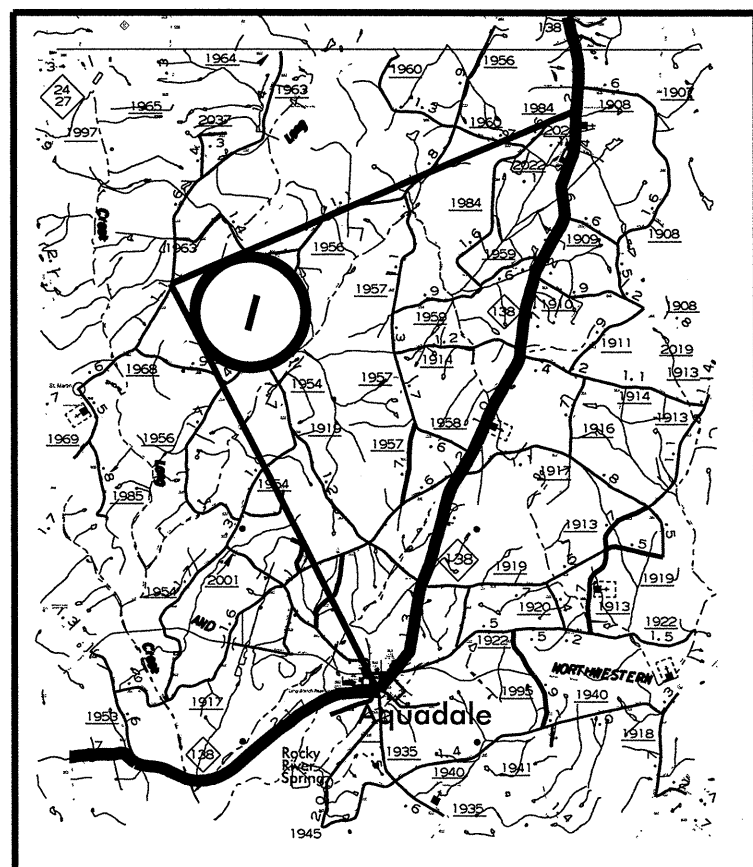


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	IOCR.I084I.34, ETC	I	
F.A. PROJECT NO.			



ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**STANLY COUNTY**  
 NORTH CAROLINA

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



MAP #	ROUTE	DESCRIPTION
1	NC 138	FROM SR 1984 (UNION GROVE ROAD) TO SR 1935 (PLANK ROAD)
2	SR 1134 (MILLINGPORT ROAD)	FROM NC 73 TO SOUTH CITY LIMITS OF RICHFIELD
3	SR 1124 (OAKGROVE ROAD)	FROM SR 1115 (OAKGROVE ROAD) TO SR 1001 (LOVE CHAPEL ROAD)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	IOCR.10841.34, ETC	2	
F.A. PROJECT NO.			

