

PROJECT ID:
WITH: N/A
1196-04-77

COUNTY:
BARRON

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS =



DESIGN DESIGNATION

A.A.D.T.	2021	=	15,900
A.A.D.T.	2041	=	17,500
D.H.V.		=	---
D.D.		=	---
T.		=	---
DESIGN SPEED		=	70 MPH
ESALS		=	---

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE

GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

NEW AUBURN - RICE LAKE

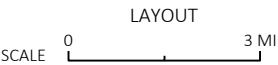
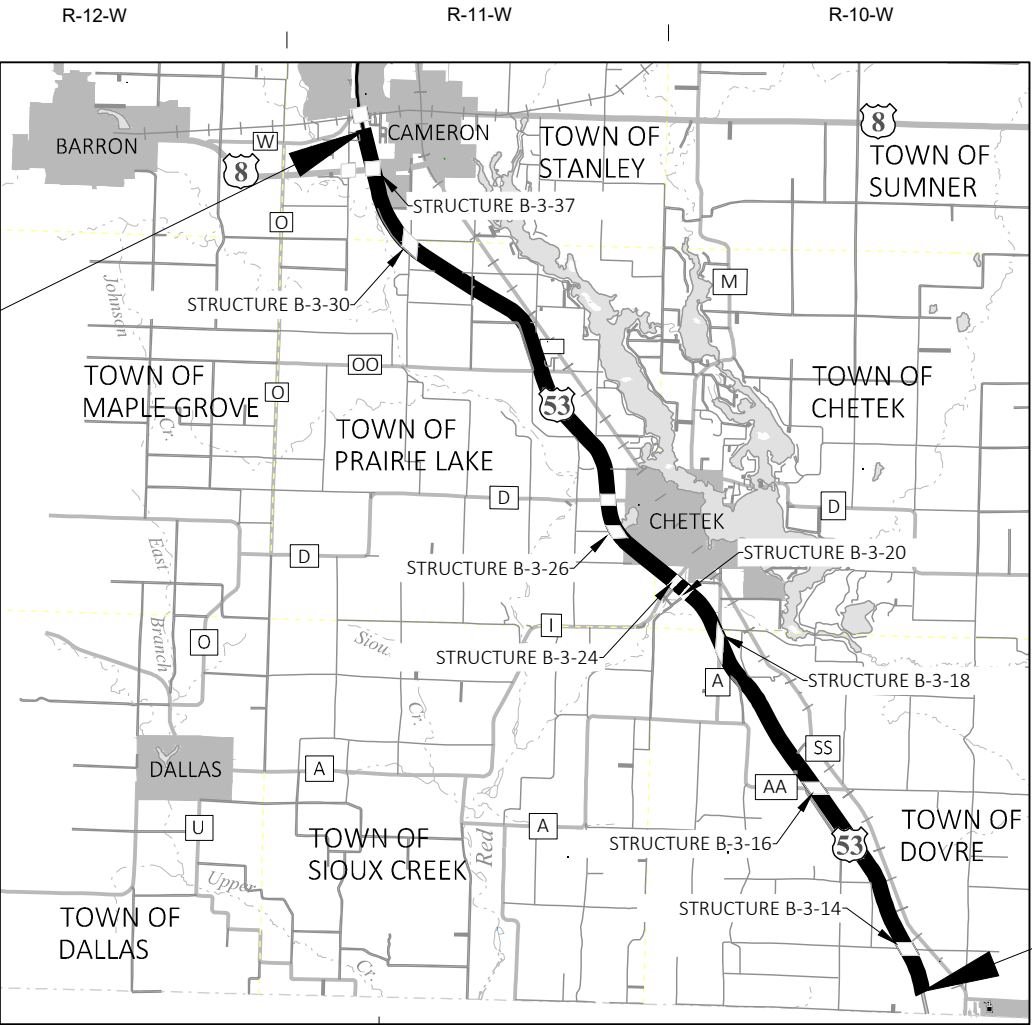
(CHIPPEWA COUNTY LINE TO USH 8 (SB))

USH 53

BARRON COUNTY

STATE PROJECT NUMBER
1196-04-77

END PROJECT
STA. 905+86.00



TOTAL NET LENGTH OF CENTERLINE = 16.743

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, BARRON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

BEGIN PROJECT
STA. 21+81.00
X=376,206.25
Y=27,947.88

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1196-04-77		

30% PLANS

ORIGINAL PLANS PREPARED BY:



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	STRAND ASSOCIATES, INC.
Surveyor	STRAND ASSOCIATES, INC.
Designer	BRENDAN DIRKES, P.E.
Project Manager	WISDOT NORTHWEST REGION
Regional Examiner	WILLIAM KURTZ, P.E.
Regional Supervisor	

APPROVED FOR THE DEPARTMENT
DATE: _____ (Signature)

GENERAL NOTES

THE CENTERLINE OF SOUTHBOUND USH 53 IS APPROXIMATELY THE MAINLINE REFERENCE LINE.

DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN ON THE PLANS. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THAT AREA.

ADJUST THE LOCATIONS OF CONTRACT ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY FACILITIES, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT SPECIAL PROVISIONS.

WHEN THE QUANTITY OF BASE AGGREGATE DENSE IS MEASURED FOR PAYMENT IN TONS, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

ALL EXISTING SIGNS SHALL REMAIN IN PLACE UNLESS THE ENGINEER APPROVES THEIR REMOVAL.

ANY SIGNS REMOVED DUE TO CONTRACTOR MEANS AND METHODS SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.

THE CONTRACTORS PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING LANE.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASE ON 112 LB/SY/IN.

UTILITY CONTACTS

BARRON ELECTRIC COOPERATIVE NATE STEINES P.O. BOX 40 BARRON, WI 54812 PHONE: (800) 322-1008 NSTEINES@BARRONELECTRIC.COM	VILLAGE OF CAMERON MUNICIPAL WATER UTILITY JADEN EBERT P.O. BOX 387 CAMERON, WI 54822 PHONE: (715) 458-2158 CAMWATER@CHIBARDUN.NET	CENTURYLINK MONTY PARKER PHONE: (715) 234-5528 MONTY.PARKER@CENTURYLINK.COM	CHIBARDUN TELEPHONE COOPERATIVE, INC. (MOAIC TELECOM) DENNIS RUSSETT P.O. BOX 664 CAMERON, WI 54822 PHONE: (715) 458-5378 CTCDENNIS@MOAICTELECOM.COM
CHARTER COMMUNICATIONS THOMAS HAASE 12405 POWERSCOURT DRIVE SAINT LOUIS, MO 63131 PHONE: (715) 719-0564 TOM.HAASE@CHARTER.COM	CHETEK MUNICIPAL WATER UTILITY DAN KNAPP P.O. BOX 194 CHETEK, WI 54728 PHONE: (715) 924-4236 DKNAPP@CITYOFCHETEK-WI.GOV	CHIPPEWA VALLEY ELECTRIC COOPERATIVE JIM HODOWANIC P.O. BOX 575 CORNELL, WI 54732 PHONE: (715) 239-6800 JHODOWANIC@CVE.COOP	DAIRYLAND POWER COOPERATIVE ROB MALY P.O. BOX 817 LA CROSSE, WI 54602 PHONE: (608) 788-4000 ROB.MALY@DAIRYLANDPOWER.COM
NORTHERN NATURAL GAS COMPANY JUSTIN PETERSEN 8101 BIRCHWOOD COURT SUITE F JOHNSTON, IA 50131 PHONE: (612) 750-0365 JUSTIN.PETERSEN@NNGCO.COM	PACKERLAND BROADBAND (CCI SYSTEMS, INC.) ANDREW HEIGL 105 KENT STREET P.O. BOX 190 IRON MOUNTAIN, MI 49801 ANDY.HEIGL@PACKERLANDBROADBAND.COM	WE ENERGIES NICOLE SMULLEN PHONE: (414) 221-5617 NICOLE.SMULLEN@WECENERGYGROUP.COM	XCEL ENERGY - COMMUNICATION LINE CORISSA SEELY PHONE: (715) 737-4097 CORISSA.E.SEELY@XCELENERGY.COM
XCEL ENERGY - TRANSMISSION CORISSA SEELY PHONE: (715) 737-4097 CORISSA.E.SEELY@XCELENERGY.COM			

HMA PAVEMENT SUMMARY TABLE

USH 53 (OUTSIDE/INSIDE TRAVEL LANES AND INSIDE SHOULDER)		
LAYER	THICKNESS	HMA TYPE
UPPER LAYER	1.75"	4 SMA 58-34 V
LOWER LAYER	1.25"	5 MT 58-34 V

USH 53 (OUTSIDE LANE SHOULDER)		
LAYER	THICKNESS	HMA TYPE
UPPER	VARIES*	5 LT 58-34 S

*SEE TYPICAL SECTIONS FOR ADDITIONAL INFORMATION

WISDOT CONTACT

DESIGN PROJECT MANAGER
BRENDAN DIRKES, P.E.
WISDOT NORTHWEST REGION
1701 N. 4TH ST
SUPERIOR, WI 54880
OFFICE: (715) 395-3026
BRENDAN.DIRKES@DOT.WI.GOV

DESIGN CONTACT

KEN SWANSON, P.E.
STRAND ASSOCIATES, INC.
910 WEST WINGRA DRIVE
MADISON, WI 53715
OFFICE: (608) 251-4843
KEN.SWANSON@STRAND.COM

WISDNR REGION CONTACTS

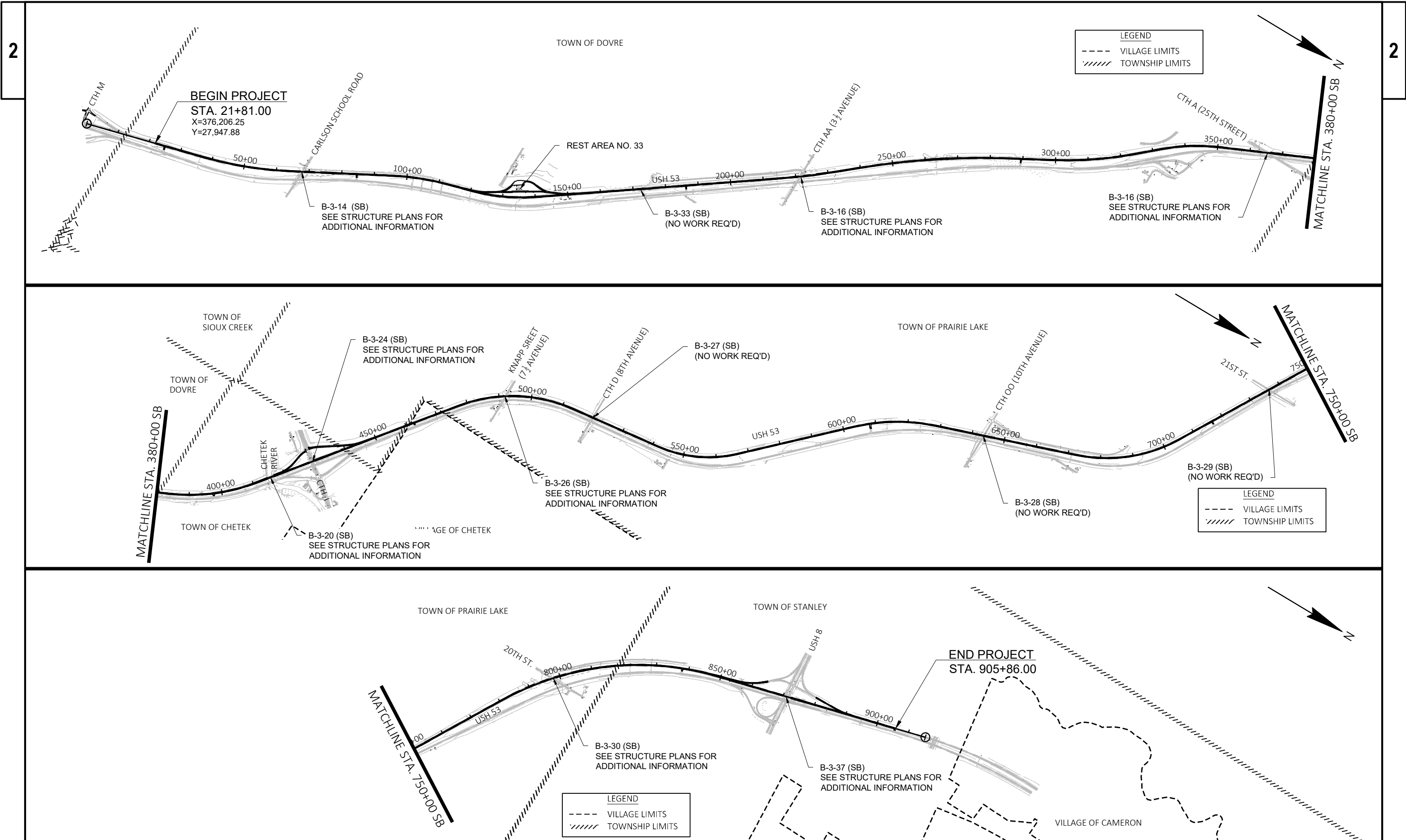
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
AMY CRONK
NORTHERN REGION HEADQUARTERS
810 WEST MAPLE STREET
SPOONER, WI 54801
OFFICE: (715) 635-4229
AMY.CRONK@WISCONSIN.GOV

