

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	I-6028C	1
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
47977.1.4	0064211	PE
47977.2.4	0064211	ROW
47977.3.4	0064211	CONST

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

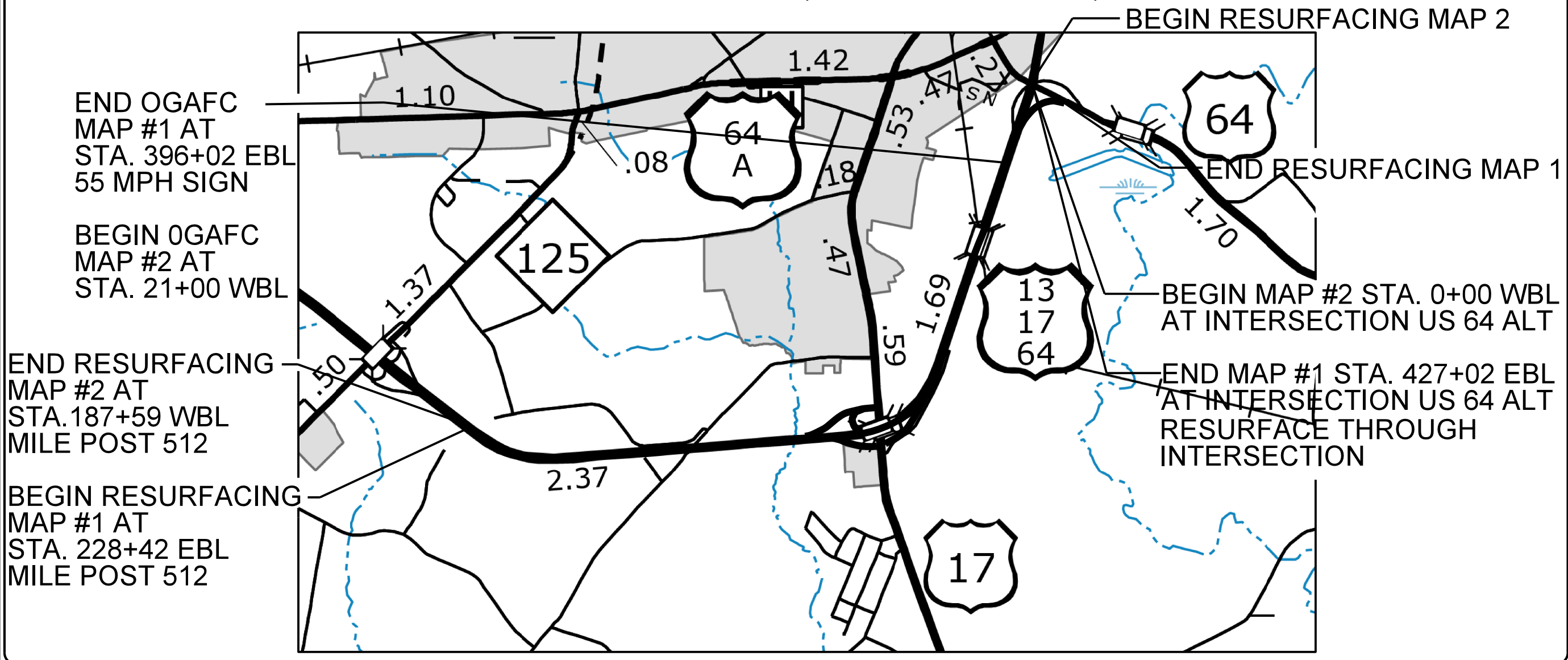
MARTIN COUNTY

LOCATION: US 13/64 EBL/WBL FROM MILE POST 512
TO US 64 AND US 13/17 INTERCHANGE

TYPE OF WORK: DRAINAGE, PAVEMENT REHABILITATION, SHOULDER & SLOPE REPAIR

TIP PROJECT: I-6028C

CONTRACT: DA00512



GRAPHIC SCALES

NTS

PROJECT LENGTH

LENGTH ROADWAY MAP #1 = 3.654 MI.
LENGTH STRUCTURES MAP #1 = 0.107 MI.
LENGTH MAP #1 = 3.761 MI.
LENGTH ROADWAY MAP #2 = 3.448 MI.
LENGTH STRUCTURES MAP #2 = 0.105 MI.
LENGTH MAP #2 = 3.553 MI.
LENGTH PROJECT I-6028C = 7.314 MI.

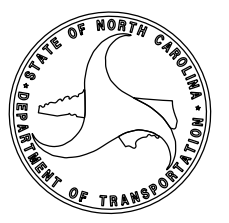
Prepared In the Office of:
DIVISION OF HIGHWAYS
113 Airport Dr., Edenton NC, 27944

2018 STANDARD SPECIFICATIONS

W. B. HOBBS, PE
DIVISION PROJECT TEAM LEAD

CHRIS SLACHTA
DIVISION CONTRACT ENGINEER

S. P. FENWICK, PLS
DIVISION DESIGN ENGINEER



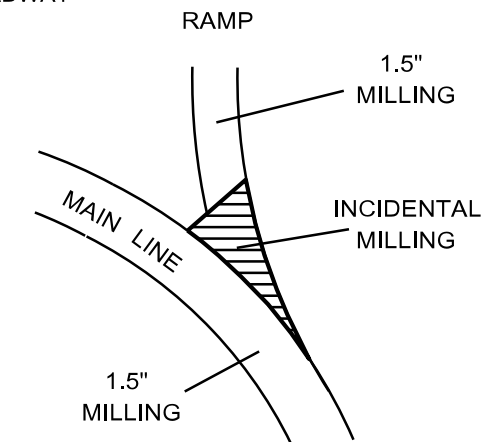
07-DEC-2021 08:26 S:\Contractors\6\Proposed Resurfacing\DA00512-I-6028C US 64 Martin\Design Files\I-6028C_DL.pshl.dgn \$\$\$USERNAME\$\$\$

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
B1	PROP. APPROX. 0.75" OPEN GRADE FRICTION COURSE, TYPE FC-1 MODIFIED, AT AN AVERAGE RATE OF 90 LBS. PER SQ. YD.
V1	MILLING ASPHALT PAVEMENT. 1.5" IN DEPTH.
U	EXISTING PAVEMENT.
M	EXISTING RUMBLE STRIPS TO BE REPLACED

NOTES:

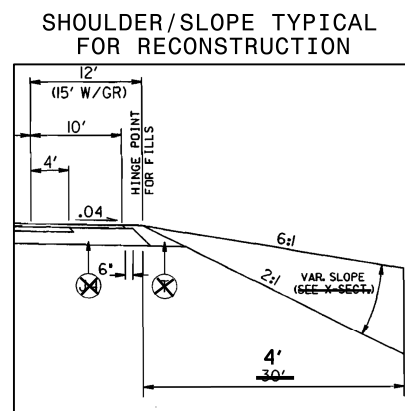
- * ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
- * EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- * EXISTING MILLED RUMBLE STRIPS TO BE MILLED & REPLACED
- * 1.5" MILLING AND 1.5" OF S9.5C TO BE APPLIED, + 38' WIDE OR THE FULL WIDTH OF THE ROADWAY
- * ACCELERATION & DECELERATION LANES ARE INCLUDED AS INCIDENTAL MILLING ALONG WITH OTHER IRREGULAR AREAS (SEE DETAIL "A")
- * OPEN GRADE ASPHALT FRICTION COURSE TO BE APPLIED TO TRAVEL LANES AND INCLUDES ACCELERATION & DECELERATION LANES
- * ASPHALT CONCRETE LEVELING COURSE, TYPE S4.75A TO BE USED AT INTERSECTION US 64/13/17 WITH US 64 ALT.
- * SHOULDER & SLOPE RECONSTRUCTION LOCATION AND AREAS ARE SUBJECT TO CHANGE AT TIME OF CONSTRUCTION BY DISCRETION OF THE ENGINEER
- * SIGNAL LOOPS TO BE INSTALLED PRIOR TO FINAL LIFT OF SURFACE COURSE.



