

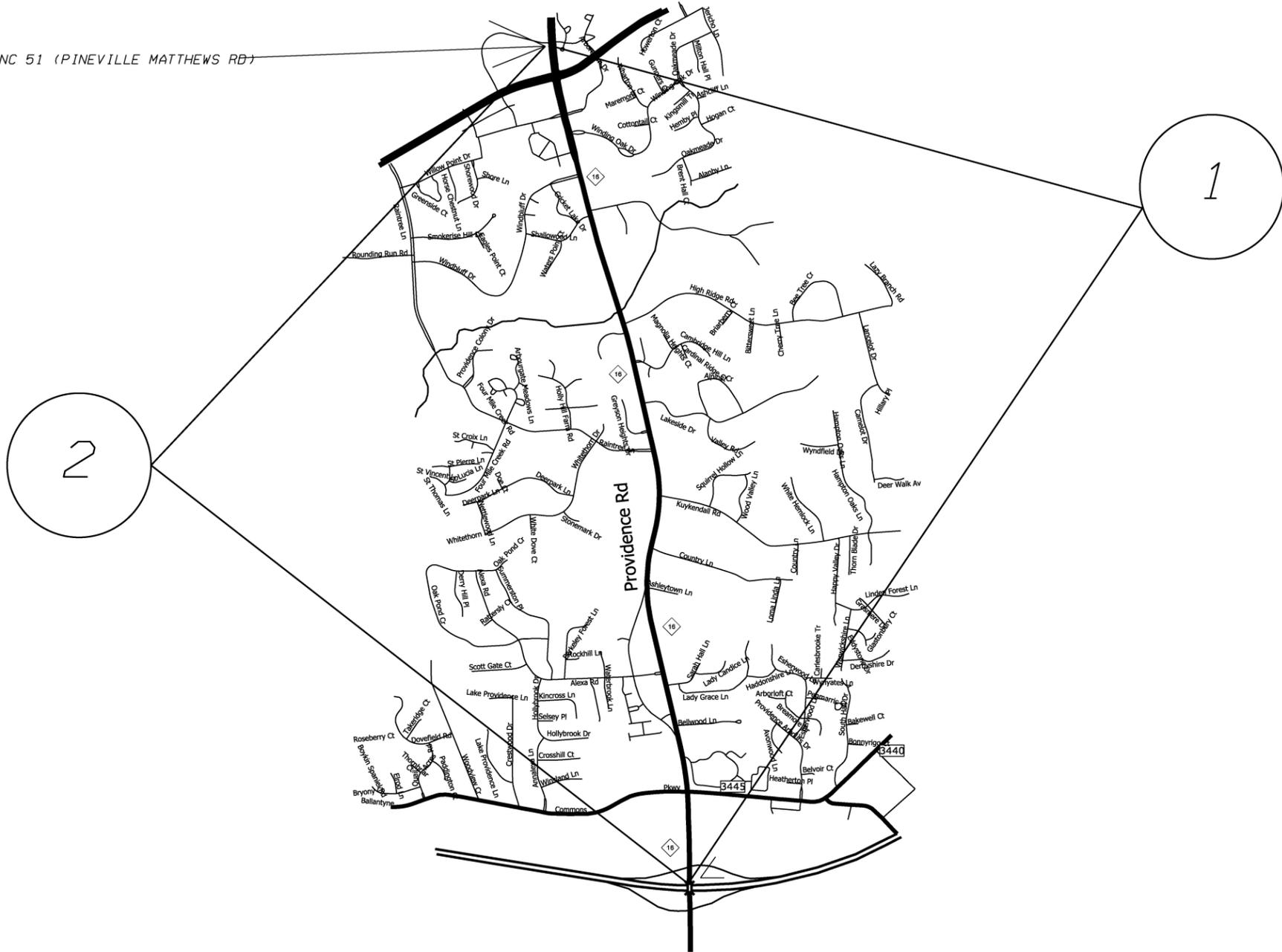
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STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		1	1
WBS NO. 2016CPT.10.22.10601.1, ETC.			

PVMT JT 500' N OF NC 51 (PINEVILLE MATTHEWS RD)



MAP

DESCRIPTION

1 NC 16 (PROVIDENCE RD)

FROM I-485 BRIDGE TO PVMT. JNT. 500' NORTH OF NC51 (PINEVILLE MATTHEWS RD)

2 NC 16 (PROVIDENCE RD)

FROM PVMT. JNT. 500' NORTH OF NC51 (PINEVILLE MATTHEWS RD) TO I-485 BRIDGE

2016/2017 MECKLENBURG COUNTY RESURFACING			REVISIONS	
SCALE	-NA-			
DATE	4/16			
DWG. BY	TJP			
DESIGN BY	TJP			
APPROVED	WAT			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		2	2
WBS NO. 2016CPT.10.22.10601.1, ETC.			



MAP

DESCRIPTION

3 NC 16 NORTHBOUND (PROVIDENCE RD)

FROM OLD PROVIDENCE RD TO SARDIS RD

4 NC 16 SOUTHBOUND (PROVIDENCE RD)

FROM SARDIS RD TO OLD PROVIDENCE RD

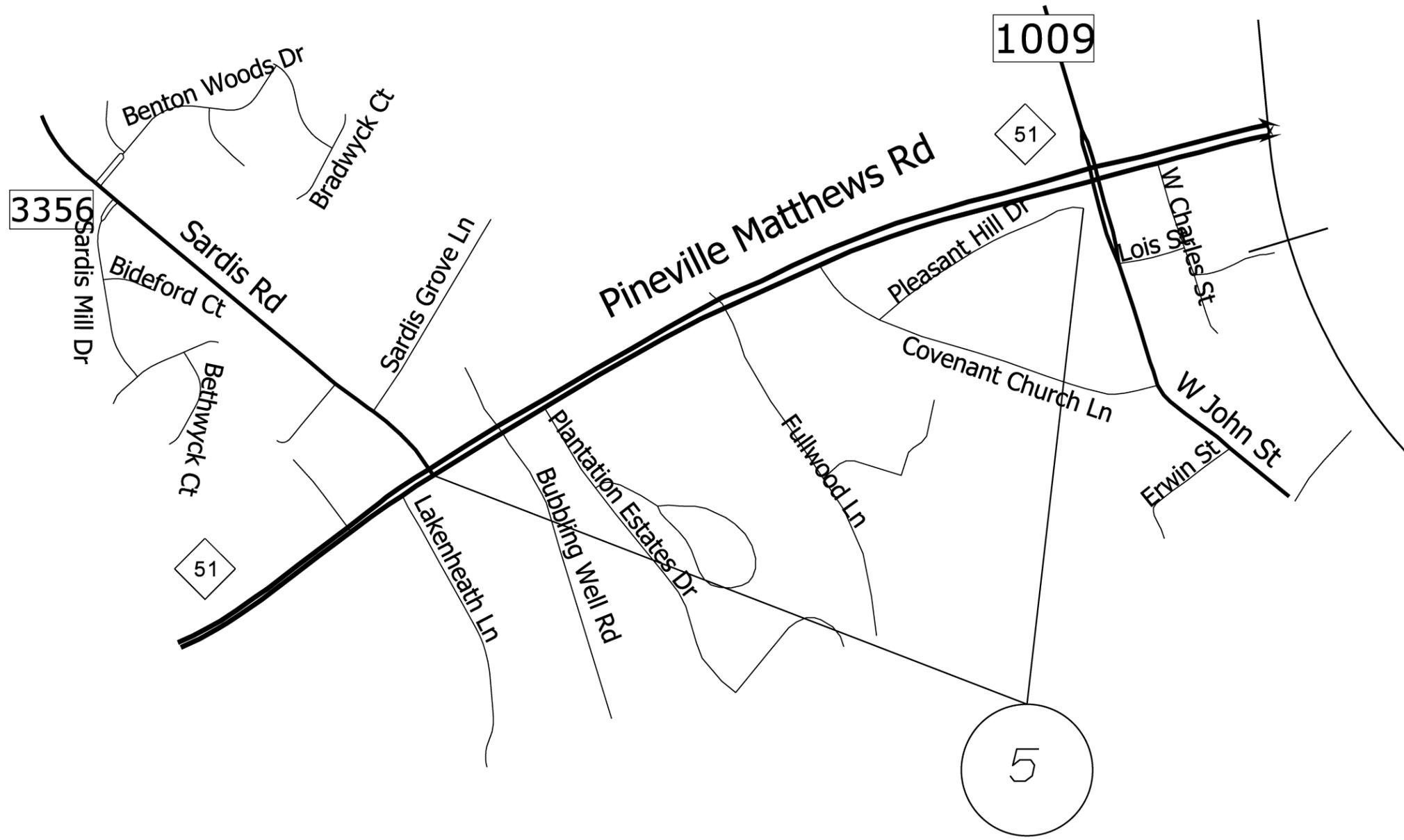
2016/2017 MECKLENBURG COUNTY
RESURFACING

SCALE	-1A-
DATE	4/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			3
WBS NO. 2016CPT.10.22.10601.1, ETC.			



MAP

DESCRIPTION

#5 NC 51 (PINEVILLE MATTHEWS RD)

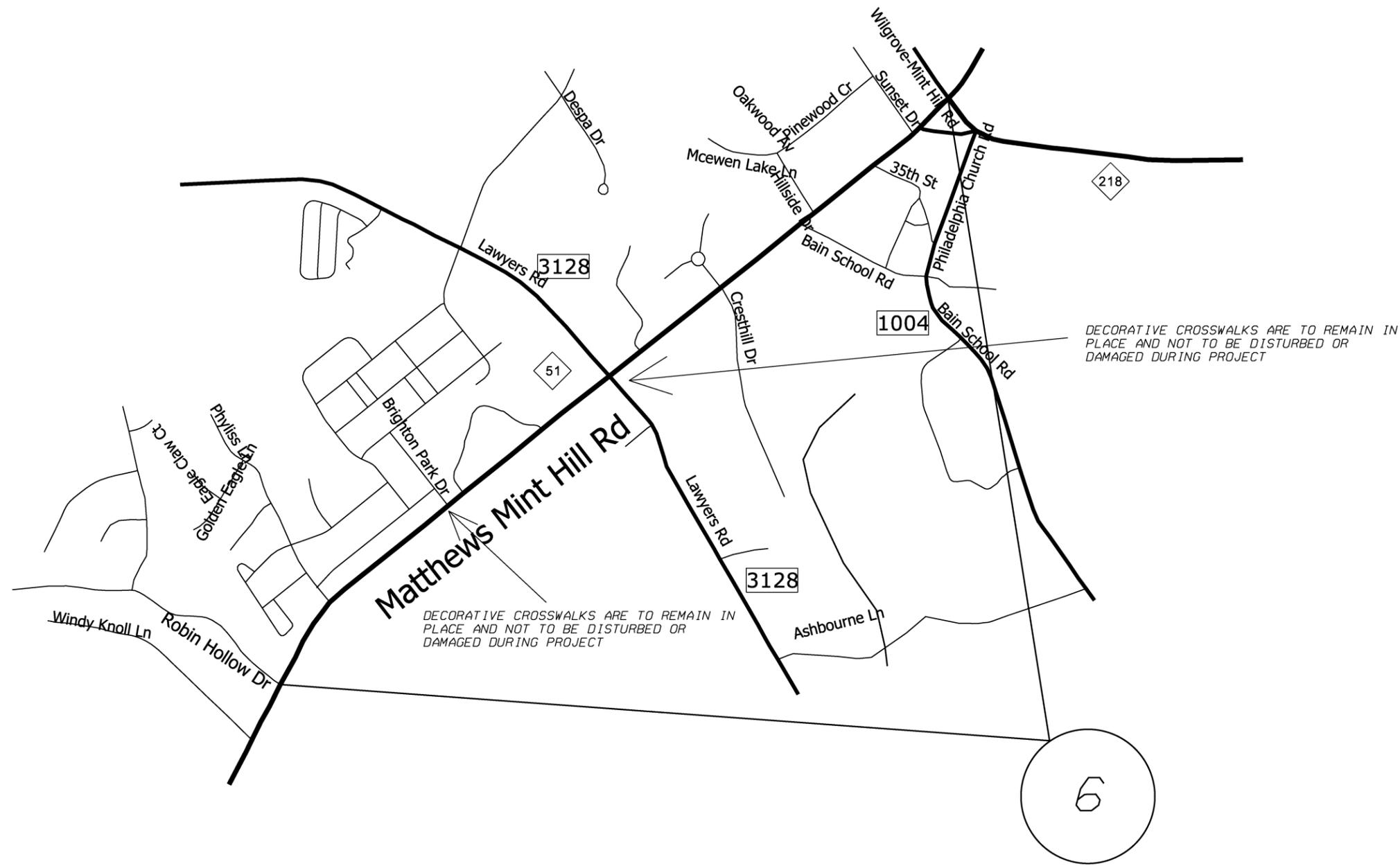
FROM SR 3356 (SARDIS RD) TO SR 1009
(MONROE RD)



2016/2017 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS
DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			4
WBS NO. 2016CPT.10.22.10601.1, ETC.			



MAP

6 NC 51 (MATTHEWS MINT HILL RD)

DESCRIPTION

FROM ROBIN HOLLOW DR TO NC 218
(FAIRVIEW RD)

2016/2017 MECKLENBURG COUNTY
RESURFACING

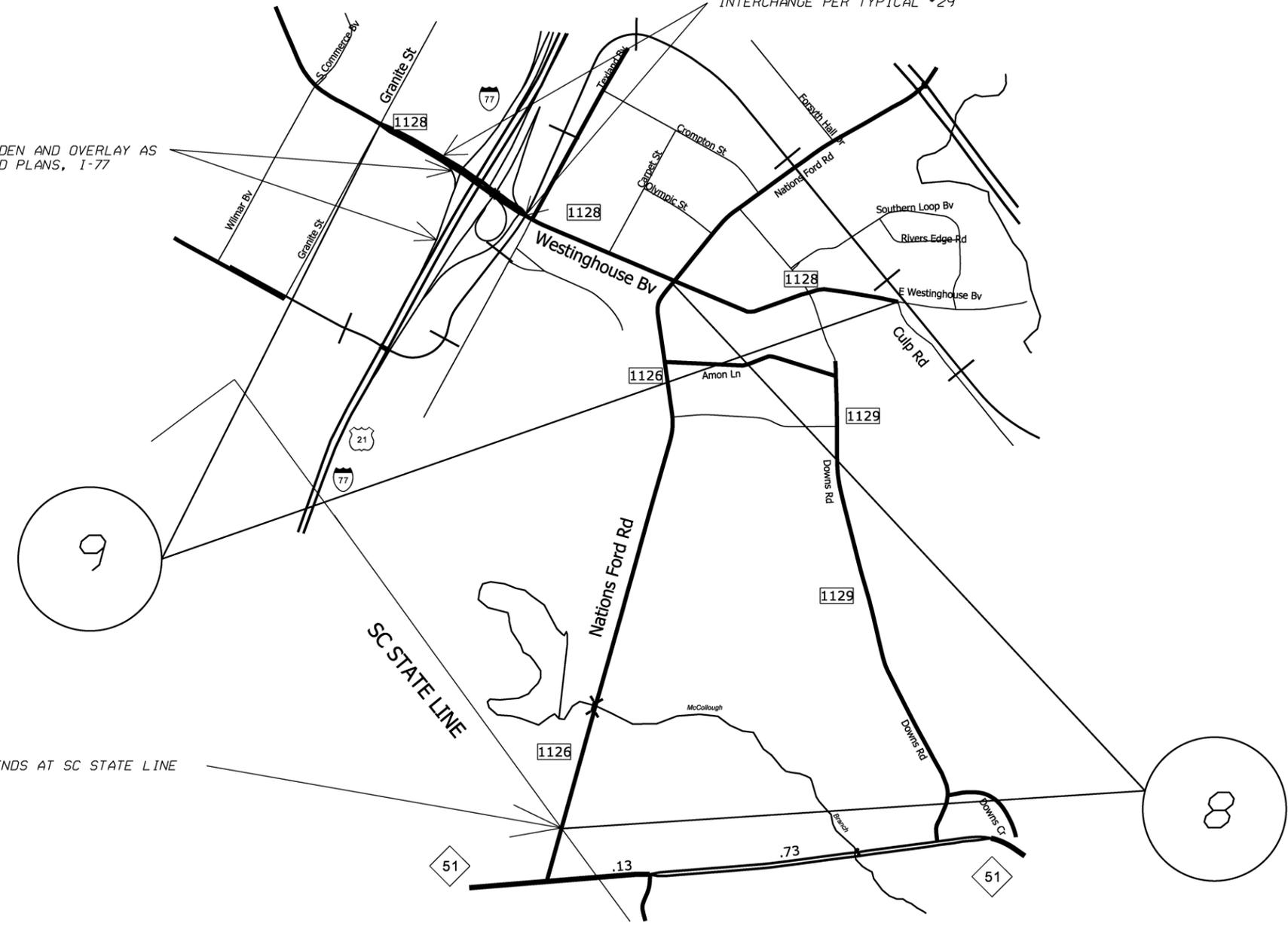
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DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			6
WBS NO. 2016CPT.10.22.10601.1, ETC.			

AS PART OF MAP #9 WIDEN AND OVERLAY AS INDICATED ON ATTACHED PLANS, I-77 SOUTHBOUND ON RAMP.

MILL AND PAVE 4" DEPTH WITHIN I-77 INTERCHANGE PER TYPICAL *29



MAP ENDS AT SC STATE LINE

MAP

DESCRIPTION

8 SR 1126 (NATIONS FORD RD)

FROM SR 1128 (WESTINGHOUSE BV) SC STATE LINE

9 SR 1128 (WESTINGHOUSE BV)

FROM GRANTIE ST TO END OF MAINTENANCE AT CULP RD

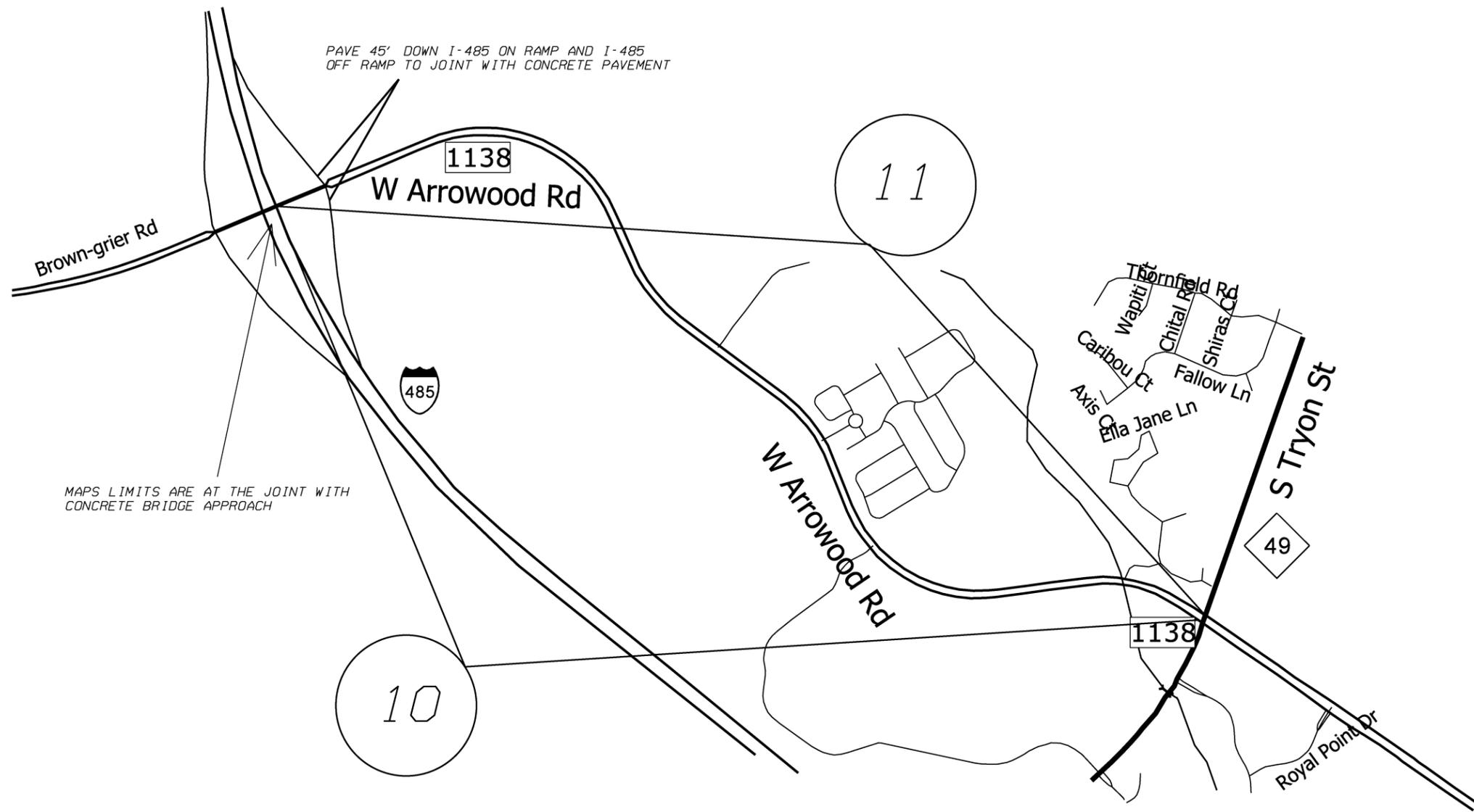
2016/2017 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-
DATE	4/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			7
WBS NO. 2016CPT.10.22.10601.1, ETC.			



