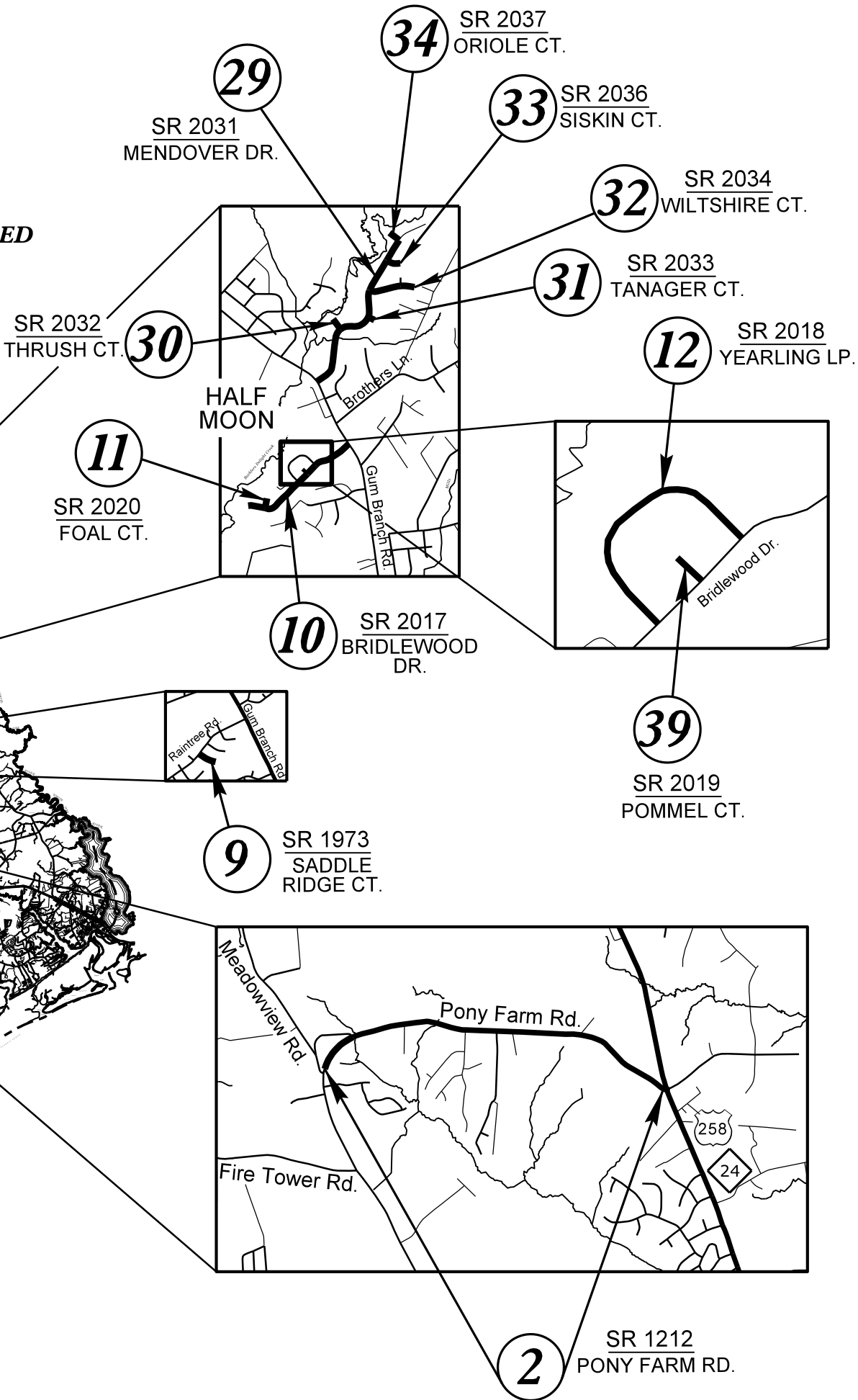
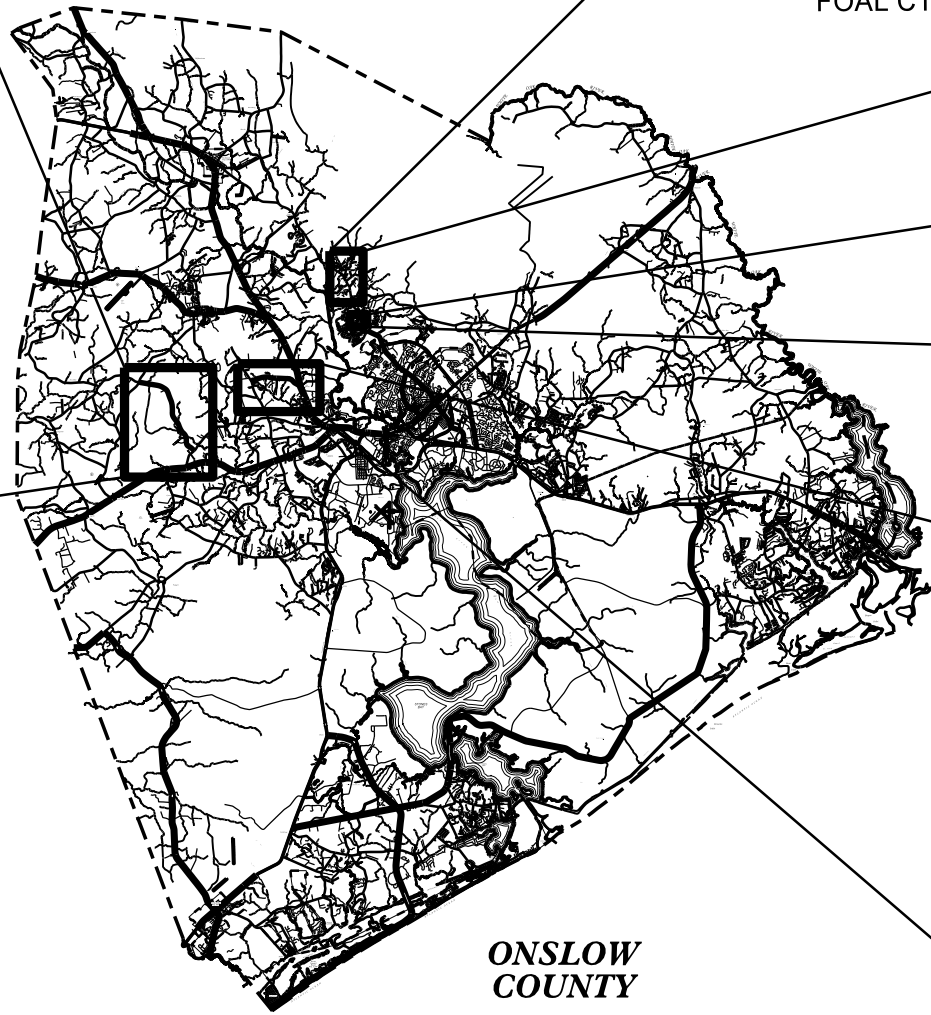
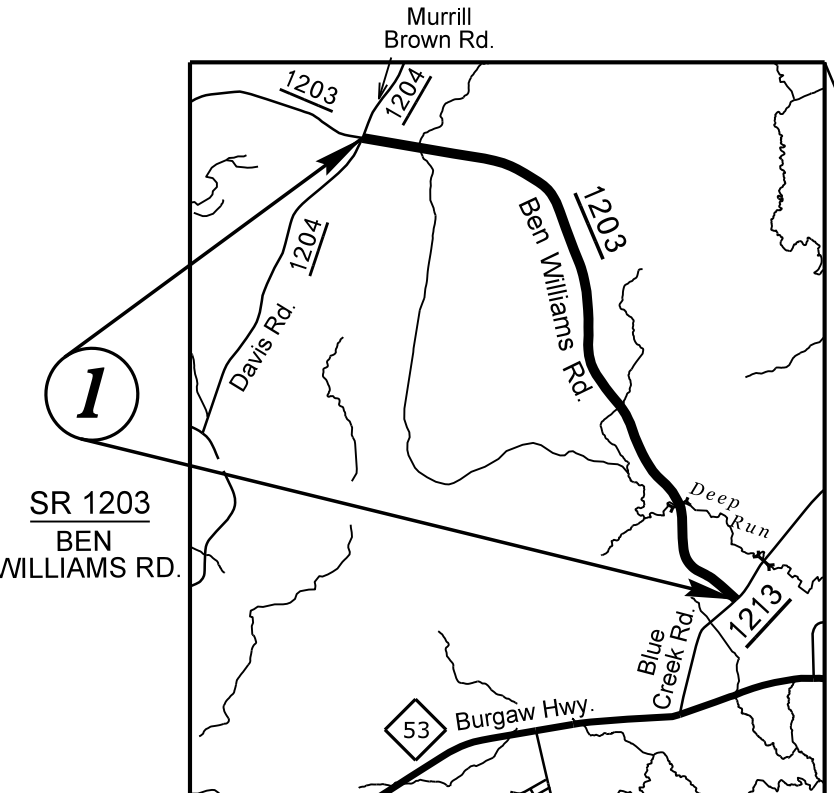


ONSLOW COUNTY

LOCATION: 39 SECTIONS OF SECONDARY ROADS & HAMMOCKS BEACH STATE PARK VISITORS CENTER PARKING LOT

TYPE OF WORK: RESURFACING, THERMOPLASTIC PROFILED PAVEMENT MARKING LINES & PAVEMENT MARKINGS, ETC.

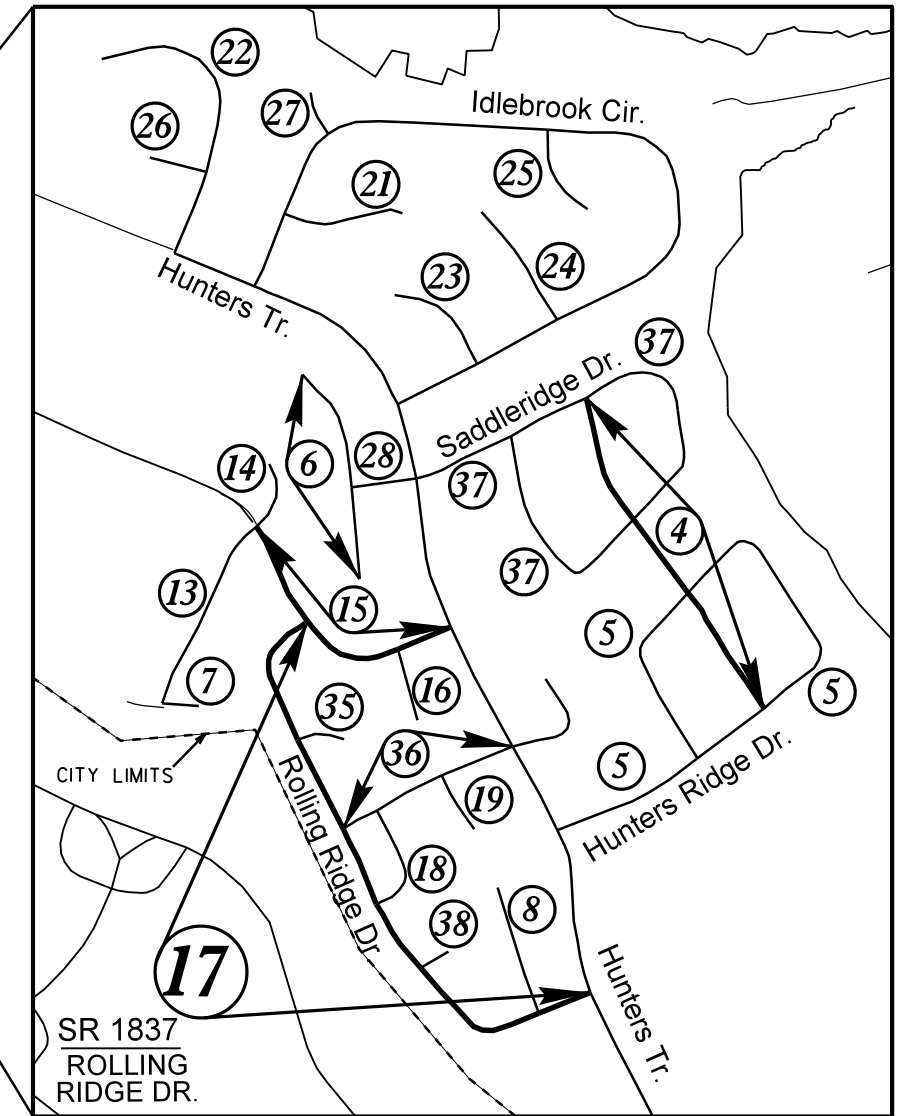
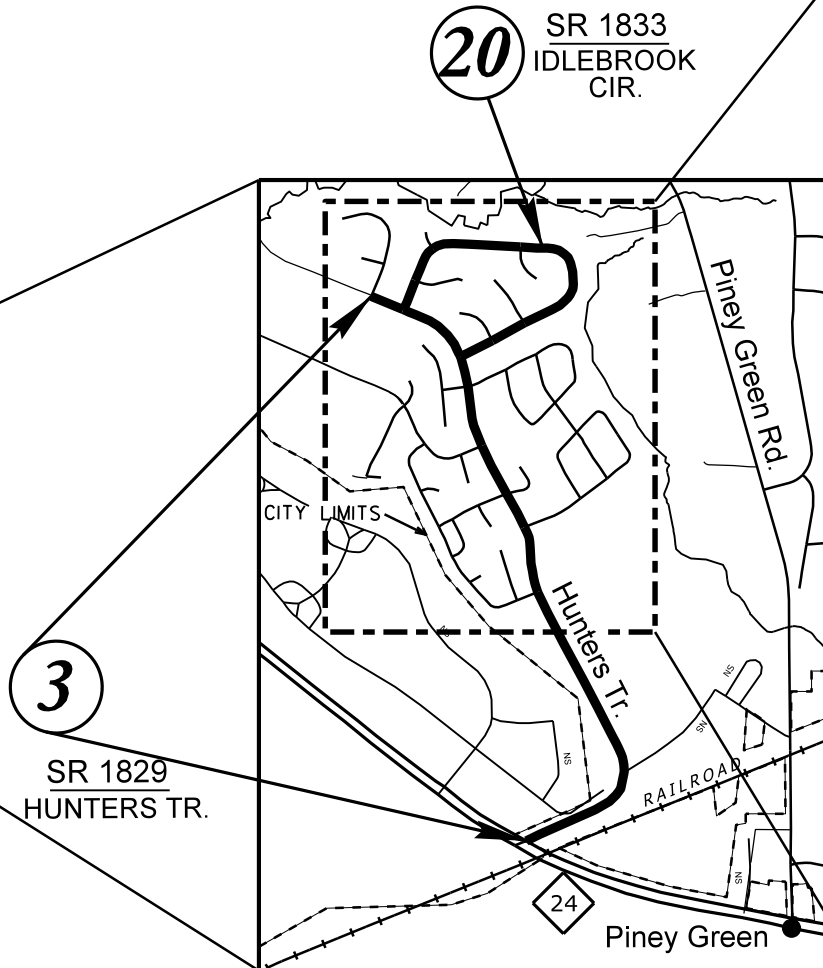


