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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES X	NO

TENN.	YEAR	SHEET NO.
	2019	1
FED. AID PROJ. NO.	BR-STP-436(5)	
STATE PROJ. NO.	09035-0220-94	

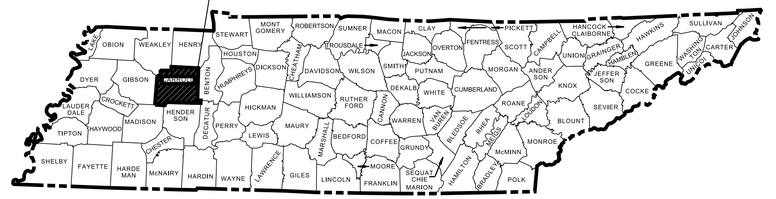
CARROLL COUNTY

S.R. 436 (REEDY CREEK RD.) BRIDGE REPLACEMENT
OVER REEDY CREEK AT L.M. 0.68

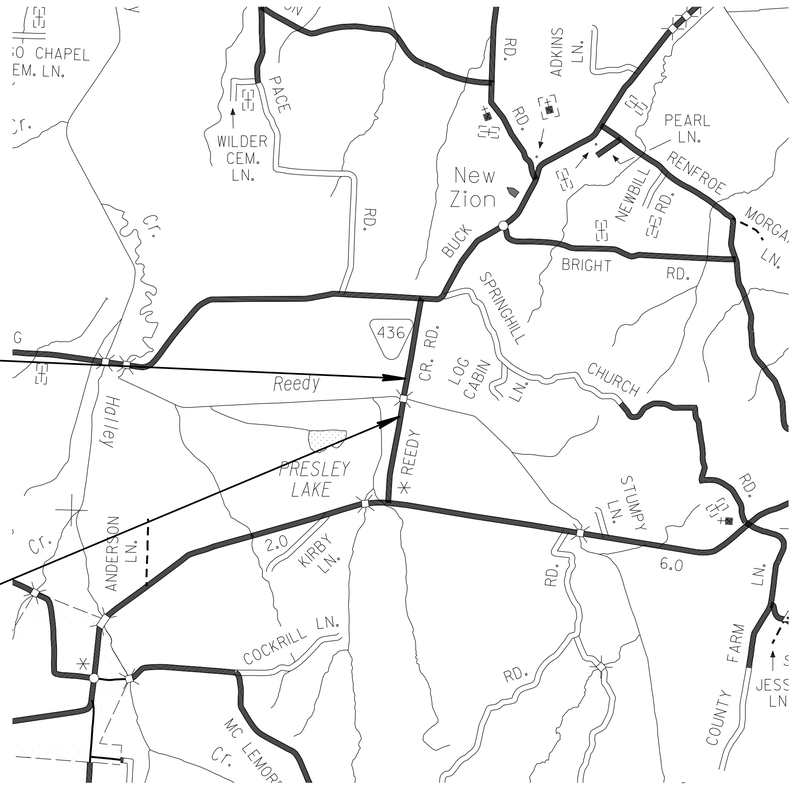
PRELIMINARY

STATE HIGHWAY NO. 436 U.S. ROUTE NO.

PROJECT LOCATION
BRIDGE ID. # 09S82330001



PROJECT LOCATION
BRIDGE ID. #



SCALE: 1"= 1/2 MILE

NO EXCLUSIONS

PRELIMINARY

PLANS

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

09035-0220-94
END PROJECT NO. BR-STP-436(5) PRELIMINARY
STA. 68+30.00
N 622544.7969 E 1217723.6602

09035-0220-94
BEGIN PROJECT NO. BR-STP-436(5) PRELIMINARY
STA. 51+60.00
N 620899.2269 E 1217445.7844

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

DATE:

APPROVED: Clay Bright
CLAY BRIGHT, 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 : STEPHANIE KISSELL

DESIGNED BY : HDR ENGINEERING, INC.

DESIGNER : GREG CLUCKER CHECKED BY KEVIN CAGLE

P.E. NO. 09035-0220-94 (NEPA)

PIN NO. 128113.01

R.O.W. LENGTH	0.316 MILES
ROADWAY LENGTH	0.299 MILES
BRIDGE LENGTH	0.017 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.316 MILES

▲ Not included in the project length (Non Riding Surface).

S.R. 436

SURVEY 10-16-18	TRAFFIC DATA	
	ADT (2022)	380
	ADT (2042)	450
	DHV (2042)	68
	D	65 - 35
	T (ADT)	5 %
	T (DHV)	3 %
	V	45 MPH

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 WITH GEOID 03 .

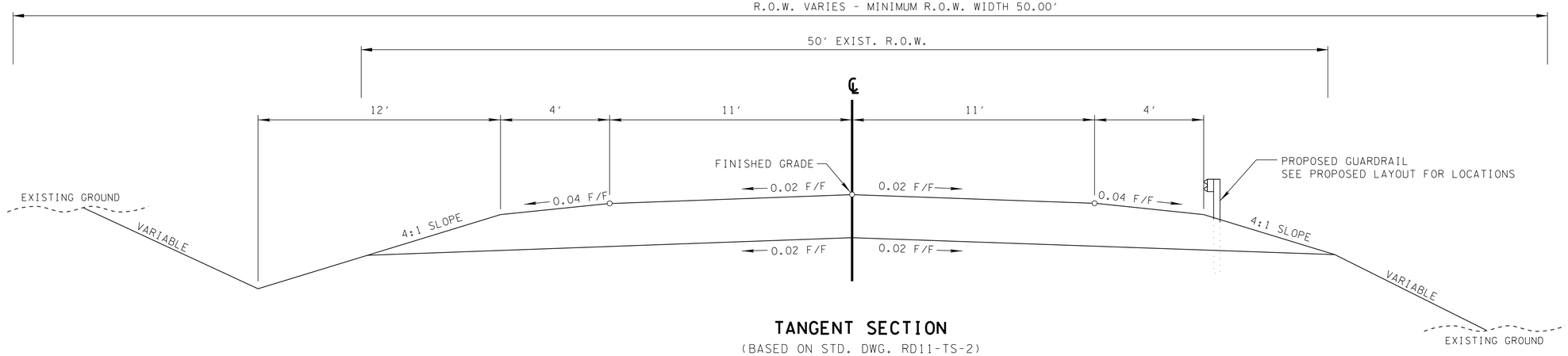
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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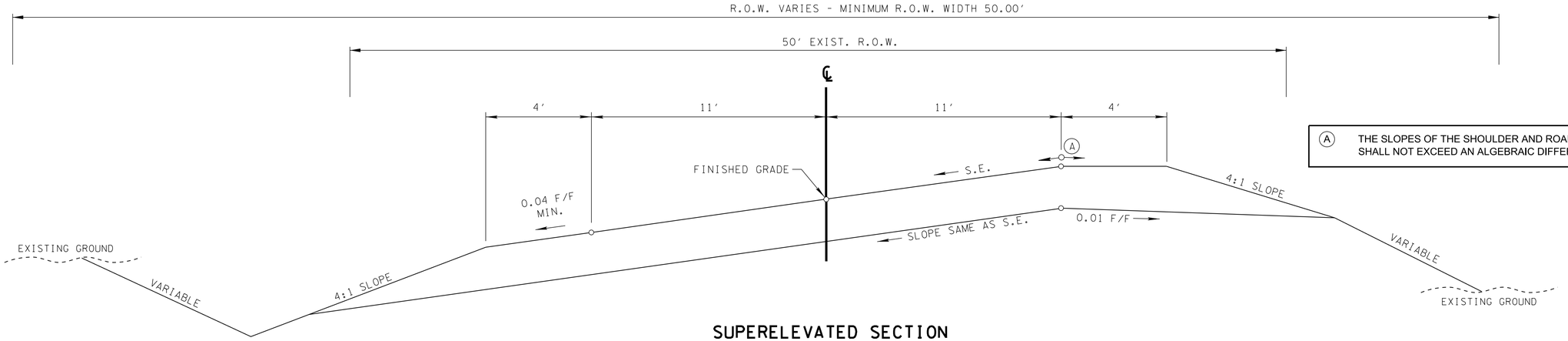
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	2B



TANGENT SECTION

(BASED ON STD. DWG. RD11-TS-2)

STA. 51+60.00 TO STA. 51+67.09 (PAVEMENT TAPER)
STA. 59+37.28 TO STA. 60+51.03
STA. 68+19.32 TO STA. 68+30.00 (PAVEMENT TAPER)



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

SUPERELEVATED SECTION

(BASED ON STD. DWG. RD11-TS-2)

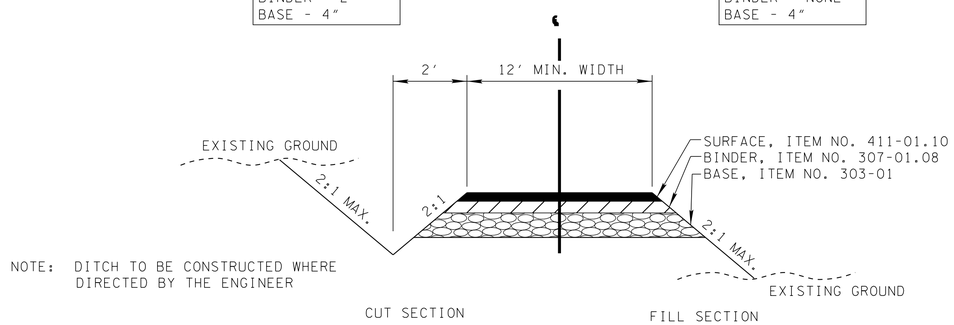
STA. 51+67.09 TO STA. 52+60.00 (PAVEMENT TAPER)
STA. 52+60.00 TO STA. 59+37.28
STA. 60+51.03 TO STA. 67+30.00
STA. 67+30.00 TO STA. 68+19.32 (PAVEMENT TAPER)

BUSINESS

SURFACE - 1¼"
BINDER - 2"
BASE - 4"

FIELD OR RESIDENTIAL

SURFACE - 1½"
BINDER - NONE
BASE - 4"

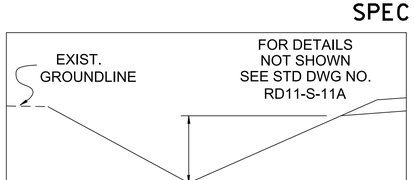


NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY

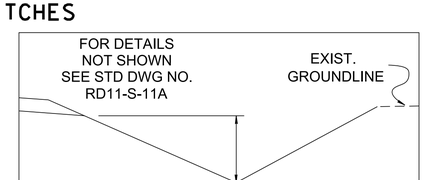
SPECIAL DITCHES



PROP. "V" BOTTOM SODDED DITCH

SR 436 LEFT STA. 56+00.00 TO STA. 59+00.00

SR 436 LEFT STA. 60+50.00 TO STA. 68+00.00



PROP. "V" BOTTOM SODDED DITCH

SR 436 RIGHT STA. 52+00.00 TO STA. 52+50.00

SR 436 RIGHT STA. 66+00.00 TO STA. 68+00.00

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	3

RIGHT-OF-WAY

(1) 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.

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

(3) 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.

(4) 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.

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

(6) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(7) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

UTILITY

(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 ITS 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 OWNERS

ELECTRIC:

CARROLL COUNTY ELECTRIC DEPT.

103 W. PARIS ST.

HUNTINGTON, TN 38344

CONTACT:

OFFICE PHONE: 731- 986- 8284

CELL PHONE:

Email:

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

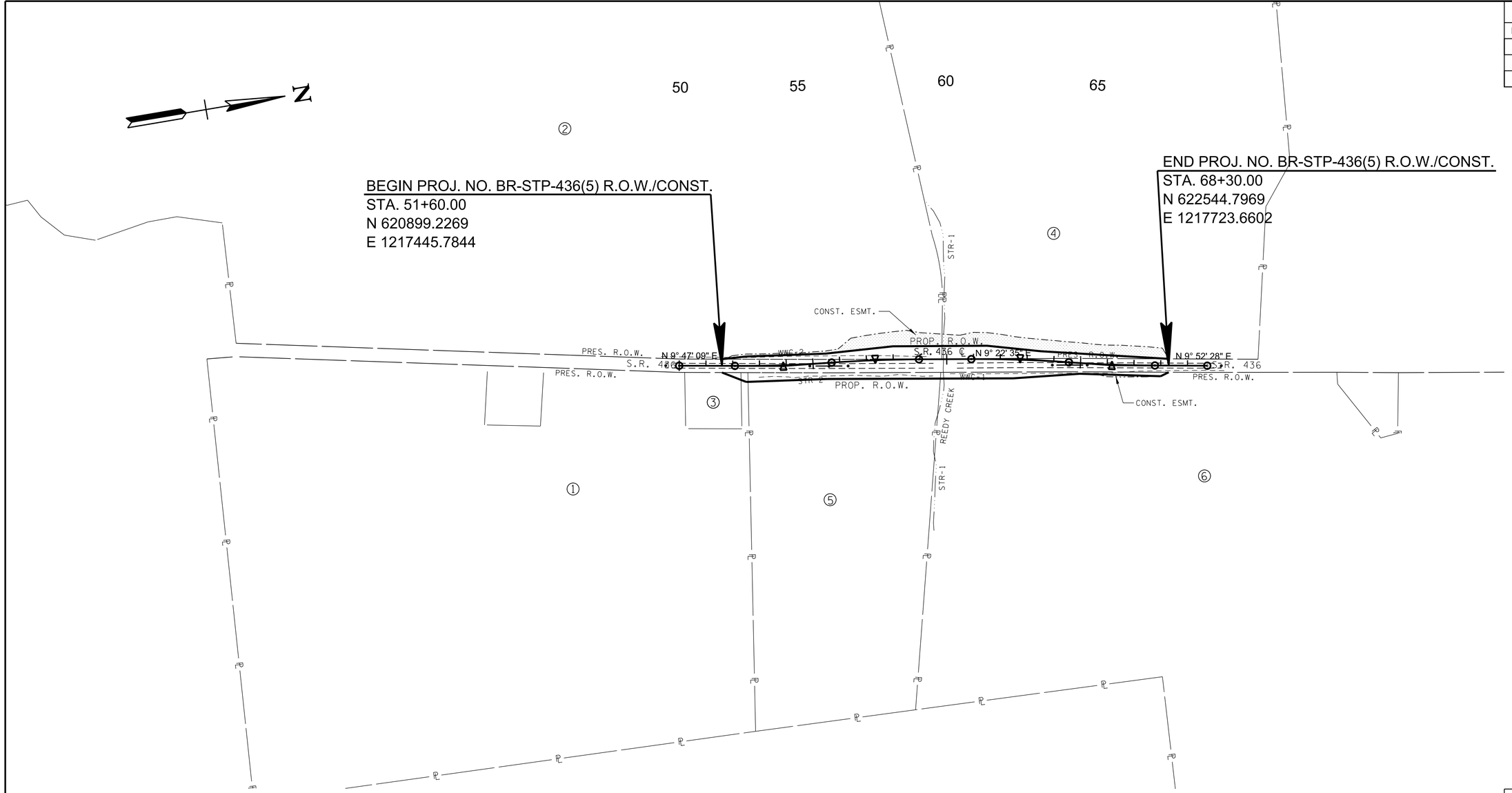
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	3A



DISTURBED AREA		
IN BETWEEN SLOPE LINES	3.648	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	1.248	(AC)
TOTAL DISTURBED AREA	4.896	(AC)

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BOOK	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION	AIR RIGHTS
1	MRS.V.M. PRESLEY ETAL CARROLL COUNTY HUMANE	075	007.00	375	794		65.154	65.154		834 S.F.	834 S.F.		65.135				
2	JEFFERY WHITE	075	001.00	359	780	388.293		388.293	0.523		0.523	387.770				0.515	
3	IMOGENE P. PRESLEY LIFE ESTATE	075	007.02	375	794		1.013	1.013		966 S.F.	966 S.F.		0.991				
4	RONALD L. BUSH ET UX LINDA G.	060	041.00	139	493	151.475		151.475	0.508		0.508	150.967				0.817	
5	JOYCE L. COLEMAN LIFE ESTATE	075	008.00	375	227		19.629	19.629		0.421	0.421		19.208				
6	SAMUEL W. COLEMAN ET AL SHERRIE D. GAREY	060	044.00	368	439		186.577	186.577		0.315	0.315		186.262			1138 S.F.	
ACQUISITION TOTALS (ACRES)										1.809						1.358	

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

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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 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP
AND
RIGHT-OF-WAY
ACQUISITION
TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	4

N

SR 436
PI 53+89.03
N 621,124.9200
E 1,217,484.7112
Δ 4° 12' 14" (LT)
D 1° 09' 44"
R 4,930.00
L 361.72
T 180.94
SE RC
DESIGN SPEED 45 MPH
TRANS. LENGTH 82

SR 436
PI 57+33.10
N 621,467.5269
E 1,217,518.1959
Δ 3° 47' 40" (RT)
D 1° 09' 44"
R 4,930.00
L 326.48
T 163.30
SE RC
DESIGN SPEED 45 MPH
TRANS. LENGTH 82

2

JEFFERY WHITE

4

RONALD BUSH
ET UX LINDA G.

50 55 60

POT 50+00.00
PC 52+08.09
PRC 55+69.80

AGRICULTURE

NOTE: SEE DESIGN-BUILD RFP FOR MORE INFORMATION ON RELOCATING EXISTING BERMS ADJACENT TO SR-436 AND REEDY CREEK.

BEGIN PROJ. NO. BR-STP-436(5) R.O.W./CONST.
STA. 51+60.00
N 620899.2269
E 1217445.7844

SEE SHEET NO. 5

STA. 61+00

MATCH LINE

TO MCLEMORESVILE

N 9° 47' 09" E
S.R. 436 (ASP.)
GRASS SHLD.(TYP.)
4W/P
PRES. R.O.W.
TOE OF FILL
TOP OF CUT
S.R. 436 ℄
WWC-2
GPS-09-436-09
GPS-09-436-10
INV-377.62
INV-377.73
48" CMP
INV-377.18
STR-2
INV-376.50
12" PVC
INV-378.97
INV-379.14
8" HACKBERRY
TBM-01
BEGIN EX. BRIDGE
59+50.13
OFFSET 23.87' RT.
END EX. BRIDGE
60+38.45
OFFSET 24.52' RT.
4 SPAN. CONC. BOX BEAM BRIDGE NO. 09S82330001
N 9° 22' 35" E
OM-3L
OM-3R
R12-1
WWC-1
STR-1
PT 58+96.28
PC 60+92.03

3

IMOGENE P. PRESLEY LIFE ESTATE

1

MRS. V.M. PRESLEY ETAL CARROLL COUNTY HUMANE
C/O IMOGENE PRESLEY

5

JOYCE L. COLEMAN LIFE ESTATE

AGRICULTURE

6

SAMUEL W. COLEMAN
ET AL SHERRIE D. GAREY

CONTROL POINTS ALONG S.R. 15 (S.R. 436)					
PT. NO.	NORTHING	EASTING	ELEVATION (FT.)	STATION	OFFSET (FT)
GPS 09-436-09	N 621043.1106	E 1217485.8865	384.32	53+08.61	15.06 RT
GPS 09-436-10	N 621461.1767	E 1217556.1088	385.21	57+32.43	14.44 RT
GPS 09-436-11	N 622064.7473	E 1217661.2228	385.17	63+45.06	19.82 RT

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 51+60 TO STA. 61+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	4A

N

50

55

60

BEGIN PROJ. NO. BR-STP-436(5) R.O.W./CONST.
STA. 51+60.00
N 620899.2269
E 1217445.7844

59+47.77
462.51'

2

JEFFERY WHITE

4

RONALD BUSH
ET UX LINDA G.

R=778.70'
L=234.14'

59+85.07
232.25'

S 79° 46' 3" E
182.90'

CONST. ESMT.

TOE OF FILL

59+82.34
49.37'

S 79° 46' 3" E
48.37'

S 3^ 25' 0" W
252.29'

56+31.97
8.10'

PROP. R.O.W.

58+00.00
50.00'

S 9^ 16' 40" W
183.31'

S 9^ 16' 40" W
168.25'

SEE SHEET NO. 5A

49+50.00
25.00'

51+60.00
25.00'

52+50.00
35.00'

N 11° 42' 42" e
1606.45'

N 9° 47' 9" E
210.00'

N 3^ 18' 48" E
90.28'

PROP. R.O.W.

N 7^ 33' 20" E
297.82'

54+89.38
17.00'

R=19075.00'
L=142.76'

TOE OF FILL

N 9° 47' 9" E
328.26'

55+50.00
35.00'

S.R. 436 ℄

N 9° 22' 35" E
349.95'

N 9° 22' 35" E

N 9° 47' 09" E

59+81.61
1.00'

59+77.66
49.00'

51+60.00
25.00'

GPS-09-436-09

S 9° 47' 9" W
70.60'

52+30.49
25.05'

GPS-09-436-10

56+29.27
41.83'

TOE OF FILL

N 9° 47' 9" E
231.70'

TOP OF CUT

R=20025.00'
L=143.11'

S 9° 22' 35" W
345.99'

N 76° 6' 0" W
23.36'

S 9° 22' 35" W
417.10'

S 11° 54' 54" W
455.86'

49+50.00
25.00'

S 9° 47' 9" W
70.56'

S 9° 47' 9" W
139.44'

N 30^ 49' 41" E
76.25'

N 81° 24' 5" W
27.38'

52+30.92
52.43'

S 30^ 49' 41" W
20.72'

PROP. R.O.W.

S 7^ 33' 20" W
303.60'

PROP. R.O.W.

S 9^ 25' 14" W
421.81'

59+75.82
72.29'

S 9^ 25' 14" W
271.91'

MATCH LINE STA. 61+00

50+20.56
25.00'

52+50.00
60.00'

52+56.31
25.24'

55+50.00
60.00'

N 81° 24' 5" W
210.05'

S 81° 24' 5" E
34.56'

52+56.81
59.79'

54+86.55
32.91'

N 81° 24' 5" W
182.66'

TBM-01

3

IMOGENE P. PRESLEY LIFE ESTATE

52+33.73
235.07'

S 81° 36' 56" E
1305.12'

N 9° 47' 9" E
210.05'

50+24.91
235.00'

N 9° 47' 9" E
25.96'

S 7^ 33' 20" W
6.90'

1

5

JOYCE L. COLEMAN LIFE ESTATE

N 76° 6' 0" W
1203.61'

6

SAMUEL W. COLEMAN
ET AL SHERRIE D. GAREY

MRS. V.M. PRESLEY ETAL CARROLL COUNTY HUMANE
C/O IMOGENE PRESLEY

CONTROL POINTS ALONG S.R. 15 (S.R. 436)

PT. NO.	NORTHING	EASTING	ELEVATION (FT.)	STATION	OFFSET (FT)
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GPS 09-436-11	N 622064.7473	E 1217661.2228	385.17	63+45.06	19.82 RT

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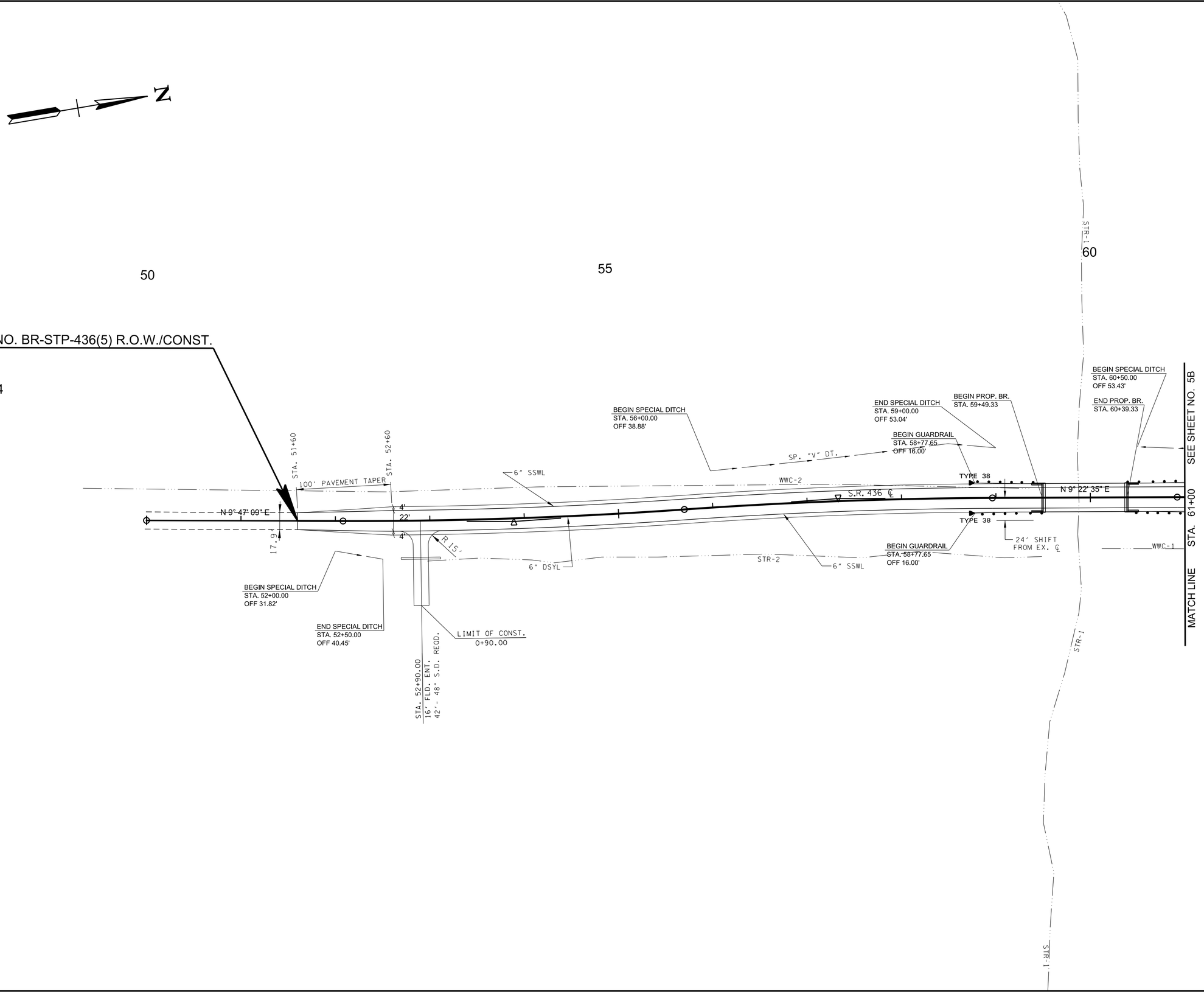
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 51+60 TO STA. 61+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	4B



CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

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 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

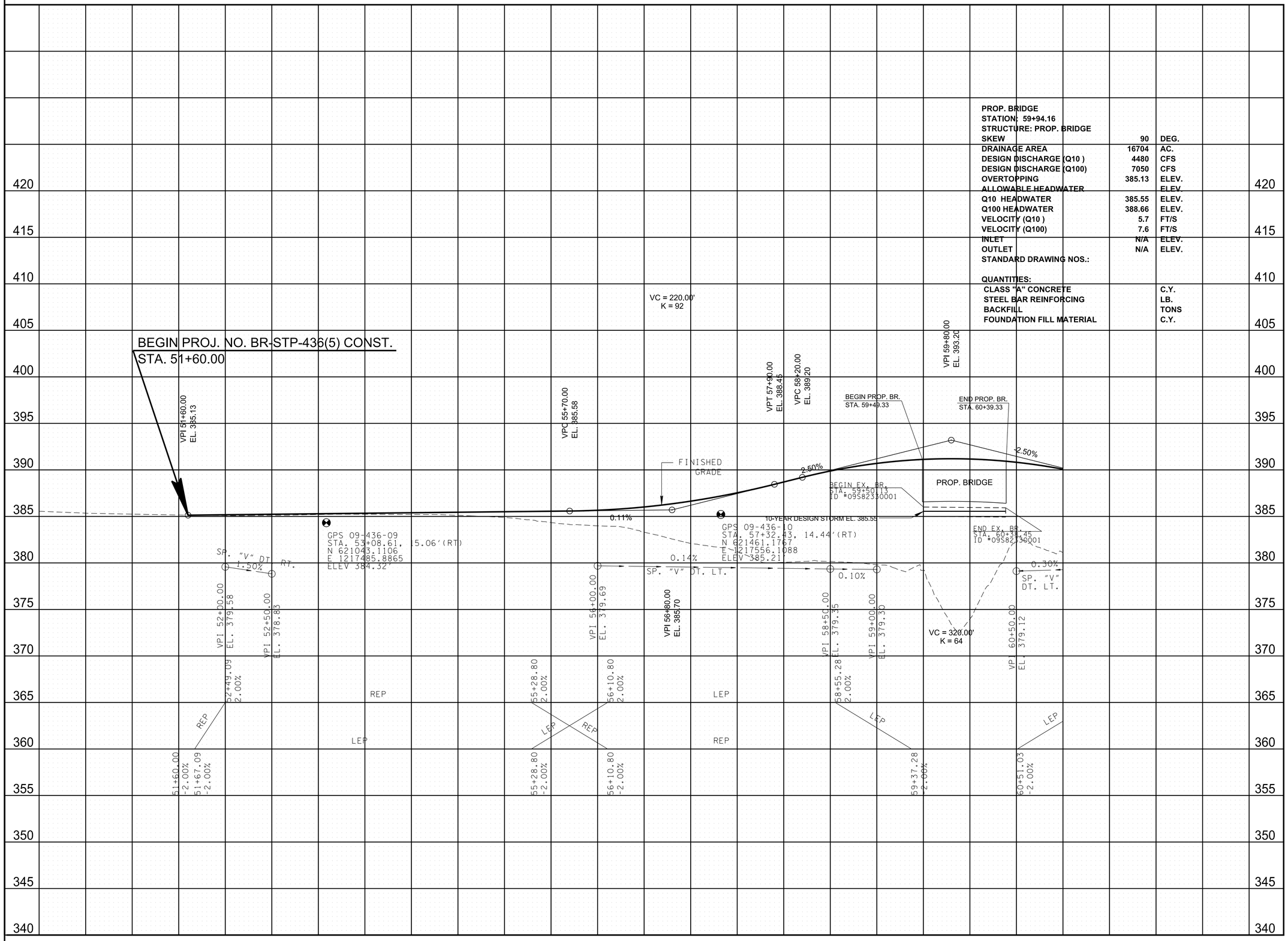
PROPOSED LAYOUT

STA. 51+60 TO STA. 61+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	4C

REV. 01-22-20: REVISED 10-YEAR DESIGN STORM ELEVATION IN PROFILE. REVISED OVERTOPPING ELEVATION AND Q10 AND Q100 HEADWATER ELEVATIONS AND VELOCITIES.



PROP. BRIDGE		
STATION: 59+94.16		
STRUCTURE: PROP. BRIDGE		
SKEW	90	DEG.
DRAINAGE AREA	16704	AC.
DESIGN DISCHARGE (Q10)	4480	CFS
DESIGN DISCHARGE (Q100)	7050	CFS
OVERTOPPING	385.13	ELEV.
ALLOWABLE HEADWATER		ELEV.
Q10 HEADWATER	385.55	ELEV.
Q100 HEADWATER	388.66	ELEV.
VELOCITY (Q10)	5.7	FT/S
VELOCITY (Q100)	7.6	FT/S
INLET	N/A	ELEV.
OUTLET	N/A	ELEV.
STANDARD DRAWING NOS.:		
QUANTITIES:		
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
BACKFILL		TONS
FOUNDATION FILL MATERIAL		C.Y.

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

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 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 51+60 TO STA. 61+00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	5

SR 436
PI 62+74.40
N 622,001.7068
E 1,217,606.4028
Δ 4° 14′ 13″ (RT)
D 1° 09′ 44″
R 4,930.00
L 364.57
T 182.37
SE RC
DESIGN SPEED 45 MPH
TRANS. LENGTH 82

SR 436
PI 66+17.52
N 622,335.3497
E 1,217,687.2022
Δ 3° 44′ 20″ (LT)
D 1° 09′ 44″
R 4,930.00
L 321.72
T 160.92
SE RC
DESIGN SPEED 45 MPH
TRANS. LENGTH 82

END PROJ. NO. BR-STP-436(5) R.O.W./CONST.
STA. 68+30.00
N 622544.7969
E 1217723.6602

4

RONALD BUSH ET UX LINDA G.

65

AGRICULTURE

NOTE: SEE DESIGN-BUILD RFP FOR MORE INFORMATION ON RELOCATING EXISTING BERMS ADJACENT TO SR-436 AND REEDY CREEK.

GPS-09-436-09

PT 67+78.32

POT 69+73.84

TBM-01

SEE SHEET NO. 4

STA. 61+00

TOE OF FILL

TOE OF FILL

PRES. R.O.W.

S.R. 436 ℄

N 9° 52' 28" E

S.R. 436 (ASP.)

TO MCKENZIE

TOP OF CUT

GPS-09-436-11

GRASS SHLD.(TYP.)

PRES. R.O.W.

WWC 1

TOP OF CUT

PRES. R.O.W.

4W/P

TBM-02

MATCH LINE

18" WALNUT

PRC 64+56.60

AGRICULTURE

6

SAMUEL W. COLEMAN
ET AL SHERRIE D. GAREY

CONTROL POINTS ALONG S.R. 15 (S.R. 436)

PT. NO.	NORTHING	EASTING	ELEVATION (FT.)	STATION	OFFSET (FT)
GPS 09-436-09	N 621043.1106	E 1217485.8865	384.32	53+08.61	15.06 RT
GPS 09-436-10	N 621461.1767	E 1217556.1088	385.21	57+32.43	14.44 RT
GPS 09-436-11	N 622064.7473	E 1217661.2228	385.17	63+45.06	19.82 RT

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

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 WITH GEOID 03 .

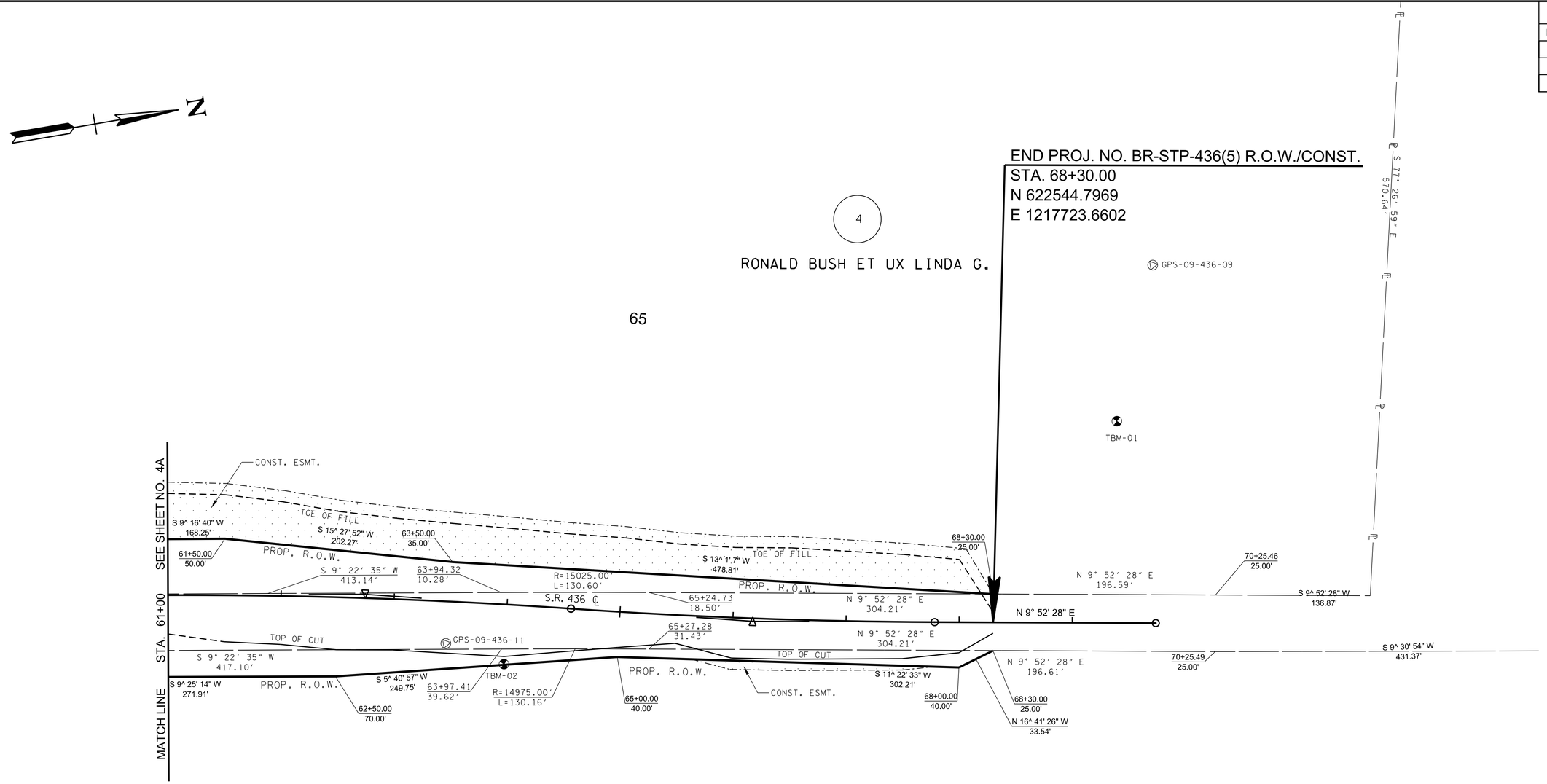
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 61+00 TO STA. 68+30
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	5A



6

SAMUEL W. COLEMAN
ET AL SHERRIE D. GAREY

CONTROL POINTS ALONG S.R. 15 (S.R. 436)

PT. NO.	NORTHING	EASTING	ELEVATION (FT.)	STATION	OFFSET (FT)
GPS 09-436-09	N 621043.1106	E 1217485.8865	384.32	53+08.61	15.06 RT
GPS 09-436-10	N 621461.1767	E 1217556.1088	385.21	57+32.43	14.44 RT
GPS 09-436-11	N 622064.7473	E 1217661.2228	385.17	63+45.06	19.82 RT

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

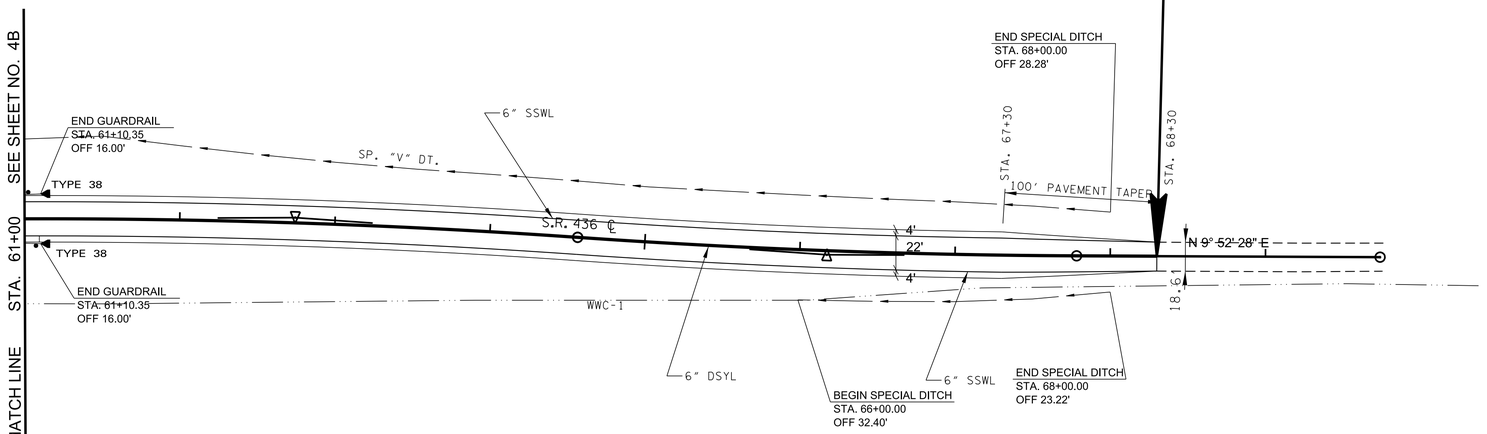
RIGHT OF WAY DETAILS

STA. 61+00 TO STA. 68+30
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	5B

END PROJ. NO. BR-STP-436(5) R.O.W./CONST.
STA. 68+30.00
N 622544.7969
E 1217723.6602



CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

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 WITH GEOID 03 .

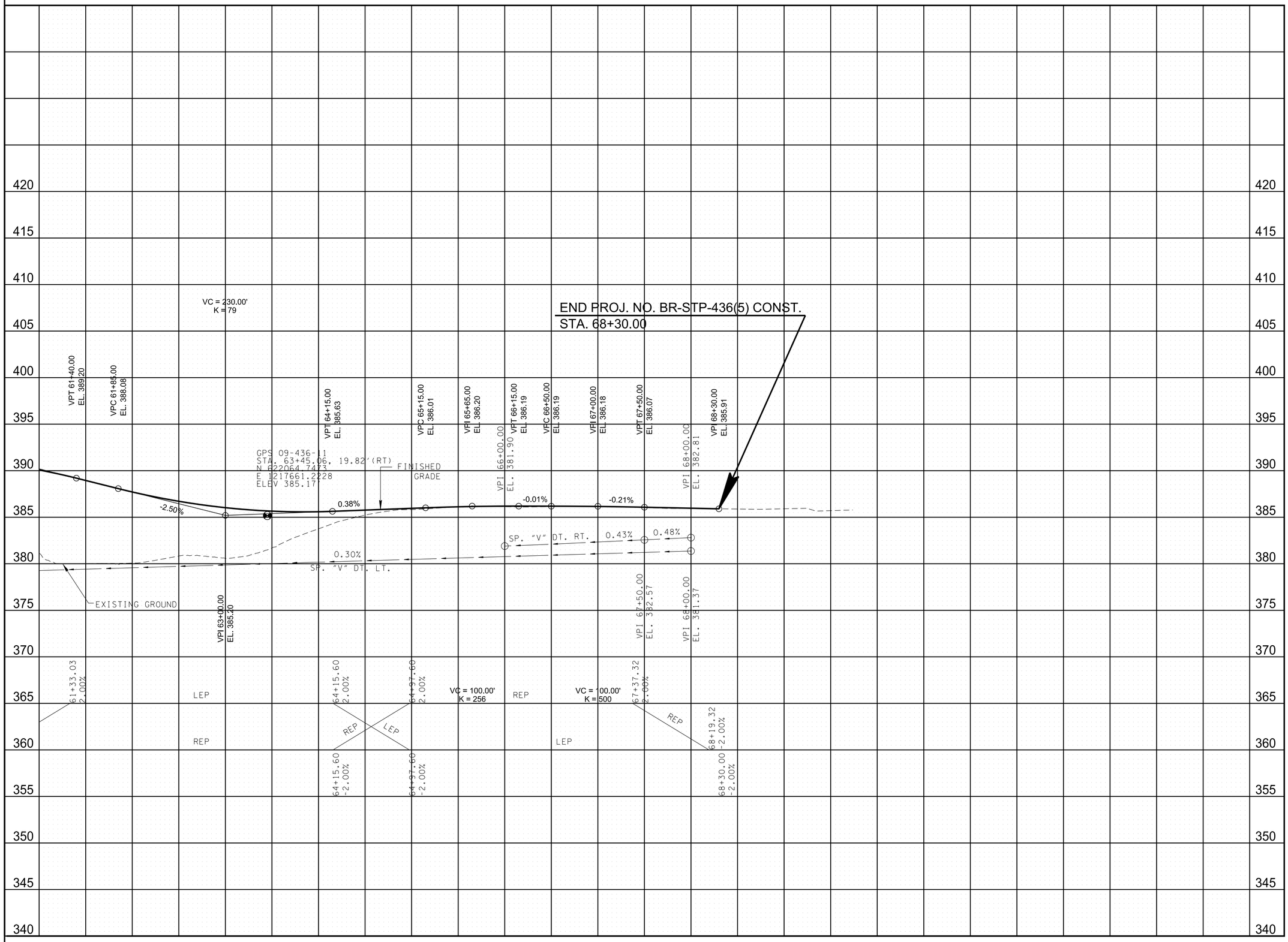
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 61+00 TO STA. 68+30
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	5C



CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

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 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

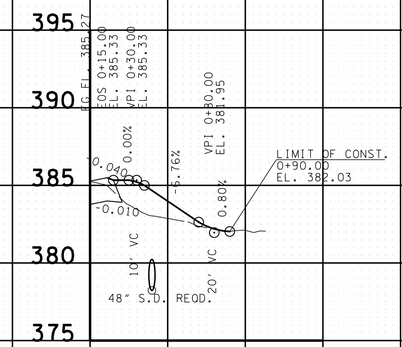
PROPOSED PROFILE

STA. 61+00 TO STA. 68+30

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	6



16' FLD. ENT. RT. 52+90.00
S.R. 436
TRACT NO. 5

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

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 WITH GEOID 03 .

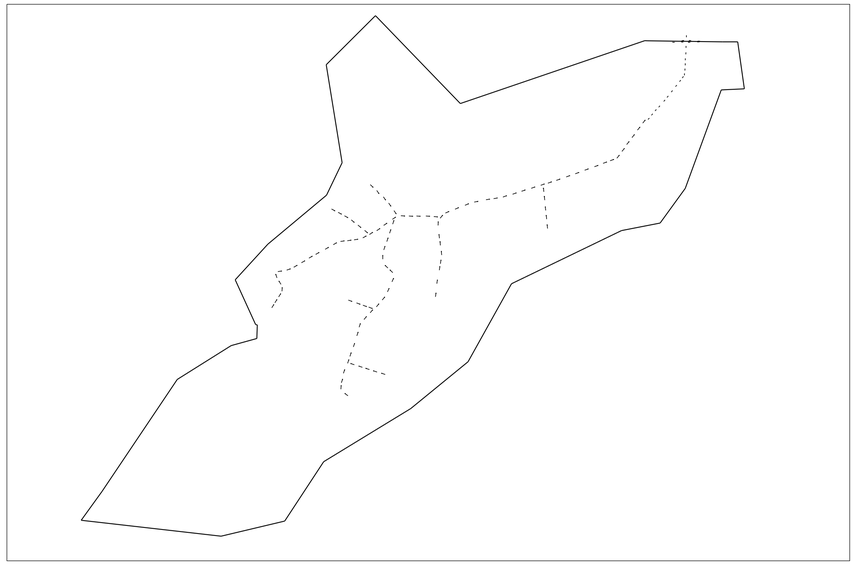
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	7

REV. 01-22-20: REVISED OVERTOPPING ELEVATION AND Q10 AND Q100 HEADWATER ELEVATIONS AND VELOCITIES.



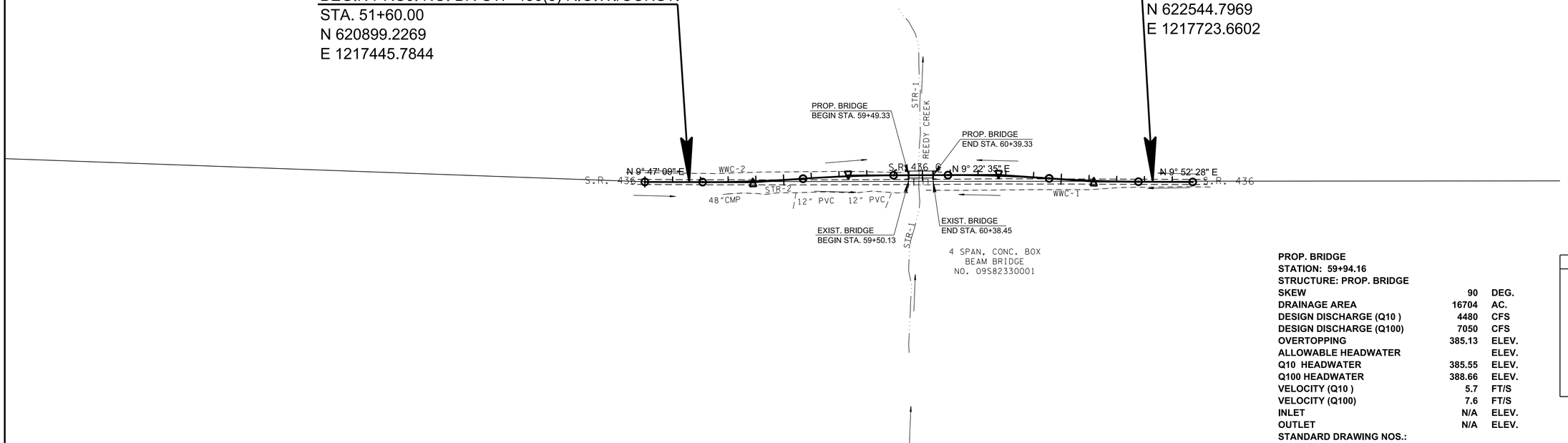
INSET A (NOT TO SCALE)



50 55 60 65

BEGIN PROJ. NO. BR-STP-436(5) R.O.W./CONST.
STA. 51+60.00
N 620899.2269
E 1217445.7844

END PROJ. NO. BR-STP-436(5) R.O.W./CONST.
STA. 68+30.00
N 622544.7969
E 1217723.6602



PROP. BRIDGE		
STATION: 59+94.16		
STRUCTURE: PROP. BRIDGE		
SKEW	**90**	**DEG.**
DRAINAGE AREA	**16704**	**AC.**
DESIGN DISCHARGE (Q10)	**4480**	**CFS**
DESIGN DISCHARGE (Q100)	**7050**	**CFS**
OVERTOPPING	**385.13**	**ELEV.**
ALLOWABLE HEADWATER		**ELEV.**
Q10 HEADWATER	**385.55**	**ELEV.**
Q100 HEADWATER	**388.66**	**ELEV.**
VELOCITY (Q10)	**5.7**	**FT/S**
VELOCITY (Q100)	**7.6**	**FT/S**
INLET	**N/A**	**ELEV.**
OUTLET	**N/A**	**ELEV.**
STANDARD DRAWING NOS.:		
QUANTITIES:		
CLASS "A" CONCRETE		**C.Y.**
STEEL BAR REINFORCING		**LB.**
BACKFILL		**TONS**
FOUNDATION FILL MATERIAL		**C.Y.**

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 51+60 TO STA. 68+30
SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	8

S.R. 436

BEGIN STA. 51+60.00
END STA. 52+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	9

PROP. R.O.W.
OFFSET -37.27
OFFSET -34.54
EL.380.13
PRES. R.O.W.
OFFSET -21.28
385.39
FG EL. 385.39
4:1
-0.040 -0.020 0.020 -0.040
-0.020 -0.020 0.020 -0.010
OFFSET -21.17
EL.383.47
EL 384.02
OFFSET 20.75
4:1
EL.382.44 EL.382.45
OFFSET 27.31
PRES. R.O.W.
OFFSET 28.76
PROP. R.O.W.
OFFSET 57.69
54+00.00
CUT 26
FILL 52
TOPSOIL 22

PROP. R.O.W.
OFFSET -37.01
OFFSET -34.20
EL.380.16
PRES. R.O.W.
OFFSET -22.97
385.34
FG EL. 385.34
4:1
-0.040 -0.020 0.020 -0.040
-0.020 -0.020 0.020 -0.010
OFFSET -21.17
EL.383.42
EL 383.96
OFFSET 20.75
4:1
EL 376.93
OFFSET 41.84
PRES. R.O.W.
OFFSET 27.05
PROP. R.O.W.
OFFSET 57.95
53+50.00
CUT 25
FILL 74
TOPSOIL 29

PROP. R.O.W.
OFFSET -36.26
OFFSET -38.76
EL.380.22
PRES. R.O.W.
OFFSET -24.15
385.28
FG EL. 385.28
4:1
-0.040 -0.020 0.020 -0.040
-0.020 -0.020 0.020 -0.010
OFFSET -21.17
EL.383.36
EL 383.91
OFFSET 20.75
4:1
EL.382.35 EL.382.18
OFFSET 30.26
PRES. R.O.W.
OFFSET 25.86
PROP. R.O.W.
OFFSET 58.72
53+00.00
CUT 27
FILL 45
TOPSOIL 23

