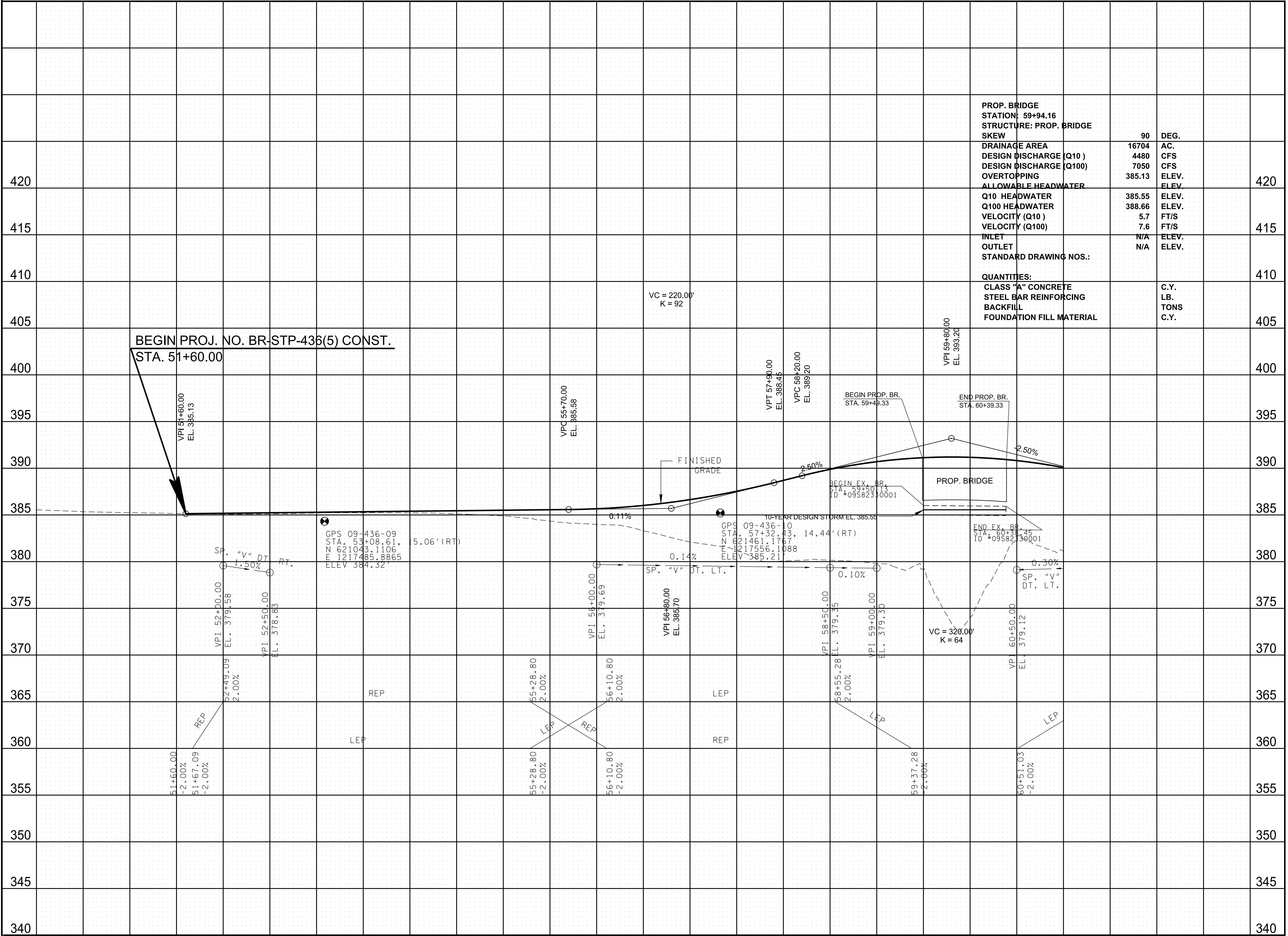


1/22/2020 2:56:05 PM
c:\pwworking\least01\0926576\004C.sht



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.

CAUTION!
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

SEALED BY

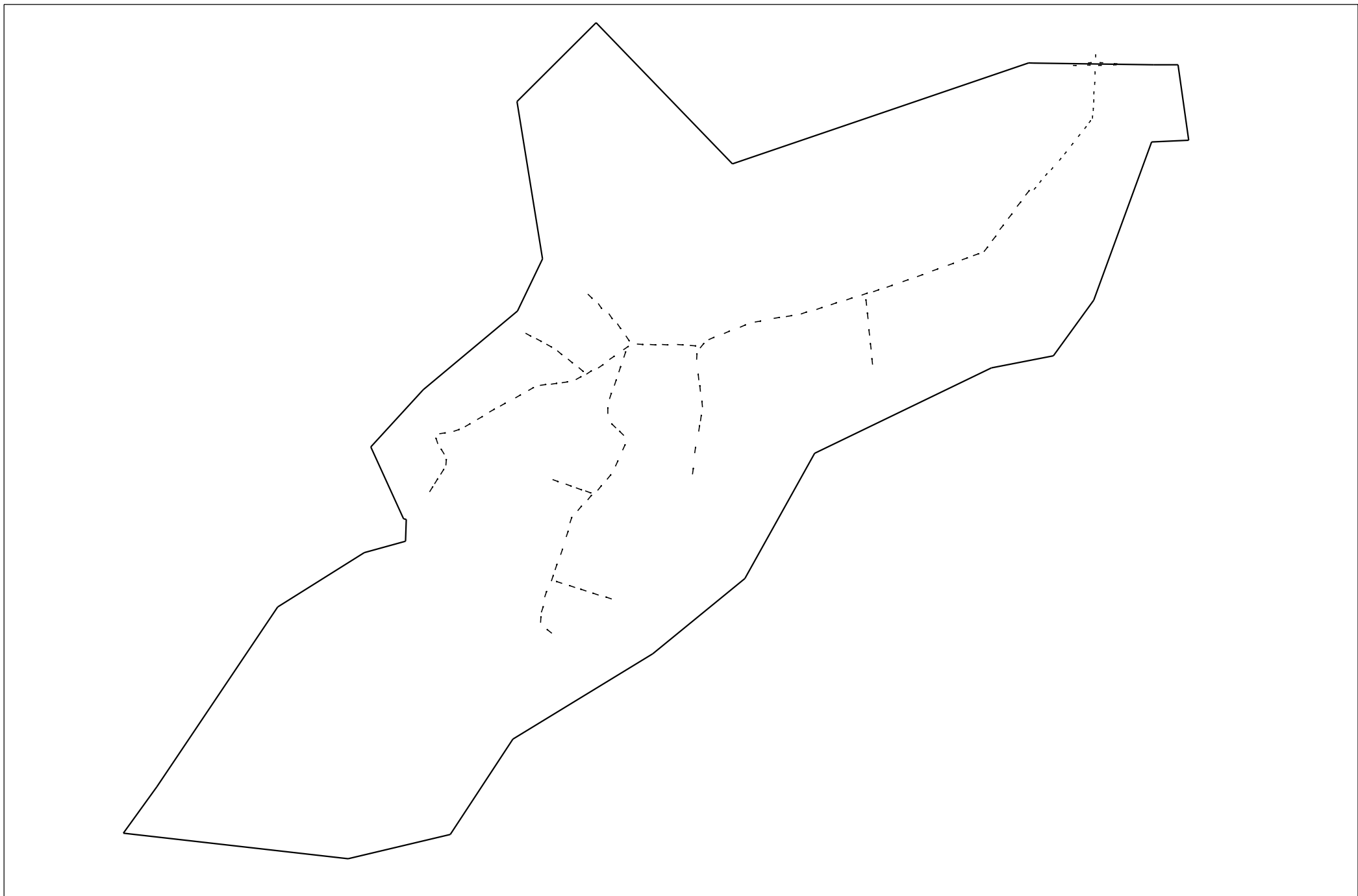
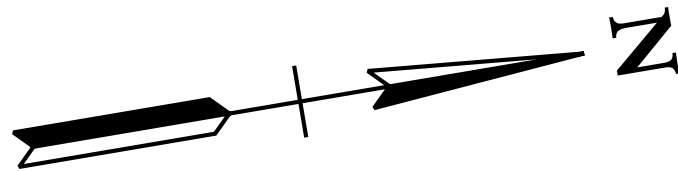
COORDINATES ARE NAD 83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
PROFILE
STA. 51+60 TO STA. 61+00
SCALE: 1"= 50' HORIZ.
1"= 5' VERT.

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

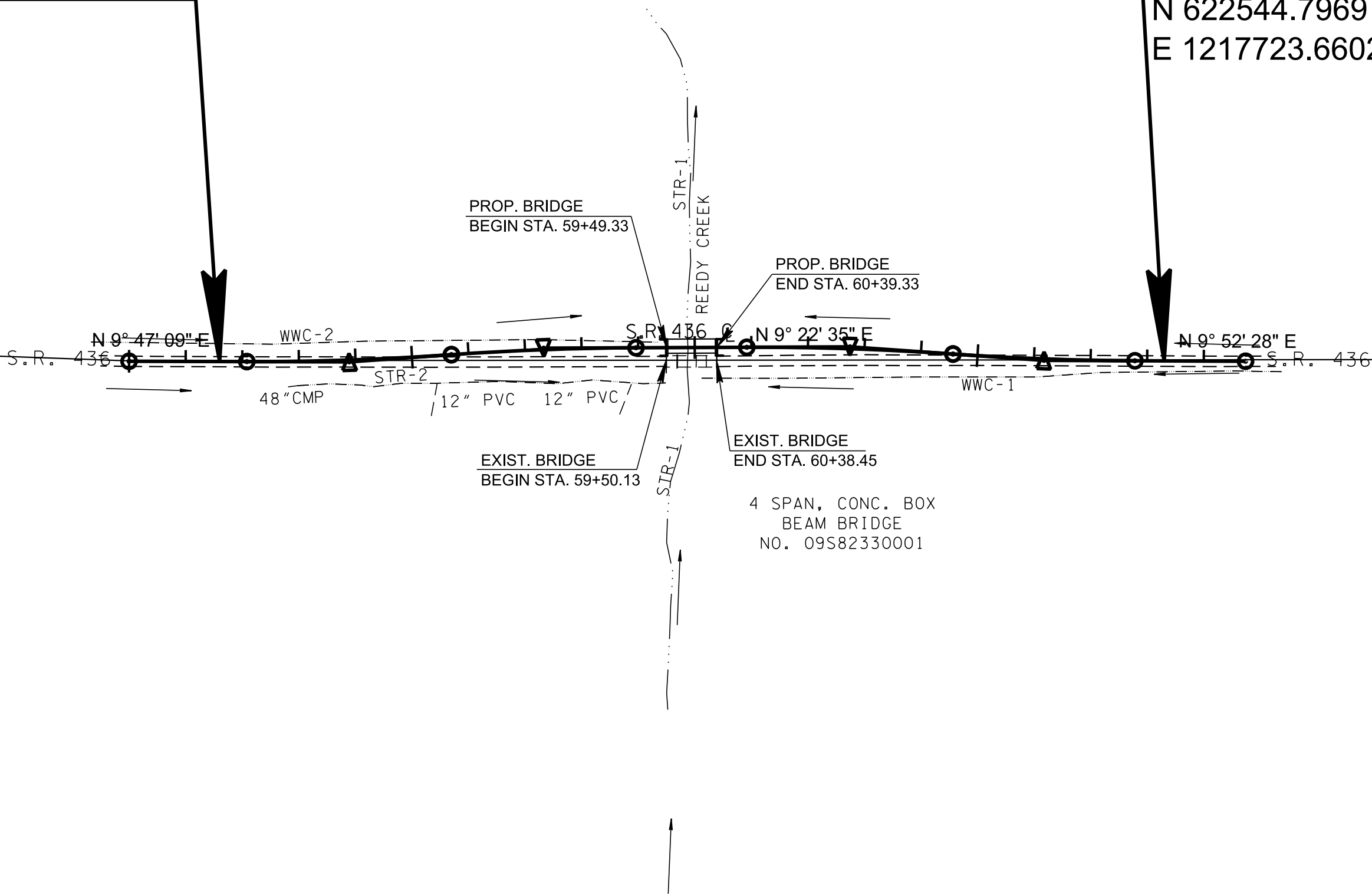
55

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		
SKIEW	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.

