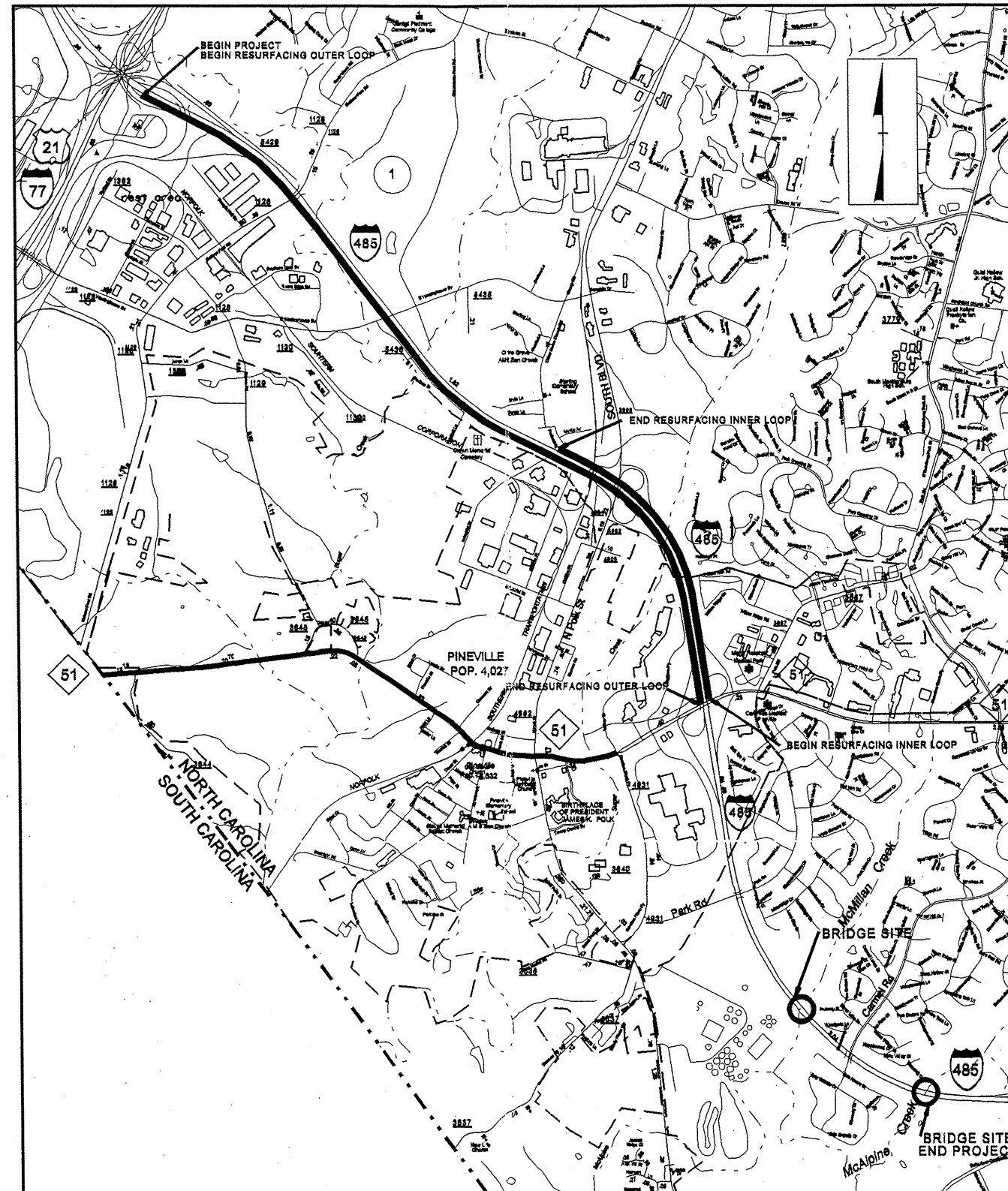


WBS 38733

I-485 FROM I-77 TO NC 51 AND TWO
BRIDGE SITES WEST OF JOHNSTON ROAD

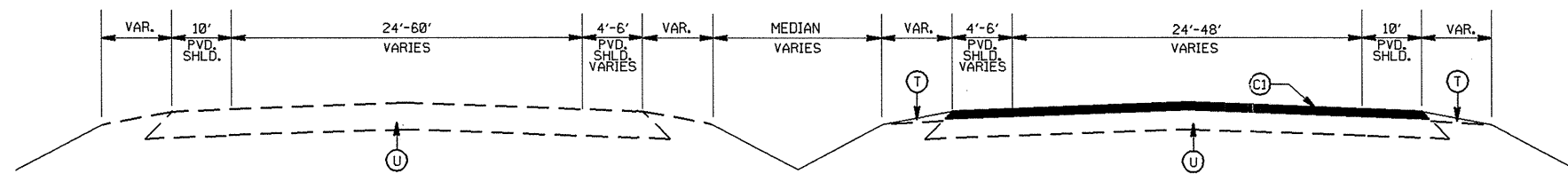
PROJECT NO.	SHEET NO.	TOTAL SHEETS
WBS 38733	1	3

C201590

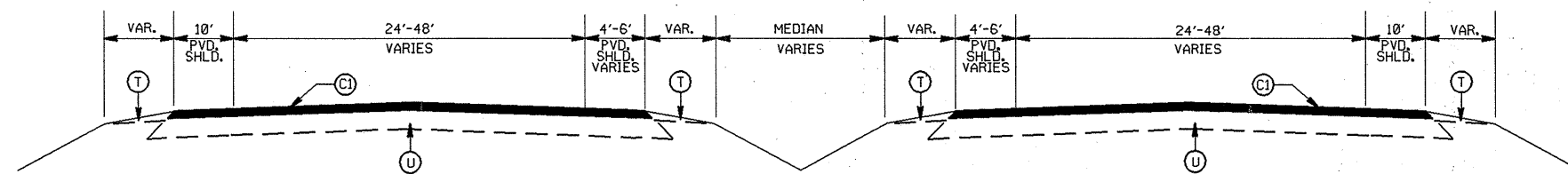


MECKLENBURG
COUNTY

