


FOR INDEX OF SHEETS SEE SHEET 1B

FHWA 534 DATA 31103

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 116203


COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
I-81 WIDENING MM 136.6 TO 141.8 DB PROJECT
RFP PLANS
ROANOKE COUNTY / CITY OF SALEM

STATE	FEDERAL AID		STATE		SHEET NO.
	PROJECT	ROUTE	PROJECT		
VA.	SEE TABULATION BELOW FOR SECTION NUMBERS	81	0081-080-946	SEE MAP BELOW FOR PROJECT NUMBERS AND LOCATIONS	1

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA			
INTERSTATE 81			
From:	0.237 MI. NORTH INT. RT. 641		
To:	0.349 MI. NORTH RT. 419		
FUNCTIONAL CLASSIFICATION	INTERSTATE-URBAN		
MIN. DESIGN SPEED	65 MPH		
ADT (2019)	67,023		
ADT (2043)	86,326		
DHV	7,856		
D (%) (design hour)	53%		
T (%) (design hour)	19.2%		
V (MPH)	65 MPH		
TC STD.	TC-5.11R		
GEOMETRIC STD.	GS-INT		

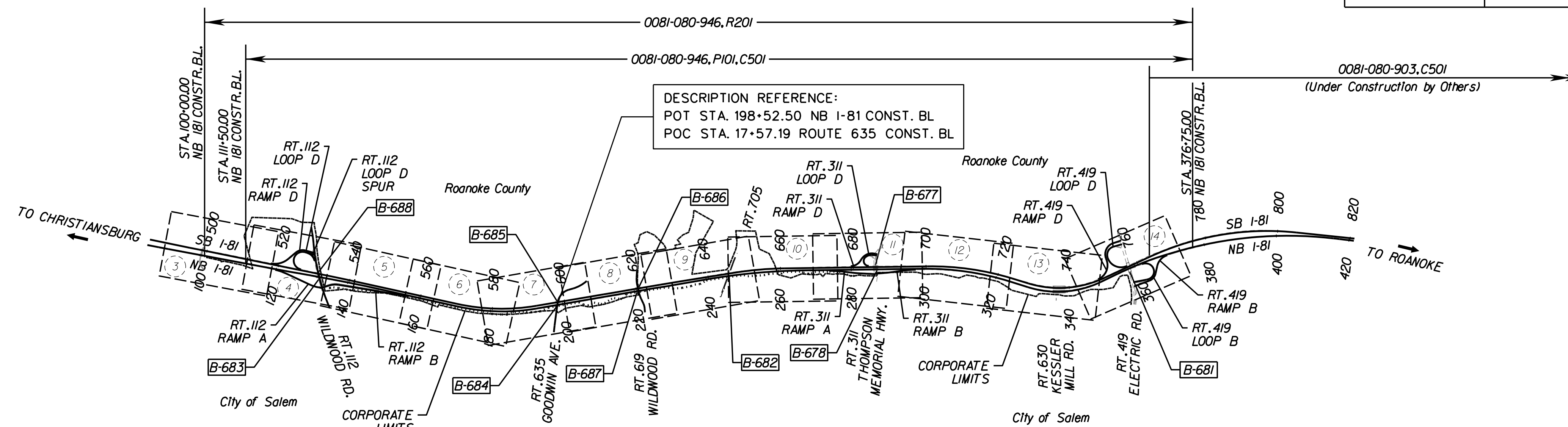
DESIGN EXCEPTIONS			
STA. TO STA.	DESIGN SPEED (MPH)	EXCEPTION FOR:	APPROVAL DATE
NB I-81 139+00 TO 151+00 349+50 TO 360+50 355+50 TO 359+50	65 MPH	SHOUDLER WIDTH	SEPTEMBER 25, 2020
SB I-81 538+00 TO 550+00 748+50 TO 760+00 756+50 TO 760+00			

PROJECT MANAGER: Craig Moore, P.E. (540) 525-2420 (Salem District)
 SURVEYED BY, DATE: HURT & PROFFITT, (540) 552-5592, August 31, 2020
 DESIGN BY: RS&H, Inc. (804) 422-5075
 SUBSURFACE UTILITY BY, DATE: JMI, (757) 499-1895, October XX, 2020

RFP PLANS
 For Information Only
 DATE: 10/22/20

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ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT-OF-WAY SHOWN ON THESE PLANS.



CONVENTIONAL SIGNS

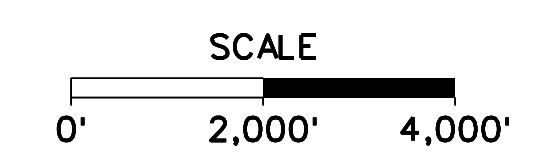
STATE LINE	---
COUNTY LINE	----
CITY, TOWN OR VILLAGE	-----
RIGHT OF WAY LINE	-----
FENCE LINE	-----
UNFENCED PROPERTY LINE	-----
FENCED PROPERTY LINE	-----
WATER LINE	-----
SANITARY SEWER LINE	-----
GAS LINE	-----
ELECTRIC UNDERGROUND CABLE	-----
TRAVELED WAY	-----
GUARD RAIL	-----
RETAINING WALL	-----
RAILROADS	-----
BASE OR SURVEY LINE	-----

LEVEE OR EMBANKMENT	-----
BRIDGES	-----
CULVERTS	-----
DROP INLET	-----
POWER POLES	-----
TELEPHONE OR TELEGRAPH POLES	-----
TELEPHONE OR TELEGRAPH LINES	-----
HEDGE	-----
TREES	-----
HEAVY WOODS	-----
GROUND ELEVATION	-----
GRADE ELEVATION	-----

ROANOKE COUNTY POPULATION 92,376 (2010 CENSUS) / CITY OF SALEM POPULATION 24,802 (2010 CENSUS)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES		LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION	Stations	
					FEET	MILES	FEET	MILES	BEGIN	END					
0081-080-946	P101	NHPP-0812(323)		116203			26525.00	5.024	25566.74	4.84		PRELIMINARY ENGINEERING	FR: 0.237 MI. NORTH INT. RT. 641 TO: 0.349 MI. NORTH RT. 419	111+50.00	376+75.00
	C501		1000	116203			26525.00	5.024				CONSTRUCTION	FR: 0.237 MI. NORTH INT. RT. 641 TO: 0.349 MI. NORTH RT. 419	111+50.00	376+75.00
	B677			X241	116203			144.00	0.027			BRIDGE	SB I-81 OVER ROUTE 311	685+39.51	686+83.51
	B678			X241	116203			144.00	0.027			BRIDGE	NB I-81 OVER ROUTE 311	285+94.72	287+38.72
	B681			X241	116203			73.68	0.014			BRIDGE	ROUTE 419 OVER I-81	357+96.10	358+69.78
	B682			X241	116203			33.25	0.006			BRIDGE	ROUTE 705 OVER I-81	245+95.98	246+29.23
	B683			X241	116203			135.42	0.026			BRIDGE	NB I-81 OVER ROUTE 112	131+28.41	132+63.83
	B684			X241	116203			85.75	0.016			BRIDGE	NB I-81 OVER ROUTE 635	198+09.71	198+95.46
	B685			X241	116203			85.75	0.016			BRIDGE	SB I-81 OVER ROUTE 635	597+67.53	598+53.28
	B686			X241	116203			65.59	0.012			BRIDGE	SB I-81 OVER ROUTE 619	620+13.92	620+79.51
	B687			X241	116203			65.58	0.012			BRIDGE	NB I-81 OVER ROUTE 619	220+84.89	221+50.47
	B688			X241	116203			135.42	0.026			BRIDGE	SB I-81 OVER ROUTE 112	530+50.80	531+86.22

PROJECT LENGTHS ARE BASED ON NB I-81 CONSTRUCTION BASELINE



Copyright 2020, Commonwealth of Virginia

PROJECT NO.	0081-080-946	SHEET NO.	1
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PROJECT MANAGER *Craig Moore, P.E., VDOT, Salem District, (540) 525-2420*
 SURVEYED BY, DATE *Hurt & Profit, (540) 552-5592, August 31, 2020*
 DESIGN BY *BS&H, Inc. (804) 422-5075*
 SUBSURFACE UTILITY BY, DATE *JMT, (757) 499-1895, October XX, 2020*

LOCATION MAP

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	81		0081-080-946, C-501	1A

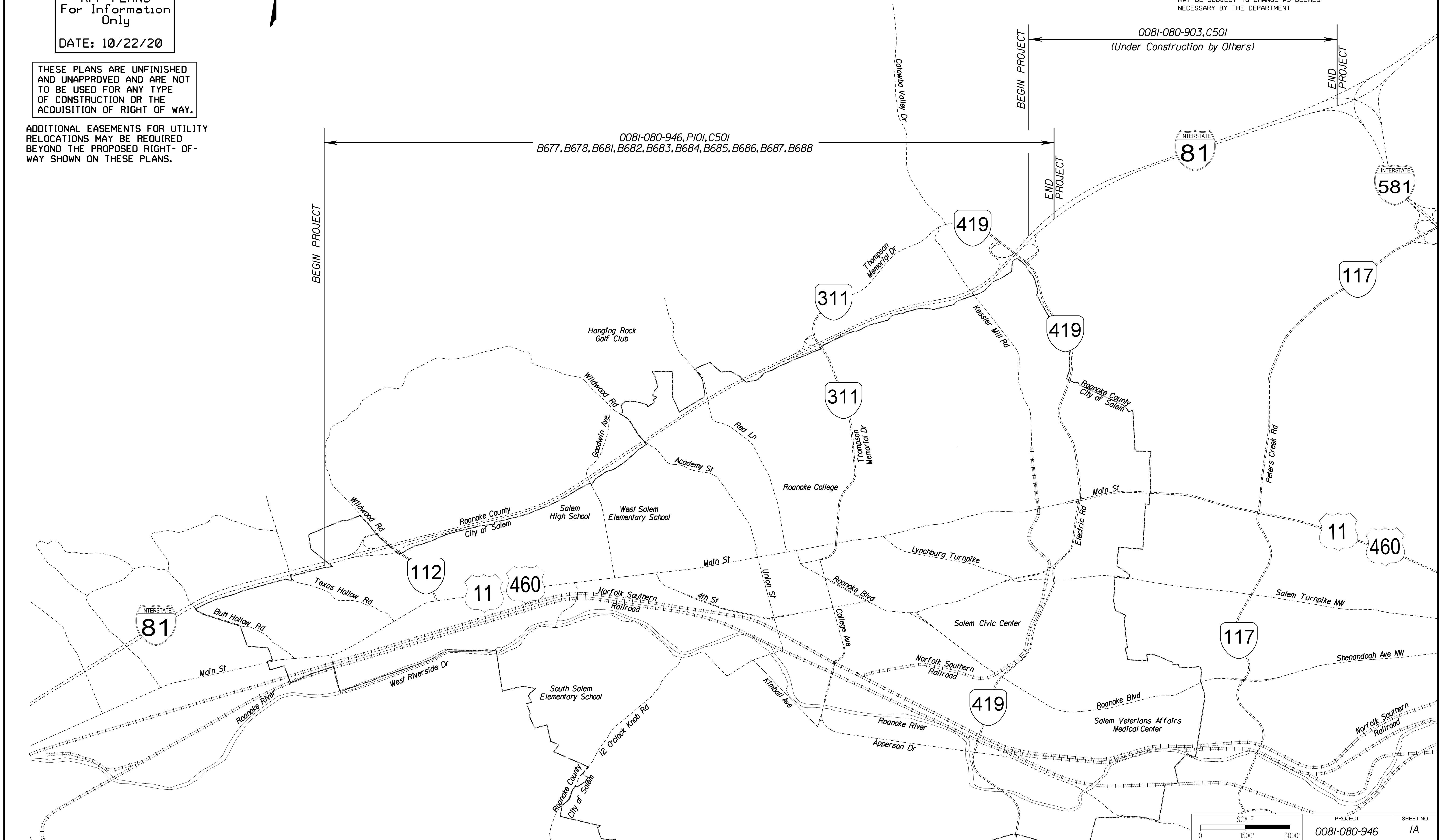
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

