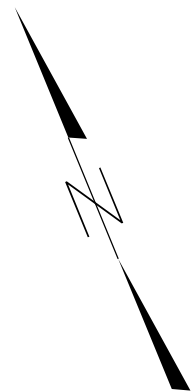
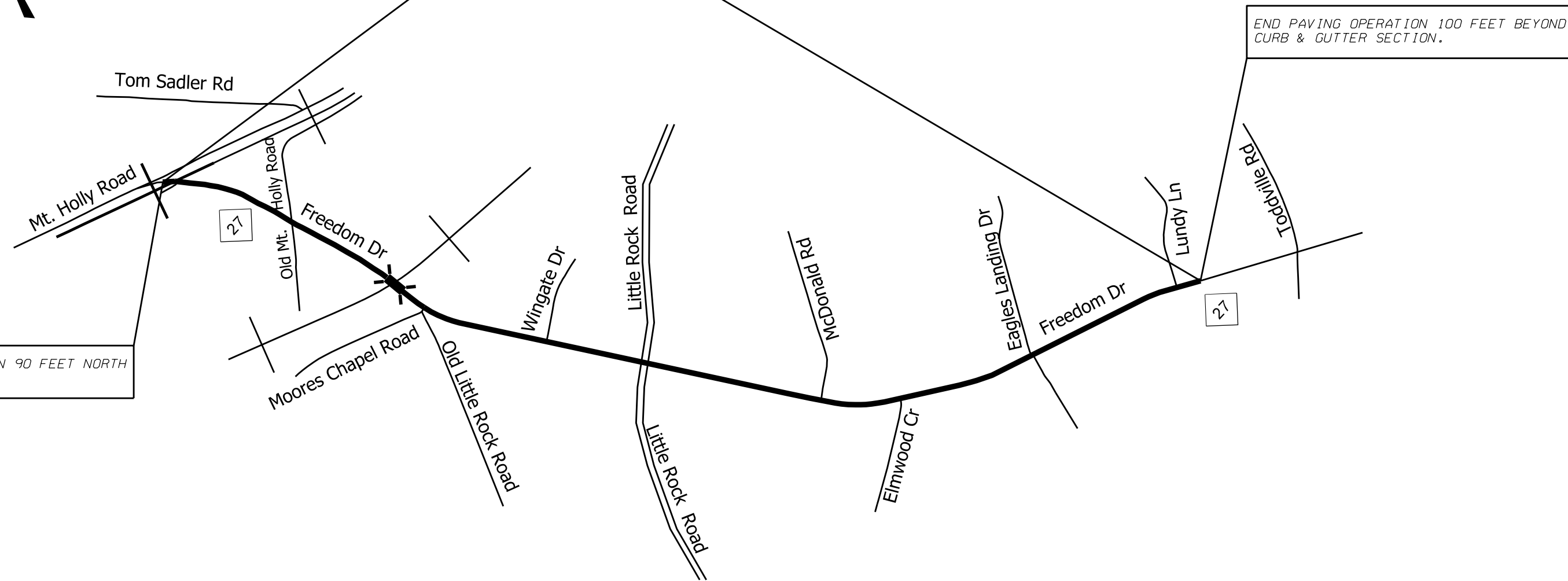


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.J0.I6.I060I 2022CPT.J0.I6.2060I		



1



BEGIN PAVING OPERATION 90 FEET NORTH OF RAILROAD TRACKS

END PAVING OPERATION 100 FEET BEYOND CURB & GUTTER SECTION.

MAP

DESCRIPTION

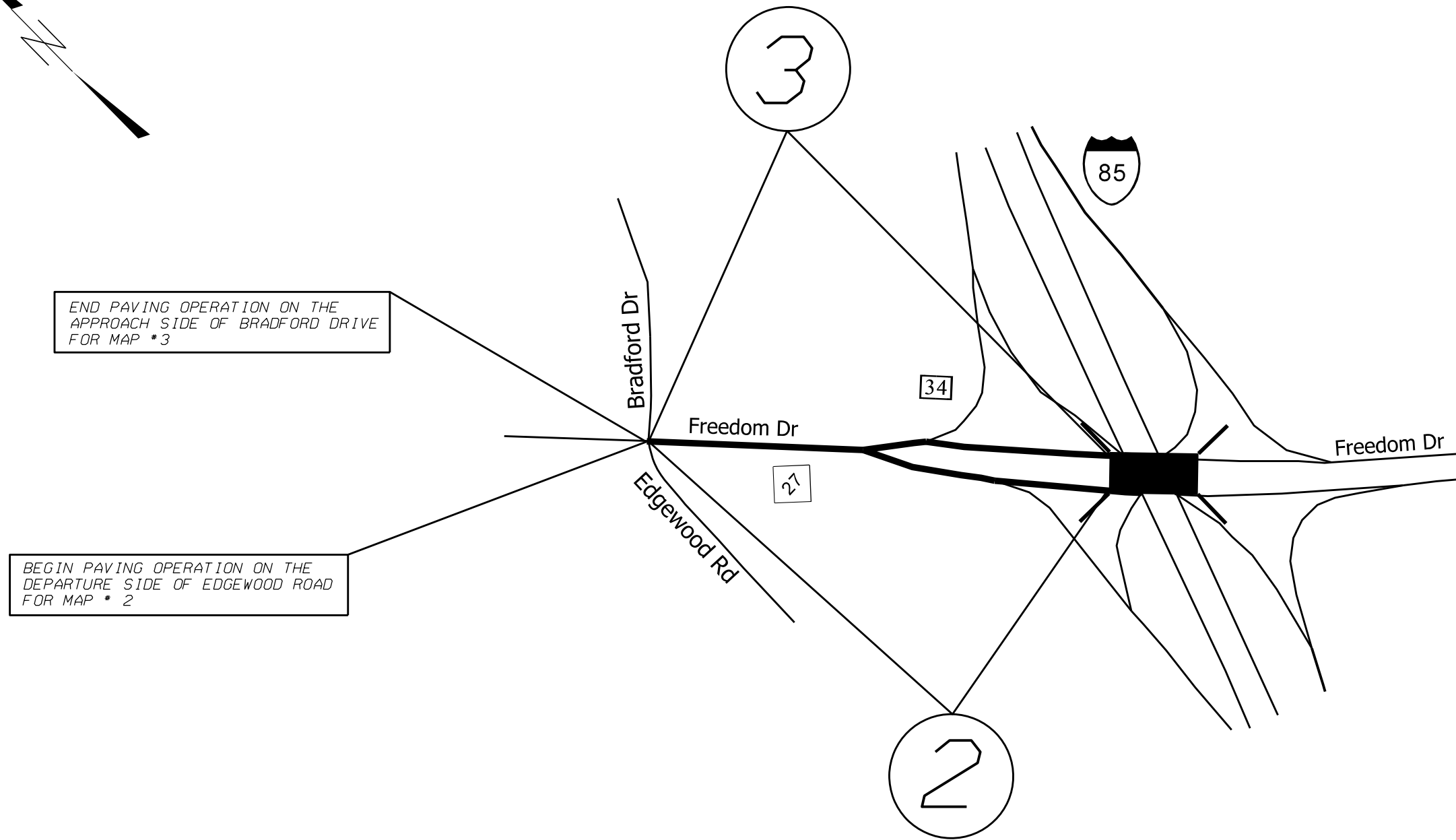
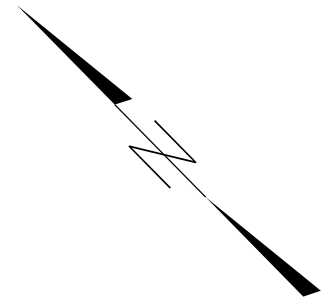
# 1 NC 27 FREEDOM DRIVE

FROM MT. HOLLY ROAD TO PAVEMENT JOINT JUST PAST LUNDY LANE

2022 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-		REVISIONS
DATE	11/29		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.I0.J6.I0601 2022CPT.I0.J6.20601		



MAP

- # 2 NC 27 FREEDOM DRIVE
- # 3 NC 27 FREEDOM DRIVE

DESCRIPTION

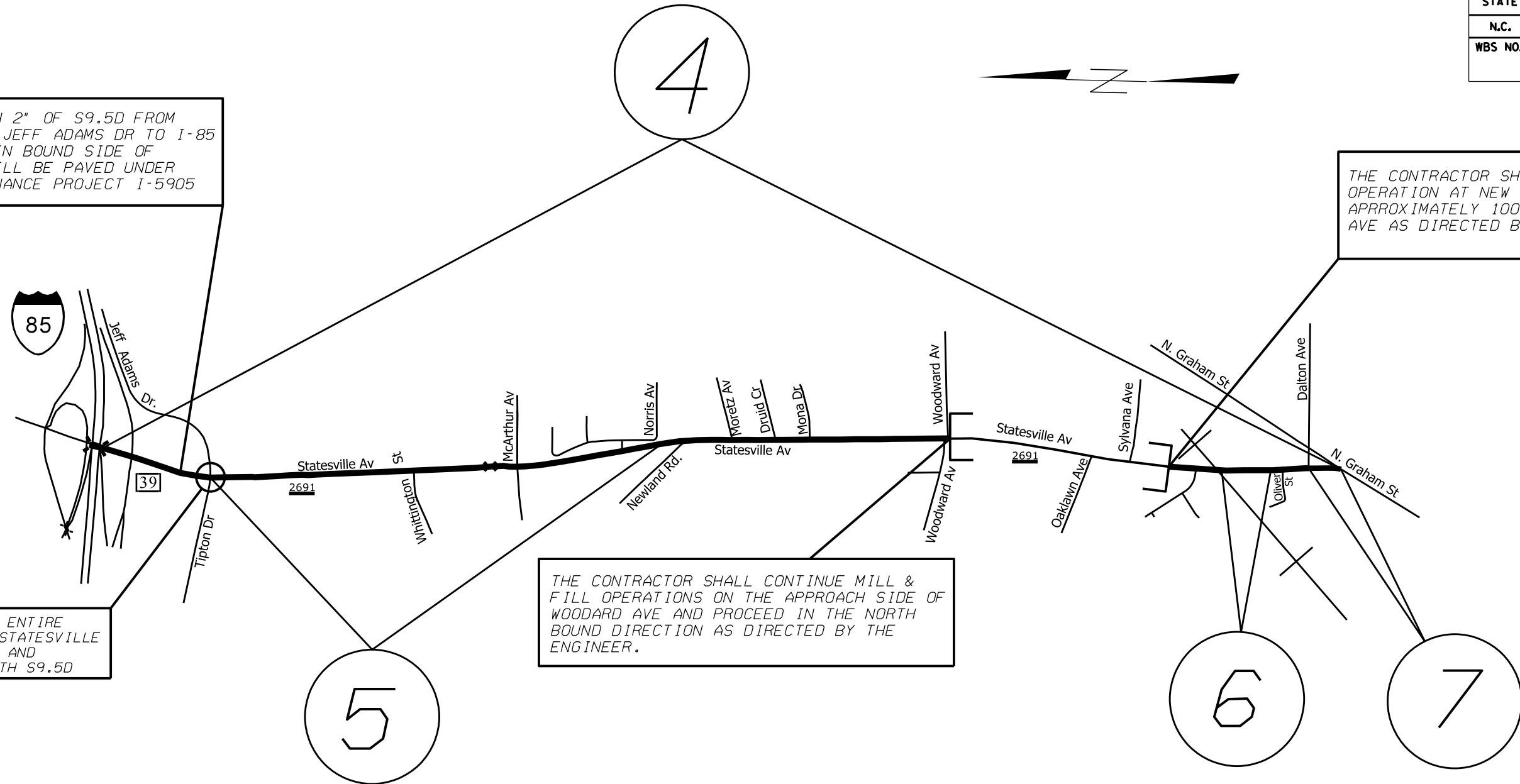
- FROM EDGEWOOD ROAD TO I-85 BRIDGE DECK
- FROM I-85 BRIDGE DECK TO BRADFORD DRIVE

2022 MECKLENBURG COUNTY RESURFACING		
SCALE	-NA-	
DATE	8/21	
DWG. BY	JHE	
DESIGN BY	JHE	
APPROVED		
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.10.16.10601 2022CPT.10.16.20601		

MILL AND FILL WITH 2" OF S9.5D FROM DEPARTURE SIDE OF JEFF ADAMS DR TO I-85 BRIDGE DECK, THE IN BOUND SIDE OF STATESVILLE AVE WILL BE PAVED UNDER INTERSTATE MAINTENANCE PROJECT I-5905

THE CONTRACTOR SHALL STOP MILL & FILL OPERATION AT NEW PAVEMENT JOINT APPROXIMATELY 100 FEET SOUTH OF SYLVANA AVE AS DIRECTED BY THE ENGINEER.



MILL 2" AND FILL ENTIRE INTERSECTION OF STATESVILLE AVE AT TIPTON DR AND JEFF ADAMS DR WITH S9.5D


THE CONTRACTOR SHALL CONTINUE MILL & FILL OPERATIONS ON THE APPROACH SIDE OF WOODARD AVE AND PROCEED IN THE NORTH BOUND DIRECTION AS DIRECTED BY THE ENGINEER.

MAP

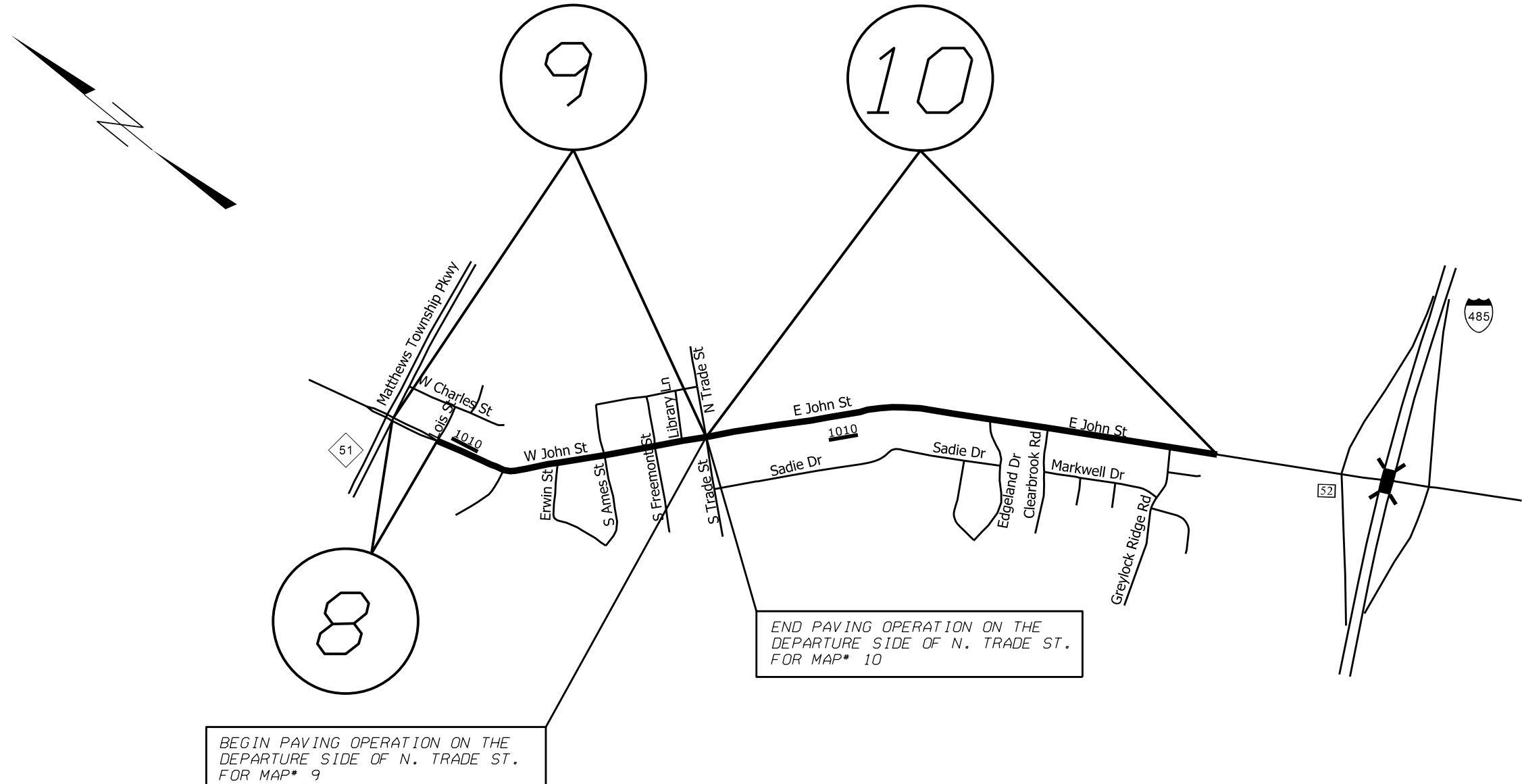
DESCRIPTION

- # 4 SR 2691 STATESVILLE AVE FROM GRAHAM ST TO I-85 BRIDGE DECK
- # 5 SR 2691 STATESVILLE AVE FROM TIPTON DRIVE TO END DIVIDE AT NORRIS AVE.
- # 6 SR 2691 STATESVILLE AVE FROM BEGIN DIVIDE AT RXR CROSSING TO JUST PRIOR TO OLIVER ST.
- # 7 SR 2691 STATESVILLE AVE FROM BEGIN DIVIDE AT DALTON AVE TO END DIVIDE AT GRAHAM ST.

