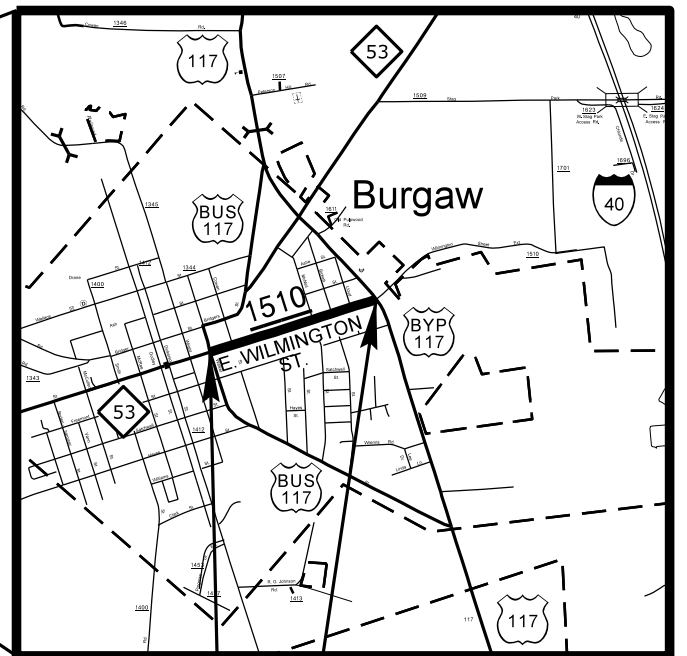
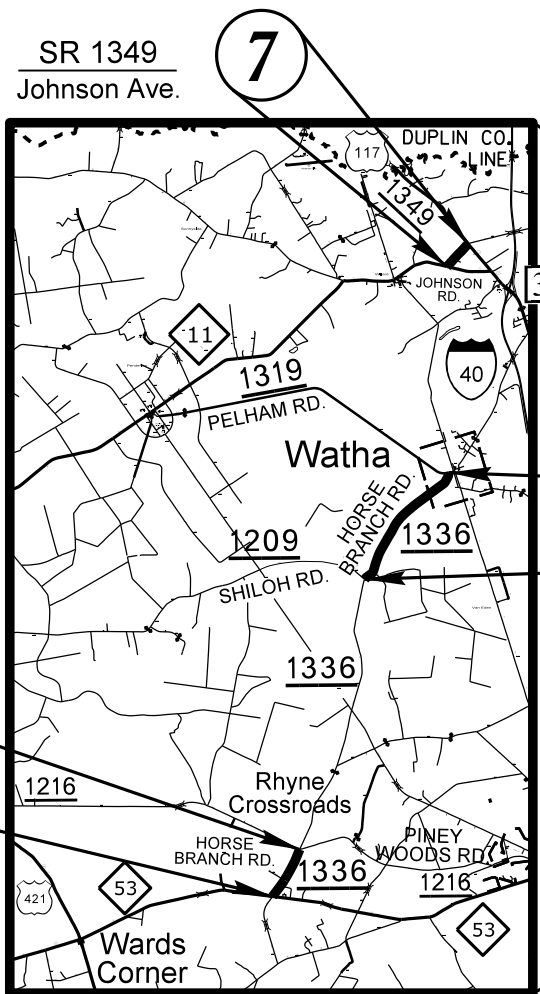
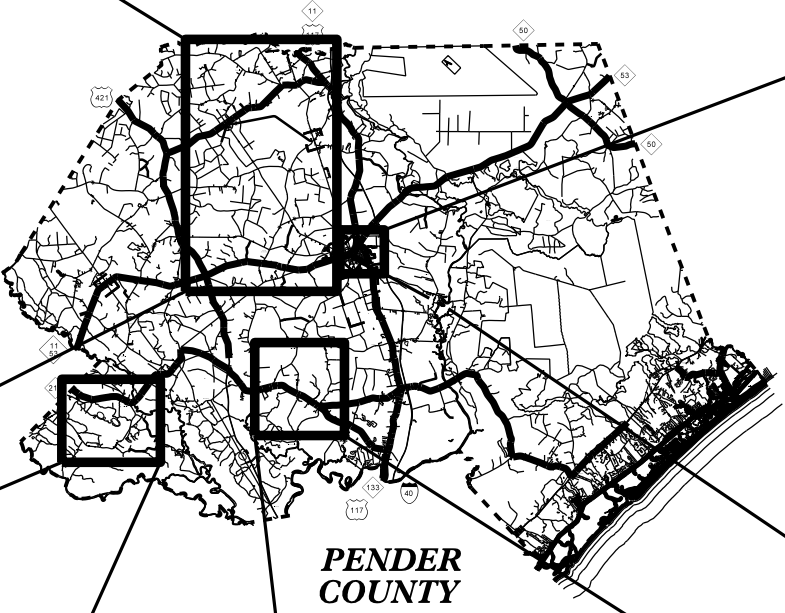


PENDER COUNTY

LOCATION: 7 SECTIONS OF SECONDARY ROADS

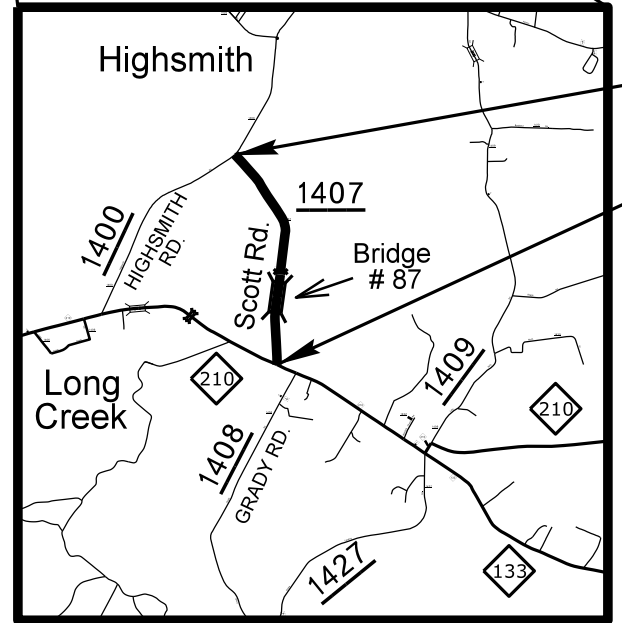
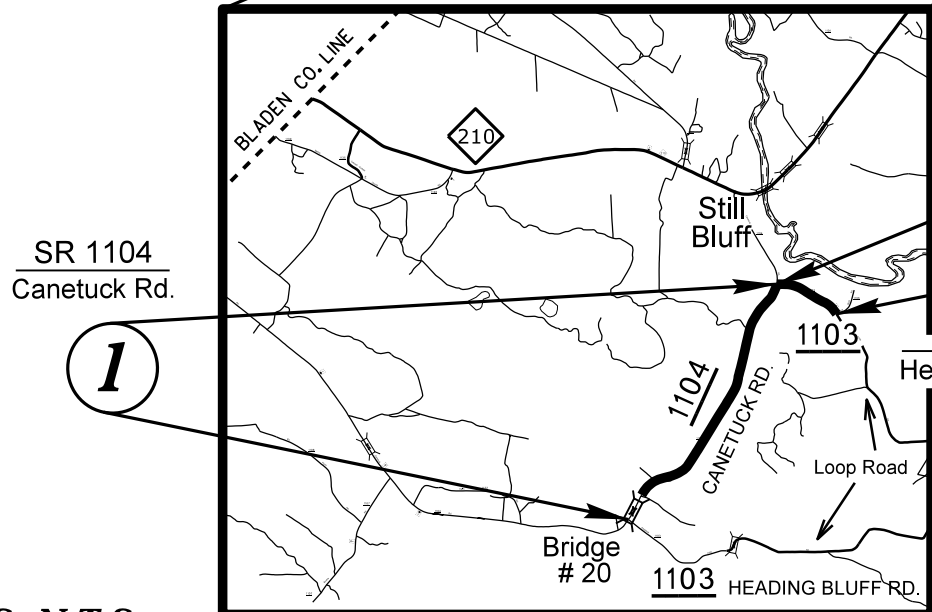
TYPE OF WORK: MILLING & RESURFACING, ETC.



4
SR 1336
Horse Branch Rd.

3
SR 1336
Horse Branch Rd.

6
SR 1510
E. Wilmington St.



1
SR 1104
Canetuck Rd.

2
SR 1103
Heading Bluff Rd.

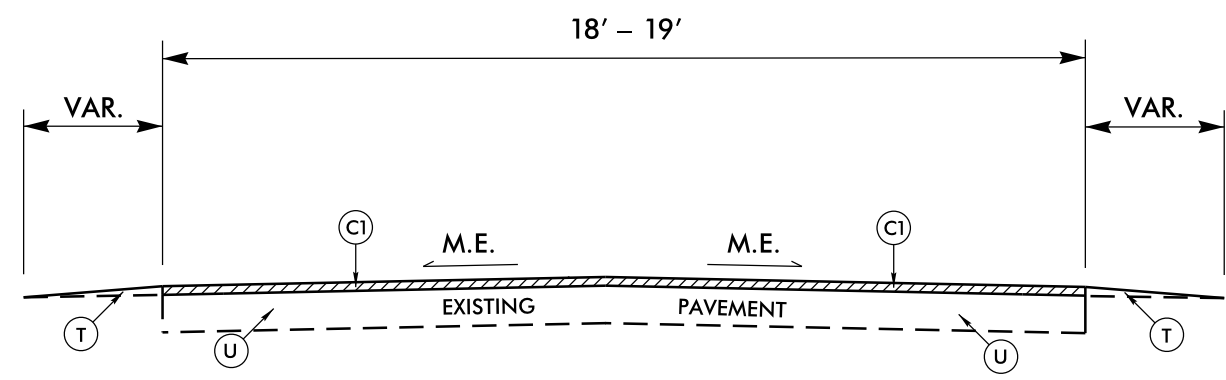
5
SR 1407
Scott Rd.

MAPS N.T.S.

INDEX OF SHEETS	
SHEET NO.	SHEET
1	INDEX OF SHEETS & TITLE SHEETS
2 - 15	PAVEMENT SCHEDULE, TYPICAL SECTIONS & DETAIL SHEETS
16 - 18	SUMMARY OF QUANTITIES
19	TRAFFIC CONTROL DETAIL

REVISIONS

8/17/99
 I:\FEB-2015 13:29 D:\Data\2015 Resurfacing\Pender
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 3CR.20711.173_Bdy_15H.dgn



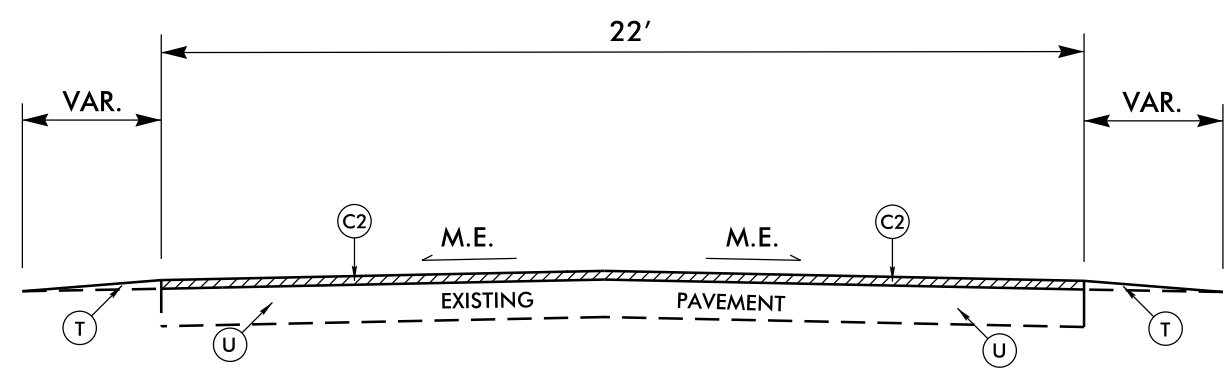
TYPICAL SECTION NO. 1

MAP NO. 1
 SR 1104 (CANETUCK RD.)
 MP 0.80 - MP 3.02
 (NO WORK BRIDGE #20
 MP 0.86 - MP 0.88)

MAP NO. 3
 SR 1336 (HORSE BRANCH RD.)
 MP 0.00 - MP 2.29

MAP NO. 2
 SR 1103 (HEADING BLUFF RD.)
 MP 0.00 - MP 0.53

MAP NO. 7
 SR 1349 (JOHNSON AVE.)
 MP 0.00 - MP 0.51



TYPICAL SECTION NO. 2

MAP NO. 4
 SR 1336 (HORSE BRANCH RD.)
 MP 7.84 - MP 6.95

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
C2	PROP. APPROX. 1¼" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 138 LBS. PER SQ.YD.
E1	PROP. APPROX. 4" DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ.YD.
R1	EXISTING CONCRETE MONOLITHIC ISLAND
R2	EXISTING CONCRETE 2'-6" CURB & GUTTER
T	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V1	MILLING BITUMINOUS PAVEMENT 1 1/2" DEPTH