INDEX OF SHEETS	
SHEET NO.	SHEET
1 - 3	INDEX OF SHEETS & TITLE SHEETS
4 - 12	PAVEMENT SCHEDULE, TYPICAL SECTIONS & DETAIL SHEETS
13 - 18	SUMMARY OF QUANTITIES
19	TRAFFIC CONTROL DETAIL

MAPS N.T.S.

02-JUN-2016 07:22
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 \$\$\$SERVERNAME\$\$\$

ONSLOW COUNTY - CONT.



ONSLOW COUNTY

- ④ SR 1831 BRIDLE TR.
- ⑤ SR 1830 HUNTERS RIDGE DR.
- ⑥ SR 1898 LIVE OAK CT.
- ⑦ SR 1865 DARBY ST.
- ⑧ SR 1881 TRAMWAY CT.

- ⑬ SR 1864 NORBRICK ST.
- ⑭ SR 1891 SHADOW MOSS CT.
- ⑮ SR 1836 BROOKFIELD DR.
- ⑯ SR 1890 GLENSIDE CT.
- ⑰ SR 1840 HEATHER LP.
- ⑱ SR 1866 WINE PRESS DR.
- ㉑ SR 1870 TALL PINE CT.
- ㉒ SR 2329 REMINGTON DR.
- ㉓ SR 1834 HONEY TREE CT.

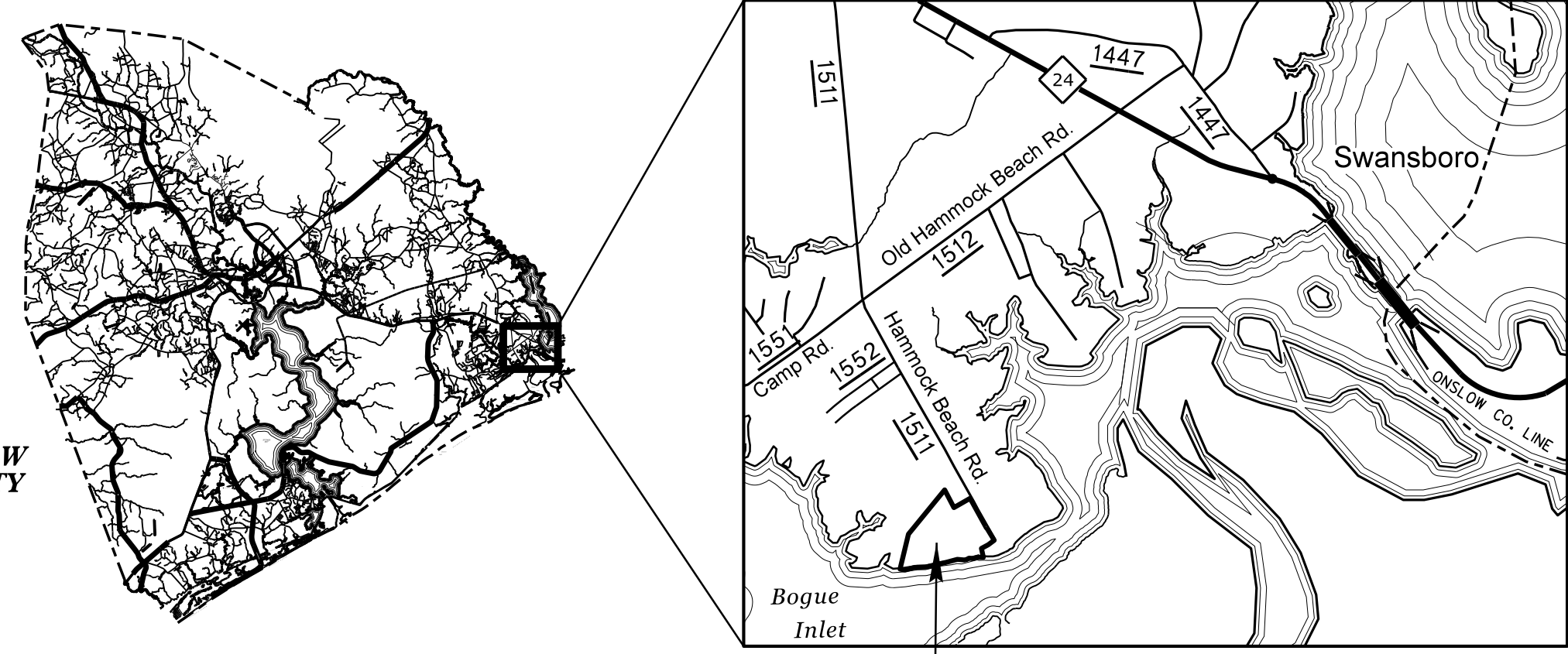
- ㉔ SR 1835 TEAKWOOD PL.
- ㉕ SR 1858 WHITE PINE CT.
- ㉖ SR 2330 BROWNING CT.
- ㉗ SR 1863 SMOKE TREE PL.
- ㉘ SR 1897 SADDLERIDGE DR.
- ㉙ SR 1838 WILLOWCREST CT.
- ㉚ SR 1839 KNOLLWOOD LN.
- ㉛ SR 1832 SADDLERIDGE DR.
- ㉜ SR 1841 GREENSTONE CT.

MAPS N.T.S.

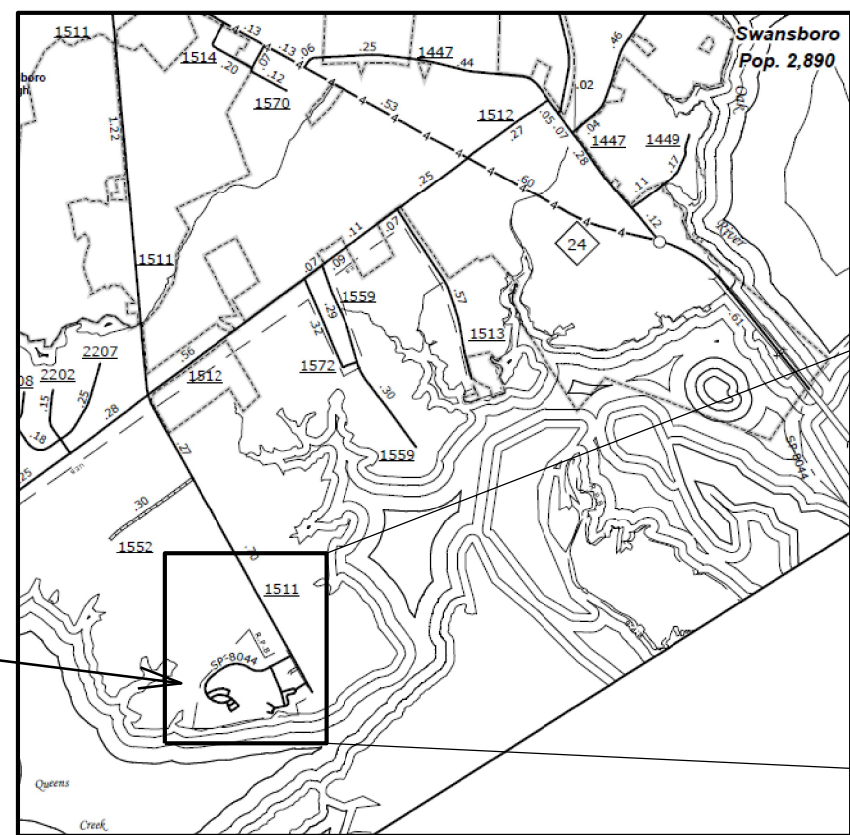
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ONSLOW COUNTY - CONT.

**ONSLOW
COUNTY**

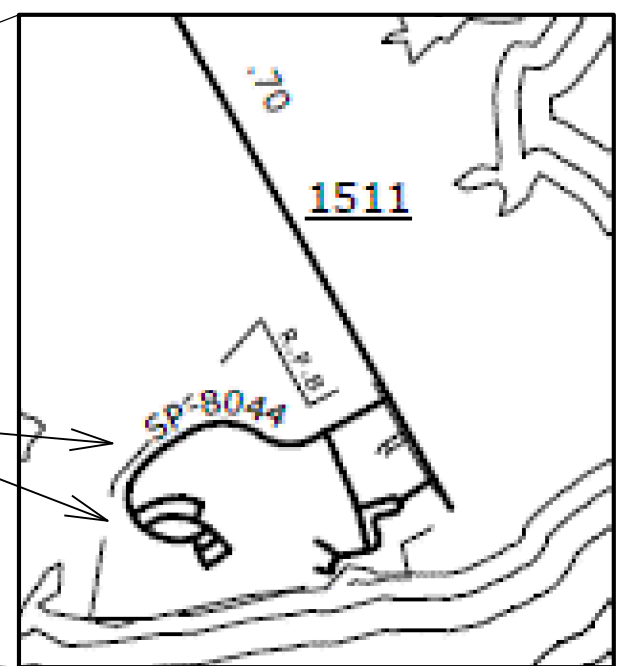


40 Hammocks Beach State Park Visitors Center



Hammocks Beach State Park Visitors Center

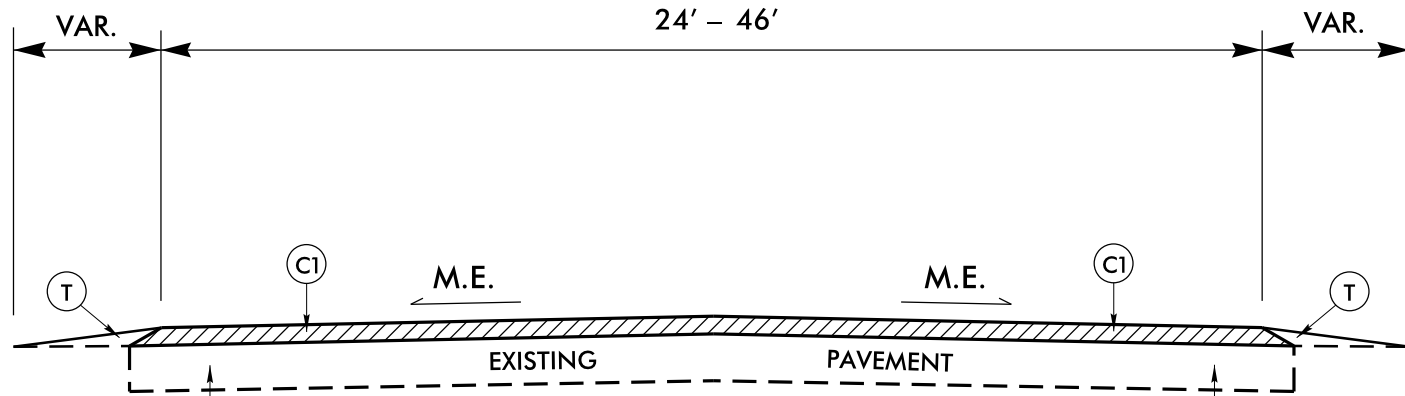
Map 40 - Paving Limits
Park Entrance Road (SP-8044) & Visitors Center Parking Lot



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REVISIONS

8/17/99



PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.

