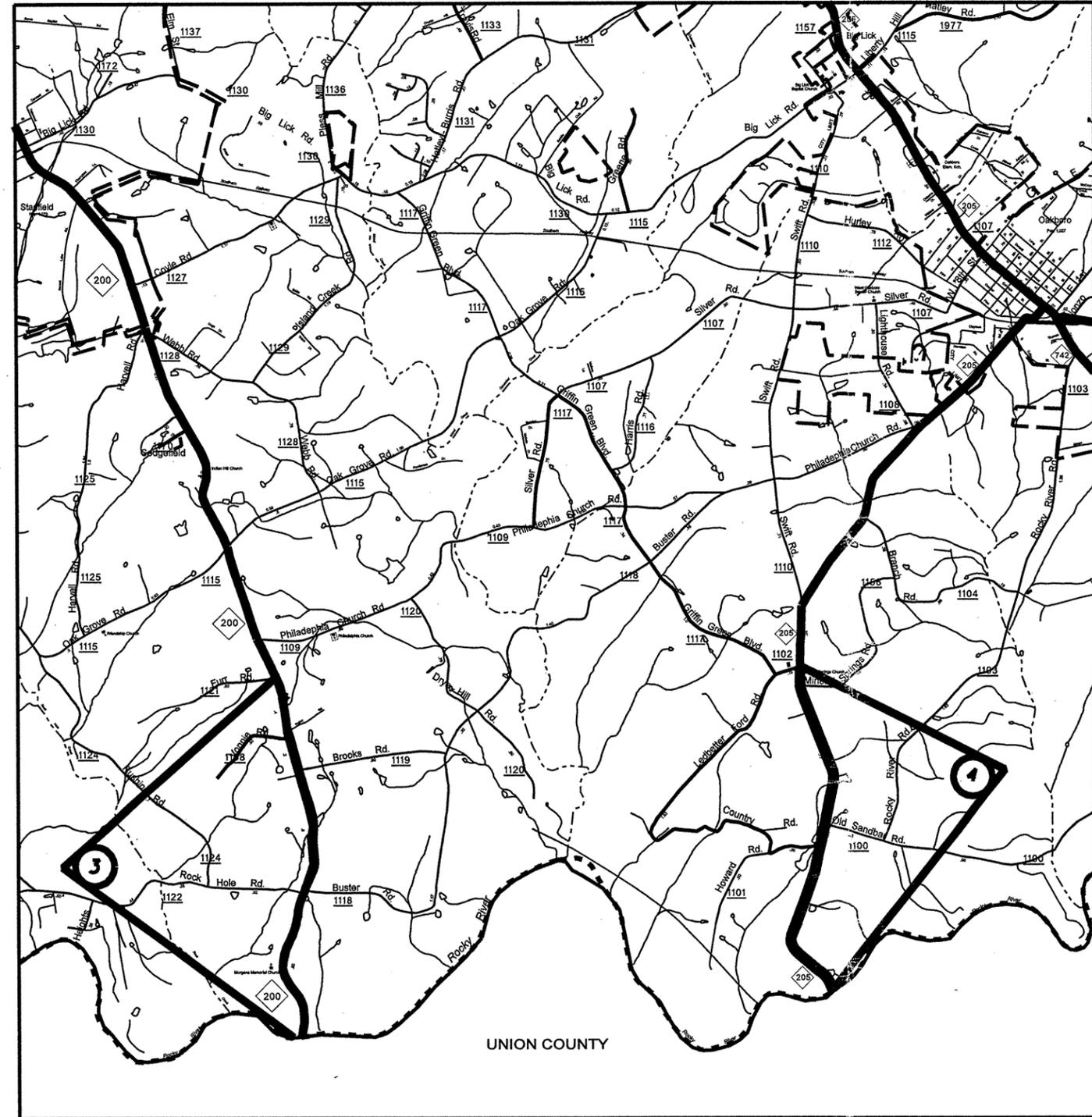


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5194	1	
WBS NO. 45274.3.ST1			



ENLARGED MUNICIPAL AND SUBURBAN AREAS

STANLY COUNTY

NORTH CAROLINA

PREPARED BY THE
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS - GIS UNIT

IN COOPERATION WITH THE
 U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

MAP #	ROUTE	DESCRIPTION
1	NC 740	FROM SR 1730 (VICKERS STORE RD) TO THE ISLANDS @ BADIN RD
2	NC 24/27	FROM NC 740 TO BIRD RD
3	NC 200	FROM SR 1121 (FURR RD) TO UNION COUNTY LINE
4	NC 205	FROM SR 1102 (LEDBETTER-FORD RD) TO UNION COUNTY LINE
5	US 52	FROM THE NCL ALBEMARLE TO SR 1214 (AUSTIN RD)
6	US 52	FROM PAVEMENT JOINT SR 1494 (W MAIN ST) TO PAVEMENT JOINT NORTH MONO ISLANDS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5194	2	
WBS NO. 45274.3.ST1			



