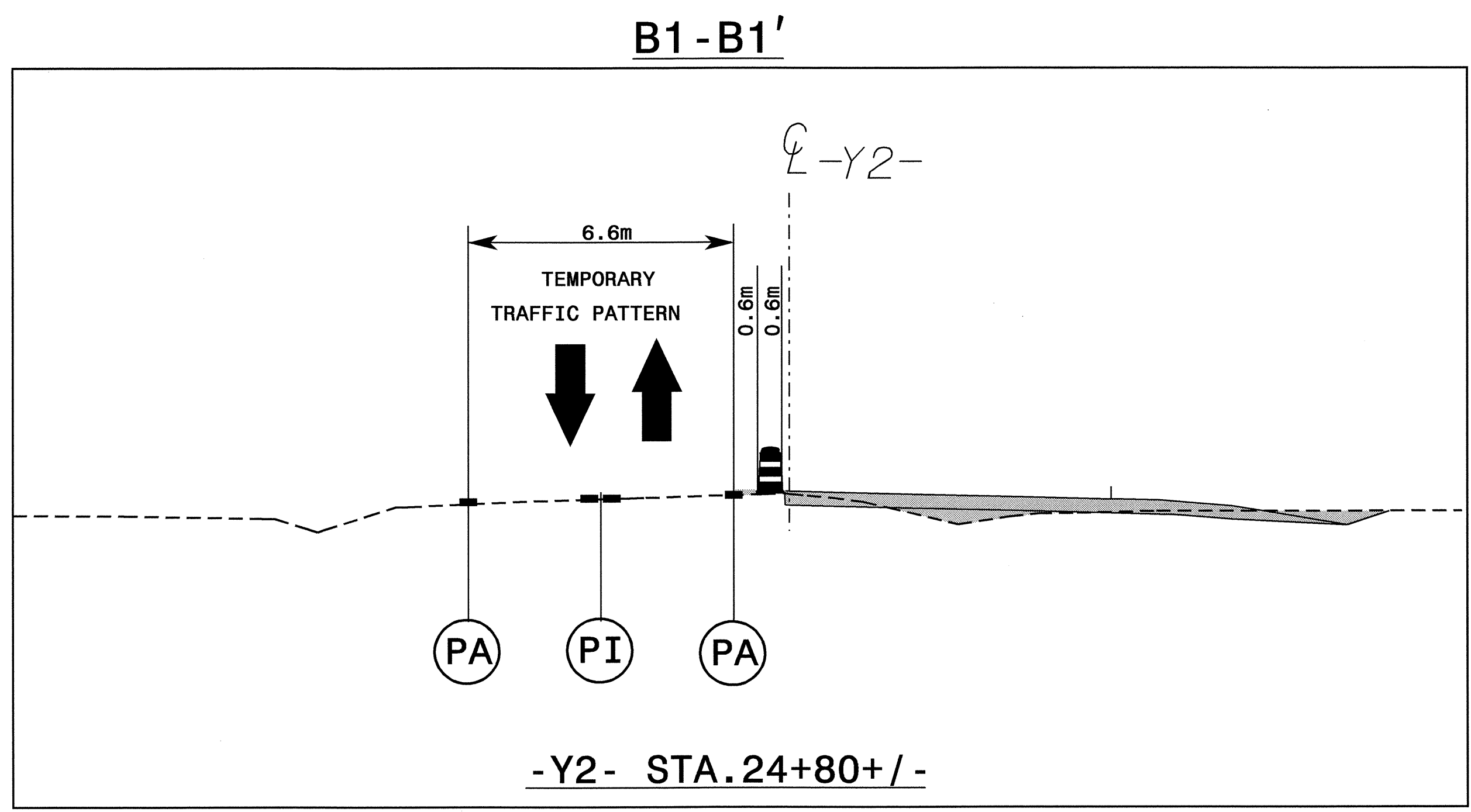
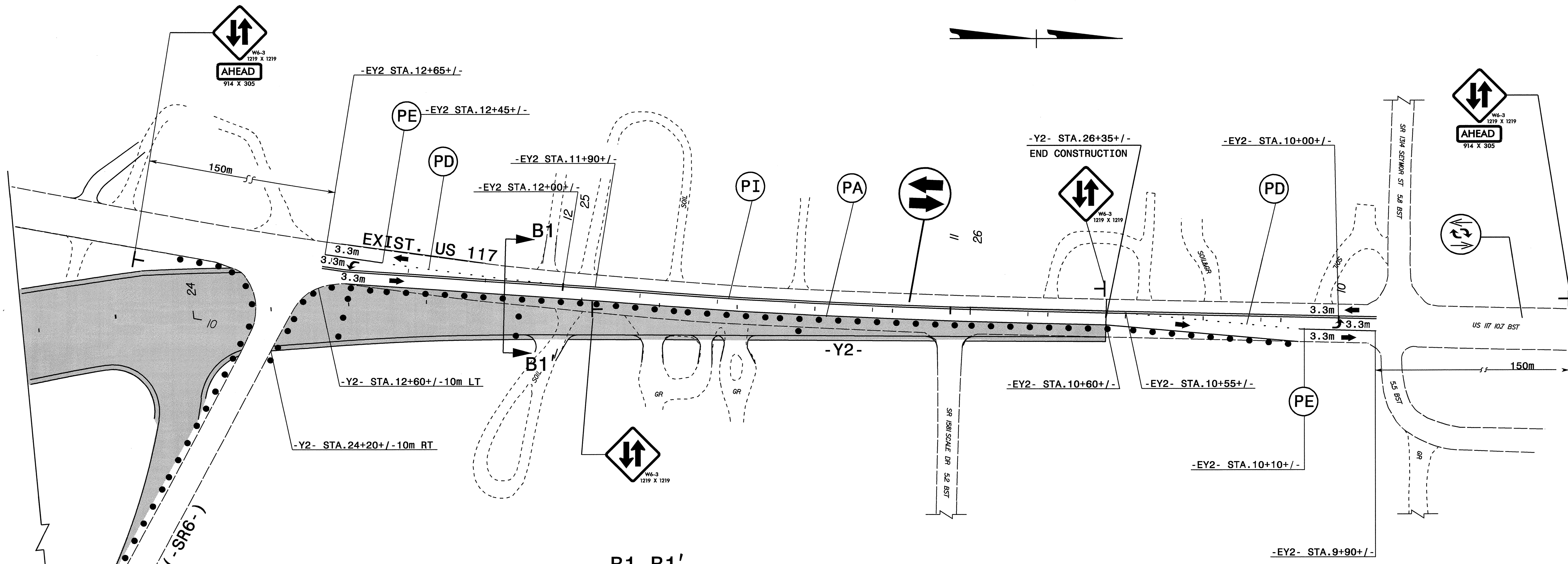