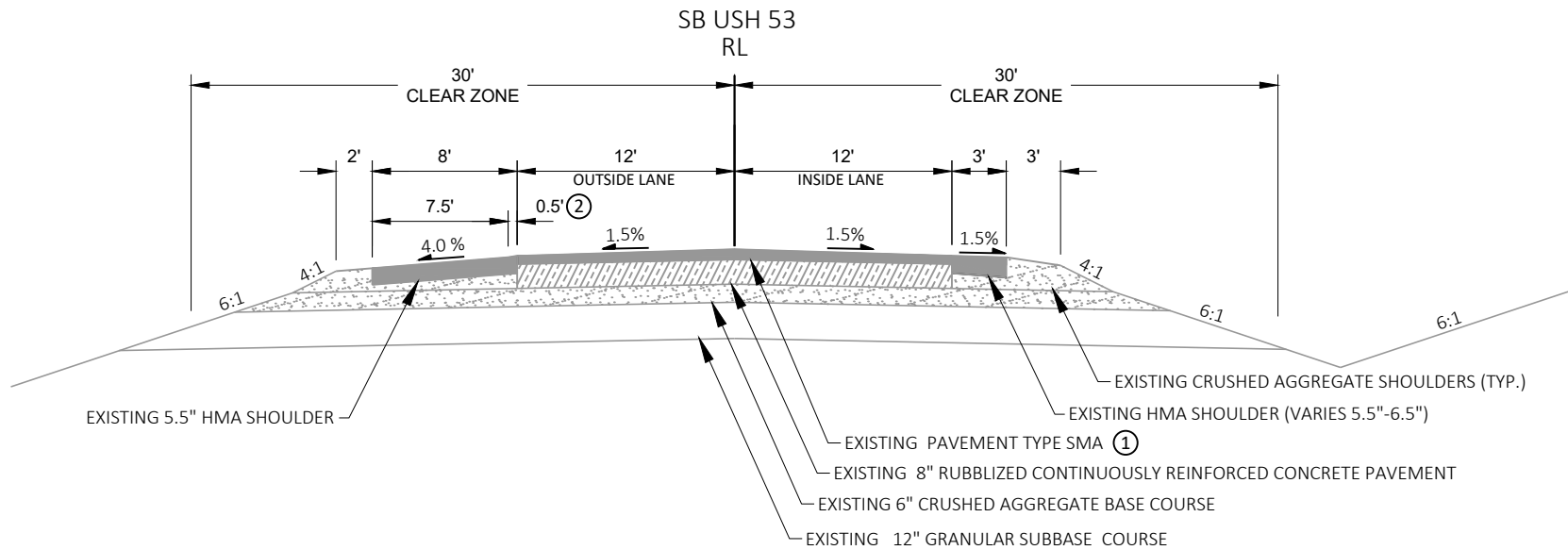
ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PAVEMENT MARKING
TRAFFIC CONTROL TYPICAL SECTIONS



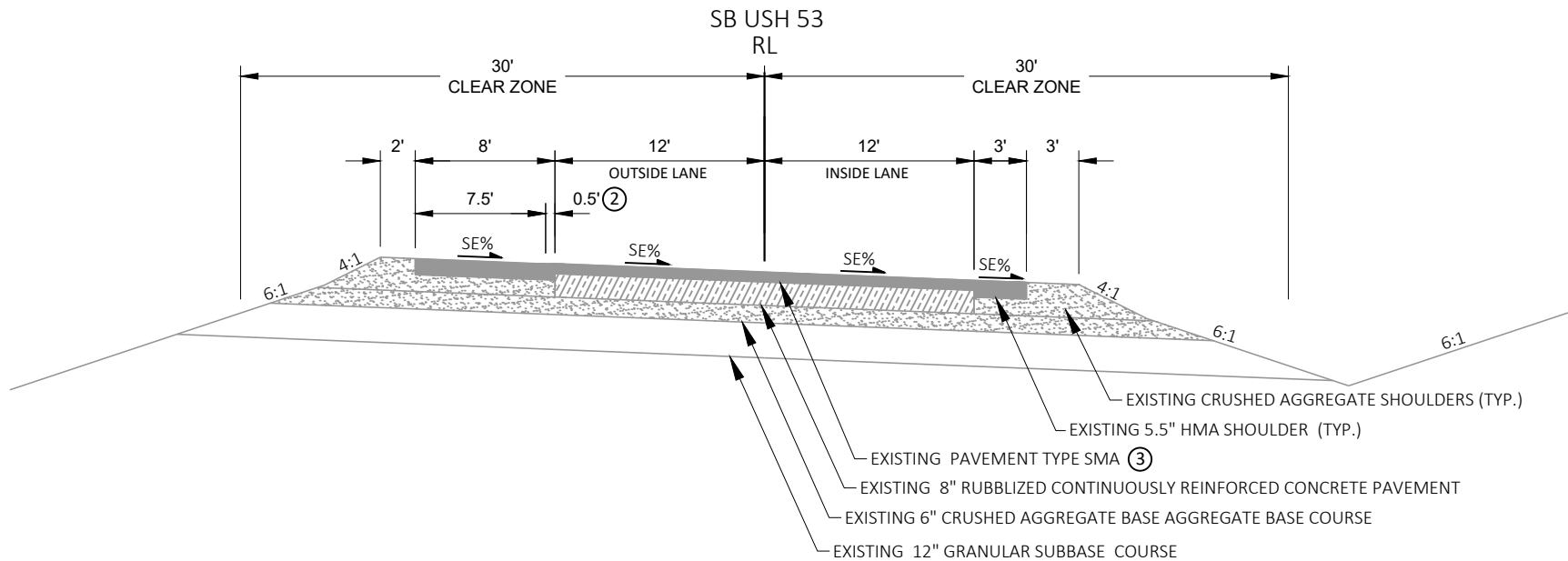
Dial 811 or (800)242-8511
www.DiggersHotline.com





EXISTING TYPICAL SECTION
STA. 21+81 TO STA. 905+86

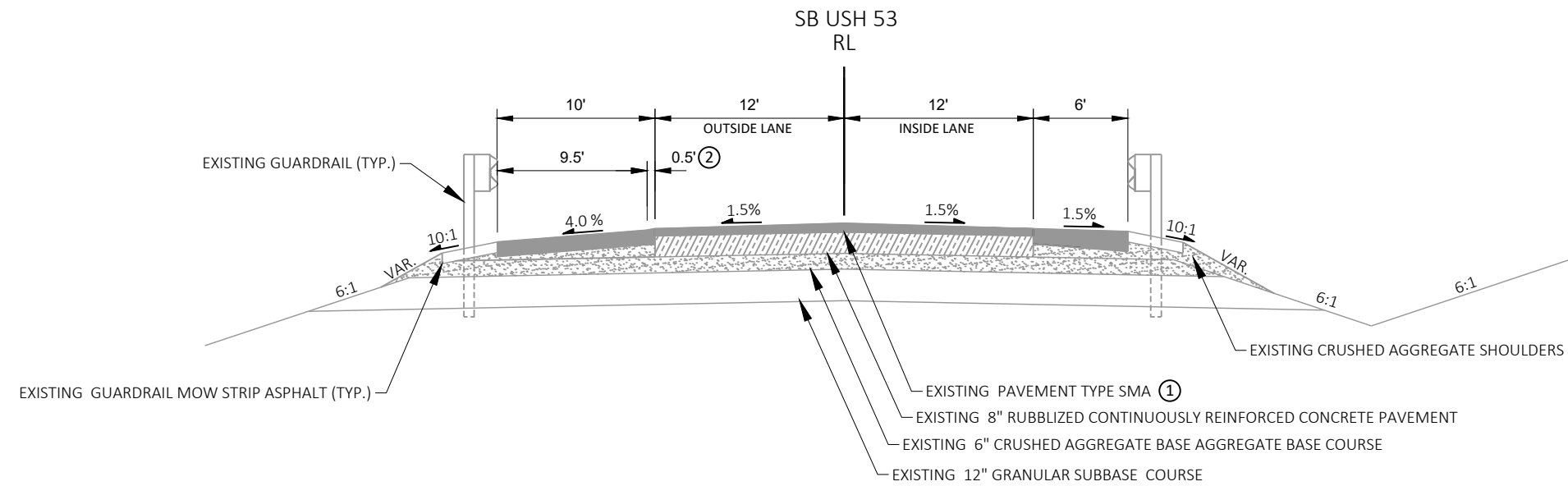
- ① THICKNESS VARIES FROM 2.75" AT SHOULDER TO 3.5 " AT CENTERLINE
- ② PREVIOUS 2010 MAINLINE MILL AND OVERLAY LIMITS EXTENDED 0.5 FEET INTO 8-FOOT PAVED SHOULDER. VARIABLE PAVEMENT CROSS SLOPE WITHIN THESE LIMITS.
- ③ THICKNESS VARIES AT HORIZONTAL CURVES WITH SUPERELEVATIONS



EXISTING TYPICAL SUPERELEVATION SECTION
(SEE PLAN SHEET FOR LOCATIONS)