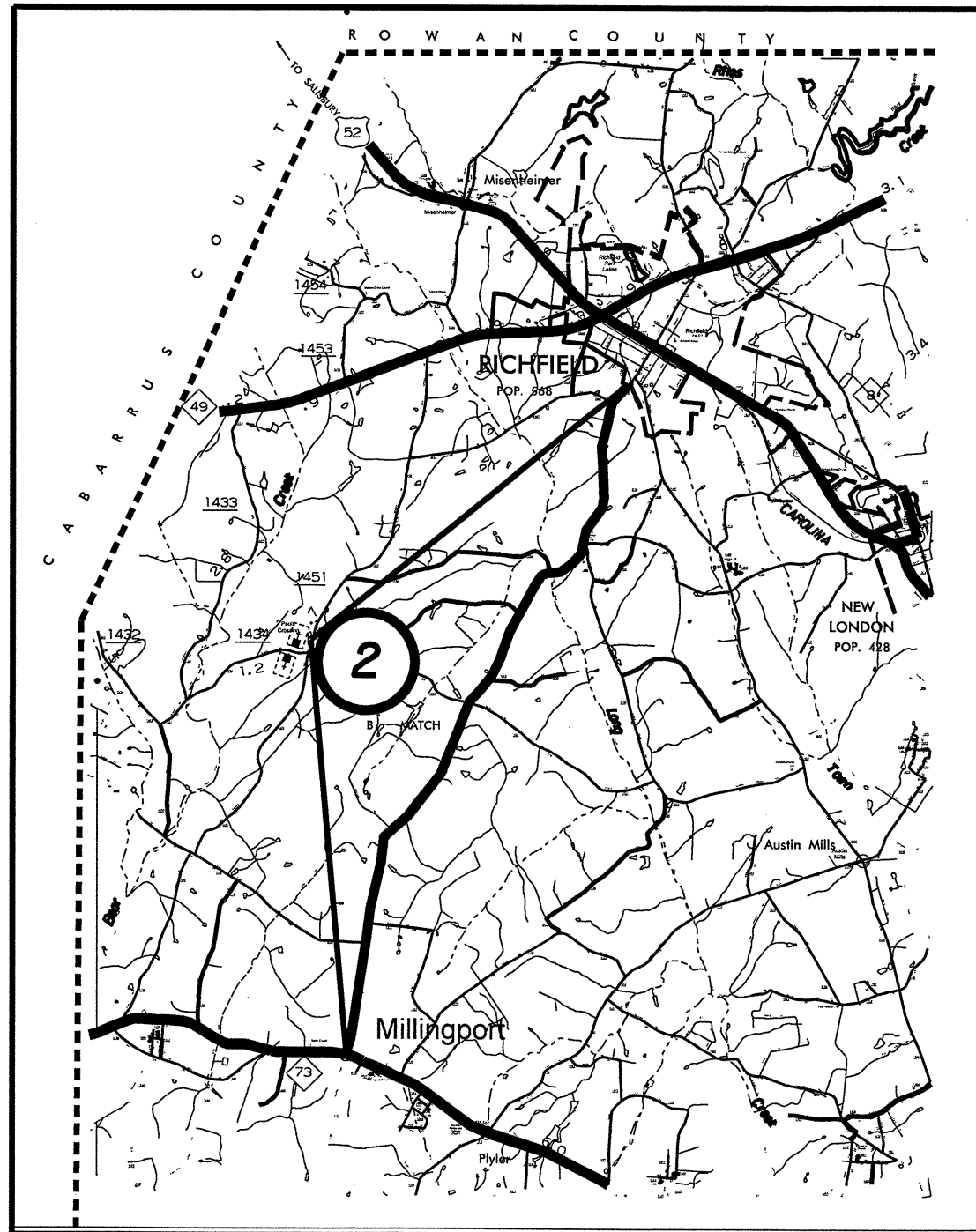


ENLARGED MUNICIPAL AND SUBURBAN AREAS

# STANLY COUNTY

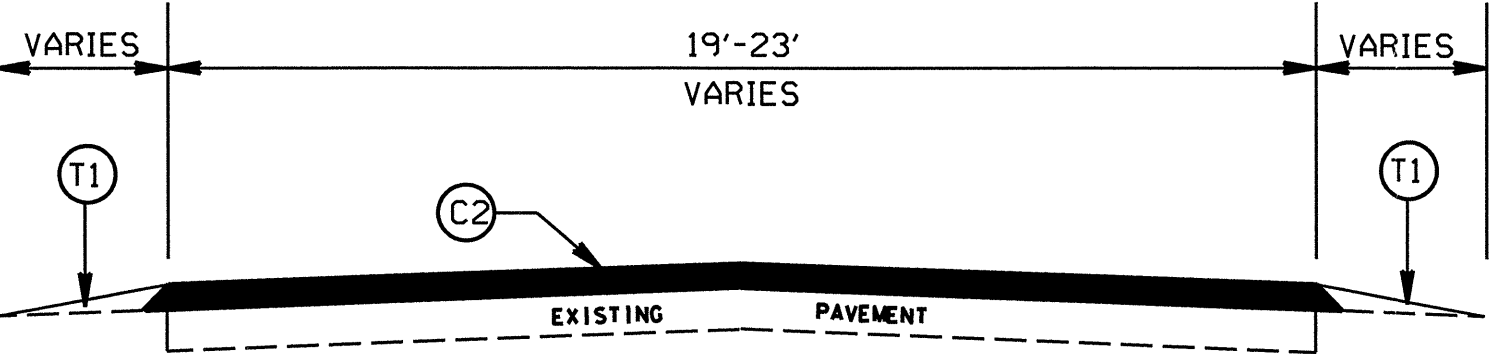
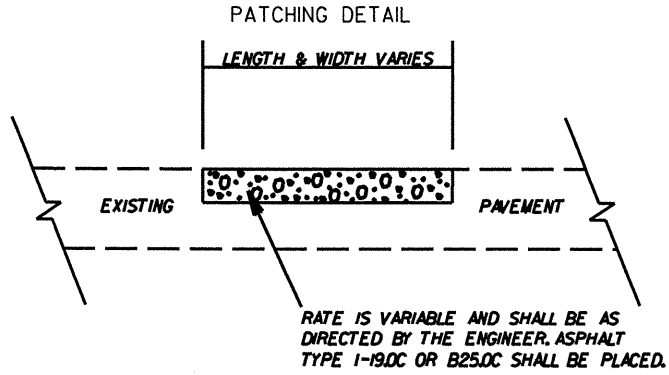
NORTH CAROLINA

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

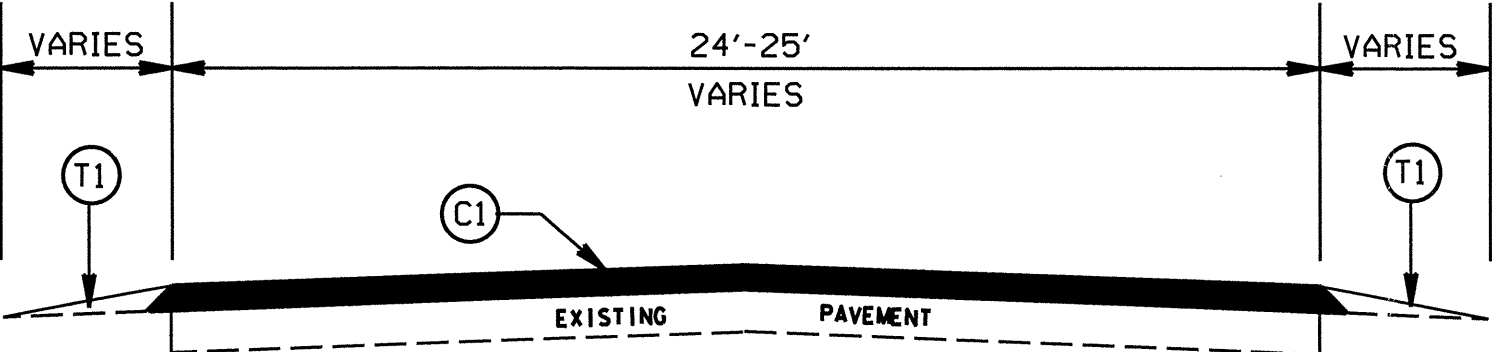


MAP #	ROUTE	DESCRIPTION
1	NC 138	FROM SR 1984 (UNION GROVE ROAD) TO SR 1935 (PLANK ROAD)
2	SR 1134 (MILLINGPORT ROAD)	FROM NC 73 TO SOUTH CITY LIMITS OF RICHFIELD
3	SR 1124 (OAKGROVE ROAD)	FROM SR 1115 (OAKGROVE ROAD) TO SR 1001 (LOVE CHAPEL ROAD)

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	IOCR.10841.34, ETC	3	
F.A. PROJECT NO.			



