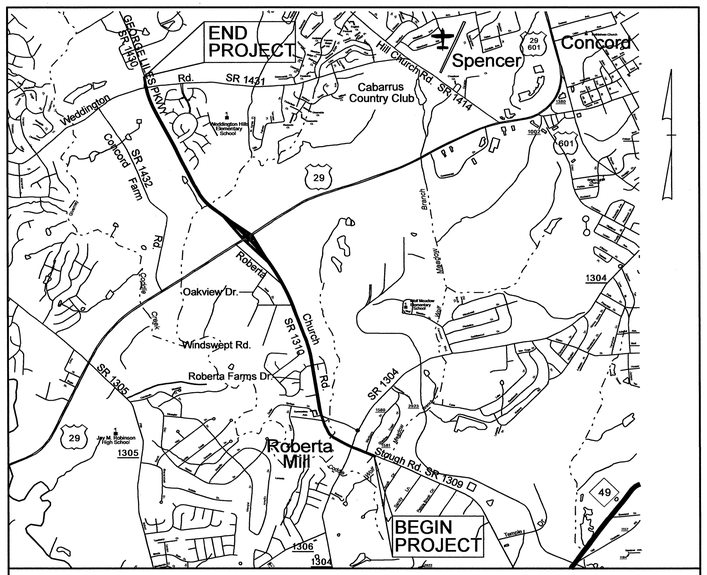
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CABARRUS COUNTY



VICINITY MAP

LOCATION: GEORGE LILES PARKWAY FROM SOUTH OF SR 1304 (ROBERTA ROAD) TO SR 1431 (WEDDINGTON ROAD)

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-2 - 2A	GENERAL NOTES
TMP-2B	SPECIAL SIGN DESIGN
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 - 15	TEMPORARY TRAFFIC CONTROL PHASE I DETAILS
TMP-16 - 26	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS
TMP-27 - 30	TEMPORARY TRAFFIC CONTROL PHASE III DETAILS
TMP-31	DETOUR - -Y3- (ROBERTA WOODS COURT)
TMP-32 - 38	TEMPORARY TRAFFIC CONTROL PHASE I CROSS-SECTION DETAILS
TMP-39 - 43	TEMPORARY TRAFFIC CONTROL PHASE II CROSS-SECTION DETAILS

SHEET NO.
TMP-1

R-2246B

TIP PROJECT:

WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1580 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1580
1020 BIRCH RIDGE DRIVE, RALEIGH, NC 27610 (DELIVERY)
PHONE: (919) 250-4094 FAX: (919) 250-4098

J. S. BOURNE, P.E. — *STATE TRAFFIC MANAGEMENT ENGINEER*
G. L. GETTIER, P.E. — *TRAFFIC CONTROL PROJECT ENGINEER*
J. W. WOOLARD, P.E. — *TRAFFIC CONTROL PROJECT DESIGN ENGINEER*
L. K. DONALDSON, P.E — *TRAFFIC CONTROL DESIGN ENGINEER*

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

APPROVED:
DATE: 12/20/12

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

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PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-1A

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD 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	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
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)

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- REMOVAL
- USER DEFINED (IF NEEDED)
- USER DEFINED (IF NEEDED)

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW PANEL (TYPE C)
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

EXISTING PROPOSED TEMP TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
	PAINT(4")
PA	WHITE EDGELINE
PB	YELLOW EDGELINE
PC	10 FT. WHITE SKIP LINE
PD	2 FT. WHITE MINISKIP
PE	WHITE LANE LINE
PG	2 FT. YELLOW MINISKIP
PI	YELLOW DOUBLE CENTER
	PAINT(8")
PR	WHITE GORELINE
PV	YELLOW DIAGONAL
	PAINT(24")
P4	WHITE STOPBAR
	PAINT MARKING SYMBOLS
QA	LEFT TURN ARROW
QB	RIGHT TURN ARROW
QC	STRAIGHT ARROW
QD	COMBO. STRAIGHT/LEFT
QE	COMBO. STRAIGHT/RIGHT

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR. 1/9/13

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

ROADWAY STANDARD DRAWINGS & LEGEND

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PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-2

MANAGEMENT STRATEGIES

US 29 CONSTRUCTION SUMMARY:

REVISED SHOULDERS, MEDIAN AND RAMP TIE-INS WILL BE CONSTRUCTED USING LANE CLOSURES AND TEMPORARY SIGNAL.

PROPOSED -L- AND -Y- LINES CONSTRUCTION SUMMARY:

PROPOSED -L- AND -Y- LINES OTHER THAN US 29 WILL BE CONSTRUCTED USING LANE CLOSURES WITH FLAGGERS, TEMPORARY CROSSOVER, TRAFFIC SHIFTS AND A ROAD CLOSURES.

GENERAL NOTES / LOCAL 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	
US 29 (-Y4-)	MONDAY THROUGH FRIDAY	6:00 AM TO 9:00 AM 4:00 PM TO 7:00 PM

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

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 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M TUESDAY TO 7:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR NASCAR, NHRA, AND AUTO FAIR EVENTS AT CHARLOTTE MOTOR SPEEDWAY, BETWEEN THE HOURS OF 6:00 AM THE WEDNESDAY BEFORE THE EVENT AND 7:00 PM THE MONDAY AFTER THE EVENT.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION & OPERATION
US 29 (-Y4-)	SUNDAY THROUGH SATURDAY 5:00 A.M. TO 12:00 A.M.	30 MINUTES HANGING GIRDERS

LANE AND SHOULDER CLOSURE REQUIREMENTS

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

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING 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 OR A LANE CLOSURE IS INSTALLED.

F) 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.

G) 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.

H) 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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

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

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

J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 100 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

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

M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

   PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

   COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

APPROVED: _____ DATE: _____

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR. — 4/2/13

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

TRANSPORTATION OPERATIONS PLAN

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PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-2A

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

P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

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

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

S) 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

T) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLAN.

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

ROAD NAME	MARKING	MARKER
ROADWAY	PAINT	TEMPORARY RAISED

V) 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.

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

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

Y) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO AND INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

TEMPORARY / FINAL SIGNALS

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

MISCELLANEOUS

AA) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S 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) 100 FT AND 200 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

APPROVED: _____ DATE: _____

SEAL

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

12/20/12

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

TRANSPORTATION OPERATIONS PLAN

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jwoolard AT TE266005

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-2B

SIGN NUMBER: SP12331
TYPE: STATIONARY
QUANTITY: SEE PLANS

SIGN WIDTH: 3′-6″
HEIGHT: 2′-0″
TOTAL AREA: 7.0 Sq.Ft.

BORDER TYPE: INSET
RECESS: 0.38″
WIDTH: 0.63″
RADII: 1.5″

NO. Z BARS:
LENGTH:

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

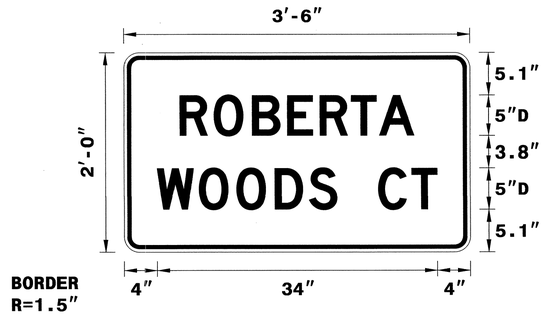
SYMBOL	X	Y	WID	HT

MAT'L: 0.080″ (2.0 mm) ALUMINUM

USE NOTES: 1,2

1. Legend and border shall be direct applied black non-reflective sheeting.
2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.

DESIGN BY: DHB
PROJECT ID: R-2246B
CHECKED BY: KLJ
DIV: 10
DATE: Dec 17, 2012



BORDER
R=1.5″
TH=0.63″
IN=0.38″

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size
Text Length

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	6.8	4.2	4.6	4.2	4	3.8	3.4	4.3	6.8																	28.5
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FILENAME: Guidsign_English

NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: [signature] DATE: 12/17/12

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022959 RONALD W. KING

SPECIAL SIGN DESIGN

SCALE:	NONE
DATE:	12/12
DWG. BY:	DHB
DESIGN BY:	DHB
REVIEWED BY:	KLJ

DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH

REVISIONS	
CADD FILE	

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PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-03

NOTE: MAINTAIN TRAFFIC FOR ALL DRIVEWAYS AND SECONDARY ROADS THROUGHOUT THE PROJECT FOR THE DURATION OF THE PROJECT.

PHASE I

STEP 1

USING RSD 1101.01, PLACE ADVANCE WORK ZONE WARNING SIGNS.

STEPS 2 THROUGH 4 MAY BE COMPLETED CONCURRENTLY

STEP 2

USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, CONSTRUCT THE FOLLOWING:

LEFT SIDE OF -L1- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 11+00+/- TO STA. 14+68+/- AS SHOWN ON TMP-04 INCLUDING TIE-IN OF -Y8- TO EDGE OF EXISTING STOUGH RD (SR 1309).

-L1- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 14+68+/- TO TIE-IN OF EXISTING ROBERTA RD (SR 1304) AS SHOWN ON TMP-04 AND TMP-05, INCLUDING DRIVEWAYS AND -Y9- FROM TIE-IN OF -L1- TO EDGE OF EXISTING STOUGH RD (SR 1309). PROVIDE WEDGING AS NEEDED AT TIE-IN OF -Y9- TO MAINTAIN EXISTING TRAFFIC.

RIGHT SIDE OF -Y1- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 10+50+/- TO TIE-IN OF -L- AS SHOWN ON TMP-05.

LEFT SIDE OF -Y1- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM STA. 15+57+/- TO STA. 22+00+/- AS SHOWN ON TMP-05.

-L1- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM TIE-IN OF -Y1- ROBERTA RD (SR 1304) TO TIE-IN OF -Y- SUMMERTREE AVE (SR 3810) INCLUDING TIE-IN OF -Y1- AS SHOWN ON TMP-05 AND TMP-06. PROVIDE WEDGING AS NEEDED ON EXISTING ROBERTA CHURCH RD TO PROVIDE A SMOOTH TRANSITION FOR TIE-IN OF -Y-.

LEFT SIDE OF -L1- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM TIE-IN OF -Y- TO -L1- STA. 41+00+/- AS SHOWN ON TMP-06.

RIGHT SIDE OF -L1- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 40+62 +/- TO STA. 45+00 +/- AS SHOWN ON TMP-06. PROVIDE WEDGING ON EXISTING ROBERTA CHURCH RD (SR 1310) TO PROVIDE A SMOOTH TRANSITION FOR EXISTING TRAFFIC.

-L2- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM TIE-IN OF -L1- TO -L2- STA. 54+34.31 AS SHOWN ON TMP-06 AND TMP-07.

RIGHT SIDE OF -L- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 23+00+/- TO STA. 25+30+/- AS SHOWN ON TMP-06,07 & 08.

RIGHT SIDE OF -L- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 28+22+/- TO STA. 63+00 +/- AS SHOWN ON TMP-07 THROUGH TMP-10 INCLUDING THE CONSTRUCTION OF A TEMPORARY CROSSOVER. CONSTRUCT TEMPORARY PAVEMENT FROM -L- STA. 28+22+/- TO STA. 29+76+/- AS SHOWN ON TMP-07.

-Y3DET2- FROM STA. 9+98+/- TO STA. 11+81+/-. KEEP -Y3DET2- CLOSED USING TYPE III BARRICADES.

-Y2REV- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 15+28 TO TIE-IN OF -Y4- AS SHOWN ON TMP-11 AND TMP-13. USE RSD 1101.02 SHEET 3 OF 15 AS NEEDED FOR TIE-IN AT -Y4-.

-Y3DET1- FROM STA. 9+54+/- TO STA. 13+67+/-. PLACE TEMPORARY PAVEMENT MARKINGS PER RSD. 1205.01 AND 1205.02. (NOTE: MAINTAIN ACCESS TO ALL RESIDENCES DURING CONSTRUCTION)

AWAY FROM TRAFFIC, CONSTRUCT TEMPORARY CROSSOVER (-LDET-) AND -L- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 62+00 +/- TO SOUTH END OF NEW BRIDGE AS SHOWN ON TMP-10 AND TMP-11.

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF -L- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM NORTH SIDE OF NEW BRIDGE DECK TO STA. 146+00+/-.

USING RSD 1101.02 SHEET 3 OF 15 AS NEEDED:

CONSTRUCT END BENTS AND RETAINING WALLS AT END BENTS SHOWN IN CONSTRUCTION DOCUMENTS.

CONSTRUCT RAMPS AND SPURS (-SPURA-, -RPA-, -SPURB-, -RPB-, -RPC-, -SPURC-, -SPURD-, -RPD-) UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE TO EDGE OF EXISTING US 29 AS SHOWN ON TMP-11 AND TMP-12.

USING RSD 1101.03 (SHEET 8 OF 9), PLACE BRIDGE GIRDERS. INSTALL TEMPORARY BENTS AS NEEDED AND AS SHOWN IN THE CONSTRUCTION PLANS IN ORDER TO PLACE GIRDERS. AFTER GIRDER INSTALLATION IS COMPLETE, REMOVE TEMPORARY BENTS.

ICT - 30 DAYS

PHASE I STEP 3A AND 3B SHALL BE COMPLETED WITHIN 30 DAYS (SEE SPECIAL PROVISIONS FOR LIQUIDATED DAMAGES).

STEP 3

A. INSTALL OFF-SITE DETOUR SIGNS AS SHOWN ON TMP-31. CLOSE -Y3- USING THE OFF-SITE DETOUR AND OPEN -Y3DET2-. CONSTRUCT -Y3-, -Y6- AND -L- FROM STA. 26+54+/- TO STA. 28+22+/- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-08.

B. USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, PLACE TEMPORARY PAVEMENT MARKINGS ON -Y3- AND -Y6-, REMOVE ROAD CLOSURE ON -Y3- AND PLACE TRAFFIC INTO NEW TEMPORARY TRAFFIC PATTERN AS SHOWN ON TMP-08. CLOSE TEMPORARY ROADWAY USING TYPE III BARRICADE.

C. USING RSD 1101.02 SHEET 1 OF 15 AND FLAGGERS AS NEEDED, REMOVE -Y3DET2- AND COMPLETE CURB AND GUTTER ON -Y6- AS SHOWN ON TMP-08. CONSTRUCT -L- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 25+30+/- TO STA. 26+54+/-.

STEP 4

USING RSD 1101.02 SHEET 3 OF 15 AS NEEDED:

A. CONSTRUCT OUTSIDE EDGES OF -Y4- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-12 AND TMP-13 INCLUDING TIE-IN OF PHILLIP MORRIS DR. MILL PAVEMENT ON -Y4- AND REPLACE WITH ASPHALT UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT AS SHOWN IN THE CONSTRUCTION PLANS.

B. PLACE TEMPORARY PAVEMENT MARKINGS ON -Y4- AS SHOWN ON TMP-14 AND TMP-15 AND TEMPORARY RAISED MARKERS (1250.01 SHEET 1 OF 3) AND PLACE TRAFFIC INTO NEW TEMPORARY TRAFFIC PATTERN.

C. REMOVE EXISTING MEDIAN AND CONSTRUCT NEW ROADWAY UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE ON -Y4- US 29 FROM STA. 0+00+/- TO STA. 40+00+/- AS SHOWN ON TMP-14 AND TMP-15. INCLUDE WEDGING UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE.

PHASE II

ICT - 1 WEEKEND

PHASE II STEP 1A THROUGH 1C SHALL BE COMPLETED WITHIN ONE (1) WEEKEND (SEE SPECIAL PROVISIONS FOR LIQUIDATED DAMAGES).

STEP 1

USING RSD 1101.02 SHEET 1 OF 9 AND FLAGGERS AS NEEDED:

A. PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON TMP-16 THROUGH TMP-25 AND MARKERS USING RSD 1250.01 SHEET 1 OF 3. INSTALL TEMPORARY SIGNAL AS SHOWN IN SIGNAL PLANS. PLACE NORTH BOUND TRAFFIC OF EXISTING ROBERTA CHURCH RD (1310) INTO NEW TEMPORARY PATTERN.

B. CONSTRUCT RIGHT SIDE OF -L- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 30+00+/- TO STA. 32+50+/- AS SHOWN ON TMP-21.

C. PLACE SOUTHBOUND TRAFFIC OF EXISTING ROBERTA CHURCH RD (1310) INTO NEW TRAFFIC PATTERN SHOWN ON TMP-16 THROUGH TMP-25.

STEP 2

USING RSD 1101.02 SHEET 1 OF 15 AS NEEDED, CONSTRUCT THE FOLLOWING:

COMPLETE TIE-IN OF -L1- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 11+00+/- TO STA. 14+68+/- AS SHOWN ON TMP-16.

-Y9- FROM STA. 10+45+/- TO STA. 12+00+/- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-16.

SHOULDER AND DRIVEWAYS ON RIGHT SIDE OF -L1- AS SHOWN ON TMP-16.

LEFT SIDE OF -Y1- AND WEDGING OF EXISTING ROBERTA RD (SR 1304) UP TO, BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE FROM STA. 10+50+/- TO STA. 15+57+/- AS SHOWN ON TMP-17.

RIGHT SIDE OF -Y1- AND WEDGING ON EXISTING ROBERTA RD (SR 1304) UP TO, BUT NOT INCLUDING, FINAL SURFACE COURSE FROM THE TIE-IN OF -L1- TO STA. -Y1- 22+00+/- AS SHOWN ON TMP-17.

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR. 1/9/13

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PHASING

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jwoolard AT TE266005

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-03A

RIGHT SHOULDER OF -L1- AND WEDGING UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE STA. 39+23+/- TO STA. 40+62+/- CLOSING ACCESS TO EXISTING ROBERTA CHURCH RD (SR 1310). AS SHOWN ON TMP-19.

TURNOUT ON EXISTING ROBERTA CHURCH RD (SR 1310) AND REMOVE EXISTING ROBERTA CHURCH RD AS SHOWN ON TMP-19 AND CONSTRUCTION PLANS.

LEFT SIDE OF -L1- AND -L- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. -L1- 41+00+/- TO STA. -L- 63+00+/- AS SHOWN ON TMP-19 THROUGH TMP-22. INCLUDE CONSTRUCTION OF TIE-IN OF -Y3- UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-20.

TURNOUTS ON EXISTING ROBERTA CHURCH RD (SR 1310) AND WINDSWEPT RD (SR 1457) AS SHOWN ON TMP-22.

TIE-IN OF -Y2REV- INTO EXISTING ROBERTA CHURCH RD (SR 1310) FROM STA. 12+50 TO STA. 15+28 UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-23. PLACE TEMPORARY MARKINGS (AS SHOWN ON TMP-23 & 25) AND SHIFT TRAFFIC ON TO -Y2REV-.

USING RSD 1101.02 SHEET 3 OF 15 AS NEEDED, CONSTRUCT THE FOLLOWING:

OUTSIDE EDGE OF -Y4- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 16+66+/- TO STA. 17+27+/- CLOSING ACCESS TO EXISTING ROBERTA CHURCH RD (SR 1310) AS SHOWN ON TMP-24. REMOVE EXISTING SIGNAL AT -Y4-/ROBERTA CHURCH ROAD INTERSECTION.

MEDIAN MONOLITHIC ISLANDS ON -Y4-, -SPURA- AND -SPURC- AS SHOWN ON TMP-24 AND TMP-25. REMOVE EXISTING SIGNAL AT -Y4-/PHILLIP MORRIS DRIVE INTERSECTION.

NEW ROADWAY AND WIDENING OF -L- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 146+00+/- TO STA. 154+27.70+/- AS SHOWN ON TMP-26.

WIDENING OF -Y5- UP TO, BUT NOT INCLUDING, FINAL LAYER OF SURFACE COURSE FROM STA. 14+00+/- AND STA. 22+50+/- AS SHOWN ON TMP-26.

PHASE III

STEP 1

USING RSD 1101.02 SHEETS 1 AND 3 OF 15 AND FLAGGERS AS NEEDED, PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON FINAL PAVEMENT MARKING PLANS AND MARKERS USING RSD 1250.01 SHEET 1 OF 3 ON -Y-, -Y1-, -Y3-, -Y5-, -Y8-, -Y9-, -L2-, -L1- FROM STA 11+00 TO STA 23+00, AND -L- FROM STA 23+00 TO STA 46+00+/-. PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- FROM STA 46+00+/- TO TIE-INS AT RAMPS -RPB- AND -RPC-, -Y4-, AND -RPB- AS SHOWN ON TMP-27 THROUGH TMP-29. INSTALL SIGNAL IN FINAL LOCATION ACCORDING TO SIGNAL PLANS AND PLACE TRAFFIC INTO NEW TEMPORARY PATTERN.

STEP 2

USING RSD 1101.02 SHEET 3 OF 15, CONSTRUCT MONOLITHIC ISLANDS BETWEEN -L1- STA. 44+76+/- AND -L1- STA. 46+00+/-, -L1- 49+83+/- AND -L1- 50+90+/-, -L- 25+92+/- AND -L- 29+76+/-, -L- 40+78+/- AND -L- 43+07+/-, -Y5- 15+00+/- AND -Y5- 17+57+/-, AND BETWEEN -Y5- 19+71+/- AND -Y5- 22+13+/- AS SHOWN ON TMP-30.

REMOVE TEMPORARY PAVEMENT SHOWN ON TMP-07 AND COMPLETE CONSTRUCTION OF MEDIAN.

COMPLETE CONSTRUCTION OF -L- FROM NORTH SIDE OF BRIDGE DECK TO STA 146+00+/-, BEGUN IN PHASE I, STEP 2, AND ALL OTHER REMAINING WORK.

STEP 3

USING RSD 1101.02 SHEETS 1 AND 3 OF 15 AS NEEDED, PLACE FINAL LAYER OF SURFACE COURSE ON ALL ROADWAYS, FINAL PAVEMENT MARKINGS AND MARKERS AS SHOWN IN FINAL PAVEMENT MARKING PLANS, REMOVE ALL TRAFFIC CONTROL DEVICES, AND PLACE TRAFFIC INTO FINAL PATTERN.

