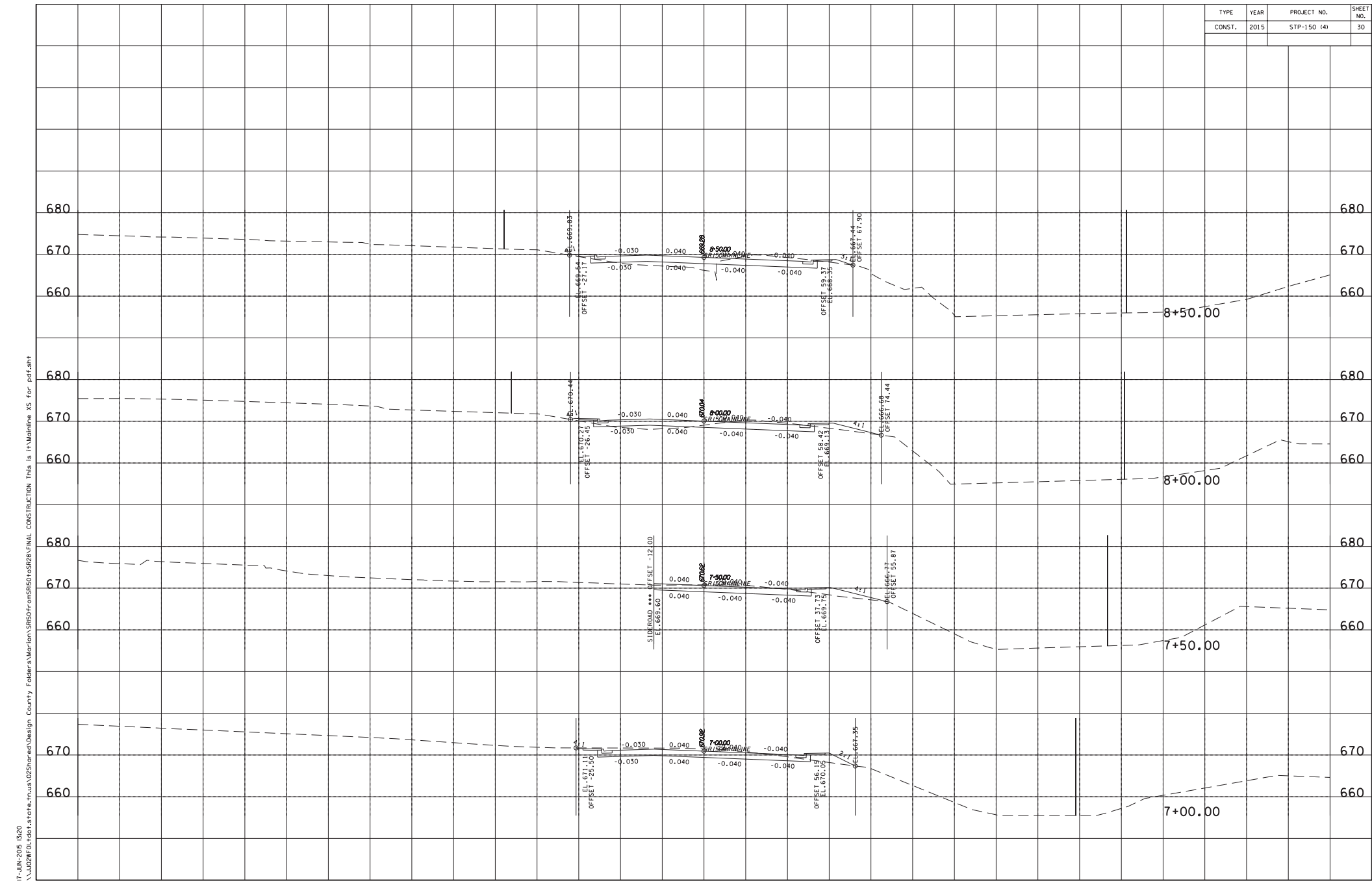
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS

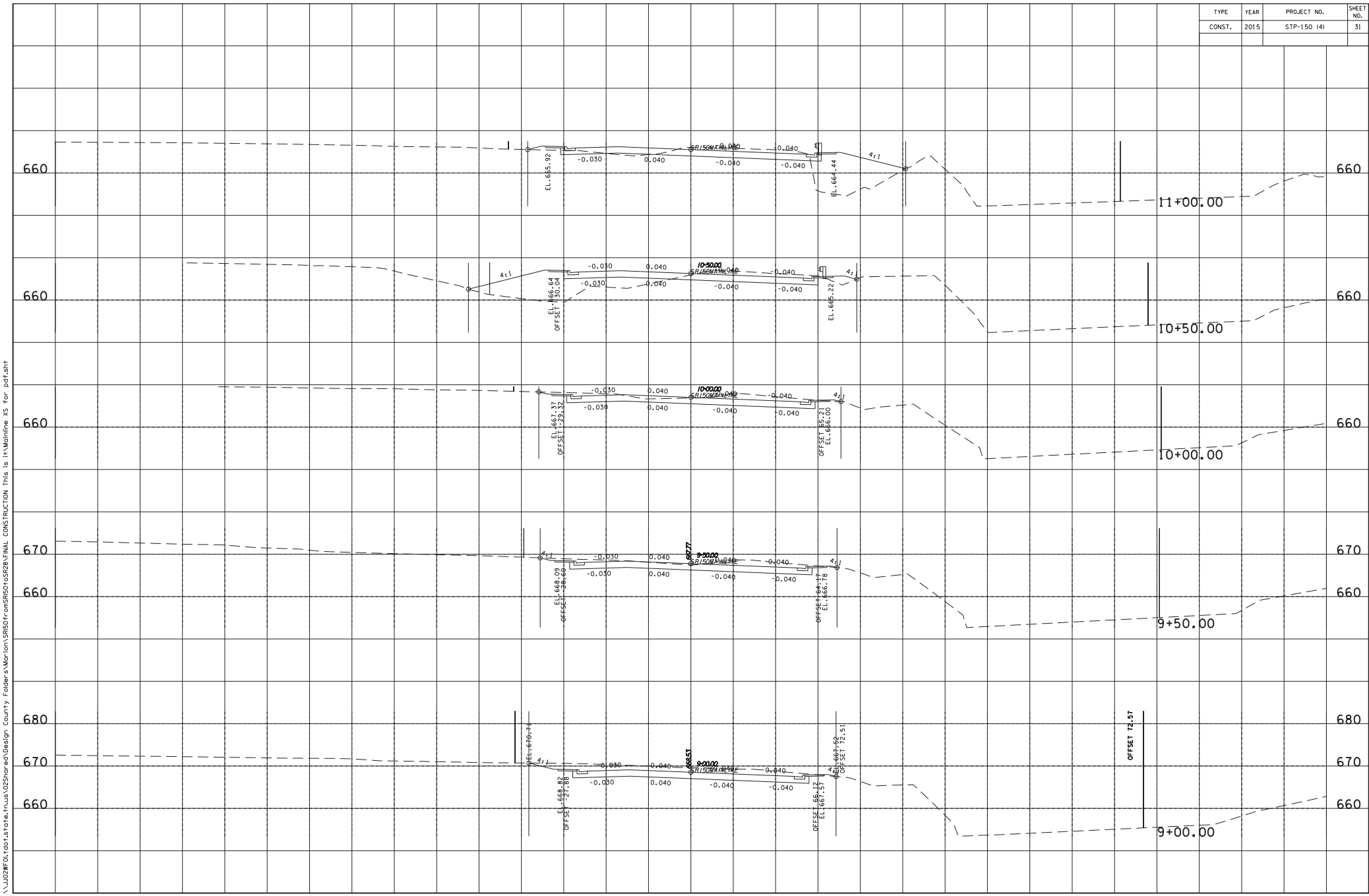
DEFINITION OF TERMS USED FOR EARTHWORK GRADING CALCULATIONS

MARION COUNTY

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

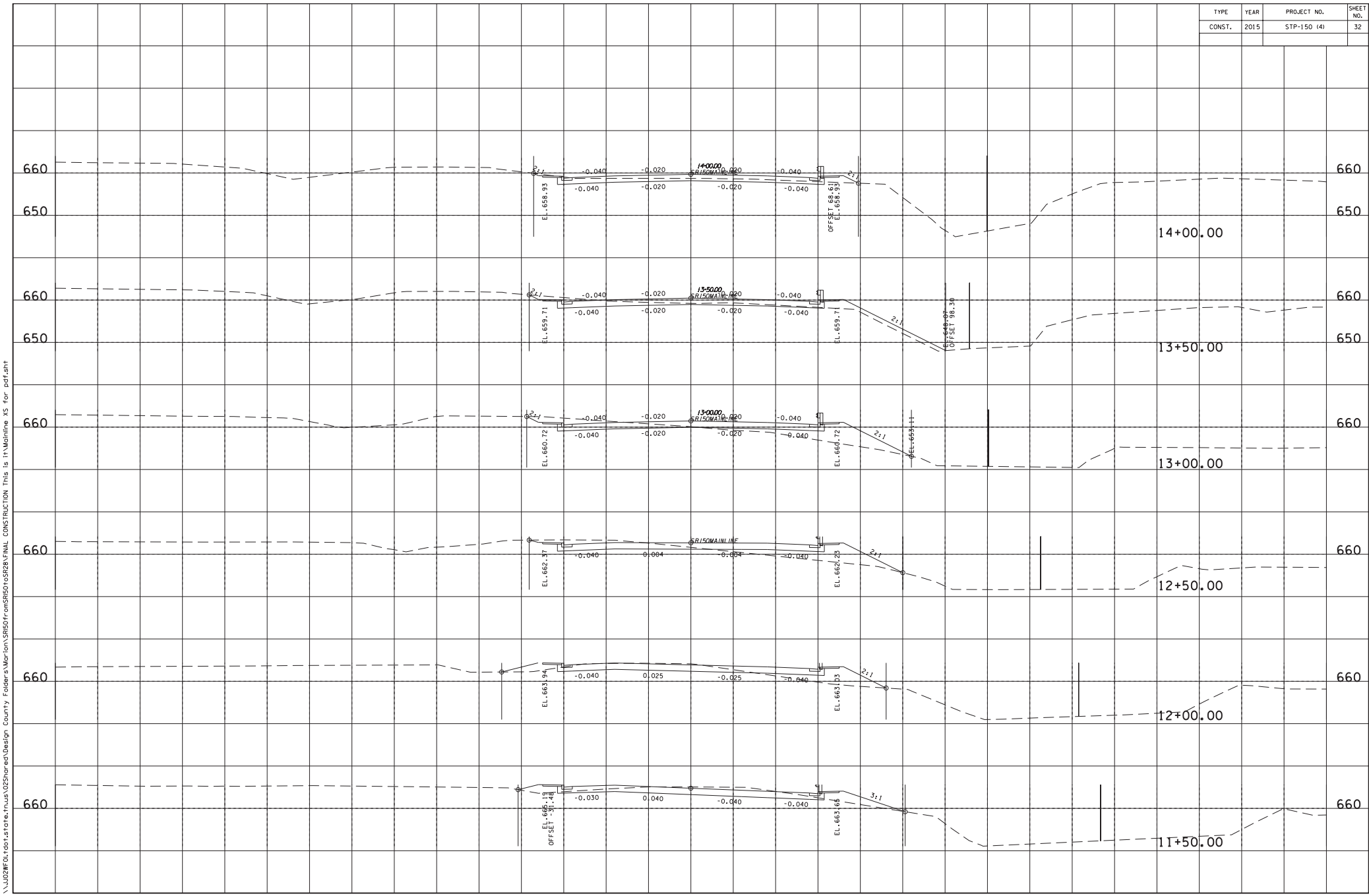

TYPE
YEAR
PROJECT NO.
SHEET NO.
CONST.
2015
STP-150 (4)
30
8+50.00
8+00.00
7+50.00
7+00.00
680
670
660
140
120
100
80
60
40
20
0
20
40
60
80
100
120
140
17-JUN-2015 13:20
\\J02WF01.fdot.state.mn.us\02Shared\Design County Folders\Marion\SP150\FromSP150toSP28\FINAL CONSTRUCTION This is 1+\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	31



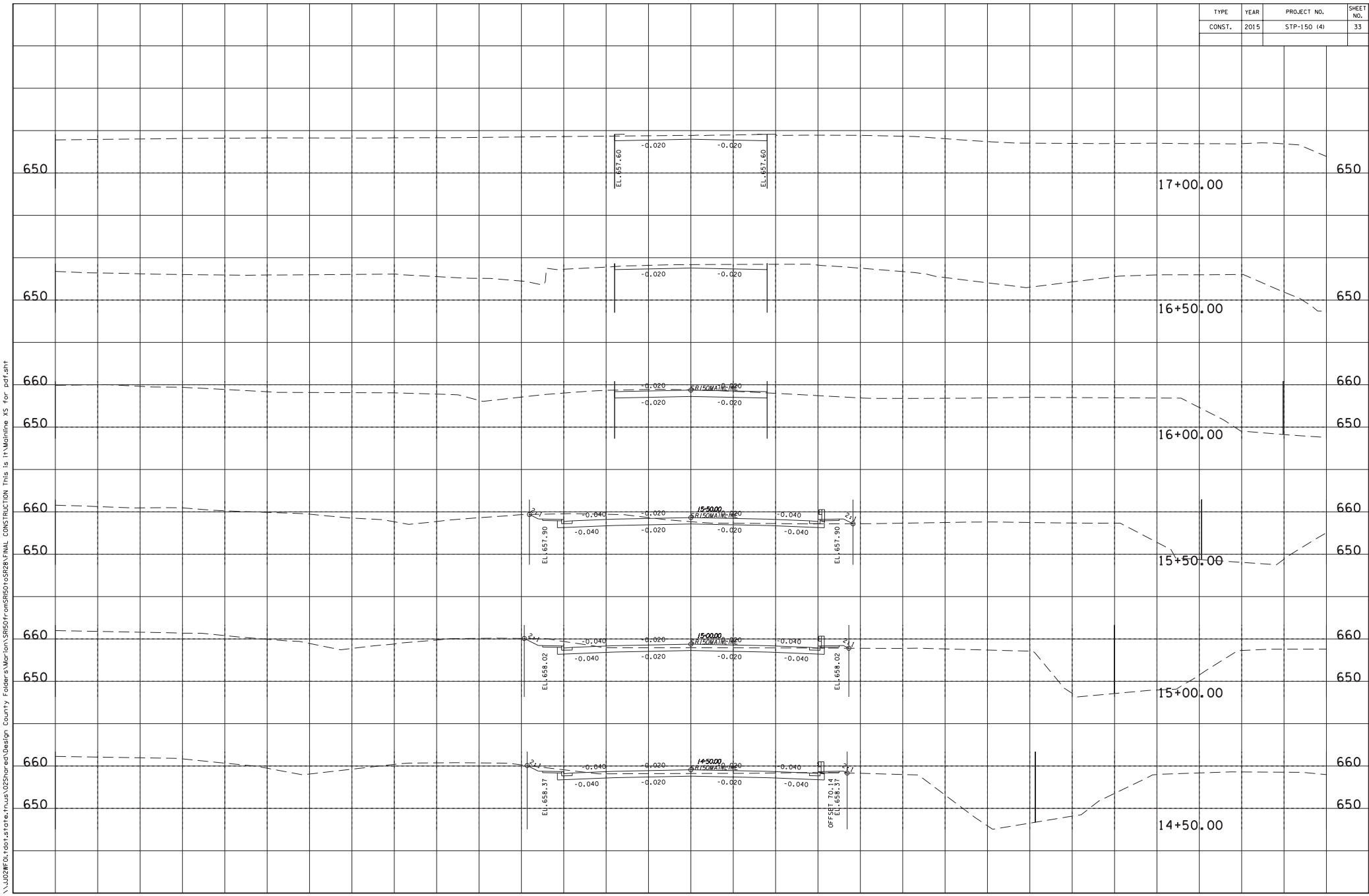
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	32



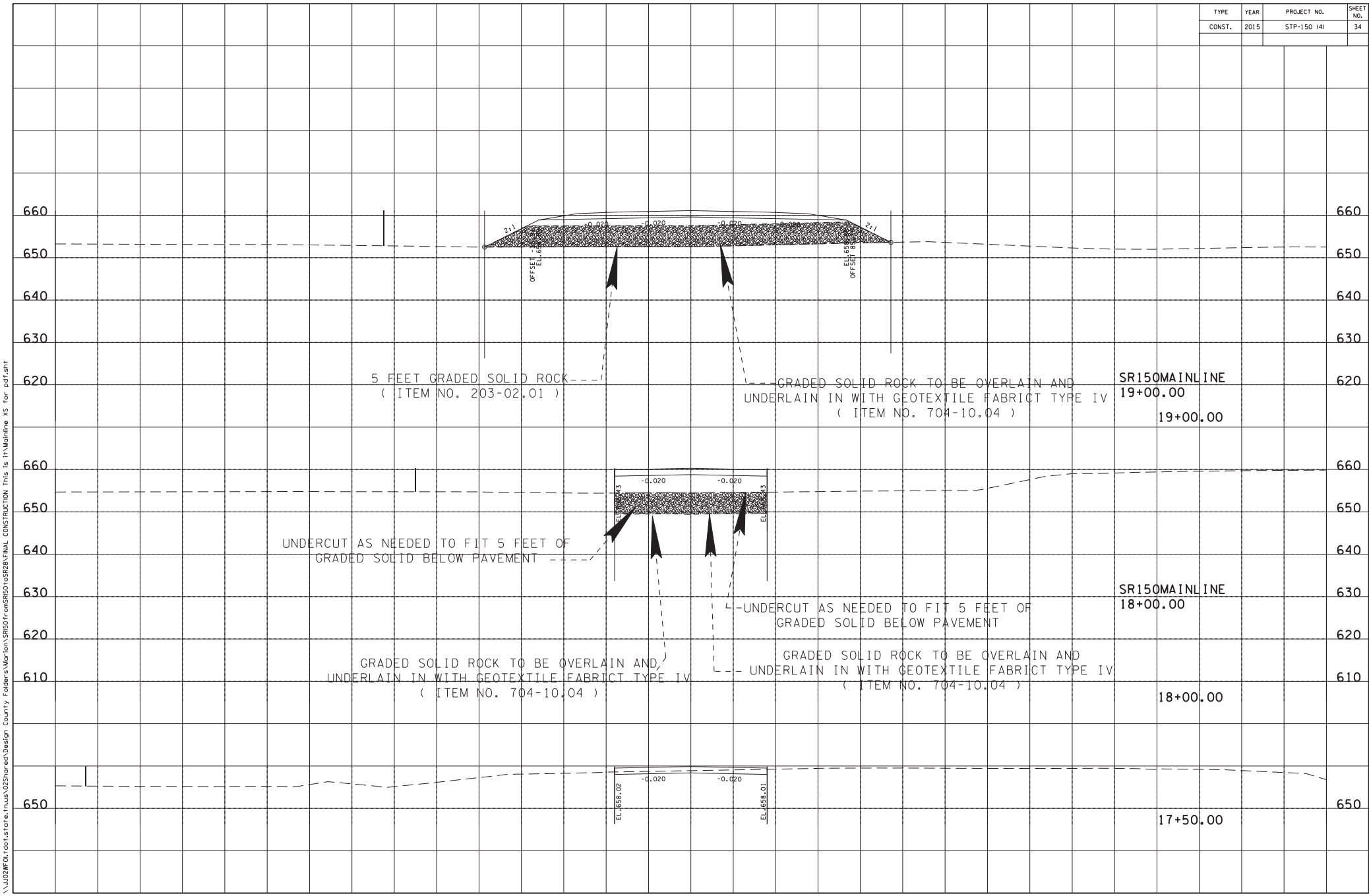
17-JUN-2015 13:20
\\J02WF01.fdot.state.fl.us\02Shared\Design County Folders\Marion\SR50FromSR50toSR28\FINAL CONSTRUCTION This Is 1\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	33



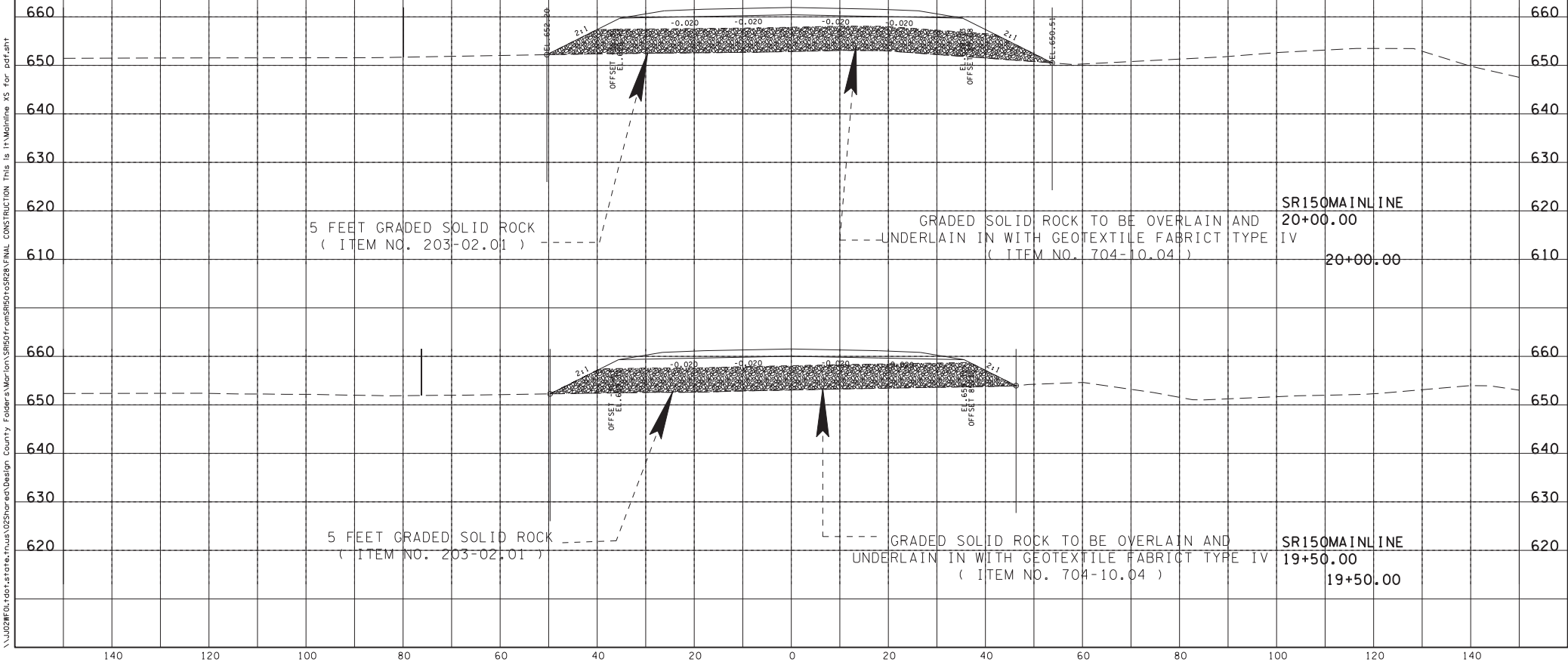
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	34



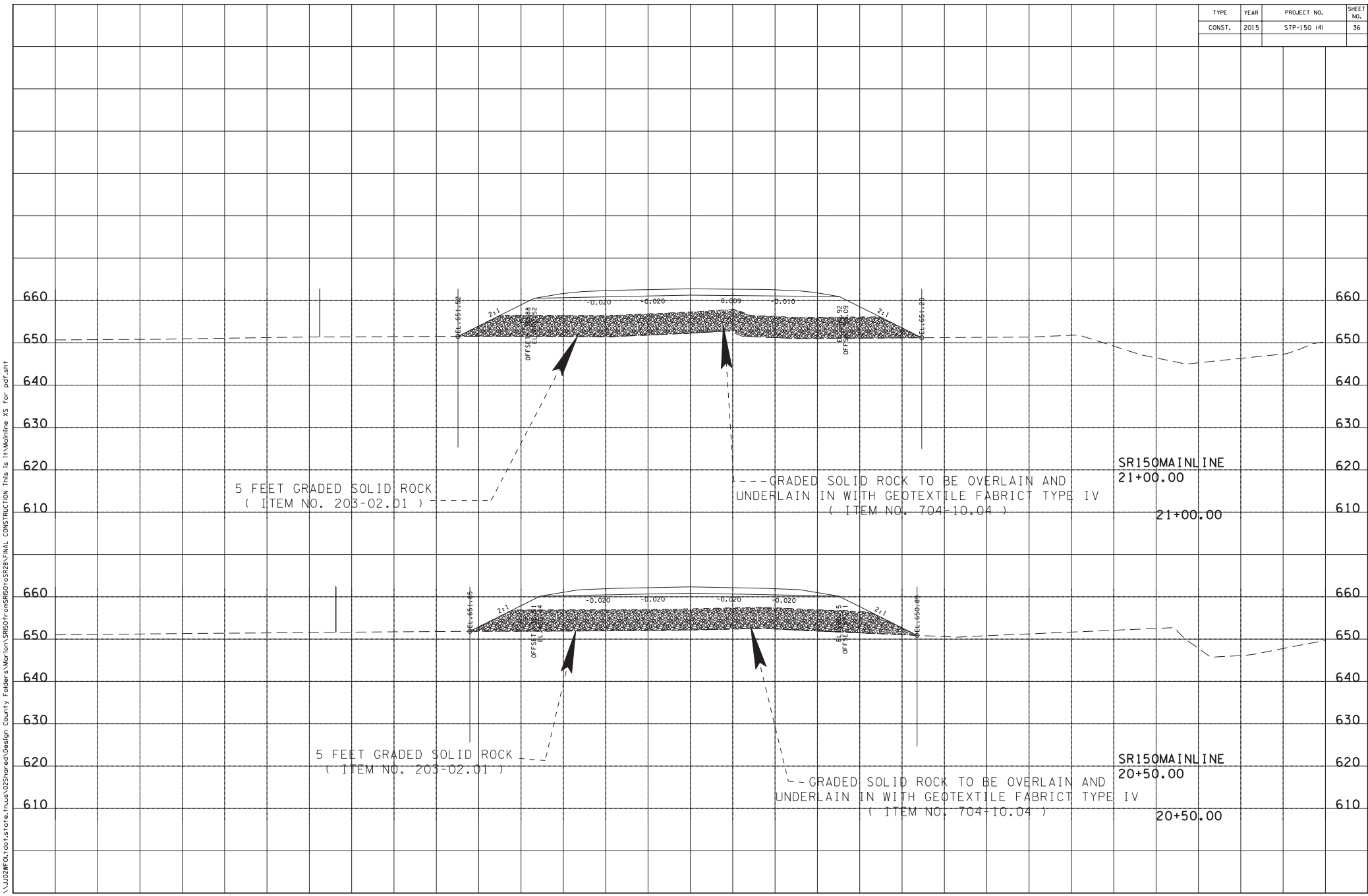
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	35



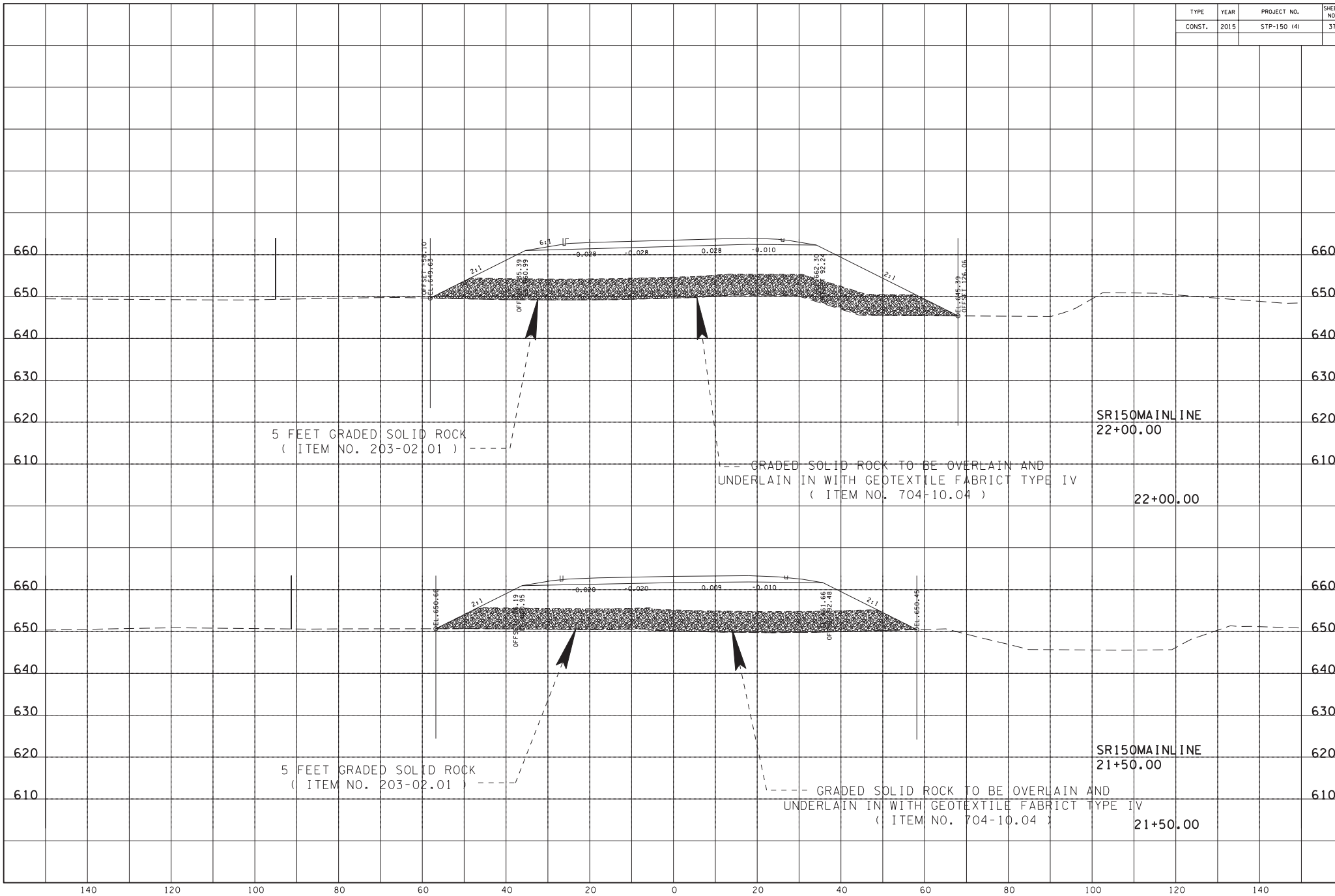
17-JUN-2015 13:20
\\J02WF01.fs01.state.in.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is 1\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	36



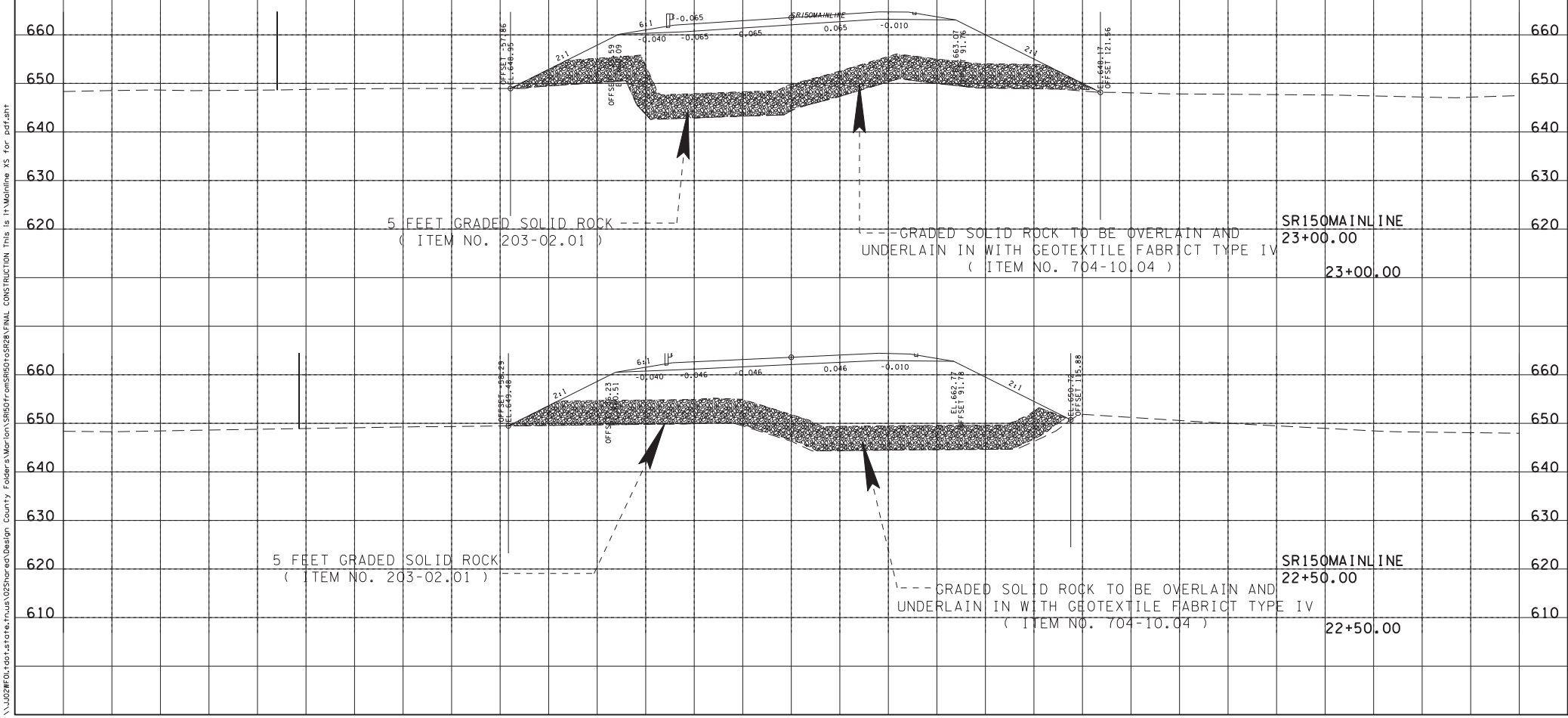
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	37



