STATE PROJECT REFERENCE NO.	SHEET NO.
R-2417C	TCP-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

LEE COUNTY

R-2417C

TIP PROJECT:

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-PROJECT SERVICES UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - INTERCHANGES
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS
1264.02	PLACEMENT OF OBJECT MARKERS
1267.01	FLEXIBLE DELINEATOR INSTALLATION
1267.02	FLEXIBLE DELINEATOR SPACING
1267.03	FLEXIBLE DELINEATOR-INTERCHANGES

INDEX OF SHEETS

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT. -------- EXIST. PVMT.
- BASE COURSE
- GRADING
- MILLING
- ONGOING CONSTRUCTION
- REMOVAL OF EXISTING PAVEMENT AND EARTH
- TEMPORARY PAVEMENT
- TEMPORARY SLOPES *DIRECTION OF DOWNWARD SLOPE
- WEDGING
- WORK AREA
- TEMPORARY SIGNAL

TRAFFIC CONTROL DEVICES

- TYPE III BARRICADE
- DRUM
- FLASHING ARROW PANEL (TYPE C)
- STATIONARY SIGN
- PORTABLE SIGN
- CRASH CUSHION
- CHANGEABLE MESSAGE SIGN
- TEMPORARY PORTABLE CONCRETE BARRIER
- TEMPORARY SHORING

APPROVED: J. W. Woolard
DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT

J. S. BOURNE, P.E. — TRAFFIC CONTROL ENGINEER
G. L. GETTIER, P.E. — TRAFFIC CONTROL PROJECT ENGINEER
J. W. WOOLARD, P.E. — TRAFFIC CONTROL PROJECT DESIGN ENGINEER
D. A. HAYES, E.I. — TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

12-AUG-2009 09:13
\\DOT\dfsroot\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase 1\R-2417C_TC_TCP_PH1_TCP_01_TTitle.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-2

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.-Y1- US 421/NC 87 (HORNER BLVD)	SUNDAY THRU SATURDAY 7:00 A.M.-8:00 P.M.

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

ROAD NAME	
1.-Y1- US 421/NC 87 (HORNER BLVD)	SUNDAY THRU SATURDAY 7:00 A.M.-8:00 P.M..

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 8:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CONDUCT SINGLE VEHICLE HAULING AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
1.-Y1- US 421/NC 87 (HORNER BLVD)	SUNDAY THRU SATURDAY 7:00 A.M.-8:00 P.M.

D) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
1.-Y1- US 421/NC 87 (HORNER BLVD)	SUNDAY THRU SATURDAY 7:00 A.M.-8:00 P.M.

E) 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

F) 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.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

H) 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.

I) 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.

J) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

K) DO NOT INSTALL MORE THAN 1 MILE OF LANE CLOSURE ON NC 87 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE OR AS DIRECTED BY THE ENGINEER.

L) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON NC 87.

M) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

N) 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.

O) 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) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

Q) 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.

R) PROVIDE PERMANENT SIGNING.

S) 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.

T) 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.

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

V) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

W) 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.

APPROVED: J.W. Woolard DATE: 3/12/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLARD

PROJECT NOTES

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS — STATE OF NORTH CAROLINA — DEPARTMENT OF TRANSPORTATION — TRAFFIC CONTROL

REVISIONS

CADD FILE

12-AUG-2009 09:13
\\Dot\dfsroot\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase 1\R-2417C_TC_TCP_PH1_TCP_02_GenNotes.dgn
dhayes AT WZTC24738

GENERAL NOTES

X) 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

Y) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER 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.

Z) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

AA) 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

BB) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
1. ALL ROADWAYS	THERMOPLASTIC	PERMANENT RAISED
2. ALL BRIDGE DECKS	PAINT	PERMANENT RAISED

CC) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
1. ALL ROADWAYS	PAINT	TEMPORARY RAISED

DD) 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.

EE) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

FF) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

GG) TRACE THE EXISTING AND PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVAL AND INSTALLATION. PLACE (DRUMS/CONES/TUBULAR MARKERS) TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION.

TEMPORARY / FINAL SIGNALS

HH) NOTIFY THE ENGINEER TWO (2) MONTHS BEFORE A TRAFFIC SIGNAL INSTALLATION BY OTHERS IS REQUIRED.

II) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

MISCELLANEOUS

JJ) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

KK) 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) 500 FT AND 500 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

APPROVED: J.W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J. W. WOOLARD, JR.

PROJECT NOTES

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

PHASING

PHASE I

STEP 1) INSTALL ALL ADVANCE WARNING SIGNING. IF WORK DOES NOT BEGIN WITHIN THREE (3) DAYS OF SIGN INSTALLATION, COVER OR REMOVE ADVANCE WARNING SIGNING (SEE TCP-54).

NOTE: PHASE I, STEPS 2 THRU 5 SHALL BE COMPLETED IN 120 MANDAYS. SEE SPECIAL PROVISIONS FOR LIQUIDATED DAMAGES.

STEP 2) USING ROADWAY STANDARD DRAWING (RSD) 1101.02 CONSTRUCT THE FOLLOWING:
- INSTALL TEMPORARY PAVEMENT AND WEDGING AS SHOWN ON TCP-5.
- -Y1- LEFT GRADING, BASE COURSE, AND CURB AND GUTTER AS SHOWN ON TCP-5 AND 6 FROM STA. 21+65 -Y1- TO STA. 34+59 -Y1-.
  -Y- FROM STA. 60+90 -Y- TO -Y1- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE.
- BEGIN TEMPORARY SIGNAL INSTALLATION (SEE TCP-8)

STEP 3) USING ROADWAY STANDARD DRAWING (RSD) 1101.02 INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS, REMOVE CONFLICTING MARKINGS AND MARKERS, AND SHIFT TRAFFIC ONTO THE TEMPORARY PATTERN AT THE FOLLOWING LOCATIONS (SEE TCP-7 THRU 12):
- -Y-
- -Y1-
- -Y3-
- COMPLETE AND ACTIVATE TEMPORARY SIGNALS (SEE TCP-8)

USING RSD 1101.02 REMOVE EXISTING CURB AND GUTTER ON EXISTING -Y1- FROM STA. 19+70 -Y1- TO STA. 20+73 -Y1- AS SHOWN ON TCP-8 AND INSTALL TEMPORARY CURB AND GUTTER ON SAME (SEE CUT SECTION G-G').

USING RSD 1101.02 AS NEEDED, CONSTRUCT UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE, EXISTING PAVEMENT REMOVAL, GRADING, AND/OR CURB AND GUTTER ON THE FOLLOWING (SEE TCP-5 THRU 10):
- -Y1- NORTHBOUND (NB) FROM STA. 13+00 -Y1- TO STA. 17+28 -Y1- AND FROM STA. 30+03 -Y1- TO STA. 35+25 -Y1-
- -Y1- SOUTHBOUND (SB) FROM STA. 13+00 -Y1- TO -Y3- AND FROM STA. 25+63 -Y1- TO STA. 32+41 -Y1-
- -Y2-

USING RSD 1101.02, MILL -Y1- FROM STA. 28+25 -Y1- TO STA. 35+25 -Y1- AS SHOWN ON SHEETS TCP-8 THRU 10.

USING RSD 1101.02, CONSTRUCT CURB AND GUTTER AND WIDENING ON -Y3- FROM -Y1- TO STA. STA. 20+50 -Y3- (SEE TCP-8, 11, & 12)

STEP 4) USING RSD 1101.02 REMOVE THE REMAINING EXISTING AND TEMPORARY CURB AND GUTTER FROM THE EXISTING ISLAND AT THE EXISTING US 421/ NC 87 SPLIT (SEE TCP-5 AND 6), AND WEDGE THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE, INSTALL TEMPORARY PAVEMENT MARKINGS,REVISE TEMPORARY SIGNAL, AND SHIFT TRAFFIC ONTO THE TEMPORARY PATTERN (SEE TCP-13 THRU 16):
- -Y1- FROM STA. 13+00 -Y1- TO STA. 18+07 -Y1- AND FROM STA. 21+00 -Y1- TO STA. 35+25 -Y1-
- -Y3- FROM -Y1- TO STA. 10+95 -Y3-

AWAY FROM TRAFFIC REMOVE THE EXISTING PAVEMENT AS SHOWN ON SHEETS TCP-13 AND 14.

AWAY FROM TRAFFIC INSTALL CURB AND GUTTER AND/OR WEDGE THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-13 THRU 18):
- -Y1- FROM STA. 17+00 -Y1- TO STA. 23+44 -Y1- AND FROM STA. 25+70 -Y1- TO STA. 35+25 -Y1-
- -Y3- FROM STA. 10+95 -Y3- TO STA. 20+50 -Y3-

STEP 5) USING RSD 1101.02 INSTALL MONOLITHIC ISLANDS, THE FINAL LIFT OF SURFACE COURSE, TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (RAISED), AND REVISE TEMPORARY SIGNAL ON -Y-, -Y1-, -Y2-, AND -Y3- AS SHOWN ON SHEETS TCP-19 THRU 22.

NOTE: PHASE I, STEP 6 CAN BE PERFORMED SIMULTANEOUSLY WITH PHASE I, STEPS 2 THRU 5.

STEP 6) USING RSD 1101.02 INSTALL TEMPORARY PAVEMENT ON -Y- FROM STA. 2+40 -Y- TO STA. 16+46 -Y- (SEE SHEET TCP-30).

USING RSD 1101.02 AS NEEDED INSTALL TEMPORARY CONCRETE BARRIER ON -Y1- AS SHOWN ON TCP-23 THRU 25 AND ON -Y AS SHOWN ON TCP-28 THRU 30.

AWAY FROM TRAFFIC BEGIN CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE ON THE FOLLOWING (SEE SHEETS TCP-23 THRU 30):
- -Y- WESTBOUND (WB) FROM STA. 16+50 -Y- TO STA. 56+84 -Y- INCLUDING CULVERTS LOCATED AT STA. 19+50 -Y- AND STA. 20+00 -Y-
- -I9FLY- FROM STA. 6+00 -I9FLY- TO STA. 28+00 -I9FLY- INCLUDING STAGE I CULVERT AT STA. 6+00 -I9FLY-
- -I9RPD- FROM STA. 3+90 -I9RPD- TO STA. 11+00 -I9RPD-
- -L- FROM STA. 574+76 +/- -L- TO STA. 622+50 -L- AND FROM STA. 627+50 -L- TO STA. 670+50 -L- INCLUDING -L- STAGE 1 BRIDGE AT -Y-
- -L- NORTHBOUND (NB) FROM STA. 670+50 -L- TO STA. 676+50 -L-
- -Y- WB TEMPORARY PAVEMENT FROM STA. 16+50 -Y- TO STA. 17+67 -Y-
- -YRPA- FROM STA. 5+00 -YRPA- TO STA. 10+00 -YRPA-
- -YRPD- FROM STA. 8+00 -YRPD- TO STA. 13+50 -YRPD-
- -YRPB-, -YRPC-, AND -YLPD-

USING RSD 1101.02 AS NEEDED CONSTRUCT -Y- WB FROM STA. 10+00 -Y- TO STA. 16+50 -Y- UP TO THE EXISTING EDGE AND ELEVATION (SEE TCP-30).

USING RSD 1101.02 AS NEEDED BEGIN CONSTRUCTION UP TO THE EXISTING EGDE AND ELEVATION ON THE FOLLOWING (SEE TCP-23, 25 THRU 27):
- -I9FLY- FROM STA. 0+00 -I9FLY- TO STA. 6+00 -I9FLY- AND FROM STA. 28+00 -I9FLY- TO STA. 32+87 -I9FLY-
- -L- NB FROM STA. 676+50 -L- TO STA. 696+11 -L-
- -L- SB FROM STA. 675+80 -L- TO STA. 692+43 -L-

STEP 7) CLOSE COX MADDOX RD WITHIN THE RIGHT OF WAY AND CONSTRUCT -L- FROM STA. 622+50 -L- TO STA. 627+50 -L-, -YRPA- FROM STA. 5+00 -YRPA- TO STA. 10+00 -YRPA-, -YRPD- FROM STA. 8+00 -YRPD- TO STA. 13+50 -YRPD-, -FRONT-, AND -DR1- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE.

PHASE II

STEP 1) USING RSD 1101.02 AS NEEDED INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS, REMOVE CONFLICTING MARKINGS AND MARKERS, AND SHIFT TRAFFIC ONTO TEMPORARY PATTERNS ON THE FOLLOWING:
- -L- (NC 87) AS SHOWN ON TCP-32 THRU 39
- -Y- FROM STA. 2+40 -Y- TO STA. 16+46 -Y- (SEE TCP-41)
- SR 1138 (HARVEY FAULK RD) (SEE TCP-33)

STEP 2) USING RSD 1101.02 AS NEEDED CONSTRUCT -L- NB FROM STA. 681+23 -L- TO STA. 696+11 -L- UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-35 THRU 37).

AWAY FROM TRAFFIC CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE:
- -I9FLY- FROM STA. 30+75 -I9FLY- TO STA. 38+95 -I9FLY- (SEE TCP-33)
- -Y- WB FROM STA. 10+00 -Y- TO STA. 16+50 -Y- INCLUDING TEMPORARY PAVEMENT (SEE TCP-41)
- -Y- FROM STA. 56+84 -Y- TO STA. 61+53 -Y- (SEE TCP-40)

AWAY FROM TRAFFIC COMPLETE CONSTRUCTION OF THE FOLLOWING:
- -I9FLY- FROM STA. 0+00 -I9FLY- TO STA. 32+87 -I9FLY- (SEE TCP-33 THRU 37)
- -L- NB FROM STA. 681+23 -L- TO STA. 696+11 -L- (SEE TCP-35 THRU 37)
- -Y- WB STA. 16+50 -Y- TO STA. 56+84 -Y- (SEE TCP- 40 & 41)

AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF -L- NB FROM STA. 676+86 -L- TO STA. 681+83 -L- (SEE TCP-35).

PHASE III

STEP 1) AWAY FROM TRAFFIC INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON THE FOLLOWING AS SHOWN ON TCP-43 THRU 53:
- -I9FLY- FROM STA. 0+00 -I9FLY- TO STA. 38+95 -I9FLY-
- -L- NB FROM -I9FLY- TO STA. 702+65 -L-
- -Y- WB FROM STA. 5+51 -Y- TO STA. 60+40 -Y-

NOTE: STEPS 2 AND 2A SHALL BE COMPLETED SIMUTANEOUSLY AND IN A CONTINUOUS MANNER.

STEP 2) USING RSD 1101.02 AS NEEDED COMPLETE IN THE FOLLOWING ORDER (SEE TCP-43 THRU 49):
- 2.1) SHIFT NC 87 NB TRAFFIC ONTO NEW TEMPORARY PATTERN
- 2.2) INSTALL TEMPORARY PAVEMENT MARKINGS ON -L- NB FROM STA. 702+65 -L- TO STA. 709+90 -L- AND REMOVE ANY CONFLICTING MARKINGS AND MARKERS
- 2.3) SHIFT NC 87 SB TRAFFIC ONTO NEW TEMPORARY PATTERN
- 2.4) INSTALL TEMPORARY PAVEMENT MARKINGS ON -Y1- FROM STA. 41+87 -Y1- TO STA. 66+97 -Y1- AND REMOVE ANY CONFLICTING MARKINGS AND MARKERS (SEE TCP-43 & 44)

STEP 2A) USING RSD 1101.02 AS NEEDED SHIFT -Y- TRAFFIC ONTO -Y- WB AND INSTALL TEMPORARY PAVEMENT MARKINGS AND MARKERS ON THE FOLLOWING (SEE TCP-50 & 52):
- -Y- FROM STA. 2+40 -Y- TO STA. 5+51 -Y- AND FROM STA. 60+40 -Y- TO STA. 63+53 -Y-

USING TYPE III BARRICADES AND DRUMS CLOSE SR 1138 (HARVEY FAULK RD) AS SHOWN ON TCP-44.

STEP 3) USING RSD 1101.02 AS NEEDED CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE:
- -DR1-
- -FRONT-
- -I9FLY- MONOLITHIC ISLAND ON (SEE TCP-44)
- -Y- EB FROM STA. 10+00 -Y- TO STA. 14+00 -Y- (INCLUDING REMOVAL OF TEMPORARY PAVEMENT)(SEE TCP-52)
- -Y- MONOLITHIC ISLAND AT STA. 33+00 -Y-

AWAY FROM TRAFFIC CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE SHEETS TCP-44 THRU 53):
- -I9FLY- SB FROM -I9RPD- TO STA. 38+95 -I9FLY-
- -I9RPD- FROM STA. 0+00 -I9RPD- TO STA. 3+86 -I9RPD- AND FROM STA. 11+00 -I9RPD- TO -I9FLY- SB
- -L- STAGE II BRIDGE AT -Y-
- -L- SB FROM STA. 670+50 -L- TO STA. 696+11 -L- AND STAGE II CULVERT AT STA. 679+50 -L-
- -Y- EB FROM STA. 14+00 -Y- TO STA. 57+92 -Y-
- SR 1138 (HARVEY FAULK RD)

AWAY FROM TRAFFIC COMPLETE CONSTRUCTION OF THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LIFT OF SURFACE COURSE (SEE TCP-44 THRU 53):
- -I9RPD- FROM STA. 3+86 -I9RPD- TO STA. 11+00 -I9RPD-
- -L- FROM STA. 574+76 +/- -L- TO STA. 670+50 -L-
- -L- NB FROM STA. 670+50 -L- TO STA. 681+23 -L-
- -L- SB FROM STA. 675+80 -L- TO STA. 692+41 -L-
- -YRPA-, -YRPB-, -YRPC-, -YRPD-, & -YLPD-
- NC 87 PAVEMENT REMOVAL BETWEEN STA. 16+67 -I9RPD- AND STA. 675+80 -L-

APPROVED: J.W. Woolard DATE: 9/01/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASING

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

CADD FILE

01-SEP-2009 14:58
\\Dot\dfs\rdo\NSProj\ippprojects\r2417c\traffic\trafficcontrol\top\phase i\r-2417c_tcp_ph1_top_03_phasing.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-3A

PHASING (CONT.)

STEP 4) USING RSD 1101.02 COMPLETE IN THE FOLLOWING ORDER:
- 4.1) INSTALL INTERMEDIATE PAVEMENT MARKINGS ON -Y- EB, REMOVE ANY CONFLICTING MARKINGS, AND REVISE THE TEMPORARY SIGNAL (SEE FINAL PAVEMENT MARKING PLANS) (SEE PM-3 & 9).
- 4.2) SHIFT -Y- EB TRAFFIC ONTO FINAL PATTERN AND CLOSE THE MEDIAN LANES USING DRUMS
- 4.3) CONSTRUCT THE REMAINING PORTION OF MONOLITHIC ISLAND ON -Y-, REMOVE TEMPORARY PAVEMENT ON -Y- FROM STA. 14+00 -Y- TO STA. 17+67 -Y-, AND COMPLETE CONSTRUCTION OF -Y- (SEE TCP-41 & PM-9).

PHASE IV

STEP 1) AWAY FROM TRAFFIC INSTALL THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND FINAL PAVEMENT MARKERS ON THE FOLLOWING (SEE PM-4 THRU 7):
- -I9RPD-
- -L- SB FROM STA. 669+80 -L- TO STA. 696+11 -L-
- -I9FLY- SB FROM -I9RPD- TO STA. 37+95 -I9FLY-
- SR 1138 (HARVEY FAULK RD)

NOTE: STEPS 2 AND 2A MAY BE COMPLETED SIMULTANEOUSLY AND IN A CONTINUOUS MANNER.

STEP 2) USING RSD 1101.02 AND DRUMS AS NEEDED COMPLETE IN THE FOLLOWING ORDER:
- 2.1) REMOVE THE SB EDGELINE FROM STA. 49+03 -Y1- TO STA. 66+97 -Y1- AND FROM STA. 697+00 -L- TO STA. 702+65 -L- (SEE TCP-43, 44, 48, & 49)
- 2.2) SHIFT NC 87 SB TRAFFIC ONTO -I9RPD-. TRAFFIC SHALL RETURN TO A ONE LANE, ONE WAY PATTERN AT THE END OF THE WORKDAY, USING DRUMS TO CLOSE THE OUTSIDE SB LANE OF -I9FLY-, -I9RPD-, AND THE INSIDE SB LANE OF -L- FROM STA. 669+80 -L- TO STA. 709+10 -L-.
- 2.3) INSTALL THE FINAL LIFT OF SURFACE COURSE, MARKINGS, AND MARKERS ON THE FOLLOWING (SEE PM-2 THRU 7):
  - -I9FLY- NB
  - -L- FROM STA. 696+11 -L- TO STA. 709+10 -L-
  - -L- NB FROM STA. 680+25 -L- TO STA. 696+11 -L-

  REMOVE REMOVABLE TAPE MARKINGS AND MARKERS, INSTALL FINAL PAVEMENT MARKINGS AND MARKERS, AND REMOVE TRAFFIC CONTROL DEVICES AND SIGNS ON -L- FROM STA. 709+10 -L- TO STA. 753+34 -L- (SEE PM-8).

  MILL AS SHOWN, INSTALL THE FINAL LIFT OF SURFACE COURSE, MARKINGS, AND MARKERS ON -Y1-(NC 87) FROM STA. 5+80 -Y1- TO STA 38+12 -Y1- AND FROM STA. 54+83 -Y1- TO -I9FLY- (SEE PM-2 THRU 4):

STEP 2A) USING RSD 1101.02 INSTALL THE FINAL LIFT OF SURFACE COURSE, PAVEMENT MARKINGS, MARKERS, AND OPEN TRAFFIC TO THE FINAL PATTERN ON -DR1- AND -FRONT-.

USING RSD 1101.02 MILL AS SHOWN, INSTALL THE FINAL LIFT OF SURFACE COURSE, REMOVE TEMPORARY MARKINGS AND MARKERS, INSTALL FINAL PAVEMENT MARKINGS, MARKERS, AND OPEN TRAFFIC TO THE FINAL PATTERN ON -Y-, -Y2-, AND -Y3- (SEE PM-2, 3, 9, AND 10).

REMOVE TYPE III BARRICADES AND OPEN SR 1138 (HARVEY FAULK RD) TO TRAFFIC (SEE PM-4).

NOTE: COORDINATE WITH OTHERS ON R-2417AA TO OPEN THE FOLLOWING IN STEP 3 TO THE FINAL TRAFFIC PATTERN.

STEP 3) AWAY FROM TRAFFIC INSTALL THE FINAL LIFT OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND MARKERS ON THE FOLLOWING AND OPEN TO TRAFFIC:
- -L- FROM STA. 549+33 +/- -L- TO STA. 669+80 -L- (SEE PM-5, 6, 10 THRU 15)
- -L- NB FROM STA. 669+11 -L- TO STA. 680+25 -L- (SEE PM-6)
- -L- SB FROM STA. 545+31 -L- TO STA. 549+33 -L- (SEE PM-11)
- -LPB- (R-2417BB)(REMOVE TYPE III BARRICADES) (SEE PM-12)
- -LPC- (R-2417BB)(REMOVE TYPE III BARRICADES) (SEE PM-12)
- -YRPA- & -YRPD- (SEE PM-10 & 15)
- -YRPB- & -YRPC- (SEE PM-10 & 14)
- -YLPD- (SEE PM-10)

USING RSD 1101.02 MILL, RESURFACE, INSTALL FINAL PAVEMENT MARKINGS, AND MARKERS ON -L- SB FROM STA. 526+40 -L- TO STA. 545+31 -L- AND OPEN TO TRAFFIC (SEE PM-11).

USING RSD 1101.02 REMOVE EXISTING TUBULAR MARKINGS AND INSTALL THE FINAL PAVEMENT MARKINGS AND MARKERS ON -Y3- WB (R-2417BB) FROM SA. 23+00 -Y3- TO STA. 36+00 -Y3- AND OPEN TO TRAFFIC (SEE PM-12).

STEP 4) REMOVE ALL SIGNING AND ANY REMAINING TRAFFIC CONTROL DEVICES.

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASING

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

CADD FILE

12-AUG-2009 09:12
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_03_Phasing.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-4

TEMPORARY SHORING NO. ⟨1⟩

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 680+39.00 -L-, 50 ft. +/- LEFT OF -CL-L-, TO STATION 680+99.00 -L-, 50 ft. +/- LEFT OF -CL-L-, USE THE FOLLOWING SOIL PARAMETERS:

- UNIT WEIGHT OF SOIL ABOVE WATER TABLE, γ = 120 PCF
- UNIT WEIGHT OF SOIL BELOW WATER TABLE, γ = 60 PCF
- FRICTION ANGLE, ϕ = 30 DEGREES
- COHESION, c = 0 PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 680+39.00 -L-, 50 ft. LEFT OF -CL-L-, TO STATION 680+99.00 -L-, 50 ft. LEFT OF -CL-L-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

TEMPORARY SHORING NO. ⟨2⟩

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

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

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 5+87.00 -I9FLY-, 55 ft. +/- LEFT OF- CL -I9FLY-, TO STATION 6+57.00 -I9FLY-, 55 ft. +/- LEFT OF -CL -I9FLY-, USE THE FOLLOWING SOIL PARAMETERS:

- UNIT WEIGHT OF SOIL ABOVE WATER TABLE, γ = 120 PCF
- UNIT WEIGHT OF SOIL BELOW WATER TABLE, γ = 60 PCF
- FRICTION ANGLE, ϕ = 30 DEGREES
- COHESION, c = 0 PSF

NO SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 5+87.00 -I9FLY-, 55 ft. LEFT OF -CL -I9FLY-, TO STATION 6+57.00 -I9FLY-, 55 ft. LEFT OF- CL -I9FLY-. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

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.

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
	TEMPORARY PAVEMENT MARKINGS
	COLD APPLIED PLASTIC (4″) Type4 - Removable Tape
CA	WHITE EDGELINE
CI	YELLOW DOUBLE CENTER
	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL Type4 - Removable Tape
DC	STRAIGHT ARROW
	PAINT(4″)
PA	WHITE EDGELINE (2X)
PC	10 FT. WHITE SKIP (2X)
PD	2 FT. WHITE MINISKIP (2X)
PE	WHITE SOLID LANE LINE (2X)
PF	10 FT. YELLOW SKIP (2X)
PH	YELLOW SINGLE CENTER (2X)
PI	YELLOW DOUBLE CENTER (2X)
	PAINT(8″)
PR	WHITE GORELINE (2X)
PS	WHITE DIAGONAL (2X)
PV	YELLOW DIAGONAL (2X)
	PAINT(24″)
P4	WHITE STOPBAR (2X)
	PAINTMARKING 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)
QG	LEFT/RIGHT/STRAIGHT (2X)
	TEMPORARY RAISED PAVEMENT MARKERS
MH	YELLOW & YELLOW
MI	CRYSTAL & RED

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 WZTCU ON SEPTEMBER 26, 2008, AND SEALED BY A PROFESSIONAL ENGINEER, JOHN L. PILIPCHUK, LICENSE #25521.

NOTE: ALL DIMENSIONS AND STATIONS +/-

APPROVED: J. W. Woolard, Jr. DATE: 8/12/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

TEMPORARY SHORING DATA AND TEMPORARY PAVEMENT MARKING SCHEDULE

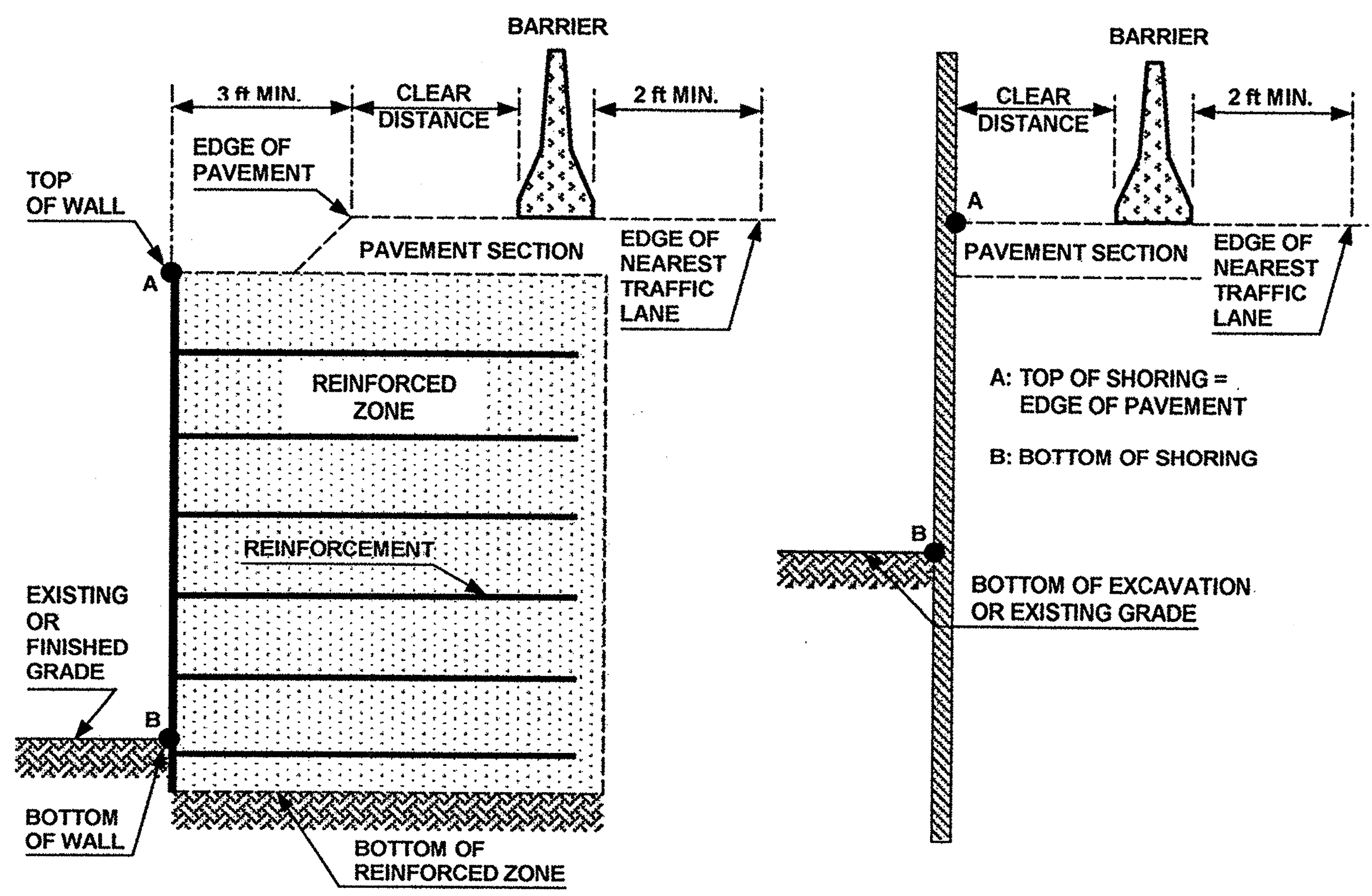
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-4A



NOTE: WALL OR SHORING HEIGHT = A - B

FIGURE A

MINIMUM REQUIRED CLEAR DISTANCE, inches

Barrier Type	Pavement Type	Offset * 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

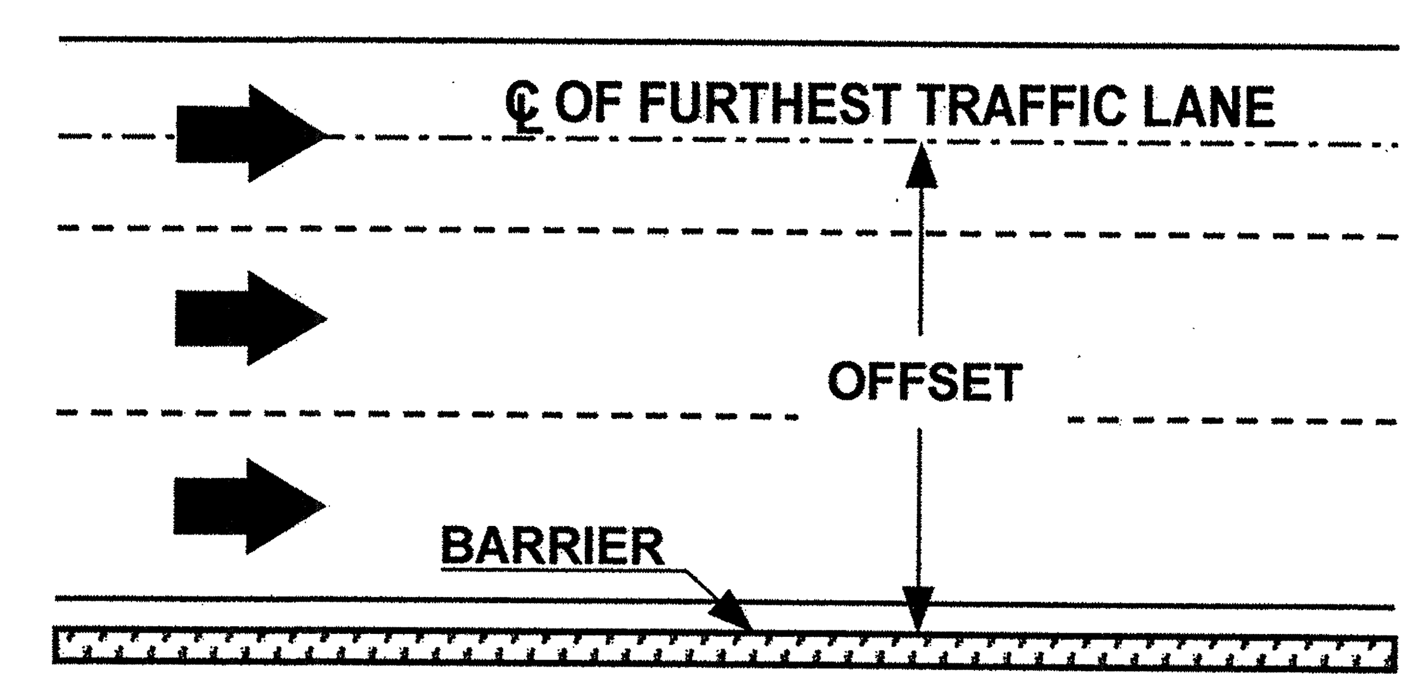


FIGURE B

NOTES

1- REFER TO THE TRAFFIC CONTROL PLANS FOR SHORING LOCATIONS AND SOIL PARAMETERS.

2- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR MORE INFORMATION ABOUT TEMPORARY SHORING, MEASUREMENT AND PAYMENT.

3- PROVIDE PORTABLE CONCRETE BARRIER TO PROTECT TEMPORARY SHORING IF SHORING IS LOCATED WITHIN THE CLEAR ZONE AS DEFINED IN THE AASHTO ROADSIDE DESIGN GUIDE.

4- 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.

5- 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.

6- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.

7- 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

8- 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.

9- 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.

10- 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.

APPROVED:__________ DATE:_____

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 028380 ENGINEER JOSEPH ISHAK
March 22, 07

PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS

SCALE:	NONE
DATE:	3/07
DWG. BY:	JI
DESIGN BY:	JI
REVIEWED BY:	JI

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-5

—— : PROPOSED PAVEMENT MARKING LINE

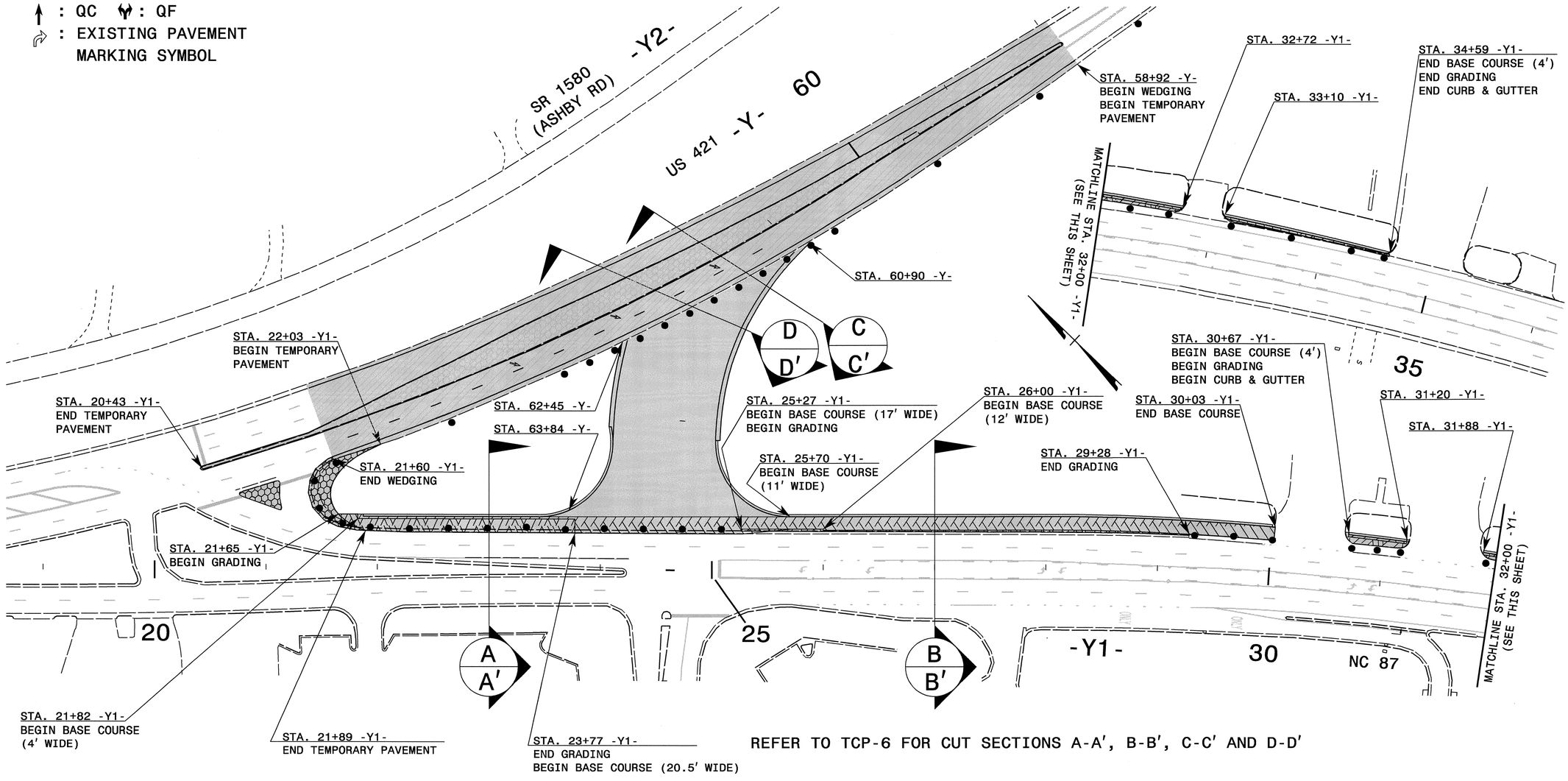
—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL



REFER TO TCP-6 FOR CUT SECTIONS A-A', B-B', C-C' AND D-D'

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

NOTE: ALL FIRST ROW SYMBOLS ARE 60' FROM STOPBAR TO TAIL OF SYMBOL.

NOTE: ALL SYMBOLS ARE 150' FROM SYMBOL TO SYMBOL UNLESS NOTED ON PLAN SHEETS.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 2 DETAIL

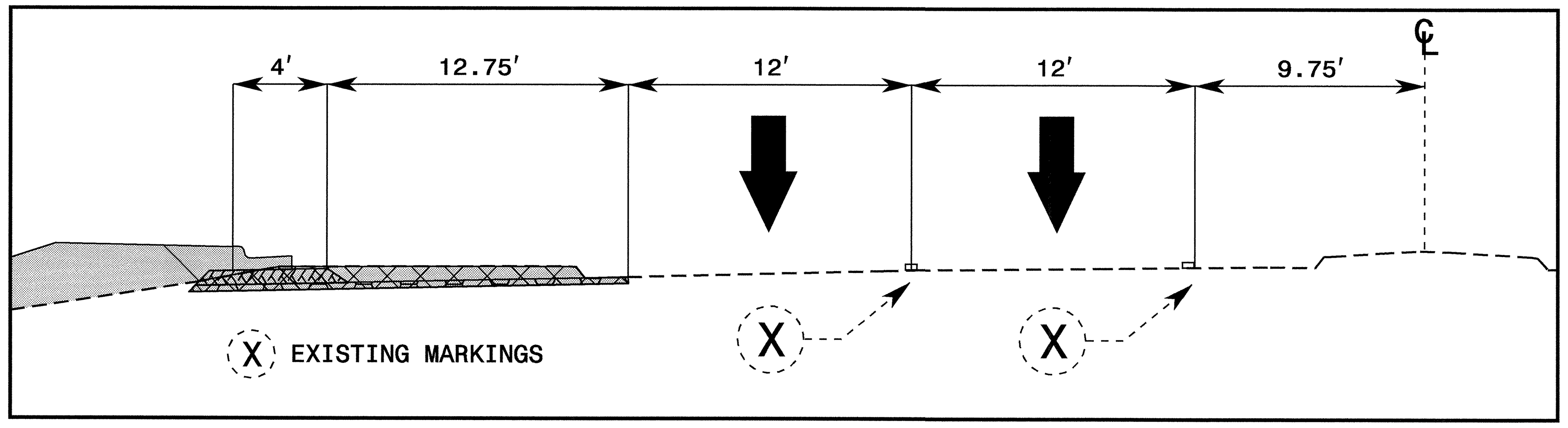
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

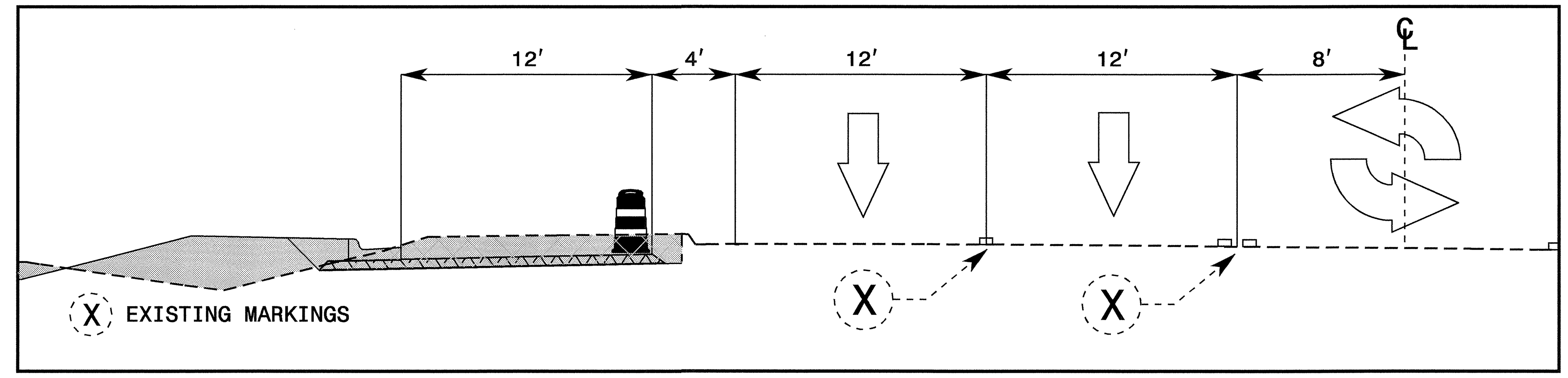
CADD FILE

12-AUG-2009 09:12
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_05_Dtl.dgn
dhayes AT WZ12244738

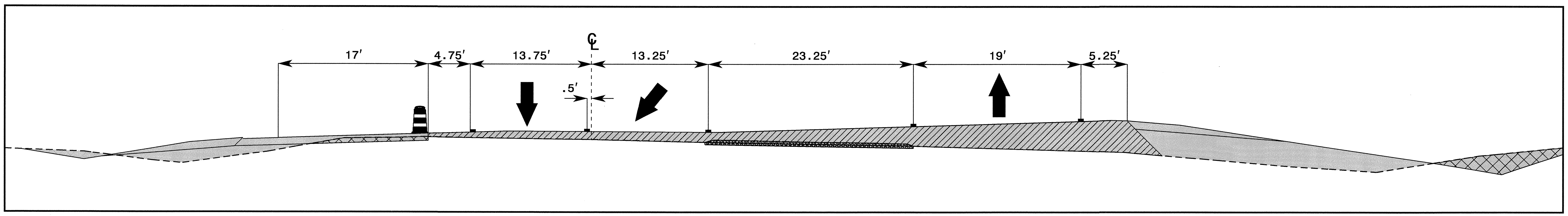
PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-6



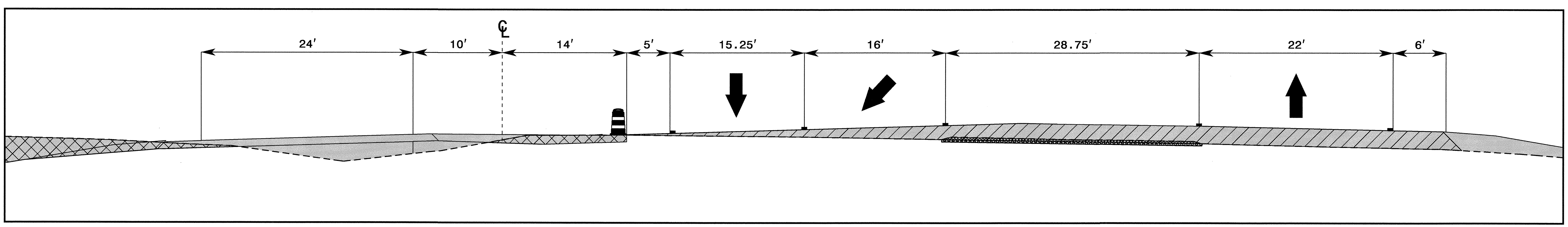
CUT SECTION A
STA. 23+00 -Y1- A'



CUT SECTION B
STA. 27+00 -Y1- B'



CUT SECTION C
STA. 61+50 -Y- C'



CUT SECTION D
STA. 62+00 -Y- D'

APPROVED: J. W. Woolard Jr. DATE: 8/12/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 2
DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

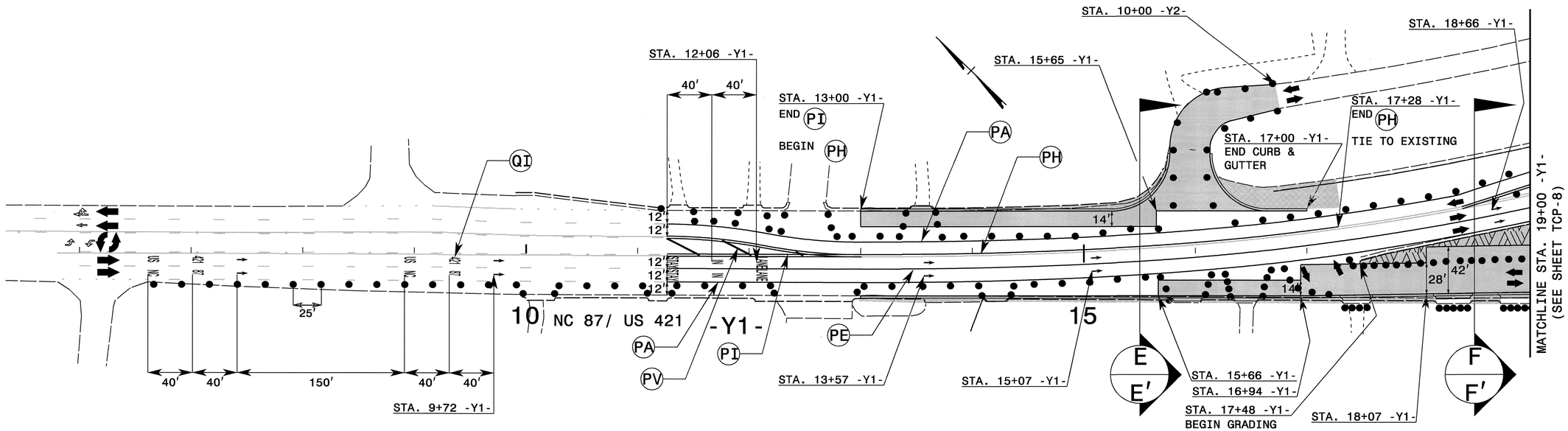
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

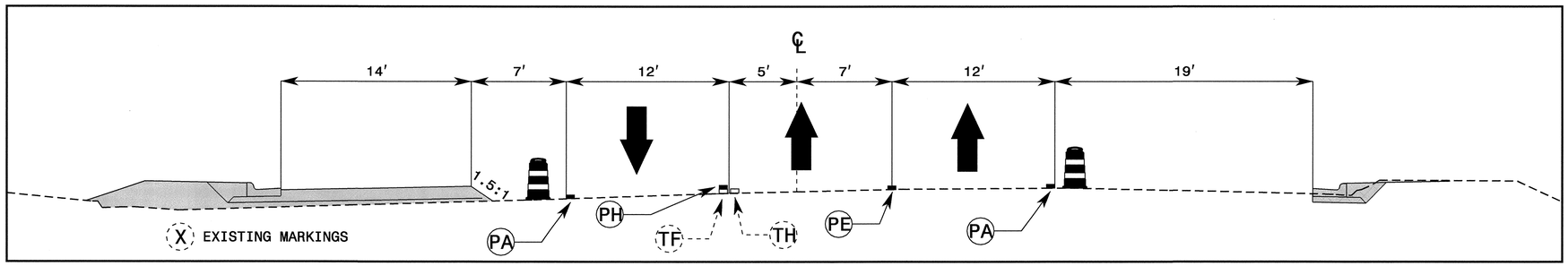
REVISIONS

CADD FILE

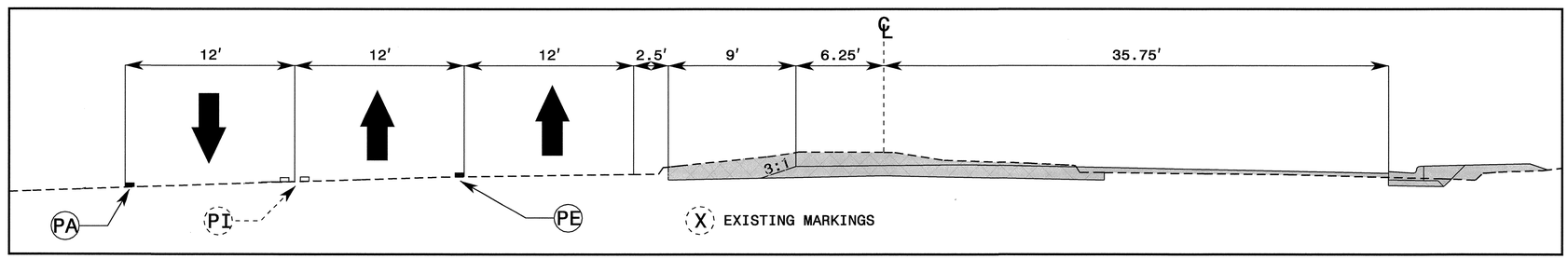
12-AUG-2009 09:11
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase i\R-2417C_TC_TCP_PHI_TCP_06_Dtll.dgn
ahayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-7





CUT SECTION E / STA. 15+50 -Y1- E'



CUT SECTION F / STA. 18+50 -Y1- F'

——— : PROPOSED PAVEMENT MARKING LINE

——— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR.

PHASE I, STEP 3 DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

CADD FILE

12-AUG-2009 09:11
\\Dot\dfsroot\NSPro\Ttipprojects-\r2417c\traffic\trafficcontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_07.DH12.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-8

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

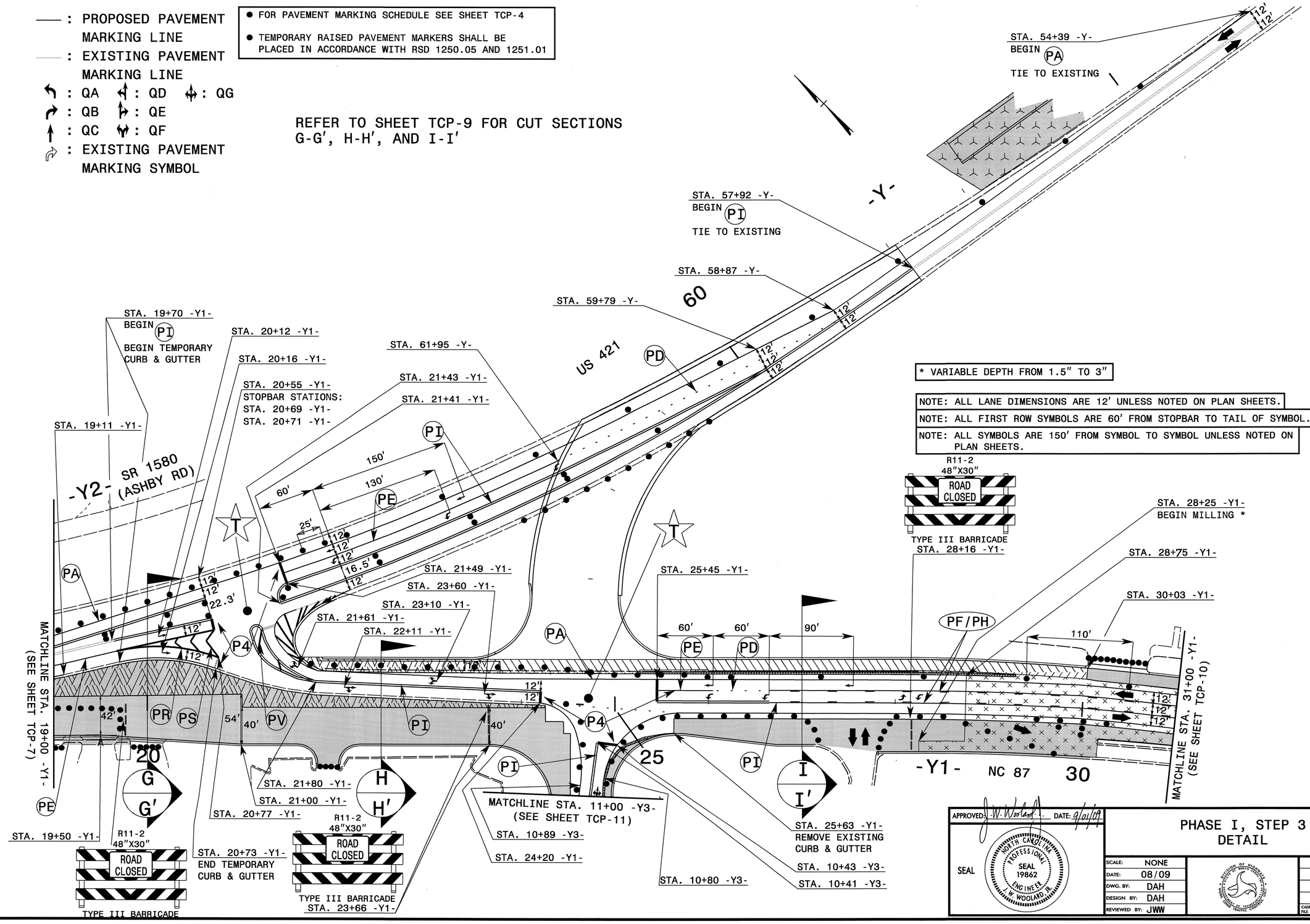
: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

REFER TO SHEET TCP-9 FOR CUT SECTIONS G-G′, H-H′, AND I-I′



* VARIABLE DEPTH FROM 1.5″ TO 3″

NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

NOTE: ALL FIRST ROW SYMBOLS ARE 60′ FROM STOPBAR TO TAIL OF SYMBOL.

NOTE: ALL SYMBOLS ARE 150′ FROM SYMBOL TO SYMBOL UNLESS NOTED ON PLAN SHEETS.

APPROVED: J.W. Woolard Jr. DATE: 9/01/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLARD JR.

PHASE I, STEP 3 DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

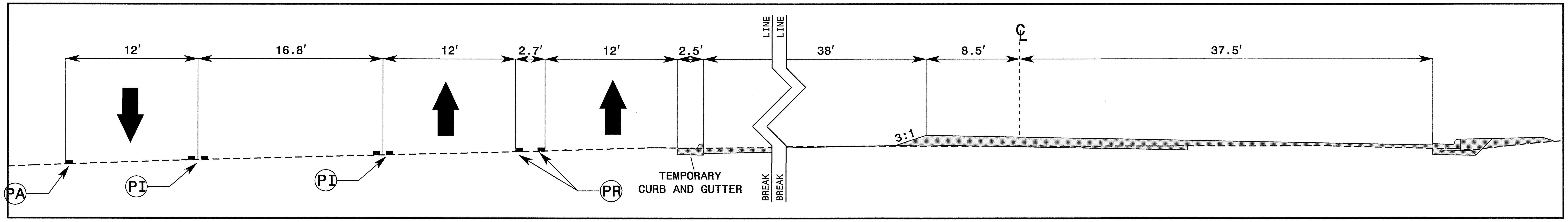
DIVISION OF HIGHWAYS — NORTH CAROLINA DEPARTMENT OF TRANSPORTATION — TRAFFIC CONTROL

REVISIONS

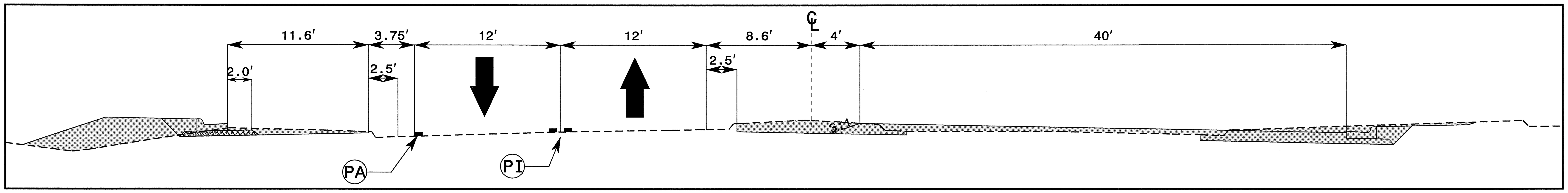
CADD FILE

01-SEP-2009 14:57
\\Dot\dfs\prolnsProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_08.DH12.dgn
dhoyes
AT WZTC244738

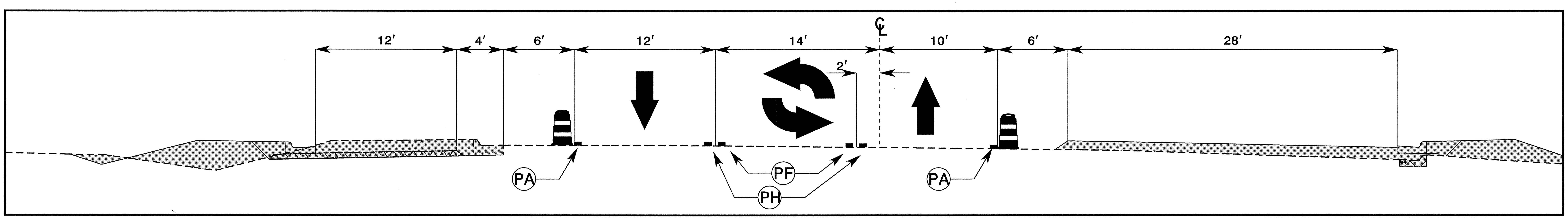
PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-9



CUT SECTION G
STA. 20+00 -Y1- G'



CUT SECTION H
STA. 22+50 -Y1- H'



CUT SECTION I
STA. 27+00 -Y1- I'

APPROVED: J. W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 3
DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