APPROVED: _____ DATE: _____

SEAL

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

1/9/13

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PHASING

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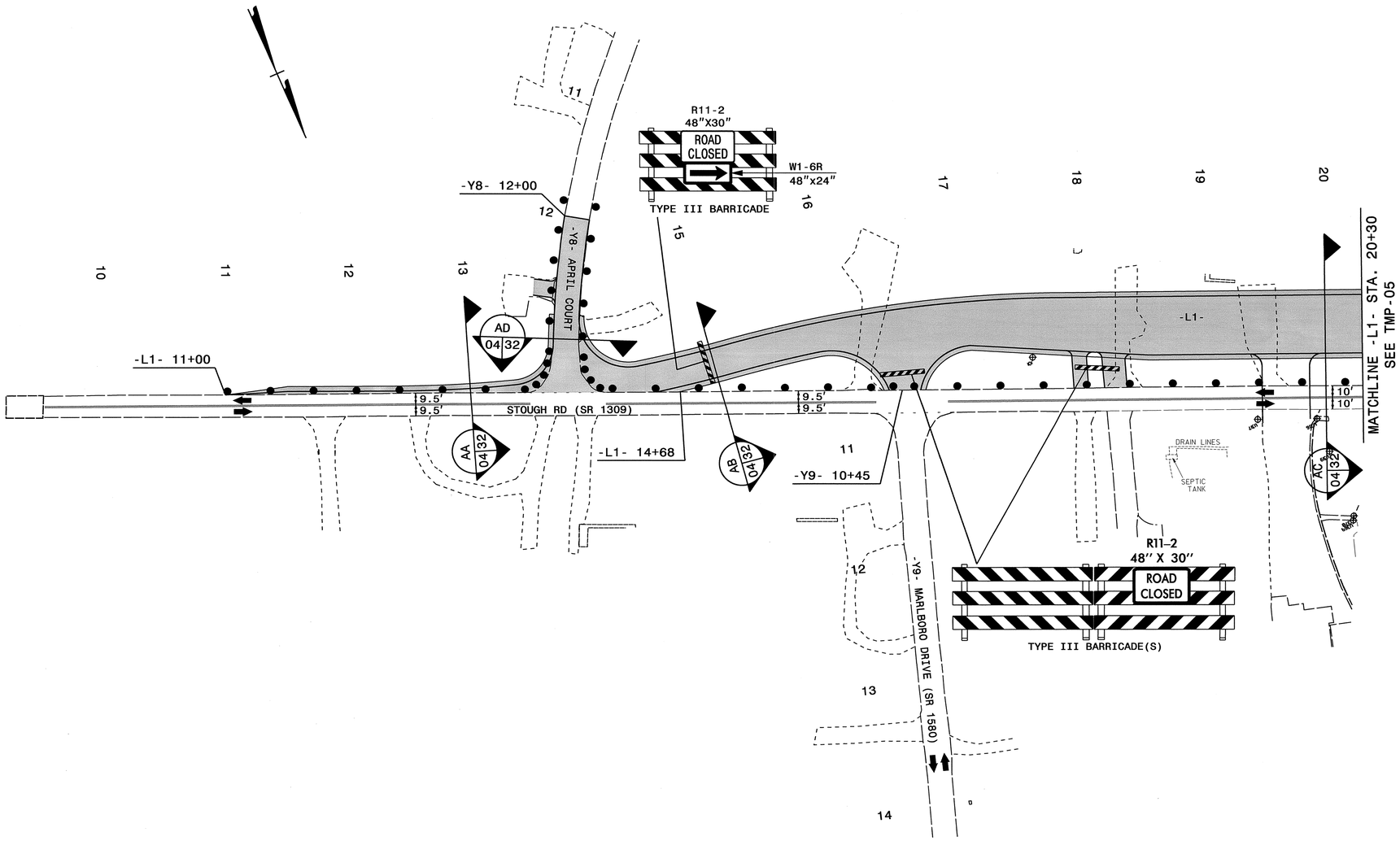
jwoolard AT TE26005

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-04



* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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12/20/12

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jwoolard AT TE266005

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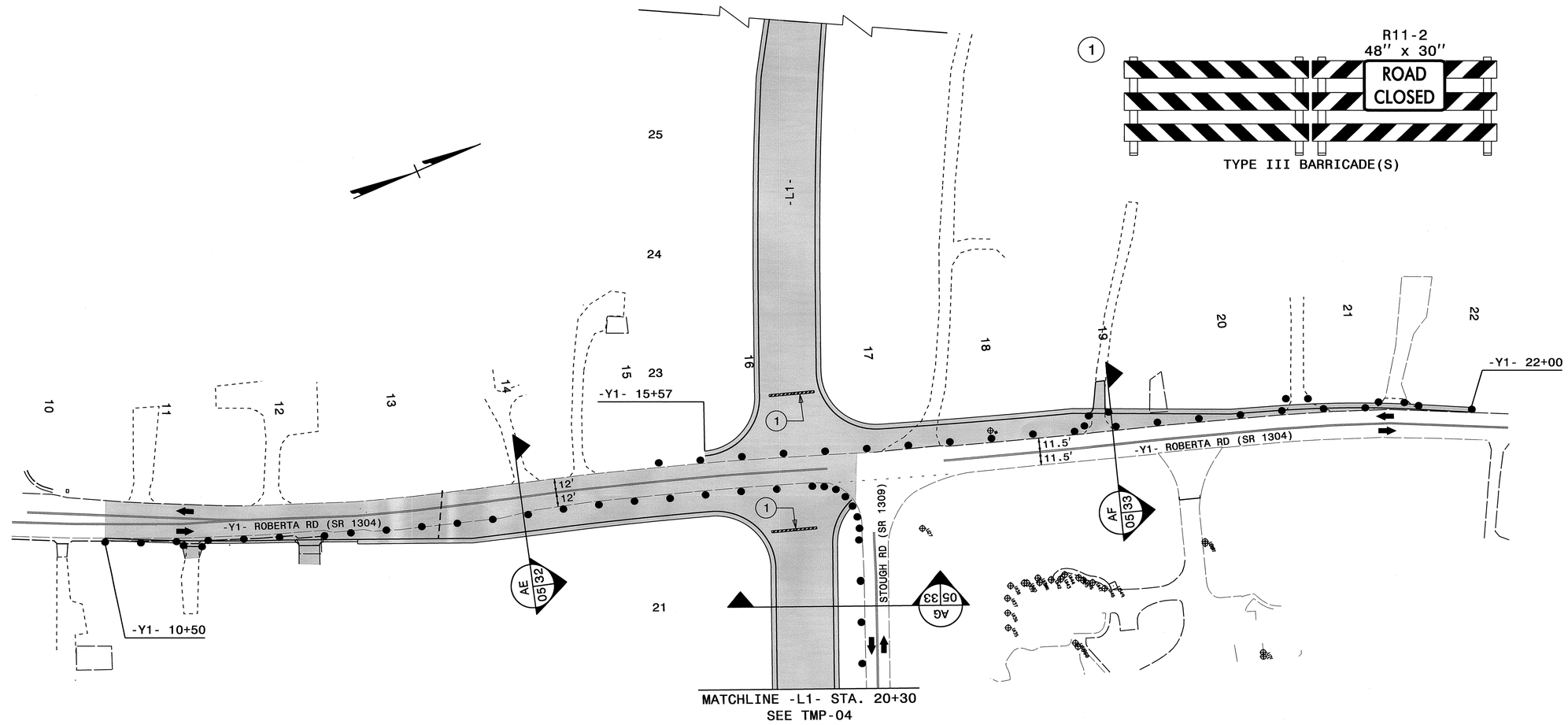
R-2246B	TMP-05



MATCHLINE -L1- STA. 20+30
SEE TMP-04

1

R11-2
48" x 30"
ROAD CLOSED

TYPE III BARRICADE(S)

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

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12/20/12

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jwoolard AT TE266005

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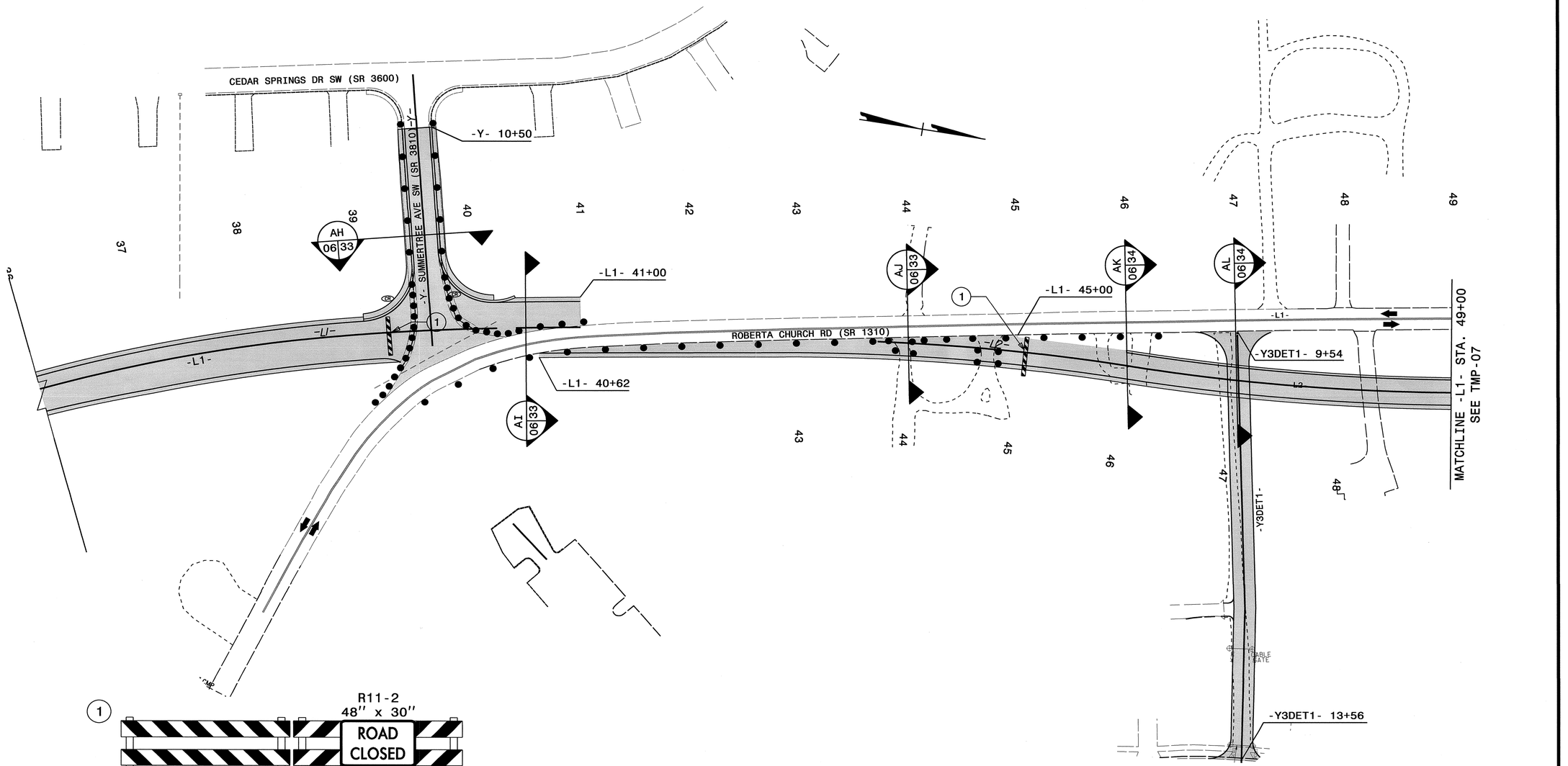
R-2246B	TMP-06



1

R11-2
48" x 30"

ROAD CLOSED

TYPE III BARRICADE(S)

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

1/9/13

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PROJ. REFERENCE NO.	SHEET NO.
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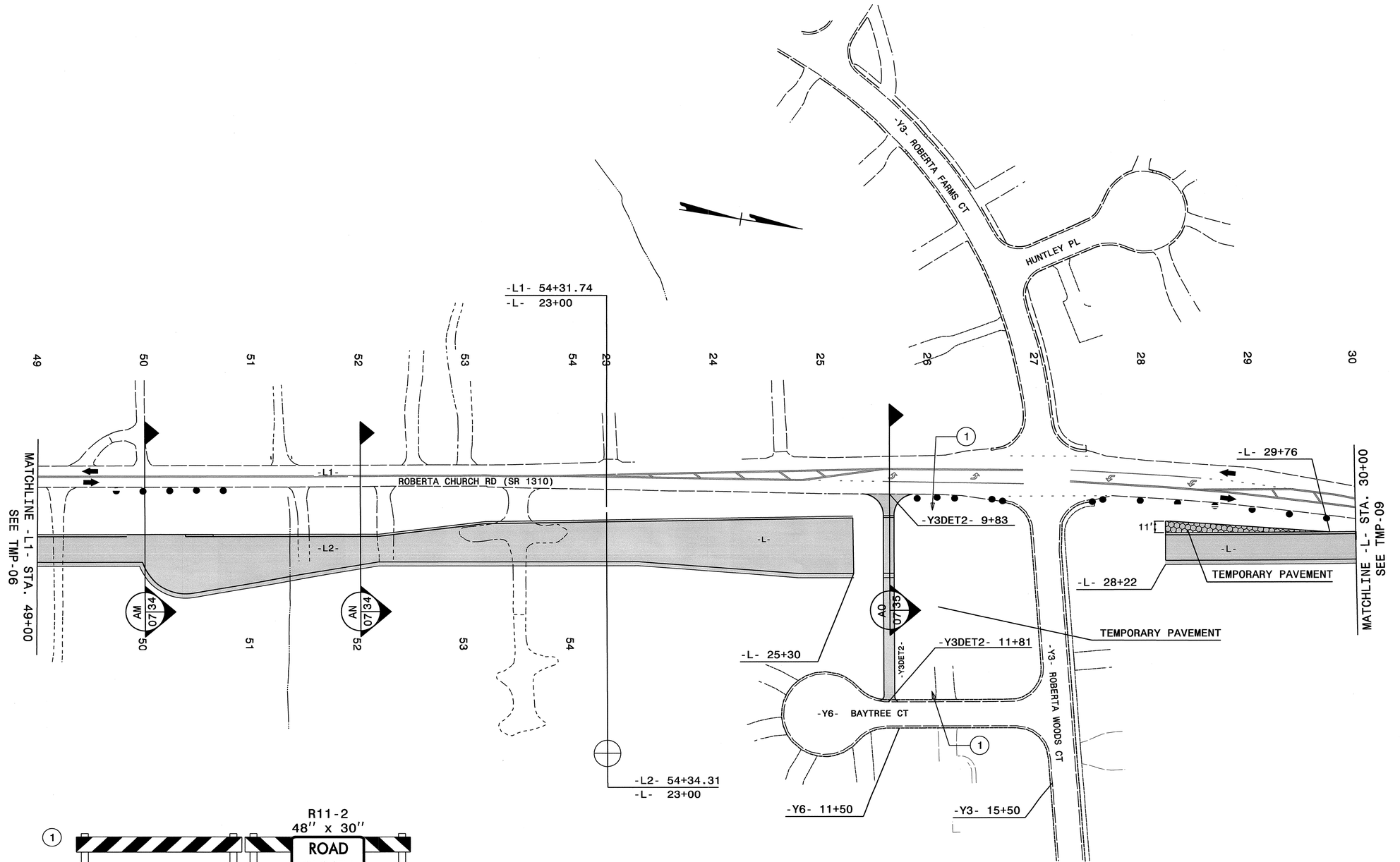

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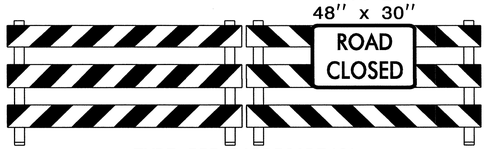
R11-2
48" x 30"

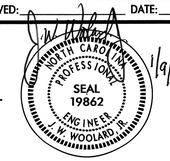


TYPE III BARRICADE(S)

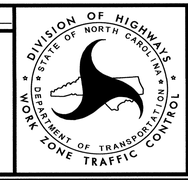
* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL



1/9/13



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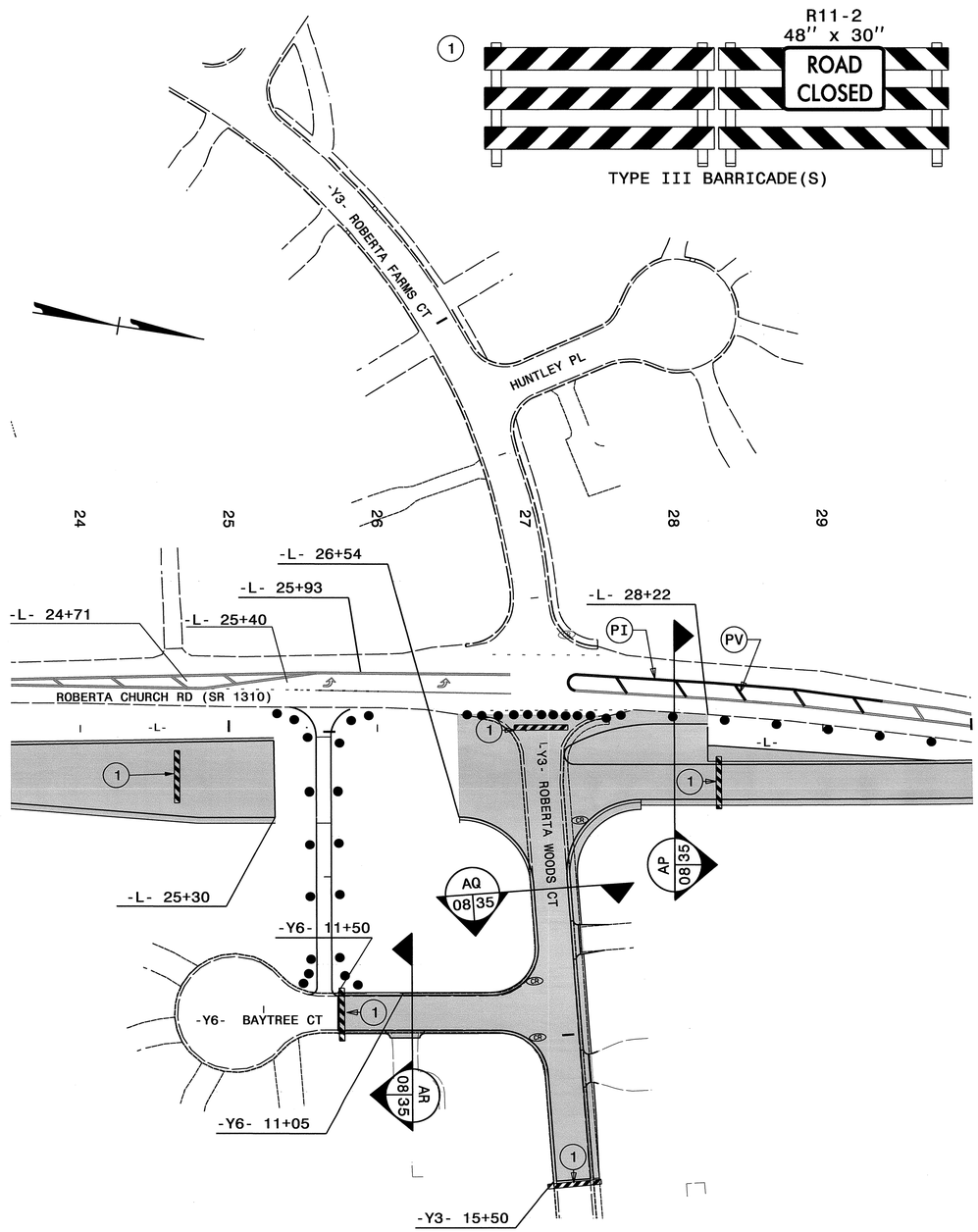
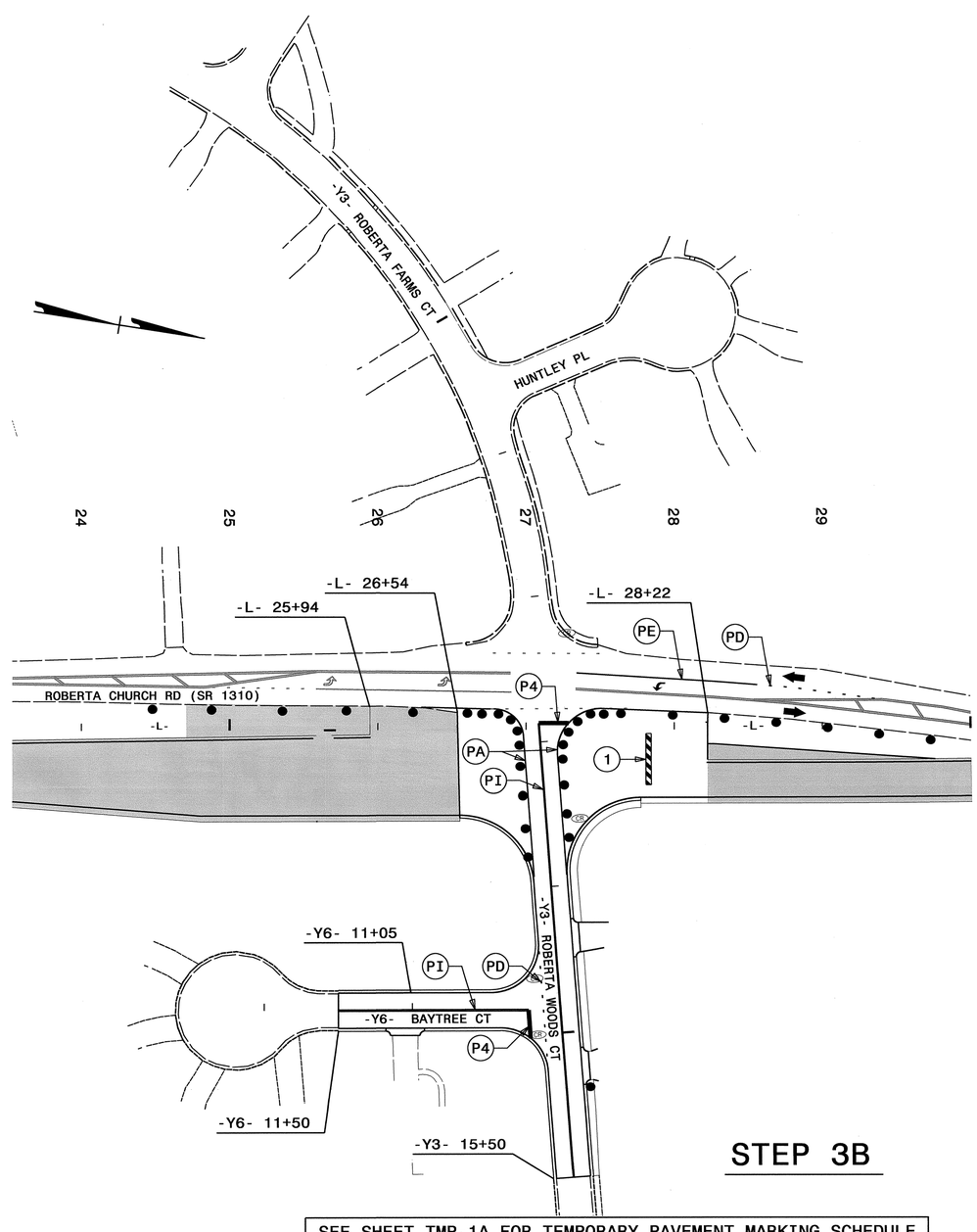
R-2246B	TMP-08



STEP 3A



STEP 3B

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: 12/20/12

SEAL

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

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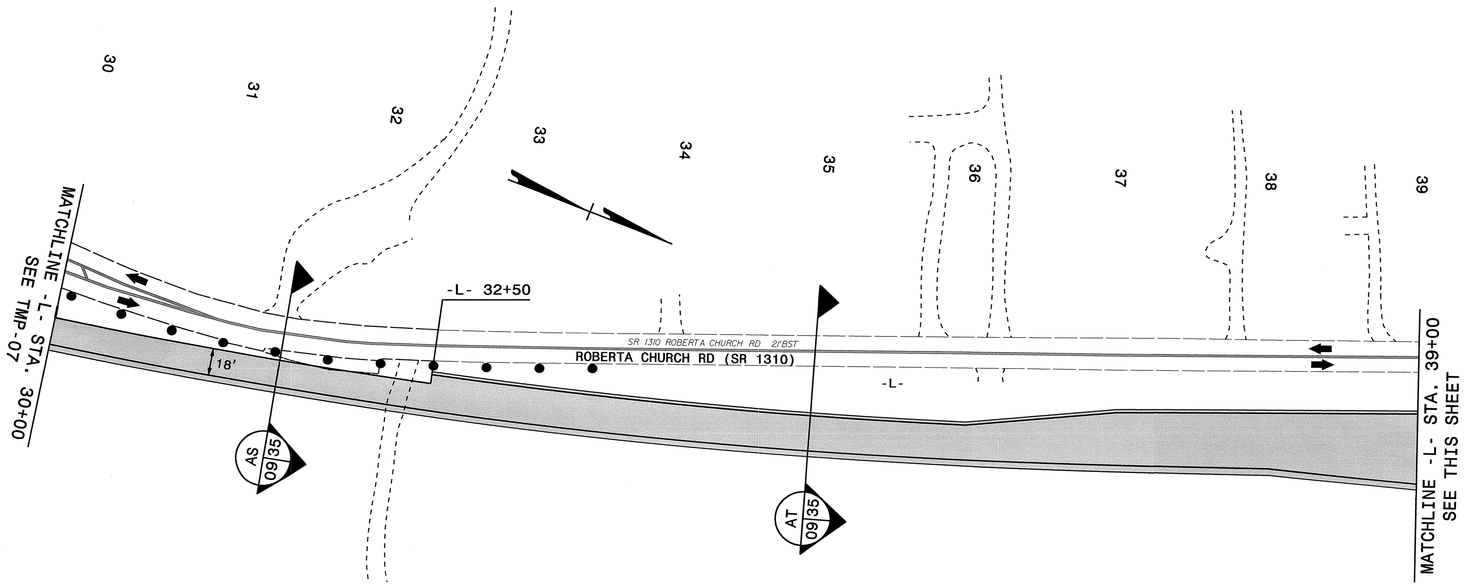

