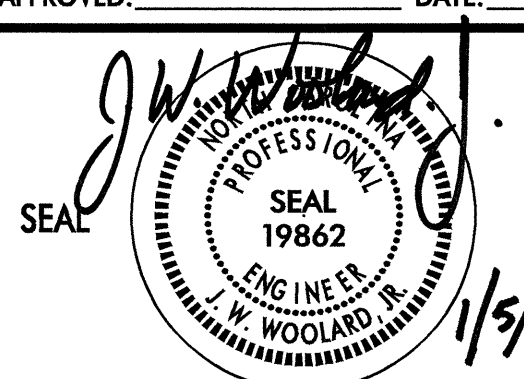
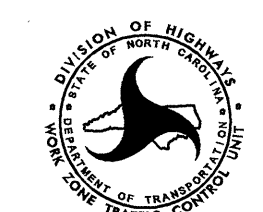




## TEMPORARY PAVEMENT MARKING SCHEDULE

| SYMBOL  | DESCRIPTION                |
|---|----------------------------|
| TEMPORARY PAVEMENT MARKINGS                       |                            |
| PAINT (24")                                       |                            |
| P4  | WHITE STOPBAR (2X)         |
| P5  | WHITE CROSSWALK LINE (2X)  |
| PAINT (4")  |                            |
| PA  | WHITE EDGELINE (2X)        |
| PB  | YELLOW EDGELINE (2X)       |
| PC  | 10 FT. WHITE SKIP (2X)     |
| PD  | 2 FT. WHITE MINISKIP (2X)  |
| PE  | WHITE SOLID LANE LINE (2X) |
| PG  | 2 FT. YELLOW MINISKIP (1X) |
| PH  | YELLOW SINGLE CENTER (2X)  |
| PI  | YELLOW DOUBLE CENTER (2X)  |
| PAINT (8")  |                            |
| PR  | WHITE GORELINE (2X)        |
| PV  | YELLOW DIAGONAL (2X)       |
| PAINT MARKING CHARACTERS                          |                            |
| QI  | ALPHANUMERIC CHAR. (2X)    |
| PAINTMARKING SYMBOLS                              |                            |
| QA  | LEFT TURN ARROW (2X)       |
| QB  | RIGHT TURN ARROW (2X)      |
| QC  | STRAIGHT ARROW (2X)        |
| QD  | COMBO.STRAIGHT/LEFT (2X)   |
| QE  | COMBO.STRAIGHT/RIGHT (2X)  |
| QF  | COMBO.LEFT/RIGHT (2X)      |
| COLD APPLIED PLASTIC (24") Type4 - Removable Tape |                            |
| C5  | WHITE STOPBAR              |
| COLD APPLIED PLASTIC (4") Type4 - Removable Tape  |                            |
| CI  | YELLOW DOUBLE CENTER       |
| MARKERS   |                            |
| TEMPORARY RAISED PAVEMENT MARKERS                 |                            |
| MH  | YELLOW & YELLOW            |
| MI  | CRYSTAL & RED              |

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| APPROVED: _____ DATE: _____<br>   | <h3>TEMPORARY PAVEMENT MARKING SCHEDULE</h3> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> | REVISIONS    |                |                  |   |   |           |  |  |  |  |
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## GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

### TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

| ROAD NAME           | DAY AND TIME RESTRICTIONS   |
|---------------------|---|
| 1. -L-              | MONDAY THRU FRIDAY 6:00 A.M. TO 8:30 A.M.<br>3:00 P.M. TO 7:00 P.M. |
| 2. I-95 BUS/ US 301 | MONDAY THRU FRIDAY 6:00 A.M. TO 8:30 A.M.<br>4:30 P.M. TO 7:00 P.M. |

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

| ROAD NAME           | DAY AND TIME RESTRICTIONS   |
|---------------------|---|
| 1. I-95 BUS/ US 301 | MONDAY THRU FRIDAY 6:00 A.M. TO 8:30 A.M.<br>4:30 P.M. TO 7:00 P.M. |

### HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY AFTER NEW YEAR'S.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- FOR ANY EVENT OCCURRING AT FAYETTEVILLE CONVENTION CENTER BETWEEN 3 HOURS BEFORE THE START OF AND 3 HOURS AFTER THE END OF THE EVENT.
- FOR ANY SPORTING EVENT OCCURRING AT SOUTHVIEW SENIOR HIGH SCHOOL BETWEEN 1 HOUR BEFORE THE START OF AND 1 HOUR AFTER THE END OF THE EVENT.

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR OTHERWISE DIRECTED BY THE ENGINEER.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

G) DO NOT INSTALL MORE THAN 1 MILE OF LANE CLOSURE ON -L- (SR 1363) AND -Y8- (US 95 BUS/ US 301) MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

H) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON -L- (SR 1363) AND -Y8- (US 95 BUS/ US 301).

### PAVEMENT EDGE DROP OFF REQUIREMENTS

I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING \*UNEVEN LANES\* SIGNS (W8-11) AS SHOWN BELOW IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA:

| POSTED SPEED LIMIT | DISTANCE |
|--------------------|----------|
| 40 OR LESS         | 200 FT   |
| 45 - 50            | 350 FT   |
| 55                 | 500 FT   |

### TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

### SIGNING

L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

M) PROVIDE PERMANENT SIGNING.

N) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS AND PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

O) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION AND COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

Q) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) AS SHOWN BELOW IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER:

| POSTED SPEED LIMIT | DISTANCE |
|--------------------|----------|
| 40 OR LESS         | 200 FT   |
| 45 - 50            | 350 FT   |
| 55                 | 500 FT   |

### TRAFFIC BARRIER

R) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

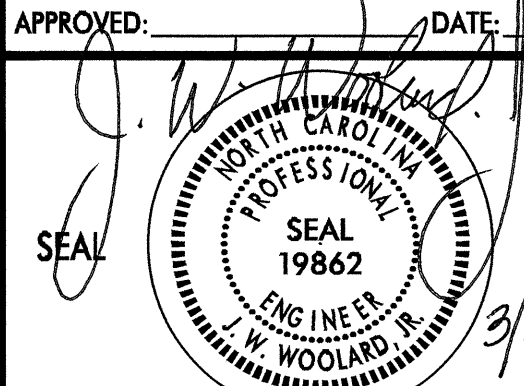
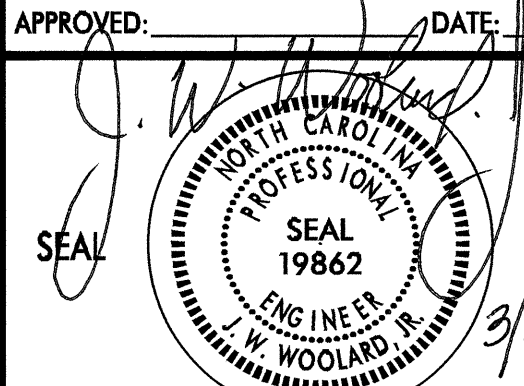
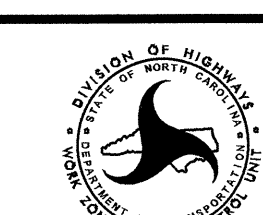
S) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS:

| POSTED SPEED LIMIT | MINIMUM OFFSET |
|--------------------|----------------|
| 40 OR LESS         | 15 FT          |
| 45 - 50            | 20 FT          |
| 55                 | 25 FT          |
| 60 MPH or HIGHER   | 30 FT          |

### TRAFFIC CONTROL DEVICES

T) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

| APPROVED:  | DATE: 3/2/10  | <b>PROJECT NOTES</b>  |           |  |  |  |  |  |
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|            | SCALE: NONE   |  |           |  |  |  |  |  |
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## GENERAL NOTES

- U) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- V) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.
- PAVEMENT MARKINGS AND MARKERS**
- W) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | ROAD NAME                      | MARKING       | MARKER           |
|--------------------------------|---------------|------------------|
| 1. -L- (SR 1363 ELK RD)        | THERMOPLASTIC | PERMANENT RAISED |
| 2. ALL -Y- LINES (EXCEPT -Y8-) | THERMOPLASTIC | PERMANENT RAISED |
| 3. -Y8- (US 301)               | THERMOPLASTIC | SNOWPLOWABLE     |
- X) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME               | MARKING | MARKER           |
|-------------------------|---------|------------------|
| 1. -L- (SR 1363 ELK RD) | PAINT   | TEMPORARY RAISED |
| 2. ALL -Y- LINES        | PAINT   | TEMPORARY RAISED |
- Y) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- Z) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- AA) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- BB) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION.
- TEMPORARY / FINAL SIGNALS**
- CC) NOTIFY THE ENGINEER TWO (2) MONTHS BEFORE A TRAFFIC SIGNAL INSTALLATION BY OTHERS IS REQUIRED.
- DD) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.
- MISCELLANEOUS**
- EE) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.
- FF) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AS SHOWN BELOW RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS:
- | POSTED SPEED LIMIT | DISTANCE |
|--------------------|----------|
| 40 OR LESS         | 200 FT   |
| 45 - 50            | 350 FT   |
| 55                 | 500 FT   |
- GG) ALL WHEEL CHAIR RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- HH) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

NOTE: THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE WZCU ON SEPTEMBER 26, 2008, AND SEALED BY A PROFESSIONAL ENGINEER, THEN T. ZAN, LICENSE #30943.

NOTE: ALL DIMENSIONS AND STATIONS +/-

## TEMPORARY SHORING DATA

**Temporary Shoring No. ① (SEE SHEET TCP-17)**

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING PROJECT SPECIAL PROVISION.

DO NOT USE STANDARD TEMPORARY SHORING FROM STATION 45+00 +/- -L- TO STATION 47+00 +/- -L-, 6 FT. LEFT.

DO NOT USE A TEMPORARY MSE WALL FROM STATION 45+00 +/- -L- TO STATION 47+00 +/- -L-, 6 FT. LEFT.

TEMPORARY SHORING IS REQUIRED FOR THE CULVERT INSTALLATION FROM STATION 45+00 +/- -L- TO STATION 47+00 +/- -L-, 6 FT. LEFT. SEE TEMPORARY SHORING SPECIAL PROVISION.

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 45+00 +/- -L- TO STATION 47+00 +/- -L-, 6 FT. LEFT, DESIGN SHORING FOR THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:  
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE,  $\gamma = 120$  lb/ft<sup>3</sup>  
 UNIT WEIGHT OF SOIL BELOW WATER TABLE,  $\gamma' = 60$  lb/ft<sup>3</sup>  
 FRICTION ANGLE,  $\phi = 30$  DEGREES  
 COHESION,  $c = 0$  PSF

IT MAY BE PREFERRED OR NECESSARY TO ANCHOR TEMPORARY SHORING FROM STATION 45+60 +/- -L- TO 46+60 +/- -L-, 6 FT. LEFT. FOR ANCHORED TEMPORARY SHORING, SEE ANCHORED TEMPORARY SHORING SPECIAL PROVISION OR FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS SPECIAL PROVISION.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 45+00 +/- -L- TO STATION 47+00 +/- -L-, 6 FT. LEFT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

**Temporary Shoring No. ③ (SEE SHEET TCP-18)**

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING PROJECT SPECIAL PROVISION.

DO NOT USE STANDARD TEMPORARY SHORING FROM STATION 60+33 +/- -L- TO STATION 62+33 +/- -L-, 5 FT. LEFT.

DO NOT USE A TEMPORARY MSE WALL FROM STATION 60+33 +/- -L- TO STATION 62+33 +/- -L-, 5 FT. LEFT.

TEMPORARY SHORING IS REQUIRED FOR THE PIPE INSTALLATION FROM STATION 60+33 +/- -L- TO STATION 62+33 +/- -L-, 5 FT. LEFT. SEE TEMPORARY SHORING SPECIAL PROVISION.

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 60+33 +/- -L- TO STATION 62+33 +/- -L-, 5 FT. LEFT, DESIGN SHORING FOR THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:  
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE,  $\gamma = 120$  lb/ft<sup>3</sup>  
 UNIT WEIGHT OF SOIL BELOW WATER TABLE,  $\gamma' = 60$  lb/ft<sup>3</sup>  
 FRICTION ANGLE,  $\phi = 30$  DEGREES  
 COHESION,  $c = 0$  PSF

IT MAY BE PREFERRED OR NECESSARY TO ANCHOR TEMPORARY SHORING FROM STATION 60+80 +/- -L- TO 61+80 +/- -L-, 5 FT. LEFT. FOR ANCHORED TEMPORARY SHORING, SEE ANCHORED TEMPORARY SHORING SPECIAL PROVISION OR FOR TEMPORARY SOIL NAIL WALLS, SEE TEMPORARY SOIL NAIL WALLS SPECIAL PROVISION.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 60+33 +/- -L- TO STATION 62+33 +/- -L-, 5 FT. LEFT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

**Temporary Shoring No. ② (SEE SHEET TCP-17)**

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING PROJECT SPECIAL PROVISION.

DO NOT USE STANDARD TEMPORARY SHORING FROM STATION 45+00 +/- -L- TO STATION 47+00 +/- -L-, 1 FT. RIGHT.

USE A TEMPORARY MSE WALL FROM STATION 45+00 +/- -L- TO STATION 47+00 +/- -L-, 1 FT. RIGHT.

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 45+00 +/- -L- TO STATION 47+00 +/- -L-, 6 FT. LEFT, DESIGN SHORING FOR THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:  
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE,  $\gamma = 120$  lb/ft<sup>3</sup>  
 UNIT WEIGHT OF SOIL BELOW WATER TABLE,  $\gamma' = 60$  lb/ft<sup>3</sup>  
 FRICTION ANGLE,  $\phi = 30$  DEGREES  
 COHESION,  $c = 0$  PSF

TEMPORARY SHORING IS REQUIRED FOR THE CULVERT INSTALLATION FROM STATION 45+00 +/- -L- TO STATION 47+00 +/- -L-, 1 FT. RIGHT. SEE TEMPORARY SHORING SPECIAL PROVISION.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 45+00 +/- -L- TO STATION 47+00 +/- -L-, 1 FT. RIGHT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

**Temporary Shoring No. ④ (SEE SHEET TCP-18)**

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING PROJECT SPECIAL PROVISION.

DO NOT USE STANDARD TEMPORARY SHORING FROM STATION 60+33 +/- -L- TO STATION 62+33 +/- -L-.

USE A TEMPORARY MSE WALL FROM STATION 45+00 +/- -L- TO STATION 60+33 +/- -L- TO STATION 62+33 +/- -L-.

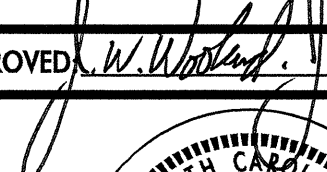
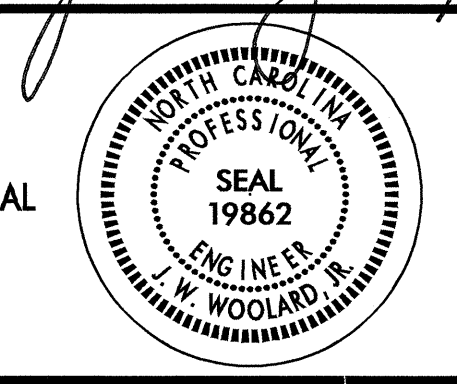
WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 60+33 +/- -L- TO STATION 62+33 +/- -L-, DESIGN SHORING FOR THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:  
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE,  $\gamma = 120$  lb/ft<sup>3</sup>  
 UNIT WEIGHT OF SOIL BELOW WATER TABLE,  $\gamma' = 60$  lb/ft<sup>3</sup>  
 FRICTION ANGLE,  $\phi = 30$  DEGREES  
 COHESION,  $c = 0$  PSF

TEMPORARY SHORING IS REQUIRED FOR THE PIPE INSTALLATION FROM STATION 60+33 +/- -L- TO STATION 62+33 +/- -L-. SEE TEMPORARY SHORING SPECIAL PROVISION.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

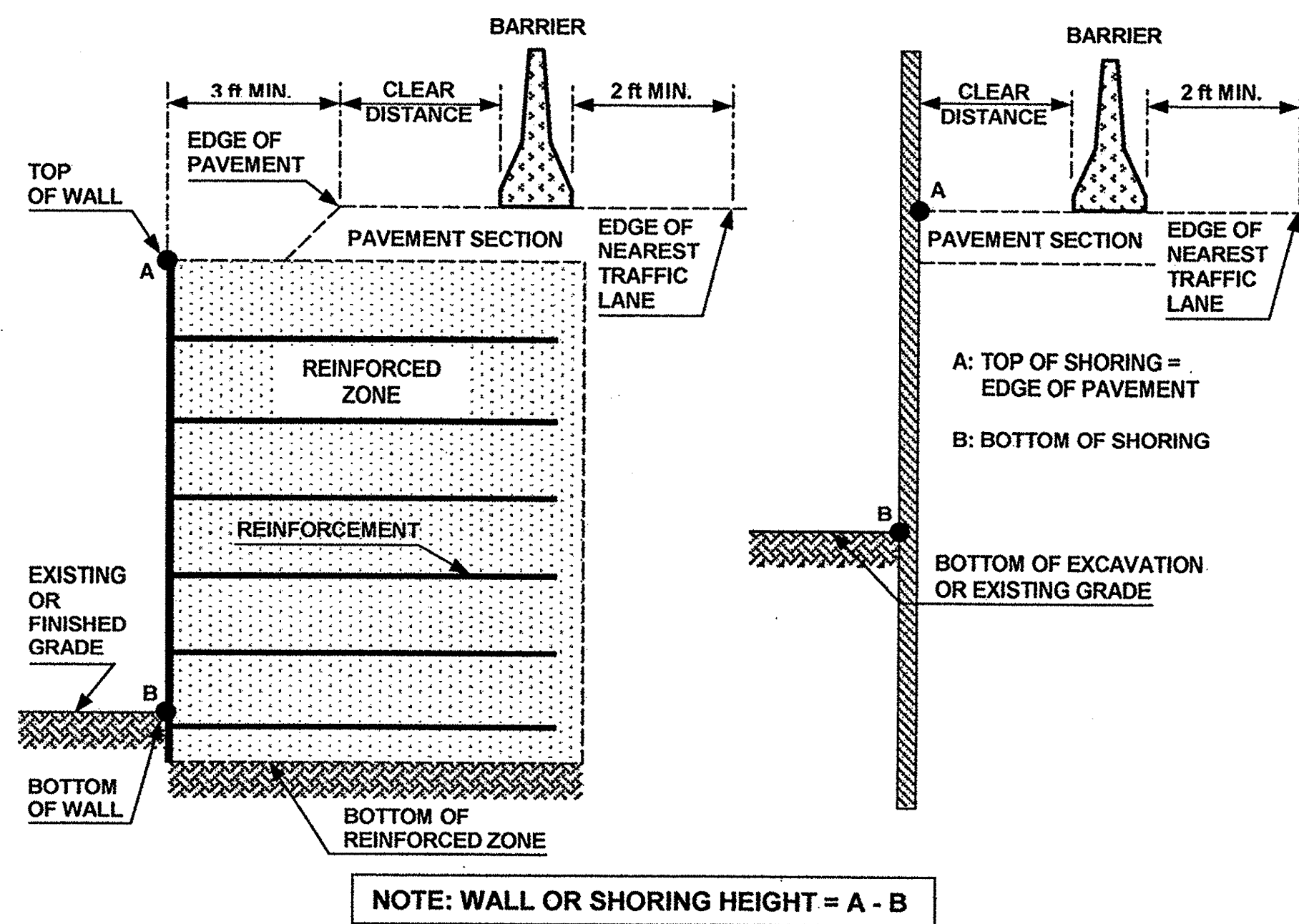
LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 62+33 +/- -L- TO STATION 62+33 +/- -L-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

|   |   |   |        |      |       |       |          |     |            |     |              |     |
|---|---|---|--------|------|-------|-------|----------|-----|------------|-----|--------------|-----|
| APPROVED:  DATE: 7/1/09<br> | <b>PROJECT NOTES AND<br/>TEMPORARY SHORING DATA</b> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE:</td> <td>NONE</td> </tr> <tr> <td>DATE:</td> <td>12/08</td> </tr> <tr> <td>DWG. BY:</td> <td>DAH</td> </tr> <tr> <td>DESIGN BY:</td> <td>DAH</td> </tr> <tr> <td>REVIEWED BY:</td> <td>JWW</td> </tr> </table> | SCALE: | NONE | DATE: | 12/08 | DWG. BY: | DAH | DESIGN BY: | DAH | REVIEWED BY: | JWW |
| SCALE:  | NONE  |   |        |      |       |       |          |     |            |     |              |     |
| DATE:   | 12/08   |   |        |      |       |       |          |     |            |     |              |     |
| DWG. BY:  | DAH   |   |        |      |       |       |          |     |            |     |              |     |
| DESIGN BY:  | DAH   |   |        |      |       |       |          |     |            |     |              |     |
| REVIEWED BY:  | JWW   |   |        |      |       |       |          |     |            |     |              |     |

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 anaves AT WZTC244738





**FIGURE A**

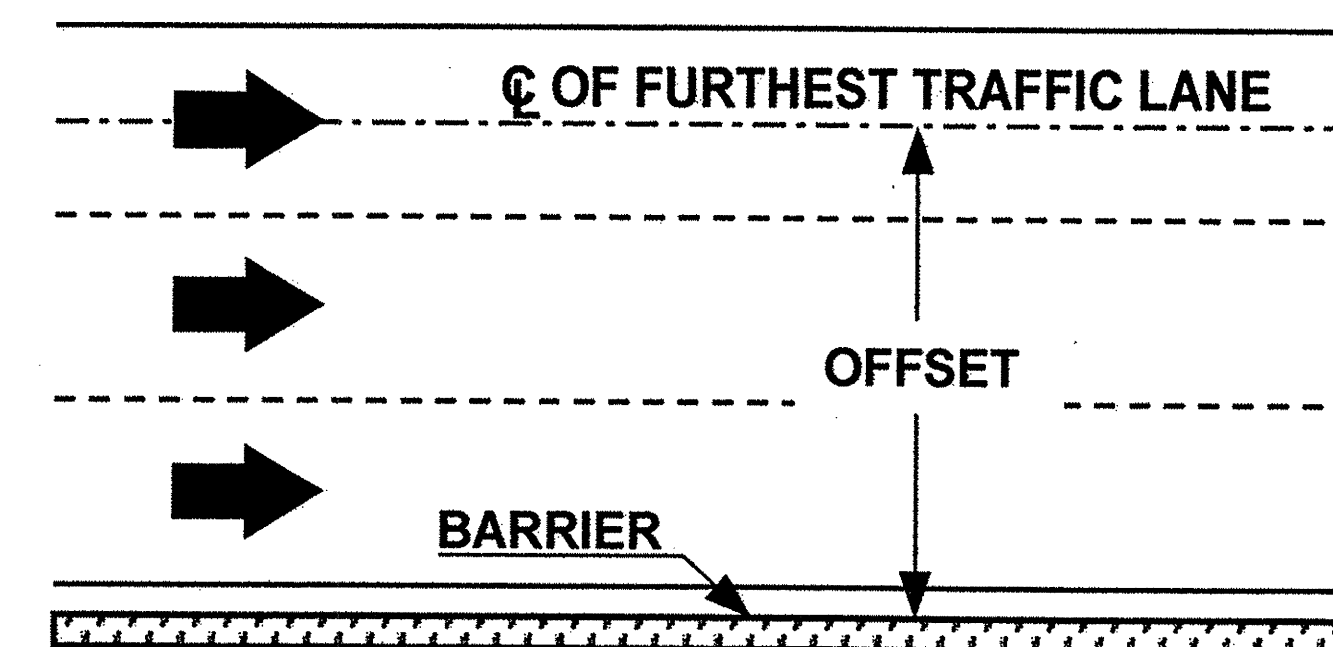
**NOTES**

- REFER TO THE TRAFFIC CONTROL PLANS FOR SHORING LOCATIONS AND SOIL PARAMETERS.
- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR MORE INFORMATION ABOUT TEMPORARY SHORING, MEASUREMENT AND PAYMENT.
- PROVIDE PORTABLE CONCRETE BARRIER TO PROTECT TEMPORARY SHORING IF SHORING IS LOCATED WITHIN THE CLEAR ZONE AS DEFINED IN THE AASHTO ROADSIDE DESIGN GUIDE.
- BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED PCB, ANCHORED PCB OR AN OREGON BARRIER FROM THE TABLE SHOWN IN FIGURE B. FOR TRAFFIC LANES AND PORTABLE CONCRETE BARRIER LOCATED ABOVE AND BEHIND TEMPORARY SHORING, THE FOLLOWING ARE DEFINED AS:
  - CLEAR DISTANCE - HORIZONTAL DISTANCE FROM THE BACK FACE OF THE BARRIER TO THE EDGE OF PAVEMENT FOR TEMPORARY MSE WALL OR TO THE FACE OF NON-ANCHORED TEMPORARY SHORING AS SHOWN IN FIGURE A.
  - OFFSET - HORIZONTAL DISTANCE FROM THE FRONT FACE OF THE BARRIER TO CENTERLINE OF THE FURTHEST TRAFFIC LANE AS SHOWN IN FIGURE B FOR 3 TRAFFIC LANES.
- AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET AN UNANCHORED PCB AGAINST THE TRAFFIC SIDE OF THE SHORING AND DESIGN SHORING FOR TRAFFIC IMPACT OR USE THE "SURCHARGE CASE WITH TRAFFIC IMPACT" FOR THE STANDARD TEMPORARY SHORING.
- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- USE OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH DETAIL DRAWING AND SPECIAL PROVISION OBTAINED FROM: [HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/WZTC/DESRES/ENGLISH/DESRESENG.HTML](http://www.ncdot.org/DOH/PRECONSTRUCT/WZTC/DESRES/ENGLISH/DESRESENG.HTML)
- UNLESS NOTED OTHERWISE ON THE PLANS, SET PORTABLE CONCRETE BARRIER WITH A MINIMUM DISTANCE OF 2 FT BETWEEN THE FRONT FACE OF THE BARRIER AND THE EDGE OF THE NEAREST TRAFFIC LANE AS SHOWN IN FIGURE A.
- FOR PORTABLE CONCRETE BARRIER ABOVE AND BEHIND TEMPORARY MSE WALLS, PROVIDE A MINIMUM DISTANCE OF 3 FT BETWEEN THE EDGE OF PAVEMENT AND THE WALL FACE AS SHOWN IN FIGURE A. IF THESE MINIMUM REQUIRED DISTANCES ARE NOT AVAILABLE, CONTACT THE ENGINEER.
- TABLE SHOWN IN FIGURE B IS BASED ON NCDOT RESEARCH PROJECT NO. 2005-010 WITH VEHICLE TYPE USED FOR NCHRP 350 CRASH TESTS. BARRIER DEFLECTIONS AND RESULTING MINIMUM REQUIRED CLEAR DISTANCES MIGHT VARY SIGNIFICANTLY FOR LARGER HEAVIER VEHICLES, RUNS OF BARRIER LESS THAN 200' IN LENGTH AND WET OR DRY PAVEMENT.

