

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DURHAM COUNTY

LOCATION: I-85 FROM THE ORANGE COUNTY LINE TO US 15/US 501
TYPE OF WORK: PAVEMENT REHABILITATION, SIGNING, AND SIGNALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5941	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45884.1.1	N/A	P.E.	
45884.3.1	4588401	CONST.	

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

2024 ROADWAY ENGLISH STANDARD DRAWINGS EFF. 01-16-2024
REV.

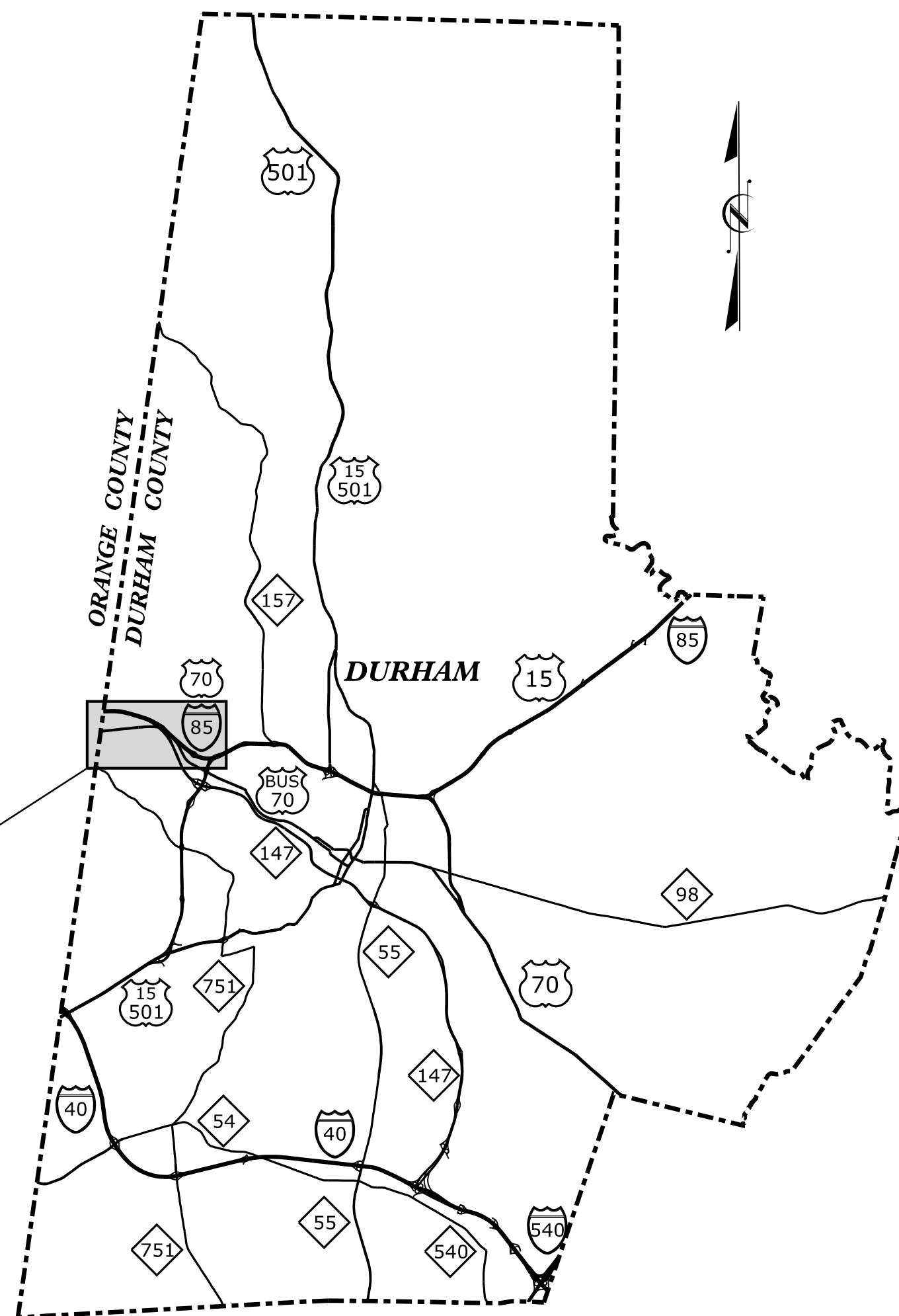
The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - Method I
560.02	Method of Shoulder Construction - Method II
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
665.01	Asphalt Shoulder Milled Rumble Strips
665.02	Limits for Asphalt Shoulder Milled Rumble Strips
DIVISION 8 - INCIDENTALS	
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
846.02	Drop Inlet Installation in Expressway Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
848.01	Concrete Sidewalk
848.06	Curb Ramp
850.01	Concrete Paved Ditches
852.01	Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
862.04	Anchoring End of Guardrail
866.01	Chain Link Fence
866.05	Glare Screen
876.01	Rip Rap in Channels and Ditches
876.02	Guide for Rip Rap at Pipe Outlets
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	Pavement Markings
1205.02	Pavement Markings
1205.03	Pavement Markings
1205.05	Pavement Markings
1205.06	Pavement Markings
1205.07	Pavement Markings
1205.08	Pavement Markings
1205.13	Pavement Markings
1250.01	Raised Pavement Markers
1261.01	Guardrail and Barrier Delineators
1261.02	Guardrail & Barrier Delineators
1262.01	Guardrail End Delineation
DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT	
1605.01	Temporary Silt Fence
1607.01	Gravel Construction Entrance
1622.01	Guide for Temporary Berms and Slope Drain
1631.01	Matting Installation
1632.03	Rock Inlet Sediment Trap Type C
1633.01	Temporary Rock Silt Check Type A
1633.02	Temporary Rock Silt Check Type B
1635.02	Rock Pipe Inlet Sediment Trap Type B
1636.01	Wattle Check

INDEX OF SHEETS

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1	TITLE SHEET
1A	MAP DETAILS
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3B-1	GUARDRAIL SUMMARY
3B-2 - 3B-3	SUMMARY OF QUANTITIES
4-8	PLAN SHEETS
TMP-1 - TMP-25	TRAFFIC MANAGEMENT PLANS
EC-1 - EC-8	EROSION CONTROL PLANS
SIGN-1 - SIGN-14	SIGNING PLANS
SIG-1.0 - SIG-3.3	SIGNAL PLANS

**PROJECT LOCATION
(SEE SHEET 1A FOR
MAP DETAILS)**

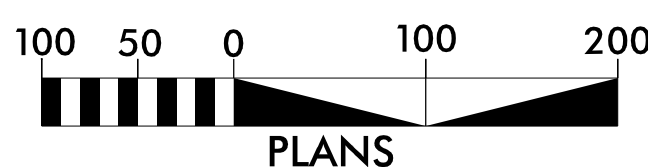


VICINITY MAP (N.T.S)

TIP PROJECT: I-5941

CONTRACT: C204954

GRAPHIC SCALES



DESIGN DATA

2024 ADT = 76,800
T = 9%
POSTED SPEED = 65 MPH
FUNC CLASS = INTERSTATE

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT I-5941 (NBL) = 2.400 MILES
TOTAL LENGTH OF TIP PROJECT I-5941 (NBL) = 2.454 MILES

Prepared for NCDOT in the Office of:



WGI (C-4434)
5640 Dillard Drive, Suite 200
Cary, North Carolina 27518
919-852-0488 www.wginc.com

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

N/A

LETTING DATE:

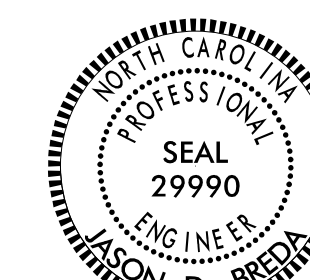
4 /16 /2024

MARK S. GALLO
NCDOT CONTACT

TIM S. HAYES, PE
PROJECT ENGINEER

JASON D. BRED A, PE
PROJECT DESIGN ENGINEER

ROADWAY DESIGN ENGINEER

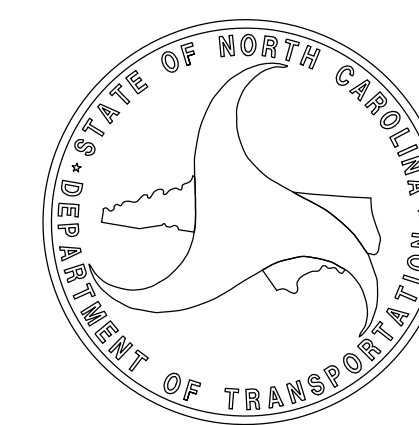


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DocuSigned by:

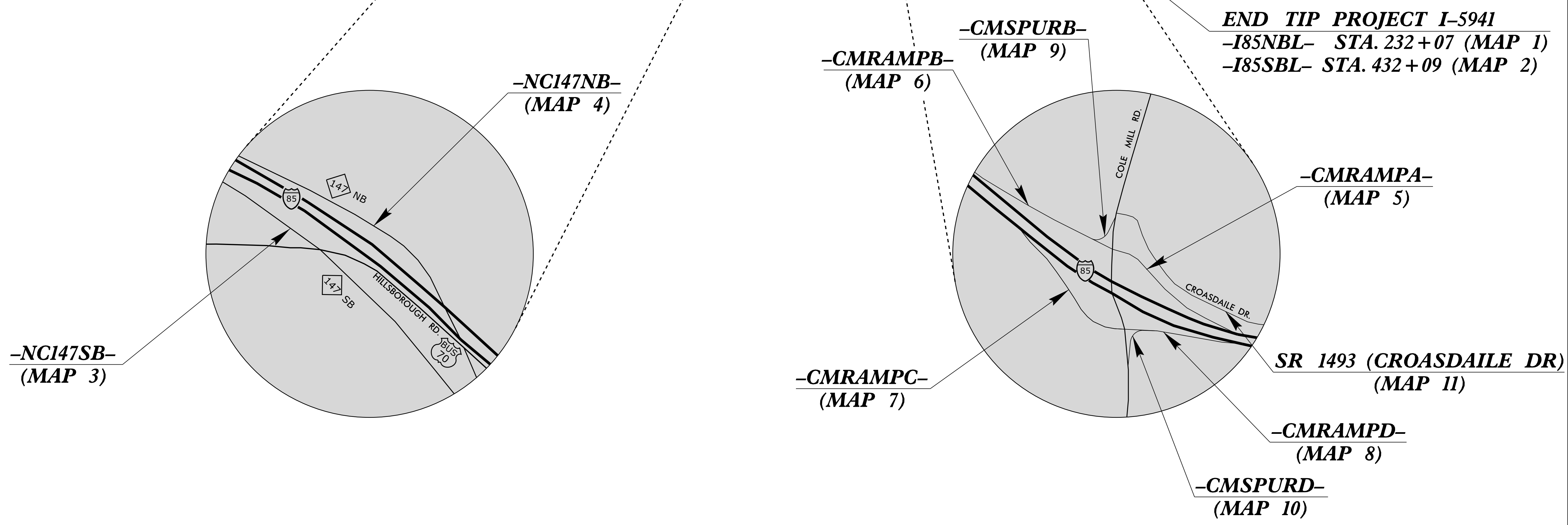
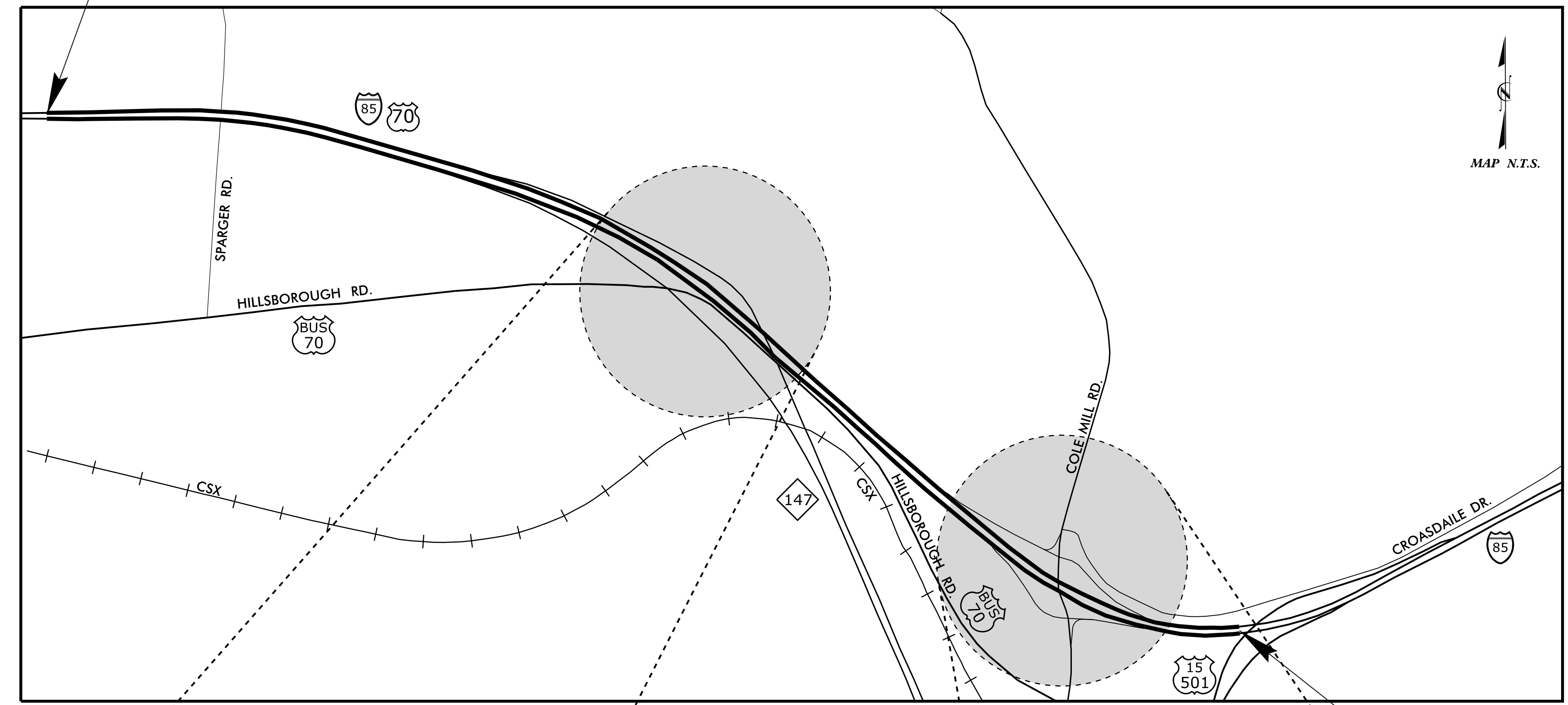
Jason Breda

P.E.