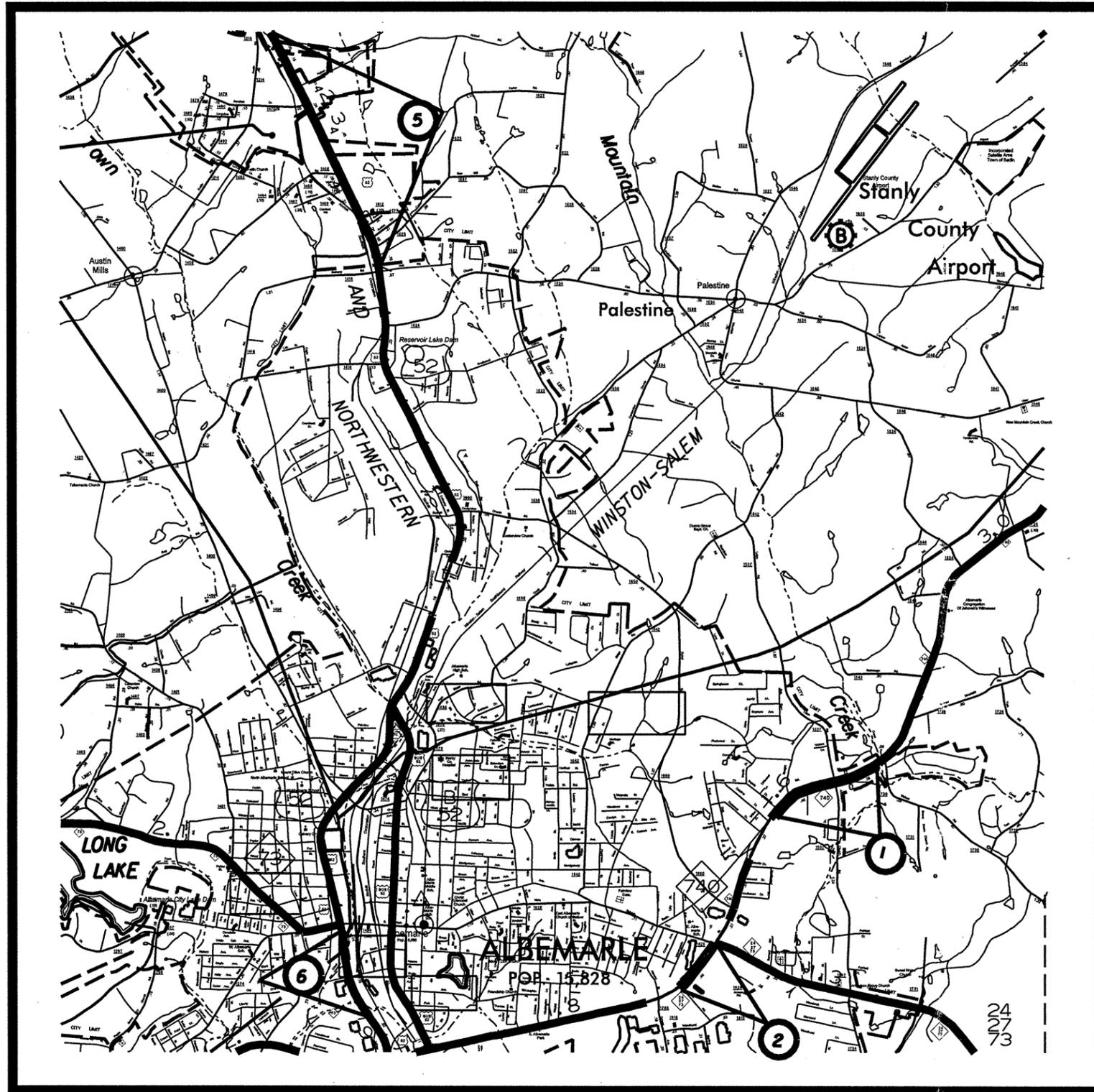
ENLARGED MUNICIPAL AND SUBURBAN AREAS

STANLY COUNTY

NORTH CAROLINA

PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - GIS UNIT

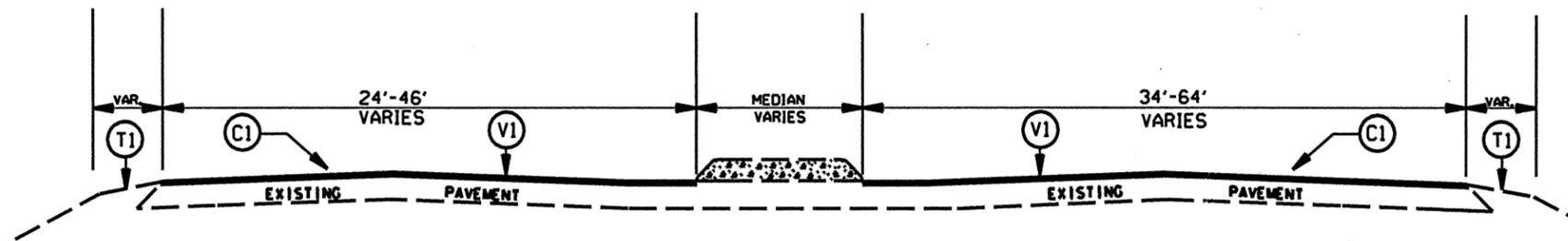
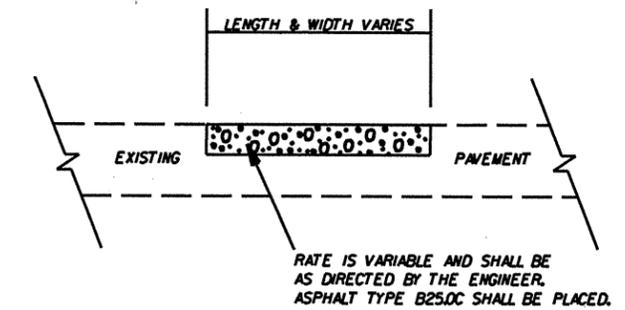
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



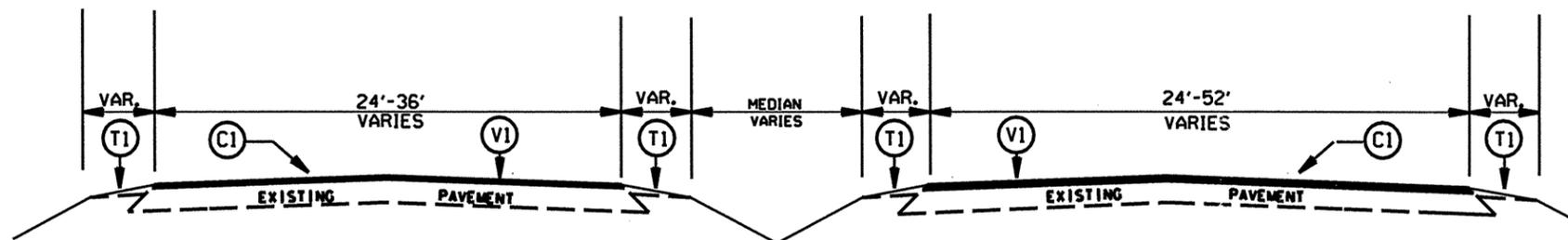
MAP #	ROUTE	DESCRIPTION
1	NC 740	FROM SR 1730 (VICKERS STORE RD) TO THE ISLANDS @ BADIN RD
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6	US 52	FROM PAVEMENT JOINT SR 1494 (W MAIN ST) TO PAVEMENT JOINT NORTH MONO ISLANDS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5194	3	
WBS NO.		45274.3.ST1	

