

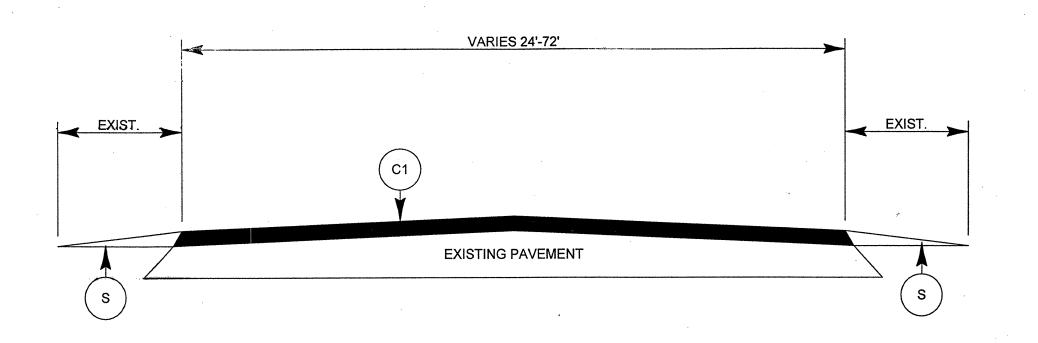
PROJECT NO.	SHEET NO.	TOTAL NO.
5CR.10321.7	2	

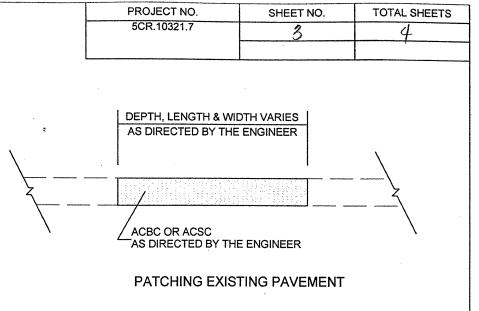
SUMMARY OF QUANTITIES

PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	LENGTH	WIDTH	SHOULDER	INCIDENTAL	SURFACE	PG 64-22	PATCHING	GUARDRAI	ADJUST.	ADJUST.	REMOVE &	SEED &	LEAD-IN
								RECONSTR	MILLING	COURSE,	PLANT MIX	EXISTING	L ANCHOR	OF METER	OF	RESET	MULCHING	CABLE (18-
								UCTION		S9.5B		PAVEMENT	UNIT - TYPE	BOXES OR	MANHOLES	EXIST		4)
													350	VALVE		GUARDRAIL		
								İ						BOXES				
NO		NO		`	NO	MI	FT	SMI	SY	TONS	TONS	TONS	EA	EA	EA	LF	AC	LF
				FROM FALCONBRIDGE RD TO SR														
5CR.10321.7	Durham	1	NC 54	2290 (LEIGH FARM RD)	1	0.6	60	1.2	660	1,958	117						0.90	3,600
				FROM SR 2290 (LEIGH FARM RD)														
				TO BRIDGE OVER NEW HOPE														
		2	NC 54	CREEK	1	0.49	24	0.98	150	669	40	100	6			440	0.74	1,200
				FROM BRIDGE OVER NEW HOPE														
				CREEK TO BEGIN C&G WEST OF														
		3	NC 54	MANDY COURT	1	0.2	24	0.4	150	250	15	40	2			500	0.30	
				FROM C&G WEST OF MANDY														
		4	NC 54	COURT TO DRESDEN DRIVE	2	0.16	36			325	19	30		3	2			
TOTAL FOR	PROJ NO.	5CR.1	10321.7			1.45		2.58	960	3,202	191	170	8	3	2	940	1.94	4,800
GI	RAND TOT	AL				1.45		2.58	960	3,202	191	170	8	3	2	940	1.94	4,800