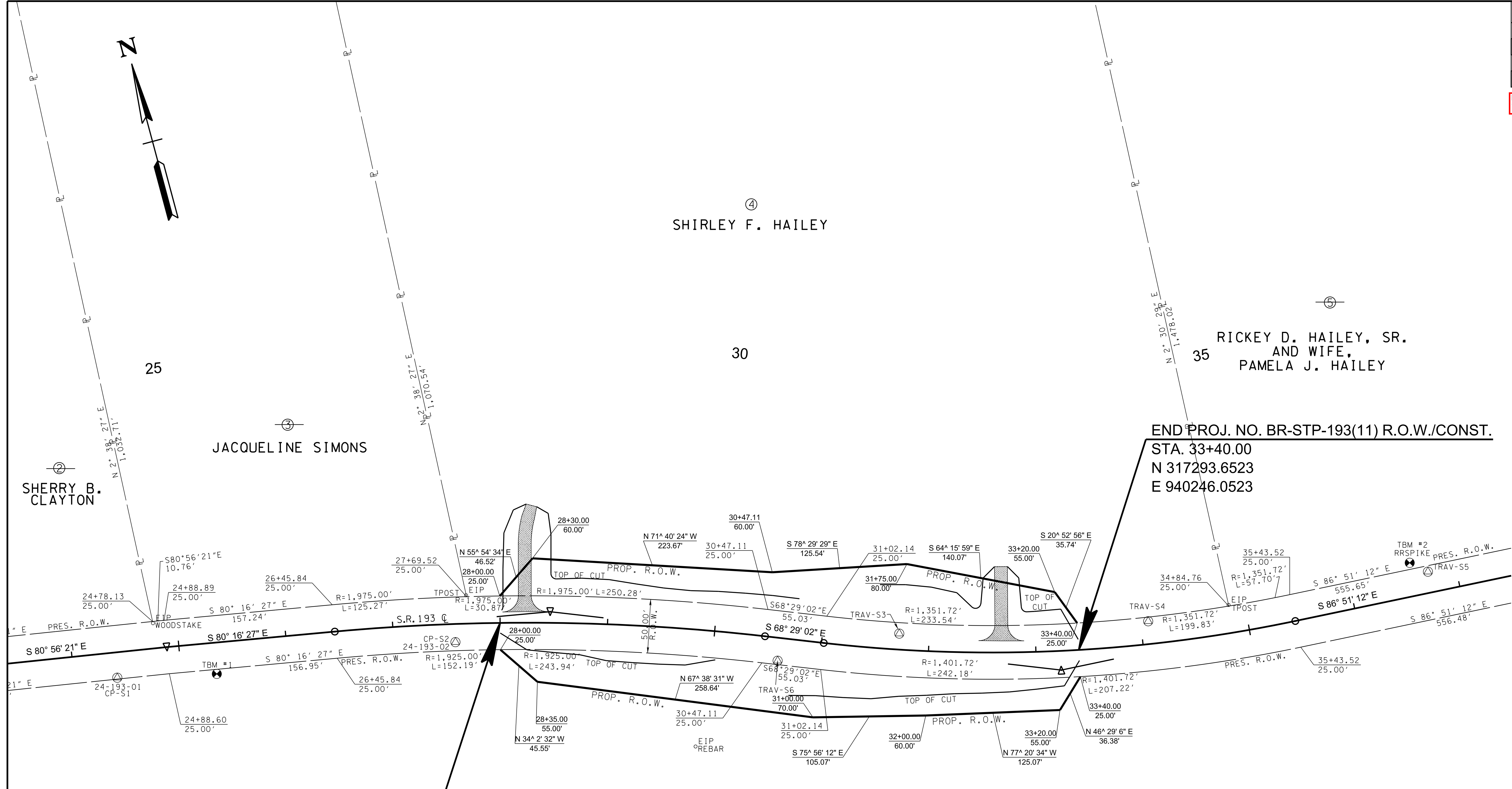
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE
MAP

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

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

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



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

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

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.

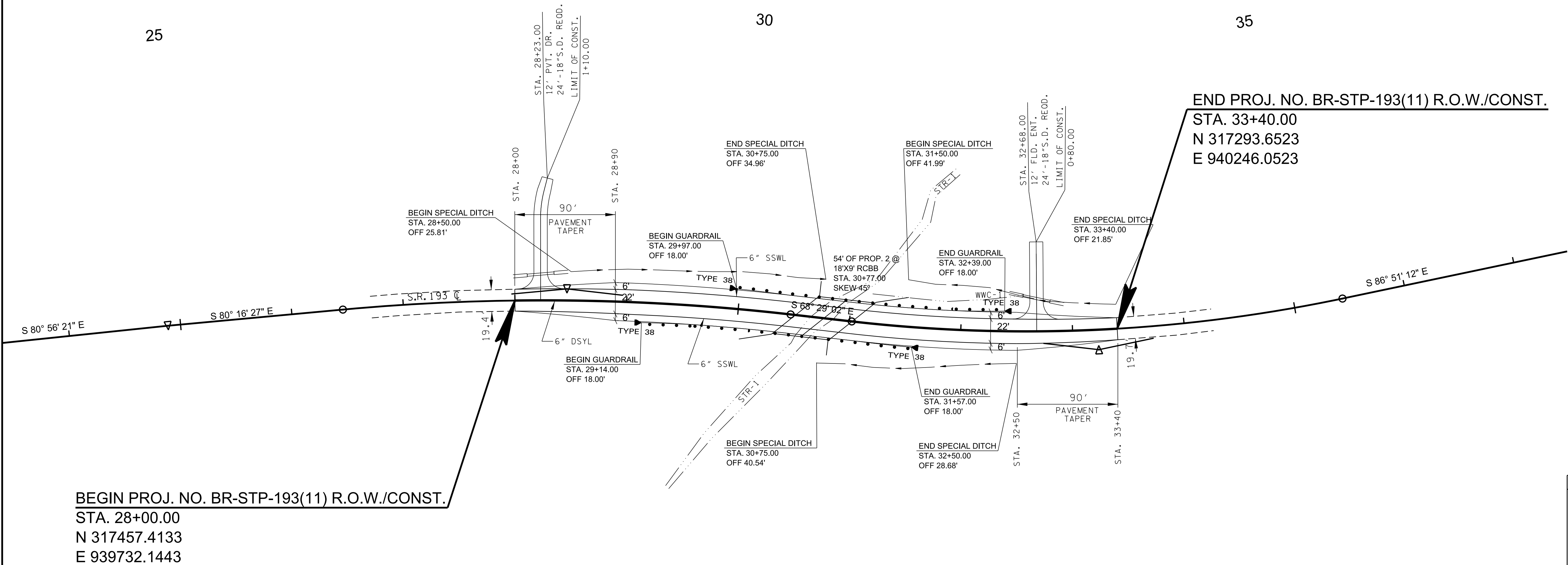
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY
DETAILS

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

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

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

PROPOSED
LAYOUT

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

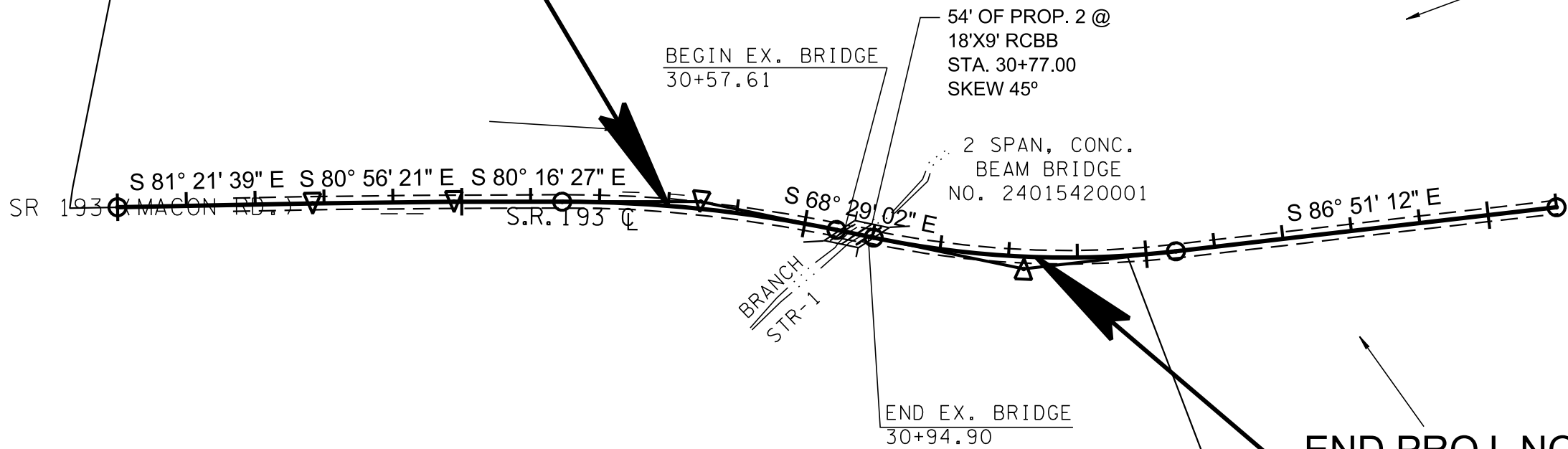
BEGIN PROJ. NO. BR-STP-193(11) R.O.W./CONST.
STA. 28+00.00
N 317457.4133
E 939732.1443

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

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.