S.R. 436

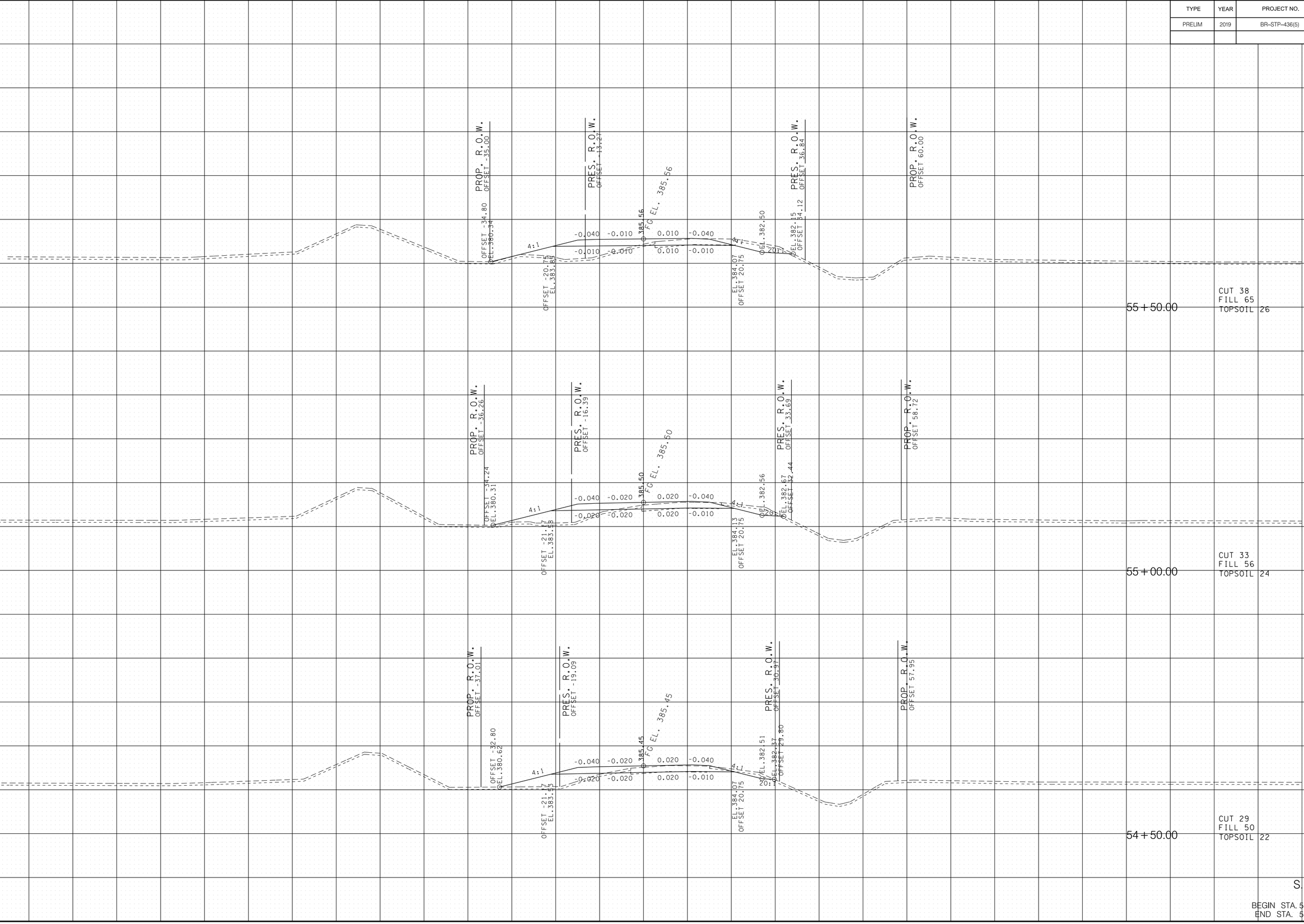
BEGIN STA. 53+00.00
END STA. 54+00.00

410 400 390 380 370

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	10

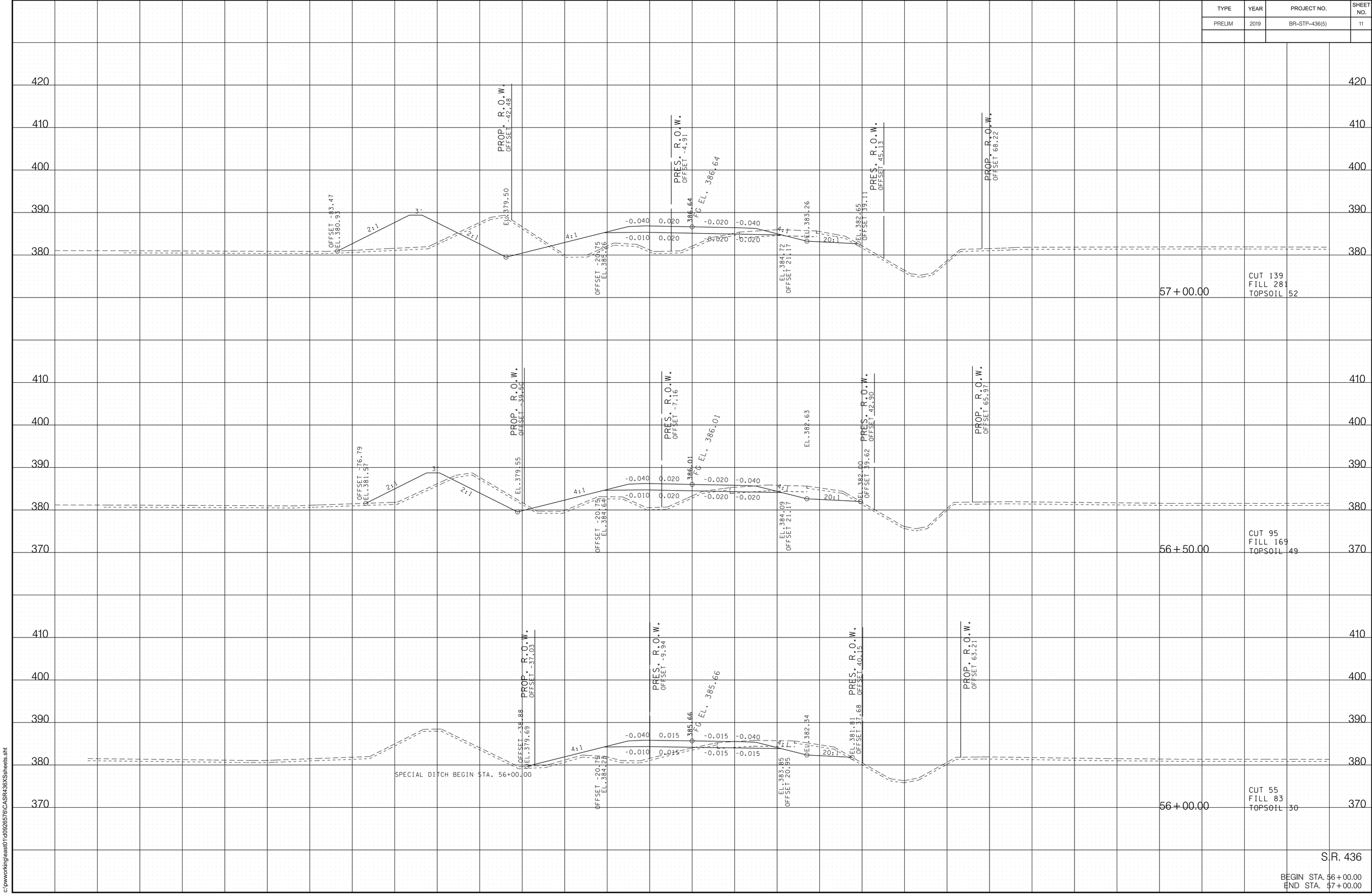


S.R. 436

BEGIN STA. 54+50.00
END STA. 55+50.00

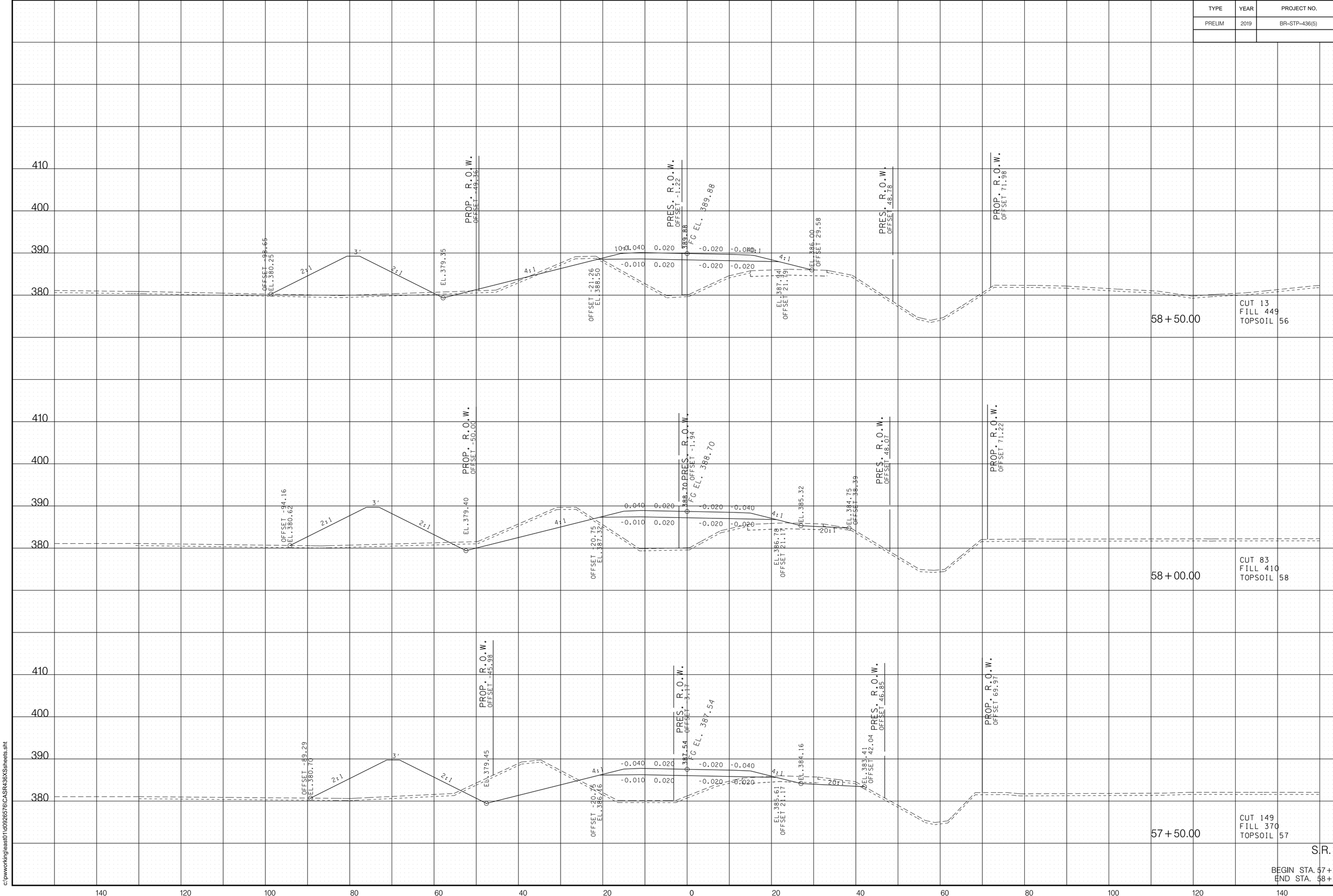
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	11



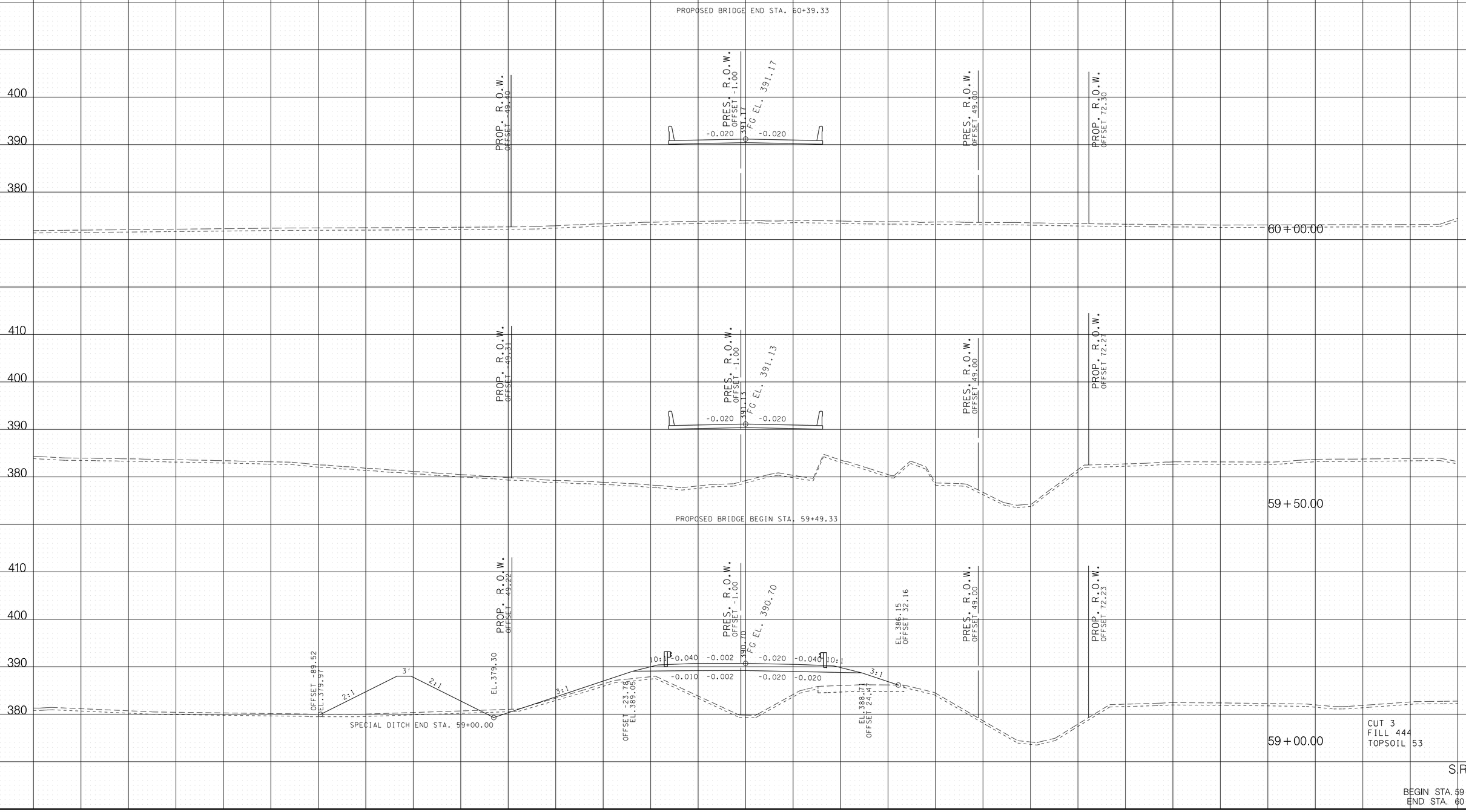
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	12



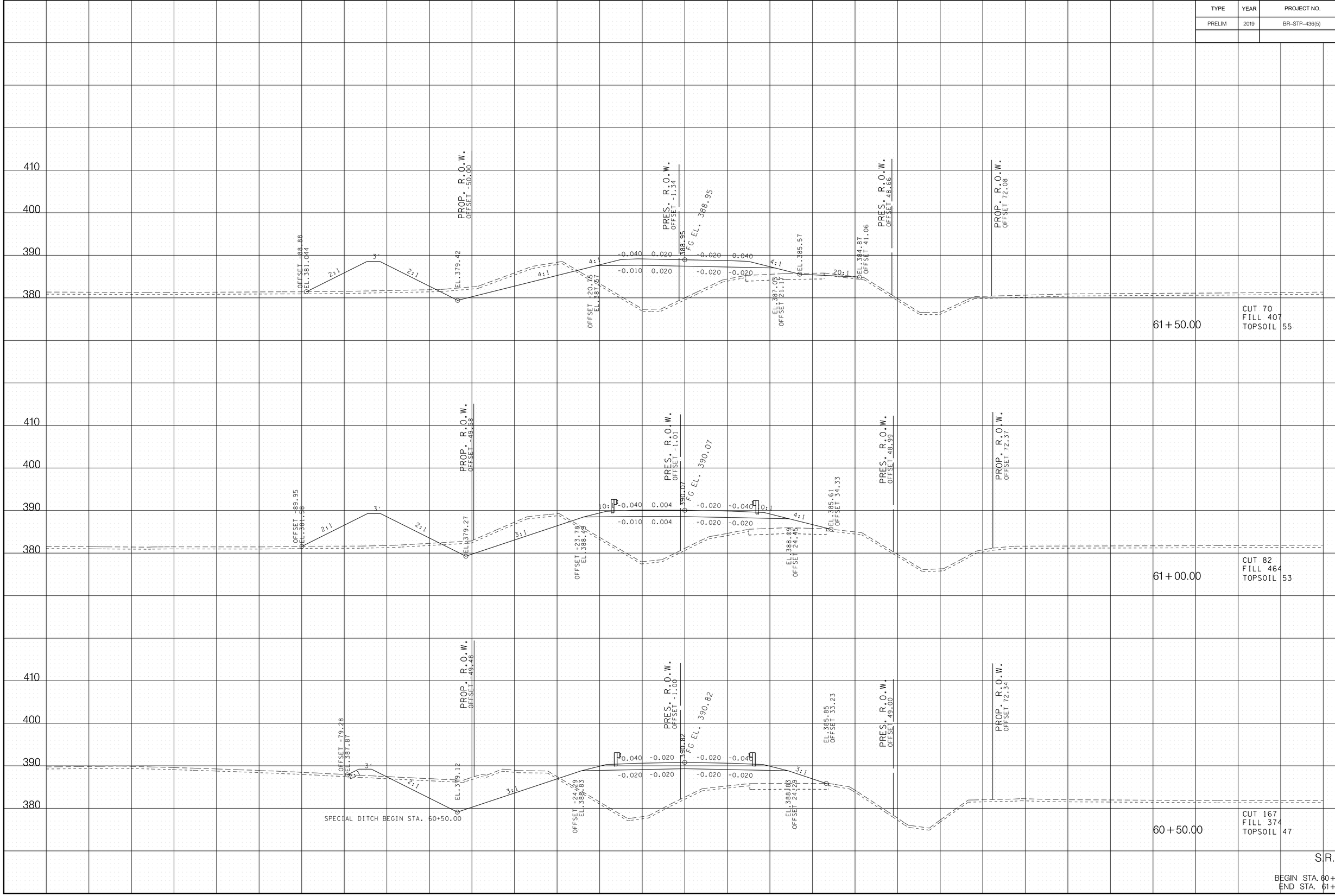
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	13



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	14

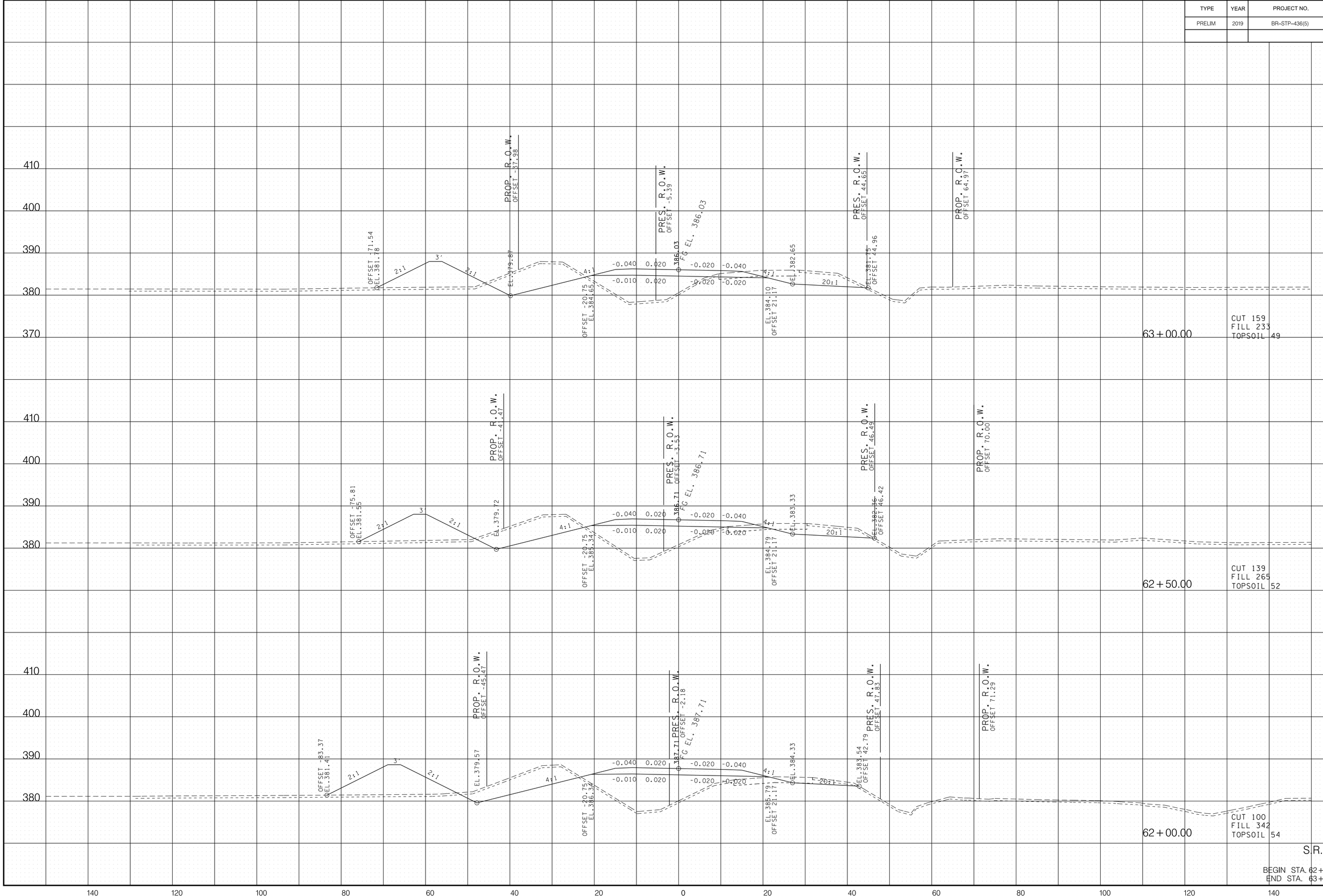


S.R. 436

BEGIN STA. 60+50.00
END STA. 61+50.00

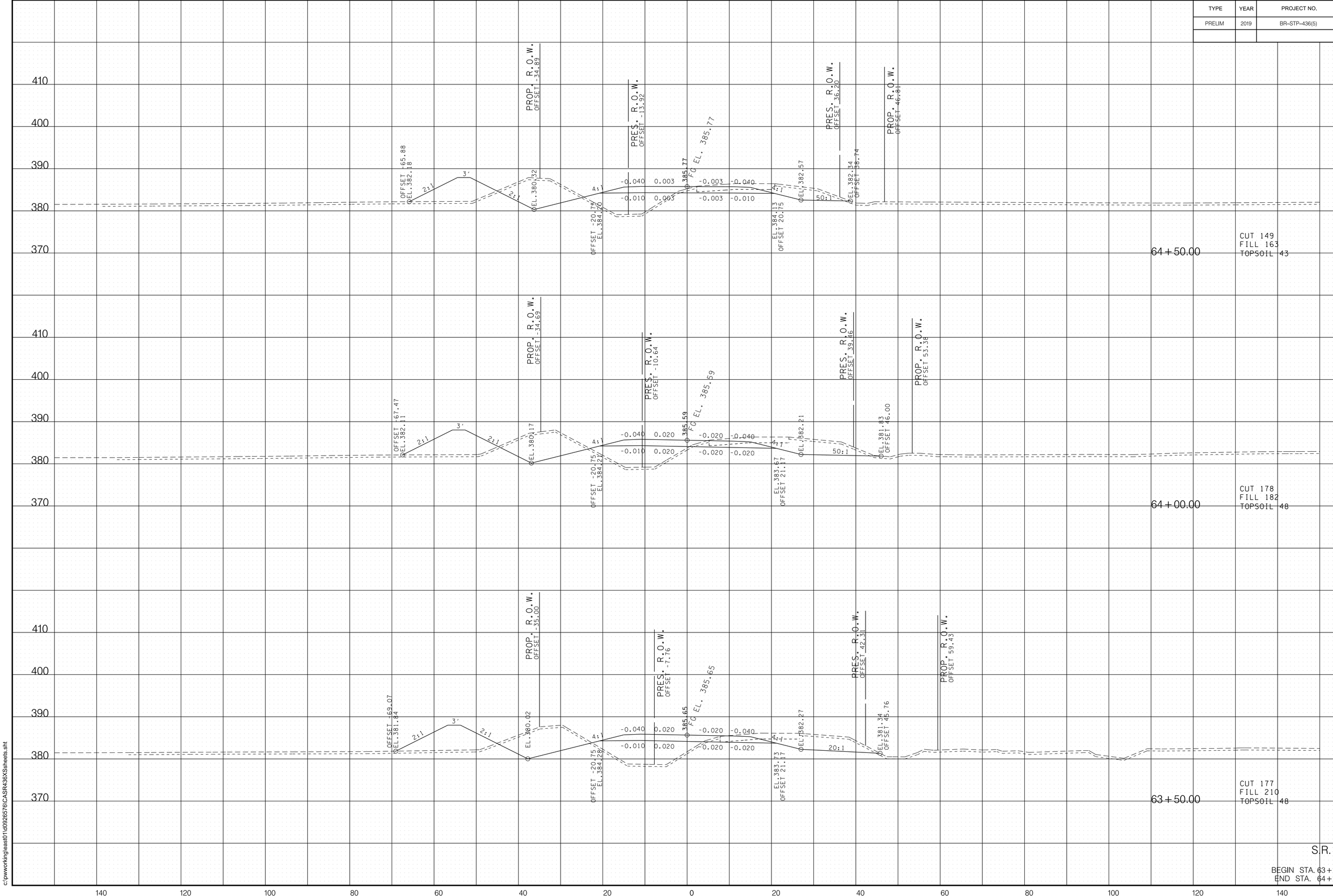
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	15



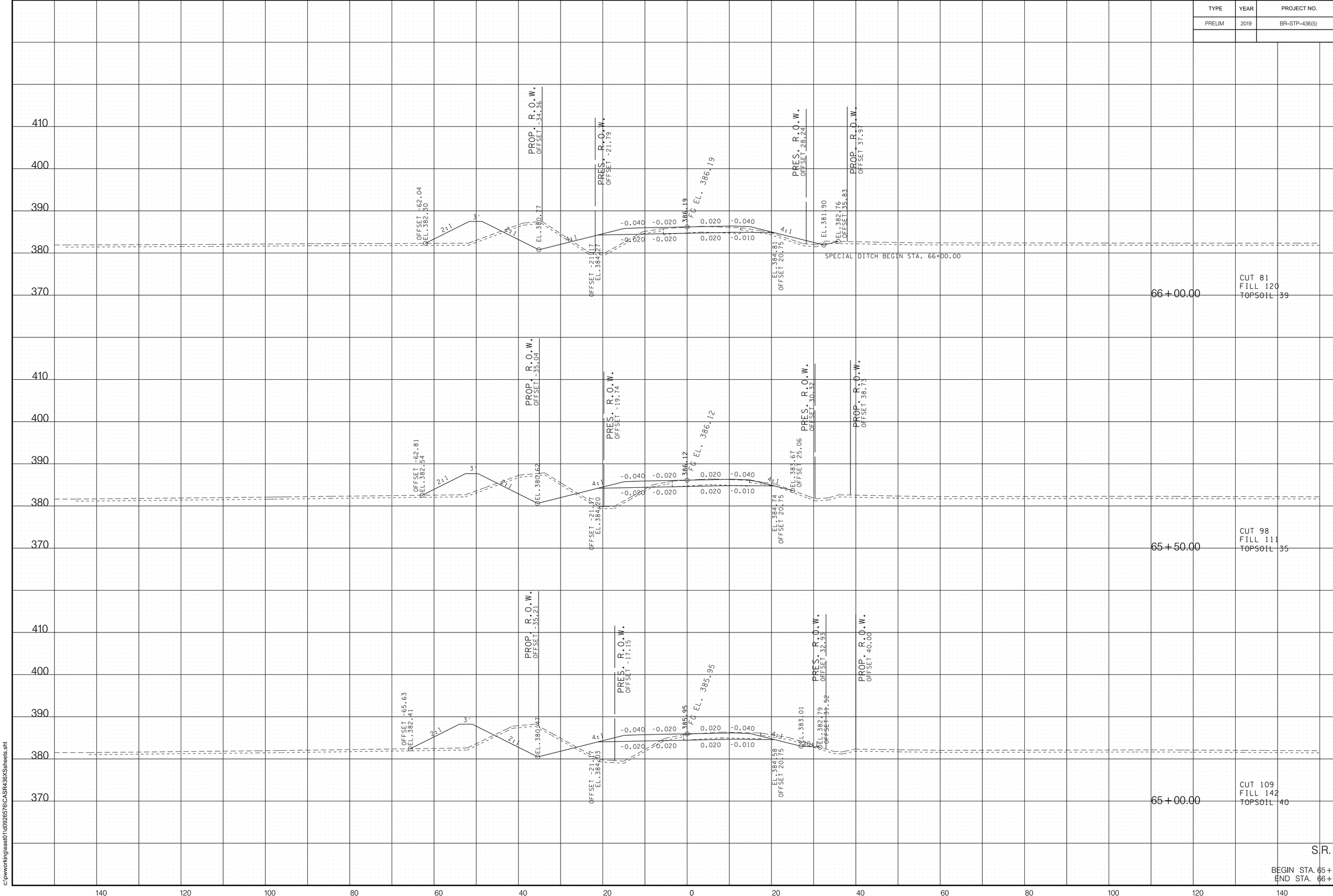
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	16



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	17

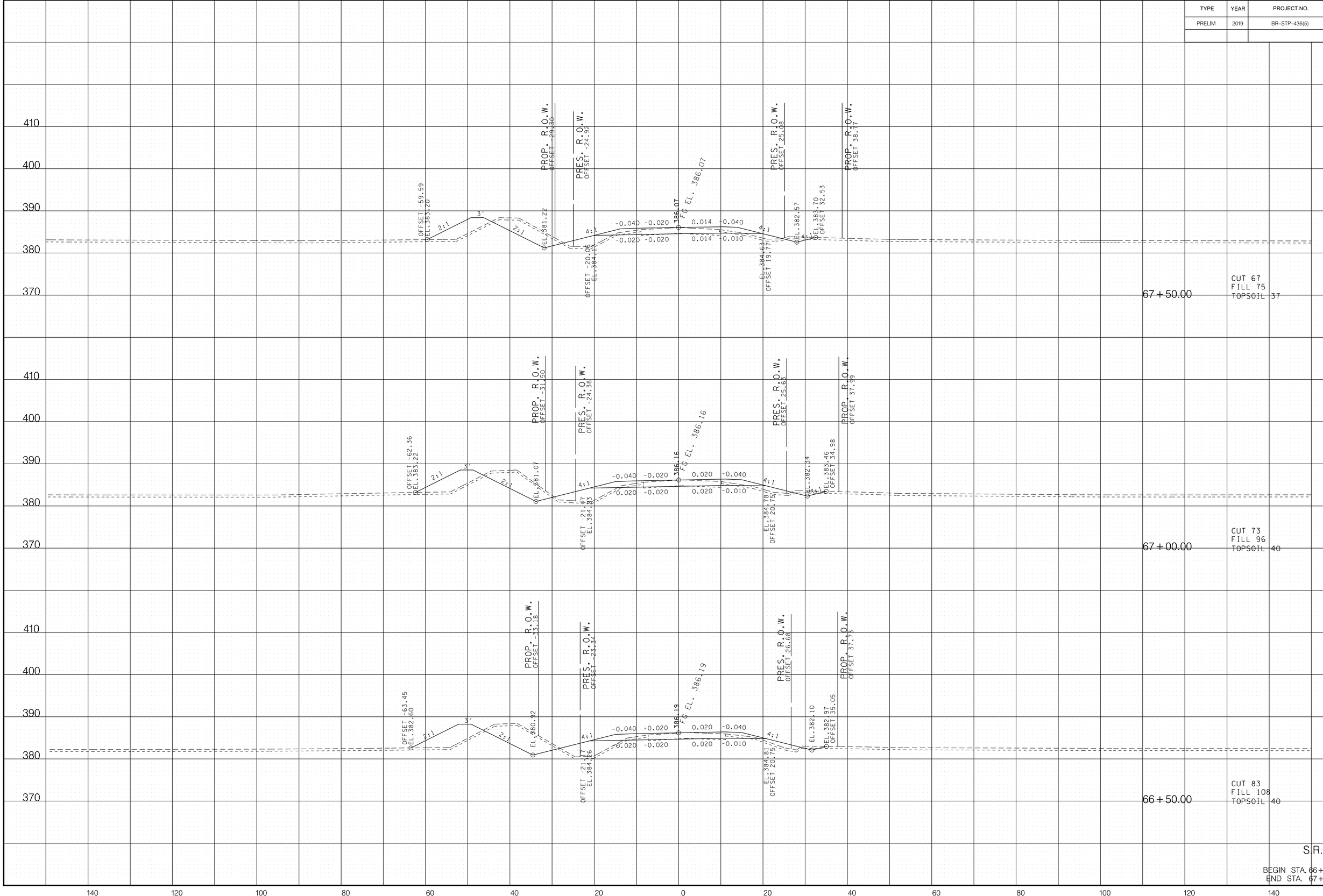


S.R. 436

BEGIN STA. 65+00.00
END STA. 66+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	18



S.R. 436

BEGIN STA. 66+50.00
END STA. 67+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-436(5)	19

PROP. R.O.W.
OFFSET -25.00

PRES. R.O.W.
OFFSET -25.00

PRES. R.O.W.
OFFSET -25.00

PROP. R.O.W.
OFFSET 25.00

PROP. R.O.W.
OFFSET -26.65

PRES. R.O.W.
OFFSET -25.00

PRES. R.O.W.
OFFSET 25.00

PROP. R.O.W.
OFFSET 40.00

OFFSET -55.20
EL. 383.25

2:1

3'

2:1

EL. 381.37

4:1

-0.040 -0.020

-0.020 -0.020

OFFSET -17.27
EL. 384.12

385.97
P.G. EL. 385.97

-0.011 -0.040

-0.011 -0.011

4:1

4:1

EL. 382.81

EL. 384.29
OFFSET 17.34

EL. 384.21
OFFSET 28.80

SPECIAL DITCH END STA. 68+00.00

SPECIAL DITCH END STA. 68+00.00

68+30.00

68+00.00

CUT 63
FILL 51
TOPSOIL 35

S.R. 436

BEGIN STA. 68+00.00
END STA. 68+30.00

410
400
390
380
370

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

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Index Of Sheets

PRELIMINARY INDEX OF SHEETS

TITLE SHEET 1
TYPICAL SECTIONS 2B
RIGHT-OF-WAY NOTES, UTILITY NOTES and UTILITY OWNERS 3
RIGHT-OF-WAY ACQUISITION TABLE(S) and PROPERTY MAP(S) 3A
PRESENT LAYOUT(S) 4
RIGHT OF WAY DETAILS 4A
PROPOSED LAYOUT(S) 4B
PROPOSED PROFILE(S) 4C
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE(S) 5
DRAINAGE MAP(S) 6
CULVERT SECTION(S) 7
ROADWAY CROSS SECTIONS 8-15

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES X	NO

TENN.	YEAR	SHEET NO.
	2019	1
FED. AID PROJ. NO.	BR-STP-193(11)	
STATE PROJ. NO.	24029-0207-94	

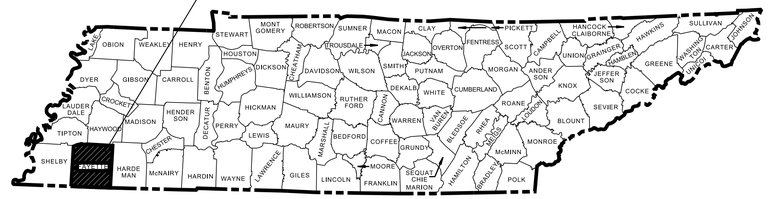
FAYETTE COUNTY

S.R. 193 (MACON RD.) BRIDGE REPLACEMENT
OVER BRANCH AT L.M. 11.48

PRELIMINARY

STATE HIGHWAY NO. 193 U.S. ROUTE NO.

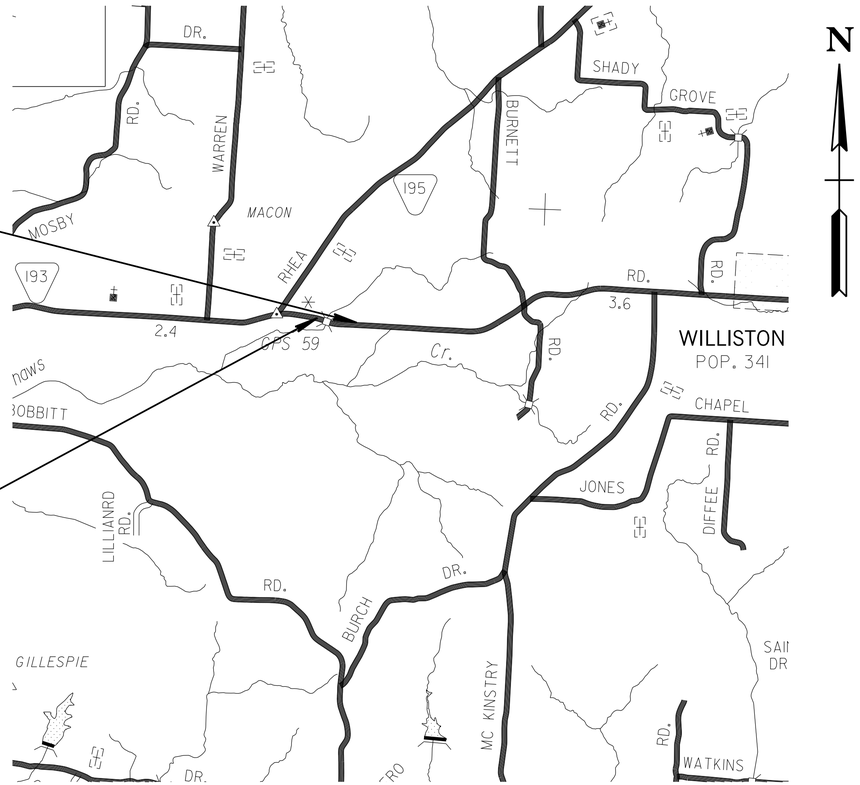
PROJECT LOCATION
BRIDGE ID. # 24015420001



NO EXCLUSIONS

24029-0207-94
END PROJECT NO. BR-STP-193(11) PRELIMINARY
STA. 33+40.00
N 317293.6523 E 940246.0523

24029-0207-94
BEGIN PROJECT NO. BR-STP-193(11) PRELIMINARY
STA. 28+00.00
N 317457.4133 E 939732.1443



R.O.W. LENGTH	0.102 MILES
ROADWAY LENGTH	0.102 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.009 MILES ▲
PROJECT LENGTH	0.102 MILES

▲ Not included in the project length (Non Riding Surface).

PRELIMINARY PLANS

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

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

DATE:

APPROVED: Clay Bright
CLAY BRIGHT, 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 : STEPHANIE KISSELL
DESIGNED BY : HDR ENGINEERING, INC.
DESIGNER : GREG CLUCKER CHECKED BY KEVIN CAGLE
P.E. NO. 24029-0207-94 (NEPA)
PIN NO. 128113.02

S.R. 193

SURVEY 02-14-18	TRAFFIC DATA	
	ADT (2022)	1540
	ADT (2042)	1730
	DHV (2042)	190
	D	65 - 35
	T (ADT)	4 %
	T (DHV)	3 %
	V	45 MPH

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

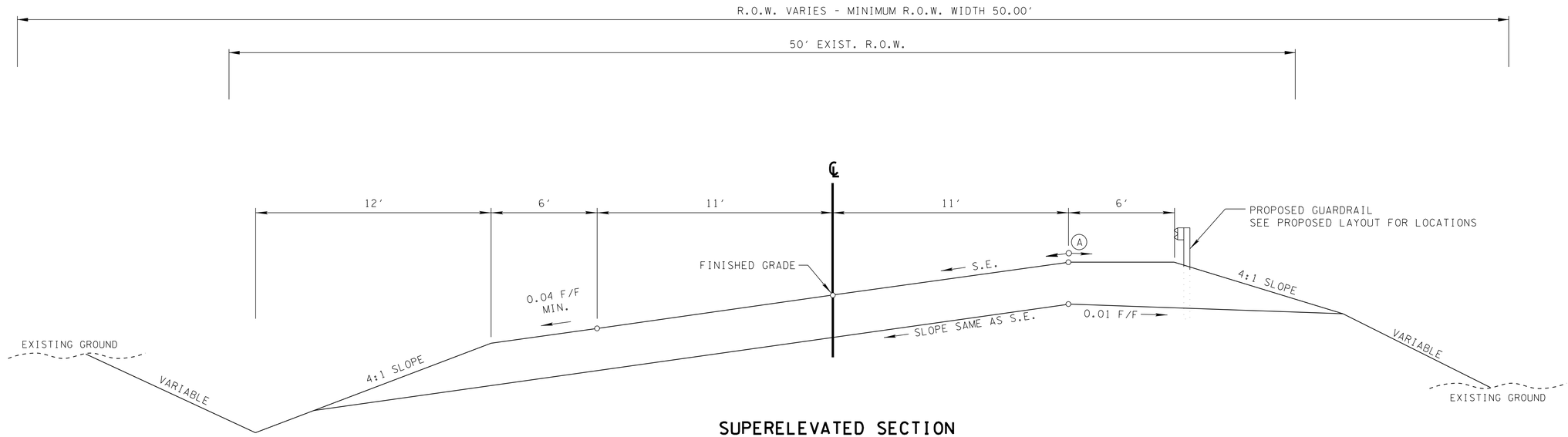
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	2B

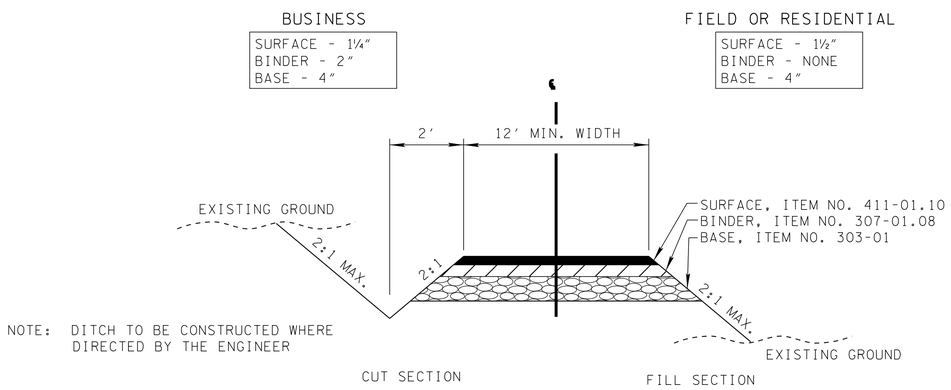


SUPERELEVATED SECTION

(BASED ON STD. DWG. RD11-TS-2)

STA. 28+00.00 TO STA. 28+90.00 (PAVEMENT TAPER)
STA. 28+90.00TO STA. 32+50.00
STA. 32+50.00 TO STA. 33+40.00 (PAVEMENT TAPER)

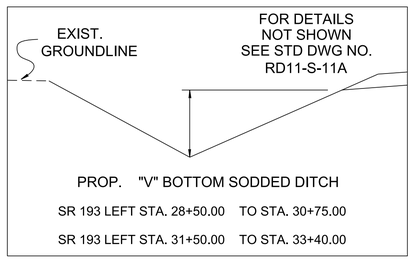
(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.

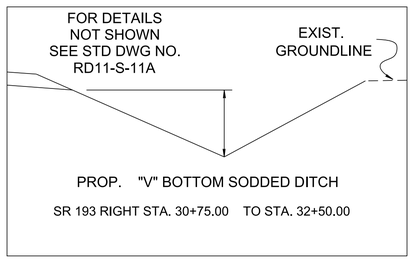


TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

SPECIAL DITCHES





CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	3

RIGHT-OF-WAY

(1) 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.

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

(3) 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.

(4) 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.

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

(6) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(7) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

UTILITY

(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 ITS 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 OWNERS

CABLE:

AT&T - JACKSON
315 EAST COLLEGE ST.
JACKSON, TN 38301
CONTACT: COREY BARTHOLOMEW
OFFICE PHONE: 731 423 0521
CELL PHONE:
Email:

ELECTRIC:

CHICKASAW ELECTRIC COOPERATIVE
17970 HWY 64 EAST
SOMERVILLE, TN 38068
CONTACT: LLOYD MUNCY
OFFICE PHONE: 901 465 3591
CELL PHONE:
Email:

GAS:

SOMERVILLE LIGHT, GAS & WATER
13085 NORTH MAIN ST.
SOMERVILLE, TN 38068
CONTACT: AUSTIN EDMUNDSON
OFFICE PHONE: 901 465 7300
CELL PHONE:
Email:

TELEPHONE:

AT&T - JACKSON
315 EAST COLLEGE ST.
JACKSON, TN 38301
CONTACT: COREY BARTHOLOMEW
OFFICE PHONE: 731 423 0521
CELL PHONE:
Email:

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

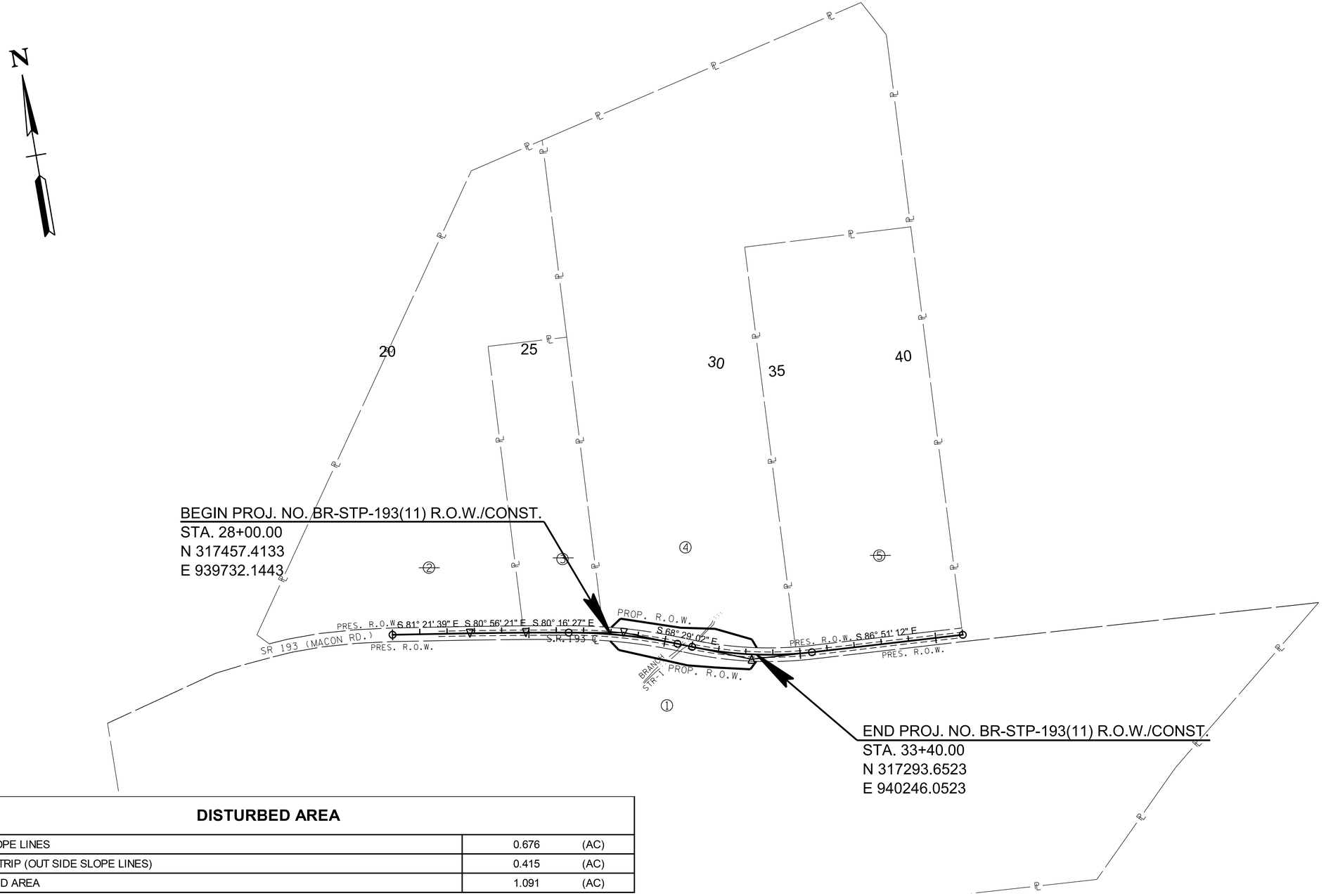
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	3A



DISTURBED AREA

IN BETWEEN SLOPE LINES	0.676	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	0.415	(AC)
TOTAL DISTURBED AREA	1.091	(AC)

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BOOK	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION	AIR RIGHTS
1	Senter Cawthon Crook, Jere Lawrence Crook, III,		9	060	06010		167.410	167.410		0.441	0.441		166.969				
	Russell E. Bloodworth, and John S. Evans, Trustees																
~~2~~	~~Sherry B. Clayton~~		~~29.04~~	~~423~~	~~175~~		~~24.600~~	~~24.600~~					~~24.600~~				
~~3~~	~~Jacquelyn Simons~~		~~29.07~~	~~170~~	~~00865~~		~~7.170~~	~~7.170~~					~~7.170~~				
4	Shirley F. Hailey		29.03	641	124	42.370		42.370	0.459		0.459	41.911					
~~5~~	~~Rickey D. Hailey Sr and wife, Pamela J.~~		~~29.02~~	~~642~~	~~370~~		~~21.200~~	~~21.200~~					~~21.200~~				
ACQUISITION TOTALS (ACRES)										0.900							

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP
AND
RIGHT-OF-WAY
ACQUISITION
TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	4

REV. 01-22-20: REVISED PROPOSED CURVE TRANSITION LENGTHS AND TOES OF SLOPE.

SR 193
PI 28+47.18
N 317,455.4183
E 939,779.8372
Δ 11° 47′ 25″ (RT)
D 2° 56′ 18″
R 1,950.00
L 401.27
T 201.35
SE 0.046 FT/FT
DESIGN SPEED 45 MPH
TRANS. LENGTH SEE PROFILE

SR 193
PI 33+24.74
N 317,279.7464
E 940,225.4387
Δ 18° 22′ 10″ (LT)
D 4° 09′ 42″
R 1,376.72
L 441.39
T 222.60
SE 0.058 FT/FT
DESIGN SPEED 45 MPH
TRANS. LENGTH SEE PROFILE

④
SHIRLEY F. HAILEY

⑤
RICKEY D. HAILEY, SR.
AND WIFE,
PAMELA J. HAILEY

③
JACQUELINE SIMONS

②
SHERRY B.
CLAYTON

25
30
35

PI 24+88.74
PC 31+02.14
PT 35+43.57

PASTURE
WOODED
AGRICULTURE

18"CMP
FLin-407.95
FLout-407.52

18"CMP
FLin-406.88
FLout-407.03

BEGIN EX. BRIDGE
30+57.61

2 SPAN, CONC.
BEAM BRIDGE
NO. 24015420001

END EX. BRIDGE
30+94.90

64' OF PROP. 2 @
18'X9' RCBB
STA. 30+77.00
SKEW 45°

BRIDGE
WT.LIMIT

UNPAVED/UNUSED
FIELD ENTRANCE

TOP OF CUT

STOCK FENCE

GATE

GRAVEL

TPOST

EIP

WOODSTAKE

EIP
REBAR

PRES. R.O.W.

S.R. 193 ℄

SR 193 (MACON RD.) (ASPHALT)

S 80° 56′ 21″ E

S 80° 16′ 27″ E

S 88° 28′ 02″ E

S 86° 51′ 12″ E

CP-S2
24-193-02

CP-S1
24-193-01

GRVL

TBM #1
SPEED
LIMIT
45

TBM #2
RRSPIKE

TRAV-S1
TRAV-S2
TRAV-S3
TRAV-S4
TRAV-S5
TRAV-S6

WWC-1

FL12RCP
FLin-405.17
INV-405.17

FLOW LINE (UNPAVED)

BEGIN PROJ. NO. BR-STP-193(11) R.O.W./CONST.
STA. 28+00.00
N 317457.4133
E 939732.1443

END PROJ. NO. BR-STP-193(11) R.O.W./CONST.
STA. 33+40.00
N 317293.6523
E 940246.0523

PC 26+45.84
PT 30+47.11

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S1	317500.2700	939374.6900	408.63	24+40.00	23.67′ (RT)
S2	317450.7900	939687.3800	406.65	27+57.87	16.99′ (RT)
S3	317351.5100	940088.5600	406.99	31+71.86	14.81′ (LT)
S4	317302.6300	940315.3800	407.19	34+07.16	21.14′ (LT)
S5	317279.8500	940578.9100	410.70	36+73.85	19.51′ (LT)
S6	317356.4300	939972.6300	399.79	30+61.43	21.38′ (RT)

①
SENTER CAWTHON CROOK,
JERE LAWRENCE CROOK, III,
RUSSELL E. BLOODWORTH,
AND JOHN S. EVANS, TRUSTEES

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

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COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

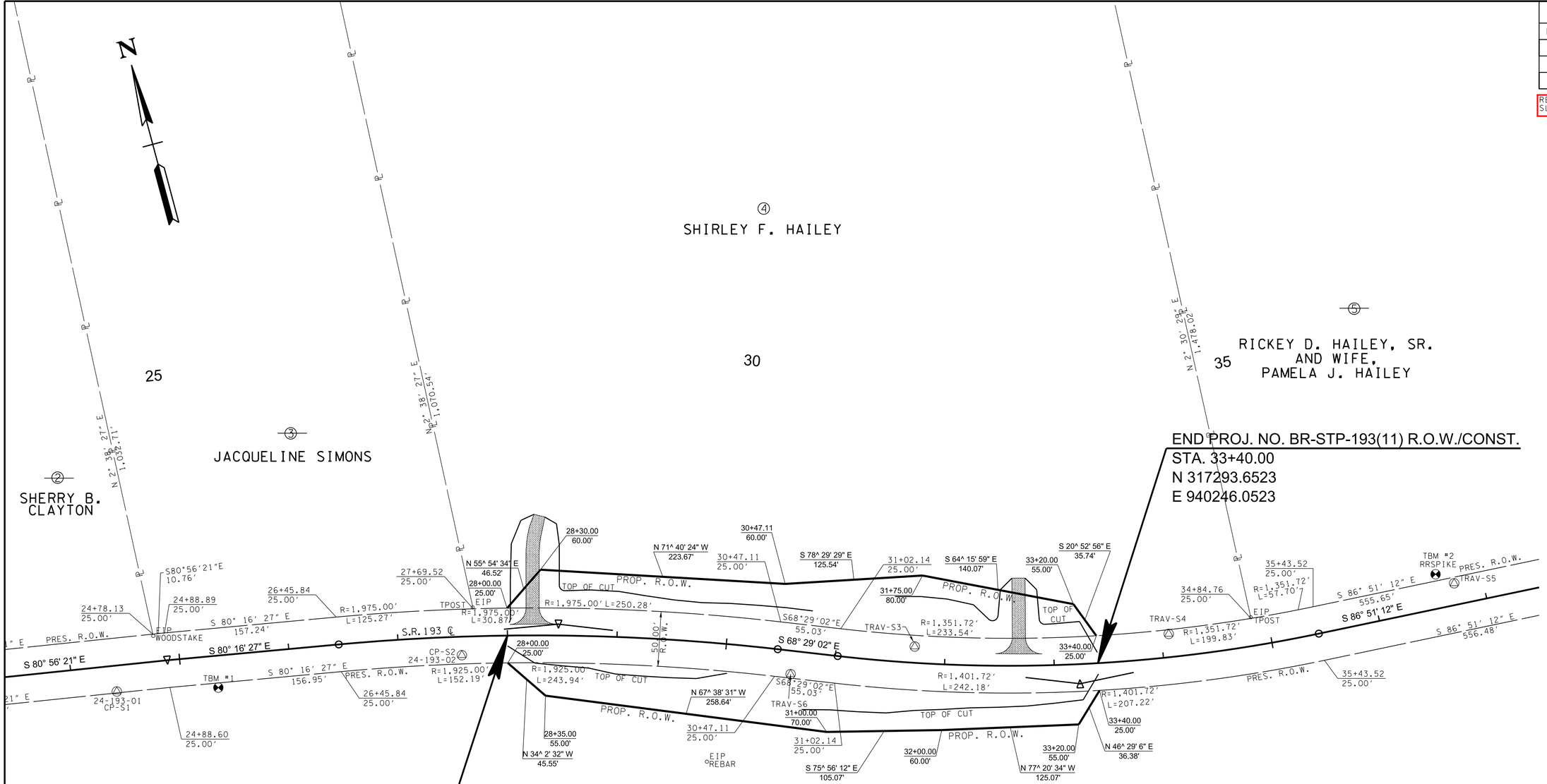
PRESENT LAYOUT

STA. 28+00 TO STA. 33+40
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	4A

REV. 01-22-20: REVISED TOES OF SLOPE.



END PROJ. NO. BR-STP-193(11) R.O.W./CONST.
STA. 33+40.00
N 317293.6523
E 940246.0523

BEGIN PROJ. NO. BR-STP-193(11) R.O.W./CONST.
STA. 28+00.00
N 317457.4133
E 939732.1443

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S4	317302.6300	940315.3800	407.19	34+07.16	21.14' (LT)
S5	317279.8500	940578.9100	410.70	36+73.85	19.51' (LT)
S6	317356.4300	939972.6300	399.79	30+61.43	21.38' (RT)

① SENTER CAWTHON CROOK, JERE LAWRENCE CROOK, III, RUSSELL E. BLOODWORTH, AND JOHN S. EVANS, TRUSTEES

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

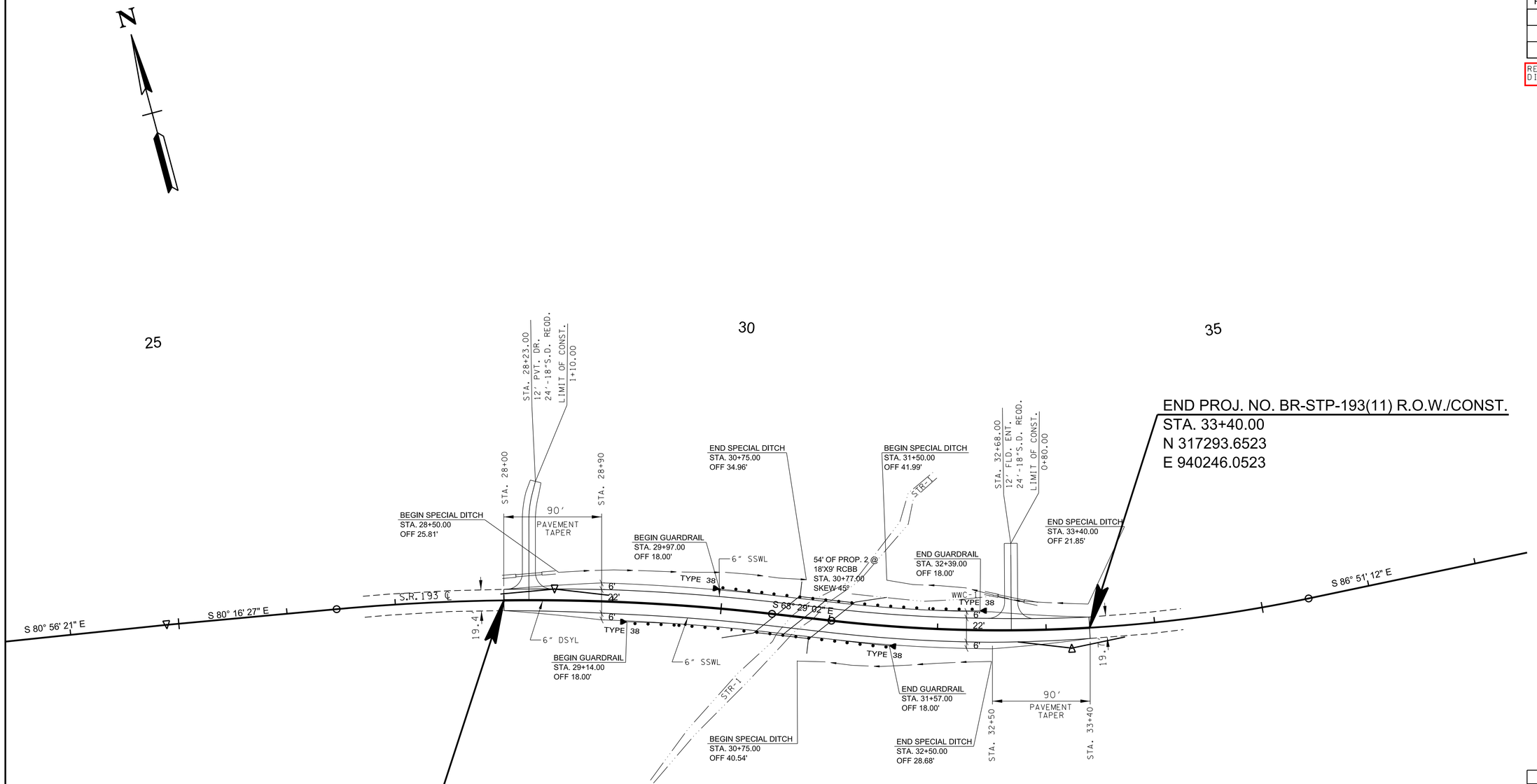
RIGHT OF WAY DETAILS

STA. 28+00 TO STA. 33+40
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	4B

REV. 01-22-20: REVISED SPECIAL DITCHES.



CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 28+00 TO STA. 33+40
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	4C

REV. 01-22-20: REVISED OVERTOPPING ELEVATION. REVISED 10-YEAR DESIGN STORM ELEVATION IN PROFILE. REVISED Q100 HEADWATER ELEVATION AND Q10 AND Q100 VELOCITIES. REVISED SUPERELEVATION TRANSITION TABLE.