PROJ. REFERENCE NO.	SHEET NO.
R-2554BA	TCP-21



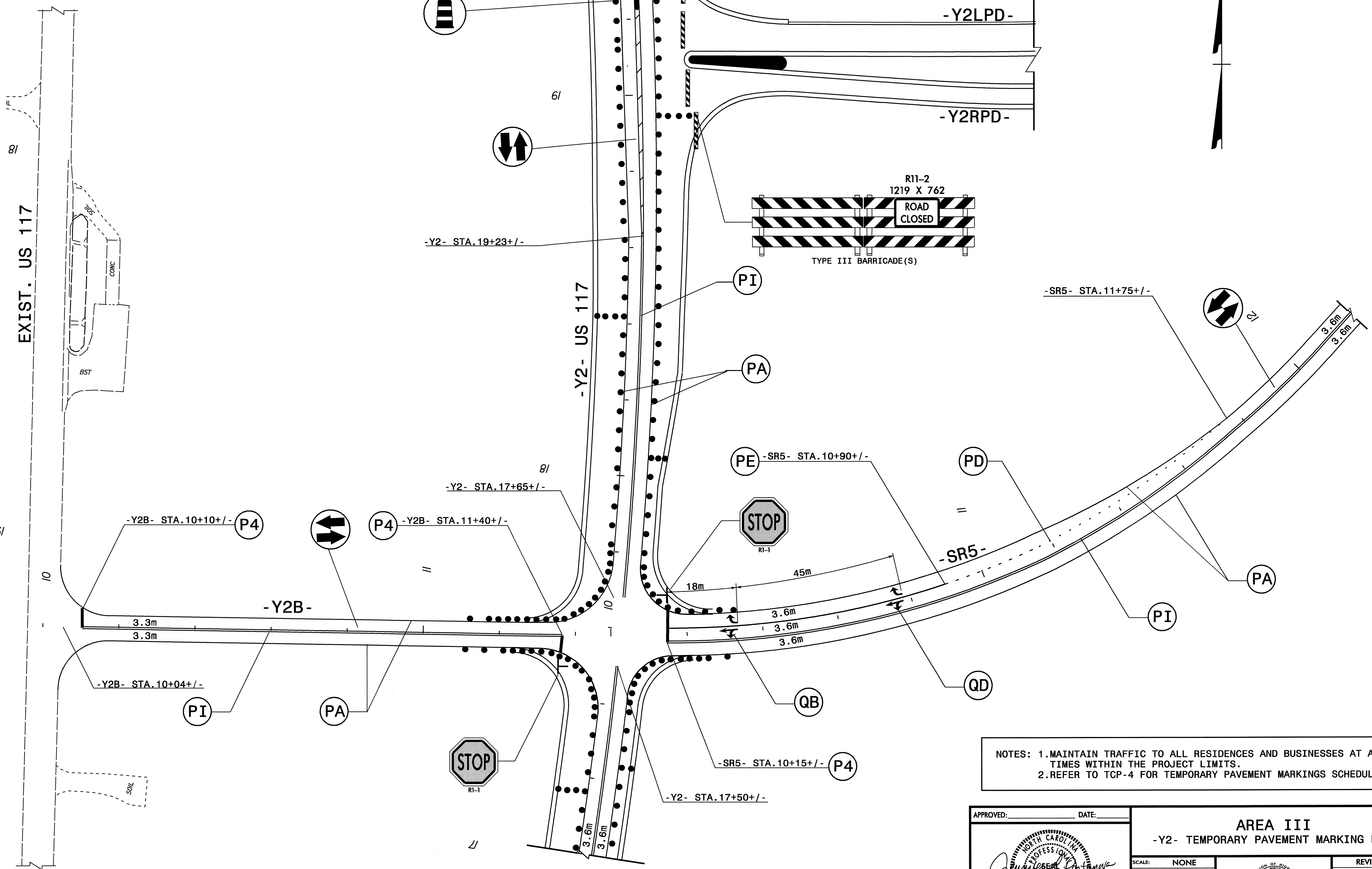
NOTES:
 1. MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES WITHIN THE PROJECT LIMITS.
 2. REFER TO TCP-4 FOR TEMPORARY PAVEMENT MARKING SCHEDULE.

APPROVED:	DATE:	AREA III PHASE I, STEP 4	
	12/3/07		
SCALE:	NONE		REVISIONS
DATE:	OCT-07		
DWG. BY:	AYL		
DESIGN BY:	AYL		
REVIEWED BY:	JLP		CADD FILE

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EXIST. US 117



NOTES: 1. MAINTAIN TRAFFIC TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES WITHIN THE PROJECT LIMITS.
 2. REFER TO TCP-4 FOR TEMPORARY PAVEMENT MARKINGS SCHEDULE.