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

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

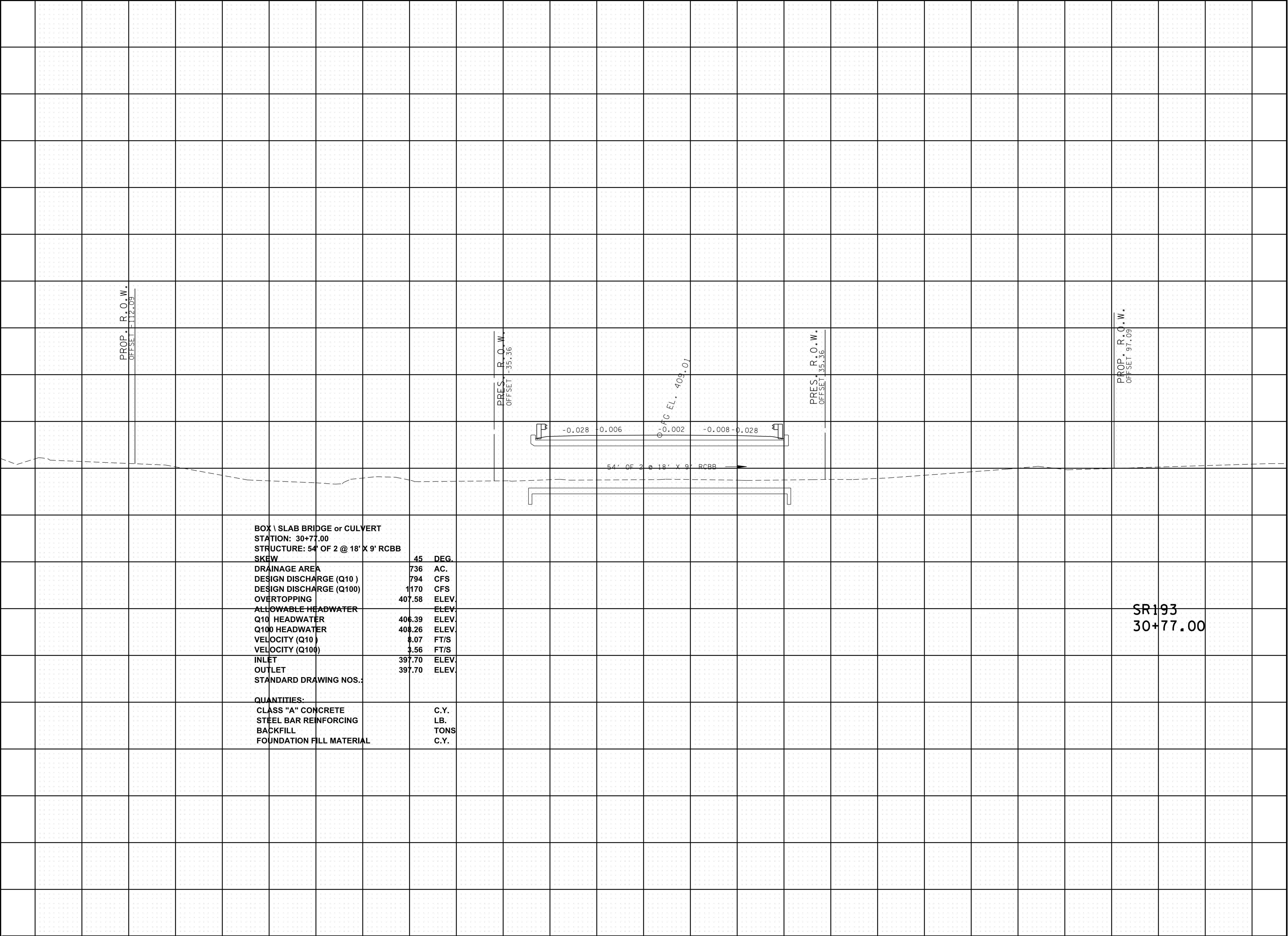
COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE
MAP

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

1/22/2020 4:34:55 PM
c:\pwworking\least01\092657\007.sht



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

SEALED BY

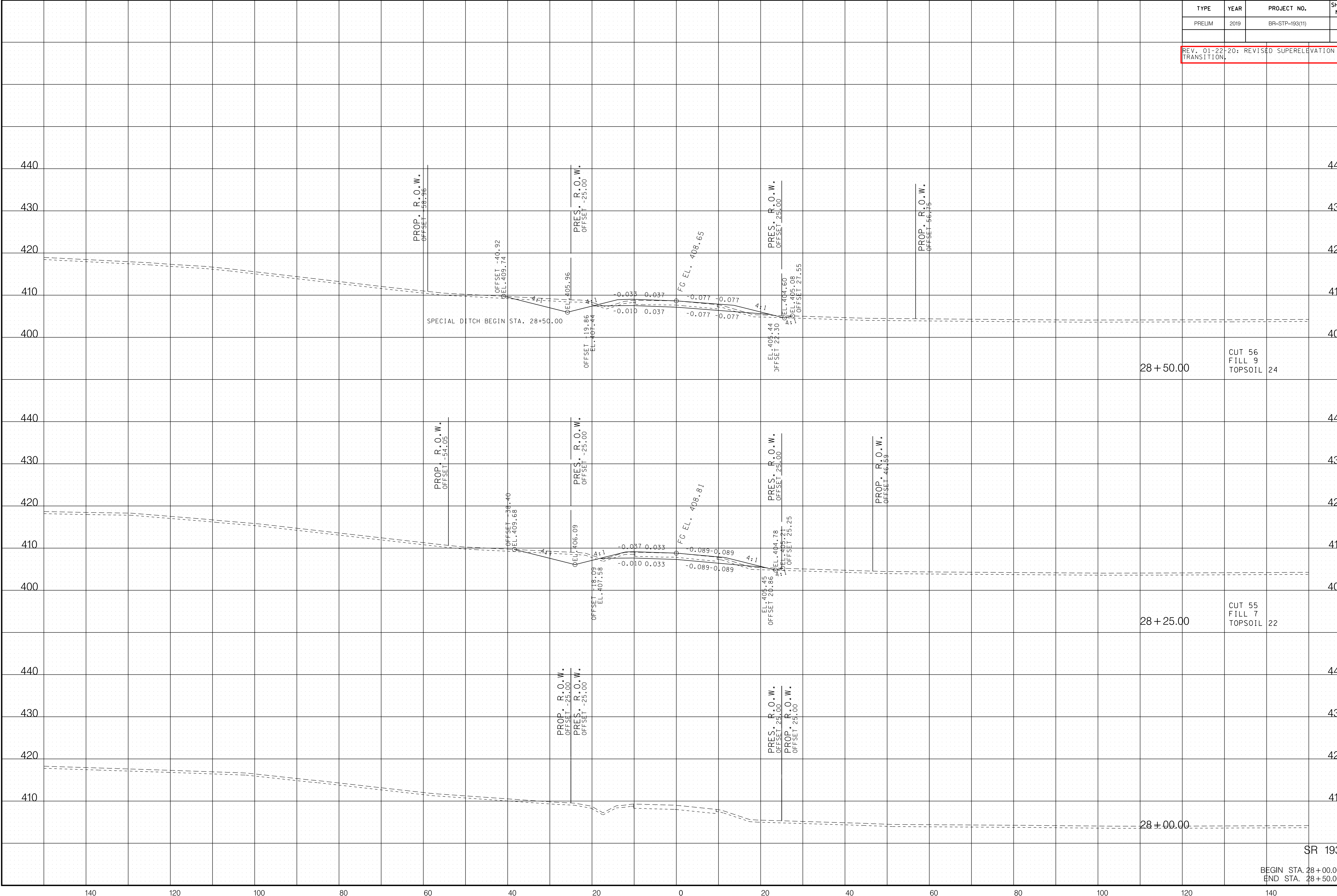
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
SECTION

1/22/2020 3:44:16 PM
c:\pwworking\east01\d0926577\FASR03\XSSheets.sht

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

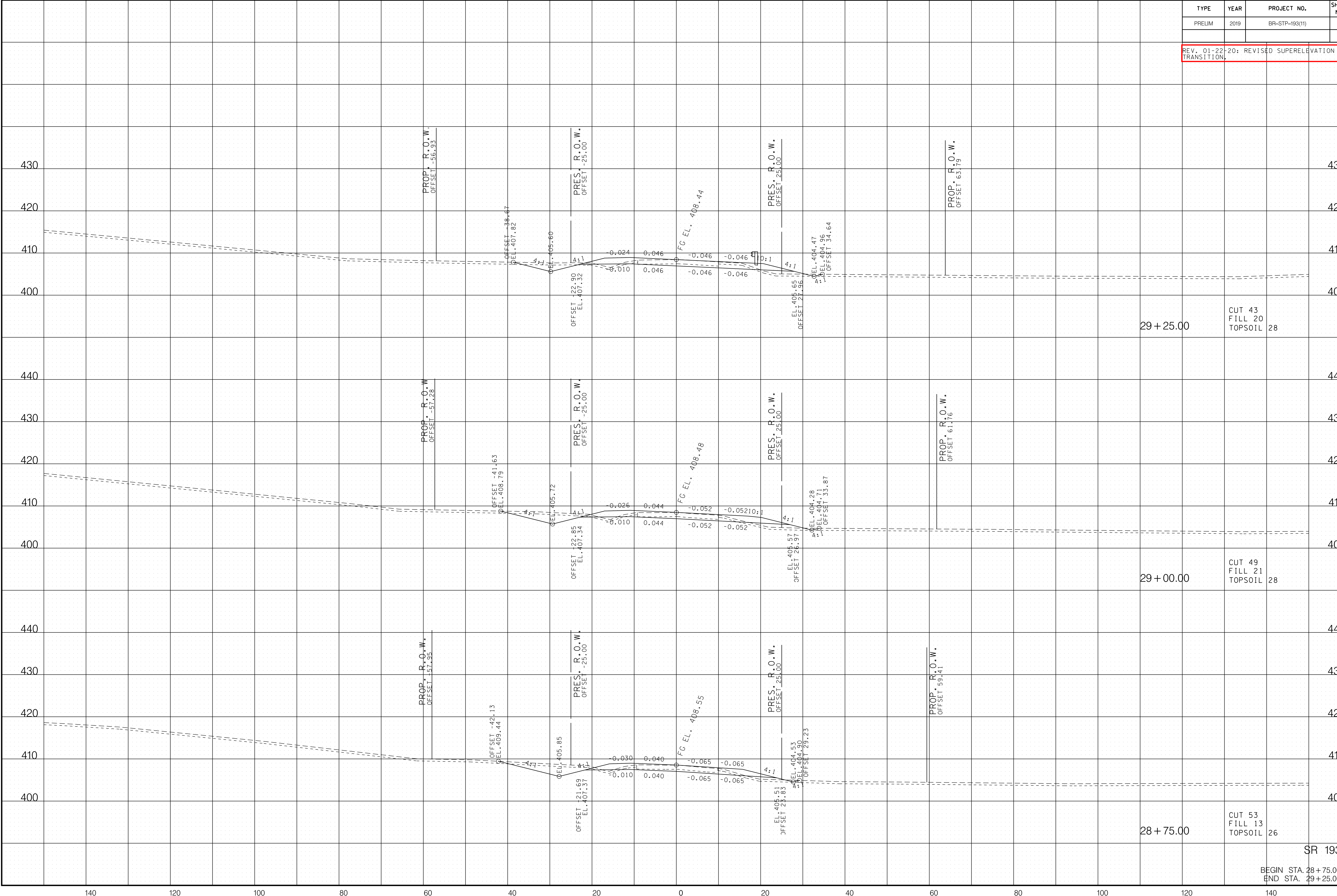
REV. 01-22-20: REVISED SUPERELEVATION TRANSITION.



