Index Of Sheets

SEE SHEET 1A FOR INDEX

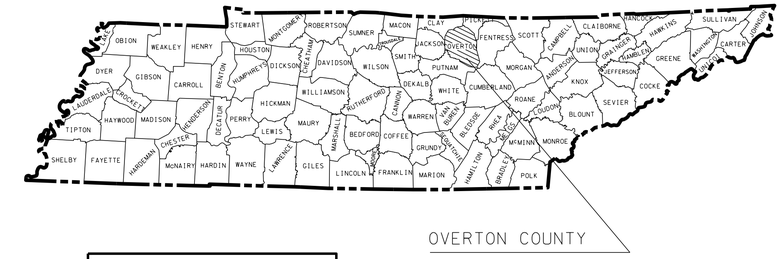
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.	BR-STP-293(11)	
STATE PROJ. NO.	67020-3214-94	

OVERTON COUNTY

SR-293
BRIDGE OVER BRANCH, L.M. 5.34
CONSTRUCTION

STATE HIGHWAY NO. 293 F.A.H.S. NO. N/A



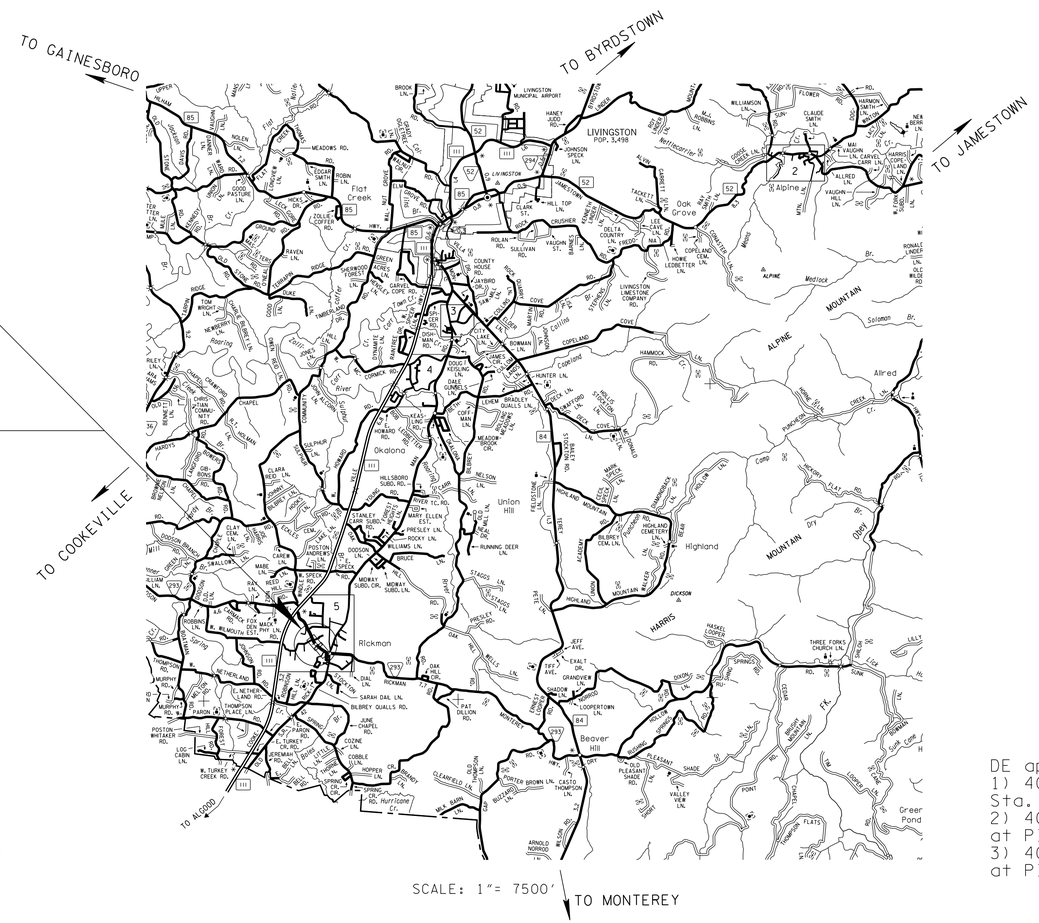
ROAD TO BE CLOSED
DURING CONSTRUCTION

NO EXCLUSIONS
NO EQUATIONS

67020-3214-94 (CONST.)
BEGIN PROJECT NO. BR-STP-293(11)
STA. 36+96.79
N 703968.8683
E 2151300.4701

67020-3214-94 (CONST.)
END PROJECT NO. BR-STP-293(11)
STA. 43+14.41
N 703522.6354
E 2151723.6216

N



SCALE: 1"= 7500'

UNOFFICIAL SET
NOT FOR BIDDING

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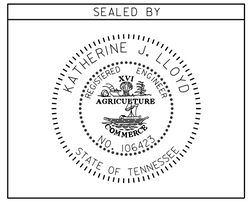

APPROVED: Paul D. Degges
PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

DE approved 7/27/14
1) 40mph vertical curve at VPI Sta. 39+87.19 instead of 50mph
2) 40mph superelevation for curve at PI 37+05.47 instead of 50mph
3) 40mph superelevation for curve at PI 40+78.54 instead of 50mph

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.

ROADWAY LENGTH	0.116 MILES
BRIDGE LENGTH	0.000 MILES
* BOX BRIDGE LENGTH	0.008 MILES
PROJECT LENGTH	0.116 MILES

* Box Bridge Length not included in project length.

TRAFFIC DATA	
ADT (2015)	2520
ADT (2035)	3540
DHV (2035)	389
D	65 - 35
T (ADT)	3 %
T (DHV)	2 %
V	50 MPH

Survey Date:
08-17-2012
11-06-2012
04-02-2013

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

TDOT DESIGN SUPERVISOR 2 ROBERT BRAUN P.E.

DESIGNER FRANK RAINEAR CHECKED BY Aso Hawrami

P.E. NO. 67020-1214-94 (DESIGN)

PIN NO. 115690.00

24-MAR-2015 09:07
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TENN.	YEAR	SHEET NO.
	2013	1
FED. AID PROJ. NO.	BR-STP-293(11)	
STATE PROJ. NO.	67020-2214-94	

REV. 5-13-14: CHANGED END PROJ. LIMIT AND PROJECT LENGTH. ADDED SURVEY UPDATES.

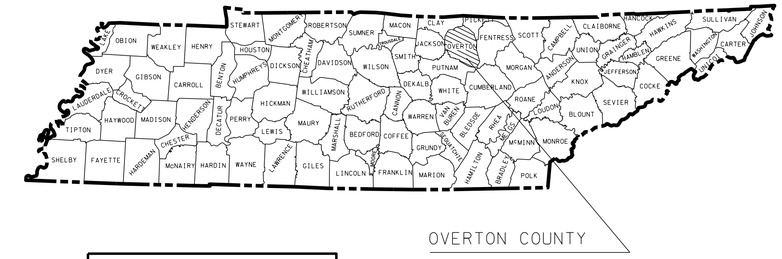
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

OVERTON COUNTY

SR-293
BRIDGE OVER BRANCH, L.M. 5.34

R.O.W.

STATE HIGHWAY NO. 293 F.A.H.S. NO. N/A



NO EXCLUSIONS
NO EQUATIONS

Index Of Sheets

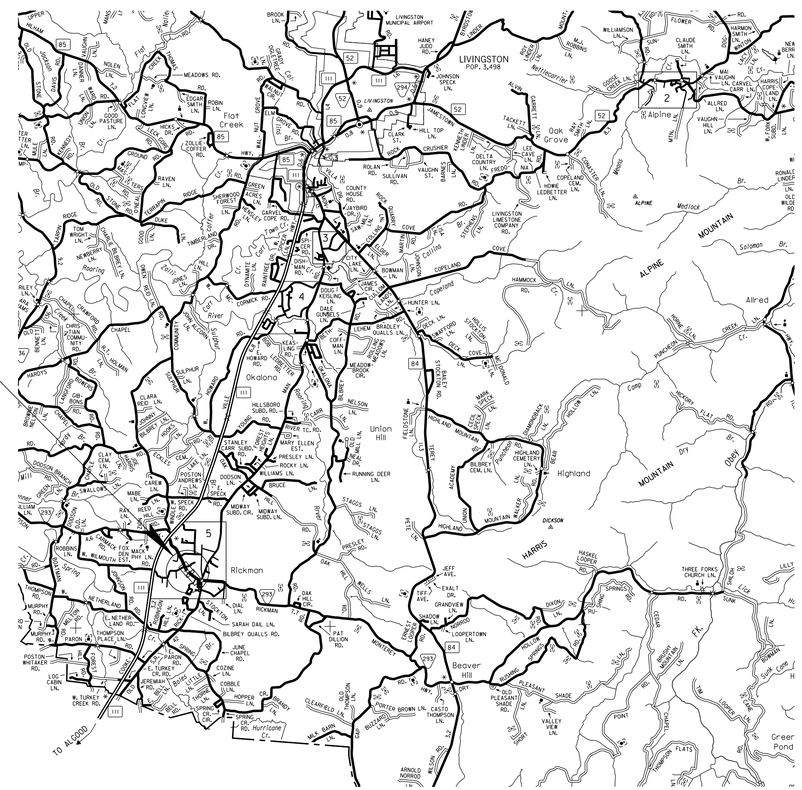
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS
3	R.O.W. ACQUISITION TABLE
3A	PROPERTY MAP
4 - 5	PRESENT LAYOUT SHEETS
4A-5A	PROPOSED R.O.W. LAYOUT SHEETS
4B-5B	PROPOSED LAYOUT SHEETS
4C	MAINLINE PROFILE
6	PRIVATE DRIVE PROFILES
7-7A	DRAINAGE MAP
8-8D	EROSION PREVENTION AND SEDIMENT CONTROL PLAN
9-9B	TRAFFIC CONTROL PLAN
10-10A	SOILS
11-15	MAIN LINE CROSS-SECTIONS

NOTE:
ROAD TO BE CLOSED
DURING CONSTRUCTION

67020-2214-94 (R.O.W.)
BEGIN PROJECT NO. BR-STP-293(11)
STA. 36+80.08
N 703983.2247
E 2151291.9217

67020-2214-94 (R.O.W.)
END PROJECT NO. BR-STP-293(11)
STA. 43+07.99
N 703526.7468
E 2151718.6888

N



SCALE: 1"= 7500'

R.O.W. LENGTH 0.118 MILES

R.O.W. PLANS

SEALED BY

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

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

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT DESIGN MANAGER 1 SHANE HESTER P.E.

DESIGNER FRANK RAINEAR CHECKED BY CINDY WILLIAMS

P.E. NO. 67020-1214-94 (DESIGN)

PIN NO. 115690.00

TRAFFIC DATA	
ADT (2014)	2520
ADT (2034)	3540
DHV (2034)	389
D	65 - 35
T (ADT)	3 %
T (DHV)	2 %
V	40 MPH

Survey Date:
8-17-2012
11-06-2012
4-02-2013
5-06-2014

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-293(11)	1A

INDEX STANDARD ROADWAY DRAWINGS

SHEET NAME	SHEET NO.
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ESTIMATED UTILITIES QUANTITIES	2A
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GENERAL NOTES AND SPECIAL NOTES	2E
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UTILITIES INDEX	U1-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX	S-1

STANDARD BRIDGE DRAWINGS

BRIDGE APPURTENANCES ENGLISH (NEW STRUCTURES)

DWG. NO.	REV.	DESCRIPTION
STD-10-1	4-08-05	MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS

BRIDGE APPURTENANCES ENGLISH (BOX CULVERTS)

DWG. NO.	REV.	DESCRIPTION
STD-15-9	2-28-03	TYPICAL WINGWALL DETAILS AND NOTES

BRIDGE APPURTENANCES ENGLISH (LRFD BOX CULVERTS)

DWG. NO	REV.	DESCRIPTION
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTION AND DETAILS
STD-17-6		TYPICAL ELEVATIONS
STD-17-7		CURB, RAIL & EDGE BEAM DETAILS - SKEW NOT LESS THAN 45 DEG
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16		WINGWALL DESIGN SECTION
STD-17-17		BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-17-24		WARPED SLOPE DETAIL
STD-17-100		BOX BRIDGE, 3 BARRELS AT 14', CLEAR HTS. 8' - 11', 0 - 60' FILL

ROADWAY DESIGN STANDARDS

DWG. NO	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-2	10-15-02	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS

ROADWAY AND PAVEMENT APPURTENANCES

DWG. NO	REV.	DESCRIPTION
RP-D-15	07-15-08	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS

SAFETY APPURTENANCES AND FENCE

DWG. NO	REV.	DESCRIPTION
S-CZ-1		CLEAR ZONE CRITERIA
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-PL-6	12-01-14	SAFETY PLAN SAFETY HARDWARE PLACEMENT
S-GR31-1	12-01-14	W-BEAM GUARDRAIL
S-GRS-2		SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRT-2	11-03-14	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL

TRAFFIC CONTROL APPURTENANCES

DWG. NO	REV.	DESCRIPTION
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-16	01-30-15	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS

EROSION PREVENTION AND SEDIMENT CONTROL

DWG. NO	REV.	DESCRIPTION
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-37	06-10-14	SEDIMENT TUBE

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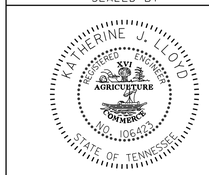

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

24-MAR-2015 09:07
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-293(11)	1B

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDHZ001	Environmental Division, Hazardous Mateials	An Asbestos Containing Material (ACM) Survey was conducted on Bridge # 67F00150005, SR-293 over Branch. LM 5.34 (67-SR293-5.34). No ACM was detected. No special accommodations for demolition and waste disposal are anticipated for this bridge and the material can be deposited in a C&D landfill. Please note that even though the samples were found to contain no asbestos, the demolition contractor is required to submit the National Emission Standards for Hazardous Air Pollutants standard 10-day notice of demolition to the Tennessee Division of Air Pollution Control.	SR-293 over Branch LM 5.34

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

18-MAY-2015 08:59
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-293(11)	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(18)	202-04.01	REMOVAL OF STRUCTURES (21' x 40' BRIDGE, STA. 39+24)	LS	1
	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	545
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	766
(13)	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	74
	203-06	WATER	M.G.	15
	204-08	FOUNDATION FILL MATERIAL	C.Y.	87
	209-05	SEDIMENT REMOVAL	C.Y.	45
(1)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	552
(1)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	173
(1)	209-08.07	ROCK CHECK DAM PER	EACH	13
(1)	209-09.02	TEMPORARY SEDIMENT FILTER BAG (14'6" X 2'0" X 13'3")	BAG	2
(1)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	92
(10)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1758
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	720
(1)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	10
	307-01.08	ASPHALT CONC MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	184
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	4
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	13
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	3
	403-02	ASPHALT CEMENT FOR TACK COAT (TC)	TON	1
(2)	411-01.10	ACS MIX(PG64-22) GRADING D	TON	635
	411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	1
	604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	299
	604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	56631
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	72
	701-02	CONCRETE DRIVEWAY	S.F.	1611
	705-01.04	METAL BEAM GUARD FENCE	L.F.	88
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	225
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	4
(1)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	165
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	15
(1)(3)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	100
(4)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	2062
(12)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	380
	712-01	TRAFFIC CONTROL	LS	1
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	4
	712-06	SIGNS (CONSTRUCTION)	S.F.	267
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	40
(5)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	3
(6)	713-16.20	SIGNS (OFFSET CROSSROAD, TN-27A)	EACH	1
(6)	713-16.21	SIGNS (CURVE SYMBOL RIGHT, W1-2R)	EACH	1
(11)	713-16.22	SIGNS (36" STOP R1-1)	EACH	2
(15)	716-01.21	Snwplwble Pvmt Mrkrs (Bi-Dir)(1 Color)	EACH	48
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	45
(15)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	1
(7)	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	2
(16)	716-13.02	SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	L.M.	1
(1)	717-01	MOBILIZATION	LS	1
(8)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	263
(4)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	908
(1)(17)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN (EROSION CONTROL)	L.F.	78
	801-01.34	GRASS SEED MIX (RIPZN/FLPL)	UNIT	2
(1)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	18
(1)(13)	801-02.01	CROWN VETCH MIXTURE (WITHOUT MULCH)	UNIT	5
(1)(9)	801-03	WATER (SEEDING & SODDING)	M.G.	18
(1)(14)	803-01	SODDING (NEW SOD)	S.Y.	1581
(1)(13)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	439

FOOTNOTES:

(1) SEE SUBSECTION 209.07 OF STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
(2) INCLUDES 467 TONS FOR TRAFFIC CONTROL DETOUR OVERLAY 0.6 MILES ON SPECK ROAD AT 20' WIDTH.
(3) USED FOR TEMPORARY CONSTRUCTION EXITS.
(4) USED FOR ROCK PAD (SEE SOIL SHEET NOS. 11 & 11A).
(5) REMOVE SIGNS AND SUPPORT ON TWO +/- (2+/-) SIGNS (NO FOOTING ON THESE SIGNS) OR AS DIRECTED BY THE ENGINEER.
(6) SEE PROPOSED LAYOUT SHEETS FOR DETAILS, ITEM TO INCLUDE SIGN AND POST ASSEMBLY.
(7) INCLUDES 1.44 L.M. ON SPECK ROAD FOR TRAFFIC CONTROL DETOUR.
(8) 167 S.Y. USED FOR TEMPORARY CONSTRUCTION EXITS AND 96 S.Y. FOR SEDIMENT FILTER BAG.
(9) INCLUDES 2 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(10) 87 TONS TO BE USED ON SPECK ROAD SHOULDERS. COST OF CLIPPING AND DISPOSAL OF DEBRIS FROM SHOULDERS TO BE INCLUDED IN THE COST OF THIS ITEM.
(11) TO BE USED ON SPECK ROAD, ITEM TO INCLUDE SIGN AND POST ASSEMBLY.
(12) TO BE USED FOR INLET AND OUTLET PROTECTION FOR BOX CULVERT.
(13) TO BE USED IN AREA OF ROCK FILL.
(14) TO BE USED ON SLOPES 3:1 AND FLATTER.
(15) TO BE USED ON SR-293 CENTERLINE.
(16) TO BE USED ON SR-293 EDGE LINES.
(17) USED FOR TEMPORARY CONSTRUCTION EXITS. TO BE LOCATED AS DIRECTED BY THE ENGINEER.
(18) SALVAGE VALUE SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE DEMOLITION CONTRACTOR IS REQUIRED TO SUBMIT THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS STANDARD 10-DAY NOTICE OF DEMOLITION TO THE TENNESSEE DIVISION OF AIR POLLUTION CONTROL.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

24-MAR-2015 09:08
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-293(11)	2A

REV. 7-28-15: REPLACED ALL QUANTITIES AND ITEM NUMBERS IN UTILITIES QUANTITY BLOCK. REMOVED ALL FOOTNOTES AND ADDED FOOTNOTE NO. 1.