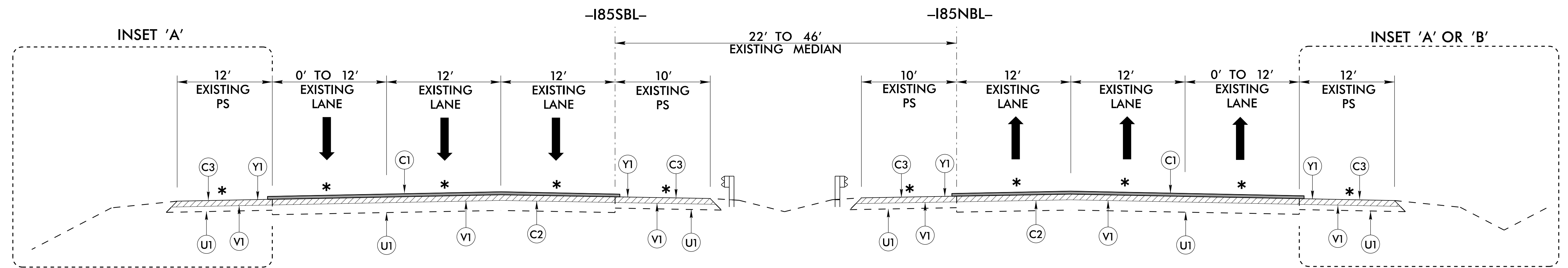


BEGIN TIP PROJECT I-5941
-I85NBL- STA. 102+50 (MAP 1)
-I85SBL- STA. 302+50 (MAP 2)

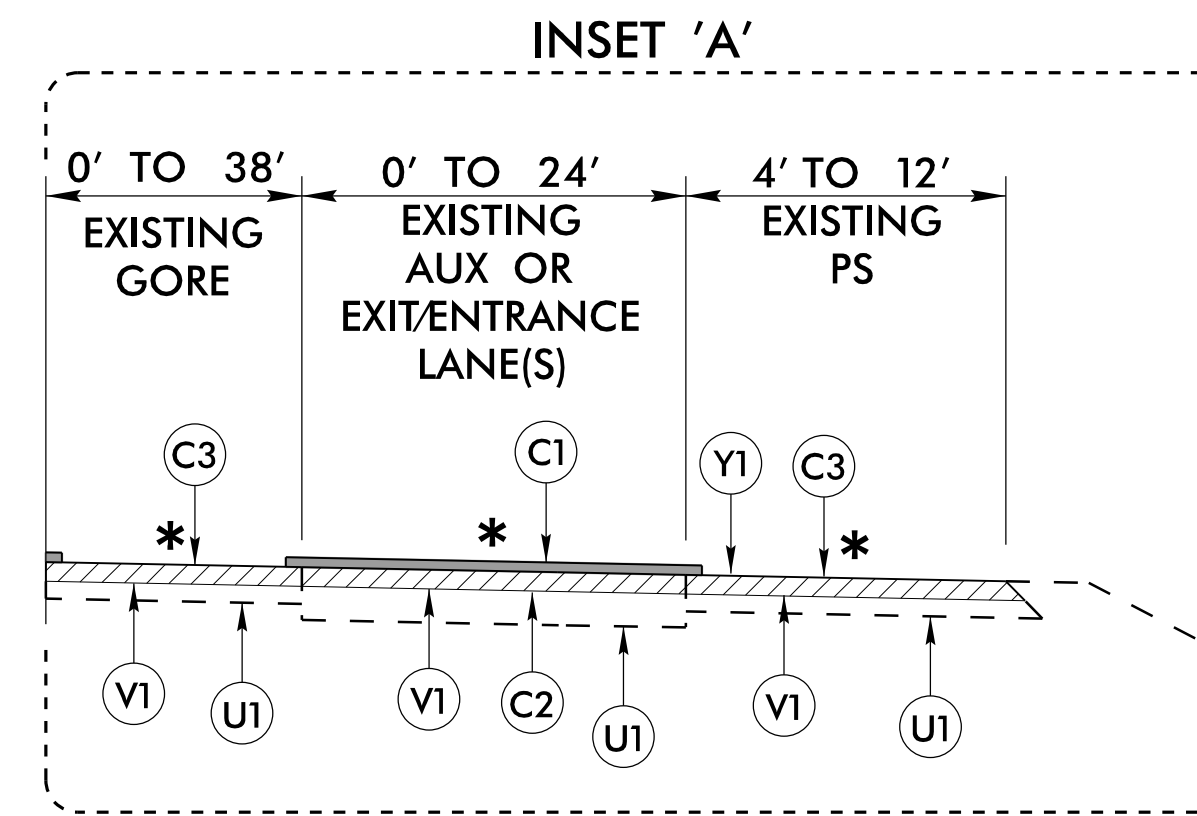
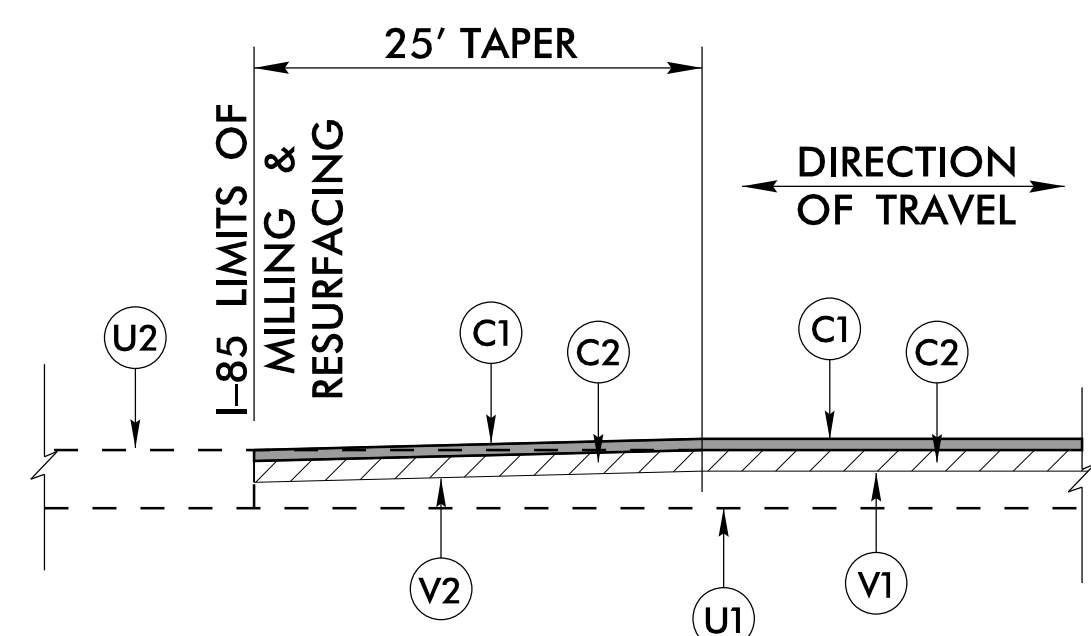
MAP DETAILS



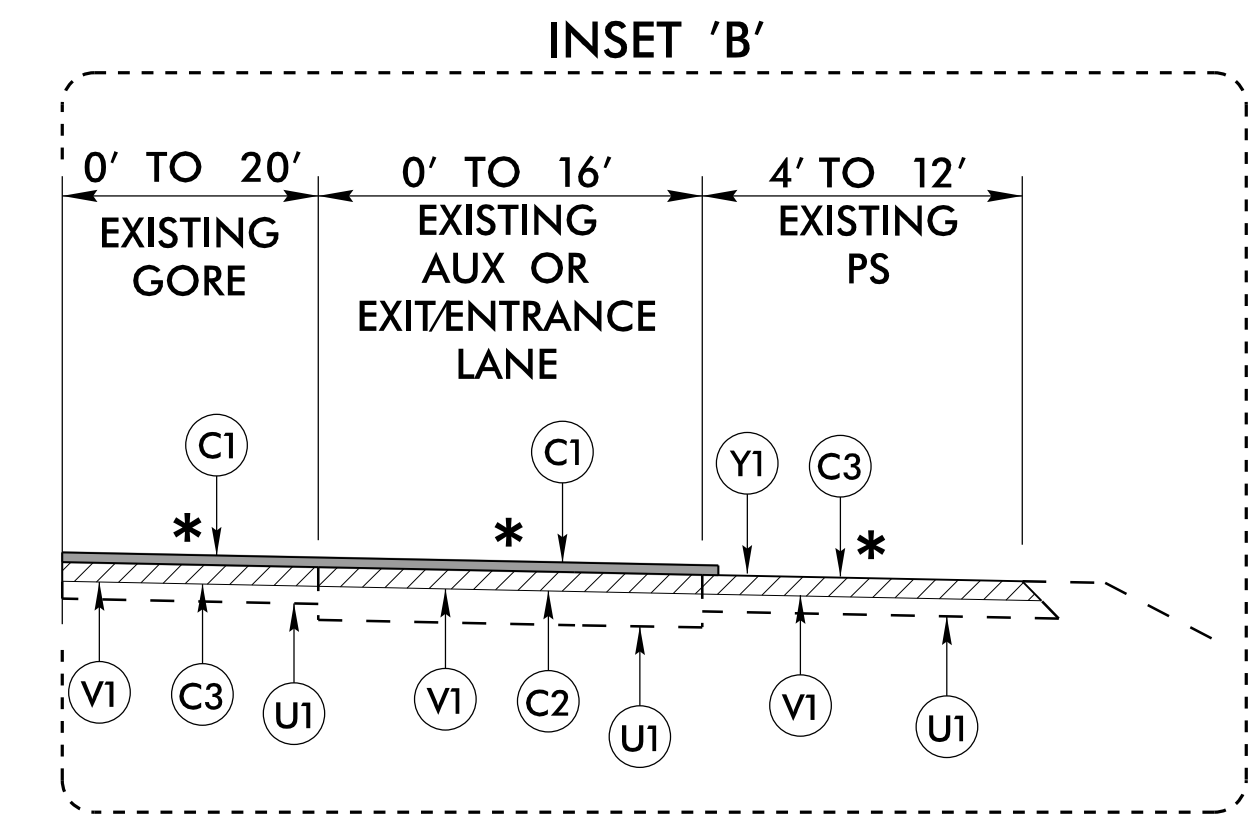
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-I85NBL- STA. 102+50 TO STA. 212+89 (BEGIN APPROACH SLAB) } (MAP 1)
 -I85NBL- STA. 215+76 (END APPROACH SLAB) TO STA. 232+07 }
 -I85SBL- STA. 302+50 TO STA. 412+77 (BEGIN APPROACH SLAB) } (MAP 2)
 -I85SBL- STA. 415+66 (END APPROACH SLAB) TO STA. 432+09 }



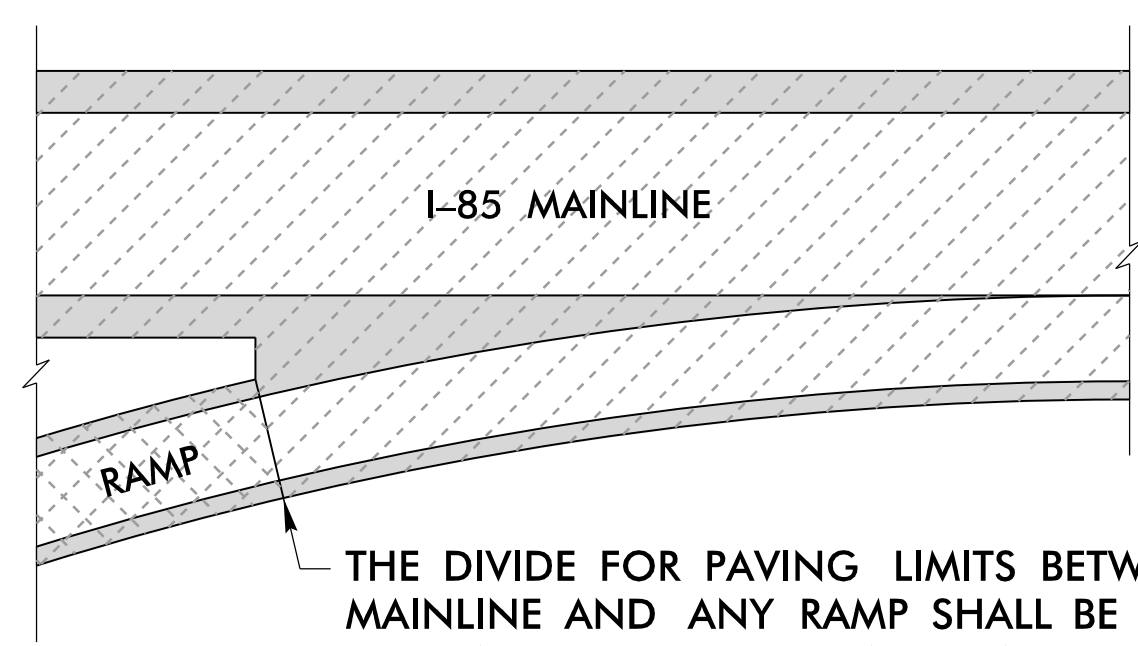
-I85NBL- STA. 126+30 TO STA. 151+96 -I85SBL- STA. 349+20 TO STA. 364+60
 -I85NBL- STA. 207+80 TO STA. 208+85 -I85SBL- STA. 389+05 TO STA. 404+26
 -I85NBL- STA. 220+48 TO STA. 232+07 -I85SBL- STA. 419+54 TO STA. 432+09



