



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
REGION 3 PROJECT DEVELOPMENT
6601 CENTENNIAL BLVD.
NASHVILLE, TN 37243-0360
(615) 350-4250

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

MEMORANDUM

TO: Director, Right-of-Way Division

FROM: Ryan Sweeney, Civil Engineering Manager 1

DATE: December 4, 2017

SUBJECT: Project No. HSIP-I-440-4(81); 9014-1162-94
PIN 119734.00
Davidson County
I-440 INTERCHANGE AT HILLSBORO ROAD (21ST AVE) EXIT 3, WB
RAMP

The subject project is being submitted for (Utilities Only) plans submittal. The following information is being forwarded for plans distribution:

Plans have been placed on FileNet: PDF Filename: 119734-00-ROW.pdf
EXE Filename: 119734-00-ROW.zip
Added On Date: 12-04-2017

Preliminary Estimate Emailed Date: 12-04-2017

Comments: Final ROW (Utilities Only) Submittal

For further information, please contact Ryan Sweeney, Phone: (615)350- 4277, Email: ryan.sweeney@tn.gov

cc: Program Development & Scheduling Office
Program Operations Office
Environmental Division
Structures Division
Region 3 Right-of-Way Office

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

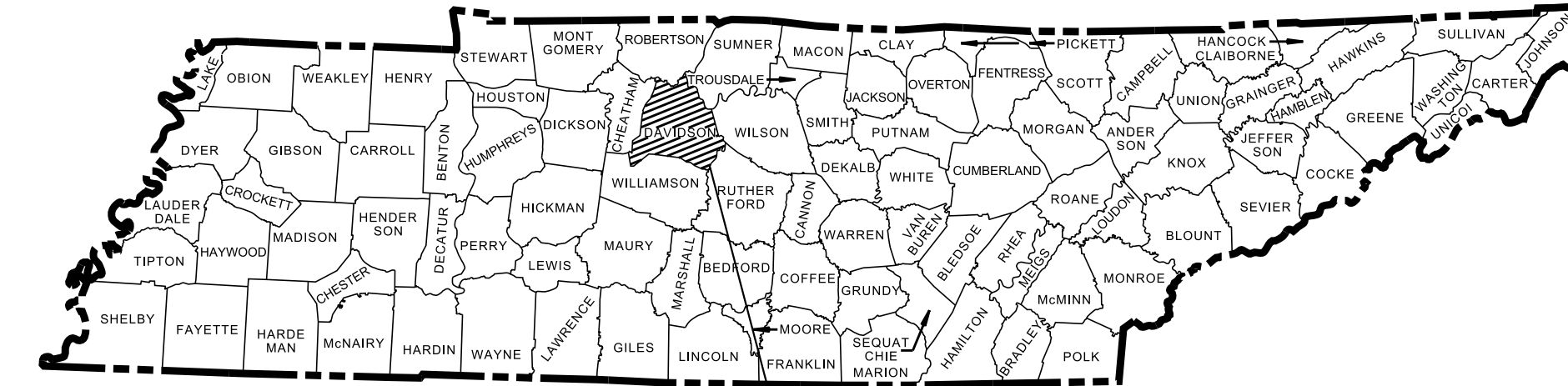
DAVIDSON COUNTY

I - 440 INTERCHANGE AT HILLSBORO ROAD (21ST AVENUE)
EXIT 3, WESTBOUND RAMP

RIGHT-OF-WAY (UTILITIES ONLY)

STATE HIGHWAY NO. I - 440 F.A.H.S. NO. I - 440

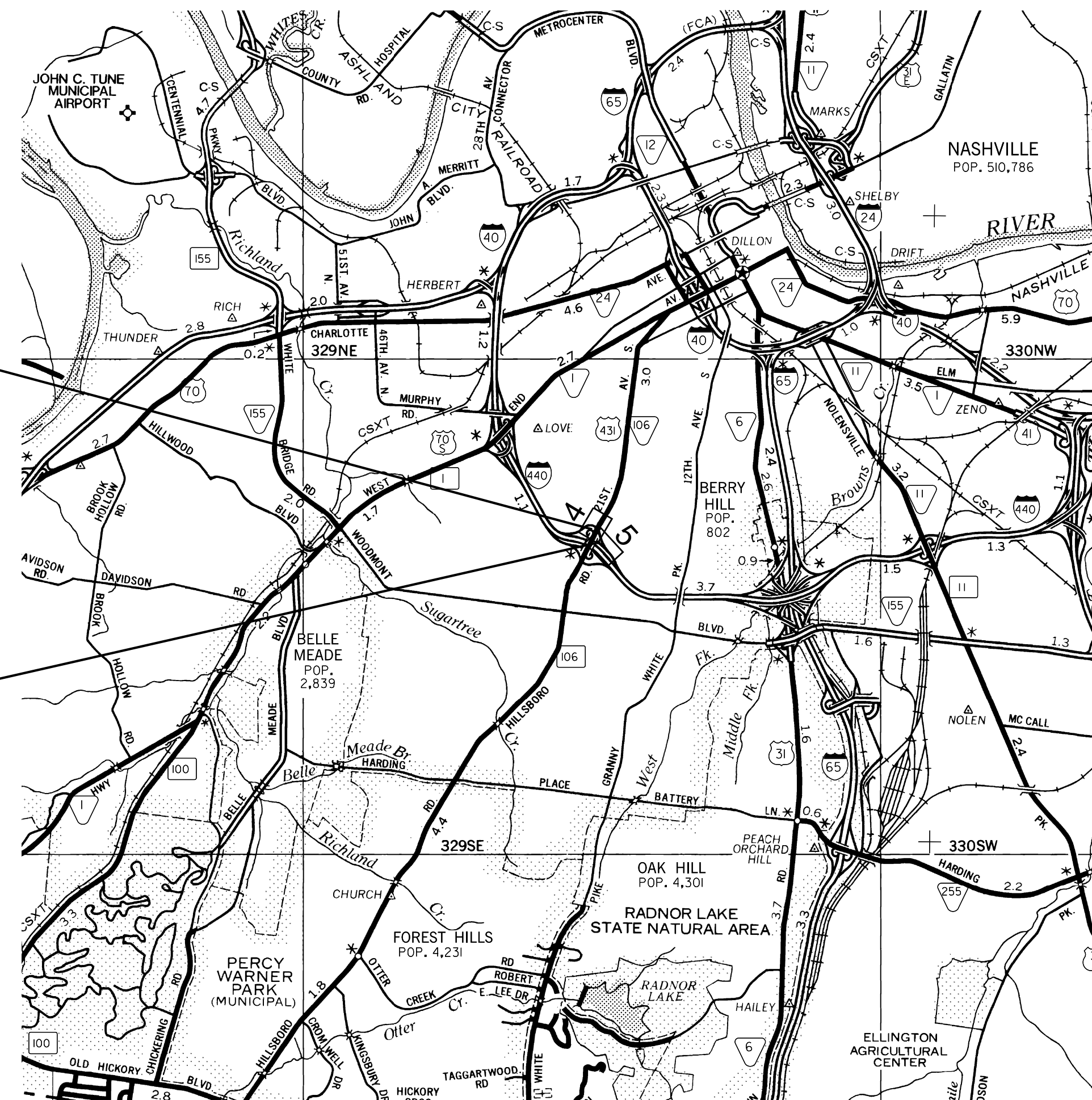
TENN.	YEAR	SHEET NO.
	2017	1
FED. AID PROJ. NO.	HSIP - I - 440 - 4(81)	
STATE PROJ. NO.	19014-1162-94	



PROJ. NO. HSIP - I - 440 - 4(81) (R.O.W.)
DAVIDSON COUNTY

19014-1162-94
BEGIN PROJECT NO. HSIP - I - 440 - 4(81) (R.O.W.)
STA. 13+43.35
N 653022.4399 E 1730517.6439

19014-1162-94
END PROJECT NO. HSIP - I - 440 - 4(81) (R.O.W.)
STA. 22+00.00
N 652321.3216 E 1730947.4993



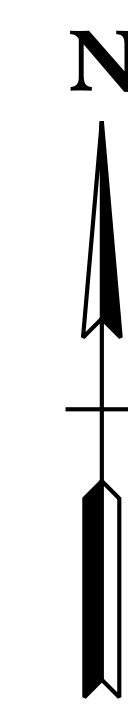
SCALE: 1"= 1 MILE

R.O.W. PROJECT LENGTH 0.00 MILES

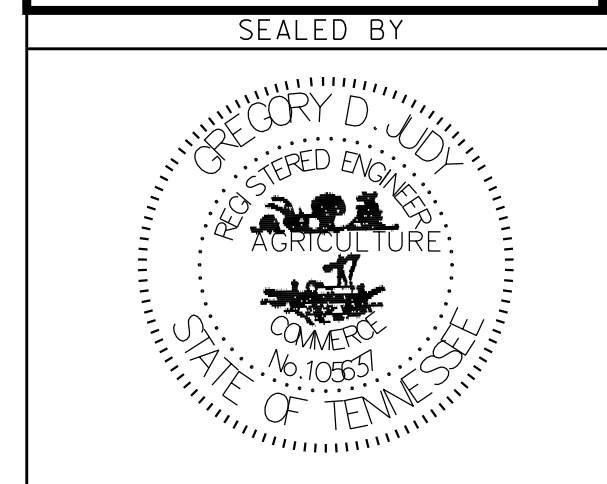
NO EXCLUSIONS
NO EQUATIONS

RSAR PROJECT -
PROJECT OF LIMITED SCOPE

NO R.O.W. ACQUISITION
REQUIRED ON THIS PROJECT



R.O.W.
PLANS
(UTILITIES ONLY)



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 JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

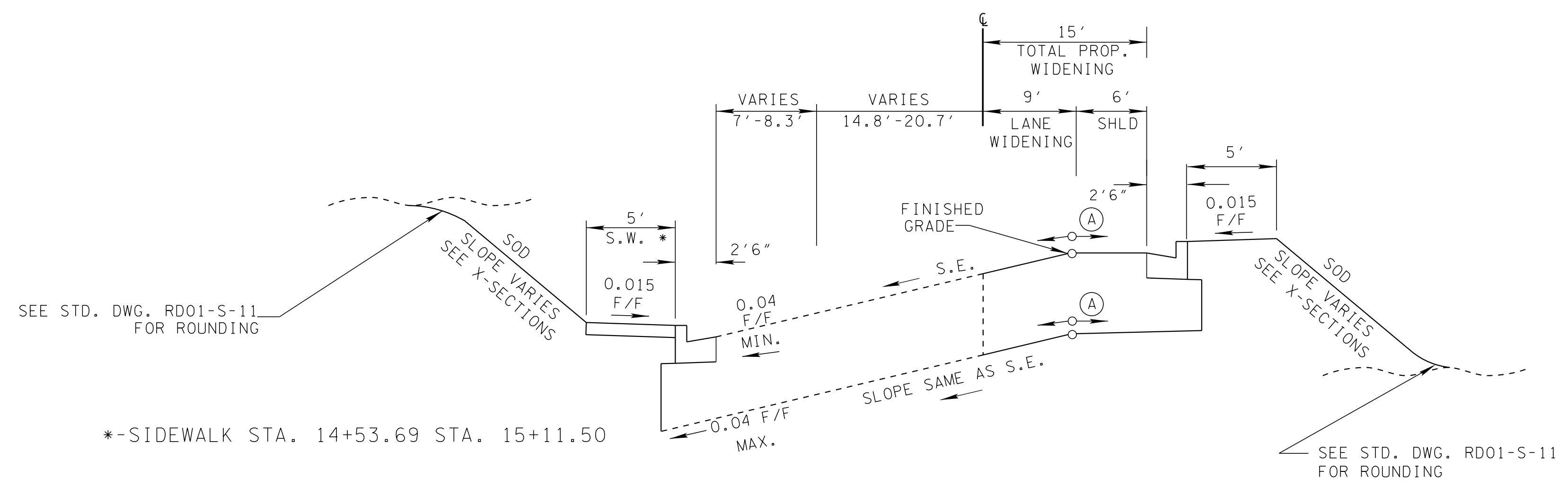
TDOT C.E. MANAGER 1: RYAN SWEENEY, P.E.
DESIGNED BY: NEEL-SCHAFFER, INC.
DESIGNER: GREGORY JUDY, P.E. CHECKED BY: BARRY ALEXANDER, P.E.
P.E. NO. 19014-1162-94 (DESIGN)
PIN NO. 119734.00

SURVEY 5-4-2016	TRAFFIC DATA	
	ADT (2018)	11,000
	ADT (2038)	12,540
	DHV (2038)	1,223
	D	60 - 40
	T (ADT)	8 %
	T (DHV)	12 %
	V	35 MPH

COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED: _____
DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-1-440-4(81)	2

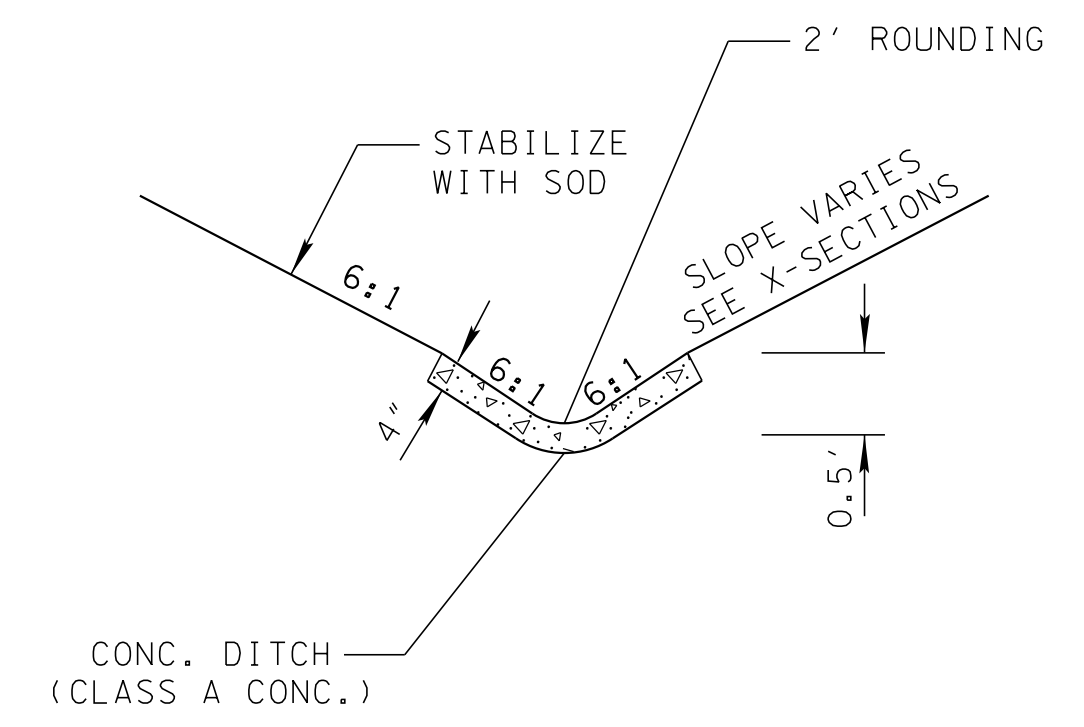


*-SIDEWALK STA. 14+53.69 STA. 15+11.50

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

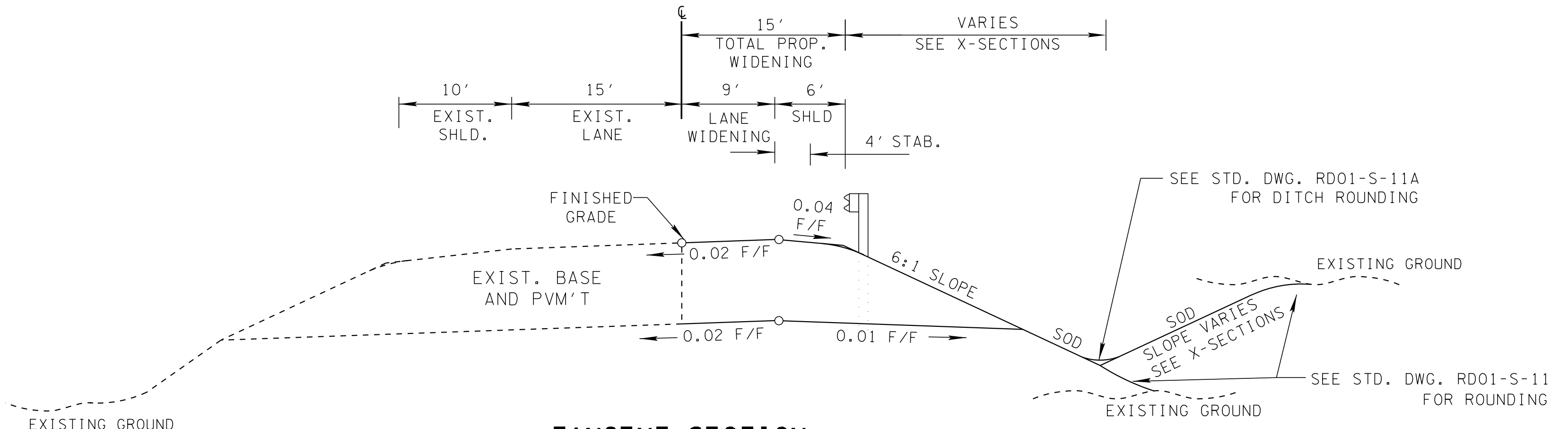
SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-4 & RD01-TS-6)
 I-440 WB OFF RAMP: STA. 14+53.69 TO STA. 15+11.50 (LT)
 STA. 14+84.71 TO STA. 15+11.50 (RT)



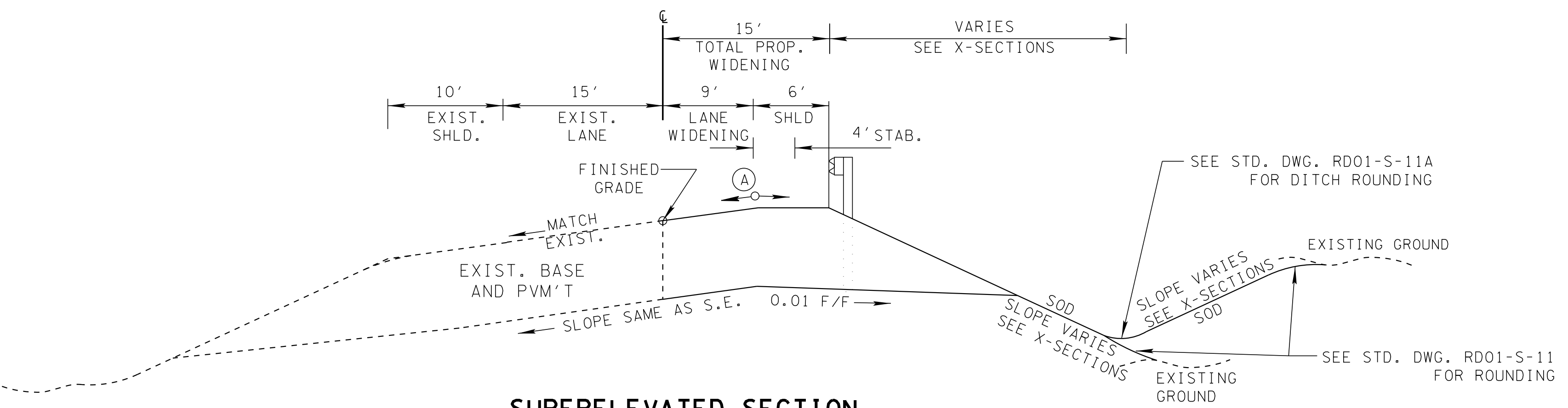
PROPOSED CONCRETE DITCH

I-440 WB OFF RAMP: STA. 16+50.00 (RT) TO STA. 18+50.00(RT)



TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-4)
 I-440 WB OFF RAMP: STA. 19+50.00 TO STA. 22+00.00



SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-4)
 I-440 WB OFF RAMP: STA. 15+11.50 TO STA. 19+50.00

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

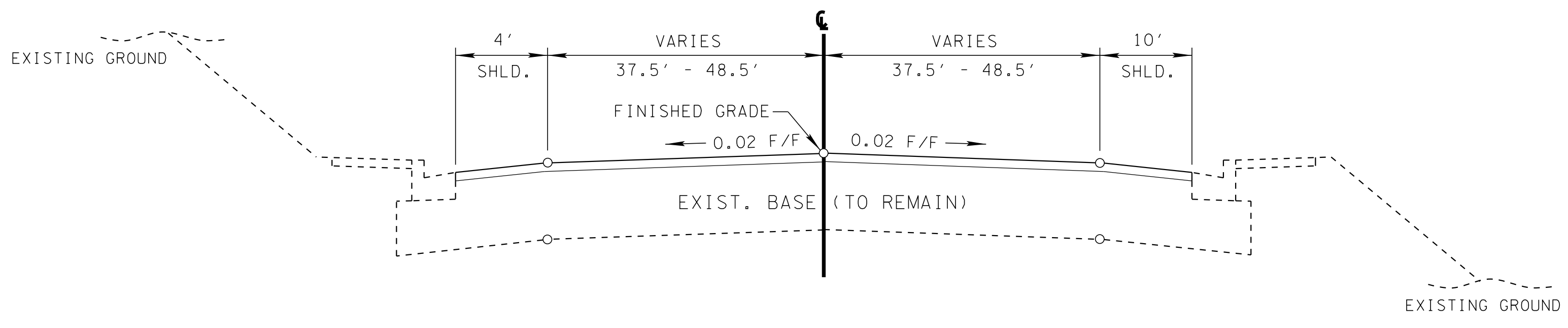
R.O.W. PLANS
(UTILITIES ONLY)

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

TYPICAL
SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-1-440-4(81)	2A



TANGENT SECTION
 (MILL & OVERLAY)
 HILLSBORO PIKE: STA. 100+93.40 TO STA. 107+34.15

**R.O.W.
 PLANS**
 (UTILITIES ONLY)

SEALED BY

**STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION**

**TYPICAL
 SECTIONS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSP-1-440-4(81)	3

UTILITIES

- (1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- (2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- (3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- (5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

UTILITY OWNER

TELEPHONE:
AT&T
 333 Commerce Street, Rm. 23C-142
 Nashville, TN 37201
 Kim Bean
 kb1078@att.com
 O: 615-214-7318

CABLE:
COMCAST
 2501 McGavock Pike
 Nashville, TN 37214
 Larry K. Wilburn
 larry_wilburn@cable Comcast.com
 O: (615) 244-7462X1115140
 C: (615) 295-9069

WATER & SEWER:
Metro Water & Sewer
 1600 Second Avenue North
 Nashville, TN 37208
 Steve Nunley
 steve.nunley@nashville.gov
 O: 615-862-4534

STREET LIGHTS:
Metro Public Works
 720 South Fifth Street
 Nashville, TN 37206
 Mark Sturtevant
 mark.sturtevant@nashville.gov
 O: 615-862-6000

ELECTRIC:
Nashville Electric Service
 1214 Church Street, Room 353
 Nashville, TN 37246
 Ron Davidson
 rdavidson@nespower.com
 O: 615-747-3530

GAS:
Piedmont Gas Company
 83 Century Boulevard
 Nashville, TN 37214
 Bobby Worthington
 bobby.worthington@piedmontng.com
 O: 615-872-2332

FIBER OPTIC:
LEVEL 3 COMMUNICATIONS
 1025 Eldorado Blvd., 43C-420
 Broomfield, CO 80021
 Patrick Provost
 patrick.provost@level3.com
 O: (720) 888-4686

Google Network
 2501 Perimeter Place, Suite # 200
 Nashville, TN 37214
 Nicholas Fischer
 nfischer@google.com
 312-533-7966

DISTURBED AREA	
IN BETWEEN SLOPE LINES	0.750 (AC)
PROPOSED R.O.W. (OUTSIDE SLOPE LINES)	0.000 (AC)
TOTAL DISTURBED AREA	0.750 (AC)

**R.O.W.
PLANS
(UTILITIES ONLY)**

SEALED BY

**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

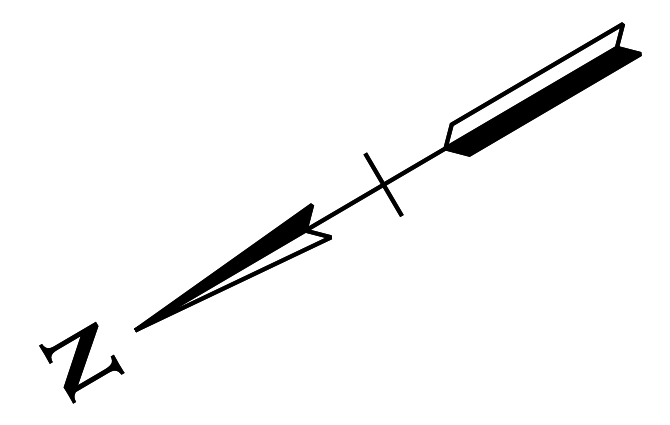
RIGHT-OF-WAY
NOTES,
UTILITY NOTES
AND
UTILITY OWNERS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-1-440-4(81)	4

NATURAL GAS LINE NOTE:
 CONTRACTOR SHALL CONTACT TIM COOK WITH PIEDMONT NATURAL GAS (615-872-2351) PRIOR TO EXCAVATING WITHIN 3 FEET OF NATURAL GAS FACILITIES IN THIS AREA.

CURVE 440RAMP-1
 PI 15+46.53
 N 652,819.9499
 E 1,730,534.3545
 Δ 16° 23' 52" (LT)
 D 22° 02' 13"
 R 260.00
 L 74.41
 T 37.46
 SE MATCH EXIST.
 DESIGN SPEED MATCH EXIST.
 TRANS. LENGTH MATCH EXIST.

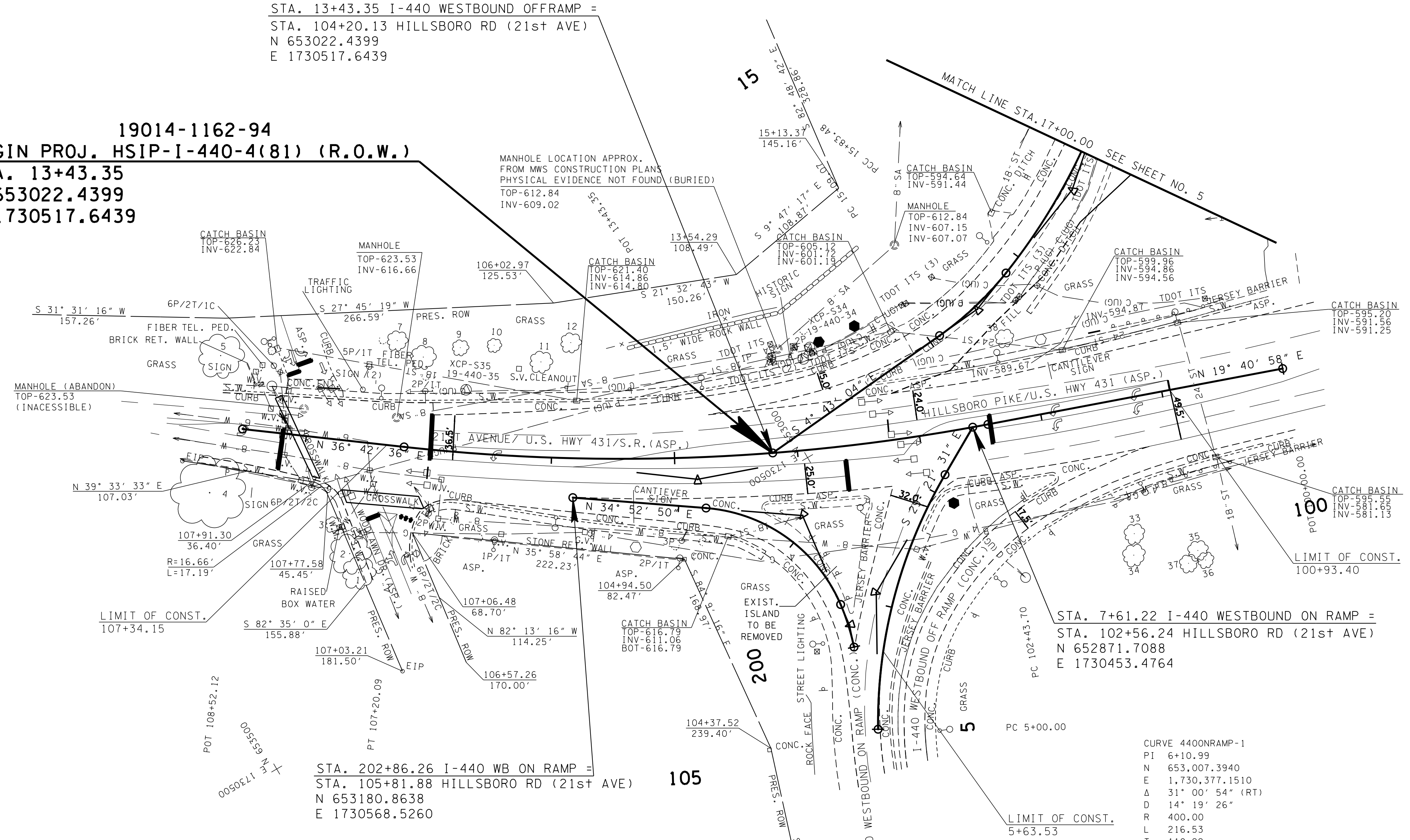
CURVE 440RAMP-2
 PI 16+69.82
 N 652,704.4618
 E 1,730,578.9534
 Δ 19° 35' 39" (LT)
 D 11° 27' 33"
 R 500.00
 L 170.99
 T 86.34
 SE MATCH EXIST.
 DESIGN SPEED MATCH EXIST.
 TRANS. LENGTH MATCH EXIST.



19014-1162-94
 BEGIN PROJ. HSIP-I-440-4(81) (R.O.W.)
 STA. 13+43.35
 N 653022.4399
 E 1730517.6439

STA. 13+43.35 I-440 WESTBOUND OFFRAMP =
 STA. 104+20.13 HILLSBORO RD (21st AVE)
 N 653022.4399
 E 1730517.6439

000559 N
 173000 E



CURVE SC009
 PI 104+83.66
 N 653,085.8600
 E 1,730,530.0287
 Δ 17° 01' 38" (RT)
 D 3° 34' 27"
 R 1,603.00
 L 476.38
 T 239.96
 SE EXIST.
 DESIGN SPEED EXIST.
 TRANS. LENGTH EXIST.

CURVE 4400NRAMPBASE-1
 PI 200+18.21
 N 653,039.4759
 E 1,730,365.4371
 Δ 11° 33' 20" (LT)
 D 31° 49' 52"
 R 180.00
 L 36.30
 T 18.21
 SE EXIST.
 DESIGN SPEED EXIST.
 TRANS. LENGTH EXIST.

CURVE 4400NRAMPBASE-2
 PI 201+14.92
 N 653,027.3328
 E 1,730,461.4985
 Δ 62° 19' 26" (LT)
 D 44° 04' 25"
 R 130.00
 L 141.41
 T 78.61
 SE EXIST.
 DESIGN SPEED EXIST.
 TRANS. LENGTH EXIST.

POINT	NORTHING	EASTING	ELEV.	FEATURE	GPS POINT	STATION	OFFSET
S30	650876.7358	1732053.7386	576.41	XCP	GPS19-440-30	40+25.77	-27.24
S31	651302.2189	1731783.7350	582.28	XCP	GPS19-440-31	35+20.28	-29.04
S32	652042.8328	1731266.7713	579.48	XCP	GPS19-440-32	26+21.13	-32.33
S33	652644.5275	1730588.9564	592.64	XCP	GPS19-440-33	17+22.17	32.62
S34	652962.3589	1730570.8973	610.95	XCP	GPS19-440-34	13+96.03	-28.59
S35	653211.3772	1730687.9836	624.81	XCP	GPS19-440-35	11+10.58	-14.78

R.O.W.
 PLANS
 (UTILITIES ONLY)

SEALED BY

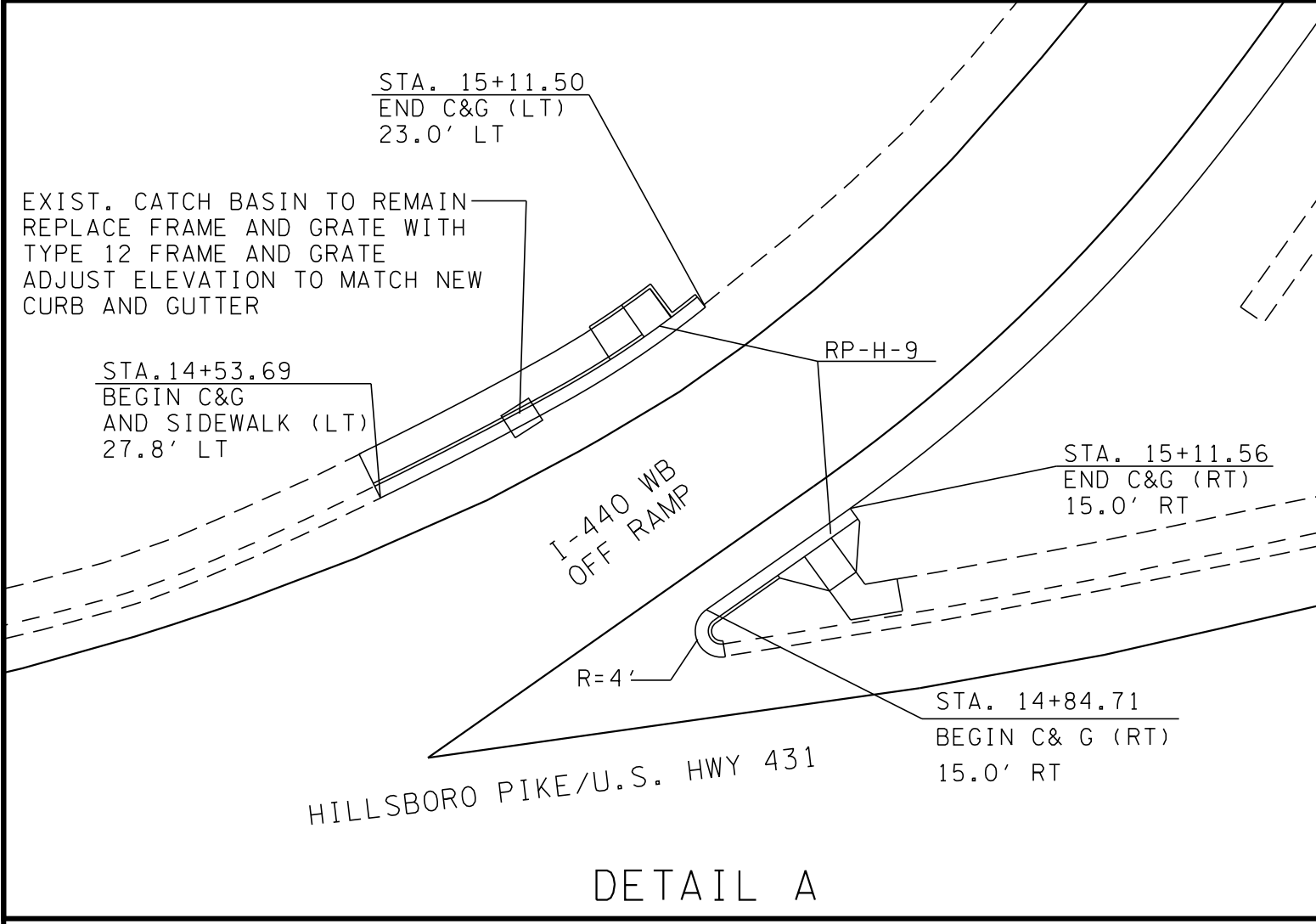
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION