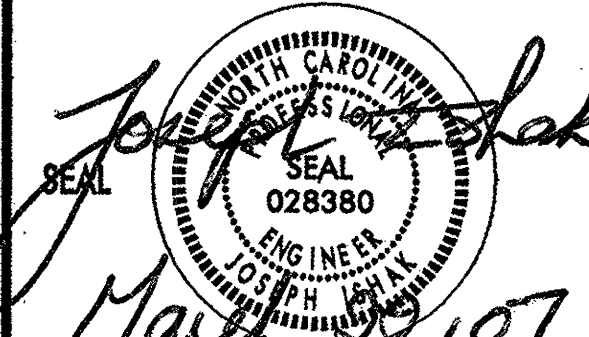

**MINIMUM REQUIRED CLEAR DISTANCE, inches**

| Barrier Type                   | Pavement Type                              | Offset *<br>ft | Design Speed, mph        |       |       |       |       |       |
|--------------------------------|--|----------------|--------------------------|-------|-------|-------|-------|-------|
|                                |  |                | <30                      | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 |
| Unanchored PCB                 | Asphalt                                    | <8             | 24                       | 26    | 29    | 32    | 36    | 40    |
|                                |  | 8-14           | 26                       | 28    | 31    | 35    | 38    | 42    |
|                                |  | 14-20          | 27                       | 29    | 34    | 36    | 39    | 43    |
|                                |  | 20-26          | 28                       | 31    | 35    | 38    | 40    | 44    |
|                                |  | 26-32          | 29                       | 32    | 36    | 39    | 42    | 45    |
|                                |  | 32-38          | 30                       | 34    | 38    | 41    | 43    | 46    |
|                                |  | 38-44          | 31                       | 34    | 41    | 43    | 45    | 48    |
|                                |  | 44-50          | 31                       | 35    | 41    | 43    | 46    | 49    |
|                                |  | 50-56          | 32                       | 36    | 42    | 44    | 47    | 50    |
|                                | >56  | 32             | 36                       | 42    | 45    | 47    | 51    |       |
|                                | Concrete                                   | <8             | 17                       | 18    | 21    | 22    | 25    | 26    |
|                                |  | 8-14           | 19                       | 20    | 23    | 25    | 26    | 29    |
|                                |  | 14-20          | 22                       | 22    | 24    | 26    | 28    | 31    |
|                                |  | 20-26          | 23                       | 24    | 26    | 27    | 30    | 34    |
|                                |  | 26-32          | 24                       | 25    | 27    | 28    | 32    | 35    |
|                                |  | 32-38          | 24                       | 26    | 27    | 30    | 33    | 36    |
|                                |  | 38-44          | 25                       | 26    | 28    | 30    | 34    | 37    |
|                                |  | 44-50          | 26                       | 26    | 28    | 32    | 35    | 37    |
| 50-56                          |  | 26             | 26                       | 28    | 32    | 35    | 38    |       |
| >56                            | 26   | 27             | 29                       | 32    | 36    | 38    |       |       |
| Anchored PCB or Oregon Barrier | Asphalt                                    | All Offsets    | 24 for All Design Speeds |       |       |       |       |       |
| Anchored PCB or Oregon Barrier | Concrete (including bridge approach slabs) | All Offsets    | 12 for All Design Speeds |       |       |       |       |       |

\* See Figure Below



**FIGURE B**

|   |   |   |
|---|---|---|
| APPROVED: _____ DATE: _____   | <b>PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS</b> |   |
|  | SCALE: NONE   |  |
|   | DATE: 3/07  |   |
|   | DESIGN BY: JI   |   |
|   | REVIEWED BY: JI   |   |
|   | REVISIONS   |   |
|   |   |   |
|   |   |   |



## PHASE I

- STEP 1) INSTALL ADVANCE WORK ZONE SIGNING ON -L- (SR 1363, ELK RD), -Y-, -Y1- (SR 3700 ALEXWOOD DR), -Y2- (BANKS CT), -Y3- (FERNWOOD DR), -Y4- (DUNROBIN DR), -Y5- (SR 4009, BENTCREEK DR), -Y6- (FALCONBRIDGE RD), SR 1131 (CAMERON RD), BRAMBLEGATE RD, AND ALL EXISTING DRIVES ACCESSING THE MIDDLE SCHOOL AND HIGH SCHOOL (REFER TO TCP-35 FOR SIGN PLACEMENT).
- INSTALL AND COVER ADVANCE WORK ZONE SIGNING ON BEGIN AND END PROJECT LIMITS ON -Y7- (SR 1131, CAMERON RD REALIGNMENT), -Y7CONN1-, -Y7CONN2-, AND -Y8- (I-95 BUS/US 301).
- STEP 2) USING ROADWAY STANDARD DRAWING (RSD) 1101.02, SHEETS 1 AND 3 OF 9 INSTALL TEMPORARY PEDESTRIAN SIGNS AND TEMPORARY CROSSWALKS AS SHOWN ON TCP-5 THRU 7.

NOTE: PHASE 1, STEPS 3, 4, 4A, AND 5 MAY BE PERFORMED CONCURRENTLY.

- STEP 3) USING RSD 1101.02, SHEET 1 OF 9, CONSTRUCT THE FOLLOWING OF THE RIGHT SIDE OF -L- UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT (SEE TCP-5 THRU 7):
- STA. 7+76 -L- TO STA. 13+80 -L-
  - STA. 14+74 -L- TO STA. 21+53 -L-
  - STA. 22+11 -L- TO STA. 27+93 -L-
  - STA. 28+66 -L- TO STA. 31+23 -L-

BEGIN THE INSTALLATION OF ALL TEMPORARY AND FINAL SIGNALS.

THE CONTRACTOR MUST COMPLETE PHASE 1, STEPS 4 AND 4A AS LISTED IN THE SPECIAL PROVISION (SEE SPECIAL PROVISIONS FOR LIQUIDATED DAMAGES).

- STEP 4) INSTALL DRUMS AND REMOVE WATER FILLED BARRIER AS SHOWN ON TCP-8 THRU 10, AND USING RSD 1101.02, SHEET 1 OF 9, CONSTRUCT AND COMPLETE CONSTRUCTION OF THE FOLLOWING AREAS OF THE RIGHT SIDE OF -L- FROM STA. 6+36 -L- TO STA. 10+69 -Y2-, UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE, TEMPORARY MARKINGS, AND MARKERS (SEE TCP-8 THRU 10):
- STA. 7+76 -L- TO STA. 13+80 -L-
  - STA. 14+74 -L- TO STA. 21+53 -L-
  - STA. 22+11 -L- TO STA. 27+93 -L-
  - STA. 28+66 -L- TO STA. 10+69 -Y2-

INSTALL TYPE I BARRICADES AS SHOWN ON TCP-9 AND 10.

USING RSD 1101.02, SHEET 1 OF 9, CONSTRUCT -L-, WEDGING DOWN FROM STA. 28+70 -L- TO THE EXISTING EDGE AND ELEVATION OF EXISTING PAVEMENT ON -L- AT -Y2- (SEE TCP-10).

AWAY FROM TRAFFIC CONSTRUCT -DRIVE1-, -DRIVE1A-, AND -DRIVE2- UP TO AND INCLUDING THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS (PAINT), FINAL PAVEMENT MARKERS, AND OPEN FINAL PATTERN TO TRAFFIC (SEE TCP-8 THRU 10).

PHASE I, STEP 4A SHALL BE COMPLETED WITHIN ONE WEEKEND (SEE SPECIAL PROVISIONS FOR LIQUIDATED DAMAGES).

- STEP 4A) USING TCP-10A AND RSD 1101.03, SHEET 1 OF 9, DETOUR -L- TRAFFIC OFFSITE AND INSTALL THE 36" PIPE AT STA. 33+50 +/- -L-. RETURN TRAFFIC TO EXISTING PATTERN.
- STEP 5) USING RSD 1101.02, SHEET 1 OF 9 CONSTRUCT TEMPORARY PAVEMENT ON -L- AT -Y5- FROM STA. 43+47 -L- TO STA. 51+24 -L-, TEMPORARY PAVEMENT ON -L- AT -Y7- FROM STA. 59+00 -L- TO STA. 70+42 -L-, AND CONSTRUCT THE INTERSECTION OF -Y7- ON THE RIGHT SIDE OF -L- UP TO AND INCLUDING THE GRADING. (SEE TCP-11 AND 12).
- USING TYPE III BARRICADES, CLOSE BRAMBLEGATE RD AS NEEDED AND CONSTRUCT THE CUL-DE-SAC UP TO AND INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-12).

## PHASE II

NOTE: PRIOR TO INSTALLATION OF TEMPORARY SHORING IN PHASE II, STEP 1, INSTALLATION OF THE 8" DIAMETER BY-PASS WATER LINES FROM STA. 44+20 -L- TO STA. 47+70 -L- AND STA. 59+50 -L- TO STA. 63+40 -L- SHALL BE COMPLETED (SEE UTILITY PLANS).

- STEP 1) USING RSD 1101.02, SHEET 1 OF 9 INSTALL WATER FILLED BARRIER AS SHOWN ON TCP-14 THRU 17, INSTALL WEDGING TEMPORARY MARKINGS (PAINT), REMOVE CONFLICTING MARKINGS, AND SHIFT TRAFFIC ONTO TEMPORARY PATTERN ON RIGHT SIDE OF -L- (SEE TCP-13 THRU 19).
- USING RSD 1101.02, SHEET 1 OF 9 INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY SHORING AT CUT SECTIONS J-J' AND L-L' AS SHOWN ON TCP-17 AND 18.

## PHASING

- STEP 2) BEHIND BARRIER AND DRUMS CONSTRUCT THE LEFT SIDE OF -L- FROM STA. 10+00 -L- TO STA. 68+00 -L- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE. BEHIND SHORING CONSTRUCT STAGE 1 OF THE CULVERT AND THE 66" PIPE (SEE TCP-15 THRU 20).
- USING RSD 1101.02, SHEET 1 OF 9 CONSTRUCT -Y-, -Y1-, -Y3-, -Y5-, AND -DRIVE3- (MAINTAIN ACCESS TO DRIVEWAY AT ALL TIMES) UNDER TRAFFIC UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (OMIT MONOLITHIC ISLANDS ON -Y3- AND -Y5-) (SEE TCP-16, 17, & 21).
- USING RSD 1101.02, SHEET 1 OF 9 CONSTRUCT THE FOLLOWING UP TO THE EXISTING EDGE AND ELEVATION OF PAVEMENT (TCP-21 THRU 23):
- -Y7- FROM STA. 9+50 -Y7- TO STA. 14+05 -Y7-
  - -Y7REV- FROM STA. 34+75 -Y7REV- TO STA. 37+46 -Y7REV-
  - -Y7CONN1- FROM STA. 10+65 -Y7CONN1- TO STA. 12+98 -Y7CONN1-
  - -Y7CONN2- FROM STA. 10+68 -Y7CONN2- TO STA. 13+06 +/- -Y7REVCONN2-

USING RSD 1101.02, SHEET 3 OF 9, CLOSE THE MEDIAN LANES OF -Y8-, REMOVE MEDIAN CROSSOVER AT STA. 15+00 -Y8-, CONSTRUCT MEDIAN FROM STA. 11+65 -Y8- TO STA. 36+13 -Y8-, AND CONSTRUCT MONOLITHIC ISLANDS (SEE TCP-19, 21, AND 22).

- AWAY FROM TRAFFIC CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (TCP-19 THRU 23):
- -Y7- FROM STA. 14+05 -Y7- TO -L-
  - -Y7- FROM STA. 27+00 -Y7- TO STA. 27+85 +/- -Y7-
  - -Y7REV- FROM STA. 27+85 +/- -Y7REV- TO STA. 33+75 -Y7REV-
  - -Y7CONN1- FROM STA. 10+00 -Y7CONN1- TO STA. 10+65 -Y7CONN1-
  - -Y7REVCONN2- FROM STA. 10+00 -Y7REVCONN2- TO STA. 10+68 -Y7REVCONN2-

BEHIND WATER FILLED BARRIER AND DRUMS CONSTRUCT THE MEDIAN AND MONOLITHIC ISLAND AS SHOWN ON TCP-14.

## PHASE III

- STEP 1) AWAY FROM TRAFFIC INSTALL TEMPORARY MARKINGS (PAINT) ON THE FOLLOWING (SEE TCP-26 THRU 31):
- THE LEFT SIDE OF -L- FROM STA. 10+00 -L- TO STA. 66+75 -L-
  - -Y7- FROM STA. 14+05 -Y7- TO STA. 25+37 -Y7-
  - -Y7- FROM STA. 26+93 -Y7- TO STA. 27+85 +/- -Y7-
  - -Y7REV- FROM STA. 27+85 +/- -Y7REV- TO STA. 34+75 -Y7REV-
  - -Y7CONN1- FROM STA. 10+00 -Y7CONN1- TO STA. 10+65 -Y7CONN1-
  - -Y7REVCONN2- FROM STA. 10+00 -Y7REVCONN2- TO STA. 10+68 -Y7REVCONN2-

AWAY FROM TRAFFIC INSTALL PCB ON THE LEFT SIDE OF -L- FROM STA. 45+06 -L- TO STA. 47+16 -L-, AND FROM STA. 59+64 -L- TO STA. 63+14 -L- (SEE TCP-28 AND 29).

USING RSD 1101.02, SHEET 1 OF 9, REMOVE ALL WATER FILLED BARRIER, REMOVE DRUMS AND OPEN DRIVEWAY AT STA. 10+00 -L-. ALSO INSTALL TEMPORARY MARKINGS ON -Y-, -Y1-, -Y3-, -Y5-, AND -DRIVE3- (SEE TCP-26 THRU 28).

PHASE III, STEPS 2A THRU 2C SHALL BE COMPLETED IN 14 CONSECUTIVE CALENDAR DAYS (SEE SPECIAL PROVISIONS FOR LIQUIDATED DAMAGES).

- STEP 2A) USING RSD 1101.02, SHEET 1 OF 9, WEDGE THE -L-/-Y7- INTERSECTION AS SHOWN ON SHEET TCP-25A UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE AND INSTALL TEMPORARY PAVEMENT MARKINGS (REMOVABLE TAPE) FROM STA. 65+60 -L- TO STA. 69+00 -L- (SEE SHEET TCP-25B). RETURN TRAFFIC TO THE EXISTING PATTERN UPON COMPLETION OF STEP 2A OR AT THE END OF THE WORKDAY.

- STEP 2B) USING RSD 1101.02, SHEET 1 OF 9 AND POLICE AT THE -L-/-Y7- INTERSECTION COMPLETE THE FOLLOWING (SEE TCP-25B):
- WEDGE -Y7- AND INSTALL TEMPORARY PAVEMENT MARKINGS FROM STA. 9+50 -Y7- TO STA. 14+05 -Y7-
  - WEDGE -Y7REV- FROM STA. 34+75 -Y7REV- TO STA. 37+46 -Y7REV- AND INSTALL TEMPORARY PAVEMENT MARKINGS FROM STA. 33+79 -Y7REV- TO STA. 37+46 -Y7REV-
  - SHIFT TRAFFIC FROM EXISTING SR 1131 TO PROPOSED -Y7-, -Y7REV-, AND INSTALL TYPE III BARRICADES AND DRUMS AS SHOWN ON SHEET TCP-25B CLOSING EXISTING SR 1131 AT THE -Y7- TIE-IN'S THE CROSSOVER BETWEEN -Y7- AND -Y8-.

AWAY FROM TRAFFIC CONSTRUCT -Y7CONN1- FROM STA. 10+65 -Y7CONN1- TO STA. 12+98 -Y7CONN1- AND -Y7REVCONN2- FROM STA. 10+68 -Y7REVCONN2- TO STA. 13+06 -Y7REVCONN2- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE.

- STEP 2C) AWAY FROM TRAFFIC INSTALL TEMPORARY MARKINGS AND TEMPORARY MARKERS ON THE FOLLOWING AND OPEN TO TRAFFIC (SEE TCP-25C):
- -Y7CONN1- FROM STA. 10+65 -Y7CONN1- TO STA. 12+98 -Y7CONN1-
  - -Y7REVCONN2- FROM STA. 10+68 -Y7REVCONN2- TO STA. 12+95 -Y7REVCONN2-

INSTALL TYPE III BARRICADES AND DRUMS CLOSING EXISTING -L- AT STA. 67+00 -L- EAST OF THE -L-/-Y7- INTERSECTION AND EXISTING SR 1131, AS SHOWN ON SHEET TCP-25C.

USING RSD 1101.02, SHEET 3 OF 9, INSTALL TEMPORARY MARKINGS ON THE LEFT SIDE OF -L- FROM STA. 5+14 -L- TO STA. 10+00 -L- AND ON THE -L-/-Y7- INTERSECTION FROM STA. 26+93 -Y7- TO STA. 27+00 -Y7-, SHIFT WESTBOUND TRAFFIC TO THE LEFT SIDE OF -L-, AND SHIFT ALL -L- TRAFFIC ONTO TEMPORARY PATTERN ON THE LEFT SIDE OF -L- FROM STA. 29+00 -L- TO STA. 66+75 -L- (SEE TCP-25C, 27 THRU 30).

INSTALL PERMANENT MARKINGS (THERMOPLASTIC) ON THE RIGHT SIDE OF -L- FROM STA. -3+40 -L- TO STA. 6+13 -L-, AND INSTALL TEMPORARY MARKINGS (PAINT) FROM STA. 6+13 -L- TO STA. 29+00 -L-. SHIFT -L- EASTBOUND TRAFFIC INTO NEW TEMPORARY PATTERN (SEE TCP-25, 25C, 26, & 27).

COMPLETE INSTALLATION OF TEMPORARY SIGNALS AND ACTIVATE.

- STEP 3) USING RSD 1101.02, SHEET 3 OF 9 CONSTRUCT THE RIGHT LANE OF SOUTHBOUND -Y8- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE. CLOSE THE REMAINING CROSSOVER AT STA. 15+00 -Y8-, AND REMOVE BOTH CROSSOVERS AT STA. 15+00 -Y8-. REMOVE EXISTING SR 1131 FROM STA. 11+66 -Y7- TO STA. 11+50 -Y7CONN1- AND FROM STA. 11+33 -Y7REVCONN2- TO STA. 37+46 -Y7REV-. CONSTRUCT MEDIAN AND CURB AND GUTTER SECTIONS AT STA. 17+00 -L-, STA. 20+00 -L-, STA. 25+00 -L-, AND STA. 26+00 -L- (SEE TCP-26, 27, 30, 32, & 33).

USING RSD 1101.02, SHEET 3 OF 9 COMPLETE CONSTRUCTION OF MONOLITHIC ISLAND FROM STA. 7+00 -L- TO STA. 10+00 -L- (SEE TCP-25 AND 26).

USING RSD 1101.02, SHEET 1 OF 9 CONSTRUCT -Y2-, -Y4-, AND -Y6- UNDER TRAFFIC UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-27 THRU 29).

AWAY FROM TRAFFIC REMOVE PCB ON THE LEFT SIDE OF -L-. CONSTRUCT -L- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE FROM STA. 28+95 -L- TO STA. 65+59 -L-, FROM STA. 67+00 -L- TO -Y8-, AND BEHIND TEMPORARY SHORING CONSTRUCT STAGE 2 OF THE CULVERT AND THE 66" PIPE (SEE TCP-27 THRU 30).

USING TYPE III BARRICADES CLOSE EXISTING SR 1131 AT PROPOSED TURNAROUNDS, CONSTRUCT TURNAROUNDS, AND REOPEN ROADWAY (SEE TCP-30).

## PHASE IV

- STEP 1) AWAY FROM TRAFFIC REMOVE PCB AND TEMPORARY SHORING, INSTALL THE MONOLITHIC ISLANDS AT STA. 48+00 -L-, -Y3-, AND -Y5-, AND INSTALL THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND MARKERS ON THE RIGHT SIDE OF -L- FROM STA. 29+00 -L- TO -Y8- (SEE PM-1,3, & 4).

USING RSD 1101.02, SHEET 1 OF 9, INSTALL THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND MARKERS ON -Y2-, -Y4-, AND -Y6- (SEE PM-1,3, & 4).

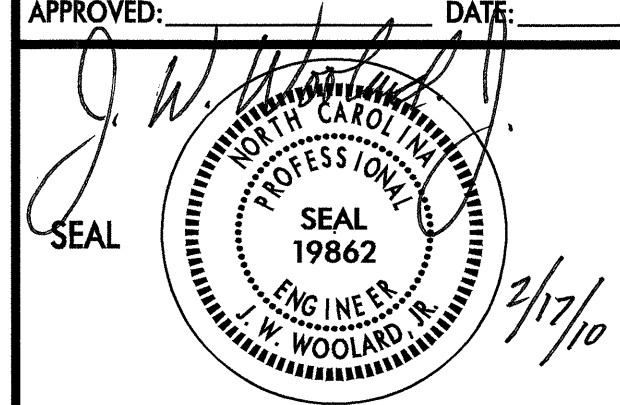

- STEP 2) USING RSD 1101.02, SHEET 1 OF 9, INSTALL THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND MARKERS ON THE RIGHT SIDE OF -L- FROM STA. 6+13 -L- TO STA. 29+00 -L- AND -Y8-. TRAFFIC SHALL RETURN TO THE EXISTING PATTERN AT THE END OF THE WORKDAY (SEE PM-1, 2, 3, 5, AND 6). UPON COMPLETION OF OPERATIONS, OPEN ALL EASTBOUND -L- LANES TO FINAL PATTERN.

- STEP 3) USING RSD 1101.02, SHEET 1 OF 9 AND DRUMS AS NEEDED INSTALL THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND MARKERS ON THE LEFT SIDE OF -L- FROM STA. 10+00 -L- TO -Y8-, -Y-, -Y1-, -Y3-, -Y5-, AND OPEN TO THE FINAL TRAFFIC PATTERN. COMPLETE THE INSTALLATION OF AND ACTIVATE FINAL SIGNALS (SEE PM-1,3, & 4).

USING RSD 1101.02, SHEET 3 OF 9, REMOVE CROSSOVER AT STA. 33+00 -Y8- (SEE TCP-33).

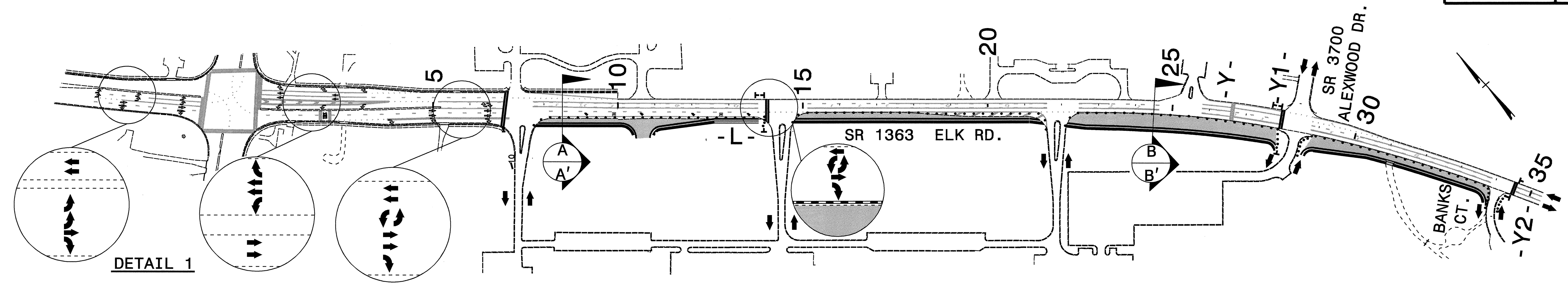
- STEP 4) USING RSD 1101.02, SHEET 1 OF 9, INSTALL THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND MARKERS ON -Y7-, -Y7CONN1-, -Y7CONN2-, AND -DRIVE3-.

- STEP 5) REMOVE ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES.