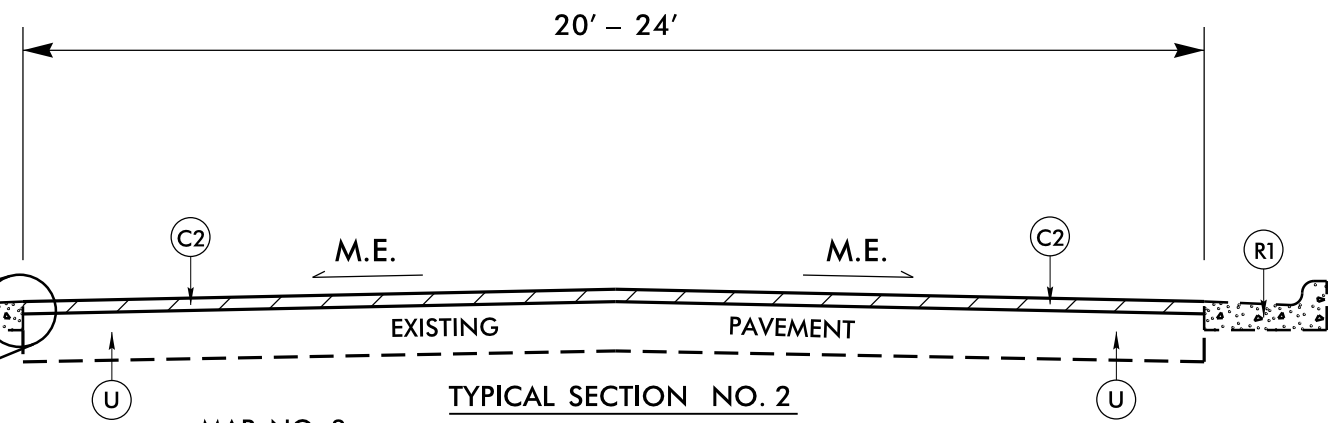
SEE STD. DRAWING 1205.01, SHEET 2 OF 2, TABLE 1 FOR EDGE LINE OFFSETS.

TYPICAL SECTION NO. 1

MAP 2
MP 0.000 - MP 0.053
(TYPICAL FOR BOTH SIDES)
V1 (1.5" MILLING IN 2'-6" C&G - MAP 2 ONLY)

MAP NO. 1
SR 1203 (BEN WILLIAMS RD.)
MP 6.814 - MP 10.494

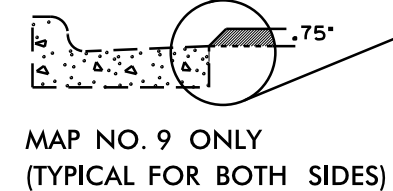
MAP NO. 2
SR 1212 (PONY FARM RD.)
MP 0.053 - MP 1.960



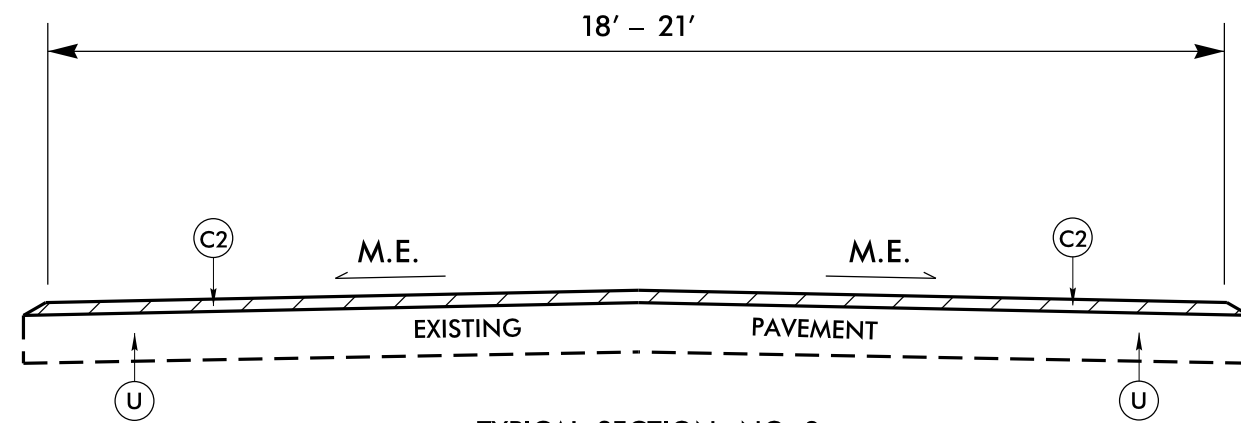
TYPICAL SECTION NO. 2

MAP NO. 3
SR 1829 (HUNTERS TRAIL)
MP 0.000 - MP 0.030
V1 (1.5" MILLING IN 2'-6" C&G - MAP 3 ONLY)

MAP NO. 9
SR 1973 (SADDLE RIDGE CT.)
MP 0.000 - MP 0.097



MAP NO. 9 ONLY
(TYPICAL FOR BOTH SIDES)



TYPICAL SECTION NO. 3

MAP NO. 3
SR 1829 (HUNTERS TRAIL)
MP 0.030 - MP 1.321

MAP NO. 29
SR 2031 (MENDOVER DR.)
MP 0.000 - MP 0.926

MAP NO. 32
SR 2034 (WILTSHIRE CT.)
MP 0.000 - MP 0.233

MAP NO. 22
SR 2329 (REMINGTON DR.)
MP 0.000 - MP 0.227

MAP NO. 30
SR 2032 (THRUSH CT.)
MP 0.000 - MP 0.062

MAP NO. 33
SR 2036 (SISKIN CT.)
MP 0.000 - MP 0.073

MAP NO. 26
SR 2330 (BROWNING CT.)
MP 0.000 - MP 0.043

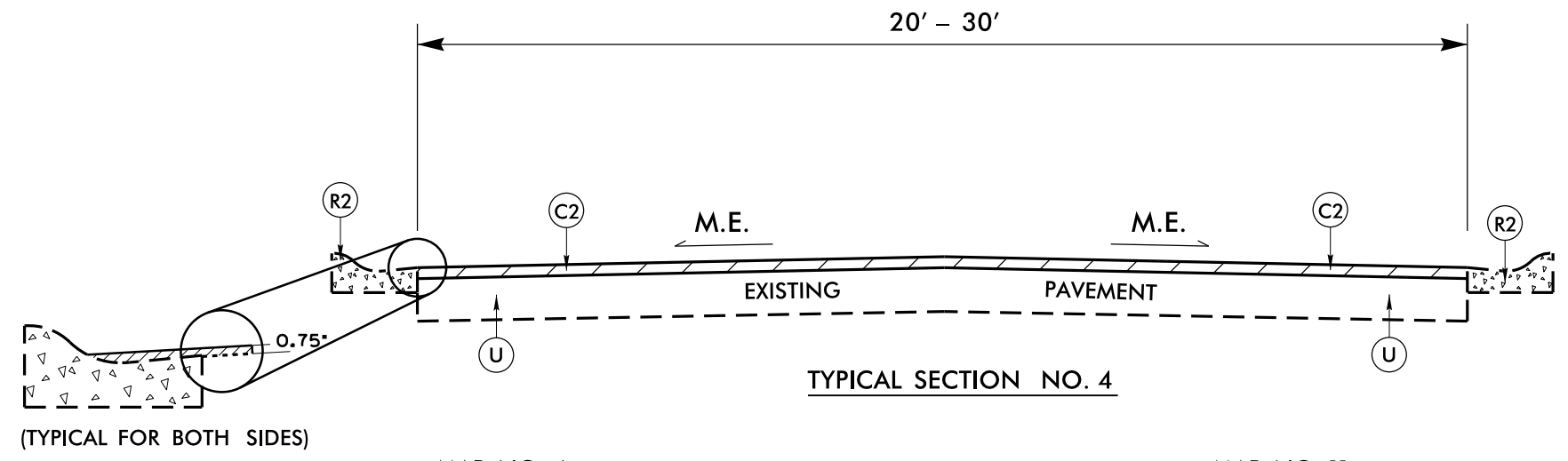
MAP NO. 31
SR 2033 (TANAGER CT.)
MP 0.000 - MP 0.030

MAP NO. 34
SR 2037 (ORIOLE CT.)
MP 0.000 - MP 0.062

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. ¾" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 85 LBS. PER SQ.YD.
C3	PROP. APPROX. ½" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 57 LBS. PER SQ.YD.
R1	EXISTING CONCRETE 2'-6" CURB & GUTTER
R2	EXISTING ROLLED ASPHALT CURB
R3	EXISTING CONCRETE VALLEY CURB
T	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
V1	MILLING ASPHALT PAVEMENT, 1½" DEPTH
V2	MILLING ASPHALT PAVEMENT, 0" - 0.5" DEPTH
U	EXISTING PAVEMENT

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 \$\$\$USERNAME\$\$\$



TYPICAL SECTION NO. 4

MAP NO. 4
SR 1831 (BRIDLE TR.)
MP 0.000 – MP 0.270

MAP NO. 5
SR 1830 (HUNTERS RIDGE DR.)
MP 0.000 – MP 0.548

MAP NO. 6
SR 1898 (LIVE OAK CT.)
MP 0.000 – MP 0.164

MAP NO. 7
SR 1865 (DARBY ST.)
MP 0.000 – MP 0.033

MAP NO. 8
SR 1881 (TRAMWAY CT.)
MP 0.000 – MP 0.098

MAP NO. 10
SR 2017 (BRIDLEWOOD DR.)
MP 0.000 – MP 0.654

MAP NO. 11
SR 2020 (FOAL CT.)
MP 0.000 – MP 0.052

MAP NO. 12
SR 2018 (YEARLING LOOP)
MP 0.000 – MP 0.281

MAP NO. 13
SR 1864 (NORBRICK ST.)
MP 0.000 – MP 0.154

MAP NO. 14
SR 1891 (SHADOW MOSS CT.)
MP 0.000 – MP 0.054

MAP NO. 15
SR 1836 (BROOKFIELD DR.)
MP 0.000 – MP 0.204

MAP NO. 16
SR 1890 (GLENSIDE CT.)
MP 0.000 – MP 0.057

MAP NO. 17
SR 1837 (ROLLING RIDGE DR.)
MP 0.000 – MP 0.448

MAP NO. 18
SR 1840 (HEATHER LOOP)
MP 0.000 – MP 0.083

MAP NO. 19
SR 1866 (WINE PRESS DR.)
MP 0.000 – MP 0.047

MAP NO. 28
SR 1897 (SADDLERIDGE DR.)
MP 0.000 – MP 0.048

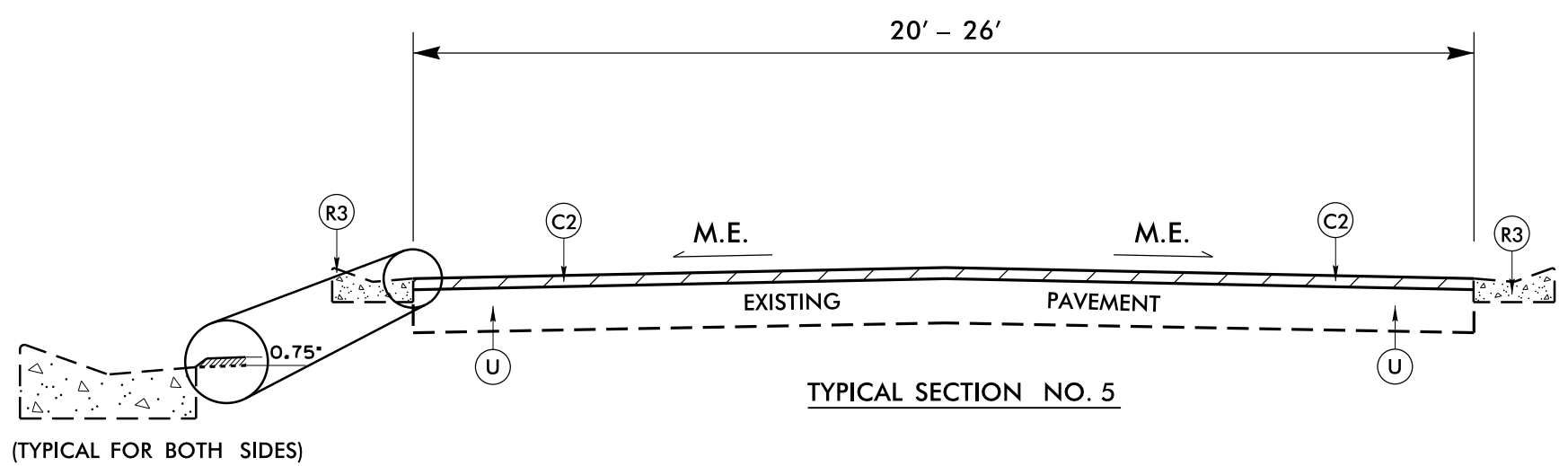
MAP NO. 35
SR 1838 (WILLOWCREST CT.)
MP 0.000 – MP 0.038

