

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



STATE PROJECT REFERENCE NO.	SHEET NO.
R -2301 A	TCP-1

**PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
JONES & CRAVEN COUNTIES**

R-2301A

TIP PROJECT:

ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL PLAN DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR - DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED 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 AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - TEMPORARY
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
1263.03	FLEXIBLE DELINEATOR INTERCHANGES

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-01	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, INDEX OF SHEETS, AND TEMP. PAVEMENT MARKING SCHEDULE.
TCP-02	PROJECT NOTES
TCP-03	PROJECT PHASING
TCP-04 TO TCP-08	PHASE I OVERVIEWS & DETAILS
TCP-09 TO TCP-11	PHASE II OVERVIEWS
TCP-11A	EASTBOUND US 70 OFF-SITE DETOUR DETAILS
TCP-11B	WESTBOUND US 70 OFF-SITE DETOUR DETAILS
TCP-12 TO TCP-13	ADVANCE WORK ZONE SIGNS DETAIL
PMP-01	PAVEMENT MARKING SCHEDULE
PMP-02 TO PMP-09	PAVEMENT MARKING PLANS

TEMP. PAV'T MARKING SCHEDULE

SYMBOL	DESCRIPTION	QUANTITY	PAY ITEM	TOTAL
PAVEMENT MARKING LINES				
PA	WHITE EDGELINE	1,718 M	PAINT (100 MM)	6,224 M
PB	YELLOW EDGELINE	704 M		
PC	3 M WHITE SKIP	239 M		
PD	0.5 m WHITE MINISKIP	37 M		
PE	WHITE SOLID LANE LINE	333 M		
PI	YELLOW DOUBLE CENTERLINE	3,194 M		
PV	YELLOW DIAGONAL	16 M	PAINT (200 MM)	16 M
P2	WHITE STOP BAR	10 M	PAINT (600 MM)	10 M
CA	WHITE EDGELINE	2,391 M	COLD APPLIED PLASTIC	5,381 M
CB	YELLOW EDGELINE	430 M	(TYPE IV-100 MM)	
CI	YELLOW DOUBLE CENTERLINE	2,602 M		
PAVEMENT MARKING SYMBOLS				
QC	STRAIGHT ARROW	4 EA	PAINT	4 EA
PAVEMENT MARKERS				
MH	YELLOW & YELLOW	120 EA	TEMPORARY RAISED	180 EA
MI	CRYSTAL & RED	60 EA		

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
 - TYPE II BARRICADE
 - TYPE III BARRICADE
 - CONE
 - DRUM
 - FLASHING ARROW PANEL (TYPE C)
 - TYPE 'B' WARNING LIGHT
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - WARNING FLAGS
 - 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

PLAN PREPARED FOR N.C.D.O.T. BY:

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APPROVED: _____
DATE: _____

SEAL

PLAN REVIEWED BY: N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION SECTION

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GENERAL NOTES



PROJ. REFERENCE NO.	SHEET NO.
R-2301A	TCP-02

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

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

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
1. US 17 (-Y1LT- & -Y-1)	MON- FRI 7:00 AM-9:00 AM MON- FRI 4:00 PM-6:00 PM
2. US 70 (-Y4-)	MON-THUR 6:00 AM-8:00 AM MON-THUR 4:00 PM-6:00 PM
EASTBOUND LANES	FRI 6:00 AM-8:00 AM 4:00 PM-8:00 PM
WESTBOUND LANES	FRI 6:00 AM-8:00 AM 4:00 PM-6:00 PM
	SUN 2:00 PM-8:00 PM

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

- ROAD NAME
1. US 17 (-Y1LT- & -Y1-)
 2. US 70 (-Y4-)

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 4:00 P.M. DECEMBER 31st TO 9:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 A.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 4:00 P.M. THURSDAY AND 9:00 A.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY TO 9:00 A.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 4:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 12:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 9:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY AND 9:00 A.M. TUESDAY.
7. FOR THANKSGIVING, BETWEEN THE HOURS OF 4:00 P.M. TUESDAY TO 9:00 A.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 4:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING MONDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROAD AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	OPERATION
1. US 70 (-Y4-)	MON- SUN 6:00 AM-10:00 PM	PLACING BRIDGE GIRDERS
2. TUSCARORA-RHEMS RD (SR 1224)	MON- SUN 6:00 AM-10:00 PM	PLACING 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 5 M OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 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 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 WITHIN 4.5m ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

J) DO NOT INSTALL MORE THAN 1 MILE OF OF LANE CLOSURE ON US 17 BYPASS MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON US 17.