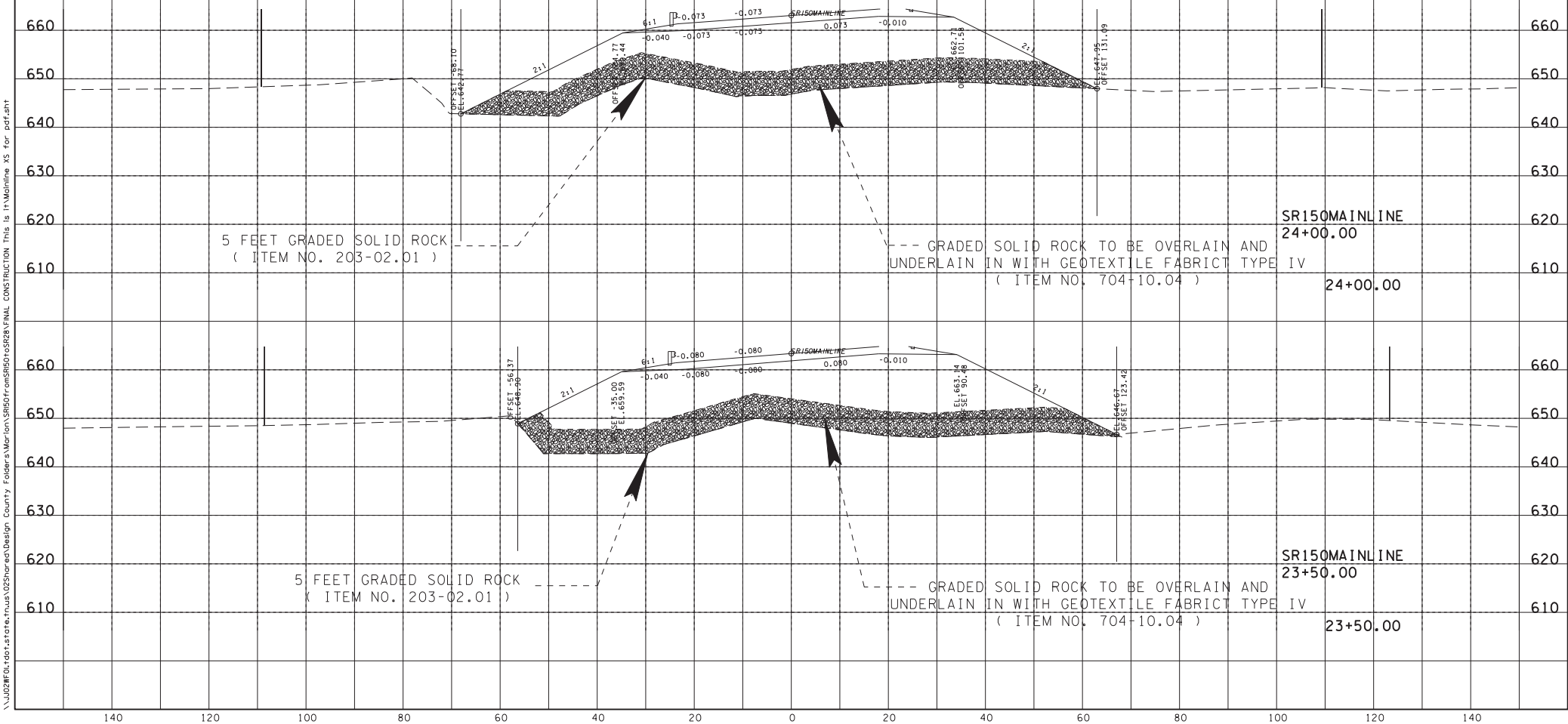
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	38



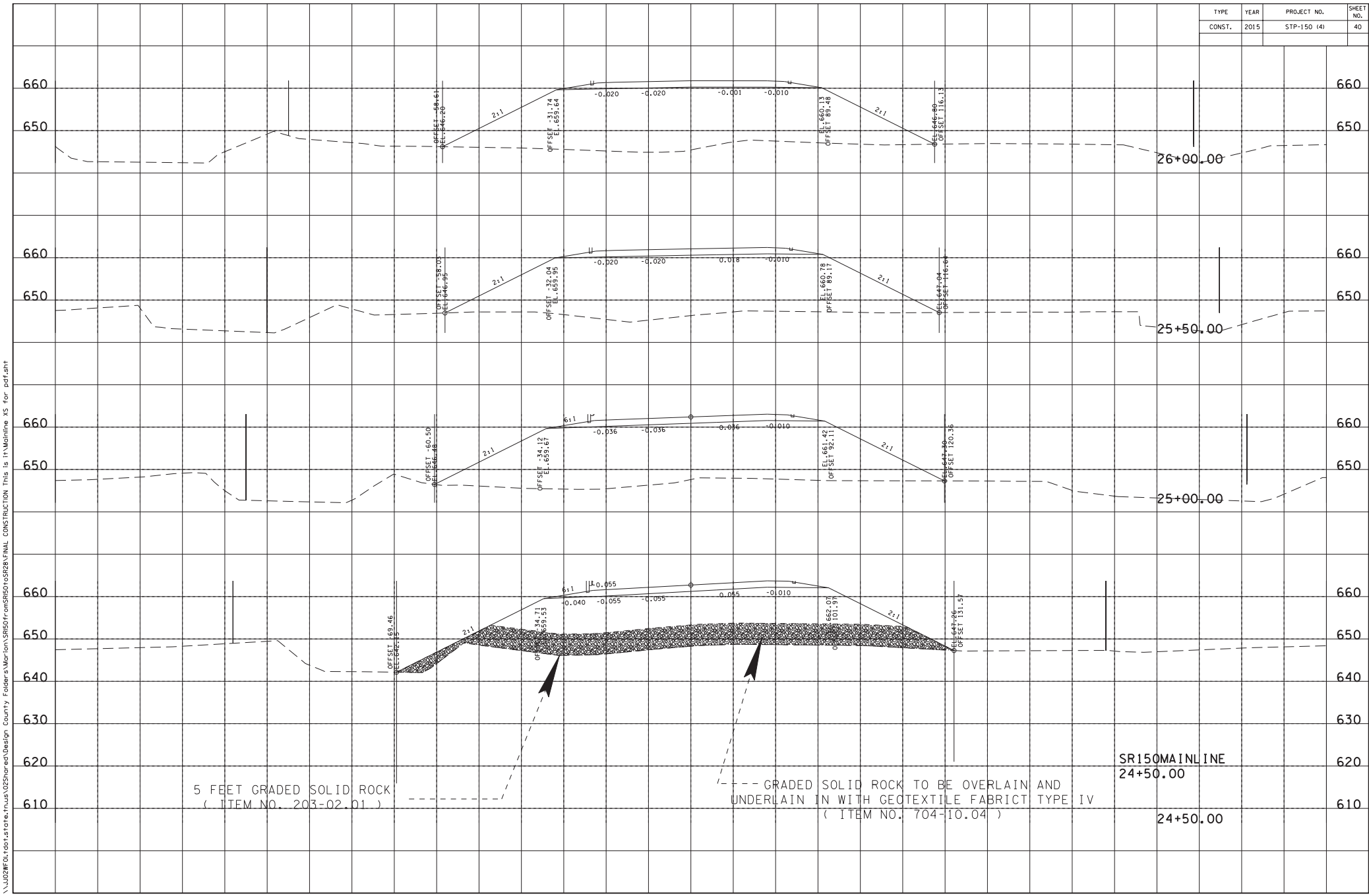
17-JUN-2015 13:20
\\J02WF01.fdot.state.tn.us\02Shared\Design County Folders\Warren\SR50fromSR50toSR28\FINAL CONSTRUCTION This is 1\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	39



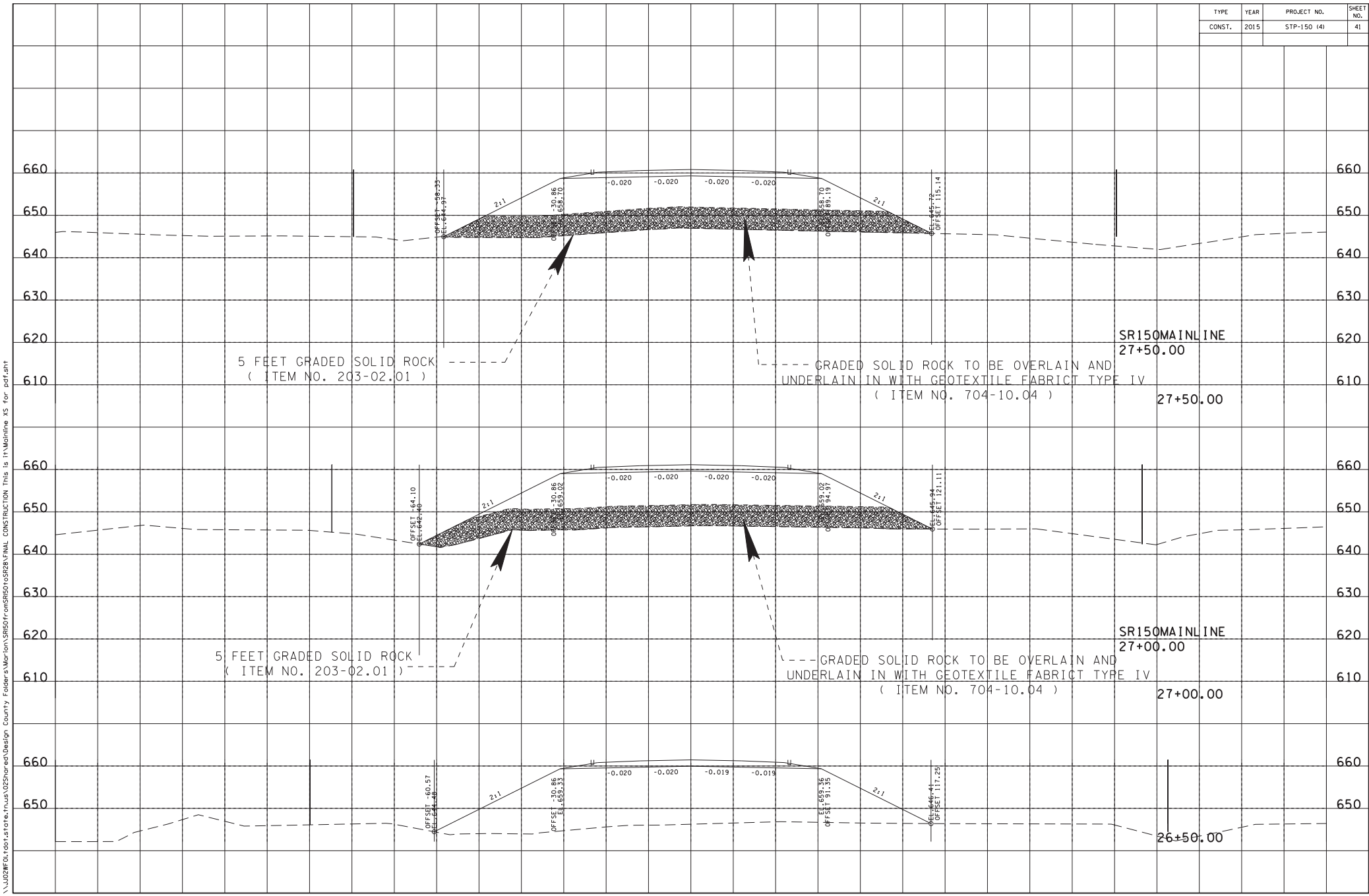
17-JUN-2015 13:20
\\J02WF01.fdot.state.fl.us\J02Shared\Design County Folders\Marion\SR50FromSR50toSR28\FINAL CONSTRUCTION This Is 1\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	40



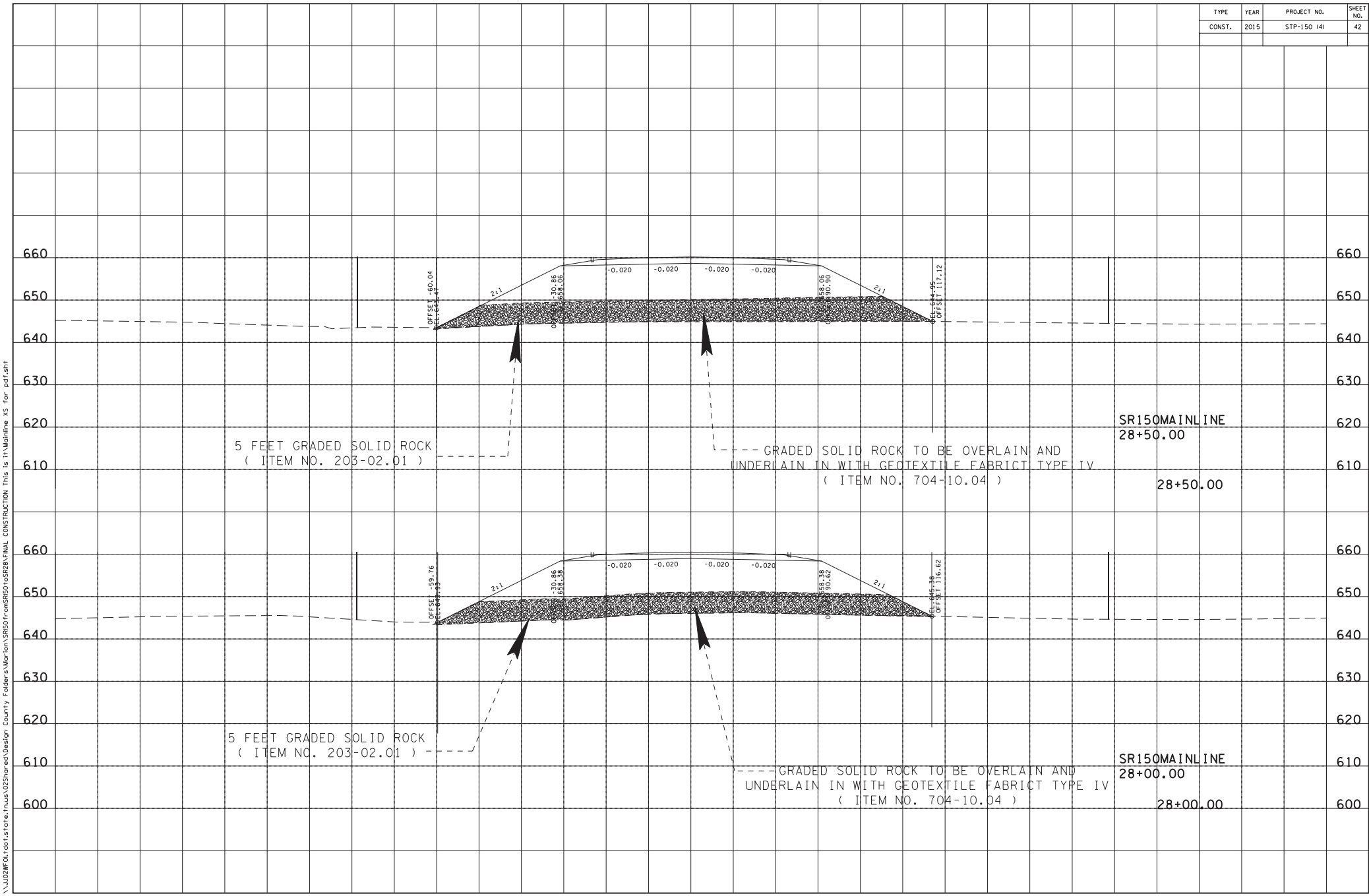
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	41



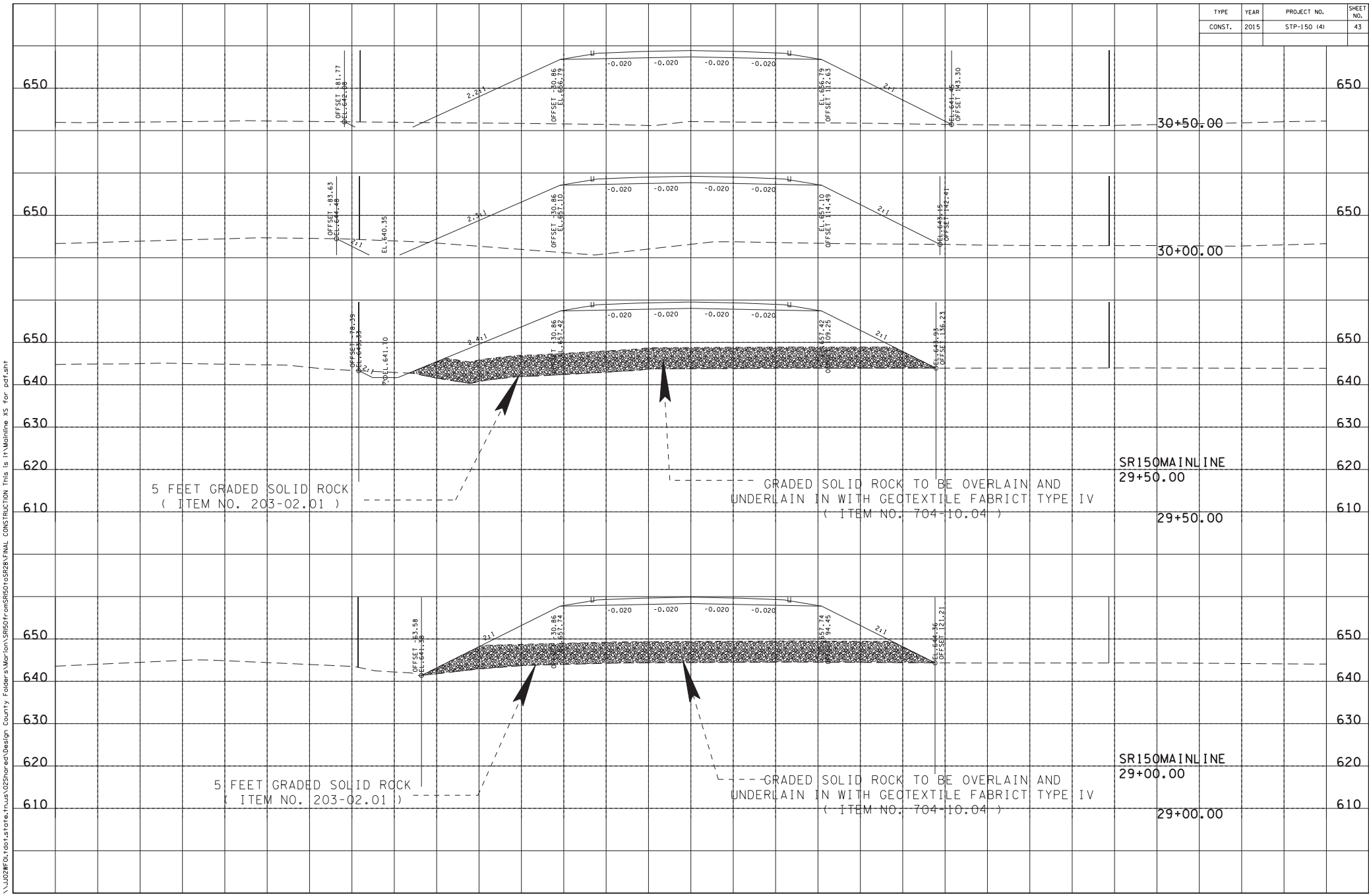
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	42



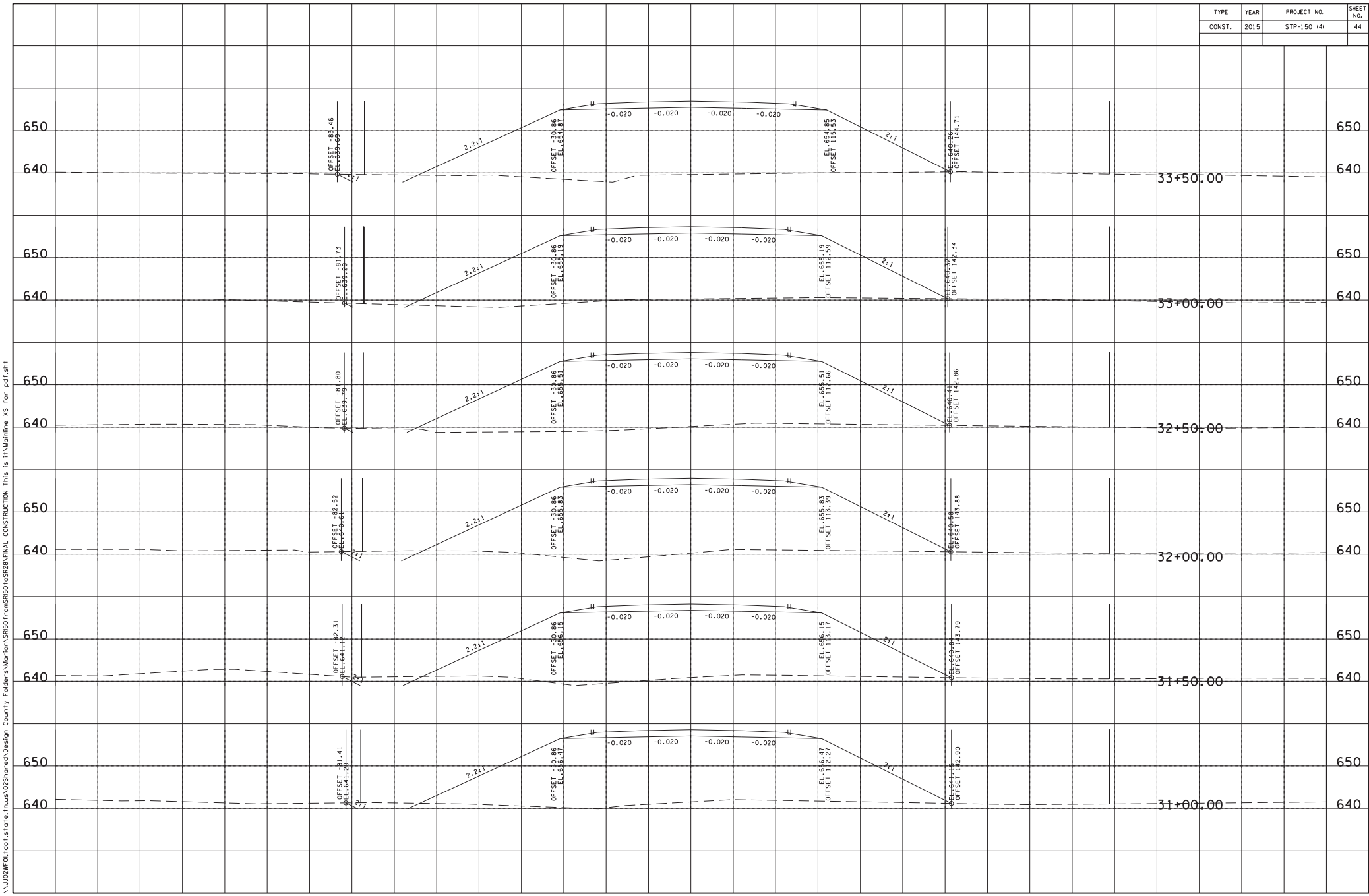
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	43



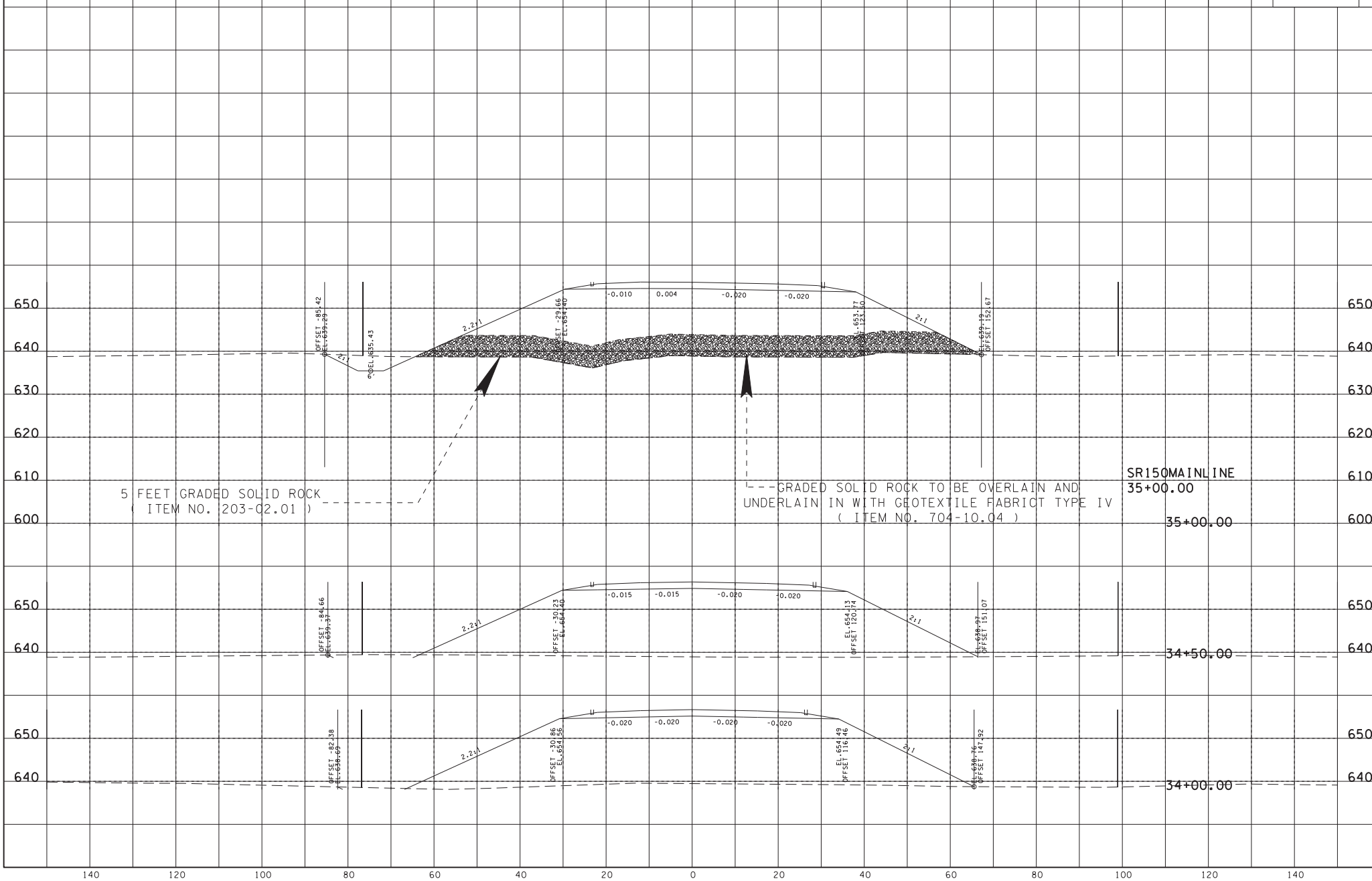
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	44



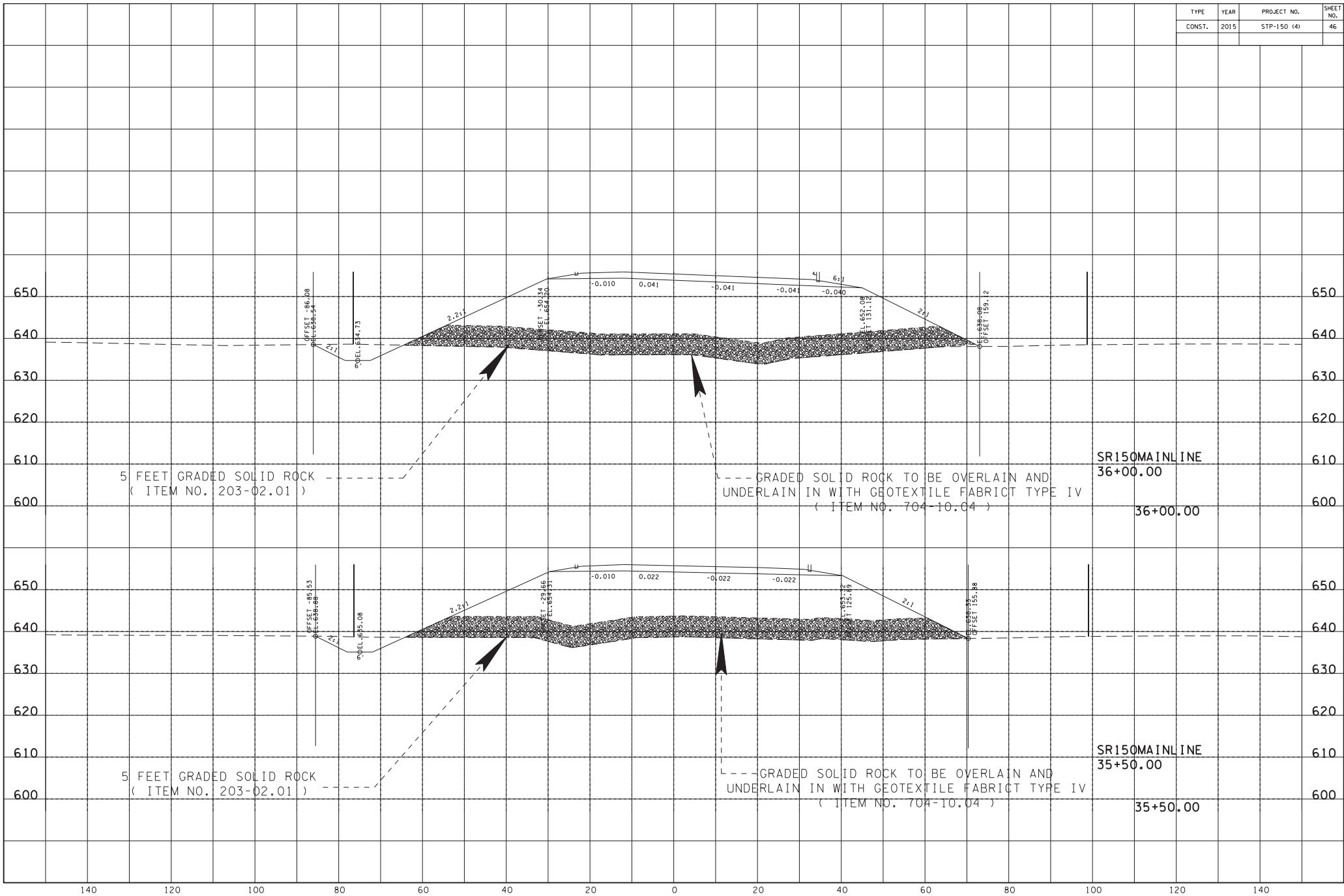
17-JUN-2015 13:20
\\J02WF01.fdot.state.fl.us\02Shared\Design County Folders\Marion\SR50FromSR50toSR28\FINAL CONSTRUCTION This Is 1\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	45



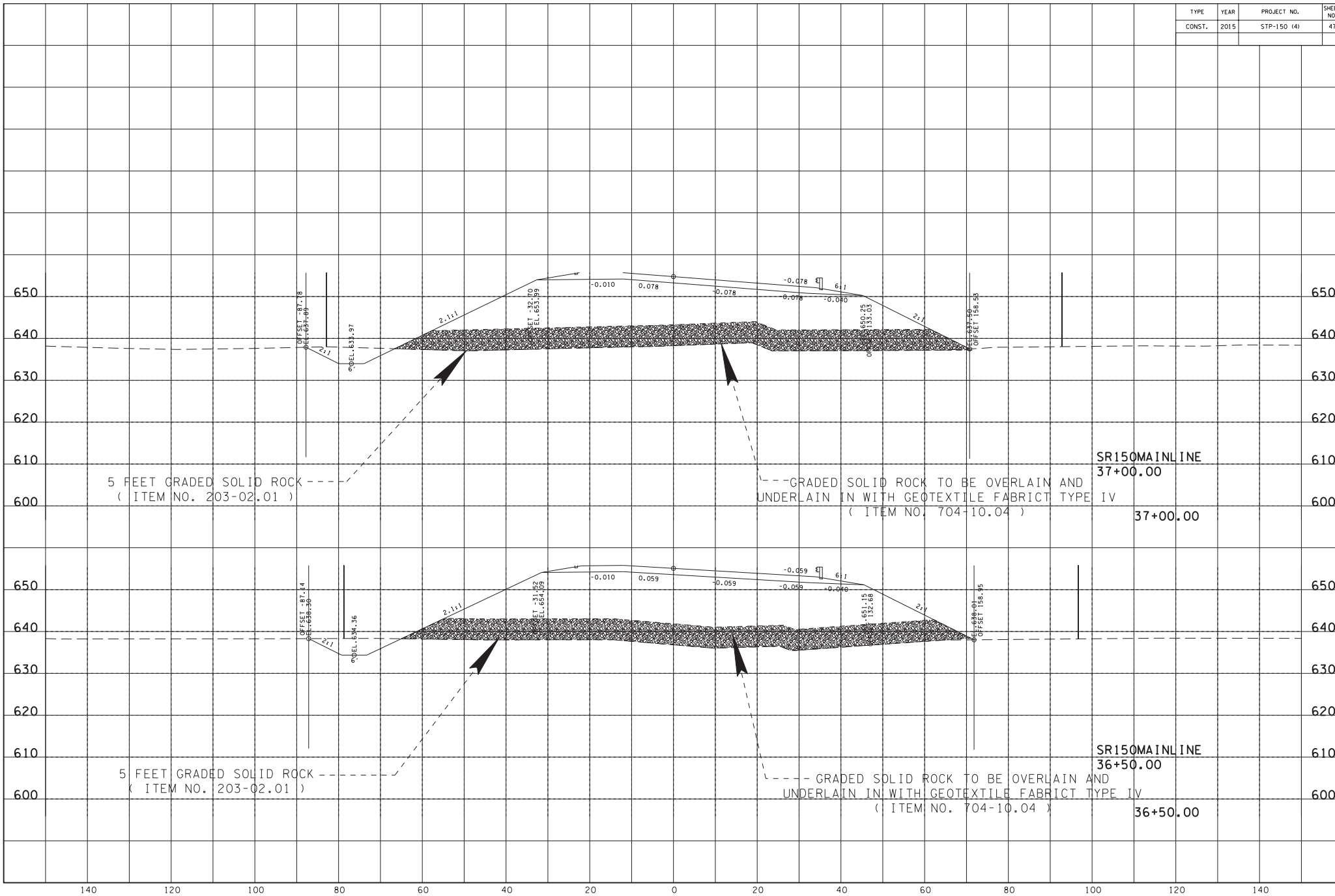
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	46