MAP NO. 36
SR 1839 (KNOLLWOOD LN.)
MP 0.000 – MP 0.140

MAP NO. 37
SR 1832 (SADDLERIDGE DR.)
MP 0.000 – MP 0.504

MAP NO. 38
SR 1841 (GREENSTONE CT.)
MP 0.000 – MP 0.023

MAP NO. 39
SR 2019 (POMMEL CT.)
MP 0.000 – MP 0.035



TYPICAL SECTION NO. 5

MAP NO. 20
SR 1833 (IDLEBROOK CIR.)
MP 0.000 – MP 0.696

MAP NO. 21
SR 1870 (TALL PINE CT.)
MP 0.000 – MP 0.091

MAP NO. 23
SR 1834 (HONEY TREE CT.)
MP 0.000 – MP 0.089

MAP NO. 24
SR 1835 (TEAKWOOD PL.)
MP 0.000 – MP 0.103

MAP NO. 25
SR 1858 (WHITE PINE CT.)
MP 0.000 – MP 0.076

MAP NO. 27
SR 1863 (SMOKE TREE PL.)
MP 0.000 – MP 0.036

PAVEMENT SCHEDULE	
C2	¾" S4.75A
R2	EXISTING ROLLED ASPHALT CURB
R3	EXISTING CONCRETE VALLEY CURB
U	EXISTING PAVEMENT

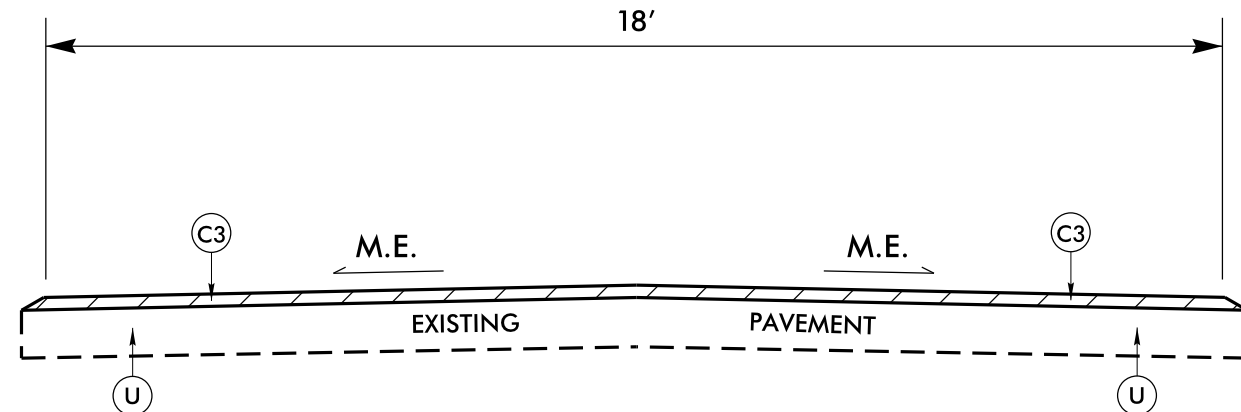
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 \$\$\$SUSPENSE\$\$\$

8/17/99

MAP NO. 40 – HAMMOCKS BEACH STATE PARK

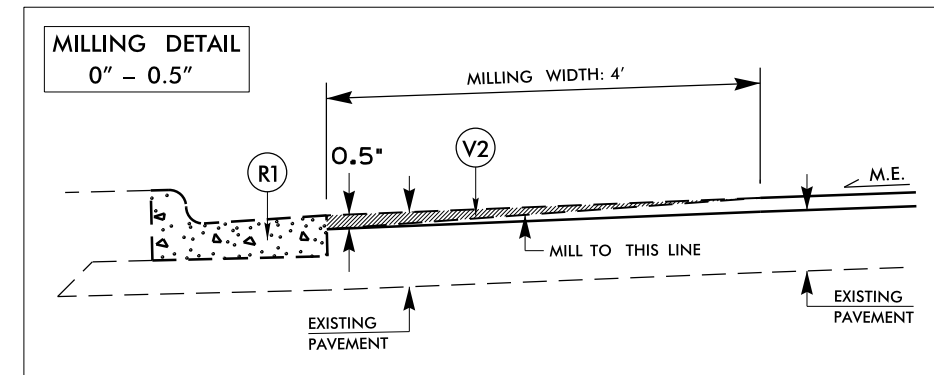
PARK ENTRANCE ROAD & VISITORS CENTER PARKING LOTS

PAVEMENT SCHEDULE	
C3	1/2" S4.75A
R1	EXISTING CONC. 2'-6" C & G
U	EXISTING PAVEMENT
V2	MILLING 0" - 0.5"

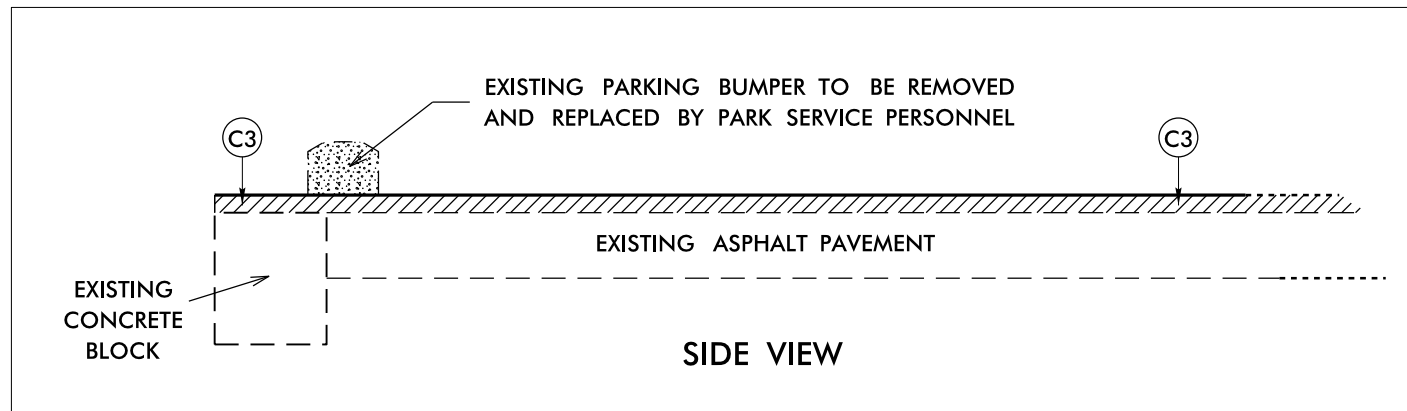


TYPICAL SECTION NO. 6

MAP NO. 40
HAMMOCKS BEACH STATE PARK
ENTRANCE ROAD (SP-8044) TO VISITORS CENTER
MP 0.000 – MP 0.300



VARIABLE MILLING AT 2'6" CURB & GUTTER AND CONCRETE SIDEWALK



PARKING LOT DETAIL – EXISTING PARKING SPACE WITH RESURFACING

ACCESS PARKING SPACE SYMBOL

HEATED-IN-PLACE THERMOPLASTIC
PAVEMENT MARKING FHWA /ADA APPROVED
SYMBOL & BORDER: WHITE /BACKGROUND: BLUE

NOT TO SCALE

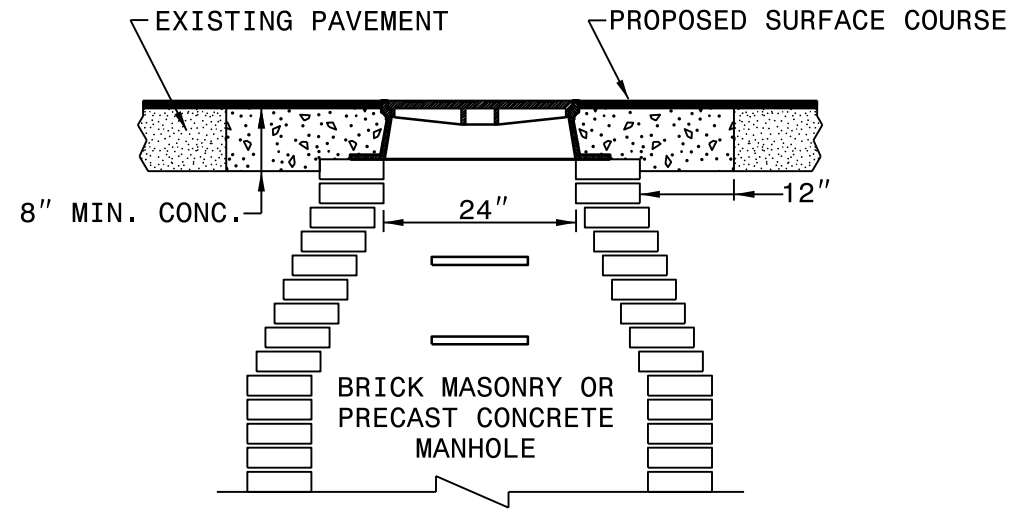
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 \$\$\$SUSPENSE\$\$\$

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

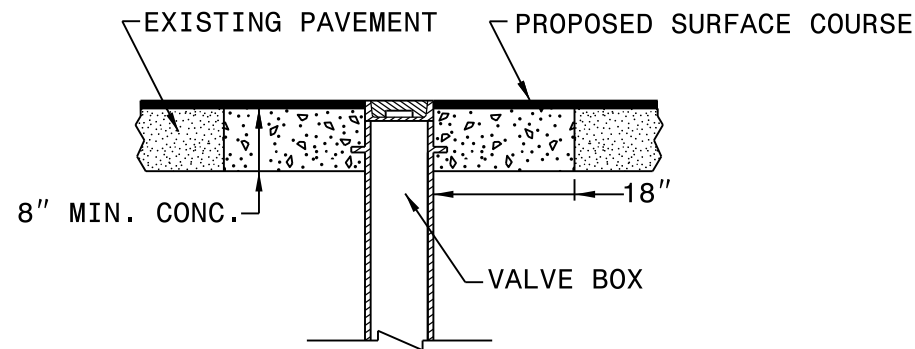
ENGLISH DETAIL DRAWING FOR
MANHOLE AND VALVE BOX ADJUSTMENTS

GENERAL NOTES:

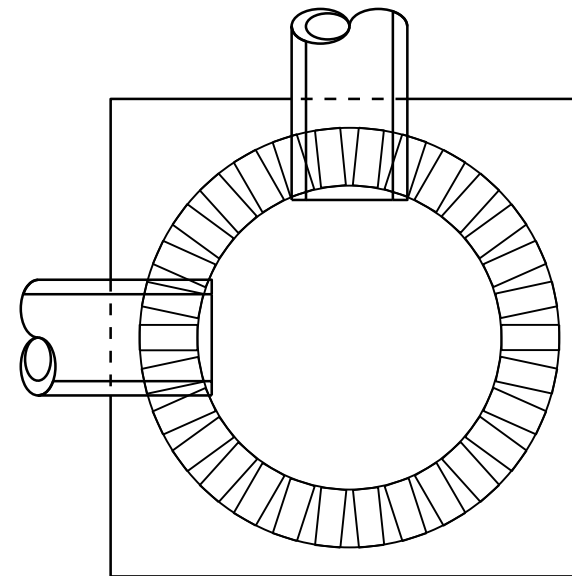
1. USE RAPID SET GROUT, MORTAR, OR CONCRETE THAT WILL TAKE FULL SET AND BECOME LOAD BEARING WITHIN SIXTY MINUTES OF PLACEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
5. MIX MORTAR TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS $\frac{1}{2}$ " \pm $\frac{1}{8}$ "
7. CONSTRUCT AN ASPHALT RAMP IN ACCORDANCE WITH SECTION 858-3 OF THE 2012 STANDARD SPECIFICATIONS.



MANHOLE CONCRETE ENCASEMENT



VALVE BOX CONCRETE ENCASEMENT



ELEVATION VIEW

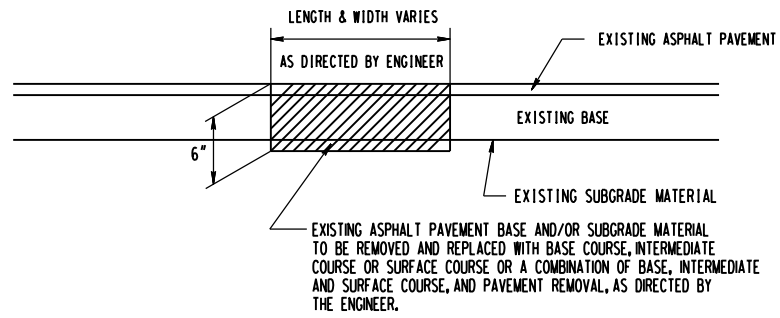
PLACE BRICK ACCORDING TO ELEVATION VIEW

ENGLISH DETAIL DRAWING FOR

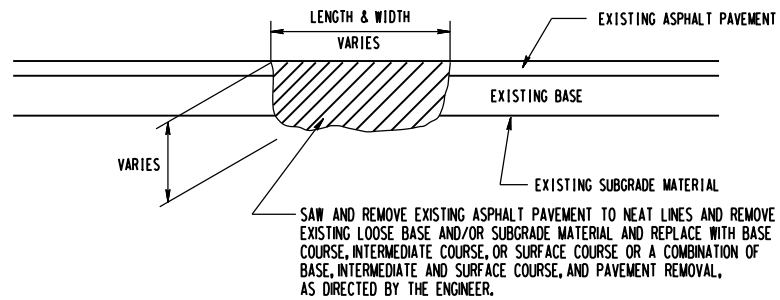
MANHOLE AND VALVE BOX ADJUSTMENTS

REVISIONS

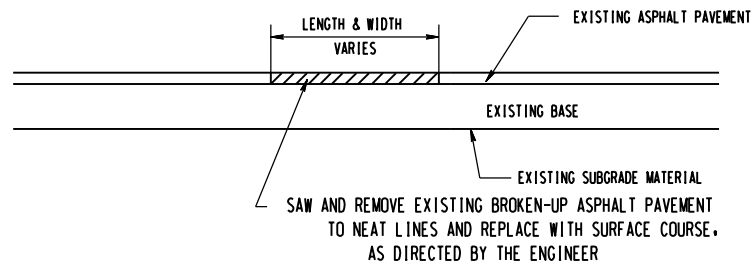
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