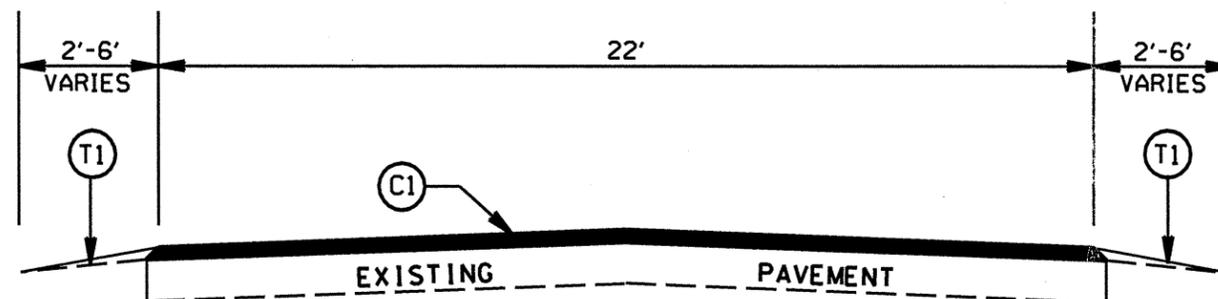
PATCHING DETAIL



TYPICAL SECTION NO. 3



TYPICAL SECTION NO. 2



TYPICAL SECTION NO. 1

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	MILLING 1.5" DEPTH

STANLY COUNTY
RESURFACING 2009

SCALE	-NA-		REVISIONS
DATE	7/09		
DWG. BY	JDA		
DESIGN BY	JDA		
APPROVED	MPW		

PROJECT NO.	SHEET NO.	TOTAL NO.
R-5194 45274.3.ST1	5	

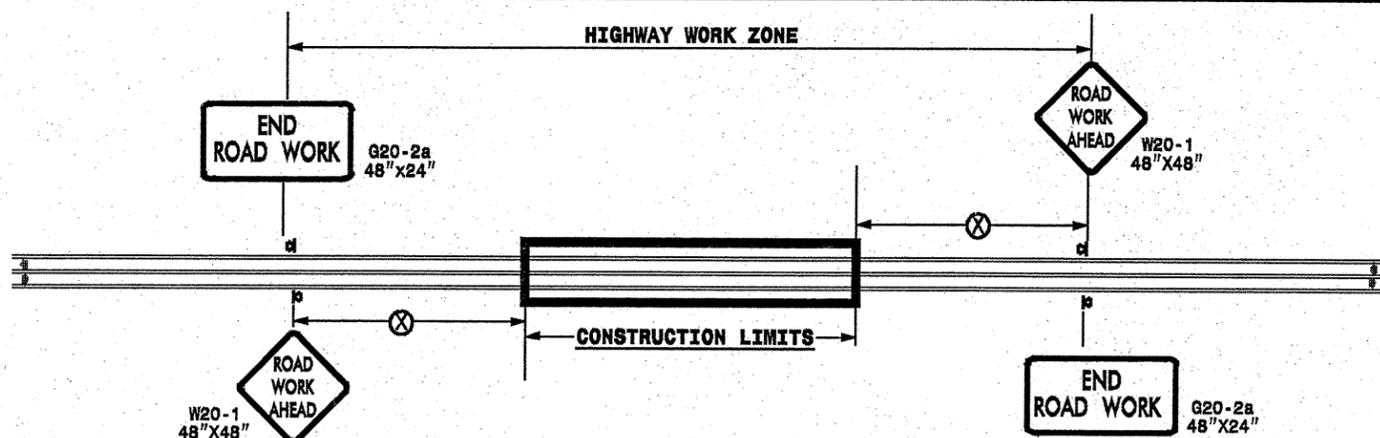
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	INCIDENTAL MILLING SY	INTERMEDIATE COURSE, 119.0C TONS	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, S9.5C TONS	PATCHING EXISTING PAVEMENT TONS	RETROFIT EXISTING WHEELCHAIR RAMPS EA	ADJ. OF CATCH BASIN EA	ADJ. OF MAN HOLES EA	ADJ. OF METER OR VALVE BOX EA	SEED & MULCHING AC	PG 64-22 PLANT MIX TONS	PG 70-22 PLANT MIX TONS	INDUCTIVE LOOP SAWCUT LF	TRAFFIC CONTROL LS			
R-5194 45274.3.ST1	Stanly	1	NC 740	FROM SR 1730 (VICKERS STORE RD.) TO ISLANDS @ BADIN RD.	1	NO	0.82	22	41	1.64		140		1,022	299	301			1	3	1.00		81					
TOTAL FOR MAP NO. 1							0.82		41	1.64		140		1,022	299	301			1	3	1.00		81					
		2	NC 24/27	FROM NC 740 TO BIRD RD.	2,3	NO	0.3	36	15	1.05	14,585			1,390	165	110			1	1	1.00		94	1,300				
TOTAL FOR MAP NO. 2							0.3		15	1.05	14,585			1,390	165	110			1	1	1.00		94	1,300				
		3	NC 200	FROM SR 1121 (FURR RD.) TO UNION CO. LINE	4	NO	2	23		4.00		750	4,179	2,498		700					4.84	196	150					
TOTAL FOR MAP NO. 3							2			4.00		750	4,179	2,498		700							4.84	196	150			
		4	NC 205	FROM SR 1102 (LEDBETTER-FORD RD.) TO UNION CO. LINE	4	NO	1.84	23	92	3.68		750	3,958	2,307		750					2.20	186	138					
TOTAL FOR MAP NO. 4							1.84		92	3.68		750	3,958	2,307		750							2.20	186	138			
		5	US 52	FROM NORTH CL ALBEMARLE TO SR 1214 (AUSTIN RD.)	5	NO	1.52	65			59,000			5,227		399	28	1	1	1			314					
TOTAL FOR MAP NO. 5							1.52				59,000			5,227		399	28	1	1	1					314			
		6	US 52	FROM PAVT. JOINT SOUTH OF SR 1494 (WMAIN ST.) TO PAVT. JOINT NORTH OF MONO ISLAND	5	NO	0.5	44			14,356			1,268		131	4	1	1	1			76	850				
TOTAL FOR MAP NO. 6							0.5				14,356			1,268		131	4	1	1	1					76	850		
TOTAL FOR PROJ NO. 45274.3.ST1 TIP R-5194							6.98		148	10.37		87,941	1,640	8,137	13,712	464	2,391	32	2	4	6		9.04	382	853	2,150	1	
GRAND TOTAL							6.98		148	10.37		87,941	1,640	8,137	13,712	464	2,391	32	2	4	6		9.04	382	853	2,150	1	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4685000000-E		4686000000-E		4695000000-E		4705000000-E		4710000000-E		4721000000-E		4725000000-E		4810000000-E		4820000000-E		4830000000-E		4835000000-E		4840000000-N		4845000000-N		4900000000-N				
					4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 90 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG ONLY 120 M EA	THERMO MSG SCHOOL 120 M EA	THERMO RXR 120 M EA	THERMO RT ARROW 90 M EA	THERMO LT ARROW 90 M EA	4" YELLOW PAINT LF	4" WHITE PAINT LF	8" YELLOW PAINT LF	16" WHITE PAINT LF	24" WHITE PAINT LF	PAINT MSG SCHOOL EA	PAINT MSG RXR EA	PAINT LT ARROW EA	PAINT RT ARROW EA	YELLOW & YELLOW MARKERS EA	CRYSTAL & RED MARKERS EA							
R-5194 45274.3.ST1	Stanly	1	NC 740	FROM SR 1730 (VICKERS STORE RD.) TO ISLANDS @ BADIN RD.	8,823		5,412													5,412													66.0		
TOTAL FOR MAP NO. 1					8,823		5,412													5,412													66.0		
		2	NC 24/27	FROM NC 740 TO BIRD RD.	3,228	3,228		545	375			108	32			2	12			1,000													150.0		
TOTAL FOR MAP NO. 2					3,228	3,228		545	375			108	32			2	12			1,000														150.0	
		3	NC 200	FROM SR 1121 (FURR RD.) TO UNION CO. LINE	21,520		13,200													26,400														132.0	
TOTAL FOR MAP NO. 3					21,520		13,200													26,400														132.0	
		4	NC 205	FROM SR 1102 (LEDBETTER-FORD RD.) TO UNION CO. LINE	19,798		12,144													12,144														125.0	
TOTAL FOR MAP NO. 4					19,798		12,144													12,144														125.0	
		5	US 52	FROM NORTH CL ALBEMARLE TO SR 1214 (AUSTIN RD.)			20,181	4,330			150	938		18	12		54		20,181	6,582			200	1,650	18	12	54				220.0	240.0			
TOTAL FOR MAP NO. 5							20,181	4,330			150	938		18	12		54		20,181	6,582			200	1,650	18	12	54				220.0	240.0			
		6	US 52	FROM PAVT. JOINT SOUTH OF SR 1494 (WMAIN ST.) TO PAVT. JOINT NORTH OF MONO ISLAND			6,200	1,700				300							6,200	1,700			300										50.0	82.0	
TOTAL FOR MAP NO. 6							6,200	1,700				300							6,200	1,700			300										50.0	82.0	
TOTAL FOR PROJ NO. 45274.3.ST1 TIP R-5194					53,369	3,228	57,137	6,575	375	300	150	1,126		32	18	12		69		70,337	9,282			300	200	1,730	18	12	57	1		593	472		
GRAND TOTAL					53,369	3,228	57,137	6,575	375	300	150	1,126		32	18	12		69		70,337	9,282			300	200	1,730	18	12	57	1		593	472		