SPECIAL NOTE:
 4" GAS LINE PRESENT
 UNDER ISLAND

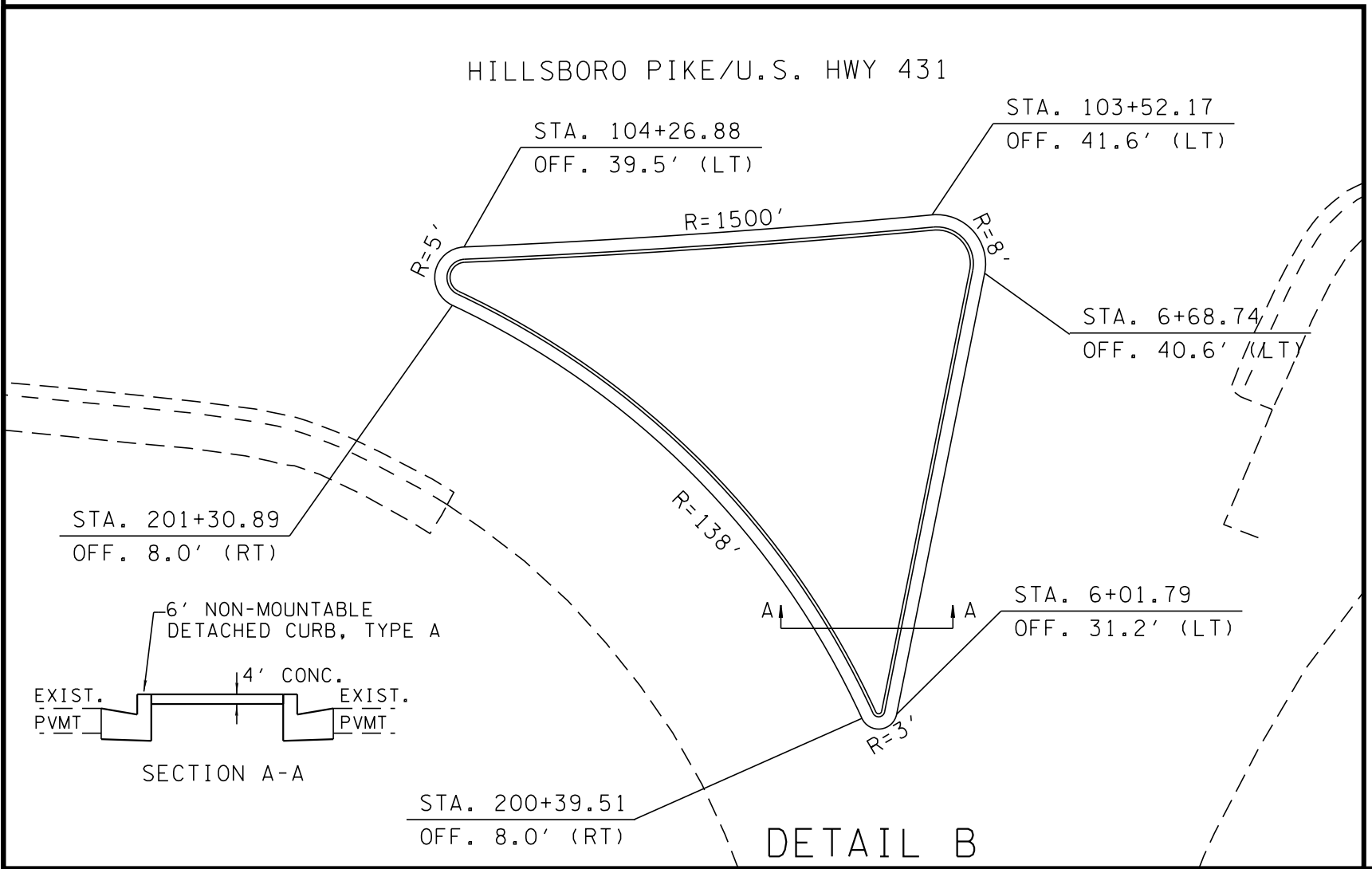
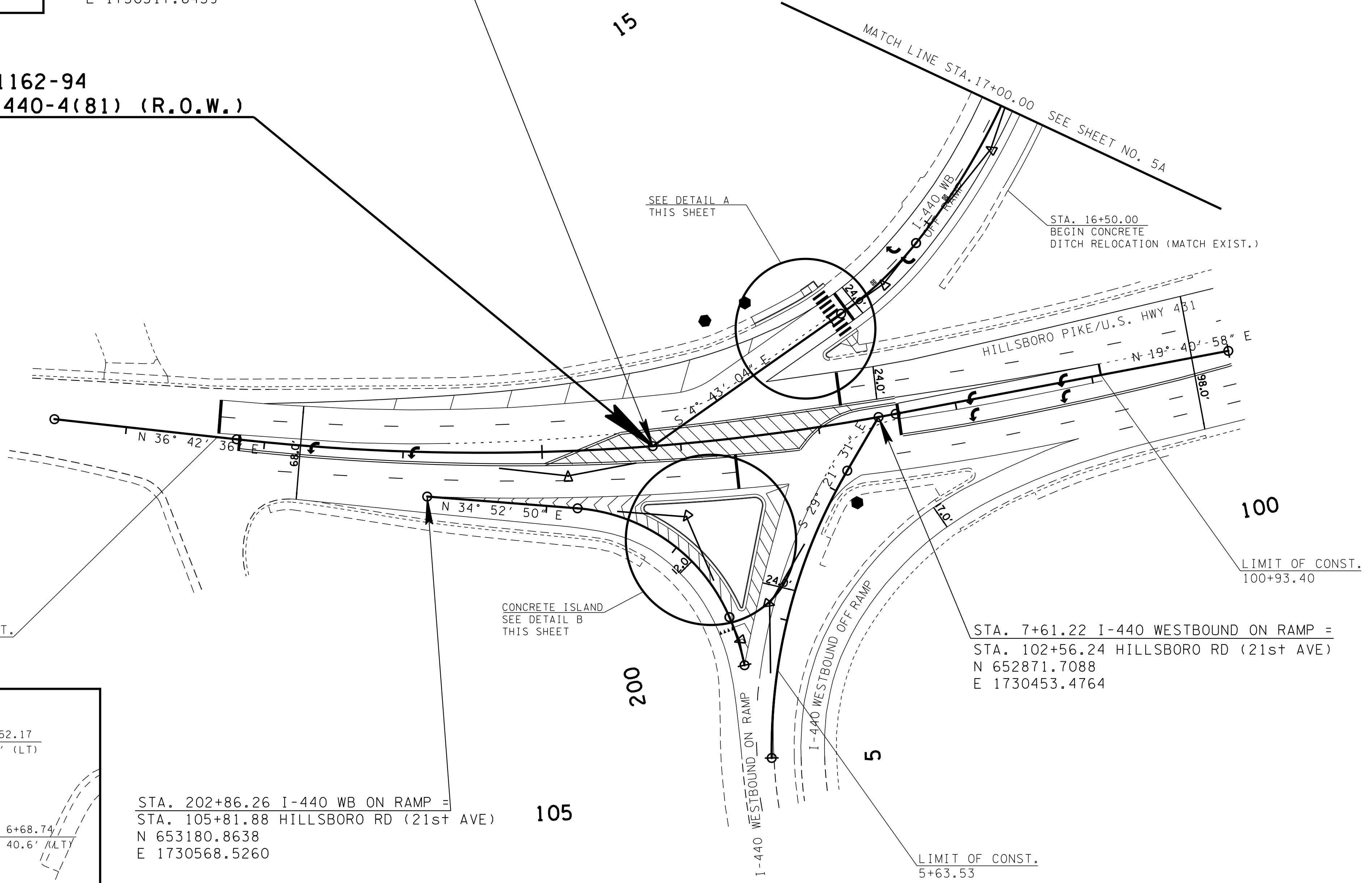
PRESENT
 LAYOUT
 STA. 13+43 TO STA. 17+00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-I-440-4(81)	4A



STA. 13+43.35 I-440 WESTBOUND OFFRAMP =
 STA. 104+20.13 HILLSBORO RD (21st AVE)
 N 653022.4399
 E 1730517.6439

19014-1162-94
BEGIN PROJ. HSIP-I-440-4(81) (R.O.W.)
STA. 13+43.35
N 653022.4399
E 1730517.6439



STA. 202+86.26 I-440 WB ON RAMP =
 STA. 105+81.88 HILLSBORO RD (21st AVE)
 N 653180.8638
 E 1730568.5260

R.O.W. PLANS
(UTILITIES ONLY)

SEALED BY

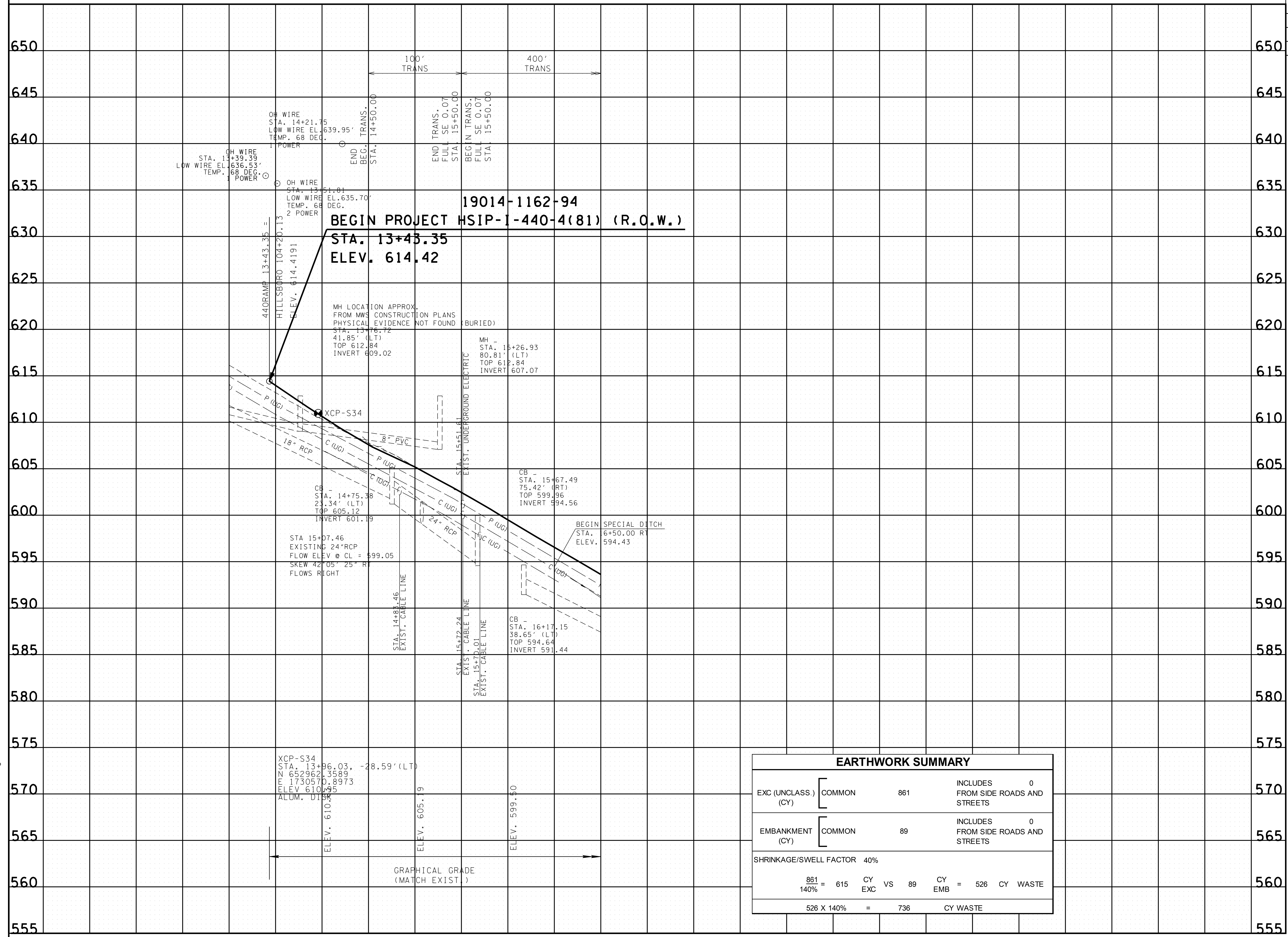
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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

PROPOSED LAYOUT

STA. 13+43 TO STA. 17+00
 SCALE: 1"=50'

8/3/2017 10:33:34 AM N:\12862 - TDOT Traffic\008 I440 at Hillsboro\ldgn\004A.sht



19014-1162-94
BEGIN PROJECT HSIP-I-440-4(81) (R.O.W.)
STA. 13+43.35
ELEV. 614.42

EARTHWORK SUMMARY			
EXC (UNCLASS.) (CY)	COMMON	861	INCLUDES 0 FROM SIDE ROADS AND STREETS
EMBANKMENT (CY)	COMMON	89	INCLUDES 0 FROM SIDE ROADS AND STREETS
SHRINKAGE/SWELL FACTOR 40%			
861 = 615 CY EXC VS 89 CY EMB = 526 CY WASTE			
526 X 140% = 736 CY WASTE			

R.O.W. PLANS
 (UTILITIES ONLY)

SEALED BY

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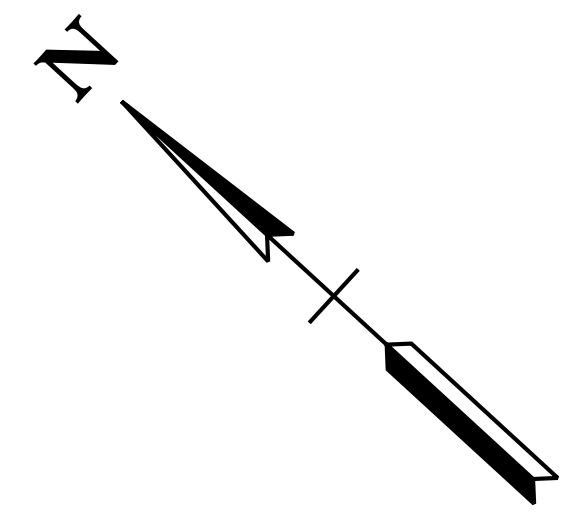
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

PROPOSED PROFILE

STA. 13+43 TO STA.17+00
 SCALE: 1"=50' HORIZ.
 1"=5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-1440-4(81)	5

NATURAL GAS LINE NOTE:
 CONTRACTOR SHALL CONTACT TIM COOK WITH PIEDMONT NATURAL GAS (615-872-2351) PRIOR TO EXCAVATING WITHIN 3 FEET OF NATURAL GAS FACILITIES IN THIS AREA.



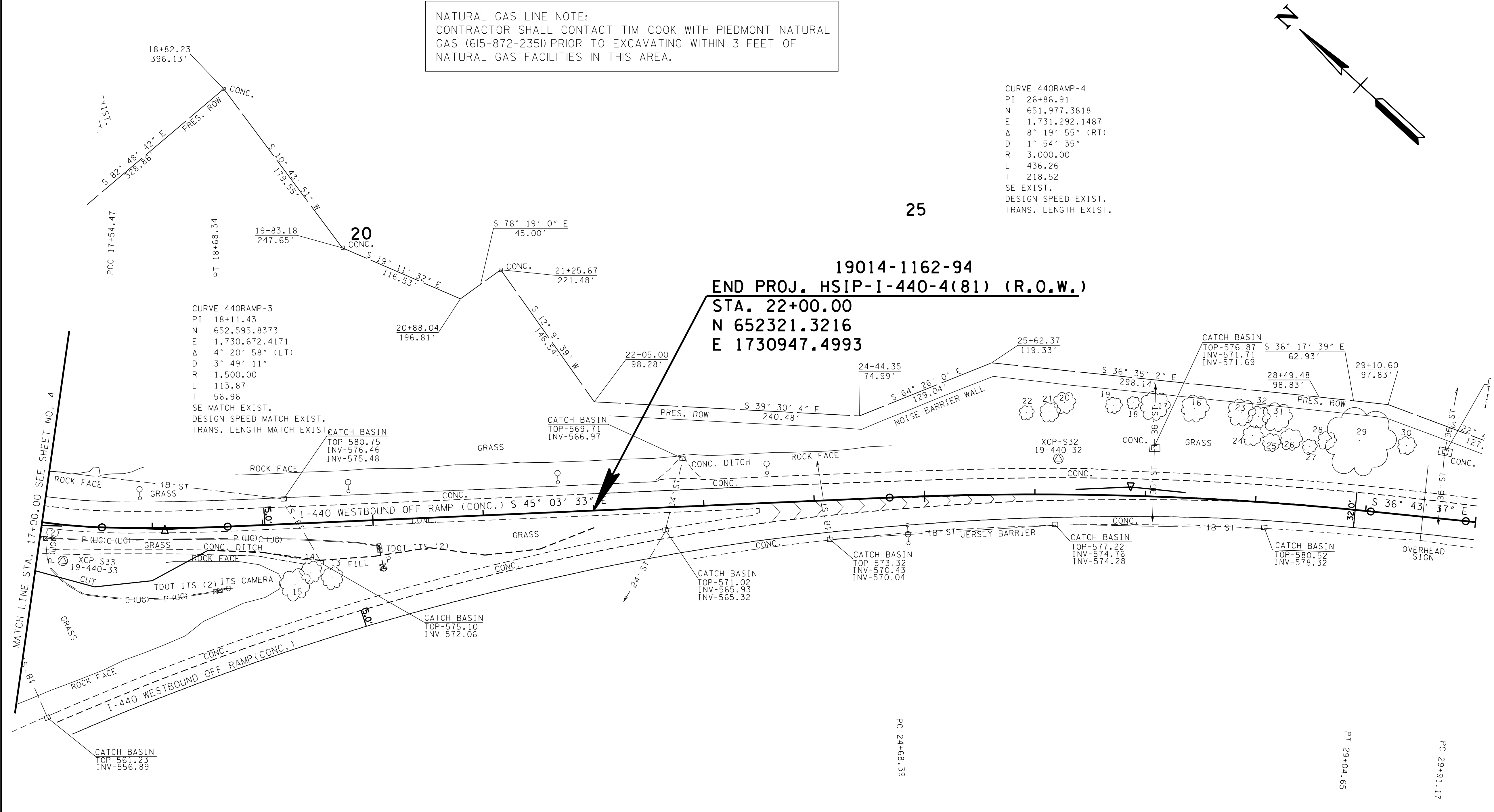
25

3

CURVE 440RAMP-4
 PI 26+86.91
 N 651,977.3818
 E 1,731,292.1487
 Δ 8° 19' 55" (RT)
 D 1' 54' 35"
 R 3,000.00
 L 436.26
 T 218.52
 SE EXIST.
 DESIGN SPEED EXIST.
 TRANS. LENGTH EXIST.

CURVE 440RAMP-3
 PI 18+11.43
 N 652,595.8373
 E 1,730,672.4171
 Δ 4° 20' 58" (LT)
 D 3' 49' 11"
 R 1,500.00
 L 113.87
 T 56.96
 SE MATCH EXIST.
 DESIGN SPEED MATCH EXIST.
 TRANS. LENGTH MATCH EXIST.