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.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION

**STANLY COUNTY  
RESURFACING 2012**

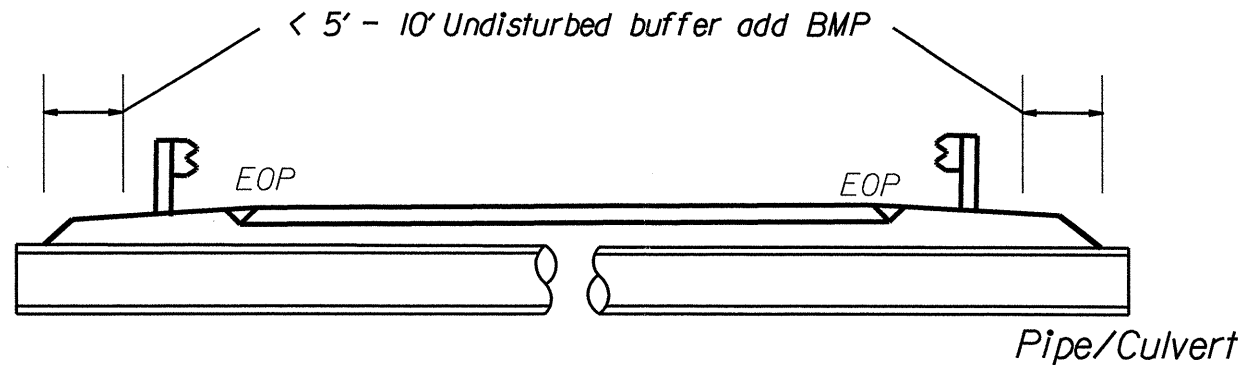
SCALE	-NA-		REVISIONS
DATE	4/11		
DWG. BY	JDA		
DESIGN BY	JDA		
APPROVED	MPV		

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

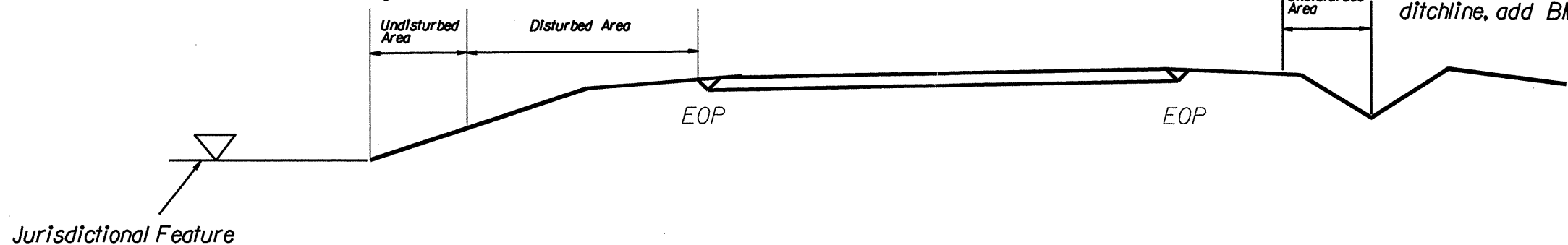
BMP Options: Wattle or Silt Fence

# EROSION CONTROL DETAIL

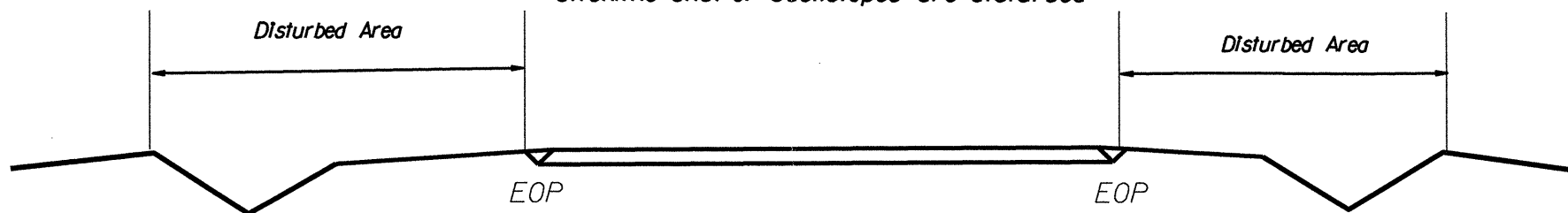
PROJECT REFERENCE NO. 10CR10841.34.ETC	SHEET NO. EC-1
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