MAP

10 SR 1138 (EASTBOUND ARROWOOD RD)

11 SR 1138 (WESTBOUND ARROWOOD RD)

DESCRIPTION

FROM BRIDGE OVER I-485 TO NC 49 (S. TRYON ST)

FROM NC49 (S. TRYON ST) TO BRIDGE AT I-485

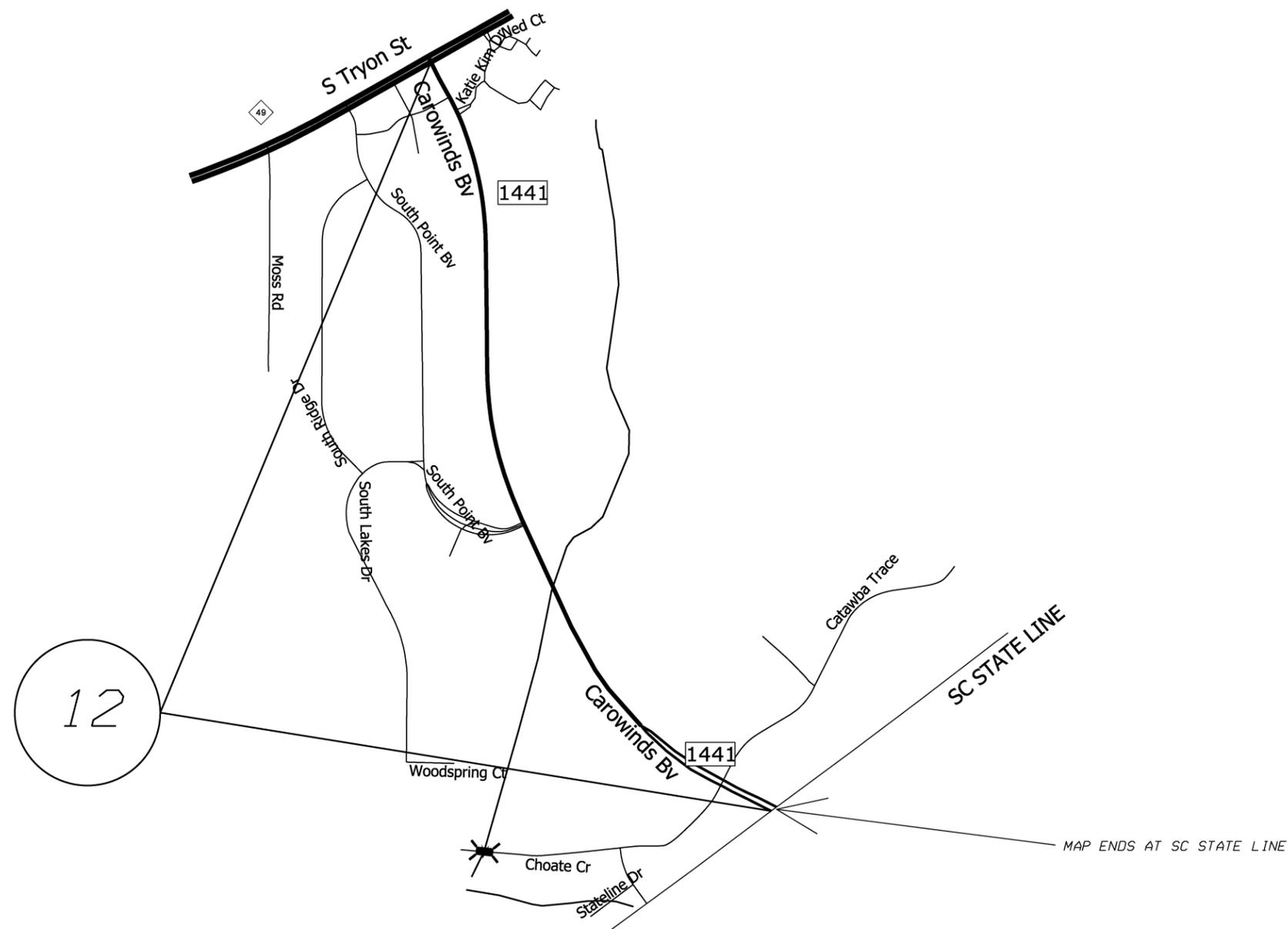
2016/2017 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-
DATE	4/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			8
WBS NO. 2016CPT.10.22.10601.1, ETC.			



MAP

12 SR 1441 (CAROWINDS BV)

DESCRIPTION

FROM NC 49 (S. TRYON ST) TO SC STATE LINE

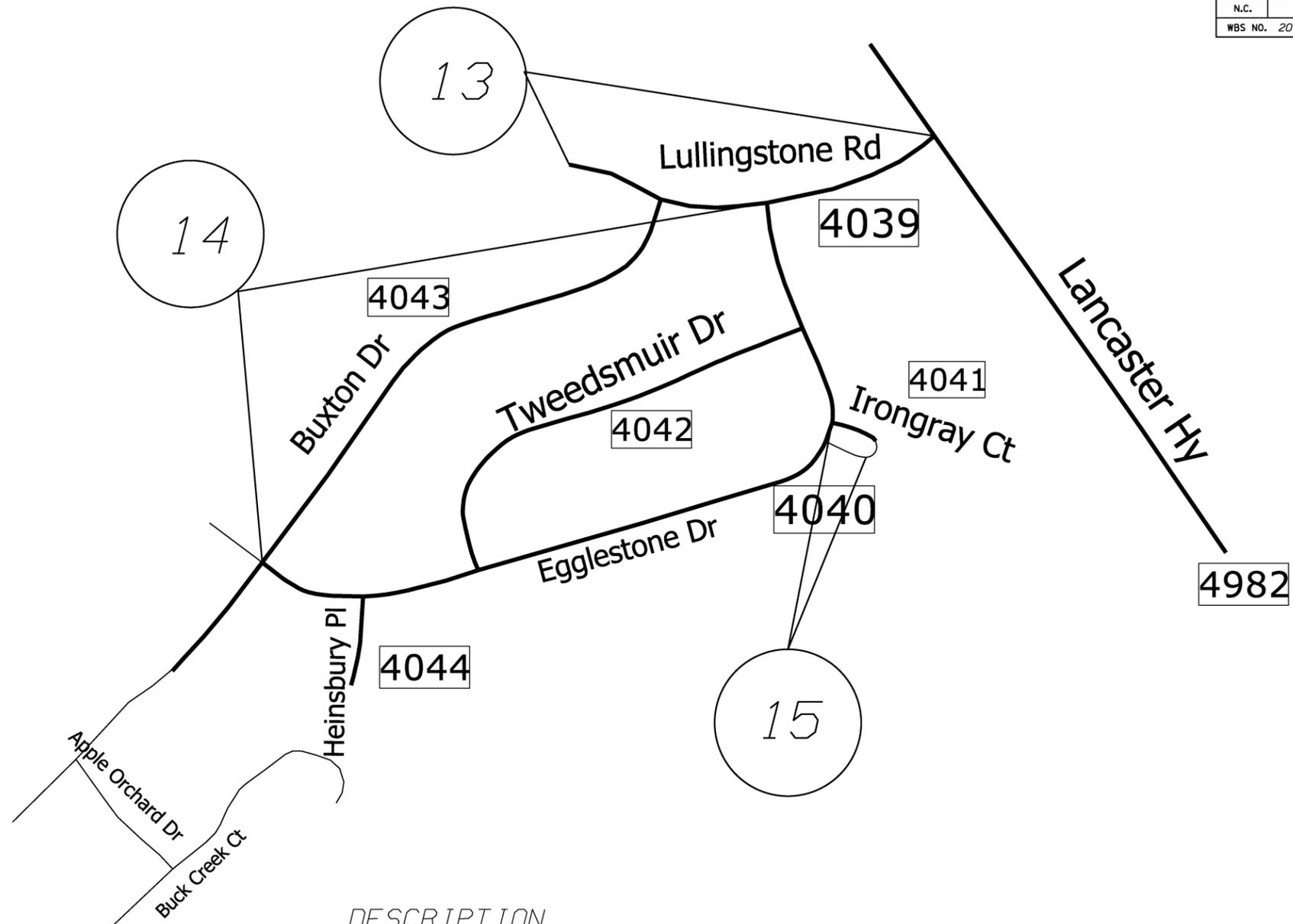
2016/2017 MECKLENBURG COUNTY
RESURFACING

SCALE -NA-
DATE 4/16
DWG. BY TJP
DESIGN BY TJP
APPROVED WAT



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			9
WBS NO. 2016CPT.10.22.10601.1, ETC.			



MAP

DESCRIPTION

13 SR 4039 (LULLINGSTONE RD)

FROM SR 4982 (LANCASTER HY) TO
CUL-DE-SAC

14 SR 4040 (EGGLESTONE DR)

FROM SR 4039 (LULLINGSTONE RD) TO SR
4043 (BUXTON DR)

15 SR 4041 (IRONGRAY CT)

FROM SR 4040 (EGGLESTONE DR) TO DEAD END

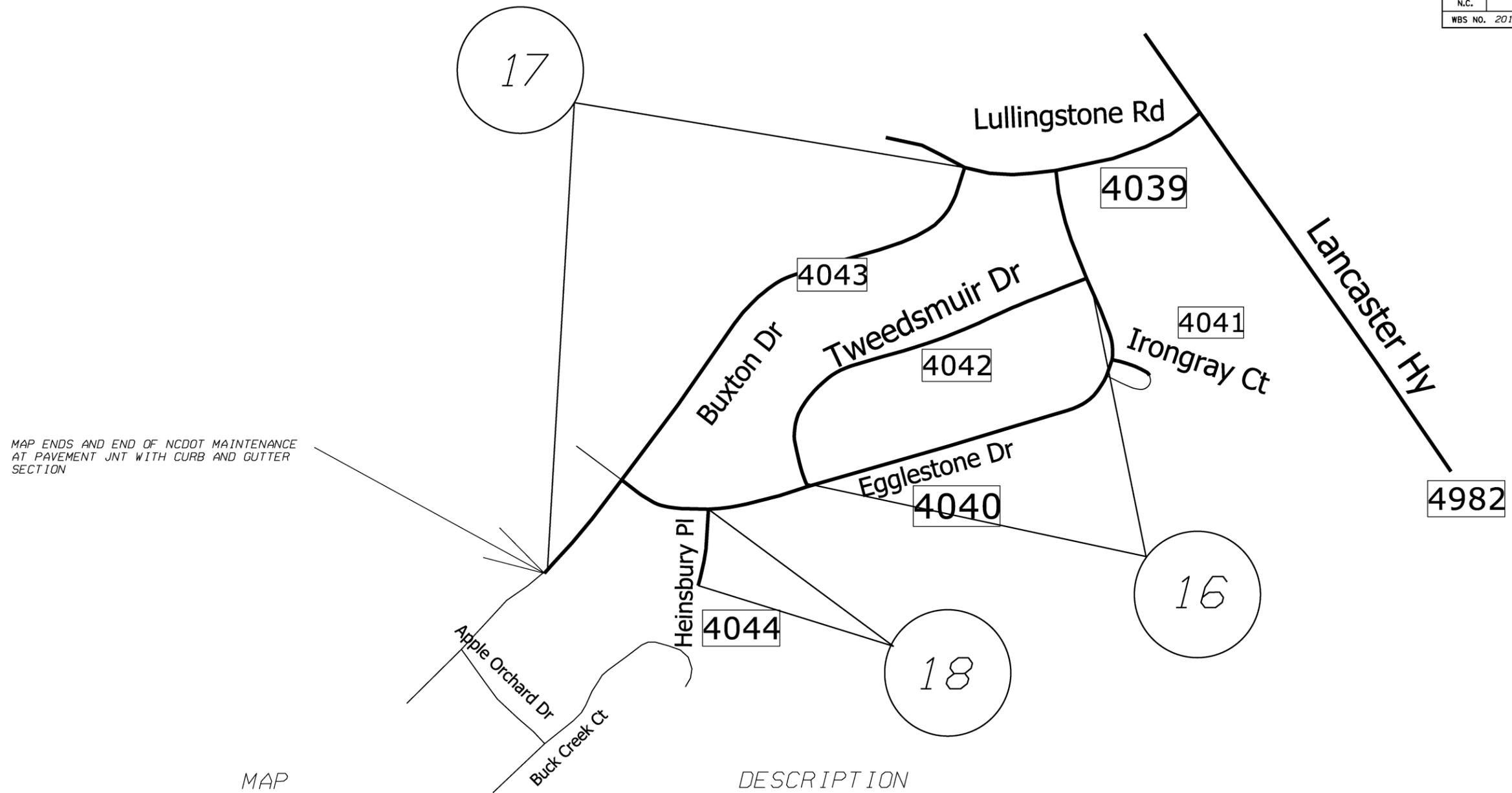
2016/2017 MECKLENBURG COUNTY
RESURFACING

SCALE -NA-
DATE 4/16
DWG. BY TJP
DESIGN BY TJP
APPROVED WAT



REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			10
WBS NO. 2016CPT.10.22.10601.1, ETC.			



16 SR 4042 (TWEEDSMUIR DR)

FROM SR 4044 EGGLESTONE DR BACK TO SR 4044 EGGLESTONE DR

17 SR 4043 (BUXTON DR)

FROM SR 4039 (LULLINGSTONE RD) TO END OF MAINTENANCE

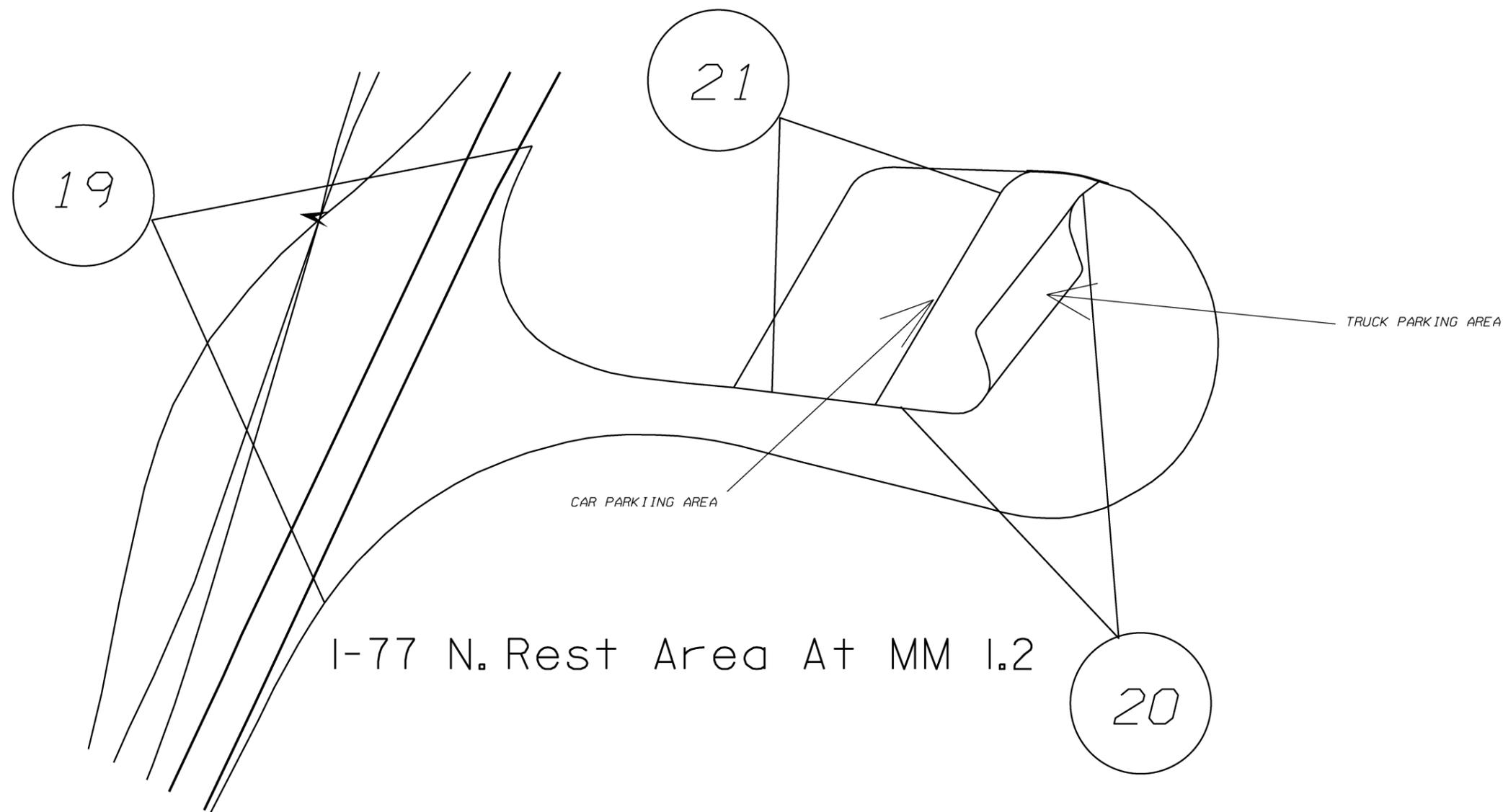
18 SR 4044 (HEINSBURY PL)

FROM SR 4040 (EGGLESTONE DR) TO DEAD END

2016/2017 MECKLENBURG COUNTY RESURFACING		
SCALE	-NA-	REVISIONS
DATE	4/16	
DWG. BY	TJP	
DESIGN BY	TJP	
APPROVED	WAT	



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			11
WBS NO. 2016CPT.10.22.10601.1, ETC.			



I-77 N. Rest Area At MM 1.2

MAP

DESCRIPTION

19 RST 4619 (REST AREA RAMPS AND LOOP ROAD)

FROM I-77 EXIT RAMP AROUND LOOP BACK TO I-77 ON RAMP

20 RST 4621 (REST AREA TRUCK PARKING AND DRIVEWAY)

FROM LOOP ROAD THROUGH TRUCK PARKING TO CAR PARKING DRIVEWAY

21 RST 4620 (REST AREA CAR PARKING AND DRIVEWAY)

FROM LOOP ROAD THROUGH CAR PARKING BACK TO LOOP ROAD

2016/2017 MECKLENBURG COUNTY RESURFACING

SCALE -NA-
DATE 4/16
DWG. BY TJP
DESIGN BY TJP
APPROVED WAT



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			12
WBS NO. 2016CPT.10.22.10601.1, ETC.			