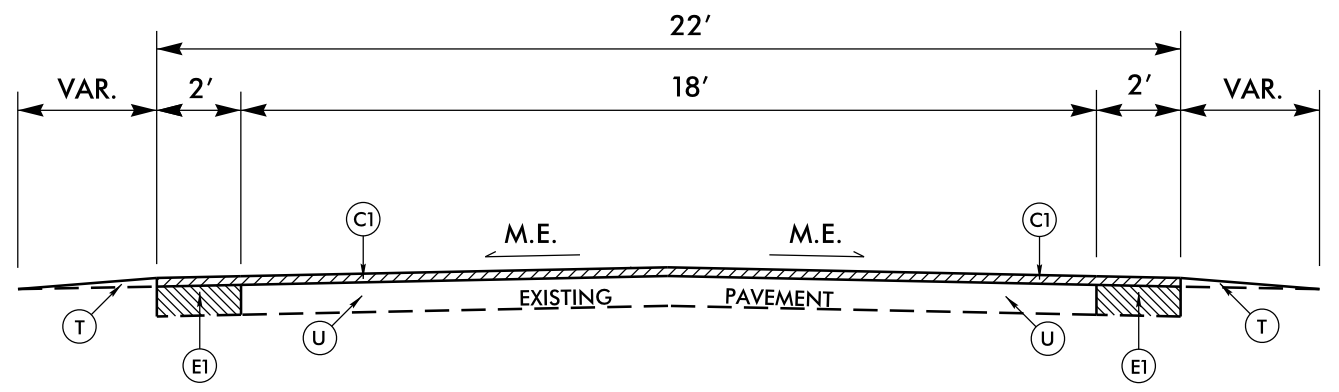
REVISIONS

8/17/99

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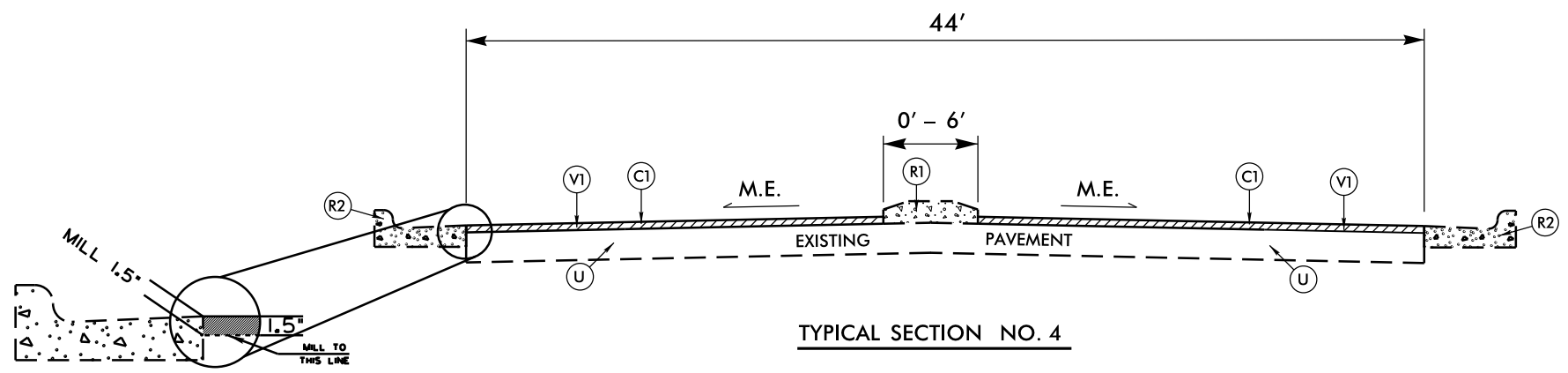
I:\FB-2015\13131\01\Resurfacing\15_Pender\15_Pender.dwg

8/17/99



TYPICAL SECTION NO. 3
 MAP NO. 5
 SR 1407 (SCOTT RD.)
 MP 0.00 – MP 1.83
 (NO WORK BRIDGE #87
 MP 0.54 – MP 0.55)

PAVEMENT SCHEDULE	
C1	1½" S9.5B
E1	4" B25.0B
R1	EXIST. CONC. MONOLITHIC IS.
R2	EXIST. 2'-6" C & G
T	EARTH MATERIAL (SH. RECONSTRUCTION)
U	EXISTING PAVEMENT
V1	MILLING 1½" DEPTH

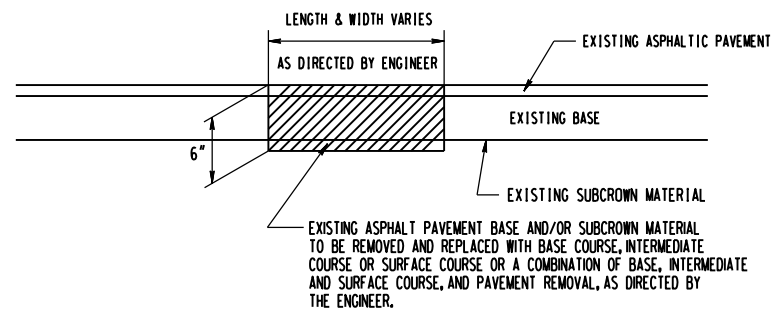


TYPICAL SECTION NO. 4
 MAP NO. 6
 SR 1510 (E. WILMINGTON ST.)
 MP 0.00 – MP 0.67

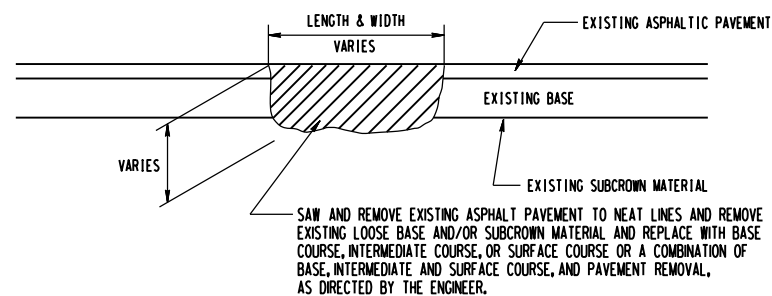
REVISIONS

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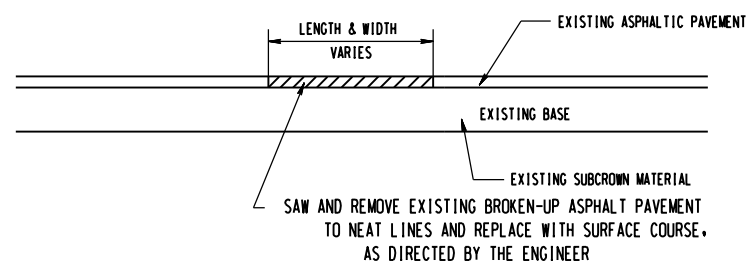
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



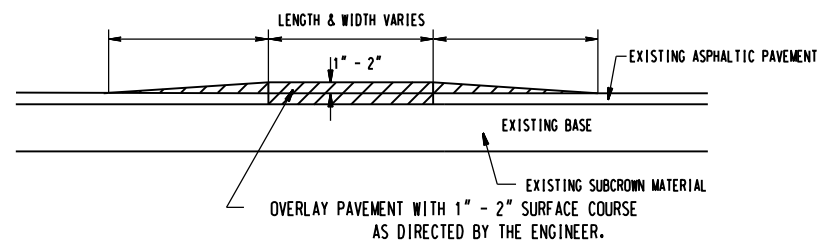
DETAIL NO. 1



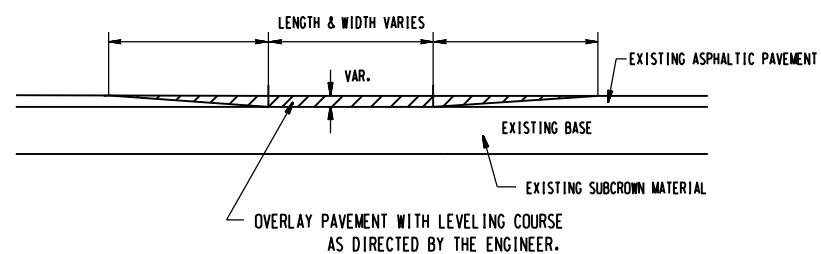
DETAIL NO. 2



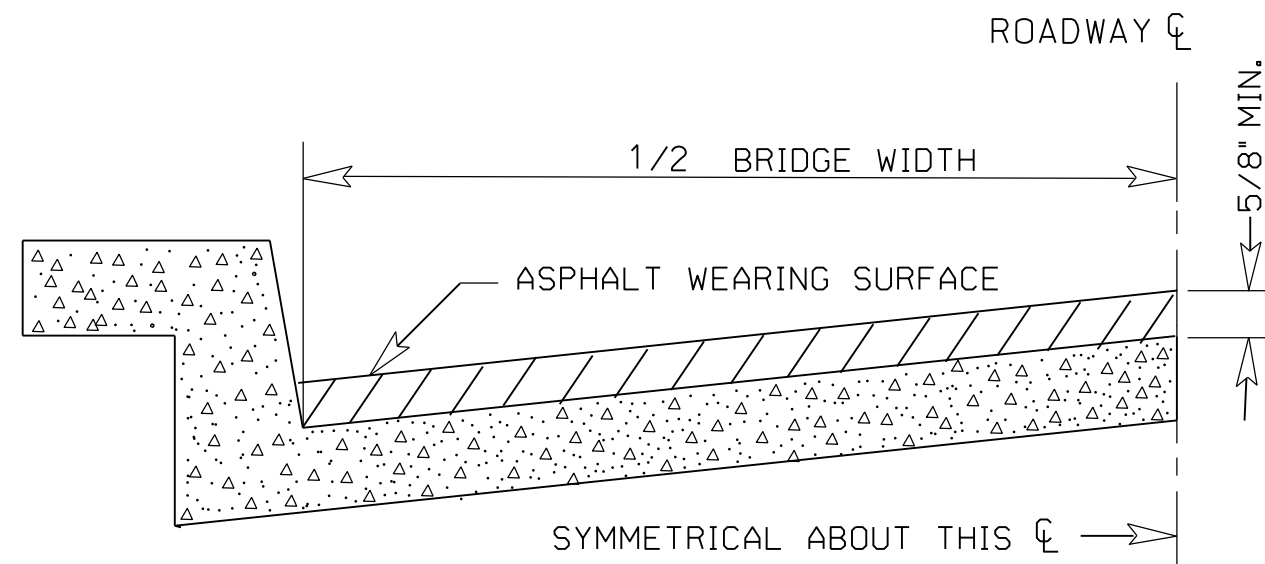
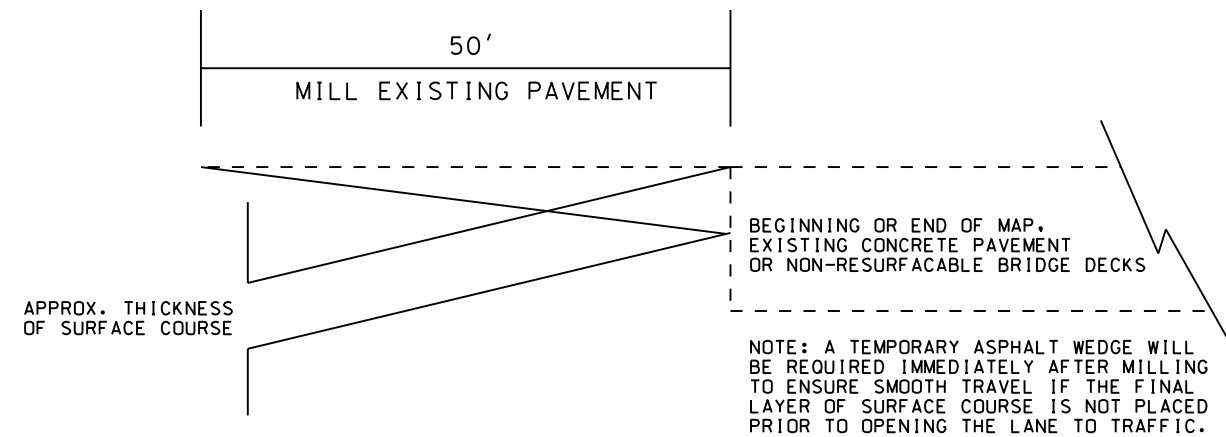
DETAIL NO. 3



DETAIL NO. 4



DETAIL NO. 5



BRIDGE HALF TYPICAL SECTION

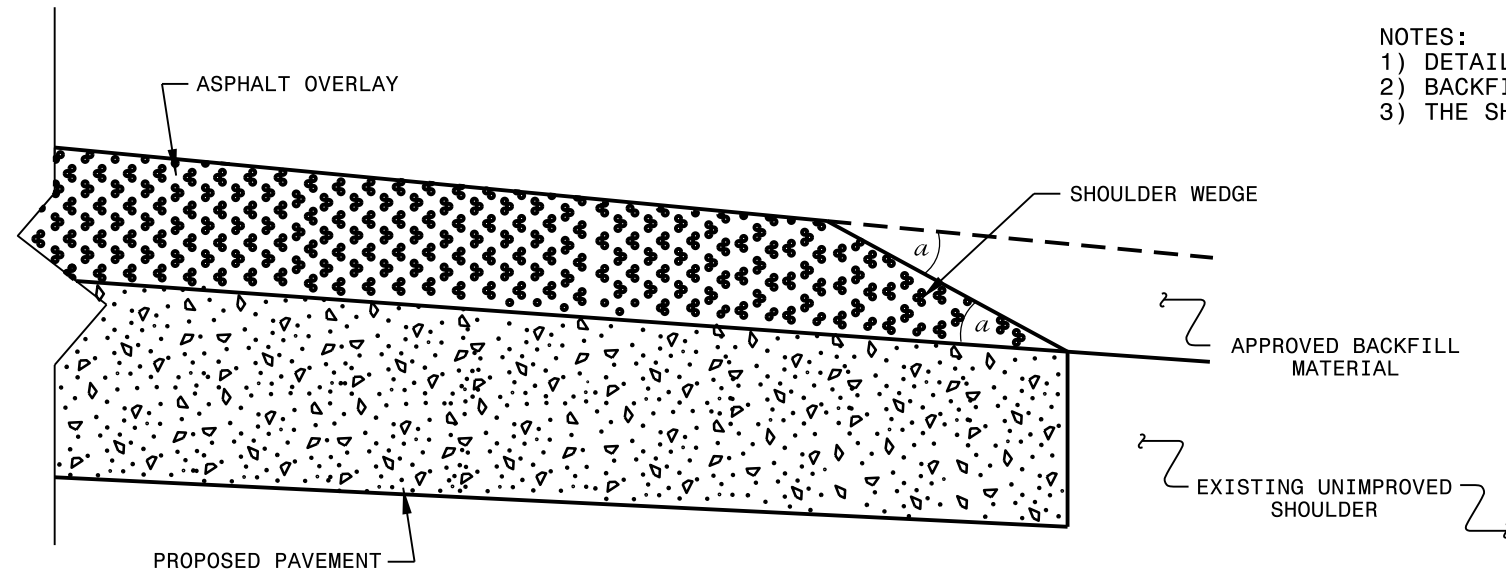
FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