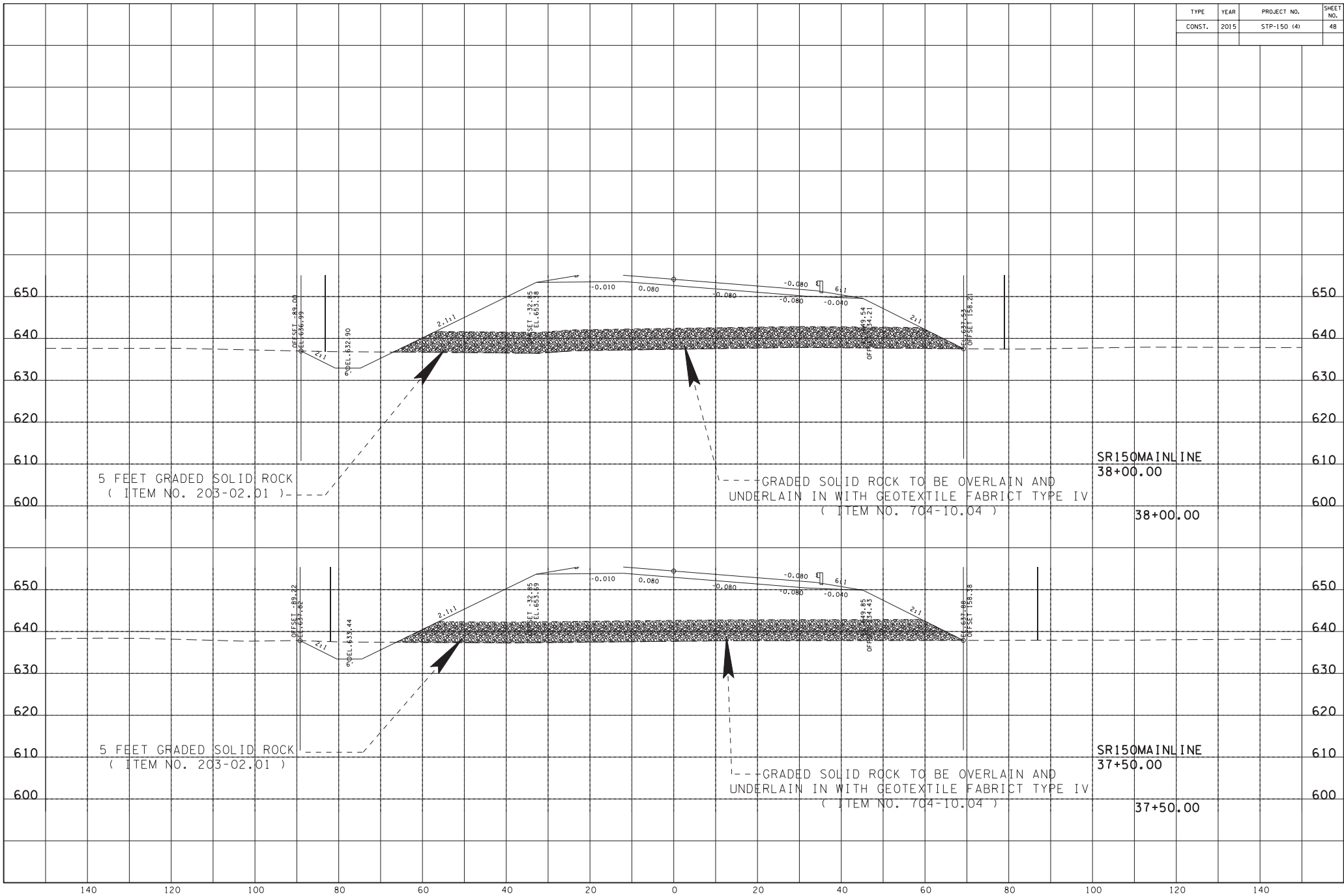
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	47



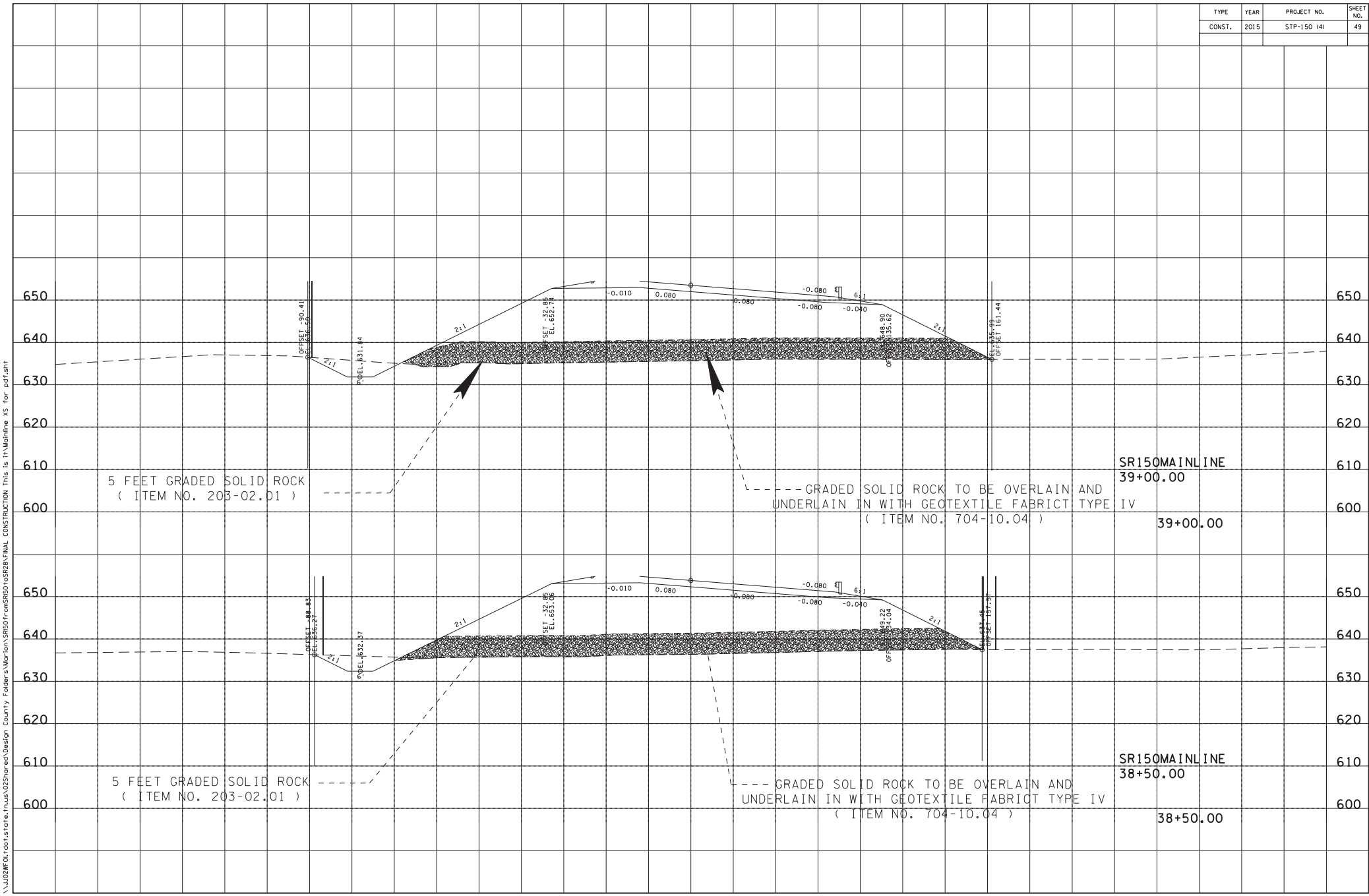
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	48



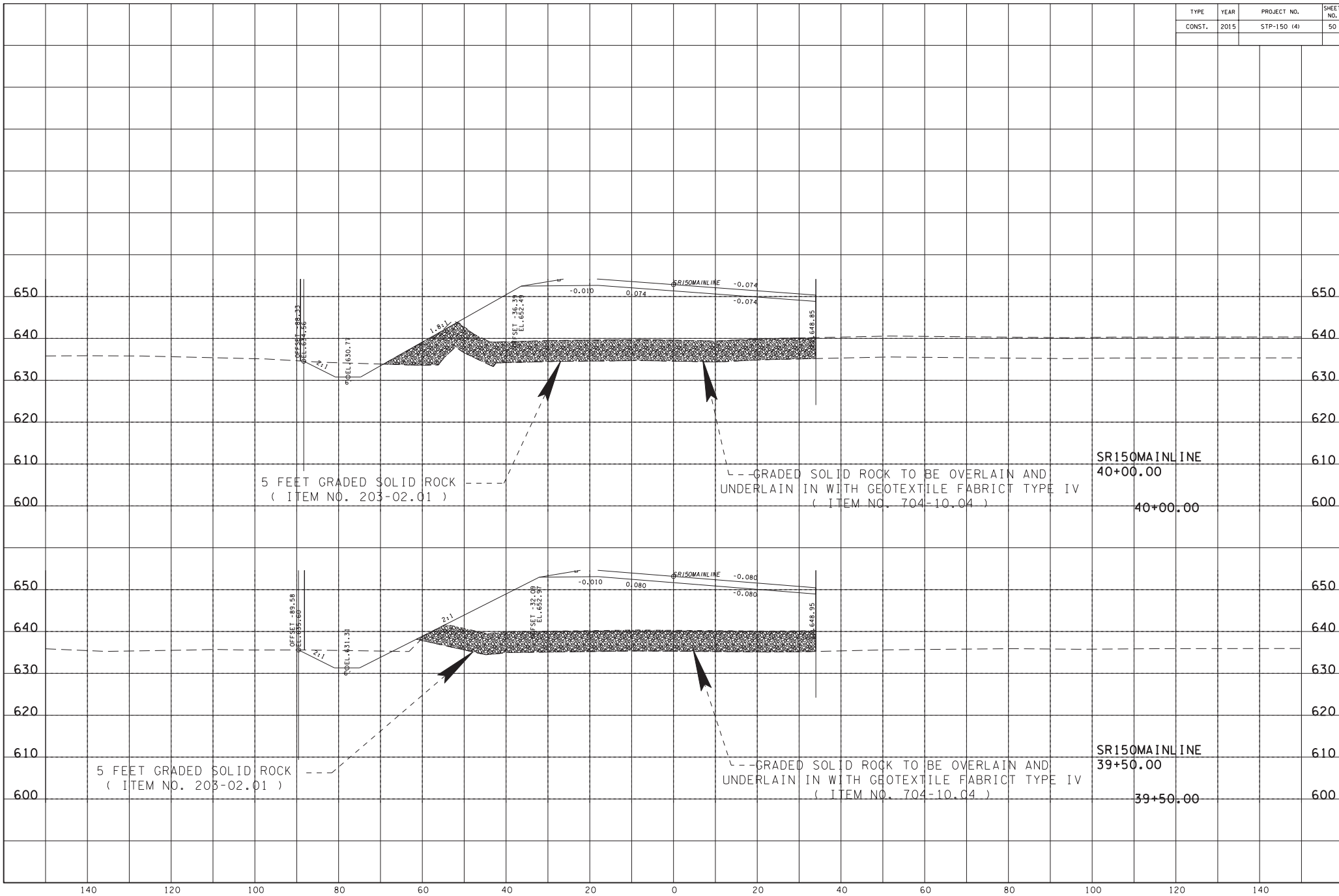
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	49



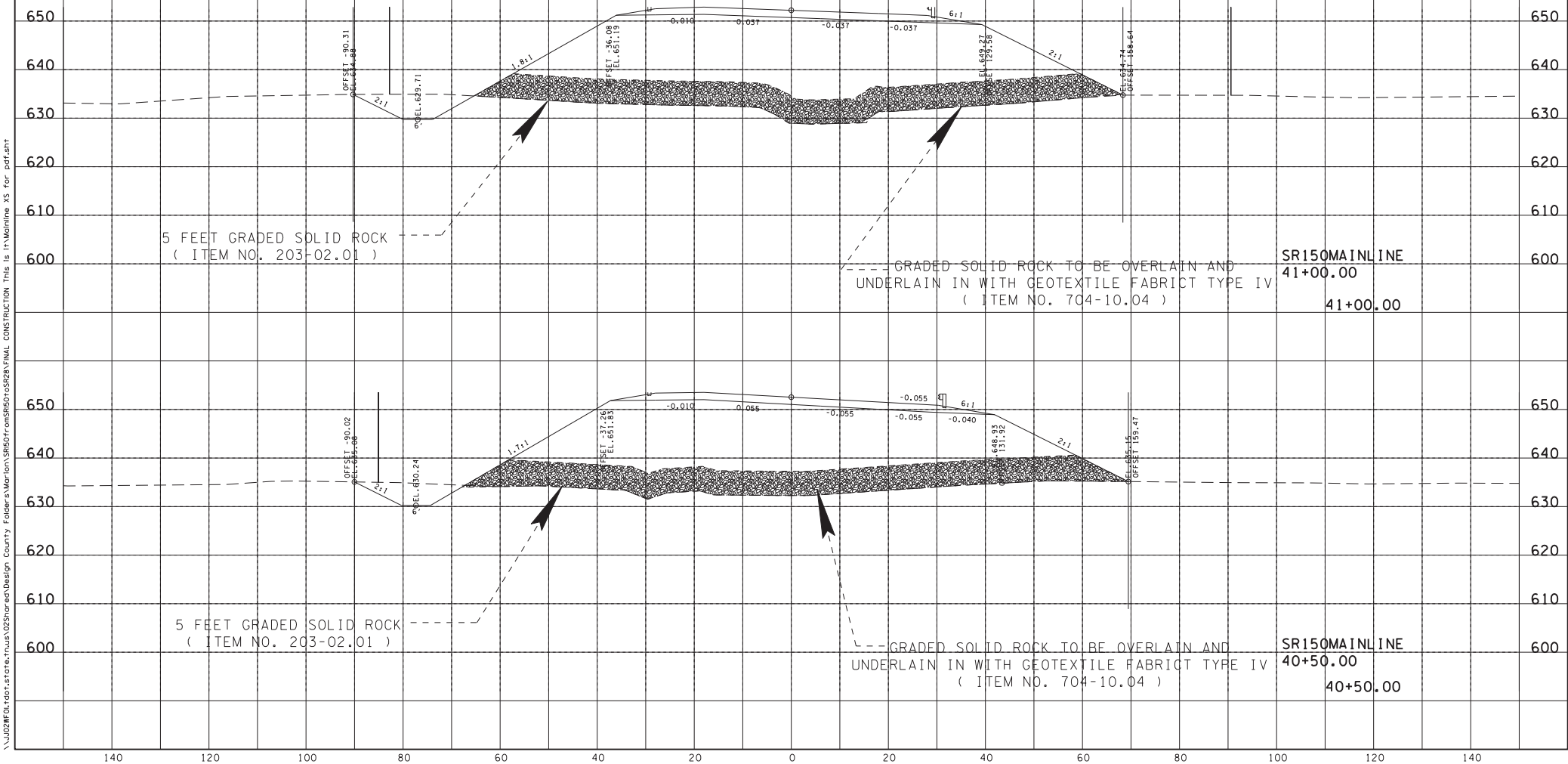
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	50



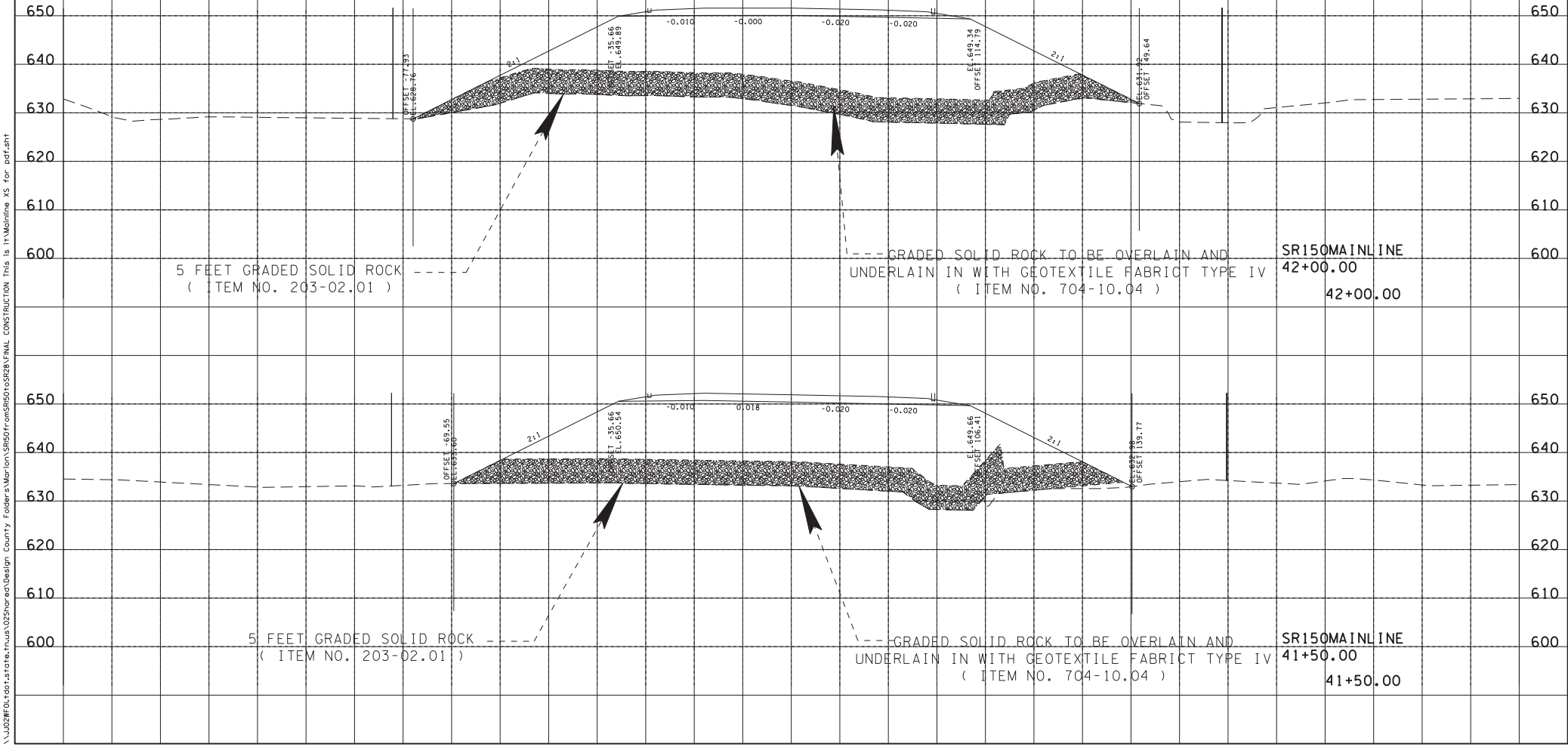
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	51



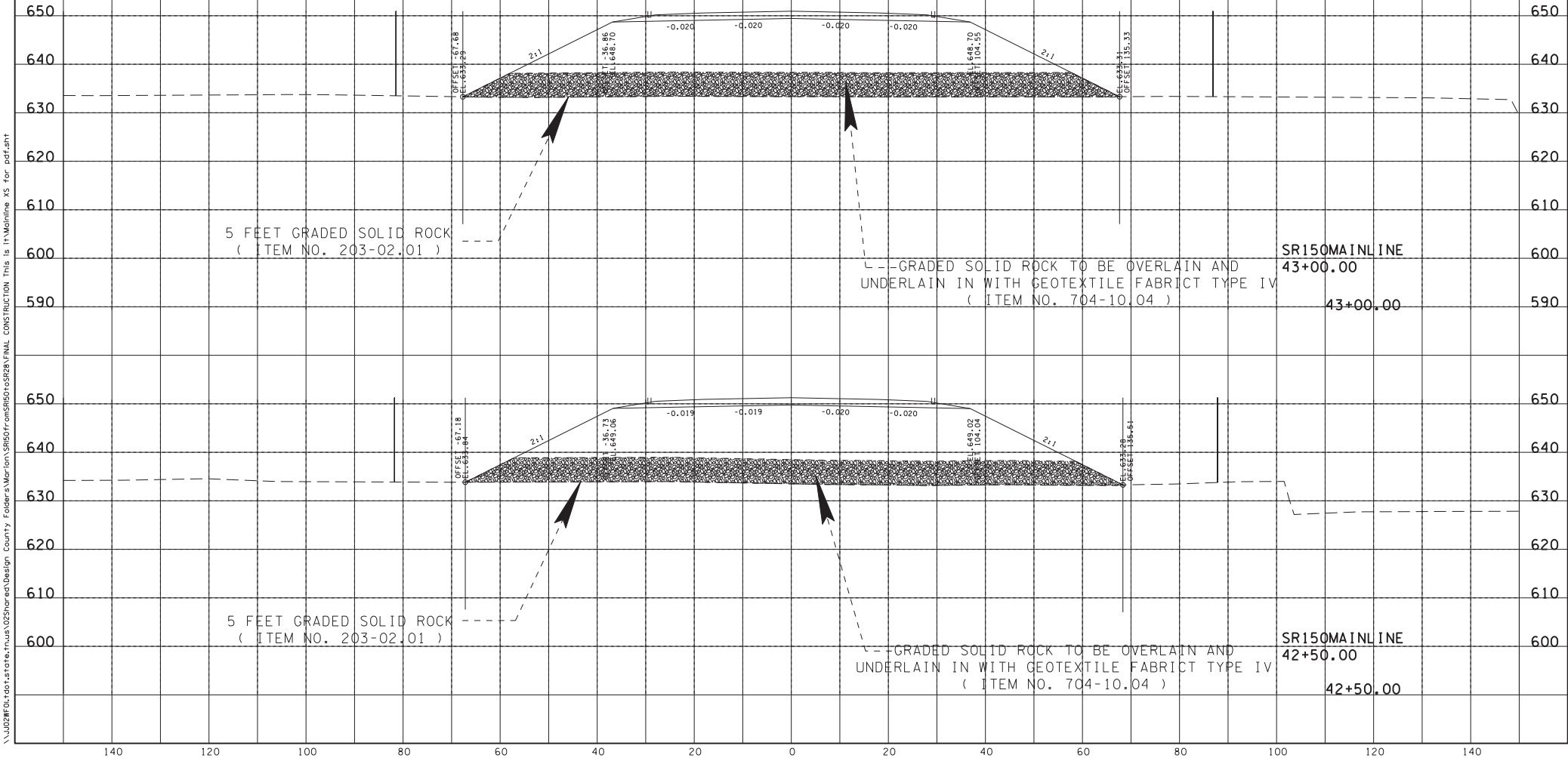
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	52



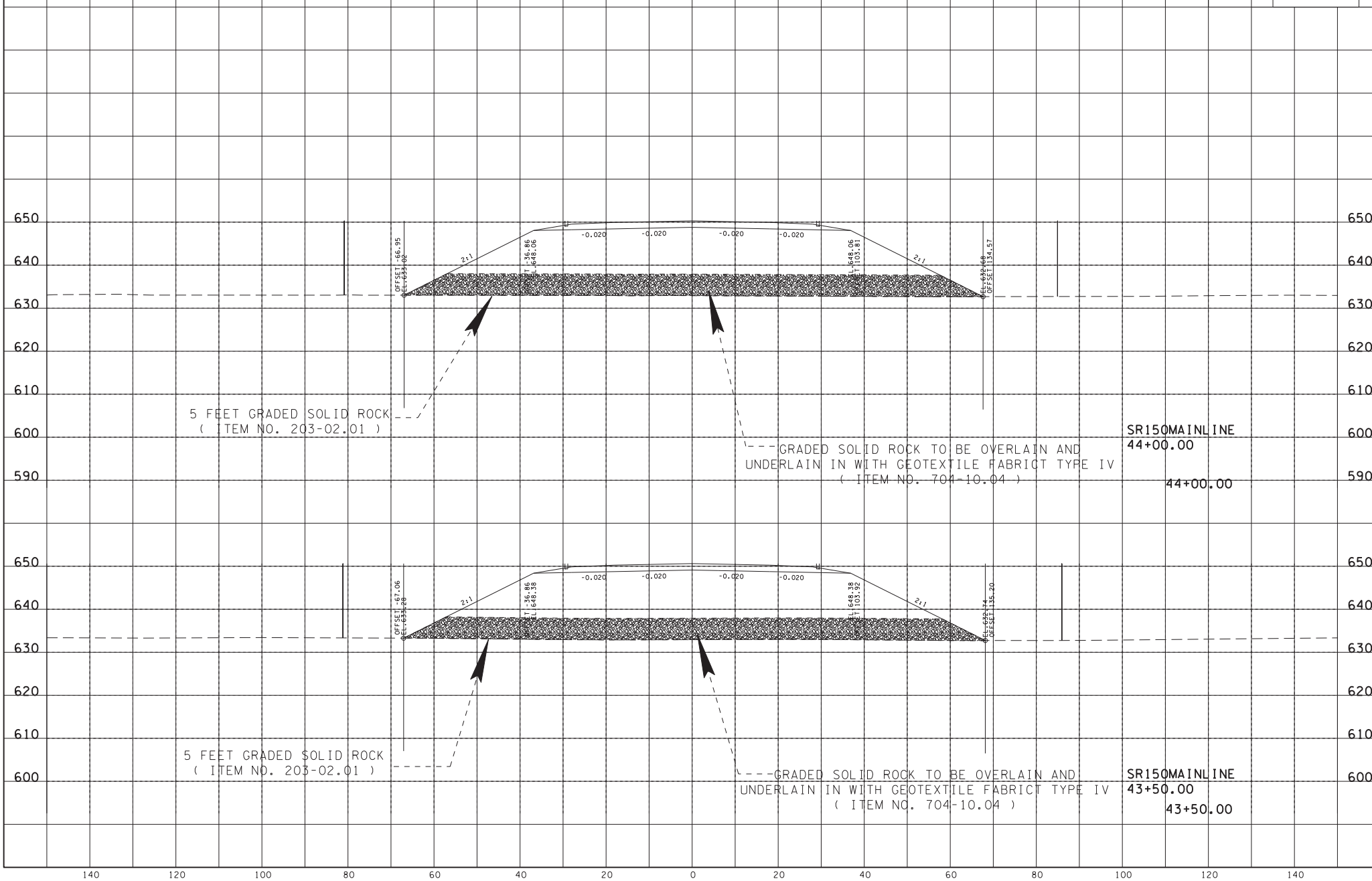
17-JUN-2015 13:20
\\J02WF01.fs01.state.in.us\JO2Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This Is 1\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	53



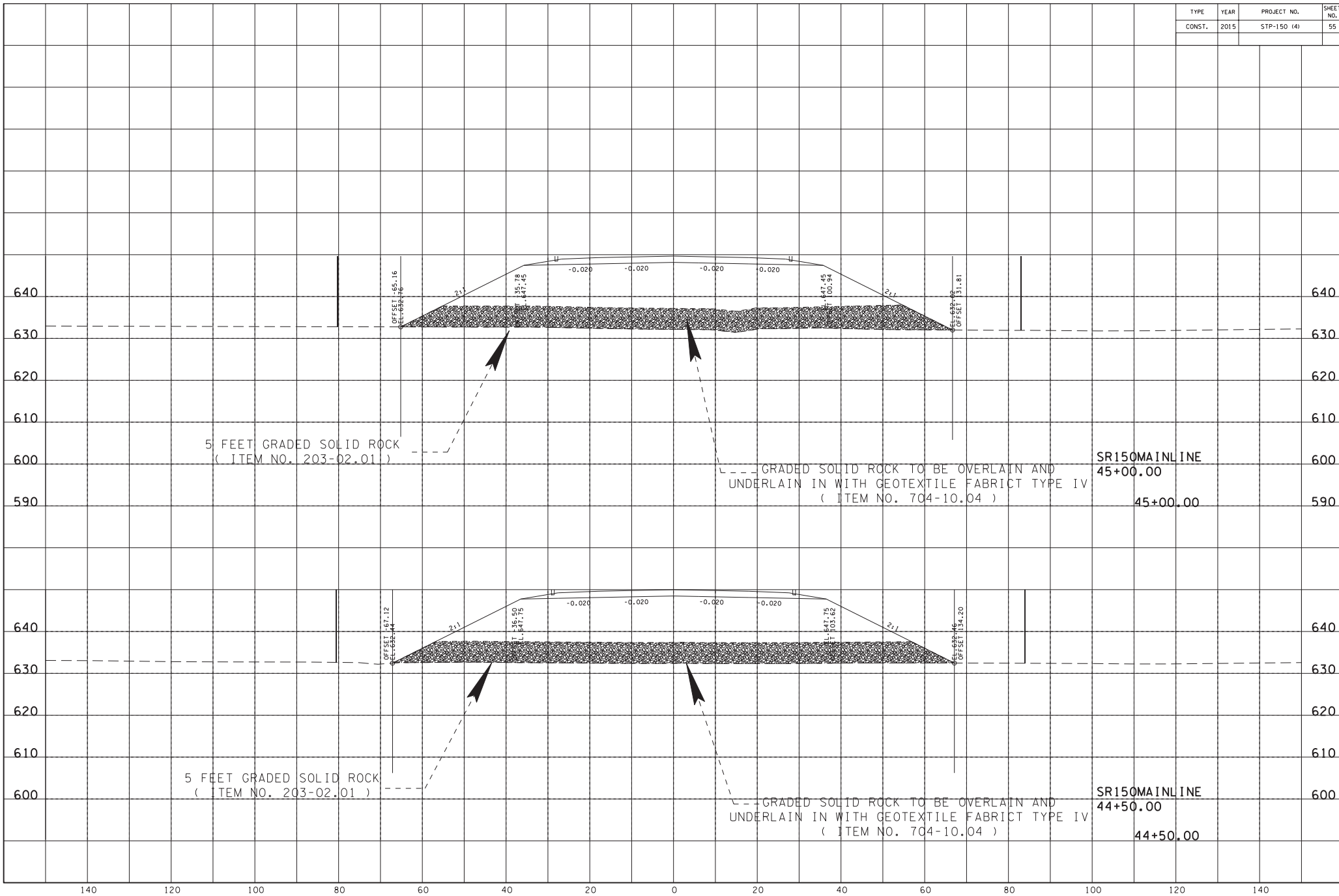
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	54



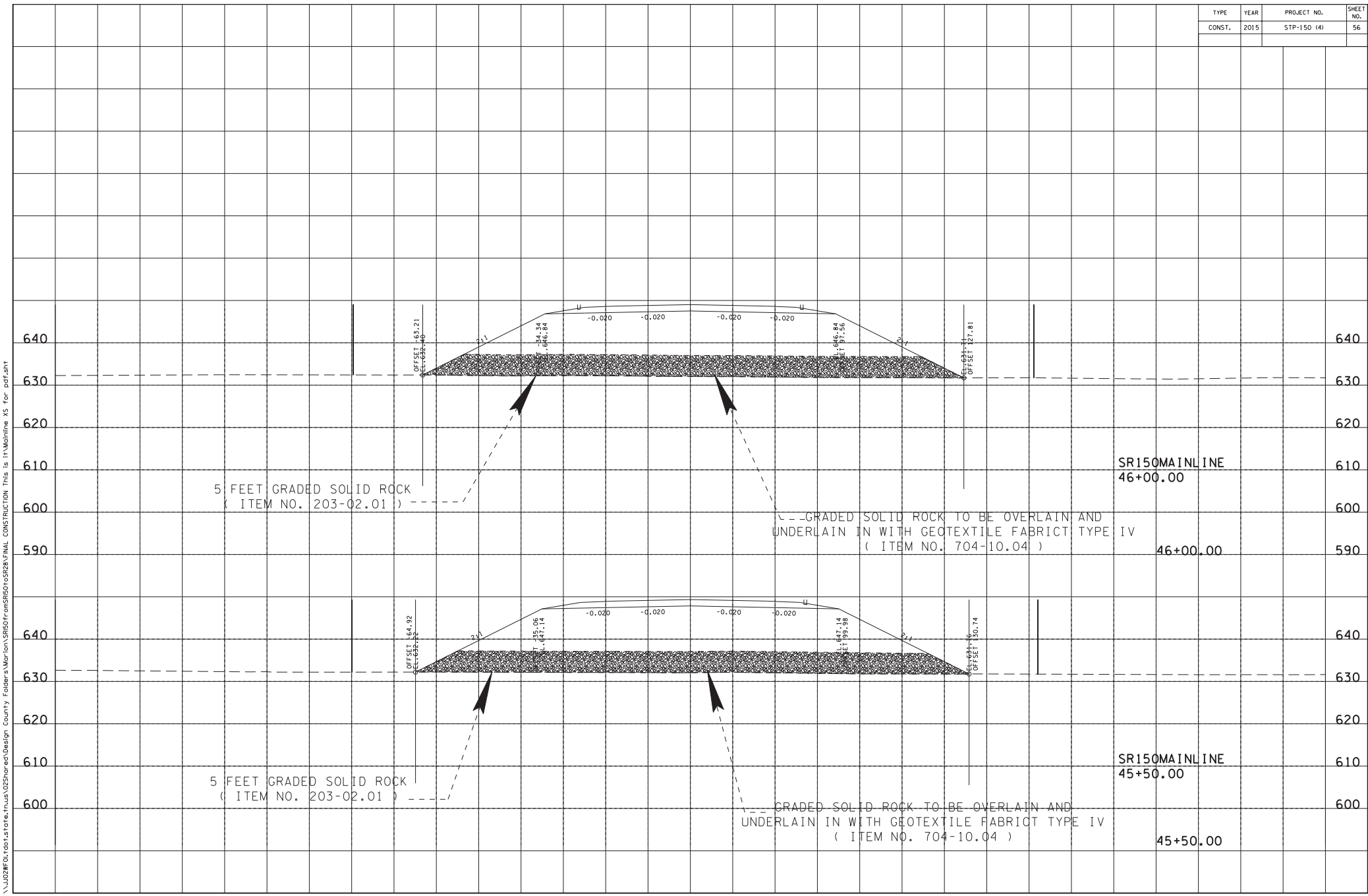
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	55



