TIP: R-0609IA

CONTRACT: C201275

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$$$$USERNAME$$$$

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GUILFORD COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-0609IA	1	

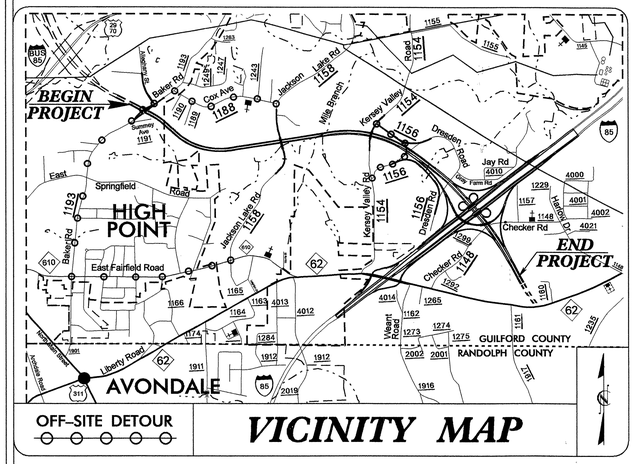
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
34345.1.1	MAF-F-119-1(1)	PE
34345.2.7	STP-NHF-119-1(11)	ROW & UTILITIES
34345.3.15	STP-NHF-119-1(15)	CONSTRUCTION

METRIC

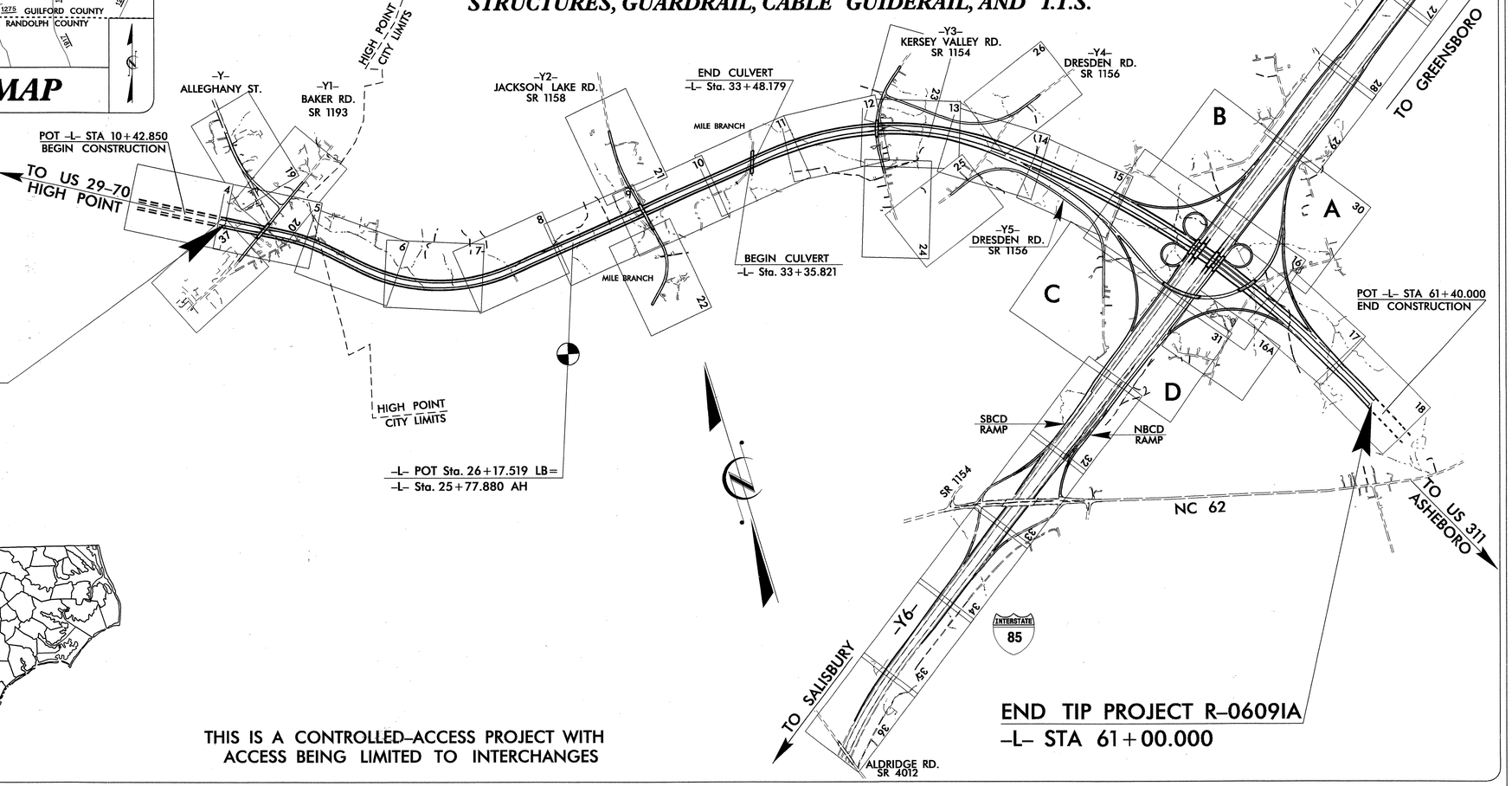
ALL DIMENSIONS IN THESE PLANS ARE IN METERS

LOCATION: ***US 311 HIGH POINT EAST BELTWAY FROM US 29-70 TO I-85 NORTH OF ARCHDALE***

TYPE OF WORK: ***GRADING, DRAINAGE, PAVING, SIGNING, SIGNALS, FENCING, CULVERTS, STRUCTURES, GUARDRAIL, CABLE GUIDERAIL, AND I.T.S.***

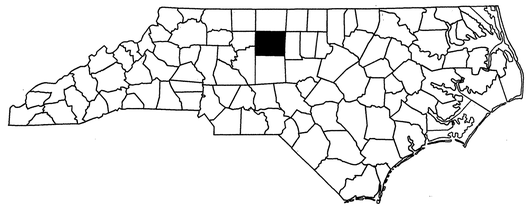


VICINITY MAP



BEGIN TIP PROJECT R-0609IA
-L- STA 11+98.805

END TIP PROJECT R-0609IA
-L- STA 61+00.000



THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES

PART 2 OF 3

R-0609 IA

TIP PROJECT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

STATE PROJECT REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-1

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

GUILFORD COUNTY

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JANUARY 2002 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1135.01	CONES
1150.01	FLAGGERS
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1170.01	PORTABLE CONCRETE BARRIER
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
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
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.
- WORK AREA
- REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

- TYPE III BARRICADE
- CONE
- DRUM
- FLASHING ARROW PANEL (TYPE C)
- STATIONARY SIGN
- PORTABLE SIGN
- STATIONARY OR PORTABLE SIGN
- CRASH CUSHION
- CHANGEABLE MESSAGE SIGN
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- POLICE
- FLAGGER

PAVEMENT MARKINGS

- CRYSTAL/CRYSTAL PAVEMENT MARKER
- YELLOW/YELLOW PAVEMENT MARKER
- CRYSTAL/RED PAVEMENT MARKER
- PAVEMENT MARKING SYMBOLS

APPROVED: J. W. Woolard
DATE: 5/11/06

SEAL

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

PLAN PREPARED BY: N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION UNIT

J. S. BOURNE, PE — TRAFFIC CONTROL ENGINEER
G. L. GETTIER, PE — TRAFFIC CONTROL PROJECT ENGINEER
J. W. WOOLARD, PE — TRAFFIC CONTROL PROJECT DESIGN ENGINEER
C. S. MOZINGO — TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

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METRIC

GENERAL NOTES

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

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
BAKER RD (-Y1-)	MONDAY - FRIDAY 7:00 A.M. - 9:00 A.M.

MAINTAIN A MINIMUM OF TWO (2) OPEN LANES DURING THE FOLLOWING TIMES:

ROAD NAME	DAY AND TIME RESTRICTIONS
I-85 NB & SB	MONDAY - THURSDAY 6:00 A.M. - 8:00 P.M. FRIDAY 6;00 A.M. TO SATURDAY 11:00 P.M. SUNDAY 9:00 A.M. TO MONDAY 6:00 A.M.

B) KEEP A MINIMUM OF 2 LANES OPEN IN EACH DIRECTION DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

I-85 NB & SB

HOLIDAY

1) FOR ANY EVENT 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 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A SATURDAY OR A SUNDAY, THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.

3) FOR EASTER, BETWEEN THE HOURS OF 8:00 P.M. THURSDAY AND 6:00 A.M. MONDAY.

4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.

5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A SATURDAY OR SUNDAY, THEN BETWEEN THE HOURS OF 6:00 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 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.

7) FOR THANKSGIVING, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.

8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF CHRISTMAS.

9) FOR THE SEMI-ANNUAL EVENT AT THE FURNITURE MARKET IN HIGH POINT, BETWEEN THE HOURS OF 6:00 A.M. THE MONDAY OF THE WEEK PRIOR TO THE EVENT TO 8:00 P.M. THE FRIDAY OF THE WEEK FOLLOWING THE EVENT.

C) DO NOT STOP TRAFFIC FOR MORE THAN 30 MINUTES BETWEEN THE HOURS OF 12 MIDNIGHT TO 6:00 AM AS FOLLOWS:

ROAD NAME	OPERATION
I-85 NB & SB	INSTALLING FLYOVER BRIDGE GIRDERS

D) 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

E) 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.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 FT (12m) 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.

G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT (1.5m) 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 (3m) 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.

H) 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.

I) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.

J) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT (5m) OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.

K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON I-85.

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

PAVEMENT EDGE DROP OFF REQUIREMENTS

M) 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 (50mm) ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES (75mm) 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.

N) DO NOT EXCEED A DIFFERENCE OF 1.5 inches (40mm) IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT (150m) IN ADVANCE AND A MINIMUM OF ONCE EVERY MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

P) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT (31m) FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE DEPARTMENT.

Q) PROVIDE FOR PERMANENT SIGNING.

R) PROVIDE FOR DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.

S) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.

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

U) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) 500 FT (150m) IN ADVANCE OF THE UNEVEN AREA.

V) INSTALL BLACK ON ORANGE "BUMP" SIGNS (W8-1) 500 FT (150m) IN ADVANCE OF THE UNEVEN AREA.

TRAFFIC BARRIER

W) INSTALL MOVABLE/PORTABLE CONCRETE BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE MOVABLE/PORTABLE CONCRETE 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.

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

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.

OFFSET THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER A MINIMUM OF 40 FT (12m) FROM ONCOMING TRAFFIC OR PROTECT AT ALL TIMES BY A TEMPORARY CRASH CUSHION.

INSTALL MOVABLE/PORTABLE CONCRETE BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE MOVABLE/PORTABLE CONCRETE BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS EQUAL IN METER to 2/3rds THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP CLOSED THE SECTION OF THE ROADWAY UNTIL THE BARRIER CAN BE PLACED OR AFTER BARRIER IS REMOVED.

PAVEMENT MARKINGS AND MARKERS

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

	ROAD NAME	MARKINGS	MARKERS
1)	-L-, -Y6-(I-85) & CD's	POLYUREA	SNOWPLOWABLE
2)	ALL Y-LINES	THERMOPLASTIC	PERMANENT RAISED
3)	NC 62	THERMOPLASTIC	PERMANENT RAISED

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

	ROAD NAME	MARKINGS	MARKERS
1)	ALL ALIGNMENTS	PAINT	TEMPORARY RAISED

AA) PLACE AT LEAST TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE ON NEW ASPHALT PAVEMENT. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

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

CC) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.

DD) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

EE) WHEN USING ROADWAY STANDARD NO. 1101.02, DRUMS MAY BE USED IN LIEU OF CONES ON -Y-, -Y1-, -Y3-, -Y4-, -Y5-, -DET-, -DET2- AND -DET3-.

FF) SPACE CHANNELIZING DEVICES IN WORK AREAS EQUAL IN METERS TO 2/3 rds THE POSTED SPEED LIMIT (MPH), EXCEPT 3m ON-CENTER IN RADII, AND 1m OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.

GG) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.

HH) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT (150m) CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

APPROVED: J.W. Woolard DATE: 2/9/07

SEAL

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

PROJECT NOTES

SCALE:	NONE
DATE:	2006 JULY 10
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

ITS AND OVERHEAD SIGN INSTALLATION NOTES

A) THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF TWO (2) OPEN LANES DURING THE FOLLOWING TIMES:

ROAD NAME	DAY AND TIME RESTRICTIONS
1) US 311 (BOTH DIRECTIONS)	MONDAY THRU THURSDAY 6:00 A.M. TO 8:00 P.M.
2) I-85 NB & SB	FRIDAY 6:00 A.M. TO SATURDAY 11:00 P.M.
3) US 29-70/BUS I-85 (BOTH DIRECTIONS)	SUNDAY 9:00 A.M. TO MONDAY 6:00 A.M.

DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
1) NC 68 (BOTH DIRECTIONS)	MONDAY THRU THURSDAY 6:00 A.M. TO 8:00 P.M. FRIDAY 6:00 A.M. TO SATURDAY 11:00 P.M. SUNDAY 9:00 A.M. TO MONDAY 6:00 A.M.

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

ROAD NAME

1) US 311 (BOTH DIRECTIONS)
2) NC 68 (BOTH DIRECTIONS)
3) I-85 NB & SB
4) US 29-70/BUS I-85 (BOTH DIRECTIONS)

HOLIDAY

1) FOR ANY EVENT 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 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A SATURDAY OR A SUNDAY, THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
3) FOR EASTER, BETWEEN THE HOURS OF 8:00 P.M. THURSDAY AND 6:00 A.M. MONDAY.
4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

   IF INDEPENDENCE DAY IS ON A SATURDAY OR SUNDAY, THEN BETWEEN THE HOURS OF 6:00 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 6:00 A.M. FRIDAY TO 8:00 P.M. TUESDAY.
7) FOR THANKSGIVING, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 8:00 P.M. MONDAY.
8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF CHRISTMAS.
9) FOR THE SEMI-ANNUAL EVENT AT THE FURNITURE MARKET IN HIGH POINT, BETWEEN THE HOURS OF 6:00 A.M. THE MONDAY OF THE WEEK BEFORE THE EVENT TO 8:00 P.M. THE FRIDAY OF THE WEEK FOLLOWING THE EVENT.

C) DO NOT STOP TRAFFIC FOR MORE THAN 30 MINUTES BETWEEN THE HOURS OF 12 MIDNIGHT TO 6:00 AM AS FOLLOWS:

ROAD NAME	OPERATION
1) I-85 NB & SB	INSTALLING OVERHEAD SIGN STRUCTURES
2) US 311 (BOTH DIRECTIONS)	INSTALLING OVERHEAD SIGN STRUCTURES
3) US 29 / 70 / BUS I-85 (BOTH DIRECTIONS)	INSTALLING OVERHEAD SIGN STRUCTURES

ITS AND OVERHEAD SIGNING INSTALLATION PHASING

NOTE: COMPLETE THE WORK OF STEPS 1 THROUGH 4 BY APRIL 30, 2008. (SEE SPECIAL PROVISIONS)

STEP 1: USING ROADWAY STANDARD DRAWING 1101.02 SHEETS 3 OR 5 OF 7, INSTALL TRAFFIC CONTROL DEVICES.

STEP 2: INSTALL PROPOSED DMS SIGNS AND STRUCTURES ON I-85 AS SHOWN IN THE SIGNING PLANS.

OR

PERFORM FIBER OPTIC CABLE INSTALLATION AND CCTV INSTALLATION / INTEGRATION ON EXISTING US 311 UP TO AND INCLUDING THE US 29/BUS I-85 INTERCHANGE AS SHOWN IN THE ITS PLANS.

STEP 3: REMOVE TRAFFIC CONTROL DEVICES AND RE-OPEN ALL LANES TO TRAFFIC.

STEP 4: REPEAT STEPS 1-3 UNTIL ALL THE WORK LISTED IN STEP 2 IS COMPLETED.

STEP 5: USING ROADWAY STANDARD DRAWING 1101.02 SHEETS 3 OR 5 OF 7, INSTALL TRAFFIC CONTROL DEVICES.

STEP 6: INSTALL FIBER OPTIC CABLE ON PROPOSED NC 68 AS SHOWN IN THE ITS PLANS.

OR

INSTALL FIBER OPTIC CABLE AND CCTV INSTALLATION / INTEGRATION ON PROPOSED US 311 (R-609IA PROJECT LIMITS) AS SHOWN IN THE ITS PLANS.

OR

INSTALL PROPOSED CANTILEVER GUIDE SIGNS AND STRUCTURES AS SHOWN IN THE SIGNING PLANS.

OR

INSTALL SIGN OVERLAYS AS SHOWN IN THE SIGNING PLANS.

OR

INSTALL PROPOSED OVERHEAD SIGNS AND STRUCTURES AS SHOWN IN THE SIGNING PLANS.

STEP 7: REMOVE TRAFFIC CONTROL DEVICES AND RE-OPEN ALL LANES TO TRAFFIC.

STEP 8: REPEAT STEPS 5-7 UNTIL ALL OF THE WORK LISTED IN STEP 6 IS COMPLETED.

NOTE: THE PHASING AND NOTES SHOWN ON THIS SHEET APPLY ONLY TO THE WORK OF INSTALLING FIBER OPTIC CABLE, CCTV, OVERHEAD SIGNS, OVERHEAD STRUCTURES & OVERHEAD SIGN OVERLAYS

APPROVED: J.W. Woolard DATE: 2/8/07

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

ITS AND OVERHEAD SIGN INSTALLATION

SCALE:	NONE
DATE:	SEP. 29, 2006
DWG. BY:	JWW
DESIGN BY:	JWW
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

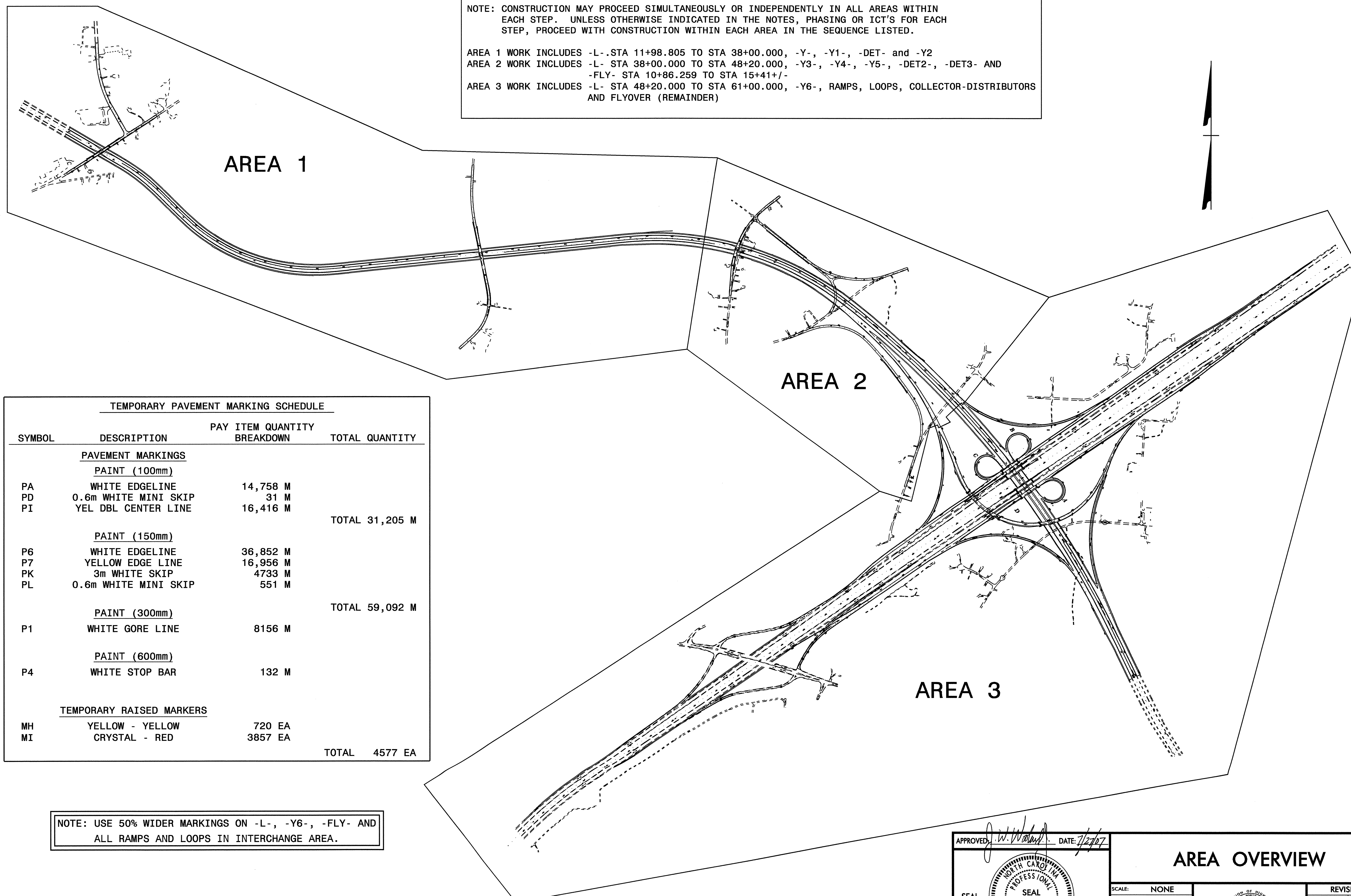
PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-3

METRIC

THIS PROJECT IS PHASED INTO AREAS.

NOTE: CONSTRUCTION MAY PROCEED SIMULTANEOUSLY OR INDEPENDENTLY IN ALL AREAS WITHIN EACH STEP. UNLESS OTHERWISE INDICATED IN THE NOTES, PHASING OR ICT'S FOR EACH STEP, PROCEED WITH CONSTRUCTION WITHIN EACH AREA IN THE SEQUENCE LISTED.

AREA 1 WORK INCLUDES -L-.STA 11+98.805 TO STA 38+00.000, -Y-, -Y1-, -DET- and -Y2
AREA 2 WORK INCLUDES -L- STA 38+00.000 TO STA 48+20.000, -Y3-, -Y4-, -Y5-, -DET2-, -DET3- AND -FLY- STA 10+86.259 TO STA 15+41+/-
AREA 3 WORK INCLUDES -L- STA 48+20.000 TO STA 61+00.000, -Y6-, RAMPS, LOOPS, COLLECTOR-DISTRIBUTORS AND FLYOVER (REMAINDER)



TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM QUANTITY BREAKDOWN	TOTAL QUANTITY
	PAVEMENT MARKINGS		
	PAINT (100mm)		
PA	WHITE EDGELINE	14,758 M	
PD	0.6m WHITE MINI SKIP	31 M	
PI	YEL DBL CENTER LINE	16,416 M	
			TOTAL 31,205 M
	PAINT (150mm)		
P6	WHITE EDGELINE	36,852 M	
P7	YELLOW EDGE LINE	16,956 M	
PK	3m WHITE SKIP	4733 M	
PL	0.6m WHITE MINI SKIP	551 M	
			TOTAL 59,092 M
	PAINT (300mm)		
P1	WHITE GORE LINE	8156 M	
	PAINT (600mm)		
P4	WHITE STOP BAR	132 M	
	TEMPORARY RAISED MARKERS		
MH	YELLOW - YELLOW	720 EA	
MI	CRYSTAL - RED	3857 EA	
			TOTAL 4577 EA

NOTE: USE 50% WIDER MARKINGS ON -L-, -Y6-, -FLY- AND ALL RAMPS AND LOOPS IN INTERCHANGE AREA.

APPROVED: J. W. Woolard DATE: 7/27/07

SEAL

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

AREA OVERVIEW

SCALE:	NONE
DATE:	2006 JULY 25
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

25-JUL-2006 09:09
\\ets-ccfs03\r0609ia$\traffic\trafficcontrol\tcp\r0609ia_tc_tcp03_area_overview.dgn
csmozingo AT WZTC224097

AREA 1

NOTE: MAINTAIN ACCESS TO ALL DRIVEWAYS THROUGHOUT THE PROJECT FOR THE DURATION OF THE PROJECT

PHASE I

STEP 1: INSTALL ADVANCED WARNING SIGNS IN ACCORDANCE WITH SHEET TCP-61

NOTE: STEPS 2 AND 3 MAY BE PERFORMED CONCURRENTLY.

STEP 2: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7:

--CONSTRUCT TEMPORARY DETOUR (-DET-) FROM -DET- STA 10+00+/- TO STA 11+34+/-. PLACE TYPE III BARRICADES WITH "ROAD CLOSED" (R11-2) SIGNS TO DENY ACCESS TO THE DETOUR FROM BAKER RD. (-Y1-). (SEE CONSTRUCTION PLANS)

-- CONSTRUCT ALLEGHANY ST. (-Y-) FROM STA 13+20+/- TO STA 13+64+/- USING TEMPORARY SLOPES TO TIE INTO THE TEMPORARY DETOUR (-DET-) AS DIRECTED BY THE ENGINEER. (SEE SHEET TCP-5)

STEP 3: AWAY FROM TRAFFIC, PERFORM THE FOLLOWING:

-- CONSTRUCT THE PROPOSED REALIGNMENT OF ALLEGHANY ST. (-Y-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -Y- STA 12+40+/- TO STA 13+20+/-. CONSTRUCT CURB & GUTTER FROM -Y- STA 12+40+/- TO STA 13+20+/-. (SEE CONSTRUCTION PLANS)

-- BEGIN CONSTRUCTION OF TEMPORARY DETOUR (-DET-) INCLUDING THE DRIVEWAY TO PARCEL #92, PLACE TYPE II BARRICADES WITH "ROAD CLOSED" (R11-2) SIGNS TO PREVENT TRAFFIC FROM ACCESSING THE TEMPORARY DETOUR), FROM -DET-STA 11+74+/- TO STA 13+33+/-. (SEE CONSTRUCTION PLANS)

-- BEGIN CONSTRUCTION OF PROPOSED US 311 (-L-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE IN THE FOLLOWING LOCATIONS: (SEE CONSTRUCTION PLANS)

-L- STA 11+99+/- TO STA 12+67+/-
-L- STA 13+75+/- TO STA 27+00+/-

STEP 4: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, TO PERFORM THE FOLLWING:

-- CONSTRUCT THE PROPOSED REALIGNMENT OF ALLEGHANY ST. (-Y-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, INCLUDING THE DRIVEWAY FOR PARCEL #2 (ONLY CURB & GUTTER FROM -Y- STA 10+00+/- TO STA 12+40+/- IN THE FOLLWING LOCATIONS: (SEE CONSTRUCTION PLANS)

-- STA 10+00+/- TO STA 12+40+/- -Y-

-- CONSTRUCT BAKER RD. (-Y1-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -Y1- STA 10+20+/- TO STA 11+76+/- AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) IN THE EXISTING TRAFFIC PATTERN. (SEE CONSTRUCTION PLANS AND SHEET TCP-5)

NOTE: FEATHER PROPOSED PAVEMENT TO EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER. INSTALL A BLACK ON ORANGE "DIP" SIGN (W8-2) AND "BUMP" SIGN (W8-1) 150m IN ADVANCE OF THE UNEVEN AREA.

NOTE: PLACE TYPE III BARRICADES WITH "ROAD CLOSED" (R11-2) SIGNS TO PREVENT TRAFFIC FROM ACCESSING REALIGNED ALLEGHANY RD. AND BAKER RD. DETOUR ALIGNMENT.

STEP 5: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, AND WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) ON THE NEWLY REALIGNED ALLEGHANY RD. FROM -Y- STA 10+00+/- TO THE INTERSECTION WITH BAKER RD. (-Y1-) AND OPEN REALIGNED ALLEGHANY ST. TO A TWO LANE TWO WAY INTERMEDIATE TRAFFIC PATTERN TO BE UTILIZED DURING PHASE I, STEP 5 AND 6 CONSTRUCTION AND PLACE TYPE III BARRICADES WITH "ROAD CLOSED" (R11-2) SIGNS TO CLOSE OFF THE EXISTING ALIGNMENT. (SEE SHEET TCP-5)

STEP 6: AWAY FROM TRAFFIC, PERFORM THE FOLLOWING:

-- CONSTRUCT THE TEMPORARY DETOUR (-DET-) FROM -DET- STA 11+34+/- TO STA 11+74+/-. (SEE CONSTRUCTION PLANS AND SHEET TCP-5)

-- COMPLETE THE CONSTRUCTION OF THE TEMPORARY DETOUR (-DET-) UP TO AND INCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -DET- STA 11+74+/- TO STA 13+33+/- INCLUDING THE DRIVEWAY TO PARCEL #92 AS BEGUN IN STEP 2. (SEE CONSTRUCTION PLANS AND SHEET TCP-5)

STEP 7: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, CONSTRUCT THE TEMPORARY DETOUR FROM -DET- STA 13+33+/- TO STA 14+52+/- -DET-. PLACE TYPE III BARRICADES WITH "ROAD CLOSED" (R11-2) SIGNS TO DENY ACCESS TO THE DETOUR FROM BAKER RD. (-Y1-). (SEE CONSTRUCTION PLANS AND SHEET TCP-5)

STEP 8: USING ROADWAY STANDARD DRAWINGS 1101.02, SHEET 1 OF 7 AS NECESSARY, AND WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) ON THE TEMPORARY DETOUR (-DET-) FROM -DET- STA 10+00+/- TO STA 14+52+/-, REMOVE AND REPLACE ANY CONFLICTING PAVEMENT MARKINGS AND MARKERS AT THE INTERSECTION OF THE DETOUR AND REALIGNED ALLEGHANY RD. (-Y-), RELOCATE THE EXISTING STOP SIGN AT THE INTERSECTION OF REALIGNED ALLEGHANY RD. (-Y-) AND BAKER RD. (-Y1-) AS DIRECTED BY THE ENGINEER, AND, IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.03, SHEET 3 OF 9, CLOSE EXISTING BAKER RD. (-Y1-) FROM -Y1- STA 11+76+/- TO STA 14+20+/- AND OPEN THE TEMPORARY DETOUR TO A TWO-LANE TWO-WAY INTERMEDIATE TRAFFIC PATTERN TO BE UTILIZED DURING PHASE II CONSTRUCTION. (SEE SHEET TCP-6)

PHASE II

STEP 1: AWAY FROM TRAFFIC, PERFORM THE FOLLOWING:

-- OBLITERATE AND REMOVE ANY REMAINING PORTION OF THE EXISTING ALIGNMENT OF ALLEGHANY RD. (-Y-). (SEE CONSTRUCTION PLANS)

-- CONSTRUCT BAKER RD. (-Y1-) INCLUDING THE PROPOSED STRUCTURE OVER PROPOSED US 311 (-L-) AND PROPOSED GUARDRAIL UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -Y1- STA 11+76+/- TO STA 14+20+/- (-Y1-). (DO NOT CONSTRUCT PROPOSED CURB AND GUTTER RIGHT OF -Y1- STA 11+52+/- (-Y1-) IN THE VICINITY OF THE INTERSECTION WITH ALLEGHANY ST.) (-Y-). (SEE CONSTRUCTION PLANS)

-- BEGIN CONSTRUCTION OF PROPOSED US 311 (-L-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -L- STA 13+38+/- TO STA 13+75+/-.

STEP 2: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, AND WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) ON BAKER RD. (-Y1-) FROM -Y1- STA 10+20+/- TO STA 14+52+/-. REMOVE AND REPLACE ANY CONFLICTING PAVEMENT MARKINGS ON REALIGNED ALLEGHANY RD. (-Y-), RELOCATE "STOP" SIGN FROM THE INTERSECTION OF REALIGNED ALLEGHANY RD. (-Y-) AND TEMPORARY DETOUR (-DET-) TO THE INTERSECTION OF REALIGNED ALLEGHANY RD. (-Y-) AND BAKER RD. (-Y1-) AS DIRECTED BY THE ENGINEER AND OPEN ALLEGHANY RD. (-Y-) AND BAKER RD. (-Y1-) TO THE FINAL TRAFFIC PATTERN. PLACE TYPE III BARRICADES WITH "ROAD CLOSED" (R11-2) SIGNS TO CLOSE ACCESS TO THE TEMPORARY DETOUR (-DET-) FROM BOTH REALIGNED ALLEGHANY RD. (-Y-) AND BAKER RD. (-Y1-). (SEE CONSTRUCTION PLANS AND TCP-7)

STEP 3: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, COMPLETE THE CONSTRUCTION OF THE CURB & GUTTER IN THE VICINITY OF THE INTERSECTION WITH ALLEGHANY RD. (-Y-) AND BAKER RD. (-Y1-).

PHASE III

STEP 1: AWAY FROM TRAFFIC, AND USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 AS NECESSARY, OBLITERATE AND REMOVE THE TEMPORARY DETOUR (-DET-).

STEP 2: AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF PROPOSED US 311 (-L-) UP TO BUT NOTINCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -L- STA 12+67+/- TO STA 13+38+/-. (SEE CONSTRUCTION PLANS)

STEP 3: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, CONSTRUCT REMAINDER OF ALLEGHANY RD. (-Y-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) FROM -Y- STA 13+20+/- TO STA 13+64+/-.

STEP 4: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, PLACE THE FINAL LAYER OF THE SURFACE COURSE AND FINAL PAVEMENT MARKINGS (THERMOPLASTIC) AND MARKERS (PERMANENT RAISED) ON ALLEGHANY RD. (-Y-) AND BAKER RD. (-Y1-) IN THE FOLLOWING LOCATIONS AND REMOVE ALL TRAFFIC CONTROL DEVICES FROM THESE TWO ROADS:

-Y- STA 10+00+/- TO STA 13+68+/-
-Y1- STA 10+20+/- TO STA 14+20+/-

STEP 5: AWAY FROM TRAFFIC, PERFORM THE FOLLOWING:

-- CONSTRUCT THE PROPOSED REALIGNMENT OF JACKSON LAKE RD. (-Y2-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND INCLUDING THE STRUCTURE FROM -Y2- STA 12+10+/- TO STA 13+38+/-. (SEE CONSTRUCTION PLANS)

-- BEGIN CONSTRUCTION OF PROPOSED US 311 (-L-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN TH FOLLOWING LOCATIONS: (SEE CONSTRUCTION PLANS)

-L- STA 27+00+/- TO STA 28+20+/-
-L- STA 29+00+/- TO STA 37+20+/-

STEP 6: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, RESURFACE THE ENTIRE LENGTH OF COX AVE. FROM BAKER RD. (-Y1-) TO JACKSON LAKE RD. (-Y2-) AS SHOWN IN THE CONSTRUCTION PLANS. PLACE PAINT PAVEMENT MARKINGS.

NOTE: CONTRACTOR SHALL NOT CLOSE -Y2- (JACKSON LAKE RD.) UNTIL -Y1- (BAKER RD.) IS COMPLETED, INCLUDING NEW STRUCTURE, AND REOPENED TO TRAFFIC.

PHASE IV

STEP 1: PLACE DETOUR SIGNS ALONG TEMPORARY DETOUR ROUTE. (SEE SHEET TCP-9)

NOTE: COMPLETE WORK REQUIRED OF PHASE IV, STEP 2 THROUGH PHASE V, STEP 3 IN 240 CONSECUTIVE DAYS. (SEE INTERMEDIATE CONTRACT TIME NO. 4 AND LIQUIDATED DAMAGES)

STEP 2: RE-ROUTE TRAFFIC ONTO DETOUR ROUTE. (SEE SHEET TCP-9)

STEP 3: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7:

-- CONSTRUCT THE PROPOSED REALIGNMENT OF JACKSON LAKE RD. (-Y2-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE AND INCLUDING AND INCLUDING THE STRUCTURE AT THE FOLLOWING LOCATIONS: (SEE CONSTRUCTION PLANS)(SEE SHEET TCP-8)

-Y2- STA 10+00+/- TO STA 12+10+/-
-Y2- STA 13+38+/- TO STA 17+39+/-

-- BEGIN CONSTRUCTION OF PROPOSED US 311 (-L-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -L- STA 28+20+/- TO STA 29+00+/- (SEE CONSTRUCTION PLANS)(SEE SHEET TCP-8)

PHASE V

STEP 1: REMOVE OLD JACKSON LAKE ROAD (-Y2-). (SEE CONSTRUCTION PLANS)

STEP 2: PLACE FINAL PAVEMENT MARKINGS (PAINT) AND MARKERS (PERMANENT RAISED) ON THE REALIGNED JACKSON LAKE RD. (-Y2-) FROM -Y2- STA 10+00+/- TO STA 14+52+/-.

STEP 3: REMOVE ALL DETOUR SIGNS AND TRAFFIC CONTROL DEVICES ON JACKSON LAKE RD. (-Y2-) AND OPEN JACKSON LAKE RD. TO TRAFFIC.

STEP 4: AWAY FROM TRAFFIC, COMPLETE THE CONSTRUCTION OF PROPOSED US 311 (-L-) AS BEGUN IN PHASE I STEP 2, PHASE II STEP 1, PHASE III STEP 2, AND PHASE 4, STEP 3, FROM -L- STA 11+99+/- TO STA 29+00+/-. PLACE THE FINAL LAYER OF THE SURFACE COURSE AND FINAL PAVEMENT MARKINGS (THERMOPLASTIC) AND MARKERS (SNOWPLOWABLE RAISED). OPEN THIS SEGMENT OF US 311 (-L-) TO TRAFFIC SIMULTANEOUSLY WITH THE SEGMENTS TO BE CONSTRUCTED WITHIN AREAS 2 AND 3.