**RFP PLANS
For Information
Only**

DATE: 10/22/20

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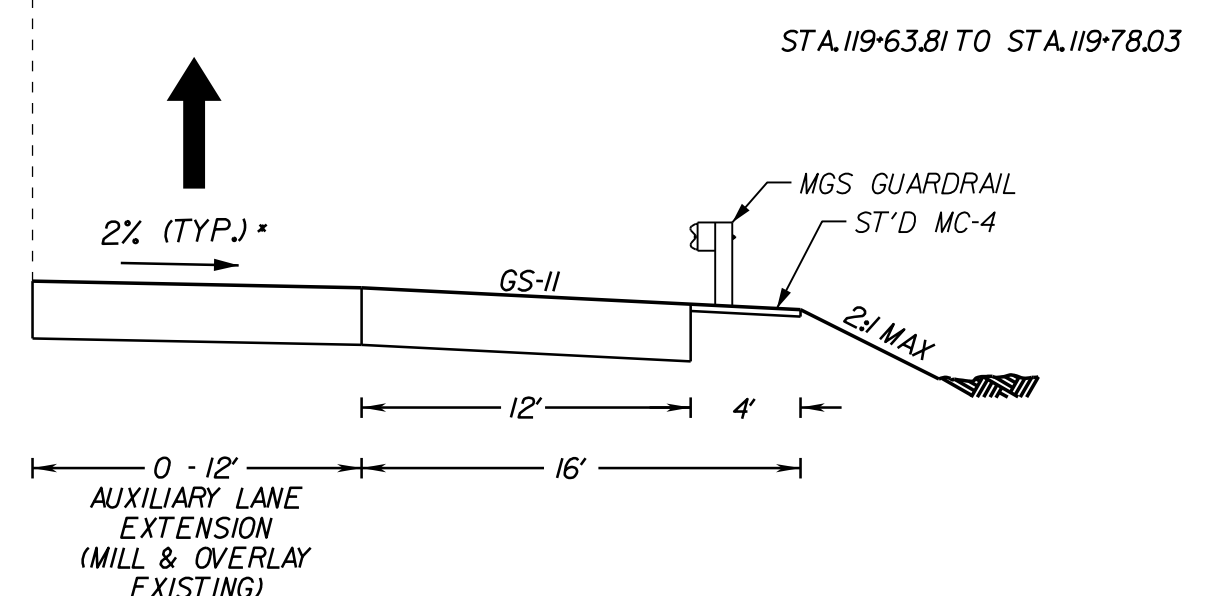
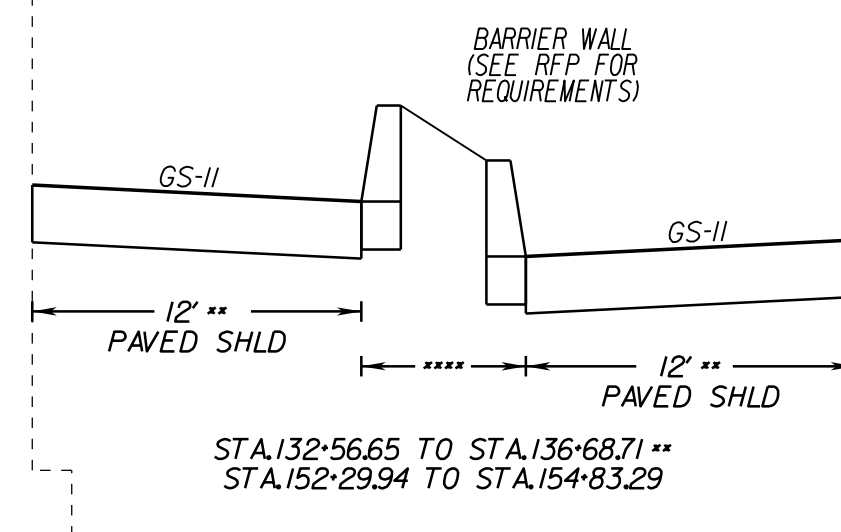
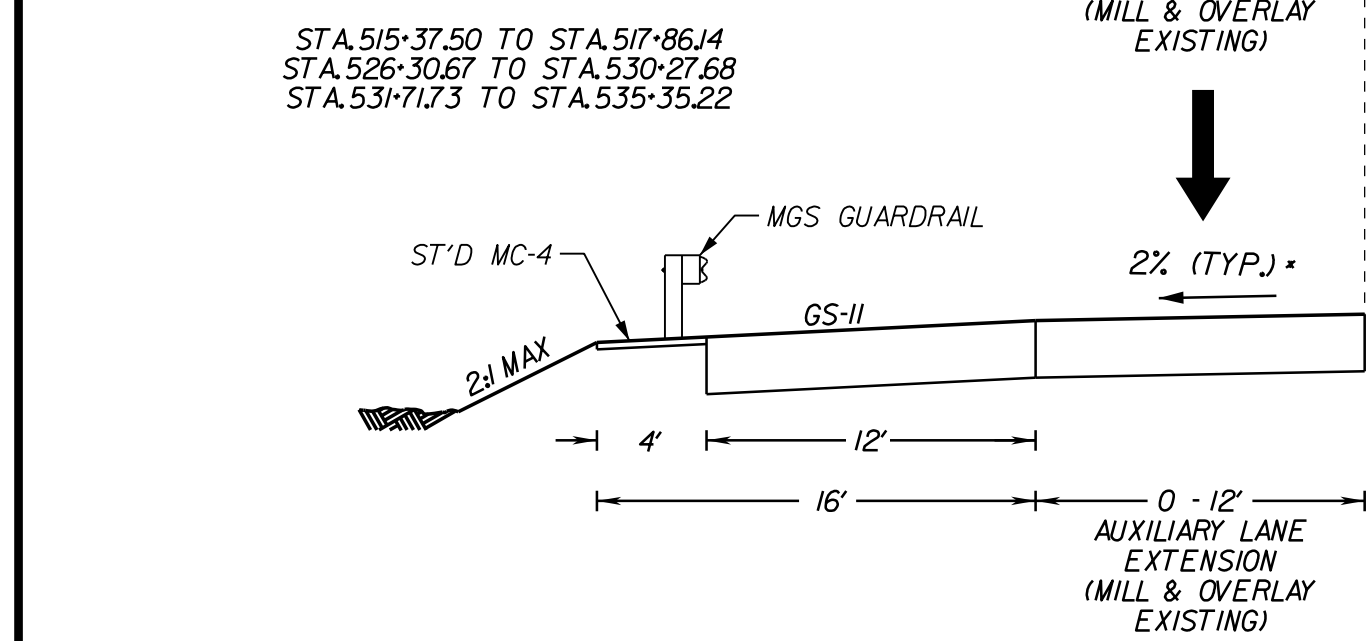
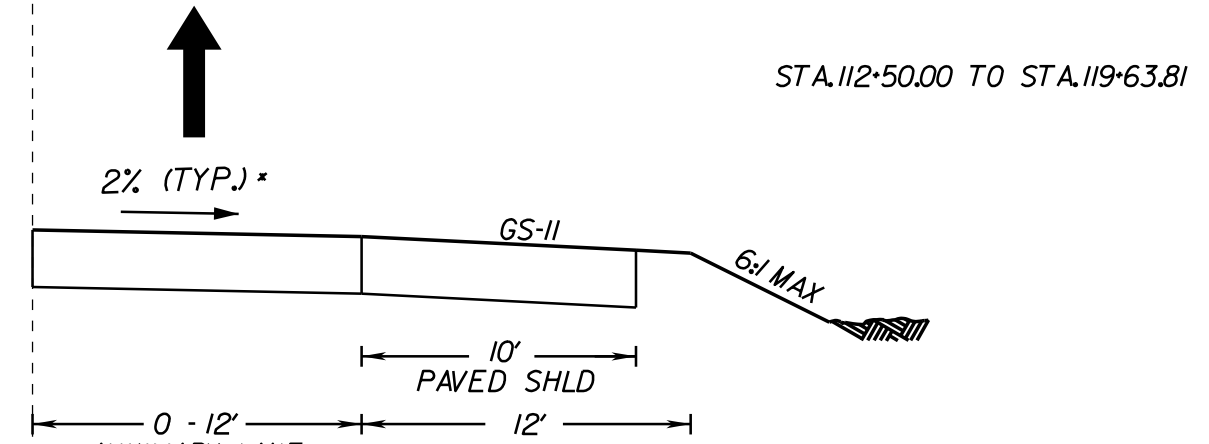
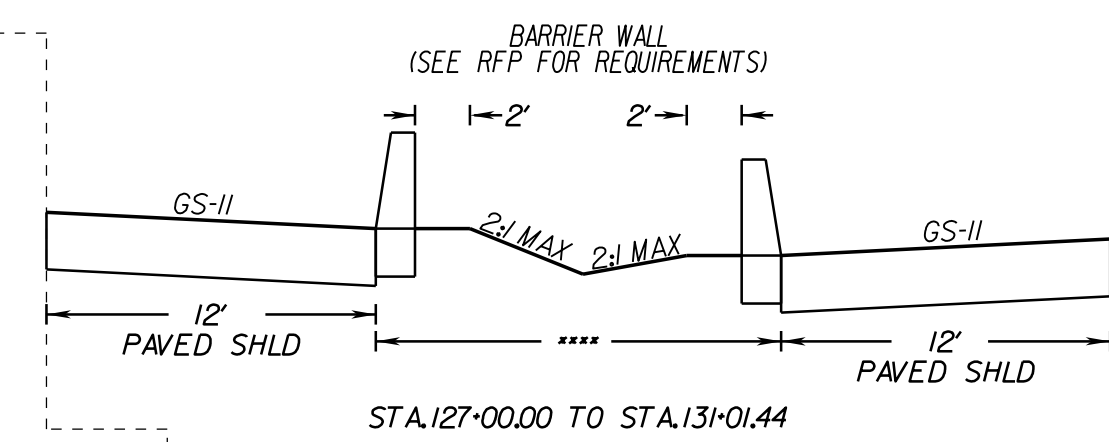
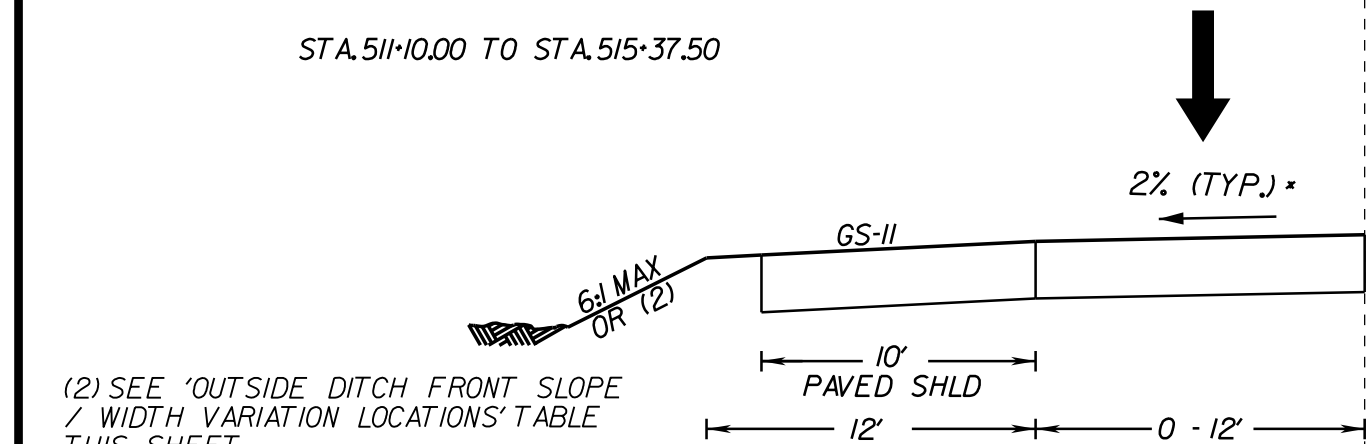
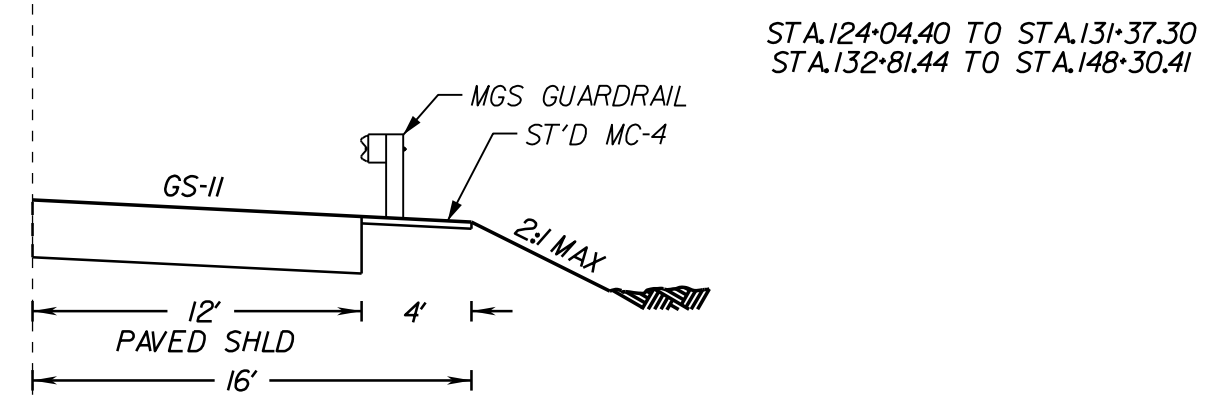
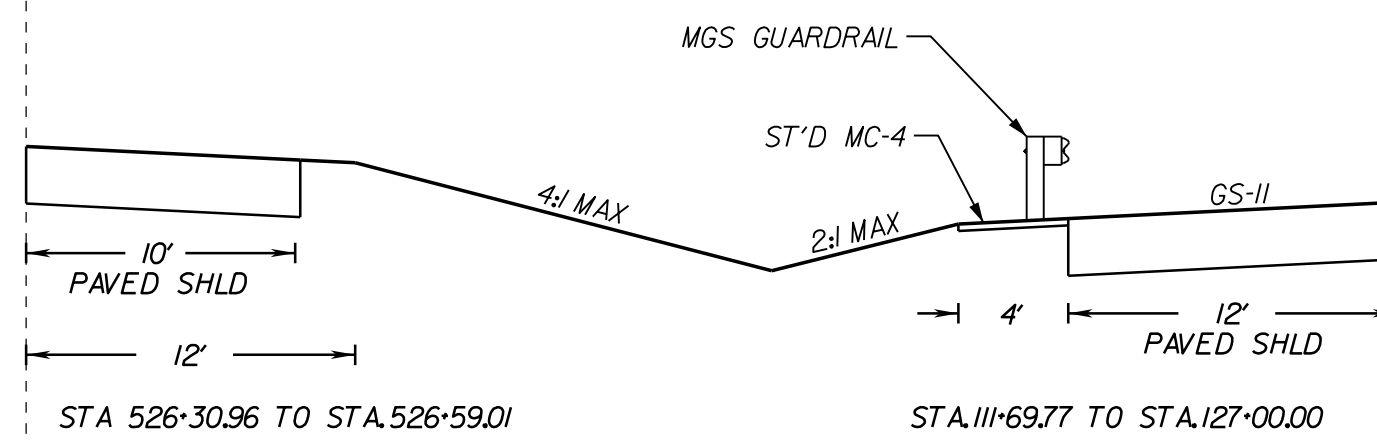
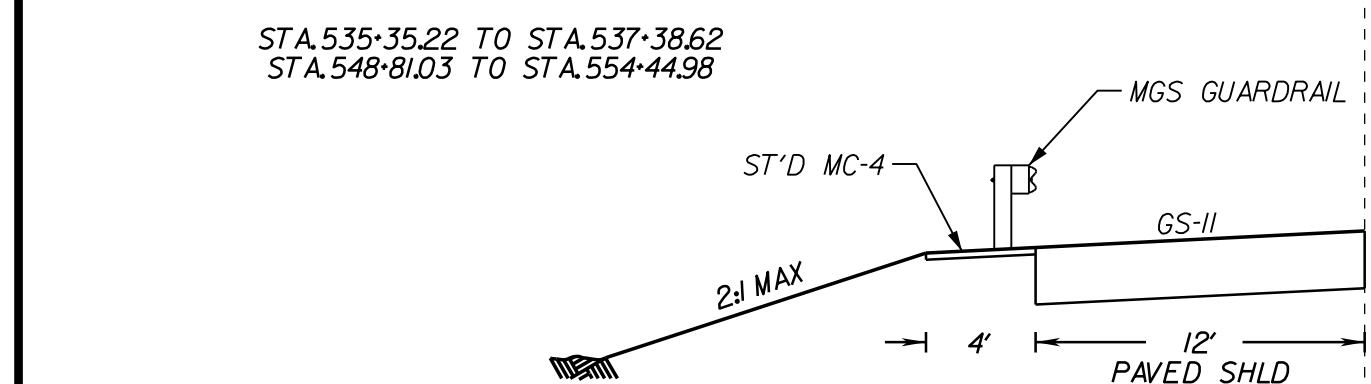
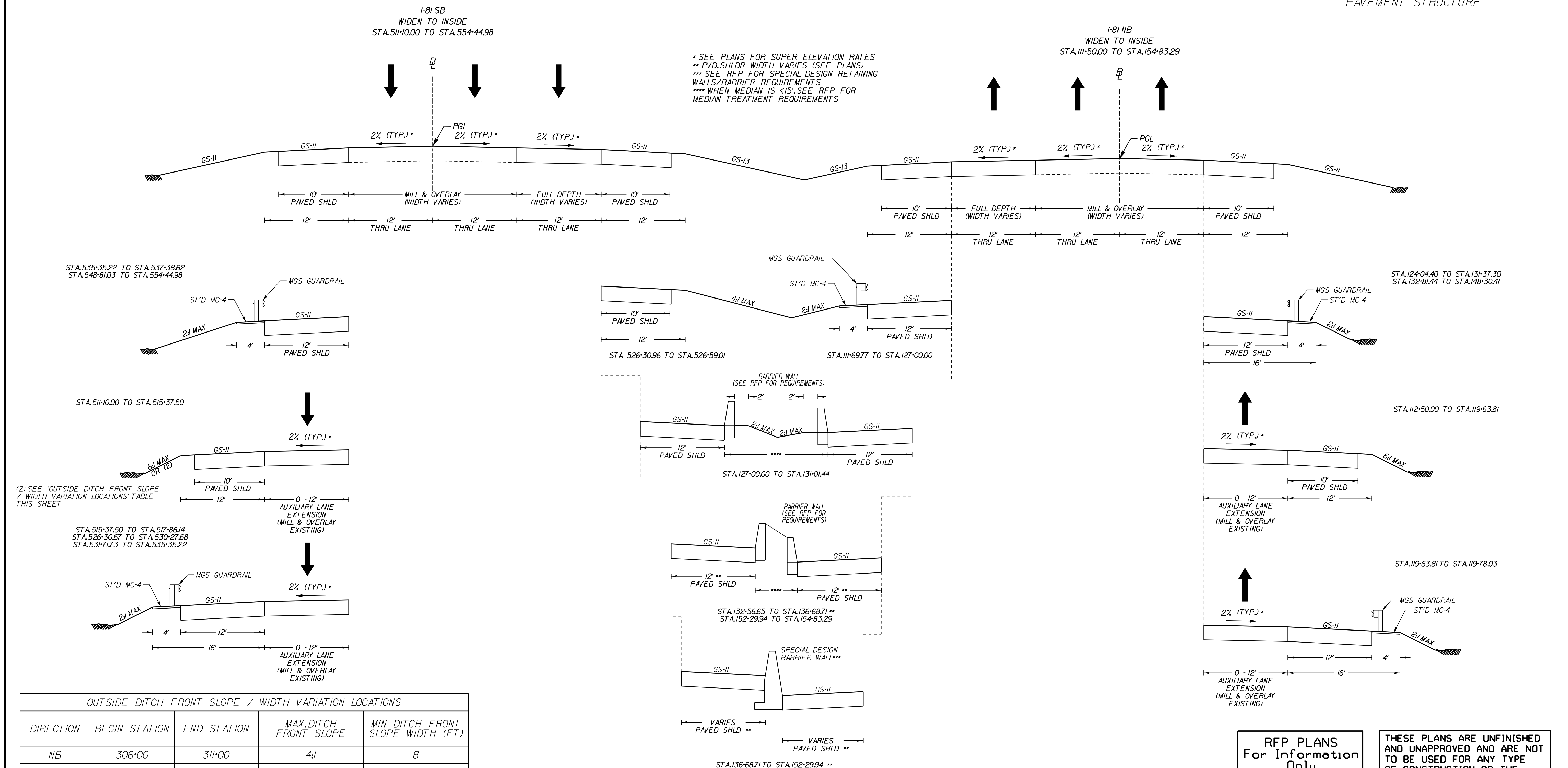
PROJECT MANAGER *Craig Moore, P.E., VDOT, Salem District, (540) 525-2420*
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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	81		0081-080-946.C-501	2A(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