APPROVED: _____	DATE: _____	AREA III -Y2- TEMPORARY PAVEMENT MARKING PLAN	
		SCALE: NONE	REVISIONS
DATE: OCT-07			
DWG. BY: AYL			
DESIGN BY: AYL			
REVIEWED BY: JLP			

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 djvudmi AT WZ TC237440



PROJ. REFERENCE NO.	SHEET NO.
R-2554BA	TCP-26

AREA IV PHASING

MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES WITHIN THE PROJECT LIMITS

STEP 1:
INSTALL ADVANCED WORK ZONE WARNING SIGNS ON ALL ROADS IN THIS AREA AS REQUIRED IN PROJECT NOTES. SEE SHEETS TCP-2, TCP-3 & TCP-29.

STEP 2:
- USING RSD 1101.02, SHEET 1 OF 9, BEGIN DRAINAGE WORK REQUIRED IN AREA IV. AT THE END OF EACH WORK DAY, RETURN TRAFFIC TO EXISTING PATTERN. SEE ROADWAY PLANS.

- AWAY FROM TRAFFIC, CONSTRUCT -Y8DET- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM -Y8DET- STA.10+50+/- TO -Y8DET- STA.16+50+/-.

COMPLETE THE WORK REQUIRED IN STEP 3 IN ONE WEEKEND FROM 7:00 P.M. FRIDAY TO 7:00 A.M. THE FOLLOWING MONDAY. SEE SPECIAL PROVISION

STEP 3:
1. USING RSD 1101.02, SHEET 1 OF 9, PERFORM THE TIE IN CONSTRUCTION AS FOLLOW (SEE SHEET TCP-27):
1) PLACE WAYNE MEMORIAL DR. TRAFFIC IN ONE-LANE, TWO-WAY TEMPORARY PATTERN ON THE EXISTING NB LANE.

2) CONSTRUCT TIE IN WORK UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE OF -Y8DET- SB LANE WITH WAYNE MEMORIAL DR. FROM -Y8DET- STA.10+00+/- TO -Y8DET- STA.10+80+/- AND FROM -Y8DET- STA.16+20+/- TO -Y8DET- STA.17+06+/-.

3) SHIFT WAYNE MEMORIAL DR. TRAFFIC IN ONE-LANE, TWO-WAY TEMPORARY PATTERN ON -Y8DET- SB LANE.

4) CONSTRUCT TIE IN WORK UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE OF -Y8DET- NB LANE WITH WAYNE MEMORIAL DR. FROM -Y8DET- STA.10+00+/- TO -Y8DET- STA.10+80+/- AND FROM -Y8DET- STA.16+20+/- TO -Y8DET- STA.17+06+/-.

5) PLACE FINAL SURFACE COURSE AND FINAL PAVEMENT MARKING (PAINT) & FINAL PAVEMENT MARKERS (PERMANENT RAISED) ON -Y8DET- FROM STA.10+00+/- TO STA.17+06+/- . SEE SHEET TCP-28.

2. USING RSD 1101.03, SHEET 3 OF 9, CLOSE WAYNE MEMORIAL DR. FROM -Y8- STA.12+80+/- TO -Y8- STA.18+60+/- AND PLACE TRAFFIC IN TWO-LANE, TWO-WAY PATTERN ONTO -Y8DET-. SEE SHEET TCP-27.

STEP 4:
- AWAY FROM TRAFFIC, PERFORM THE FOLLOWING:
1) COMPLETE DRAINAGE WORK REQUIRED IN AREA IV.
2) CONSTRUCT PROPOSED STRUCTURE No.16 OVER -L- AND -Y8- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM STA.12+80+/- TO STA.18+50+/- .
3) CONSTRUCT MEDIAN ISLANDS AT THE FOLLOWING LOCATIONS (SEE SHEET TCP-28):
*FROM -Y8- STA.14+35+/- TO -Y8- STA.14+65+/- AND
*FROM -Y8- STA.17+07+/- TO -Y8- STA.17+37+/-
4) CONSTRUCT TIE IN UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE OF PROPOSED -Y8- WITH -Y8RPA- AND -Y8RPD- ON THE FOLLOWING LOCATIONS:
*FROM -Y8RPA- STA.14+40+/- TO THE INTERSECTION WITH -Y8- AND
*FROM -Y8RPD- STA.15+00+/- TO THE INTERSECTION WITH -Y8- .

- AWAY FROM TRAFFIC, INSTALL AND COVER PROPOSED SIGNAL ON -Y8- AT -Y8RPC-/-Y8RPD-. SEE ROADWAY AND SIGNALS PLANS.

COMPLETE THE WORK REQUIRED IN STEP 5 IN ONE WEEKEND FROM 7:00 P.M. FRIDAY TO 7:00 A.M. THE FOLLOWING MONDAY. SEE SPECIAL PROVISION

STEP 5:
1. USING RSD 1101.02, SHEET 1 OF 9, AND WORKING IN CONTINUOUS MANNER, PERFORM THE FOLLOWING:
AT THE END OF A WORK PERIOD, PLACE TRAFFIC ON -Y8- IN THE TEMPORARY PATTERN AS SHOWN ON SHEET TCP-29.

1) PLACE -Y8DET- TRAFFIC IN ONE-LANE, TWO-WAY PATTERN ON -Y8DET- SB LANE.

2) CONSTRUCT TIE IN WORK UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE OF PROPOSED -Y8- NB LANE WITH -Y8DET- FROM -Y8- STA.11+30+/- TO -Y8- STA.12+80+/- AND FROM -Y8- STA.18+20+/- TO -Y8- STA.19+95+/- . PLACE TEMPORARY PAVEMENT MARKING (PAINT) & TEMPORARY PAVEMENT MARKERS (TEMPORARY RAISED) ON THE PROPOSED -Y8- NB LANE FROM STA.11+30+/- TO STA.19+95+/- .