ESTIMATED UTILITY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	67020-3214-94 QUANTITY
1)	791-03.02	2IN HDPE GAS MAIN	LF	380
1)	791-04.11	HDD 2IN PE PIPE-UNCONSOLIDATED	LF	300
1)	791-06.02	CONNECT TO 2IN EX. PE MAIN	EA	2
1)	791-07.01	2IN PE GAS VALVE ASSEMBLY	EA	2
1)	793-04.25	HOT SPLICE EXISTING CABLES	EACH	1802
1)	793-07.01	12 FIBER(MATERIAL ONLY)	L.F.	1570
1)	793-07.25	SINGLE FIBER OPTIC CABLE SPLICE	EACH	8
1)	793-07.41	HOT SPLICE EXISTING FIBER CABLES	EACH	16
1)	793-09.07	300 PAIR BURIED CABLE	L.F.	850
1)	793-09.09	600 PAIR BURIED CABLE	L.F.	1470
1)	793-10.08	BURIED CABLE @ 40IN DEPTH	L.F.	1570
1)	793-11.01	25 GROUP BURIED SPLICE	EACH	900
1)	793-11.10	12IN PEDESTAL	EACH	1
1)	793-11.13	BURIED RISER GUARD	EACH	1
1)	793-11.14	2 PAIR BURIED DROP	L.F.	100
1)	793-12.02	REARRANGEMENT EXISTING CABLE	EACH	1
1)	793-98.06	REMOVE PEDESTALS	EACH	2
1)	795-01.01	4IN DIP RESTRAINED JOINT WATER LINE	LF	40
1)	795-01.03	6IN DIP RESTRAINED JOINT WATER LINE	LF	100
1)	795-02.04	6IN HDPE WATER LINE	LF	300
1)	795-05.05	HDD 10IN HDPE CASING PIPE-UCON	LF	270
1)	795-06.03	CONNECT TO 4IN WATER LINE	EA	2
1)	795-07.01	4IN X 4IN TAPPING SLEEVE AND VALVE	EA	2
1)	795-07.30	INSERTION VALVE (4IN)	EA	1
1)	795-09.10	SAMPLE TAP	EA	1
1)	795-10.01	3/4IN AUTO AIR RELEASE VALVE ASSEMBLY	EA	1
1)	795-11.02	FIRE HYDRANT ASSEMBLY	EA	1
1)	795-13.01	DI FITTINGS	LBS	1200
1)	795-13.02	HDPE FITTINGS	LBS	60

1) SEE APPLICABLE UTILITY PLANS SHEETS FOR CURRENT FOOTNOTES.

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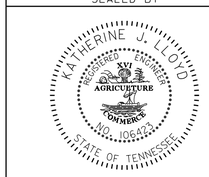

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED UTILITIES QUANTITIES

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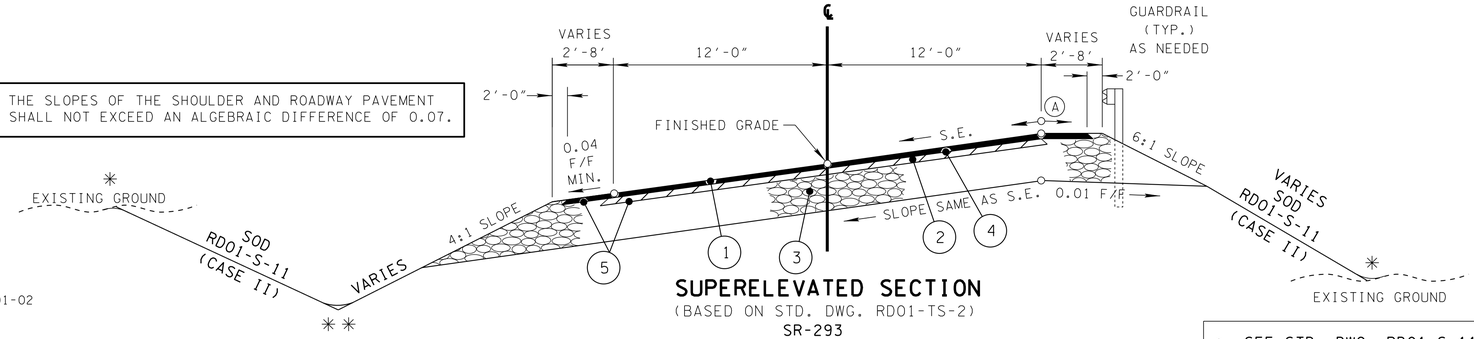
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	2
CONST.	2015	BR-STP-293(11)	2B

(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-2)

SR-293

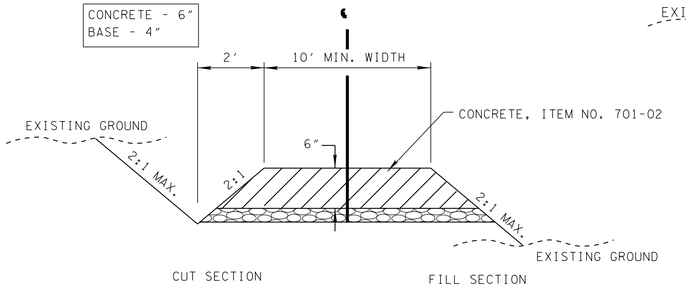
STA. 36+96.79 TO STA. 37+36.79 PAVEM'T. TRANS. (EXIST 21.24' TO PROP. 24')
STA. 37+50.00 TO STA. 38+00.00 SHOULDER TRANSITION (2' TO 8')
STA. 40+55.00 TO STA. 41+20.00 SHOULDER TRANSITION (8' TO 2')
STA. 42+39.41 TO STA. 42+52.11 PAVEM'T. TRANS.(PROP. 24' TO EXIST. 20.62')

* SEE STD. DWG. RD01-S-11 FOR ROUNDING (TYP.)

** SEE STD. DWG. RD-01-11A FOR DITCH ROUNDING

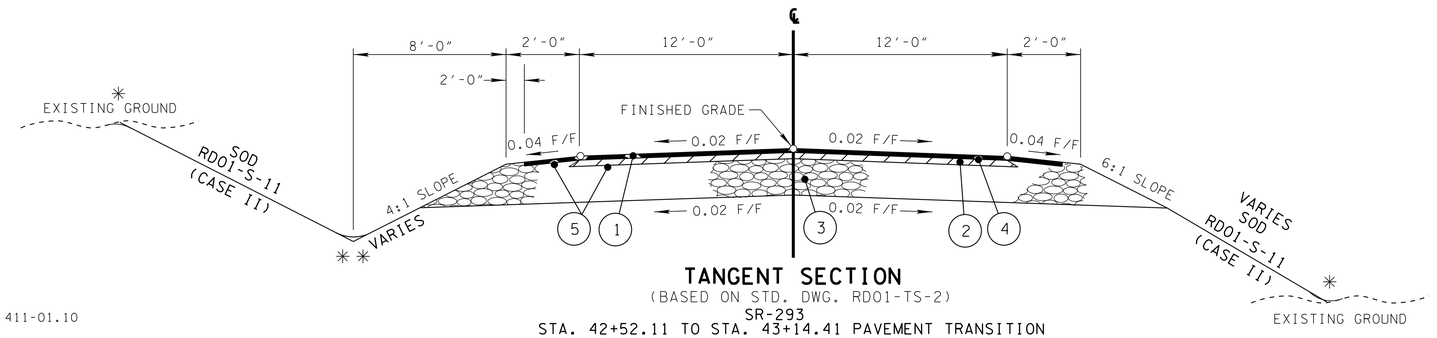
RESIDENTIAL

CONCRETE - 6"
BASE - 4"



TYPICAL SECTION

PRIVATE DRIVE TO RESIDENTIAL PROPERTY



TANGENT SECTION

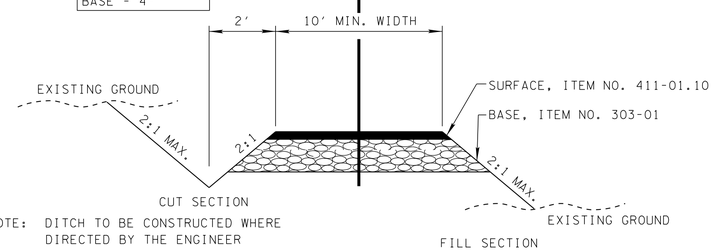
(BASED ON STD. DWG. RD01-TS-2)

SR-293

STA. 42+52.11 TO STA. 43+14.41 PAVEMENT TRANSITION

FIELD OR RESIDENTIAL

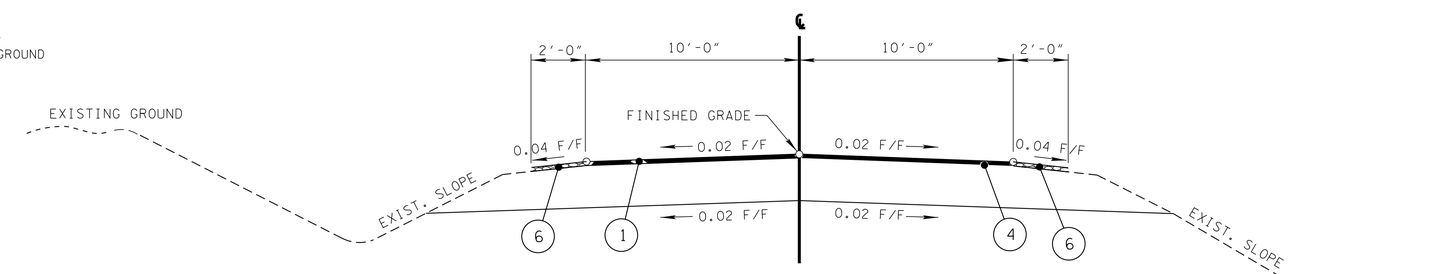
SURFACE - 1½"
BINDER - NONE
BASE - 4"



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY



TYPICAL SECTION

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

SPECK ROAD

OVERLAY AND ADD 2' OF SHOULDER STONE

PROPOSED PAVEMENT SCHEDULE

(1) SURFACE - 1.25" THICK (APPROX. 132.5 LBS/YD²) 411-01.10 ACS MIX (PG64-22) GRADING D	(4) TACK COAT 0.07 GAL/YD² 403-01 BITUNINOUS MATERIAL FOR TACK COAT (T.C.)
(2) BINDER - 2" THICK (APPROX. 226 LBS/YD²) 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2)	(5) PRIME COAT 402-01 BIT MAT FOR PRIME COAT (PC) @ 0.3-.35 GAL/YD AGG (ACS) GRA D 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 8-12 LBS/YD
(3) BASE STONE -10" THICK (FULL DEPTH UNDER SHLD'S.) 303-01 MINERAL AGGREGATE. TYPE "A" BASE. GRADING D	(6) BASE STONE - 1¼" THICK (ON SPECK RD. SHLD'S) 303-01 MINERAL AGGREGATE. TYPE "A" BASE. GRADING D

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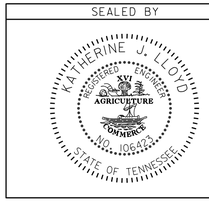

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-293(11)	2C

GENERAL NOTES

GRADING

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

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

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

SEEDING AND SODDING

(4) 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

(5) ITEM NO. 801-02.01 CROWN VETCH MIXTURE (WITHOUT MULCH) SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

GUARDRAIL

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

DRAINAGE

(7) 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.

(8) 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.

(9) 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).

(10) 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.

(11) 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 (see sht. no. 3)

MISCELLANEOUS

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

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

ROAD CLOSURE

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

RIGHT - OF – WAY (see sht. no. 3)

PAVEMENT MARKINGS

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

(15) 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.

FINAL PAVEMENT MARKING IF 6” ENHANCED FLATLINE THERMOPLASTIC IS USED

(16) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6” ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(17) THE PAVEMENT MARKING ON THE DETOUR FOR CENTERLINE AND EDGELINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO.716-13.01, LIN. MI.

PAVEMENT

PAVING

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

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

SIGNING

(20) 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.

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

(22) 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.

(23) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(24) 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.

(25) 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.

(26) 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.

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

(28) 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.

(29) 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.

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

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

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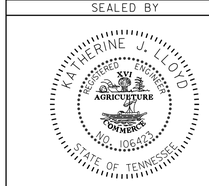

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-293(11)	2D

GENERAL NOTES (CONT'D.)

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.

SEDIMENT CONTROL

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

(7) 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.

(8) 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.

(9) 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.

(10) 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.

(11) 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.

(12) 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.

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

STREAM/WETLAND

(14) 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.

(15) 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.

(16) 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.

(17) 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.

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

(19) 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.

(20) 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.

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

SPECIES

(22) 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

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

(24) 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.

(25) 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.

(26) 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.

(27) 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.

(28) 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.

(29) 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.

(30) 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

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

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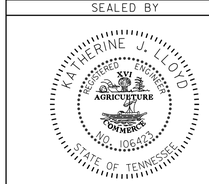

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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GENERAL NOTES (CONT'D.)

SWPPP, PERMITS, PLANS, RECORDS

(32) 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.

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

(34) 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.

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

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

(37) 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.

(38) 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.

(39) 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.

(40) 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

(41) 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.

(42) 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.

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

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

ENVIRONMENTAL

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

ECOLOGY

(8) 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.

(9) 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.

(10) 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.

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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND SPECIAL NOTES

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PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	GUARDRAIL: METAL BEAM GUARD FENCE 705-01.04 (L.F.)	GUARDRAIL: SINGLE TYPE 2 705-02.02 (L.F.)	TERMINAL ANCHORS: TYPE 38 705-04.07 (EACH)	TERMINAL ANCHORS:	REMARKS
4B	SR-293	X		38+01.44	40+51.44	43.75	112.5	2		attach to deck
4B	SR-293		X	38+01.44	40+51.44	43.75	112.5	2		attach to deck
TOTALS						87.5	225	4	0	

SIDE DRAIN TABULATION

STATION	LOCATION LT	LOCATION RT	DESCRIPTION	SURFACE WIDTH (L.F.)	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 10 FT. 18"				REMARKS
41+37.16	X		PVT. DRIVE	16	26				
42+70.75		X	PVT. DRIVE	24	26				
42+82.24	X		PVT. DRIVE	16	20				
TOTALS					72	0	0		

ESTIMATED GRADING QUANTITIES

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.) C.Y.	BORROW EXCAVATION UNCL. - C.Y.	BORROW EXCAVATION 709-05.06 S. ROCK - C.Y.	CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
SR-293	445	766	1178			1083
PVT. DRIVES	100					57
TOTALS	545	766	1178	0	0	1140

PAVEMENT QUANTITIES

LOCATION	PAY ITEMS 303-01 (TON)	307-01.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.10 (TON)	701-02 CONC. DRIVEWAY (S.F.)
SR-293	1602.0	184.0	3.5	12.8	0.5	157.3	
SPECK RD.	87.0				2.1	467.0	
PVT. DR.	69.0					10.0	1611.0
TOTALS	1758.0	184.0	3.5	12.8	2.6	634.3	1611.0

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BOX BRIDGE TABULATION

STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA Sq. Mi.	BOX BRIDGE: BOX CLASS "A" CONC. CU. YD.	BOX: REINF. STEEL LBS.	WINGWALLS: CLASS "A" CONC. CU. YD.	WINGWALLS:	STEEL BAR REINF. LBS.	MACHINED RIP-RAP CLASS "B" TONS	DRAWING NO.	BACKFILLING ITEM 303-01.01 DWG. STD-10-1 TONS	FOUNDATION FILL MATERIAL CU. YD.
39+20	SR-293	3@14'	9'	51.42'	90^	2.02	298.27	56,631	27.3		3342	380	STD-17-100	720	87
TOTALS							298.27	56631	27.3	0	3342	380		720	87

R.O.W. MARKERS

SHEET NO.	QUANTITIES "A"	"B"	"C"	TOTALS
4	9			9
5	6			6
				0
TOTALS	15	0	0	15

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	3
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REV. 5-13-14: ADDED TR. NOS. 25,26 AND 27. ADJUSTED AREA TO BE ACQUIRED AND AREA REMAINING ON TR. NOS. 11,16 & 17.

