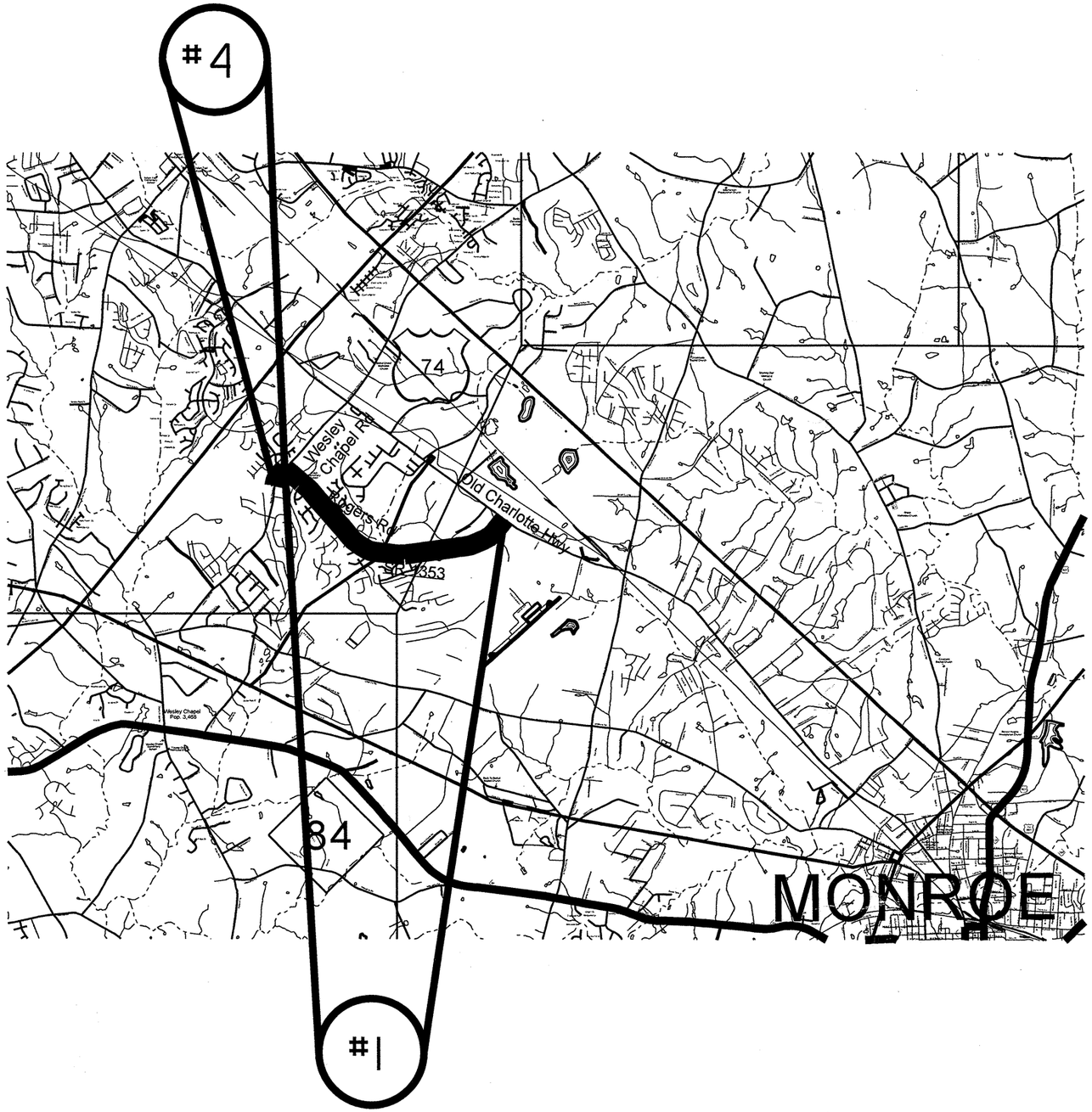
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32-10CR.10901.36 10CR.20901.84-10CR.20901.93	1	
F.A. PROJECT NO.			



N

S

ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

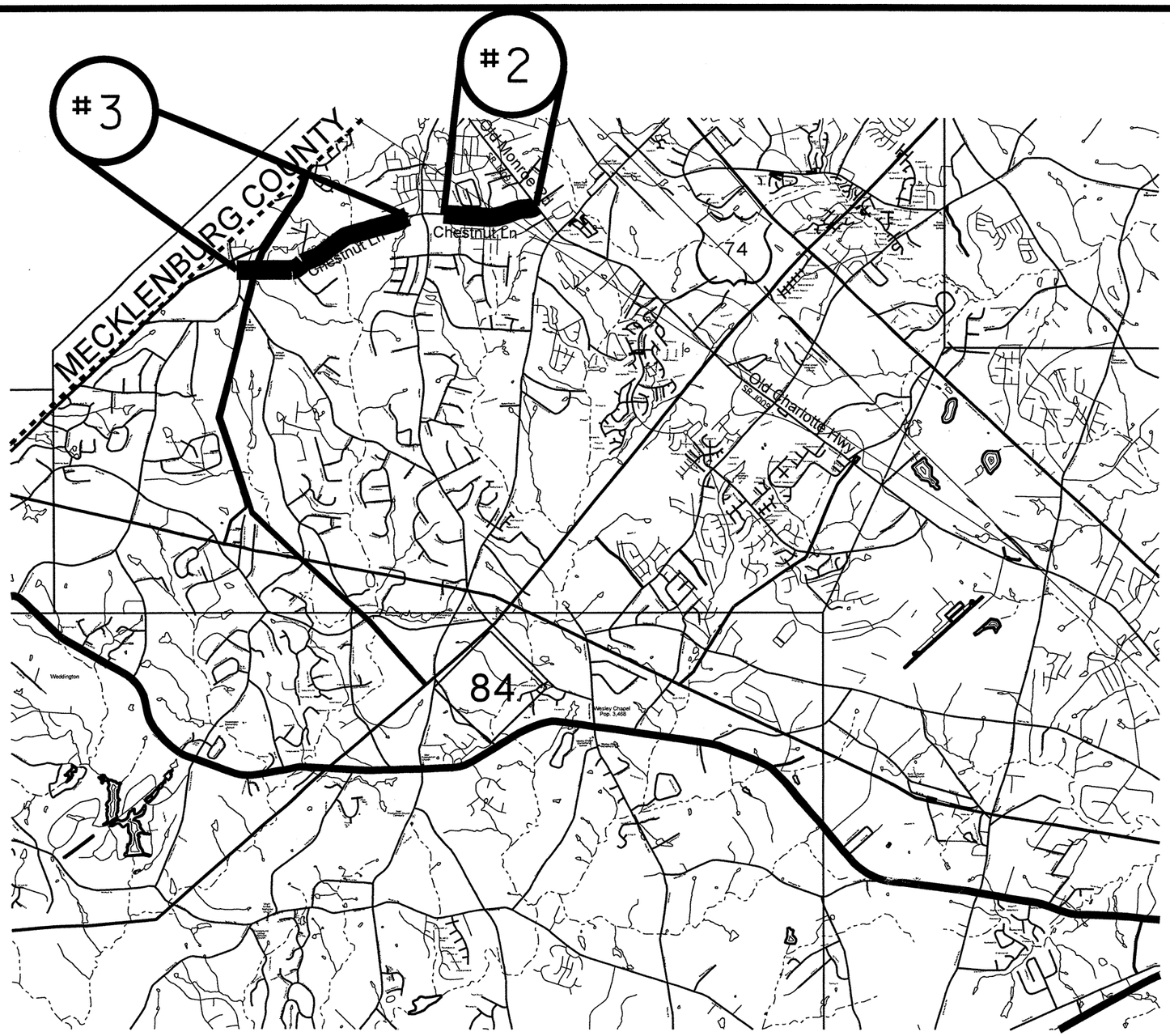
NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #1 SR-1353 (ROGERS RD)
2.04 MILES

MAP #4 SR- 1377 (WESLEY CHAPEL RD)
0.33 MILES



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32-10CR.10901.36 10CR.20901.84-10CR.20901.93	2	
F.A. PROJECT NO.			

N

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ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

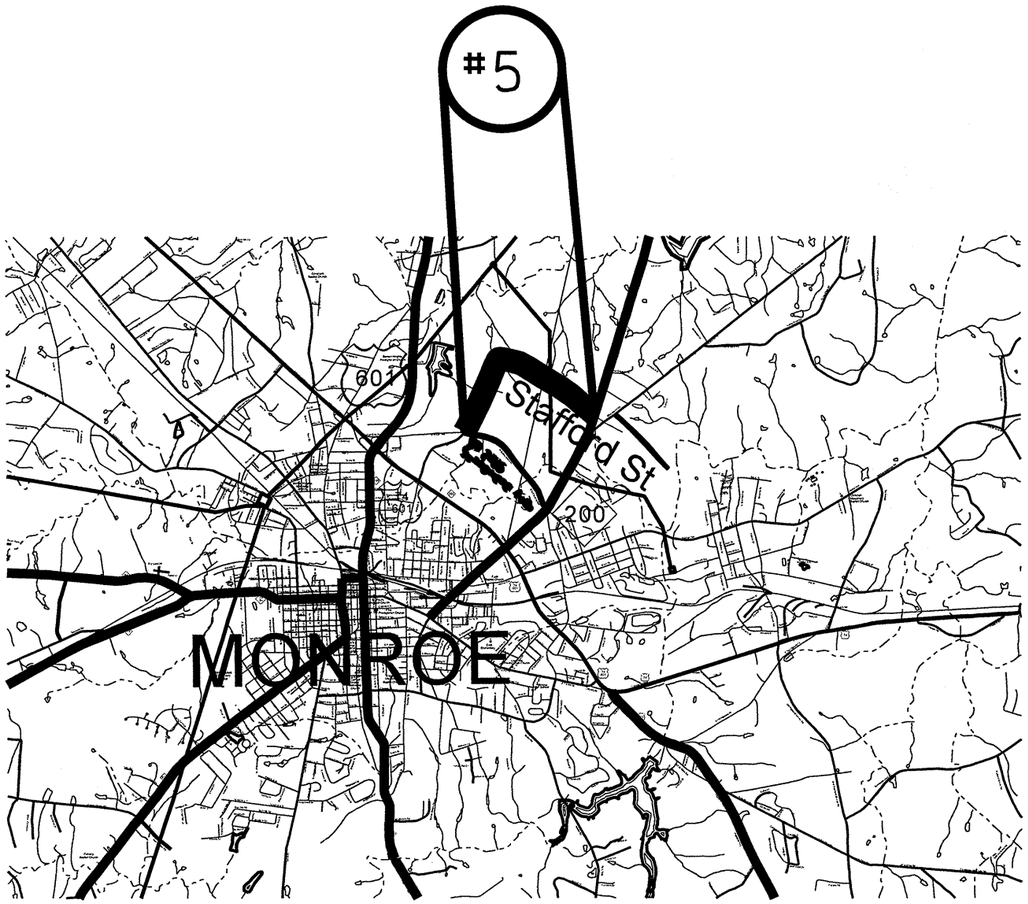
NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #2 SR - 1362 (CHESTNUT LANE)
.84 MILES