3) SHIFT -Y8DET- TRAFFIC IN ONE-LANE, TWO-WAY TRAFFIC PATTERN ON THE PROPOSED -Y8- NB LANE.

4) CONSTRUCT TIE IN WORK UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE OF PROPOSED -Y8- SB LANE WITH -Y8DET- FROM -Y8- STA.11+30+/- TO -Y8- STA.12+80+/- AND FROM -Y8- STA.18+20+/- TO -Y8- STA.19+95+/- . PLACE TEMPORARY PAVEMENT MARKING (PAINT) & TEMPORARY PAVEMENT MARKERS (TEMPORARY RAISED) ON THE PROPOSED -Y8- SB LANE FROM STA.11+30+/- TO STA.19+95+/- .

5) REMOVE ALL TRAFFIC CONTROL DEVICES INSTALLED IN STEP 3 USED TO CLOSE WAYNE MEMORIAL DR. AND PLACE TRAFFIC ONTO -Y8- IN TWO-LANE, TWO-WAY PATTERN.

2. AWAY FROM TRAFFIC, BEGIN TO REMOVE TEMPORARY DETOUR FROM -Y8DET- STA.10+80+/- TO -Y8DET- STA.16+80+/- .

STEP 6:
AWAY FROM TRAFFIC, COMPLETE CONSTRUCTION UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE OF PROPOSED -Y8RPB- AND -Y8RPC- ON THE FOLLOWING LOCATIONS:
FROM -Y8RPB- STA.14+20+/- TO -Y8RPB- STA.14+40+/- AND
FROM -Y8RPC- STA.13+80+/- TO -Y8RPC- STA.14+00+/- .


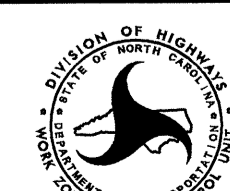
STEP 7:
USING RSD 1101.02, SHEET 1 OF 9, PERFORM THE FOLLOWING:
AT THE END OF EACH WORK DAY, RETURN TRAFFIC TO THE EXISTING PATTERN. SEE ROADWAY PLANS AND FINAL PAVEMENT MARKING PLANS.

- PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKING (PAINT) & FINAL PAVEMENT MARKINGS (PERMANENT RAISED) ON -Y8- FROM STA.11+30+/- TO -Y8- STA.19+95+/- .

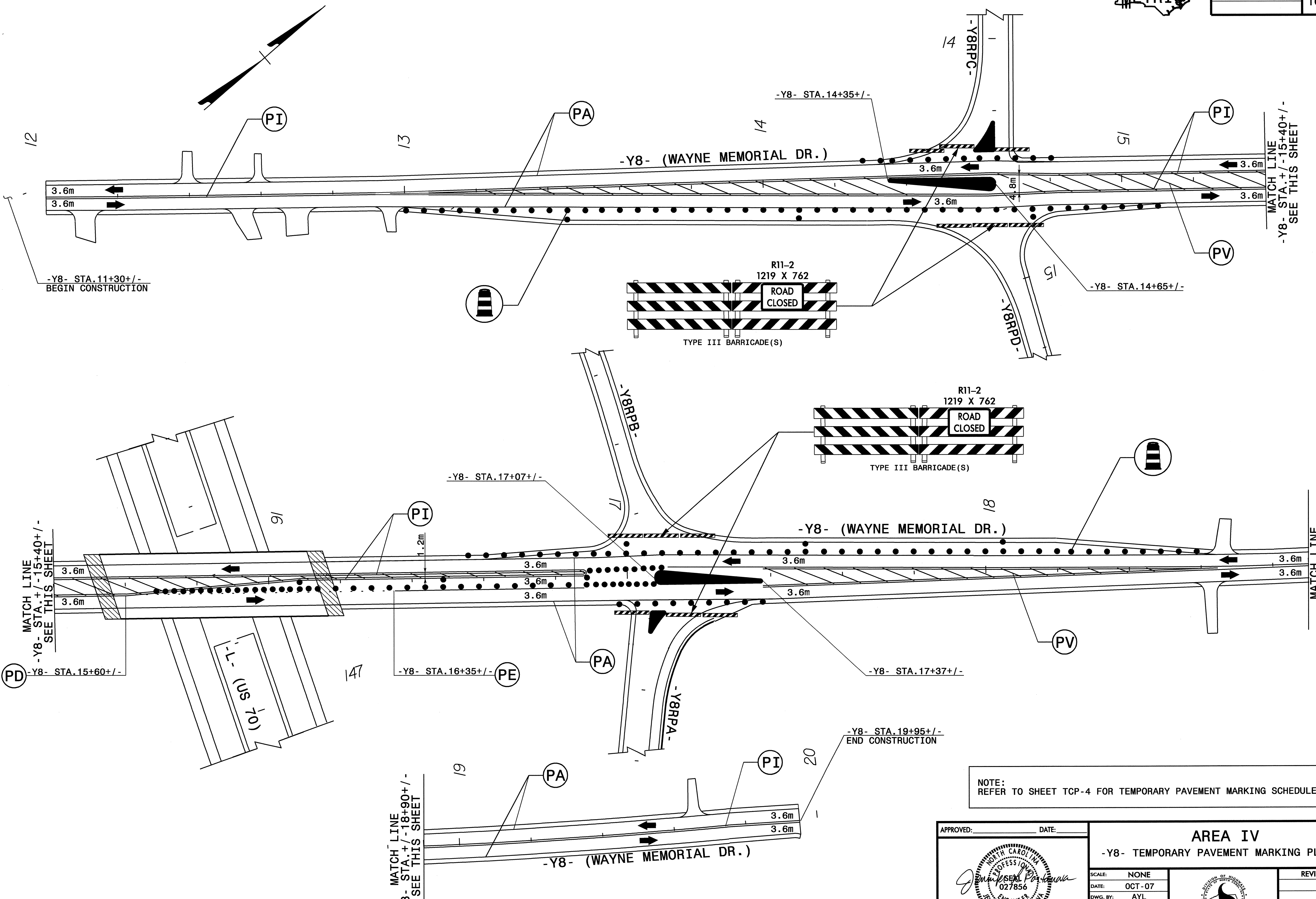
- USE RED AND WHITE STRIPES FOR PERMANENT BARRICADES TO CLOSE -L-, -Y8RPA- & -Y8RPD- AS SHOWN ON SHEETS PM-18 THROUGH PM-20.