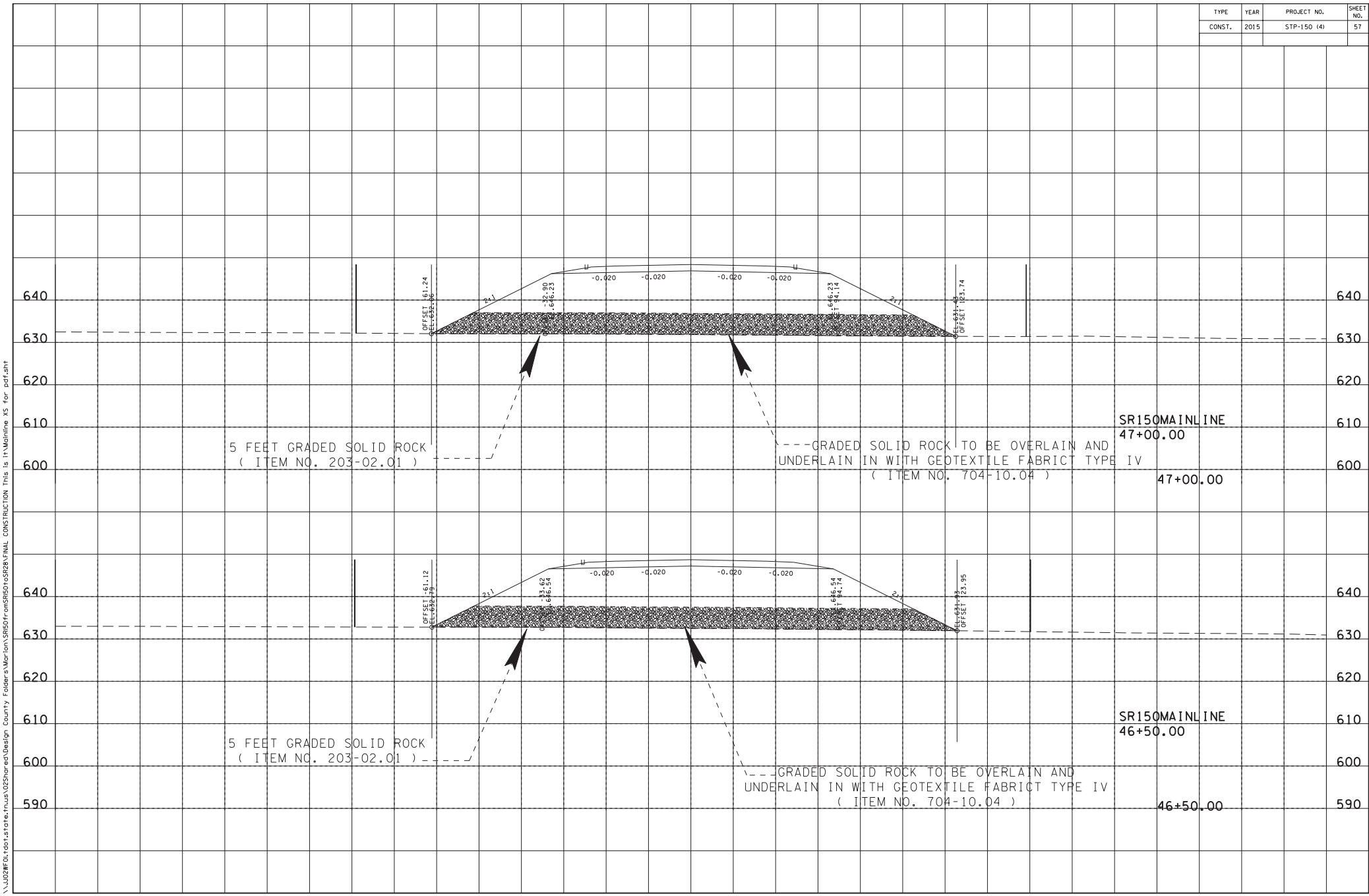
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	56



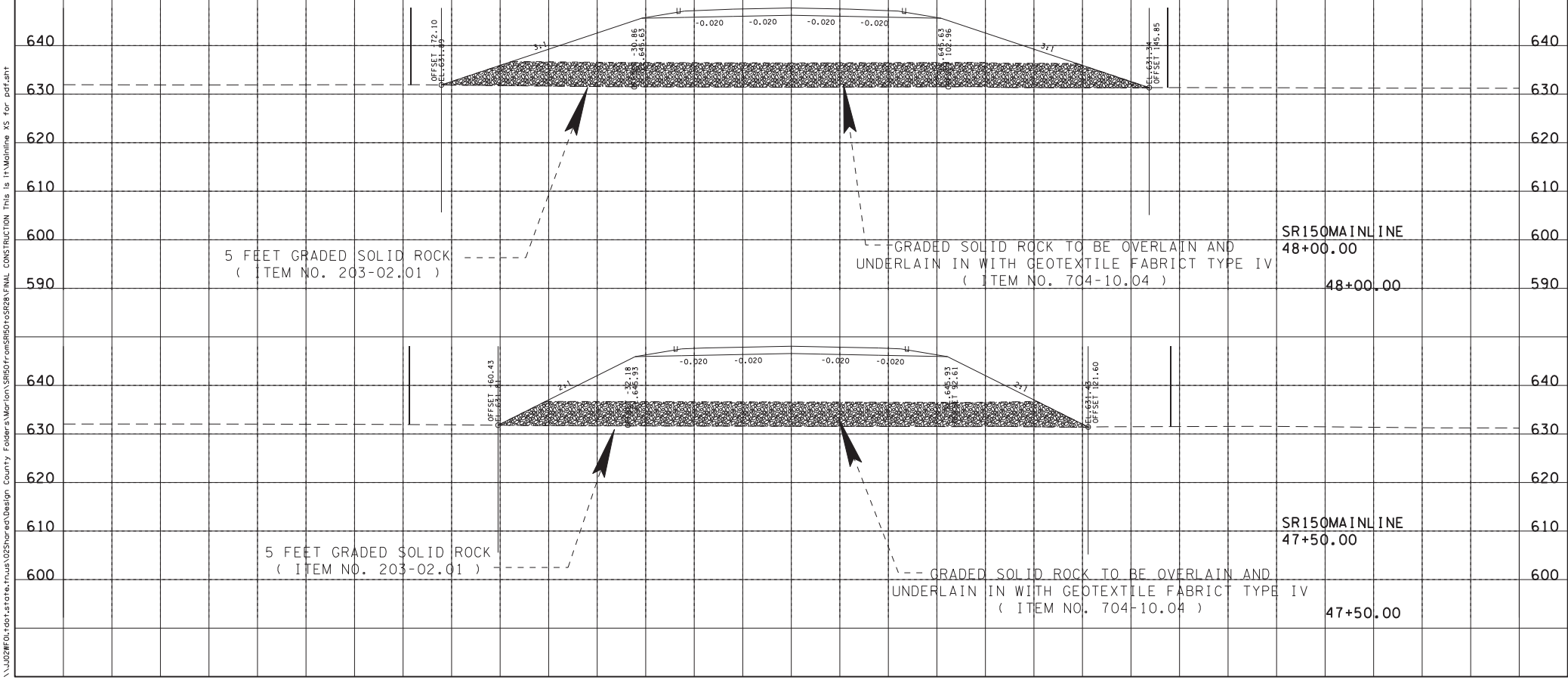
17-JUN-2015 13:20
\\J02WF01.fdot.state.fl.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This Is 1\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	57



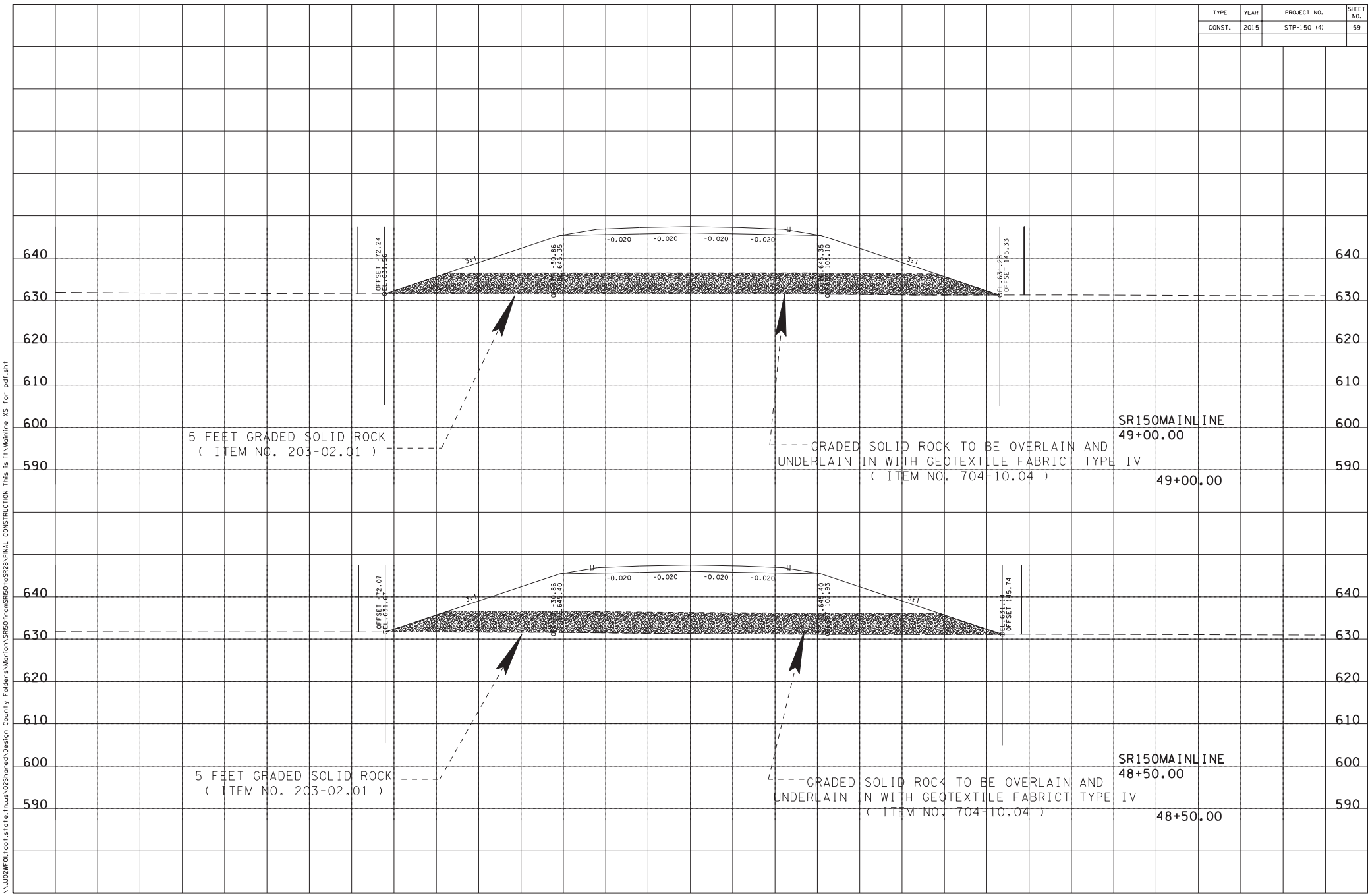
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	58



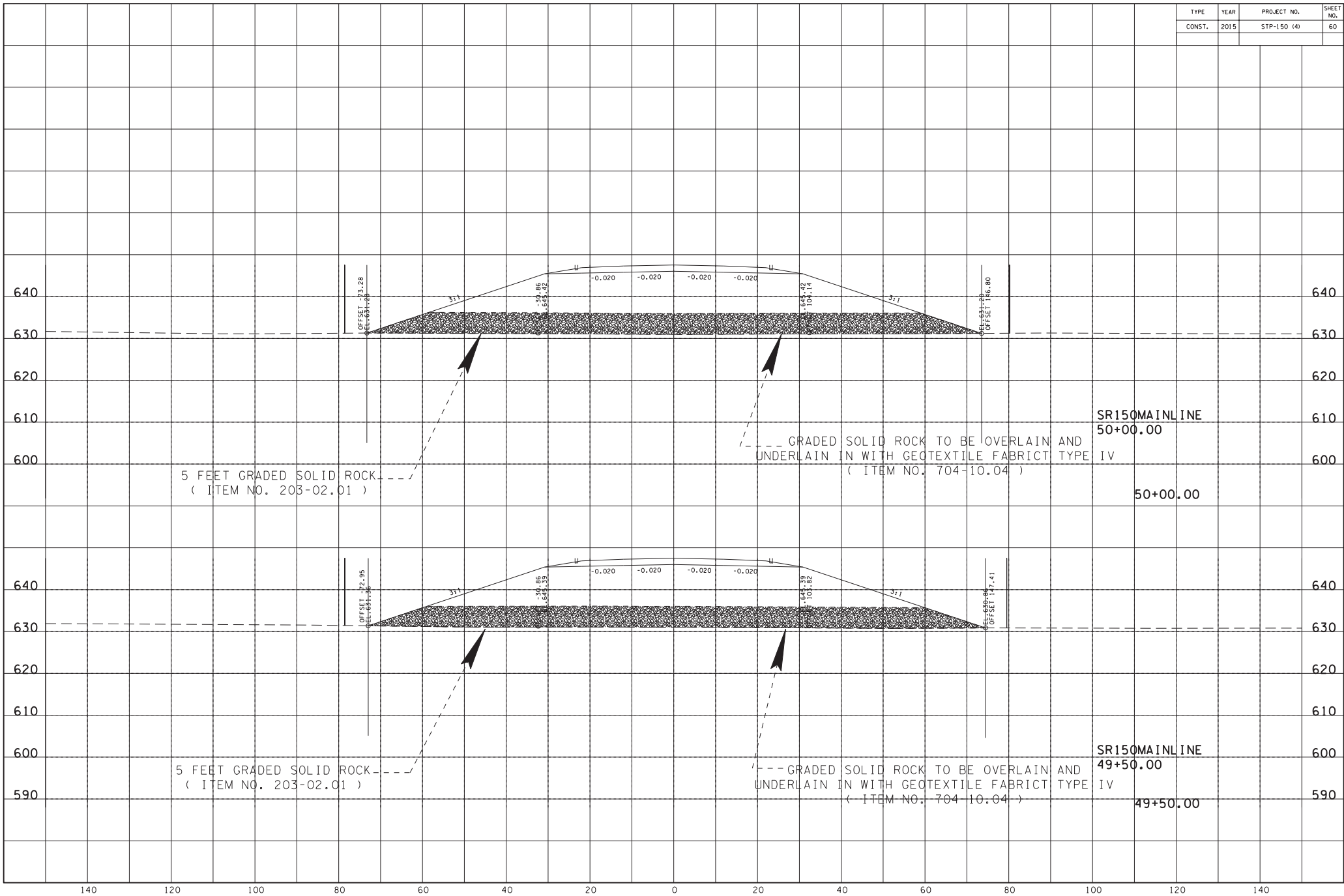
17-JUN-2015 13:20
\\J02WF01.fdot.state.fl.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This Is 1\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	59



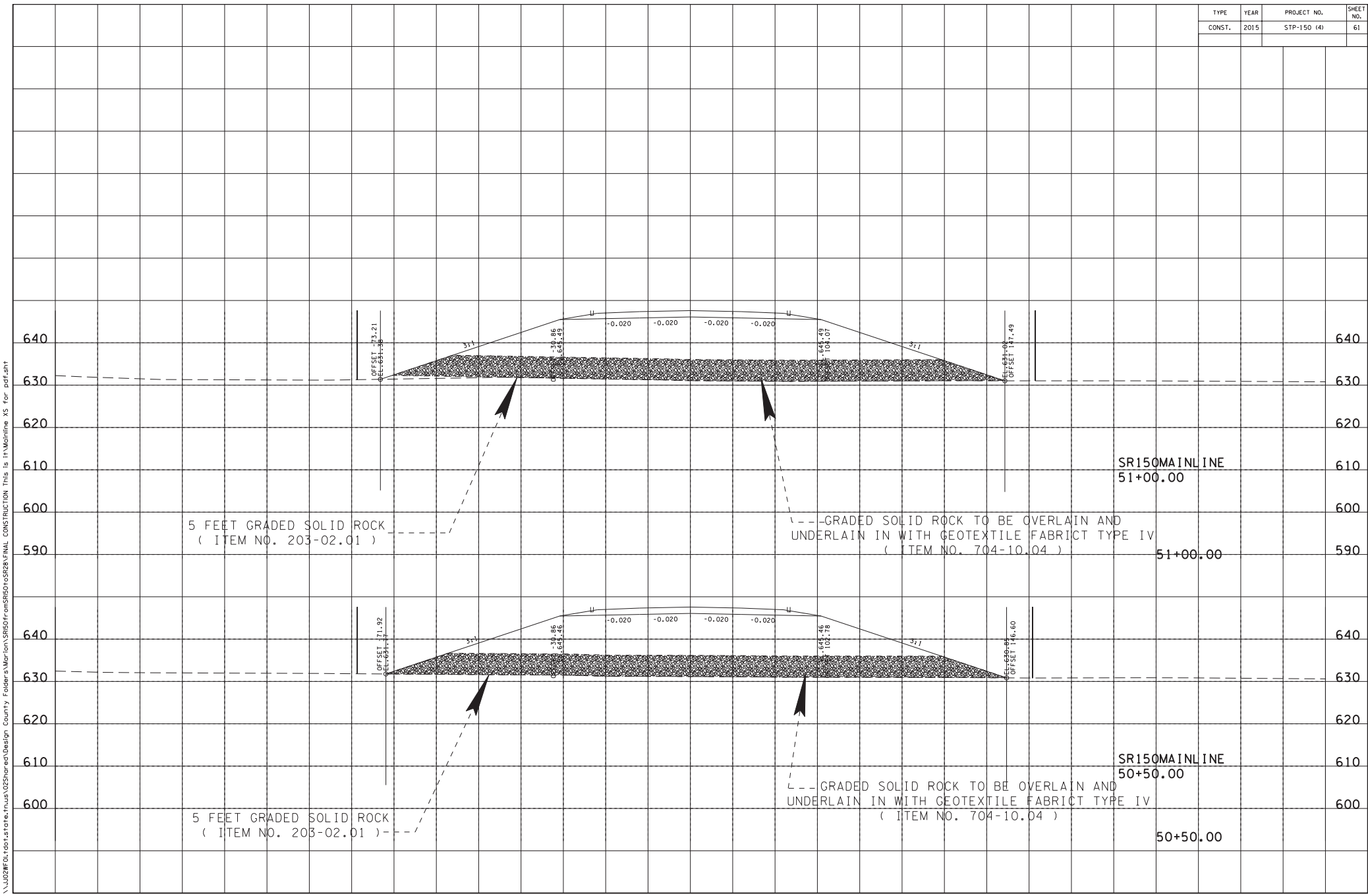
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	60



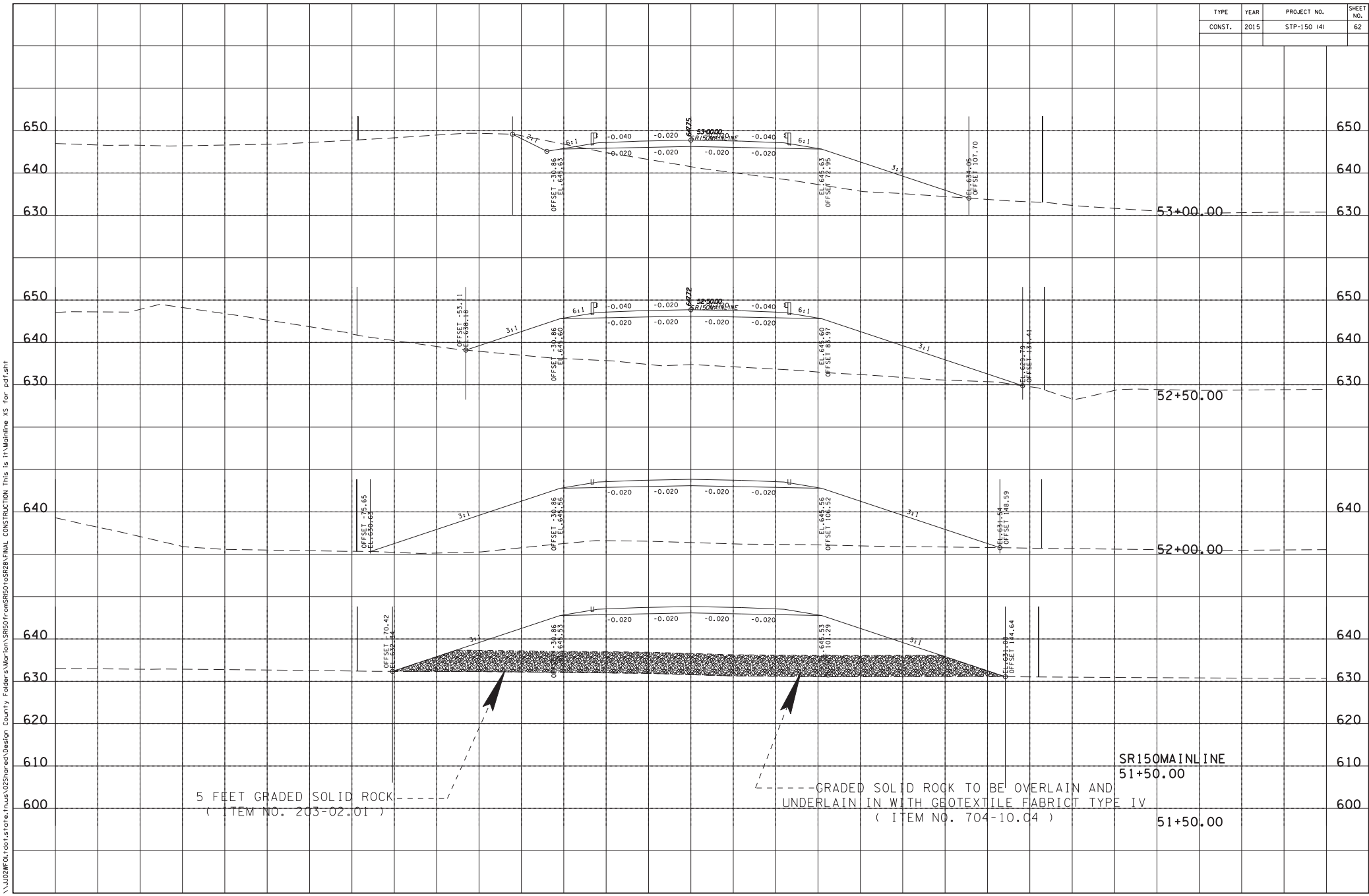
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	61



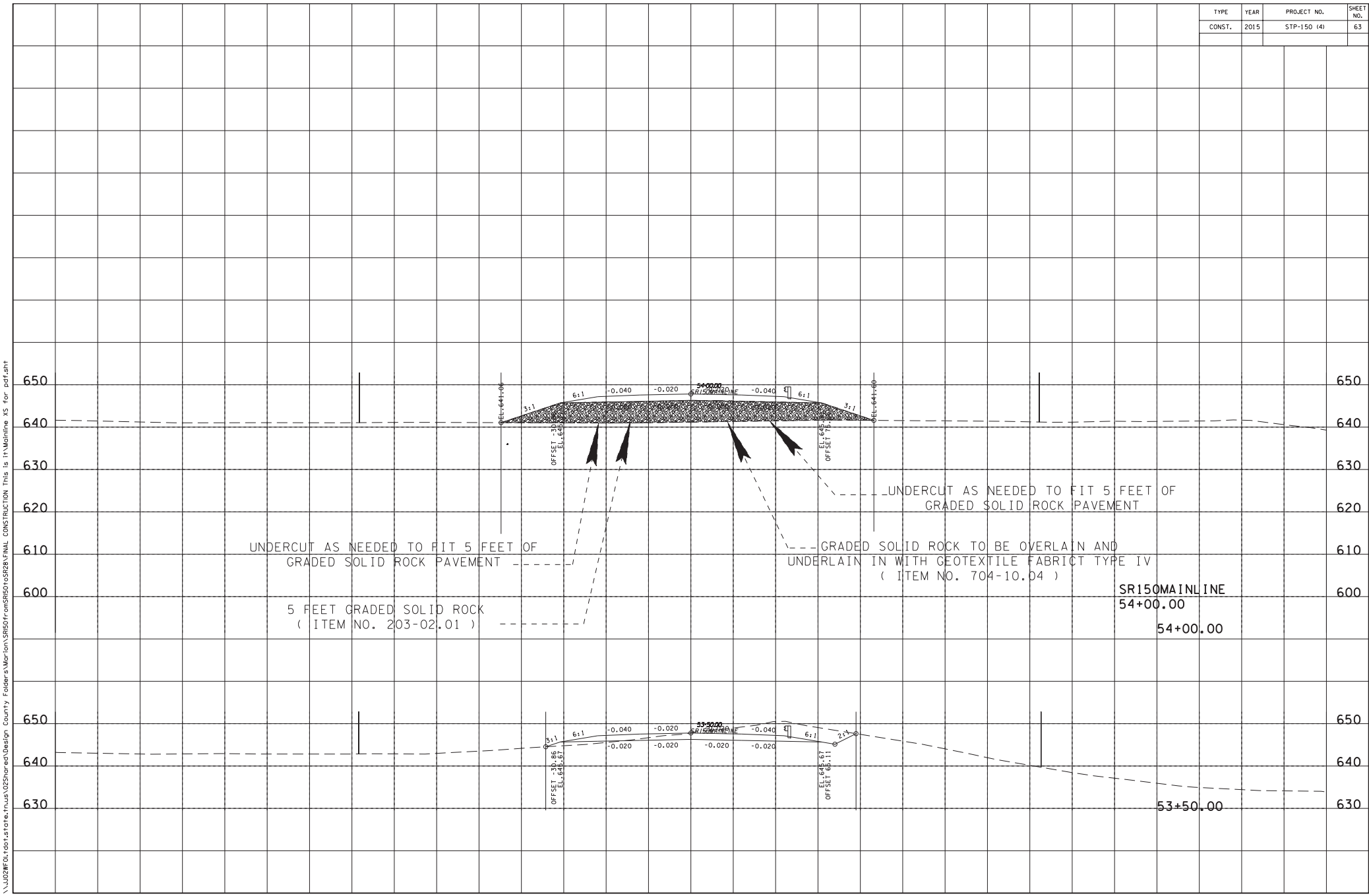
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	62



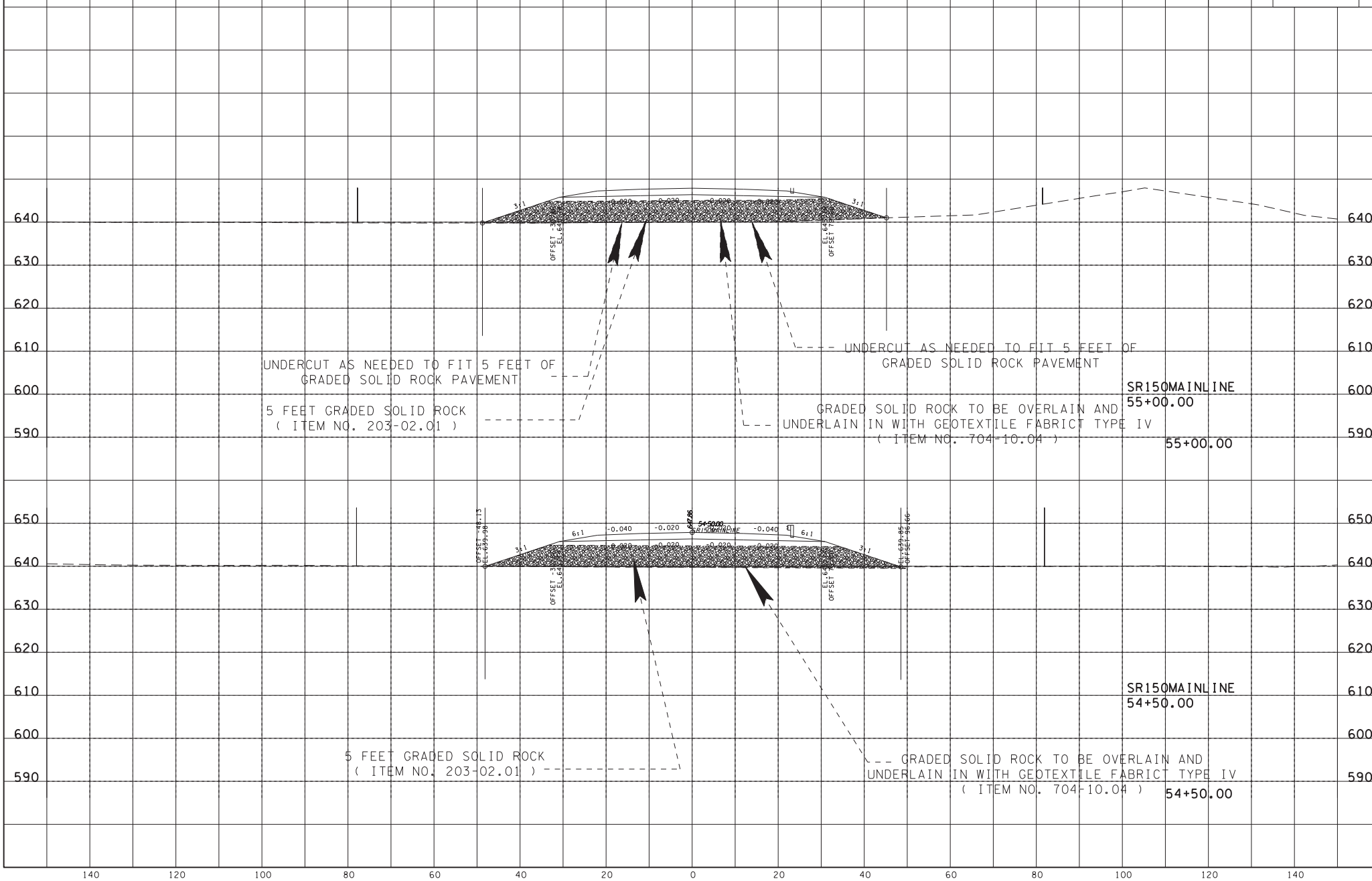
17-JUN-2015 13:20
\\J02WF01.fdot.state.fl.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR326\FINAL CONSTRUCTION This Is It\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	63



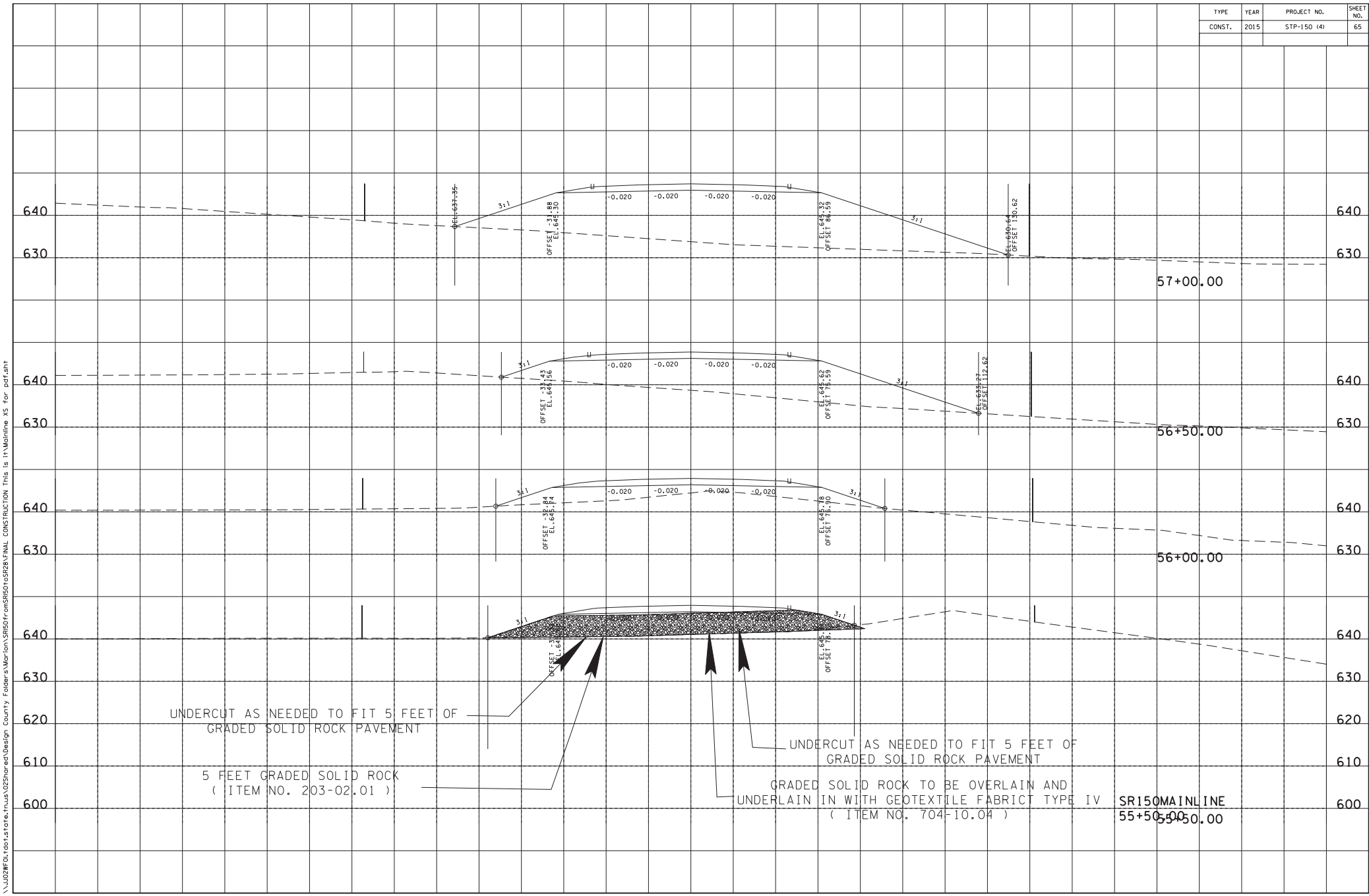
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	64