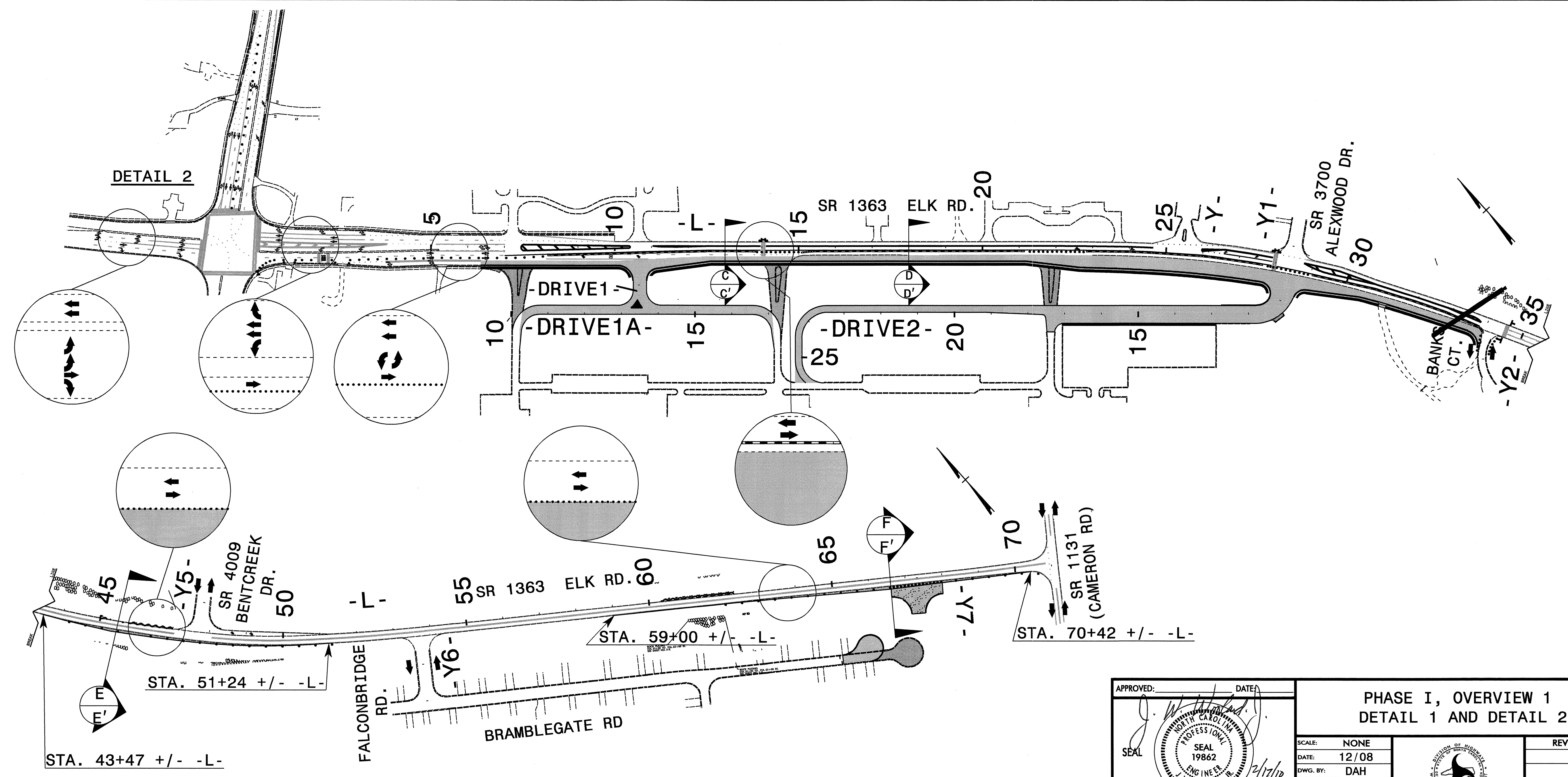
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| DESIGN BY: DAH  | REVIEWED BY: JWW |   |  | REVISIONS |
| DESIGN BY: DAH  | REVIEWED BY: JWW |   |  | CADD FILE |

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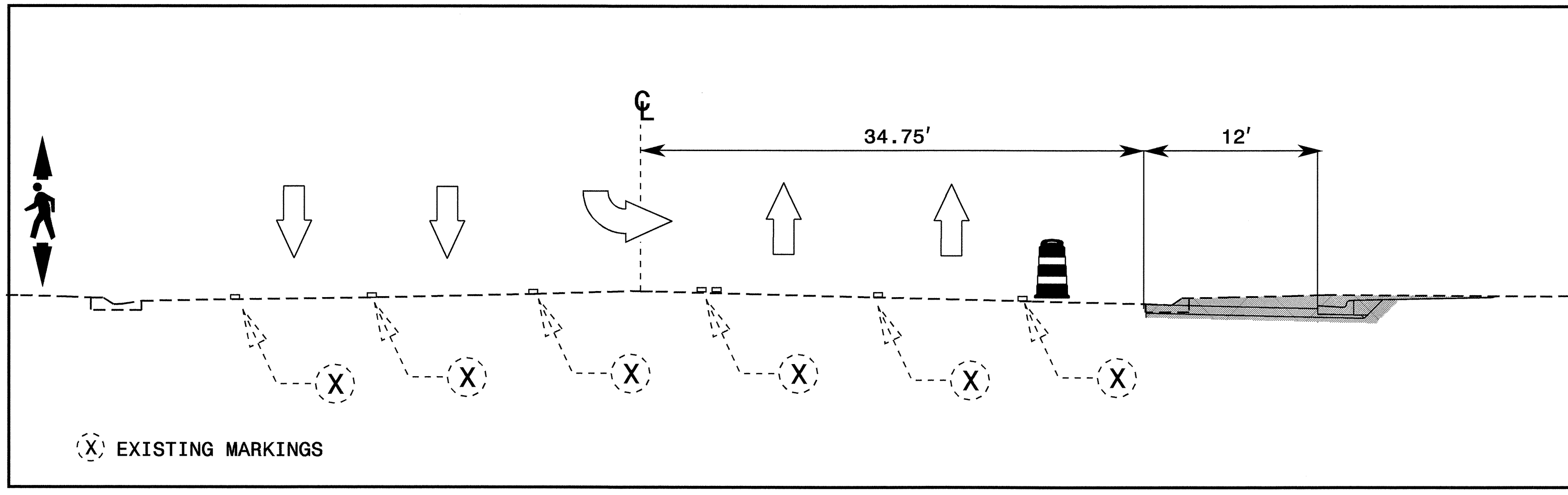
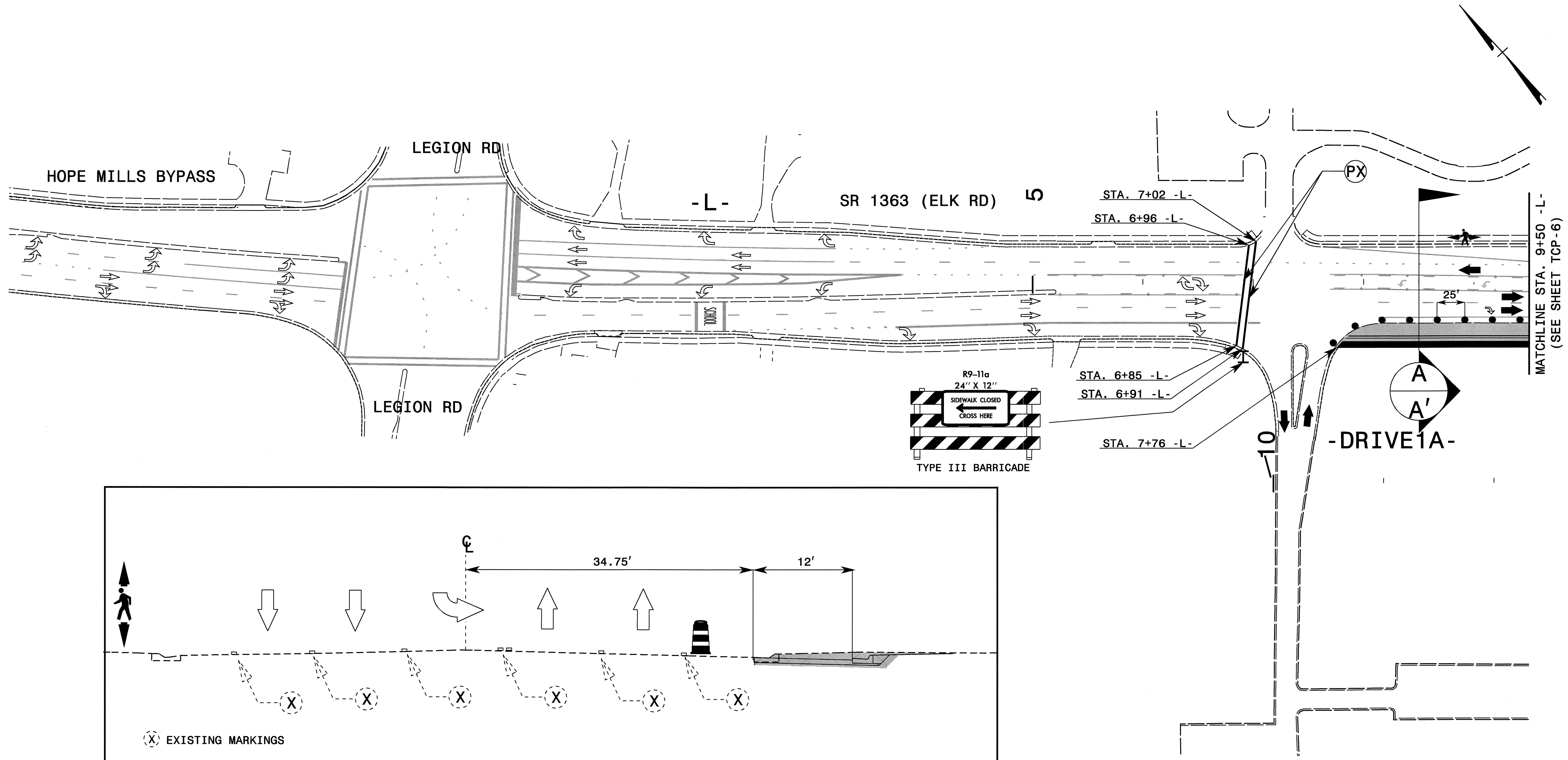
DETAIL 1



DETAIL 2

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| APPROVED:        | DATE:          | <b>PHASE I, OVERVIEW 1</b><br><b>DETAIL 1 AND DETAIL 2</b>   |  |           |  |  |  |  |  |  |  |
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| SCALE: NONE      | DATE: 12/08    |  |  |           |  |  |  |  |  |  |  |
| DWG. BY: DAH     | DESIGN BY: DAH |  |  |           |  |  |  |  |  |  |  |
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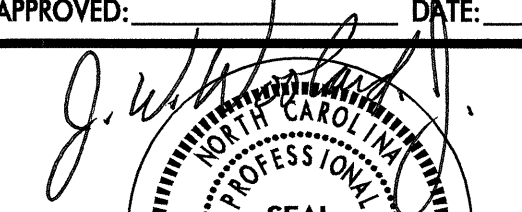
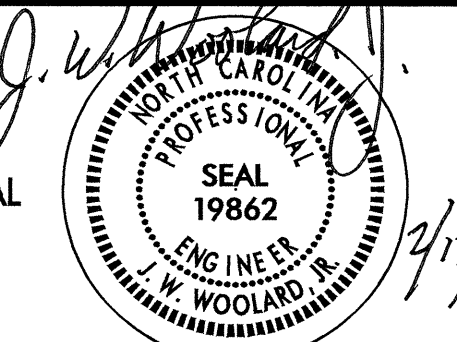



CUT SECTION  
STA. 8+50 -L- (A/A')

- : PROPOSED PAVEMENT MARKING LINE
- : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↕ : QG
- ↘ : QB    ↙ : QE
- ↑ : QC    ↓ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL

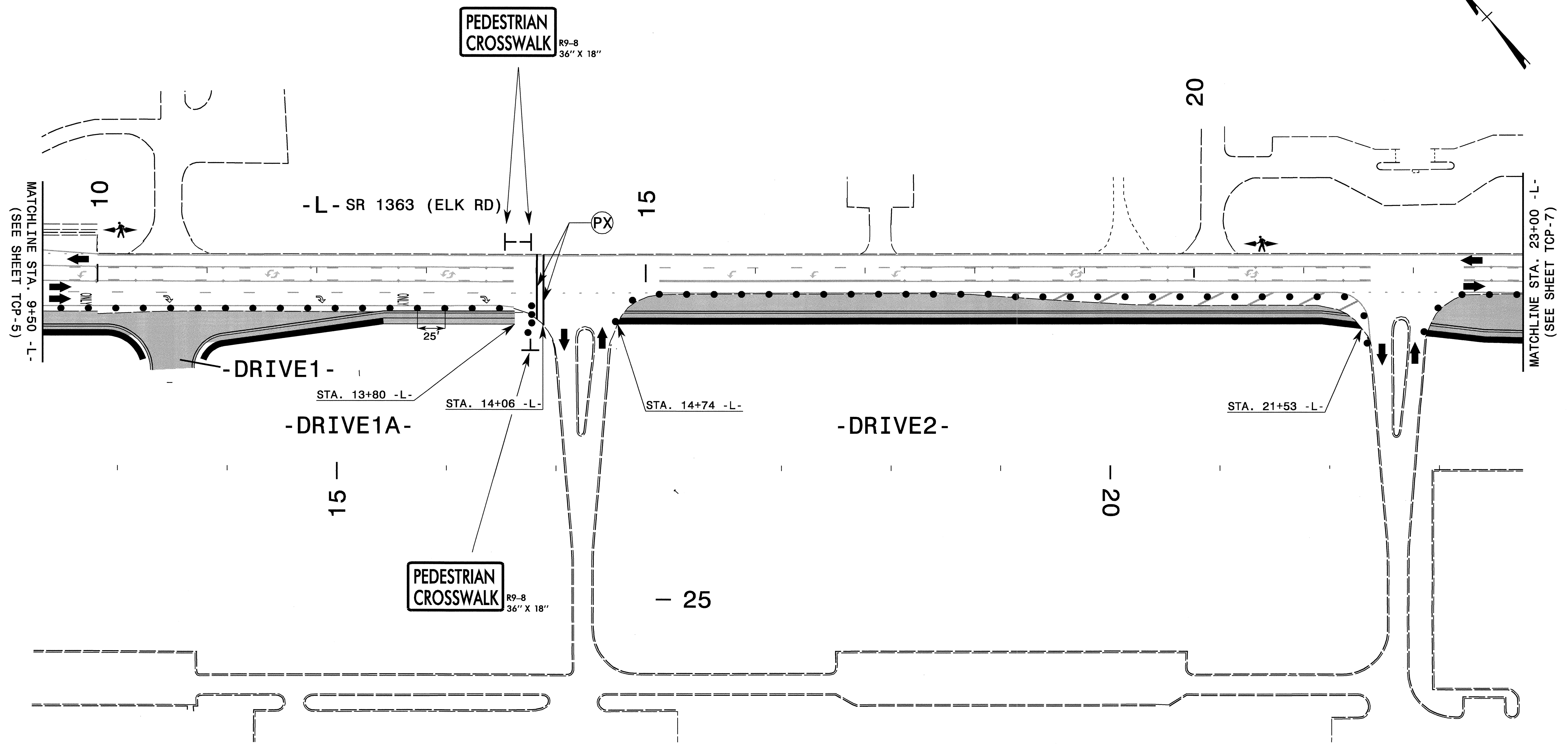
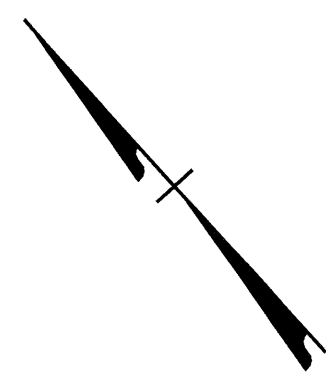
CROSSWALK LINES ARE 6' APART.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

|   |                |   |           |
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| APPROVED:  | DATE: 2/17/08  | <b>DETAIL 1, PHASE I, STEP 3</b>  |           |
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| SCALE: NONE   | DATE: 12/08    |  | REVISIONS |
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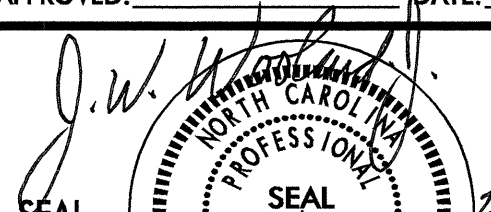
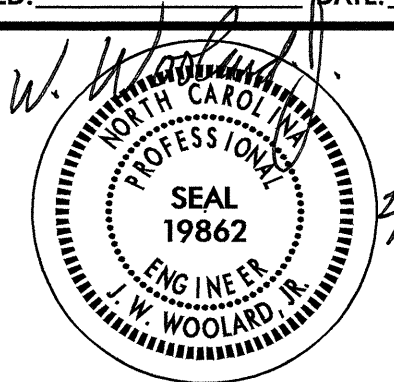



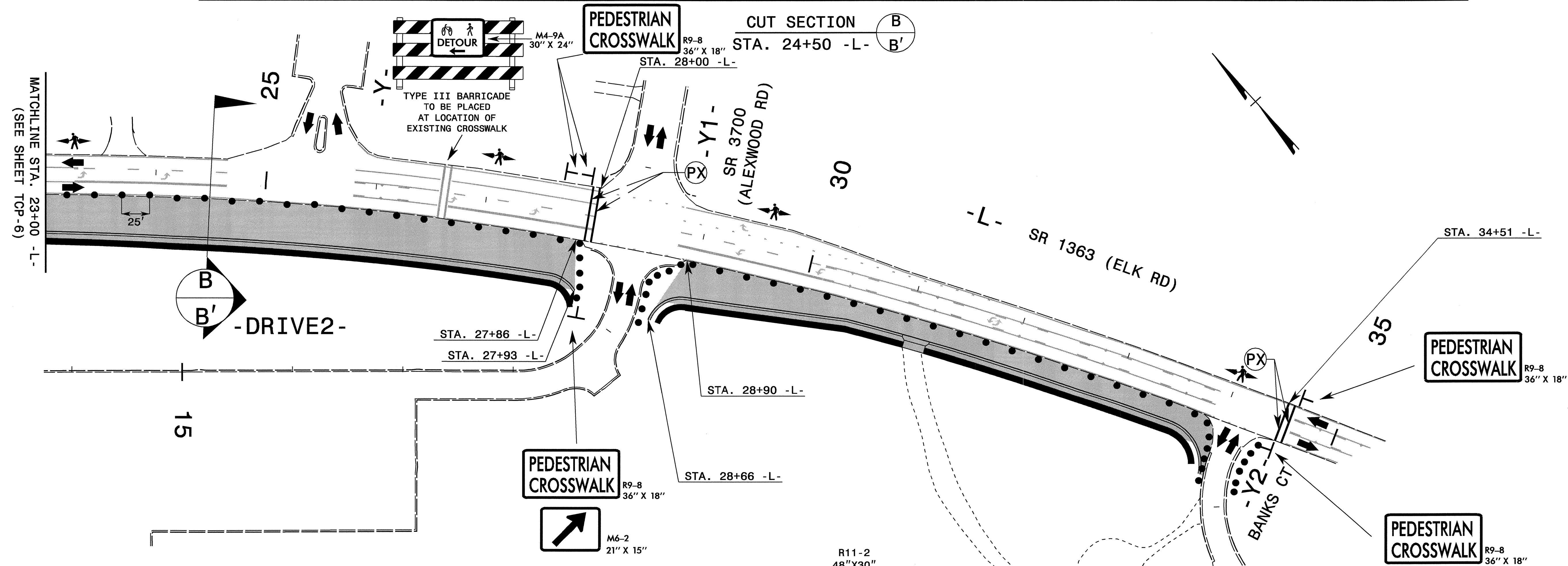
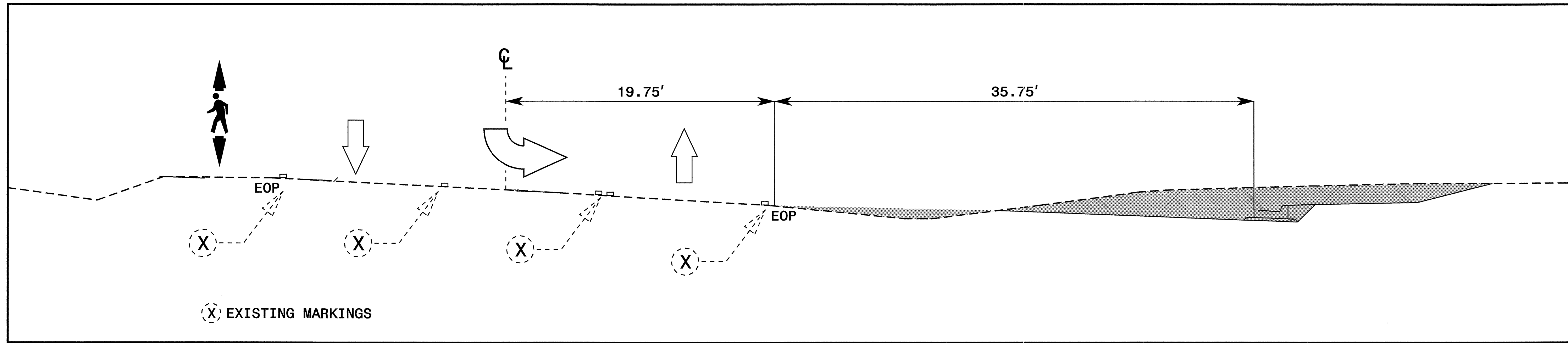
- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↘ : QG
- ↙ : QB    ↖ : QE
- ↕ : QC    ↗ : QF
- ↔ : EXISTING PAVEMENT MARKING SYMBOL

CROSSWALK LINES ARE 6' APART.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

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| DWG. BY: DAH  | DESIGN BY: DAH |   |           |
| REVIEWED BY: JWW  |                |   |           |



- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↕ : QG
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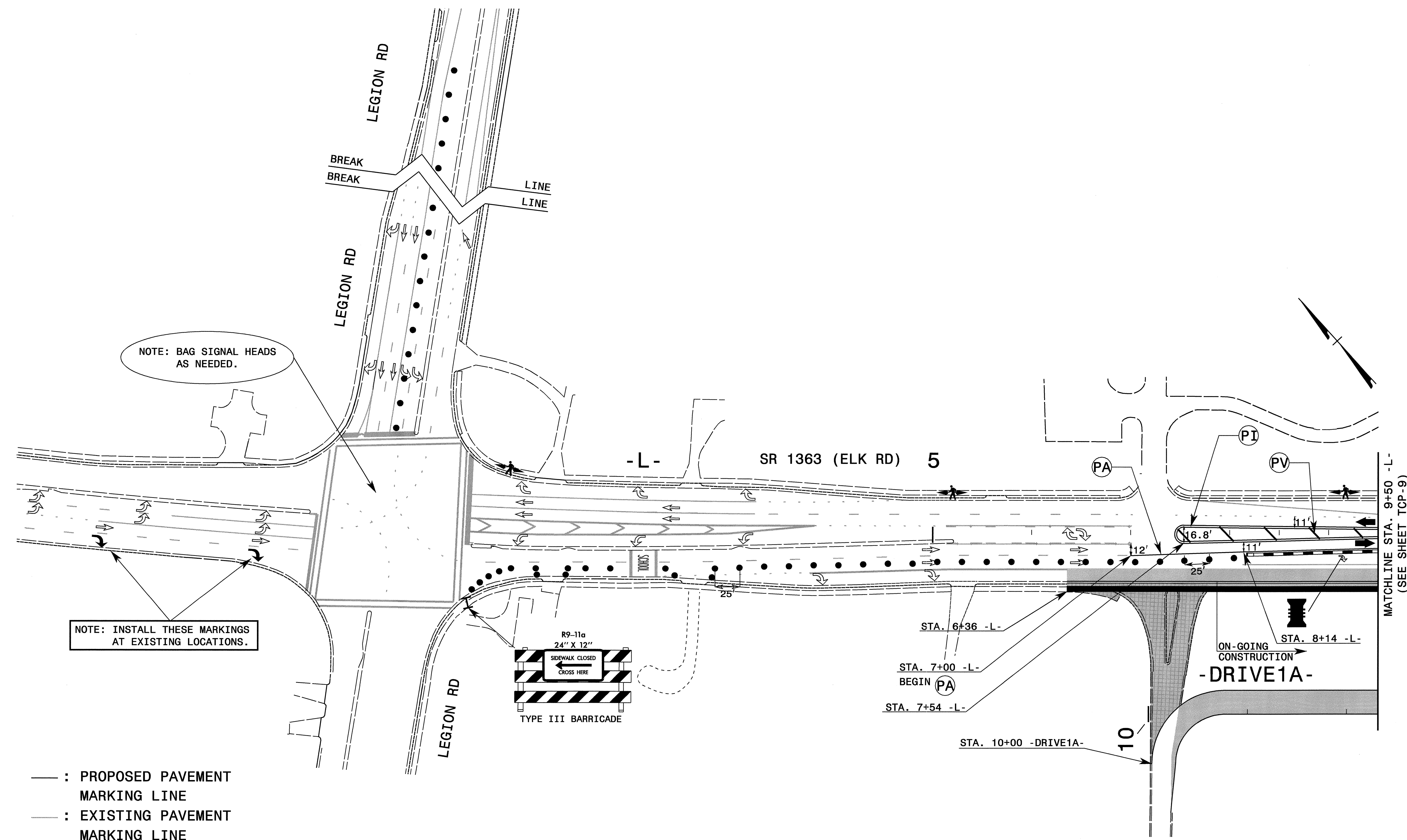
CROSSWALK LINES ARE 6' APART.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

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 AT WZTC241738

| APPROVED:           | DATE:   | <b>DETAIL 1, PHASE I, STEP 3</b> |  |           |  |  |  |  |  |  |  |
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| <i>J.W. Woolard</i> | 12/7/08 |                                  |  |           |  |  |  |  |  |  |  |
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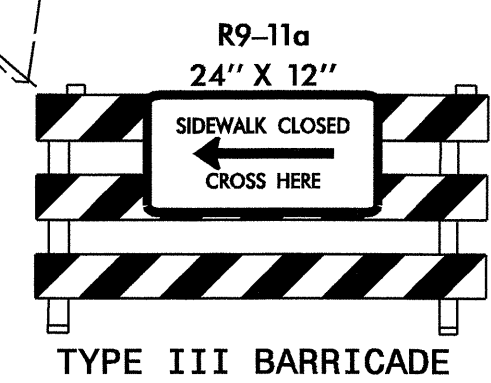




NOTE: BAG SIGNAL HEADS AS NEEDED.

NOTE: INSTALL THESE MARKINGS AT EXISTING LOCATIONS.