REV. 7-08-14: ADJUSTED AREA TO BE ACQUIRED AND AREA REMAINING ON TR. NO. 16.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.	
1	JOHNNY PENDEGRASS AND WIFE JUDY	97	32.01	246	44		7.600	7.600					7.600				
2	BOBBY A. YORK AND WIFE DONNA L.	97	30.07	99	355	0.960		0.960				0.960					
3	GREGORY R. WHITED AND WIFE DINNA S.	97	30.14	50	796	0.570		0.570				0.570					
4	THOMAS B. SOMMERS	97	30.11	104	699	0.570		0.570				0.570					
5	GEORGE RAMSEY JR.	97	32.04	67	606		1.000	1.000					1.000				
6	LESTER G. MCBRIDE AND CARLENE MCBRIDE	97	30	293	426	0.570		0.570				0.570					
7	GLENN'S BUILDERS LLC.	97	34.06	306	137	0.500		0.500				0.500					
8	BIBBY D. JONES AND WIFE BRENDA F.	97	29.03	305	313	0.460		0.460				0.460					
9	MARK WILSON	97	29.16	314	526	0.500		0.500				0.500					
10	GEORGENA S. SMITH	97	29.05	101	614	0.460		0.460				0.460					
11	GEORGE T. RAMSEY AND WIFE ANN	97	31	251	167		2.500	2.500		3821 S.F.	3821 S.F.		2.412				
12	JAMES CRAVENS AND WIFE CASSANDRA	97	29.17	58	598	0.590		0.590	2337 S.F.		2337 S.F.	0.536					
13	ANDREW K. MILLER AND WIFE CYNTHIA M.	97	29.15	18	509	0.470		0.470				0.470					
14	DERRICK W. KING AND PATRICIA G.	97	29.11	286	568	0.470		0.470				0.470					
15	DERRICK W. KING AND PATRICIA G.	97	29.07	285	216	0.470		0.470				0.470					
16	TIM PENDERGRASS AND WIFE ELIZABETH	96	68	306	339		31.060	31.060		1574 S.F.	1574 S.F.		31.024			661	1
17	GLENN'S BUILDERS LLC.	97	34.02	15	74	8.130		8.130	0.123		0.123	8.007					
18	ALVIN E. WALKER AND CHAD WALKER	97	34.05	26	374		6.190	6.190		0.246	0.246		5.944			2210	1
19	JOHNNY PENDEGRASS AND OTHERS	97	34	268	505		19.400	19.400					19.400				
20	ALVIN E. WALKER AND CHAD WALKER	97	34.05	26	374		0.594	0.594					0.594				
21	GAYRON FRANKLIN AND WIFE MARLA KAY	97	34.09	96	178	5.020		5.020				5.020					
22	THOMAS RAY AND WIFE PATSY	97	34.08	268	589		5.380	5.380					5.380				
23	LARRY WILEY	97	34.13	23	458		1.000	1.000					1.000				
24	FIRST BAPTIST CHURCH RICKMAN	97	27.01	131	248	8.680		8.680				8.680					
25	GLENN'S BUILDERS LLC.	97	34.38			0.550		0.550				0.550					
26	GLENN'S BUILDERS LLC.	97	34.39			0.540		0.540	1078 S.F.		1078 S.F.	0.515					
27	GLENN'S BUILDERS LLC.	97	34.40			0.830		0.830	0.172		0.172	0.658					
ACQUISTION TOTALS (ACRES)									0.373	0.370	0.743					2871	

1 CONSTRUCTION EASEMENT USED FOR EROSION CONTROL.

RIGHT - OF – WAY

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

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

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

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

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

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

(7) TRACT REMAINDERS NOT HAVING AN EXISTING DRIVEWAY WILL BE PROVIDED ONE 50-FOOT OPENING IN THE ACCESS CONTROL FENCE AND A DRIVEWAY WILL BE CONSTRUCTED UNLESS ACCESS IS PROVIDED FROM AN INTERSECTING ROAD OR BASED ON PHYSICAL CONDITIONS AND/OR CONFLICTS WITH OTHER DESIGN CONSIDERATIONS WHICH PREVENT AN ACCESS OPENING. PAVING OF THESE NEW DRIVEWAYS WILL BE IN ACCORDANCE TO THE 7 PERCENT CRITERIA PREVIOUSLY MENTIONED FOR EXISTING DRIVEWAYS.

(8) 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.

(9) 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.

UTILITY OWNERS

UTILTY	OWNERS	PHONE NO.	CONTACT	ADDRESS	CITY	STATE	ZIP CODE
TELEPHONE	TWIN LAKES TEL CO-OP	931-268-2151	KENNET CONNER	201 GORE AVE.	GAINSBORO	TN	38562
TELEPHONE	WEST OVERTON UTILITY DISTRICT	931-498-4144	TERRY WALKER	PO BOX 278	RICKMAN	TN	38580
GAS	LIVINGSTON, TOWN OF	931-823-1269, 931-823-7362 FAX	MAYOR CURTIS HAYES	301 HENRY CIRCLE	LIVINGSTON	TN	38570
POWER	UPPER CUMBERLAND ELEC. MEMB. CORP.	800-261-2940, 615-735-3905 FAX	JIMMY GREGORY	138 GORDONSVILLE HWY.	CARTHAGE	TN	37030-1810
CABLE TV	CELINA CABLE COMMUNICATIONS	931-823-1114 OFFICE	SAM NICHOLS	1034 E. MAIN ST.	LIVINGSTON	TN	38570
		931-261-7317 CELL					

DISTURBED AREA

IN BETWEEN SLOPES	1.03 Ac.
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	0.220 Ac.
TOTAL DISTURBED AREA	1.250 Ac.

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.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

24-MAR-2015 09:4
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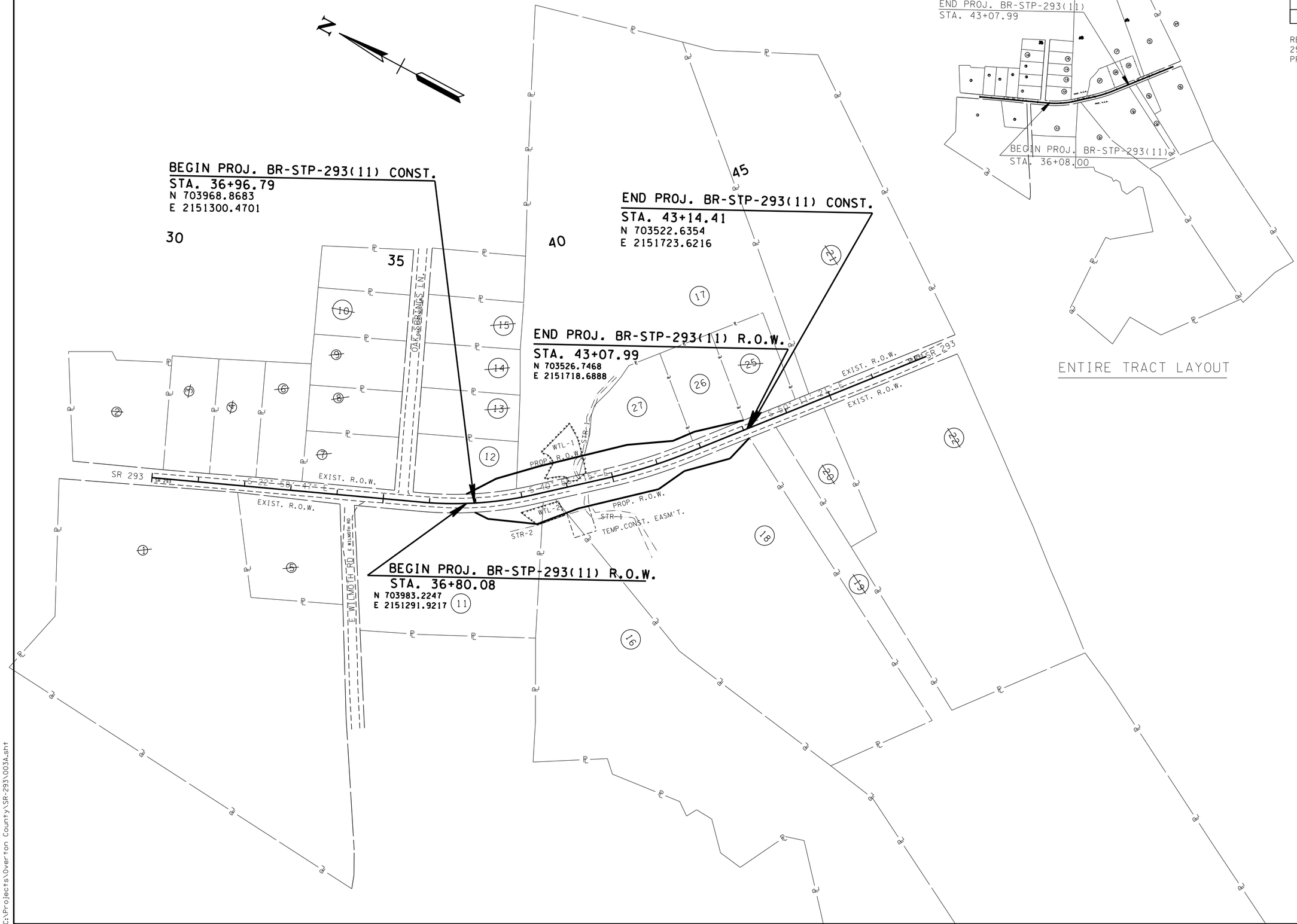
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	3A
CONST.	2015	BR-STP-293(11)	3A

REV. 5-13-2014: ADDED TR. NOS. 25,26 AND 27. CHANGED END R.O.W. PROJECT LIMIT.



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KATHERINE J. LLOYD
REGISTERED ENGINEER
XV
AGRICULTURE
COMMERCE
NO. 106473
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.36+00 TO STA.47+24.62

SCALE: 1"=100'

24-MAR-2015 09:15
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	4
CONST.	2015	BR-STP-293(11)	4

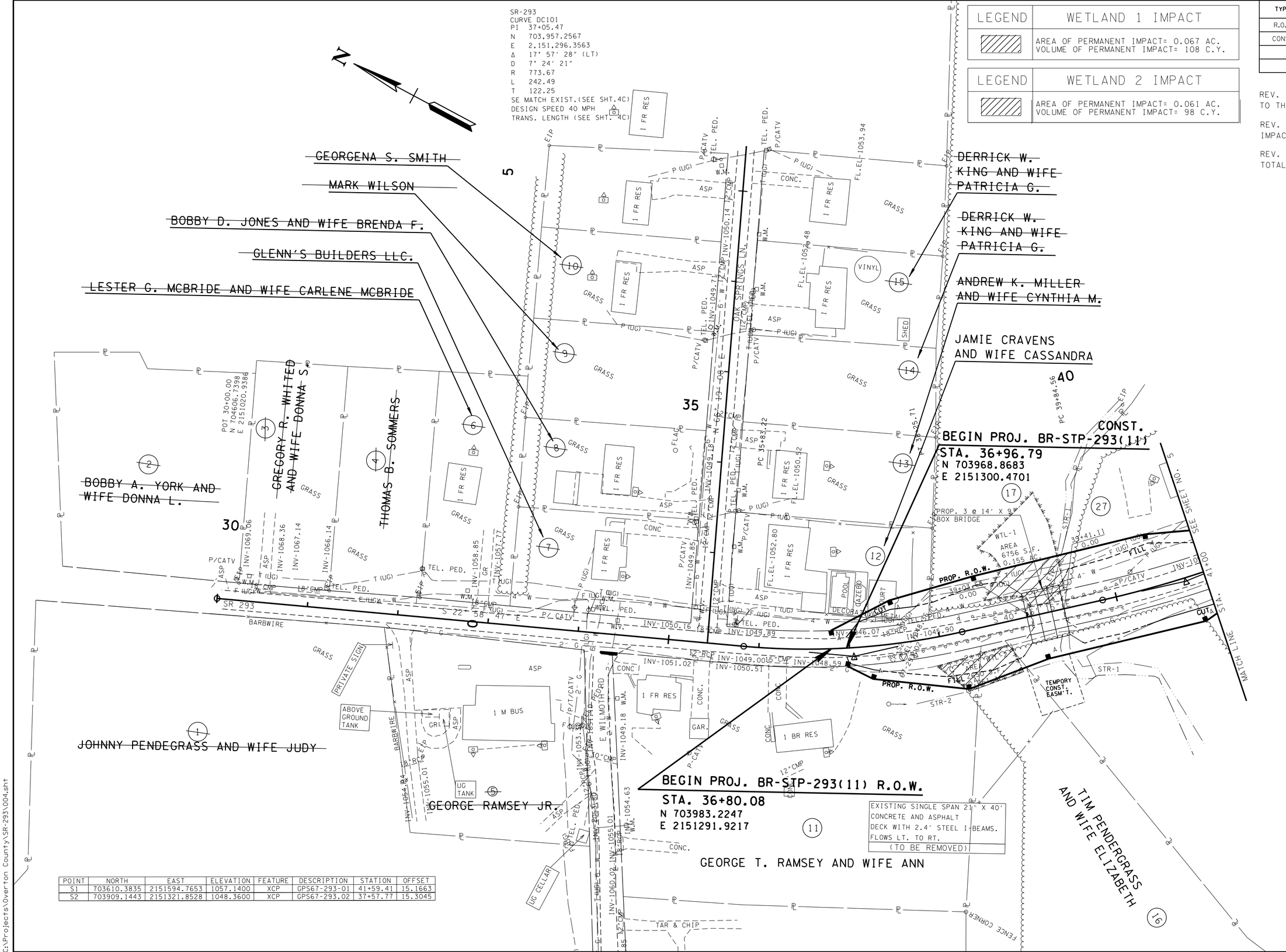
LEGEND	WETLAND 1 IMPACT
	AREA OF PERMANENT IMPACT= 0.067 AC. VOLUME OF PERMANENT IMPACT= 108 C.Y.

LEGEND	WETLAND 2 IMPACT
	AREA OF PERMANENT IMPACT= 0.061 AC. VOLUME OF PERMANENT IMPACT= 98 C.Y.

REV. 5-13-2014: ADDED TR. NO. 27 TO THIS SHEET.

REV. 8-08-2014: ADDED WETLAND IMPACT TABLES TO THIS SHEET.

REV. 11-13-2014: CORRECTED TOTAL AREA OF WTL-1.



POINT	NORTH	EAST	ELEVATION	FEATURE	DESCRIPTION	STATION	OFFSET
S1	703610.3835	2151594.7653	1057.1400	XCP	GPS67-293-01	41+59.41	15.1663
S2	703909.1443	2151321.8528	1048.3600	XCP	GPS67-293.02	37+57.77	15.3045

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 36+00 TO STA. 41+00

SCALE: 1"= 50′

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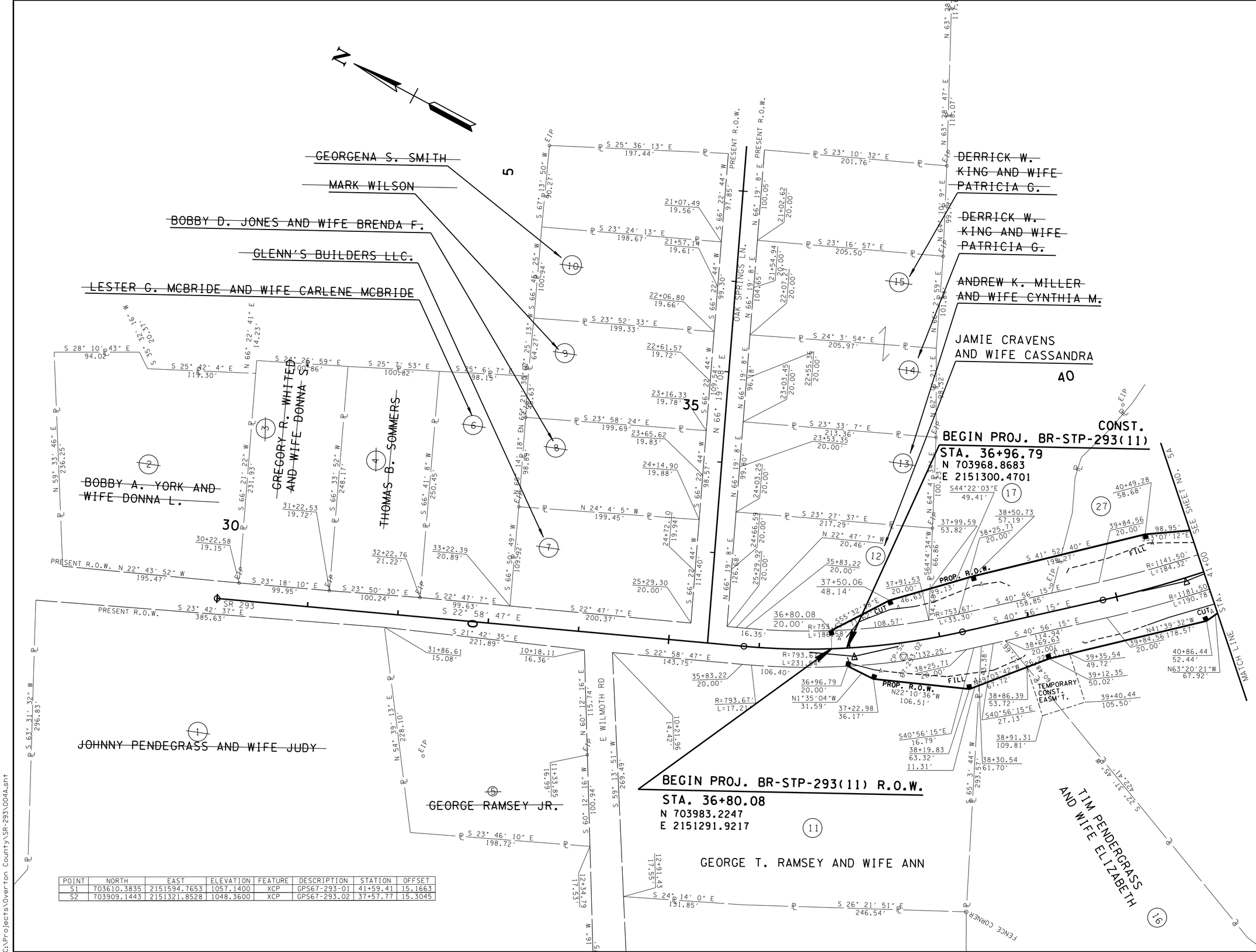
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	4A
CONST.	2015	BR-STP-293(11)	4A

REV. 5-13-2014: ADDED TR. NO. 27 TO THIS SHEET.