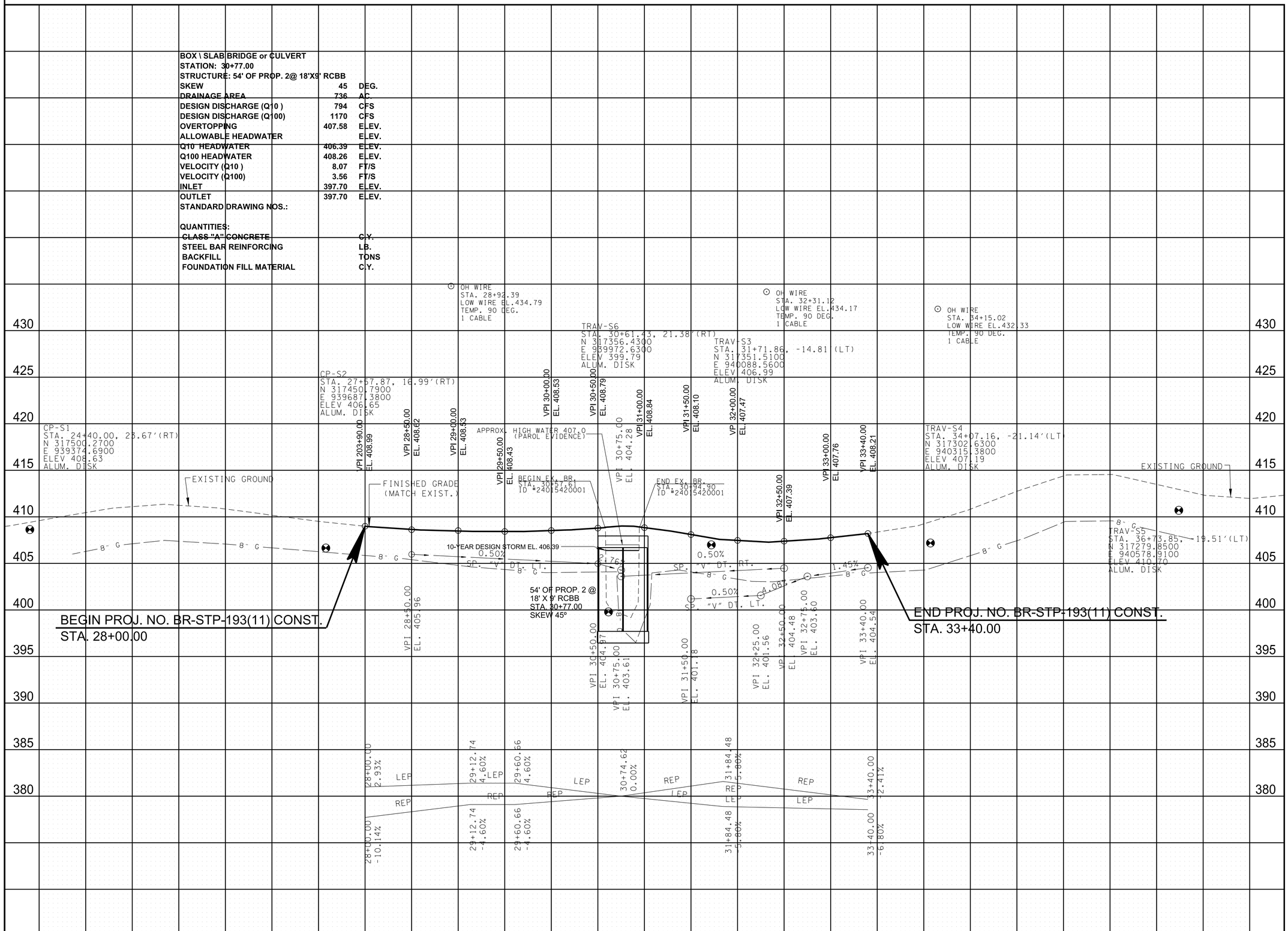
BOX \ SLAB BRIDGE or CULVERT
STATION: 30+77.00
STRUCTURE: 54' OF PROP. 2@ 18'X9' RCBB

SKEW	45	DEG.
DRAINAGE AREA	736	AC.
DESIGN DISCHARGE (Q10)	794	CFS
DESIGN DISCHARGE (Q100)	1170	CFS
OVERTOPPING	407.58	ELEV.
ALLOWABLE HEADWATER		ELEV.
Q10 HEADWATER	406.39	ELEV.
Q100 HEADWATER	408.26	ELEV.
VELOCITY (Q10)	8.07	FT/S
VELOCITY (Q100)	3.56	FT/S
INLET	397.70	ELEV.
OUTLET	397.70	ELEV.

STANDARD DRAWING NOS.:

QUANTITIES:

CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
BACKFILL	TONS
FOUNDATION FILL MATERIAL	C.Y.



CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

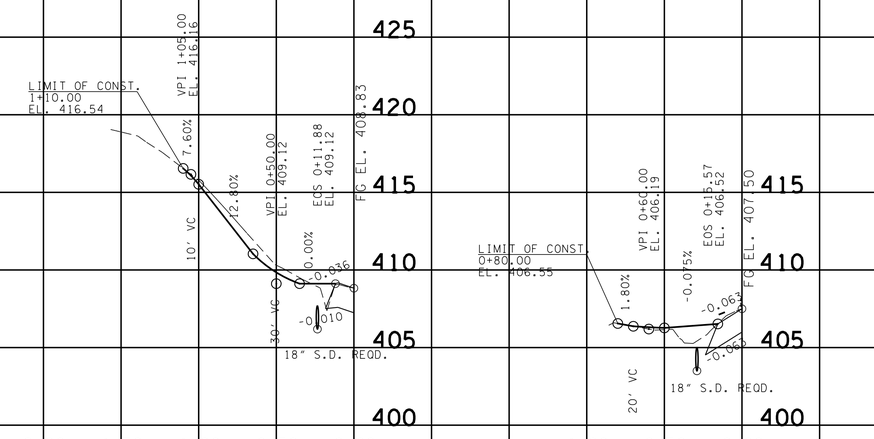
PROPOSED PROFILE

STA. 28+00 TO STA. 33+40

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	5



12' PVT. DR. LT. 28+23.00
S.R. 193
TRACT NO. 4

12' FLD. ENT. LT. 32+68.00
S.R. 193
TRACT NO. 4

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

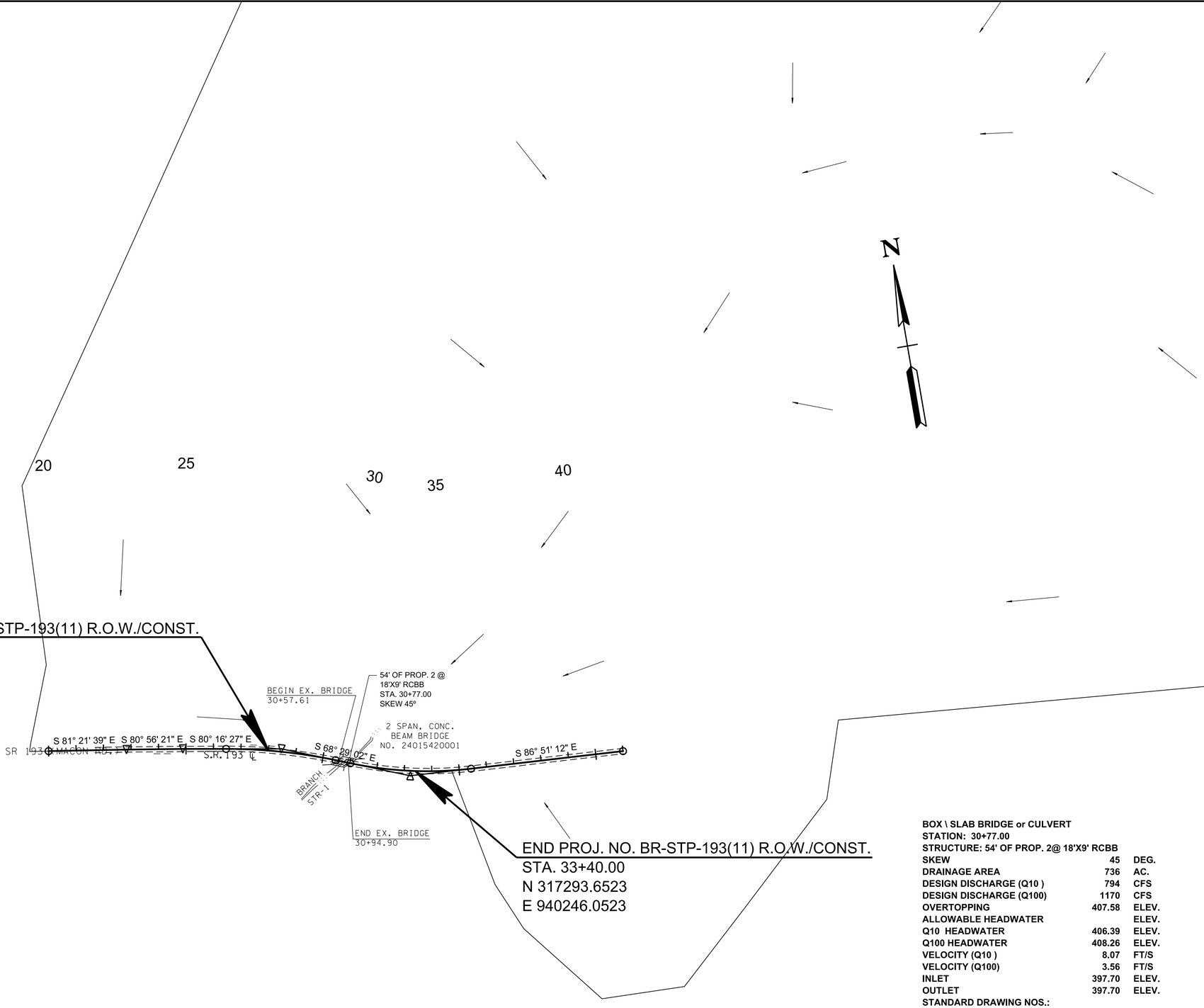
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	6

REV. 01-22-20: REVISED OVERTOPPING ELEVATION. REVISED Q100 HEADWATER ELEVATION AND Q10 AND Q100 VELOCITIES.



BOX \ SLAB BRIDGE or CULVERT		
STATION: 30+77.00		
STRUCTURE: 54' OF PROP. 2@ 18'X9' RCBB		
SKEW	45	DEG.
DRAINAGE AREA	736	AC.
DESIGN DISCHARGE (Q10)	794	CFS
DESIGN DISCHARGE (Q100)	1170	CFS
OVERTOPPING	407.58	ELEV.
ALLOWABLE HEADWATER		ELEV.
Q10 HEADWATER	406.39	ELEV.
Q100 HEADWATER	408.26	ELEV.
VELOCITY (Q10)	8.07	FT/S
VELOCITY (Q100)	3.56	FT/S
INLET	397.70	ELEV.
OUTLET	397.70	ELEV.
STANDARD DRAWING NOS.:		

QUANTITIES:	
CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
BACKFILL	TONS
FOUNDATION FILL MATERIAL	C.Y.

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

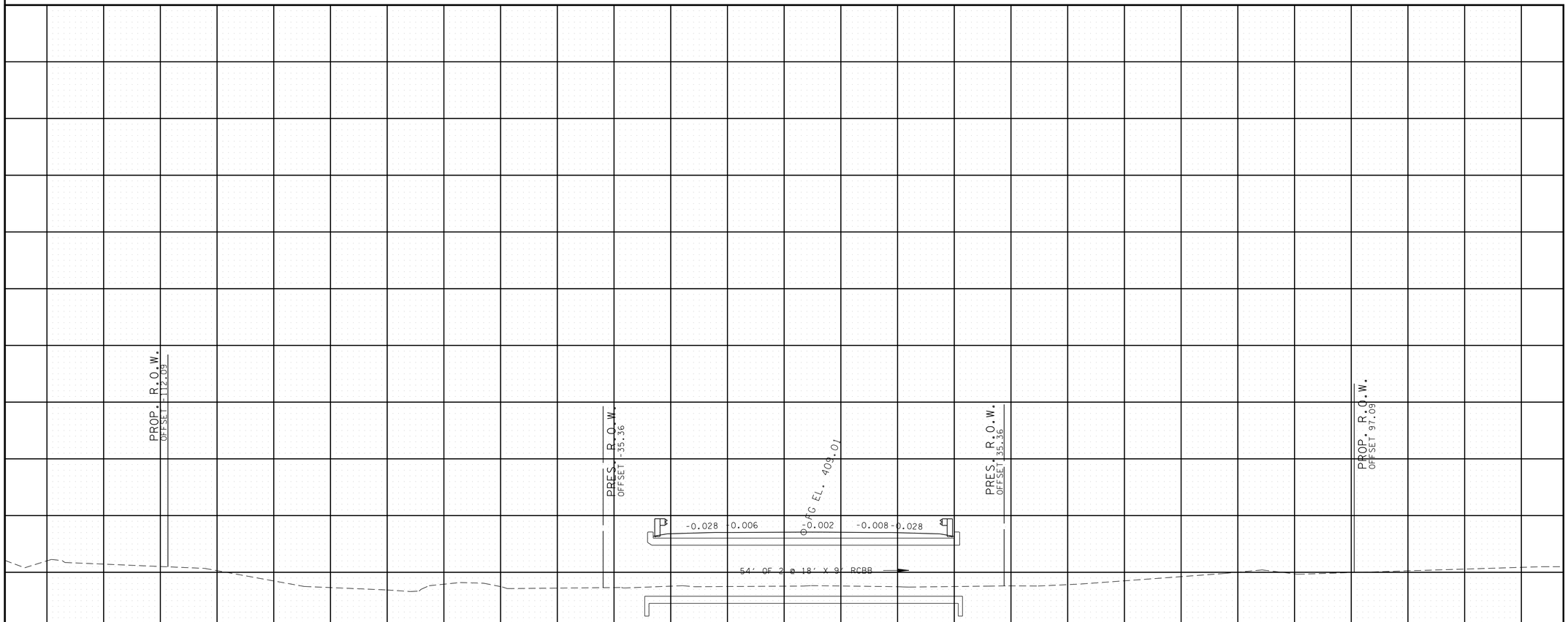
DRAINAGE MAP

STA. 28+00 TO STA. 33+40
SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	7

REV. 01-22-20: REVISED OVERTOPPING ELEVATION. REVISED Q100 HEADWATER ELEVATION AND Q10 AND Q100 VELOCITIES. REVISED SUPERELEVATION TRANSITION AT CULVERT CROSSING.



BOX \ SLAB BRIDGE or CULVERT
STATION: 30+77.00
STRUCTURE: 54' OF 2 @ 18' X 9' RCBB

SKEW	45	DEG.
DRAINAGE AREA	736	AC.
DESIGN DISCHARGE (Q10)	794	CFS
DESIGN DISCHARGE (Q100)	1170	CFS
OVERTOPPING	407.58	ELEV.
ALLOWABLE HEADWATER		ELEV.
Q10 HEADWATER	406.39	ELEV.
Q100 HEADWATER	408.26	ELEV.
VELOCITY (Q10)	8.07	FT/S
VELOCITY (Q100)	3.56	FT/S
INLET	397.70	ELEV.
OUTLET	397.70	ELEV.
STANDARD DRAWING NOS.:		

QUANTITIES:

CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
BACKFILL	TONS
FOUNDATION FILL MATERIAL	C.Y.

SR193
30+77.00

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

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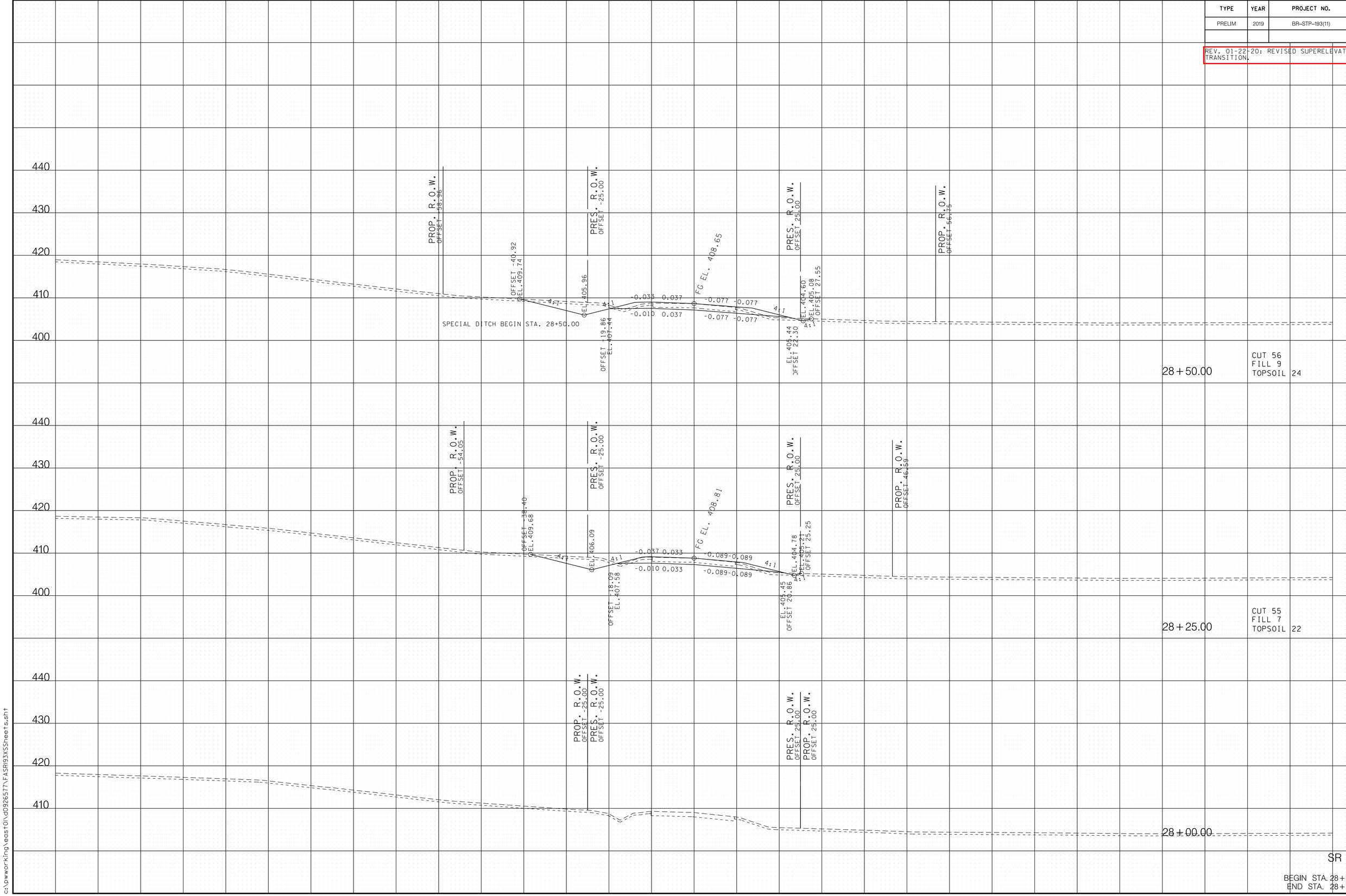
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	8

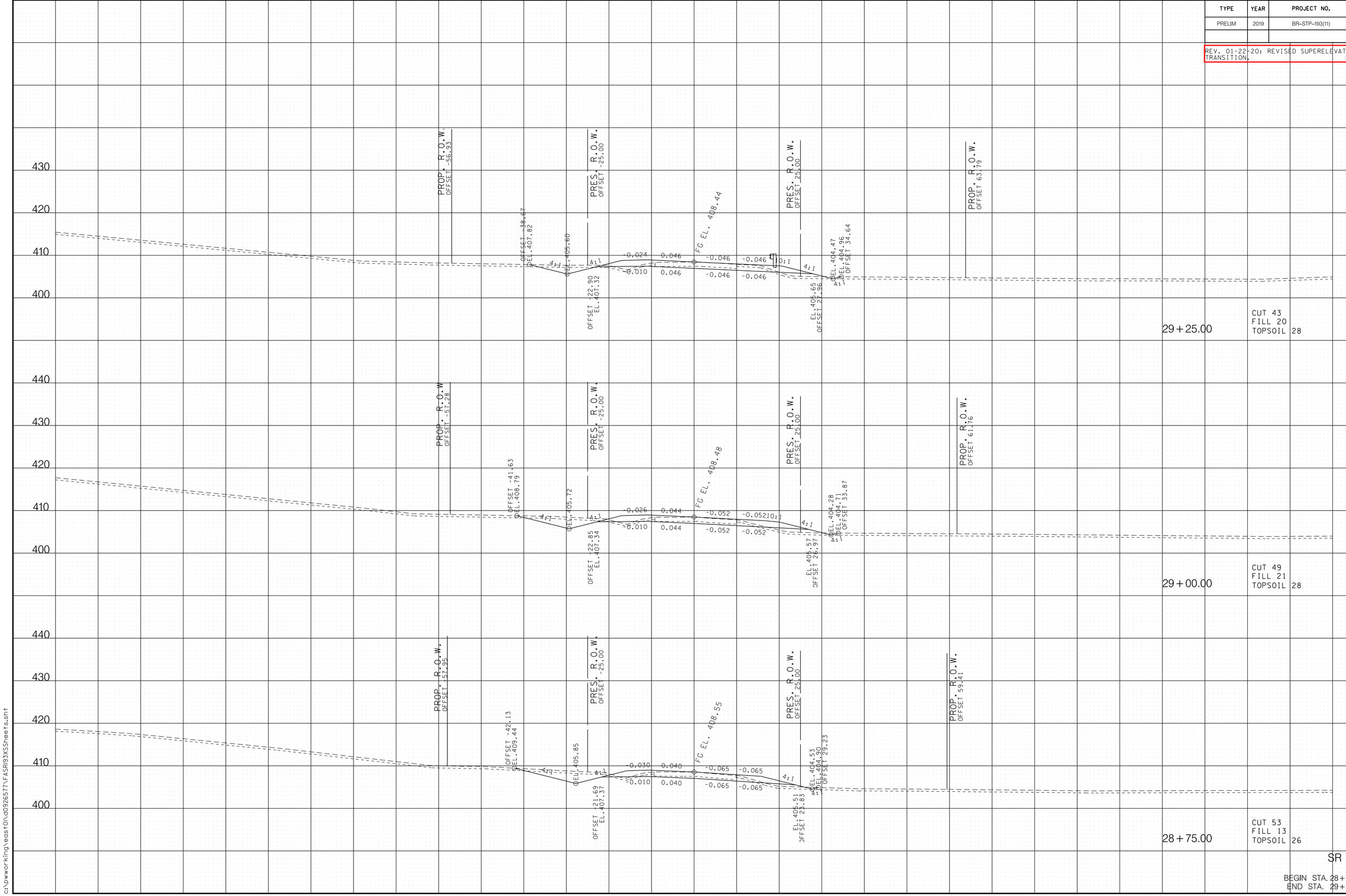
REV. 01-22-20: REVISED SUPERELEVATION TRANSITION.



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	9

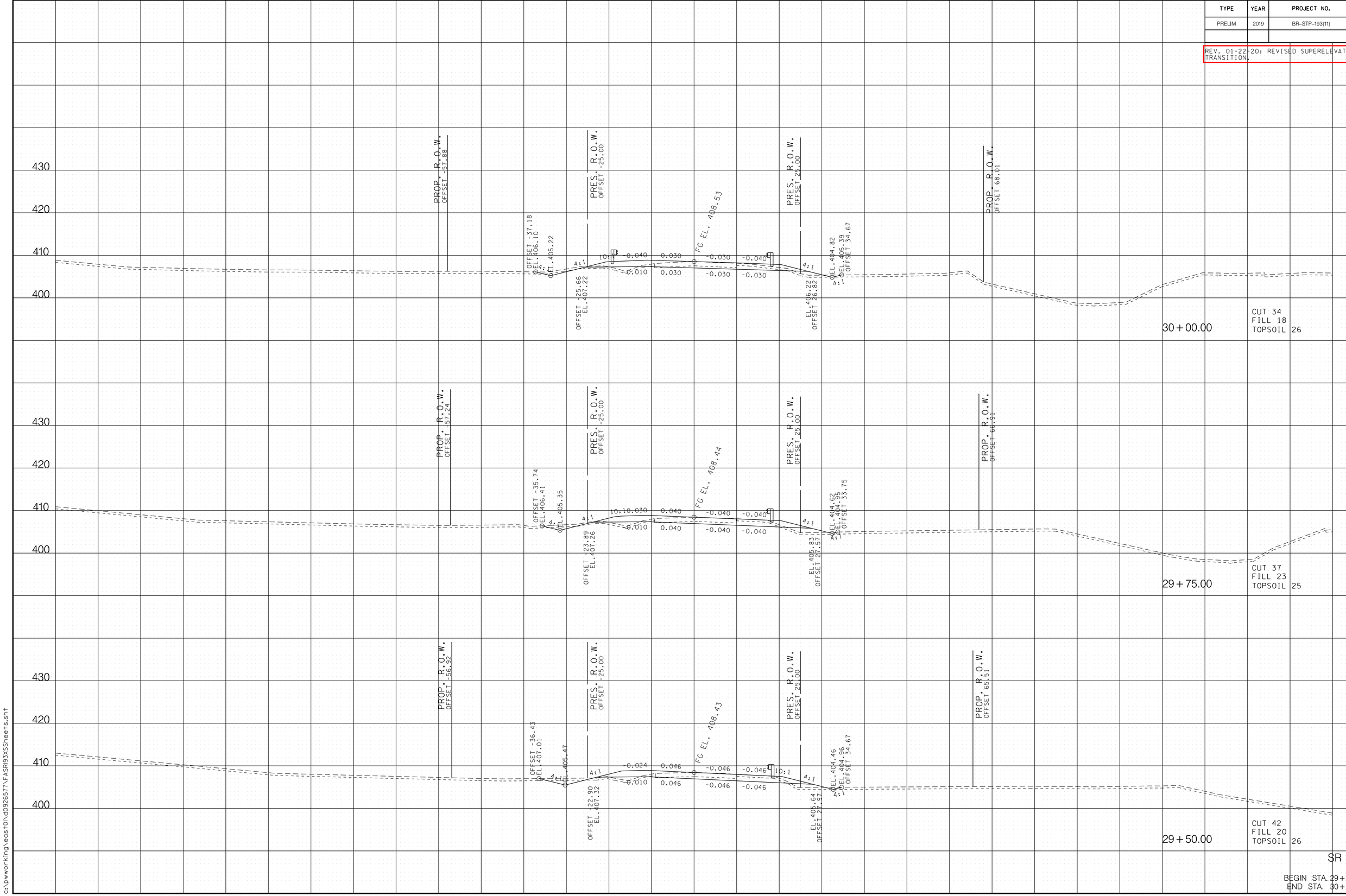
REV. 01-22-20: REVISED SUPERELEVATION TRANSITION.



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	10

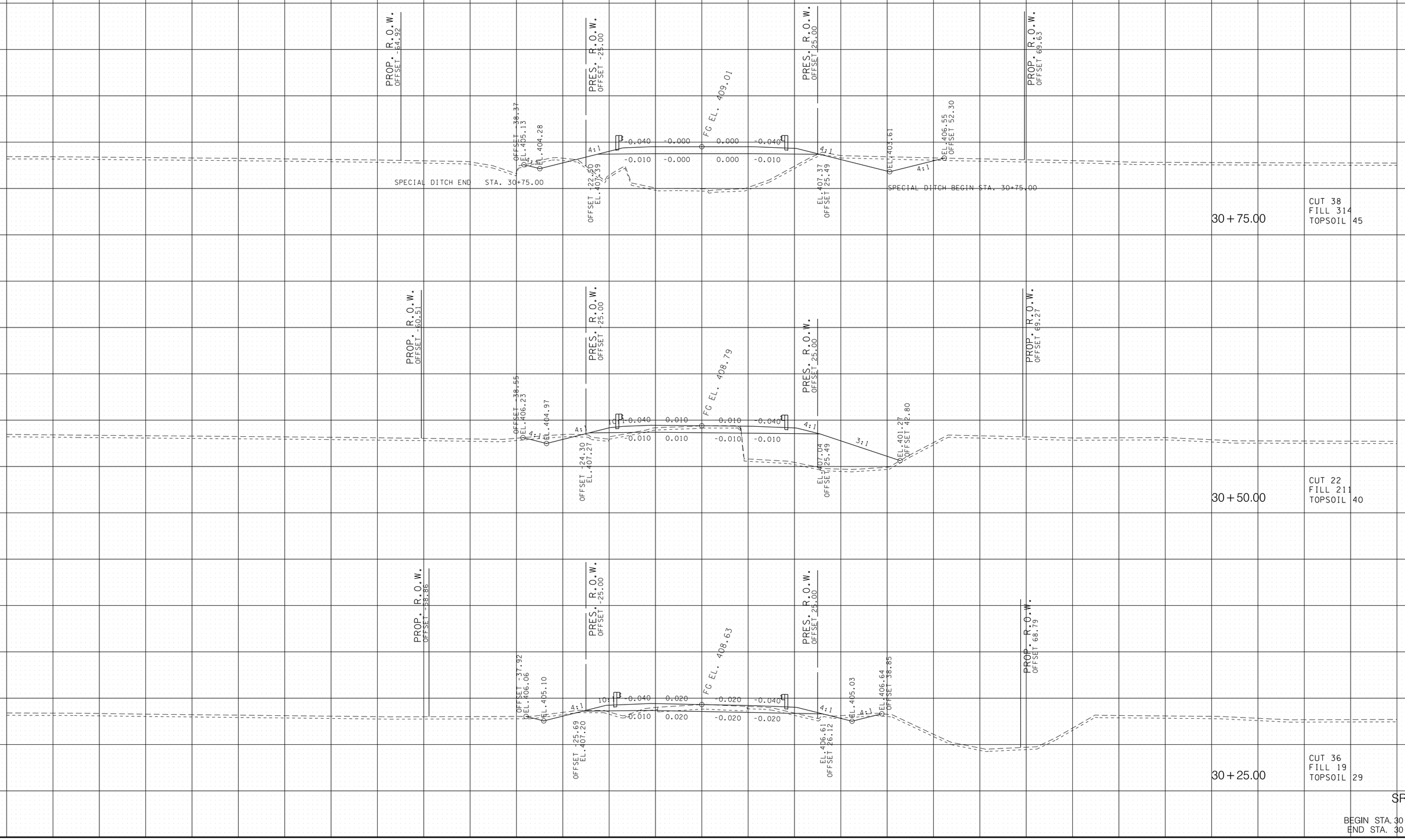
REV. 01-22-20: REVISED SUPERELEVATION TRANSITION.



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	11

REV. 01-22-20: REVISED SUPERELEVATION TRANSITION.



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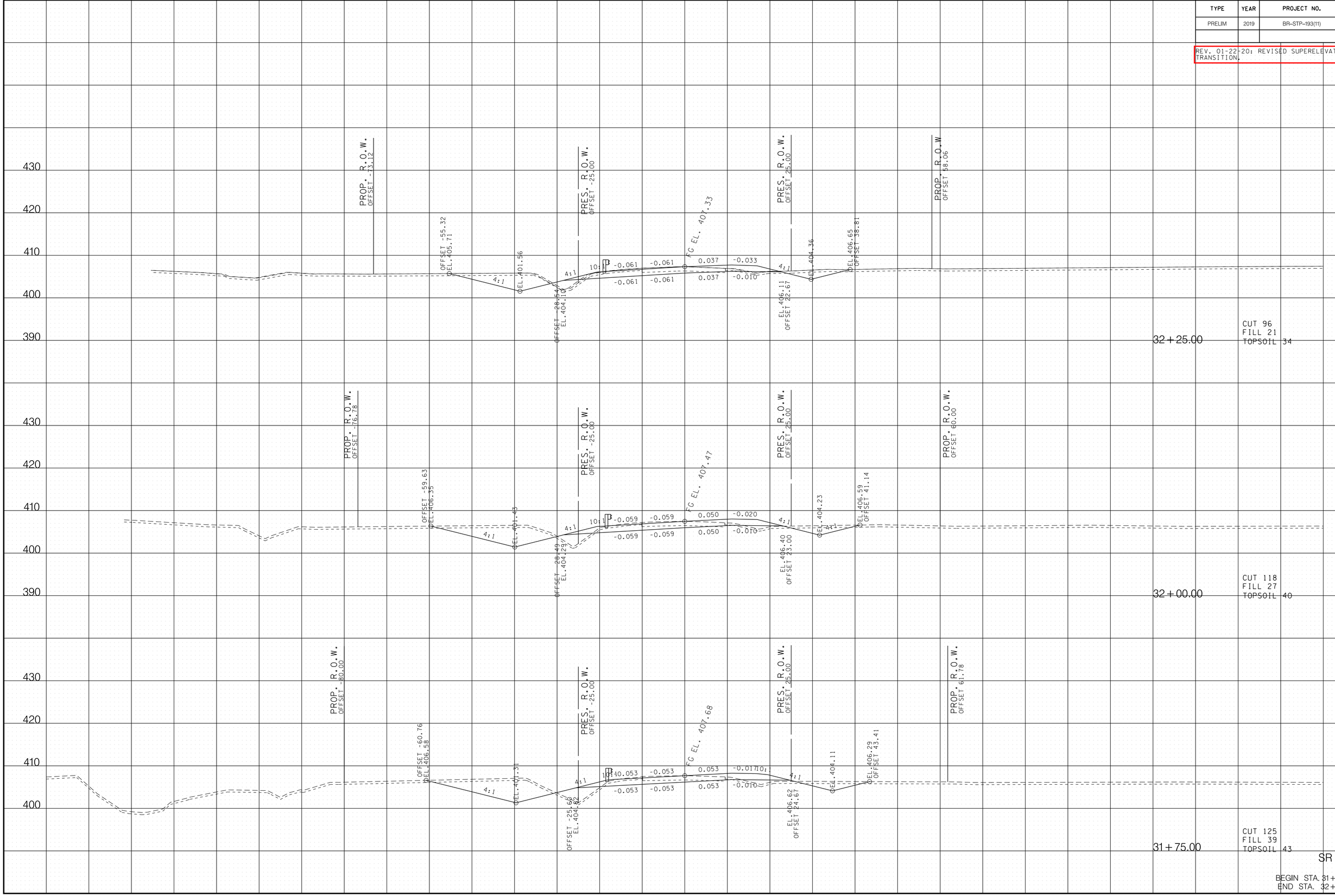
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	12

REV. 01-22-20: REVISED SUPERELEVATION TRANSITION.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	13

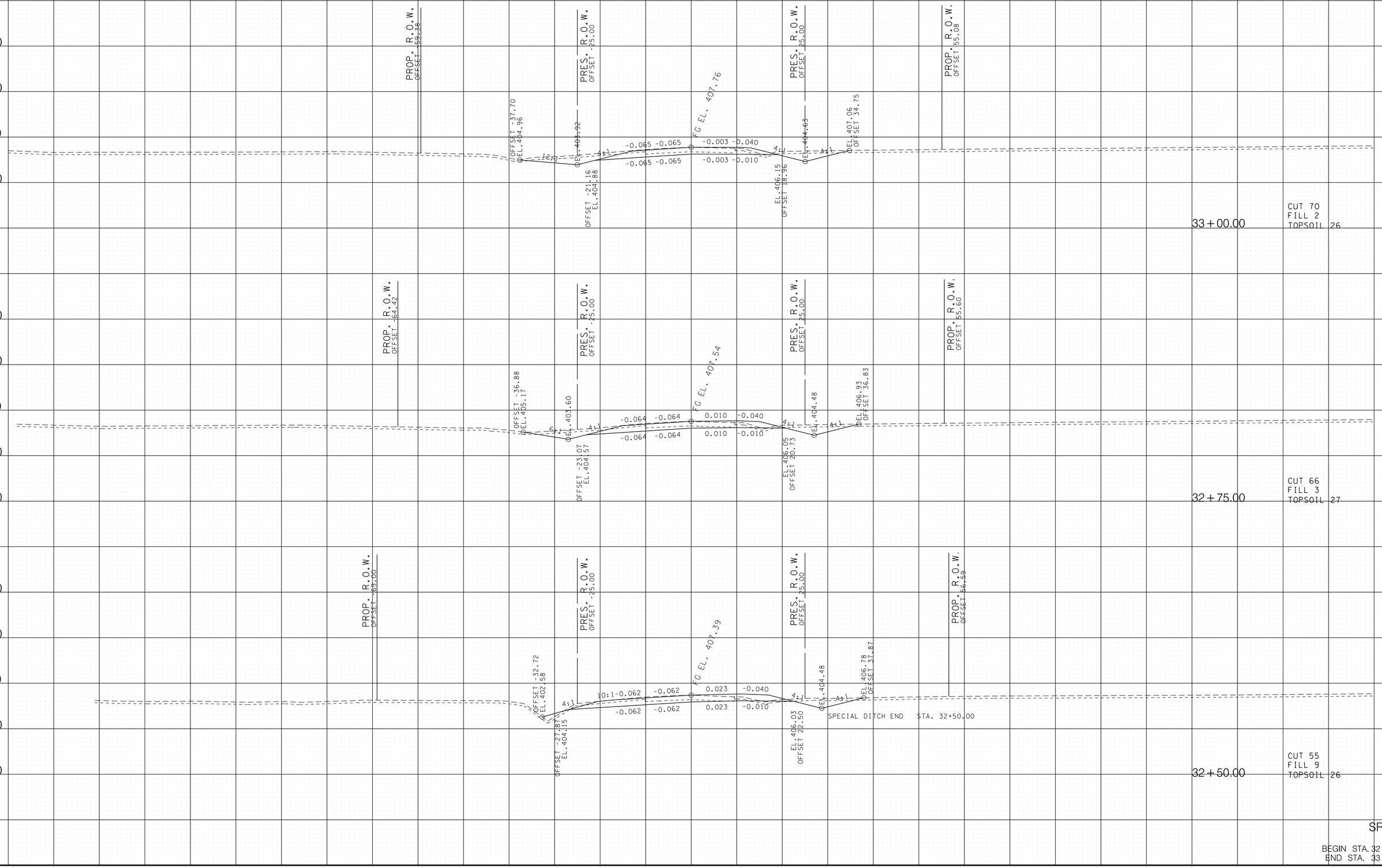
REV. 01-22-20: REVISED SUPERELEVATION TRANSITION.



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	14

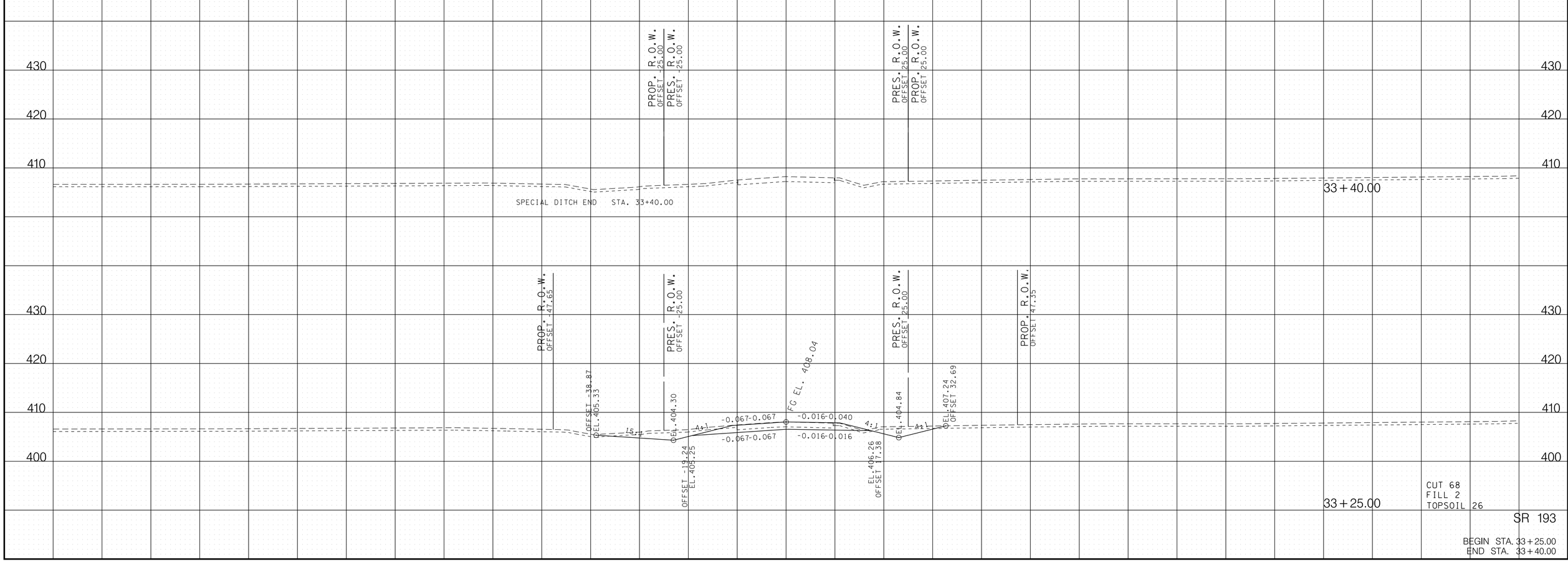
REV. 01-22-20: REVISED SUPERELEVATION TRANSITION.



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-193(11)	15

REV. 01-22-20: REVISED SUPERELEVATION TRANSITION.



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Index Of Sheets

PRELIMINARY INDEX OF SHEETS

TITLE SHEET 1
TYPICAL SECTIONS 2B
RIGHT-OF-WAY NOTES, UTILITY NOTES and UTILITY OWNERS 3
RIGHT-OF-WAY ACQUISITION TABLE(S) and PROPERTY MAP(S) 3A
PRESENT LAYOUT(S) 4
RIGHT OF WAY DETAILS 4A
PROPOSED LAYOUT(S) 4B
PROPOSED PROFILE(S) 4C
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE(S) 5
DRAINAGE MAP(S) 6
ROADWAY CROSS SECTIONS 7-17

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES X	NO

TENN.	YEAR	SHEET NO.
	2019	1
FED. AID PROJ. NO.	BR-NH-1(382)	
STATE PROJ. NO.	38002-0216-94	

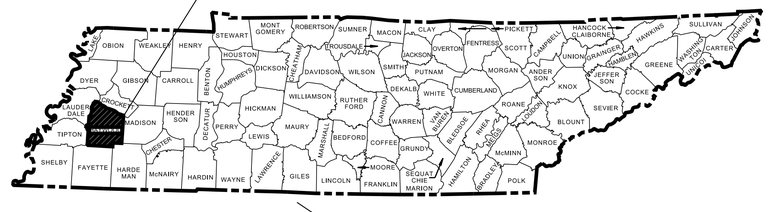
HAYWOOD COUNTY

S.R. 1 (US 70/79) BRIDGE REPLACEMENT
OVER MUDDY CREEK AT L.M. 2.13

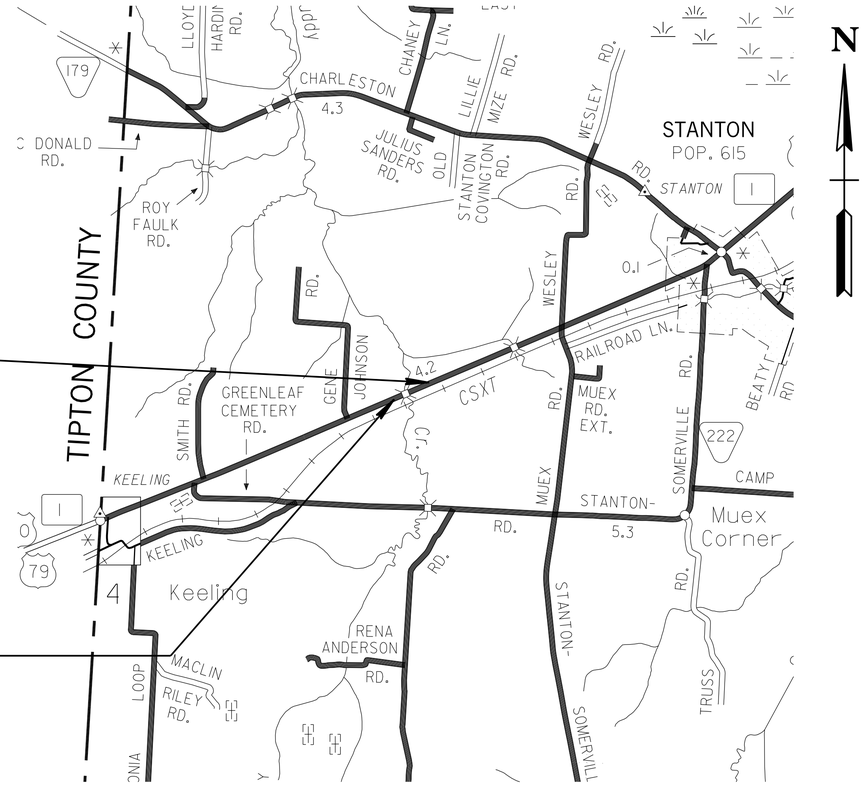
PRELIMINARY

STATE HIGHWAY NO. 1 U.S. ROUTE NO. 70/79

PROJECT LOCATION
BRIDGE ID. # 38SR0010001



PROJECT LOCATION
BRIDGE ID. #



SCALE: 1"= 1/2 MILES

NO EXCLUSIONS

PRELIMINARY

PLANS

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

38002-0216-94
END PROJECT NO. BR-NH-1(382) PRELIMINARY
STA. 64+00.00
N 424835.1013 E 944900.4742

38002-0216-94
BEGIN PROJECT NO. BR-NH-1(382) PRELIMINARY
STA. 56+00.00
N 424521.7562 E 944164.3935

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

DATE:

APPROVED: Clay Bright
CLAY BRIGHT, 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 : STEPHANIE KISSELL
DESIGNED BY : HDR ENGINEERING, INC.
DESIGNER : GREG CLUCKER CHECKED BY KEVIN CAGLE
P.E. NO. 38002-0216-94 (NEPA)
PIN NO. 128113.03

R.O.W. LENGTH	0.151 MILES
ROADWAY LENGTH	0.138 MILES
BRIDGE LENGTH	0.013 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.151 MILES

▲ Not included in the project length (Non Riding Surface).

S.R. 1

SURVEY 10-16-18	TRAFFIC DATA	
	ADT (2022)	1650
	ADT (2042)	1980
	DHV (2042)	218
	D	65 - 35
	T (ADT)	13 %
	T (DHV)	9 %
	V	55 MPH

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

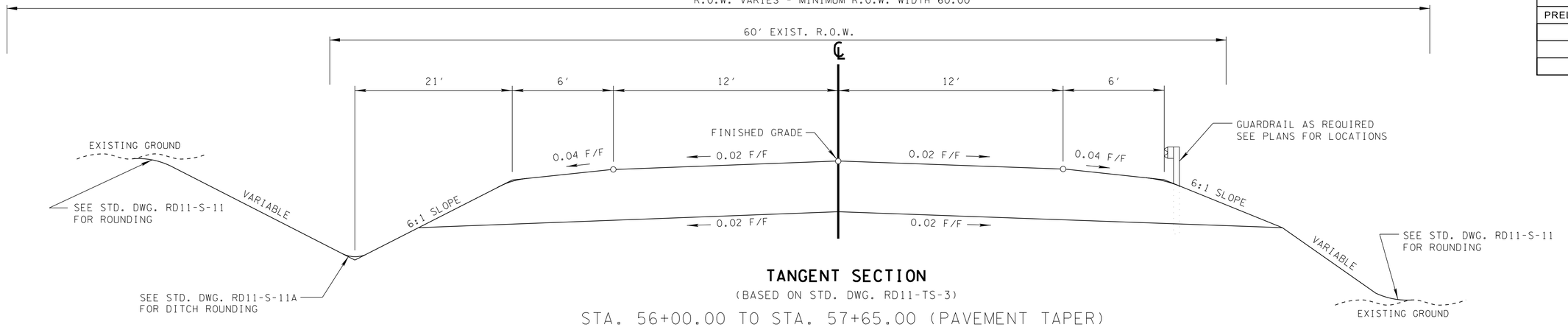
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	2B



TANGENT SECTION

(BASED ON STD. DWG. RD11-TS-3)

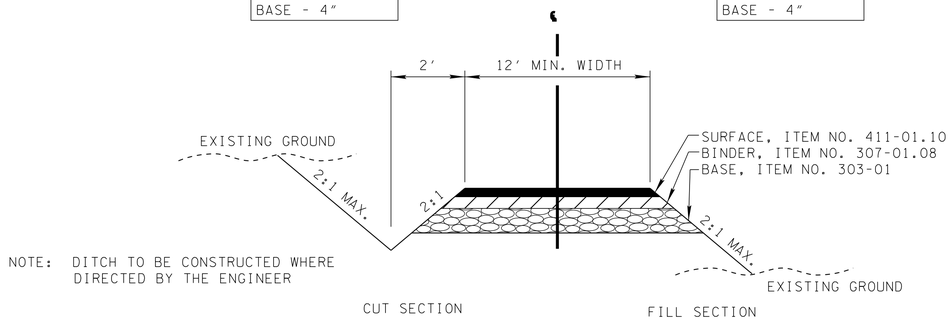
STA. 56+00.00 TO STA. 57+65.00 (PAVEMENT TAPER)
STA. 57+65.00 TO STA. 62+35.00
STA. 62+35.00 TO STA. 64+00.00 (PAVEMENT TAPER)

BUSINESS

SURFACE - 1¼"
BINDER - 2"
BASE - 4"

FIELD OR RESIDENTIAL

SURFACE - 1½"
BINDER - NONE
BASE - 4"

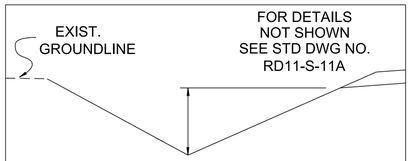


NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

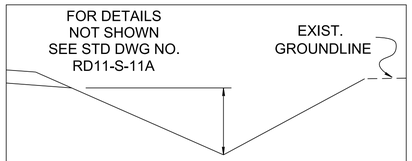
SPECIAL DITCHES



PROP. "V" BOTTOM SODDED DITCH

SR 1 LEFT STA. 57+00.00 TO STA. 59+75.00

SR 1 LEFT STA. 61+50.00 TO STA. 63+75.00



PROP. "V" BOTTOM SODDED DITCH

SR 1 RIGHT STA. 57+50.00 TO STA. 58+50.00

SR 1 RIGHT STA. 61+25.00 TO STA. 62+25.00

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

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DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	3

RIGHT-OF-WAY

(1) 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.

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

(3) 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.

(4) 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.

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

(6) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(7) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

UTILITY

(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 ITS 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 OWNERS

CABLE:

AT&T - JACKSON
315 EAST COLLEGE ST.
JACKSON, TN 38301
CONTACT: COREY BARTHOLOMEW
OFFICE PHONE: 731 423 0521
CELL PHONE:
Email:

ELECTRIC:

SOUTHWEST ELECTRIC MEMBERSHIP
468 MUNFORD AVE.
MUNFORD, TN 38058
CONTACT: SUZANNE COPE
OFFICE PHONE: 901 837 1900
CELL PHONE:
Email:

TELEPHONE:

AT&T - JACKSON
315 EAST COLLEGE ST.
JACKSON, TN 38301
CONTACT: COREY BARTHOLOMEW
OFFICE PHONE: 731 423 0521
CELL PHONE:
Email:

WATER:

TOWN OF MASON
12157 MAIN STREET
MASON, TN 38049
CONTACT: RUDOLPH MIDDLEBROOKS
OFFICE PHONE: 901 451 2860
CELL PHONE:
Email:

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

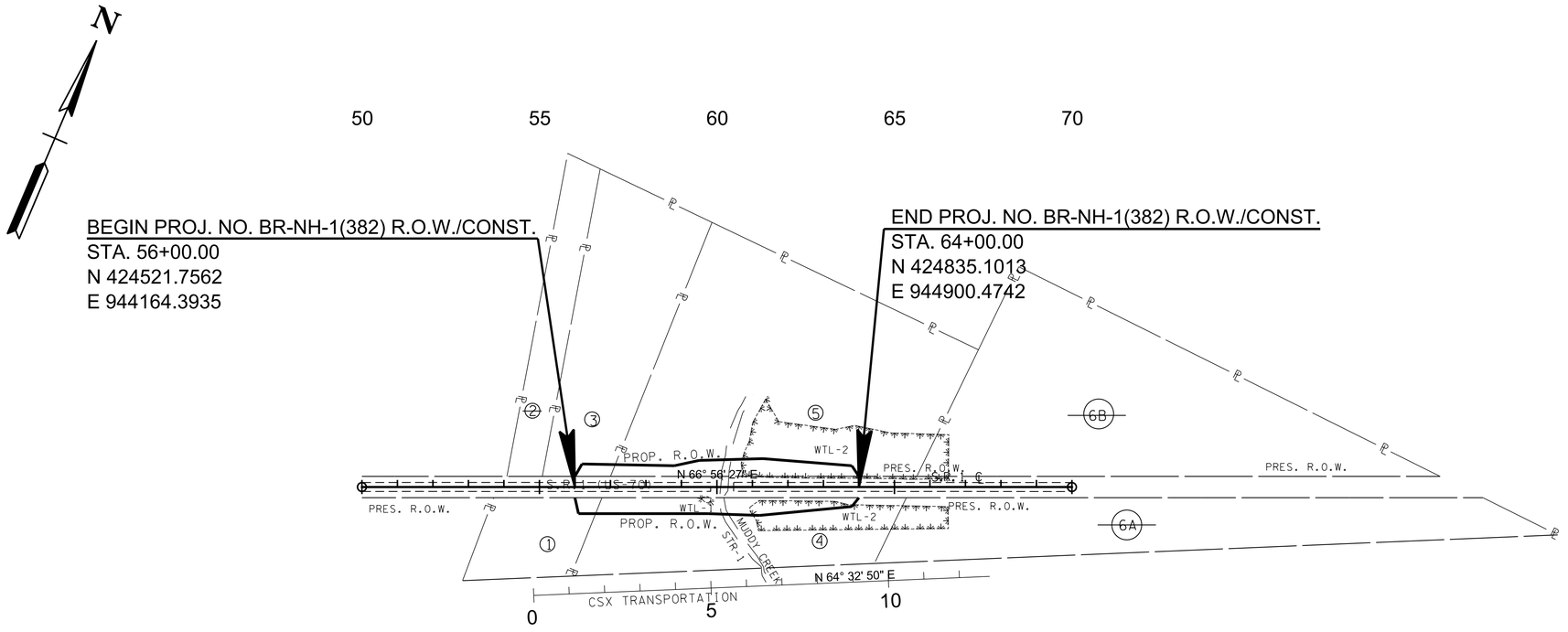
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RIGHT-OF-WAY NOTES, UTILITY NOTES AND UTILITY OWNERS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	3A



DISTURBED AREA		
IN BETWEEN SLOPE LINES	1.223	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	0.637	(AC)
TOTAL DISTURBED AREA	1.860	(AC)

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION	AIR RIGHTS
				BOOK	PAGE												
1	Curtis Leavy and wife, Dessalene	135	9	060	06010		1.578	1.578		2803 S.F.	2803 S.F.		1.514				
~~2~~	~~John Cochran and wife, Esther C.~~	~~135~~	~~29.04~~	~~423~~	~~175~~	~~2.032~~		~~2.032~~				~~2.032~~					
3	James A. Johnson and wife, Fannie	135	29.07	170	00865	4.993		4.993	3318 S.F.		3318 S.F.	4.917					
4	A D Leavy, Etal	135	29.03	641	124		3.959	3.959		0.706	0.706		3.253				
5	Christopher Levi Burk and wife, Martha Louise	135	29.02	642	370	10.875		10.875	0.619		0.619	10.256					
~~6A~~	~~Cherry Boyd and husband, Willie Rivers, c/o Deon McBride~~	~~135~~	~~26.00~~	~~31~~	~~354~~		~~5.966~~	~~5.966~~					~~5.966~~				
~~6B~~	~~Cherry Boyd and husband, Willie Rivers, c/o Deon McBride~~	~~135~~	~~26.00~~	~~31~~	~~354~~	~~9.994~~		~~9.994~~				~~9.994~~					
ACQUISITION TOTALS (ACRES)									1.465								

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP AND RIGHT-OF-WAY ACQUISITION TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	4

BEGIN PROJ. NO. BR-NH-1(382) R.O.W./CONST.
STA. 56+00.00
N 424521.7562
E 944164.3935

END PROJ. NO. BR-NH-1(382) R.O.W./CONST.
STA. 64+00.00
N 424835.1013
E 944900.4742

N

③ JAMES A. JOHNSON AND WIFE, FANNIE

② JOHN COCHRAN AND WIFE, ESTHER H.

① CURTIS LEAVY AND WIFE, DESSALENE

④ A.D. LEAVY AND OTHERS

⑤ CHRISTOPHER LEVI BURK

6B CHERRY BOYD AND HUSBAND, WILLIE RIVERS

6A CHERRY BOYD AND HUSBAND, WILLIE RIVERS

55 60 65

S.R. 1 (US-70) (ASPHALT) S.R. 1 ℄

N 66° 56' 27" E

N 64° 32' 50" E

CSX TRANSPORTATION

2 SPAN, CONC. DECK STEEL BEAM BRIDGE NO. 38SR00010001

3 SPAN, CONC. BEAM RAILROAD BRIDGE

BEGIN EX. BRIDGE 59+82.13

END EX. BRIDGE 60+46.83

FIRE DEPT. USE ONLY

PUBLIC WATER SUPPLY (TOEC)

PROPANE TANK

STORAGE TRAILER

TRASH BINS

NO INFORMATION CONCERNING POSSIBILITY OF U.G. FUEL TANKS AVAILABLE

NO DRILLER INFORMATION AVAILABLE

FIELD LINES NOT FOUND

APPROX. SEPTIC TANK LOCATION

WELL

SPIGGOT

STOCK

GRAVEL

WOODED

WTL-1

WTL-2

PRES. R.O.W.