MAP #3 SR - 1362 (CHESTNUT LANE)
1.53 MILES



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32-10CR.10901.36 10CR.20901.84-10CR.20901.93	3	
F.A. PROJECT NO.			

N

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ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

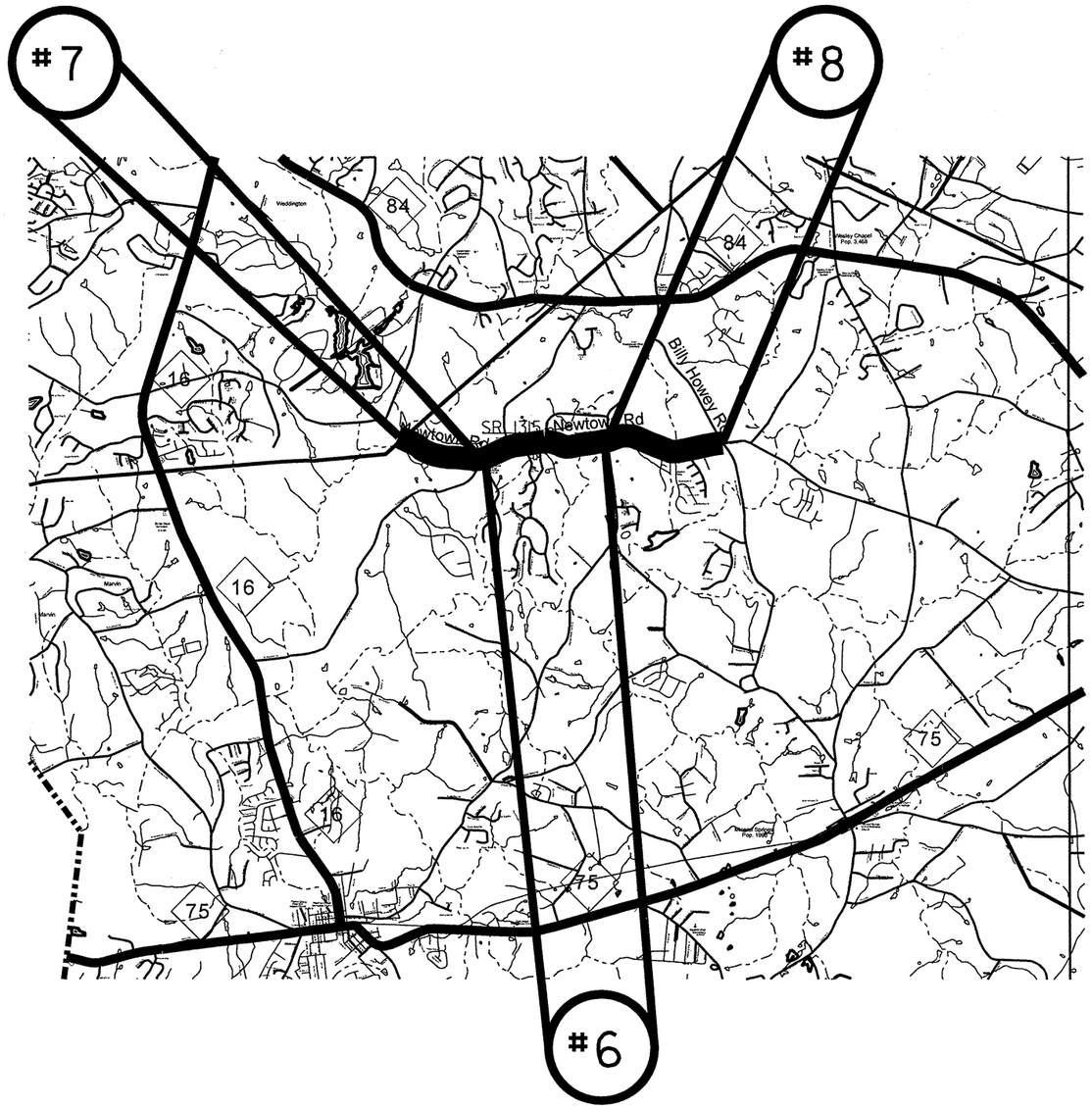
NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #5 SR-1624 (STAFFORD ST)
1.44 MILES

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32-10CR.10901.36 10CR.20901.84-10CR.20901.93	4	
F.A. PROJECT NO.			



N

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ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

NORTH CAROLINA

PREPARED BY THE

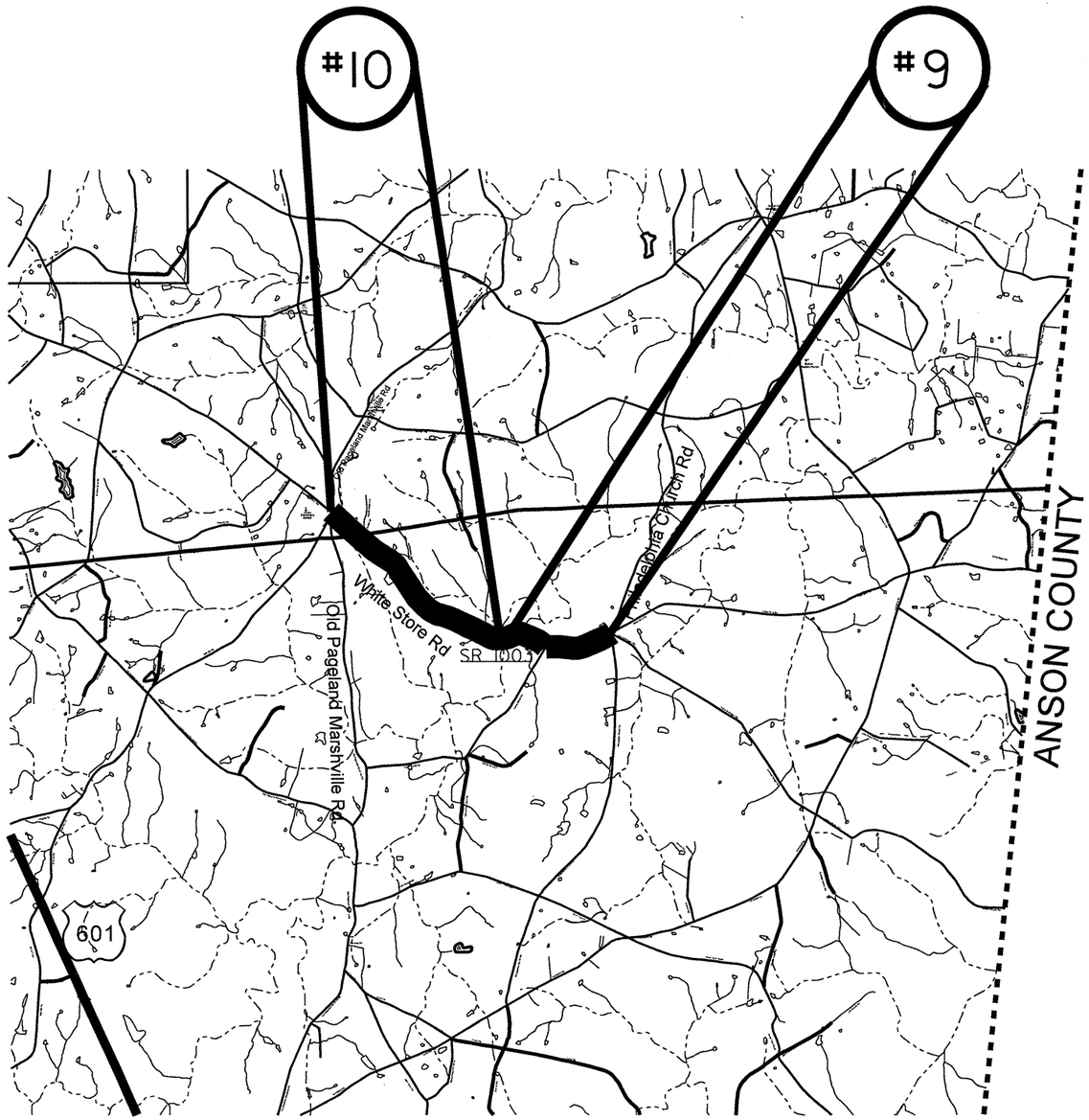
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #6 SR-1315 (NEWTOWN RD)
1.02 MILES

MAP #7 SR-1315 (NEWTOWN RD)
0.71 MILES

MAP #8 SR-1315 (NEWTOWN RD)
1.04 MILES

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32-10CR.10901.36 10CR.20901.84-10CR.20901.93	5	
F.A. PROJECT NO.			