THERMOPLASTIC AND PAINT QUANTITIES

<u> </u>					4685000000-E	468600	0000-E	4710000000-E	4721000000-E		472500	0000-E			4900000000-N	
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	4" X 90 M WHITE THERMO	4" X 120 M WHITE THERMO	4" X 120 M YELLOW THERMO	24" X 120 M WHITE THERMO	THERMO MSG ONLY 120 M	THERMO LT ARROW 90 M	THERMO STR ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR & RT ARROW 90 M		CRYSTAL & RED MARKERS	YELLOW & YELLOW MARKERS
NO		NO			LF	LF	LF	LF	EA	EA	EA	EA	EA	,	EA	EA
5CR.10321.7	Durham	1	NC 54	FROM FALCONBRIDGE RD TO SR 2290 (LEIGH FARM RD)	6,576	3,168	6,336	225	16	15	22	12	6		158	40
		2	NC 54	FROM SR 2290 (LEIGH FARM RD) TO BRIDGE OVER NEW HOPE CREEK	5,272		3,234	60		2	2	1			20	32
			NC 54	FROM BRIDGE OVER NEW HOPE CREEK TO BEGIN C&G WEST OF MANDY COURT			1,320									26
		4	NC 54	FROM C&G WEST OF MANDY COURT TO DRESDEN DRIVE	,	300	2,112			2					15	22
TOTAL FOR	PROJ NO	5CR.	10321.7		14,000	3,468	13,002	285	16	19	24	13	6		193	121
							470					2				
G	RAND TO	AL			14,000	3,468 16,	13,002 470	285	16	19	24 6	13 2	6		193	121

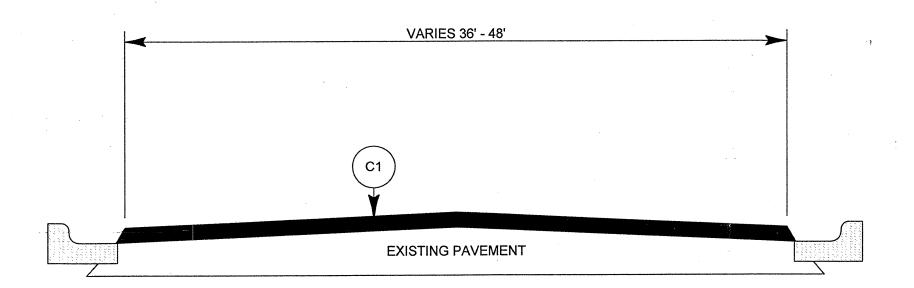




SHEET NO.

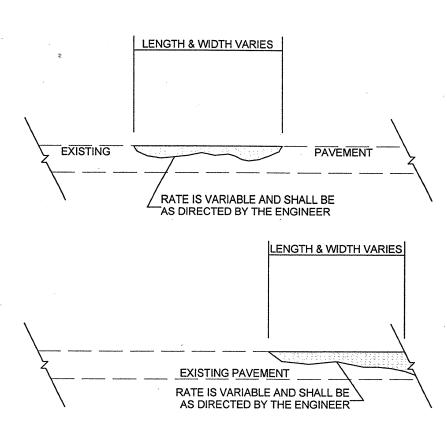
TOTAL SHEETS

TYPICAL SECTION NO. 1

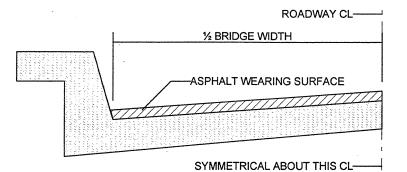


	PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT THE AVERAGE RATE OF 168 LBS PER SQ YD.	
S	SHOULDER RECONSTRUCTION.	

PROJECT NO.	SHEET NO.	TOTAL SHEETS
5CR.10321.7	4	4
	·	



ASPHALT CONCRETE SURFACE COURSE (LEVELING COURSE)



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 1½" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

NOTES

ALL UNPAVED ROADS TO BE RESURFACED 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 ENGINEER.

EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE

INDICATED.

BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE FNGINEFR

PROJ. REFERENCE NO. 5CR.10321.7 TCP-1

TRANSPORTATION

OF.

DEPT.