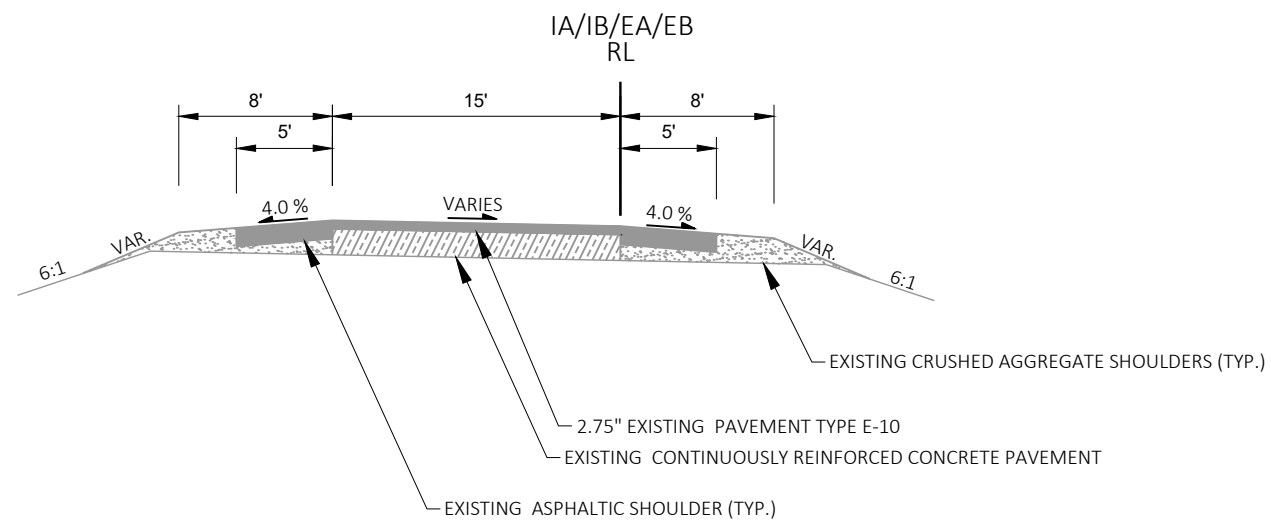
2

2

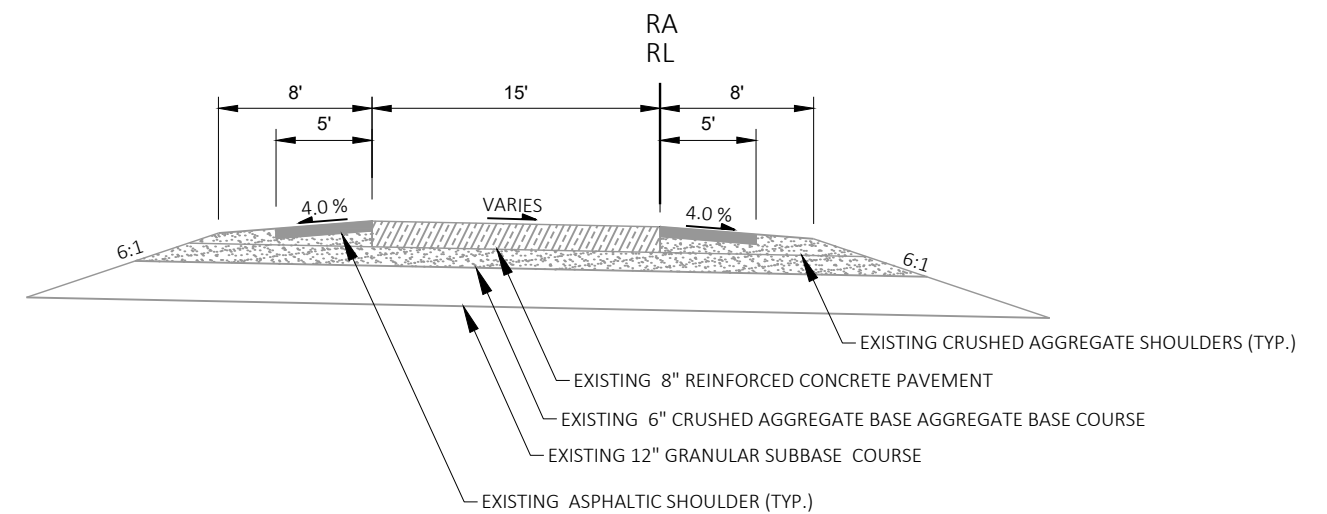


EXISTING TYPICAL GUARDRAIL SECTION
(SEE PLAN SHEETS FOR LOCATIONS)

- ① THICKNESS VARIES FROM 2.75" AT SHOULDER TO 3.5" AT CENTERLINE
- ② PREVIOUS 2010 MAINLINE MILL AND OVERLAY LIMITS EXTENDED 0.5 FEET INTO 8-FOOT PAVED SHOULDER. VARIABLE PAVEMENT CROSS SLOPE WITHIN THESE LIMITS.



EXISTING RAMP TYPICAL SECTION
CTH 1 (IA AND IB LINE)
USH 8 (EA AND EB LINE)



EXISTING RAMP TYPICAL SECTION
WISDOT REST AREA NO. 33 (RA LINE)

PROJECT NO: 1196-04-77

HWY: USH 53

COUNTY: BARRON

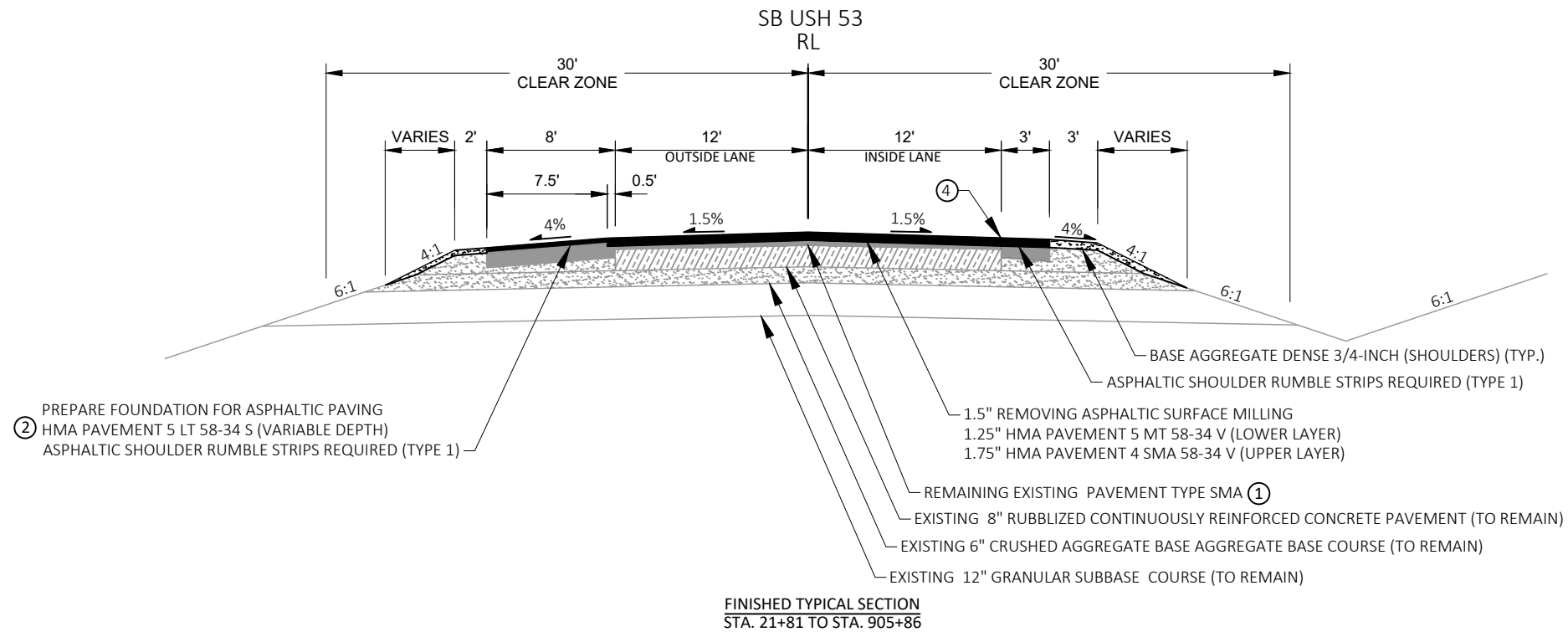
TYPICAL SECTIONS

SHEET

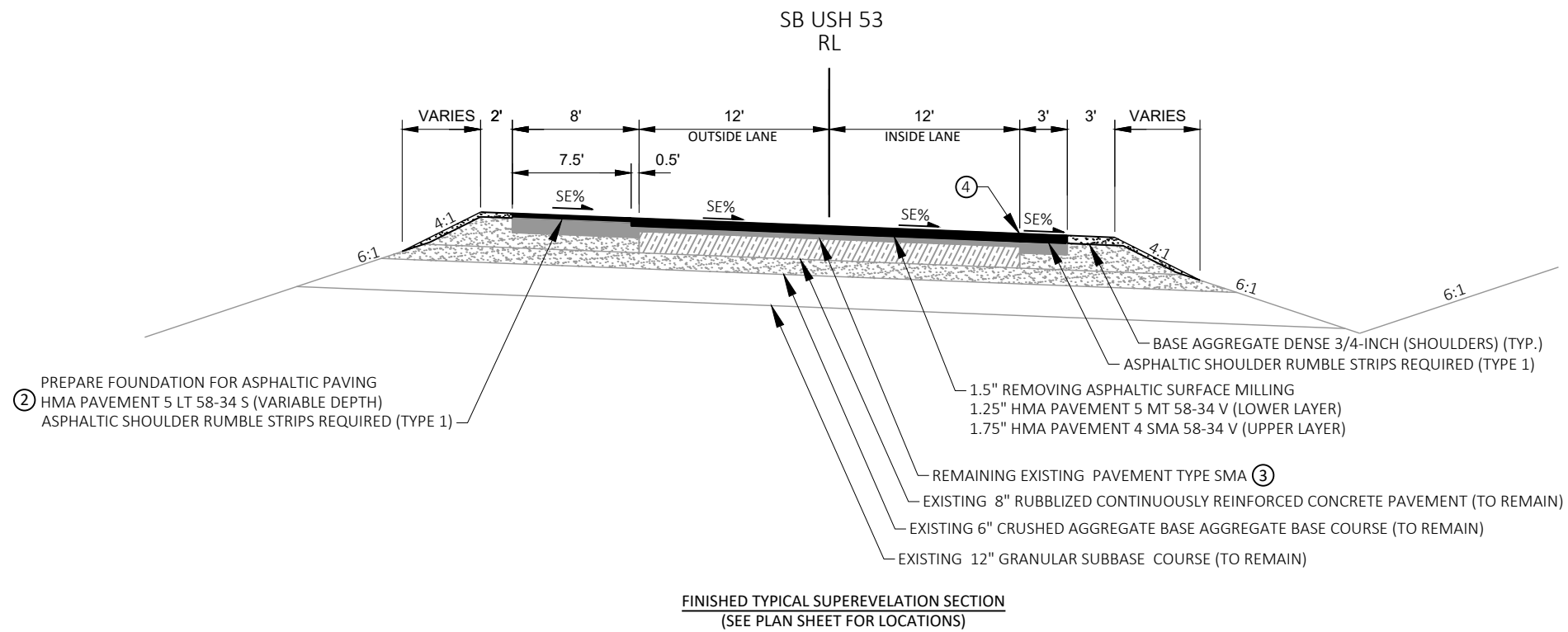
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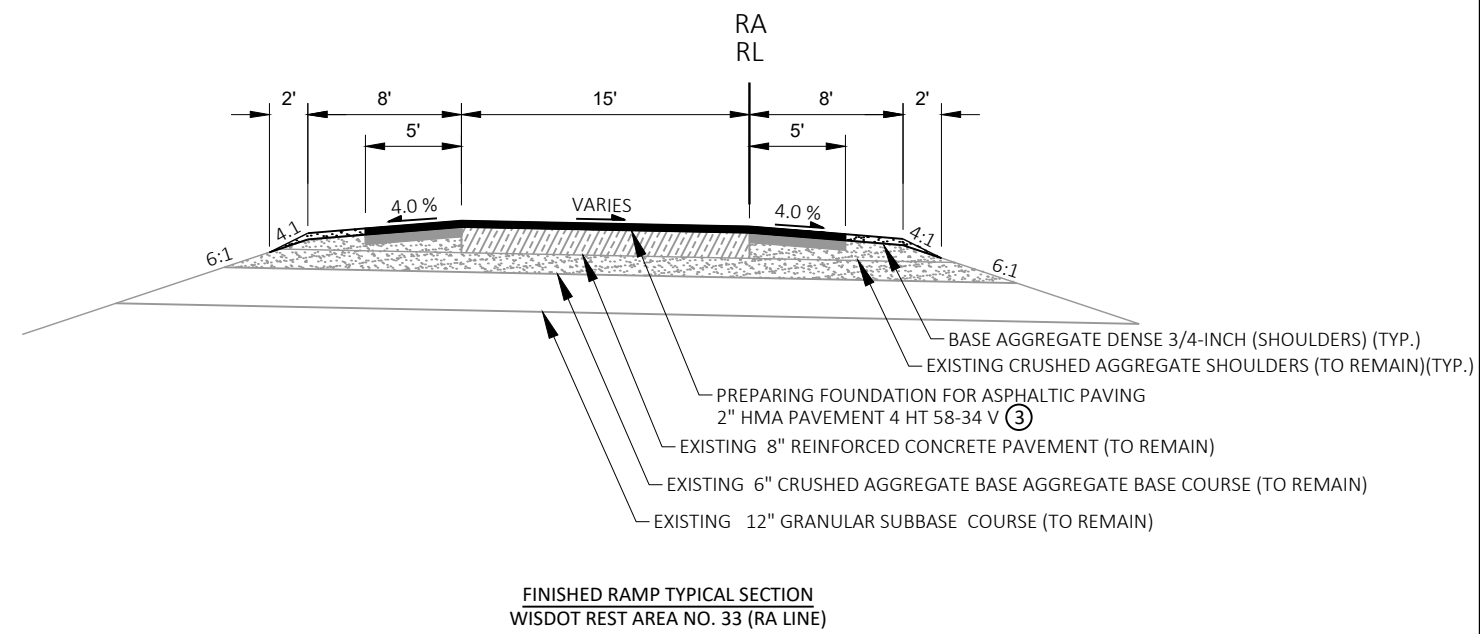
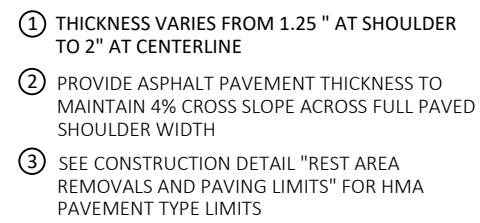
2