POINT	NORTH	EAST	ELEVATION	FEATURE	DESCRIPTION	STATION	OFFSET
S1	703610.3835	2151594.7653	1057.1400	XCP	GPS67-293-01	41+59.41	15.1663
S2	703909.1443	2151321.8528	1048.3600	XCP	GPS67-293.02	37+57.77	15.3045

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

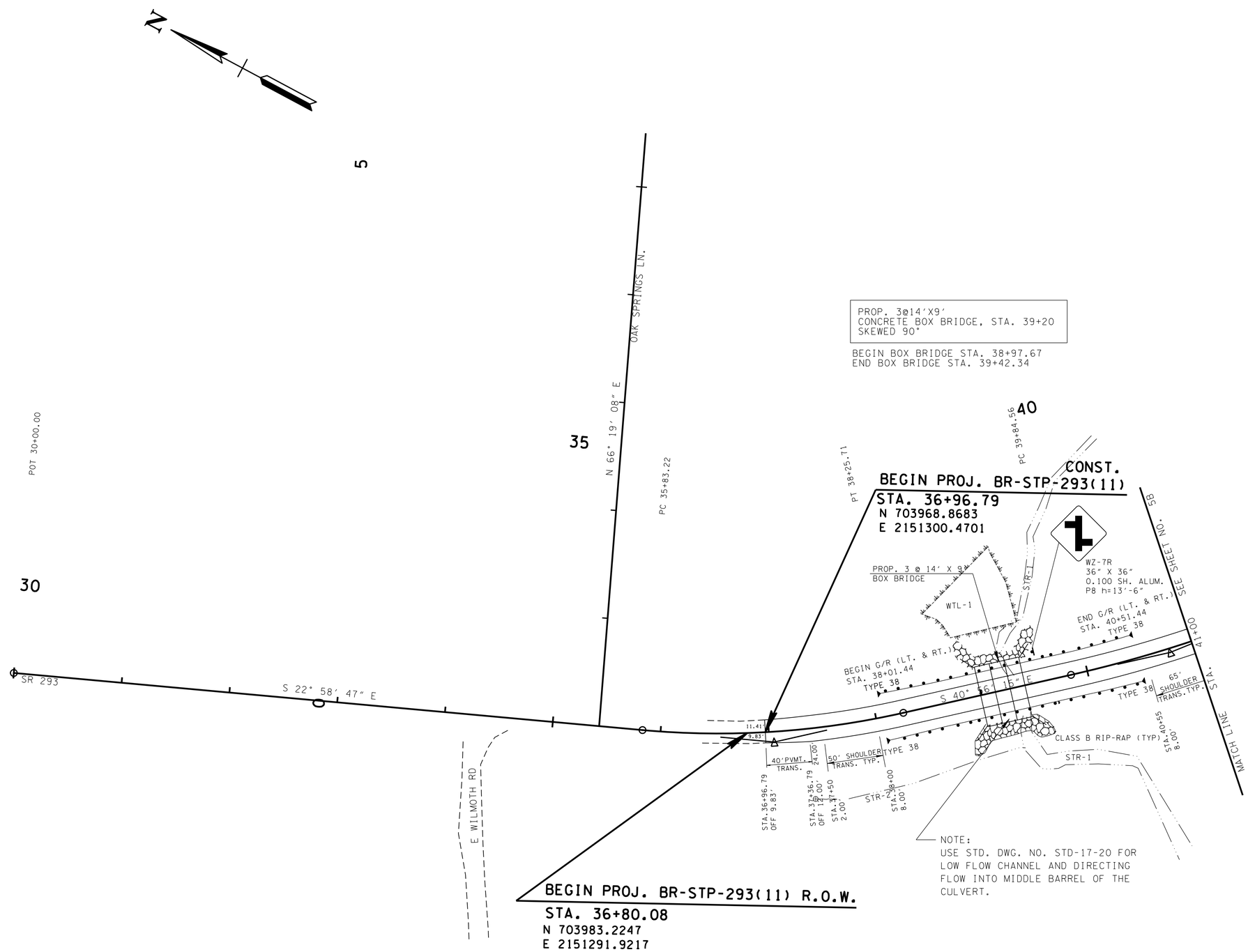
R.O.W. DETAILS

STA. 36+00 TO STA. 41+00

SCALE: 1"= 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	4B
CONST.	2015	BR-STP-293(11)	4B

REV. 8-8-2014: ADDED WTL-1, DELETED TEMPORARY WETLAND IMPACT NOTE AND ADDED LOW FLOW CULVERT NOTE.



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NO. 106475
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 36+00 TO STA. 41+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	4C
CONST.	2015	BR-STP-293(11)	4C

REV. 5-13-2014:CHANGED END OF R.O.W. PROJECT LIMIT.

EARTHWORK

EXC. (UNCL.) 545 C.Y. (INCLUDES 100 C.Y. FOR PVT. DRIVES, 0 C.Y. FOR T-SOIL FROM EXC., AND 0 C.Y. FOR T-SOIL FROM EMB AND 0 C.Y. EXCESS MATERIAL)

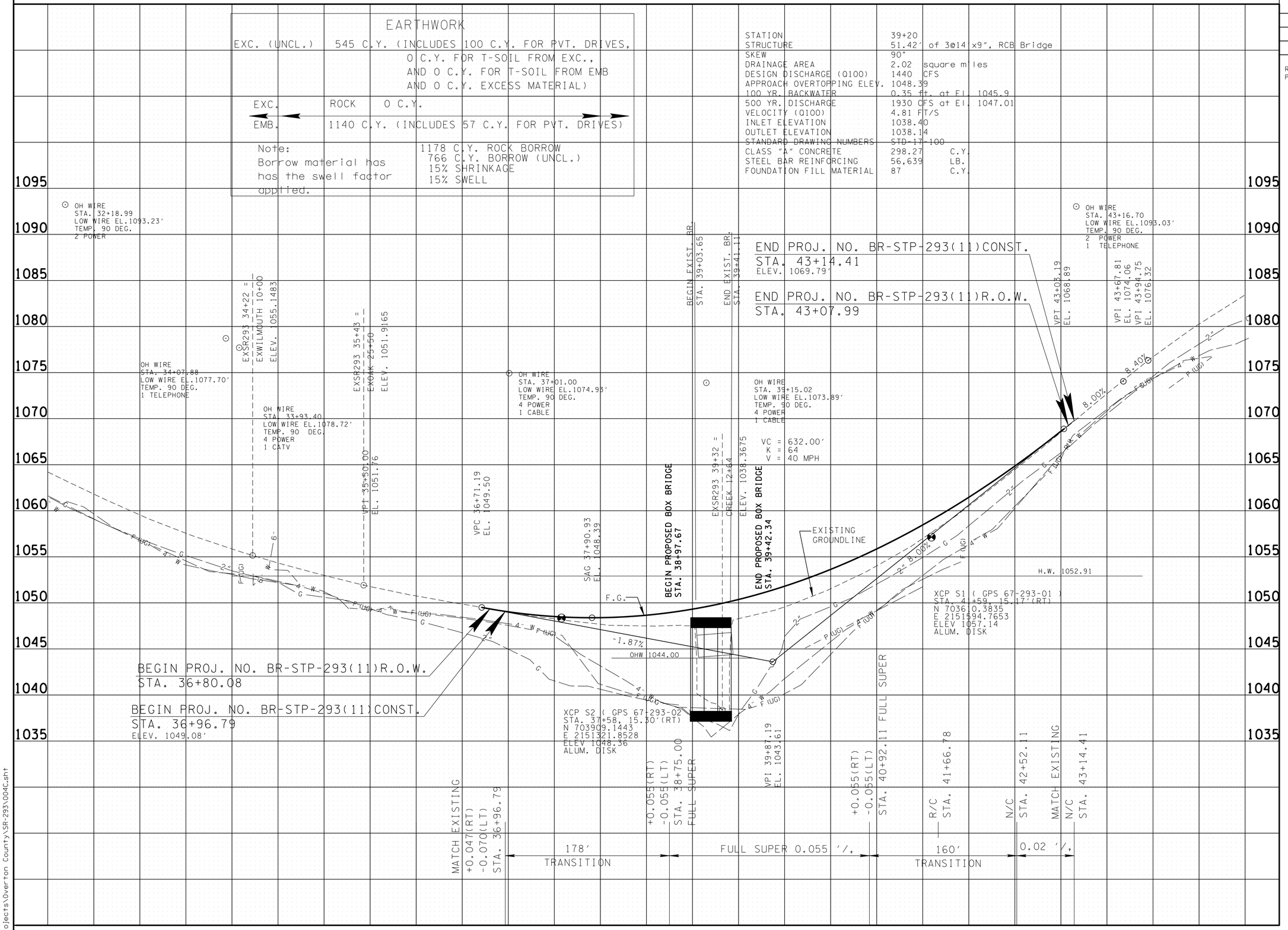
EXC. ROCK 0 C.Y.

EMB. 1140 C.Y. (INCLUDES 57 C.Y. FOR PVT. DRIVES)

Note: Borrow material has has the swell factor applied.

1178 C.Y. ROCK BORROW
766 C.Y. BORROW (UNCL.)
15% SHRINKAGE
15% SWELL

STATION	39+20
STRUCTURE	51.42' of 3@14 x9", RCB Bridge
SKEW	90°
DRAINAGE AREA	2.02 square miles
DESIGN DISCHARGE (Q100)	1440 CFS
APPROACH OVERTOPPING ELEV.	1048.39
100 YR. BACKWATER	0.35 ft. at El. 1045.9
500 YR. DISCHARGE	1930 CFS at El. 1047.01
VELOCITY (Q100)	4.81 FT/S
INLET ELEVATION	1038.40
OUTLET ELEVATION	1038.14
STANDARD DRAWING NUMBERS	STD-17-100
CLASS "A" CONCRETE	298.27 C.Y.
STEEL BAR REINFORCING	56,639 LB.
FOUNDATION FILL MATERIAL	87 C.Y.



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AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.36+00 TO STA.47+24.62

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

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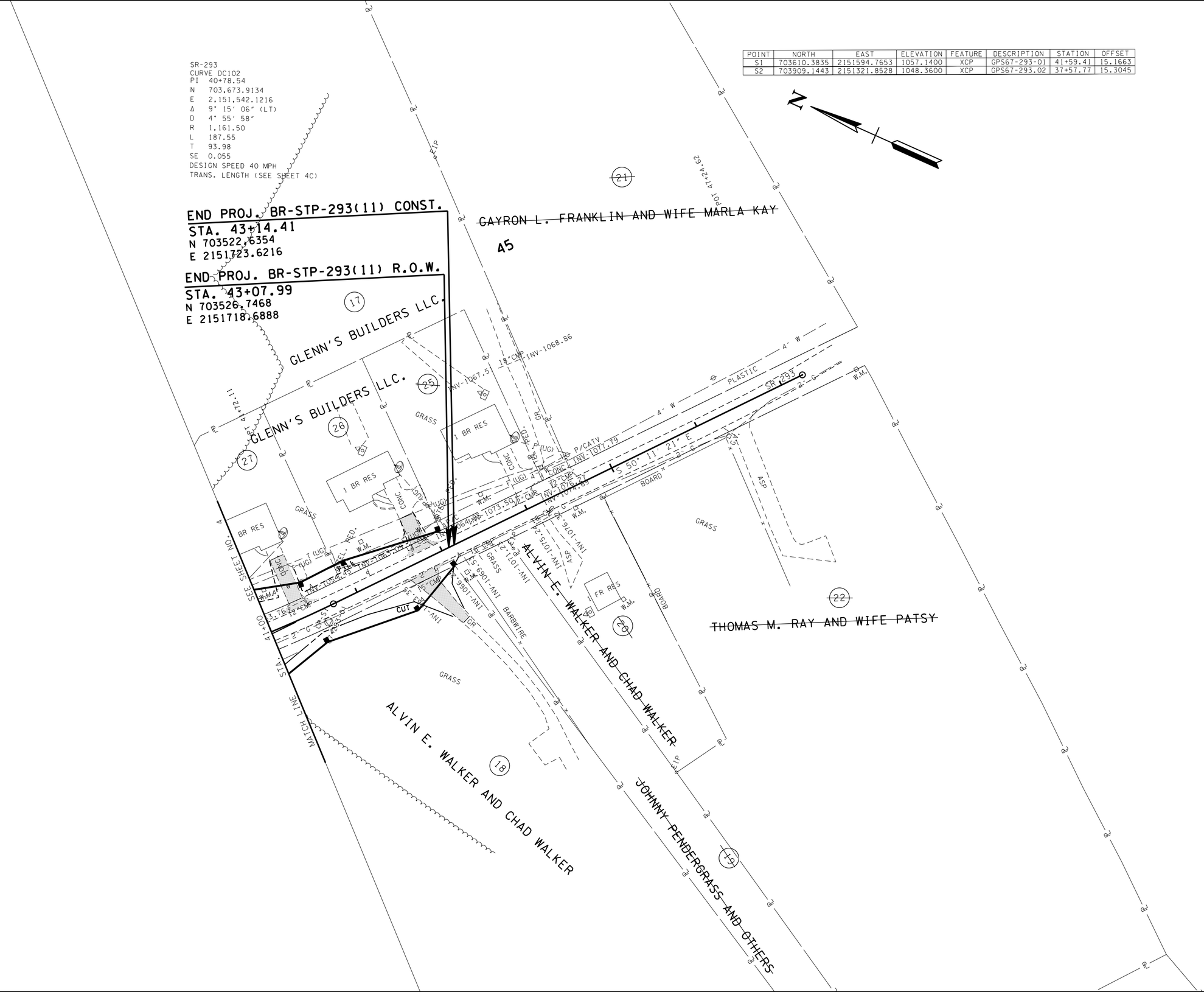
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	5
CONST.	2015	BR-STP-293(11)	5

REV. 5-13-2014: ADDED TR. NOS. 25,26 AND 27. CHANGED END R.O.W. PROJECT LIMIT.

POINT	NORTH	EAST	ELEVATION	FEATURE	DESCRIPTION	STATION	OFFSET
S1	703610.3835	2151594.7653	1057.1400	XCP	GPS67-293-01	41+59.41	15.1663
S2	703909.1443	2151321.8528	1048.3600	XCP	GPS67-293.02	37+57.77	15.3045



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.41+00 TO STA.47+24.62

SCALE: 1"= 50'

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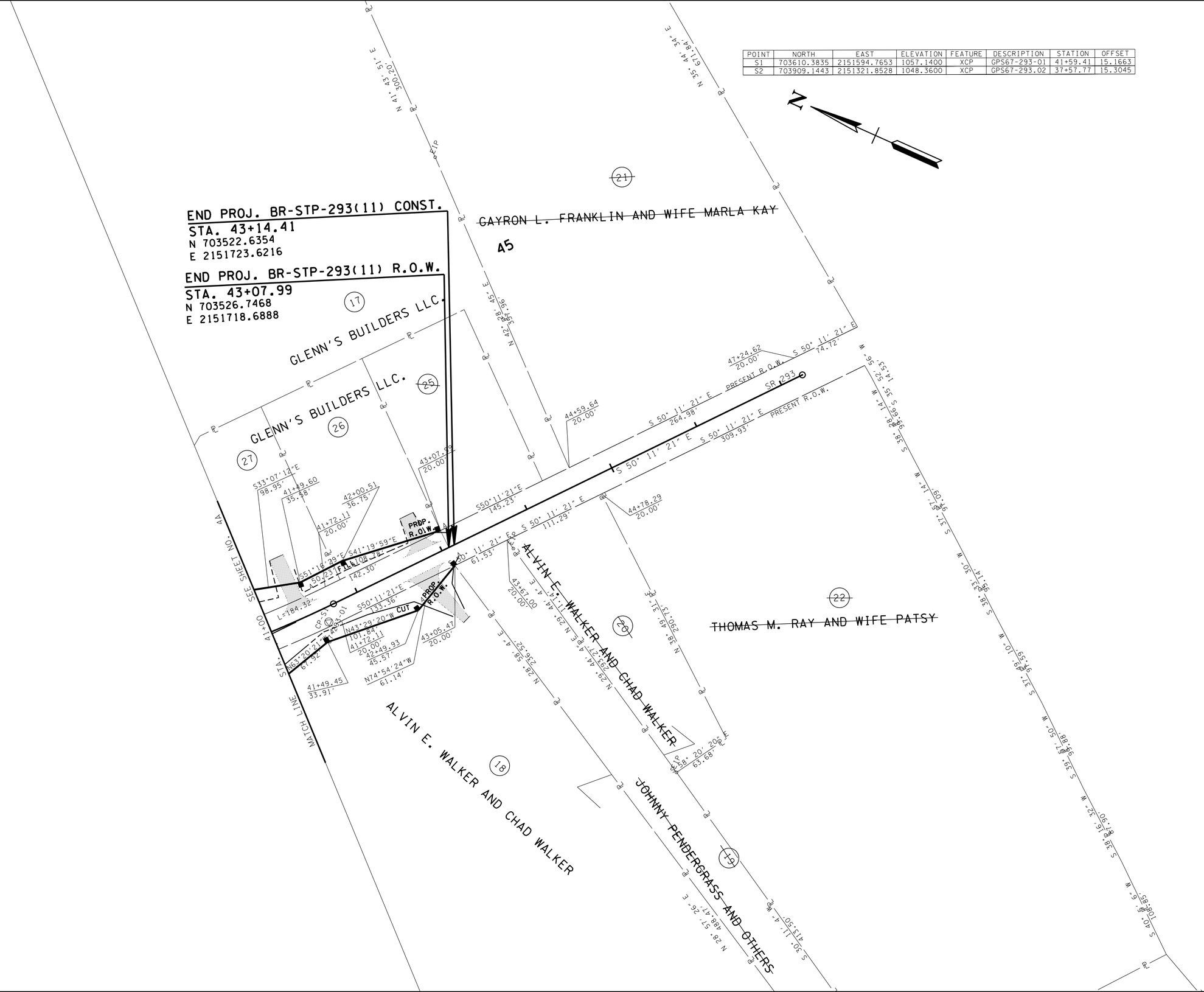
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	5A
CONST.	2015	BR-STP-293(11)	5A

REV. 5-13-2014: ADDED TR. NOS. 25,26 AND 27. CHANGED END R.O.W. PROJECT LIMIT.