N

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ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

NORTH CAROLINA

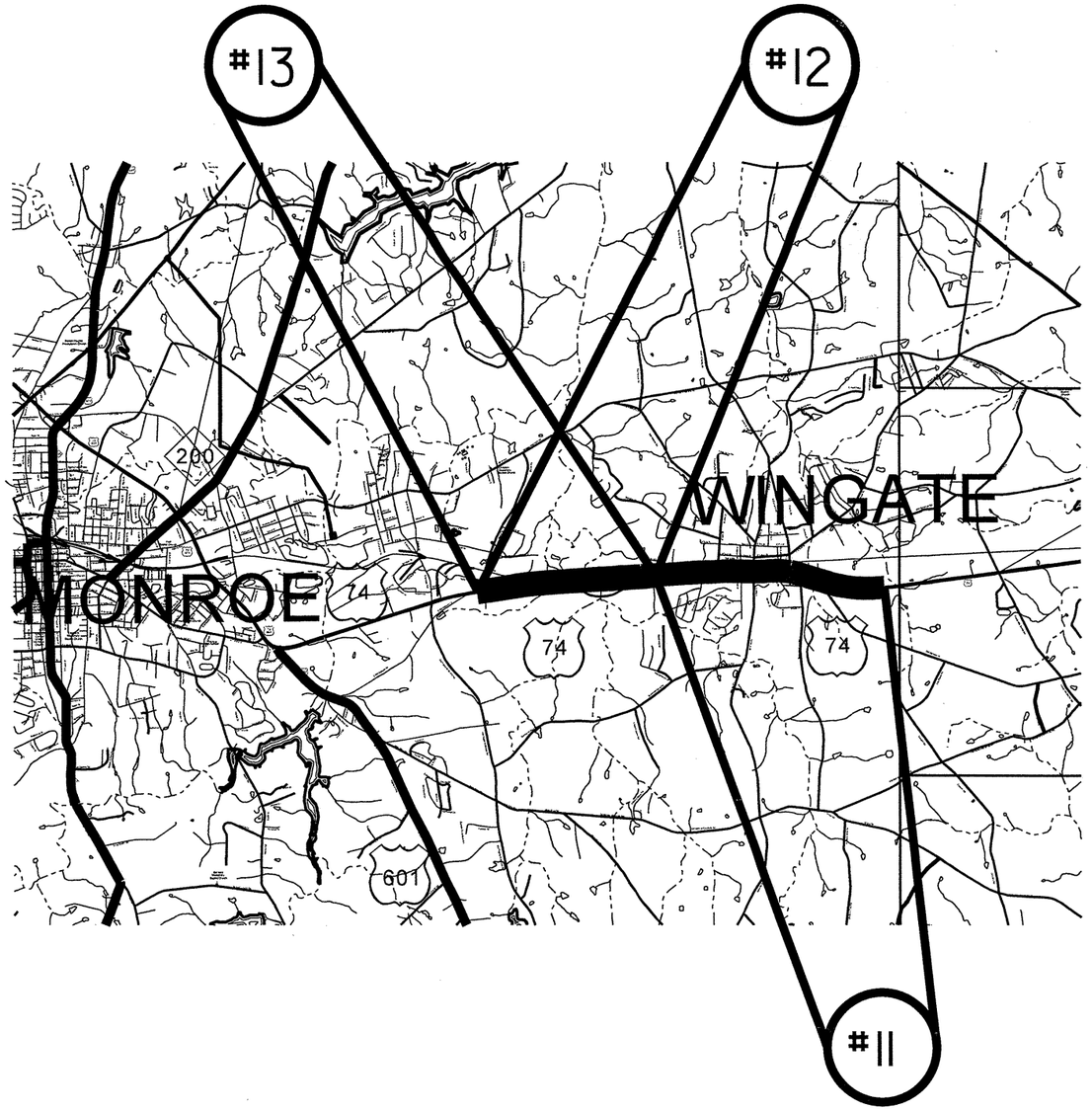
PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #9 SR-1003 (WHITESTORE RD)
0.91 MILES

MAP #10 SR 1003 (WHITE STORE RD)
1.71 MILES

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32-10CR.10901.36 10CR.20901.84-10CR.20901.93	6	
F.A. PROJECT NO.			



N

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ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

NORTH CAROLINA

PREPARED BY THE

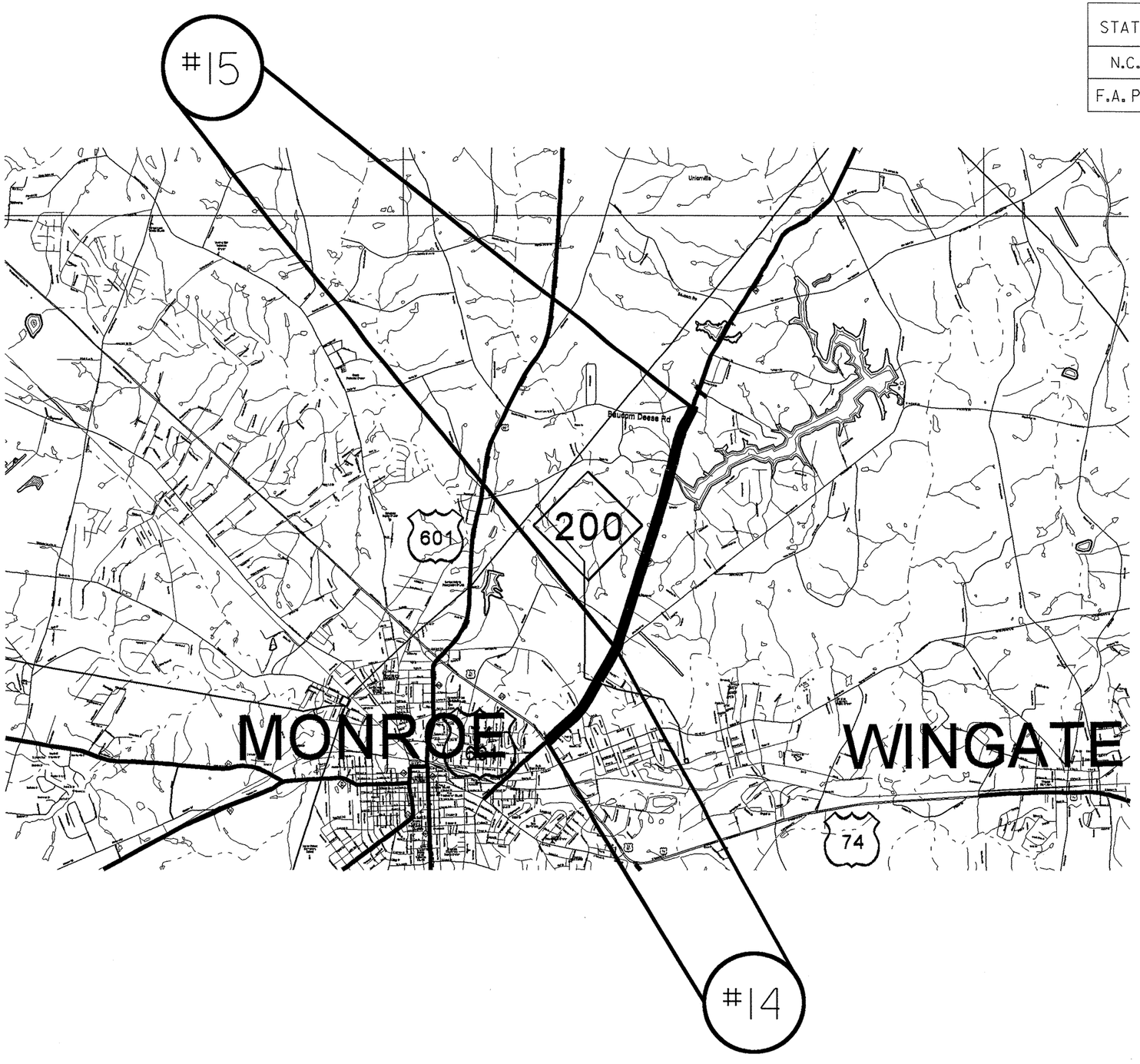
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

MAP #11 US 74
1.85 MILES

MAP #12 US 74 EASTBOUND
1.47 MILES

MAP #13 US 74 WESTBOUND
1.47MILES

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32-10CR.10901.36 10CR.20901.84-10CR.20901.93	7	
F.A. PROJECT NO.			