2



- ① THICKNESS VARIES FROM 1.25 " AT SHOULDER TO 2" AT CENTERLINE
- ② PROVIDE ASPHALT PAVEMENT THICKNESS TO MAINTAIN 4% CROSS SLOPE ACROSS FULL PAVED SHOULDER WIDTH
- ③ THICKNESS VARIES AT HORIZONTAL CURVES WITH SUPERELEVATIONS
- ④ NO LONGITUDINAL JOINT SHALL BE ALLOWED BETWEEN THE INSIDE TRAVEL LANE AND THE ADJACENT PAVED SHOULDER





2

LEGEND

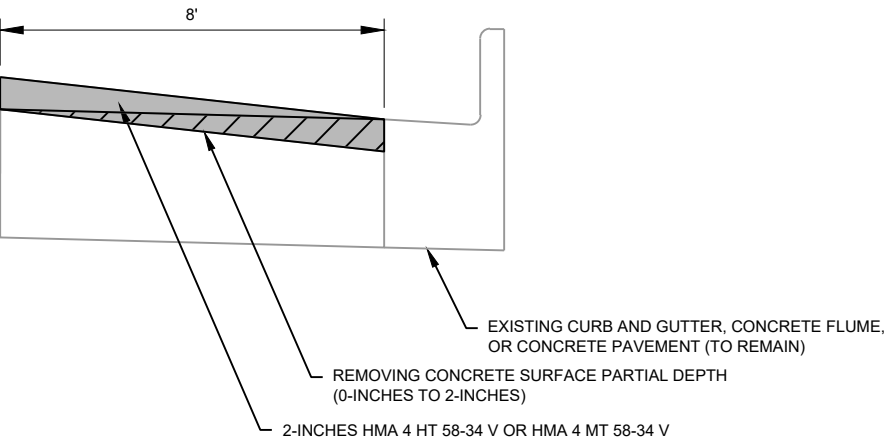
REMOVAL SUMMARY

- REMOVING CONCRETE SURFACE PARTIAL DEPTH (VARIES 0-INCHES TO 2-INCHES)
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
- REMOVING PAVEMENT BUTT JOINTS

PAVEMENT SUMMARY

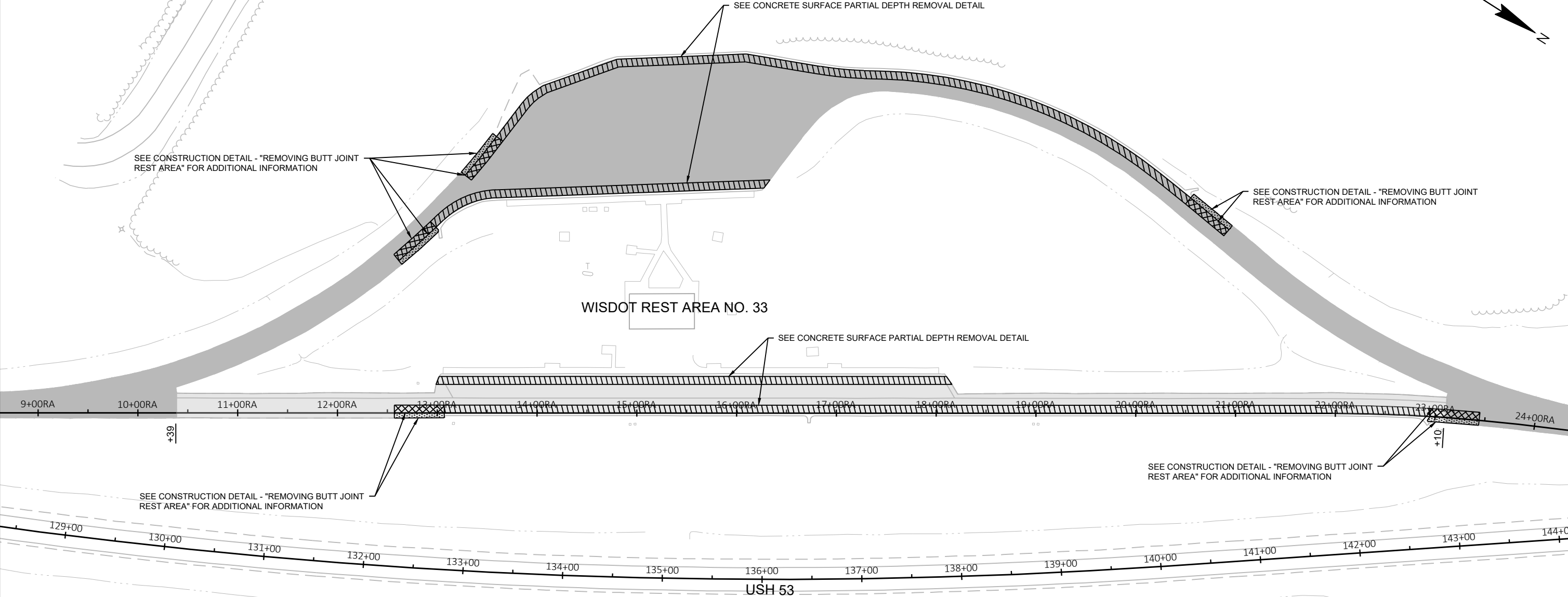
- 2-INCHES HMA PAVEMENT 4 HT 58-34 V
- 2-INCHES HMA PAVEMENT 4 MT 58-34 V

NOTE:
MATCH EXISTING PAVEMENT LIMITS, INCLUDING PAVED SHOULDERS WHERE APPLICABLE.



CONCRETE SURFACE PARTIAL DEPTH REMOVAL DETAIL

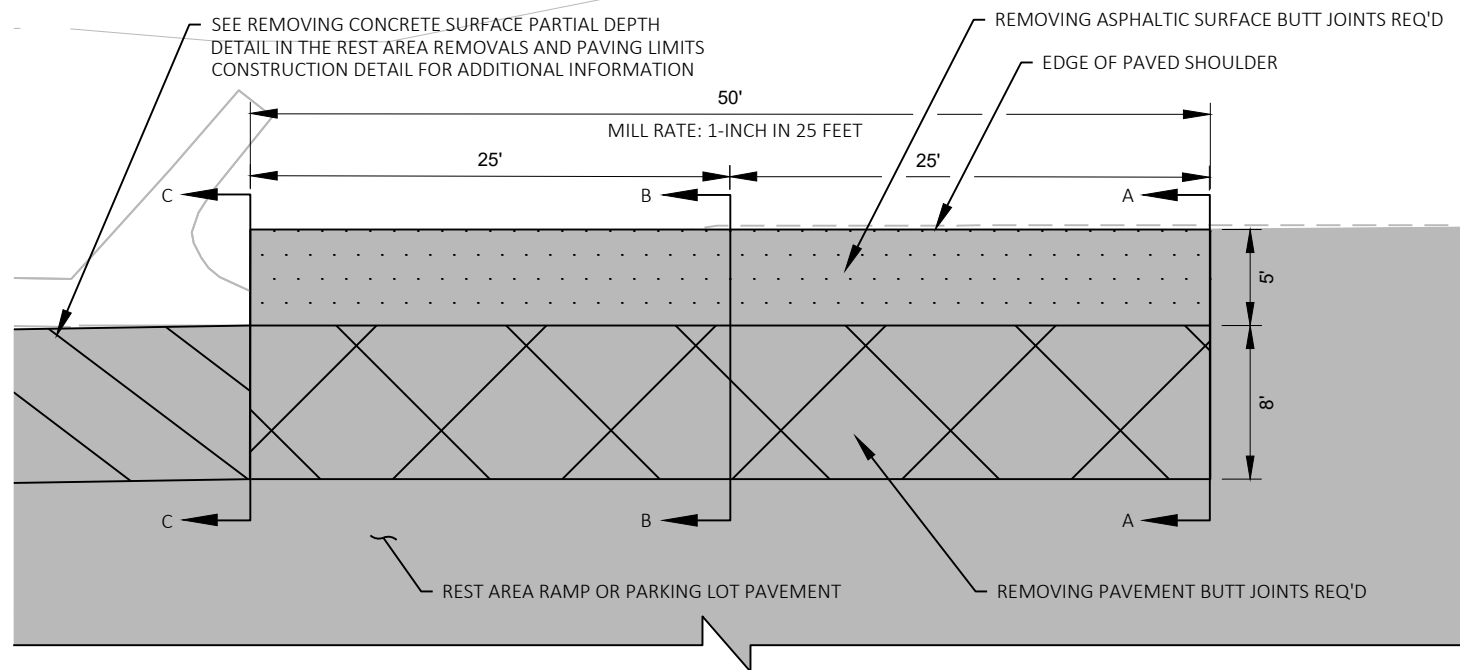
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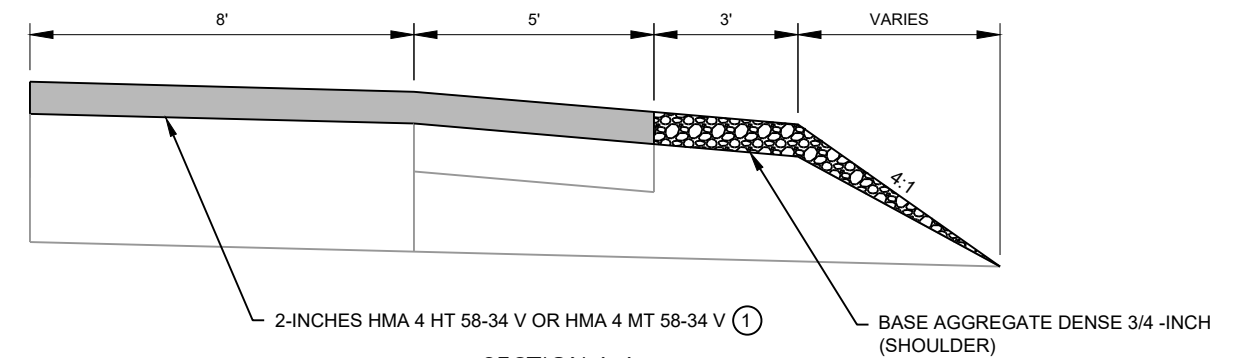
REST AREA NO. 33 - REMOVALS AND PAVING DETAIL