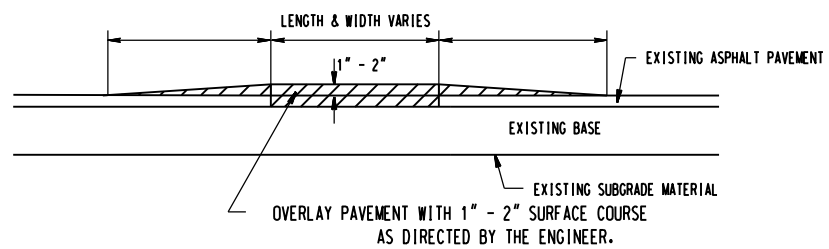
DETAIL NO. 1



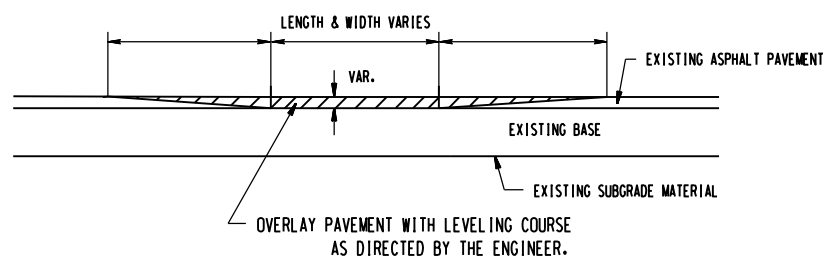
DETAIL NO. 2



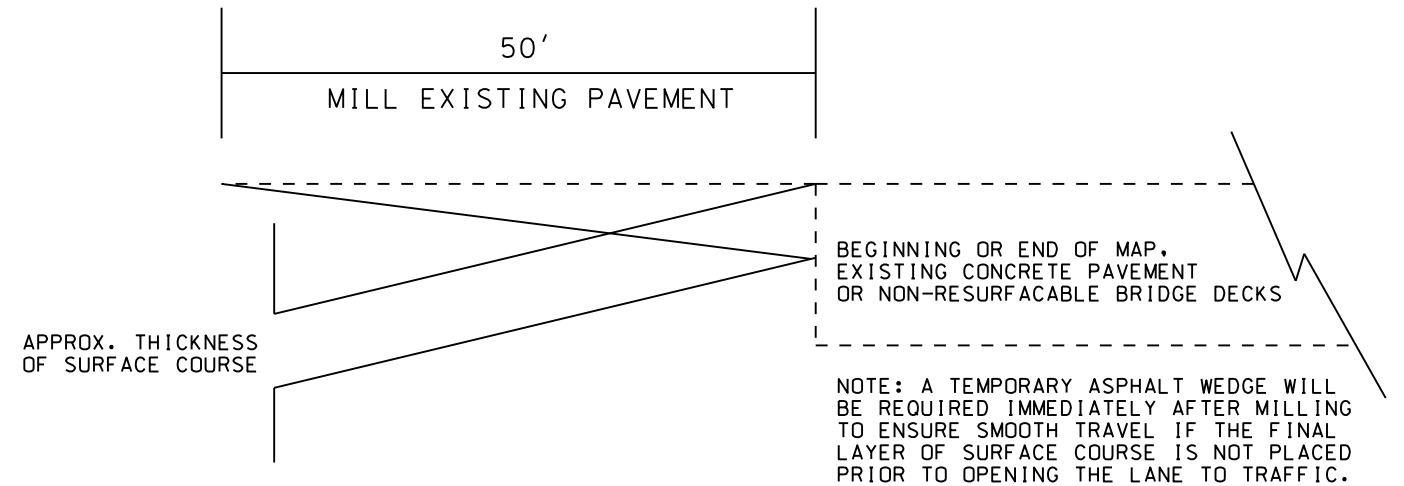
DETAIL NO. 3



DETAIL NO. 4



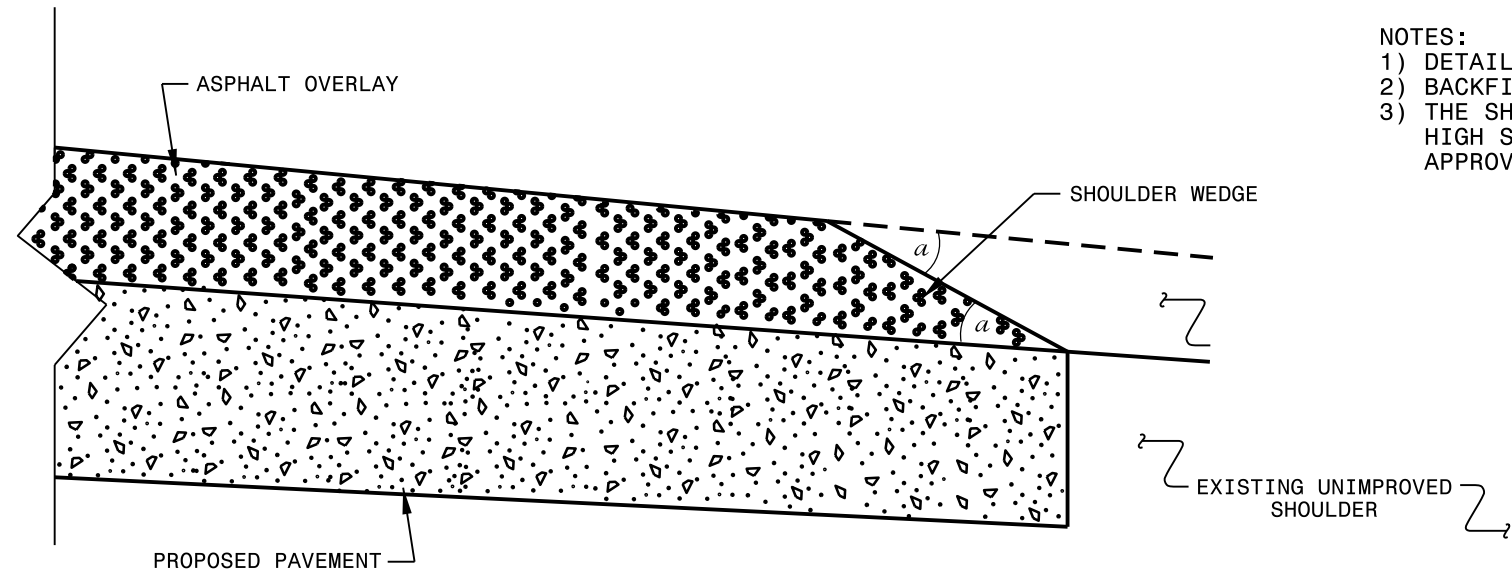
DETAIL NO. 5



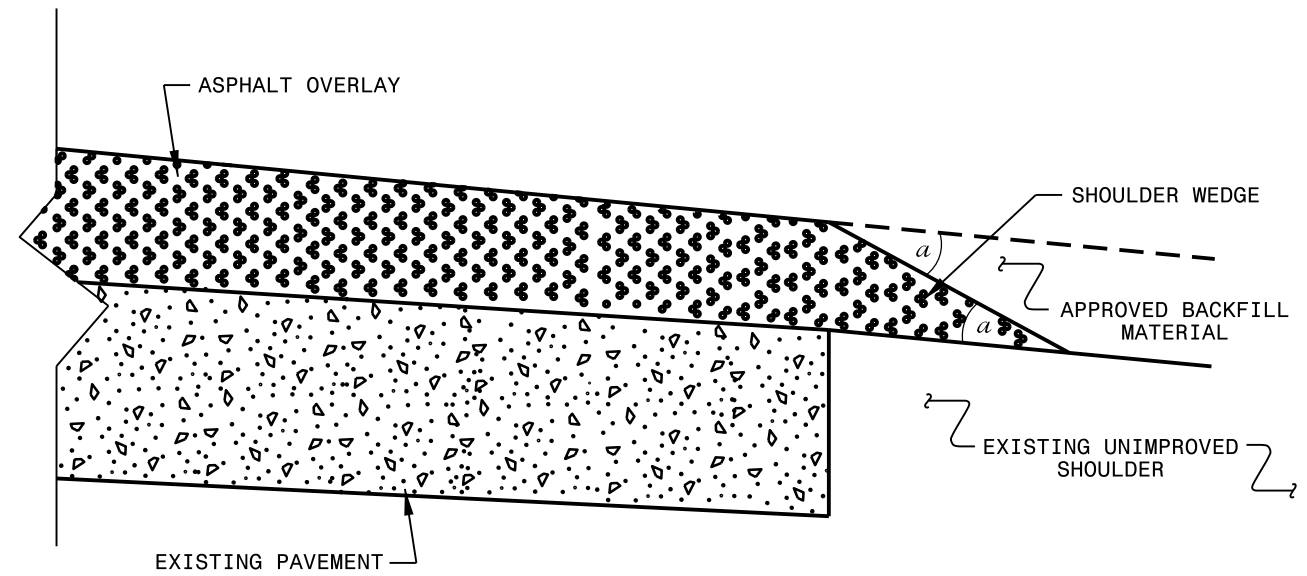
DETAIL FOR INCIDENTAL MILLING:
MAY BE USED AT THE BEGINNING & END OF MAPS
AND AT APPROACH & TRAILING ENDS OF BRIDGES

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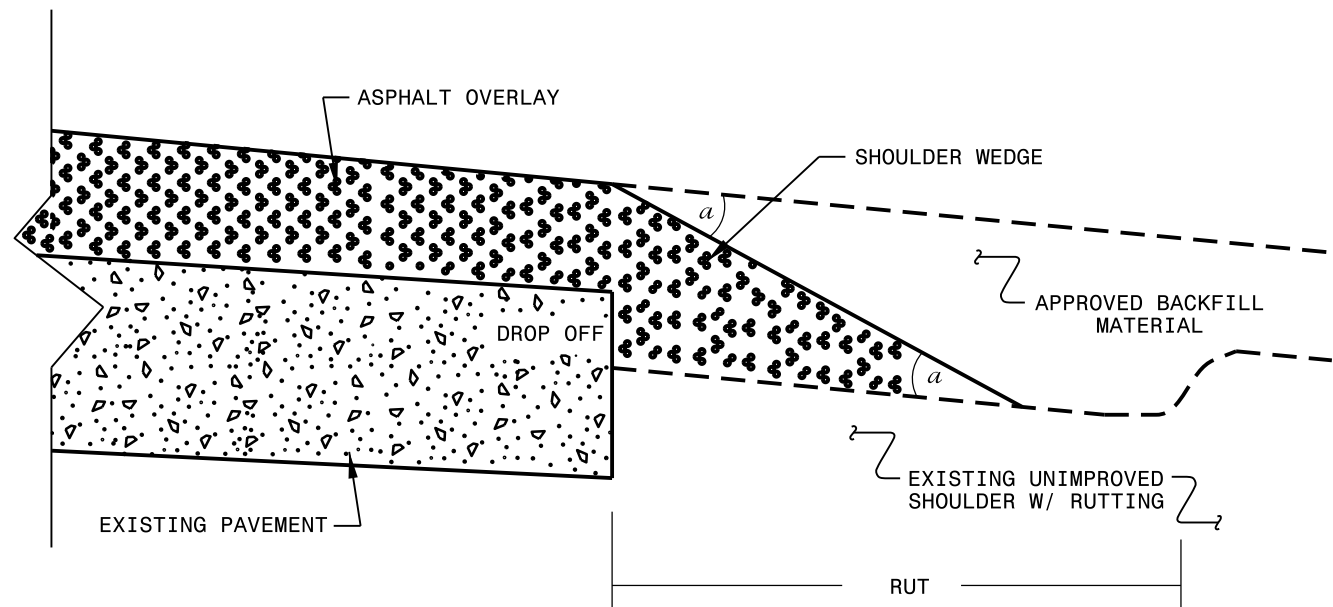
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

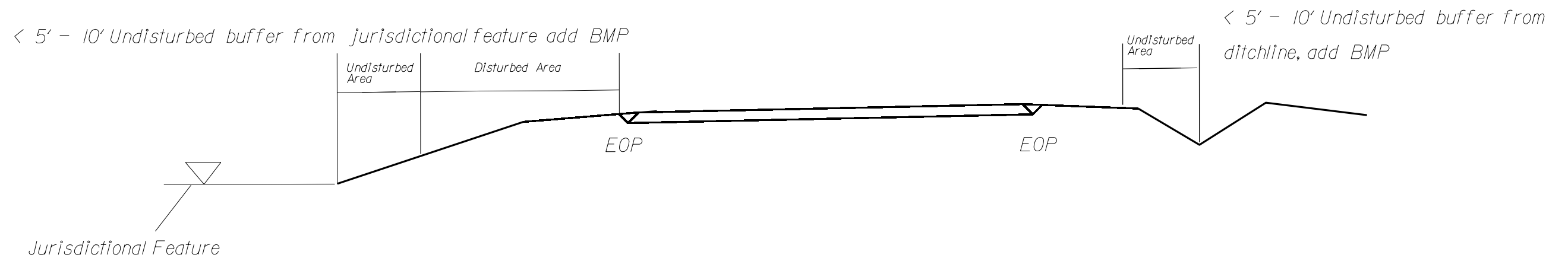
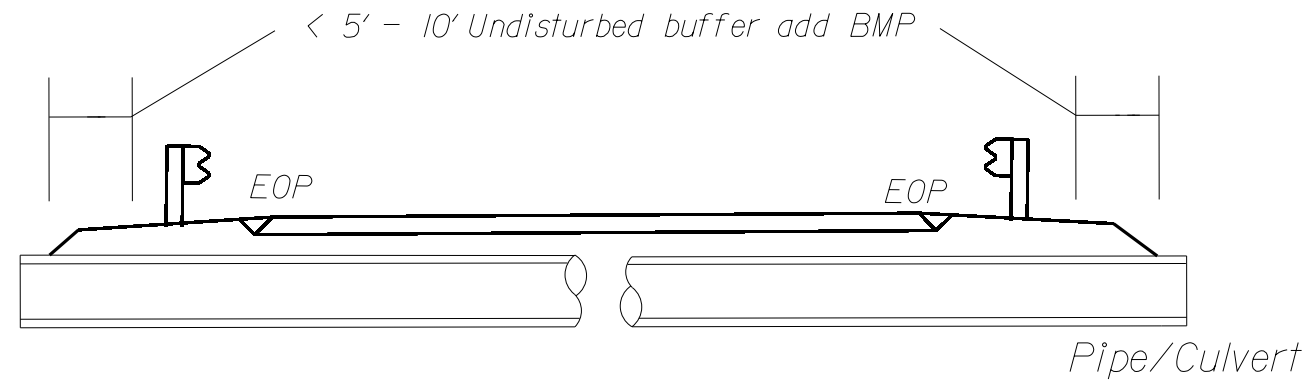
CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SHOULDER WEDGE DETAILS			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 2/2/16		
CHECKED BY:	DATE:		
FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn			