N

S

ENLARGED MUNICIPAL AND SUBURBAN AREAS

UNION COUNTY

NORTH CAROLINA

PREPARED BY THE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - DIVISION 10 DISTRICT 3

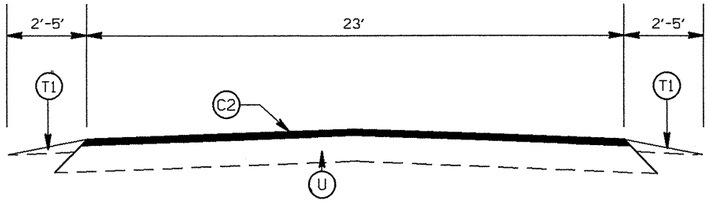
MAP #14 NC 200 NORTH
1.07 MILES

FROM US 74 TO OLIVE BRANCH RD
MILEPOST 19.978 - 21.048

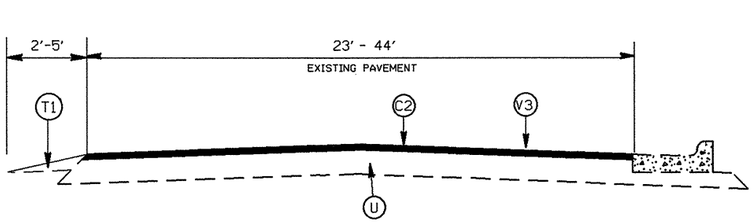
MAP #15 NC 200 NORTH
2.3 MILES

FROM BAUCOM DEESE RD TO
OLIVE BRANCH RD
MILEPOST 23.319 - 21.019

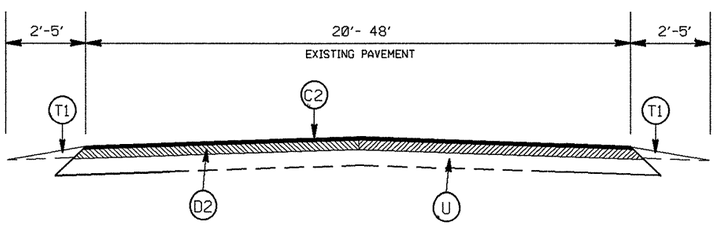
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32 - 10CR.10901.36 10CR.20901.84 - 10CR.20901.93	8	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 3
SR 1362 CHESTNUT LANE (MAP 2 & 3)

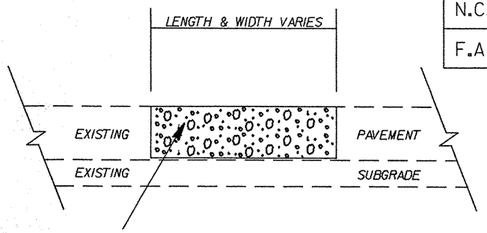


TYPICAL SECTION NO. 2
SR 1353 ROGERS RD (MAP 1)
SR 1362 CHESTNUT LANE (MAP 3)



TYPICAL SECTION NO. 1
SR 1353 ROGERS RD (MAP 1)

PATCHING DETAIL



RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER. ASPHALT TYPE I19.0C SHALL BE PLACED.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
T1	SHOULDER RECONSTRUCTION
V1	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH
V2	MILLING OF EXISTING PAVEMENT, 2.5" IN DEPTH
V3	0 - 1.5" PROFILE MILLING OF EXISTING PAVEMENT, FROM 10' - 20' IN WIDTH AS DIRECTED BY THE ENGINEER.
V4	MILLING OF EXISTING PAVEMENT, 4" IN DEPTH

NOTES:

1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

2: ON MAP 1, SKIP RECENT IMPROVEMENTS FROM STA. 32+00 TO STA. 42+00

3: ON MAP 3 , SKIP RECENT IMPROVEMENTS FROM STA. 21+00 TO STA. 34+50.

4: ON MAPS 3, 6, 10, AND 14 MILL AND FILL 1.5" OVER ASPHALT BRIDGES.

5: ON MAP 15, DO NOT MILL OR RESURFACE OVER BRIDGE.

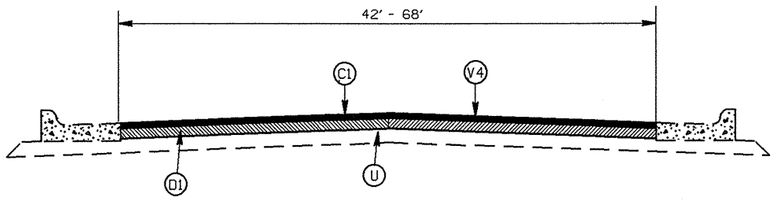
6: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER. NO AGGREGATE SHOULDER BORROW WILL BE ALLOWED, WITHOUT APPROVAL BY THE ENGINEER.

2013-2014
UNION COUNTY RESURFACING

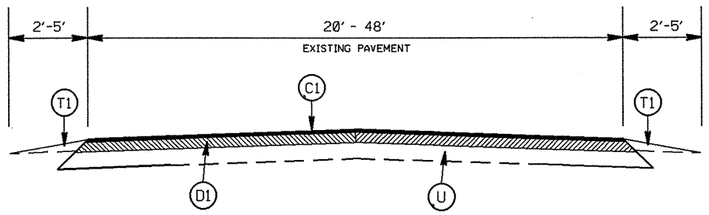
SCALE	-NA-
DATE	2/13
DWG. BY	AMO
DESIGN BY	AMO
APPROVED	JWU

REVISIONS	

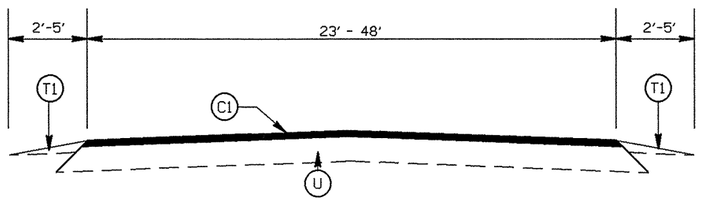
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32 - 10CR.10901.36 10CR.20901.84 - 10CR.20901.93	9	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 6
NC 200 NORTH (MAP 14)
FROM STA. 10+00 TO STA. 13+30

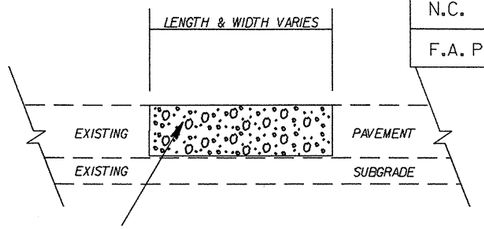


TYPICAL SECTION NO. 5
SR 1624 STAFFORD ST. (MAP 5)
SR 1315 NEWTOWN RD. (MAP 6,7,8)
NC 200 NORTH (MAP 14) STA. 13+30 TO END OF MAP
NC 200 NORTH (MAP 15) STA. 24+00 TO END OF MAP



TYPICAL SECTION NO. 4
SR 1377 WESLEY CHAPEL RD (MAP 4)
NC 200 NORTH (MAP 15) STA. 10+00 TO STA. 24+00

PATCHING DETAIL



RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER. ASPHALT TYPE I19.0C SHALL BE PLACED.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
T1	SHOULDER RECONSTRUCTION
V1	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH
V2	MILLING OF EXISTING PAVEMENT, 2.5" IN DEPTH
V3	0 - 1.5" PROFILE MILLING OF EXISTING PAVEMENT, FROM 10' - 20' IN WIDTH AS DIRECTED BY THE ENGINEER.
V4	MILLING OF EXISTING PAVEMENT, 4" IN DEPTH

NOTES:

1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

2: ON MAP 1, SKIP RECENT IMPROVEMENTS FROM STA. 32+00 TO STA. 42+00

3: ON MAP 3 , SKIP RECENT IMPROVEMENTS FROM STA. 21+00 TO STA. 34+50.

4: ON MAPS 3,6,10, AND 14 MILL AND FILL 1.5" OVER ASPHALT BRIDGES.

5: ON MAP 15, DO NOT MILL OR RESURFACE OVER BRIDGE.

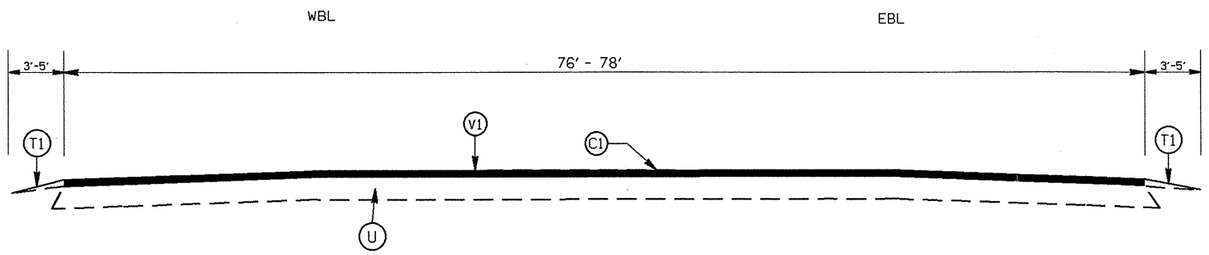
6: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER. NO AGGREGATE SHOULDER BORROW WILL BE ALLOWED, WITHOUT APPROVAL BY THE ENGINEER.

2013-2014
UNION COUNTY RESURFACING

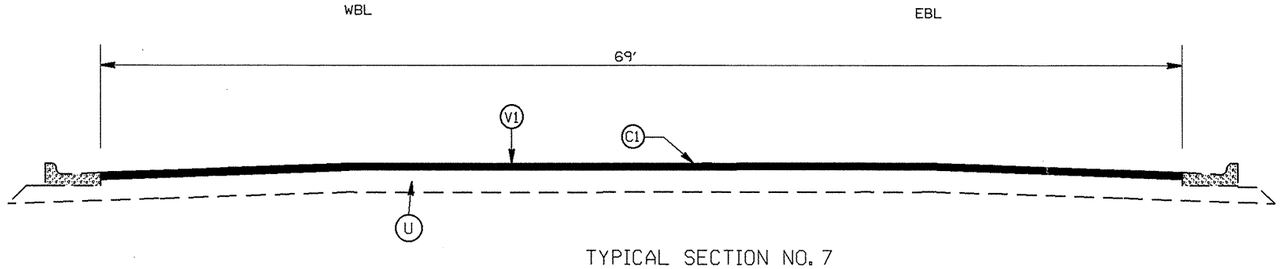
SCALE	-NA-
DATE	2/13
DWG. BY	AMO
DESIGN BY	AMO
APPROVED	JMU

REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32 - 10CR.10901.36 10CR.20901.84 - 10CR.20901.93	10	
F.A. PROJECT NO.			