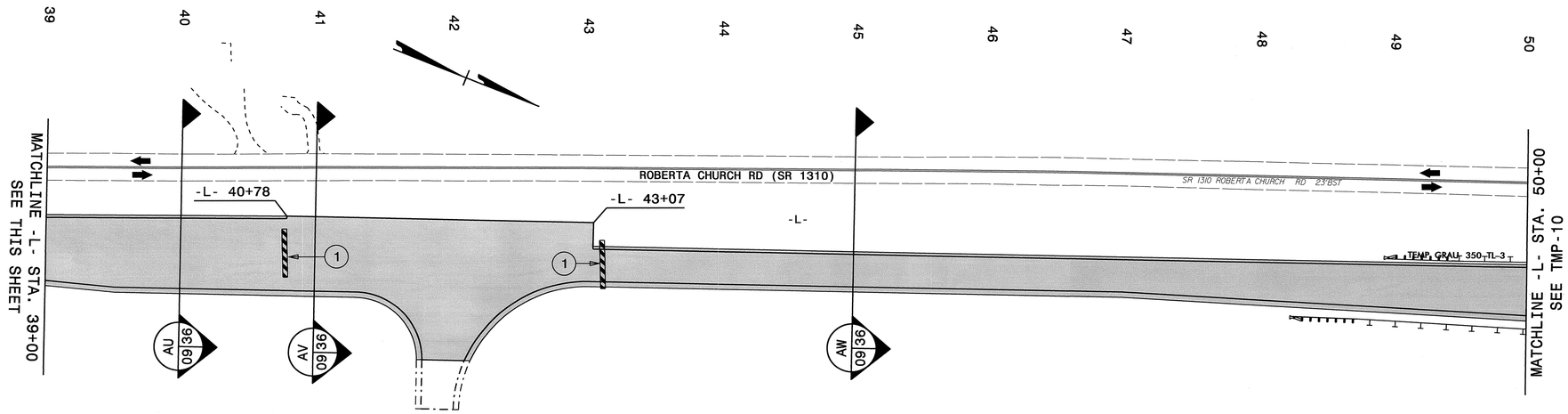

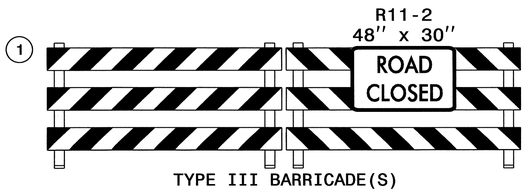

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: DATE:

SEAL

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

12/20/12

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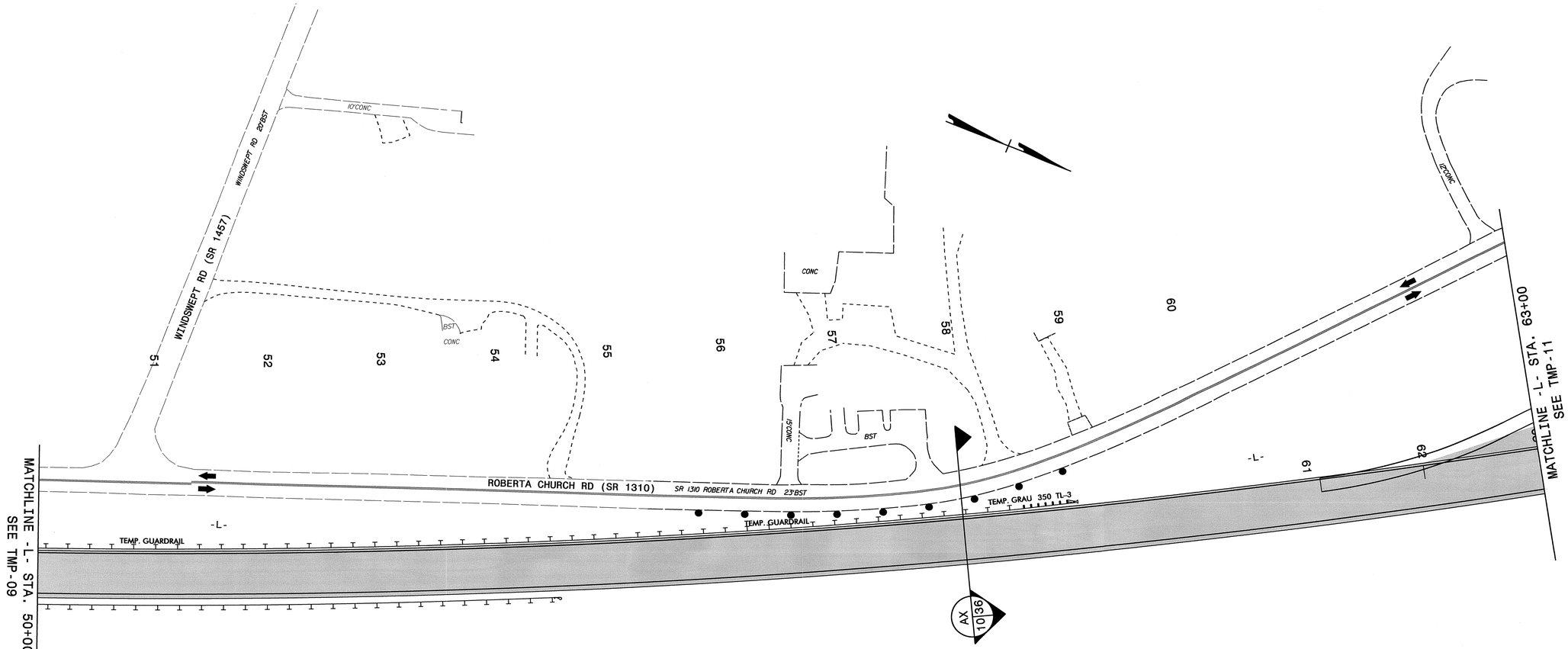
R-2246B	TMP-10



* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

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SEAL

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

12/20/12

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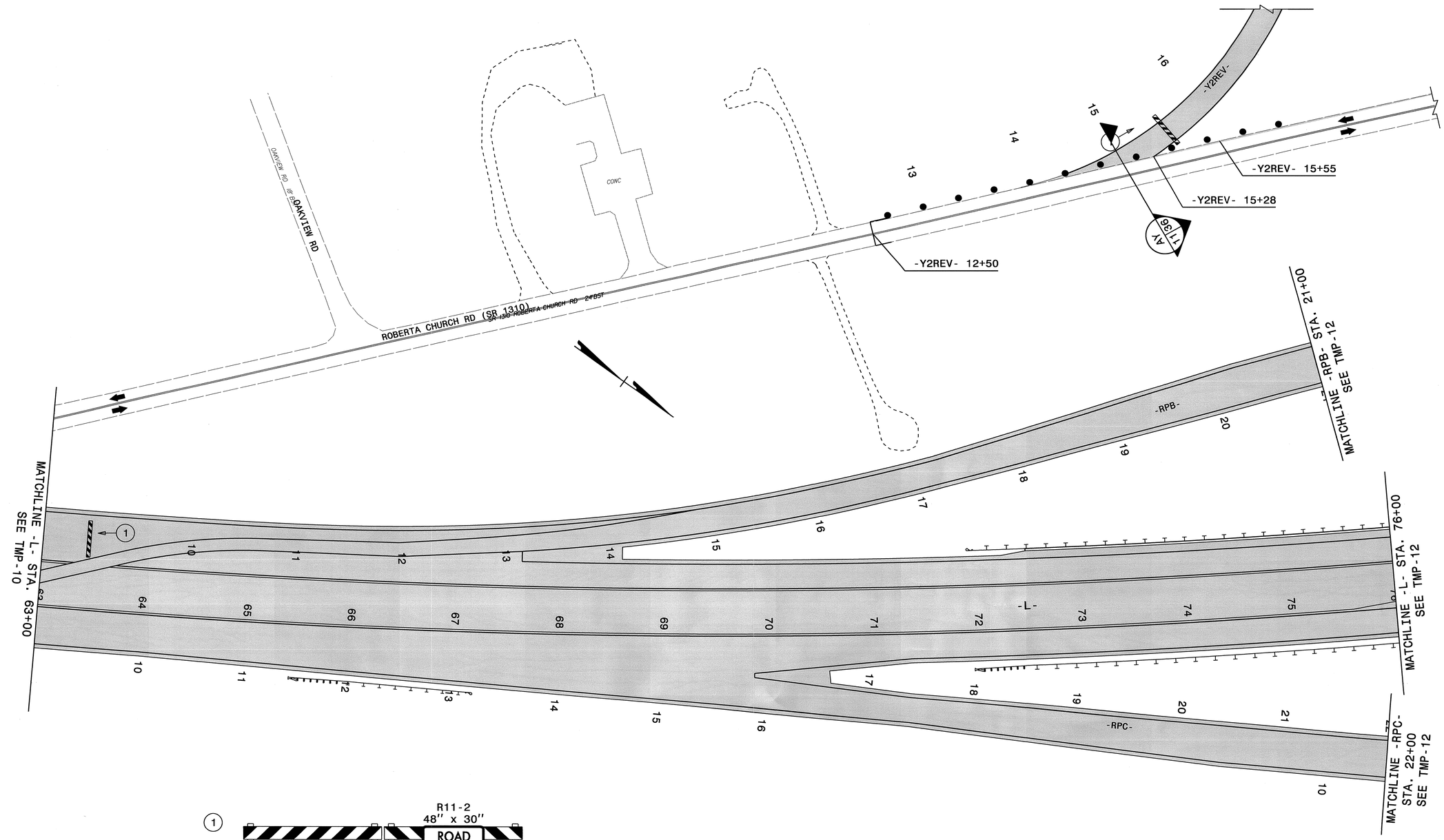

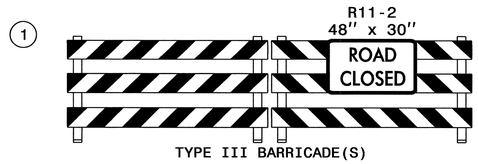

TYPE III BARRICADE(S)

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER W. WOOLAND, JR. 12/20/12

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AT TE26600

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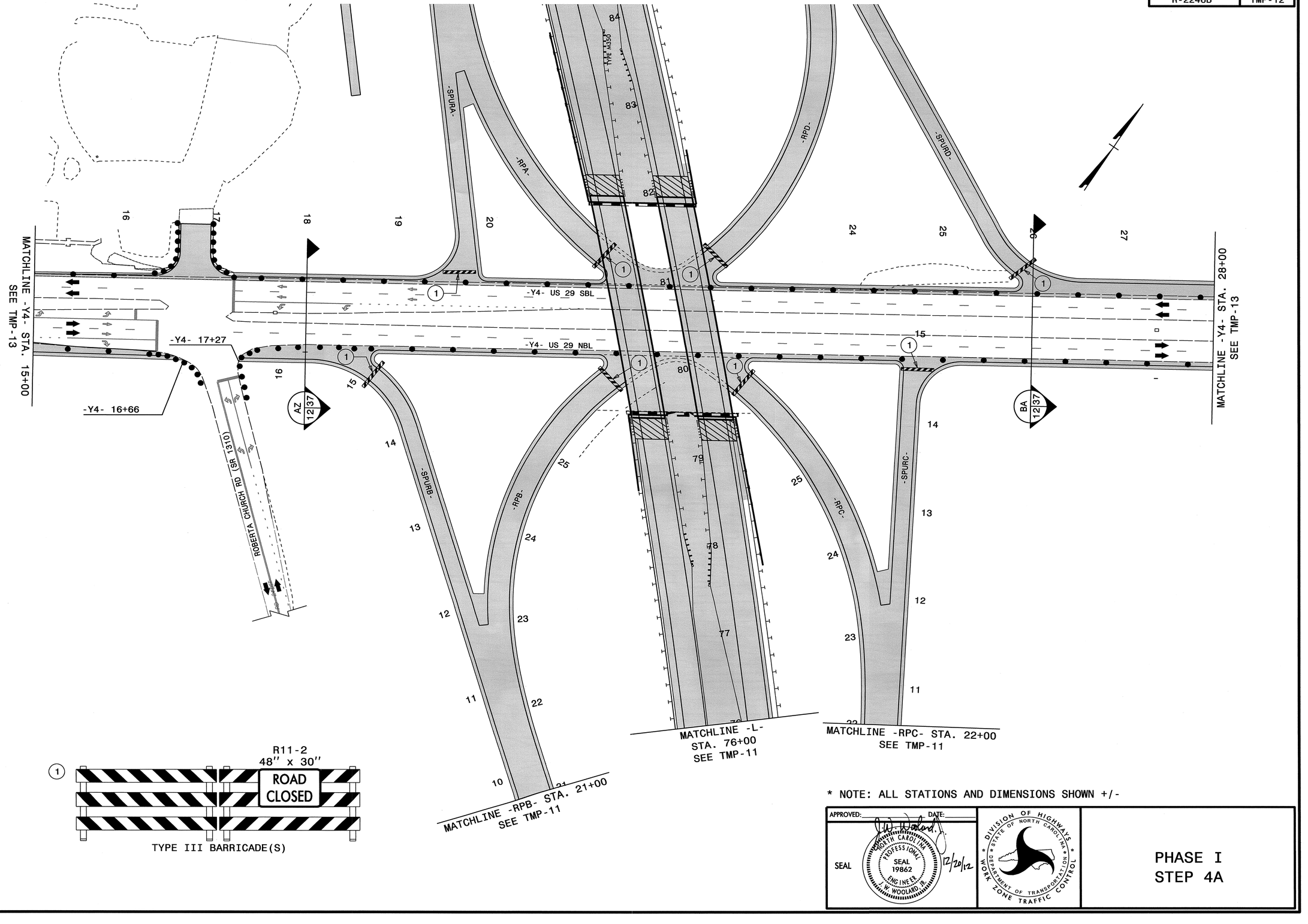

1 R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE(S)

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: DATE: 12/20/12

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

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

PHASE I
STEP 4A

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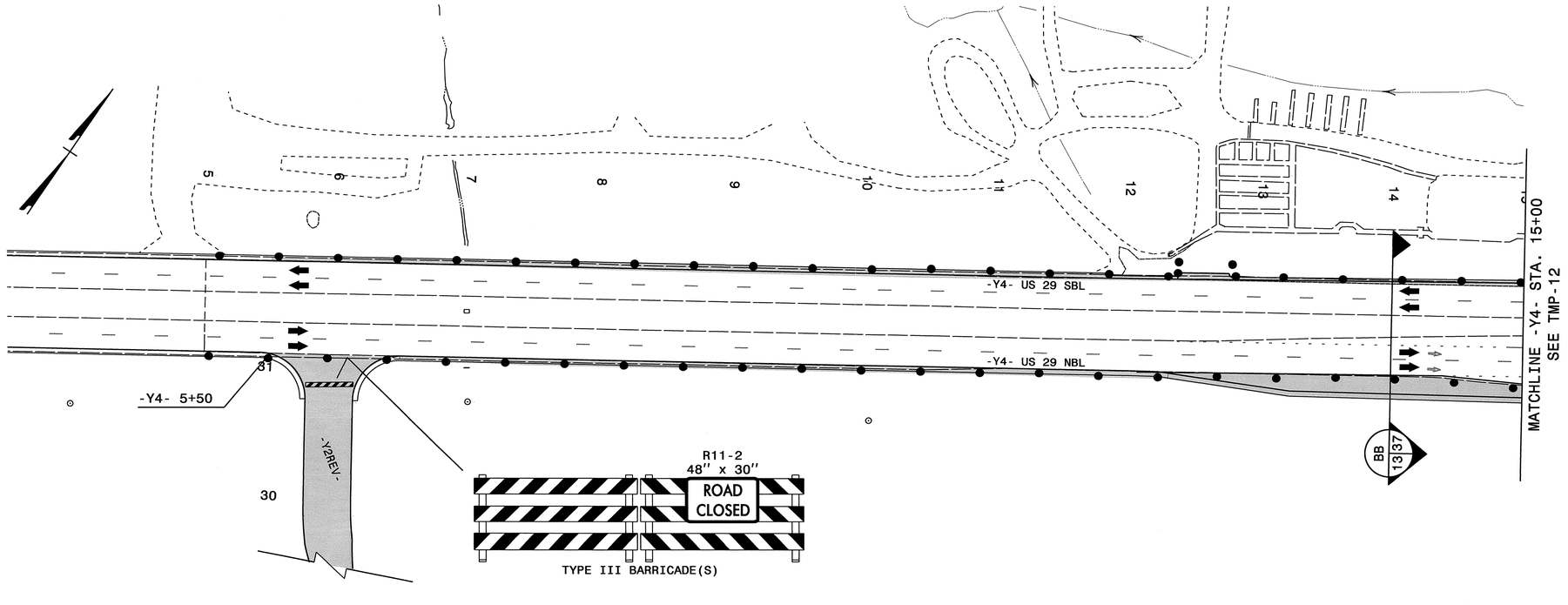

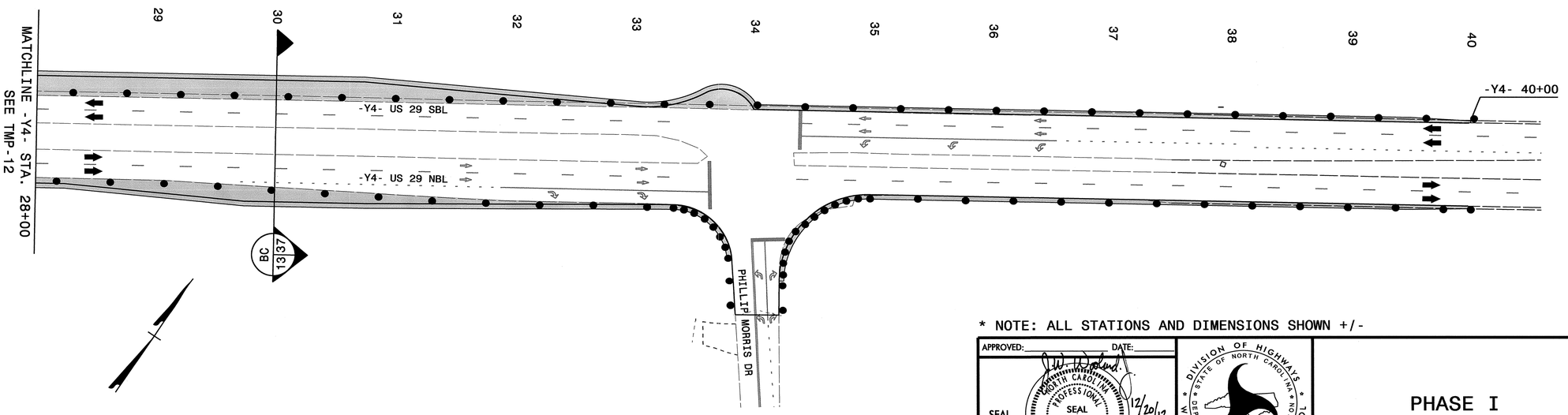

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

12/20/12

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

PHASE I
STEP 4A

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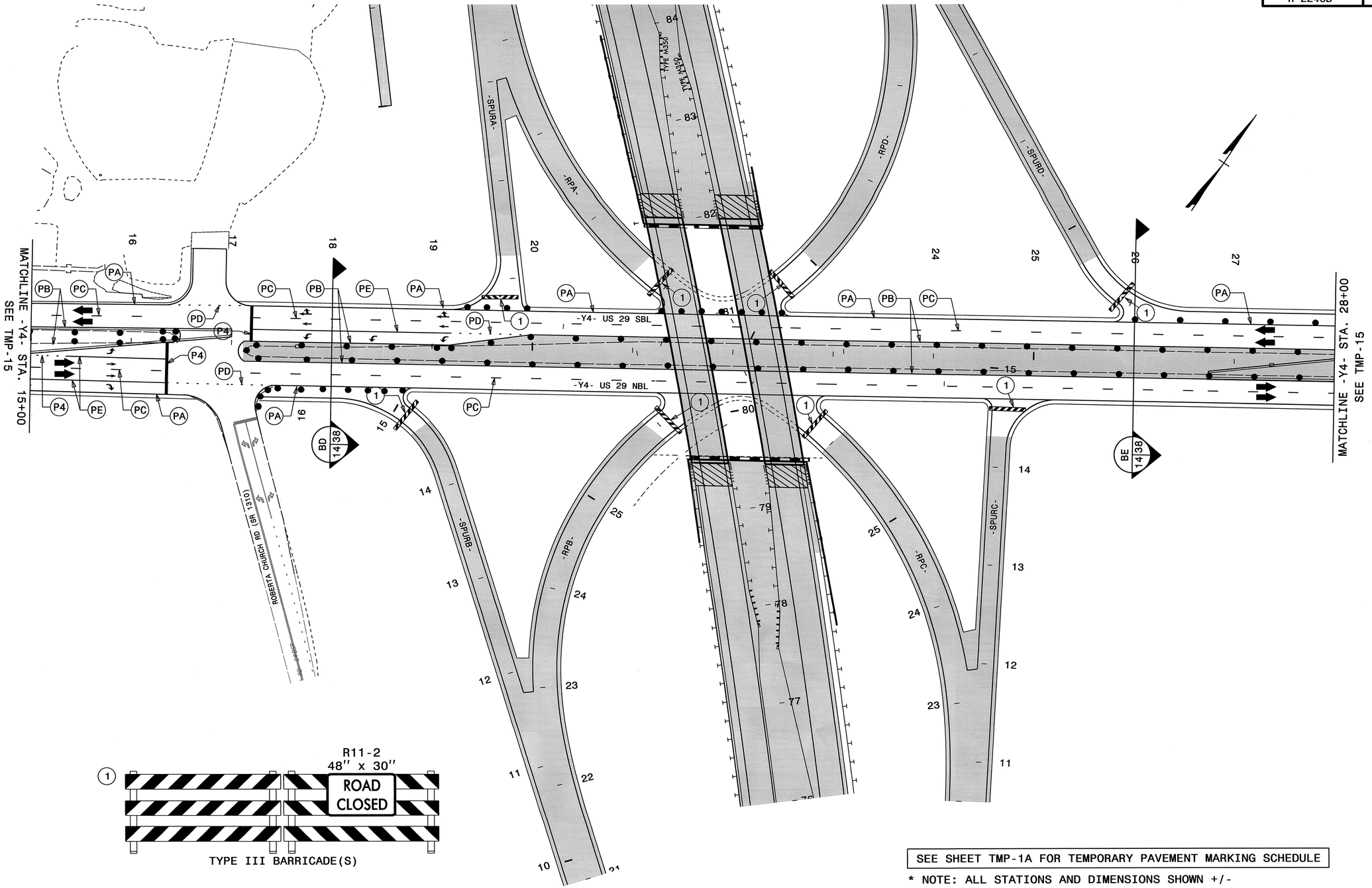
ddklein
AT TE26600

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-14



R11-2
48" x 30"

(1) ROAD CLOSED

TYPE III BARRICADE(S)

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER H. WOOLARD, JR. — 12/20/12

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PHASE I
STEP 4B & 4C

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dklein AT TE26601

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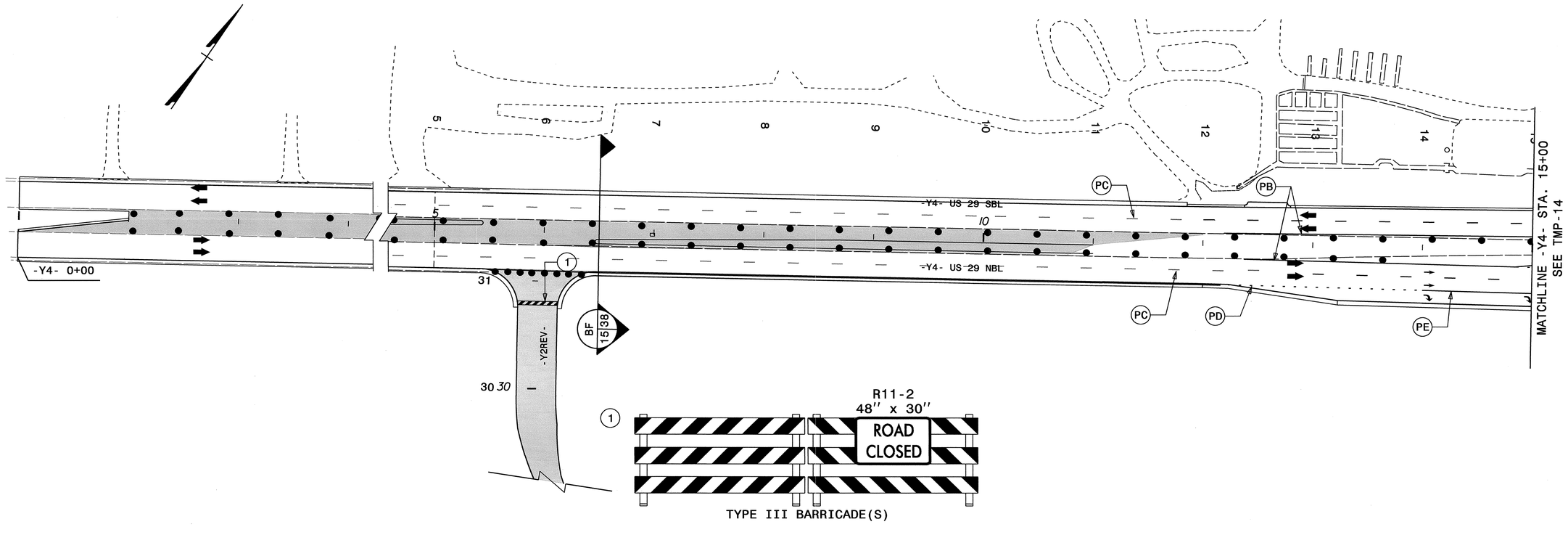
R-2246B	TMP-15