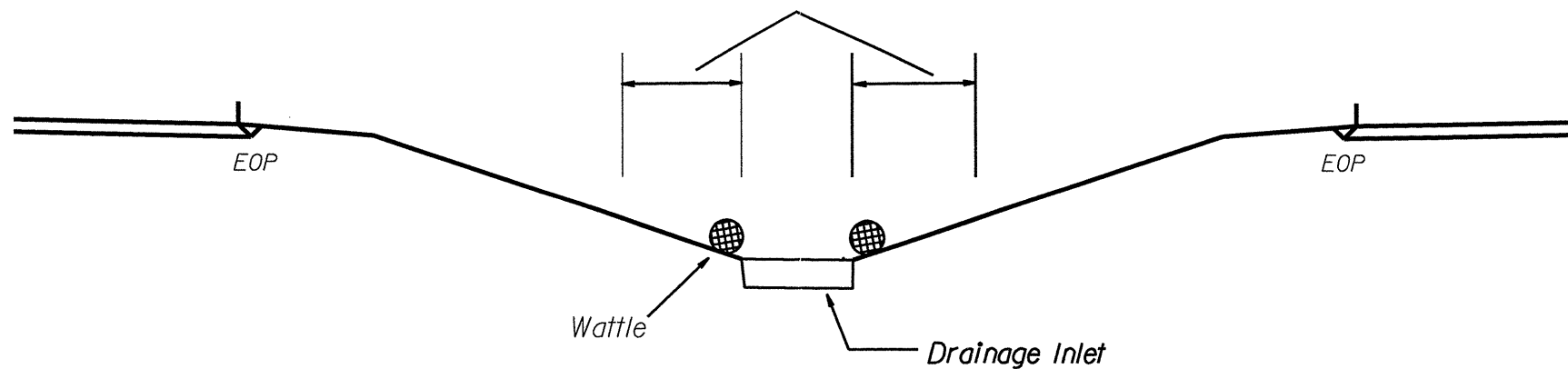
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP



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



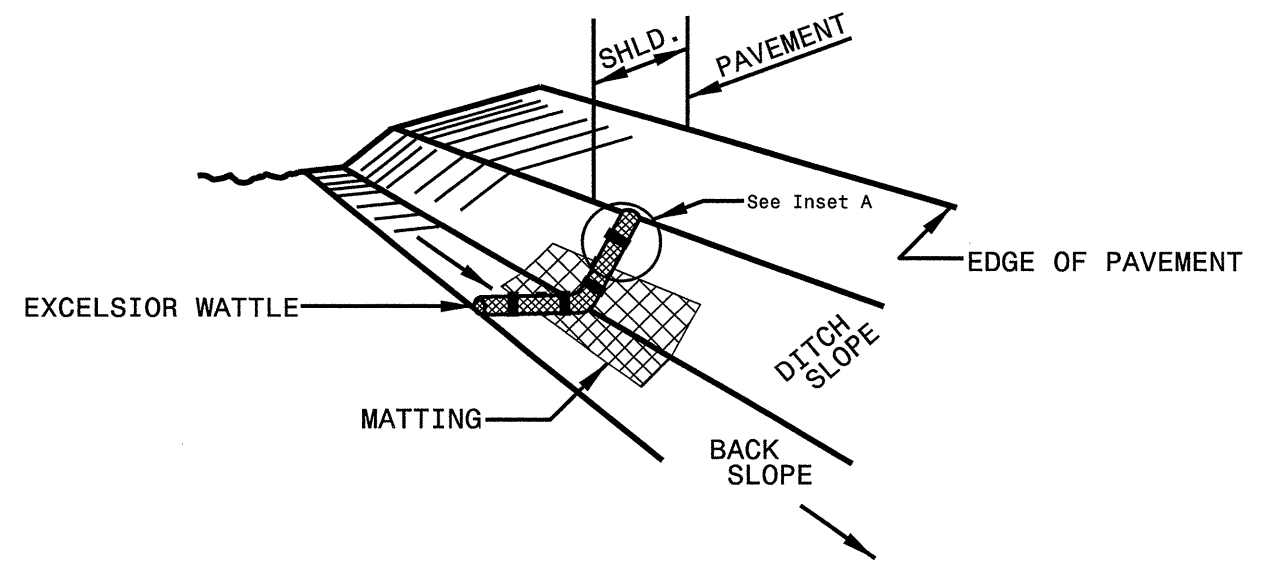
< 5' - 10' Undisturbed buffer from inlet, add wattle



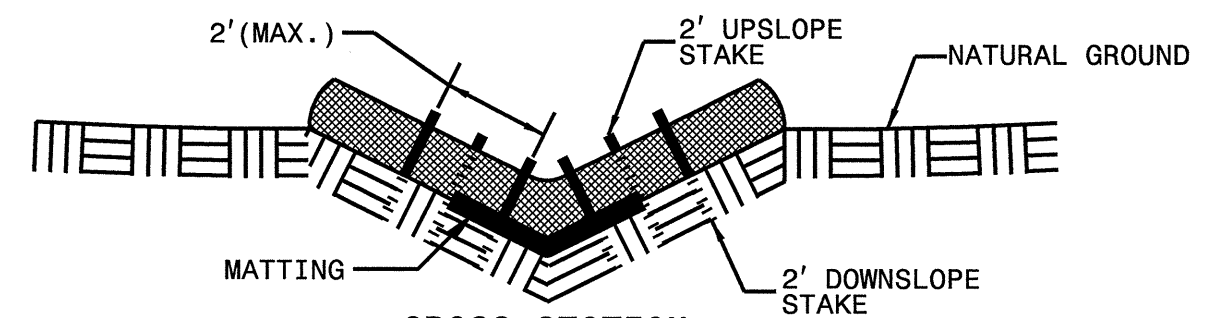
NOT TO SCALE

PROJECT REFERENCE NO. <b>10CR10841.34.ETC</b>	SHEET NO. <b>EC-2</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