2

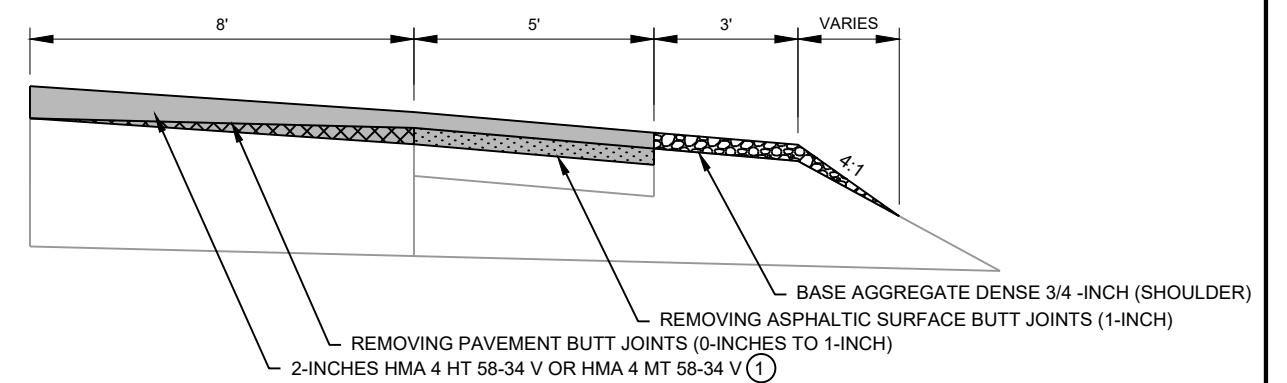
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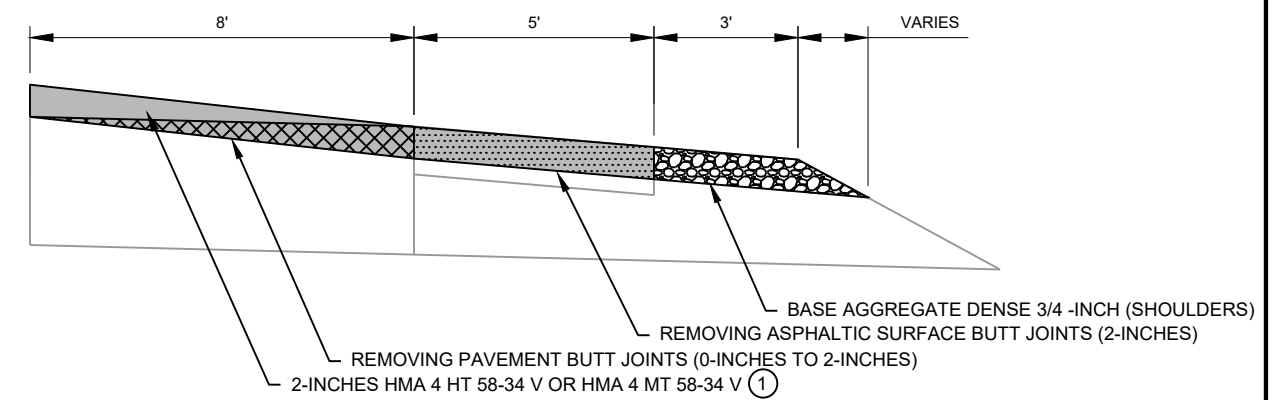
PLAN VIEW



SECTION A-A



SECTION B-B

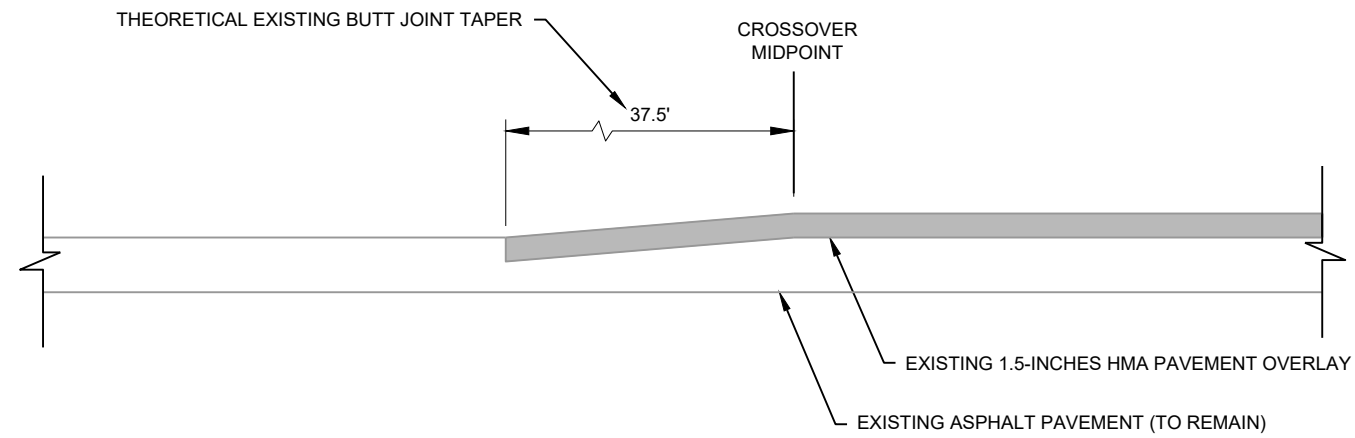


SECTION C-C

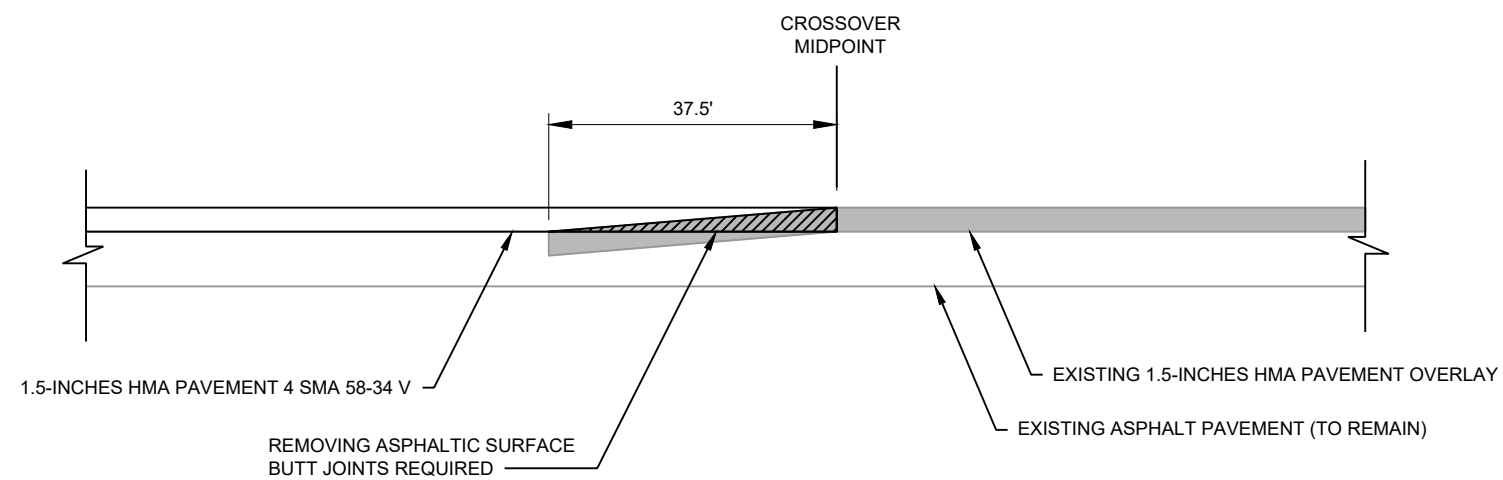
(1) SEE CONSTRUCTION DETAIL - "REST AREA REMOVALS
AND PAVING DETAIL" FOR ADDITIONAL INFORMATION.

2

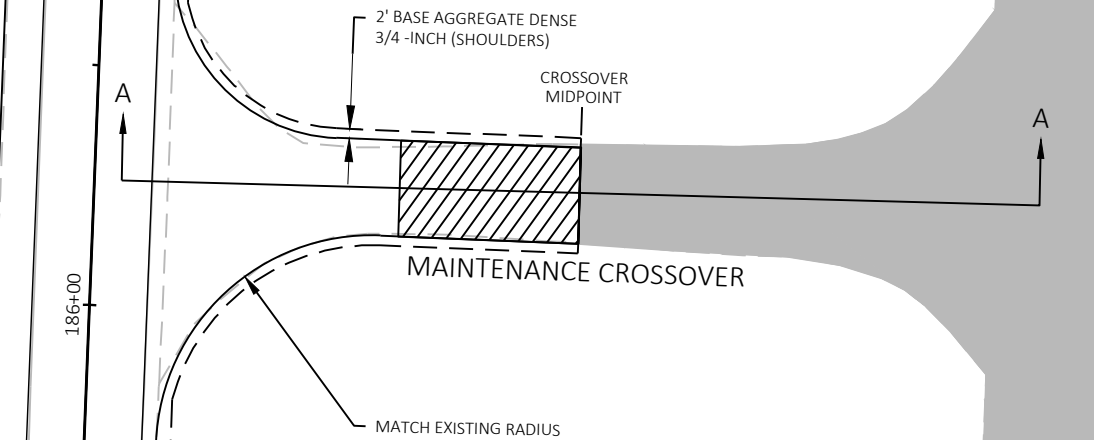
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SECTION A-A - EXISTING CONDITION