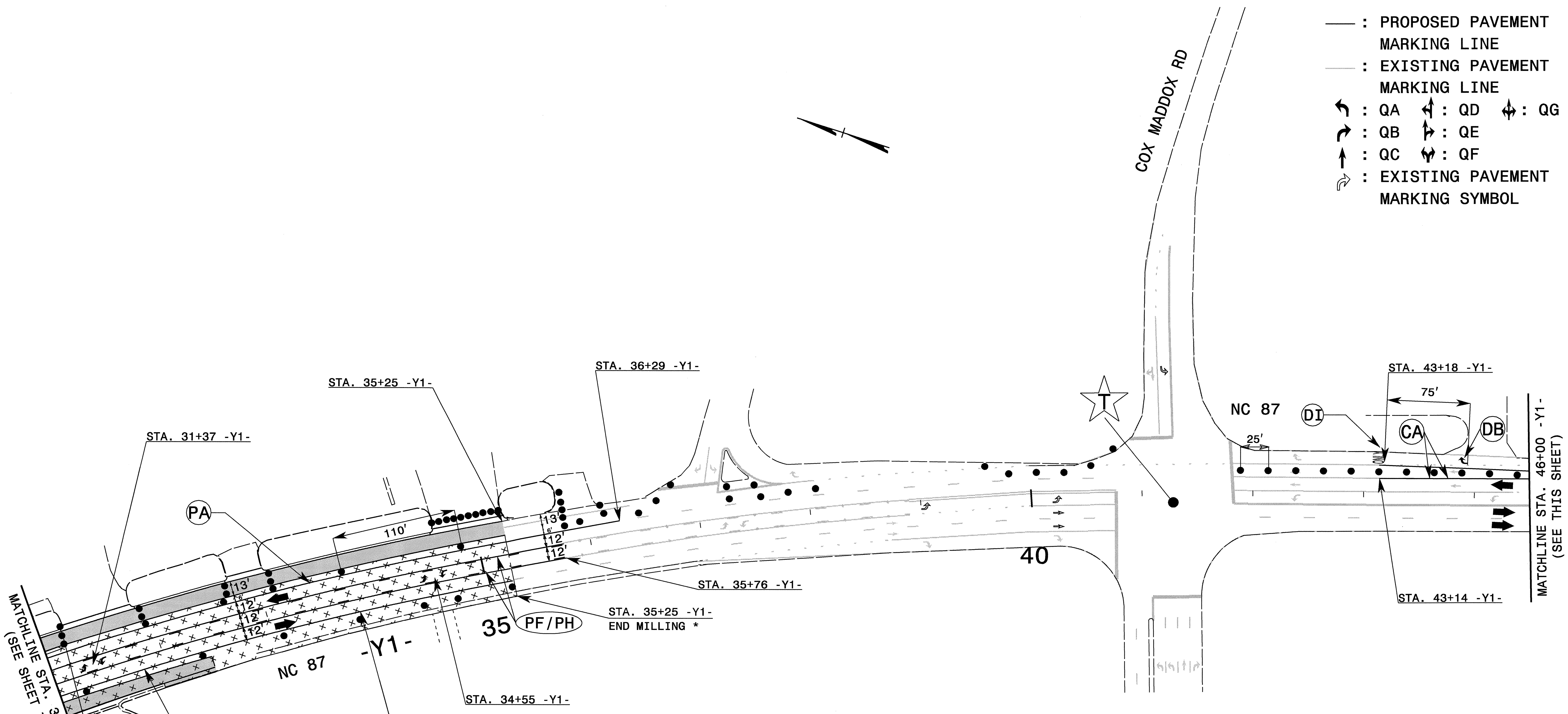
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

12-AUG-2009 09:10
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase i\R-2417C_TC_TCP_PHI_TCP_09_Dt12.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-10



—— : PROPOSED PAVEMENT MARKING LINE

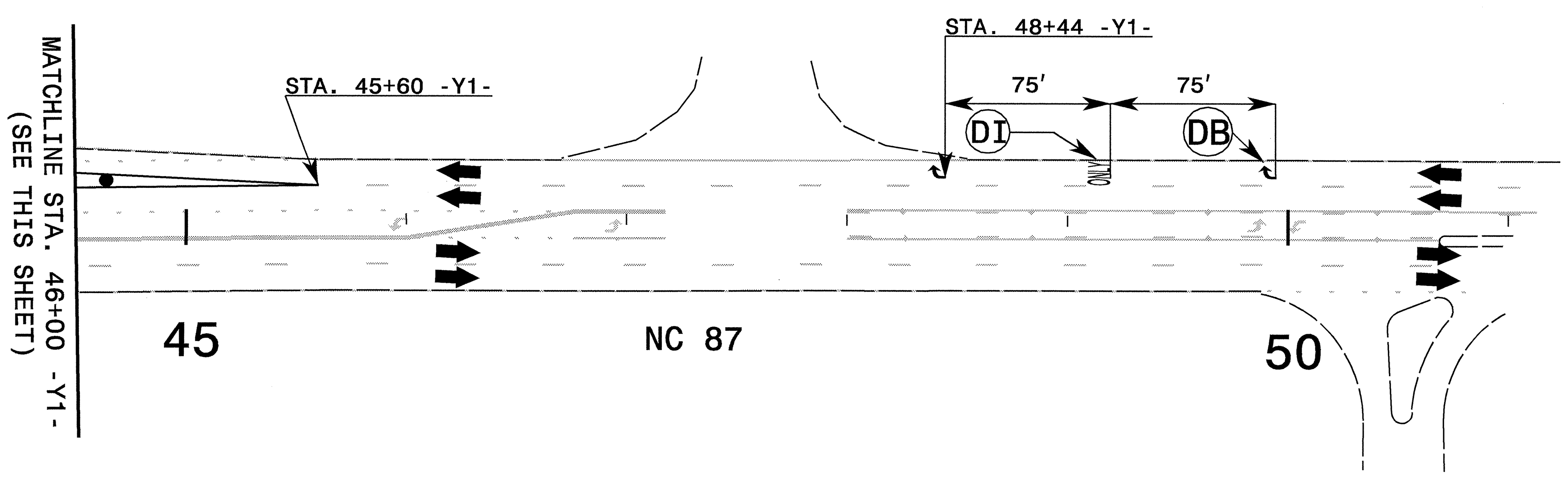
—— : EXISTING PAVEMENT MARKING LINE

↰ : QA   : QD   : QG

↱ : QB   : QE

↑ : QC   : QF

: EXISTING PAVEMENT MARKING SYMBOL



* VARIABLE DEPTH FROM 1.5" TO 3"

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

NOTE: ALL FIRST ROW SYMBOLS ARE 60' FROM STOPBAR TO TAIL OF SYMBOL.

NOTE: ALL SYMBOLS ARE 150' FROM SYMBOL TO SYMBOL UNLESS NOTED ON PLAN SHEETS.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard, Jr. DATE: 9/01/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 3 DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

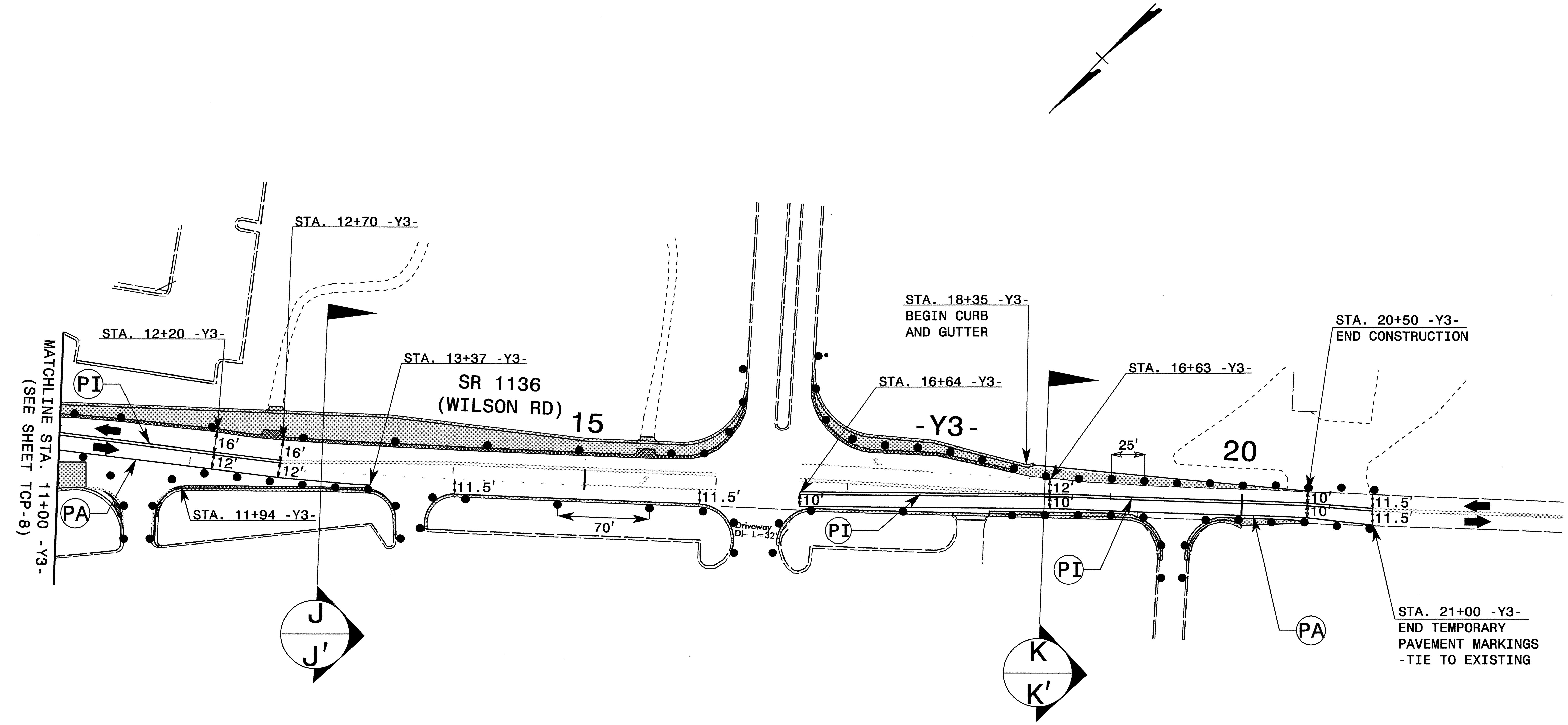
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

01-SEP-2009 14:57
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase i\r-2417c_tc_tcp_phi_tcp_10_dt12.dgn
ahayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-11



SEE SHEET TCP-11 FOR CUT SECTIONS J-J′ AND K-K′

—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 3
DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

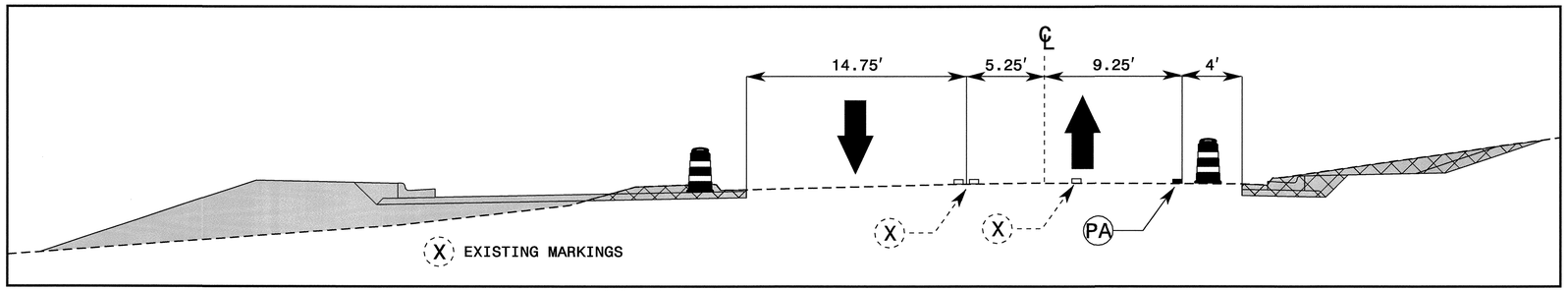
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

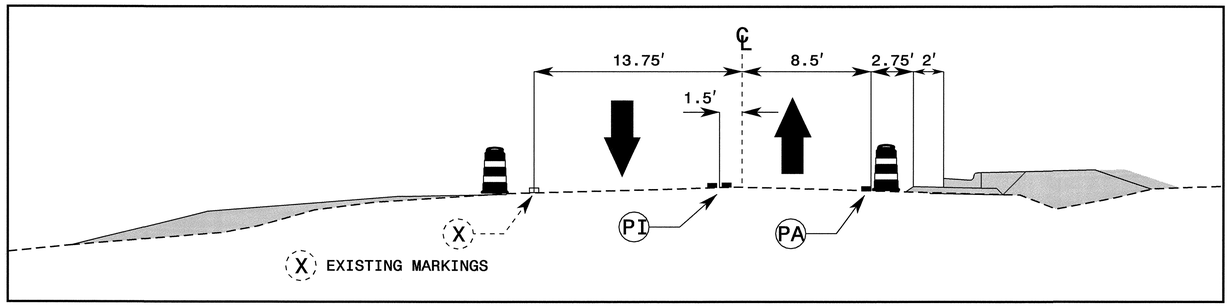
CADD FILE

12-AUG-2009 09:10
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase i\R-2417C_TC_TCP_PHI_TCP_II_D+12.dgn
ahayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-12



CUT SECTION J / J′
STA. 13+00 -Y3-



CUT SECTION K / K′
STA. 18+50 -Y3-

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 3
DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS · NORTH CAROLINA · WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

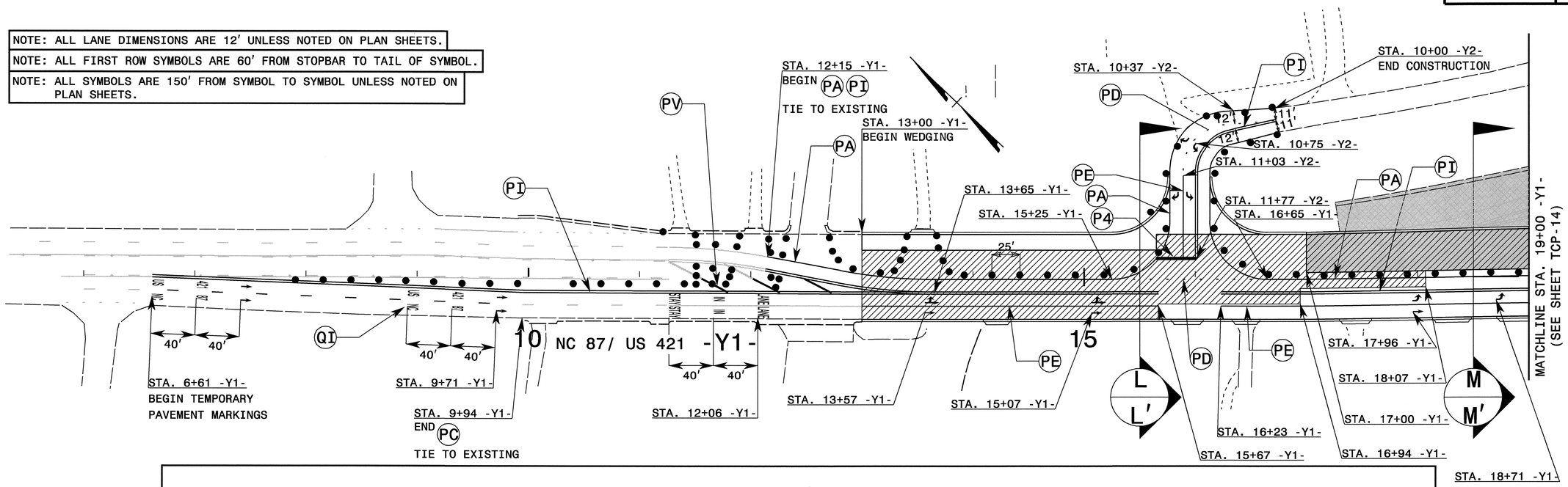
12-AUG-2009 09:09
\\Dot\dfsroot0\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_I2_DH12.dgn
dhoyes AT WZTCC244738

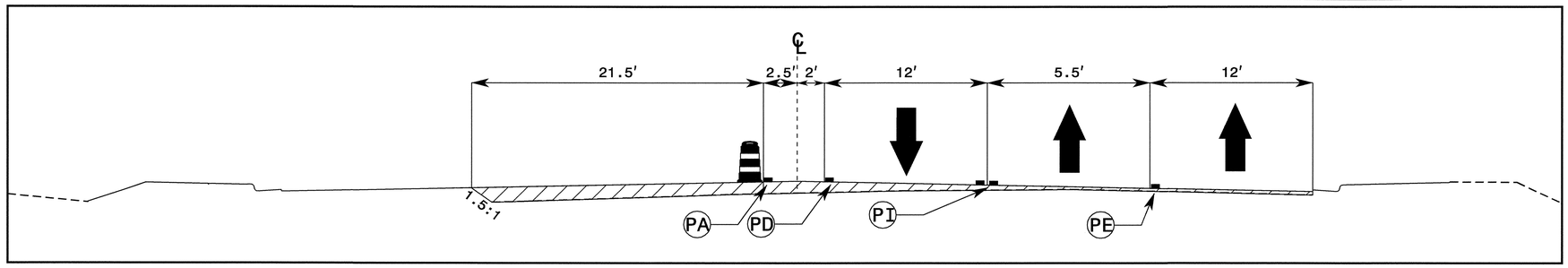
PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-13

NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

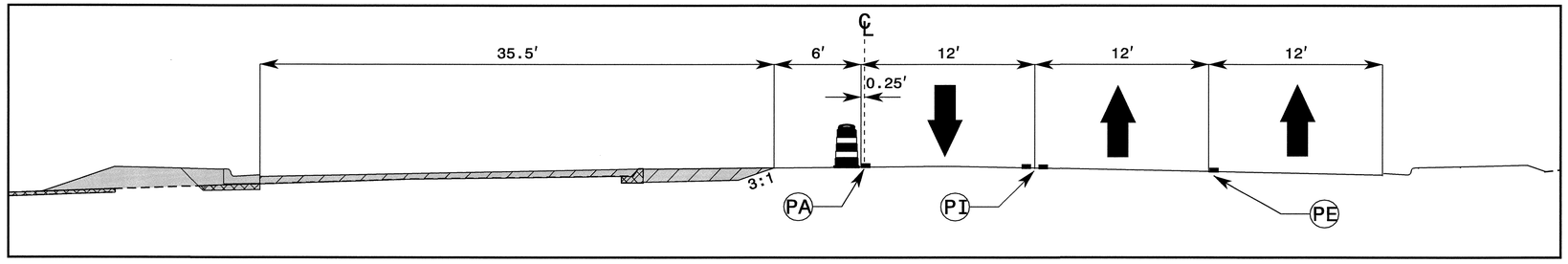
NOTE: ALL FIRST ROW SYMBOLS ARE 60′ FROM STOPBAR TO TAIL OF SYMBOL.

NOTE: ALL SYMBOLS ARE 150′ FROM SYMBOL TO SYMBOL UNLESS NOTED ON PLAN SHEETS.





CUT SECTION L / L′
STA. 15+50 -Y1-



CUT SECTION M / M′
STA. 18+50 -Y1-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

WEDGING

REMOVAL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard DATE: 3/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 4
DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

12-AUG-2009 09:09
\\Dot\dfsroot\DLNSProj\ttprojects-r\r-2417c\traffic\trafficontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_I3.D1I3.dgn
dnayes AT WTC2244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-14

NOTE: ALL FIRST ROW SYMBOLS ARE 60' FROM STOPBAR TO TAIL OF SYMBOL.

NOTE: ALL SYMBOLS ARE 150' FROM SYMBOL TO SYMBOL UNLESS NOTED ON PLAN SHEETS.

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

—— : PROPOSED PAVEMENT MARKING LINE

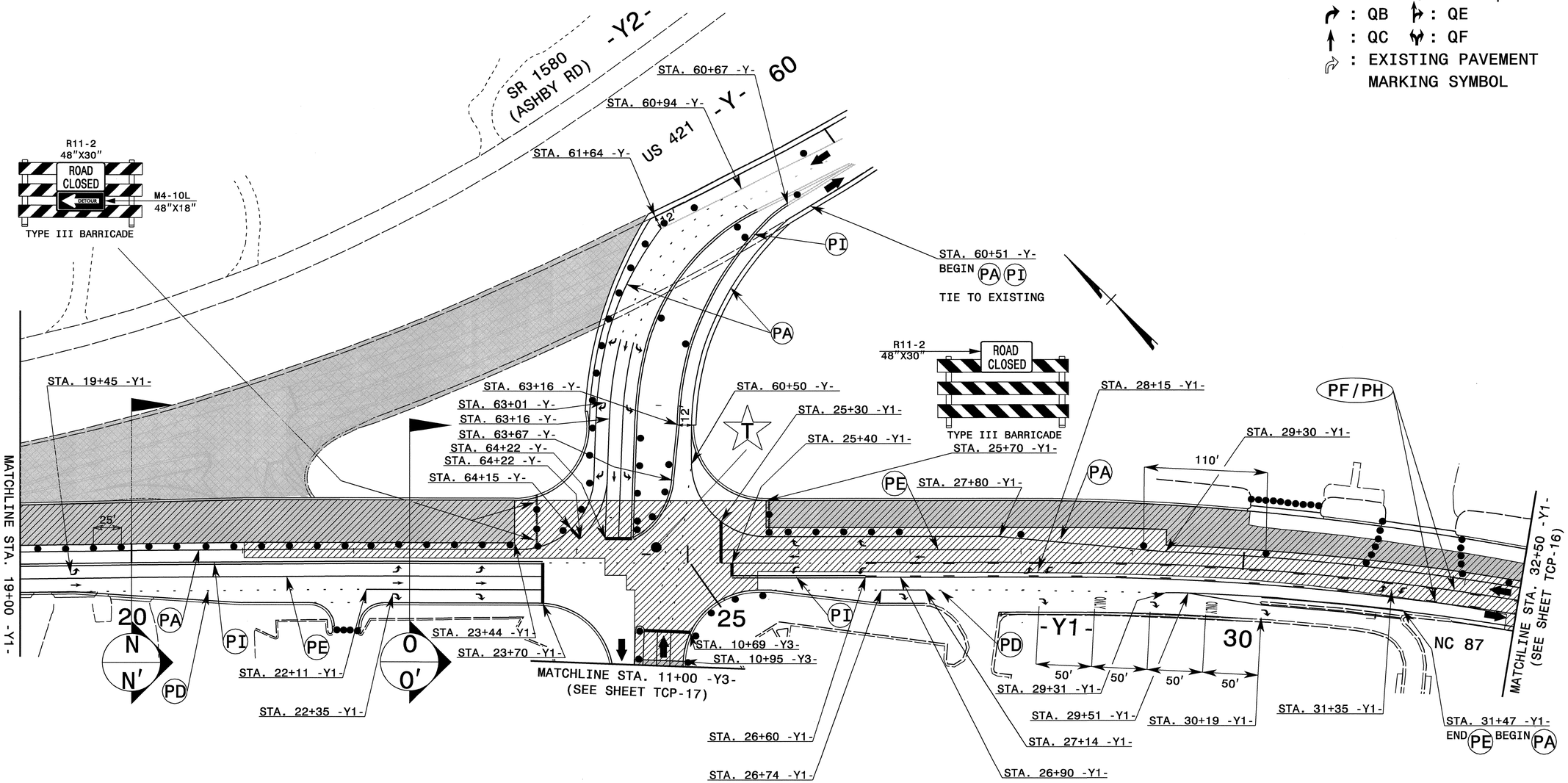
—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL



REFER TO SHEET TCP-15 FOR CUT SECTIONS N-N' AND O-O'

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 4
DETAIL

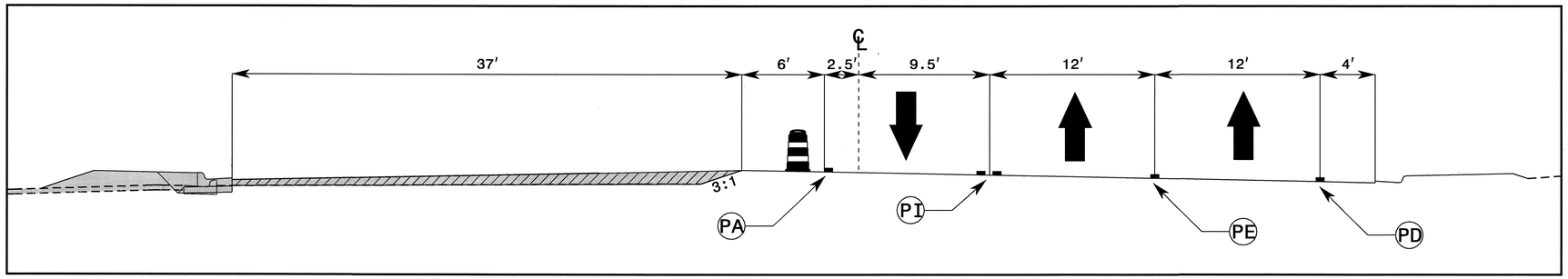
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

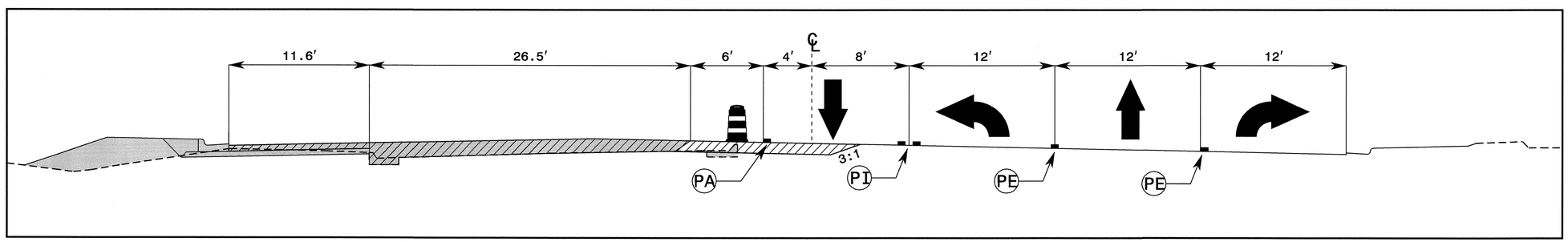
CADD FILE

12-AUG-2009 09:09
\\Dot\dfsroot\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_I4_DH3.dgn
dhayes AT WZTC244138

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-15



CUT SECTION N / N′
STA. 20+00 -Y1-



CUT SECTION 0 / 0′
STA. 22+50 -Y1-

APPROVED: J. W. Woolard, Jr. DATE: 3/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

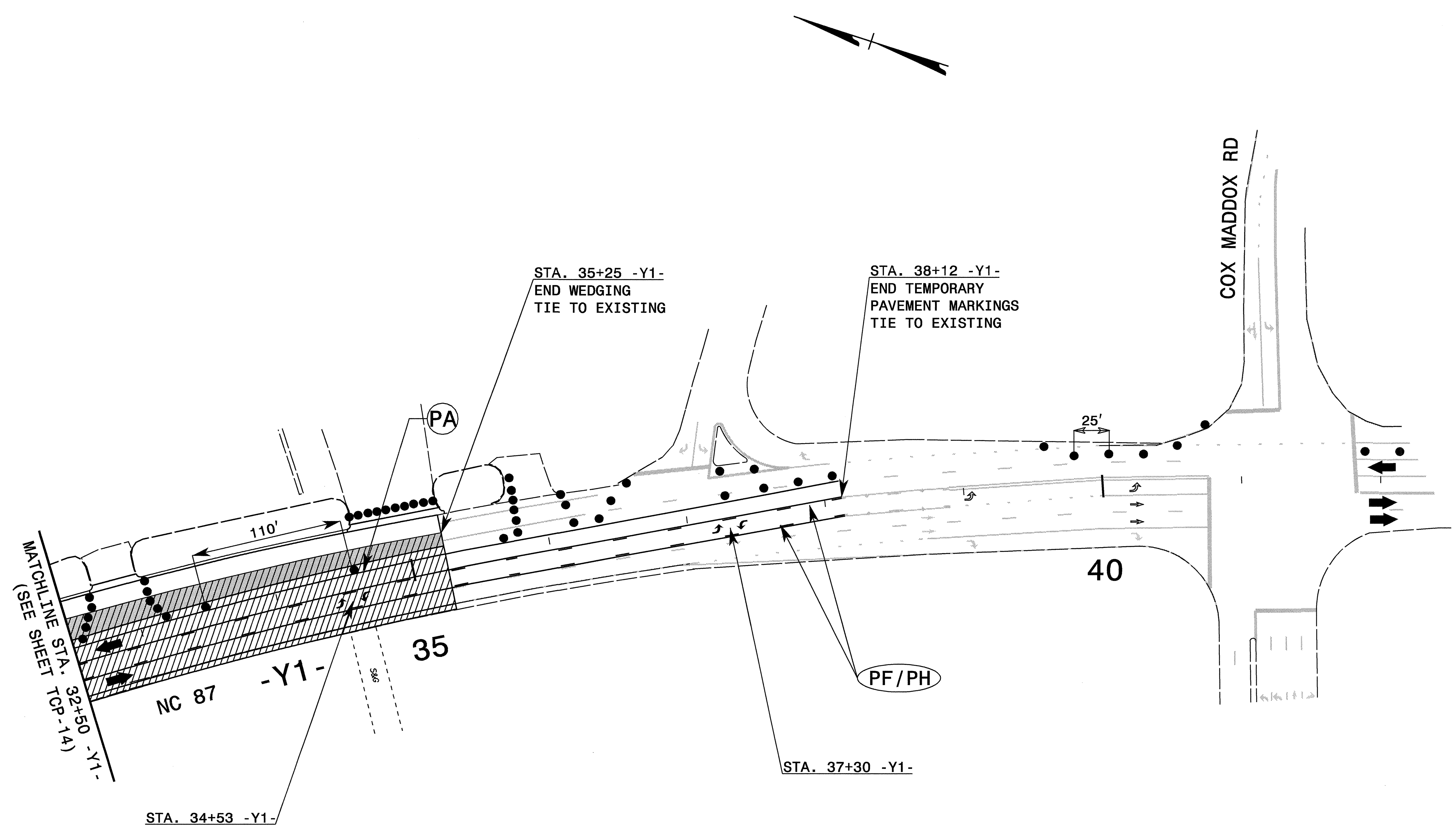
PHASE I, STEP 4 DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

12-AUG-2009 09:08
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_I5_DHI3.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-16



—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

APPROVED: J. W. Woolard, Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 4 DETAIL

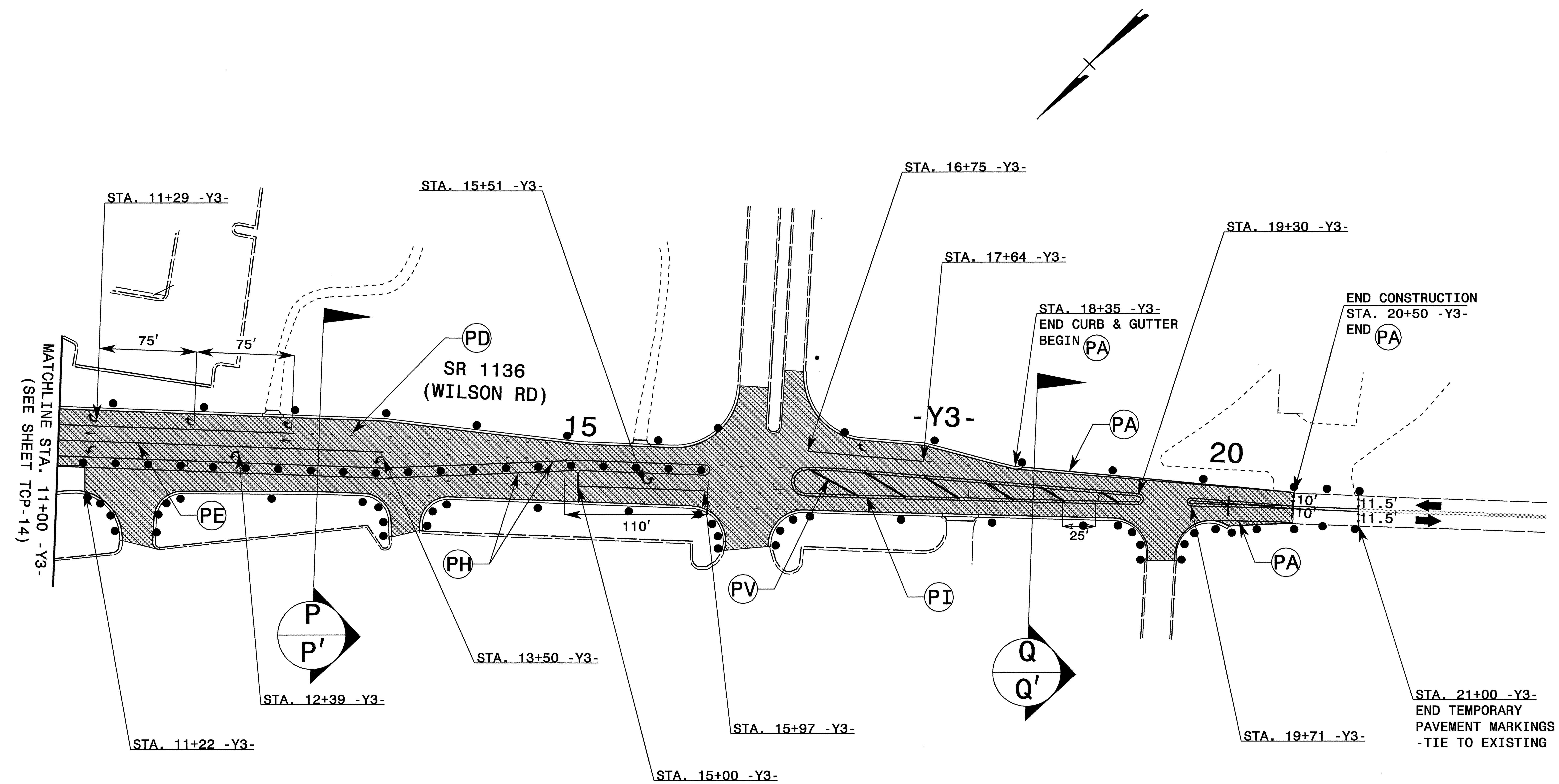
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS	
CADD FILE	

12-AUG-2009 09:08
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase i\R-2417C_TC_TCP_PHI_TCP_16_D+13.dgn
ahayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-17



REFER TO SHEET TCP-18 FOR CUT SECTIONS
P-P' AND Q-Q'

——— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

NOTE: ALL SYMBOLS ARE 150' FROM SYMBOL TO SYMBOL UNLESS NOTED ON PLAN SHEETS.