**2022 MECKLENBURG COUNTY RESURFACING**

SCALE	-1A-		REVISIONS	
DATE	8/21			
DWG. BY	JHE			
DESIGN BY	JHE			
APPROVED				

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.J0.J6.J0601 2022CPT.J0.J6.20601		




MAP

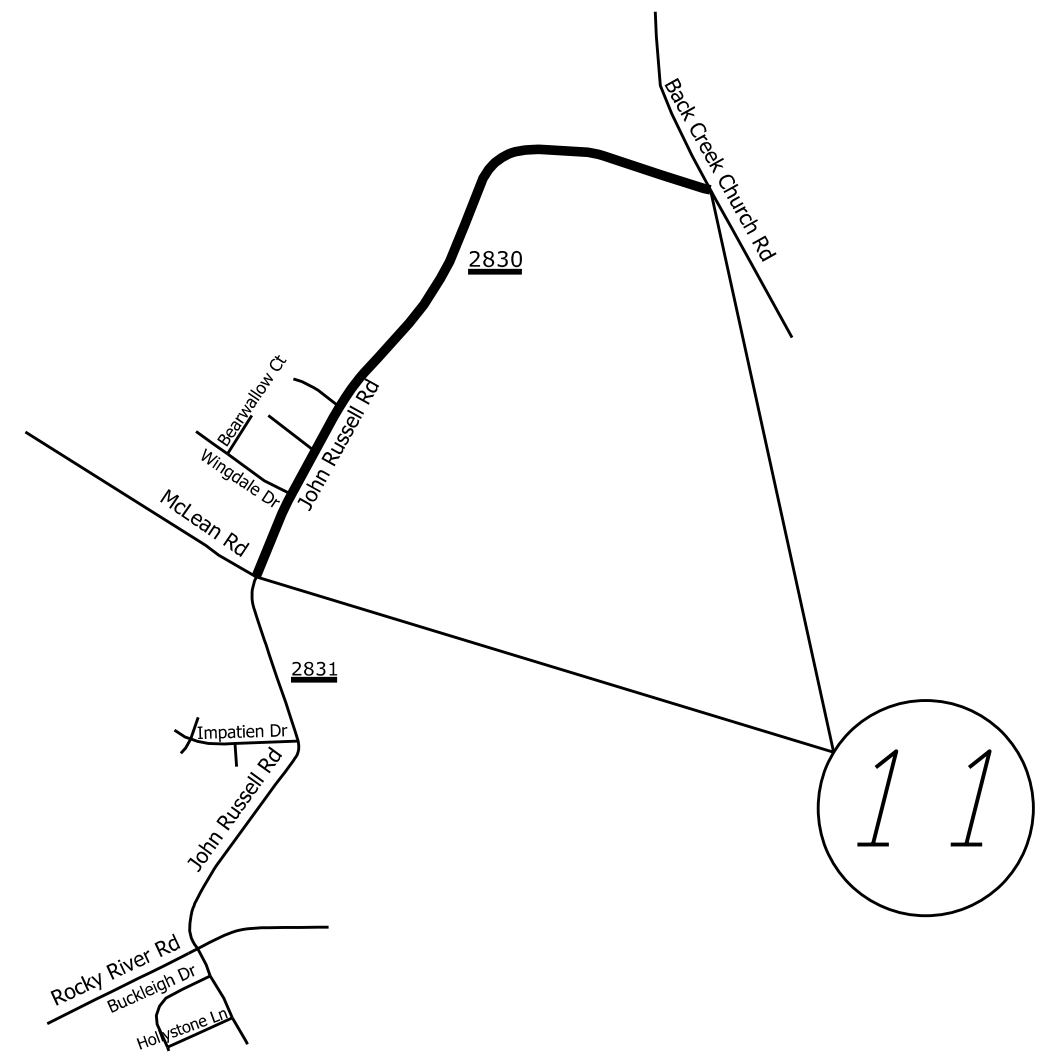
DESCRIPTION

- # 8 SR 1010 W JOHN STREET
- # 9 SR 1010 W JOHN STREET
- # 10 SR 1010 E JOHN STREET

- FROM MATTHEWS TOWNSHIP PKWY TO END DIVIDE
- FROM N. TRADE STREET TO MATTHEWS TOWNSHIP PARKWAY
- FROM APPROXIMATELY 0.10 MILES EAST OF GREYLOCK RIDGE RD TO N. TRADE STREET

2022 MECKLENBURG COUNTY RESURFACING		
SCALE	-NA-	
DATE	8/21	
DWG. BY	JHE	
DESIGN BY	JHE	
APPROVED		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.10.16.10601 2022CPT.10.16.20601		



MAP

# 11 SR 2830 JOHN RUSSELL ROAD

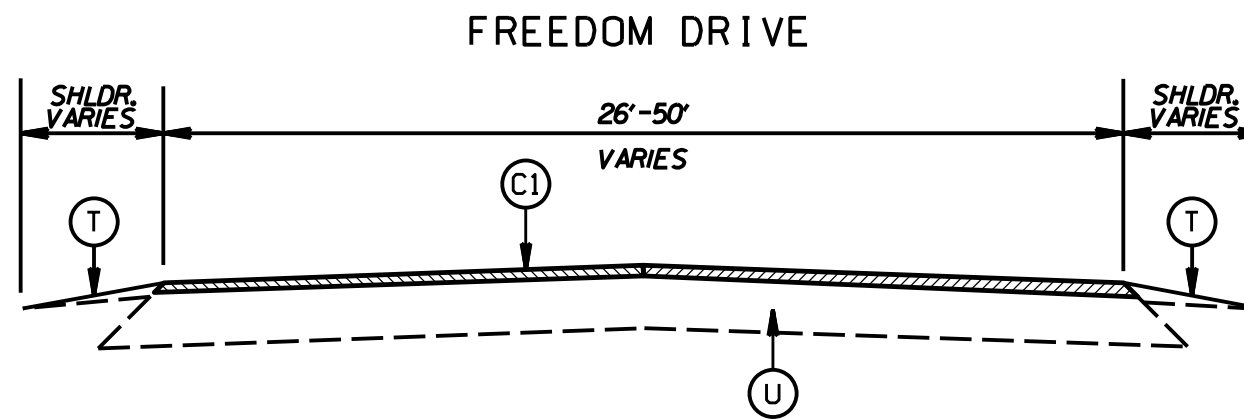
DESCRIPTION

FROM McLEAN ROAD TO BACK CREEK CHURCH ROAD

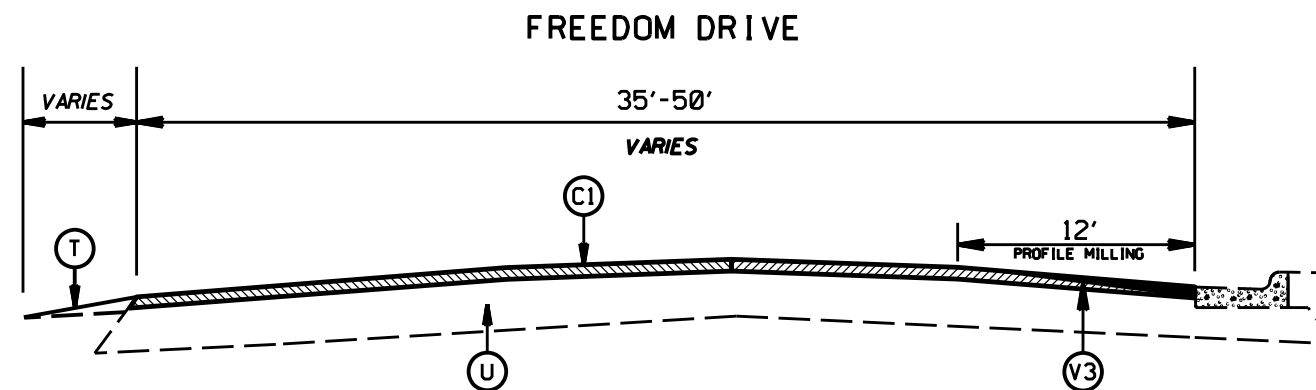
2022 MECKLENBURG COUNTY RESURFACING										
SCALE	-NA-									
DATE	8/21									
DWG. BY	JHE									
DESIGN BY	JHE									
APPROVED										
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REVISIONS										

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.I0.J6.I0601 2022CPT.I0.J6.20601		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5" DEPTH
V4	INCIDENTAL MILLING

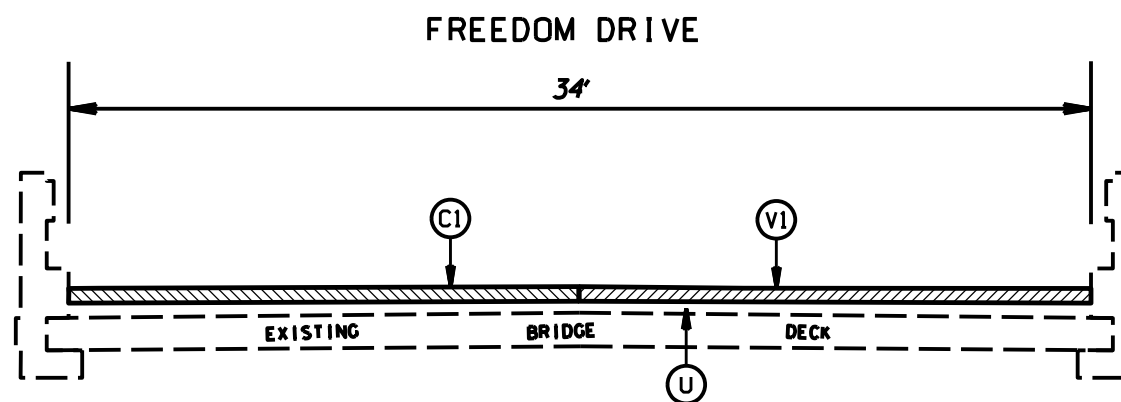
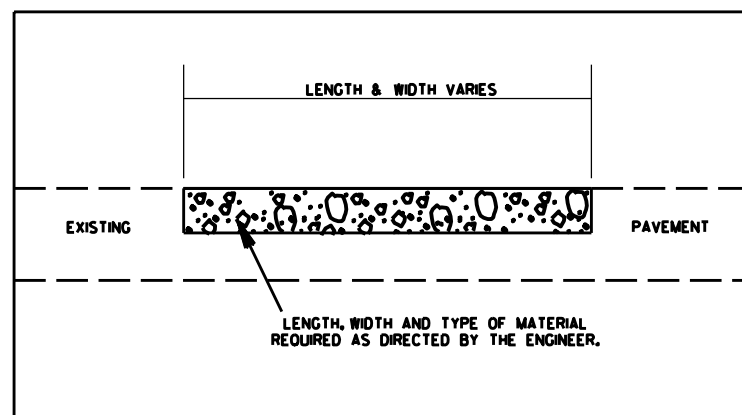


TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2

PATCHING DETAIL



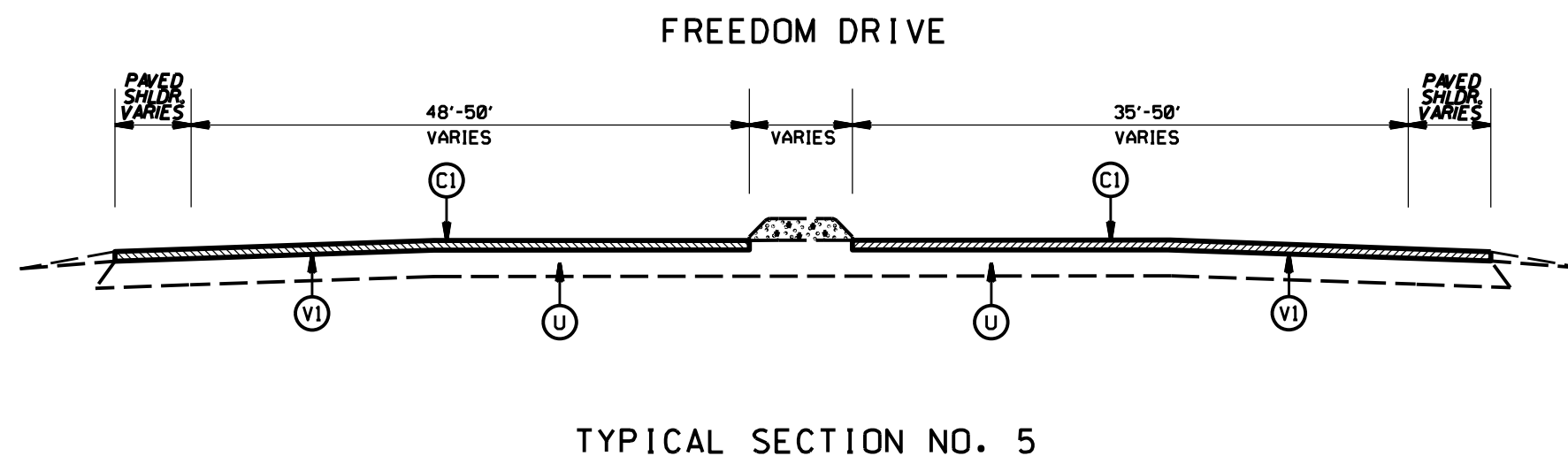
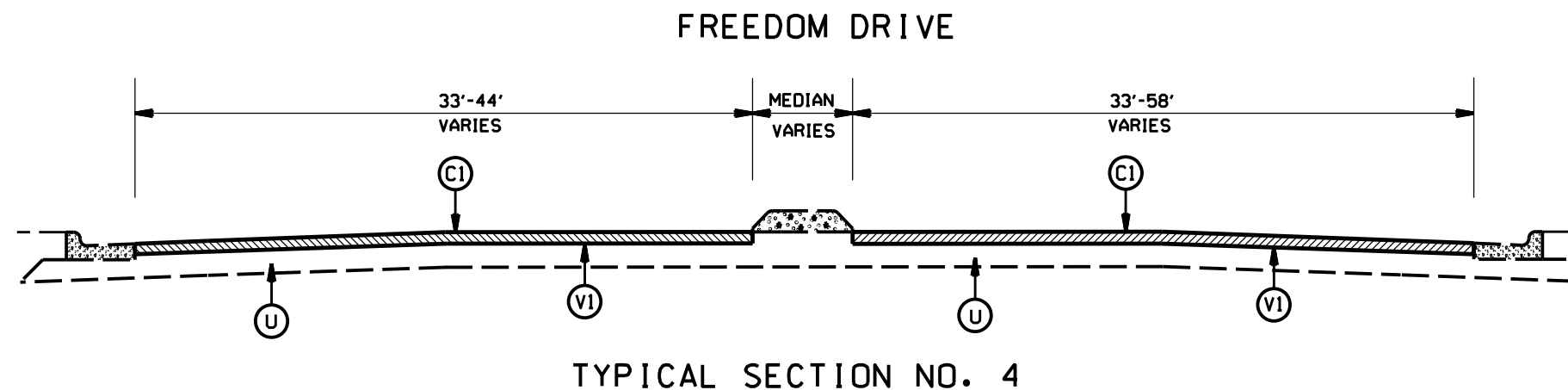
TYPICAL SECTION NO. 3  
MAP #1 BRIDGE OVER RAILROAD

2022 MECKLENBURG COUNTY  
RESURFACING

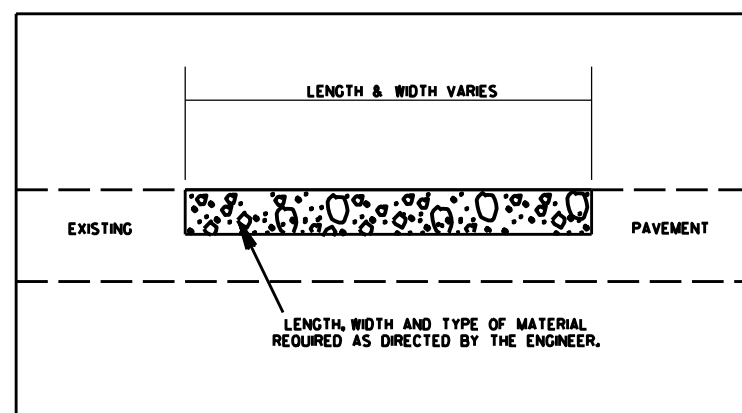
SCALE	-NA-		REVISIONS	
DATE	2/22			
DWG. BY	JHE			
DESIGN BY	JHE			
APPROVED				

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.I0.I6.I060I		
	2022CPT.I0.I6.2060I		

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5" DEPTH
V4	INCIDENTAL MILLING