APPROVED: J.W. Woolard DATE: 7/7/06

SEAL

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

AREA 1 PHASING

SCALE:	NONE
DATE:	2006 JULY 6
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

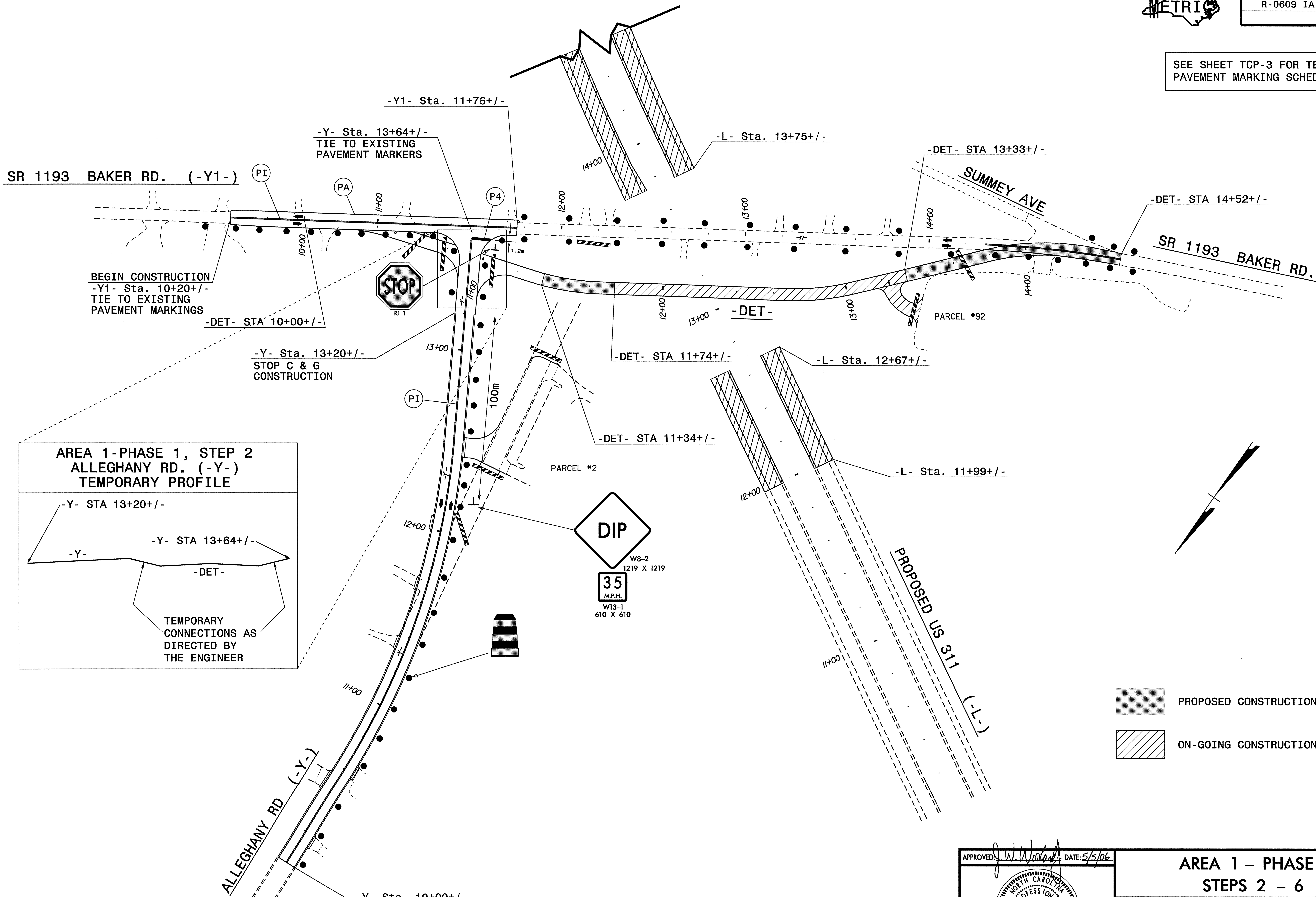
REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-5

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: J. W. Woolard DATE: 5/5/06	AREA 1 – PHASE I STEPS 2 – 6
SEAL — NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J. W. WOOLARD, JR.	

SCALE:	NONE
DATE:	2006 MAR 1
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

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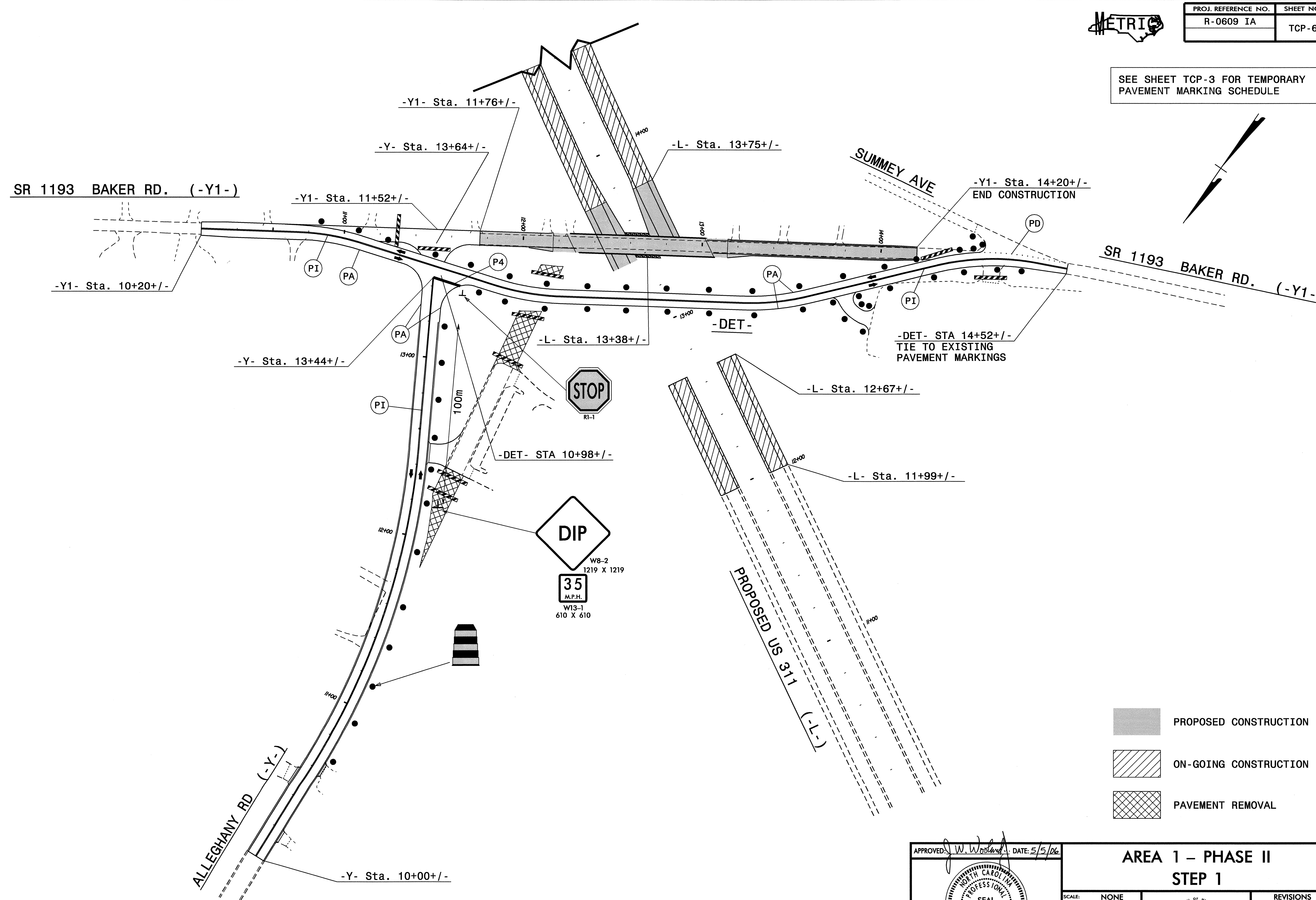
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-6

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: J. W. Woolard DATE: 5/5/06

SEAL

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

AREA 1 – PHASE II
STEP 1

SCALE:	NONE
DATE:	2006 MAR 1
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

REVISIONS

CADD FILE

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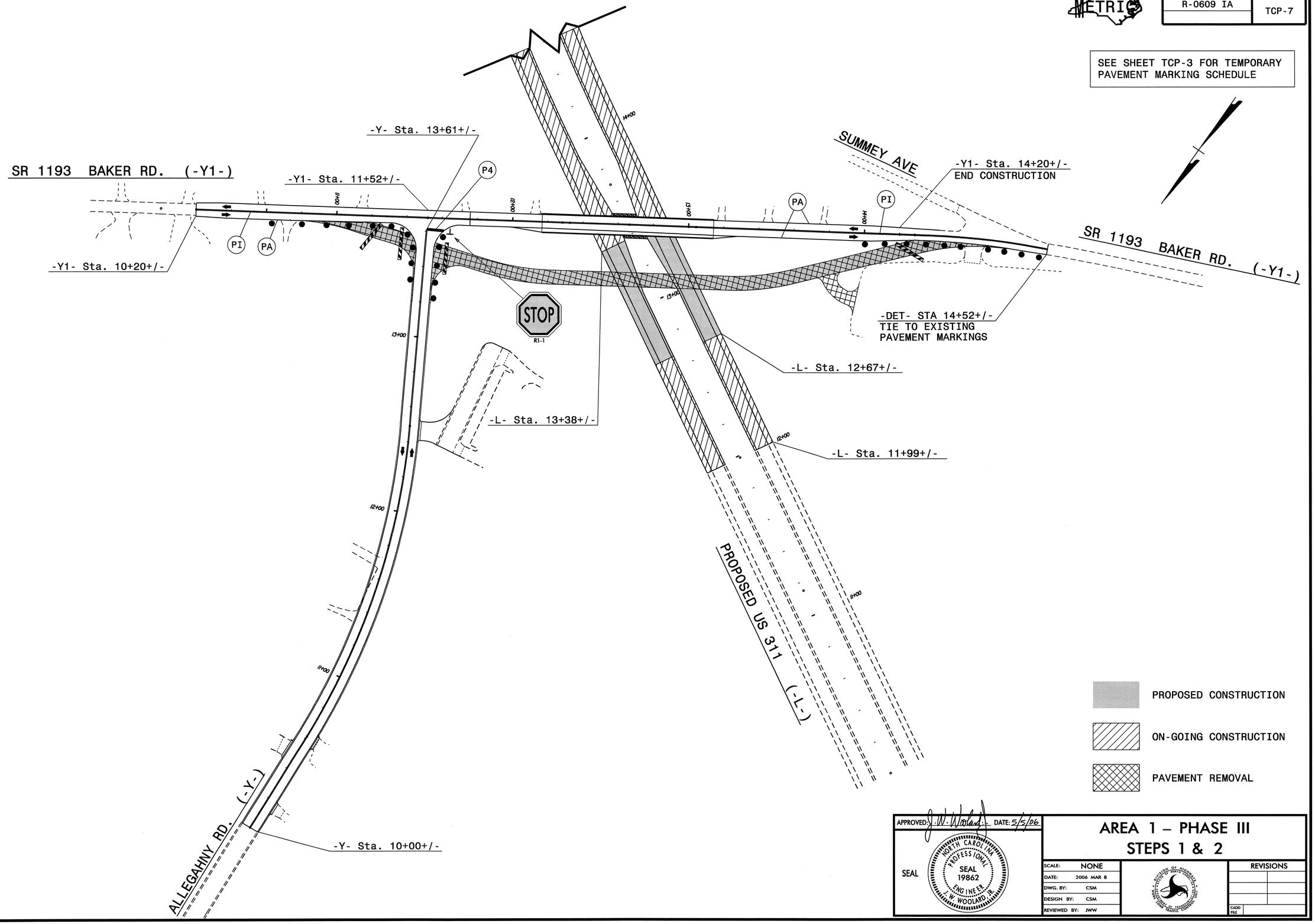
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-7

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



PROPOSED CONSTRUCTION

ON-GOING CONSTRUCTION

PAVEMENT REMOVAL

APPROVED: J. W. Woolard DATE: 5/5/06

SEAL

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

AREA 1 – PHASE III
STEPS 1 & 2

SCALE:	NONE
DATE:	2006 MAR 8
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION TRAFFIC CONTROL UNIT

REVISIONS	
CADD FILE	

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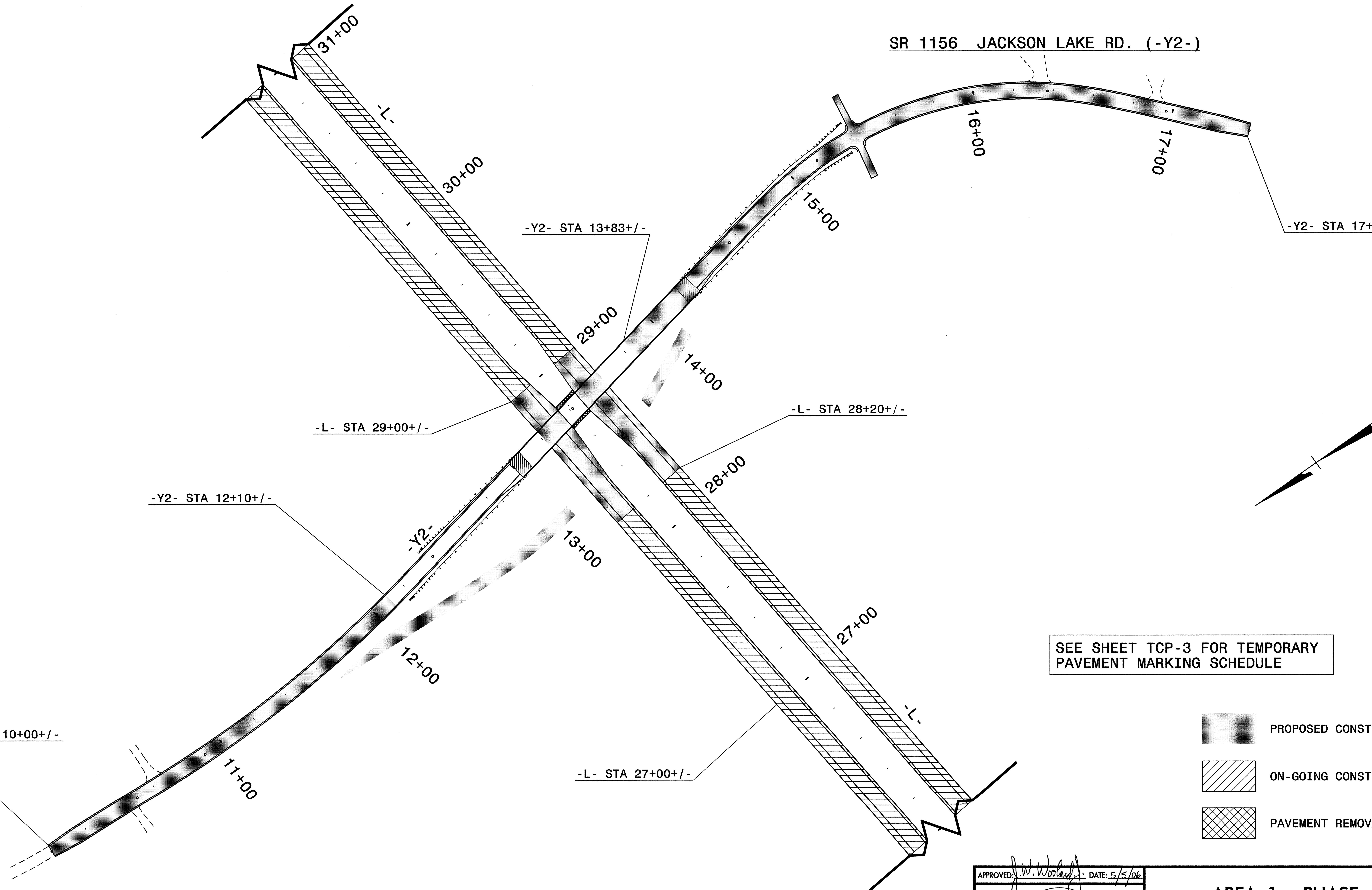
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-8

METRIC



SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

PROPOSED CONSTRUCTION

ON-GOING CONSTRUCTION

PAVEMENT REMOVAL

APPROVED: J.W. Woolard, Jr. DATE: 5/5/06

SEAL

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

AREA 1 – PHASE 4

SCALE:	NONE
DATE:	2006 JAN 11
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

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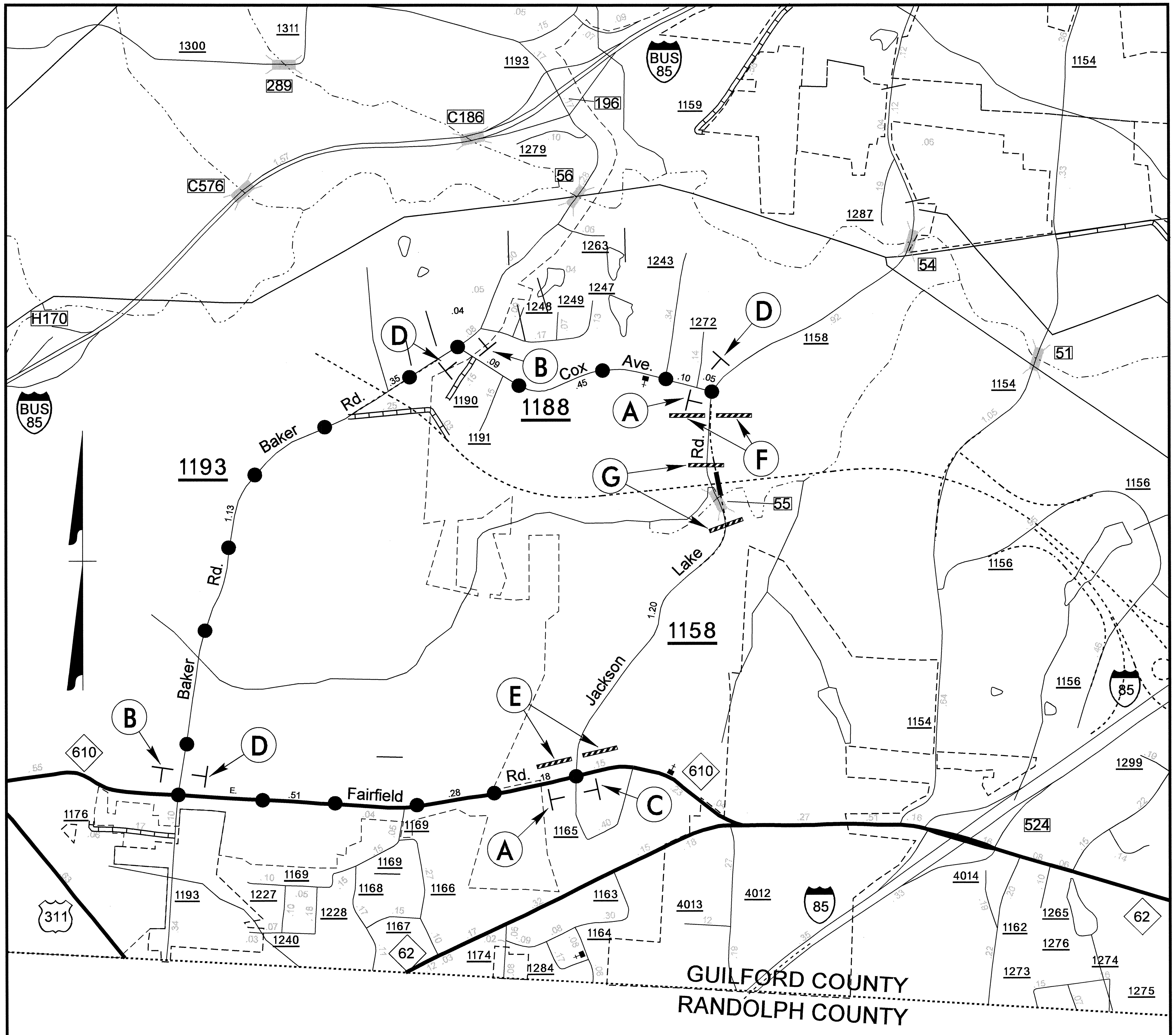
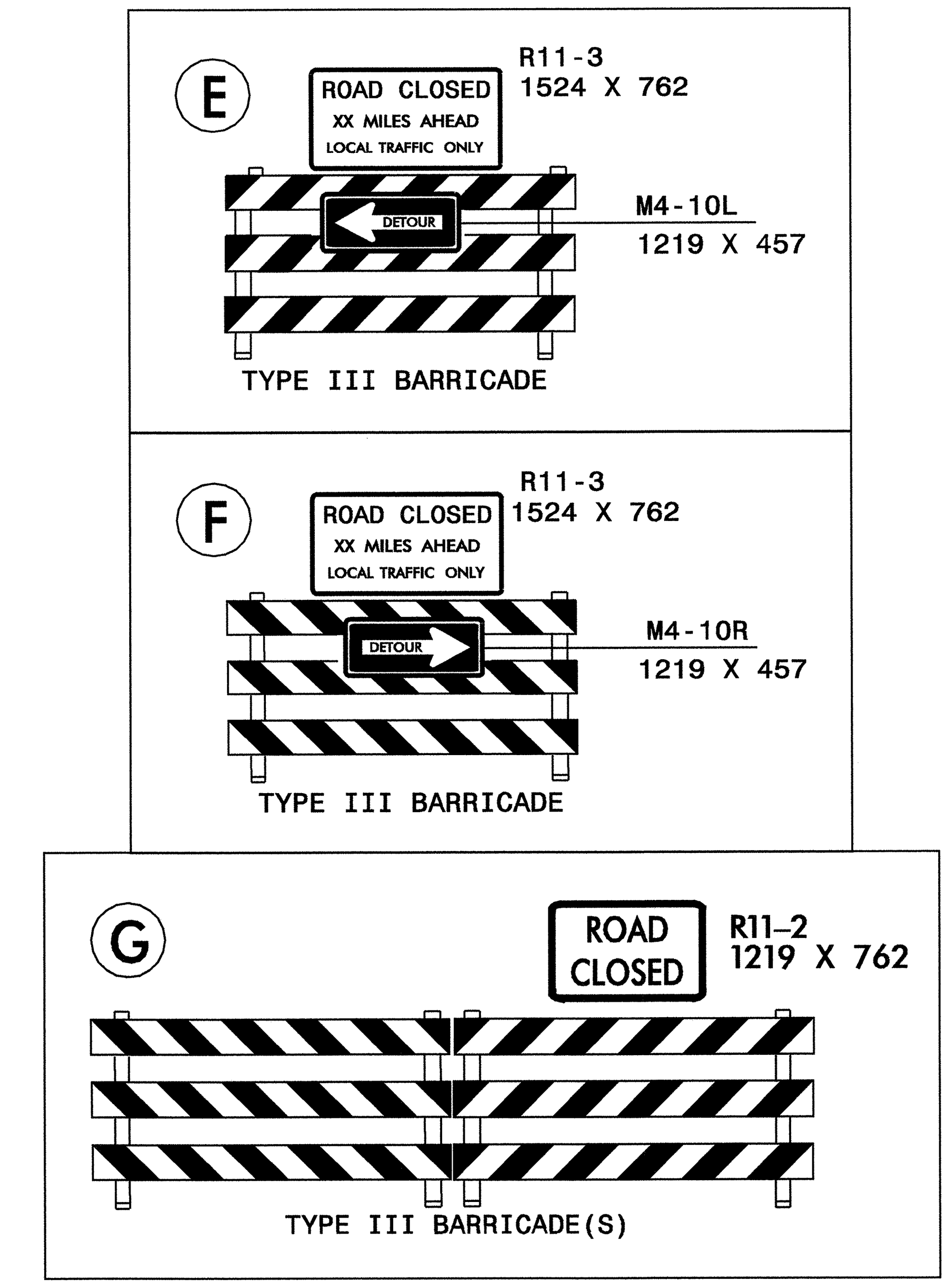
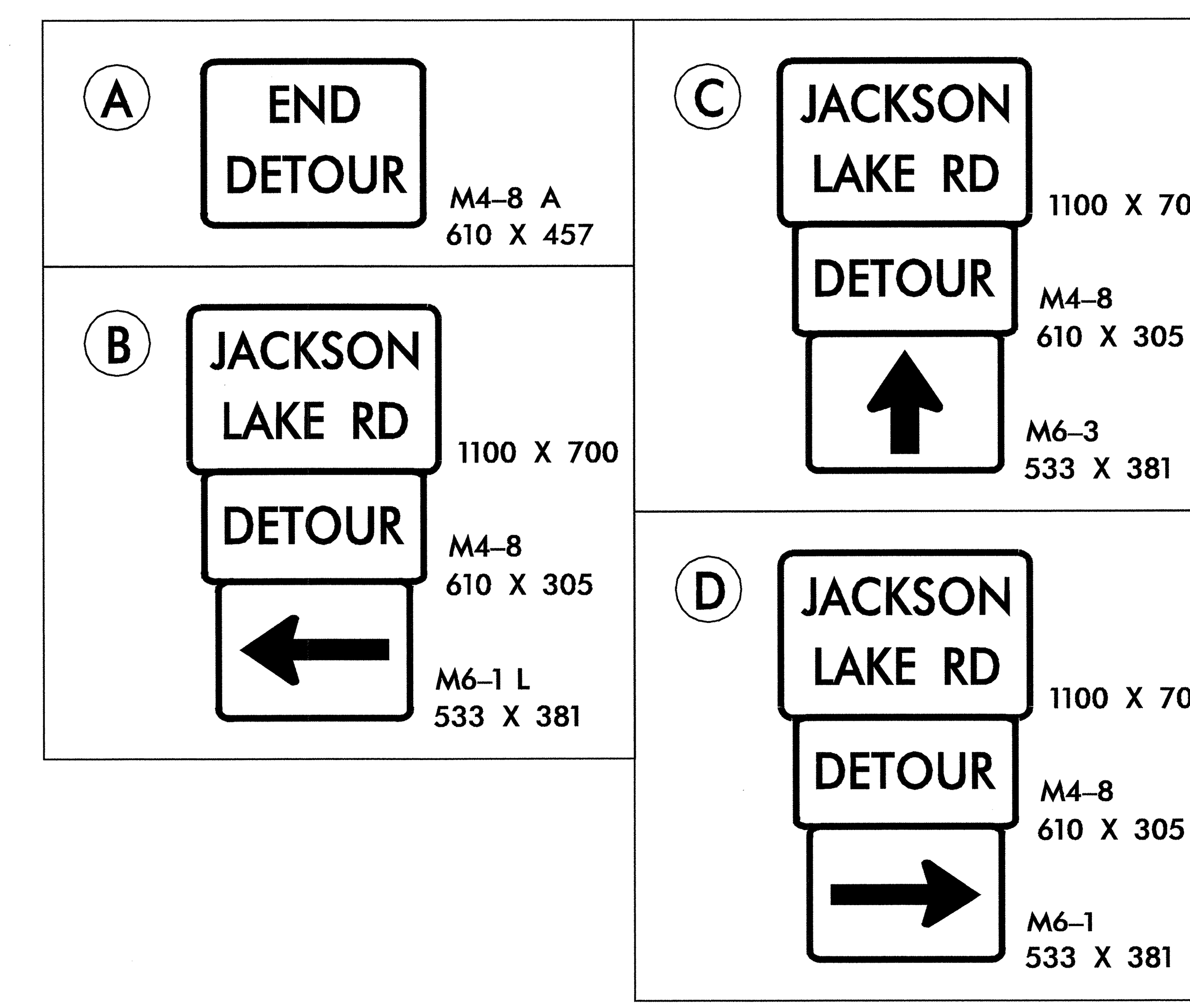
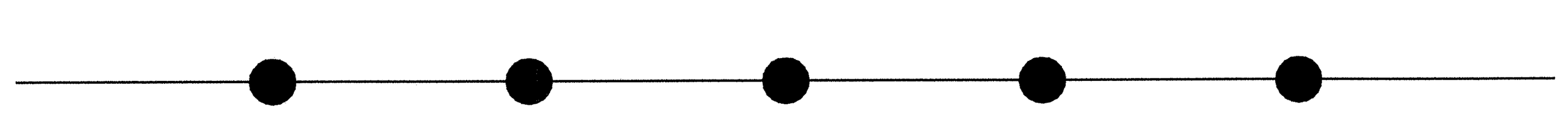
csmozingo AT WZTC224097

METRIC









DETOUR ROUTE

APPROVED: J. W. Woolard, J. DATE: 5/5/06

SEAL

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

DETOUR ROUTE

SCALE:	NONE
DATE:	2006 JAN 11
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

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csmozingo AT WZTC224097

METRIC

PROJ. REFERENCE NO.	SHEET NO.
R-0609IA	TCP-10

N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING BRANCH
SIGNING DEPARTMENT

SIGN NUMBER: JL_RD
TYPE: D
QUANTITY: 1

SIGN WIDTH: 1100mm
HEIGHT: 700mm
TOTAL AREA: 0.8 Sq.m

BORDER TYPE: FLUSH
RECESS: 11mm
WIDTH: 15mm
RADII: 35mm

NO. Z BARS:
LENGTH:

BACKG COLOR: Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: B. Hemphill
PROJECT ID: R-0609IA
CHECKED BY: K. Jordan
DIV: 7
STD #:
DATE: Jan 12,2005

USE NOTES: 2, 4

1. Legend and border shall be direct applied Type III reflective sheeting.
2. Legend and border shall be direct applied non-reflective sheeting.
3. Shields shall be Type III reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
4. Background shall be Type III reflective sheeting.
5. Background shall be Type I reflective sheeting.
6. Center arrow(s) vertically on sign.
7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter spacings are to start of next letter

										Series/Size Text Length
		J	A	C	K	S	O	N		C150
	174	102	121	109	109	109	120	83	174	752
		L	A	K	E		R	D		C150
	180	85	121	109	77	150	115	83	180	740

Spacing Factor is 1 unless specified otherwise

FILENAME: TrafCtrlSign2

NORTH CAROLINA D.O.T. SIGN DETAIL

04-MAY-2006 06:33
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csmozingo AT WZTC224097

APPROVED: J. W. Woolard DATE: 5/5/06

SEAL

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

STREET SIGN DETAIL

SCALE: NONE
DATE: 2006 JAN 11
DWG. BY: BH
DESIGN BY: BH
REVIEWED BY:

REVISIONS

CADD FILE

METRIC

AREA 2

NOTE: MAINTAIN ACCESS TO ALL DRIVEWAYS THROUGHOUT THE PROJECT FOR THE DURATION OF THE PROJECT

PHASE I

STEP 1: INSTALL ADVANCED WARNING SIGNS IN ACCORDANCE WITH SHEET TCP-61.

STEP 2: AWAY FROM TRAFFIC, PERFORM THE FOLLOWING:

-- CONSTRUCT THE PROPOSED REALIGNMENT OF DRESDEN RD. UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE IN THE FOLLOWING LOCATIONS: (SEE CONSTRUCTION PLANS)

-Y4- STA 11+60+/- TO STA 16+40+/-
-Y5- STA 11+40+/- TO STA 17+00+/-

-- CONSTRUCT THE TEMPORARY DETOUR (-DET2-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -DET2- STA 12+37+/- TO STA 14+60+/-. (SEE CONSTRUCTION PLANS)

-- CONSTRUCT THE TEMPORARY DETOUR (-DET3-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -DET3- STA 12+51+/- TO STA 12+99+/-. (SEE CONSTRUCTION PLANS)

-- BEGIN CONSTRUCTION OF PROPOSED US 311 (-L-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE IN THE FOLLOWING LOCATIONS: (SEE CONSTRUCTION PLANS)

-L- STA 39+00+/- TO STA 41+60+/-
-L- STA 43+40+/- TO STA 48+20+/-

-- CONSTRUCT THE FLYOVER (-FLY-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -FLY- STA 10+35+/- TO STA 15+20+/-. (SEE CONSTRUCTION PLANS)

STEP 3: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, AND WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD PERFORM THE FOLLOWING:

-- CONSTRUCT THE TIE-INS OF THE PROPOSED REALIGNMENT OF DRESDEN RD. AND KERSEY VALLEY RD. UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE IN THE FOLLOWING LOCATIONS: (SEE CONSTRUCTION PLANS)

-Y3- STA 10+00+/- TO STA 11+40+/-
-Y4- STA 10+00+/- TO STA 11+60+/-
-DET2- STA 14+60+/- TO STA 15+92+/-

STEP 4: COMPLETE CONSTRUCTION UP THROUGH THE FINAL LAYER OF THE SURFACE COURSE AT THE FOLLOWING LOCATIONS:

-DET2- STA 12+37+/- TO STA 15+92+/-
-DET3- STA 12+51+/- TO STA 12+99+/-

NOTE: FEATHER PROPOSED PAVEMENT TO Y-LINE PAVEMENT AS DIRECTED BY THE ENGINEER. INSTALL A BLACK ON ORANGE "DIP" SIGN (W8-2) AND "BUMP" SIGN (W8-1) IN ADVANCE OF THE UNEVEN AREA.

STEP 5: PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) AND REMOVE ANY CONFLICTING PAVEMENT MARKINGS AND MARKERS AT THE FOLLOWING LOCATIONS:

-Y3- STA 10+00+/- TO STA 11+40+/-
-Y4- STA 10+00+/- TO STA 16+52+/-
-DET2- STA 12+37+/- TO STA 15+92+/-
-DET3- STA 12+51+/- TO STA 12+99+/-

INSTALL OFFSITE DETOUR SIGNS (SEE TCP-12). USING ROADWAY STANDARD DRAWING 1101.03, SHEET 1 OF 9, CLOSE KERSEY VALLEY RD & PLACE TRAFFIC ON DETOUR ROUTE IN A TWO-LANE TWO-WAY INTERMEDIATE TRAFFIC PATTERN. PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS (R11-2) TO PREVENT TRAFFIC FROM ACCESSING OLD KERSEY VALLEY RD. AND OLD DRESDEN RD. (SEE CONSTRUCTION PLANS AND SHEET TCP-12)

NOTE: FEATHER PROPOSED PAVEMENT TO EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER. INSTALL A BLACK ON ORANGE "DIP" SIGN (W8-2) AND "BUMP" SIGN (W8-1) 150m IN ADVANCE OF THE UNEVEN AREA.

PHASE II

STEP 1: INSTALL ADVANCED WARNING SIGNS IN ACCORDANCE WITH SHEET TCP-61

STEP 2: AWAY FROM TRAFFIC, PERFORM THE FOLLOWING:

-- OBLITERATE AND REMOVE THE PORTION OF THE EXISTING KERSEY VALLEY RD. FROM -Y3- STA 11+40+/- TO STA 14+40+/- AND ON DRESDEN RD. BETWEEN -Y4- STA 11+20+/- TO -DET2- STA 14+90+/-. (SEE CONSTRUCTION PLANS)

-- CONSTRUCT THE PROPOSED REALIGNMENT OF KERSEY VALLEY RD. (-Y3-), INCLUDING NEW STRUCTURE, UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -Y3- STA 11+40+/- TO STA 14+40+/- AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED). (SEE CONSTRUCTION PLANS)

NOTE: PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS (R11-2) TO PREVENT TRAFFIC FROM ACCESSING OLD KERSEY VALLEY RD. AND DRESDEN RD. (SEE CONSTRUCTION PLANS)

NOTE: FEATHER PROPOSED PAVEMENT TO EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER. INSTALL A BLACK ON ORANGE "DIP" SIGN (W8-2) AND "BUMP" SIGN (W8-1) 150m IN ADVANCE OF THE UNEVEN AREA.

STEP 3: AWAY FROM TRAFFIC BEGIN CONSTRUCTION OF US 311 (-L-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -L- STA 37+00+/- STA 39+00+/-. REOPEN -Y3- TO NEW TRAFFIC PATTERN AND REMOVE OFFSITE DETOUR SIGNING.

PHASE III

STEP 1: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7:

-- WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE OF DRESDEN RD. FROM -Y5- STA 10+00+/- TO STA 11+40+/- AND FROM -Y5- STA 17+00+/- TO STA 19+45+/- AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) OPEN REALIGNED DRESDEN RD. (-Y5-) TO TRAFFIC..

NOTE: PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS (R11-2) TO CLOSE OFF -DET2-, -DET3- AND EXISTING DRESDEN RD. LEFT AND RIGHT OF -L- STA 43+00+/- TO STA 48+40+/-. (SEE CONSTRUCTIONS PLANS AND SHEET TCP-14)

-- REMOVE EXISTING PAVEMENT ON -DET2- FROM STA 12+37+/- TO 15+82+/- AND -DET3- STA 12+68+/- TO STA 12+95+/-.

-- COMPLETE CONSTRUCTION UP THROUGH THE FINAL LAYER OF THE SURFACE COURSE INCLUDING FINAL PAVEMENT MARKINGS (PAINT) AND MARKERS (PERMANENT RAISED) AND TIE PROPOSED MARKINGS TO EXISTING MARKINGS ON -Y3- FROM STA 10+00+/- TO STA 14+40+/- AND -Y4- FROM STA 10+00+/- TO STA 16+52+/-. (SEE SHEET TCP-14)

NOTE: FEATHER PROPOSED PAVEMENT TO EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER. INSTALL A BLACK ON ORANGE "DIP" SIGN (W8-2) AND "BUMP" SIGN (W8-1) 150m IN ADVANCE OF THE UNEVEN AREA.