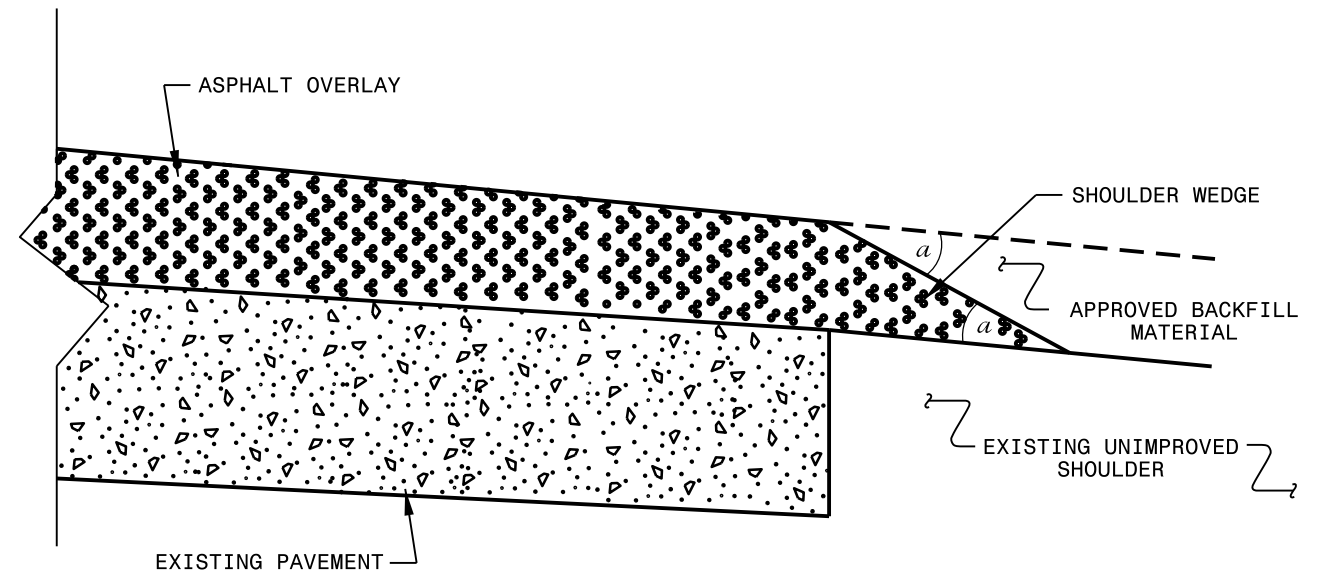
REVISIONS

IL-FEB-2015 11:31
D:\Resurfacing_Design\2015_Resurfacing\Pender
County\Plan Sheets\3CR.20711.173_Patch.dgn

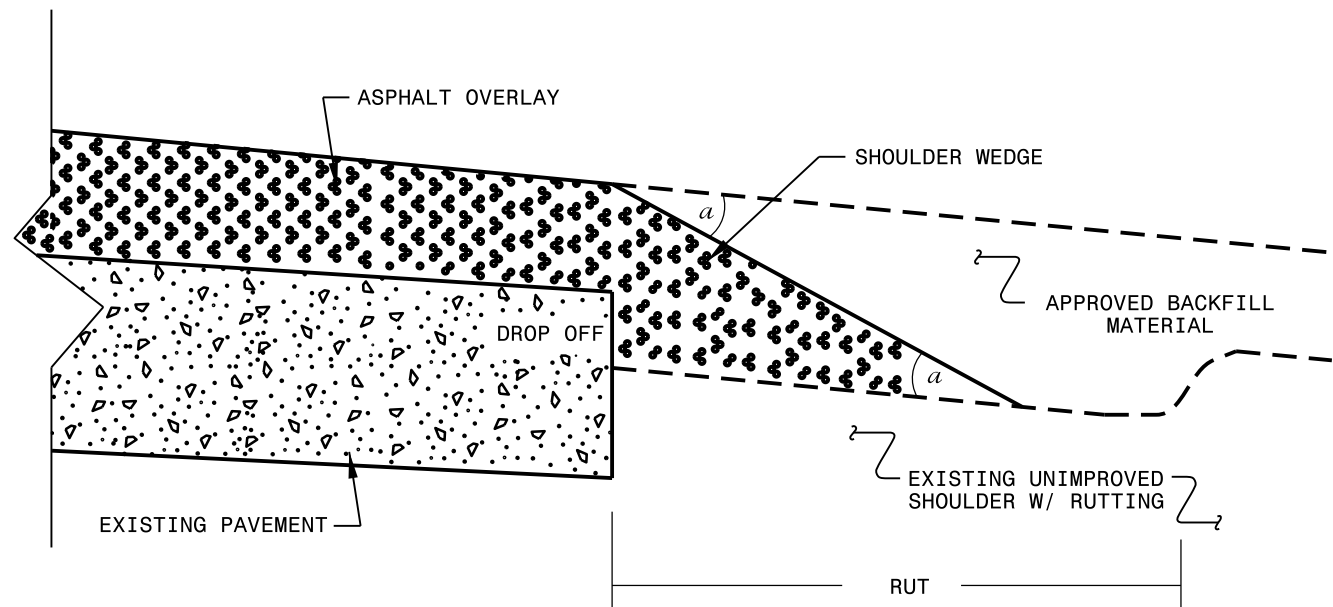
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

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: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

SYSTEMS DESIGN
 USER NAME

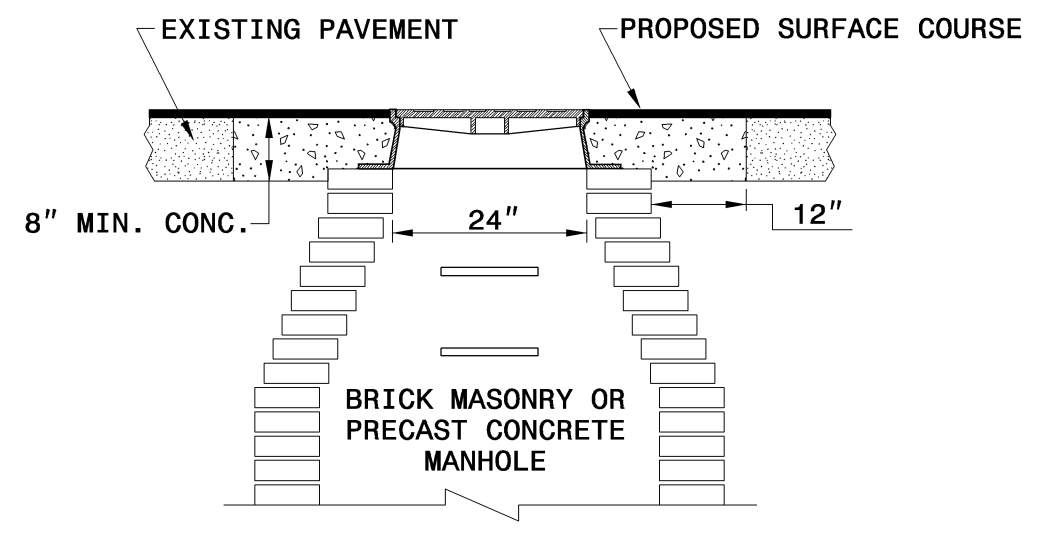
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

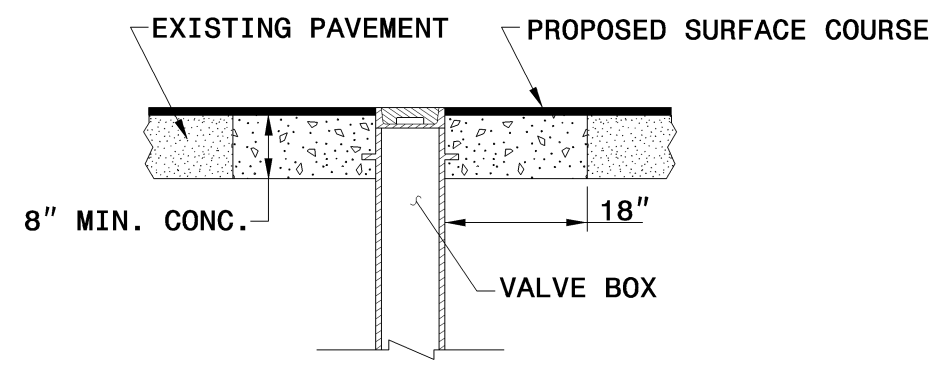
SHEET 1 OF 1
840D55

GENERAL NOTES:

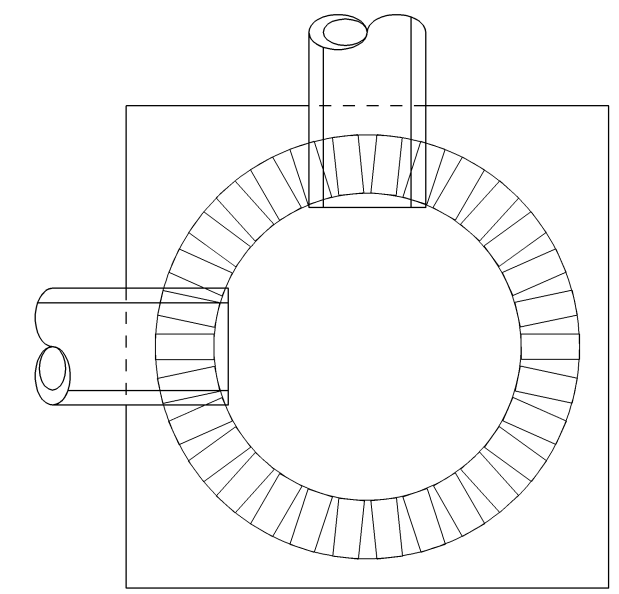
1. USE RAPID SET GROUT, MORTAR, OR CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
5. MIX MORTAR TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS 1/2" +/- 1/8"