-I85NBL- STA. 201+40 TO STA. 207+80

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
T1	EARTH MATERIAL
U1	EXISTING ASPHALT PAVEMENT
U2	EXISTING OR PROP. PAVEMENT OR BRIDGE APPROACH SLAB
V1	MILLING EXISTING ASPHALT, 2" DEPTH
V2	MILLING EXISTING ASPHALT, VAR. DEPTH (2" TO 2 5/8")
Y1	RUMBLE STRIPS

I-85 MAINLINE MAP QUANTITIES
 RAMP MAP QUANTITIES



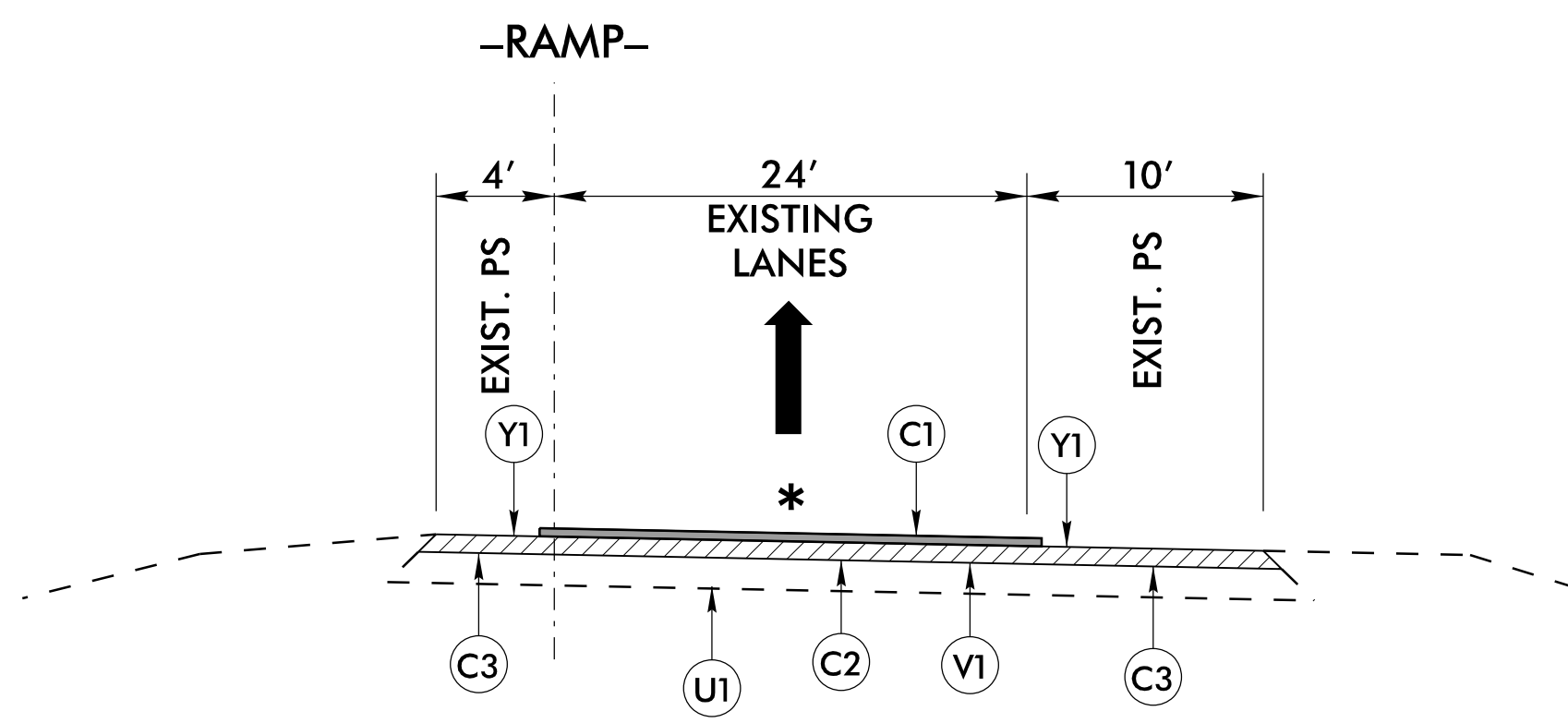
NOTES

- TYPICAL SECTION STATIONS (STA.) SHOWN ARE APPROXIMATE AND MAY ADJUST AS DETERMINED BY THE ENGINEER.
- MILLED I-85 TRAVEL LANES AND PAVED SHOULDERS SHALL BE RESURFACED WITH ASPHALT CONCRETE SURFACE COURSE BY THE END OF EACH WORK DAY.
- ULTRA-THIN BONDED WEARING COURSE SHALL BE EXTENDED 6" OUTSIDE OF TRAVEL LANES.
- PAVED SHOULDER WIDTHS SHOWN ARE WIDER AT GUARDRAIL, CONC. BARRIER, CONC. GUTTER, AND BRIDGE LOCATIONS. MILL AND RESURFACE THE ENTIRE PAVED SHOULDER WIDTH AT THESE LOCATIONS.
- NEW GUARDRAIL UNIFORM OFFSETS FROM TRAVEL LANES SHALL MATCH EXISTING, EXCEPT AS DETERMINED BY THE ENGINEER.

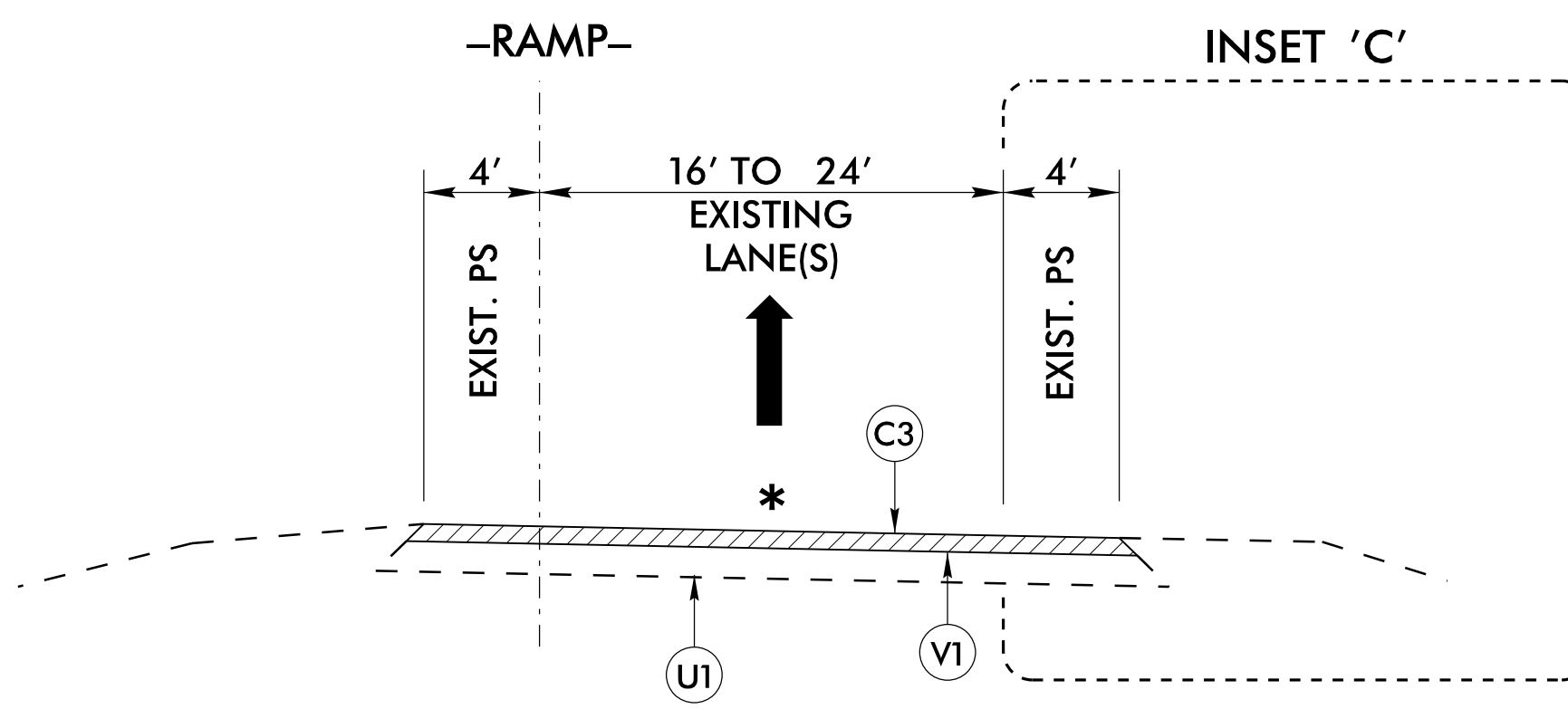
* MATCH EXIST. CROSS SLOPES

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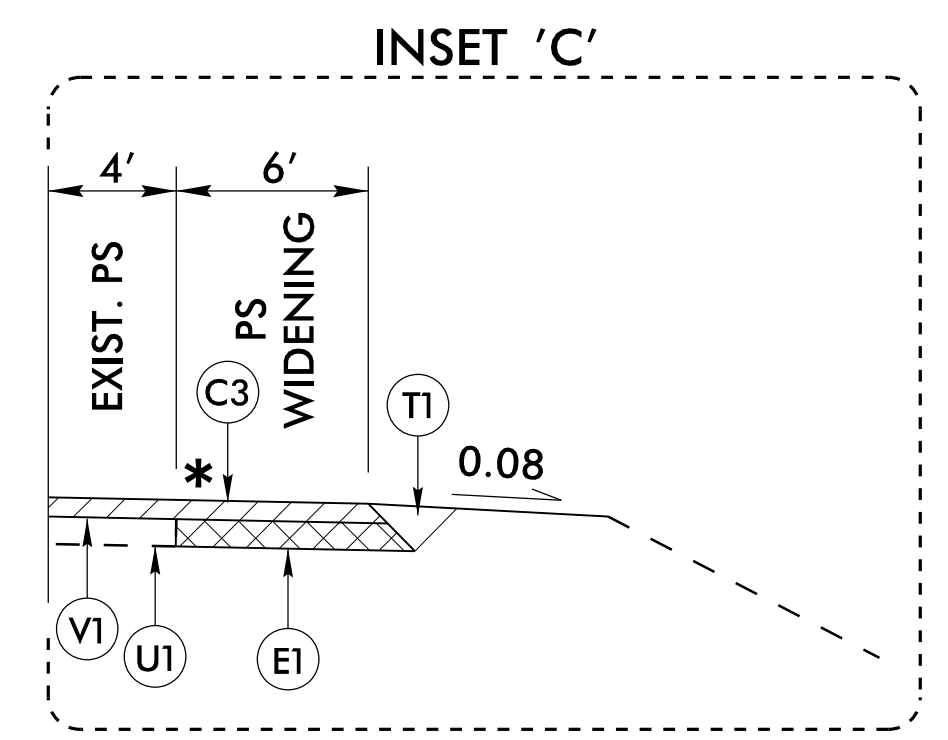
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



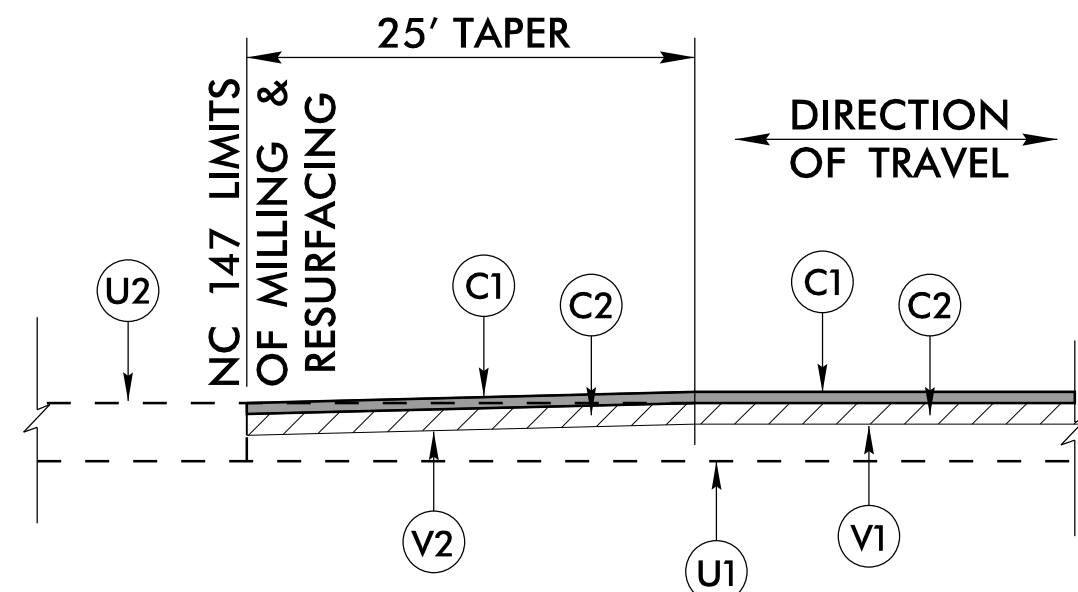
TYPICAL SECTION NO. 2
 USE TYPICAL SECTION NO. 2 AS FOLLOWS:
 -NC147SB- STA. 10+00 TO STA. 22+75 (MAP 3)
 -NC147NB- STA. 12+21 TO STA. 21+85 (MAP 4)