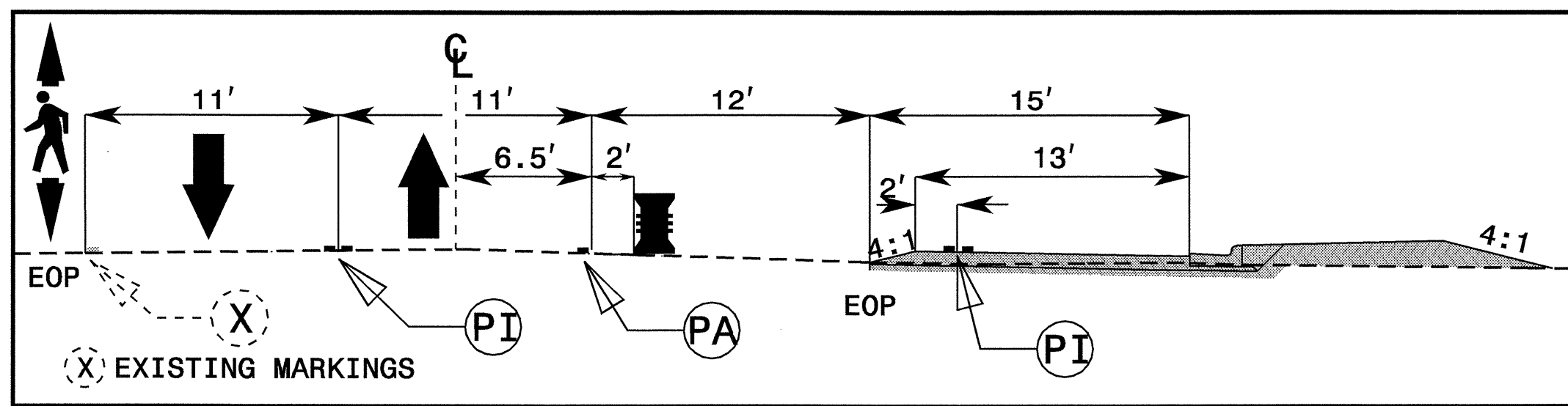
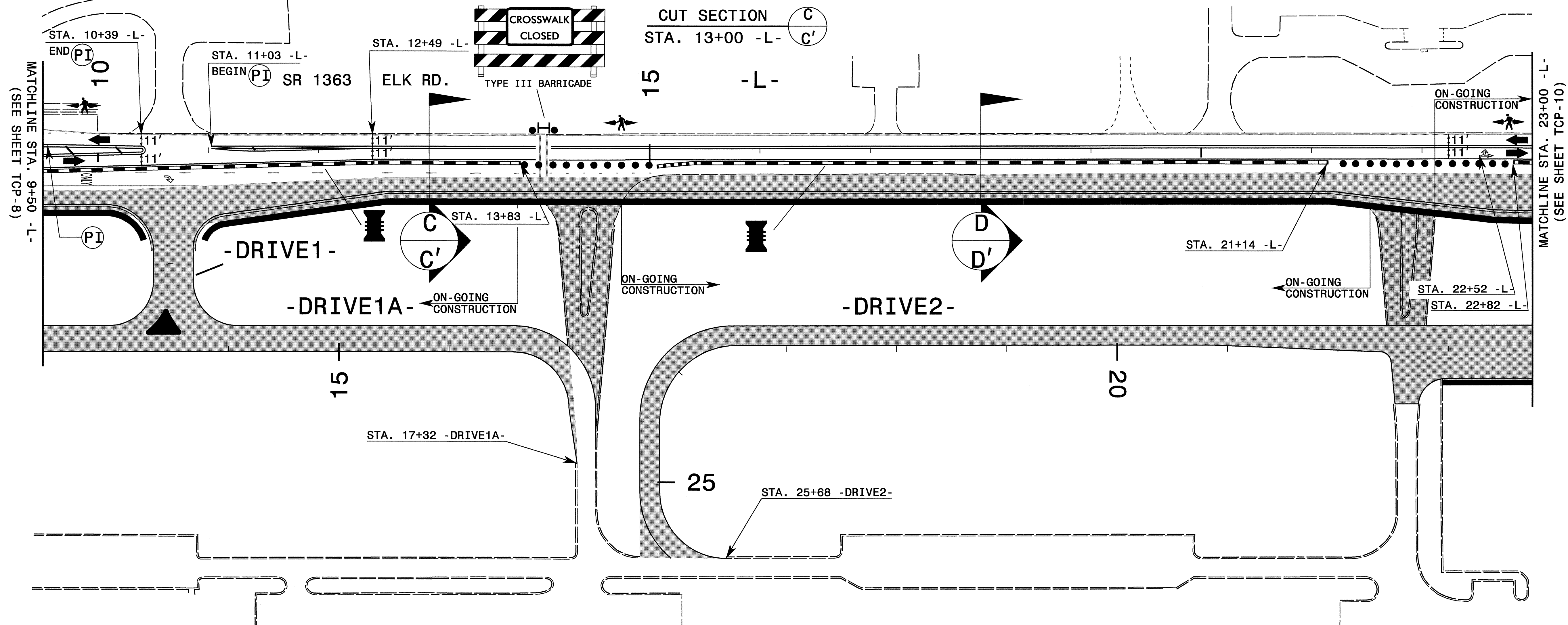
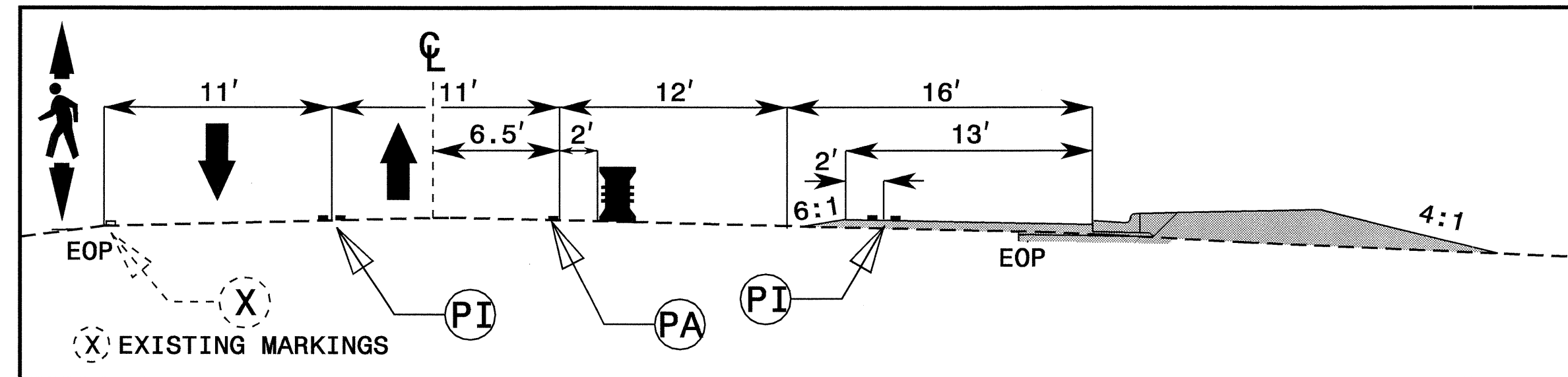
- : PROPOSED PAVEMENT MARKING LINE
- : EXISTING PAVEMENT MARKING LINE
- ↶ : QA    ↷ : QD    ↸ : QG
- ↷ : QB    ↶ : QE
- ↵ : QC    ↷ : QF
- ↶ : EXISTING PAVEMENT MARKING SYMBOL



- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

| APPROVED: <i>J.W. Woolard</i> | DATE: 2/17/10 | <b>DETAIL 2, PHASE I, STEP 4</b> |   |           |  |  |  |
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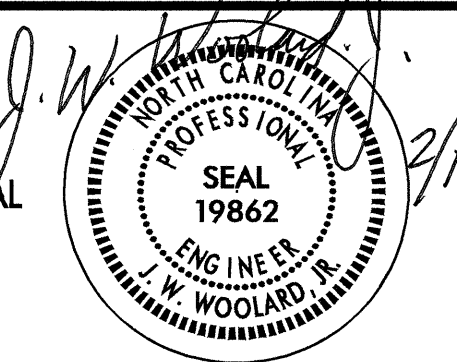
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 AT WZTC244738



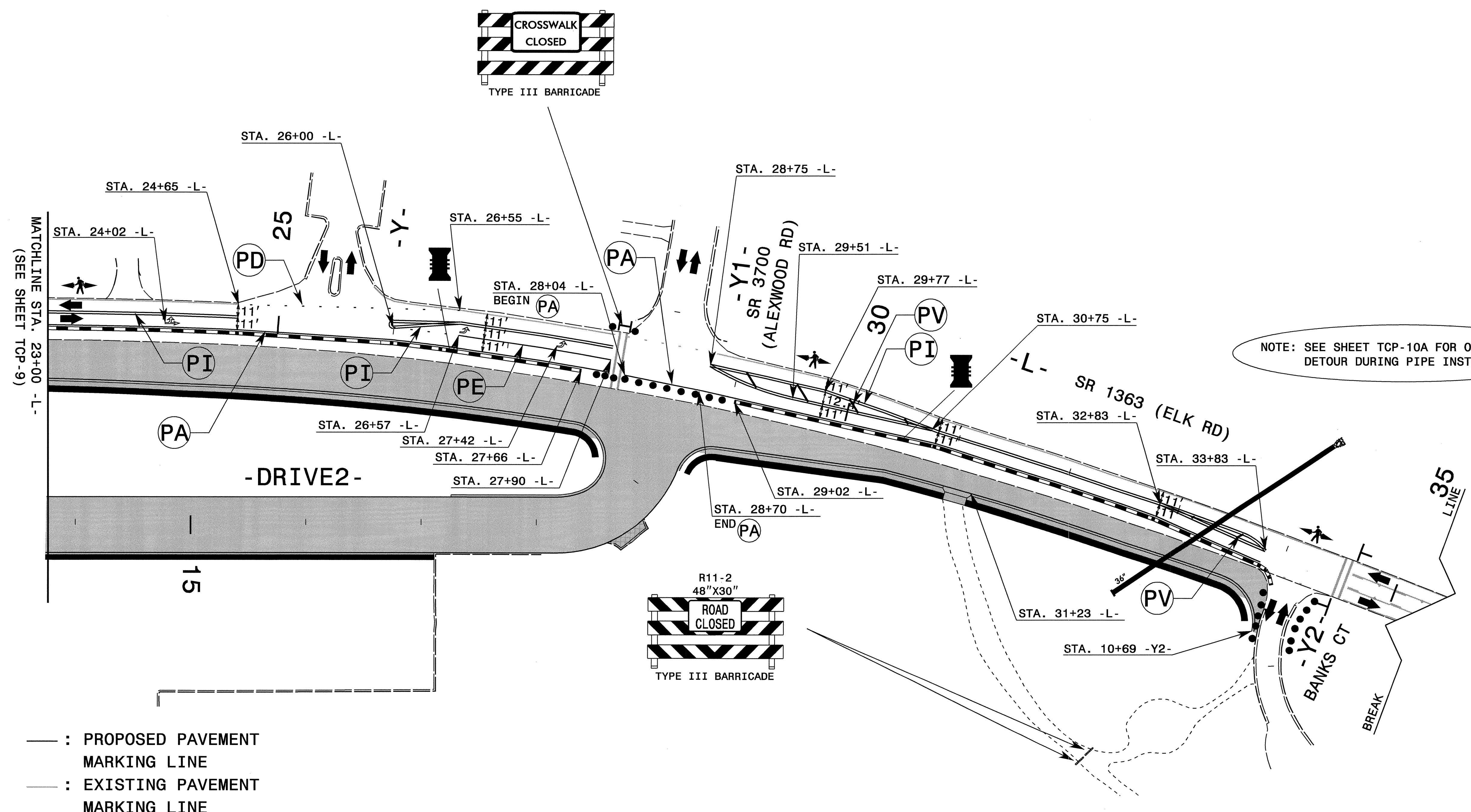
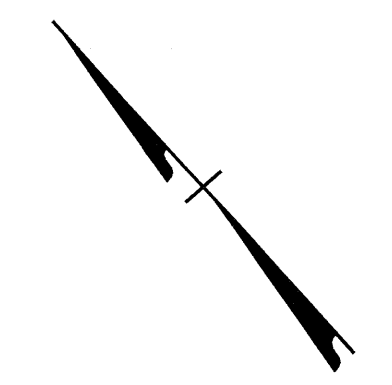
- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA   ↗ : QD   ↘ : QG
- ↙ : QB   ↖ : QE
- ↕ : QC   ↗ : QF
- ↔ : EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

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 AT WZTC24738

| APPROVED:  | DATE: 2/17/10  | <b>DETAIL 2, PHASE I, STEP 4</b>  |  |           |  |  |  |
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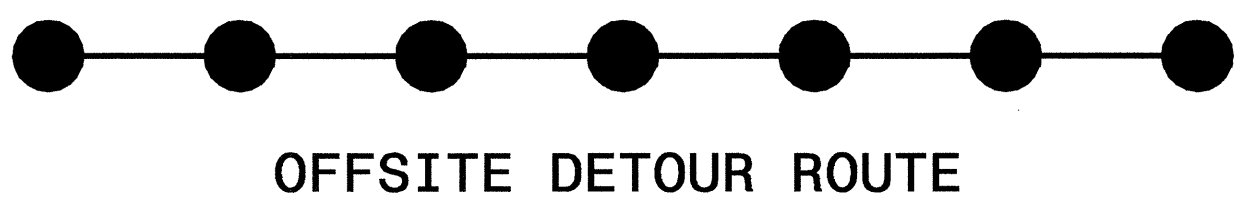
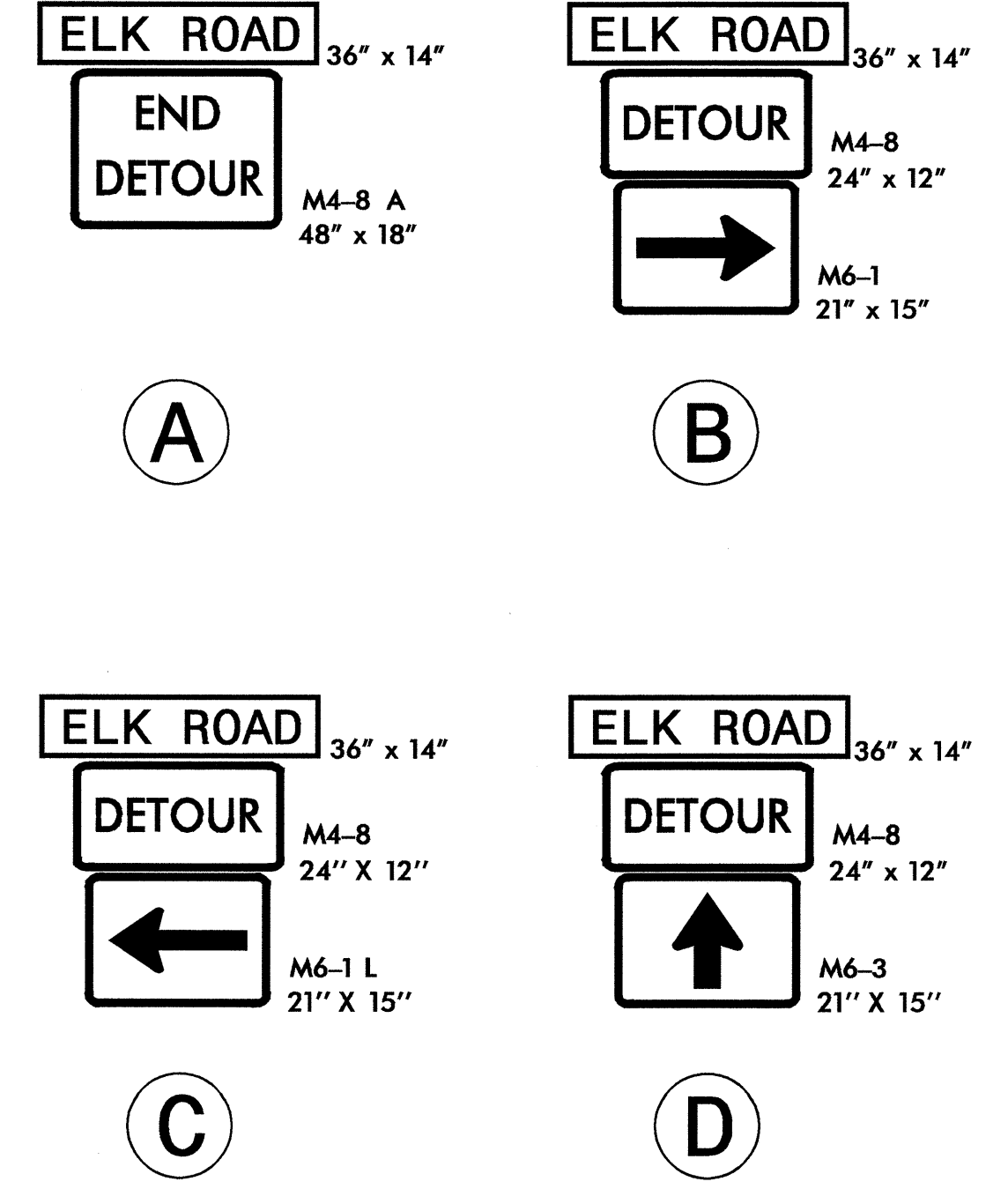
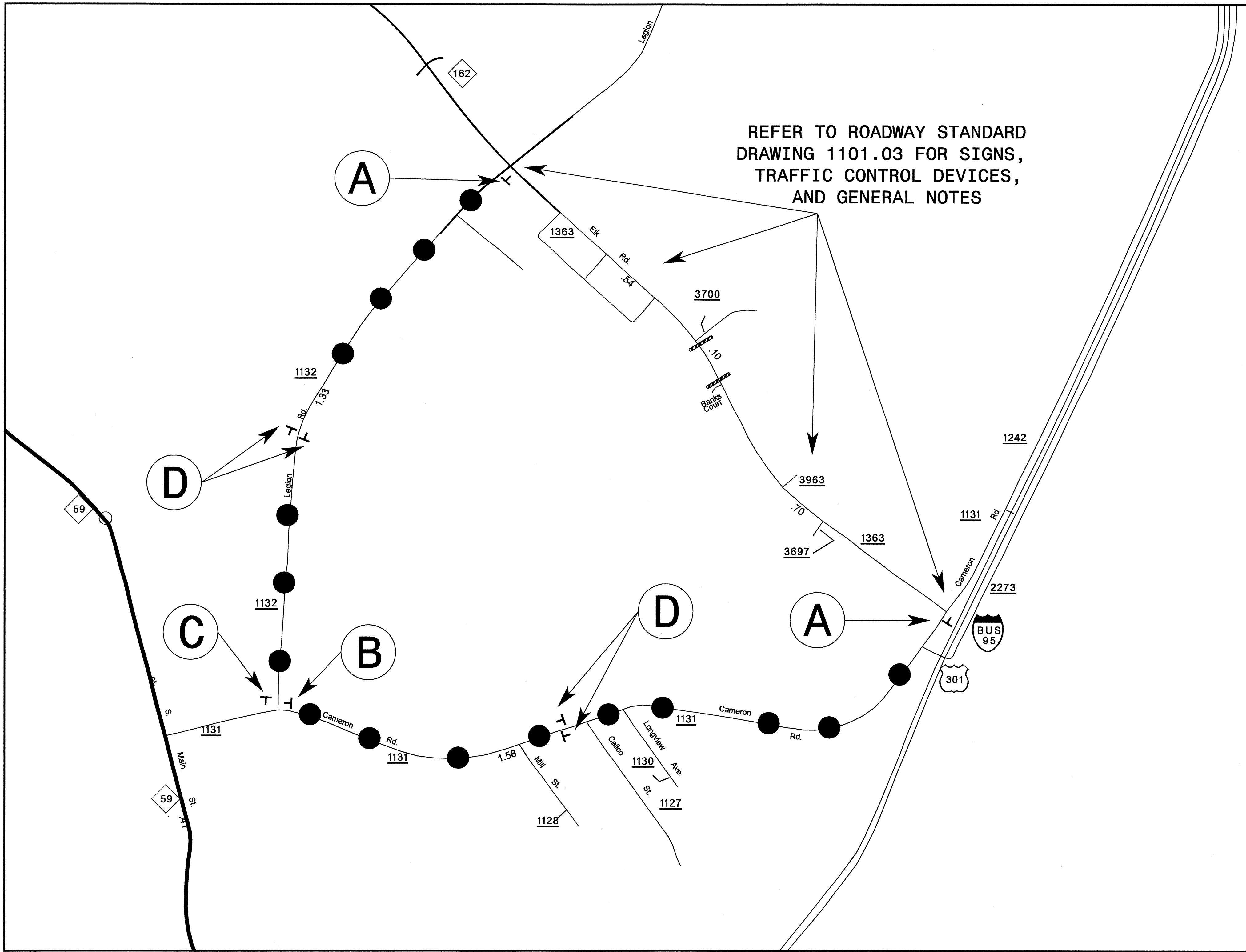
NOTE: SEE SHEET TCP-10A FOR OFFSITE DETOUR DURING PIPE INSTALLATION.

- : PROPOSED PAVEMENT MARKING LINE
- : EXISTING PAVEMENT MARKING LINE
- ↶ : QA    ↷ : QD    ↸ : QG
- ↷ : QB    ↶ : QE
- ↵ : QC    ↷ : QF
- ↶ : EXISTING PAVEMENT MARKING SYMBOL

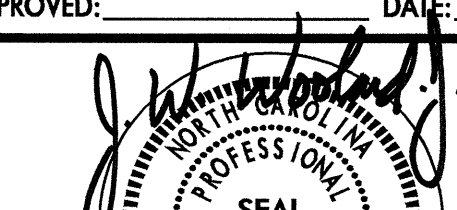

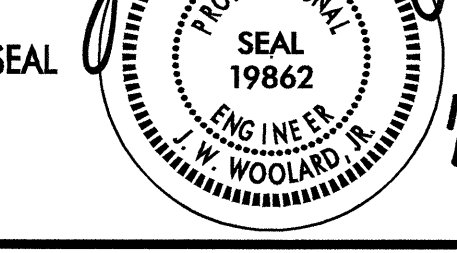
- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

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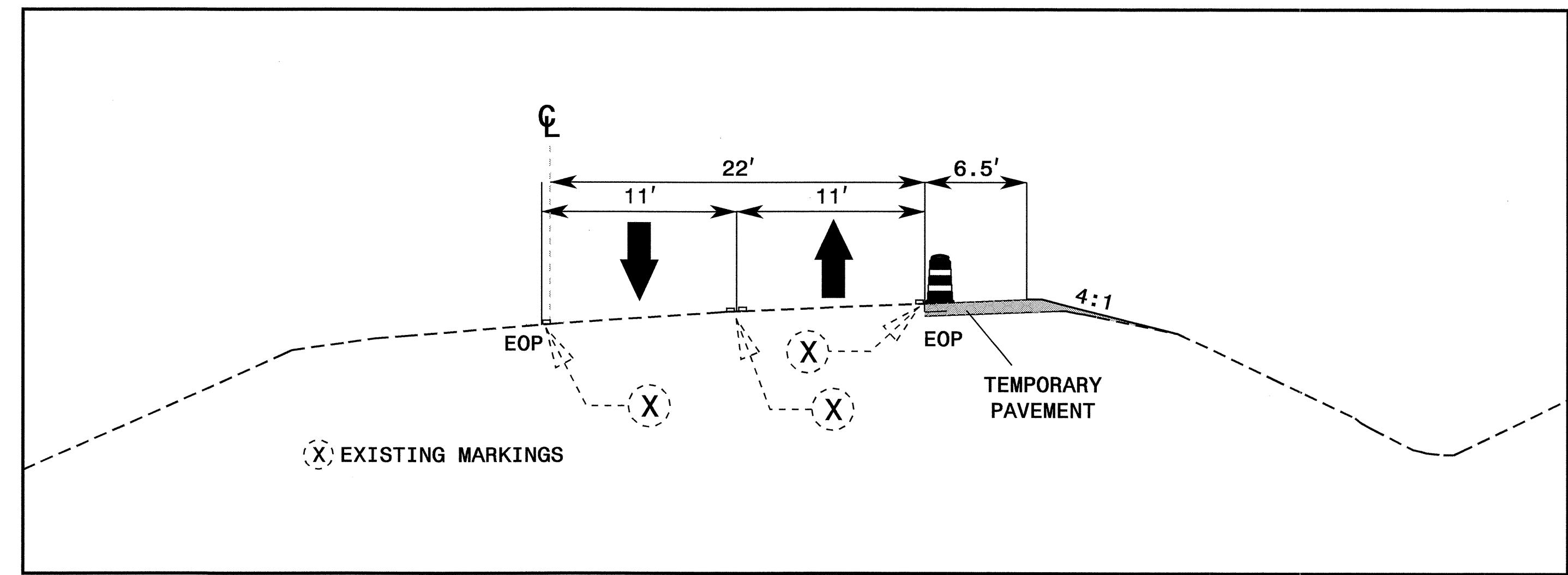
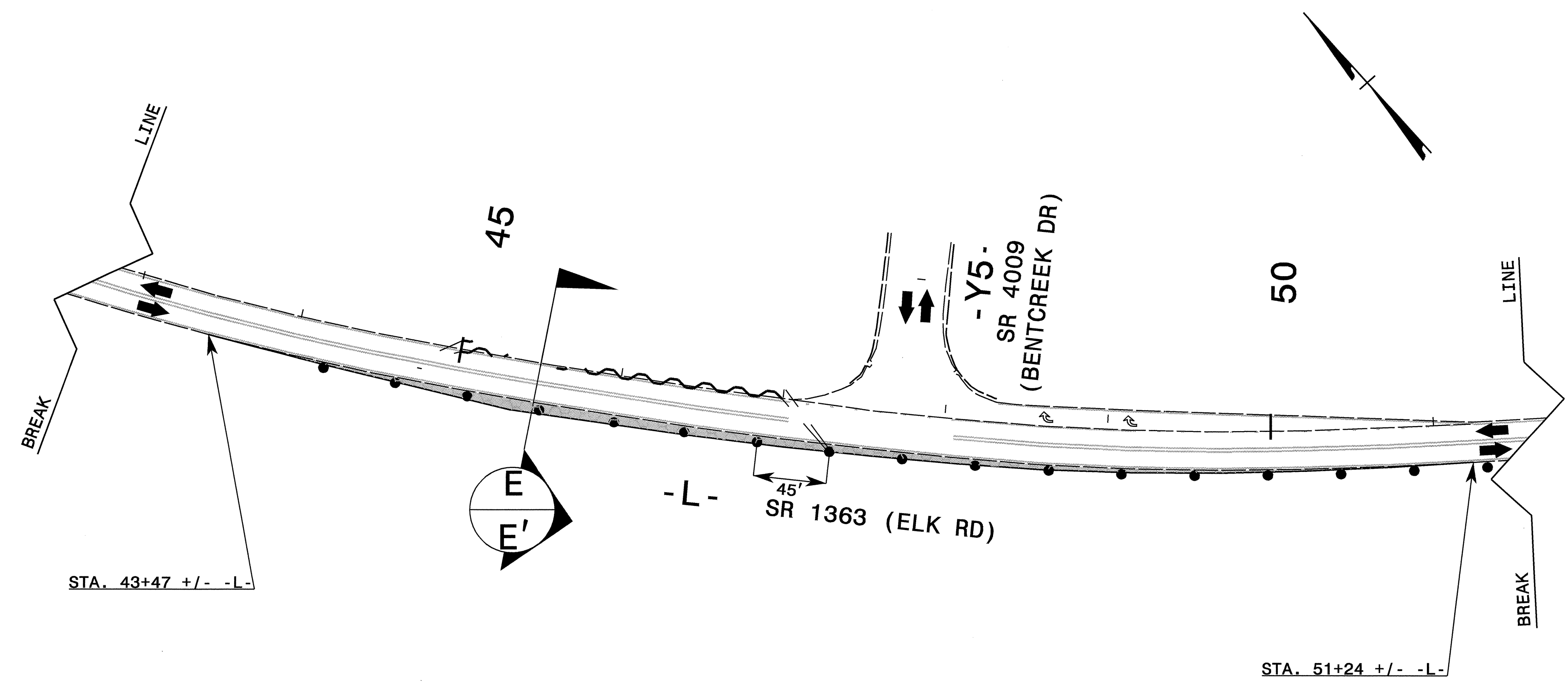
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| APPROVED:  | DATE: 1/9/09   | <b>OFFSITE DETOUR</b><br> |  |  |           |  |  |  |  |  |
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CUT SECTION  
 STA. 45+50 -L- E  
 E'

- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↪ : QA    ↩ : QD    ↔ : QG
- ↪ : QB    ↩ : QE
- ↪ : QC    ↩ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL

- TEMPORARY PAVEMENT
- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

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| APPROVED: _____ | DATE: _____      | <b>DETAIL 2, PHASE I, STEP 5</b> |  |             |  |  |  |  |  |  |
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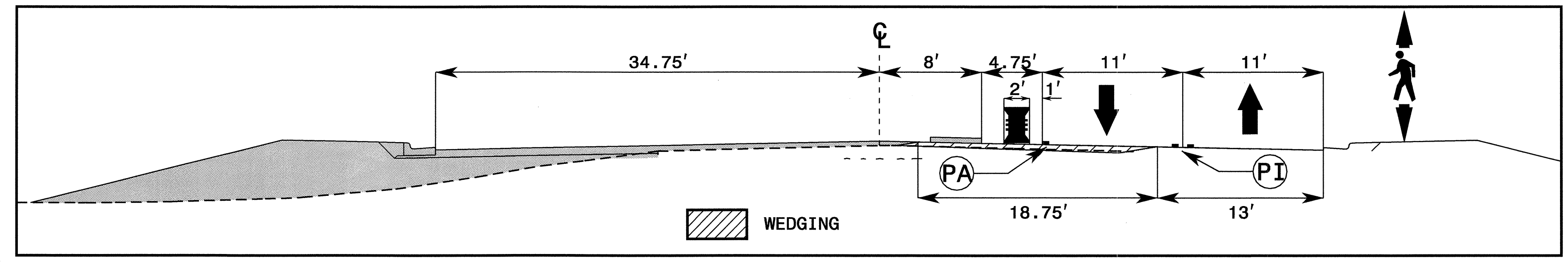




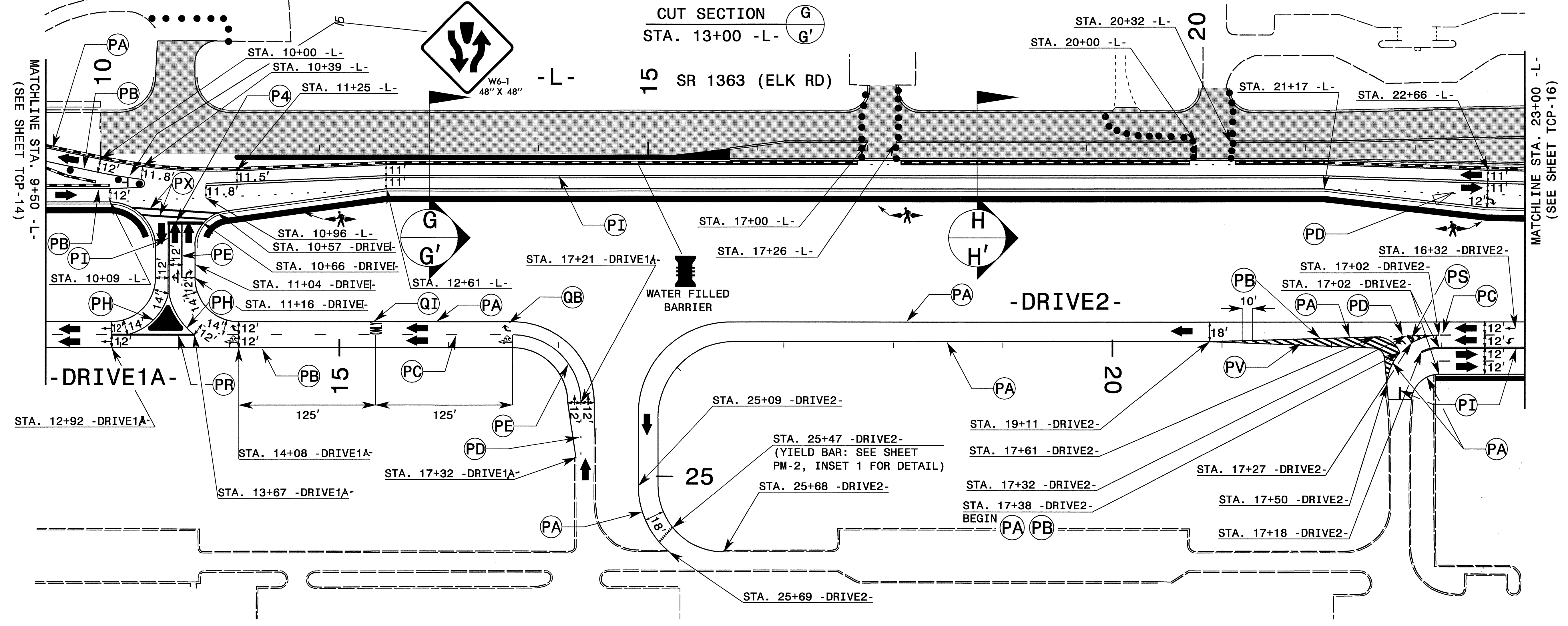






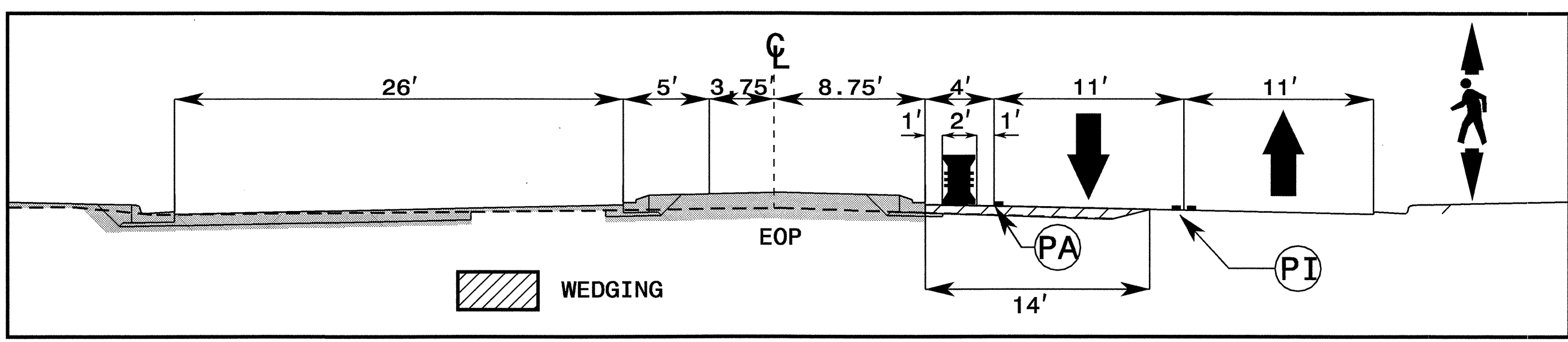


CUT SECTION G  
STA. 13+00 -L- G'



MATCHLINE STA. 9+50 -L-  
(SEE SHEET TCP-14)

MATCHLINE STA. 23+00 -L-  
(SEE SHEET TCP-16)



CUT SECTION H  
STA. 18+00 -L- H'

CROSSWALK LINES ARE 6' APART.  
CROSSWALKS WILL BE NO LESS THAN 4' FROM STOPBARS.

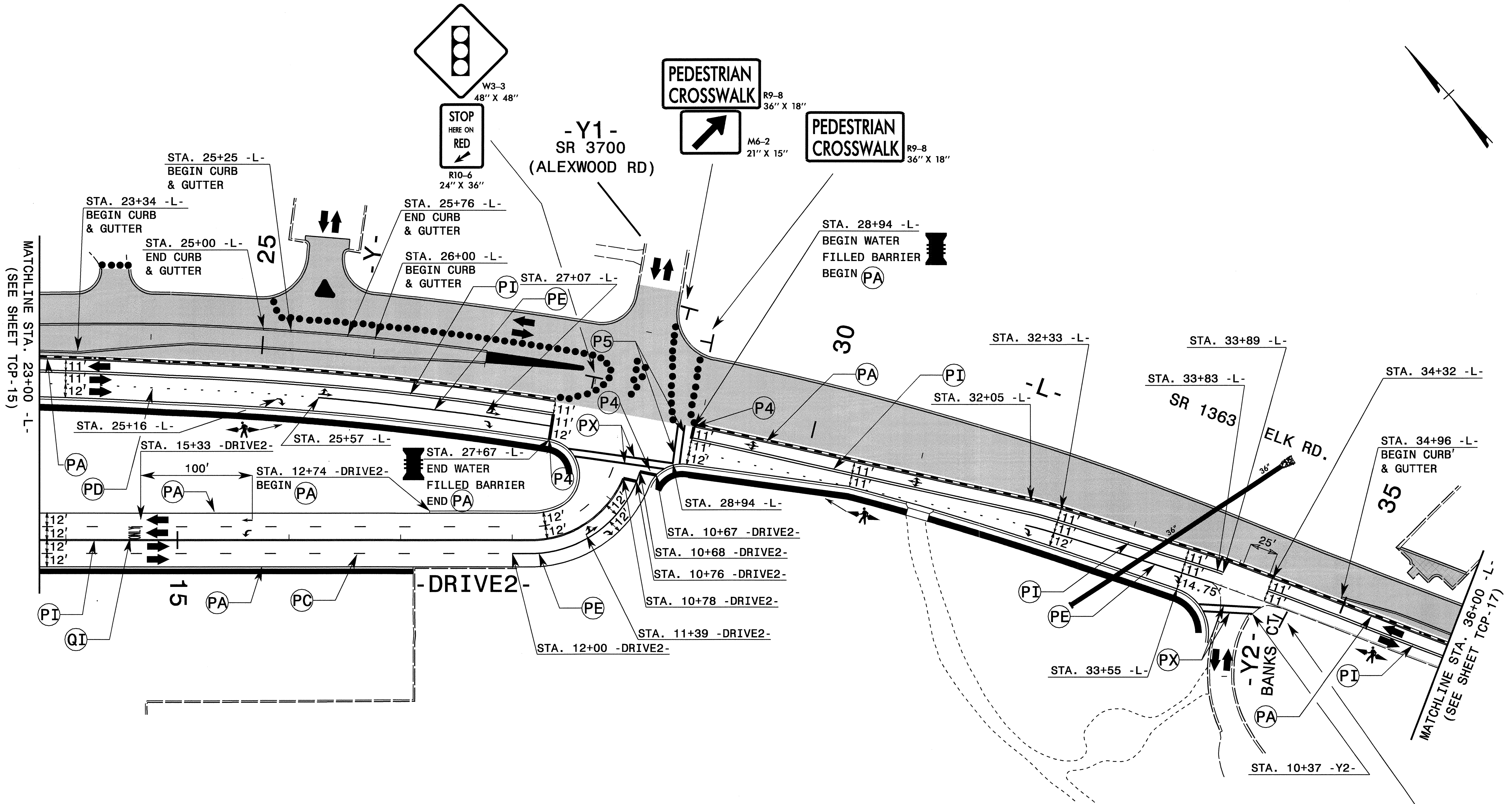
- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↔ : QG
- ↘ : QB    ↙ : QE
- ↔ : QC    ↕ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL

| APPROVED: _____ DATE: _____ | <b>PHASE II DETAIL</b> |  |           |  |  |  |  |  |  |  |
|-----------------------------|------------------------|--|-----------|--|--|--|--|--|--|--|
|                             |                        |  |           |  |  |  |  |  |  |  |
| SCALE: NONE                 | DATE: 12/08            | <table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> | REVISIONS |  |  |  |  |  |  |  |
| REVISIONS                   |                        |  |           |  |  |  |  |  |  |  |
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| DWG. BY: DAH                | DESIGN BY: DAH         |  |           |  |  |  |  |  |  |  |
| REVIEWED BY: JWW            |                        |  |           |  |  |  |  |  |  |  |

05-JAN-2009 07:31  
 \dot\cfsr\001\1012524438  
 at\wz\c24438  
 05-JAN-2009 07:31  
 \dot\cfsr\001\1012524438  
 at\wz\c24438

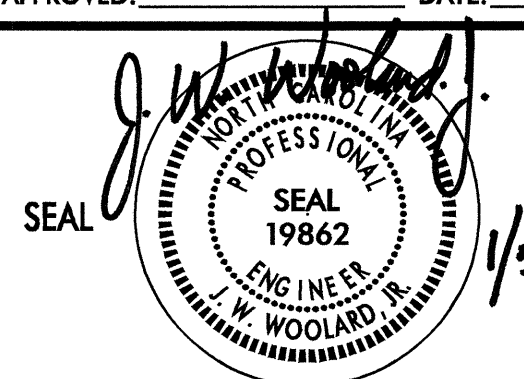




- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↙ : QA    ↖ : QD    ↗ : QG
- ↘ : QB    ↗ : QE
- ↖ : QC    ↘ : QF
- ↻ : EXISTING PAVEMENT MARKING SYMBOL

CROSSWALK LINES ARE 6' APART.  
CROSSWALKS WILL BE NO LESS THAN 4' FROM STOPBARS.

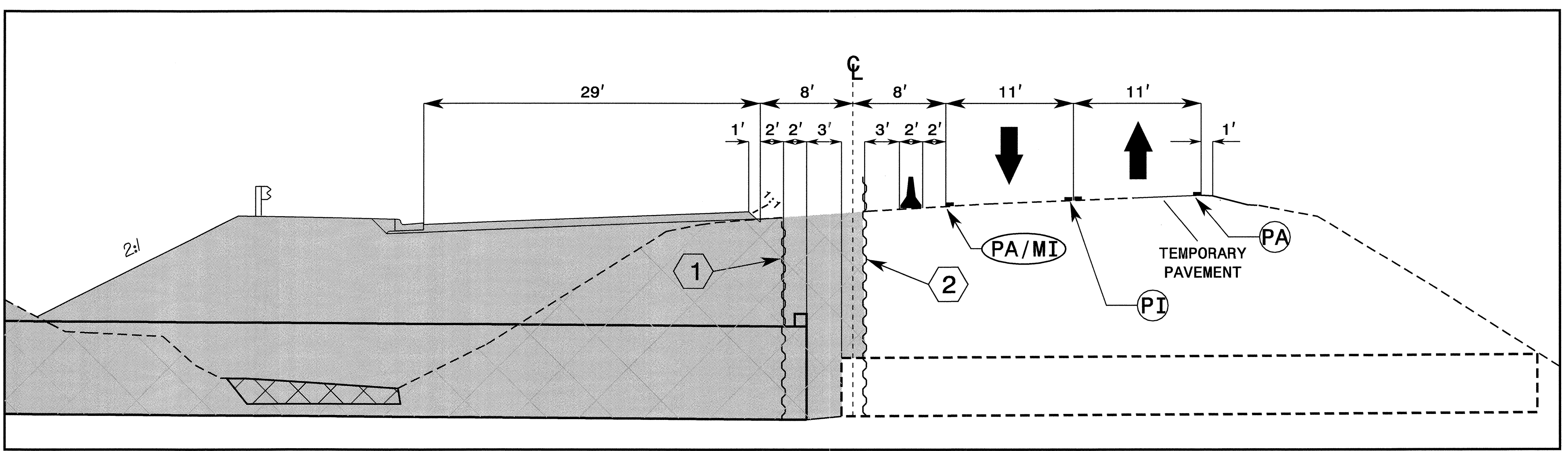
- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

| APPROVED: _____ DATE: _____   | <b>PHASE II DETAIL</b> |   |                  |           |  |  |  |  |
|---|------------------------|---|------------------|-----------|--|--|--|--|
|  |                        |   |                  |           |  |  |  |  |
| SCALE: NONE   | DATE: 12/08            | <table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> | REVISIONS        |           |  |  |  |  |
| REVISIONS   |                        |   |                  |           |  |  |  |  |
|   |                        |   |                  |           |  |  |  |  |
|   |                        |   |                  |           |  |  |  |  |
| DWG. BY: DAH  | DESIGN BY: DAH         | <table border="1"> <tr> <td>REVIEWED BY: JWJ</td> <td>CADD FILE</td> </tr> </table>   | REVIEWED BY: JWJ | CADD FILE |  |  |  |  |
| REVIEWED BY: JWJ  | CADD FILE              |   |                  |           |  |  |  |  |

05-JAN-2009 07:30  
 \DOT\GIS\Projects\U-3849\Traffic\Phase2\U-3849\_TC\_TCP\_Phil\_16.dgn  
 AT: MZ10244738

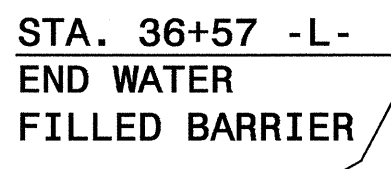


-Y3-  
FERNWOOD DR.



CUT SECTION J  
STA. 46+09 -L- J'

STA. 36+57 -L-  
END CURB  
& GUTTER



BEGIN CONSTRUCTION  
STA. 10+50 -Y3-

STA. 37+00 -L-  
BEGIN CURB  
& GUTTER

STA. 39+07 -L-  
END CURB  
& GUTTER

MATCHLINE STA. 36+00 -L-  
(SEE SHEET TCP-16)

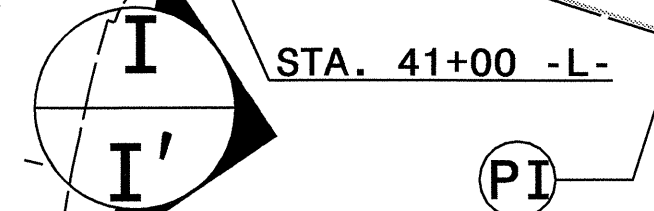
STA. 36+50 -L-  
STA. 36+37.5 -L-  
STA. 36+25 -L-

- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↔ : QA ↔ : QD ↔ : QG
- ↔ : QB ↔ : QE
- ↔ : QC ↔ : QF
- ↔ : EXISTING PAVEMENT MARKING SYMBOL



CROSSWALK LINES ARE 6' APART.

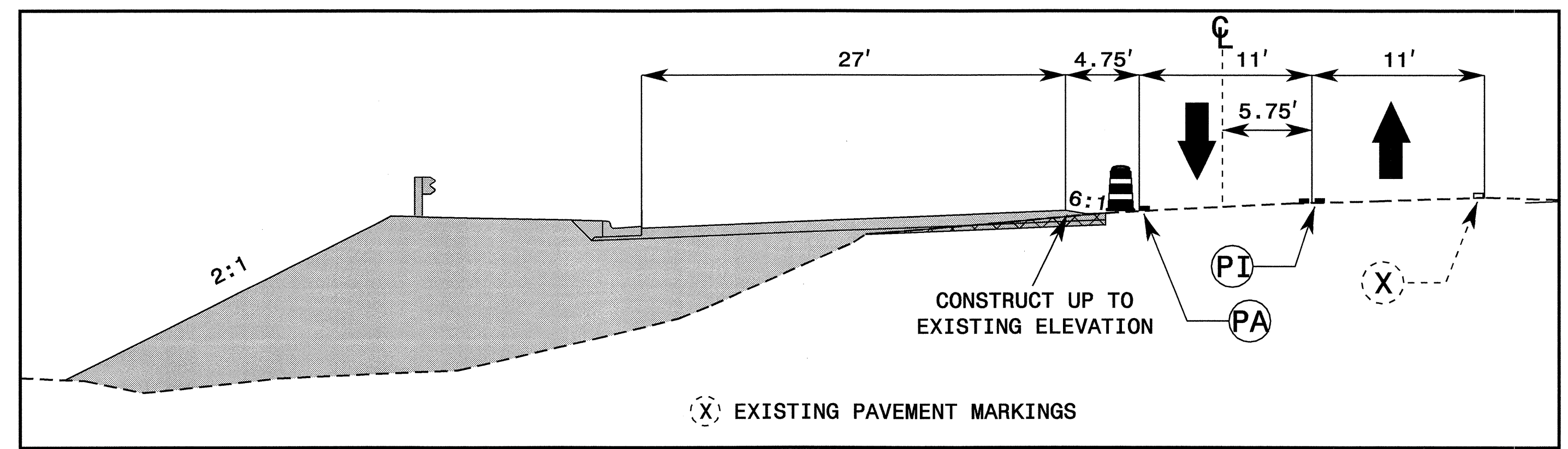
-Y4-  
DUNROBIN DR.



STA. 43+47 -L-  
BEGIN PA  
TIE TO EXISTING

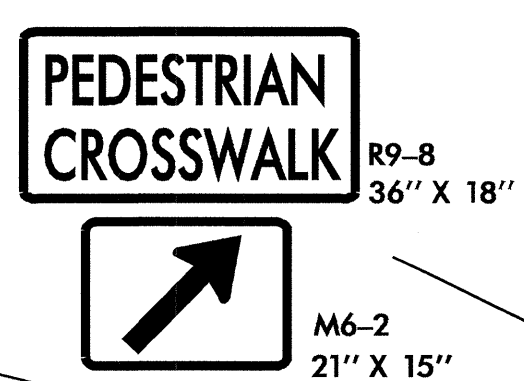
STA. 44+36 -L-  
BEGIN PORTABLE  
CONCRETE BARRIER  
BEGIN MI

(2) QUANTITY = 3020 SQ FT  
TEMPORARY SHORING  
FROM STA. 45+00 -L-, 1' RT  
TO STA. 47+00 -L-, 1' RT



CUT SECTION I  
STA. 41+00 -L- I'

(1) QUANTITY = 3020 SQ FT  
TEMPORARY SHORING  
FROM STA. 45+00 -L-, 6' LT  
TO STA. 47+00 -L-, 6' LT



STA. 10+05 -Y5-  
BEGIN CONSTRUCTION

STA. 47+33 -L-  
TO BE REMOVED WHEN  
SECTION A IS COMPLETE TO  
ALLOW SECTION B  
TO BE CONSTRUCTED

STA. 47+25 -L-  
END PORTABLE  
CONCRETE BARRIER  
END MI

SR 4009  
(BENTCREEK DR)

STA. 47+94 -L-  
STA. 48+52 -L-  
STA. 49+14 -L-

MATCHLINE STA. 49+50 -L-  
(SEE SHEET TCP-18)