MANHOLE CONCRETE ENCASEMENT



VALVE BOX CONCRETE ENCASEMENT



ELEVATION VIEW

PLACE BRICK ACCORDING TO ELEVATION VIEW

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

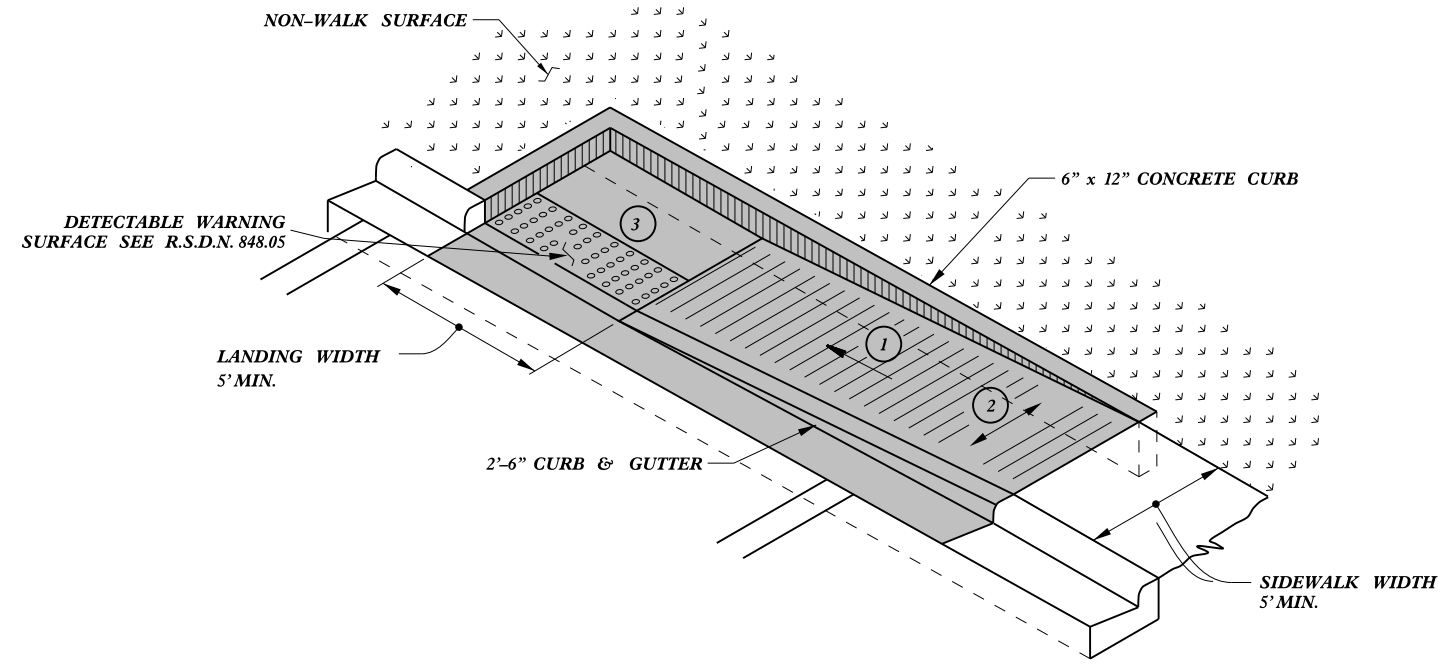
SHEET 1 OF 1
840D55

**PROJECT SERVICES UNIT
STANDARDS AND SPECIAL DESIGN**
Office 919-250-4128 FAX 919-250-4119

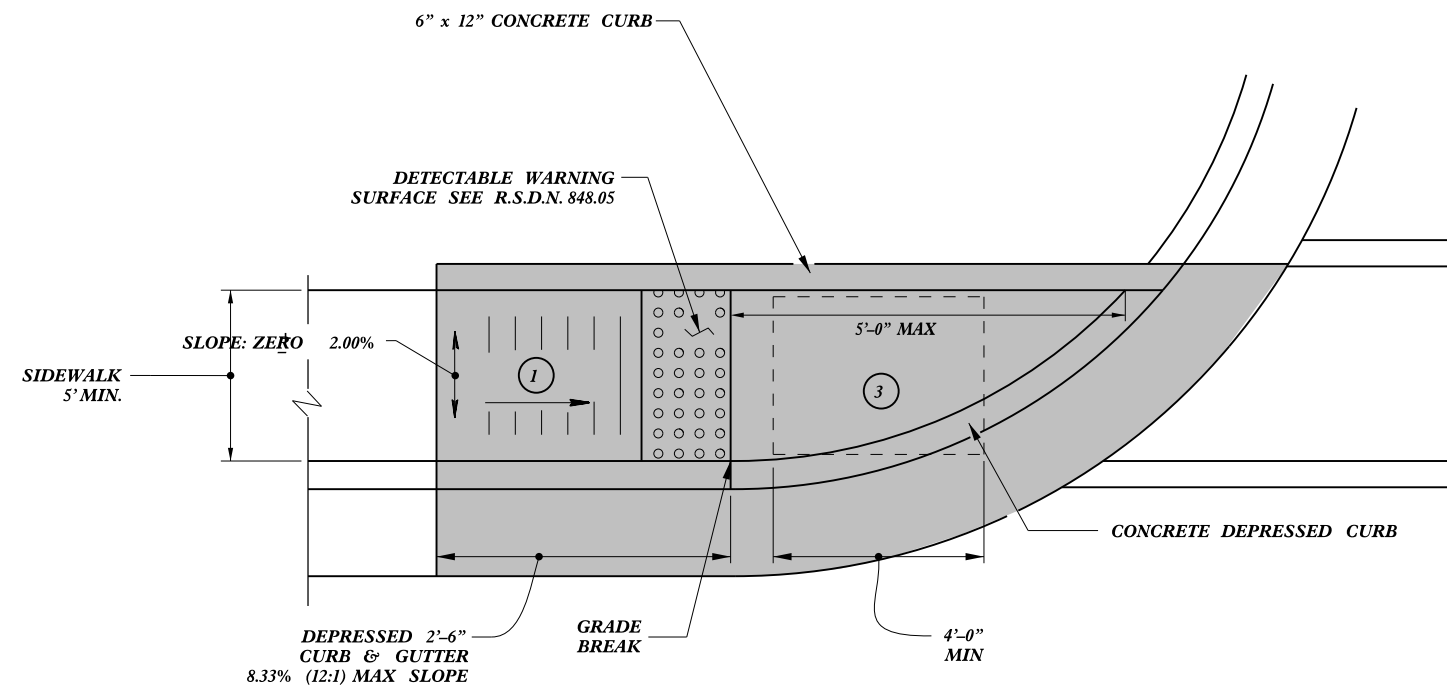
SEE PLATE FOR TITLE

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: E.E. WARD DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: /usr/details/stand/840d55.dgn

07-DEC-2005 14:25 S:\Contracts\Contractors\Special Details\ericward\usr\details\stand\840d55.dgn ericward AT P5222293



TYPE 1A



TYPE 1

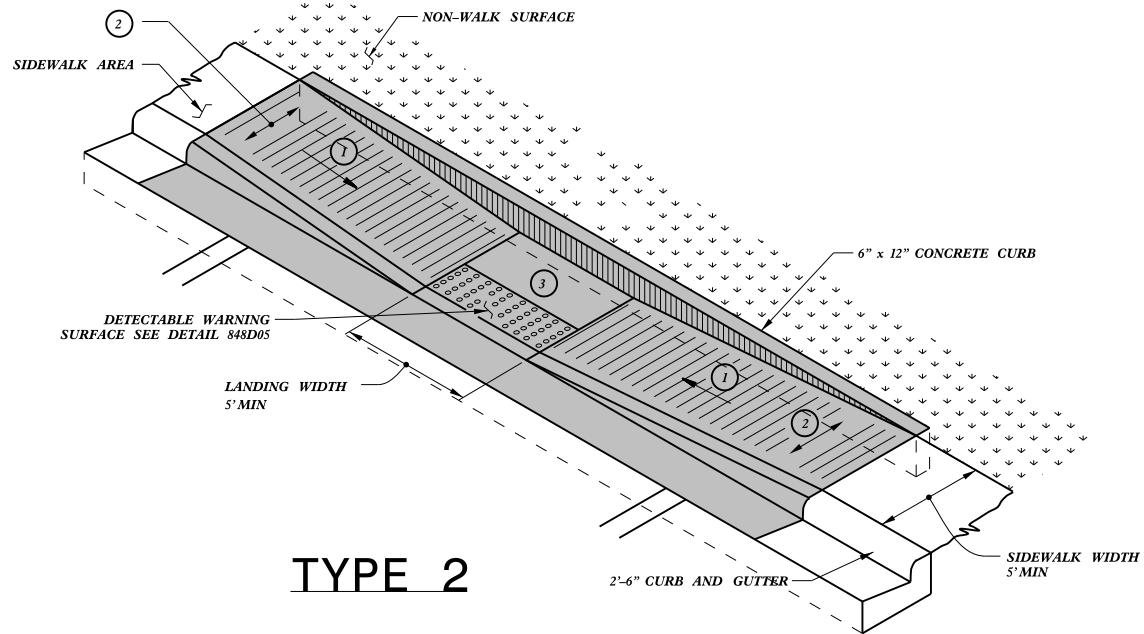
- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

PAY LIMITS FOR CURB RAMP

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: sstds/2012CurbRamp/CurbRampDetails.dwg	

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

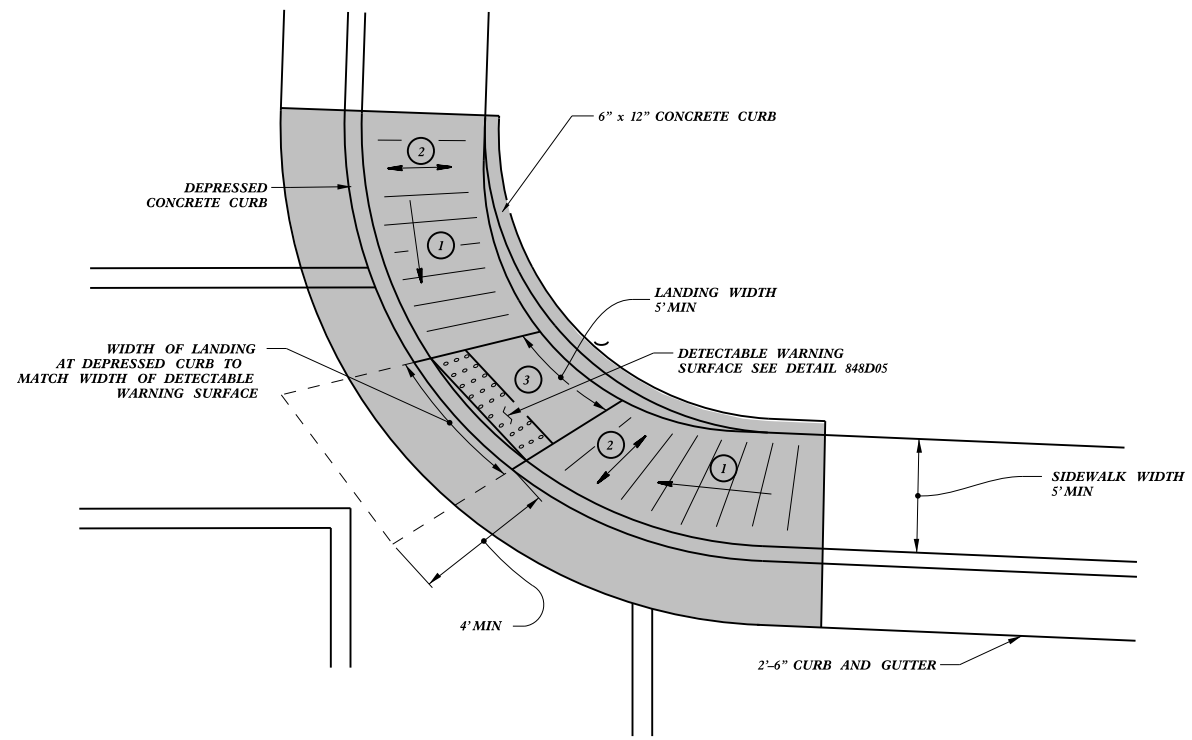
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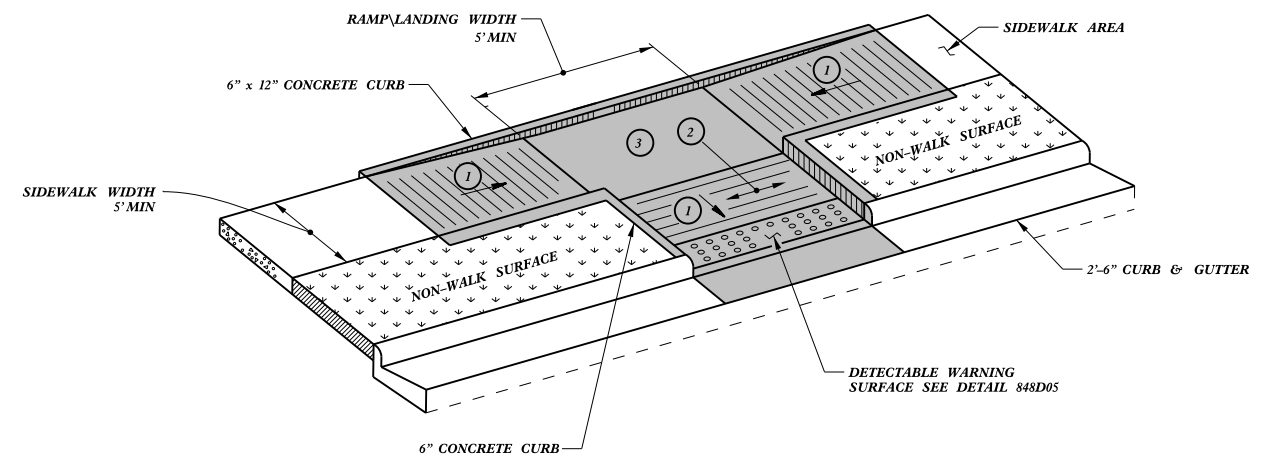
TYPE 2