STEP 2: AWAY FROM TRAFFIC PERFORM THE FOLLOWING:

-- BEGIN CONSTRUCTION OF US 311 (-L-) UP TO BUT NOT INCLUDING THE FINAL LAYER OF THE SURFACE COURSE FROM -L- STA 41+60+/- TO STA 43+40+/-.

STEP 3: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7, COMPLETE CONSTRUCTION OF DRESDEN RD. (-Y5-) UP THROUGH THE FINAL LAYER OF THE SURFACE COURSE INCLUDING FINAL PAVEMENT MARKINGS (PAINT) AND MARKERS (PERMANENT RAISED). TIE THE PROPOSED MARKINGS TO THE EXISTING MARKINGS.

NOTE: FEATHER PROPOSED PAVEMENT TO THE EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER. INSTALL A BLACK ON ORANGE "DIP" SIGN (W8-2) AND "BUMP" SIGN (W8-1) 150m IN ADVANCE OF THE UNEVEN AREA.

APPROVED: J. W. Woolard, Jr. DATE: 5/5/06

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

AREA 2 PHASING

SCALE:	NONE
DATE:	2006 JAN 11
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

REVISIONS

CADD FILE

04-MAY-2006 06:33
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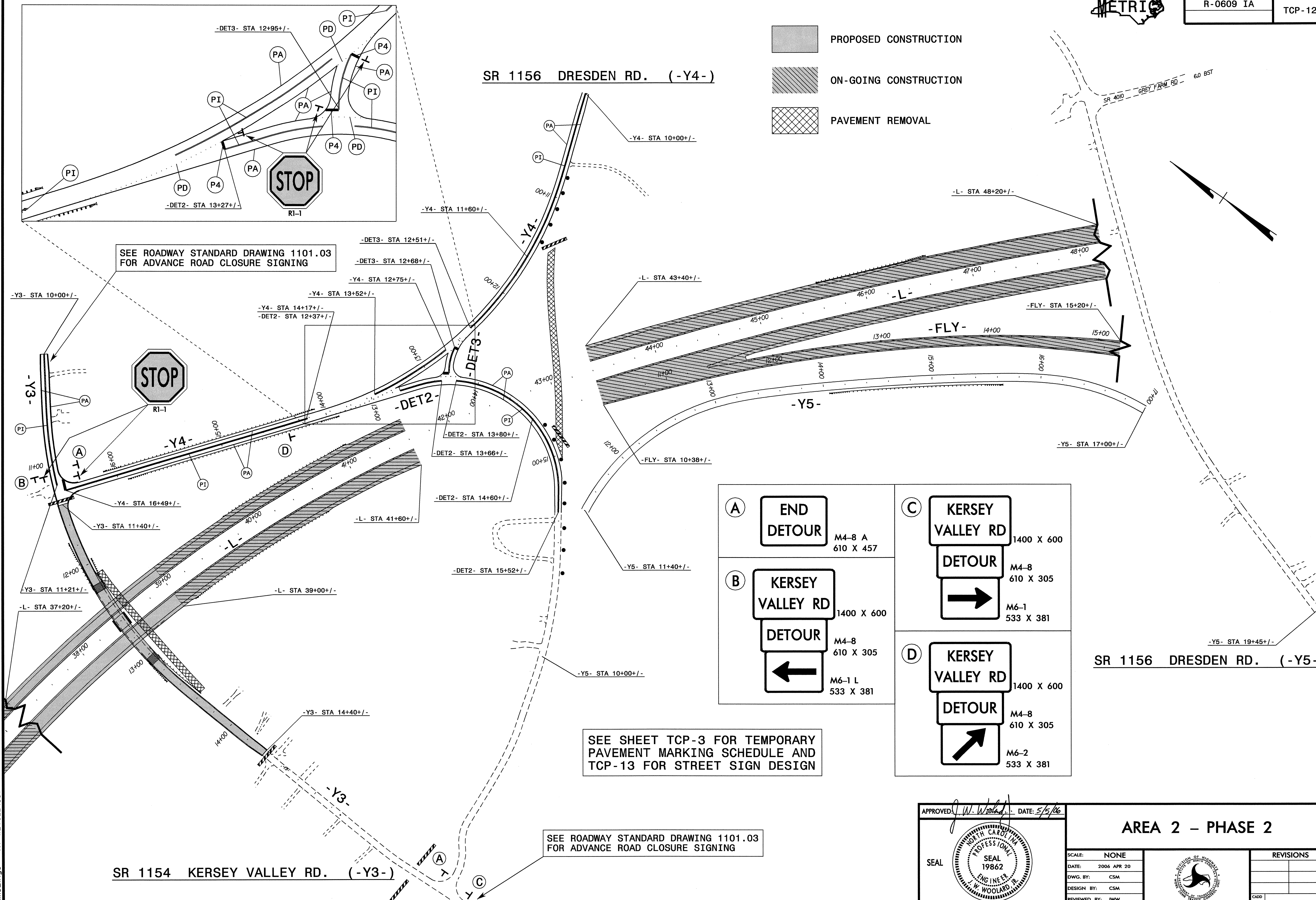
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-12

METRIC



A	END DETOUR	M4-8 A 610 X 457
B	KERSEY VALLEY RD / DETOUR / ←	1400 X 600; M4-8 610 X 305; M6-1 L 533 X 381
C	KERSEY VALLEY RD / DETOUR / →	1400 X 600; M4-8 610 X 305; M6-1 533 X 381
D	KERSEY VALLEY RD / DETOUR / ↗	1400 X 600; M4-8 610 X 305; M6-2 533 X 381

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE AND TCP-13 FOR STREET SIGN DESIGN

APPROVED: J. W. Woolard DATE: 5/5/06

SEAL

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

AREA 2 – PHASE 2

SCALE:	NONE
DATE:	2006 APR 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 06:33
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csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-13

METRIC

N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING BRANCH
SIGNING DEPARTMENT

Sign Number:
Type: D Ground
Quantity: 1

Design By: KLJ
Project ID: R-0609IA

Check By:
DIV: 7

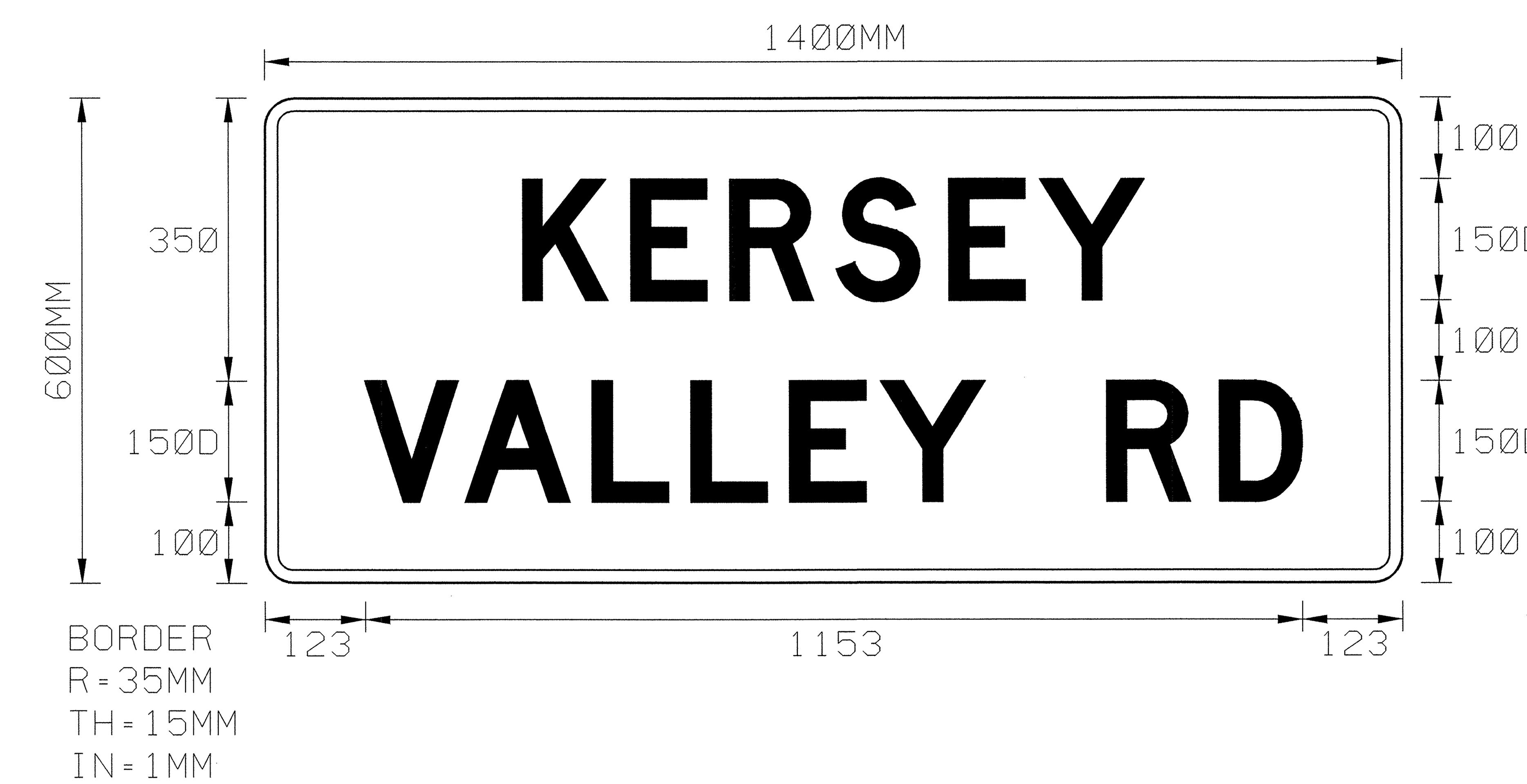
STD #: N/A
Date: Oct 18,2005

Sign Width: 1400mm
Height: 600mm
Total Area: 0.8 Sq.m

Background Color: Fluorescent Orange
Legend & Border Color: Black

Border Type: Recessed
Recess: 1mm
Width: 15mm
Radii: 35mm

Backing Material: 0.125 in. Aluminum
0.079 in. Composite



NOTES:
1. Legend and border shall be direct applied non-reflective sheeting.
2. Background shall be Type VII, VIII, or IX (prismatic) retroreflective sheeting.

Letter spacings are to start of next letter

												Series/Size Text Length
		K	E	R	S	E	Y					D150
	318	134	122	131	139	112	128	318				765
		V	A	L	L	E	Y		R	D		D150
	123	124	156	122	122	112	128	150	139	102	123	1153

Spacing Factor is 1 unless specified otherwise

FILENAME: GS40_ENGL

APPROVED: J. W. Woolard DATE: 5/5/06

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

STREET SIGN DESIGN

SCALE:	NONE
DATE:	2006 JAN 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

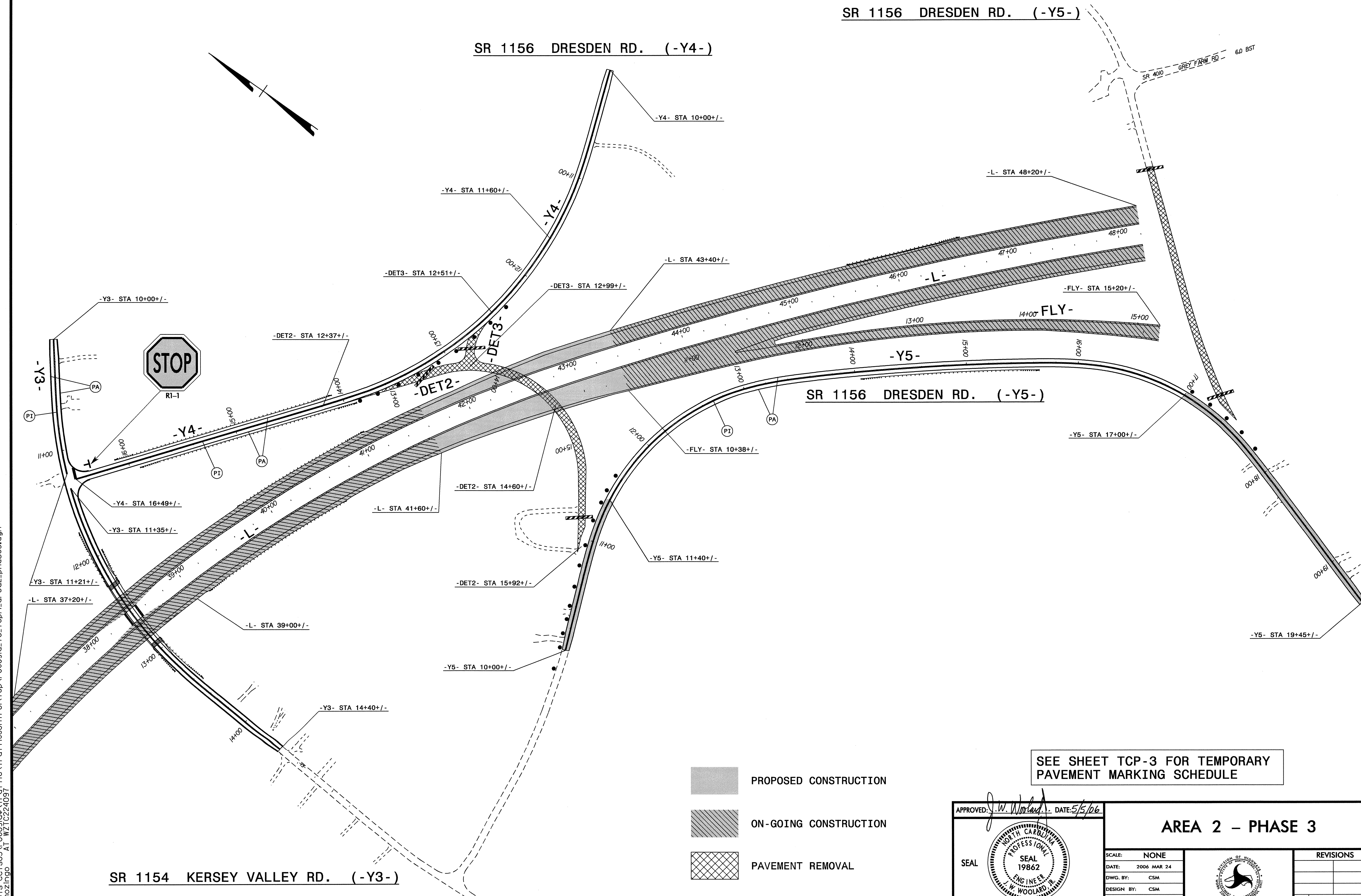
REVISIONS

CADD FILE

04-MAY-2006 06:33
\\ets-ccfs03\r0609ia$\traffic\trafficcontrol\tcp\r0609ia_tc_tcp13_area2_street_sign.dgn
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-14

METRIC



PROPOSED CONSTRUCTION

ON-GOING CONSTRUCTION

PAVEMENT REMOVAL

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

APPROVED: J.W. Woolard DATE: 5/5/06

SEAL

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

AREA 2 – PHASE 3

SCALE:	NONE
DATE:	2006 MAR 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 06:33
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csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-15

NOTE: MAINTAIN ACCESS TO ALL DRIVEWAYS THROUGHOUT THE PROJECT FOR THE DURATION OF THE PROJECT

NOTE: STEPS 1 AND 2 MAY BE PERFORMED CONCURRENTLY.

PHASE I

STEP 1: INSTALL ADVANCE WARNING SIGNS ON -Y6- IN ACCORDANCE WITH SHEET TCP-60

STEP 2: USE TYPE III BARRICADES TO CLOSE CHECKER RD. (SR 1148) EAST AND WEST OF PROPOSED US 311 (-L-) AND CONSTRUCT BOTH PROPOSED CUL-DE-SACS UP TO AND INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE CONSTRUCTION PLANS.)

STEP 3: AWAY FROM TRAFFIC, BEGIN THE CONSTRUCTION OF PROPOSED US 311 (-L-) EASTBOUND AND WESTBOUND, -RAMPA-, -RAMPB-, RAMPC-, -RAMPD-, -LOOPA-, -LOOPB-, -LOOPC-, AND -FLY- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE FOLLWING LOCATIONS: (SEE CONSTRUCTION PLANS AND SHEET TCP-19 THROUGH TCP-30)

-L- STA. 48+80 +/- TO 51+90 +/-
-L- STA. 52+85 +/- TO 61+00 +/-
-RAMPA- STA. 10+00 +/- TO 15+92 +/-
-RAMPB- STA. 11+00 +/- TO 15+67 +/-
-RAMPC- STA. 10+72 +/- TO 14+60 +/-
-RAMPD- STA. 11+00 +/- TO 16+40 +/-
-LOOPA- STA. 10+00 +/- TO 12+91 +/-
-LOOPB- STA. 10+00 +/- TO 12+94 +/-
-LOOPC- STA. 10+00 +/- TO 12+70 +/-
-FLY- STA. 15+90 +/- TO 18+51 +/-
-FLY- STA. 18+51 +/-(BEGIN BRIDGE) TO 18+82 +/-(BENT #1)
-FLY- STA. 19+74 +/-(BENT #3) TO 20+13 +/-(END BRIDGE)
-FLY- STA. 20+13 +/- TO 27+00 +/-

NOTE: STEPS 4 AND 5 MAY BE PERFORMED CONCURRENTLY.

STEP 4: CONSTRUCT THE NORTHBOUND COLLECTOR/DISTRIBUTOR (-NBCD-) , THE EXIT RAMP FROM I-85 NORTHBOUND TO US 62, THE ENTRANCE RAMP FROM US 62 TO I-85 NORTHBOUND (-NBCDRAMP-), -RAMPA-, -RAMPD-, AND -LOOPA- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS, AND OPEN TO THE INTERMEDIATE PHASE II TRAFFIC PATTERN IN THE FOLLOWING SEQUENCE. (SEE CONSTRUCTION PLANS)

A) USE ROADWAY STANDARD DRAWING 1101.02, SHEET 3, 6, AND 7 OF 7, AND WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON I-85 (NB)(-Y6-) AND THE ENTRANCE/EXIT RAMPS AT NC 62, PLACE ADVANCE WARNING SIGNS AND SHIFT TRAFFIC INTO THE TEMPORARY TRAFFIC PATTERN FROM -Y6- STA. 12+40 +/- TO STA. 48+80 +/- AS DETAILED THROUGH SHEETS TCP-19 THROUGH TCP-30. USE DRUMS TO CLOSE OFF THE OUTSIDE THROUGH LANE OF I-85 (NB)

B) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 7, INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ALONG I-85 (NB)(-Y6-), -NBCDRAMP-, AND THE EXIT RAMP FROM I-85 (NB) TO NC 62 AS DETAILED THROUGH SHEETS TCP-19 THROUGH TCP-30 IN THE FOLLOWING LOCATIONS:

-Y6- (NB) STA. 13+17 +/- TO STA. 18+66 +/-
-Y6- (NB) STA. 28+59 +/- TO STA. 29+69 +/-
-Y6- (NB) STA. 36+00 +/- TO STA. 41+52 +/-
-Y6- (NB) STA. 41+61 +/- TO STA. 46+75 +/-
-NBCDRAMP- STA. 10+60 +/- TO STA. 13+00 +/-

C) BEHIND BARRIER/AWAY FROM TRAFFIC, CONSTRUCT THE OUTSIDE WIDENING AND PAVED SHOULDER OF I-85 (NB)(-Y6-), -NBCD-, -NBCD- STRUCTURE, THE END SPAN OF THE FLYOVER STRUCTURE OVER -NBCD-, -RAMPD-, -NBCDRAMP- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, AND INSTALL ROADWAY LIGHTING AT THE -Y6-/NC 62 INTERCHANGE AS SHOWN IN THE LIGHTING PLANS, AS DETAILED THROUGH SHEETS TCP-19 THROUGH TCP-30 IN THE FOLLOWING LOCATIONS:

-Y6- (NB) STA. 13+27 +/- TO 15+77 +/-
-Y6- (NB) STA. 36+57 +/- TO 41+58 +/-
-Y6- (NB) STA. 42+64 +/- TO 45+80 +/-
-NBCD- STA. 10+00 +/- TO 30+20 +/-
-NBCD- STA. 30+80 +/- TO 32+59 +/-
-NBCDRAMP- STA. 10+00 +/- TO 12+23 +/-
-RAMPD- STA. 10+00 +/- TO 11+00 +/-
-LOOPA- STA. 10+00 +/- TO STA. 10+60 +/-

D) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 AND 7 OF 7, REMOVE PORTABLE CONCRETE BARRIER AND CRASH CUSHIONS AS DETAILED THROUGH SHEETS TCP-31 THROUGH TCP-44 IN THE FOLLOWING LOCATIONS:

-Y6- (NB) STA. 13+17 +/- TO 18+66 +/-
-Y6- (NB) STA. 28+59 +/- TO 29+69 +/-
-Y6- (NB) STA. 41+20 +/- TO 46+75

AREA 3

E) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3, 6 AND 7 OF 7, AND WORKING IN A CONTINOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON I-85 (NB)(-Y6-), -NBCD-, AND THE NC 62 ENTRANCE/EXIT RAMPS AS SHOWN ON SHEETS TCP-31 THROUGH TCP-44 AND SHIFT NC 62 ENTRANCE RAMP TRAFFIC ON TO THE NEWLY COMPLETED -NBCD-. MAINTAIN A SINGLE LANE OF TRAFFIC ON -NBCD- AND USE DRUMS AND TYPE III BARRICADES TO CLOSE THE EXISTING ALIGNMENT OF THE ENTRANCE RAMP AS DETAILED THROUGH SHEETS TCP-31 THROUGH TCP-44.

F) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 7, INSTALL PORTABLE CONCRETE BARRIER ALONG I-85 (NB), BEGINNING AT -Y6- (NB) STA. 31+90 +/- AND TIE TO THE EXISTING PORTABLE CONCRETE BARRIER (PLACED IN STEP 4C) AT -Y6- (NB) STA. 36+00 +/- AS DETAILED THROUGH SHEETS TCP-31 THROUGH TCP-44.

G) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 6 OF 7, WEDGE -NBCDRAMP, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -NBCDRAMP- STA. 12+24 +/- TO 13+71 +/- AS DETAILED THROUGH SHEETS TCP-31 THROUGH TCP-44.

BEHIND BARRIER/AWAY FROM TRAFFIC PERFORM THE FOLLOWING:

-- CONSTRUCT THE OUTSIDE WIDENING/PAVED SHOULDER OF I-85 (NB), AND -NBCD- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE FOLLOWING LOCATIONS:

-Y6- (NB) STA. 32+00 +/- TO 36+58 +/-
-NBCD- STA. 30+20 +/- TO 30+51 +/-

-- OBLITERATE AND REMOVE THE EXISTING ENTRANCE RAMP FROM NC 62.

H) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 7, REMOVE THE PORTABLE CONCRETE BARRIER AND CRASH CUSHION ALONG I-85 (NB)(-Y6-) FROM -Y6- (NB) STA. 31+80 +/- TO 41+52 +/- AS DETAILED THROUGH SHEETS TCP-31 THROUGH TCP-44.

I) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3,6, AND 7 OF 7, AND WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON I-85 (NB)(-Y6-), -NBCD-, AND THE ENTRANCE/EXIT RAMPS FOR NC 62 FOR THE INTERMEDIATE TRAFFIC PATTERN TO BE UTILIZED DURING PHASE II CONSTRUCTION. REMOVE AND REPLACE CONFLICTING PAVEMENT MARKINGS AS NECESSARY AS DETAILED THROUGH SHEETS TCP-45 THROUGH TCP-56.

USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 3 OF 9, CLOSE I-85 (NB)(-Y6-) AND SHIFT NB TRAFFIC ON TO THE -NBCD-.

STEP 5: CONSTRUCT THE SOUTHBOUND COLLECTOR/DISTRIBUTOR (-SBCD-) , THE EXIT RAMP FROM I-85 SOUTHBOUND TO NC 62 AND THE ENTRANCE RAMP FROM NC 62 TO I-85 SOUTHBOUND UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS, AND OPEN TO THE INTERMEDIATE PHASE II TRAFFIC PATTERN IN THE FOLLOWING SEQUENCE. (SEE CONSTRUCTION PLANS)

A) USE ROADWAY STANDARD DRAWING 1101.02, SHEET 3, 6, AND 7 OF 7, AND WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON I-85 (SB)(-Y6-) AND THE ENTRANCE/EXIT RAMPS AT NC 62, PLACE ADVANCE WARNING SIGNS AND SHIFT TRAFFIC INTO THE TEMPORARY TRAFFIC PATTERN FROM -Y6- STA. 10+40 +/- TO STA. 50+80 +/- . USE DRUMS TO CLOSE OFF THE OUTSIDE THROUGH LANE OF I-85 (SB) AS DETAILED THROUGH SHEETS TCP-19 THROUGH TCP-30

B) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 OF 7, INSTALL PORTABLE CONCRETE BARRIER AND TEMPORARY CRASH CUSHIONS ALONG I-85 (SB)(-Y6-) AND THE ENTRANCE/EXIT RAMP FROM I-85 (SB) TO NC 62 AS DETAILED THROUGH SHEETS TCP-19 THROUGH TCP-30IN THE FOLLOWING LOCATIONS:

-Y6- (SB) STA. 12+46 +/- TO STA. 18+62 +/-
-Y6- (SB) STA. 28+05 +/- TO STA. 29+11 +/-
-Y6- (SB) STA. 36+90 +/- TO STA. 45.02 +/-
-Y6- (SB) STA. 46+58 +/- TO STA. 49+80 +/-

C) BEHIND BARRIER/AWAY FROM TRAFFIC, CONSTRUCT THE OUTSIDE WIDENING AND PAVED SHOULDER OF I-85 (SB)(-Y6-), -SBCD-, -SBCD- STRUCTURE, THE BEGINNING SPAN OF THE FLYOVER STRUCTURE OVER -SBCD-, -SBCD RAMP-, -RAMPB-, -RAMPC-, -LOOP B-, -LOOP C-, AND INSTALL ROADWAY LIGHTING AT THE -Y6-/NC 62 INTERCHANGE AS SHOWN IN THE LIGHTING PLANS, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS DETAILED THROUGH SHEETS TCP-19 THROUGH TCP-30 IN THE FOLLOWING LOCATIONS:

-Y6- (SB) STA. 13+39 +/- TO STA. 18+52 +/-
-Y6- (SB) STA. 37+60 +/- TO STA. 49+70 +/-
-SBCD- STA. 10+00 +/- TO STA. 28+43 +/-
-RAMP B- STA. 10+00 +/- TO STA. 11+00 +/-
-RAMP C- STA. 14+60 +/- TO STA. 15+60 +/-

D) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3 AND 7 OF 7, REMOVE PORTABLE CONCRETE BARRIER AND CRASH CUSHIONS AS DETAILED THROUGH SHEETS TCP-31 THROUGH TCP-44 IN THE FOLLOWING LOCATIONS:

-Y6- (SB) STA. 12+46 +/- TO STA. 18+62 +/-
-Y6- (SB) STA. 28+05 +/- TO STA. 29+11 +/-
-Y6- (SB) STA. 46+58 +/- TO STA. 49+80 +/-

NOTE: THE CONTRACTOR SHALL COMPLETE AREA 3, PHASE 1, STEP 6 IN 30 CONSECUTIVE CALENDAR DAYS. (SEE SPECIAL PROVISIONS)

STEP 6: COMPLETE CONSTRUCTION OF -SBCD- AND -SBCD RAMP- ACCORDING TO THE FOLLOWING SEQUENCE:

A) INSTALL OFF-SITE DETOUR SIGNING. CLOSE THE EXISTING SB EXIT RAMP FROM I-85 TO NC 62 AND PLACE TRAFFIC ON THE OFF-SITE DETOUR AS DETAILED ON SHEET TCP-43.

B) INSTALL PCB ON -Y6- FROM STA. 33+70 +/- AND TIE INTO EXISTING PCB AT -Y6- STA. 37+50 +/- AS DETAILED ON SHEET TCP-44.

C) CONSTRUCT THE FOLLOWING UP THROUGH THE FINAL LAYER OF THE SURFACE COURSE AND PLACE TEMPORARY MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) AS DETAILED ON SHEET TCP-44.

-Y6- (SB) STA. 34+30 +/- TO STA. 37+60 +/-
-SBCD- STA. 28+43 +/- TO STA. 31+72 +/-
-SBCD RAMP- STA. 10+00 +/- TO STA. 13+32 +/-

D) USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3, 6 AND 7 OF 7, AND WORKING IN A CONTINOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, INSTALL ADVANCE WARNING SIGNS ACCORDING TO SIGNING PLANS AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (TEMPORARY RAISED) ON -SBCD- AND -SBCD RAMP- AND SHIFT TRAFFIC EXITING TO NC 62 ONTO THE NEWLY COMPLETED -SBCD-. MAINTAIN ONE LANE OF TRAFFIC ON -SBCD- AND USE DRUMS AND TYPE III BARRICADES TO CLOSE ACCESS FROM -SBCD- TO THE PROPOSED -RAMP B-, -RAMP C-, -LOOP B- AND -LOOP C- AS DETAILED ON SHEET TCP-45 THROUGH TCP-56.

STEP 7: OBLITERATE AND REMOVE EXISTING SB EXIT RAMP FROM I-85 TO NC 62 AS DETAILED ON SHEET TCP-44.

STEP 8: USING ROADWAY STANDARD DRAWING 1101.02, SHEET 3,6, AND 7 OF 7, AND WORKING IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD, PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON I-85 (SB)(-Y6-), -SBCD- AND -SBCD RAMP- FOR NC 62 FOR THE INTERMEDIATE TRAFFIC PATTERN TO BE UTILIZED DURING PHASE II CONSTRUCTION. REMOVE AND REPLACE CONFLICTING PAVEMENT MARKINGS AS NECESSARY.

USING ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 3 OF 9, CLOSE I-85 (SB) (-Y6-) AND SHIFT SB TRAFFIC ON TO THE -SBCD-. MAINTAIN TWO LANES OF TRAFFIC ON -SBCD- AND USE DRUMS AND TYPE III BARRICADES TO CLOSE ACCESS TO THE PROPOSED -RAMP B-, -RAMP C-, -LOOP B- AND -LOOP C- FROM -SBCD- AS DETAILED ON SHEET TCP-45 THROUGH TCP-56.

STEP 9: COMPLETE CONSTRUCTION BEGUN IN PHASE I STEP 3

PHASE II

NOTE: STEP 1 AND 2 MAY BE PERFORMED CONCURRENTLY:

STEP 1: AWAY FROM TRAFFIC, PERFORM THE FOLLOWING: (SEE TCP-45 THROUGH TCP-56)

-- CONSTRUCT THE PROPOSED STRUCTURE AND APPROACHES ON I-85 (NB)(-Y6-) OVER PROPOSED US 311 (-L-) AND PLACE FINAL PAVEMENT MARKINGS (POLYUREA) AND MARKERS (SNOWPLOWABLE) IN THE FINAL TRAFFIC PATTERN FROM -Y6 NB- STA. 26+00 +/- TO STA. 28+00 +/-.

-- CONSTRUCT THE PROPOSED STRUCTURE AND APPROACHES ON I-85 (SB)(-Y6-) OVER PROPOSED US 311 (-L-) AND PLACE FINAL PAVEMENT MARKINGS (POLYUREA) AND MARKERS (SNOWPLOWABLE) IN THE FINAL TRAFFIC PATTERN FROM -Y6 SB- STA. 26+00 +/- TO STA. 28+00 +/-.

-- COMPLETE CONSTRUCTION OF THE FLYOVER STRUCTURE OVER I-85 (-Y6-) FROM -FLY- STA. 18+82 +/- -L- TO STA. 19+74 +/-.

STEP 2: AWAY FROM TRAFFIC, CONSTRUCT PROPOSED US 311 (-L-) EASTBOUND AND WESTBOUND UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM -L- STA. 51+90 +/- TO STA. 52+85 +/-. (SEE CONSTRUCTION PLANS AND SHEET TCP-45 THROUGH TCP-56)

STEP 3: RE-OPEN I-85 TO THROUGH TRAFFIC.

PHASE III

STEP 1: USING ROADWAY STANDARD DRAWINGS 1101.02, SHEET 3 & 5 OF 7 AS NEEDED, PLACE FINAL LAYER OF SURFACE COURSE THROUGHOUT AREA 3 AND ALONG PROPOSED US 311 (-L-) AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS.

STEP 2: OPEN I-85 (-Y6-), COLLECTOR DISTIBUTORS AND RAMPS AT NC 62 INTERCHANGE TO TRAFFIC AND REMOVE ALL TRAFFIC CONTROL DEVICES.