19014-1162-94
 END PROJ. HSIP-I-440-4(81) (R.O.W.)
 STA. 22+00.00
 N 652321.3216
 E 1730947.4993



**R.O.W.
 PLANS
 (UTILITIES ONLY)**

SEALED BY

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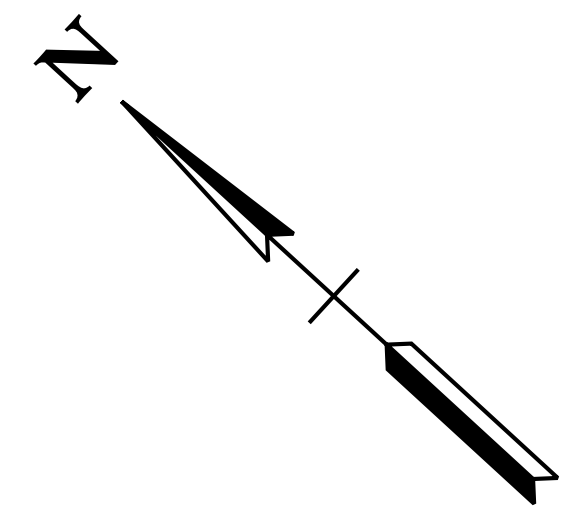
**STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION**

**PRESENT
 LAYOUT**

STA. 17+00 TO STA. 22+00
 SCALE: 1"=50'

8/3/2017 10:33:40 AM
 N:\12862 - TDOT Traffic\008 1440 at Hillsboro\ldgn\005.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-I-440-4(81)	5A

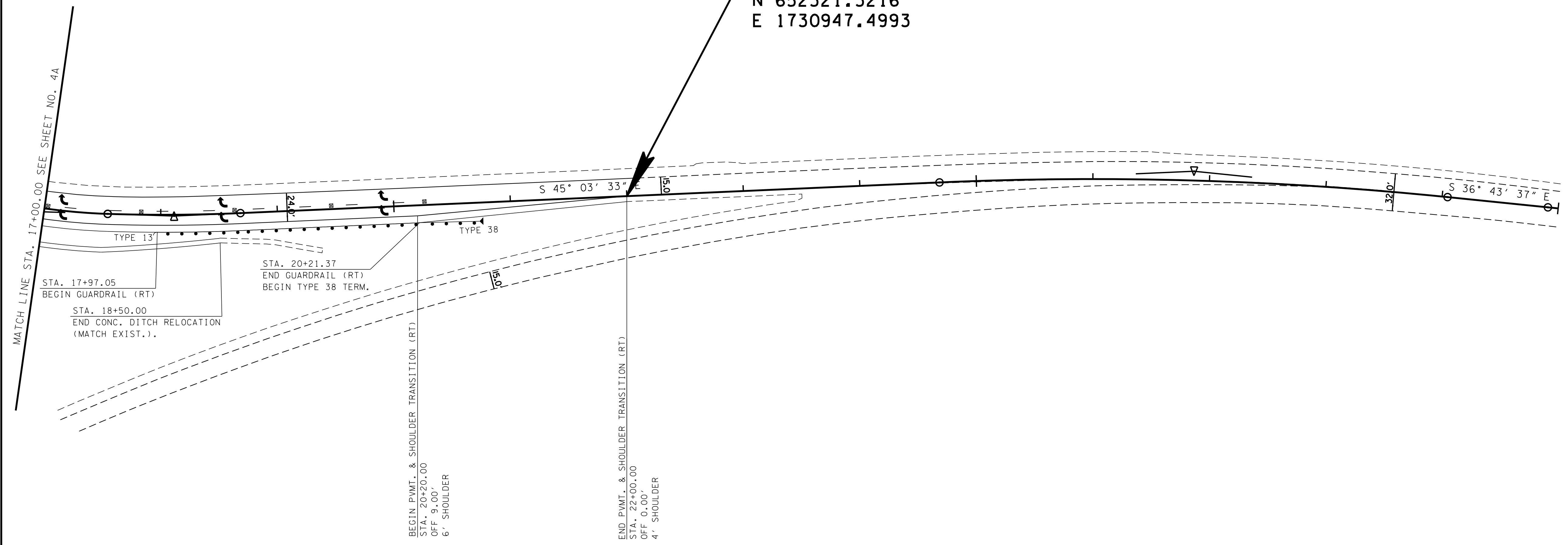


20

25

30

19014-1162-94
 END PROJ. HSIP-I-440-4(81) (R.O.W.)
 STA. 22+00.00
 N 652321.3216
 E 1730947.4993



**R.O.W.
 PLANS
 (UTILITIES ONLY)**

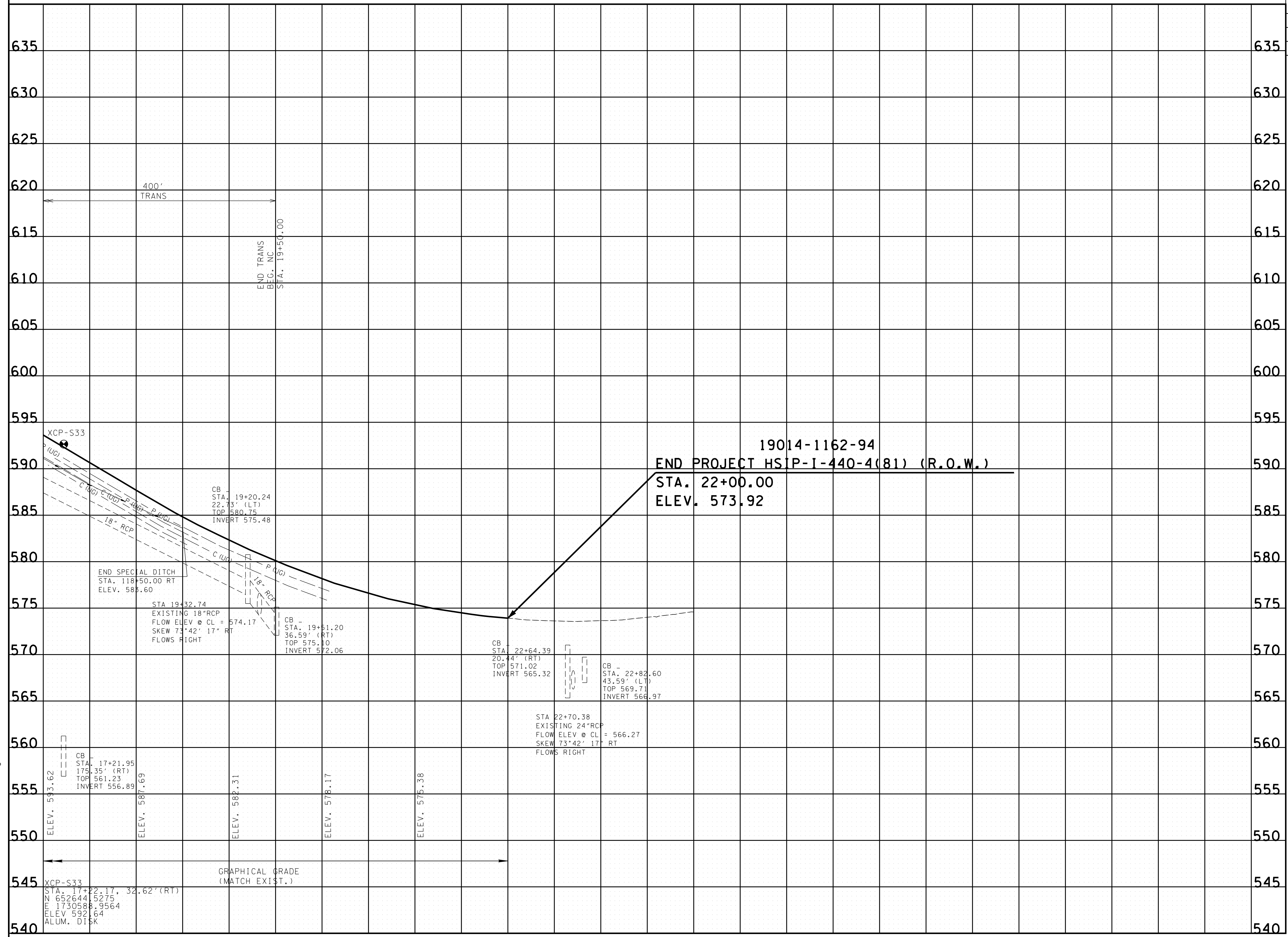
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**STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION**

**PROPOSED
 LAYOUT**
 STA. 17+00 TO STA. 22+00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSP-1-440-4(81)	5B



**R.O.W.
PLANS
(UTILITIES ONLY)**

SEALED BY

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**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

PROPOSED PROFILE

STA. 17+00 TO STA. 22+00
SCALE: 1"=50' HORIZ.
1"=5' VERT.

8/3/2017 10:33:41 AM
N:\112862 - TDOT Traffic\008 I440 at Hillsboro\cgm\05B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-1440-4(81)	6

EPSC NOTES

ENVIRONMENTAL

- (1) 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.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	300
209-08.07	ROCK CHECK DAM	EACH	1
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	2
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	2
740-11.04	TEMPORARY SEDIMENT TUBE (20 INCH)	L.F.	485

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
*SF*SF*SF*	SILT FENCE	EC-STR-3B
TUBETUBE**	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

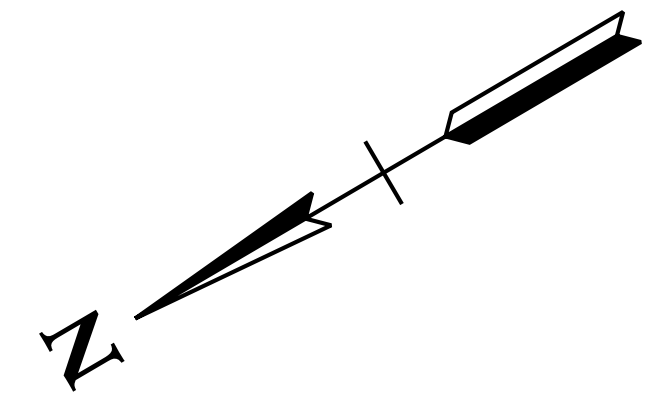
**R.O.W.
PLANS
(UTILITIES ONLY)**

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**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**EROSION
PREVENTION &
SEDIMENT CONTROL
(EPSC) NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-1-440-4(81)	7



19014-1162-94
 BEGIN PROJ. HSIP-I-440-4(81) (R.O.W.)
 STA. 13+43.35
 N 653022.4399
 E 1730517.6439

STA. 13+43.35 I-440 WESTBOUND OFFRAMP =
 STA. 104+20.13 HILLSBORO RD (21st AVE)
 N 653022.4399
 E 1730517.6439

LIMIT OF CONST.
 107+34.15

STA. 202+86.26 I-440 WB ON RAMP =
 STA. 105+81.88 HILLSBORO RD (21st AVE)
 N 653180.8638
 E 1730568.5260

STA. 7+61.22 I-440 WESTBOUND ON RAMP =
 STA. 102+56.24 HILLSBORO RD (21st AVE)
 N 652871.7088
 E 1730453.4764

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
*SF*SF*SF*	SILT FENCE	EC-STR-3B
TUBETUBE**	SEDIMENT TUBE	EC-STR-37
	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EC-STR-43
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

EXISTING CONTOURS SHOWN

STAGE 1

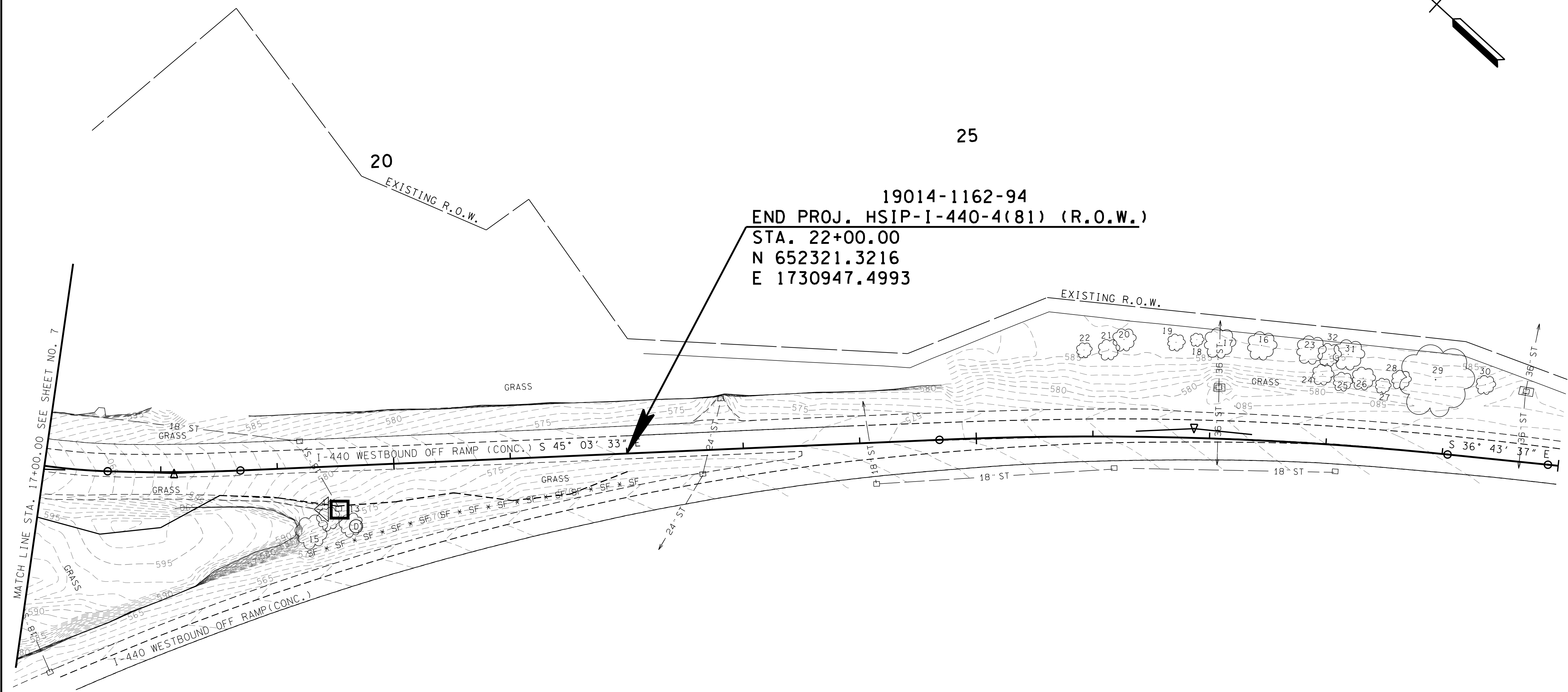
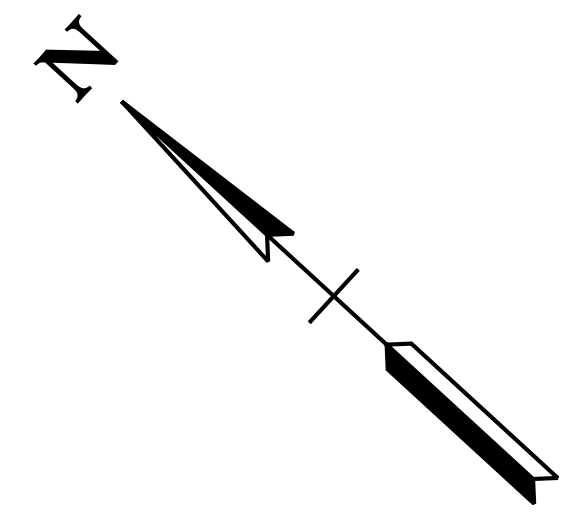
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STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS
 STA. 13+43 TO STA. 17+00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-1-440-4(81)	7A



19014-1162-94
 END PROJ. HSIP-1-440-4(81) (R.O.W.)
 STA. 22+00.00
 N 652321.3216
 E 1730947.4993

MATCH LINE STA. 17+00.00 SEE SHEET NO. 7

**R.O.W.
 PLANS
 (UTILITIES ONLY)**

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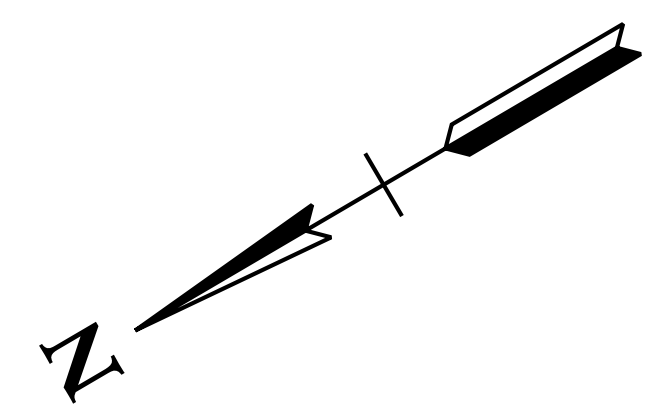
**STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION**
**EROSION
 PREVENTION &
 SEDIMENT CONTROL
 (EPSC) PLANS**
 STA. 17+00 TO STA. 22+00
 SCALE: 1"=50'

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
□ ③	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EC-STR-43
□ ④	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
◁	ROCK CHECK DAM (V-DITCH)	EC-STR-6

EXISTING CONTOURS SHOWN

STAGE 1

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-1-440-4(81)	8

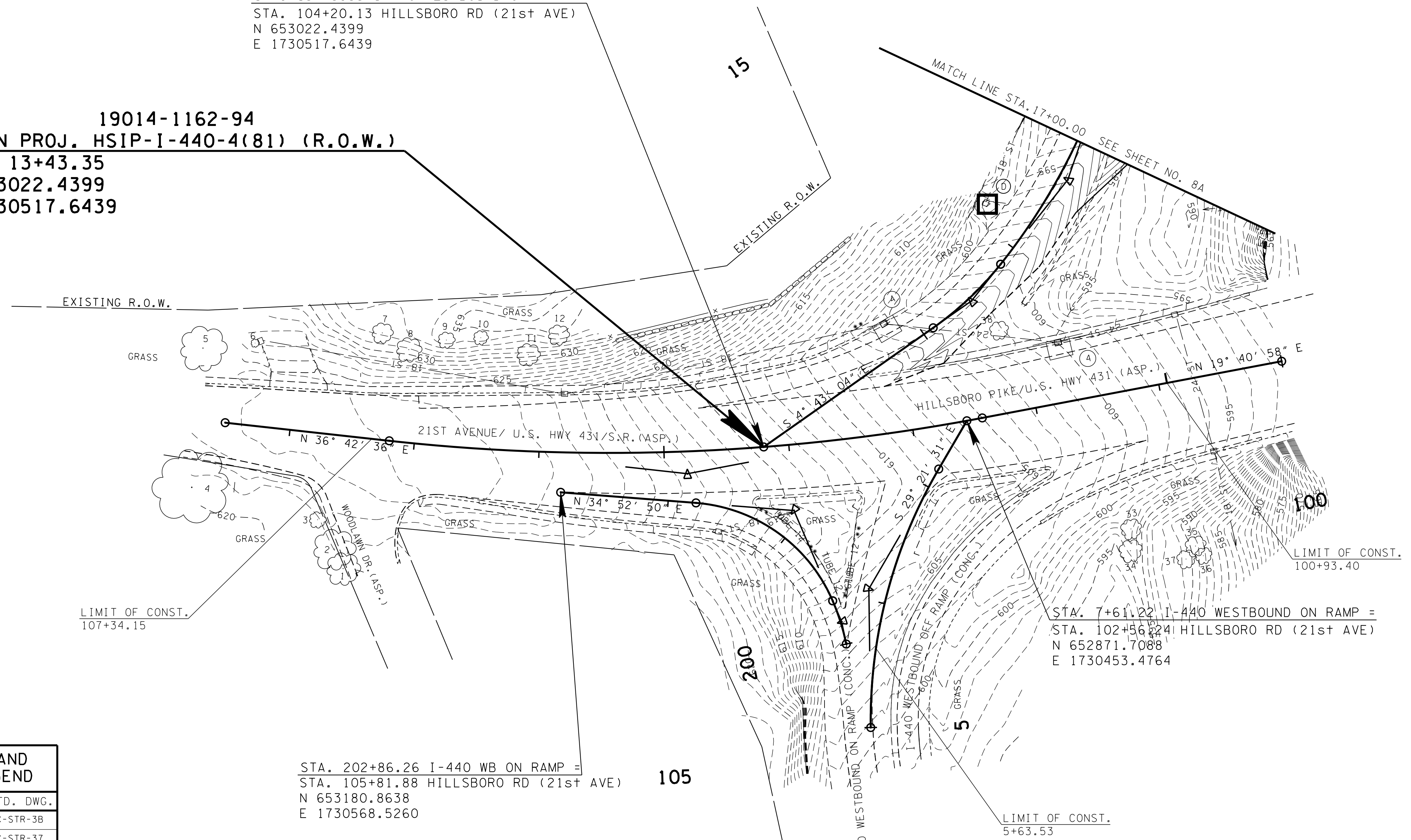


19014-1162-94
 BEGIN PROJ. HSIP-I-440-4(81) (R.O.W.)
 STA. 13+43.35
 N 653022.4399
 E 1730517.6439

STA. 13+43.35 I-440 WESTBOUND OFFRAMP =
 STA. 104+20.13 HILLSBORO RD (21st AVE)
 N 653022.4399
 E 1730517.6439

STA. 7+61.22 I-440 WESTBOUND ON RAMP =
 STA. 102+56.24 HILLSBORO RD (21st AVE)
 N 652871.7088
 E 1730453.4764

STA. 202+86.26 I-440 WB ON RAMP =
 STA. 105+81.88 HILLSBORO RD (21st AVE)
 N 653180.8638
 E 1730568.5260



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
*SF*SF*SF*	SILT FENCE	EC-STR-3B
TUBETUBE**	SEDIMENT TUBE	EC-STR-37
③	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EC-STR-43
④	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