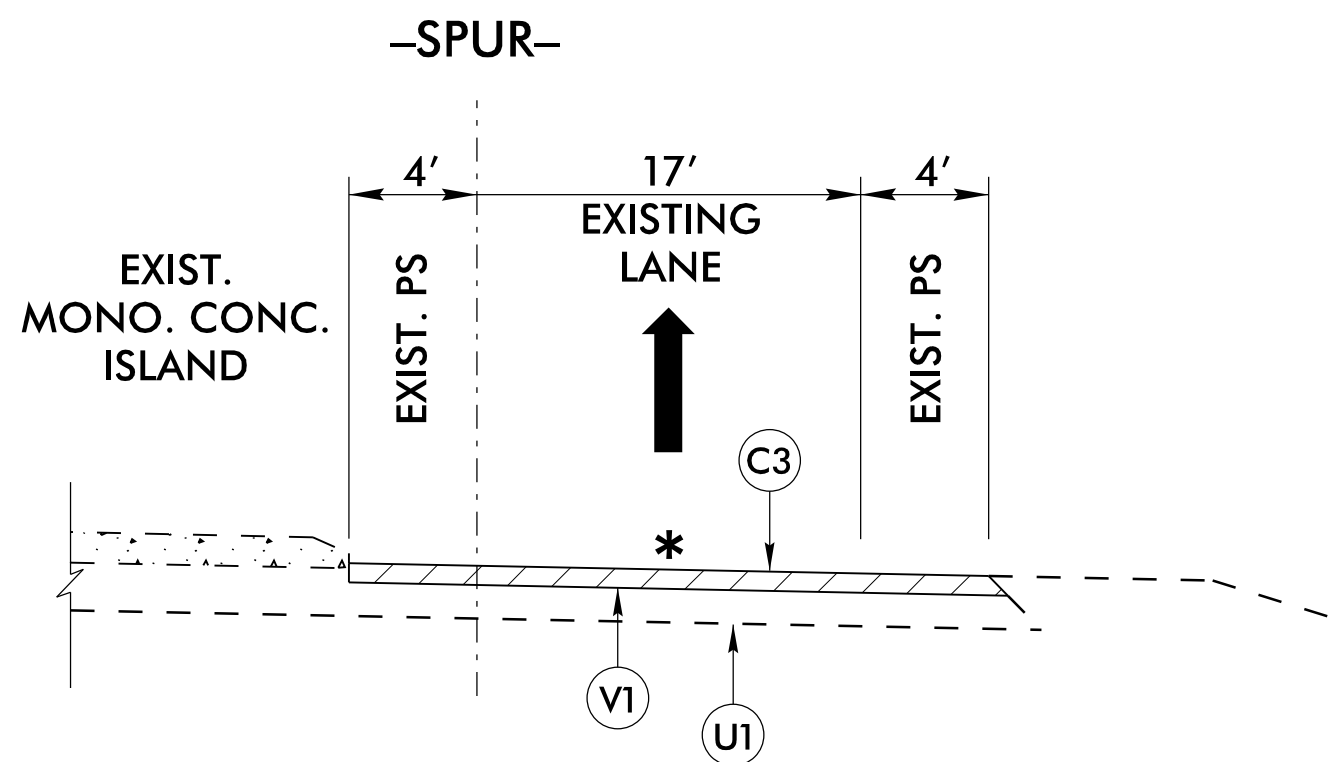
TYPICAL SECTION NO. 3
 USE TYPICAL SECTION NO. 3 AS FOLLOWS:
 -CMRAMPA- STA. 10+00 TO STA. 16+29 (MAP 5)
 -CMRAMPB- STA. 10+45 TO STA. 18+13 (MAP 6)
 -CMRAMPC- STA. 10+00 TO STA. 17+31 (MAP 7)
 -CMRAMPD- STA. 10+37 TO STA. 14+77 (MAP 8)



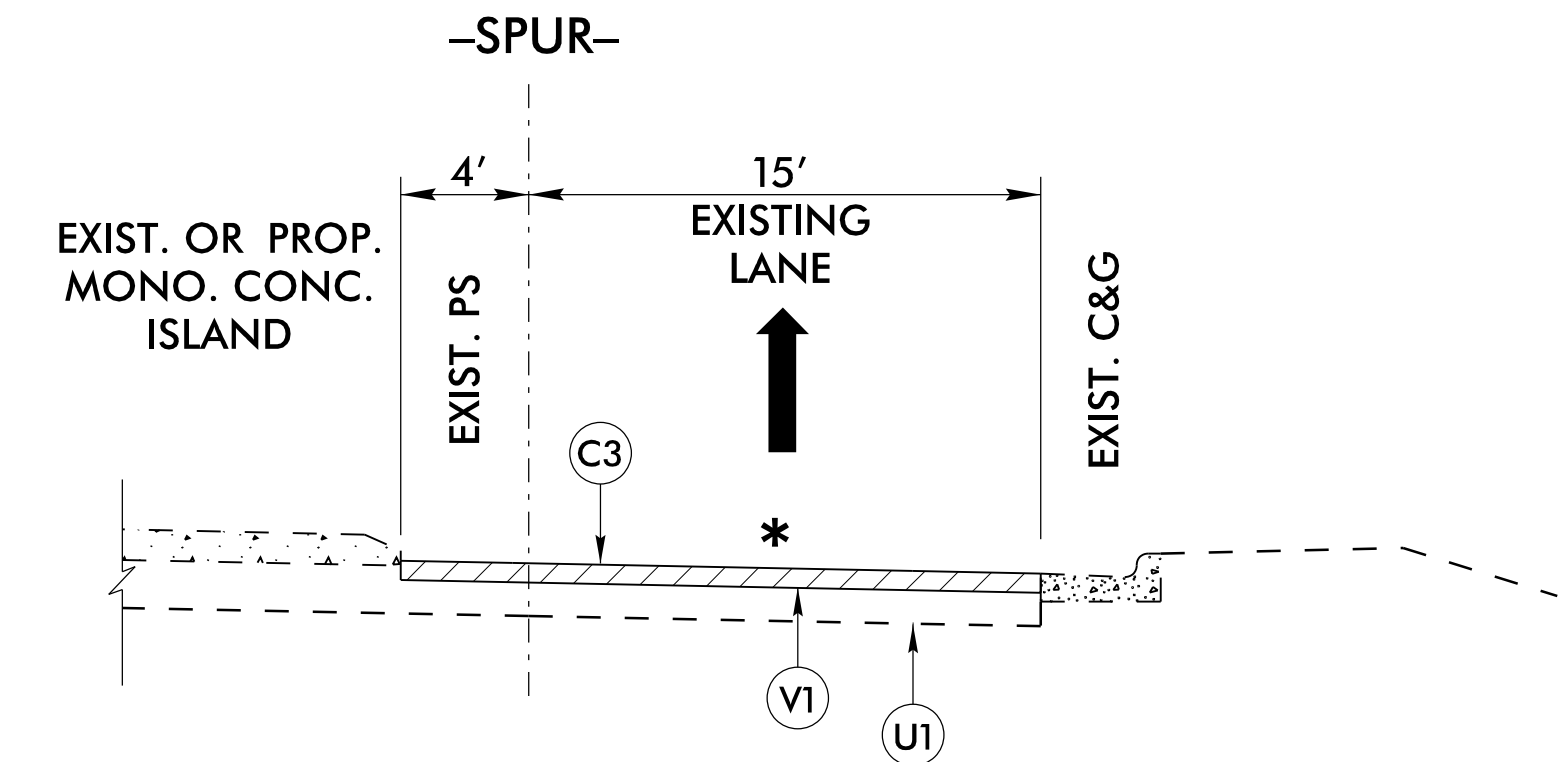
USE INSET 'C' AS FOLLOWS:
 -CMRAMPB- STA. 11+61 TO STA. 15+50 (RT)
 -CMRAMPD- STA. 11+22 TO STA. 14+75 (RT)



ULTRA-THIN BONDED WEARING COURSE TIE-IN DETAIL
 USE AT NC 147 BRIDGE TIE-INS



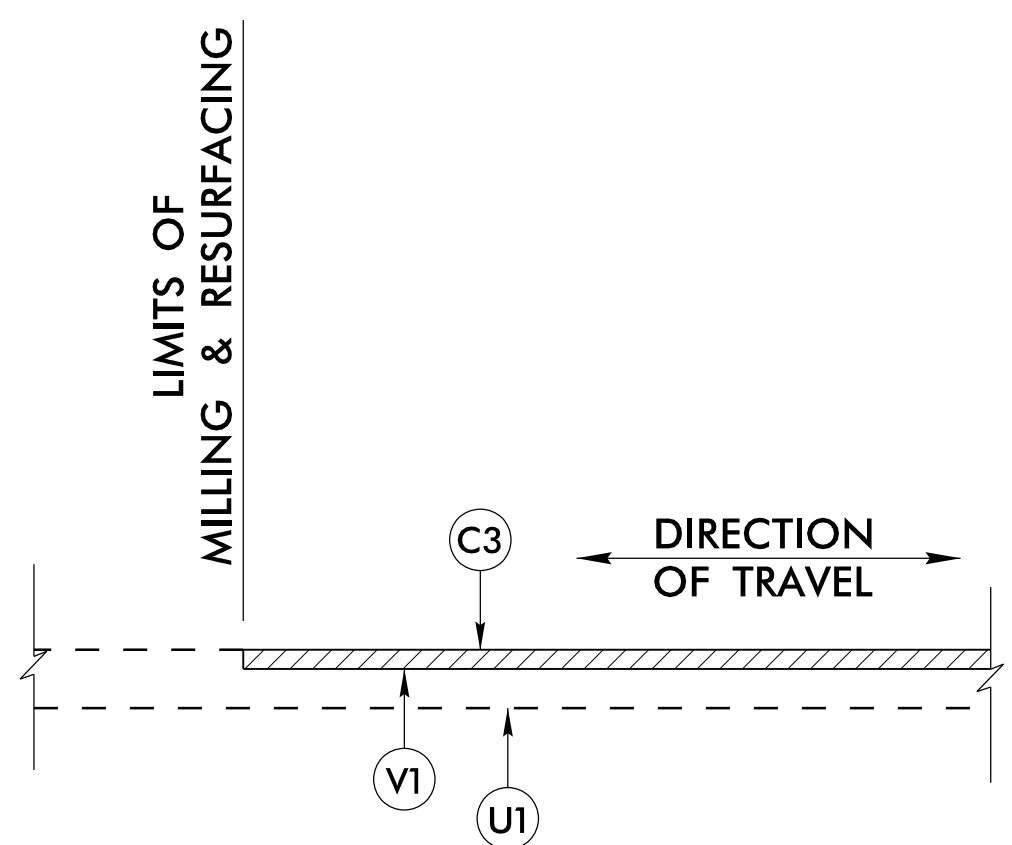
TYPICAL SECTION NO. 4
 USE TYPICAL SECTION NO. 4 AS FOLLOWS:
 -CMSPURB- STA. 10+29 TO STA. 11+30 (MAP 9)



TYPICAL SECTION NO. 5
 USE TYPICAL SECTION NO. 5 AS FOLLOWS:
 -CMSPURD- STA. 10+29 TO STA. 11+85 (MAP 10)

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
T1	EARTH MATERIAL
U1	EXISTING ASPHALT PAVEMENT
U2	EXISTING PAVEMENT OR BRIDGE APPROACH SLAB
V1	MILLING EXISTING ASPHALT, 2" DEPTH
V2	MILLING EXISTING ASPHALT, VAR. DEPTH (2" TO 2 5/8")
Y1	RUMBLE STRIPS