HIGHWAYS

OF

DIVISION

IGN

S

WARNIN

NO

WORK

IDED

UNDIV

TWO-WAY

FOR

DRAWING

ပ z

RALEIGH,

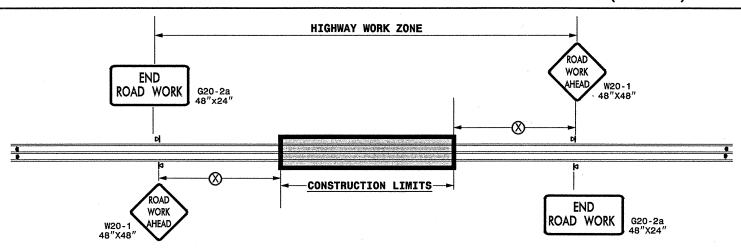
CAROLINA

NORTH

R

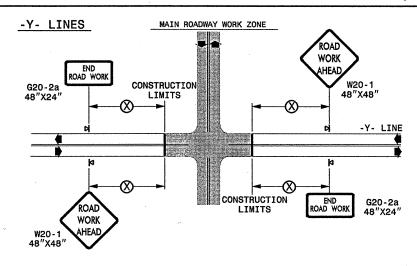
STATE

TWO-WAY UNDIVIDED ** (L-LINES)



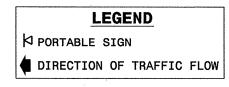
	RECOMMENDED Minimum Sign Spacing
POSTED SPEED LIMIT (M.P.H.)	⊗
≤ 50	500'
≥ 55	1000'

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)

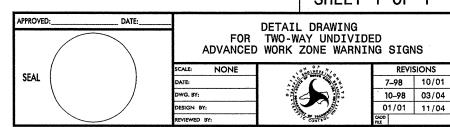


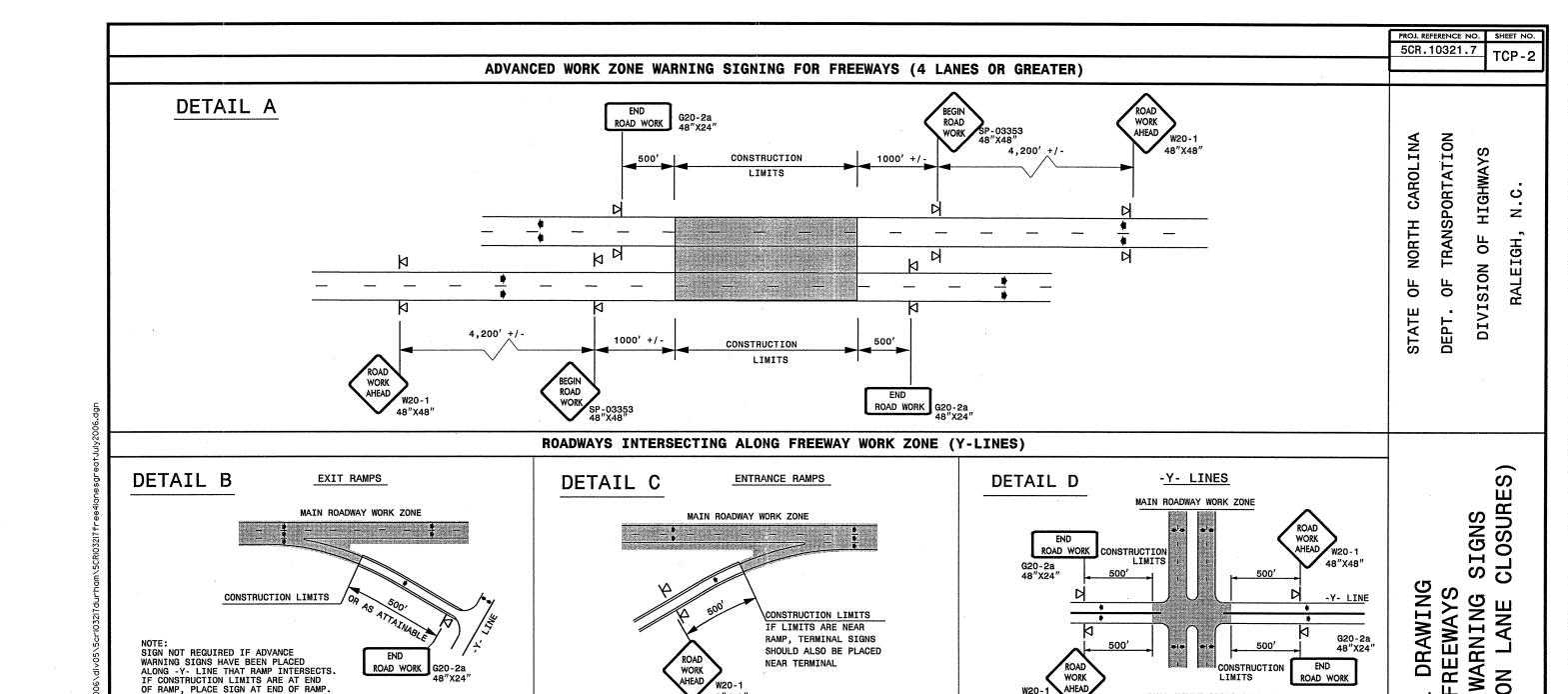
GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.



