

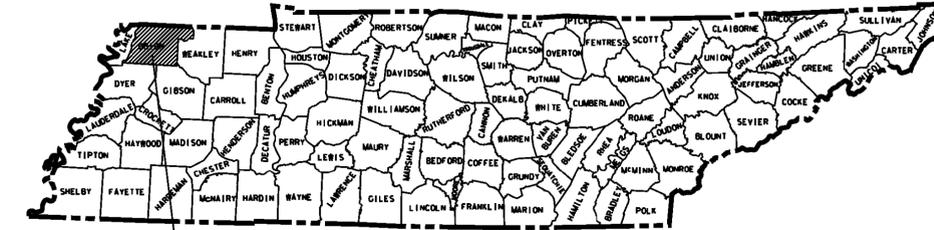
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING

**OBION COUNTY**

FORESDALE AVENUE  
BRIDGE OVER SOUTH FORK HARRIS FORK CREEK (LM.O.79)  
BR. # 66L29440001

**CONSTRUCTION PLANS**  
GRADE, DRAIN, STRUCTURE, BASE AND SURFACE,  
PAVEMENT MARKING AND GUARDRAIL  
STATE HIGHWAY NO. N.A. F.A.H.S. NO. N.A.

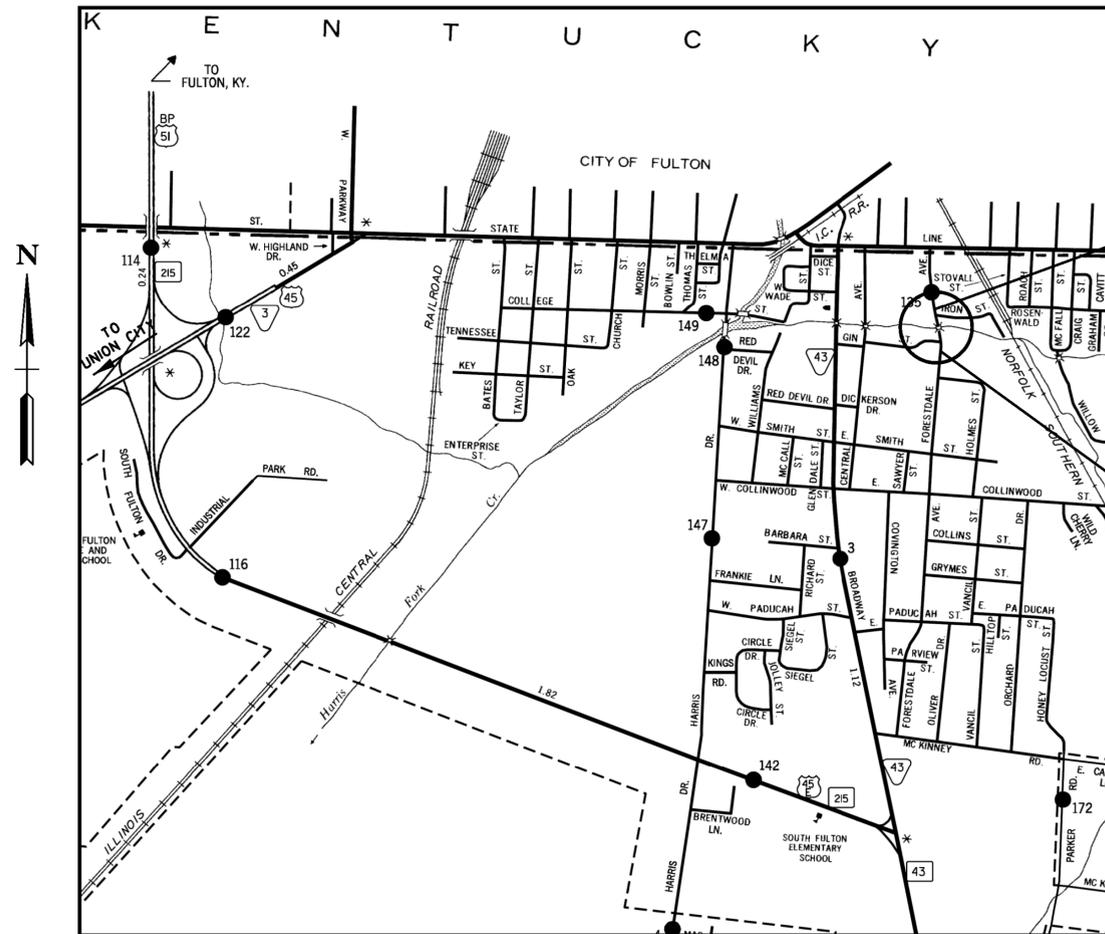
TENN.	YEAR 2015	SHEET NO. 1
FED. AID PROJ. NO.	BRZE-6600(15)	
STATE PROJ. NO.	66955-3523-94	



PROJECT LOCATION

NOTE:  
ANY SALVAGEABLE MATERIAL FROM REMOVAL OF EXISTING  
STRUCTURE TO BECOME PROPERTY OF OBION COUNTY.

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**



END PROJECT NO. 66955-3523-94 (CONST.)  
STA. 17+50.00  
N 801375.5174  
E 1124287.3129

ROAD WILL BE CLOSED FOR BRIDGE CONSTRUCTION

BEG. PROJECT NO. 66955-3523-94 (CONST.)  
STA. 14+00.00  
N 801031.4710  
E 1124351.5350

NO EXCLUSIONS  
NO EQUATIONS

SEALED BY

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

DATE:

APPROVED: *John Schroer*  
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

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

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

TDOT C.E. MANAGER 1 OR  
TDOT DESIGN MANAGER 1 JERRY G. HUGHES, SR.

DESIGNED BY BUCHART HORN INC.  
DESIGNER ED KOZLOWSKI CHECKED BY A. PINKLEY, PE

P.E. NO. 66955-1521-94

PIN NO. 100622.00

ROADWAY LENGTH	0.053 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.009 MILES
PROJECT LENGTH	0.062 MILES

SURVEY UPDATES: JANUARY 29, 2014

TRAFFIC DATA	
ADT (2014)	660
ADT (2034)	730
DHV (2034)	95
D	65-35
T (ADT)	3 %
T (DHV)	2 %
V	40 MPH

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

TENN.	YEAR 2014	SHEET NO. 1
FED. AID PROJ. NO.	BRZE-6600(15)	
STATE PROJ. NO.	66955-2522-94	

REV. 7/28/14: ADDED SHEET 8A TO PLANS  
REV. 10/16/14 SHEET 8A DELETED FROM PLANS

# Index Of Sheets

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-2A	TYPICAL SECTIONS
3	PROPERTY MAP
3A	R.O.W. ACQUISITION TABLE
4	PRESENT LAYOUT
4A	R.O.W. DETAILS
4B	PROPOSED LAYOUT
4C	PROPOSED PROFILES
5	PROFILE OF PRIVATE DRIVES
6	DRAINAGE MAP
7	BRIDGE BOX CROSS-SECTION
8	EROSION PREVENTION AND SEDIMENT CONTROL NOTES
9-10	EROSION PREVENTION AND SEDIMENT CONTROL PLAN
11-13	ROADWAY CROSS SECTIONS (FORESTDALE AVE.)
14-15	ROADWAY CROSS SECTIONS (GIN ST.)
16	ROADWAY CROSS SECTIONS (IRON ST.)

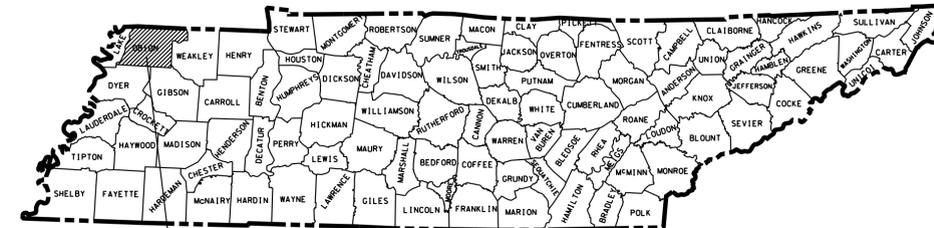
# STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

## OBION COUNTY

FORESTDALE AVENUE  
BRIDGE OVER SOUTH FORK HARRIS FORK CREEK (LM.O.79)  
BR. # 66L29440001

R.O.W.

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



PROJECT SITE

NOTE:  
ANY SALVAGEABLE MATERIAL FROM REMOVAL OF EXISTING  
STRUCTURE TO BECOME PROPERTY OF OBION COUNTY.

66955-2522-94  
PROJECT NO. BRZE-6600(15) (R.O.W.)  
STA. 14+00.00 TO STA. 17+75.00

ROAD WILL BE CLOSED FOR BRIDGE CONSTRUCTION

NO EXCLUSIONS  
NO EQUATIONS

SEALED BY

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

DATE:

APPROVED: *John Schroer*  
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: \_\_\_\_\_  
DIVISION ADMINISTRATOR DATE

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

**FOR  
R.O.W.  
ONLY**

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.

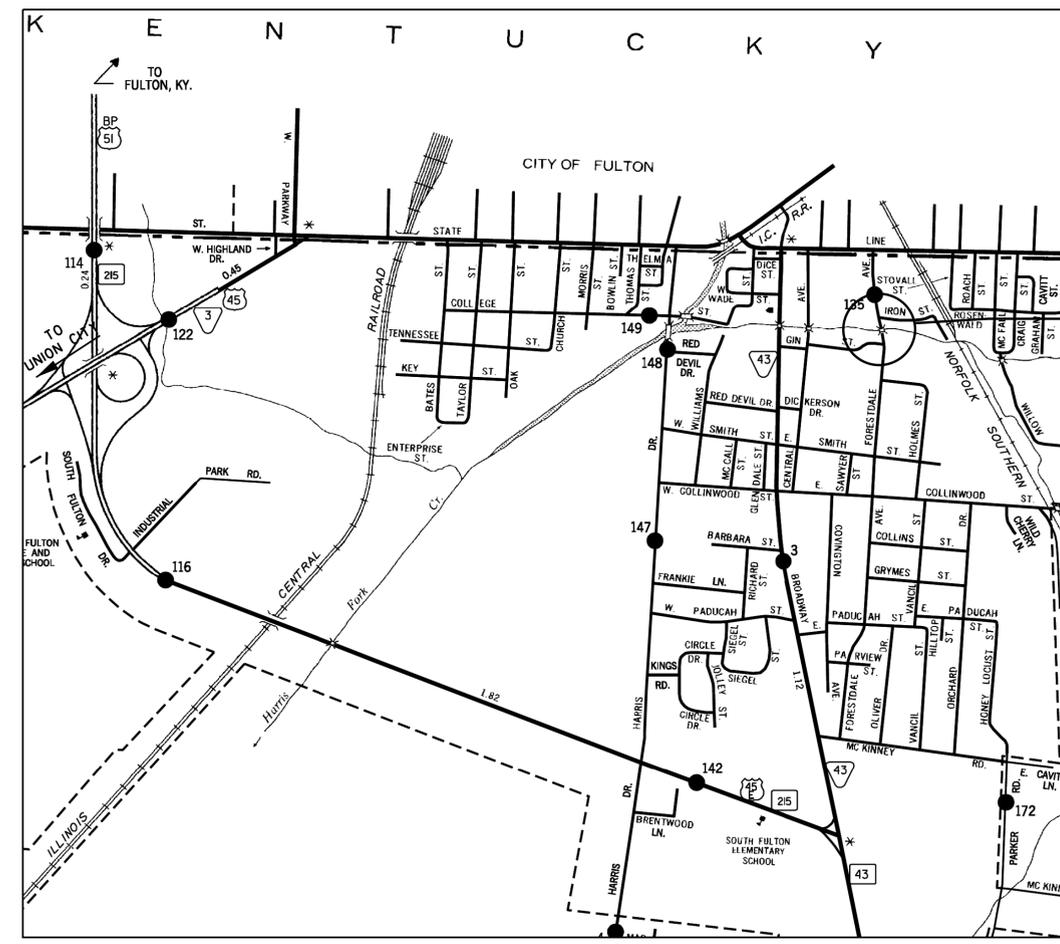
THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED FEBRUARY 4, 2014 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT C.E. MANAGER 1 OR  
TDOT DESIGN MANAGER 1 \_\_\_\_\_ JERRY G. HUGHES, SR.

DESIGNED BY BUCHART HORN INC.  
DESIGNER ED KOZLOWSKI CHECKED BY A. PINKLEY, PE

P.E. NO. 66955-2522-94

PIN NO. 100622.00



SCALE: 1" = 1 MILE

RIGHT-OF-WAY PROJECT LENGTH :	0.071 MILE
ROADWAY LENGTH	0.062 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.009 MILES
PROJECT LENGTH	0.071 MILES

SURVEY UPDATES: JANUARY 29, 2014

TRAFFIC DATA	
ADT (2014)	1410
ADT (2034)	1972
DHV (2034)	236
D	60-40
T (ADT)	6 %
T (DHV)	4 %
V	40 MPH

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# INDEX

SHEET NAME	SHEET NO.
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PRESENT LAYOUTS AND R.O.W. DETAILS .....	4 – 4A
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## STANDARD BRIDGE DRAWINGS

DWG. NO.	REV.	DESCRIPTION
<b>BRIDGE APPURTENANCES ENGLISH (LRFD BOX CULVERTS)</b>		
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-17-8		EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' – 6"
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-12		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-13		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-14		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-17-19		PAVED OUTLET DETAILS
STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET

DWG. NO	REV.	DESCRIPTION
STD-17-21		DEBRIS DEFLECTION WALL FOR BOX BRIDGE
STD-17-22		DEBRIS DEFLECTION WALL FOR SLAB BRIDGE
STD-17-23		SIDEWALK AND MISCELLANEOUS DETAILS
STD-17-24		WARPED SLOPE DETAIL
STD-17-29		PRECAST BOX CULVERT DETAILS
STD-17-104		BOX BRIDGE, 3 BARRELS AT 16', CLEAR HTS. 13' - 16' 0 – 60' FILL

## STANDARD ROADWAY DRAWINGS

### ROADWAY DESIGN STANDARDS

RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-6A	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
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

### DRAINAGE - CULVERTS AND ENDWALL

D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
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### DRAINAGE-CATCH BASINS AND MANHOLES

D-CB-42RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN

### SAFETY APPURTENANCES AND FENCE

S-GR31-1		W-BEAM GUARDRAIL
S-GRS-2		SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRT-3		TYPE 21 GUARDRAIL TERMINAL
S-GRT-3D		TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GRT-3P		EARTH PAD FOR TYPE 21 TERMINAL
S-GRT-4		TYPE 13 GUARDRAIL TERMINAL (TRAILING END)
S-GRA-3		GUARDRAIL ANCHOR FOR TYPE 12, 13 AND IN-LINE TERMINALS

### TRAFFIC CONTROL APPURTENANCES

T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
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DWG. NO	REV.	DESCRIPTION
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-34	09-01-05	TRAFFIC CONTROL PLAN GENERAL NOTES FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE

### EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BRZE-6600(15)	1A

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BIDDING**

SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

INDEX  
AND  
STANDARD  
DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BRZE-6600(15)	2

### ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	0.50
201-01	CLEARING AND GRUBBING	LS	0.50
(8) 202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	S.Y.	32
202-02.01	REMOVAL OF PIPE (10", STA. 14+78RT)	L.F.	29
202-02.02	REMOVAL OF PIPE (15", STA. 15+73RT)	L.F.	57
(9) 202-02.03	REMOVAL OF PIPE (24", STA. 15+14RT)	L.F.	8
202-02.04	REMOVAL OF PIPE (30", STA. 15+23LT)	L.F.	5
202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	1307
202-04.01	REMOVAL OF STRUCTURE (CATCH BASIN, STA. 14+78RT)	LS	0.50
202-04.02	REMOVAL OF STRUCTURE (ENDWALL, STA. 15+23RT)	LS	0.50
(1) 203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	272
203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	11
203-06	WATER	M.G.	15
203-08	CHANNEL EXCAVATION (UNCLASSIFIED)	C.Y.	2139
(1) 203-10	EMBANKMENT (COMPACTED IN PLACE)	C.Y.	218
209-05	SEDIMENT REMOVAL	C.Y.	10
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	400
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	730
209-08.08	ENHANCED ROCK CHECK DAM	EACH	5
209-09.01	SANDBAGS	BAG	100
209-09.04	TEMPORARY SEDIMENT FILTER BAG (15'x10')	BAG	1
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	930
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	1
209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EACH	3
209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	280
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1073
307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	228
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	173
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	2
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	8
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	1
411-01.10	ASPHALT CEMENT (PG64-22) (ACS) GRADING D	TON	98
(2) 606-24.12	TEMPORARY SHEET PILES	S.F.	500
607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	133
611-42.01	CATCH BASINS, TYPE 42, > 0' - 4' DEPTH	EACH	1
611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	2
705-01.04	METAL BEAM GUARD FENCE	L.F.	116
705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	306
705-04.03	GUARDRAIL TERMINAL (TYPE 13)	EACH	2
705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	1
705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	1
(3) 709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	80
709-05.08	MACHINED RIP-RAP (CLASS B)	TON	544
(4) 710-09.01	6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	70
712-01	TRAFFIC CONTROL	L.S.	0.50
(5) 712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	10
712-05.01	WARNING LIGHTS (TYPE A)	EACH	13
712-06	SIGNS (CONSTRUCTION)	S.F.	219
712-07.01	TEMPORARY BARRICADES (TYPE I)	L.F.	60
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	80
(6) 740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	523
740-11.02	TEMPORARY SEDIMENT TUBE 12IN (DESCRIPTION)	L.F.	76
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	10
801-01.65	TEMPORARY MULCH	UNIT	14
(7) 801-02	SEEDING (WITHOUT MULCH)	UNIT	2
801-03	WATER (SEEDING & SODDING)	M.G.	7
803-01	SODDING (NEW SOD)	S.Y.	690
(7) 805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	240