POINT	NORTH	EAST	ELEVATION	FEATURE	DESCRIPTION	STATION	OFFSET
S1	703610.3835	2151594.7653	1057.1400	XCP	GPS67-293-01	41+59.41	15.1663
S2	703909.1443	2151321.8528	1048.3600	XCP	GPS67-293.02	37+57.77	15.3045



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA.41+00 TO STA.47 +24.62

SCALE: 1"= 50'

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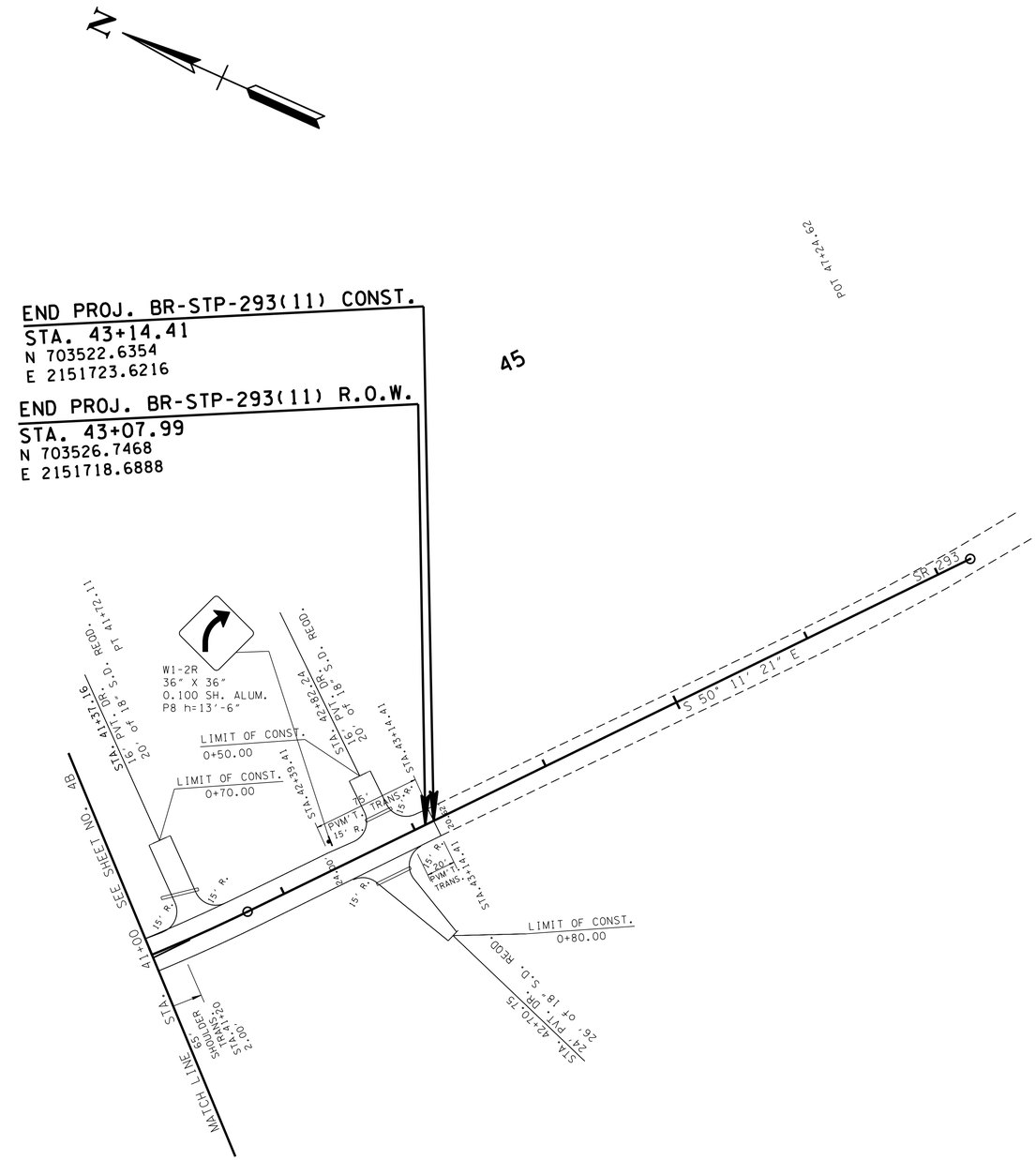
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	5B
CONST.	2015	BR-STP-293(11)	5B

REV. 5-13-2014: CHANGED END R.O.W. PROJECT LIMIT.



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.41+00 TO STA.47+24.62

SCALE: 1"= 50'

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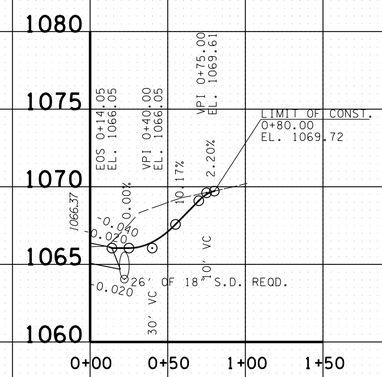
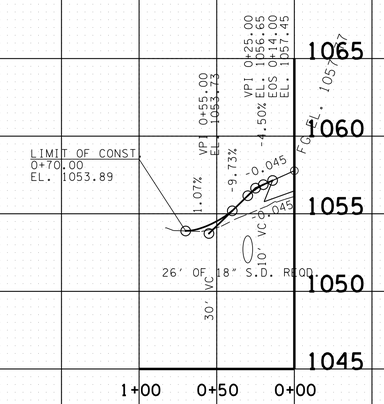
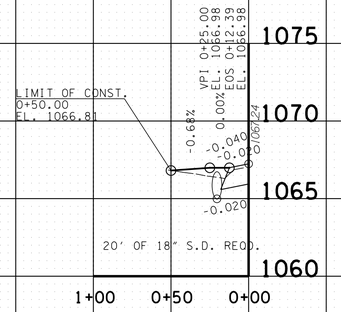
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	6
CONST.	2015	BR-STP-293(11)	6



PVT. DR. RT. 42+70.75
TRACT NO. 18
(PAVED)



PVT. DR. LT. 41+37.16
TRACT NO. 27
(CONC.)



PVT. DR. LT. 42+82.24
TRACT NO. 26
(CONC.)

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

24-MAR-2015 09:16
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	7
CONST.	2015	BR-STP-293(11)	7

REV. 11-13-14: CORRECTED TOTAL AREA OF WTL-1

BRIDGE SURVEY NOTES

Proj. No. 67020-0214-94 Route: S.R. 293

Desc: BRIDGE REPLACEMENT SURVEY

County: OVERTON

General:

Alignment: S.R. 293 BRIDGE ID # 67F00150005

Location: L.M. 5.34

Name of stream: UNKNOWN BRANCH

Channel bottom material: EARTH CHANNEL WITH WEEDS

Direction of flow: Right

Terrain: Hilly

Drainage Area: 0.29 sq. mi> How obtained: USGS TOPO MAP

Present Structure:

Description: SINGLE SPAN STEEL I-BEAM

Begin Station & Offset 39+03.65 , 0.00

End Station & Offset: 39+44.11 , 0.00

Low Beam Elev:1044.015′ Location: 10.24′ RT. 39+03.56

Inv. Elev. (culverts) Inlet: Outlet:

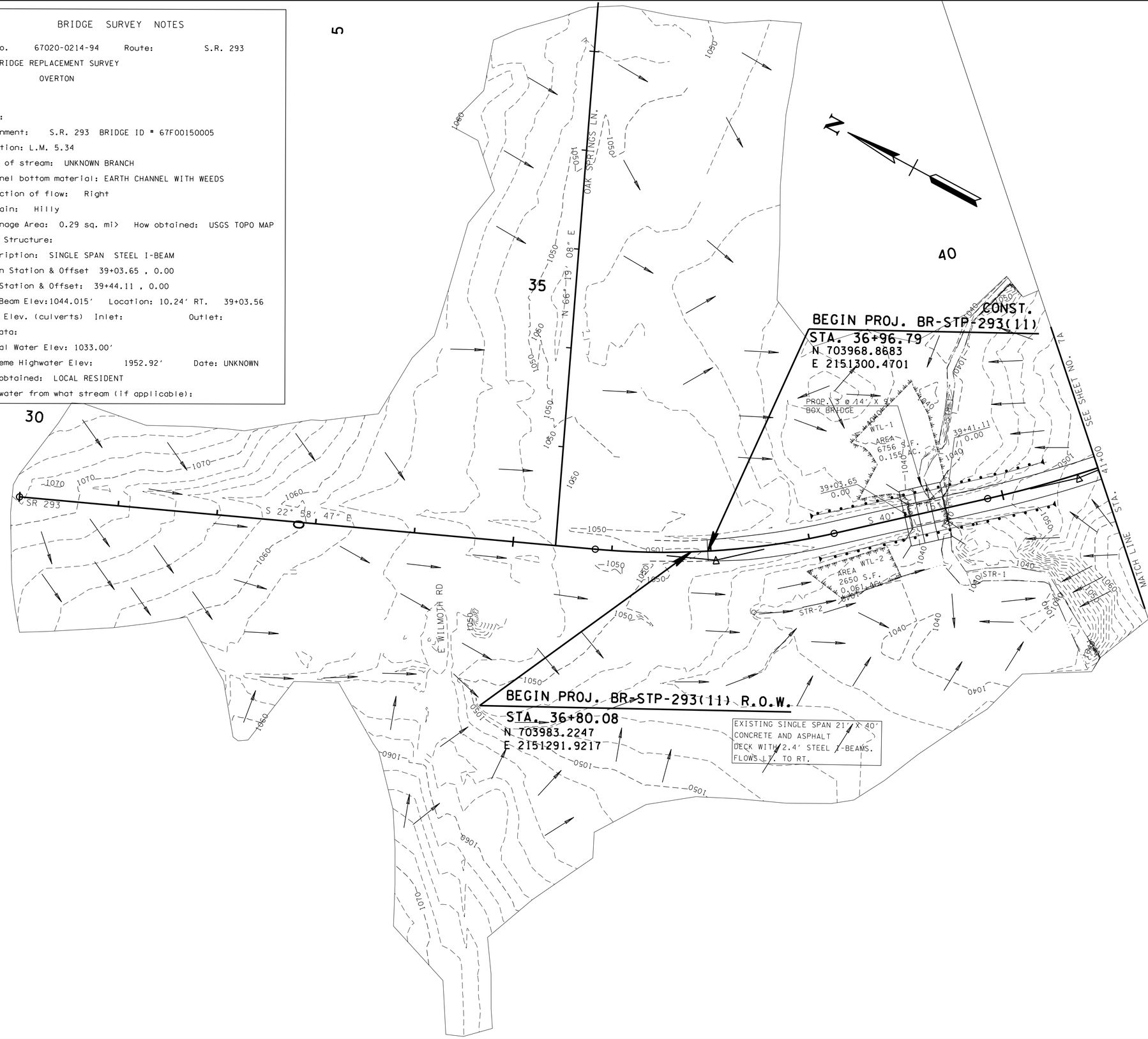
Water Data:

Normal Water Elev: 1033.00′

Extreme Highwater Elev: 1952.92′ Date: UNKNOWN

How obtained: LOCAL RESIDENT

Backwater from what stream (if applicable):



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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NO. 106422
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 36+00 TO STA. 41+00

SCALE: 1"= 50′

24-MAR-2015 09:16
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	7A
CONST.	2015	BR-STP-293(11)	7A

REV. 5-13-2014: CHANGED END R.O.W. PROJECT LIMIT.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.41+00 TO STA.47+24.62

SCALE: 1"= 50'

24-MAR-2015 09:16
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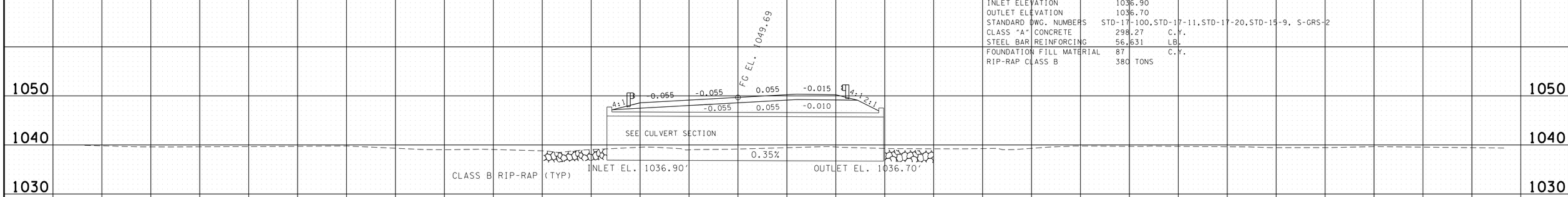
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BR-STP-293(11)	8

STATION	39+20
STRUCTURE	56.57' of 3 @ 14'x9' BOX BRIDGE
SKEW	90°
DRAINAGE AREA	2.02 mi²
DESIGN DISCHARGE (Q100)	1440 CFS
Q100 BACKWATER	0.35 FT. at EL. 1045.90
VELOCITY (Q100)	4.81 FT/S
500 YR DISCHARGE	1930 CFS at EL. 1047.01
INLET ELEVATION	1036.90
OUTLET ELEVATION	1036.70
STANDARD DWG. NUMBERS	STD-17-100,STD-17-11,STD-17-20,STD-15-9, S-GRS-2
CLASS "A" CONCRETE	298.27 C.Y.
STEEL BAR REINFORCING	56.631 LB.
FOUNDATION FILL MATERIAL	87 C.Y.
RIP-RAP CLASS B	380 TONS



SR293
39+20.00

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CULVERT CROSS-SECTIONS

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

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	8
CONST.	2015	BR-STP-293(11)	9

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAM/WETLAND

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

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

NPDES

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

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

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

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

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

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

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

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

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

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

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

UTILITY RELOCATION

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

(11) SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY

(12) UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO UTILITIES IN THIS PROJECT IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC). THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP).

(13) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM THEIR OPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

(14) FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOIL OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.

(15) IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT, THEREFORE, THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTIONS PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.

(16) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

(17) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.

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

(19) THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO REPLACE IN-PLACE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT PROJECT ENGINEER BEFORE COMMENCING WORK.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	8A
CONST.	2015	BR-STP-293(11)	9A

REV. 8-8-2014: CHANGED WETLAND IMPACT TABLE 1 TO INCLUDE ONLY AREA INSIDE ROW. REMOVED HATCHING FROM WTL-1 AND MODIFIED HVF AND SFB AROUND WTL-1 AND STR-1.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	209-05	SEDIMENT REMOVAL	C.Y.	45
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	552
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	173
	209-08.07	ROCK CHECK DAM PER	EACH	13
	209-09.02	TEMPORARY SEDIMENT FILTER BAG (14'6" X 2'0" X 13'3")	BAG	2
	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	92
	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	10
(1)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	165
	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	100
(2)	740-10.03	GEO-TEXTILE FABRIC (TYPE III)	S.Y.	263
(3)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	78
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	18
	801-02.01	CROWN VETCH MIXTURE (WITHOUT MULCH)	UNIT	5
	801-03	WATER (SEEDING & SODDING)	M.G.	18
	803-01	SODDING (NEW SOD)	S.Y.	1581
(4)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	439

1) SEE SUBSECTION 209.07 OF STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
2) 167 S.Y. USED FOR TEMPORARY CONSTRUCTION EXITS AND 96 S.Y. USED FOR SEDIMENT FILTER BAG
3) USED FOR TEMPORARY CONSTRUCTION EXITS. TO BE LOCATED AS DIRECTED BY THE ENGINEER.
4) TO BE USED IN AREA OF ROCK FILL.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

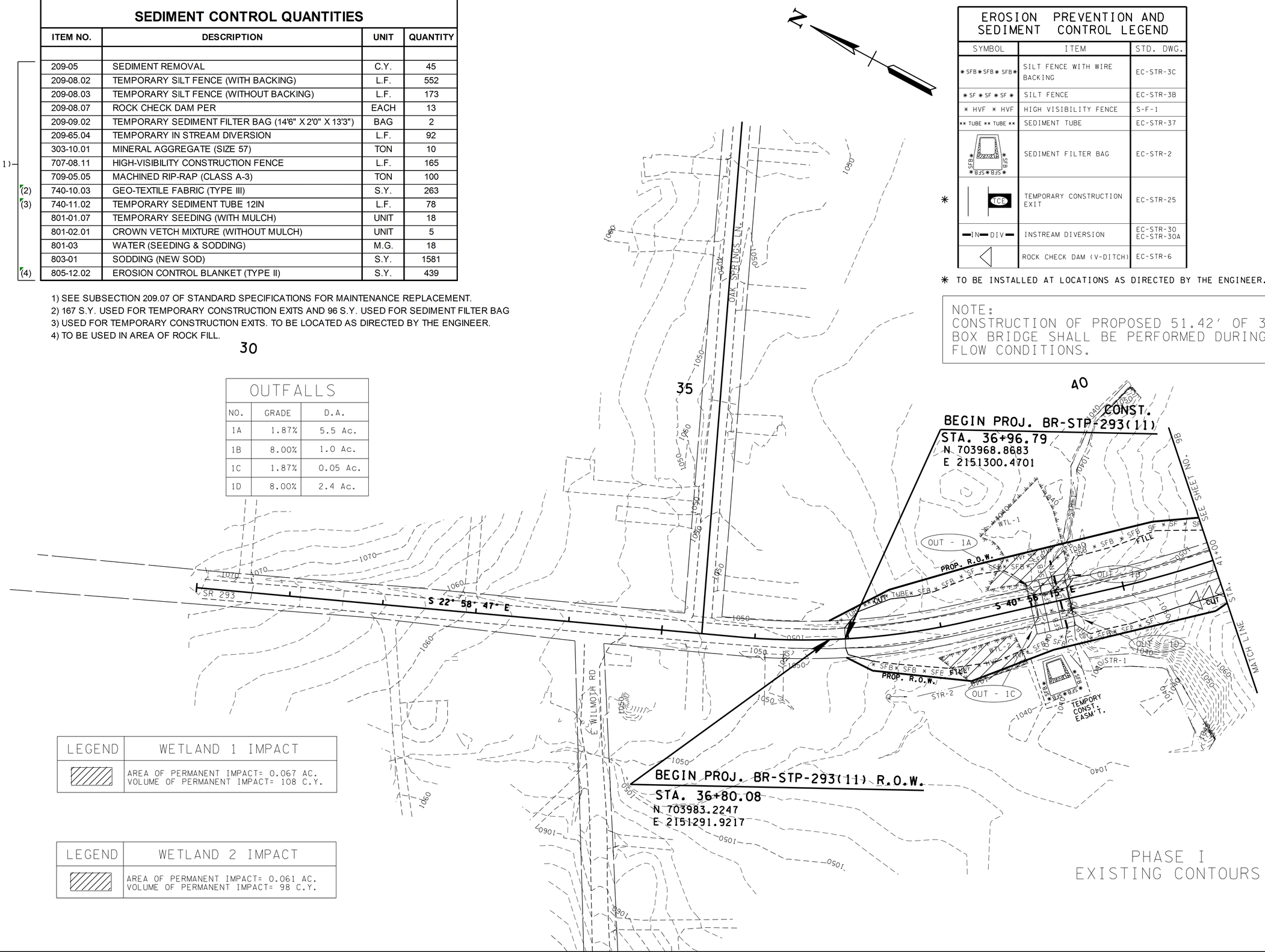
	SYMBOL	ITEM	STD. DWG.
	* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	* SF * SF * SF *	SILT FENCE	EC-STR-3B
	* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
	** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	SFB * * SFB SFB * * SFB	SEDIMENT FILTER BAG	EC-STR-2
*	TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
		ROCK CHECK DAM (V-DITCH)	EC-STR-6

* TO BE INSTALLED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

NOTE:
CONSTRUCTION OF PROPOSED 51.42' OF 3@14'X 9' BOX BRIDGE SHALL BE PERFORMED DURING LOW FLOW CONDITIONS.