1/22/2020 3:44:17 PM
c:\pwworking\east01\d0926577\FASRR93\XSSheets.shx

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

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



SR 193

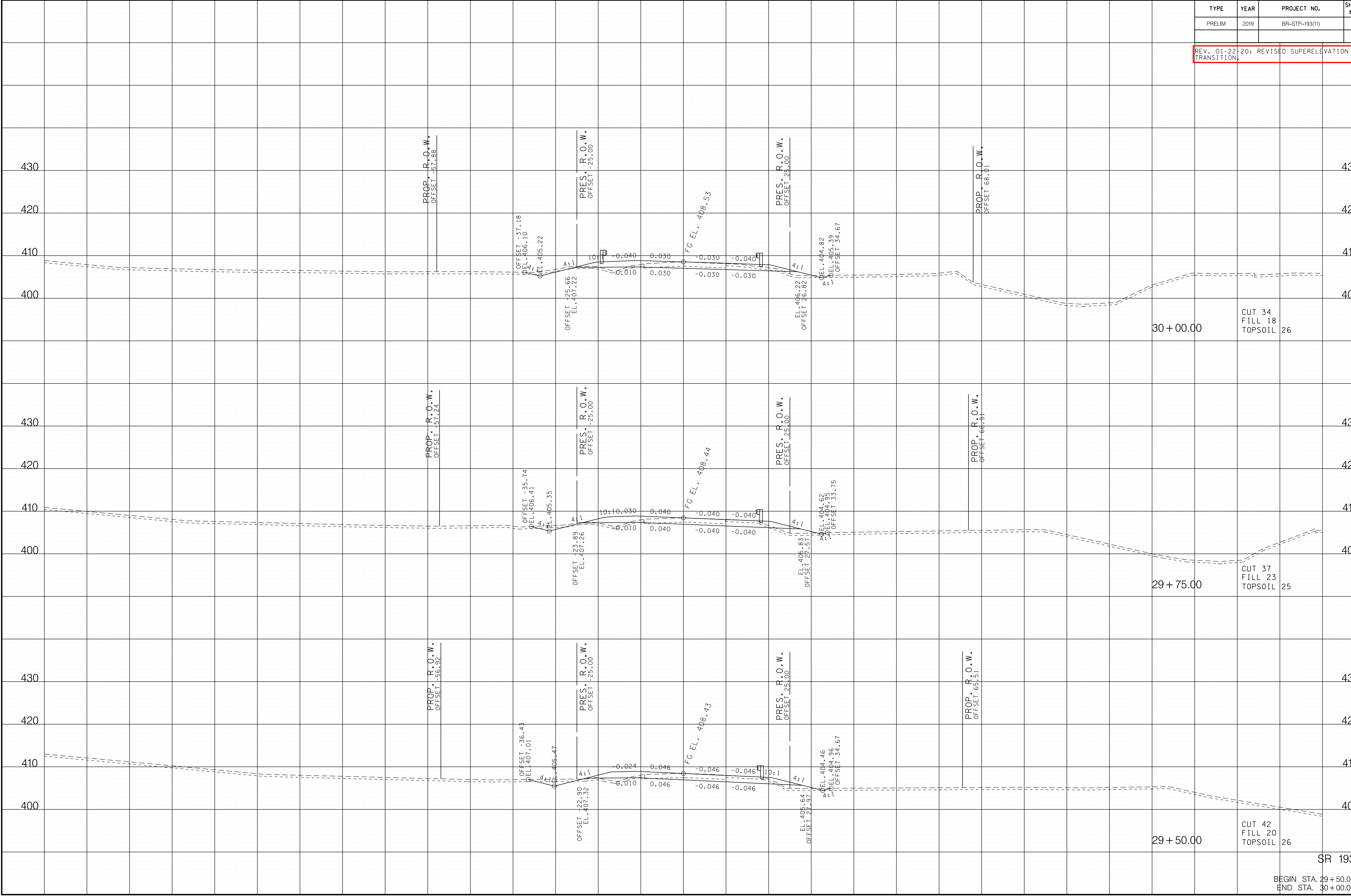
BEGIN STA. 28+75.00
END STA. 29+25.00

1/22/2020 3:44:18 PM

c:\pwworking\east01\d0926577\FASR93\XSheets.sht

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

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

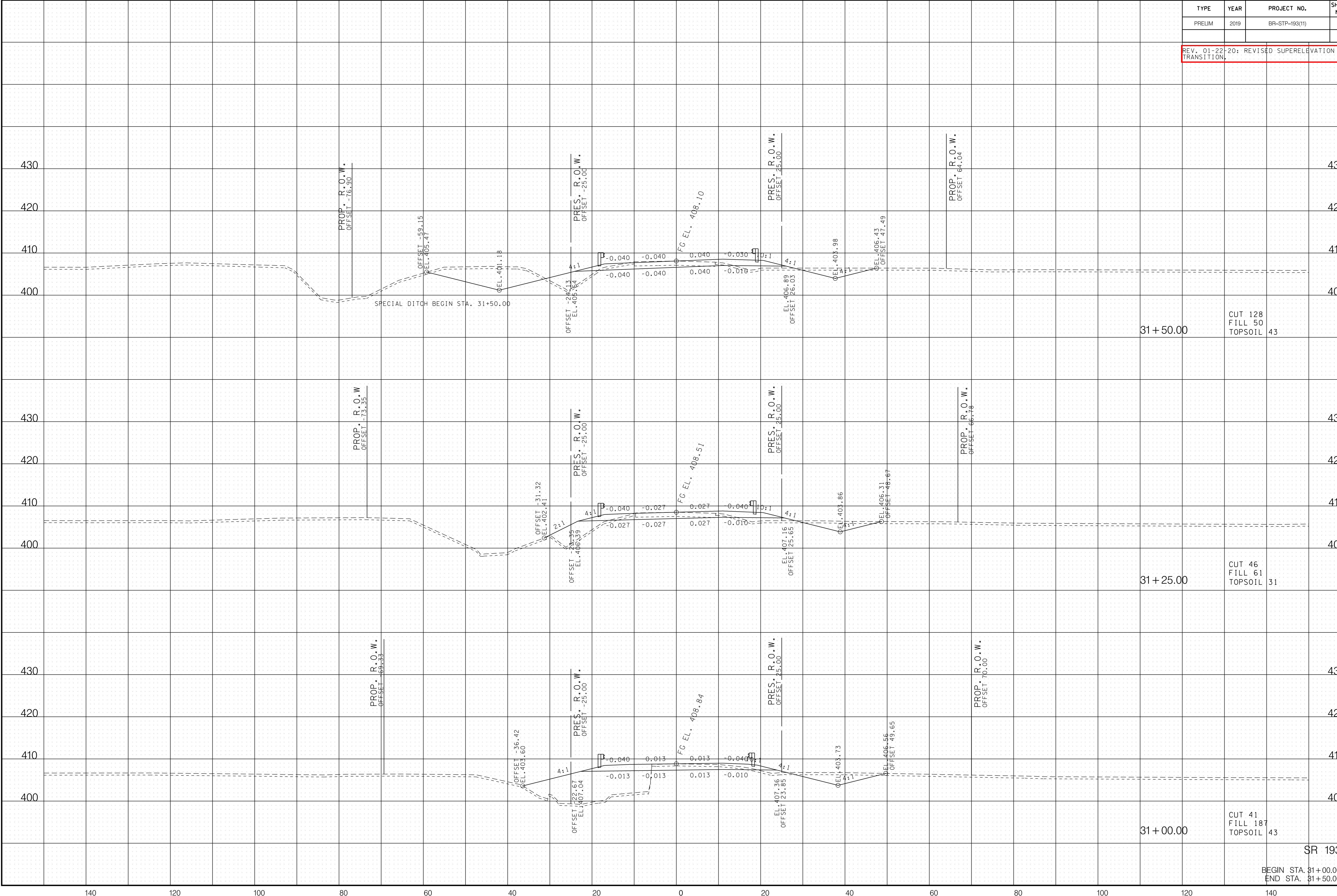


SR 193
BEGIN STA. 29+50.00
END STA. 30+00.00

I:\22\2020 3:44:20 PM
c:\pwworking\east01\d0926577\FASR93\XSSheets.sht

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

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



31 + 50.00 CUT 128 FILL 50 TOPSOIL 43

31 + 25.00 CUT 46 FILL 61 TOPSOIL 31

31 + 00.00 CUT 41 FILL 187 TOPSOIL 43

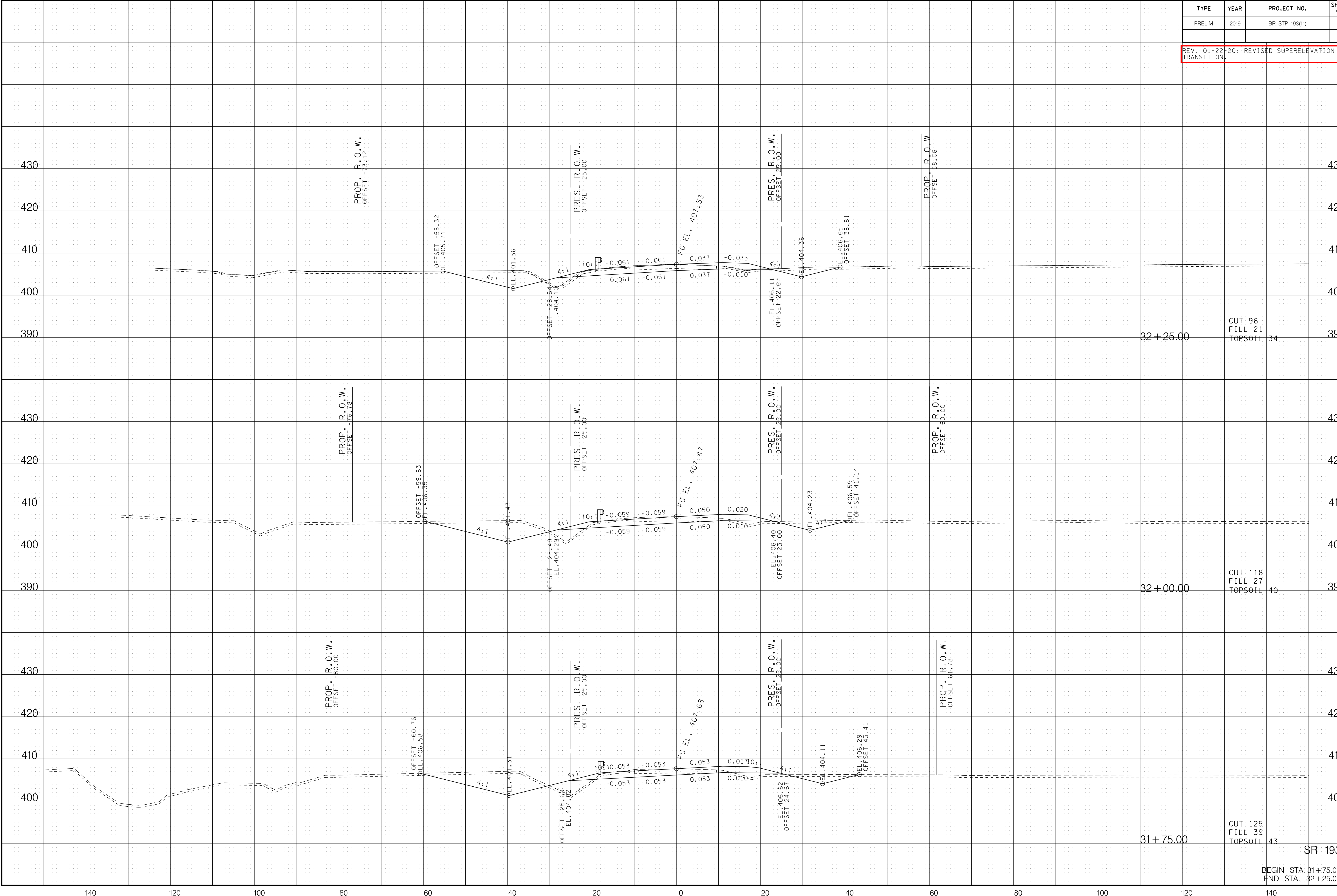
SR 193