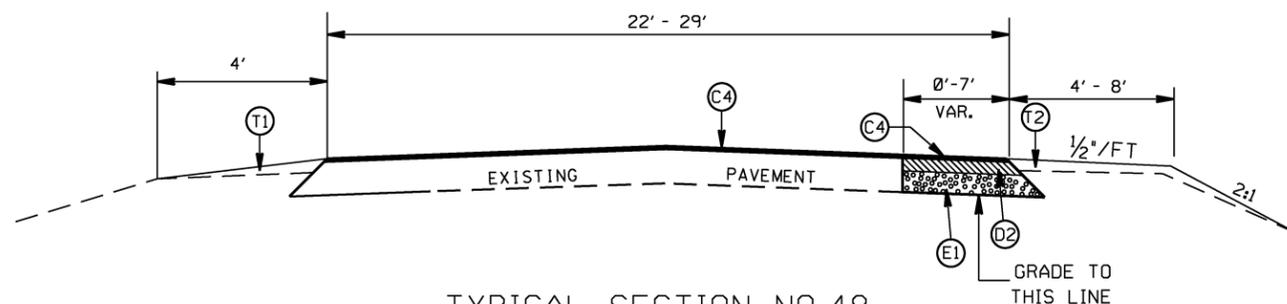
PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

- | | |
|--|---|
| TA - WHITE EDGELINE (4', 90 MIL) | TU - WHITE DIAGONAL (12', 90 MIL) |
| TB - YELLOW EDGELINE (4', 90 MIL) | TV - YELLOW DIAGONAL (12', 90 MIL) |
| TC - 10FT. WHITE SKIP (4', 120 MIL) | T1 - WHITE LINE, RR X (16', 120 MIL) |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4', 120 MIL) | T2 - WHITE STOPBAR (24', 120 MIL) |
| TE - WHITE SOLID LANE LINE (4', 120 MIL) | T3 - WHITE CROSSWALK LINE (24', 120 MIL) |
| TF - 10FT. YELLOW SKIP (4', 120 MIL) | T4 - WHITE RUMBLE STRIP (4', 240 MIL) |
| TH - YELLOW SINGLE CENTER (4', 120 MIL) | T5 - YELLOW RUMBLE STRIP (4', 240 MIL) |
| TI - YELLOW DOUBLE CENTER (4', 120 MIL) | T6 - WHITE EDGELINE (6', 90 MIL) |
| TJ - 10FT. WHITE SKIP (6', 120 MIL) | T7 - YELLOW EDGELINE (6', 90 MIL) |
| TK - 3FT.-9FT./SP WHITE MINISKIP (6', 120 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4', 120 MIL) |
| TL - WHITE SOLID LANE LINE (6', 120 MIL) | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4', 120 MIL) |
| TM - 10FT. YELLOW SKIP (6', 120 MIL) | T10 - 3FT.-3FT./SP WHITE MINISKIP (12', 120 MIL) |
| TN - WHITE GORELINE (8', 90 MIL) | T11 - 2FT.-6FT./SP WHITE MINISKIP (6', 120 MIL) |
| TO - WHITE DIAGONAL (8', 90 MIL) | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6', 120 MIL) |
| TP - YELLOW DIAGONAL (8', 90 MIL) | T13 - 3FT.-9FT./SP WHITE MINISKIP (8', 120 MIL) |
| TQ - WHITE CROSSWALK LINE (8', 120 MIL) | T14 - 3FT.-9FT./SP WHITE MINISKIP (12', 120 MIL) |
| TR - WHITE SOLID LANE LINE (8', 120 MIL) | T15 - YELLOW SINGLE CENTER (6', 120 MIL) |
| TS - WHITE GORELINE (12', 90 MIL) | T16 - YELLOW DOUBLE CENTER (6', 120 MIL) |
| TT - WHITE SOLID LANE LINE (12', 120 MIL) | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8', 120 MIL) |

PAVEMENT MARKING SYMBOLS

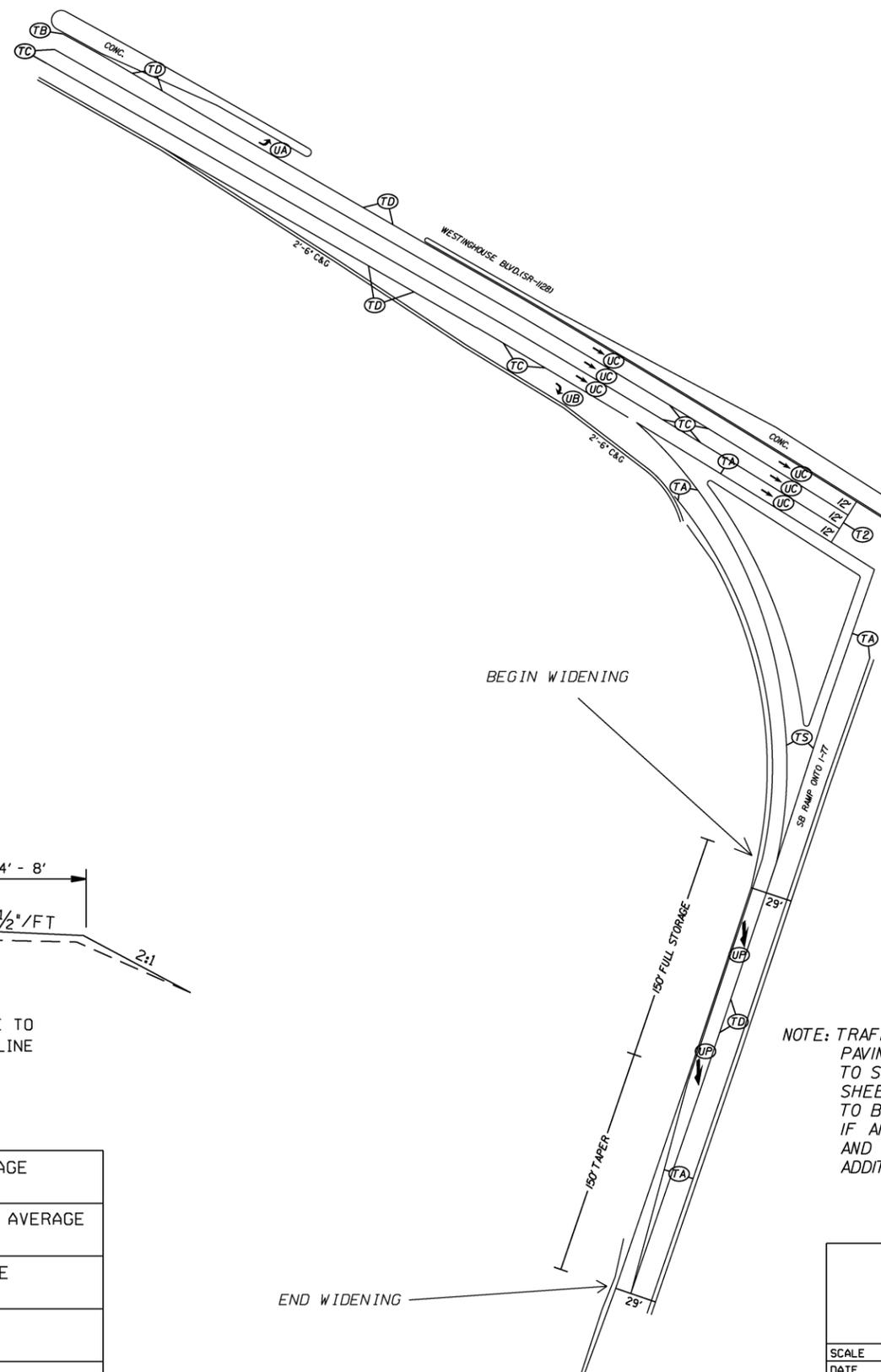
- | | |
|--|--|
| UA - LEFT TURN ARROW (90 MIL) | UU - FISH-HOOK STRAIGHT ARROW (90 MIL) |
| UB - RIGHT TURN ARROW (90 MIL) | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL) |
| UC - STRAIGHT ARROW (90 MIL) | UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL) |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL) | UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL) |
| UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL) | UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UF - COMBO. LEFT/RIGHT ARROW (90 MIL) | UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL) |
| UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) | |
| UH - HANDICAP PARKING (90 MIL) | WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL) |
| UI - ALPHANUMERIC CHAR. (120 MIL) | WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL) |
| UJ - BICYCLE SYMBOL (90 MIL) | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UK - BICYCLE STRAIGHT ARROW (90 MIL) | |
| UL - BICYCLE CHAR. (120 MIL) | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW) |
| UM - 12" YIELD LINE TRIANGLE (90 MIL) | MB - PERMANENT RAISED MARKER (CRYSTAL & RED) |
| UN - 24" YIELD LINE TRIANGLE (90 MIL) | MC - PERMANENT RAISED MARKER (YELLOW & RED) |
| UO - BICYCLE LEFT ARROW (90 MIL) | MD - PERMANENT RAISED MARKER (YELLOW) |
| UP - MERGE ARROW (90 MIL) | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW) |
| UQ - RAMP ARROW SYMBOL (90 MIL) | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED) |
| UR - SHARROW (90 MIL) | MG - SNOWPLOWABLE MARKER (YELLOW & RED) |
| US - BICYCLE LOOP DETECTOR (90 MIL) | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL) |
| UT - U-TURN ARROW (90 MIL) | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL) |



TYPICAL SECTION NO.48

PAVEMENT SCHEDULE

(C4)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D2)	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(T1)	SHOULDER RECONSTRUCTION (AS DIRECTED BY THE ENGINEER)
(T2)	SHOULDER CONSTRUCTION (AS DIRECTED BY THE ENGINEER)



NOTE: TRAFFIC CONTROL FOR THE MILLING AND/OR PAVING OF RAMPS IS TO BE DONE ACCORDING TO STANDARD DRAWING NUMBER 1101.02, SHEETS 9 & 10 UNLESS OTHERWISE APPROVED TO BE CLOSED BY THE ENGINEER. IF APPROVED, CONTRACTOR WILL PROVIDE PLANS AND DEVICES FOR THE DETOUR AT NO ADDITIONAL COST TO THE DEPARTMENT.

2016/2017 MECKLENBURG COUNTY RESURFACING

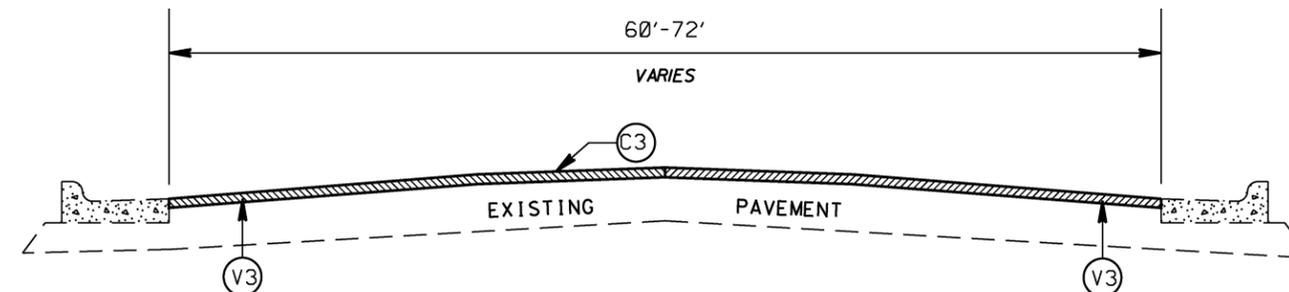
SCALE	-NA-
DATE	4/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



REVISIONS	

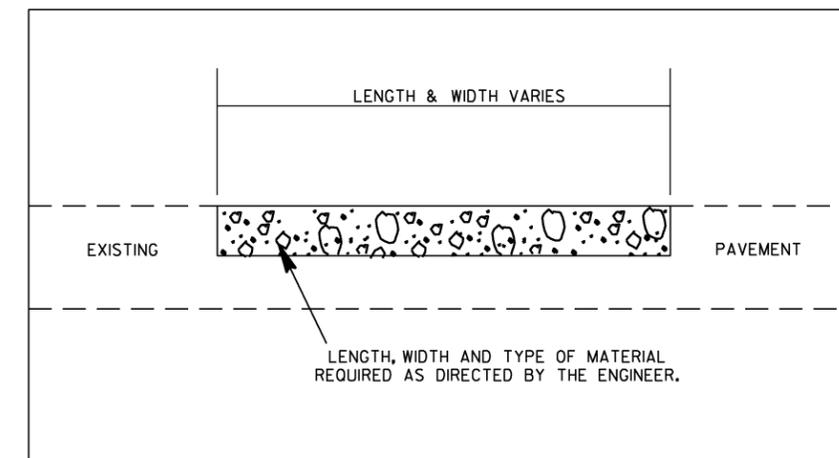
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			13
WBS NO.	2016CPT.I0.22.I060LI		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 1

PATCHING DETAIL



GENERAL NOTES FOR ALL MAPS AND TYPICALS:

1. PAVE TO BACK OF RADIUS ON STATE MAINTAINED SIDE ROADS OR AS DIRECTED BY ENGINEER.
2. PAVE MINIMUM OF 2' BACK ON ALL SIDE ROADS NOT STATE MAINTAINED OR AS DIRECTED BY ENGINEER.
3. PROVIDE PAPER TAPER JOINT AT MILLED BUTT JOINTS OR INTERSECTIONS AS DIRECTED BY THE ENGINEER, OF AT LEAST 3' LENGTH PER 1.5" DEPTH OF MILL.

2016/2017 MECKLENBURG COUNTY RESURFACING

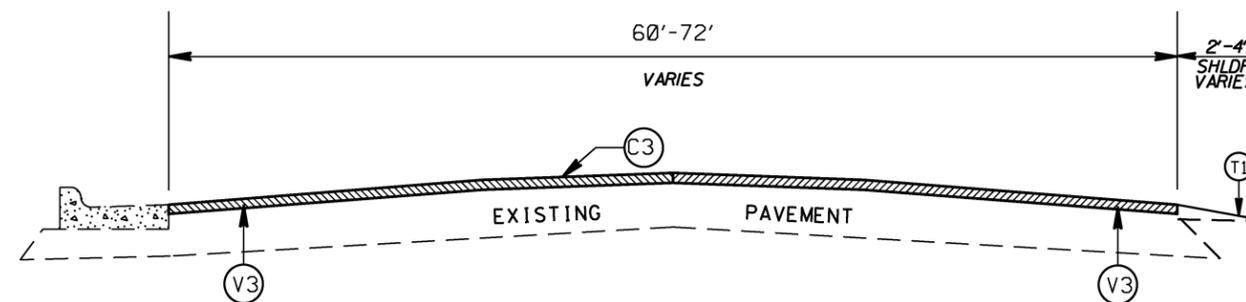
SCALE	-NA-
DATE	4/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



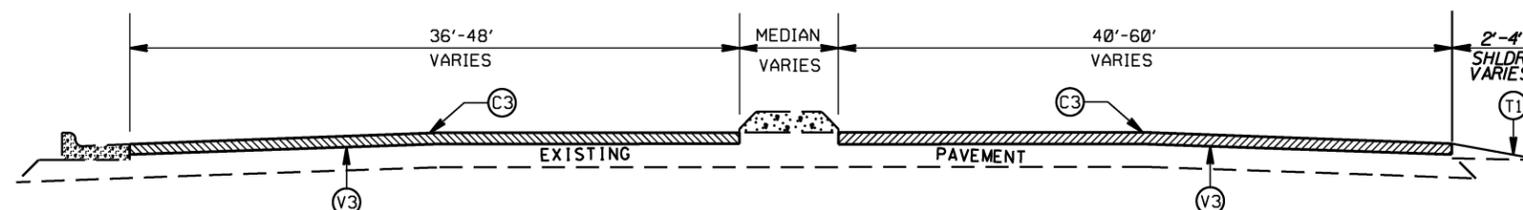
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			14
WBS NO.	2016CPT.10.22.10601J		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 2



TYPICAL SECTION NO. 3

2016/2017 MECKLENBURG COUNTY
RESURFACING

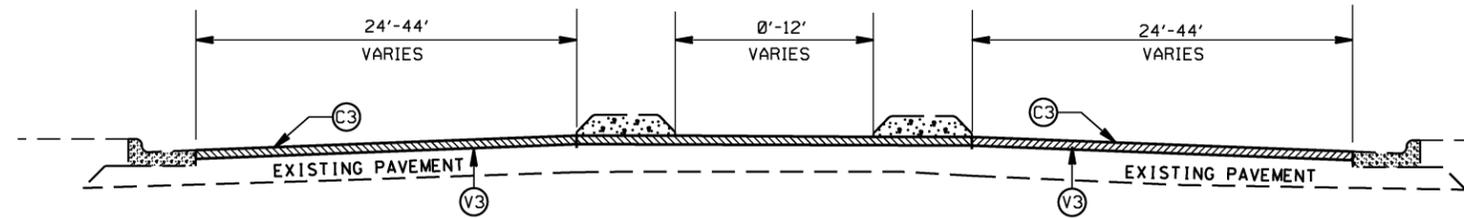
SCALE	-NA-
DATE	4/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



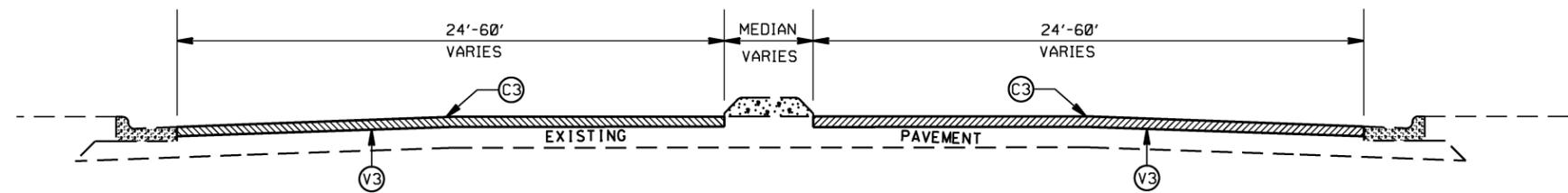
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			15
WBS NO.	2016CPT.10.22.1060.1		

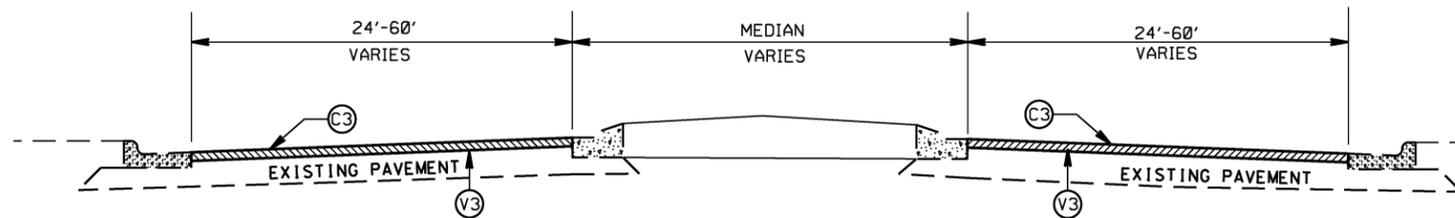
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 4



TYPICAL SECTION NO. 5



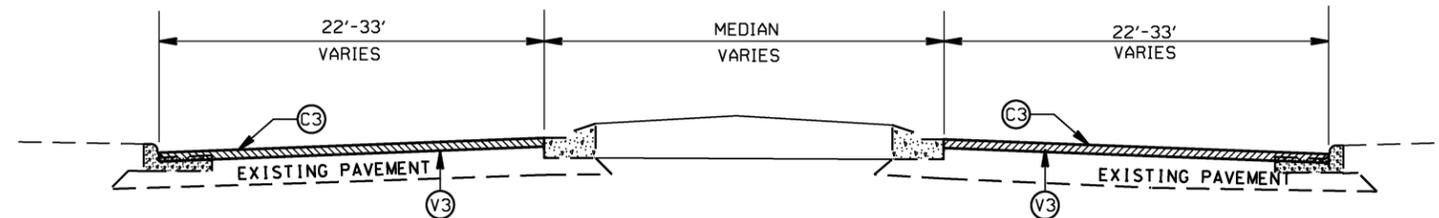
TYPICAL SECTION NO. 6

2016/2017 MECKLENBURG COUNTY
RESURFACING

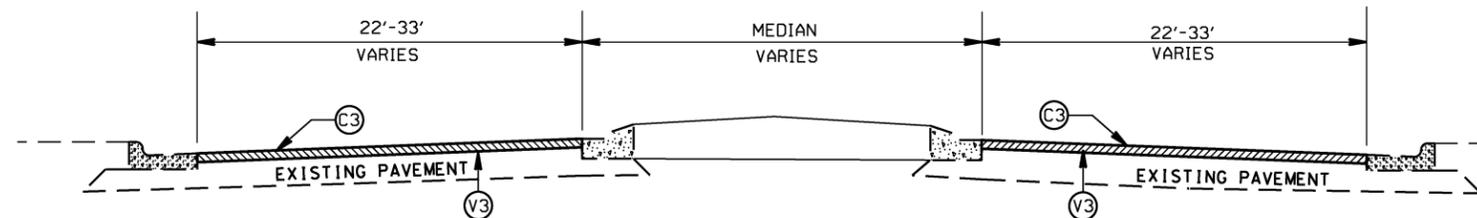
SCALE	-NA-		REVISIONS
DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			16
WBS NO.	2016CPT.J0.22.J060.J		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 7