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER W. WOOLARD, JR. 12/20/12

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

PHASE I
STEP 4B & 4C

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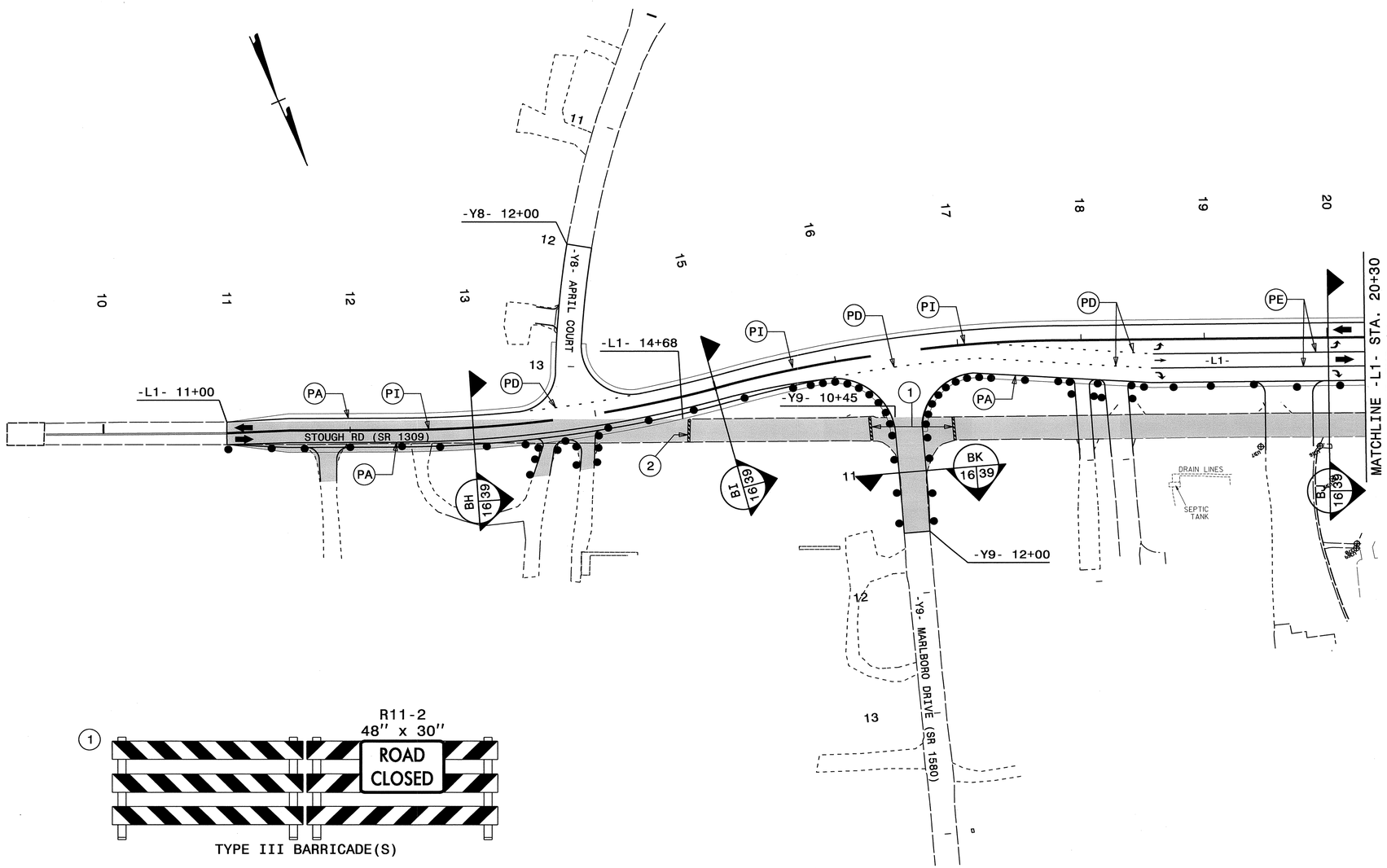
adklein AT TE26601

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-16



TYPE III BARRICADE(S)

TYPE III BARRICADE

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

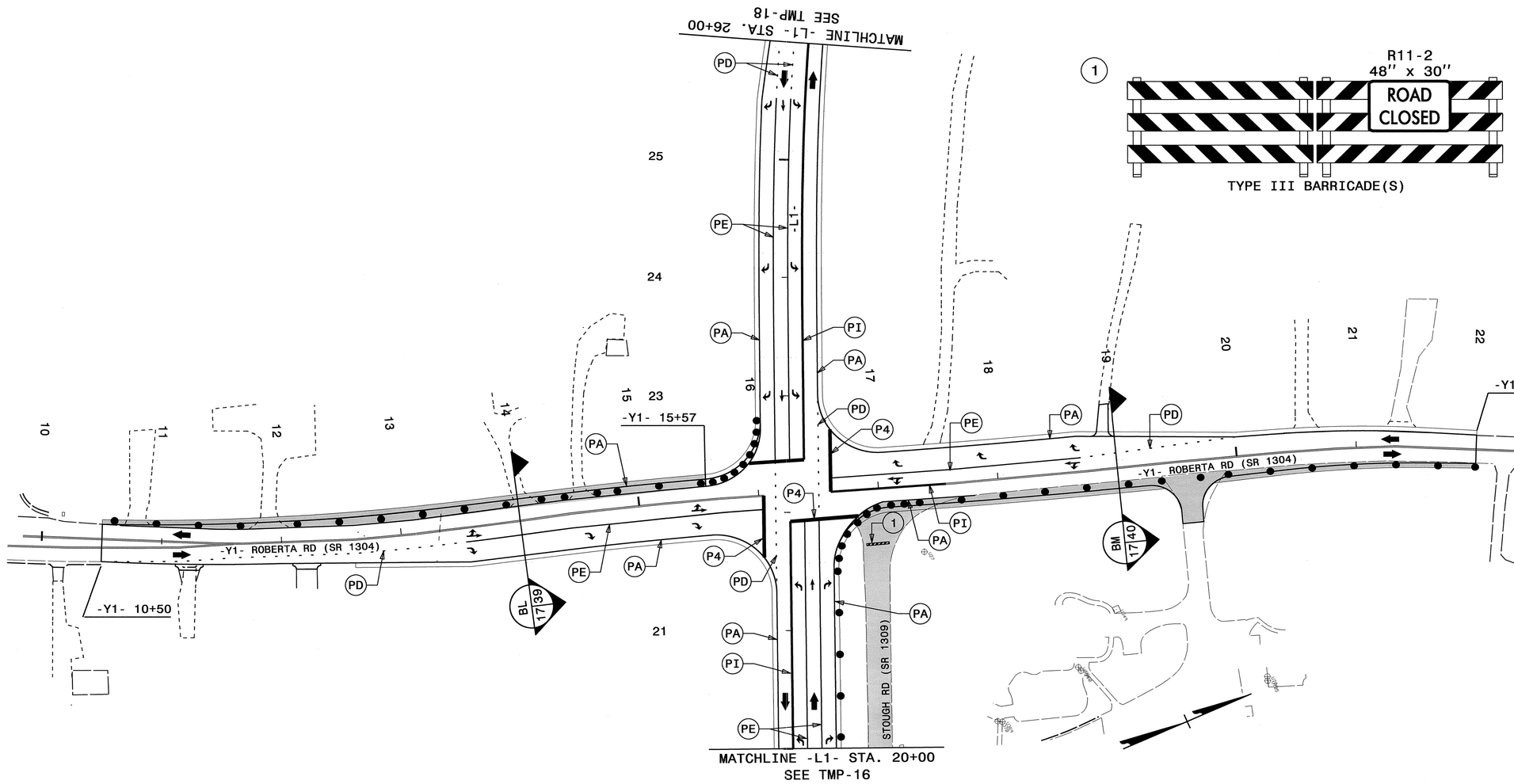
12/20/12

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

PHASE II

20-DEC-2012 08:22
\\dot\dfsroot01\proj\TIPProjects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-16.dgn
dklein AT TE26600

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-17



1 R11-2 48" x 30" ROAD CLOSED

TYPE III BARRICADE(S)

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

12/20/12

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

PHASE II

20-DEC-2012 10:32
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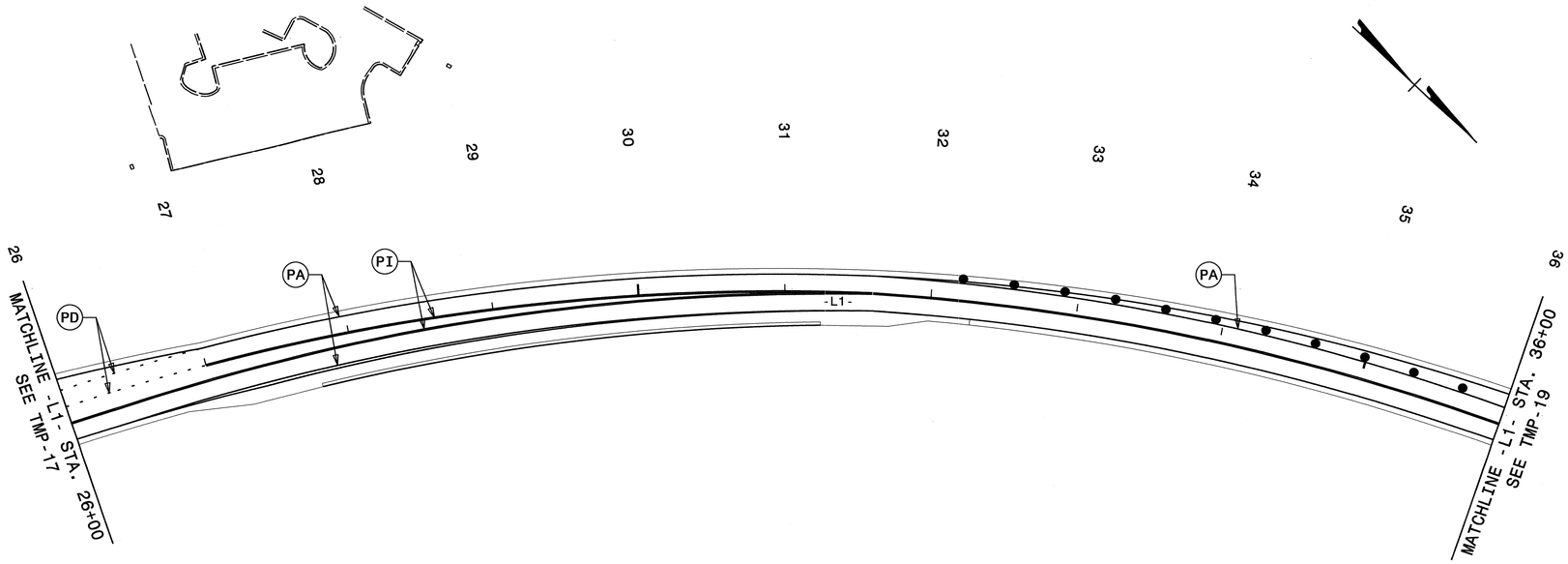
ddklein AT TE26600

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-18



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER W. WOOLARD JR.

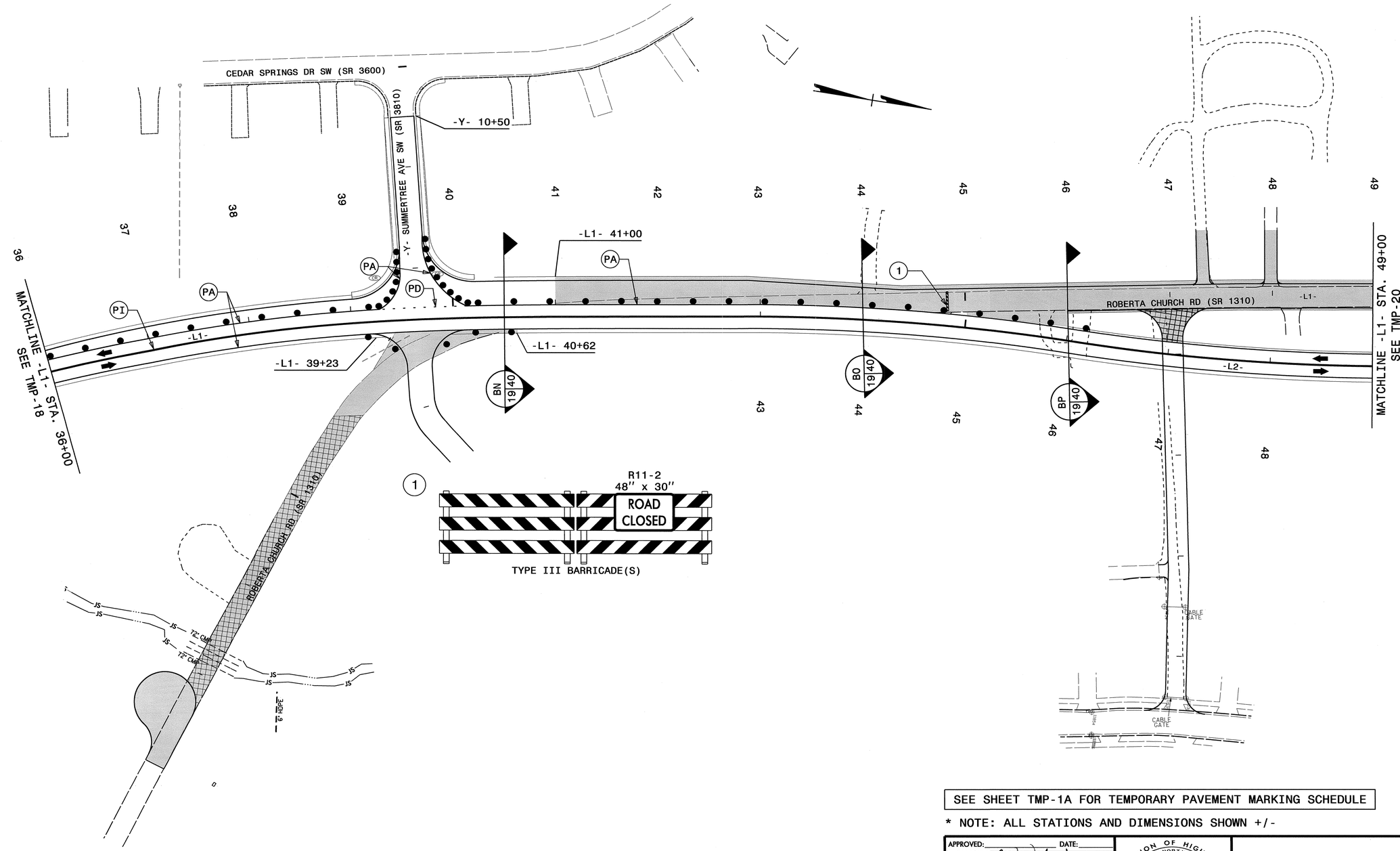
12/20/12

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

PHASE II

20-DEC-2012 10:22
\\dot\dfsroot01\proj\TIPProjects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-18.dgn
ddklein AT TE26600

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-19



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER W WOOLARD JR

12/20/17

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

PHASE II

20-DEC-2012 10:13
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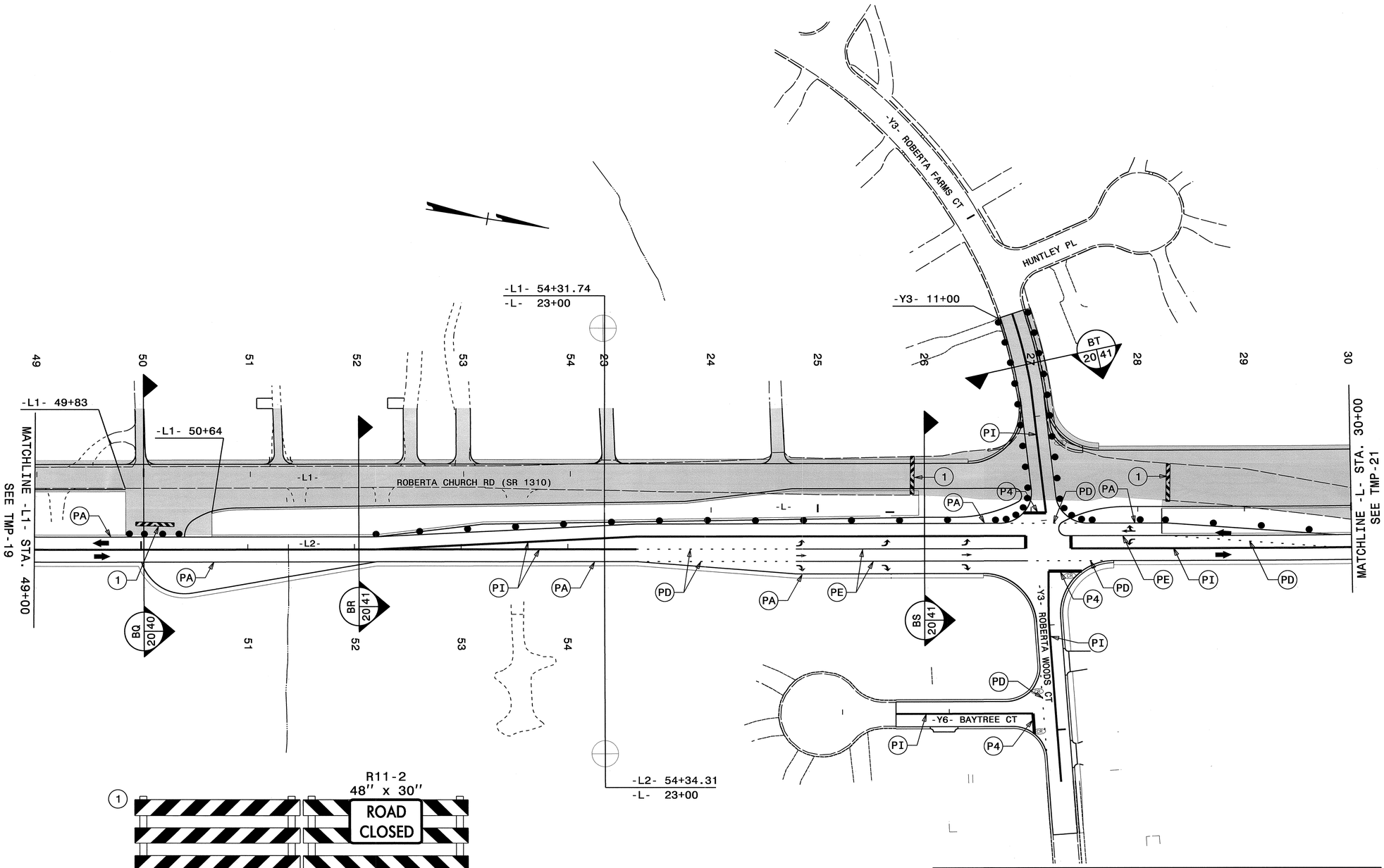
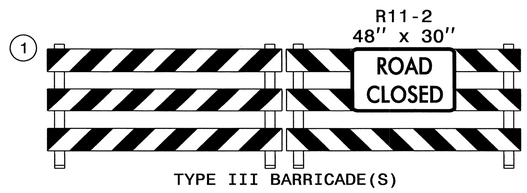
ddklein AT TE26600

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-20





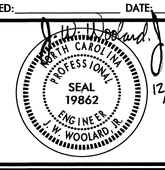
TYPE III BARRICADE(S)

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL



PHASE II

20-DEC-2012 10:24
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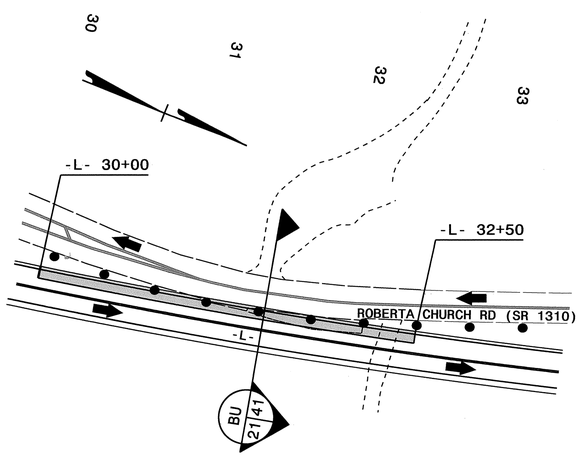
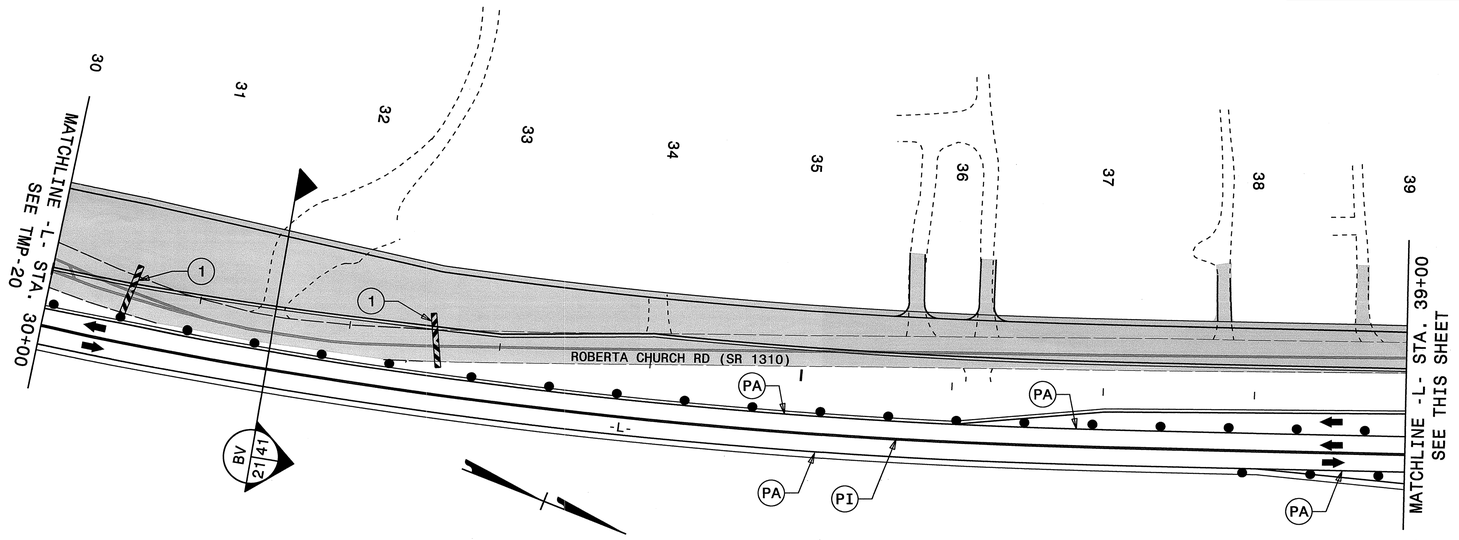
dokein AT TE26600

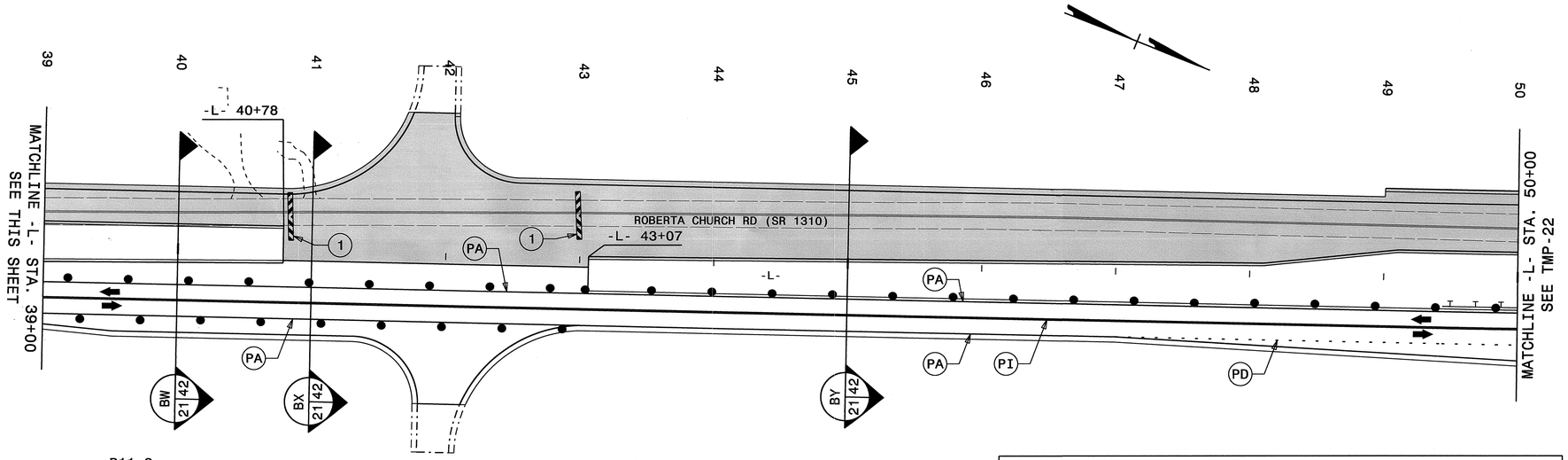
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-21