APPROVED: J.W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 4 DETAIL

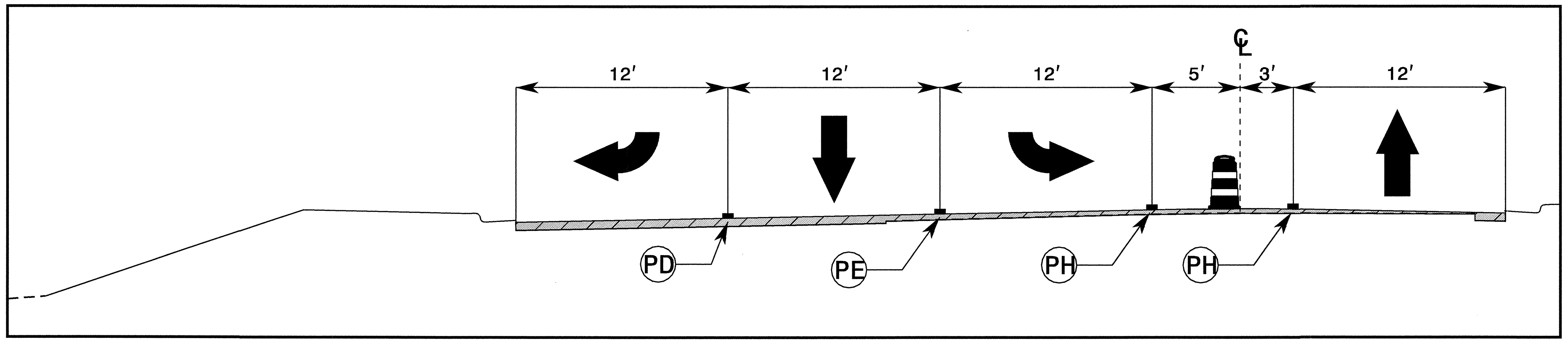
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

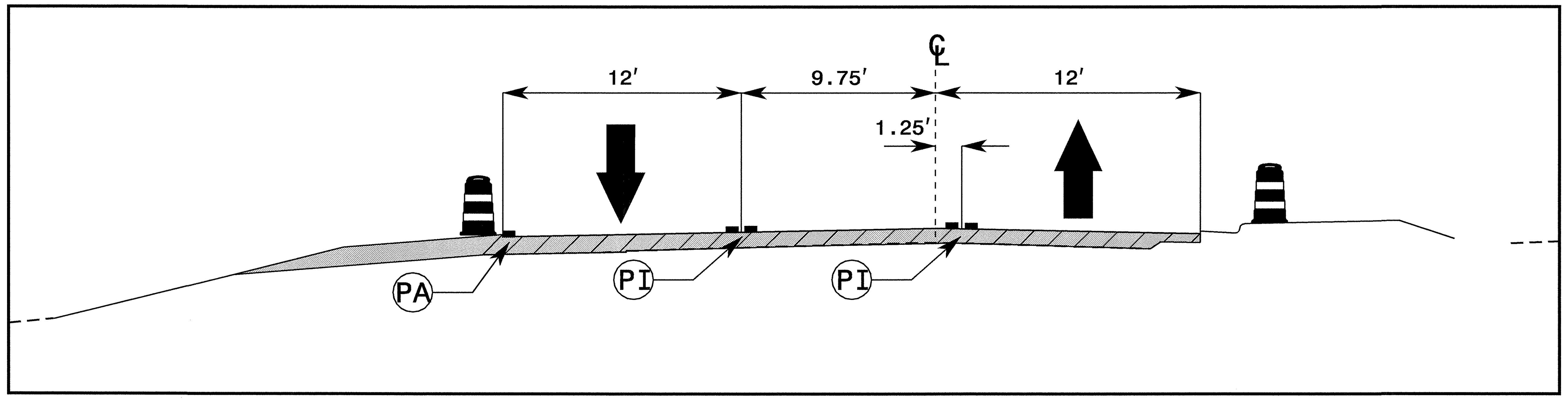
REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-18



CUT SECTION (P)
STA. 13+00 -Y3- (P')



CUT SECTION (Q)
STA. 18+50 -Y3- (Q')

12-AUG-2009 09:07
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase i\R-2417C_TC_TCP_PHI_TCP_18_D+13.dgn
ahayes AT WZTC244738

APPROVED: J.W. Woolard, Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

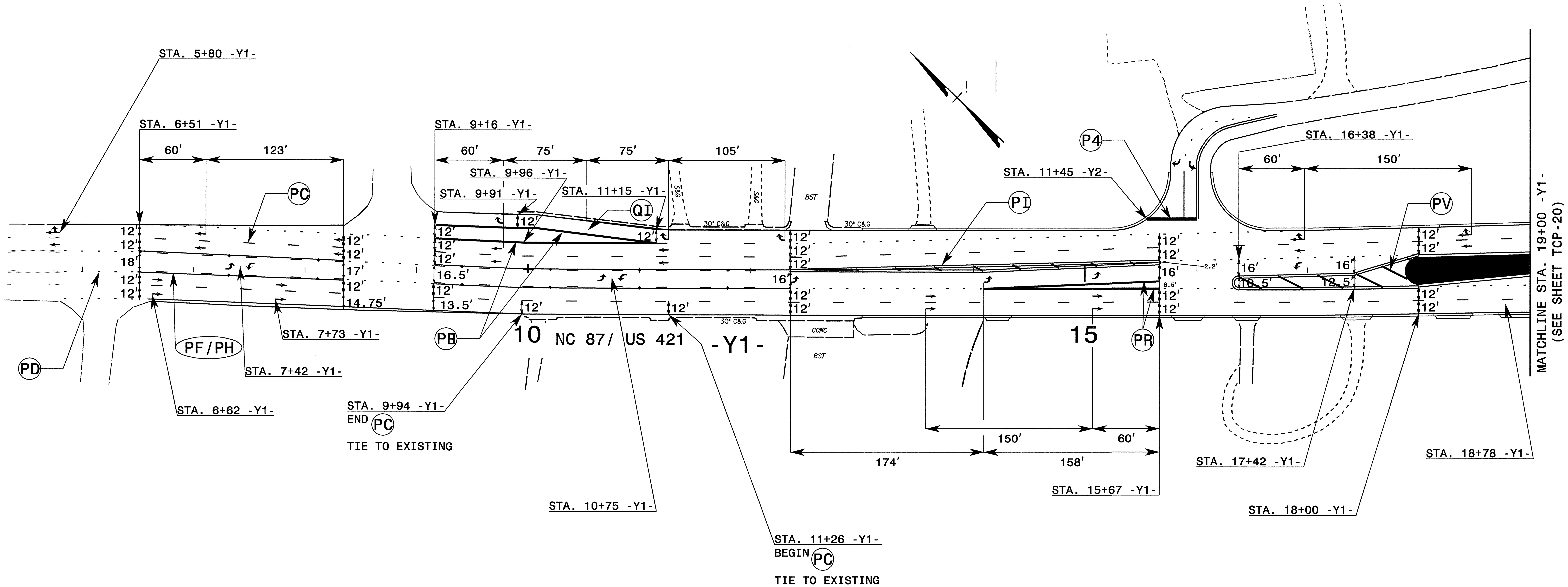
PHASE 1, STEP 4 DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE



—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J.W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 5 DETAIL

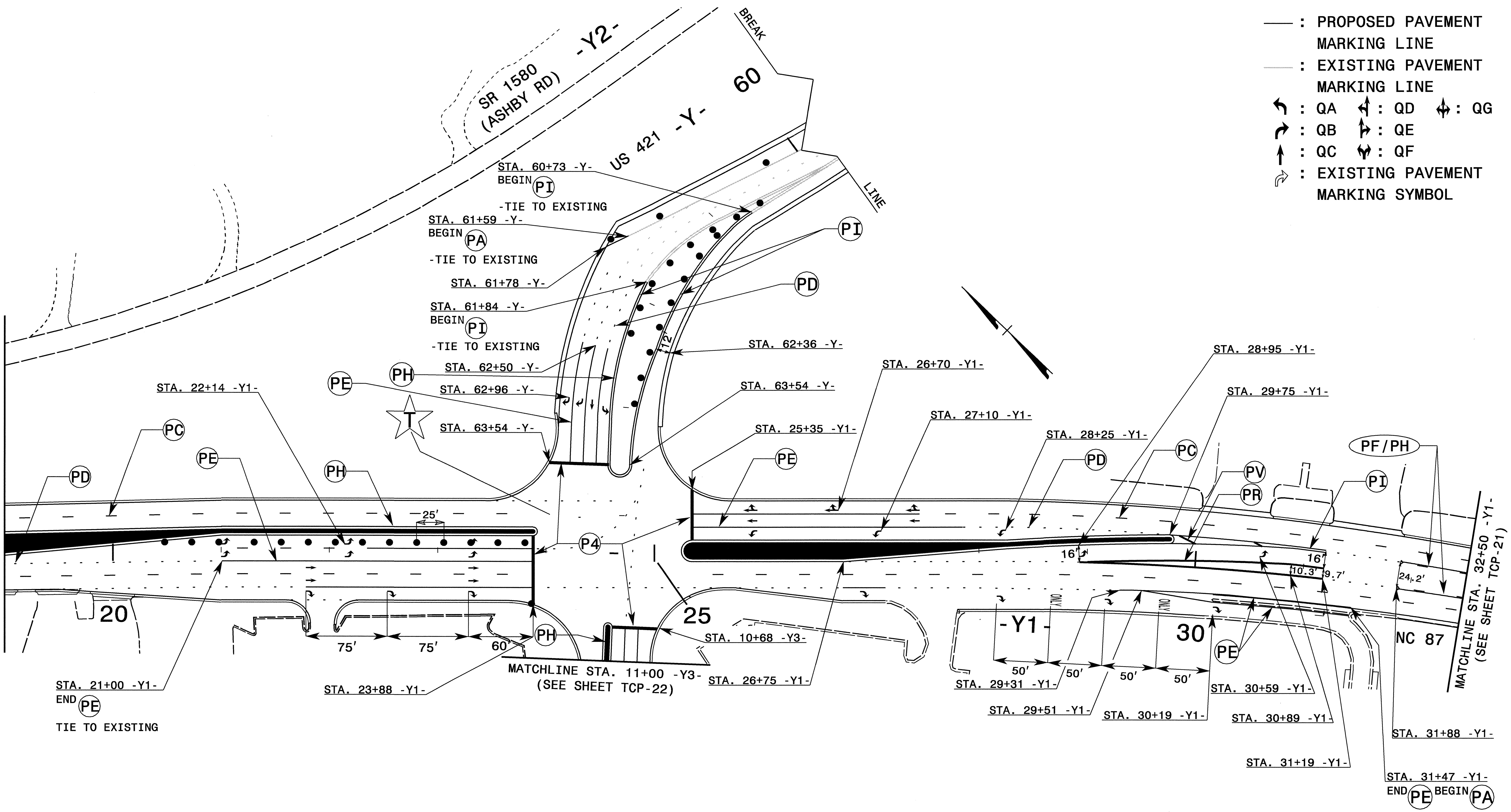
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-20



NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

NOTE: ALL FIRST ROW SYMBOLS ARE 60′ FROM STOPBAR TO TAIL OF SYMBOL.

NOTE: ALL SYMBOLS ARE 150′ FROM SYMBOL TO SYMBOL UNLESS NOTED ON PLAN SHEETS.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J.W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 5 DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

12-AUG-2009 09:07
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_20_D+14.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-21

—— : PROPOSED PAVEMENT MARKING LINE

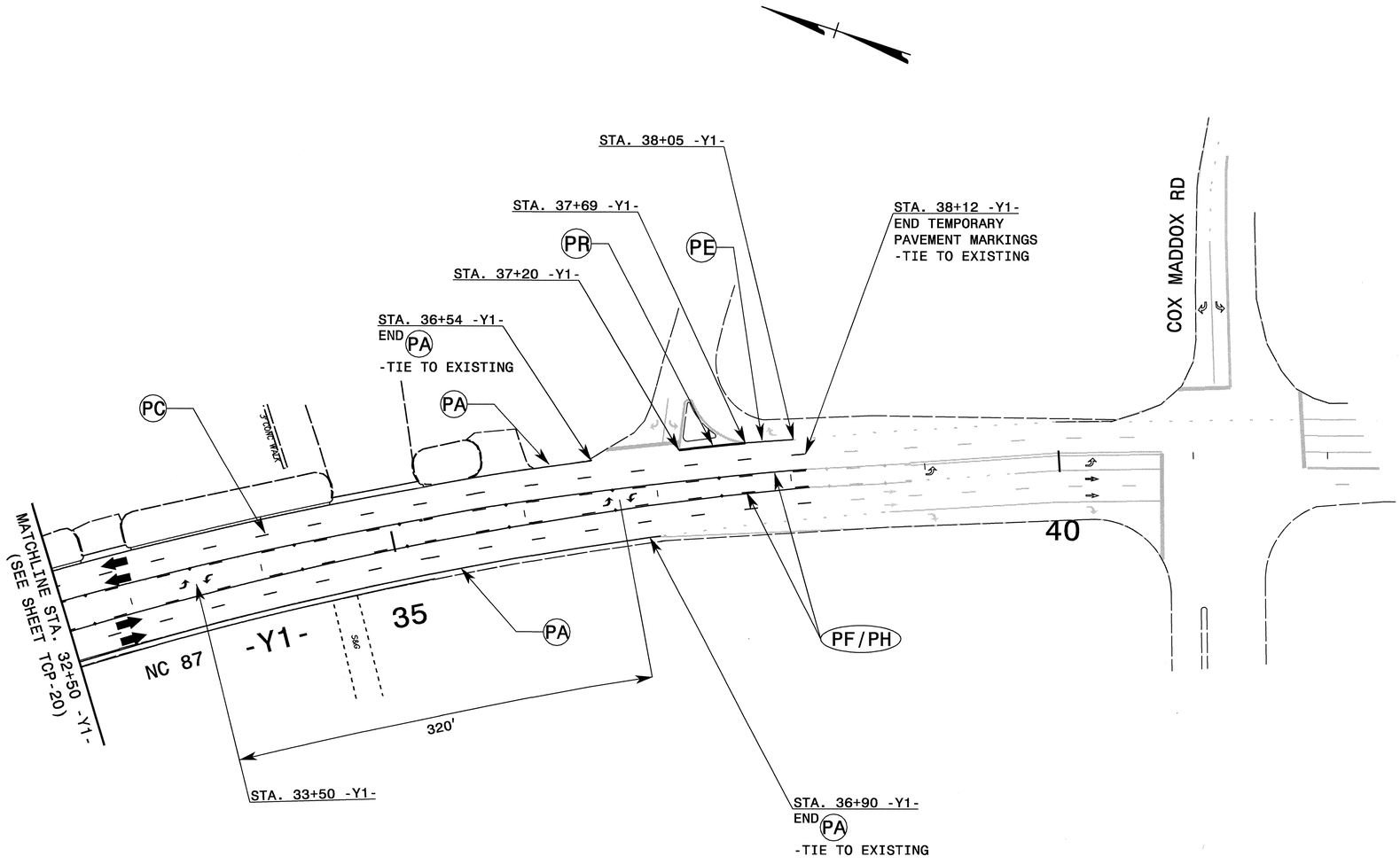
—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL



- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

APPROVED: J.W. Woolard, Jr. DATE: 8/12/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 5 DETAIL

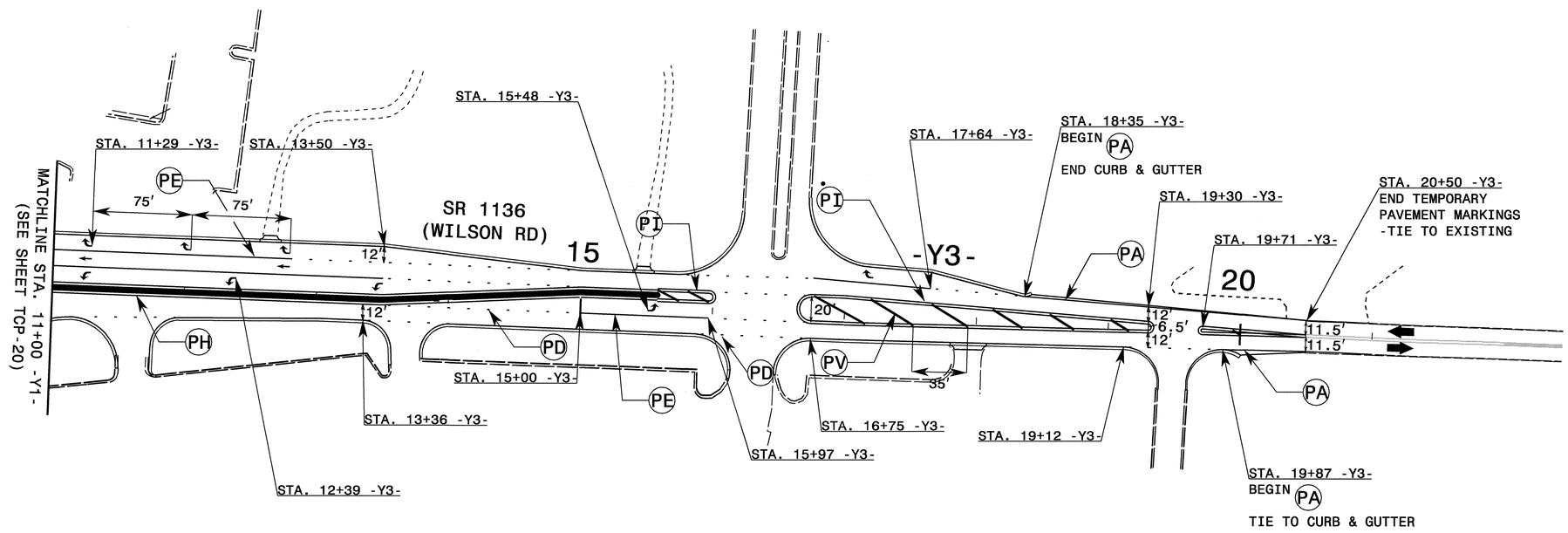
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

CADD FILE

12-AUG-2009 09:06
\\Dot\dfsroot\NSProj\ltpprojects-r\r2417c\traffic\trafficcontrol\tcp\phase i\R-2417C_TC_TCP_PHI_TCP_2LDH14.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-22



NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I, STEP 5
DETAIL

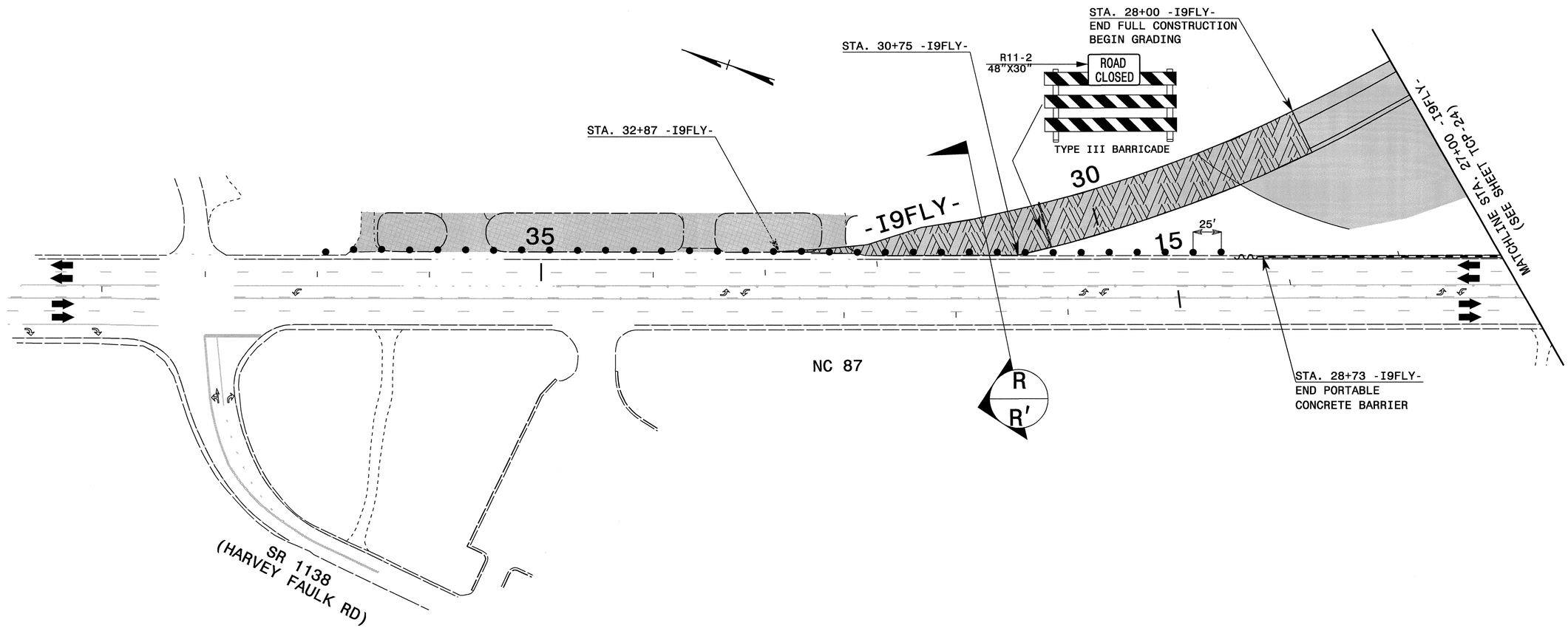
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

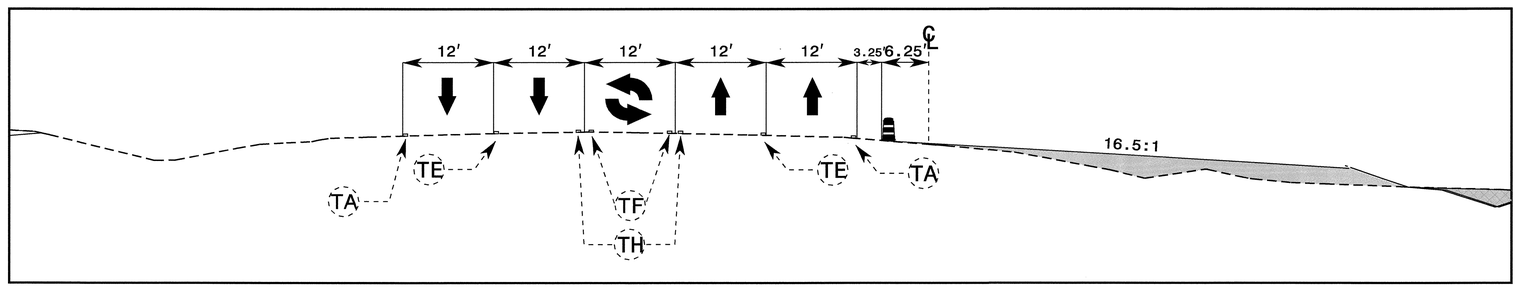
REVISIONS

CADD FILE

12-AUG-2009 09:06
\\Dot\dfsroot\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_22.DGN
dayes AI WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-23





CUT SECTION (R / R′)
STA. 31+00 -I9FLY-

—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED J. W. Woolard DATE: 8/12/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD

PHASE I DETAIL

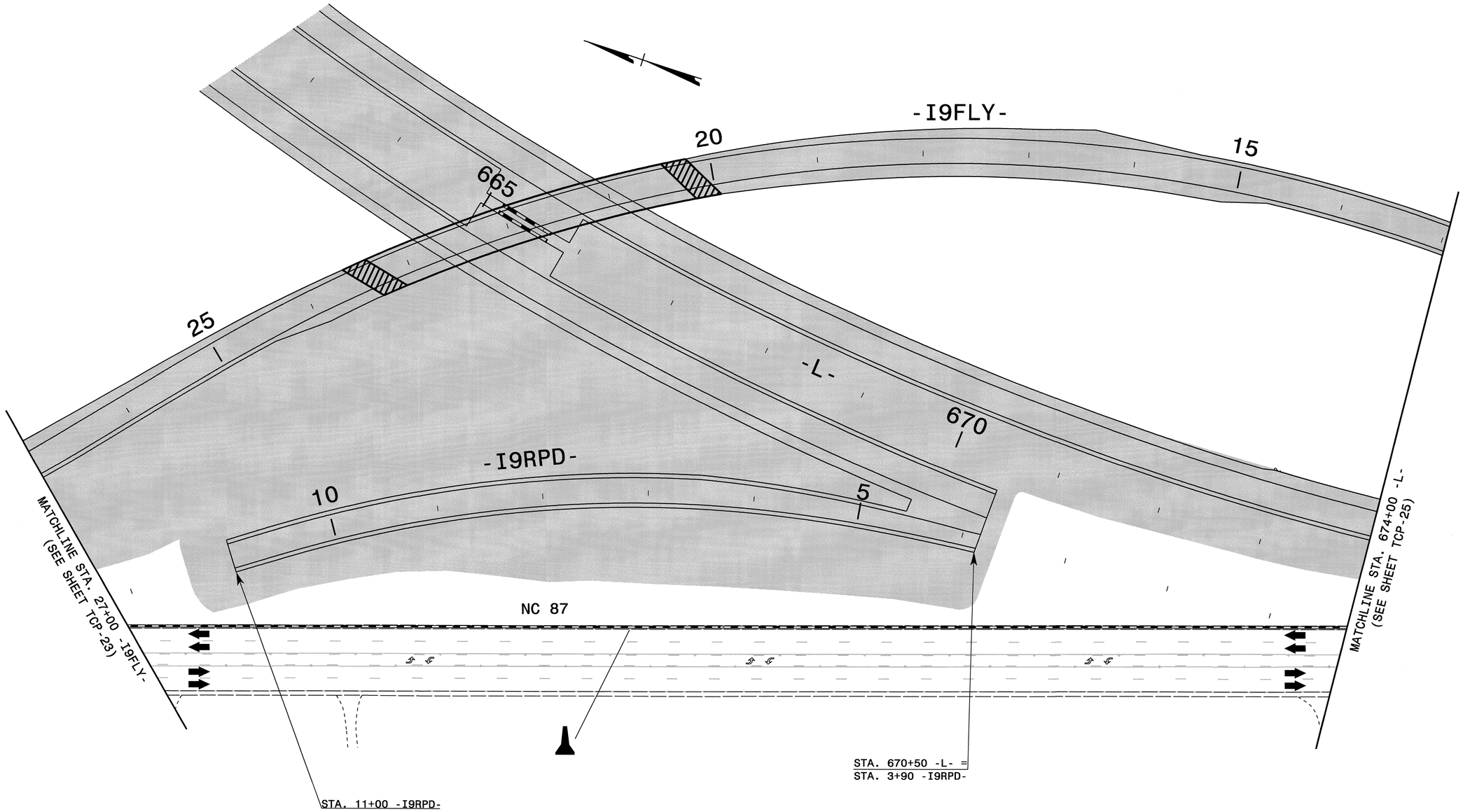
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

CADD FILE

12-AUG-2009 09:06
\\Dot\dfsroot\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\top\phase INR-2417C_TC_TCP_PHI_TCP_23.dgn
dnoyes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-24



—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J.W. Woolard, Jr. DATE: 8/12/09

SEAL

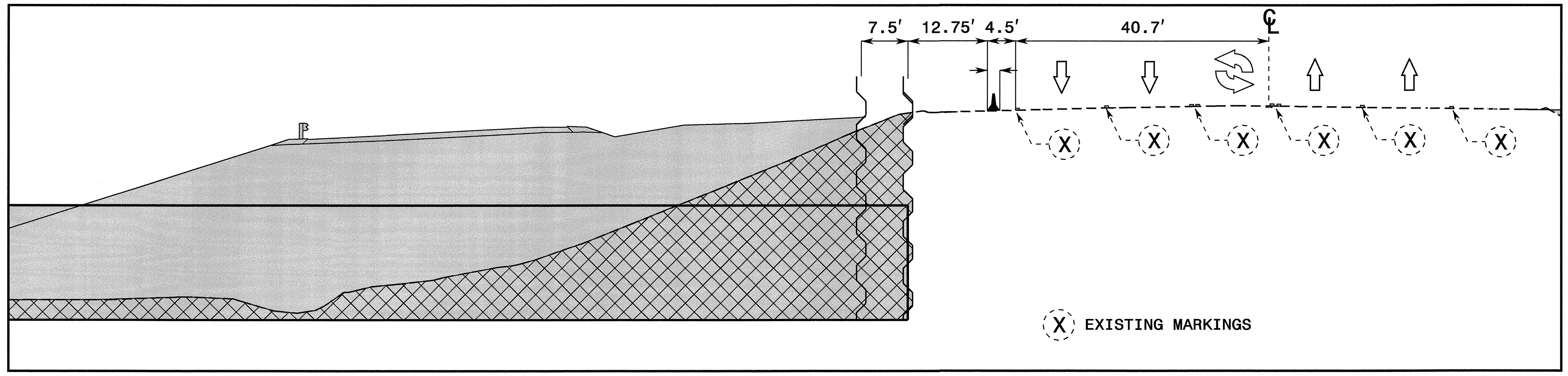
NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR.