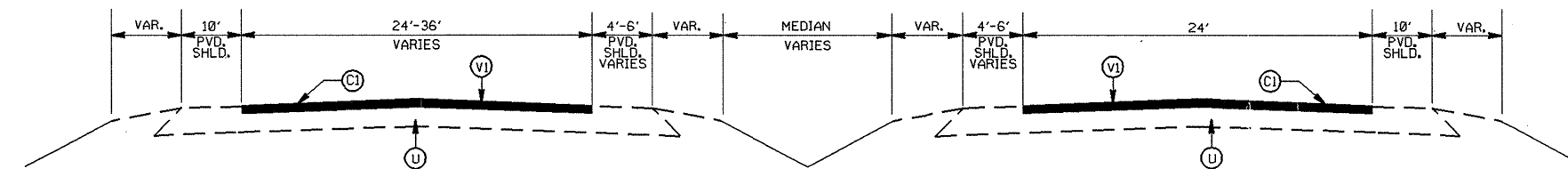
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS 38733.3	2	3
F.A. PROJECT NO.			



TYPICAL SECTION NO.1
FROM THE PAVEMENT JOINT @ I-77 TO THE RAMPS AT SOUTH BLVD.

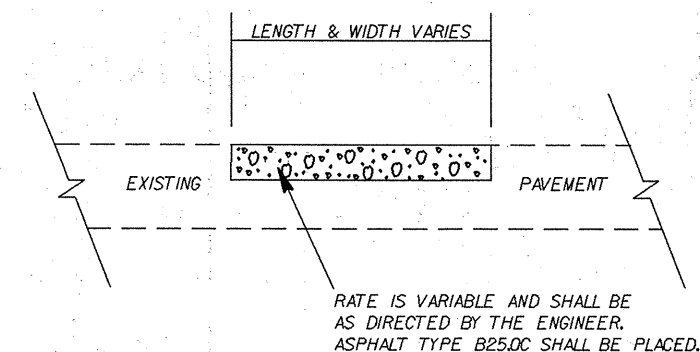


TYPICAL SECTION NO.2
FROM THE NC 51 BRIDGE TO THE RAMP @ SOUTH BLVD.