- (1) SEE SPECIAL NOTES
- (2) TO BE USED AT THE ENGINEER DISCRETION (BOX BRIDGE)
- (3) TO BE USED FOR TEMPORARY CONSTRUCTION EXIT
- (4) UNDERDRAIN BEHIND RCB WING WALLS
- (5) TO BE USED AS DIRECTED BY THE ENGINEER
- (6) INCLUDING 74.5 S.Y FOR FILTER BAG, 67.0 S.Y. FOR CONSTRUCTION EXIT & 381.0S.Y. FOR CLASS B RIP-RAP
- (7) TO BE USED FOR STR-1 GRADED SLOPES PAST RIP-RAP
- (8) INCLUDING 32 S.Y. OF CONCRETE PAD NORTH OF IRON STREET
- (9) INCLUDING 1307 S.Y. OF EXSTTING PAVEMENT REMOVAL WITHIN LIMITS OF CONSTRUCTION

### ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(10) 202-04.01	REMOVAL OF STRUCTURES (SINGLE SPAN BRIDGE, STA.15+60)	LS	0.50
204-08	FOUNDATION FILL MATERIAL	CY	39
303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	1770
(11) 604-02.01	CLASS A CONCRETE (BOX BRIDGES)	CY	236
(11) 604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB	52080

- (10) SALVAGEABLE MATERIAL TO BECOME PROPERTY OF OBION COUNTY
- (11) ITEM INCLUDES ADDITIONAL QUANTITY FOR BOX WALL VERTICAL ADJUSTMENT

SEE SHEET 9 FOR EROSION CONTROL TABULATION  
SEE SHEET 11 FOR TRAFFIC CONTROL TABULATION

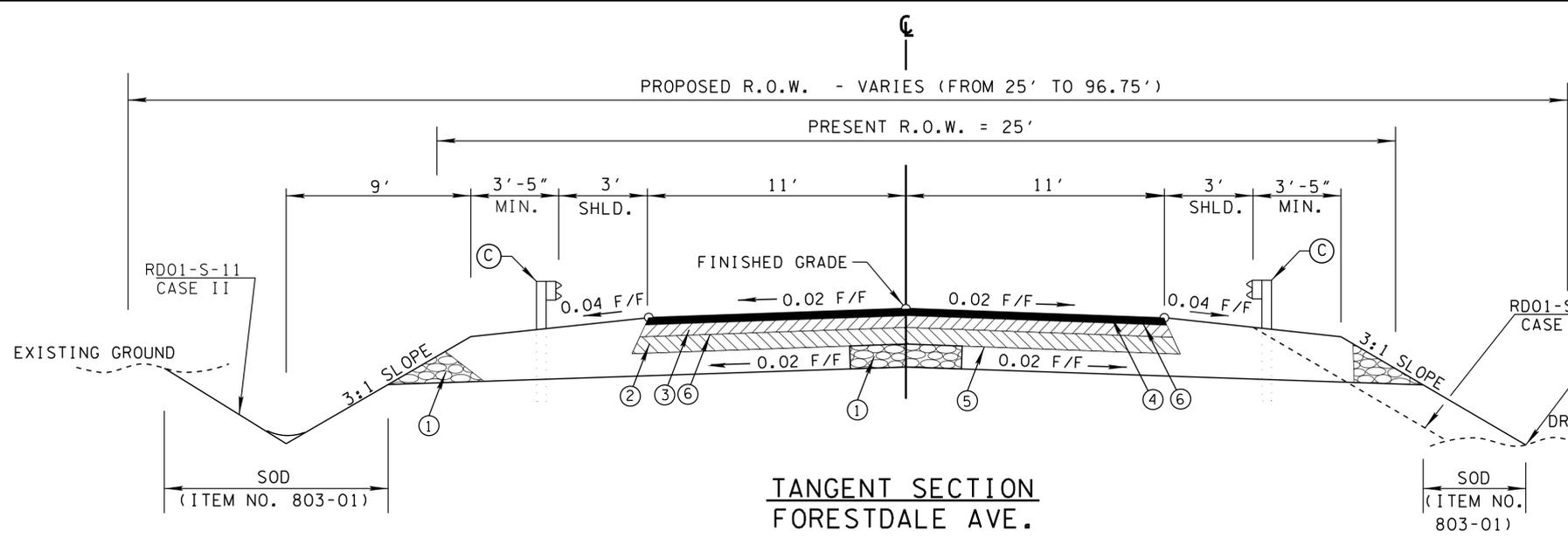
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SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**ESTIMATED  
ROADWAY  
AND BRIDGE  
QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	2
CONST.	2015	BRZE-6600(15)	2A



**TANGENT SECTION  
FORESTDALE AVE.**

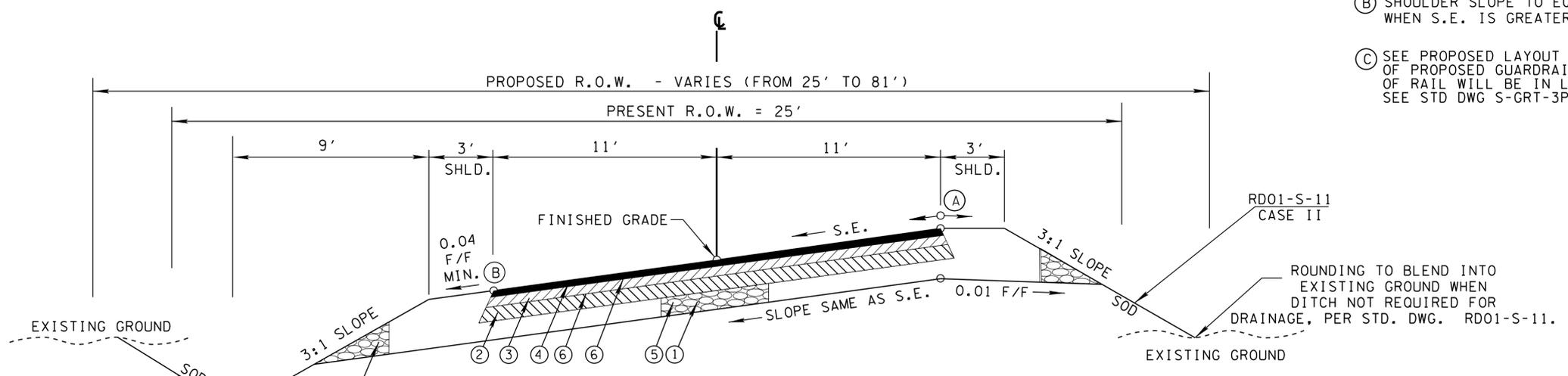
(STD. DWG. RD01-TS-1)  
FROM STA. 15+00.00 TO STA. 17+25.00

HALF SECTION IN CUT

HALF SECTION IN FILL

ROUNDING TO BLEND INTO EXISTING GROUND WHEN DITCH NOT REQUIRED FOR DRAINAGE, PER STD. DWG. RD01-S-11.

- (A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 FOOT PER FOOT.
- (B) SHOULDER SLOPE TO EQUAL S.E. RATE, WHEN S.E. IS GREATER THAN SHOULDER SLOPE.
- (C) SEE PROPOSED LAYOUT SHEET FOR LOCATION OF PROPOSED GUARDRAIL. TYPICALLY FACE OF RAIL WILL BE IN LINE WITH THE EDGE OF SHOULDER. SEE STD DWG S-GRT-3P AND RD01-TS-1 FOR G.R./SHLD. FLARE.



**SUPERELEVATED SECTION  
FORESTDALE AVE.**

(STD. DWG. RD01-TS-1)  
FROM STA. 14+26.00 TO STA. 15+00.00  
FROM STA. 17+25.00 TO STA. 17+50.00

HALF SECTION IN CUT

HALF SECTION IN FILL

ROUNDING TO BLEND INTO EXISTING GROUND WHEN DITCH NOT REQUIRED FOR DRAINAGE, PER STD. DWG. RD01-S-11.

PROPOSED PAVEMENT SCHEDULE	
<p>① MINERAL AGGREGATE BASE (8" THICK) ITEM NO. 303-01 MINERAL AGGREGATE TYPE "A" BASE, GRADING "D"</p>	<p>④ BITUMINOUS SURFACE AT 1.25" THICK (APPROX. 132.5 LB./S.Y.) ITEM NO. 411-01.10 ASPHALT CEMENT (PG64-22) (ACS) GRADING "D"</p>
<p>② BITUMINOUS BINDER AT 3" THICK (APPROX. 345 LBS./S.Y.) ITEM NO. 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "A"</p>	<p>⑤ PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) AT 0.30-0.35 GAL./S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) AT 8-12 LB./S.Y.</p>
<p>③ BITUMINOUS BINDER AT 2" THICK (APPROX. 345 LBS./S.Y.) ITEM NO. 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING "B-M2"</p>	<p>⑥ TACK COAT 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) AT 0.07 GAL./S.Y.</p>

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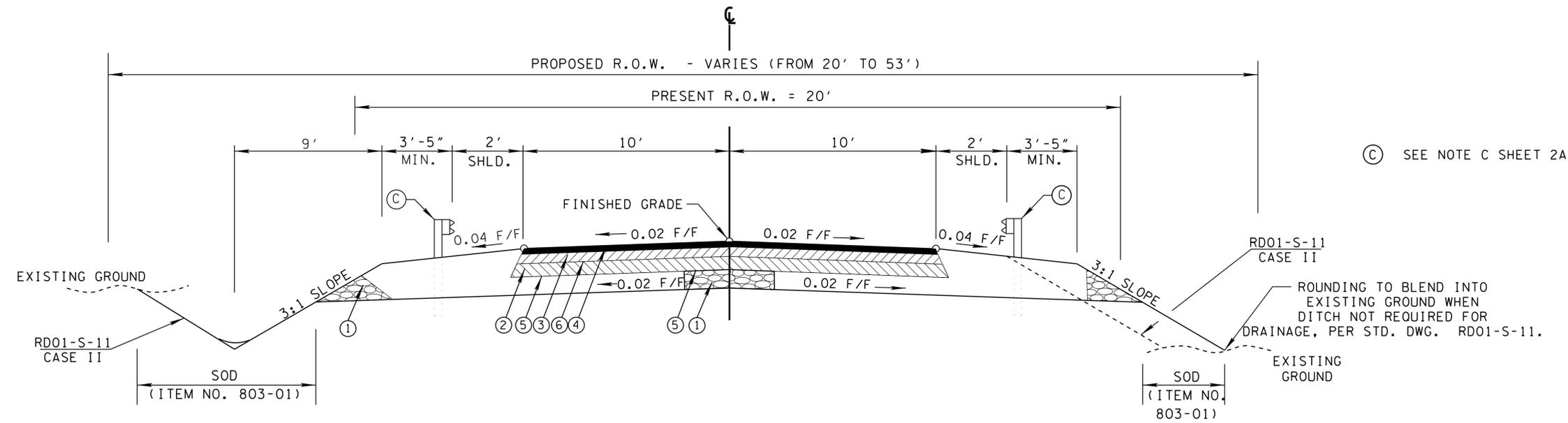
SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**TYPICAL  
SECTIONS  
AND  
PAVEMENT  
SCHEDULE**

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	2A
CONST.	2015	BRZE-6600(15)	2B



© SEE NOTE C SHEET 2A

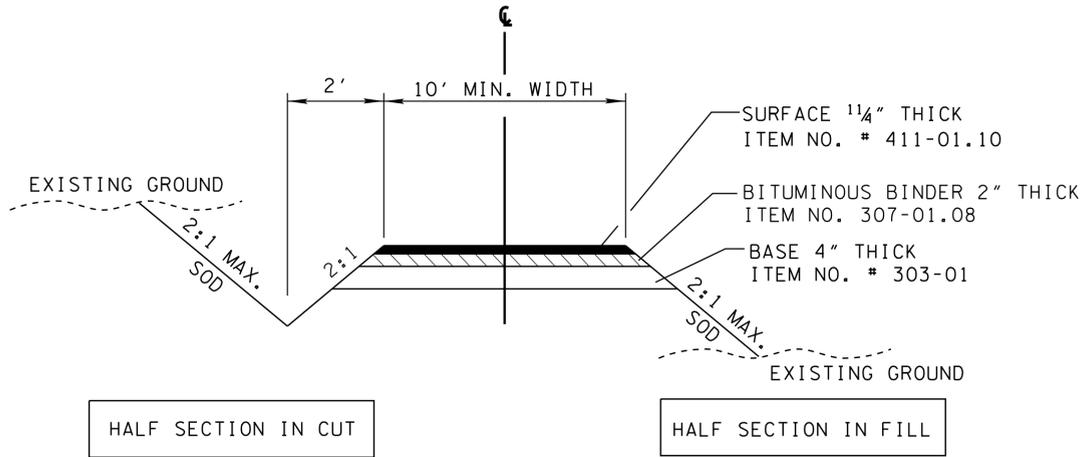
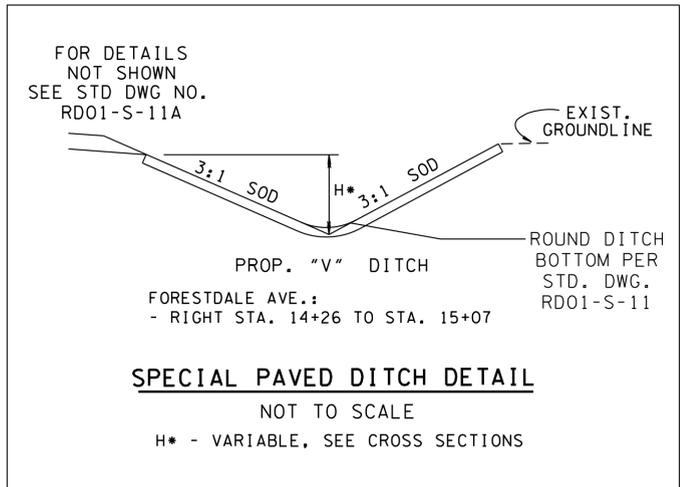
HALF SECTION IN CUT

**TANGENT SECTION**

(STD. DWG. RD01-TS-1)  
GIN STREET:  
FROM STA. 12+95.00 TO STA. 14+02.10  
IRON STREET:  
FROM STA. 10+00.00 TO STA. 10+85.00

HALF SECTION IN FILL

SEE SHEET 2A FOR PAVEMENT SCHEDULE



HALF SECTION IN CUT

**TYPICAL SECTION**

DRIVEWAY / BUSINESS ENTRANCE

HALF SECTION IN FILL

NOTE:

- WHERE SURFACE OF EXISTING DRIVE IS CONCRETE, SUBSTITUTE 6 INCHES OF CONCRETE FOR BASE AND SURFACE.
- IF AN EXISTING DRIVE IS GREATER THAN 10 FEET, THE WIDTH OF THE PROPOSED DRIVE SHALL BE EQUAL TO THE EXISTING WIDTH; BUT NOT GREATER THAN THE MAXIMUM ALLOWABLE WIDTH AS SPECIFIED IN THE RULES AND REGULATIONS.
- IF EXISTING DRIVE IS GRAVEL, SURFACING WILL BE FOR ONE SHOULDER WIDTH. THE REMAINDER OF THE DRIVE WILL BE REPLACED WITH GRAVEL TO THE TOUCHDOWN POINT.
- DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER.