PAY LIMITS FOR 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

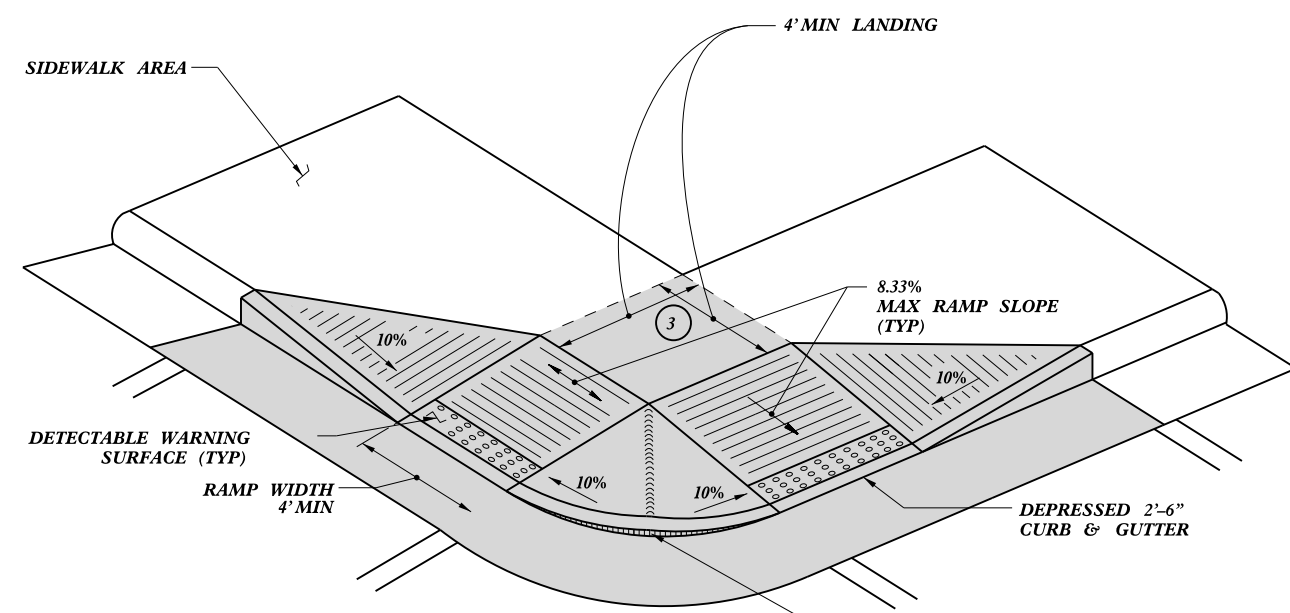


TYPE 3

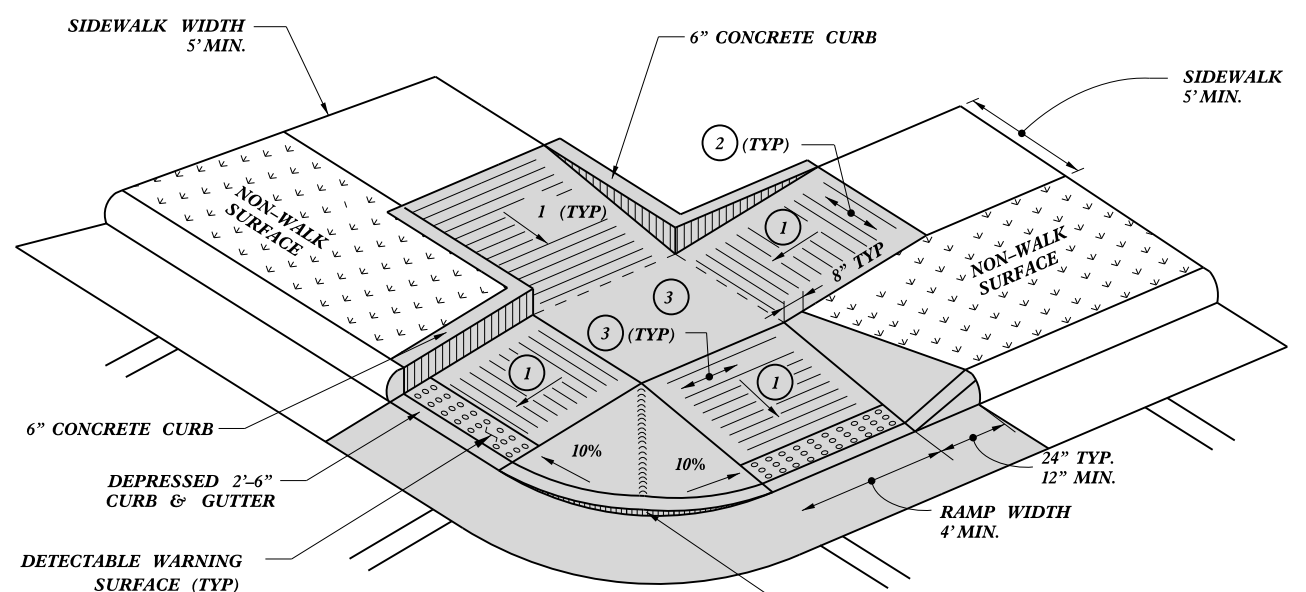
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Parallel Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: s:stds/2012CurbRamp/CurbRampDetails.dwg	

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

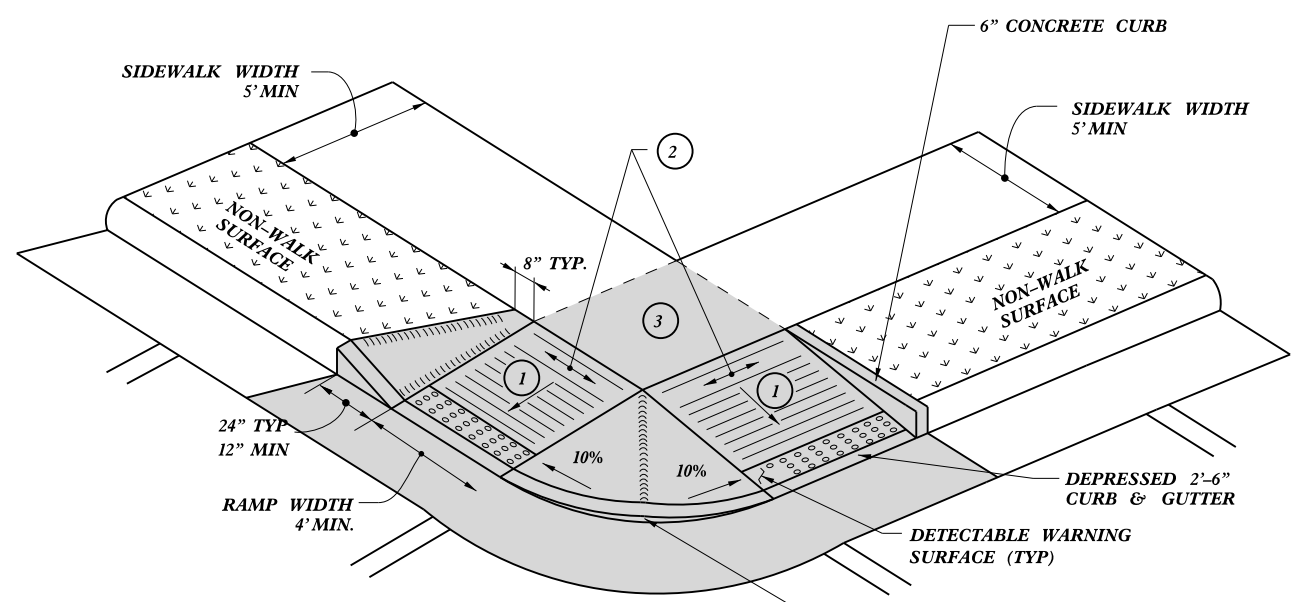
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TYPE 4



TYPE 5



TYPE 4A

- 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.

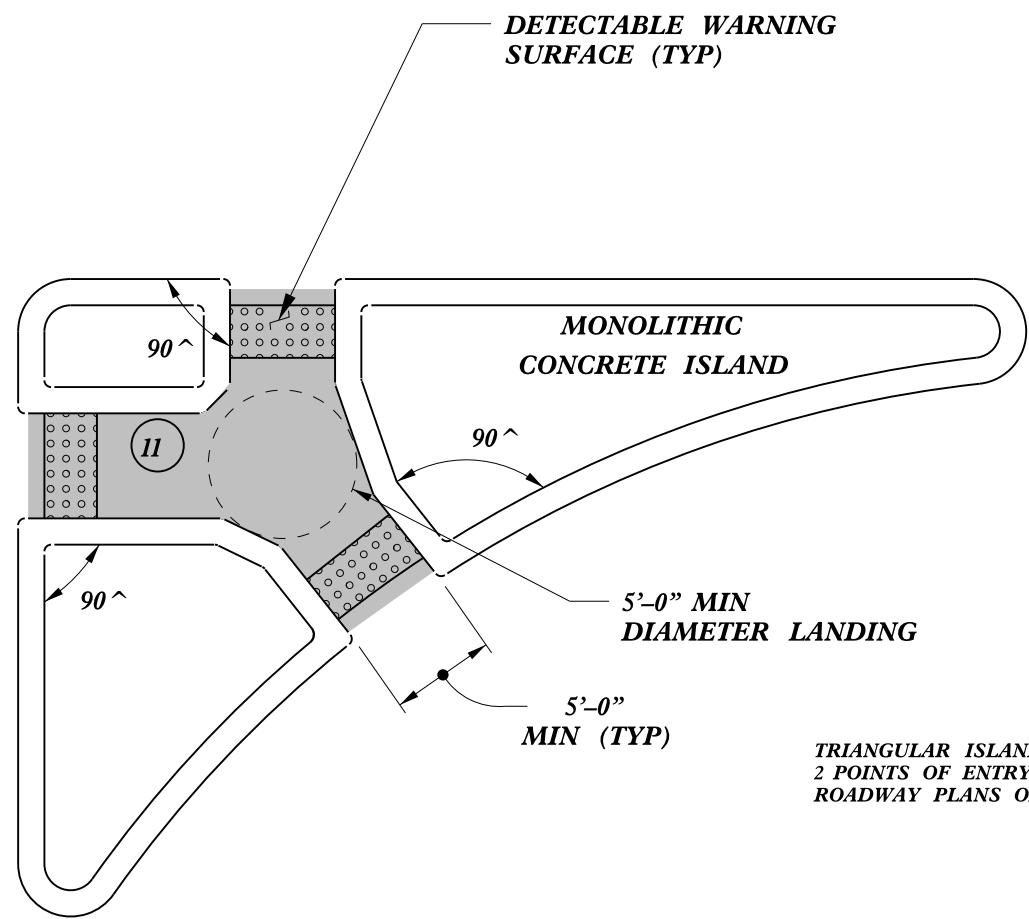
PAY LIMITS FOR CURB RAMP

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.dwg	

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

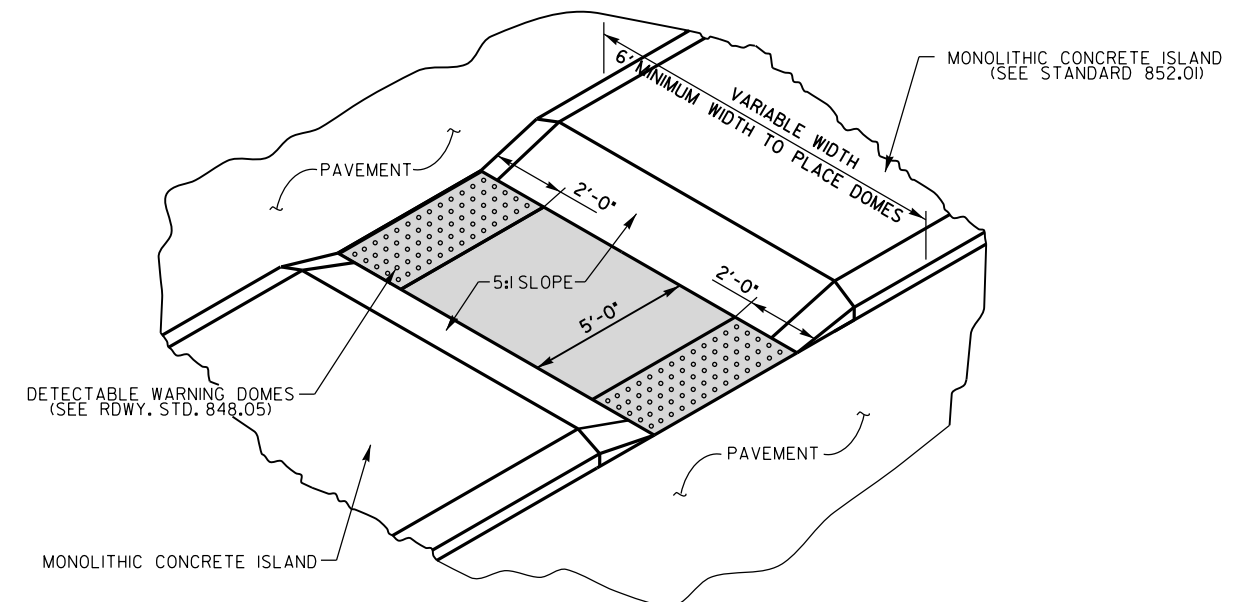
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PAY LIMITS FOR 1 CURB RAMP