APPROVED: J. W. Woolard DATE: 5/5/06

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

AREA 3 PHASING

SCALE:	NONE
DATE:	2006 APR 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 06:33
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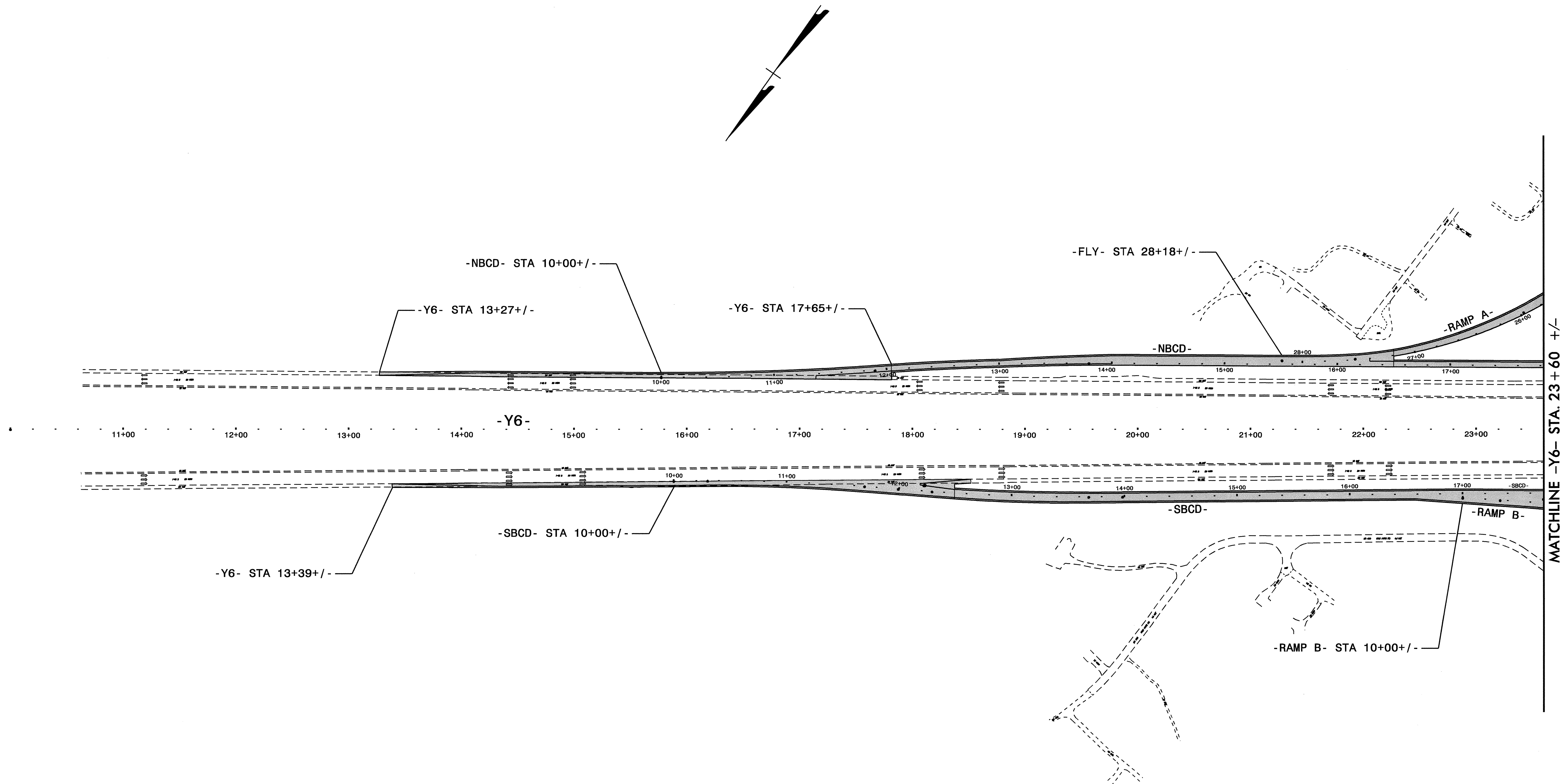
csmazingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-16



APPROVED: J.W. Woolard, Jr. DATE: 5/5/06

SEAL

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

AREA 3 PHASE 1 OVERVIEW

SCALE:	NONE
DATE:	2006 APR 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 08:27
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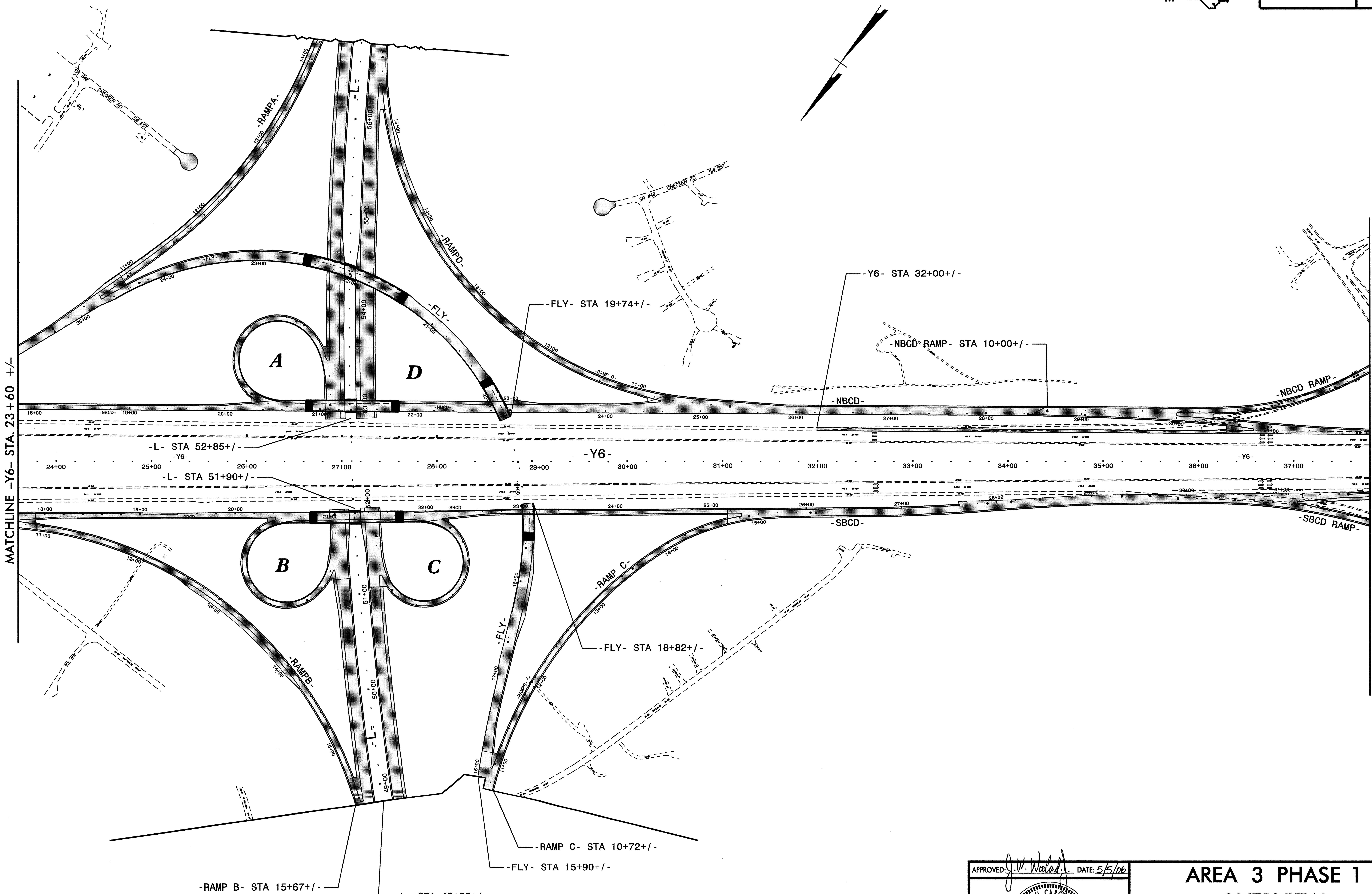
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-17

METRIC



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csmozingo AT WZTC224097

APPROVED: J.W. Woolard Jr. DATE: 5/5/06

SEAL

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

AREA 3 PHASE 1 OVERVIEW

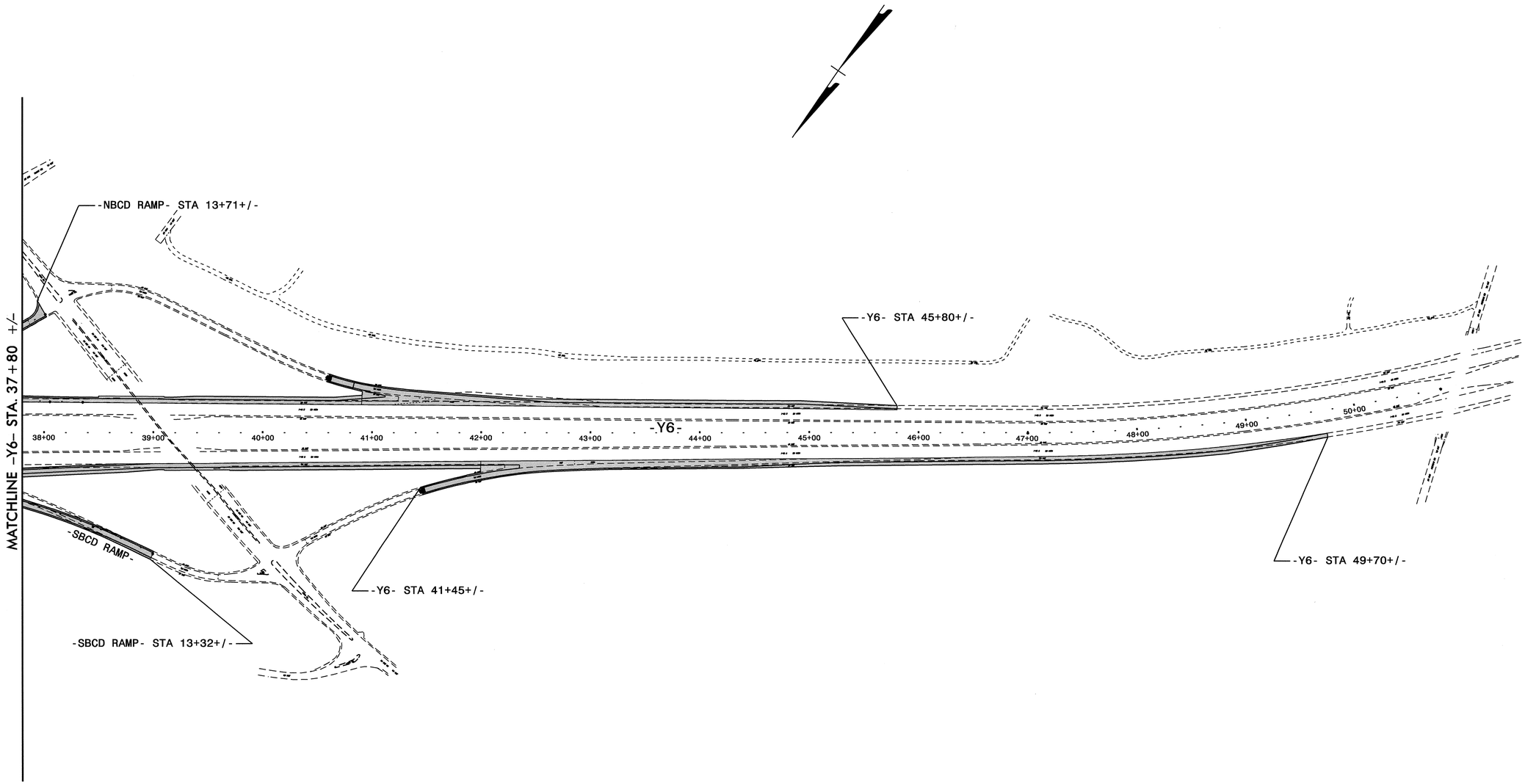
SCALE:	NONE
DATE:	2006 APR 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-18



APPROVED: J.W. Woolard DATE: 5/5/06

SEAL

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

AREA 3 PHASE 1 OVERVIEW

SCALE:	NONE
DATE:	2006 APR 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

04-MAY-2006 08:27
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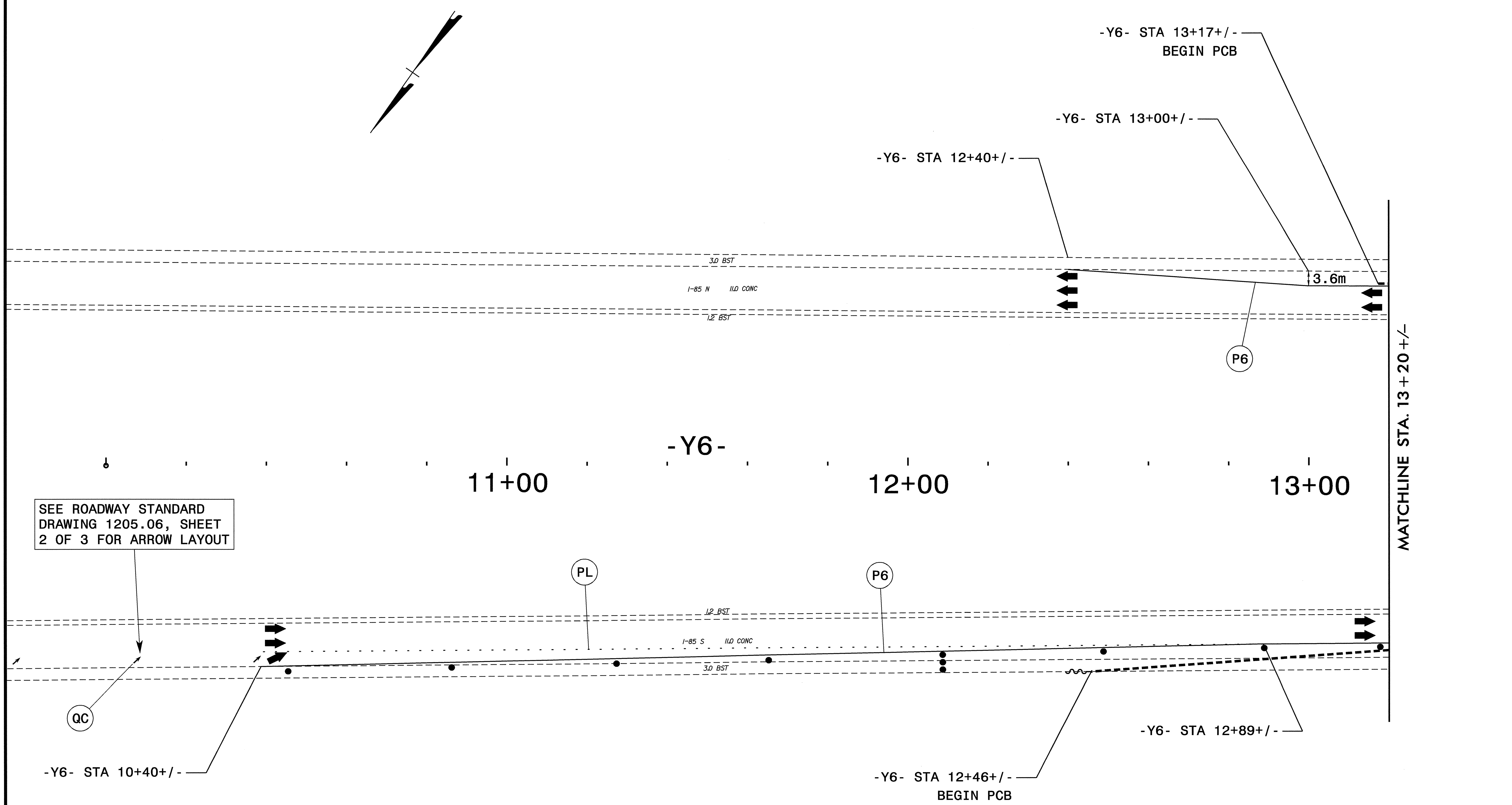
csmozingo AT WZTC224097

METRIC

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-19

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



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csmozingo AT WZTC224097

APPROVED: J. W. Woolard Jr. DATE: 5/5/06

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

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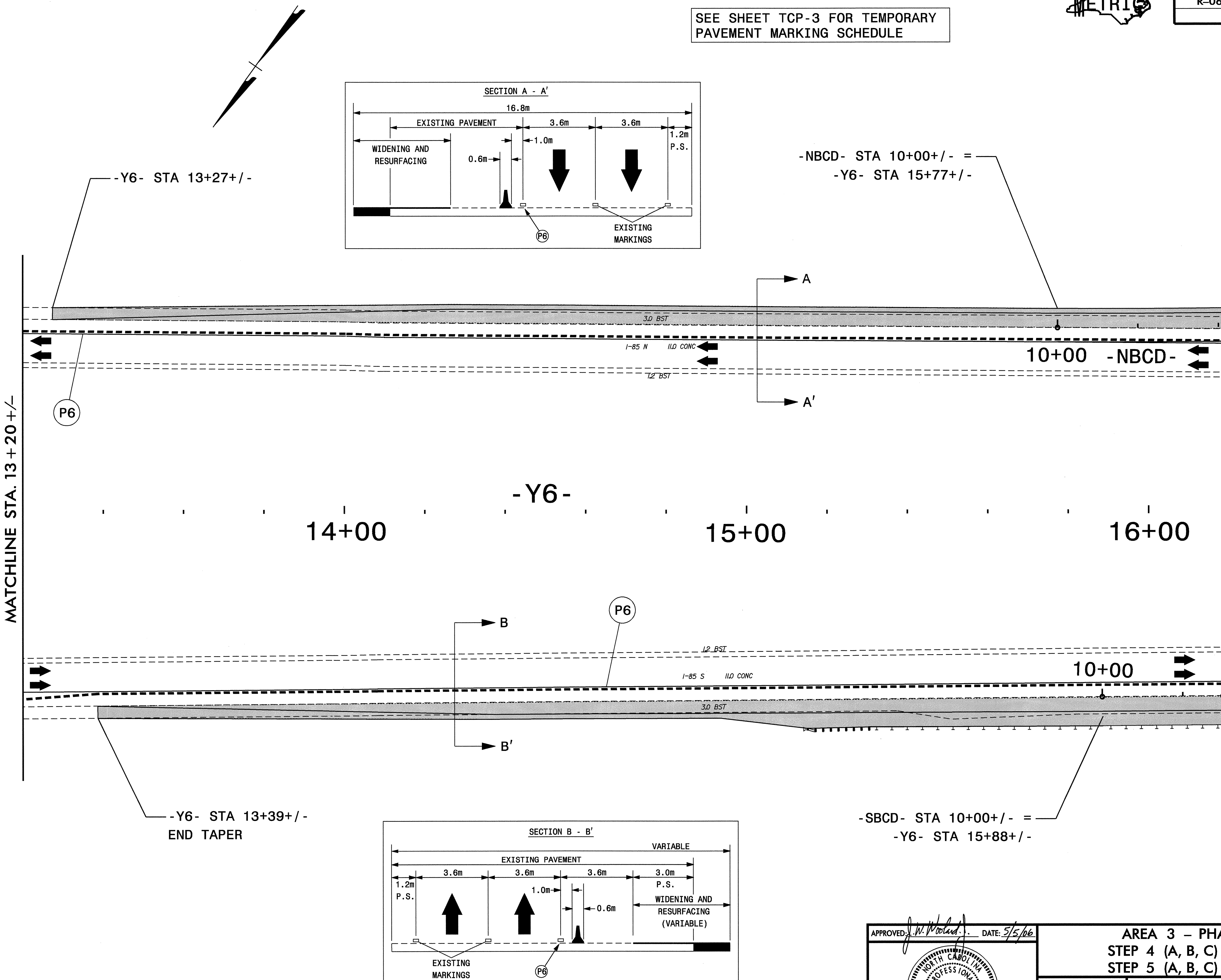
PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-20

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: J.W. Woolard Jr. DATE: 5/5/06

SEAL

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 08:28
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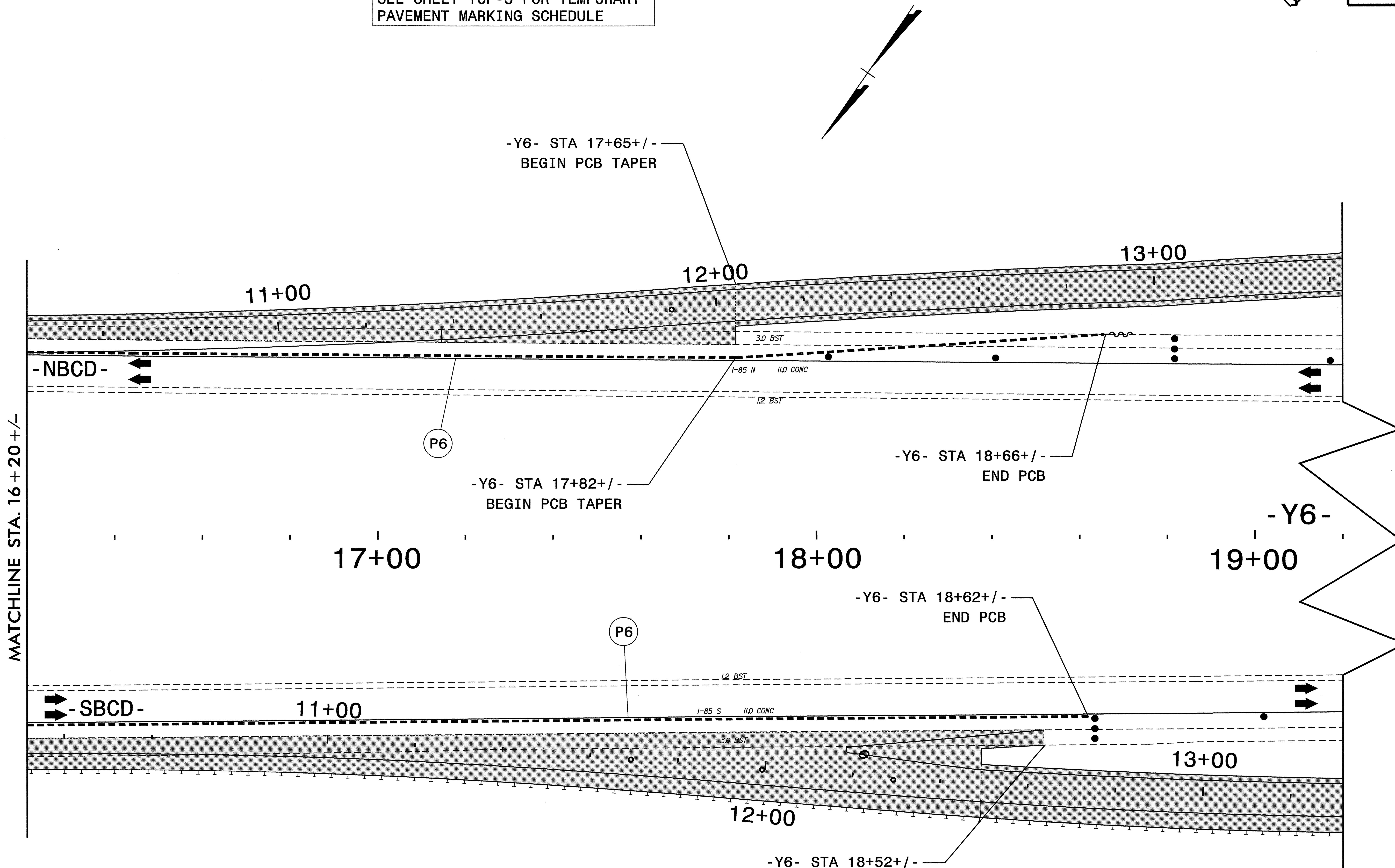
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-21

METRIC

SEE SHEET TCP-3 FOR TEMPORARY
PAVEMENT MARKING SCHEDULE



APPROVED: J.W. Woolard, Jr. DATE: 5/5/06

SEAL

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 08:28
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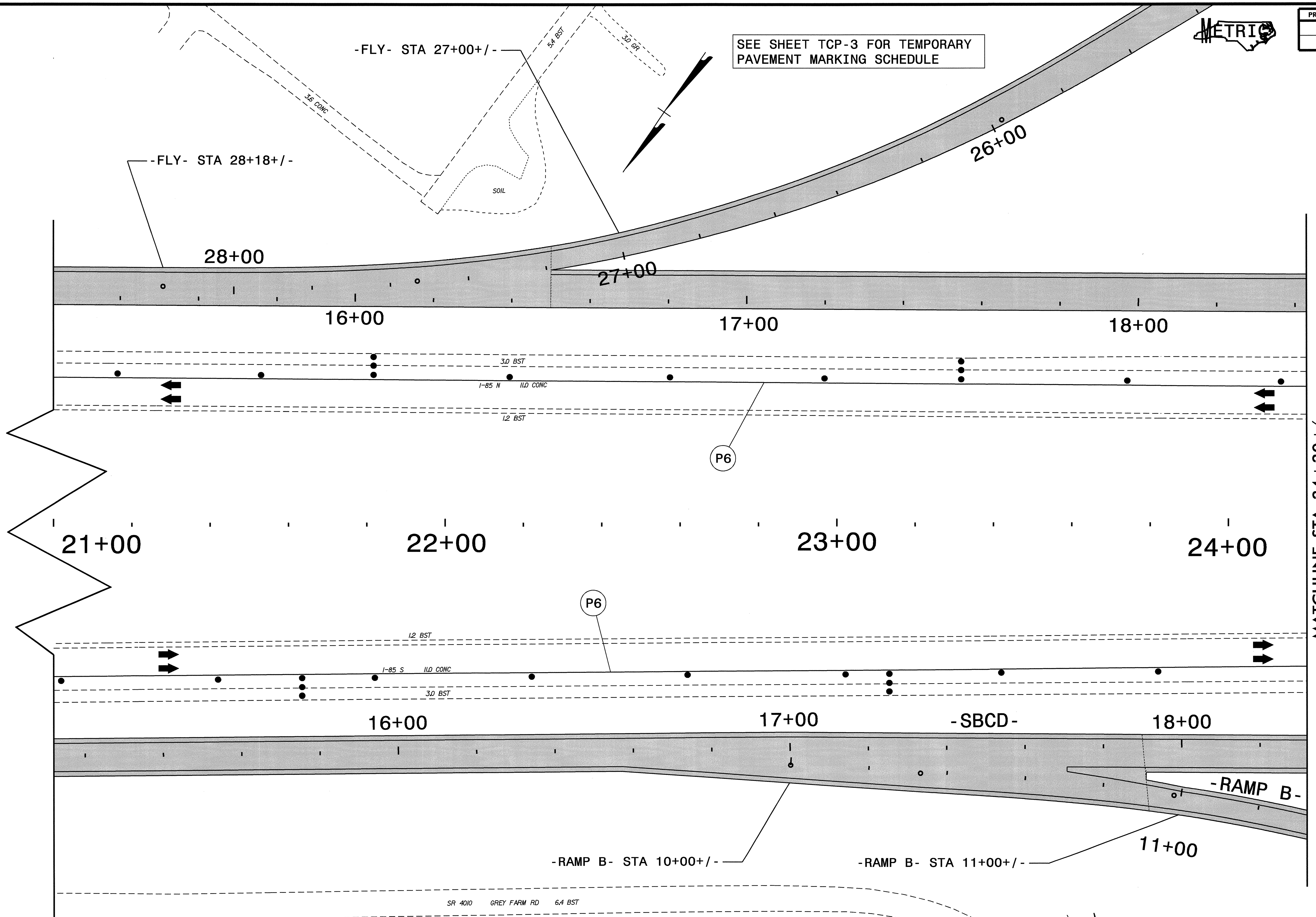
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-22



APPROVED: J.W. Woolard Jr. DATE: 5/5/06

SEAL

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 08:28
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csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 1A	TCP-23

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

A

-LOOP A- STA 10+60+/-

-LOOP A- STA 10+00+/-

-NBCD-

19+00

20+00

21+00

53+00

3.6 BST

I-85 N II.0 CONC

12 BST

3.6 BST

I-85 N II.0 CONC

12 BST

P6

-Y6-

-L-

25+00

26+00

27+00

MATCHLINE STA. 24+20+/-

MATCHLINE STA. 27+44+/-

P6

12 BST

I-85 S II.0 CONC

3.0 BST

12 BST

I-85 S II.0 CONC

3.6 BST

52+00

19+00

20+00

21+00

-SBCD-

-LOOP B- STA 12+94+/-

-LOOP B- STA 12+40+/-

12+00

B

APPROVED: J.W. Woolard DATE: 5/5/06

SEAL

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

REVISIONS

CADD FILE

04-MAY-2006 08:28
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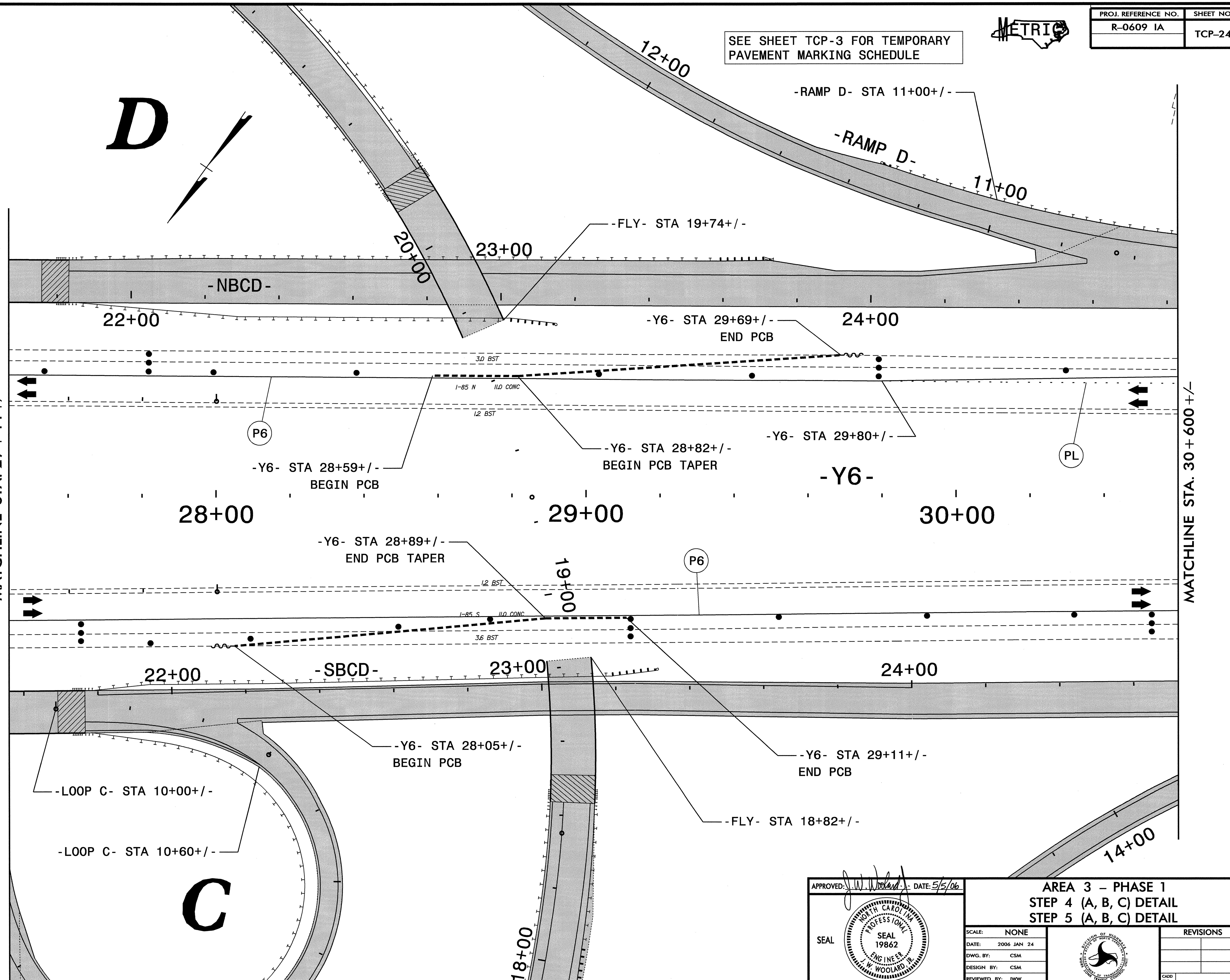
csmazingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-24



APPROVED: J. W. Woolard, Jr. DATE: 5/5/06

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

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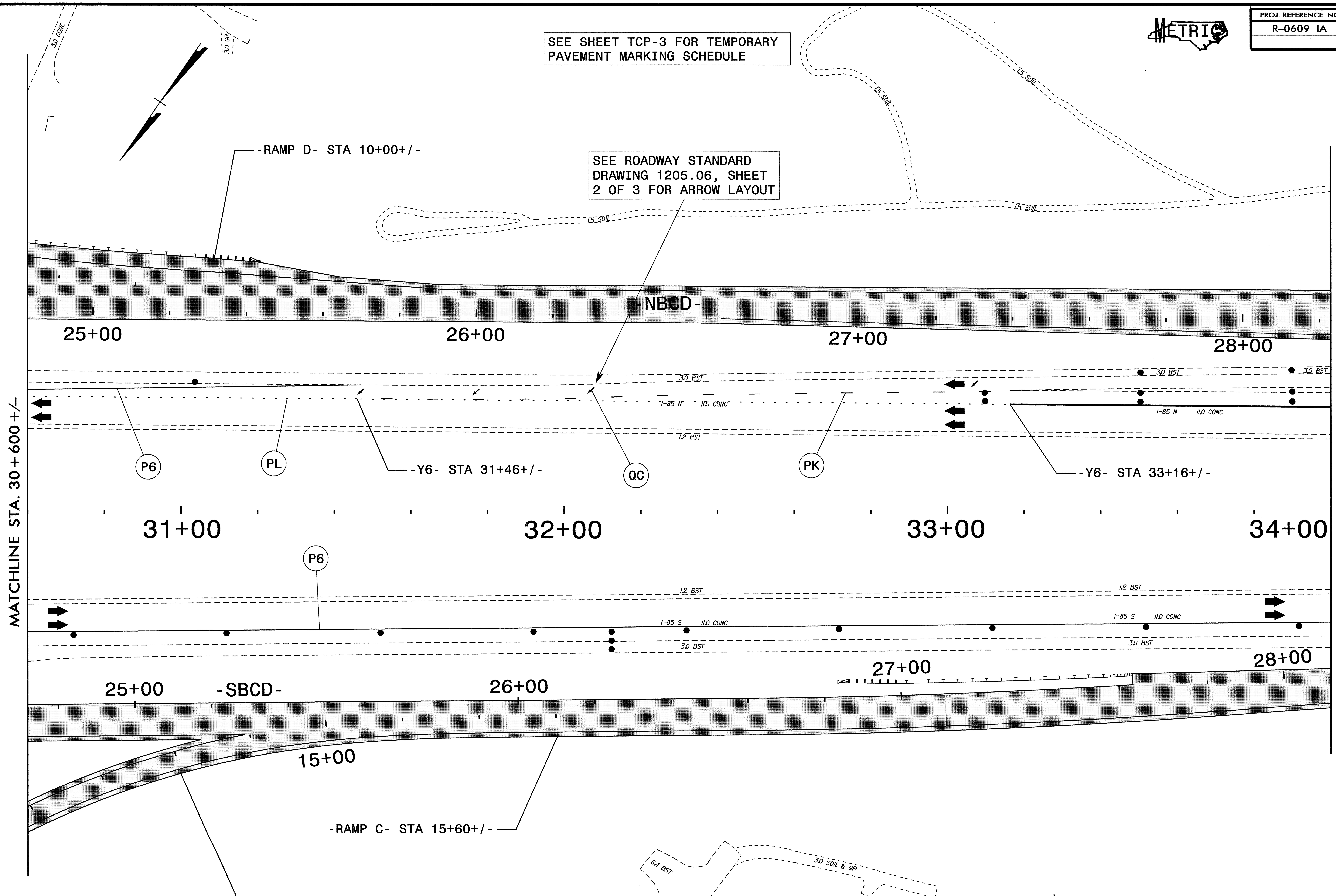
csmozingo AT WZTC224097

METRIC



APPROVED: J.W. Woolard DATE: 5/5/06

SEAL

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 APR 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

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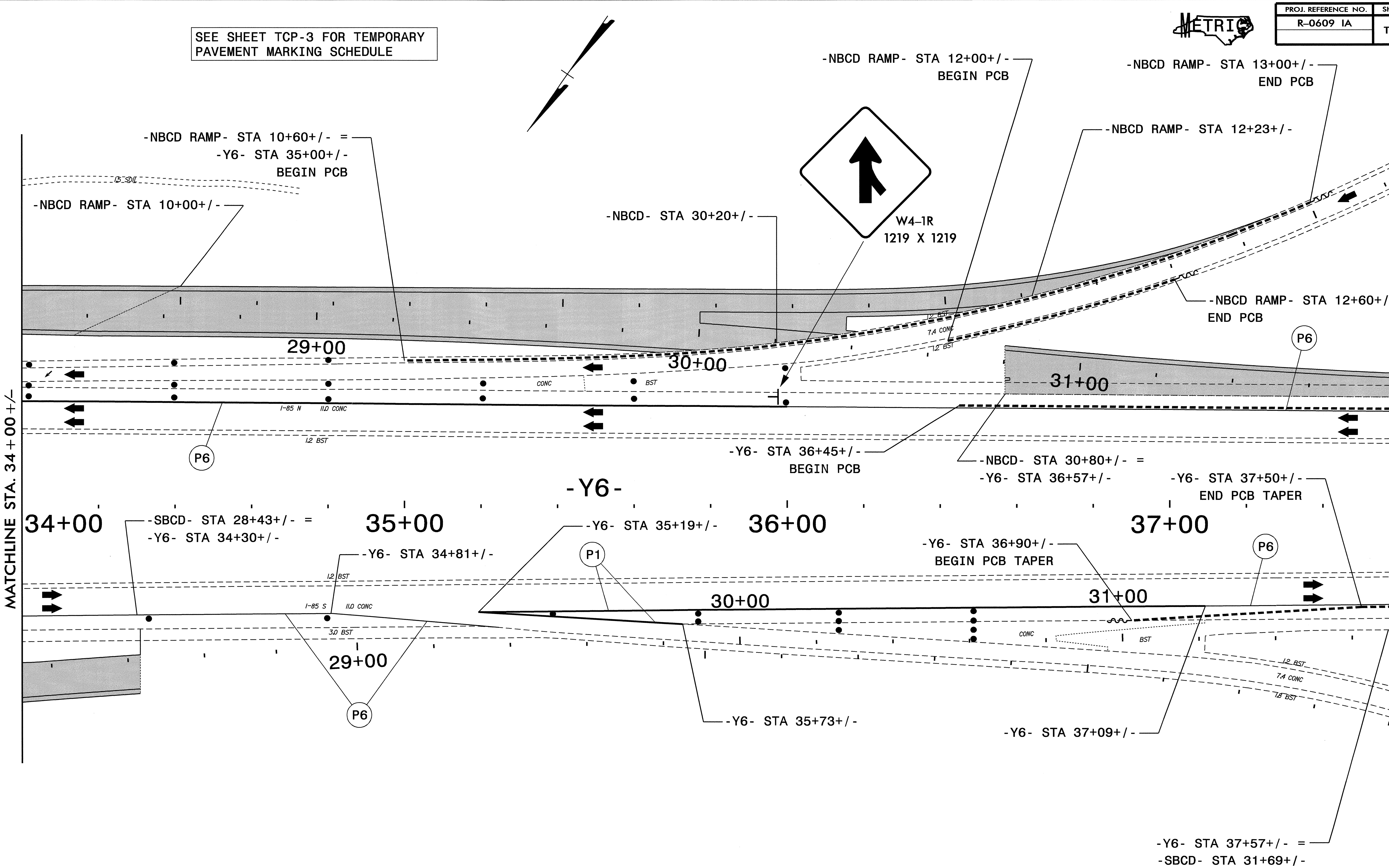
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-26

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: J. W. Woolard DATE: 5/5/06

SEAL

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

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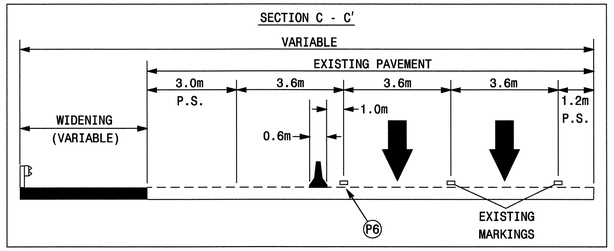
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-27

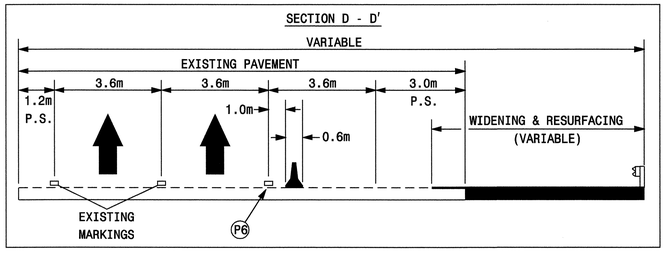
METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

SECTION C - C'



SECTION D - D'



APPROVED: J. W. Woolard DATE: 5/5/06

SEAL

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 APR 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

