

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION 6

PLANS

LETTING DATE: NOVEMBER 3, 2021

CONTRACT ID: DF00284

TIP NO.: R-5786HA, R-5786HB & R-5786HC

FEDERAL AID NO.: TAP-0620065, TAP-0620066 & TAP-0620067

WBS ELEMENT NO.: 44916.3.16, 44916.3.17 & 44916.3.18

ROUTE NO.: VARIOUS

LOCATION: VARIOUS

COUNTY: BLADEN, COLUMBUS, CUMBERLAND, HARNETT & ROBESON

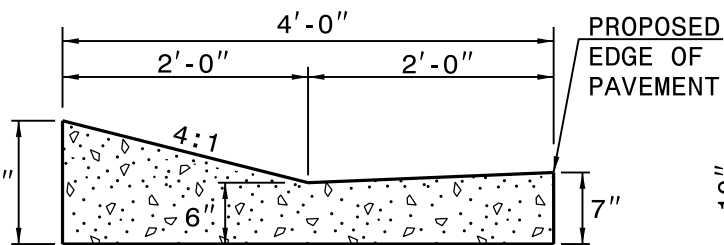
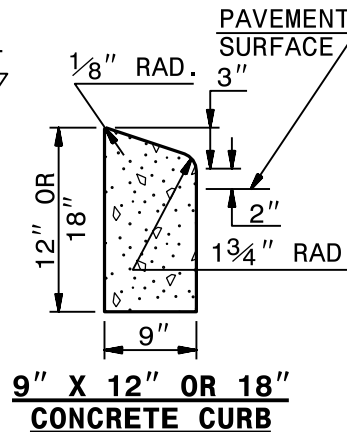
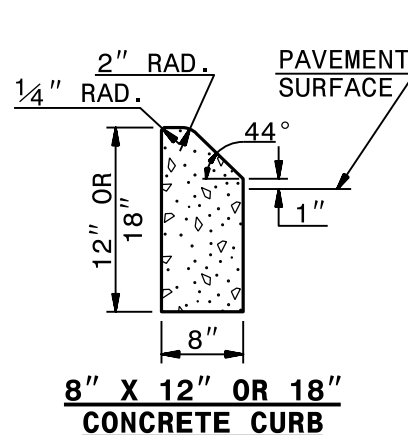
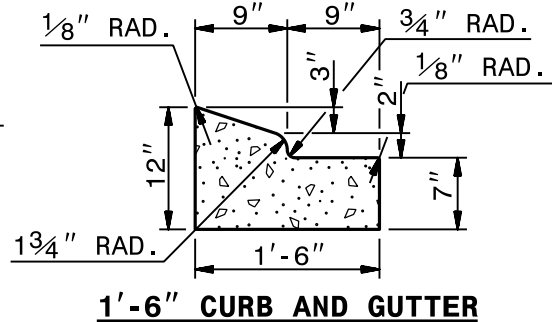
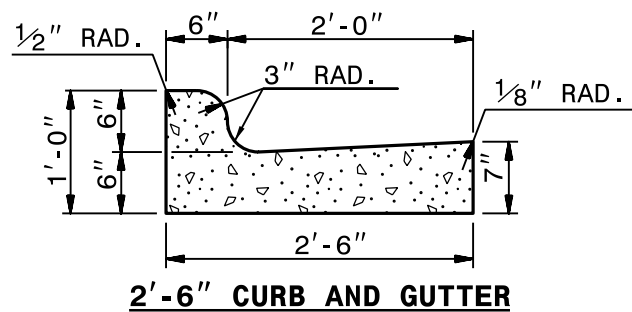
LENGTH OF PROJECT: VARIES

TYPE OF WORK: CONCRETE INSTALLATIONS

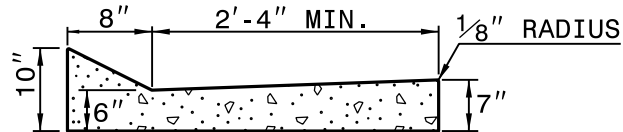
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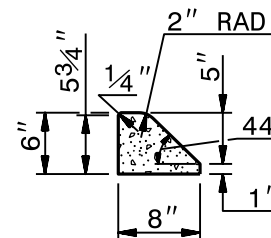
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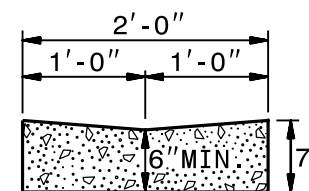
EXPRESSWAY GUTTER



SHOULDER BERM GUTTER



8\"/>

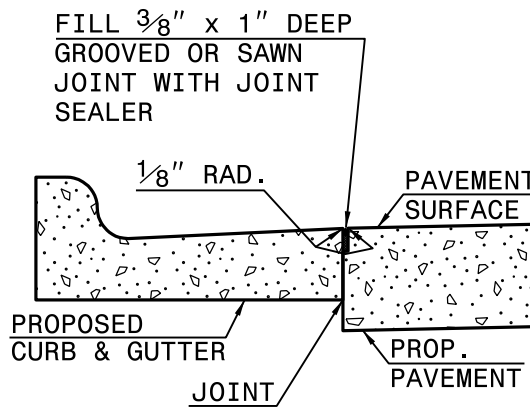


VALLEY GUTTER

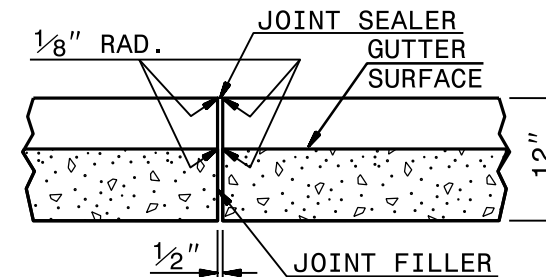
SECTION VIEW OF CURBS OR CURBS AND GUTTERS

GENERAL NOTES:

- PLACE CONTRACTION JOINTS AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS.
- JOINT SPACING MAY BE ALTERED IF REQUIRED BY THE ENGINEER.
- CONTRACTION JOINTS MAY BE INSTALLED WITH THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS.
- CONSTRUCT NON-TEMPLATE FORMED JOINTS A MIN. OF 1 1/2" DEEP.
- FILL ALL CONSTRUCTION JOINTS, EXCEPT IN 8"x6" MEDIAN CURB, WITH JOINT FILLER AND SEALER.
- SPACE EXPANSION JOINTS AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.



LONGITUDINAL JOINT



TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER

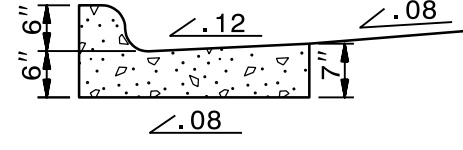
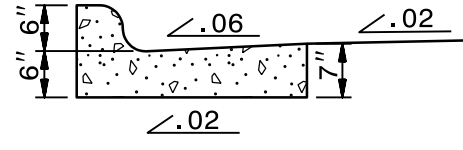
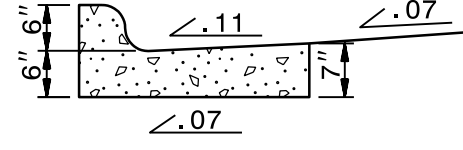
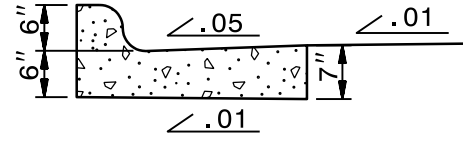
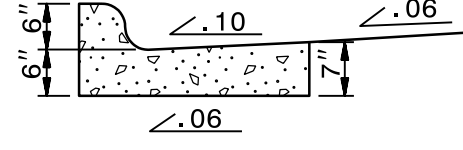
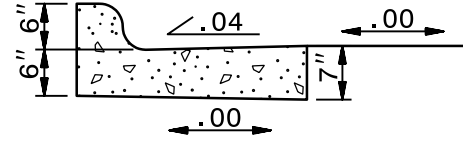
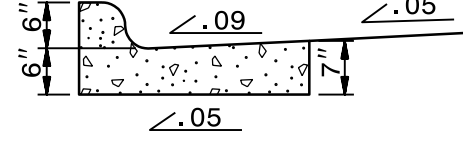
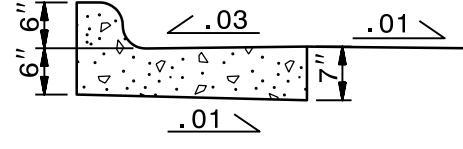
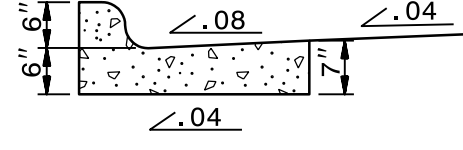
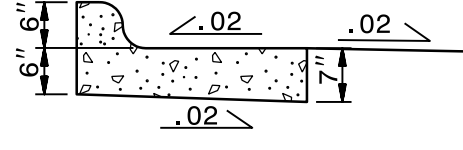
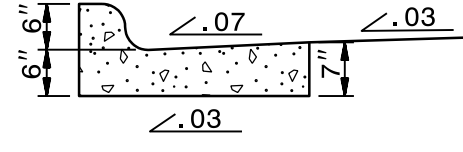
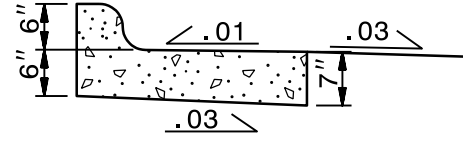
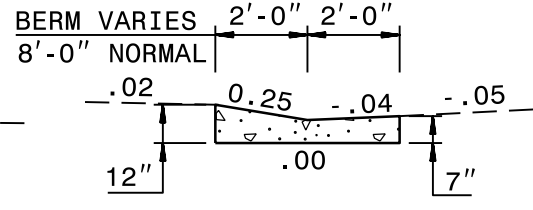
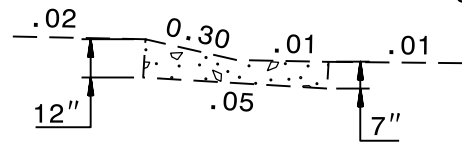
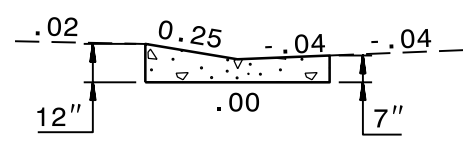
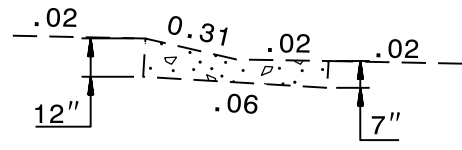
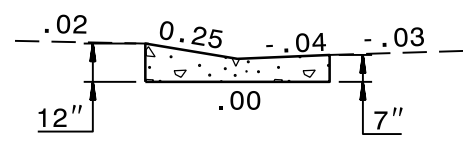
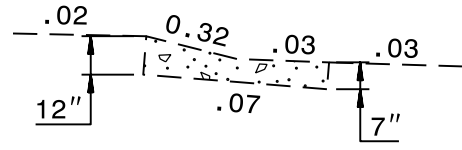
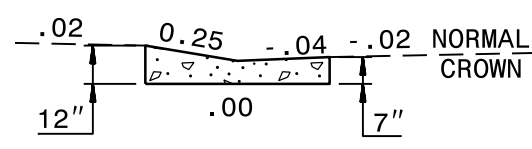
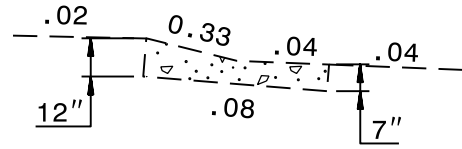
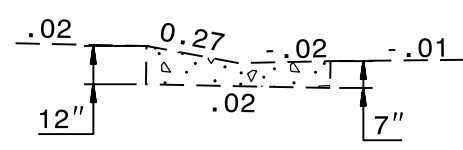
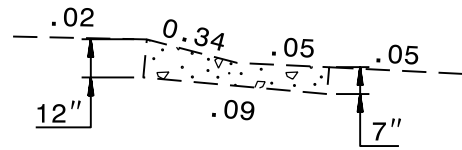
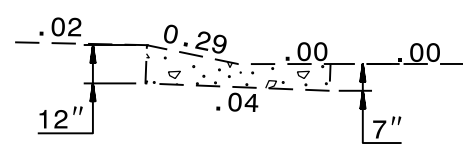
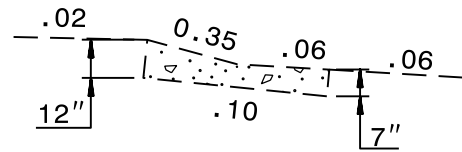
SECTION VIEW OF JOINTS

ROADWAY STANDARD DRAWING FOR

CONCRETE CURB, GUTTER AND CURB & GUTTER

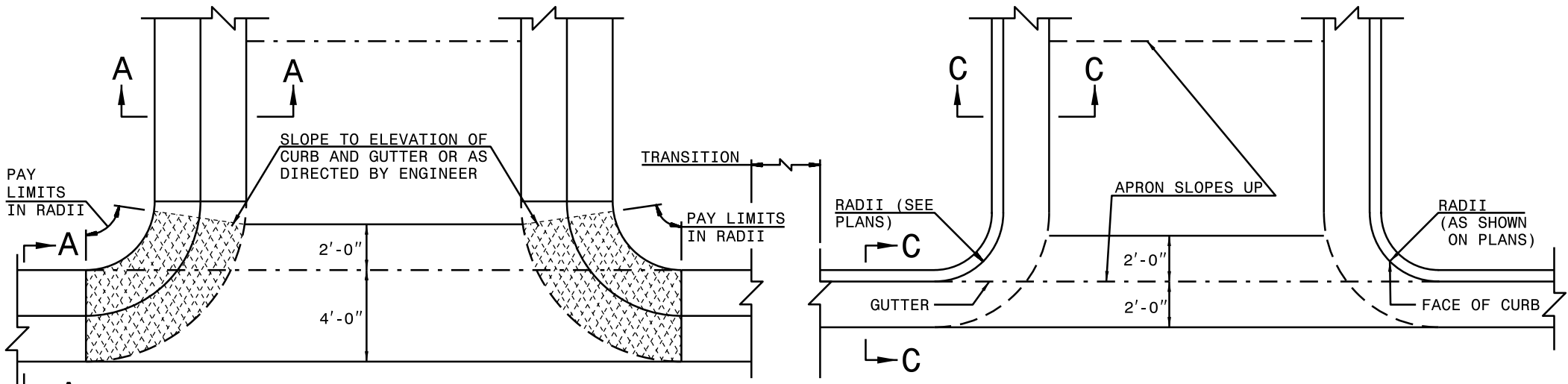
1-18

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DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.