R.O.W.
 PLANS
 (UTILITIES ONLY)

SEALED BY

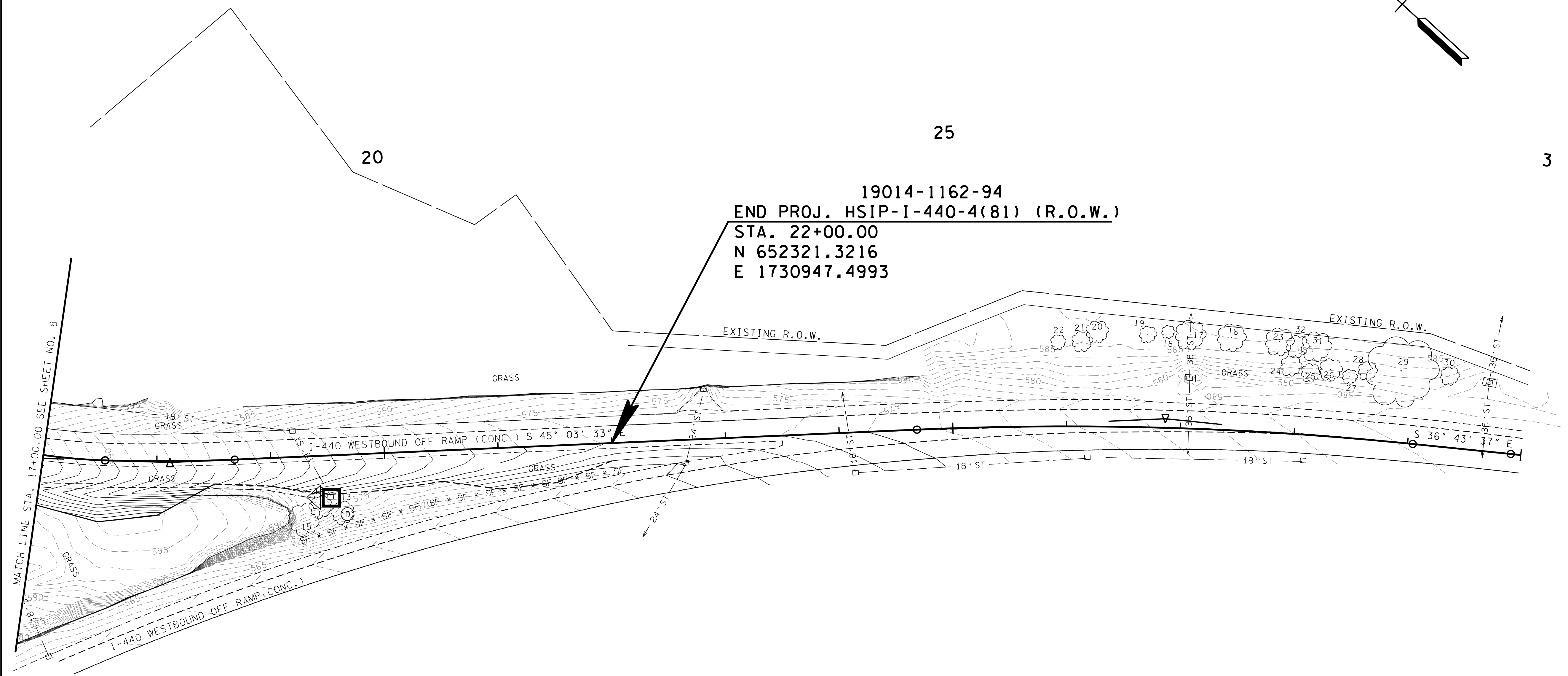
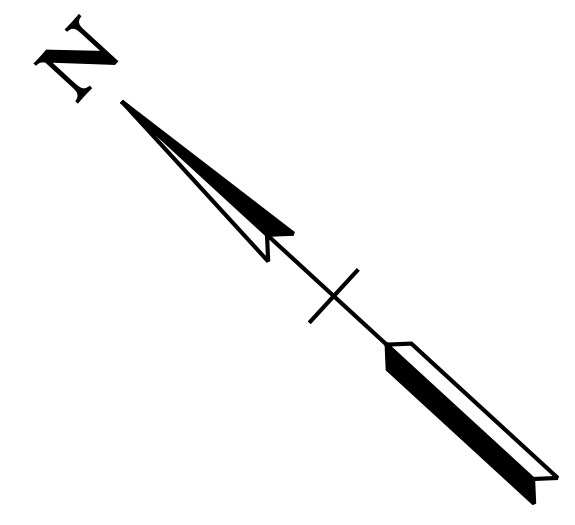
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 DEPARTMENT OF
 TRANSPORTATION
 EROSION
 PREVENTION &
 SEDIMENT CONTROL
 (EPSC) PLANS
 STA. 13+43 TO STA. 17+00
 SCALE: 1"=50'

PROPOSED CONTOURS SHOWN

STAGE 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-I-440-4(81)	8A



19014-1162-94
 END PROJ. HSIP-I-440-4(81) (R.O.W.)
 STA. 22+00.00
 N 652321.3216
 E 1730947.4993

**R.O.W.
 PLANS
 (UTILITIES ONLY)**

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**STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION**
**EROSION
 PREVENTION &
 SEDIMENT CONTROL
 (EPSC) PLANS**
 STA. 17+00 TO STA. 22+00
 SCALE: 1"=50'

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
□ ③	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EC-STR-43
□ ④	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
◁	ROCK CHECK DAM (V-DITCH)	EC-STR-6

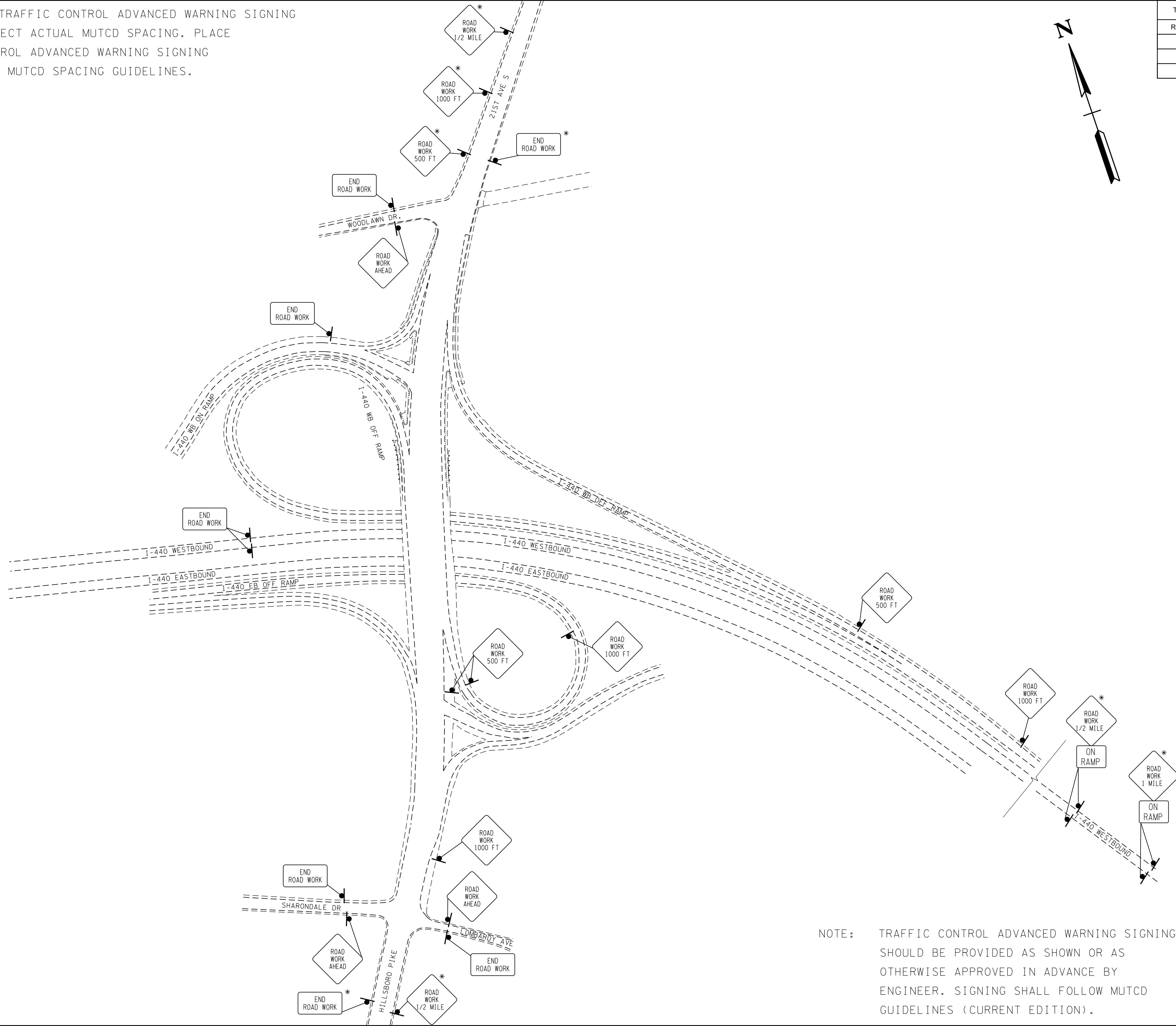
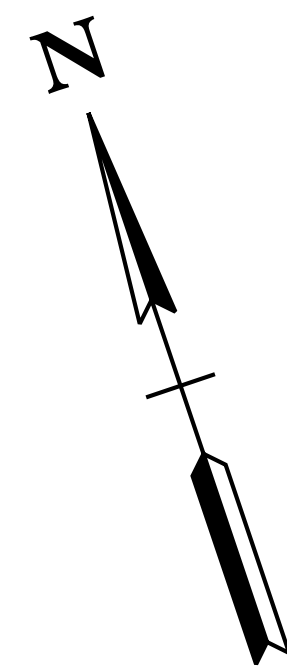
PROPOSED CONTOURS SHOWN

STAGE 2

8/3/2017 10:50:53 AM N:\12862 - TDOT Traffic\008 1440 at Hillsboro\ldgn\008A.sht

* NOTE: POSITION OF TRAFFIC CONTROL ADVANCED WARNING SIGNING MAY NOT REFLECT ACTUAL MUTCD SPACING. PLACE TRAFFIC CONTROL ADVANCED WARNING SIGNING ACCORDING TO MUTCD SPACING GUIDELINES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSP-1-440-4(81)	9



**R.O.W.
PLANS
(UTILITIES ONLY)**

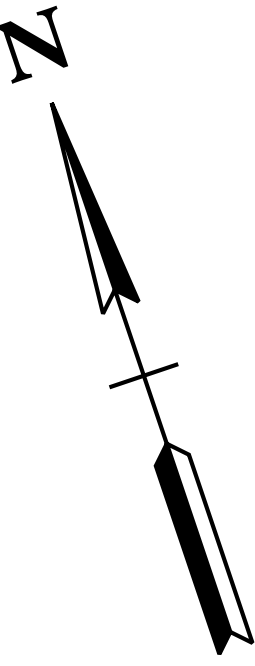
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**TRAFFIC
CONTROL
PLANS**

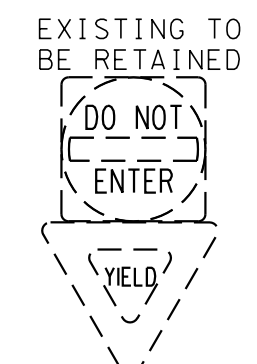
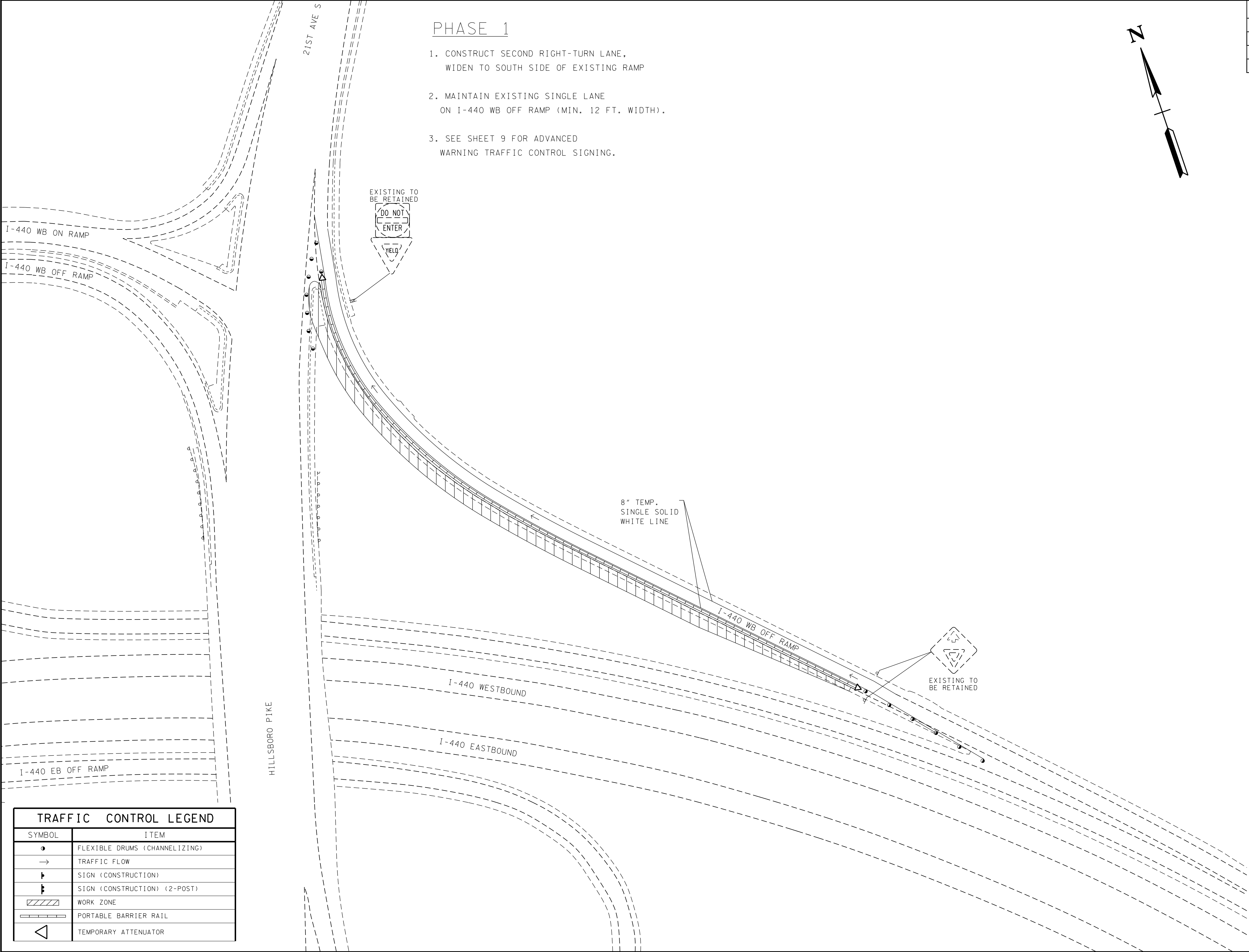
NOTE: TRAFFIC CONTROL ADVANCED WARNING SIGNING SHOULD BE PROVIDED AS SHOWN OR AS OTHERWISE APPROVED IN ADVANCE BY ENGINEER. SIGNING SHALL FOLLOW MUTCD GUIDELINES (CURRENT EDITION).

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSP-1440-4(81)	10

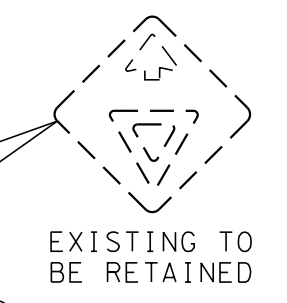


PHASE 1

1. CONSTRUCT SECOND RIGHT-TURN LANE, WIDEN TO SOUTH SIDE OF EXISTING RAMP
2. MAINTAIN EXISTING SINGLE LANE ON I-440 WB OFF RAMP (MIN. 12 FT. WIDTH).
3. SEE SHEET 9 FOR ADVANCED WARNING TRAFFIC CONTROL SIGNING.