**PATCHING DETAIL**

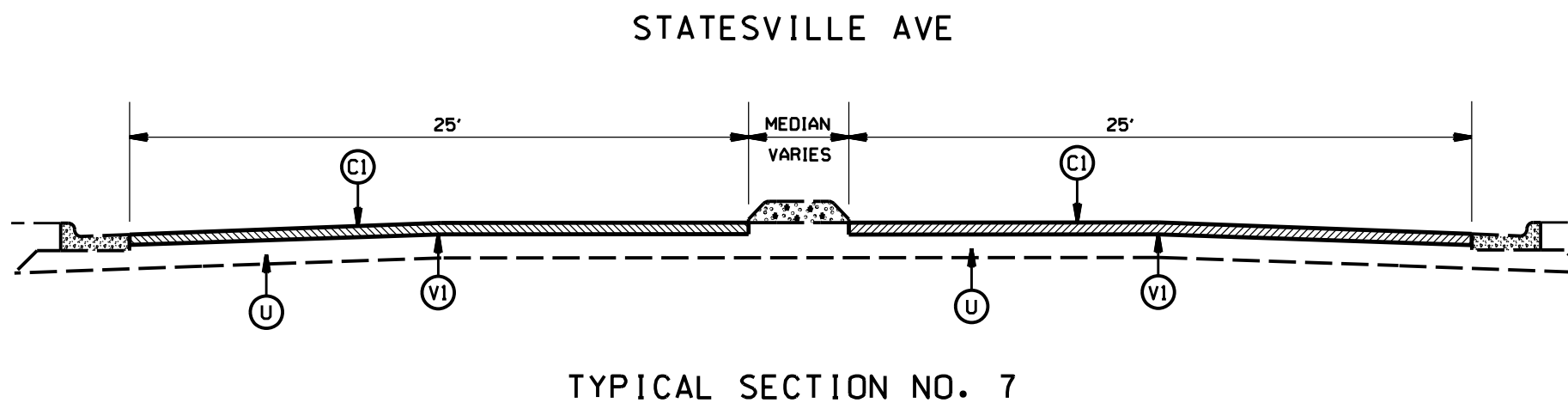
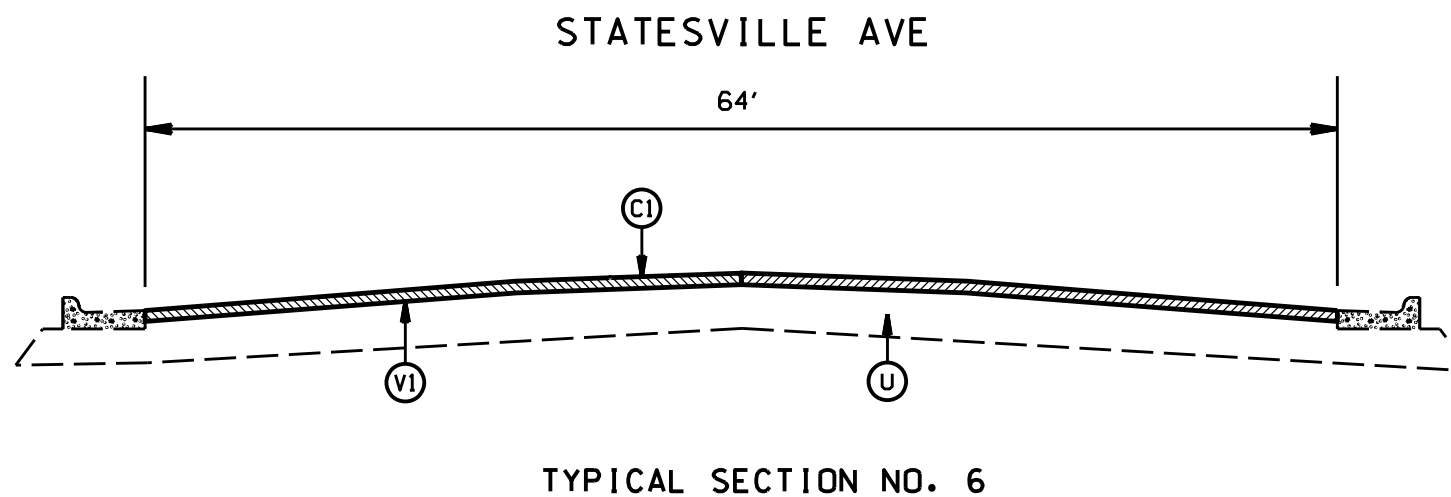


2022 MECKLENBURG COUNTY  
RESURFACING

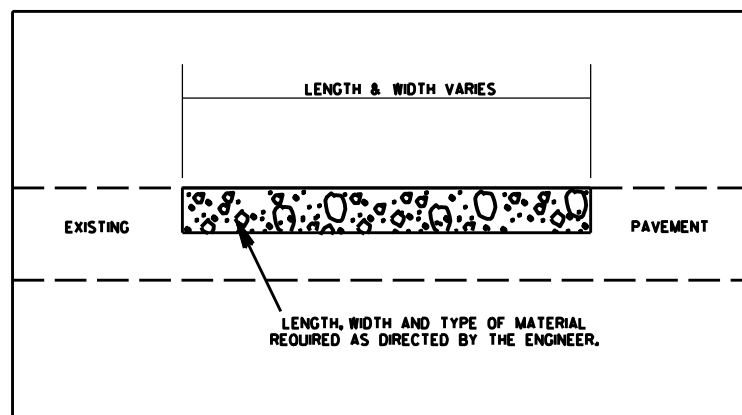
SCALE	-NA-		REVISIONS
DATE	2/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.10.16.10601		
	2022CPT.10.16.20601		

PAVEMENT SCHEDULE	
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T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5" DEPTH
V4	INCIDENTAL MILLING



PATCHING DETAIL



2022 MECKLENBURG COUNTY  
RESURFACING

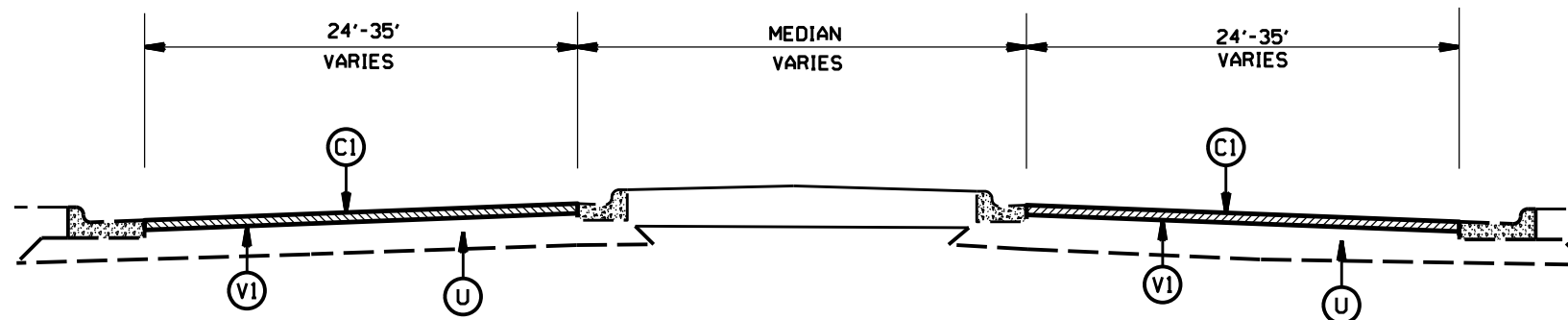
SCALE	-NA-		REVISIONS
DATE	2/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.I0.J6.I0601 2022CPT.I0.J6.20601		

### PAVEMENT SCHEDULE

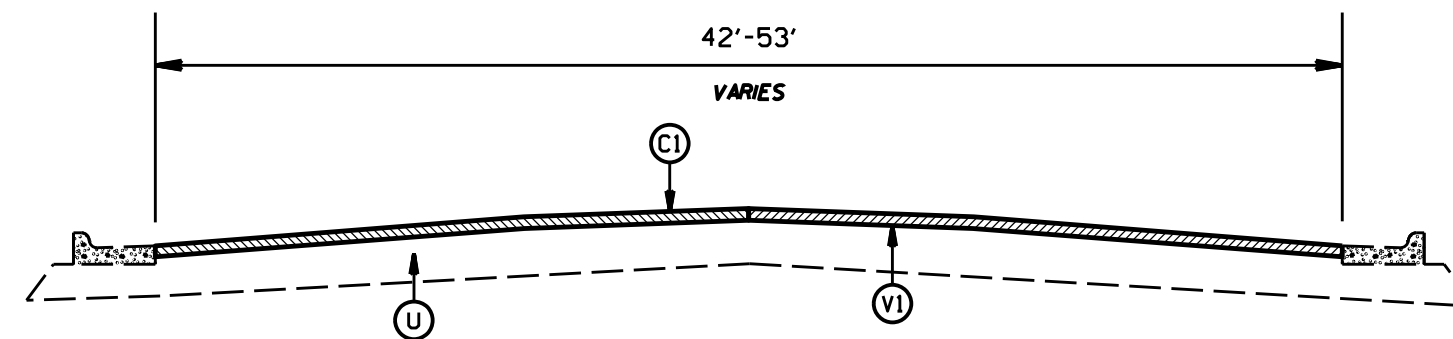
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T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5" DEPTH
V4	INCIDENTAL MILLING

### STATESVILLE AVE



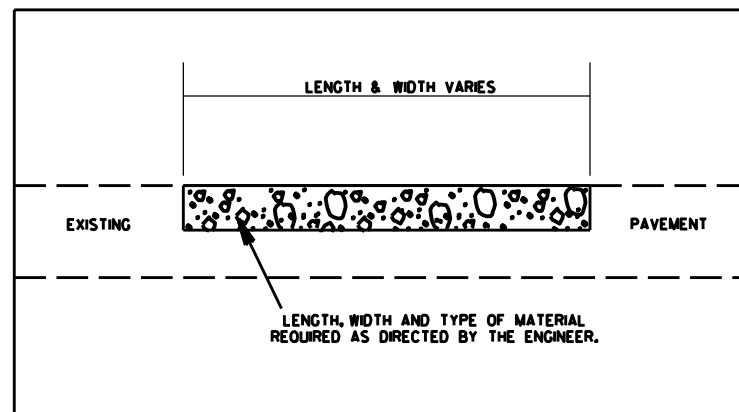
TYPICAL SECTION NO. 8

### STATESVILLE AVE

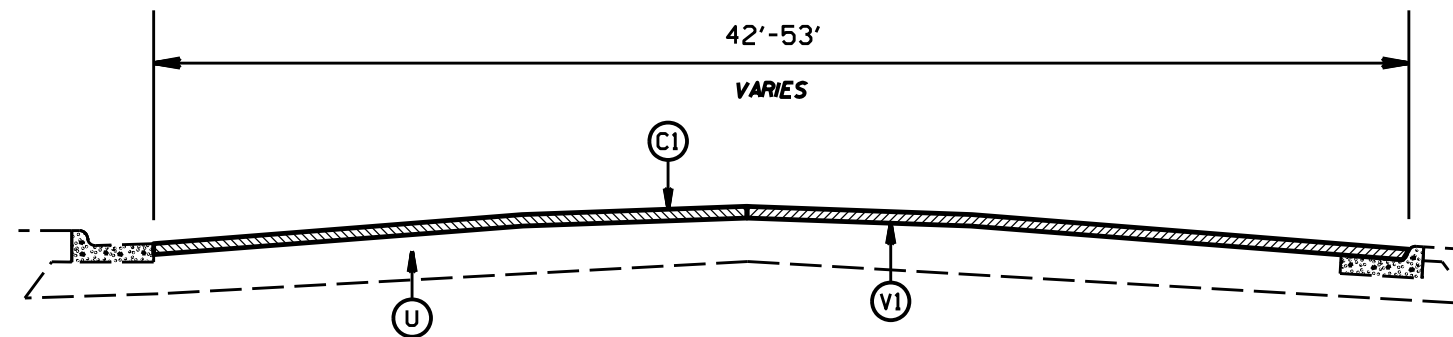


TYPICAL SECTION NO. 9

### PATCHING DETAIL



### STATESVILLE AVE



TYPICAL SECTION NO. 10

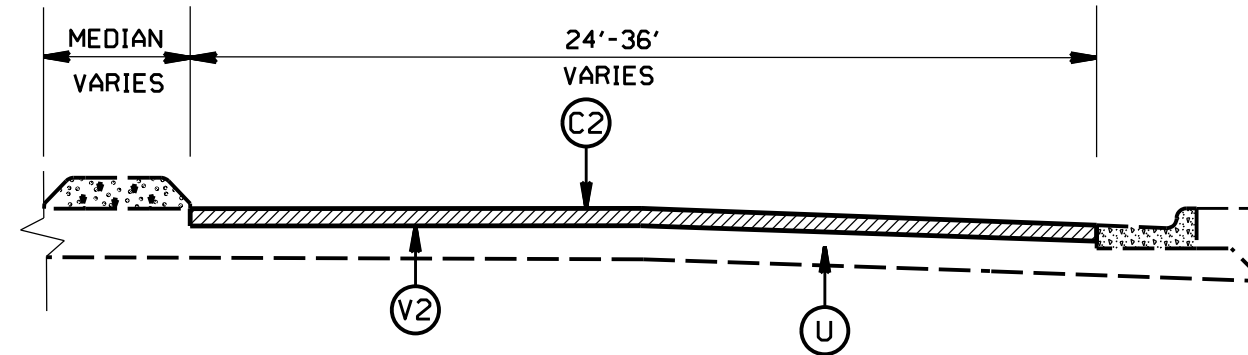
2022 MECKLENBURG COUNTY  
RESURFACING

SCALE	-NA-		REVISIONS
DATE	2/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.10.16.10601 2022CPT.10.16.20601		

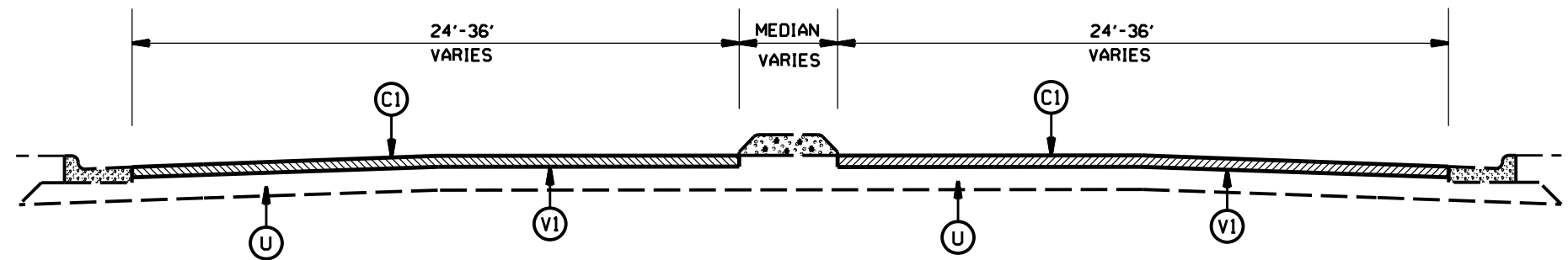
PAVEMENT SCHEDULE	
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U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5" DEPTH
V4	INCIDENTAL MILLING