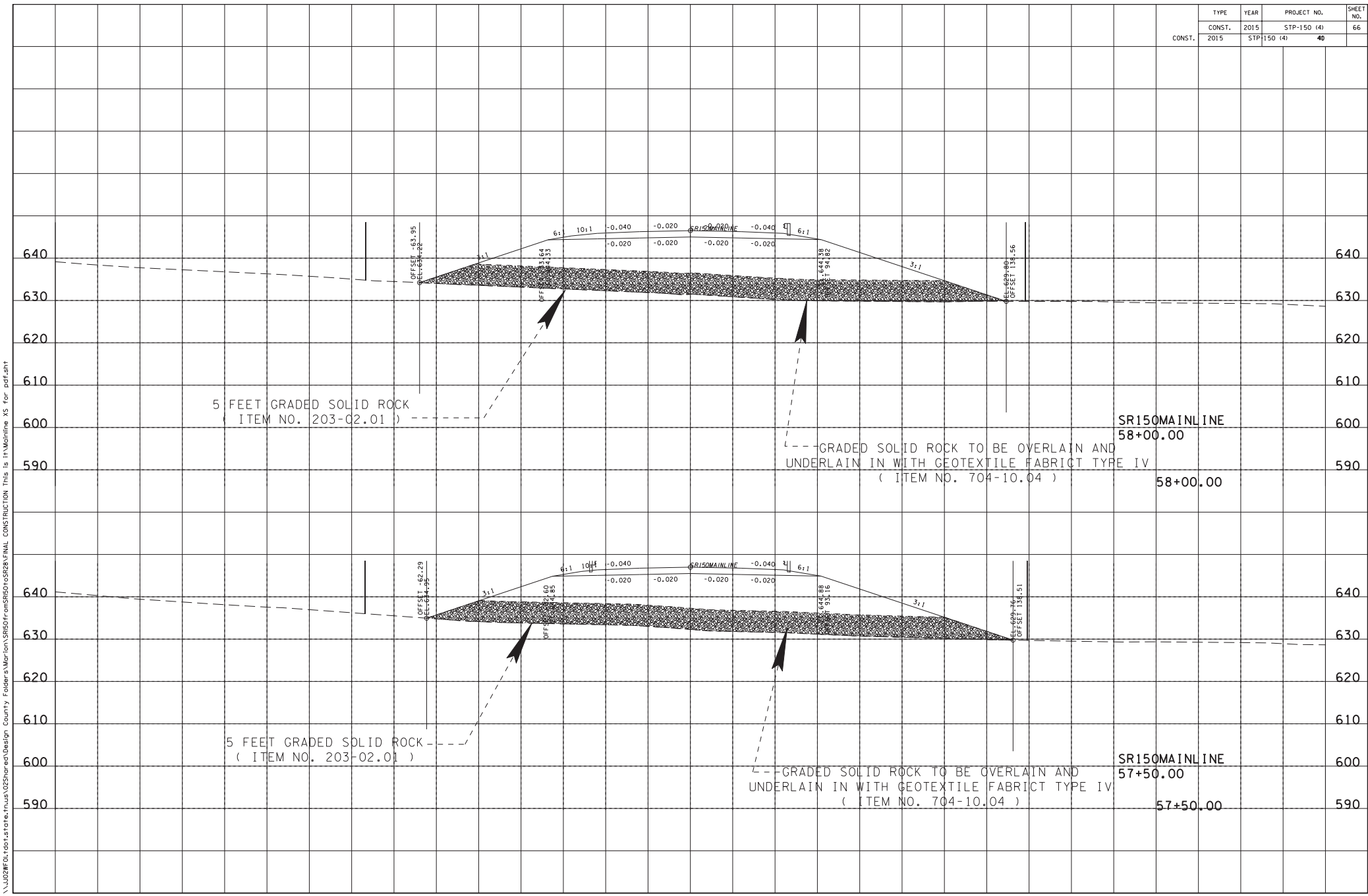
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	65



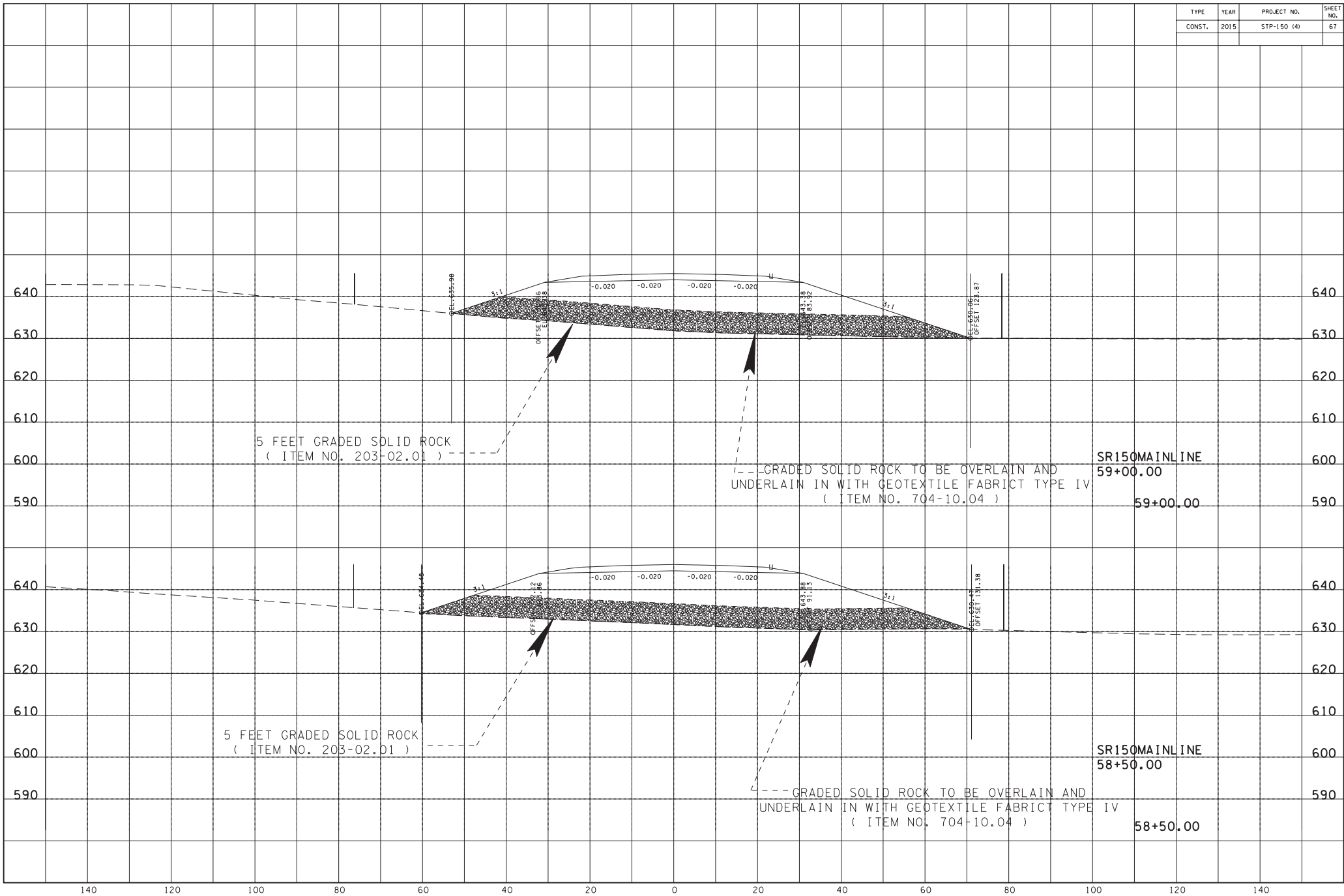
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	66
CONST.	2015	STP-150 (4)	40



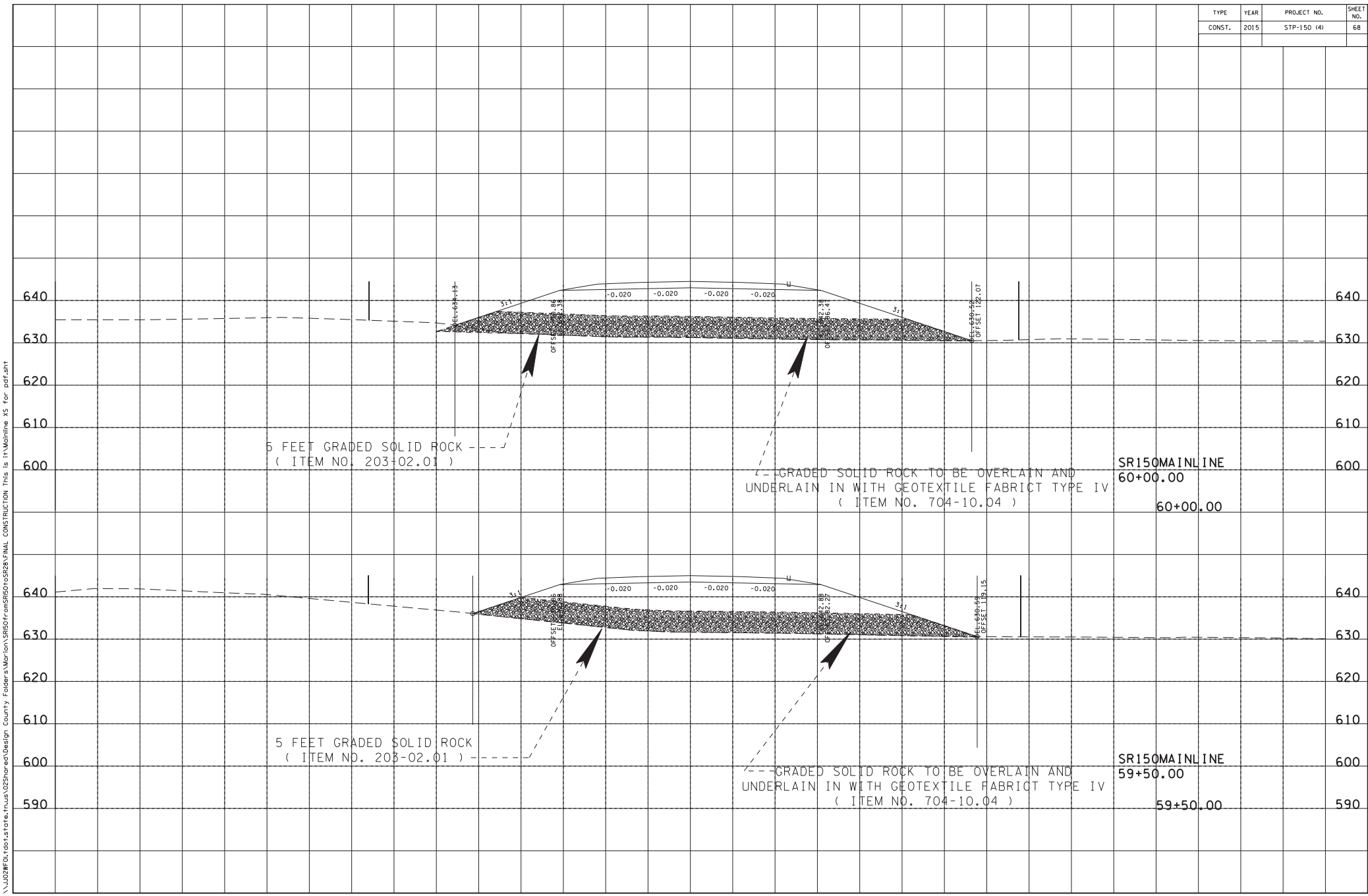
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	67



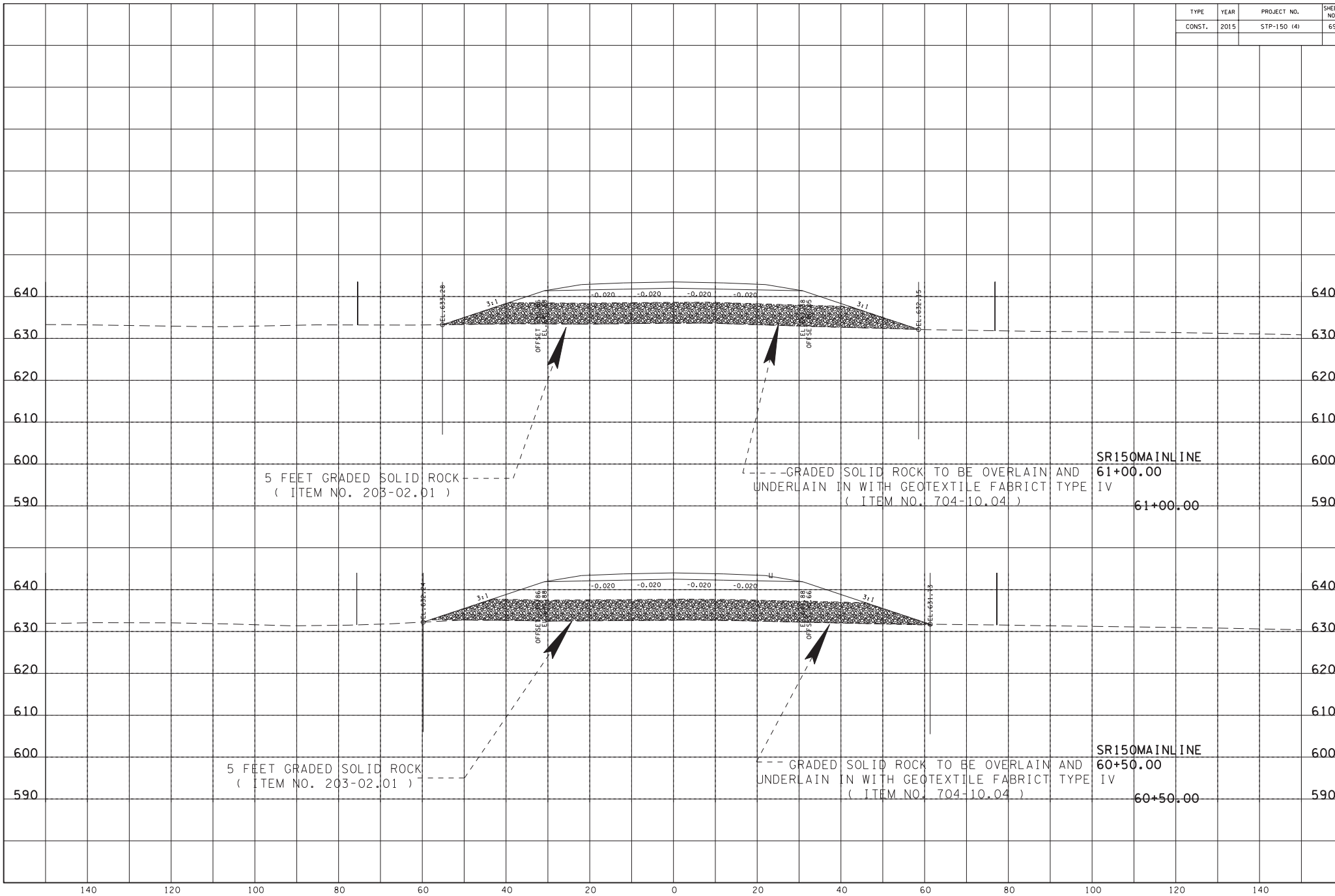
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	68



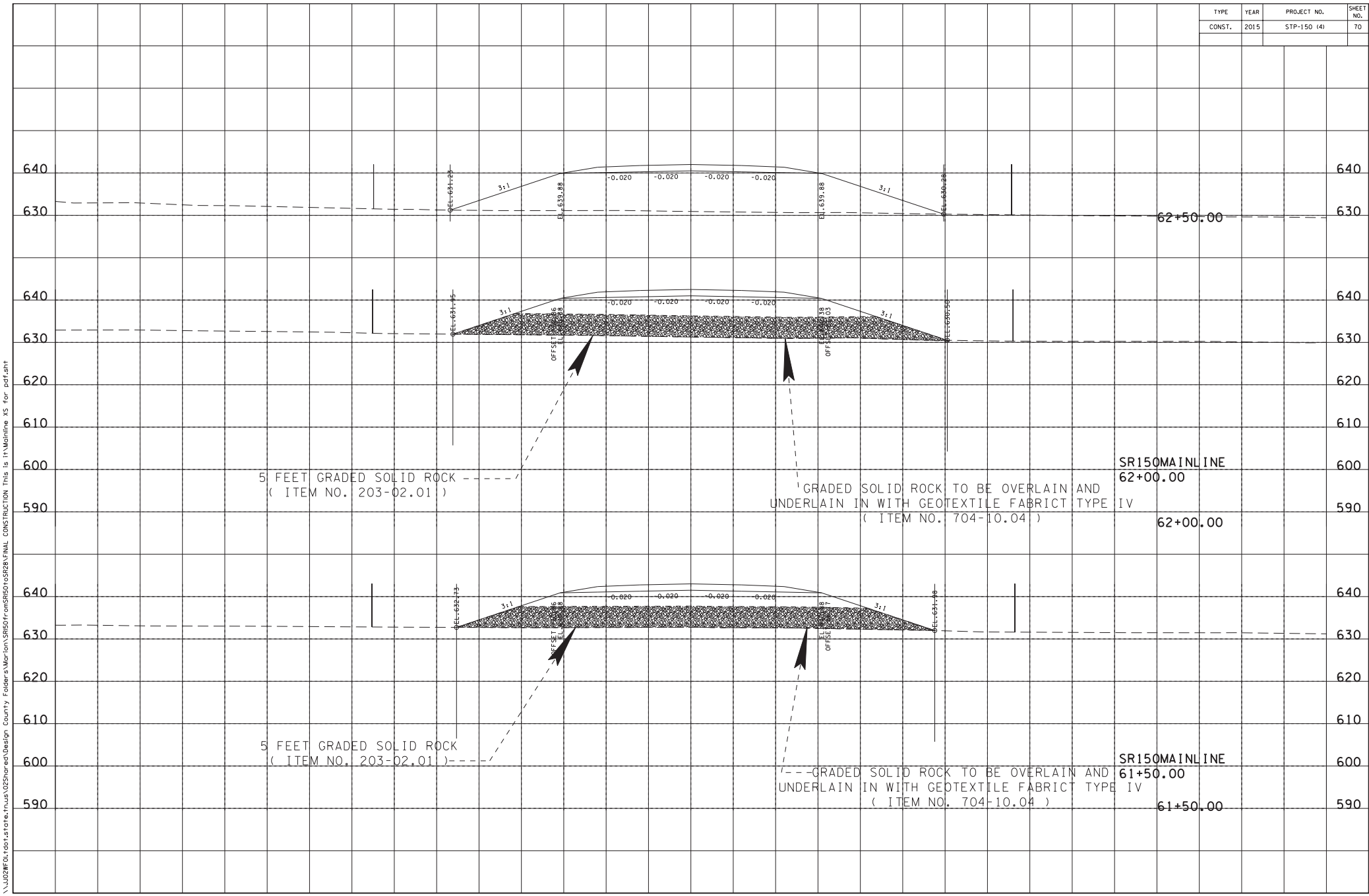
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	69



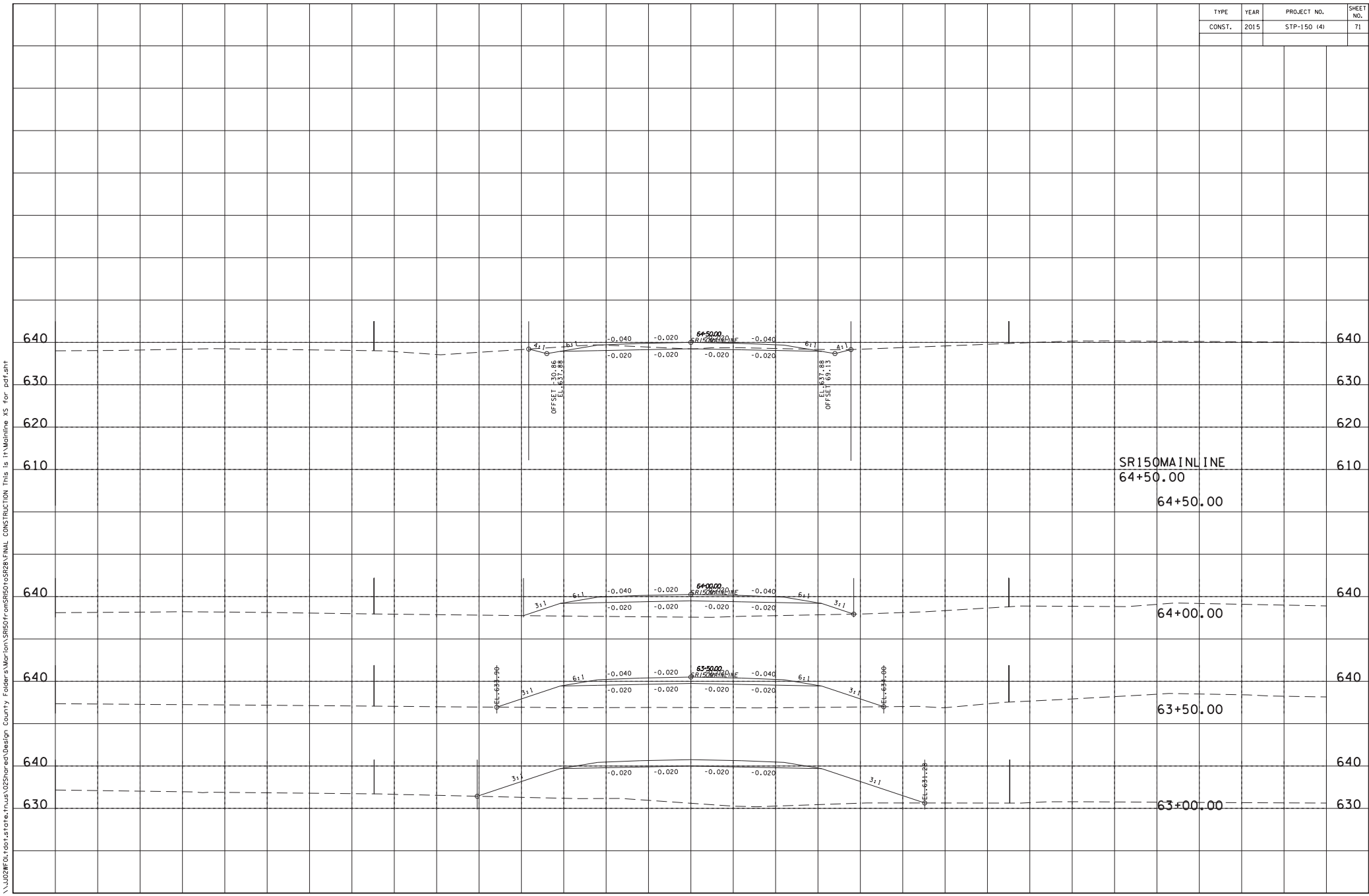
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	70



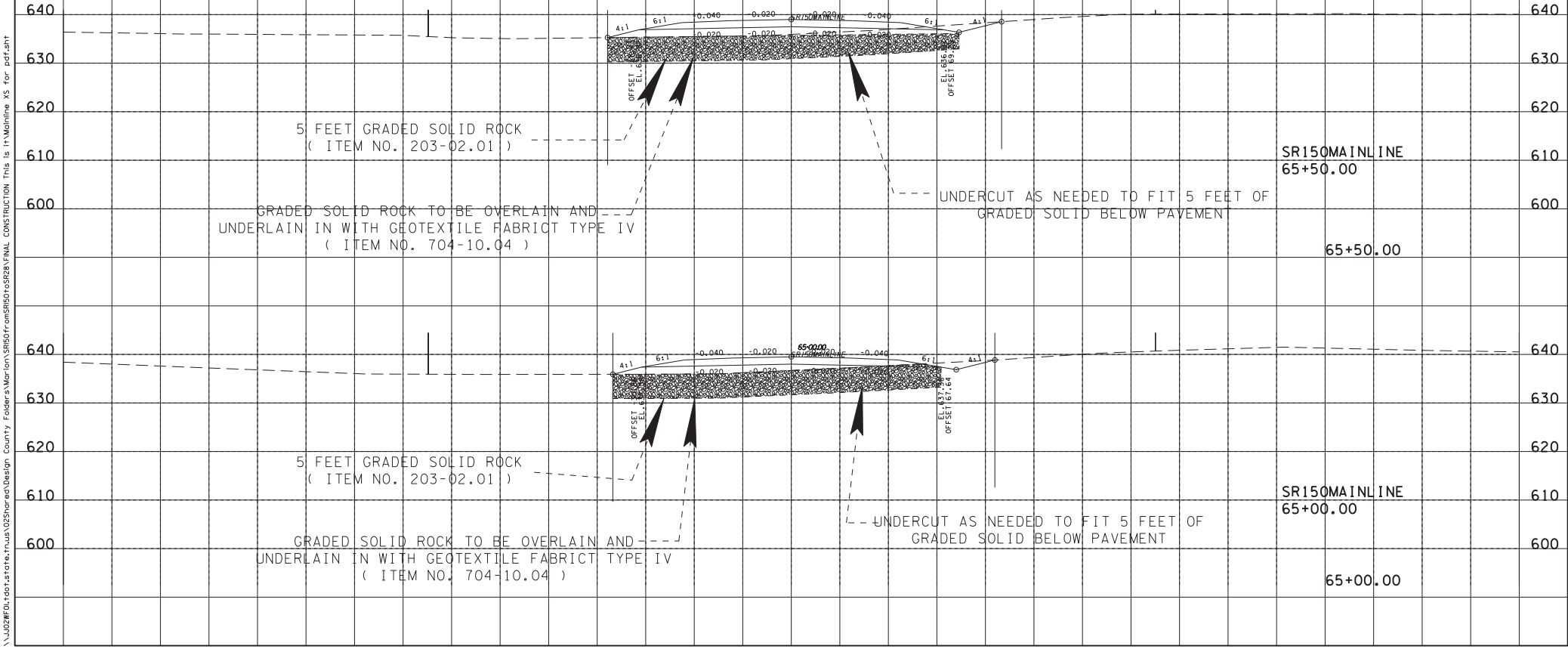
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	71



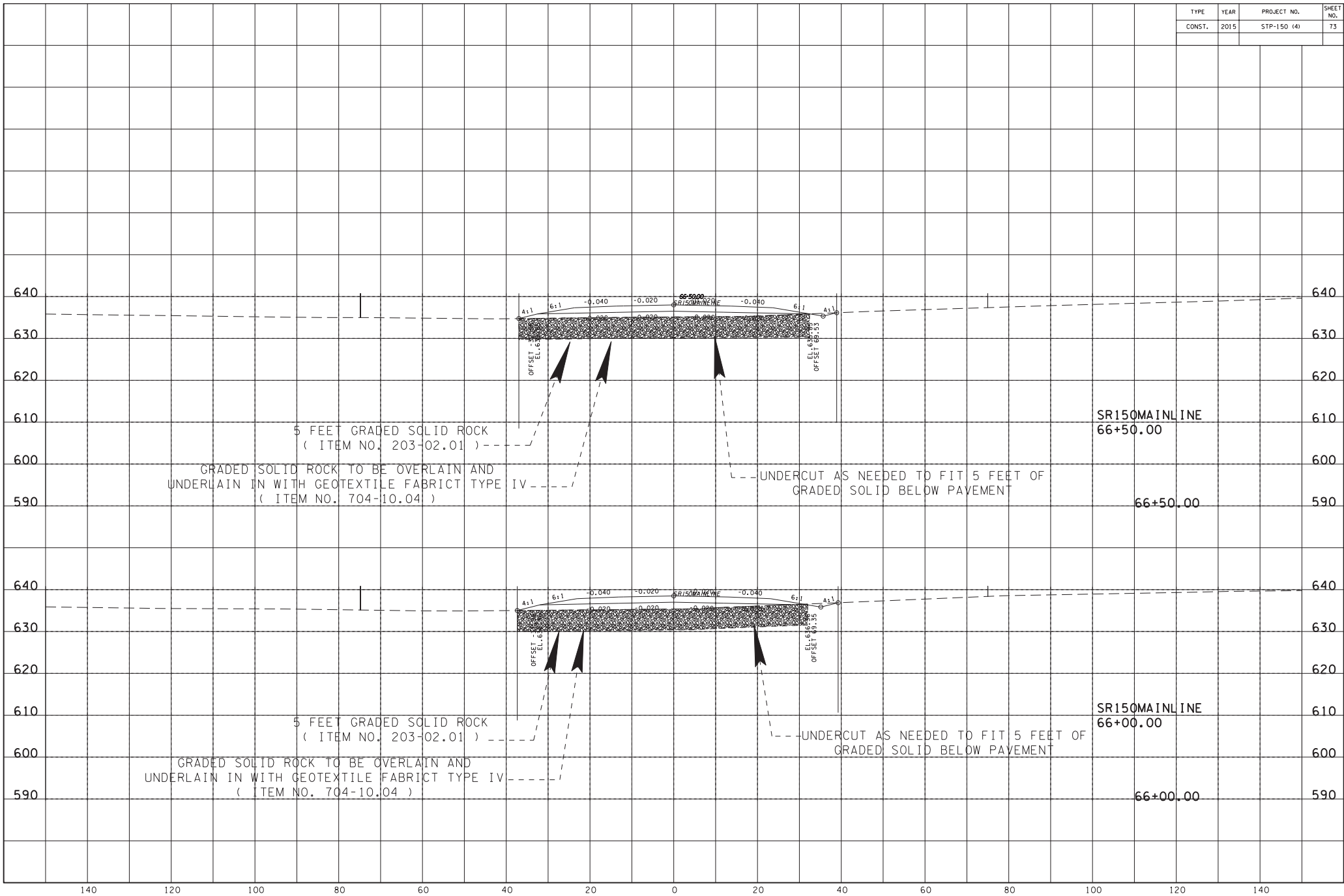
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	72



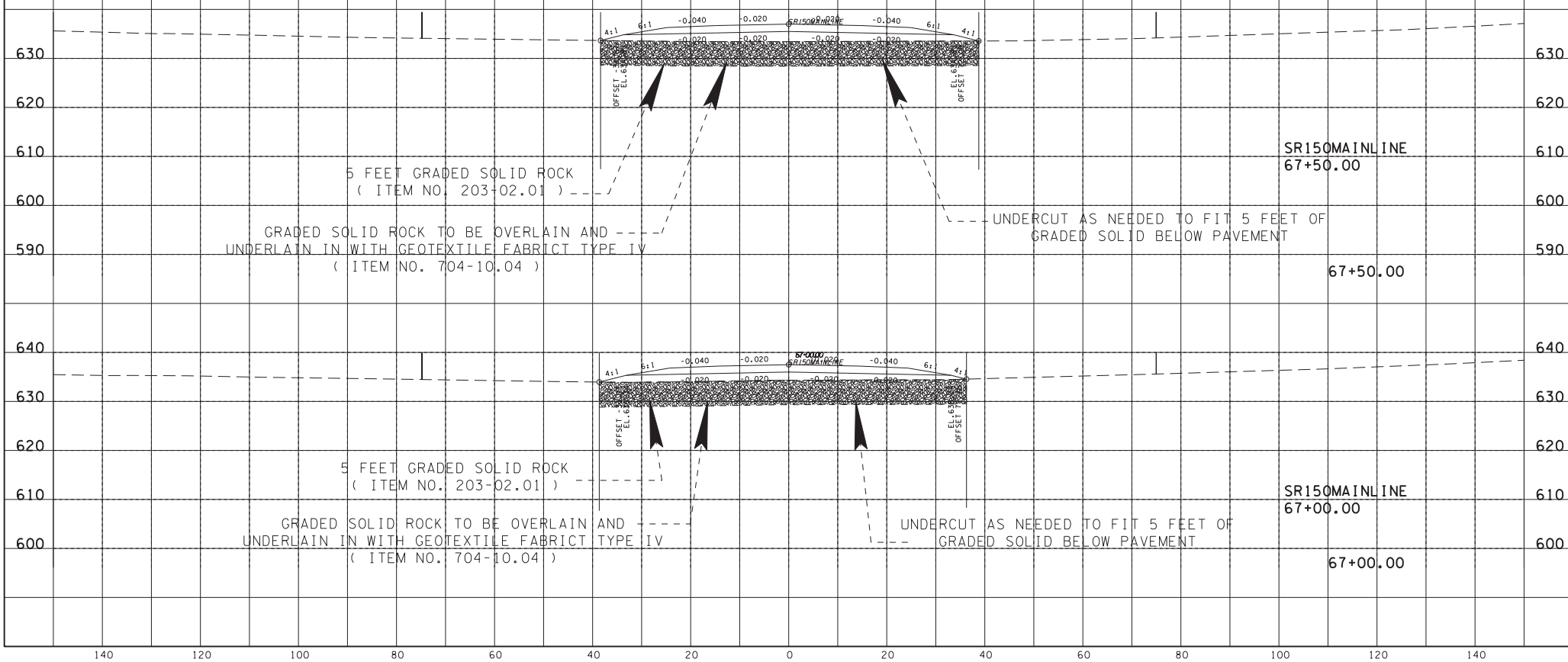
17-JUN-2015 13:20
\\J02WF01.fdot.state.fl.us\J02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is 1+\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	73