STEP 1B



STEP 1C



1 R11-2 48" x 30" ROAD CLOSED

TYPE III BARRICADE(S)

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

12/20/12

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

PHASE II

20-DEC-2012 10:26
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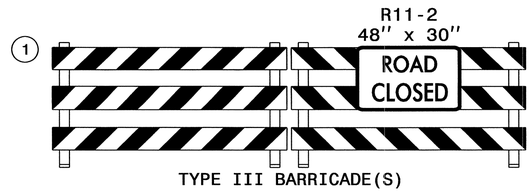
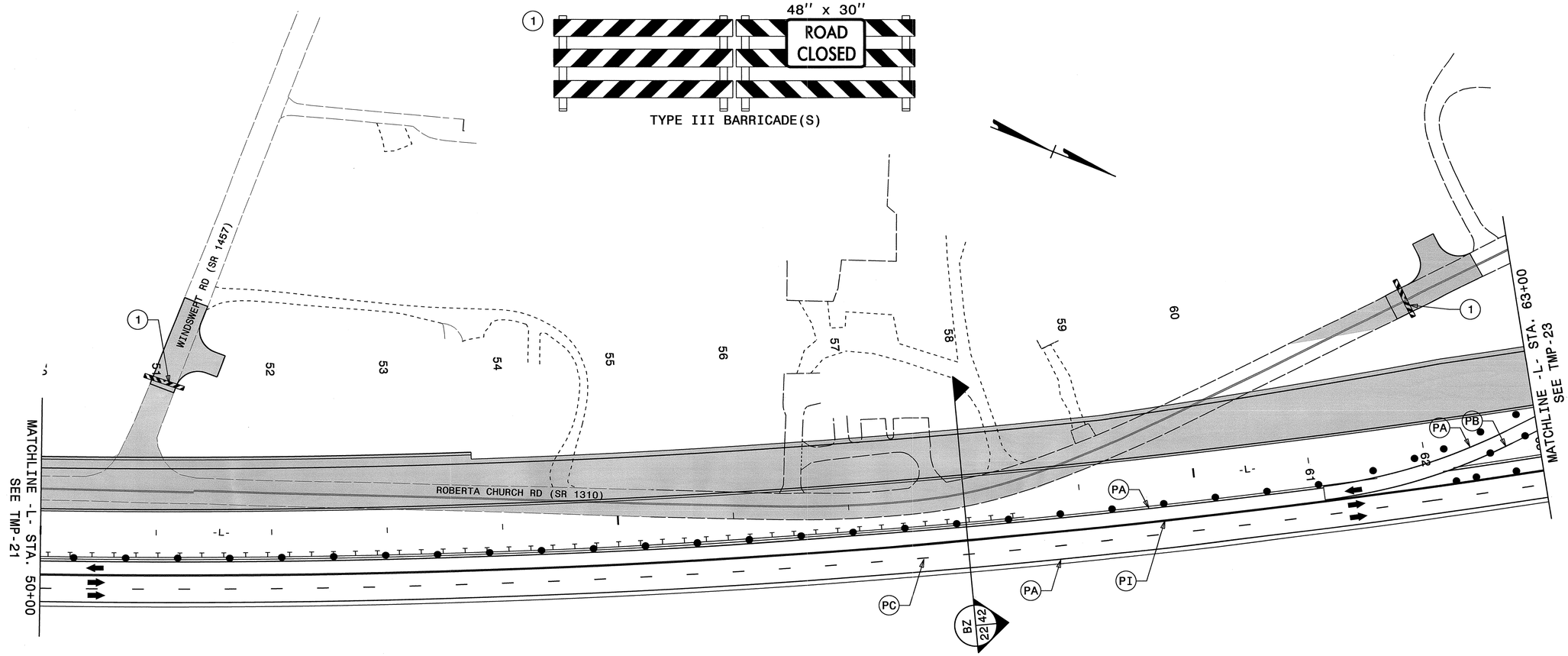
dklein AT TE26601

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-22



TYPE III BARRICADE(S)



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

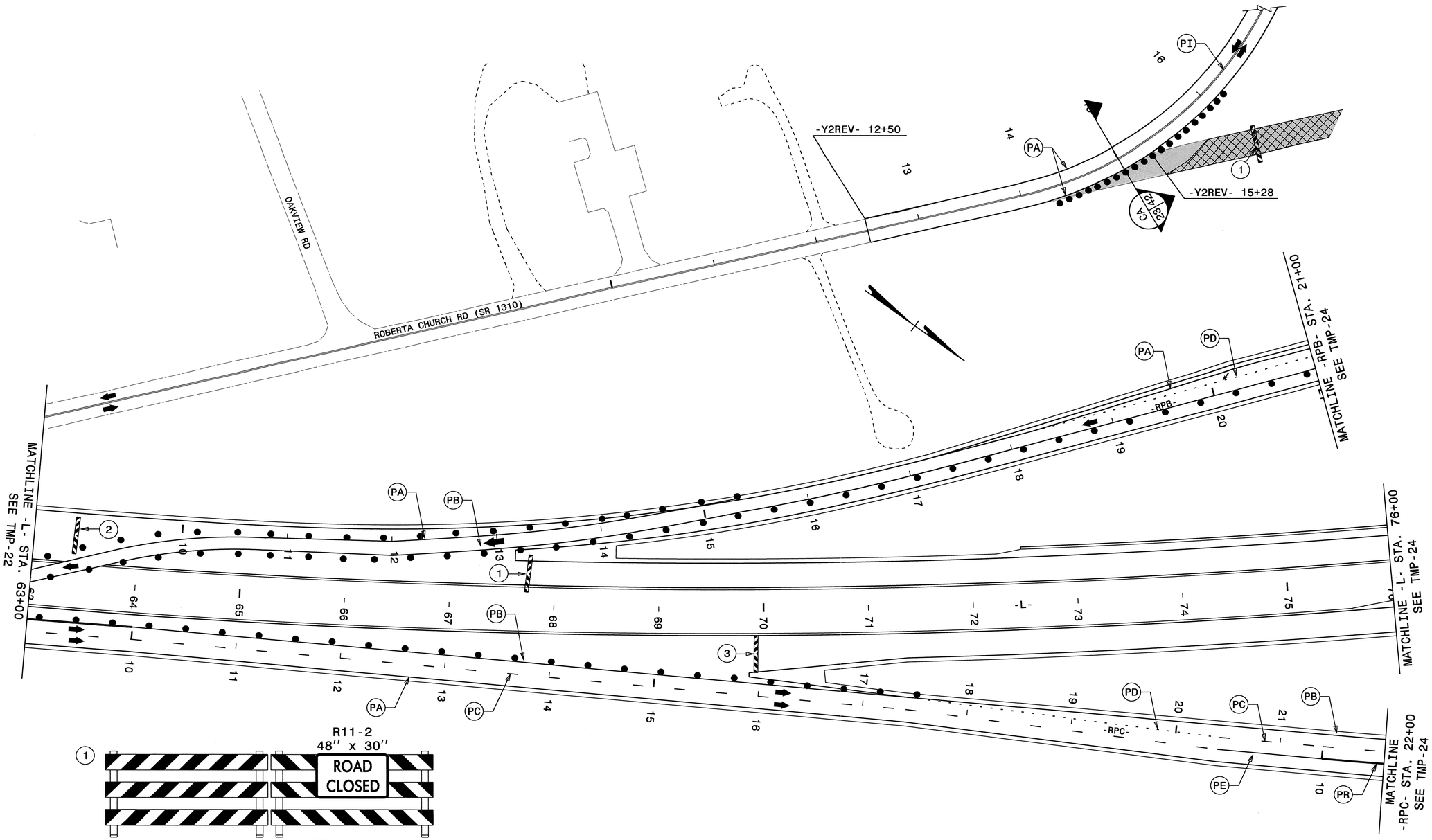
12/20/12

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

PHASE II

20-DEC-2012 08:54
\\dot.dfsroot01\proj\TIPProjects-R\R2246B\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-22.dgn
dklein AT TE26601

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-23



1 R11-2 48" x 30"

ROAD CLOSED

TYPE III BARRICADE(S)

2 R11-2 48" x 30"

ROAD CLOSED

W1-6L 48" x 24"

TYPE III BARRICADE

3 R11-2 48" x 30"

ROAD CLOSED

W1-6R 48" x 24"

TYPE III BARRICADE

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER W. WOOLARD

12/20/12

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

PHASE II

20-DEC-2012 10:09
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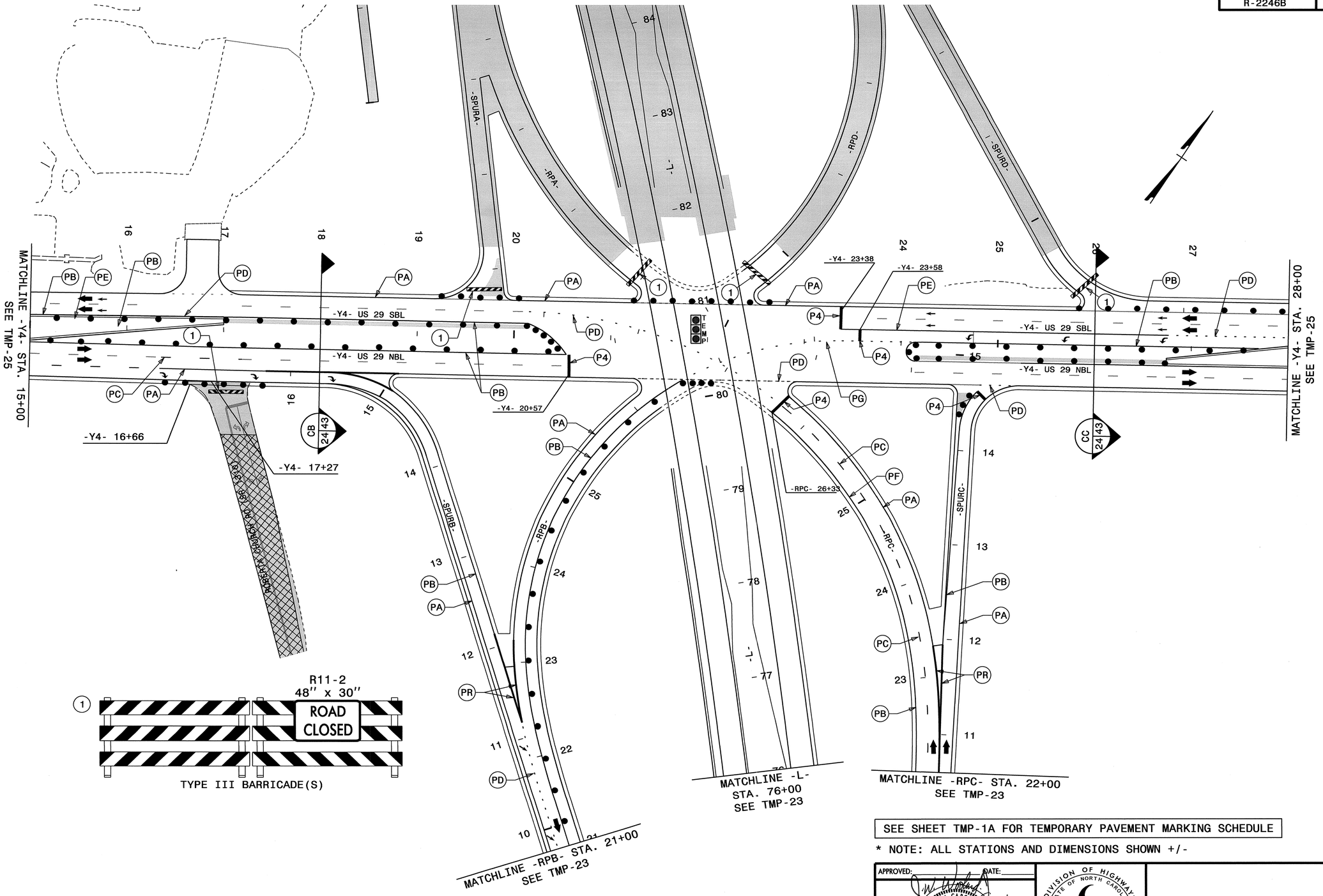
ddklein AT TE26600

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-24



TYPE III BARRICADE(S)

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: DATE: 1/9/13

SEAL

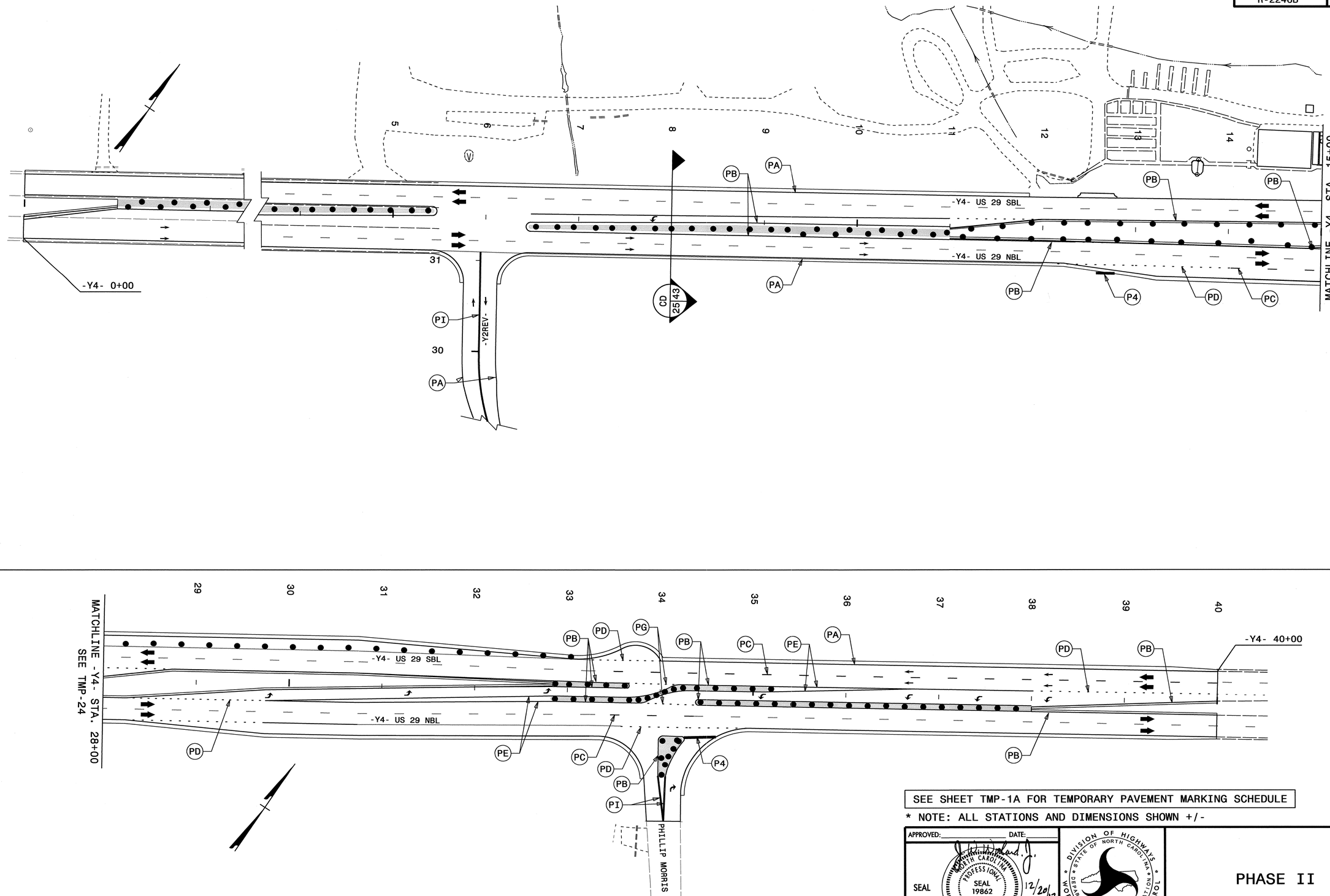
NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER W. WOOLARD, JR.

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

PHASE II

07-JAN-2013 12:09
\\dot\dfsroot0\proj\TIPProjects-RVR2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-24.dgn
adklein AT TE26600

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-25



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR. — 12/20/12

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

PHASE II

20-DEC-2012 09:53
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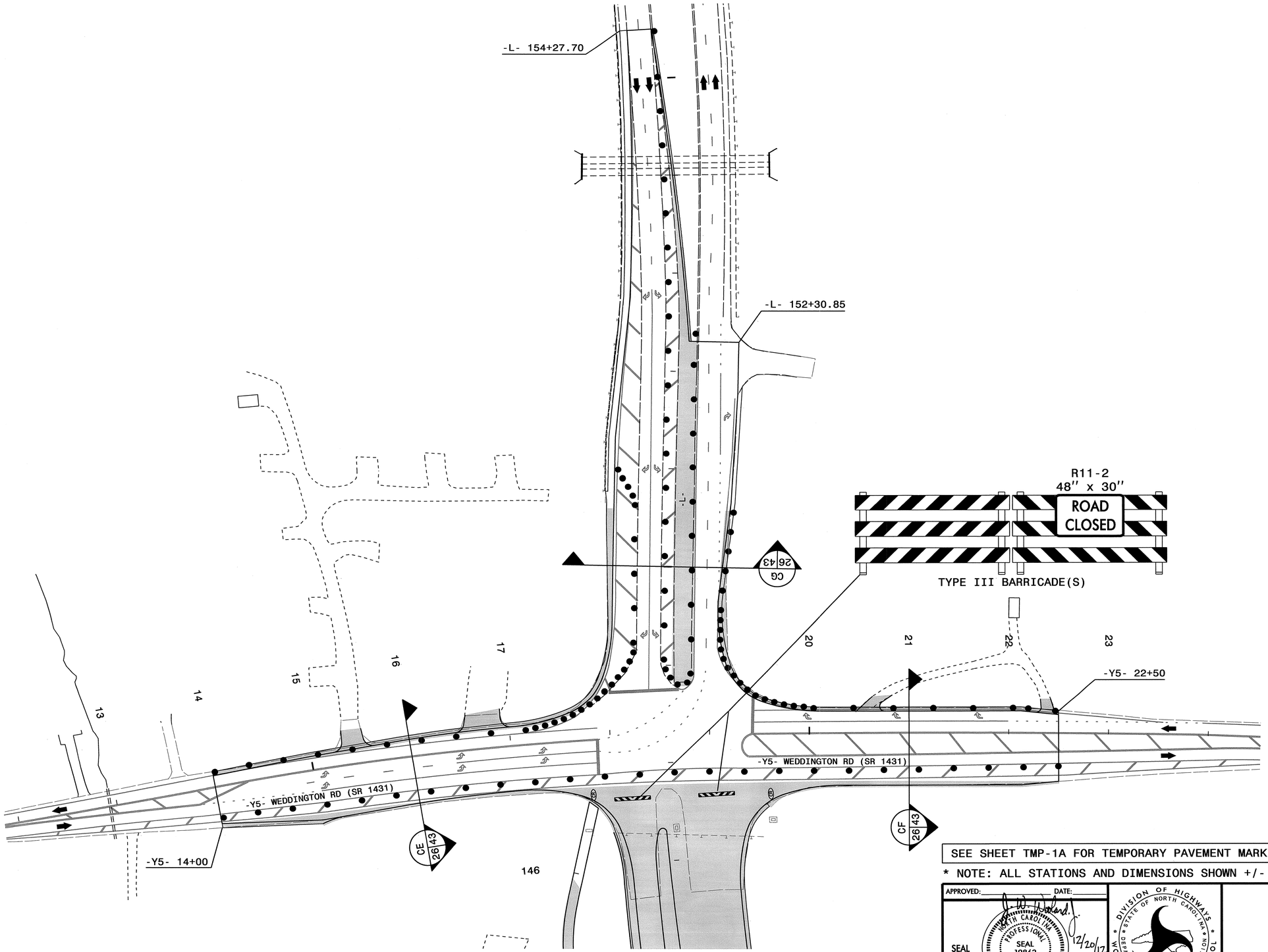
dsklein AT TE26600

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-26



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: 12/20/17

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER W. WOOLARD JR.

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

PHASE II

20-DEC-2012 09:53
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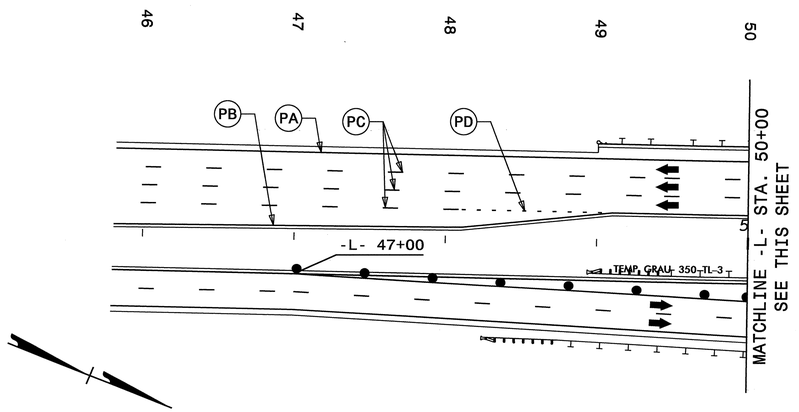
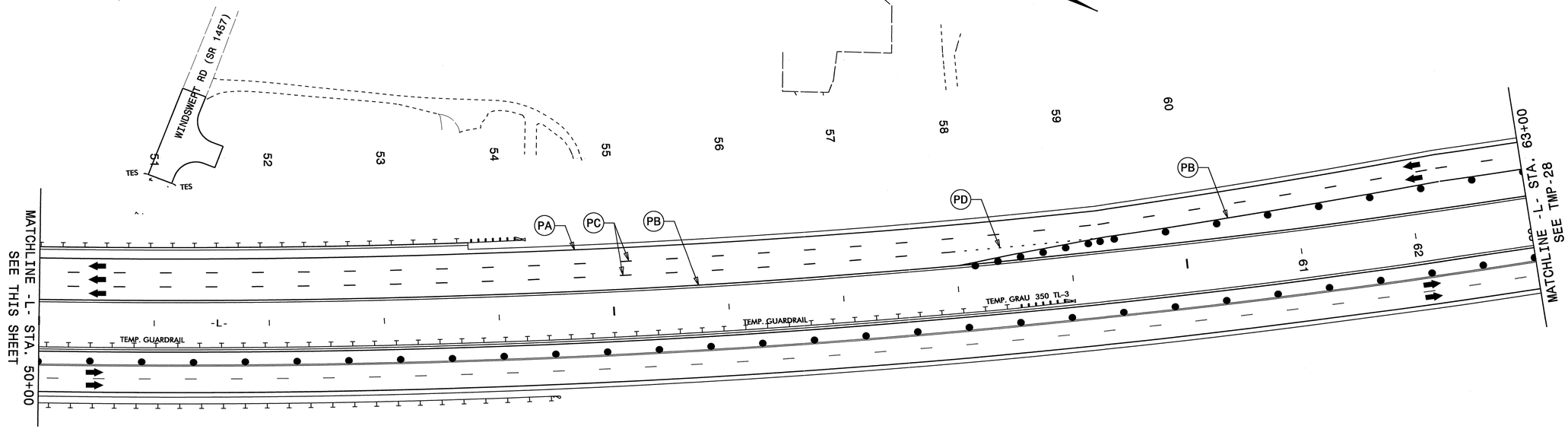
dsklein AT TE26001

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-27





SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER W. WOOLARD JR.