**UNOFFICIAL SET**  
**NOT FOR BIDDING**

SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**

# GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BRZE-6600( 15)	2C

## GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

## SEEDING AND SODDING

- (1) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.
- (2) ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

## GUARDRAIL

- (1) THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.
- (2) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

## DRAINAGE

- (1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (2) EXCAVATION FOR PIPES AND DRAINAGE STRUCTURES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE ( PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).
- (3) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).
- (4) WHERE A CULVERT (PIPE, 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.
- (5) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

## 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.

## MISCELLANEOUS

- (1) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.
- (2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.
- (3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA

## ROAD CLOSURE

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

## RIGHT - OF - WAY

- (1) SEE RIGHT-OF-WAY ACQUISITION TABLE, SHEET 3A.

## PAVEMENT MARKINGS

### FINAL PAVEMENT MARKING IF REFLECTORIZED PAINT IS USED

- (1) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 PAINTED PAVEMENT MARKING (4IN LINE), L.M.

## PAVING

- (1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.
- (2) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A

CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

## CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERRECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- (3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- (4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERRECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (5) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- (6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- (7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- (8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES  
AND  
SPECIAL NOTES**

**EROSION PREVENTION AND SEDIMENT CONTROL**

**DISTURBED AREA**

- (1) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- (2) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.
- (3) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
- (4) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.
- (5) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.
- (6) NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

**SEDIMENT CONTROL**

- (7) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
- (8) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.
- (9) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL- VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.
- (10) CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND CONTROL EROSION.
- (11) 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.

**INSPECTION, MAINTENANCE, REPAIR**

- (20) EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.
- (21) 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.
- (22) 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.
- (23) 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.

- (24) 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.
- (25) 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.
- (26) 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.
- (27) 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**

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

**SWPPP, PERMITS, PLANS, RECORDS**

- (29) 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.
- (30) 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.
- (31) 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.
- (32) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BRZE-6600(15)	2D

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**GENERAL NOTES  
AND  
SPECIAL NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	BRZE-6600(15)	2E

# SPECIAL NOTES

## GRADING

- (33) 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.
- (34) 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.
- (35) 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.
- (36) 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.
- (37) 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.

- (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 37243.
- (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.

## LITTER, DEBRIS, WASTE, PETROLEUM

- (38) 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.
- (39) 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.

## EROSION PREVENTION AND SEDIMENT CONTROL

### NPDES

- (1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 8, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

### STREAM RELOCATION

- (1) ONCE WATER IS DIVERTED INTO A NEWLY CONSTRUCTED AND STABILIZED RELOCATED STREAM / CHANNEL THE ECOLOGY SECTION MUST BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE STREAM / CHANNEL IS TO BE SUPPLIED WITH THE NOTIFICATION.

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**GENERAL NOTES  
AND  
SPECIAL NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BRZE-6600(15)	2F

BOX BRIDGE TABULATION												
STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA ACRES	BOX BRIDGE		CULVERT EXC. 203-08 CU. YD.	DRAWING NO.	BACKFILLING ITEM 303-01.02 DWG. STD-10-1 TONS	FOUNDATION FILL MATERIAL CU. YD.
							BOX					
							CLASS "A" CONC. CU. YD.	REINF. STEEL LBS.				
15+35	FORESTDALE AVE.	3x16	14	37.5	65	605	236	52080	2139	STD-17-104	1770	39
<b>TOTALS</b>							236	52080	2139		1770	39

STORM DRAINAGE PIPES						
SHEET NO.	FROM		TO		% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		
4B	4	350.50	3	348.80	3.70	46
4B	5	351.70	4	350.60	1.26	87
<b>TOTALS</b>						133

PAVEMENT QUANTITIES							
LOCATION	PAY ITEMS						
	303-01 (TON)	307-01.01 (TON)	307-01.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.10 (TON)
FORESTDALE	671.4	113.0	73.0	1.1	4.0	0.48	52.0
GIN STREET	206.8	69.0	45.0	0.4	1.4	0.16	17.4
IRON STREET	139.9	46.0	30.0	0.3	1.0	0.12	12.7
DRIVEWAYS	54.7		25.0	0.3	1.2	0.11	15
<b>TOTALS</b>							
	1073	228	173	2	8	1	98

PROPOSED GUARDRAIL											
SHEET NO.	LOCATION	SIDE		STATION		GUARDRAIL					REMARKS
		LT	RT	FROM	TO	METAL BEAM 705-01.04 (L.F.)	SINGLE TYPE 2 705-02.02 (L.F.)	TYPE 13 705-04.03 (EACH)	TYPE 21 705-04.04 (EACH)	TYPE IN LINE 705-04.05 (EACH)	
		4B	FORESTDALE	X		14+26		58			
4B	IRON STREET		X		10+68		181	1			
4B	GIN STREET	X		13+30	13+58			1			
4B	FORESTDALE	X			16+67	58	125			1	
<b>TOTALS</b>						116	306	2	1	1	

DROP INLETS											
SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS	
										TYPE 42 611-42.01 0' - 4'	TYPE 42 611-42.02 4' - 8'
4B	FORESTDALE AVE	14+22	34.25'LT	1	354.90	#42	4'-0"x4'-0"	5.5'	D-CB-42SB		1
4B	FORESTDALE AVE	16+22	25.75'RT	4	355.10	#42	4'-0"x4'-0"	4.5'	D-CB-42SB		1
4B	FORESTDALE AVE	17+08	18.57'RT	5	355.80	#42	4'-0"x4'-0"	4.1'	D-CB-42SB	1	
4B	FORESTDALE AVE	15+14	19.2'LT	6	EXIST.	PE			*SP DETAIL		
4B	FORESTDALE AVE	15+33	30.9'RT	2	EXIST.	PE			*SP DETAIL		
4B	FORESTDALE AVE	15+79	8.0'RT	3	348.80	PE			*SP DETAIL		
<b>TOTALS</b>										1	2

\* SEE SEET 4B FOR CONCRETE PIPE BOX WALL CONNECTION DETAIL

ESTIMATED GRADING QUANTITIES						
LOCATION	ROAD AND DRAINAGE		BORROW EXCAVATION UNCL. (C.Y.)	CHANNEL EXC. (C.Y.)	EXCESS EXC. WASTE C.Y.	EMB. (C.Y.)
	EXCAVATION UNCL. (C.Y.)	FILL * (C.Y.)				
FORESTDALE AVE.	207	218		2139	2139	218
GIN STREET	43					
IRON STREET	22					
<b>TOTALS</b>	272	218	11	2139	2139	218

\* FILL VOLUME DOES INCLUDE PROPOSED PAVEMENT AND NO SHRINKAGE FACTOR.

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**TABULATED  
QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	3
CONST.	2015	BRZE-6600(15)	3

06/24/14	CHANGED TRACK NO. 53 TO 52, ADDED Z BAR TO PROPERTY LINE.
07/28/14	REVISED UTILITY OWNERS INFO.
09/17/14	TRACT 41, 42 & 52 ADDED D/W.

**UTILITY OWNERS:**

AT&T KENTUCKY  
810 KENTUCKY AVE.  
PADUCAH, KY 42003  
ALAN PAGE  
270-210-3563

WEAKLEY COUNTY MUNICIPAL ELECTRIC  
ELECTRIC  
11181 HIGHWAY 22  
MARTIN, TN 38237  
ANDREA HARRINGTON  
731-587-9521

CITY OF SOUTH FULTON  
GAS, WATER & SEWER  
700 MILTON COUNCE  
SOUTH FULTON, TN 38257  
WESLEY JOYNER  
731-479-2242

TIME WARNER CABLE  
509 BROADWAY STREET  
SOUTH FULTON, TN 38257  
JERRY MORRIS  
731-432-3722

GEODETIC SURVEY CONTROL DATA  
POINT NAME: 66-A812-01  
LATITUDE(N): 36°29'58.331158"  
LONGITUDE(W): 88°52'28.188727"  
D.A. NORTHING: N 800945.9594 (FT)  
D.A. EASTING: E 1123703.5357 (FT)  
ELEVATION: 356.19 (FT)

TYPE OF MONUMENT:  
ALUM. DISK ATOP 1/4 REBAR STAMPED 66-A812-01, DRIVEN FLUSH

ROUTE DESCRIPTION:  
FROM THE JCT OF SR 43 (US45E) & EAST SMITH STREET IN SOUTH FULTON, GO EASTERLY ON E. SMITH ST FOR 0.06 MILE TO CENTRAL AVE; TURN LEFT & GO NORTHERLY ON CENTRAL AVE FOR 0.15 MILE TO THE STATION ON THE RIGHT (EAST)

REFERENCES:  
102 FT EAST OF THE CENTER OF CENTRAL AVE  
4.50 FT NORTH OF AN ORANGE WITNESS POST  
3.0 FT SOUTH OF THE SOUTH RAIL OF AN ABANDONED RAILROAD SPUR

GEODETIC SURVEY CONTROL DATA  
POINT NAME: 66-A812-02  
LATITUDE(N): 36°29'58.141512"  
LONGITUDE(W): 88°52'20.539521"  
D.A. NORTHING: N 800908.4536 (FT)  
D.A. EASTING: E 1124327.2671 (FT)  
ELEVATION: 357.14 (FT)

TYPE OF MONUMENT:  
ALUM. DISK ATOP 1/4 REBAR STAMPED 66-A812-02, DRIVEN FLUSH

ROUTE DESCRIPTION:  
FROM THE JCT OF SR 43 (US45E) & EAST COLLINWOOD STREET IN SOUTH FULTON, GO EASTERLY ON E. COLLINWOOD ST FOR 0.16 MILE TO FORESDALE AVE; TURN LEFT & GO NORTHERLY ON FORESDALE AVE FOR 0.25 MILE TO THE STATION ON THE LEFT (WEST)

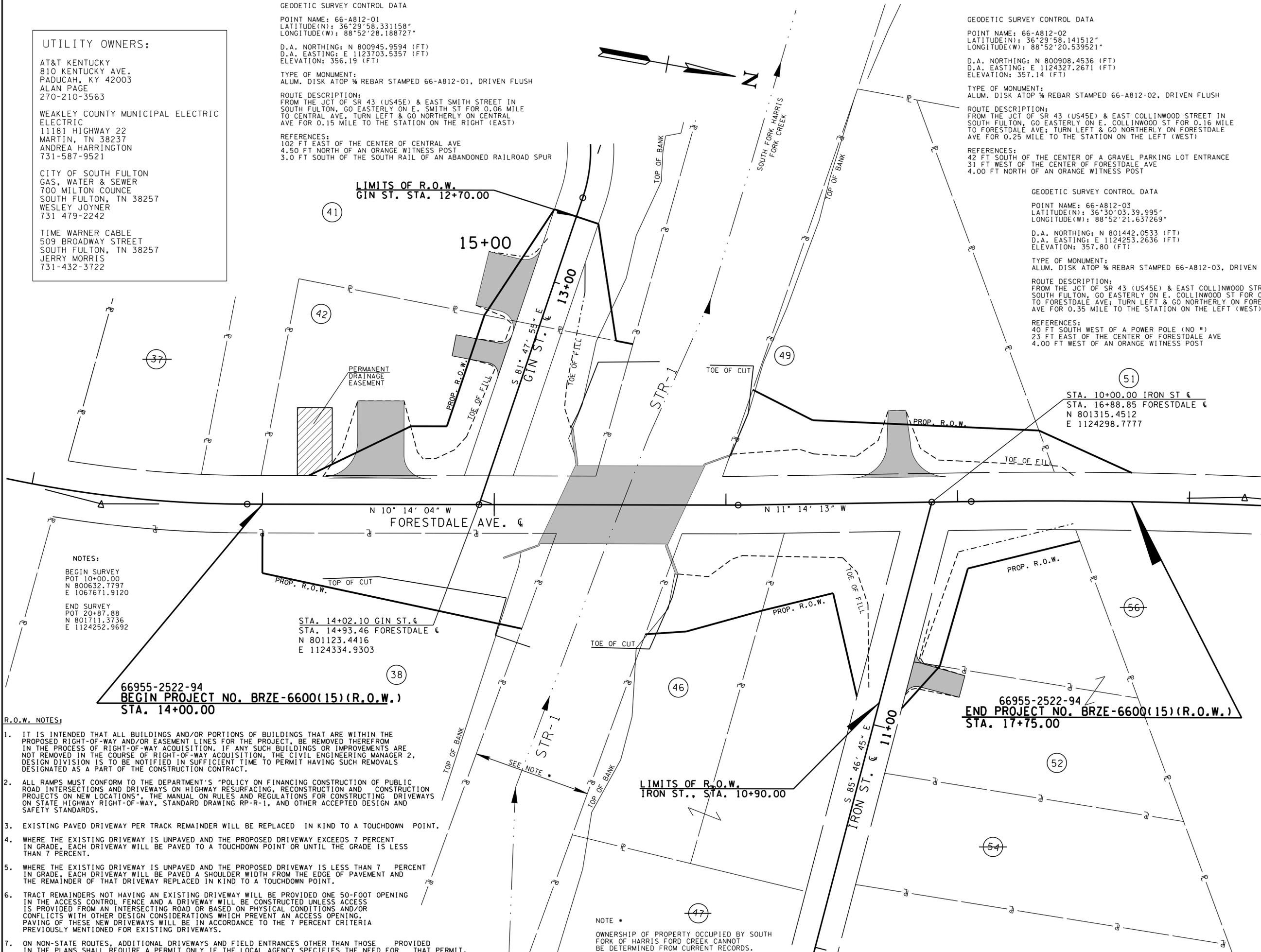
REFERENCES:  
42 FT SOUTH OF THE CENTER OF A GRAVEL PARKING LOT ENTRANCE  
31 FT WEST OF THE CENTER OF FORESDALE AVE  
4.00 FT NORTH OF AN ORANGE WITNESS POST

GEODETIC SURVEY CONTROL DATA  
POINT NAME: 66-A812-03  
LATITUDE(N): 36°30'03.39.995"  
LONGITUDE(W): 88°52'21.637269"  
D.A. NORTHING: N 801442.0533 (FT)  
D.A. EASTING: E 1124253.2636 (FT)  
ELEVATION: 357.80 (FT)

TYPE OF MONUMENT:  
ALUM. DISK ATOP 1/4 REBAR STAMPED 66-A812-03, DRIVEN FLUSH

ROUTE DESCRIPTION:  
FROM THE JCT OF SR 43 (US45E) & EAST COLLINWOOD STREET IN SOUTH FULTON, GO EASTERLY ON E. COLLINWOOD ST FOR 0.17 MILE TO FORESDALE AVE; TURN LEFT & GO NORTHERLY ON FORESDALE AVE FOR 0.35 MILE TO THE STATION ON THE LEFT (WEST)

REFERENCES:  
40 FT SOUTH WEST OF A POWER POLE (NO #)  
23 FT EAST OF THE CENTER OF FORESDALE AVE  
4.00 FT WEST OF AN ORANGE WITNESS POST



**NOTES:**  
BEGIN SURVEY  
POT 10+00.00  
N 800632.7797  
E 1067671.9120

END SURVEY  
POT 20+87.88  
N 801711.3736  
E 1124252.9692

STA. 14+02.10 GIN ST. &  
STA. 14+93.46 FORESDALE &  
N 801123.4416  
E 1124334.9303

66955-2522-94  
**BEGIN PROJECT NO. BRZE-6600(15)(R.O.W.)**  
STA. 14+00.00

66955-2522-94  
**END PROJECT NO. BRZE-6600(15)(R.O.W.)**  
STA. 17+75.00

- R.O.W. NOTES:**
- 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 THEREFROM 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 DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.
  - 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.
  - EXISTING PAVED DRIVEWAY PER TRACK REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
  - 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.
  - 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.
  - 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.
  - ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

NOTE •  
OWNERSHIP OF PROPERTY OCCUPIED BY SOUTH FORK OF HARRIS FORD CREEK CANNOT BE DETERMINED FROM CURRENT RECORDS.

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**PROPERTY MAP**  
STA. 14+00 TO STA. 17+75  
SCALE: 1"=20'

4/30/2015 2:19:38 PM U:\PROJ\15152-00\CADD\CADDdesign\Roadway\Forestdale\Plot\03-08A812\Property.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	3A
CONST.	2015	BRZE-6600(15)	3A

06/24/14

REVISED ACQUISITION AREA TO SQUARE FEET FOR TRACT 38,41,46, 49 AND 53.  
CHANGED TRACK NO. 53 TO 52.  
TAX MAP, BOOK & PAGE FOR TRACK #: 41,42, 46 & 49.