SHEET 1 OF 1





IF LIMITS ARE NEAR RAMP, TERMINAL SIGNS

NEAR TERMINAL

SHOULD ALSO BE PLACED

GENERAL NOTES

ROAD

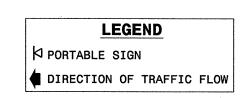
WORK

AHEAD

W20-1

48"X48"

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.



CONSTRUCTION

DUAL MOUNT SIGNS ON DIVIDED HIGHWAYS AND INCREASE SIGN SPACING TO 1000'+/-.

ROAD

WORK

AHEAD

W20-1

48"X48

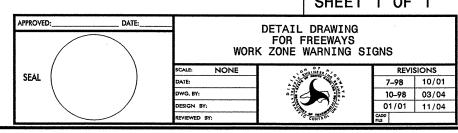
SHEET 1 OF 1

SHORT-DURATION

ZONE

WORK

DETAI FOR



G20-2a

ROAD WORK

NOTE: SIGN NOT REQUIRED IF ADVANCE

WARNING SIGNS HAVE BEEN PLACED

ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END

OF RAMP, PLACE SIGN AT END OF RAMP.

ROAD WORK

Z

RALEIGH

NONE SIGN BY:

APPROVED:_

SEAL

DATE:__

DWG, BY:

ADVANCED WORK ZONE WARNING SIGN DESIGNS REVISIONS 04/04 11/04

SP 03353 SIGN NUMBER: SP-03353 BACKG COLOR: Fluorescent Orange DESIGN BY: CL DOWNEY STD #: W20-1 DATE: Aug 20,2003 TYPE: A PROJECT ID: ALL PROJECTS DIV: DIV X Y WID HT SIGN WIDTH: 4'-0" HEIGHT: 4'-0" TOTAL AREA: 16.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.59" WIDTH: 0.75" RADII: 1.38" 18.7" BEGIN NO. Z BARS: N/A LENGTH: N/A MAT'L: ROAD USE NOTES: 2, 4

1. Legend and border shall be direct applied Type VII reflective sheeting.

2. Legend and border shall be direct applied non-reflective sheeting.

3. Shields shall be Type VII reflective sheeting on 0.032" (0.38m) aluminum and demountable.

4. Background shall be Type VII reflective sheeting.

5. Background shall be Type VII reflective sheeting.

6. Center arrow(e) vertically on sign.

7. Bottom panel shall be yellow Type III sheeting.

Legend shall be direct applied black non-reflective sheeting. Yellow panel is: WORK [18.7" BORDER R=I.38" TH=0.75" 22.4" 21.6" 22.4" IN=0.59" LETTER POSITIONS