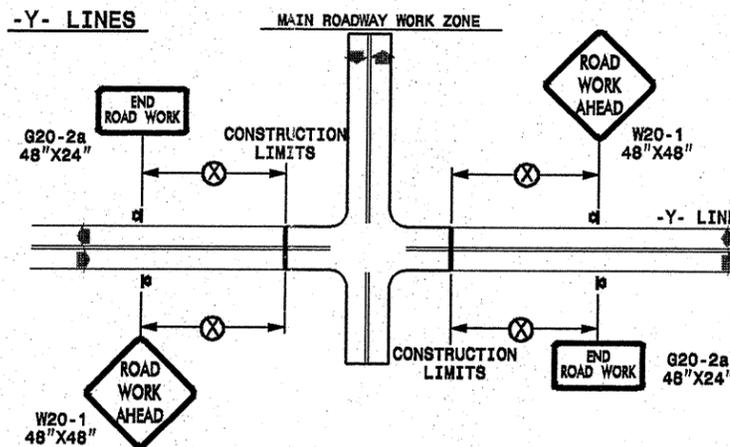
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

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

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



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE 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 SIGNS, 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.

LEGEND

◀ PORTABLE SIGN

➡ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING
FOR TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

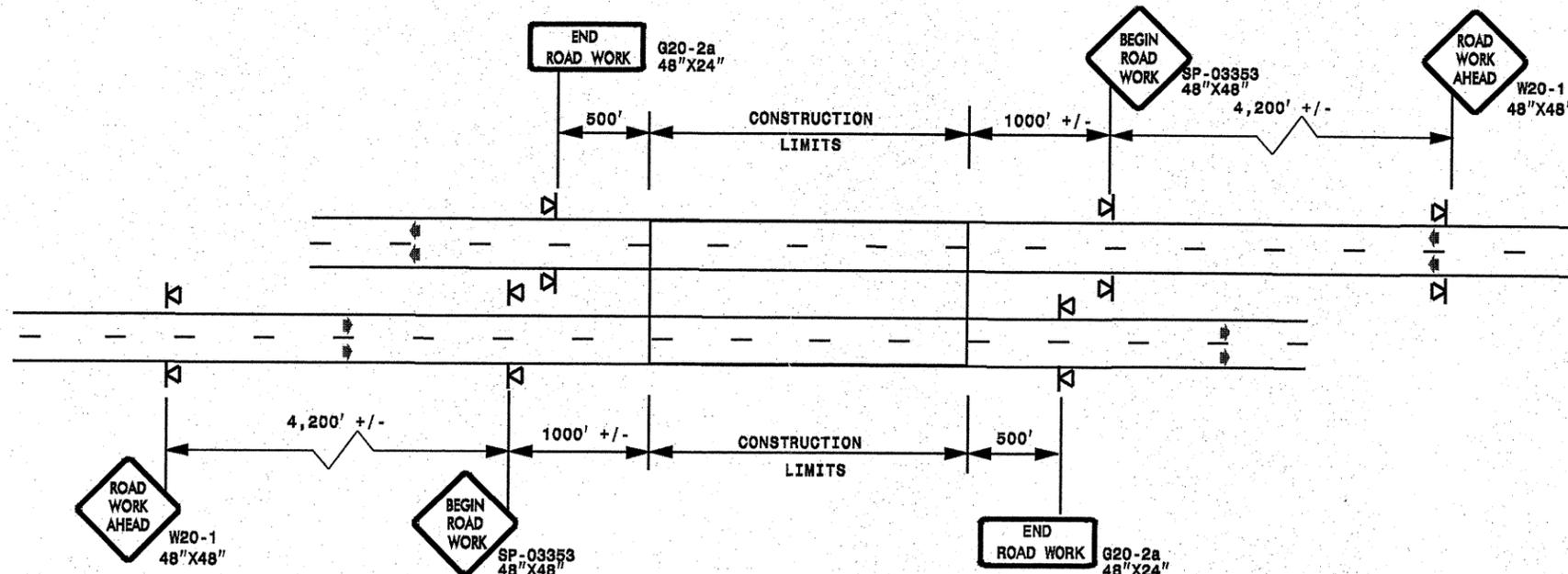
SHEET 1 OF 1

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED ADVANCED WORK ZONE WARNING SIGNS	
SEAL	SCALE: NONE		REVISIONS
	DATE: _____		7-98 10/01
	DWG. BY: _____		10-98 03/04
	DESIGN BY: _____		01/01 11/04
REVIEWED BY: _____	_____	_____	_____