REVISIONS

CADD FILE

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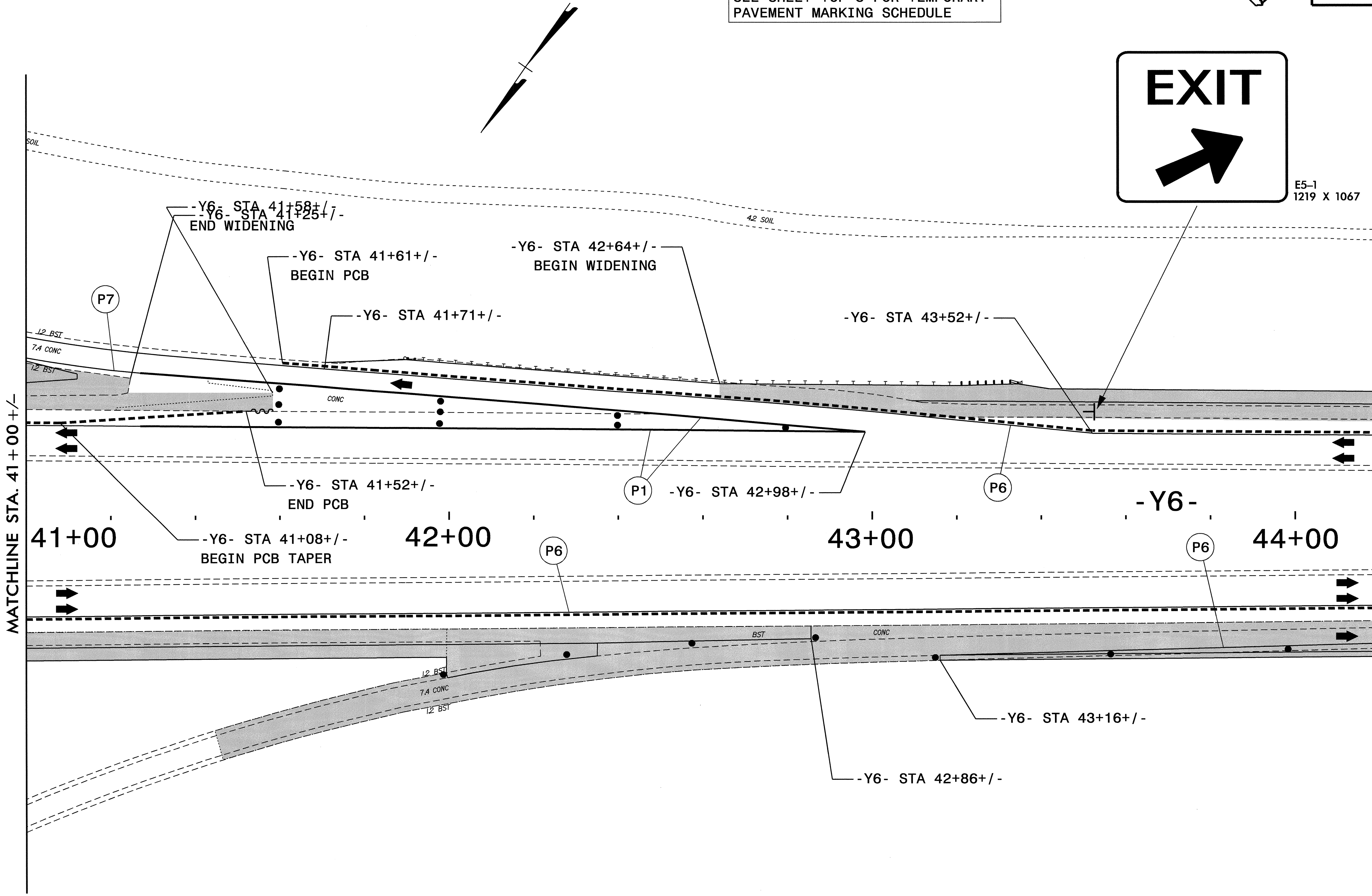
csmazingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-28

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



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csmozingo AT WZTC224097

APPROVED: J. W. Woolard DATE: 5/5/06

SEAL

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

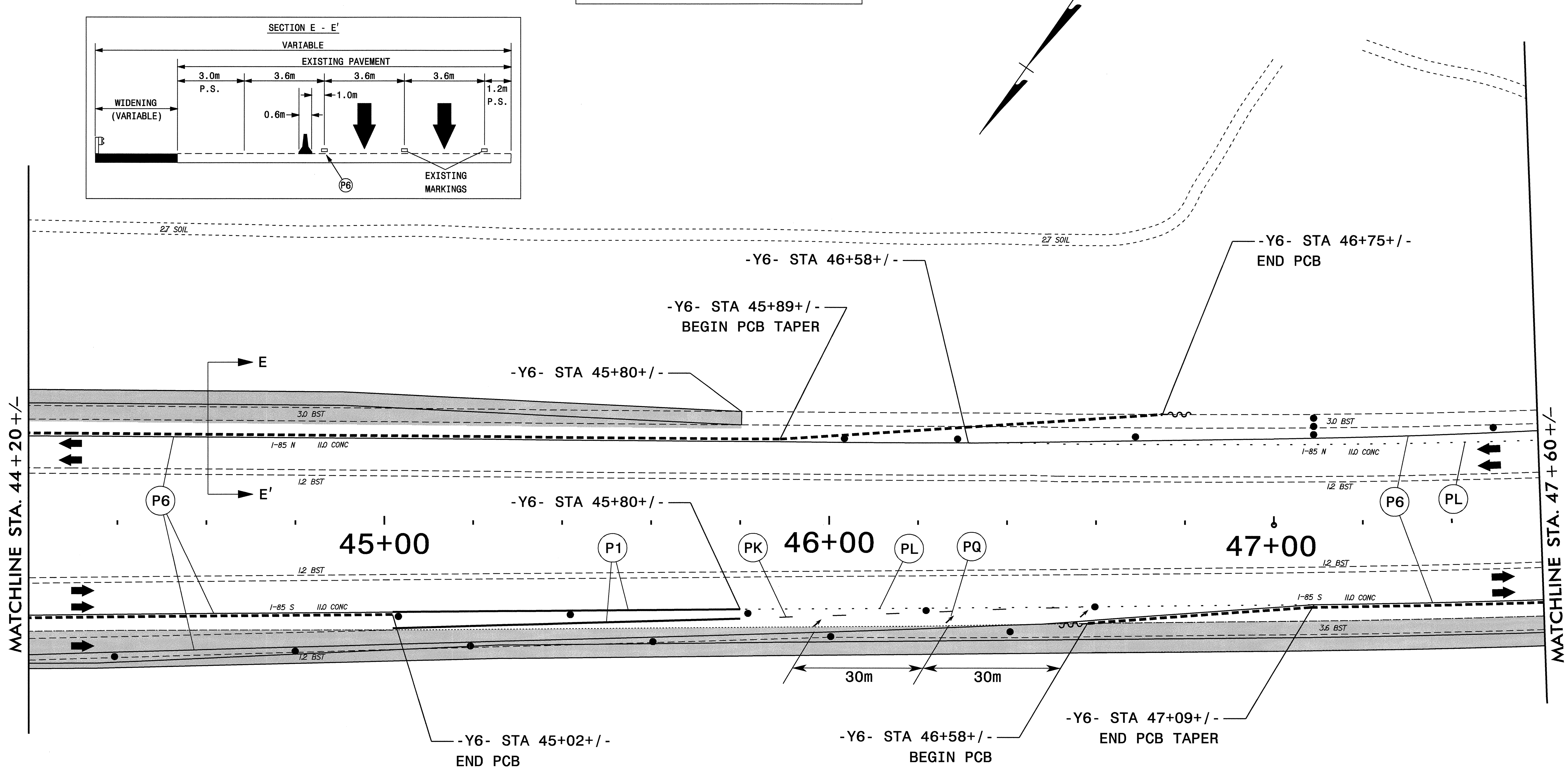
REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-29

METRIC

SEE SHEET TCP-3 FOR TEMPORARY
PAVEMENT MARKING SCHEDULE



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csmozingo AT WZTC224097

APPROVED: J.W. Woolard DATE: 5/5/06

SEAL

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 APR 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

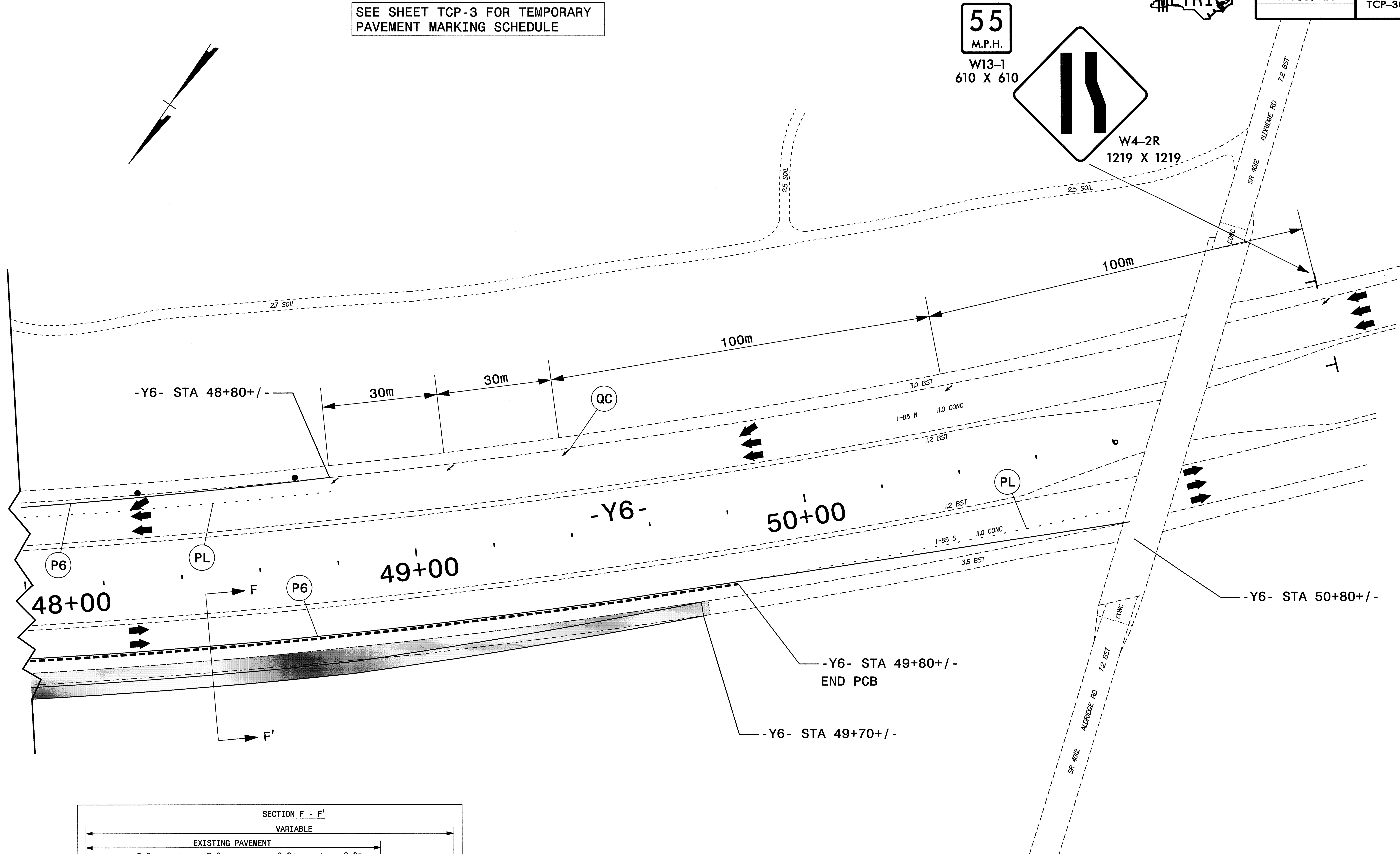
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

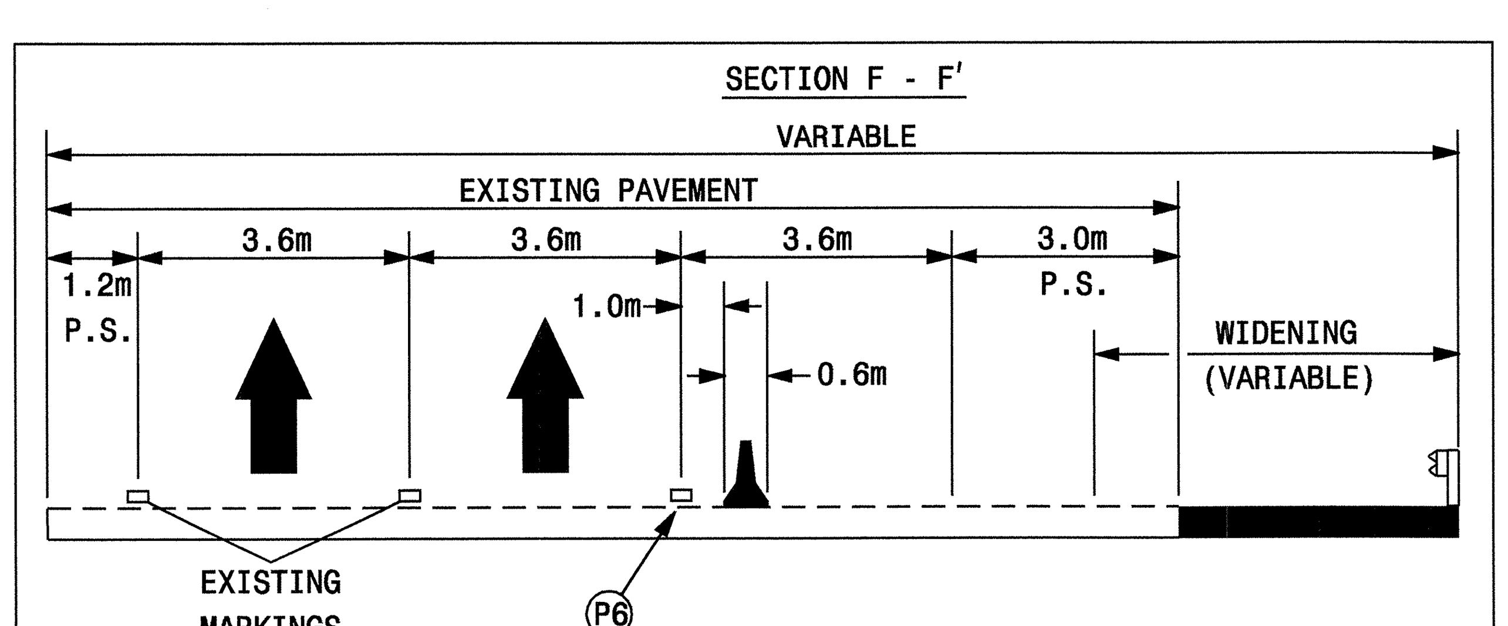
REVISIONS

CADD FILE

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE





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csmozingo AT WZTC224097

APPROVED: J. W. Woolard DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 1
STEP 4 (A, B, C) DETAIL
STEP 5 (A, B, C) DETAIL

SCALE:	NONE
DATE:	2006 APR 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

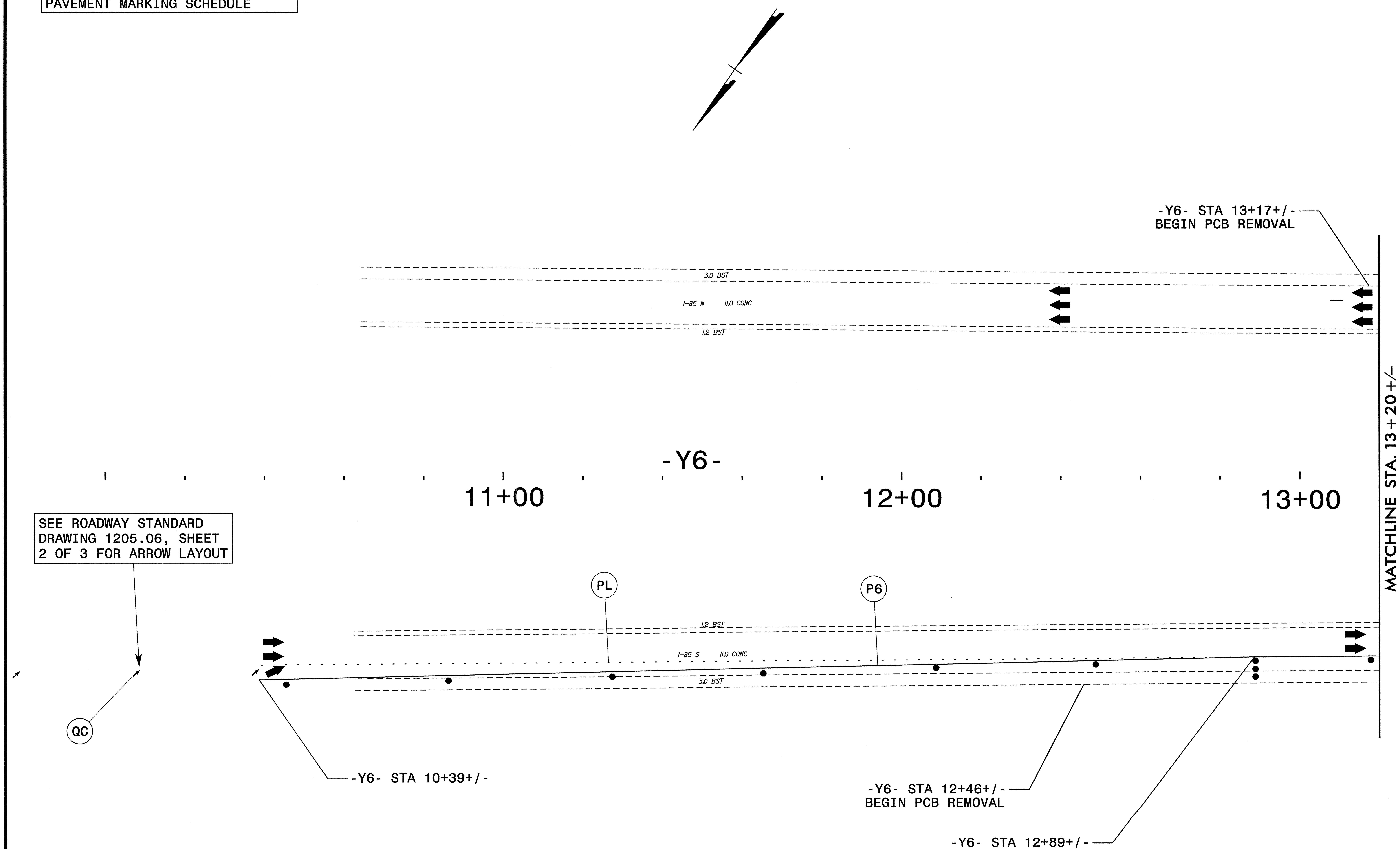
CADD FILE

SEE SHEET TCP-3 FOR TEMPORARY
PAVEMENT MARKING SCHEDULE

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-31

METRIC

SEE ROADWAY STANDARD
DRAWING 1205.06, SHEET
2 OF 3 FOR ARROW LAYOUT



APPROVED: J. W. Woolard DATE: 5/8/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 13:51
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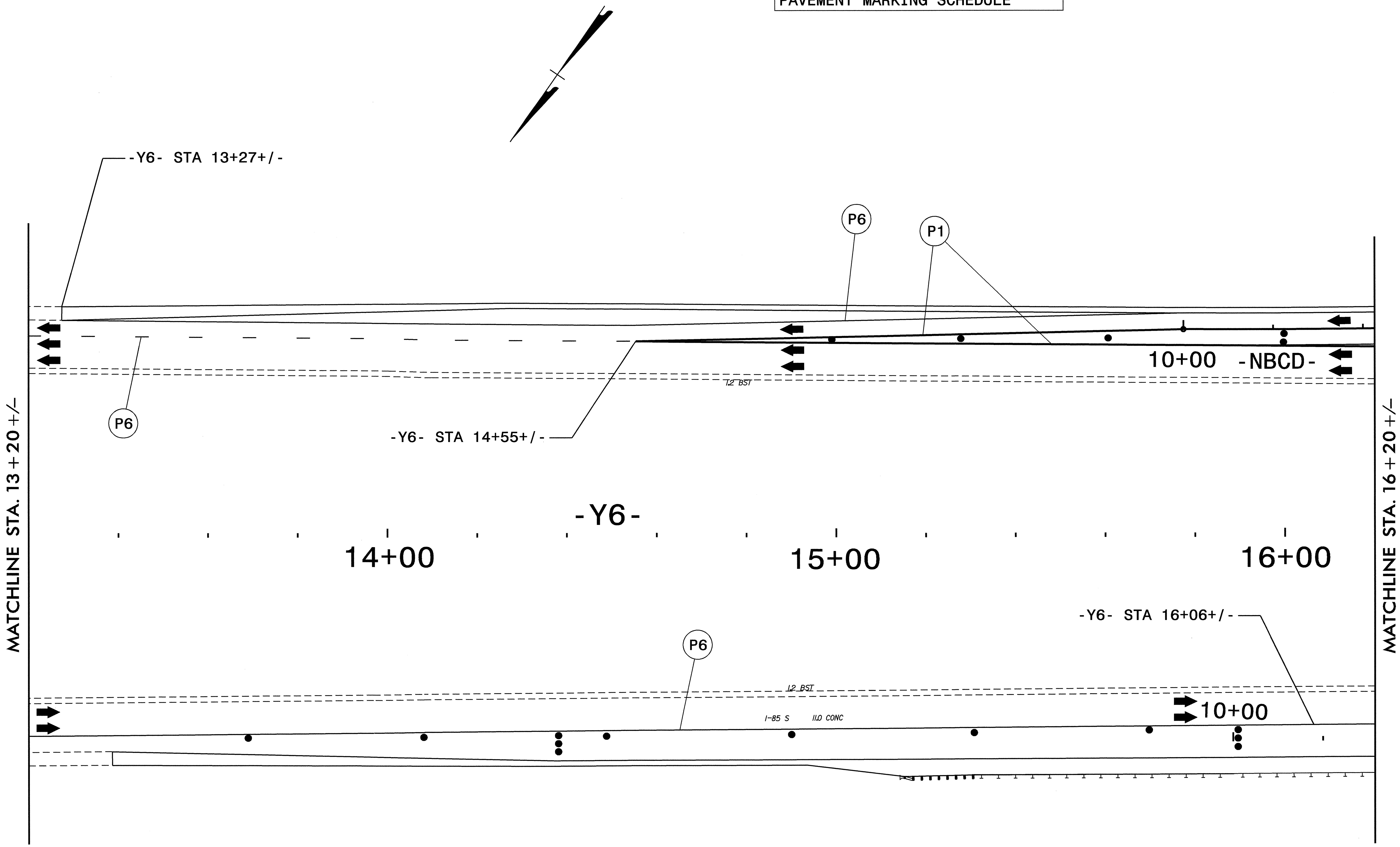
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-32

METRIC

SEE SHEET TCP-3 FOR TEMPORARY
PAVEMENT MARKING SCHEDULE



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csmozingo AT WZTC224097

APPROVED: J. W. Woolard Jr. DATE: 5/8/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5 DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

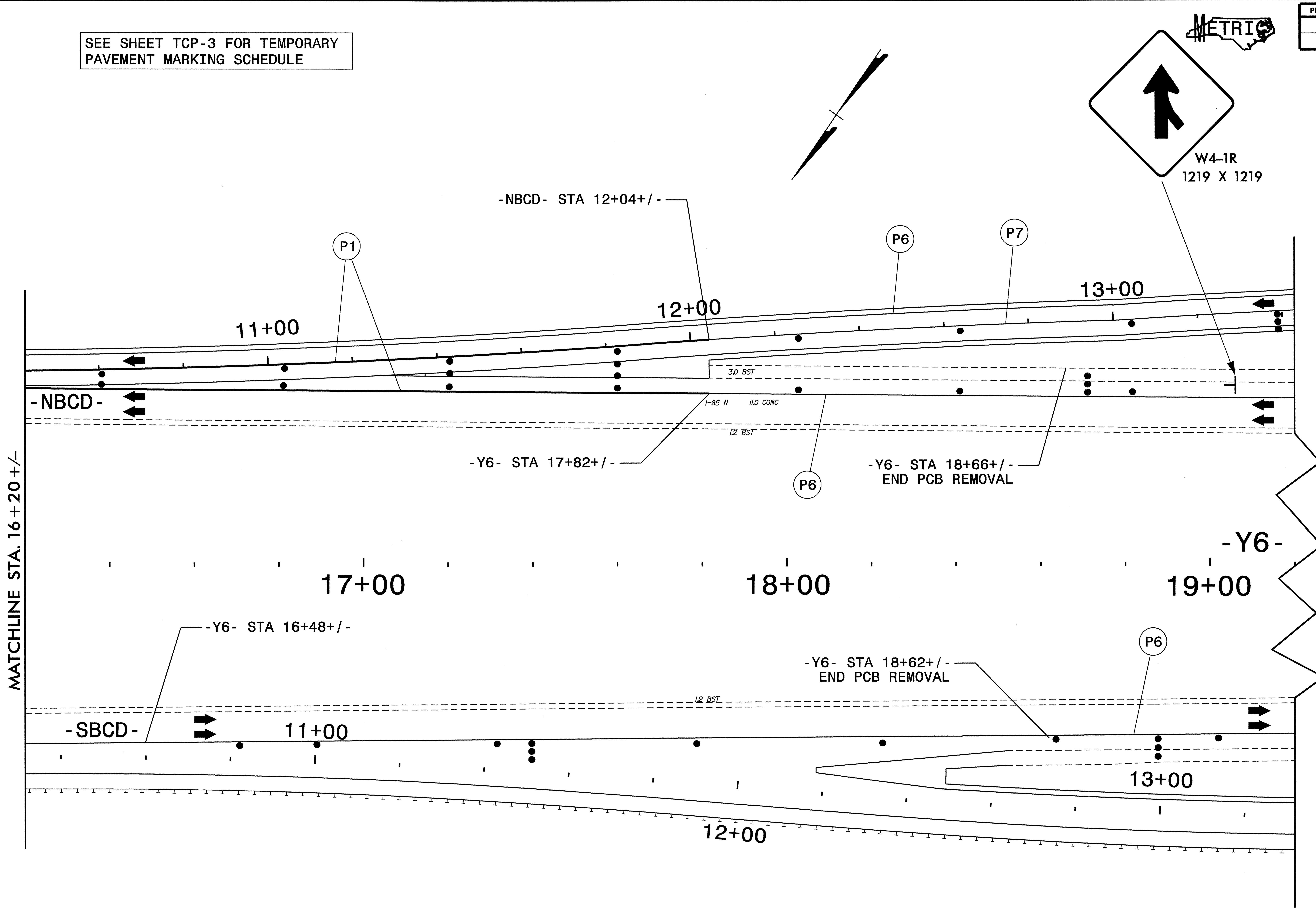
DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-33



APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 MAR 22
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS	
CADD FILE	

04-MAY-2006 13:51
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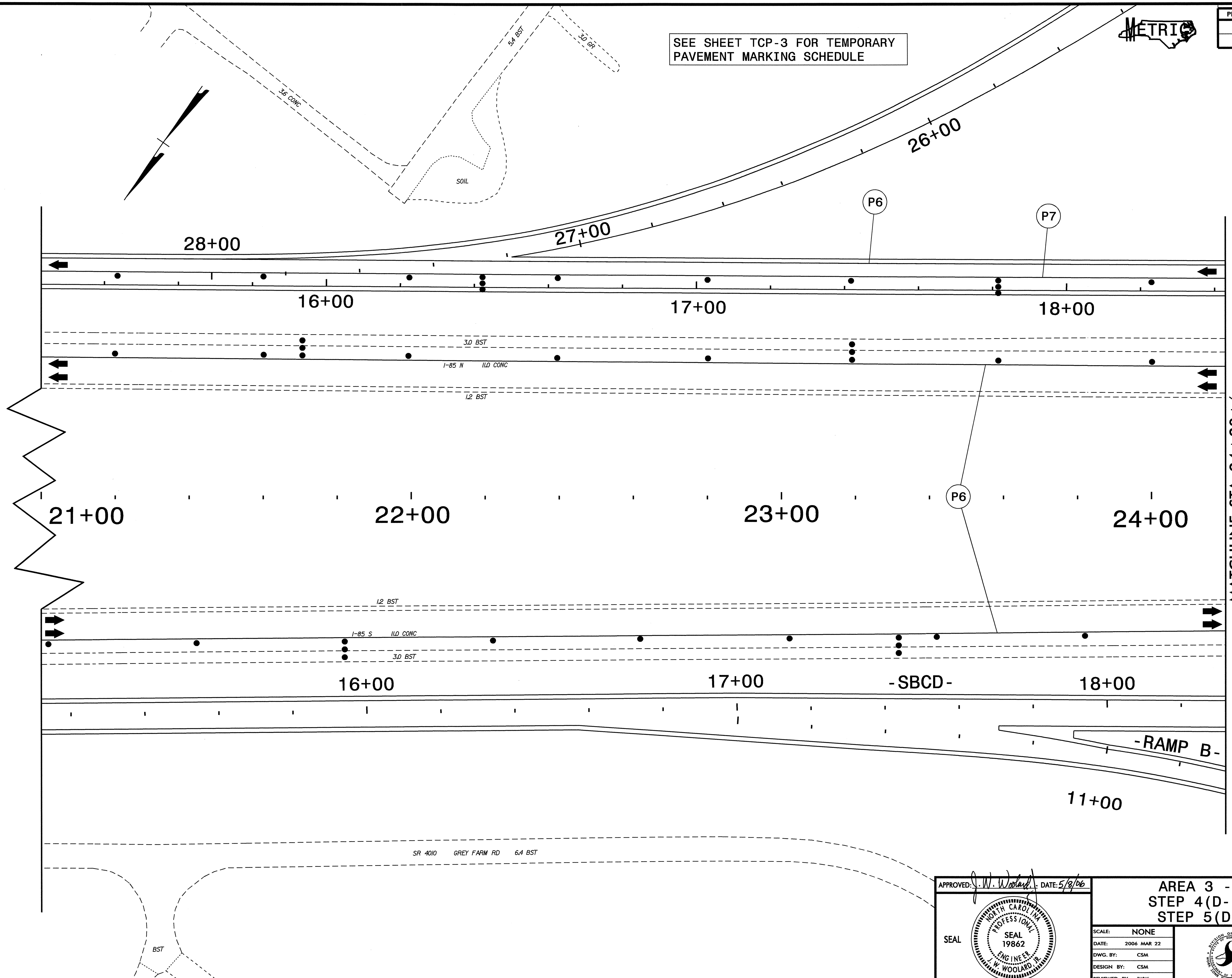
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-34

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: J. W. Woolard DATE: 5/8/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 MAR 22
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 13:51
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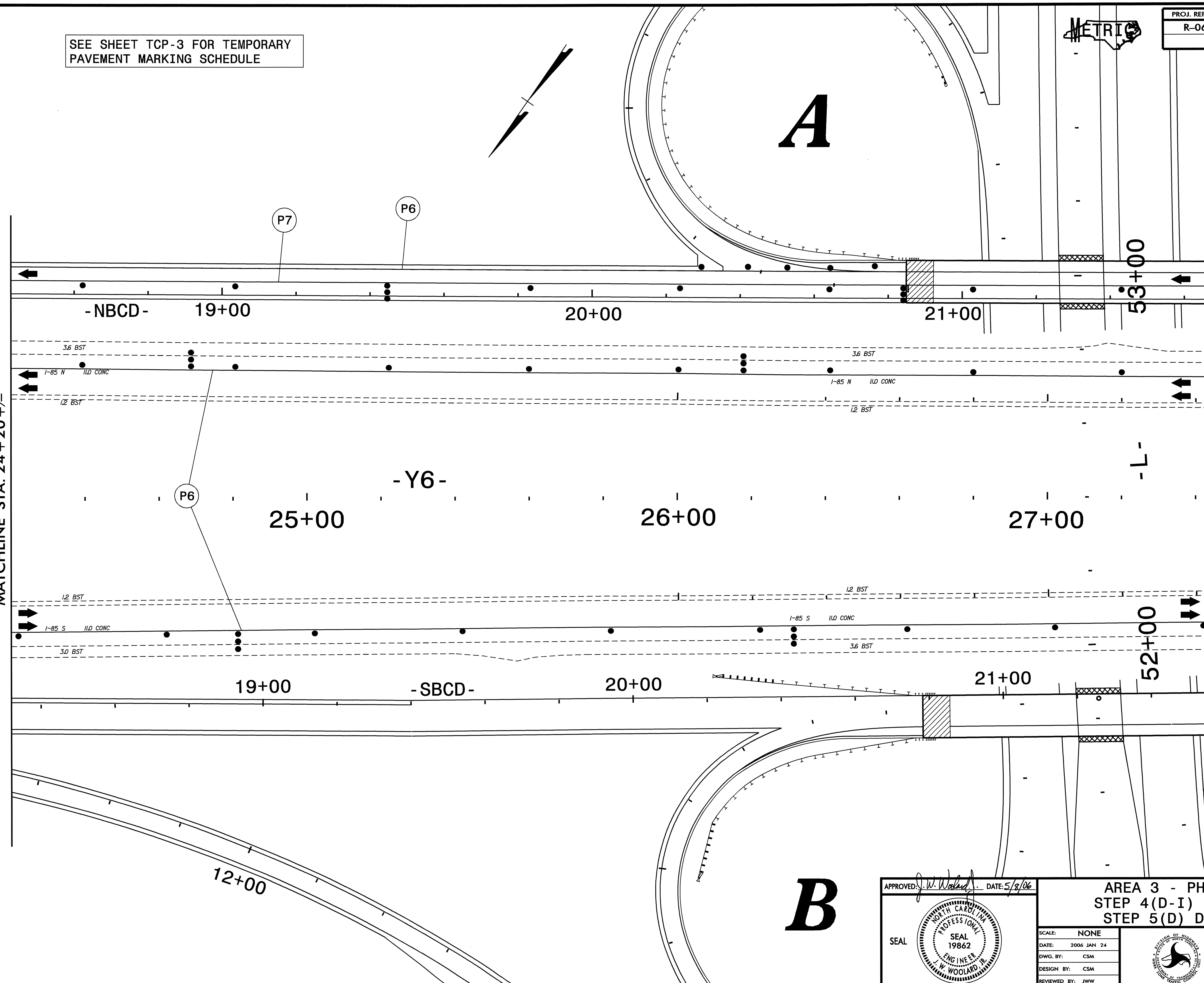
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-35

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

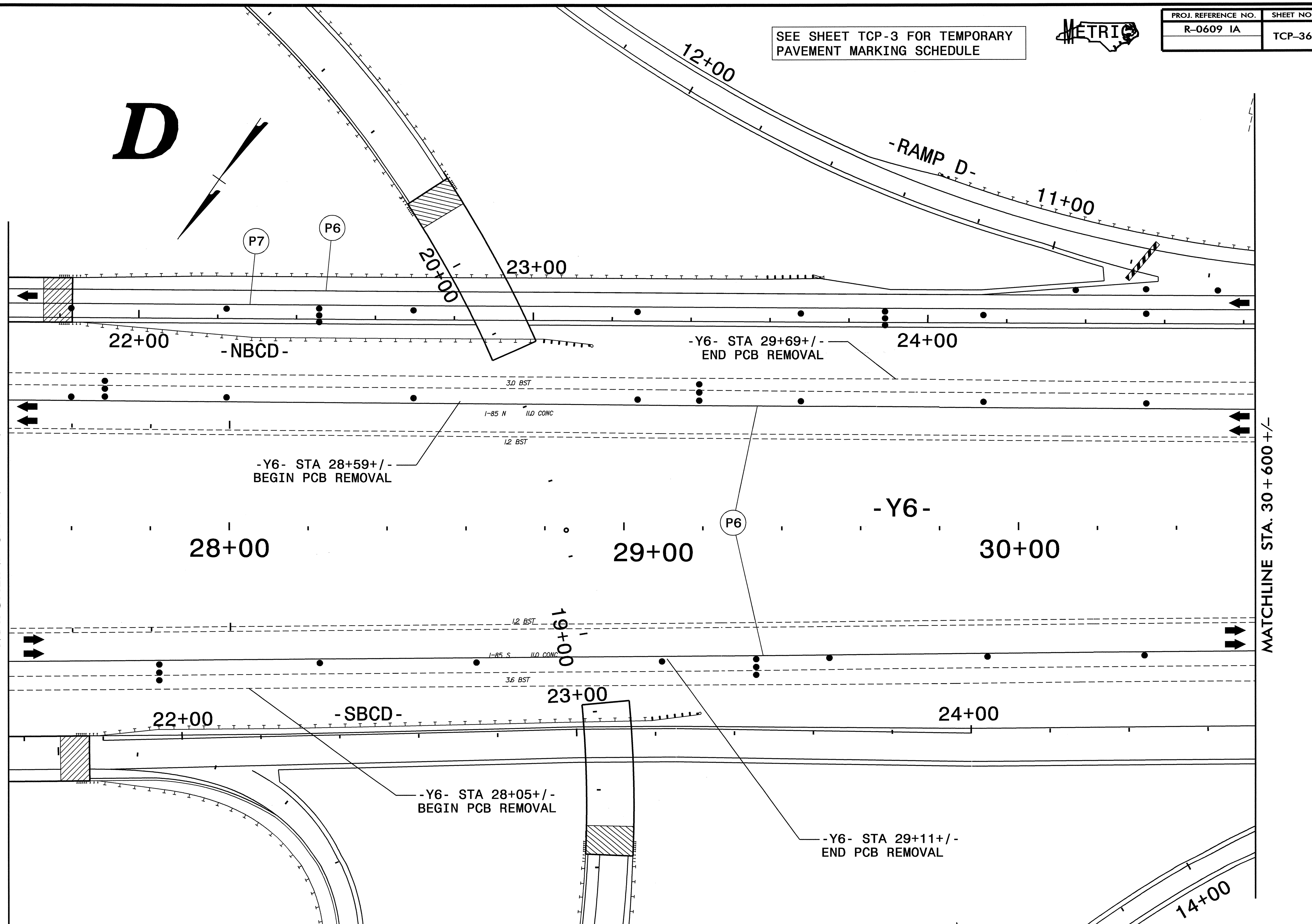
CADD FILE

04-MAY-2006 13:51
\\ets-ccfs03\r0609ia$\traffic\trafficcontrol\tcp\r0609ia_tc_tcp35_area3_p1_second_part.dgn
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-36