NOTE: SEE RFP FOR PROPOSED PAVEMENT STRUCTURE

TYPICAL SECTIONS



OUTSIDE DITCH FRONT SLOPE / WIDTH VARIATION LOCATIONS				
DIRECTION	BEGIN STATION	END STATION	MAX. DITCH FRONT SLOPE	MIN DITCH FRONT SLOPE WIDTH (FT)
NB	306+00	311+00	4:1	8
(1) NB	346+50	354+00	4:1	8
NB	359+00		5:1	11
NB	374+00	376+50	4:1	8
SB	511+00	513+50	5:1	10
SB	546+00	548+50	5:1	10
SB	730+00	732+50	4:1	8

(1) MAINTAIN EXISTING OUTSIDE PAVED SHOULDER WIDTH AT THIS LOCATION. IF ABLE TO TIE TO THE EXISTING DITCH FRONT SLOPE WITH A 4:1 MAX. FRONT SLOPE, MINIMUM DITCH FRONT SLOPE WIDTH DOES NOT APPLY GIVEN ADEQUATE HYDRAULIC CAPACITY IS PROVIDED. IF ADEQUATE HYDRAULIC CAPACITY IS NOT AVAILABLE, PROVIDE USING THE DITCH FRONT SLOPE AND WIDTH VALUES IN TABLE.

RFP PLANS
 For Information
 Only
 ADDENDUM #3
 DATE: 1/26/21

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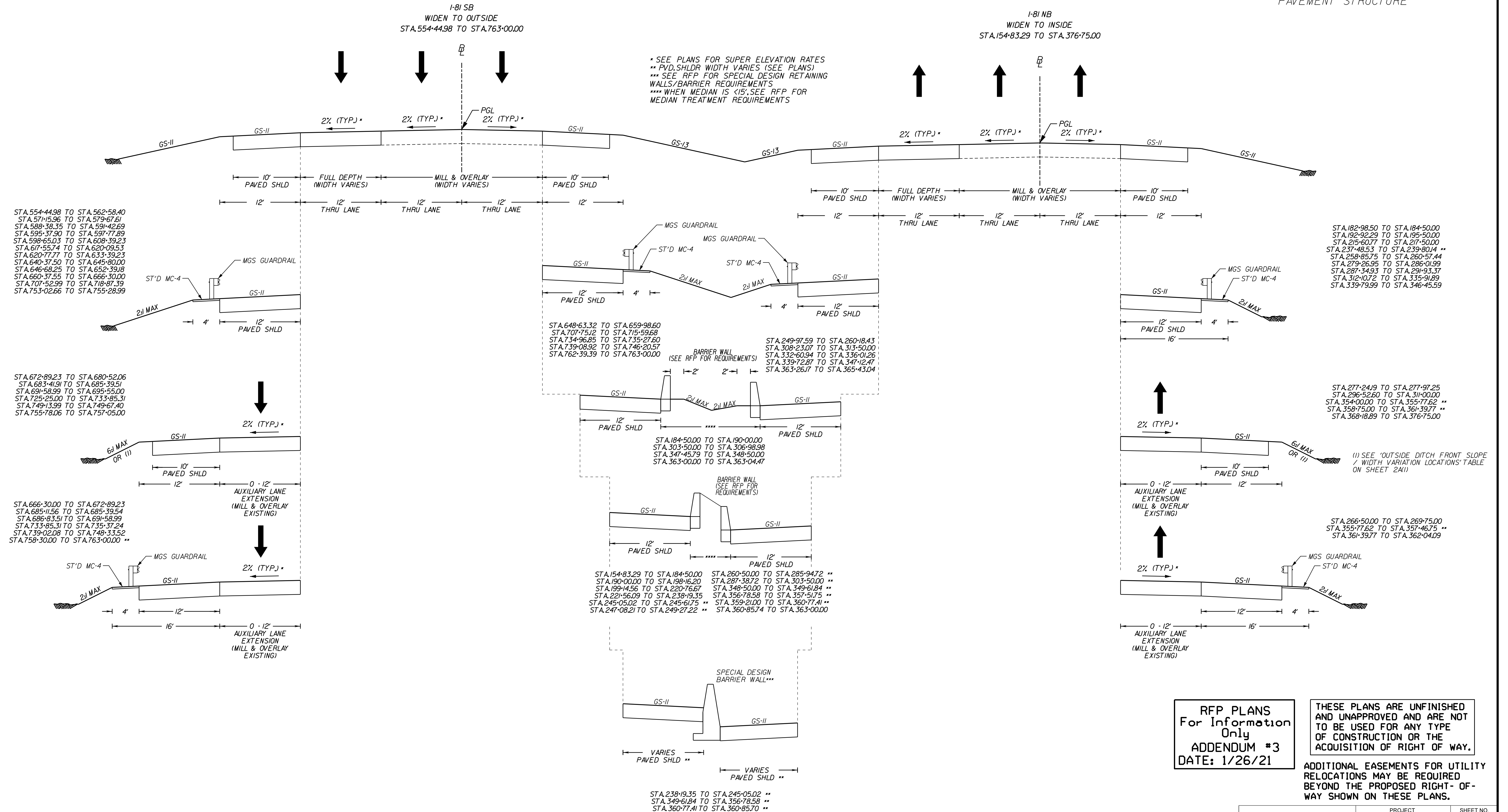
PROJECT MANAGER *Craig_Moore_P.E., VDOT, Salem, District (540) 525-2420*
 SURVEYED BY, DATE *Hurt & Profitt (540) 552-5592, August 31, 2020*
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REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	81		0081-080-946.C-501	2A(2)

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TYPICAL SECTIONS



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NOT TO SCALE	PROJECT 0081-080-946	SHEET NO. 2A(2)
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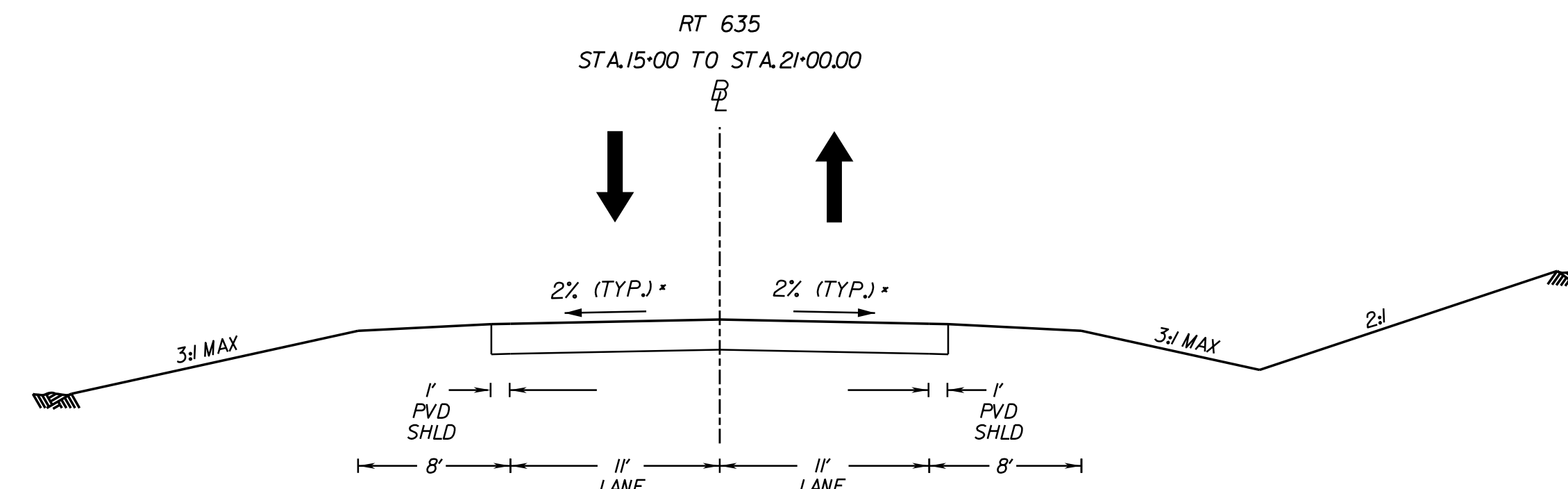
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	VA.	81	0081-080-946.C-501	2A(3)