19-AUG-2009 17:29 s:\signing\resurfacing\030509\resurfacing\div0\c202\ccc.452743st1.r-5194.stanby.nc740x5\c202xxx.452743st1.r-5194.2wayundivurb frwys\july2006.portable.dgn pseymore AT #27C237502

ADVANCE WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

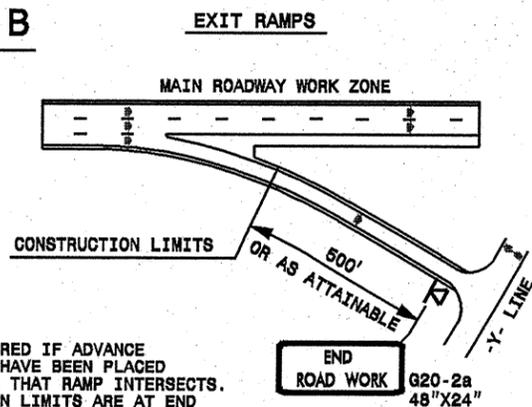
DETAIL A



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

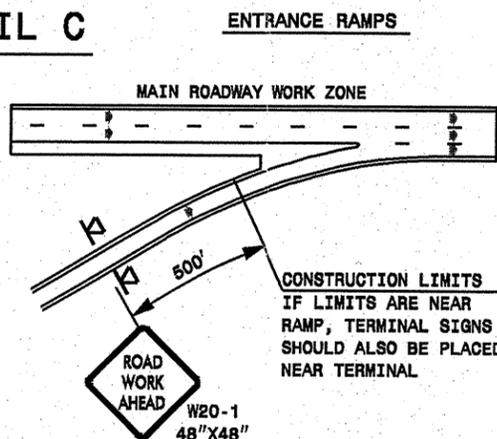
ROADWAYS INTERSECTING ALONG FREEWAY WORK ZONE (Y-LINES)

DETAIL B



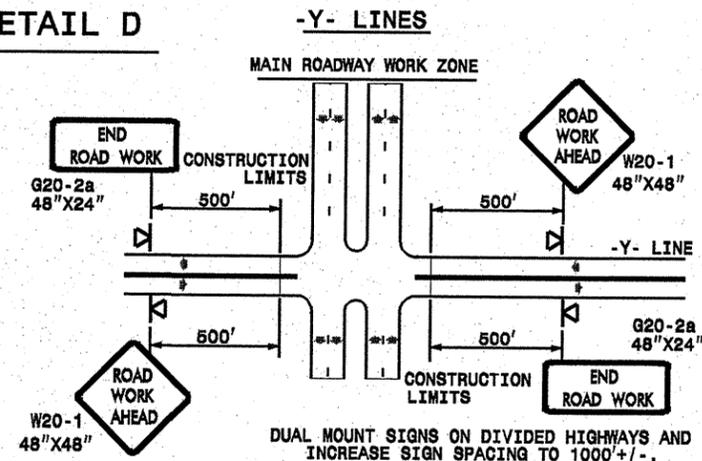
NOTE:
SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



CONSTRUCTION LIMITS IF LIMITS ARE NEAR RAMP, TERMINAL SIGNS SHOULD ALSO BE PLACED NEAR TERMINAL

DETAIL D



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

DETAIL DRAWING
FOR FREEWAYS
WORK ZONE WARNING SIGNS
(SHORT-DURATION LANE CLOSURES)

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE 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.

LEGEND

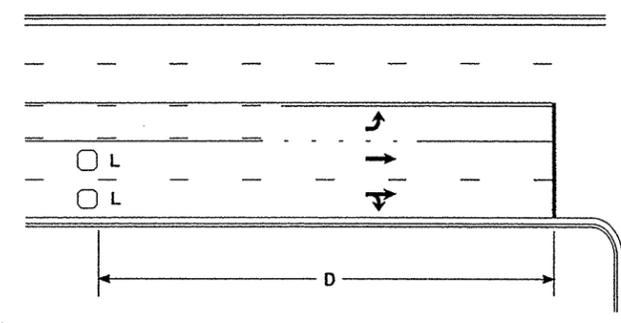
- ◁ PORTABLE SIGN
- ➔ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR FREEWAYS WORK ZONE WARNING SIGNS		
SEAL				
SCALE: NONE		REVISIONS		
DATE: 10-98		10/01		
DWG. BY: _____		03/04		
DESIGN BY: _____		11/04		
REVIEWED BY: _____				

19-AUG-2009 17:42
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 AT WZTC237502

High Speed Detection [≥40 mph (64 km/hr)]

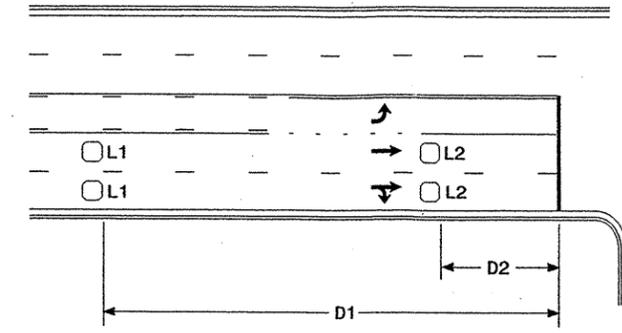


Speed Limit mph (km/hr)	D ft (m)
40 (64)	250 (75)
45 (72)	300 (90)
50 (80)	355 (110)
55 (88)	420 (130)

L = 6ft X 6ft (1.8m X 1.8m)
Wired in series for TS1
Controllers
Wired separately for TS2,
170, and 2070L Controllers

Volume Density Operation

OR

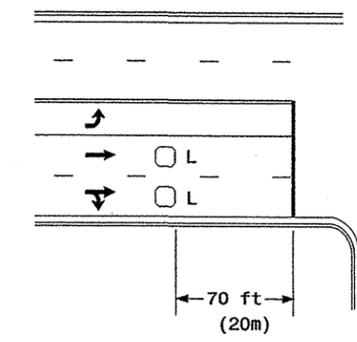


Speed Limit mph (km/hr)	D1 ft (m)	D2 ft (m)
40 (64)	250 (75)	80 (25)
45 (72)	300 (90)	90 (27)
50 (80)	355 (110)	100 (30)
55 (88)	420 (130)	110 (35)