TYPICAL SECTION NO. 8

2016/2017 MECKLENBURG COUNTY
RESURFACING

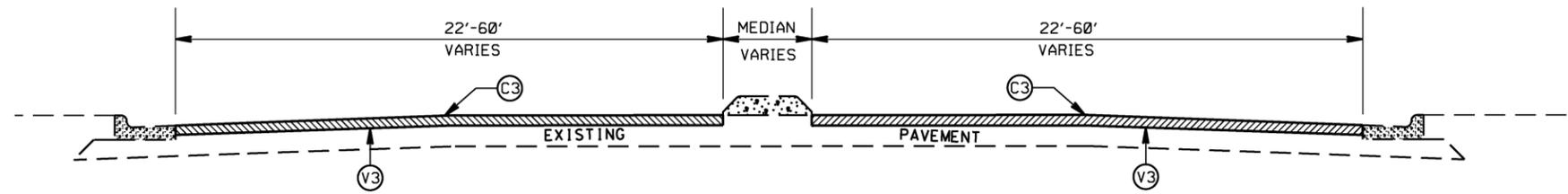
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DATE 4/16
DWG. BY TJP
DESIGN BY TJP
APPROVED WAT



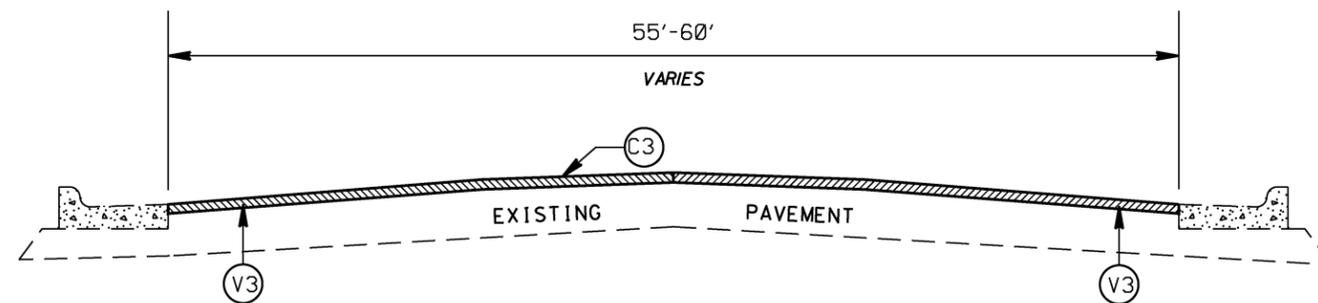
REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			17
WBS NO.	2016CPT.J0.22.J060.LI		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 9



TYPICAL SECTION NO. 10

2016/2017 MECKLENBURG COUNTY
RESURFACING

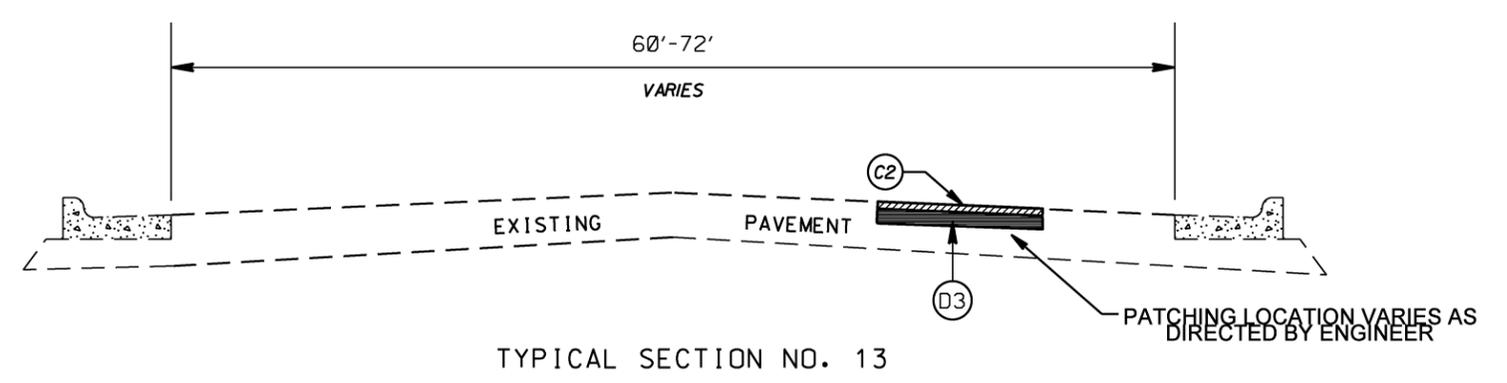
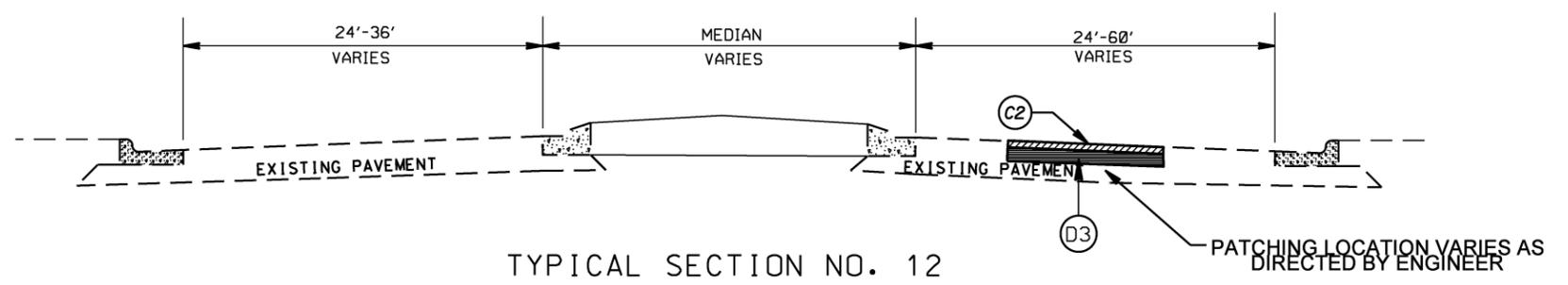
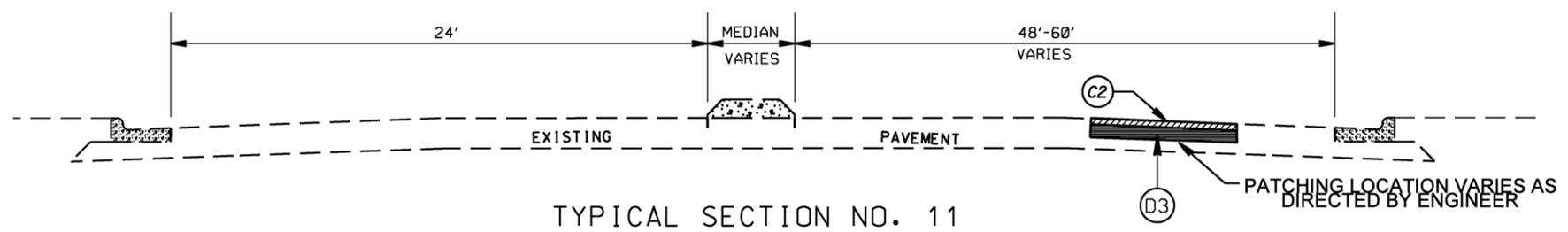
SCALE	-NA-
DATE	4/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			18
WBS NO.	2016CPT.J0.22.J060.LI		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH

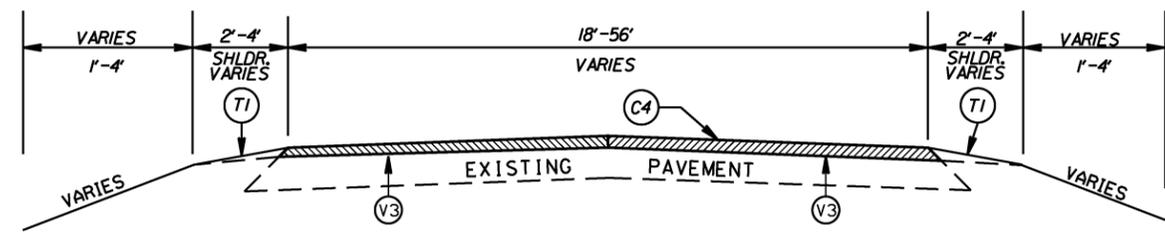


2016/2017 MECKLENBURG COUNTY
RESURFACING

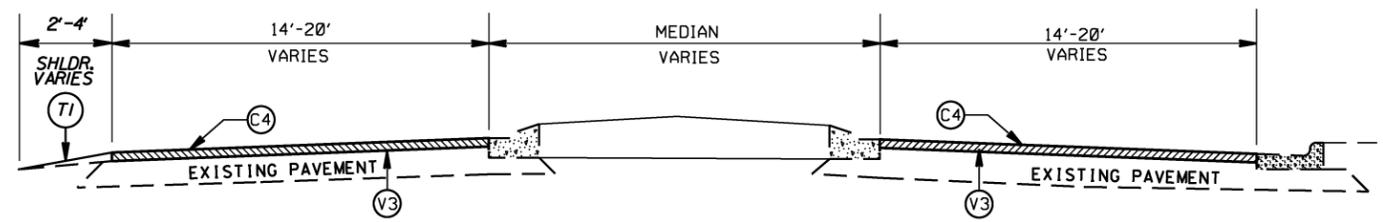
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DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			19
WBS NO.	2016CPT.J0.22.J060.LI		

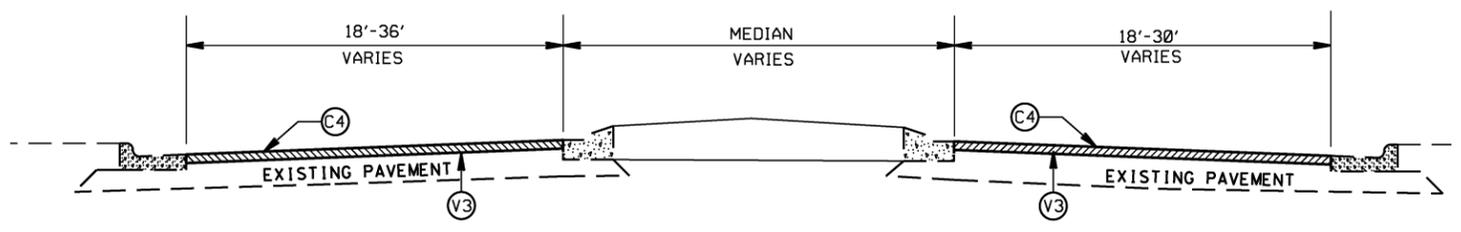
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 14



TYPICAL SECTION NO. 15



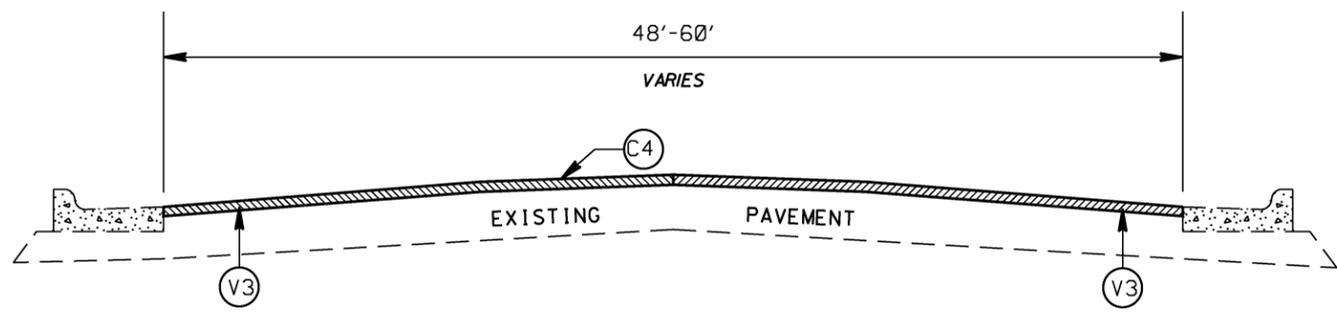
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2016/2017 MECKLENBURG COUNTY
RESURFACING

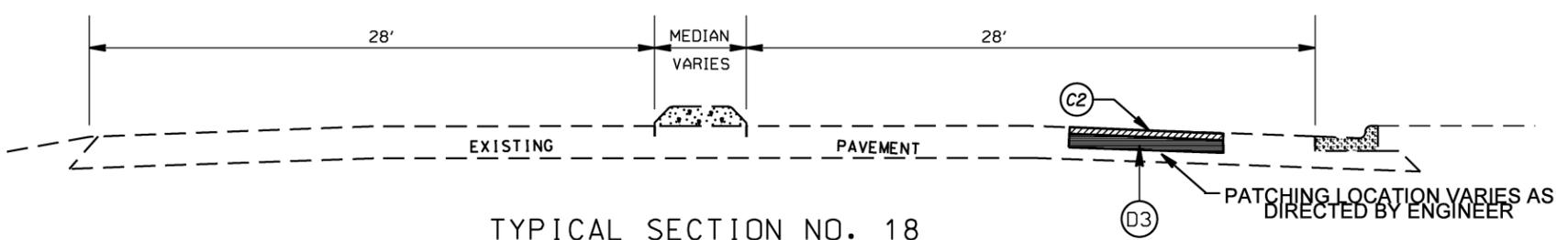
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DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			20
WBS NO.	2016CPT.10.22.10601J		

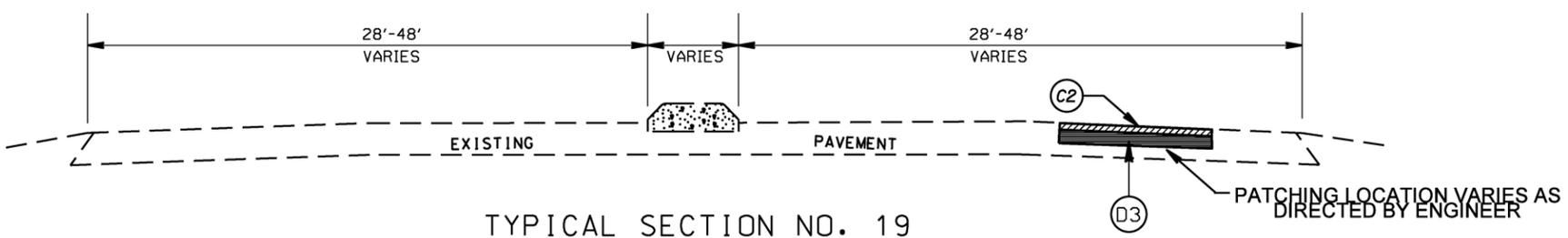
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 17



TYPICAL SECTION NO. 18



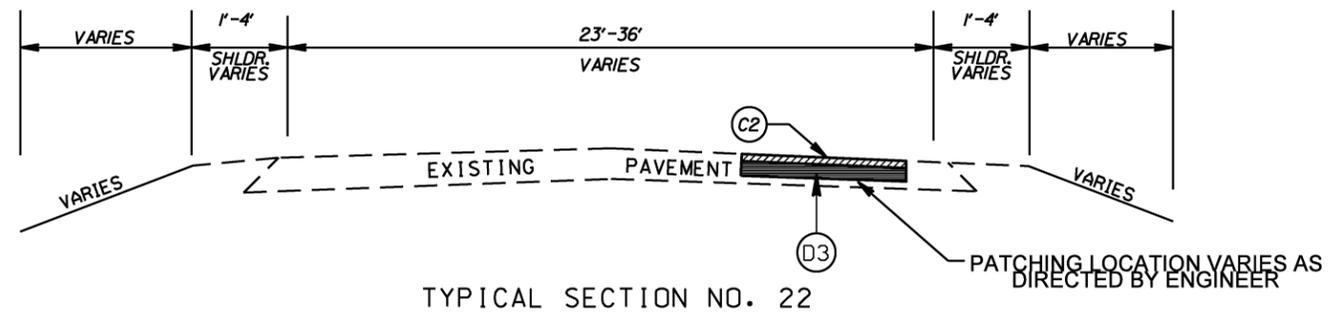
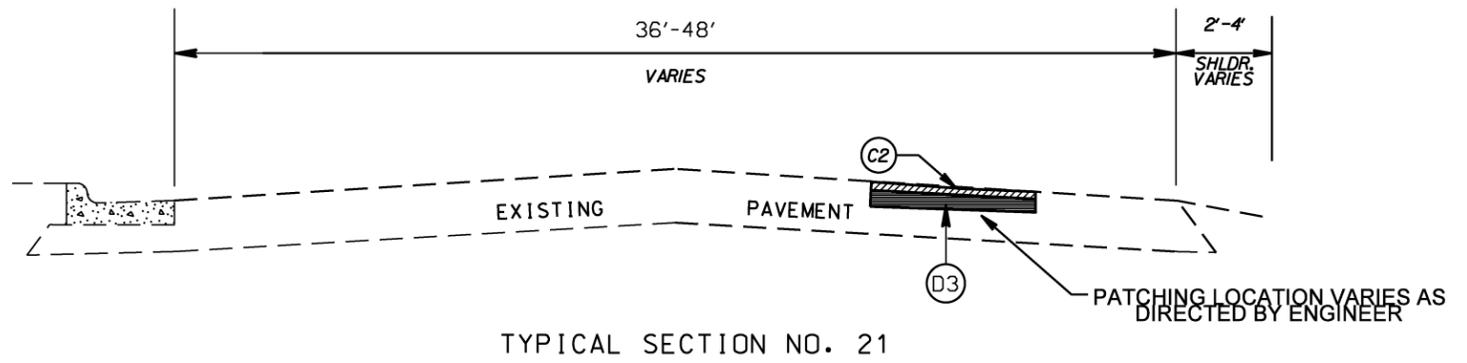
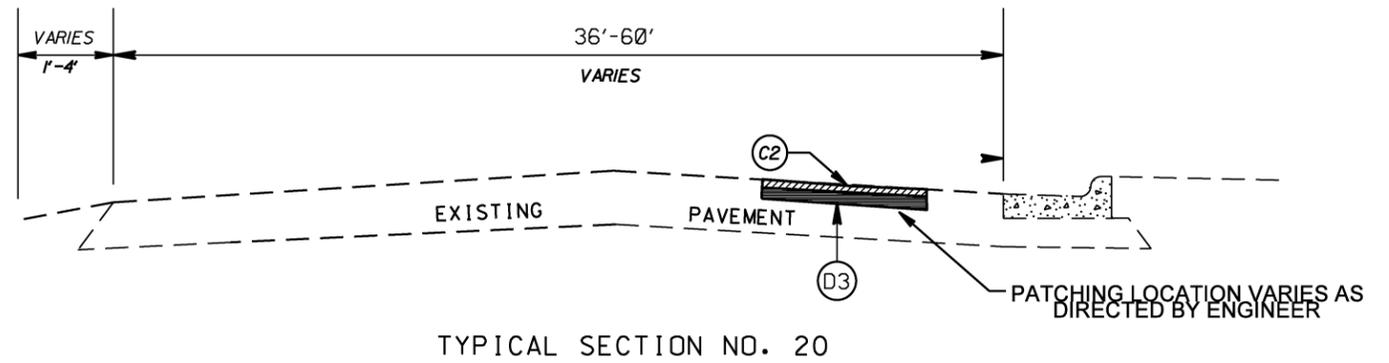
TYPICAL SECTION NO. 19

2016/2017 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS
DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		21	21
WBS NO.	2016CPT.10.22.10601J		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH