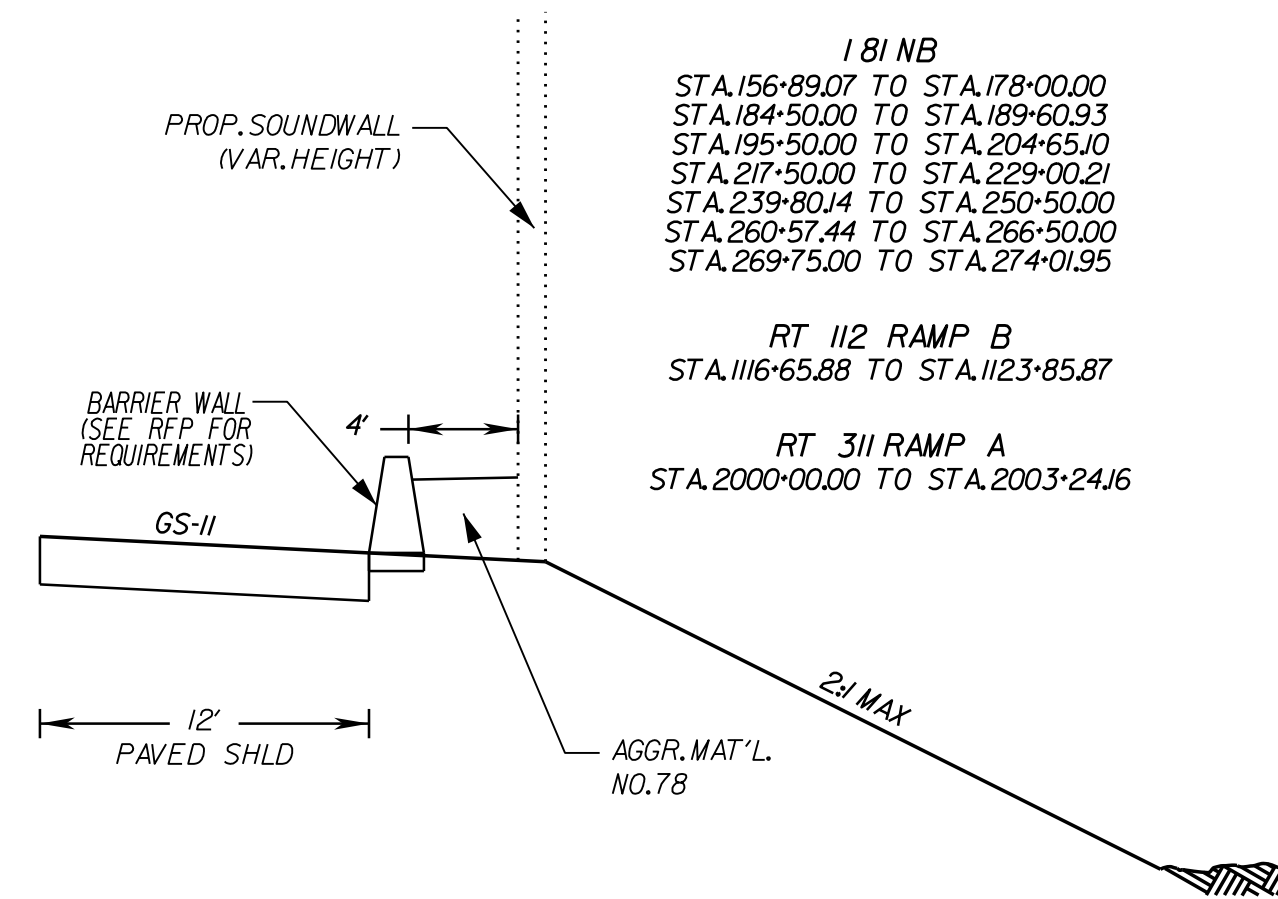
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TYPICAL SECTIONS

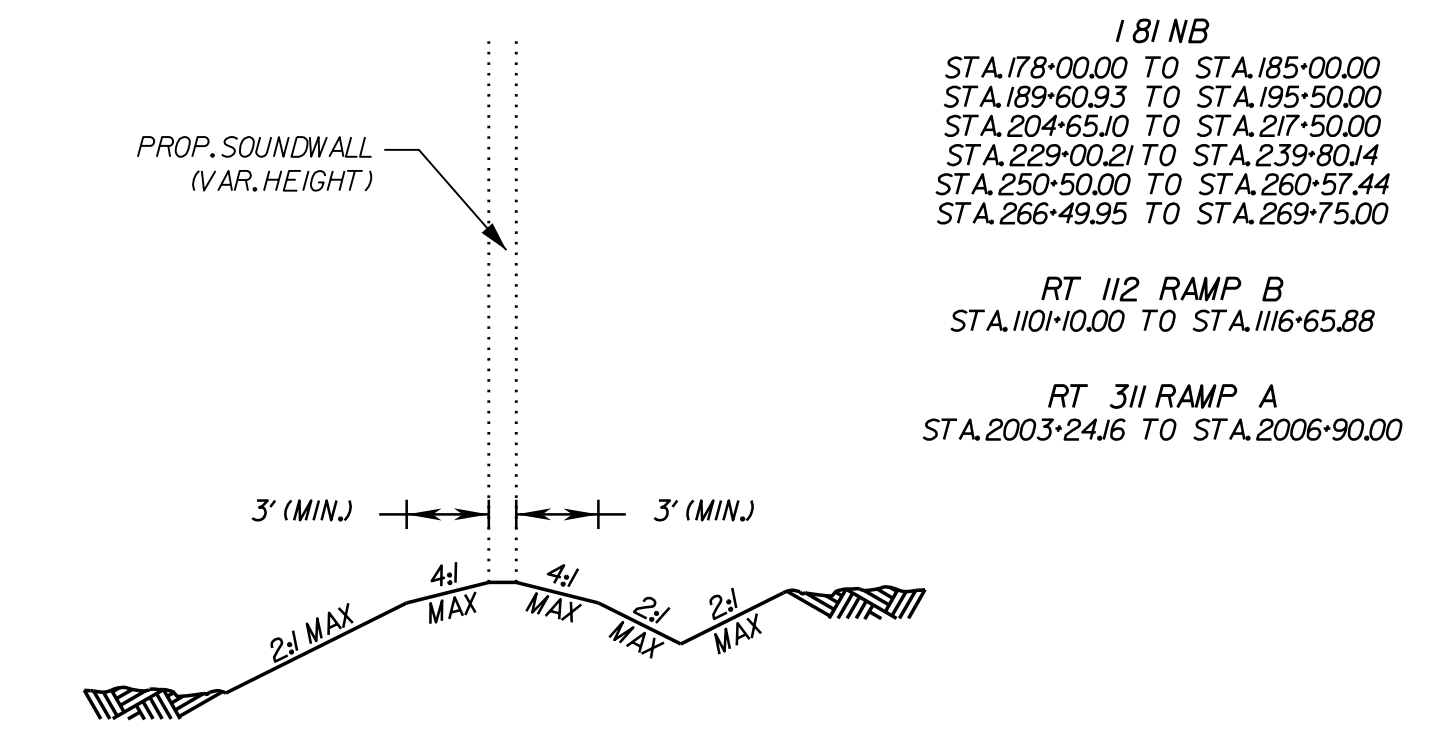
NOTE: SEE RFP FOR PROPOSED PAVEMENT STRUCTURE



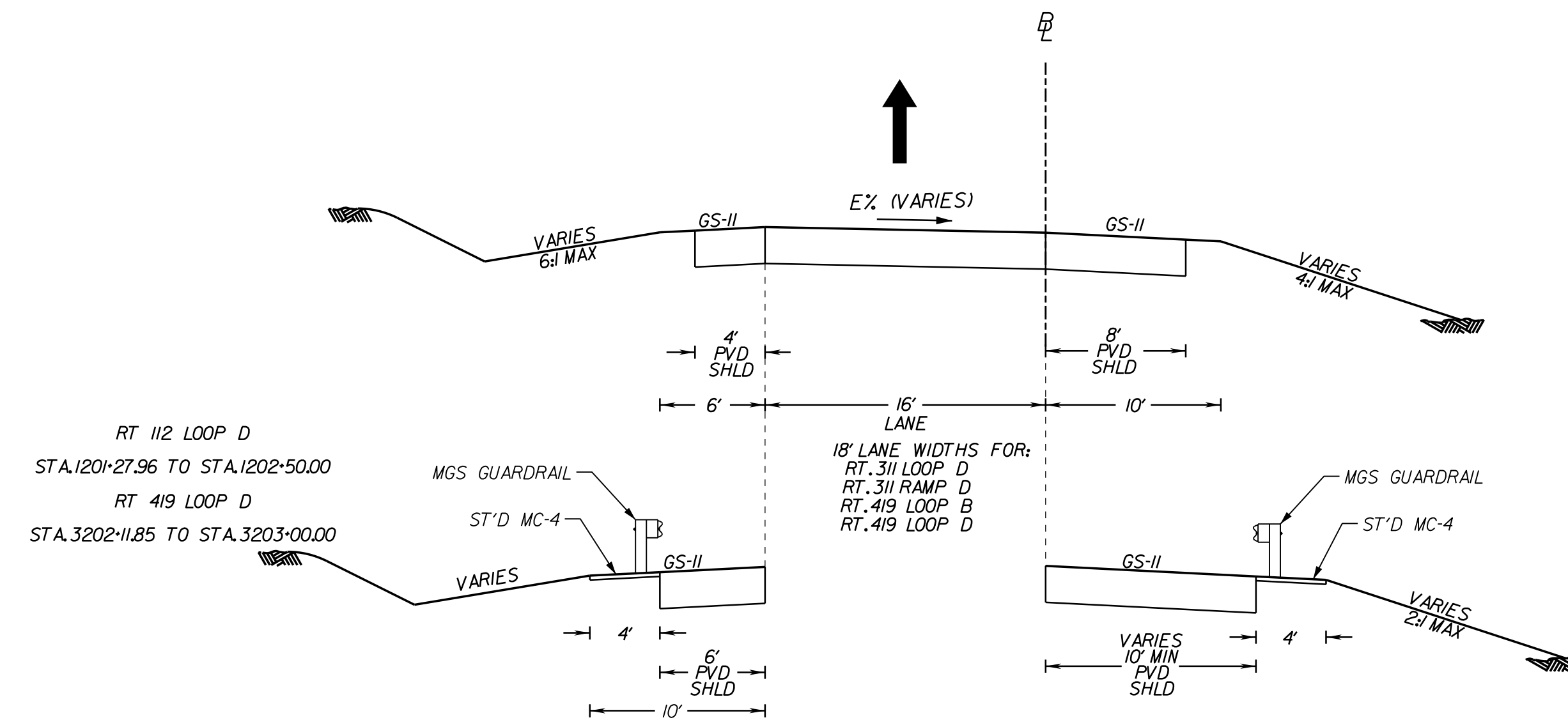
PROPOSED SOUNDWALL ADJACENT TO SHOULDER



PROPOSED SOUNDWALL NOT ADJACENT TO SHOULDER



- | | |
|---|---|
| RT 112 RAMP A
STA.1002+30.30 TO STA.1005+10.00 | RT 311 RAMP D
STA.2305+45.00 TO STA.2307+51.56 |
| RT 112 RAMP B
STA.1115+35 TO STA.1119+66.64 | RT 311 LOOP D
STA.2200+79.86 TO STA.2202+80.00 |
| RT 112 RAMP D
STA.1310+00.00 TO STA.1311+82.74 | RT 419 RAMP B
STA.3111+00.00 TO STA.3112+29.51 |
| RT 112 LOOP D
STA.1201+10.03 TO STA.1203+10.00 | RT 419 LOOP B
STA.3001+5.33 TO STA.3002+50.00 |
| RT 311 RAMP A
STA.2003+94.07 TO STA.2005+00.00 | RT 419 RAMP D
STA.3311+75.00 TO STA.3313+02.48 |
| RT 311 RAMP B
STA.2105+00.00 TO STA.2107+70.87 | RT 419 LOOP D
STA.3201+39.05 TO STA.3203+00.00 |



- | | |
|---|---|
| RT 112 RAMP A
STA.1000+00.00 TO STA.1005+00.00 | RT 419 LOOP B
STA.3000+00.00 TO STA.3002+50.00 |
| RT 112 RAMP B
STA.1115+35 TO STA.1116+65.88 | RT 419 RAMP D
STA.3313+49.33 TO STA.3314+31.25 |
| RT 112 RAMP D
STA.1310+60.20 TO STA.1313+23.66 | RT 419 LOOP D
STA.3201+35.57 TO STA.3203+00.00 |
| RT 112 LOOP D
STA.1200+00.00 TO STA.1203+10.00 | |