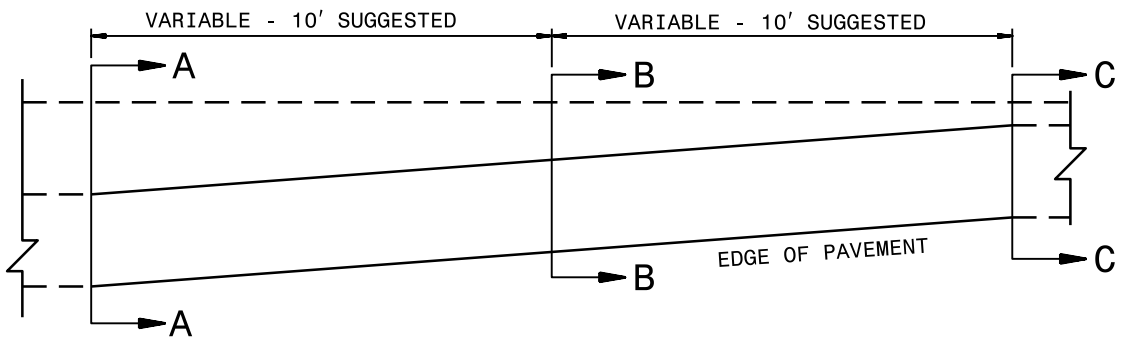
SECTION VIEWS OF EXPRESSWAY GUTTER IN SUPER ELEVATION

SECTION VIEWS OF 2'-6" CURB AND GUTTER SUPERELEVATION RATES

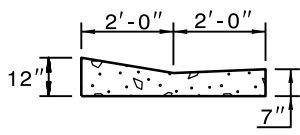


DRIVEWAY WITH EXPRESSWAY GUTTER TRANSITION DRIVEWAY WITH 2'-6" CURB AND GUTTER

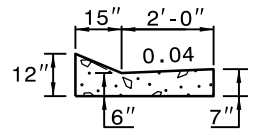
PLAN VIEW OF TYPICAL CURB AND GUTTER OCCURENCES



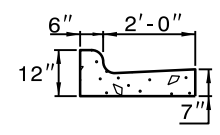
**PLAN VIEW OF TRANSITION
EXPRESSWAY GUTTER TO 2'-6" CURB AND GUTTER**



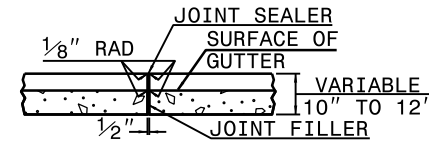
**SECTION A-A
EXPRESSWAY GUTTER**



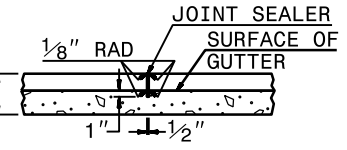
**SECTION B-B
TRANSITION GUTTER**



**SECTION C-C
2'-6" CURB & GUTTER**



EXPANSION JOINT



CONTRACTION JOINT

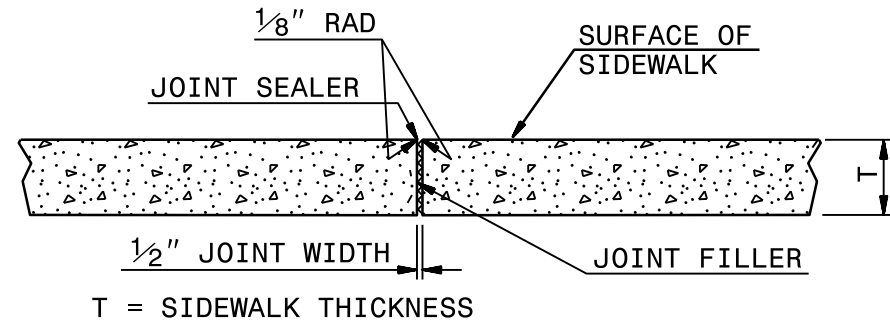
- NOTES:
- IN THE TRANSITION FROM 4'-0" CONCRETE EXPRESSWAY GUTTER TO 2'-6" CONCRETE CURB AND GUTTER, PLACE 1/2" EXPANSION JOINTS AT 25' INTERVALS.
 - PLACE GROOVE JOINTS 1" DEEP AT 12'-6" INTERVALS BETWEEN EXPANSION JOINTS.
 - FILL AND SEAL THE TOP 1/2" OF THE EXPANSION JOINTS AND 1" OF CONTRACTION JOINTS WITH APPROVED JOINT SEALING COMPOUND.

NOTES:

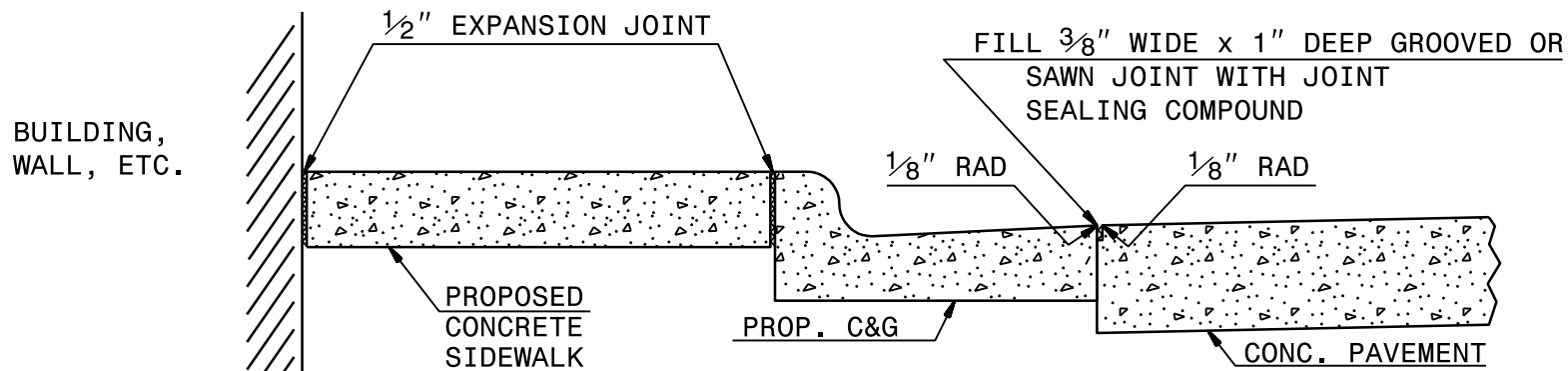
CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

PLACE A GROOVE JOINT 1" DEEP WITH $\frac{1}{8}$ " RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE $\frac{1}{2}$ " EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A $\frac{1}{2}$ " EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE STD. DWG. 848.05 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.

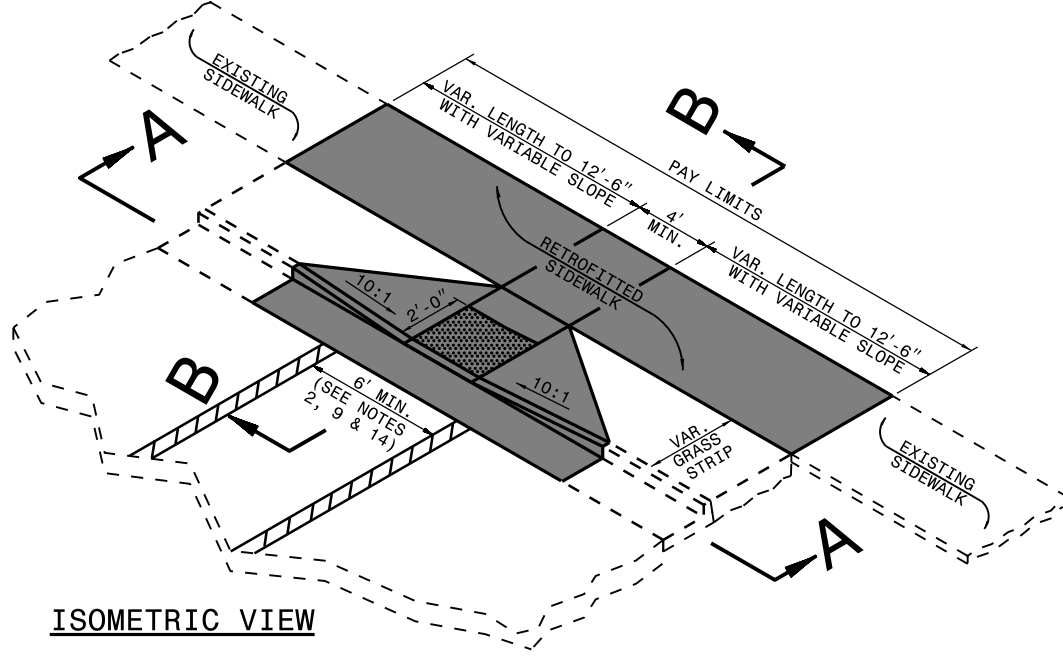


TRANSVERSE EXPANSION JOINT
IN SIDEWALK



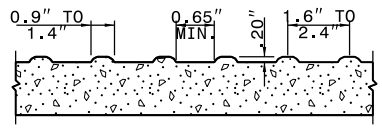
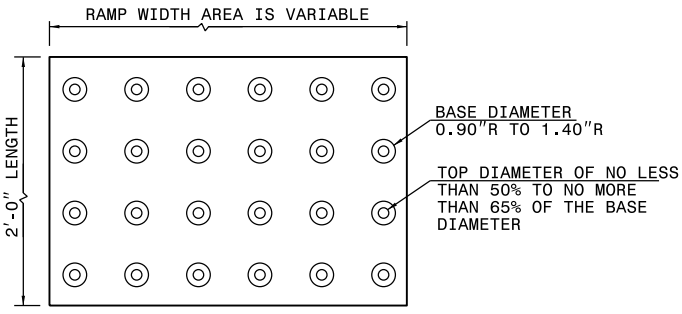
DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

CURB RAMP AND EXISTING SIDEWALK WITH GRASS STRIP



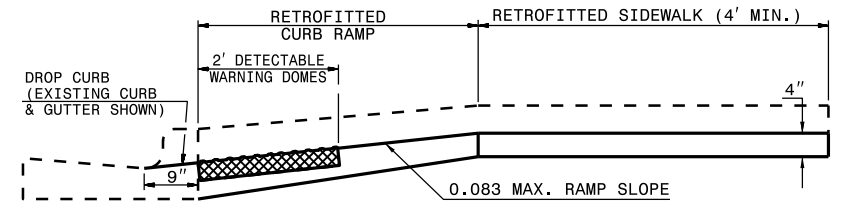
ISOMETRIC VIEW

PAY LIMITS OF CURB RAMP

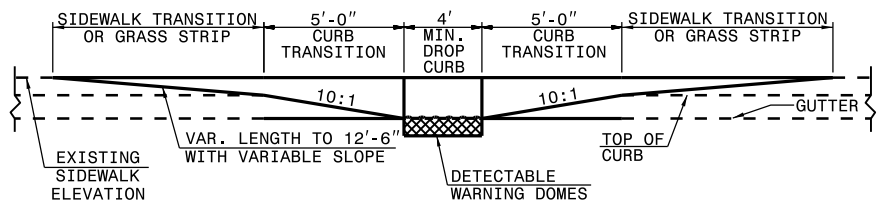


DETECTABLE WARNING DOMES

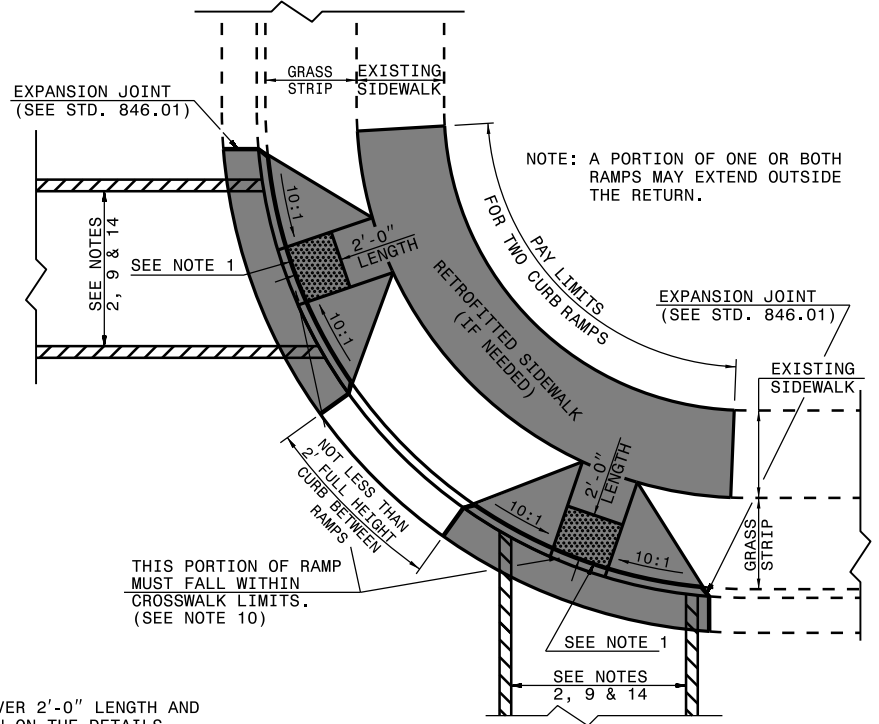
- NOTES:**
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