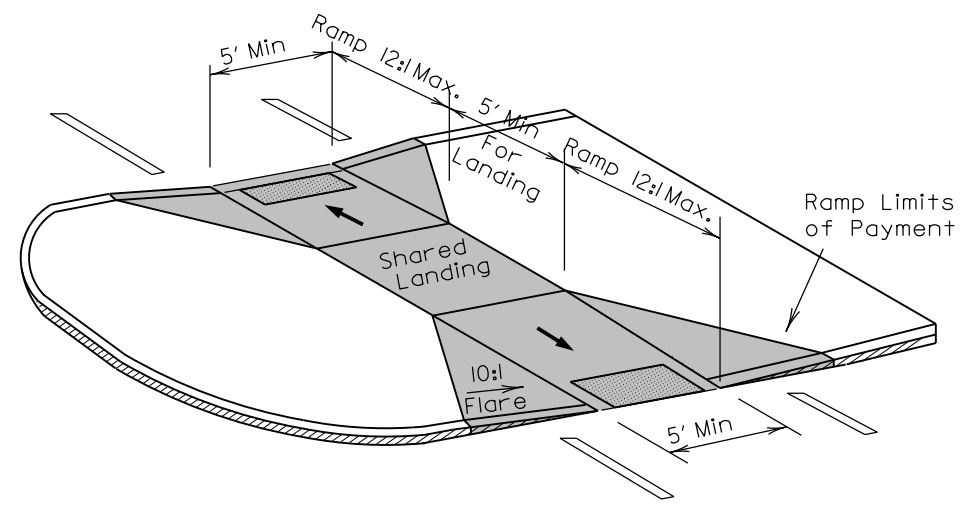


TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

TRIANGULAR ISLAND WITH CUT THROUGH



MEDIAN ISLAND WITH CUT THROUGH



MEDIAN ISLAND CURB RAMPS

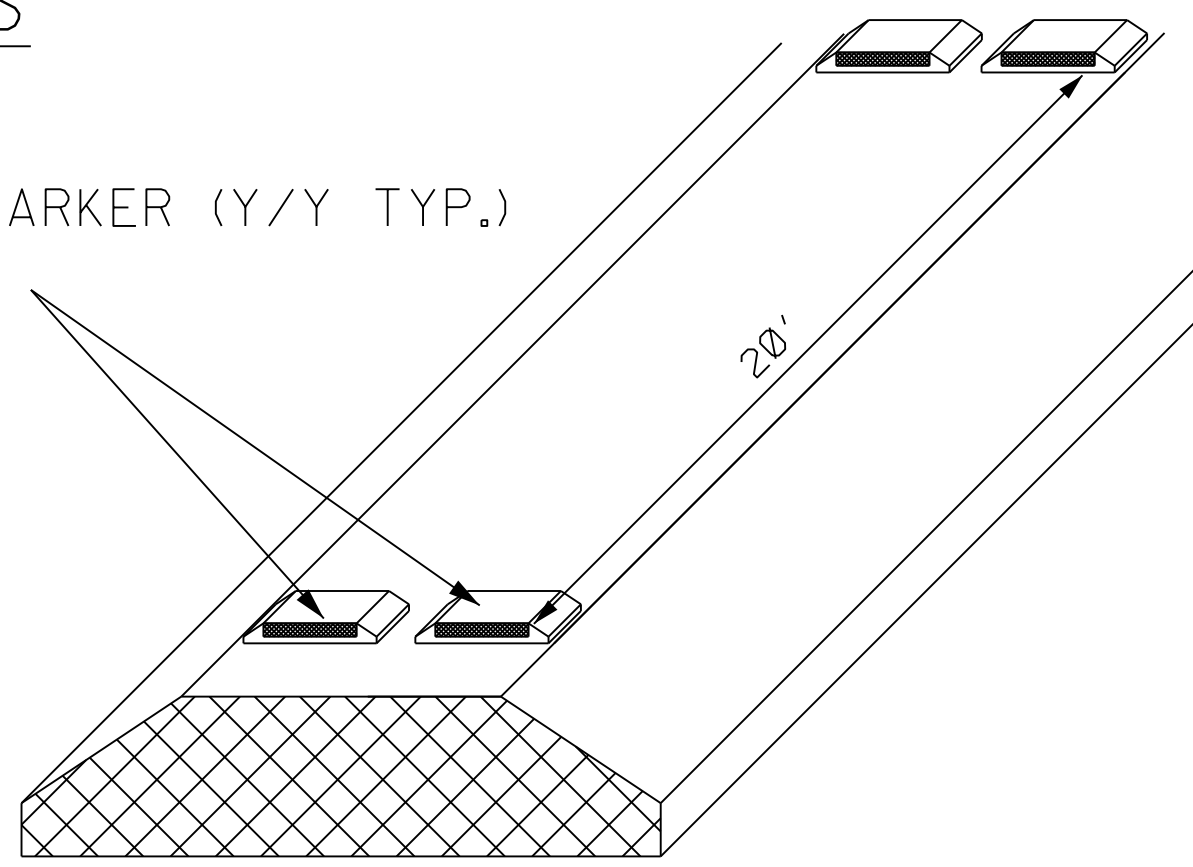
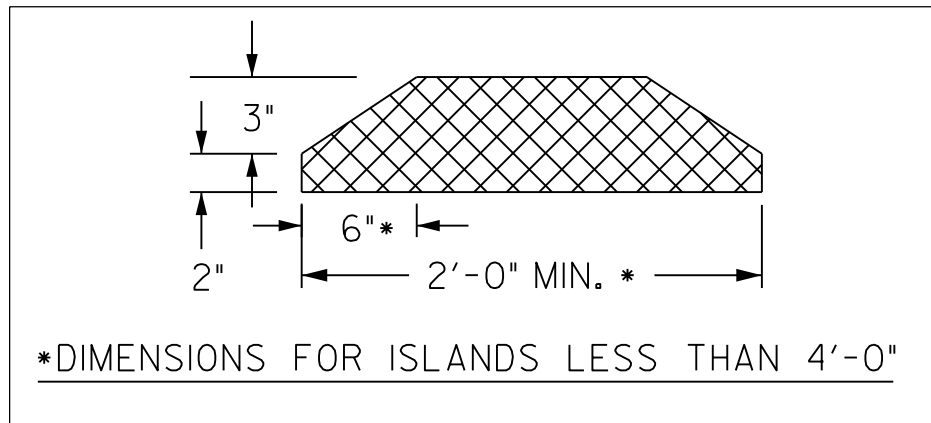
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950	FAX 919-250-4119
CURB RAMPS	
Median or Turn Lane Islands	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: sstds/2012CurbRamp/CurbRampDetails.dwg	

5/14/99
C:\P\2012\2012CurbRamp\CurbRampDetails.dwg

PAVEMENT MARKING DETAIL

PAVEMENT MARKER DETAIL FOR CONCRETE ISLANDS

RAISED PAVEMENT MARKER (Y/Y TYP.)
(STD. DWG 1251.01)



MONOLITHIC CONCRETE ISLAND

(SEE STANDARD DRAWINGS 852.01, 852.02, & 852.06 FOR DETAILS.)

REVISIONS

8/17/99

I:\FFB-2015\1143_Dat\2015_Resurfacing\Pender_County\Plan_Sheets\3CR.20711.173_PM_Detail.dgn
 11/18/2015 10:43:24 AM

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

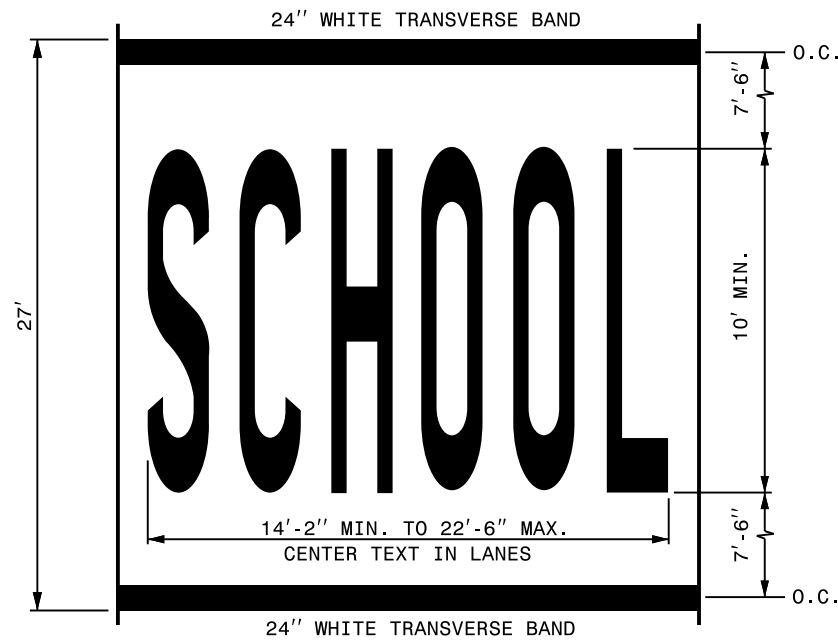
ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

REVISED
9/14/11

SHEET 3 OF 8

1205D08

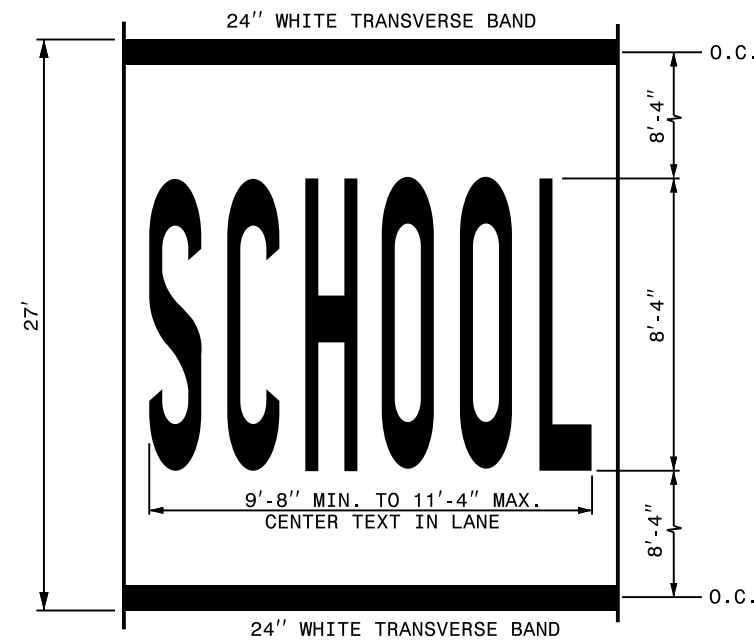
MULTI-LANE WIDTH "SCHOOL"



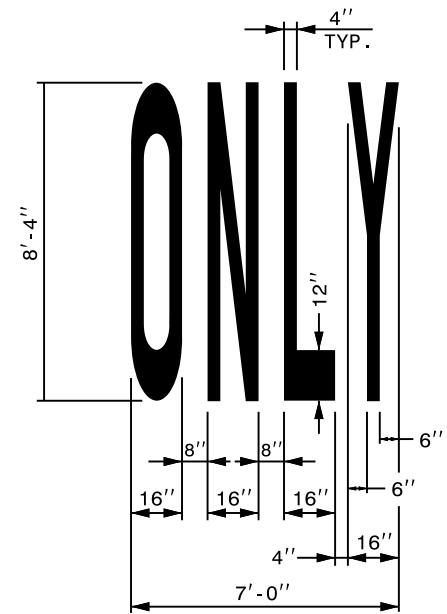
LETTER HEIGHT = 10' MIN.
LETTER WIDTH = 20"
SPACING = 10" MIN./30" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

NOTE: THE TWO-LANE PAVEMENT MARKING DIMENSIONS OF "SCHOOL" SHOWN IN PART 7 OF THE MUTCD MAY ALSO BE USED.

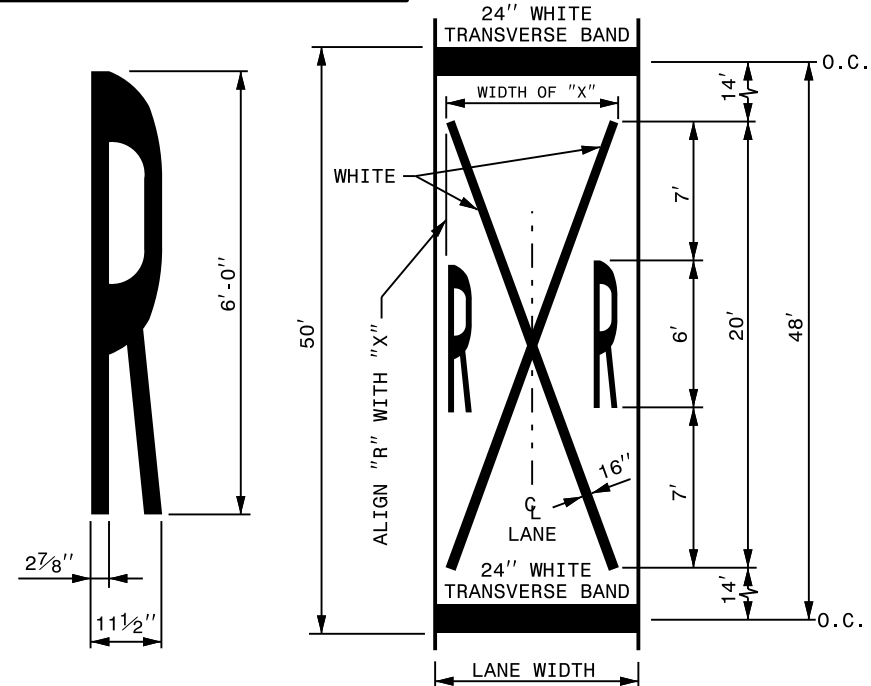
SINGLE LANE WIDTH "SCHOOL"



LETTER HEIGHT = 8'-4"
LETTER WIDTH = 16"
SPACING = 4" MIN./8" MAX. (USE EQUAL SPACING BETWEEN LETTERS)



RAILROAD RXR SYMBOL



LANE WIDTH (FEET)	WIDTH OF "X" (FEET)
8' ≤ W ≤ 9'	7'
9' < W ≤ 12'	8'
W > 12'	10'

GENERAL NOTES:

- 1- THE SCHOOL PAVEMENT MARKING CONSISTS OF SIX (6) CHARACTERS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.10 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
- 2- PAVEMENT MARKING ADVANCE OF A HIGHWAY-RAIL CROSSING SHALL CONSIST OF TWO (2) CHARACTERS AND TWO (2) 16" LINES (FORMING AN X) WHICH ARE PAID FOR UNDER TWO SEPARATE PAY ITEMS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.11 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