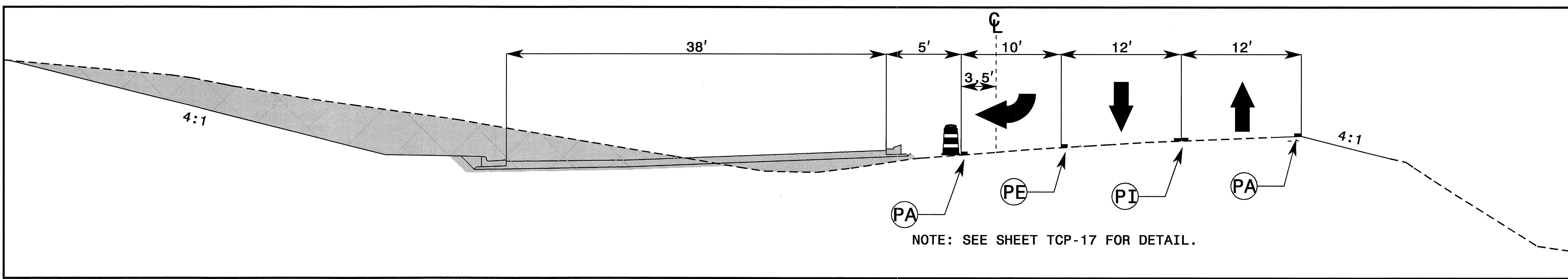
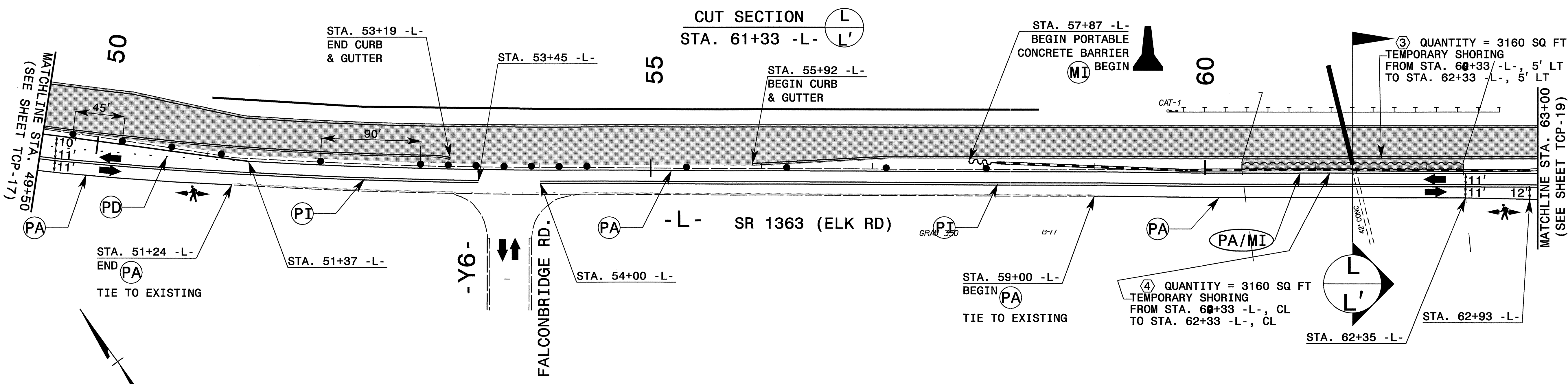
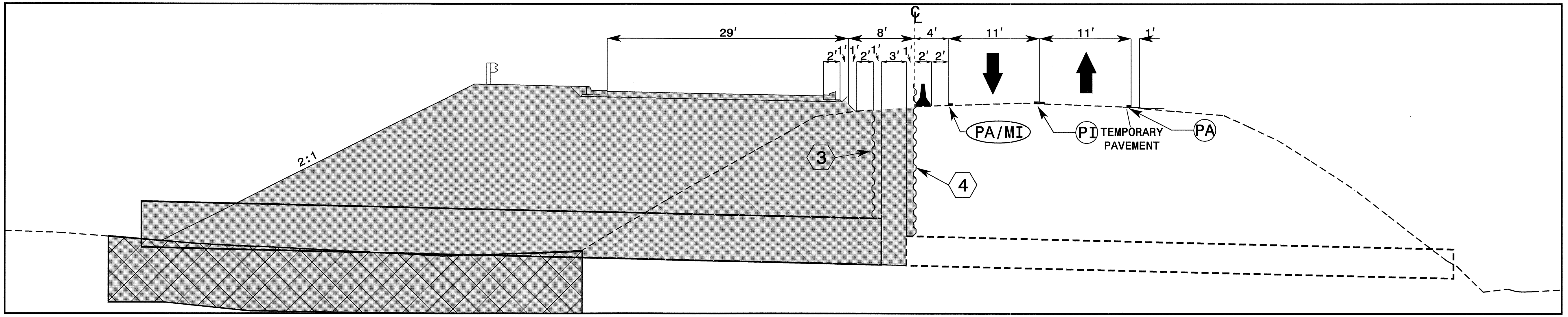
- (#) SEE SHEET TCP-2A FOR TEMPORARY SHORING DATA
- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

|                  |  |           |  |
|------------------|--|-----------|--|
| SCALE: NONE      |  | REVISIONS |  |
| DATE: 12/08      |  |           |  |
| DWG. BY: DAH     |  |           |  |
| DESIGN BY: DAH   |  |           |  |
| REVIEWED BY: JWW |  |           |  |

05-JAN-2009 07:30 \\spfs\1\ipproj\projects-u\3849\traffic\tr\affico\tr\tr\phase2\U-3849\_TC\_P11\I.L.dgn  
 andy\es AT 12:24:58





- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA   ↗ : QD   ↕ : QG
- ↘ : QB   ↙ : QE
- ↔ : QC   ↔ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL

- CUT SECTION K**  
STA. 48+50 -L- K'
- (#) SEE SHEET TCP-2A FOR TEMPORARY SHORING DATA
  - FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
  - TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

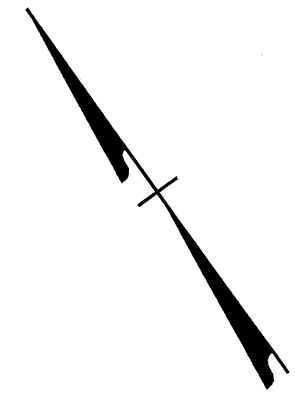
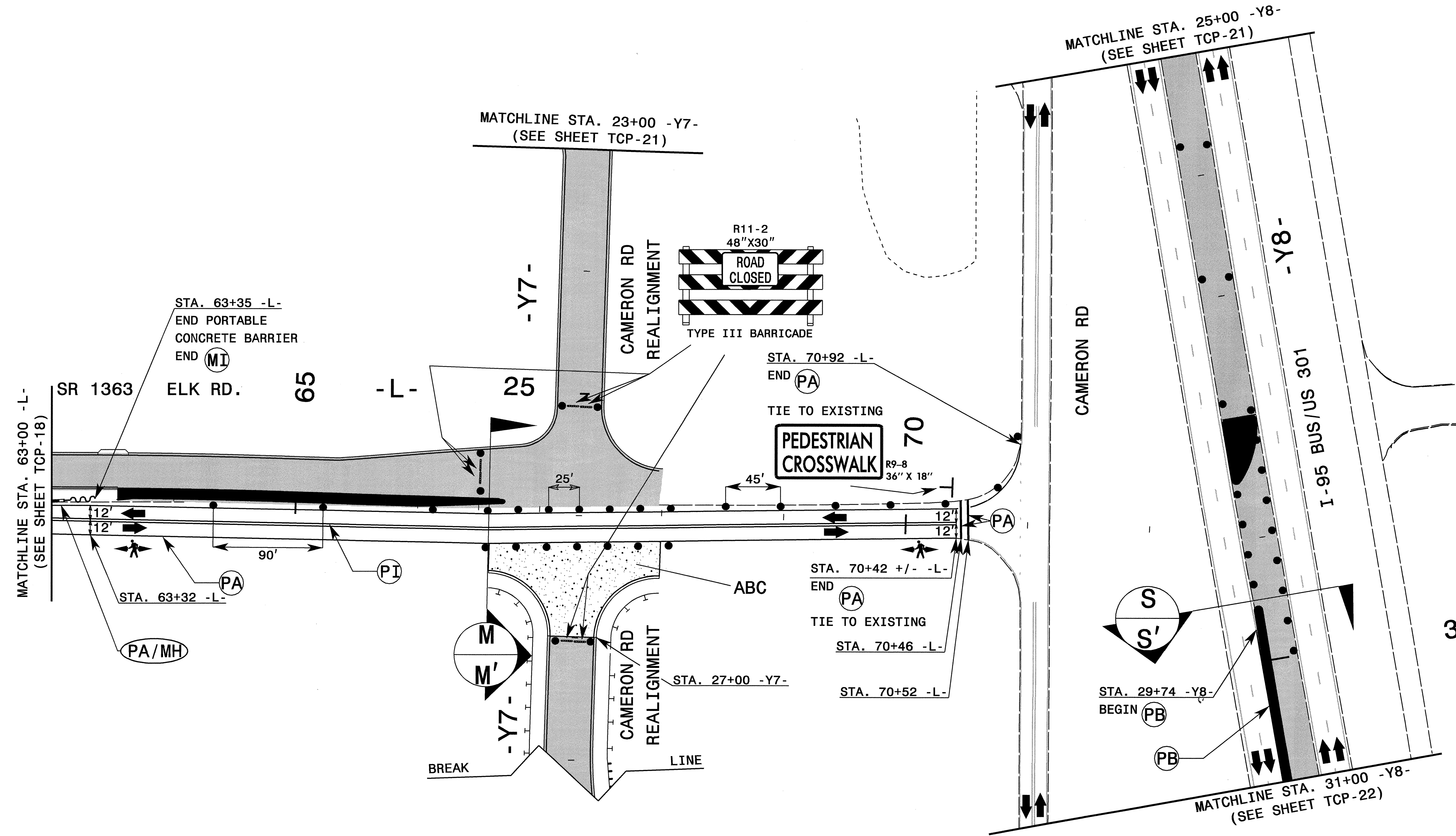
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

SEAL

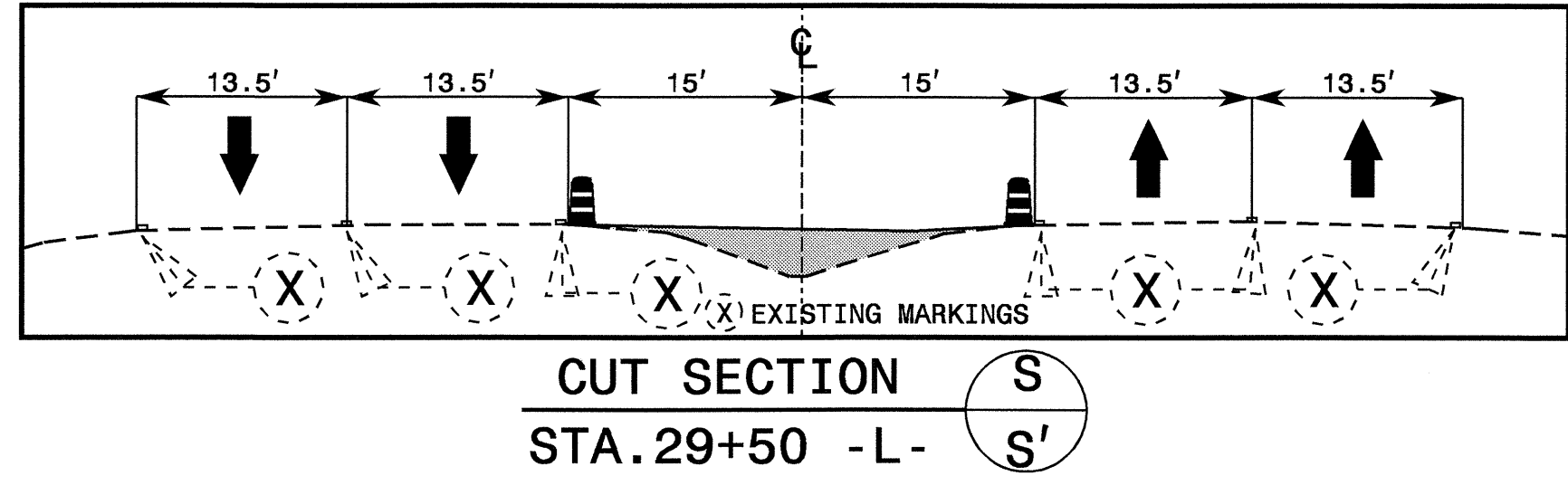
|                        |           |
|------------------------|-----------|
| <b>PHASE II DETAIL</b> |           |
| SCALE: NONE            | REVISIONS |
| DATE: 12/08            |           |
| DWG. BY: DAH           |           |
| DESIGN BY: DAH         |           |
| REVIEWED BY: JWW       |           |

05-JAN-2009 07:30 (isp-03) \\p\projects-u\3849\traffic\control\tcp\phase2\U-3849\_TC-TCP\_Phil\_18.dgn  
 chdps AT WZTC24438





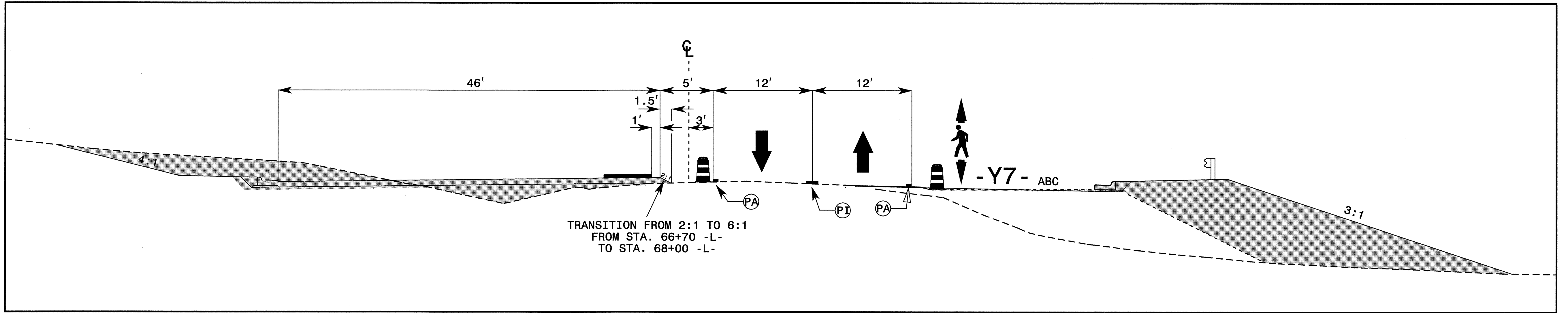
- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↪ : QA    ↪ : QD    ↪ : QG
- ↪ : QB    ↪ : QE
- ↪ : QC    ↪ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL



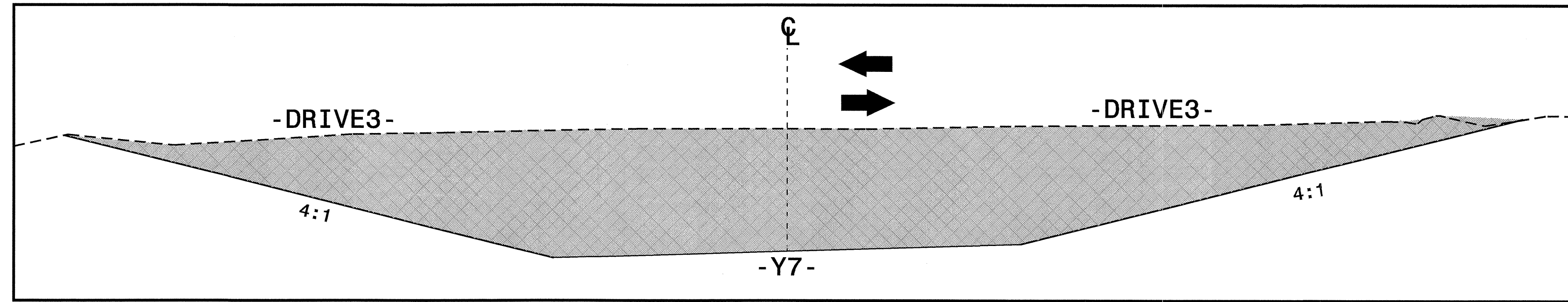
- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

|                  |       |                        |           |
|------------------|-------|------------------------|-----------|
| APPROVED:        | DATE: | <b>PHASE II DETAIL</b> |           |
|                  | 12/08 |                        |           |
| SCALE: NONE      |       |                        | REVISIONS |
| DATE: 12/08      |       |                        |           |
| DWG. BY: DAH     |       |                        |           |
| DESIGN BY: DAH   |       |                        |           |
| REVIEWED BY: JWW |       |                        |           |

05-JAN-2009 07:30 (SPR-0) \\tipprojects-u3849\traffic\trafficcontrol\tcp\phase2\U-3849\_TC-TCP\_Phil\_19.dgn  
 D:\05-01-08\07124738  
 chg99s AT WZTC24738



CUT SECTION  $\overline{M-M'}$   
 STA. 66+59 -L-  
 (SEE SHEET TCP-19 FOR DETAIL)



CUT SECTION  $\overline{N-N'}$   
 STA. 22+50 -Y7-  
 (SEE SHEET TCP-21 FOR DETAIL)

05-JAN-2009 07:23 ispc-01\p\projects-u\3849\traffic\trafficcontrol\top\phase2\U-3849\_TC-TCP\_Phil\_20.dgn  
 chadys AT MZ 10244738

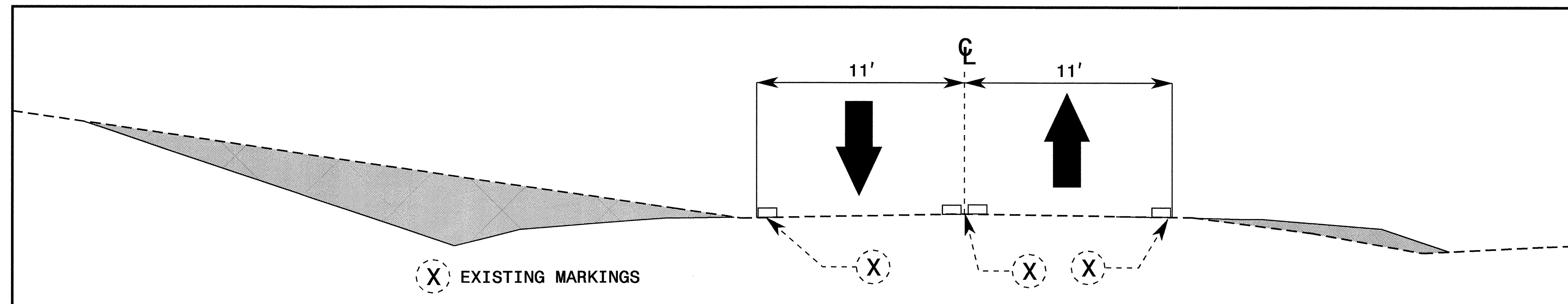
|                  |             |  |           |
|------------------|-------------|--|-----------|
| APPROVED: _____  | DATE: _____ | <b>PHASE II CUT SECTIONS<br/>M-M' AND N-N'</b> |           |
|                  |             |  |           |
|                  |             | DATE: 12/08                                    | REVISIONS |
| DESIGN BY: DAH   |             |  |           |
| REVIEWED BY: JWW |             |  |           |



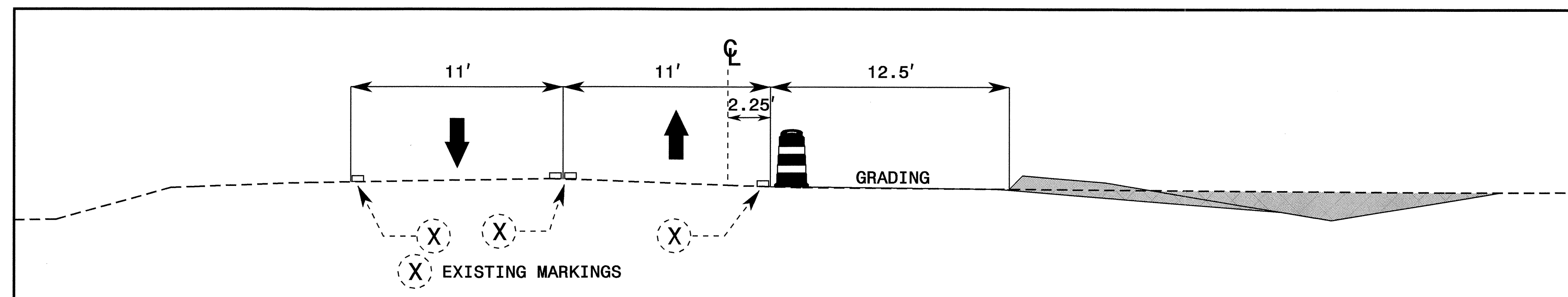




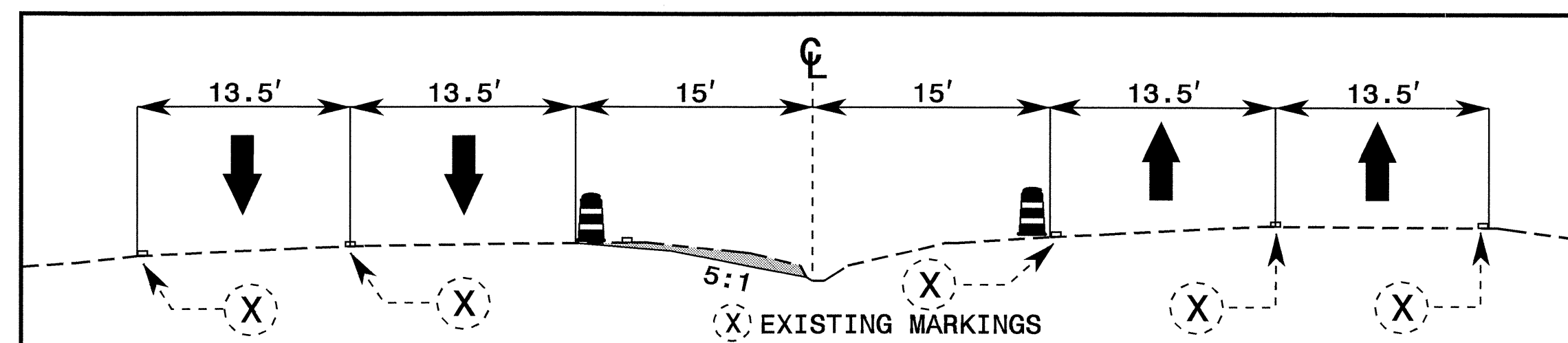




**CUT SECTION** Q  
**STA. 11+50 -Y7REVCONN2-** Q'  
 (SEE SHEET TCP-22 FOR DETAIL)

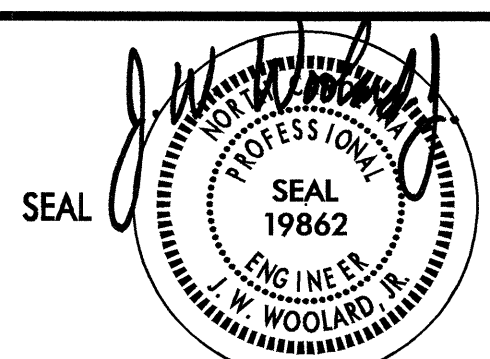



**CUT SECTION** R  
**STA. 36+00 -Y7REV-** R'  
 (SEE SHEET TCP-22 FOR DETAIL)



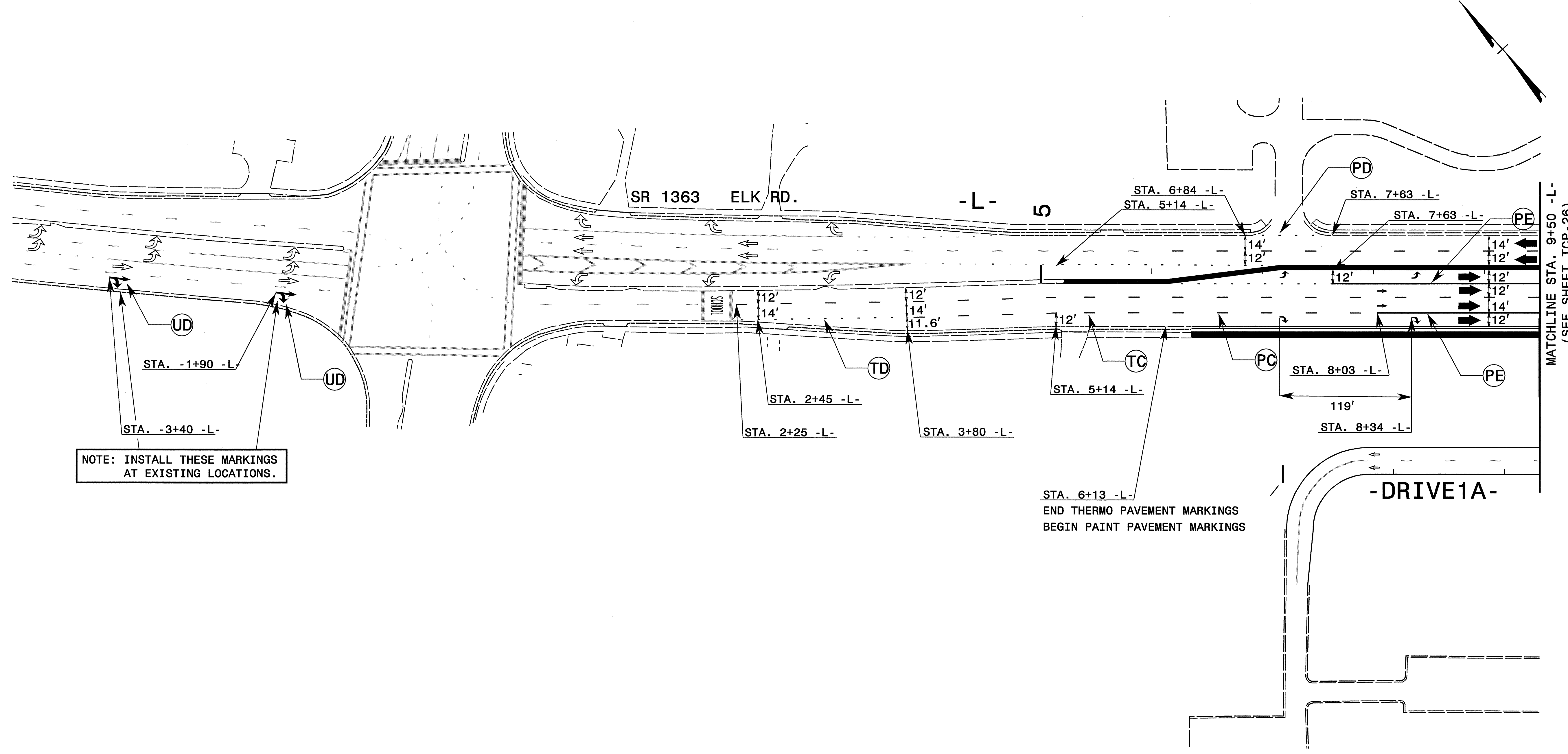
**CUT SECTION** T  
**STA. 36+00 -Y8-** T'  
 (SEE SHEET TCP-22 FOR DETAIL)

05 JAN 2009 07:29  
 C:\p01\scf\st001\U-3849\traffic\control\phase2\U-3849\_TC\_TCP\_Phill\_23.dgn  
 ansys - AT WZ12244738

|   |   |           |
|---|---|-----------|
| APPROVED: _____ DATE: _____   | <b>PHASE II CUT SECTIONS</b><br>Q-Q', R-R', AND T-T'                                  |           |
|  |   |           |
| SCALE: NONE   |  | REVISIONS |
| DATE: 12/08   |   |           |
| DWG. BY: DAH  |   |           |
| DESIGN BY: DAH  |   |           |
| REVIEWED BY: JWV  |   | CADD FILE |







NOTE: INSTALL THESE MARKINGS AT EXISTING LOCATIONS.