PHASE I DETAIL

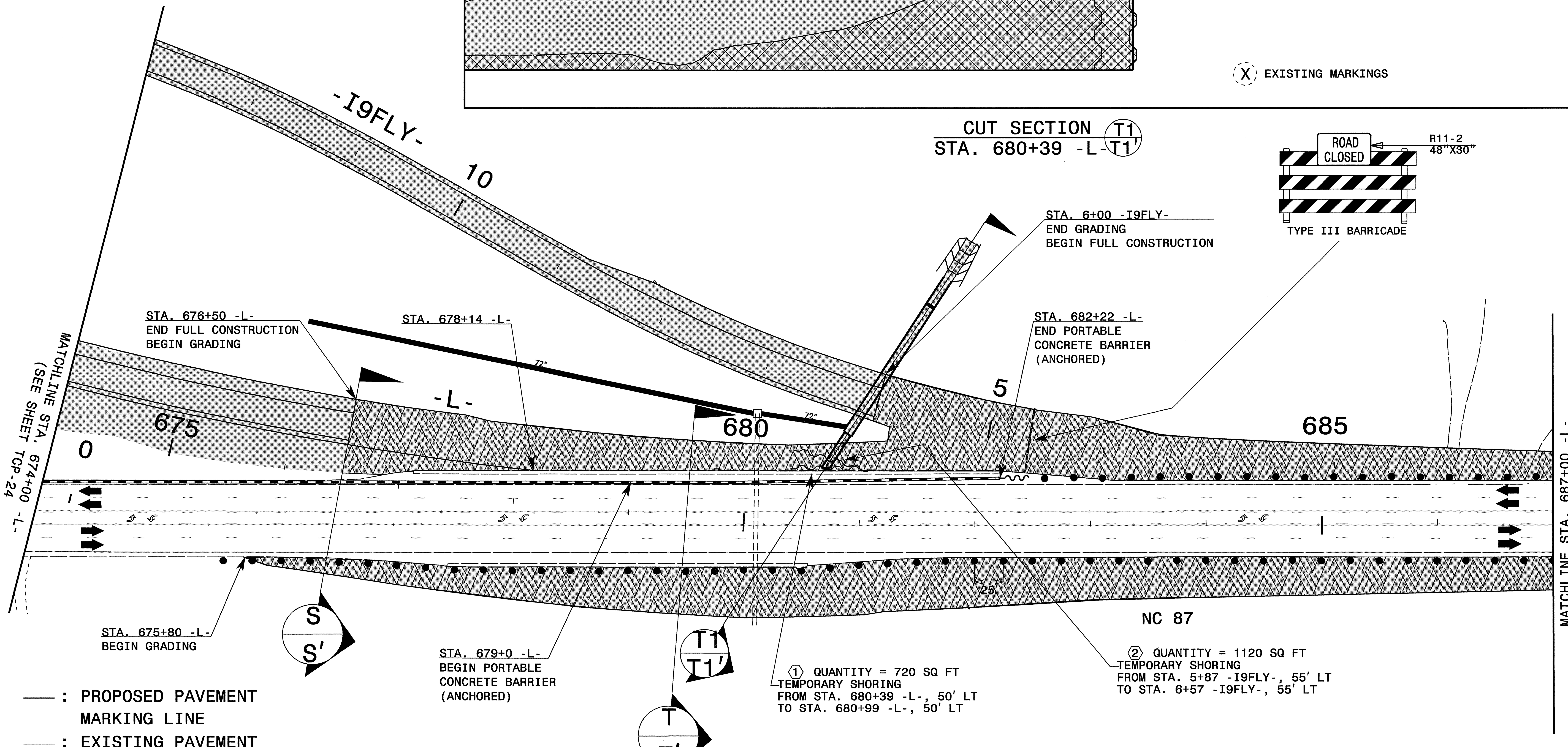
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

12-AUG-2009 09:05
\\Dot\dfsroot0\NSProj\tipprojects-r\r2417c\traffic\traffiscontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_24.dgn
dhayes AT WZTC244738



CUT SECTION T1
STA. 680+39 -L- T1′



—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

↰ : QA ↰↑ : QD ↔↑ : QG

↱ : QB ↑↱ : QE

↑ : QC ↰↱ : QF

↱ : EXISTING PAVEMENT MARKING SYMBOL

REFER TO SHEET TCP-26 FOR CUT SECTIONS S-S′ & T-T′

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard, Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

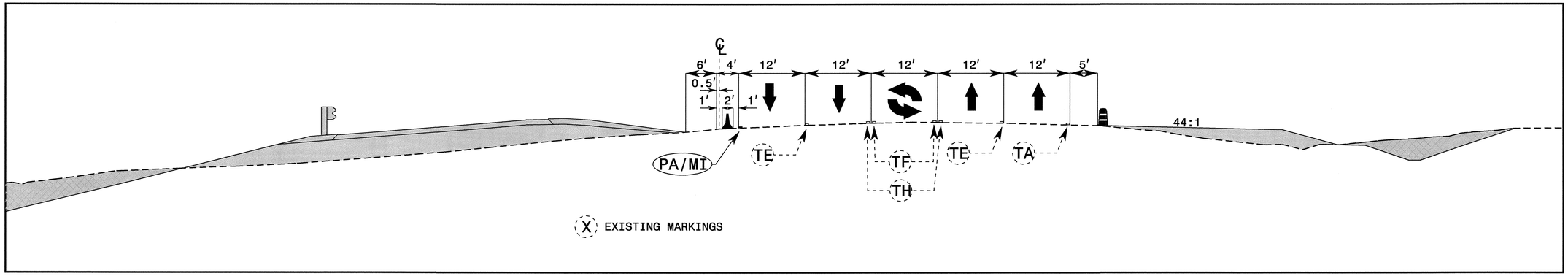
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

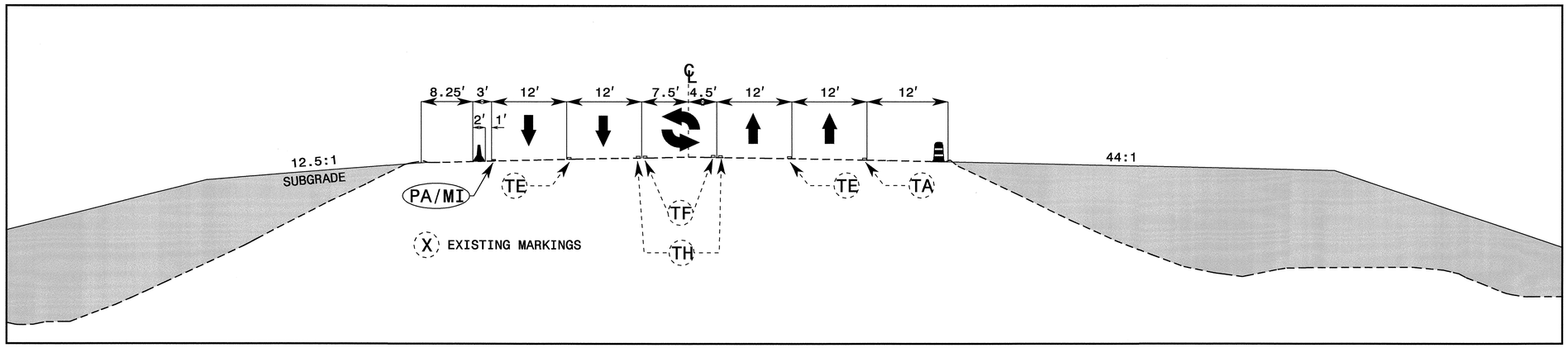
CADD FILE

12-AUG-2009 09:15
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_25.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-26



CUT SECTION S / S′
STA. 676+50 -L-



CUT SECTION T / T′
STA. 679+50 -L-

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I DETAIL

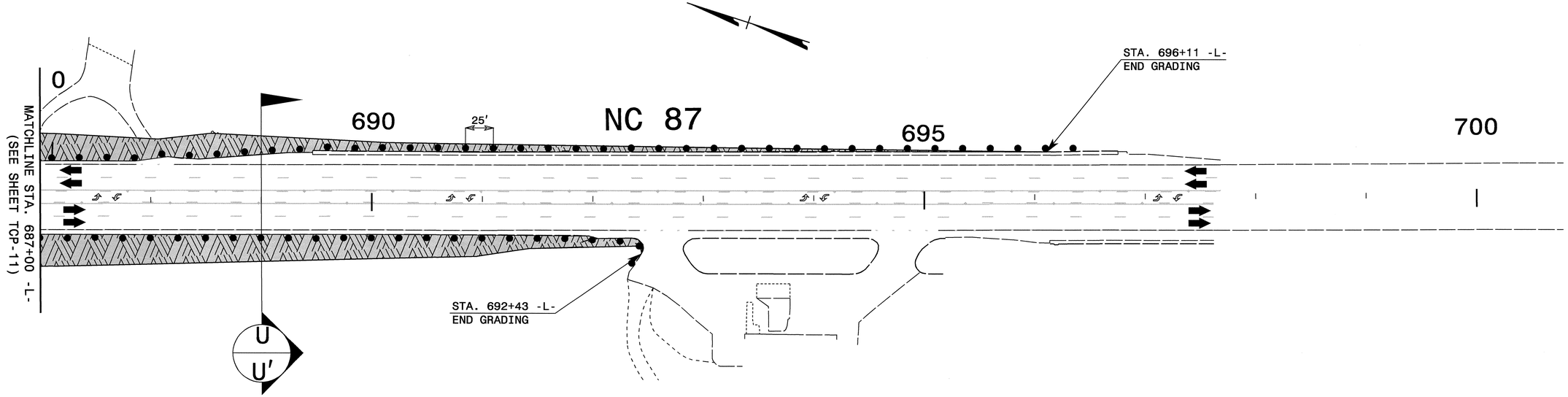
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

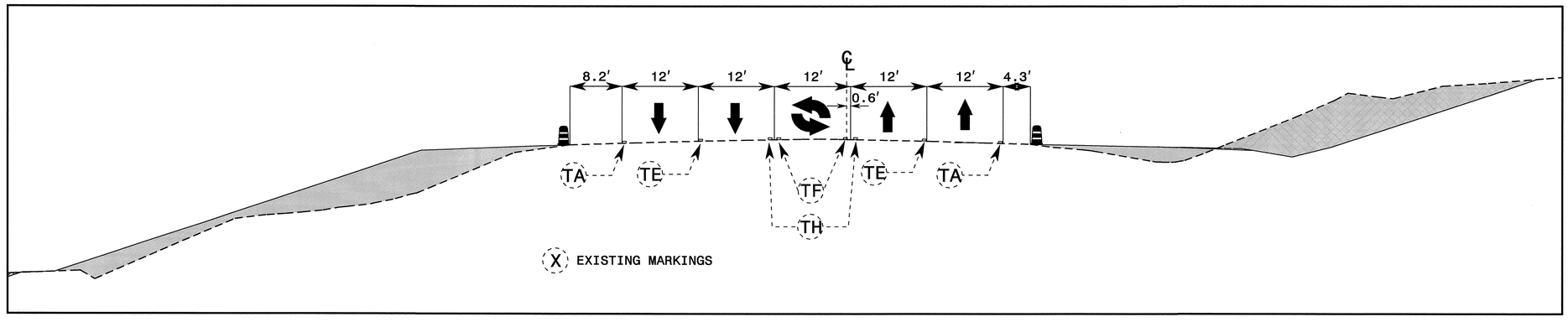
REVISIONS

CADD FILE

12-AUG-2009 09:05
\\Dot\dfsroot\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\top\phase I\R-2417C_TC_TCP_PHI_TCP-26.dgn
dhayes AT WZ1C244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-27





CUT SECTION $\frac{U}{U'}$
STA. 689+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

APPROVED J.W. Woolard, Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

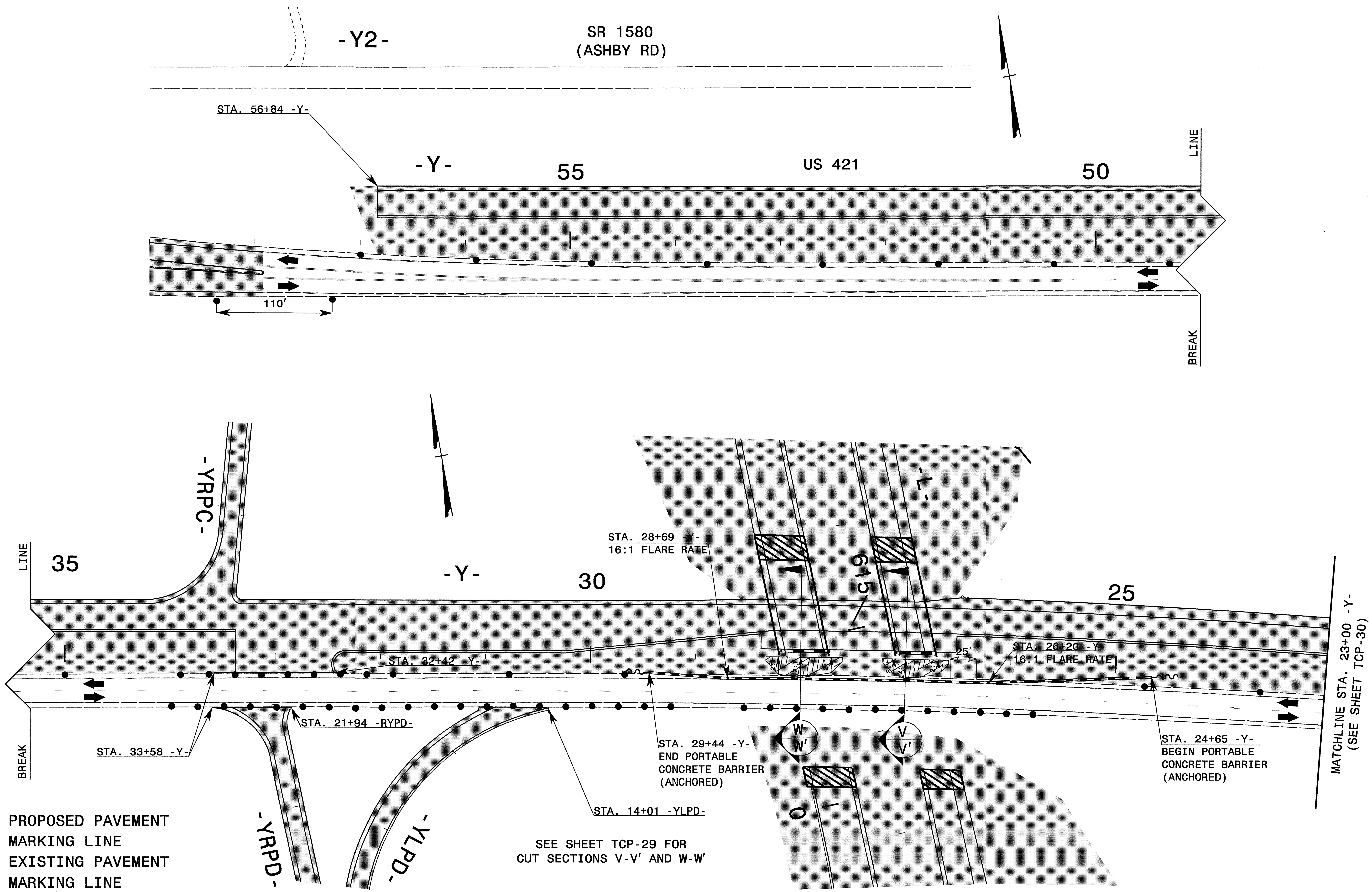
PHASE I DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

12-AUG-2009 09:04
\\Dot\dfsroot\NSProj\tipprojects-r\r2417c\traffic\traffiicontrol\tcp\phase I\R-2417C_TC_TCP_PHI_TCP_27.dgn
dhayes AT NZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-28



SEE SHEET TCP-29 FOR
CUT SECTIONS V-V′ AND W-W′

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

TEMPORARY SLOPE

* DIRECTION OF DOWNWARD SLOPE

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

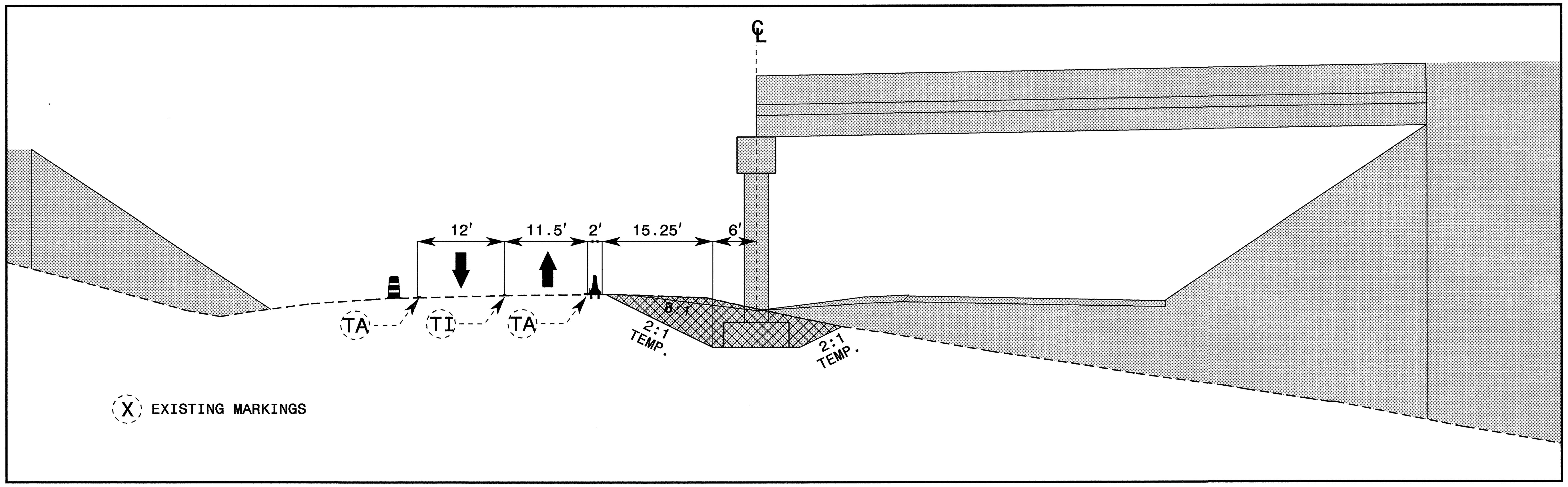
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

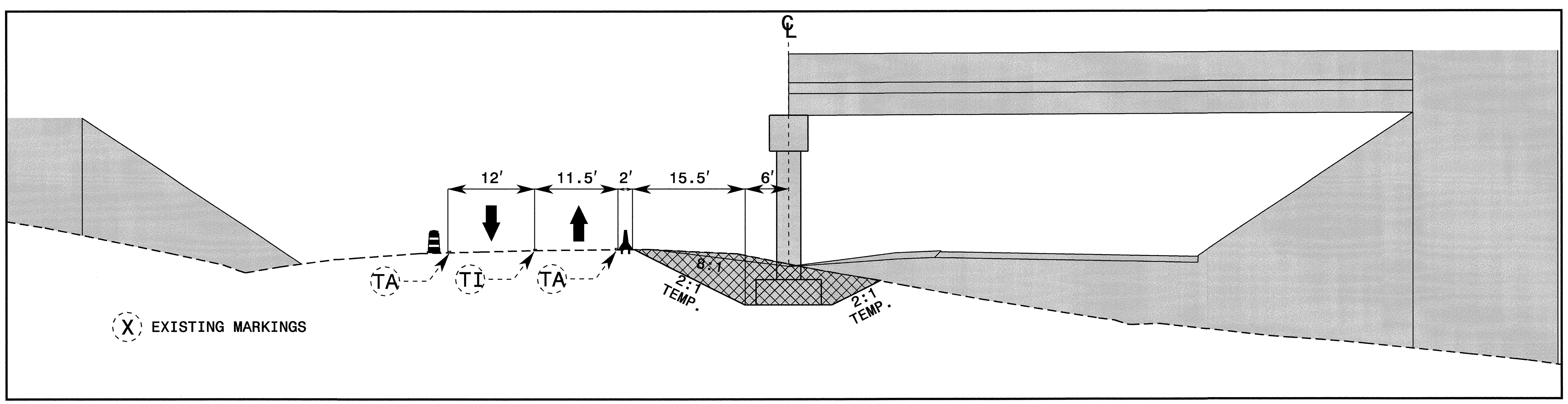
CADD FILE

12-AUG-2009 09:04
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\phase i\R-2417C_TC_TCP_PHI_TCP_28.dgn
ahayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-29



CUT SECTION (V/V')
STA. 27+00 -Y-



CUT SECTION (W/W')
STA. 28+00 -Y-

APPROVED: J. W. Woolard, Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I DETAIL

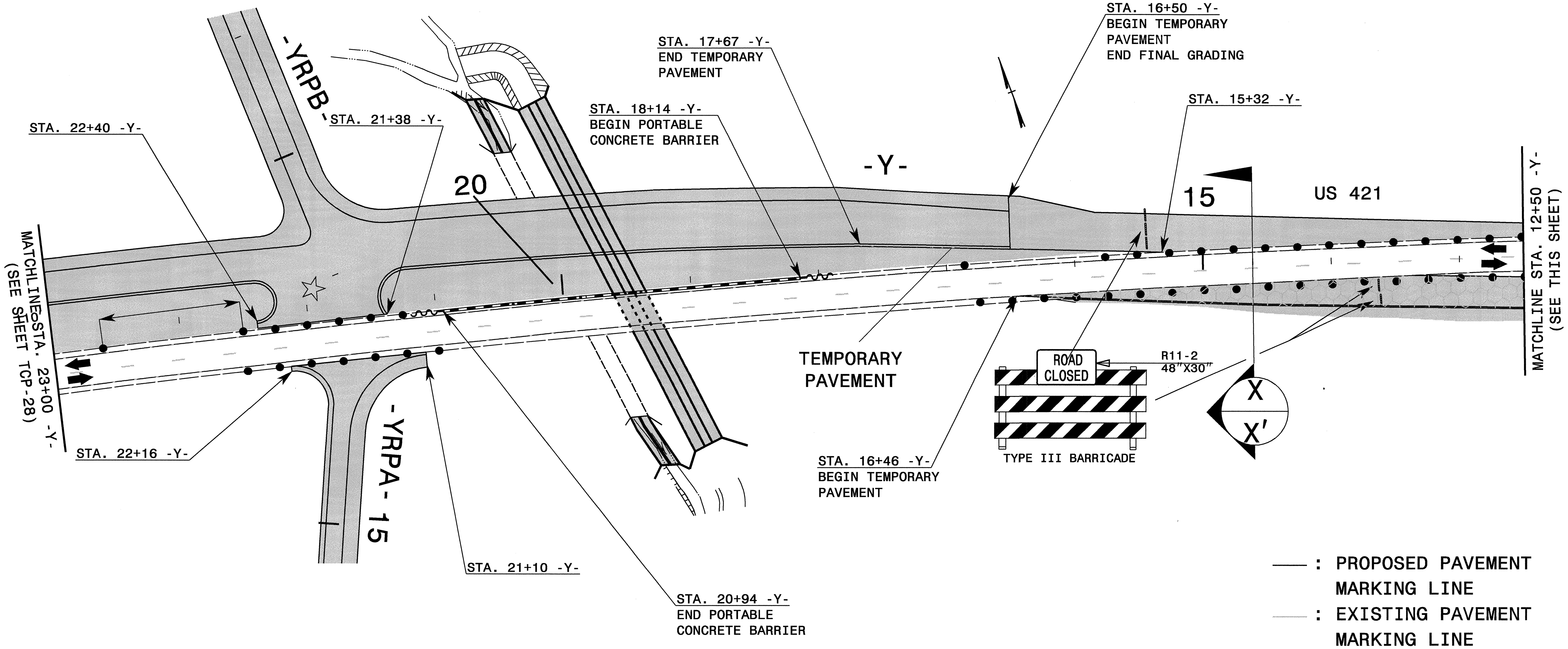
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-30



—— : PROPOSED PAVEMENT MARKING LINE

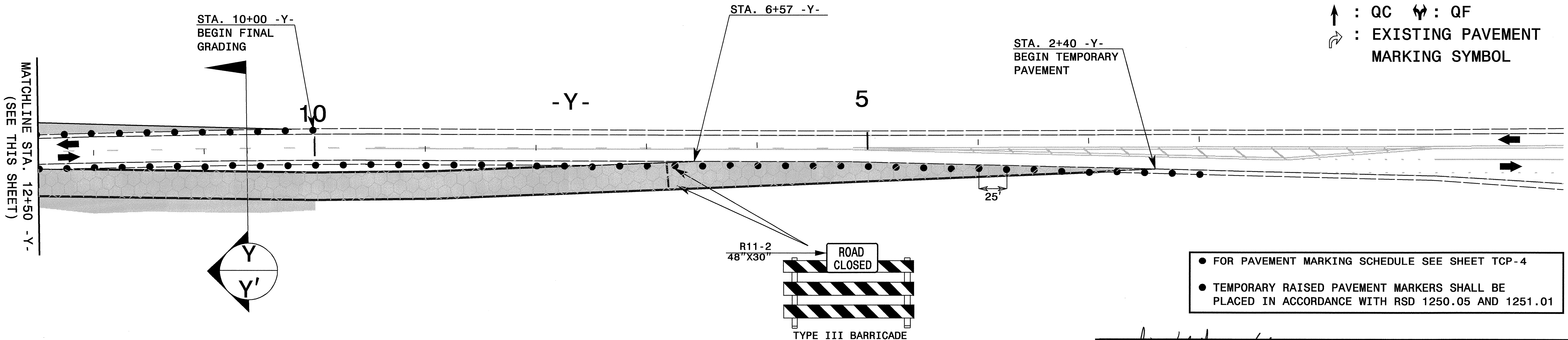
—— : EXISTING PAVEMENT MARKING LINE

↰ : QA ⮤ : QD ✥ : QG

↱ : QB ⮥ : QE

↑ : QC ⮁ : QF

↱ : EXISTING PAVEMENT MARKING SYMBOL



- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

REFER TO SHEET TCP-31 FOR CUT SECTIONS X-X' AND Y-Y'

APPROVED: J.W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

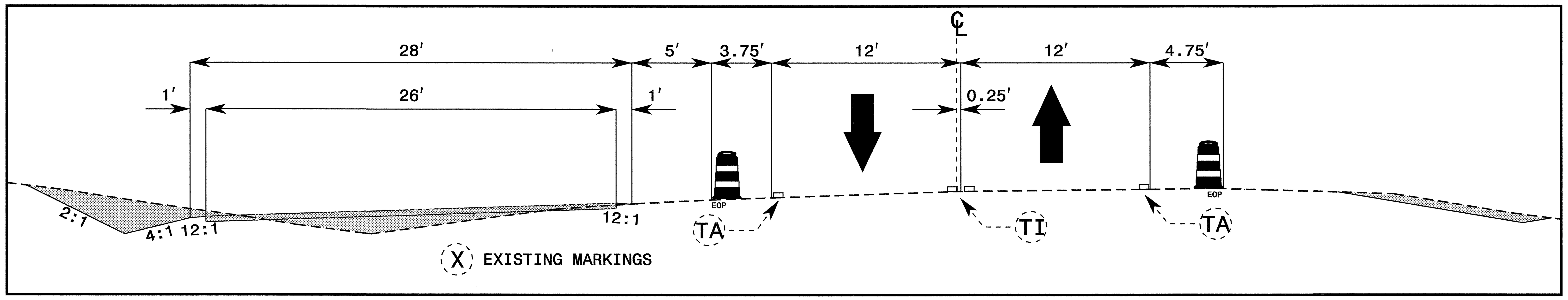
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

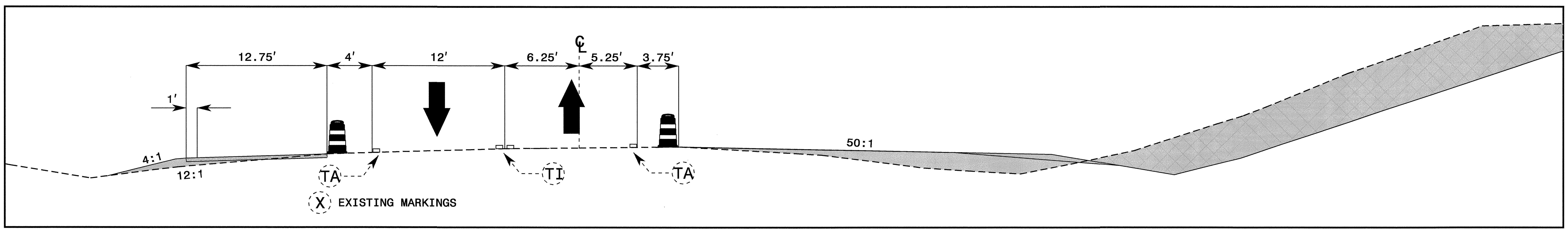
CADD FILE

12-AUG-2009 09:03
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\Phase I\R-2417C_TC_TCP_PHI_TCP_30.dgn
ahayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-31



CUT SECTION X
STA. 10+50 -Y- X′



CUT SECTION Y
STA. 14+50 -Y- Y′

12-AUG-2009 09:02
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\Phase I\R-2417C_TC_TCP_PHI_TCP_31.dgn
ahayes AT WZTC244738

APPROVED: J.W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE I DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-32

NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

NOTE: ALL FIRST ROW SYMBOLS ARE 60′ FROM STOPBAR TO TAIL OF SYMBOL.