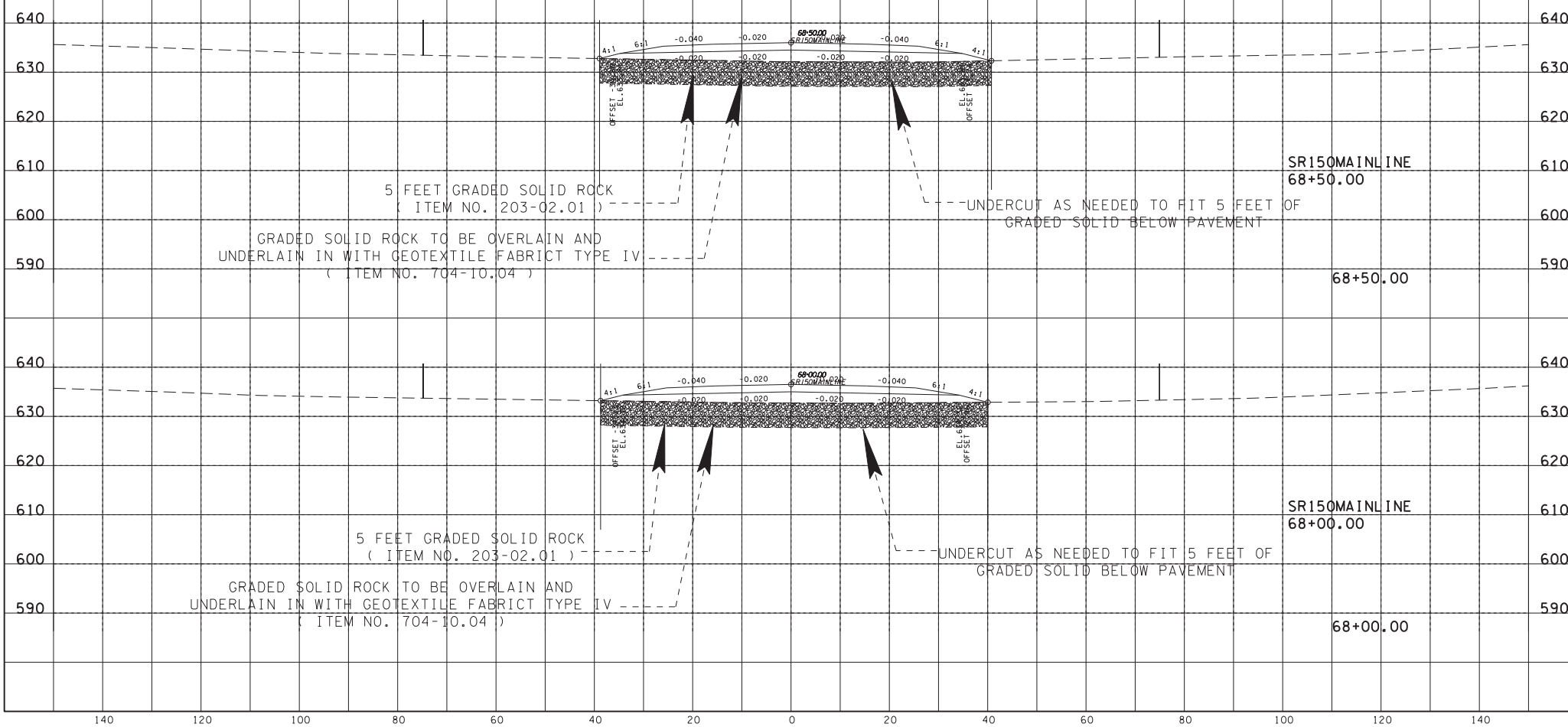
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	74



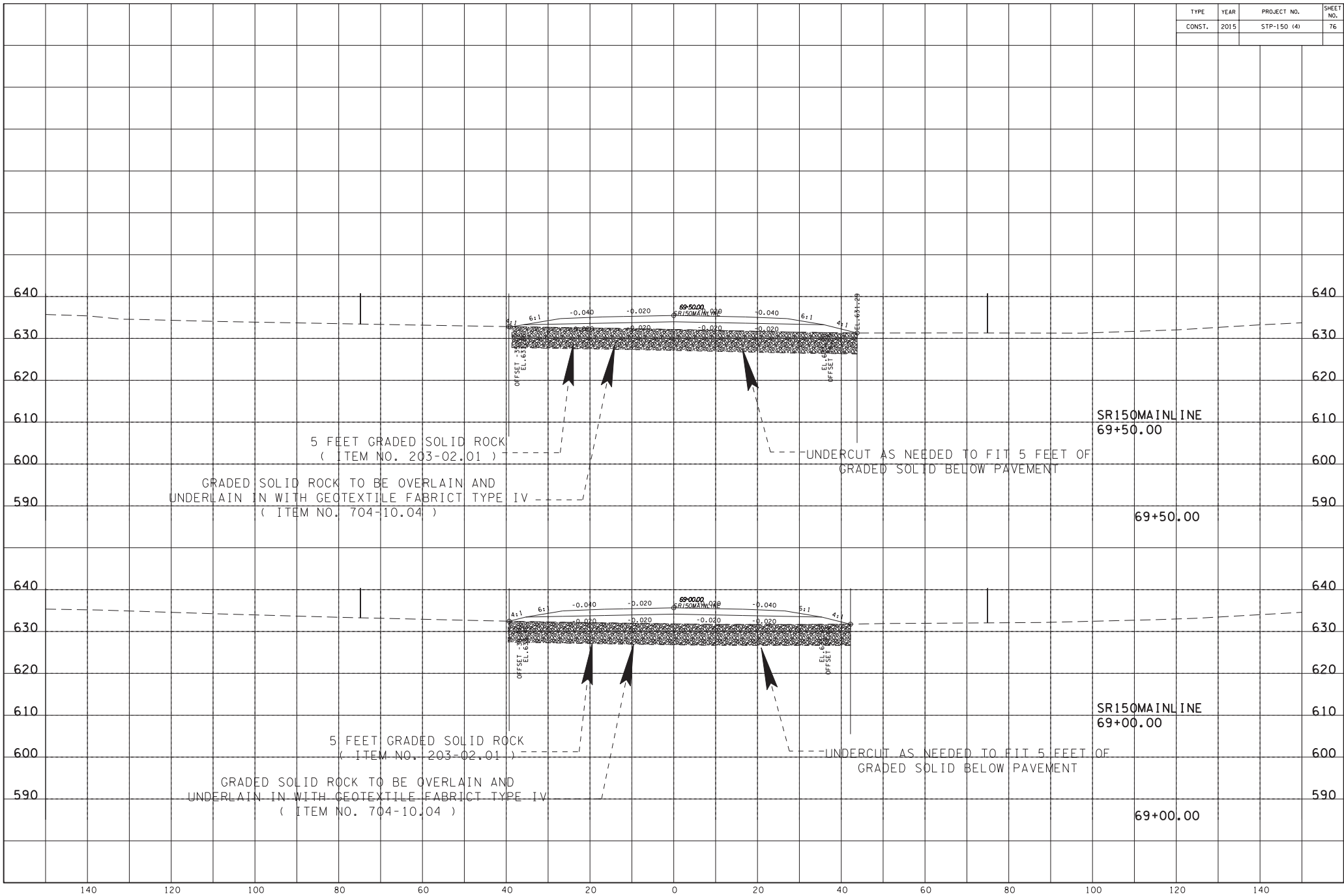
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	75



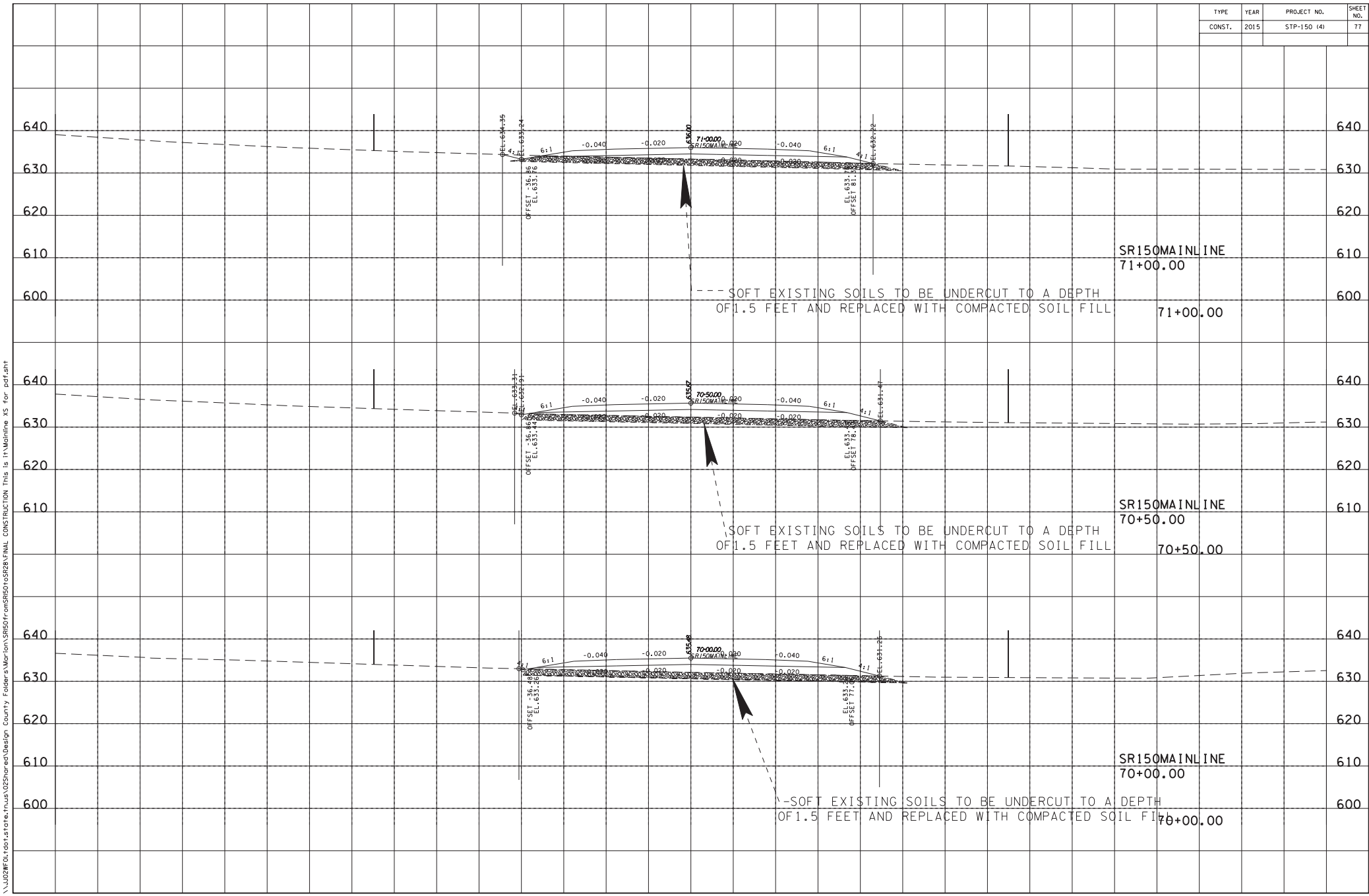
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	76



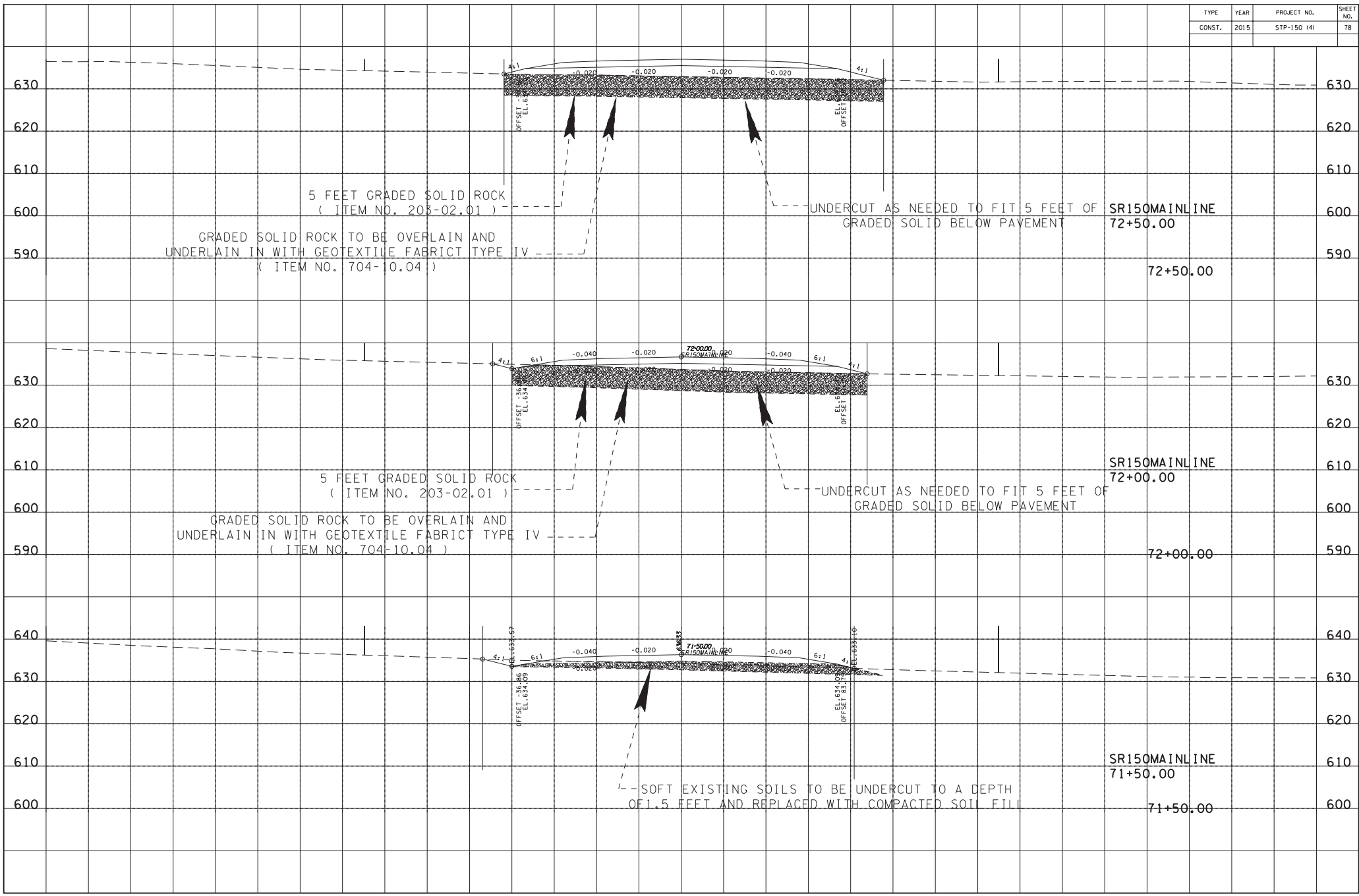
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	77



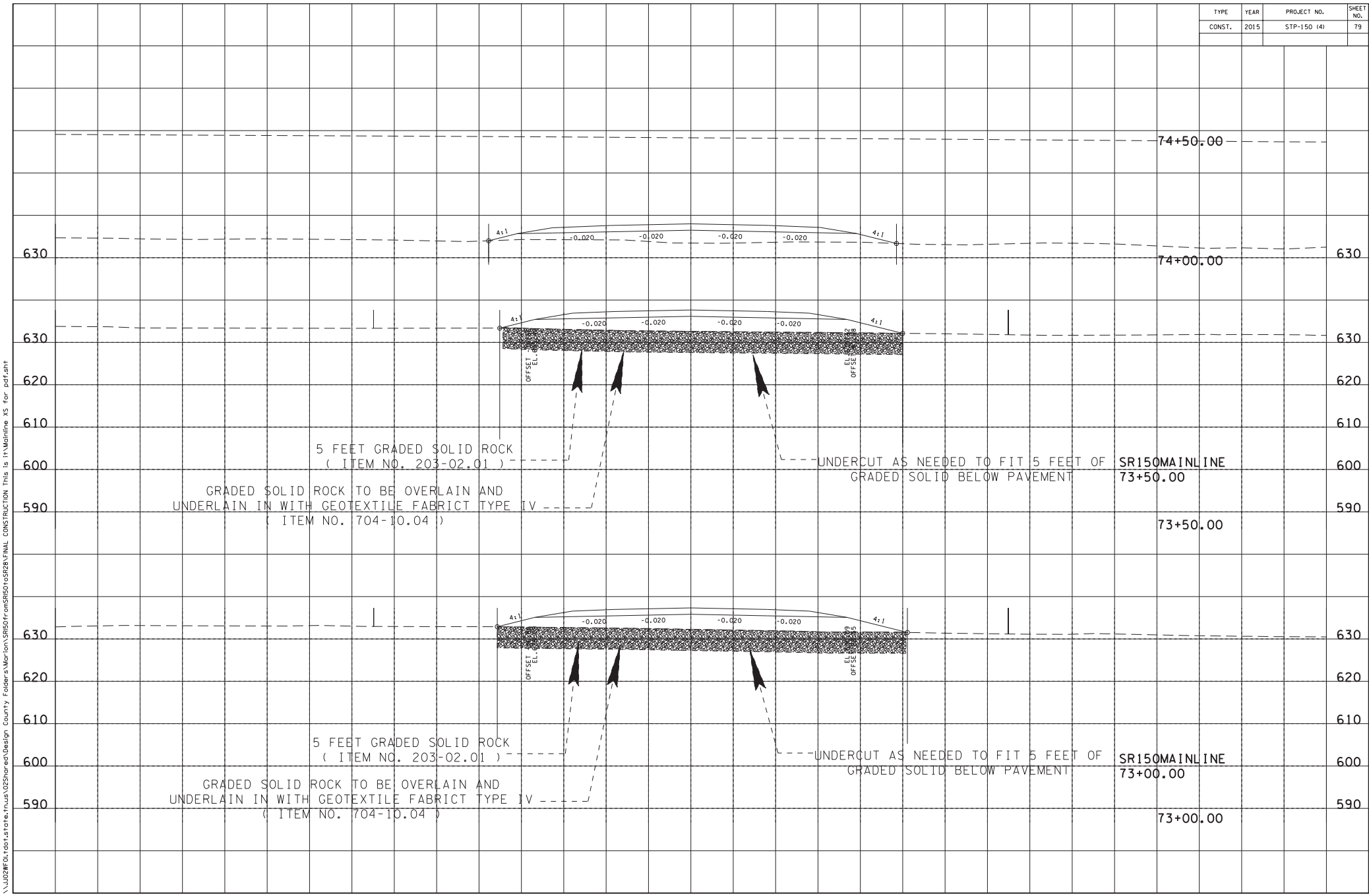
17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	78

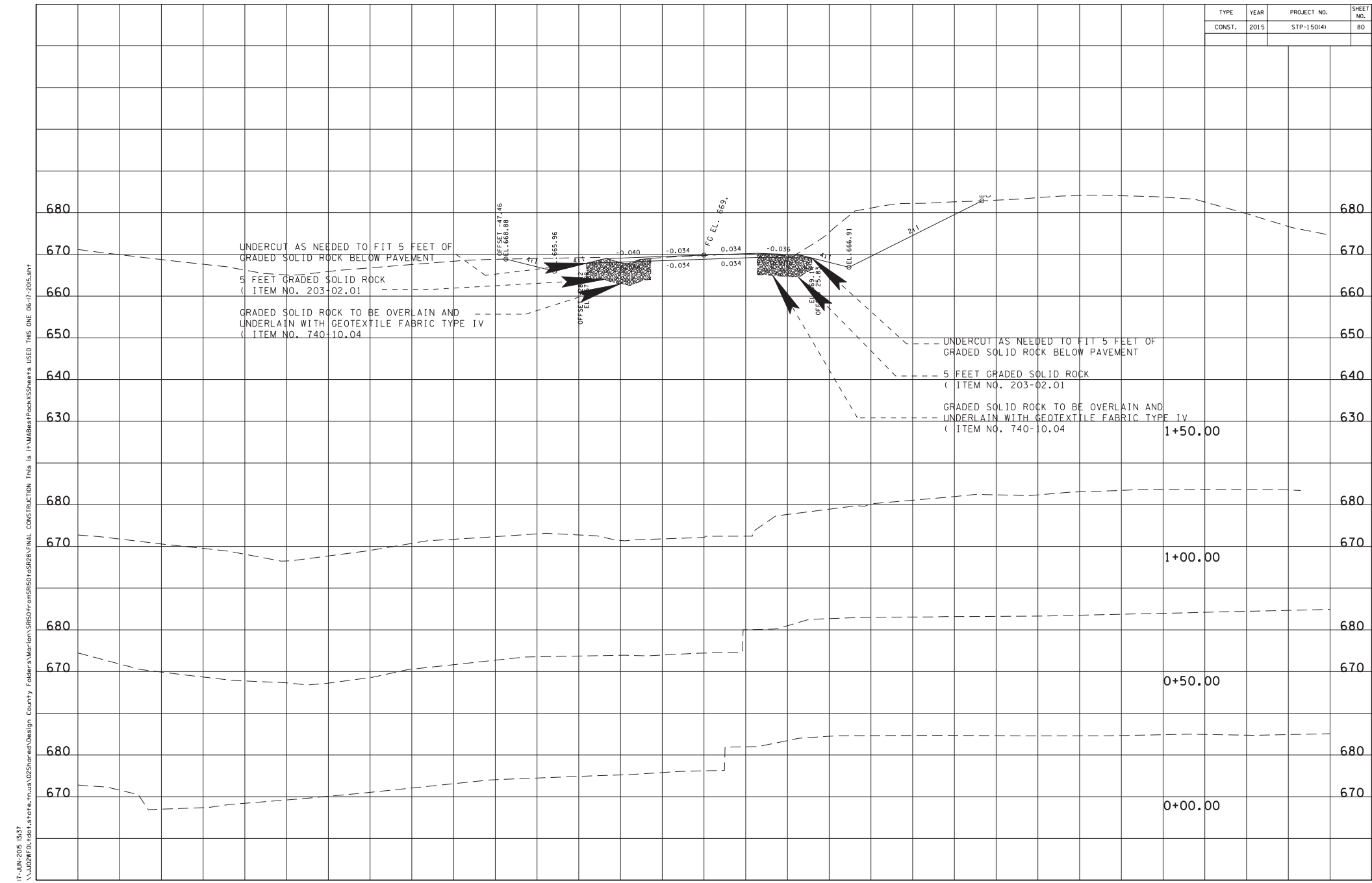


17-JUN-2015 13:20
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Mainline XS for pdf.sht

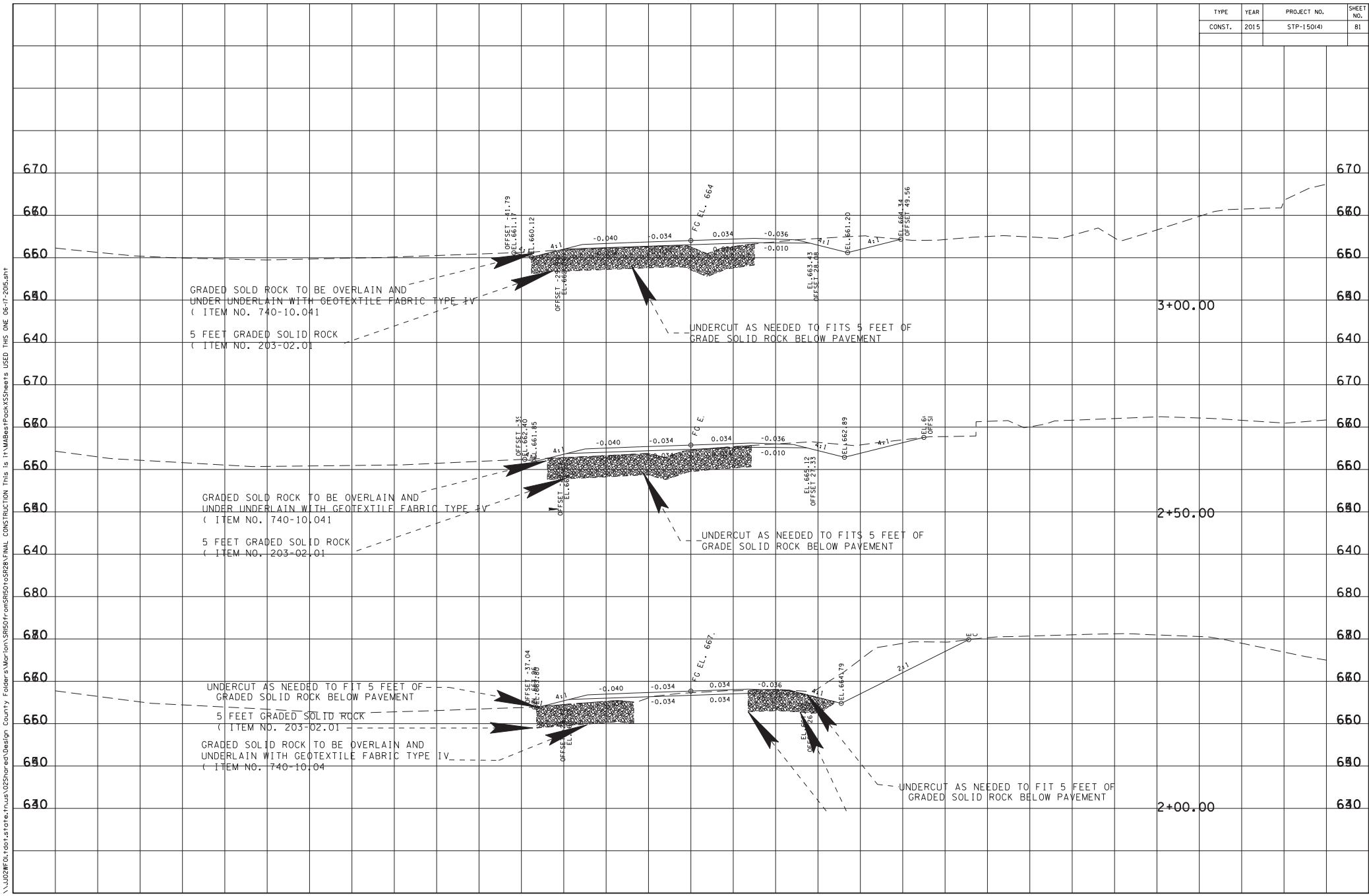
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150 (4)	79



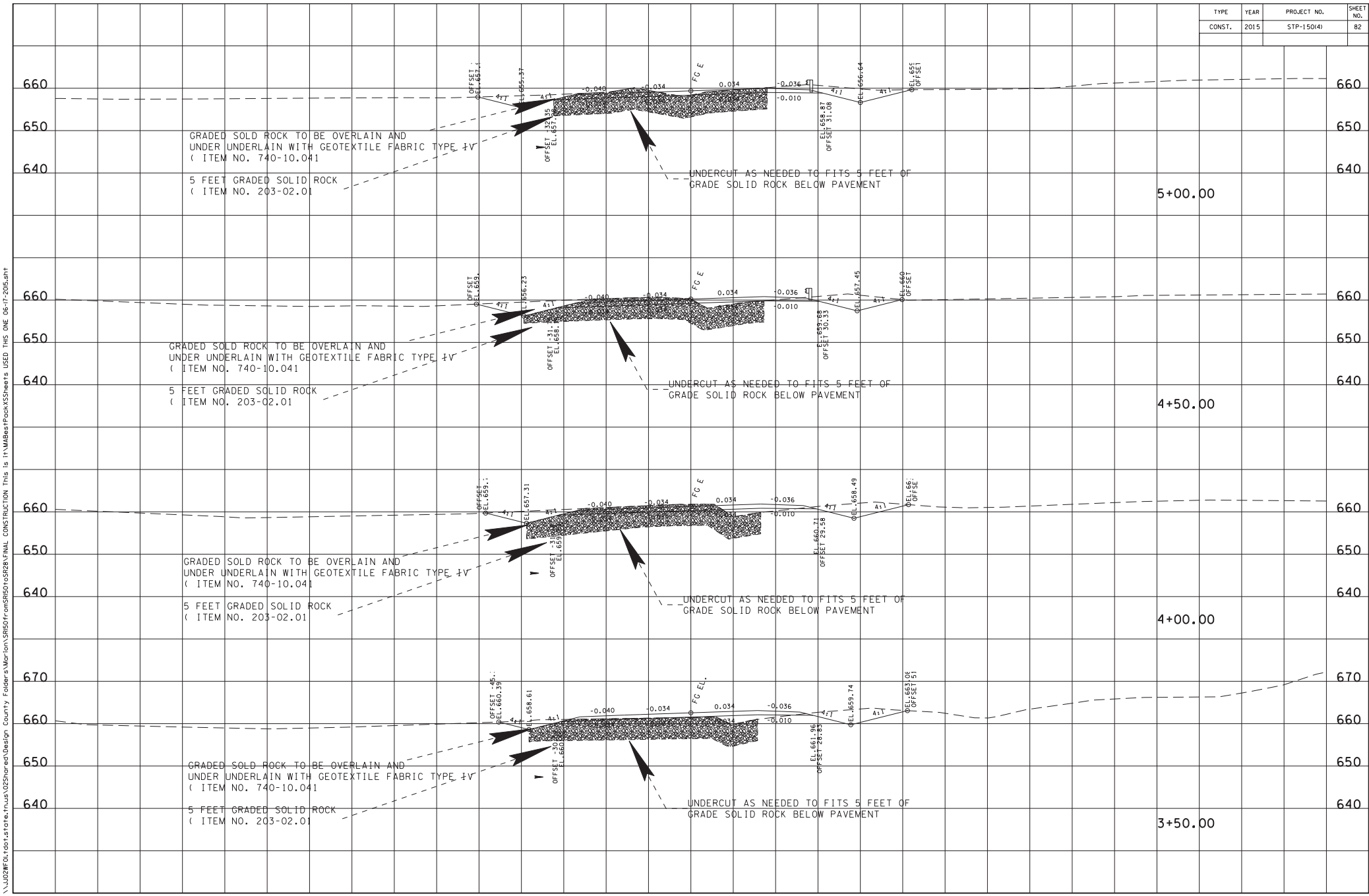
17-JUN-2015 13:20
\\J02WF01.fdot.state.fl.us\J02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This is 1\Mainline XS for pdf.sht



17-JUN-2015 13:37
\\J02WF01.fdot.state.fl.us\02Shared\Design County Folders\Marion\SR50FromSR50toSR28\FINAL CONSTRUCTION This Is I:\MABest\PackXSSheets USED THIS ONE 06-17-2015.sht