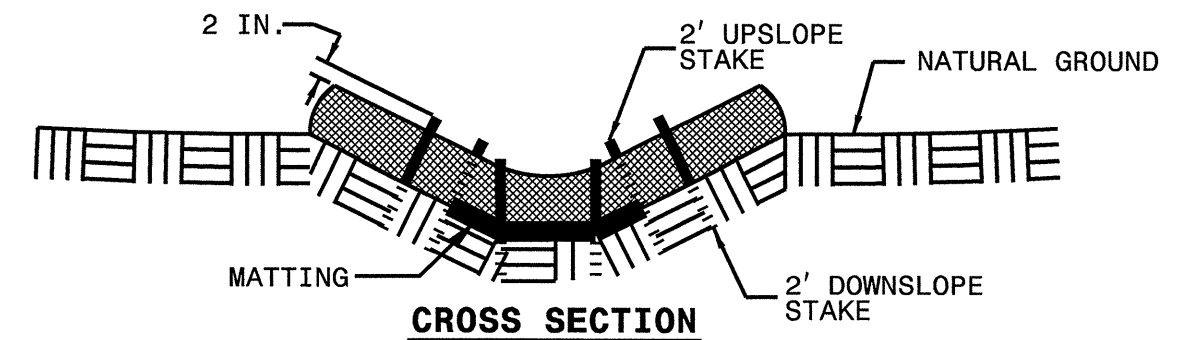
# WATTLE DETAIL



**ISOMETRIC VIEW**

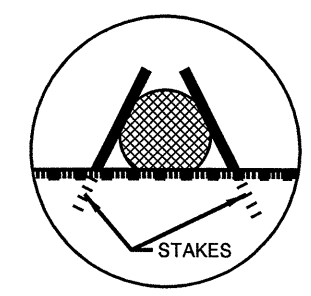


**CROSS SECTION VEE DITCH**

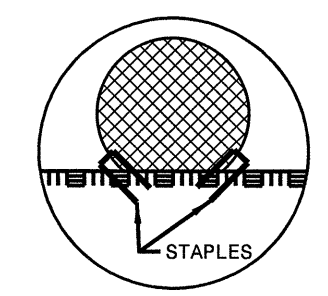


**CROSS SECTION TRAPEZOIDAL DITCH**

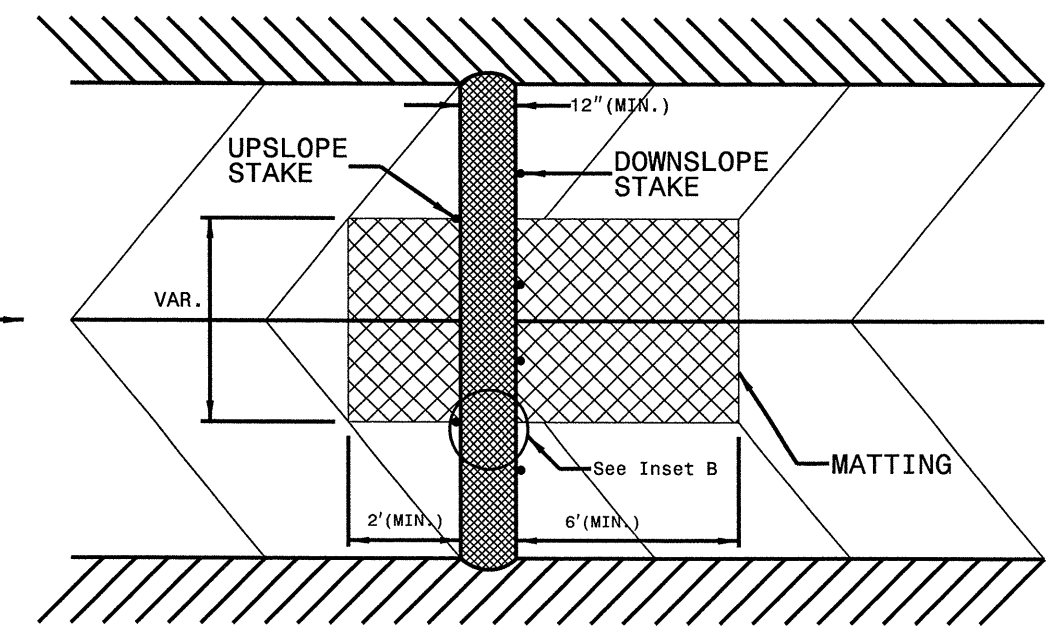
- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 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.