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



SURFACE COURSE TIE-IN DETAIL
 USE AT ALL COLE MILL RD RAMP AND SPUR TIE-INS

NOTES

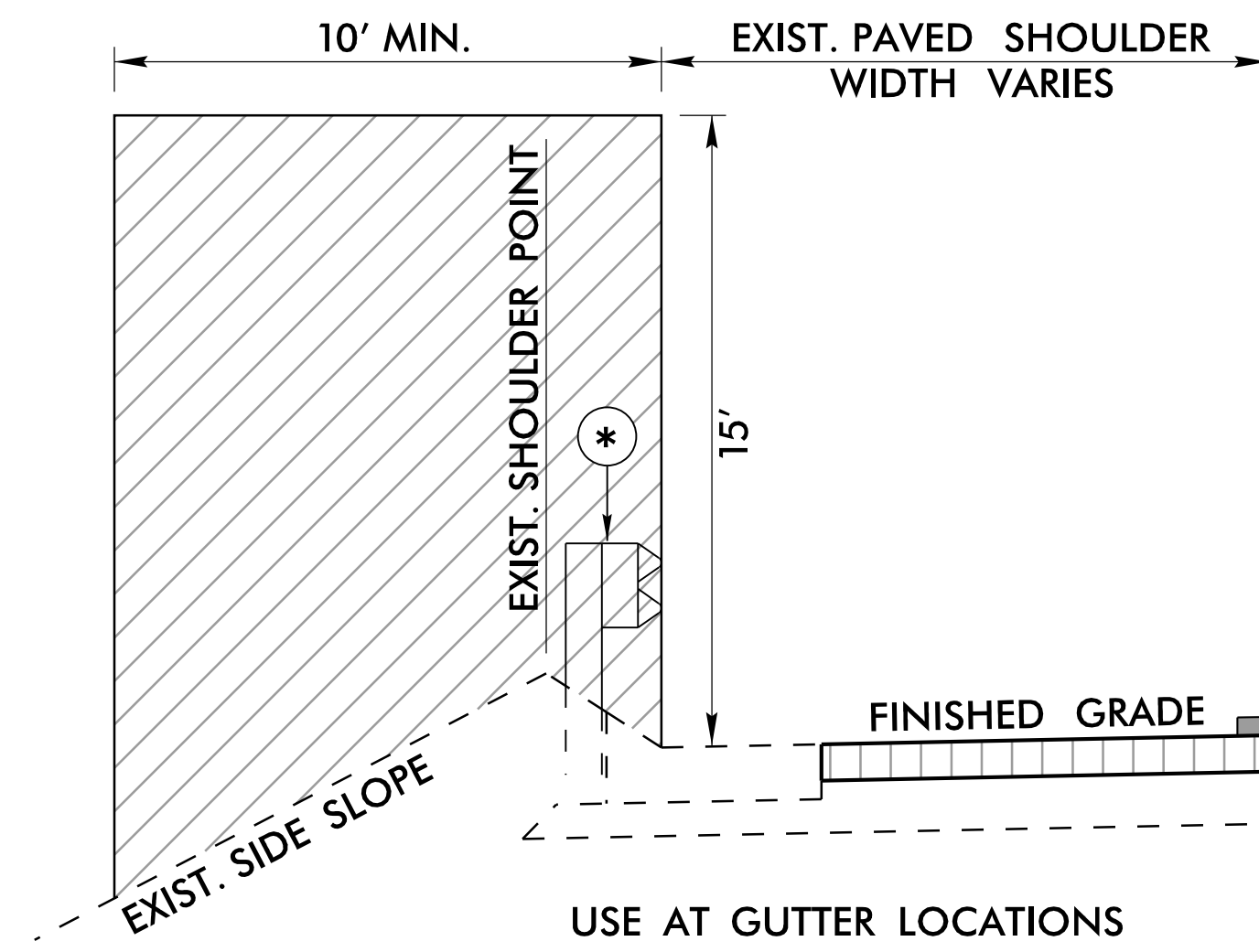
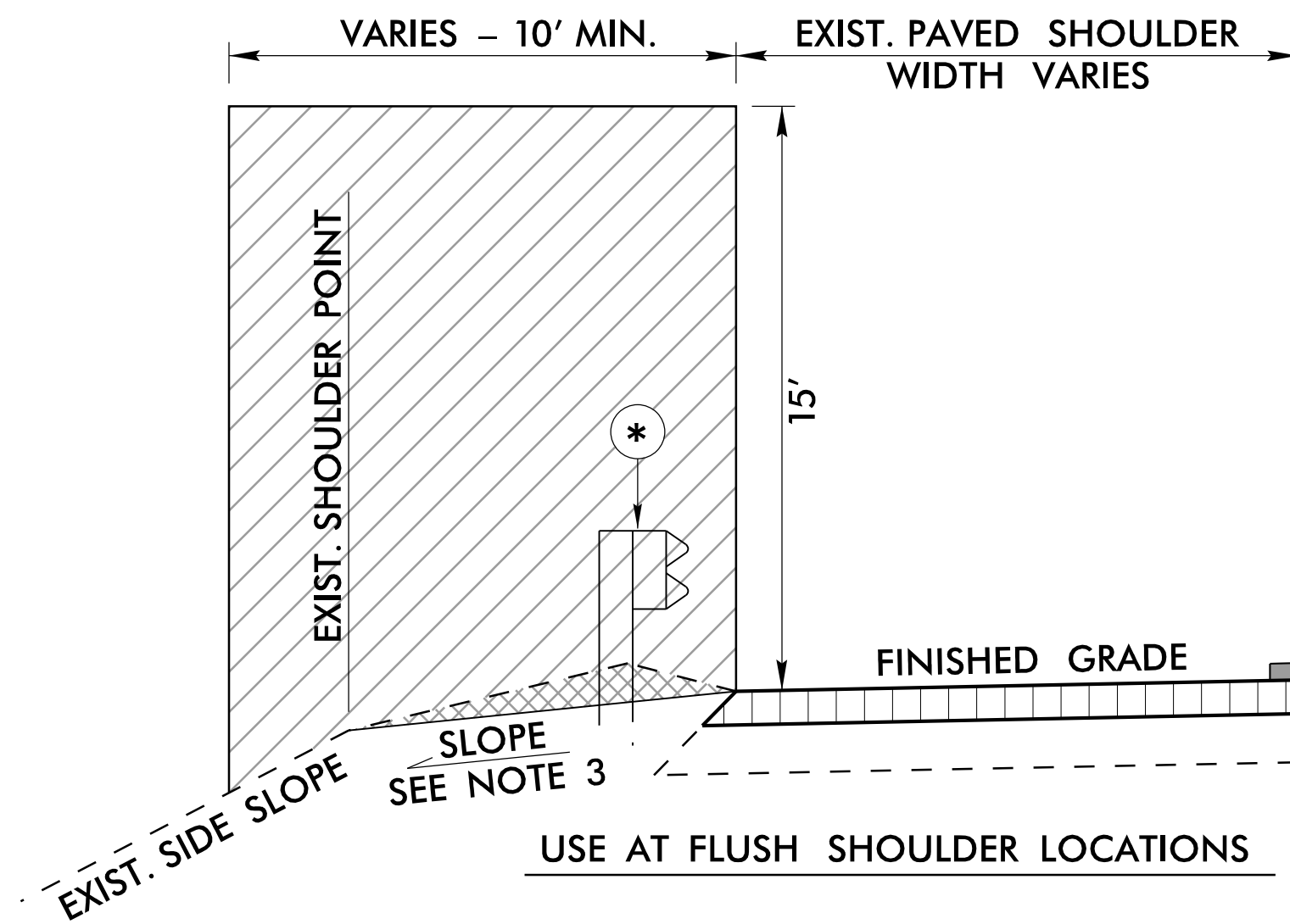
1. TYPICAL SECTION STATIONS (STA.) SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS DETERMINED BY THE ENGINEER.
2. ALL MILLED RAMP AND SPUR TRAVEL LANES AND SHOULDERS SHALL BE RESURFACED WITH ASPHALT CONCRETE SURFACE COURSE BY THE END OF EACH WORK DAY.
3. ULTRA-THIN BONDED WEARING COURSE SHALL BE EXTENDED 6" OUTSIDE OF TRAVEL LANES.
4. PAVED SHOULDER WIDTHS SHOWN ARE WIDER AT GUARDRAIL, CONC. BARRIER, CONC. GUTTER, AND BRIDGE LOCATIONS. MILL AND RESURFACE THE ENTIRE PAVED SHOULDER WIDTH AT THESE LOCATIONS.
5. NEW GUARDRAIL UNIFORM OFFSETS FROM TRAVEL LANES SHALL MATCH EXISTING, EXCEPT AS DETERMINED BY THE ENGINEER.

* MATCH EXIST. CROSS SLOPES

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GUARDRAIL REPLACEMENT, CLEARING, AND SHOULDER RECONSTRUCTION – DETAIL A

N.T.S.



* REMOVE AND REPLACE EXISTING GUARDRAIL

- REMOVE ALL VEGETATION (SEE NOTE 2)
- REMOVE EXCESS EARTH MATERIAL (SEE NOTE 3)

USE DETAIL A AS FOLLOWS:

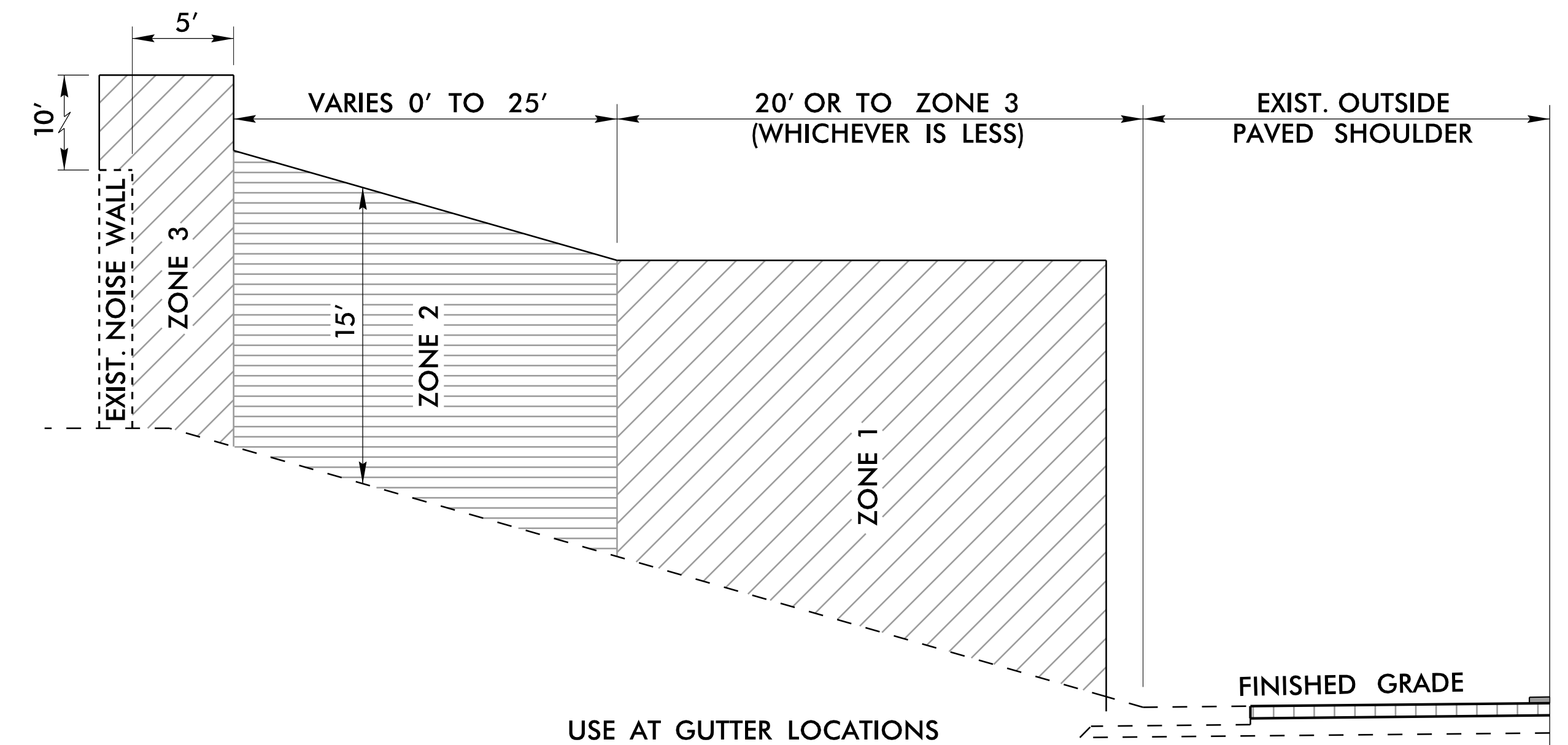
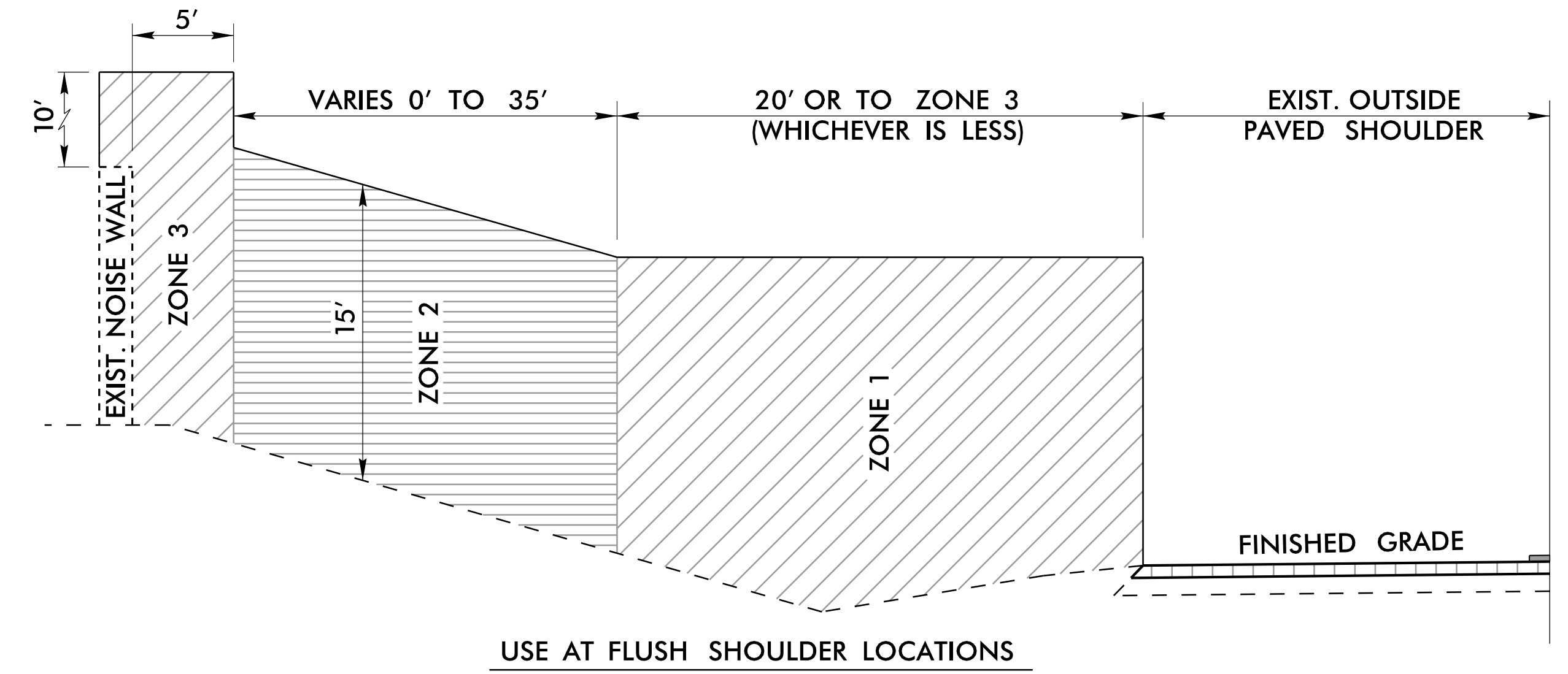
ALL GUARDRAIL REPLACEMENT LOCATIONS INCLUDING MEDIAN AND OUTSIDE SHOULDERS (SEE GUARDRAIL SUMMARY SHEET).