SECTION A-A - PROPOSED



PROJECT NO: 1196-04-77

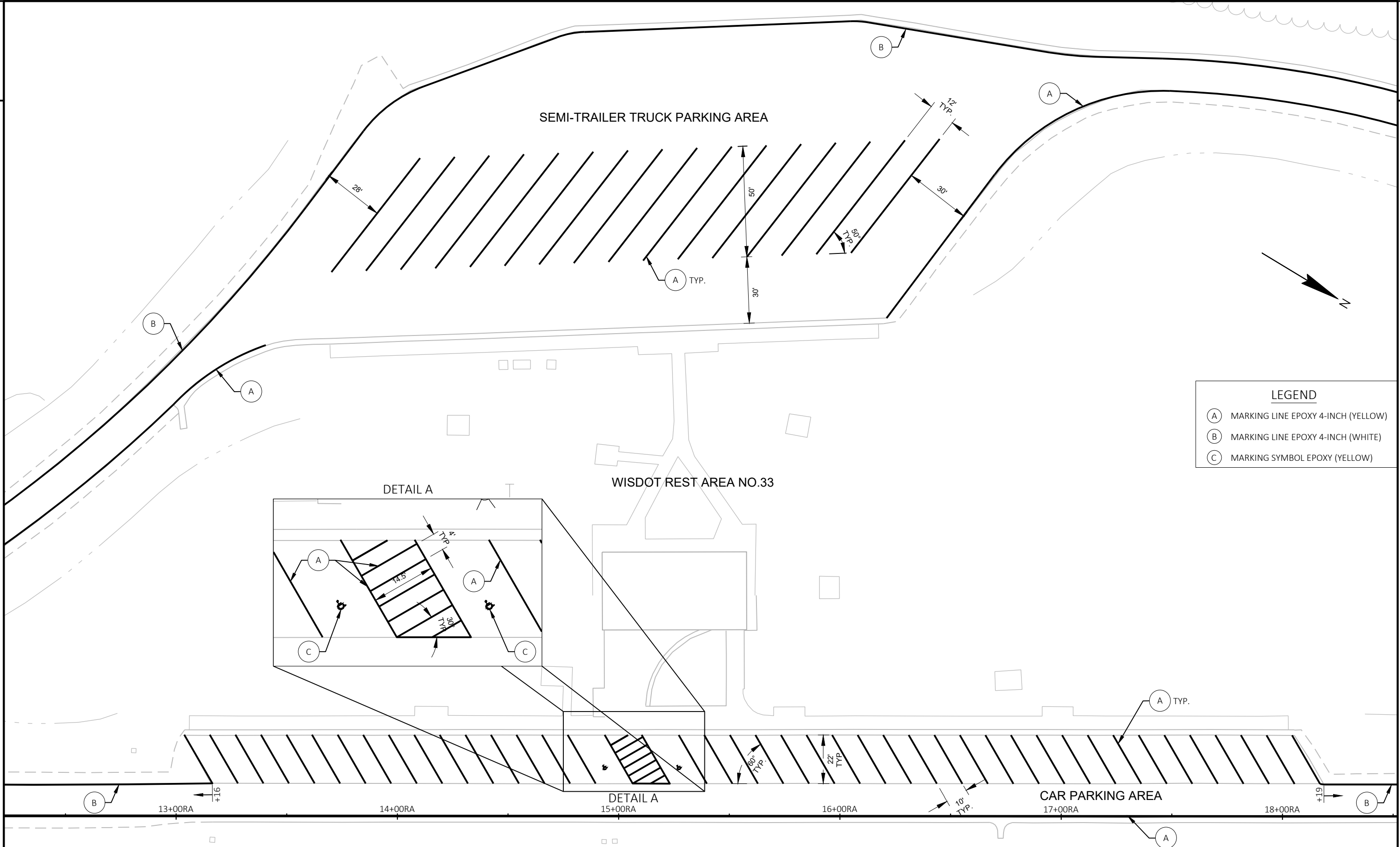
HWY: USH 53

COUNTY: BARRON

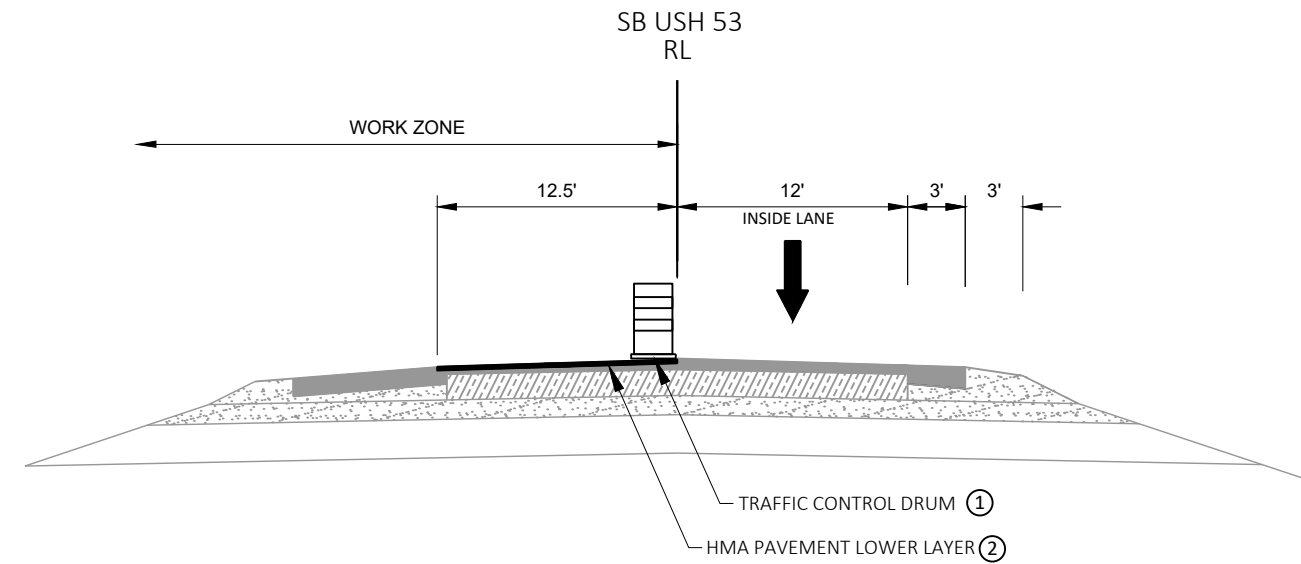
CONSTRUCTION DETAILS - MAINTENANCE CROSSOVER

SHEET

10 E

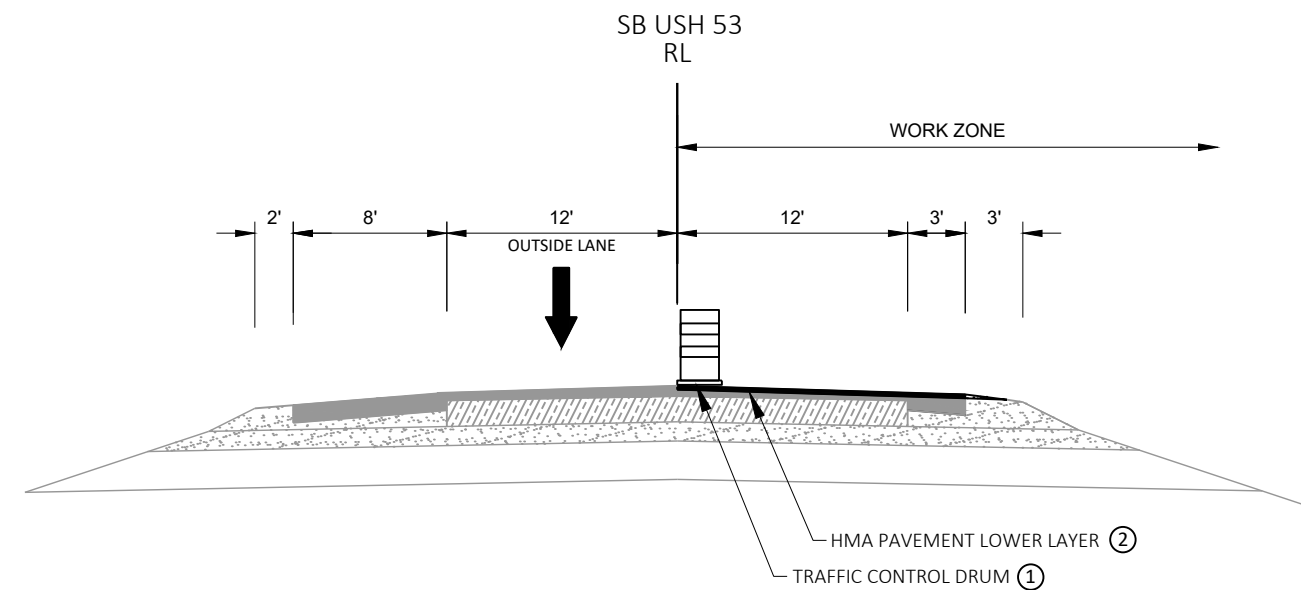


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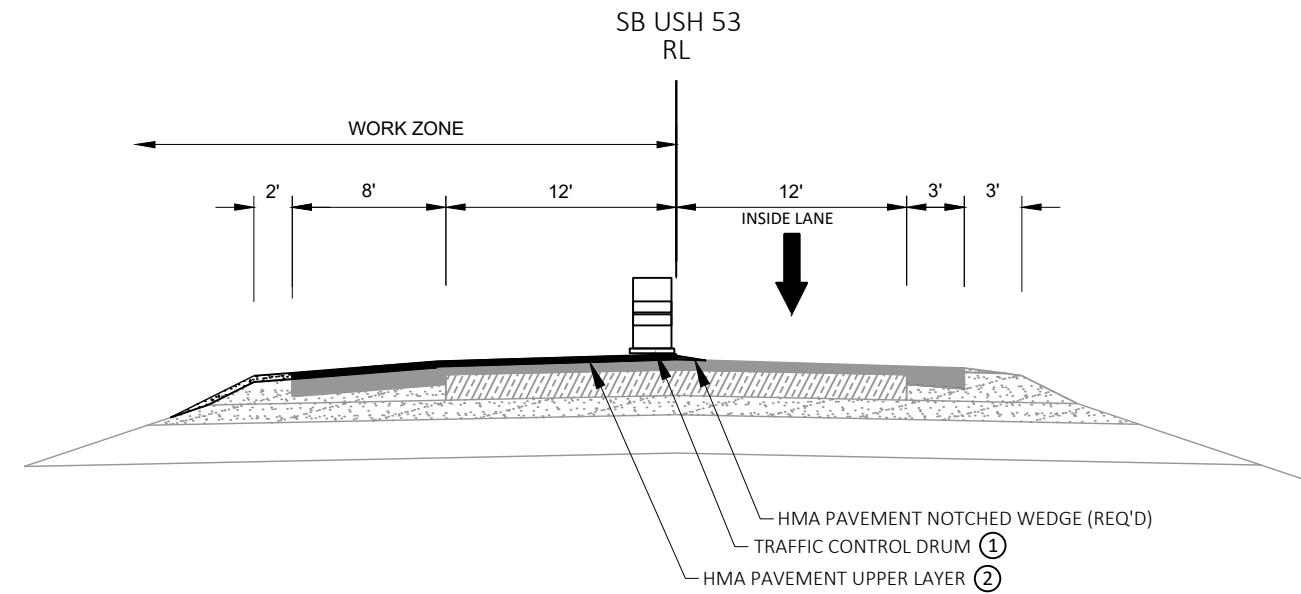
CONSTRUCTION STAGE 1 TYPICAL SECTION
(LOOKING NORTH)

- ① ADJUST TRAFFIC CONTROL DRUM
LOCATION DURING MILLING AND PAVING
OPERATIONS
- ② SEE TYPICAL SECTIONS FOR PAVEMENT
MATERIAL TYPE AND THICKNESS