SECTION B-B



SECTION A-A



PLAN VIEW

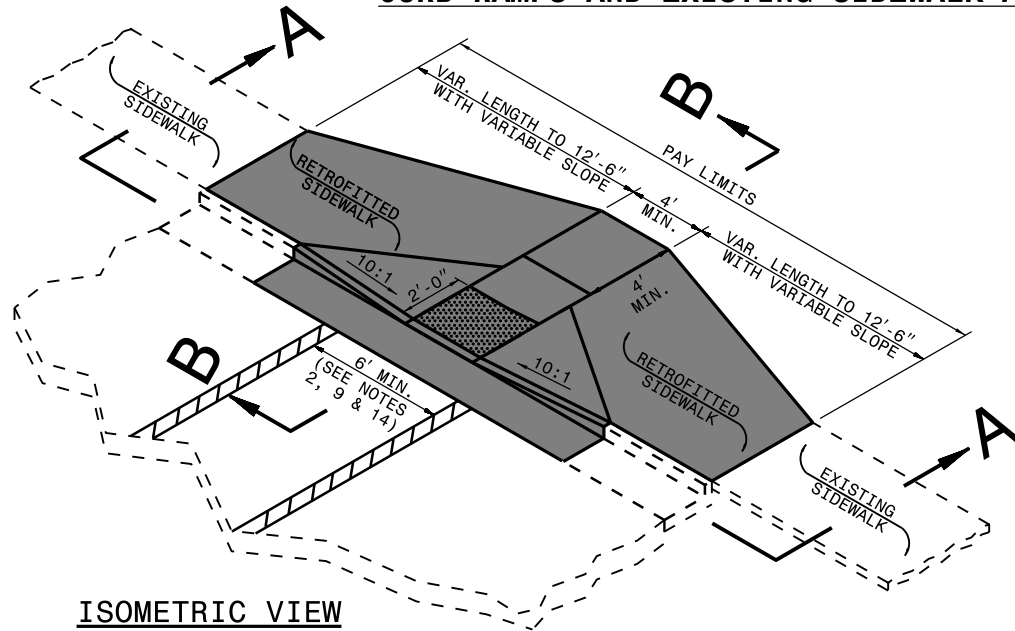
DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

1-18

ROADWAY STANDARD DRAWING FOR

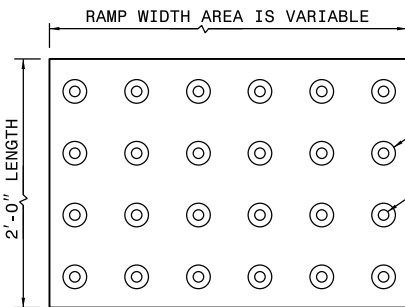
CURB RAMP
EXISTING CURB AND GUTTER

CURB RAMPS AND EXISTING SIDEWALK ADJACENT TO CURB



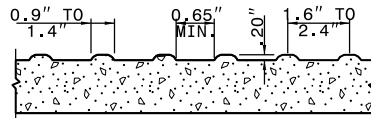
ISOMETRIC VIEW

PAY LIMITS OF CURB RAMP



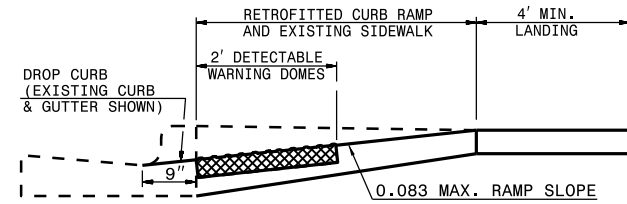
BASE DIAMETER
0.90"R TO 1.40"R

TOP DIAMETER OF NO LESS
THAN 50% TO NO MORE
THAN 65% OF THE BASE
DIAMETER

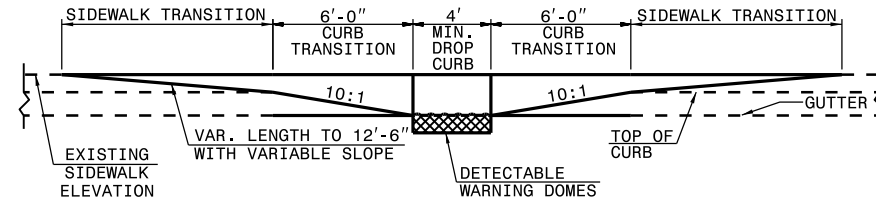


DETECTABLE WARNING DOMES

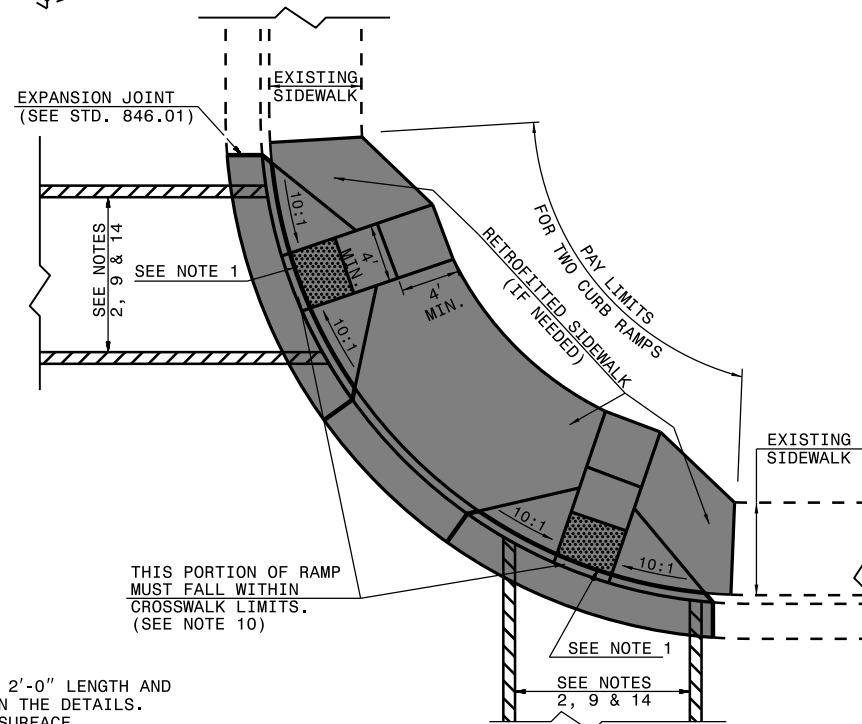
- NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



SECTION B-B



SECTION A-A



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

1-18

ROADWAY STANDARD DRAWING FOR

CURB RAMP

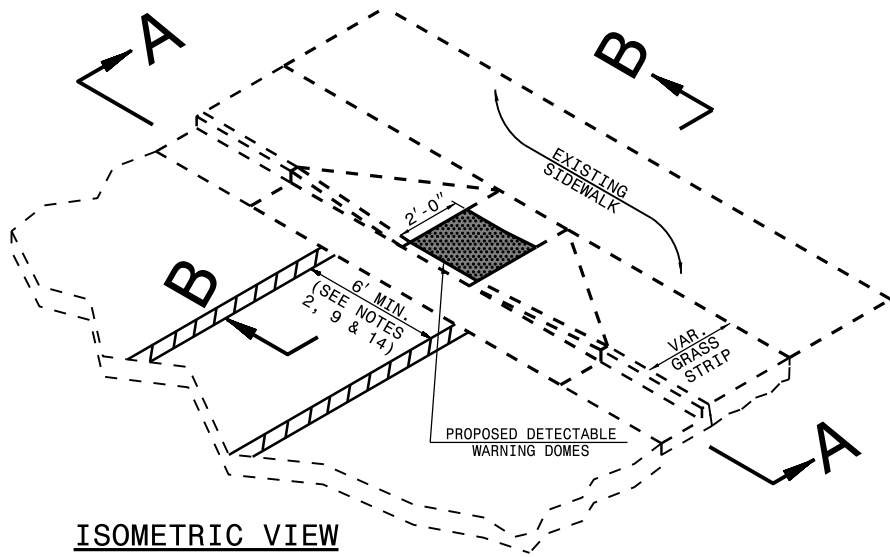
EXISTING CURB AND GUTTER

SHEET 2 OF 5

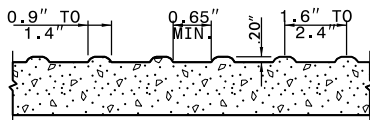
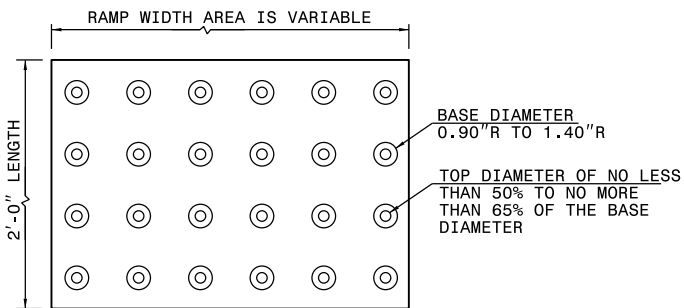
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RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING CURB RAMP

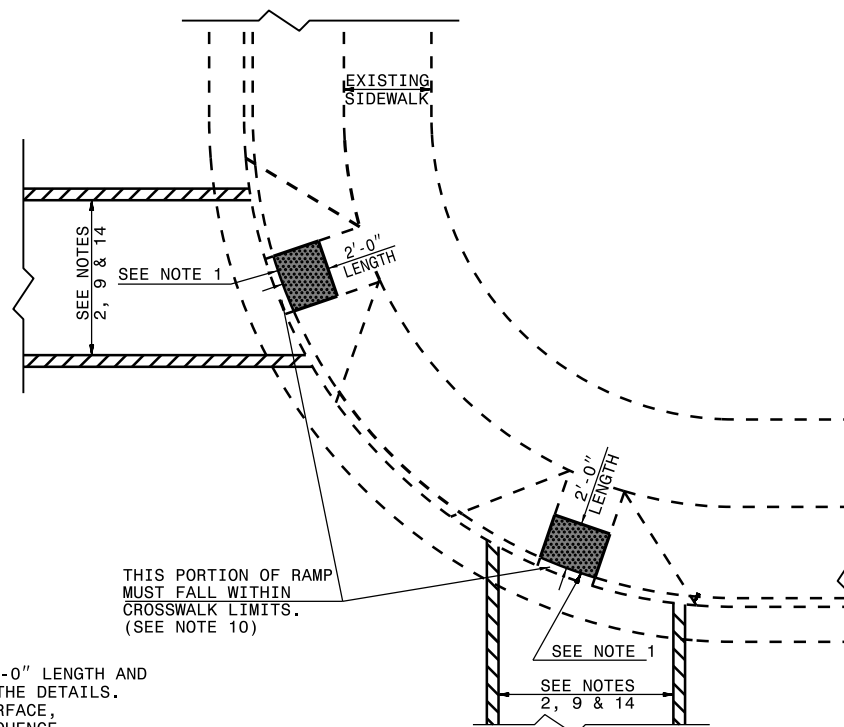
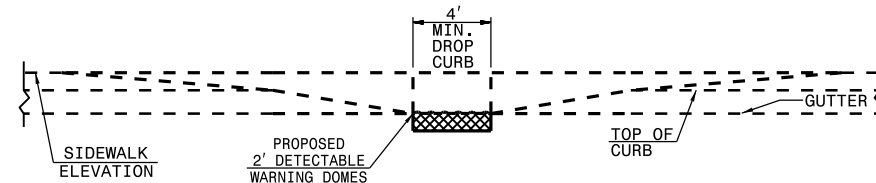
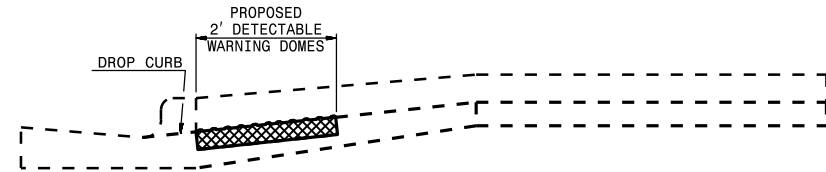