REVISED
9/14/11

SHEET 3 OF 8

1205D08

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

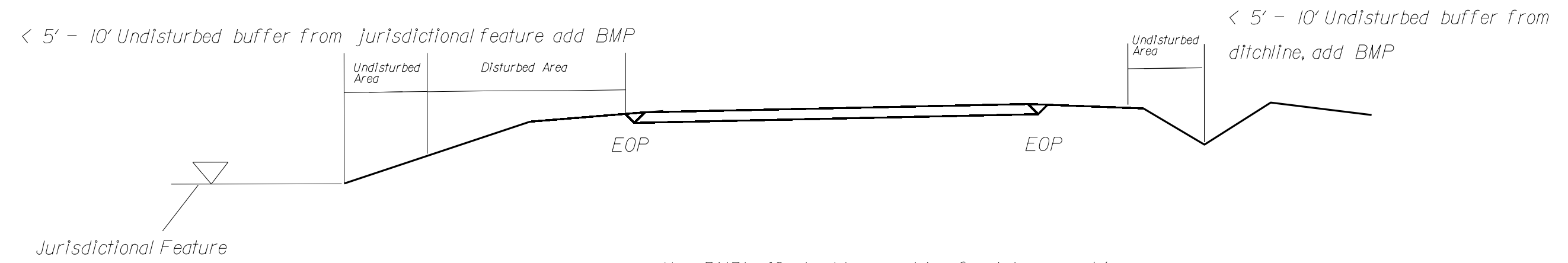
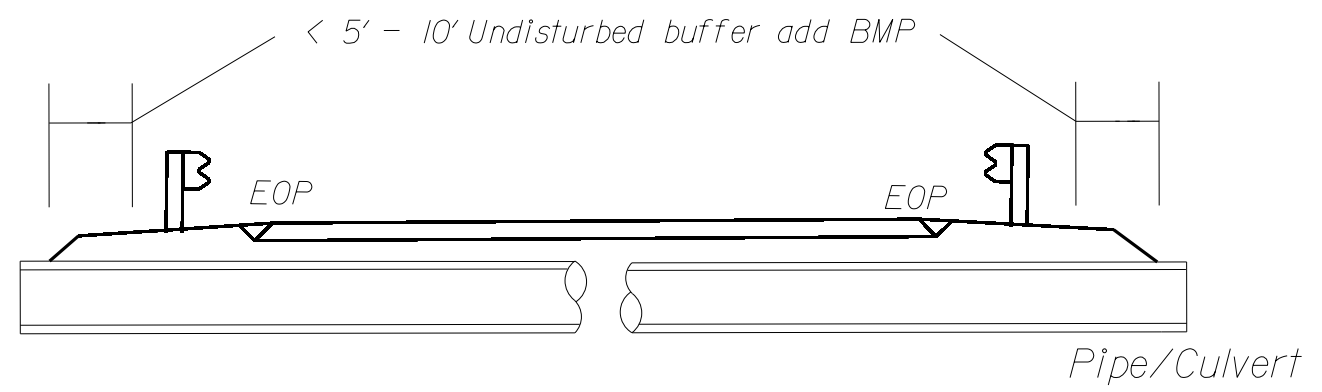
SEE TITLE BLOCK

ORIGINAL BY: J. HOWERTON DATE: 10/5/11
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.: s:\oel\12 Stds to Special Details\560d01

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

BMP Options: Wattle or Silt Fence

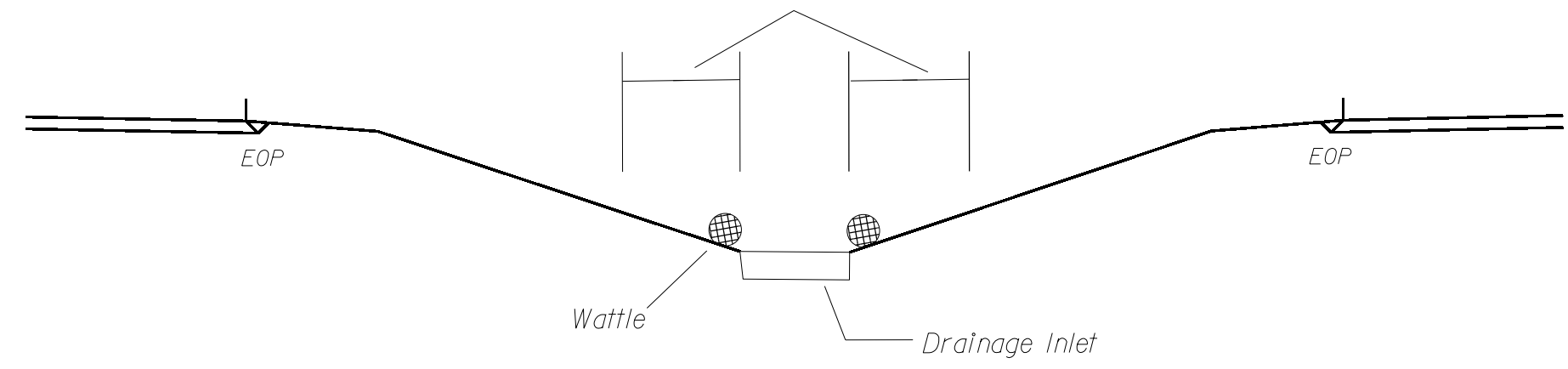
EROSION CONTROL DETAIL



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



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



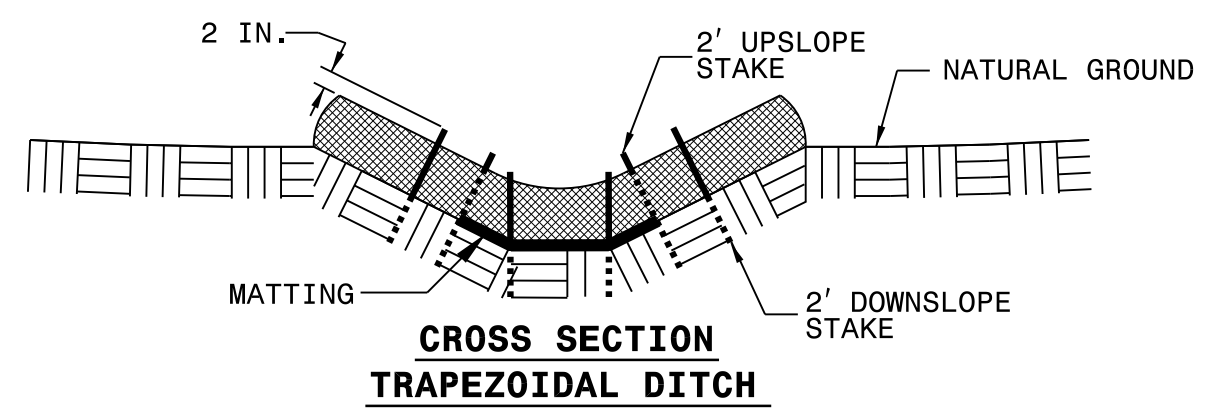
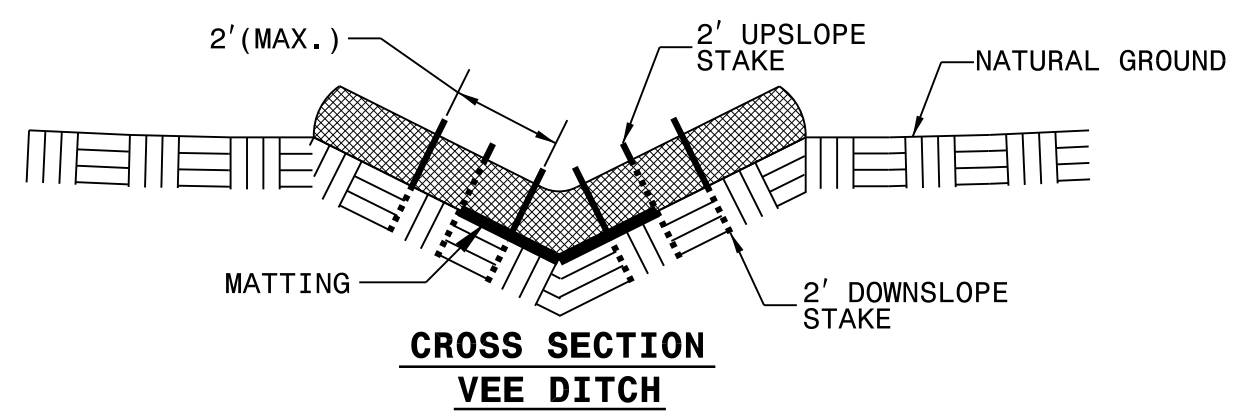
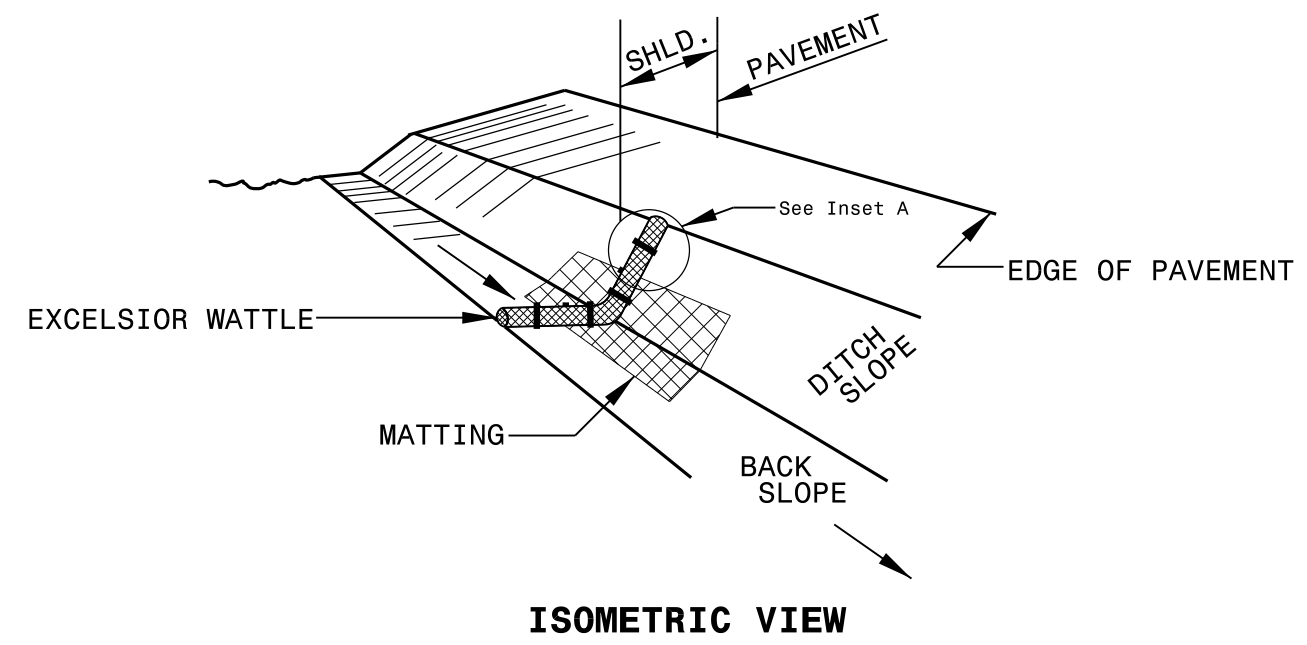
NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

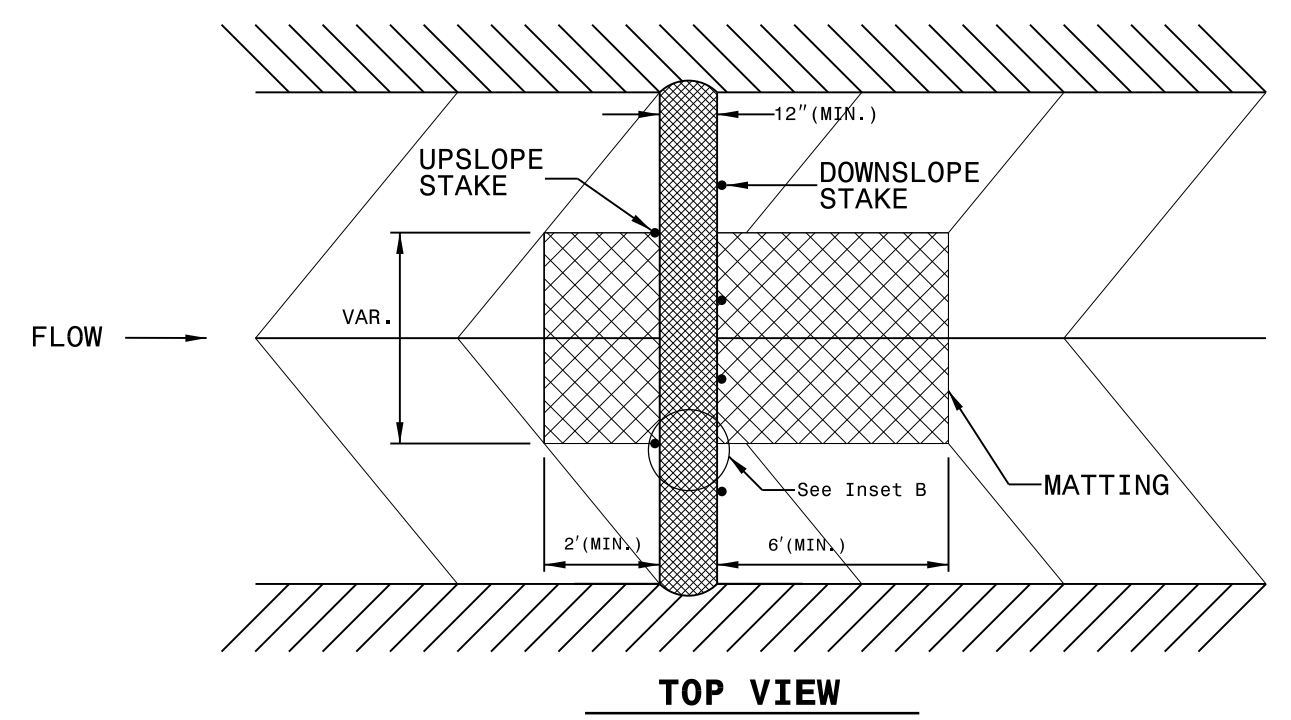
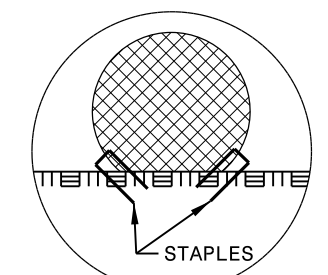
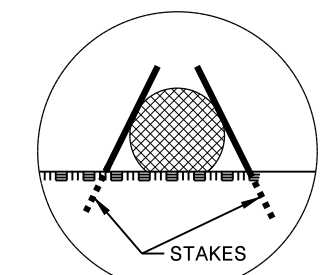
SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

WATTLE 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.