DETAIL A

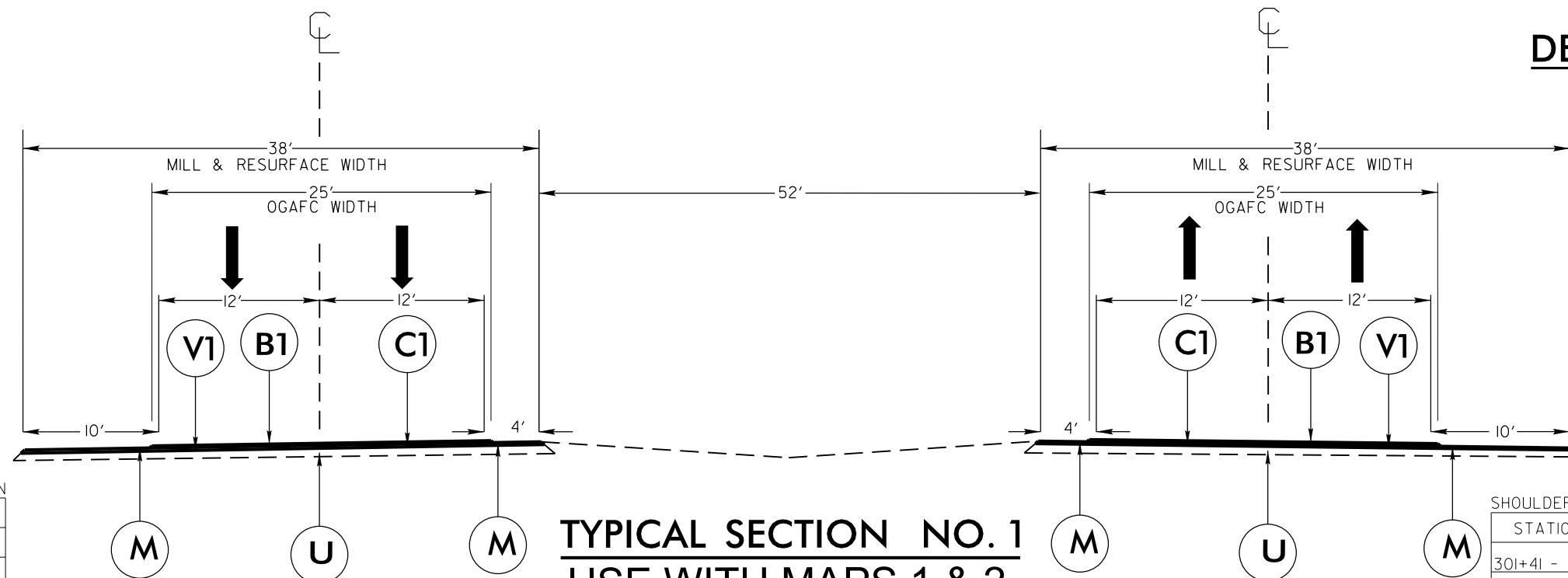
CONSTRUCTION SEQUENCE:

COMPLETE WORK FOR DRAINAGE, GRADE SHOULDER & SLOPES, SHOULDER BERM GUTTER AND GUARDRAIL REPLACEMENT ON EACH MAP PRIOR TO MILLING AND RESURFACING.

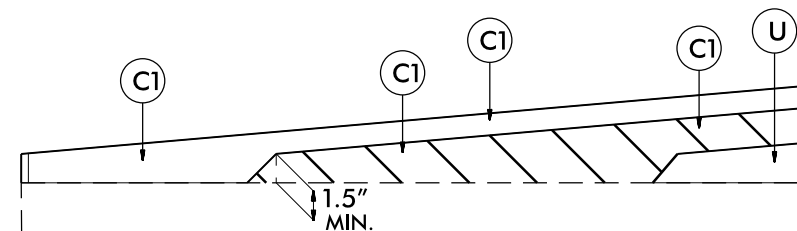


-WBL- SHOULDER & SLOPE RECONSTRUCTION

STATION	RT/LT	SY
ON RAMP(515) US 64/13		550
20+36 - 35+32	RT	1,496
39+15 - 51+35	RT	200
48+70 - 50+47	RT	300
53+57 @ END G/R	RT	50
59+14 @ PIPE	RT	50
65+72 - 88+04	RT	2,232
88+04 - 89+76	RT	300
101+07 - 101+67	RT	135
105+38 - 117+73	RT	300
TOTAL		5,613



TYPICAL SECTION NO. 1
USE WITH MAPS 1 & 2



Wedging Detail For Resurfacing

-EBL- SHOULDER & SLOPE RECONSTRUCTION

STATION	RT/LT	SY
301+41 - 317+00	RT	1,559
333+50 - 334+50	RT	115
339+29 - 351+51	RT	2,739
359+50 - 360+50	RT	225
363+47 - 376+12	RT	1,265
370+50 - 371+50	LT	115
TOTAL		6,018

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PROJECT NO. 1-6028C	SHEET NO. 3
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SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIALS TRANSFER VEHICLE REQUIRED	LENGTH	WIDTH	MOBILIZATION	CLEARING & GRUBBING .. ACR (0.10)	BORROW EXCAVATION	DRAINAGE DITCH EXCAVATION	SELECT GRANULAR MATERIAL	15" RC PIPE CULVERTS, CLASS III	15" CAA PIPE CULVERTS, .064" THICK	15" CAA PIPE ELBOWS, .064" THICK	GENERIC GRADING ITEM, GRADE SHOULDER AND SLOPES	1 1/2" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	OGAFC, TYPE FC-1 MOD	ASPHALT PLANT MIX, PAVEMENT REPAIR	PATCHING EXISTING PAVEMENT	MILLED RUMBLE STRIPS (ASPHALT CEMENT CONCRETE)	GENERIC PAVING ITEM, ASPHALT CONCRETE LEVELING COURSE, TYPE S4.75A	MASONRY DRAINAGE STRUCTURE, TRAFFIC BEARING	FRAME WITH TWO GRATES 840.20 STD	GENERIC DRAINAGE ITEM, MASONRY DRAINAGE STRUCTURE REPAIR	GENERIC DRAINAGE ITEM, REPAIR DI (TO RECEIVE PIPE)	SHOULDER BERM GUTTER	TEMPORARY CRASH CUSHION	REMOVE & RESET TEMPORARY CRASH CUSHION		
											MI	FT	LS	LS	CY	CY	CY	LF	LF	EA	SY	SY	SY	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON
47977.3.4	Martin	1	US13/64 EBL	FROM MILE POST 512 TO US 64 AND US 13/17 INTERCHANGE	1	2	MU	NO	NO	YES	3,761	38	1	1	236		12		60	2	6,018	83,845	13,345	9,014	545	124	2,040	30	89	39,716	62		1	1	8			200	1	
47977.3.4	Martin	2	US13/64 WBL	FROM US 64 AND US 13/17 INTERCHANGE TO MILE POST 512	1	2	MU	NO	NO	YES	3,553	38	*	*	423	450.00	145	776	60	2	5,613	79,208	18,024	9,019	545	117	1,914	300	89	37,520	62	6	7	5	4			932		5
TOTAL FOR PROJ NO. 47977.3.4											7,314		1	1	659	450	157	776	120	4	11,631	163,053	31,369	18,033	1,090	241	3,954	330	178	77,236	124	7	8	13	4			1,132	1	5