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 APR 20
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

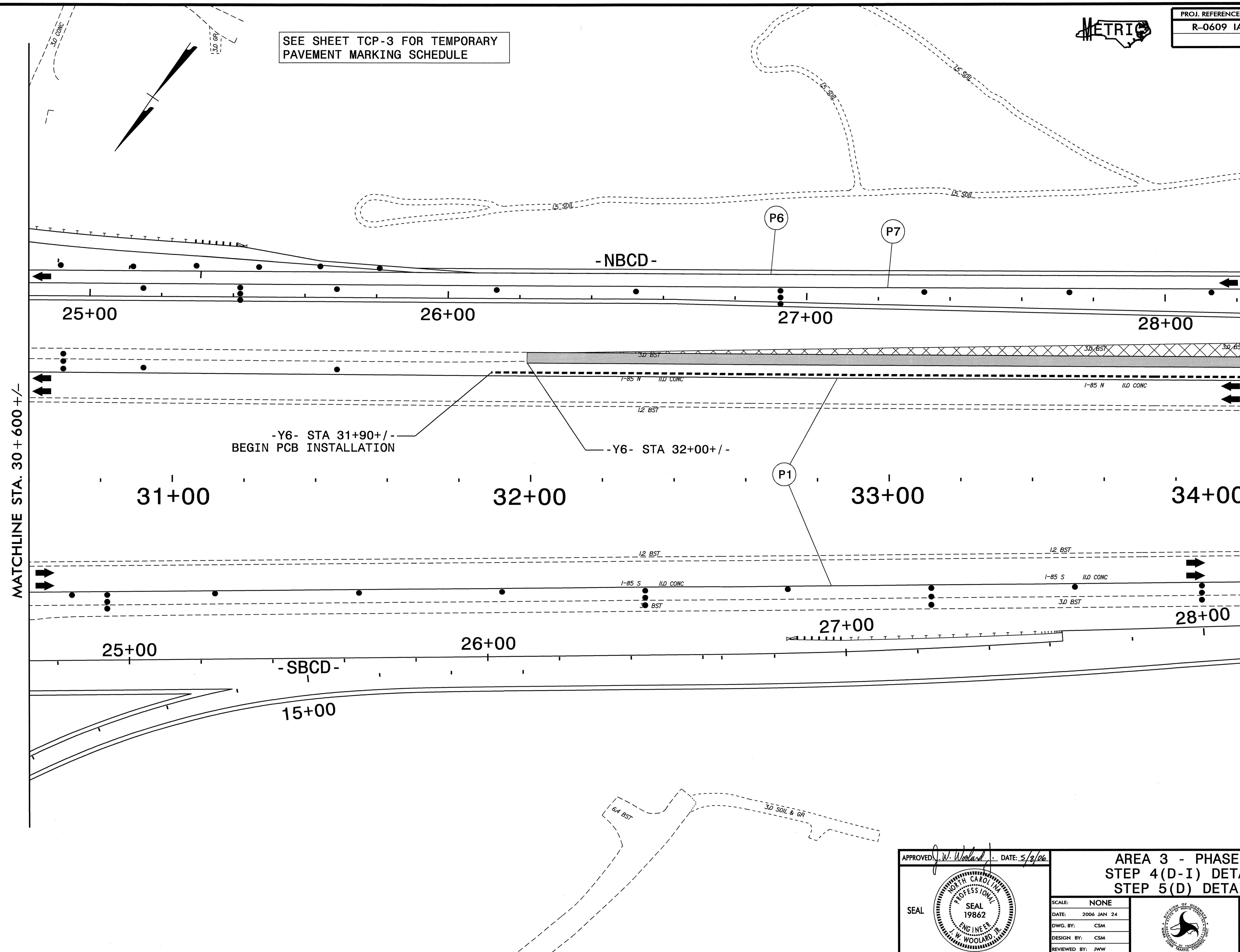
REVISIONS

CADD FILE

04-MAY-2006 13:51
\\ets-ccfs03\r0609ia$\traffic\trafficcontrol\tcp\r0609ia_tc_tcp36_area3_pl_second_part.dgn
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-37

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 13:51
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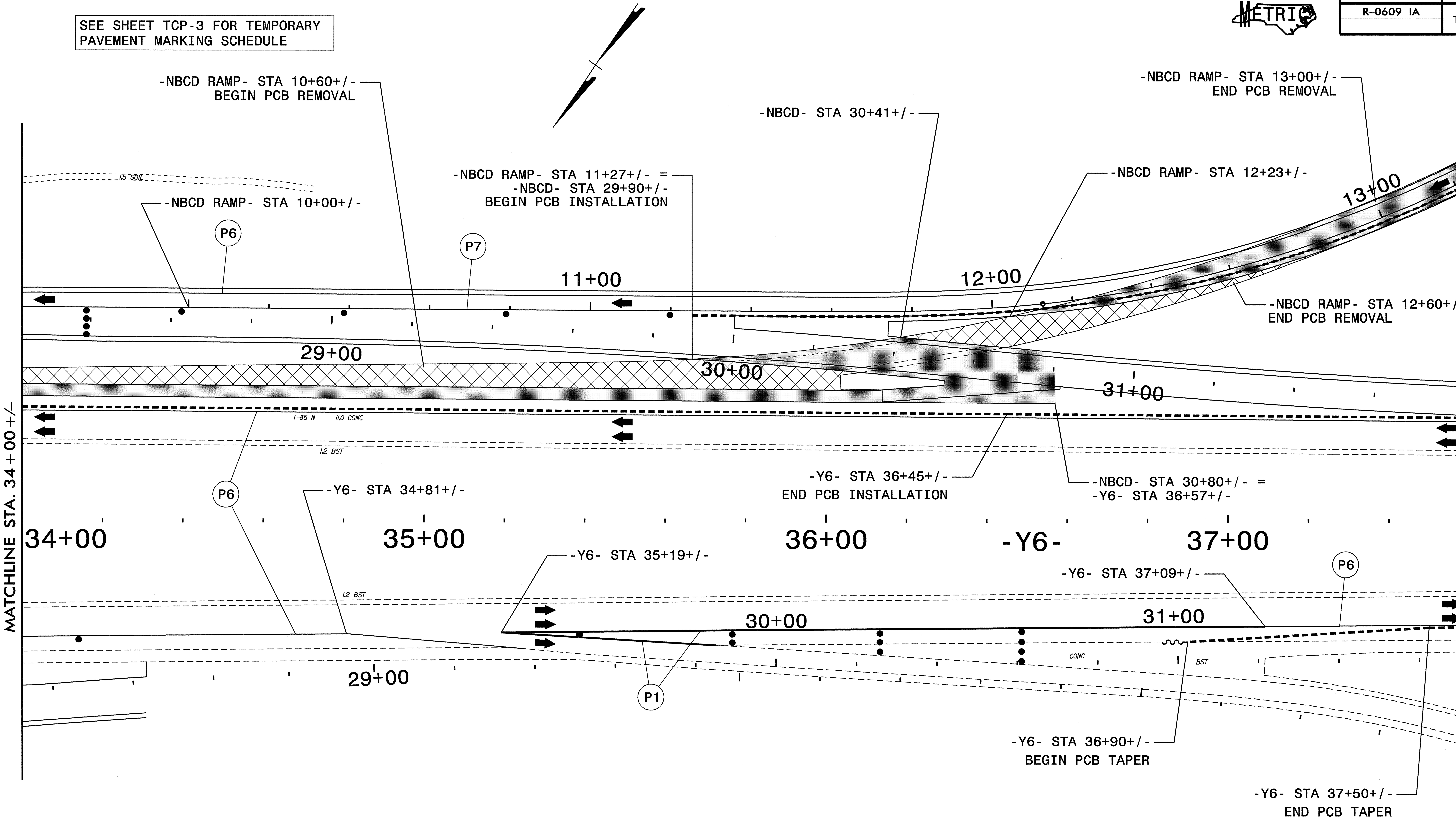
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-38

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: J.W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

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04-MAY-2006 13:52
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csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-39

METRIC

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE

-NBCD RAMP- STA 13+71+/-
END PCB INSTALLATION

P6 P7

NC HWY 62 10.6 BST
NC HWY 62 8.0 BST
CONC ISL
CONC
CONC
CONC ISL
7.4 CONC
12 BST

32+00

I-85 N 11.0 CONC
12 BST

P1 P6 P7

I-85 N 11.0 CONC
12 BST

-Y6- STA 40+91+/-

38+00 39+00 40+00 41+00

MATCHLINE STA. 37+60 +/-

MATCHLINE STA. 41+00 +/-

12 BST

I-85 S 11.0 CONC

12 BST

P6

CONC
CONC
CONC

NC HWY 62 8.0 BST
NC HWY 62 10.6 BST
CONC ISL

12 BST
7.4 CONC
12 BST

ISL CONC

APPROVED: J. W. Woolard DATE: 5/9/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

04-MAY-2006 13:52
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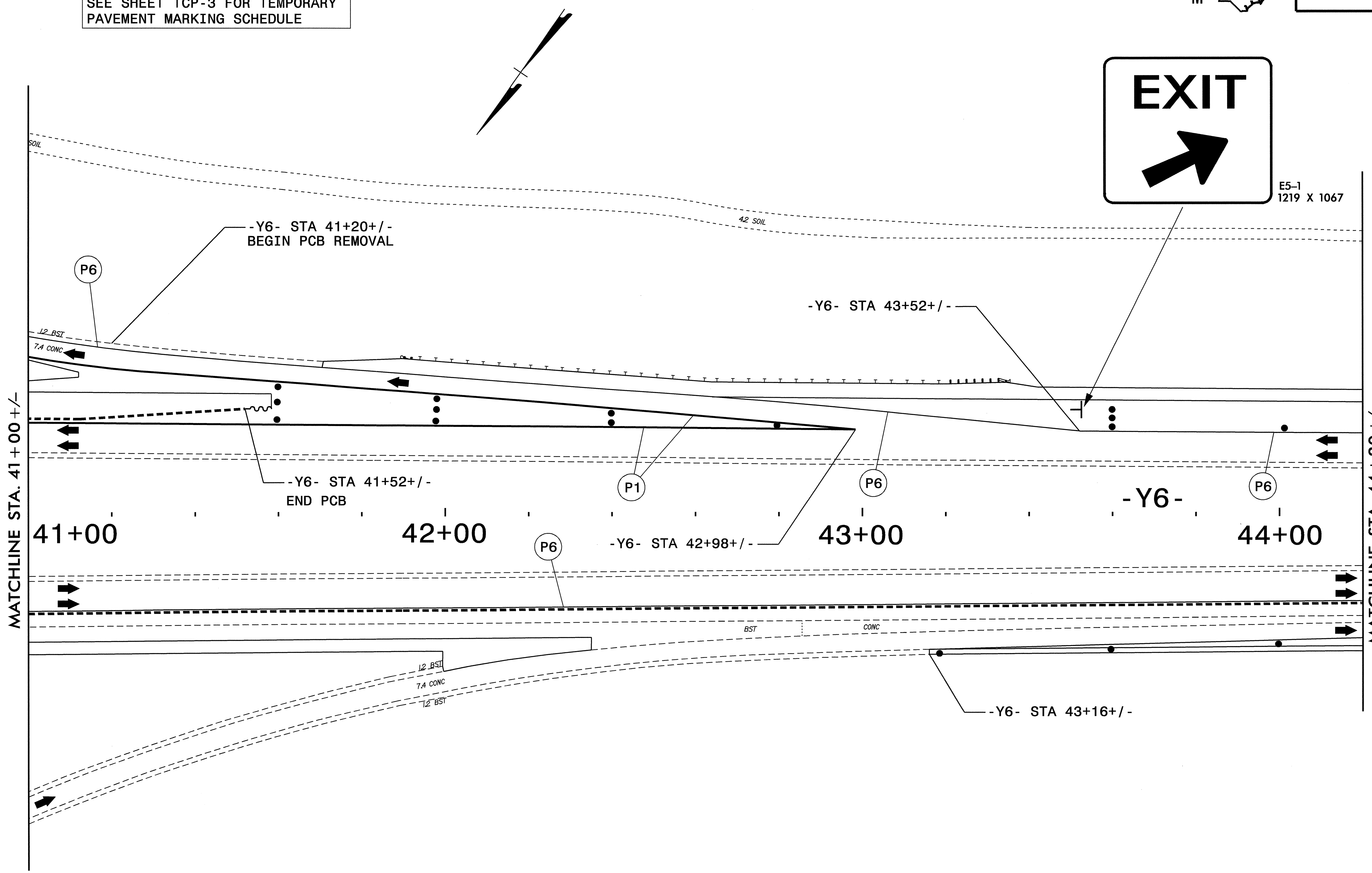
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-40

SEE SHEET TCP-3 FOR TEMPORARY
PAVEMENT MARKING SCHEDULE



APPROVED: J. W. Woolard Jr. DATE: 5/8/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 13:52
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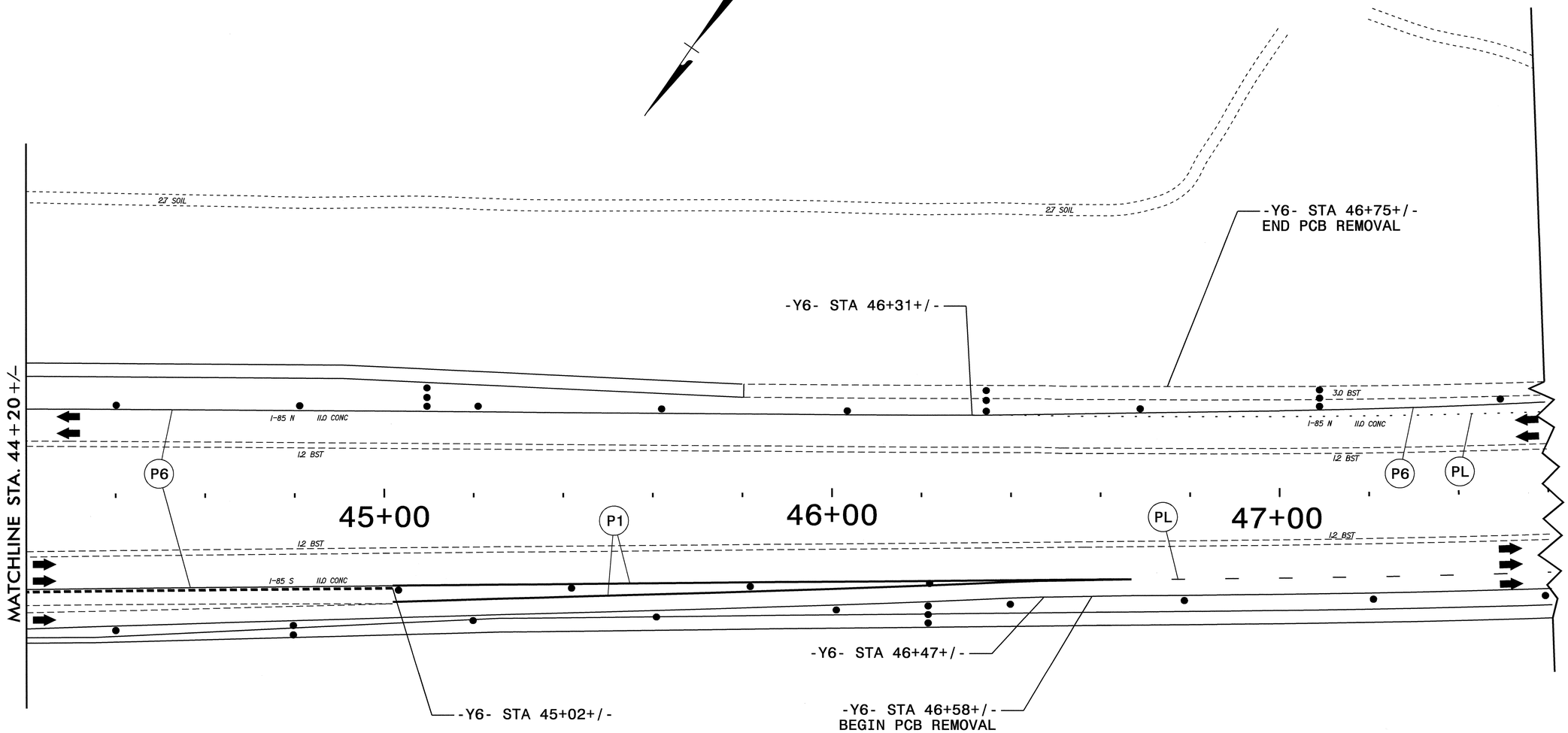
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-41

SEE SHEET TCP-3 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



APPROVED: J.W. Woolard DATE: 5/8/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

04-MAY-2006 13:52
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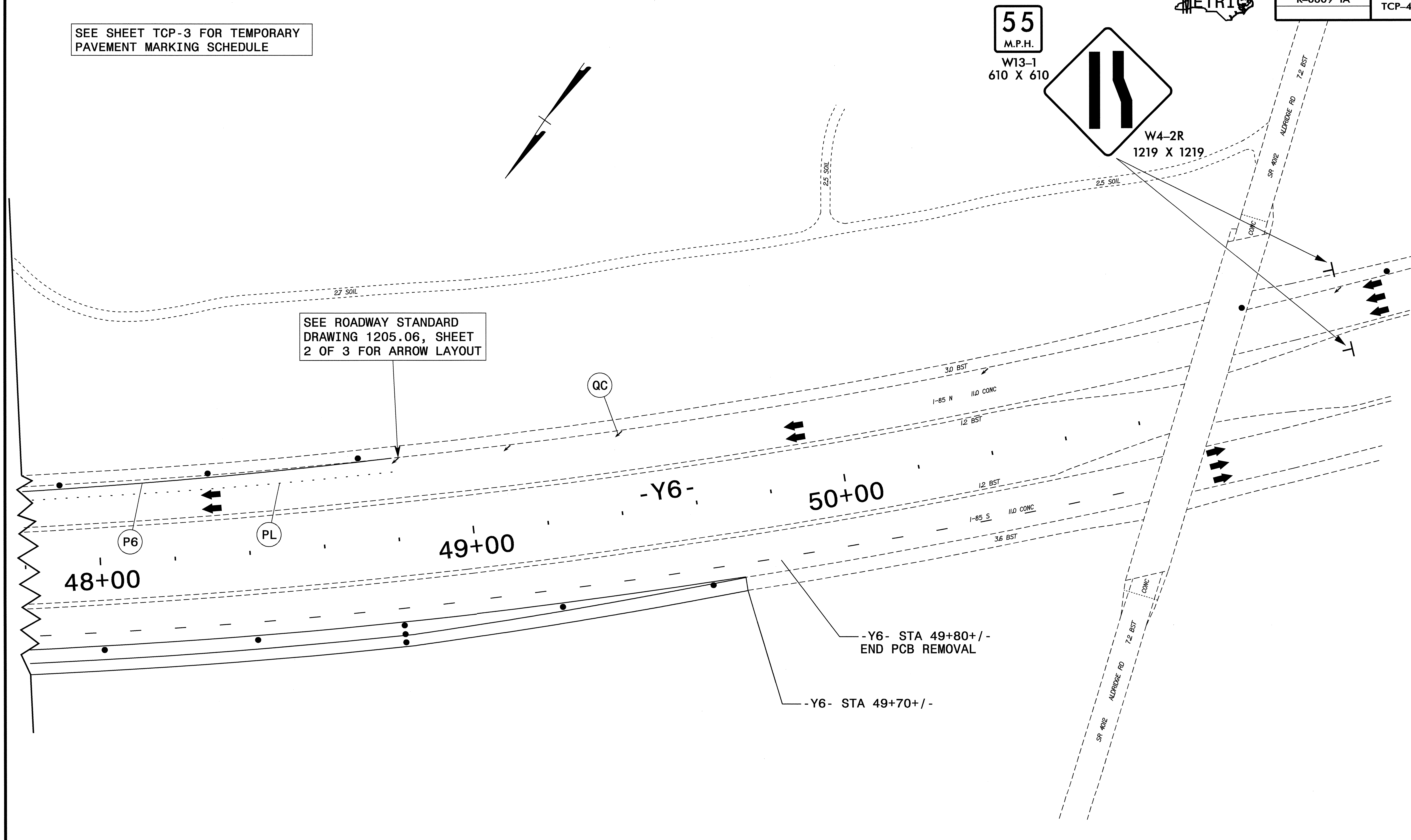
osmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-42

METRIC

SEE SHEET TCP-3 FOR TEMPORARY
PAVEMENT MARKING SCHEDULE



APPROVED: J.W. Woolard DATE: 5/8/06

SEAL

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

AREA 3 - PHASE 1
STEP 4(D-I) DETAIL
STEP 5(D) DETAIL

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

04-MAY-2006 13:52
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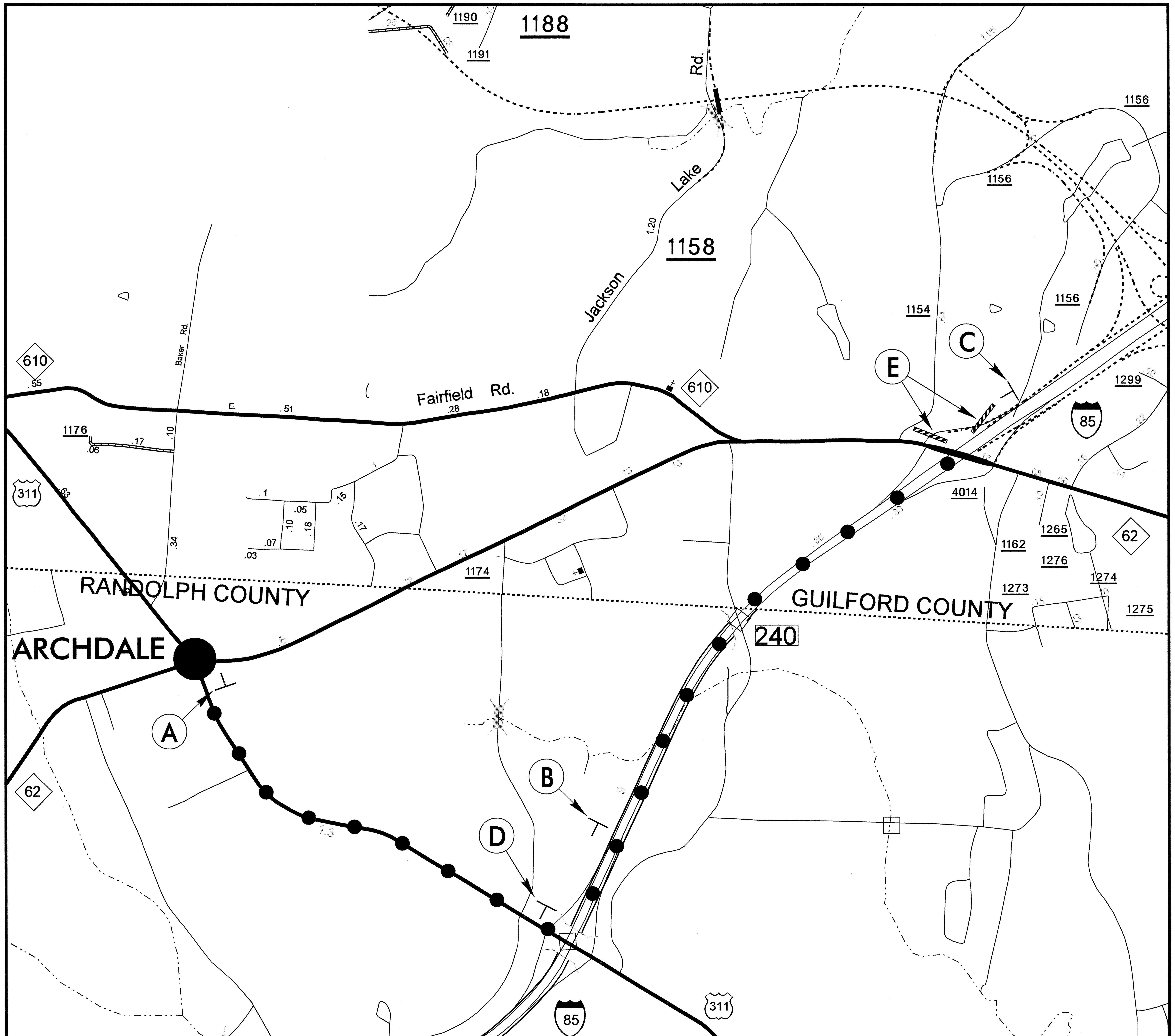
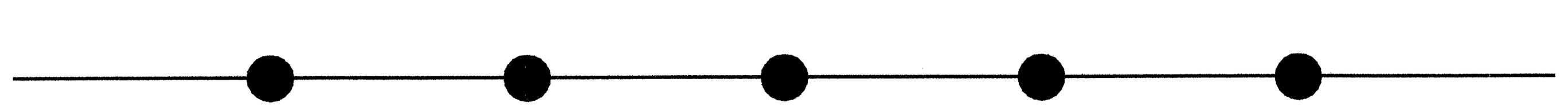
csmozingo AT WZTC224097

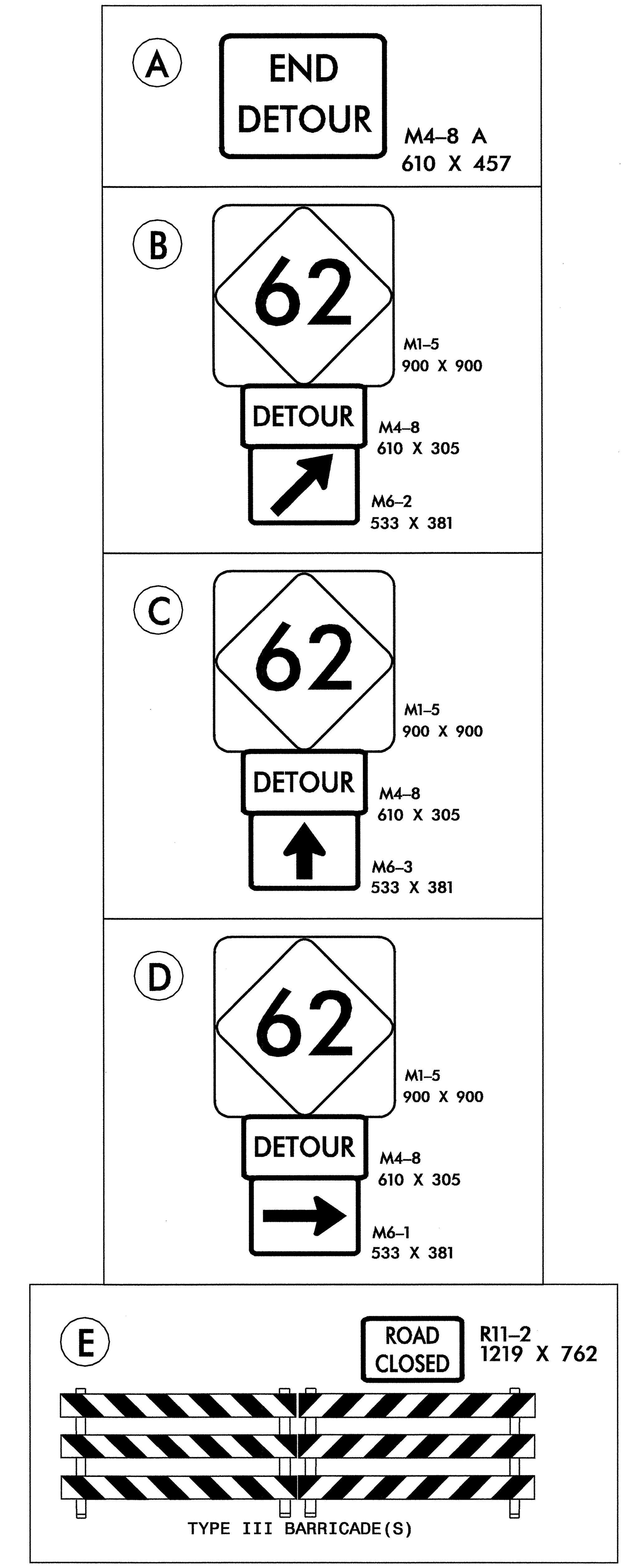
METRIC

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-43





DETOUR ROUTE



APPROVED: J. W. Woolard Jr. DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 1 – STEP 6
DETOUR ROUTE

SCALE:	NONE
DATE:	2006 MAR 22
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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REVISIONS

CADD FILE

04-MAY-2006 13:52
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csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-44

-NBCD RAMP- STA 10+60+/-
BEGIN PCB

-NBCD RAMP- STA 10+00+/-

-NBCD RAMP- STA 12+00+/-
BEGIN PCB

-NBCD- STA 30+20+/-

-NBCD RAMP- STA 12+23+/-

-NBCD RAMP- STA 13+00+/-
END PCB

-NBCD- STA 32+59+/- =
-Y6- STA 38+35+/-

-NBCD RAMP- STA 12+60+/-
END PCB

28+00 29+00 30+00 31+00 32+00

-Y6- STA 33+70+/-

34+00 35+00 36+00 37+00 38+00 39+00

-SBCD- STA 28+43+/- =
-Y6- STA 34+30+/-

-Y6- STA 34+81+/-

-Y6- STA 35+19+/-

-Y6- STA 36+45+/-
BEGIN PCB

-NBCD- STA 30+80+/- =
-Y6- STA 36+57+/-

-Y6- STA 36+90+/-
BEGIN PCB TAPER

-Y6- STA 37+50+/-
CONNECT TO
PREVIOUS PCB

-Y6- STA 35+73+/-

-Y6- STA 37+09+/-

-Y6- STA 37+60+/- =
-SBCD- STA 31+72+/-

ROAD CLOSED
R11-2
1219 X 762

TYPE III BARRICADE(S)

-SBCD RAMP- STA 12+80+/-

-SBCD RAMP- STA 13+52+/-

APPROVED J.W. Woolard DATE: 5/9/06

SEAL

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

AREA 3 - PHASE 1 - STEP 6
SOUTHBOUND EXIT
RAMP CLOSURE

SCALE:	NONE
DATE:	2006 FEB 21
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

REVISIONS

CADD FILE

04-MAY-2006 13:52
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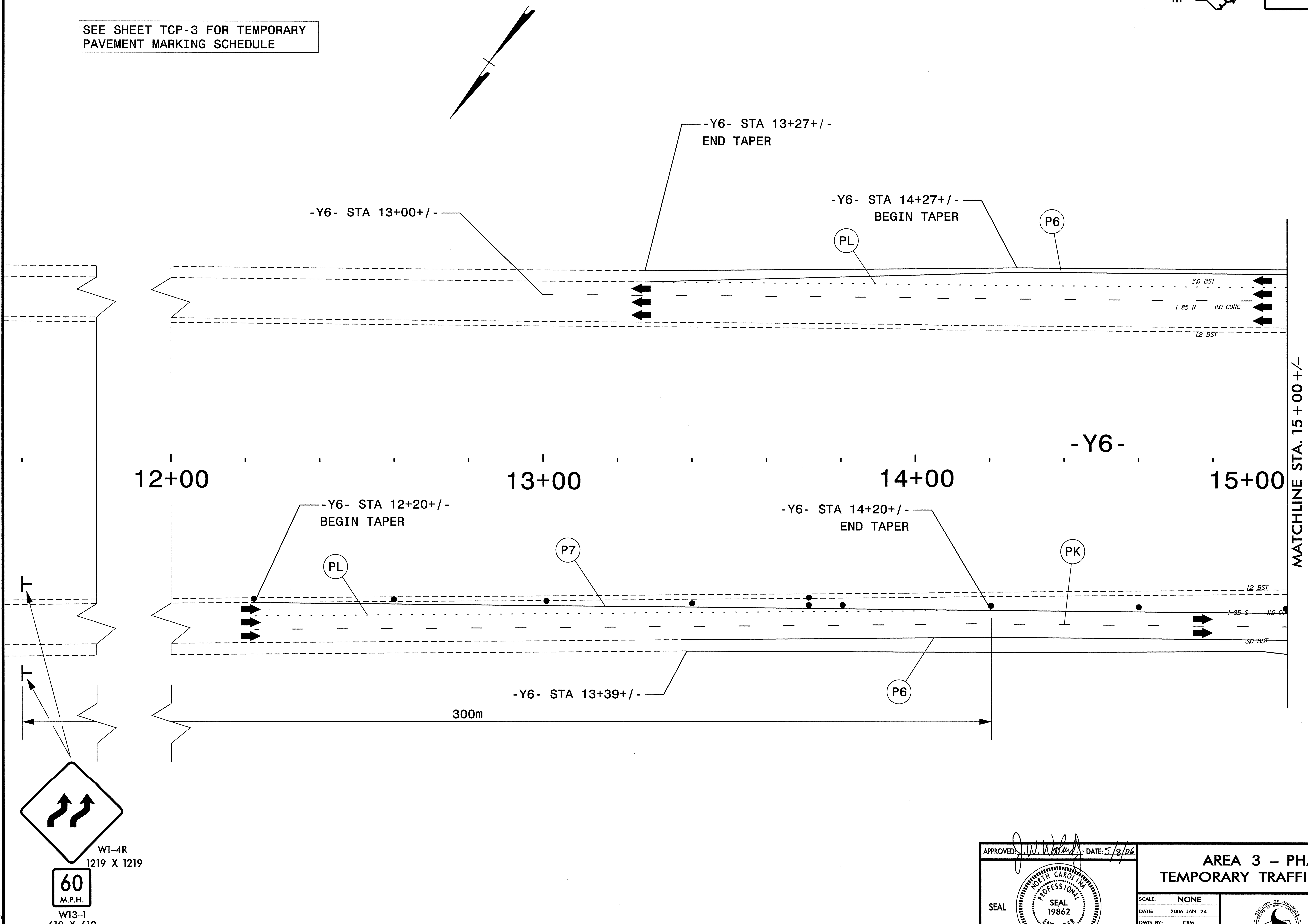
csmozingo A1 W2TC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-45

METRIC

SEE SHEET TCP-3 FOR TEMPORARY
PAVEMENT MARKING SCHEDULE



08-MAY-2006 10:18
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csmozingo AT WZTC224097

APPROVED: J. W. Woolard DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2
TEMPORARY TRAFFIC PATTERN

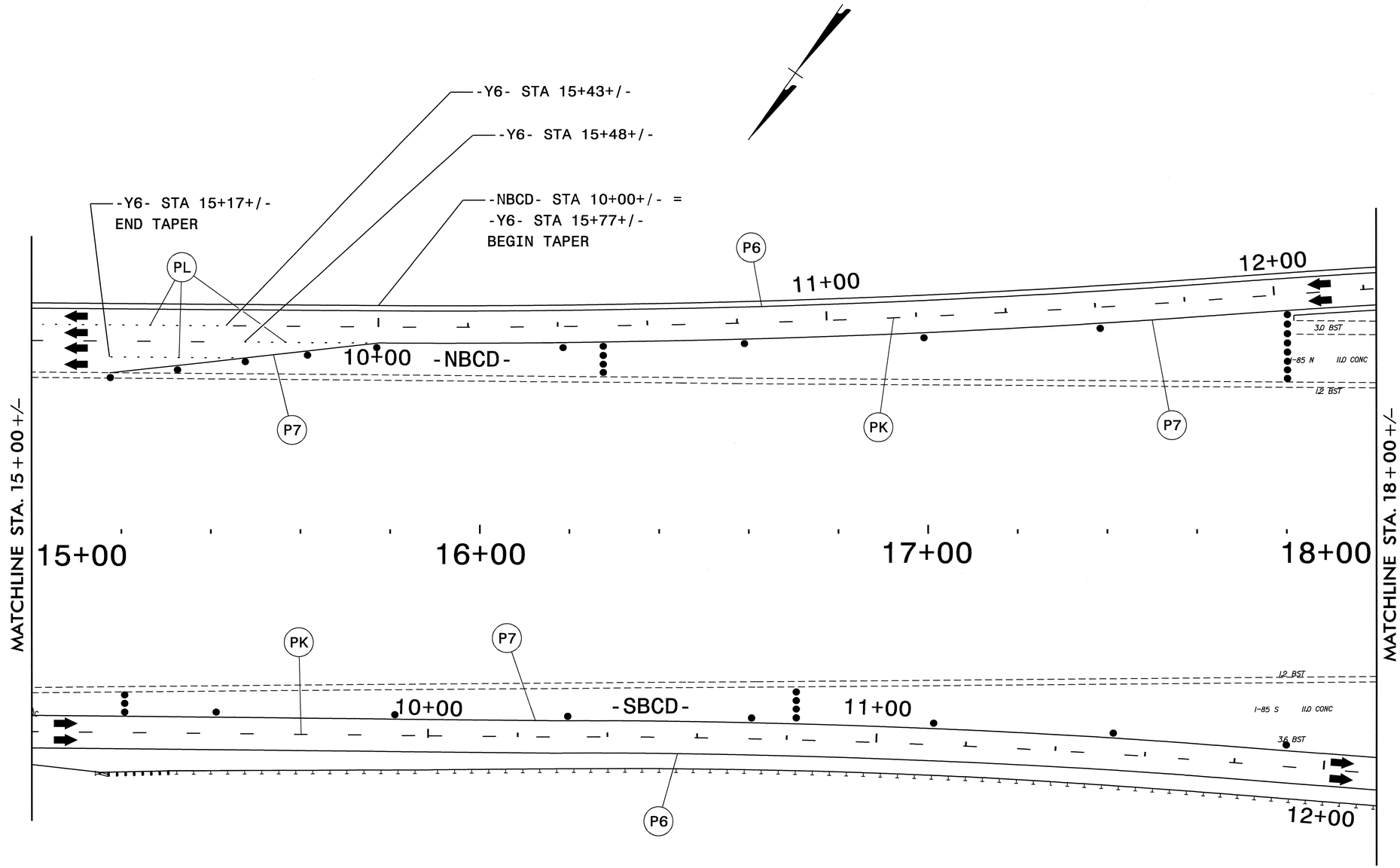
SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-46