TOP OF CUT

TOE OF FILL

BRIDGE WT. LIMIT

TEL. PED.

TRAV-S226

TRAV-S225

TRAV-S205

TRAV-S24

TRAV-S204

TRAV-S492

TBM#2

R.O.W.

STOP FOR PEDESTRIAN

38-001-01

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S226	424463.0700	943966.4600	304.28	53+94.89	23.53' (LT)
S225	424604.9000	944525.0600	297.51	59+64.42	64.77' (RT)
S492	424429.3100	944669.0900	304.46	60+28.16	282.74' (RT)
S205	424735.4300	944605.5500	299.88	60+89.60	23.81' (LT)
S204	424640.2400	945065.4800	295.80	64+75.50	243.92' (RT)
S1	424954.6100	945134.6200	298.61	66+62.25	18.25' (LT)

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.0075 AC.
	VOLUME OF PERMANENT IMPACT = 12.07 C.Y.
LEGEND	WETLAND IMPACTS (WTL-2)
	AREA OF PERMANENT IMPACT = 1.0959 AC.
	VOLUME OF PERMANENT IMPACT =1768.05 C.Y.

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

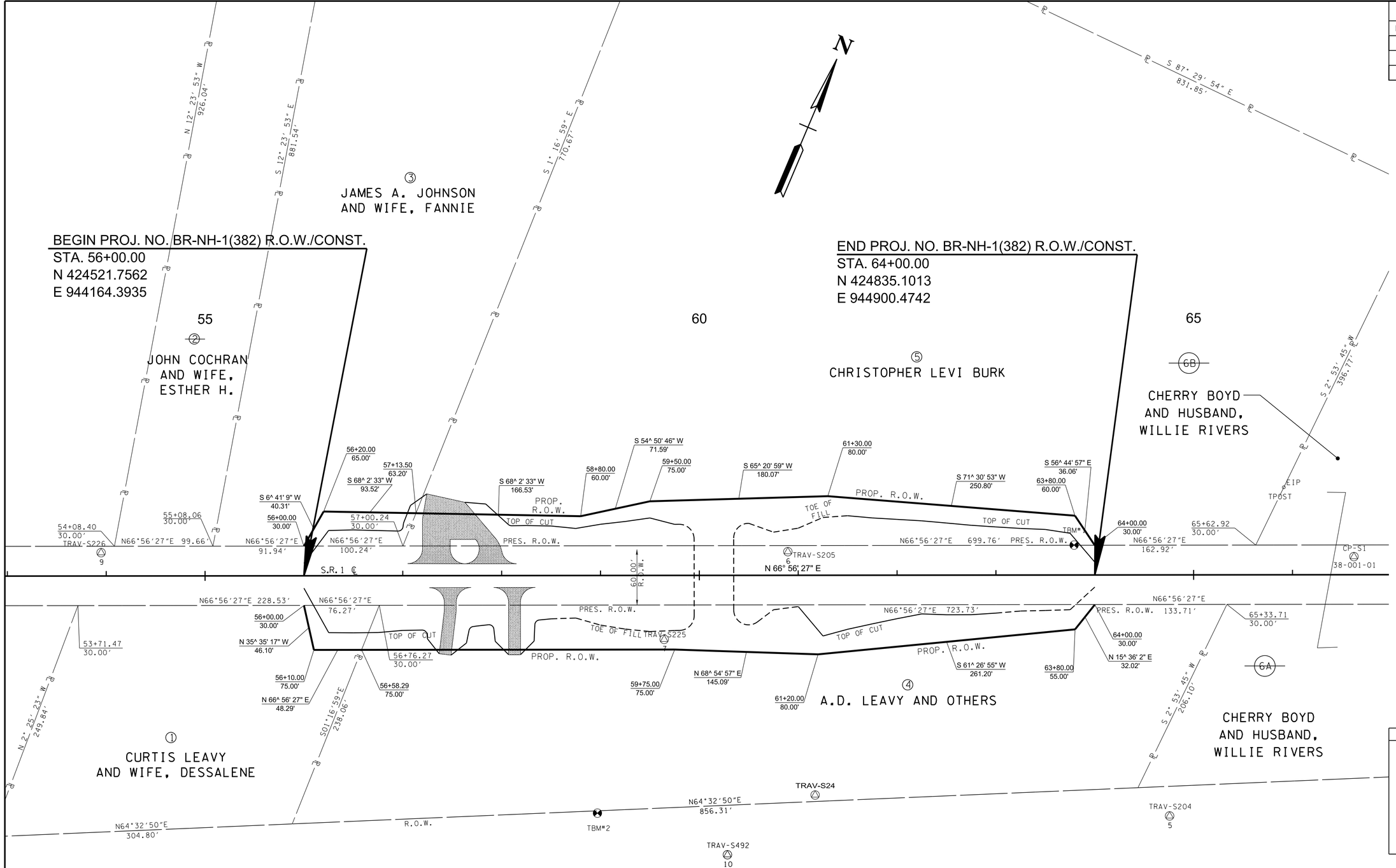
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 56+00 TO STA. 64+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	4A



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S226	424463.0700	943966.4600	304.28	53+94.89	23.53' (LT)
S225	424604.9000	944525.0600	297.51	59+64.42	64.77' (RT)
S492	424429.3100	944669.0900	304.46	60+28.16	282.74' (RT)
S205	424735.4300	944605.5500	299.88	60+89.60	23.81' (LT)
S204	424640.2400	945065.4800	295.80	64+75.50	243.92' (RT)
S1	424954.6100	945134.6200	298.61	66+62.25	18.25' (LT)

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

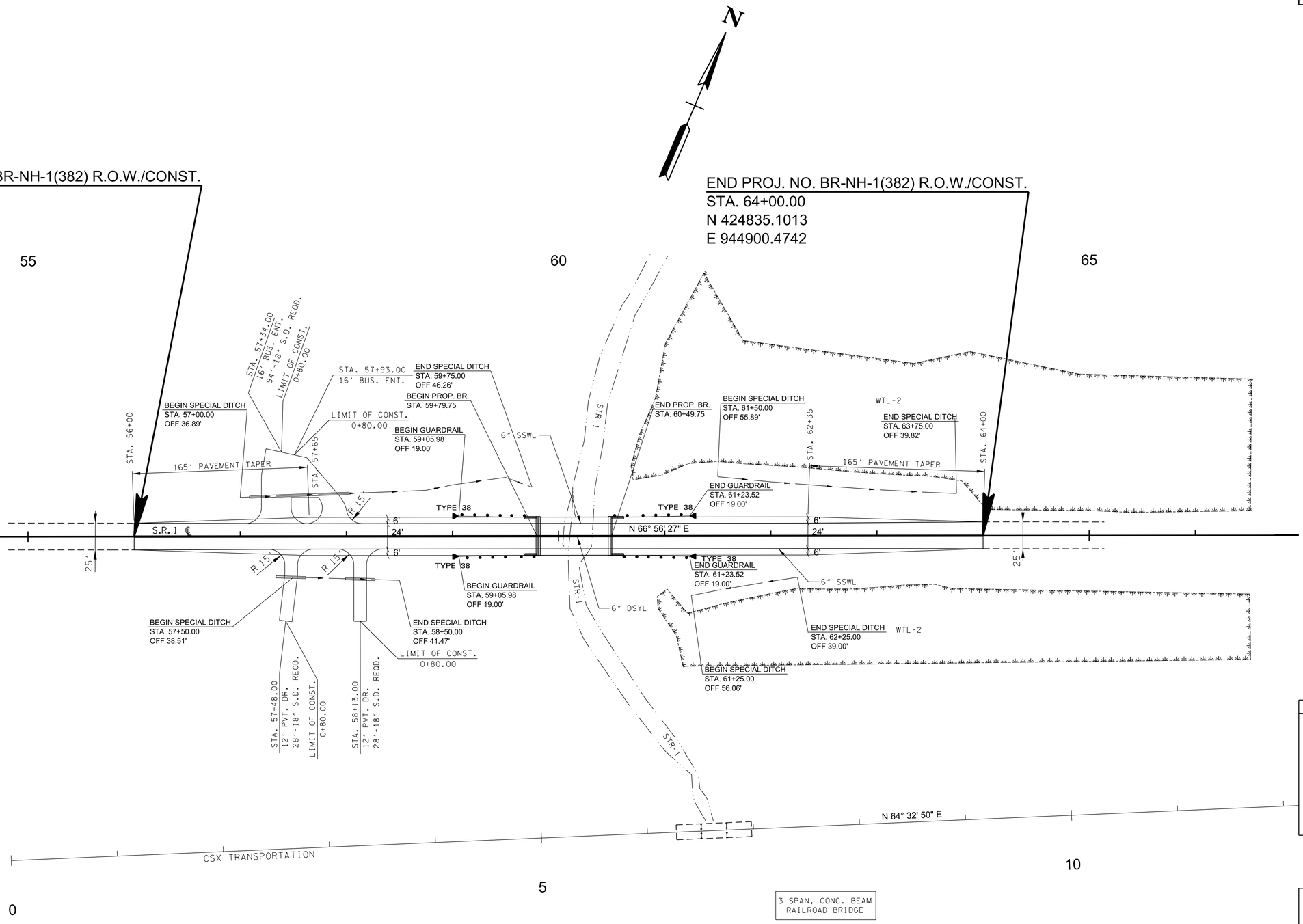
STA. 56+00 TO STA. 64+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	4B

BEGIN PROJ. NO. BR-NH-1(382) R.O.W./CONST.
STA. 56+00.00
N 424521.7562
E 944164.3935

END PROJ. NO. BR-NH-1(382) R.O.W./CONST.
STA. 64+00.00
N 424835.1013
E 944900.4742



CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

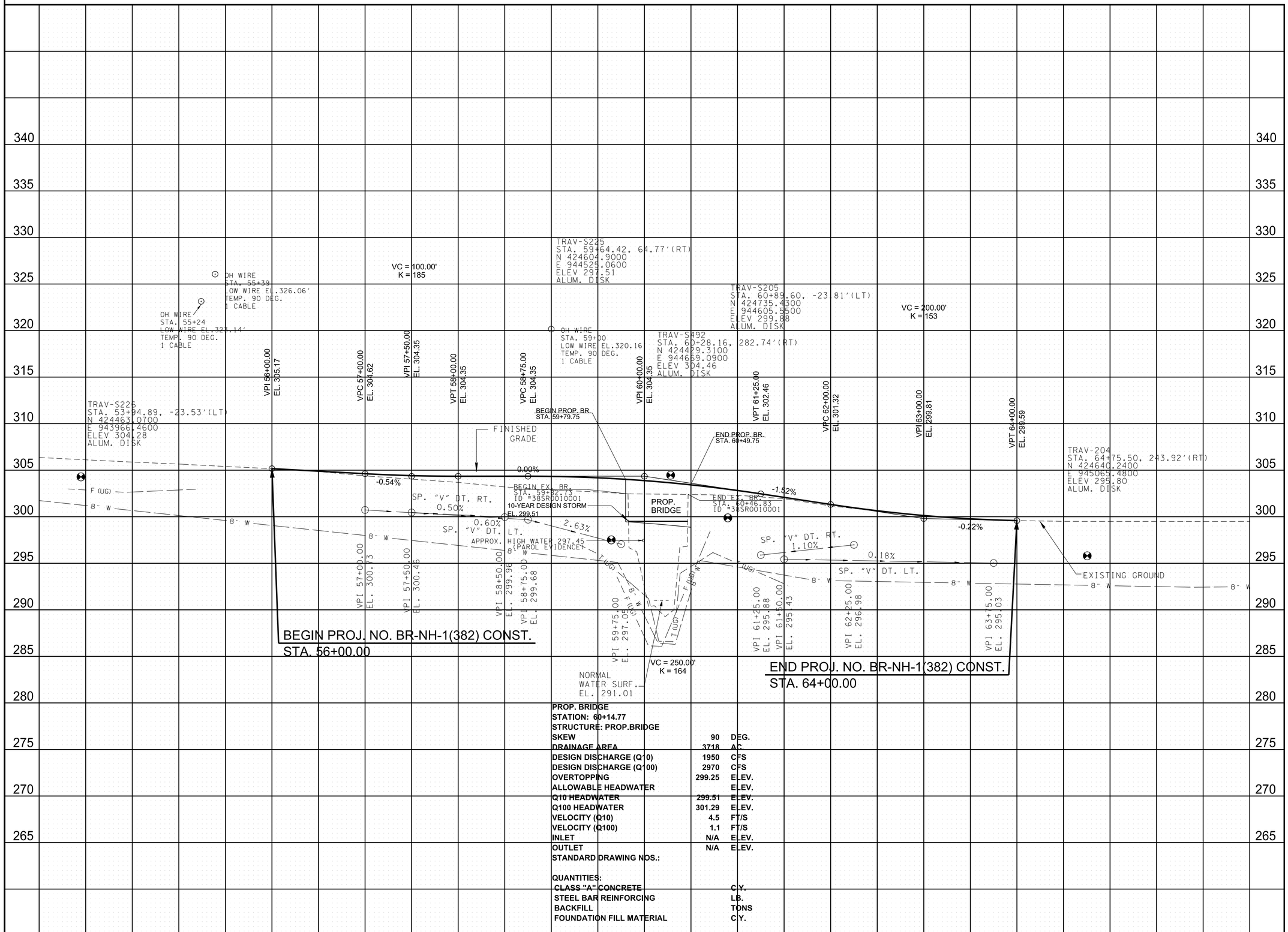
PROPOSED LAYOUT

STA. 56+00 TO STA. 64+00
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	4C

REV. 01-22-20: REVISED 10-YEAR DESIGN STORM ELEVATION IN PROFILE. REVISED Q10 AND Q100 HEADWATER ELEVATIONS AND Q100 VELOCITY.



PROP. BRIDGE		
STATION: 60+14.77		
STRUCTURE: PROP.BRIDGE		
SKEW	**90**	**DEG.**
DRAINAGE AREA	**3718**	**AC.**
DESIGN DISCHARGE (Q10)	**1950**	**CFS**
DESIGN DISCHARGE (Q100)	**2970**	**CFS**
OVERTOPPING	**299.25**	**ELEV.**
ALLOWABLE HEADWATER		**ELEV.**
Q10 HEADWATER	**299.51**	**ELEV.**
Q100 HEADWATER	**301.29**	**ELEV.**
VELOCITY (Q10)	**4.5**	**FT/S**
VELOCITY (Q100)	**1.1**	**FT/S**
INLET	**N/A**	**ELEV.**
OUTLET	**N/A**	**ELEV.**
STANDARD DRAWING NOS.:		
QUANTITIES:		
CLASS "A" CONCRETE		**C.Y.**
STEEL BAR REINFORCING		**LB.**
BACKFILL		**TONS**
FOUNDATION FILL MATERIAL		**C.Y.**

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

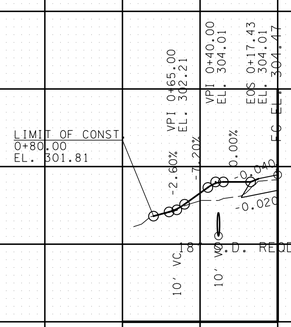
PROPOSED PROFILE

STA. 56+00 TO STA. 64+00

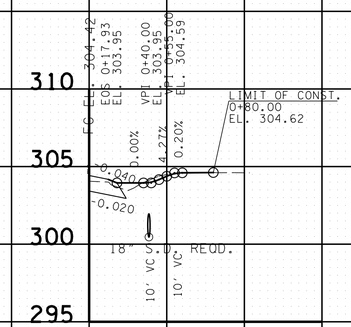
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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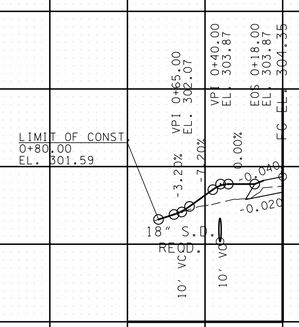
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PRELIM	2019	BR-NH-1(382)	5



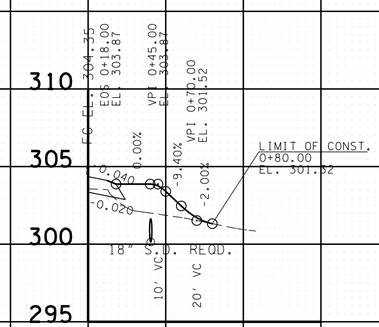
16' PVT. DR. LT. 57+34.00
S.R. 1
TRACT NO. 5



12' PVT. DR. RT. 57+48.00
S.R. 1
TRACT NO. 4



16' PVT. DR. LT. 57+93.00
S.R. 1
TRACT NO. 5



12' PVT. DR. RT. 58+13.00
S.R. 1
TRACT NO. 4

CAUTION !
PRELIMINARY
PLANS
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CHANGE

SEALED BY

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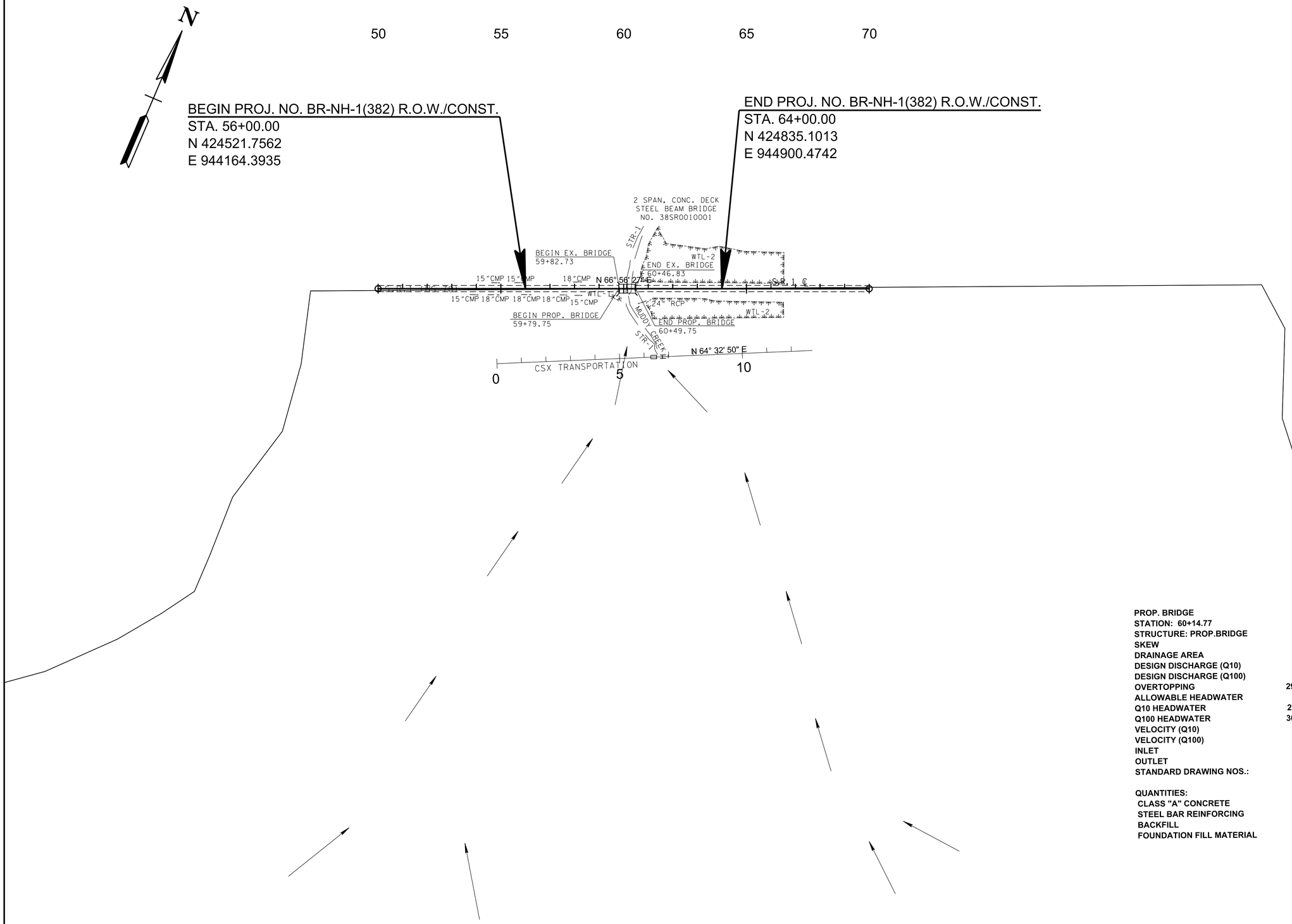
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	6

REV. 01-22-20: REVISED Q10 AND Q100 HEADWATER ELEVATIONS AND Q100 VELOCITY.



PROP. BRIDGE		
STATION: 60+14.77		
STRUCTURE: PROP.BRIDGE		
SKEW	90	DEG.
DRAINAGE AREA	3718	AC.
DESIGN DISCHARGE (Q10)	1950	CFS
DESIGN DISCHARGE (Q100)	2970	CFS
OVERTOPPING	299.25	ELEV.
ALLOWABLE HEADWATER		ELEV.
Q10 HEADWATER	299.51	ELEV.
Q100 HEADWATER	301.29	ELEV.
VELOCITY (Q10)	4.5	FT/S
VELOCITY (Q100)	1.1	FT/S
INLET	N/A	ELEV.
OUTLET	N/A	ELEV.
STANDARD DRAWING NOS.:		
QUANTITIES:		
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
BACKFILL		TONS
FOUNDATION FILL MATERIAL		C.Y.

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

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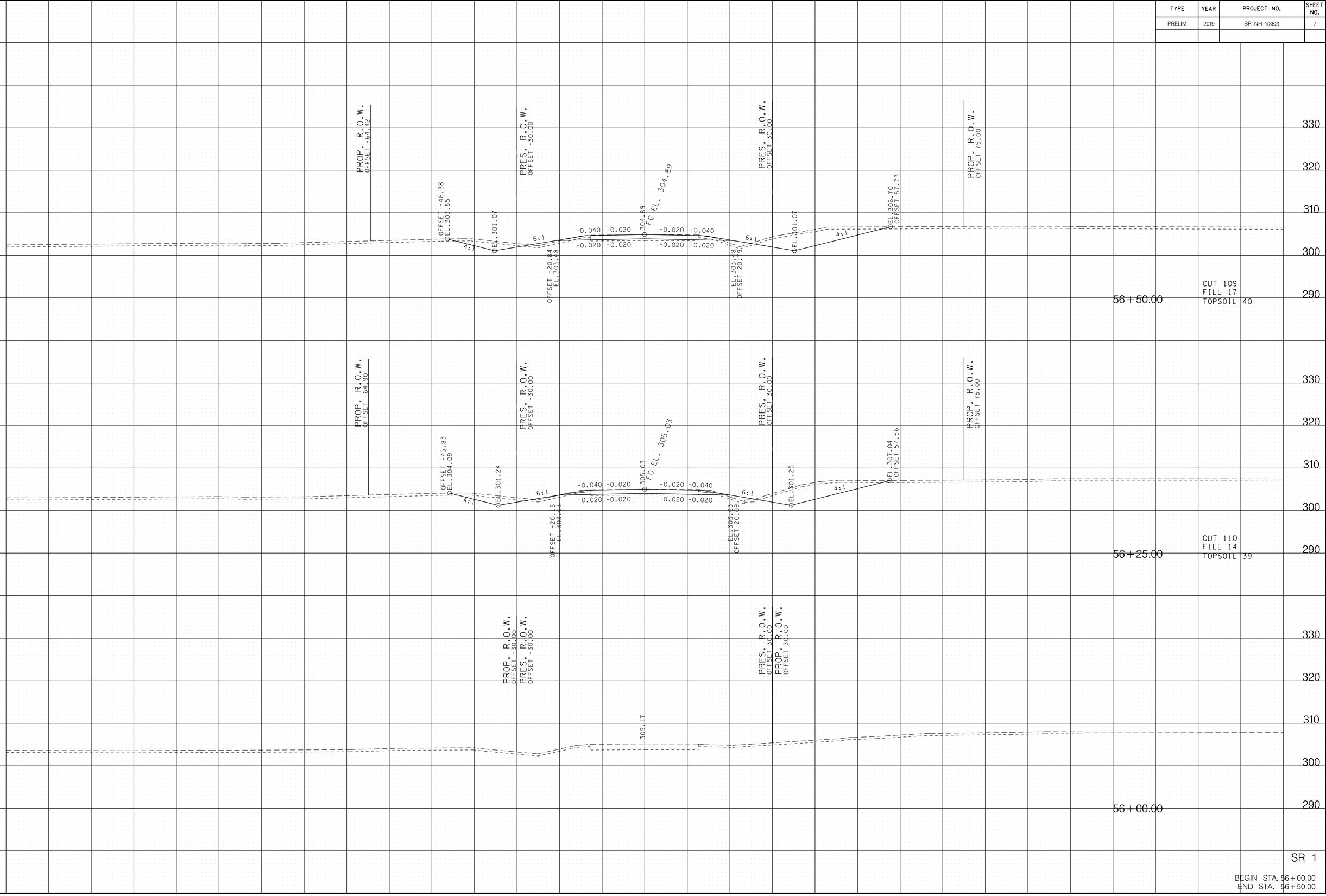
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 56+00 TO STA. 64+00
SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	7

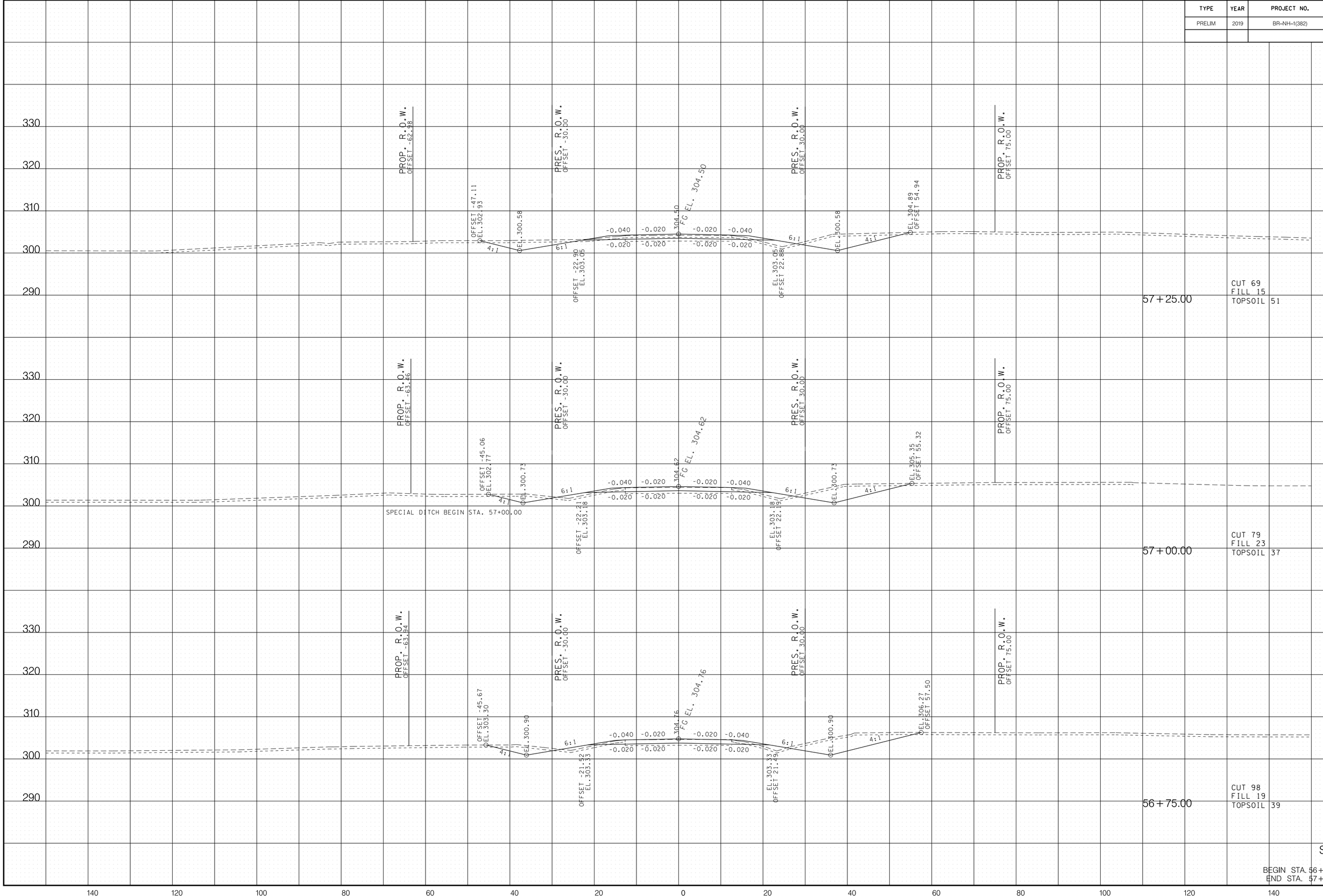


SR 1

BEGIN STA. 56+00.00
END STA. 56+50.00

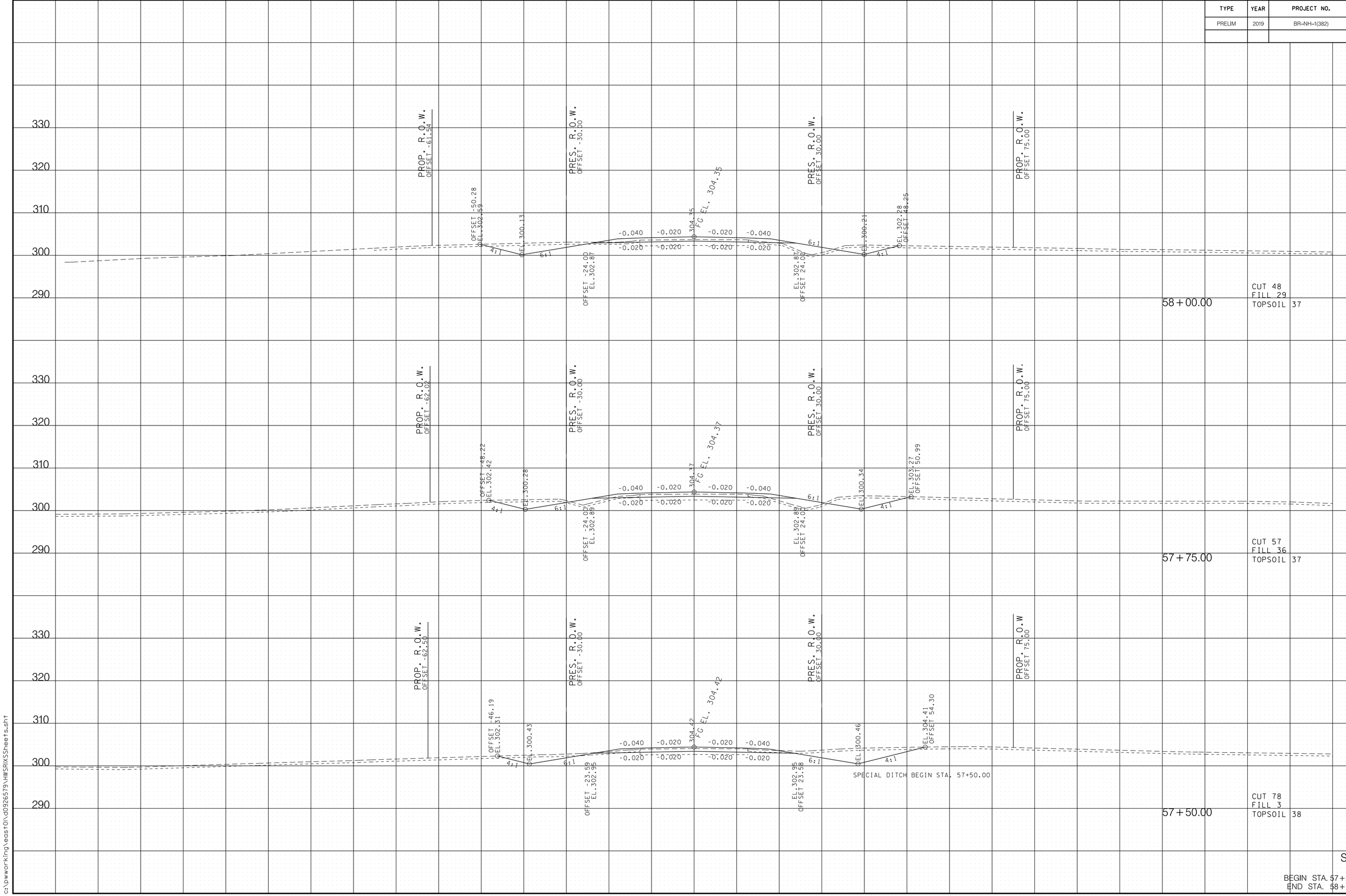
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	8



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	9

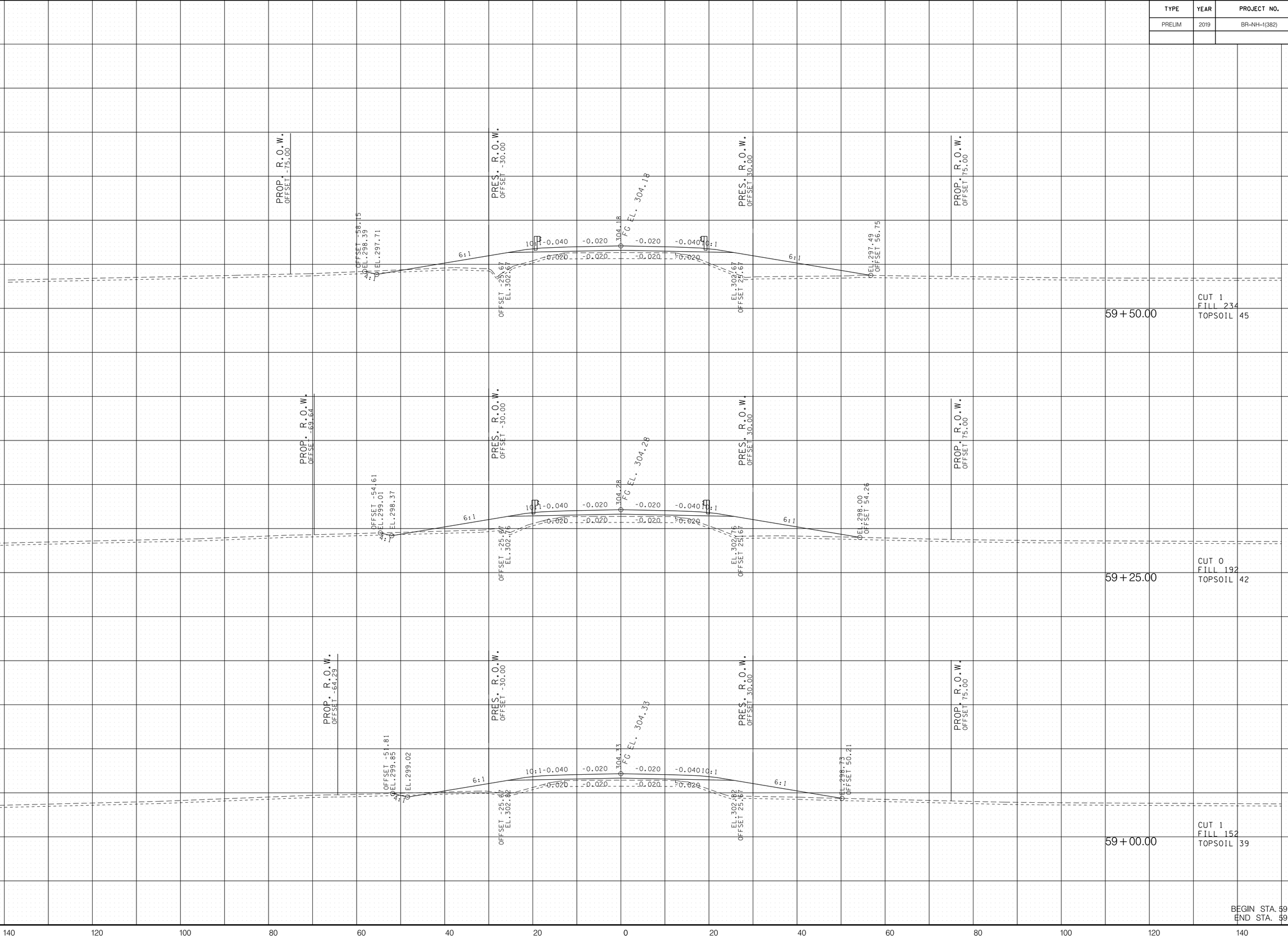


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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	10

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	11



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	12

PROPOSED BRIDGE END STA. 60+49.75

PROP. R.O.W. OFFSET -77.08
PRES. R.O.W. OFFSET -30.00
PRES. R.O.W. OFFSET 30.00
PROP. R.O.W. OFFSET 76.72

-0.020 303.67 PG EL. 303.67 -0.020

60+25.00

PROP. R.O.W. OFFSET -76.39
PRES. R.O.W. OFFSET -30.00
PRES. R.O.W. OFFSET 30.00
PROP. R.O.W OFFSET 75.86

-0.020 303.88 PG EL. 303.88 -0.020

60+00.00

PROPOSED BRIDGE BEGIN STA. 59+79.75

PROP. R.O.W. OFFSET -75.69
PRES. R.O.W. OFFSET -30.00
PRES. R.O.W. OFFSET 30.00
PROP. R.O.W. OFFSET 75.00

OFFSET -51.66 EL. 298.40
4:1
EL. 297.05
-0.040 -0.020 304.05 PG EL. 304.05 -0.020 -0.040
-0.020 -0.020 -0.020 -0.020
4:1
6:1
OFFSET -24.19 EL. 302.47
EL 302.47 OFFSET 24.19
EL. 297.30 OFFSET 55.77

SPECIAL DITCH END STA. 59+75.00

59+75.00

CUT 2
FILL 267
TOPSOIL 41

SR 1

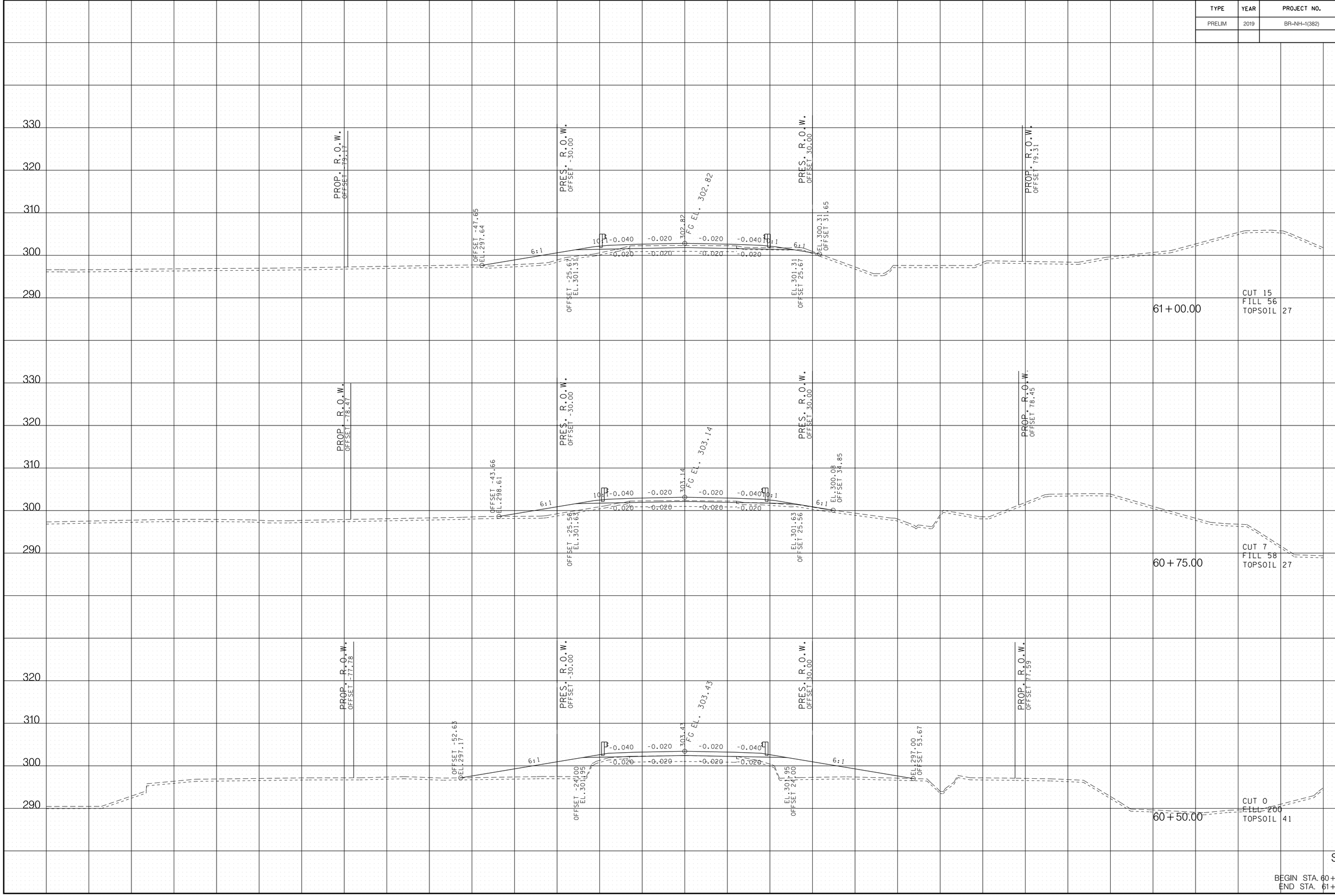
BEGIN STA. 59+75.00
END STA. 60+25.00

320 310 300 290

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

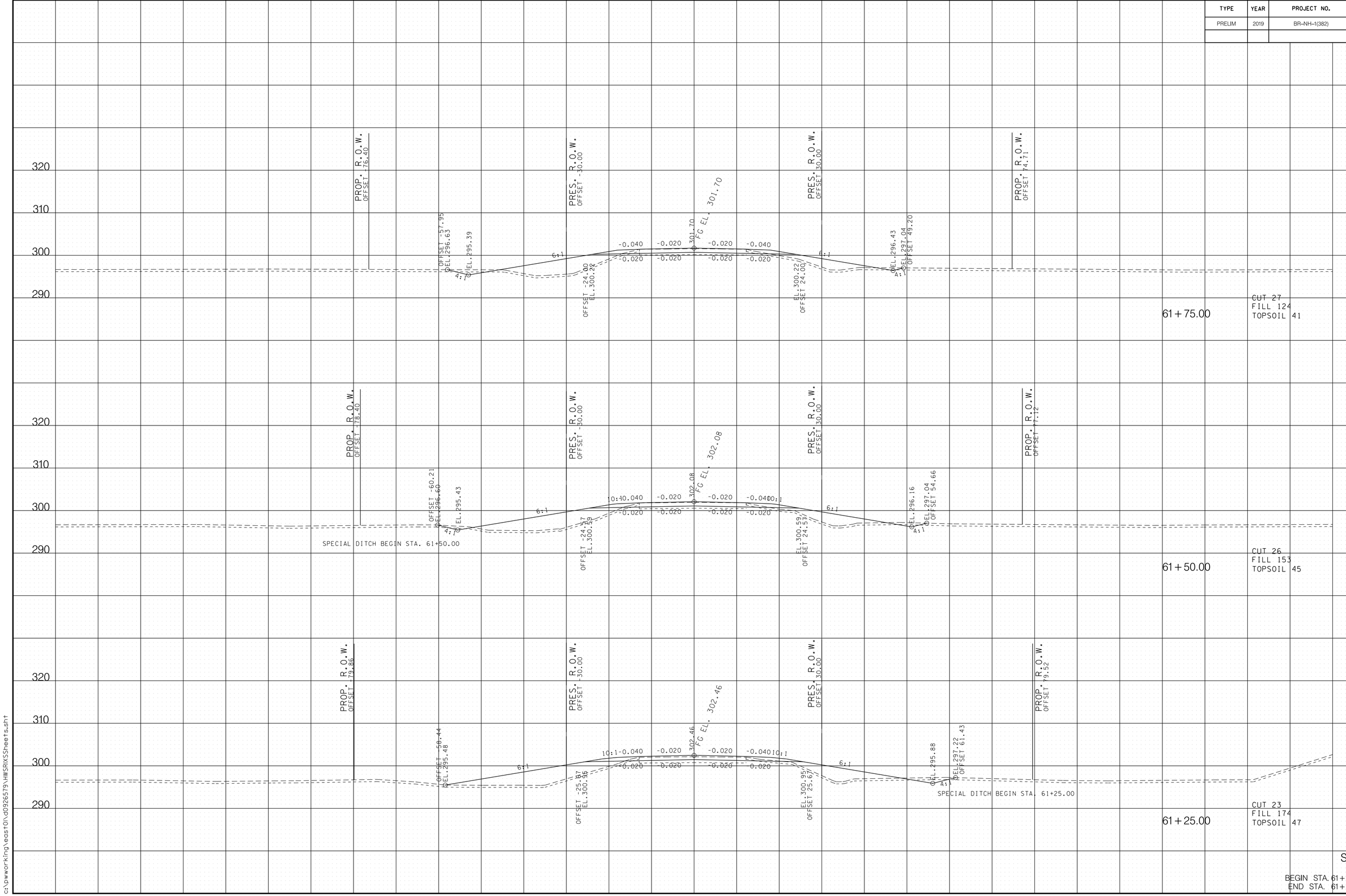
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	13



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PRELIM	2019	BR-NH-1(382)	14

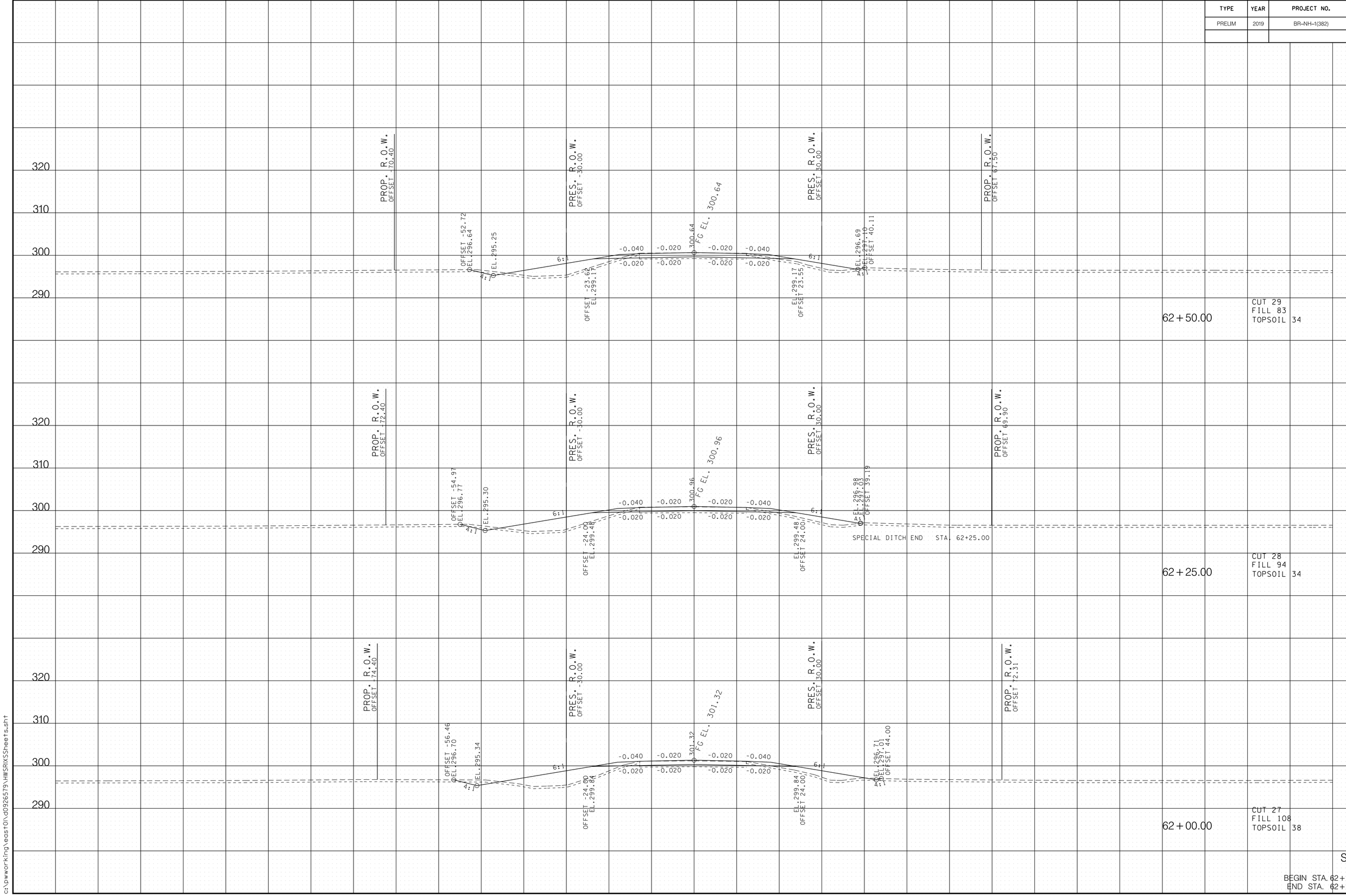


SR 1

BEGIN STA. 61+25.00
END STA. 61+75.00

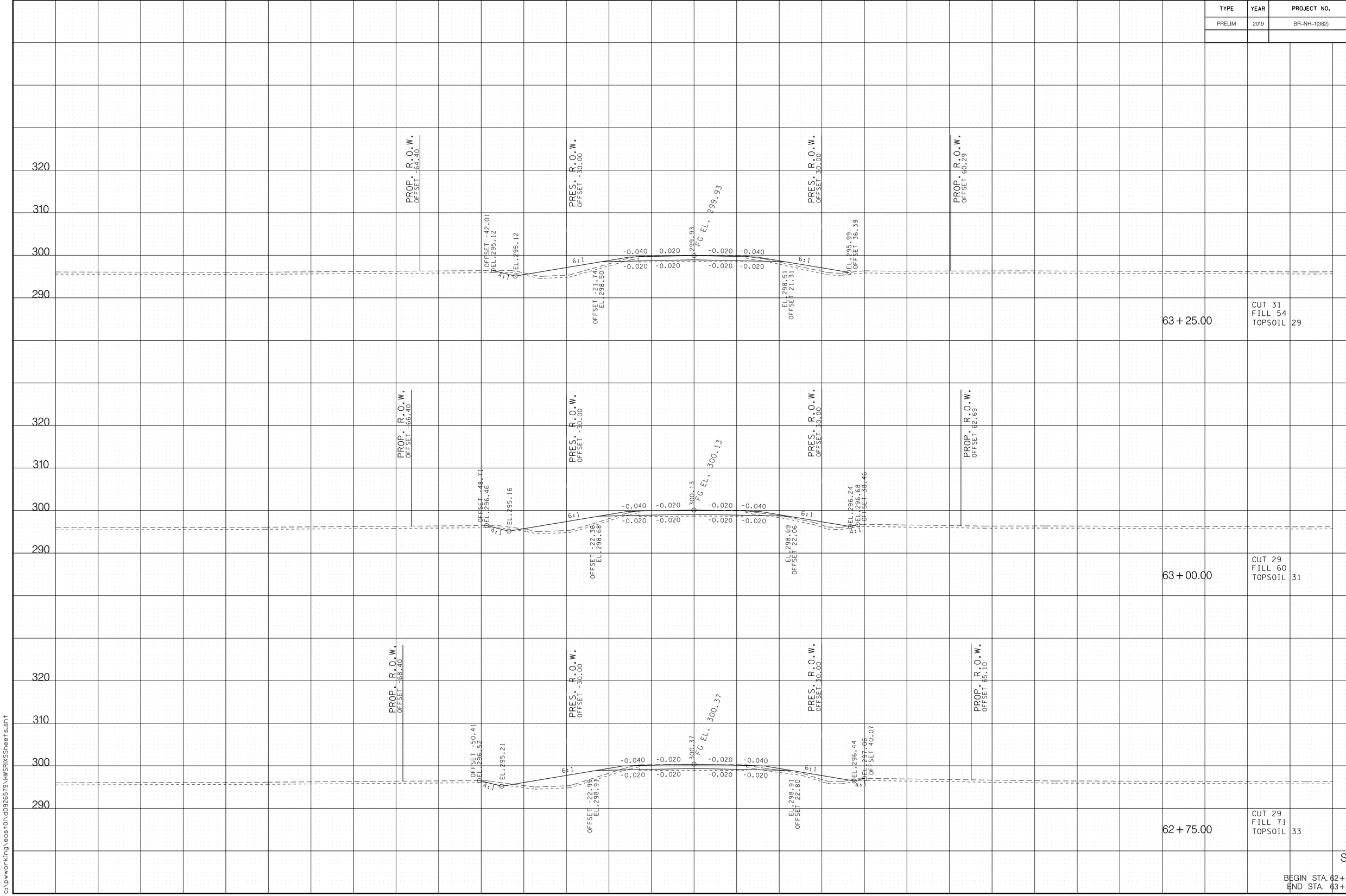
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PRELIM	2019	BR-NH-1(382)	15



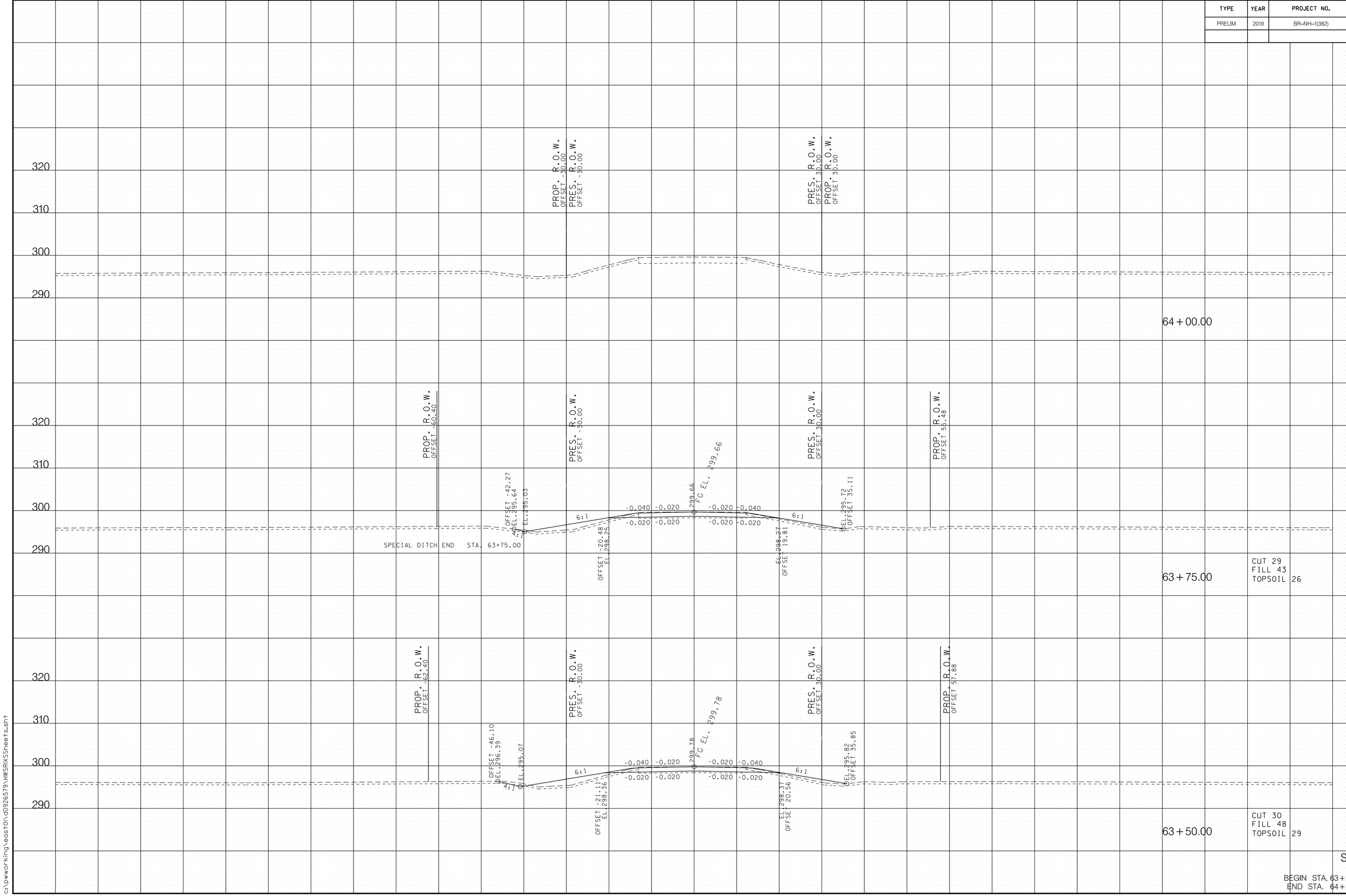
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	16



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(382)	17



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Index Of Sheets

PRELIMINARY INDEX OF SHEETS

TITLE SHEET....1
TYPICAL SECTIONS....2B
RIGHT-OF-WAY NOTES, UTILITY NOTES and UTILITY OWNERS....3
RIGHT-OF-WAY ACQUISITION TABLE(S) and PROPERTY MAP(S)....3A
PRESENT LAYOUT(S)....4
RIGHT OF WAY DETAILS....4A
PROPOSED LAYOUT(S)....4B
PROPOSED PROFILE(S)....4C
DRAINAGE MAP(S)....5
CULVERT SECTION(S)....6
ROADWAY CROSS SECTIONS....7-12

38002-0217-94
END PROJECT NO. BR-NH-1(383) PRELIMINARY
STA. 103+50.00
N 426382.8297 E 948534.6222

38002-0217-94
BEGIN PROJECT NO. BR-NH-1(383) PRELIMINARY
STA. 95+50.00
N 426069.3168 E 947798.6130

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 : STEPHANIE KISSELL
DESIGNED BY : HDR ENGINEERING, INC.
DESIGNER : GREG CLUCKER CHECKED BY KEVIN CAGLE
P.E. NO. 38002-0217-94 (NEPA)
PIN NO. 128113.04

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

HAYWOOD COUNTY

S.R. 1 (US 70/79) BRIDGE REPLACMENT
OVER BRANCH AT L.M. 2.89

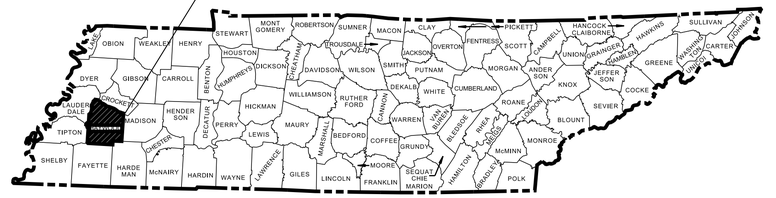
PRELIMINARY

STATE HIGHWAY NO. 1 U.S. ROUTE NO. 70/79

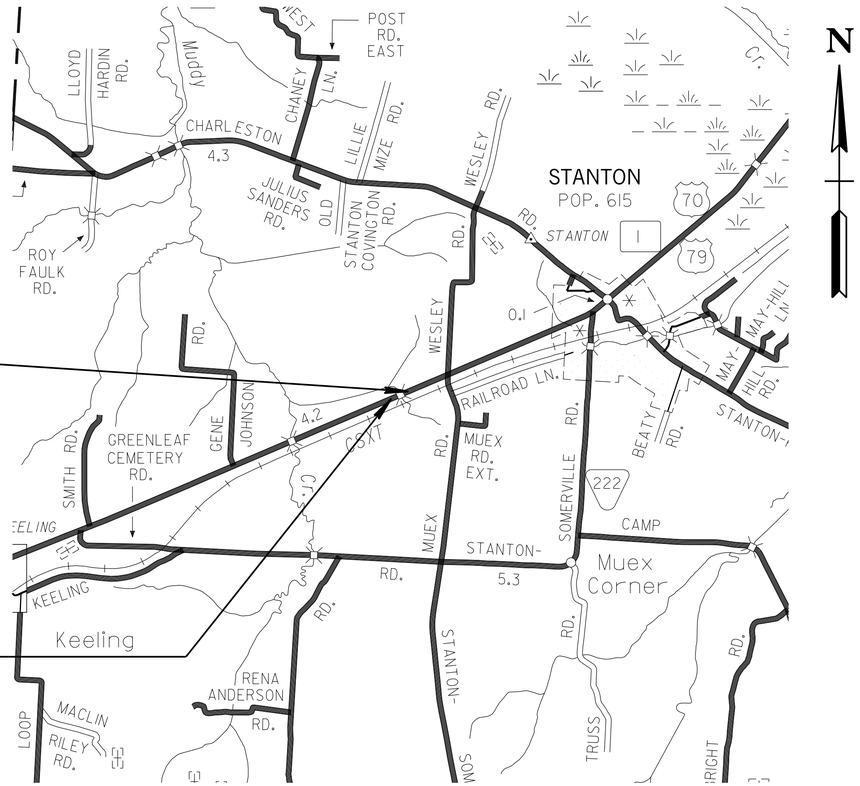
DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES X	NO

TENN.	YEAR	SHEET NO.
	2019	1
FED. AID PROJ. NO.	BR-NH-1(383)	
STATE PROJ. NO.	38002-0217-94	

PROJECT LOCATION
BRIDGE ID. # 38SR0010003



PROJECT LOCATION
BRIDGE ID. #



SCALE: 1"= 1/2 MILES

NO EXCLUSIONS

PRELIMINARY

PLANS

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

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

DATE:

APPROVED: Clay Bright
CLAY BRIGHT, COMMISSIONER

S.R. 1

SURVEY 10-16-18	TRAFFIC DATA	
	ADT (2022)	1650
	ADT (2042)	1980
	DHV (2042)	218
	D	65 - 35
	T (ADT)	13 %
	T (DHV)	9 %
	V	55 MPH

R.O.W. LENGTH	0.151 MILES
ROADWAY LENGTH	0.151 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.151 MILES

▲ Not included in the project length (Non Riding Surface).