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LIMITED ACCESS HIGHWAY

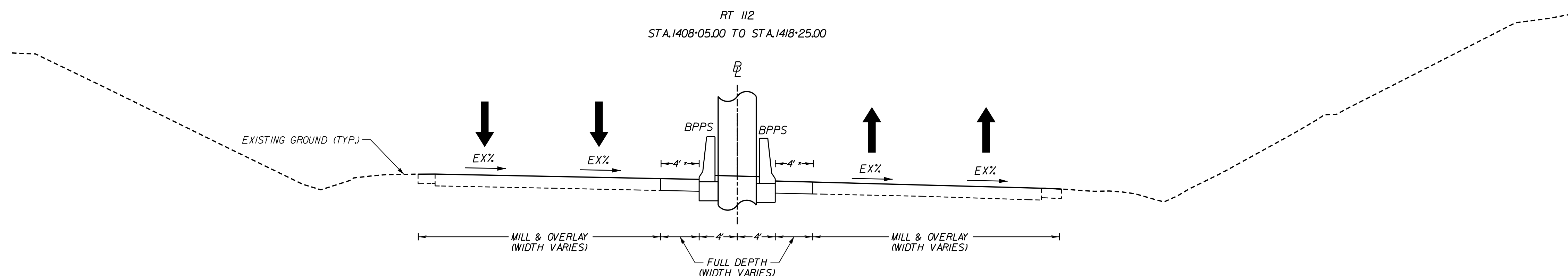
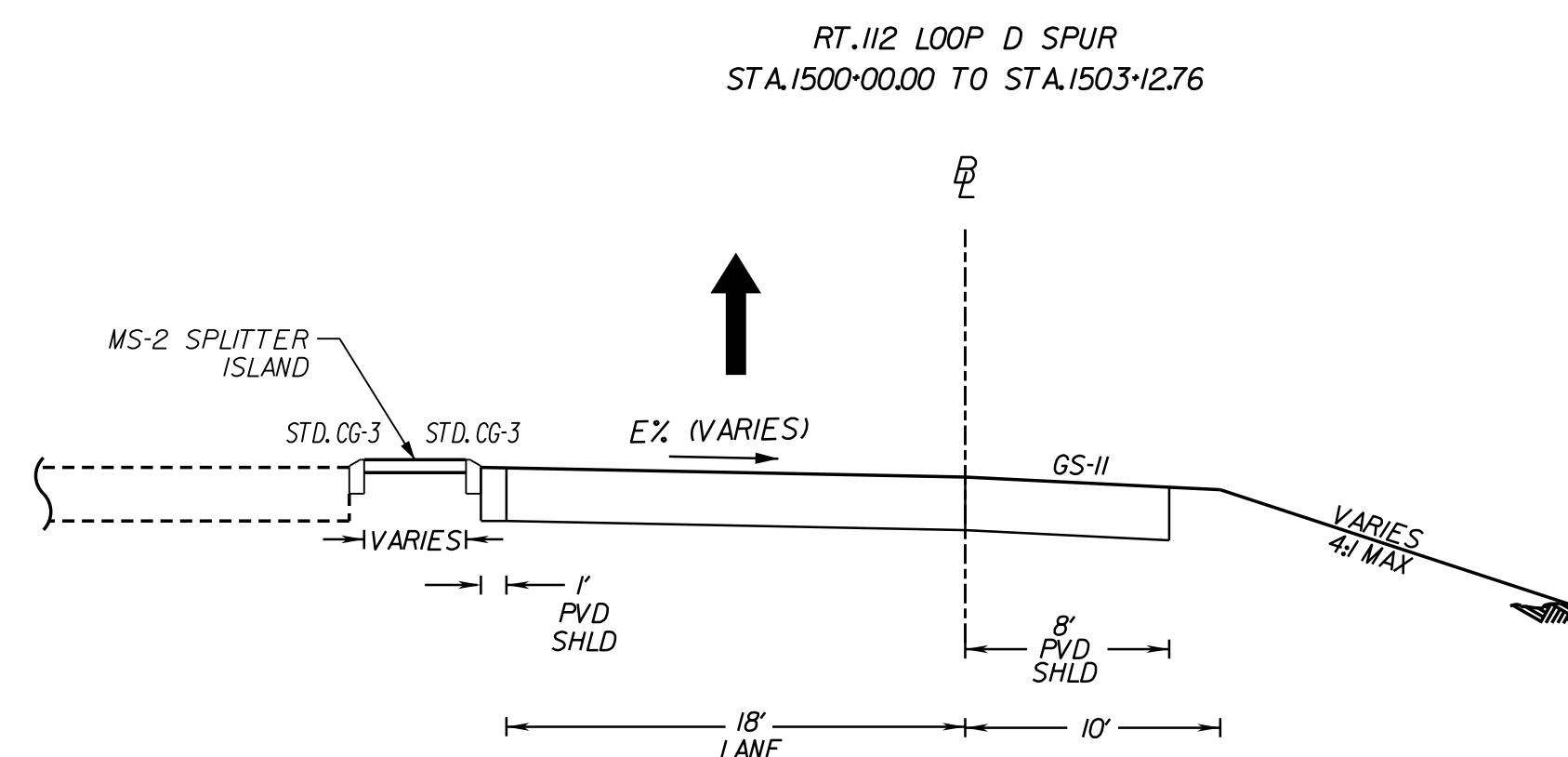
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SURVEYED BY, DATE *Hurt & Profitt, (540) 552-5592, August 31, 2020*
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-080-946, C-501	2A(4)

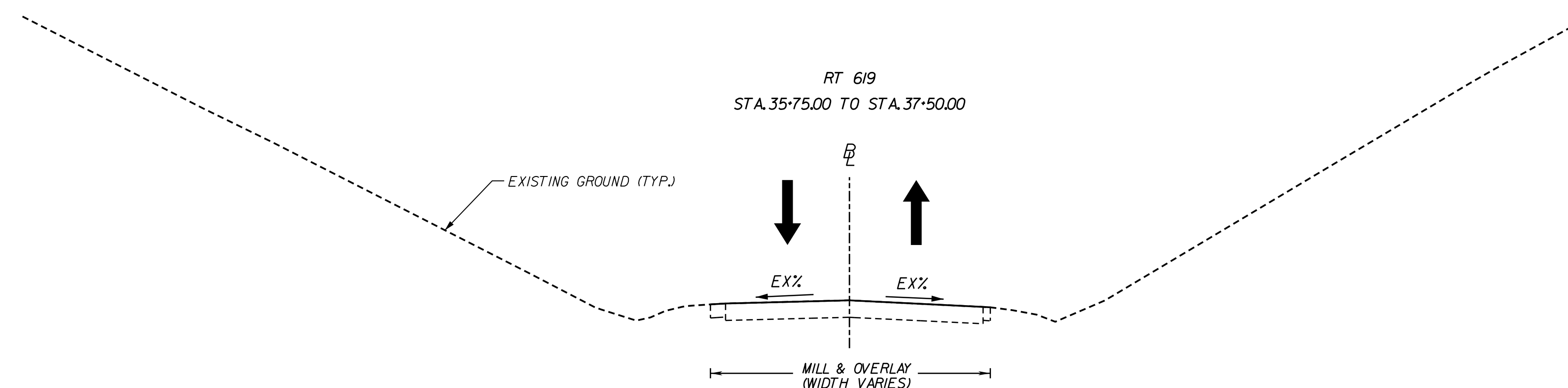
TYPICAL SECTIONS

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NOTE: SEE RFP FOR PROPOSED PAVEMENT STRUCTURE



* 4' MIN. FLUSH PAVED OFFSET BETWEEN INSIDE EDGE OF TRAVELWAY AND BPPS.



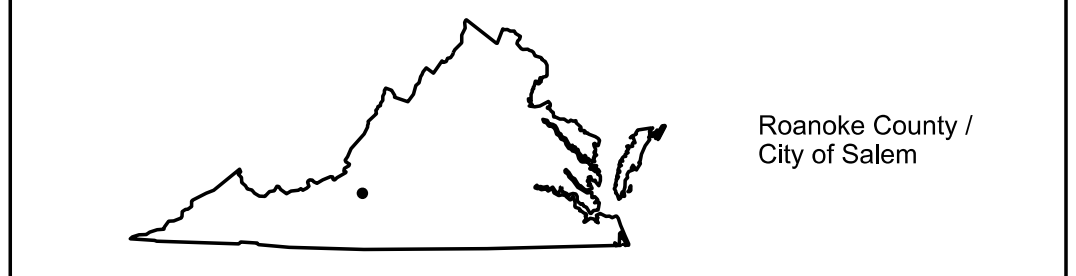
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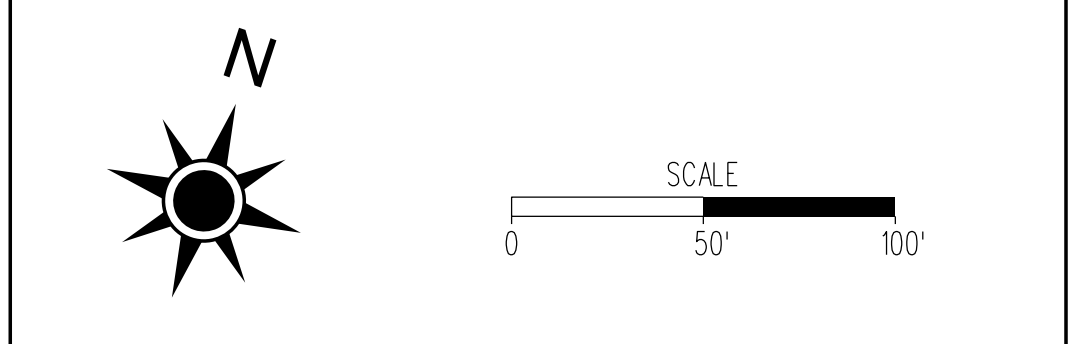
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NOT TO SCALE	PROJECT 0081-080-946	SHEET NO. 2A(4)
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Project Location



North Arrow & Scale



Legend

- Proposed Full Depth Pavement
- Proposed Planing and Resurfacing/Build-Up
- Demolition of Pavement
- Low Maintenance Median Treatment
- Proposed Limits of Construction - Cut
- Proposed Limits of Construction - Fill
- Potential Location of Stormwater Facility
- Existing Right of Way
- Existing Easements
- Proposed Right of Way
- Proposed Permanent Drainage Easement
- Proposed Temporary Construction Easement
- Property Line
- Proposed Concrete Median Barrier
- Proposed Curbing
- Proposed Guardrail
- Potential Noise Barrier Adjusted for Terrain/Topography
- Proposed Retaining Wall

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Utility Owners IF(2)
Construction Alignment Data (G11) - (G19)
Profile Rolls 3A

RFP PLANS
For Information Only
ADDENDUM #3
DATE: 1/26/21

Contact Information

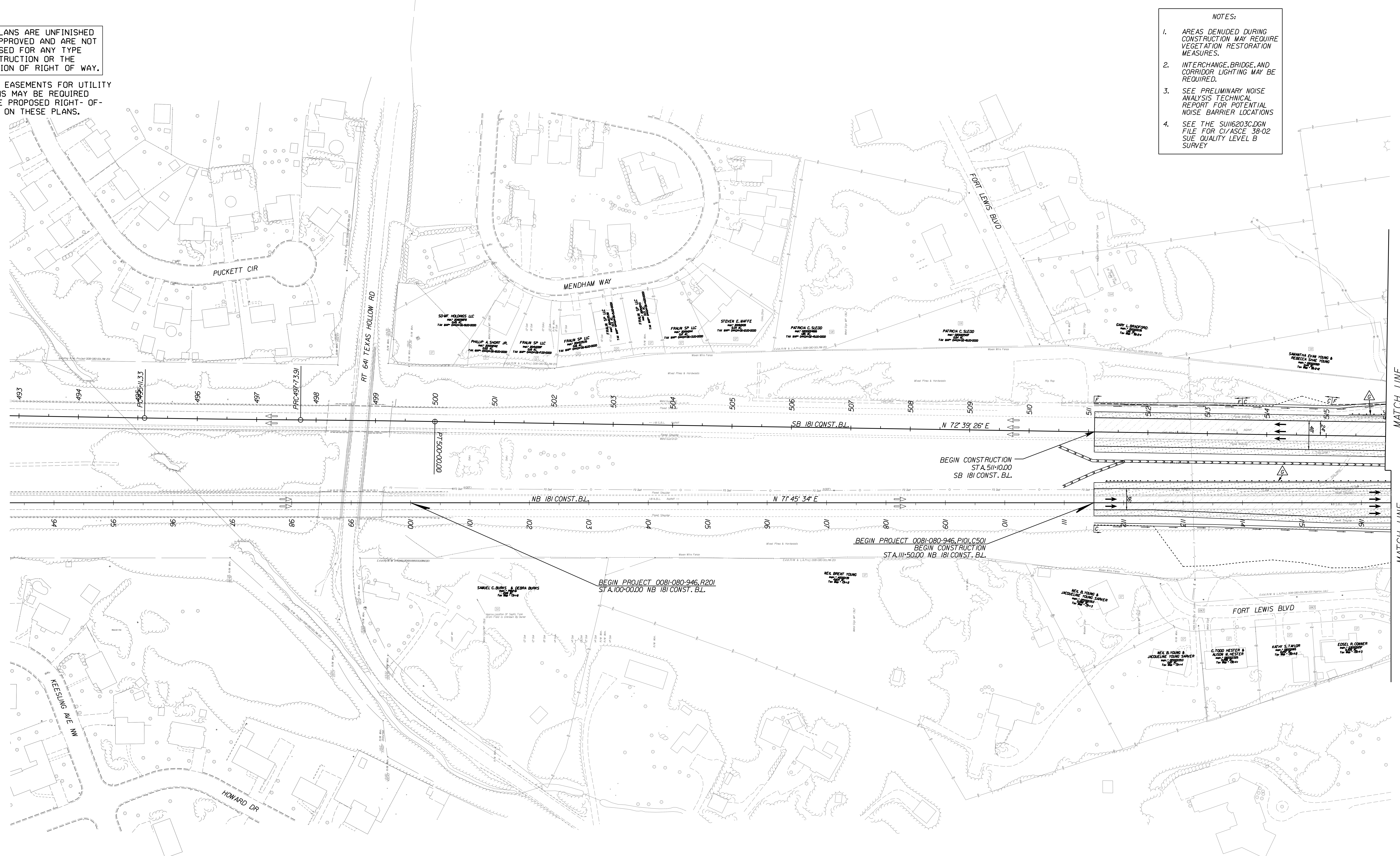
Craig Moore, PE
Project Manager / Assistant District L&D Engineer
Virginia Department of Transportation
731 Harrison Avenue
Salem, VA 24153

Comments may also be sent to:
I81-MM138-141@vdot.virginia.gov

I-81 Widening MM 136.6 to 141.8
Roanoke County / City of Salem, Virginia
0081-080-946, P101, R201, C501
UPC 116203
Federal Project Number

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- NOTES:**
1. AREAS DENUDED DURING CONSTRUCTION MAY REQUIRE VEGETATION RESTORATION MEASURES.
 2. INTERCHANGE, BRIDGE, AND CORRIDOR LIGHTING MAY BE REQUIRED.
 3. SEE PRELIMINARY NOISE ANALYSIS TECHNICAL REPORT FOR POTENTIAL NOISE BARRIER LOCATIONS
 4. SEE THE SUI16203.DGN FILE FOR CIV/ASCE 38-02 SUE QUALITY LEVEL B SURVEY

CURVE DATA

Curve T66
PI = 498.9625
DELTA A = 72° 54' 50" (RT)
D = 0.1128'
T = 132.02'
L = 226.09'
R = 303.0000'
PRC = 497.7351'
PT = 500.0000'
DS = 65 MPH

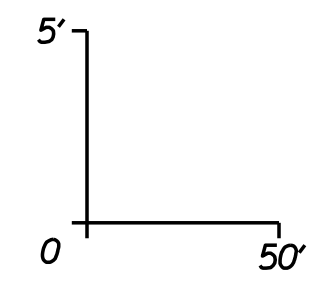
MATCH LINE
STA. 516+00
SB I-81 CONST. B.L.
SEE SHEET 4