8" TEMP. SINGLE SOLID WHITE LINE



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
●	FLEXIBLE DRUMS (CHANNELIZING)
→	TRAFFIC FLOW
⊢	SIGN (CONSTRUCTION)
⊢⊢	SIGN (CONSTRUCTION) (2-POST)
▨	WORK ZONE
▬	PORTABLE BARRIER RAIL
◁	TEMPORARY ATTENUATOR

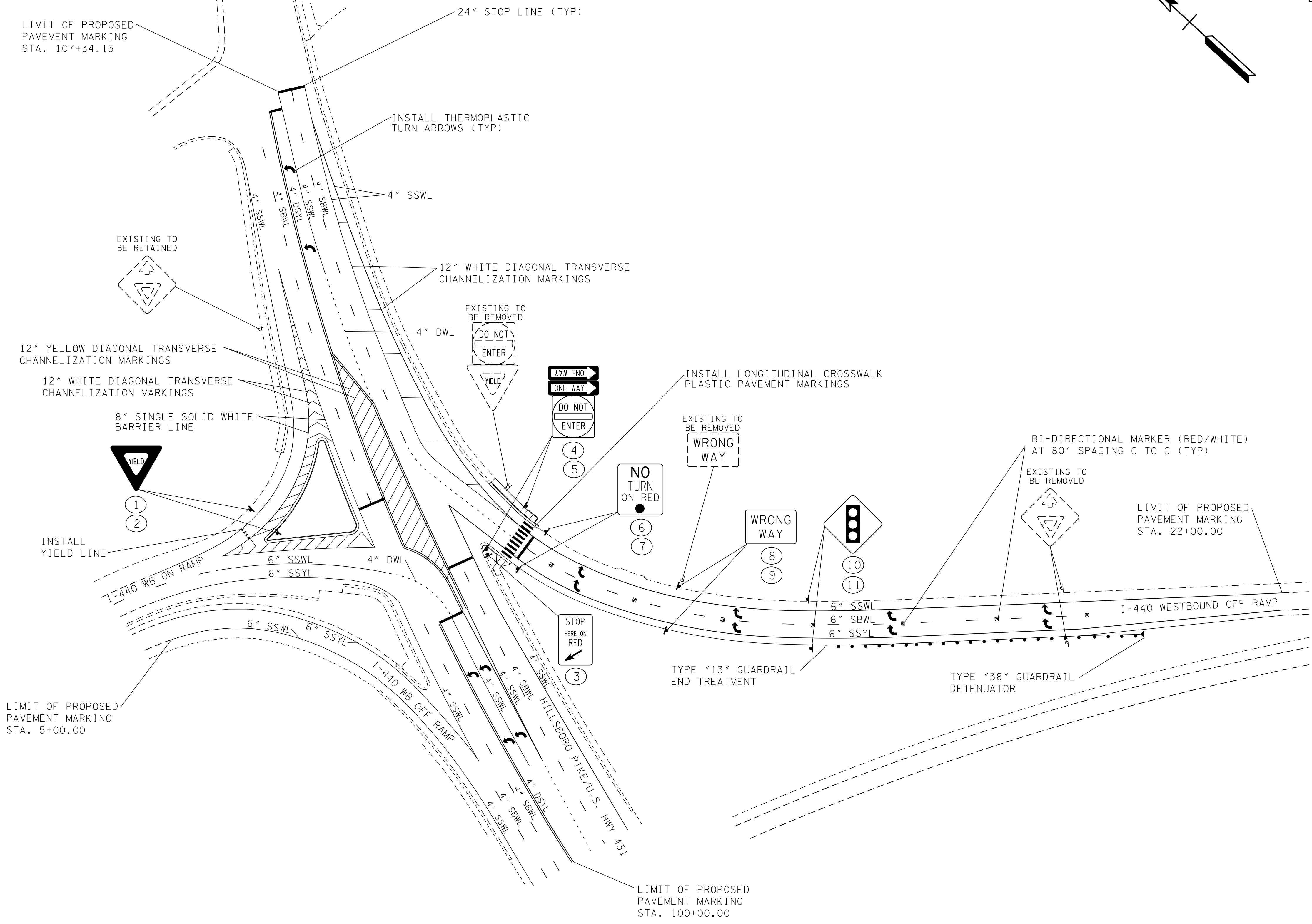
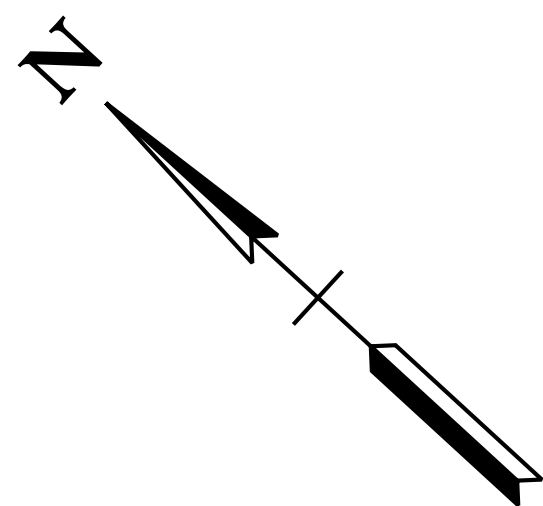
R.O.W. PLANS
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TRAFFIC CONTROL PLANS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSP-1440-4(81)	11



**R.O.W.
PLANS
(UTILITIES ONLY)**

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DEPARTMENT OF
TRANSPORTATION**

**SIGNING AND
PAVEMENT
MARKING
PLANS**

SCALE: 1"=50'

PAVEMENT MARKING LEGEND:

SSWL:	SINGLE SOLID WHITE
SSYL:	SINGLE SOLID YELLOW EDGELINE
SBWL:	SINGLE BROKEN WHITE LINE
SSWL:	SINGLE SOLID WHITE LANE LINE
DWL:	DOTTED WHITE LINE (2'LINE 4' SPACE)
DSYL:	DOUBLE SOLID YELLOW LINE

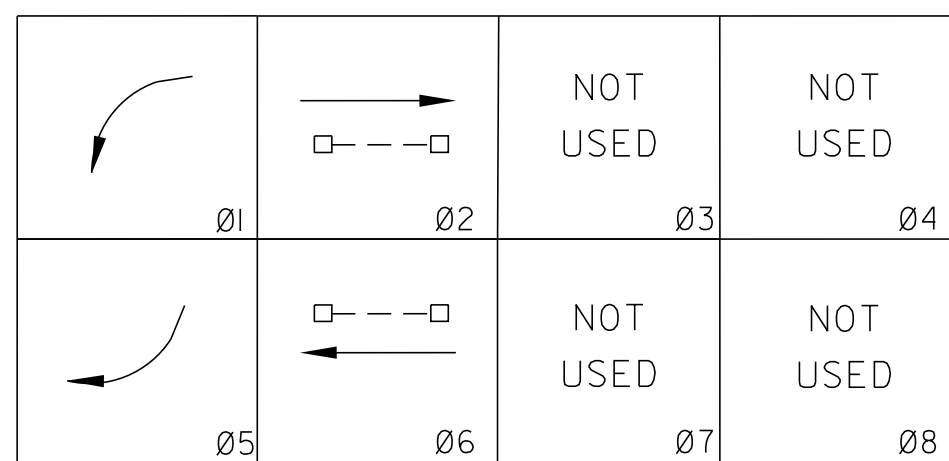
NOTE:

- "WRONG WAY," "DO NOT ENTER," AND "YIELD" SIGN ASSEMBLIES SHALL INCLUDE RED REFLECTIVE STRIP ON SIGN POSTS.
- NEW SKIP LANE LINE MARKINGS ON I-440 RAMP SHALL INCLUDE SILHOUTTE, BLACK OUTLINE.

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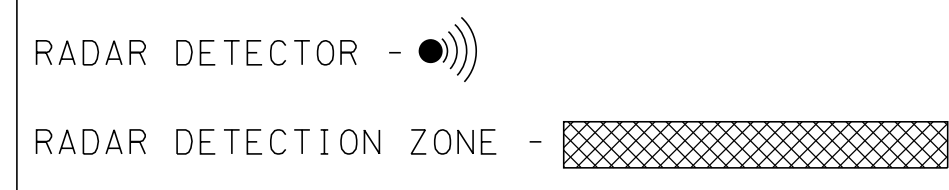
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSP-1440-4(81)	12

SIGNAL PHASING DIAGRAM

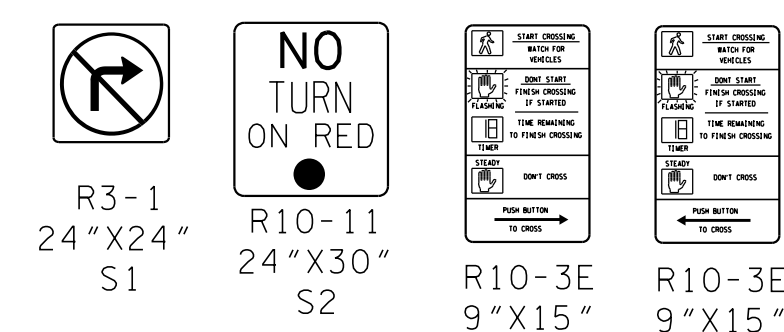


-PROT LEFT-TURN: 01
 -MIN RECALL: 02,06
 -FLASHING OPERATION: YELLOW - 02,06; RED - 01,05

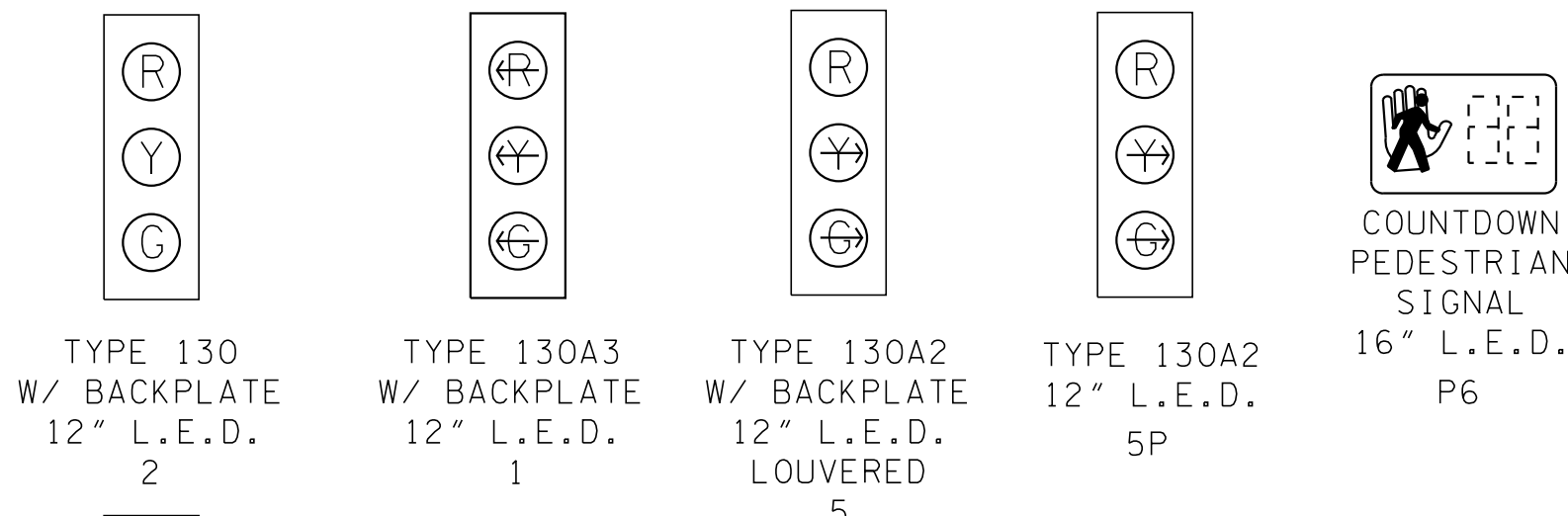
LEGEND:



SIGNS



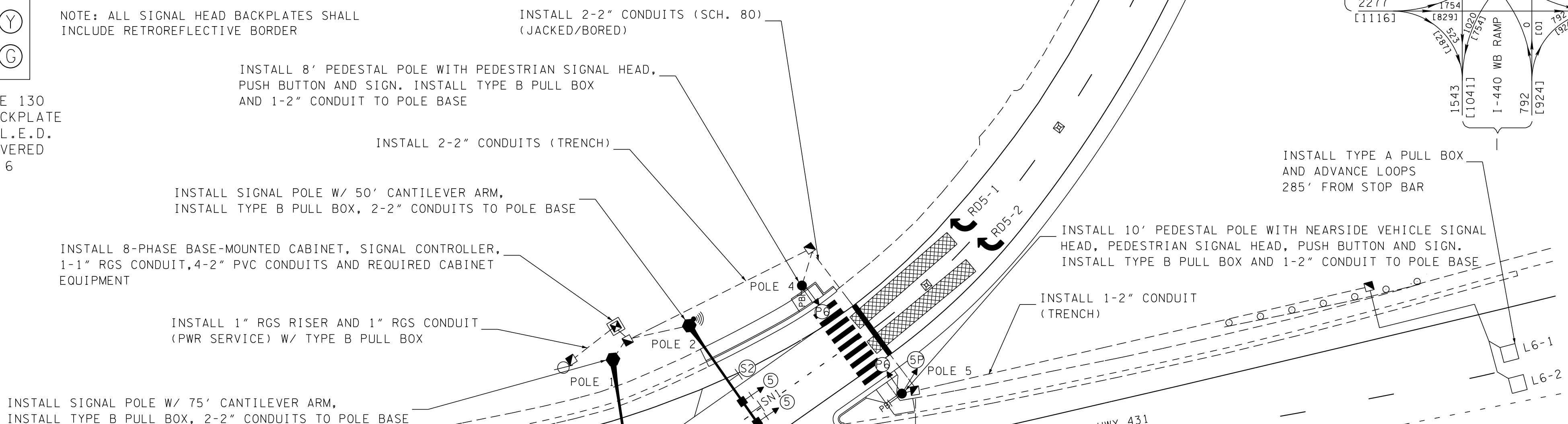
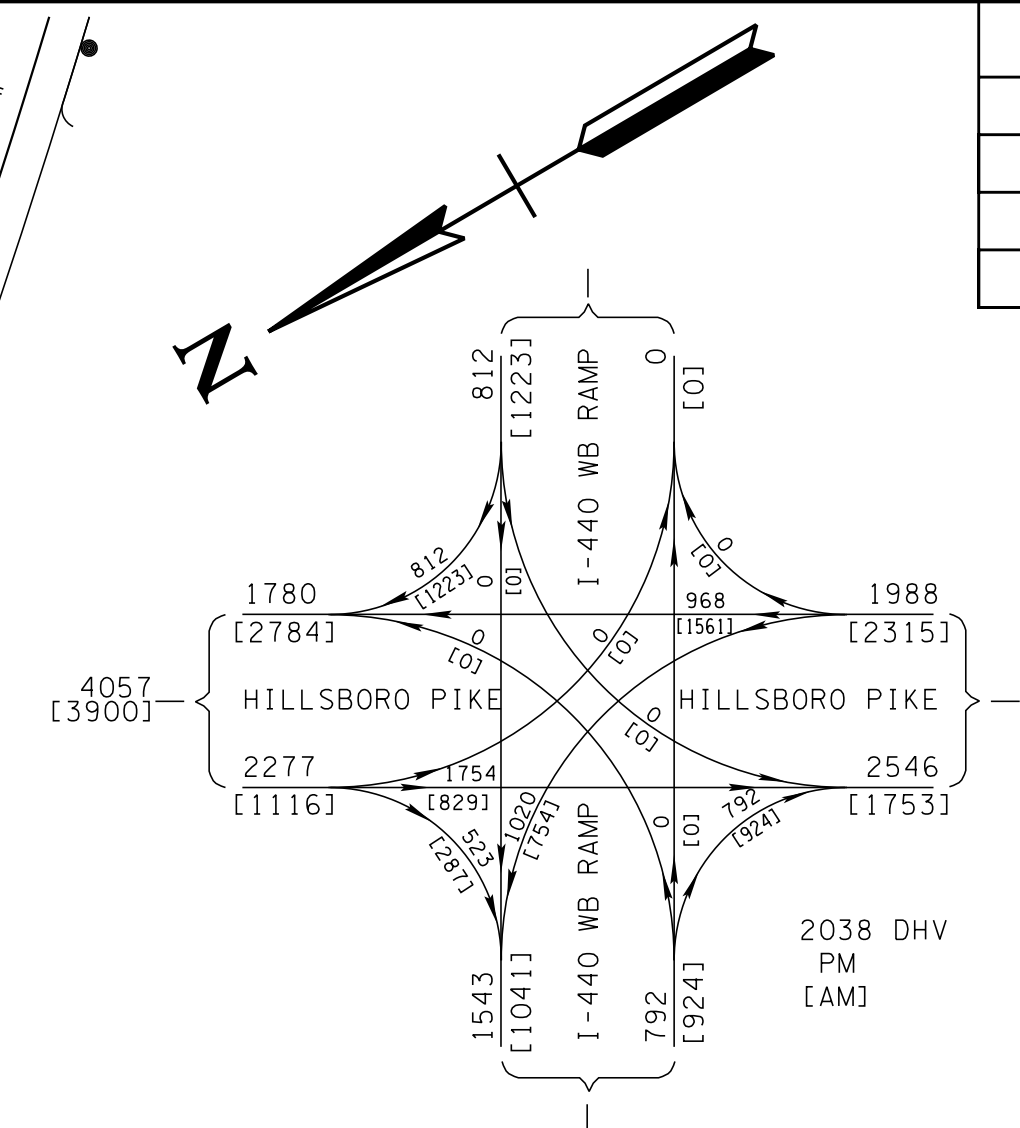
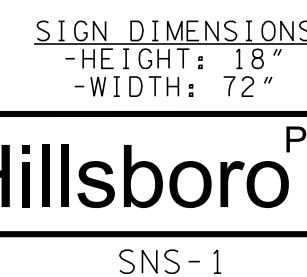
SIGNAL HEADS



NOTE: ALL SIGNAL HEAD BACKPLATES SHALL INCLUDE RETROREFLECTIVE BORDER

OVERHEAD STREET NAME SIGN

COLOR: WHITE ON GREEN BACKGROUND
 SHEETING: RETRO-REFLECTIVE
 BORDER WIDTH: 1"
 CORNER RADIUS: 2.5"
 FONT: SERIES "D" LETTERING STYLE (8" UPPER CASE, 6" LOWER CASE)
 SUPPLEMENTARY LETTERING: (6" UPPER CASE, 4" LOWER CASE)



INSTALL 8' PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND SIGN. INSTALL TYPE B PULL BOX AND 1-2" CONDUIT TO POLE BASE

INSTALL 1" RGS RISER AND 1" RGS CONDUIT (PWR SERVICE) W/ TYPE B PULL BOX

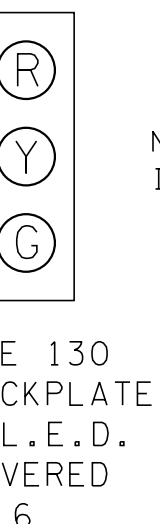
INSTALL 8-PHASE BASE-MOUNTED CABINET, SIGNAL CONTROLLER, 1-1" RGS CONDUIT, 4-2" PVC CONDUITS AND REQUIRED CABINET EQUIPMENT

INSTALL SIGNAL POLE W/ 50' CANTILEVER ARM, INSTALL TYPE B PULL BOX, 2-2" CONDUITS TO POLE BASE

INSTALL 2-2" CONDUITS (TRENCH)

INSTALL 8' PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND SIGN. INSTALL TYPE B PULL BOX AND 1-2" CONDUIT TO POLE BASE

INSTALL 2-2" CONDUITS (SCH. 80) (JACKED/BORED)



21ST AVE/ U.S. HWY 431 / S.R.106

HILLSBORO PIKE/U.S. HWY 431

PROPOSED RAMPS AND SIDEWALK IN ISLAND SHOWN FOR DEMONSTRATION PURPOSES ONLY (SEE NOTE #3 THIS SHEET)

EXISTING RAMP SHOWN FOR DEMONSTRATION PURPOSES ONLY (SEE NOTE #3 THIS SHEET)

INSTALL 8' PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND SIGN. INSTALL TYPE B PULL BOX AND 1-2" CONDUIT TO POLE BASE

EXISTING RAMP SHOWN FOR DEMONSTRATION PURPOSES ONLY (SEE NOTE #3 THIS SHEET)