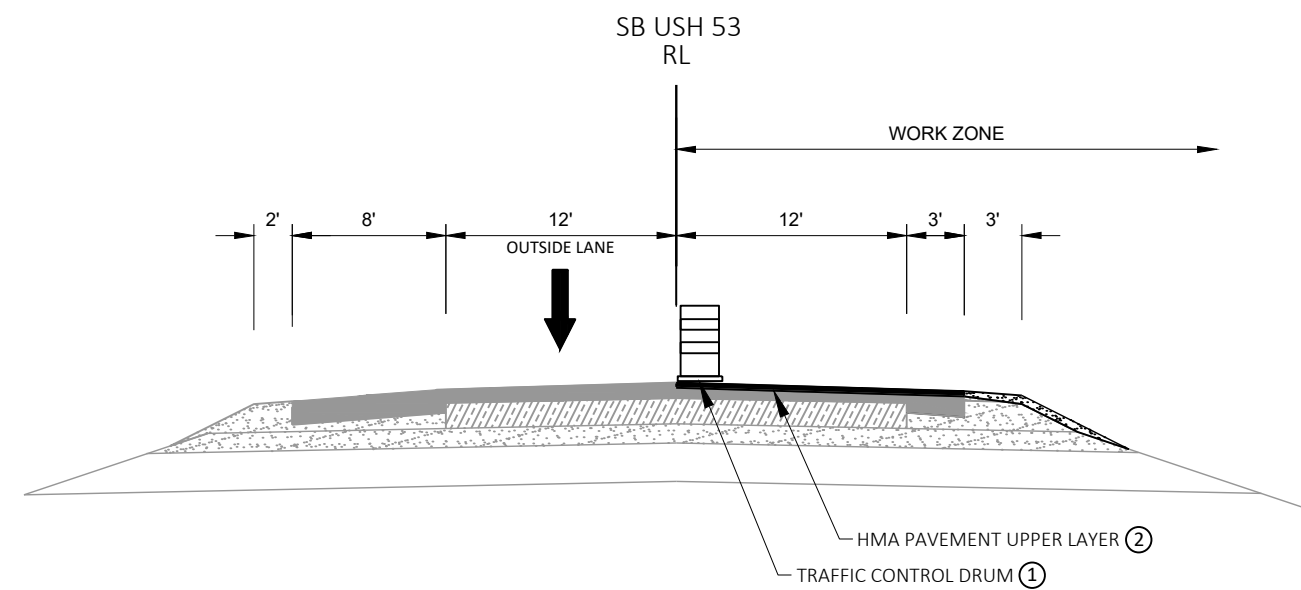
CONSTRUCTION STAGE 2 TYPICAL SECTION
(LOOKING NORTH)

2

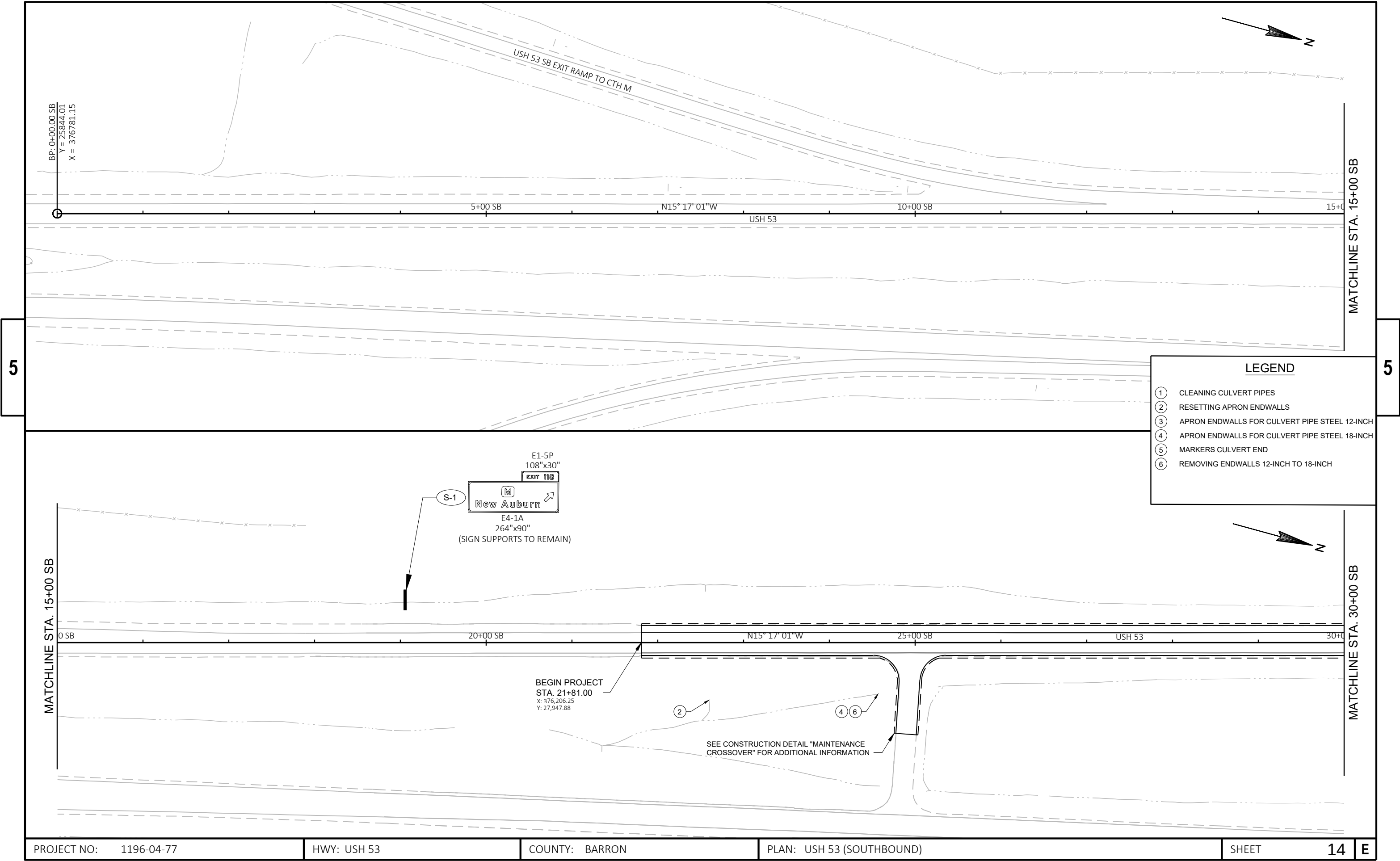


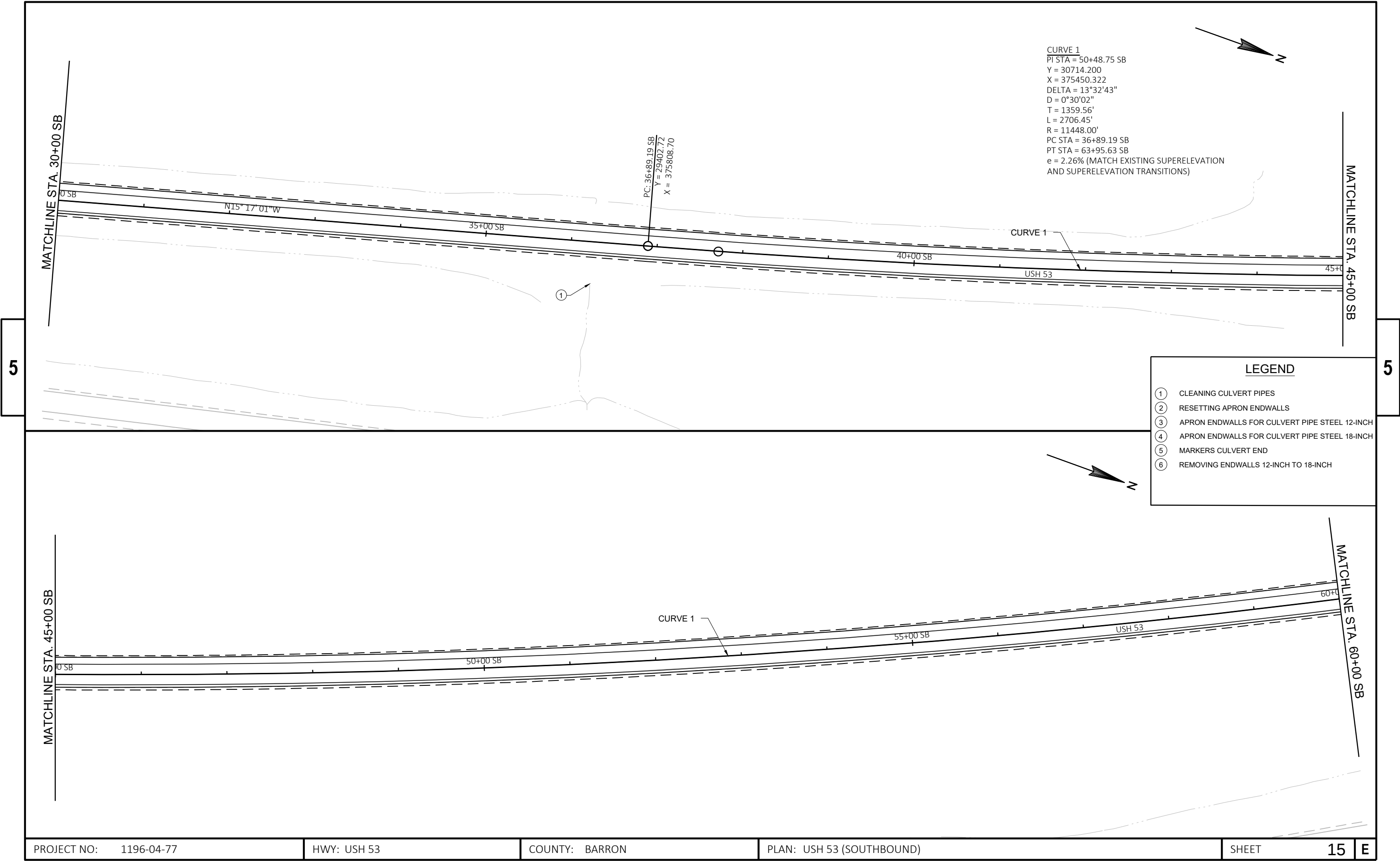
CONSTRUCTION STAGE 3 TYPICAL SECTION
(LOOKING NORTH)