PAY LIMITS OF RETROFIT CURB RAMP



DETECTABLE WARNING DOMES

- NOTES:**
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

ROADWAY STANDARD DRAWING FOR

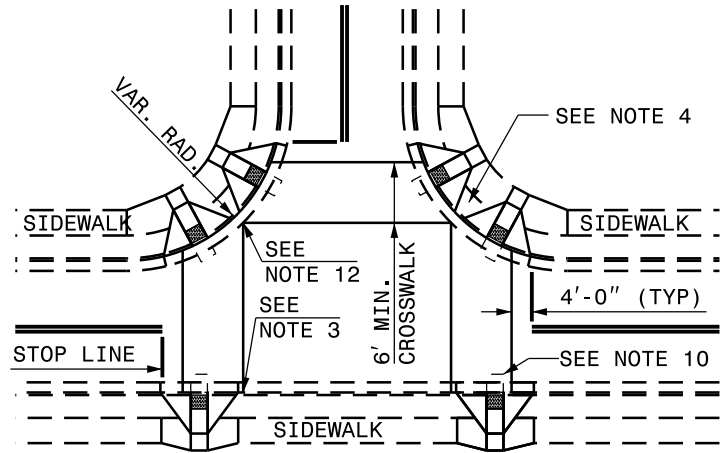
CURB RAMP

EXISTING CURB AND GUTTER

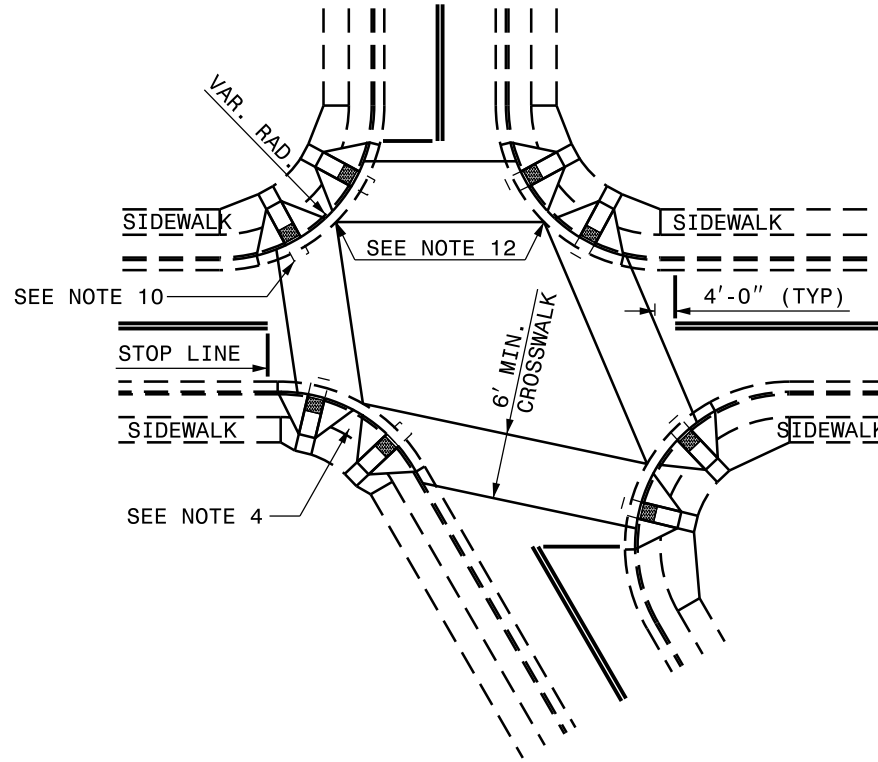
1-18

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DIVISION OF HIGHWAYS
RALEIGH, N.C.

CURB RAMPS AND EXISTING SIDEWALK

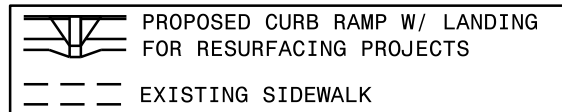


DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS



DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES

RESURFACING PROJECTS



ALLOWABLE LOCATIONS
 DUAL RAMP RADII.....ANY

CURB RAMP AND EXISTING SIDEWALK

NOTES:

1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.
3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
4. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.
5. REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
6. TERMINATE PARKING A MINIMUM OF 20' BACK OF A PEDESTRIAN CROSSWALK.
7. CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.
8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.
9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.
11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.
12. CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGH THE ISLAND.
14. SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'x5' LANDING AT THE TOP OF A RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.
15. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
16. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01
17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
18. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.

1-18

ROADWAY STANDARD DRAWING FOR

CURB RAMP

EXISTING CURB AND GUTTER

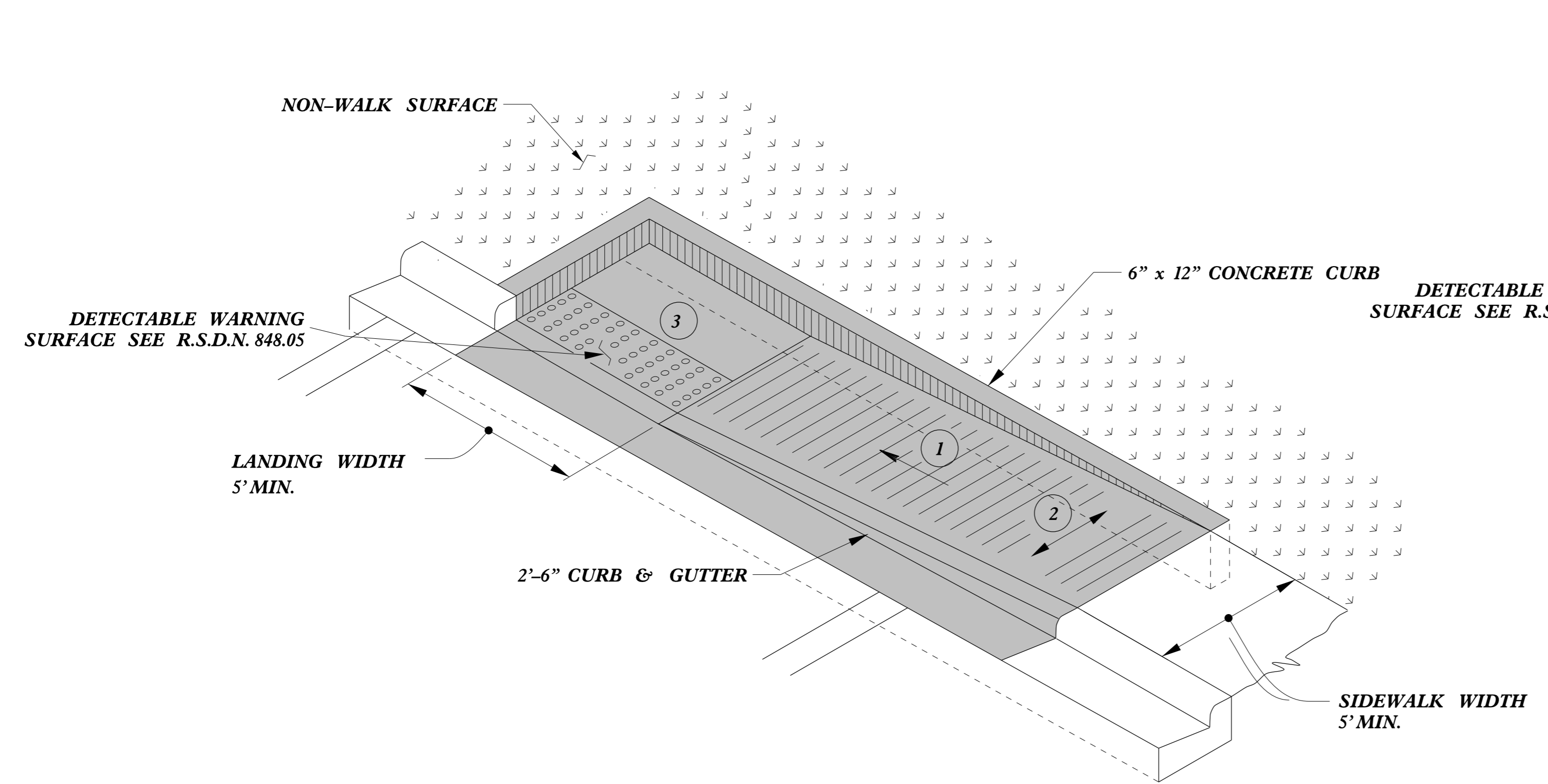
STATE OF

NORTH CAROLINA

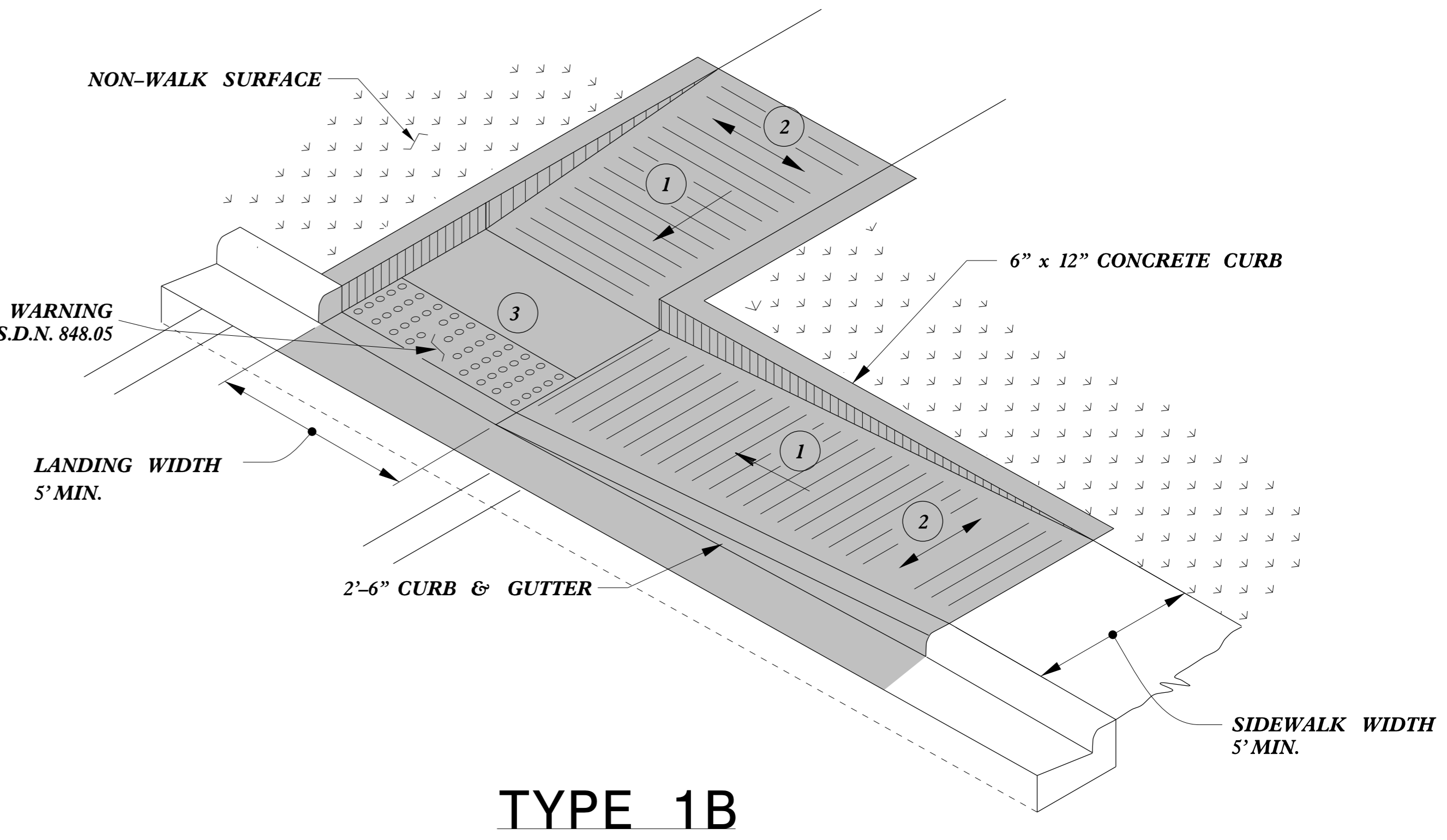
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

RALEIGH, N.C.