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIALS TRANSFER VEHICLE REQUIRED	LENGTH	WIDTH	STEEL BEAM GUARDRAIL	STEEL BEAM GUARDRAIL, SHOP CURVED	GUARDRAIL END UNITS, TYPE CAT-1	GUARDRAIL END UNITS, TYPE TL-3	GUARDRAIL END UNITS, TYPE TL-2	GUARDRAIL ANCHOR UNITS, TYPE B-77	GUARDRAIL ANCHOR UNITS, TYPE B-83	REMOVE EXISTING GUARDRAIL	RIP RAP, CLASS B	GEOTEXTILE FOR DRAINAGE	TEMPORARY SILT FENCE	SEDIMENT CONTROL STONE	COIR FIBER MAT	1/4" HARDWARE CLOTH	COIR FIBER WATTLE	SEEDING & MULCHING	RESPONSE FOR EROS CONTROL	GENERIC EROSION CONTROL ITEM (COMPOST SEEDING)	TOPSOIL	UNPAVED TRENCHING (1, 2" PVC)	JUNCTION BOX (STD SIZE)	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)	PORTABLE CONCRETE BARRIER	REMOVE & RESET PORTABLE CONCRETE BARRIER	
											MI	FT	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
47977.3.4	Martin	1	US13/64 EBL	FROM MILE POST 512 TO US 64 AND US 13/17 INTERCHANGE	1	2	MU	NO	NO	YES	3,761	38	8,863.5		8	8	1	1	6	9,546	2	7	1,222	5	100	270	600	0.5	3	6,018	550	10	1	300	10		600	
47977.3.4	Martin	2	US13/64 WBL	FROM US 64 AND US 13/17 INTERCHANGE TO MILE POST 512	1	2	MU	NO	NO	YES	3,553	38	8,344.0	200	9	8	3	1	9	9,407	2	7	8,100	5	12	200	1,620	0.5	4	5,613	109	10	1	300	10			3,000
TOTAL FOR PROJ NO. 47977.3.4											7,314		17,207.5	200	17	16	4	2	15	18,953	4	14	9,322.00	10	112	470	2,220	1	7	11,631	659	20	2	600	20	600	3,000	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIALS TRANSFER VEHICLE REQUIRED	LENGTH	WIDTH	WORK ZONE ADV/GEN WARNING SIGNS	WORK ZONE DIGITAL SPEED LIMIT SIGNS	TEMPORARY TRAFFIC CONTROL	THERMO PAVEMENT MARKING LINES (6", 90 MILS) WHITE	THERMO PAVEMENT MARKING LINES (6", 90 MILS) YELLOW	THERMO PAVEMENT MARKING LINES (12", 90 MILS)	GENERIC PAVEMENT MARKING ITEM, THERMO LINES, 24", 90 MILS	THERMO PAVEMENT MARKING SYMBOL, ELONGATED STR ARROW 90 MILS	THERMO PAVEMENT MARKING SYMBOL, MERGE ARROW 90 MILS	THERMO PAVEMENT MARKING SYMBOL, STR ARROW 90 MILS	THERMO PAVEMENT MARKING SYMBOL (90 MILS), LT ARROW	THERMO PAVEMENT MARKING SYMBOL (90 MILS), STR & RT ARROW	THERMO PAVEMENT MARKING SYMBOL (90 MILS), RT ARROW	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	PAINT PAVEMENT MARKING SYMBOL, ELONGATED STRAIGHT ARROW	PAINT PAVEMENT MARKING SYMBOL, MERGE ARROW	PAINT PAVEMENT MARKING SYMBOL, STR ARROW	PAINT PAVEMENT MARKING SYMBOL, LT ARROW	PAINT PAVEMENT MARKING SYMBOL, STR & RT ARROW	PAINT PAVEMENT MARKING SYMBOL, LT STR RT ARROW	PAINT PAVEMENT MARKING LINES, 12"	PAINT PAVEMENT MARKING LINES, 24"	GENERIC PAVEMENT MARKING ITEM, NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER			
											MI	FT	SF	EA	LS	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
47977.3.4	Martin	1	US13/64 EBL	FROM MILE POST 512 TO US 64 AND US 13/17 INTERCHANGE	1	2	MU	NO	NO	YES	3,761	38	212	2	1	25,460	20,368	1,800	150	1	3	2	2	2		50,920	40,736	1	3	2	2	2		1,800	150	248			
47977.3.4	Martin	2	US13/64 WBL	FROM US 64 AND US 13/17 INTERCHANGE TO MILE POST 512	1	2	MU	NO	NO	YES	3,553	38	197	2	*	29,486	23,589	1,800	150	6		1		1	58,972	47,178		6		1	1	1800	150	235					
TOTAL FOR PROJ NO. 47977.3.4											7,314		409	4	1	54,946	43,957	3,600	300	1	9	2	3	2	1	109,892	87,914	1	9	2	3	2	1	197,806	18	18	3,600	300	483

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
 G = GATING IMPACT ATTENUATOR TYPE 350
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH		WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS								IMPACT ATTENUATOR TYPE TL-3			REMOVE EXISTING GUARDRAIL	REMARKS		
				STRAIGHT	SHOP CURVED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE III	GREU TL-2	GREU TL-3	*	*	CAT-1	*	B-83	B-77	EA	G			NG	
WBL ON RAMP		US 64 OVERPASS	RT	585'																						585'	EAST END OF BRIDGE	
WBL ON RAMP		US 64 OVERPASS	LT	24'																						24'	EAST END OF BRIDGE	
WBL ON RAMP	US 64 OVERPASS		RT	472'																						472'	WEST END OF BRIDGE	
WBL ON RAMP	US 64 OVERPASS		LT	447'																						447'	WEST END OF BRIDGE	
WBL-E-	(-) 0+35	(-) 1+09	LT	104'	40'																					144'	NE QUAD OF INTERSECT US 64ALT & US 17	
WBL-E-	0+35	4+55	RT	325'	160'																					485'	SW QUAD OF INTERSECT US 64ALT & US 17	
WBL-E-	13+10	15+88	RT	278'																						278'		
WBL-E-	20+36	35+32	RT	1468'																						1468'	EAST END R/R OVERPASS	
WBL-E-	33+57	35+32	LT	212'																						212'	EAST END R/R OVERPASS	
WBL-E-	39+15	51+35	RT	1274'																						1274'	WEST END R/R OVERPASS	
WBL-E-	65+72	88+04	RT	2210'																						2210'	EAST END OVERPASS US 17	
WBL-E-	65+72	88+04	LT	216'																						216'	EAST END OVERPASS US 17	
WBL-E-	102+90	111+52	RT	862'																						862'		
WBL-E-	128+89	132+48	RT	359'																						359'	UNDERPASS SR 1001 (BEAR GRASS RD.)	
WBL-E-	132+48	134+02	LT	154'																						154'	UNDERPASS SR 1001 (BEAR GRASS RD.)	
			SUB TOTAL	9207'	200'																						9407'	
EBL-E-	277+61	282+06	RT	425'																						425'	END UNDERPASS SR 1001 (BEAR GRASS RD.)	
EBL-E-	281+65	283+55	LT	155'																						155'	UNDERPASS SR 1001 (BEAR GRASS RD.)	
EBL-E-	301+41	308+41	RT	1920'																						1920'	END ON OFF RAMP EXIT (514) FOR US 17 SOUTH	
EBL-E-	322+90	326+20	RT	330'																						330'	WEST END OVERPASS US 17 (EXIT 514)	
EBL-E-	324+46	326+20	LT	180'																						180'	WEST END OVERPASS US 17 (EXIT 514)	
EBL-E-	328+00	331+85	RT	385'																						385'	EAST END OVERPASS US 17 (EXIT 514)	
ON RAMP(514)	328+00	351+18	RT	2465'																						2465'		
EBL-E-	363+77	376+12	RT	1235'																						1235'	WEST END R/R OVERPASS	
EBL-E-	373+95	376+12	LT	217'																						217'	WEST END R/R OVERPASS	
EBL-E-	379+97	396+80	RT	1683'																						1683'	EAST END R/R OVERPASS	
EBL-E-	407+78	409+77	LT	199'																						199'		
EBL-E-	413+50	417+02	RT	352'																						352'		
			SUB TOTAL	9546'	0'																						9546'	
			SUB TOTAL	18753'	200'																						18953'	
			TOTAL	17207.5'	200'																							
		GREU TL-2	4 x 50' =	-200'																								
		GREU TL-3	16 x 50' =	-800'																								
		GREU CAT-1	17 x 6.5' =	-110.5'																								
		GRAU B-83	15 x 25' =	-375'																								
		GRAU B-77	2 x 30' =	-60'																								
		TOTAL		17207.5'	200'																							

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 6/21/00

4/04/06

COMPUTED BY: SPF DATE: 11/12/21
CHECKED BY: DATE:

PROJECT REFERENCE NO. 1-6028C
SHEET NO. 5

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUB-REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

Table with columns for STATION, LOCATION (L, R, OR CL), STRUCTURE NO., TOP ELEVATION, INVERT ELEVATION, C.A.A. PIPE, R.C. PIPE (CLASS III), R.C. PIPE (CLASS IV), ENDWALLS, QUANTITIES FOR DRAINAGE STRUCTURES, TYPE OF GRATE, PIPE REMOVAL LIN. FT., and REMARKS. Includes rows for stations like -EBL- STA. 248+59 and -WBL- STA. 31+75.