OUTFALLS

NO.	GRADE	D.A.
1A	1.87%	5.5 Ac.
1B	8.00%	1.0 Ac.
1C	1.87%	0.05 Ac.
1D	8.00%	2.4 Ac.



LEGEND	WETLAND 1 IMPACT
	AREA OF PERMANENT IMPACT= 0.067 AC. VOLUME OF PERMANENT IMPACT= 108 C.Y.

LEGEND	WETLAND 2 IMPACT
	AREA OF PERMANENT IMPACT= 0.061 AC. VOLUME OF PERMANENT IMPACT= 98 C.Y.

PHASE I
EXISTING CONTOURS

UNOFFICIAL SET
NOT FOR BIDDING

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

COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 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. 36+00 TO STA. 41+00
SCALE: 1"= 50'

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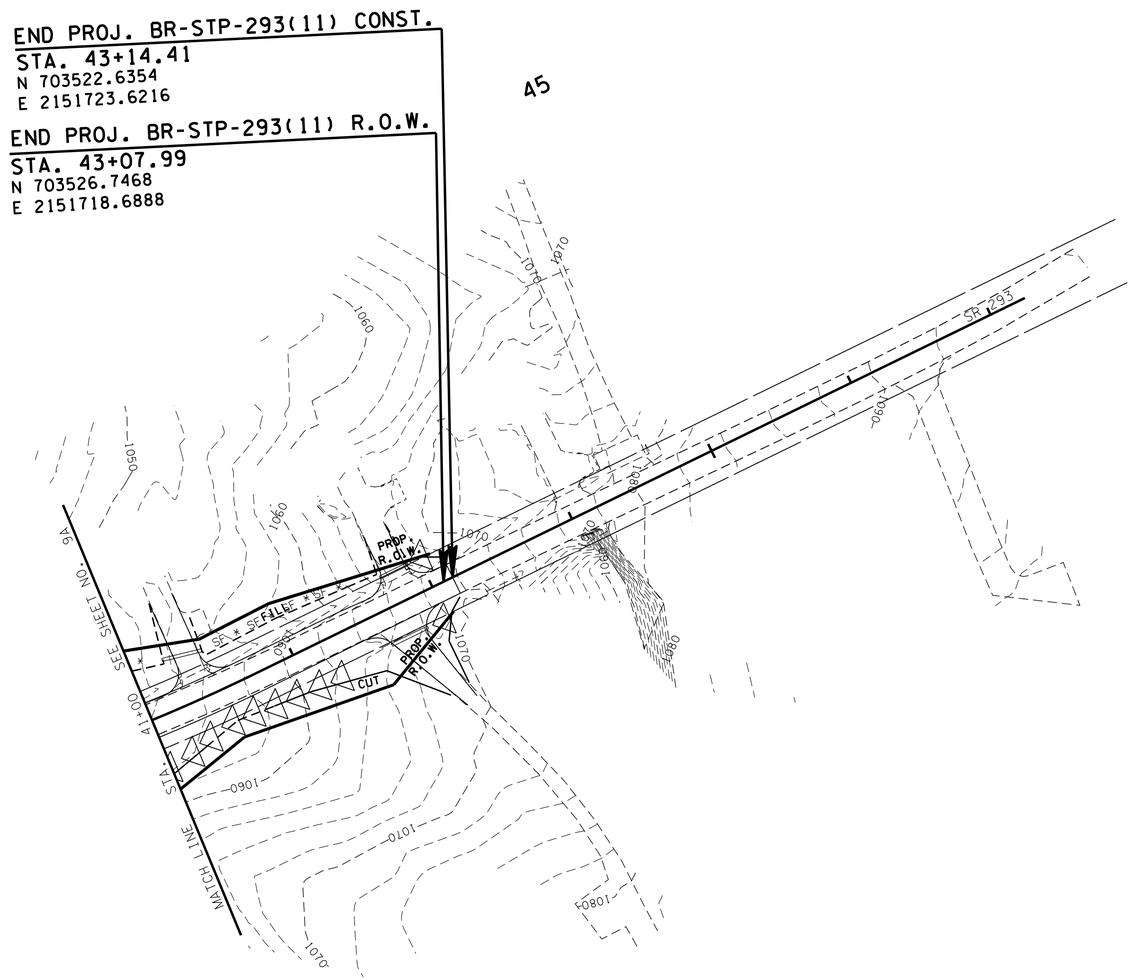
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	8B
CONST.	2015	BR-STP-293(11)	9B

REV. 5-13-2014: CHANGED END R.O.W. PROJECT LIMIT.



PHASE I
EXISTING CONTOURS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.41+00 TO STA.47+24.62

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	8C
CONST.	2015	BR-STP-293(11)	9C

REV. 8-8-2014: ADDED WTL-1 AND MODIFIED HVF AND SFB AROUND WTL-1 AND STR-1.

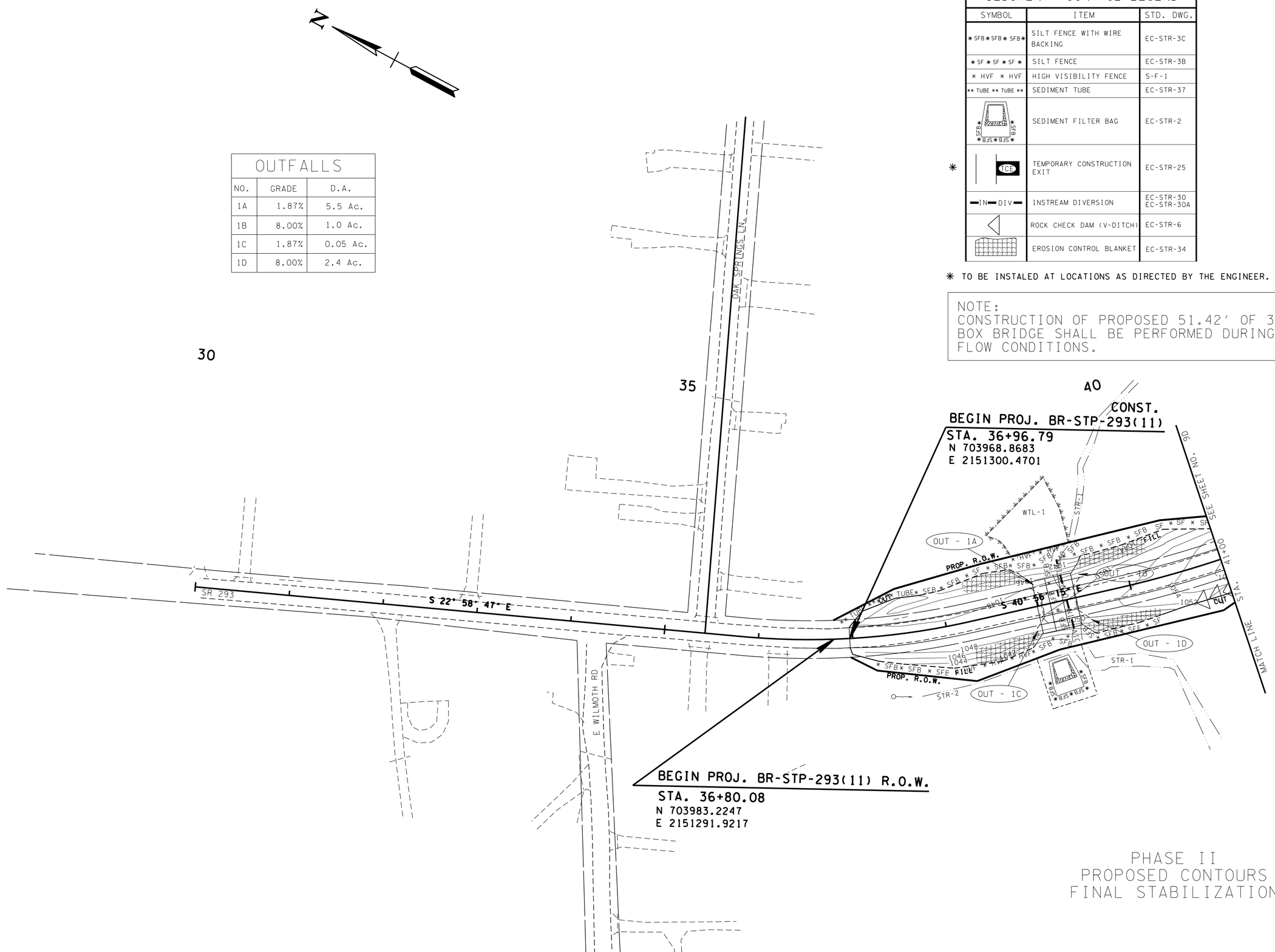
EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
* SFB * SFB * SFB * SFB	SEDIMENT FILTER BAG	EC-STR-2
* TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	EROSION CONTROL BLANKET	EC-STR-34

* TO BE INSTALED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

NOTE:
CONSTRUCTION OF PROPOSED 51.42' OF 3@14'X 9' BOX BRIDGE SHALL BE PERFORMED DURING LOW FLOW CONDITIONS.

OUTFALLS		
NO.	GRADE	D.A.
1A	1.87%	5.5 Ac.
1B	8.00%	1.0 Ac.
1C	1.87%	0.05 Ac.
1D	8.00%	2.4 Ac.



PHASE II
PROPOSED CONTOURS
FINAL STABILIZATION

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
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NO. 106423
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COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 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.36+00 TO STA.41+00

SCALE: 1"= 50'

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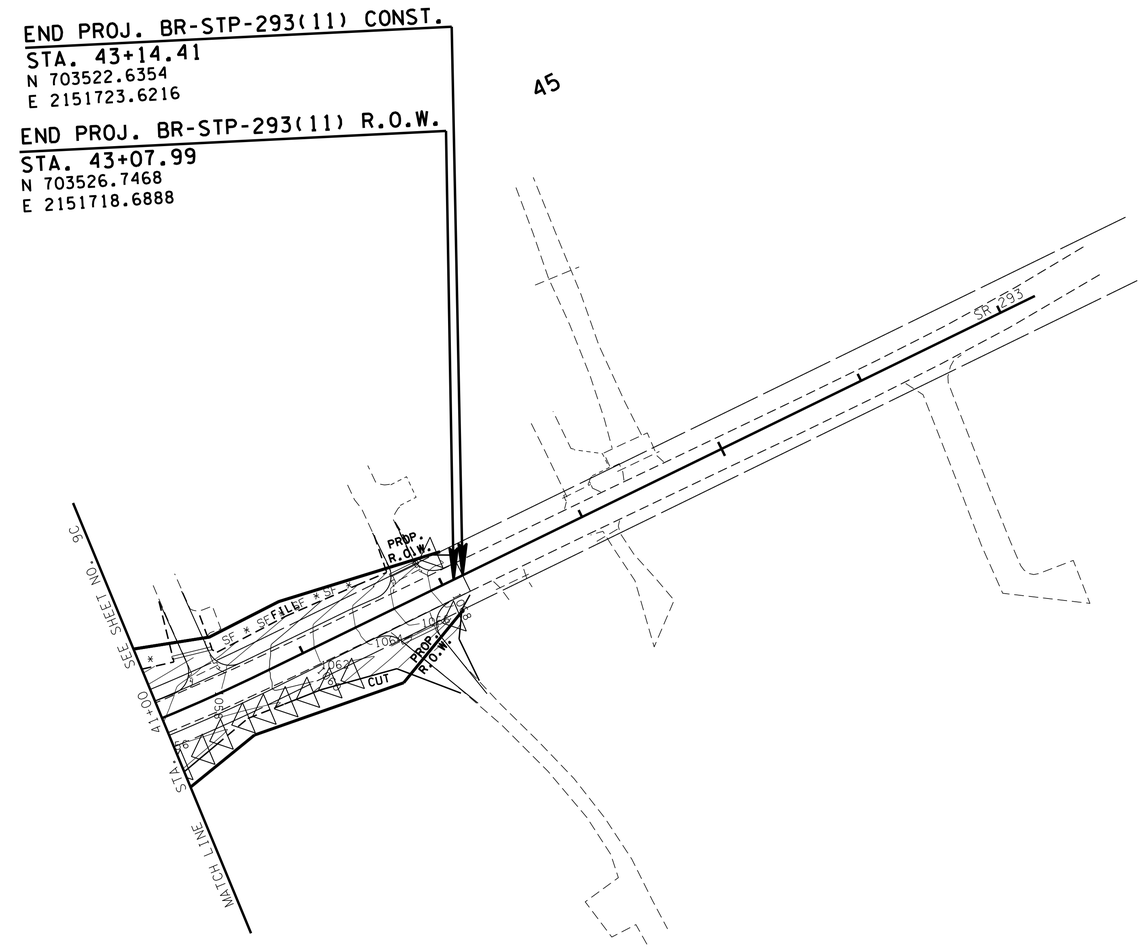
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	8D
CONST.	2015	BR-STP-293(11)	9D

REV. 5-13-2014: CHANGED END R.O.W. PROJECT LIMIT.



PHASE II
PROPOSED CONTOURS
FINAL STABILIZATION

UNOFFICIAL SET

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SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 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.41+00 TO STA.47+24.62

SCALE: 1"= 50'

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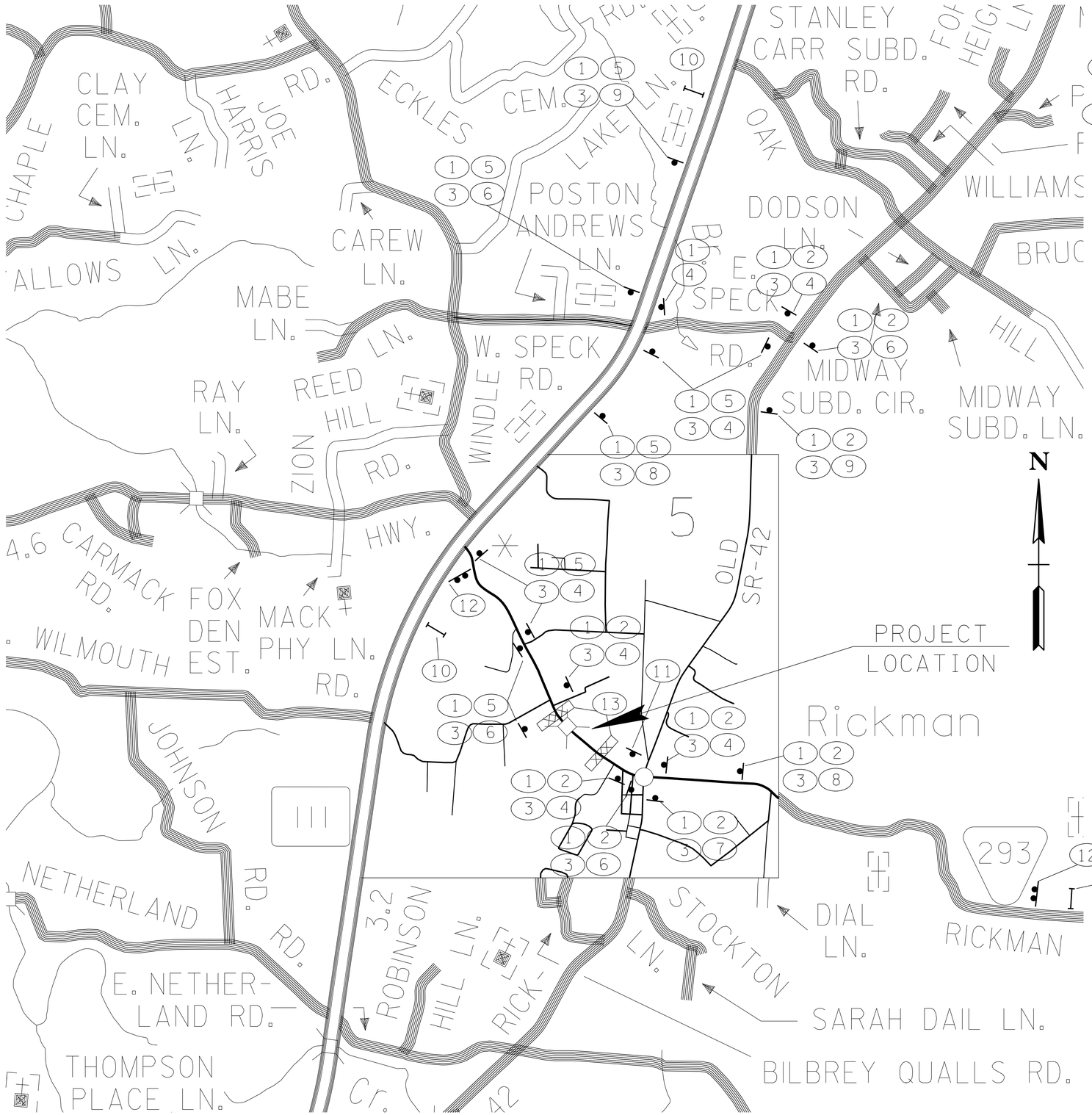
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	9
CONST.	2015	BR-STP-293(11)	10



1 DETOUR M4-8 24" X 12"
2 WEST M3-4 24" X 12"
3 293 TN-6B 30" X 24"
4 M6-1R 21" X 15"

1 DETOUR M4-8 24" X 12"
5 EAST M3-2 24" X 12"
3 293
6 M6-1L 21" X 15"

7 M6-3 21" X 15"

8 M5-1R 21" X 15"

9 M5-1L 21" X 15"

10 CHANGEABLE MESSAGE SIGN UNIT

11 END DETOUR M4-8A 24" X 18"

12 ROAD CLOSED MILE AHEAD LOCAL TRAFFIC ONLY R11-3A 60" X 30"

13 ROAD CLOSED R11-2 48" X 30"

TYPE III BARRICADE ROAD CLOSURE w/ TYPE A WARNING LIGHTS

DETOUR:
SR-111 TRAFFIC WILL USE SPECK ROAD TO OLD SR-42 TO SR-293.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106473
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