STEP 8:
AWAY FROM TRAFFIC, COMPLETE THE REMOVAL OF TEMPORARY DETOUR FROM -Y8DET- STA.10+80+/- TO -Y8DET- STA.16+80+/- .

STEP 9:
REFER TO AREA I, STEP 5.

APPROVED: _____	DATE: _____	AREA IV PHASING	
		SCALE: NONE	REVISIONS
		DATE: OCT-07	
		DWG. BY: AYL	
		DESIGN BY: AYL	
		REVIEWED BY: JLP	
			

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NOTE:
REFER TO SHEET TCP-4 FOR TEMPORARY PAVEMENT MARKING SCHEDULE.

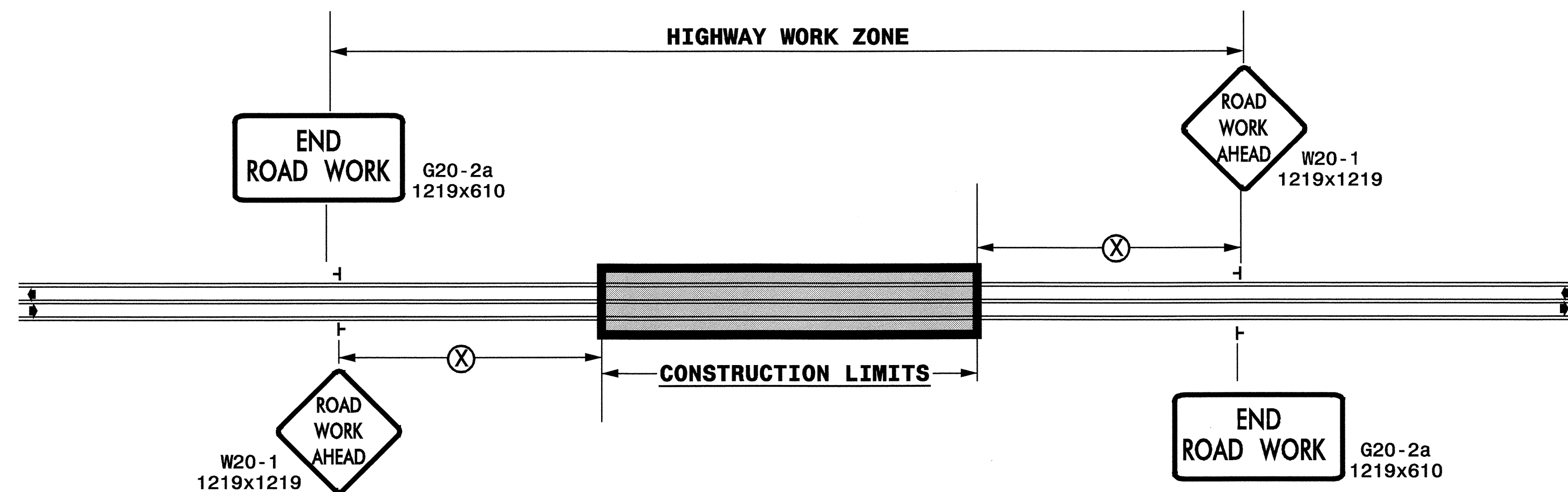
APPROVED: _____ DATE: _____

12/3/07

AREA IV	
-Y8- TEMPORARY PAVEMENT MARKING PLAN	
SCALE: NONE	REVISIONS
DATE: OCT-07	
DWG. BY: AYL	
DESIGN BY: AYL	
REVIEWED BY: JLP	