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DRAINAGE DETAIL SHEET



8/17/99
 REVISIONS
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DRAINAGE DETAIL

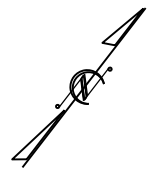


2 TONS CLASS B STONE
 7 SY GEOTEXTILE FOR DRAINAGE
 EXTEND TO TOE OF SLOPE

REVISIONS

08 DEC 2021 11:32 Proposed Resurfacing\DA00512-6028C_US_64_Mar-tin\Design_Files\1-6028C_DI_1.pbf.dgn 8/17/99

DRAINAGE DETAIL SHEET

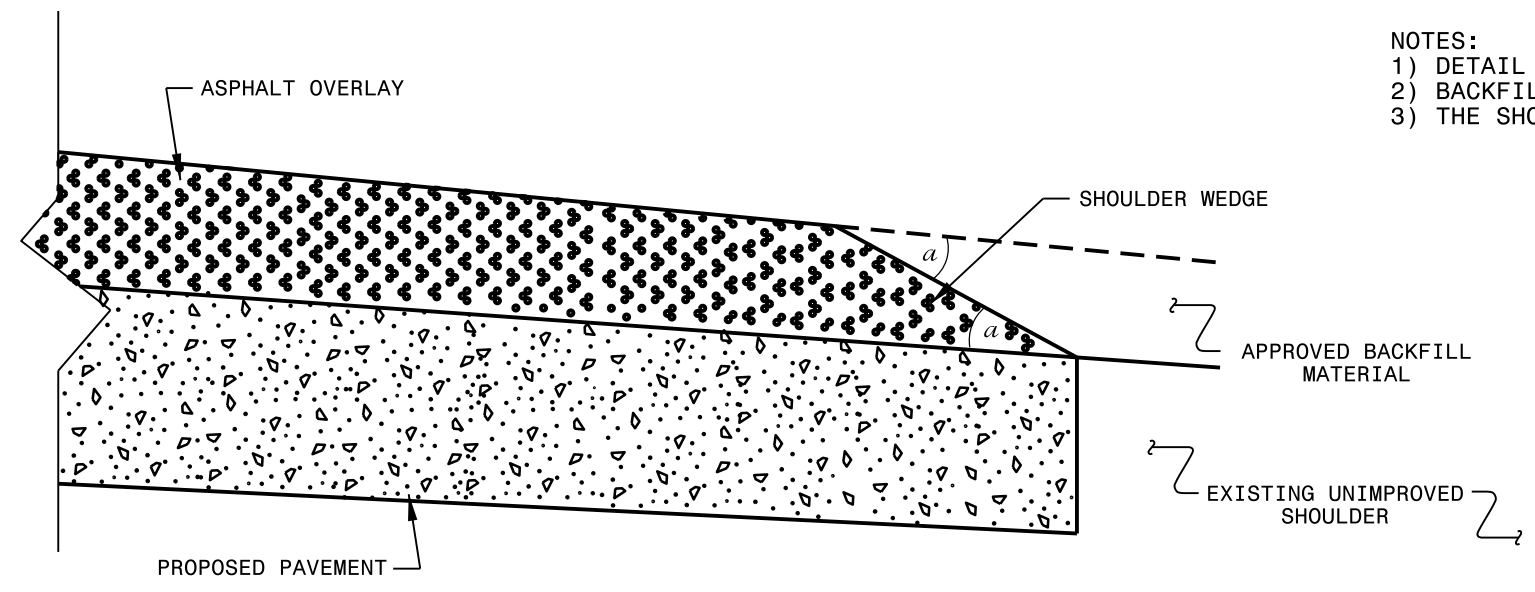


REVISIONS

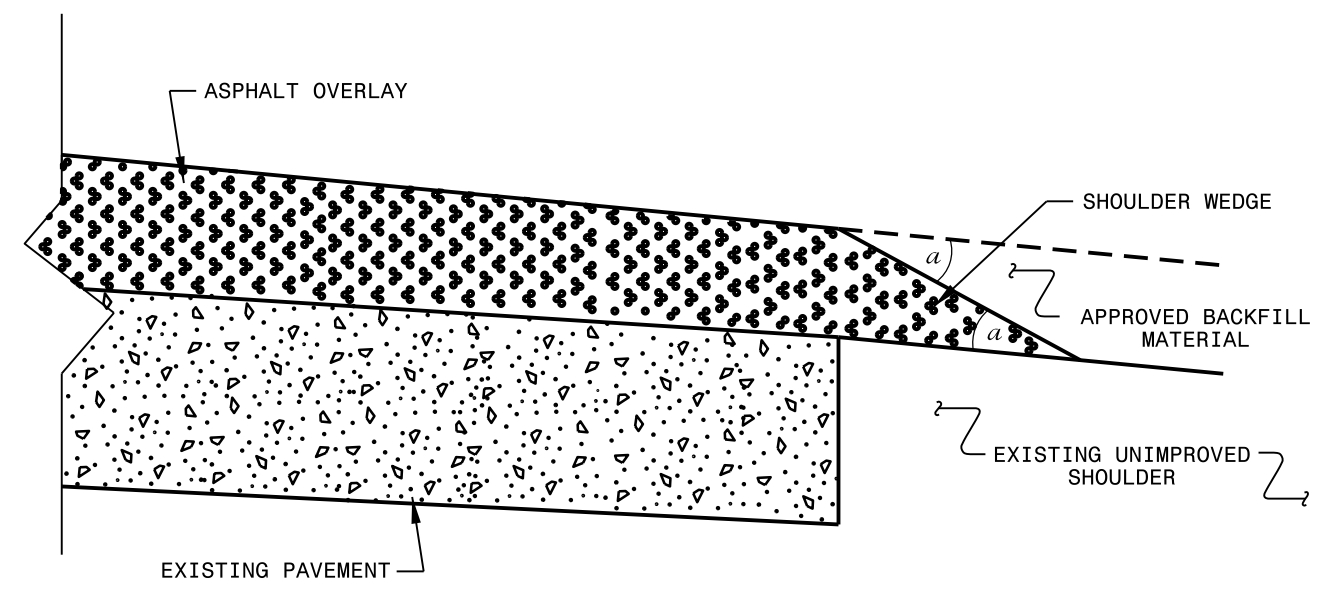
8/17/99

OR:DEC-2021/11/28
 CR:OCT-2021/11/28
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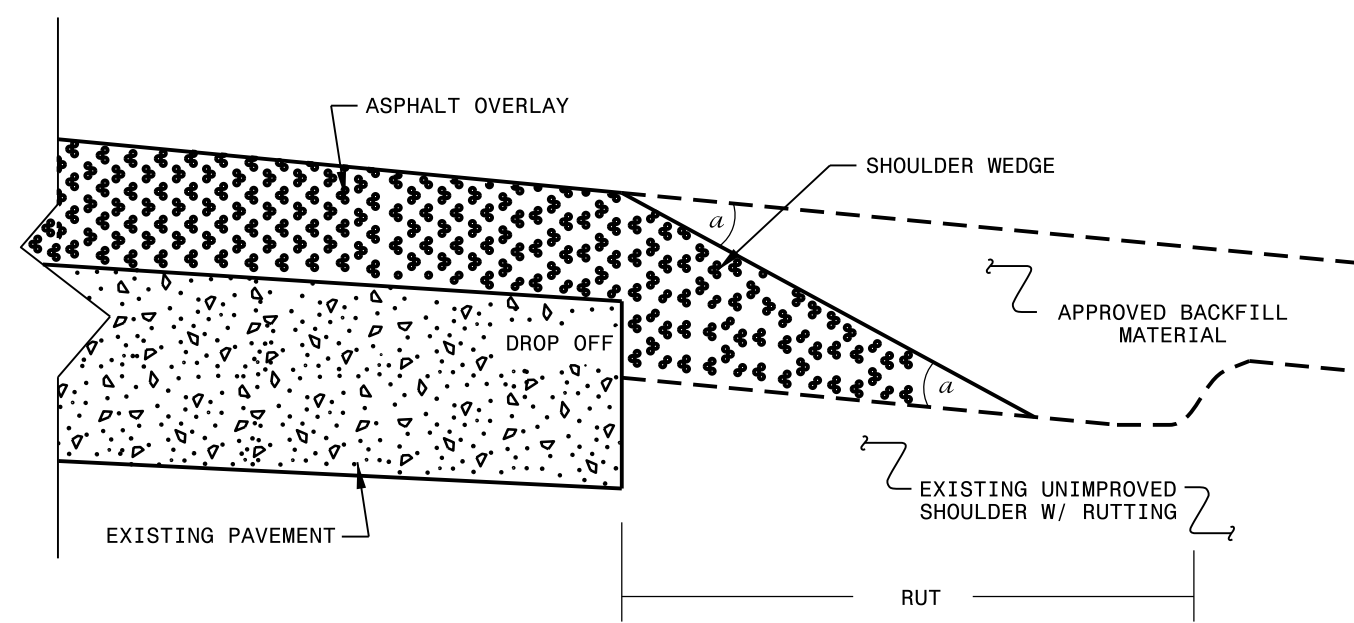
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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)