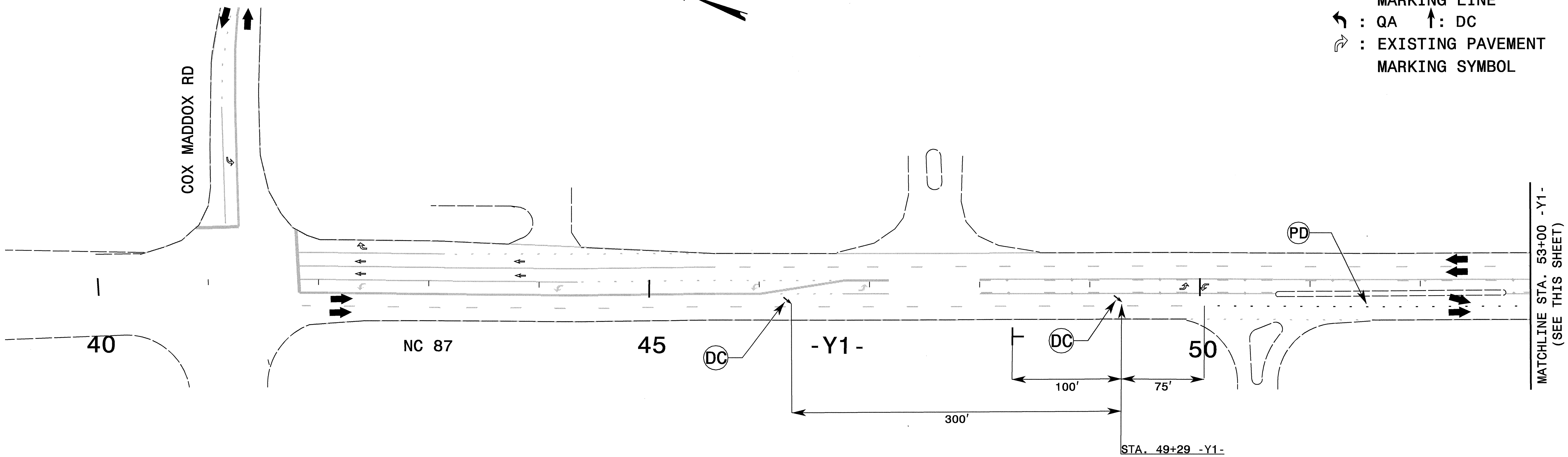
NOTE: ALL SYMBOLS ARE 150′ FROM SYMBOL TO SYMBOL UNLESS NOTED ON PLAN SHEETS.

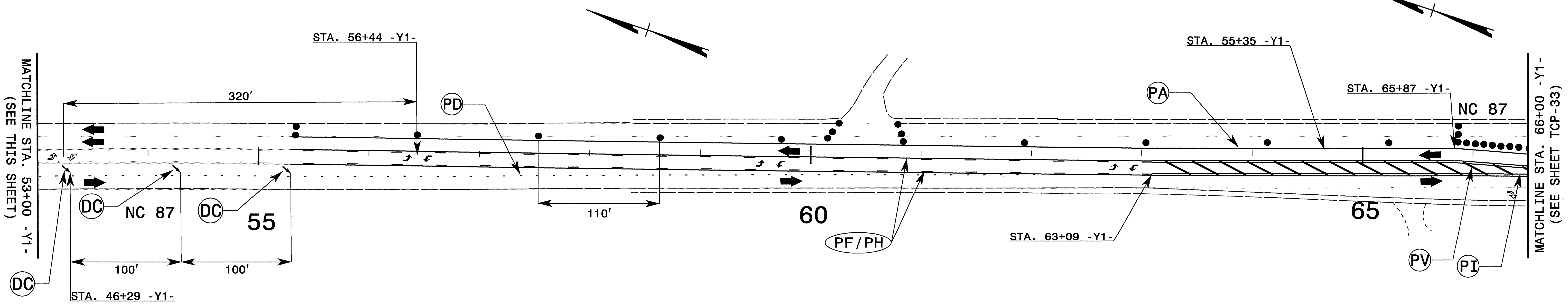
—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

↰ : QA ↑ : DC

↱ : EXISTING PAVEMENT MARKING SYMBOL





- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard, Jr. DATE: 8/12/09

SEAL — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J. W. WOOLARD, JR.

PHASE II DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

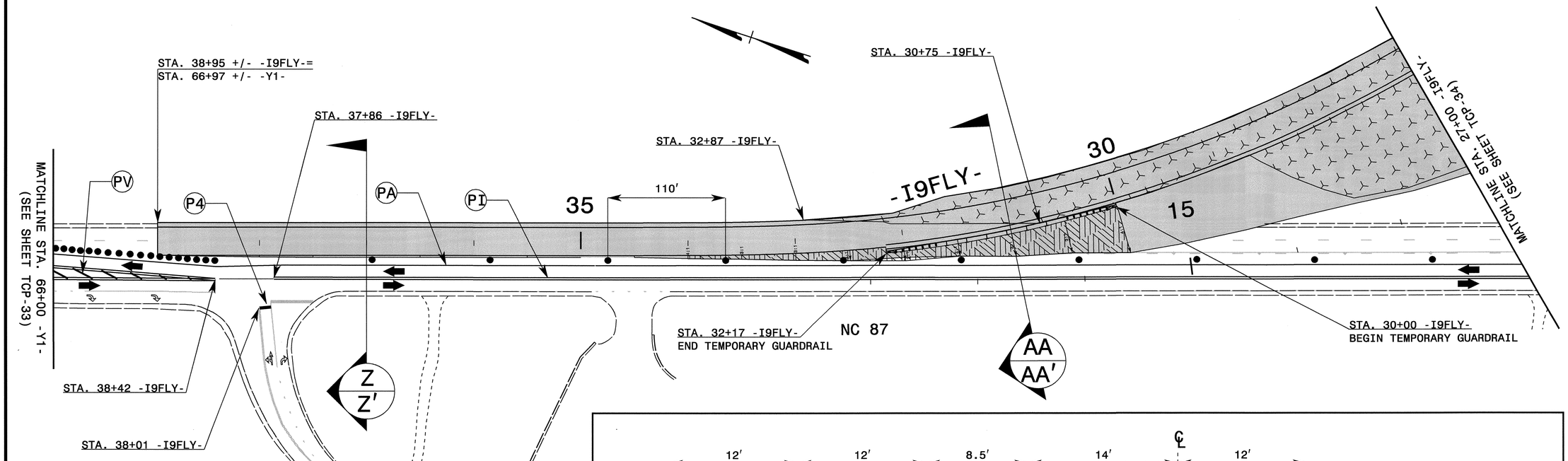
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

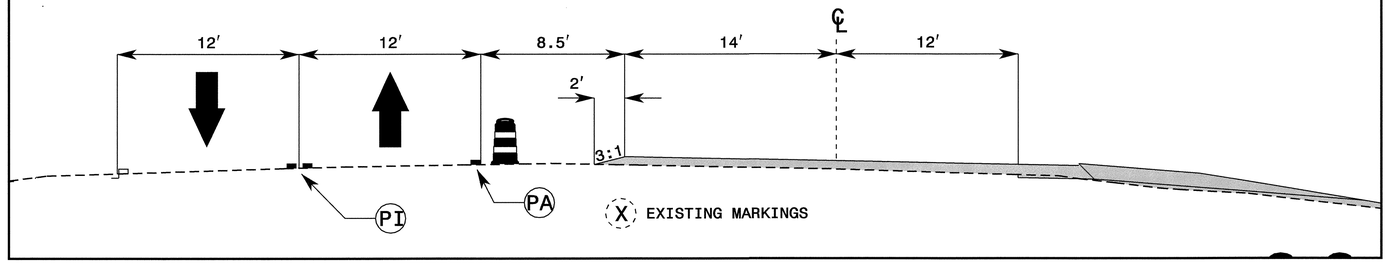
REVISIONS

CADD FILE

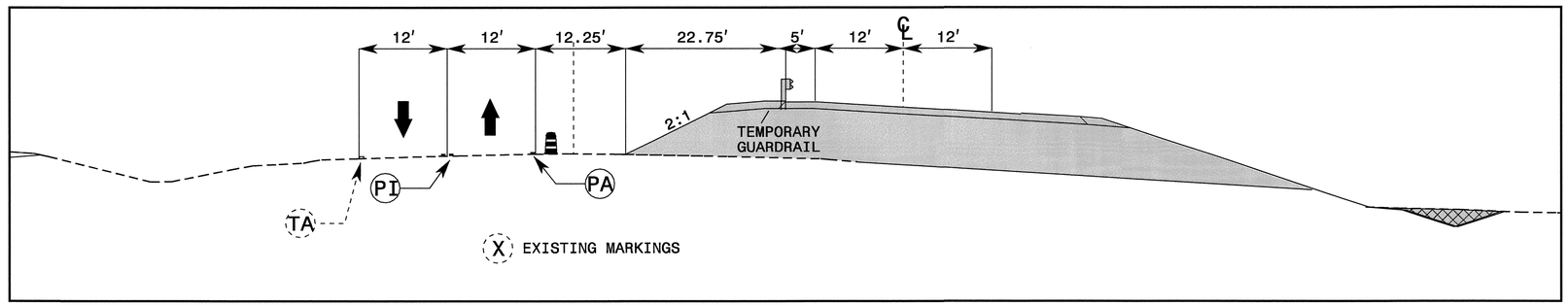
12-AUG-2009 09:02
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseII\R-2417C_TC_TCP_PHII_TCP_32.dgn
ahayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-33





CUT SECTION Z / Z'
STA. 37+00 -I9FLY-



CUT SECTION AA / AA'
STA. 31+00 -I9FLY-

TEMPORARY SLOPE
* DIRECTION OF DOWNWARD SLOPE

ONGOING CONSTRUCTION

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

↰ : QA ↰ : QD ↰ : QG

↱ : QB ↱ : QE

↑ : QC ↑ : QF

: EXISTING PAVEMENT MARKING SYMBOL

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED J. W. Woolard DATE: 8/12/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

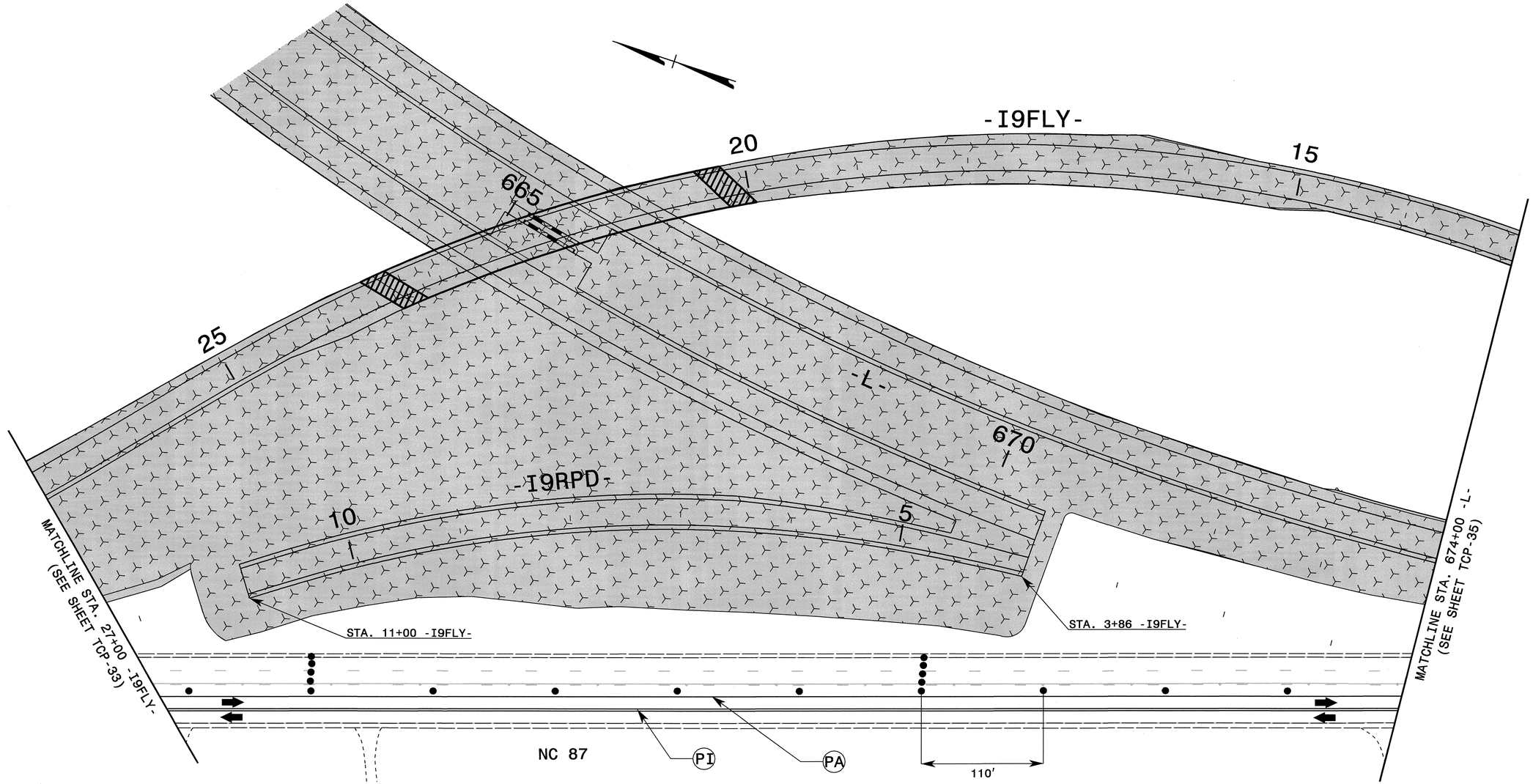
PHASE II DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-34



—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD

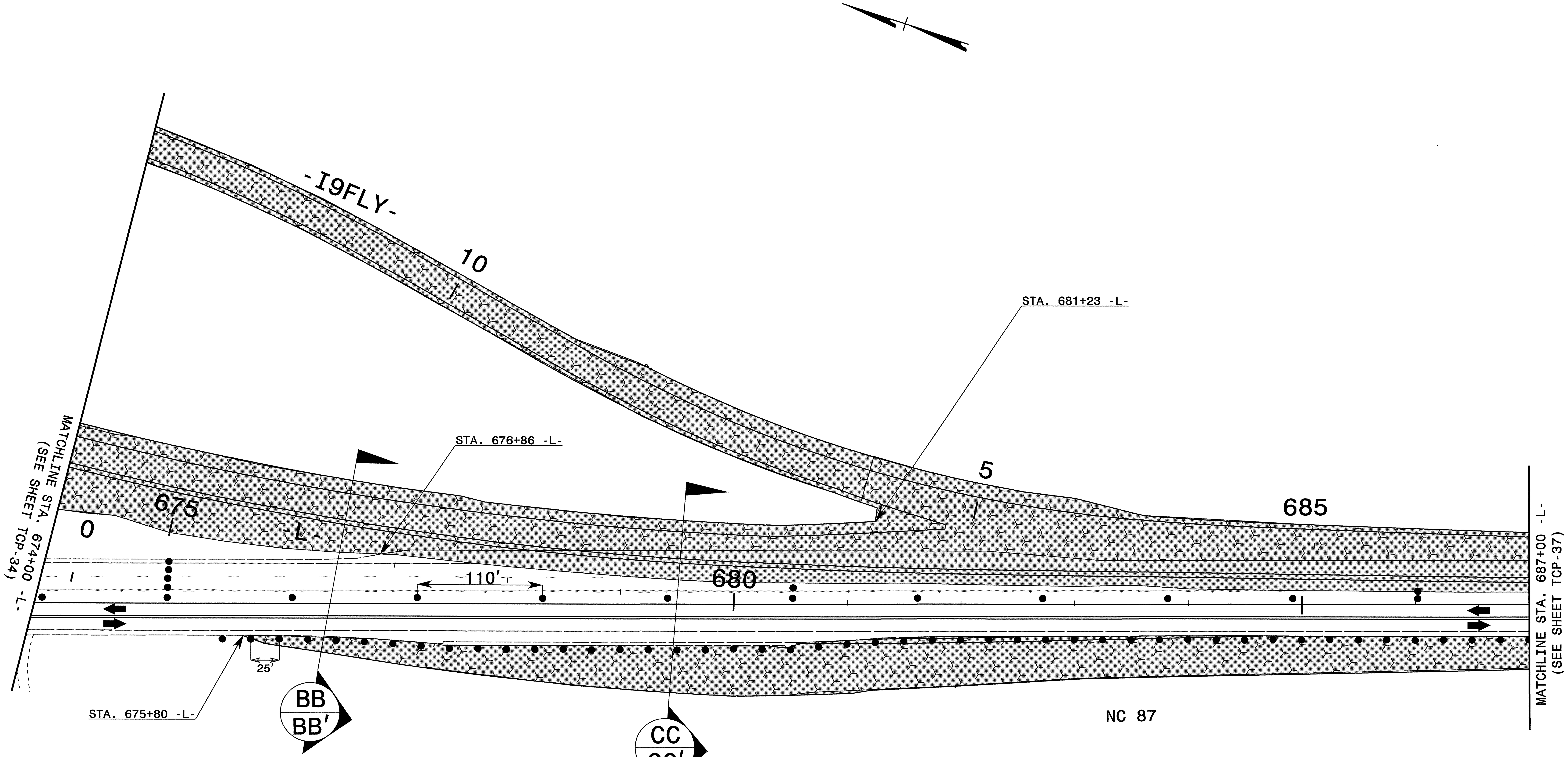
PHASE II DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS
CADD FILE

12-AUG-2009 09:01
\\Dotdfsroot01\NSProj\Tipprojects-r\r2417c\traffic\trafficcontrol\top\Phase1\R-2417C_TC_TOP_PHI_TCP_34.dgn
dnoyes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-35



—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

↰ : QA ↰↑ : QD ↰↱ : QG

↱ : QB ↑↱ : QE

↑ : QC ↰↱ : QF

↱ : EXISTING PAVEMENT MARKING SYMBOL

REFER TO SHEET TCP-36 FOR CUT SECTIONS BB-BB′, CC-CC′

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

APPROVED: J.W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE II DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

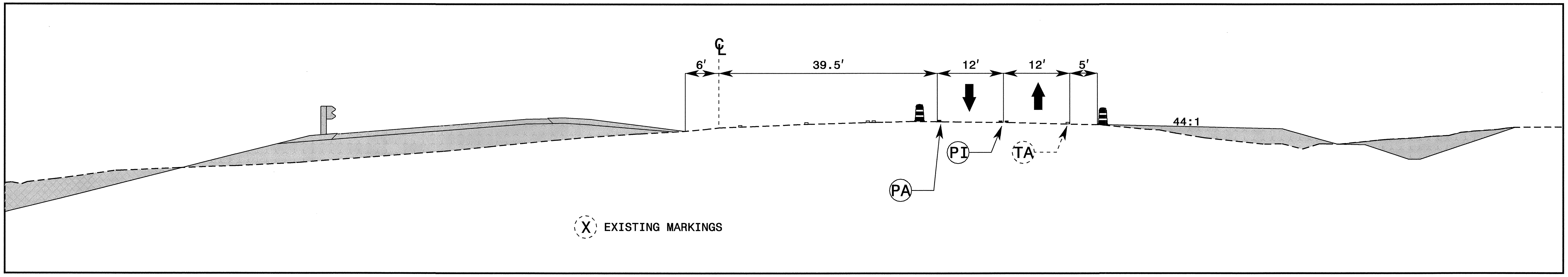
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

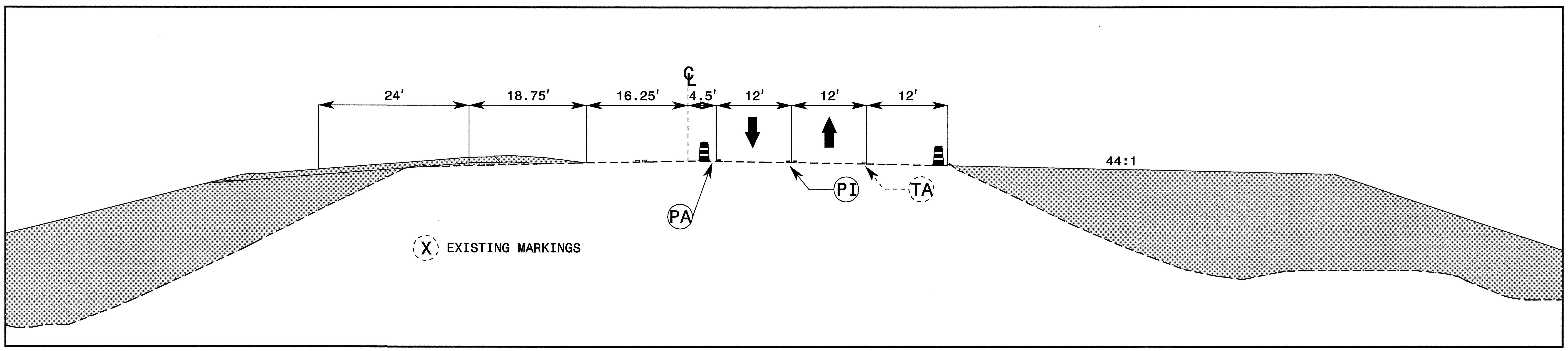
CADD FILE

12-AUG-2009 09:01
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseII\R-2417C_TC_TCP_PHII_TCP_35.dgn
ahayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-36



CUT SECTION (BB / BB′)
STA. 676+50 -L-



CUT SECTION (CC / CC′)
STA. 679+50 -L-

APPROVED: J.W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE II DETAIL

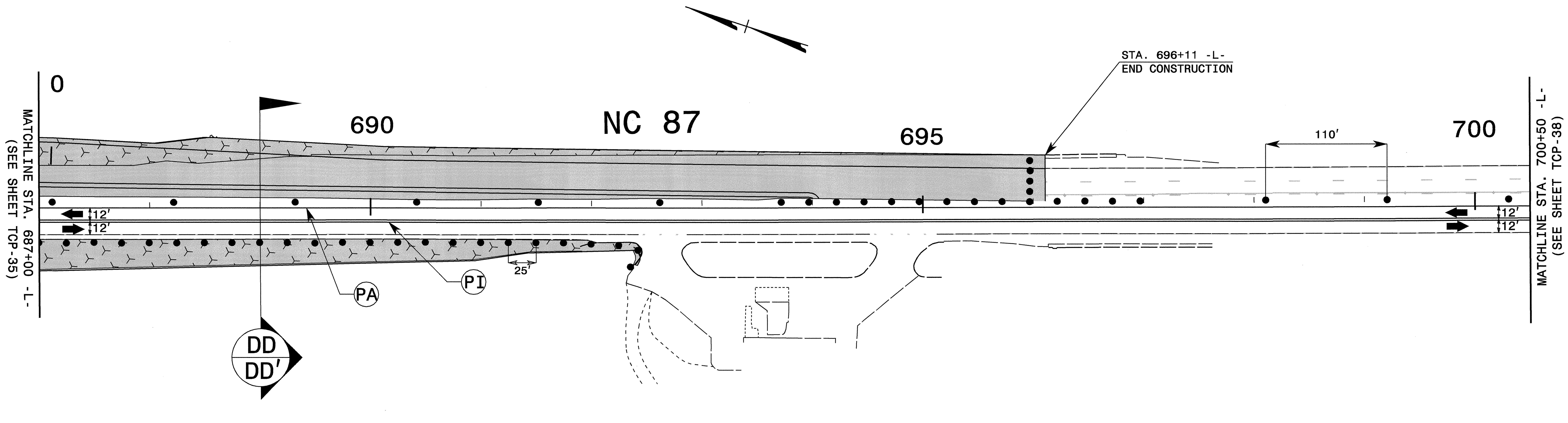
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

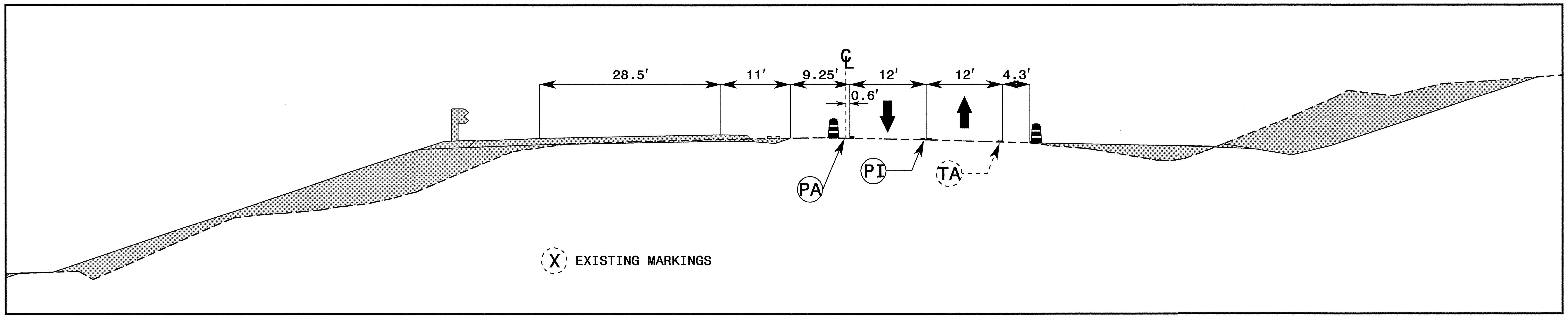
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-37





CUT SECTION DD/DD'
STA. 689+00 -L-

—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

12-AUG-2009 09:00
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseII\R-2417C_TC_TCP_PHII_TCP_37.dgn
ahayes AT WZTC244738

APPROVED: J.W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE II DETAIL

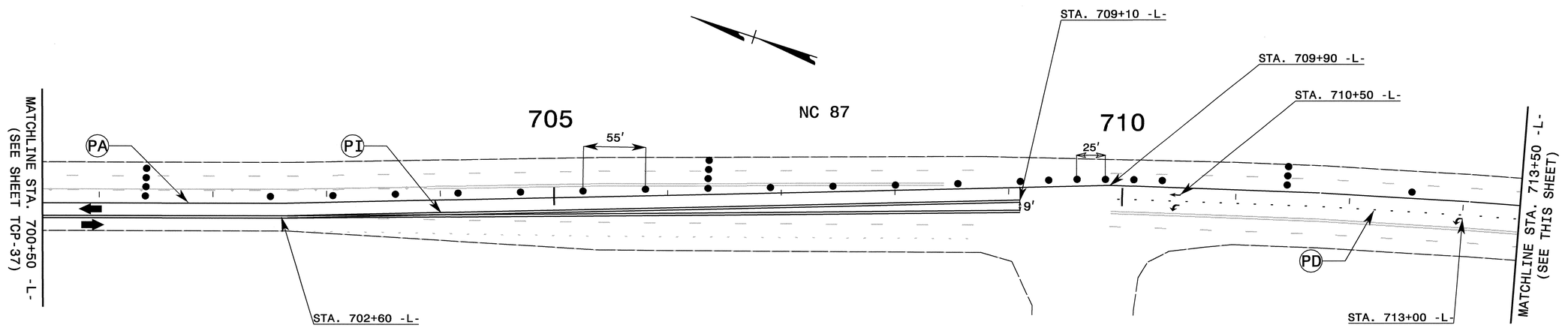
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

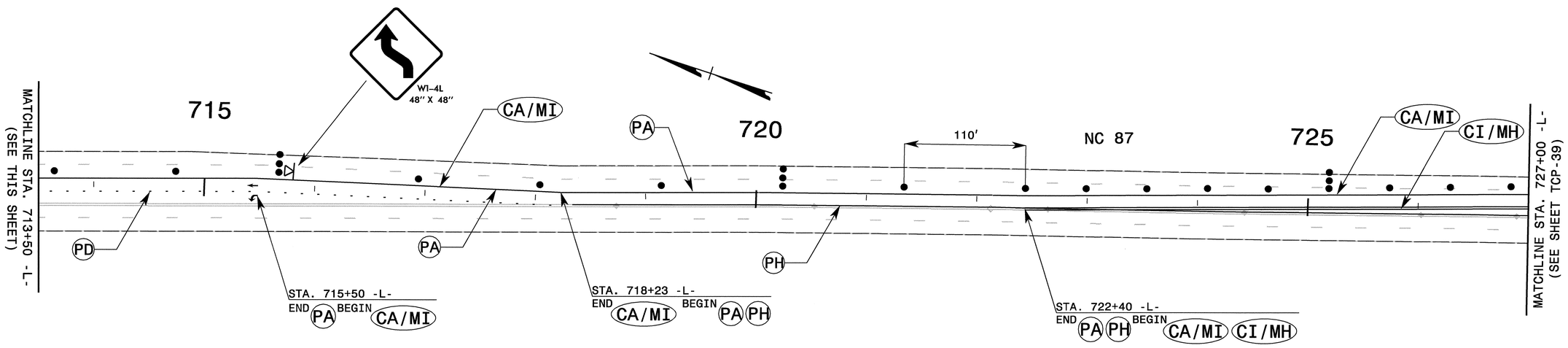
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J.W. Woolard, Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLARD, JR.