STA. 6+13 -L-  
END THERMO PAVEMENT MARKINGS  
BEGIN PAINT PAVEMENT MARKINGS

- : PROPOSED PAVEMENT MARKING LINE
- - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↕ : QG
- ↘ : QB    ↙ : QE
- ↑ : QC    ↓ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL

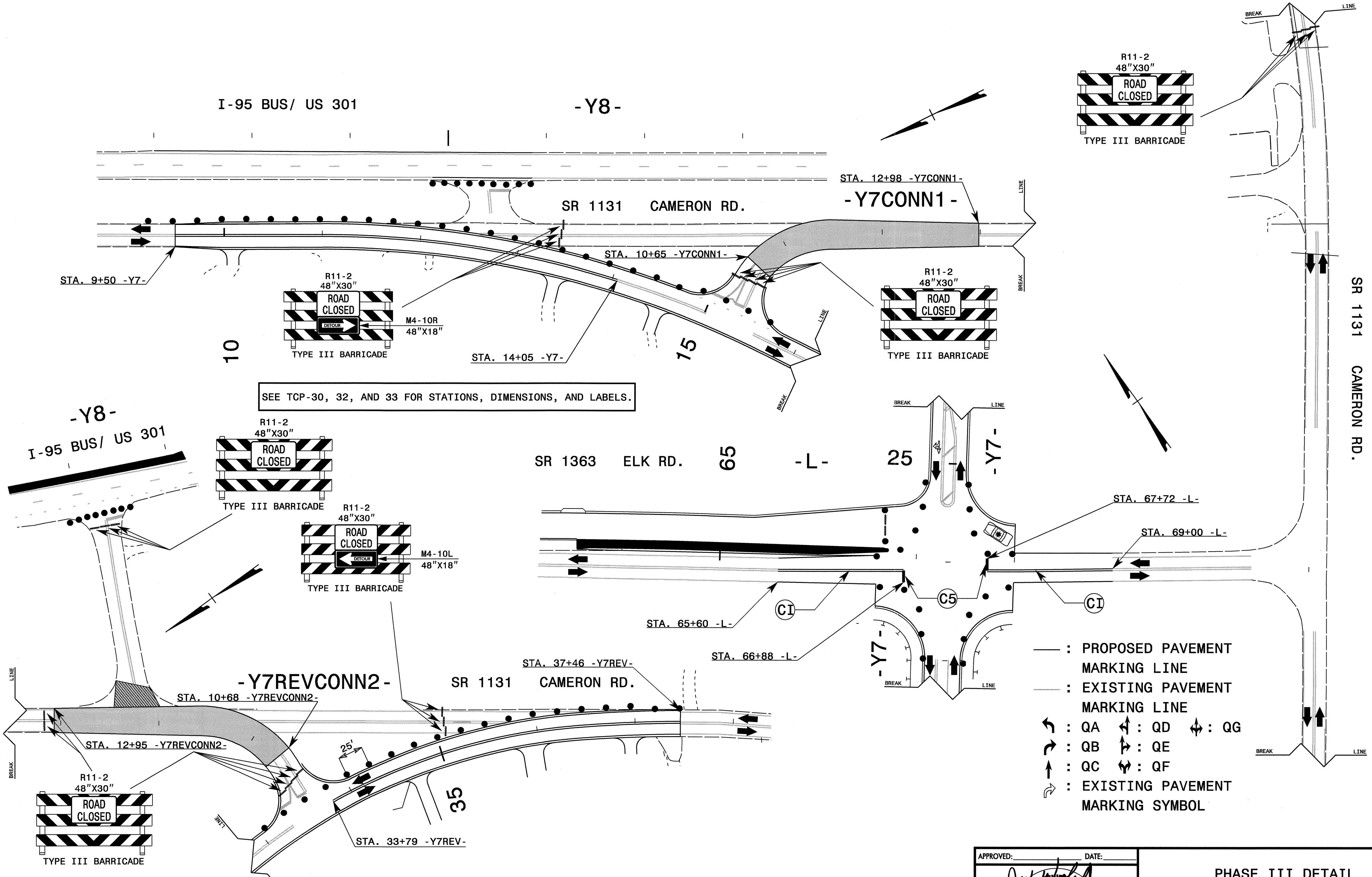
- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

05-JAN-2009 07:28 \\dot\grs\p\proj\1363\phase3\U-3849\tr\traffic\control\tr\phase3\U-3849\_TC\_TCP\_Phill\_25.dgn

|  |                         |  |           |             |  |              |  |                |  |                  |  |  |  |
|--|-------------------------|--|-----------|-------------|--|--------------|--|----------------|--|------------------|--|--|--|
| APPROVED: _____ DATE: _____  | <b>PHASE III DETAIL</b> |  |           |             |  |              |  |                |  |                  |  |  |  |
|  |                         |  |           |             |  |              |  |                |  |                  |  |  |  |
| <table border="1"> <tr> <td>SCALE: NONE</td> <td rowspan="4" style="text-align: center;"> </td> <td>REVISIONS</td> </tr> <tr> <td>DATE: 12/08</td> <td></td> </tr> <tr> <td>DWG. BY: DAH</td> <td></td> </tr> <tr> <td>DESIGN BY: DAH</td> <td></td> </tr> <tr> <td>REVIEWED BY: JWW</td> <td></td> <td></td> </tr> </table> | SCALE: NONE             |  | REVISIONS | DATE: 12/08 |  | DWG. BY: DAH |  | DESIGN BY: DAH |  | REVIEWED BY: JWW |  |  |  |
| SCALE: NONE  |                         |  | REVISIONS |             |  |              |  |                |  |                  |  |  |  |
| DATE: 12/08  |                         |  |           |             |  |              |  |                |  |                  |  |  |  |
| DWG. BY: DAH   |                         |  |           |             |  |              |  |                |  |                  |  |  |  |
| DESIGN BY: DAH   |                         |  |           |             |  |              |  |                |  |                  |  |  |  |
| REVIEWED BY: JWW   |                         |  |           |             |  |              |  |                |  |                  |  |  |  |







SEE TCP-30, 32, AND 33 FOR STATIONS, DIMENSIONS, AND LABELS.

- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↘ : QG
- ↙ : QB    ↖ : QE
- ↑ : QC    ↓ : QF
- ↻ : EXISTING PAVEMENT MARKING SYMBOL



- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

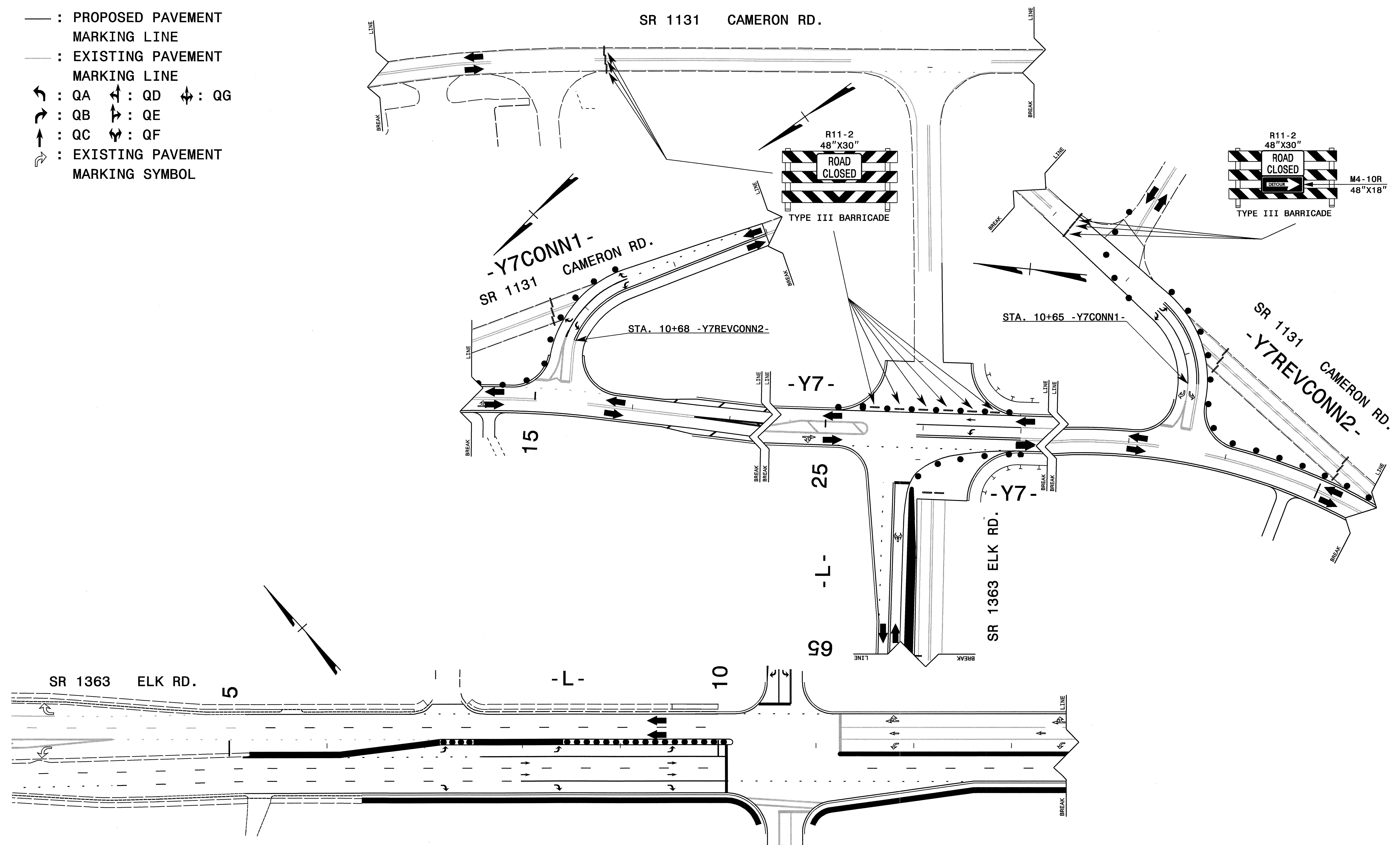
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

**PHASE III DETAIL**

|                  |  |           |
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| SCALE: NONE      |  | REVISIONS |
| DATE: 12/08      |  |           |
| DWG. BY: DAH     |  |           |
| DESIGN BY: DAH   |  |           |
| REVIEWED BY: JWW |  | CADD FILE |

05-JAN-2009 07:27  
 C:\Users\jwwoolard\Documents\Projects\U-3849\Traffic\TrafficControl\Tcp\phase3\U-3849\_TC\_TCP\_PIII\_25B.dgn  
 dng905 AT 12/24/08

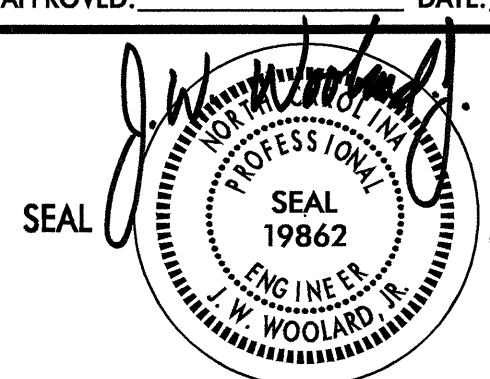
- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↘ : QG
- ↙ : QB    ↖ : QE
- ↕ : QC    ↕ : QF
- ↷ : EXISTING PAVEMENT MARKING SYMBOL



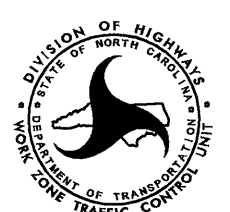
SEE TCP-30, 32, AND 33 FOR STATIONS, DIMENSIONS, AND LABELS.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

SEAL  1/5/09

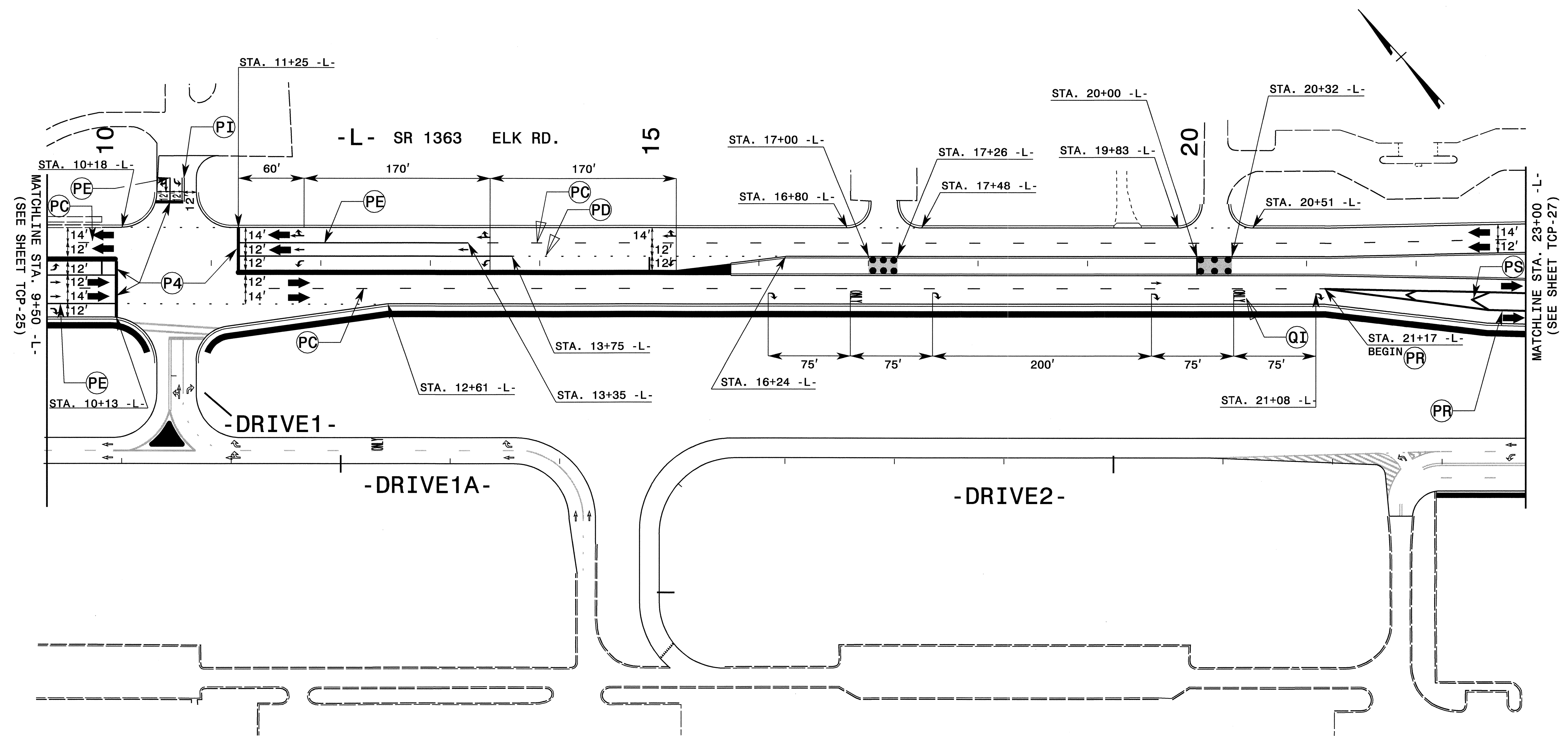
**PHASE III DETAIL**

|                  |   |           |
|------------------|---|-----------|
| SCALE: NONE      |  | REVISIONS |
| DATE: 12/08      |   |           |
| DWG. BY: DAH     |   |           |
| DESIGN BY: DAH   |   |           |
| REVIEWED BY: JWW |   |           |

CADD FILE

05-JAN-2009 07:27 NSP-01\p\projects-u\3849\traffic\trafficcontrol\top\phase3\U-3849\_TC-TCP\_Phill\_25C.dgn  
 \DOT\GIS\DATA\PROJECTS\U-3849\Traffic\TrafficControl\Top\Phase3\U-3849\_TC-TCP\_Phill\_25C.dgn  
 gncpys AT WZ TC 24738



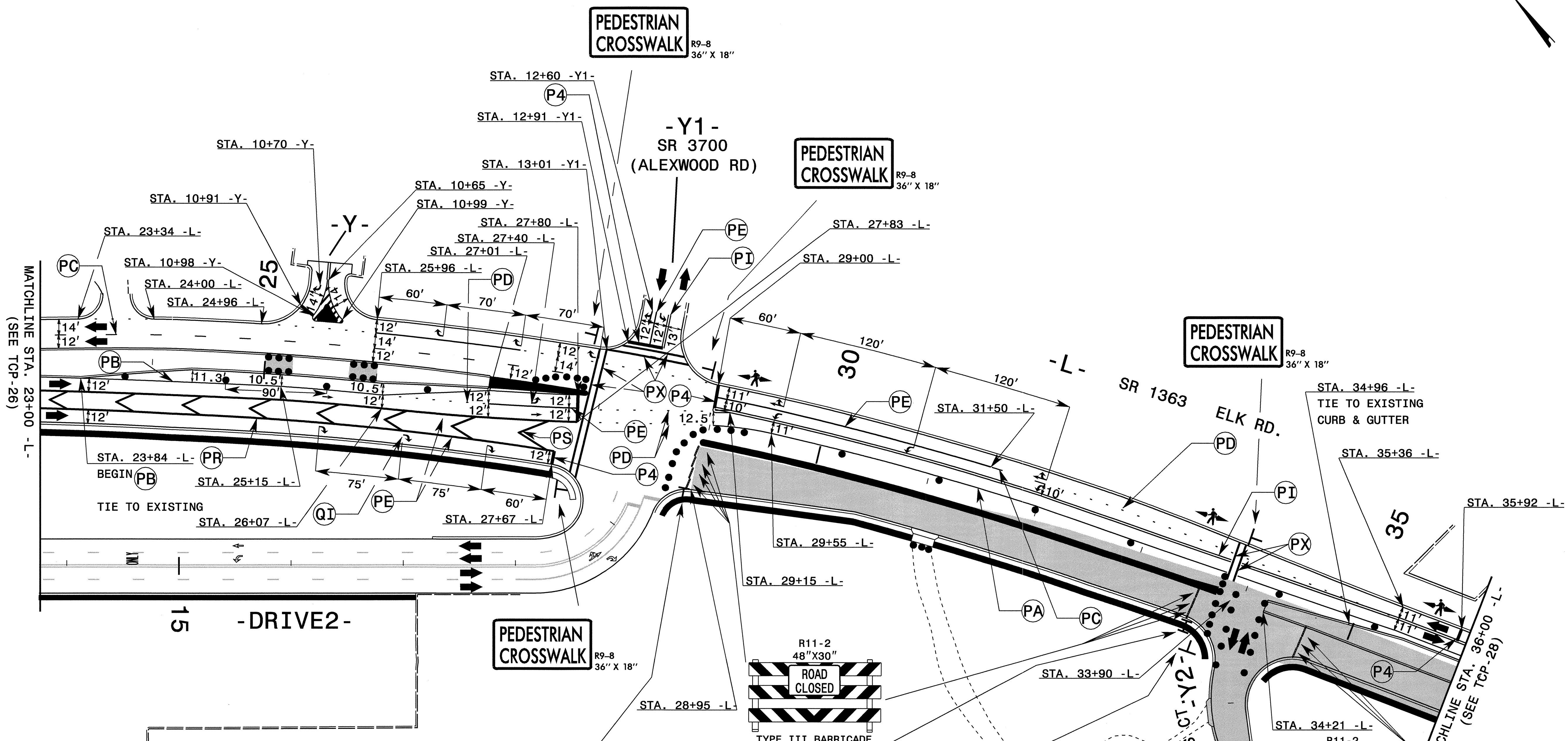
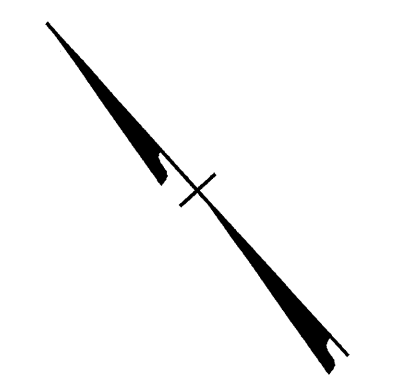


- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↪ : QA    ↩ : QD    ↕ : QG
- ↪ : QB    ↩ : QE
- ↪ : QC    ↩ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

05-JAN-2009 07:49  
 \\dot\dfsroot\01\NSP\9\hipprojects\U-3849\traffic\trafficcontrol\top\phase3\U-3849-TC-TCP-PhilL26.dgn  
 gmsyes AT WZ124788

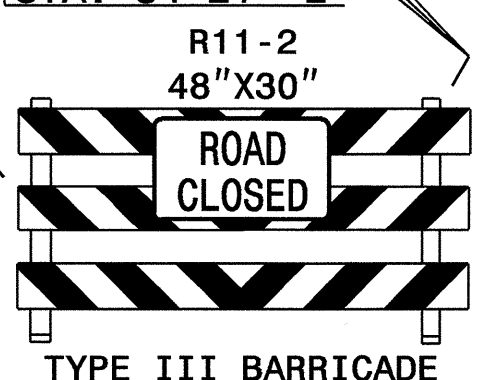
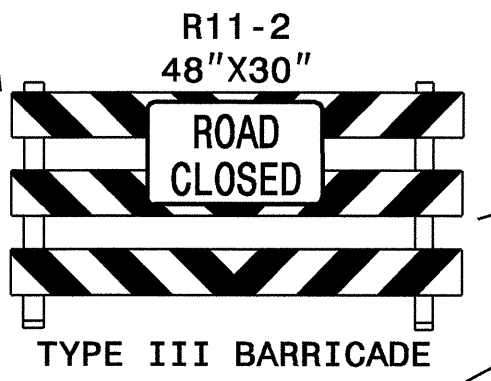
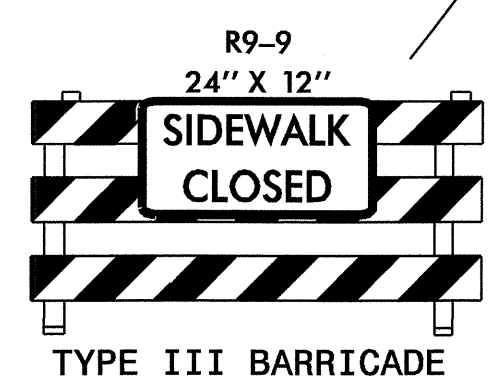
|                  |                |                         |           |
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| APPROVED:        | DATE:          | <b>PHASE III DETAIL</b> |           |
|                  | 1/5/09         |                         |           |
| SCALE: NONE      | DATE: 12/08    |                         | REVISIONS |
| DWG. BY: DAH     | DESIGN BY: DAH |                         |           |
| REVIEWED BY: JWW |                |                         |           |
|                  |                |                         |           |



- : PROPOSED PAVEMENT MARKING LINE
- : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↘ : QG
- ↙ : QB    ↘ : QE
- ↔ : QC    ↕ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL

CROSSWALK LINES ARE 6' APART.  
CROSSWALKS WILL BE NO LESS THAN 4' FROM STOPBARS.