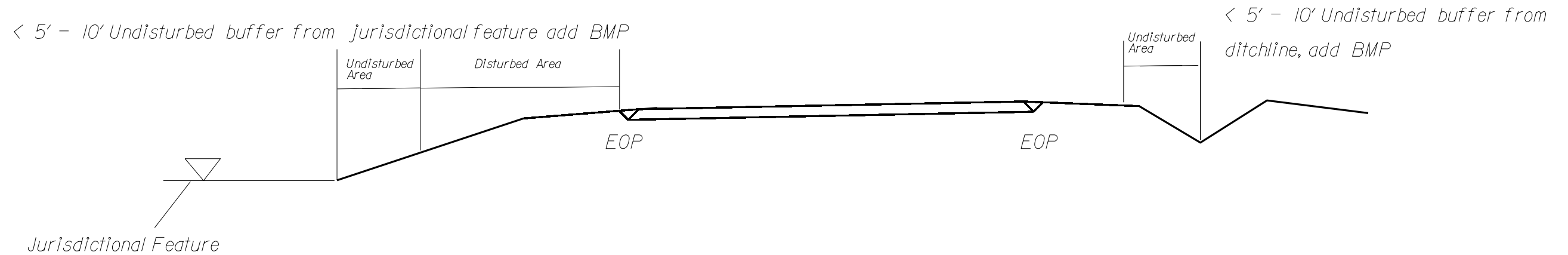
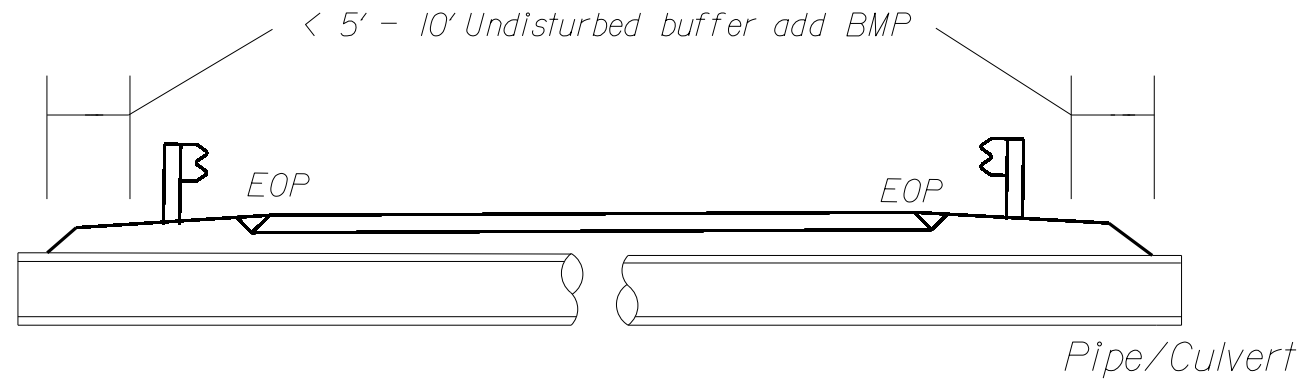
- SHOULDER WEDGE ANGLE = 30°

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.: s:\usr\details\stand\shoulderwedgedetail.dgn	