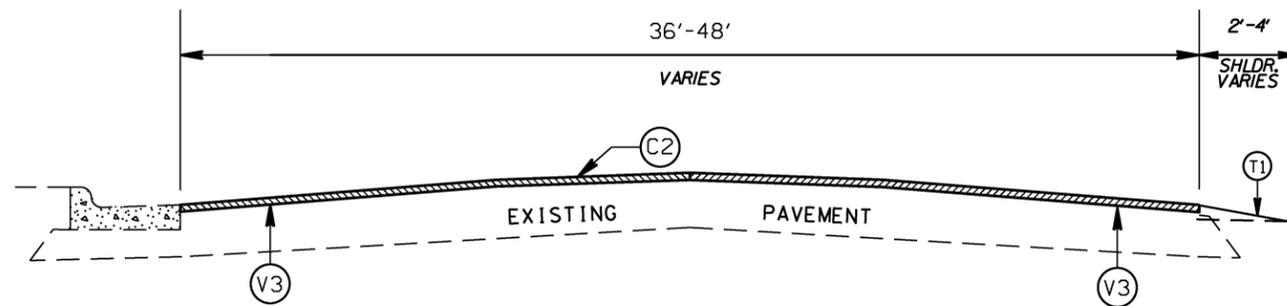


2016/2017 MECKLENBURG COUNTY RESURFACING

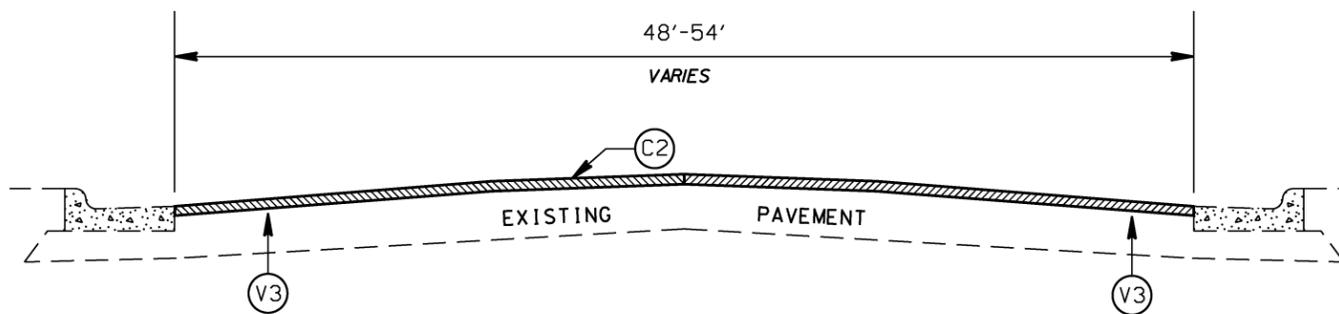
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DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			22
WBS NO.	2016CPT.10.22.10601J		

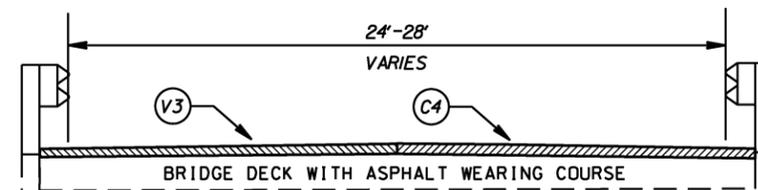
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 23



TYPICAL SECTION NO. 24



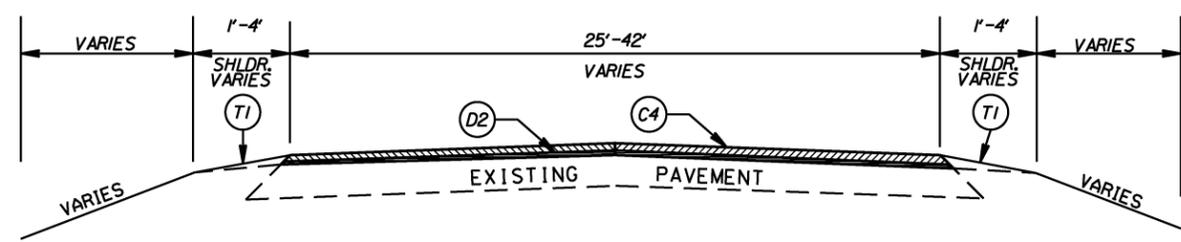
TYPICAL SECTION NO. 25

2016/2017 MECKLENBURG COUNTY
RESURFACING

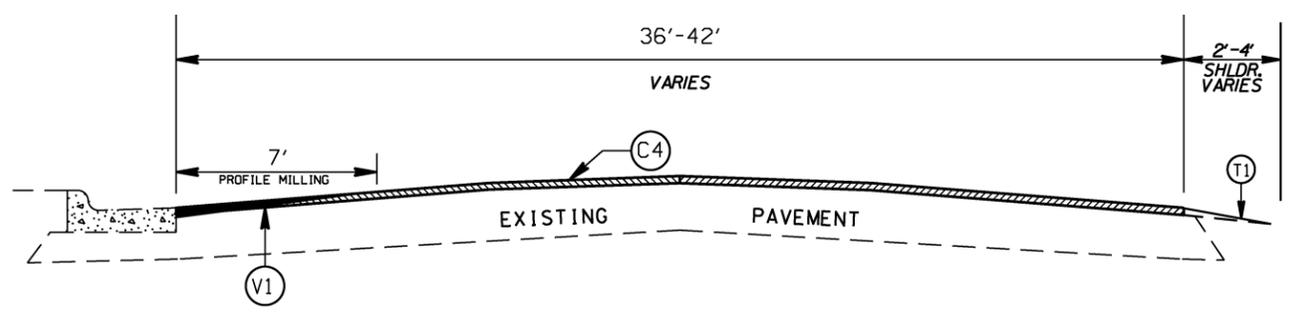
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DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		23	23
WBS NO.	2016CPT.J0.22.I060J		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 26



TYPICAL SECTION NO. 27

2016/2017 MECKLENBURG COUNTY RESURFACING

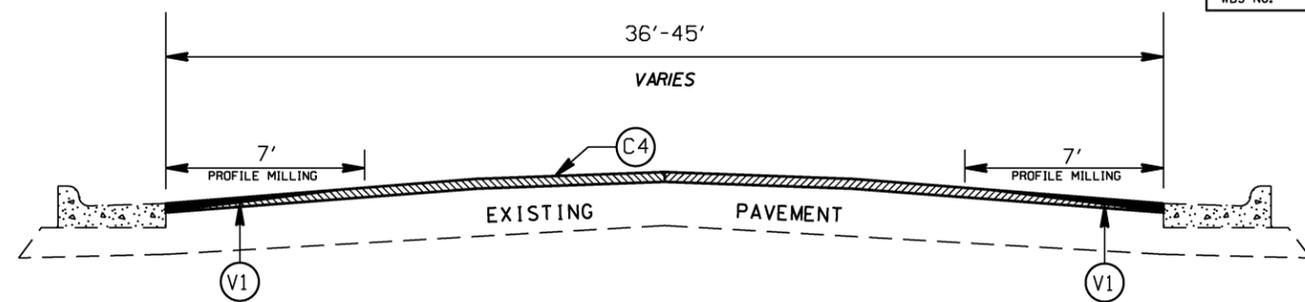
SCALE	-NA-
DATE	4/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



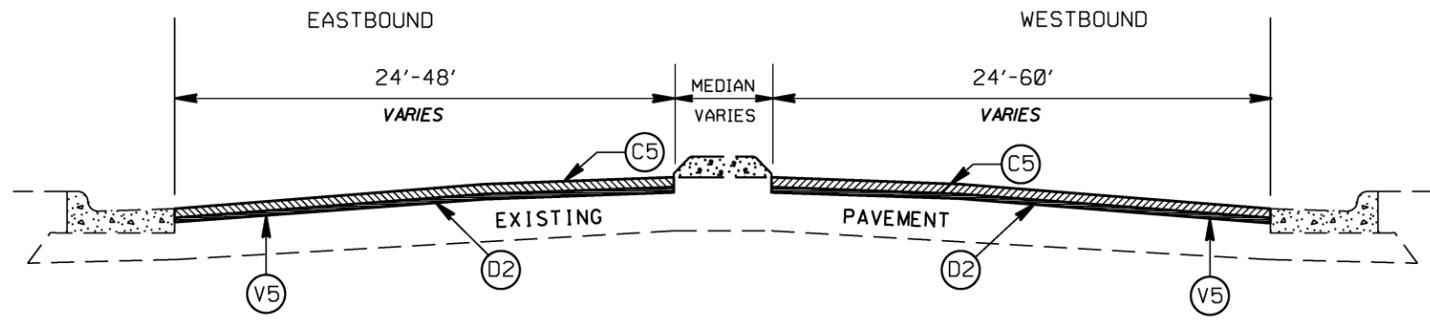
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		24	24
WBS NO.	2016CPT.I0.22.I060.I		

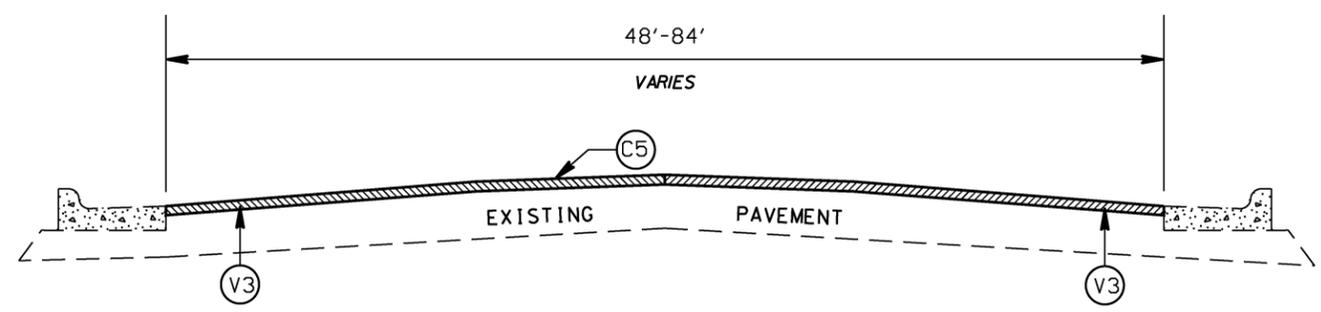
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 28



TYPICAL SECTION NO. 29



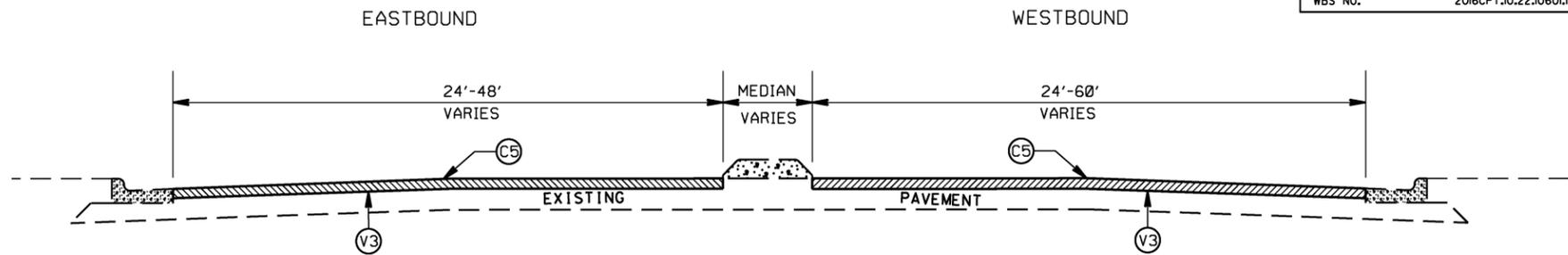
TYPICAL SECTION NO. 30

2016/2017 MECKLENBURG COUNTY
RESURFACING

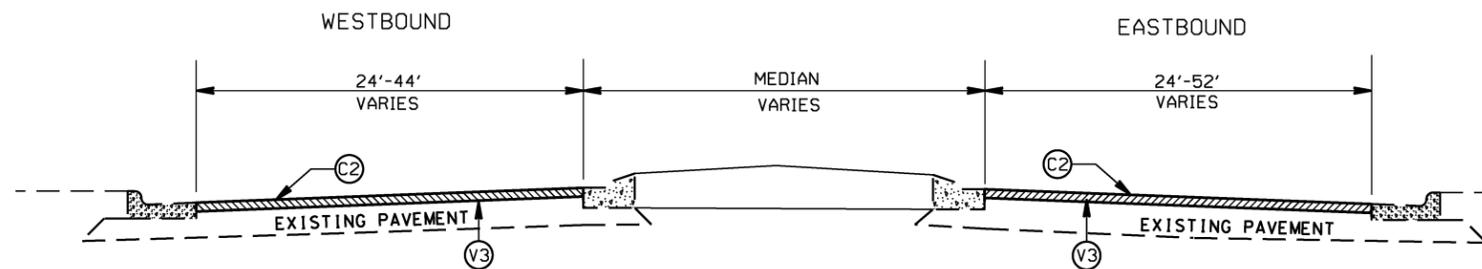
SCALE	-NA-		REVISIONS
DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		25	
WBS NO.		2016CPT.10.22.1060.I	

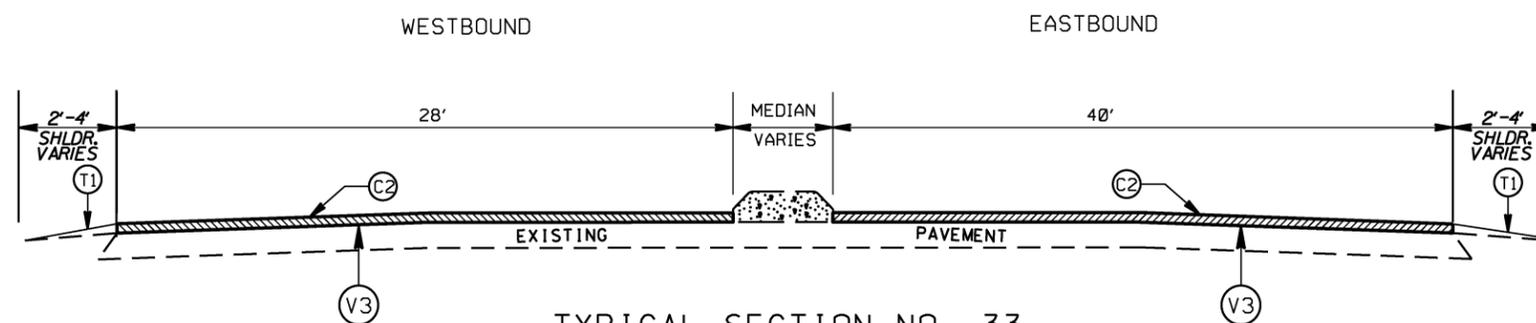
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 31



TYPICAL SECTION NO. 32



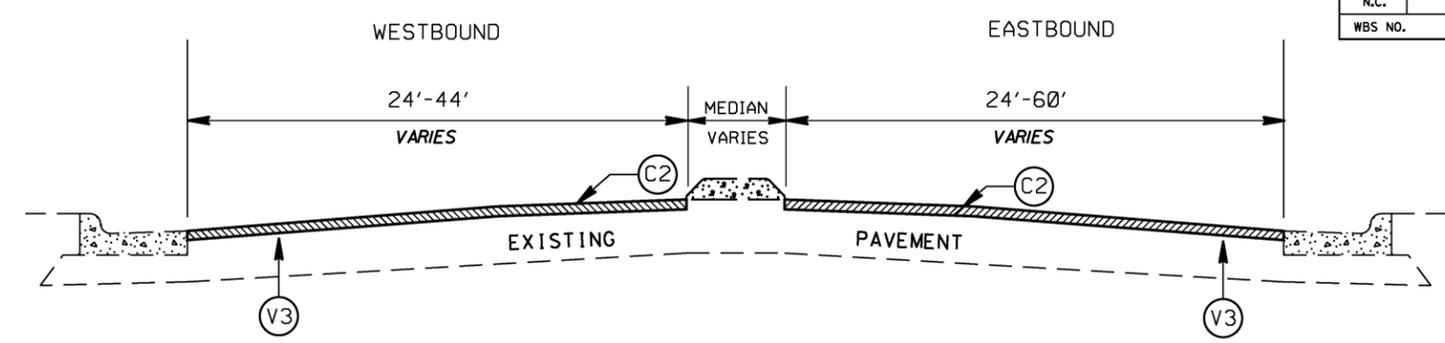
TYPICAL SECTION NO. 33

2016/2017 MECKLENBURG COUNTY
RESURFACING

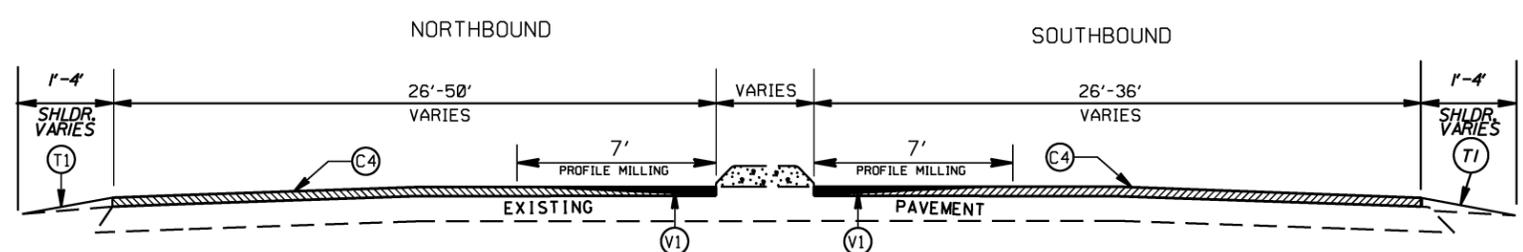
SCALE	-NA-		REVISIONS
DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			26
WBS NO.	2016CPT.J0.22.J060J		

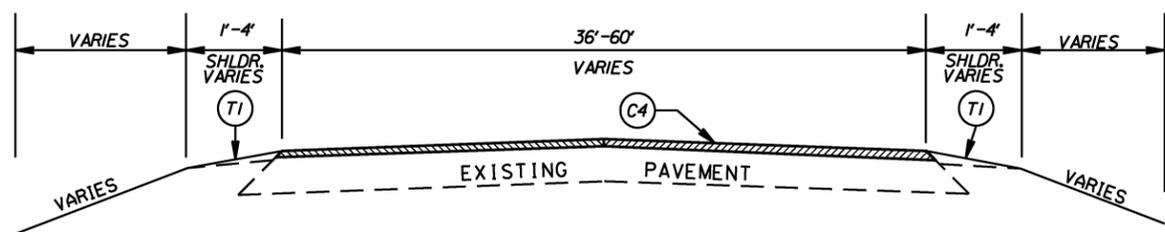
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 34



TYPICAL SECTION NO. 35

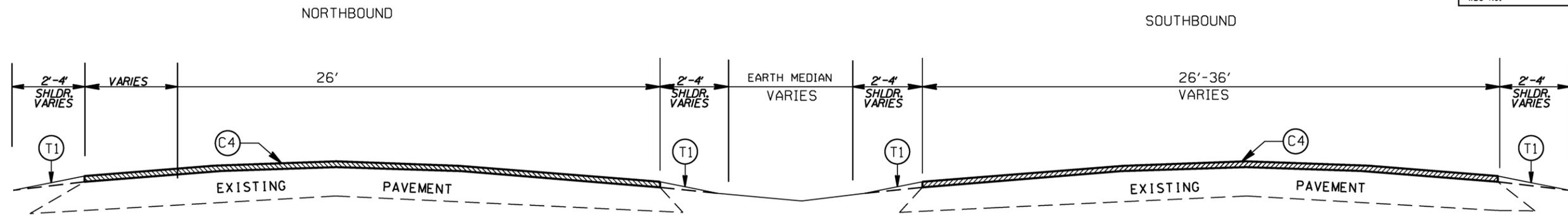


TYPICAL SECTION NO. 36

2016/2017 MECKLENBURG COUNTY
RESURFACING

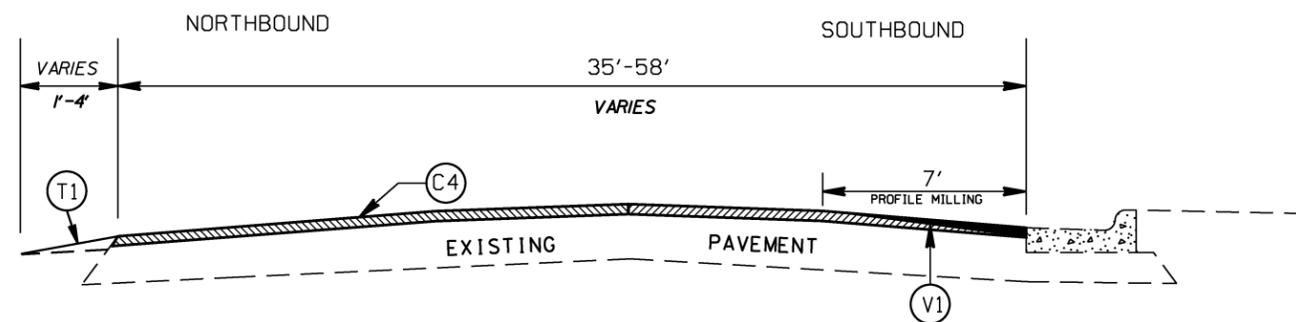
SCALE	-NA-		REVISIONS
DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			27
WBS NO.	2016CPT.J0.22.J0601.I		