BEGIN STA. 31+00.00
END STA. 31+50.00

I:\22\2020 3:44:21PM
c:\pwworking\east01\d0926577\FASR\93\XSSheets.sht

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

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



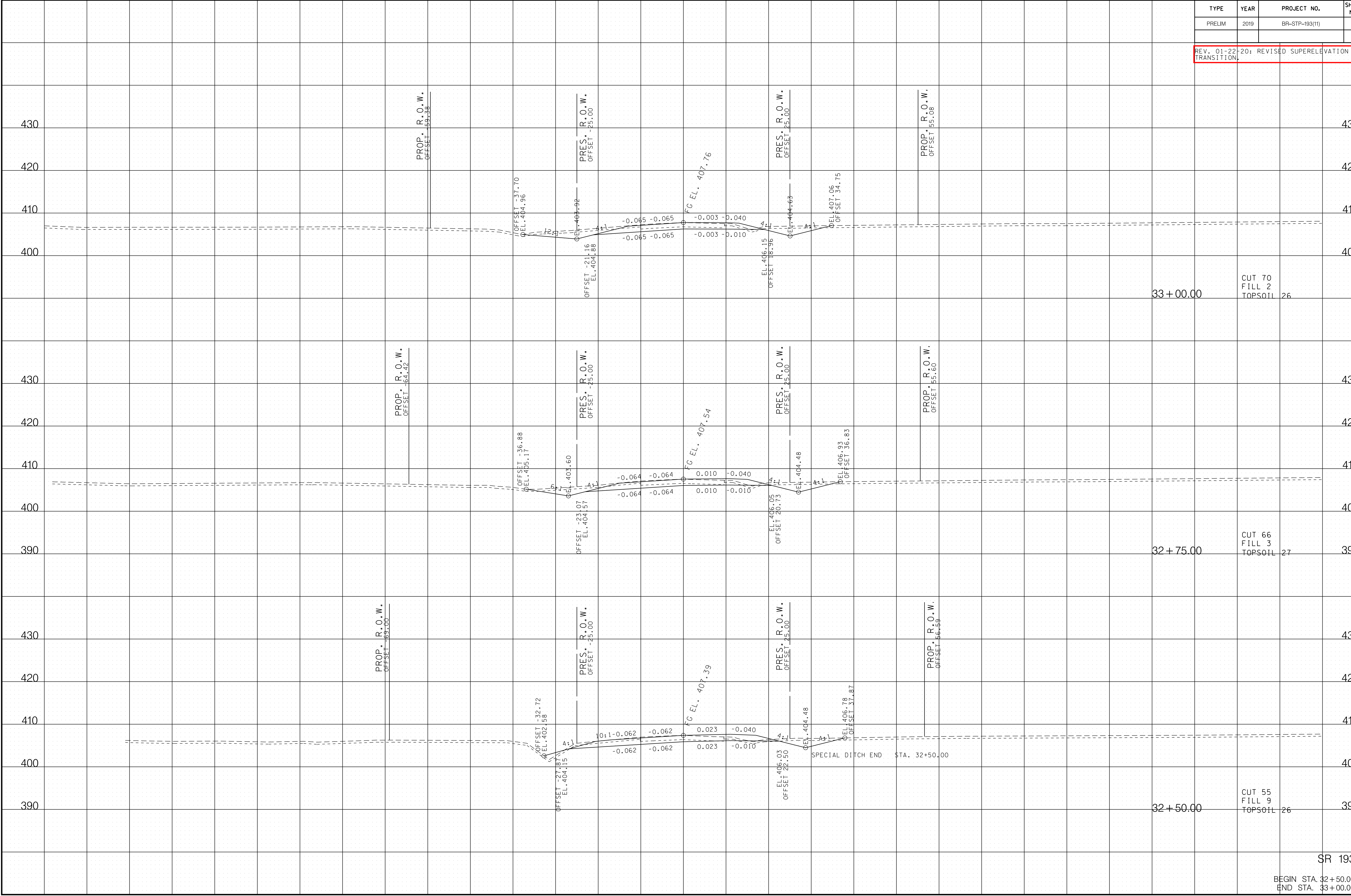
SR 193

BEGIN STA. 31+75.00
END STA. 32+25.00

I:\22\2020 3:44:22 PM
c:\pwworking\east01\0926577\FASR\93\XSheets.sht

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

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



33+00.00

CUT 70
FILL 2
TOPSOIL 26

32+75.00

CUT 66
FILL 3
TOPSOIL 27

32+50.00

CUT 55
FILL 9
TOPSOIL 26

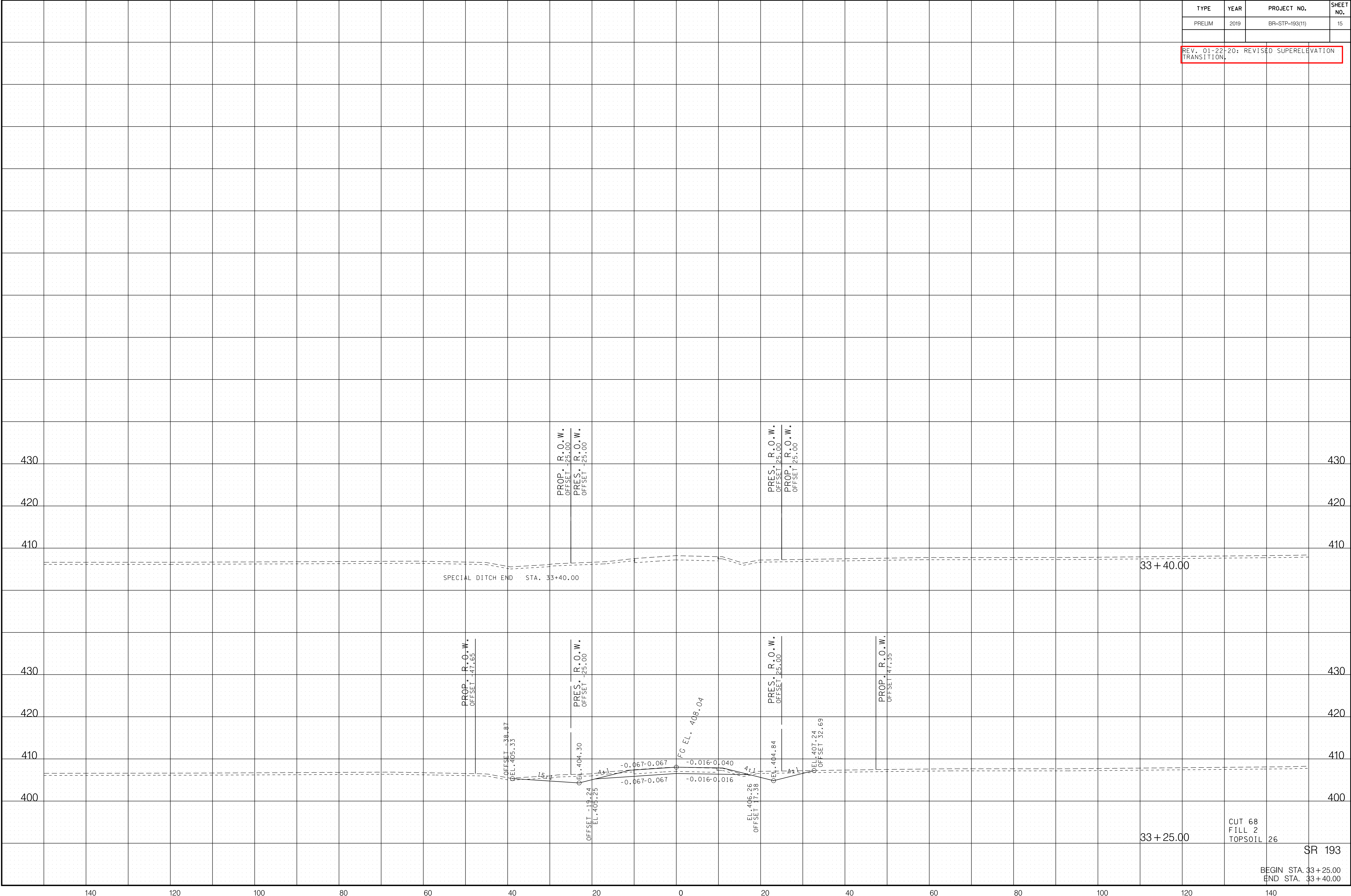
SR 193

BEGIN STA. 32+50.00
END STA. 33+00.00

I:\22\2020 3:44:23 PM
c:\pwworking\east01\d0926577\FASR93\XSSheets.sht

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

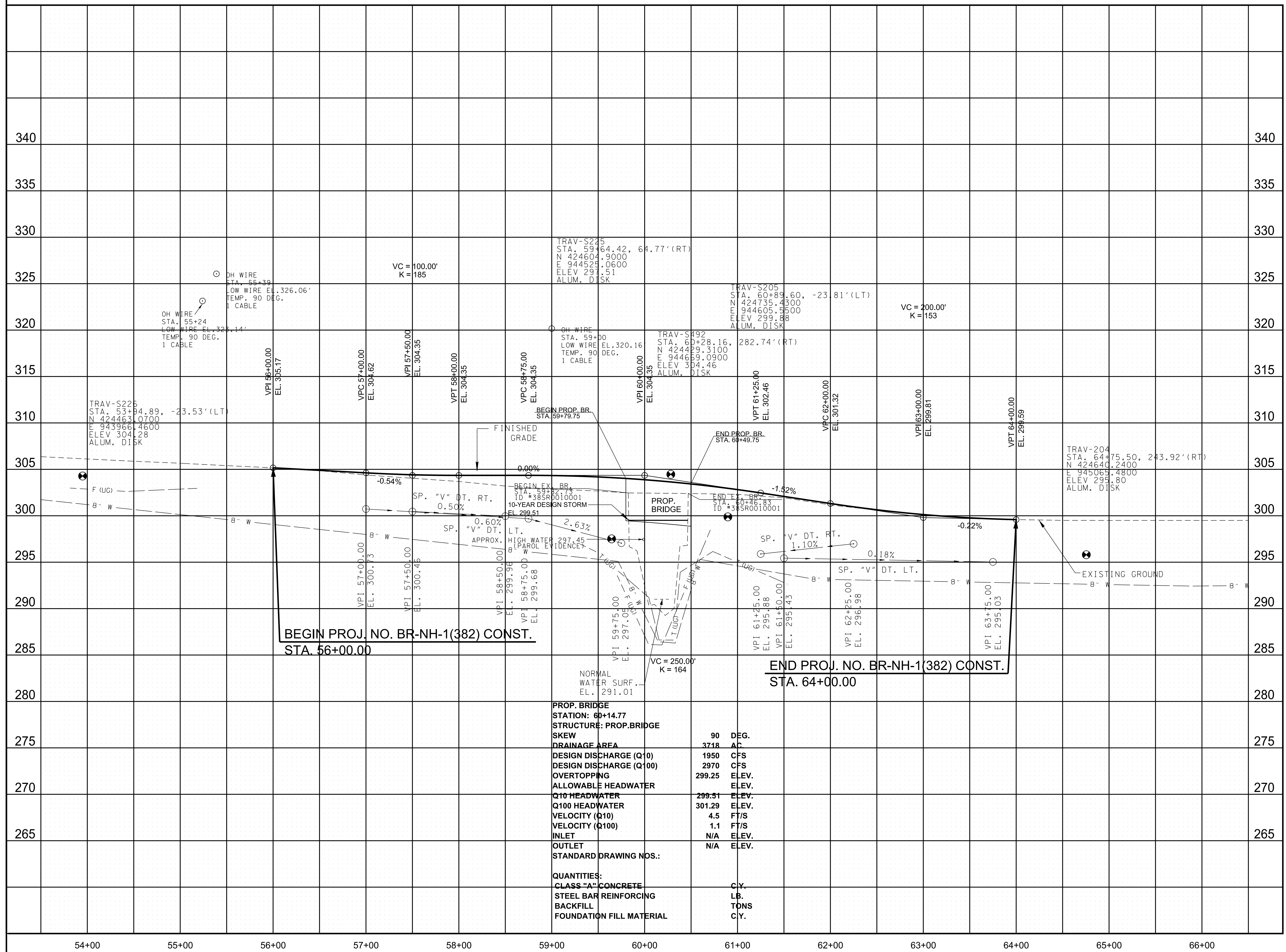
REV. 01-22-20: REVISED SUPERELEVATION TRANSITION.