SYSTEMS DESIGN
 USER NAME

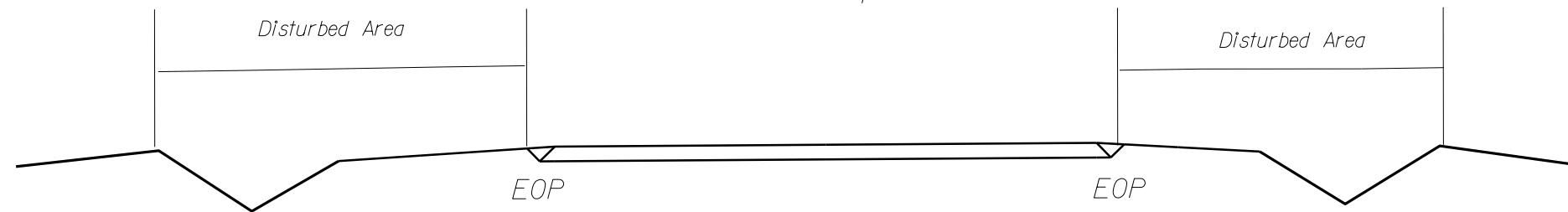
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

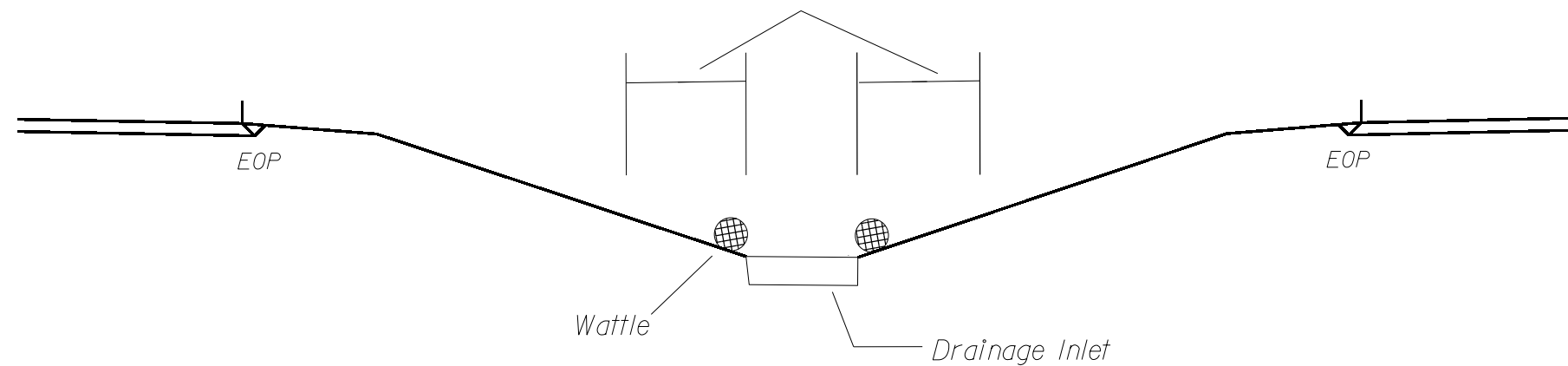
EROSION CONTROL DETAIL



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



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



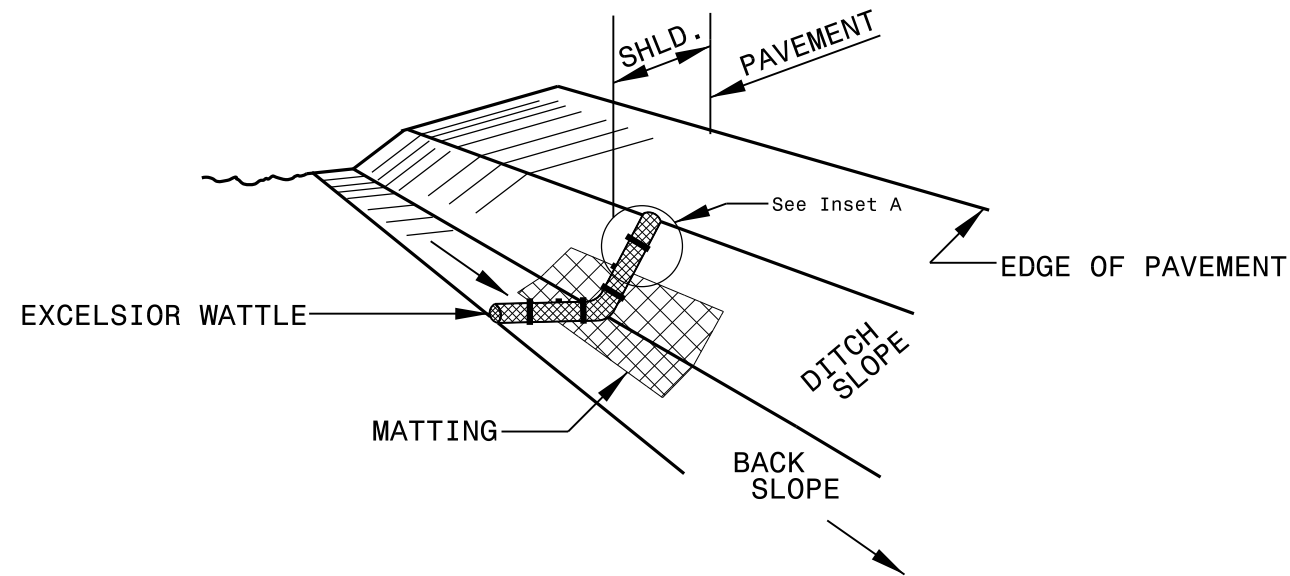
NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

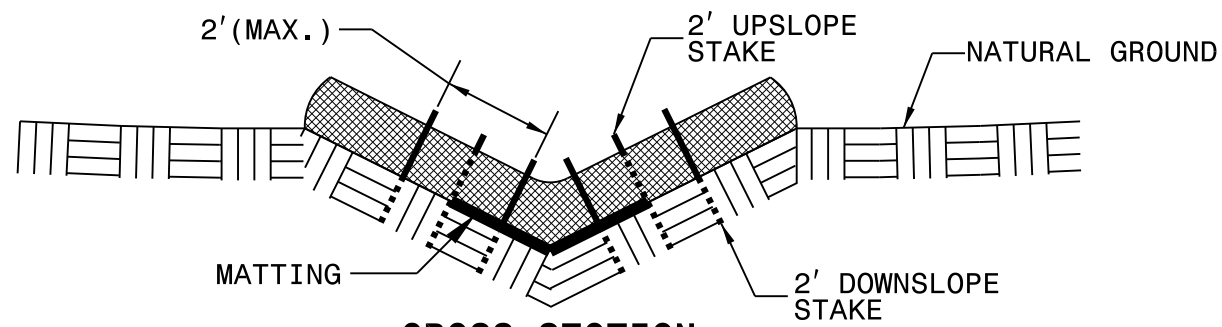
SOIL STABILIZATION TIMEFRAMES

<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.

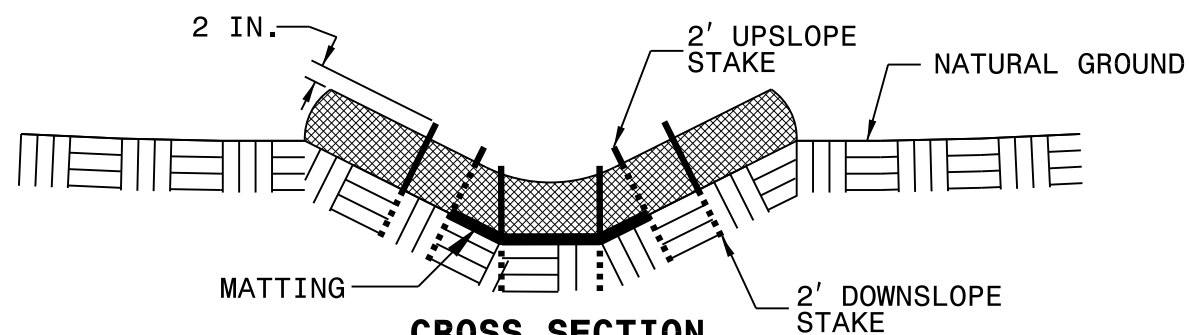
WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

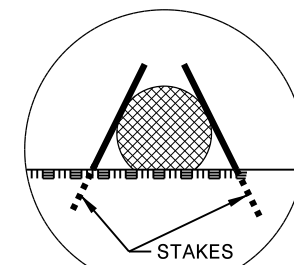
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

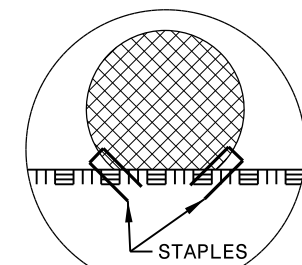
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

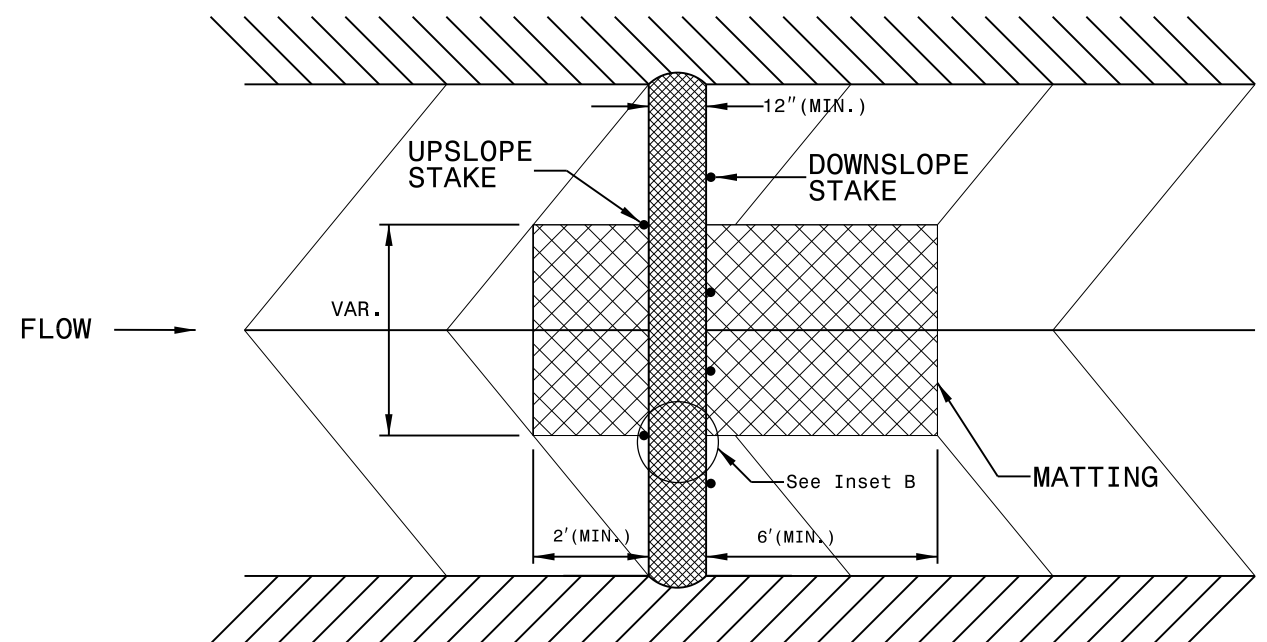
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