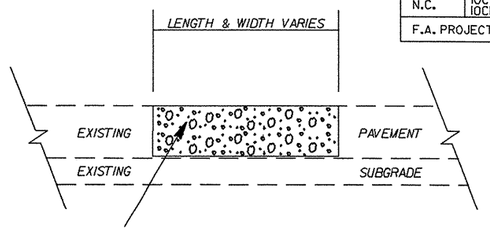


TYPICAL SECTION NO. 8
HWY 74 5 LANE SECTION (MAP 11)



TYPICAL SECTION NO. 7
HWY 74 5 LANE SECTION (MAP 11)

PATCHING DETAIL



RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER. ASPHALT TYPE I19.0C SHALL BE PLACED.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
T1	SHOULDER RECONSTRUCTION
V1	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH
V2	MILLING OF EXISTING PAVEMENT, 2.5" IN DEPTH
V3	Ø - 1.5" PROFILE MILLING OF EXISTING PAVEMENT, FROM 10' - 20' IN WIDTH AS DIRECTED BY THE ENGINEER.
V4	MILLING OF EXISTING PAVEMENT, 4" IN DEPTH

NOTES:

1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

2: ON MAP 1, SKIP RECENT IMPROVEMENTS FROM STA. 32+00 TO STA. 42+00

3: ON MAP 3, SKIP RECENT IMPROVEMENTS FROM STA. 21+00 TO STA. 34+50.

4: ON MAPS 3, 6, 10, AND 14 MILL AND FILL 1.5" OVER ASPHALT BRIDGES.

5: ON MAP 15, DO NOT MILL OR RESURFACE OVER BRIDGE.

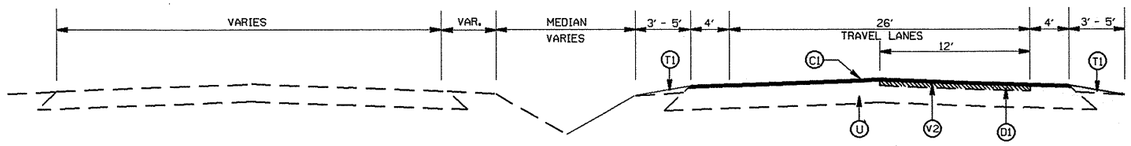
6: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER. NO AGGREGATE SHOULDER BORROW WILL BE ALLOWED, WITHOUT APPROVAL BY THE ENGINEER.

2013-2014
UNION COUNTY RESURFACING

SCALE	-NA-
DATE	2/13
DWG. BY	AMO
DESIGN BY	AMO
APPROVED	JWU

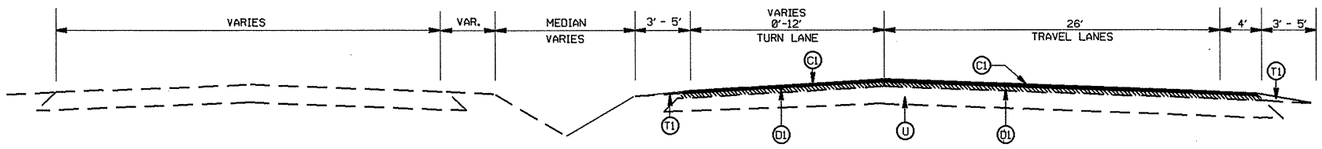
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32 - 10CR.10901.36 10CR.20901.84 - 10CR.20901.93	11	
F.A. PROJECT NO.			

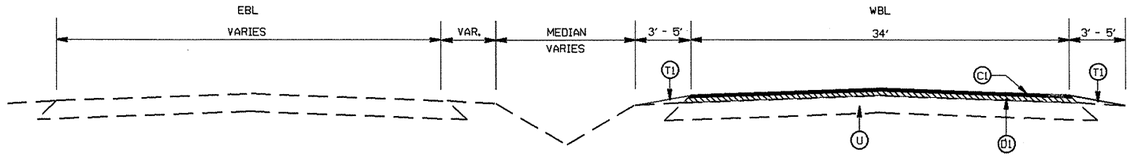


TYPICAL SECTION NO. 11
FOR TRAVEL LANES
US 74 EB

EBL WBL

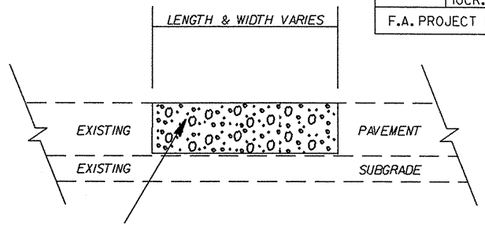


TYPICAL SECTION NO. 10
US 74 WB TRAVEL LANES & TURNLANES (MAP 13)



TYPICAL SECTION NO. 9
US 74 WB TRAVEL LANES (MAP 13)

PATCHING DETAIL



RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER. ASPHALT TYPE I19.0C SHALL BE PLACED.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
T1	SHOULDER RECONSTRUCTION
V1	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH
V2	MILLING OF EXISTING PAVEMENT, 2.5" IN DEPTH
V3	0 - 1.5" PROFILE MILLING OF EXISTING PAVEMENT, FROM 10' - 20' IN WIDTH AS DIRECTED BY THE ENGINEER.
V4	MILLING OF EXISTING PAVEMENT, 4" IN DEPTH

NOTES:

1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

2: ON MAP 1, SKIP RECENT IMPROVEMENTS FROM STA. 32+00 TO STA. 42+00

3: ON MAP 3, SKIP RECENT IMPROVEMENTS FROM STA. 21+00 TO STA. 34+50.

4: ON MAPS 3, 6, 10, AND 14 MILL AND FILL 1.5" OVER ASPHALT BRIDGES.

5: ON MAP 15, DO NOT MILL OR RESURFACE OVER BRIDGE.

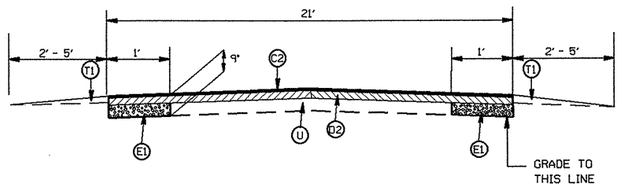
6: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER. NO AGGREGATE SHOULDER BORROW WILL BE ALLOWED, WITHOUT APPROVAL BY THE ENGINEER.

2013-2014
UNION COUNTY RESURFACING

SCALE	-NA-
DATE	2/12
DWG. BY	JAB
DESIGN BY	JAB
APPROVED	JWU

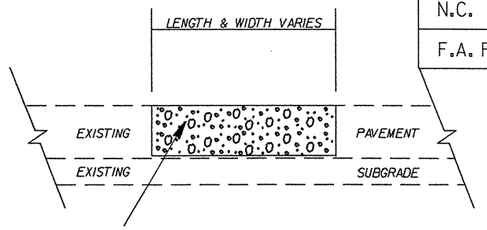
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	10CR.10901.32 - 10CR.10901.36 10CR.20901.84 - 10CR.20901.93	12	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 14
SR 1003 WHITESTORE RD (MAP 9 & 10)

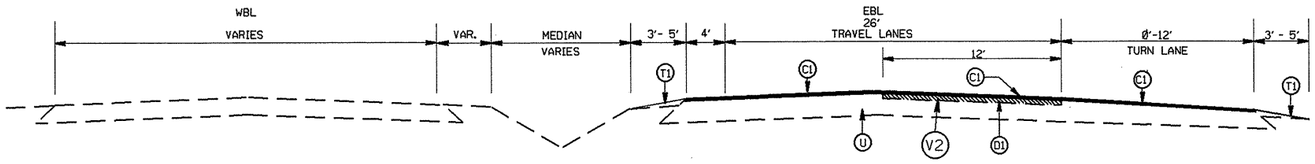
PATCHING DETAIL



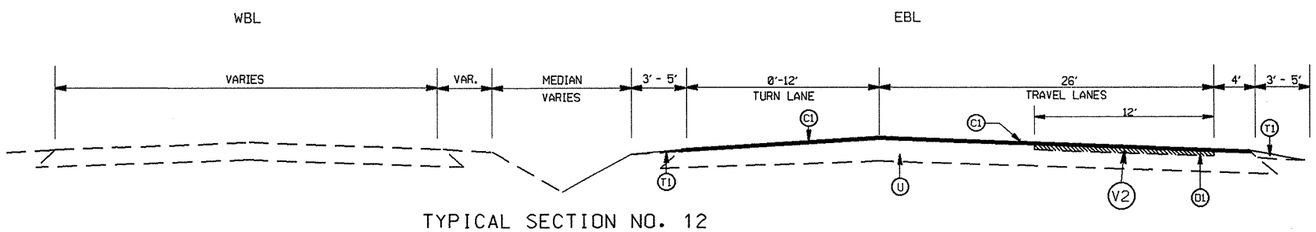
RATE IS VARIABLE AND SHALL BE AS DIRECTED BY THE ENGINEER. ASPHALT TYPE I19.0C SHALL BE PLACED.

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
T1	SHOULDER RECONSTRUCTION
V1	MILLING OF EXISTING PAVEMENT, 1.5" IN DEPTH
V2	MILLING OF EXISTING PAVEMENT, 2.5" IN DEPTH
V3	Ø - 1.5" PROFILE MILLING OF EXISTING PAVEMENT, FROM 10' - 20' IN WIDTH AS DIRECTED BY THE ENGINEER.
V4	MILLING OF EXISTING PAVEMENT, 4" IN DEPTH



TYPICAL SECTION NO. 13
FOR RIGHT TURNLANES
US 74 EB



TYPICAL SECTION NO. 12
FOR LEFT TURNLANES
US 74 EB (MAP 12)

NOTES:

1: LEVELING COURSE TO BE PLACED AT LOCATIONS AS DIRECTED BY THE ENGINEER.

2: ON MAP 1, SKIP RECENT IMPROVEMENTS FROM STA. 32+00 TO STA. 42+00

3: ON MAP 3, SKIP RECENT IMPROVEMENTS FROM STA. 21+00 TO STA. 34+50.

4: ON MAPS 3, 6, 10, AND 14 MILL AND FILL 1.5" OVER ASPHALT BRIDGES.