L1 = 6ft X 6ft
(1.8m X 1.8m)
Wired in series
L2 = 6ft X 6ft
(1.8m X 1.8m)
Wired in series

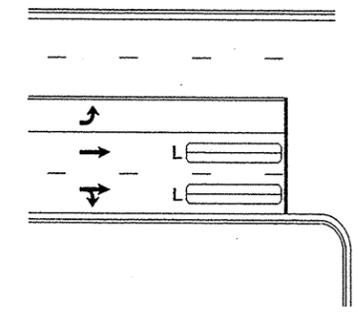
"Stretch" Operation

Low Speed Detection [≤35 mph (56 km/hr)]



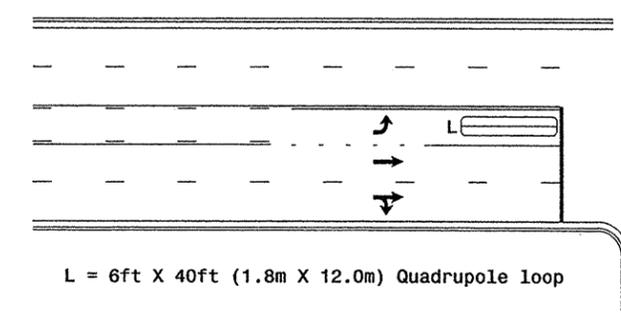
L = 6ft X 6ft (1.8m X 1.8m)
Wired in series

OR



L = 6ft X 40ft (1.8m X 12.0m)
Quadrupole loop, wired separately

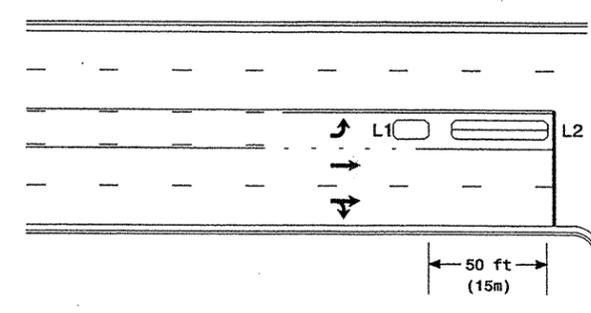
Left Turn Lane Detection



L = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

Presence Loop Detection

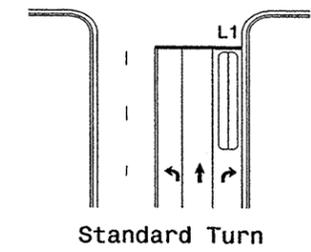
OR



L1 = 6ft X 15ft (1.8m X 4.6m) Queue detector
L2 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop

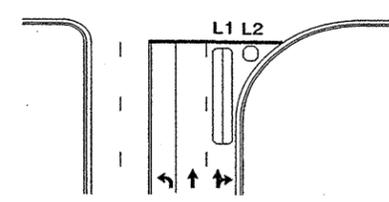
Queue Loop Detection

Right Turn Lane Detection

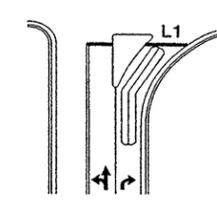


Standard Turn

L1 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop
L2 = 6ft X 6ft (1.8m X 1.8m) [Minimum] Presence Loop
Wired separately
L3 = 6ft X 20ft (1.8m X 6.0m) Quadrupole loop
Wired in series

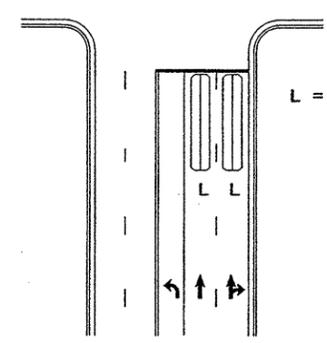


Wide Radius Turn



Channelized Turn

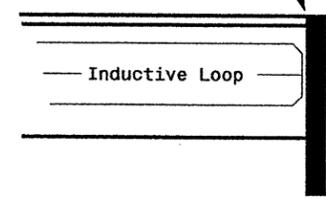
Side Street Detection



L = 6ft X 40ft (1.8m X 12.0m)
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines

Locate loop slightly
behind leading
edge of stop line



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.

Recommended Number of Turns

Single 6' X 6' (1.8m X 1.8m)
loop (wired separately):

Length of Lead-in ft (m)	Number of Turns
< 250 (75)	3
250-375 (75-115)	4
375-525 (115-160)	5
> 525 (160)	6

Quadrupole loops: Use 2-4-2 turns
6' X 15' (1.8m X 4.6m) Loops:
Lead-in < 150' (45 m), use 2 turns
Lead-in > 150' (45 m), use 3 turns

Prepared in the Offices of:

222 N. McDowell St., Raleigh, NC 27609

Typical Loop Locations

PLAN DATE: June 2006	REVIEWED BY:
PREPARED BY: P L Alexander	REVIEWED BY:
REVISIONS	INIT. DATE
<input checked="" type="checkbox"/> Revise pavement markings	ac 12/1/06

SCALE: N/A

SEAL

SIGNATURE: P L Alexander
DATE: 6/6/06

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

11-08

ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS

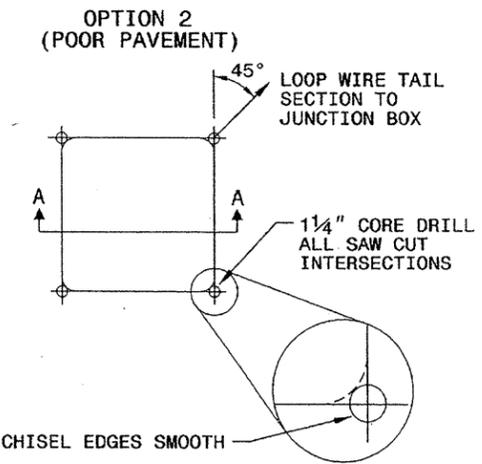
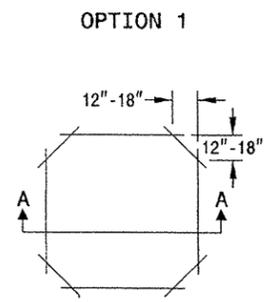
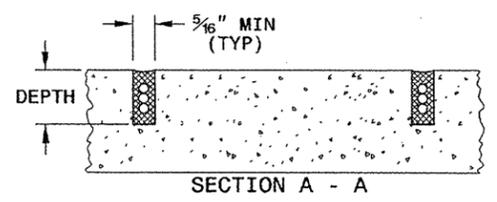
SHEET 1 OF 3
1725D01