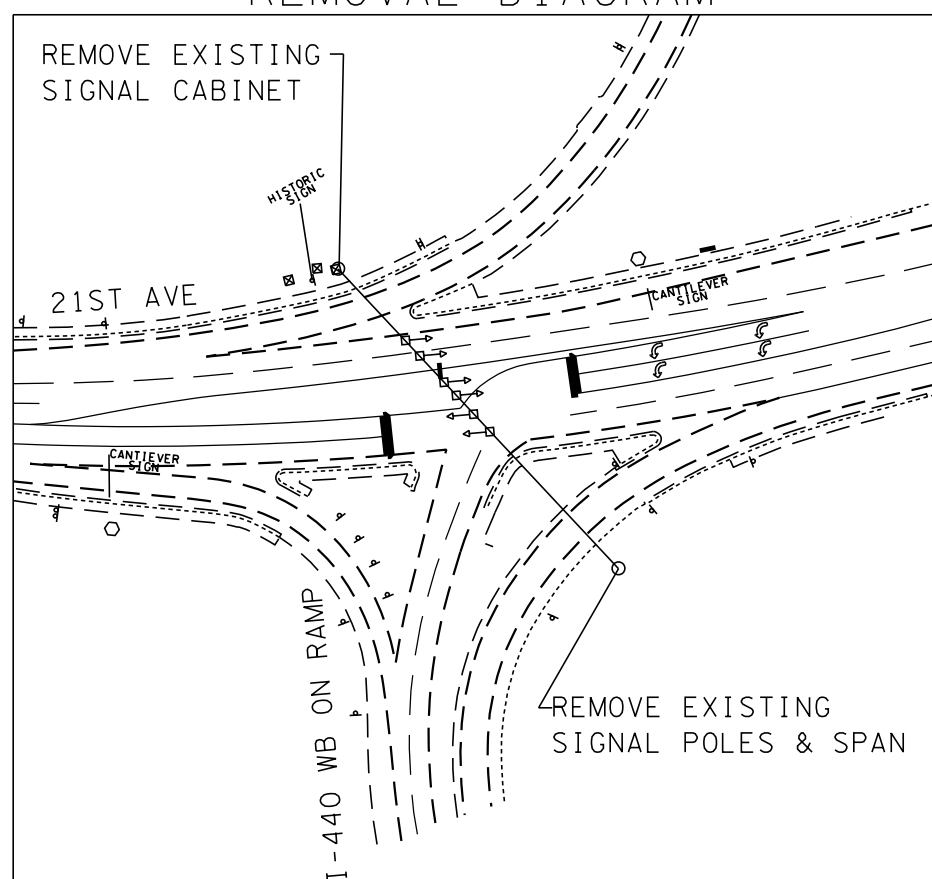
INSTALL 2-2" CONDUITS (SCH. 80) (JACKED/BORED)

INSTALL SIGNAL POLE W/ 65' CANTILEVER ARM, INSTALL TYPE B PULL BOX, 2-2" CONDUITS TO POLE BASE

INSTALL 8' PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND SIGN. INSTALL 1-2" CONDUIT TO POLE BASE

INSTALL 2-2" CONDUITS (JACKED/BORED)

REMOVAL DIAGRAM



NOTES:

- CABINET FOUNDATION SHALL INCLUDE INSTALLATION OF TWO (2) - 2" SPARE CONDUIT STUBS FOR FUTURE.
- CONTRACTOR TO INSTALL NEW ELECTRICAL SERVICE FROM EXISTING UTILITY POLE IN NE CORNER. INSTALL NEW POWER SERVICE CABLE AND 1" RGS CONDUIT TO CABINET AS REQUIRED. INSTALL RISER AT UTILITY POLE WITH COST INCLUDED IN PAY ITEM FOR POWER SERVICE. POWER SERVICE SHALL MEET UTILITY OWNER SPECIFICATIONS. COORDINATE WITH PROJECT ENGINEER AND UTILITY OWNER AS REQUIRED.
- EXISTING RAMPS ON THE WEST SIDE OF HILLSBORO RD INSTALLED BY NASHVILLE MPW PROJECT AFTER TDOT SURVEY WAS PERFORMED. RAMPS SHOWN HAVE NOT BEEN PLACED VIA SURVEY BUT FROM FIELD VISITS AND SITE PICTURES. PROPOSED RAMPS AND SIDEWALK SHOWN TO DEMONSTRATE LOCATION OF PEDESTRIAN SIGNAL EQUIPMENT. CONTRACTOR HAS FINAL RESPONSIBILITY TO INSTALL PROPOSED PEDESTRIAN SIGNAL EQUIPMENT PER STANDARD DRAWINGS, MUTCD AND FINAL CURB RAMP DESIGN.

SIGNAL SUPPORT POLE DATA AND MAST ARM DETAILS														
POLE NO.	STATION	OFFSET	NORTHING	EASTING	ARM	ARM LENGTH	SH-1	SH-2	RD-1	SNS-1	S1	SH-3	SH-4	GROUND EL. @ POLE
P1	103+73.90	85.2 R	652945.4550	1730575.6013	A1	75'	54'	65'		40'	47'			611.50
P2	103+41.10	94.8 R	652913.2459	1730571.9042	A2	50'	34'	44'	0'		25'			609.00
P3	102+82.00	56.9 L	652916.2732	1730409.4420	A3	65'	22'	32'	0'			44'	56'	608.15
P4	102+92.50	104.0 R	652867.6272	1730563.2035	PEDESTAL	N/A								604.50
P5	102+59.60	56.2 R	652855.3747	1730507.3410	PEDESTAL	N/A								604.67
P6	102+96.20	70.7 L	652935.0592	1730401.9028	PEDESTAL	N/A								608.33
P7	103+55.80	53.5 L	652985.5123	1730441.6402	PEDESTAL	N/A								612.25

*FINAL POLE POSITIONS SHALL BE STAKED AND FIELD APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.

LEGEND:
 S#: SIGN
 SNS#: STREET NAME SIGN
 SH#: SIGNAL HEAD
 RD#: VEHICLE DETECTOR (RADAR)
 PRE: PRE-EMPTION

R.O.W. PLANS (UTILITIES ONLY)

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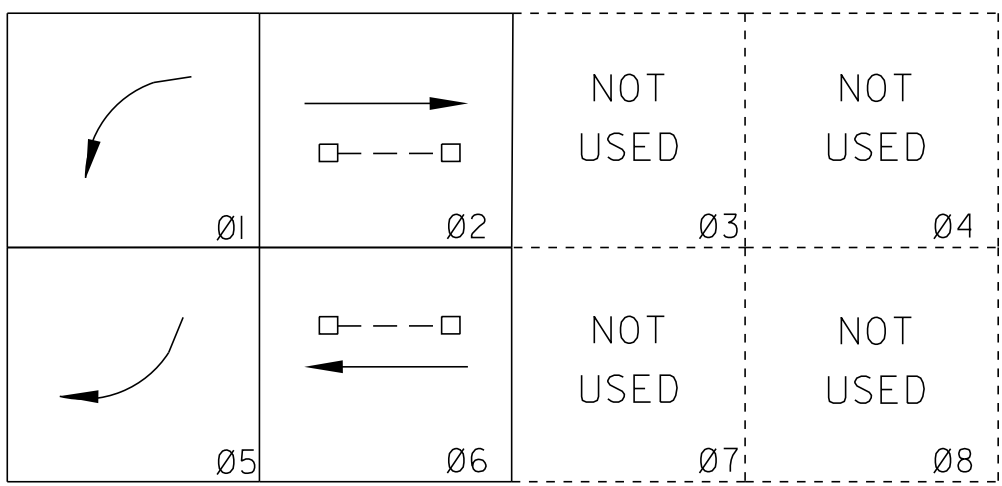
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

SIGNAL LAYOUT

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSP1-1440-4(81)	12A

SIGNAL PHASING DIAGRAM



EIGHT PHASE SEQUENCING

□ ACTIVE PHASE □ INACTIVE PHASE (NOT USED)

- PROT LEFT-TURN: 01
- MIN RECALL: 02,06
- FLASHING OPERATION: YELLOW - 02,06; RED - 01,05

CONTROLLER PHASE RING SEQUENCE												
PHASE												
RING 1	1	2	3	4	9	10	13	14				
RING 2	5	6	7	8	11	12	15	16				

PHASE IN USE & EXCLUSIVE PEDS												
PHASE	1	2	3	4	5	6	7	8	9	10	11	12
PH. IN USE	X	X			X	X						
EXCL. PED												

CONTROLLER TIMING PLANS												
PHASE	1	2	3	4	5	6	7	8	9	10	11	12
MIN GREEN	6	20			7	20						
BK MIN GRN												
CS MGRN												
DELAY GRN												
WALK		7				7						
WALK 2												
WALK MAX												
PED CLR		13				9						
PED CLR 2												
PED CLR MX												
PED CO												
VEH EXT	2.0	6.0			3.0	6.0						
VEH EXT2												
MAX 1	30	60			45	60						
MAX 2												
MAX 3												
DYM MAX												
DYM STP												
YELLOW	3.5	4.5			3.5	4.5						
RED CLR	2.5	2.5			2.5	2.5						

START UP / FLASH DATA												
START UP - PHASE	1	2	3	4	5	6	7	8	9	10	11	12
START UP		W				W						
OVERLAPS												
FLASH->MON	Y						7					0
PWR START SEQ	1						MUTCD N				MUTCD Y->G N	
FLASH - PHASE	1	2	3	4	5	6	7	8	9	10	11	12
FLASH - ENTRY	X				X							
FLASH - EXIT		X				X						
OVERLAP EXIT												
FLASH->MON	Y						EXIT FLASH W				MIN FLASH 8	
MINIMUM RECALL	N										CYCLE THRU PHASES N	

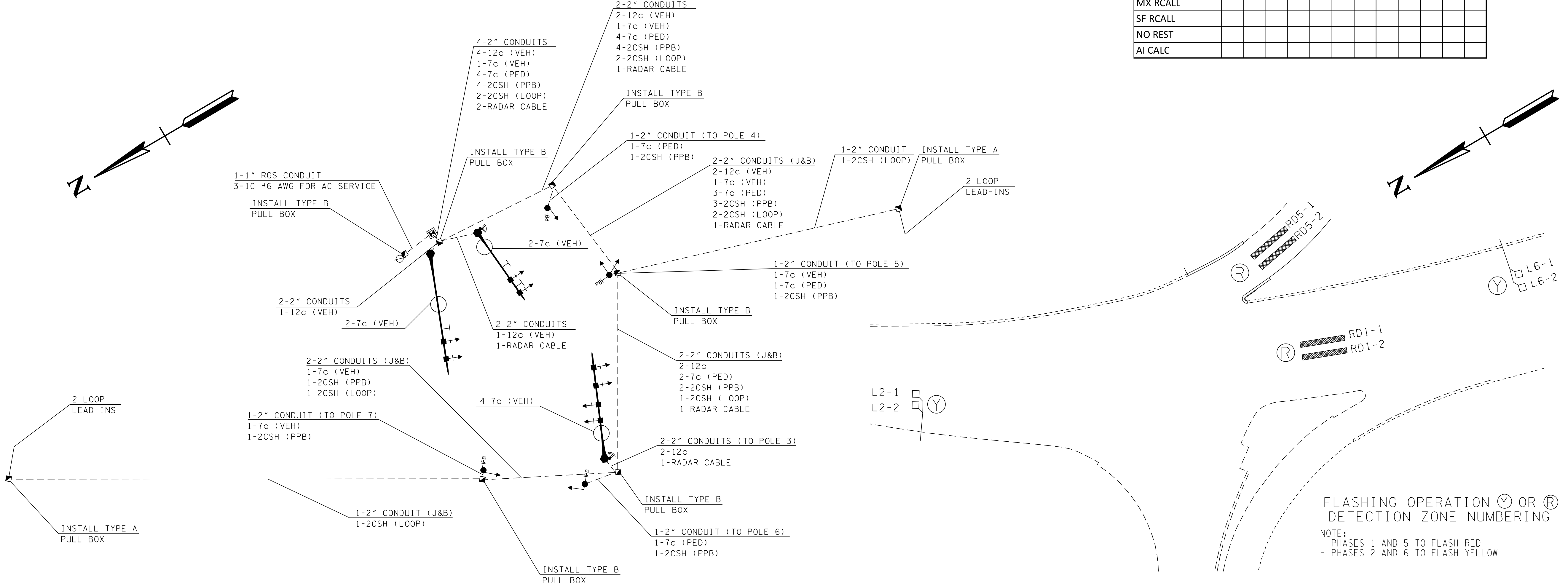
CONTROLLER OPTIONS												
PHASE	1	2	3	4	5	6	7	8	9	10	11	12
FLASHING GRN PH												
GUAR PASSAGE												
NON-ACT I												
NON-ACT II												
DUAL ENTRY												
COND. SERVICE												
COND. RESERVICE												
PED RESERVICE												
REST IN WALK		X				X						
FLASH WALK												
PED CLR > YEL.												
PED CLR > RED												
IGRN + VEH EXT												

PHASE DETECTOR OPTIONS												
PHASE	1	2	3	4	5	6	7	8	9	10	11	12
LOCK DET	X				X							
VE RCALL		X				X						
PD RCALL												
MX RCALL												
SF RCALL												
NO REST												
AI CALC												

LOOP AND DETECTOR ASSIGNMENTS

DETECTOR CHANNEL	ASSOCIATED PHASE	MODE	TIMING		DELAY INHIBIT ON GREEN	LOOP NO./ZONE	SIZE	TURNS	COMMENTS
			EXTEND	DELAY					
1	1	PRES				RD1-1	6' x 50'		
1	1	PRES				RD1-2	6' x 50'		
2	2	PULSE				L2-1	6' x 6'	3	
2	2	PULSE				L2-2	6' x 6'	3	
3	5	PRES				RD5-1	6' x 50'		
3	5	PRES				RD5-2	6' x 50'		
4	6	PULSE				L6-1	6' x 6'	3	
4	6	PULSE				L6-2	6' x 6'	3	

WIRING DIAGRAM



R.O.W. PLANS (UTILITIES ONLY)

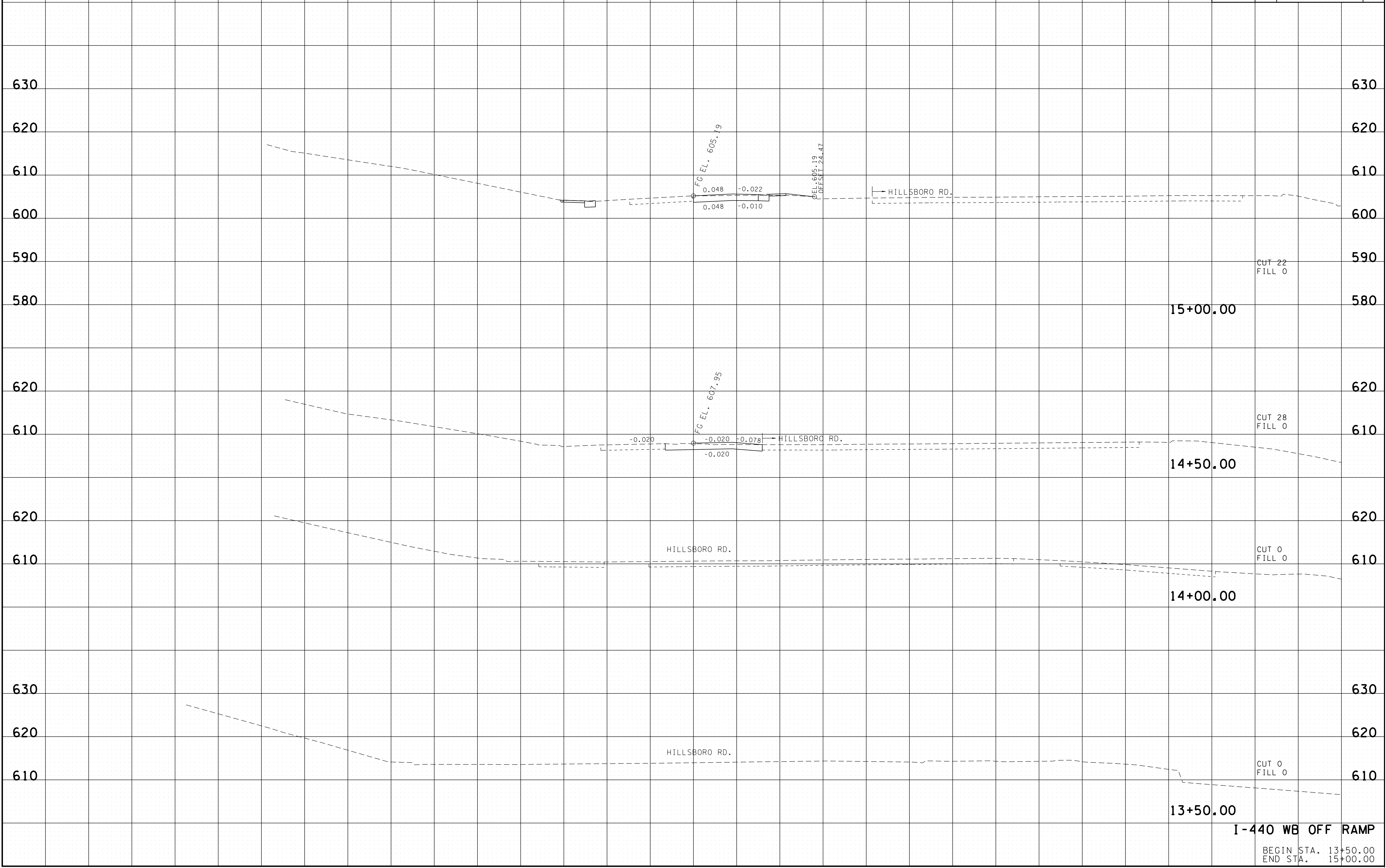
SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL DETAILS