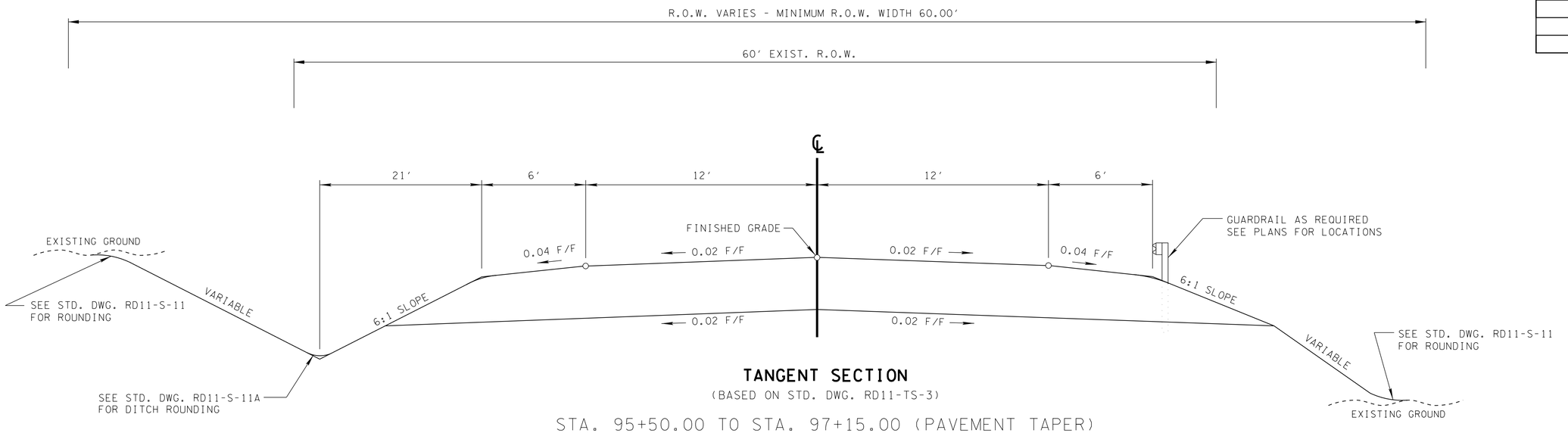
COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00004 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	2B

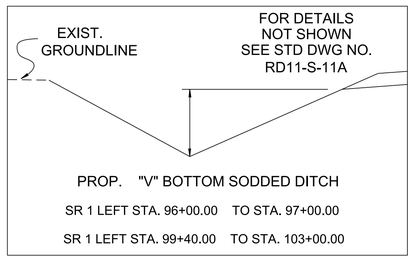


TANGENT SECTION

(BASED ON STD. DWG. RD11-TS-3)

STA. 95+50.00 TO STA. 97+15.00 (PAVEMENT TAPER)
STA. 97+15.00 TO STA. 101+85.00
STA. 101+85.00 TO STA. 103+50.00 (PAVEMENT TAPER)

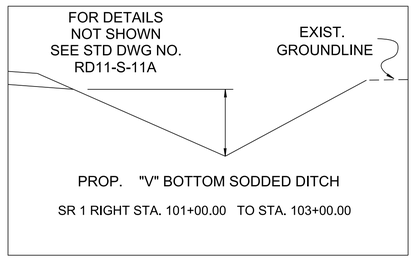
SPECIAL DITCHES



PROP. "V" BOTTOM SODDED DITCH

SR 1 LEFT STA. 96+00.00 TO STA. 97+00.00

SR 1 LEFT STA. 99+40.00 TO STA. 103+00.00



PROP. "V" BOTTOM SODDED DITCH

SR 1 RIGHT STA. 101+00.00 TO STA. 103+00.00

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	3

RIGHT-OF-WAY

(1) 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.

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

(3) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(4) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

UTILITY

(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 ITS 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 OWNERS

CABLE:

AT&T - JACKSON
315 EAST COLLEGE ST.
JACKSON, TN 38301
CONTACT: COREY BARTHOLOMEW
OFFICE PHONE: 731 423 0521
CELL PHONE:
Email:

ELECTRIC:

SOUTHWEST ELECTRIC MEMBERSHIP
468 MUNFORD AVE.
MUNFORD, TN 38058
CONTACT: SUZANNE COPE
OFFICE PHONE: 901 837 1900
CELL PHONE:
Email:

TELEPHONE:

AT&T - JACKSON
315 EAST COLLEGE ST.
JACKSON, TN 38301
CONTACT: COREY BARTHOLOMEW
OFFICE PHONE: 731 423 0521
CELL PHONE:
Email:

WATER:

TOWN OF MASON
12157 MAIN STREET
MASON, TN 38049
CONTACT: RUDOLPH MIDDLEBROOKS
OFFICE PHONE: 901 451 2860
CELL PHONE:
Email:

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

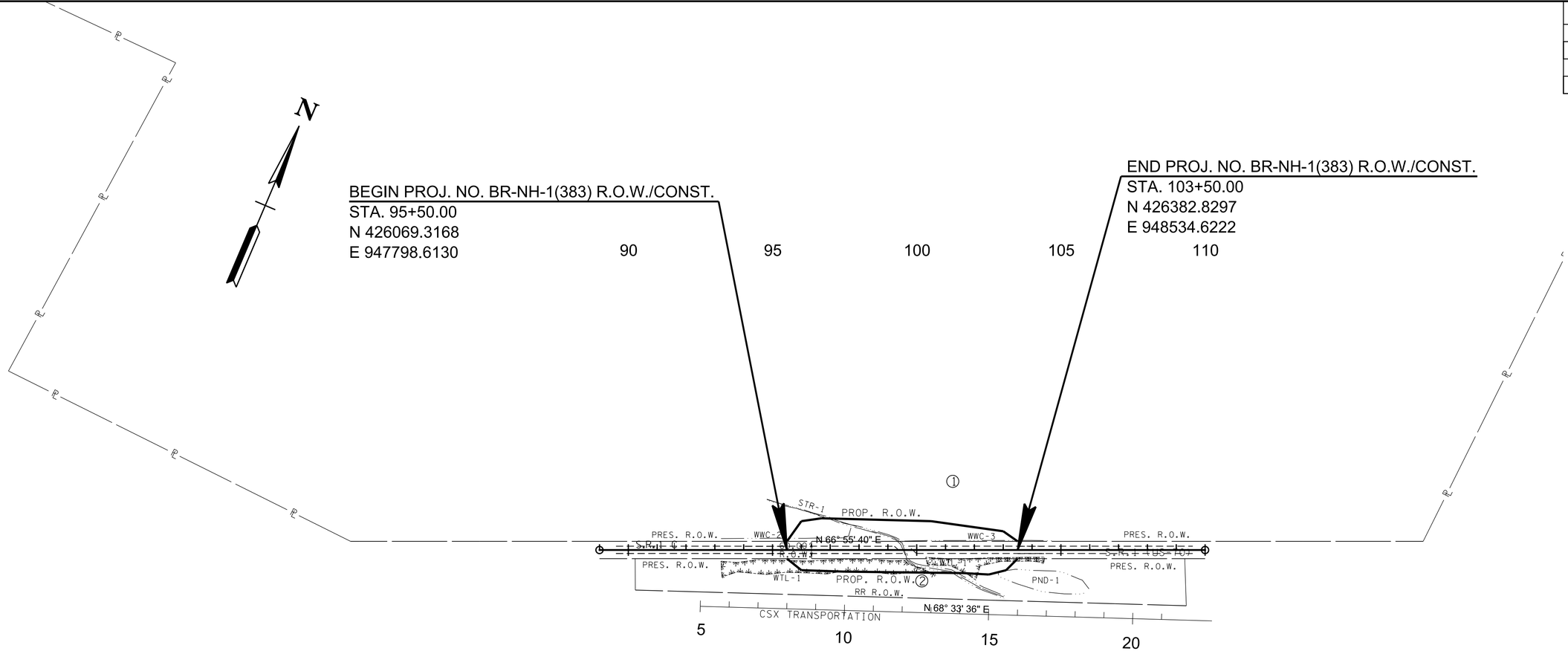
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DEPARTMENT OF TRANSPORTATION

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	3A



DISTURBED AREA		
IN BETWEEN SLOPE LINES	1.525	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	0.609	(AC)
TOTAL DISTURBED AREA	2.134	(AC)

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION	AIR RIGHTS
				BOOK	PAGE												
1	Gerald R. Woods Sr Living Trust	134	001.00	33	346	580.700		580.700	1.136		1.136	579.564					
2	Inette Wilks	134	003.00	123	733		5.700	5.700		0.809	0.809		4.891				
ACQUISITION TOTALS (ACRES)									1.945								

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

SEALED BY

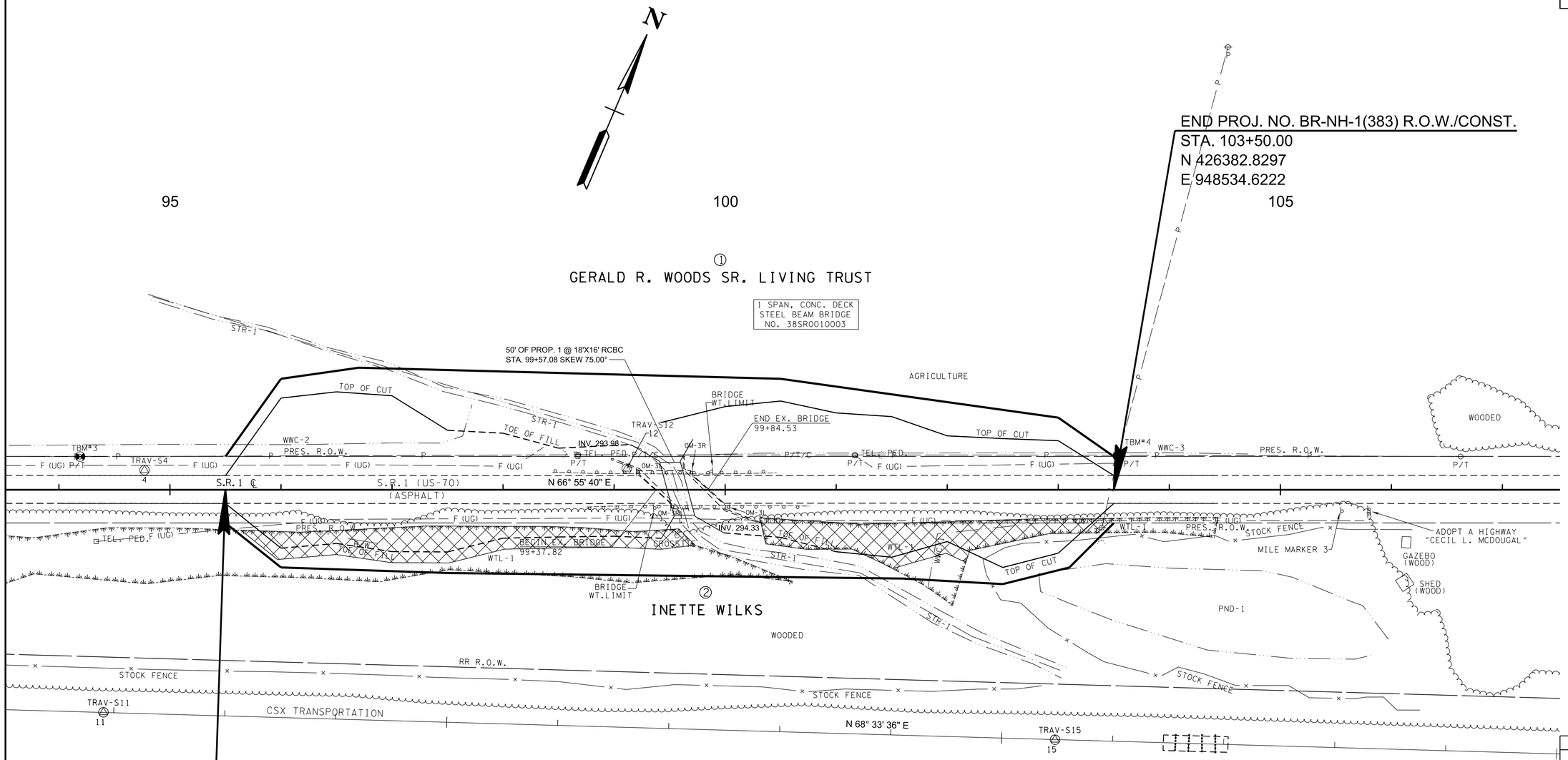
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP
AND
RIGHT-OF-WAY
ACQUISITION
TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	4



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S11	425841.7130	947776.1630	312.69	94+40.15	200.60' (RT)
S4	426056.9100	947724.6800	309.32	94+77.12	17.56' (LT)
S12	426228.3430	948123.7420	312.22	99+11.44	18.89' (LT)
S15	426154.8420	948574.3020	316.68	102+97.16	225.30' (RT)

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.3783 AC.
	VOLUME OF PERMANENT IMPACT = 610.3 C.Y.

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

SEALED BY

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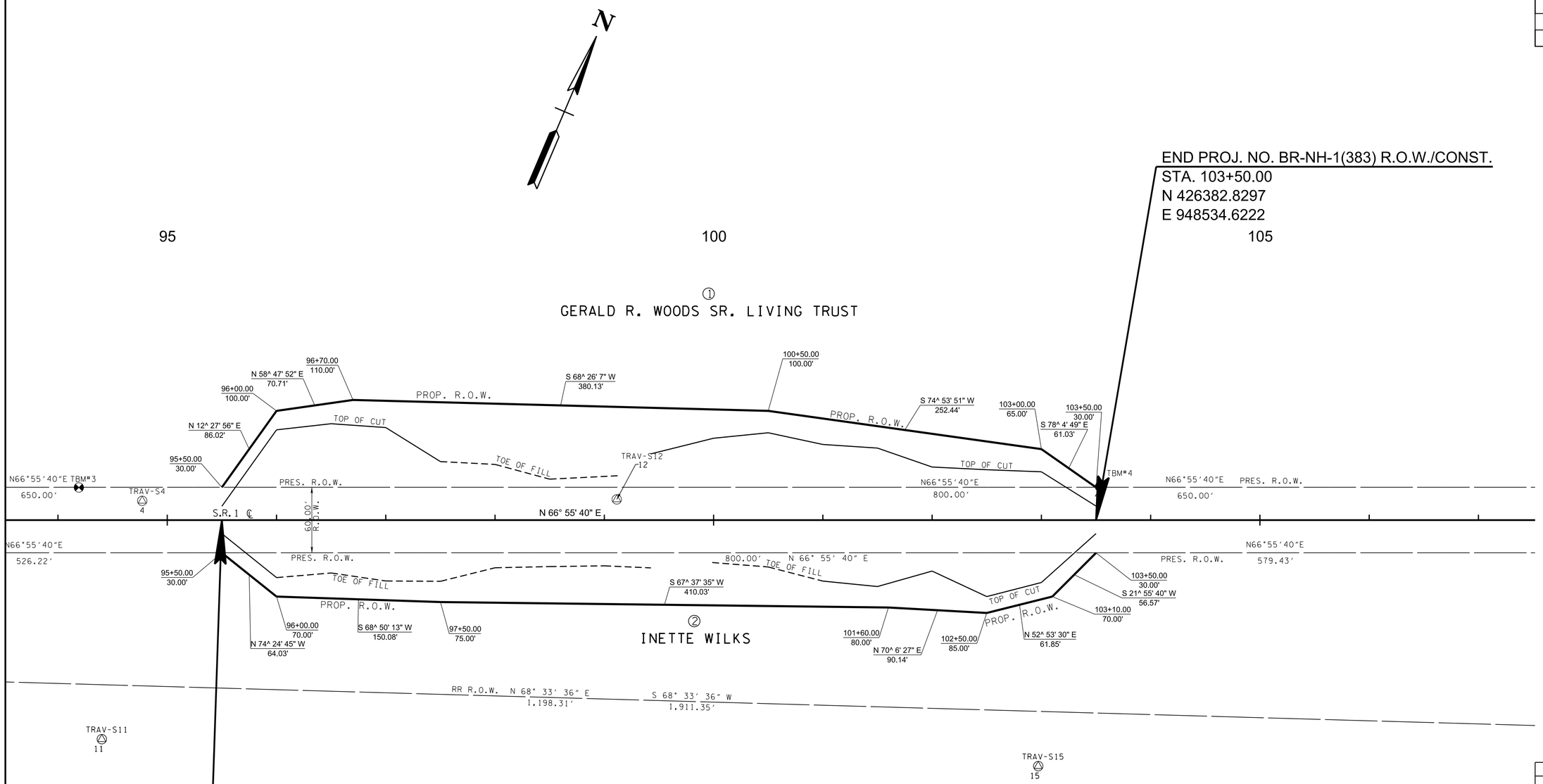
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 95+50 TO STA. 103+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	4A



BEGIN PROJ. NO. BR-NH-1(383) R.O.W./CONST.
STA. 95+50.00
N 426069.3168
E 947798.6130

CONTROL POINTS

POINT	NORTH	EAST	ELEV.	STATION	OFFSET
S11	425841.7130	947776.1630	312.69	94+40.15	200.60' (RT)
S4	426056.9100	947724.6800	309.32	94+77.12	17.56' (LT)
S12	426228.3430	948123.7420	312.22	99+11.44	18.89' (LT)
S15	426154.8420	948574.3020	316.68	102+97.16	225.30' (RT)

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

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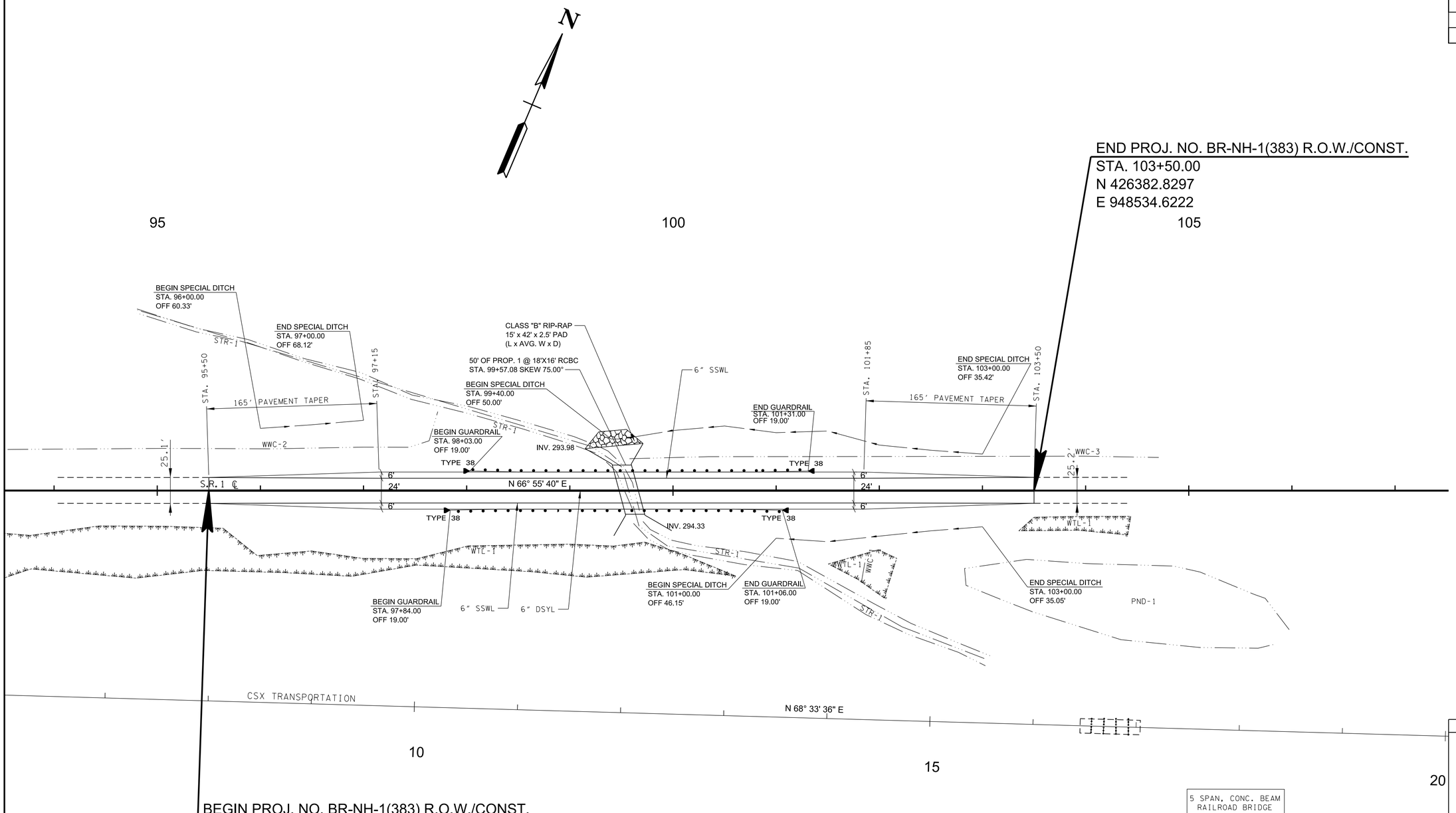
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 95+50 TO STA. 103+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	4B



CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

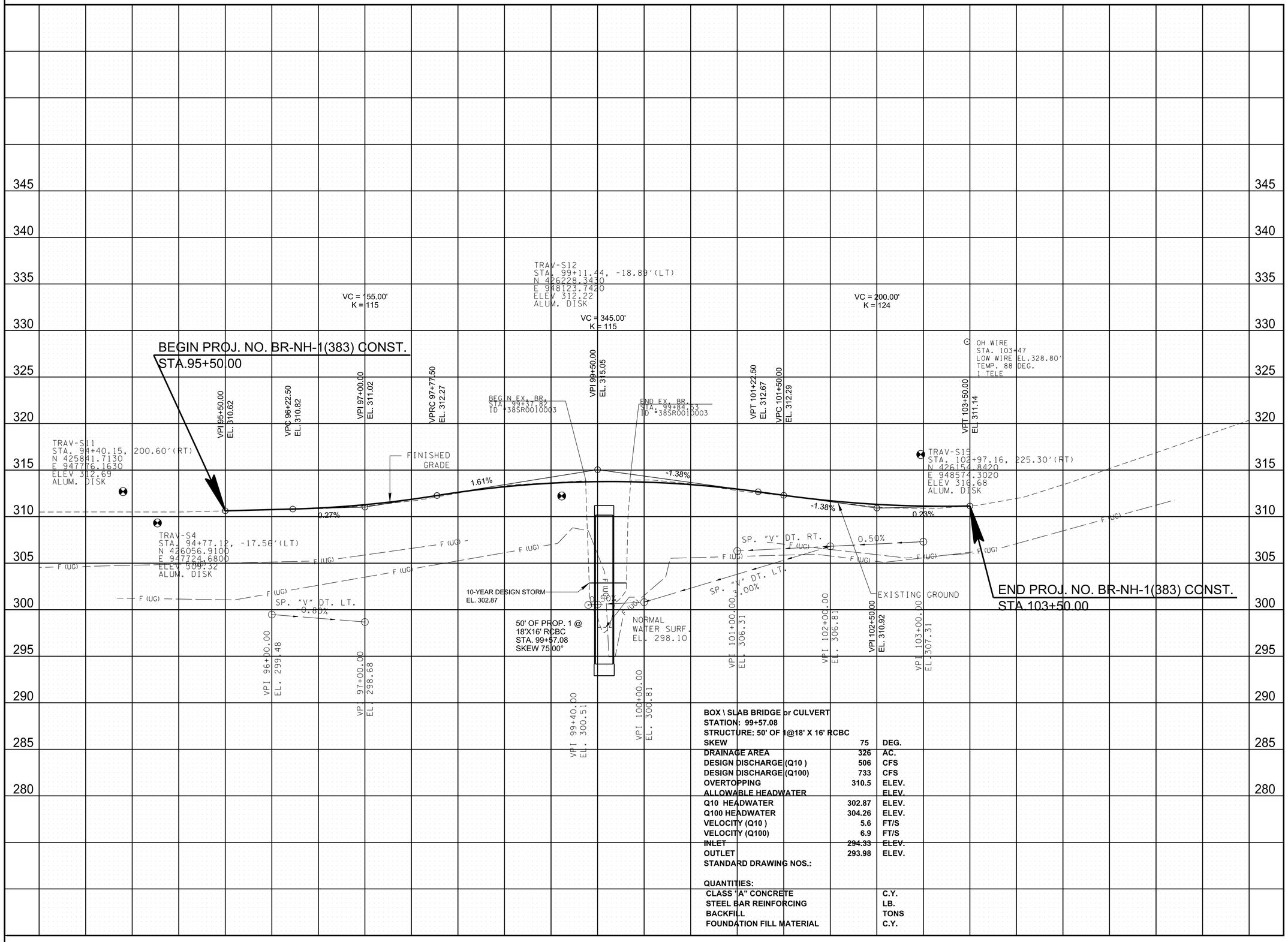
PROPOSED LAYOUT

STA. 95+50 TO STA. 103+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	4C

REV. 01-22-20: REVISED 10-YEAR DESIGN STORM ELEVATION IN PROFILE.



BOX \ SLAB BRIDGE or CULVERT		
STATION: 99+57.08		
STRUCTURE: 50' OF 1@18' X 16' RCBC		
SKEW	75	DEG.
DRAINAGE AREA	326	AC.
DESIGN DISCHARGE (Q10)	506	CFS
DESIGN DISCHARGE (Q100)	733	CFS
OVERTOPPING	310.5	ELEV.
ALLOWABLE HEADWATER		ELEV.
Q10 HEADWATER	302.87	ELEV.
Q100 HEADWATER	304.26	ELEV.
VELOCITY (Q10)	5.6	FT/S
VELOCITY (Q100)	6.9	FT/S
INLET	294.33	ELEV.
OUTLET	293.98	ELEV.
STANDARD DRAWING NOS.:		
QUANTITIES:		
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
BACKFILL		TONS
FOUNDATION FILL MATERIAL		C.Y.

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

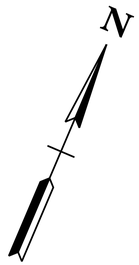
PROPOSED PROFILE

STA. 95+50 TO STA. 103+50

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

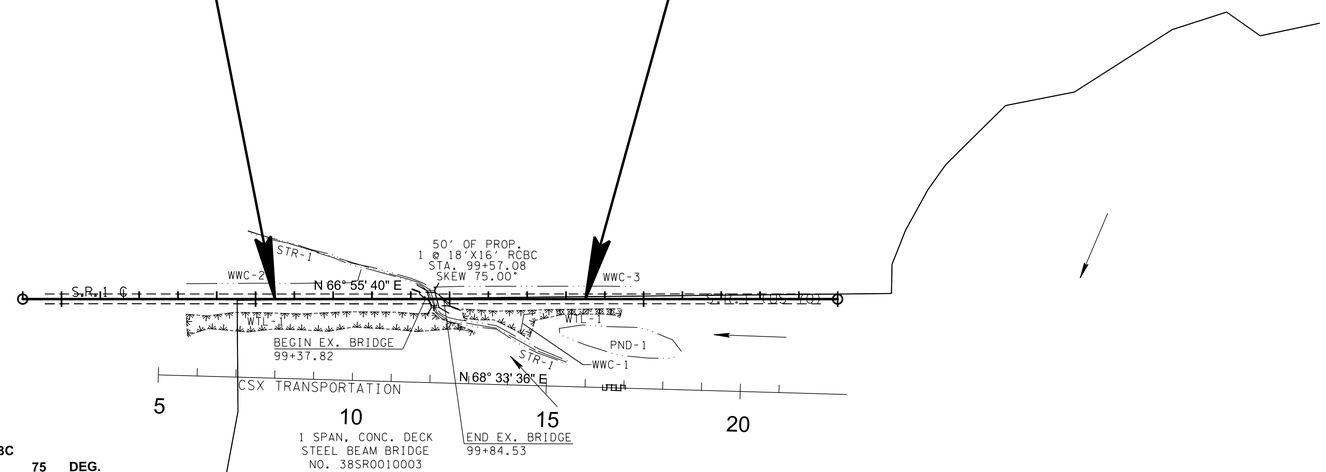
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	5



BEGIN PROJ. NO. BR-NH-1(383) R.O.W./CONST.
STA. 95+50.00
N 426069.3168
E 947798.6130

END PROJ. NO. BR-NH-1(383) R.O.W./CONST.
STA. 103+50.00
N 426382.8297
E 948534.6222



BOX \ SLAB BRIDGE or CULVERT

STATION: 99+57.08		
STRUCTURE: 50' OF 1@18' X 16' RCBC		
SKEW	**75**	**DEG.**
DRAINAGE AREA	**326**	**AC.**
DESIGN DISCHARGE (Q10)	**506**	**CFS**
DESIGN DISCHARGE (Q100)	**733**	**CFS**
OVERTOPPING	**310.5**	**ELEV.**
ALLOWABLE HEADWATER		**ELEV.**
Q10 HEADWATER	**302.87**	**ELEV.**
Q100 HEADWATER	**304.26**	**ELEV.**
VELOCITY (Q10)	**5.6**	**FT/S**
VELOCITY (Q100)	**6.9**	**FT/S**
INLET	**294.33**	**ELEV.**
OUTLET	**293.98**	**ELEV.**
STANDARD DRAWING NOS.:		

QUANTITIES:	
CLASS "A" CONCRETE	**C.Y.**
STEEL BAR REINFORCING	**LB.**
BACKFILL	**TONS**
FOUNDATION FILL MATERIAL	**C.Y.**

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

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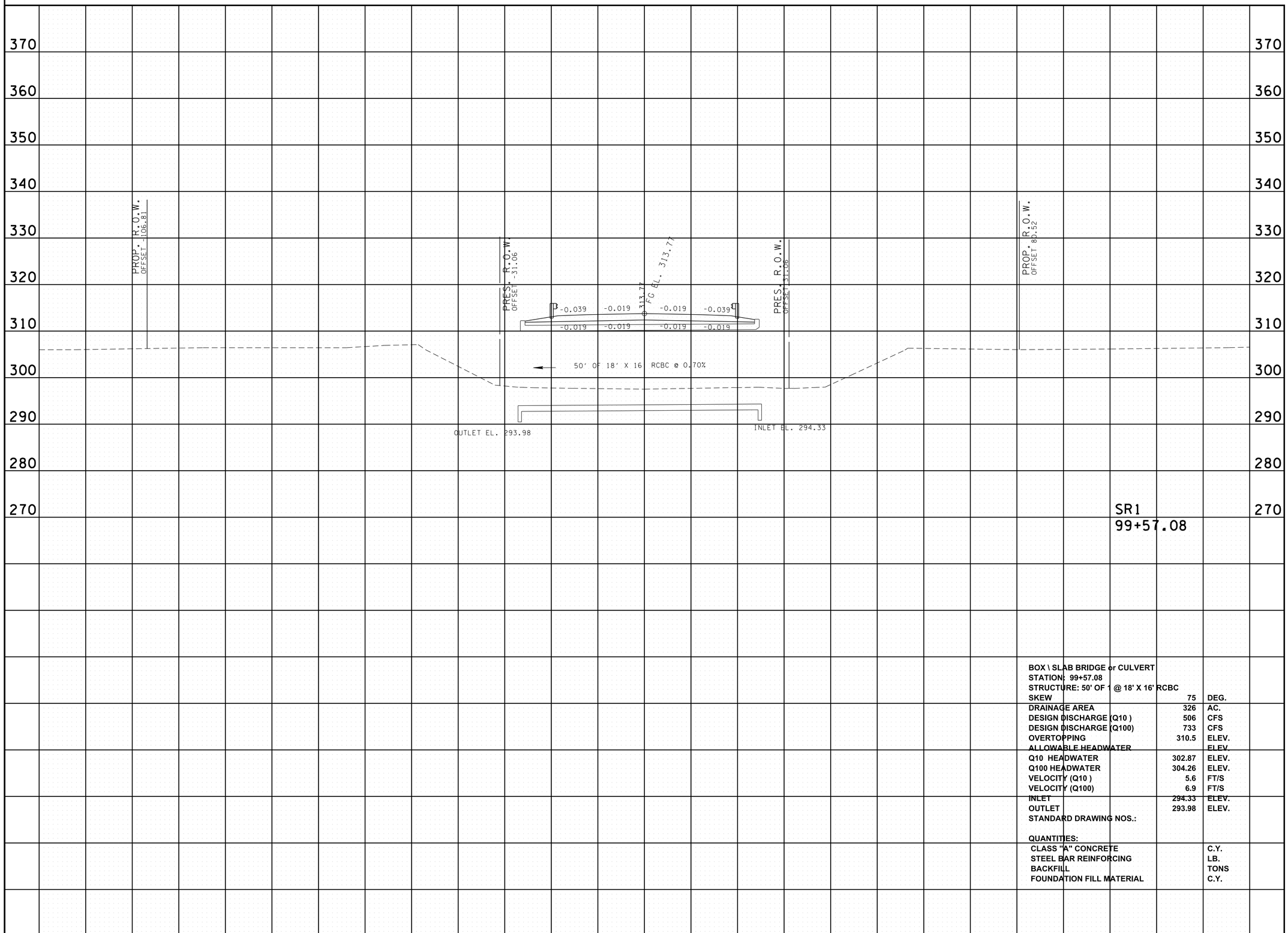
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 95+50 TO STA. 103+50
SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	6



SR1
99+57.08

BOX \ SLAB BRIDGE or CULVERT
STATION: 99+57.08
STRUCTURE: 50' OF 1 @ 18' X 16' RCBC

SKEW	75	DEG.
DRAINAGE AREA	326	AC.
DESIGN DISCHARGE (Q10)	506	CFS
DESIGN DISCHARGE (Q100)	733	CFS
OVERTOPPING	310.5	ELEV.
ALLOWABLE HEADWATER		ELEV.
Q10 HEADWATER	302.87	ELEV.
Q100 HEADWATER	304.26	ELEV.
VELOCITY (Q10)	5.6	FT/S
VELOCITY (Q100)	6.9	FT/S
INLET	294.33	ELEV.
OUTLET	293.98	ELEV.

STANDARD DRAWING NOS.:

QUANTITIES:

CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
BACKFILL		TONS
FOUNDATION FILL MATERIAL		C.Y.

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

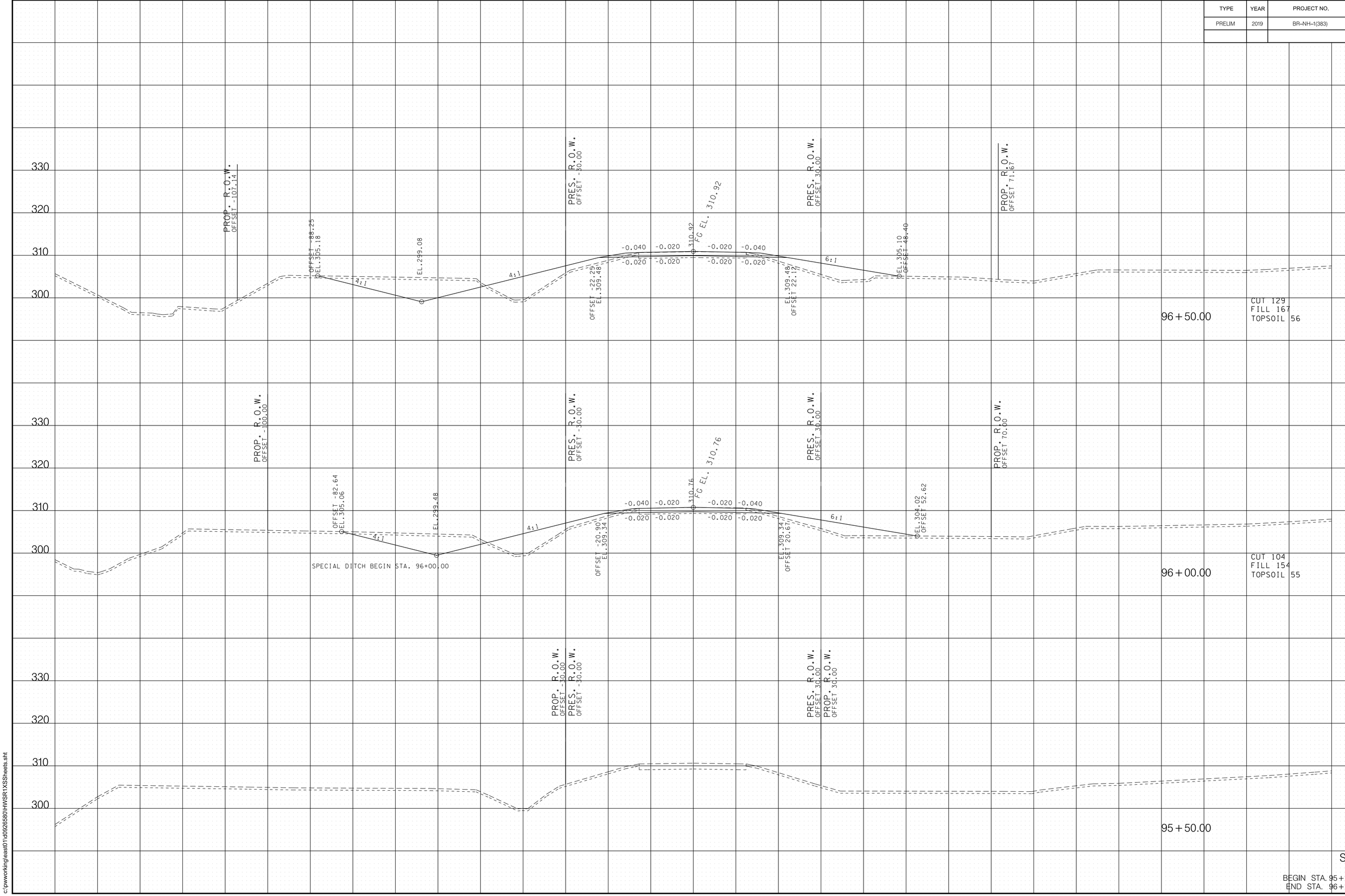
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CULVERT SECTION

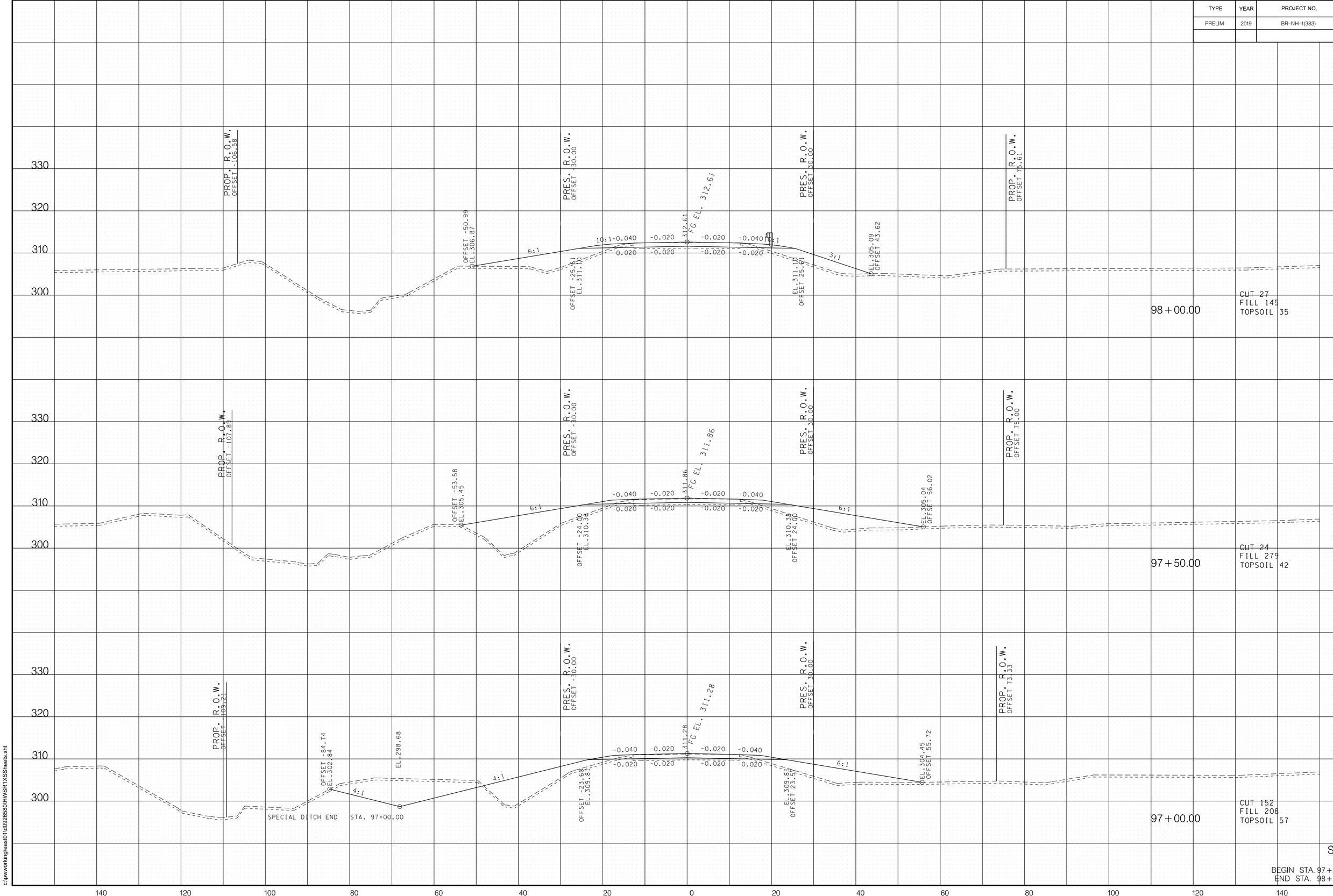
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	7



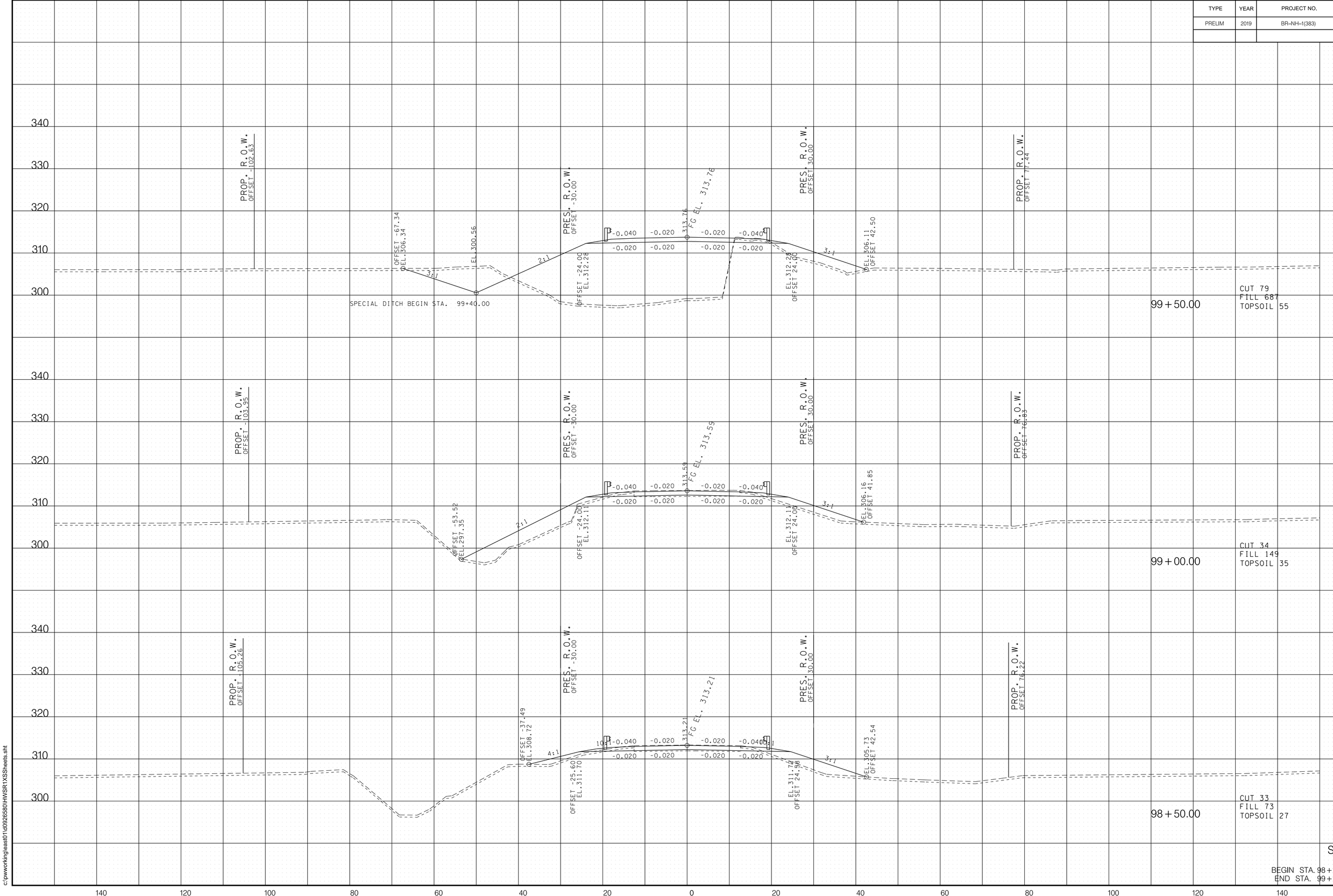
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	8



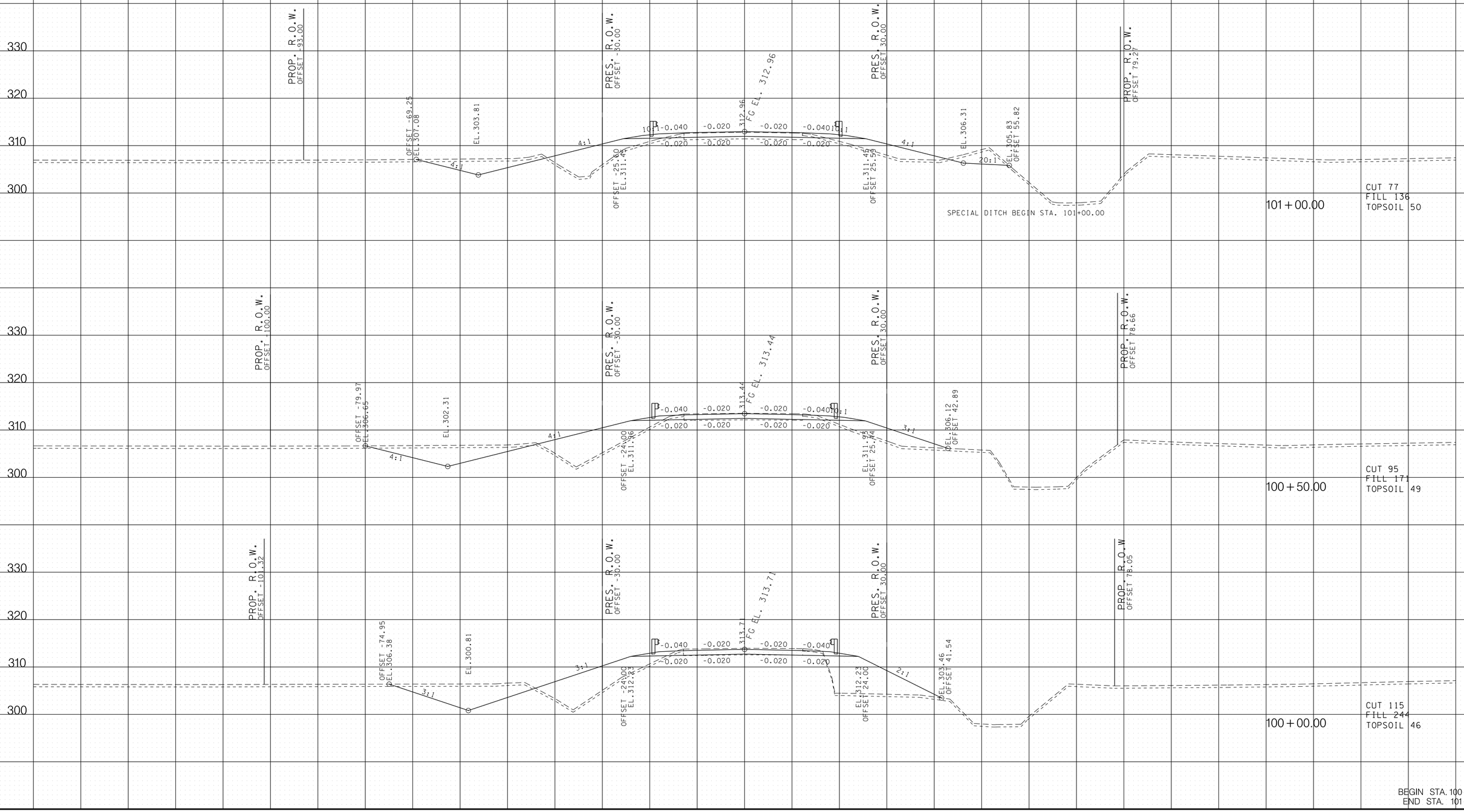
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	9



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	10

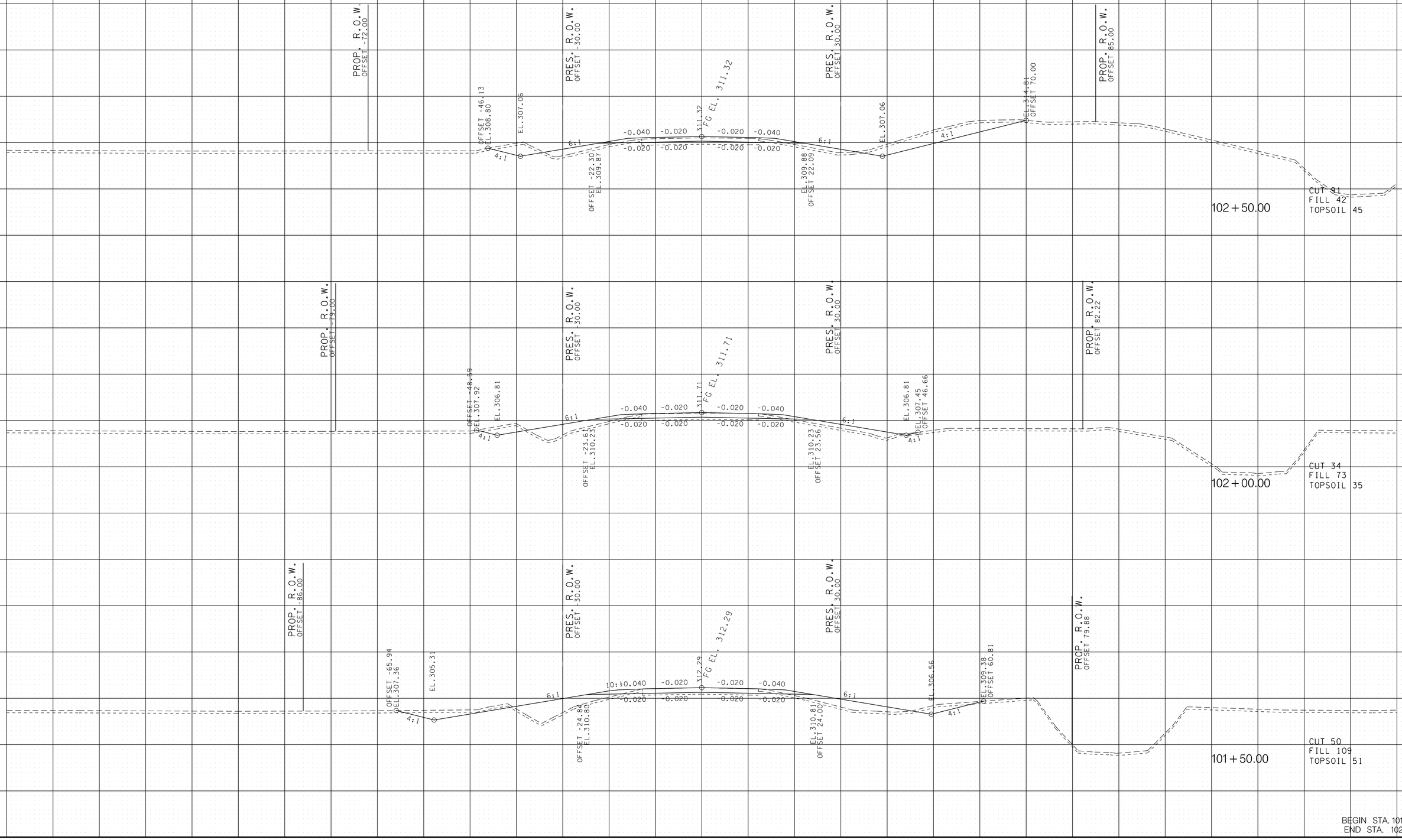


SR 1

BEGIN STA. 100+00.00
END STA. 101+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-NH-1(383)	11

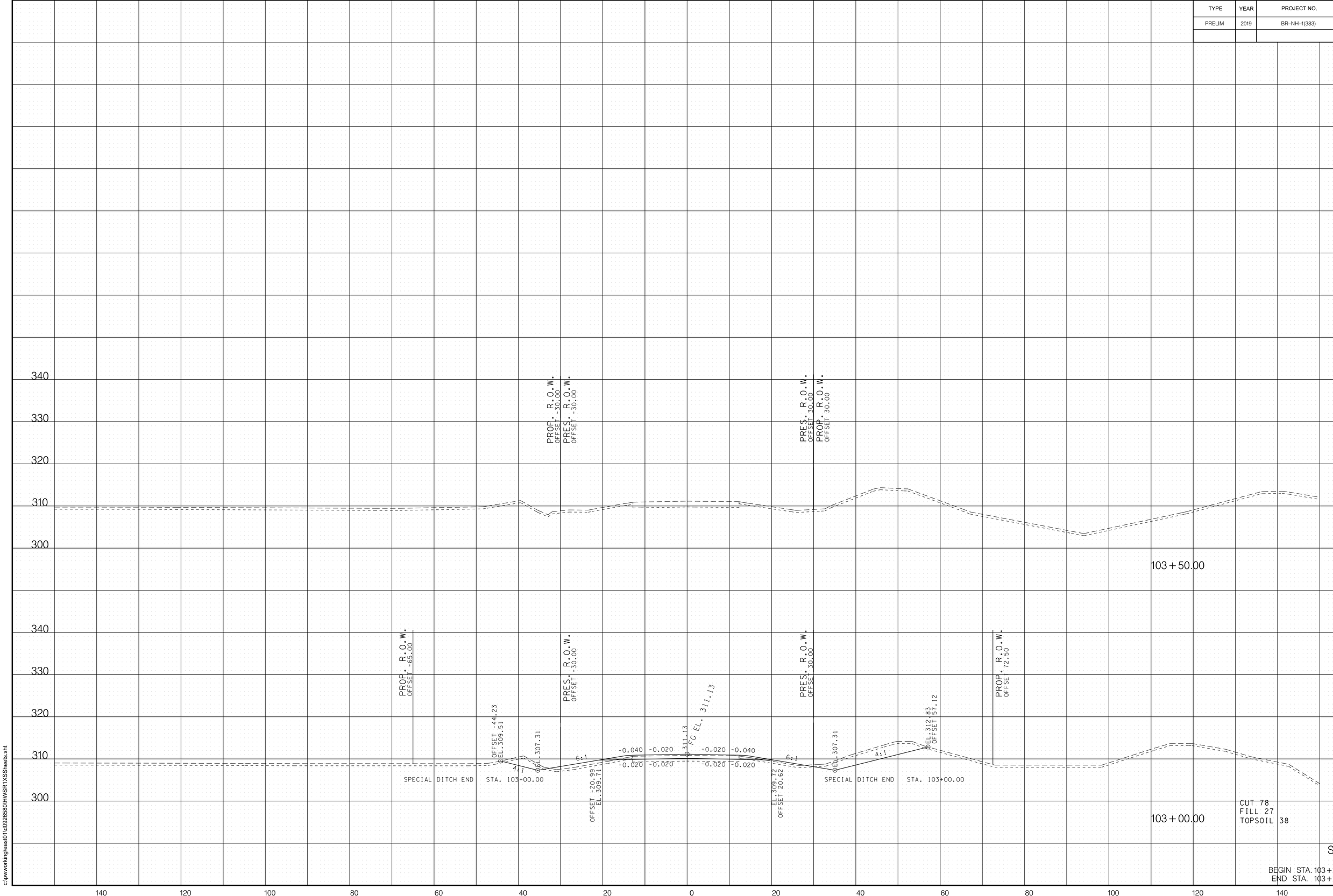


SR 1

BEGIN STA. 101+50.00
END STA. 102+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR–NH–1(383)	12



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Index Of Sheets

PRELIMINARY INDEX OF SHEETS

TITLE SHEET 1
TYPICAL SECTIONS 2B
RIGHT-OF-WAY NOTES, UTILITY NOTES and UTILITY OWNERS 3
RIGHT-OF-WAY ACQUISITION TABLE(S) and PROPERTY MAP(S) 3A
PRESENT LAYOUT(S) 4
RIGHT OF WAY DETAILS 4A
PROPOSED LAYOUT(S) 4B
PROPOSED PROFILE(S) 4C
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE(S) 5
DRAINAGE MAP(S) 6
CULVERT SECTION(S) 7
ROADWAY CROSS SECTIONS 8-17

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES X	NO

TENN.	YEAR	SHEET NO.
	2019	1
FED. AID PROJ. NO.	BR-STP-87(9)	
STATE PROJ. NO.	49006-0241-94	

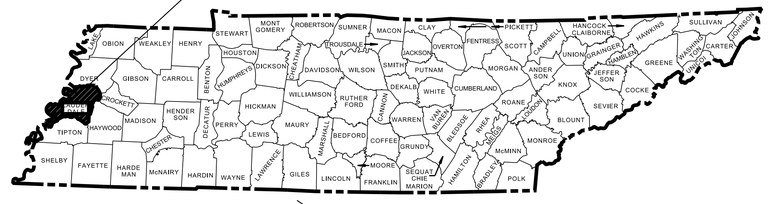
LAUDERDALE COUNTY

S.R. 87 BRIDGE REPLACEMENT
OVER OVERFLOW AT L.M. 3.88

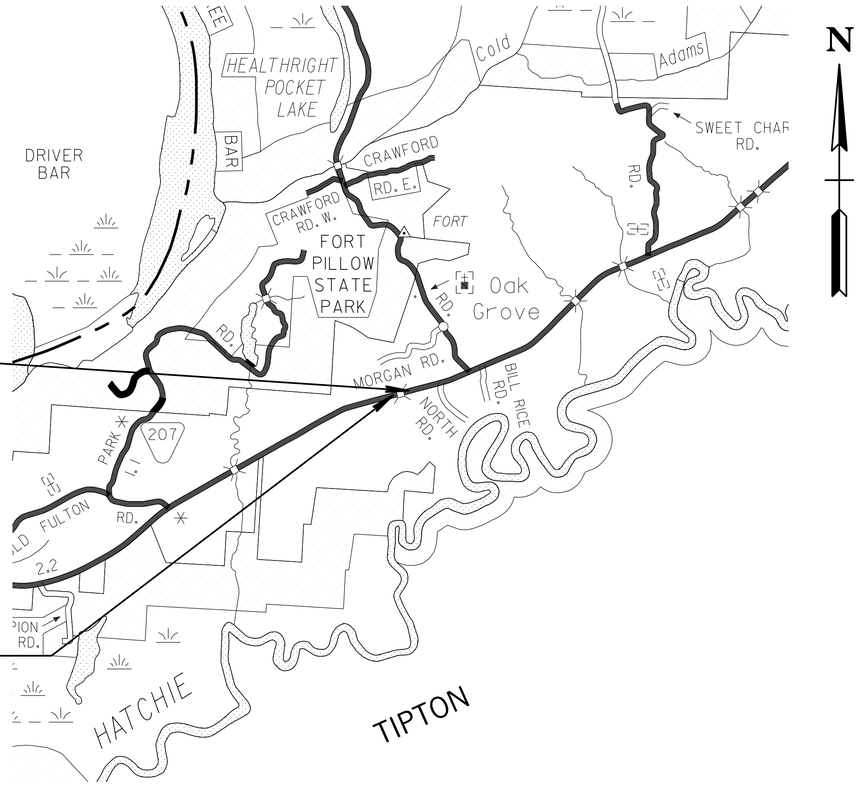
PRELIMINARY

STATE HIGHWAY NO. 87 U.S. ROUTE NO.