33+25.00
CUT 68
FILL 2
TOPSOIL 26
SR 193
BEGIN STA. 33+25.00
END STA. 33+40.00

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.



**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

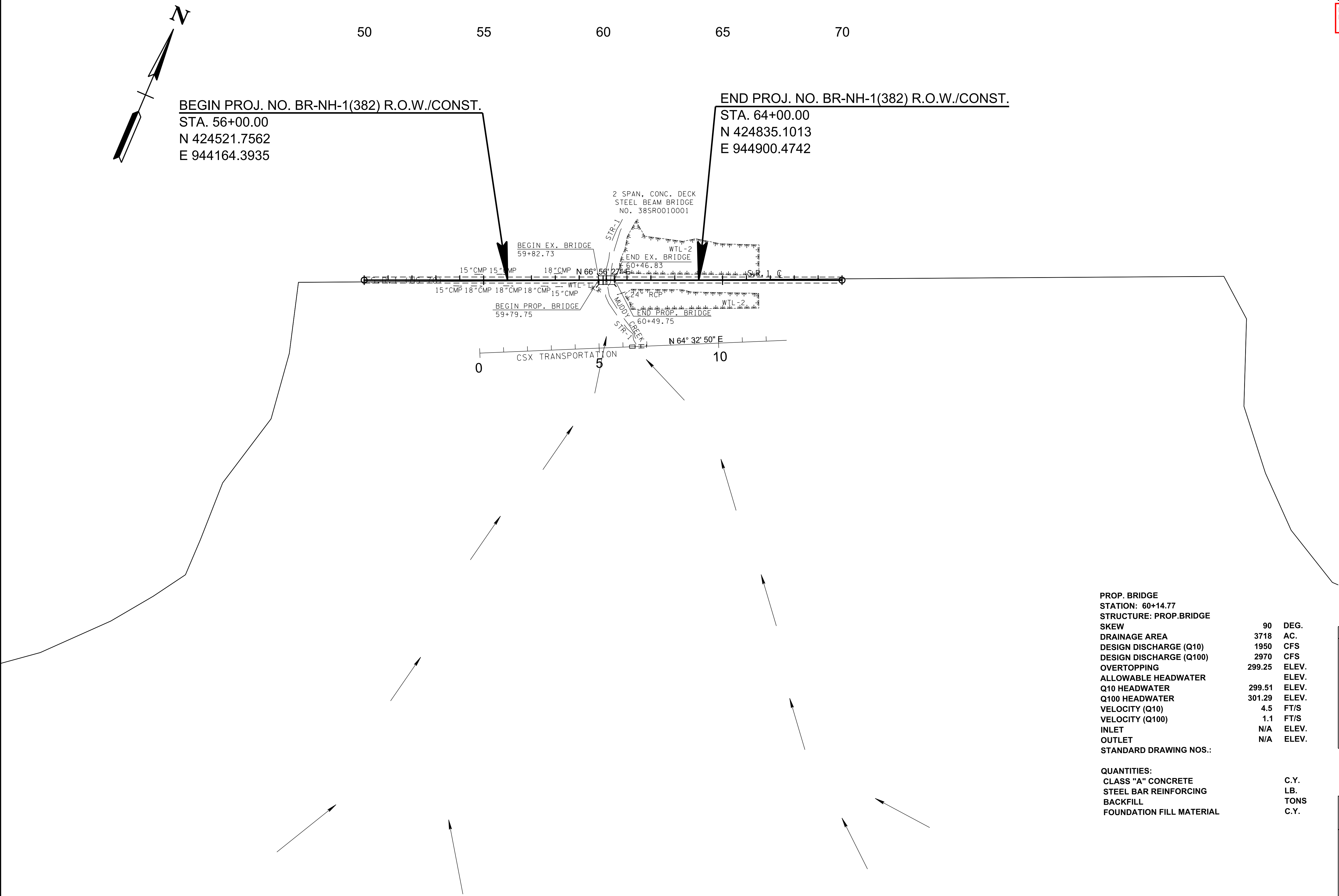
PROPOSED PROFILE

STA. 56+00 TO STA. 64+00

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

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

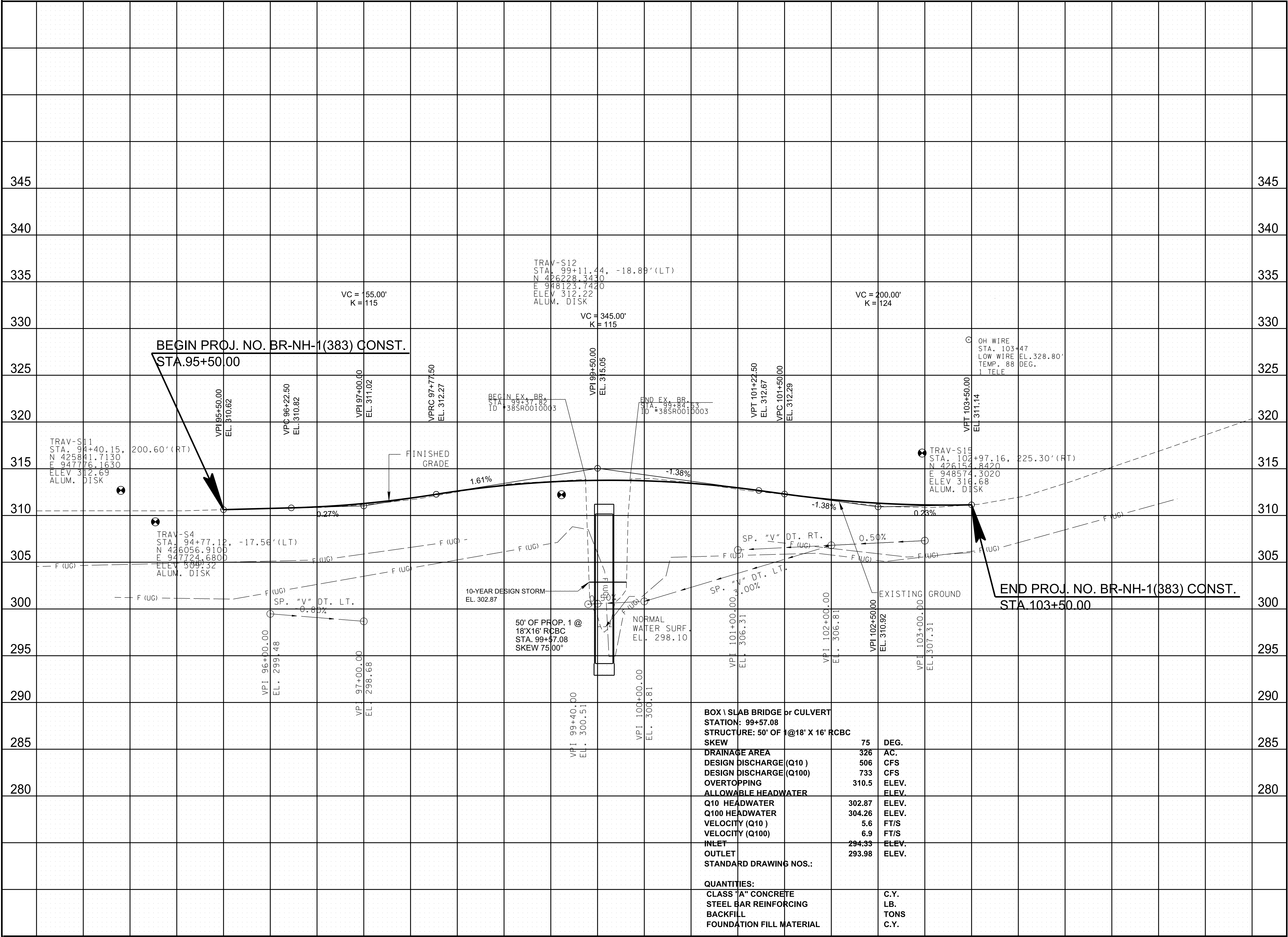
SEALED BY

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

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

1/22/2020 2:59:13 PM
c:\pwworking\least01\0926580\004C.sht



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.

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. 95+50 TO STA. 103+50

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

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.

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

POT 100+00.00

100

105

110

②

①

②

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

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
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

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

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.

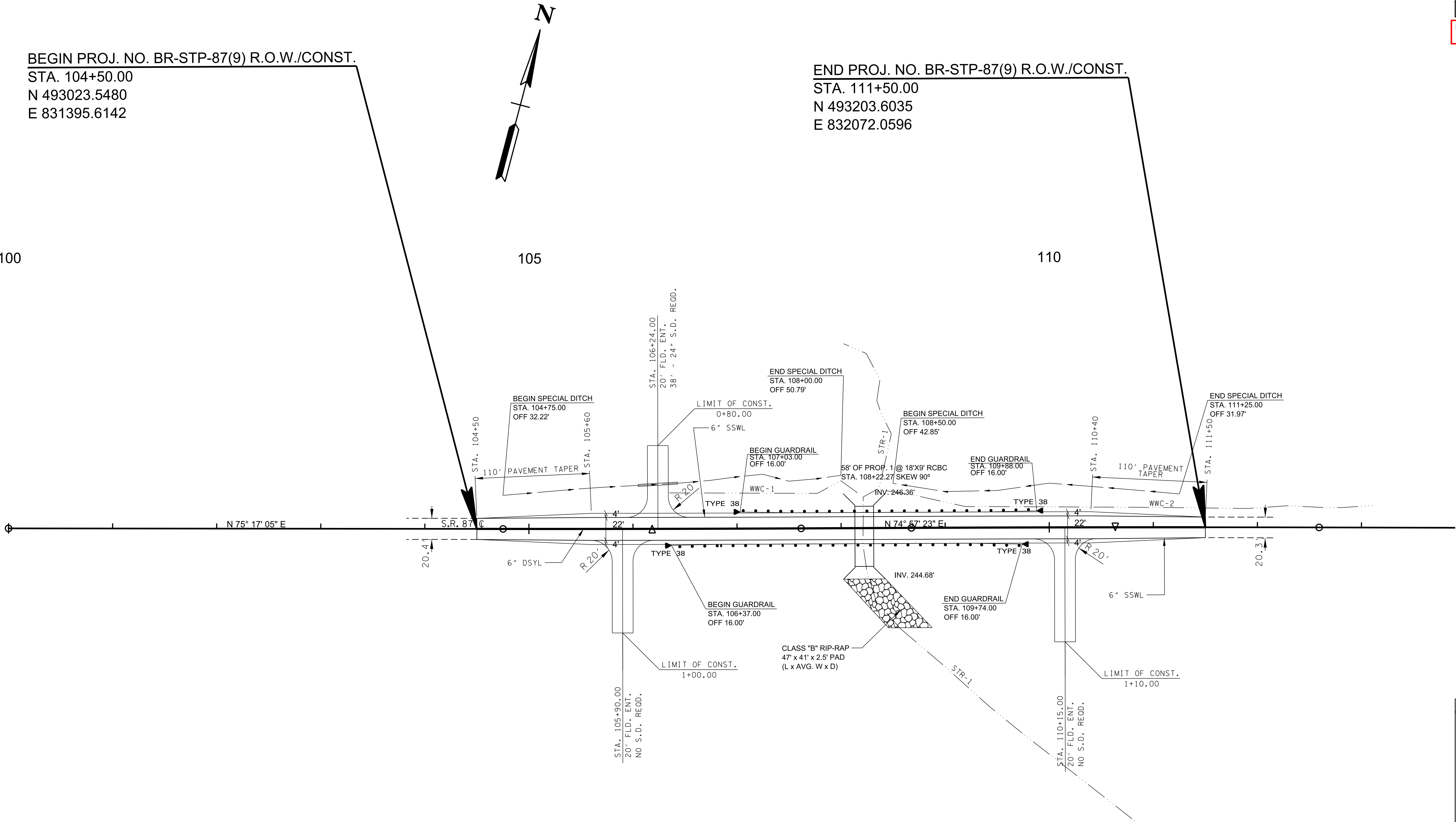
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT
LAYOUT

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

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.