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 AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 50mm ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 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 50mm IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 40mm. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 150 M IN ADVANCE AND A MINIMUM OF EVERY HALF 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 12m FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

Q) PROVIDE PERMANENT SIGNING.

R) PROVIDE 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) AND/OR "BUMP" SIGNS (W8-1) IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

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

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

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

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

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

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

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

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	4.6m
45 - 50	6m
55	7.6m
60 MPH OR HIGHER	9m

TRAFFIC CONTROL DEVICES

X) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 3m ON-CENTER IN RADI, AND 1m OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

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

Z) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 150m CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. PAVEMENT MARKINGS AND MARKERS

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
1. ALL ROADS	THERMOPLASTIC	SNOWPLOWABLE RAISED

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

ROAD NAME	MARKING	MARKER
1. US 17 (-Y1XOVER-)	REMOVABLE TAPE	TEMPORARY RAISED
2. ALL OTHER ROADS	PAINT	TEMPORARY RAISED

CC) PLACE TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE. PLACE THE SECOND APPLICATION OF PAINT UPON SUFFICIENT DRYING TIME OF THE FIRST.

DD) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

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

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

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

TEMPORARY / FINAL SIGNALS

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

MISCELLANEOUS

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

JJ) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

KK) PLACE DRUMS TO DELINEATE PROPOSED ISLANDS BEFORE INSTALLATION.

LOCAL NOTES

FOR GIRDER PLACEMENT OVER US 70 AND SR 1224 NOTIFY THE FOLLOWING DEPARTMENTS 2 DAYS PRIOR AND ALSO PROVIDE DAILY UPDATES WHILE ANY TRAFFIC PATTERNS ARE IN USE:

- CRAVEN COUNTY SHERIFF'S OFFICE: (252)636-6620
- CRAVEN COUNTY EMS DISPATCH OFFICE SUPERVISOR: STANLEY L. KITE (252) 636-6608
- JONES COUNTY SHERIFF'S OFFICE: (252)448-2561
- JONES COUNTY EMS DISPATCH OFFICE SUPERVISOR: CAROL TYNDALL (252)448-1221

APPROVED: _____	DATE: _____	<h2 style="margin: 0;">PROJECT NOTES</h2>							
	SCALE: NONE								
	DATE: 08-08			REVISIONS					
	DWG. BY: DWM			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50px; height: 20px;"> </td><td style="width: 50px; height: 20px;"> </td></tr> <tr><td style="width: 50px; height: 20px;"> </td><td style="width: 50px; height: 20px;"> </td></tr> </table>					
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CADD FILE	R2301A02.TCP								

PROJECT PHASING



PROJ. REFERENCE NO.	SHEET NO.
R-2301A	TCP- 03

PHASE I

- STEP 1) MAY BEGIN CONSTRUCTION OF PROPOSED US 17 (-L-) AT THE DIRECTION OF THE ENGINEER.
- STEP 2) INSTALL -Y- LINE WORK ZONE ADVANCE WARNING SIGNS ON ALL STATE AND LOCAL ROADS INVOLVED (TRENT ROAD (US 17), SIMMONS LOOP ROAD (SR 1330), TUSCARORA-RHEMS ROAD (SR 1224), AND US 70, ACCORDING TO TCP-12 (DETAILS 'A' & 'C') AND TCP-13.

NOTE: COMPLETE THE WORK OF PHASE I, STEP 2A IN ACCORDANCE WITH THE INTERMEDIATE CONTRACT TIME. CONTRACTOR MAY PROCEED TO PHASE I, STEP 3 PRIOR TO COMPLETION OF STEP 2A PROVIDED THE INTERMEDIATE CONTRACT TIME IS ADHERED TO.