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

BMP Options: Wattle or Silt Fence

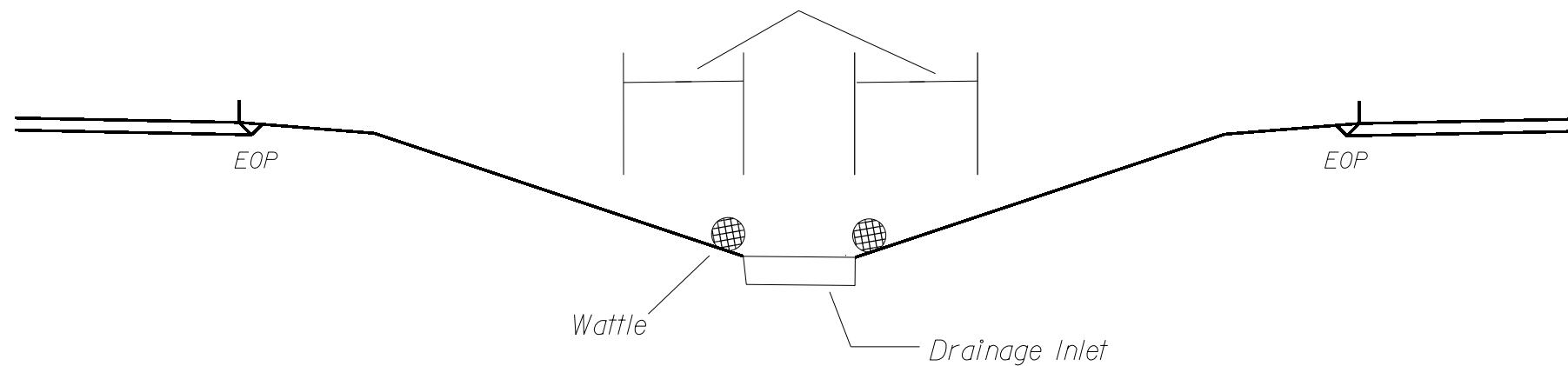
EROSION CONTROL DETAIL



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

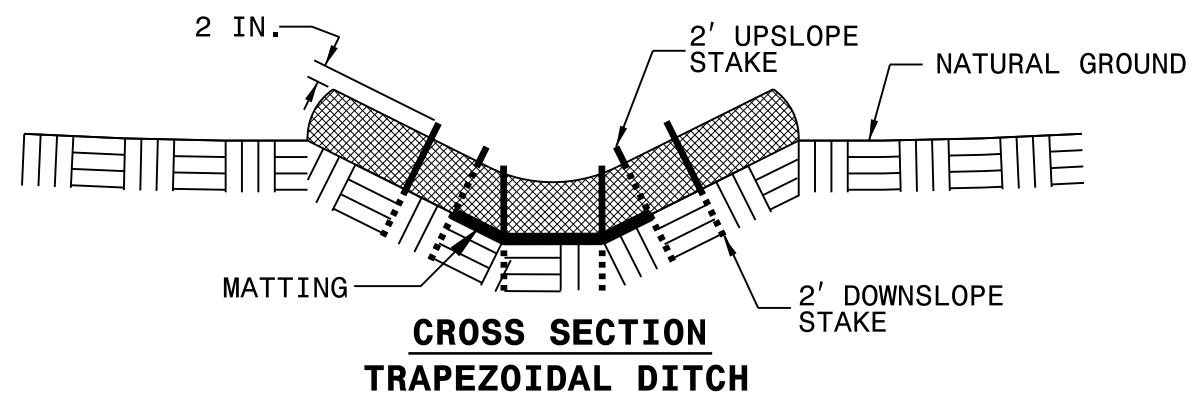
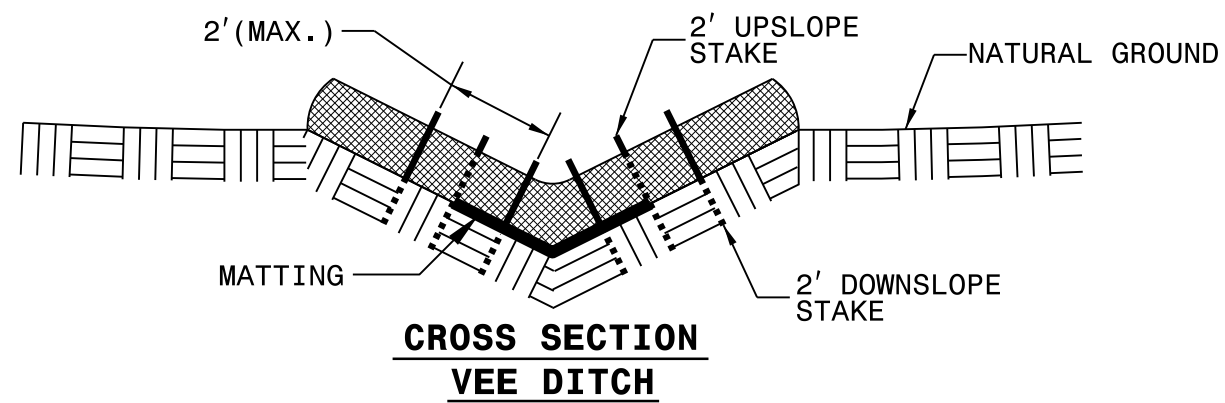
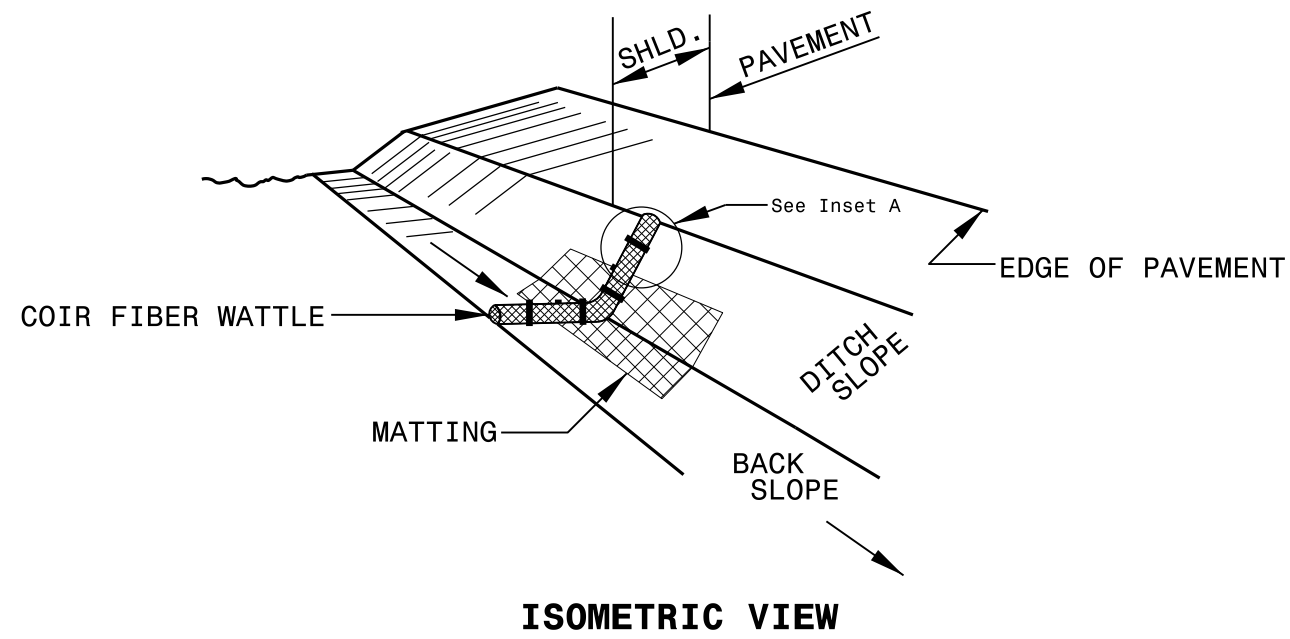


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

COIR FIBER WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

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

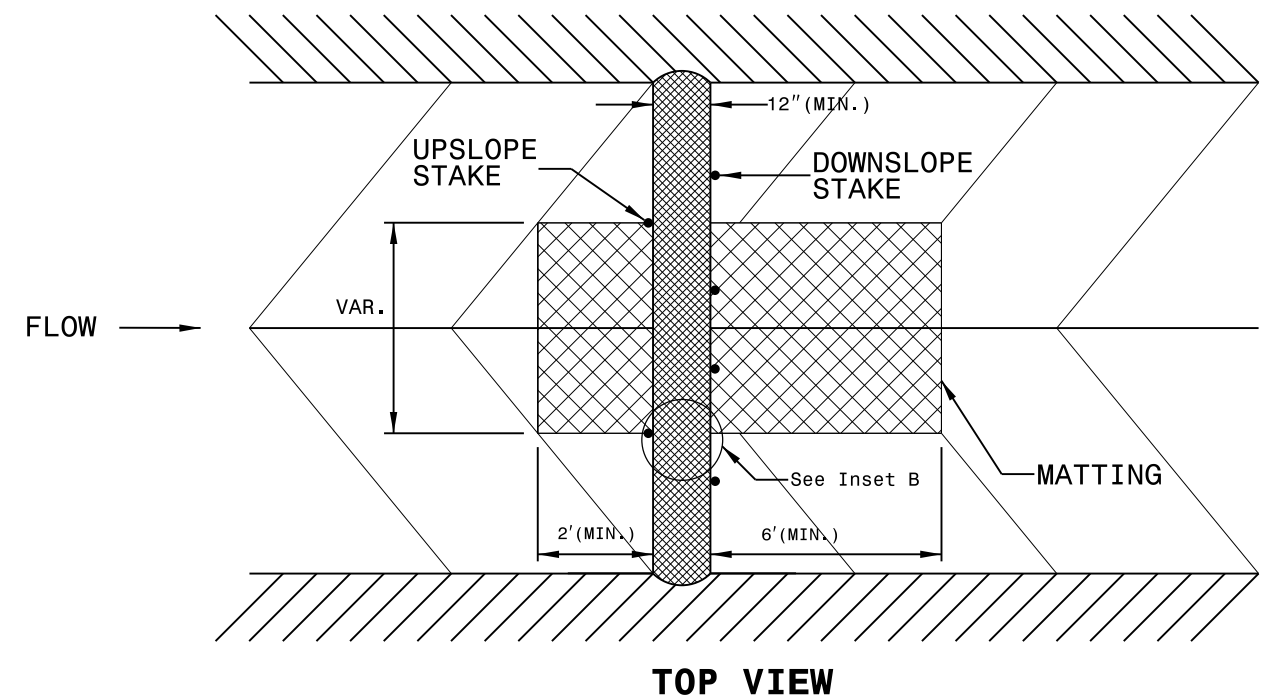
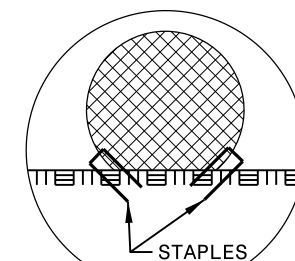
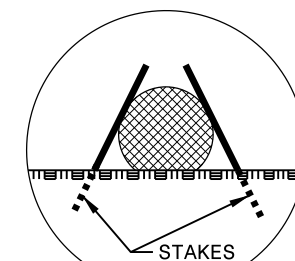
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.