SCALE: 1"=1000'

24-MAR-2015 09:17
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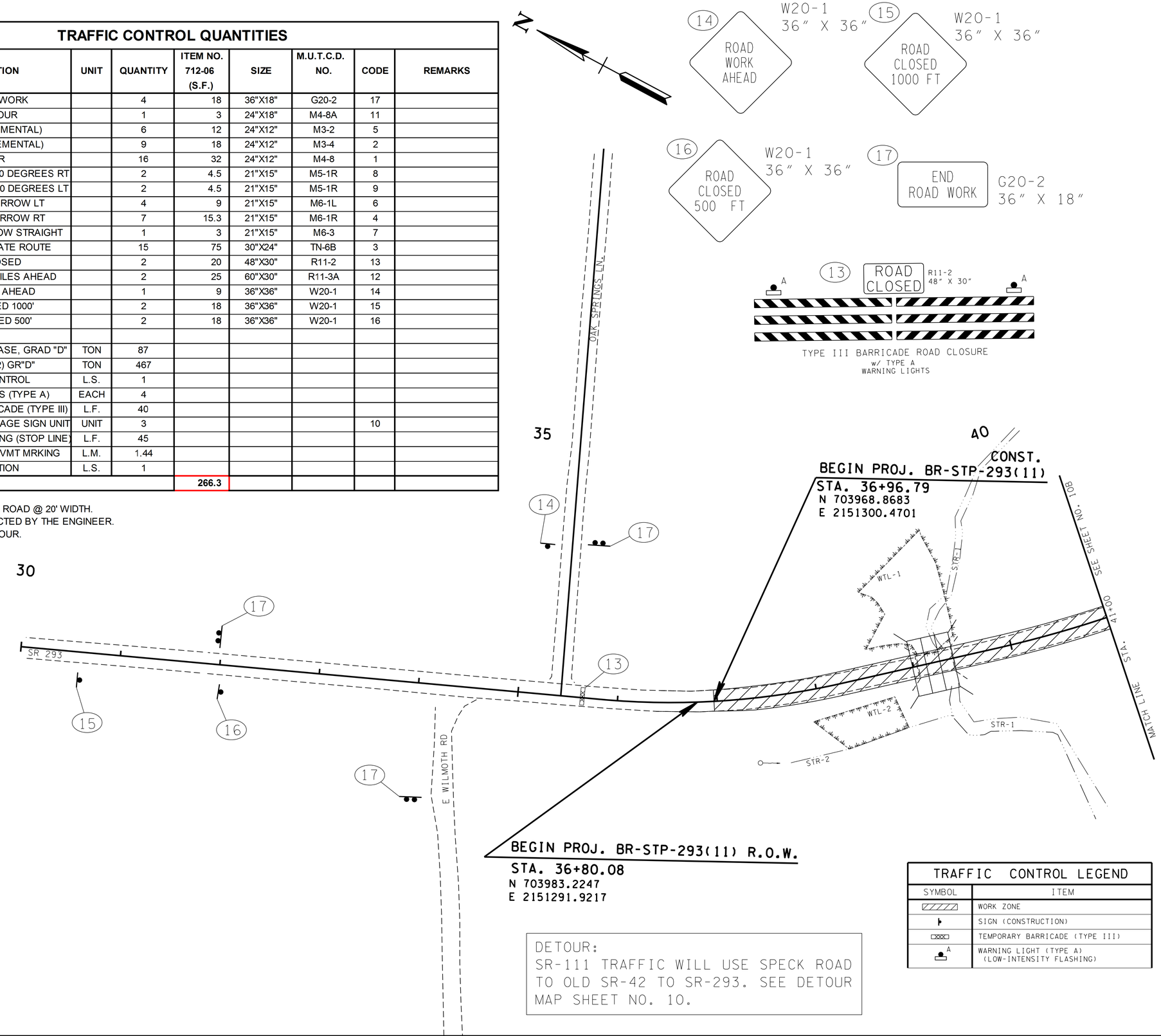
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	9A
CONST.	2015	BR-STP-293(11)	10A

TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	CODE	REMARKS
		END ROAD WORK		4	18	36"X18"	G20-2	17	
		END DETOUR		1	3	24"X18"	M4-8A	11	
		EAST (SUPPLEMENTAL)		6	12	24"X12"	M3-2	5	
		WEST (SUPPLEMENTAL)		9	18	24"X12"	M3-4	2	
		DETOUR		16	32	24"X12"	M4-8	1	
		ADVANCE ARROW-90 DEGREES RT		2	4.5	21"X15"	M5-1R	8	
		ADVANCE ARROW-90 DEGREES LT		2	4.5	21"X15"	M5-1R	9	
		DIRECTIONAL ARROW LT		4	9	21"X15"	M6-1L	6	
		DIRECTIONAL ARROW RT		7	15.3	21"X15"	M6-1R	4	
		DIRECTIONAL ARROW STRAIGHT		1	3	21"X15"	M6-3	7	
		SECONDARY STATE ROUTE		15	75	30"X24"	TN-6B	3	
		ROAD CLOSED		2	20	48"X30"	R11-2	13	
		ROAD CLOSED MILES AHEAD		2	25	60"X30"	R11-3A	12	
		ROAD WORK AHEAD		1	9	36"X36"	W20-1	14	
		ROAD CLOSED 1000'		2	18	36"X36"	W20-1	15	
		ROAD CLOSED 500'		2	18	36"X36"	W20-1	16	
	303-01	MIN AGG, TYPE A BASE, GRAD "D"	TON	87					
(1)	411-01.10	ACS (PG64-22) GR"D"	TON	467					
	712-01	TRAFFIC CONTROL	L.S.	1					
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	4					
	712-07.03	TEMPORARY BARRICADE (TYPE III)	L.F.	40					
(2)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	UNIT	3				10	
(3)	716-05.05	PAINTED PVMT MRKING (STOP LINE)	L.F.	45					
(3)	716-13.01	SPRAY THERMO PVMT MRKING	L.M.	1.44					
	717-01	MOBILIZATION	L.S.	1					
	TOTAL				266.3				

(1) 0.53 MILES USED ON SPECK ROAD @ 20' WIDTH.
(2) USED WHERE AND AS DIRECTED BY THE ENGINEER.
(3) USED ON SPECK ROAD DETOUR.



DETOUR:
SR-111 TRAFFIC WILL USE SPECK ROAD TO OLD SR-42 TO SR-293. SEE DETOUR MAP SHEET NO. 10.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	TEMPORARY BARRICADE (TYPE III)
A	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.36+00 TO STA.41+00

SCALE: 1"= 50'

24-MAR-2015 09:17
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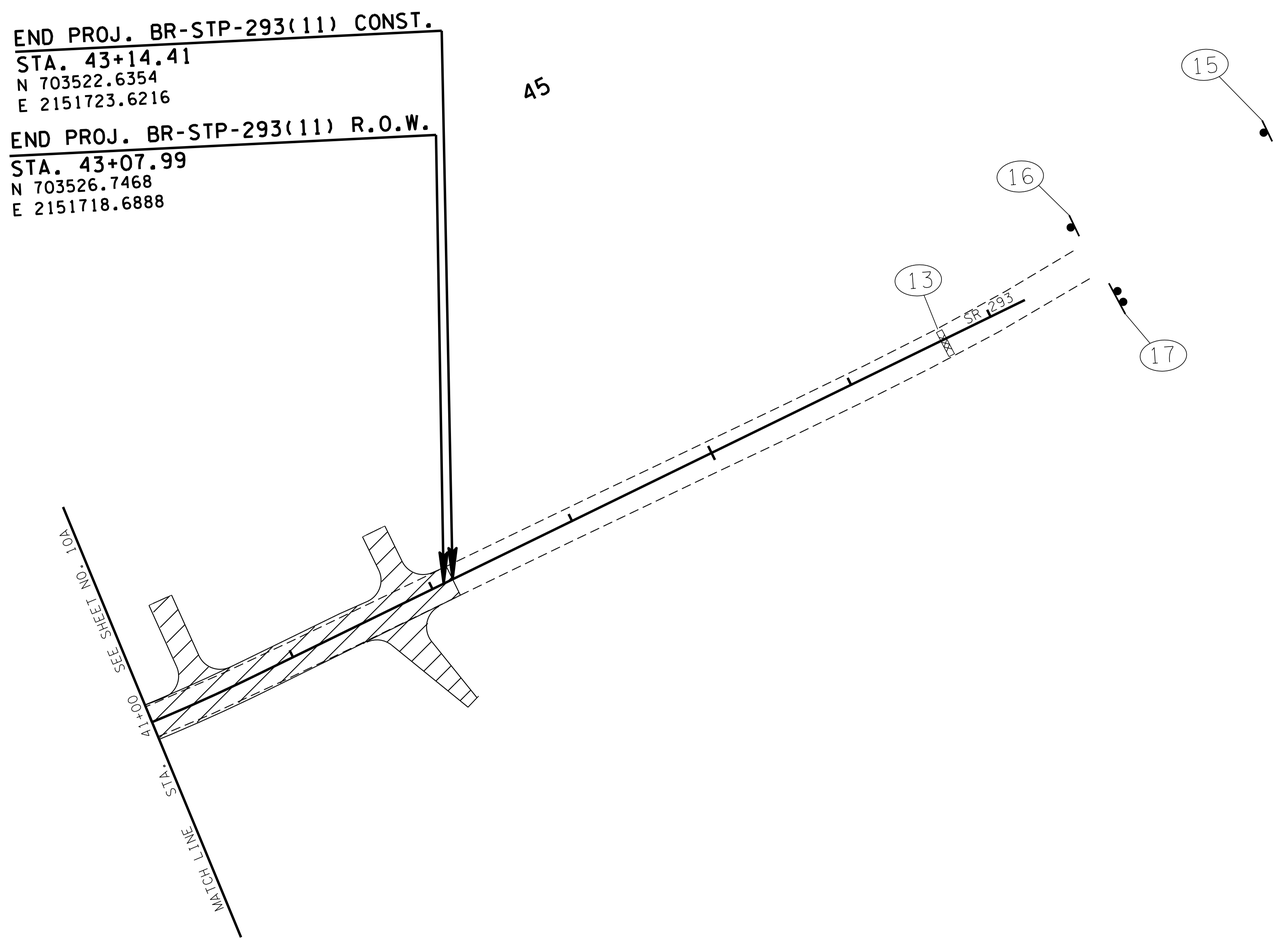
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	9B
CONST.	2015	BR-STP-293(11)	10B

REV. 5-13-2014: CHANGED END R.O.W. PROJECT LIMIT.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

STA.41+00 TO STA.47+24.62

SCALE: 1"= 50'

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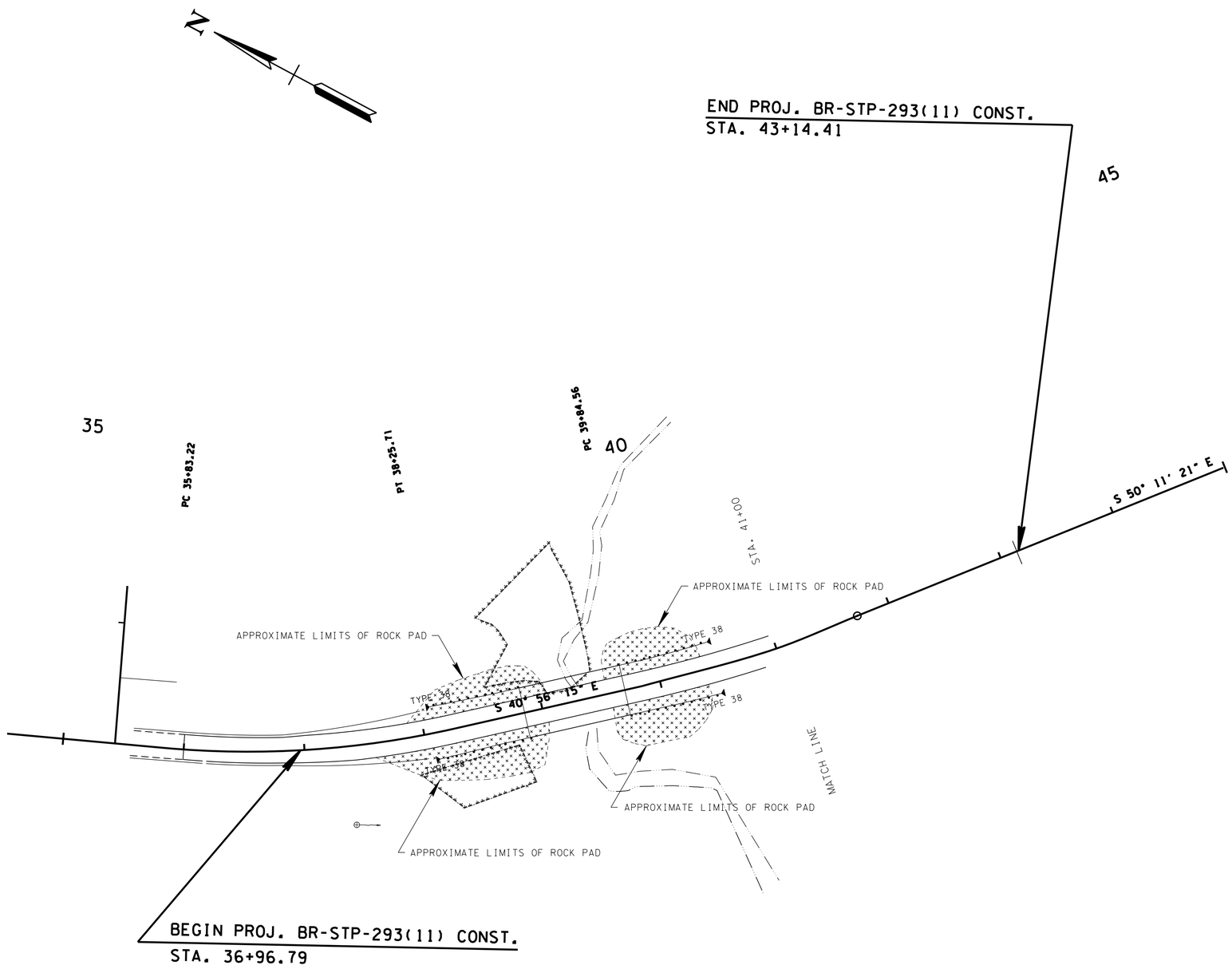
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	10
CONST.	2015	BR-STP-293(11)	11

REV. 5-13-2014: CHANGED END R.O.W. PROJECT LIMIT.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
SR-293
OVERTON CO.

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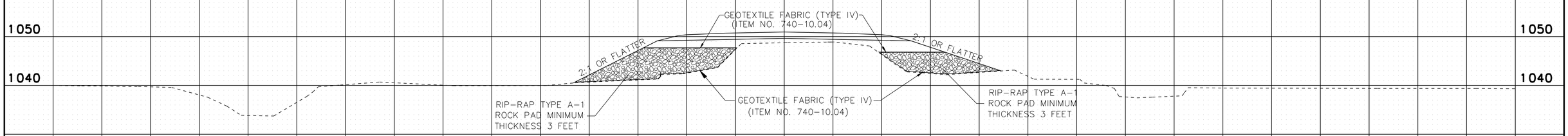
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	10A
CONST.	2015	BR-STP-293(11)	11A

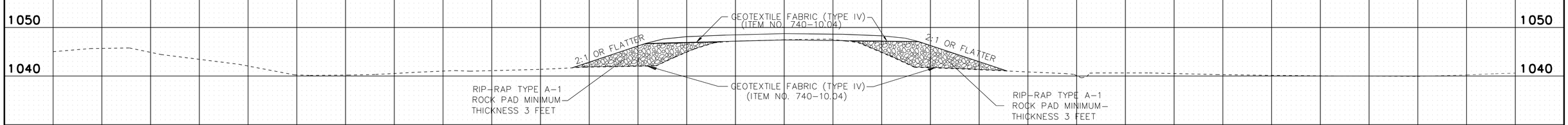
REPRESENTATIVE OF STATION 39+42.34 TO STATION 40+25.00



NOTE:

EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 7 (JANUARY 1, 2015).

REPRESENTATIVE OF STATION 38+25.00 TO STATION 38+97.67



NOTE:

EXISTING EMBANKMENT TO BE PREBENCHED ACCORDING TO TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUB SECTION 205.03 PARAGRAPH 7 (JANUARY 1, 2015).