- STEP 2A) USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9) AND FLAGGERS, CONSTRUCT -Y1A- (US 17 LEFT TURN LANE AT SR 1224) UP TO EDGE AND ELEVATION. USING ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.05, PLACE TEMPORARY PAVEMENT MARKING (PAINT) AND TEMPORARY RAISED MARKERS ACCORDING TO THE FOLLOWING STATIONS (SEE OVERVIEW AND DETAIL ON TCP-09 AND PMP-02):
- Y1A- STA. 5+60 +/- TO STA. 7+32 +/-
- AND OPEN TURN LANE TO TRAFFIC.
- STEP 3) USING ROADWAY STANDARD 1101.02 (SHEET 3 OF 9) AND FLAGGERS, SHIFT US 17 TRAFFIC TO THE OUTSIDE LANES AND TEMPORARILY CLOSE THE INSIDE LANES OF NORTHBOUND AND SOUTHBOUND US 17. CONSTRUCT -Y1XOVER- (US 17 SOUTHBOUND MEDIAN CROSS-OVER) AND TEMPORARY DRAINAGE AS SHOWN ON ROADWAY PLAN SHEET 2-M AND TCP-04.
- STEP 4) USING ROADWAY STANDARD DRAWINGS 1205.01, 1250.01, AND 1251.01, PLACE PAVEMENT MARKING (COLD APPLIED PLASTIC TYPE IV REMOVABLE TAPE) AND TEMPORARY RAISED MARKERS ON US 17 AND MEDIAN CROSS-OVER ACCORDING TO THE FOLLOWING STATIONS (SEE DETAIL ON TCP-04):
- 40 m +/- IN ADVANCE OF -Y1LT- STA. 10+00 TO STA. 13+64.625
 -Y1- STA. 16+97.996 TO STA. 22+15.000
 -Y1XOVER- STA. 10+00.000 +/- TO 350 m +/- BEYOND STA. 13+37+/-
- STEP 5) USING ROADWAY STANDARD DRAWINGS 1101.04 AND FLAGGERS, CLOSE THE SHOULDER TO PLACE CHANGEABLE MESSAGE SIGN, ADVANCED WARNING SIGNS, AND DRUMS IN PREPARATION FOR SOUTHBOUND TRAFFIC SHIFT (SEE DETAIL ON TCP-05).
- USING ROADWAY STANDARD DRAWINGS 1101.03 (SHEET 8 OF 9), 1205.01, 1250.01 AND FLAGGERS FOR TEMPORARY LANE CLOSURES, MOVE DRUMS INTO PLACE AND PLACE TEMPORARY PAVEMENT MARKING (PAINT) AND MARKERS ON US 17 TO COMPLETE THE TEMPORARY TRAFFIC SHIFT ACCORDING TO THE FOLLOWING STATIONS (SEE DETAILS ON TCP-04 THRU TCP-06):
- Y1LT- STA. 10+80 +/- TO STA. 13+64 +/-
 -Y1- STA. 16+98 +/- TO STA. 22+15 +/-
 US 17 AT MEDIAN CROSS-OVER LOCATION
- USING FLAGGERS, SHIFT SOUTHBOUND TRAFFIC ONTO US 17 MEDIAN CROSS-OVER AND MAINTAIN NORTHBOUND TRAFFIC IN OUTSIDE LANE THRU -Y1- WORK ZONE.
- STEP 6) WORKING AWAY FROM TRAFFIC OR USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 1 OF 9) AND FLAGGERS, BEGIN CONSTRUCTION OF -Y1- (US 17), AND -Y6- SIMMONS LOOP RD (SR 1330) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, ACCORDING TO THE FOLLOWING STATIONS (SEE DETAILS ON TCP-06 AND TCP-10):
- Y1LT- STA. 10+80 +/- TO STA. 13+64 +/-
 -Y1- STA. 16+98 +/- TO STA. 21+50 +/-
 -Y6- STA. 10+20 +/- TO STA. 10+50 +/- (WEDGE & WIDEN)
- THE LANE CLOSURE LENGTH ON US 17 SHALL ONLY BE THE AMOUNT OF ROAD THAT CAN BE UNDERCUT AND BACKFILLED UP TO EDGE AND ELEVATION DURING ONE DAY'S OPERATIONS.
- STEP 7) COMPLETE CONSTRUCTION OF -Y6- SIMMONS LOOP ROAD (SR 1330) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND USING ROADWAY STANDARD DRAWING 1205.01 AND 1205.02, PLACE TEMPORARY PAVEMENT MARKING (PAINT) FOR TWO-LANE, TWO-WAY TRAFFIC ACCORDING TO THE FOLLOWING STATIONS (SEE TCP-06):
- Y6- STA. 10+20 +/- TO STA. 10+50 +/-
- PLACE DRUMS TO ACCESS US 17 AS SHOWN IN THE DETAIL ON TCP-06 AND OPEN -Y6- FULLY TO TRAFFIC.
- STEP 8) USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 1 OF 9) FOR ALTERNATING LANE CLOSURES ON US 17, COMPLETE WEDGING AND WIDENING OF Y1 (US 17) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE DETAIL ON TCP-07).
- USING ROADWAY STANDARD DRAWINGS 1101.02 (SHEETS 1 AND 3 OF 9) AND 1205.01, 1205.02, 1205.04, 1205.05, 1250.01 AND 1251.01 REMOVE CONFLICTING PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND TEMPORARY RAISED MARKERS ON -Y1LT- AND -Y1- ACCORDING TO THE FOLLOWING STATIONS (SEE DETAIL ON TCP-08):
- Y1LT- STA. 10+08 +/- TO STA. 13+64 +/-
 -Y1- STA. 16+98 +/- TO STA. 21+50 +/-
 US 17 LANES AT CROSS-OVER
- USING FLAGGERS, OPEN ALL LANES OF -Y1- US 17 TO TRAFFIC. PLACE DRUMS AND BARRICADES TO CLOSE BYPASS (-L-) AS SHOWN ON THE DETAIL ON TCP-08.
- STEP 9) USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9) AND FLAGGERS TO CLOSE THE INSIDE LANES OF US 17, REMOVE THE MEDIAN CROSS-OVER AND ASSOCIATED TEMPORARY DRAINAGE.
- COMPLETE PHASE I CONSTRUCTION OF -Y1LT- AND -Y1- AND OPEN TO TRAFFIC.