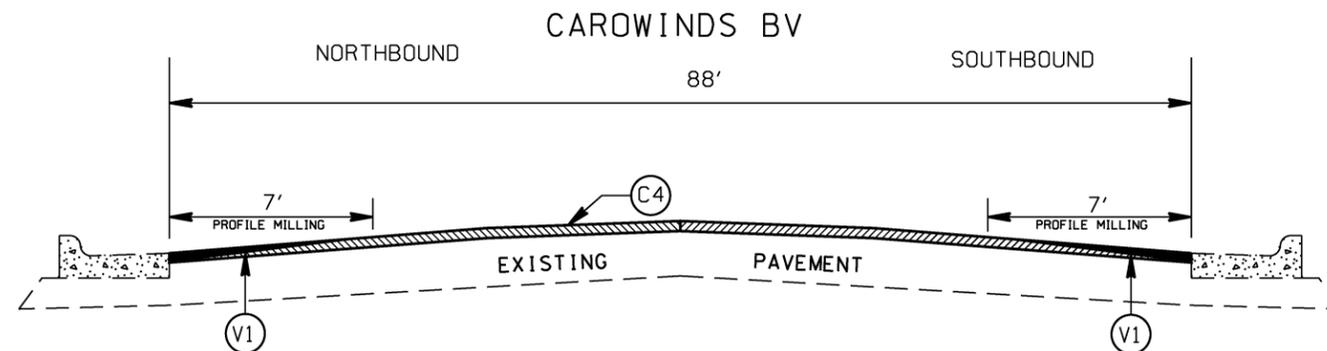


TYPICAL SECTION NO. 37

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH



TYPICAL SECTION NO. 38



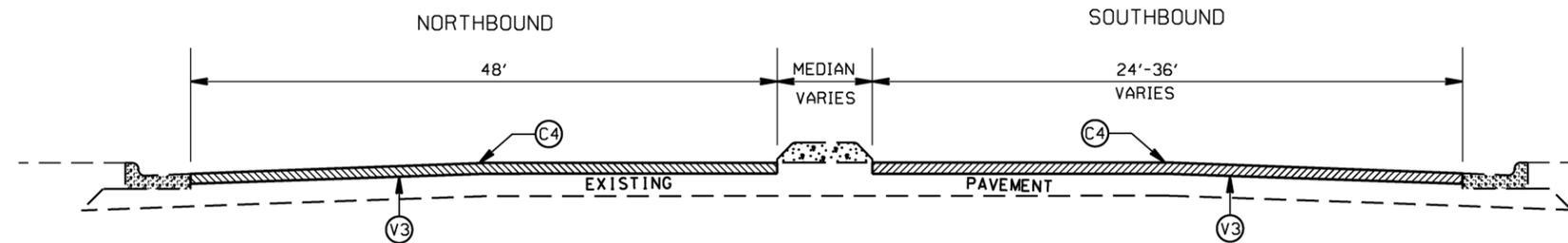
TYPICAL SECTION NO. 39

2016/2017 MECKLENBURG COUNTY
RESURFACING

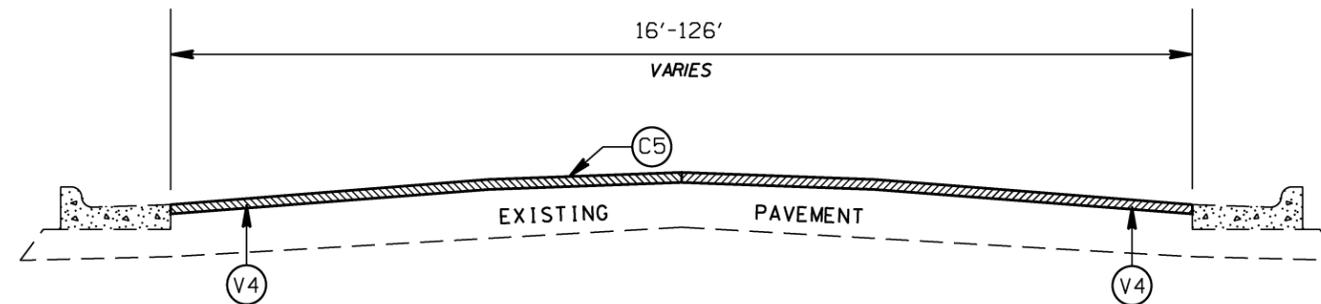
SCALE	-NA-		REVISIONS	
DATE	4/16			
DWG. BY	TJP			
DESIGN BY	TJP			
APPROVED	WAT			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			28
WBS NO.	2016CPT.10.22.10601J		

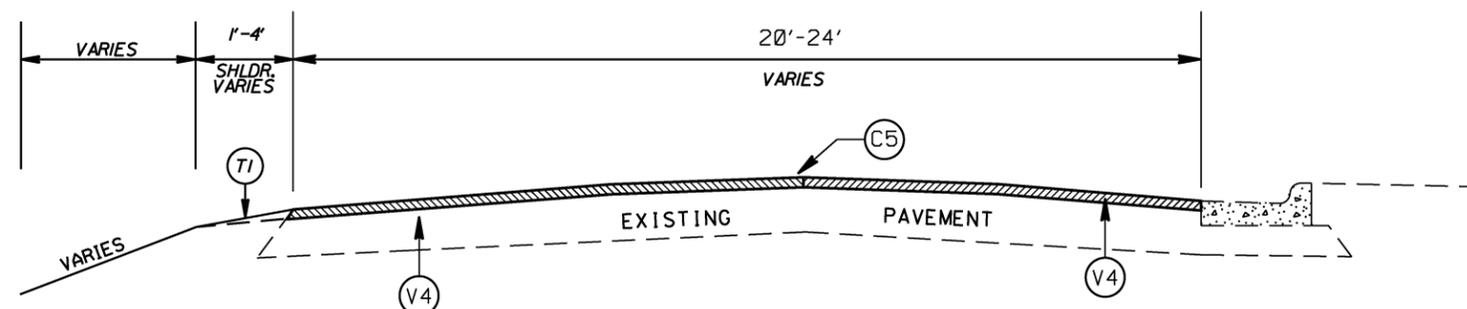
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 40



TYPICAL SECTION NO. 41



TYPICAL SECTION NO. 42

2016/2017 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	4/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT

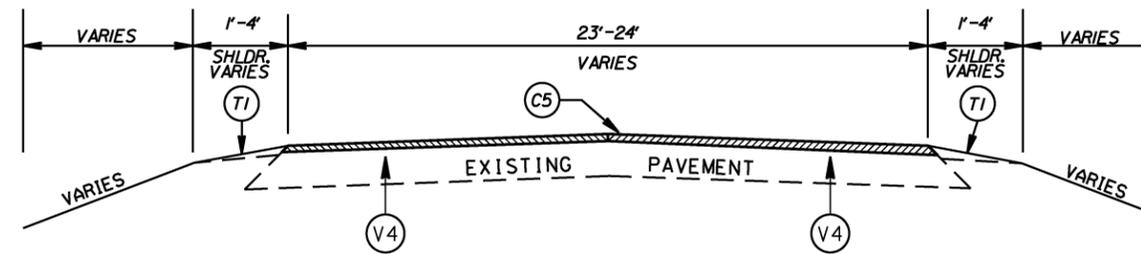


REVISIONS	

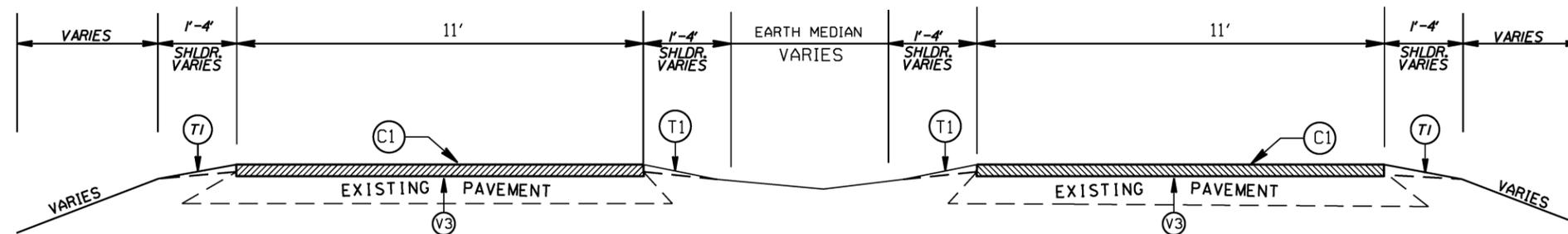
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			29
WBS NO.	2016CPT.J0.22.J060LJ		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH

RST 4619



TYPICAL SECTION NO. 43



TYPICAL SECTION NO. 44

2016/2017 MECKLENBURG COUNTY
RESURFACING

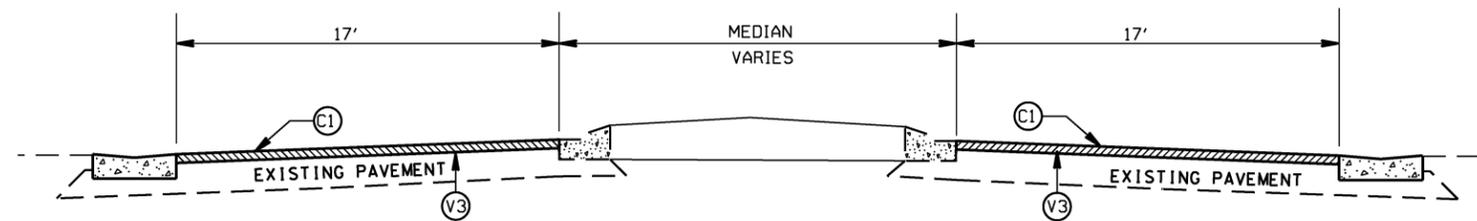
SCALE -NA-
DATE 4/16
DWG. BY TJP
DESIGN BY TJP
APPROVED WAT



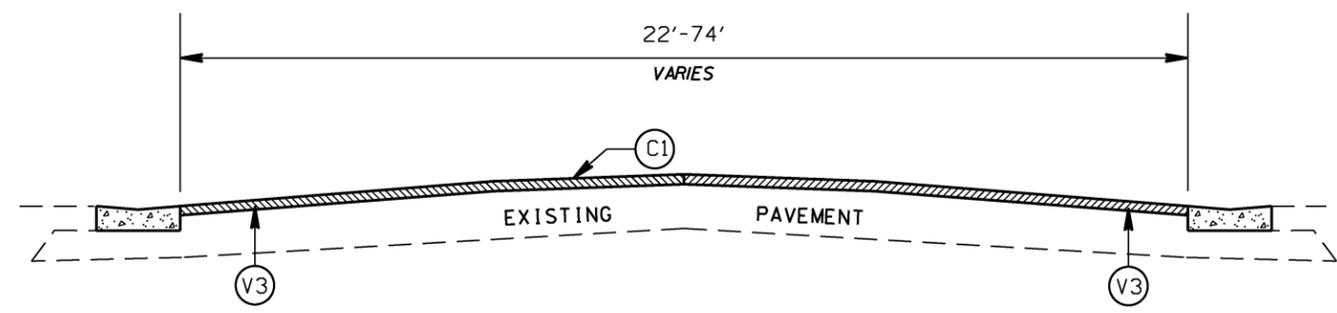
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			30
WBS NO.		2016CPT.10.22.10601	

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 45



TYPICAL SECTION NO. 46

2016/2017 MECKLENBURG COUNTY RESURFACING

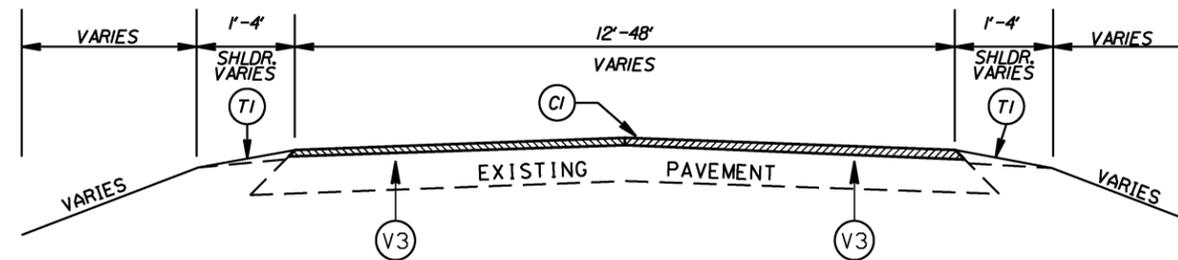
SCALE	-1A-
DATE	4/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



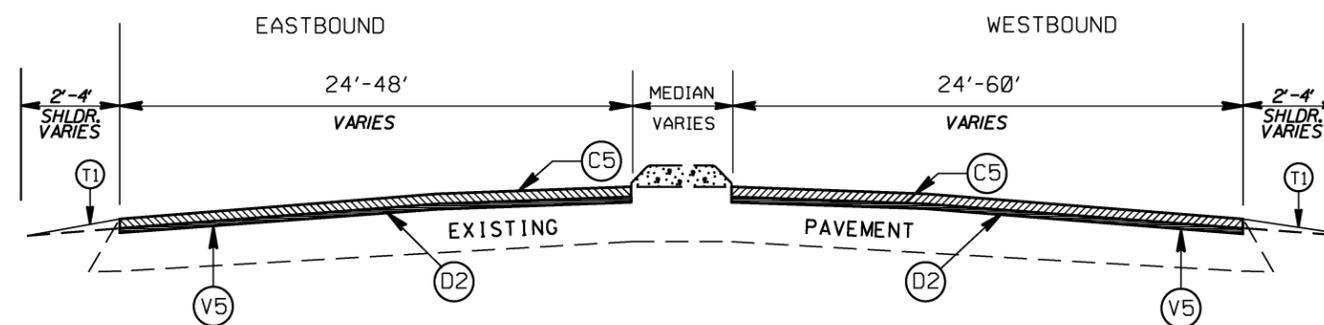
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			31
WBS NO.	2016CPT.10.22.1060LJ		

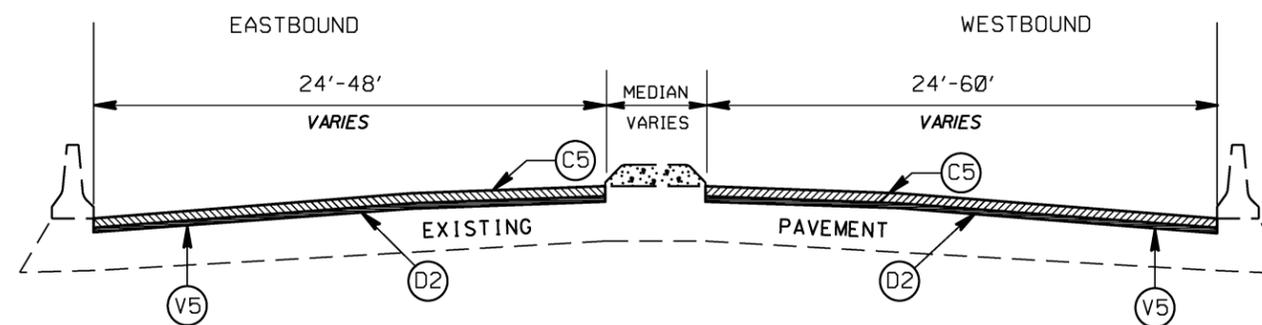
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D3	PROP. ASPHALT CONCRETE INTERMEDIATE COURSE FOR PAVEMENT REPAIR AT A VARIABLE DEPTH WITH AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
T1	SHOULDER RECONSTRUCTION
V1	PROFILE MILLING 0" TO 1.5"
V3	MILLING 1.5" DEPTH
V4	MILLING 2.0" DEPTH
V5	MILLING 4" DEPTH



TYPICAL SECTION NO. 47



TYPICAL SECTION NO. 49



TYPICAL SECTION NO. 50

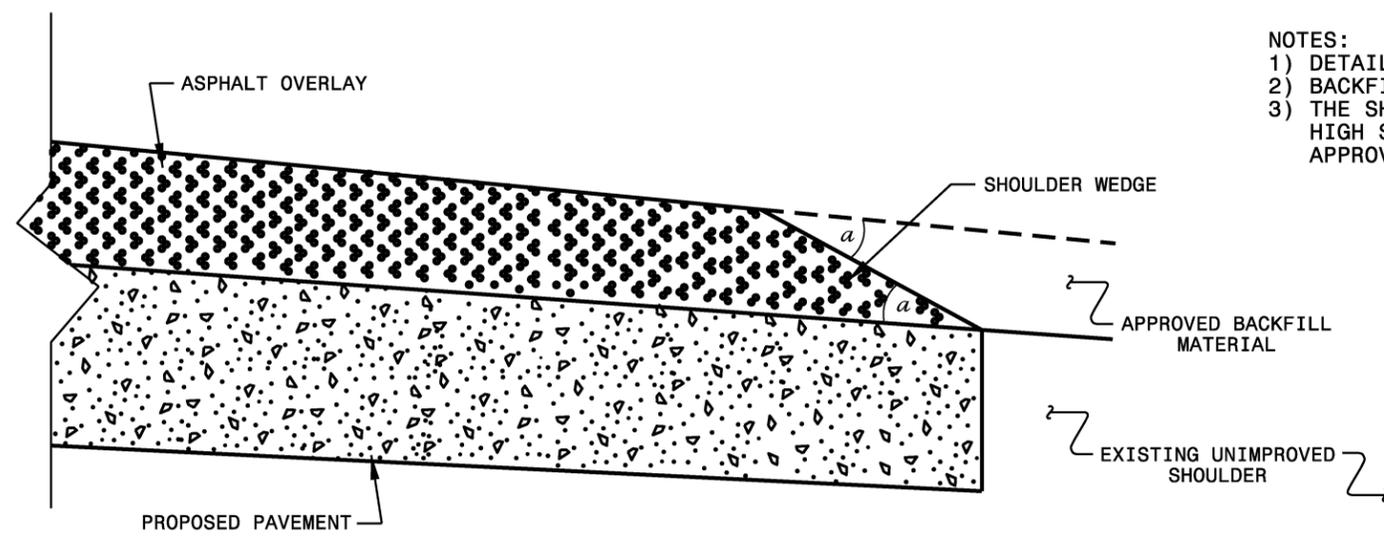
TYPICAL NO. 48 IS ON SHEET 12

2016/2017 MECKLENBURG COUNTY
RESURFACING

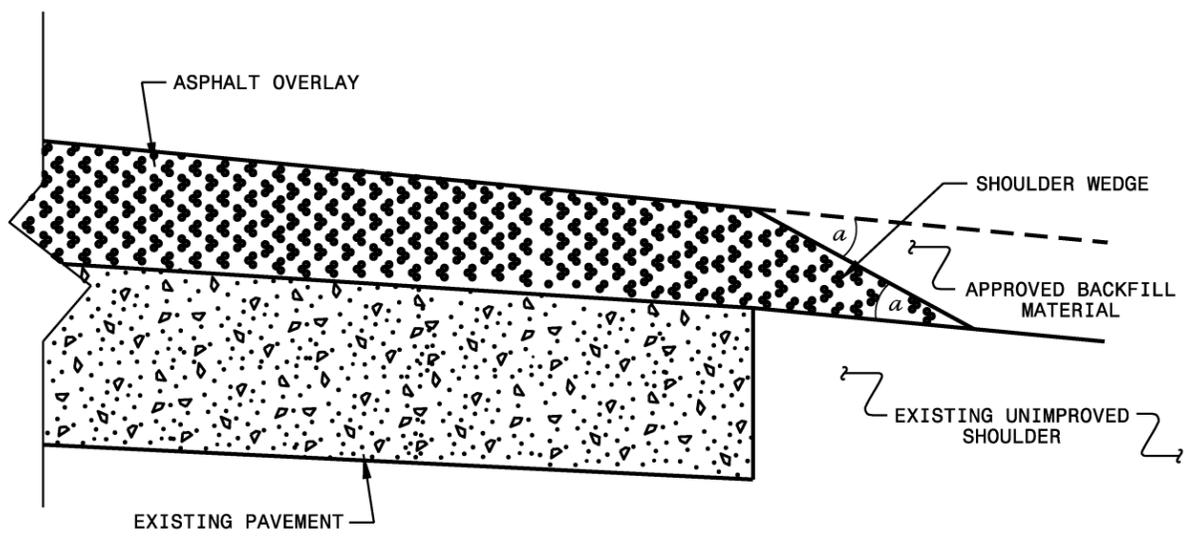
SCALE	-NA-		REVISIONS
DATE	4/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