PHASE II DETAIL

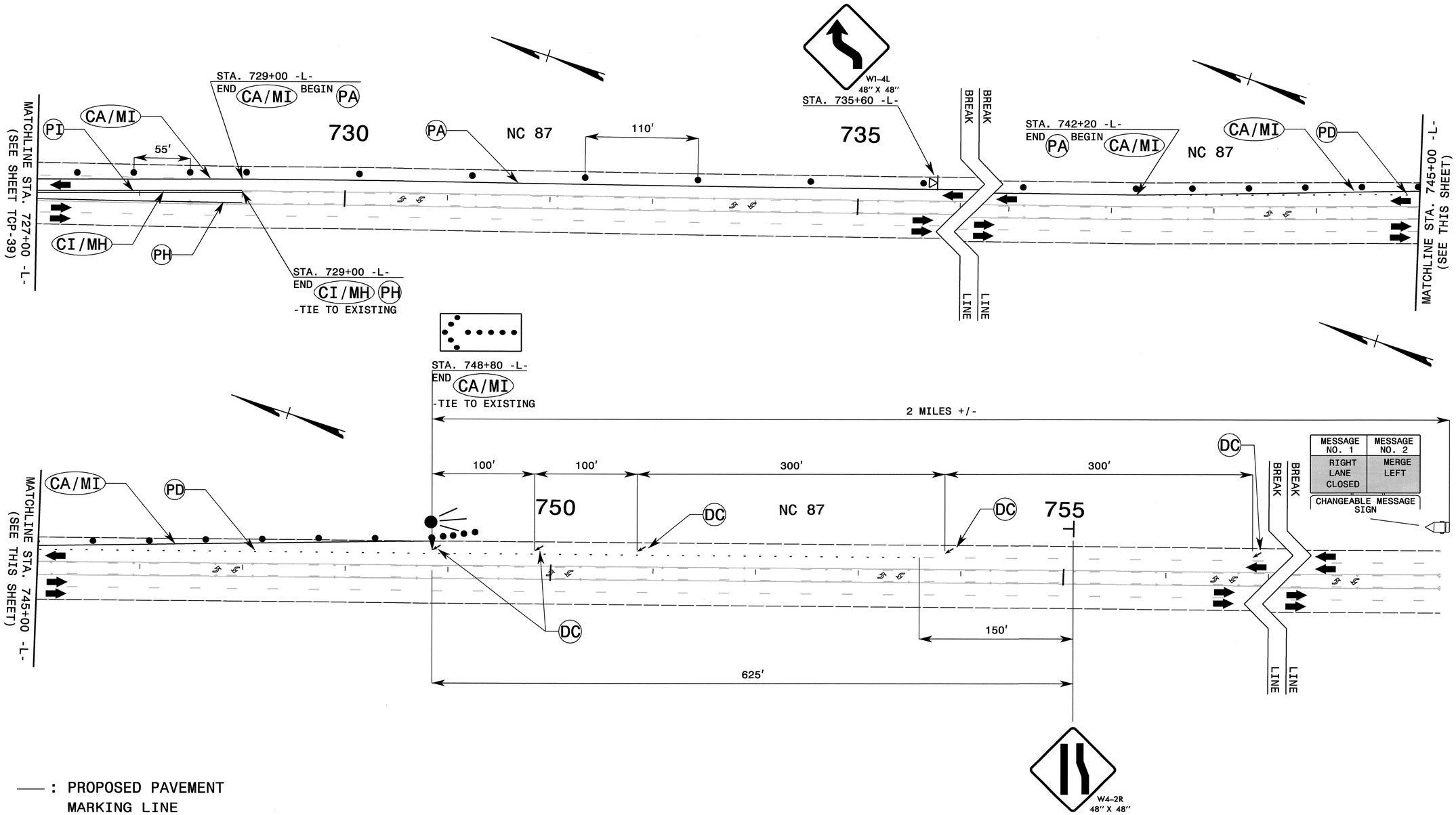
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

CADD FILE

12-AUG-2009 09:00
\\Dot\dfsroot\NSPro\ttpprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseII\R-2417C_TC_TCP_PHII_TCP_38.dgn
dnayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-39



—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard DATE: 3/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE II DETAIL

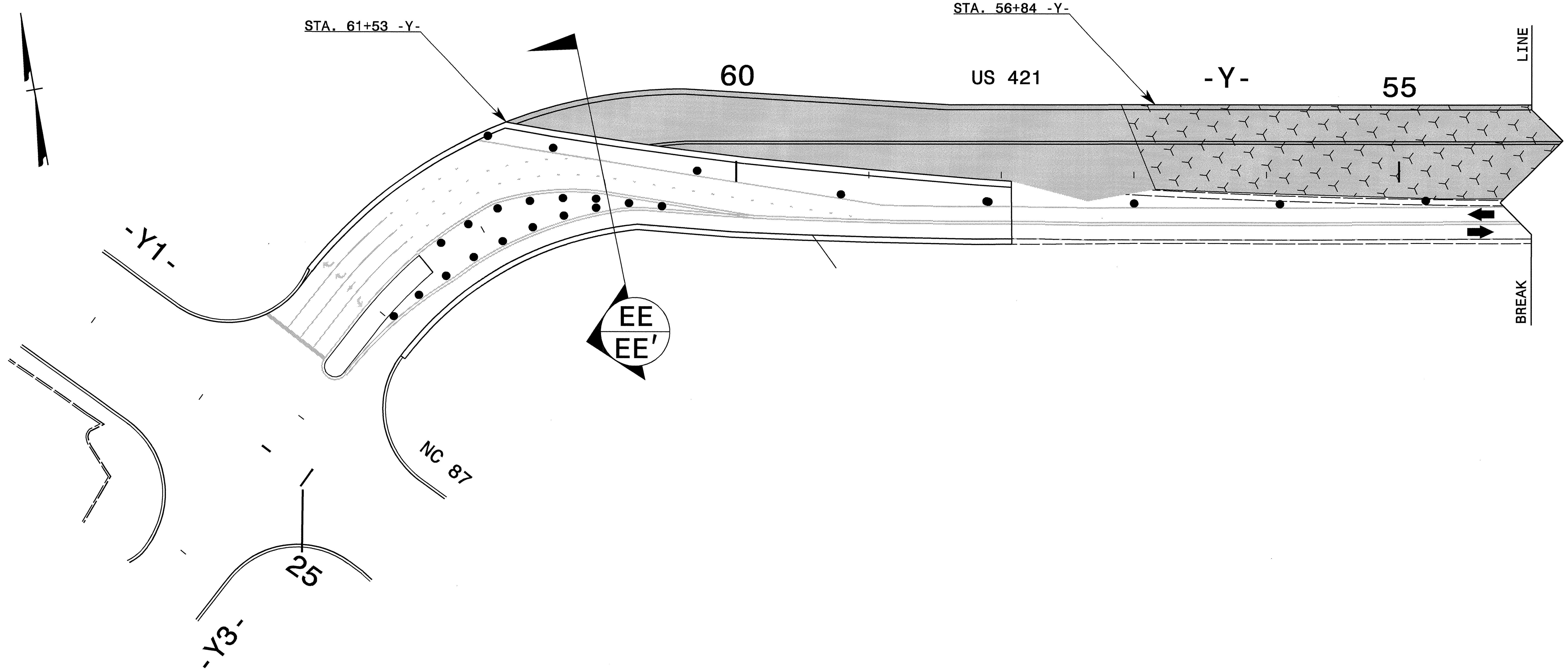
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

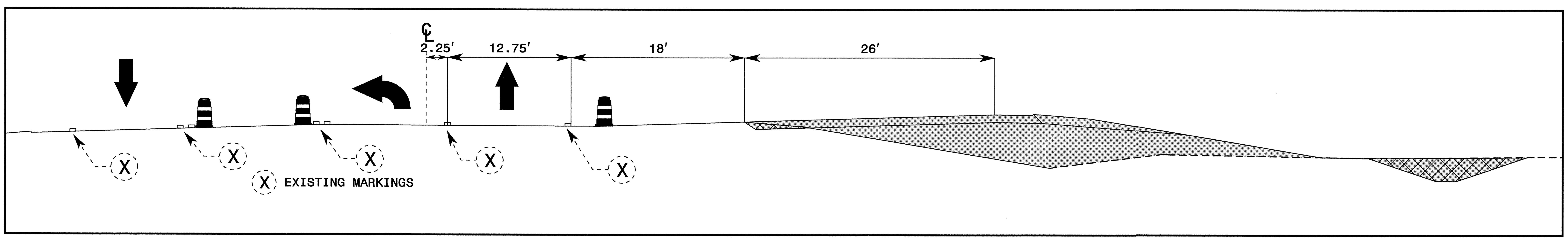
DIVISION OF HIGHWAYS — BRANCH OF TRAFFIC ENGINEERING — TRAFFIC CONTROL

REVISIONS	
CADD FILE	

12-AUG-2009 09:00
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficontrol\tcp\Phase1\R-2417C_TC_TCP_PHII_TCP_39.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-40





CUT SECTION EE / EE'
STA. 61+00 -Y-

APPROVED: J.W. Woolard, Jr. DATE: 8/12/09	PHASE II DETAIL
SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.	

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

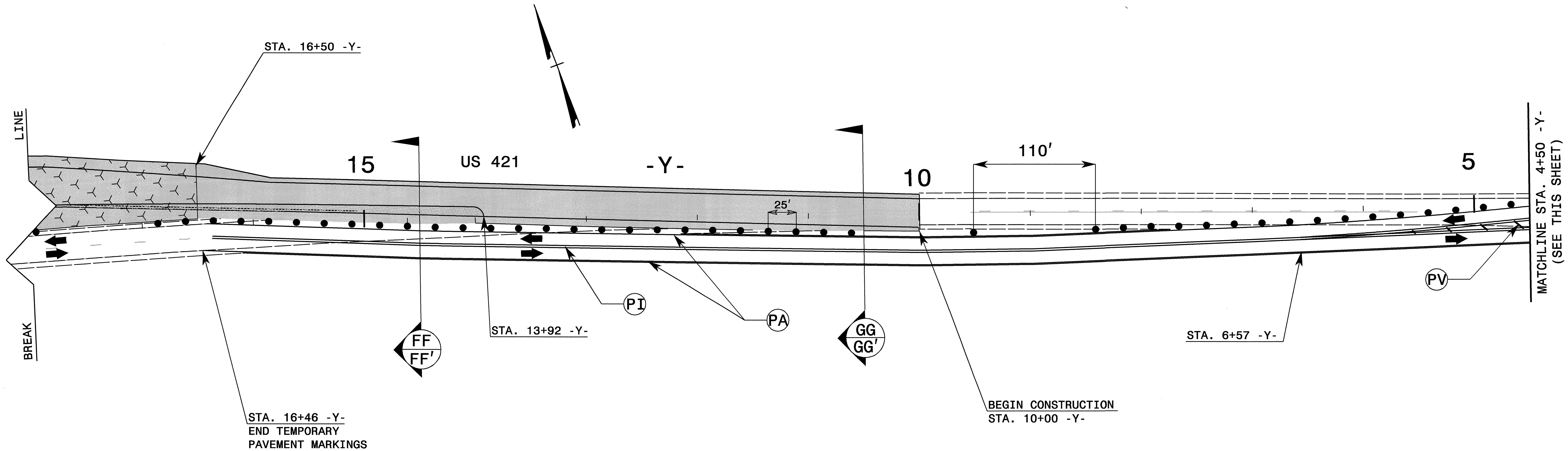
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

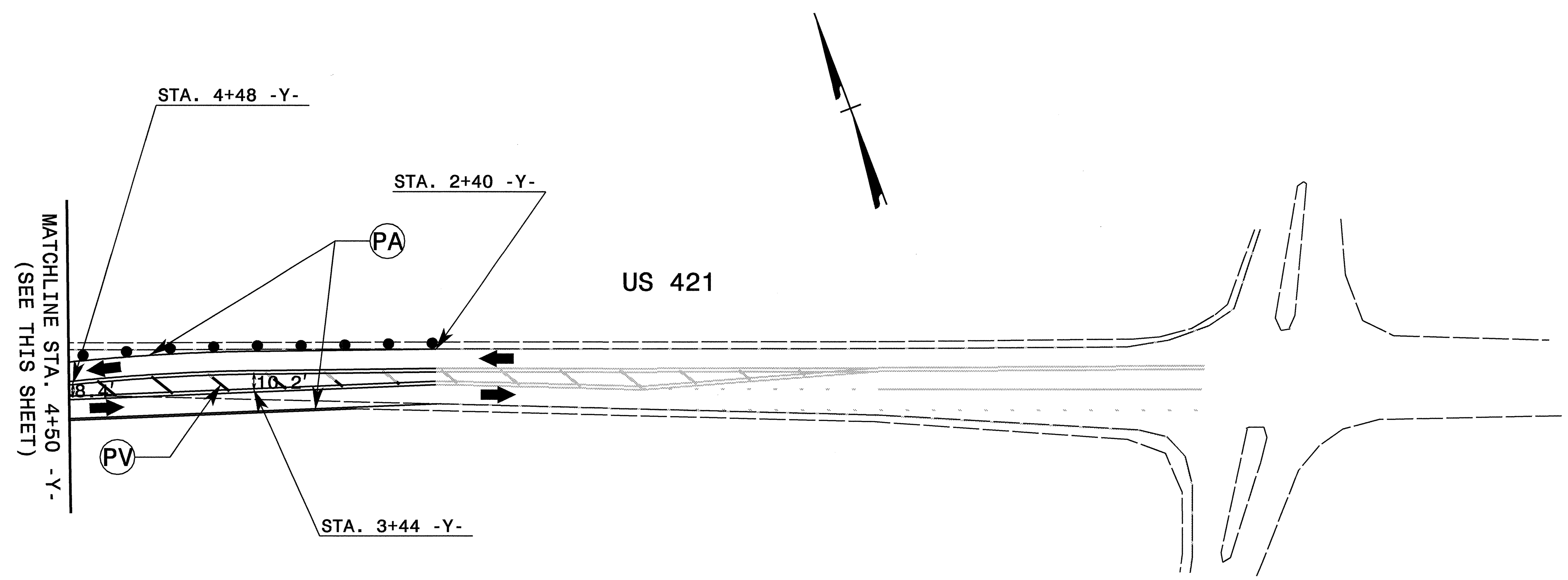
REVISIONS

CADD FILE

12-AUG-2009 08:59
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseII\R-2417C_TC_TCP_PHII_TCP_40.dgn
ahayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-41





REFER TO SHEET TCP-42
FOR CUT SECTIONS FF-FF′ AND GG-GG′

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

—— : PROPOSED PAVEMENT MARKING LINE
—— : EXISTING PAVEMENT MARKING LINE
↰ : QA ⟰ : QD ⟰ : QG
↱ : QB ⟰ : QE
↑ : QC ⟰ : QF
↱ : EXISTING PAVEMENT MARKING SYMBOL

APPROVED: J. W. Woolard, Jr. DATE: 8/12/09

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE II DETAIL

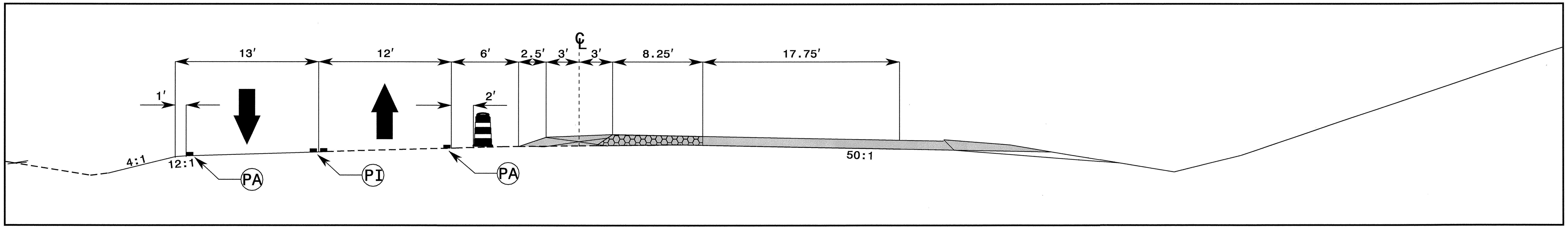
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

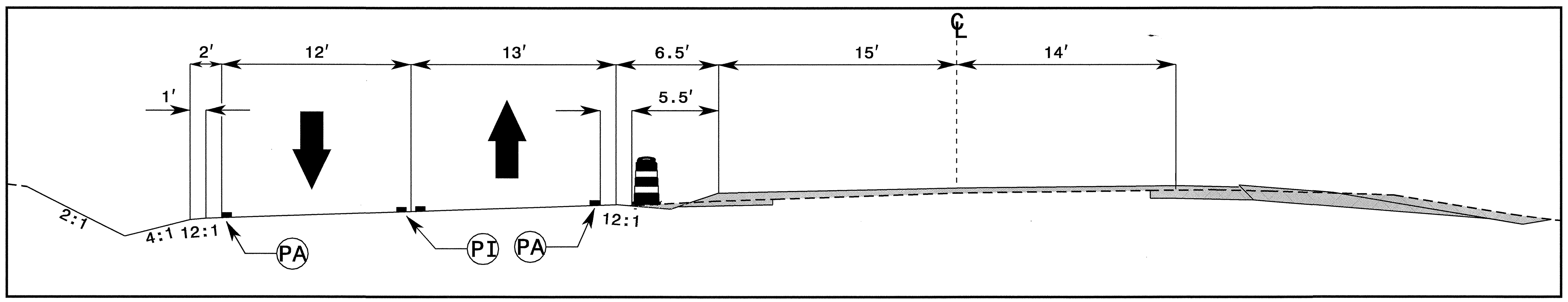
REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-42



CUT SECTION FF/FF'
STA. 14+50 -Y-



CUT SECTION GG/GG'
STA. 10+50 -Y-

12-AUG-2009 08:59
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseII\R-2417C_TC_TCP_PHII_TCP_42.dgn
dhayes AT WZTC244738

APPROVED: J.W. Woolard, Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLARD, JR.

PHASE II DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-43

NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

NOTE: ALL FIRST ROW SYMBOLS ARE 60′ FROM STOPBAR TO TAIL OF SYMBOL.

NOTE: ALL SYMBOLS ARE 150′ FROM SYMBOL TO SYMBOL UNLESS NOTED ON PLAN SHEETS.

—— : PROPOSED PAVEMENT MARKING LINE

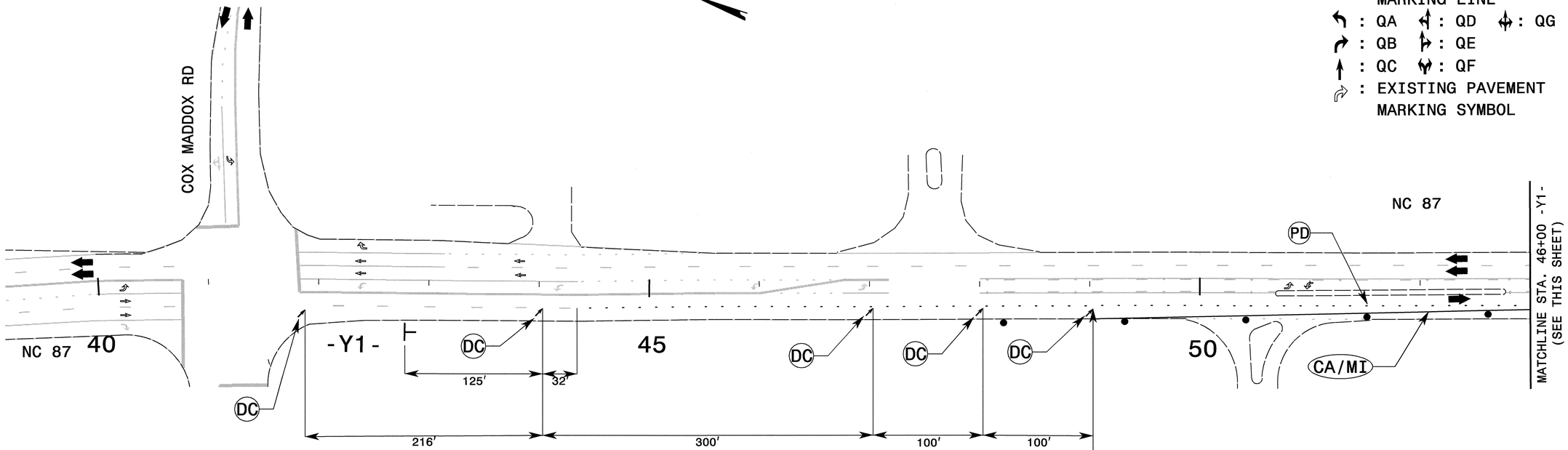
—— : EXISTING PAVEMENT MARKING LINE

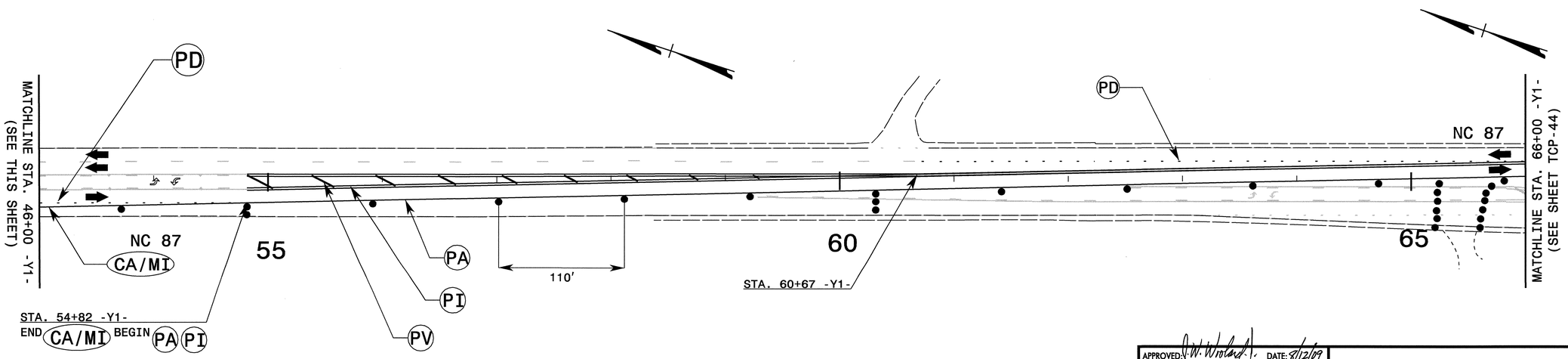
: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL





- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J.W. Woolard Jr. DATE: 8/12/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLARD JR.

PHASE III DETAIL

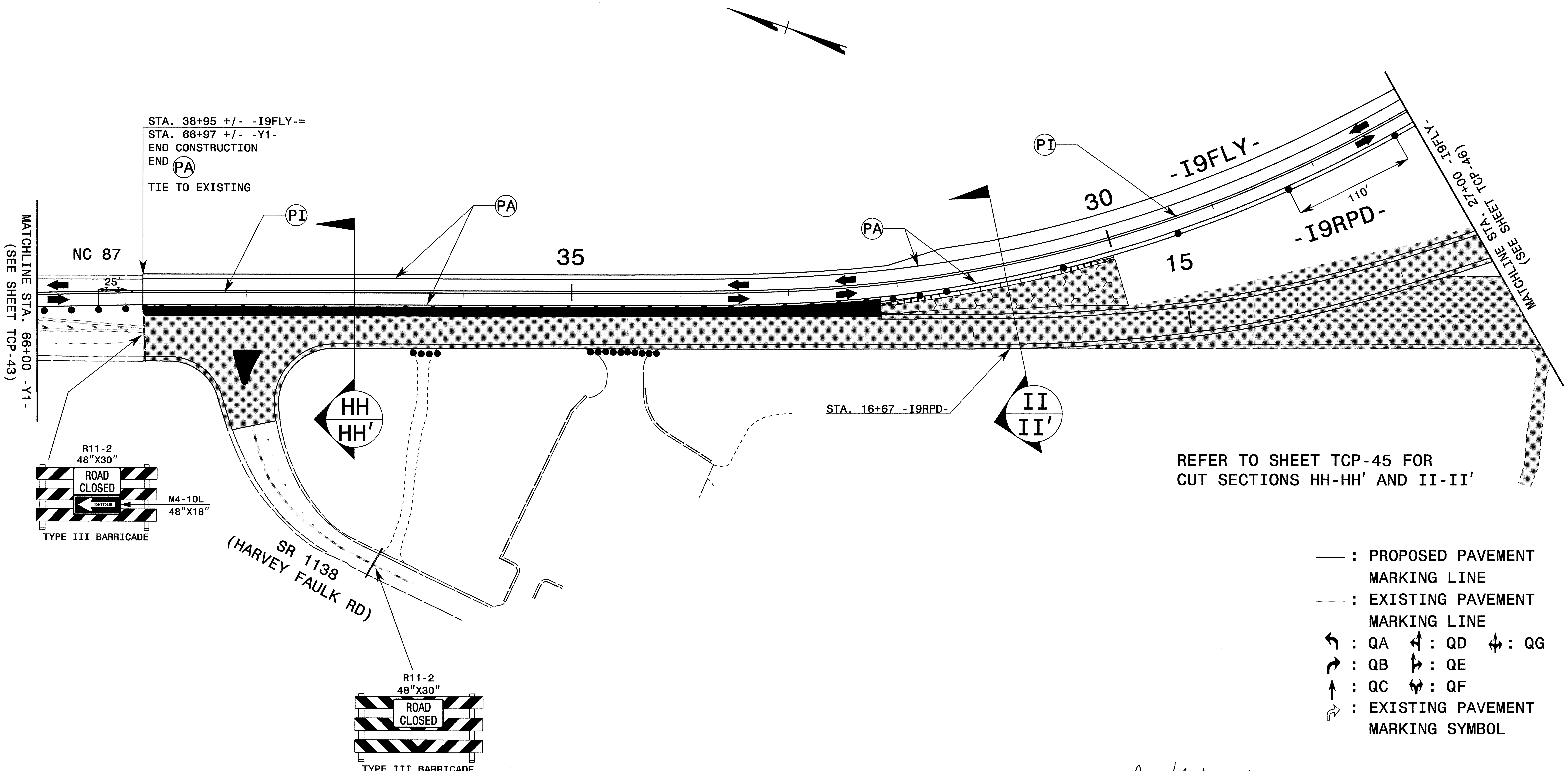
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS

CADD FILE

12-AUG-2009 08:58
\\Dot\dfsroot\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\Phaseiii\R-2417C_TC_TCP_PHIII_TCP_43.dgn
dhayes AT WZTC244f38

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-44



- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

APPROVED: J. W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE III DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

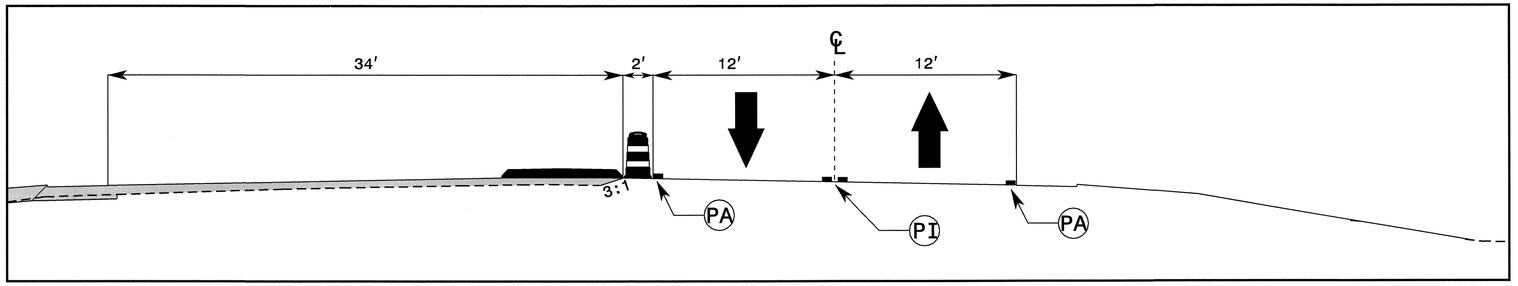
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

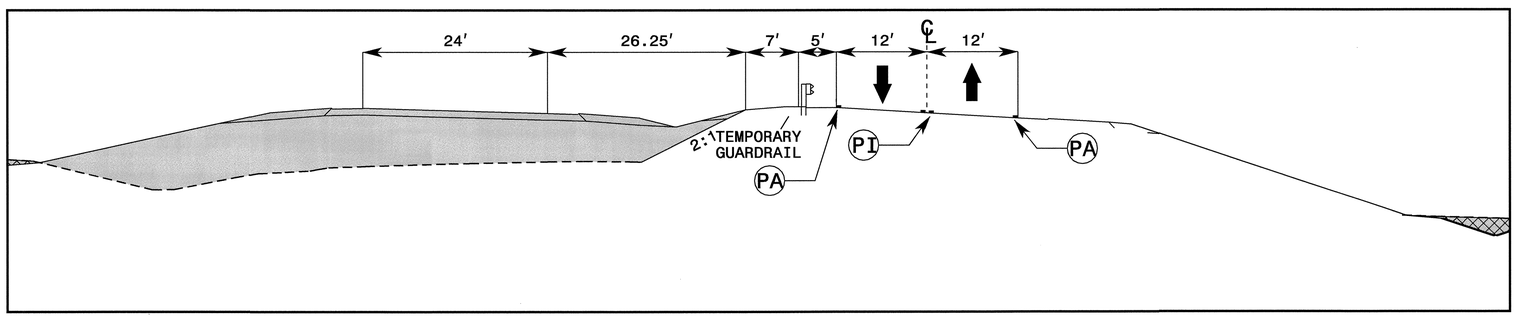
CADD FILE

12-AUG-2009 08:58
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseIII\R-2417C_TC_TCP_PHIII_TCP_44.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-45



CUT SECTION HH
STA. 37+00 -I9FLY- HH'



CUT SECTION II
STA. 31+00 -I9FLY- II'

APPROVED: J. W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

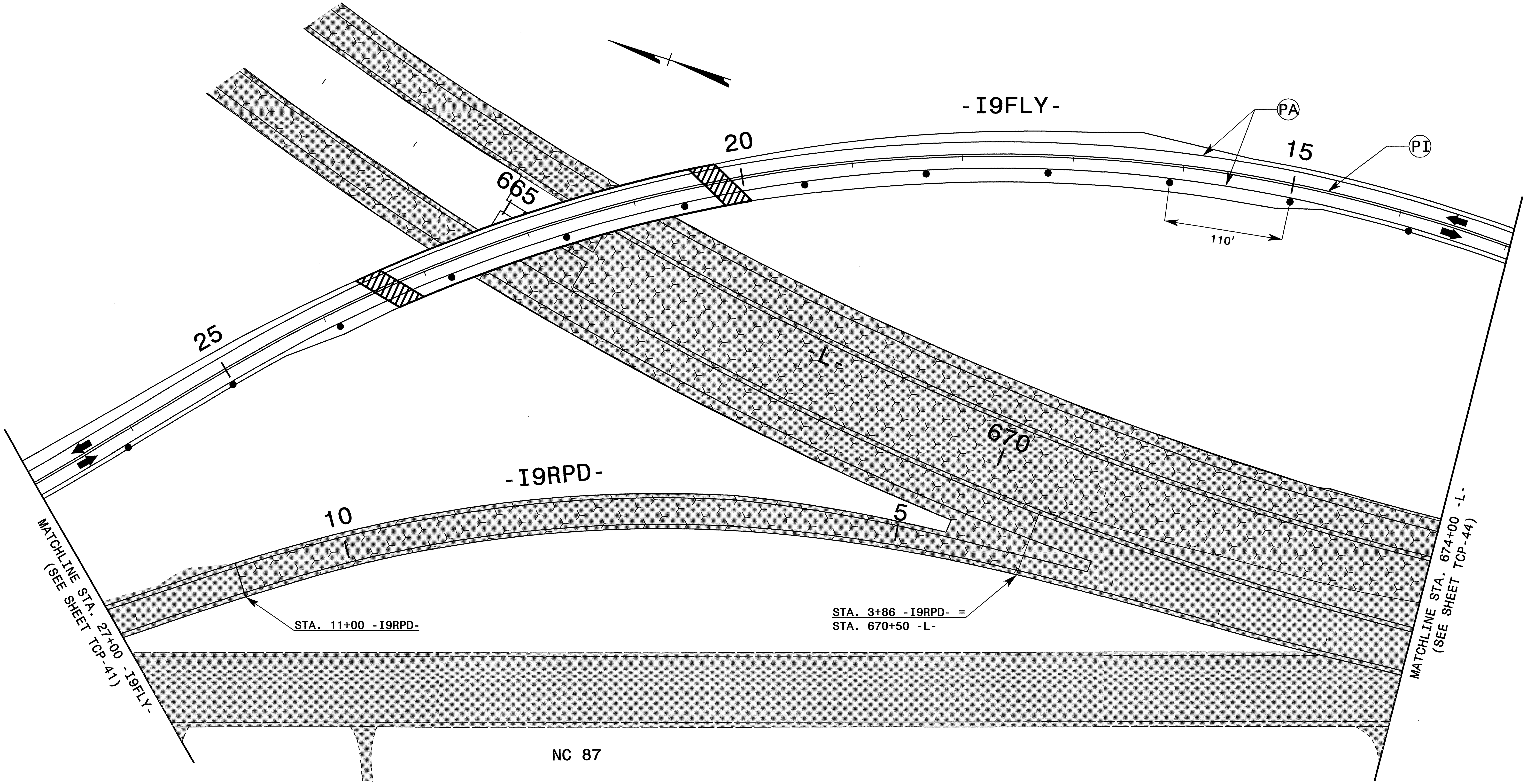
PHASE III DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