INSET A



INSET B



**TOP VIEW**

PROJECT NO.	SHEET NO.	TOTAL NO.
10CR.10841.34, 10CR.20841.36, 10CR.20841.37	4	

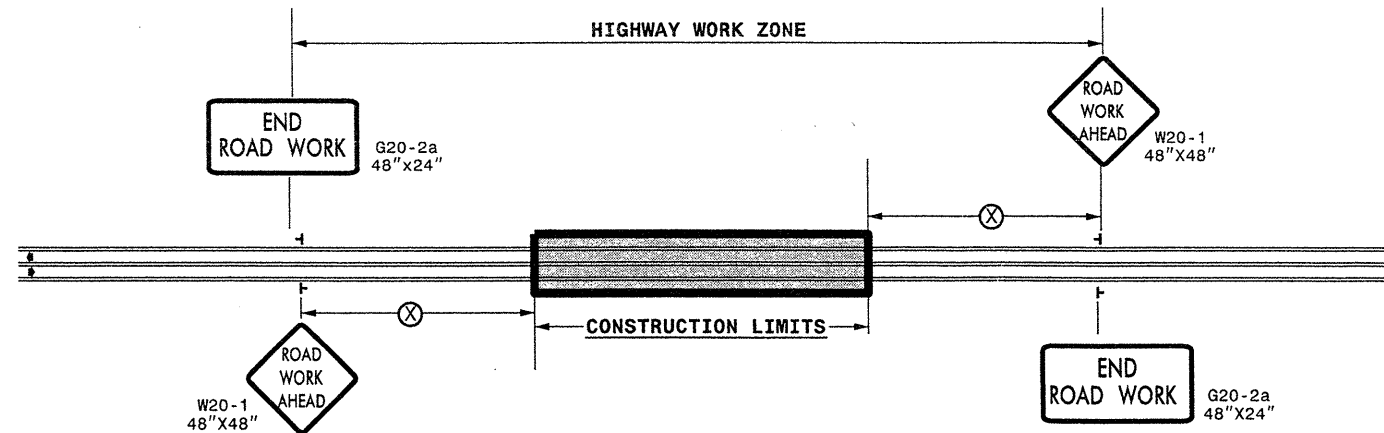
### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	AGGREGATE SHOULDER BORROW ALLOWED	LENGTH MI	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1½" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	PG 64-22 PLANT MIX TONS	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, S9.5C TONS	PG 70-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	TEMPORARY SILT FENCE LF	MATTING (EROSION CONTROL) SY	WATTLE LF
10CR.10841.34	Stanly	1	NC 138	FROM SR 1984 (UNION GROVE RD) TO SR 1935 (PLANK RD)	1	NO	NO	5.55	25	222	1,550	11.10		240				7,916	833	529	1,400	300	1,280	800
<b>TOTAL FOR MAP NO. 1</b>								<b>5.55</b>		<b>222</b>	<b>1,550</b>	<b>11.10</b>		<b>240</b>				<b>7,916</b>	<b>833</b>	<b>529</b>	<b>1,400</b>	<b>300</b>	<b>1,280</b>	<b>800</b>
<b>TOTAL FOR PROJ NO. 10CR.10841.34</b>								<b>5.55</b>		<b>222</b>	<b>1,550</b>	<b>11.10</b>		<b>240</b>				<b>7,916</b>	<b>833</b>	<b>529</b>	<b>1,400</b>	<b>300</b>	<b>1,280</b>	<b>800</b>
10CR.20841.36	Stanly	2	SR 1134 (MILLINGPORT RD)	FROM NC 73 TO SOUTH CITY LIMITS RICHFIELD	2	NO	NO	6.43	23	257	475	12.86	660		8,335	500	533				1,610	300	768	480
<b>TOTAL FOR MAP NO. 2</b>								<b>6.43</b>		<b>257</b>	<b>475</b>	<b>12.86</b>	<b>660</b>		<b>8,335</b>	<b>500</b>	<b>533</b>				<b>1,610</b>	<b>300</b>	<b>768</b>	<b>480</b>
<b>TOTAL FOR PROJ NO. 10CR.20841.36</b>								<b>6.43</b>		<b>257</b>	<b>475</b>	<b>12.86</b>	<b>660</b>		<b>8,335</b>	<b>500</b>	<b>533</b>				<b>1,610</b>	<b>300</b>	<b>768</b>	<b>480</b>
10CR.20841.37	Stanly	3	SR 1124 (OAKGROVE RD)	FROM SR 1115 (OAKGROVE RD) TO SR 1001 (LOVE CHAPEL RD)	2	NO	NO	0.94	21	38	47	1.88		110	1,076	140	74				235	100	768	480
<b>TOTAL FOR MAP NO. 3</b>								<b>0.94</b>		<b>38</b>	<b>47</b>	<b>1.88</b>		<b>110</b>	<b>1,076</b>	<b>140</b>	<b>74</b>				<b>235</b>	<b>100</b>	<b>768</b>	<b>480</b>
<b>TOTAL FOR PROJ NO. 10CR.20841.37</b>								<b>0.94</b>		<b>38</b>	<b>47</b>	<b>1.88</b>		<b>110</b>	<b>1,076</b>	<b>140</b>	<b>74</b>				<b>235</b>	<b>100</b>	<b>768</b>	<b>480</b>
<b>GRAND TOTAL</b>								<b>12.92</b>		<b>517</b>	<b>2,072</b>	<b>25.84</b>	<b>660</b>	<b>350</b>	<b>9,411</b>	<b>640</b>	<b>607</b>	<b>7,916</b>	<b>833</b>	<b>529</b>	<b>3,245</b>	<b>700</b>	<b>2,816</b>	<b>1,760</b>