MATCH LINE
STA. 116+50
NB I-81 CONST. B.L.
SEE SHEET 4

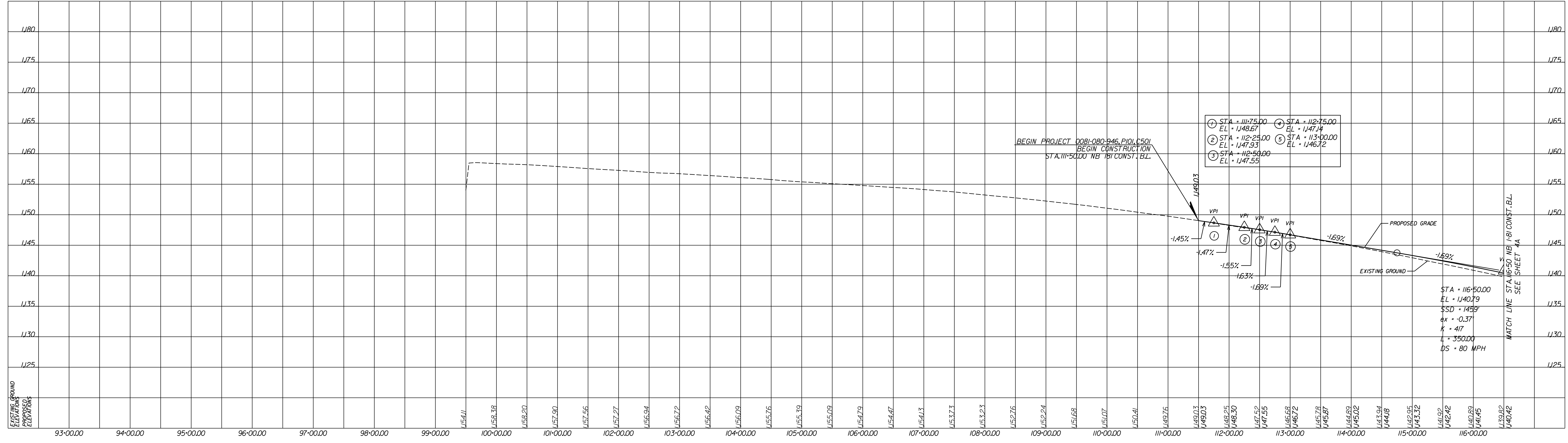
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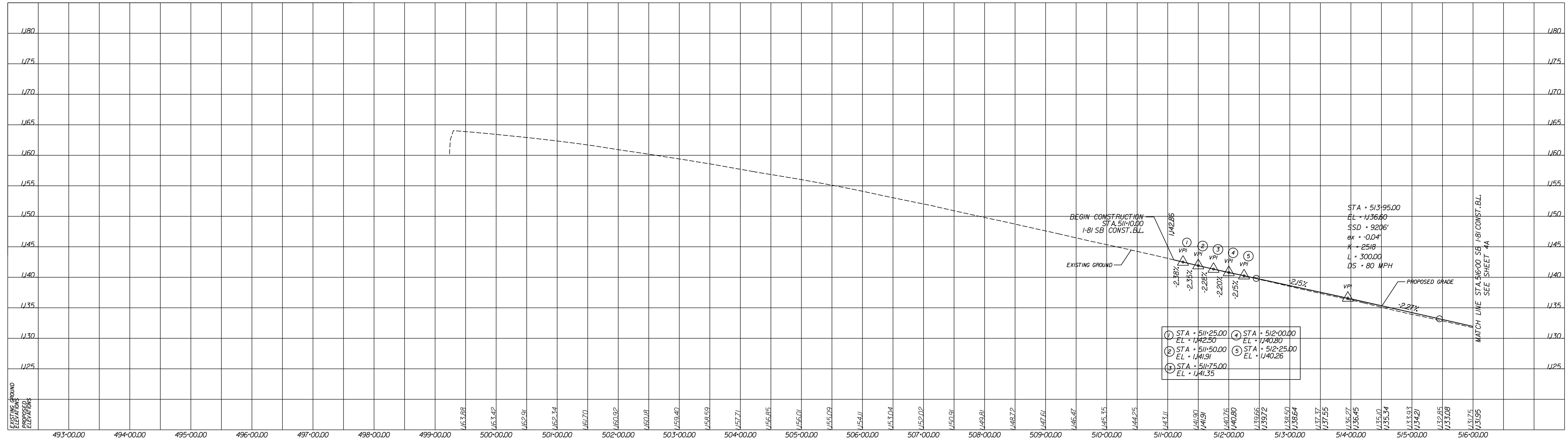
Scale



I-81 NORTHBOUND



I-81 SOUTHBOUND



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Project Manager / Assistant District L&D Engineer
Virginia Department of Transportation
731 Harrison Avenue
Salem, VA 24153

Comments may also be sent to:
I81-MM138-141@vdot.virginia.gov

I-81 Widening MM 136.6 to 141.8
Roanoke County / City of Salem, Virginia
0081-080-046, P101, R201, C501
UPC: 116203
Federal Project Number

Project Location

Roanoke County / City of Salem

North Arrow & Scale

Legend

- Proposed Full Depth Pavement
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- Demolition of Pavement
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REFERENCES (PROFILES, DETAILS & DRAINAGE DESCRIPTION SHEETS, ETC.)

Utility Owners IF(2)
 Construction Alignment Data IG(1) - IG(9)
 Profile Rolls 4A - 4B
 Structural Obstruction Zone 450Z

RFP PLANS For Information Only
 ADDENDUM #3
 DATE: 1/26/21

Contact Information

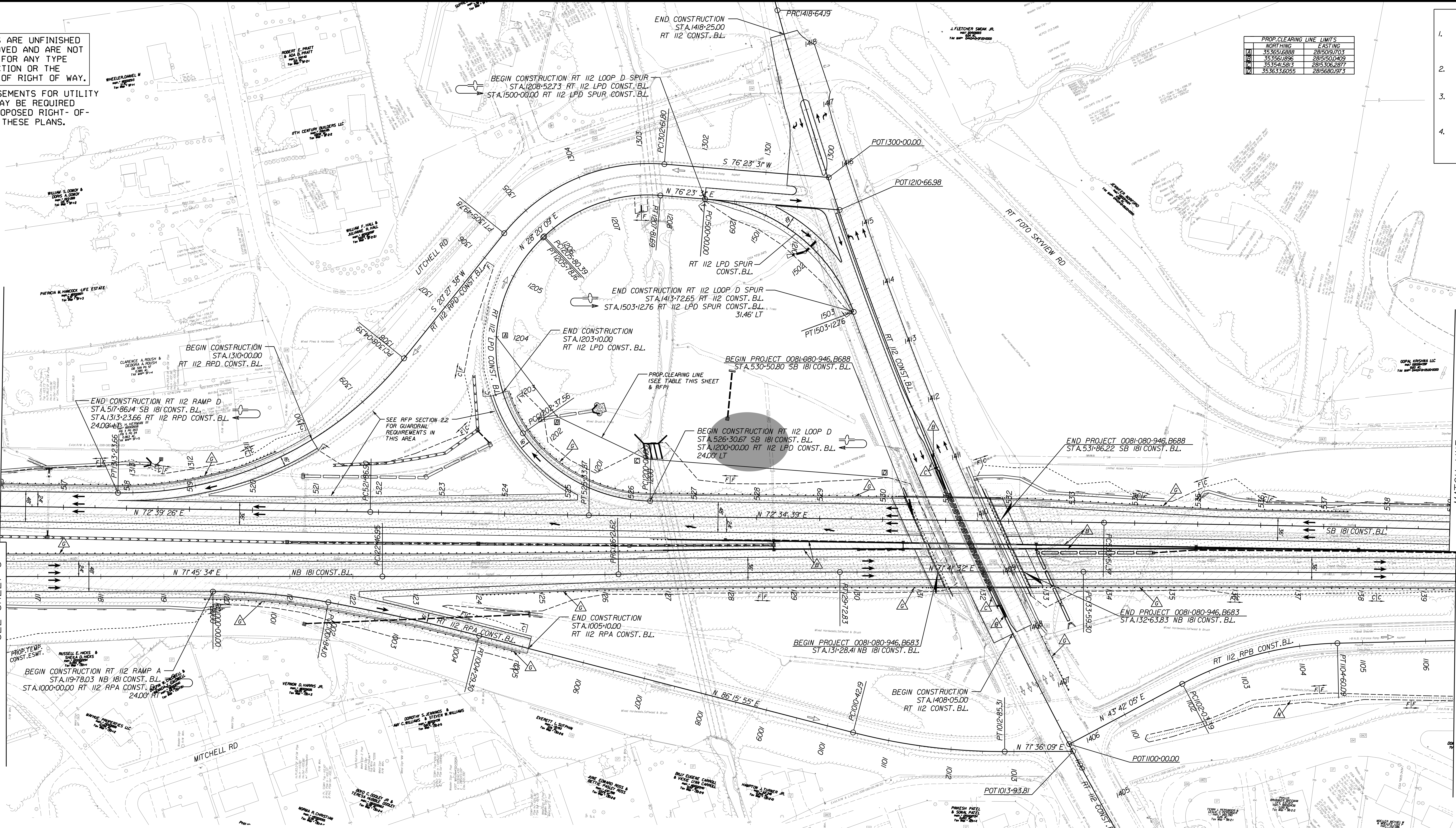
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I-81 Widening MM 136.6 to 141.8
 Roanoke County / City of Salem, Virginia
 0081-080-946, P101, R201, C501
 UPC 116203
 Federal Project Number

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PROP. CLEARING LINE LIMITS	NORTHING	EASTING
1	35.9542688	285.5047003
2	35.9561836	285.5044009
3	35.9541581	285.5062877
4	35.9533655	285.5061973

- NOTES:**
- AREAS DENUDED DURING CONSTRUCTION MAY REQUIRE VEGETATION RESTORATION MEASURES.
 - INTERCHANGE, BRIDGE, AND CORRIDOR LIGHTING MAY BE REQUIRED.
 - SEE PRELIMINARY NOISE ANALYSIS TECHNICAL REPORT FOR POTENTIAL NOISE BARRIER LOCATIONS.
 - SEE THE SUI6203CDGN FILE FOR CIVASCE 38-02 SUE QUALITY LEVEL B SURVEY

MATCH LINE
 STA. 116+50
 SB I-81 CONST. BL.
 SEE SHEET 3

MATCH LINE
 STA. 139+50
 SB I-81 CONST. BL.
 SEE SHEET 5

NB I81 CURVE DATA

Curve T62 PI = 124.3429 DELTA = 7°04'24.07" (LT) D = 0'17" 11" T = 107.54' L = 37.467' R = 20200.00' PC = 124.4639 PT = 126.2162 DS = 65 MPH E = NC	Curve T63 PI = 127.9723 DELTA = 7°04'22.13" (RT) D = 0'17" 11" T = 107.54' L = 37.467' R = 20200.00' PC = 128.0166 PT = 129.7283 DS = 65 MPH E = NC	Curve T64 PI = 140.2766 DELTA = 7°04'23.12" (RT) D = 0'17" 39" T = 768.36' L = 15.3657' R = 45000.00' PC = 133.9930 PT = 149.9587 DS = 65 MPH E = NC
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RT 112 RAMP A CURVE DATA

Curve T67 PI = 1009.9231 DELTA = 1°13'21.54" (RT) D = 5'43' 46" T = 128.65' L = 245.57' R = 35500.00' PC = 1009.0000 PT = 1004.2930 DS = 45 MPH E = 8.00%	Curve T68 PI = 1003.0675 DELTA = 1°13'21.54" (RT) D = 5'43' 46" T = 128.65' L = 245.57' R = 35500.00' PC = 1009.0000 PT = 1004.2930 DS = 45 MPH E = 8.00%	Curve T69 PI = 1014.4442 DELTA = 1°13'21.54" (LT) D = 5'43' 46" T = 128.65' L = 245.57' R = 35500.00' PC = 1009.0000 PT = 1004.2930 DS = 45 MPH E = 8.00%
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RT 112 LOOP D CURVE DATA

Curve C3 PI = 1201.2861 DELTA = 54°26' 40.24" (RT) D = 22' 55' 06" T = 128.65' L = 237.56' R = 25000.00' PC = 1200.0000 PT = 1202.3736 DS = 30 MPH E = 8.00%	Curve C4 PI = 1204.4369 DELTA = 48°03' 48.87" (RT) D = 23' 52' 24" T = 107.000' L = 340.61' R = 24000.00' PC = 1205.3756 PT = 1205.7816 DS = 30 MPH E = 8.00%	Curve C5 PI = 1206.8739 DELTA = 48°03' 22.32" (RT) D = 23' 52' 24" T = 107.000' L = 340.61' R = 24000.00' PC = 1205.8039 PT = 1207.8169
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SB I81 CURVE DATA

Curve T67 PI = 1009.9231 DELTA = 7°04' 46.27" (LT) D = 0'17" 23" T = 173.48' L = 346.96' R = 25000.000' PC = 520.8630 PT = 525.3387 DS = 65 MPH E = NC	Curve T68 PI = 537.1513 DELTA = 7°04' 58.03" (RT) D = 0'18" 53" T = 422.17' L = 844.3' R = 50000.000' PC = 533.5137 PT = 549.9568 DS = 65 MPH E = NC	Curve C1 PI = 1009.4939 DELTA = 26°44' 28.05" (RT) D = 10' 25' 03" T = 130.73' L = 256.70' R = 35500.00' PC = 1002.0339 PT = 1004.6009
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RT 112 RAMP B CURVE DATA

Curve RT1E101 PI = 1409.4939 DELTA = 18°37' 27.30" (RT) D = 14' 21' 20" T = 140.80' L = 186.49' R = 35500.00' PC = 1400.0000 PT = 1408.6419	Curve RT1E102 PI = 1420.0000 DELTA = 55°55' 52.52" (LT) D = 19' 25' 20" T = 156.63' L = 287.98' R = 25000.00' PC = 1302.6180 PT = 1305.4978
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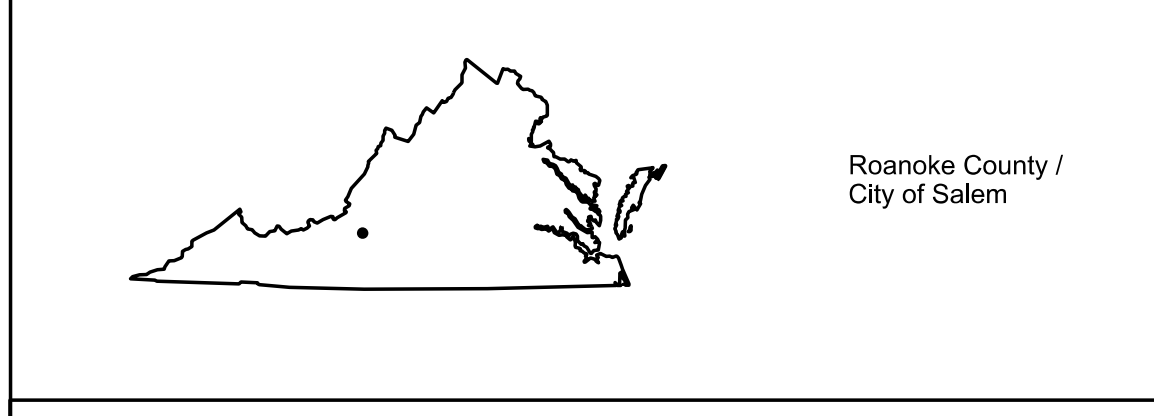
RT 112 CURVE DATA