CAUTION!
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

SEALED BY

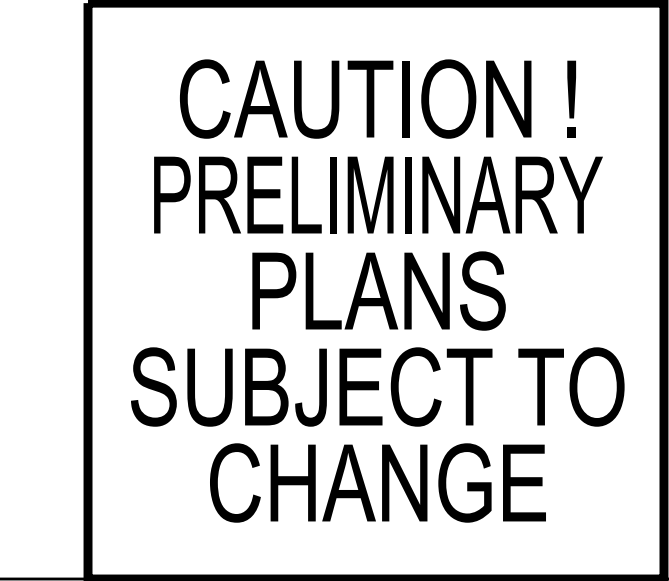
COORDINATES ARE NAD 83(1995), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00005 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED
LAYOUT

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

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



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.

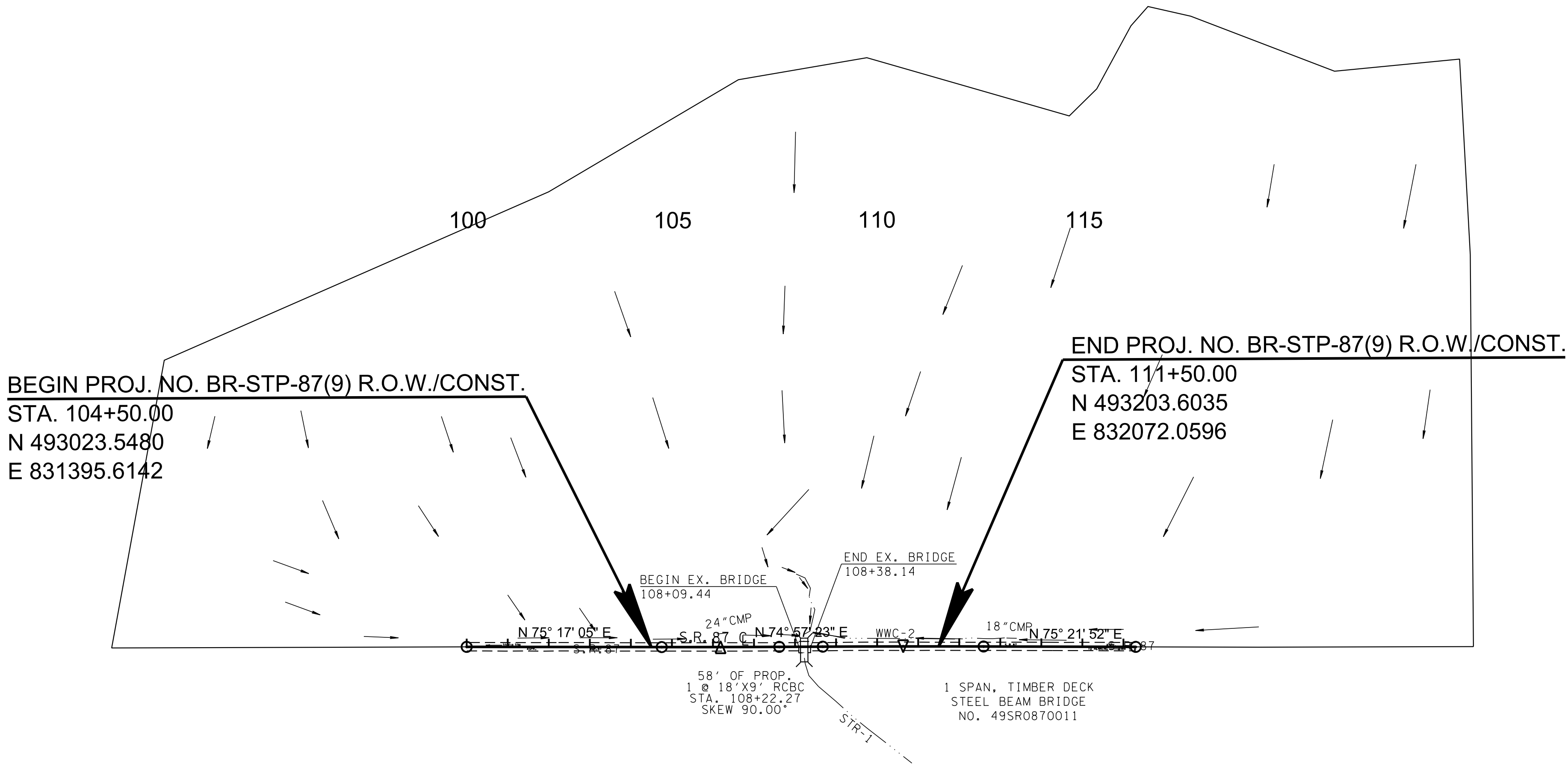
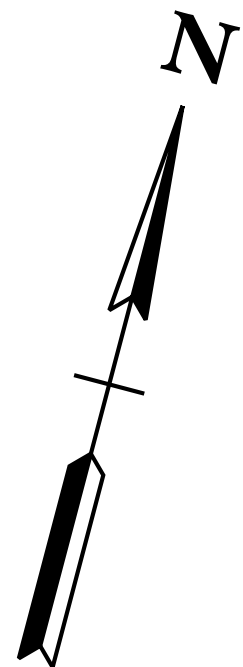
PROPOSED
PROFILE

STA. 104+50 TO STA. 111+50

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

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

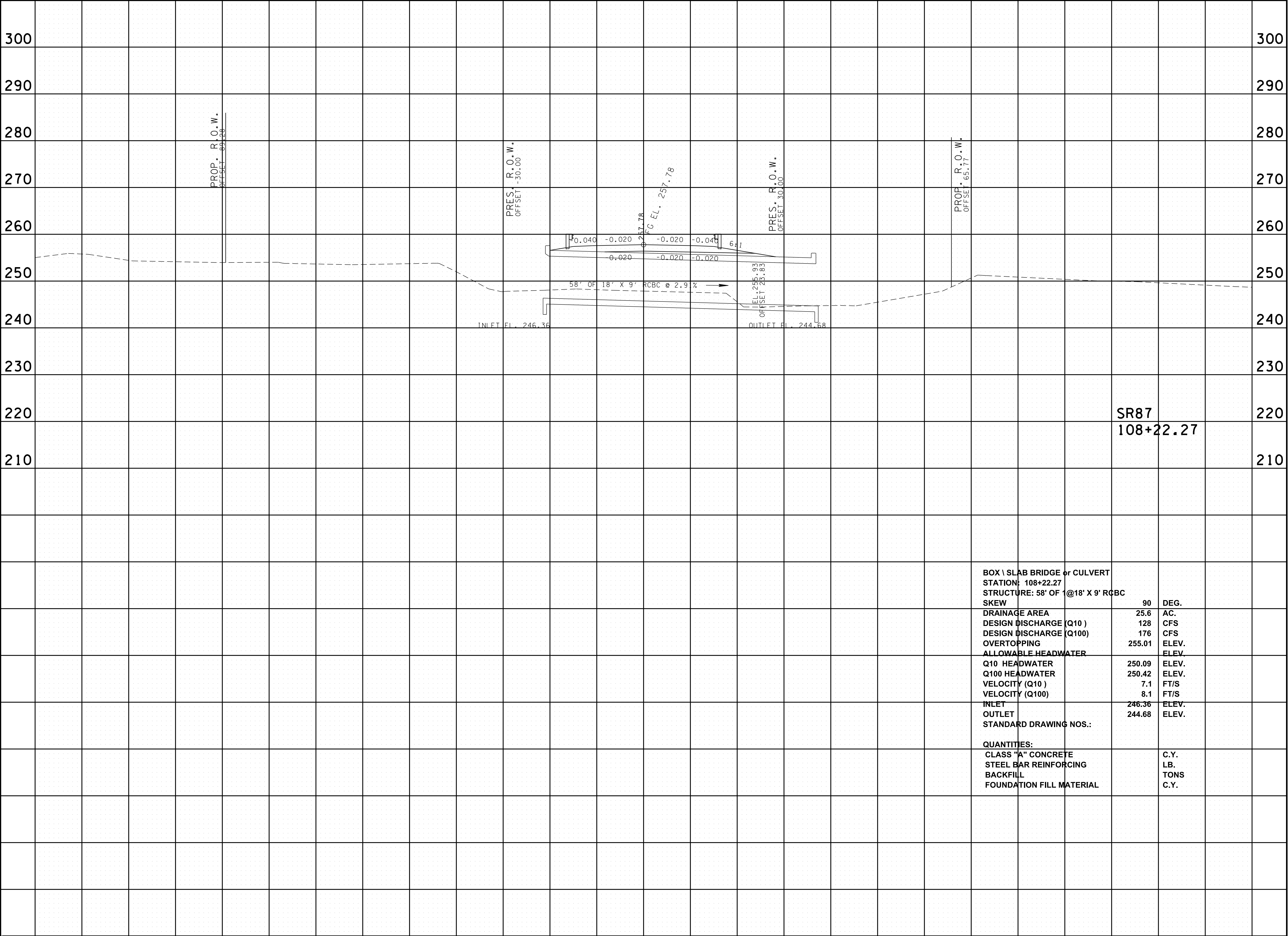
COORDINATES ARE NAD 83(1995), ARE
DATUM ADJUSTED BY THE FACTOR
OF 1.00005 AND TIED TO THE TGRN.
ALL ELEVATIONS ARE REFERENCED
TO THE NAVD 1988 WITH GEOID 03.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE
MAP

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

1/22/2020 3:01:05 PM
c:\pwworking\least01\0926581\007.sht



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.