### STATESVILLE AVE



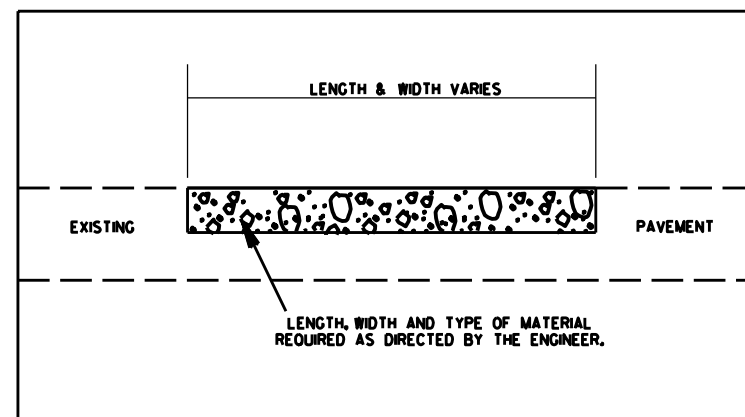
TYPICAL SECTION NO. 11  
BETWEEN I-85 & JEFF ADAMS DRIVE

### W. JOHN STREET



TYPICAL SECTION NO. 12

### PATCHING DETAIL

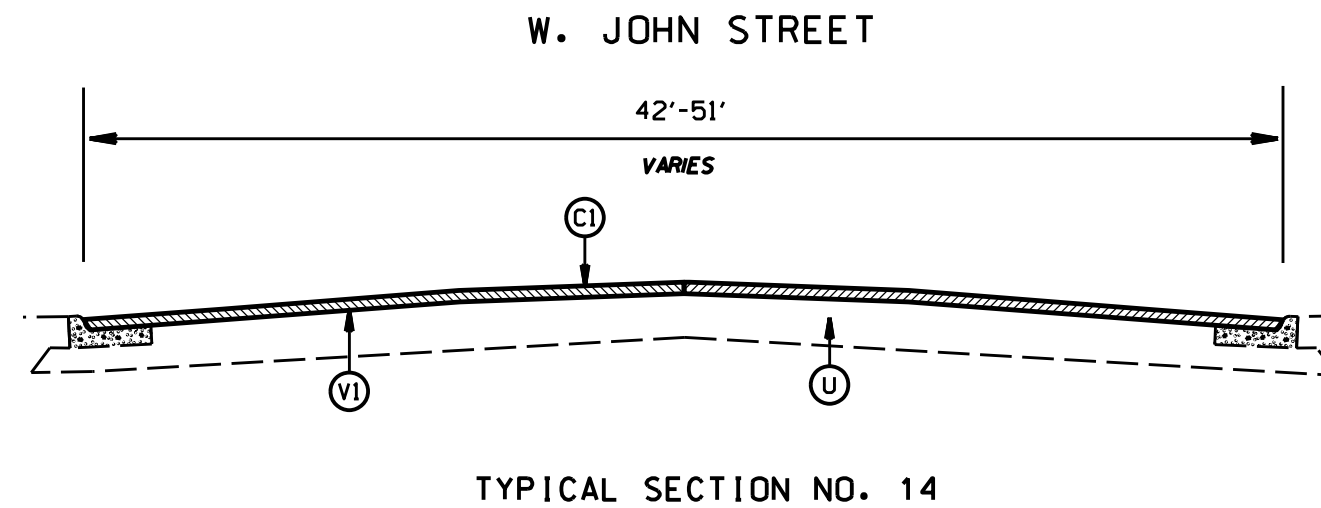
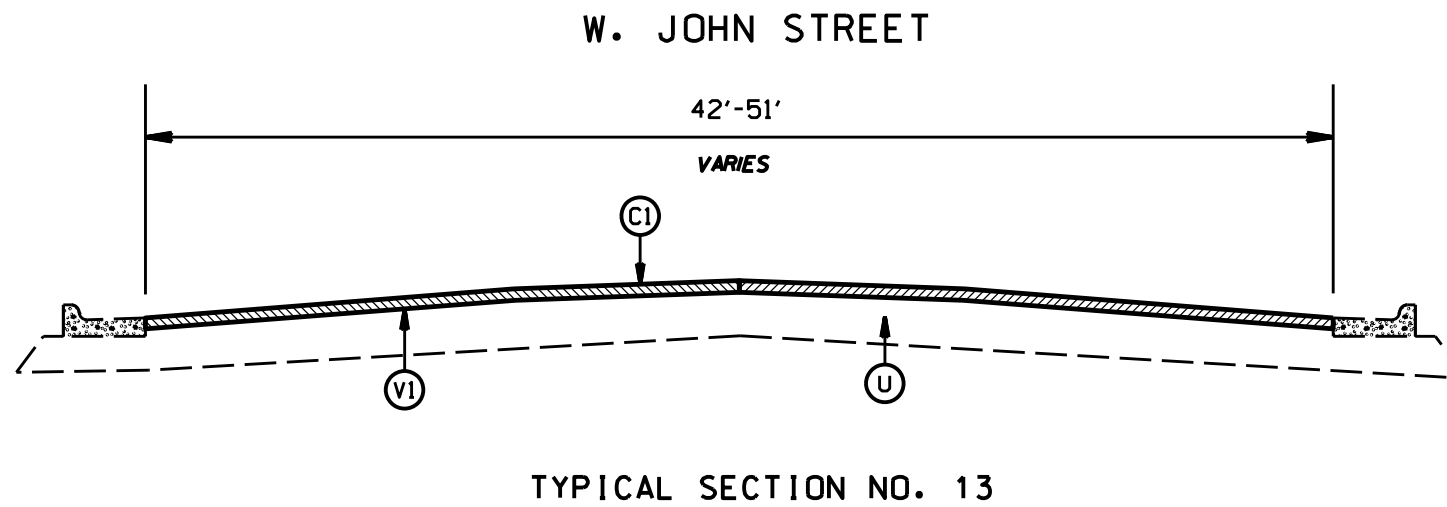


2022 MECKLENBURG COUNTY  
RESURFACING

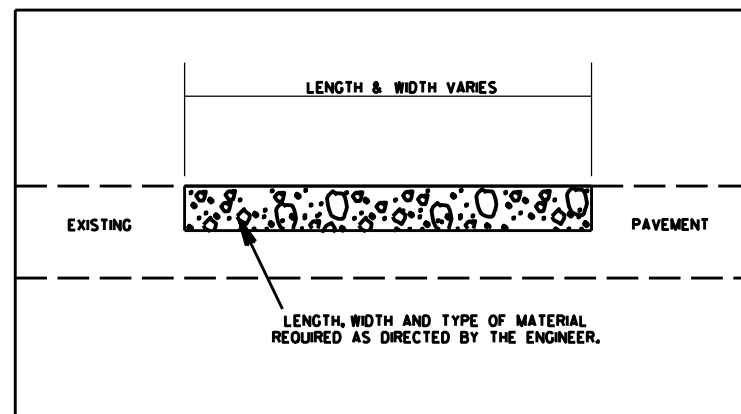
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DATE	2/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO. 2022CPT.10.16.10601		2022CPT.10.16.20601	

PAVEMENT SCHEDULE	
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V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5" DEPTH
V4	INCIDENTAL MILLING



**PATCHING DETAIL**



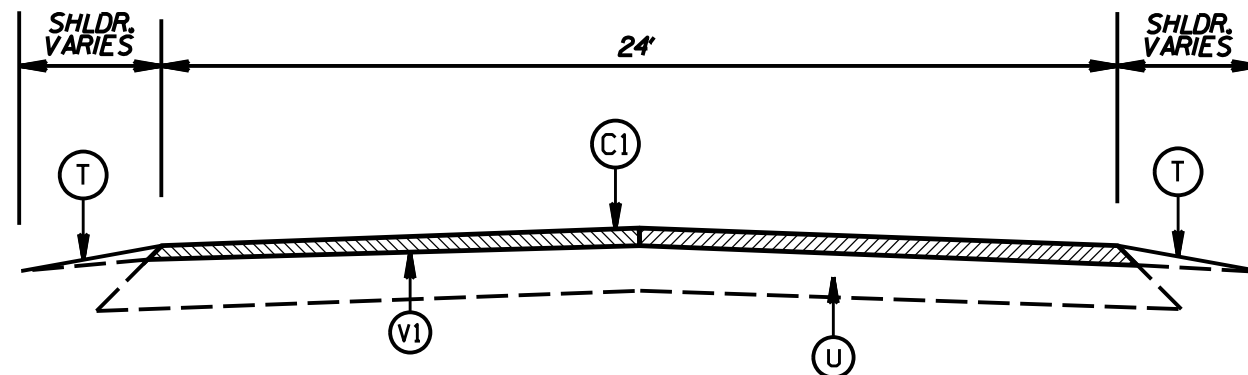
**2022 MECKLENBURG COUNTY  
RESURFACING**

SCALE	-NA-		REVISIONS	
DATE	2/22			
DWG. BY	JHE			
DESIGN BY	JHE			
APPROVED				

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.10.16.10601 2022CPT.10.16.20601		

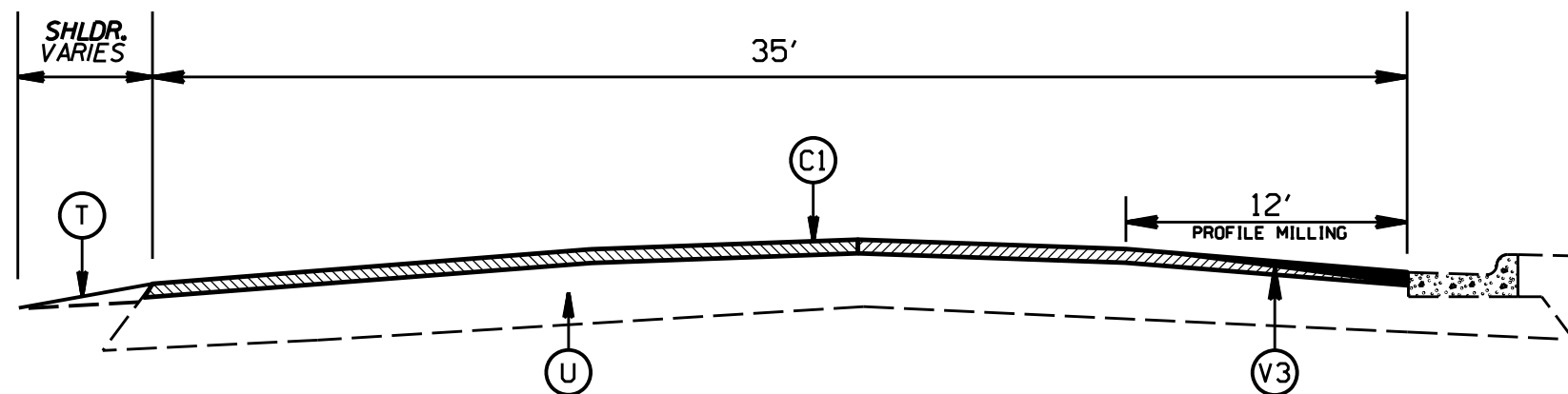
PAVEMENT SCHEDULE	
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T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5" DEPTH
V4	INCIDENTAL MILLING

### E. JOHN STREET



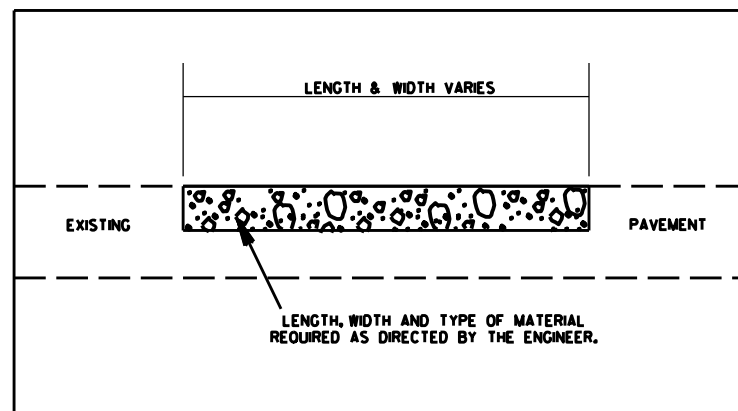
TYPICAL SECTION NO. 15

### E. JOHN STREET



TYPICAL SECTION NO. 16

### PATCHING DETAIL



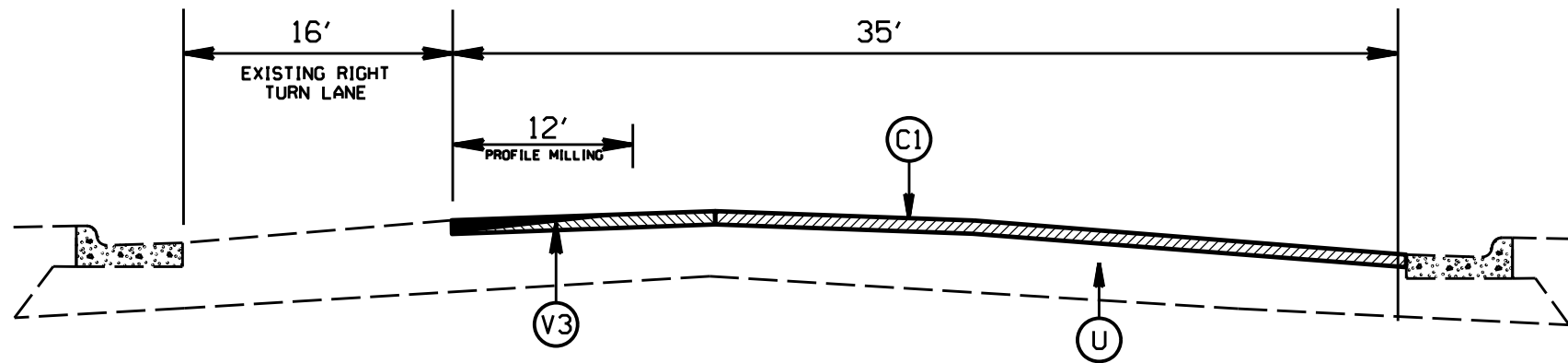
### 2022 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-		REVISIONS
DATE	2/22		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

PAVEMENT SCHEDULE	
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U	EXISTING PAVEMENT
V1	MILLING 1.5" DEPTH
V2	MILLING 2.0" DEPTH
V3	PROFILE MILLING 0" TO 1.5" DEPTH
V4	INCIDENTAL MILLING

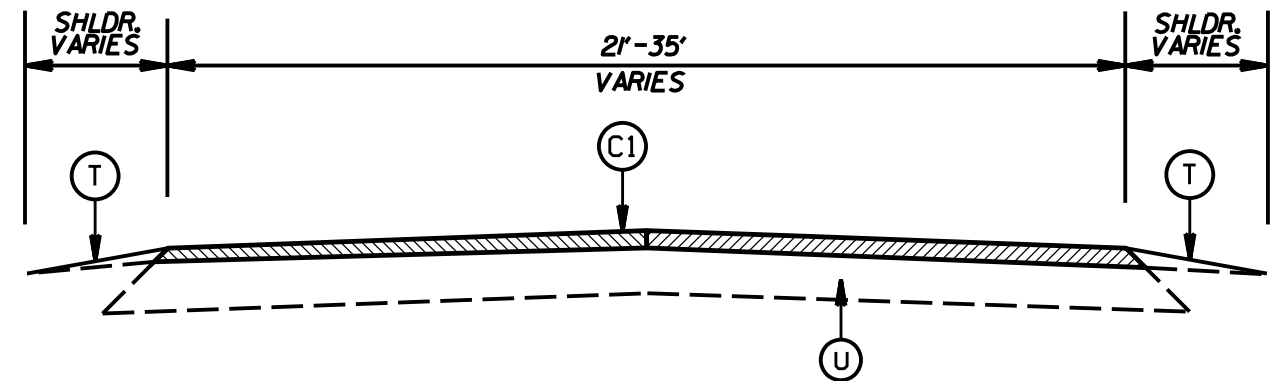
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.			
WBS NO.	2022CPT.I0.I6.I060I 2022CPT.I0.I6.2060I		