TOP VIEW

PROJECT NO.	SHEET NO.
2016CPT.03.38.20671, Etc.	13

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	BORROW EXC. CY	INC. STONE BASE TONS	SHOULDER RECONST. SMI	1 1/2" MILLING SY	0"-0.5" MILLING SY	INC. MILLING SY	SURFACE COURSE, S9.5B TONS	ACSC TYPE S 4.75A TONS	ASPHALT BINDER FOR PLANT MIX TON	PATCHING EXISTING PAVEMENT (FULL DEPTH) TON	PATCHING EXISTING PAVEMENT (MILL) TON	ADJ. OF DROP INLET EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	TEMP. SILT FENCE LF	
2016CPT.03.38.20671	Onslow	1	SR 1203 (BEN WILLIAMS RD.)	FROM SR 1204 TO SR 1213 (MP 6.814 - 10.494)	1	2	2WD	NO	NO	3.68	24	338	35	7.36			336	4,594		276	10	400				740	
TOTAL FOR MAP NO. 1										3.68		338	35	7.36			336	4,594		276	10	400				740	
2016CPT.03.38.20671	Onslow	2	SR 1212 (PONY FARM RD.)	FROM US 258 TO PAVEMENT SEAM NORTH OF SOUTHERN END OF SR 1279 (HARRELLS LOOP RD.) MP 0.000 - 1.960	1	2	2WD	NO	NO	1.96	24 - 46	176	30	3.87	1,360		355	2,447		147	15	400				196	
TOTAL FOR MAP NO. 2										1.96		176	30	3.87	1,360		355	2,447		147	15	400				196	
2016CPT.03.38.20671	Onslow	3	SR 1829 (HUNTERS TRAIL)	FROM NC 24 TO SR 2329 (MP 0.000 - 1.321)	2 & 3	2	2WU	NO	NO	1.321	20				275		75		643	44		150	2		1		
TOTAL FOR MAP NO. 3										1.321					275		75		643	44		150	2		1		
2016CPT.03.38.20671	Onslow	4	SR 1831 (BRIDLE TRAIL)	FROM SR 1830 TO SR 1832 (MP 0.000 - 0.270)	4	2	2WU	NO	NO	0.27	26								171	12		80		3	2		
TOTAL FOR MAP NO. 4										0.27									171	12		80		3	2		
2016CPT.03.38.20671	Onslow	5	SR 1830 (HUNTERS RIDGE DRIVE)	FROM SR 1829 TO SR 1830 (MP 0.000 - 0.548)	4	2	2WU	NO	NO	0.548	26								346	24		150		12	6		
TOTAL FOR MAP NO. 5										0.548									346	24		150		12	6		
2016CPT.03.38.20671	Onslow	6	SR 1898 (LIVE OAK COURT)	FROM CUL-DE-SAC TO CUL-DE-SAC (MP 0.000 - 0.164)	4	2	2WU	NO	NO	0.164	26								109	7		75		4			
TOTAL FOR MAP NO. 6										0.164									109	7		75		4			
2016CPT.03.38.20671	Onslow	7	SR 1865 (DARBY STREET)	FROM SR 1864 TO CUL-DA-SAC (MP 0.000 - 0.033)	4	2	2WU	NO	NO	0.033	26								26	2		30		3	2		
TOTAL FOR MAP NO. 7										0.033									26	2		30		3	2		
2016CPT.03.38.20671	Onslow	8	SR 1881 (TRAMWAY COURT)	FROM SR 1837 TO CUL-DA-SAC (MP 0.000 - 0.098)	4	2	2WU	NO	NO	0.98	20								482	33		60		1	1		
TOTAL FOR MAP NO. 8										0.98									482	33		60		1	1		
TOTAL FOR PROJ NO. 2016CPT.03.38.20671										8.956		514	65	11.23	1,635			766	7,041	1,777	545	25	1,345	2	23	12	936
2016CPT.03.32.20672	Onslow	9	SR 1973 (SADDLE RIDGE COURT)	FROM SR 1974 TO CUL-DA-SAC (MP 0.000 - 0.097)	2	2	2WU	NO	NO	0.097	24								62	4				2			
TOTAL FOR MAP NO. 9										0.097									62	4				2			
2016CPT.03.32.20672	Onslow	10	SR 2017 (BRIDLEWOOD DRIVE)	FROM SR 1308 TO CUL-DA-SAC (MP 0.000 - 0.654)	4	2	2WU	NO	NO	0.654	24								387	26							
TOTAL FOR MAP NO. 10										0.654									387	26							
2016CPT.03.32.20672	Onslow	11	SR 2020 (FOAL COURT)	FROM SR 2017 TO CUL-DA-SAC (MP 0.000 - 0.052)	4	2	2WU	NO	NO	0.052	24								36	2					2		
TOTAL FOR MAP NO. 11										0.052									36	2					2		
2016CPT.03.32.20672	Onslow	12	SR 2018 (YEARLING LOOP)	FROM SR 2017 TO SR 2017 (MP 0.000 - 0.281)	4	2	2WU	NO	NO	0.281	24								164	11							
TOTAL FOR MAP NO. 12										0.281									164	11							
2016CPT.03.32.20672	Onslow	13	SR 1864 (NORBRICK STREET)	FROM SR 1891 TO SR 1865 (MP 0.000 - 0.154)	4	2	2WU	NO	NO	0.154	26								97	7				2			
TOTAL FOR MAP NO. 13										0.154									97	7				2			
2016CPT.03.32.20672	Onslow	14	SR 1891 (SHADOW MOSS COURT)	FROM SR 1864 TO CUL-DA-SAC (MP 0.000 - 0.054)	4	2	2WU	NO	NO	0.054	20								32	2				2	2		
TOTAL FOR MAP NO. 14										0.054									32	2				2	2		
2016CPT.03.32.20672	Onslow	15	SR 1836 (BROOKFIELD DRIVE)	FROM SR 1829 TO SR 1864 (MP 0.000 - 0.204)	4	2	2WU	NO	NO	0.204	30								149	10				5			
TOTAL FOR MAP NO. 15										0.204									149	10				5			
2016CPT.03.32.20672	Onslow	16	SR 1890 (GLENSIDE COURT)	FROM SR 1836 TO CUL-DA-SAC (MP 0.000 - 0.057)	4	2	2WU	NO	NO	0.057	20								33	2				4			
TOTAL FOR MAP NO. 16										0.057									33	2				4			
2016CPT.03.32.20672	Onslow	17	SR 1837 (ROLLING RIDGE DRIVE)	FROM SR 1836 TO SR 1829 (MP 0.000 - 0.448)	4	2	2WU	NO	NO	0.448	26								283	19				12	2		
TOTAL FOR MAP NO. 17										0.448									283	19				12	2		
2016CPT.03.32.20672	Onslow	18	SR 1840 (HEATHER LOOP)	FROM SR 1837 TO SR 1839 (MP 0.000 - 0.083)	4	2	2WU	NO	NO	0.083	26								52	4				3			
TOTAL FOR MAP NO. 18										0.083									52	4				3			
2016CPT.03.32.20672	Onslow	19	SR 1866 (WINE PRESS DRIVE)	FROM SR 1839 TO CUL-DA-SAC (MP 0.000 - 0.047)	4	2	2WU	NO	NO	0.047	26								35	2				1	1		
TOTAL FOR MAP NO. 19										0.047									35	2				1	1		
2016CPT.03.32.20672	Onslow	20	SR 1833 (IDLEBROOK CIRCLE)	FROM SR 1829 TO SR 1829 (MP 0.000 - 0.696)	5	2	2WU	NO	NO	0.696	26								440	30				20	2		
TOTAL FOR MAP NO. 20										0.696									440	30				20	2		

PROJECT NO.	SHEET NO.
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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	BORROW EXC. CY	INC. STONE BASE TONS	SHOULDER RECONST. SMI	1 1/2" MILLING SY	0"-0.5" MILLING SY	INC. MILLING SY	SURFACE COURSE, S9.5B TONS	ACSC TYPE S 4.75A TONS	ASPHALT BINDER FOR PLANT MIX TON	PATCHING EXISTING PAVEMENT (FULL DEPTH) TON	PATCHING EXISTING PAVEMENT (MILL) TON	ADJ. OF DROP INLET EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	TEMP. SILT FENCE LF				
2016CPT.03.32.20672	Onslow	21	SR 1870 (TALL PINE COURT)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.091)		5	2	2WU	NO	0.091	20								50		3				2	1				
TOTAL FOR MAP NO. 21										0.091									50		3				2	1				
2016CPT.03.32.20672	Onslow	22	SR 2329 (REMINGTON DRIVE)	FROM SR 1829 TO CUL-DA-SAC (MP 0.000 - 0.227)		3	2	2WU	NO	0.227	18								105		7					2				
TOTAL FOR MAP NO. 22										0.227									105		7						2			
2016CPT.03.32.20672	Onslow	23	SR 1834 (HONEY TREE COURT)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.089)		5	2	2WU	NO	0.089	26								62		4				2	2				
TOTAL FOR MAP NO. 23										0.089									62		4				2	2				
2016CPT.03.32.20672	Onslow	24	SR 1835 (TEAKWOOD PL.)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.103)		5	2	2WU	NO	0.103	26								70		5				2	2				
TOTAL FOR MAP NO. 24										0.103									70		5				2	2				
2016CPT.03.32.20672	Onslow	25	SR 1858 (WHITE PINE COURT)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.076)		5	2	2WU	NO	0.076	26								53		4				3	4				
TOTAL FOR MAP NO. 25										0.076									53		4				3	4				
2016CPT.03.32.20672	Onslow	26	SR 2330 (BROWNING COURT)	FROM SR 2329 TO CUL-DA-SAC (MP 0.000 - 0.043)		3	2	2WU	NO	0.043	18								24		2					1				
TOTAL FOR MAP NO. 26										0.043									24		2					1				
2016CPT.03.32.20672	Onslow	27	SR 1863 (SMOKE TREE PLACE)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.036)		5	2	2WU	NO	0.036	26								28		2				1	2				
TOTAL FOR MAP NO. 27										0.036									28		2				1	2				
2016CPT.03.32.20672	Onslow	28	SR 1897 (SADDLERIDGE DRIVE)	FROM SR 1829 TO SR 1898 (MP 0.000 - 0.048)		4	2	2WU	NO	0.048	26								30		2				1	1				
TOTAL FOR MAP NO. 28										0.048									30		2				1	1				
2016CPT.03.32.20672	Onslow	29	SR 2031 (MENDOVER DRIVE)	FROM SR 1308 TO SR 2037 (MP 0.000 - 0.926)		3	2	2WU	NO	0.926	21								473		32									
TOTAL FOR MAP NO. 29										0.926									473		32									
2016CPT.03.32.20672	Onslow	30	SR 2032 (THRUSH COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.062)		3	2	2WU	NO	0.062	18								32		2									
TOTAL FOR MAP NO. 30										0.062									32		2									
2016CPT.03.32.20672	Onslow	31	SR 2033 (TANAGER CT.)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.030)		3	2	2WU	NO	0.03	18								18		1					2				
TOTAL FOR MAP NO. 31										0.03									18		1					2				
2016CPT.03.32.20672	Onslow	32	SR 2034 (WILTSHIRE COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.233)		3	2	2WU	NO	0.233	20								119		8					2				
TOTAL FOR MAP NO. 32										0.233									119		8					2				
2016CPT.03.32.20672	Onslow	33	SR 2036 (SISKIN COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.073)		3	2	2WU	NO	0.073	18								37		3									
TOTAL FOR MAP NO. 33										0.073									37		3									
2016CPT.03.32.20672	Onslow	34	SR 2037 (ORIOLE COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.062)		3	2	2WU	NO	0.062	18								32		2									
TOTAL FOR MAP NO. 34										0.062									32		2									
2016CPT.03.32.20672	Onslow	35	SR 1838 (WILLOWCREST COURT)	FROM SR 1837 TO CUL-DA-SAC (MP 0.000 - 0.038)		4	2	2WU	NO	0.038	26								29		2				1	2				
TOTAL FOR MAP NO. 35										0.038									29		2				1	2				
2016CPT.03.32.20672	Onslow	36	SR 1839 (KNOLLWOOD LANE)	FROM SR 1837 TO SR 1829 (MP 0.000 - 0.140)		4	2	2WU	NO	0.14	26								89		6				1	1				
TOTAL FOR MAP NO. 36										0.14									89		6				1	1				
2016CPT.03.32.20672	Onslow	37	SR 1832 (SADDLERIDGE DRIVE)	FROM SR 1829 TO SR 1832 (MP 0.000 - 0.504)		4	2	2WU	NO	0.504	26								319		22				1	1				
TOTAL FOR MAP NO. 37										0.504									319		22				1	1				
2016CPT.03.32.20672	Onslow	38	SR 1841 (GREENSTONE COURT)	FROM SR 1837 TO CUL-DA-SAC (MP 0.000 - 0.023)		4	2	2WU	NO	0.023	26								20		1				1	1				
TOTAL FOR MAP NO. 38										0.023									20		1				1	1				
2016CPT.03.32.20672	Onslow	39	SR 2019 (POMMEL COURT)	FROM SR 2017 TO CUL-DA-SAC (MP 0.000 - 0.035)		4	2	2WU	NO	0.035	24								26		2									
TOTAL FOR MAP NO. 39										0.035									26		2									
TOTAL FOR PROJ NO. 2016CPT.03.32.20672										5.666									3,386		229						66	33		
30001.22	Onslow	40	HAMMOCKS BEACH STATE PARK	VISITORS PARKING LOT & ENTRANCE ROAD		6	2	2WU	NO	0.65	18																			
TOTAL FOR MAP NO. 40										0.65																				
TOTAL FOR PROJ NO. 30001.22										0.65																				
GRAND TOTAL										15.272			514	65	11.23	1,635	1,283	786	7,041	5,541	800	25	1,345	2	89	45	936			

PROJECT NO.	SHEET NO.
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SUMMARY OF QUANTITIES