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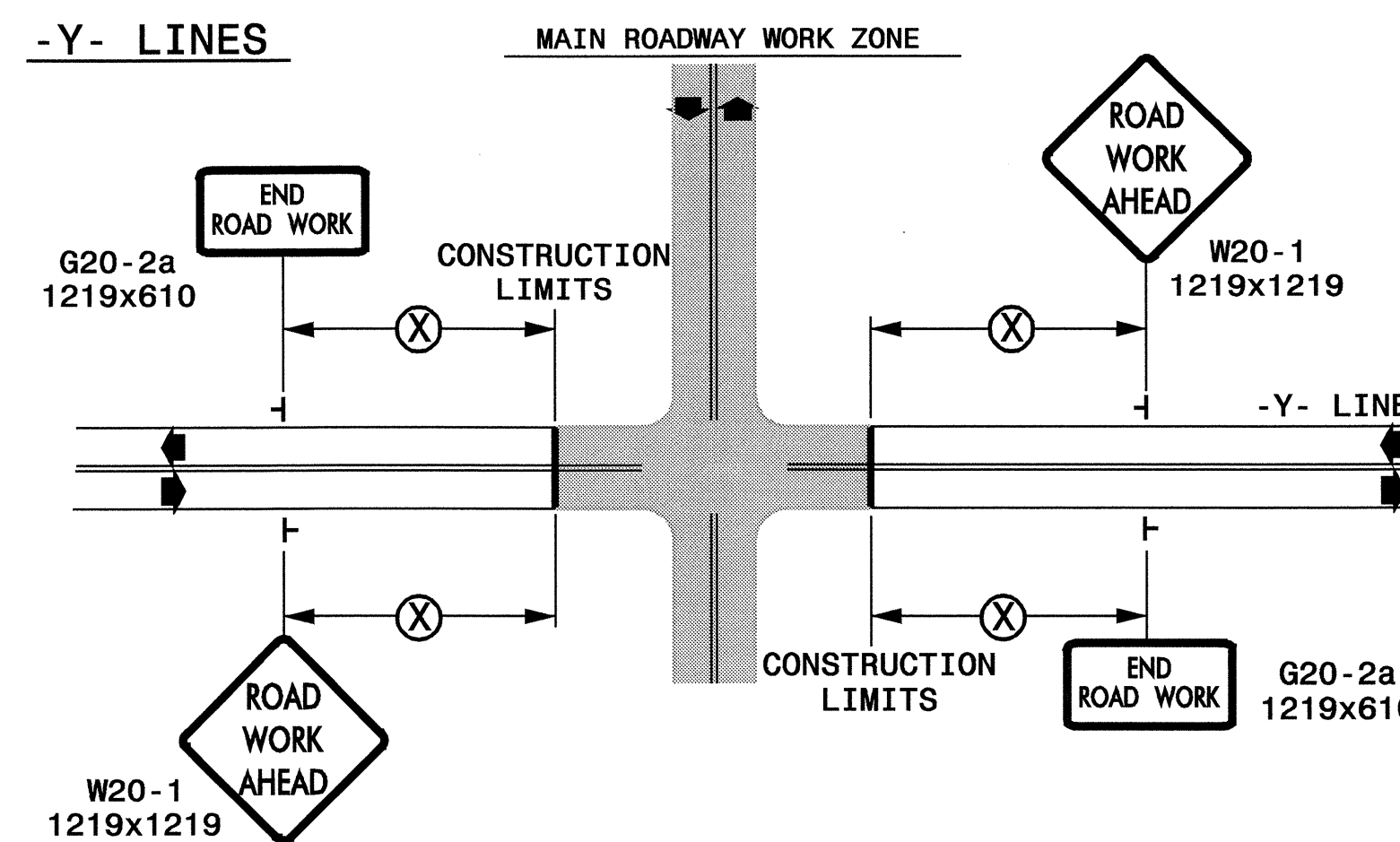
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	152m
≥ 55	305m

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 1.4Kg STEEL U-CHANNEL POST OR 90mm X 90mm WOOD POST FOR ALL WORK ZONE SIGNS. 1.4Kg 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 1.4Kg STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 1.4Kg 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

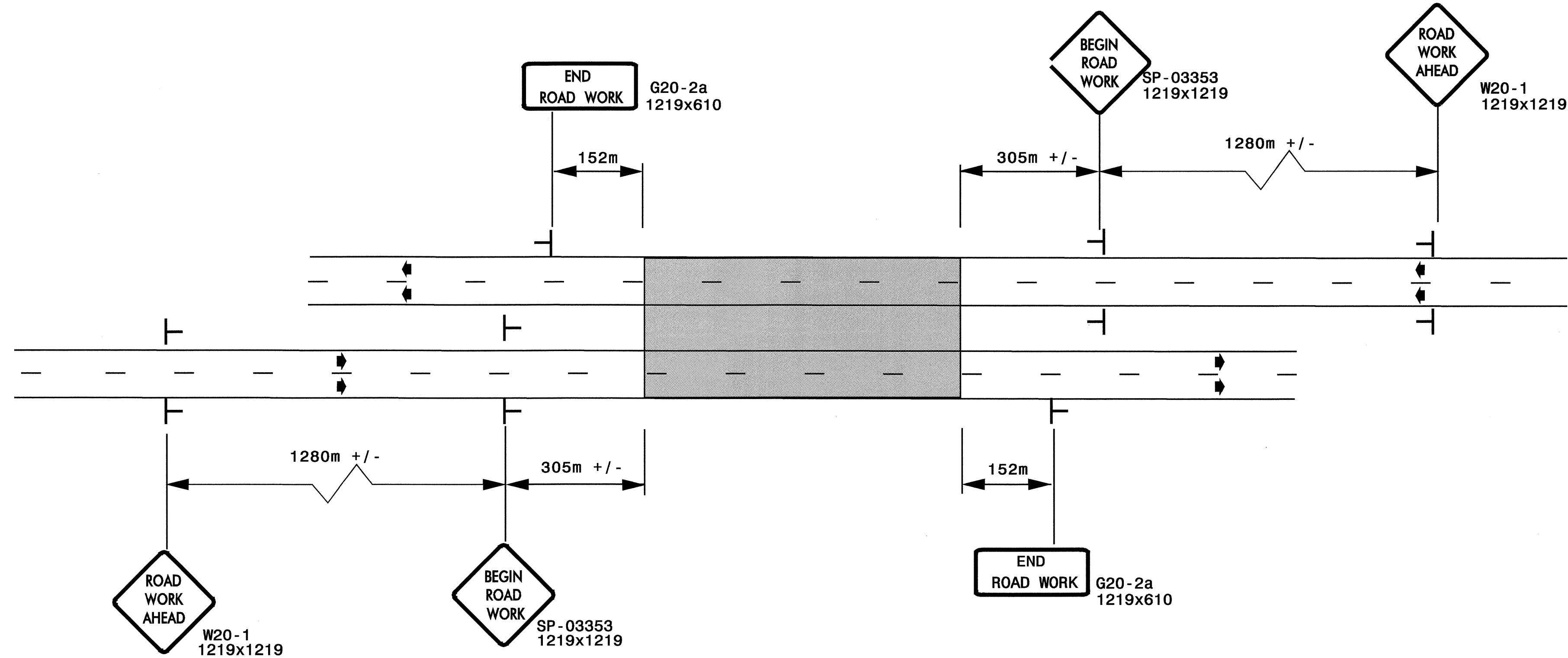
APPROVED: _____ DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
	SCALE: NONE	REVISIONS
	DATE: NOV - 07	7-98 10/01
	DWG. BY: AYL	10-98 03/04
	DESIGN BY: AYL	01/01 11/04
REVIEWED BY: JLP	CADD FILE	