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 Author: J. L. ...
 Plot: ...

PROJECT NO.	SHEET NO.
3CR.20711.173	16

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	SHOULDER BORROW CY	AGGREGATE BASE COURSE TONS	INC. STONE BASE TONS	SHOULDER RECONST. SMI	1 1/2" MILLING SY	INC. MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TON	PATCHING EXISTING PAVEMENT (MILL) TON	RETROFIT EXISTING CURB RAMP EA	CONCRETE CURB RAMP EA	INC. CONC SY	2'-6" CURB & GUTTER, REMOVE & REPLACE LF	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	
3CR.20711.173	Pender	1	SR 1104 (CAN ETUCK RD.)	FROM SR 1103 (HEADIN G BLUFF RD.) TO SR 1103 (HEADIN G BLUFF RD.) MP 0.80 - MP 3.02	1	2	2WU	NO	NO	2.22	18	180		25	4.44		400		2,181		131								
TOTAL FOR MAP NO. 1										2.22		180		25	4.44		400		2,181		131								
3CR.20711.173	Pender	2	SR 1103 (HEADIN G BLUFF RD.-N. ENTRANCE)	FROM SR 1104 (CAN ETUCK RD.) TO END OF PAVEMENT- MP 0.00 - MP 0.53	1	2	2WU	NO	NO	0.53	19	90	20	20	1.06		211		549		33								
TOTAL FOR MAP NO. 2										0.53		90	20	20	1.06		211		549		33								
3CR.20711.173	Pender	3	SR 1336 (HORSE BRAN CH RD.)	FROM SR 1319 (PELHAM RD.) TO SR 1209 (SHILOH RD.) MP 0.00 - MP 2.29	1	2	2WU	NO	NO	2.29	18	260		50	4.58		200		2,250		135	240							
TOTAL FOR MAP NO. 3										2.29		260		50	4.58		200		2,250		135	240							
3CR.20711.173	Pender	4	SR 1336 (HORSE BRAN CH RD.)	FROM NC 53 TO SR 1216 (PIN EY WOODS RD.) - MP 7.84 - MP 6.95	2	2	2WU	NO	NO	0.89	22	80		10	1.78		244			873	58								
TOTAL FOR MAP NO. 4										0.89		80		10	1.78		244			873	58								
3CR.20711.173	Pender	5	SR 1407 (SCOTT RD.)	FROM NC 210 TO SR 1400 (HIGHSMITH RD.) MP 0.00 - MP 1.83	3	2	2WU	NO	NO	1.83	18	25		25	3.66		400	1,114	2,195		181	295			33				
TOTAL FOR MAP NO. 5										1.83		25		25	3.66		400	1,114	2,195		181	295			33				
3CR.20711.173	Pender	6	SR 1510 (EAST WILMIN GTON ST.)	FROM 0.06 MI. EAST OF N C 53 TO US 117 - MP 0.06 - MP 0.67	4	2	2WU	NO	NO	0.61	44					16,061			1,459		88	2	1		30	16	10		
TOTAL FOR MAP NO. 6										0.61						16,061			1,459		88	2	1		30	16	10		
3CR.20711.173	Pender	7	SR 1349 (JOHN SON AVE.)	FROM US 117 TO N C 11 - MP 0.00 - MP 0.51	1	2	2WU	NO	NO	0.51	20	90		20	1.02		222		571		34	134							
TOTAL FOR MAP NO. 7										0.51		90		20	1.02		222		571		34	134							
TOTAL FOR PROJ NO. 3CR.20711.173										8.88		725	20	150	16.54	16,061	1,677	1,114	9,205	873	660	669	2	1	33	30	16	10	
GRAND TOTAL										8.88		725	20	150	16.54	16,061	1,677	1,114	9,205	873	660	669	2	1	33	30	16	10	

PROJECT NO.	SHEET NO.
3CR.20711.173	17

SUMMARY OF QUANTITIES

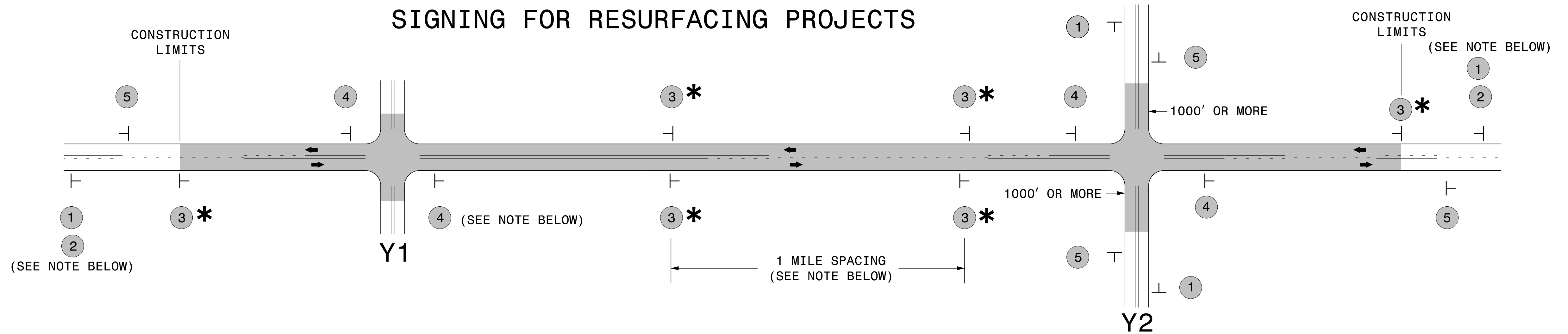
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	TEMP. SILT FENCE LF	STONE FOR EC CLASS B TON	SEDIMENT CONTROL STONE TON	TEMP. MULCHING ACR	MATTING FOR EROSION CONTROL SY	1/4" HARDWARE CLOTH LF	WATTLE LF	SEED & MULCHING AC	SEED FOR REPAIR SEEDING LB	FERTILIZER FOR REPAIR SEEDING TON
3CR.20711.173	Pender	1	SR 1104 (CAN ETUCK RD.)	FROM SR 1103 (HEADIN G BLUFF RD.) TO SR 1103 (HEADIN G BLUFF RD.) MP 0.80 - MP 3.02	1	2	2WU	NO	222	56	56	2.22	20	111	40	1.62	111	0.56
TOTAL FOR MAP NO. 1									222	56	56	2.22	20	111	40	1.62	111	0.56
3CR.20711.173	Pender	2	SR 1103 (HEADIN G BLUFF RD.-N. ENTRANCE)	FROM SR 1104 (CAN ETUCK RD.) TO END OF PAVEMENT- MP 0.00 - MP 0.53	1	2	2WU	NO	53	14	14	0.53	10	27	10	0.39	27	0.14
TOTAL FOR MAP NO. 2									53	14	14	0.53	10	27	10	0.39	27	0.14
3CR.20711.173	Pender	3	SR 1336 (HORSE BRAN CH RD.)	FROM SR 1319 (PELHAM RD.) TO SR 1209 (SHILOH RD.) MP 0.00 - MP 2.29	1	2	2WU	NO	240	60	60	1.50	20	120	40	1.66	120	0.60
TOTAL FOR MAP NO. 3									240	60	60	1.50	20	120	40	1.66	120	0.60
3CR.20711.173	Pender	4	SR 1336 (HORSE BRAN CH RD.)	FROM NC 53 TO SR 1216 (PIN EY WOODS RD.) - MP 7.84 - MP 6.95	2	2	2WU	NO	89	23	23	0.50	10	45	20	0.65	45	0.22
TOTAL FOR MAP NO. 4									89	23	23	0.50	10	45	20	0.65	45	0.22
3CR.20711.173	Pender	5	SR 1407 (SCOTT RD.)	FROM NC 210 TO SR 1400 (HIGHSMITH RD.) MP 0.00 - MP 1.83	3	2	2WU	NO	183	46	46	1.00	20	92	30	1.80	92	0.46
TOTAL FOR MAP NO. 5									183	46	46	1.00	20	92	30	1.80	92	0.46
3CR.20711.173	Pender	6	SR 1510 (EAST WILMIN GTON ST.)	FROM 0.06 MI. EAST OF N C 53 TO US 117 - MP 0.06 - MP 0.67	4	2	2WU	NO										
TOTAL FOR MAP NO. 6																		
3CR.20711.173	Pender	7	SR 1349 (JOHN SON AVE.)	FROM US 117 TO N C 11 - MP 0.00 - MP 0.51	1	2	2WU	NO	51	13	13	0.51	10	26	10	0.50	26	0.13
TOTAL FOR MAP NO. 7									51	13	13	0.51	10	26	10	0.50	26	0.13
TOTAL FOR PROJ NO. 3CR.20711.173									838	212	212	6.26	90	421	150	6.62	421	2.11
GRAND TOTAL									838	212	212	6.26	90	421	150	6.62	421	2.11

PROJECT NO.	SHEET NO.
3CR.20711.173	18

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4685000000-E	4686000000-E			4710000000-E	4721000000-E	4810000000-E		4835000000-E	4850000000-E	4900000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO	24" X 120 M WHITE THERMO	THERMO MSG SCHOOL 120 M	4" YELLOW PAINT	4" WHITE PAINT	24" WHITE PAINT	4" LINE REMOVAL	YELLOW & YELLOW MARKERS	
										SF	LS	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	EA
3CR.20711.173	Pender	1	SR 1104 (CANETUCK RD.)	FROM SR 1103 (HEADING BLUFF RD.) TO SR 1103 (HEADING BLUFF RD.) MP 0.80 - MP 3.02	1	2	2WU	2.22	18	256	0.24	23,444	20	17,582							360	110
TOTAL FOR MAP NO. 1										256	0.24	23,444	20	17,582							360	110
3CR.20711.173	Pender	2	SR 1103 (HEADING BLUFF RD.-N. ENTRANCE)	FROM SR 1104 (CANETUCK RD.) TO END OF PAVEMENT- MP 0.00 - MP 0.53	1	2	2WU	0.53	19	64	0.06	5,596	24	4,196								27
TOTAL FOR MAP NO. 2										64	0.06	5,596	24	4,196								27
3CR.20711.173	Pender	3	SR 1336 (HORSE BRANCH RD.)	FROM SR 1319 (PELHAM RD.) TO SR 1209 (SHILOH RD.) MP 0.00 - MP 2.29	1	2	2WU	2.29	18	256	0.24	24,184		18,136								114
TOTAL FOR MAP NO. 3										256	0.24	24,184		18,136								114
3CR.20711.173	Pender	4	SR 1336 (HORSE BRANCH RD.)	FROM NC 53 TO SR 1216 (PINEY WOODS RD.) - MP 7.84 - MP 6.95	2	2	2WU	0.89	22	112	0.09	9,398	48	7,050	100	12						45
TOTAL FOR MAP NO. 4										112	0.09	9,398	48	7,050	100	12						45
3CR.20711.173	Pender	5	SR 1407 (SCOTT RD.)	FROM NC 210 TO SR 1400 (HIGHSMITH RD.) MP 0.00 - MP 1.83	3	2	2WU	1.83	18	208	0.19	19,326		14,494							280	91
TOTAL FOR MAP NO. 5										208	0.19	19,326		14,494							280	91
3CR.20711.173	Pender	6	SR 1510 (EAST WILMINGTON ST.)	FROM 0.06 MI. EAST OF NC 53 TO US 117 - MP 0.06 - MP 0.67	4	2	2WU	0.61	44	80	0.13		5,350	4,726	2,375			4,726	5,350	2,375		38
TOTAL FOR MAP NO. 6										80	0.13		5,350	4,726	2,375			4,726	5,350	2,375		38
3CR.20711.173	Pender	7	SR 1349 (JOHNSON AVE.)	FROM US 117 TO NC 11 - MP 0.00 - MP 0.51	1	2	2WU	0.51	20	64	0.05	5,386		2,840								26
TOTAL FOR MAP NO. 7										64	0	5,386		2,840								26
TOTAL FOR PROJ NO. 3CR.20711.173										8.88	1	87,334	5,442	69,024	2,475	12	4,726	5,350	2,375	640	451	
GRAND TOTAL										8.88	1	87,334	5,442	69,024	2,475	12	4,726	5,350	2,375	640	451	
													74,466				10,076					

SIGNING FOR RESURFACING PROJECTS



LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

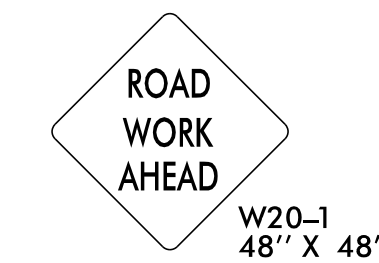
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.		
	2	 <small>W7-3aP 24" X 18"</small>	#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 *	 <small>SP 13107 48" X 48"</small>	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	 <small>SP 13106 48" X 48"</small>	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	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

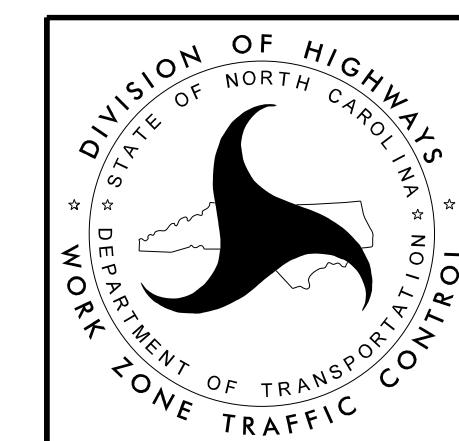
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS:
 STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).



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