5: ON MAP 15, DO NOT MILL OR RESURFACE OVER BRIDGE.

6: SHOULDER RECONSTRUCTION WILL BE AS DIRECTED BY THE ENGINEER. NO AGGREGATE SHOULDER BORROW WILL BE ALLOWED, WITHOUT APPROVAL BY THE ENGINEER.

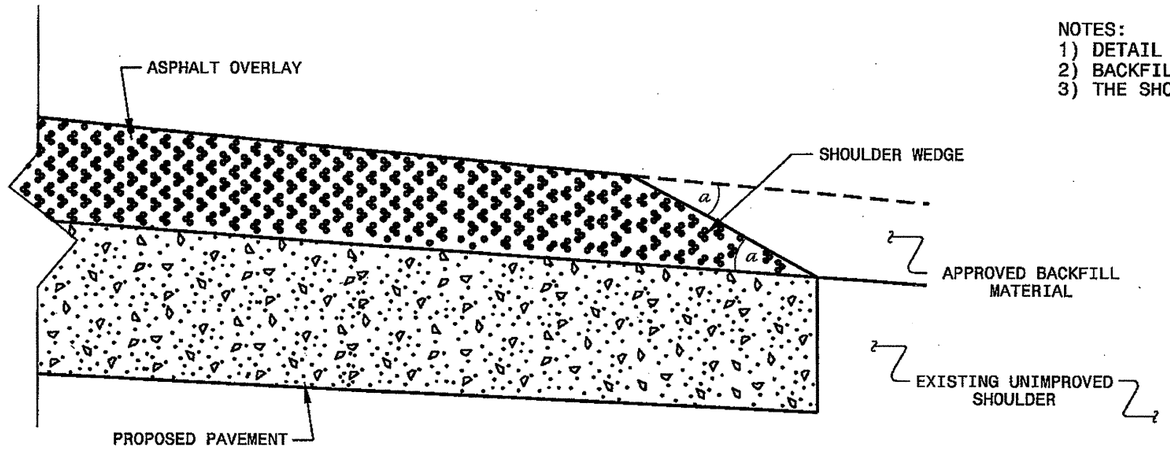
2013-2014
UNION COUNTY RESURFACING

SCALE	-NA-
DATE	2/13
DWG. BY	AMO
DESIGN BY	AMO
APPROVED	JWU

REVISIONS	

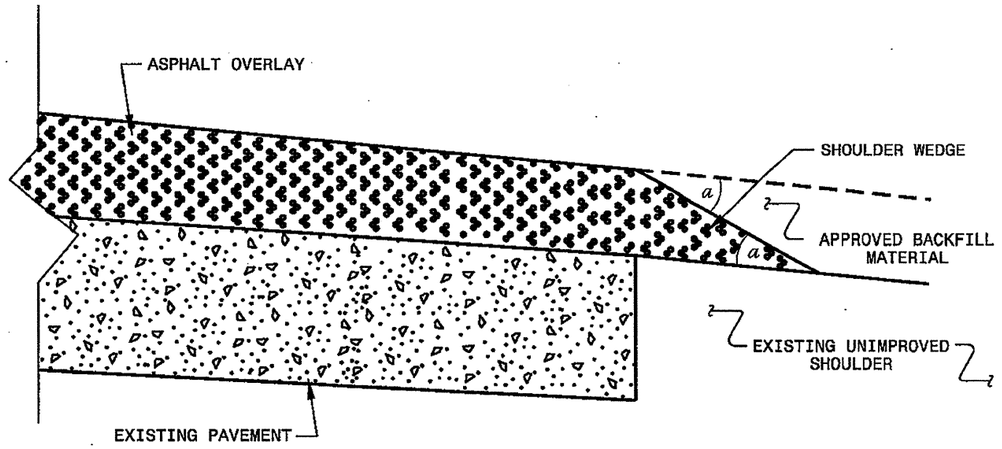
PROJECT REFERENCE NO.	SHEET NO.
XXXXXXXX - XXXXXXXX XXXXXXXX - XXXXXXXX	13

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.



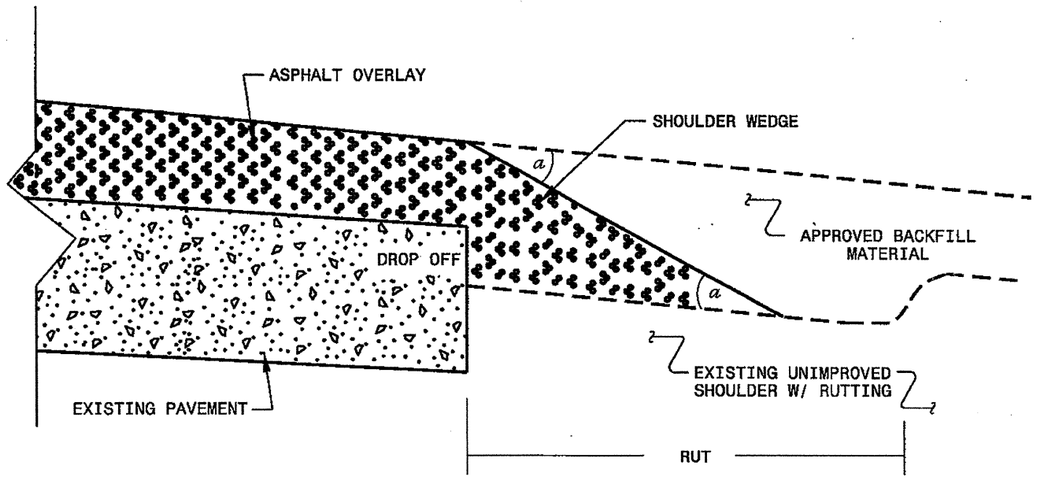
SHOULDER WEDGE DETAIL

(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.:	scuor/details/stand/shoulderwedgedetail.dgn		

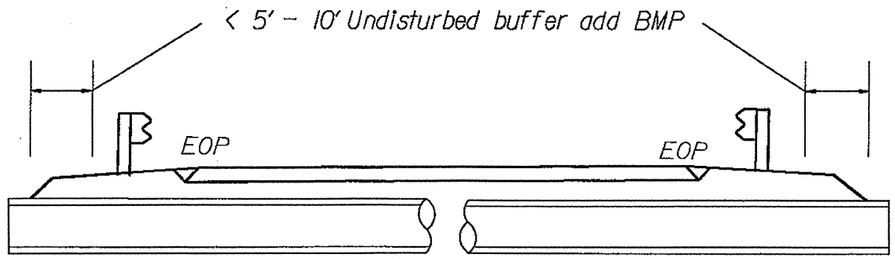
PROJECT REFERENCE NO.	SHEET NO.
10CR.10901.32 - 10CR.10901.36 10CR.20901.84 - 10CR.20901.93	14

EROSION CONTROL DETAIL

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

BMP Options: Wattle or Silt Fence

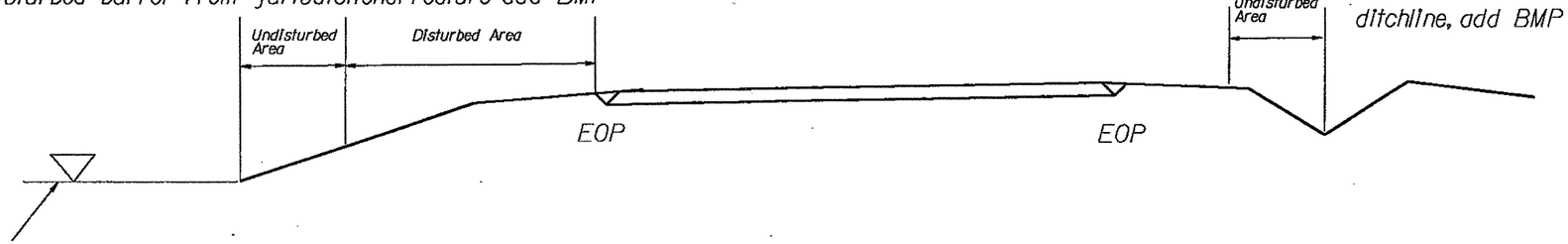
< 5' – 10' Undisturbed buffer add BMP



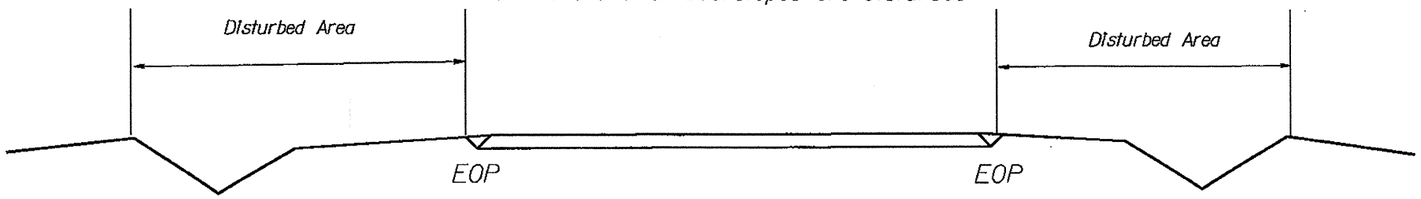
Pipe/Culvert

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

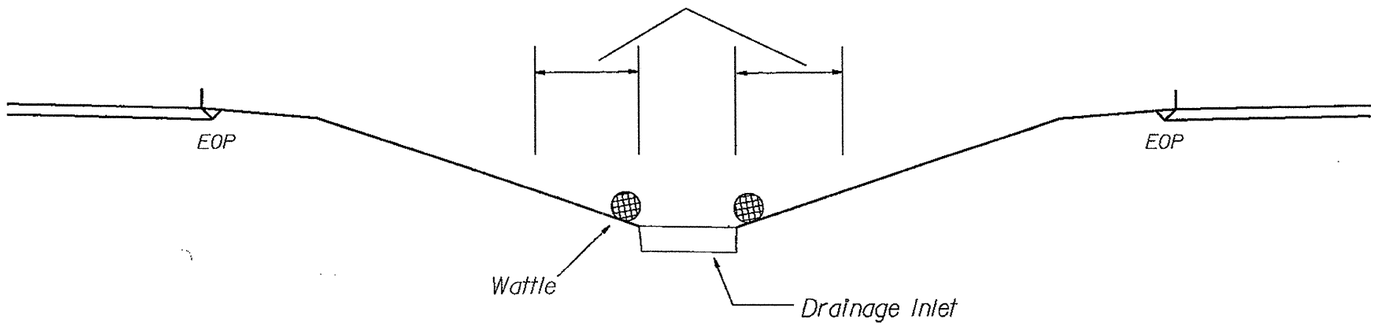
< 5' – 10' Undisturbed buffer from ditchline, add BMP