12/20/12

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

PHASE III

20-DEC-2012 10:28
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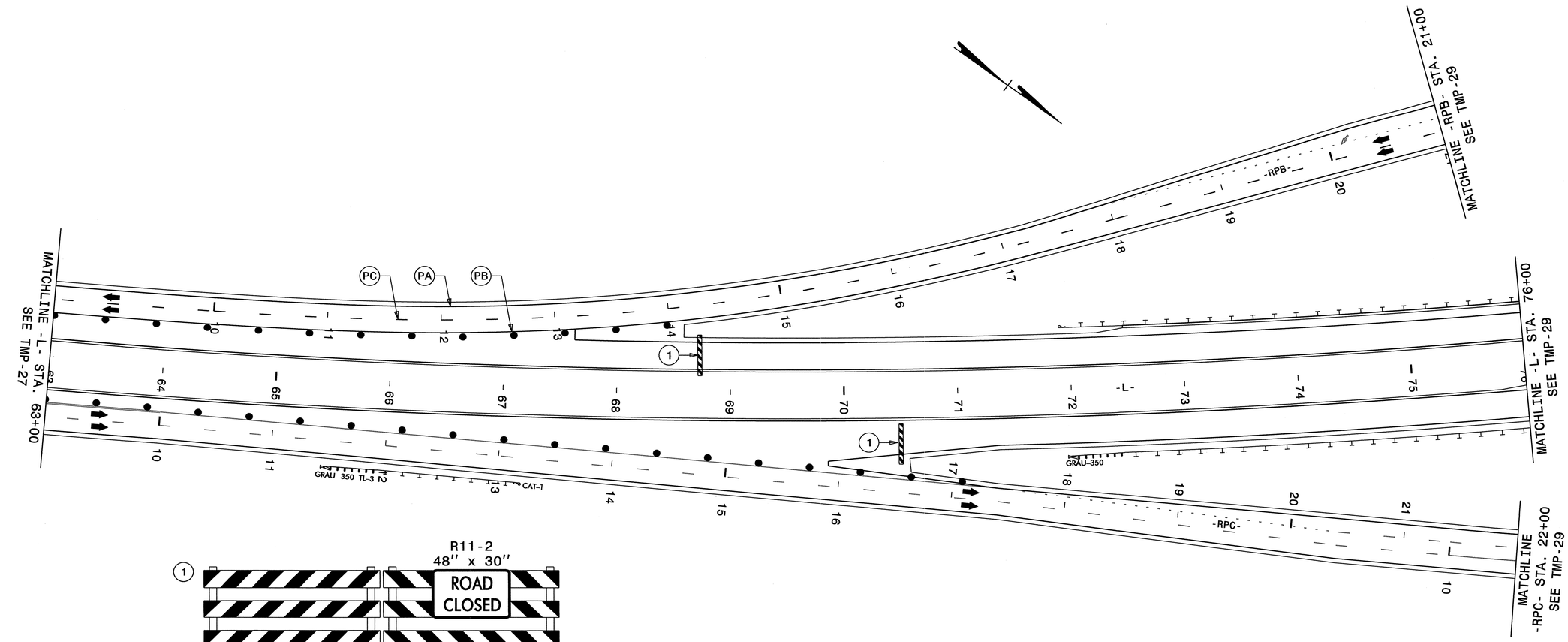
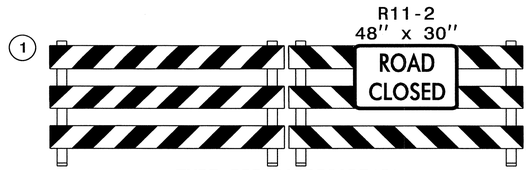
dklein AT TE26601

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-28





TYPE III BARRICADE(S)

SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

12/20/12

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

PHASE III

20-DEC-2012 10:48
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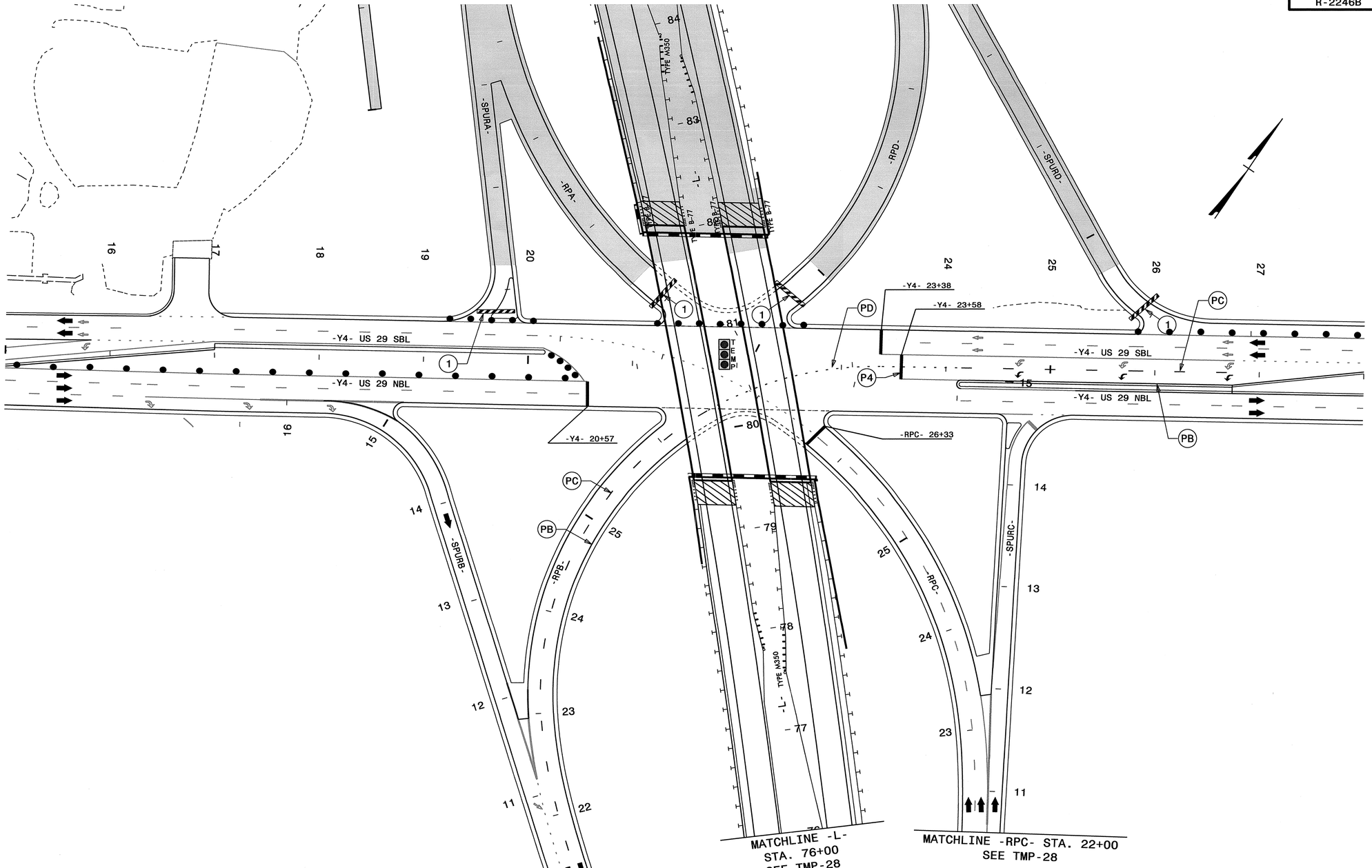
ddklein
AT TE26600

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-29



SEE SHEET TMP-1A FOR TEMPORARY PAVEMENT MARKING SCHEDULE

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER W. WOOLARD JR.

1/9/13

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

PHASE III

07-JAN-2013 12:16
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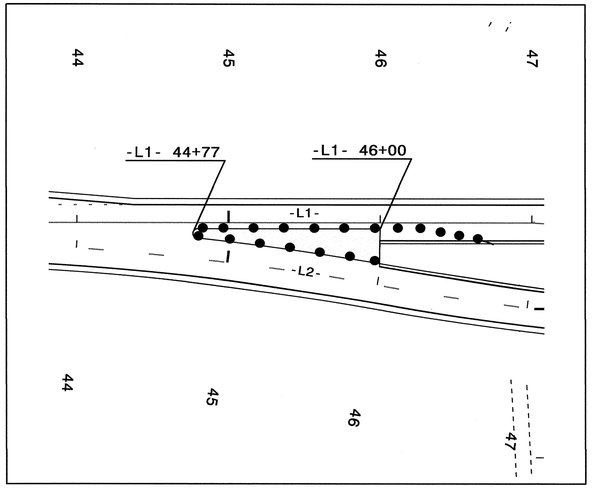
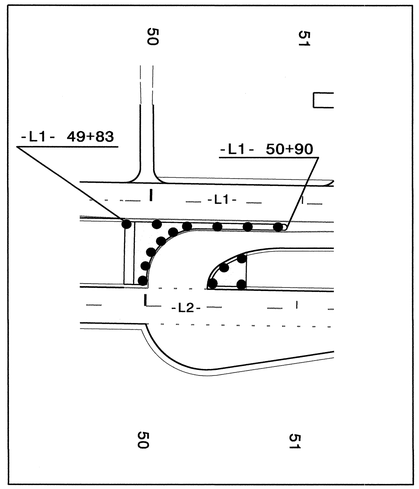
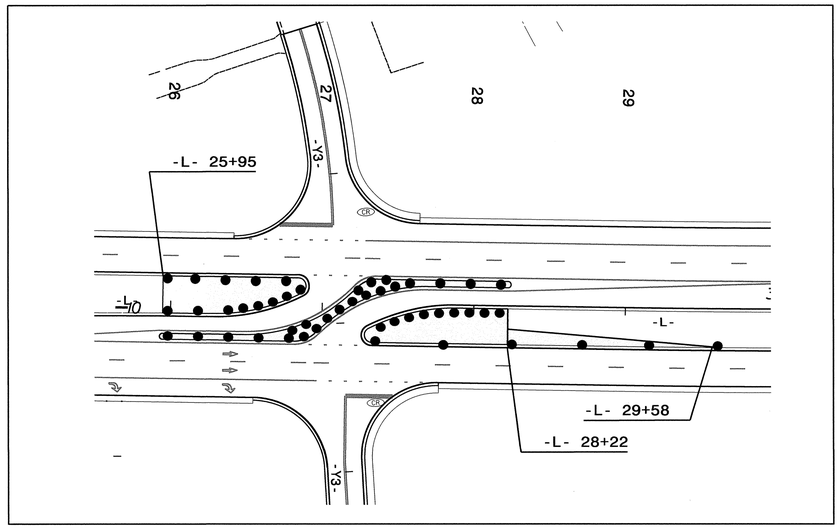
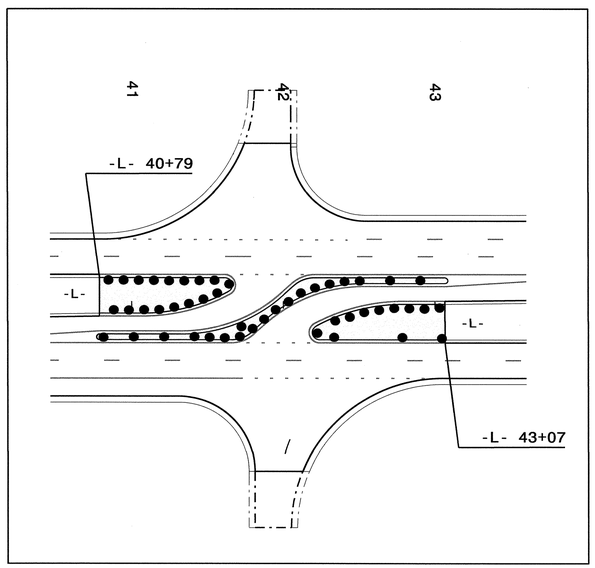
ddklein AT T226001

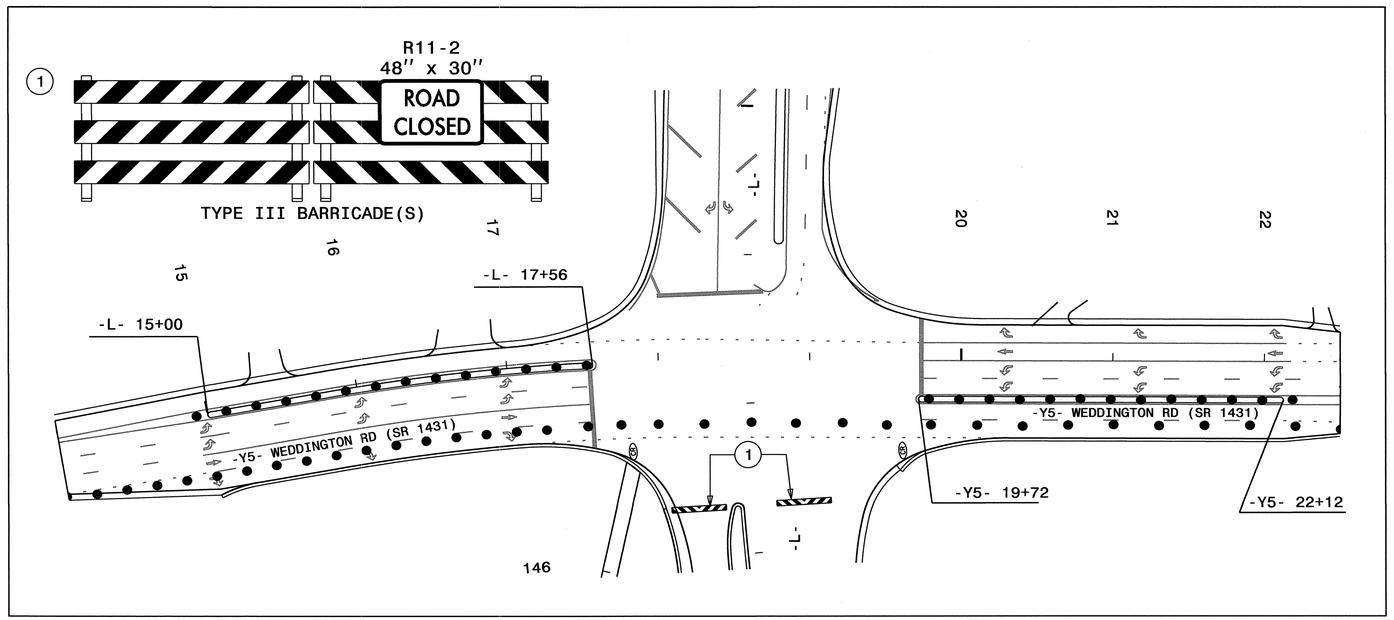
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-30











07-JAN-2013 08:45
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dsklein AT TE26600

APPROVED: _____ DATE: 1/9/13

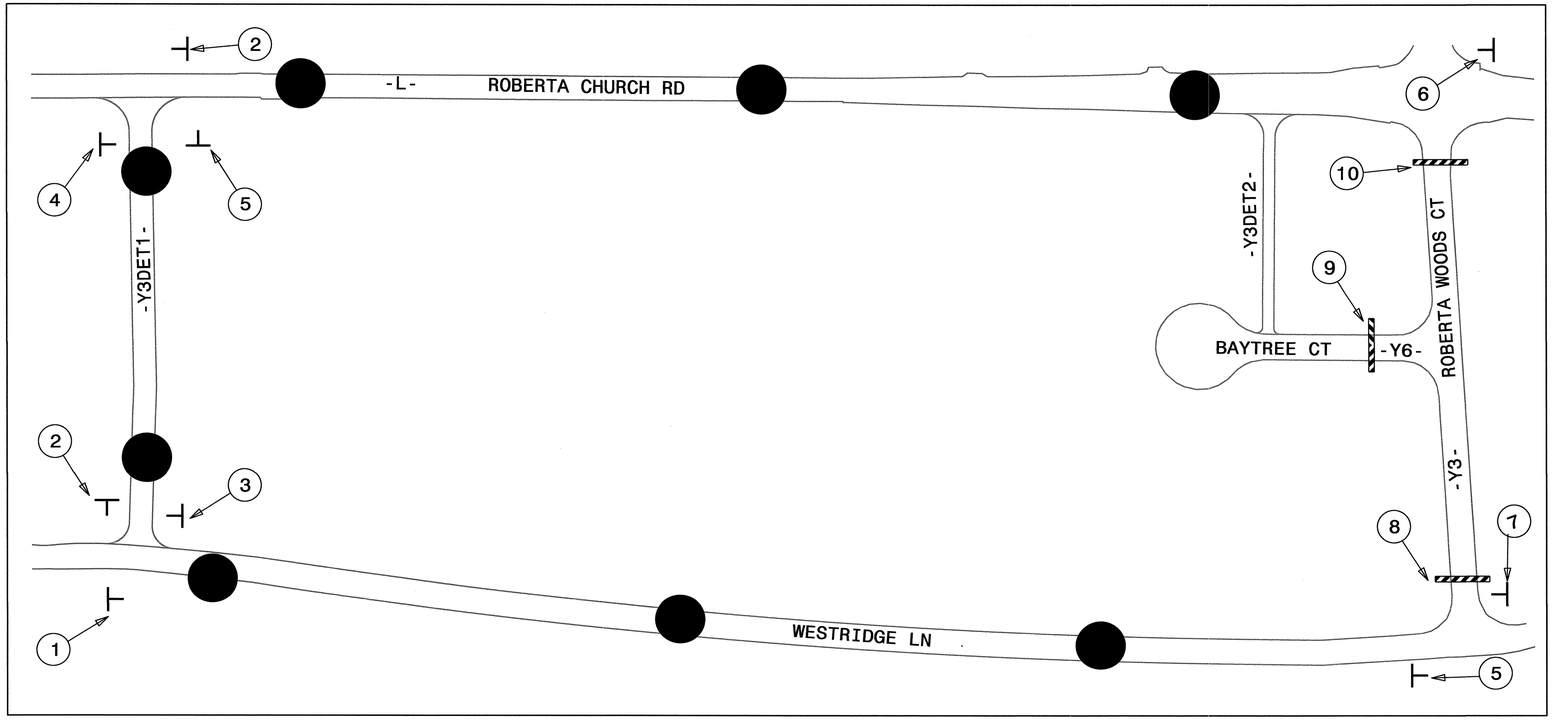
SEAL

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

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

PHASE III

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-31



R11-2
48" x 30"
ROAD CLOSED
DETOUR
M4-10L
48" x 18"
TYPE III BARRICADE
8

R11-2
48" x 30"
ROAD CLOSED
TYPE III BARRICADE
9

R11-2
48" x 30"
ROAD CLOSED
DETOUR
M4-10R
48" x 18"
TYPE III BARRICADE
10

DETOUR
M4-8
24"x12"
M6-1
21"x15"
1

ROBERTA WOODS COURT
48" x 24"
DETOUR
M4-8
24" x 12"
M6-1
21" x 15"
2

DETOUR
M4-8
24"x12"
M6-1
21"x15"
3

ROBERTA WOODS COURT
48" x 24"
DETOUR
M4-8
24" x 12"
M6-1
21" x 15"
4

END DETOUR
M4-8 A
24" X 18"
5

ROAD CLOSED
W20-3
48" X 48"
R3-2
24" X 24"
6

ROAD CLOSED
W20-3
48" X 48"
R3-1
24" X 24"
7

APPROVED: _____ DATE: _____

SEAL

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

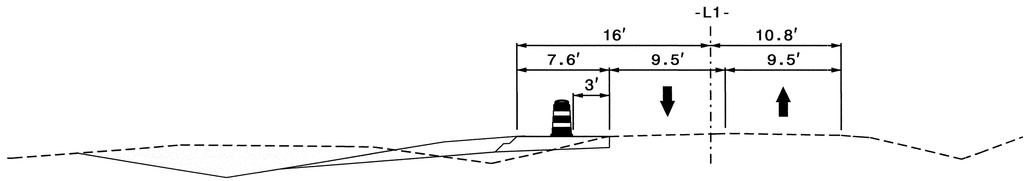
1/9/13

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

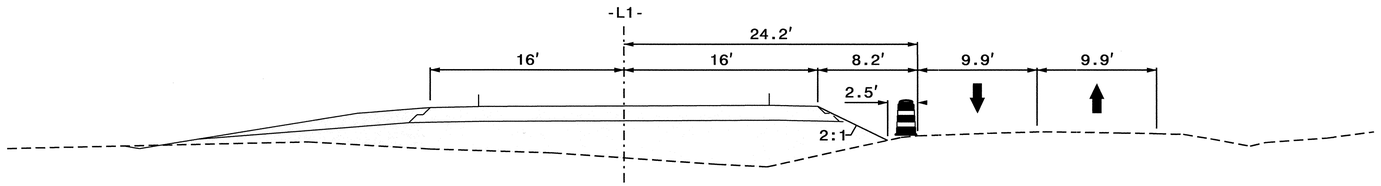
DETOUR -
ROBERTA WOODS COURT

07-JAN-2013 08:01
\\dot\dfsroot01\proj\TIPProjects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-3L_detour.dgn
dklein AT TE26001

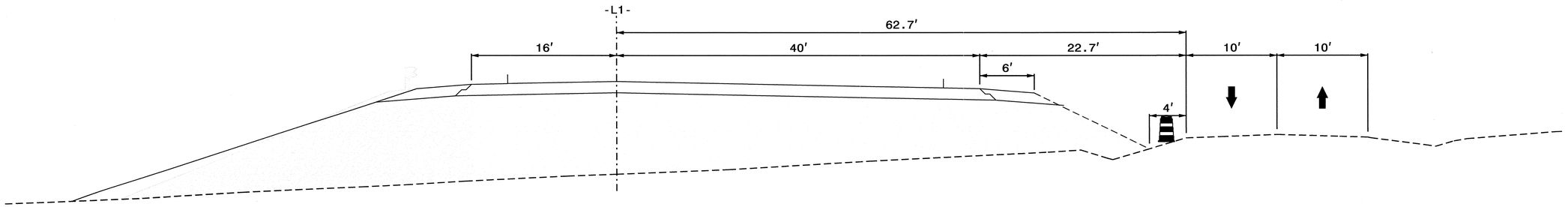
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-32



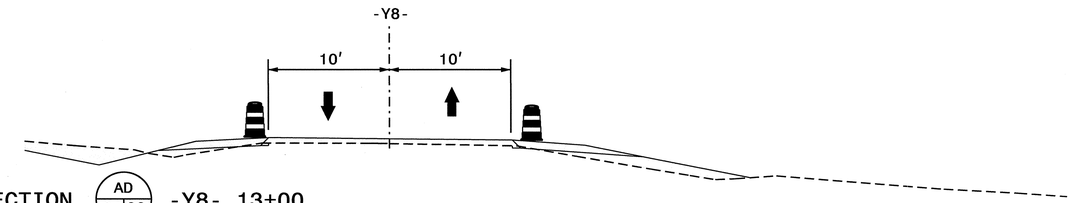
SECTION AA 04 32 -L1- 13+00



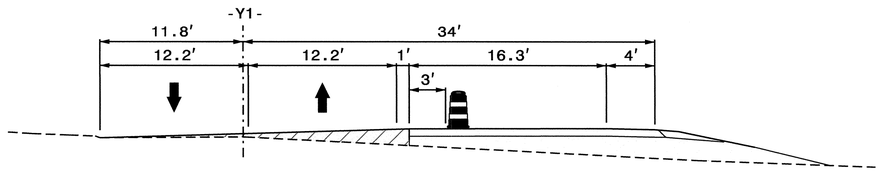
SECTION AB 04 32 -L1- 15+00



SECTION AC 04 32 -L1- 20+00



SECTION AD 04 32 -Y8- 13+00



SECTION AE 05 32 -Y1- 14+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

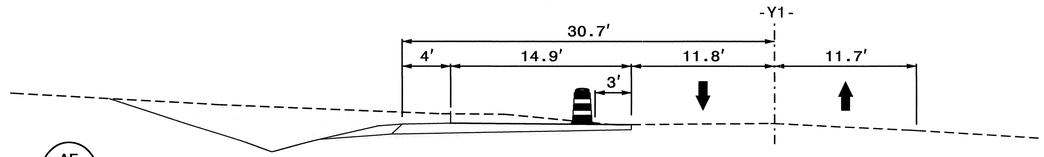
12/20/12

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

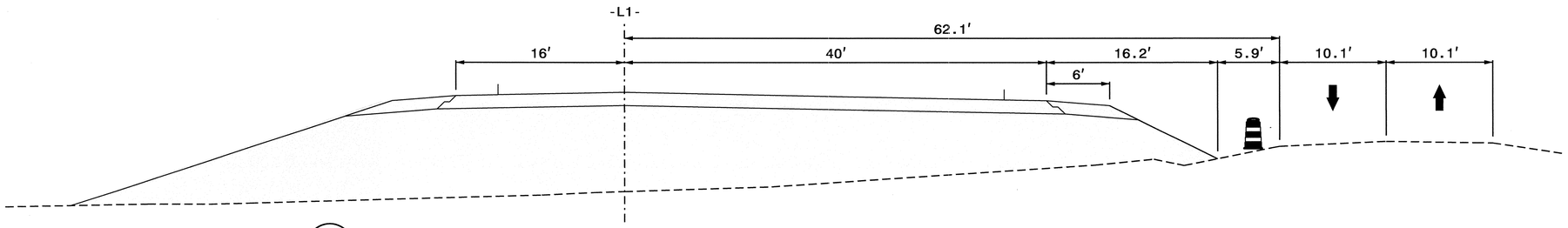
PHASE I
SECTIONS AA - AE

20-DEC-2012 15:09
\\dot\dfsroot0\proj\TIPProjects-RR2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-32_PISECTION.dgn
jwoollard AT TE266005