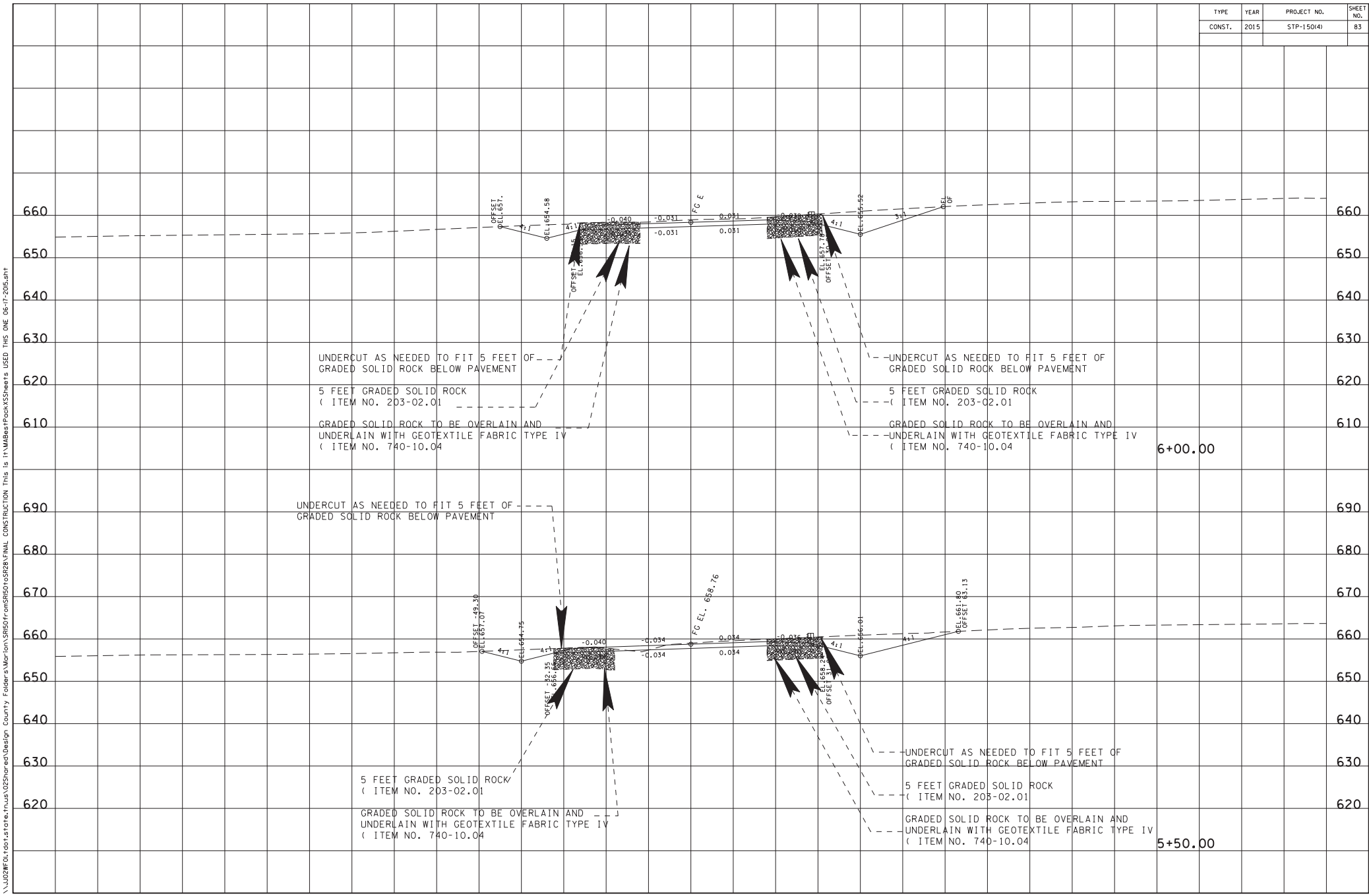

TYPE
YEAR
PROJECT NO.
SHEET NO.
CONST.
2015
STP-150(4)
81
GRADED SOLD ROCK TO BE OVERLAIN AND UNDER UNDERLAIN WITH GEOTEXTILE FABRIC TYPE IV (ITEM NO. 740-10.041
5 FEET GRADED SOLID ROCK (ITEM NO. 203-02.01
UNDERCUT AS NEEDED TO FITS 5 FEET OF GRADE SOLID ROCK BELOW PAVEMENT
3+00.00
GRADED SOLD ROCK TO BE OVERLAIN AND UNDER UNDERLAIN WITH GEOTEXTILE FABRIC TYPE IV
(ITEM NO. 740-10.041
5 FEET GRADED SOLID ROCK (ITEM NO. 203-02.01
UNDERCUT AS NEEDED TO FITS 5 FEET OF GRADE SOLID ROCK BELOW PAVEMENT
2+50.00
UNDERCUT AS NEEDED TO FIT 5 FEET OF GRADED SOLID ROCK BELOW PAVEMENT
5 FEET GRADED SOLID ROCK (ITEM NO. 203-02.01
GRADED SOLID ROCK TO BE OVERLAIN AND UNDERLAIN WITH GEOTEXTILE FABRIC TYPE IV (ITEM NO. 740-10.04
UNDERCUT AS NEEDED TO FIT 5 FEET OF GRADED SOLID ROCK BELOW PAVEMENT
2+00.00
17-JUN-2015 13:37
\\J02WF01.fdot.state.fl.us\02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This Is It\MABestPackXSSheets USED THIS ONE 06-17-2015.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	82



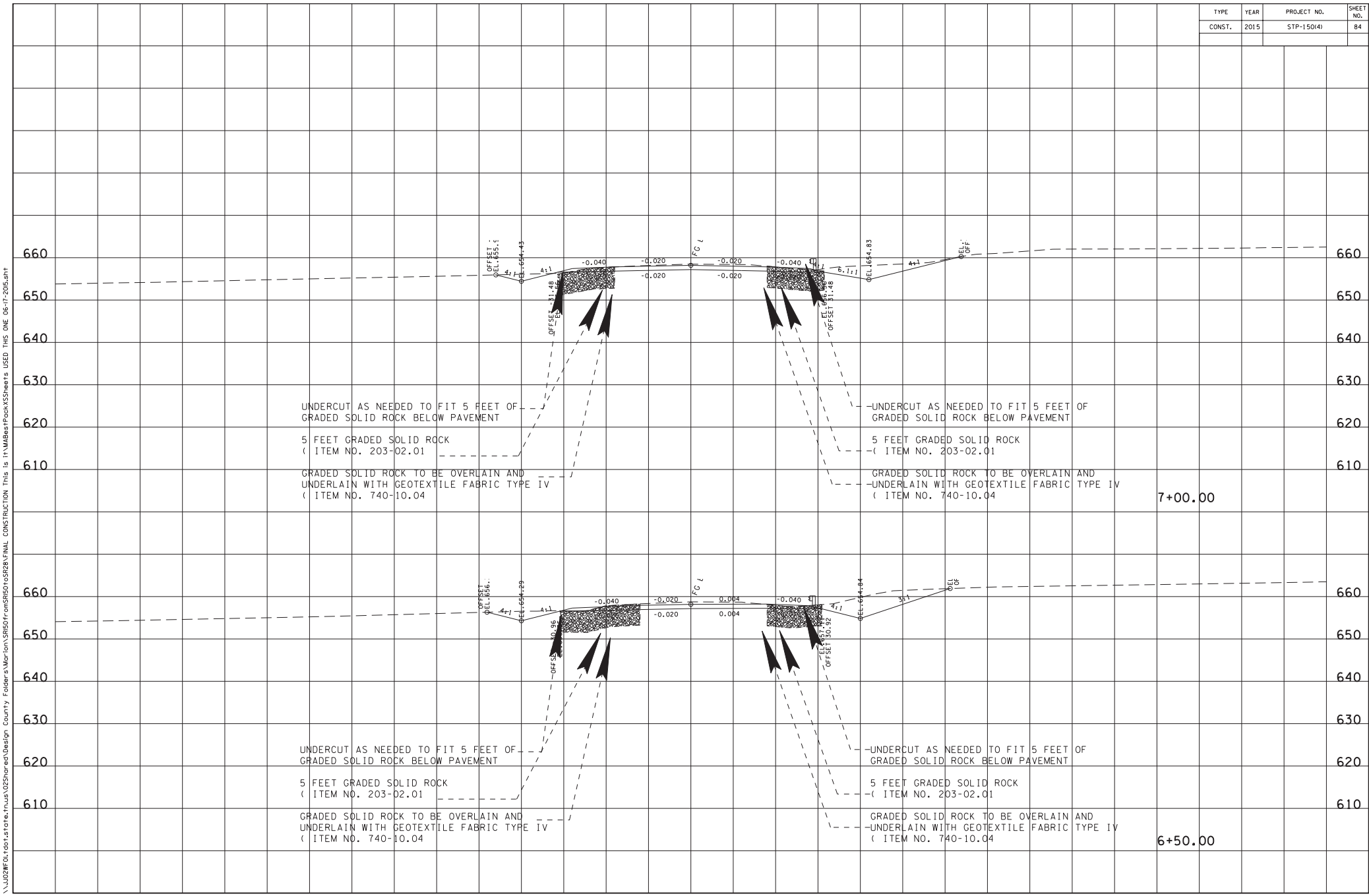
17-JUN-2015 13:37
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\MABestPackXSSheets USED THIS ONE 06-17-2015.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	83



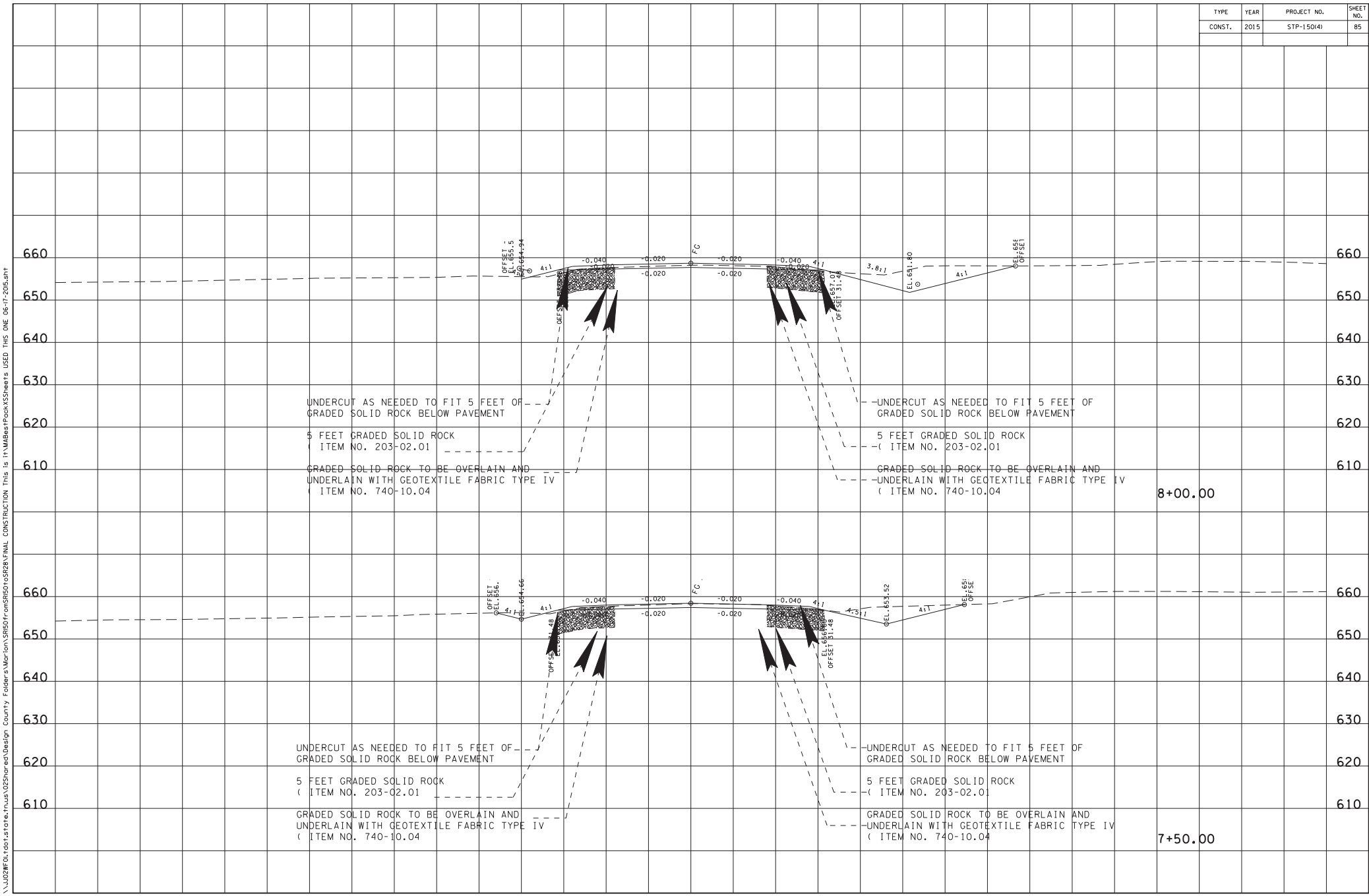
17-JUN-2015 13:37
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\MABestPackXSSheets USED THIS ONE 06-17-2015.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	84



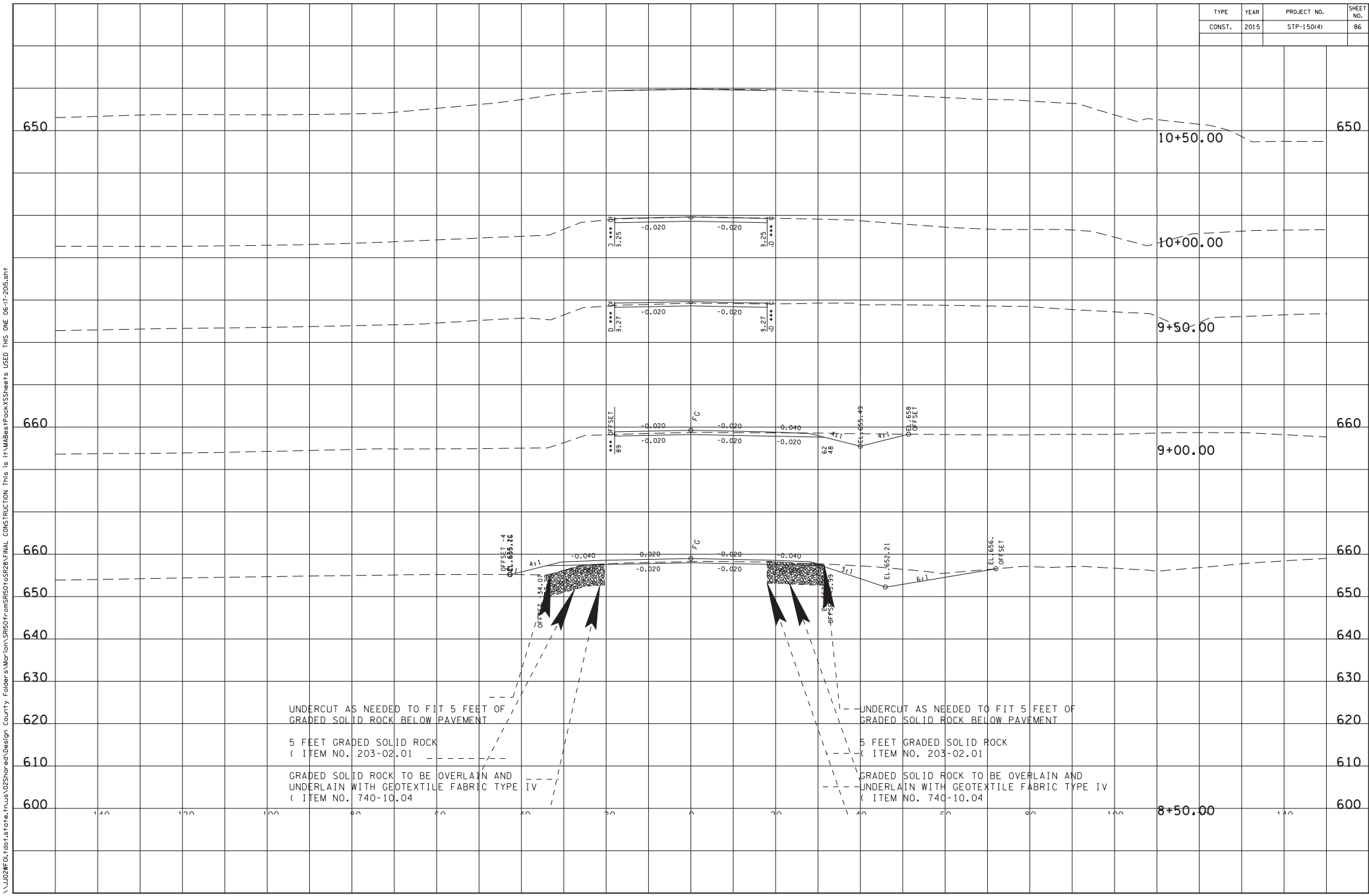
17-JUN-2015 13:37
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\MABestPackXSSheets USED THIS ONE 06-17-2015.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	85

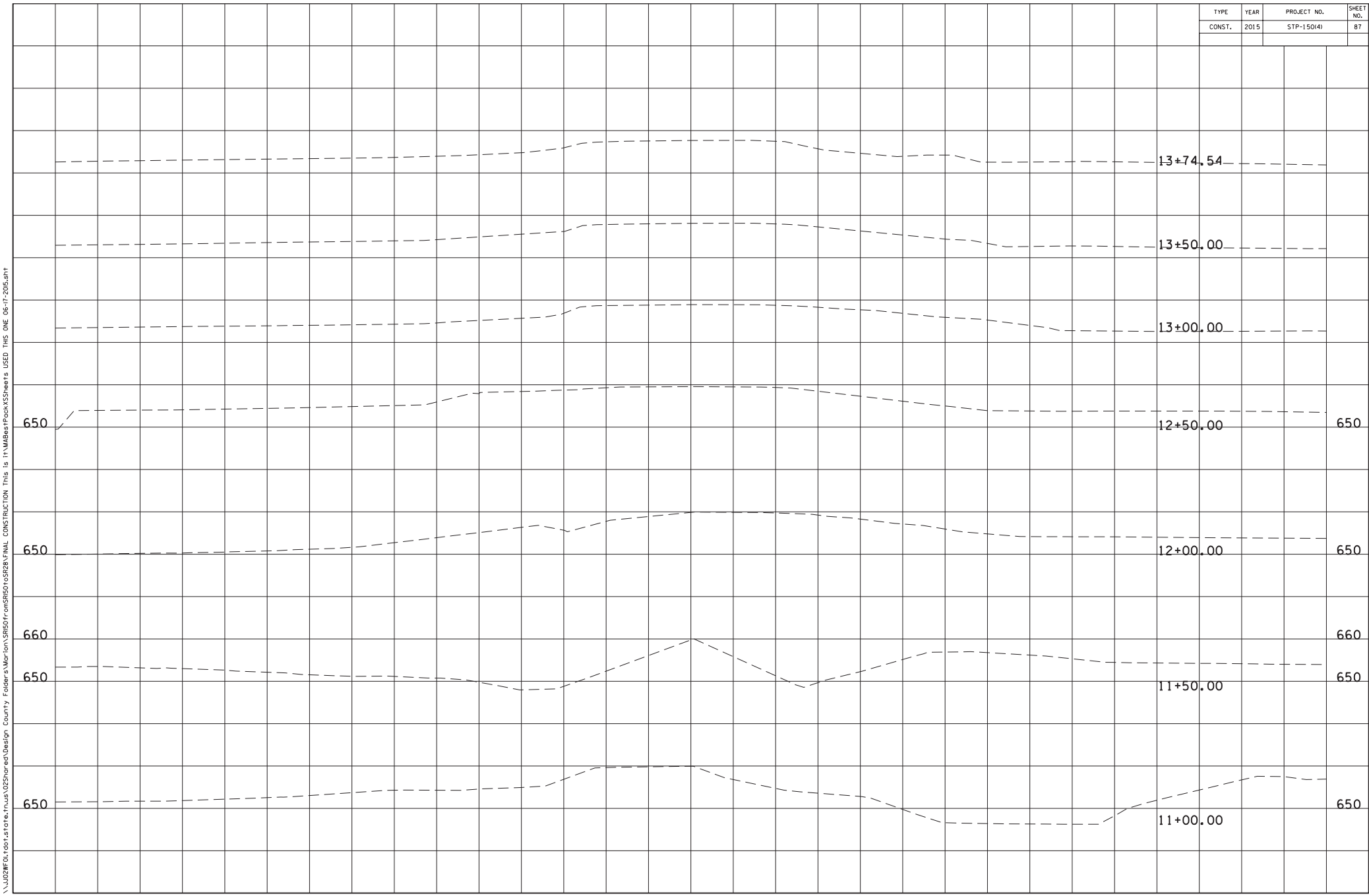


17-JUN-2015 13:37
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\MABestPackXSSheets USED THIS ONE 06-17-2015.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	STP-150(4)	86

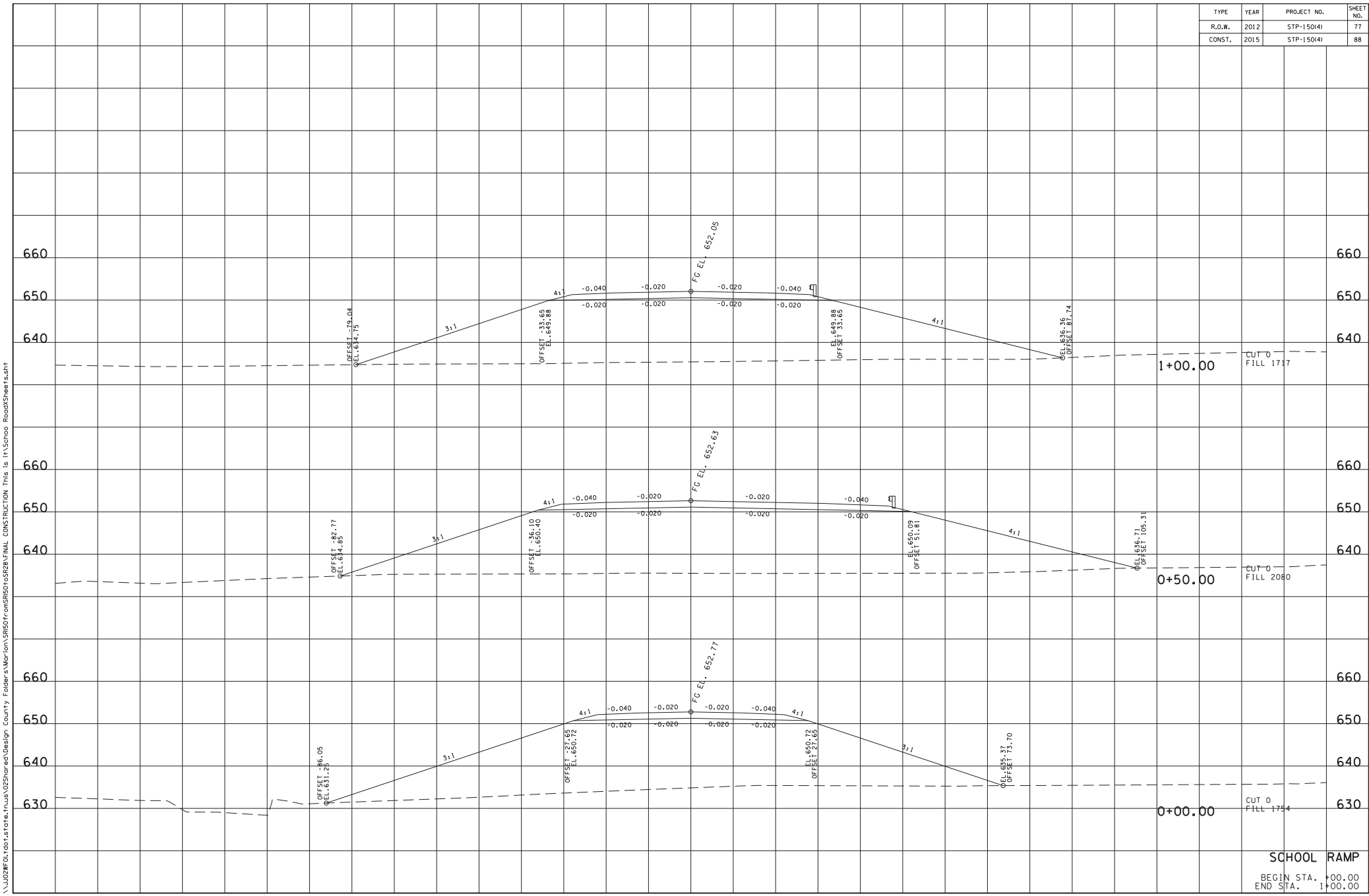


17-JUN-2015 13:37
\\J02WF01.fdot.state.fl.us\02Shared\Design County Folders\Marion\SR50\FromSR50toSR326\FINAL CONSTRUCTION This Is I:\MABest\PackXSSheets USED THIS ONE 06-17-2015.sht



17-JUN-2015 13:37
\\J02WF01.fdot.state.fn.us\02Shared\Design County Folders\Marion\SR50FromSR50toSR28\FINAL CONSTRUCTION This Is It\MABest\PackXSSheets USED THIS ONE 06-17-2015.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	77
CONST.	2015	STP-150(4)	88

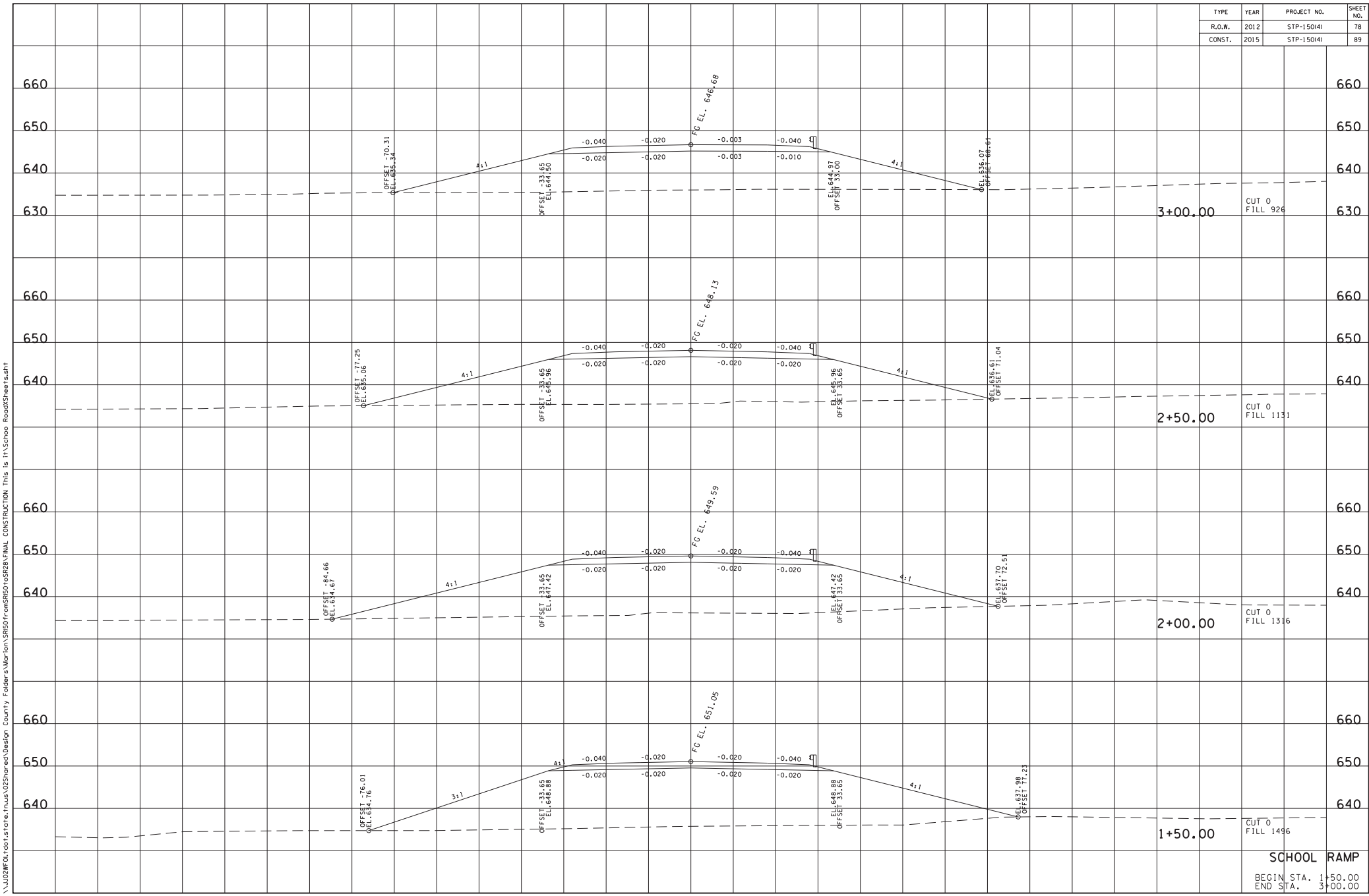


SCHOOL RAMP

BEGIN STA. +00.00
END STA. 1+00.00

17-JUN-2015 13:50
\\J02WF01.fdot.state.fl.us\02Shared\Design County Folders\Marion\SR50FromSR50toSR28\FINAL CONSTRUCTION This Is It\Schoo RoadXSheets.sht

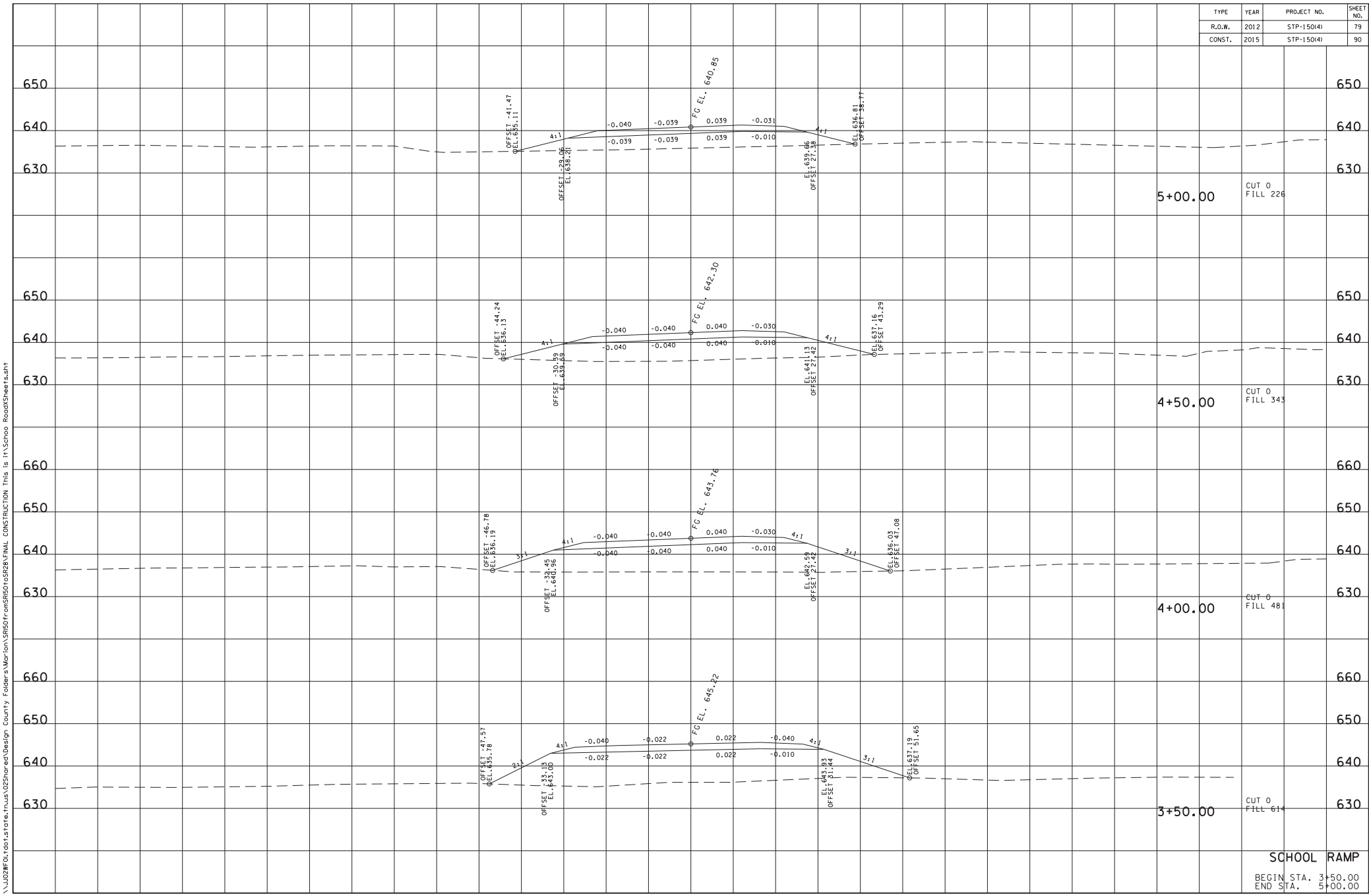
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	78
CONST.	2015	STP-150(4)	89