### E. JOHN STREET



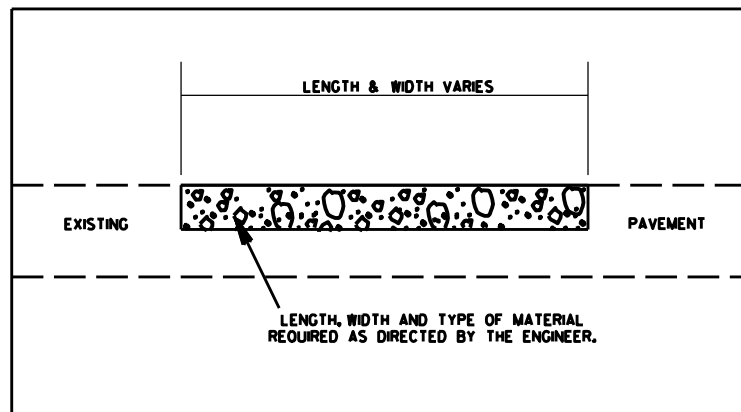
TYPICAL SECTION NO. 17  
AT PARK SQUARE PLACE

### JOHN RUSSELL ROAD

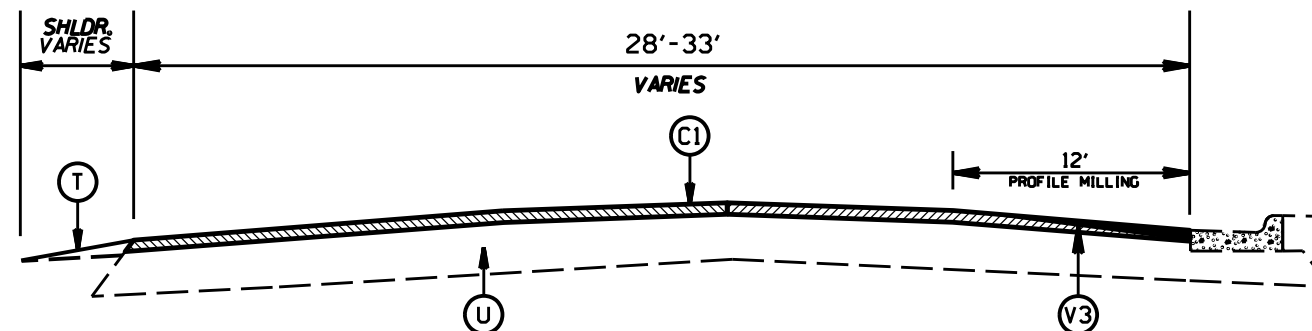


TYPICAL SECTION NO. 18

### PATCHING DETAIL



### JOHN RUSSELL ROAD

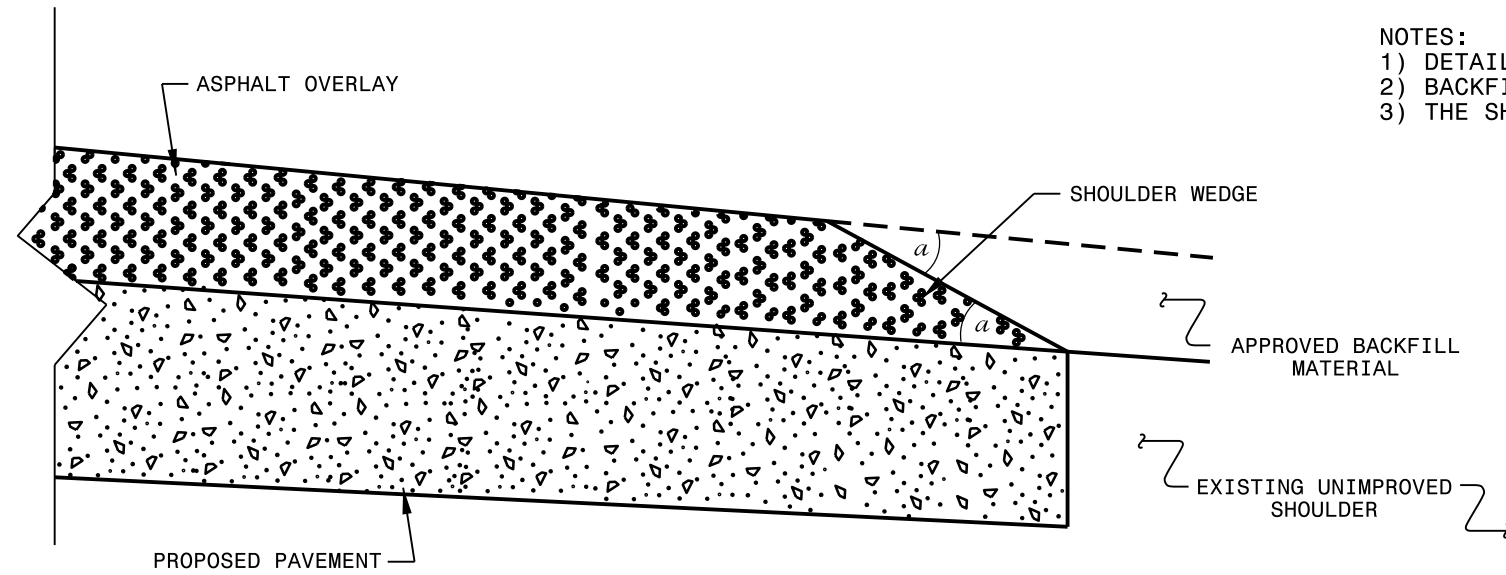


TYPICAL SECTION NO. 19

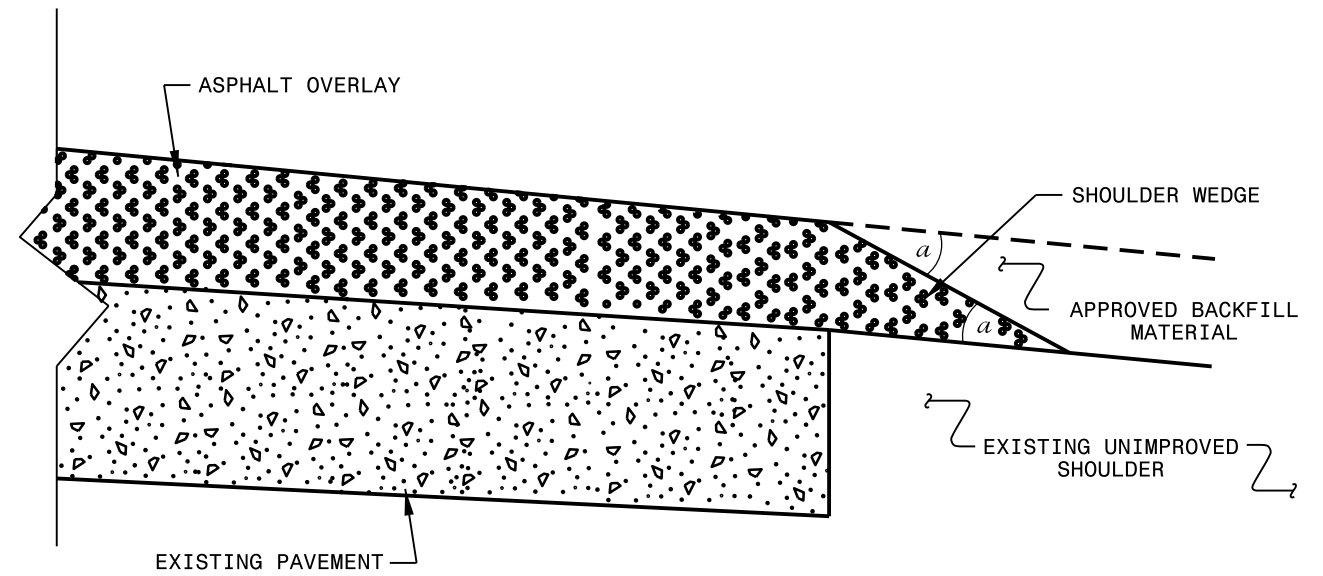
### 2022 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-		REVISIONS	
DATE	2/22			
DWG. BY	JHE			
DESIGN BY	JHE			
APPROVED				

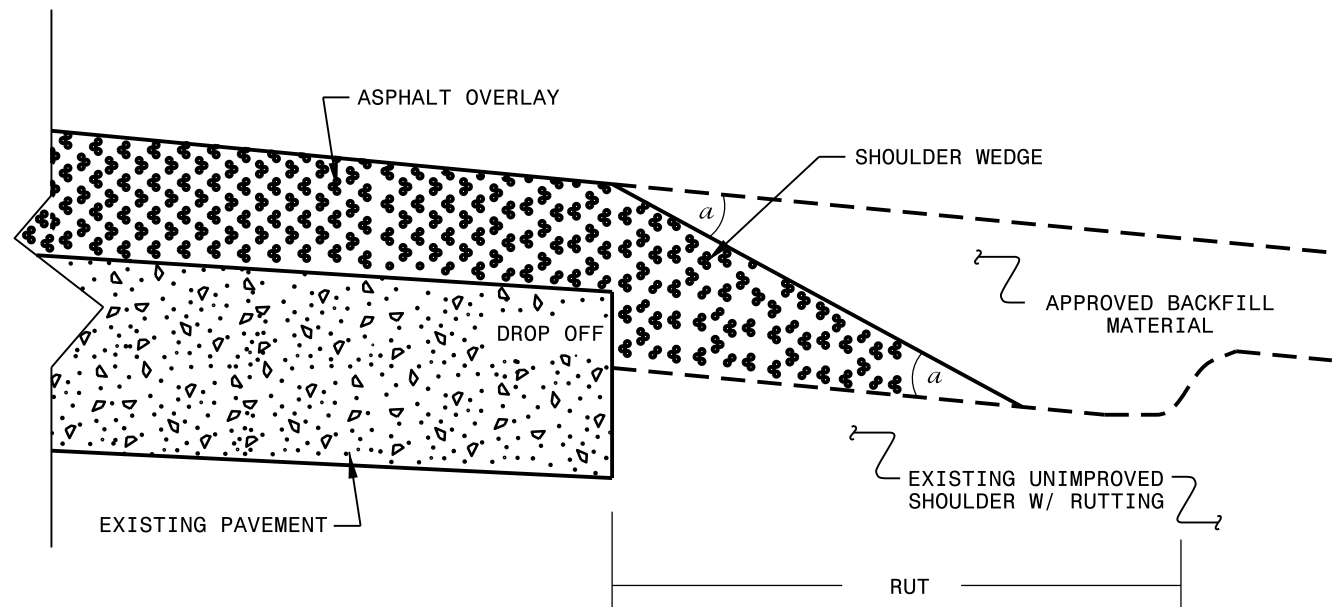
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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)

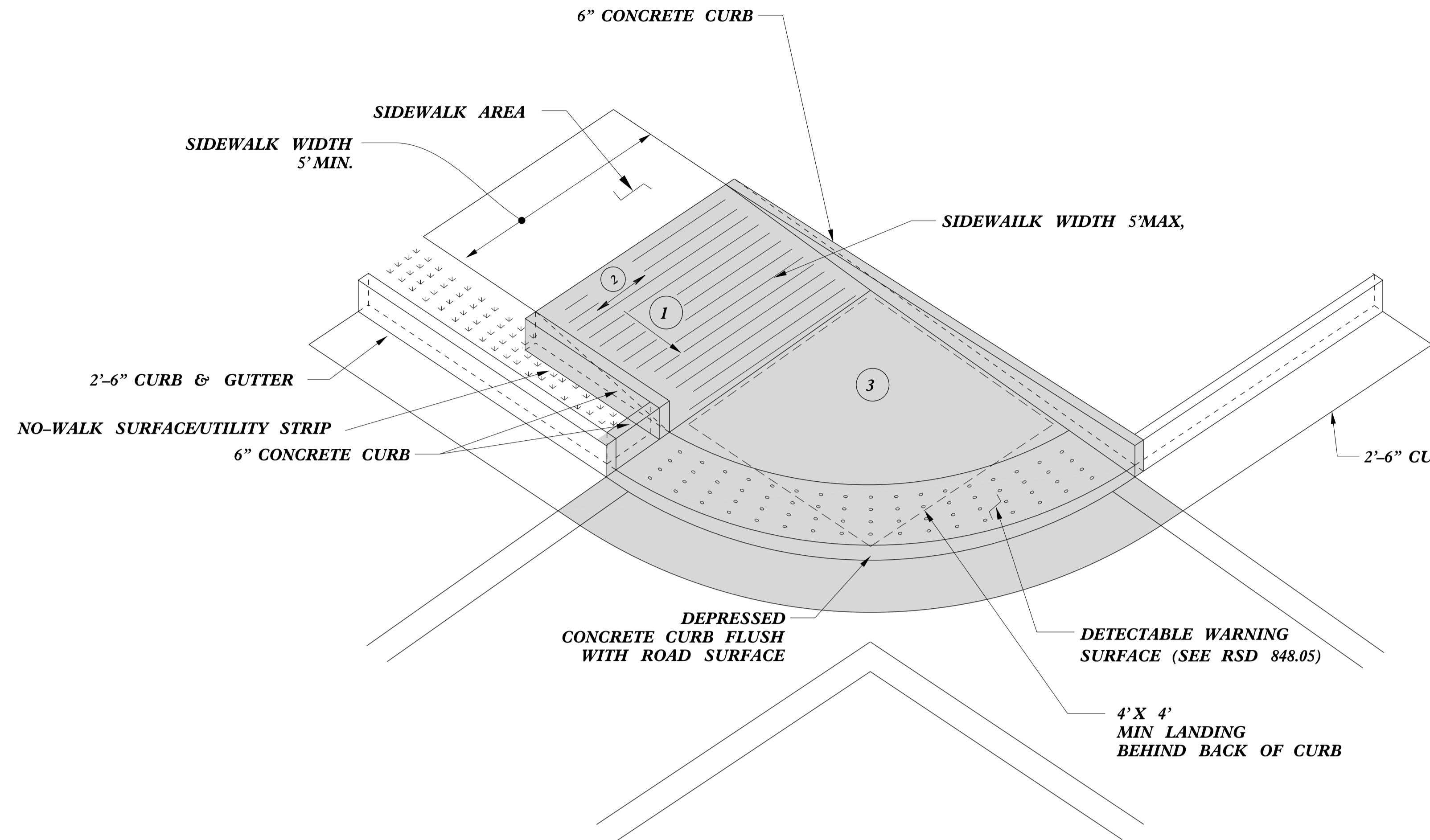
- SHOULDER WEDGE ANGLE = 30°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