CONVENTIONAL 4-SIDED LOOP

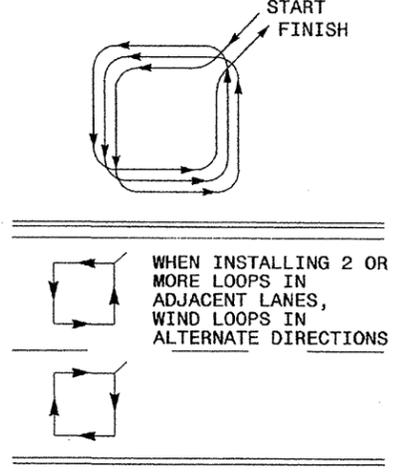
SAW CUT OPTIONS

SAW SLOT DEPTH CHART

DEPTH (IN)	NO. OF WIRE TURNS				
	2	3	4	5	6
CONCRETE	2.0	2.0	2.5	2.5	3.0
ASPHALT	2.0	2.5	3.0	3.0	3.0



LOOP WINDING METHOD



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

11-08

LOOP WIRE TWISTING METHOD

INCORRECT WAY TO TWIST WIRE



CORRECT WAY TO TWIST WIRE

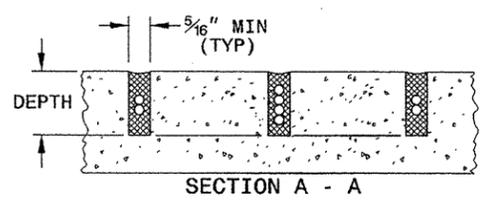
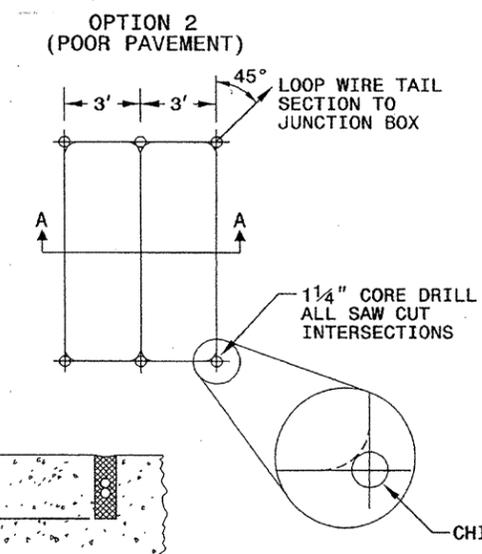
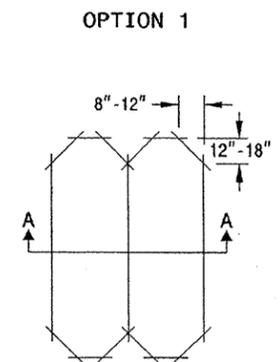


NOTES

1. OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
2. MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
3. WIRE LOOPS CONNECTED TO THE SAME DETECTOR CHANNEL IN SERIES.
4. LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS OR APPROVED BY ENGINEER.

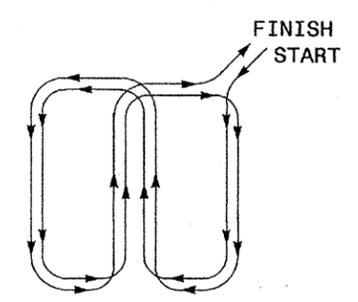
QUADRUPOLE LOOP

SAW CUT OPTIONS



DEPTH IS 2.5" FOR CONCRETE AND 3.0" FOR ASPHALT

LOOP WINDING METHOD



ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS

SHEET 1 OF 3
1725D01

See Plate for Title

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SEAL

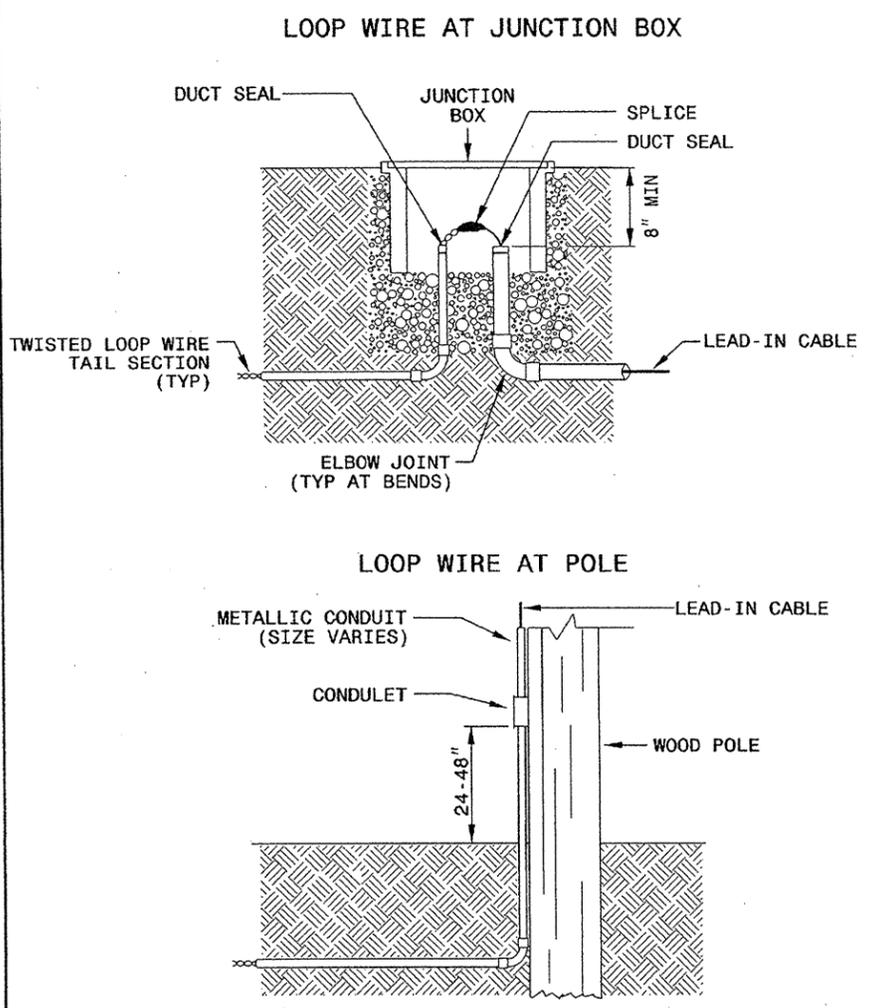
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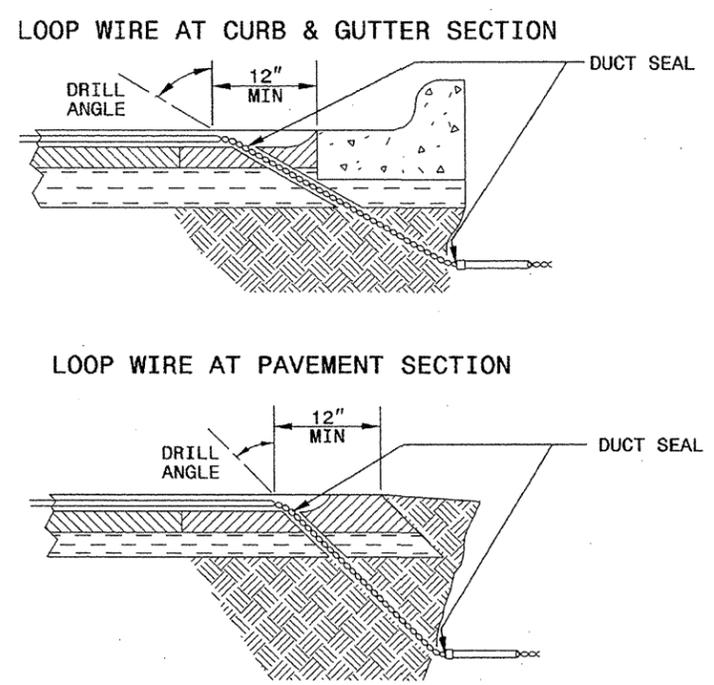
ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS
 LOOP WIRE DETAILS