TYPICAL SECTION NO.3
BRIDGE SITES

PATCHING DETAIL



PAVEMENT SCHEDULE

(CI)	PROP. APPROX. 2" ASPHALT CONC. SURFACE COURSE, TYPE S12.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
(T)	SHOULDER RECONSTRUCTION
(U)	EXISTING PAVEMENT
(VI)	MILLING ASPHALT PAVEMENT, 2" DEPTH

NOTE: 2" MILLING SHALL BE DONE 150' EACH SIDE OF THE CONCRETE BRIDGES AT McMILLAN CREEK & McALPINE CREEK AND REPLACED WITH 2" OF S12.5D.

I-485 FROM I-77 TO NC 51 AND TWO BRIDGE SITES WEST OF JOHNSTON ROAD

SCALE	-NA-		REVISIONS
DATE	12/06		
DWG. BY	TWB		
DESIGN BY			
APPROVED	KC		

PROJECT NO.	SHEET NO.	TOTAL NO.
WBS 38733.3.1	3	3

SUMMARY OF QUANTITIES

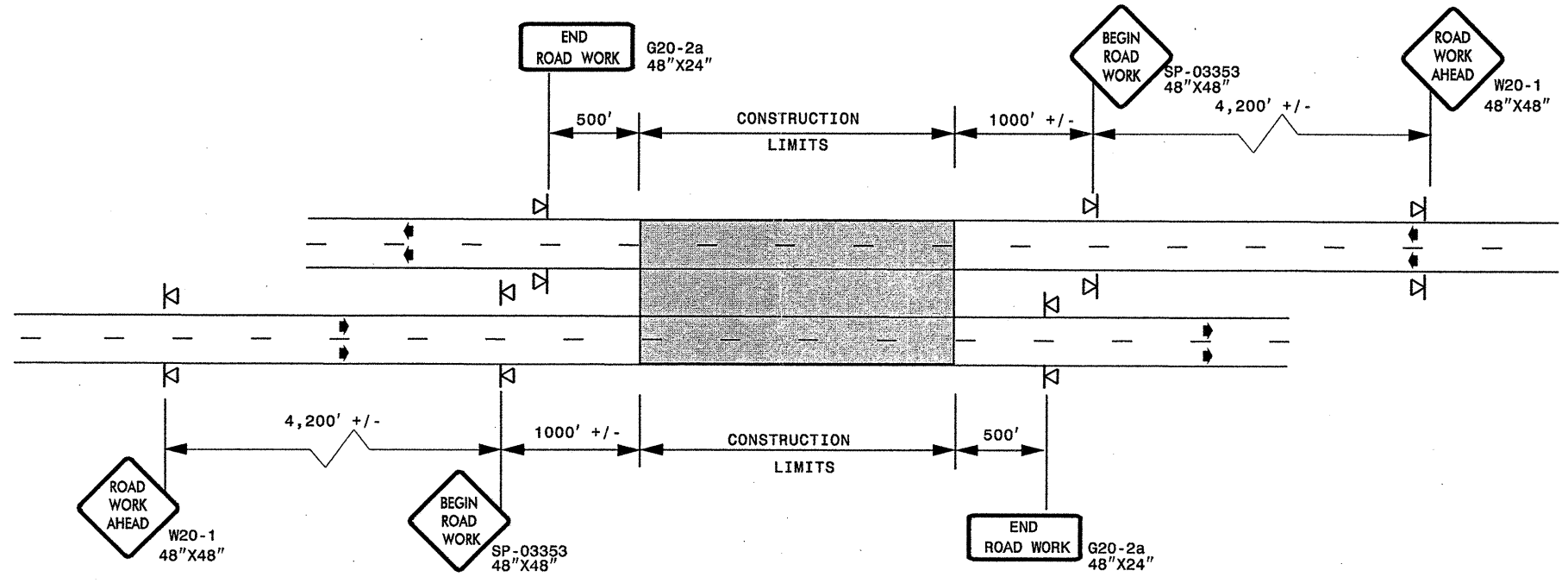
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	SHOULDER RECONSTRUCTION SMI	2" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, \$12.5D TONS	PATCHING TONS	PG 76-22 PLANT MIX TONS	PORTABLE LIGHTING LS
WBS 38733.3.1	Mecklenburg	1	I-485	FROM I-77 TO NC 51 AND TWO BRIDGE SITES WEST OF JOHNSTON ROAD	1,2,3	3.7	36	10.2	3400	1,735	18,350	500	881	1
TOTAL FOR PROJ NO. WBS 38733.3.1						3.7		10.2	3400	1735	18350	500	881	1
GRAND TOTAL						3.7		10.2	3400	1,735	18350	500	881	1