### RIGHT OF WAY ACQUISITION TABLE

TRACT NUMBER	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED BOOK	PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAIN	SLOPE	CONST.
<del>37</del>	ILLINOIS CENTRAL RAILROAD	007K	12.01	NONE	FOUND	0.252		0.252								
38	SPYDELL DAVIDSON, MIKE DAVIDSON & GREG DAVIDSON	007F GROUP G	8	20U	874		3.912	3.912		3607 SF	3607 SF		3.829			
41	BUCK'S ENTERPRISES, INC.	007F GROUP F	12	41	525	0.563		0.563	1934 SF		1934 SF	0.519				
42	JONATHAN LUCAS FRENCH	007F GROUP F	12.02	49	399	0.242		0.242	0.119		0.119	0.123	418			
46	DELVON B. GARMON & WF, VERNETTA GARMON	007F GROUP G	10 & 11	RB114 26L	340 188		0.333	0.333		3749 SF	3749 SF		0.247			
<del>47</del>	COUNTY OF OBION	007K	12	125	195		0.222	0.222								
49	BRIAN WALLACE	007F GROUP F	11	RB1	259	0.320		0.320	3143 SF		3143 SF	0.248				
51	CHURCH OF GOD OF PROPHECY	007F GROUP F	10	20G	792	0.718		0.718	300 SF		300 SF	0.711				
52	CLEO McCLANAHAN & WF. GERALDINE McCLANAHAN	007F GROUP G	17 & 18	22P	720		0.243	0.243		1320 SF	1320 SF		0.213			
<del>54</del>	CLEO McCLANAHAN & WF. GERALDINE McCLANAHAN	007K	16	22P	718		0.168	0.168								
<del>55</del>	CITY OF SOUTH FULTON, TENNESSEE	007K	15	26B	253		0.224	0.224								
<del>56</del>	BUILDERS SUPPLY COMPANY OF SOUTH FULTON, TENNESSEE, INC.	007F	3	18P 28A	63 264		2.893	2.893								
<del>57</del>	WILLIS CHESTER ELLIOTT	007F	9	26G	628	0.138		0.138								

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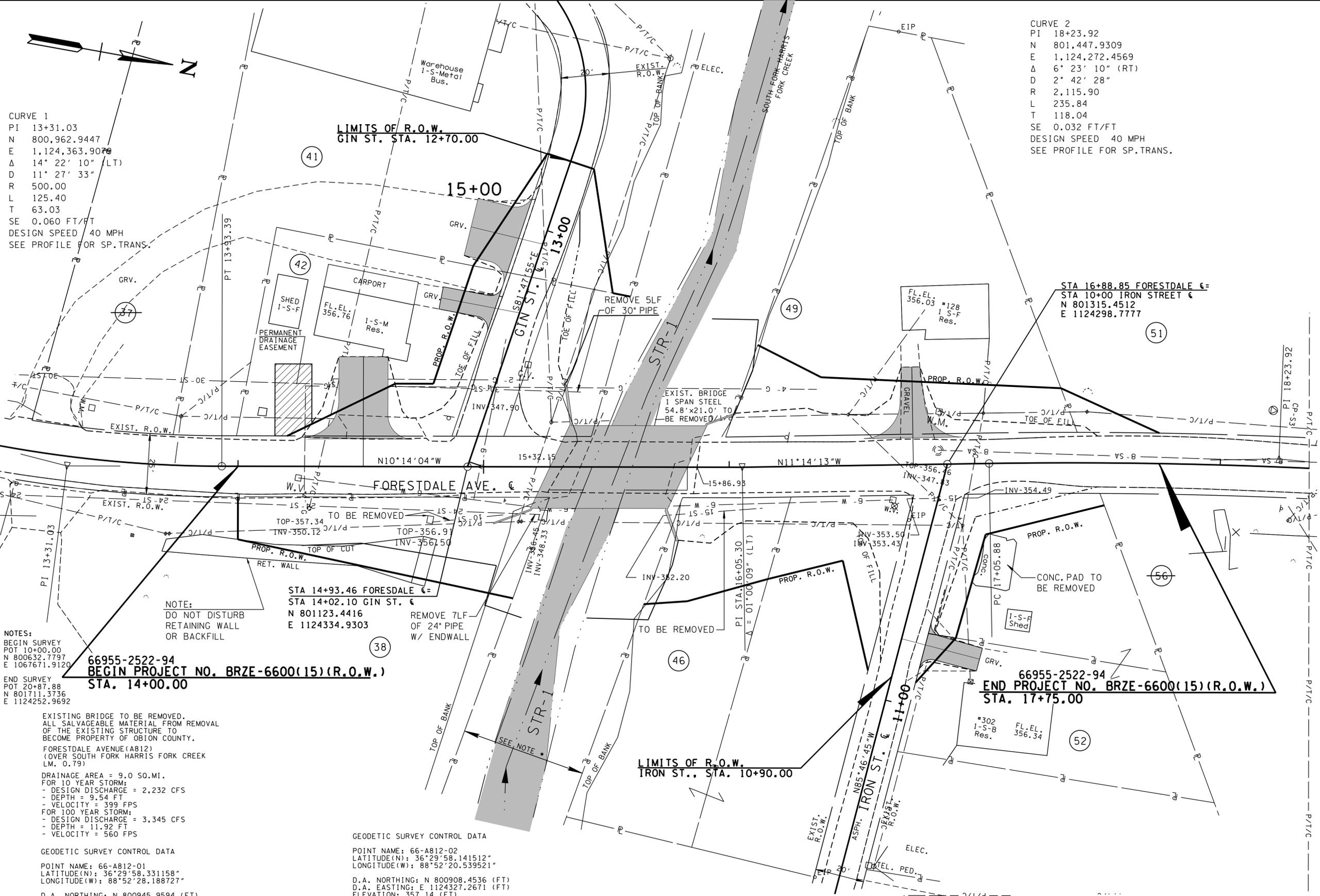
**RIGHT-OF-WAY  
ACQUISITION  
TABLE**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	4
CONST.	2015	BRZE-6600(15)	4

06/24/14 CHANGED TRACK NO. 53 TO 52,  
ADDED Z BAR TO PROPERTY LINE.  
09/17/14 TRACT 41, 42 UPDATED TOPO  
TRACT 41, 42 & 52 ADDED D/W.  
11/17/14 ADD. NOTE TO TRACT 38

**CURVE 1**  
PI 13+31.03  
N 800,962.9447  
E 1,124,363.9079  
Δ 14° 22' 10" (LT)  
D 11° 27' 33"  
R 500.00  
L 125.40  
T 63.03  
SE 0.060 FT/FT  
DESIGN SPEED 40 MPH  
SEE PROFILE FOR SP.TRANS.

**CURVE 2**  
PI 18+23.92  
N 801,447.9309  
E 1,124,272.4569  
Δ 6° 23' 10" (RT)  
D 2° 42' 28"  
R 2,115.90  
L 235.84  
T 118.04  
SE 0.032 FT/FT  
DESIGN SPEED 40 MPH  
SEE PROFILE FOR SP.TRANS.



**NOTES:**  
BEGIN SURVEY  
POT 10+00.00  
N 800632.7797  
E 1067671.9120  
END SURVEY  
POT 20+87.88  
N 801711.3736  
E 1124252.9692

**NOTE:**  
DO NOT DISTURB  
RETAINING WALL  
OR BACKFILL

**66955-2522-94  
BEGIN PROJECT NO. BRZE-6600(15)(R.O.W.)  
STA. 14+00.00**

**STA 14+93.46 FORESDALE C=**  
**STA 14+02.10 GIN ST. C**  
N 801123.4416  
E 1124334.9303

**LIMITS OF R.O.W.  
IRON ST., STA. 10+90.00**

**66955-2522-94  
END PROJECT NO. BRZE-6600(15)(R.O.W.)  
STA. 17+75.00**

**GEODETIC SURVEY CONTROL DATA**

**GEODETIC SURVEY CONTROL DATA**

POINT NAME: 66-A812-01  
LATITUDE(N): 36°29'58.331158"  
LONGITUDE(W): 88°52'28.188727"

POINT NAME: 66-A812-02  
LATITUDE(N): 36°29'58.141512"  
LONGITUDE(W): 88°52'20.539521"

D.A. NORTHING: N 800908.4536 (FT)  
D.A. EASTING: E 1124327.2671 (FT)  
ELEVATION: 357.14 (FT)

D.A. NORTHING: N 800945.9594 (FT)  
D.A. EASTING: E 1123703.5357 (FT)  
ELEVATION: 356.19 (FT)

TYPE OF MONUMENT:  
ALUM. DISK ATOP 3/8 REBAR STAMPED 66-A812-02, DRIVEN FLUSH

TYPE OF MONUMENT:  
ALUM. DISK ATOP 3/8 REBAR STAMPED 66-A812-01, DRIVEN FLUSH

ROUTE DESCRIPTION:  
FROM THE JCT OF SR 43 (US45E) & EAST COLLINWOOD STREET IN  
SOUTH FULTON, GO EASTERLY ON E. COLLINWOOD ST FOR 0.16 MILE  
TO FORESDALE AVE; TURN LEFT & GO NORTHERLY ON FORESDALE  
AVE FOR 0.25 MILE TO THE STATION ON THE LEFT (WEST)

ROUTE DESCRIPTION:  
FROM THE JCT OF SR 43 (US45E) & EAST SMITH STREET IN  
SOUTH FULTON, GO EASTERLY ON E. SMITH ST FOR 0.06 MILE  
TO CENTRAL AVE; TURN LEFT & GO NORTHERLY ON CENTRAL  
AVE FOR 0.15 MILE TO THE STATION ON THE RIGHT (EAST)

REFERENCES:  
42 FT SOUTH OF THE CENTER OF A GRAVEL PARKING LOT ENTRANCE  
31 FT WEST OF THE CENTER OF FORESDALE AVE  
4.00 FT NORTH OF AN ORANGE WITNESS POST

REFERENCES:  
102 FT EAST OF THE CENTER OF CENTRAL AVE  
4.50 FT NORTH OF AN ORANGE WITNESS POST  
3.0 FT SOUTH OF THE SOUTH RAIL OF AN ABANDONED RAILROAD SPUR

**NOTE \***  
OWNERSHIP OF PROPERTY OCCUPIED BY SOUTH  
FORK OF HARRIS FORD CREEK CANNOT  
BE DETERMINED FROM CURRENT RECORDS.

**UNOFFICIAL  
SET  
NOT FOR  
BIDDING**

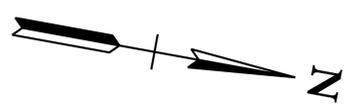
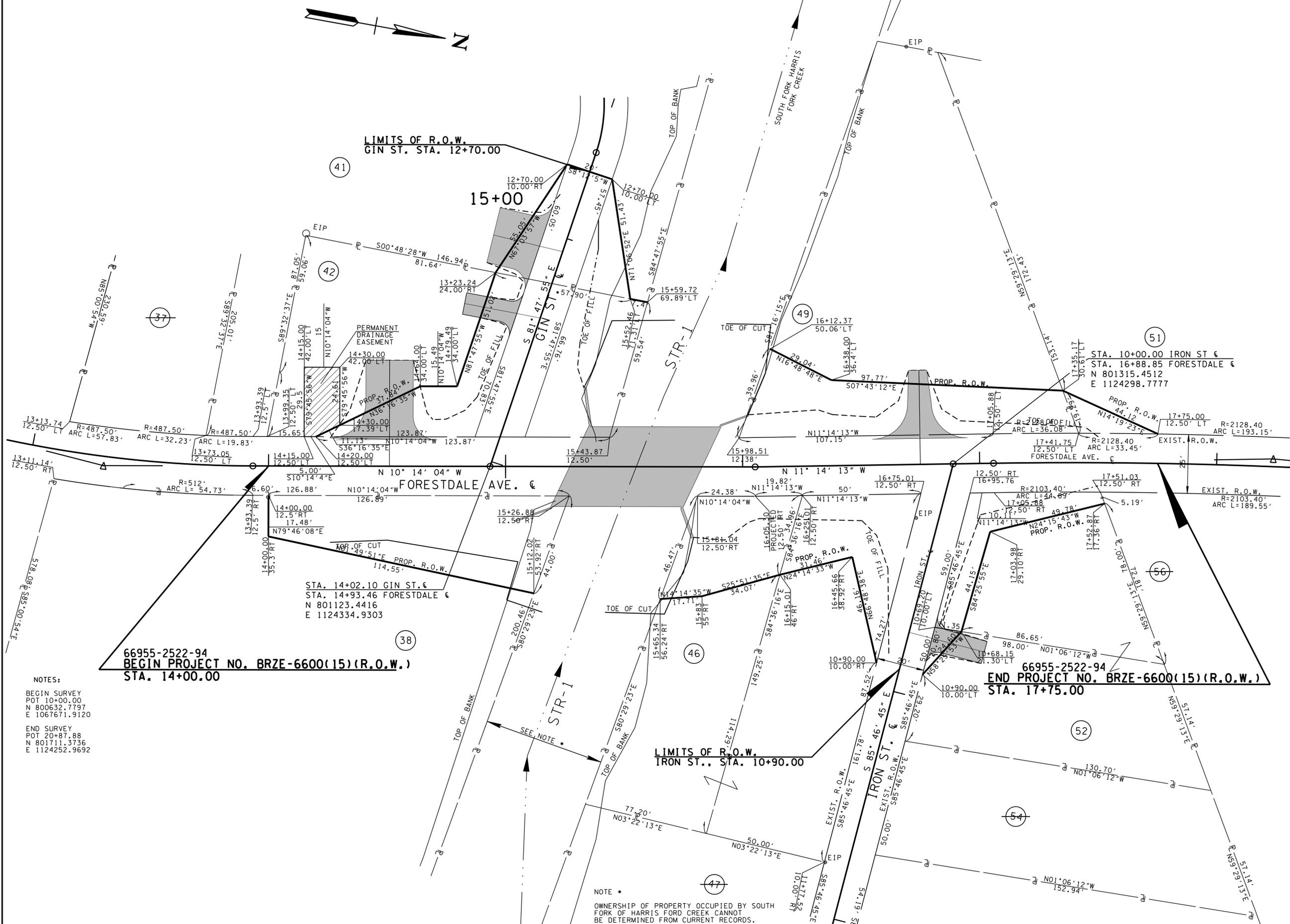
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COORDINATES ARE NAD/83(1995),  
ARE DATUM ADJUSTED BY THE  
FACTOR OF 1.00001 AND TIED TO  
THE TGRN. ALL ELEVATIONS ARE  
REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
**PRESENT  
LAYOUT**  
STA. 14+00 TO STA. 17+75  
SCALE: 1"=20'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	4A
CONST.	2015	BRZE-6600(15)	4A

06/24/14 REVISED BEARINGS AND DISTANCES OR STATION AND OFFSET FOR TRACTS 38, 42, 46, 49 AND 51. CHANGED TRACK NO. 53 TO 52. ADDED Z BAR TO PROPERTY LINE.  
09/17/14 TRACT 41, 42 & 52 ADDED D/W.



66955-2522-94  
BEGIN PROJECT NO. BRZE-6600(15)(R.O.W.)  
STA. 14+00.00

66955-2522-94  
END PROJECT NO. BRZE-6600(15)(R.O.W.)  
STA. 17+75.00

NOTES:  
BEGIN SURVEY  
POT 10+00.00  
N 800632.7797  
E 1067671.9120  
  
END SURVEY  
POT 20+87.88  
N 801711.3736  
E 1124252.9692

NOTE •  
OWNERSHIP OF PROPERTY OCCUPIED BY SOUTH FORK OF HARRIS FORD CREEK CANNOT BE DETERMINED FROM CURRENT RECORDS.

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DEPARTMENT OF TRANSPORTATION

**R.O.W.  
DETAILS**  
STA. 14+00 TO STA. 17+75  
SCALE: 1"=20'

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NOTE:  
ANY SALVAGEABLE MATERIAL FROM REMOVAL OF EXISTING  
STRUCTURE TO BECOME PROPERTY OF OBION COUNTY.