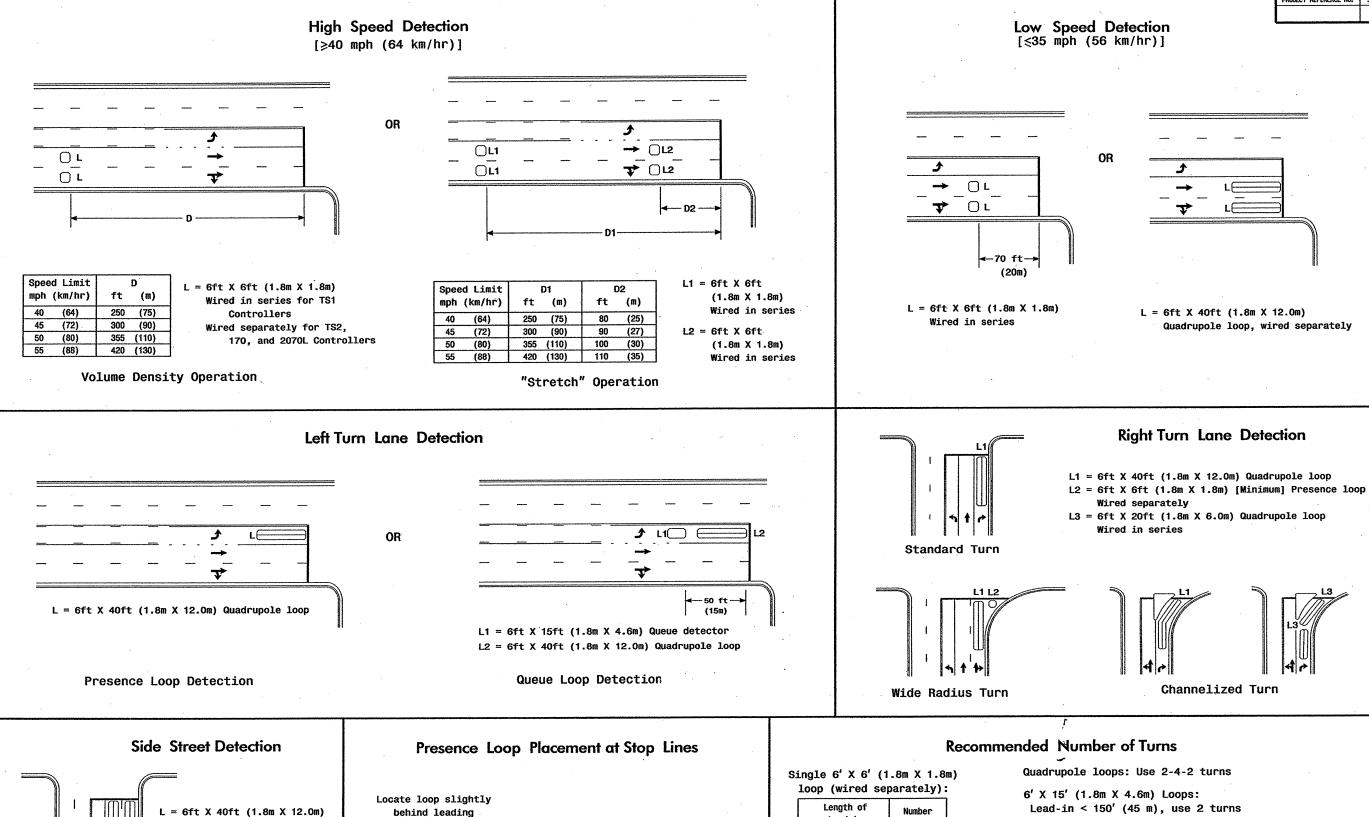
								Lett	er	spac	ings	are	e to	st	art	of	next	let	ter	 	 	 		Series/Si Text Leng
	Π	8	E	G	I	N	Ī									Π								C7
	22.4	5.3	4.8	5.4	2.5	3.8	22.4																	21.6
		R	0	A	D																			C7
	23.4	5	5.2	5.6	3.8	23.4																		19.8
_		W	0	R	K																			C7
	22.6	6.4	5.6	5.2	4	22.6																		21.2
									er milita					**********										
									SHOW COME															

		Г	Γ																					
4040																								
				T												1					1		1	1

GENERAL NOTES FOR SIGN SP-03353 "BEGIN ROAD WORK"

-SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS -WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO DETAIL FOR FREEWAY WORK ZONE SIGNS

NORTH CAROLINA D.O.T. SIGN DETAIL





behind leading edge of stop line ---- Inductive Loop

Quadrupole loop

Wired to separate

detectors/channels

Note: Loop may be located in advance of stop line when stop line is greater than 15' (4.5m) from edge of intersecting roadway; or, when loop detects a permissive or protected/permissive left turn.

Lead-in of Turns ft (m)

< 250 (75) 250-375 (75-115) 4 375-525 (115-160) 5 > 525 (160)

Lead-in < 150' (45 m), use 2 turns Lead-in > 150' (45 m), use 3 turns



N/A

Typical Loop Locations

PROJECT REFERENCE NO.

SIG 1