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 jlyuiml AT WZ1237440

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

PROJ. REFERENCE NO. R-2554BA	SHEET NO. TCP-30
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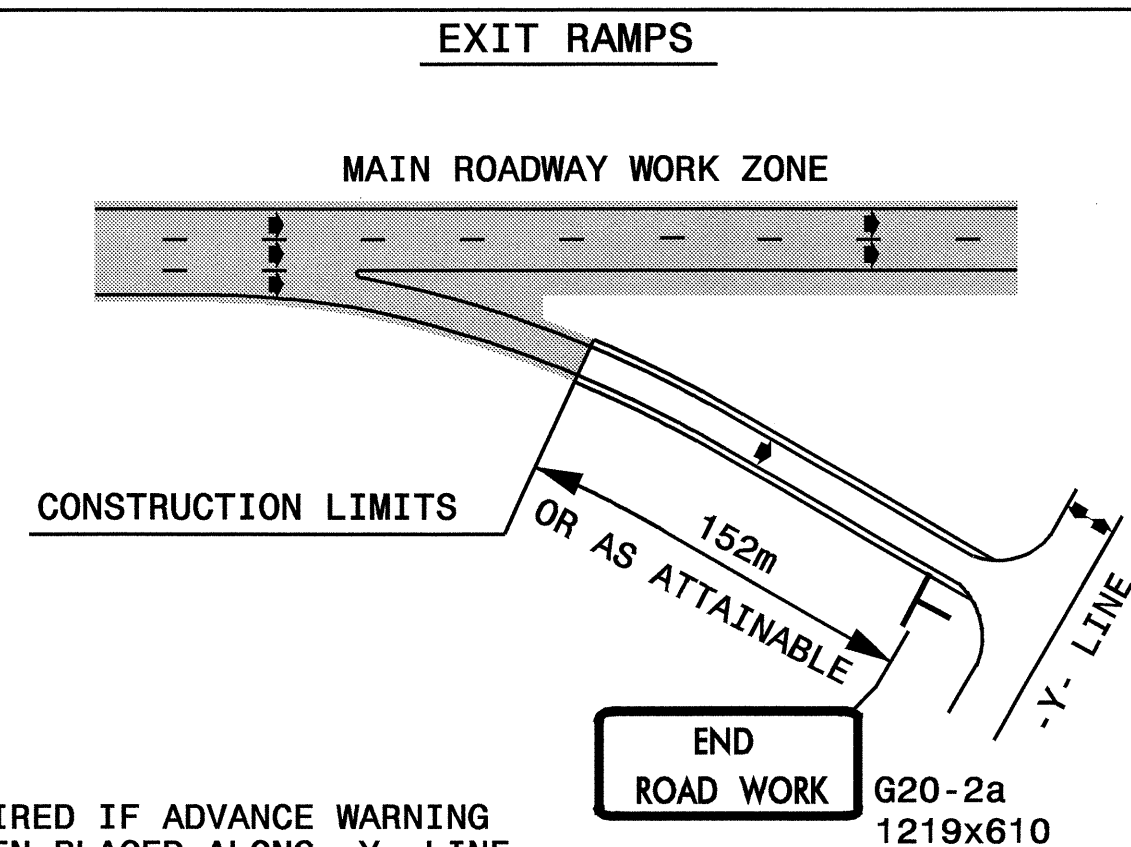
DETAIL A



LEGEND	
	STATIONARY SIGN
▶	DIRECTION OF TRAFFIC FLOW

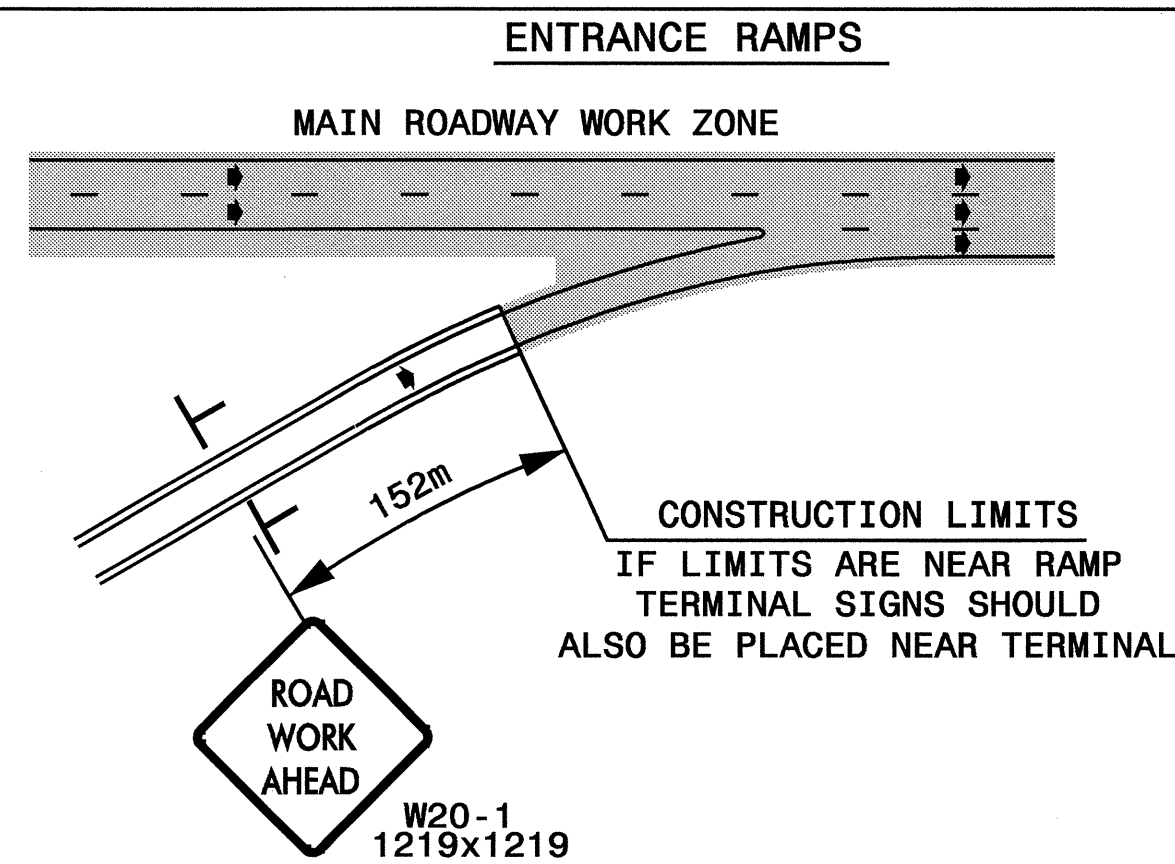
* USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