12-AUG-2009 08:57
\\Dot\dfsroot\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseIII\R-2417C_TC_TCP_PHIII_TCP_45.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-46



—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

↰ : QA : QD : QG

↱ : QB : QE

↑ : QC : QF

 : EXISTING PAVEMENT MARKING SYMBOL

NOTE: ALL LANE DIMENSIONS ARE 12′ UNLESS NOTED ON PLAN SHEETS.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard, Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE III DETAIL

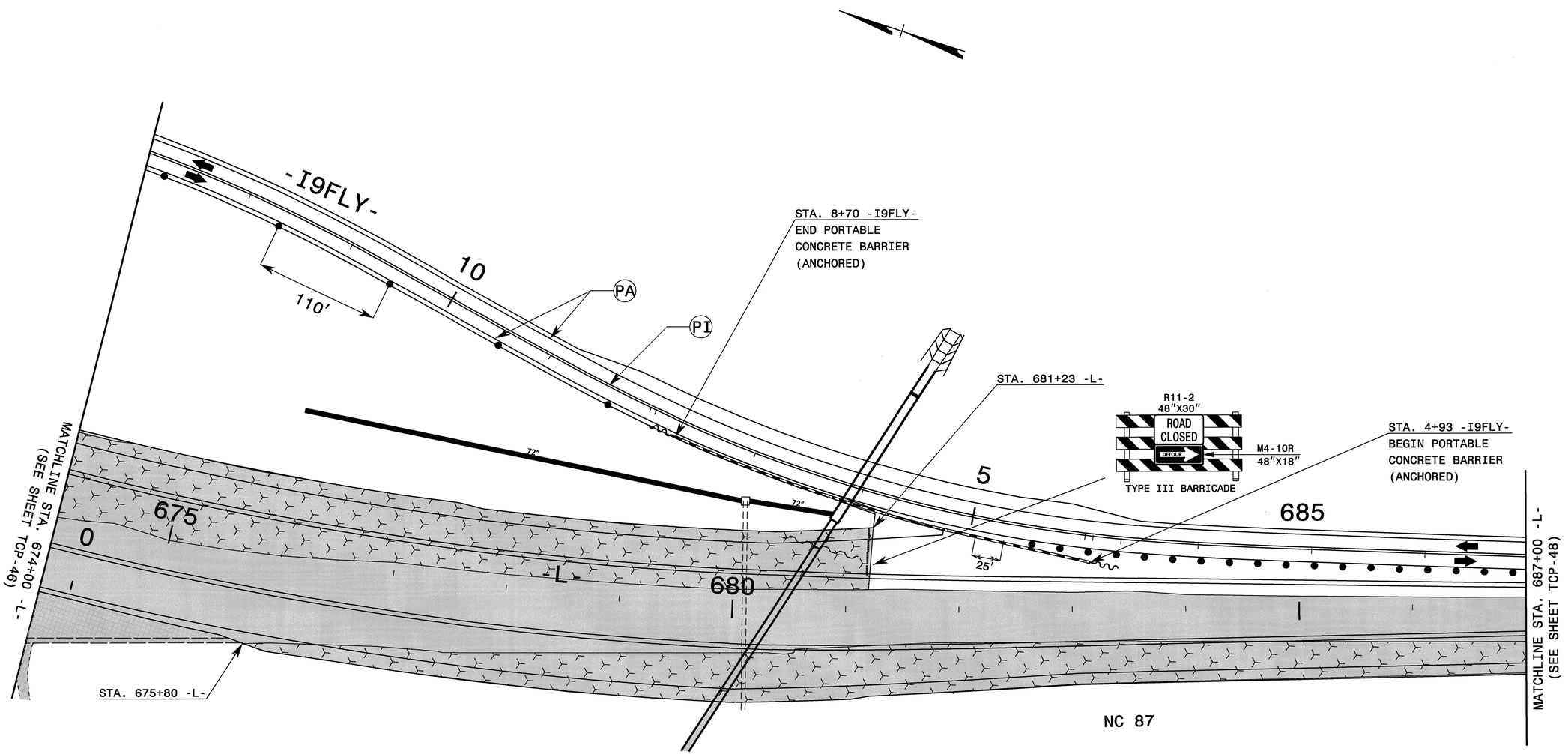
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-47



—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

: QA : QD : QG

: QB : QE

: QC : QF

: EXISTING PAVEMENT MARKING SYMBOL

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED J. W. Woodland DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOODLAND JR.

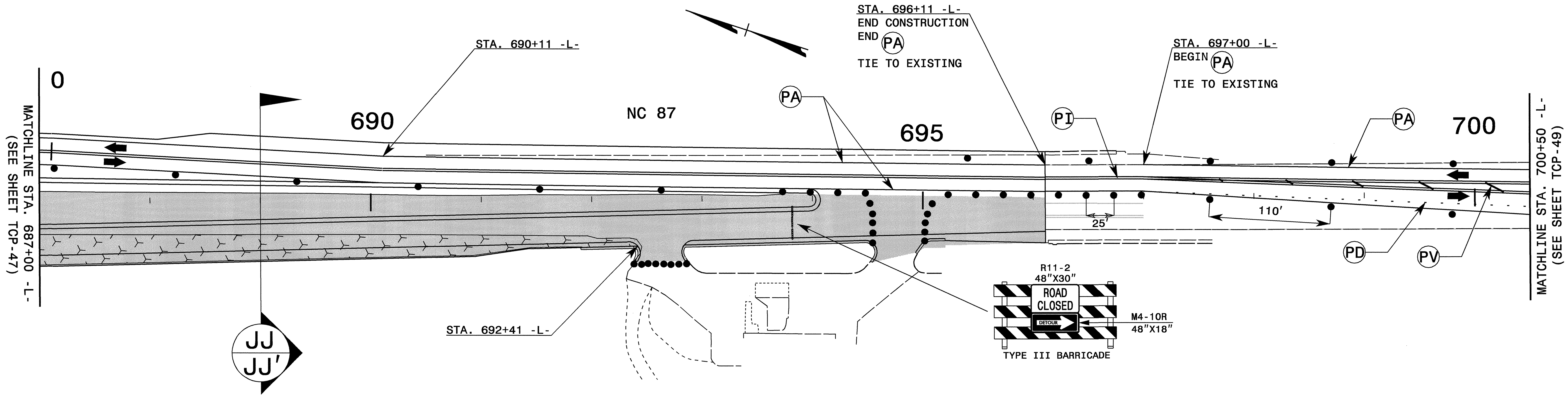
PHASE III DETAIL

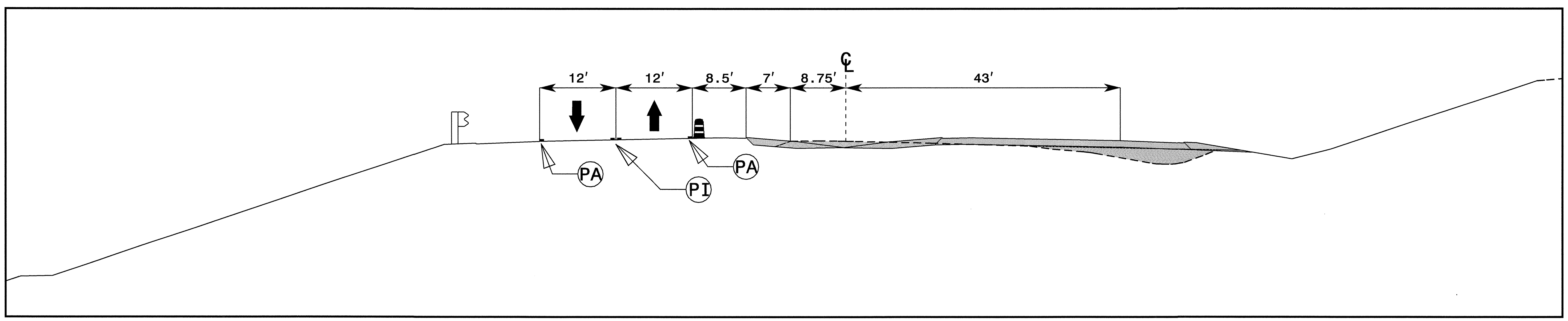
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

12-AUG-2009 08:57
\\Dot\dfsroot01\NSP\p\Projects-r\r2417c\traffic\traffic control\top\Phase III\R-2417C_TC_TCP_PHIII_TCP_47.dgn
dnoyes AT WZTC244138

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-48





CUT SECTION JJ
STA. 689+00 -L- JJ'

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

12-AUG-2009 08:56
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseIII\R-2417C_TC_TCP_PHIII_TCP_48.dgn
ahayes AT WZTC244738

APPROVED: J. W. Woolard, Jr. DATE: 8/12/09

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J. W. WOOLARD, JR.

PHASE III DETAIL

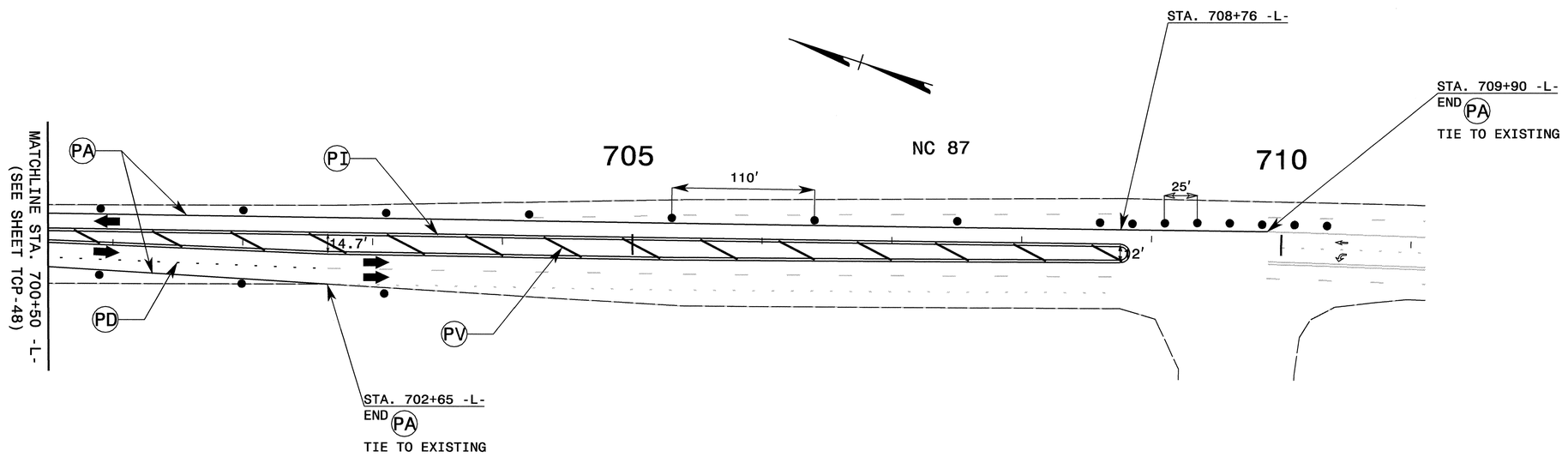
SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-49



—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard DATE: 9/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD III

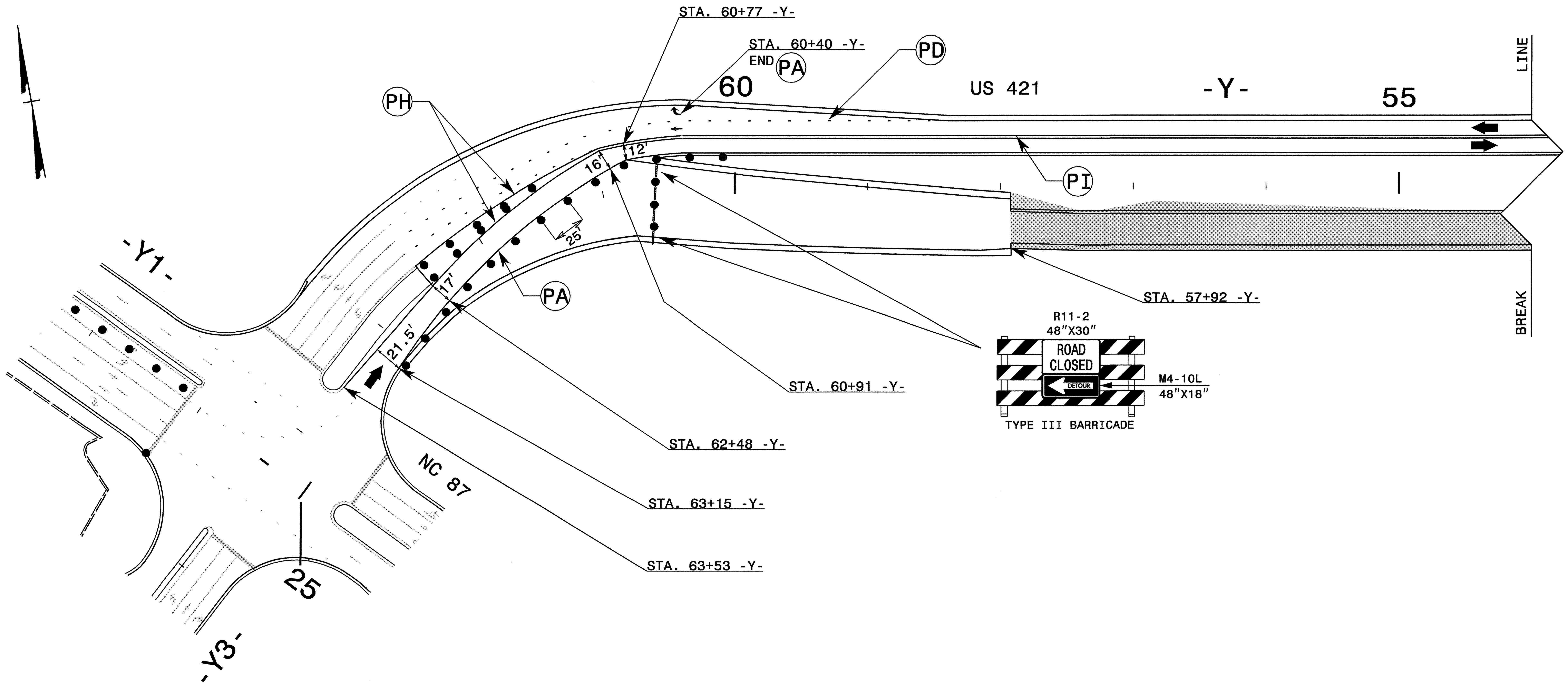
PHASE III DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

12-AUG-2009 08:56
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\top\PhaseIII\R-2417C_TC_TCP_PHIII_TCP_49.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-50



—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

↱ : QB ↑ : QC

↱ : EXISTING PAVEMENT MARKING SYMBOL

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.01 AND 1251.01

APPROVED: J.W. Woolard Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE III DETAIL

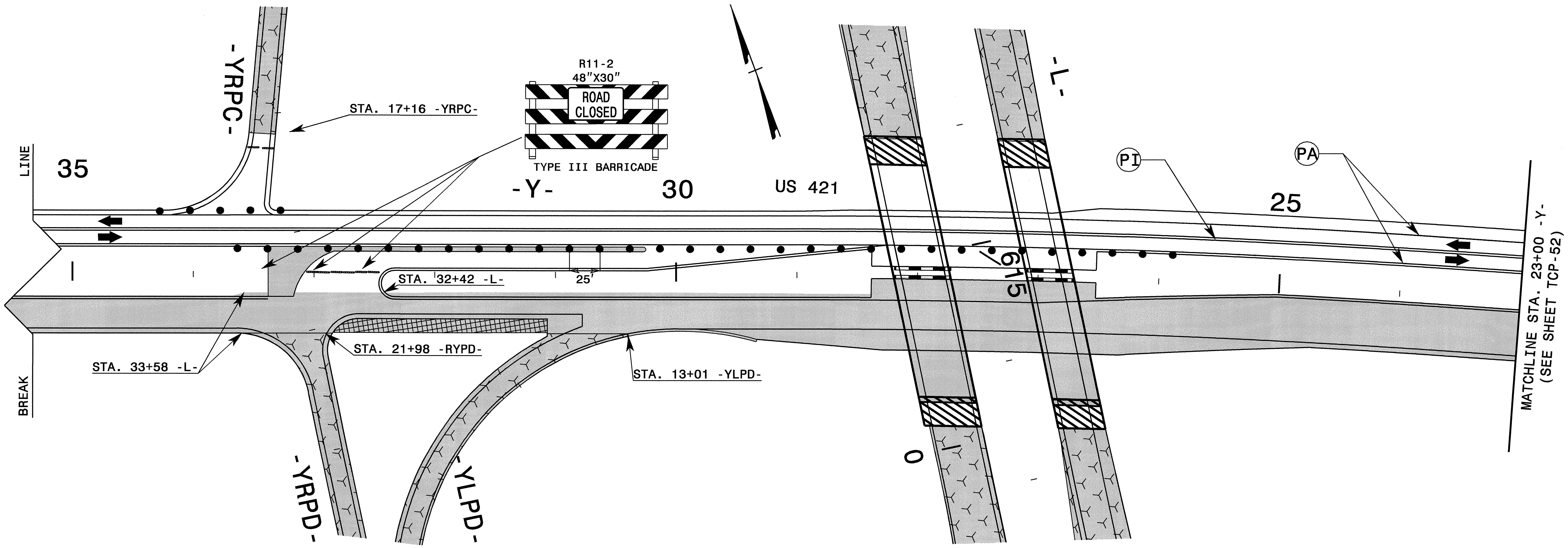
SCALE:	NONE
DATE:	04/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

12-AUG-2009 08:56
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseIII\R-2417C_TC_TCP_PHIII_TCP_50.dgn
ahayes AT WZTC244738



—— : PROPOSED PAVEMENT MARKING LINE

—— : EXISTING PAVEMENT MARKING LINE

↰ : QA ; : QD ; : QG

↱ : QB ; : QE

↑ : QC ; : QF

↱ : EXISTING PAVEMENT MARKING SYMBOL

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

- FOR PAVEMENT MARKING SCHEDULE SEE SHEET TCP-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

APPROVED: J. W. Woolard, Jr. DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE III DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

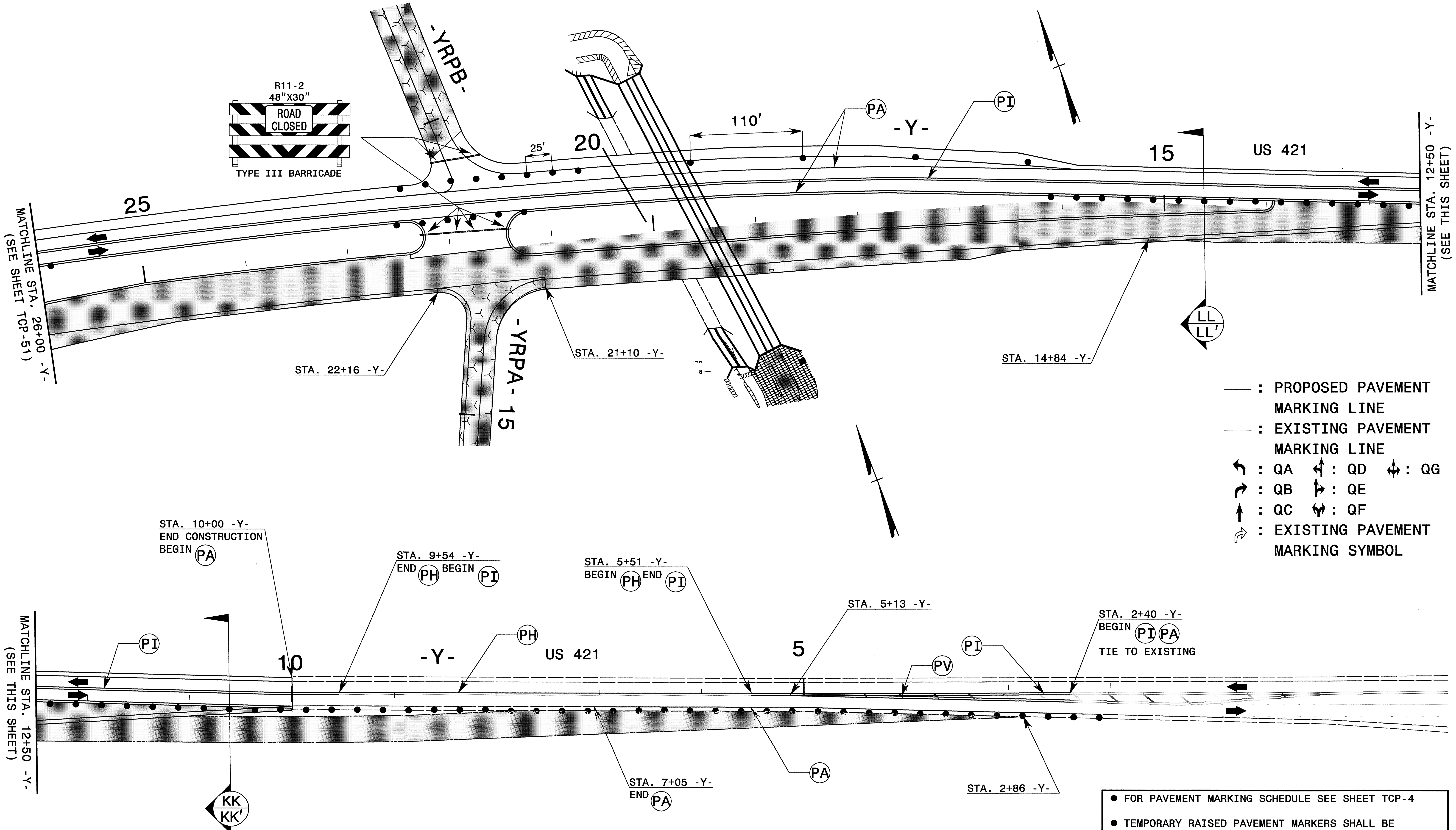
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

12-AUG-2009 08:55
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseIII\R-2417C_TC_TCP_PHIII_TCP_51.dgn
ahayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-52



—— : 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-4
- TEMPORARY RAISED PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH RSD 1250.05 AND 1251.01

REFER TO SHEET TCP-53 FOR CUT SECTIONS KK-KK' AND LL-LL'

NOTE: ALL LANE DIMENSIONS ARE 12' UNLESS NOTED ON PLAN SHEETS.

APPROVED: J.W. Woolard, Jr. DATE: 8/12/09

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE III DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

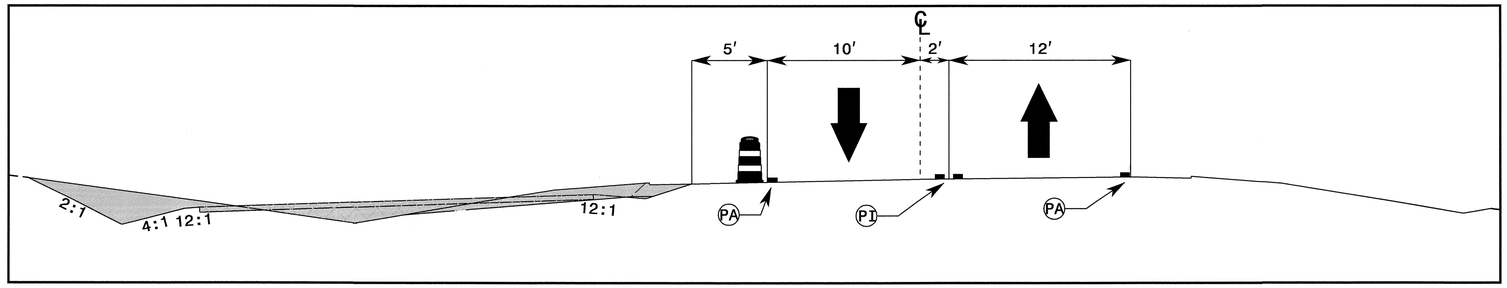
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

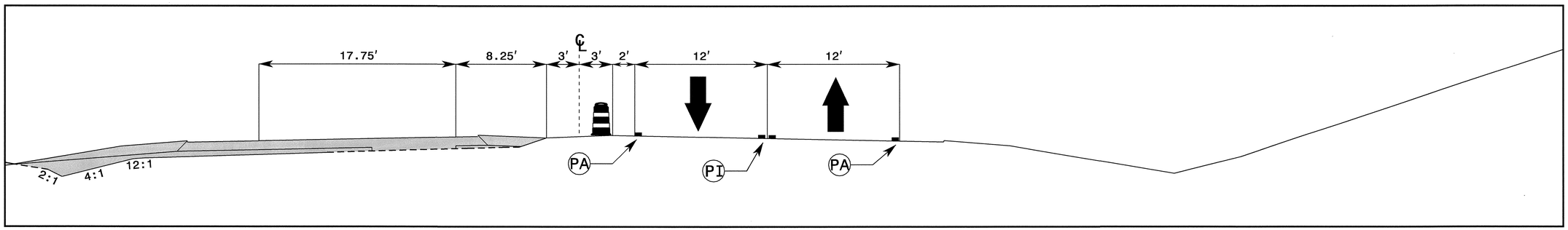
CADD FILE

12-AUG-2009 08:55
\\Dot\dfsroot01\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseIII\R-2417C_TC_TCP_PHIII_TCP_52.dgn
dhayes AT WZTC244738

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-53



CUT SECTION KK / KK′
STA. 10+50 -Y-



CUT SECTION LL / LL′
STA. 14+50 -Y-

APPROVED: J.W. Woolard DATE: 8/12/09

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.

PHASE III DETAIL

SCALE:	NONE
DATE:	08/09
DWG. BY:	DAH
DESIGN BY:	DAH
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS · NORTH CAROLINA · WORK ZONE TRAFFIC CONTROL UNIT

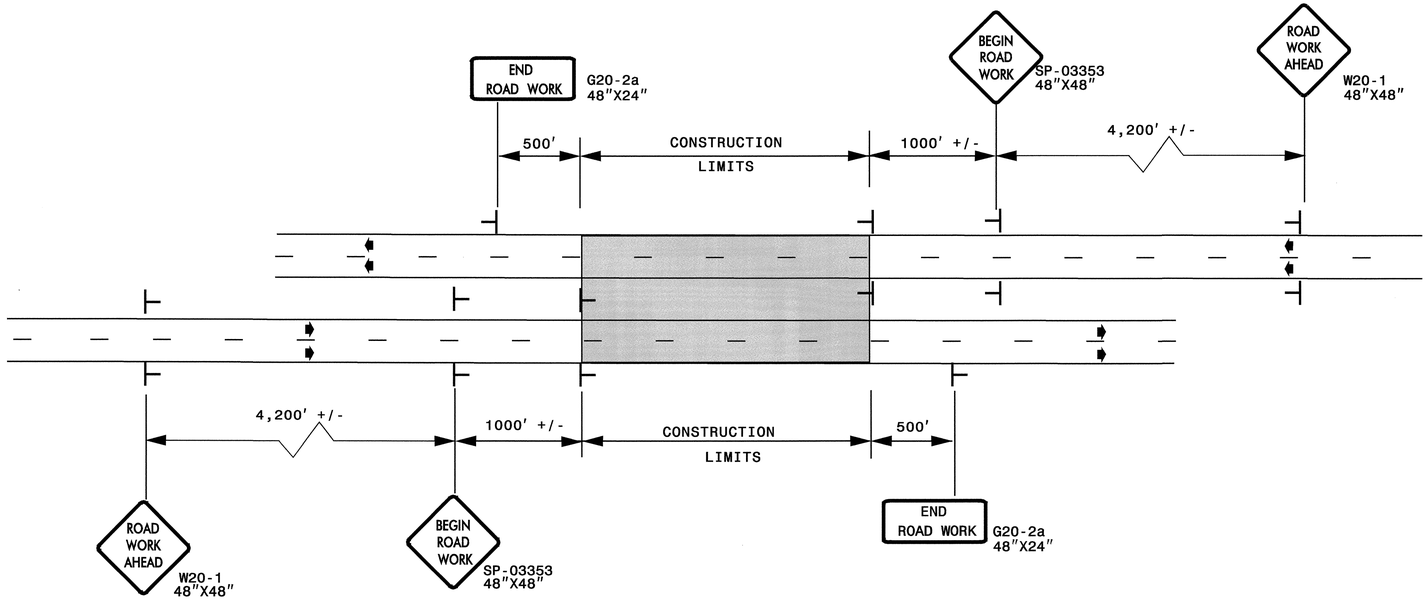
REVISIONS	
CADD FILE	

12-AUG-2009 08:55
\\Dot\dfsroot\NSProj\tipprojects-r\r-2417c\traffic\trafficontrol\tcp\PhaseIII\R-2417C_TC_TCP_PHIII_TCP_53.dgn
dhayes AT WZTC2241738

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

PROJ. REFERENCE NO.	SHEET NO.
R-2417C	TCP-54

DETAIL A

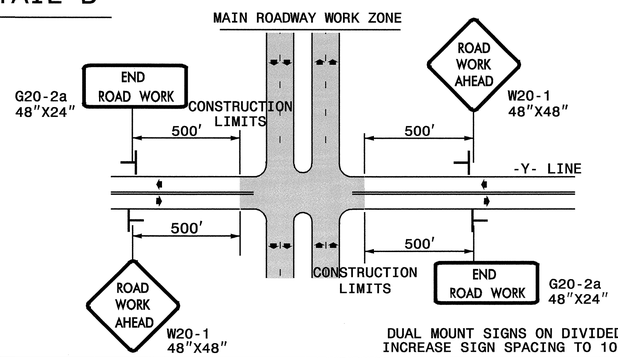


LEGEND
- ⊢ STATIONARY SIGN
- ➧ DIRECTION OF TRAFFIC FLOW

* 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

-Y- LINES



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

GENERAL NOTES

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

APPROVED: J. W. Woolard DATE: 3/12/09

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR.

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

SCALE:	NONE
DATE:	8/03
DWG. BY:	JI
DESIGN BY:	JI
REVIEWED BY:	JWW

REVISIONS	
03/04	
CADD FILE	

12-AUG-2009 08:54
\\Dot\dfsr_prof0\NSProj\tipprojects-r\r2417c\traffic\trafficcontrol\tcp\PhaseIII\R-2417C_TC_TCP_PHIII_TCP_54.dgn
dmoyes AT WZTC24138