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4685000000-E	4686000000-E	4705000000-E	4710000000-E	4721000000-E	4810000000-E		4820000000-E	4840000000-N		4900000000-N
							4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO RXR 120 M EA	4" YELLOW PAINT LF	4" WHITE PAINT LF	8" WHITE PAINT LF	PAINT MSG STOP EA	PAINT MSG AHEAD EA	YELLOW & YELLOW MARKERS EA
10CR.10841.34	Stanly	1	NC 138	FROM SR 1984 (UNION GROVE RD) TO SR 1935 (PLANK RD)	5.55	25	59,718	36,630	50	55	4	54,112					366
<b>TOTAL FOR MAP NO. 1</b>					<b>5.55</b>		<b>59,718</b>	<b>36,630</b>	<b>50</b>	<b>55</b>	<b>4</b>	<b>54,112</b>					<b>366</b>
<b>TOTAL FOR PROJ NO. 10CR.10841.34</b>					<b>5.55</b>		<b>59,718</b>	<b>36,630</b>	<b>50</b>	<b>55</b>	<b>4</b>	<b>54,112</b>					<b>366</b>
												<b>54,112</b>					
10CR.20841.36	Stanly	2	SR 1134 (MILLINGPORT RD)	FROM NC 73 TO SOUTH CITY LIMITS RICHFIELD	6.43	23						138,374	138,374	46	4	5	424
<b>TOTAL FOR MAP NO. 2</b>					<b>6.43</b>							<b>138,374</b>	<b>138,374</b>	<b>46</b>	<b>4</b>	<b>5</b>	<b>424</b>
<b>TOTAL FOR PROJ NO. 10CR.20841.36</b>					<b>6.43</b>							<b>138,374</b>	<b>138,374</b>	<b>46</b>	<b>4</b>	<b>5</b>	<b>424</b>
												<b>276,748</b>			<b>9</b>		
10CR.20841.37	Stanly	3	SR 1124 (OAKGROVE RD)	FROM SR 1115 (OAKGROVE RD) TO SR 1001 (LOVE CHAPEL RD)	0.94	21						20,229	20,229				62
<b>TOTAL FOR MAP NO. 3</b>					<b>0.94</b>							<b>20,229</b>	<b>20,229</b>				<b>62</b>
<b>TOTAL FOR PROJ NO. 10CR.20841.37</b>					<b>0.94</b>							<b>20,229</b>	<b>20,229</b>				<b>62</b>
												<b>40,458</b>					
<b>GRAND TOTAL</b>					<b>12.92</b>		<b>59,718</b>	<b>36,630</b>	<b>50</b>	<b>55</b>	<b>4</b>	<b>212,715</b>	<b>158,603</b>	<b>46</b>	<b>4</b>	<b>5</b>	<b>852</b>
												<b>371,318</b>			<b>9</b>		

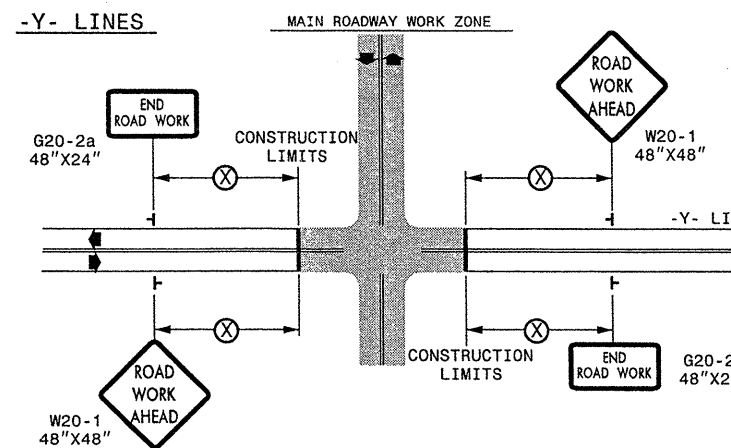
**TWO-WAY UNDIVIDED \*\* (L-LINES)**



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)**



DETAIL DRAWING FOR  
TWO-WAY UNDIVIDED  
WORK ZONE WARNING SIGNS

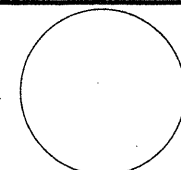
**GENERAL NOTES**

- 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.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- \*\* 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**

- ┆ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

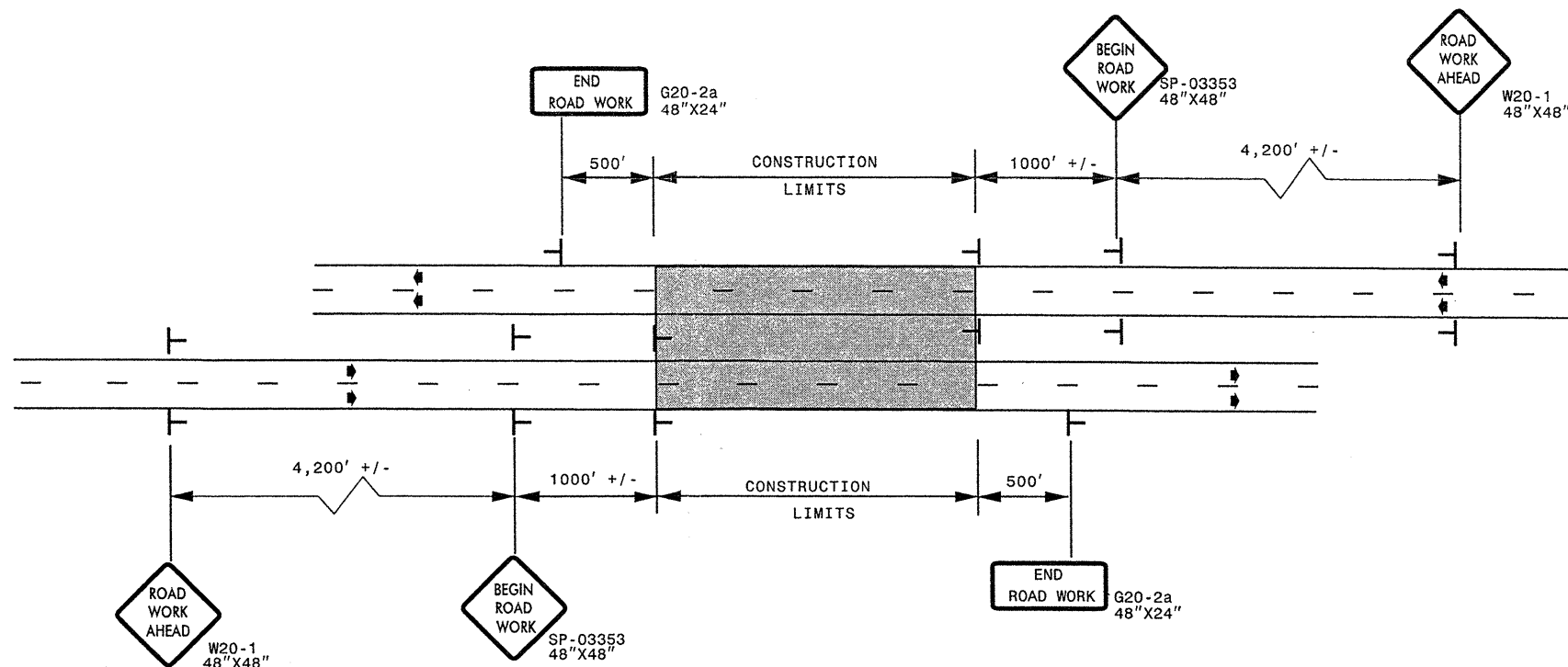
APPROVED: _____ DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
SEAL 	SCALE: NONE	REVISIONS
	DATE: _____	7-98 10/01
	DWG. BY: _____	10-98 03/04
	DESIGN BY: _____	01/01 11/04
REVIEWED BY: _____	CHD FILE	