APPROVED: J. W. Woolard DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2 TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

REVISIONS	
CADD FILE	

08-MAY-2006 10:18
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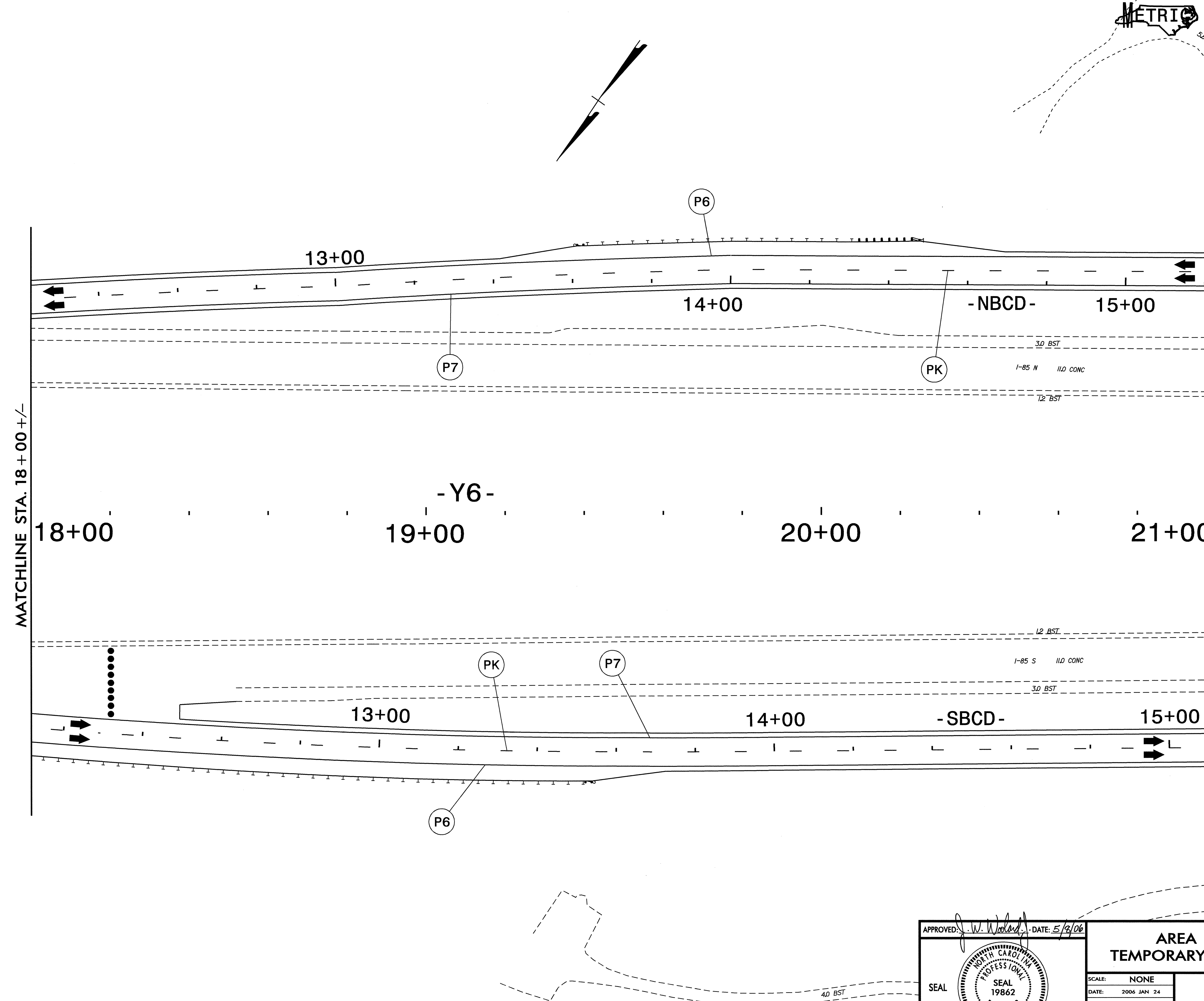
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-47



APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2
TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

08-MAY-2006 10:19
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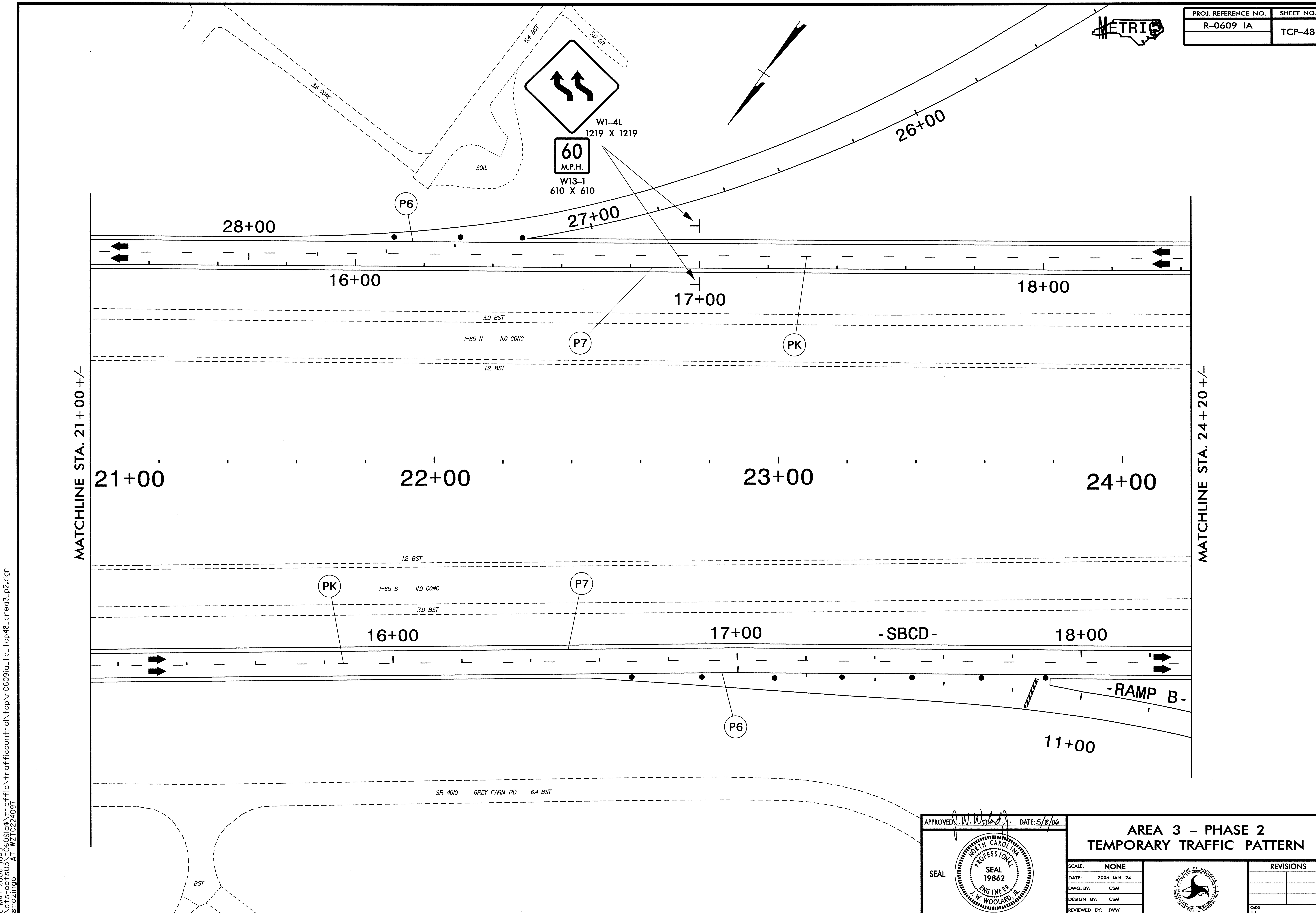
csmozingo AT WZTC224097



PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-48

APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2
TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

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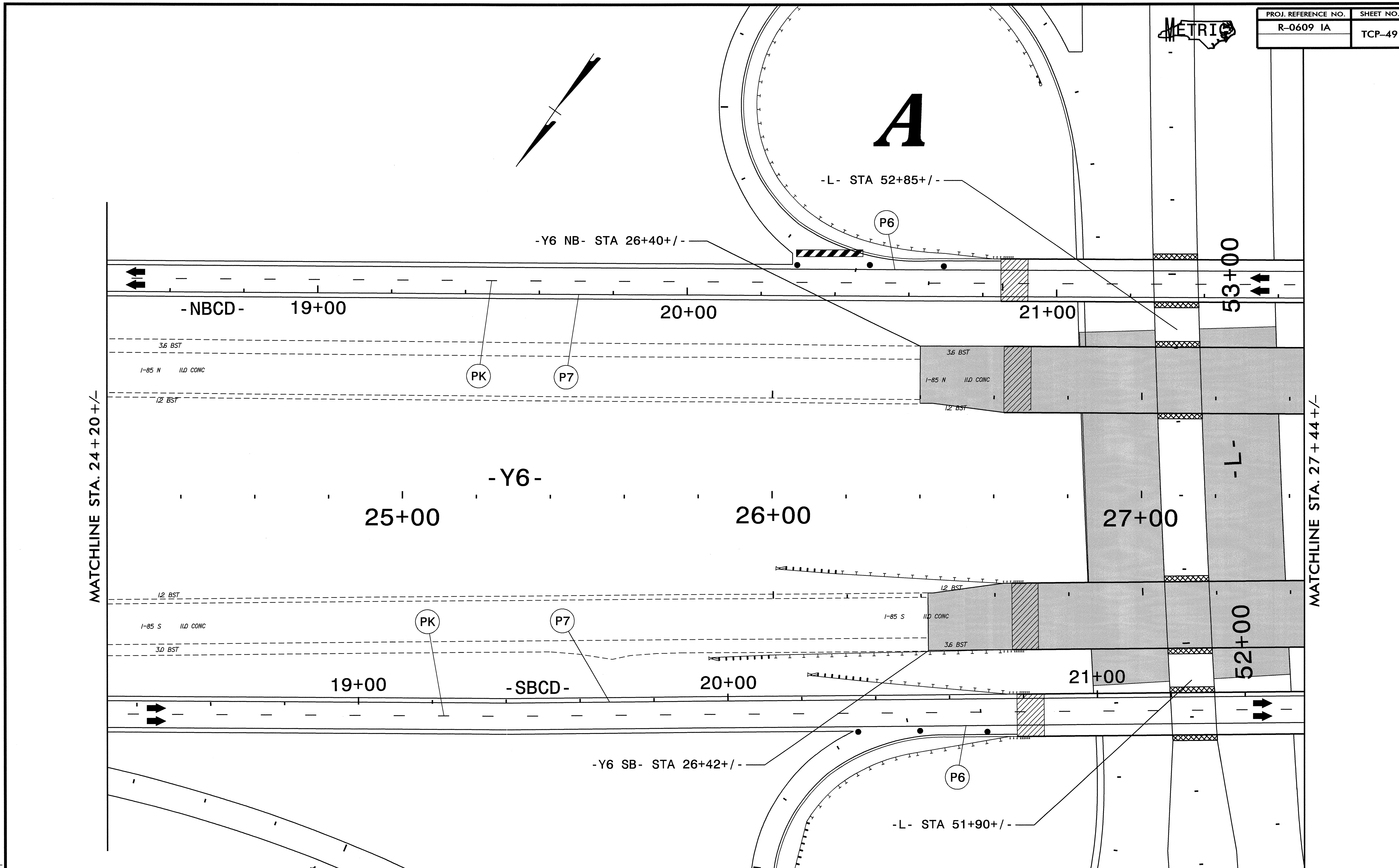
PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-49



APPROVED: J.W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2
TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
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DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL UNIT

REVISIONS

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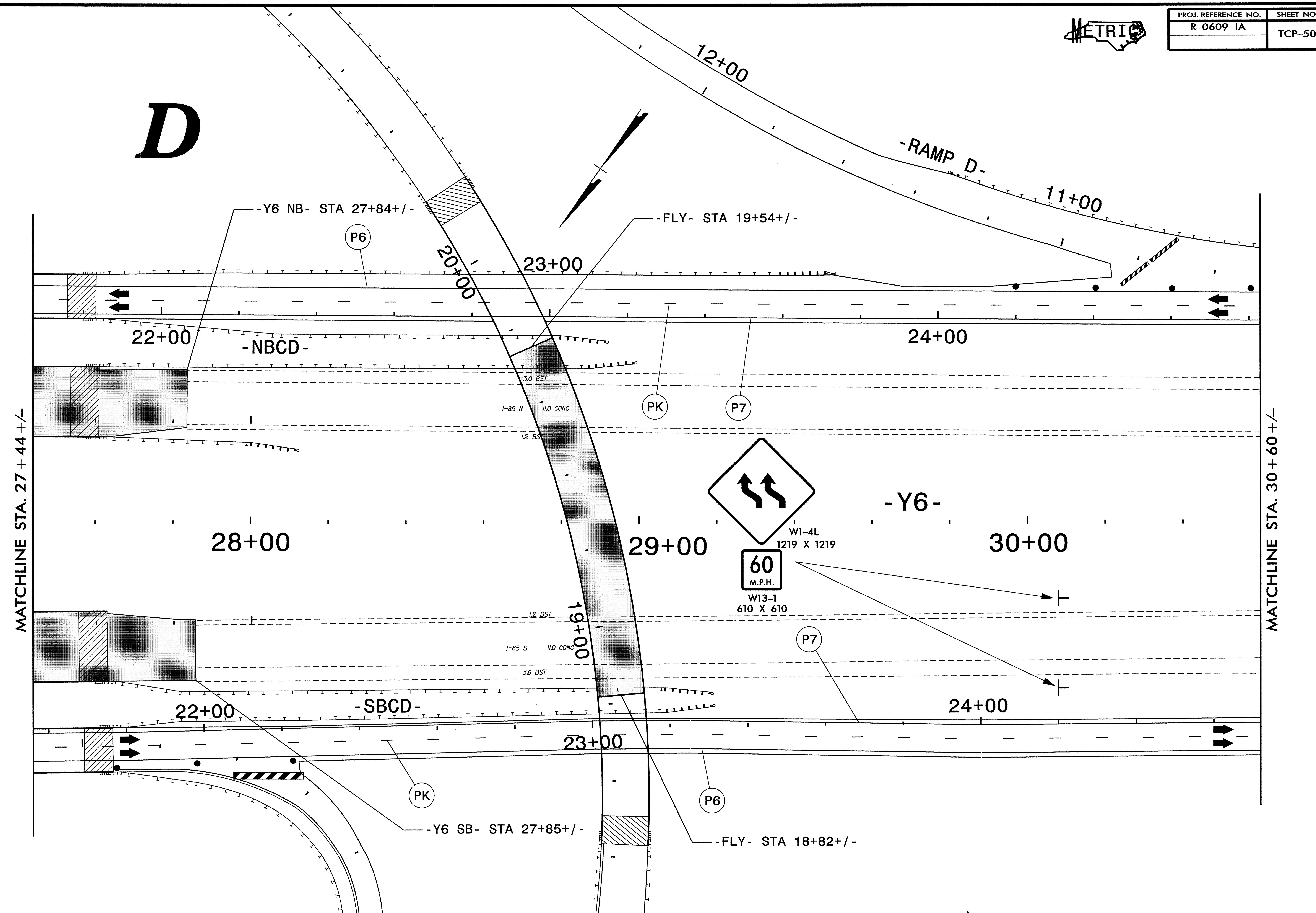
PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-50



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csmozingo AT WZTC224097

APPROVED: J.W. Woolard Jr. DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2
TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

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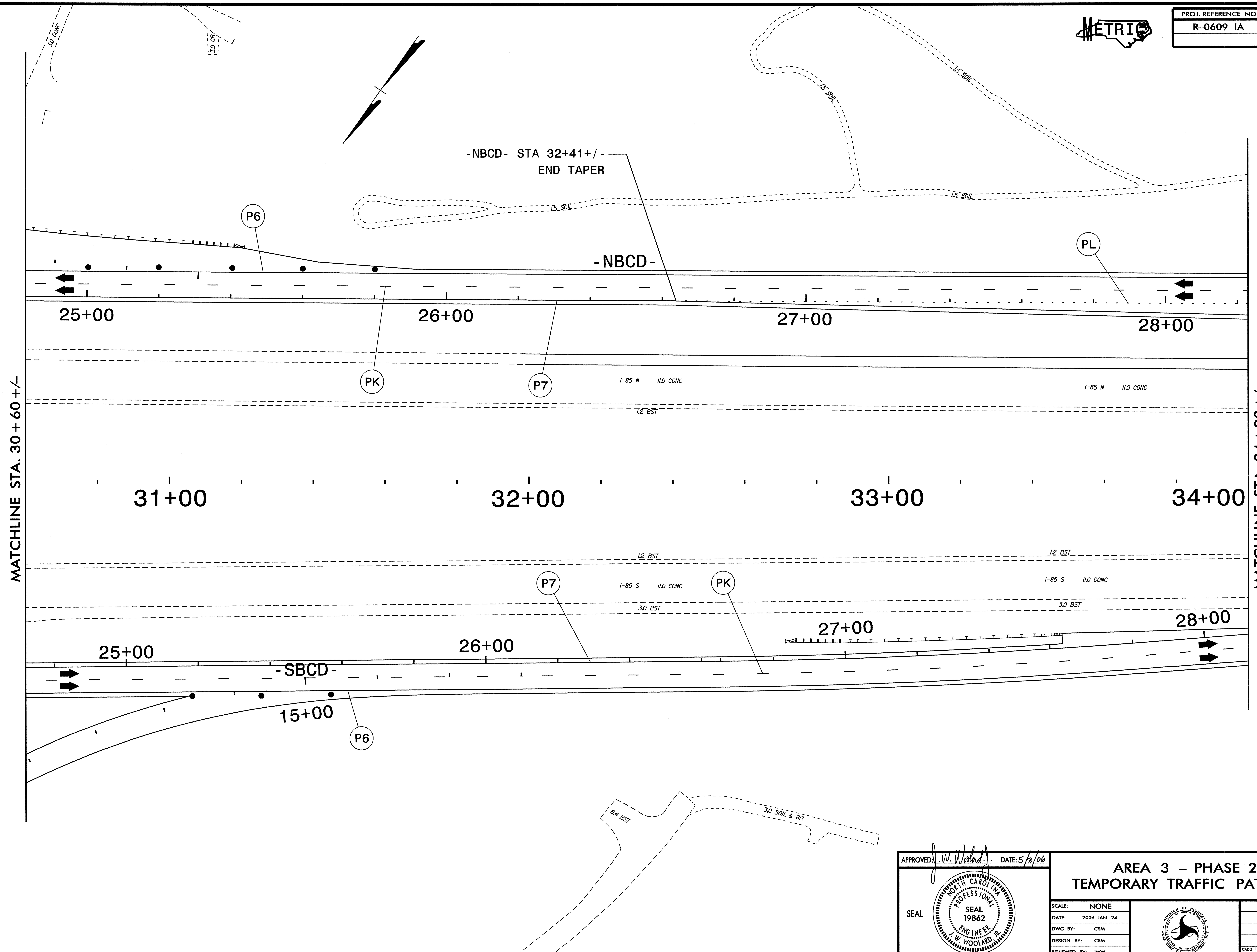

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-51

APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2
TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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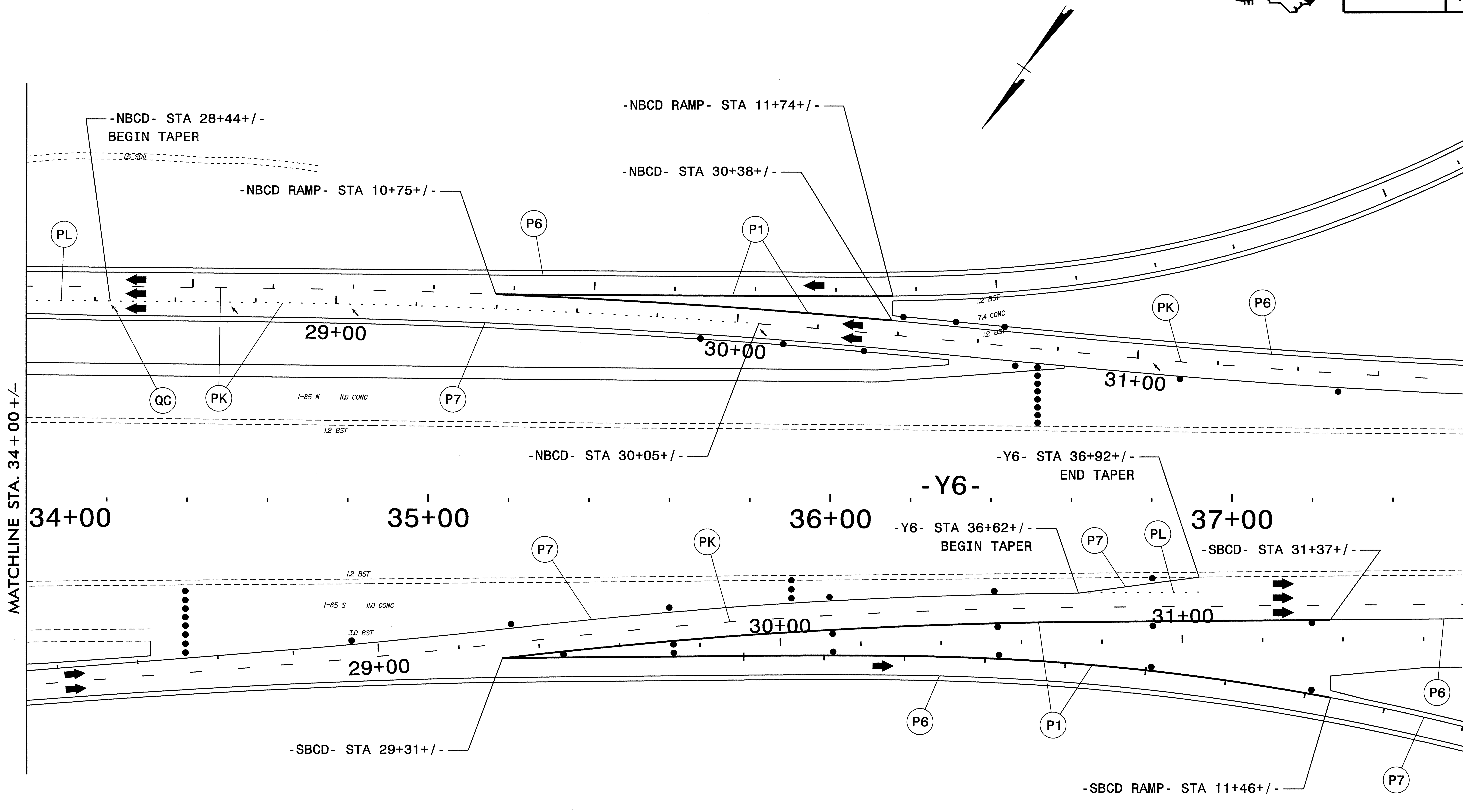
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-52



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csmozingo AT WZTC224097

APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2
TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

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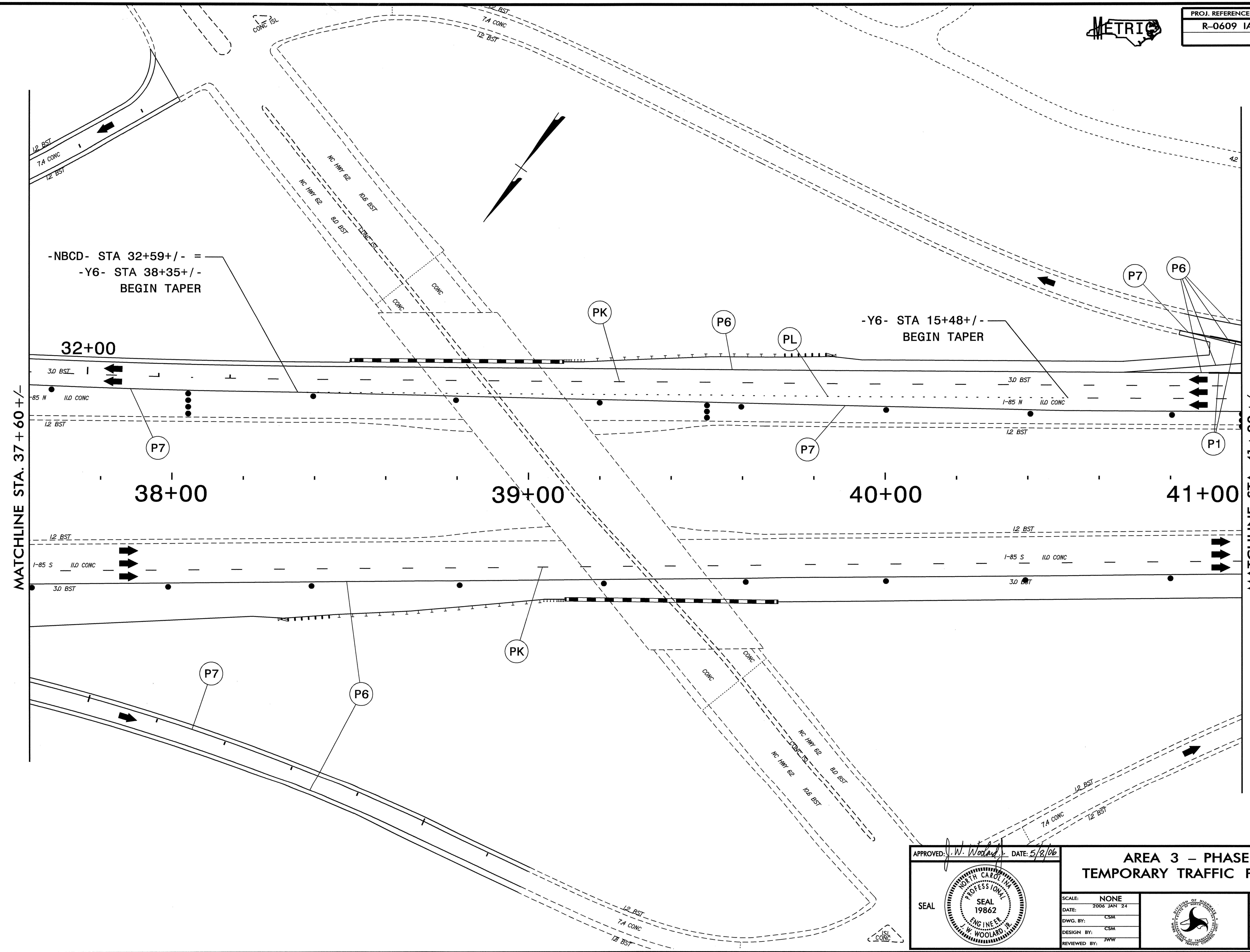
PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-53

METRIC



APPROVED: J. W. Woolard DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2
TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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08-MAY-2006 10:19
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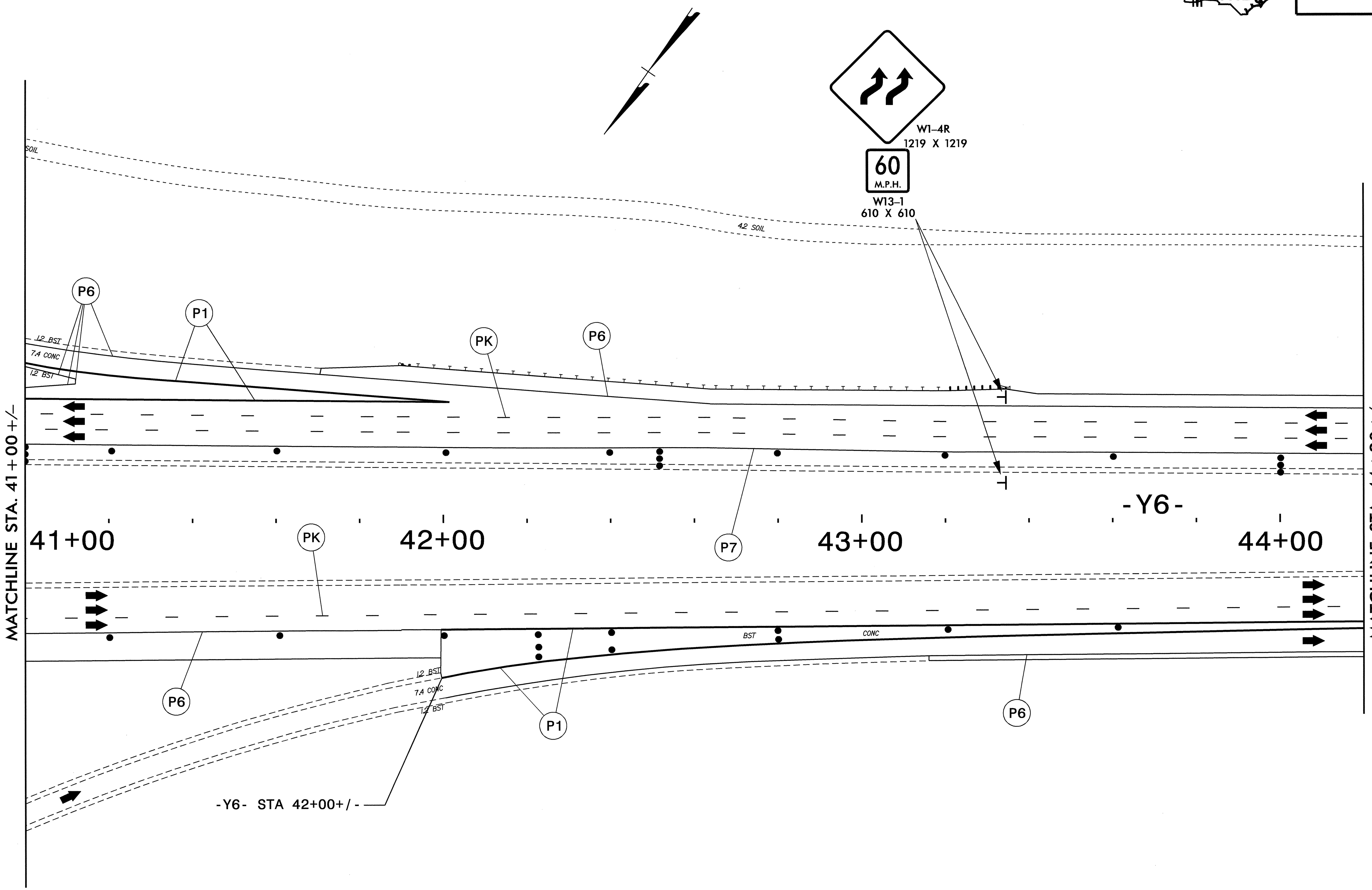
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-54

METRIC



APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2 TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

REVISIONS

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08-MAY-2006 10:19
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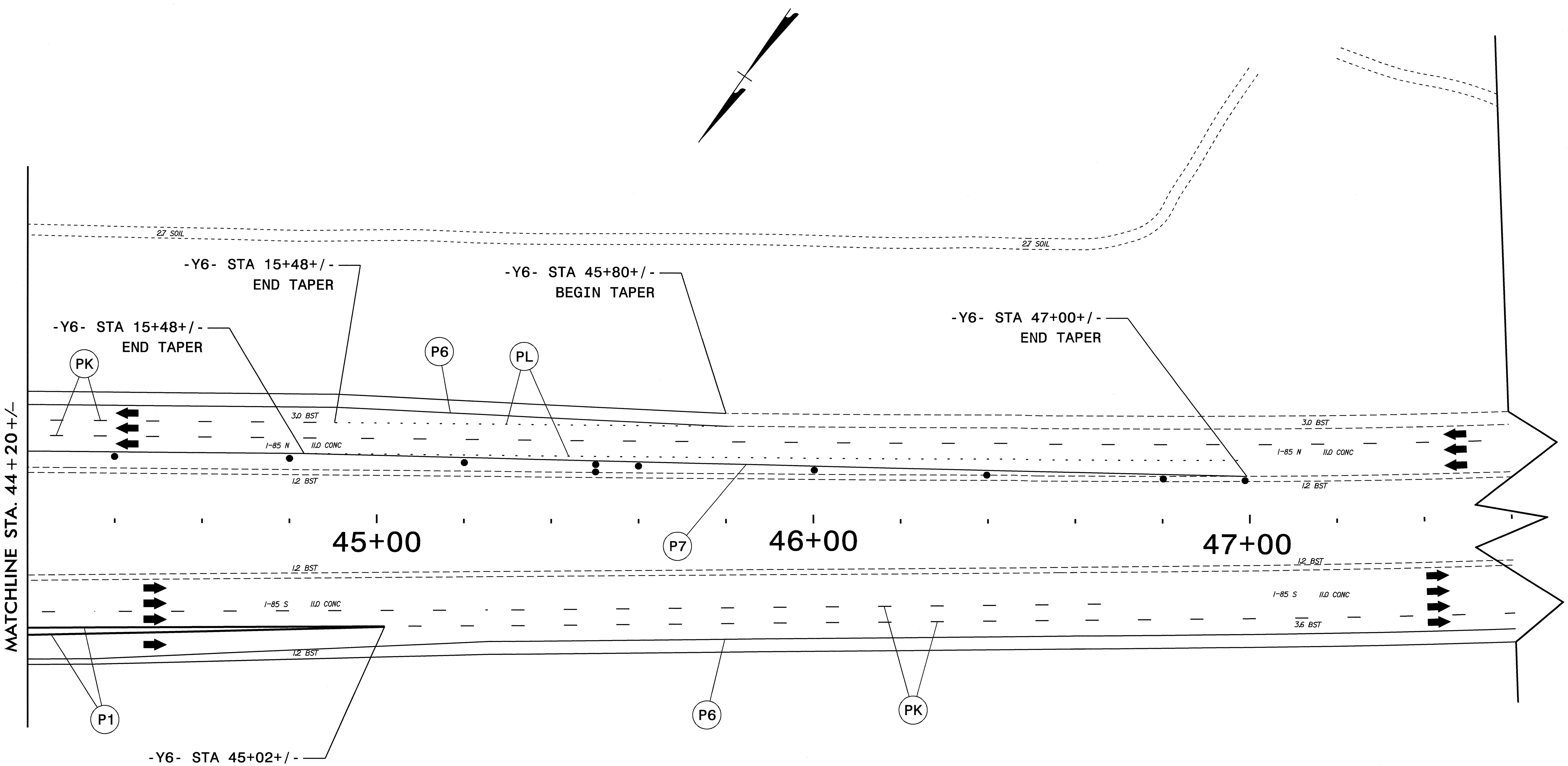
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-55



APPROVED: J. W. Woolard Jr. DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2 TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 24
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

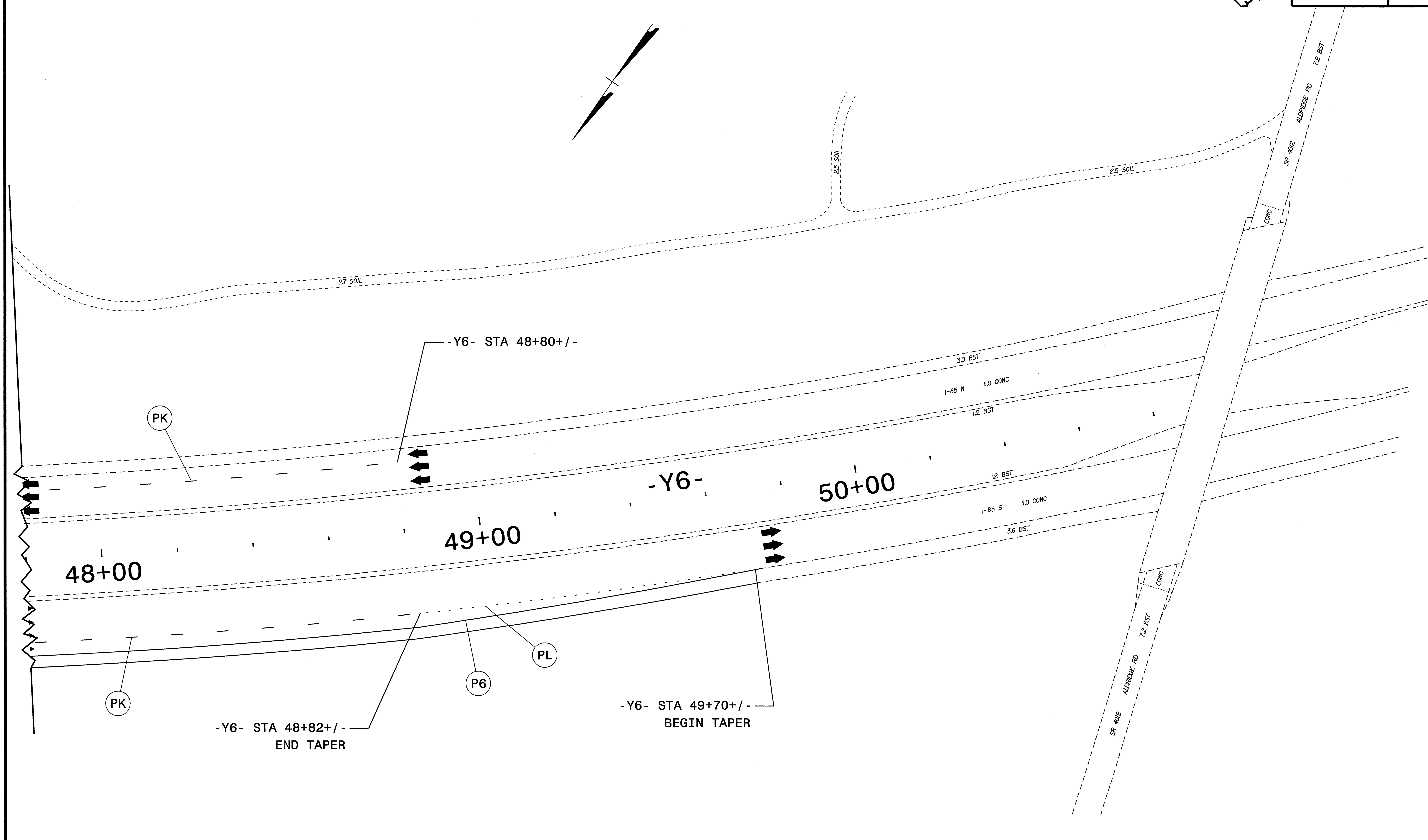
REVISIONS

CADD FILE

08-MAY-2006 10:19
\\ets-ccfs03\r0609ia$\traffic\trafficcontrol\tcp\r0609ia_tc_tcp55_area3_p2.dgn
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-56