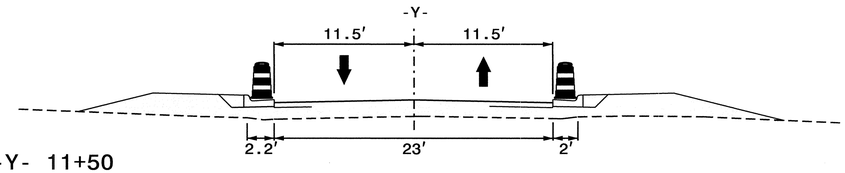
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-33



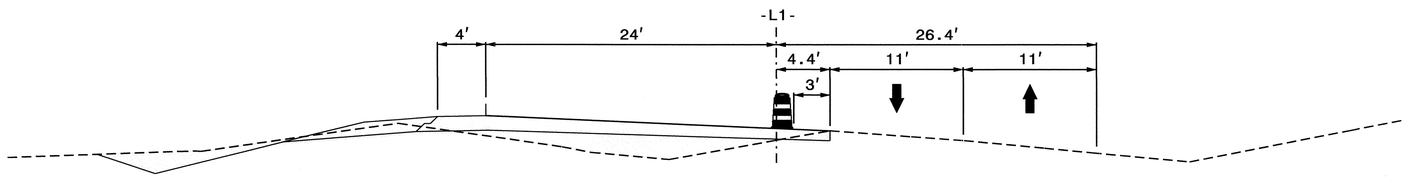
SECTION AF 05 33 -Y1- 19+00



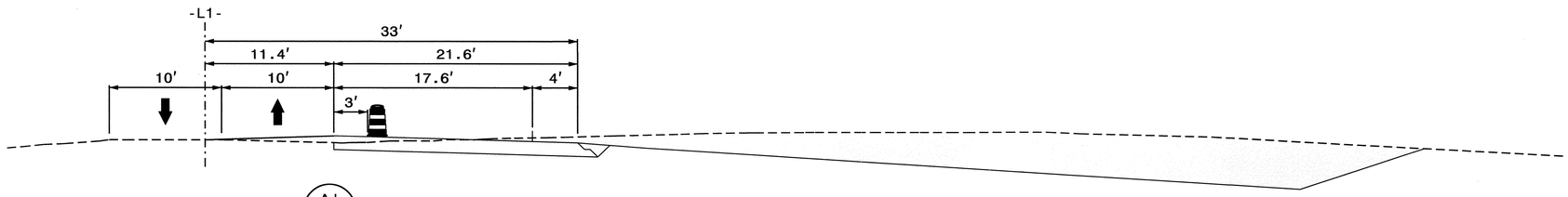
SECTION AG 05 33 -L1- 21+00



SECTION AH 06 33 -Y- 11+50



SECTION AI 06 33 -L1- 40+50



SECTION AJ 06 33 -L1- 44+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

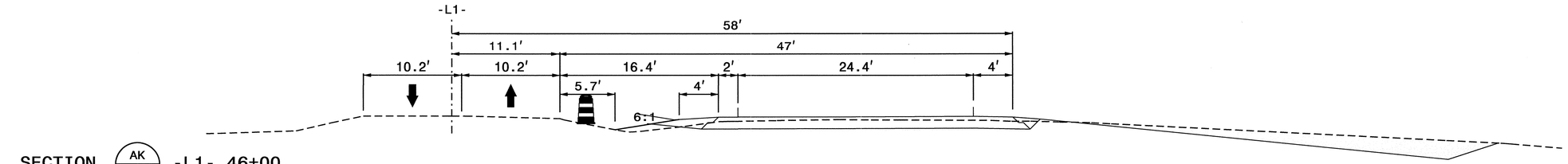
12/20/12

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

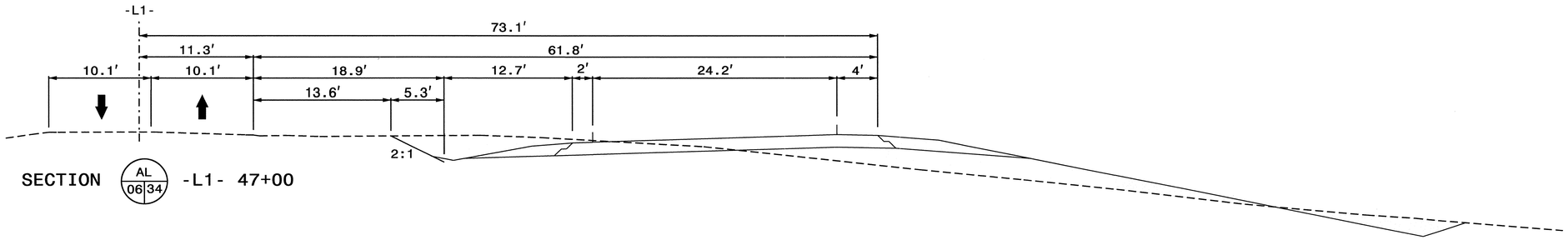
PHASE I
SECTIONS AF - AJ

20-DEC-2012 15:08
\\dot\dfsroot\proj\TIPProjects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-33_PISECTION.dgn
jwoolard AT TE266005

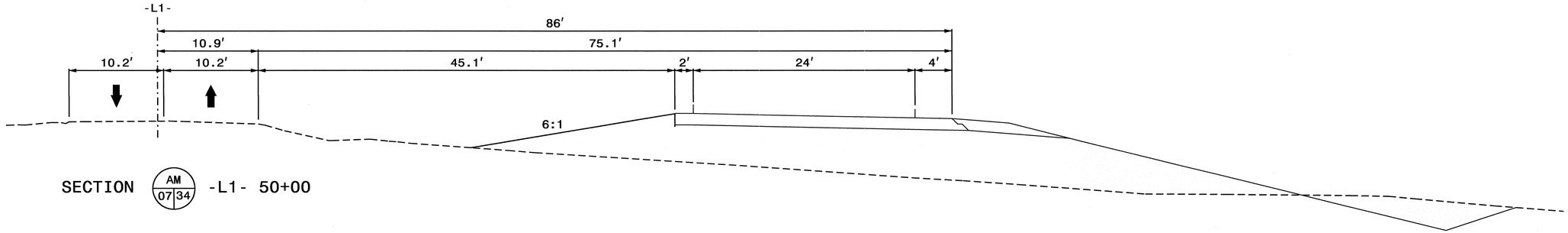
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-34



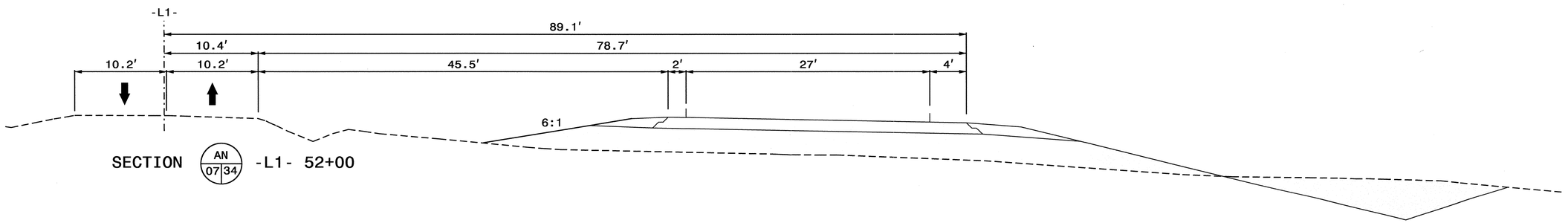
SECTION AK 06|34 -L1- 46+00



SECTION AL 06|34 -L1- 47+00



SECTION AM 07|34 -L1- 50+00



SECTION AN 07|34 -L1- 52+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED:_____ DATE:_____

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER W. WOOLARD JR.

12/20/12

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

PHASE I
SECTIONS AK - AN

20-DEC-2012 15:07
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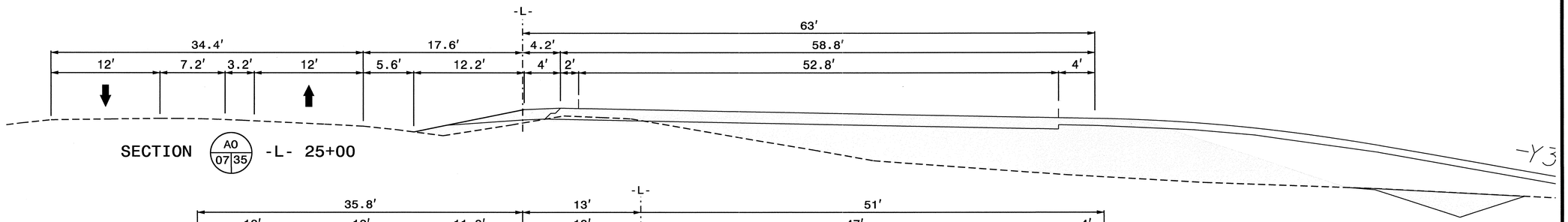
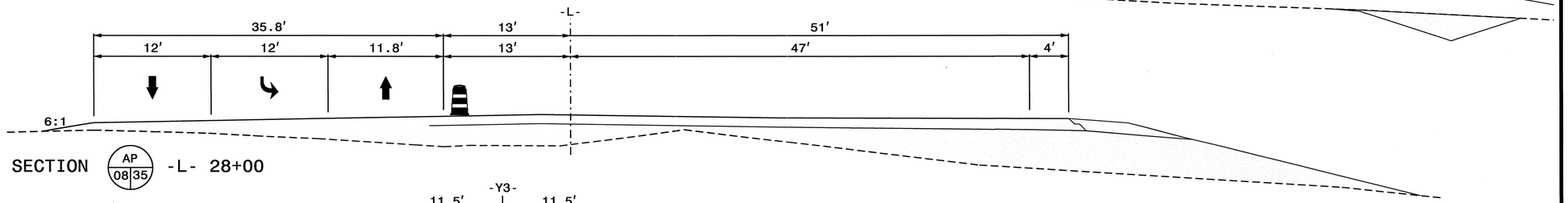
jwoolard AT TE266005

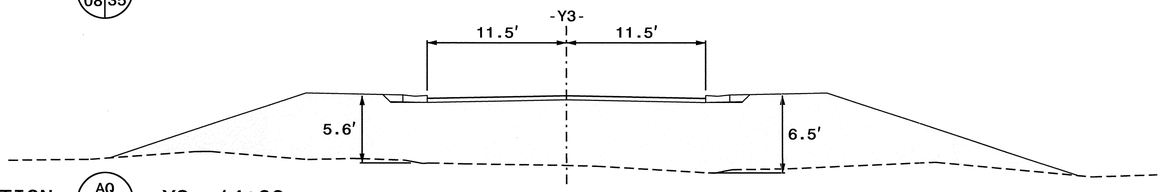
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-35



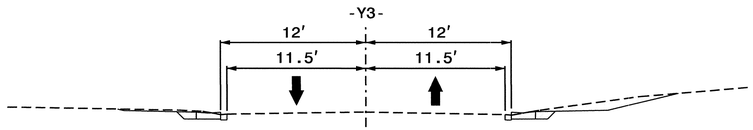
SECTION AO 07|35 -L- 25+00



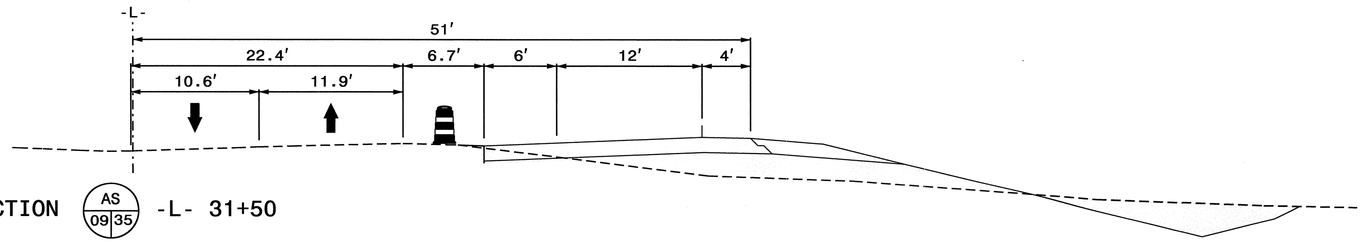
SECTION AP 08|35 -L- 28+00



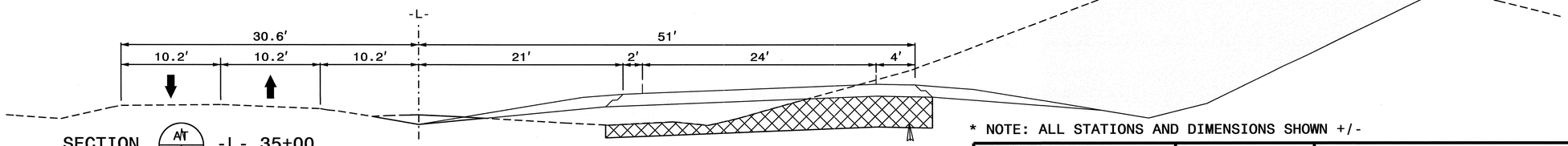
SECTION AQ 08|35 -Y3- 14+00



SECTION AR 08|35 -Y6- 11+25



SECTION AS 09|35 -L- 31+50



SECTION AT 09|35 -L- 35+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: DATE: 12/20/12

SEAL

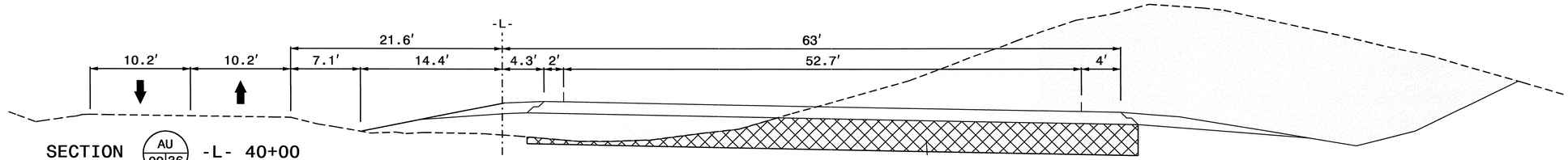
NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR.

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

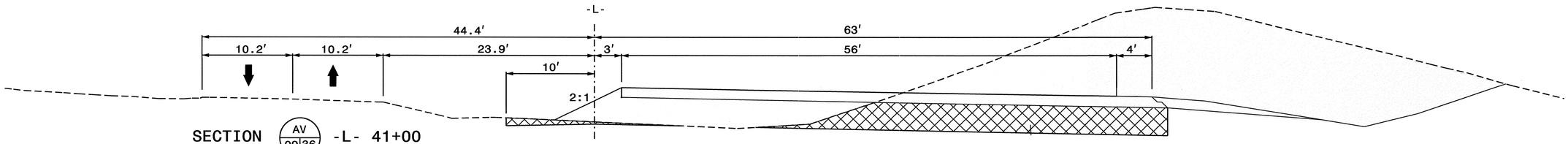
PHASE I
SECTIONS AO - AT

20-DEC-2012 15:07
\\dot\dfsroot0\proj\TIPProjects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-35_PISECTION.dgn
woolard AT TE26605

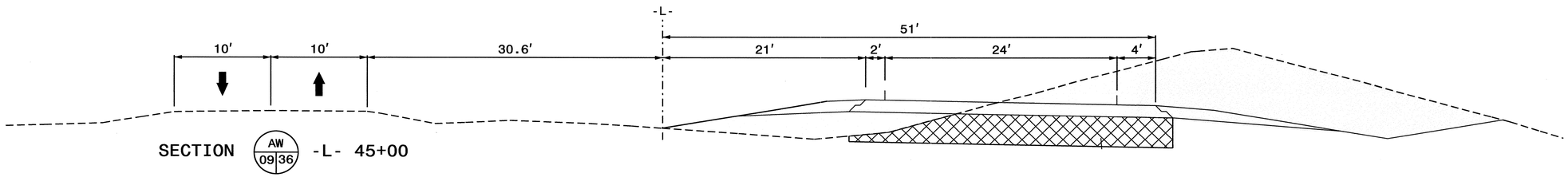
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-36



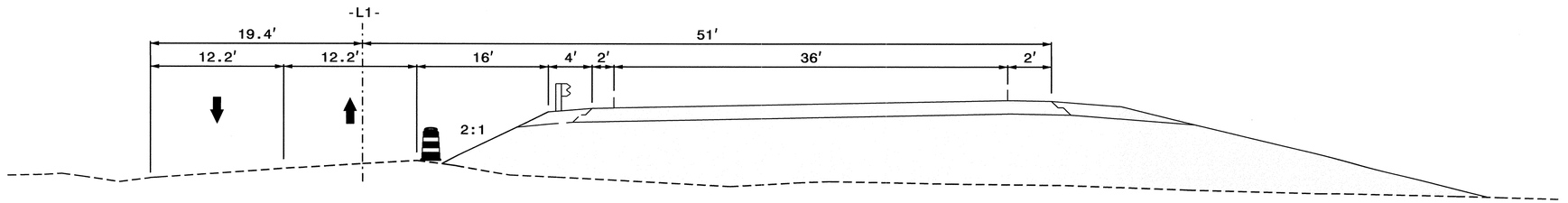
SECTION AU 09 36 -L- 40+00



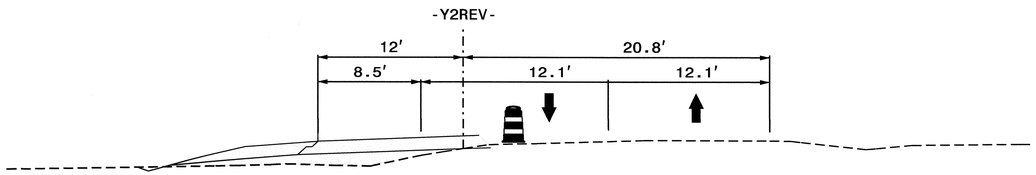
SECTION AV 09 36 -L- 41+00



SECTION AW 09 36 -L- 45+00



SECTION AX 10 36 -L- 58+00



SECTION AY 11 36 -Y2REV- 15+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

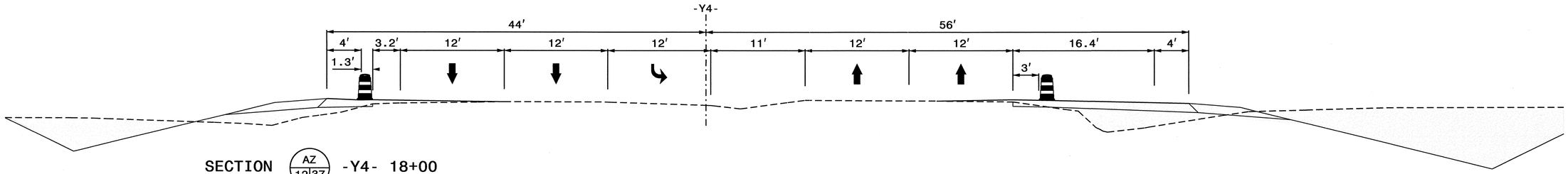
NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD JR. 12/20/12

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

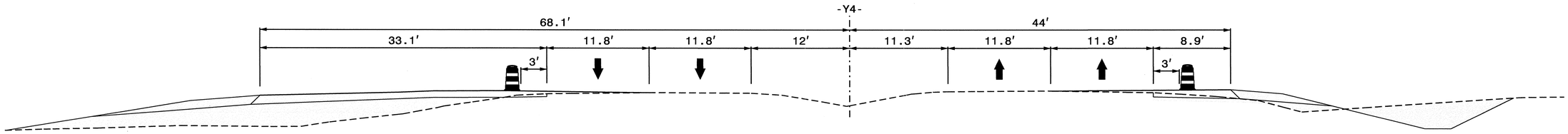
PHASE I
SECTIONS AU - AY

20-DEC-2012 15:55
\\dot1\dfsroot01\pro\TIPProjects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-36_PI SECTION.dgn
dsklein AT TE26600

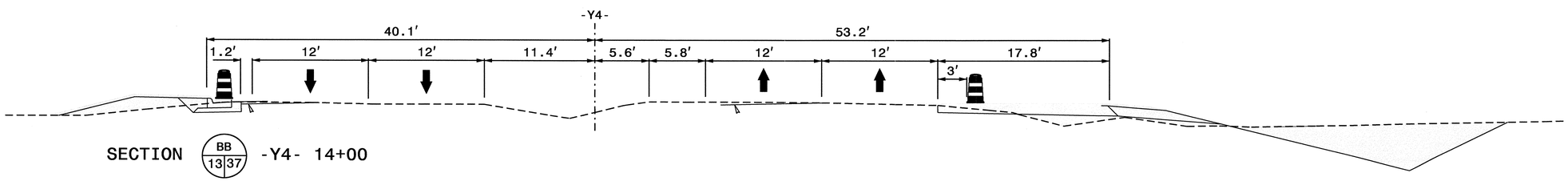
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-37



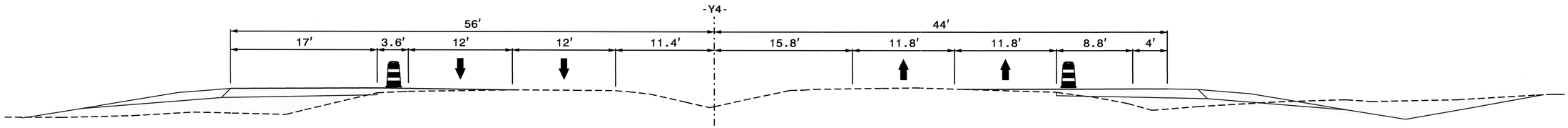
SECTION AZ 12 37 -Y4- 18+00



SECTION BA 12 37 -Y4- 26+00



SECTION BB 13 37 -Y4- 14+00



SECTION BC 13 37 -Y4- 30+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

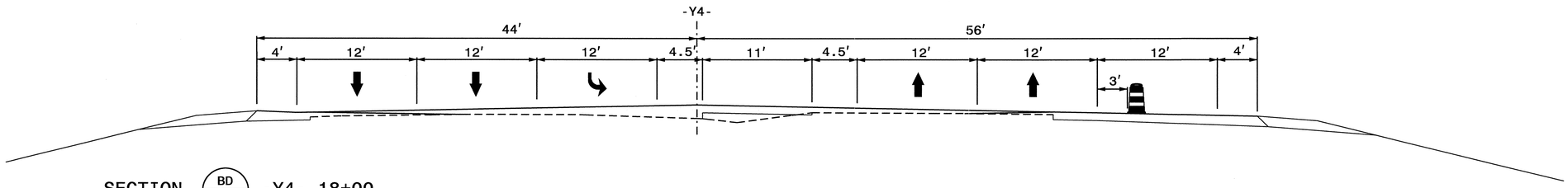
12/20/12

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

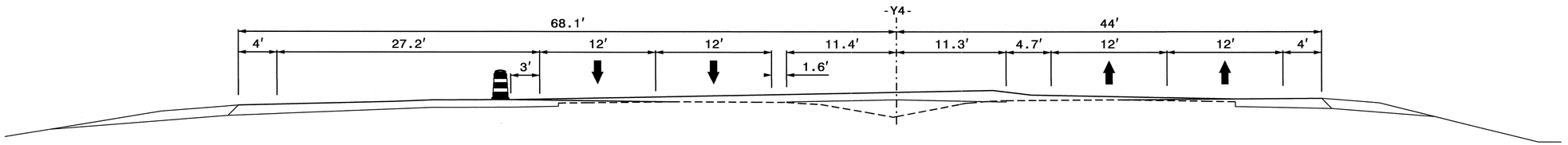
PHASE I
SECTIONS AZ - BC

20-DEC-2012 15:05
\\dot\dfsr00t01\proj\TIPProjects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-37_PISECTION.dgn
jwoolard AT TE266005

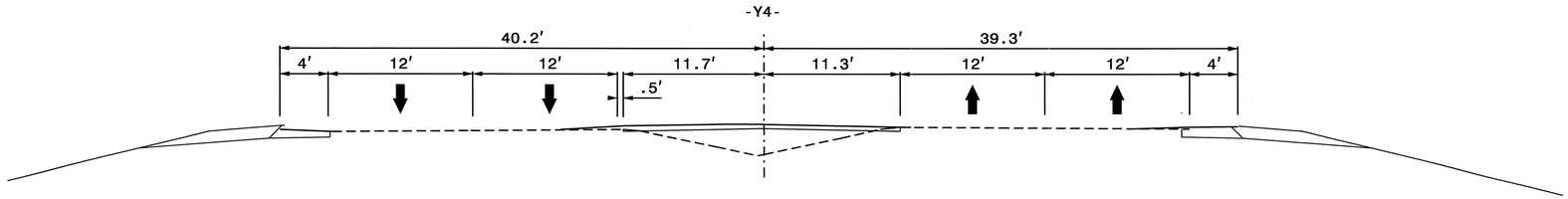
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-38