etc

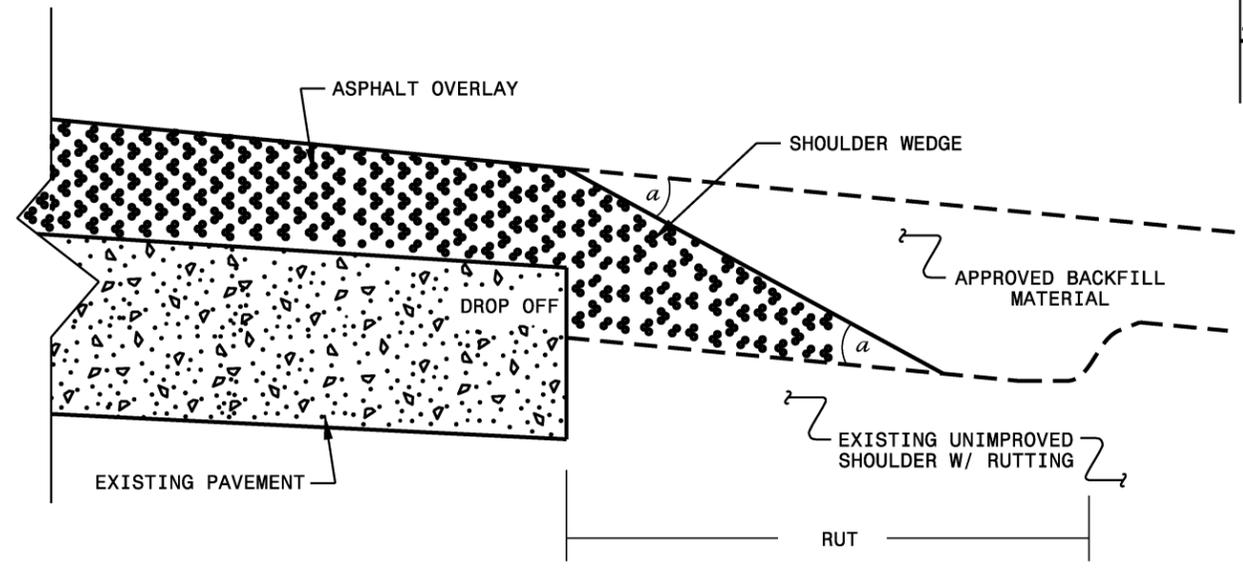
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFS AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ Widening or
 with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS
 AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

**SHOULDER WEDGE
 DETAILS**

ORIGINAL BY: T.SPELL DATE: 7-19-11
 MODIFIED BY: DATE: 2/2/16
 CHECKED BY: DATE:
 FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn

09-MAY-2016 13:44
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 P:\porter A1_CSD-292392

SUMMARY OF QUANTITIES

PROJECT NO. 2016CPT.10.22.10601.1, etc	SHEET NO. 33	TOTAL NO.
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PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANE S	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	SHOULDER CONSTRUCTION SMI	1 1/2" MILLING SY	4" MILLING SY	2" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0C TONS	INTERMEDIATE COURSE, I19.0C TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, S9.5C TONS	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A TON	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TON	RETROFIT EXISTING CURB RAMP EA	6" DRIVEWAYS SY	ADJ. OF CATCH BASINS EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOXES EA	PORTABLE LIGHTING LS	TEMP. SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TN	SEDIMENT CONTROL STONE TN	WATTLE LF	POLY-ACRYLAMIDE (PAM) LB	
2016CPT.10.22.10601.1	Mecklenburg	1	NC 16 NORTHBOUND	I-485 TO NC 51	1,2,3,4,5,6	2	MD	NO	NO	2.96	30.8	38		0.38		53,485							6,625				398	165	38			8	15	*	222	30	15	44	1	
2016CPT.10.22.10601.1	Mecklenburg	2	NC 16 SOUTHBOUND	NC 51 TO I-485	1,2,3,4,5,6	2	MD	NO	NO	2.96	33.3					57,827						7,160				430	55	4			8	2	*	222	30	15	44	1		
TOTAL FOR PROJ NO. 2016CPT.10.22.10601.1										5.92		38		0.38		111,312							13,785				828	220	42			16	17		444	60	30	88	2	
2016CPT.10.22.10601.2	Mecklenburg	3	NC 16 NB PROVIDENCE RD	OLD PROVIDENCE TO SARDIS RD	7,8,9,10	2	MD	NO	NO	1.38	27.2					22,021						2,730				164	55	2			3	5	6	*	105	28	8	21	1	
2016CPT.10.22.10601.2	Mecklenburg	4	NC 16 SB PROVIDENCE RD	SARDIS RD TO OLD PROVIDENCE RD	7,8,9,10	2	MD	NO	NO	1.38	25.2					20,417						2,530				152	55	2			5	2	1	*	105	15	8	21	1	
TOTAL FOR PROJ NO. 2016CPT.10.22.10601.2										2.76						42,438							5,260				316	110	4			8	7	7		210	43	16	42	2
2016CPT.10.22.10601.3	Mecklenburg	5	NC 51	SARDIS RD TO MONROE RD	11,12,13	4	MU	NO	NO	0.71	62.7															1,540					2	2	*	107	14	7	22	1		
TOTAL FOR PROJ NO. 2016CPT.10.22.10601.3										0.71																	1,540					2	2		107	14	7	22	1	
2016CPT.10.22.10601.4	Mecklenburg	6	NC 51 MATTHEWS MINT HILL RD	FROM NC 218 TO ROBIN HOLLOW DR	14,15,16,17	4	MU	NO	NO	1.43	48	70		0.94		40,366										3,731	330							*	215	29	14	43	1	
TOTAL FOR PROJ NO. 2016CPT.10.22.10601.4										1.43		70		0.94		40,366											3,731	330							215	29	14	43	1	
2016CPT.10.22.20601.1	Mecklenburg	7	SR 1010 E. JOHN ST	S. TRADE ST TO UNION CO. LINE	18,19,20,21,22,23,24	2	2WU	NO	NO	2.3	36.8	2	175	0.01		7,000							4,604				276	495				2	3	*	100	20	10	20	1	
TOTAL FOR PROJ NO. 2016CPT.10.22.20601.1										2.3	36.8	2	175	0.01		7,000								4,604				276	495				2	3		100	20	10	20	1
2016CPT.10.22.20601.2	Mecklenburg	8	SR 1126 NATIONS FORD RD	FROM WESTINGHOUSE BV TO SC STATE LINE	26,27,28,25	2	2WU	NO	NO	1.38	27.8	528	25	2.70		100			185	450		3,554		2,089		294	1,100			10										
TOTAL FOR PROJ NO. 2016CPT.10.22.20601.2										1.38	27.8	528	25	2.70		100			185	450		3,554		2,089		294	1,100			10										
2016CPT.10.22.20601.3	Mecklenburg	9	SR 1128 WESTINGHOUSE BV	FROM CULP RD TO GRANITE ST	29,30,31,48,49,50	4	MU	NO	NO	1.53	52	80		0.74	0.06	37,707	9,000			80	50	1,430		6,545		457	660	18							*	230			46	1
TOTAL FOR PROJ NO. 2016CPT.10.22.20601.3										1.53		80		0.74	0.06	37,707	9,000			80	50	1,430		6,545		457	660	18							230			46	1	
2016CPT.10.22.20601.4	Mecklenburg	10	SR 1138 ARROWOOD	FROM I-485 TO NC 49	32,33,34	2	MD	NO	NO	1.41	32.6	5		0.06		26,967						2,501				150	220					1								
2016CPT.10.22.20601.4	Mecklenburg	11	SR 1138 ARROWOOD	FROM NC 49 TO I-485	32,33,34	2	MD	NO	NO	1.41	31	5		0.06		25,643						2,379				143	220													
TOTAL FOR PROJ NO. 2016CPT.10.22.20601.4										2.82		10		0.12		52,610							4,880				293	440					1			424	56	28	86	2
2016CPT.10.22.20601.5	Mecklenburg	12	SR 1441 CAROWINDS	FROM NC 49 TO SC STATE LINE	35,36,37,38,39,40	3	MU	NO	NO	1.44	48.5	200		2.71		4,100			2,550	380				3,796	1,012		290	550	3	40				*	215	28	14	43	1	
TOTAL FOR PROJ NO. 2016CPT.10.22.20601.5										1.44	48.5	200		2.71		4,100			2,550	380				3,796	1,012		290	550	3	40				215	28	14	43	1		
2016CPT.10.22.20601.6	Mecklenburg	13	SR 4039 LULLINGSTONE RD	FROM LANCASTER HWY TO CUL-DE-SAC	45,46	2	2WU	NO	NO	0.18	42					4,435										404	27	330				1								
2016CPT.10.22.20601.6	Mecklenburg	14	SR 4040 EGGLESTONE DR	FROM LULLINGSTONE RD TO BUXTON DR	46,47	2	2WU	NO	NO	0.35	23	50	35	0.68		4,723										431	29	440	20		3									
2016CPT.10.22.20601.6	Mecklenburg	15	SR 4041 IRONGRAY CT	FROM EGGLESTONE DR TO END OF MAINTENANCE	47	2	2WU	NO	NO	0.04	12.3	8		0.10		289										26	2													
2016CPT.10.22.20601.6	Mecklenburg	16	SR 4042 TWEEDSMUIR DR	FROM EGGLESTONE DR TO EGGLESTONE DR	47	2	2WU	NO	NO	0.19	23.5	28		0.37		2,624										239	16	165	30		1									
2016CPT.10.22.20601.6	Mecklenburg	17	SR 4043 BUXTON DR	FROM LULLINGSTONE DR TO END OF MAINTENANCE	44,46,47	2	2WU	NO	NO	0.31	24.3	45	15	0.61		4,419										403	27	440	40		4									
2016CPT.10.22.20601.6	Mecklenburg	18	SR 4044 HEINSBURY PL	FROM EGGLESTONE TO DEAD END	47	2	2WU	NO	NO	0.03	20.7	6		0.07		364										33	2		10											
TOTAL FOR PROJ NO. 2016CPT.10.22.20601.6										1.1		137	50	1.83		16,854										1,536	103	1,375	100		9				176	23	12	42	6	
2016CPT.10.22.10601.5	Mecklenburg	19	RST 4619	REST AREA RD FROM I-77 EXIT TO I-77 ENTRANCE RAMP	41,42,43	2	2WU	NO	NO	0.77	24	105		1.07													79								*	116	16	8	23	1
2016CPT.10.22.10601.5	Mecklenburg	20	RST4621 REST AREA TRUCK PARKING	TRUCK PARKING AREA OF REST AREA	41,42	2	2WU	NO	NO	0.14	78	2		0.02		6,406											47													
2016CPT.10.22.10601.5	Mecklenburg	21	RST4620 REST AREA CAR PARKING AREA	CAR PARKING AREA OF REST AREA	41,42	2	2WU	NO	NO	0.15	39	11		0.11		3,432											25													
TOTAL FOR PROJ NO. 2016CPT.10.22.10601.5										1.06		118		1.20		20,680											425									160	22	12	32	3
GRAND TOTAL										22.45		1,183	250	10.63	0.06	312,487	9,000	20,680	2,735	910	50	4,984	28,529	18,722	1,342	1,536	3,250	7,040	75	150	8	48	29	1	2,488	323	157	505	21	

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.01 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING 1101.01 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL. ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A TRAVEL LANE OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

E) DO NOT INSTALL MORE THAN 1 MILE (5280 FT) OF LANE CLOSURE ON I-77 NB MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

TRAFFIC PATTERN ALTERATIONS

F) NOTIFY THE ENGINEER TWENTY-ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

G) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

H) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

I) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTION 1130 (DRUMS) FOR ADDITIONAL REQUIREMENTS.

J) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVEL WAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

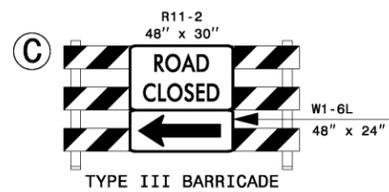
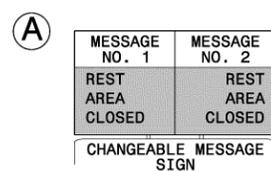
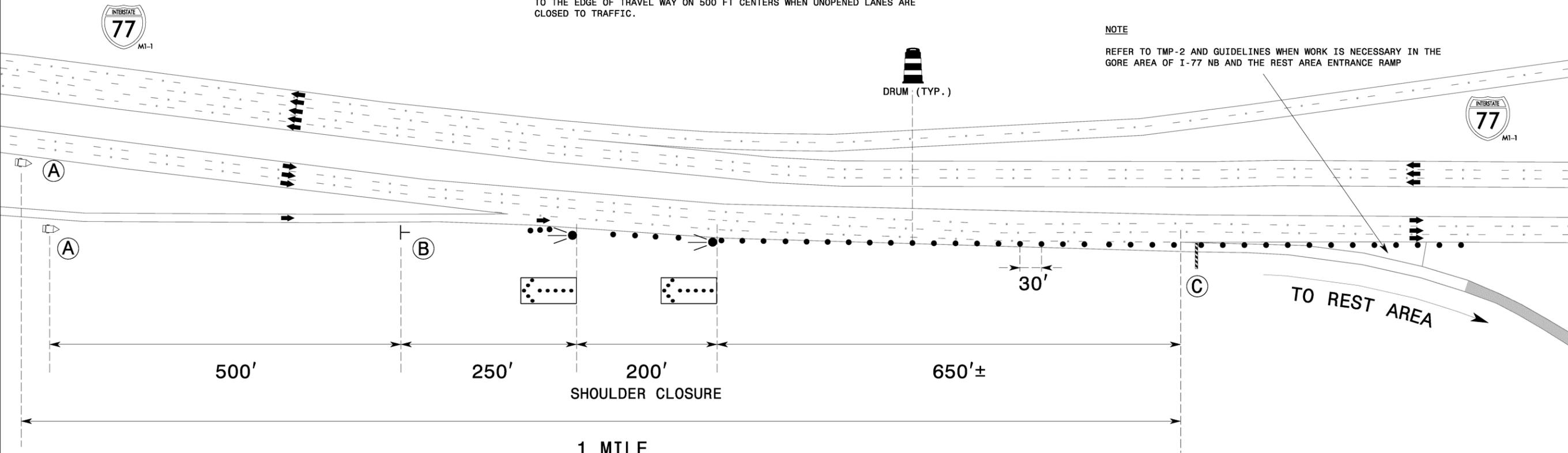
GUIDELINES

1. ADHERE TO INTERMEDIATE CONTRACT TIMES FOR HOLIDAY AND LANE CLOSURE TIME RESTRICTIONS ON I-77 NB AND THE REST AREA AT ALL TIMES DURING CONSTRUCTION.
2. USE RSD 1101.01, SHEET 3 OF 3, FOR ADVANCE WORK ZONE WARNING SIGNS AND LOCATIONS.
3. USE RSD 1101.02, SHEET 4 & 9 OF 15, FOR ADDITIONAL SIGNS AND LOCATIONS TO CLOSE THE I-77 NB TRAVEL LANE DURING GORE AREA WORK.
4. ACTIVATE CHANGEABLE MESSAGE SIGNS INDICATING REST AREA IS CLOSED SIMULTANEOUSLY WITH CLOSING THE ENTRANCE RAMP TO THE REST AREA. ADHERE TO THE FIVE (5) DAY TIME RESTRICTION FOR REST AREA CLOSURE ACCORDING TO INTERMEDIATE CONTRACT TIMES.
5. READJUST DRUMS AND/OR BARRICADES PER TMP-2 WHEN THE I-77 NB TRAVEL LANE IS CLOSED AND KEEP THE REST AREA RAMP CLOSED AS NECESSARY.
6. READJUST DRUMS AND/OR BARRICADES WHEN THE I-77 NB TRAVEL LANE IS CLOSED AND KEEP THE REST AREA RAMP CLOSED AS NECESSARY (REFER TO TMP-1).



NOTE

REFER TO TMP-2 AND GUIDELINES WHEN WORK IS NECESSARY IN THE GORE AREA OF I-77 NB AND THE REST AREA ENTRANCE RAMP



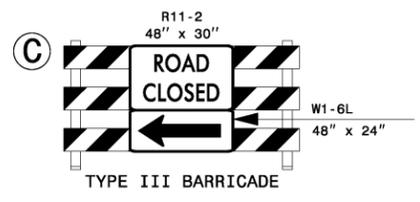
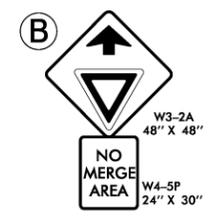
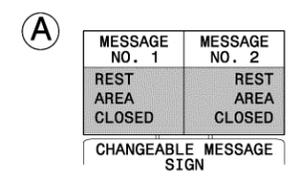
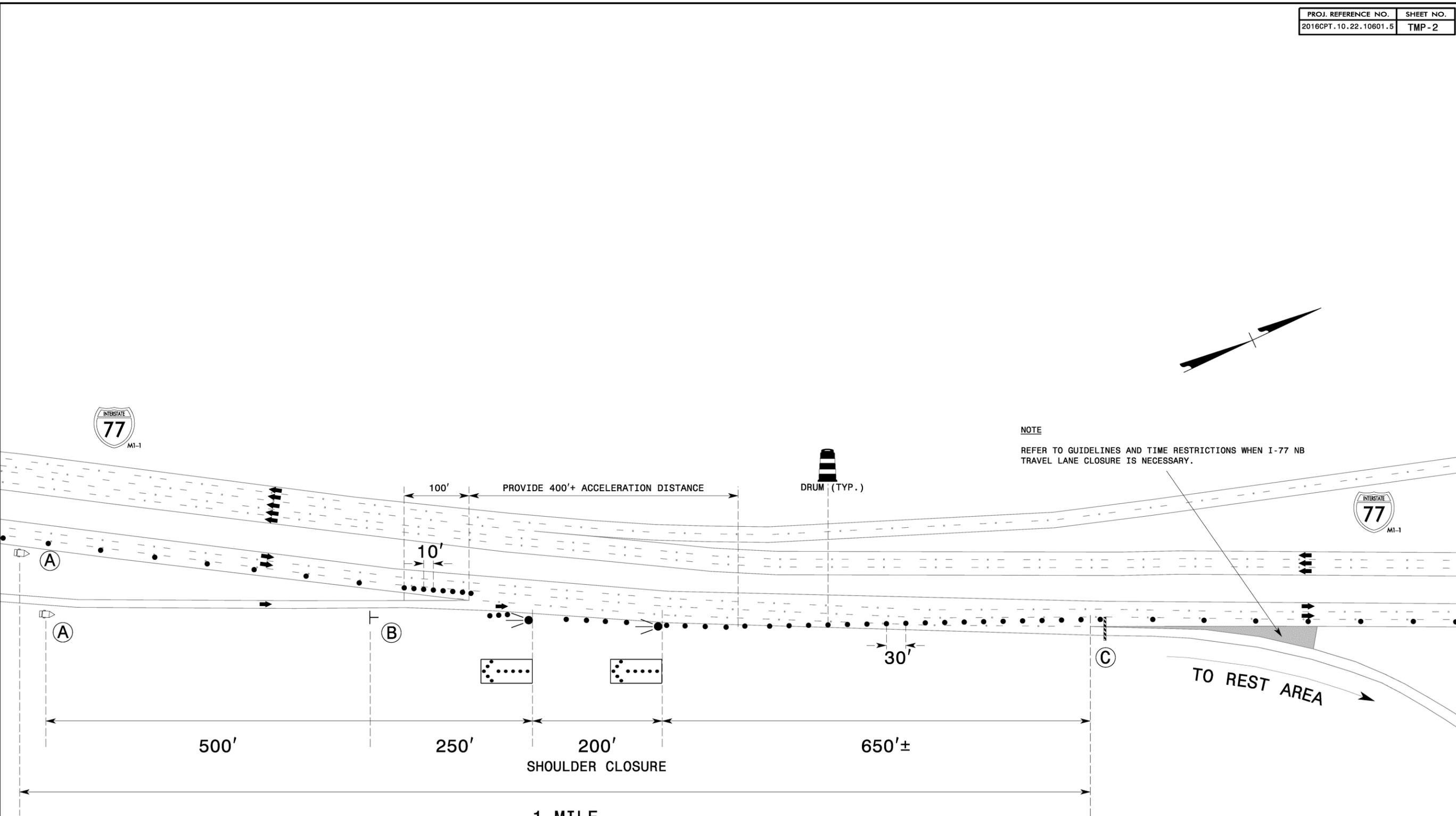
APPROVED: *J. W. Woolard, Jr.*
 DATE: 4/29/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I-77 NB N.C. WELCOME CENTER RESURFACING REST AREA CLOSURE DETAIL