LOOP WIRE SPLICE POINT DETAILS



NOTE
 SPLICE ALL LOOP WIRE TAIL SECTIONS/LEAD-IN CABLE IN JUNCTION BOXES OR APPROVED CONDULETS.

LOOP WIRE PAVEMENT EDGE DETAILS



- NOTES**
1. DO NOT EXCAVATE UNDER CURB AND GUTTER SECTIONS FOR CONDUIT INSTALLATION.
 2. TWIST LOOP WIRE TAIL SECTIONS FROM WHERE LOOP WIRE TAIL LEAVES SAW CUT TO JUNCTION BOX, INCLUDING THROUGH CONDUIT.
 3. BEFORE SEALING LOOPS, INSTALL DUCT SEAL WHERE LOOP WIRE TAIL SECTION LEAVES SAW CUT IN PAVEMENT AND AT ENTRANCE OF CONDUIT TO JUNCTION BOX.

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ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS
 LOOP WIRE DETAILS

See Plate for Title

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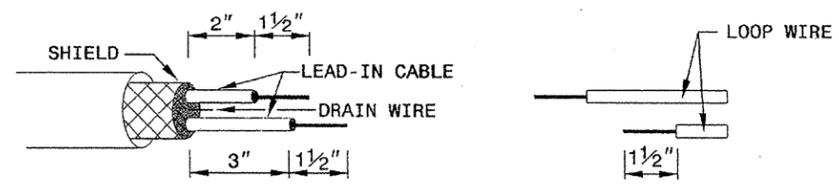
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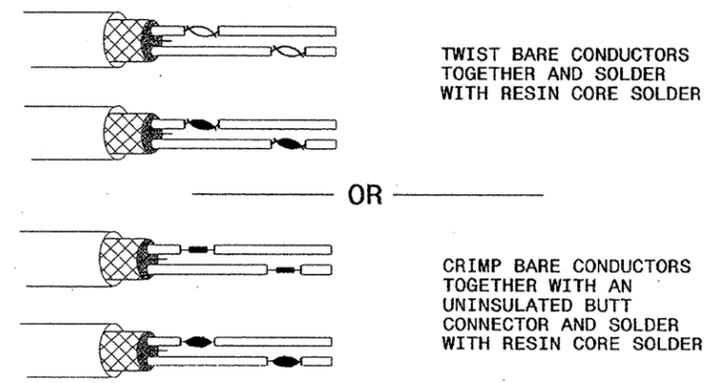
ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS
 SPLICING FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3
1725D01

STEP 1. STRIP LOOP WIRE AND LEAD-IN CABLE

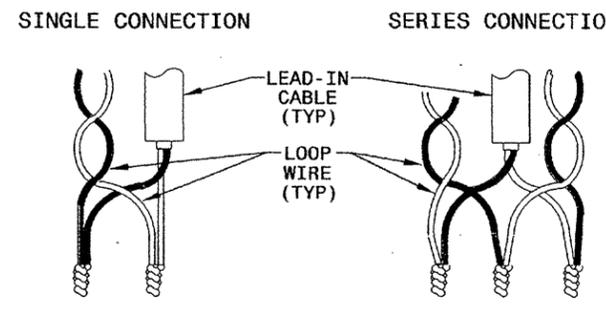


STEP 2. CONNECT AND SOLDER

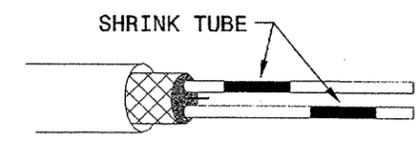


BOND SHIELD DRAIN WIRE AT SPLICE SECTIONS (DO NOT GROUND)

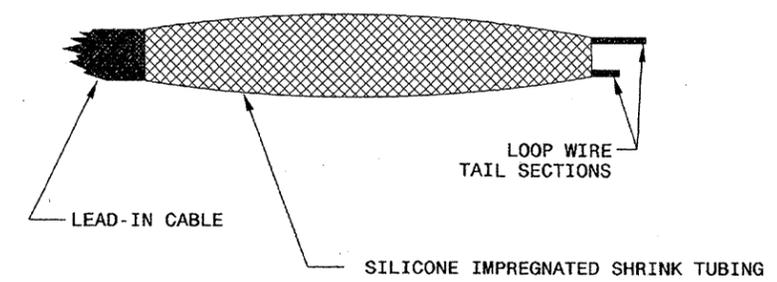
LOOP WIRE AND LEAD-IN CABLE CONNECTION DETAILS



STEP 3. INSULATE EACH SOLDER JOINT SEPARATELY



STEP 4. ENVIRONMENTALLY PROTECT SPLICE



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ENGLISH DETAIL DRAWING FOR
INDUCTIVE DETECTION LOOPS
 SPLICING FOR LEAD-IN CABLE AND LOOP WIRE

SHEET 3 OF 3
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