5/14/99



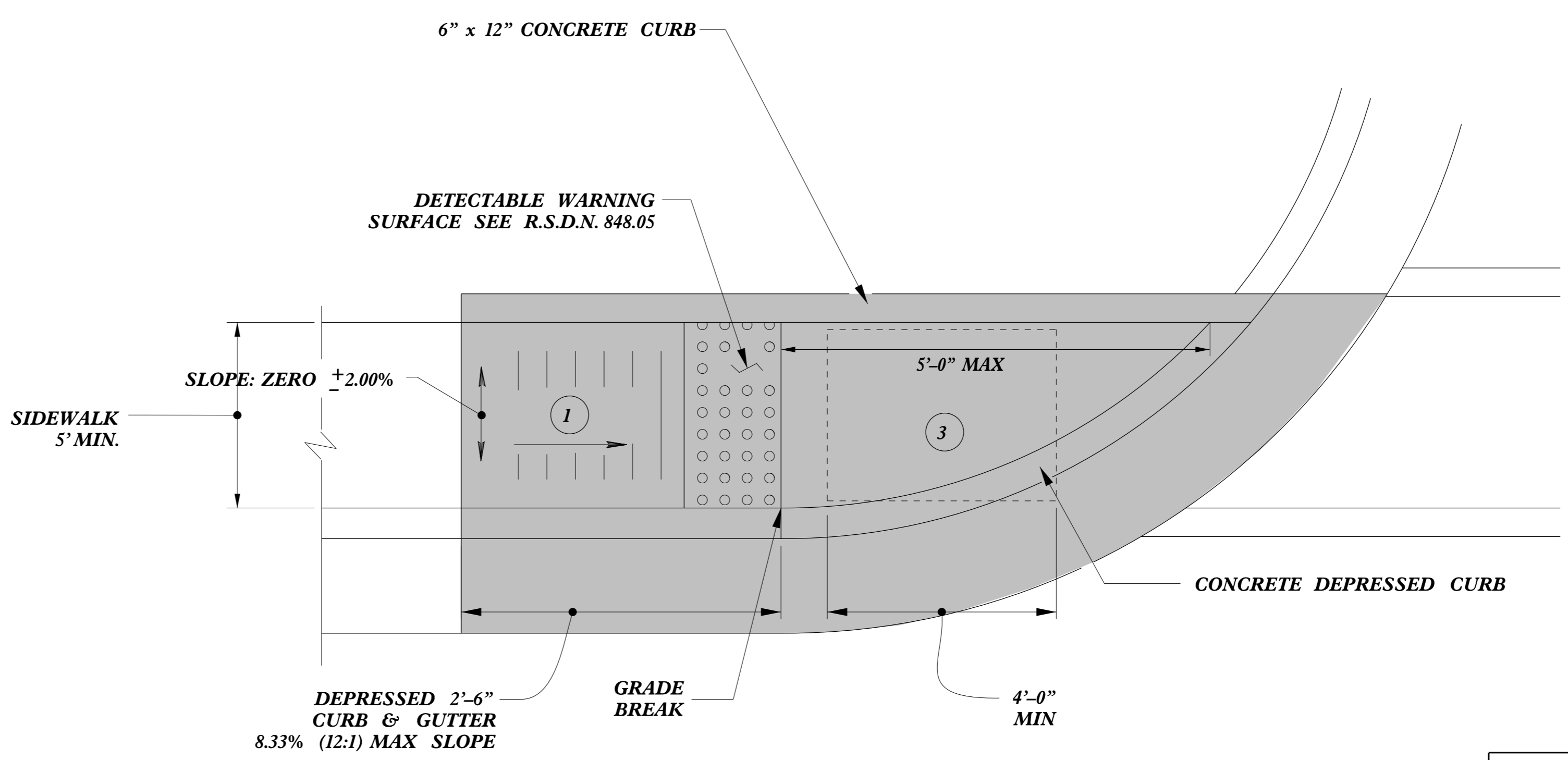
TYPE 1A



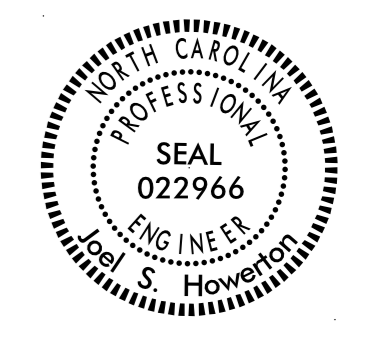
TYPE 1B

PAY LIMITS FOR 1 CURB RAMP

- 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.



TYPE 1

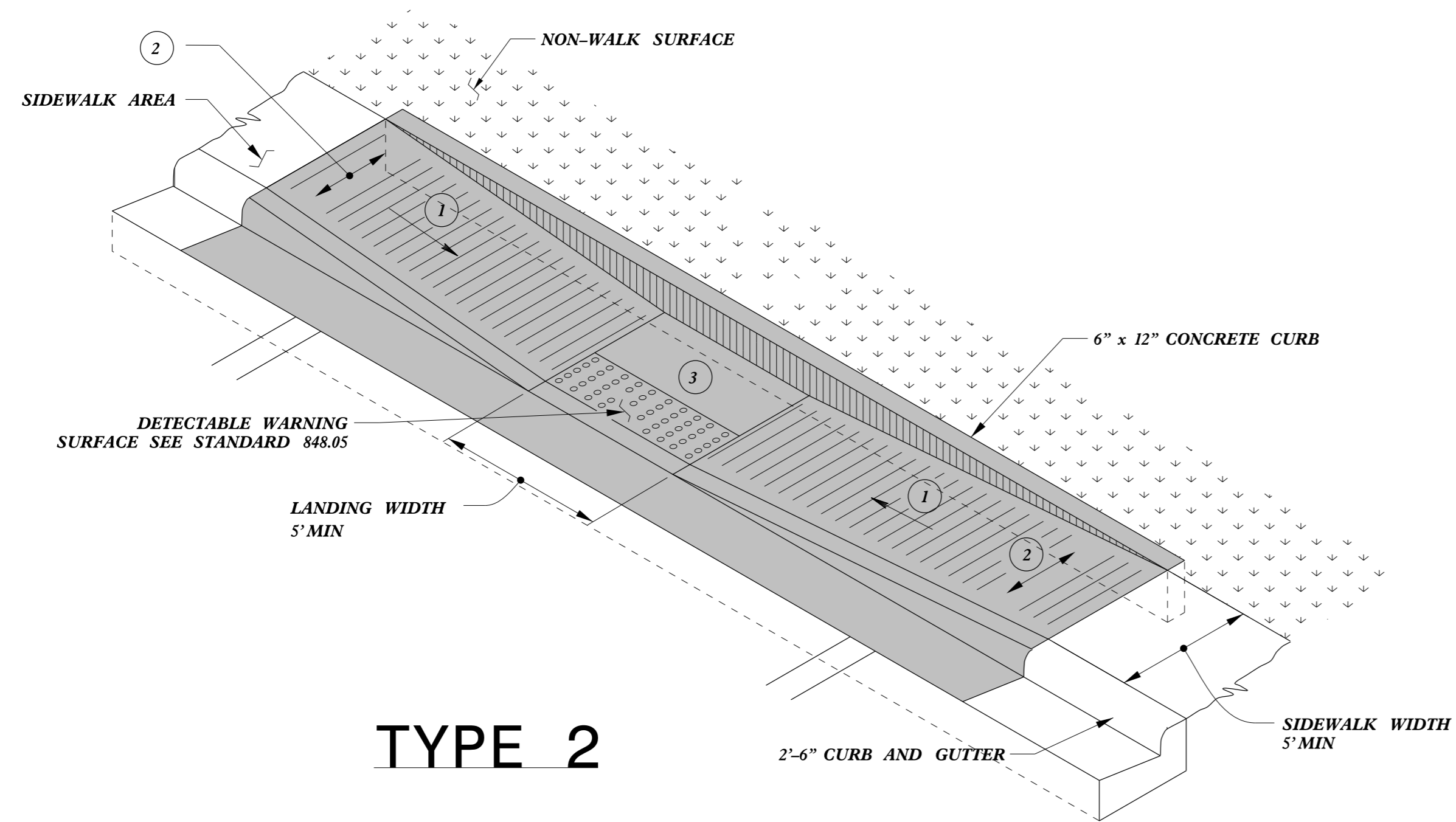


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

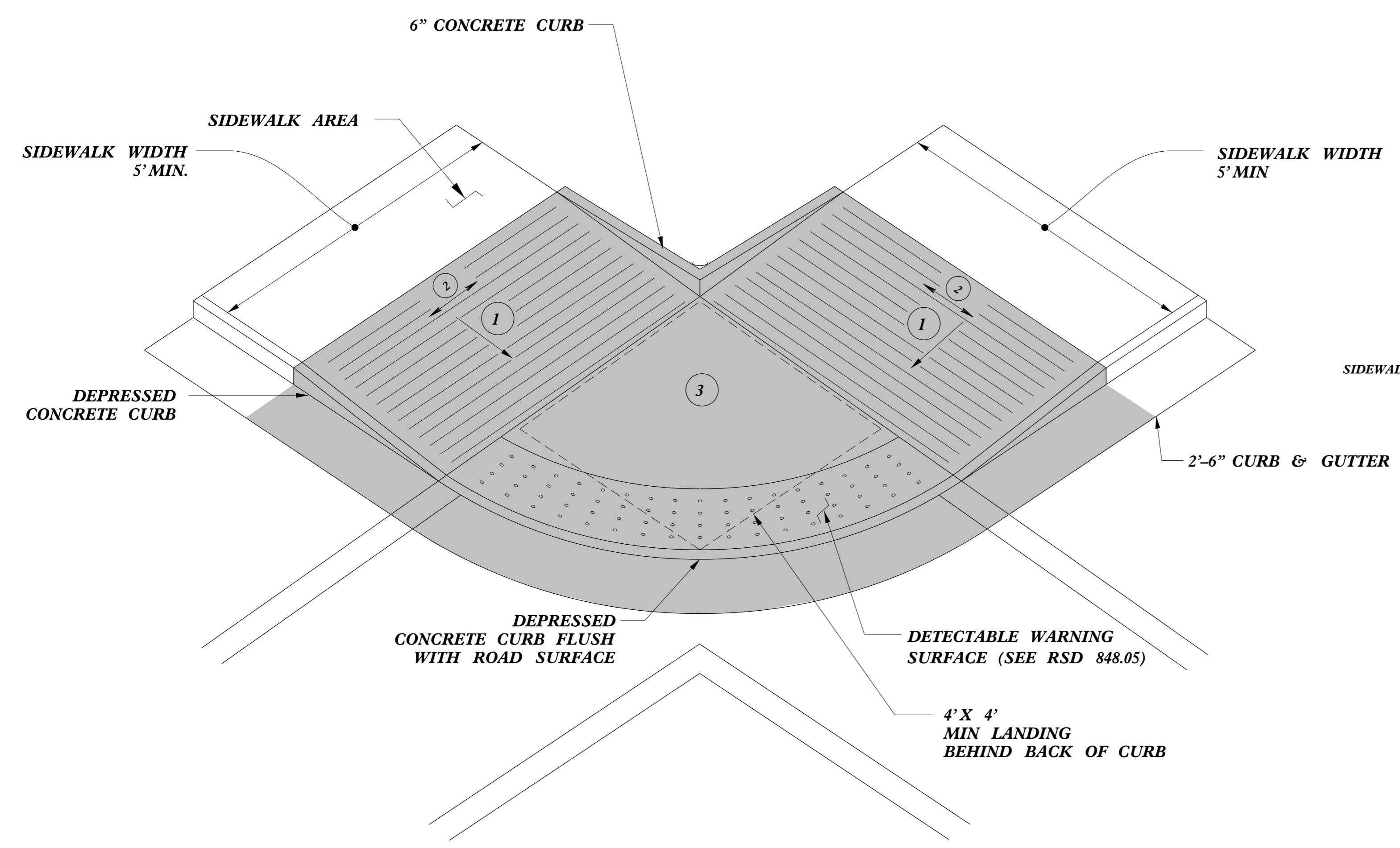
C:\P\2011\20110514\20110514.dwg
 USER: JSH
 DATE: 5/14/11 10:58 AM
 PLOT: 5/14/11 10:58 AM
 PLOTTER: HP DesignJet 2500



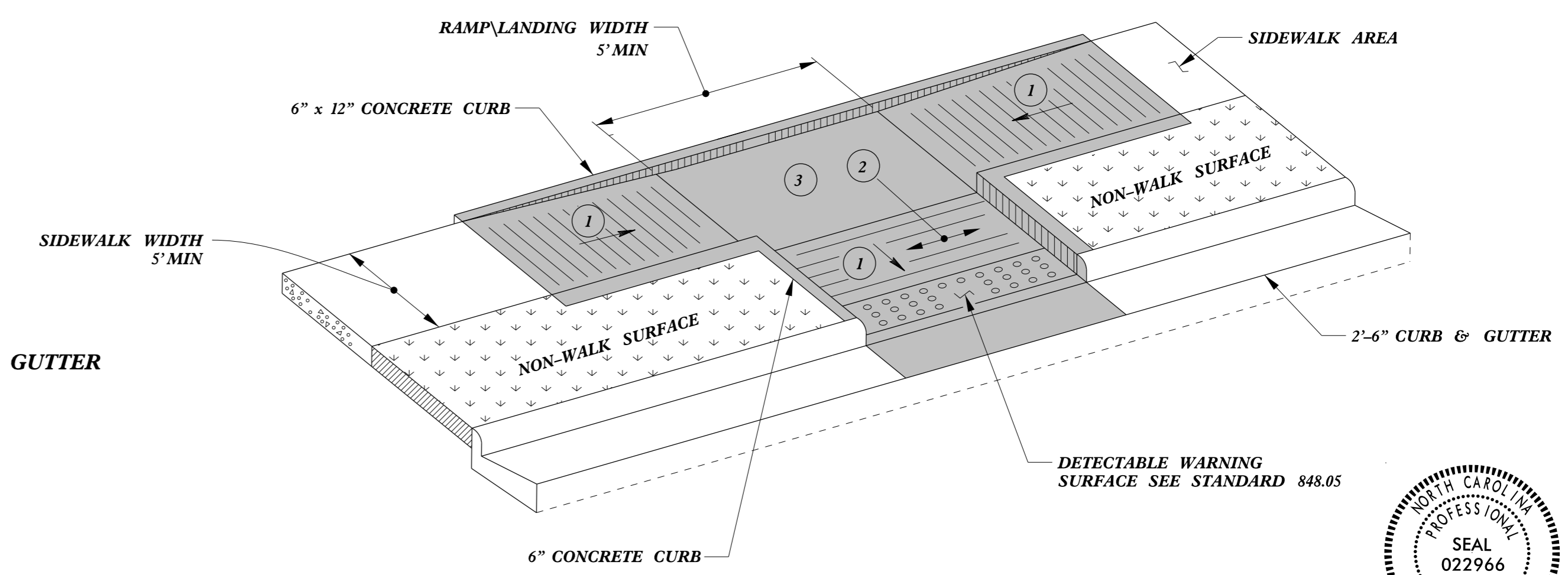
TYPE 2

PAY LIMITS FOR 1 CURB RAMP

- 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.