NOTES – DETAIL A

- MATCH EXISTING OFFSETS FROM TRAVEL LANES TO FACE OF GUARDRAIL, EXCEPT AS DETERMINED BY THE ENGINEER. MATCH AND RESTORE EXISTING MEDIAN GUARDRAIL OPENINGS.
- REMOVE ALL EXISTING VEGETATION INCLUDING TREES, SHRUBS, AND OVERHANGING LIMBS WITHIN THE REMOVAL LIMITS. FILL, COMPACT, AND GRADE SMOOTH ANY GROUND VOIDS WITH EXCESS EARTH MATERIAL FROM RAMP WIDENING AREAS SHOWN IN THE TYPICAL SECTIONS. NO PAYMENT WILL BE MADE FOR THIS WORK AND WILL BE INCIDENTAL TO "CLEARING AND GRUBBING". ANY ADDITIONAL EARTH MATERIAL REQUIRED TO FILL GROUND VOIDS WILL BE PAID FOR UNDER "BORROW EXCAVATION".
- GRADE EARTH SHOULDER SLOPES TO DRAIN IN ACCORDANCE WITH STANDARD DRAWING NO. 560.01 AND 560.02. THIS WORK WILL BE PAID FOR UNDER "SHOULDER RECONSTRUCTION".
- RESTORE DISTURBED SIDE SLOPES AND DITCHES TO EXISTING GRADE. REPLACE ANY CONCRETE ITEM OR RIP RAP DITCH LINING THAT IS DAMAGED DURING CONSTRUCTION. NO PAYMENT WILL BE MADE FOR THIS WORK AND WILL BE INCIDENTAL TO "CLEARING AND GRUBBING".
- INSTALL EROSION CONTROL DEVICES PER THE EROSION CONTROL PLANS.

TYPICAL VEGETATION REMOVAL AT NOISE WALLS – DETAIL B

N.T.S.



- REMOVE ALL VEGETATION – ZONES 1 AND 3 (SEE NOTE 1)
- REMOVE LIMBS ONLY – ZONE 2 (SEE NOTE 2)

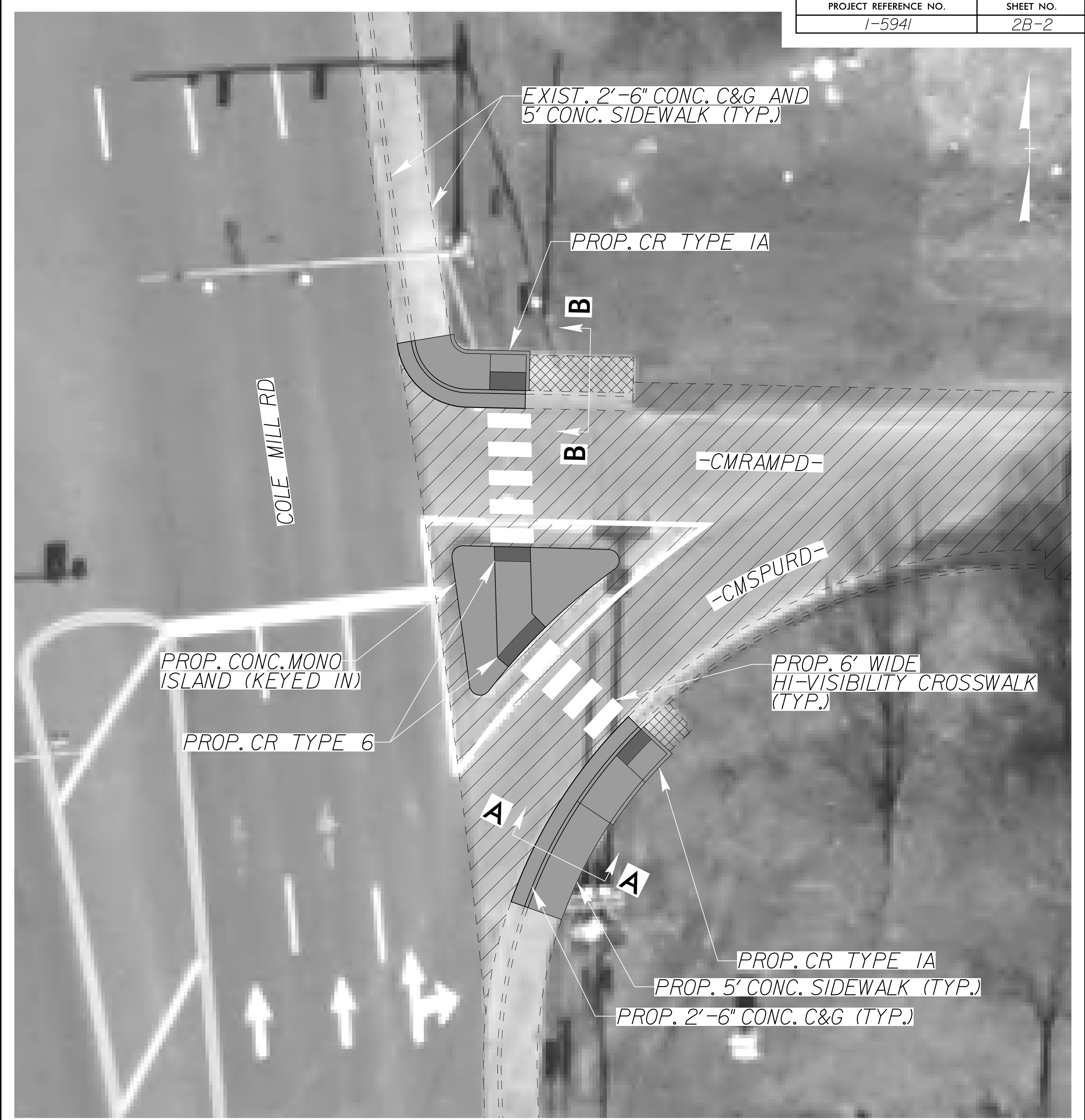
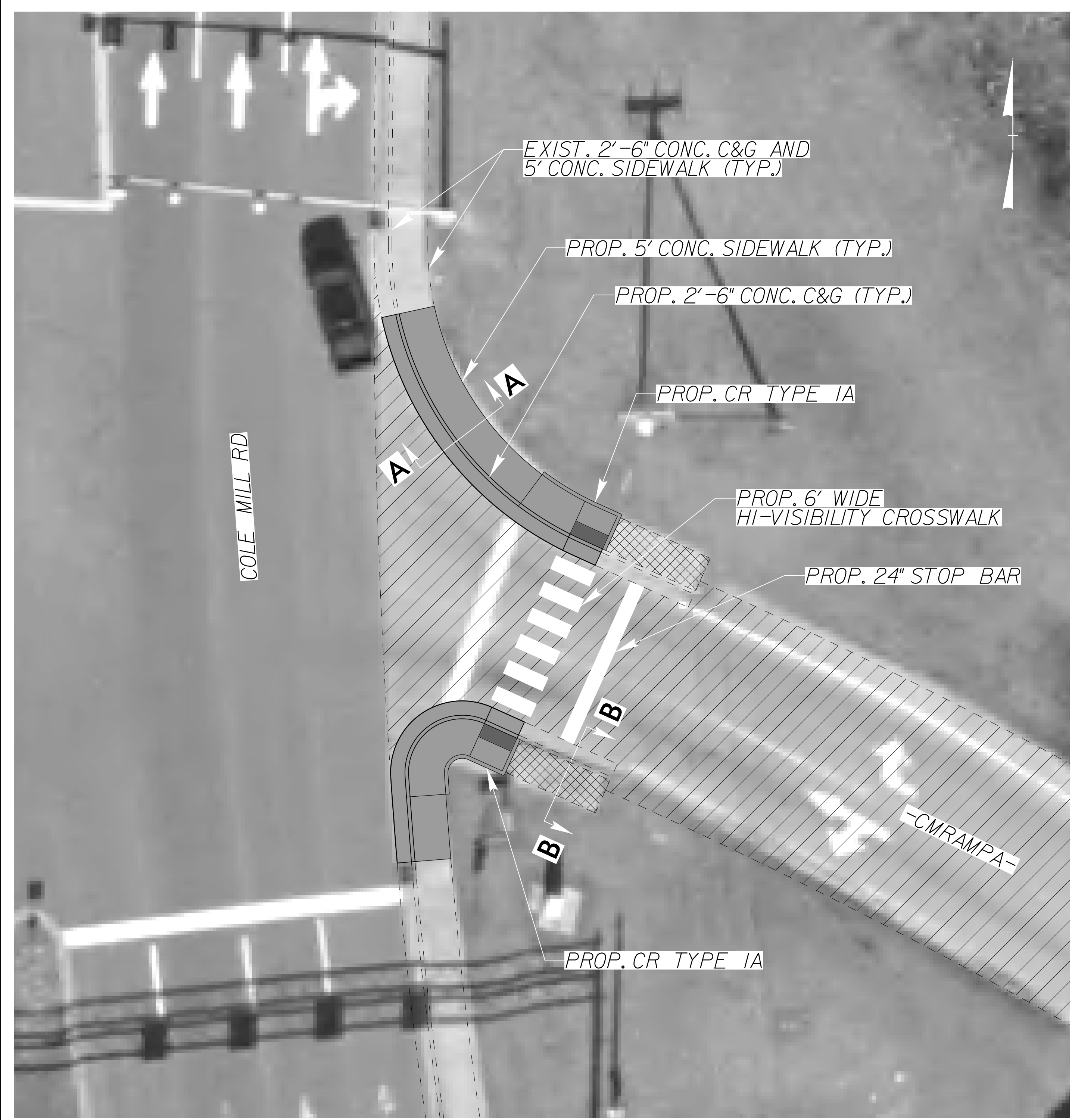
USE DETAIL B AS FOLLOWS:

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-I85SBL- STA. 326+00 TO STA. 352+00 (LT)

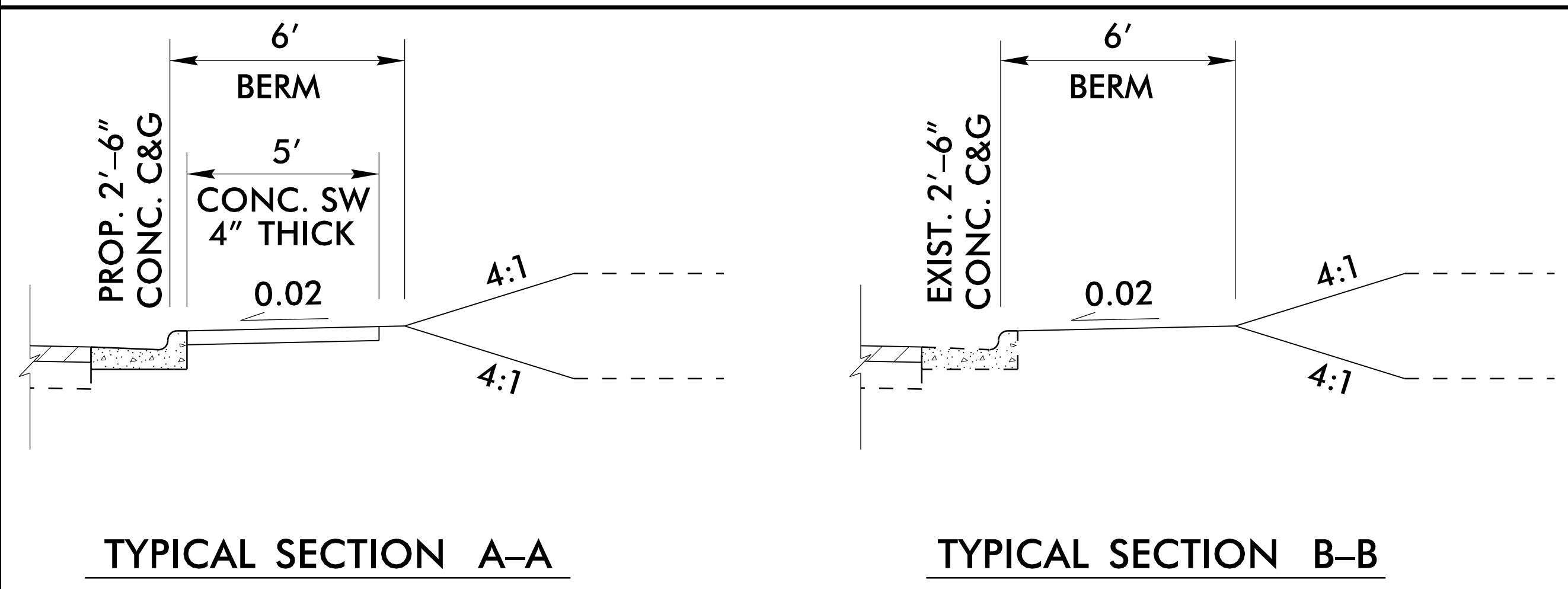
NOTES – DETAIL B

- REMOVE ALL EXISTING VEGETATION INCLUDING TREES, SHRUBS, AND OVERHANGING LIMBS WITHIN THE REMOVAL LIMITS. FILL, COMPACT, AND GRADE SMOOTH ANY GROUND VOIDS WITH EXCESS EARTH MATERIAL FROM RAMP WIDENING AREAS SHOWN IN THE TYPICAL SECTIONS. NO PAYMENT WILL BE MADE FOR THIS WORK AND WILL BE INCIDENTAL TO "CLEARING AND GRUBBING". ANY ADDITIONAL EARTH MATERIAL REQUIRED TO FILL GROUND VOIDS WILL BE PAID FOR UNDER "BORROW EXCAVATION".
- REMOVE LIMBS FROM EXISTING TREES ONLY, FROM EXISTING GROUND TO A HEIGHT OF 15' ABOVE GROUND. THIS WORK WILL BE PAID FOR UNDER "TREE TRIMMING".
- WHERE EXISTING GUARDRAIL IS REPLACED IN FRONT OF NOISE WALLS, GRADE FLUSH SHOULDERS PER DETAIL A.
- RESTORE DISTURBED SIDE SLOPES AND DITCHES TO EXISTING GRADE. REPLACE ANY CONCRETE ITEM OR RIP RAP DITCH LINING THAT IS DAMAGED DURING CONSTRUCTION. NO PAYMENT WILL BE MADE FOR THIS WORK AND WILL BE INCIDENTAL TO "CLEARING AND GRUBBING" AND "TREE TRIMMING".
- INSTALL EROSION CONTROL DEVICES PER THE EROSION CONTROL PLANS.