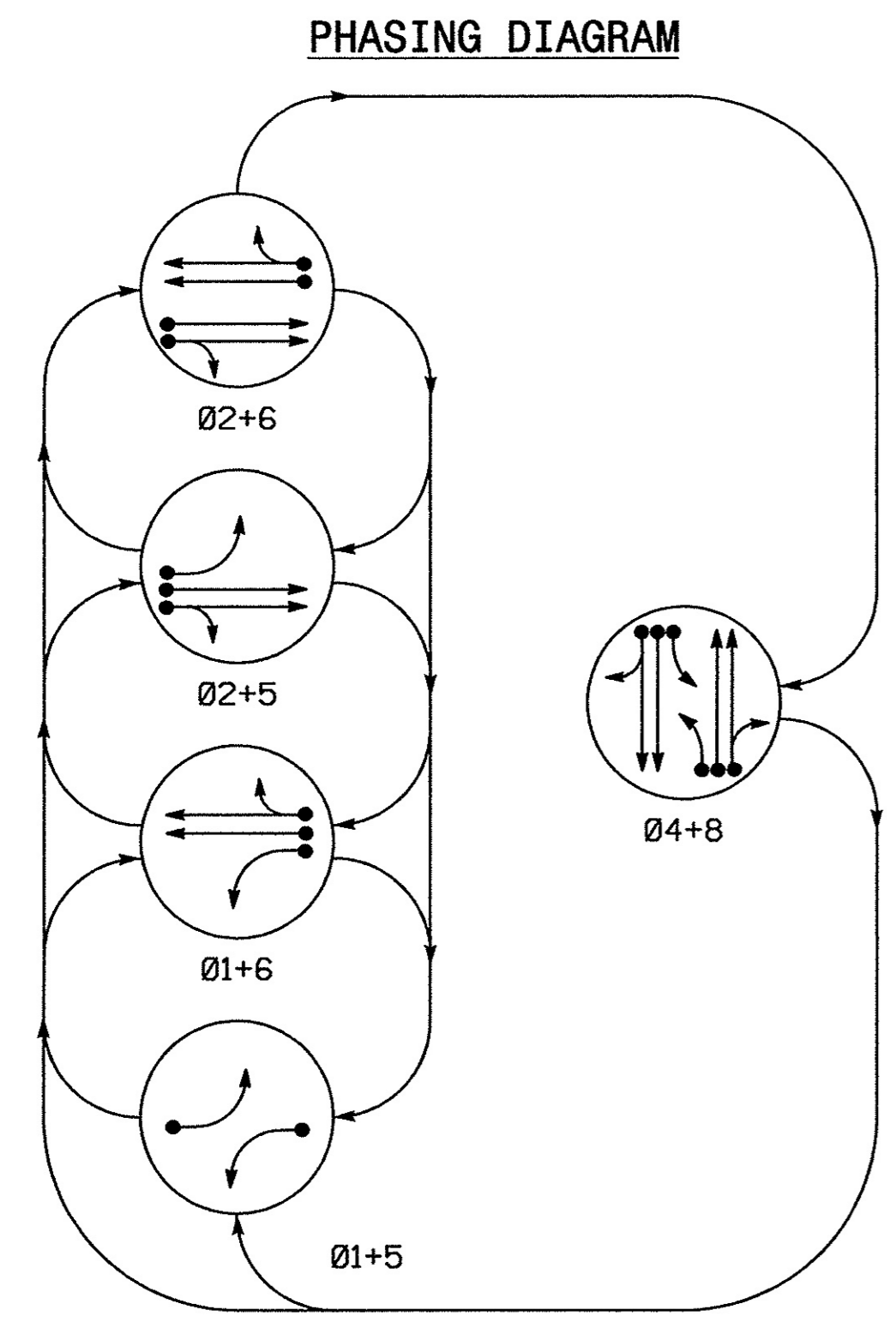


DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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.

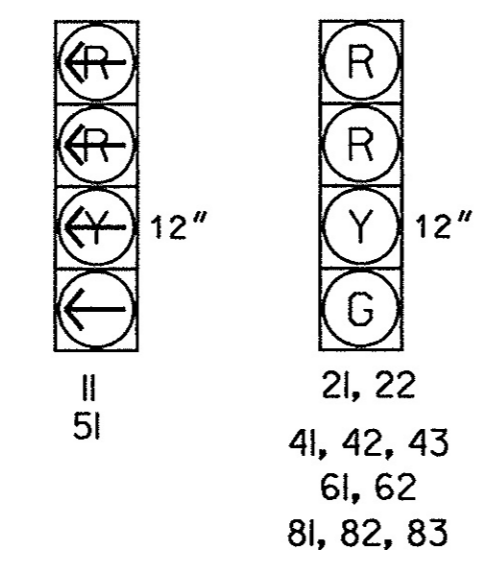
5 Phase
Fully Actuated
US 64 Closed Loop System



SIGNAL FACE	PHASE				
	Ø 1+5	Ø 1+6	Ø 2+5	Ø 2+6	Ø 4+8
II	←	←	←	←	←
21, 22	R	R	G	G	R
41, 42, 43	R	R	R	R	G
51	←	←	←	←	←
61, 62	R	G	R	G	R
81, 82, 83	R	R	R	R	G

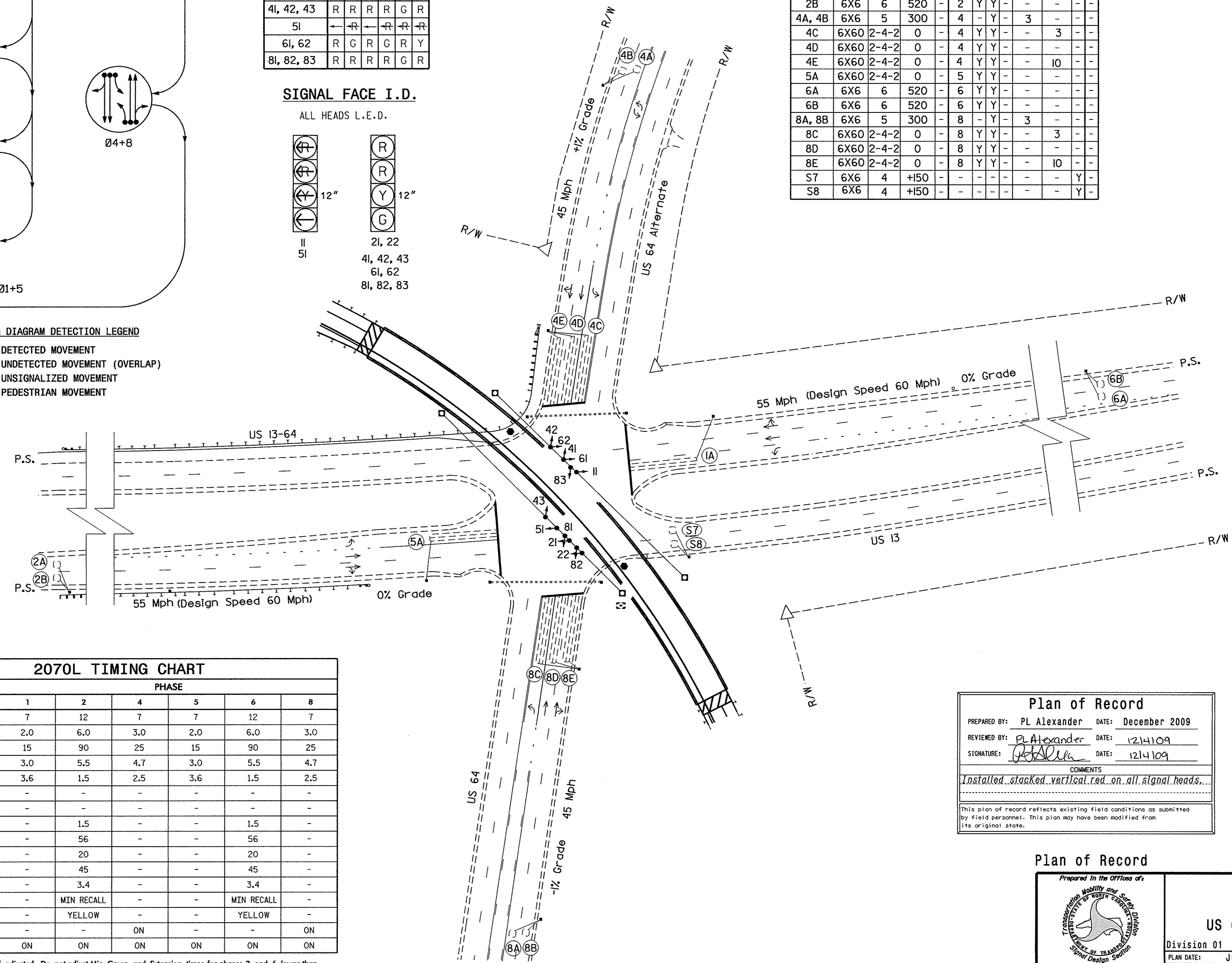
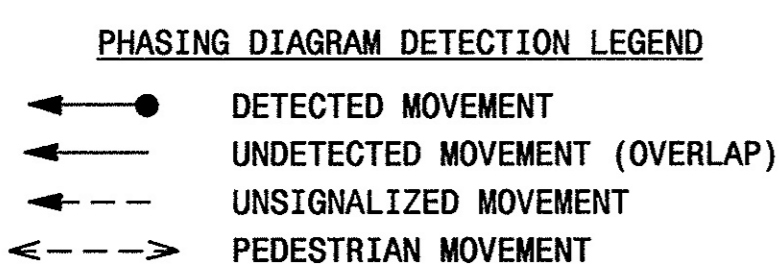
SIGNAL FACE I.D.