TYPE 2A



TYPE 3

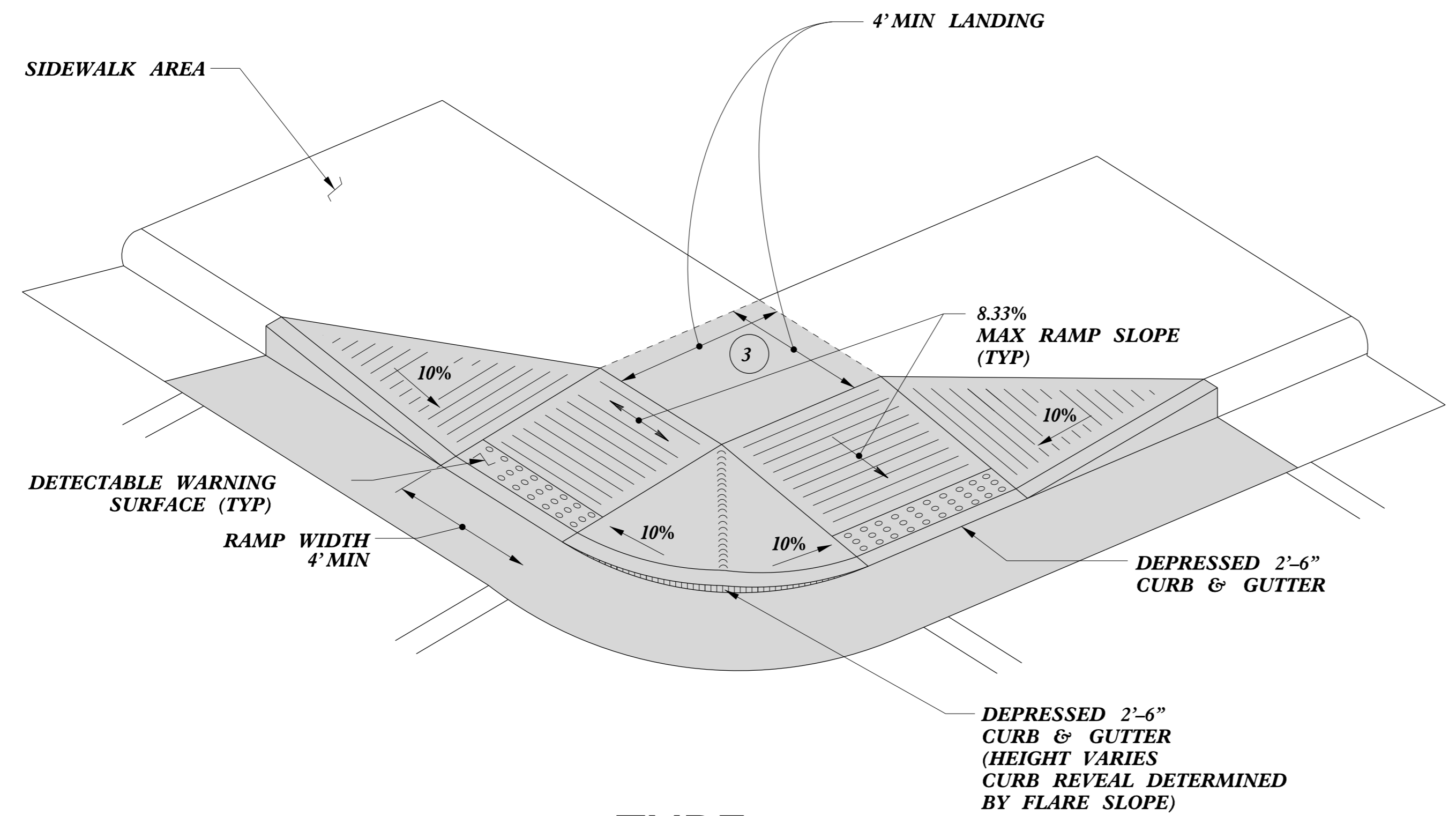


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

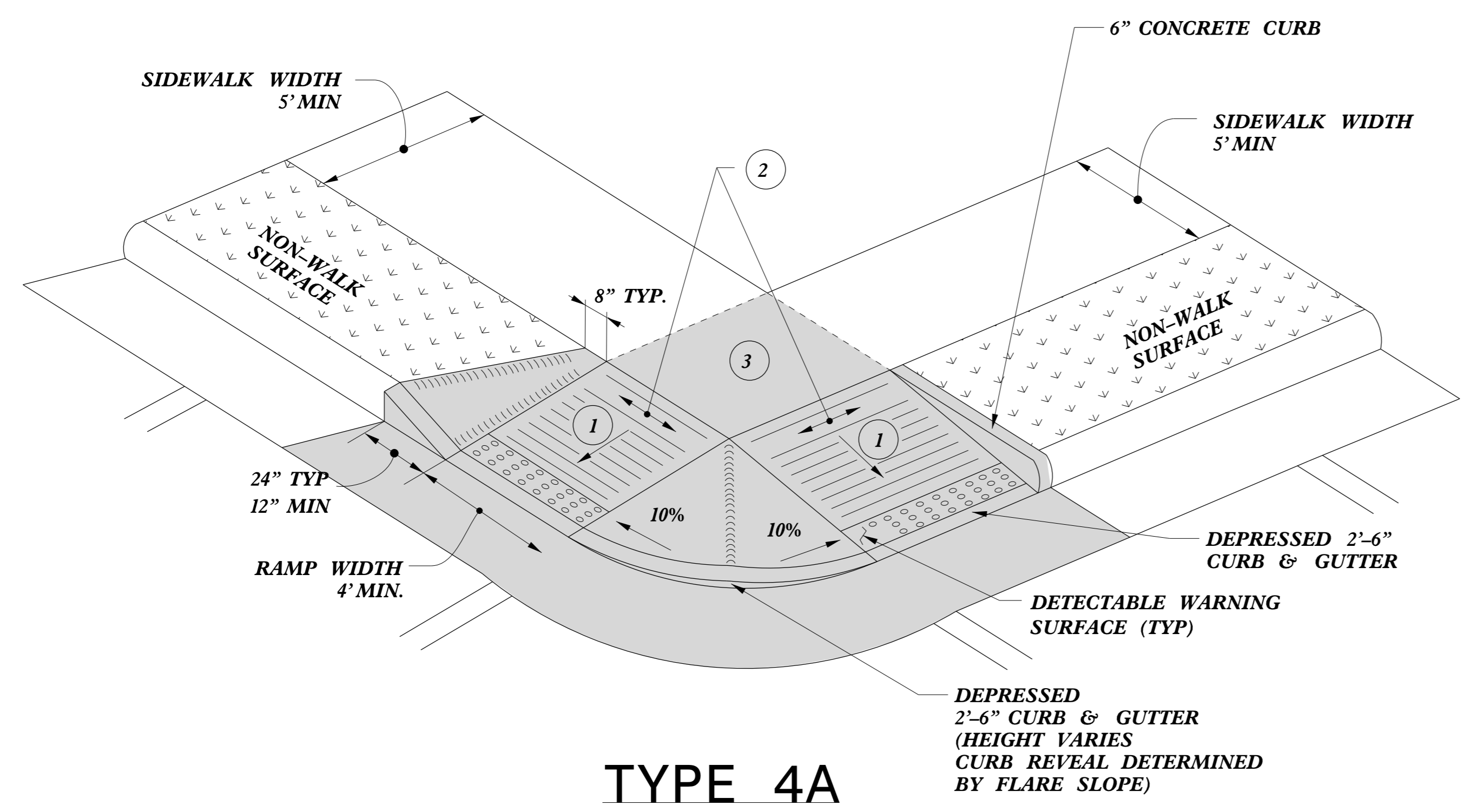
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Parallel Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC. :stds/2012CurbRamp/CurbRampDetails.dgn	

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

5/14/99
C:\ME\CS\CON\CON\USER\NAME

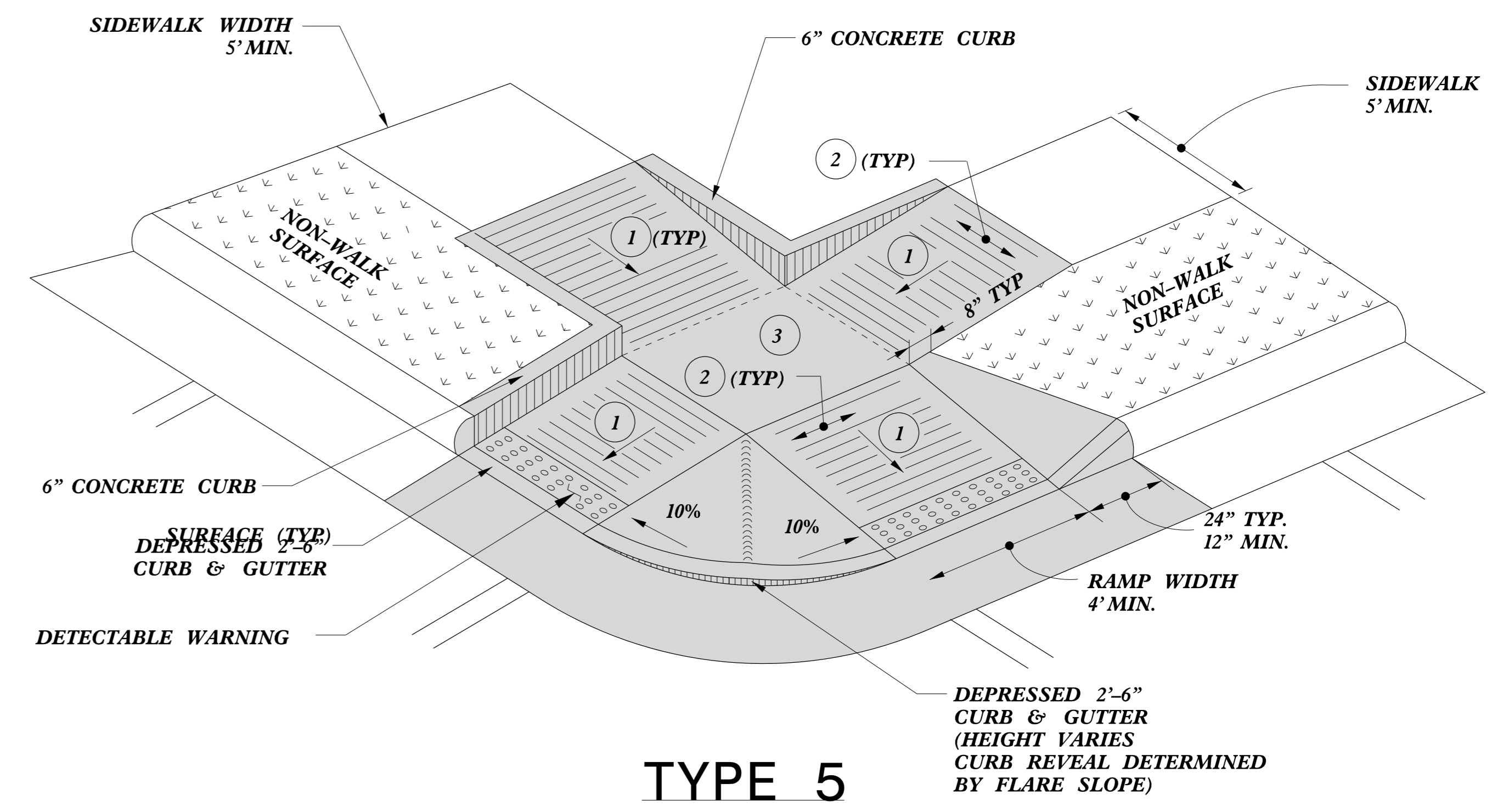


TYPE 4



TYPE 4A

PAY LIMITS FOR 2 CURB RAMPS



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.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Shared Landing	
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
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SUMMARY OF QUANTITIES - BLADEN

PROJECT	COUNTY	MUNICIPALITY	MAJOR ROUTE	MINOR ROUTE	0000100000-N Mobilization	1220000000-E Incidental Stone Base	2549000000-E 2'-6" Concrete Curb & Gutter	2591000000-E 4" Concrete Sidewalk (5' Wide)	2600000000-N Retrofit Existing Curb Ramp	2605000000-N Concrete Curb Ramp	2612000000-E 6" Concrete Driveway	2613000000-N Remove & Replace Curb Ramps	2800000000-N Adjustments of Catch Basins	2815000000-N Adjustments of Drop Inlets	2830000000-N Adjustment of Manholes	4457000000-N Temporary Traffic Control	4695000000-E Thermoplastic Pavement Marking Lines (8", 90 mils)	4891000000-E Thermoplastic Pavement Marking Lines (24", 90 mils)	NOTES
NO					LS	TON	LF	SY	EA	EA	SY	EA	EA	EA	EA	LS	LF	LF	
44916.3.16	Bladen	White Lake	SR 1515	White Lake Water Park	0.1	5			2							0.1			
44916.3.16	Bladen	White Lake	SR 1515	E Williams St				3				1							
44916.3.16	Bladen	White Lake	SR 1515	Town Hall St				3				1							
44916.3.16	Bladen	White Lake	SR 1515	Cox Drive St				3				1							
44916.3.16	Bladen	White Lake	SR 1515	Town Hall Driveway				6				2							
44916.3.16	Bladen	White Lake	SR 1515	Melwood Dr (E)			20	6				2							
44916.3.16	Bladen	White Lake	SR 1515	Melwood Dr (W)			20	6				2							
44916.3.16	Bladen	White Lake	SR 1515	Midblock Near Melwood			20	6				2							
SUBTOTAL					0.1	5	60	33	2	0	0	11	0	0	0	0.1	0	0	
44916.3.16	Bladen	Clarkton	US 701 Bus	Family Dollar		2			2										
44916.3.16	Bladen	Clarkton	US 701 Bus	Peach St				278		1									
SUBTOTAL					0.0	2	0	278	2	1	0	0	0	0	0	0.0	0	0	
R-5786HA - 44916.3.16 - POP. < 5K - BLADEN - TOTAL					0.1	7	60	311	4	1	0	11	0	0	0	0.1	0	0	