PHASE II

- STEP 1) WITHOUT INTERFERING WITH TRAFFIC, BEGIN DRAINAGE, BRIDGES AND ROAD CONSTRUCTION OF PROPOSED US 17 -L-, RAMP, AND LOOPS, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, ACCORDING TO THE FOLLOWING STATIONS (SEE OVERVIEWS ON TCP-09 THRU TCP-11). USE TEMPORARY CONSTRUCTION SLOPES WHERE NECESSARY:
- L- STA. 9+81 +/- TO STA. 29+70 +/-
 -L- STA. 30+40 +/- TO STA. 96+50 +/-
 -L- STA. 97+38 +/- TO STA. 98+80 +/-
 -L- STA. 98+80 +/- TO STA. 99+40 (GRADING ONLY)
- LOOP A STA. 0+00 +/- TO STA. 4+20 +/- (AT US 70)
 LOOP B STA. 0+00 +/- TO STA. 4+40 +/- (AT US 70)
 (STA. 0+90 +/- TO STA. 4+40 +/- GRADING ONLY)
 LOOP C STA. 0+00 +/- TO STA. 4+20 +/- (AT US 70)
 (STA. 0+90 +/- TO STA. 4+20 +/- GRADING ONLY)
 LOOP D STA. 0+00 +/- TO STA. 4+40 +/- (AT US 70)
- RAMP A STA. 3+58 +/- TO STA. 6+80 +/- (AT US 70 GRADING ONLY)
 RAMP B STA. 0+00 +/- TO STA. 7+00 +/- (AT US 70)
 RAMP C STA. 0+00 +/- TO STA. 8+00 +/- (AT US 70)
 RAMP D STA. 3+60 +/- TO STA. 7+80 +/- (AT US 70 GRADING ONLY)
- USING ROADWAY STANDARD DRAWING 1101.05, PLACE "TRUCK ENTRANCE" SIGNS IN ADVANCE OF HAULING ACCESS ROADS AT US 17, TUSCARORA-RHEMS ROAD (SR 1224), AND THE ACCESS POINTS IN BARRIER ON US 70.
- STEP 2) DETOUR TUSCARORA-RHEMS ROAD TRAFFIC AS DIRECTED BY THE ENGINEER WHEN HANGING GIRDERS AND CONTINUE PROPOSED CONSTRUCTION OF -L- AND BRIDGES ACCORDING TO THE FOLLOWING STATIONS (SEE OVERVIEW ON TCP-09):
- L- STA. 29+70 +/- TO STA. 30+40 +/-
- STEP 3) USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9) AND FLAGGERS, PLACE TEMPORARY PAVEMENT AND PORTABLE CONCRETE BARRIER ACCORDING TO THE FOLLOWING STATIONS (SEE DETAIL ON TCP-11) OR AS DIRECTED BY THE ENGINEER:
- Y4- STA. 3+83 TO 10+30 LT OUTSIDE
 -Y4- STA. 11+60 TO 15+60 LT OUTSIDE
 -Y4- STA. 13+09 TO 14+51 LT MEDIAN
 -Y4- STA. 18+05 TO 23+79 LT OUTSIDE
- Y4- STA. 5+33 TO 9+95 RT OUTSIDE
 -Y4- STA. 12+00 TO 15+70 RT OUTSIDE
 -Y4- STA. 12+83 TO 14+27 RT MEDIAN
 -Y4- STA. 17+00 TO 23+53 RT OUTSIDE
- BEGIN CONSTRUCTION BEHIND BARRIER, INCLUDING BRIDGES, OF PROPOSED US 17 -L-, LOOPS, RAMPS, AND -Y4- US 70, ACCORDING TO THE FOLLOWING STATIONS (SEE OVERVIEW ON TCP-11):
- L- STA. 96+50 +/- TO -L- STA. 97+38 +/-
 -Y4- STA. 3+99 +/- TO STA. 23+43 +/- (WBL)
 -Y4- STA. 5+69 +/- TO STA. 23+43 +/- (EBL)
- LOOP A STA. 4+20 +/- TO STA. 5+21 +/- (AT US 70)
 LOOP B STA. 4+40 +/- TO STA. 5+33 +/- (AT US 70)
 LOOP C STA. 4+20 +/- TO STA. 5+21 +/- (AT US 70)
 LOOP D STA. 4+40 +/- TO STA. 5+33 +/- (AT US 70)
- RAMP A STA. 6+80 +/- TO STA. 8+07 +/- (AT US 70)
 RAMP B STA. 7+00 +/- TO STA. 8+49 +/- (AT US 70)
 RAMP C STA. 8+00 +/- TO STA. 9+23 +/- (AT US 70)
 RAMP D STA. 7+80 +/- TO STA. 9+46 +/- (AT US 70)
- INSTALL THE OFF-SITE DETOUR SIGNS SHOWN IN THE DETAIL ON TCP-11A OR TCP-11B ACCORDINGLY. USING ROADWAY STANDARD DRAWING 1101.03 (SHEET 7 OF 9), DETOUR ONE DIRECTION OF US 70 TRAFFIC AT A TIME TO HANG GIRDERS (EASTBOUND AT CLARK ROAD EXIT OR WESTBOUND US 70 TRAFFIC AT THE NC 43 GLENBURNIE ST EXIT).
- REMOVE DETOUR AT US 70 EXIT, COVER SIGNS ALONG DETOUR ROUTE, AND OPEN EASTBOUND OR WESTBOUND US 70 FULLY TO TRAFFIC AT THE END OF THE TIME RESTRICTION EACH MORNING.