PROJECT LOCATION
BRIDGE ID. # 49SR0870011



PROJECT LOCATION
BRIDGE ID. #



N

SCALE: 1"= 1/2 MILES

0 0.5 1.0 1.5 MILES

NO EXCLUSIONS

PRELIMINARY PLANS

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

49006-0241-94
END PROJECT NO. BR-STP-87(9) PRELIMINARY

STA. 111+50.00

N 493203.6035 E 832072.0596

49006-0241-94
BEGIN PROJECT NO. BR-STP-87(9) PRELIMINARY

STA. 104+50.00

N 493023.5480 E 831395.6142

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

DATE:

APPROVED: Clay Bright
CLAY BRIGHT, 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 : STEPHANIE KISSELL

DESIGNED BY : HDR ENGINEERING, INC.

DESIGNER : GREG CLUCKER CHECKED BY KEVIN CAGLE

P.E. NO. 49006-0241-94 (NEPA)

PIN NO. 128113.05

R.O.W. LENGTH	0.132 MILES
ROADWAY LENGTH	0.132 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.132 MILES

▲ Not included in the project length (Non Riding Surface).

S.R. 87

SURVEY 08-30-18	TRAFFIC DATA	
	ADT (2022)	410
	ADT (2042)	490
	DHV (2042)	64
	D	65 - 35
	T (ADT)	14 %
	T (DHV)	9 %
	V	55 MPH

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

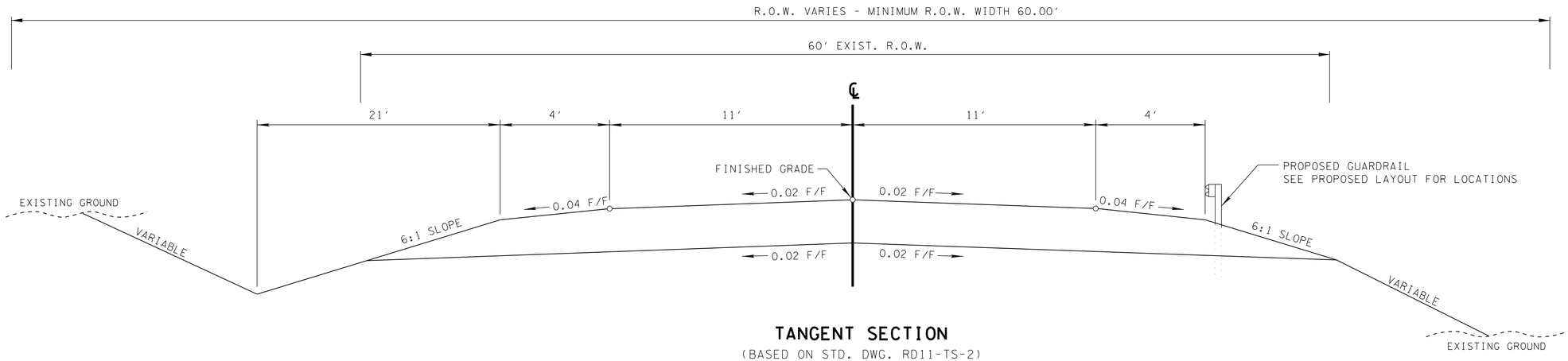
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	2B



TANGENT SECTION

(BASED ON STD. DWG. RD11-TS-2)

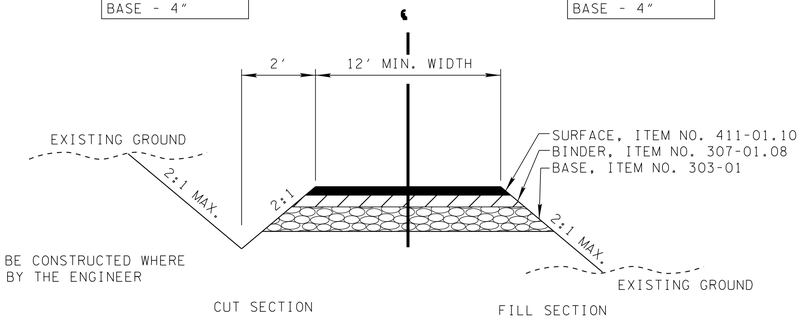
STA. 104+50.00 TO STA. 105+60.00 (PAVEMENT TAPER)
STA. 105+60.00 TO STA. 110+40.00
STA. 110+40.00 TO STA. 111+50.00 (PAVEMENT TAPER)

BUSINESS

SURFACE - 1¼"
BINDER - 2"
BASE - 4"

FIELD OR RESIDENTIAL

SURFACE - 1½"
BINDER - NONE
BASE - 4"

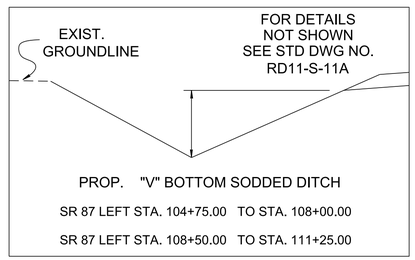


NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

SPECIAL DITCHES



PROP. "V" BOTTOM SODDED DITCH

SR 87 LEFT STA. 104+75.00 TO STA. 108+00.00

SR 87 LEFT STA. 108+50.00 TO STA. 111+25.00

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	3

RIGHT-OF-WAY

(1) 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.

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

(3) 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.

(4) 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.

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

(6) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(7) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

UTILITY

(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 ITS 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 OWNERS

TELEPHONE:

AT&T
315 EAST COLLEGE ST.
JACKSON, TN 38301
CONTACT: COREY BARTHOLOMEW
OFFICE PHONE: 731- 423- 0521
CELL PHONE:
Email:

WATER:

LAUDERDALE COUNTY WATER SYSTEM
550 CENTRAL CURVE RD.
RIPLEY, TN 38063
CONTACT: RANDY NEWMAN
OFFICE PHONE: 731- 635- 2711
CELL PHONE:
Email: LAUDERDALEWATER@YAHOO.COM

ELETRIC:

SOUTHWEST TENNESSEE ELECTRIC MEMBERSHIP CORPORATION
1800 HWY. 51 SOUTH.
COVINGTON, TN 38019
CONTACT: BRAD OSBORN
OFFICE PHONE: 901- 476- 9839
CELL PHONE: 901- 622- 0305
Email:

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

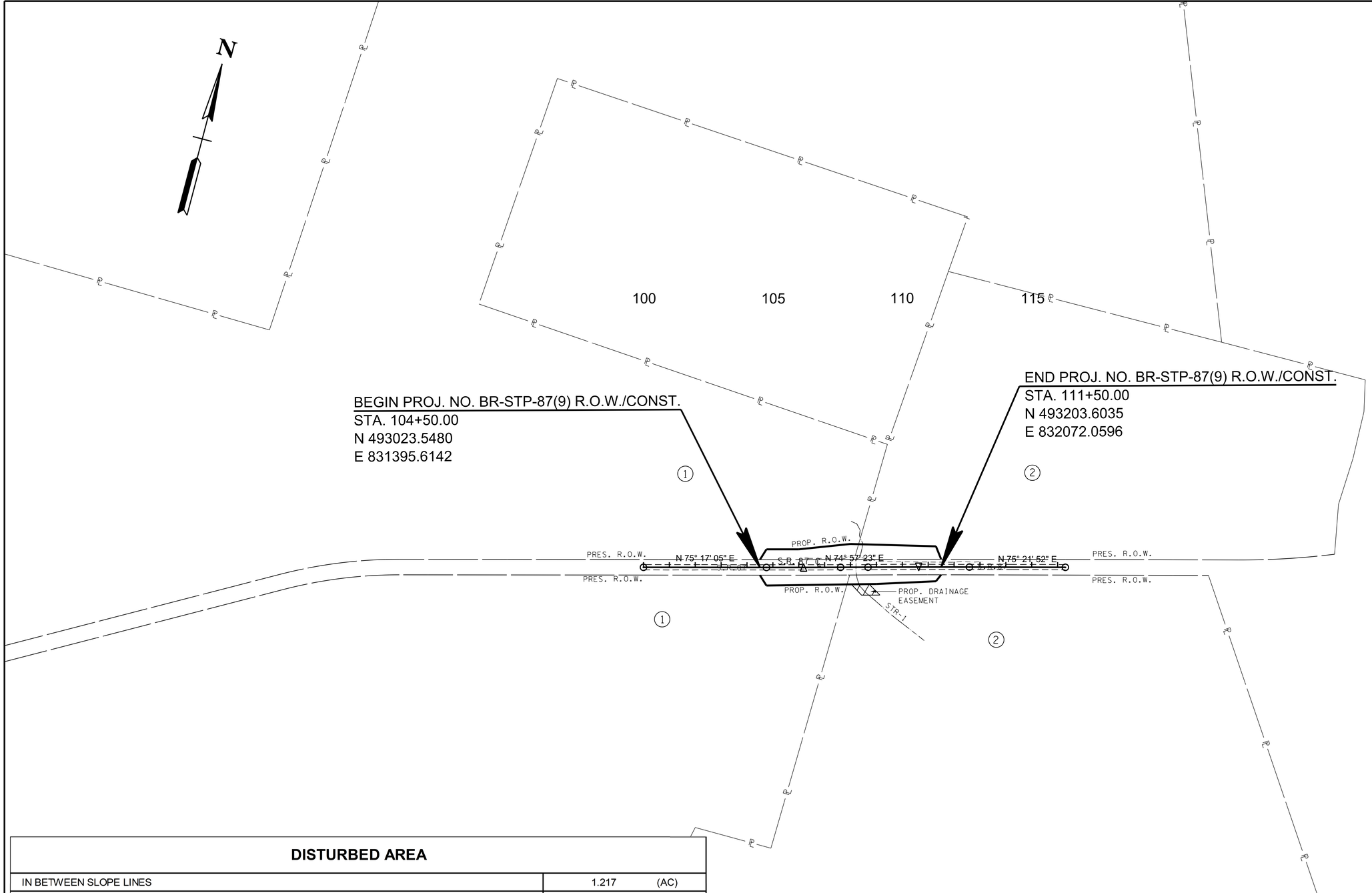
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	3A



DISTURBED AREA

IN BETWEEN SLOPE LINES	1.217	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	0.551	(AC)
TOTAL DISTURBED AREA	1.768	(AC)

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA (ACRES)			AREA TO BE ACQUIRED (ACRES)			AREA REMAINING (ACRES)		EASEMENT (ACRES)			
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BOOK	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION	AIR RIGHTS
1	William F Ozment & Marilyn & Lanier John B -TR John Bussey Lanier Trust	147	006.00	681	419	305.320	191.470	496.790	0.387	0.287	0.674	304.933	191.183				
2	Richard Stephen Sullivan Richard Vanhersett & wife	147	007.00	168	444	37.290	132.210	169.500	0.396	0.253	0.649	36.894	131.957	2957 S.F.			
ACQUISITION TOTALS (ACRES)										1.323				2957 S.F.			

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP AND RIGHT-OF-WAY ACQUISITION TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	4

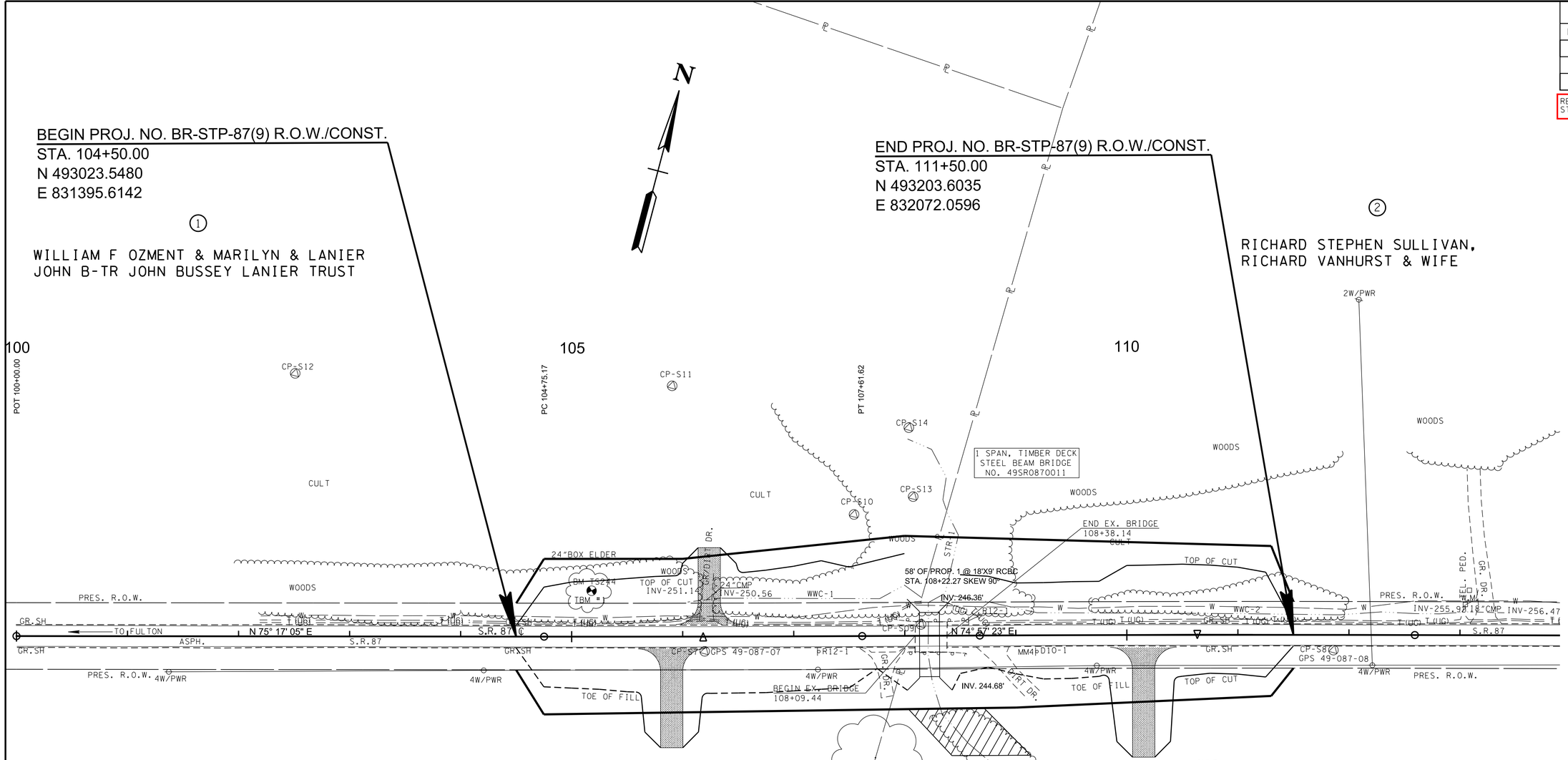
REV. 01-22-20: REVISED PROPOSED STRUCTURE AT STA. 108+22.27.

BEGIN PROJ. NO. BR-STP-87(9) R.O.W./CONST.
STA. 104+50.00
N 493023.5480
E 831395.6142

END PROJ. NO. BR-STP-87(9) R.O.W./CONST.
STA. 111+50.00
N 493203.6035
E 832072.0596

WILLIAM F OZMENT & MARILYN & LANIER
JOHN B-TR JOHN BUSSEY LANIER TRUST

RICHARD STEPHEN SULLIVAN,
RICHARD VANHURST & WIFE



① WILLIAM F OZMENT & MARILYN & LANIER JOHN B-TR JOHN BUSSEY LANIER TRUST

Point	North	East	Station	Offset	Desc.
S7	493053.9886	831563.2732	106+19.85	13.3557	GPS 49-087-07
S8	493199.4572	832110.4706	111+86.10	13.7770	GPS 49-087-08
S9	493127.1037	831745.4092	108+14.69	-10.1804	XCP
S10	493207.4282	831661.8638	107+54.84	-109.4362	XCP
S11	493277.6215	831473.9452	105+90.82	-225.7091	XCP
S12	493201.8973	831142.8189	102+50.80	-236.7139	XCP
S13	493236.5575	831709.2647	108+08.19	-125.2645	XCP
S14	493295.5641	831689.6301	108+04.54	-187.3451	XCP

SR 87
PI 106+18.40
N 493,066.3247
E 831,558.4908
Δ 0° 19' 42" (LT)
D 0° 06' 53"
R 50,000.00
L 286.45
T 143.23
SE NC
DESIGN SPEED 55 MPH

PC 108+67.55

② RICHARD STEPHEN SULLIVAN, RICHARD VANHURST & WIFE

SR 87
PI 110+63.45
N 493,181.8388
E 831,988.2852
Δ 0° 24' 29" (RT)
D 0° 06' 15"
R 55,000.00
L 391.80
T 195.90
SE NC
DESIGN SPEED 55 MPH

PT 112+59.35

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 104+50 TO STA. 111+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	4A

BEGIN PROJ. NO. BR-STP-87(9) R.O.W./CONST.
STA. 104+50.00
N 493023.5480
E 831395.6142

END PROJ. NO. BR-STP-87(9) R.O.W./CONST.
STA. 111+50.00
N 493203.6035
E 832072.0596

N

① WILLIAM F OZMENT & MARILYN & LANIER
JOHN B-TR JOHN BUSSEY LANIER TRUST

② RICHARD STEPHEN SULLIVAN,
RICHARD VANHURST & WIFE

100 105 110

CP-S12 CP-S11 CP-S14 CP-S10 CP-S13 CP-S09 CP-S7 GPS 49-087-07 CP-S8 GPS 49-087-08

℄ S 1° 18' 29" W 401.54'

100+00.00 30.00' PRES. R.O.W.
N 75° 17' 5" E 450.00'
104+50.00 30.00'
S 17^ 17' 24" W 47.17'
104+75.17 30.00'
104+75.00 70.00'
N 75^ 12' 47" E 124.83'
106+00.00 70.00'
R=49970.00' L=286.28'
N 69^ 18' 48" E 200.75'
PROP. R.O.W.
N 74° 57' 23" E 52.56'
BM TS244
TBM #1
TOP OF CUT
S 75° 17' 5" W 25.17'
107+61.62 30.00'
108+00.00 90.00'
S 76^ 47' 55" W 31.51'
108+14.19 30.00'
S 1° 18' 29" W 61.47'
108+31.50 88.99'
N 74° 57' 23" E 53.36'
S 76^ 47' 55" W 299.04'
108+67.55 30.00'
R=55030.00' L=282.60'
111+30.00 80.00'
S 36^ 34' 52" E 53.86'
111+50.00 30.00'
R=55030.00' L=109.41'
112+59.35 30.00' PRES. R.O.W.

N 75° 17' 05" E S.R. 87 ℄ N 74° 57' 23" E

100+00.00 30.00' PRES. R.O.W.
N 75° 17' 5" E 450.00'
S 75° 17' 5" W 25.17'
104+50.00 30.00'
S 46^ 43' 15" E 47.17'
104+75.17 30.00'
104+75.00 70.00'
TOE OF FILL
PROP. R.O.W.
R=50030.00' L=286.63'
S 74^ 23' 42" W 311.40'
107+61.62 30.00'
S 74° 57' 23" W 34.96'
107+96.59 30.00'
S 74° 57' 23" W 70.96'
108+03.00 65.96'
S 1° 18' 29" W 37.65'
108+71.00 65.29'
S 74^ 23' 42" W 68.90'
N 57^ 23' 42" W 57.34'
N 59^ 29' 42" W 58.45'
S 74^ 58' 17" W 70.91'
107+85.99 66.13'
108+42.00 108.00'
S 74^ 23' 42" W 17.02'
PROP. DRAINAGE EASEMENT
109+00.00 65.00'
S 74^ 23' 42" W 28.97'
109+13.00 108.00'
R=54970.00' L=391.58'
S 72^ 37' 4" W 229.97'
TOP OF CUT
111+50.00 30.00'
S 23^ 52' 42" W 32.01'
111+30.00 55.00'
112+59.35 30.00' PRES. R.O.W.

℄ S 1° 18' 29" W 1060.95'

① WILLIAM F OZMENT & MARILYN & LANIER
JOHN B-TR JOHN BUSSEY LANIER TRUST

② RICHARD STEPHEN SULLIVAN,
RICHARD VANHURST & WIFE

Point	North	East	Station	Offset	Desc.
S7	493053.9886	831563.2732	106+19.85	13.3557	GPS 49-087-07
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S12	493201.8973	831142.8189	102+50.80	-236.7139	XCP
S13	493236.5575	831709.2647	108+08.19	-125.2645	XCP
S14	493295.5641	831689.6301	108+04.54	-187.3451	XCP

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 104+50 TO STA. 111+50
SCALE: 1"= 50'

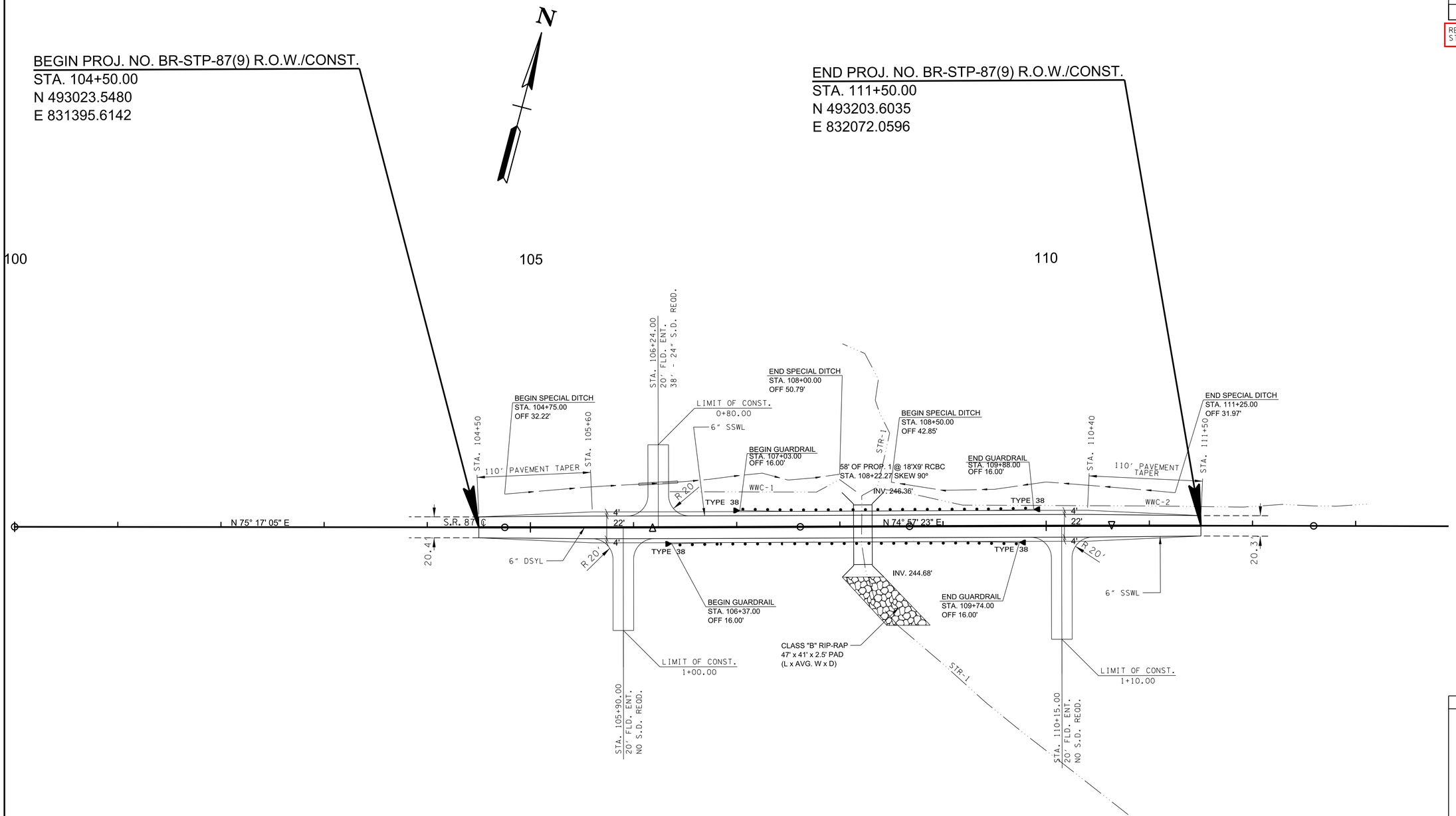
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	4B

REV. 01-22-20: REVISED PROPOSED STRUCTURE AT STA. 108+22.27.

BEGIN PROJ. NO. BR-STP-87(9) R.O.W./CONST.
STA. 104+50.00
N 493023.5480
E 831395.6142

END PROJ. NO. BR-STP-87(9) R.O.W./CONST.
STA. 111+50.00
N 493203.6035
E 832072.0596



CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 104+50 TO STA. 111+50
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	4C

REV. 01-22-20: REVISED 10-YEAR DESIGN STORM ELEVATION IN PROFILE. REVISED PROPOSED STRUCTURE AT STA. 108+22.27.

XCP-S12
STA. 102+50.80, -236.71'(LT)
N 493201.8973
E 831142.8189
ELEV 266.86
ALUM. DISK

XCP-S11
STA. 105+90.82, -225.71'(LT)
N 493277.6215
E 831473.9452
ELEV 267.06
ALUM. DISK

XCP-S7
STA. 106+19.85, 13.36'(RT)
N 493053.9886
E 831553.2752
ELEV 255.29
ALUM. DISK

XCP-14
STA. 108+04.54, -187.35'(LT)
N 493295.5641
E 831689.6301
ELEV 257.85
ALUM. DISK

XCP-S9
STA. 108+14.69, -10.18'(LT)
N 493127.1037
E 831745.4092
ELEV 257.69
ALUM. DISK

XCP-S10
STA. 107+54.84, -109.44'(LT)
N 493207.4282
E 831661.8638
ELEV 254.99
ALUM. DISK

XCP-S13
STA. 108+08.19, -125.26'(LT)
N 493236.5575
E 831709.2647
ELEV 255.88
ALUM. DISK

XCP-S8
STA. 111+86.10, 13.78'(RT)
N 493199.4572
E 832110.4706
ELEV 257.47
ALUM. DISK

VPI 104+50.00 EL. 255.16
VPI 104+75.00 EL. 251.50
VPC 106+16.00 EL. 255.66
VPI 106+91.00 EL. 255.89
VPI 107+50.00 EL. 250.00
VPRC 107+66.00 EL. 257.05
VPI 108+00.00 EL. 249.00
VPI 108+50.00 EL. 249.99
VPI 108+66.00 EL. 258.59
VPI 109+00.00 EL. 252.99
VPT 109+66.00 EL. 258.41
VPI 110+21.00 EL. 258.31
VPI 111+00.00 EL. 258.16
VPI 111+25.00 EL. 254.34
VPI 111+50.00 EL. 258.00

VC = 150.00'
K = 120

VC = 200.00'
K = 116

S-R-87 STA 108+22.27=
OVERFLOW STA. 33+39.09

BEGIN EX. BR.
STA. 108+09.14
ID #49SR0870011

END EX. BR.
STA. 108+38.14
ID #49SR0870011

FINISHED GRADE

1.54%
0.30%
0.55%
SP. "V" DT. LT.
10-YEAR DESIGN STORM EL. 250.09
2.00%
N.W.247.87
H.W. 250.56
6.00%
-0.18%
-0.18%
-0.18%
-0.33%
0.60%
SP. "V" DT. LT.
EXISTING GROUND

OH WIRE
STA. 112+20.15
LOW WIRE EL.280.83'
TEMP. 90 DEG.
2W/POWER

BEGIN PROJ. NO. BR-STP-87(9) CONST.
STA. 104+50.00

END PROJ. NO. BR-STP-87(9) CONST.
STA. 111+50.00

BOX \ SLAB BRIDGE or CULVERT		
STATION: 108+22.27		
STRUCTURE: 58' OF 1@18' X 9' RCBC		
SKEW	90	DEG.
DRAINAGE AREA	25.6	AC.
DESIGN DISCHARGE (Q10)	128	CFS
DESIGN DISCHARGE (Q100)	176	CFS
OVERTOPPING	255.01	ELEV.
ALLOWABLE HEADWATER		ELEV.
Q10 HEADWATER	250.09	ELEV.
Q100 HEADWATER	250.42	ELEV.
VELOCITY (Q10)	7.1	FT/S
VELOCITY (Q100)	8.1	FT/S
INLET	246.36	ELEV.
OUTLET	244.68	ELEV.
STANDARD DRAWING NOS.:		
QUANTITIES:		
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
BACKFILL		TONS
FOUNDATION FILL MATERIAL		C.Y.

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

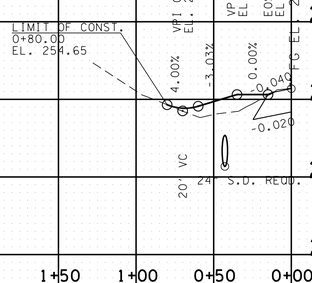
PROPOSED PROFILE

STA. 104+50 TO STA. 111+50

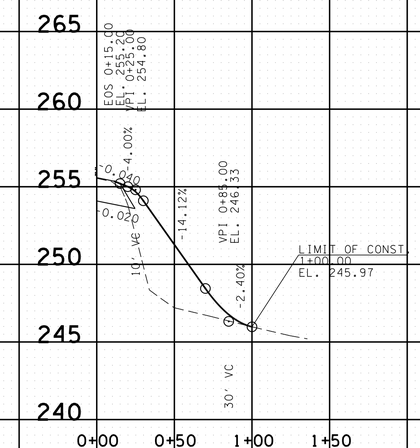
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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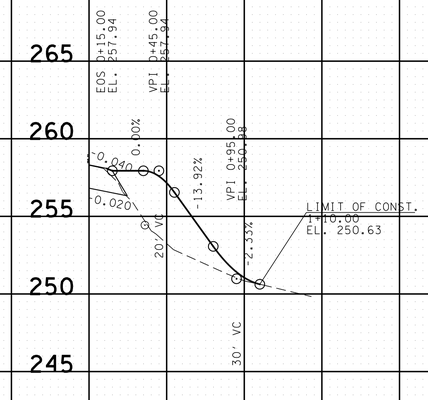
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	5



20' FLD. ENT. LT. 106+24.00
S.R. 87
TRACT NO. 1



20' FLD. ENT. RT. 105+90.00
S.R. 87
TRACT NO. 1



20' FLD. ENT. RT. 110+15.00
S.R. 87
TRACT NO. 2

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

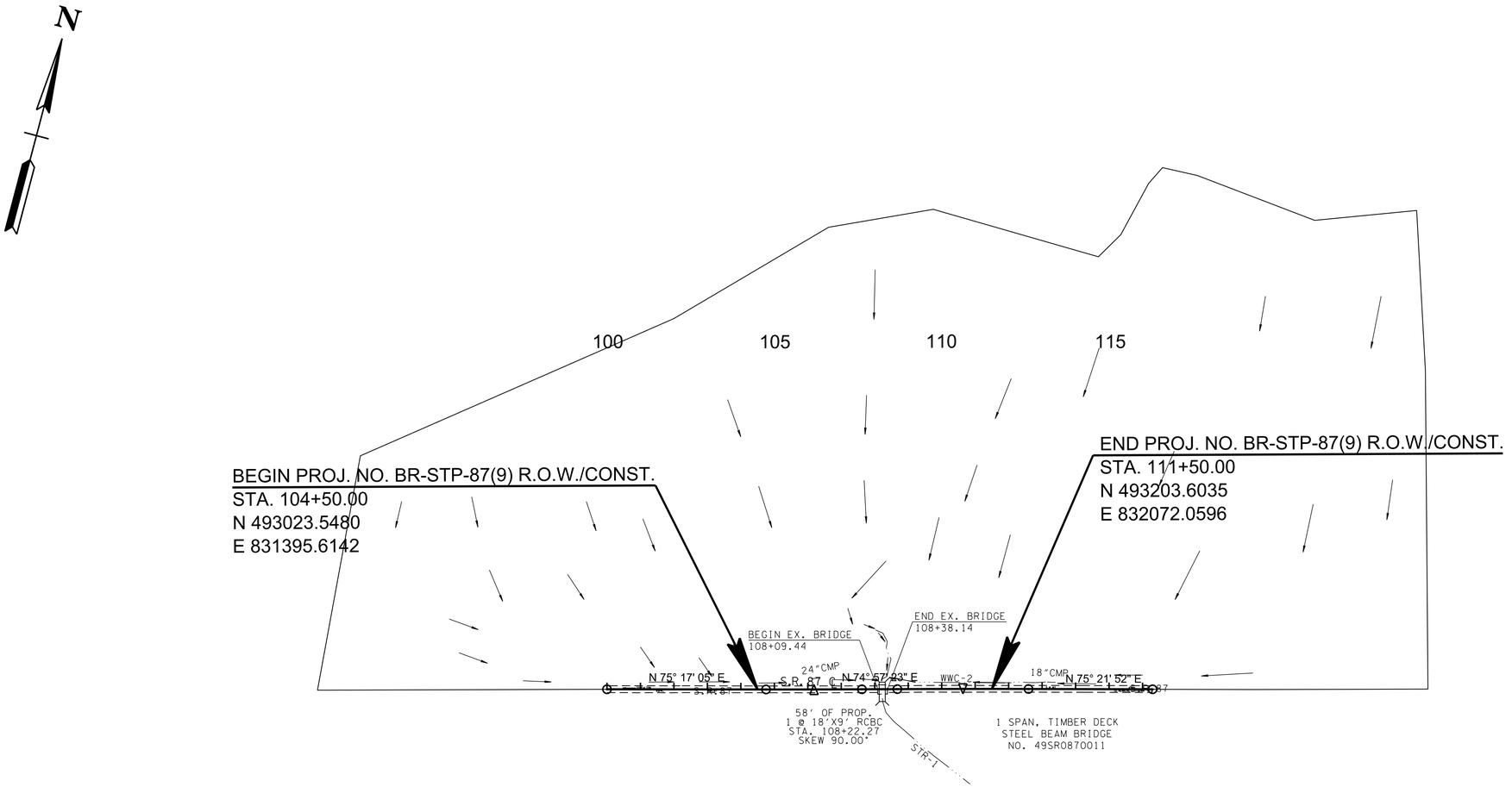
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	6

REV. 01-22-20: REVISED PROPOSED STRUCTURE AT STA. 108+22.27.



BOX \ SLAB BRIDGE or CULVERT
STATION: 108+22.27
STRUCTURE: 58' OF 1@18' X 9' RCBC

SKEW	**90**	**DEG.**
DRAINAGE AREA	**25.6**	**AC.**
DESIGN DISCHARGE (Q10)	**128**	**CFS**
DESIGN DISCHARGE (Q100)	**176**	**CFS**
OVERTOPPING	**255.01**	**ELEV.**
ALLOWABLE HEADWATER		**ELEV.**
Q10 HEADWATER	**250.09**	**ELEV.**
Q100 HEADWATER	**250.42**	**ELEV.**
VELOCITY (Q10)	**7.1**	**FT/S**
VELOCITY (Q100)	**8.1**	**FT/S**
INLET	**246.36**	**ELEV.**
OUTLET	**244.68**	**ELEV.**
STANDARD DRAWING NOS.:		

QUANTITIES:

CLASS "A" CONCRETE	**C.Y.**
STEEL BAR REINFORCING	**LB.**
BACKFILL	**TONS**
FOUNDATION FILL MATERIAL	**C.Y.**

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

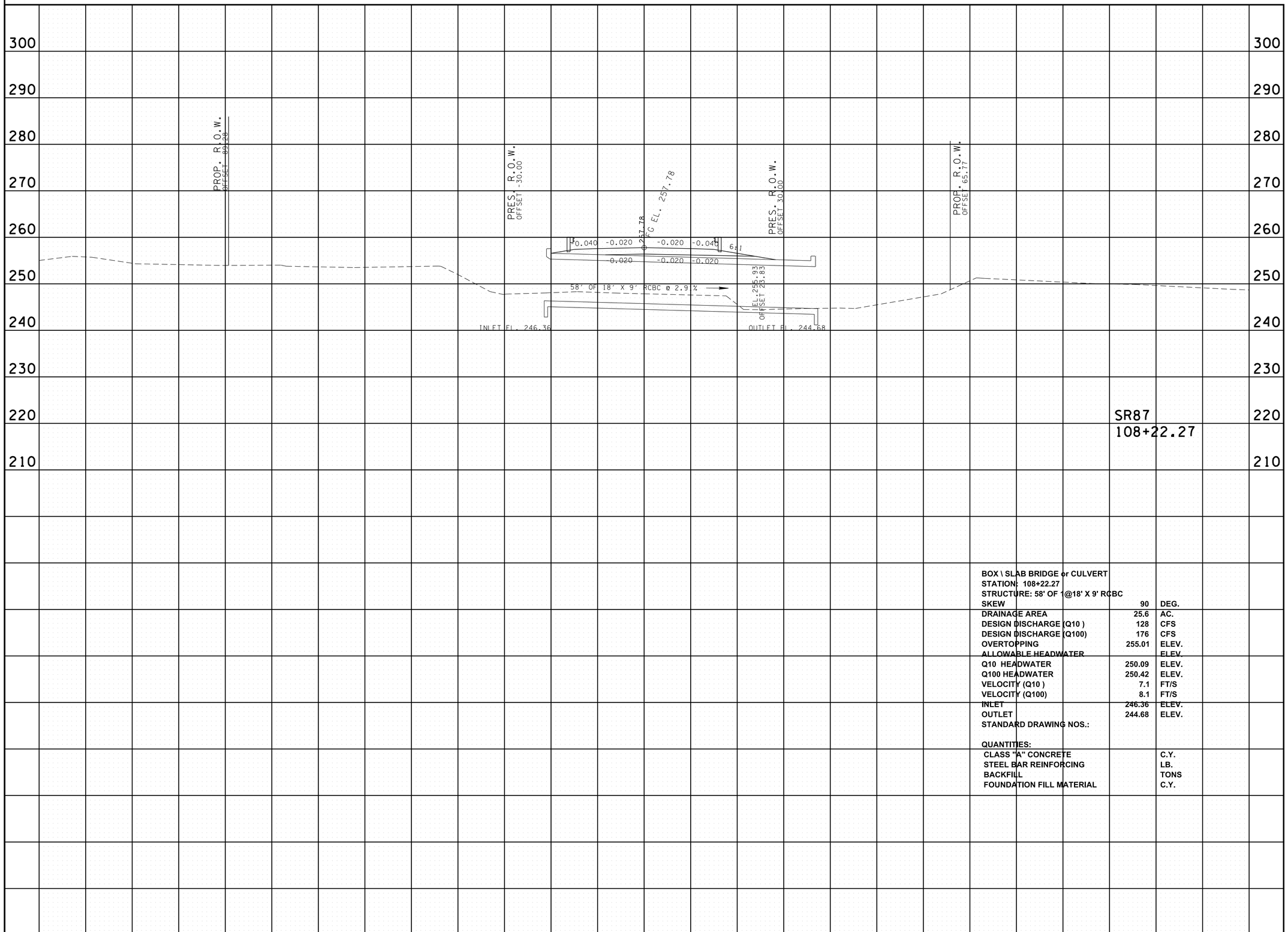
DRAINAGE MAP

STA. 104+50 TO STA. 111+50
SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	7

REV. 01-22-20: REVISED PROPOSED STRUCTURE AT STA. 108+22.27.



BOX \ SLAB BRIDGE or CULVERT		
STATION: 108+22.27		
STRUCTURE: 58' OF 1@18' X 9' RCBC		
SKEW	90	DEG.
DRAINAGE AREA	25.6	AC.
DESIGN DISCHARGE (Q10)	128	CFS
DESIGN DISCHARGE (Q100)	176	CFS
OVERTOPPING	255.01	ELEV.
ALLOWABLE HEADWATER		ELEV.
Q10 HEADWATER	250.09	ELEV.
Q100 HEADWATER	250.42	ELEV.
VELOCITY (Q10)	7.1	FT/S
VELOCITY (Q100)	8.1	FT/S
INLET	246.36	ELEV.
OUTLET	244.68	ELEV.
STANDARD DRAWING NOS.:		
QUANTITIES:		
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
BACKFILL		TONS
FOUNDATION FILL MATERIAL		C.Y.

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

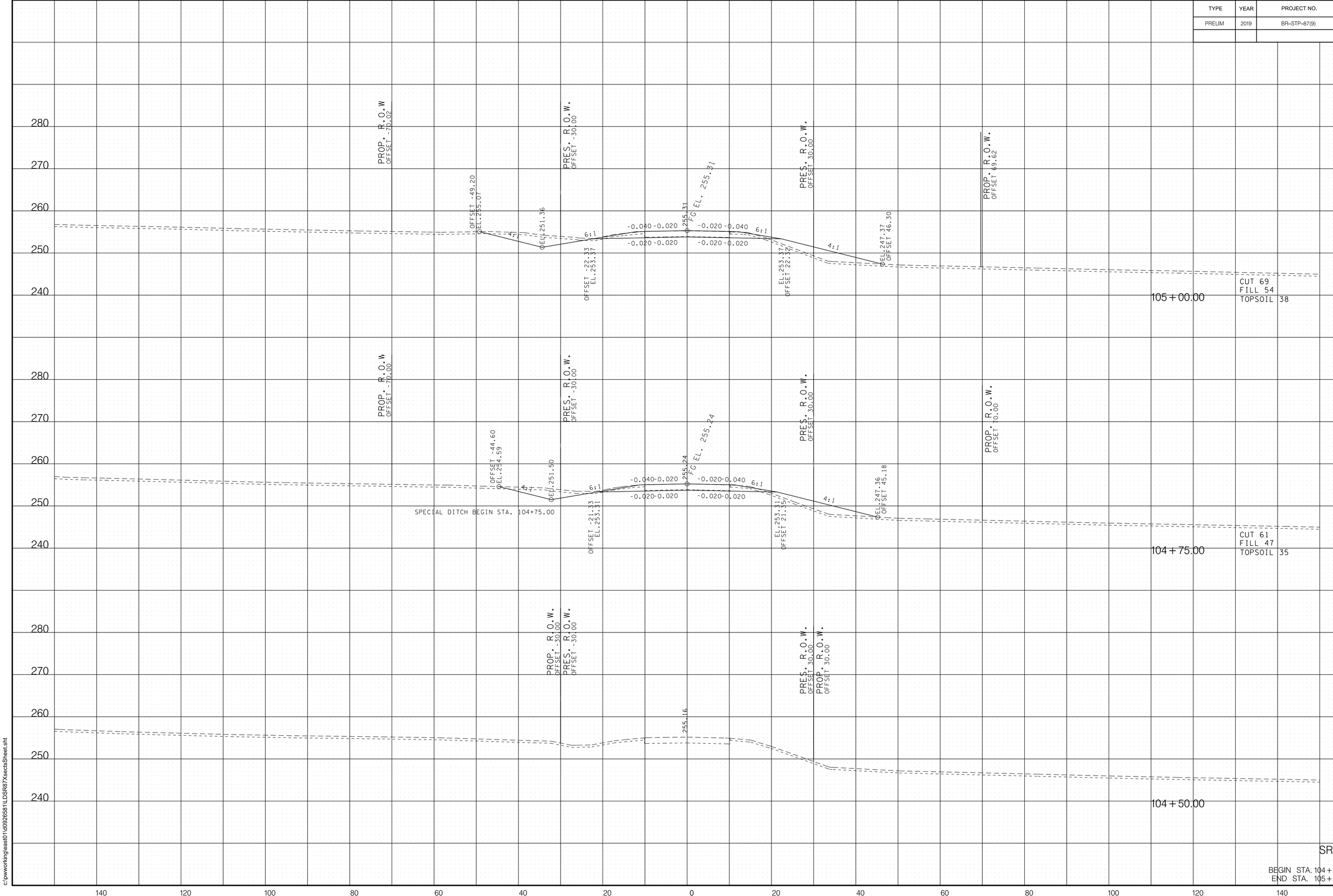
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTION

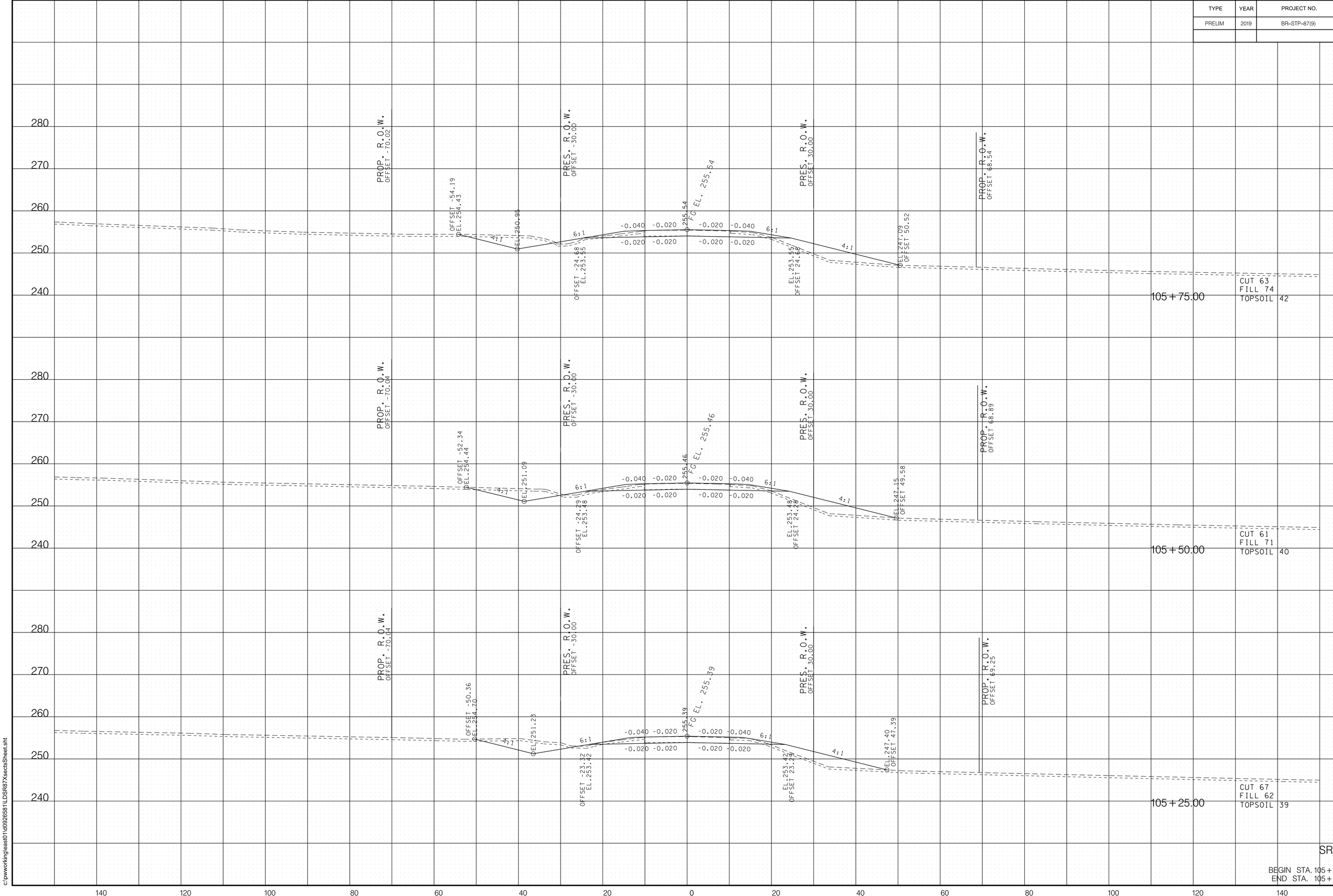
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PRELIM	2019	BR-STP-87(9)	8



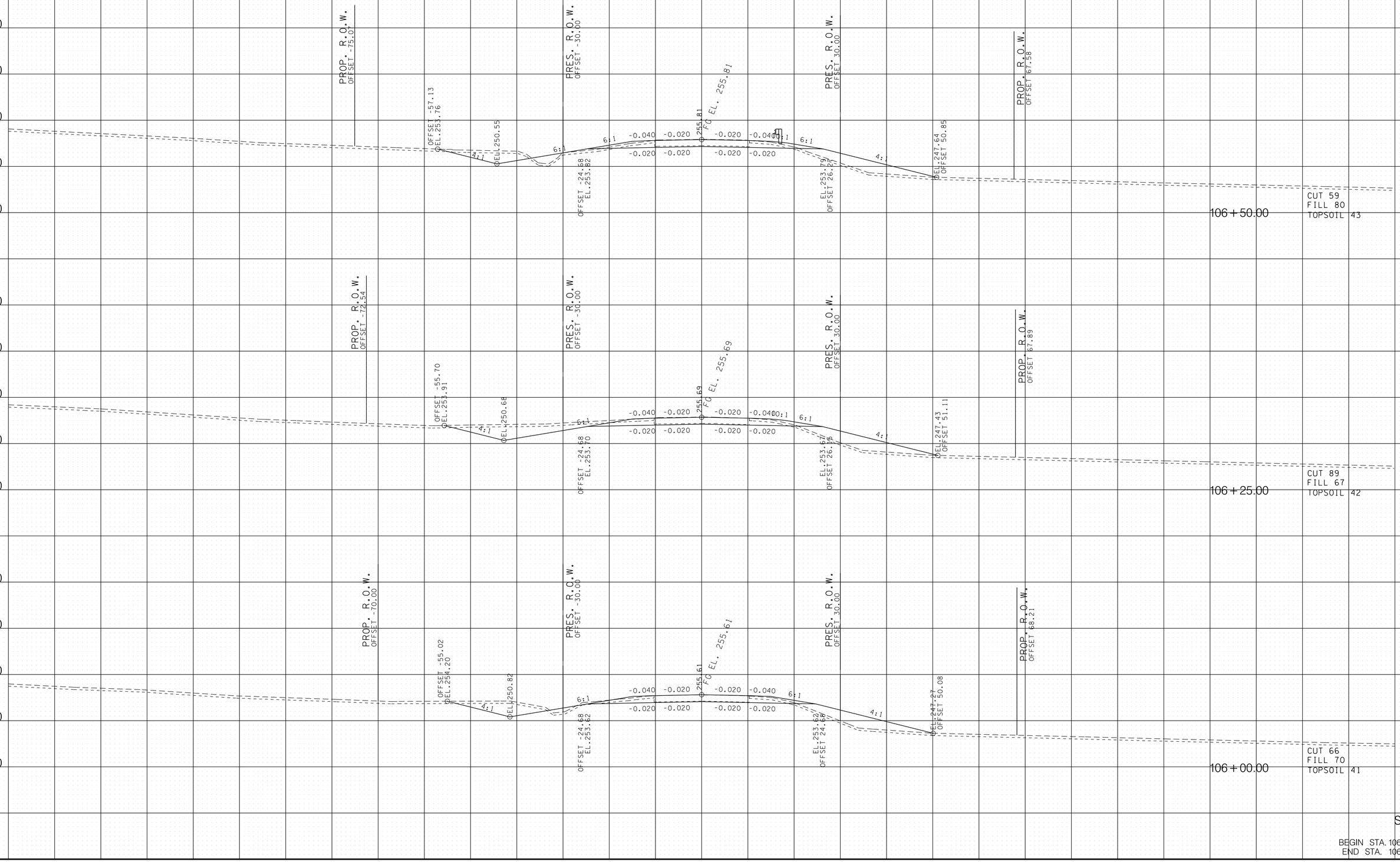
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PRELIM	2019	BR-STP-87(9)	9



