

DETAIL A

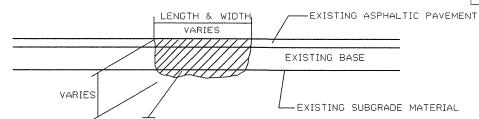
PATCHING EXISTING PAVEMENT

TATE PROJECT WBS SHEET NUMBE

NC 12CR.20551.13 3

12C.055087

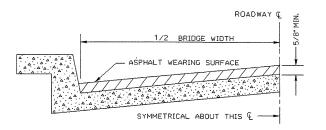
12CR.20361.17



MILL EXISTING ASPHALT PAVEMENT AND REMOVE
EXISTING LOOSE BASE AND/OR SUBGRADE MATERIAL AND REPLACE WITH ACBC
OR ACSC AS DIRECTED BY THE ENGINEER

DETAIL B

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.

NOTES

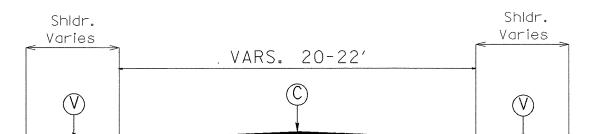
ALL UNPAVED S.R. ROADS TO BE SURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENDINEER.
EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF OUANTITIES.
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE NOTED.
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

	PAVEMENT SCHEDULE
С	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
٧	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)
E	PROP. APPROX. 8" OF ASPHALT BASE COURSE, TYPE B 25.0B, AT AN AVERAGE RATE OF 456 LBS PER SQ. YD. IN EACH OF TWO LIFTS
F	ASPAHLT SURFACE TREATMENT TYPE, MATCOAT #6

General Notes:

- * Pavement edge slopes are 1:1 unless specified otherwise.
- * Mill bridge approaches 100' to provide a smooth transition or as directed by the Engineer.

2011 - 2012
Resurfacing Program
Typical Sections
Lincoln & Gaston County NC

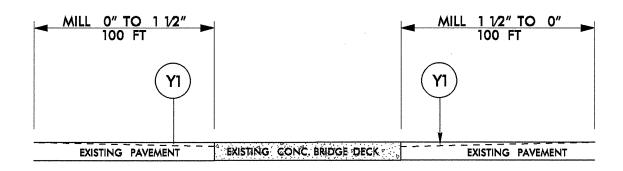


PAVEMENT

TYPICAL SECTION NO. 3

EXISTING

MAP # 4 - (entire map)



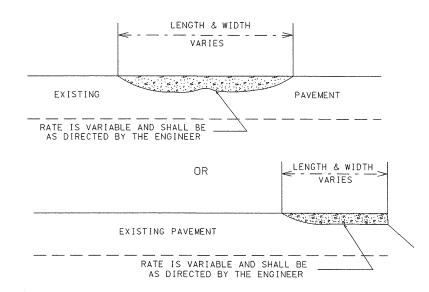
DETAIL D
MILLING BRIDGE APPROACHES

General Notes:

- * Pavement edge slopes are 1:1 unless specified otherwise.
- * Mill bridge approaches 100' to provide a smooth transition or as directed by the Engineer.

DETAIL C

ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B. (LEVELING COURSE)



	PAVEMENT SCHEDULE										
С	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.										
٧	AGGREGATE SHOULDER BORROW (SHOULDER RECONSTRUCTION)										
Y1	PROP. APPROX. 0 - 1.5" OF INCIDENTAL MILLING										