CAUTION !
PRELIMINARY
PLANS
SUBJECT TO
CHANGE

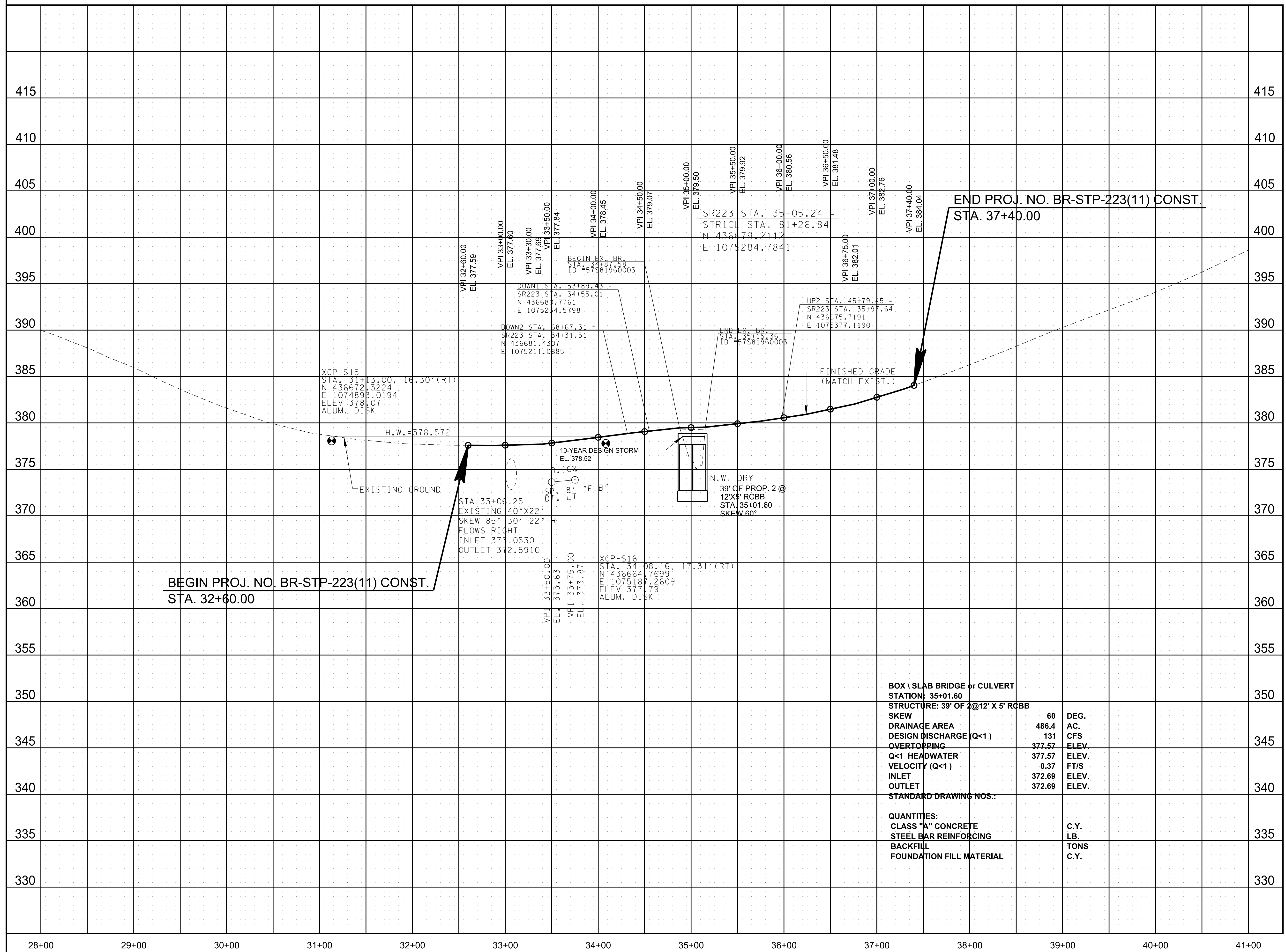
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT
SECTION

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.



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.

1/22/2020 3:01:17 PM
c:\pwworking\east01\d0926582\004C.sht

PROJECT NO.		YEAR	SHEET NO.
09035-0220-94		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 $A_s=0.352$, $S_{ds}=0.755$, $S_{d1}=0.327$, (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.

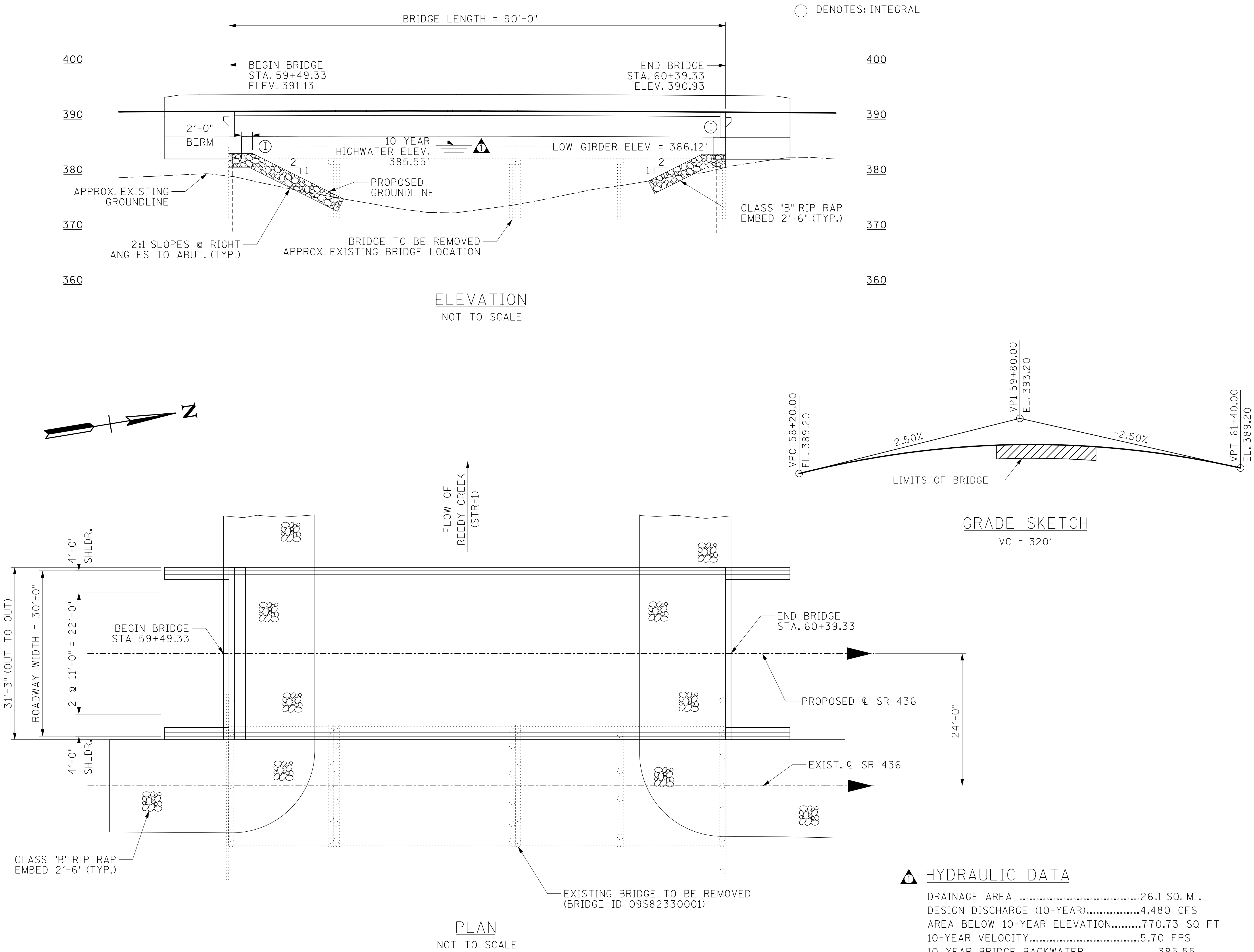
NOTE: ANY WORK WITHIN THE STREAM CHANNEL AREA SHALL BE SEPARATED FROM FLOWING WATER. DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS.

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

CARROLL COUNTY
2019

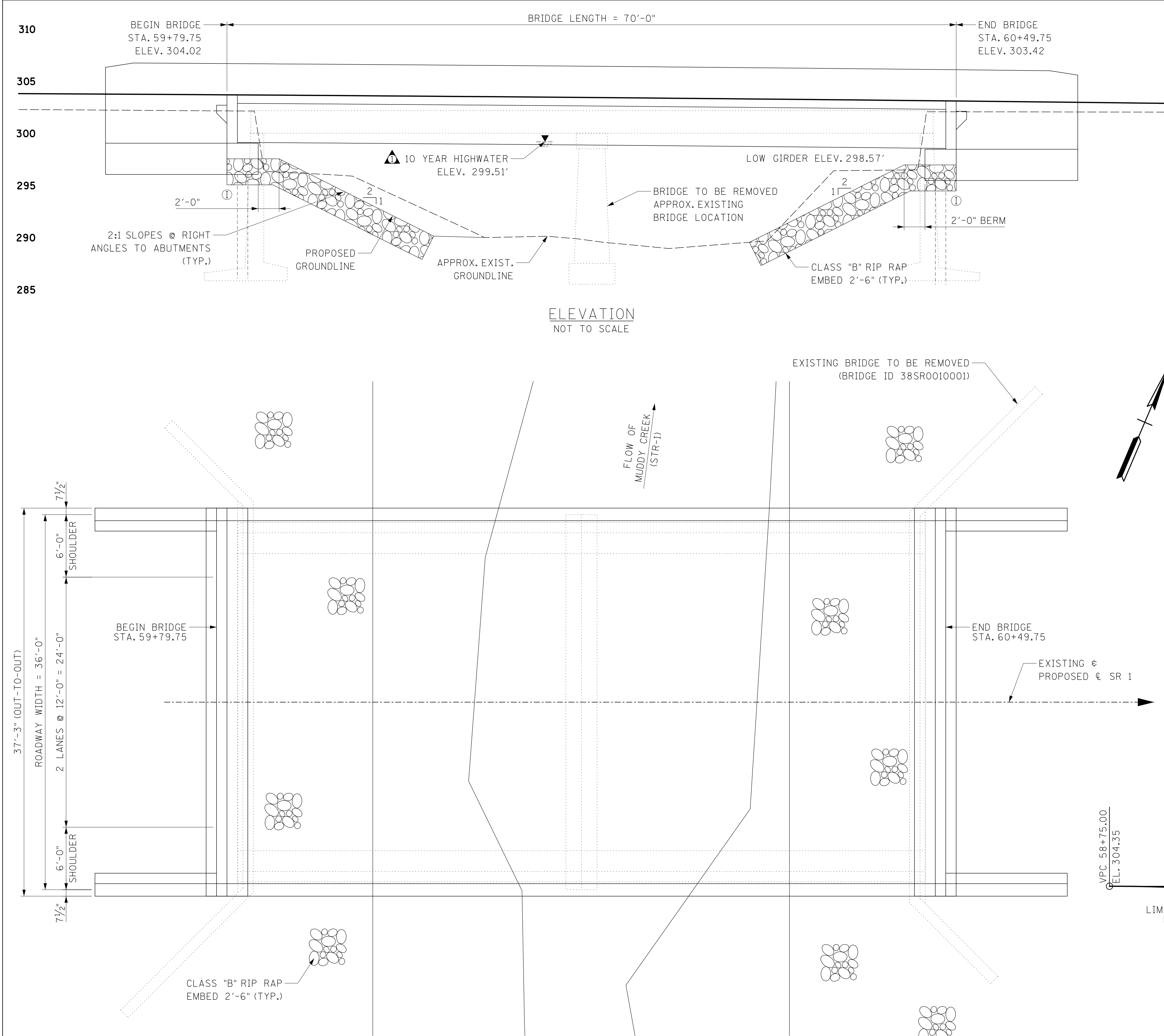


HYDRAULIC DATA

DRAINAGE AREA26.1 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

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





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

① DENOTES: INTEGRAL

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 $A_s=0.403$, $S_{ds}=0.846$, $S_{d1}=0.361$, (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-155 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-31 AND TEMPORARY DIVERSION CULVERTS.

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 1-155

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LAYOUT OF BRIDGE

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

HAYWOOD COUNTY
2019

GRADE SKETCH

VC = 250'