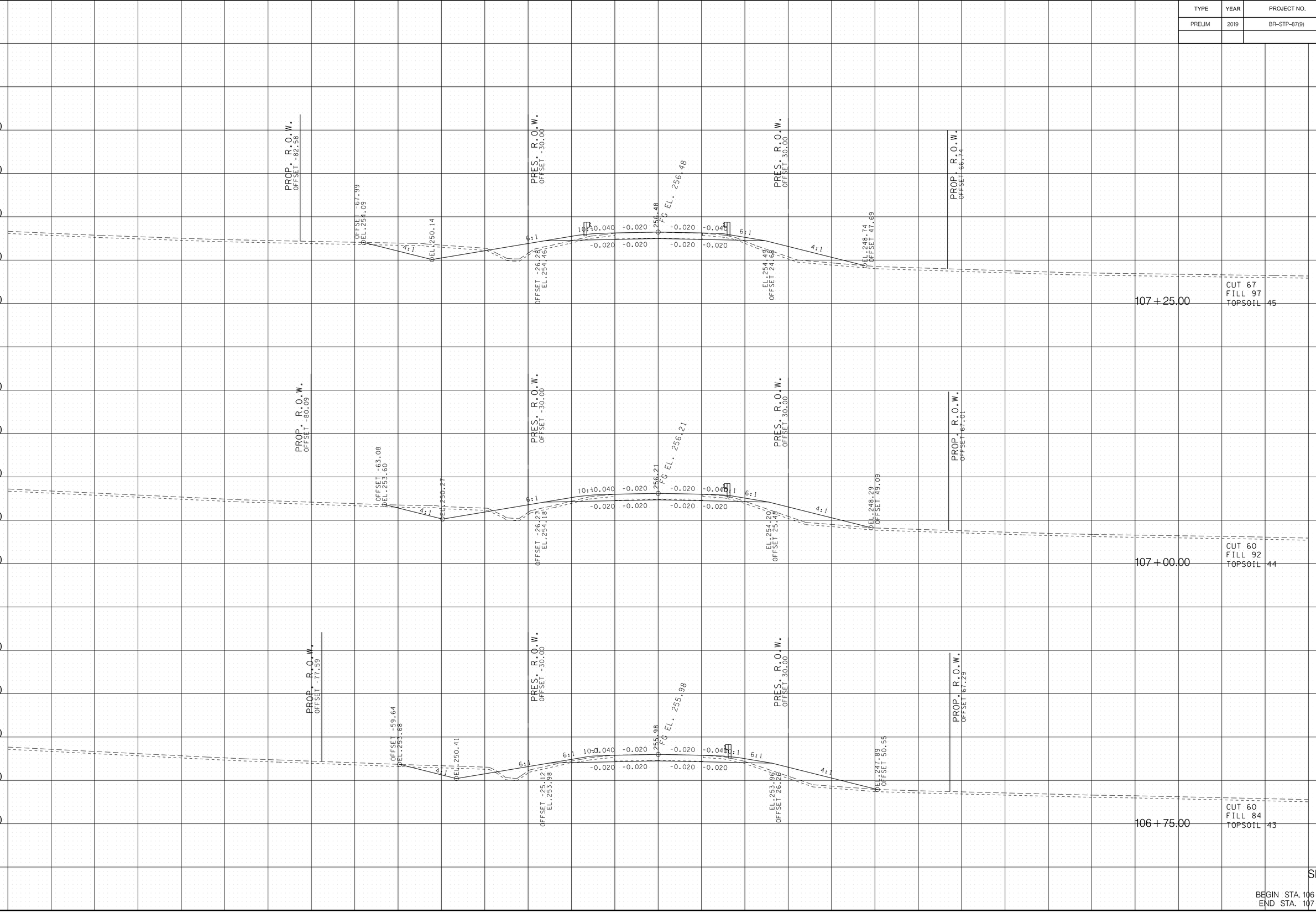
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	10



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	11

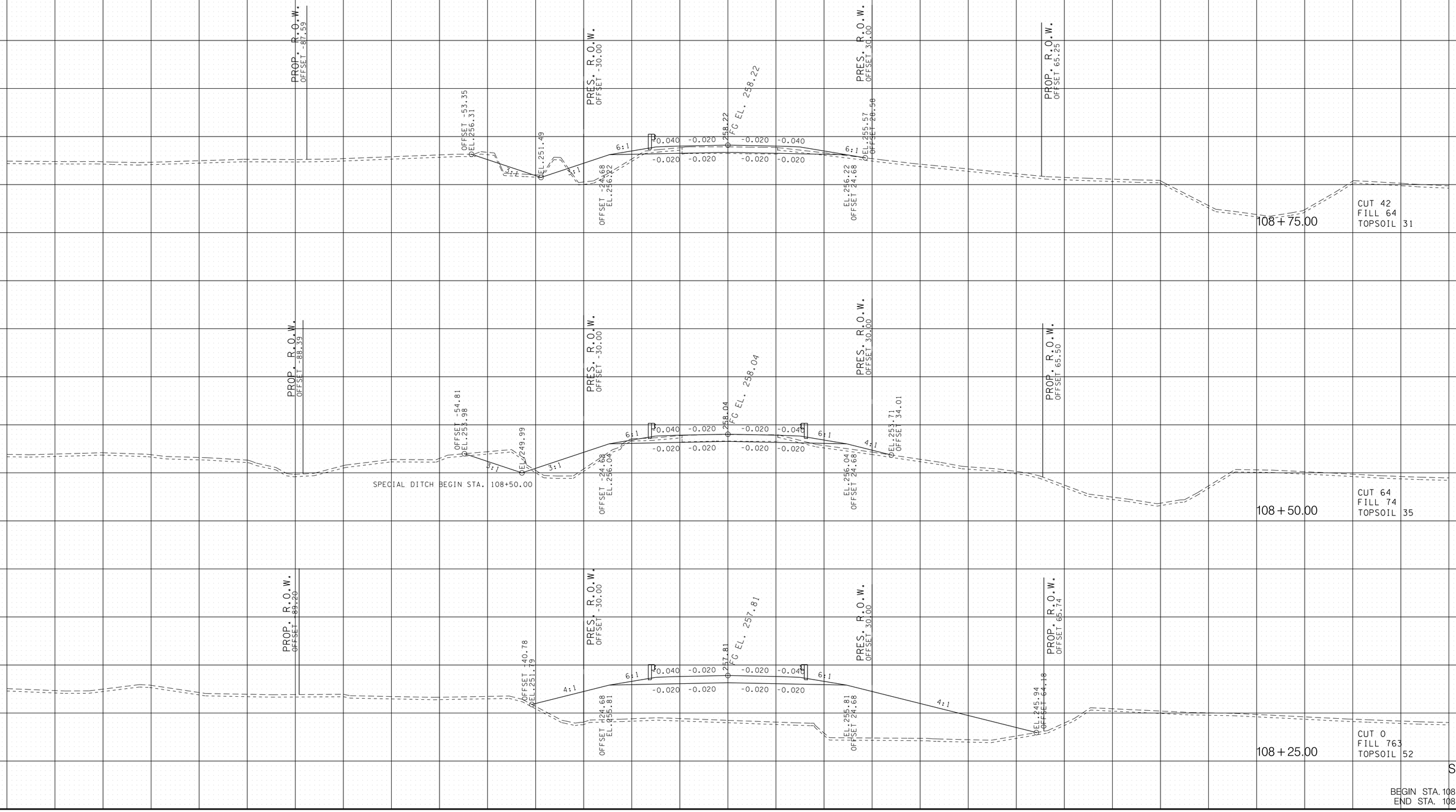


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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	12

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	13

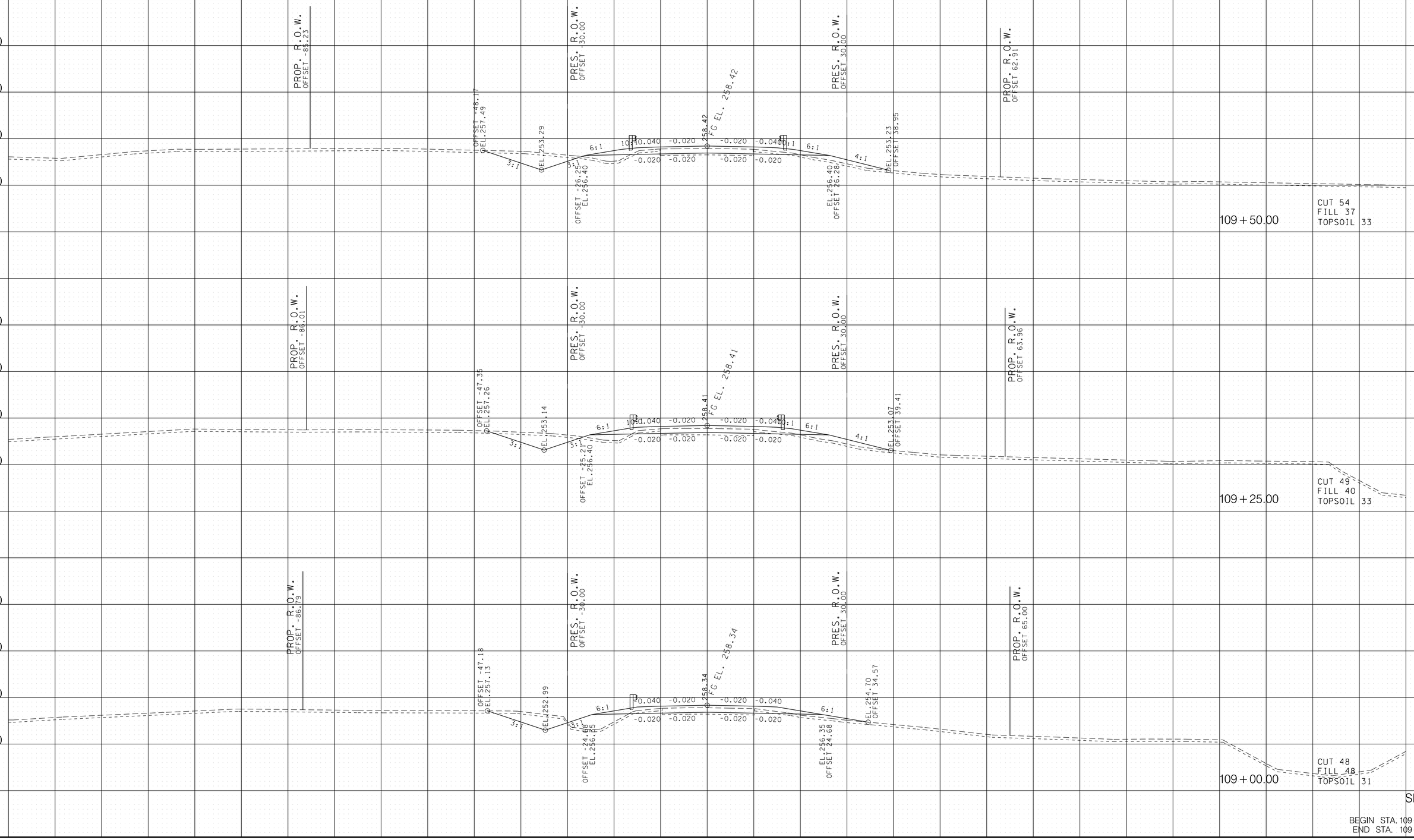


SR 87

BEGIN STA. 108+25.00
END STA. 108+75.00

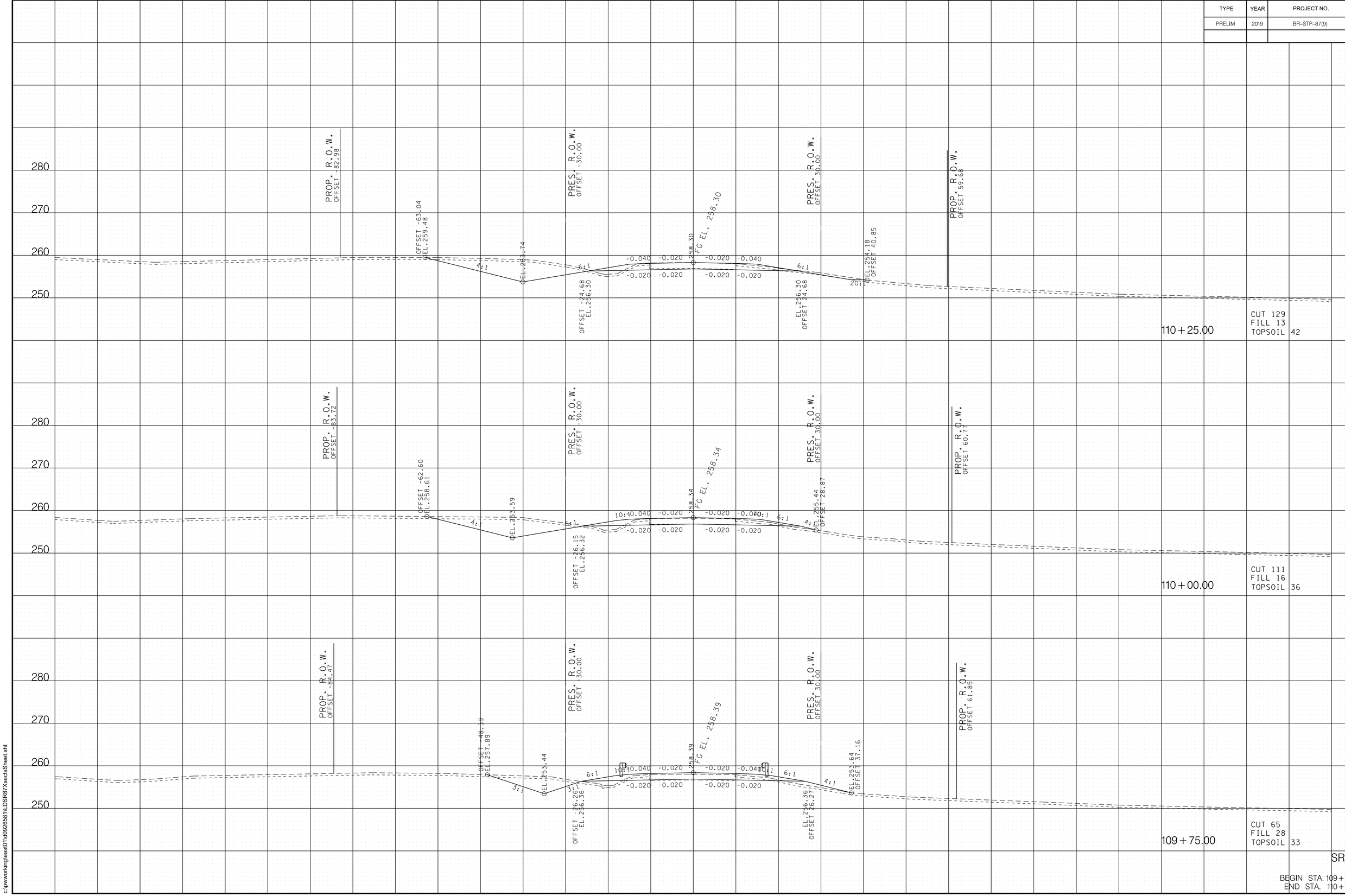
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PRELIM	2019	BR-STP-87(9)	14



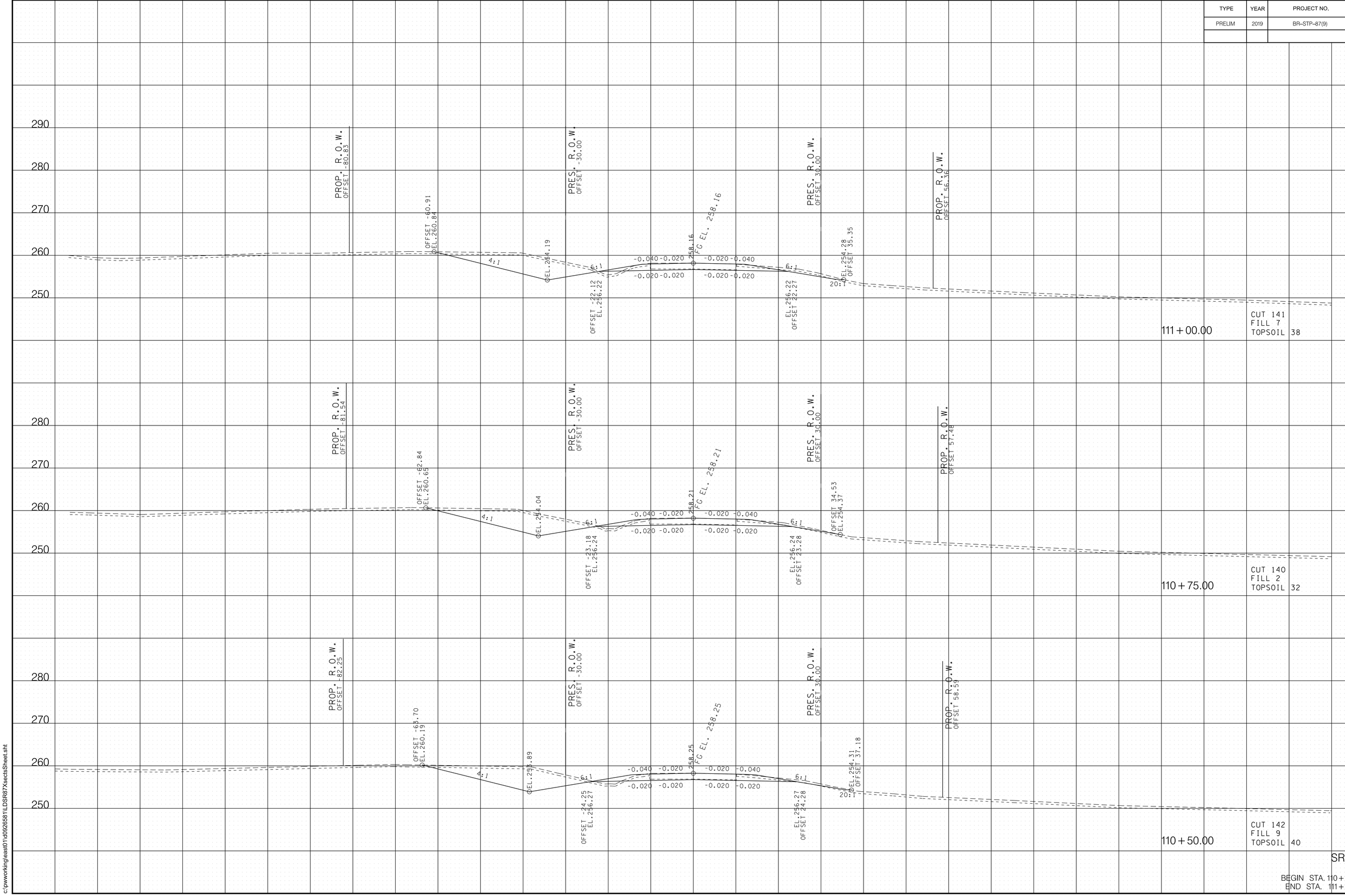
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	15



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	16



SR 87

BEGIN STA. 110+50.00
END STA. 111+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-87(9)	17

290
280
270
260
250

PROP. R.O.W.
OFFSET -30.00

PRES. R.O.W.
OFFSET -30.00

PRES. R.O.W.
OFFSET 30.00

PROP. R.O.W.
OFFSET 30.00

258.00

111+50.00

290
280
270
260
250

PROP. R.O.W.
OFFSET -80.14

PRES. R.O.W.
OFFSET -30.00

PRES. R.O.W.
OFFSET 30.00

PROP. R.O.W.
OFFSET 55.23

OFFSET -56.46
EL.260.46

4:1

EL.254.34

6:1

-0.040-0.020

-0.020-0.040

PG EL. 258.08

-0.020-0.020

-0.020-0.020

6:1

EL.254.34

20:1

EL.254.05
OFFSET 37.92

SPECIAL DITCH END STA. 111+25.00

OFFSET -21.07
EL.256.16

EL.256.16
OFFSET 21.25

111+25.00

CUT 125
FILL 6
TOPSOIL 37

SR 87

BEGIN STA. 111+25.00
END STA. 111+50.00

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

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Index Of Sheets

PRELIMINARY INDEX OF SHEETS

TITLE SHEET 1
TYPICAL SECTIONS 2B
RIGHT-OF-WAY NOTES, UTILITY NOTES and UTILITY OWNERS 3
RIGHT-OF-WAY ACQUISITION TABLE(S) and PROPERTY MAP(S) 3A
PRESENT LAYOUT(S) 4
RIGHT OF WAY DETAILS 4A
PROPOSED LAYOUT(S) 4B
PROPOSED PROFILE(S) 4C
DRAINAGE MAP(S) 5
CULVERT SECTION(S) 6
ROADWAY CROSS SECTIONS 7-13

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES X	NO

TENN.	YEAR	SHEET NO.
	2019	1
FED. AID PROJ. NO.	BR-STP-223(11)	
STATE PROJ. NO.	57039-0231-94	

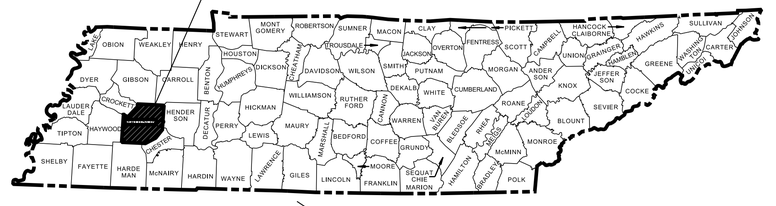
MADISON COUNTY

S.R. 223 (SHADY GROVE RD.) BRIDGE REPLACEMENT
OVER BRANCH AT L.M. 2.28

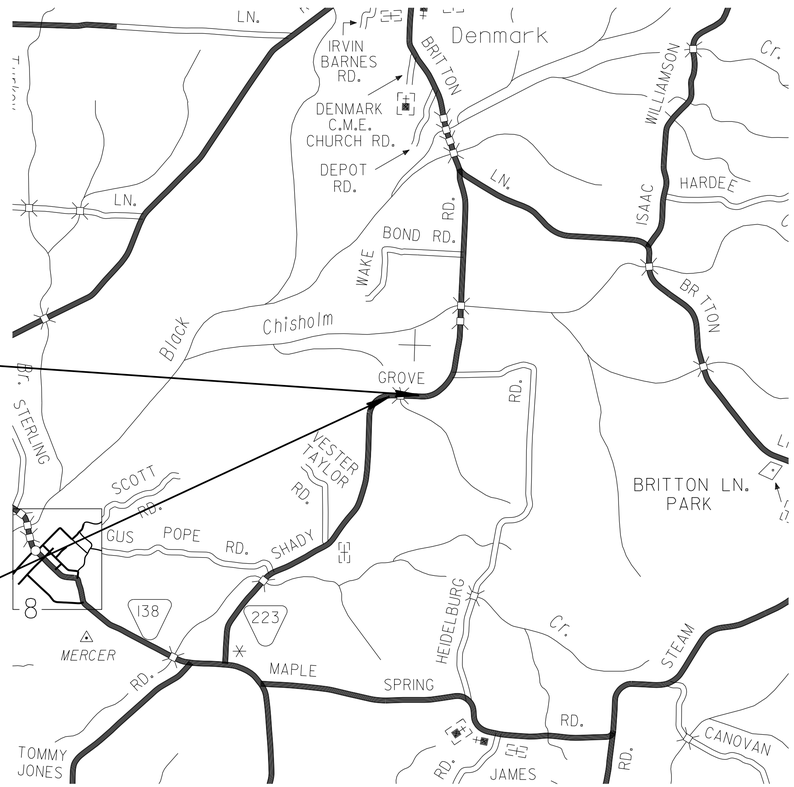
PRELIMINARY

STATE HIGHWAY NO. 223 U.S. ROUTE NO.

PROJECT LOCATION
BRIDGE ID. # 57S81960003



PROJECT LOCATION
BRIDGE ID. #



SCALE: 1"= 1/2 MILE

NO EXCLUSIONS

PRELIMINARY PLANS

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

ROAD TO BE CLOSED DURING CONSTRUCTION

SEALED BY

57039-0231-94
END PROJECT NO. BR-STP-223(11) PRELIMINARY
STA. 37+40.00
N 436670.0772 E 1075519.3623

57039-0231-94
BEGIN PROJECT NO. BR-STP-223(11) PRELIMINARY
STA. 32+60.00
N 436686.1659 E 1075039.6393

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

DATE:

APPROVED: Clay Bright
CLAY BRIGHT, 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 : STEPHANIE KISSELL

DESIGNED BY : HDR ENGINEERING, INC.

DESIGNER : GREG CLUCKER CHECKED BY KEVIN CAGLE

P.E. NO. 57039-0231-94 (NEPA)

PIN NO. 128113.06

R.O.W. LENGTH	0.090 MILES
ROADWAY LENGTH	0.085 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.005 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.090 MILES

▲ Not included in the project length (Non Riding Surface).

S.R. 223

SURVEY 10-09-18	TRAFFIC DATA	
	ADT (2022)	610
	ADT (2042)	1120
	DHV (2042)	146
	D	65 - 35
	T (ADT)	15 %
	T (DHV)	10 %
	V	45 MPH

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

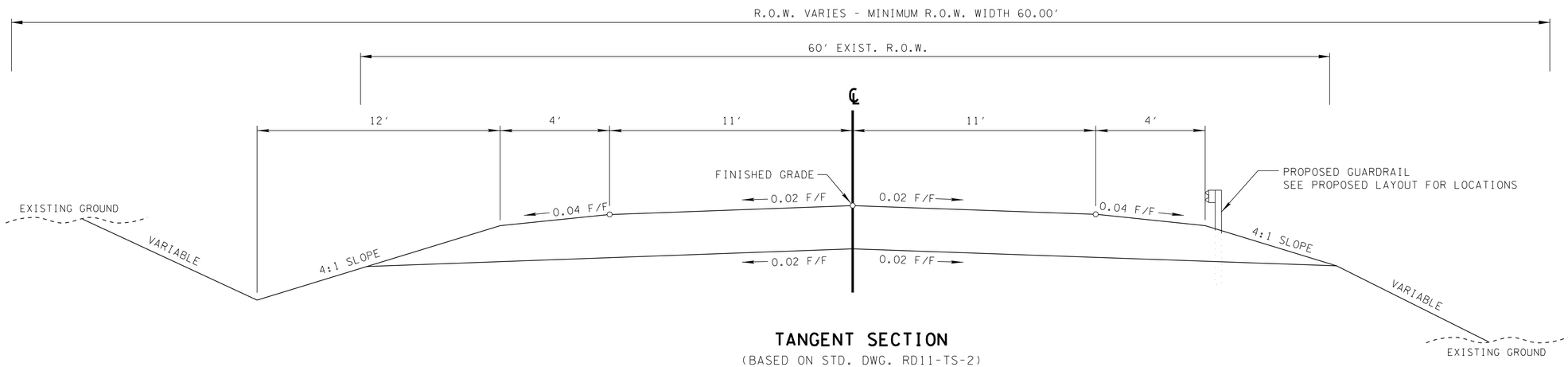
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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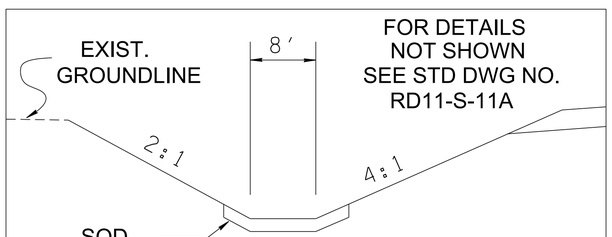
TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	2B



TANGENT SECTION

(BASED ON STD. DWG. RD11-TS-2)

STA. 32+60.00 TO STA. 33+50.00 (PAVEMENT TAPER)
STA. 33+50.00 TO STA. 36+50.00
STA. 36+50.00 TO STA. 37+40.00 (PAVEMENT TAPER)



PROP. 8' FLAT BOTTOM SODDED DITCH

LEFT STA. 33+50.00 TO STA. 33+75.00

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	3

RIGHT-OF-WAY

(1) 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.

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

(3) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(4) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

UTILITY

(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 ITS 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 OWNERS

CABLE:
UTILITY NAME
Address
City, State Zip
CONTACT:
OFFICE PHONE:
CELL PHONE:
Email:

ELECTRIC:
UTILITY NAME
Address
City, State Zip
CONTACT:
OFFICE PHONE:
CELL PHONE:
Email:

GAS:
UTILITY NAME
Address
City, State Zip
CONTACT:
OFFICE PHONE:
CELL PHONE:
Email:

TELEPHONE:
UTILITY NAME
Address
City, State Zip
CONTACT:
OFFICE PHONE:
CELL PHONE:
Email:

WATER:
UTILITY NAME
Address
City, State Zip
CONTACT:
OFFICE PHONE:
CELL PHONE:
Email:

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

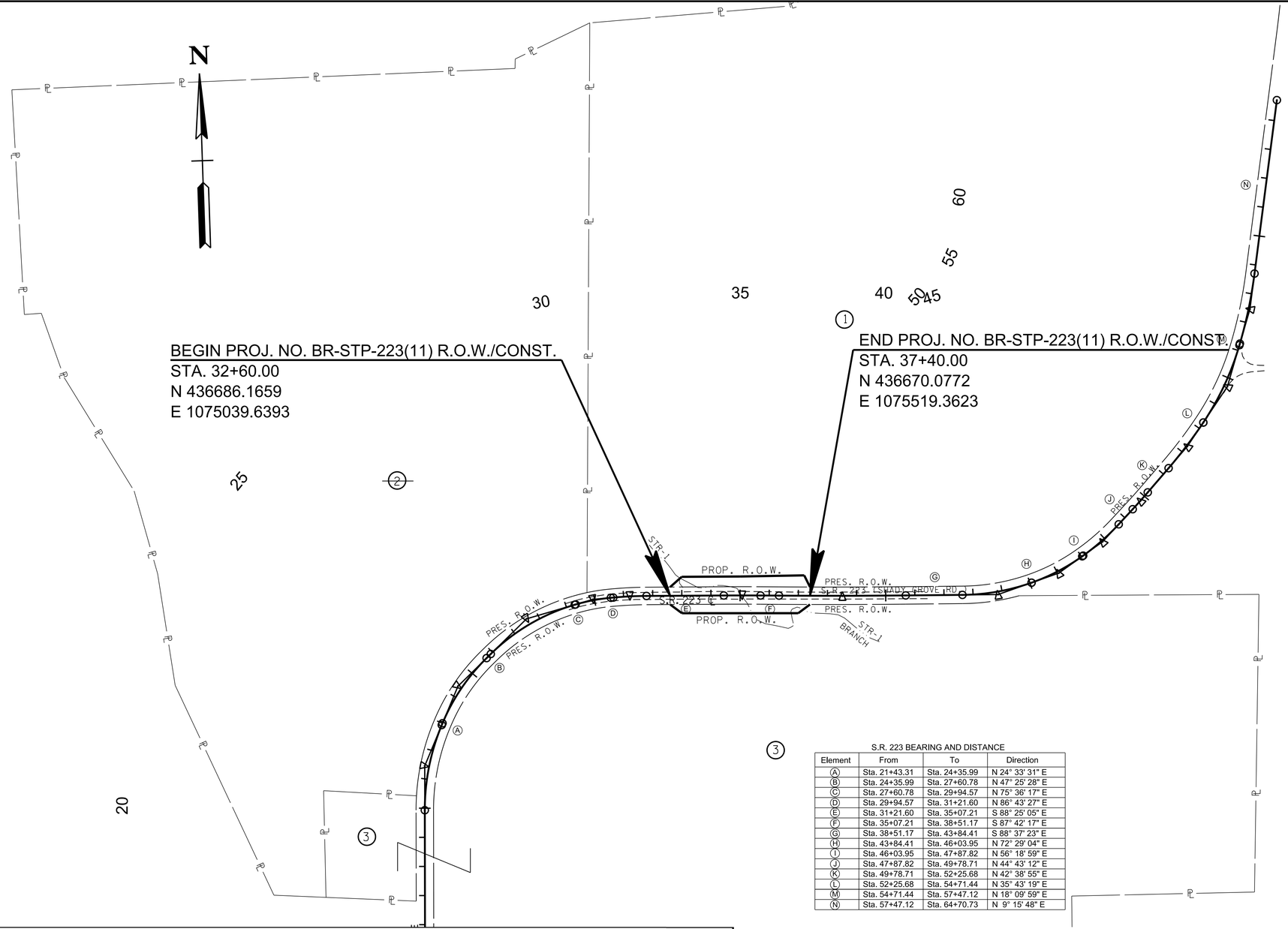
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DEPARTMENT OF TRANSPORTATION

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	3A


N
BEGIN PROJ. NO. BR-STP-223(11) R.O.W./CONST.
STA. 32+60.00
N 436686.1659
E 1075039.6393
END PROJ. NO. BR-STP-223(11) R.O.W./CONST.
STA. 37+40.00
N 436670.0772
E 1075519.3623
20
25
30
35
40
45
50
55
60
STR-1
PROP. R.O.W.
PRES. R.O.W.
S.R. 223 (SHADY GROVE RD.)
S.R. 223 ℄
PRES. R.O.W.
PROP. R.O.W.
PRES. R.O.W.
STR-1 BRANCH
PRES. R.O.W.
PRES. R.O.W.
PRES. R.O.W.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	4

N

BEGIN PROJ. NO. BR-STP-223(11) R.O.W./CONST.
STA. 32+60.00
N 436686.1659
E 1075039.6393

END PROJ. NO. BR-STP-223(11) R.O.W./CONST.
STA. 37+40.00
N 436670.0772
E 1075519.3623

② JAMES WAGES

① DENMARK FARMS, L.L.C.

③ BILLY TAYLOR

30 35 40

PL

1 SPAN, PRECAST CONC. SLAB BRIDGE NO. 57S81960003

PC 36+33.61

PT 40+68.74

END EX. BRIDGE 35+15.36

BEGIN EX. BRIDGE 34+87.58

39' OF PROP. 2 @ 12'X5' RCBB STA. 35+01.60 SKEW 60°

EXIST. 40"x22" OVAL RCP INV-372.59

INV-373.05

18" ELM

TBM "1" 12" OAK

S.R. 223 (SHADY GROVE RD.)

PRES. R.O.W.

TO MERCER ASPH.

N 75° 36' 17" E

N 86° 43' 27" E

S 88° 25' 05" E

S 87° 42' 17" E

CP-S15

CP-S16

R12-1

WI-1R

WI-1L

WWC-1

WWC-2

STR-1

STR-2

TOP OF CUT

BRUSH

WOODS

CULT

EIP

PC 25+92.04
PT 25+71.94

PC 29+33.00
PT 29+29.52

PC 30+64.41
PT 30+56.14

PT 31+78.79

PC 34+44.16

PT 35+70.25

SR 223
PI 27+64.27
N 436,623.6788
E 1,074,544.1930
Δ 28° 10' 49" (RT)
D 8° 21' 01"
R 686.15
L 337.48
T 172.22

SR 223
PI 29+94.76
N 436,682.7158
E 1,074,774.2050
Δ 11° 07' 10" (RT)
D 9° 01' 47"
R 634.52
L 123.14
T 61.77

SR 223
PI 31+21.63
N 436,689.9878
E 1,074,901.2577
Δ 4° 51' 28" (RT)
D 4° 14' 49"
R 1,349.10
L 114.38
T 57.23

SR 223
PI 35+07.21
N 436,679.3410
E 1,075,286.7528
Δ 0° 42' 48" (RT)
D 0° 33' 56"
R 10,129.04
L 126.08
T 63.04
SE N.C.
DESIGN SPEED 45 MPH
TRANS. LENGTH N/A

SR 223
PI 38+51.18
N 436,665.5654
E 1,075,630.4491
Δ 0° 55' 06" (LT)
D 0° 12' 40"
R 27,147.03
L 435.13
T 217.57
SE N.C.
DESIGN SPEED 45 MPH
TRANS. LENGTH N/A

Point	North	East	Station	Offset	Desc.
S15	436672.3224	1074893.0194	31+13.00	16.30'	GPS 57-223-15
S16	436664.7699	1075187.2609	34+08.16	17.31'	GPS 57-223-16

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

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COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 32+60 TO STA. 37+40
SCALE: 1"= 50'

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4

TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	4A

N

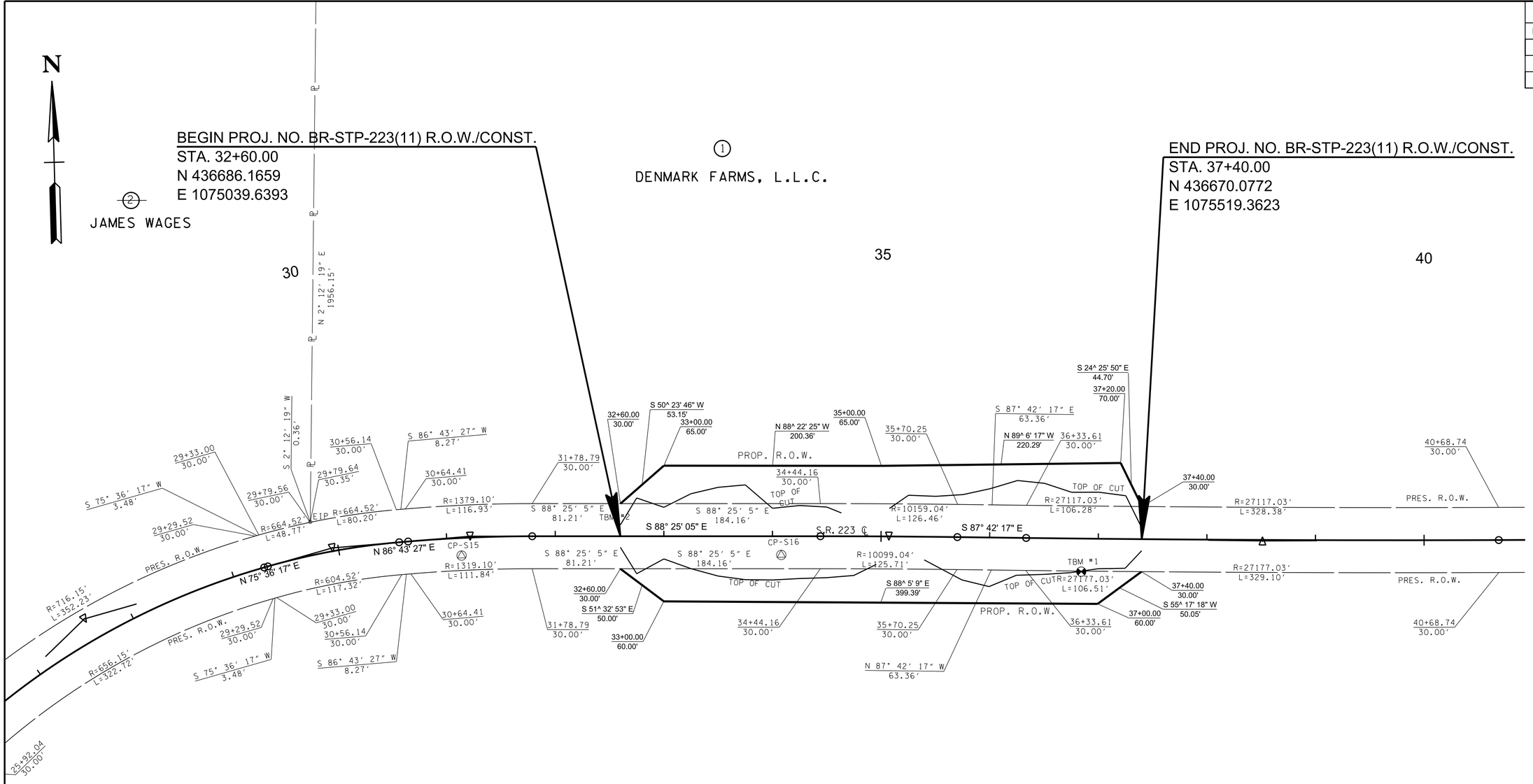
BEGIN PROJ. NO. BR-STP-223(11) R.O.W./CONST.
STA. 32+60.00
N 436686.1659
E 1075039.6393

END PROJ. NO. BR-STP-223(11) R.O.W./CONST.
STA. 37+40.00
N 436670.0772
E 1075519.3623

② JAMES WAGES

① DENMARK FARMS, L.L.C.

③ BILLY TAYLOR



Point	North	East	Station	Offset	Desc.
S15	436672.3224	1074893.0194	31+13.00	16.30'	GPS 57-223-15
S16	436664.7699	1075187.2609	34+08.16	17.31'	GPS 57-223-16

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

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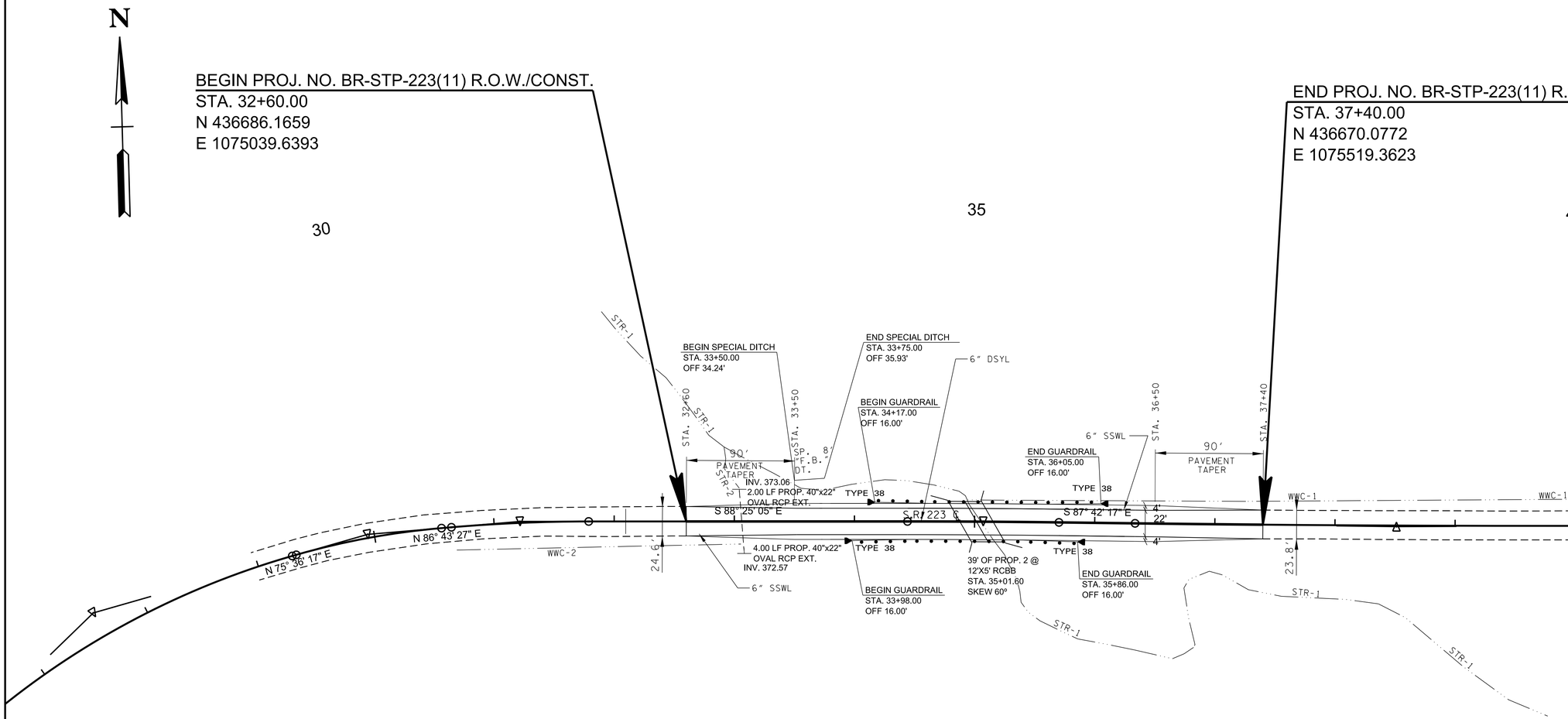
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DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 32+60 TO STA. 37+40
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	4B



CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

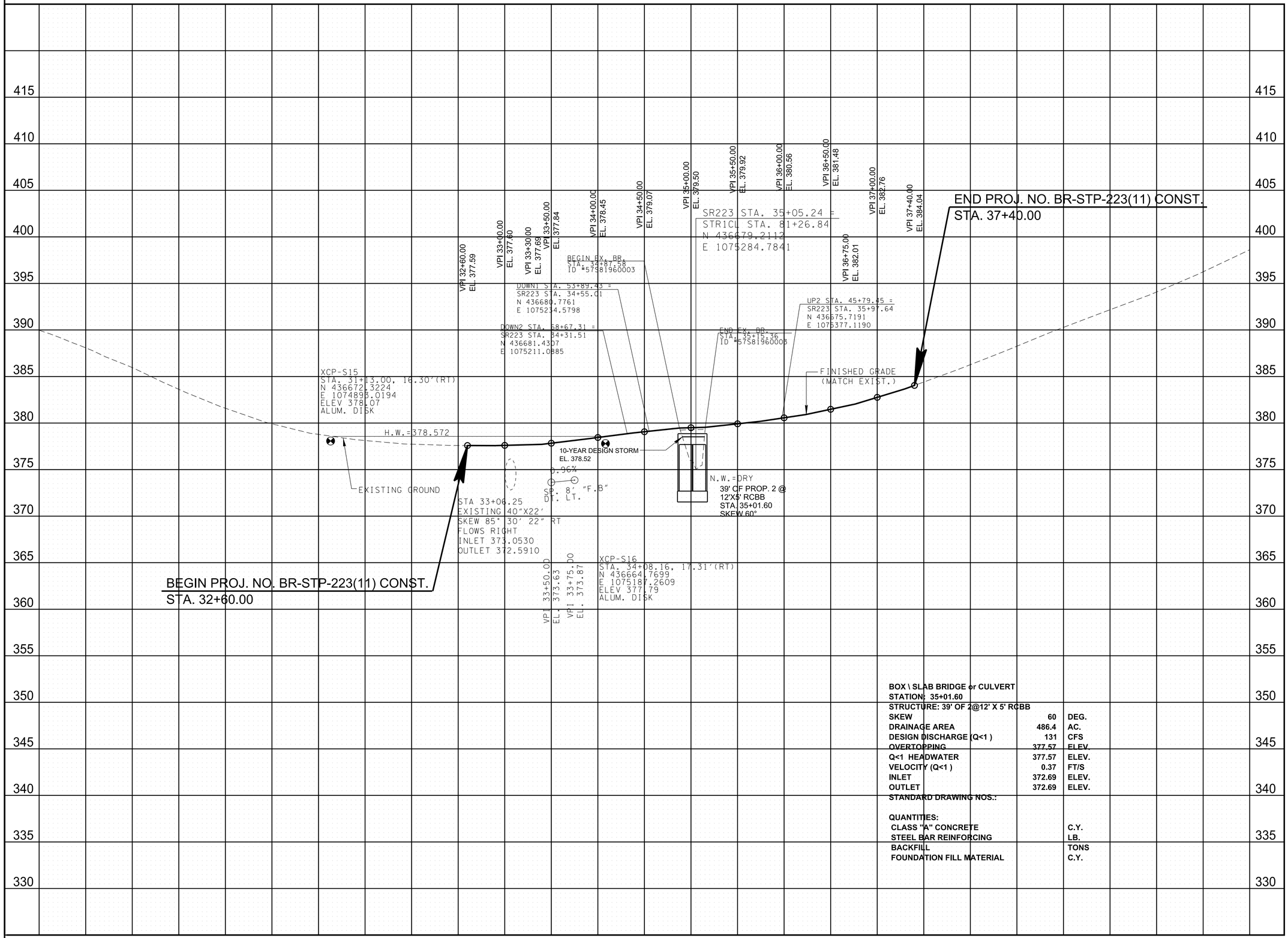
PROPOSED LAYOUT

STA. 32+60 TO STA. 37+40
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	4C

REV. 01-22-20: REVISED 10-YEAR DESIGN STORM ELEVATION IN PROFILE.



BOX \ SLAB BRIDGE or CULVERT		
STATION: 35+01.60		
STRUCTURE: 39' OF 2@12' X 5' RCBB		
SKEW	60	DEG.
DRAINAGE AREA	486.4	AC.
DESIGN DISCHARGE (Q<1)	131	CFS
OVERTOPPING	377.57	ELEV.
Q<1 HEADWATER	377.57	ELEV.
VELOCITY (Q<1)	0.37	FT/S
INLET	372.69	ELEV.
OUTLET	372.69	ELEV.
STANDARD DRAWING NOS.:		
QUANTITIES:		
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
BACKFILL		TONS
FOUNDATION FILL MATERIAL		C.Y.

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

SEALED BY

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00005 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03 .

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

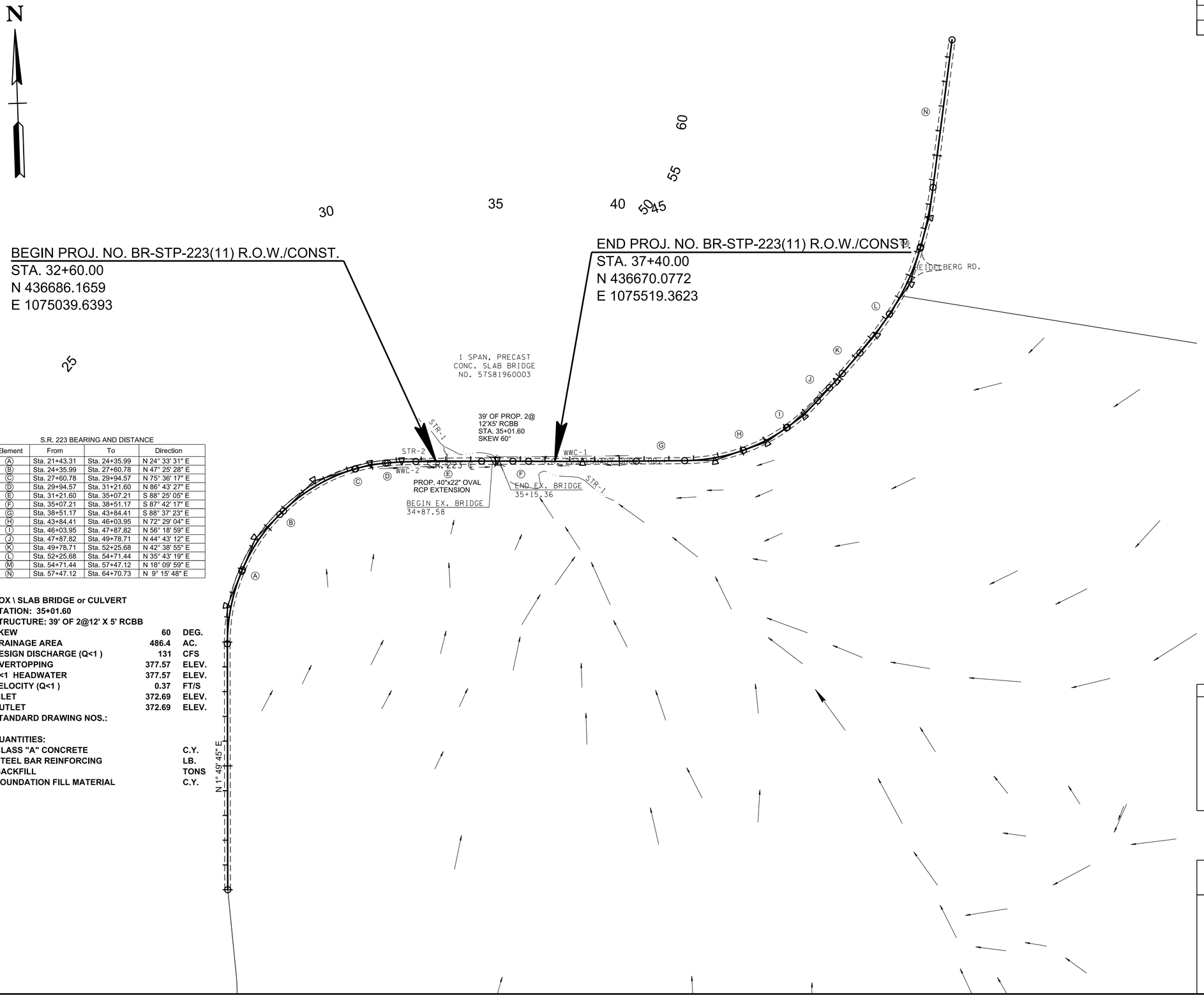
PROPOSED PROFILE

STA. 32+60 TO STA. 37+40

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	5



S.R. 223 BEARING AND DISTANCE

Element	From	To	Direction
Ⓐ	Sta. 21+43.31	Sta. 24+35.99	N 24° 33' 31" E
Ⓑ	Sta. 24+35.99	Sta. 27+60.78	N 47° 25' 28" E
Ⓒ	Sta. 27+60.78	Sta. 29+94.57	N 75° 36' 17" E
Ⓓ	Sta. 29+94.57	Sta. 31+21.60	N 86° 43' 27" E
Ⓔ	Sta. 31+21.60	Sta. 35+07.21	S 88° 25' 05" E
Ⓕ	Sta. 35+07.21	Sta. 38+51.17	S 87° 42' 17" E
Ⓖ	Sta. 38+51.17	Sta. 43+84.41	S 88° 37' 23" E
Ⓗ	Sta. 43+84.41	Sta. 46+03.95	N 72° 29' 04" E
Ⓘ	Sta. 46+03.95	Sta. 47+87.82	N 56° 18' 59" E
Ⓙ	Sta. 47+87.82	Sta. 49+78.71	N 44° 43' 12" E
Ⓚ	Sta. 49+78.71	Sta. 52+25.68	N 42° 38' 55" E
Ⓛ	Sta. 52+25.68	Sta. 54+71.44	N 35° 43' 19" E
Ⓜ	Sta. 54+71.44	Sta. 57+47.12	N 18° 09' 59" E
Ⓝ	Sta. 57+47.12	Sta. 64+70.73	N 9° 15' 48" E

BOX \ SLAB BRIDGE or CULVERT
STATION: 35+01.60
STRUCTURE: 39' OF 2@12' X 5' RCBB

SKEW	**60**	**DEG.**
DRAINAGE AREA	**486.4**	**AC.**
DESIGN DISCHARGE (Q<1)	**131**	**CFS**
OVERTOPPING	**377.57**	**ELEV.**
Q<1 HEADWATER	**377.57**	**ELEV.**
VELOCITY (Q<1)	**0.37**	**FT/S**
INLET	**372.69**	**ELEV.**
OUTLET	**372.69**	**ELEV.**
STANDARD DRAWING NOS.:		

QUANTITIES:

CLASS "A" CONCRETE	**C.Y.**
STEEL BAR REINFORCING	**LB.**
BACKFILL	**TONS**
FOUNDATION FILL MATERIAL	**C.Y.**

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

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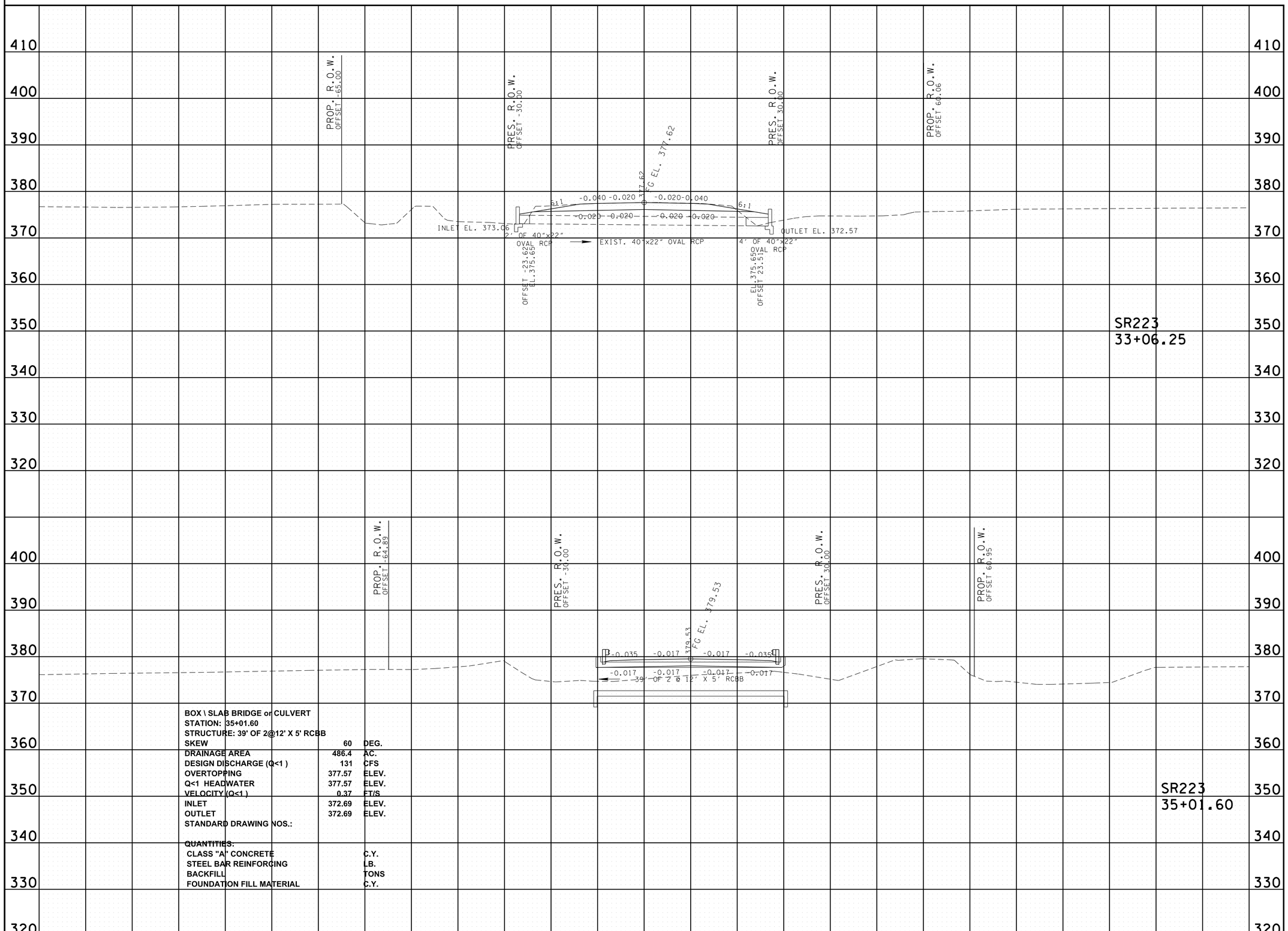
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DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 32+60 TO STA. 37+40
SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	6



BOX \ SLAB BRIDGE or CULVERT		
STATION: 35+01.60		
STRUCTURE: 39' OF 2@12' X 5' RCBB		
SKEW	60	DEG.
DRAINAGE AREA	486.4	AC.
DESIGN DISCHARGE (Q<1)	131	CFS
OVERTOPPING	377.57	ELEV.
Q<1 HEADWATER	377.57	ELEV.
VELOCITY (Q<1)	0.37	FT/S
INLET	372.69	ELEV.
OUTLET	372.69	ELEV.
STANDARD DRAWING NOS.:		
QUANTITIES.		
CLASS "A" CONCRETE		C.Y.
STEEL BAR REINFORCING		LB.
BACKFILL		TONS
FOUNDATION FILL MATERIAL		C.Y.