2011 - 2012
Resurfacing Program
Typical Sections
Lincoln & Gaston County NC

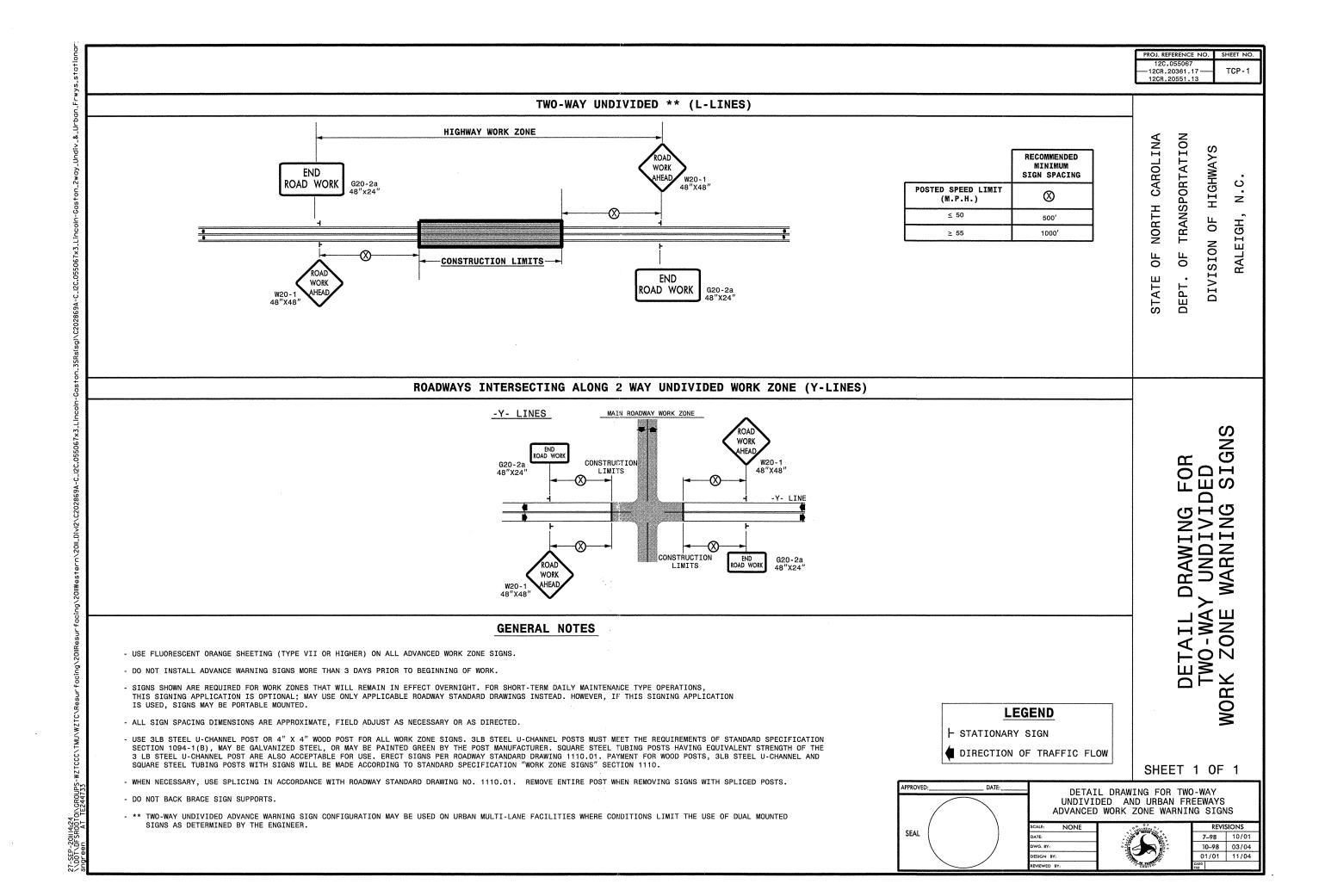
PROJECT NO.	SHEET NO.	TOTAL NO.
12CR.20551.13, 12C.055067	Е	
12CR.20361.17)	

SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	FINAL	LENGTH	WIDTH	AGGREGATE	INCIDENTAL	SHOULDER	INCIDENTAL	BASE	SURFACE	LEVELING	ASPHALT	PATCHING	AST MAT	ADJ. OF
						SURFACE			SHOULDER	STONE BASE	RECONSTRU	MILLING	COURSE,	COURSE,	COURSE, S9.5B	BINDER	EXISTING	COAT #6	METER OR
						TESTING			BORROW		CTION		B25.0B	S9.5B		FOR PLANT	PAVEMENT		VALVE BOX
						REQUIRED										MIX			
NO		NO			NO		MI	FT	TON	TONS	SMI	SY	TONS	TONS	TONS	TONS	TONS	SY	EA
12CR.20551.13	Lincoln	1	SR 1003 (BUFFALO SHOALS RD)	FROM NC 27 TO SR 1339	1	NO	2.52	22	190	100	5.04			3,053	150	193	200	32,525	4
12CN.20331.13	Lincoln	3	SR 1354 (ASBURY CH. RD)	FROM NC 27 TO SR 1351	2	NO	1.90	21	144	100	3.80	525	1,650	2,176	400	229	500		
	TOTAL FOR PROJ NO. 12CR.20551.13					4.42		334	200	8.84	525	1,650	5,229	550	422	700	32,525	4	
12C.055067	Lincoln	2	SR 1002 (SHOAL RD)	FROM NC 182 TO GASTON CO.	2	NO	2.47	21	187	100	4.94		1,950	2,829	400	282	300		
	TOTAL FOR PROJ NO. 12C.055067					2.47	<u> </u>	187	100	4.94		1,950	2,829	400	282	300			
12CR.20361.17	Gaston	4	SR 1002 (BUD BLACK RD)	FROM NC 150 TO LINCOLN CO.	3	NO	1.41	Vars. 20-22	106	40	2.82	500		1,606	80	102	325		
TOTAL FOR PROJ NO. 12CR.20361.17					1.41		106	40	2.82	500		1,606	80	102	325				
TOTAL FOR PI	OJ NO. 120	CR.2055	51.13, 12C.055067, 12CR.20361.17				8.30		627	340	16.60	1,025	3,600	9,664	1,030	806	1,325	32,525	4
	GRAND TOTAL					8.30		627	340	16.60	1,025	3,600	9,664	1,030	806	1,325	32,525	4	

THERMOPLASTIC AND PAINT QUANTITIES

							4685000000-E	4686000000-E		4710000000-E	4725000000-E		481000000-E		4905000000-N
PROJECT	COUNTY	МАР	ROUTE	DESCRIPTION	LENGTH	WIDTH	4" X 90 M	4" X 120 M	4" X 120 M	24" X 120 M	THERMO	THERMO RT	4" WHITE	4"	SNOW
							WHITE	YELLOW	WHITE	WHITE THERMO	STR & LT	ARROW 90	PAINT	YELLOW	PLOWABLE
	,						THERMO	THERMO	THERMO		ARROW 90	M		PAINT	MARKERS
											M				
NO		NO					LF	LF	LF	LF	EA	EA	LF	LF	EA
12CR.20551.13	Lincoln	1	SR 1003 (BUFFALO SHOALS RD)	FROM NC 27 TO SR 1339	2.52	22	26,750	26,500	150	26	2	. 2			175
12CR.20551.13	Lincoln	3	SR 1354 (ASBURY CH. RD)	FROM NC 27 TO SR 1351	1.90	21				12			40,200	40,000	
	TOTAL FOR PROJ NO. 12CR.20551.13				4.42		26,750	26,500	150	38	2	2	40,200	40,000	175
	TOTAL FOR	(FIXO)	10. 12CN.20331.13					26	,650			4	80,200		
12C.055067	Lincoln	2	SR 1002 (SHOAL RD)	FROM NC 182 TO GASTON CO.	2.47 .	21				12			52,500	52,300	
	TOTAL FOR PROJ NO. 12C.055067				2.47					12			52,500	52,300	
	TOTALTO	JK F KO.											104,	,800	
12CR.20361.17	Gaston	4	SR 1002 (BUD BLACK RD)	FROM NC 150 TO LINCOLN CO.	1.41	Vars. 20-22				16			30,000	29,750	
	TOTAL FOR PROJ NO. 12CR.20361.17				1.41					16			30,000	29,750	
	IOIAL FOR	(PROJ I	NO. 12CR.20381.17										59,	750	
,															
TOTAL FOR BR	OLNO 120	D 20EE	1 12 120 055067 1209 20261 17		8.30		26,750	26,500	150	66	2	2	122,700	122,050	175
TOTAL FOR PROJ NO. 12CR.20551.13, 12C.055067, 12CR.20361.17								26,650		4		244,750			
												_			
		CDANI	TOTAL		8.30		26,750	26,500	150	66	2	2	122,700	122,050	175
GRAND TOTAL								26,650 4			4	244			