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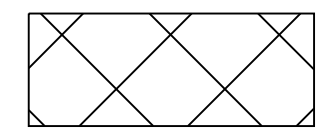
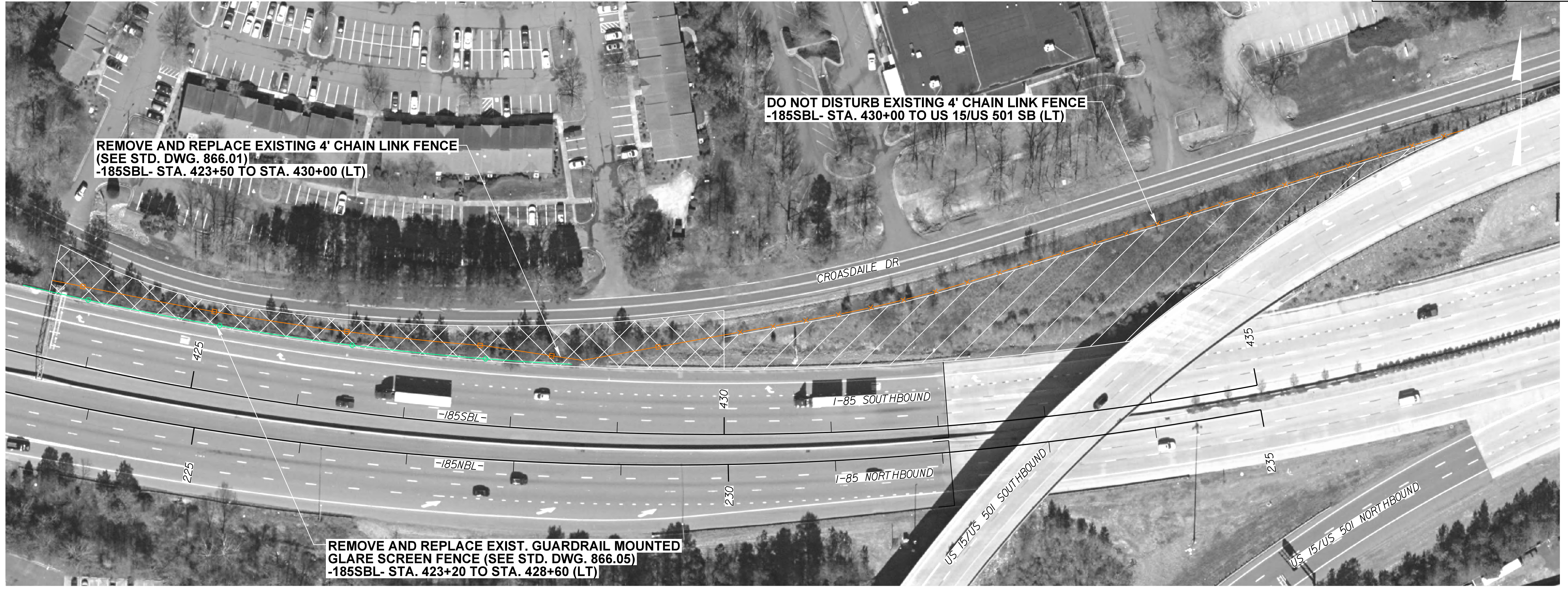


NOTES

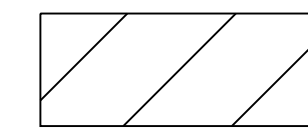
- SAWCUT, REMOVE, AND REPLACE ALL CONCRETE ITEMS IN EXISTING LOCATION TO THE NEAREST JOINT. BACKFILL, SEED AND MULCH ALL DISTURBED AREAS.
- PLACE 24" WHITE THERMOPLASTIC STOP BAR IN NEW LOCATION WHERE SHOWN AND PLACE 6' WIDE, 24" WHITE THERMOPLASTIC HI-VISIBILITY CROSSWALK PER ROADWAY STANDARD DRAWING 1205.07. REPLACE ALL OTHER PAVEMENT MARKINGS IN EXISTING LOCATION.

LEGEND

	REMOVE AND REPLACE CONCRETE ITEMS. THIS WORK WILL BE PAID FOR UNDER THE FOLLOWING:
	"REMOVE AND REPLACE SIDEWALK" "REMOVE AND REPLACE CURB AND GUTTER"
	"REMOVE AND REPLACE ISLAND" "REMOVE AND REPLACE CONCRETE CURB RAMPS"
	REMOVE EXISTING SIDEWALK, BACKFILL, AND GRADE PER TYPICAL SECTION B-B. THIS WORK WILL BE PAID FOR UNDER "REMOVE SIDEWALK".
	PROPOSED MILLING AND RESURFACING



ZONE 4 VEGETATION REMOVAL LIMITS
-185SBL- STA. 423+50 TO STA. 430+00 (LT)



ZONE 5 VEGETATION REMOVAL LIMITS
-185SBL- STA. 430+00 TO US 15/US 501 SB (LT)

ZONE 4 NOTES

1. REMOVE ALL EXISTING VEGETATION INCLUDING TREES, SHRUBS, AND OVERHANGING LIMBS BETWEEN THE I-85 SOUTHBOUND EDGE OF PAVEMENT AND THE CROASDAILE DRIVE EDGE OF PAVEMENT. FILL, COMPACT, AND GRADE SMOOTH ANY GROUND VOIDS WITH EXCESS EARTH MATERIAL FROM RAMP WIDENING AREAS SHOWN IN THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR UNDER "CLEARING AND GRUBBING". ANY ADDITIONAL EARTH MATERIAL REQUIRED TO FILL GROUND VOIDS WILL BE PAID FOR UNDER "BORROW EXCAVATION".
2. REMOVE AND REPLACE EXISTING I-85 SOUTHBOUND GUARDRAIL PER DETAIL A. DO NOT DISTURB EXISTING GUARDRAIL ALONG CROASDAILE DRIVE.
3. RESTORE DISTURBED SIDE SLOPES AND DITCHES TO EXISTING GRADE. REPLACE ANY CONCRETE ITEM OR RIP RAP DITCH LINING THAT IS DAMAGED DURING CONSTRUCTION. NO PAYMENT WILL BE MADE FOR THIS WORK AND IS CONSIDERED INCIDENTAL TO "CLEARING AND GRUBBING".
4. INSTALL EROSION CONTROL DEVICES PER THE EROSION CONTROL PLANS.
5. WORK IN ZONE 4 IS INCLUDED IN MAP 2 PAY ITEMS.

ZONE 5 NOTES

1. REMOVE ALL EXISTING VEGETATION INCLUDING TREES, SHRUBS, AND OVERHANGING LIMBS BETWEEN THE I-85 SOUTHBOUND EDGE OF PAVEMENT AND THE EXISTING CHAIN LINK FENCE (CONTROLLED ACCESS FENCE). FILL, COMPACT, AND GRADE SMOOTH ANY GROUND VOIDS WITH EXCESS EARTH MATERIAL FROM RAMP WIDENING AREAS SHOWN IN THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR UNDER "CLEARING AND GRUBBING". ANY ADDITIONAL EARTH MATERIAL REQUIRED TO FILL GROUND VOIDS WILL BE PAID FOR UNDER "BORROW EXCAVATION".
2. REMOVE AND REPLACE EXISTING I-85 SOUTHBOUND GUARDRAIL PER DETAIL A. DO NOT DISTURB EXISTING GUARDRAIL ALONG CROASDAILE DRIVE OR ALONG US 15/US 501.
3. RESTORE DISTURBED SIDE SLOPES AND DITCHES TO EXISTING GRADE. REPLACE ANY CONCRETE ITEM OR RIP RAP DITCH LINING THAT IS DAMAGED DURING CONSTRUCTION. NO PAYMENT WILL BE MADE FOR THIS WORK AND IS CONSIDERED INCIDENTAL TO "CLEARING AND GRUBBING".
4. INSTALL EROSION CONTROL DEVICES PER THE EROSION CONTROL PLANS.
5. WORK IN ZONE 5 IS INCLUDED IN MAP 2 PAY ITEMS.

COMPUTED BY: JDB
CHECKED BY: TSH

DATE: 09/08/23
DATE: 09/12/23

PROJECT NO.
I-5941

SHEET NO.
3B-3

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	6071002000-E	6071010000-E	6071013000-E	6084000000-E	6087000000-E	6090000000-E	6093000000-E	6096000000-E	6108000000-E	6114500000-N	6114800000-N	6114900000-E	6117000000-N	6117500000-N	6132000000-N	6132000000-N	4400000000-E	4405000000-E	
							FLOCCULANT	WATTLE	WATTLE BARRIER	SEEDING & MULCHING	MOWING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	SEED FOR SUPPLEMENTAL SEEDING	FERTILIZER TOPDRESSING	SPECIALIZED HAND MOWING	MANUAL LITTER REMOVAL	LITTER DISPOSAL	RESPONSE FOR EROSION CONTROL	CONCRETE WASHOUT STRUCTURE	FABRIC INSERT INLET PROTECTION, TYPE 1	FABRIC INSERT INLET PROTECTION CLEANOUT	WORK ZONE SIGNS (STATIONARY)	WORK ZONE SIGNS (PORTABLE)	
							MI	LB	LF	LF	ACR	ACR	LB	TON	TON	MHR	MHR	TON	EA	EA	EA	EA	SF	SF	
I-5941	Durham	1	-I85NBL-	I-85 NORTHBOUND LANES	1	2,454	520	860	3,051	12.00	36.00	200.00	0.49	300.00	8.80	28.0	18.00	1.58	40		12	36	107	207	
I-5941	Durham	2	-I85SBL-	I-85 SOUTHBOUND LANES	1	2,454	590	840	2,667	15.00	45.00	250.00	0.60	375.00	11.00	35.0	23.00	2.00	50		13	39	107	207	
I-5941	Durham	3	-NC147SB-	NC 147 SOUTHBOUND LANES	2	0.240			723	0.75	2.25	12.50	0.03	18.75	0.55	2.0	2.00	0.10	1						
I-5941	Durham	4	-NC147NB-	NC 147 NORTHBOUND LANES	2	0.180			275	0.75	2.25	12.50	0.03	18.75	0.55	2.0	2.00	0.10	1						
I-5941	Durham	5	-CMRAMPA-	COLE MILL RD RAMP A	3	0.119	5		660	0.30	0.90	5.00	0.02	7.50	0.22	1.0	1.00	0.05	2						
I-5941	Durham	6	-CMRAMPB-	COLE MILL RD RAMP B	3	0.145	5		425	0.30	0.90	5.00	0.02	7.50	0.22	1.0	1.00	0.05	2						
I-5941	Durham	7	-CMRAMPC-	COLE MILL RD RAMP C	3	0.138				0.30	0.90	5.00	0.02	7.50	0.22	1.0	1.00	0.05	2						
I-5941	Durham	8	-CMRAMPD-	COLE MILL RD RAMP D	3	0.083			419	0.30	0.90	5.00	0.02	7.50	0.22	1.0	1.00	0.05	2	1					
I-5941	Durham	9	-CMSPURB-	COLE MILL RD SPUR B	4	0.019			92	0.15	0.45	2.50	0.01	3.75	0.11	0.5	0.50	0.01							
I-5941	Durham	10	-CMSPURD-	COLE MILL RD SPUR D	5	0.030			98	0.15	0.45	2.50	0.01	3.75	0.11	0.5	0.50	0.01							
I-5941	Durham	11	SR 1493 (CROASDAILE RD)	SR 1493 (CROASDAILE RD)	N/A	0.300																		96	
GRAND TOTAL FOR TIP PROJECT I-5941							6.162	1,120	1,700	8,410	30	90	500	1.25	750	22	72	50	4	100	1	25	75	214	510