66955-3523-94  
PROJECT NO. BRZE-6600(15)(CONST.)  
BEGIN CONST.  
STA. 14+00.00  
N 801031.4710  
E 1124351.5350

STA 12+83  
BEGIN GIN ST.CONST.  
N 801140.43912  
E 1124217.0496

LIMIT OF CONST.  
STA 0+30  
STA 13+06  
24' PVT DW  
NO S.D. REQ'D

LIMIT OF CONST.  
STA 0+45  
STA 14+51  
20' PVT DW  
NO S.D. REQ'D

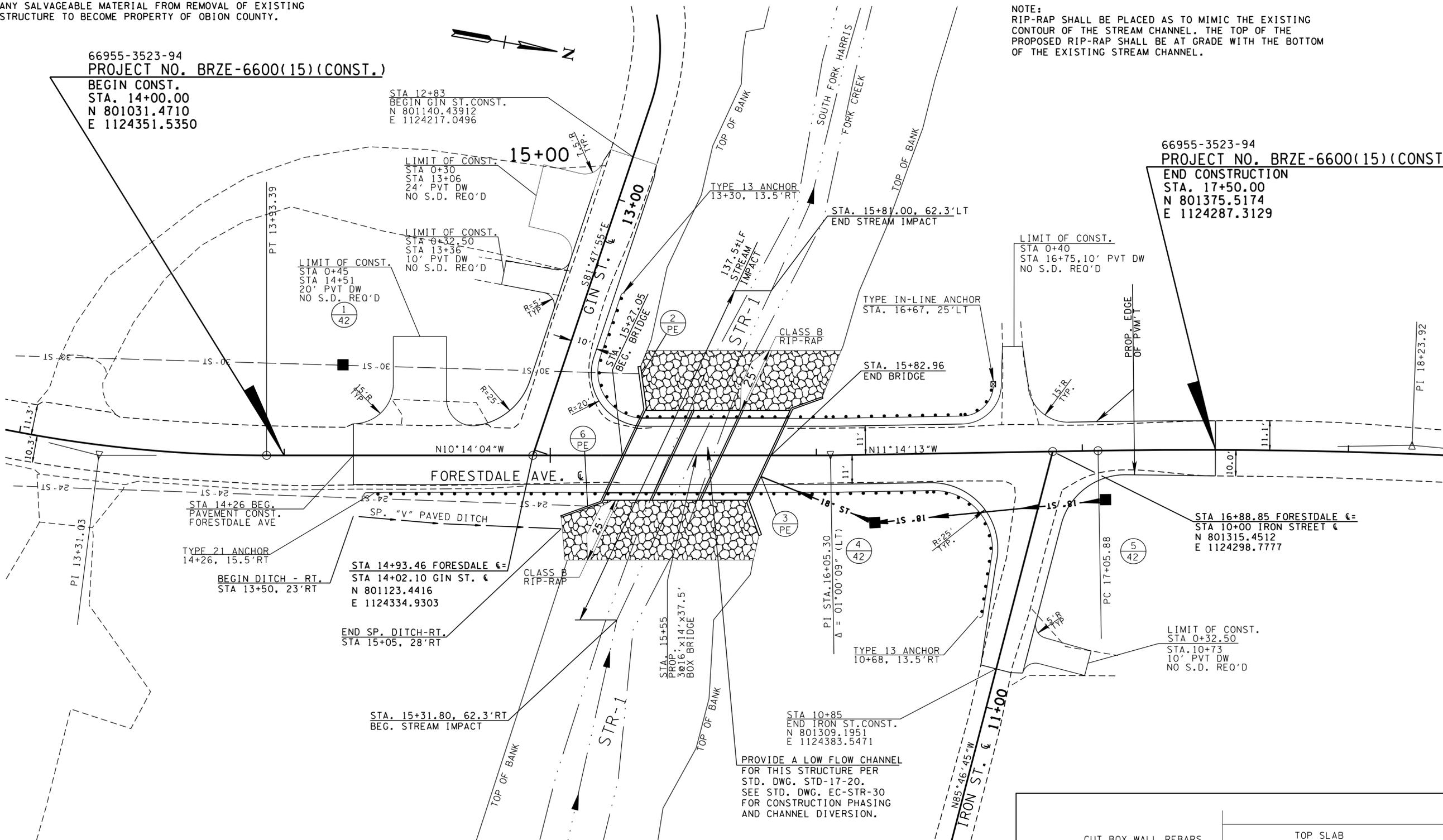
LIMIT OF CONST.  
STA 0+32.50  
STA 13+36  
10' PVT DW  
NO S.D. REQ'D

NOTE:  
RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING  
CONTOUR OF THE STREAM CHANNEL. THE TOP OF THE  
PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM  
OF THE EXISTING STREAM CHANNEL.

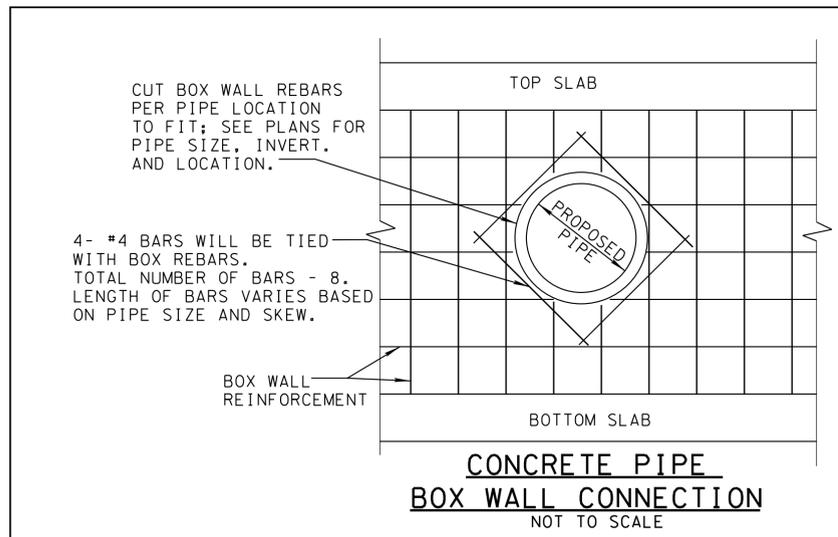
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	4B
CONST.	2015	BRZE-6600(15)	4B

06/2406/14 REVISED ACQUISITION AREA TO  
SQUARE FEET FOR TRACT 3,6,8,13,  
AND 14  
09/17/14 TRACTS 41, 42 & 52 ADDED D/W.  
10/16/14 REV. STR-1 RIP-RAP & IMPACT LENGTH

66955-3523-94  
PROJECT NO. BRZE-6600(15)(CONST.)  
END CONSTRUCTION  
STA. 17+50.00  
N 801375.5174  
E 1124287.3129



PROVIDE A LOW FLOW CHANNEL  
FOR THIS STRUCTURE PER  
STD. DWG. STD-17-20.  
SEE STD. DWG. EC-STR-30  
FOR CONSTRUCTION PHASING  
AND CHANNEL DIVERSION.



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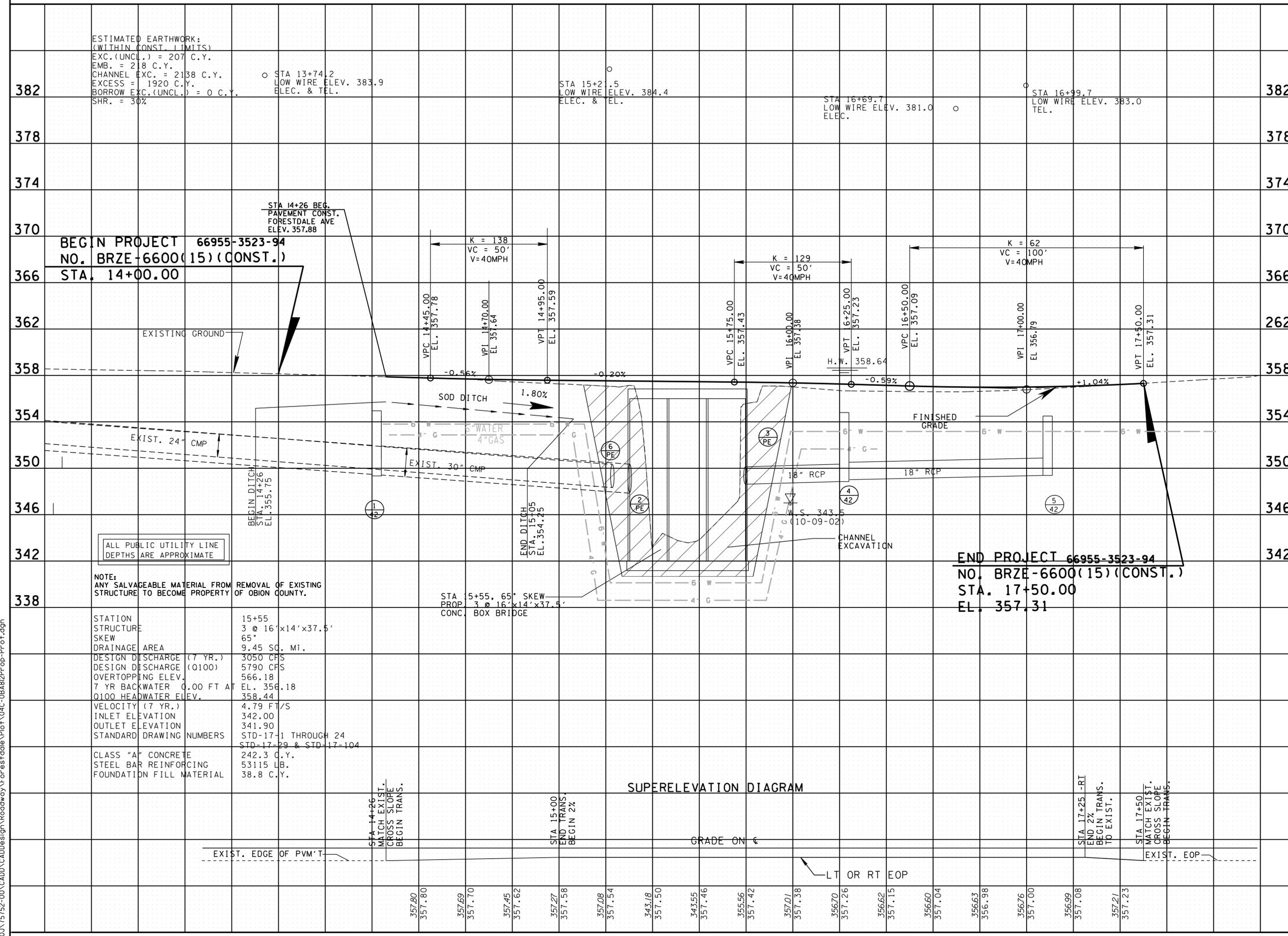
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
LAYOUT**  
STA. 14+00 TO STA. 17+75  
SCALE: 1"=20'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	4C
CONST.	2015	BRZE-6600(15)	4C

07/28/14  
 REVISED PROFILE VERT. SCALE.  
 REVISED STRUCTURE DATA.



ALL PUBLIC UTILITY LINE DEPTHS ARE APPROXIMATE

NOTE: ANY SALVAGEABLE MATERIAL FROM REMOVAL OF EXISTING STRUCTURE TO BECOME PROPERTY OF OBION COUNTY.

STATION	15+55
STRUCTURE	3 @ 16'x14'x37.5'
SKEW	65°
DRAINAGE AREA	9.45 SQ. MI.
DESIGN DISCHARGE (7 YR.)	3050 CFS
DESIGN DISCHARGE (0100)	5790 CFS
OVERTOPPING ELEV.	566.18
7 YR BACKWATER 0.00 FT AT 0100 HEADWATER ELEV.	EL. 356.18
VELOCITY (7 YR.)	4.79 FT/S
INLET ELEVATION	342.00
OUTLET ELEVATION	341.90
STANDARD DRAWING NUMBERS	STD-17-1 THROUGH 24 STD-17-29 & STD-17-104
CLASS "A" CONCRETE	242.3 C.Y.
STEEL BAR REINFORCING	53115 LB.
FOUNDATION FILL MATERIAL	38.8 C.Y.

SUPERELEVATION DIAGRAM

**UNOFFICIAL SET**  
**NOT FOR BIDDING**

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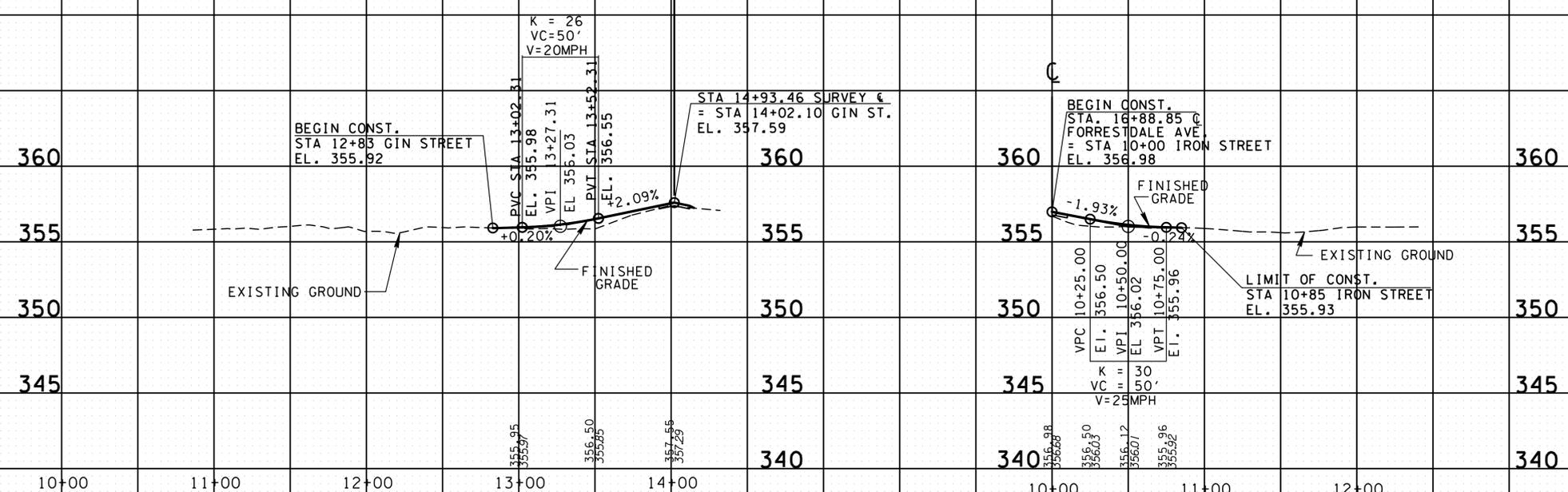
STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION

**PROFILE**  
 FORESDALE AVE.  
 STA. 14+26 TO STA. 17+50  
 SCALE: 1"=20' HORIZ.  
 1"=5' VERT.

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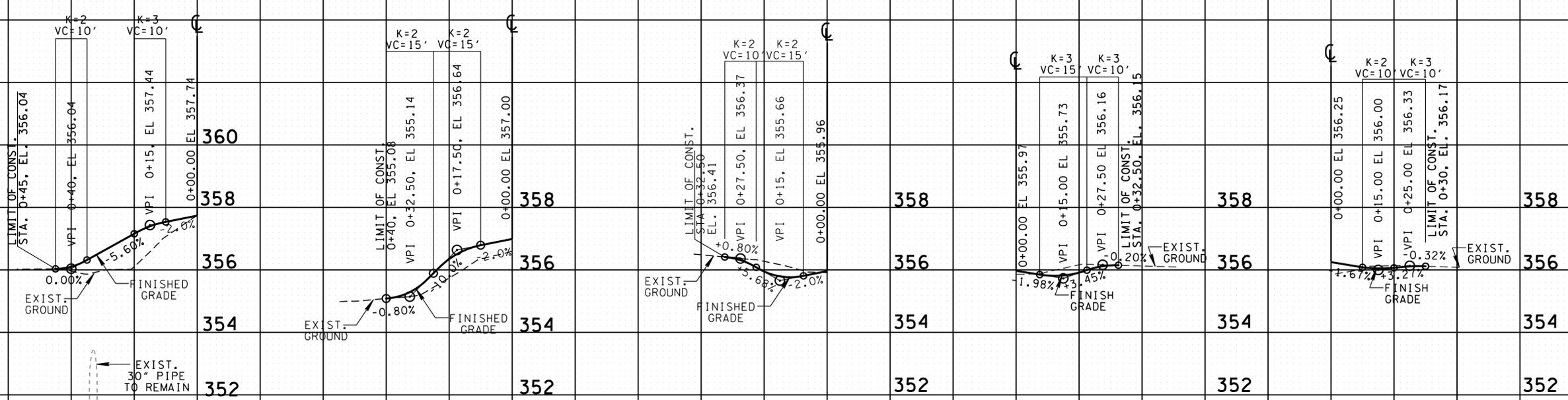
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	5
CONST.	2015	BRZE-6600(15)	5