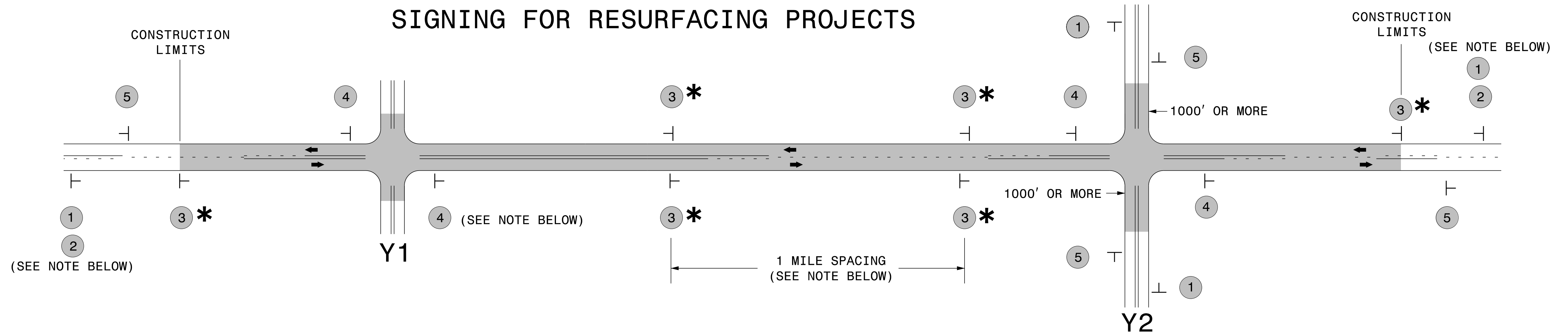
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	STONE FOR EC CLASS B TON	SEDIMENT CONTROL STONE TON	TEMP. MULCHING ACR	SEED FOR TEMP. SEEDING LBS	FERTILIZER FOR TEMP. SEEDING TON	MATTING FOR EROSION CONTROL SY	1/4" HARDWARE CLOTH LF	WATTLE LF	SEED & MULCHING AC	SEED FOR REPAIR SEEDING LB	FERTILIZER FOR REPAIR SEEDING TON	RESPONSE FOR EROSION CONTROL EA
2016CPT.03.32.20672	Onslow	21	SR 1870 (TALL PINE COURT)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.091)	5	2	2WU	NO												
TOTAL FOR MAP NO. 21																				
2016CPT.03.32.20672	Onslow	22	SR 2329 (REMINGTON DRIVE)	FROM SR 1829 TO CUL-DA-SAC (MP 0.000 - 0.227)	3	2	2WU	NO												
TOTAL FOR MAP NO. 22																				
2016CPT.03.32.20672	Onslow	23	SR 1834 (HONEY TREE COURT)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.089)	5	2	2WU	NO												
TOTAL FOR MAP NO. 23																				
2016CPT.03.32.20672	Onslow	24	SR 1835 (TEAKWOOD PL.)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.103)	5	2	2WU	NO												
TOTAL FOR MAP NO. 24																				
2016CPT.03.32.20672	Onslow	25	SR 1858 (WHITE PINE COURT)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.076)	5	2	2WU	NO												
TOTAL FOR MAP NO. 25																				
2016CPT.03.32.20672	Onslow	26	SR 2330 (BROWNING COURT)	FROM SR 2329 TO CUL-DA-SAC (MP 0.000 - 0.043)	3	2	2WU	NO												
TOTAL FOR MAP NO. 26																				
2016CPT.03.32.20672	Onslow	27	SR 1863 (SMOKE TREE PLACE)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.036)	5	2	2WU	NO												
TOTAL FOR MAP NO. 27																				
2016CPT.03.32.20672	Onslow	28	SR 1897 (SADDLERIDGE DRIVE)	FROM SR 1829 TO SR 1898 (MP 0.000 - 0.048)	4	2	2WU	NO												
TOTAL FOR MAP NO. 28																				
2016CPT.03.32.20672	Onslow	29	SR 2031 (MENDOVER DRIVE)	FROM SR 1308 TO SR 2037 (MP 0.000 - 0.926)	3	2	2WU	NO												
TOTAL FOR MAP NO. 29																				
2016CPT.03.32.20672	Onslow	30	SR 2032 (THRUSH COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.062)	3	2	2WU	NO												
TOTAL FOR MAP NO. 30																				
2016CPT.03.32.20672	Onslow	31	SR 2033 (TANAGER CT.)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.030)	3	2	2WU	NO												
TOTAL FOR MAP NO. 31																				
2016CPT.03.32.20672	Onslow	32	SR 2034 (WILTSHIRE COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.233)	3	2	2WU	NO												
TOTAL FOR MAP NO. 32																				
2016CPT.03.32.20672	Onslow	33	SR 2036 (SISKIN COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.073)	3	2	2WU	NO												
TOTAL FOR MAP NO. 33																				
2016CPT.03.32.20672	Onslow	34	SR 2037 (ORIOLE COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.062)	3	2	2WU	NO												
TOTAL FOR MAP NO. 34																				
2016CPT.03.32.20672	Onslow	35	SR 1838 (WILLOWCREST COURT)	FROM SR 1837 TO CUL-DA-SAC (MP 0.000 - 0.038)	4	2	2WU	NO												
TOTAL FOR MAP NO. 35																				
2016CPT.03.32.20672	Onslow	36	SR 1839 (KNOLLWOOD LANE)	FROM SR 1837 TO SR 1829 (MP 0.000 - 0.140)	4	2	2WU	NO												
TOTAL FOR MAP NO. 36																				
2016CPT.03.32.20672	Onslow	37	SR 1832 (SADDLERIDGE DRIVE)	FROM SR 1829 TO SR 1832 (MP 0.000 - 0.504)	4	2	2WU	NO												
TOTAL FOR MAP NO. 37																				
2016CPT.03.32.20672	Onslow	38	SR 1841 (GREENSTONE COURT)	FROM SR 1837 TO CUL-DA-SAC (MP 0.000 - 0.023)	4	2	2WU	NO												
TOTAL FOR MAP NO. 38																				
2016CPT.03.32.20672	Onslow	39	SR 2019 (POMMEL COURT)	FROM SR 2017 TO CUL-DA-SAC (MP 0.000 - 0.035)	4	2	2WU	NO												
TOTAL FOR MAP NO. 39																				
TOTAL FOR PROJ NO. 2016CPT.03.32.20672																				
30001.22	Onslow	40	HAMMOCKS BEACH STATE PARK	VISITORS PARKING LOT & ENTRANCE ROAD	6	2	2WU	NO												
TOTAL FOR MAP NO. 40																				
TOTAL FOR PROJ NO. 30001.22																				
GRAND TOTAL									234	234	3.40	468	2.34	70	468	150	3.40	468	2.34	10

PROJECT NO.	SHEET NO.
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THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	441300000-E	445700000-N	468500000-E	468600000-E		469000000-E	469700000-E	4726110000-E	489000000-E	490000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 120 M YELLOW THERMO	4" X 120 M WHITE THERMO	6" X 120 M WHITE THERMO	8" X 120 M WHITE THERMO	HANDICAP SYMBOL, HEATED IN PLACE (90 MILS)	WHITE THERMO PROFILED PAVEMENT MARKING LINE, 4" LF	YELLOW & YELLOW MARKERS
										SF	LS	LF	LF	LF	LF	LF	EA	LF	EA
2016CPT.03.32.20672	Onslow	23	SR 1834 (HONEY TREE COURT)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.089)	5	2	2WU	0.089	26		0.01								
TOTAL FOR MAP NO. 23										0.089	0.01								
2016CPT.03.32.20672	Onslow	24	SR 1835 (TEAKWOOD PL.)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.103)	5	2	2WU	0.103	26		0.01								
TOTAL FOR MAP NO. 24										0.103	0.01								
2016CPT.03.32.20672	Onslow	25	SR 1858 (WHITE PINE COURT)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.076)	5	2	2WU	0.076	26		0.01								
TOTAL FOR MAP NO. 25										0.076	0.01								
2016CPT.03.32.20672	Onslow	26	SR 2330 (BROWNING COURT)	FROM SR 2329 TO CUL-DA-SAC (MP 0.000 - 0.043)	3	2	2WU	0.043	18		0.01								
TOTAL FOR MAP NO. 26										0.043	0.01								
2016CPT.03.32.20672	Onslow	27	SR 1863 (SMOKE TREE PLACE)	FROM SR 1833 TO CUL-DA-SAC (MP 0.000 - 0.036)	5	2	2WU	0.036	26		0.01								
TOTAL FOR MAP NO. 27										0.036	0.01								
2016CPT.03.32.20672	Onslow	28	SR 1897 (SADDLERIDGE DRIVE)	FROM SR 1829 TO SR 1898 (MP 0.000 - 0.048)	4	2	2WU	0.048	26		0.01								
TOTAL FOR MAP NO. 28										0.048	0.01								
2016CPT.03.32.20672	Onslow	29	SR 2031 (MENDOVER DRIVE)	FROM SR 1308 TO SR 2037 (MP 0.000 - 0.926)	3	2	2WU	0.926	21		0.04								
TOTAL FOR MAP NO. 29										0.926	0.04								
2016CPT.03.32.20672	Onslow	30	SR 2032 (THRUSH COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.062)	3	2	2WU	0.062	18		0.01								
TOTAL FOR MAP NO. 30										0.062	0.01								
2016CPT.03.32.20672	Onslow	31	SR 2033 (TANAGER CT.)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.030)	3	2	2WU	0.03	18		0.01								
TOTAL FOR MAP NO. 31										0.03	0.01								
2016CPT.03.32.20672	Onslow	32	SR 2034 (WILTSHIRE COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.233)	3	2	2WU	0.233	20		0.01								
TOTAL FOR MAP NO. 32										0.233	0.01								
2016CPT.03.32.20672	Onslow	33	SR 2036 (SISKIN COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.073)	3	2	2WU	0.073	18		0.01								
TOTAL FOR MAP NO. 33										0.073	0.01								
2016CPT.03.32.20672	Onslow	34	SR 2037 (ORIOLE COURT)	FROM SR 2031 TO CUL-DA-SAC (MP 0.000 - 0.062)	3	2	2WU	0.062	18		0.01								
TOTAL FOR MAP NO. 34										0.062	0.01								
2016CPT.03.32.20672	Onslow	35	SR 1838 (WILLOWCREST COURT)	FROM SR 1837 TO CUL-DA-SAC (MP 0.000 - 0.038)	4	2	2WU	0.038	26		0.01								
TOTAL FOR MAP NO. 35										0.038	0.01								
2016CPT.03.32.20672	Onslow	36	SR 1839 (KNOLLWOOD LANE)	FROM SR 1837 TO SR 1829 (MP 0.000 - 0.140)	4	2	2WU	0.14	26		0.01								
TOTAL FOR MAP NO. 36										0.14	0.01								
2016CPT.03.32.20672	Onslow	37	SR 1832 (SADDLERIDGE DRIVE)	FROM SR 1829 TO SR 1832 (MP 0.000 - 0.504)	4	2	2WU	0.504	26		0.03								
TOTAL FOR MAP NO. 37										0.504	0.03								
2016CPT.03.32.20672	Onslow	38	SR 1841 (GREENSTONE COURT)	FROM SR 1837 TO CUL-DA-SAC (MP 0.000 - 0.023)	4	2	2WU	0.023	26		0.01								
TOTAL FOR MAP NO. 38										0.023	0.01								
2016CPT.03.32.20672	Onslow	39	SR 2019 (POMMEL COURT)	FROM SR 2017 TO CUL-DA-SAC (MP 0.000 - 0.035)	4	2	2WU	0.035	24		0.01								
TOTAL FOR MAP NO. 39										0.035	0.01								
TOTAL FOR PROJ NO. 2016CPT.03.32.20672										5.666	0.44								
30001.22	Onslow	40	HAMMOCKS BEACH STATE PARK	VISITORS PARKING LOT & ENTRANCE ROAD	6	2	2WU	0.65	18	32	0.08	3,140	3,900	2,686	140.00	60	8		
TOTAL FOR MAP NO. 40										0.65	0.08	3,140	3,900	2,686	140	60	8		
TOTAL FOR PROJ NO. 30001.22										0.65	0.08	3,140	3,900	2,686	140	60	8		
GRAND TOTAL										15.272	1	3,140	63,670	2,726	140	60	8	59,770	372
													66,396						

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

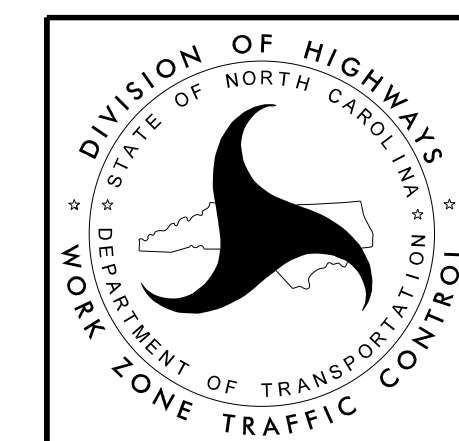
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING		
	1	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS: <ol style="list-style-type: none"> LESS THAN 1000' OF RESURFACING ALONG -Y- LINE SUBDIVISION ROADS DEAD END ROADS 	
	2	 W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	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.	
	3 *	 SP 13107 48" X 48"	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	 W20-1 48" X 48"	 W20-7 A 48" X 48"
	4	 SP 13106 48" X 48"	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.	PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.	
5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.			

* 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