26-APR-2011 10:30 AM C:\WORK\GROUPS\WZ\TCC\T.M\WZTC\Resur\facimg\2011\Western\2011\Div10\C202789A-C\IOCR.10841.34x3.Stanly\_NCI381sg\C202789A-C\IOCR.10841.34x3.2way\_Undiv.&\_Urban\_Fr.wys\_stationary.dgn

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

PROJ. REFERENCE NO.	SHEET NO.
10CR.10841.34	TCP-2
10CR.20841.36-.37	

## DETAIL A



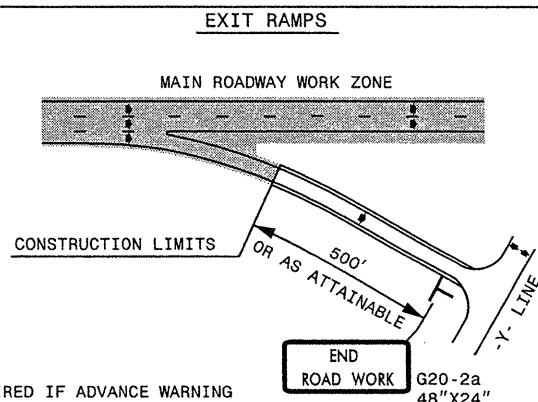
**LEGEND**

— STATIONARY SIGN

→ DIRECTION OF TRAFFIC FLOW

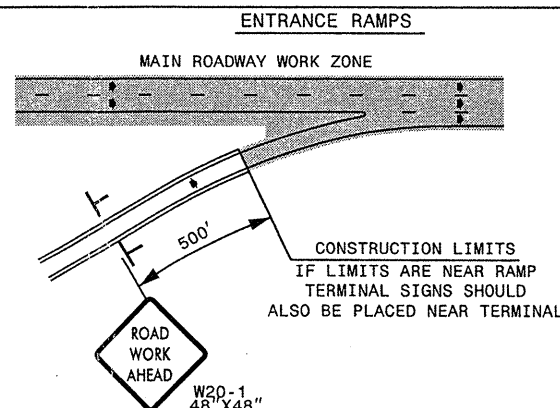
\* USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

## DETAIL B



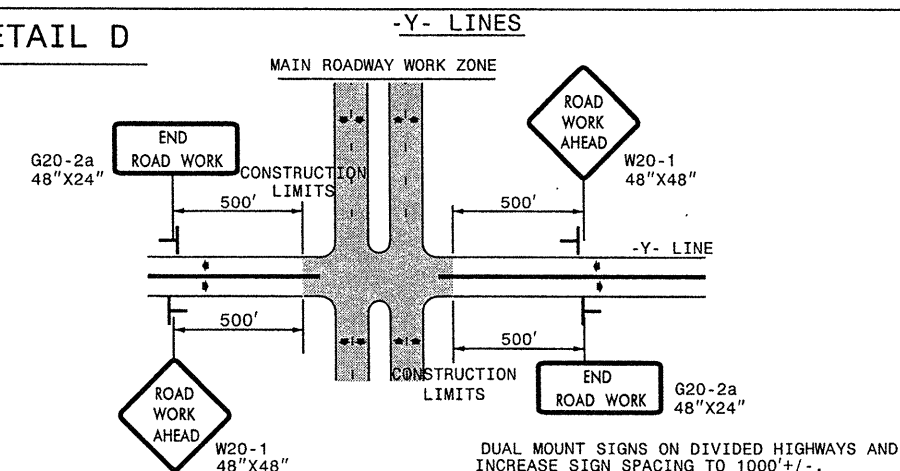
NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

## 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' +/-.

## 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.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

APPROVED: _____	DATE: _____	<b>ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)</b>	
SEAL	SCALE: NONE		REVISIONS
	DATE: 8/03		03/04
	DWG. BY: JI		
	DESIGN BY: JI		
	REVIEWED BY: _____		

26-APR-2011 11:16 \\DOT\VF\SR00701\GROUP5-WZTC\Resur facing\2011Resur facing\2011Western\2011Div10\C202789A-C\10CR.10841.34x3.Stony.NC138(isp)\C202789A-C\10CR.10841.34x3.freeways\_4lanes\_or\_greater\_stationary.dgn