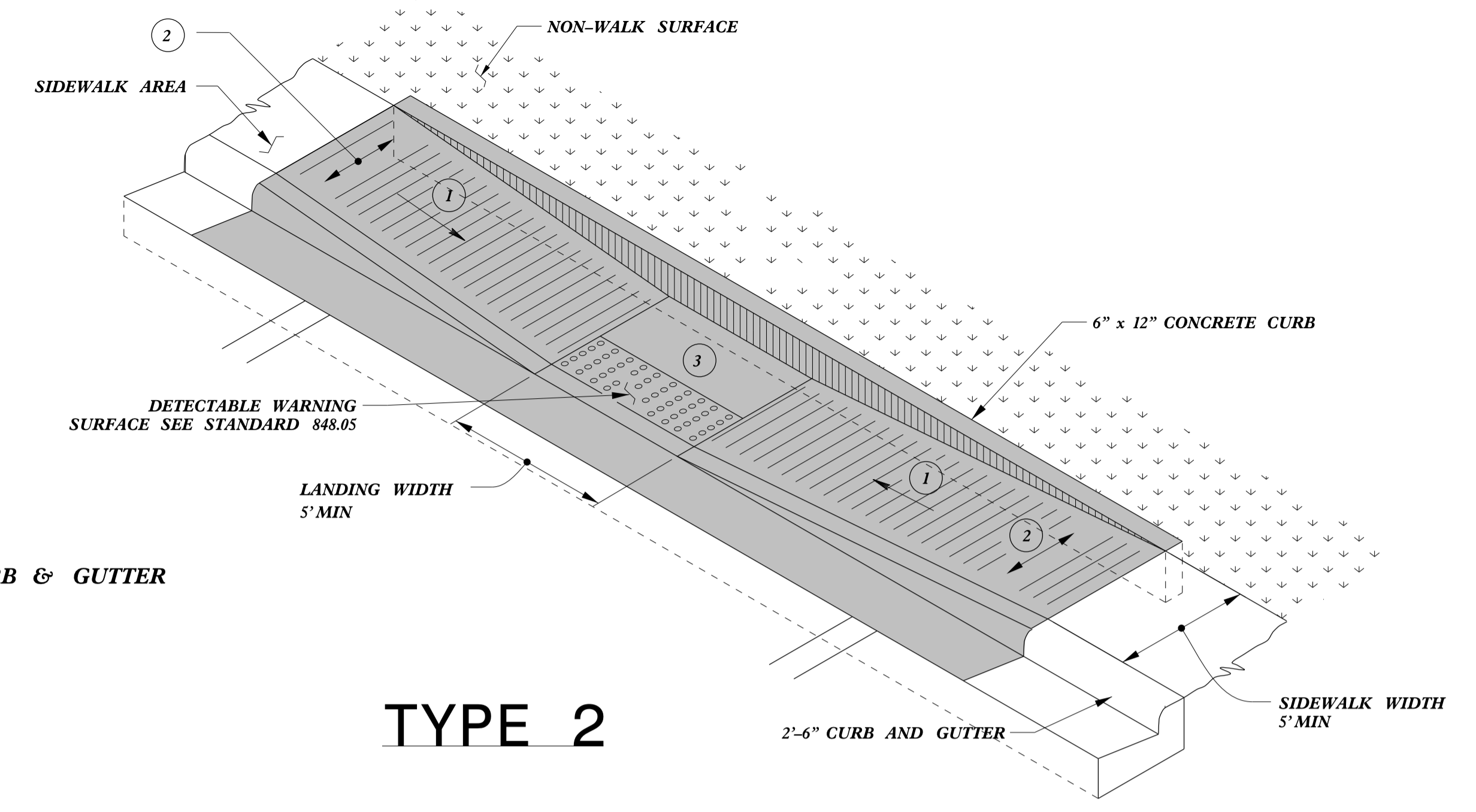
SYSTEMS DESIGN  
 USER NAME



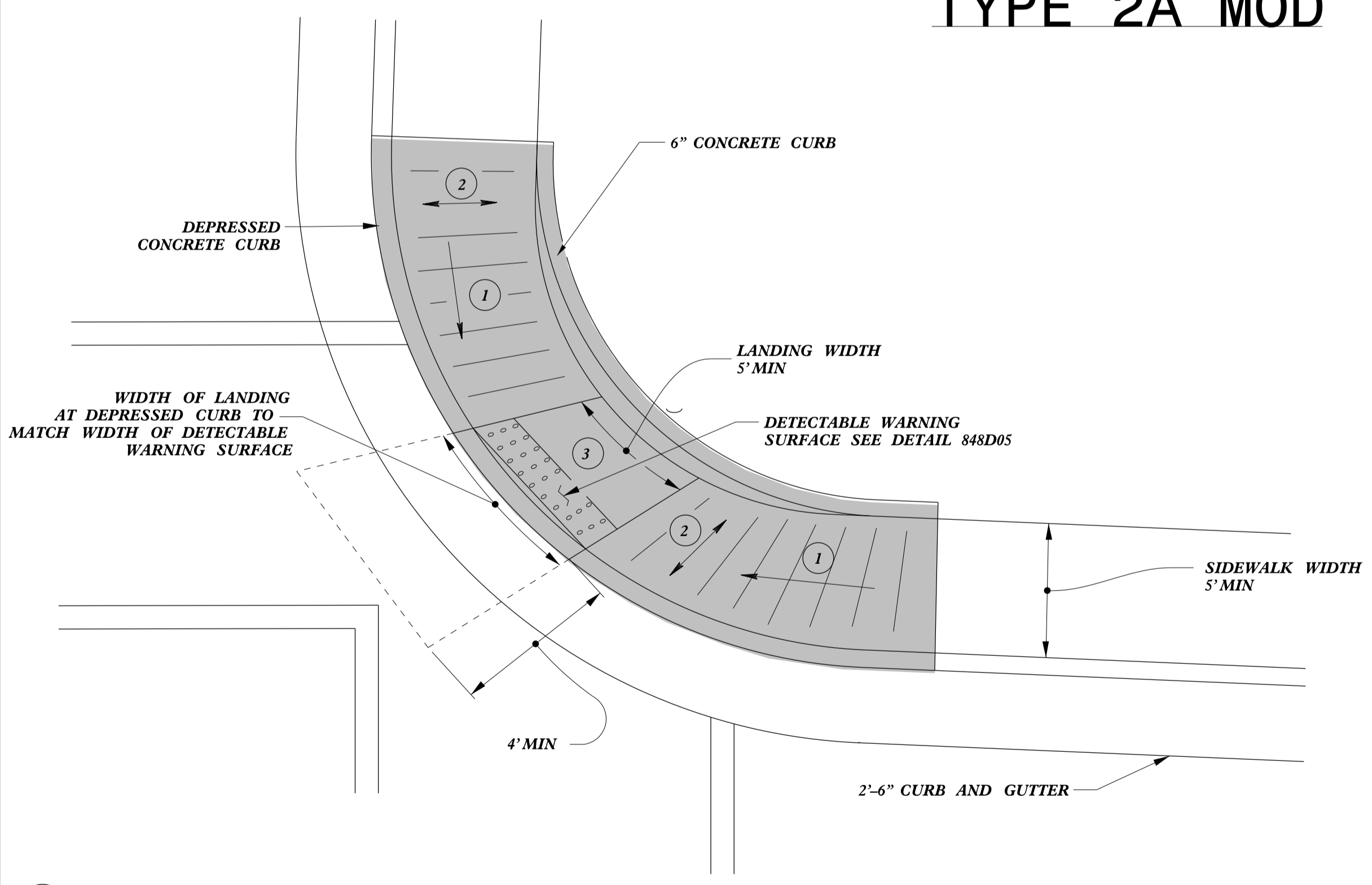
5/14/99



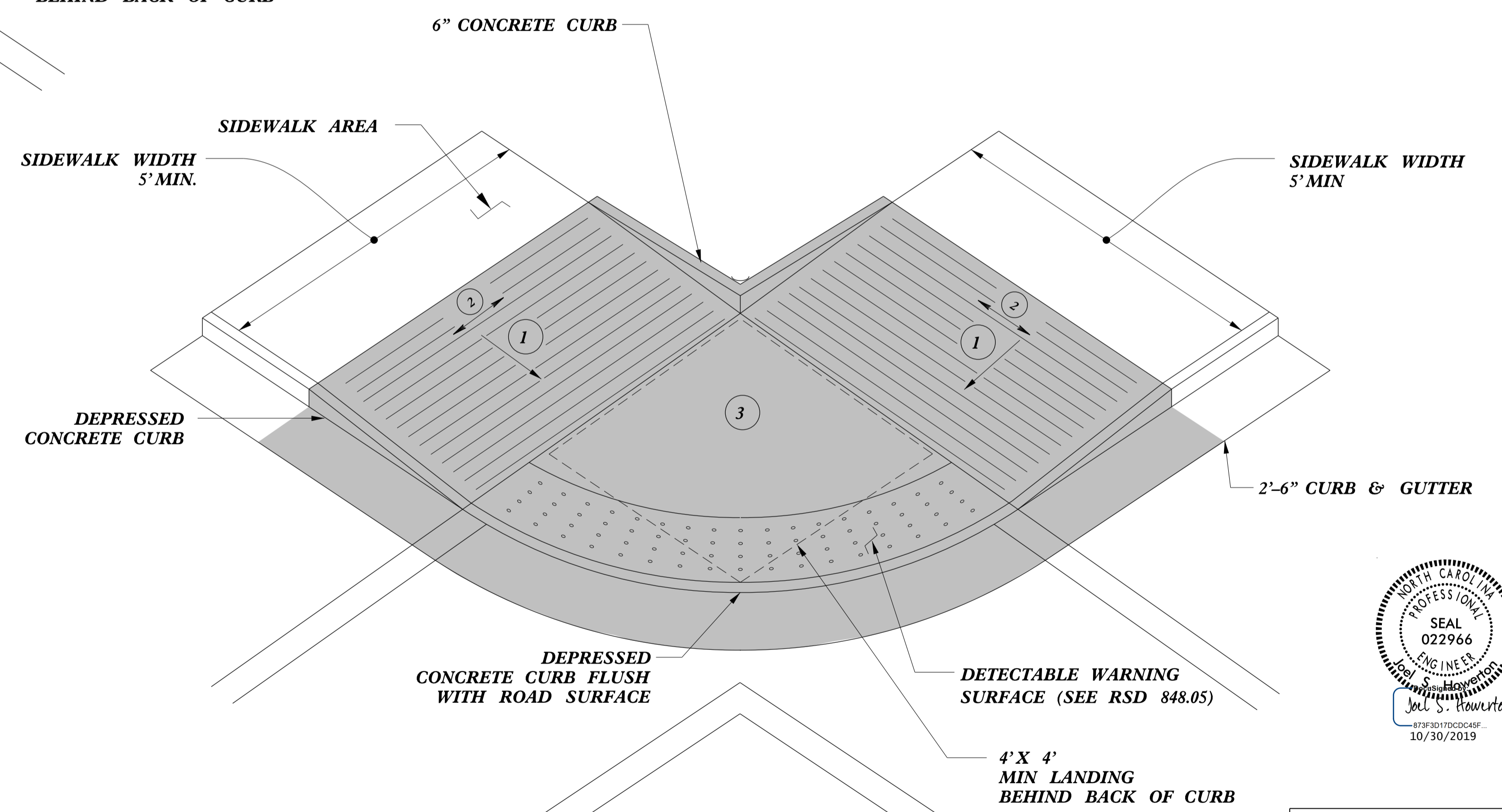
**TYPE 2A MOD**



**TYPE 2**



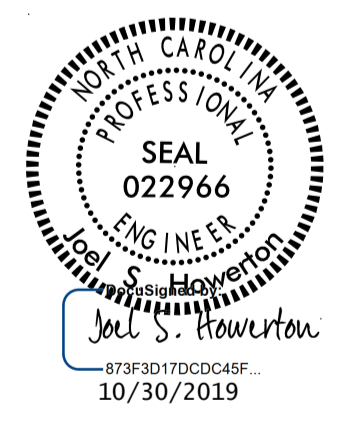
**TYPE 2B**



**TYPE 2A**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR 1 CURB RAMP

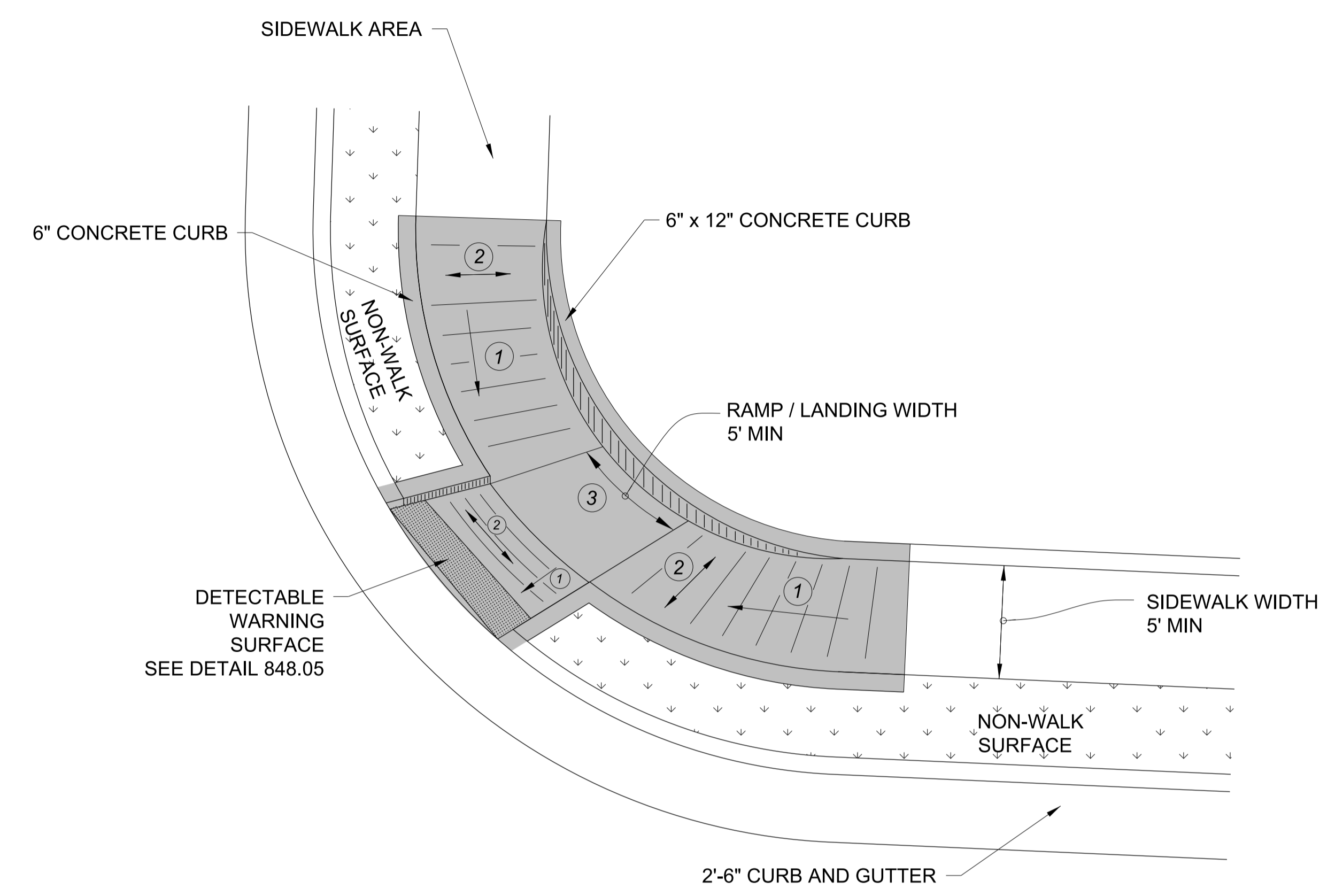


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

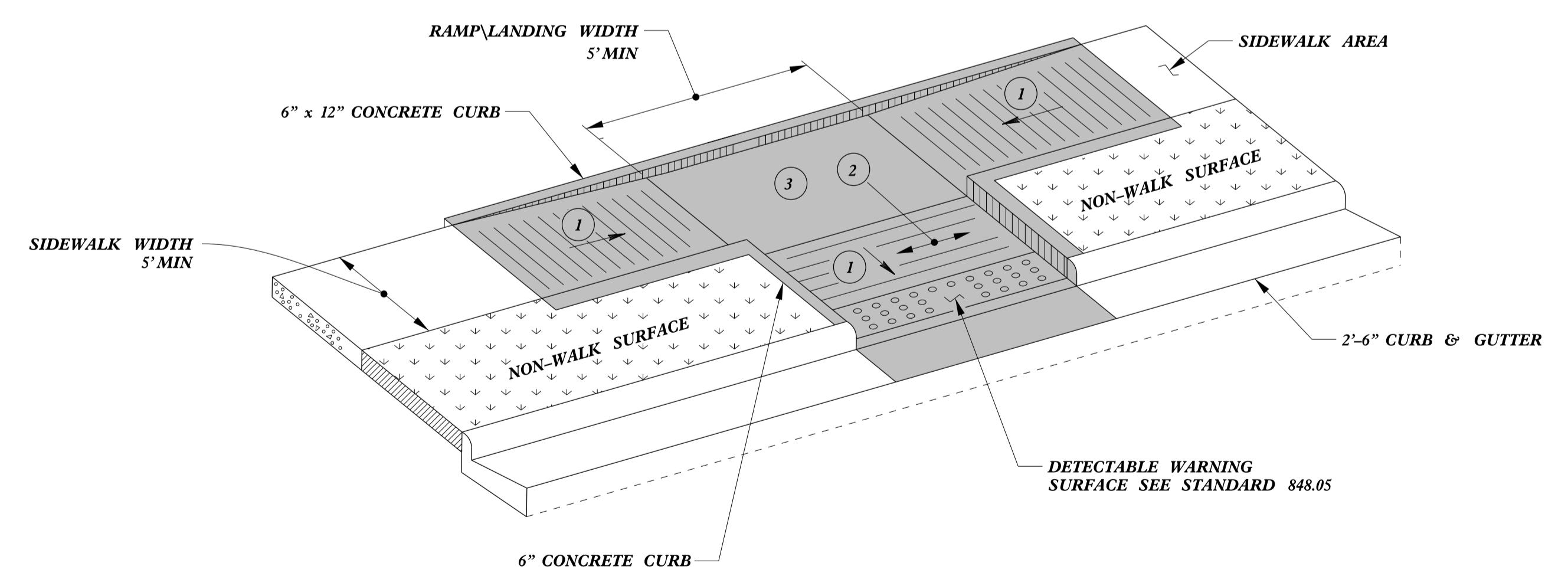
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>CURB RAMPS</b>	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: stds/2012CurbRamp/CurbRampDetails.dgn	

TIME TO CONSTRUCTION  
 CURB RAMPS  
 10/30/2019

PAY LIMITS FOR 1 CURB RAMP



**TYPE 3 MODIFIED  
INSTALLATION IN A RADIUS**



**TYPE 3**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



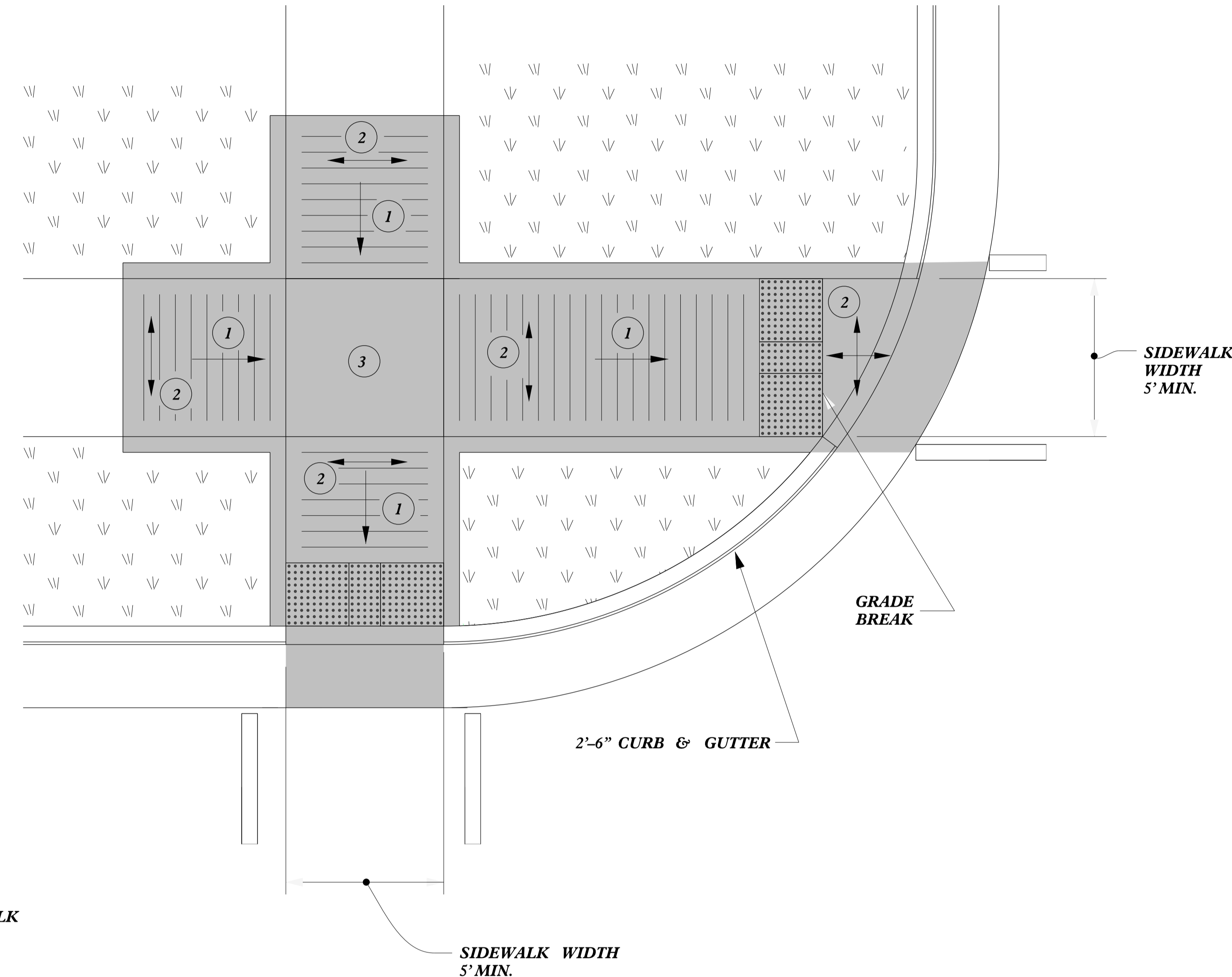
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>CURB RAMPS</b>	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:stds/2012CurbRamp/CurbRampDetails.dgn	