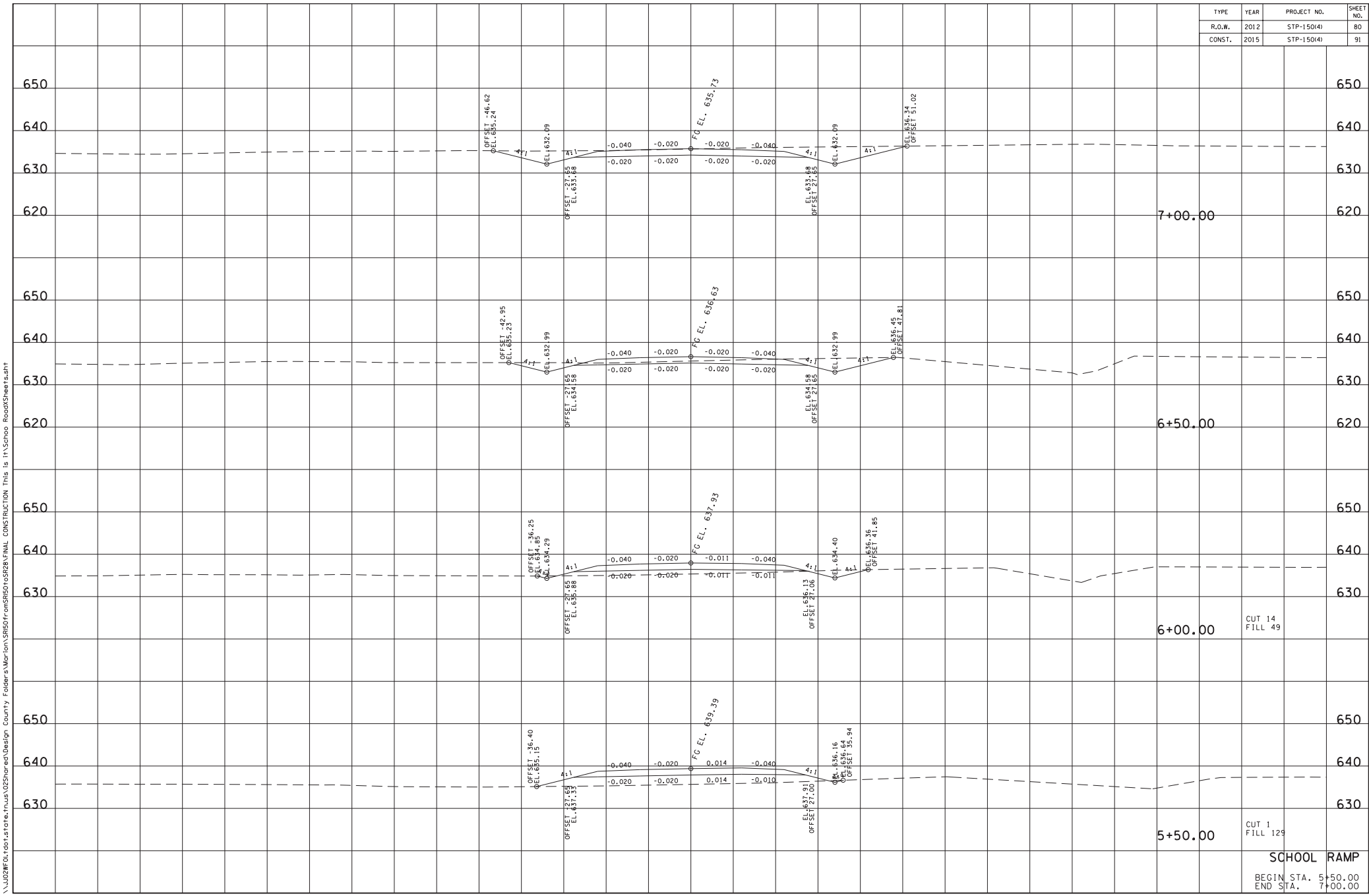
SCHOOL RAMP

BEGIN STA. 1+50.00
END STA. 3+00.00

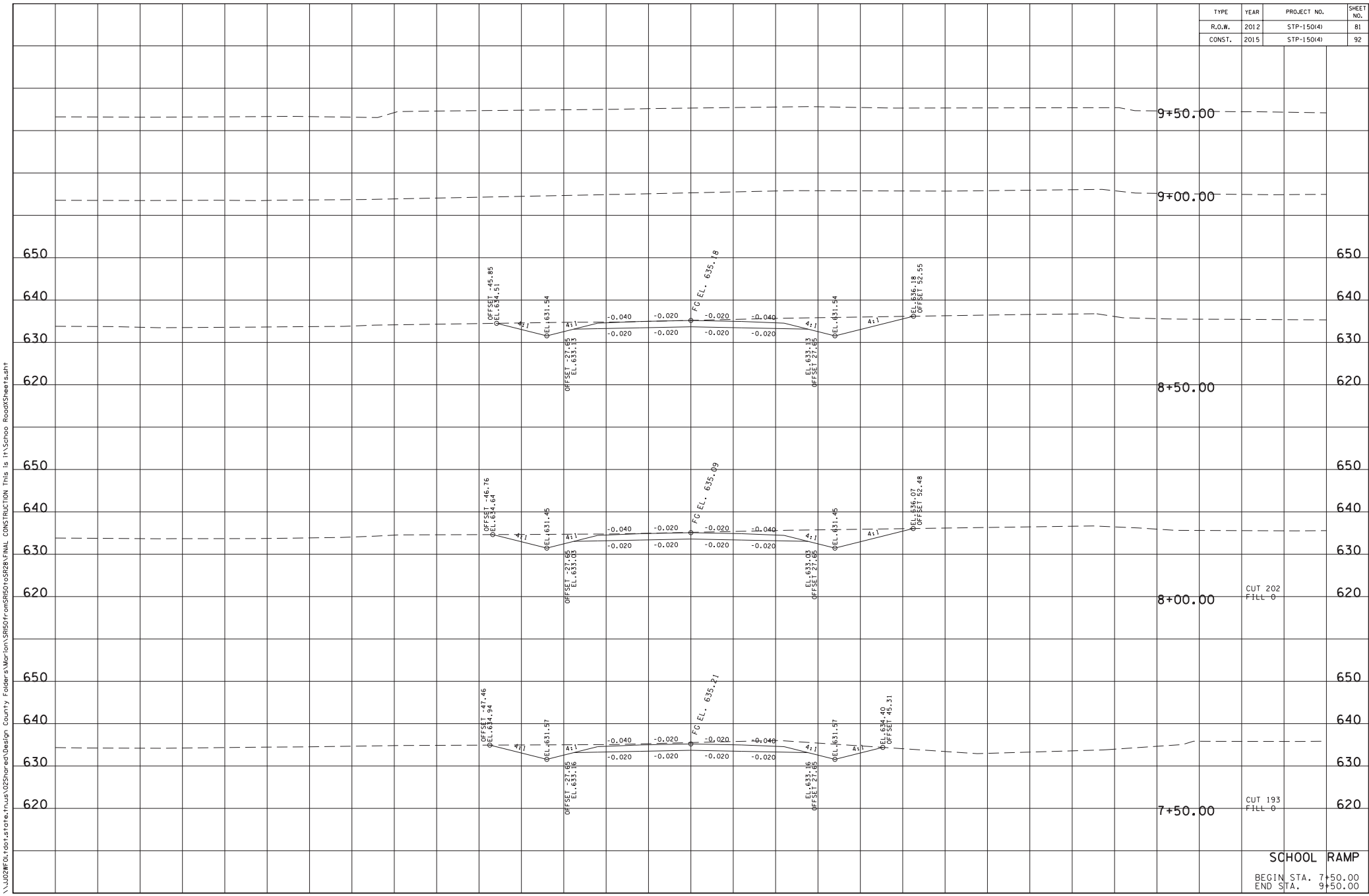
17-JUN-2015 13:50
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\Schoo RoadXSheets.sht



17-JUN-2015 13:50
\\J02WF01.fdot.state.fl.us\J02Shared\Design County Folders\Marion\SR50\fromSR50toSR326\FINAL CONSTRUCTION This Is It\Schoo RoadXSheets.sht

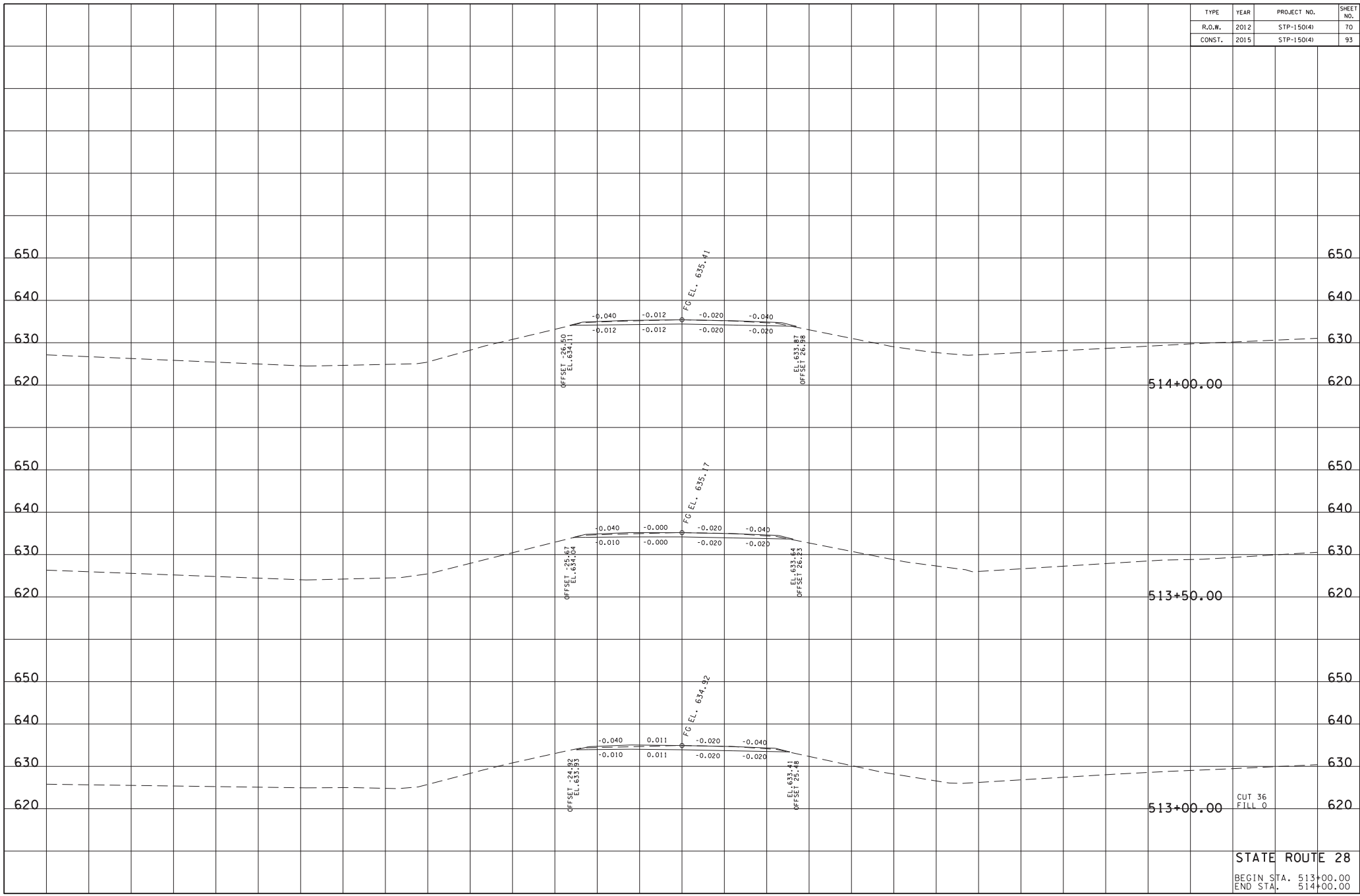


17-JUN-2015 13:50
\\J02WF01.fdot.state.fl.us\02Shared\Design County Folders\Marion\SR50\toSR326\FINAL CONSTRUCTION This Is It\Schoo RoadXSheets.sht



17-JUN-2015 13:50
\\J02WF0L.fdot.state.fl.us\02Shared\Design County Folders\Marion\SR50\fromSR50toSR28\FINAL CONSTRUCTION This Is It\Schoo RoadXSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	70
CONST.	2015	STP-150(4)	93

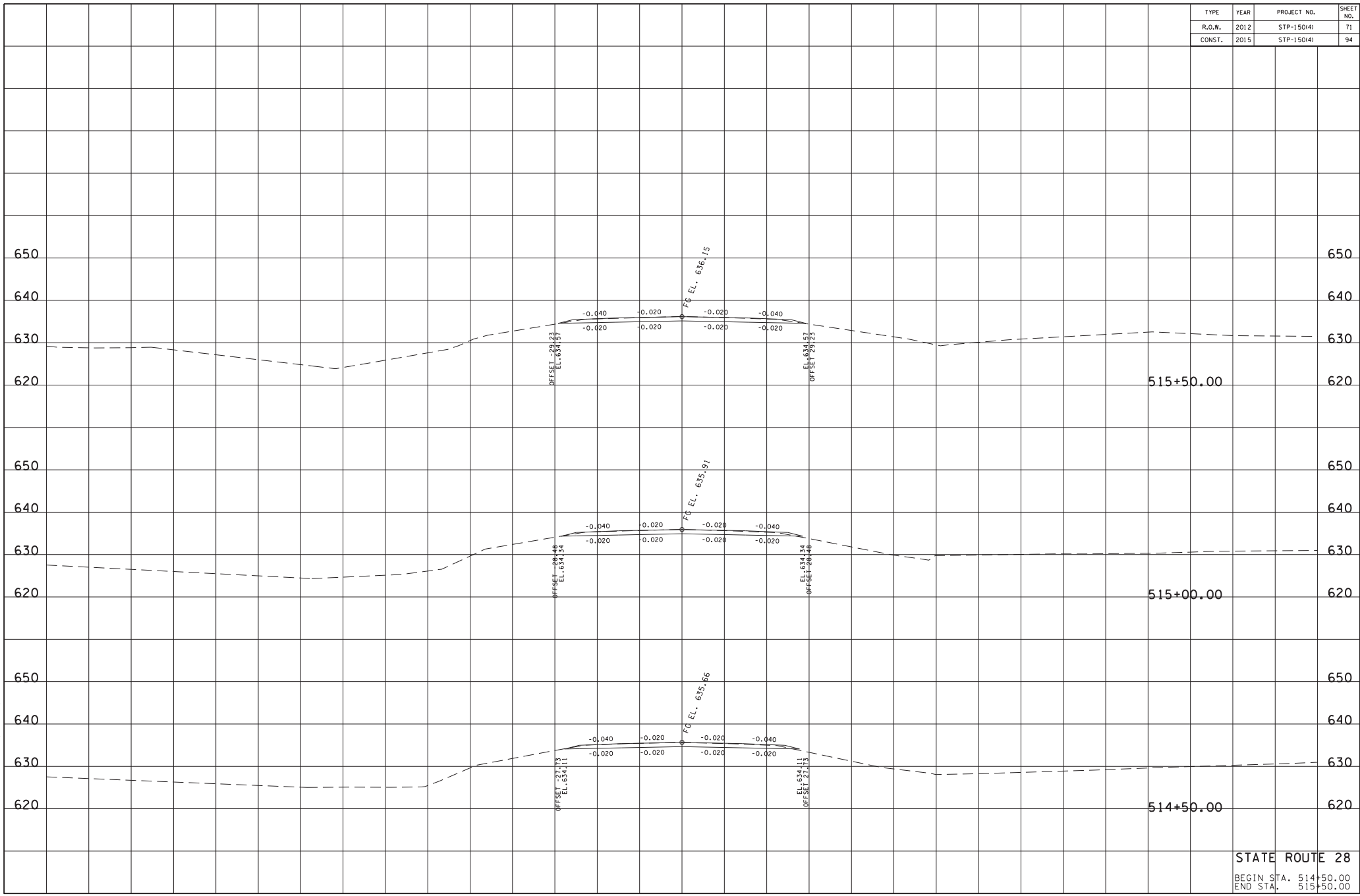


STATE ROUTE 28

BEGIN STA. 513+00.00
END STA. 514+00.00

17-JUN-2015 13:45
\\JO2WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This Is It\NewMA28-01XsectionsSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	71
CONST.	2015	STP-150(4)	94

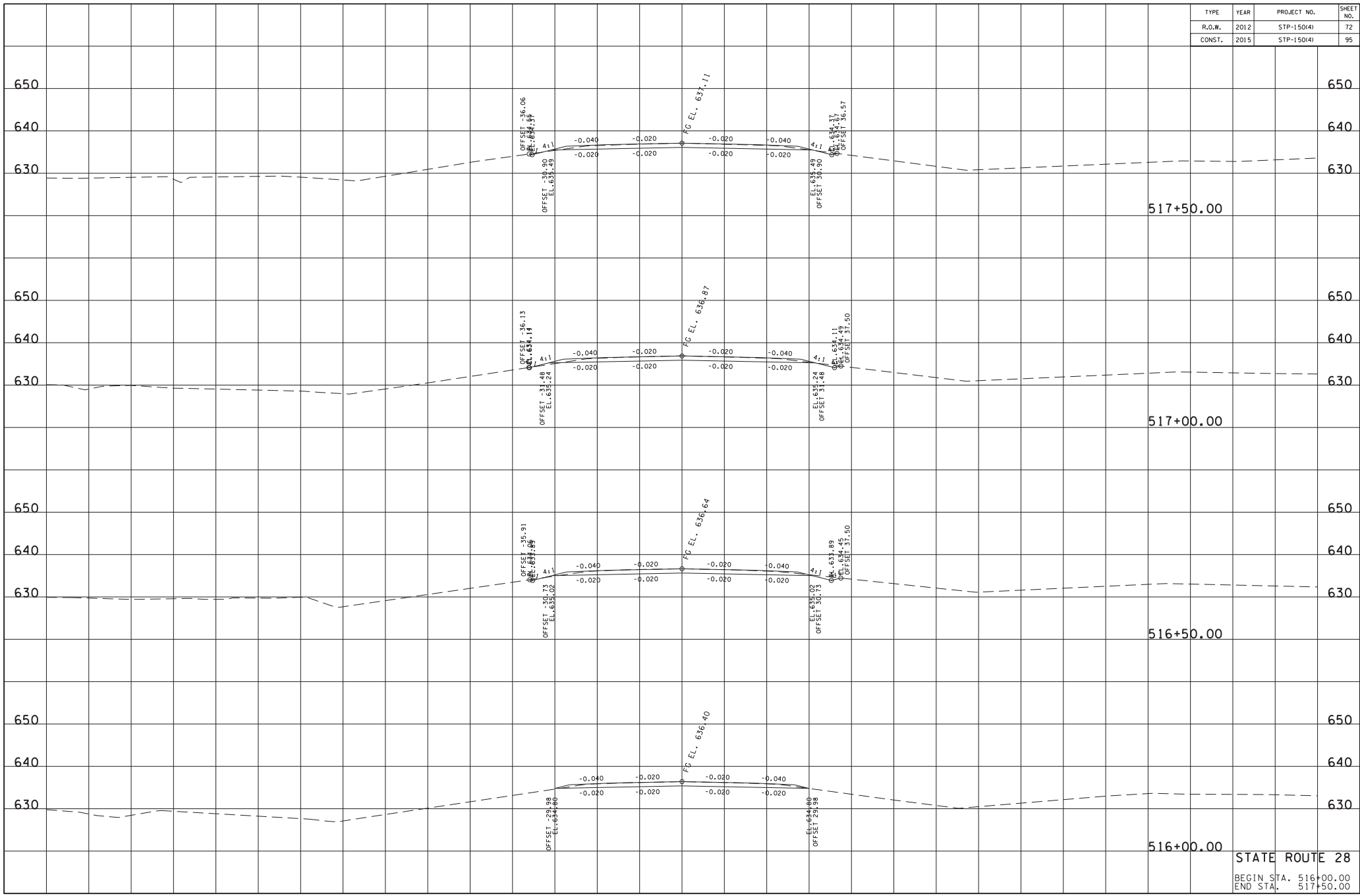


STATE ROUTE 28

BEGIN STA. 514+50.00
END STA. 515+50.00

17-JUN-2015 13:45
\\JO2WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This is it\NewMA28-01XsectionsSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	72
CONST.	2015	STP-150(4)	95

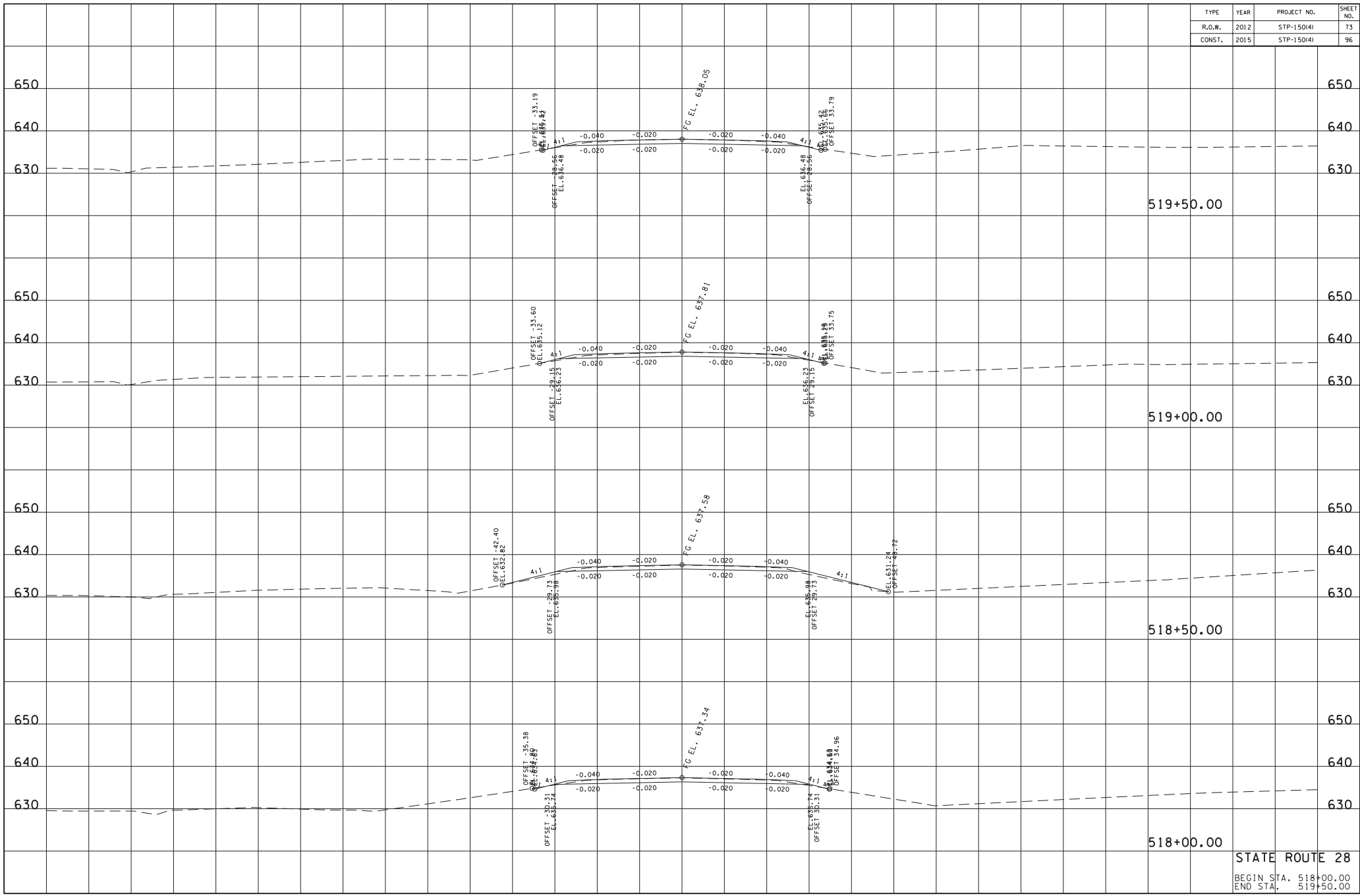


STATE ROUTE 28

BEGIN STA. 516+00.00
END STA. 517+50.00

17-JUN-2015 13:45
\\JO2WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This Is It\NewMA28-01XsectionsSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	73
CONST.	2015	STP-150(4)	96

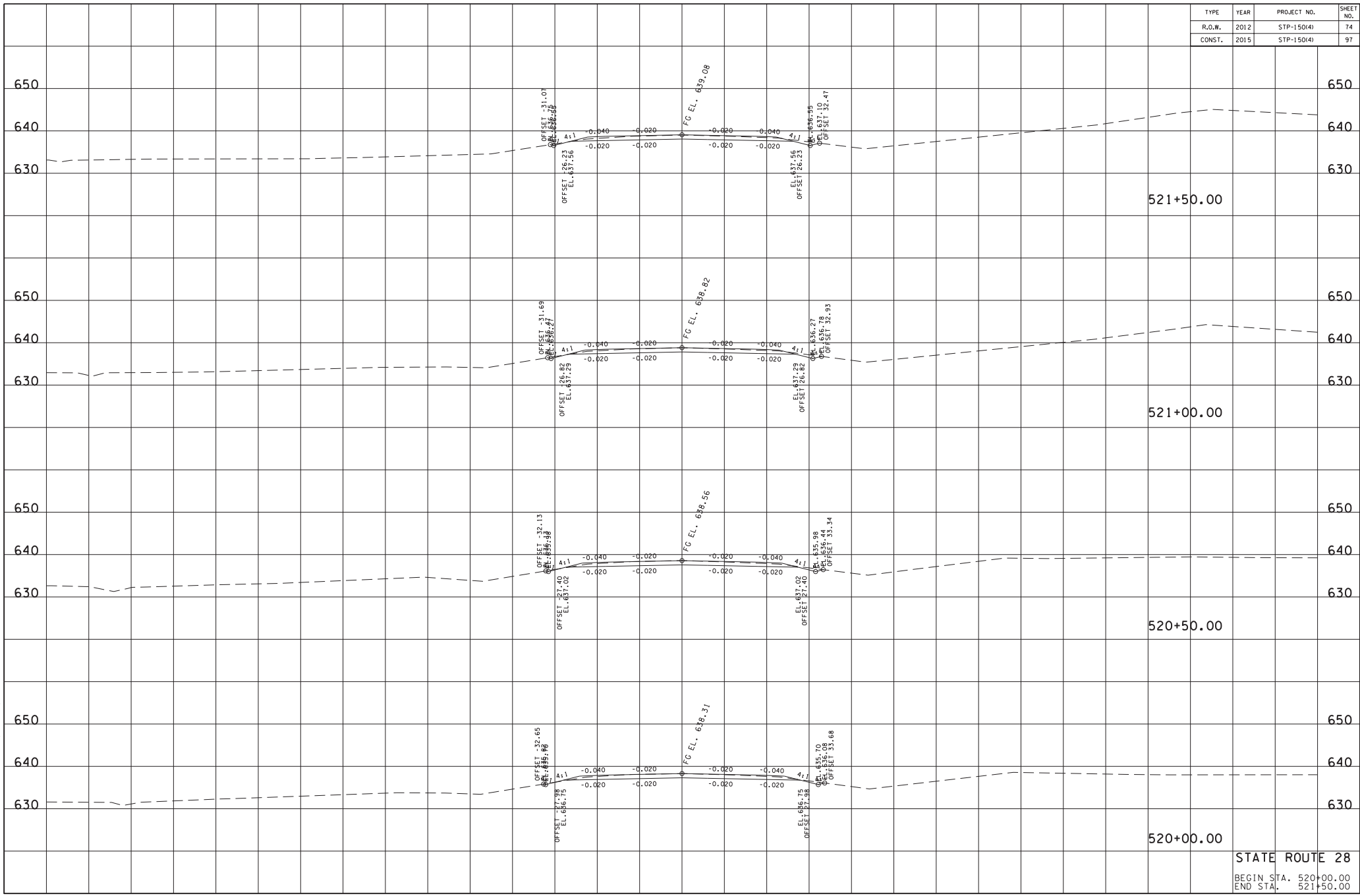


STATE ROUTE 28

BEGIN STA. 518+00.00
END STA. 519+50.00

17-JUN-2015 13:45
\\JO2WF0LTdot1.state.nus\02Shared\Design County Folders\Marion\SR50fromSR501toSR928\FINAL CONSTRUCTION This Is It\NewMA28-01\sections\Sheet5.sht

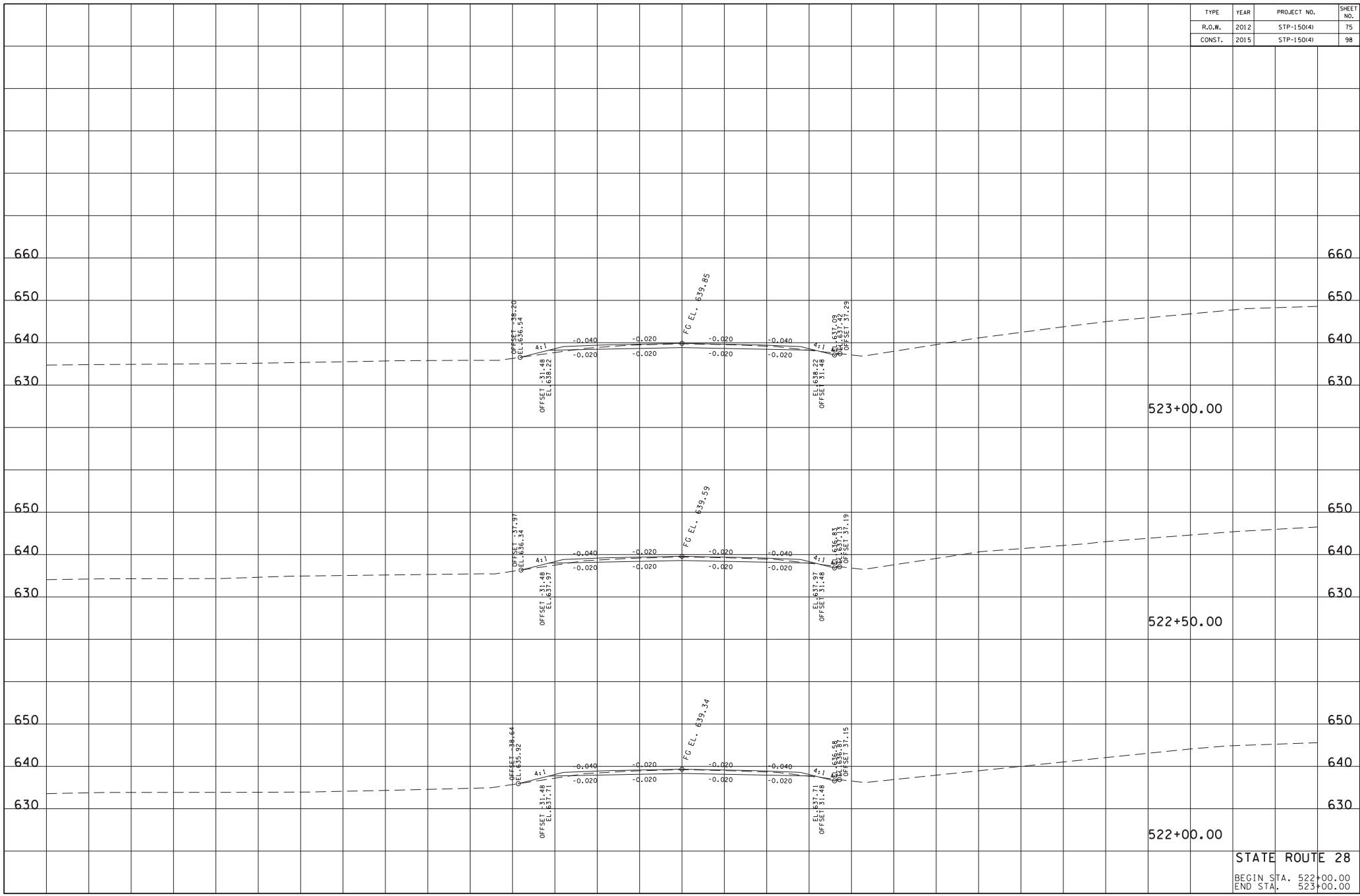
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	74
CONST.	2015	STP-150(4)	97



STATE ROUTE 28

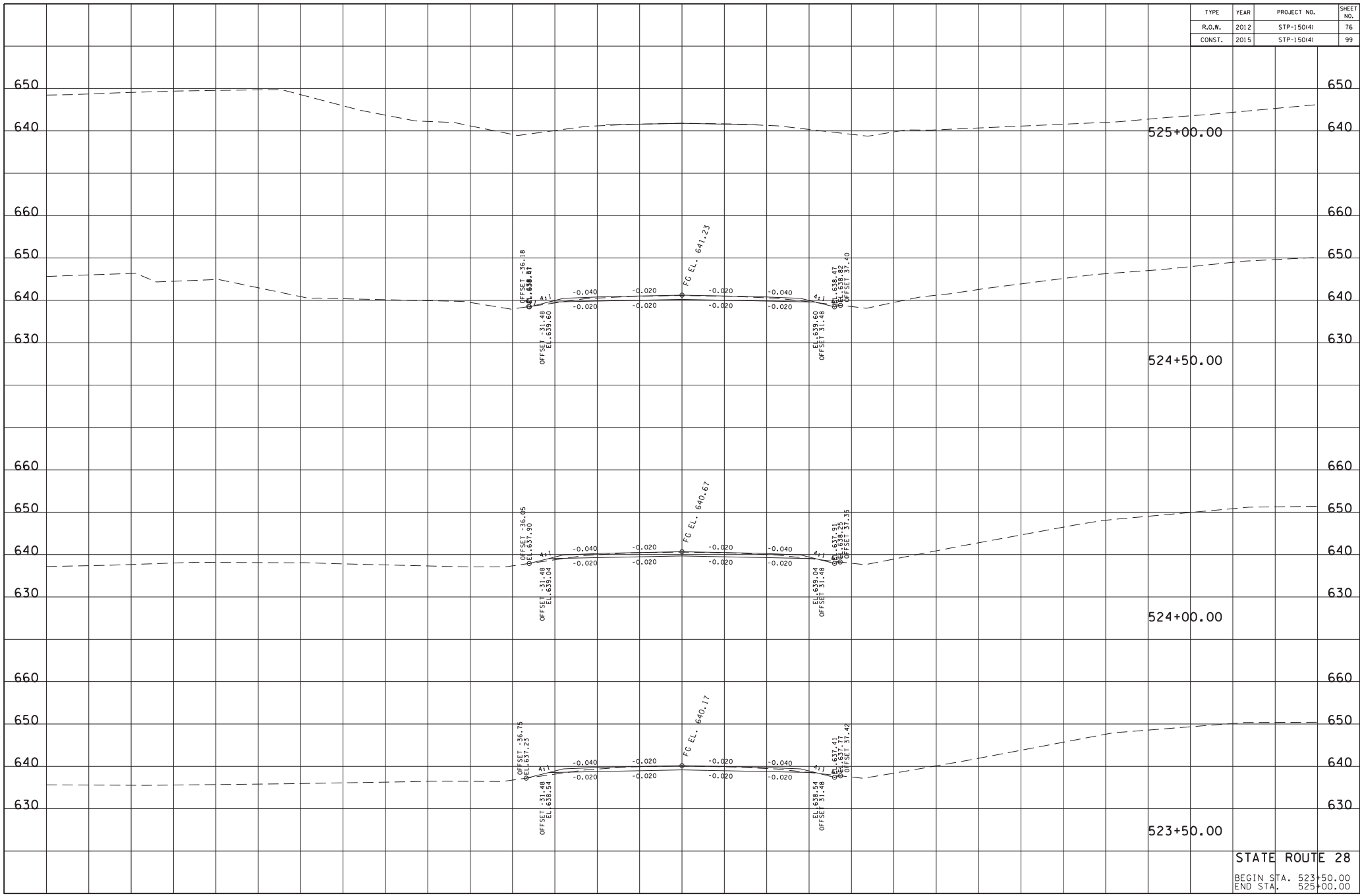
BEGIN STA. 520+00.00
END STA. 521+50.00

17-JUN-2015 13:45
\\JJ02WF01.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This Is It\NewMA28-01XsectionsSheets.sht



17-JUN-2015 13:45
\\JO2WF0LTdot.state.nus\02Shared\Design County Folders\Marion\SR50fromSR50toSR28\FINAL CONSTRUCTION This Is It\NewMA28-OIXsectionsSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-150(4)	76
CONST.	2015	STP-150(4)	99



STATE ROUTE 28

BEGIN STA. 523+50.00
END STA. 525+00.00

17-JUN-2015 13:45
\\JO2WFO1.tdot.state.tn.us\02Shared\Design County Folders\Marion\SR150fromSR150toSR28\FINAL CONSTRUCTION This Is It\NewMA28-01XsectionsSheets.sht