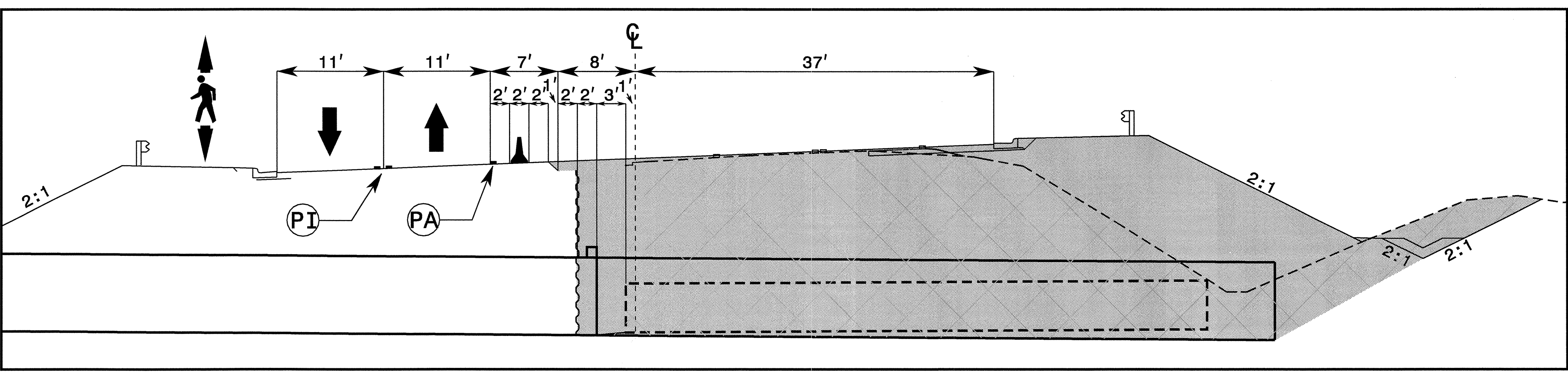
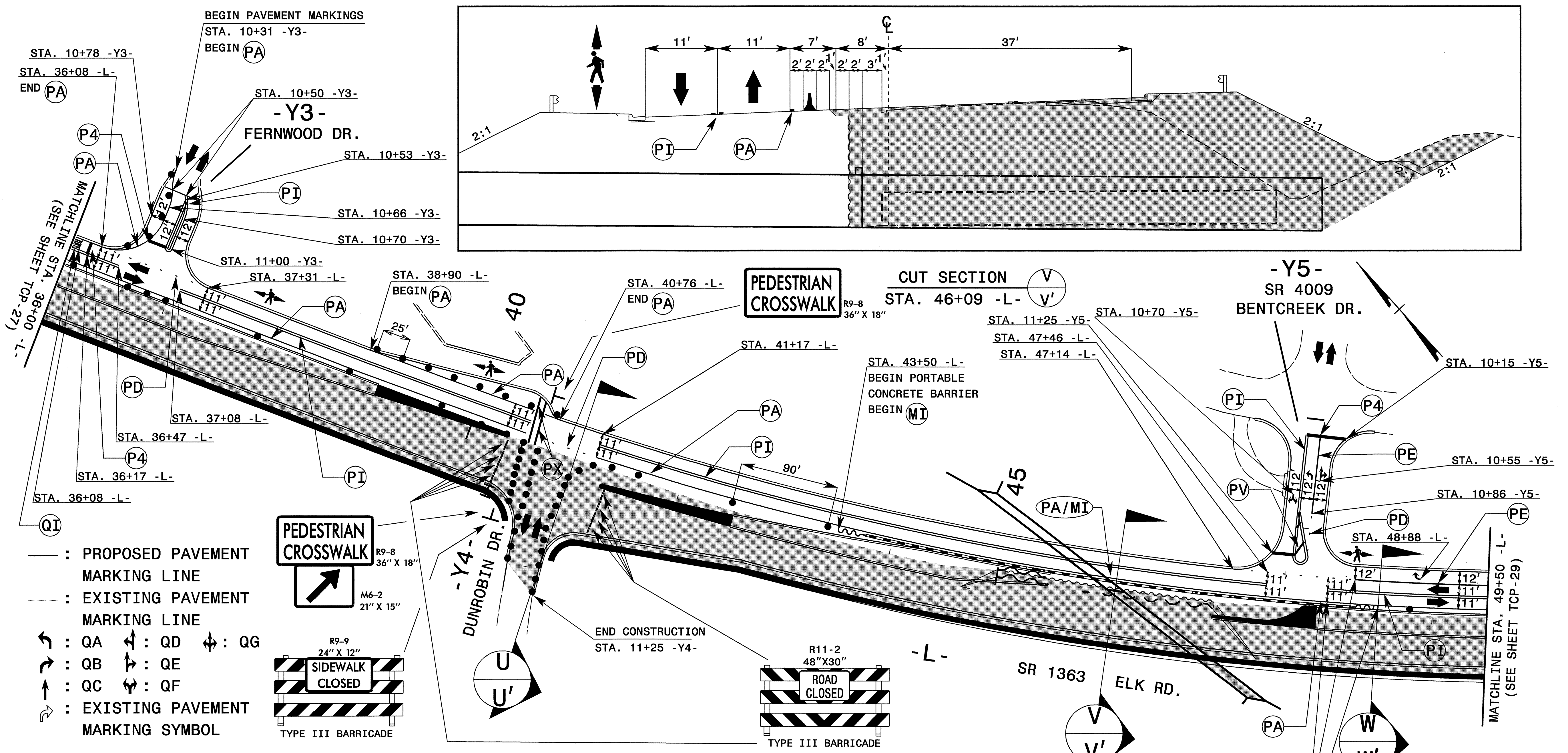
- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A.
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01



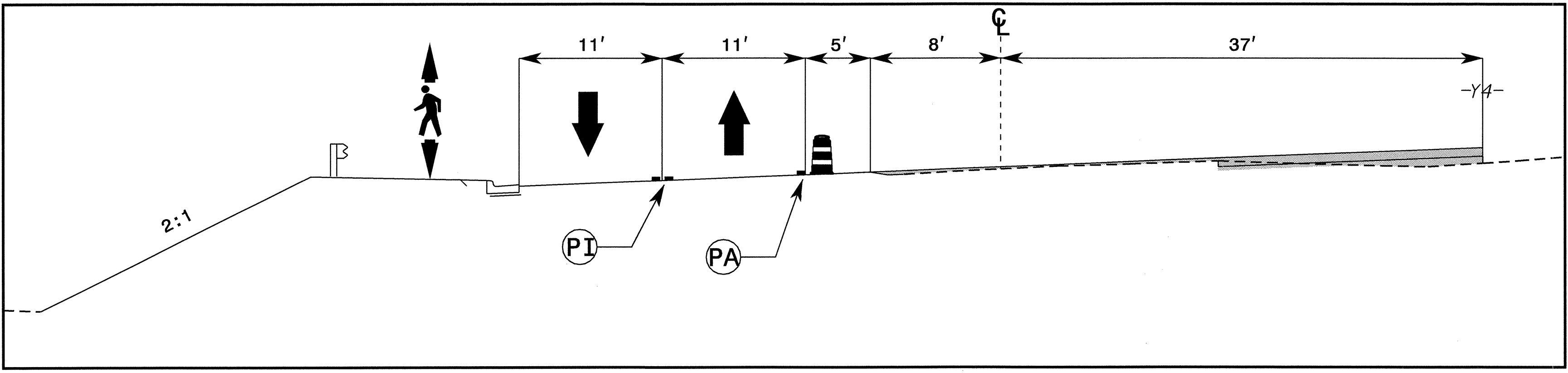
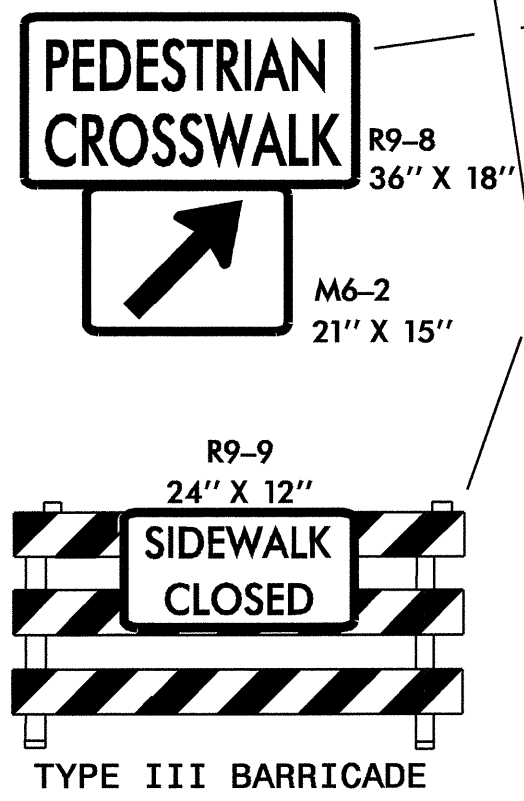
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| DATE: 12/08   |              |                         |  |             |  |             |              |                |   |  |           |  |
| DWG. BY: DAH  |              |                         |  |             |  |             |              |                |   |  |           |  |
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| REVISIONS   |              |                         |  |             |  |             |              |                |   |  |           |  |
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| REVIEWED BY: JWW  |              | CADD FILE               |  |             |  |             |              |                |   |  |           |  |

05-JAN-2009 07:26  
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 analysis AT 12/10/2008 10:38





- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↘ : QG
- ↙ : QB    ↖ : QE
- : QC    ↗ : QF
- ↪ : EXISTING PAVEMENT MARKING SYMBOL



- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

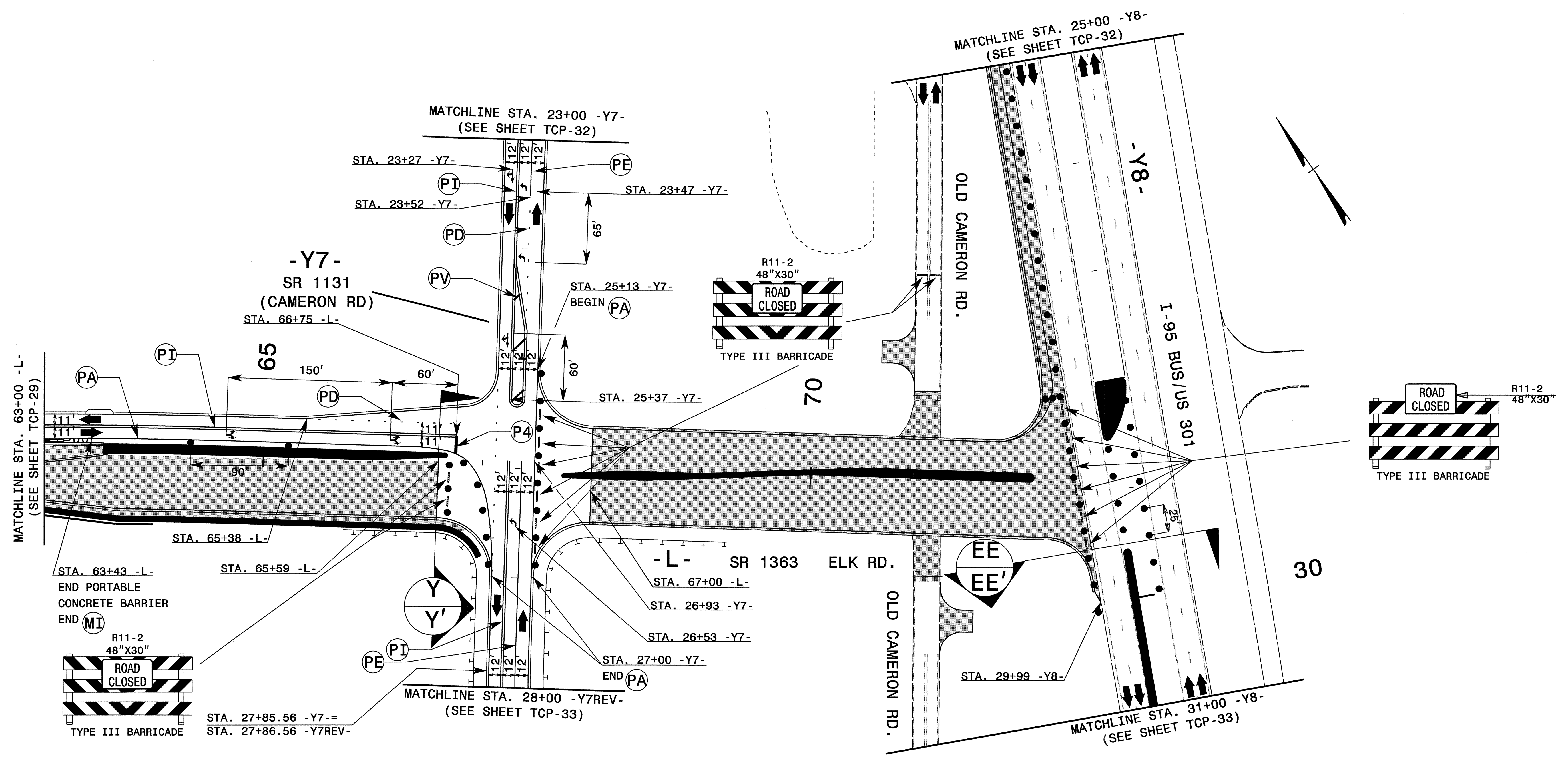
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| SCALE: NONE      | DATE: 12/08    |                         | REVISIONS |
| DWG. BY: DAH     | DESIGN BY: DAH |                         |           |
| REVIEWED BY: JWW |                |                         |           |

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 AT: MZ1024438

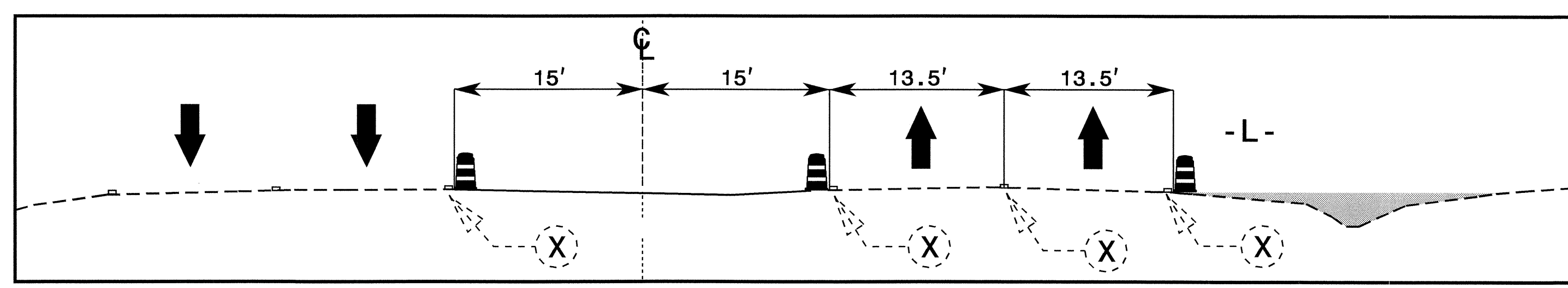








- : PROPOSED PAVEMENT MARKING LINE
- - - : EXISTING PAVEMENT MARKING LINE
- ↖ : QA    ↗ : QD    ↕ : QG
- ↘ : QB    ↙ : QE
- ↔ : QC    ↔ : QF
- : EXISTING PAVEMENT MARKING SYMBOL



CUT SECTION  
STA. 29+50 -Y8- EE EE'

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

|                  |              |                         |           |
|------------------|--------------|-------------------------|-----------|
| APPROVED:        | DATE: 1/5/09 | <b>PHASE III DETAIL</b> |           |
| SCALE: NONE      | DATE: 12/08  |                         |           |
| DESIGN BY: DAH   |              |                         | REVISIONS |
| REVIEWED BY: JWW |              |                         | CADD FILE |

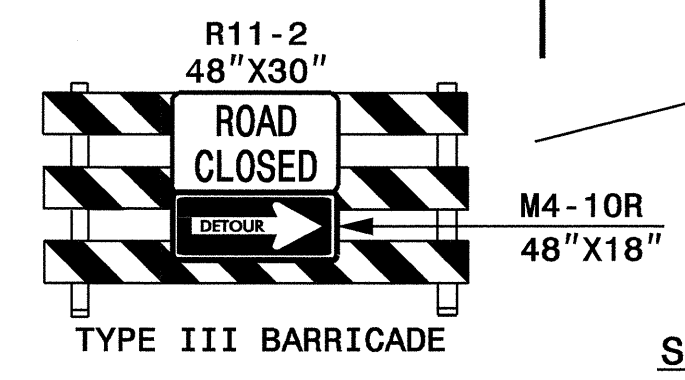
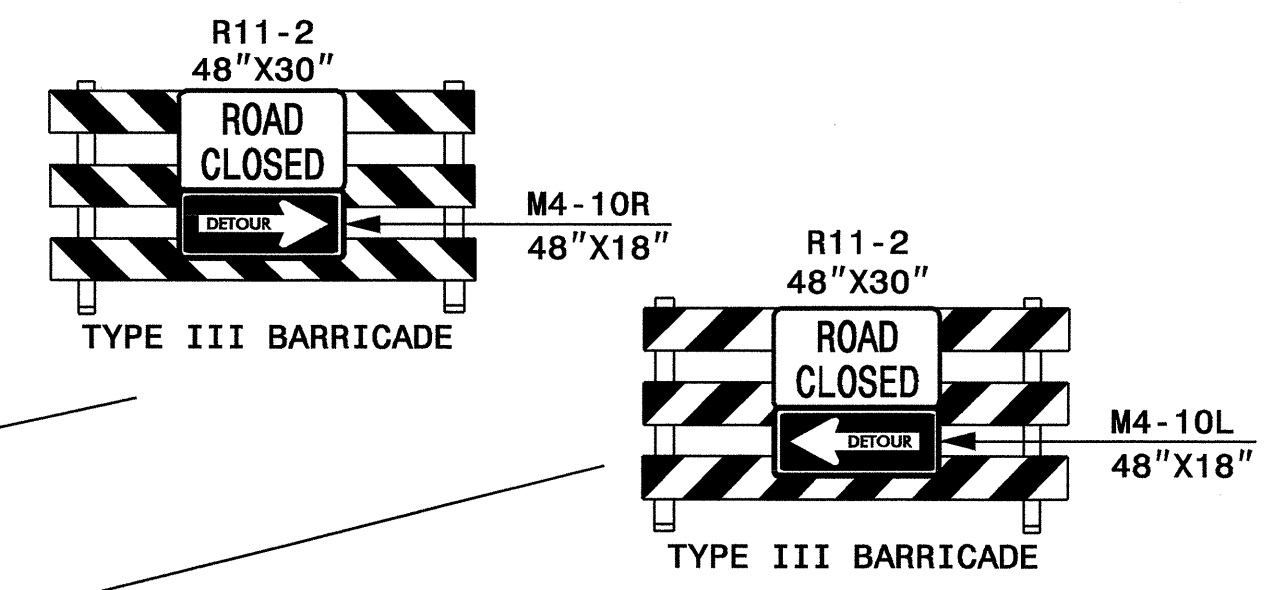
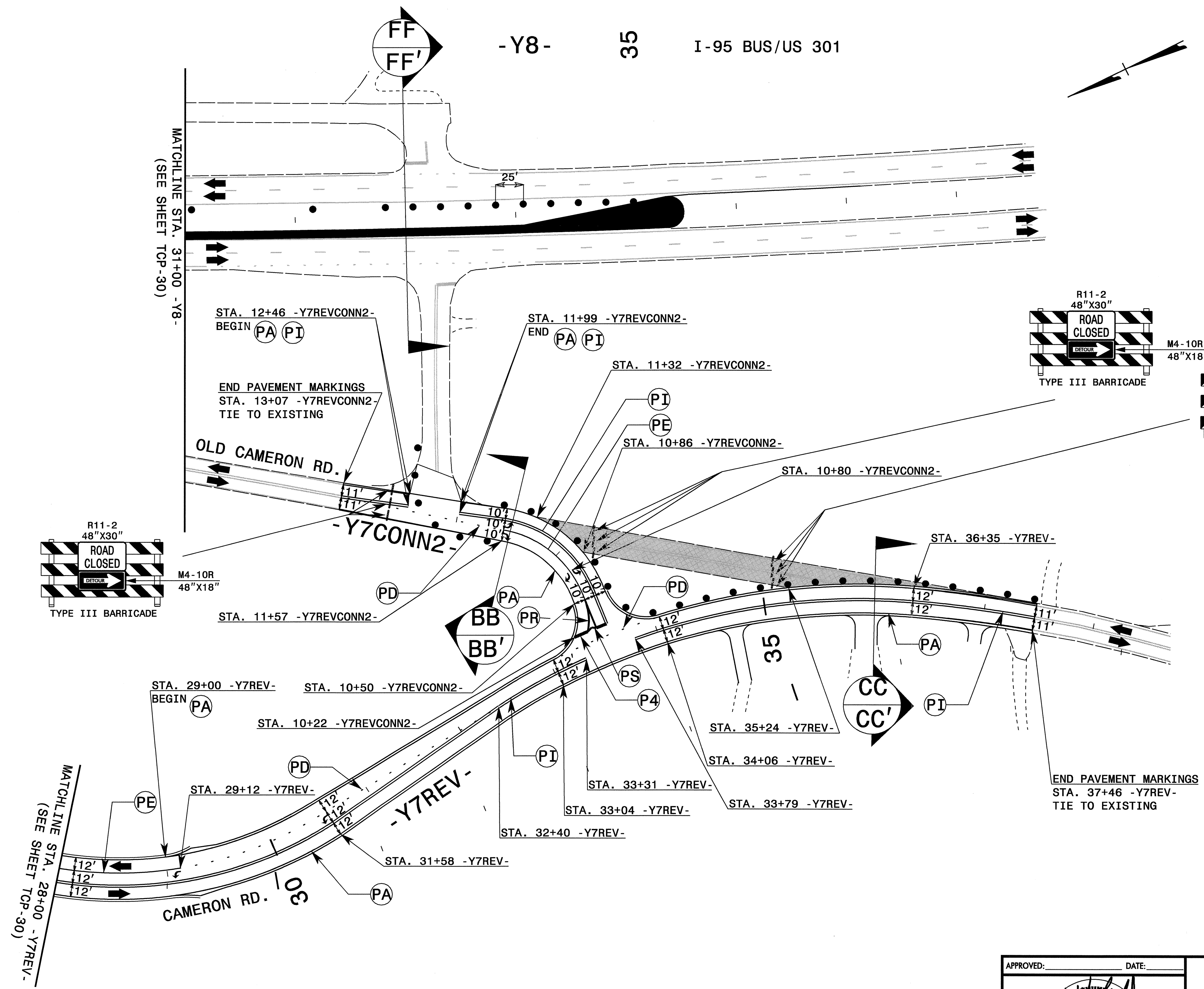
05-JAN-2009 07:25  
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 AT: MZ1244738







— : PROPOSED PAVEMENT MARKING LINE  
 - - - : EXISTING PAVEMENT MARKING LINE  
 ↗ : QA    ↖ : QD    ↕ : QG  
 ↘ : QB    ↗ : QE  
 ↙ : QC    ↘ : QF  
 ↻ : EXISTING PAVEMENT MARKING SYMBOL

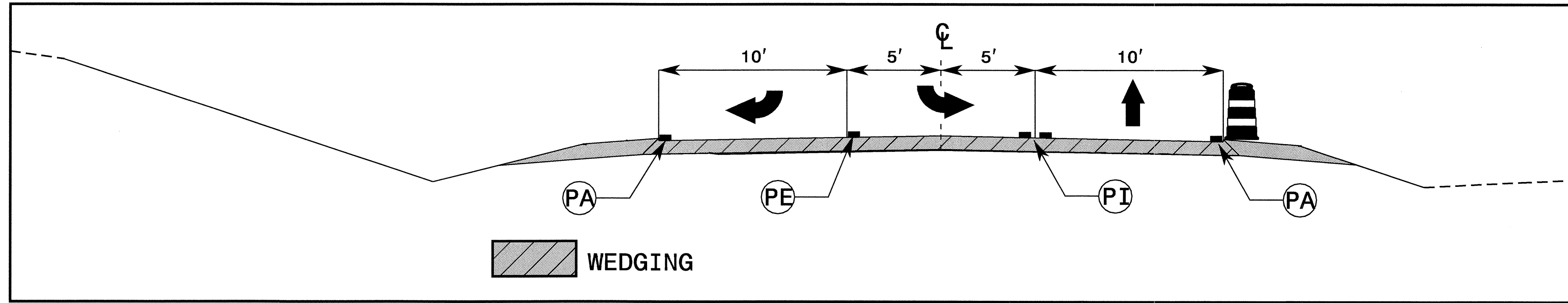


- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-1A
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

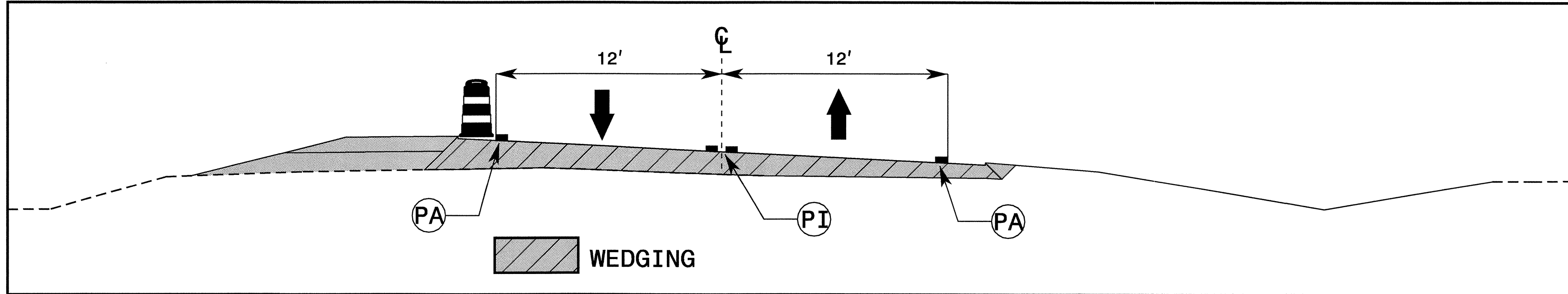
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| SCALE: NONE                 | DATE: 12/08             | <table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table> | REVISIONS |  |  |  |  |  |  |  |
| REVISIONS                   |                         |  |           |  |  |  |  |  |  |  |
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| DWG. BY: DAH                | DESIGN BY: DAH          |  |           |  |  |  |  |  |  |  |
| REVIEWED BY: JWW            |                         |  |           |  |  |  |  |  |  |  |

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 \ns\projects-u\3849\tr\aff\control\top\phase3\U-3849\_TC\_TCP\_PIII\_33.dgn  
 gmsys - AT 12/22/08

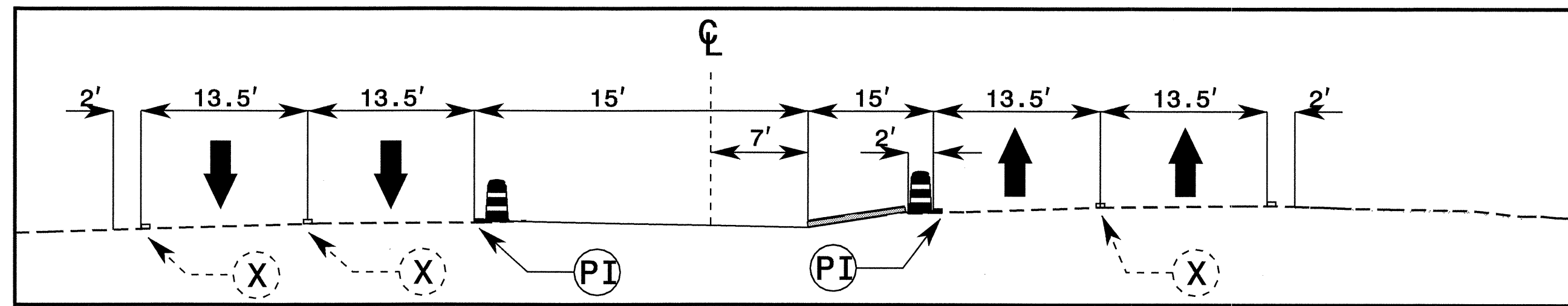




CUT SECTION **BB**  
**STA. 11+50 - Y7REVCONN2 - BB'**  
 (SEE SHEET TCP-33 FOR DETAIL)



CUT SECTION **CC**  
**STA. 36+00 - Y7REV - CC'**  
 (SEE SHEET TCP-33 FOR DETAIL)



CUT SECTION **FF**  
**STA. 33+00 - Y8 - FF'**  
 (SEE SHEET TCP-33 FOR DETAIL)

05-JAN-2009 07:23  
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|------------------|-------------|---|-----------|
| APPROVED: _____  | DATE: _____ | <b>PHASE III DETAIL</b><br><b>CUT SECTIONS DD-DD',</b><br><b>EE-EE', &amp; HH-HH'</b> |           |
|                  |             |   |           |
|                  |             | DATE: 12/08   | REVISIONS |
| DWG. BY: DAH     |             |   |           |
| DESIGN BY: DAH   |             |   |           |
| REVIEWED BY: JWW |             |   | CADD FILE |