FLASHING OPERATION (Y) OR (R) DETECTION ZONE NUMBERING

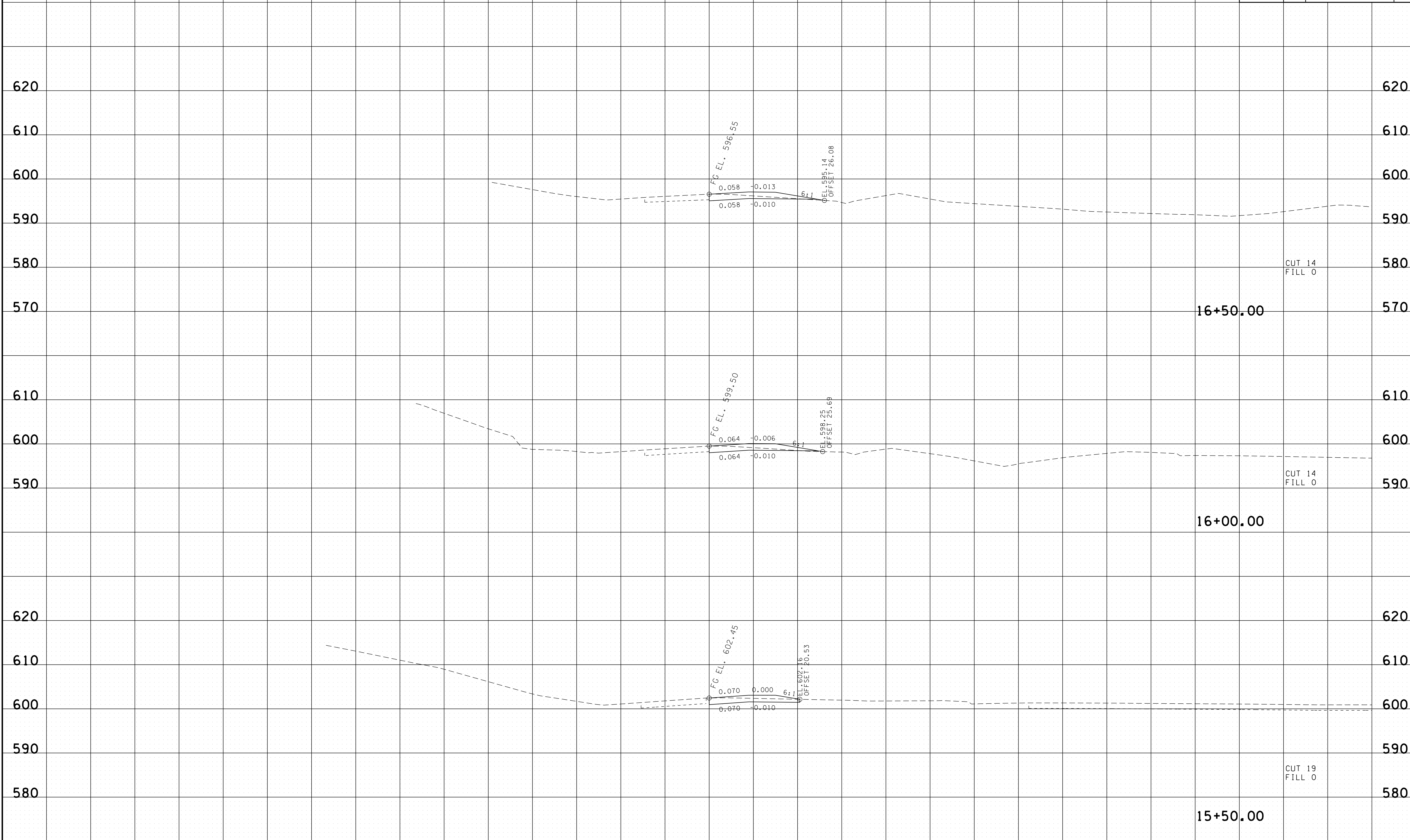
- NOTE: - PHASES 1 AND 5 TO FLASH RED
- PHASES 2 AND 6 TO FLASH YELLOW



8/3/2017 10:38:36 AM N:\2862 - TDOT Traffic\08 1440 of Hillsboro\ dgn\013-018.sht

I-440 WB OFF RAMP
 BEGIN STA. 13+50.00
 END STA. 15+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-1440-4(81)	14

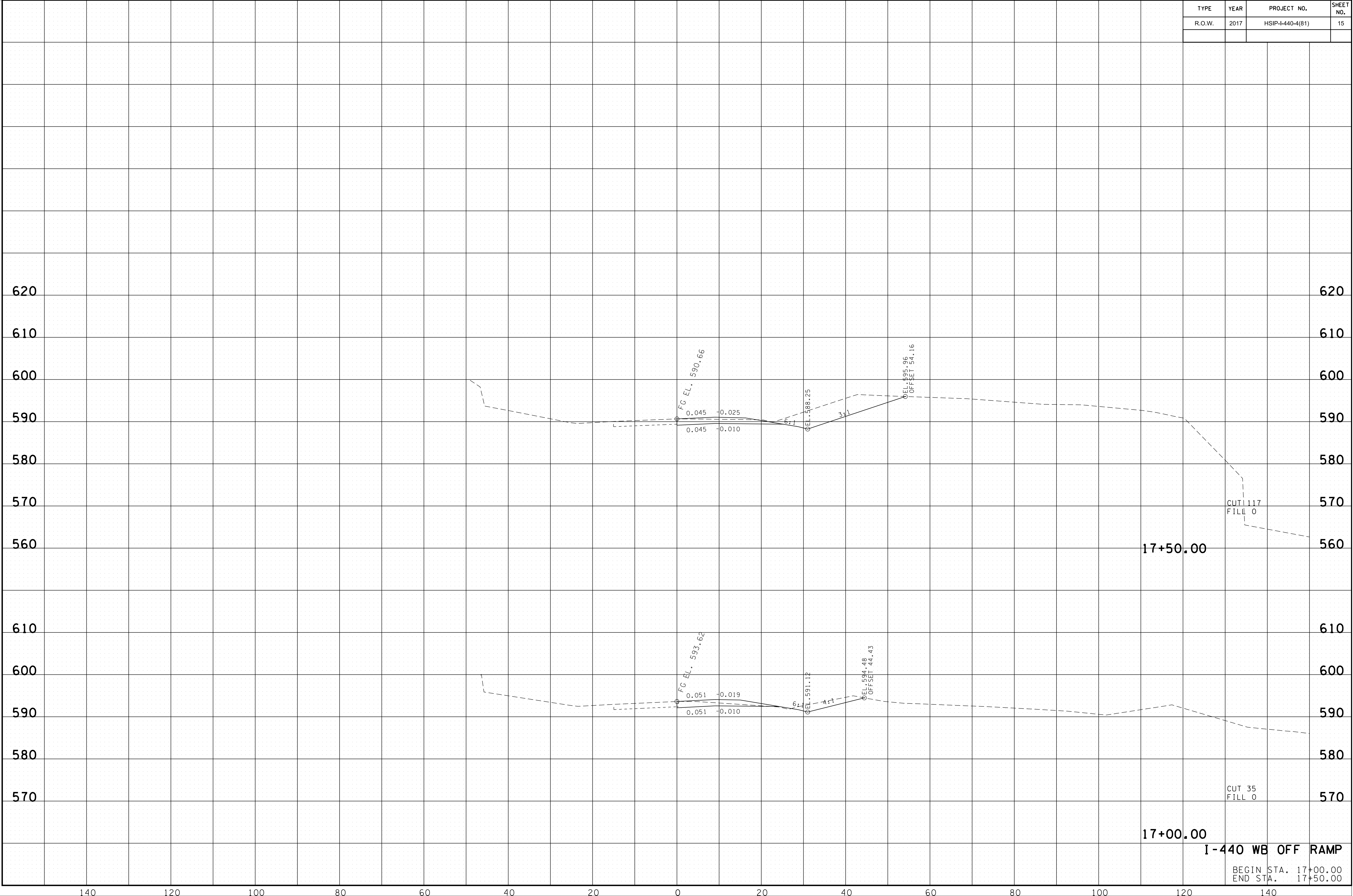


I-440 WB OFF RAMP

BEGIN STA. 15+50.00
END STA. 16+50.00

8/3/2017 10:38:37 AM N:\2862 - TDOT Traffic\008 1440 at Hillisboro\ dgn\013-018.sht

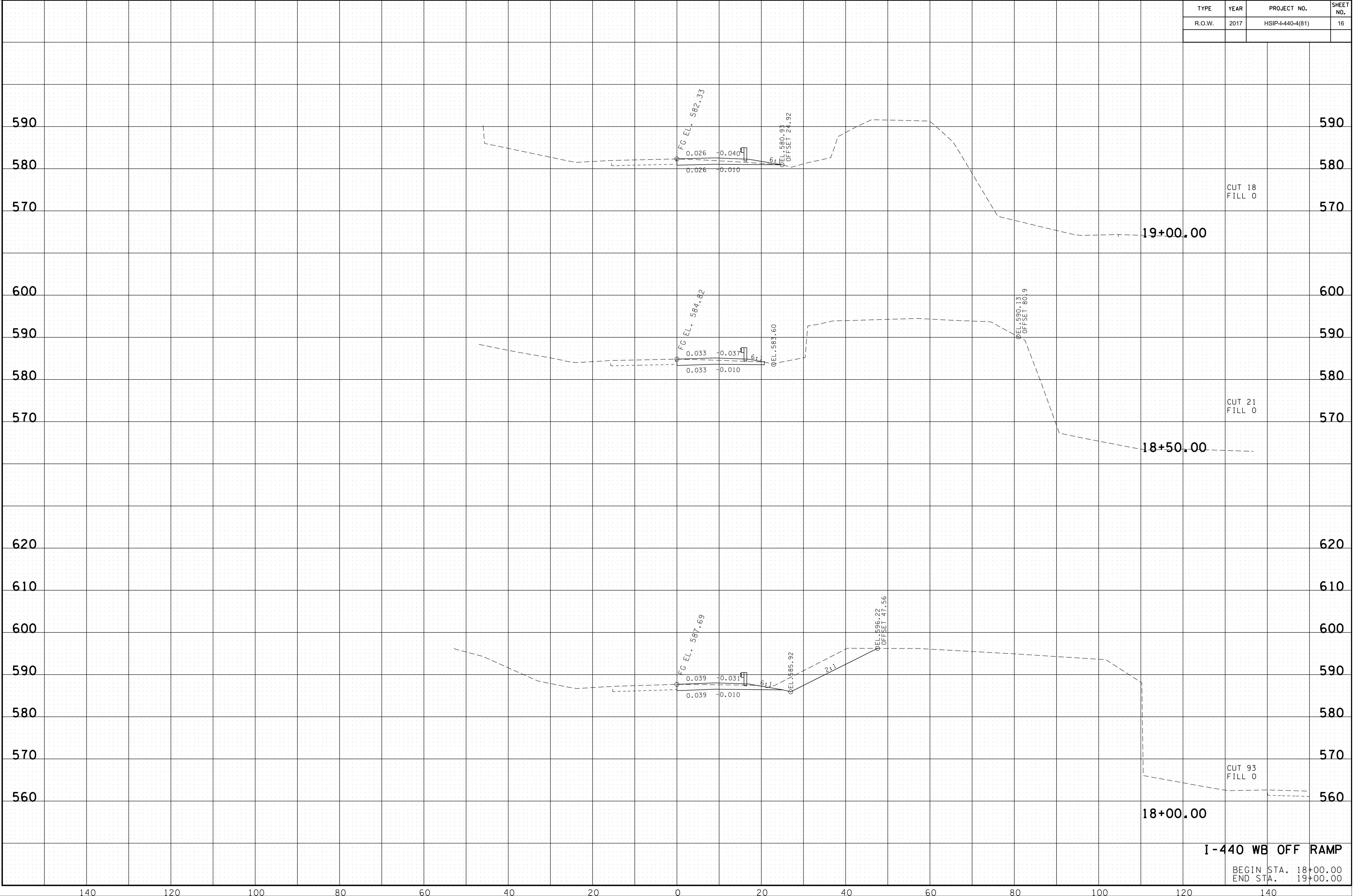
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSP-1440-4(81)	15



8/3/2017 10:38:38 AM
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I-440 WB OFF RAMP
 BEGIN STA. 17+00.00
 END STA. 17+50.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSIP-1440-4(81)	16

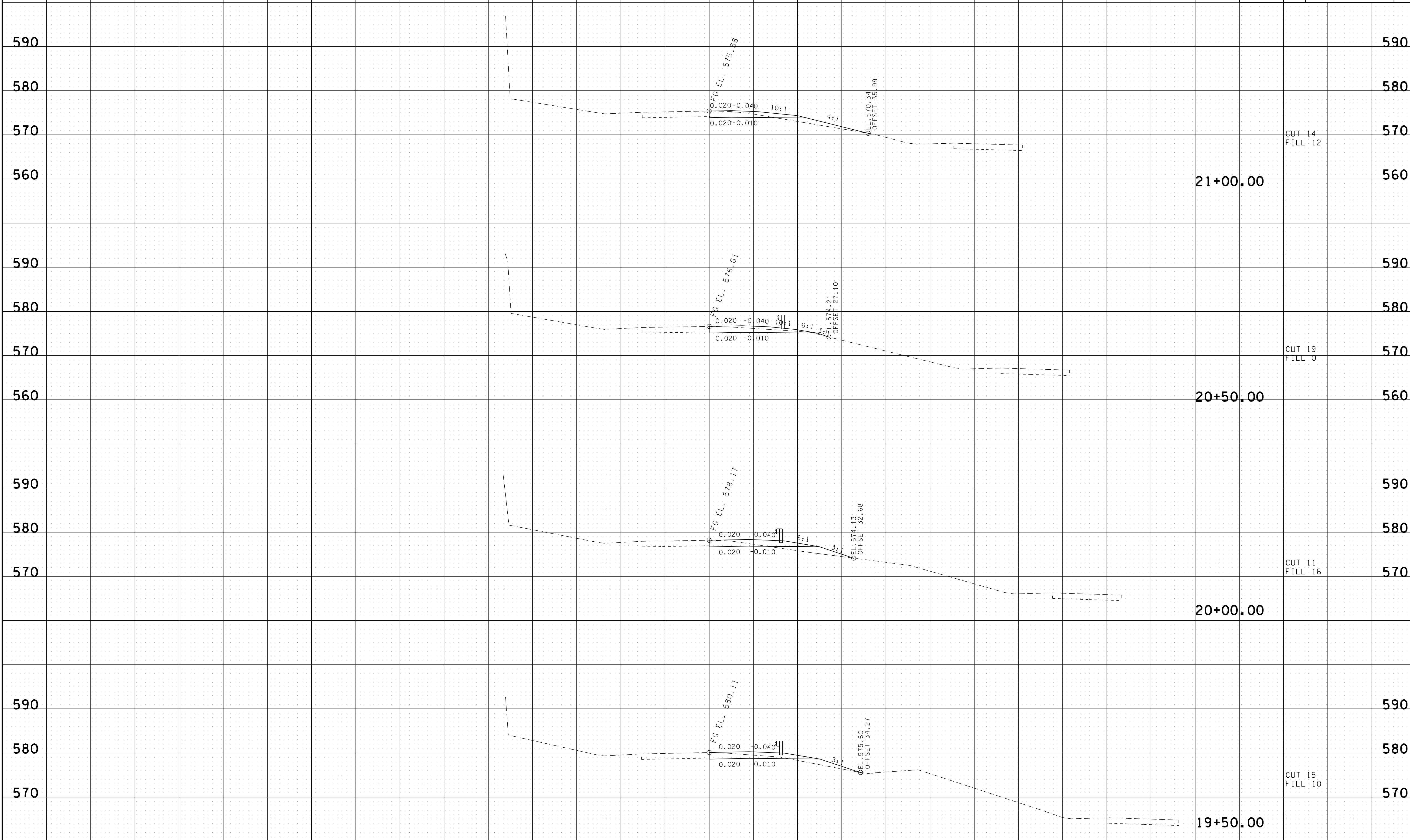


I-440 WB OFF RAMP

BEGIN STA. 18+00.00
END STA. 19+00.00

8/3/2017 10:38:38 AM
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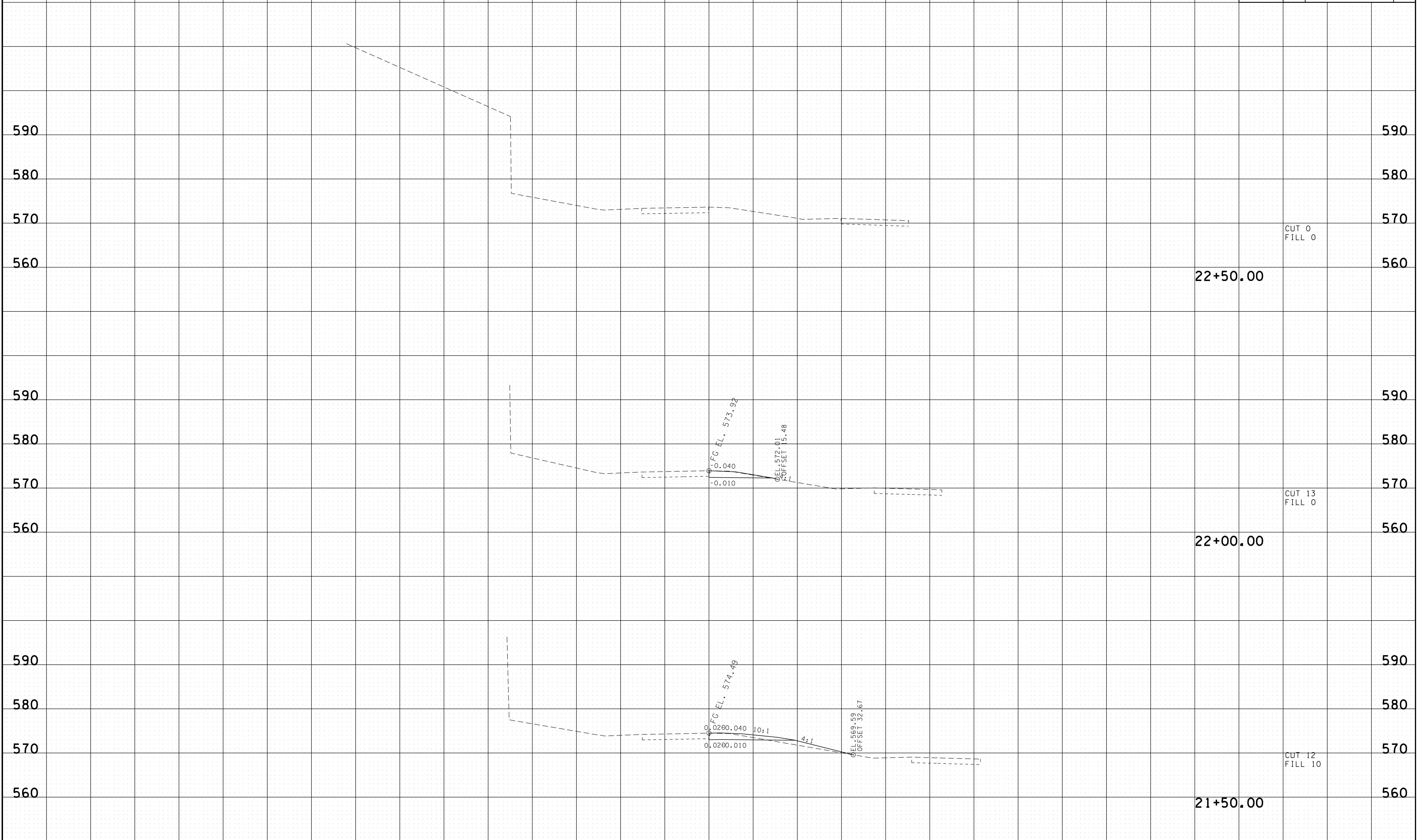
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2017	HSP-1440-4(81)	17



I-440 WB OFF RAMP

BEGIN STA. 19+50.00
END STA. 21+00.00

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I-440 WB OFF RAMP

BEGIN STA. 21+50.00
 END STA. 22+00.00

8/3/2017 10:38:40 AM N:\2862 - TDOT Traffic\008 1440 of Hillsboro\ogn\013-018.sht