SUMMARY OF QUANTITIES - COLUMBUS

PROJECT	COUNTY	MUNICIPALITY	MAJOR ROUTE	MINOR ROUTE	0000100000-N Mobilization	1220000000-E Incidental Stone Base	2549000000-E 2'-6" Concrete Curb & Gutter	2591000000-E 4" Concrete Sidewalk (5' Wide)	2600000000-N Retrofit Existing Curb Ramp	2605000000-N Concrete Curb Ramp	2612000000-E 6" Concrete Driveway	2613000000-N Remove & Replace Curb Ramps	2800000000-N Adjustments of Catch Basins	2815000000-N Adjustments of Drop Inlets	2830000000-N Adjustment of Manholes	4457000000-N Temporary Traffic Control	4695000000-E Thermoplastic Pavement Marking Lines (8", 90 mils)	4891000000-E Thermoplastic Pavement Marking Lines (24", 90 mils)	NOTES
NO					LS	TON	LF	SY	EA	EA	SY	EA	EA	EA	EA	LS	LF	LF	
44916.3.16	Columbus	Fair Bluff	NC 904	Railroad Street	0.1	5		19								0.1			
44916.3.16	Columbus	Fair Bluff	US 76	NC 904 (W)				56											
44916.3.16	Columbus	Fair Bluff	US 76	Orange Street				133		1									
SUBTOTAL					0.1	5	0	208	0	1	0	0	0	0	0	0.1	0	0	
44916.3.16	Columbus	Chadbourm	US 74 Bus	Elm St		5			1										
44916.3.16	Columbus	Chadbourm	NC 410	Hardees								1							
44916.3.16	Columbus	Chadbourm	NC 410	Food Lion N			25	12				2							
44916.3.16	Columbus	Chadbourm	NC 410	Food Lion S			25	12				2							
44916.3.16	Columbus	Chadbourm	NC 410	Chadbourm Dental N								2							
44916.3.16	Columbus	Chadbourm	NC 410	Chadbourm Dental S								2							
44916.3.16	Columbus	Chadbourm	NC 410	Farm Bureau N								2							
44916.3.16	Columbus	Chadbourm	NC 410	Farm Bureau S								2							
44916.3.16	Columbus	Chadbourm	NC 410	W. Sixth St								2							
44916.3.16	Columbus	Chadbourm	NC 410	Logan Mart								2							
44916.3.16	Columbus	Chadbourm	NC 410	Bank								1							
SUBTOTAL					0.0	5	50	24	1	0	0	18	0	0	0	0.0	0	0	
R-5786HA - 44916.3.16 - POP. < 5K - COLUMBUS - TOTAL					0.1	10	50	232	1	1	0	18	0	0	0	0.1	0	0	
44916.3.17	Columbus	Whiteville	US 701 Bus	Harbor Freight	0.1	5		9				3				0.1			
44916.3.17	Columbus	Whiteville	US 701 Bus	Whiteville United Methodist				9		20		1							
44916.3.17	Columbus	Whiteville	SR 1429	Columbus Corners			30	9				3							
44916.3.17	Columbus	Whiteville	SR 1953	E. Walter St					1			3							
R-5786HB - 44916.3.17 - POP. > 5K, BUT < 200K - COLUMBUS - TOTAL					0.1	5	30	27	1	20	0	10	0	0	0	0.1	0	0	
GRAND TOTAL - COLUMBUS					0.2	15	80	259	2	21	0	28	0	0	0	0.2	0	0	

SUMMARY OF QUANTITIES - CUMBERLAND

PROJECT NO	COUNTY	MUNICIPALITY	MAJOR ROUTE	MINOR ROUTE	0000100000-N	1220000000-E	2549000000-E	2591000000-E	2600000000-N	2605000000-N	2612000000-E	2613000000-N	2800000000-N	2815000000-N	2830000000-N	4457000000-N	4695000000-E	4891000000-E	NOTES		
					Mobilization	Incidental Stone Base	2'-6" Concrete Curb & Gutter	4" Concrete Sidewalk (5' Wide)	Retrofit Existing Curb Ramp	Concrete Curb Ramp	6" Concrete Driveway	Remove & Replace Curb Ramps	Adjustments of Catch Basins	Adjustments of Drop Inlets	Adjustment of Manholes	Temporary Traffic Control	Thermoplastic Pavement Marking Lines (8", 90 mils)	Thermoplastic Pavement Marking Lines (24", 90 mils)			
					LS	TON	LF	SY	EA	EA	SY	EA	EA	EA	EA	EA	LS	LF	LF		
44916.3.16	Cumberland	Stedman	SR 1971 (Clinton Rd)	Circle Dr	0.1	2			1								0.1				
44916.3.16	Cumberland	Stedman	SR 1971 (Clinton Rd)	First Citizen Bank DW									4								
44916.3.16	Cumberland	Stedman	SR 1971 (Clinton Rd)	Sunshine Square DW									2								
R-5786HA - 44916.3.16 - POP. < 5K - CUMBERLAND - TOTAL					0.1	2	0	0	1	0	0	6	0	0	0	0.1	0	0			
44916.3.18	Cumberland	Spring Lake	SR 1449 (N Main St)	Bragg Mutual C. Union DW	0.1	5	50					2					0.1				
44916.3.18	Cumberland	Spring Lake	SR 1449 (N Main St)	Elizabeth St								1									
44916.3.18	Cumberland	Spring Lake	SR 1449 (N Main St)	Kaye St								1									
44916.3.18	Cumberland	Spring Lake	SR 1449 (N Main St)	Mid-block at Crosswalk						2								150			
44916.3.18	Cumberland	Spring Lake	SR 1449 (N Main St)	Ruth St								1									
44916.3.18	Cumberland	Spring Lake	SR 1449 (N Main St)	Scarborough St				6		1		1									
44916.3.18	Cumberland	Spring Lake	SR 1449 (N Main St)	Spring Ave						1		1									
44916.3.18	Cumberland	Spring Lake	NC 210	Holland Dr				105		2											
44916.3.18	Cumberland	Spring Lake	NC 210	Holland Shpng. Center DW				290		2											
44916.3.18	Cumberland	Spring Lake	NC 210	Parker Pawn DW				70		6											
44916.3.18	Cumberland	Spring Lake	NC 210	US Taekwondo Center DW						1											
SUBTOTAL					0.1	5	50	471	0	15	0	7	0	0	0	0	0.1	150	0		
44916.3.18	Cumberland	Hope Mills	NC 162	Secur Care Storage DW		10		25	1	1											
44916.3.18	Cumberland	Hope Mills	NC 59	Camden Crossing DW						1		1									
44916.3.18	Cumberland	Hope Mills	NC 59	Zorba's DW				12		2											
44916.3.18	Cumberland	Hope Mills	SR 2252 (Chicken Foot Rd)	SR 3947 (Celebration Dr)								2									
44916.3.18	Cumberland	Hope Mills	SR 3947 (Celebration Dr)	Driveway Turnout								2									
44916.3.18	Cumberland	Hope Mills	SR 3947 (Celebration Dr)	Driveway Turnout								2									
44916.3.18	Cumberland	Hope Mills	SR 3955 (Walking Trail Way)	SR 2252 (Chickenfoot Rd)				30		1								145			
44916.3.18	Cumberland	Hope Mills	SR 3955 (Walking Trail Way)	SR 3956 (Thistle Gold Dr)								4									
44916.3.18	Cumberland	Hope Mills	SR 3955 (Walking Trail Way)	SR 3957 (Kenan Dr)								2									
44916.3.18	Cumberland	Hope Mills	SR 3955 (Walking Trail Way)	SR 3958 (Greenhouse Dr)								2									
44916.3.18	Cumberland	Hope Mills	SR 3955 (Walking Trail Way)	SR 3959 (Canter Ln)								2									
44916.3.18	Cumberland	Hope Mills	SR 3955 (Walking Trail Way)	SR 3960 (Thistle Gold Dr)								4									
44916.3.18	Cumberland	Hope Mills	SR 3957 (Kenan Dr)	SR 3958 (Greenhouse Dr)								2									
44916.3.18	Cumberland	Hope Mills	SR 3957 (Kenan Dr)	SR 3959 (Canter Ln)								2									
44916.3.18	Cumberland	Hope Mills	SR 3957 (Kenan Dr)	SR 3960 (Thistle Gold Dr)								2									
44916.3.18	Cumberland	Hope Mills	SR 3960 (Thistle Gold Dr)	SR 3989 (Lillytrotter Dr)								4									
44916.3.18	Cumberland	Hope Mills	SR 3960 (Thistle Gold Dr)	SR 3990 (Blue SkyLn)								4									
44916.3.18	Cumberland	Hope Mills	SR 3960 (Thistle Gold Dr)	SR 4501 (Lady Way)								2									
44916.3.18	Cumberland	Hope Mills	SR 3996 (Derby Ln)	Stonefield St								2									
44916.3.18	Cumberland	Hope Mills	SR 3999 (Running Horse Ln)	SR 2242 (Braxton Rd)								2									
44916.3.18	Cumberland	Hope Mills	SR 3999 (Running Horse Ln)	SR 4500 (Gentleman Dr)								4									
44916.3.18	Cumberland	Hope Mills	SR 3999 (Running Horse Ln)	SR 4501 (Lady Way)								2									
44916.3.18	Cumberland	Hope Mills	SR 4550 (Rossendale Dr)	SR 4543 (Prestonfield Ln)								1									
44916.3.18	Cumberland	Hope Mills	SR 4550 (Rossendale Dr)	SR 4551 (Kirkstall Dr)								1									
44916.3.18	Cumberland	Hope Mills	SR 4550 (Rossendale Dr)	Wishaw Ct								2									
44916.3.18	Cumberland	Hope Mills	SR 4551 (Kirkstall Dr)	SR 3996 (Derby Ln)								2									
44916.3.18	Cumberland	Hope Mills	SR 4551 (Kirkstall Dr)	SR 4552 (Otley Ct)								1									
44916.3.18	Cumberland	Hope Mills	SR 4551 (Kirkstall Dr)	SR 4553 (Nottingley Dr)								1									
44916.3.18	Cumberland	Hope Mills	SR 4552 (Otley Ct)	End of Sidewalk								1									
44916.3.18	Cumberland	Hope Mills	SR 4553 (Nottingley Dr)	Stonefield St								1									
SUBTOTAL						10	0	67	1	5	0	57	0	0	0	0	145	0			
44916.3.18	Cumberland	Fayetteville	NC 24/87 (Bragg Blvd)	Greenland Dr		10	50				25	2	3	3	3		25	25			
44916.3.18	Cumberland	Fayetteville	NC 24/87 (Bragg Blvd)	Hobson St						2											
44916.3.18	Cumberland	Fayetteville	NC 24/87 (Bragg Blvd)	Thrift Shop S of Blue Street						1											
44916.3.18	Cumberland	Fayetteville	NC 59	Cumb. Mills Elementary DW				50													
44916.3.18	Cumberland	Fayetteville	NC 59	SR 1134 (Sim Cotton St)				30		1		1					140				
44916.3.18	Cumberland	Fayetteville	NC 59	Weiner Works DW								1									
44916.3.18	Cumberland	Fayetteville	SR 1400 (Cliffdale Rd)	SR 1403 (Reilly Rd)				23	2												
44916.3.18	Cumberland	Fayetteville	SR 2311 (Gillespie St)	Chase St						2											
44916.3.18	Cumberland	Fayetteville	SR 4119 (Kamenbury Dr)	Mid-block						1											
44916.3.18	Cumberland	Fayetteville	SR 4119 (Kamenbury Dr)	SR 4120 (Artemis Dr)								2									
44916.3.18	Cumberland	Fayetteville	SR 4120 (Artemis Dr)	SR 4121 (Connection Dr)						1		3									
44916.3.18	Cumberland	Fayetteville	SR 4121 (Connection Dr)	Mid-block						1											
44916.3.18	Cumberland	Fayetteville	SR 4121 (Connection Dr)	SR 4122 (Reflex St)						2		1									
44916.3.18	Cumberland	Fayetteville	SR 4122 (Reflex St)	Cul-de-sac						2											
SUBTOTAL						10	50	103	2	13	25	10	3	3	3	0.1	165	25			
R-5786HC - 44916.3.18 - POP. > 200K - CUMBERLAND - TOTAL					0.1	25	100	641	3	33	25	74	3	3	3	0.1	460	25			
GRAND TOTAL - CUMBERLAND					0.2	27	100	641	4	33	25	80	3	3	3	0.2	460	25			