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4400000000-E	4415000000-E	4420000000-N	4300000000-N	4480000000-N	4847100000-E	4847120000-E	4847200000-E	4847220000-E	4810000000-E	4905000000-N
					STATIONARY WORK ZONE SIGN	FLASHING ARROW PANELS, TYPE C	CHANGEABLE MESSAGE SIGNS	DRUMS	TRUCK MOUNTED IMPACT ATTENUATOR (60 MPH)	6" POLYUREA PAVEMENT MARKINGS	12" POLYUREA PAVEMENT MARKINGS	POLYUREA PAVEMENT MARKING CHARACTER (ONLY)	POLYUREA PAVING MARKING CHARACTER SYMBOL	4" WHITE PAINT	SNOW PLOWABLE MARKERS (CRY/RED)
NO		NO			SF	EA	EA	EA	EA	LF	LF	EA	EA	LF	EA
WBS 38733.3.1	Mecklenburg	1	I-485	FROM I-77 TO NC 51 AND TWO BRIDGE SITES WEST OF JOHNSTON ROAD	350	2	2	200	2	73,365	6,550	16	17	60,000	1,000
TOTAL FOR PROJ NO. WBS 38733.3.1					350	2	2	200	2	73,365	6,550	16	17	60,000	1,000
GRAND TOTAL					350	2	2	200	2	73,365	6,550	16	17	60,000	1,000

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

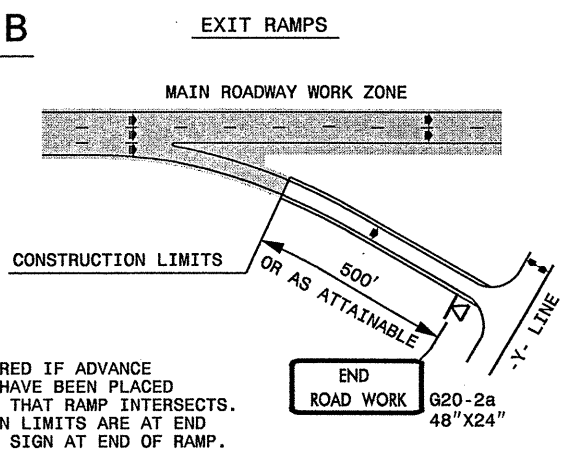
DETAIL A



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

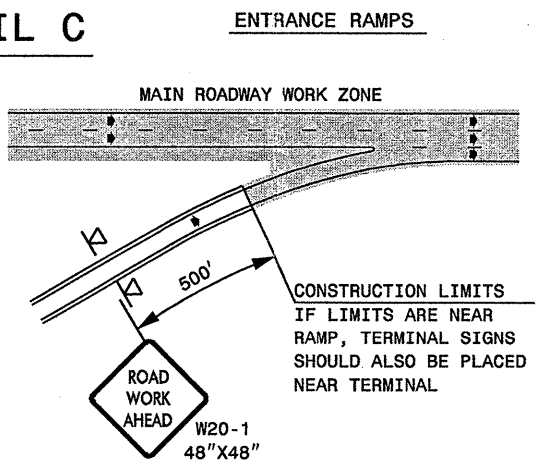
ROADWAYS INTERSECTING ALONG FREEWAY WORK ZONE (Y-LINES)