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



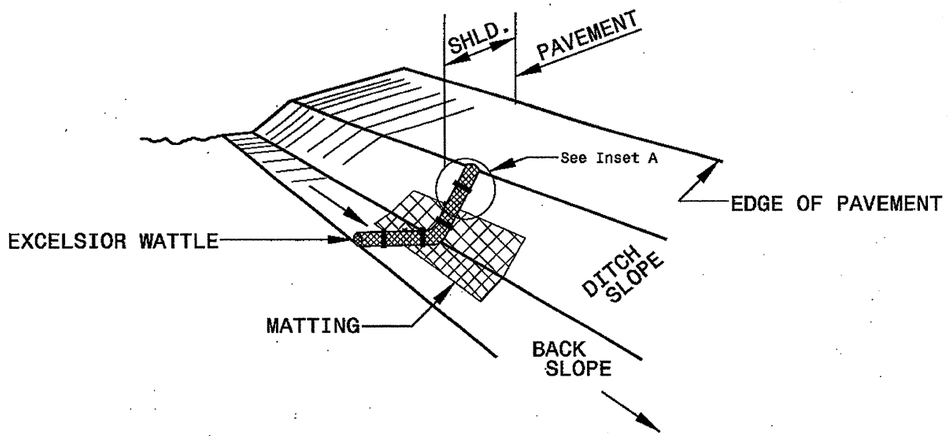
< 5' – 10' Undisturbed buffer from inlet, add wattle



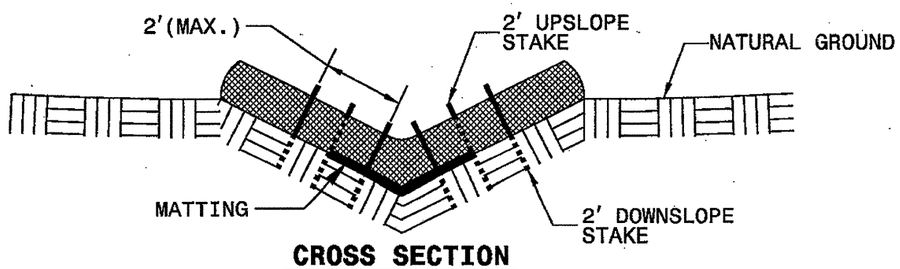
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
10CR.10901.32 - 10CR.10901.36 10CR.20901.84 - 10CR.20901.93	15

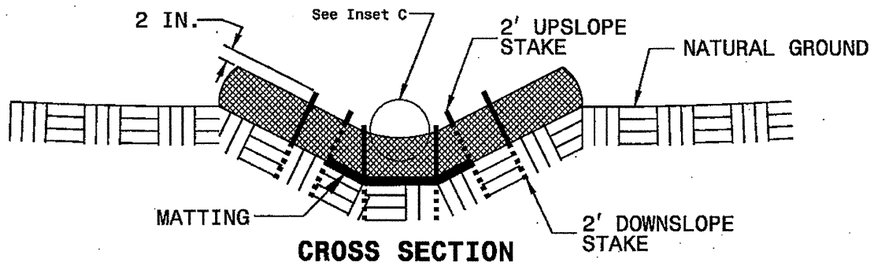
WATTLE WITH POLYACRYLAMIDE DETAIL



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. CROSS SECTION.

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

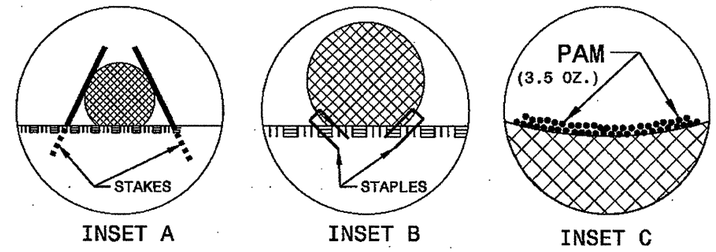
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

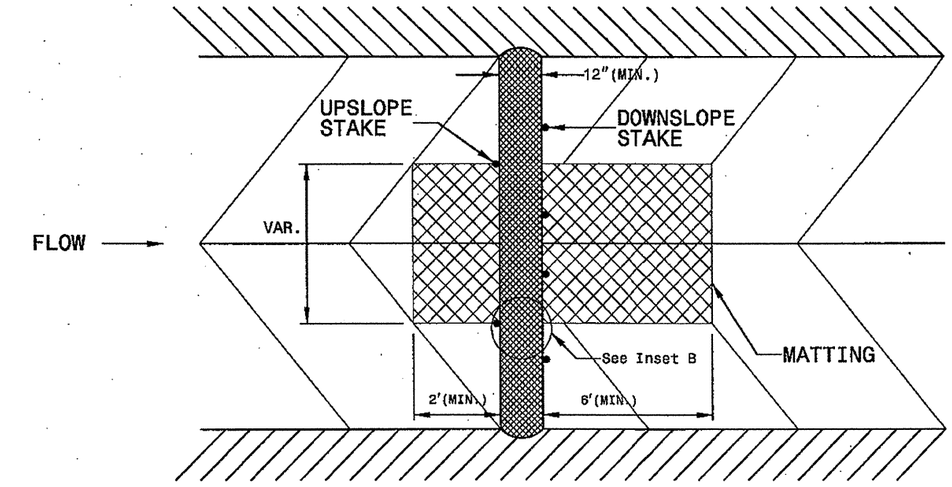
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