Curve RT1E101 PI = 1409.4939 DELTA = 18°37' 27.30" (RT) D = 14' 21' 20" T = 140.80' L = 186.49' R = 35500.00' PC = 1400.0000 PT = 1408.6419	Curve RT1E102 PI = 1420.0000 DELTA = 55°55' 52.52" (LT) D = 19' 25' 20" T = 156.63' L = 287.98' R = 25000.00' PC = 1302.6180 PT = 1305.4978
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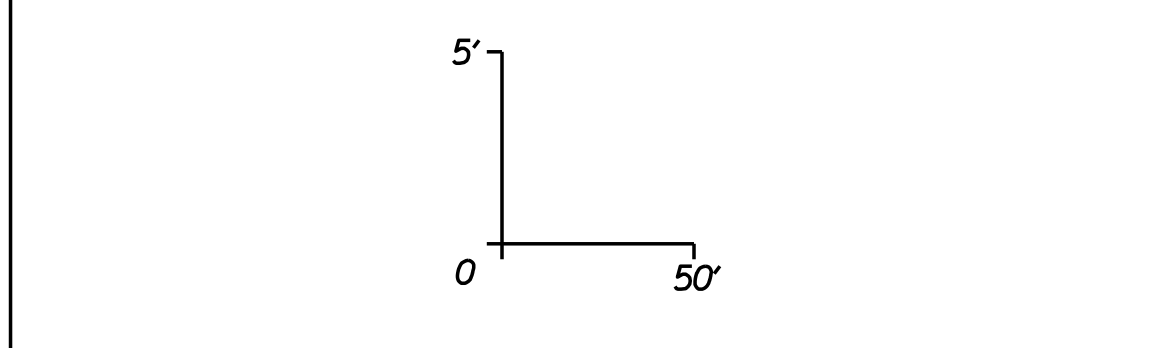
RT 112 RAMP D CURVE DATA

Curve C6 PI = 1304.4843 DELTA = 55°55' 52.52" (LT) D = 19' 25' 20" T = 156.63' L = 287.98' R = 25000.00' PC = 1302.6180 PT = 1305.4978	Curve C7 PI = 1307.8361 DELTA = 52°11' 47.76" (RT) D = 17' 03' 07" T = 279.22' L = 519.27' R = 17000.00' PC = 1308.0439 PT = 1309.2366 DS = 40 MPH E = 7.80%	Curve RT1E103 SPURI PI = 1507.9376 DELTA = 65°09' 48.89" (RT) D = 20' 50' 05" T = 170.200' L = 312.76' R = 25000.000' PC = 1500.0000 PT = 1503.1276 DS = 20 MPH E = 3.00%
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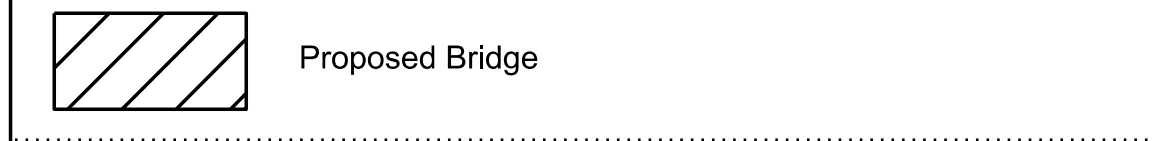
Project Location



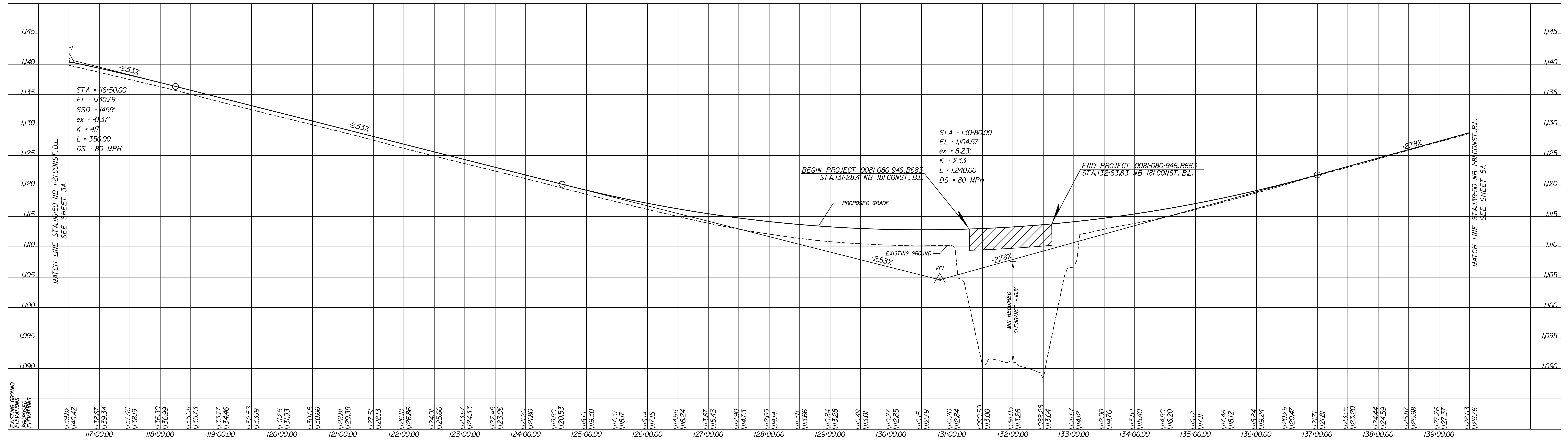
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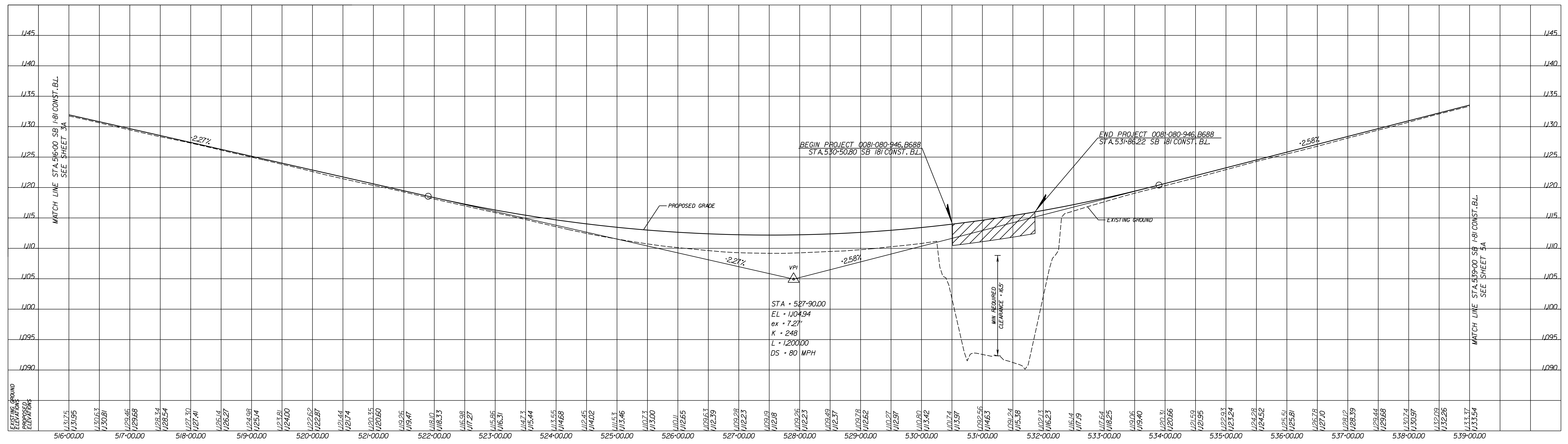
Legend



I-81 NORTHBOUND



I-81 SOUTHBOUND



RFP PLANS
For Information
Only
DATE: 10/22/20

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Contact Information

Craig Moore, PE
Project Manager / Assistant District L&D Engineer
Virginia Department of Transportation
731 Harrison Avenue
Salem, VA 24153