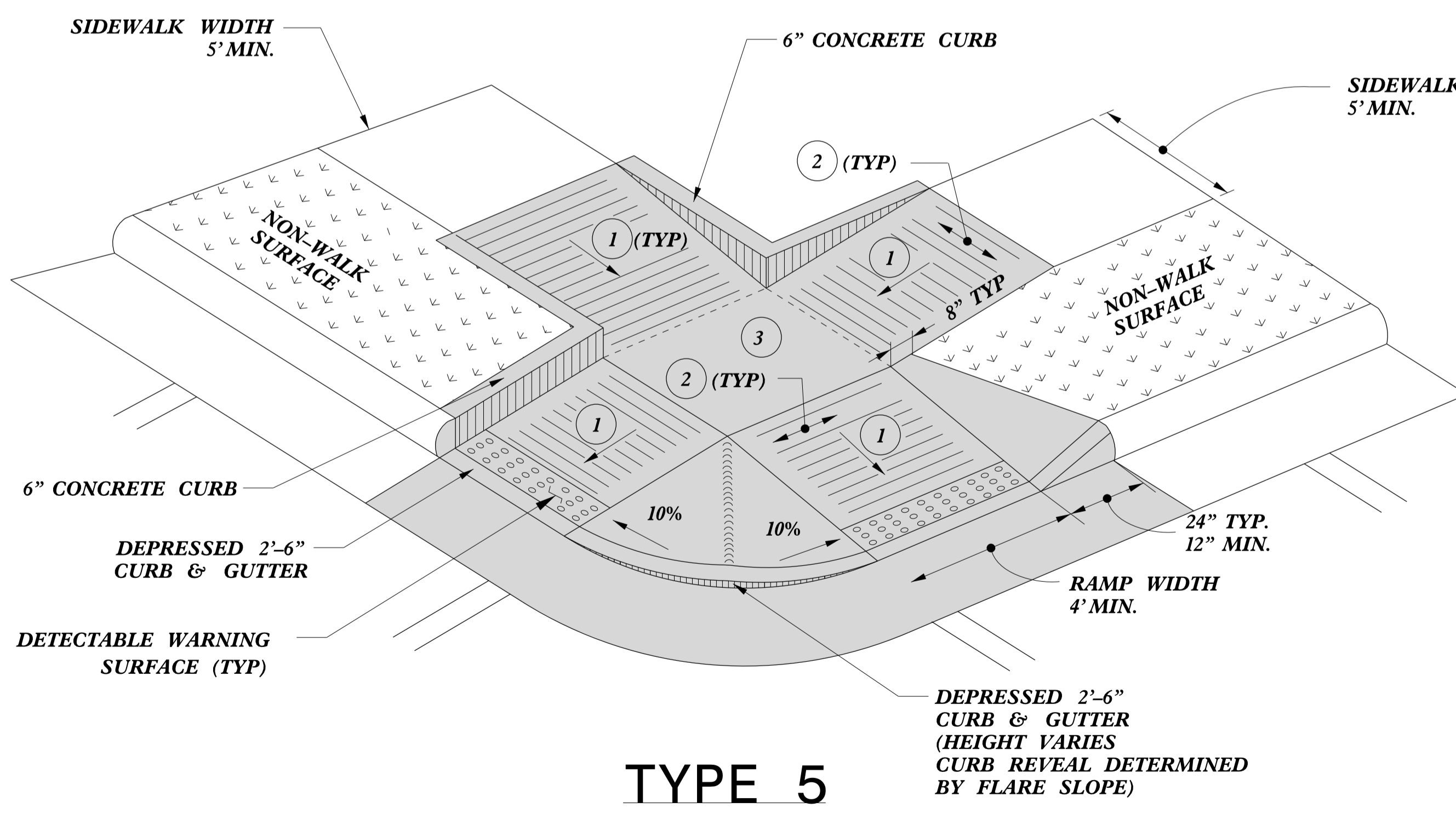
5/14/99  
C:\P\2011\10\30\20111030.dwg



PAY LIMITS FOR 1 OR 2 CURB RAMPS  
(CALCULATE BASED ON NUMBER OF SETS  
OF TRUNCATED DOMES)

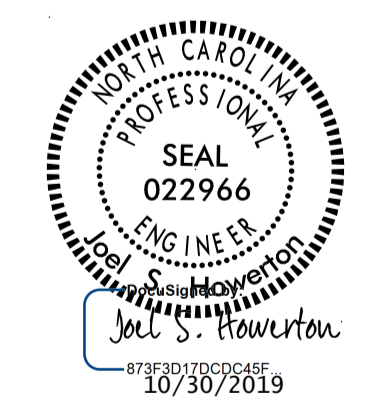


**TYPE 5A**



**TYPE 5**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



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

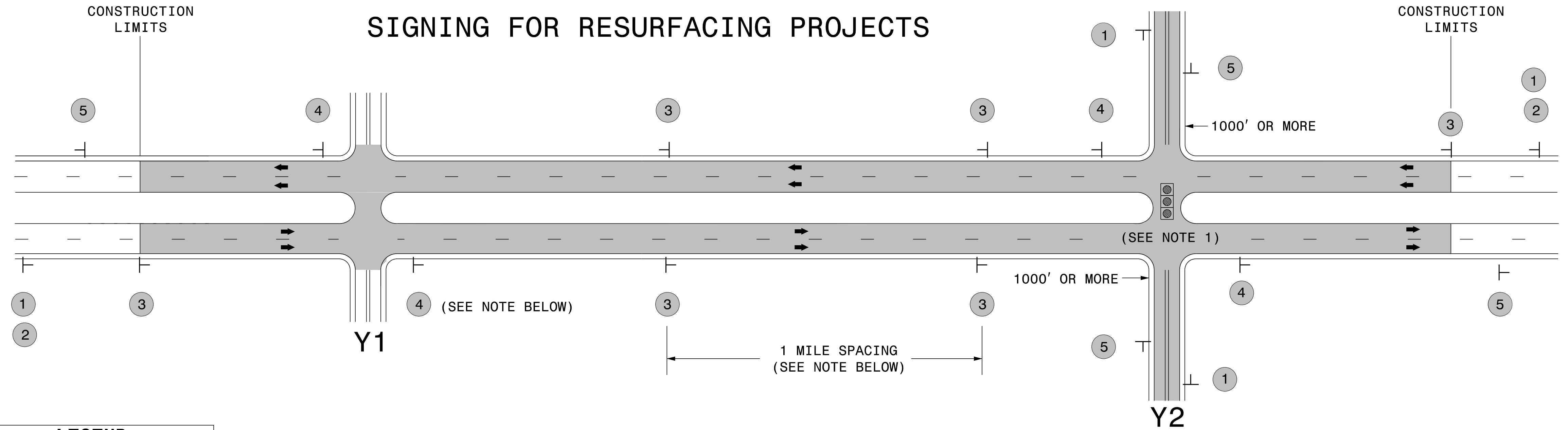
**CURB RAMPS**

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11  
 MODIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 FILE SPEC: :stds/2012CurbRamp/CurbRampDetails.dgn

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/99  
 TIME\$\$\$\$  
 C:\P\PROJECTS\2012\848.05\848.05.dwg  
 USER: JSHWERTON





**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><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <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;">   <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;">   <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>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.</li> </ol>
		<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>	

3/23/2015  
 C:\Users\rmgarrrett\Downloads\Resurfacing\_AdvWarn\_Ltr-Su\_Shldr.dgn  
 User:rmgarrrett

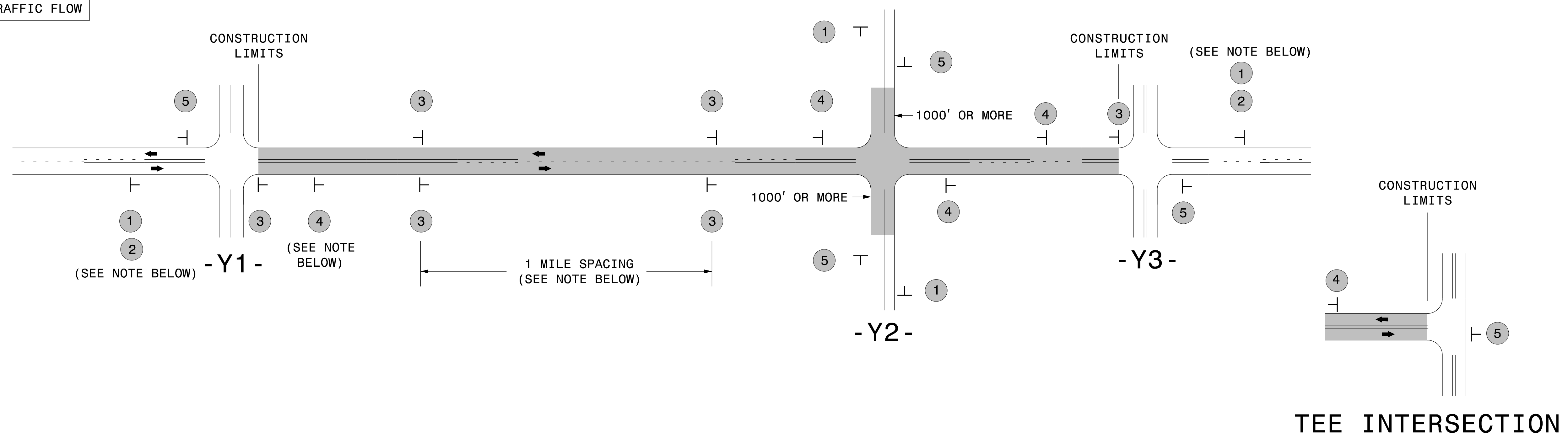
**RESURFACING  
 ADVANCE WARNING SIGNS  
 FOR RURAL AND SUBURBAN  
 MULTI-LANE ROADWAYS  
 W/ SHOULDER SECTIONS**

# SIGNING FOR RESURFACING PROJECTS

**LEGEND**

┆ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



## MAINLINE (-L-) SIGNING

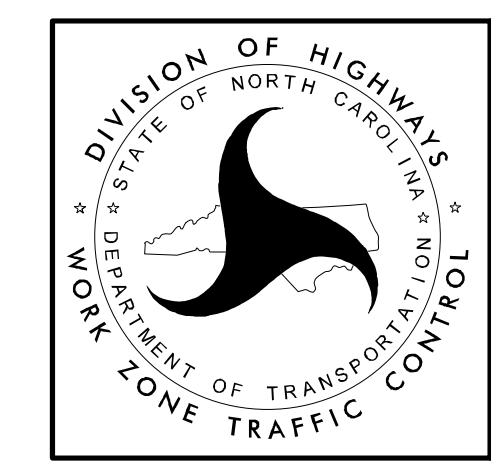
## -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	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><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></p> <ol style="list-style-type: none"> <li>LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>SUBDIVISION ROADS</li> <li>DEAD END ROADS</li> </ol> <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING 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>
	2	 W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN CONSTRUCTION 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"	<ul style="list-style-type: none"> <li>PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</li> <li>AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</li> </ul>	
	4	 SP 13106 48" X 48"	<ul style="list-style-type: none"> <li>THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.</li> <li>DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</li> <li>INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</li> <li>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.</li> <li>A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</li> <li>FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</li> </ul>	
	5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

### MAPS LESS THAN 2 MILES

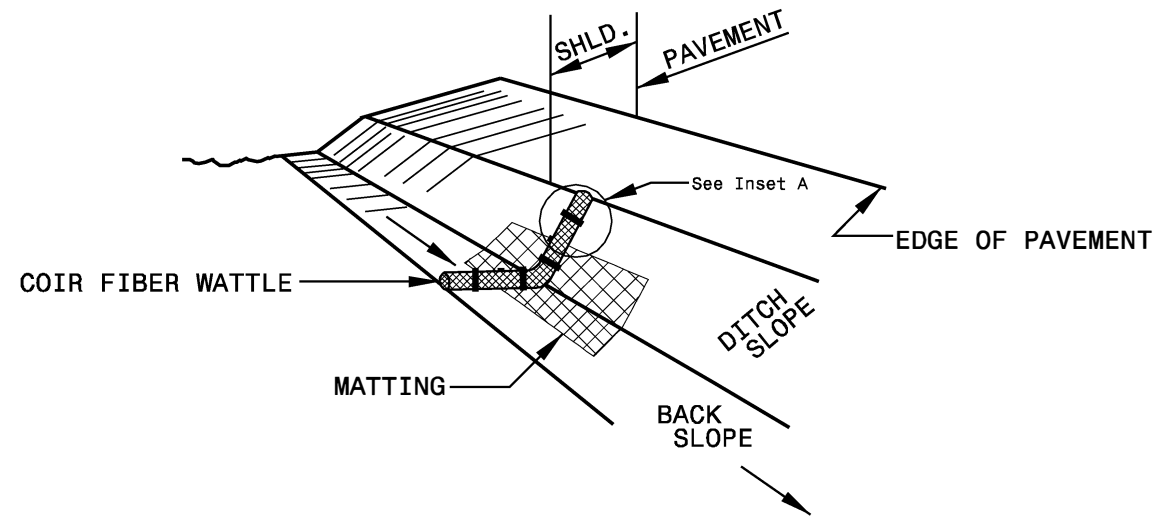
FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



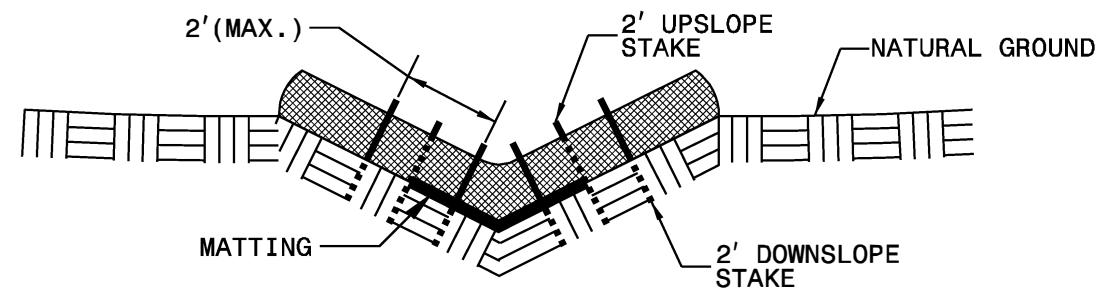
**ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING**

PROJECT REFERENCE NO. 2022CPT-10.16.10601	SHEET NO. EC-26
RW. SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

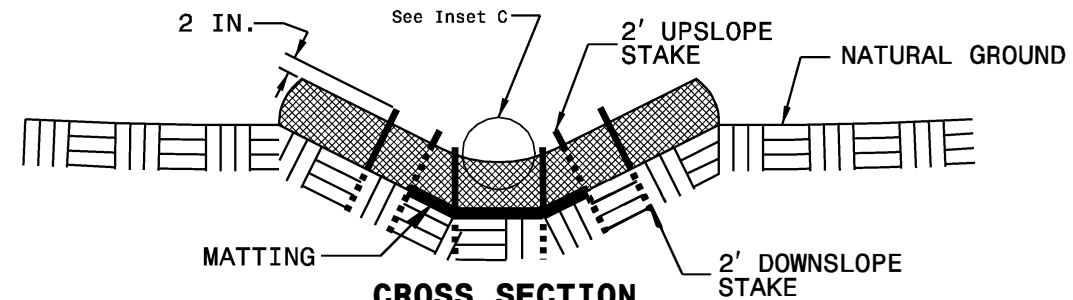
# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION VEE DITCH**



**CROSS SECTION TRAPEZOIDAL DITCH**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) 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.

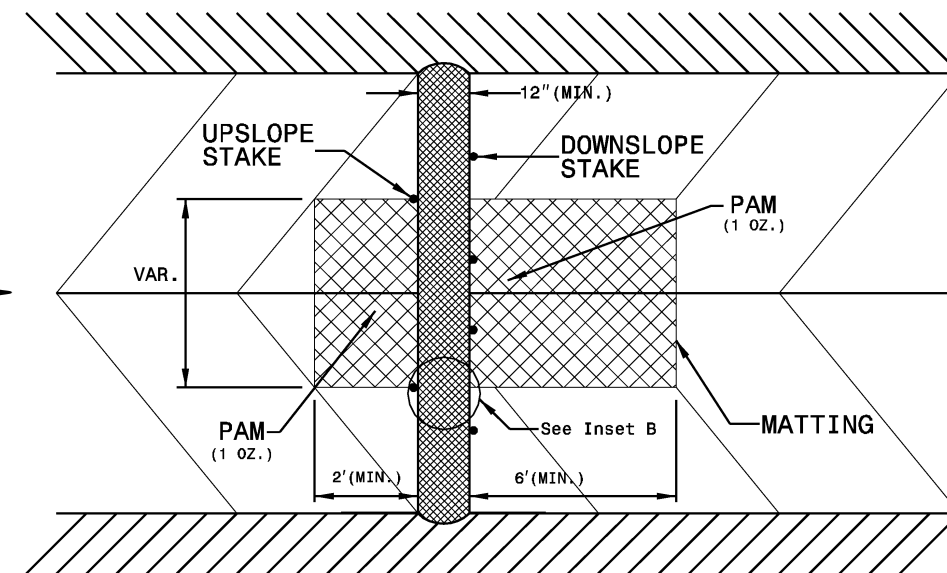
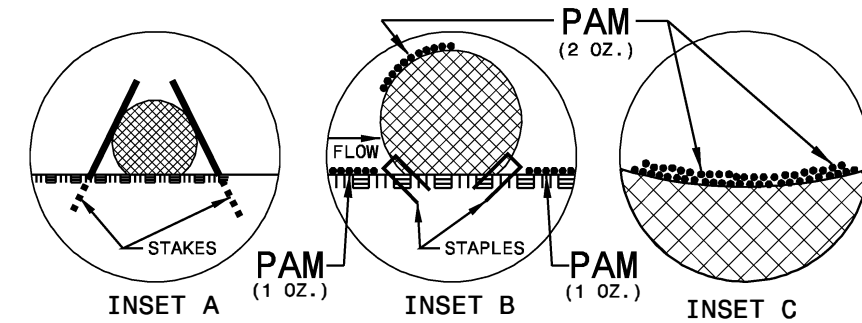
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.