DETAIL B



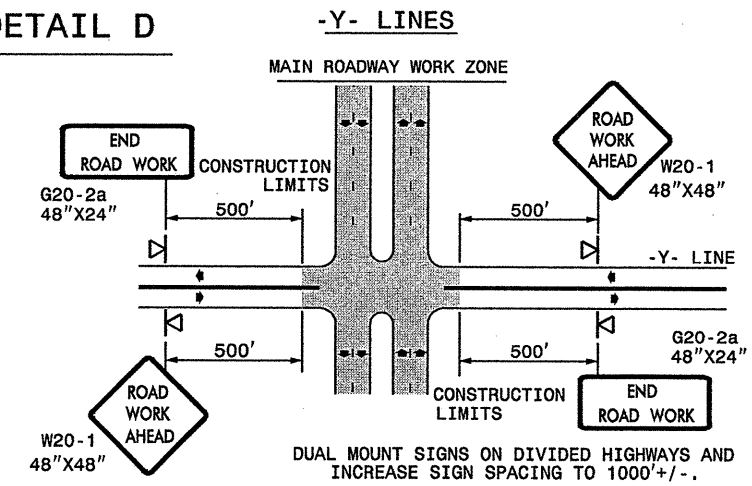
NOTE:
SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

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'+/-.

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

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR FREEWAYS WORK ZONE WARNING SIGNS		
SEAL	SCALE: NONE			
	DATE: _____			REVISIONS
	DWG. BY: _____			7-98 10/01
	DESIGN BY: _____			10-98 03/04
REVIEWED BY: _____	01/01 11/04	<small>CHD FILE</small>		

23-JAN-2007 10:30 \\DOT\DFSGROUPO\GROUPS-WZTCC\design\group4\resurfacing\resurfacing2006\dwg\387333\mecklenburg\387333\freelanesgreat\july2006.dgn pseymore AT WZTCC206427

SP 03353

<p>SIGN NUMBER: SP-03353 TYPE: A QUANTITY: 1</p> <p>SIGN WIDTH: 4'-0" HEIGHT: 4'-0" TOTAL AREA: 16.0 Sq.Ft.</p> <p>BORDER TYPE: FLUSH RECESS: 0.59" WIDTH: 0.75" RADII: 1.38"</p> <p>NO. Z BARS: N/A LENGTH: N/A</p> <p>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" (0.8mm) aluminum and demountable. 4. Background shall be Type VII reflective sheeting. 5. Background shall be Type I reflective sheeting. 6. Center arrow(s) vertically on sign. 7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:</p>	<p>BACKG COLOR: Fluorescent Orange COPY COLOR: Black</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	SYMBOL	X	Y	WID	HT																																														<p>DESIGN BY: CL DOWNEY PROJECT ID: ALL PROJECTS</p> <p>CHECKED BY: CHECKED DIV: DIV</p> <p>STD #: W20-1 DATE: Aug 20, 2003</p>
SYMBOL	X	Y	WID	HT																																																

LETTER POSITIONS										Series/Size
Letter spacings are to start of next letter										Text Length
22.4	5.3	4.8	5.4	2.5	3.8	22.4				C7
	R	O	A	D						21.6
23.4	5	5.2	5.8	3.8	23.4					C7
	W	O	R	K						19.8
22.8	6.4	5.8	5.2	4	22.8					C7
										21.2

Spacing Factor is 1 unless specified otherwise
FILENAME: SPEC18HAK

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

DETAIL DRAWING FOR
WORK ZONE SIGNS
BEGIN ROAD WORK

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

APPROVED: _____ DATE: _____ SEAL	<p>DETAIL DRAWING FOR ADVANCED WORK ZONE WARNING SIGN DESIGNS</p>	<p>REVISIONS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>04/04</td> <td></td> </tr> <tr> <td>11/04</td> <td></td> </tr> </table>	04/04		11/04			
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11/04								
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SCALE: NONE</td> </tr> <tr> <td>DATE: 08/03</td> </tr> <tr> <td>DWG. BY:</td> </tr> <tr> <td>DESIGN BY:</td> </tr> <tr> <td>REVIEWED BY:</td> </tr> </table>	SCALE: NONE	DATE: 08/03	DWG. BY:	DESIGN BY:	REVIEWED BY:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>CADD FILE</td> </tr> </table>	CADD FILE
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DATE: 08/03								
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