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	4410000000-E	4415000000-N	4420000000-N	4423000000-N	4430000000-N	4434000000-N	4435000000-N	4445000000-E	4447000000-E	4455000000-N	4480000000-N	4510000000-N	4600000000-N	4650000000-N	4688000000-E		4700000000-E			
							WORK ZONE SIGNS (BARRICADE MOUNTED)	FLASHING ARROW BOARD	PORTABLE CHANGEABLE MESSAGE SIGN	WORK ZONE DIGITAL SPEED LIMIT SIGNS	DRUMS	SEQUENTIAL FLASHING WARNING LIGHTS	CONES	BARRICADES (TYPE III)	PEDESTRIAN CHANNELIZING DEVICES	FLAGGER	TMA	LAW ENFORCEMENT	CONNECTED LANE CLOSURE SYSTEM	TEMPORARY RAISED PAVEMENT MARKERS	THERMO PAVT MRKG LINES (6", 90 MILS) YELLOW	THERMO PAVT MRKG LINES (6", 90 MILS) WHITE	THERMO PAVT MRKG LINES (12", 90 MILS) WHITE			
							MI	SF	EA	EA	EA	EA	EA	LF	LF	DAY	EA	HR	EA	EA	EA	EA	EA			
I-5941	Durham	1	-I85NBL-	I-85 NORTHBOUND LANES	1	2,454			3	2	7	150	39									2	640	12,670	20,045	2,810
I-5941	Durham	2	-I85SBL-	I-85 SOUTHBOUND LANES	1	2,454			3	2	7	150	26									1	650	12,670	20,381	3,145
I-5941	Durham	3	-NC147SB-	NC 147 SOUTHBOUND LANES	2	0.240																	30	1,262	1,546	
I-5941	Durham	4	-NC147NB-	NC 147 NORTHBOUND LANES	2	0.180				1													30	965	1,299	
I-5941	Durham	5	-CMRAMPA-	COLE MILL RD RAMP A	3	0.119	12							96	16							262	30	594	855	
I-5941	Durham	6	-CMRAMPB-	COLE MILL RD RAMP B	3	0.145	12							96								263	50	770	645	95
I-5941	Durham	7	-CMRAMPC-	COLE MILL RD RAMP C	3	0.138	12							96								262	50	720	1,015	
I-5941	Durham	8	-CMRAMPD-	COLE MILL RD RAMP D	3	0.083	12							96	8							263	35	410	350	90
I-5941	Durham	9	-CMSPURB-	COLE MILL RD SPUR B	4	0.019																	10		189	94
I-5941	Durham	10	-CMSPURD-	COLE MILL RD SPUR D	5	0.030																	10			50
I-5941	Durham	11	SR 1493 (CROASDAILE RD)	SR 1493 (CROASDAILE RD)	N/A	0.300							35			8	14									50
GRAND TOTAL FOR TIP PROJECT I-5941							6.162	48	6	6	14	300	65	35	384	32	14	5	1050	3	1,535	30,061	46,325	6,284	76,386	

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH	4709000000-E	4720000000-E	4725000000-E	4810000000-E	4815000000-E	4825000000-E	4835000000-E	4840000000-N	4845000000-N	4905100000-N	7444000000-E	7456100000-E	
							THERMO PAVT MRKG LINES (24", 90 MILS) WHITE	THERMO PAVT MRKG CHARACTER (90 MILS)	THERMO PAVT MRKG SYMBOL (90 MILS)	PAINT PAVEMENT MARKING LINES (4")	PAINT PAVEMENT MARKING LINES (6")	PAINT PAVEMENT MARKING LINES (12")	PAINT PAVEMENT MARKING LINES (24")	PAINT PAVEMENT MARKING CHARACTER	PAINT PAVEMENT MARKING SYMBOL	NON-CAST IRON SNOW PLOWABLE PAVEMENT MARKER	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)	
							MI	EA	EA	LF	LF	LF	EA	EA	EA	LF	LF		
I-5941	Durham	1	-I85NBL-	I-85 NORTHBOUND LANES	1	2,454			3			73,600	4,350		8	15		625	
I-5941	Durham	2	-I85SBL-	I-85 SOUTHBOUND LANES	1	2,454		8	18			73,570	4,300			15		655	
I-5941	Durham	3	-NC147SB-	NC 147 SOUTHBOUND LANES	2	0.240						1,360						20	
I-5941	Durham	4	-NC147NB-	NC 147 NORTHBOUND LANES	2	0.180						1,330						33	
I-5941	Durham	5	-CMRAMPA-	COLE MILL RD RAMP A	3	0.119	60		7	2,550		600			12	35	150	200	
I-5941	Durham	6	-CMRAMPB-	COLE MILL RD RAMP B	3	0.145						740							
I-5941	Durham	7	-CMRAMPC-	COLE MILL RD RAMP C	3	0.138	30		7	3,250		600	60		12	35	150	200	
I-5941	Durham	8	-CMRAMPD-	COLE MILL RD RAMP D	3	0.083	30			2,100		760							
I-5941	Durham	9	-CMSPURB-	COLE MILL RD SPUR B	4	0.019				450									
I-5941	Durham	10	-CMSPURD-	COLE MILL RD SPUR D	5	0.030	24			150									
I-5941	Durham	11	SR 1493 (CROASDAILE RD)	SR 1493 (CROASDAILE RD)	N/A	0.300													
GRAND TOTAL FOR TIP PROJECT I-5941							6.162	144	8	35	11,500	149,860	11,350	120	8	54	1,403	300	400

NOTES:

1. NO LOCATION SURVEY HAS BEEN PERFORMED ON THIS PROJECT. ALIGNMENTS SHOWN ARE INTENDED TO PROVIDE APPROXIMATE LENGTHS AND LOCATIONS ONLY.
2. PLAN STATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DETERMINED BY THE ENGINEER.
3. REMOVE AND REPLACE ALL GUARDRAIL AND GUARDRAIL ANCHORAGES. SEE GUARDRAIL SUMMARY SHEET FOR LOCATIONS.



REVISIONS

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REMOVE VEGETATION AT NOISE WALL
(SEE SHEET 2B-1 FOR DETAILS)

REMOVE VEGETATION AT NOISE WALL
(SEE SHEET 2B-1 FOR DETAILS)

REMOVE VEGETATION AT NOISE WALL
(SEE SHEET 2B-1 FOR DETAILS)

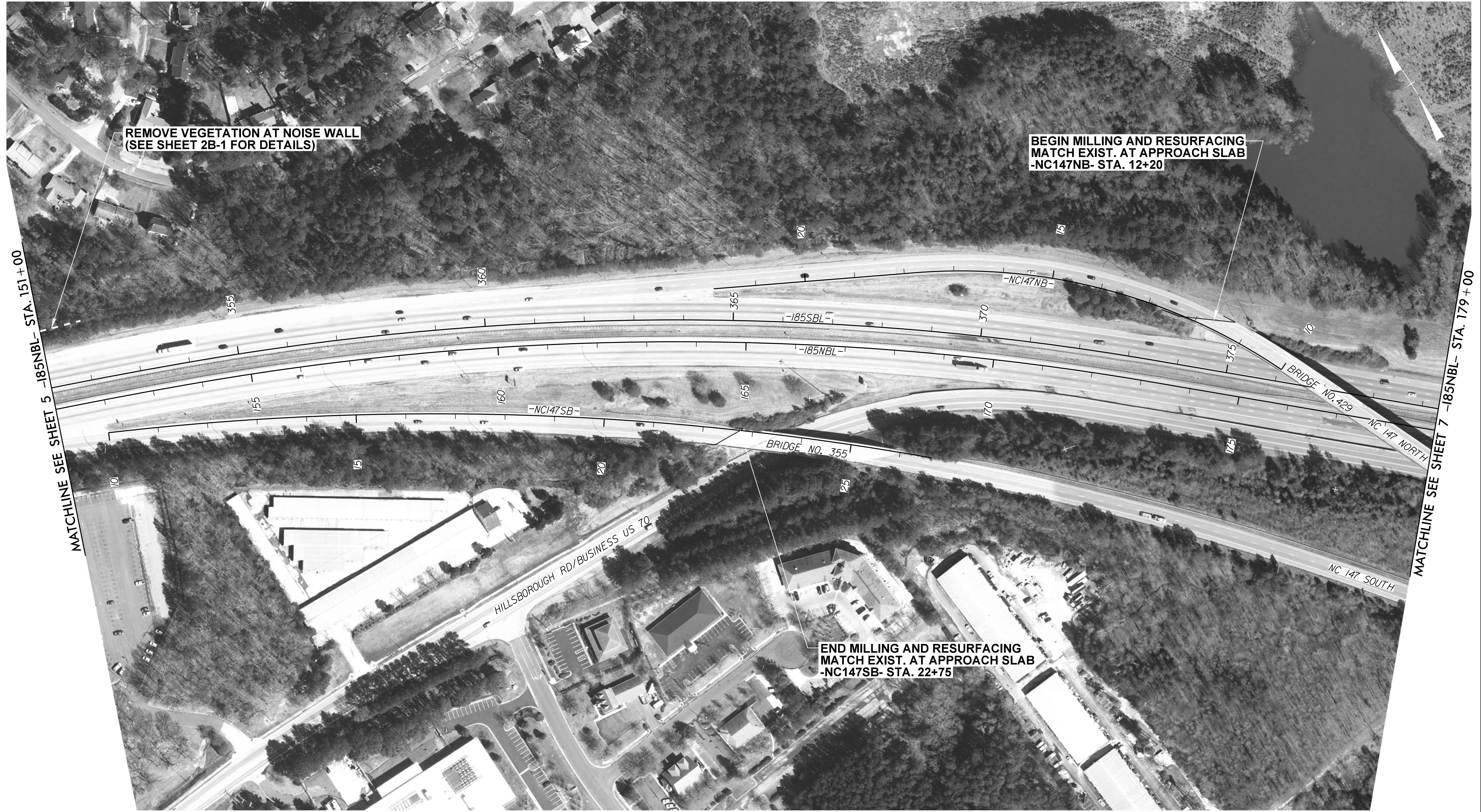
MATCHLINE SEE SHEET 4 -185NBL- STA. 123+00

MATCHLINE SEE SHEET 6 -185NBL- STA. 151+00

REVISIONS

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 lason@reda

NOTES:

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MATCHLINE SEE SHEET 6 -185NBL- STA. 179+00

MATCHLINE SEE SHEET 8 -185NBL- STA. 207+00

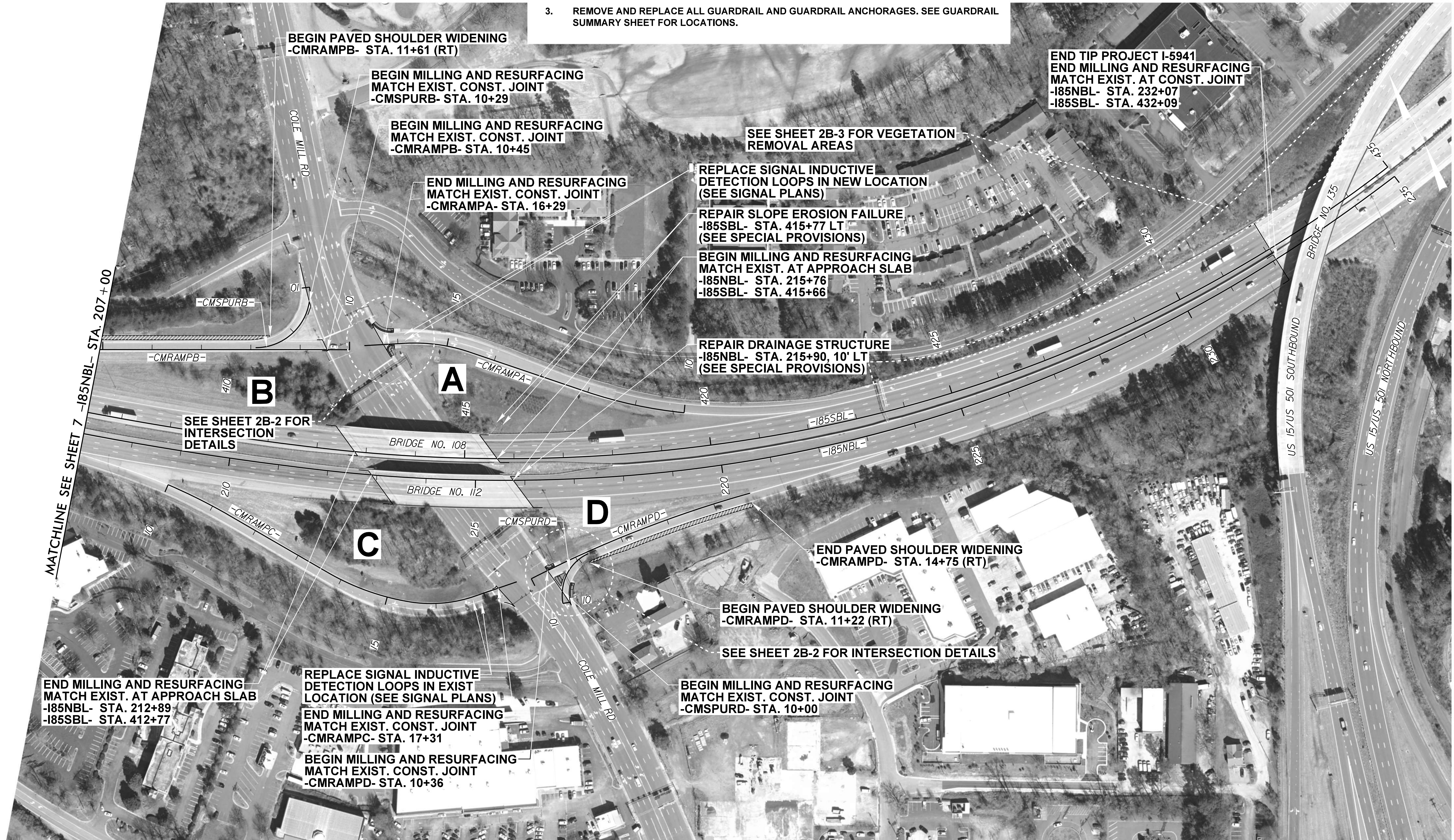
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NOTES:

1. NO LOCATION SURVEY HAS BEEN PERFORMED ON THIS PROJECT. ALIGNMENTS SHOWN ARE INTENDED TO PROVIDE APPROXIMATE LENGTHS AND LOCATIONS ONLY.
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