CAUTION ! PRELIMINARY PLANS SUBJECT TO CHANGE

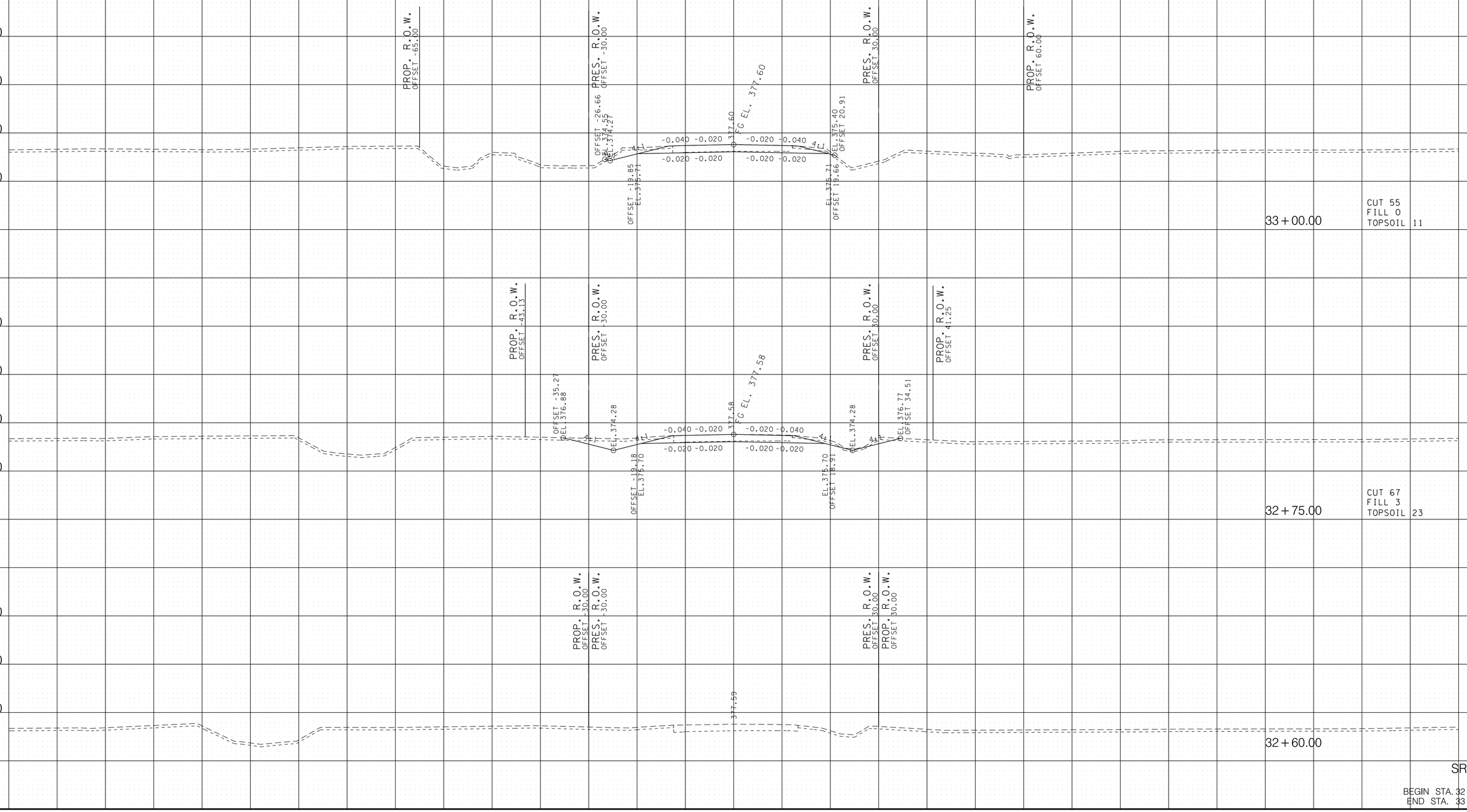
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CULVERT SECTION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	7

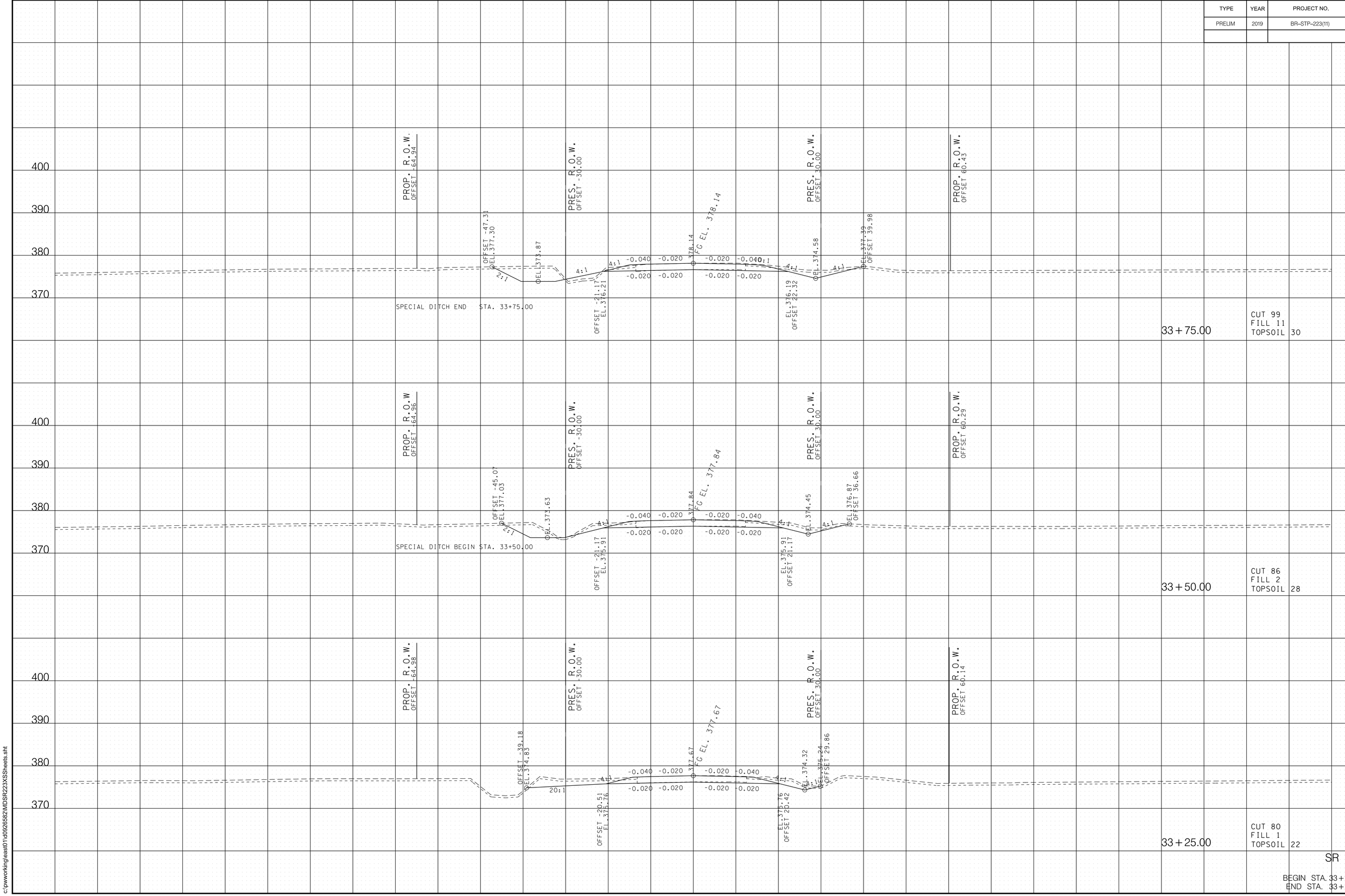


SR 223

BEGIN STA. 32+60.00
END STA. 33+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	8



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	9

SR 223

BEGIN STA. 34+00.00
END STA. 34+50.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	10

PROP. R.O.W. OFFSET -65.47
PRES. R.O.W. OFFSET -30.00
PRES. R.O.W. OFFSET 30.00
PROP. R.O.W. OFFSET 60.98
OFFSET -38.09 EL. 378.05
4:1
OFFSET -24.29 EL. 377.66
4:1
-0.040 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020
379.65 FG EL. 379.65
4:1
EL. 375.03 OFFSET 34.82
35+25.00
CUT 58
FILL 64
TOPSOIL 24
PROPOSED BRIDGE END STA. 35+15.46

PROP. R.O.W. OFFSET -65.00
PRES. R.O.W. OFFSET -30.00
PRES. R.O.W. OFFSET 30.00
PROP. R.O.W. OFFSET 61.00
379.52 FG EL. 379.52
-0.040 -0.020 -0.020 -0.020
39'-0" 2-6'-12" X 5' RCBB
35+00.00
PROPOSED BRIDGE BEGIN STA. 34+87.75

PROP. R.O.W. OFFSET -64.91
PRES. R.O.W. OFFSET -30.00
PRES. R.O.W. OFFSET 30.00
PROP. R.O.W. OFFSET 60.97
OFFSET -31.58 EL. 375.52
4:1
OFFSET -24.29 EL. 377.35
379.33 FG EL. 379.33
-0.040 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020 -0.020
EL. 377.41 OFFSET 21.17
4:1
EL. 375.95
4:1
EL. 378.22 OFFSET 36.08
34+75.00
CUT 60
FILL 17
TOPSOIL 21

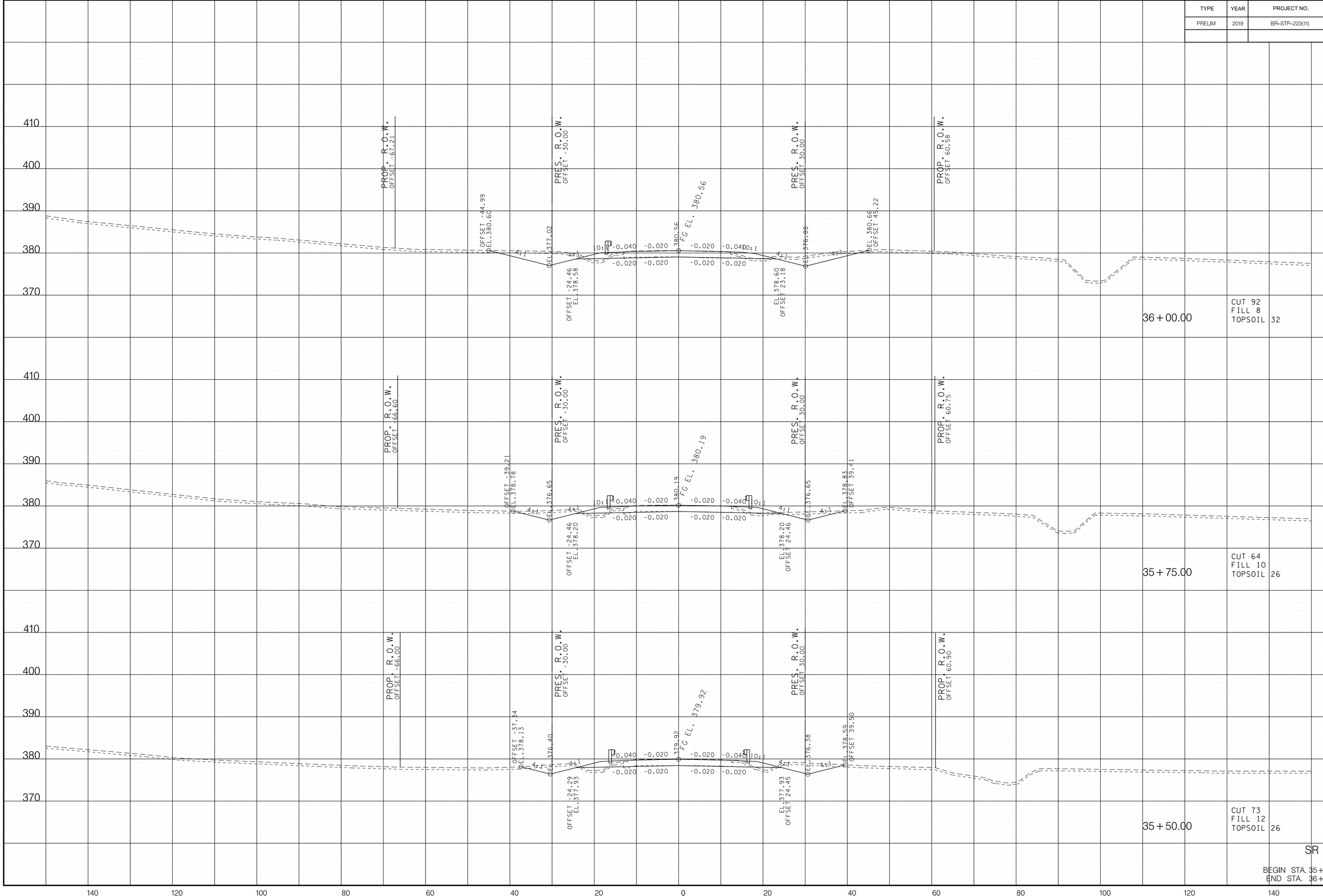
SR 223
BEGIN STA. 34+75.00
END STA. 35+25.00

410 400 390 380 370

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

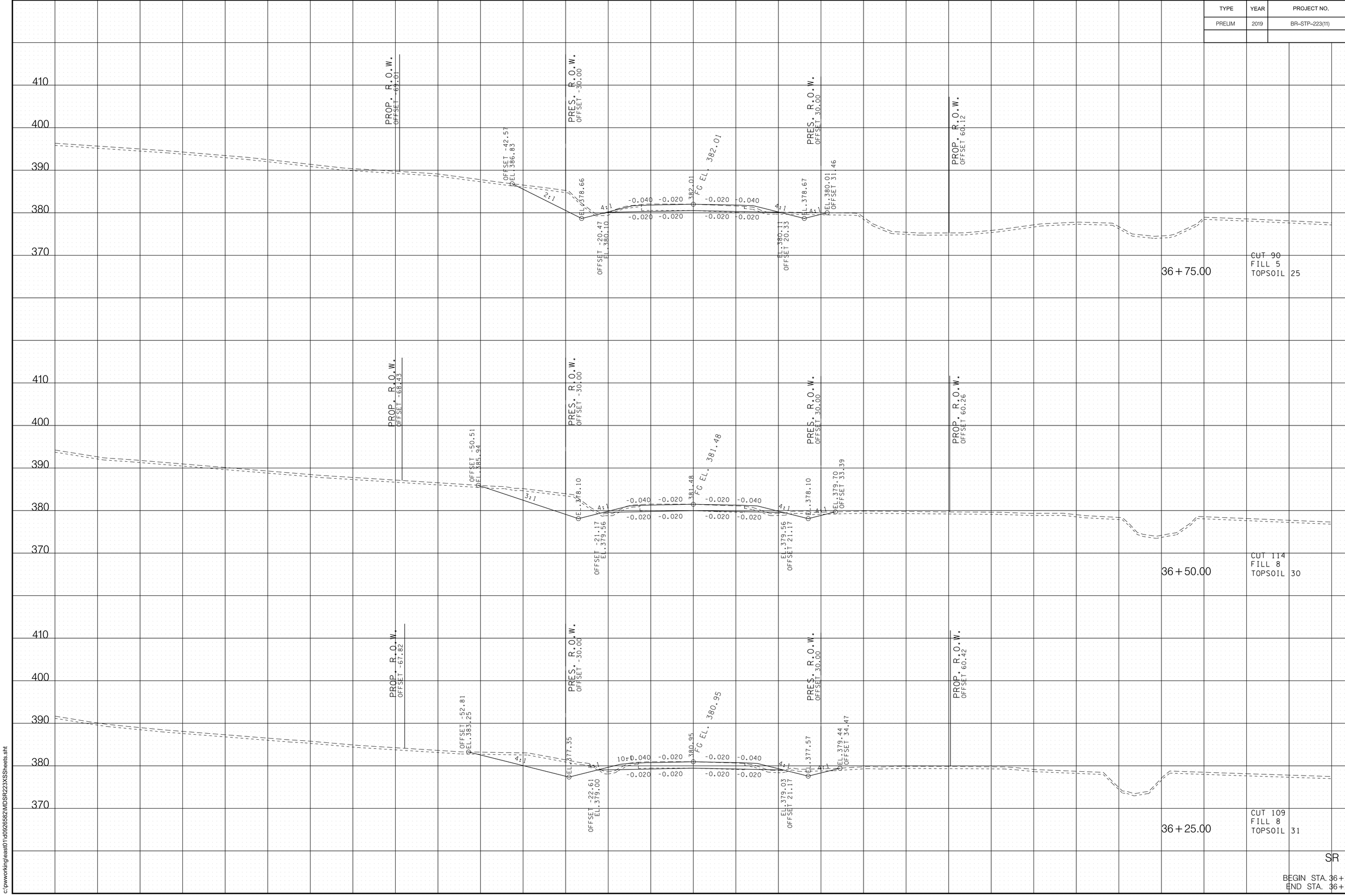
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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	11



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	12



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TYPE	YEAR	PROJECT NO.	SHEET NO.
PRELIM	2019	BR-STP-223(11)	13

410
400
390
380
370

PROP. R.O.W.
OFFSET -30.00
PRES. R.O.W.
OFFSET -30.00
384.64
PRES. R.O.W.
OFFSET 30.00
PROP. R.O.W.
OFFSET 30.00
37+40.00

PROP. R.O.W.
OFFSET -60.01
PRES. R.O.W.
OFFSET -30.00
OFFSET -39.86
EL. 387.83
2:1
EL. 380.23
4:1
-0.040 -0.020
383.52
PG EL. 383.52
-0.020 -0.040
-0.020 -0.020
-0.020 -0.020
OFFSET -18.98
EL. 381.64
EL. 381.65
OFFSET 18.70
PRES. R.O.W.
OFFSET 30.00
EL. 380.25
EL. 380.90
OFFSET 24.94
PROP. R.O.W.
OFFSET 41.24
37+25.00
CUT 66
FILL 6
TOPSOIL 22

PROP. R.O.W.
OFFSET -69.57
PRES. R.O.W.
OFFSET -30.00
OFFSET -42.90
EL. 388.16
2:1
EL. 379.44
4:1
-0.040 -0.020
382.76
PG EL. 382.76
-0.020 -0.040
-0.020 -0.020
0.020 0.020
OFFSET -19.73
EL. 380.87
EL. 380.87
OFFSET 19.50
PRES. R.O.W.
OFFSET 30.00
EL. 379.45
EL. 380.06
OFFSET 27.62
PROP. R.O.W.
OFFSET 60.00
37+00.00
CUT 78
FILL 6
TOPSOIL 23

SR 223
BEGIN STA. 37+00.00
END STA. 37+40.00

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

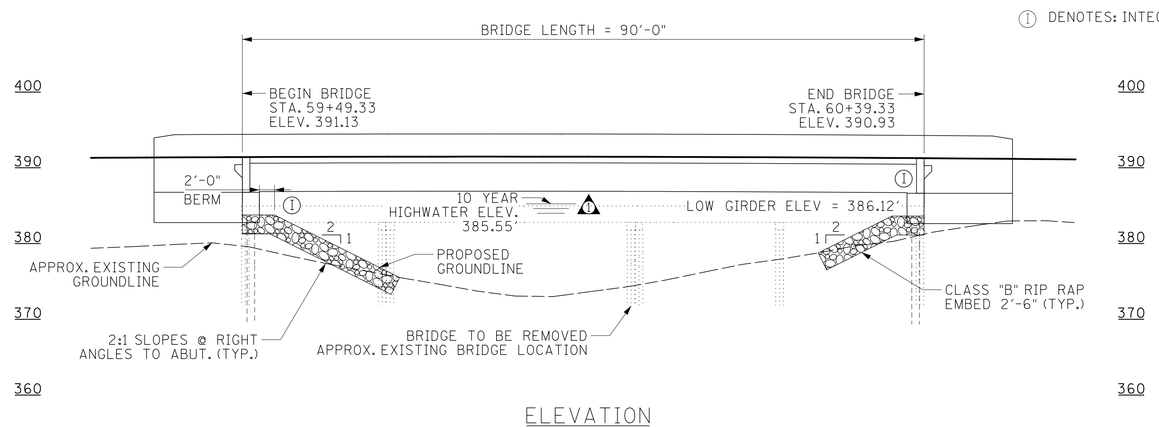
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CONST. NO. 09035-0220-94

PROJECT NO.	YEAR	SHEET NO.
09035-0220-94	2019	

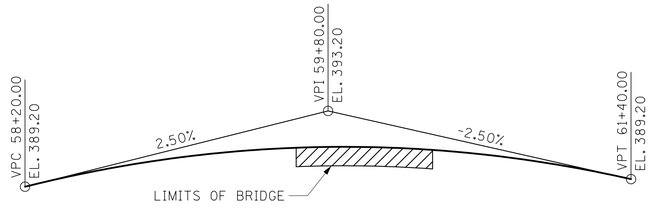
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	01/16/20	CDB	REVISED HYDRAULIC INFORMATION



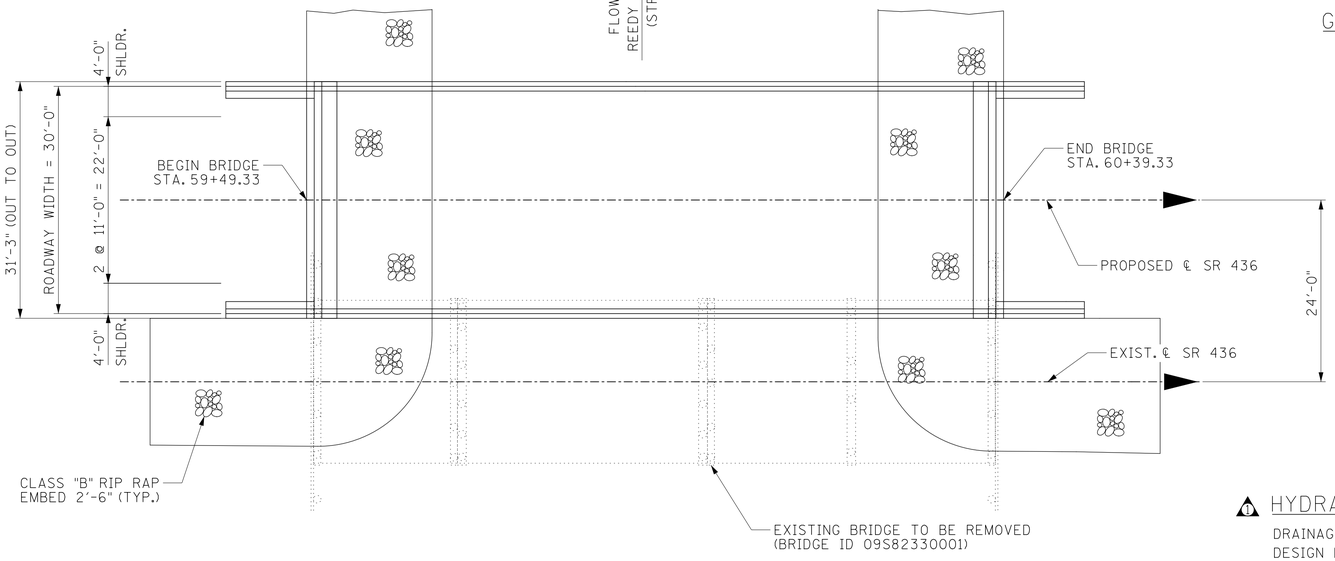
ELEVATION

NOT TO SCALE



GRADE SKETCH

VC = 320'



PLAN

NOT TO SCALE

SCOPE OF WORK

1. MAINTAIN ONE LANE OF TRAFFIC AT ALL TIME USING TEMPORARY TRAFFIC SIGNALS.
2. REMOVE BENTS, SUPERSTRUCTURE, ABUTMENTS AND PLACE NEW SUPERSTRUCTURE AND ABUTMENTS.
3. APPLY TEXTURE COATING TO PARAPET AND CANTILEVER.

GENERAL NOTES

1. SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. (JANUARY 1, 2015)
2. LOADING: HL-93 LIVE LOADING; SEISMIC DESIGN CATEGORY "C" WITH As=0.352, Sds=0.755, Sd1=0.327, (1,000 YEAR RETURN PERIOD). DEAD LOAD INCLUDE 35 LBS/SQ. FT. FOR FUTURE WEARING SURFACE.
3. DESIGN SPECIFICATIONS: AASHTO LRFD 8TH EDITION, 2017, AND THE 2011 AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, EDITION 2 (WITH INTERIMS).
4. CONCRETE: CLASS "A" F'C= 3000 PSI, BRIDGE DECK CLASS "D" F'C= 4000 PSI
5. REINFORCING STEEL: TO BE ASTM A615 GRADE 60. (EPOXY COAT ALL SLAB STEEL)
6. SUPERSTRUCTURE: TO CONSIST OF AASHTO TYPE III BEAMS AND COMPOSITE CONCRETE DECK SLAB.
7. USE STD-I-ISS BRIDGE RAILING.
8. TEXTURE COATING: TO BE MOUNTAIN GREY (36440) EXCEPT TRAFFIC FACE AND TOP OF PARAPET TO BE OFF WHITE (37886)
9. MACHINE RIP-RAP SHALL BE CLASS "B", TO MEET THE QUALITY REQUIREMENTS OF SECTION 709 AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEMS.
10. BRIDGE EXCAVATION IS BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND LINE AT BENTS.
11. BRIDGE DECK FINISH TO BE IN ACCORDANCE WITH NOTE "C" IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.

NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA SHALL BE SEPARATED FROM FLOWING WATER. 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 TEMPORARY DIVERSION CHANNELS, EC-STR-3I AND TEMPORARY DIVERSION CULVERTS.

⚠1 HYDRAULIC DATA

DRAINAGE AREA .....26.1 SQ. MI.
DESIGN DISCHARGE (10-YEAR).....4,480 CFS
AREA BELOW 10-YEAR ELEVATION.....770.73 SQ FT
10-YEAR VELOCITY.....5.70 FPS
10 YEAR BRIDGE BACKWATER.....385.55
100-YEAR DISCHARGE.....7,050 CFS
ROADWAY OVERTOPPING ELEVATION.....385.13

2042 ADT = 450
DESIGN SPEED = 45 MPH
30'-0" ROADWAY WIDTH WITH STD 1-1SS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LAYOUT OF BRIDGE

SR 436 OVER REEDY CREEK
BRIDGE NO. XX-XXX-XXXX

CARROLL COUNTY
2019

DESIGNED BY	BEG	DATE	05/19
DRAWN BY	BEG	DATE	05/19
SUPERVISED BY	CDB	DATE	05/19
CHECKED BY	CDB	DATE	05/19

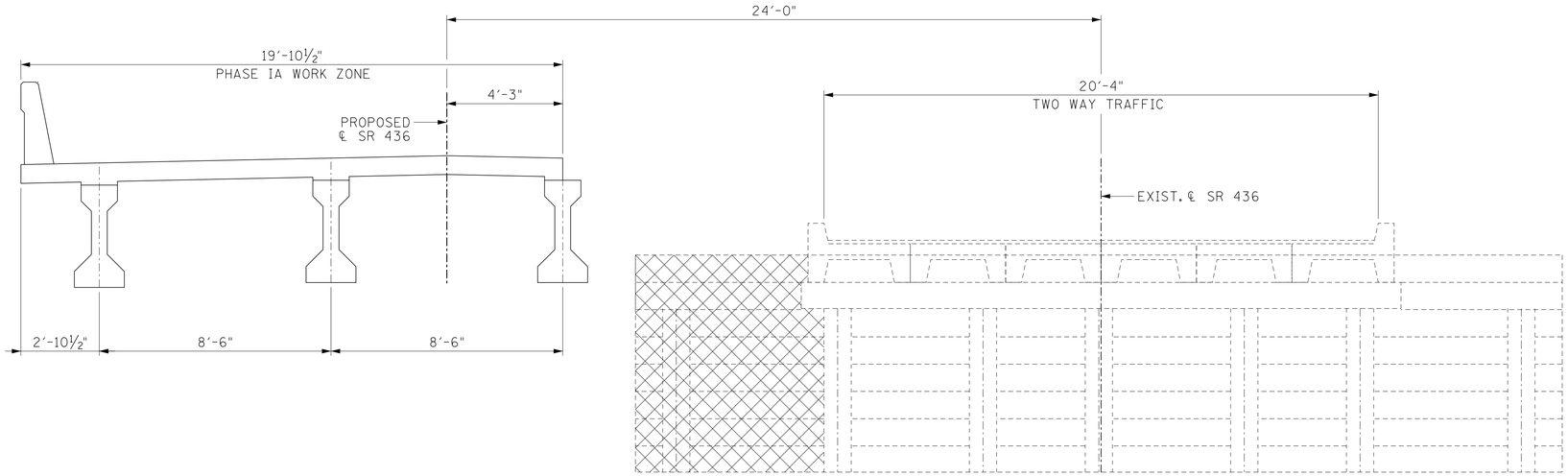
HDR

CONST. NO. 09035-0220-94

PROJECT NO.	YEAR	SHEET NO.
09035-0220-94	2019	

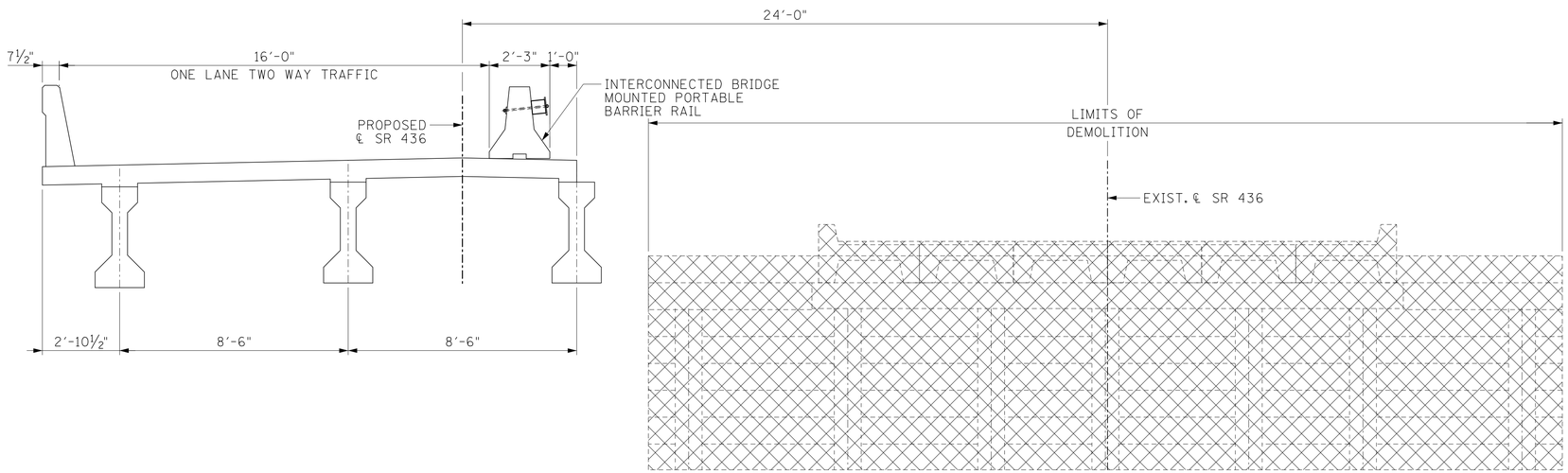
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



PHASE IA CONSTRUCTION

(LOOKING FORWARD ON SURVEY)



PHASE IB DEMOLITION

(LOOKING FORWARD ON SURVEY)

CROSSHATCHING DENOTES PORTION OF EXISTING STRUCTURE TO BE REMOVED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASED CONSTRUCTION DETAILS

SR 436 OVER REEDY CREEK
BRIDGE NO. XX-XXX-XXXX

CARROLL COUNTY
2019

UNOFFICIAL SET
NOT FOR BIDDING

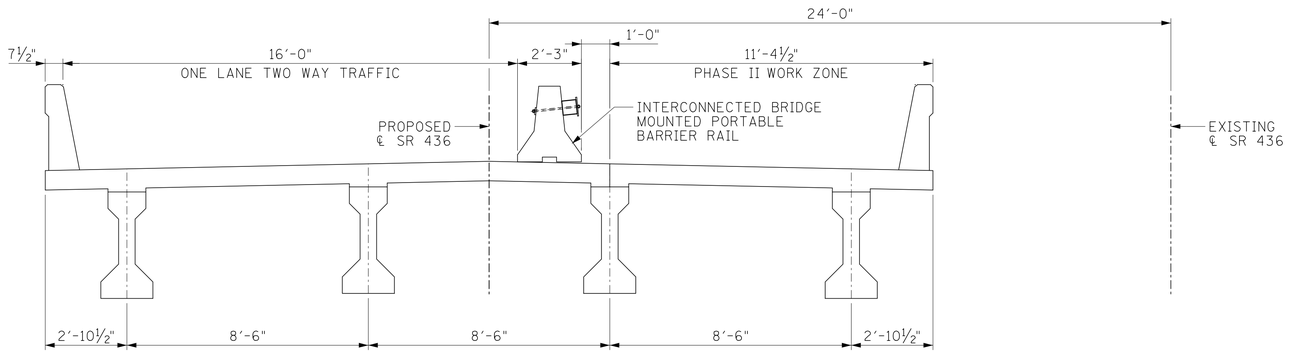
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DRAWN BY	BEG	DATE	05/19
SUPERVISED BY	CDB	DATE	05/19
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CONST. NO. 09035-0220-94

PROJECT NO.	YEAR	SHEET NO.
09035-0220-94	2019	

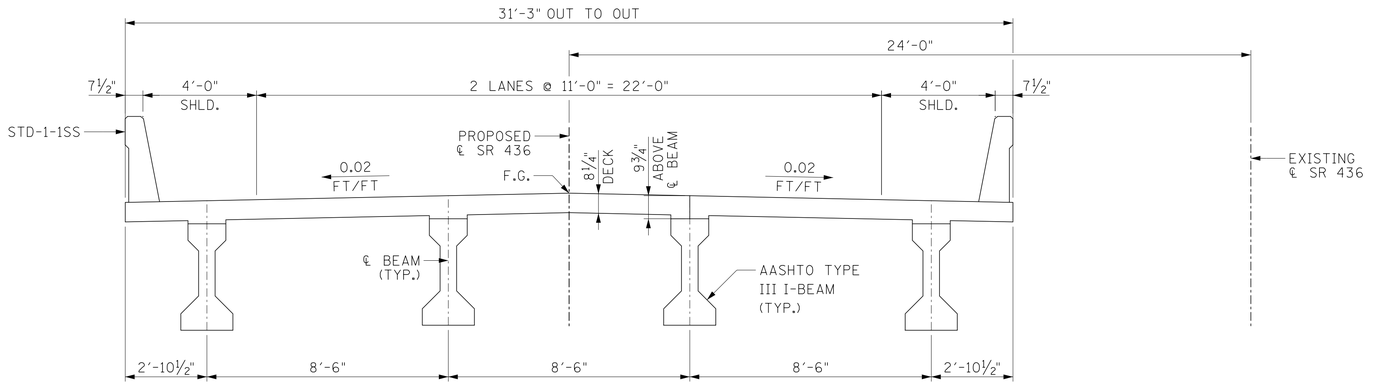
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



PHASE II CONSTRUCTION

(LOOKING FORWARD ON SURVEY)



PROPOSED FINAL SECTION

(LOOKING FORWARD ON SURVEY)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

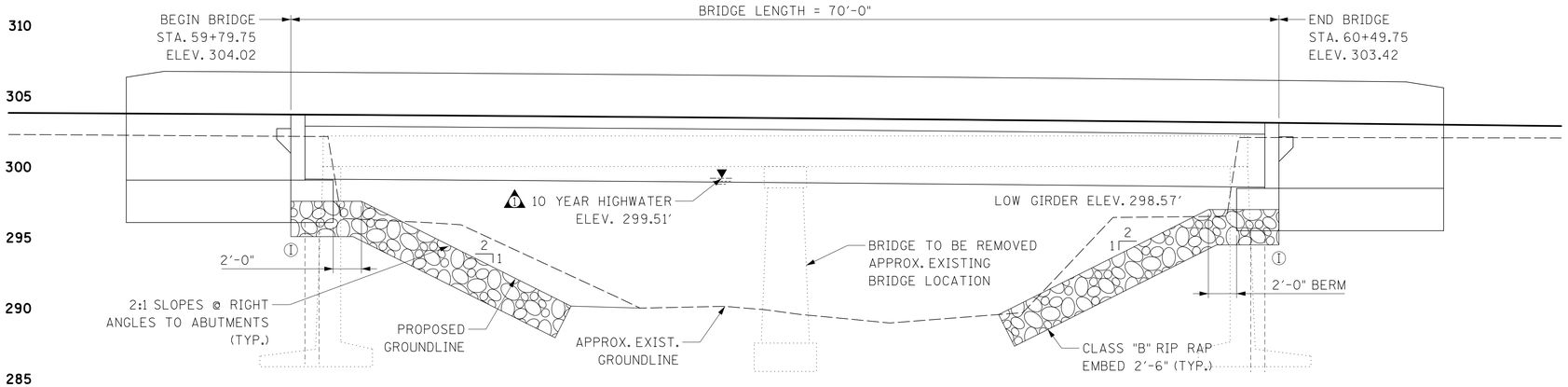
PHASED CONSTRUCTION DETAILS

SR 436 OVER REEDY CREEK
BRIDGE NO. XX-XXX-XXXX

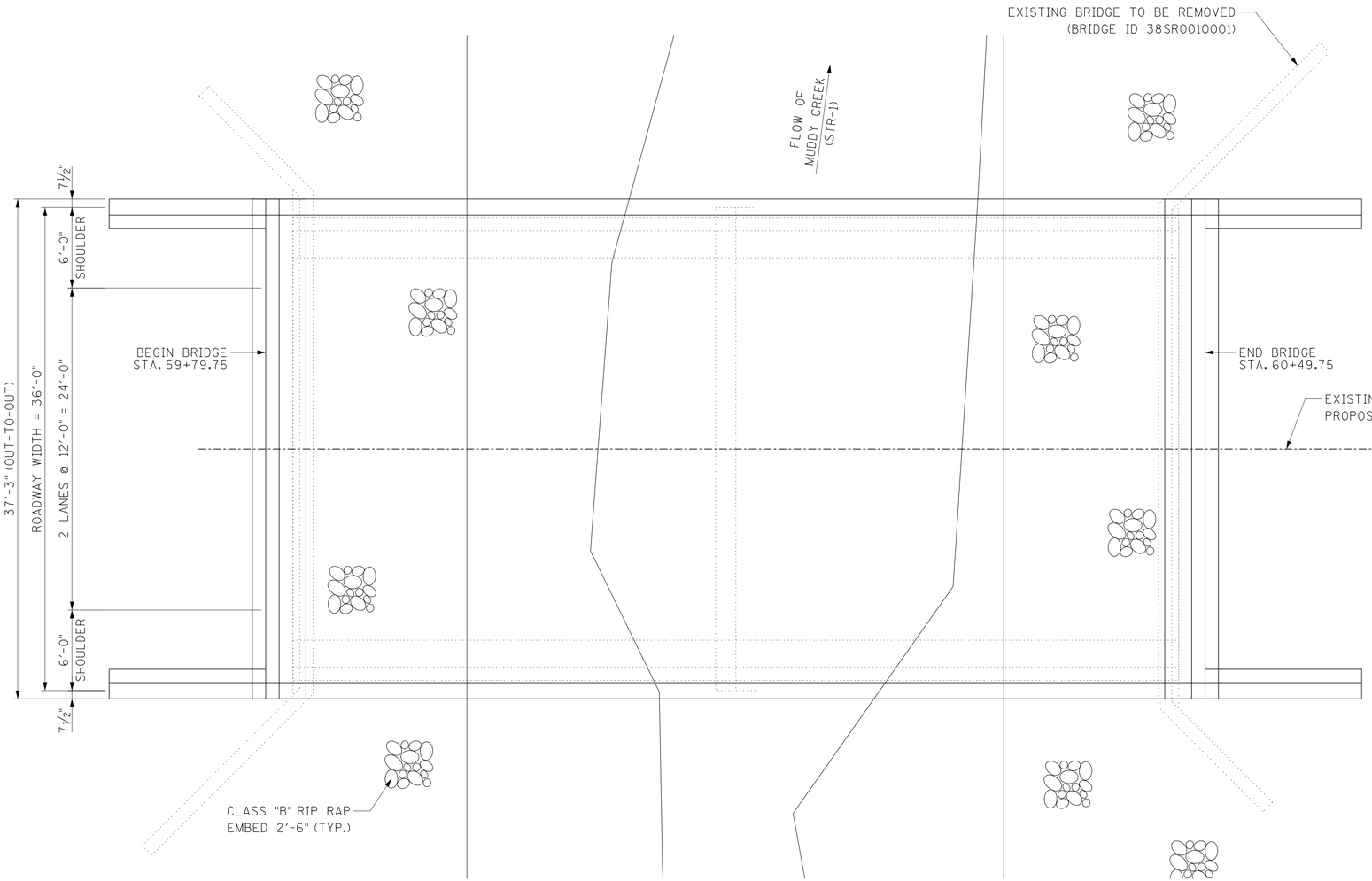
CARROLL COUNTY
2019

UNOFFICIAL SET
NOT FOR BIDDING

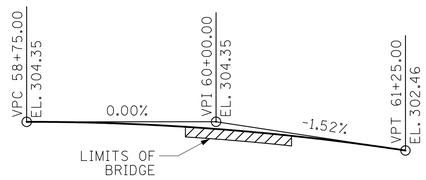
DESIGNED BY BEG DATE 05/19
DRAWN BY BEG DATE 05/19
SUPERVISED BY CDB DATE 05/19
CHECKED BY CDB DATE 05/19



ELEVATION
NOT TO SCALE



PLAN
NOT TO SCALE



GRADE SKETCH
VC = 250'

1 DENOTES: INTEGRAL

CONST. NO. 38002-0216-94

PROJECT NO.	YEAR	SHEET NO.
38002-0216-94	2019	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	01/16/20	CDB	REVISED HYDRAULIC INFORMATION

SCOPE OF WORK

1. MAINTAIN ONE LANE OF TRAFFIC AT ALL TIME USING TEMPORARY TRAFFIC SIGNALS.
2. REMOVE BENTS, SUPERSTRUCTURE, ABUTMENTS AND PLACE NEW SUPERSTRUCTURE AND ABUTMENTS.
3. APPLY TEXTURE COATING TO PARAPET AND CANTILEVER.

GENERAL NOTES

1. SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. (JANUARY 1, 2015)
2. LOADING: HL-93 LIVE LOADING; SEISMIC DESIGN CATEGORY "C" WITH As=0.403, Sds=0.846, Sd1=0.361, (1,000 YEAR RETURN PERIOD). DEAD LOAD INCLUDE 35 LBS/SQ. FT. FOR FUTURE WEARING SURFACE.
3. DESIGN SPECIFICATIONS: AASHTO LRFD 8TH EDITION, 2017, AND THE 2011 AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, EDITION 2 (WITH INTERIMS).
4. CONCRETE: CLASS "A" F'C= 3000 PSI, BRIDGE DECK CLASS "D" F'C= 4000 PSI
5. REINFORCING STEEL: TO BE ASTM A615 GRADE 60. (EPOXY COAT ALL SLAB STEEL)
6. SUPERSTRUCTURE: TO CONSIST OF AASHTO TYPE III BEAMS AND COMPOSITE CONCRETE DECK SLAB.
7. USE STD-I-ISS BRIDGE RAILING.
8. TEXTURE COATING: TO BE MOUNTAIN GREY (36440) EXCEPT TRAFFIC FACE AND TOP OF PARAPET TO BE OFF WHITE (37886)
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10. BRIDGE EXCAVATION IS BASED ON FINAL PROFILE AT ABUTMENTS AND EXISTING GROUND LINE AT BENTS.
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NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA SHALL BE SEPARATED FROM FLOWING WATER. 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 TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS.

1 HYDRAULIC DATA

DRAINAGE AREA .....5.81 SQ. MI.
DESIGN DISCHARGE (10-YEAR).....1,950 CFS
AREA BELOW 10-YEAR ELEVATION.....487 SQ FT
10-YEAR VELOCITY.....4.5 FPS
10 YEAR BRIDGE BACKWATER.....299.51
100-YEAR DISCHARGE.....2,970 CFS
ROADWAY OVERTOPPING ELEVATION.....299.25

2042 ADT = 1,980
DESIGN SPEED = 55 MPH
36'-0" ROADWAY WIDTH WITH STD 1-1SS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LAYOUT OF BRIDGE

SR 1 OVER MUDDY CREEK
BRIDGE NO. XX-XXXX-XXXX

HAYWOOD COUNTY
2019

DESIGNED BY	BEG	DATE	05/19
DRAWN BY	BEG	DATE	05/19
SUPERVISED BY	CDB	DATE	05/19
CHECKED BY	CDB	DATE	05/19

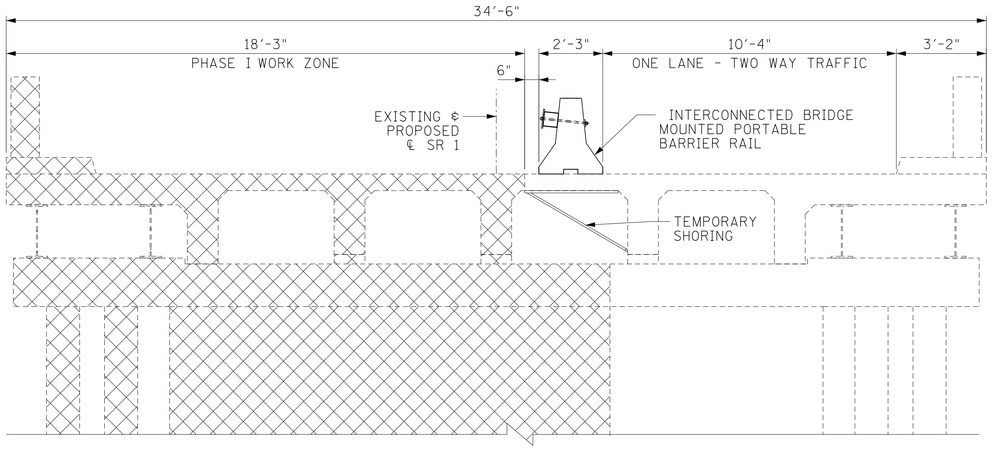
HDR

CONST. NO. 38002-0216-94

PROJECT NO.	YEAR	SHEET NO.
38002-0216-94	2019	

REVISIONS

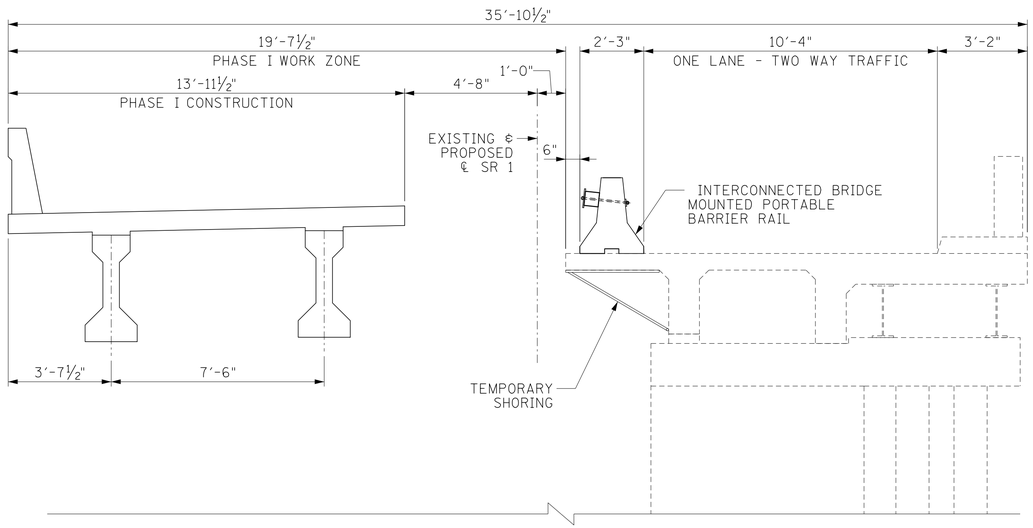
NO.	DATE	BY	BRIEF DESCRIPTION



TYPICAL SECTION - PHASE I DEMOLITION

(LOOKING FORWARD ON SURVEY)

CROSSHATCHING DENOTES PORTION OF EXISTING STRUCTURE TO BE REMOVED.



TYPICAL SECTION - PHASE I CONSTRUCTION

(LOOKING FORWARD ON SURVEY)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASED CONSTRUCTION DETAILS

SR 1 OVER MUDDY CREEK
BRIDGE NO. XX-XXXX-XXXX

HAYWOOD COUNTY
2019

UNOFFICIAL SET
NOT FOR BIDDING

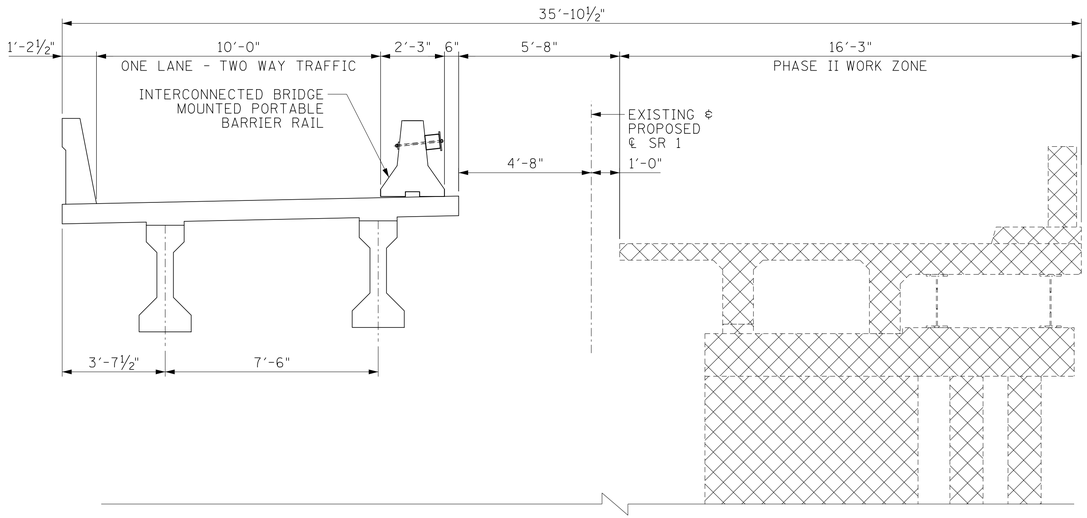
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CONST. NO. 38002-0216-94

PROJECT NO.	YEAR	SHEET NO.
38002-0216-94	2019	

REVISIONS

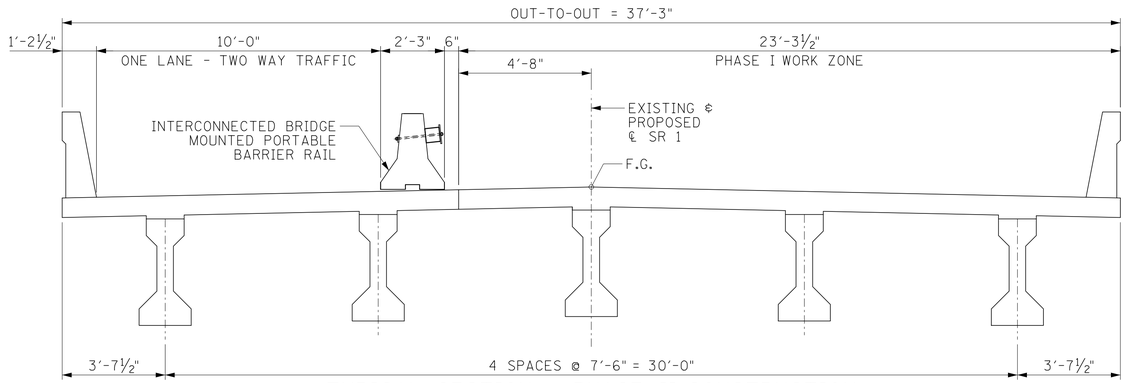
NO.	DATE	BY	BRIEF DESCRIPTION



TYPICAL SECTION - PHASE II DEMOLITION

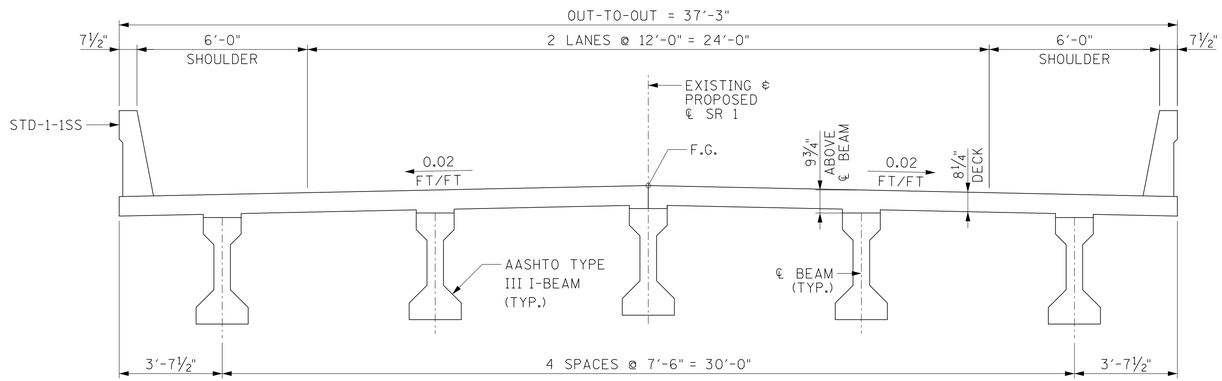
(LOOKING FORWARD ON SURVEY)

CROSSHATCHING DENOTES PORTION OF EXISTING STRUCTURE TO BE REMOVED.



TYPICAL SECTION - PHASE II CONSTRUCTION

(LOOKING FORWARD ON SURVEY)



TYPICAL SECTION - FINAL CONFIGURATION

(LOOKING FORWARD ON SURVEY)

DESIGNED BY BEG DATE 05/19
DRAWN BY BEG DATE 05/19
SUPERVISED BY CDB DATE 05/19
CHECKED BY CDB DATE 05/19

HDR

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PHASED CONSTRUCTION DETAILS

SR 1 OVER MUDDY CREEK
BRIDGE NO. XX-XXXX-XXXX

HAYWOOD COUNTY
2019

UNOFFICIAL SET
NOT FOR BIDDING