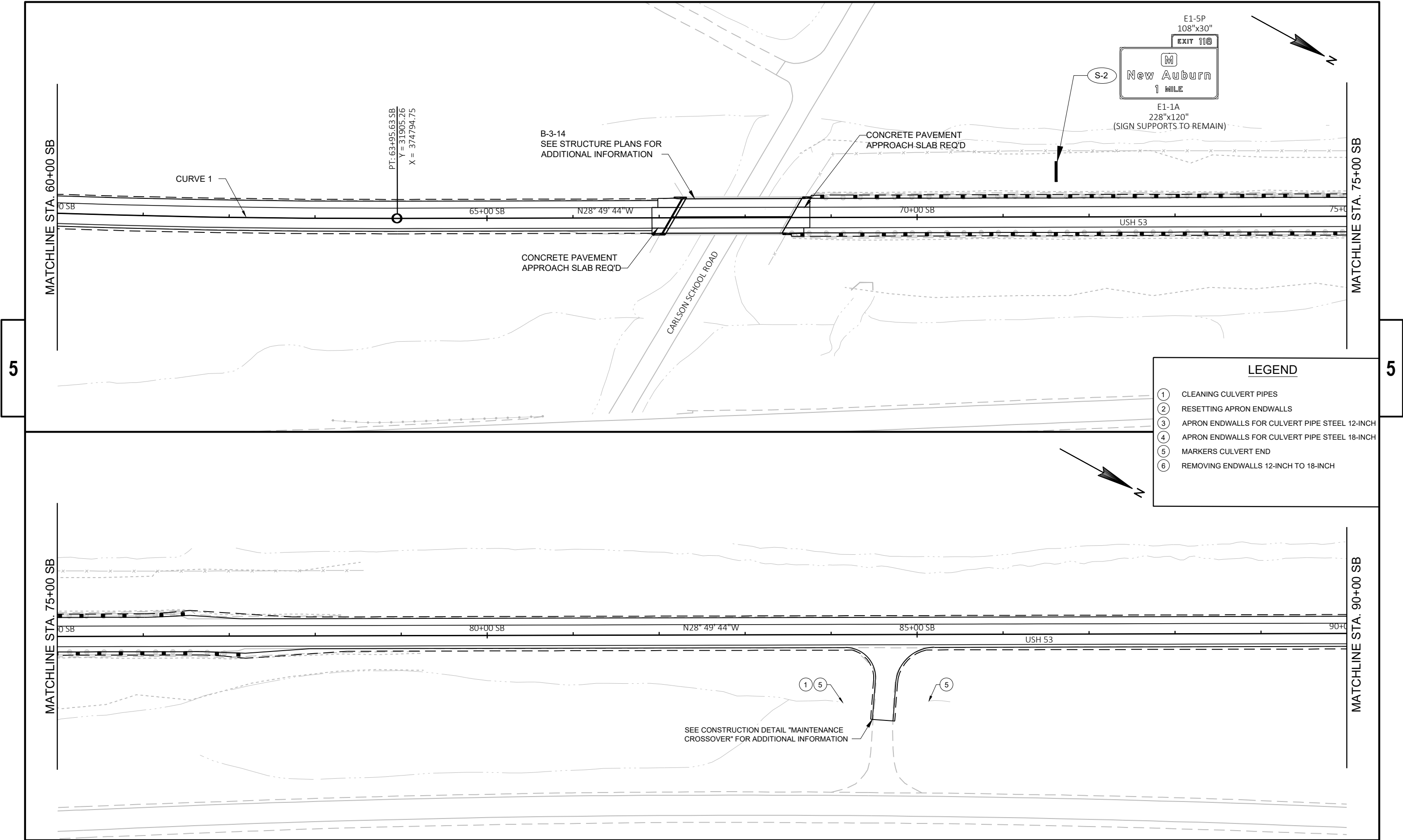
- ① ADJUST TRAFFIC CONTROL DRUM
LOCATION DURING MILLING AND PAVING
OPERATIONS
- ② SEE TYPICAL SECTIONS FOR PAVEMENT
MATERIAL TYPE AND THICKNESS

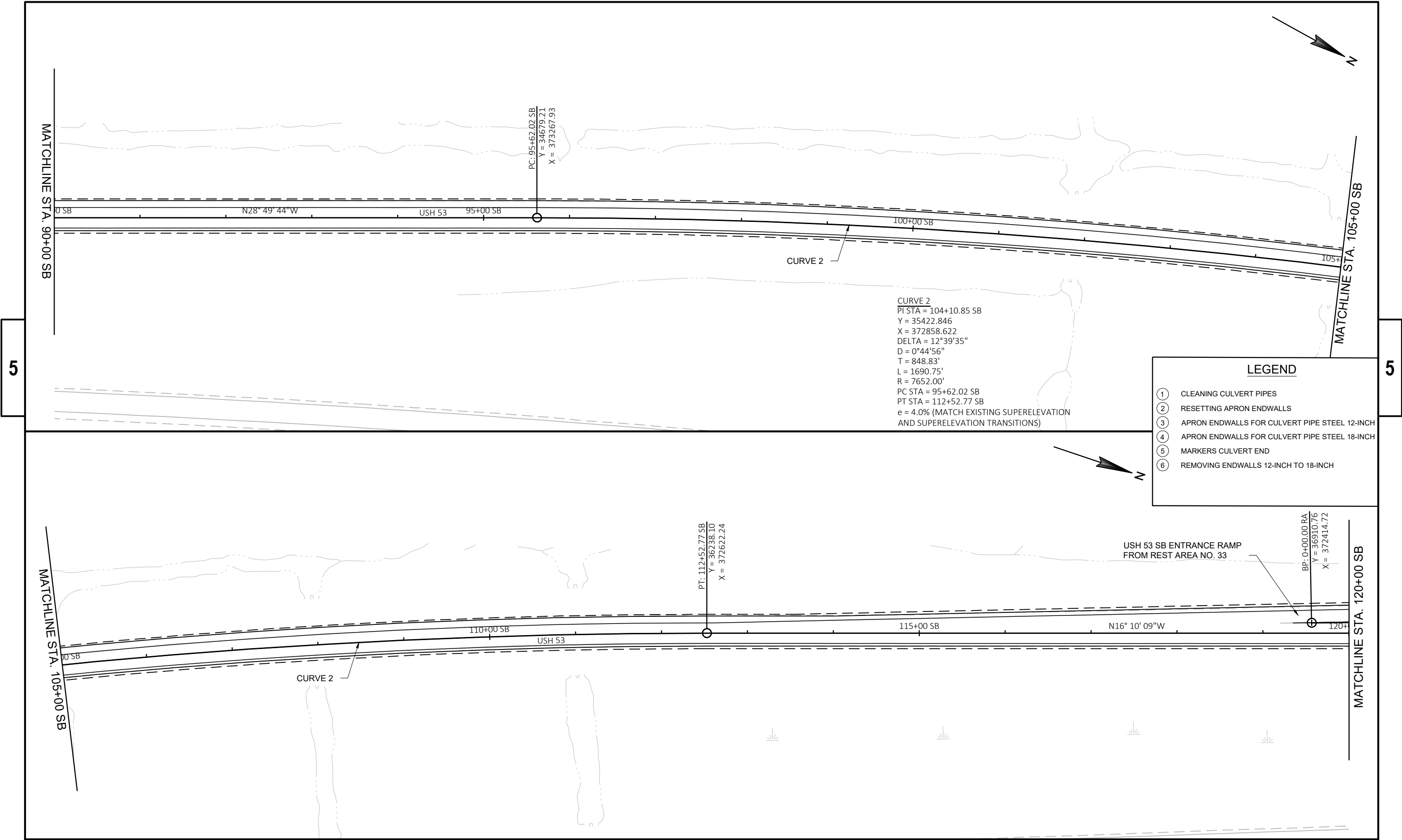


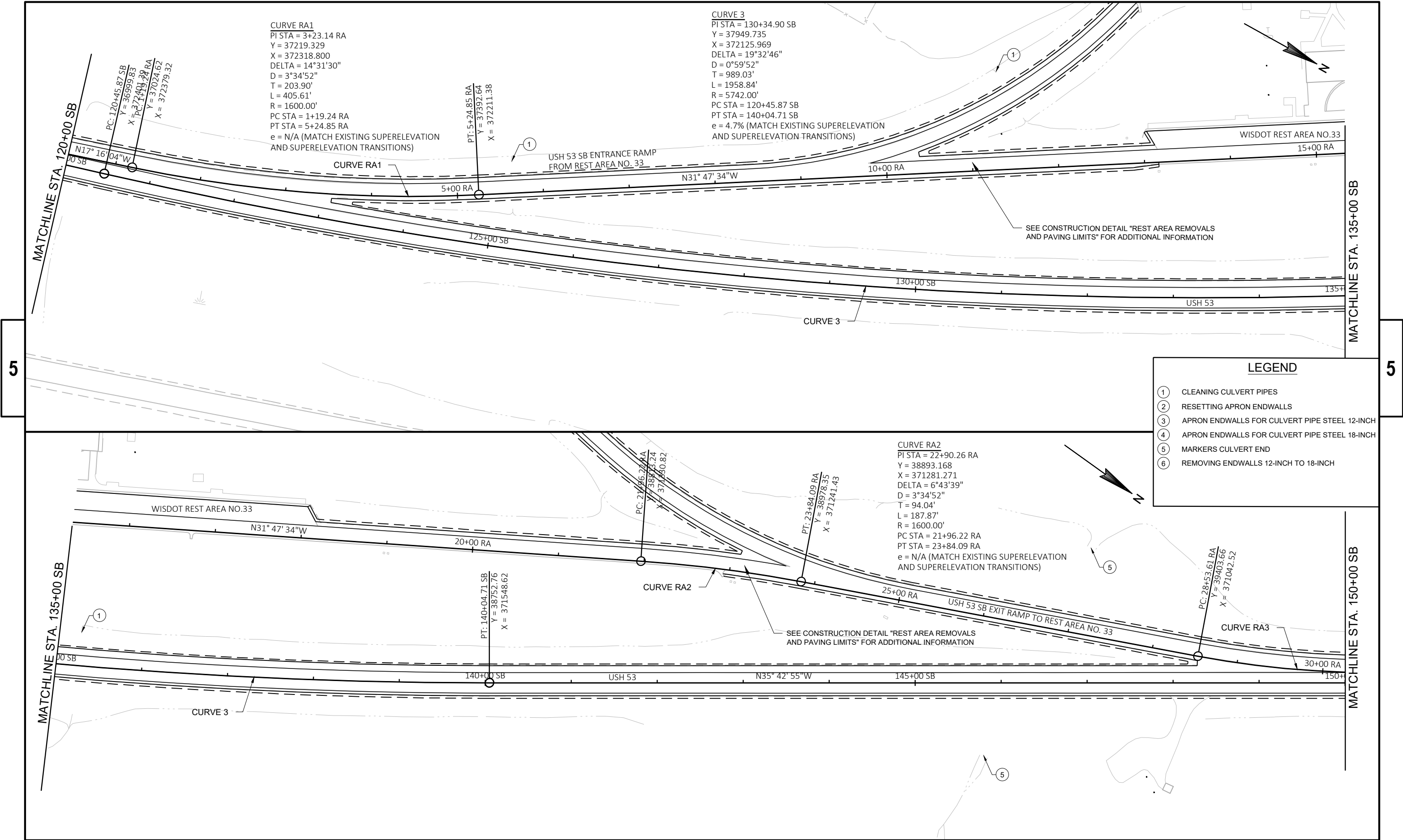
CONSTRUCTION STAGE 4 TYPICAL SECTION
(LOOKING NORTH)











CURVE RA3
PI STA = 29+56.14 RA
Y = 39496.532
X = 370999.083
DELTA = 10°39'00"
D = 5°12'31"
T = 102.53'
L = 204.47'
R = 1100.00'
PC STA = 28+53.61 RA
PT STA = 30+58.08 RA
e = N/A (MATCH EXISTING SUPERELEVATION
AND SUPERELEVATION TRANSITIONS)

EP: 30+58.08 RA
Y = 39579.78
X = 370939.23

MATCHLINE STA. 150+00 SB

MATCHLINE STA. 165+00 SB

5

5

LEGEND

- ① CLEANING CULVERT PIPES
- ② RESETTNG APRON ENDWALLS
- ③ APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH
- ④ APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH
- ⑤ MARKERS CULVERT END
- ⑥ REMOVING ENDWALLS 12-INCH TO 18-INCH

MATCHLINE STA. 165+00 SB

MATCHLINE STA. 180+00 SB

BEAVER CREEK

B-3-33
(NO WORK REQ'D)

PROJECT NO: 1196-04-77

HWY: USH 53

COUNTY: BARRON

PLAN: USH 53 (SOUTHBOUND)

SHEET

19

E