ALL HEADS L.E.D.



INDUCTIVE LOOPS			DETECTOR PROGRAMMING									
LOOP	SIZE (FT)	TURNS	DISTANCE FROM STOPBAR (FT)	NEW LOOP	PHASE	CALLING	EXTENSION	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SYSTEM LOOP	NEW CARD
1A	6X60	2-4-2	0	-	1	Y	Y	-	-	-	-	-
2A	6X6	6	520	-	2	Y	Y	-	-	-	-	-
2B	6X6	6	520	-	2	Y	Y	-	-	-	-	-
4A, 4B	6X6	5	300	-	4	-	Y	-	3	-	-	-
4C	6X60	2-4-2	0	-	4	Y	Y	-	-	3	-	-
4D	6X60	2-4-2	0	-	4	Y	Y	-	-	-	-	-
4E	6X60	2-4-2	0	-	4	Y	Y	-	-	10	-	-
5A	6X60	2-4-2	0	-	5	Y	Y	-	-	-	-	-
6A	6X6	6	520	-	6	Y	Y	-	-	-	-	-
6B	6X6	6	520	-	6	Y	Y	-	-	-	-	-
8A, 8B	6X6	5	300	-	8	-	Y	-	3	-	-	-
8C	6X60	2-4-2	0	-	8	Y	Y	-	-	3	-	-
8D	6X60	2-4-2	0	-	8	Y	Y	-	-	-	-	-
8E	6X60	2-4-2	0	-	8	Y	Y	-	-	10	-	-
S7	6X6	4	+150	-	-	-	-	-	-	-	Y	-
S8	6X6	4	+150	-	-	-	-	-	-	-	Y	-

- NOTES**
- Refer to "Roadway Standard Drawings NCDOT" dated July 2006 and "Standard Specifications for Roads and Structures" dated July 2006.
 - Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
 - Phase 1 or phase 5 may be lagged.
 - Set all detector units to presence mode.
 - In the event of loop replacement, refer to the current Signals and Geometrics Design Manual and submit a Plan of Record to the Signals and Geometrics Section.
 - Pavement markings are existing.
 - Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
 - Closed loop system data: Controller Asset # 0711.



FEATURE	PHASE					
	1	2	4	5	6	8
Min Green 1*	7	12	7	7	12	7
Extension 1*	2.0	6.0	3.0	2.0	6.0	3.0
Max Green 1*	15	90	25	15	90	25
Yellow Clearance	3.0	5.5	4.7	3.0	5.5	4.7
Red Clearance	3.6	1.5	2.5	3.6	1.5	2.5
Walk 1*	-	-	-	-	-	-
Don't Walk 1	-	-	-	-	-	-
Seconds Per Actuation*	-	1.5	-	-	1.5	-
Max Variable Initial*	-	56	-	-	56	-
Time Before Reduction*	-	20	-	-	20	-
Time To Reduction*	-	45	-	-	45	-
Minimum Gap	-	3.4	-	-	3.4	-
Recall Mode	-	MIN RECALL	-	-	MIN RECALL	-
Vehicle Call Memory	-	YELLOW	-	-	YELLOW	-
Dual Entry	-	-	ON	-	-	ON
Simultaneous Gap	ON	ON	ON	ON	ON	ON

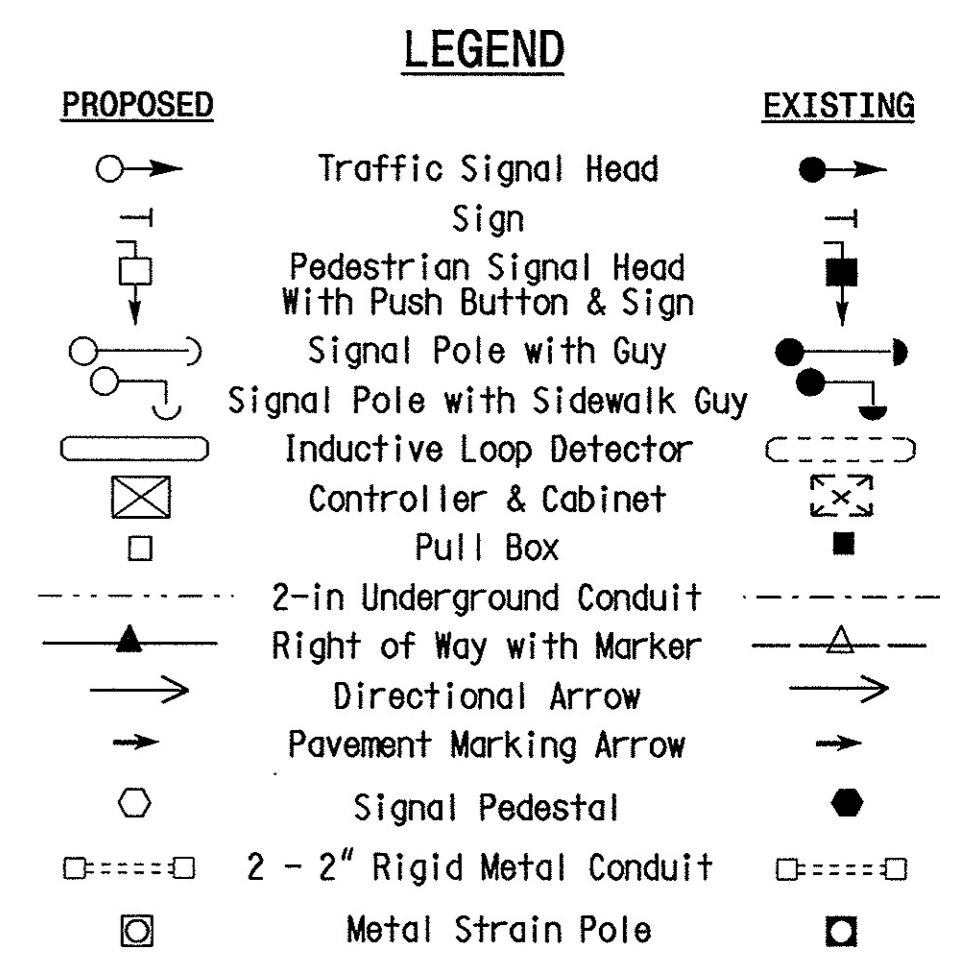
* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

Plan of Record

PREPARED BY: PL Alexander DATE: December 2009
 REVIEWED BY: PL Alexander DATE: 12/14/09
 SIGNATURE: [Signature] DATE: 12/14/09

COMMENTS:
 Installed stacked vertical red on all signal heads.

This plan of record reflects existing field conditions as submitted by field personnel. This plan may have been modified from its original state.



Plan of Record

<p>Prepared in the Offices of: Transportation Mobility and Safety Division DEPARTMENT OF TRANSPORTATION Signal Design Section</p>	US 13/US 13-64 at US 64/US 64 Alternate		Not a certified document. This document originally Issued and sealed by Boniface MaduabuchiKwu, PE, (25475) on 8/5/04. This document shall not be considered a certified document.
	Division 01 Martin County Williamston PLAN DATE: June 2004 REVIEWED BY: M.K. Mahbooba PREPARED BY: I.O. Umzurike REVIEWED BY:	REVISIONS 1. Removed pedestal mounted heads and added farside heads for phase 4 and 8. Adjusted clearance times. pla 7/22/09	
SCALE 0 50 1:50	SIG. INVENTORY NO. 01-0711		