PHASE III

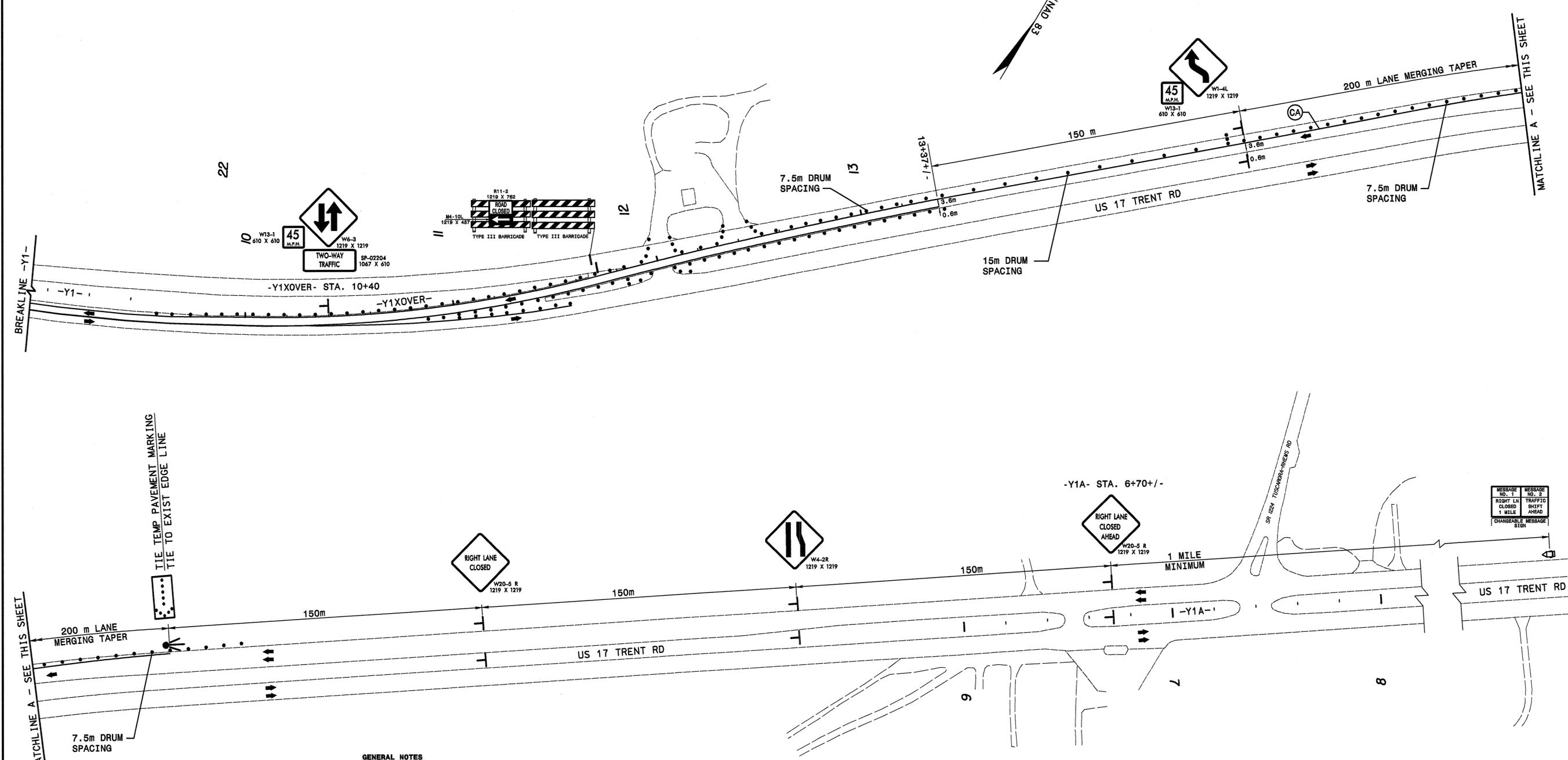
- STEP 1) COMPLETE ALL CONSTRUCTION BEGUN IN PHASE II.
- STEP 2) USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9) AND FLAGGERS, INSTALL AND COVER PROPOSED TRAFFIC SIGNAL ON -Y1- AT BYPASS.
- STEP 3) USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 AND 3 OF 9) AND FLAGGERS, OR WITHOUT INTERFERING WITH TRAFFIC, PLACE THE FINAL LAYER OF SURFACE COURSE AND MONOLITHIC CONCRETE ISLANDS, ACCORDING TO THE FOLLOWING STATIONS:
- L- STA. 9+81 +/- TO STA. 98+80 +/-
 LOOP A STA. 0+00 +/- TO STA. 5+21 +/-
 LOOP B STA. 0+00 +/- TO STA. 1+08 +/-
 LOOP B STA. 4+40 +/- TO STA. 5+33 +/-
 LOOP C STA. 0+00 +/- TO STA. 0+90 +/-
 LOOP C STA. 4+17 +/- TO STA. 5+21 +/-
 LOOP D STA. 0+00 +/- TO STA. 5+33 +/-
 RAMP A STA. 6+95 +/- TO STA. 8+07 +/-
 RAMP B STA. 0+00 +/- TO STA. 8+49 +/-
 RAMP C STA. 0+00 +/- TO STA. 9+23 +/-
 RAMP D STA. 7+80 +/- TO STA. 9+46 +/-
- Y1LT- STA. 10+09 +/- TO STA. 13+64 +/-
 -Y1- STA. 16+98 +/- TO STA. 21+50 +/-
 -Y1A- STA. 5+60 +/- TO -L- STA. 7+32 +/-
 -Y6- STA. 10+20 +/- TO STA. 10+50 +/-
- USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 1 AND 3 OF 9) AND FLAGGERS, OR WITHOUT INTERFERING WITH TRAFFIC, AND USING ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.03, 1205.04, 1205.05, 1205.06, 1205.08, 1205.09, 1205.12, 1250.01, AND 1251.01, PLACE PERMANENT PAVEMENT MARKINGS (THERMOPLASTIC & COLD APPLIED PLASTIC, TYPE III) AND SNOWPLOWABLE RAISED PAVEMENT MARKERS ACCORDING TO THE FOLLOWING STATIONS (SEE PMP-02 THRU PMP-06):
- L- STA. 10+00 +/- TO STA. 98+38 +/-
- LOOP A STA. 0+00 +/- TO STA. 5+21 +/-
 LOOP D STA. 0+00 +/- TO STA. 5+33 +/-
 RAMP B STA. 0+00 +/- TO STA. 8+49 +/-
 RAMP C STA. 0+00 +/- TO STA. 9+23 +/-
- Y1LT- STA. 10+09 +/- TO STA. 13+64 +/-
 -Y1- STA. 16+98 +/- TO STA. 21+50 +/-
 -Y1A- STA. 5+60 +/- TO -L- STA. 7+32 +/-
 -Y6- STA. 10+20 +/- TO STA. 10+50 +/- (PAINT)
- USING ROADWAY STANDARD DRAWING 1101.02 (SHEET 3 OF 9), REMOVE PORTABLE CONCRETE BARRIER PLACED ON -Y4- (US 70) IN PHASE II, STEP 4, AND PLACE THE OVERLAY OF SURFACE COURSE, PAVEMENT MARKINGS (THERMOPLASTIC) AND SNOWPLOWABLE RAISED PAVEMENT MARKERS, ACCORDING TO THE FOLLOWING STATIONS (SEE DETAIL ON PMP-07 THRU PMP-08):
- Y4- STA. 3+99 +/- TO STA. 23+43 +/- (WBL)
 -Y4- STA. 5+69 +/- TO STA. 23+43 +/- (EBL)
- STEP 4) USING ROADWAY STANDARD DRAWING 1101.02 (SHEETS 3 OF 9) AND FLAGGERS, UNCOVER THE SIGNAL AT -Y1- AND -L-.
 COORDINATE ACCESS TO BYPASS AT US 70 INTERCHANGE AND US 17 INTERSECTION AND OPEN ALL ROADS FULLY TO TRAFFIC.