**TOP VIEW**

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.10.16.10601	24	27
2022CPT.10.16.20601		

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0106000000-E	1220000000-E	1245000000-E	1297000000-E	1308000000-E	1330000000-E	1523000000-E	1524200000-E	1575000000-E	1577000000-E	1704000000-E	
												BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1 1/2" MILLING	2" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5C	SURFACE COURSE, S9.5D	ASPHALT BINDER FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT
												MI	FT	CY	TONS	SMI	SY	SY	SY	SY	TONS	TON	TONS
2022CPT.10.16.10601	Mecklenburg	1	NC 27 FREEDOM DRIVE	FROM MT. HOLLY RD (MP 4.05) TO PAVEMENT JOINT JUST PAST LUNDY LANE (MP 5.51)	1,2,3	2	ZWU	NO	NO	1.46	26	219		2.98	537		3,025	5,576	2,851		171		300
<b>TOTAL FOR MAP NO. 1</b>										<b>1.46</b>		<b>219</b>		<b>2.98</b>		<b>3,025</b>	<b>5,576</b>	<b>2,851</b>		<b>171</b>		<b>300</b>	
2022CPT.10.16.10601	Mecklenburg	2	NC 27 FREEDOM DRIVE	FROM EDGEWOOD RD (MP 7.20) TO I-85 BRIDGE (MP 7.41)	4,5	2	MU	NO	NO	0.21	43				5,920				547		33		300
<b>TOTAL FOR MAP NO. 2</b>										<b>0.21</b>					<b>5,920</b>				<b>547</b>		<b>33</b>		<b>300</b>
2022CPT.10.16.10601	Mecklenburg	3	NC 27 FREEDOM DRIVE	FROM I-85 BRIDGE (MP 19.35) TO BRADFORD DRIVE (MP 19.56)	4,5	2	MU	NO	NO	0.21	63				5,490				507		30		50
<b>TOTAL FOR MAP NO. 3</b>										<b>0.21</b>					<b>5,490</b>				<b>507</b>		<b>30</b>		<b>50</b>
<b>TOTAL FOR PROJ NO. 2022CPT.10.16.10601</b>										<b>1.88</b>		<b>219</b>		<b>2.98</b>	<b>11,947</b>		<b>3,025</b>	<b>5,576</b>	<b>3,905</b>		<b>234</b>		<b>650</b>
<b>GRAND TOTAL</b>																							
<b>TOTAL FOR PROJ NO. 2022CPT.10.16.20601</b>										<b>7.64</b>		<b>556</b>	<b>50</b>	<b>7.58</b>	<b>83,402</b>	<b>4,547</b>	<b>9,142</b>	<b>7,510</b>	<b>13,182</b>	<b>561</b>	<b>791</b>	<b>32</b>	<b>2,600</b>

PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.10.16.10601	25	27
2022CPT.10.16.20601		

## SUMMARY OF QUANTITIES (CONT.)

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	2600000000-N	2605000000-N	2612000000-E	2830000000-N	2845000000-N	5255000000-N	6000000000-E	6009000000-E	6012000000-E	6071010000-E	6071020000-E	
												RETROFIT EXISTING CURB RAMPS	CONCRETE CURB RAMPS	6" DRIVEWAYS	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	PORTABLE LIGHTING	TEMPORARY SILT FENCE	STONE FOR EROSION CONTROL, CLASS B	SEDIMENT CONTROL STONE	WATTLE	POLYACRYLAMIDE (PAM)	
												EA	EA	SY	EA	EA	LS	LF	TN	TN	LF	LB	
2022CPT.10.16.10601	Mecklenburg	1	NC 27 FREEDOM DRIVE	FROM MT. HOLLY RD (MP 4.05) TO PAVEMENT JOINT JUST PAST LUNDY LANE (MP 5.51)	1,2,3	2	2WU	NO	NO	1.46	26		1		5	7	0.1	224	30	15	45	1	
<b>TOTAL FOR MAP NO. 1</b>										<b>1.46</b>			<b>1</b>		<b>5</b>	<b>7</b>	<b>0.1</b>	<b>224</b>	<b>30</b>	<b>15</b>	<b>45</b>	<b>1</b>	
2022CPT.10.16.10601	Mecklenburg	2	NC 27 FREEDOM DRIVE	FROM EDGEWOOD RD (MP 7.20) TO I-85 BRIDGE (MP 7.41)	4,5	2	MU	NO	NO	0.21	43		2		1		0.1						
<b>TOTAL FOR MAP NO. 2</b>										<b>0.21</b>			<b>2</b>		<b>1</b>		<b>0.1</b>						
2022CPT.10.16.10601	Mecklenburg	3	NC 27 FREEDOM DRIVE	FROM I-85 BRIDGE (MP 19.35) TO BRADFORD DRIVE (MP 19.56)	4,5	2	MU	NO	NO	0.21	63		5		1	1	0.1						
<b>TOTAL FOR MAP NO. 3</b>										<b>0.21</b>			<b>5</b>		<b>1</b>	<b>1</b>	<b>0.1</b>						
<b>TOTAL FOR PROJ NO. 2022CPT.10.16.10601</b>										<b>1.88</b>			<b>7</b>	<b>1</b>	<b>7</b>	<b>8</b>	<b>0.3</b>	<b>224</b>	<b>30</b>	<b>15</b>	<b>45</b>	<b>1</b>	
2022CPT.10.16.20601	Mecklenburg	4	SR 2691 STATESVILLE AVE	FROM GRHAM ST (MP 0.00) TO I-85 BRIDGE DECK (MP 2.37)	6,7,8,9,10,11	2		NO	NO	2.37	32		3		10	15	0.1						
<b>TOTAL FOR MAP NO. 4</b>										<b>2.37</b>			<b>3</b>		<b>10</b>	<b>15</b>	<b>0.1</b>						
2022CPT.10.16.20601	Mecklenburg	5	SR 2691 STATESVILLE AVE	FROM TIPTON DRIVE (MP 2.85) TO END DIVIDE AT NORRIS AVE (MP 3.73)	7,8	2		NO	NO	0.88	24				4	7	0.1						
<b>TOTAL FOR MAP NO. 5</b>										<b>0.88</b>				<b>4</b>	<b>7</b>	<b>0.1</b>							
2022CPT.10.16.20601	Mecklenburg	6	SR 2691 STATESVILLE AVE	FROM BEGIN DIVIDE AT RXR CROSSING (MP 4.80) TO JUST PRIOR TO OLIVER ST (MP 4.85)	8	2		NO	NO	0.05	24						0.1						
<b>TOTAL FOR MAP NO. 6</b>										<b>0.05</b>							<b>0.1</b>						
2022CPT.10.16.20601	Mecklenburg	7	SR 2691 STATESVILLE AVE	FROM BEGIN DIVIDE AT DALTON AVE (MP 4.96) TO END DIVIDE AT GRAHAM ST (MP 5.01)	8	2		NO	NO	0.05	24						0.1						
<b>TOTAL FOR MAP NO. 7</b>										<b>0.05</b>							<b>0.1</b>						
2022CPT.10.16.20601	Mecklenburg	8	SR 1010 W. JOHN STREET	FROM MATTHEWS TOWNSHIP PKWY (MP 0.00) TO END DIVIDE (MP 0.09)	12	2		NO	NO	0.09	24		1		3	4	0.1						
<b>TOTAL FOR MAP NO. 8</b>										<b>0.09</b>			<b>1</b>		<b>3</b>	<b>4</b>	<b>0.1</b>						
2022CPT.10.16.20601	Mecklenburg	9	SR 1010 W. JOHN STREET	FROM NORTH TRADE STREET (MP 2.28) TO MATTHEWS TOWNSHIP PARKWAY (MP 2.84)	12,13,14	2		NO	NO	0.56	48		4	6	8	11	0.1						
<b>TOTAL FOR MAP NO. 9</b>										<b>0.56</b>			<b>4</b>	<b>6</b>	<b>8</b>	<b>11</b>	<b>0.1</b>						
2022CPT.10.16.20601	Mecklenburg	10	SR 1010 E. JOHN STREET	FROM 0.10 MILES EAST OF GREYLOCK RIDE RD (MP 1.36) TO NORTH TRADE STREET (MP 2.28)	15,16,17	2		NO	NO	0.92	24		3	1	31	5	11	0.1	222	30	15	45	1
<b>TOTAL FOR MAP NO. 10</b>										<b>0.92</b>			<b>3</b>	<b>1</b>	<b>31</b>	<b>5</b>	<b>11</b>	<b>0.1</b>	<b>222</b>	<b>30</b>	<b>15</b>	<b>45</b>	<b>1</b>
2022CPT.10.16.20601	Mecklenburg	11	SR 2830 JOHN RUSSELL ROAD	FROM MCLEAN ROAD (MP 0.00) TO BACK CREEK CHURCH ROAD (MP 0.84)	18,19	2		NO	NO	0.84	24		1	60		4		126	17	9	25	1	
<b>TOTAL FOR MAP NO. 11</b>										<b>0.84</b>			<b>1</b>	<b>60</b>		<b>4</b>		<b>126</b>	<b>17</b>	<b>9</b>	<b>25</b>	<b>1</b>	
<b>TOTAL FOR PROJ NO. 2022CPT.10.16.20601</b>										<b>5.76</b>			<b>7</b>	<b>12</b>	<b>91</b>	<b>30</b>	<b>52</b>	<b>0.7</b>	<b>348</b>	<b>47</b>	<b>24</b>	<b>70</b>	<b>2</b>
<b>GRAND TOTAL</b>										<b>7.64</b>			<b>14</b>	<b>13</b>	<b>91</b>	<b>37</b>	<b>60</b>	<b>1.0</b>	<b>572</b>	<b>77</b>	<b>39</b>	<b>115</b>	<b>3</b>



PROJECT NO.	SHEET NO.	TOTAL NO.
2022CPT.10.16.10601	27	27
2022CPT.10.16.20601		

### THERMOPLASTIC AND PAINT QUANTITIES (CONT.)

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	481000000-E		481500000-E		482000000-E		483000000-E		483500000-E		484000000-N				489000000-E	489100000-E		489500000-N	494000000-N				
										4" WHITE PAINT	4" YELLOW PAINT	6" WHITE PAINT	8" WHITE PAINT	8" YELLOW PAINT	16" WHITE PAINT	24" WHITE PAINT	PAINT MSG ONLY	PAINT MSG RXR	PAINT LT ARROW	PAINT RT ARROW	PAINT STR ARROW	PAINT STR & RT ARROW	CONTRAST COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE II (6")	THERMOPLASTIC PAVEMENT MARKING LINES WHITE (16", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES WHITE (24", 90 MILS)	NON-CAST IROM SNOWPLOWABLE PAVEMENT MARKERS	FLEXIBLE DELINEATORS (YELLOW)					
									MI	FT	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA					
2022CPT.10.16.10601	Mecklenburg	1	NC 27 FREEDOM DRIVE	FROM MT. HOLLY RD (MP 4.05) TO PAVEMENT JOINT JUST PAST LUNDY LANE (MP 5.51)	1,2,3	2	2WU	1.46	26																							
<b>TOTAL FOR MAP NO. 1</b>									1.46																	44	203	109				
2022CPT.10.16.10601	Mecklenburg	2	NC 27 FREEDOM DRIVE	FROM EDGEWOOD RD (MP 7.20) TO I-85 BRIDGE (MP 7.41)	4,5	2	MU	0.21	43	1,100	1,100		451			50				4	2	9					50	40				
<b>TOTAL FOR MAP NO. 2</b>									0.21		1,100	1,100	451		50			4	2	9									50	40		
2022CPT.10.16.10601	Mecklenburg	3	NC 27 FREEDOM DRIVE	FROM I-85 BRIDGE (MP 19.35) TO BRADFORD DRIVE (MP 19.56)	4,5	2	MU	0.21	63	1,130	1,100		430			45		8		2	4						45	40				
<b>TOTAL FOR MAP NO. 3</b>									0.21		1,130	1,100	430		45		8		2	4									45	40		
<b>TOTAL FOR PROJ NO. 2022CPT.10.16.10601</b>									1.88		2,230	2,200	881		95		8		6	6	9								44	298	189	
										4,430			881					8			21											
2022CPT.10.16.20601	Mecklenburg	4	SR 2691 STATESVILLE AVE	FROM GRHAM ST (MP 0.00) TO I-85 BRIDGE DECK (MP 2.37)	6,7,8,9,10,11	2		2.37	32	5,500	17,127	4,200	1,700	200	176	340			2	54	4	9	3	40	176	315						
<b>TOTAL FOR MAP NO. 4</b>									2.37		5,500	17,127	4,200	1,700	200	176	340			2	54	4	9	3	40	176	315					
2022CPT.10.16.20601	Mecklenburg	5	SR 2691 STATESVILLE AVE	FROM TIPTON DRIVE (MP 2.85) TO END DIVIDE AT NORRIS AVE (MP 3.73)	7,8	2		0.88	24	2,010	4,070		1,075			50		8		11	6			40		50						
<b>TOTAL FOR MAP NO. 5</b>									0.88		2,010	4,070	1,075		50		8		11	6					40		50					
2022CPT.10.16.20601	Mecklenburg	6	SR 2691 STATESVILLE AVE	FROM BEGIN DIVIDE AT RXR CROSSING (MP 4.80) TO JUST PRIOR TO OLIVER ST (MP 4.85)	8	2		0.05	24	133	466		14							1												
<b>TOTAL FOR MAP NO. 6</b>									0.05		133	466	14						1													
2022CPT.10.16.20601	Mecklenburg	7	SR 2691 STATESVILLE AVE	FROM BEGIN DIVIDE AT DALTON AVE (MP 4.96) TO END DIVIDE AT GRAHAM ST (MP 5.01)	8	2		0.05	24	144			144			24		8								24						
<b>TOTAL FOR MAP NO. 7</b>									0.05		144		144		24		8			4								24				
2022CPT.10.16.20601	Mecklenburg	8	SR 1010 W. JOHN STREET	FROM MATTHEWS TOWNSHIP PKWY (MP 0.00) TO END DIVIDE (MP 0.09)	12	2		0.09	24	450	435		195			15				1	3					15						
<b>TOTAL FOR MAP NO. 8</b>									0.09		450	435	195		15				1	3								15				
2022CPT.10.16.20601	Mecklenburg	9	SR 1010 W. JOHN STREET	FROM NORTH TRADE STREET (MP 2.28) TO MATTHEWS TOWNSHIP PARKWAY (MP 2.84)	12,13,14	2		0.56	48	2,162	6,195		610	35		120		8		13	2	4	3			120						
<b>TOTAL FOR MAP NO. 9</b>									0.56		2,162	6,195	610	35	120		8		13	2	4	3						120				
2022CPT.10.16.20601	Mecklenburg	10	SR 1010 E. JOHN STREET	FROM 0.10 MILES EAST OF GREYLOCK RIDE RD (MP 1.36) TO NORTH TRADE STREET (MP 2.28)	15,16,17	2		0.92	24																	35	5					
<b>TOTAL FOR MAP NO. 10</b>									0.92																				35	5		
2022CPT.10.16.20601	Mecklenburg	11	SR 2830 JOHN RUSSELL ROAD	FROM MCLEAN ROAD (MP 0.00) TO BACK CREEK CHURCH ROAD (MP 0.84)	18,19	2		0.84	24																	20						
<b>TOTAL FOR MAP NO. 11</b>									0.84																				20			
<b>TOTAL FOR PROJ NO. 2022CPT.10.16.20601</b>									5.76		10,399	28,293	4,200	3,738	235	176	549	24	2	80	19	13	6	80	176	579					5	
										38,692			3,973					26		118												
<b>GRAND TOTAL</b>									7.64		12,629	30,493	4,200	4,619	235	176	644	32	2	86	25	22	6	80	220	877	189		5			
										43,122			4,854					34		139												