SUMMARY OF QUANTITIES - HARNETT

PROJECT NO	COUNTY	MUNICIPALITY	MAJOR ROUTE	MINOR ROUTE	0000100000-N	1220000000-E	2549000000-E	2591000000-E	2600000000-N	2605000000-N	2612000000-E	2613000000-N	2800000000-N	2815000000-N	2830000000-N	4457000000-N	4695000000-E	4891000000-E	NOTES	
					Mobilization LS	Incidental Stone Base TON	2'-6" Concrete Curb & Gutter LF	4" Concrete Sidewalk (5' Wide) SY	Retrofit Existing Curb Ramp EA	Concrete Curb Ramp EA	6" Concrete Driveway SY	Remove & Replace Curb Ramps EA	Adjustments of Catch Basins EA	Adjustments of Drop Inlets EA	Adjustment of Manholes EA	Temporary Traffic Control LS	Thermoplastic Pavement Marking Lines (8", 90 mils) LF	Thermoplastic Pavement Marking Lines (24", 90 mils) LF		
44916.3.16	Harnett	Lillington	NC 210	Circle K DW	0.1	5						1							0.1	
44916.3.16	Harnett	Lillington	NC 210	McDonalds DW								1								
44916.3.16	Harnett	Lillington	NC 24 / NC 87	H M Cagle Dr								4								
44916.3.16	Harnett	Lillington	NC 24 / NC 87	Linden Oaks Pkwy								2								
44916.3.16	Harnett	Lillington	SR 2288 (Brightwater Dr)	Brightwater Hospital								1								
44916.3.16	Harnett	Lillington	US 401	John Hiester Chevrolet DW								1								
44916.3.16	Harnett	Lillington	US 401	Bain St								2								
44916.3.16	Harnett	Lillington	US 401 / NC 210 / NC 27	10th St								2								
44916.3.16	Harnett	Lillington	US 401 / NC 210 / NC 27	County Treatment Plant Rd								2								
44916.3.16	Harnett	Lillington	US 401 / NC 210 / NC 27	Crossroads Church DW					2											
44916.3.16	Harnett	Lillington	US 401 / NC 210 / NC 27	Dr. Lane Dentist Office DW								2								
44916.3.16	Harnett	Lillington	US 401 / NC 210 / NC 27	E Harnett St								1								
44916.3.16	Harnett	Lillington	US 401 / NC 210 / NC 27	Quick Lane Tire & Auto DW								2								
44916.3.16	Harnett	Lillington	US 401 / NC 210 / NC 27	RR Track								2								
R-5786HA - 44916.3.16 - POP. < 5K - HARNETT - TOTAL					0.1	5	0	0	0	2	0	23	0	0	0	0.1	0	0		
44916.3.17	Harnett	Buies Creek	SR 1522 (Burt St)	Campbell School of Pharmacy DW	0.1	10		15		3									0.1	
44916.3.17	Harnett	Buies Creek	SR 1522 (Burt St)	SR 1523 (Pope St)					3											
44916.3.17	Harnett	Buies Creek	SR 1524 (Judge Taylor Rd)	Health Services Bldg								2								
44916.3.17	Harnett	Buies Creek	SR 1525 (TT Lanier St)	Bernard McLeod Admissions Center								3								
44916.3.17	Harnett	Buies Creek	SR 1525 (TT Lanier St)	Health Services Bldg								1								
44916.3.17	Harnett	Buies Creek	SR 1525 (TT Lanier St)	Parking JJ								2								
44916.3.17	Harnett	Buies Creek	SR 1525 (TT Lanier St)	SR 1524 (Judge Taylor Rd)								2								
44916.3.17	Harnett	Buies Creek	SR 1531 (Upchurch Ln)	Heads Up Salon Parking					1											
44916.3.17	Harnett	Buies Creek	SR 1532 (Main St)	Church DW								1								
44916.3.17	Harnett	Buies Creek	SR 1532 (Main St)	Convocation Center DW								2								
44916.3.17	Harnett	Buies Creek	SR 1532 (Main St)	SR 1522 (Burt St)								1								
44916.3.17	Harnett	Buies Creek	SR 1571 (Caudell Ln)	SR 1522 (Burt St)								5								
44916.3.17	Harnett	Buies Creek	SR 1572 (Dr. McKoy Rd)	Eakes Dr								2								
44916.3.17	Harnett	Buies Creek	SR 2000 (Wade Stewart Cir)	Don Phelps Cir					1											
44916.3.17	Harnett	Buies Creek	SR 2000 (Wade Stewart Cir)	Ticket Booth					1											
44916.3.17	Harnett	Buies Creek	SR 2062 (Harmon Rd)	Campbell Univ. Parking M								2								
44916.3.17	Harnett	Buies Creek	SR 2062 (Harmon Rd)	Campbell Univ. Parking U								2								
44916.3.17	Harnett	Buies Creek	SR 2062 (Harmon Rd)	SR 2068 (Pine Cone Rd)								2								
44916.3.17	Harnett	Buies Creek	SR 2084 (Leslie Campbell Ave)	Bostic Dr								1								
44916.3.17	Harnett	Buies Creek	SR 2084 (Leslie Campbell Ave)	Campbell University								2								
44916.3.17	Harnett	Buies Creek	SR 2084 (Leslie Campbell Ave)	Short Stop Gas Station DW								2								
44916.3.17	Harnett	Buies Creek	SR 2084 (Leslie Campbell Ave)	SR 2054 (Marshbanks St)								2								
SUBTOTAL					0.1	10	0	15	6	3	0	34	0	0	0	0.1	0	0		
44916.3.17	Harnett	Coats	NC 55	E Erwin St		2						1								
44916.3.17	Harnett	Coats	NC 55	SR 2005 (W Hamer St)								1								
44916.3.17	Harnett	Coats	NC 55	Sunoco DW								2								
SUBTOTAL					0.0	2	0	0	0	0	0	4	0	0	0	0.0	0	0		
44916.3.17	Harnett	Erwin	Denim Dr	South 13 St		2				3										
44916.3.17	Harnett	Erwin	NC 217 / NC 82	Erwin Plant, LLC								2								
44916.3.17	Harnett	Erwin	North 13 St	East H St						1										
SUBTOTAL					0.0	2	0	0	0	4	0	2	0	0	0	0.0	0	0		

PROJECT	COUNTY	MUNICIPALITY	MAJOR ROUTE	MINOR ROUTE	0000100000-N Mobilization	122000000-E Incidental Stone Base	254900000-E 2'-6" Concrete Curb & Gutter	259100000-E 4" Concrete Sidewalk (5' Wide)	260000000-N Retrofit Existing Curb Ramp	260500000-N Concrete Curb Ramp	261200000-E 6" Concrete Driveway	261300000-N Remove & Replace Curb Ramps	280000000-N Adjustments of Catch Basins	281500000-N Adjustments of Drop Inlets	283000000-N Adjustment of Manholes	445700000-N Temporary Traffic Control	469500000-E Thermoplastic Pavement Marking Lines (8", 90 mils)	489100000-E Thermoplastic Pavement Marking Lines (24", 90 mils)	NOTES
44916.3.17	Harnett	Dunn	US 301 (N Clinton Ave)	E Bay St		10	50	105		2	25		3	3	3		25	25	
44916.3.17	Harnett	Dunn	US 301 (N Clinton Ave)	E Carr St								1							
44916.3.17	Harnett	Dunn	US 301 (N Clinton Ave)	E Cleveland St								2							
44916.3.17	Harnett	Dunn	US 301 (N Clinton Ave)	E Harnett St								1							
44916.3.17	Harnett	Dunn	US 301 (N Clinton Ave)	E Johnson St								1							
44916.3.17	Harnett	Dunn	US 301 (N Clinton Ave)	E Surlis St								2							
44916.3.17	Harnett	Dunn	US 301 (N Clinton Ave)	E Vance St								2							
44916.3.17	Harnett	Dunn	US 301 (N Clinton Ave)	S Cole St								2							
44916.3.17	Harnett	Dunn	US 301 (N Ellis Ave)	W Barrington St						1		2							
44916.3.17	Harnett	Dunn	US 301 (N Ellis Ave)	W Granville St						4									
44916.3.17	Harnett	Dunn	US 301 (S Clinton Ave)	E Divine St								4							
44916.3.17	Harnett	Dunn	US 301 (S Clinton Ave)	E Duke St								2							
44916.3.17	Harnett	Dunn	US 301 (S Clinton Ave)	E Godwin St				90	2										
44916.3.17	Harnett	Dunn	US 301 (S Clinton Ave)	E Pearsall St				180		1		3							
44916.3.17	Harnett	Dunn	US 301 (N Clinton Ave)	US 301 (E Granville St)				305		1		1						110	
44916.3.17	Harnett	Dunn	US 421 (E Cumberland St)	S Wilmington Ave								1							
44916.3.17	Harnett	Dunn	US 421 (W Cumberland St)	General C Lee Ave								1							
44916.3.17	Harnett	Dunn	US 421 (W Cumberland St)	Sunny Ave								1							
44916.3.17	Harnett	Dunn	SR 1785 (S Elm Ave)	E Best St				150		2									
SUBTOTAL					0.0	10	50	830	2	11	25	26	3	3	3	0.0	25	135	
R-5786HB - 44916.3.17 - POP. > 5K, BUT < 200K - HARNETT - TOTAL					0.1	24	50	845	8	18	25	66	3	3	3	0.1	25	135	
44916.3.18	Harnett	Angier	NC 210	First Citizens Bank DW	0.1	5						4				0.1			
44916.3.18	Harnett	Angier	NC 210	Fish Dr								1							
44916.3.18	Harnett	Angier	NC 210	Library DW								4							
44916.3.18	Harnett	Angier	NC 210	N Broad St								1							
44916.3.18	Harnett	Angier	NC 210	Speedway DW								2							
44916.3.18	Harnett	Angier	NC 210	Walgreens DW								1							
44916.3.18	Harnett	Angier	NC 55	Walgreens DW								2							
44916.3.18	Harnett	Angier	NC 55	W Cutts St					1										
44916.3.18	Harnett	Angier	SR 1502 (Wimberly St)	N Willow St								1							
R-5786HC - 44916.3.18 - POP. > 200K - HARNETT - TOTAL					0.1	5	0	0	1	0	0	16	0	0	0	0.1	0	0	
GRAND TOTAL - HARNETT					0.3	34	50	845	9	20	25	105	3	3	3	0.3	25	135	

SUMMARY OF QUANTITIES - ROBESON

PROJECT	COUNTY	MUNICIPALITY	MAJOR ROUTE	MINOR ROUTE	0000100000-N Mobilization	1220000000-E Incidental Stone Base	2549000000-E 2'-6" Concrete Curb & Gutter	2591000000-E 4" Concrete Sidewalk (5' Wide)	2600000000-N Retrofit Existing Curb Ramp	2605000000-N Concrete Curb Ramp	2612000000-E 6" Concrete Driveway	2613000000-N Remove & Replace Curb Ramps	2800000000-N Adjustments of Catch Basins	2815000000-N Adjustments of Drop Inlets	2830000000-N Adjustment of Manholes	4457000000-N Temporary Traffic Control	4695000000-E Thermoplastic Pavement Marking Lines (8", 90 mils)	4891000000-E Thermoplastic Pavement Marking Lines (24", 90 mils)	NOTES
NO					LS	TON	LF	SY	EA	EA	SY	EA	EA	EA	EA	LS	LF	LF	
44916.3.16	Robeson	Red Springs	N. Main St.	W. Second Ave.	0.1	10	10	10				2	1	1		0.1	25	25	
44916.3.16	Robeson	Red Springs	N. Main St.	Third Ave.															
44916.3.16	Robeson	Red Springs	S. Main St.	Fourth Ave.			10	10	5	1		1							
44916.3.16	Robeson	Red Springs	S. Main St.	Sixth Ave.			30	30	2	2		4							
R-5786HA - 44916.3.16 - POP. < 5K - ROBESON - TOTAL					0.1	10	50	50	7	3	0	7	1	1	0	0.1	25	25	
44916.3.17	Robeson	Pembroke	NC 711	Blaine St.		2	10	10		2									
SUBTOTAL					0.0	2	10	10	0	2	0	0	0	0	0	0.0	0	0	
44916.3.17	Robeson	Maxton	Business 74	Pine St.		15	5	5		1							75	75	
44916.3.17	Robeson	Maxton	Business 74				5	5		1									
44916.3.17	Robeson	Maxton	Business 74				5	5		1									
44916.3.17	Robeson	Maxton	W. Central St.	N. Elm St.			20	20				4							
44916.3.17	Robeson	Maxton	W. Central St.	N. Vann St.			10	10		2									
44916.3.17	Robeson	Maxton	W. Central St.	N. McNair St.			10	10				2							
44916.3.17	Robeson	Maxton	W. Central St.	N. Florence St.					1										
SUBTOTAL					0.0	15	55	55	1	5	0	6	0	0	0	0.0	75	75	
44916.3.17	Robeson	Lumberton	NC 72	Graham	0.1	10		16								0.1			
44916.3.17	Robeson	Lumberton	NC 72	Oxendine				16											
SUBTOTAL					0.1	10	0	32	0	0	0	0	0	0	0	0.1	0	0	
R-5786HB - 44916.3.17 - POP. > 5K, BUT < 200K - ROBESON - TOTAL					0.1	27	65	97	1	7	0	6	0	0	0	0.1	75	75	
GRAND TOTAL - ROBESON					0.2	37	115	147	8	10	0	13	1	1	0	0.2	100	100	