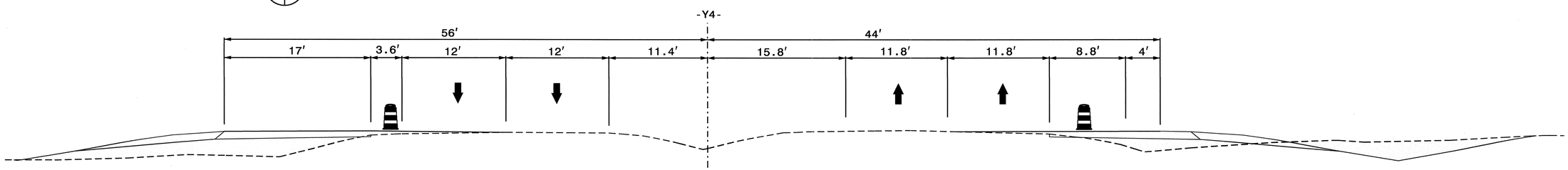
SECTION BD 14 38 -Y4- 18+00



SECTION BE 14 38 -Y4- 26+00



SECTION BF 15 38 -Y4- 8+00



SECTION BG 15 38 -Y4- 30+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

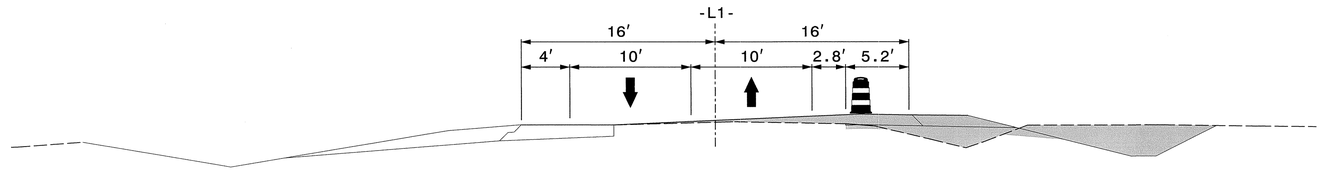
12/20/12

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

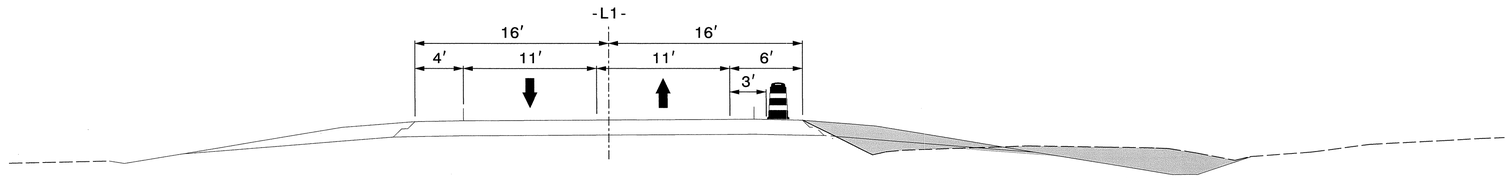
PHASE I
SECTIONS BD - BG

20-DEC-2012 15:04
\\dot\dfsroot\proj\IPProjects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-38_P1SECTION.dgn
\woolard AT TE26605

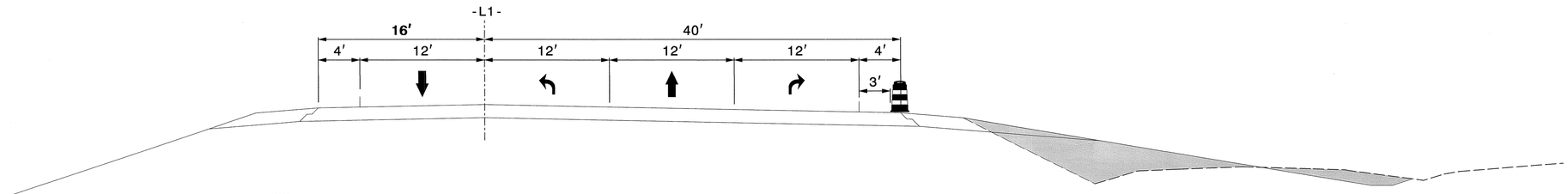
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-39



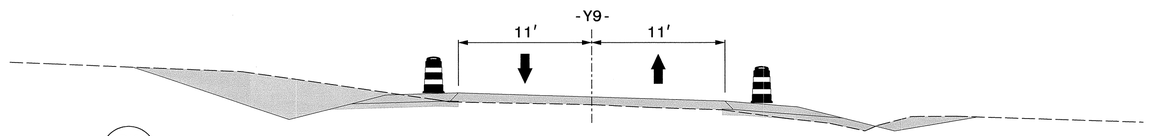
SECTION BH 16 39 -L1- 13+00



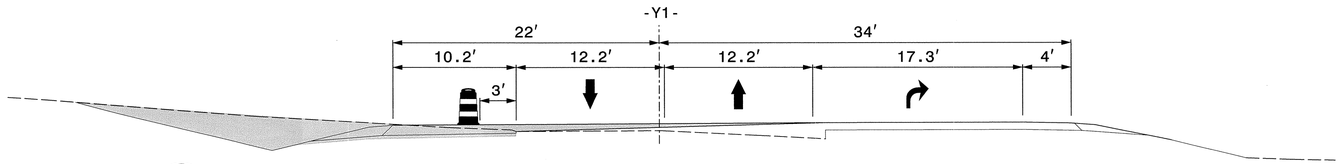
SECTION BI 16 39 -L1- 15+00



SECTION BJ 16 39 -L1- 20+00



SECTION BK 16 39 -Y9- 11+00



SECTION BL 17 39 -Y1- 14+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: DATE:

SEAL

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

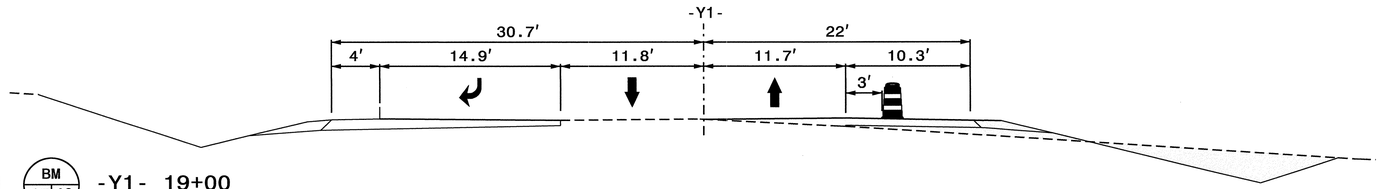
12/20/12

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

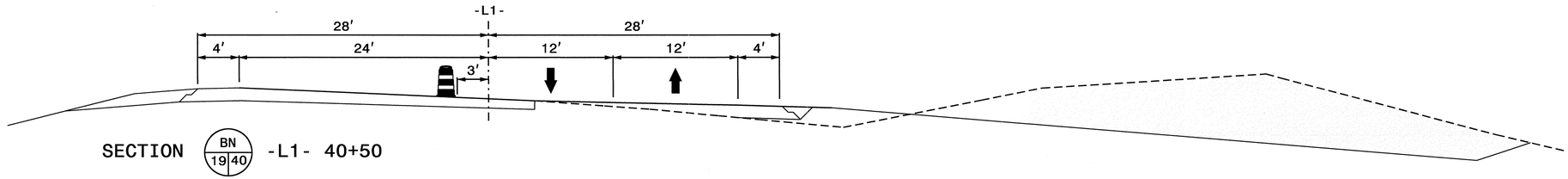
PHASE II
SECTIONS BH - BL

12/20/2012
J:\TIP\Projects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-39_P2 SECTION.dgn
User:jwoolard

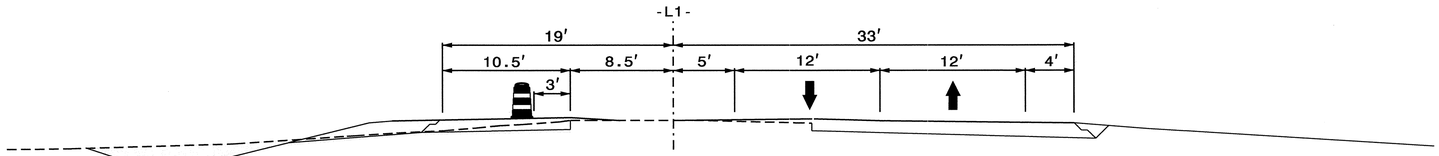
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-40



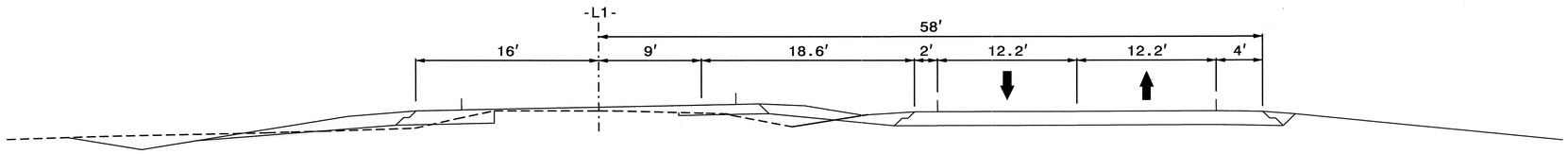
SECTION BM 17 40 -Y1- 19+00



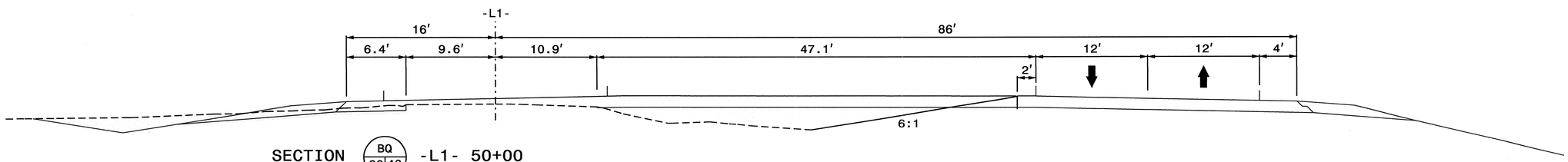
SECTION BN 19 40 -L1- 40+50



SECTION BO 19 40 -L1- 44+00



SECTION BP 19 40 -L1- 46+00



SECTION BQ 20 40 -L1- 50+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

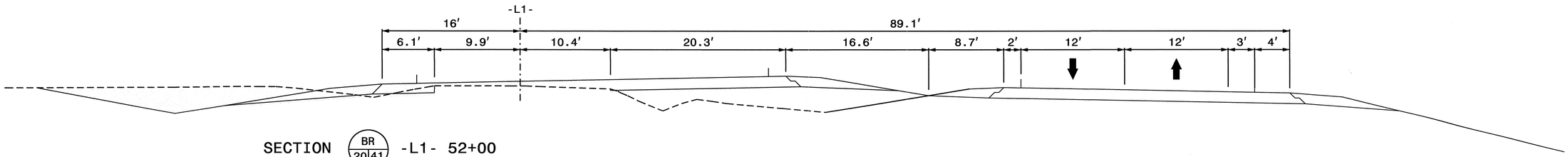
12/20/12

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

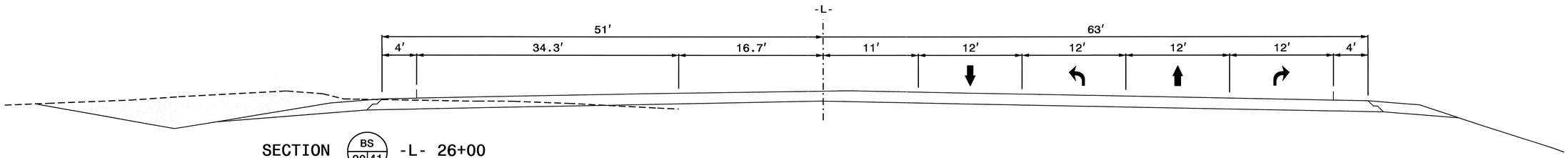
PHASE II
SECTIONS BM - BQ

20-DEC-2012 15:02
\\dot\dfsroot0\proj\TIPProjects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-40_P2 SECTION.dgn
jwoolard AT TE26605

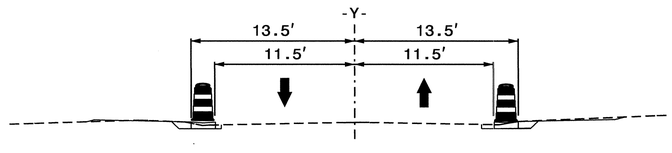
PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-41



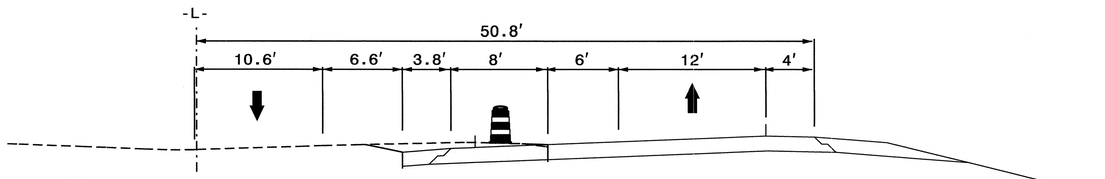
SECTION BR 20 41 -L1- 52+00



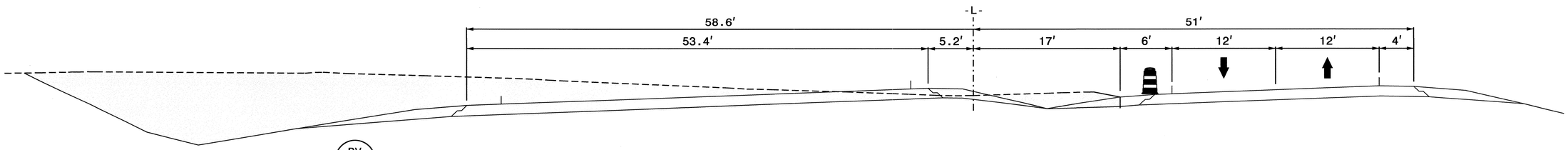
SECTION BS 20 41 -L- 26+00



SECTION BT 20 41 -Y3- 11+50



SECTION BU 21 41 -L- 31+50



SECTION BV 21 41 -L- 31+50

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

12/20/12

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

PHASE II
SECTIONS BR - BV

20-DEC-2012 15:01
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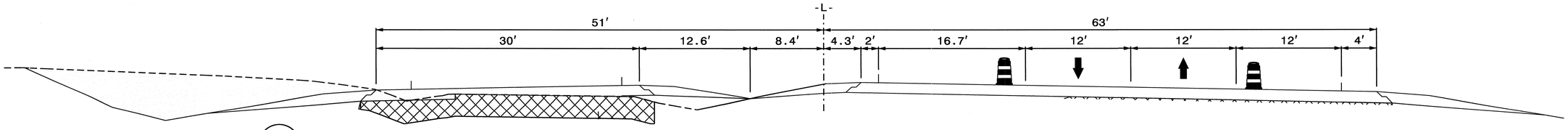
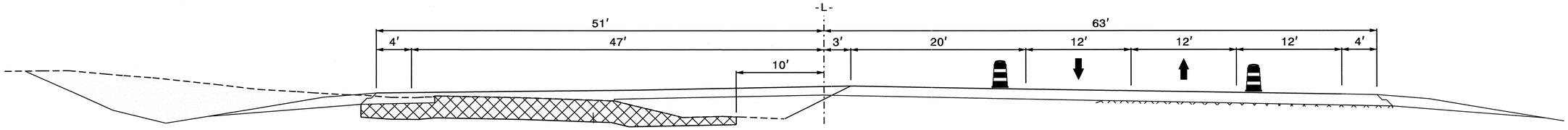
jwoolard AT TE26605

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-42



SECTION BW 21 42 -L- 40+00



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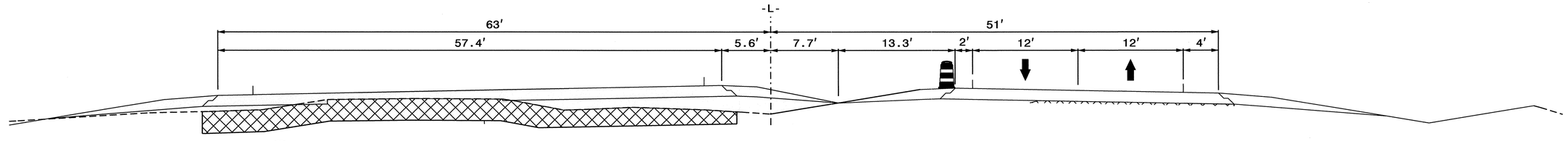

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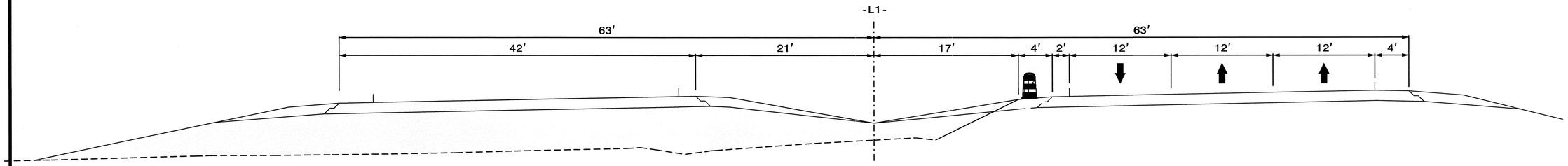

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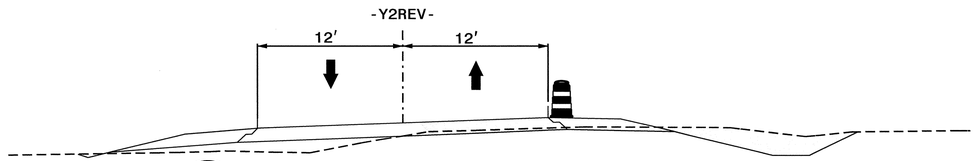

SECTION CA 23 42 -Y2REV- 15+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

12/20/12

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

PHASE II
SECTIONS BW - CA

20-DEC-2012 15:55
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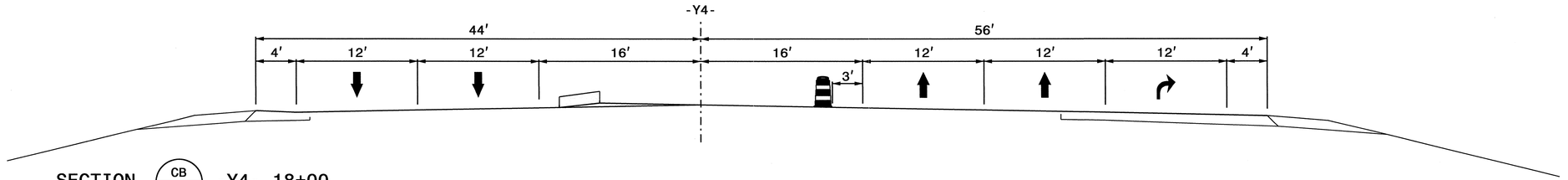
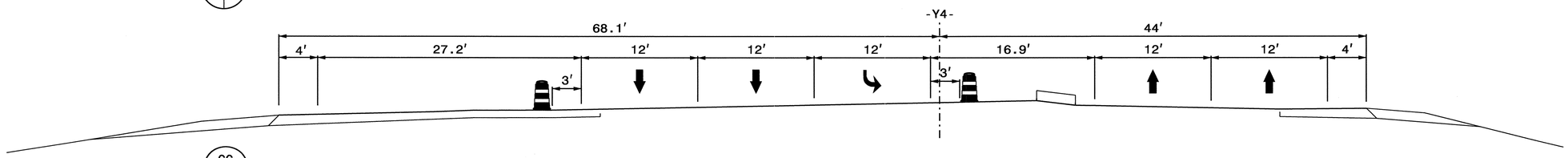
ddklein AT TE26600I

PROJ. REFERENCE NO.	SHEET NO.
R-2246B	TMP-43



SECTION CB 24 43 -Y4- 18+00



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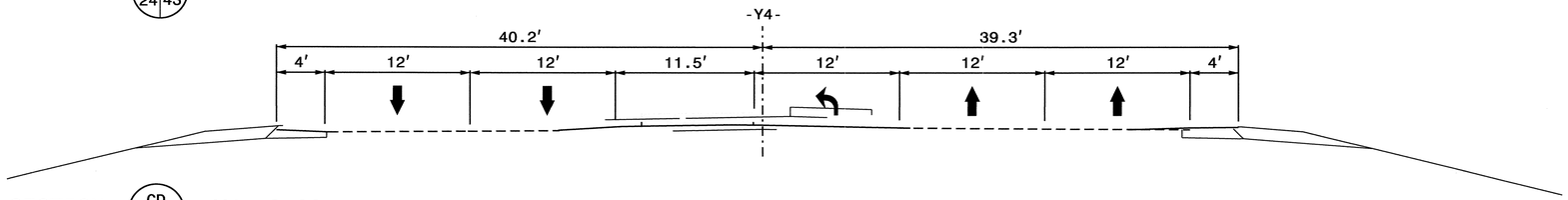

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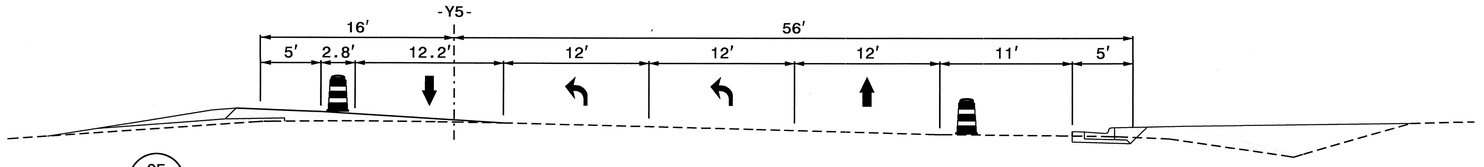

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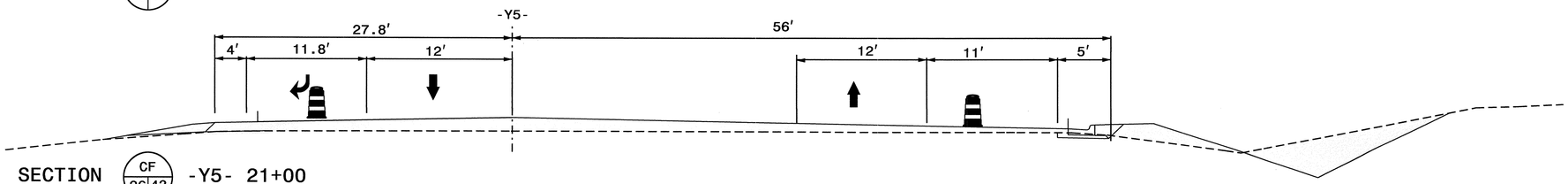
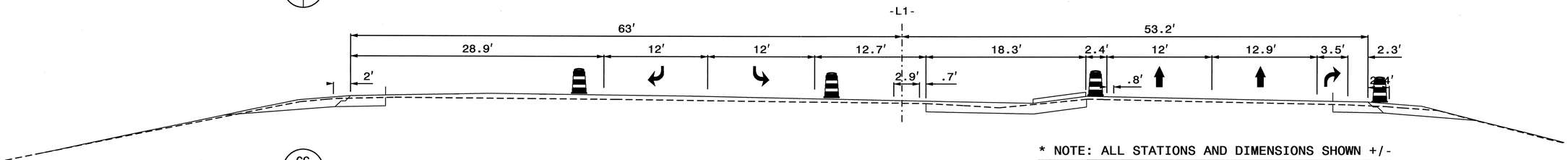


SECTION CF 26 43 -Y5- 21+00



SECTION CG 26 43 -L- 150+00

* NOTE: ALL STATIONS AND DIMENSIONS SHOWN +/-

APPROVED: _____ DATE: _____

SEAL

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

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PHASE II
SECTIONS CB - CG

20-DEC-2012 14:45
\\dot\dfsroot\Dlypro\TIPProjects-R\R2246b\Traffic\TrafficControl\tcp\R2246B_TC_TMP_TMP-43_P2 SECTION.dgn
woolard
AT TE266005