GENERAL NOTES

- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS: A. TRUCK MOUNTED SIGNS
 - B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 - C. GROUND MOUNTED ADVANCE WARNING SIGNS
 - (MUST CIRCLE TO PICK UP SIGNS)
 - D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS) (MUST USE CIRCLE TO PICK UP SIGNS)
- (2) ALL ADVANCE WARNING SIGNS MUST BE 48" X 48" WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48" X 48" SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.
- (4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND TO
- (5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.
- (6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.

(1)(2)(3)(4)(8)

W26-1CSP 48" X 48"

- (7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.
- (8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.
- (9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.
- (10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED. BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS
- (12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.
- (13) INFORMATIONAL SIGNS SHOULD BE ACTIVITY SPECIFIC, i.e.
 "PAINT CREW IN ROAD". SIGNS MAY BE RECTANGULAR OR DIAMOND SHAPE.
 SIGN SIZE SHOULD BE BASED ON THE MOTORIST ABILITY TO RECOGNIZE
 SIGN WHEN TRAVELING FIVE (5) MILES ABOVE POSTED SPEED LIMIT.
- (14) IF A LEAD VEHICLE IS ADDED TO OPERATION, IT SHOULD HAVE THE SAME ADVANCE WARNING SIGNS AS THE APPLICATION VEHICLE SHOWN BELOW.

LEGEND

PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.



DIRECTION OF TRAFFIC FLOW



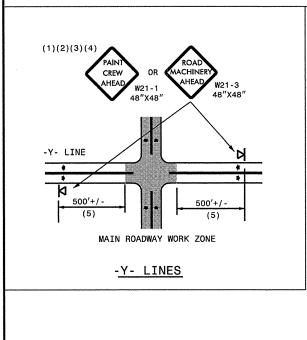
APPLICATION VEHICLE WITH LIGHT BAR

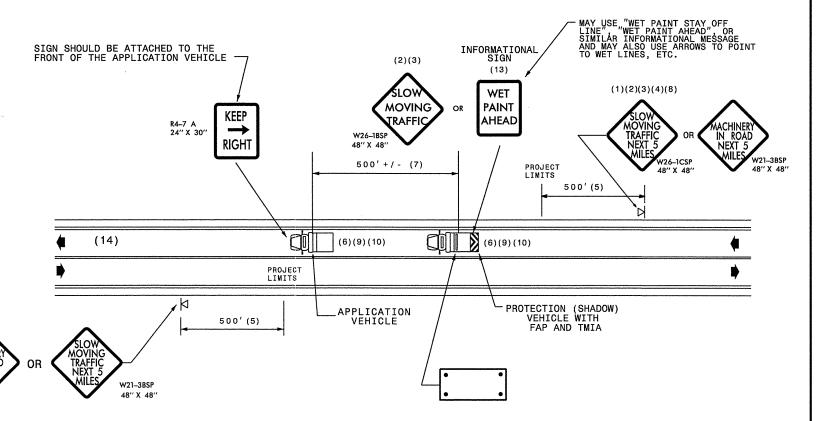


PROTECTION VEHICLE WITH TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) AND LIGHT BAR (SEE ROADWAY STANDARD NO. 1165.01). TMIA MUST BE NCHRP-350 TEST LEVEL 3 (60+MPH)



FLASHING ARROW PANEL, TYPE "B" (60"X30" MIN.), "CAUTION MODE"





MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON TWO-LANE TWO-WAY ROADWAYS

DRAWING NUMBER 6
IMPLEMENTATION DATE: 07/01/97 REVISED: 11/03/04