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

INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



INSET A INSET B INSET C



TOP VIEW

PROJECT NO.	SHEET NO.	TOTAL NO.
10CR.10901.32-10CR.10901.36	16	
10CR.20901.84-10CR.20901.93		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	AGGREGATE SHOULDER BORROW ALLOWED	LENGTH MI	WIDTH FT	BORROW CY	DITCH EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1½" MILLING SY	2.5" MILLING SY	4" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	INTER-MEDIATE COURSE, I19.0B TONS	INTER-MEDIATE COURSE, I19.0C TONS	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, S9.5C TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	CONCRETE CURB RAMPS EA	6" DRIVE-WAYS SY	REMOVE & REPLACE 2'-6" CURB & GUTTER LF	RETROFIT EXISTING CURB RAMPS EA	ADJ. OF MAN-HOLES EA	ADJ. OF METER OR VALVE BOX EA	TEMPORARY SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TN	SEDIMENT CONTROL STONE TN	WATTLE LF	POLYACRY-LAMIDE (PAM) LB
10CR.20901.84	Union	1	SR 1353 (ROGERS RD)	FROM PAVEMENT JOINT SOUTH OF SR 1009 (OLD CHARLOTTE HWY) TO SR 1377 WESLEY CHAPEL RD) **MILEPOST 0.000 TO MILEPOST 2.04**	1, 2	YES--TYP 1 NO--TYP 2	NO	NO	2.04	20-48	900		155	3.70				2,334	68		4,130		2,960					376	900	1	126		12		8	278	41	50	278	1.0
10CR.20901.85	Union	2	SR-1362 (CHESTNUT LANE)	SR1009 (OLD CHARLOTTE HWY) TO PAVEMENT JOINT NORTHEAST OF SR 1357 (POTTER RD) **MILEPOST 0.000 TO MILEPOST 0.840**	3	NO	NO	NO	0.84	23	155		47	1.70					21				1,050	500			96	400					2	1	126	17	9	126	0.5
10CR.20901.86	Union	3	SR-1362 (CHESTNUT LANE)	FROM PAVEMENT JOINT SOUTHWEST OF SR 1357 (POTTER RD) TO SR 1344 (MATTHEWS WEDDINGTON RD) **MILEPOST 1.150 TO MILEPOST 2.680**	2,3	NO	NO	NO	1.53	23-34	156		85	2.60	112			3,832	42				1,800	675			152	590				2	2	4	191	26	13	191	0.5
10CR.20901.87	Union	4	SR-1377 (WESLEY CHAPEL RD)	FROM SR 1353 (ROGERS RD) TO PAVEMENT JOINT 0.33 MILES SOUTHWEST OF SR1353(ROGERS RD) **MILEPOST 1.680 TO MILEPOST 1.350**	4	NO	NO	NO	0.33	23-36	60			0.70					27						471	200	41	200	1					3	50	7	4	50	0.5
10CR.20901.88	Union	5	SR-1624 (STAFFORD ST)	FROM HWY 200 NORTH TO SR 2706 (SUTHERLAND) **MILEPOST 0.000 TO MILEPOST 1.440**	5	YES	NO	NO	1.44	20	690	80	106	2.80					18			2,600			1,552		216	1,000						212	29	15	212	0.5
10CR.20901.89	Union	6	SR-1315 (NEW TOWN RD)	FROM SR 1008 (WAXHAW INDIAN TRAIL RD) TO SR 1321 (CUTHBERTSON RD) **MILEPOST 7.580 TO MILEPOST 8.600**	5	YES	NO	NO	1.02	21-32	524	128	91	2.10	125				19			2,356			1,434		198	471		72				1	161	22	11	161	0.5
10CR.20901.90	Union	7	SR-1315 (NEW TOWN RD)	FROM SR 1321 (CUTHBERTSON RD) TO PAVEMENT JOINT EAST OF BRIDGE **MILEPOST 8.600 TO MILEPOST 9.31**	5	YES	NO	NO	0.71	21	345		25	1.50					19			1,352			800		112	310							105	14	7	105	0.5
10CR.20901.91	Union	8	SR-1315 (NEW TOWN RD)	FROM SR 1329 (BILLY HOWIE RD) TO SR 1008 (WAXHAW INDIAN TRAIL RD) **MILEPOST 6.540 TO MILEPOST 7.580**	5	YES	NO	NO	1.04	21	510		79	2.10					19			2,167			1,341		183	460						1	157	21	11	157	0.5
10CR.20901.92	Union	9	SR 1003 (WHITESTO RE RD)	FROM SR 1929 (PHILADELPHIA CHURCH RD) TO BRIDGE **MILEPOST 3.490 TO MILEPOST 4.4**	14	YES	NO	NO	0.91	21	440	110	45	1.80					19	400	1,805		1,091				170	600							270	27	14	270	0.7
10CR.20901.93	Union	10	SR 1003 (WHITE STORE RD)	FROM BRIDGE TO SR 1937 (OLD PAGELAND MARSHVILLE RD) **MILEPOST 4.400 TO MILEPOST 6.110**	14	YES	NO	NO	1.71	21	846	110	165	3.50	373				19	758	3,336		2,019				315	1,100		36			1	1	519	52	26	519	1.0
10CR.10901.32	Union	11	US 74	FROM BEGINNING OF 5 LANE SECTION IN WINGATE TO END OF 5 LANE SECTION IN WINGATE **MILEPOST 18.1010 TO MILEPOST** 16.251	7,8	NO	NO	NO	1.85	69-78	41			0.40	75,274											6,960		411	1,010			200	1	1	1	33	5	3	33	0.5
10CR.10901.33	Union	12	US 74 E	FROM EAST OF CITY LIMITS TO WINGATE 5 LANE SECTION **MILEPOST 14.821 TO MILEPOST** 16.291	11,12,13	NO	NO	NO	1.47	34	271			3.00		11,267			255			1,767			3,024	567	300	485							221	30	15	221	0.6
10CR.10901.34	Union	13	US 74 W	FROM WINGATE 5 LANE SECTION TO EAST OF CITY LIMITS **MILEPOST 4.961 TO MILEPOST 6.431**	9,10	YES	NO	NO	1.47	34	719		184	2.90					268			5,356			3,203		446	567							221	30	15	221	0.6
10CR.10901.35	Union	14	NC 200 NORTH	FROM US 74 TO OLIVE BRANCH RD **MILEPOST 19.978 TO MILEPOST 21.048**	5,6	YES	NO	NO	1.07	23-68	495		70	2.00	118		2,127		31			3,369			2,040		282	500		36			2	12	152	21	11	152	0.5
10CR.10901.36	Union	15	NC 200 NORTH	FROM BAUCOM DEESE RD TO OLIVE BRANCH RD **MILEPOST 23.319 TO MILEPOST 21.019**	4,5	NO--TYP 4 YES--TYP 5	NO	NO	2.3	26-48	1,026		368	4.60					42			4,778			3,524		437	886		180			1	2	345	46	23	345	0.9
GRAND TOTAL									**19.73**		**7,178**	**428**	**1,420**	**35.40**	**76,002**	**11,267**	**2,127**	**6,166**	**867**	**1,158**	**9,271**	**23,745**	**8,920**	**1,175**	**24,349**	**767**	**3,735**	**9,479**	**2**	**450**	**200**	**15**	**9**	**34**	**3,041**	**388**	**227**	**3,041**	**9.3**

PROJECT NO.	SHEET NO.	TOTAL NO.
10CR.10901.32-10CR.10901.36	17	
10CR.20901.84-10CR.20901.93		

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4399000000-N TEMPORARY TRAFFIC CONTROL LS	4685000000-E 4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4686000000-E 4" X 120 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4695000000-E 8" X 90 M YELLOW THERMO LF	8" X 90 M WHITE THERMO LF	4697000000-E 8" X 120 M WHITE THERMO LF	4710000000-E 24" X 120 M WHITE THERMO LF	4721000000-E THERMO MSG SCHOOL 120 M EA	THERMO MSG ONLY 120 M EA	4725000000-E THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	4810000000-E 4" YELLOW PAINT LF	4" WHITE PAINT LF	4900000000-N YELLOW & YELLOW MARKERS EA	CRYSTAL & RED MARKERS EA
10CR.20901.84	Union	1	SR 1353 (ROGERS RD)	FROM PAVEMENT JOINT SOUTH OF SR 1009 (OLD CHARLOTTE HWY) TO SR 1377 WESLEY CHAPEL RD) **MILEPOST 0.000 TO MILEPOST 2.04**	2.04	20-48	*	19,550		1,450	26,200	708		96	255	12		16	4			26,200	1,300	165	80
10CR.20901.85	Union	2	SR-1362 (CHESTNUT LANE)	SR1009 (OLD CHARLOTTE HWY) TO PAVEMENT JOINT NORTHEAST OF SR 1357 (POTTER RD) **MILEPOST 0.000 TO MILEPOST 0.840**	0.84	23		8,871			8,871				20									56	
10CR.20901.86	Union	3	SR-1362 (CHESTNUT LANE)	FROM PAVEMENT JOINT SOUTHWEST OF SR 1357 (POTTER RD) TO SR 1344 (MATTHEWS WEDDINGTON RD) **MILEPOST 1.150 TO MILEPOST 2.680**	1.53	23-34		13,500		400	16,000	280						3						123	23
10CR.20901.87	Union	4	SR-1377 (WESLEY CHAPEL RD)	FROM SR 1353 (ROGERS RD) TO PAVEMENT JOINT 0.33 MILES SOUTHWEST OF SR1353(ROGERS RD) **MILEPOST 1.680 TO MILEPOST 1.350**	0.33	23-36		3,500		65	3,730			100	20			2						25	4
10CR.20901.88	Union	5	SR-1624 (STAFFORD ST)	FROM HWY 200 NORTH TO SR 2706 (SUTHERLAND) **MILEPOST 0.000 TO MILEPOST 1.440**	1.44	20		14,900			11,169											11,169		94	
10CR.20901.89	Union	6	SR-1315 (NEW TOWN RD)	FROM SR 1008 (WAXHAW INDIAN TRAIL RD) TO SR 1321 (CUTHBERTSON RD) **MILEPOST 7.580 TO MILEPOST 8.600**	1.02	21-32		11,550		195	13,450	216			73			2				13,200	170	83	12
10CR.20901.90	Union	7	SR-1315 (NEW TOWN RD)	FROM SR 1321 (CUTHBERTSON RD) TO PAVEMENT JOINT EAST OF BRIDGE **MILEPOST 8.600 TO MILEPOST 9.31**	0.71	21		7,392			6,642											7,392		47	
10CR.20901.91	Union	8	SR-1315 (NEW TOWN RD)	FROM SR 1329 (BILLY HOWIE RD) TO SR 1008 (WAXHAW INDIAN TRAIL RD) **MILEPOST 6.540 TO MILEPOST 7.580**	1.04	21		11,355			11,355				91							11,004		69	
10CR.20901.92	Union	9	SR 1003 (WHITESTORE RD)	FROM SR 1929 (PHILADELPHIA CHURCH RD) TO BRIDGE **MILEPOST 3.490 TO MILEPOST 4.4**	0.91	21		9,655			9,655				55							9,504		60	
10CR.20901.93	Union	10	SR 1003 (WHITE STORE RD)	FROM BRIDGE TO SR 1937 (OLD PAGELAND MARSHVILLE RD) **MILEPOST 4.400 TO MILEPOST 6.110**	1.71	21		18,269			18,368				120	6						18,368		115	
10CR.10901.32	Union	11	US 74	FROM BEGINNING OF 5 LANE SECTION IN WINGATE TO END OF 5 LANE SECTION IN WINGATE **MILEPOST 18.1010 TO MILEPOST 16.251**	1.85	69-78	*	2,320		6,200	25,278			150	200			57				24,203	6,000	243	71
10CR.10901.33	Union	12	US 74 E	FROM EAST OF CITY LIMITS TO WINGATE 5 LANE SECTION **MILEPOST 14.821 TO MILEPOST 16.291**	1.47	34	*	7,800	7,800	4,075								10	9	20			2,200		300
10CR.10901.34	Union	13	US 74 W	FROM WINGATE 5 LANE SECTION TO EAST OF CITY LIMITS **MILEPOST 4.961 TO MILEPOST 6.431**	1.47	34	*	7,800	7,800	3,525			310					11	5	20			3,525		248
10CR.10901.35	Union	14	NC 200 NORTH	FROM US 74 TO OLIVE BRANCH RD **MILEPOST 19.978 TO MILEPOST 21.048**	1.07	23-68	*	10,700		300	11,640				215		4	7	4	2	4	11,640	680	74	41
10CR.10901.36	Union	15	NC 200 NORTH	FROM BAUCOM DEESE RD TO OLIVE BRANCH RD **MILEPOST 23.319 TO MILEPOST 21.019**	2.3	26-48		23,900		553	20,789	168			40			4	2			16,425		160	31
GRAND TOTAL					**19.73**		**1**	**171,062**	**15,600**	**16,763**	**183,147**	**1,372**	**310**	**346**	**1,089**	**18**	**4**	**112**	**24**	**42**	**4**	**149,105**	**13,875**	**1,314**	**810**
								186,662		**199,910**		**1,682**				**22**		**182**				**162,980**		**2,124**	