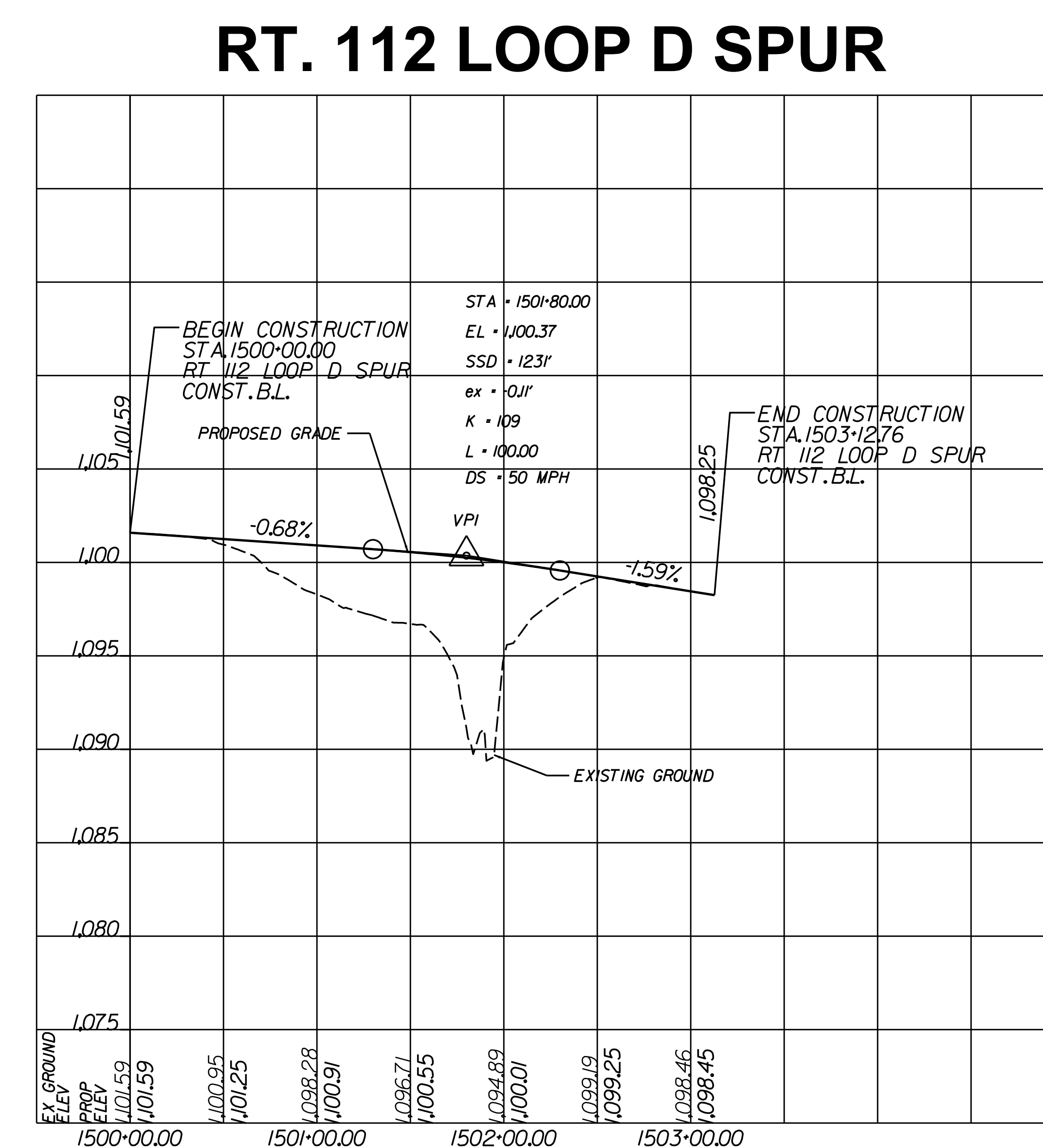
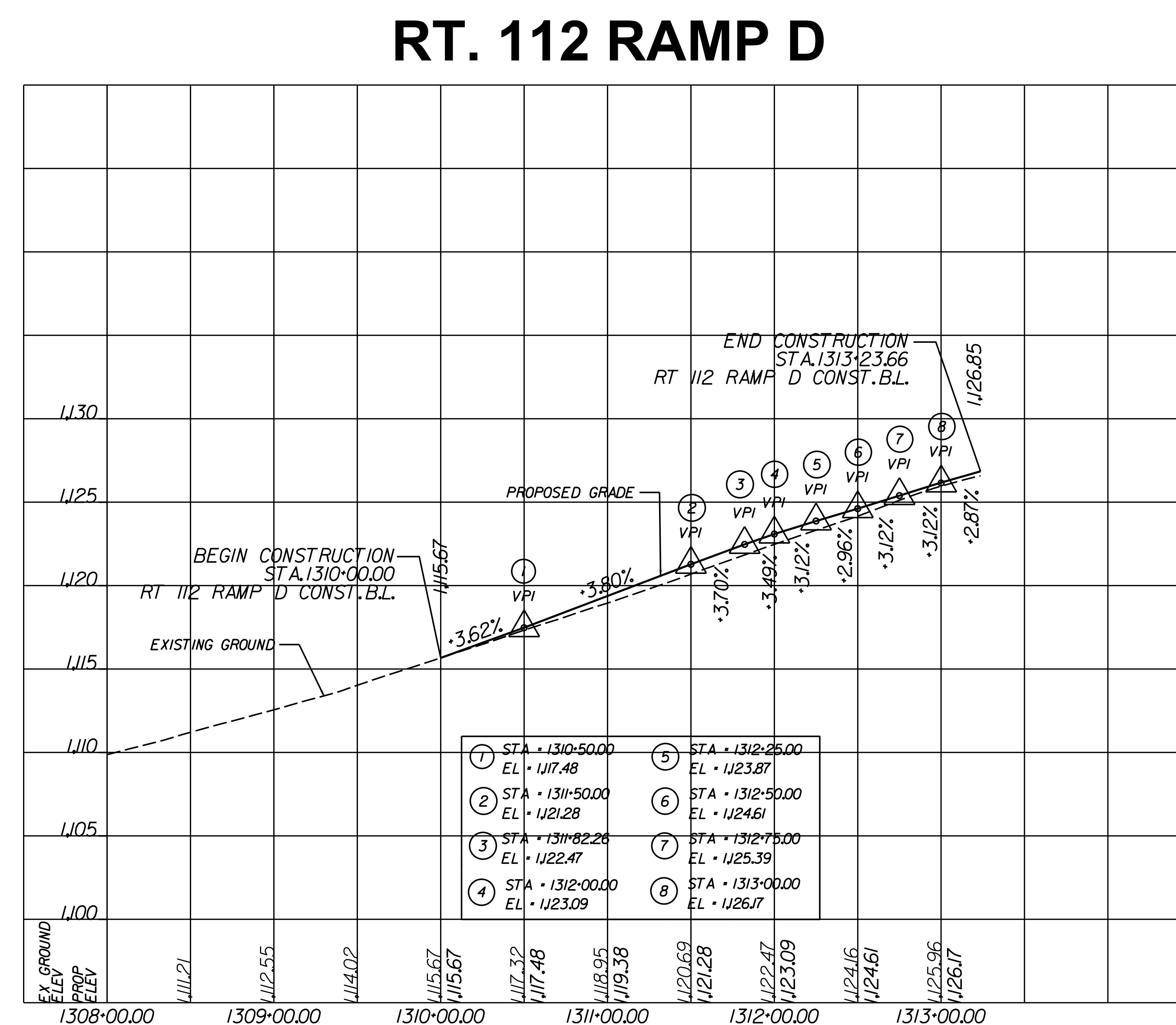
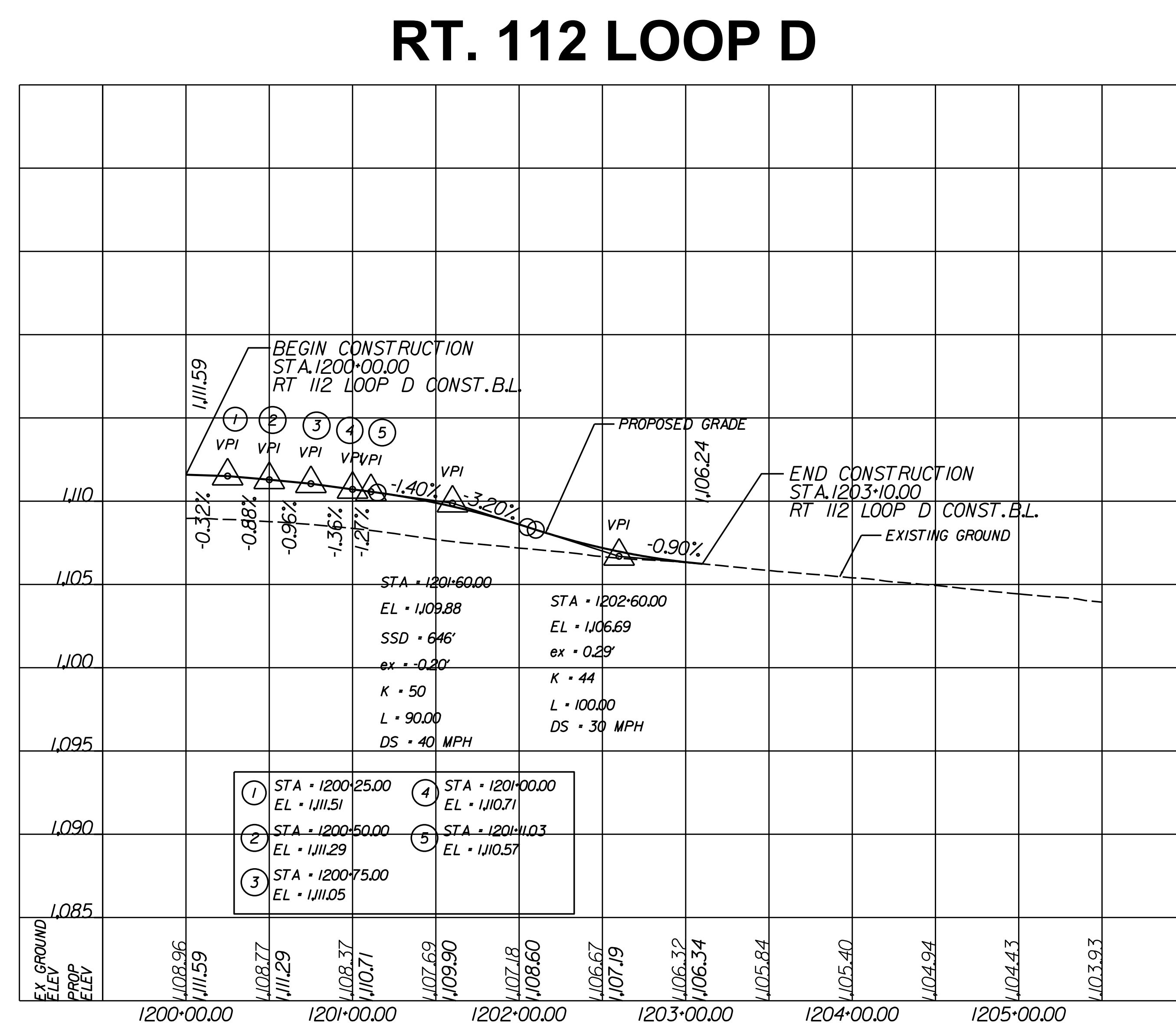
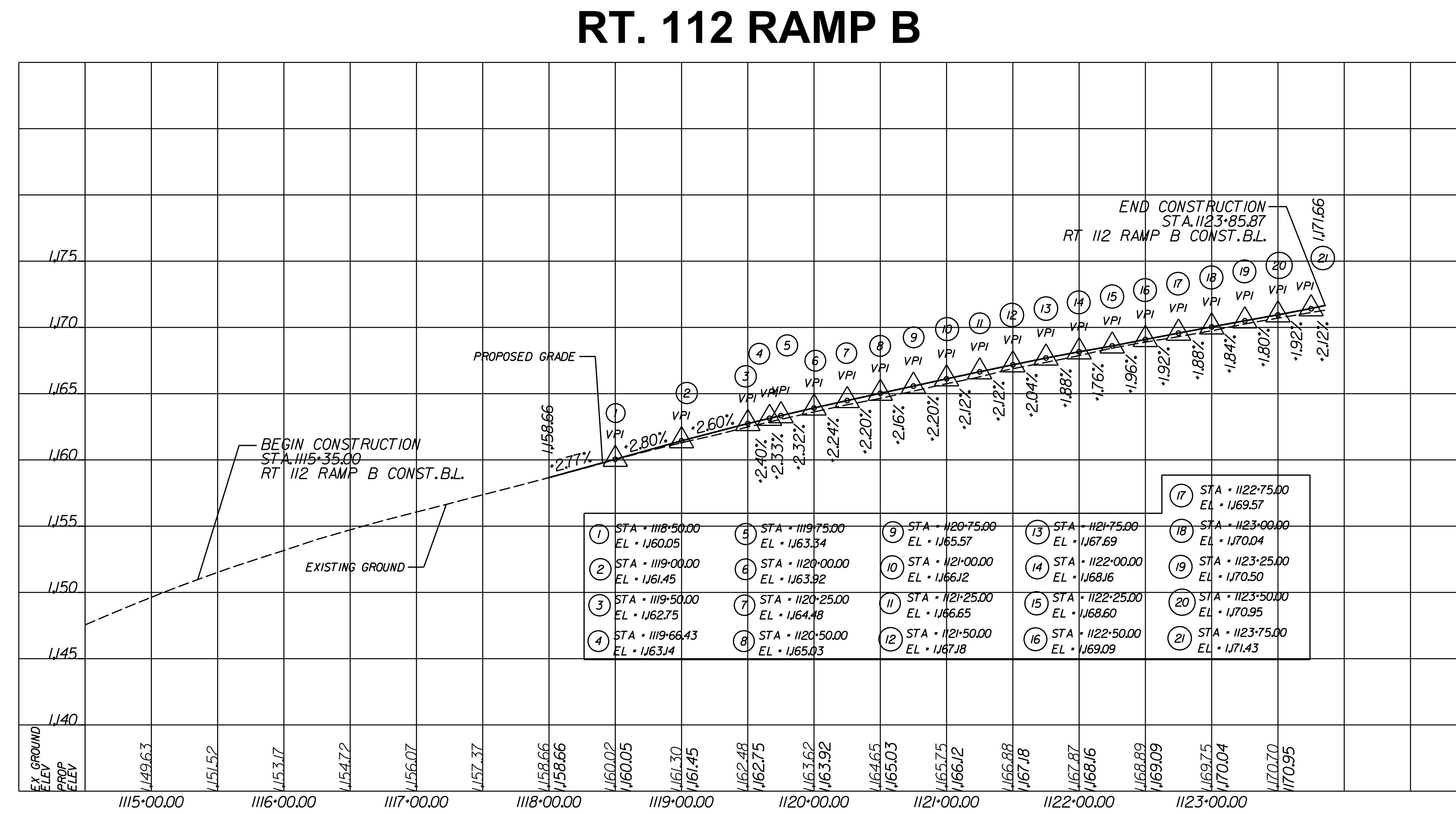
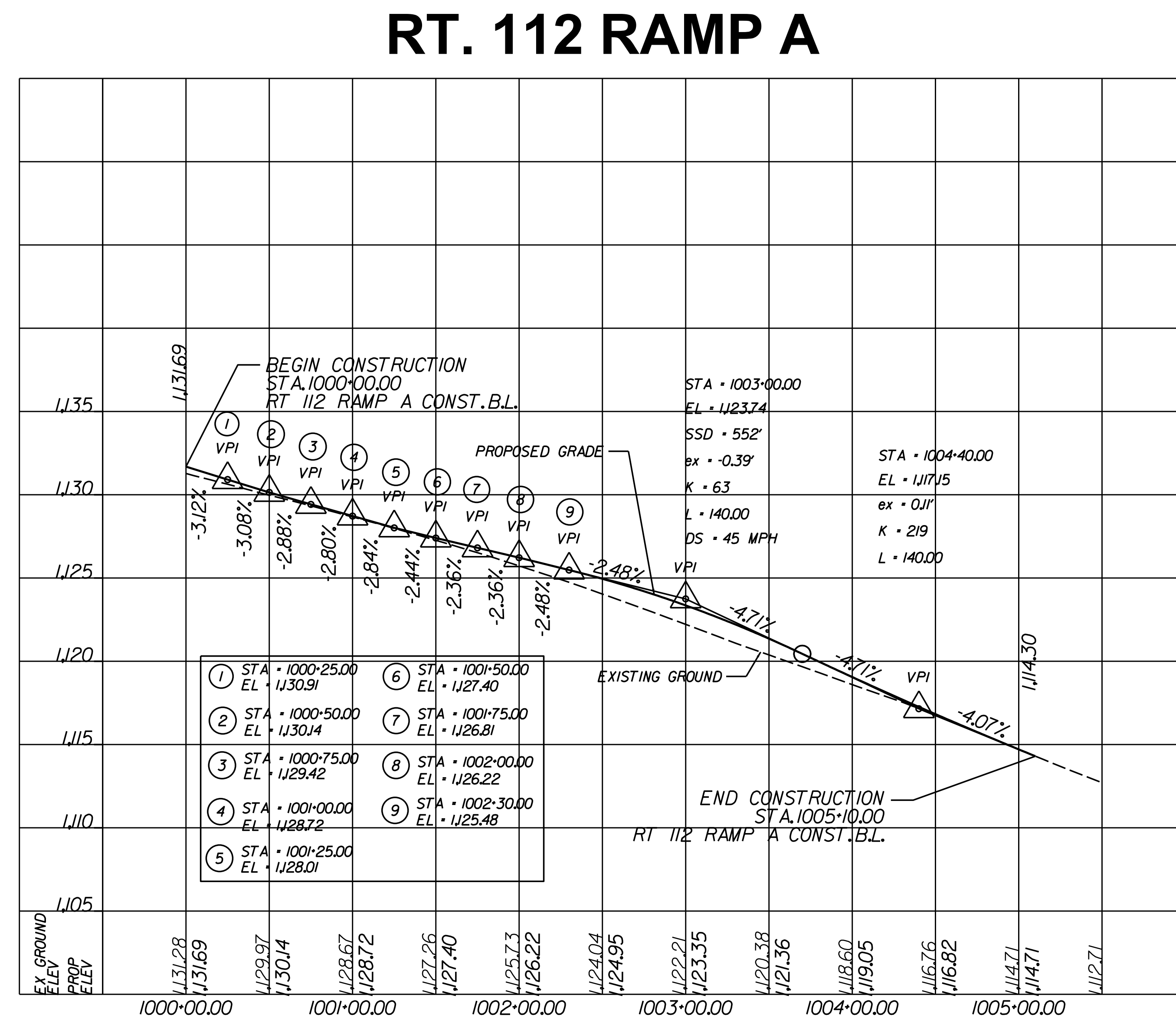
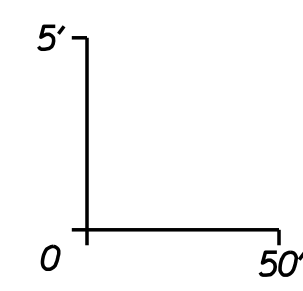
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Scale



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Contact Information
Craig Moore, PE
Project Manager / Assistant District L&D Engineer
Virginia Department of Transportation
731 Harrison Avenue
Salem, VA 24153
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181-MM138-141@vdot.virginia.gov

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