METRIC



08-MAY-2006 10:19
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csmozingo AT WZTC224097

APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

SEAL

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

AREA 3 – PHASE 2 TEMPORARY TRAFFIC PATTERN

SCALE:	NONE
DATE:	2006 JAN 25
DWG. BY:	CSM
DESIGN BY:	CSM
REVIEWED BY:	JWW

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

REVISIONS

CADD FILE

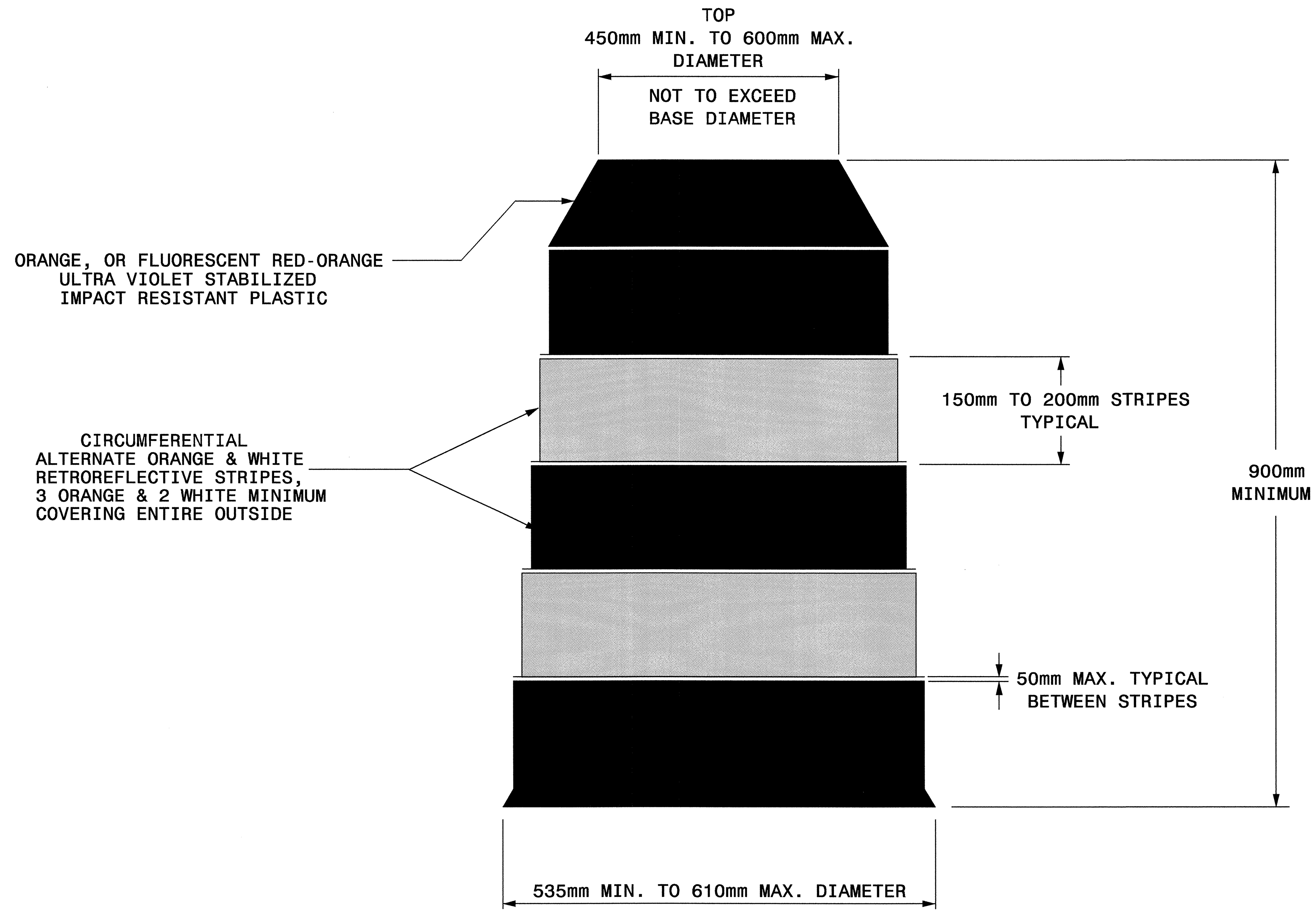
PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-57

METRIC

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-02

METRIC STANDARD DRAWING FOR
DRUMS



GENERAL NOTES

- BALLASTING SHALL BE ACHIEVED BY THE SAND BAG, TIRE-SIDEWALL BALLAST, OR PREFORMED WEIGHTED BASE BALLASTING METHODS. DO NOT PLACE BALLAST ON TOP OF THE DRUM, NOR AS TO PRESENT A HAZARD WHEN STRUCK.
- IF NECESSARY PLACE THE NAME OF THE AGENCY, CONTRACTOR, OR SUPPLIER ON NON-RETROREFLECTIVE DRUM SURFACES. SHOW THE LETTERS AND NUMBERS USING A NON-RETROREFLECTIVE COLOR AND NOT OVER 50mm IN HEIGHT.

Note:
This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

SHEET 1 OF 1
1130D01

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-02

METRIC STANDARD DRAWING FOR
DRUMS

SHEET 1 OF 1
1130D01

APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

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

REPLACEMENT DETAIL FOR
RSD 1130.01

SCALE:	NONE
DATE:	8/02
DWG. BY:	MMM
DESIGN BY:	MMM
REVIEWED BY:	MMM

DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL UNIT

REVISIONS

CADD FILE

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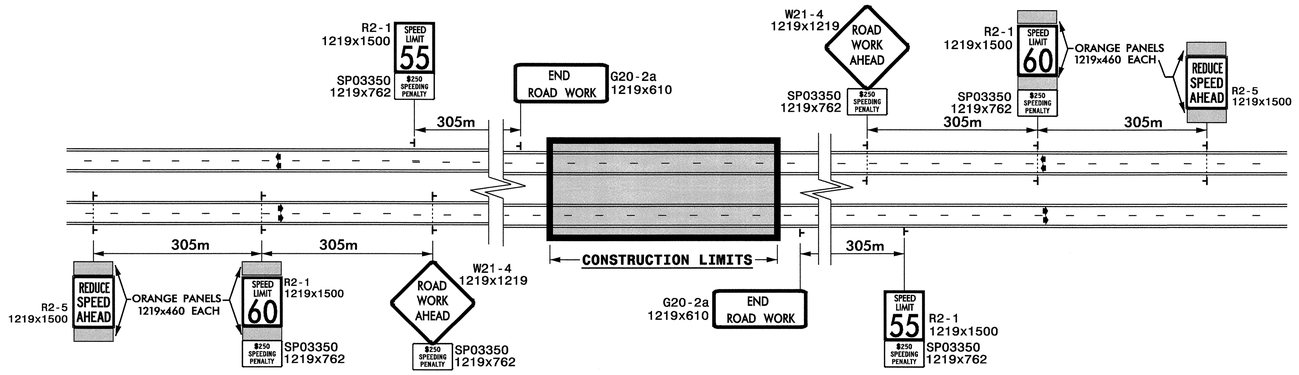
csmozingo AT WZTC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609IA	TCP-58



GENERAL NOTES

-FOR UNDIVIDED AND TWO LANE-TWO WAY ROADWAYS, SIGNS ARE REQUIRED ONLY ON THE RIGHT SIDE OF THE ROADWAY.

-SEE SHEET TCP-61 FOR ALL OTHER WORK ZONE SIGNS SIZE AND SPACING OTHER THAN THE "REDUCE SPEED AHEAD" SIGN.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

DETAIL DRAWING FOR WORK ZONE SIGNS "REDUCE SPEED AHEAD SIGN"

SHEET 1 OF 1

APPROVED: J. W. Woolard DATE: 5/8/06

SEAL

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

DETAIL DRAWING FOR WORK ZONE SIGNS

SCALE:	NONE
DATE:	
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	

REVISIONS	
7-98	1/00
10-98	5/00
12-99	03/04

CADD FILE

04-MAY-2006 13:53
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csmozingo AT WIC224097

PROJ. REFERENCE NO.	SHEET NO.
R-0609 IA	TCP-59

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

SP 03353

SIGN NUMBER: SP-03353
TYPE: A
QUANTITY: 1

SIGN WIDTH: 1219mm
HEIGHT: 1219mm
TOTAL AREA: 1.5 Sq.m

BORDER TYPE: FLUSH
RECESS: 13mm
WIDTH: 19mm
RADII: 35mm

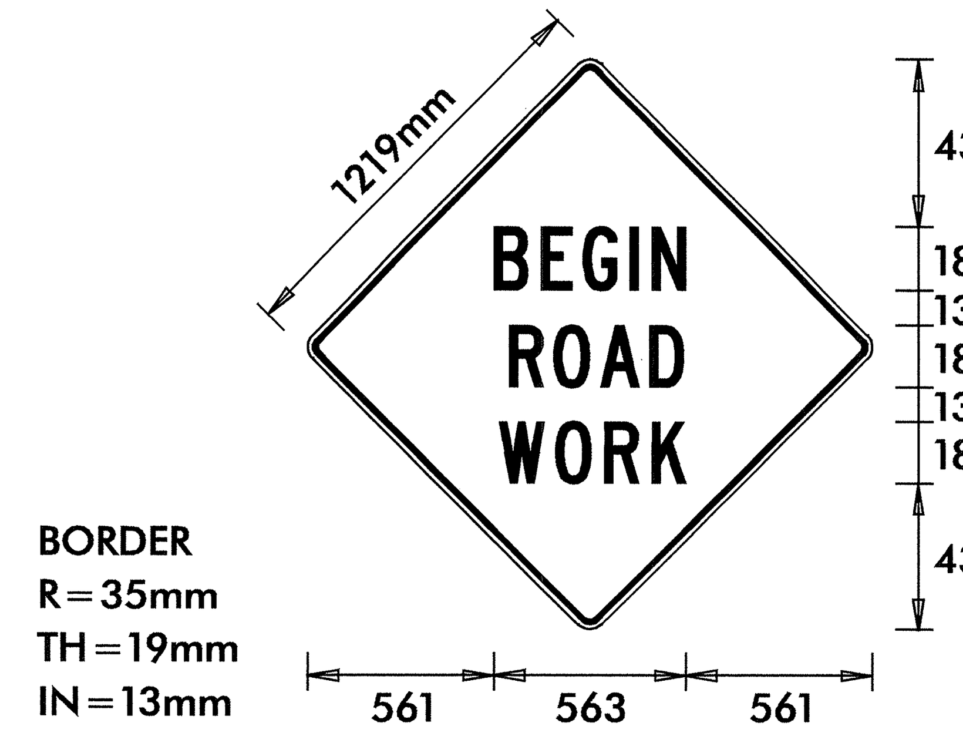
NO. Z BARS: N/A
LENGTH: N/A

BACKG COLOR: Fluorescent Orange
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L:

DESIGN BY: CLD
PROJECT ID: ALL PROJECTS
CHECKED BY: CHECKED
DIV: DIV
STD #: W20-1
DATE: Sep 19,2003



USE NOTES: 2, 4
1. Legend and border shall be direct applied Type VII reflective sheeting.
2. Legend and border shall be direct applied non-reflective sheeting.
3. Shields shall be Type VII reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
4. Background shall be Type VII reflective sheeting.
5. Background shall be Type I reflective sheeting.
6. Center arrow(s) vertically on sign.
7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter spacings are to start of next letter

								Series/Size Text Length
	B	E	G	I	N			C180
561	139	122	139	64	100	561		563
	R	O	A	D				C180
586	130	136	145	100	586			511
	W	O	R	K				C180
567	167	144	139	100	567			550

Spacing Factor is 1 unless specified otherwise

FILENAME: COPY

NORTH CAROLINA D.O.T. SIGN DETAIL

SP 03350

SIGN NUMBER: SP-03350
TYPE: D
QUANTITY: 1

SIGN WIDTH: 1219mm
HEIGHT: 762mm
TOTAL AREA: 0.9 Sq.m

BORDER TYPE: FLUSH
RECESS: 6mm
WIDTH: 10mm
RADII: 38mm

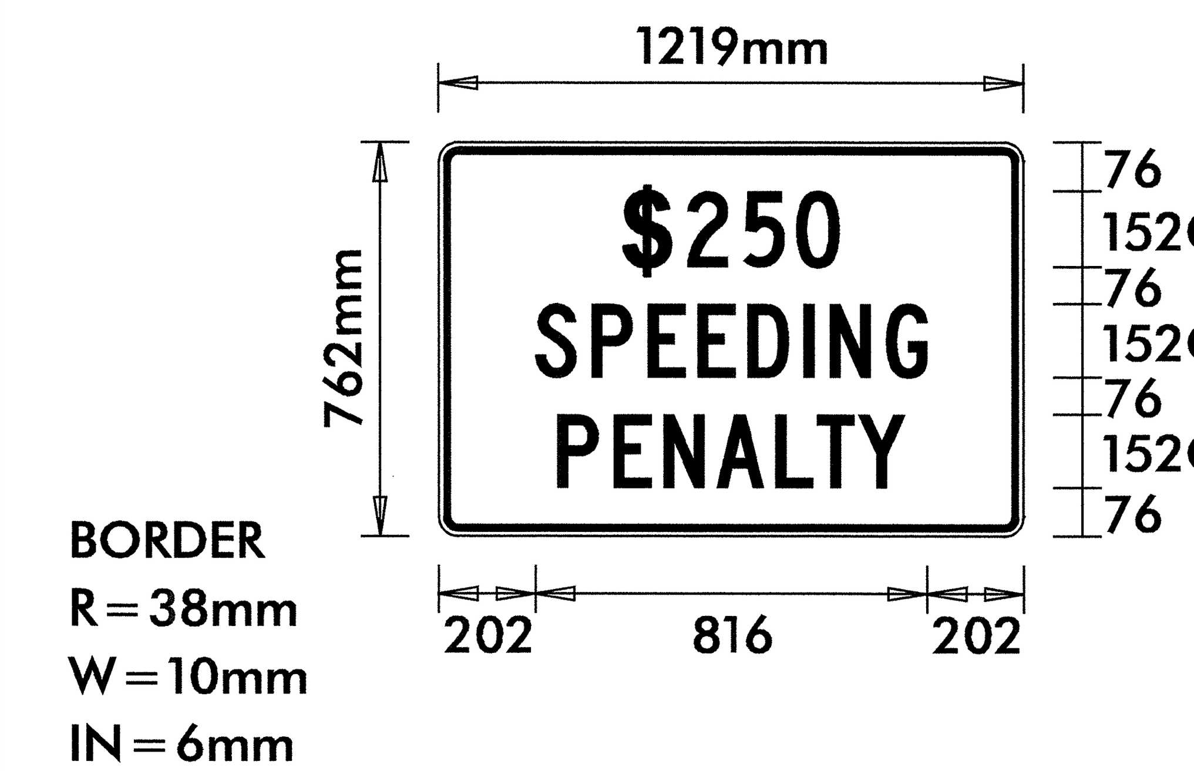
NO. Z BARS: N/A
LENGTH: N/A

BACKG COLOR: White
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L:

DESIGN BY: CLD
PROJECT ID: ALL PROJECTS
CHECKED BY:
DIV:
STD #: REGULATORY
DATE: Sep 19,2003



USE NOTES: 2, 4
1. Legend and border shall be direct applied Type III reflective sheeting.
2. Legend and border shall be direct applied non-reflective sheeting.
3. Shields shall be Type III reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
4. Background shall be Type III reflective sheeting.
5. Background shall be Type I reflective sheeting.
6. Center arrow(s) vertically on sign.
7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter spacings are to start of next letter

										Series/Size Text Length
	$	2	5	0						C152
384	133	117	110	89	384					450
	S	P	E	E	D	I	N	G		C152
202	118	117	104	104	117	54	117	85	202	816
	P	E	N	A	L	T	Y			C152
248	117	104	110	123	86	86	97	248		723

Spacing Factor is 1 unless specified otherwise

FILENAME: ISHAK

NORTH CAROLINA D.O.T. SIGN DETAIL

GENERAL NOTES FOR THE "BEGIN ROAD WORK" SIGN

-SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS
-WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO DETAIL A ON SHEET TCP-61.

GENERAL NOTES FOR THE "$250 SPEEDING PENALTY" SIGN

-SIGN SP-03350 "$250 SPEEDING PENALTY" IS USED ONLY WHEN ORDINANCED BY THE TRAFFIC ENGINEERING AND SAFETY SYSTEMS BRANCH.
-SIGN SP-03350 "$250 SPEEDING PENALTY" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS
-WHEN USED, MOUNT SIGN SP-03350 "$250 SPEEDING PENALTY" BELOW SIGN R2-1 "SPEED LIMIT XX" (SEE DETAIL A ON SHEET TCP-61) AND SIGN W21-4 "ROAD WORK AHEAD" (SEE DETAIL C ON SHEET TCP-61).

DETAIL DRAWING FOR
WORK ZONE SIGNS
$250 PENALTY SIGN

SHEET 1 OF 1

APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

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

DETAIL DRAWING FOR
ADVANCED WORK ZONE WARNING
SIGN DESIGNS

SCALE: NONE
DATE: 08/03
DWG. BY:
DESIGN BY:
REVIEWED BY:

REVISIONS: 04/04

CADD FILE

04-MAY-2006 13:53
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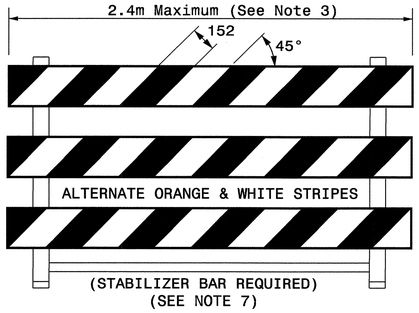
csmozingo AT WZTC224097

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
1-05

METRIC STANDARD DRAWING FOR
BARRICADES
TYPE-III

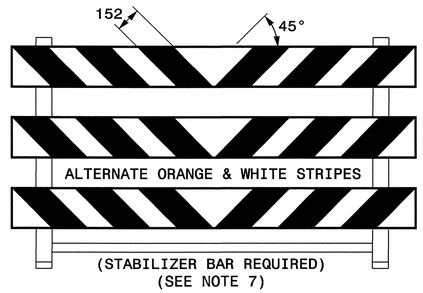
SHEET 1 OF 1
1145D01

TYPE III BARRICADE



TYPE III BARRICADE

END-OF-ROADWAY APPLICATIONS



GENERAL NOTES

1) HORIZONTAL RAILS FOR TYPE-III BARRICADES MAY BE HOLLOW/CORRUGATED EXTRUDED RIGID POLYOLEFIN, HIGH DENSITY POLYETHYLENE, OR OTHER NCDOT APPROVED RAILS. BARRICADE RAILS OF FRANGIBLE PLASTICS SUCH AS PVC MAY NOT BE USED. IF APPROVED PLASTIC TYPE RAILS ARE USED, THEY MUST BE FLAME TREATED BY THE MANUFACTURER SO THAT REFLECTIVE SHEETING MAY ADHERE PROPERLY.

2) BARRICADES AND BARRICADE RAILS ARE APPROVED AS A SINGLE UNIT.

3) BARRICADE SHALL BE LIMITED TO A MAXIMUM LENGTH OF 2.4m UNLESS NCHRP 350 CRASH TESTED AND NCDOT APPROVED.

4) ONLY NCDOT APPROVED COMPOSITE AND ROLL-UP SIGNS MAY BE MOUNTED ON THE BARRICADE.

5) SIGNS MOUNTED ON BARRICADES SHOULD NOT COVER MORE THAN 50 PERCENT OF THE TOP TWO RAILS OR 33 PERCENT OF THE TOTAL AREA OF THE THREE RAILS.

6) USE TYPE VII, VIII OR IX SHEETING ON BOTH SIDES OF THE RAILS.

7) BARRICADE MUST BE NCHRP 350 AND NCDOT APPROVED WITH STABILIZER BAR OR ADEQUATE LATERAL BRACING.

8) ASSEMBLY OF THE GENERIC BARRICADES MUST BE SELF CERTIFIED BY THE ASSEMBLER.

9) BARRICADES USED TO CLOSE A ROADWAY SHALL EXTEND ACROSS THE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED PATTERN.

10) STRIPES ON WORK ZONE BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE RETROREFLECTIVE STRIPES, SLOPED DOWNWARD TOWARDS THE SIDE WHICH TRAFFIC IS TO PASS OR TURN IN DETOURING. WHERE NO TURNS ARE INTENDED, THE STRIPES SHOULD SLOPE DOWNWARD TOWARD THE CENTER OF THE BARRICADE OR BARRICADES. USE RED AND WHITE STRIPES FOR PERMANENT BARRICADES.

11) SEE APPROVED PRODUCTS LIST FOR MANUFACTURERS OF APPROVED BARRICADES.

12) PLACE MANUFACTURER'S NAME AND FEDERAL HIGHWAY ADMINISTRATION'S NCHRP 350 APPROVAL LETTER NUMBER ON BARRICADE.

13) USE SANDBAGS PLACED ON THE LOWER PART OF THE FRAME FOR BALLASTING. DO NOT PLACE SANDBAGS ON TOP OF A STRIPED RAIL. DO NOT BALLAST BARRICADES BY HEAVY OBJECTS SUCH AS ROCKS, CHUNKS OF CONCRETE OR OTHER ITEMS THAT WOULD CAUSE DAMAGE IF THE BARRICADE IS STRUCK BY A VEHICLE.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
1-05

METRIC STANDARD DRAWING FOR
BARRICADES
TYPE-III

SHEET 1 OF 1
1145D01

APPROVED: J.W. Woolard Jr. DATE: 5/8/06

SEAL

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

TYPE III BARRICADES

SCALE: NONE	REVISIONS
DATE:	
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	
CADD FILE	

04-MAY-2006 13:53
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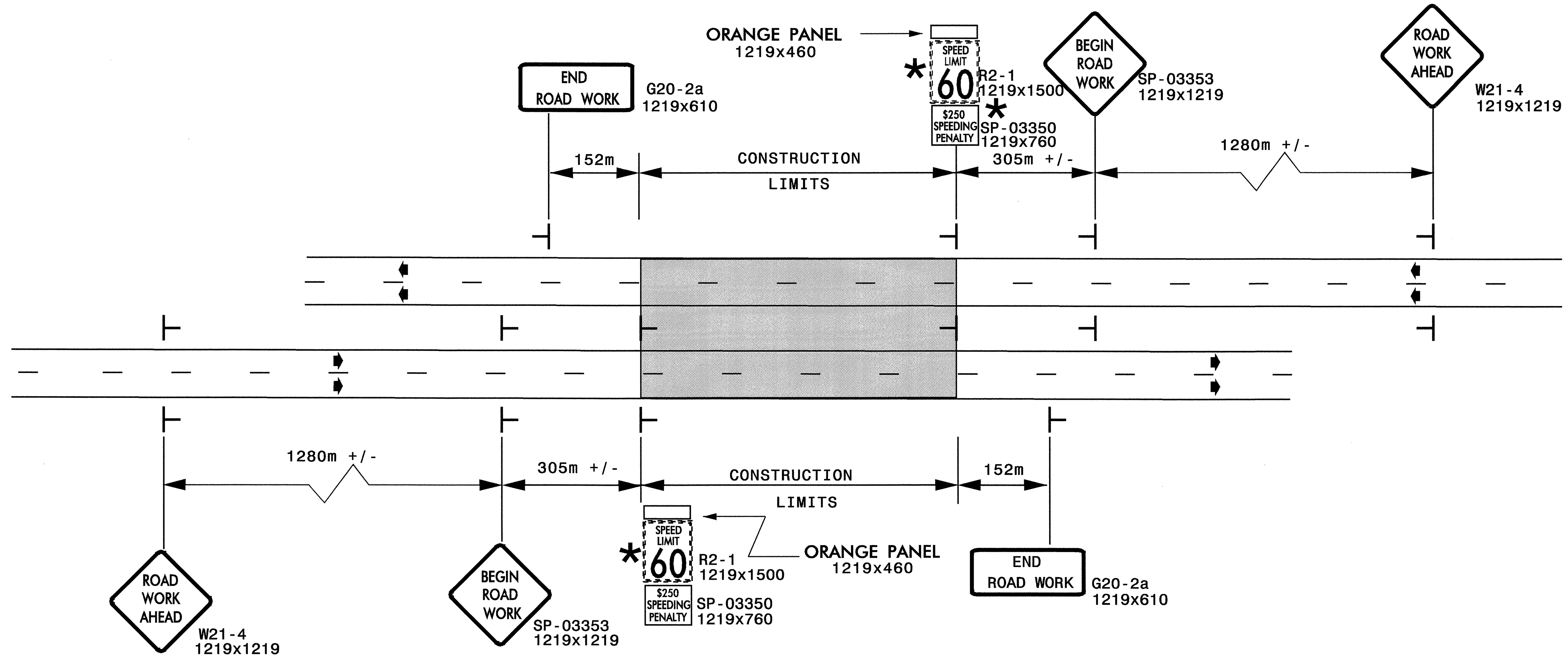
csmozingo AT WZTC224097

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

PROJ. REFERENCE NO.	SHEET NO.
R-0609IA	TCP-61

DETAIL A



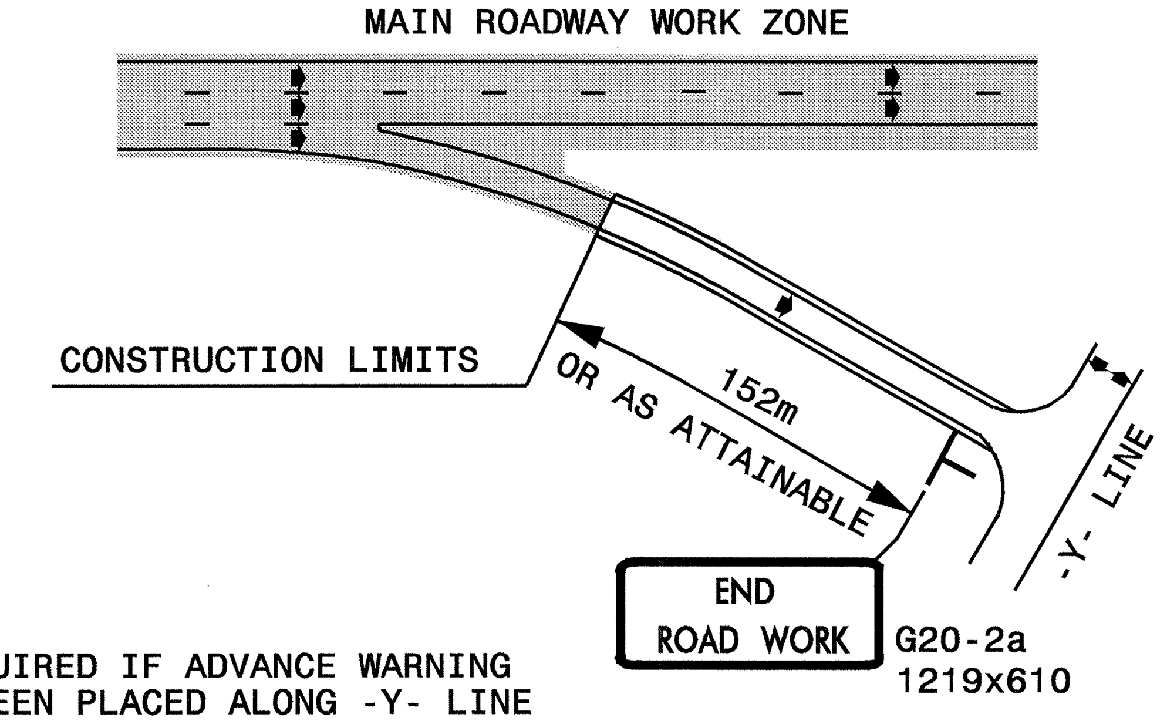
LEGEND

- ⊢ 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

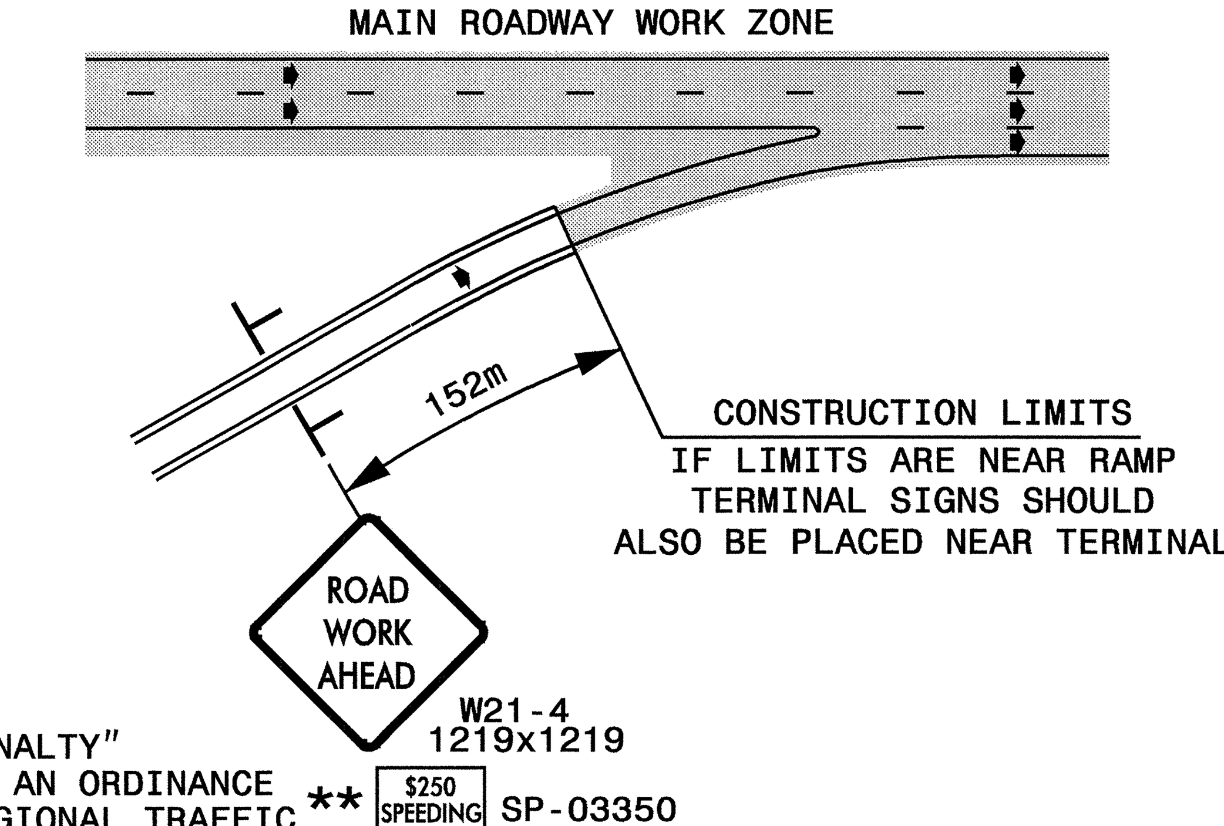
EXIT RAMPS



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

DETAIL C

ENTRANCE RAMPS

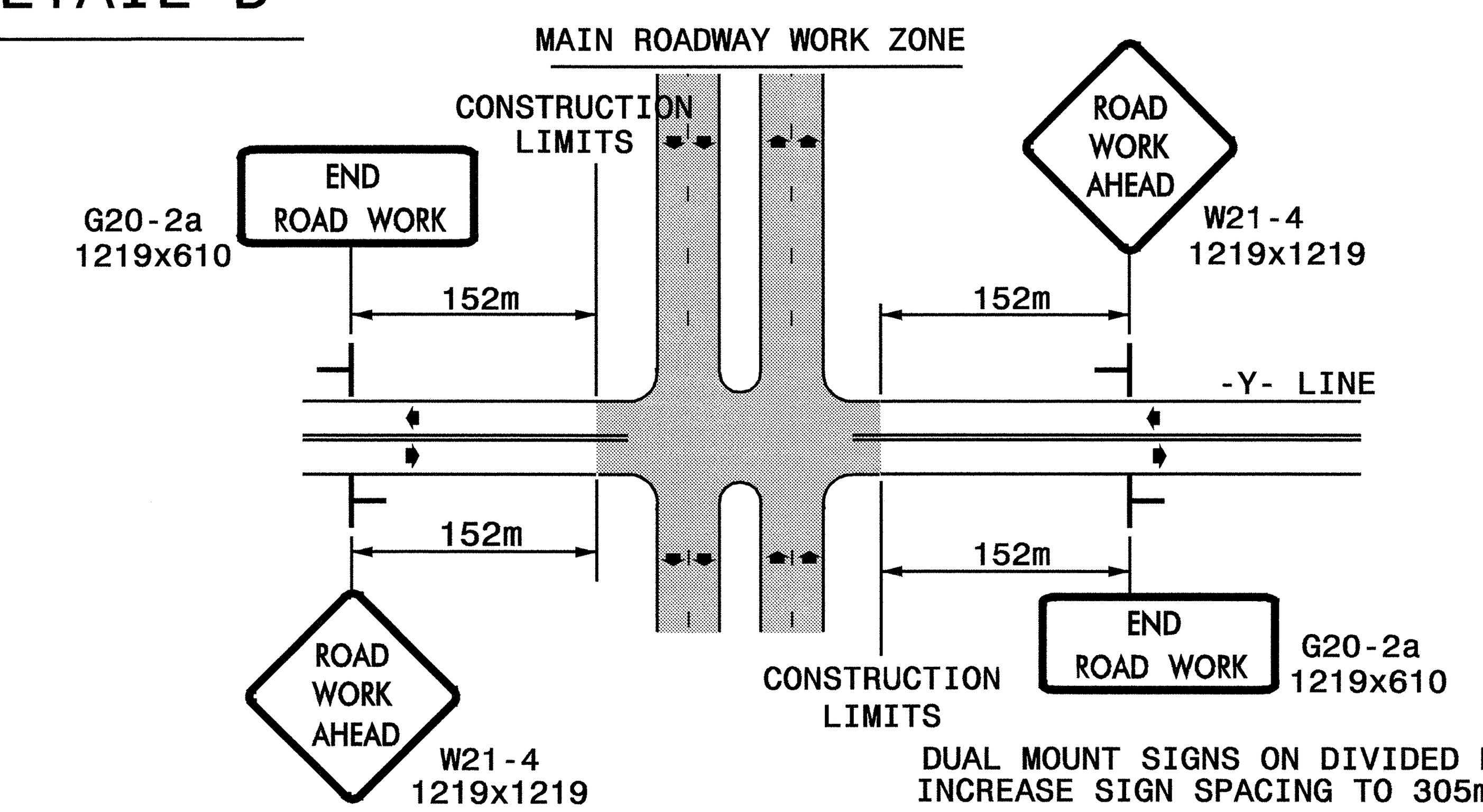


** USE THE "$250 SPEEDING PENALTY" SUPPLEMENTAL SIGN ONLY IF AN ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

** $250 SPEEDING PENALTY SP-03350 1219x760

DETAIL D

-Y- LINES



DUAL MOUNT SIGNS ON DIVIDED HIGHWAYS AND INCREASE SIGN SPACING TO 305m +/-.

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 1.4Kg STEEL U-CHANNEL POST OR 90mm X 90mm WOOD POST FOR ALL WORK ZONE SIGNS. 1.4Kg STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 1.4Kg STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 1.4Kg STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

APPROVED: J. W. Woolard, Jr. DATE: 5/8/06

SEAL — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 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:	

DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH TRAFFIC CONTROL UNIT — STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

REVISIONS	
03/04	
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csmozingo AT WZTC224097