09/17/14 ADDED DRIVEWAYS



**GIN STREET PROFILE**  
STA. 14+93.46 (LT)  
SCALE: HORIZ. 1"=50; VERT. SCALE: 1"=5'

**IRON STREET PROFILE**  
STA. 16+88.85 (RT)  
SCALE: HORIZ. 1"=50; VERT. SCALE: 1"=5'



**20' ASPHALT DRIVEWAY PROFILE**  
FORESTDALE AVE. STA. 14+51 (LT)  
SCALE: HORIZ. 1"=20; VERT. SCALE: 1"=2'

**10' ASPHALT DRIVEWAY PROFILE**  
FORESTDALE AVE. STA. 16+75 (LT)  
SCALE: HORIZ. 1"=20; VERT. SCALE: 1"=2'

**10' ASPHALT DRIVEWAY PROFILE**  
IRON ST. STA. 10+73 (LT)  
SCALE: HORIZ. 1"=20; VERT. SCALE: 1"=2'

**10' ASPHALT DRIVEWAY PROFILE**  
GIN ST. STA. 13+36 (RT)  
SCALE: HORIZ. 1"=20; VERT. SCALE: 1"=2'

**24' ASPHALT DRIVEWAY PROFILE**  
GIN ST. STA. 13+06 (RT)  
SCALE: HORIZ. 1"=20; VERT. SCALE: 1"=2'

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**PROFILES OF  
SIDE ROADS  
AND D/W'S**  
SCALE: AS NOTED

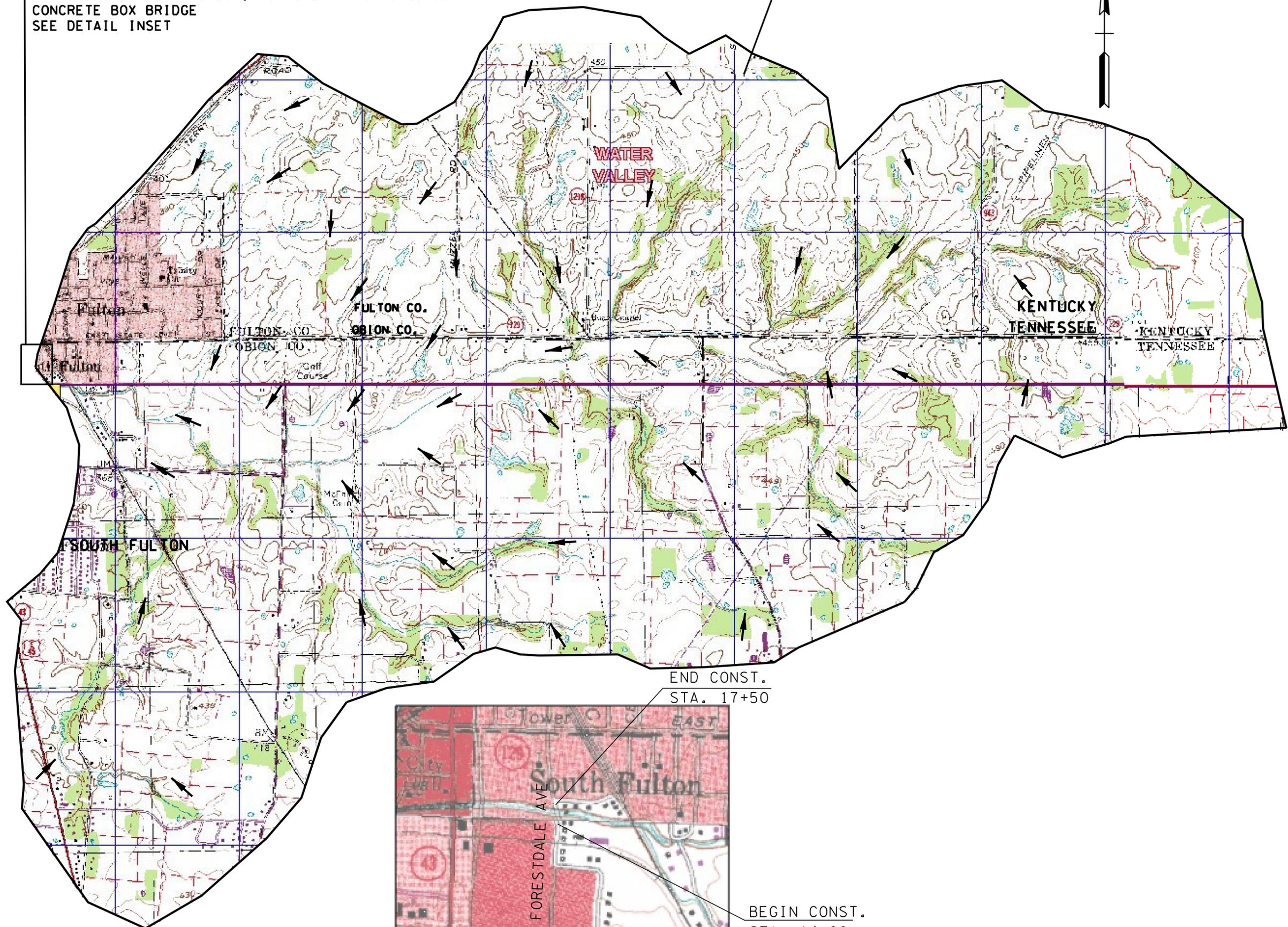
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PROJECT NO. BRZE-6600(15)  
 66955-3523-94  
 FORESTDALE AVENUE OVER  
 SOUTH FORK HARRIS CREEK (L.M. 0.79)  
 PROP. 3 @ 16'x14'x 37.5', 65° SKEW AT STA. 15+55  
 CONCRETE BOX BRIDGE  
 SEE DETAIL INSET

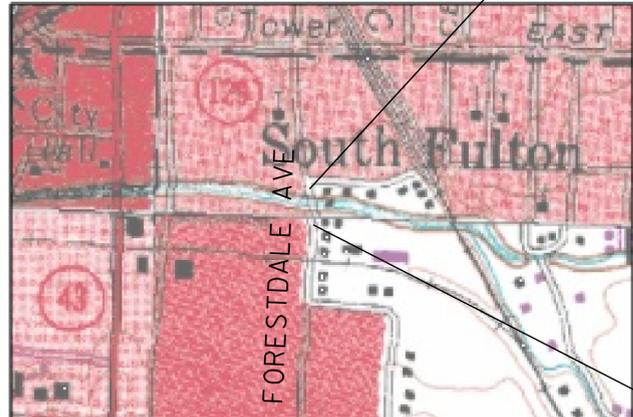
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	6
CONST.	2015	BRZE-6600(15)	6



DA = 5943 ACRES



END CONST.  
 STA. 17+50



DETAIL MAP

BEGIN CONST.  
 STA. 14+00

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COORDINATES ARE NAD/83(1995),  
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STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION

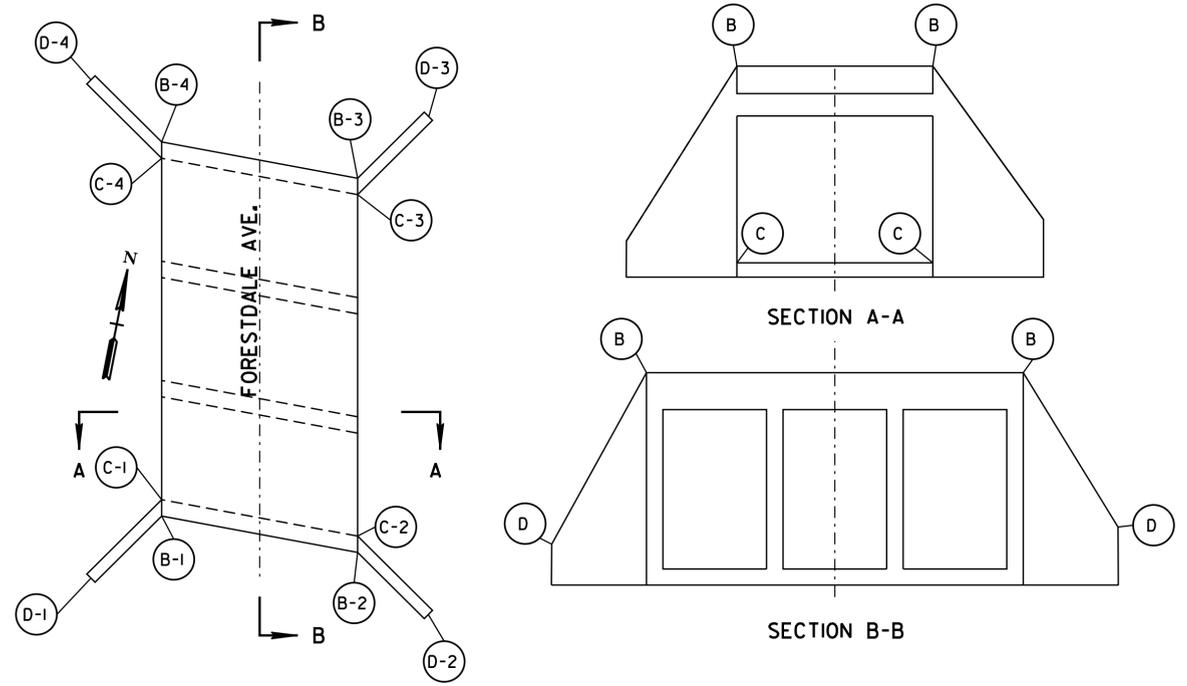
**DRAINAGE  
 MAP**

STA. 14+26 TO STA. 17+50  
 SCALE: 1"=1500'

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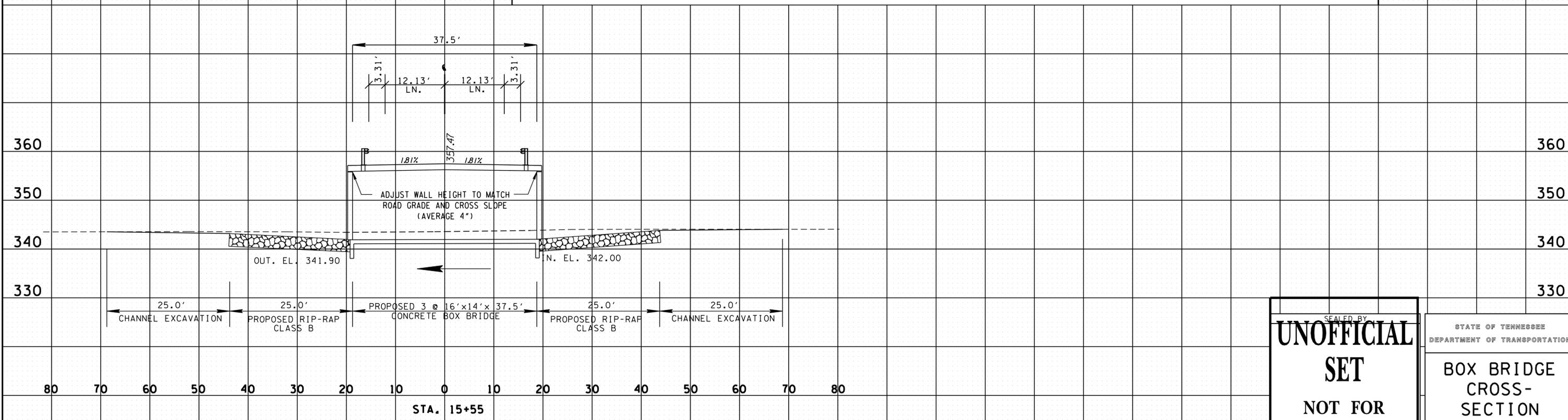
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	7
CONST.	2015	BRZE-6600(15)	7

STATION	15+55
STRUCTURE	3 @ 16'x14'x37.5', 65° SKEW,RCB
DRAINAGE AREA	9.45 SQ.MI.
DESIGN DISCHARGE (7 YR)	3050 CFS
7 YR BACKWATER	0.00 FT. AT EL. 356.18
7 YR VELOCITY	4.79 FPS
100 YR DISCHARGE	5790 CFS AT EL. 358.44
INLET INVERT ELEVATION	342.00
OUTLET INVERT ELEVATION	341.90
APPROACH OVERTOPPING ELEVATION	356.18
STANDARD DRAWING NUMBERS	STD-17-1 THRU 17-24, 17-29 AND 17-104
CLASS "A" CONCRETE	242.3 C.Y.
STEEL BAR REINFORCING	53,115 LB
FOUNDATION FILL MATERIAL	38 C.Y.
RIP-RAP CLASS B	800 TON



BOX BRIDGE ELEVATION SKETCH

CL STATION	TOP OF SLAB ELEV.				FLOWLINE ELEV.				TOP OF WING ELEV.			
	ELEV	ELEV	ELEV	ELEV	ELEV	ELEV	ELEV	ELEV	ELEV	ELEV	ELEV	ELEV
	B-1	B-2	B-3	B-4	C-1	C-2	C-3	C-4	D-1	D-2	D-3	D-4
15+19		357.17				342.00				357.00		
15+35	357.05				341.90				355.00			
15+75			357.09				342.00				354.00	
15+91				357.05				341.90				355.00



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STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
**BOX BRIDGE CROSS-SECTION**  
 SCALE: 1"=10' HORIZ.  
 1"=1' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	8
CONST.	2015	BRZE-6600(15)	8

07/28/14 REVISED EPSC NOTES.  
10/16/14 REVISED EPSC NOTES.  
12/16/14 REVISED EPSC NOTES.

## EROSION PREVENTION & D 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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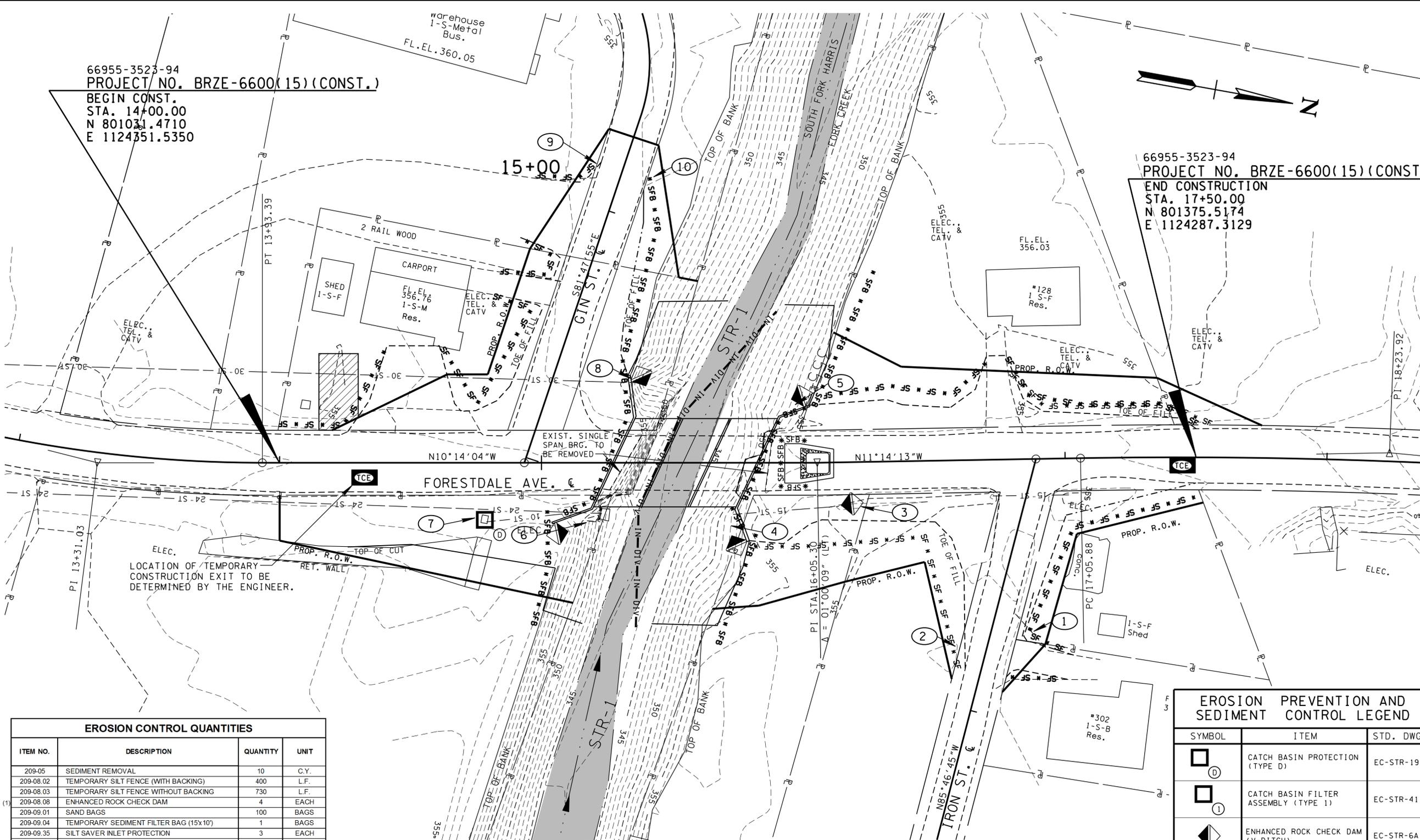
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**EROSION  
PREVENTION  
AND SEDIMENT  
CONTROL NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	9
CONST.	2015	BRZE-6600(15)	9

66955-3523-94  
**PROJECT NO. BRZE-6600(15) (CONST.)**  
 BEGIN CONST.  
 STA. 14+00.00  
 N 801031.4710  
 E 1124351.5350

66955-3523-94  
**PROJECT NO. BRZE-6600(15) (CONST.)**  
 END CONSTRUCTION  
 STA. 17+50.00  
 N 801375.5174  
 E 1124287.3129



LOCATION OF TEMPORARY CONSTRUCTION EXIT TO BE DETERMINED BY THE ENGINEER.