4/28/2016 S:\TMU\WZTC\Resurfacing\2016 West\Mecklenburg 2016CPT.10.22.10601.5\REST AREA_TC_TMP.dgn User:keddis

4/26/2016 S:\TMU\WZTC\DesignGroup3\Squad38\Projects\Mecklenburg I-77 Rest Area Resurfacing\REST_AREA_TC_TMP_2.dgn User:keddis

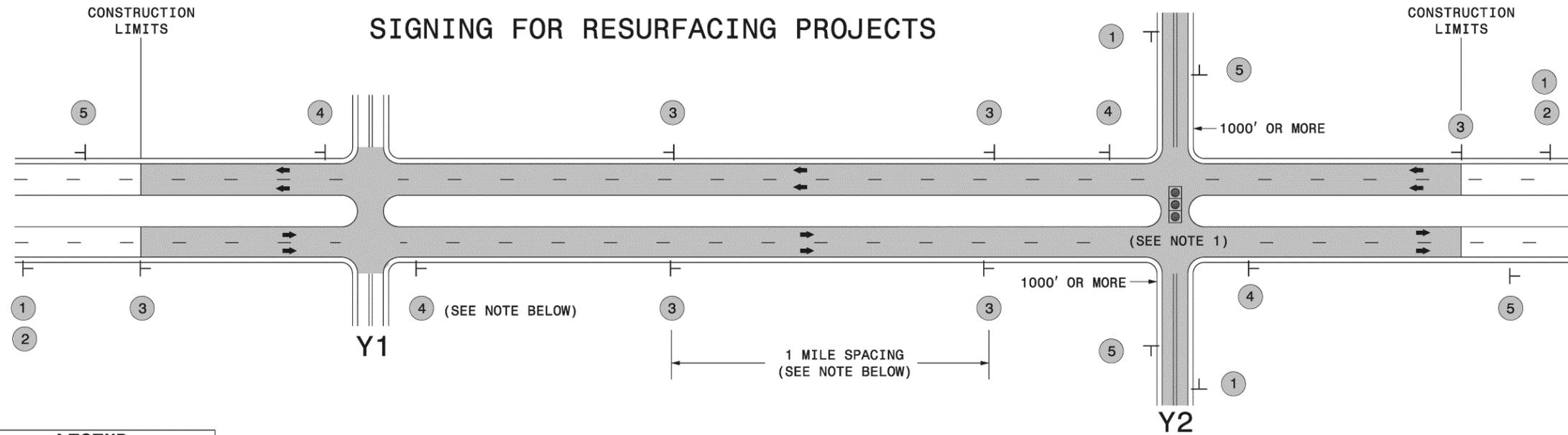


APPROVED: *J. W. Woodards Jr.*
 DATE: 4/26/2016

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



**I-77 NB N.C. WELCOME
CENTER RESURFACING
LANE CLOSURE DETAIL**

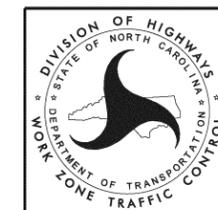


LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

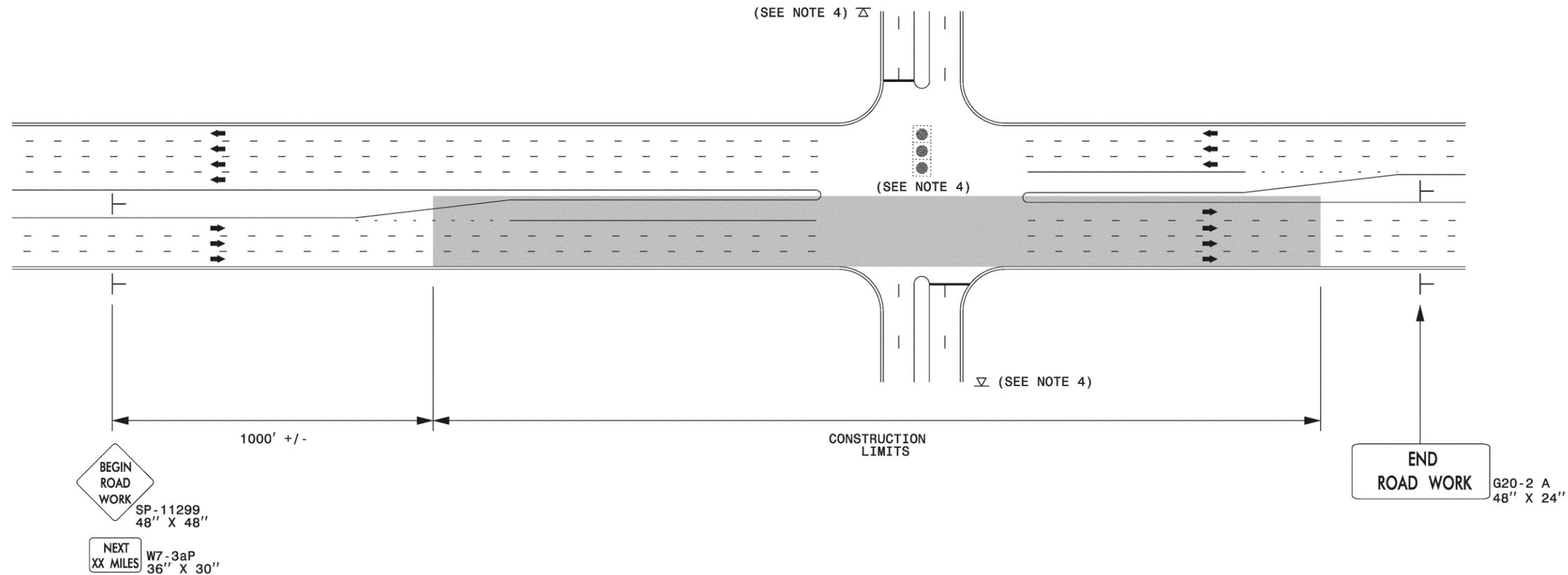
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING		
	1	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> W20-1 48" X 48" </div> <div style="text-align: center;"> W20-7 A 48" X 48" </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION. 	
	2	 W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)		
	3	 SP 13107 48" X 48"	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.		
	4	 SP 13106 48" X 48"	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.		
5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.			



**RESURFACING
ADVANCE WARNING SIGNS
FOR RURAL AND SUBURBAN
MULTI-LANE ROADWAYS
W/ SHOULDER SECTIONS**

URBAN / SUBURBAN WORKZONES



NOTES:

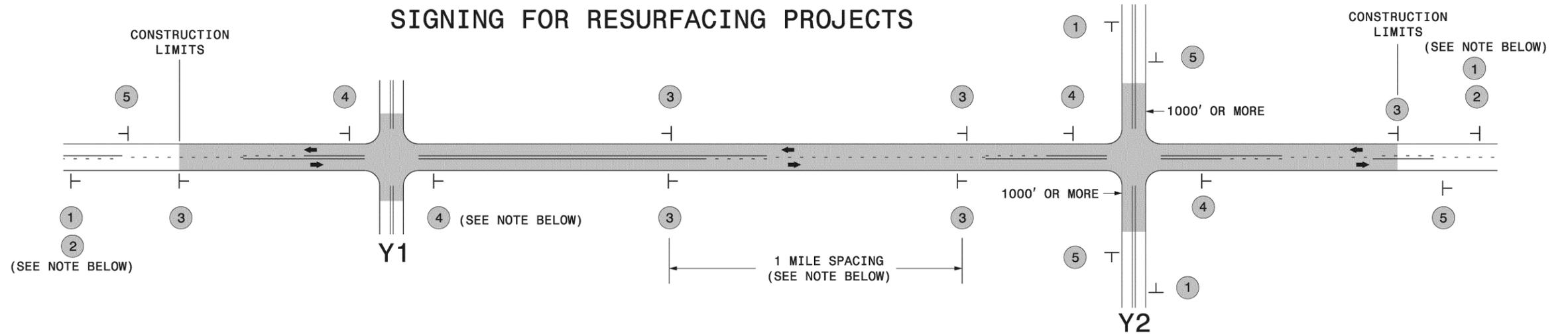
- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

LEGEND	
├	STATIONARY SIGN
➔	DIRECTION OF TRAFFIC FLOW



**RESURFACING ADVANCE
WARNING SIGNS FOR
URBAN / SUBURBAN
FACILITIES**

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	 	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <small>W20-1 48" X 48"</small> </div> <div style="display: flex; justify-content: space-around;"> <small>W20-7 A 48" X 48"</small> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
		<p>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.</p>	
		<p>THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p>	
		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	

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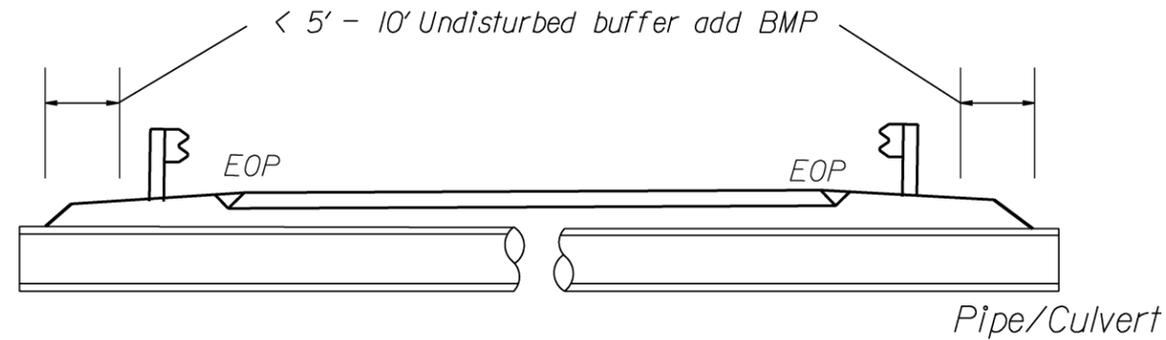
**RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS**

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.10.22.10601.1 etc	EC-1

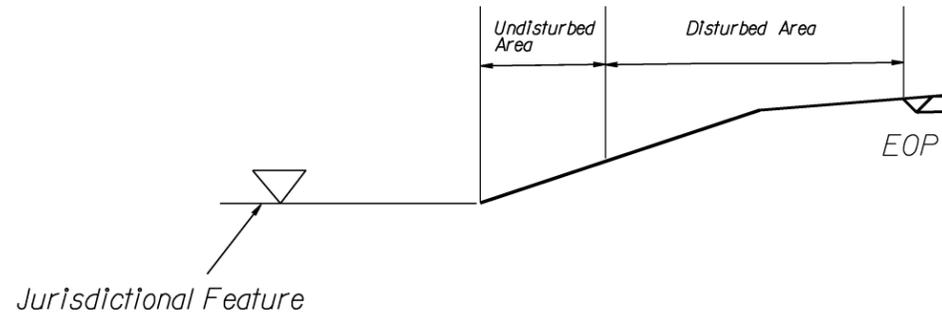
EROSION CONTROL DETAIL

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

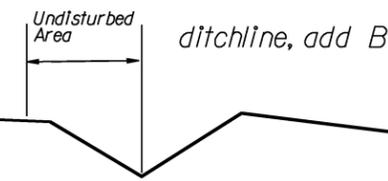
BMP Options: Wattle or Silt Fence



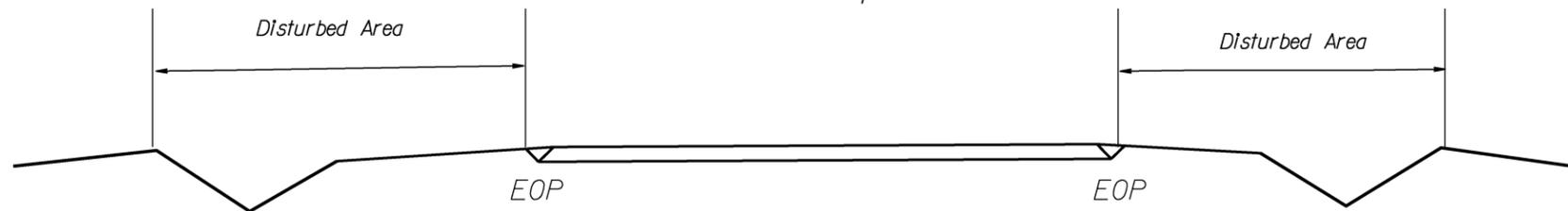
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP



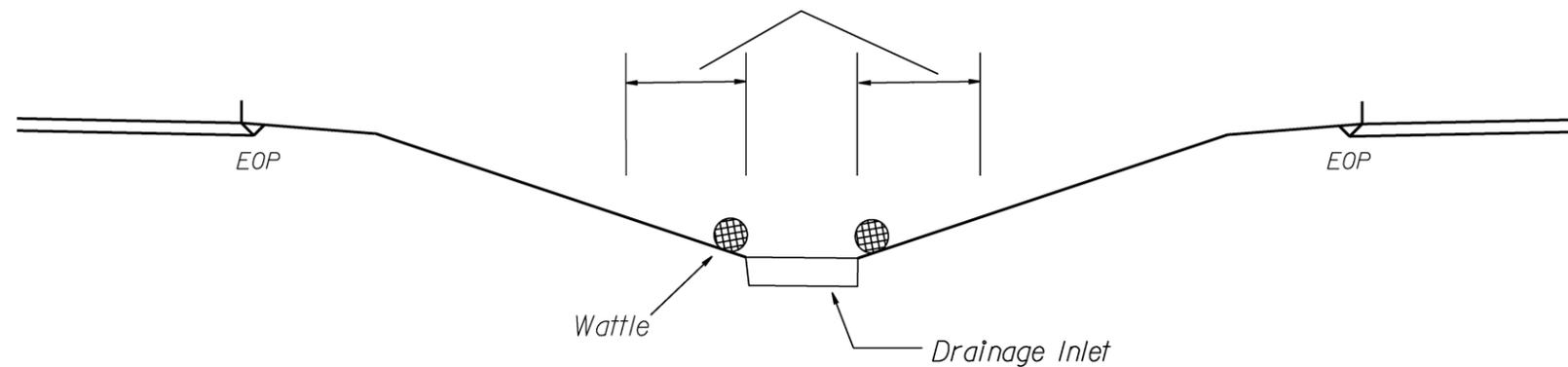
< 5' - 10' Undisturbed buffer from ditchline, add BMP



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed

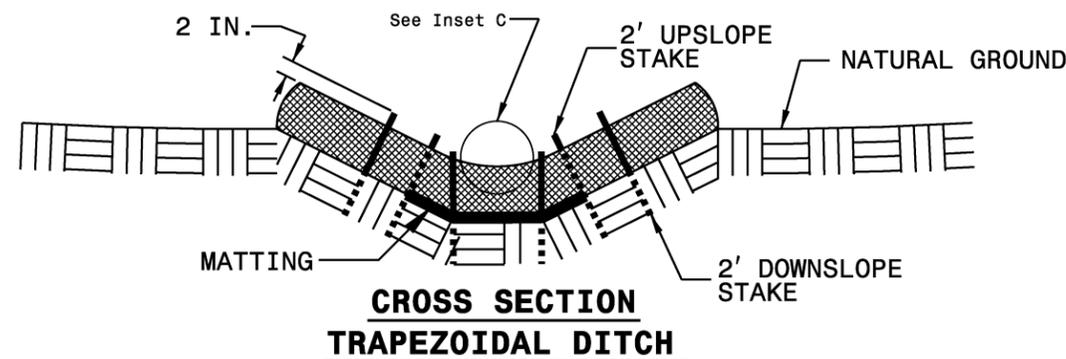
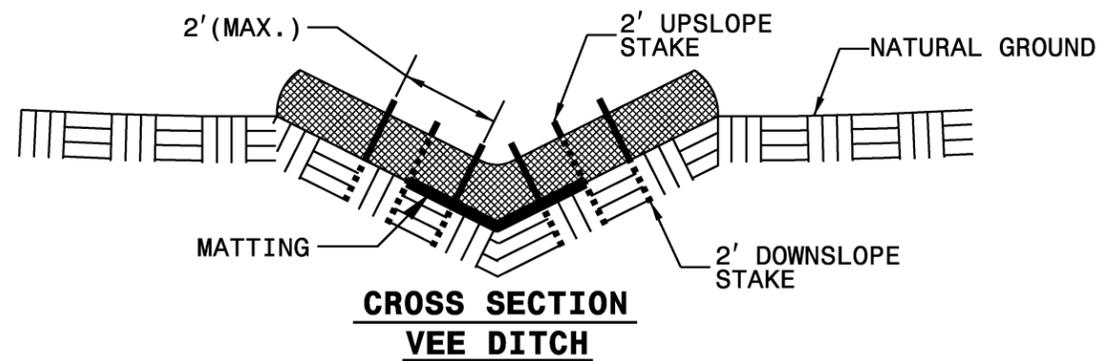
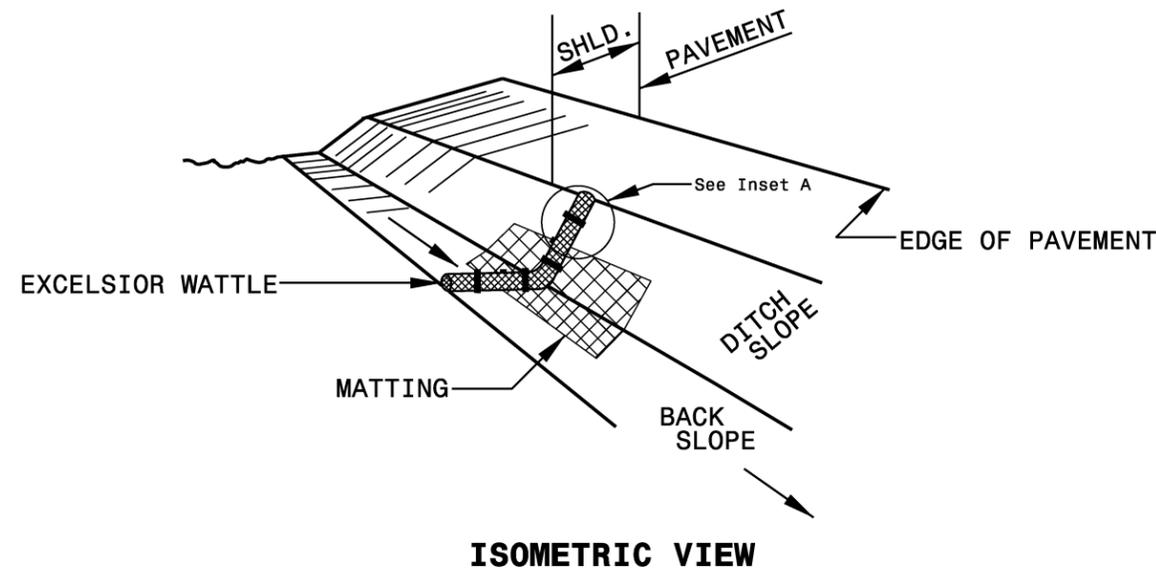


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