DETAIL B



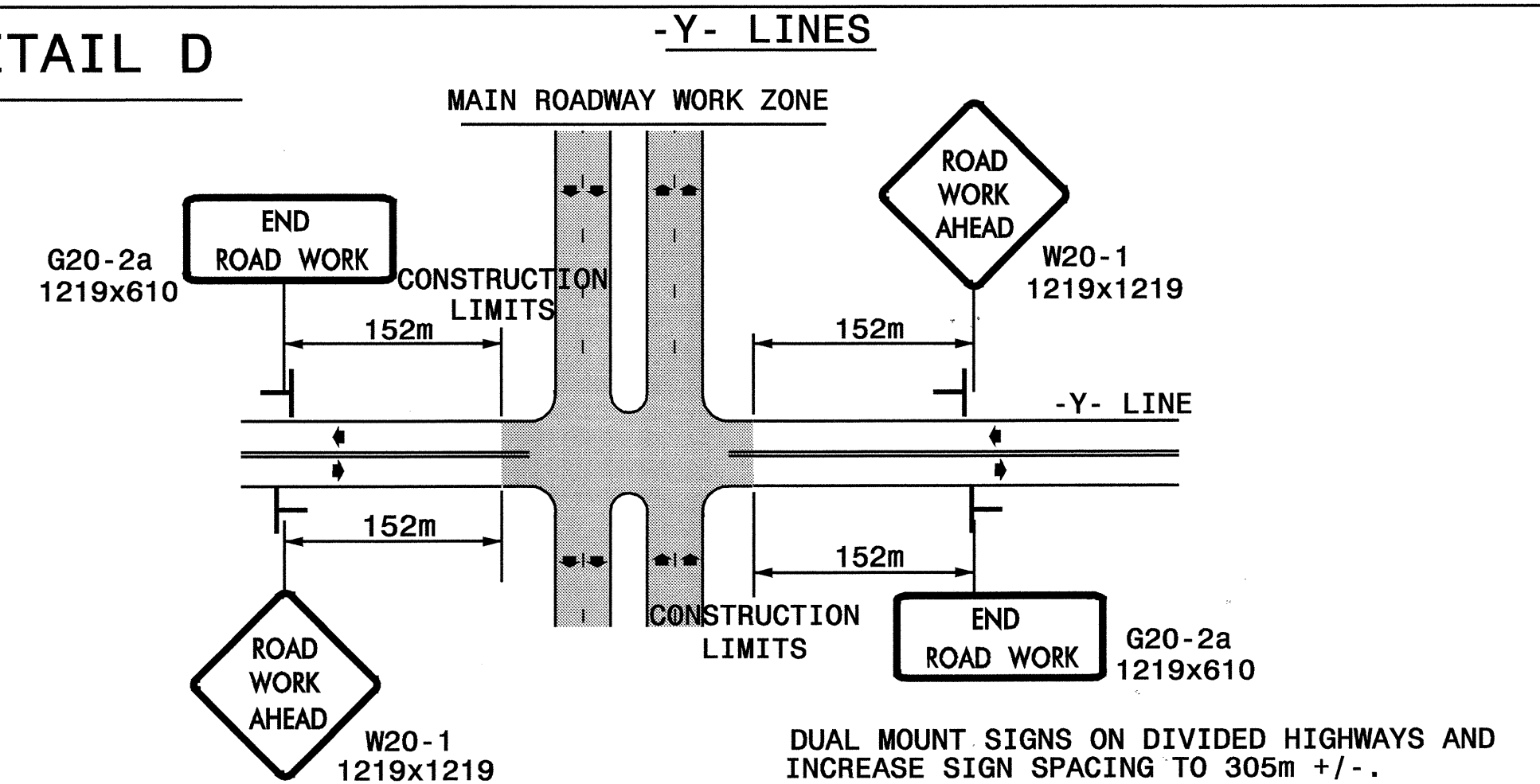
NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

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 305m +/-.

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 1.4Kg STEEL U-CHANNEL POST OR 90mm X 90mm WOOD POST FOR ALL WORK ZONE SIGNS. 1.4Kg 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 1.4Kg STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 1.4Kg 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: _____	ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)								
	SCALE: NONE								
	DATE: 8/03								
	DWG. BY: JI								
	DESIGN BY: JI								
REVIEWED BY: _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">REVISIONS</th> </tr> <tr> <td style="width: 50%;">03/04</td> <td style="width: 50%;"></td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS		03/04					
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