EROSION CONTROL QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
209-05	SEDIMENT REMOVAL	10	C.Y.
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	400	L.F.
209-08.03	TEMPORARY SILT FENCE WITHOUT BACKING	730	L.F.
(1) 209-08.08	ENHANCED ROCK CHECK DAM	4	EACH
209-09.01	SAND BAGS	100	BAGS
209-09.04	TEMPORARY SEDIMENT FILTER BAG (15x10')	1	BAGS
209-09.35	SILT SAVER INLET PROTECTION	3	EACH
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	930	S.Y.
209-40.33	CATCH BASIN PROTECTION (TYPE D)	1	EACH
209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	3	EACH
209-65.04	TEMPORARY IN STREAM DIVERSION	280	L.F.
(2) 709-05.05	MACHINED RIP-RAP (CLASS A-3)	80	TON
709-05.08	MACHINED RIP-RAP (CLASS B)	544	TON
(3) 740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	523	S.Y.
740-11.02	TEMPORARY SEDIMENT TUBE 12IN (DESCRIPTION)	76	L.F.
801-01.07	TEMPORARY SEEDING WITH MULCH	10	UNITS
801-01.65	TEMPORARY MULCH	14	UNITS
(4) 801-02	SEEDING (WITHOUT MULCH)	2	UNITS
801-03	WATER (SEEDING & SODDING)	7	M.G.
803-01	SODDING (NEW SOD)	690	S.Y.
(4) 805-12.02	EROSION CONTROL BLANKET (TYPE II)	240	S.Y.

OUTFALL INFORMATION				
OUTFALL LABEL	STATION	OUTFALL ACREAGE		RECIIVING NATURAL RESOURCE
		STAGE 1	STAGE 2	
1	10+85LT IRON ST.	0.05	0.05	STR-1
2	10+85RT IRON ST.	0.05	0.05	STR-1
3	16+20RT FORESDALE AVE.	0.05	0.05	STR-1
4	15+70RT FORESDALE AVE.	0.05	0.05	STR-1
5	15+90LT FORESDALE AVE.	0.10	0.10	STR-1
6	15+20RT FORESDALE AVE.	0.03	0.13	STR-1
7	14+80RT FORESDALE AVE.	0.10		STR-1
8	15+35LT FORESDALE AVE.	0.06	0.06	STR-1
9	12+85RT GIN ST.	0.03	0.03	STR-1
10	12+85LT GIN ST.	0.10	0.10	STR-1
11	14+20LT FORESDALE AVE.	0.15		STR-1
12	17+10RT FORESDALE AVE.	0.12		STR-1

BOX BRIDGE CONSTRUCTION PHASING:

SEE EC-STR-30 FOR INSTREAM DIVERSION DETAILS.

PHASE 1:

- REMOVE EXISTING BRIDGE BREAST WALLS USING SAND BAGS TO PROTECT THE STREAM.
- DIVERT STREAM FLOW TO NORTH, USE GEOTEXTILE FABRIC (TYPE III) LINING TO PROTECT DISTURBED STREAM BOTTOM.
- CONSTRUCT TWO (NORTH) BARRELS OF BOX BRIDGE SECTION

PHASE 2:

- DIVERT STREAM FLOW INTO CONSTRUCTED BARRELS.
- CONSTRUCT THIRD (NORTH) BARREL OF BOX BRIDGE SECTION.

**EROSION PREVENTION AND SEDIMENT CONTROL LEGEND**

SYMBOL	ITEM	STD. DWG.
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	SEDIMENT TUBE	EC-STR-37
	SEDIMENT FILTER BAG	EC-STR-2
	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	SILT FENCE	EC-STR-3B
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	OUTFALL LABEL	

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STAGE 1

STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION

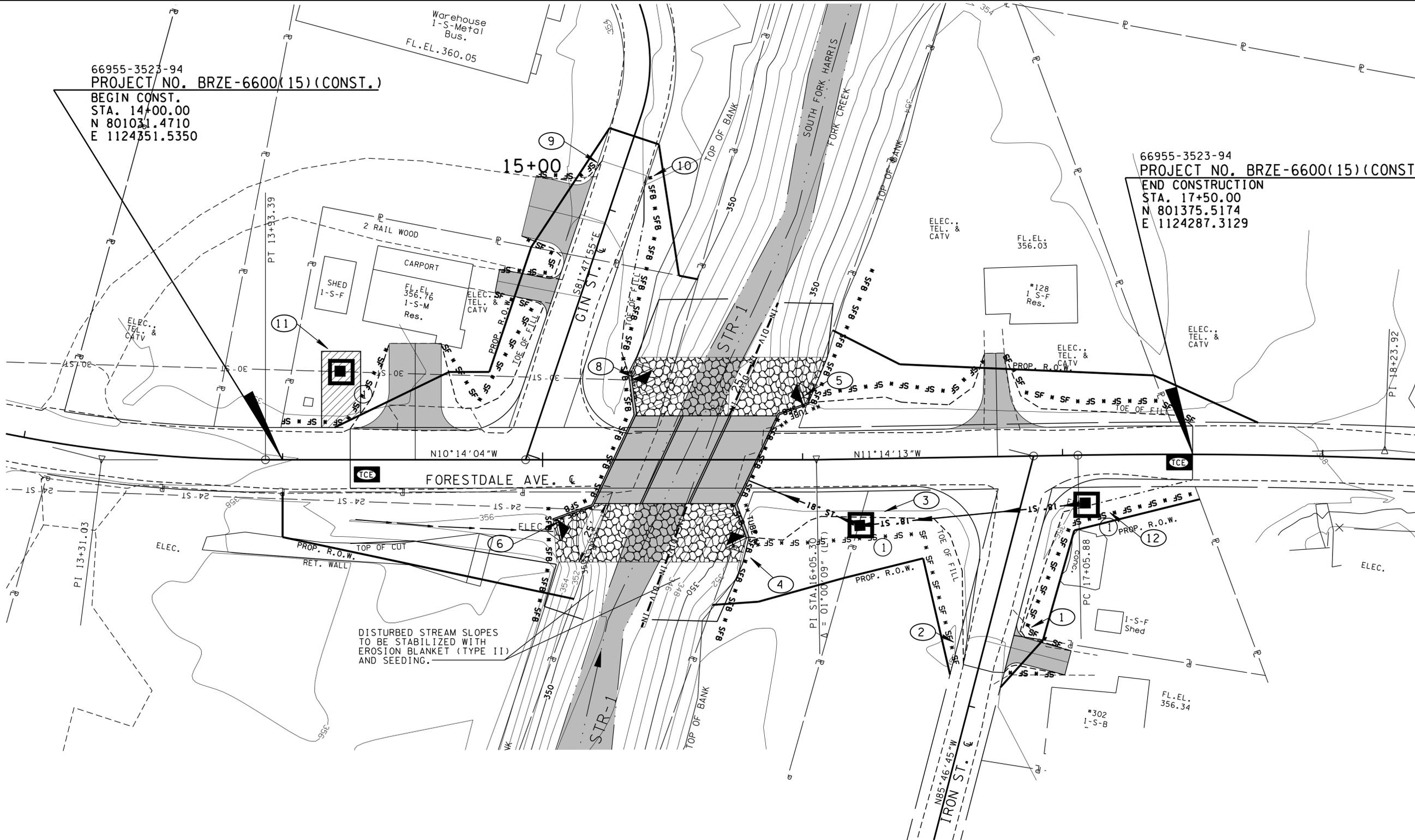
**EROSION PREVENTION AND SEDIMENT CONTROL PLAN**

STA. 14+26 TO STA. 17+50  
 SCALE: 1"=20'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	10
CONST.	2015	BRZE-6600(15)	10

66955-3523-94  
**PROJECT NO. BRZE-6600(15)(CONST.)**  
 BEGIN CONST.  
 STA. 14+00.00  
 N 801031.4710  
 E 1124351.5350

66955-3523-94  
**PROJECT NO. BRZE-6600(15)(CONST.)**  
 END CONSTRUCTION  
 STA. 17+50.00  
 N 801375.5174  
 E 1124287.3129



DISTURBED STREAM SLOPES  
 TO BE STABILIZED WITH  
 EROSION BLANKET (TYPE II)  
 AND SEEDING.

- NOTES:
1. STREAM FLOW MUST HAVE A STABILIZED FLOW PATH DURING ALL PHASES OF DIVERSION.
  2. STREAM SHALL NOT BE DIVERTED INTO AN STABILIZED AREA OR WHERE IT COULD CAUSE EROSION OR SCOUR.

**UNOFFICIAL  
 SET  
 NOT FOR  
 BIDDING**

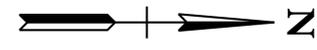
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STAGE 2  
 STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION

**EROSION  
 PREVENTION  
 AND SEDIMENT  
 CONTROL PLAN**  
 STA. 14+26 TO STA. 17+50  
 SCALE: 1"=20'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	BRZE-6600(15)	11



BROADWAY ST.

CENTRAL AVE.

FORESTDALE AVE 72" X 12"

COLLINWOOD ST.

E. SMITH ST.

GIN ST.

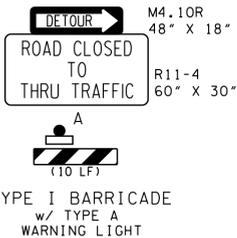
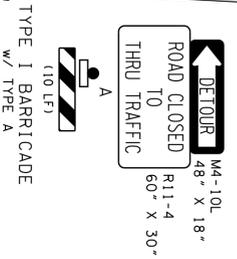
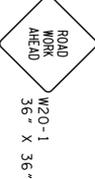
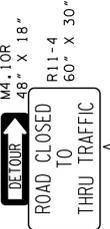
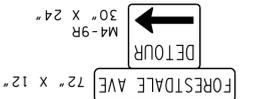
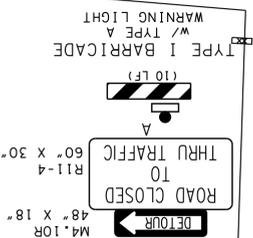
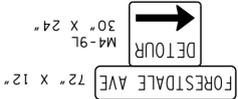
FORESTDALE AVE.

HOLME ST.

HOLME ST.

IRON ST.

STATE LINE ST.



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DEPARTMENT OF TRANSPORTATION

**TRAFFIC  
CONTROL  
PLAN**

NOT TO SCALE

**TRAFFIC CONTROL QUANTITIES**

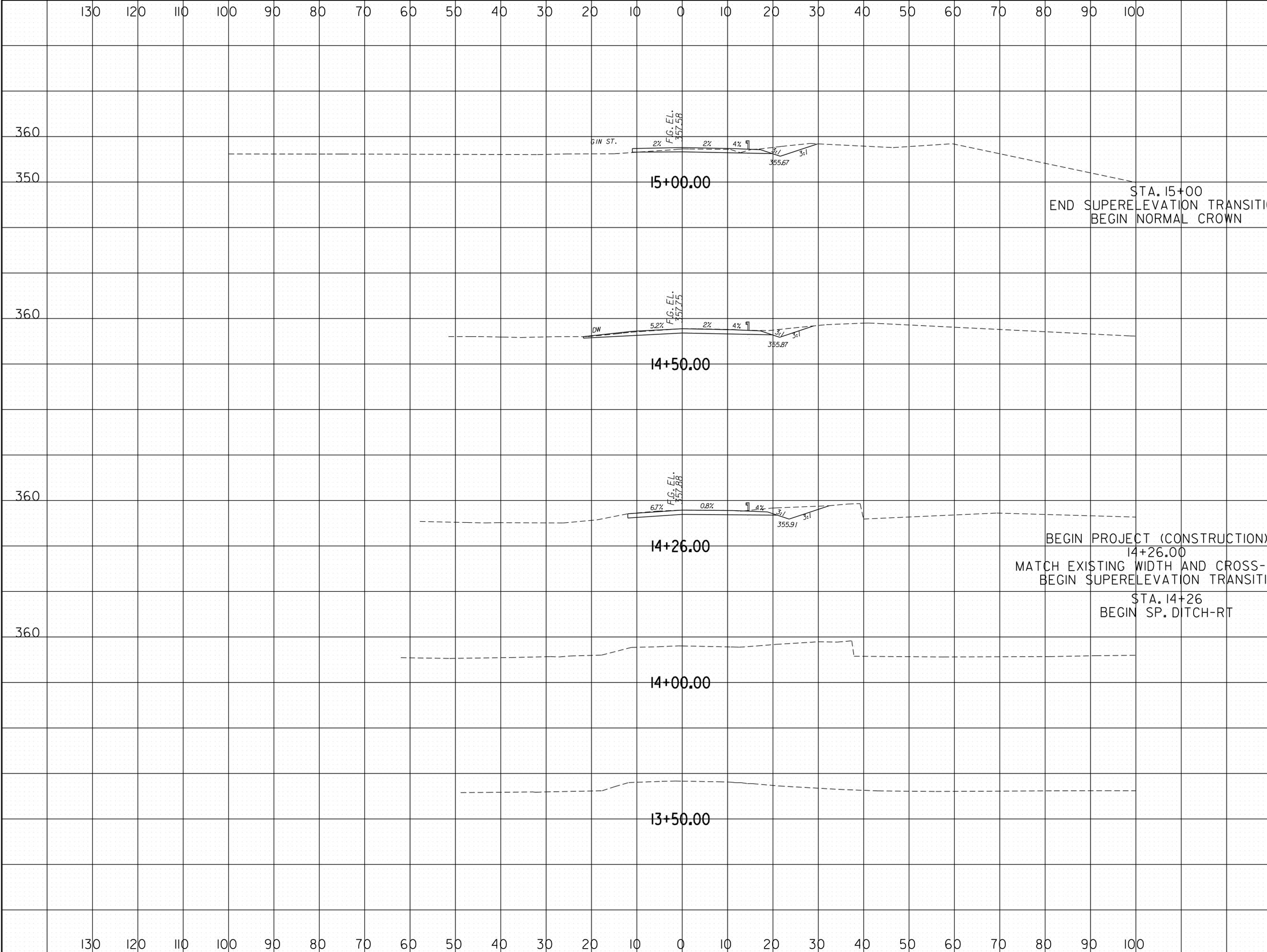
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
(1) 712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	10				
712-05.01	WARNING LIGHTS (TYPE A)	EACH	13				
712-07.01	TEMPORARY BARRICADE (TYPE I)	LF	60				
712-07.03	TEMPORARY BARRICADE (TYPE III)	LF	80				
712-06	SIGNS (CONSTRUCTION)	S.F.	2	6.0	24x18	M4.8A	
712-06	SIGNS (CONSTRUCTION)	S.F.	3	15.0	30x24	M4-9L	
712-06	SIGNS (CONSTRUCTION)	S.F.	3	15.0	30x24	M4-9R	
712-06	SIGNS (CONSTRUCTION)	S.F.	1	6.0	48x18	M4-10L	
712-06	SIGNS (CONSTRUCTION)	S.F.	4	24.0	48x18	M4-10R	
712-06	SIGNS (CONSTRUCTION)	S.F.	4	40.0	48x30	R11-2	
712-06	SIGNS (CONSTRUCTION)	S.F.	6	75.0	60x30	R11-4	
712-06	SIGNS (CONSTRUCTION)	S.F.	1	9.0	36x36	W20-1	
712-06	SIGNS (CONSTRUCTION)	S.F.	1	4.5	36x18	G20-2	
712-06	SIGNS (CONSTRUCTION)	S.F.	4	24.0	72x12		FORESTDALE AVE
<b>TOTAL</b>			<b>219</b>				

(1) TO BE USED AS DIRECTED BY THE ENGINEER

**NOTES:**

- CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE WITH ADJACENT CENTRAL AVE BRIDGE CONSTRUCTION. CONTRACTOR IS ALLOWED TO CLOSE ONE BRIDGE AT A TIME IN ORDER TO MAINTAIN ACCESS FOR THE AREA.
- EXACT PLACEMENT OF SIGNS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	11
CONST.	2015	BRZE-6600(15)	12