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

ROBERT JOWERS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 103006
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOILS
STATE ROUTE 293
OVERTON COUNTY

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

3/16/2015 11:48 AM
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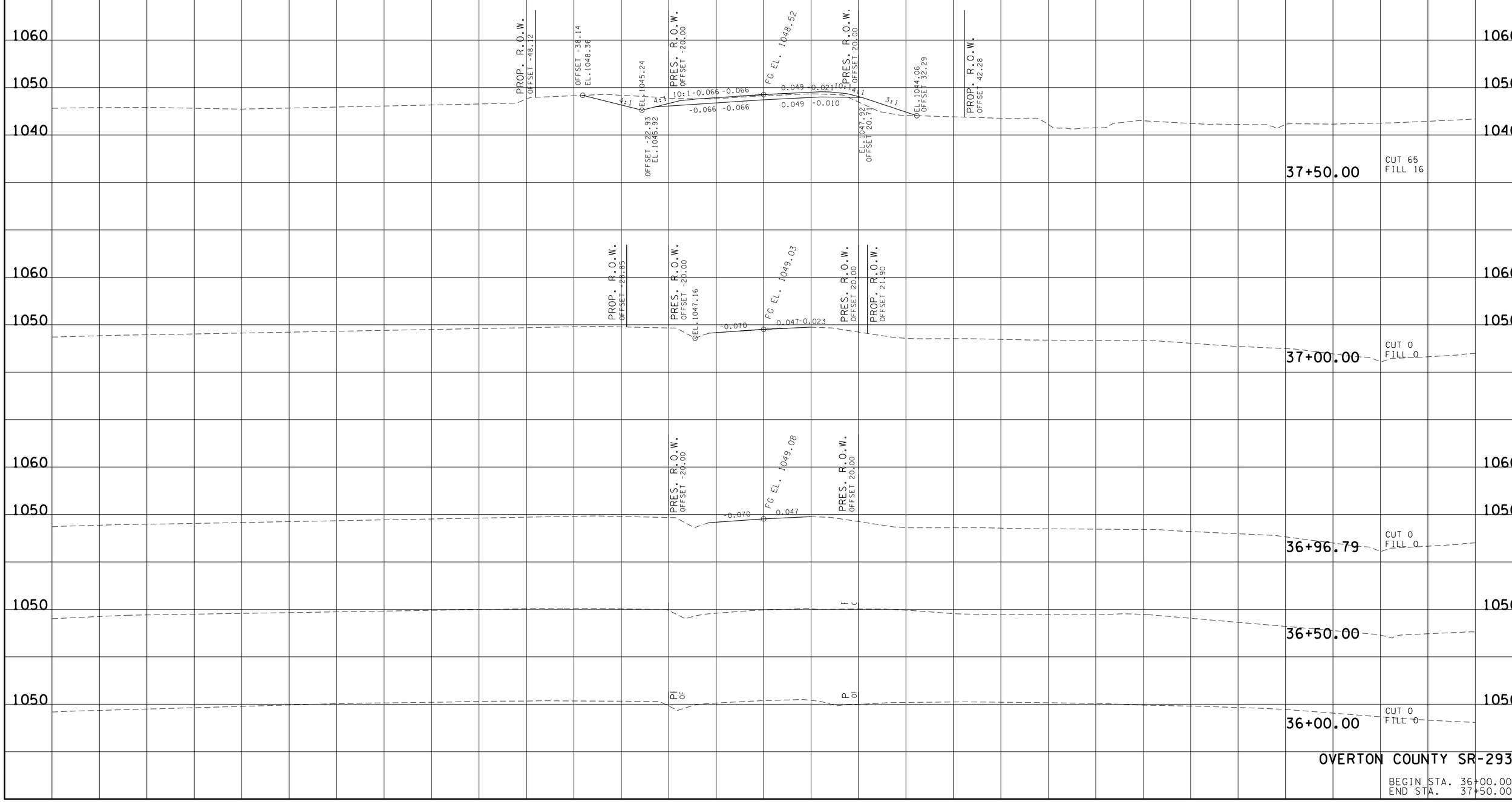
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	11
CONST.	2015	BR-STP-293(11)	12



OVERTON COUNTY SR-293

BEGIN STA. 36+00.00
END STA. 37+50.00

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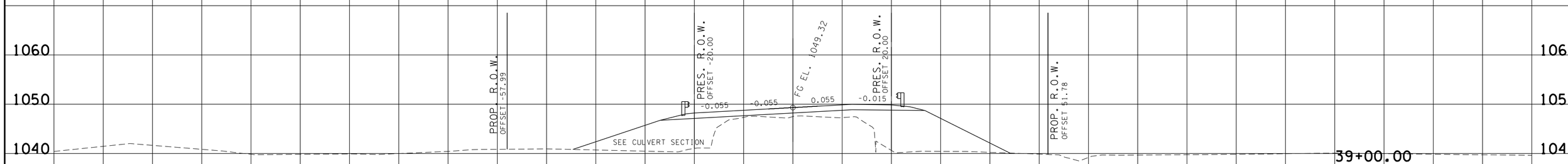
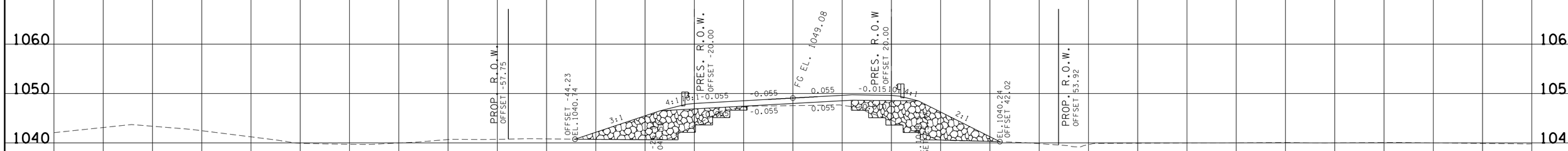
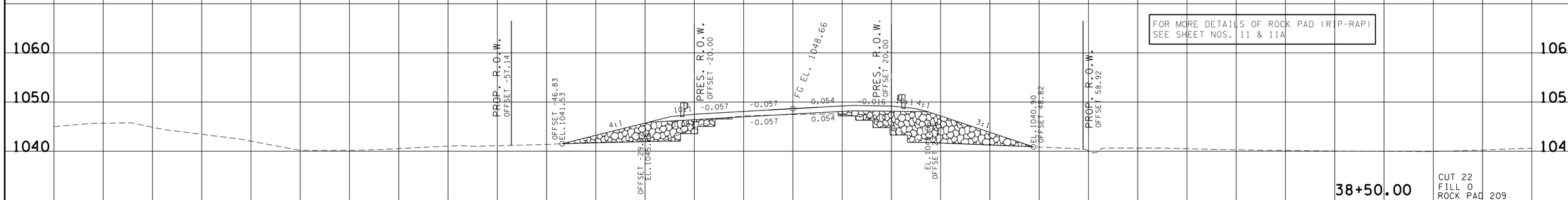
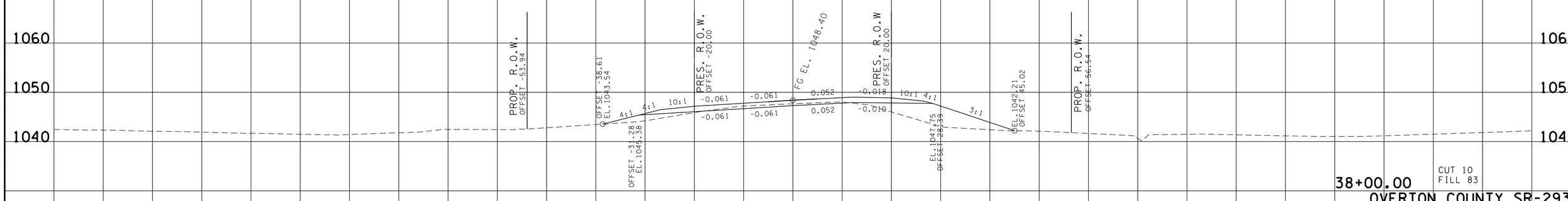
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	12
CONST.	2015	BR-STP-293(11)	13









OVERTON COUNTY SR-293

BEGIN STA. 38+00.00
END STA. 39+00.00

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

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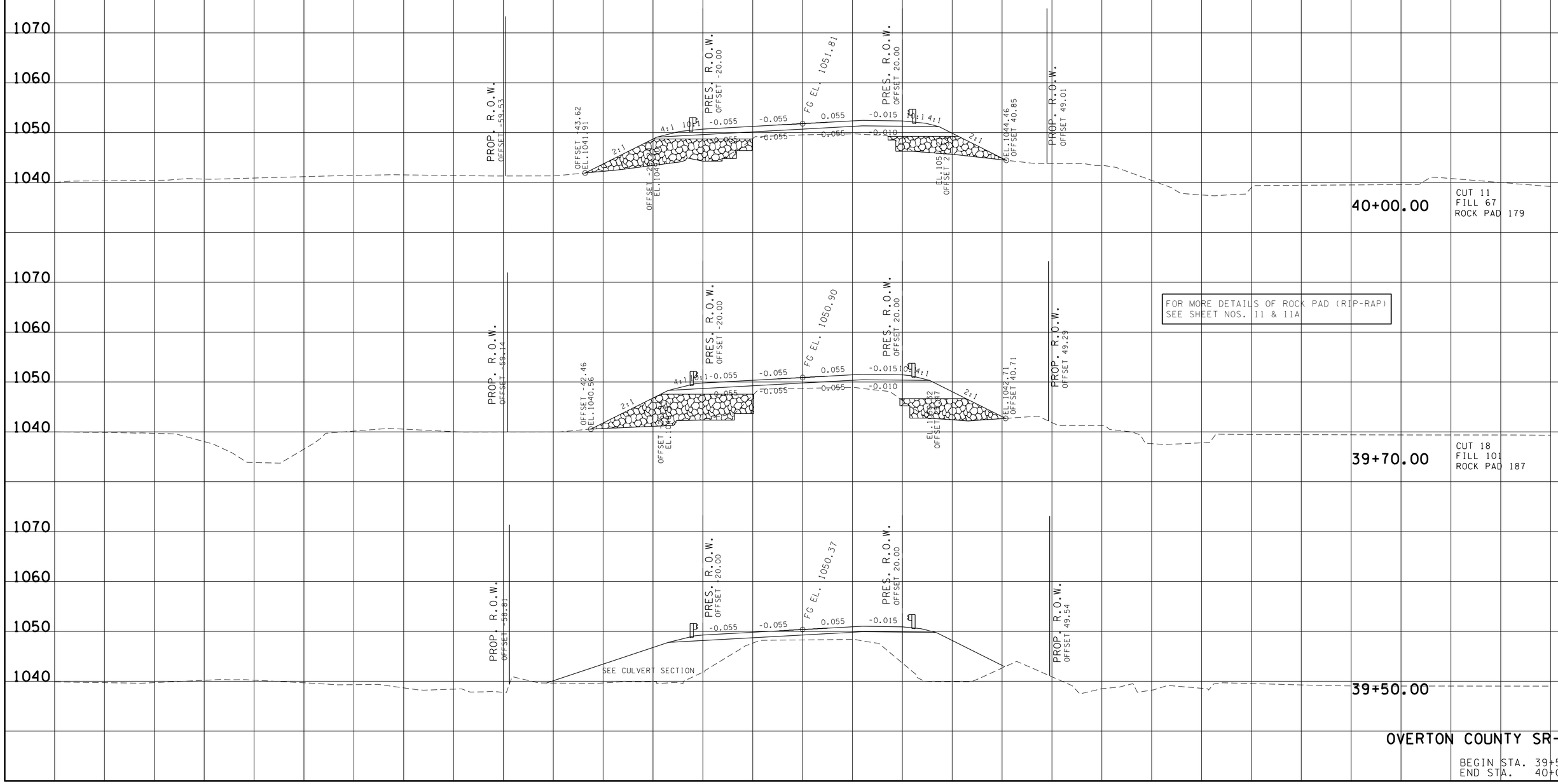
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	13
CONST.	2015	BR-STP-293(11)	14



OVERTON COUNTY SR-293

BEGIN STA. 39+50.00
END STA. 40+00.00

24-MAR-2015 09:17
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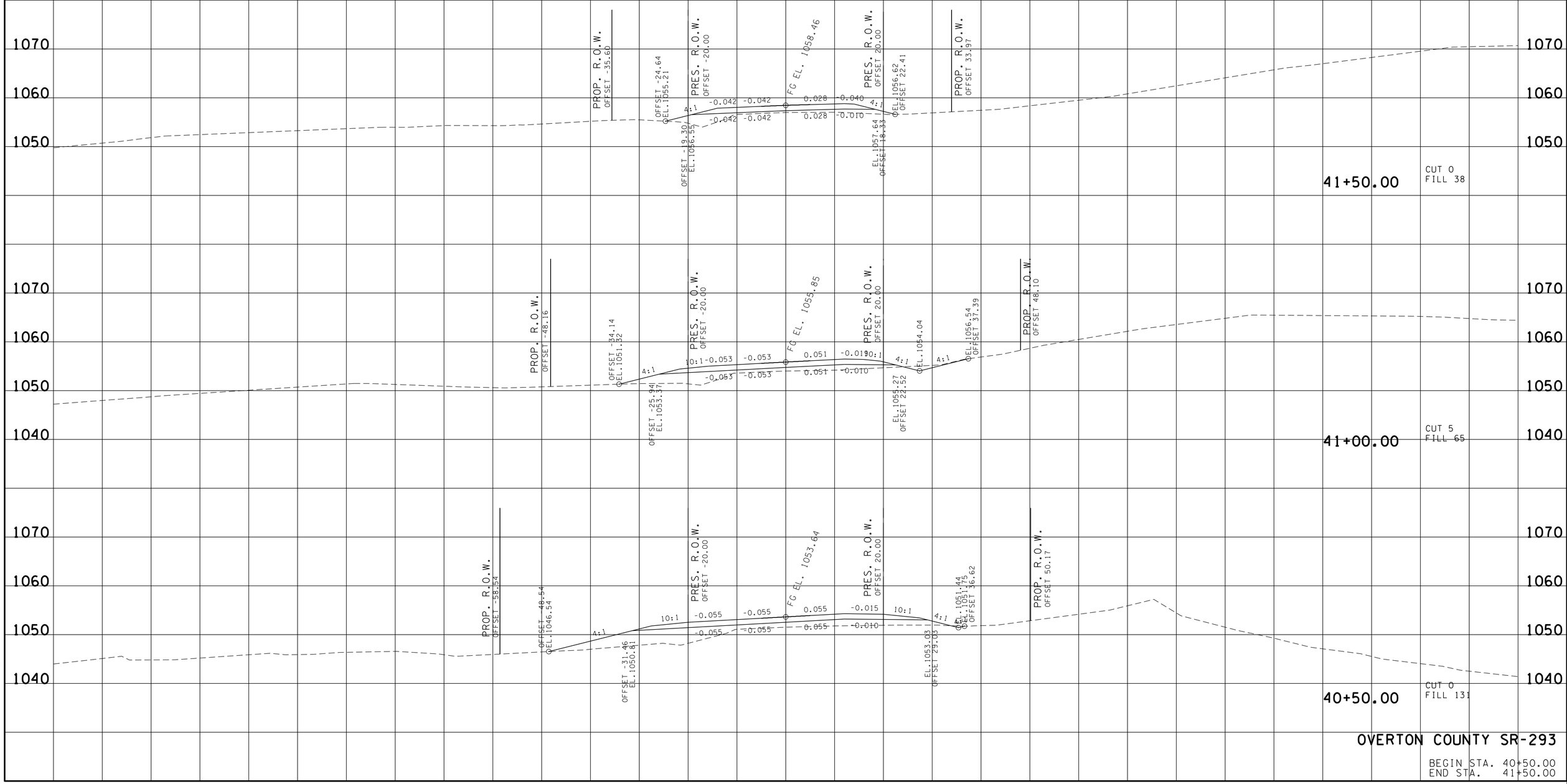
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	14
CONST.	2015	BR-STP-293(11)	15



OVERTON COUNTY SR-293

BEGIN STA. 40+50.00
END STA. 41+50.00

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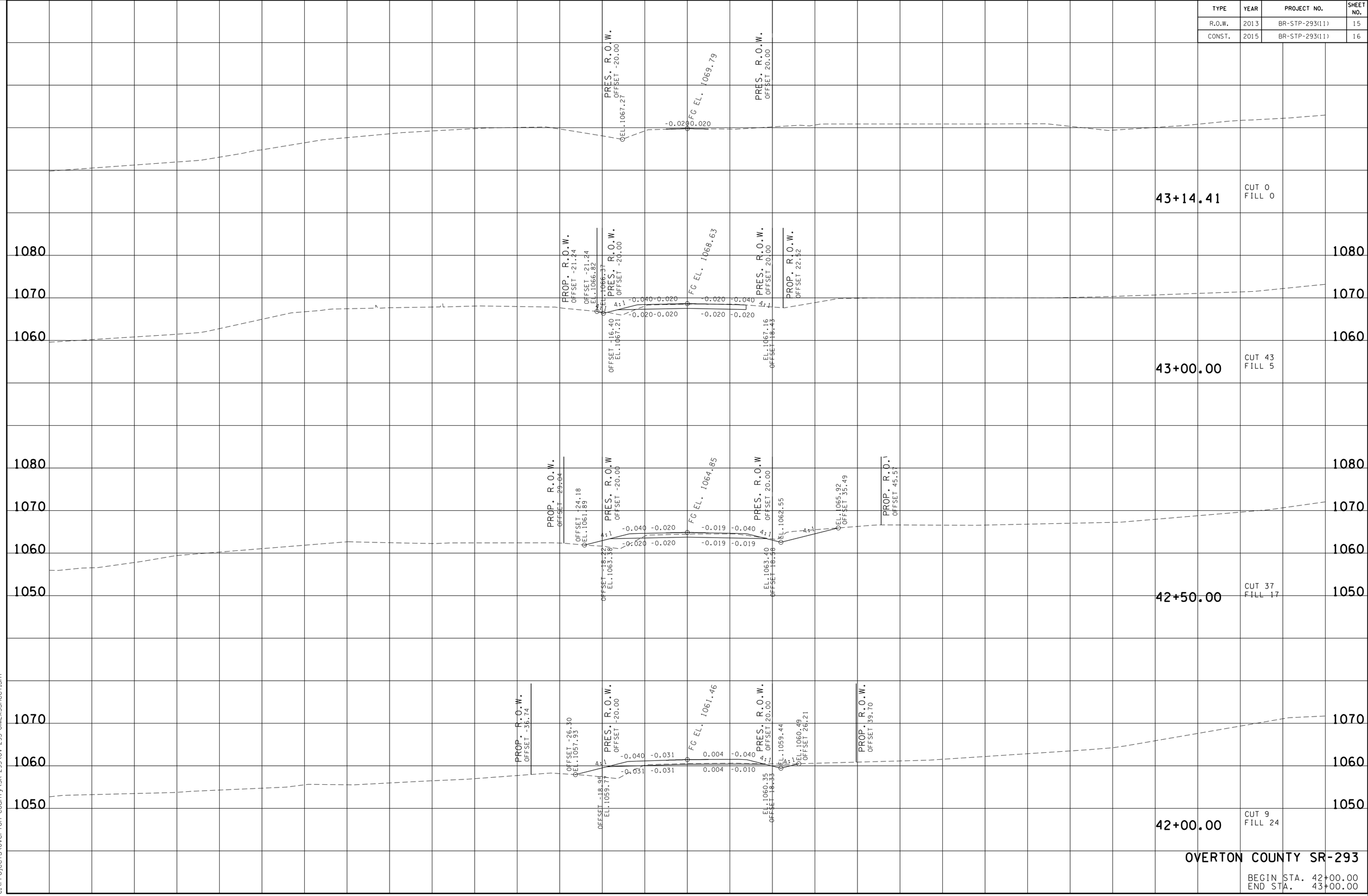
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	BR-STP-293(11)	15
CONST.	2015	BR-STP-293(11)	16



OVERTON COUNTY SR-293

BEGIN STA. 42+00.00
END STA. 43+00.00

24-MAR-2015 09:18
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