CUT AREA	FILL AREA
30	0
42	0
51	0

360  
350

360  
360

360  
360

360  
360

360  
360

360  
360

360  
360

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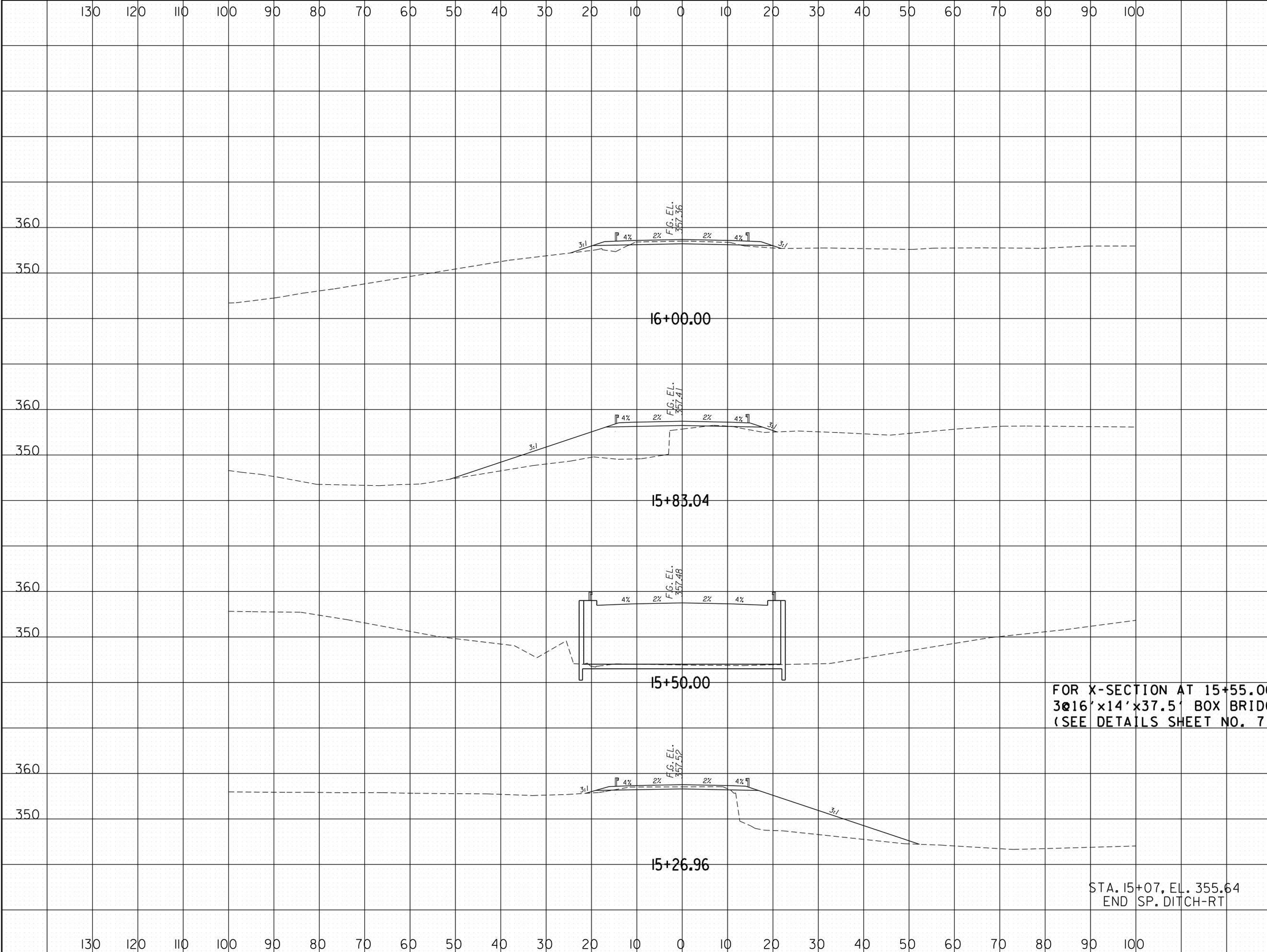
ROADWAY  
CROSS SECTIONS  
FORESDALE AVE.  
SCALE: 1" = 10' HORIZ.  
1" = 10' VERT.

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	12
CONST.	2015	BRZE-6600(15)	13



CUT AREA  
FILL AREA

360

350

360

350

360

350

360

350

ROADWAY  
CROSS SECTIONS

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

16+00.00

15+83.04

15+50.00

15+26.96

FOR X-SECTION AT 15+55.00  
3@16'x14'x37.5' BOX BRIDGE  
(SEE DETAILS SHEET NO. 7)

STA. 15+07, EL. 355.64  
END SP. DITCH-RT

13

13

1

212

13

189

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130

120

110

100

90

80

70

60

50

40

30

20

10

0

10

20

30

40

50

60

70

80

90

100

130

120

110

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60

70

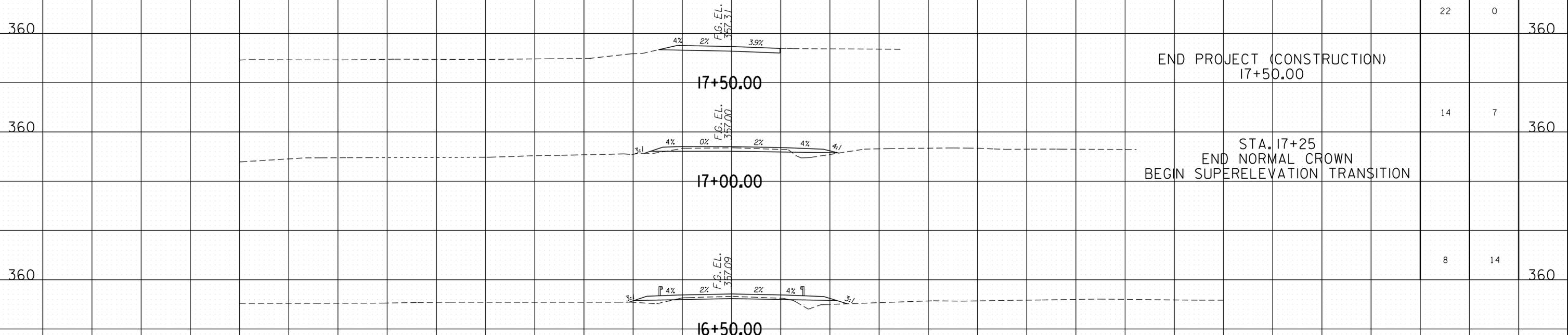
80

90

100

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	13
CONST.	2015	BRZE-6600(15)	14

CUT AREA  
FILL AREA



END PROJECT (CONSTRUCTION)  
17+50.00

STA. 17+25  
END NORMAL CROWN  
BEGIN SUPERELEVATION TRANSITION

22      0      360

14      7      360

8      14      360

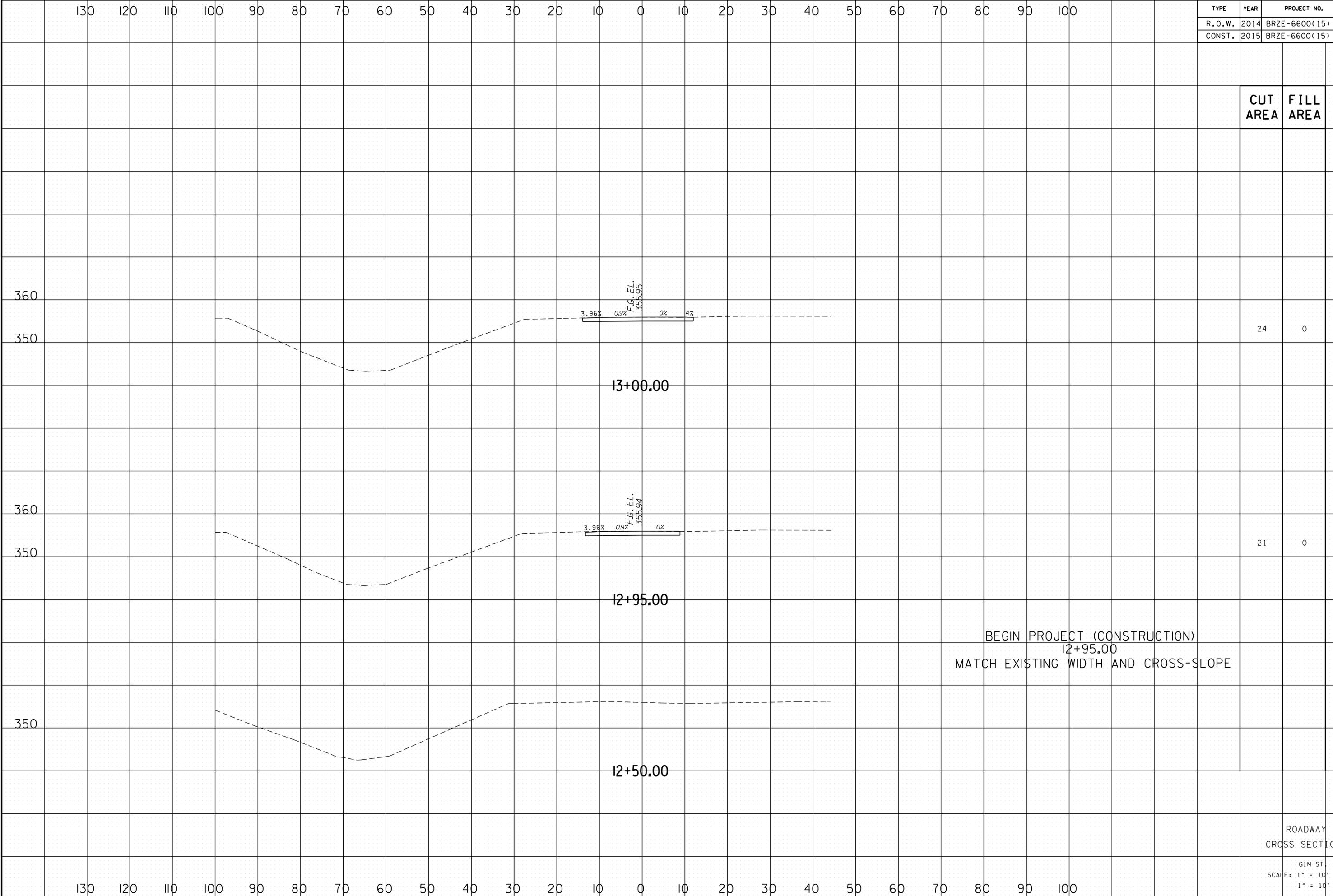
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CROSS SECTIONS  
FORESTDALE AVE.  
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1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	14
CONST.	2015	BRZE-6600(15)	15

CUT AREA	FILL AREA
24	0



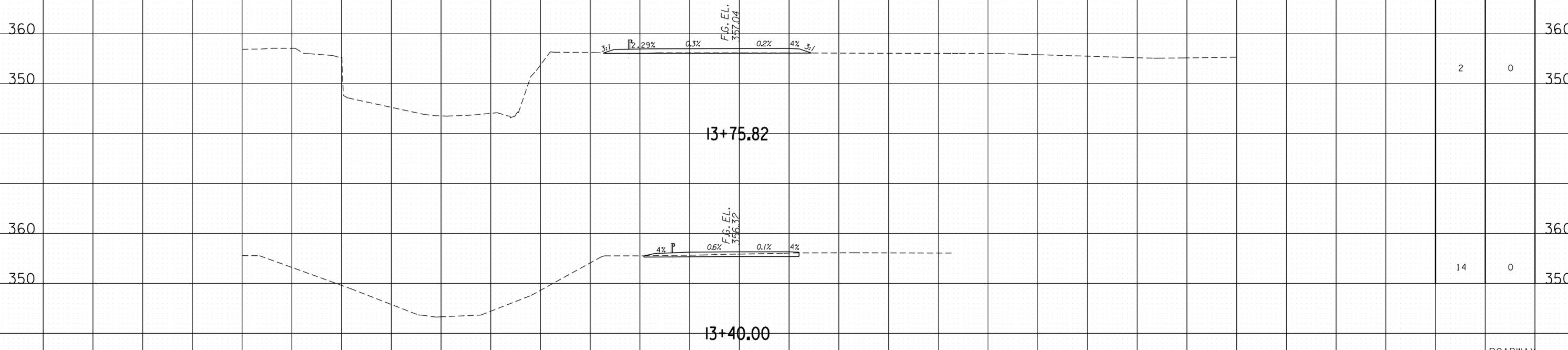
BEGIN PROJECT (CONSTRUCTION)  
 12+95.00  
 MATCH EXISTING WIDTH AND CROSS-SLOPE

ROADWAY  
 CROSS SECTIONS  
 GIN ST.  
 SCALE: 1" = 10' HORIZ.  
 1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	15
CONST.	2015	BRZE-6600(15)	16

CUT AREA	FILL AREA
2	0
14	0



ROADWAY  
 CROSS SECTIONS

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

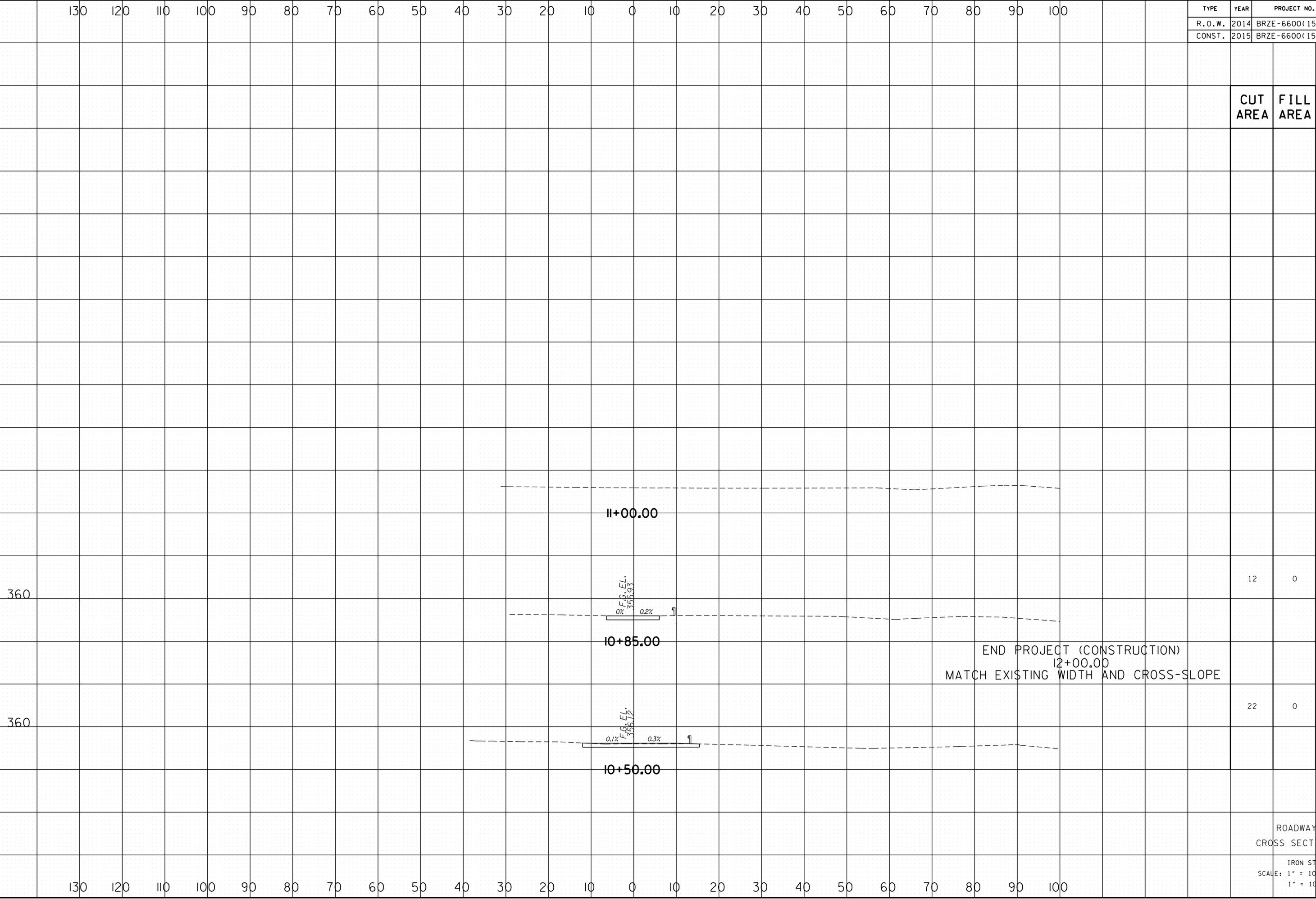
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130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	BRZE-6600(15)	16
CONST.	2015	BRZE-6600(15)	17

CUT AREA	FILL AREA



12	0	360
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22	0	360
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ROADWAY  
CROSS SECTIONS

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

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