APPROVED: _____	DATE: _____	<h2 style="margin: 0;">PROJECT PHASING</h2>	
	SCALE: NONE		
	DATE: 10-08		
	DWG. BY: DWA		
	DESIGN BY: MDL		
REVIEWED BY: JAK	REVISIONS		
CARD FILE	R2301A03.TCP		

SEE TCP-01 FOR TEMPORARY PAVEMENT MARKING SCHEDULE



PROJ. REFERENCE NO. R-2301A	SHEET NO. TCP- 05
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GENERAL NOTES
 -FOR UNDIVIDED AND TWO LANE-TWO WAY ROADWAYS, SIGNS ARE REQUIRED ONLY ON THE RIGHT SIDE OF THE ROADWAY.
 -SEE SHEET TCP-12 AND TCP-13 FOR ALL OTHER WORK ZONE SIGNS SIZE AND SPACING.

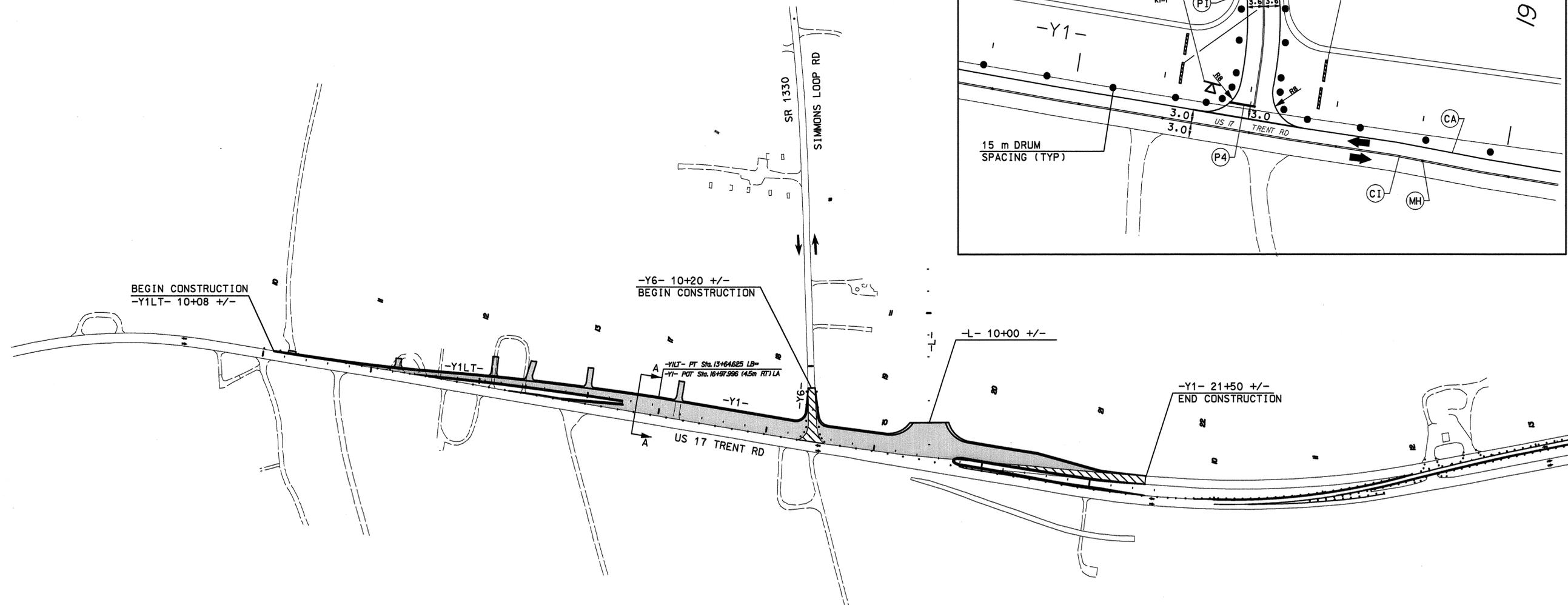
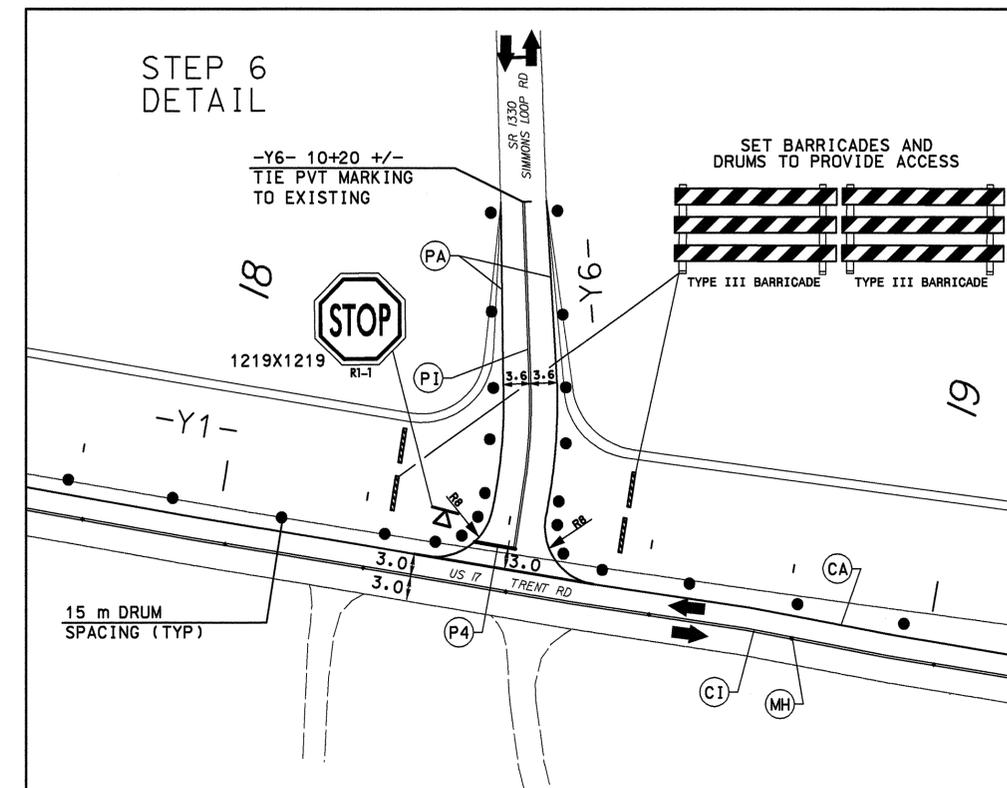
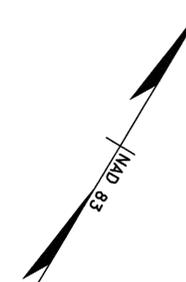
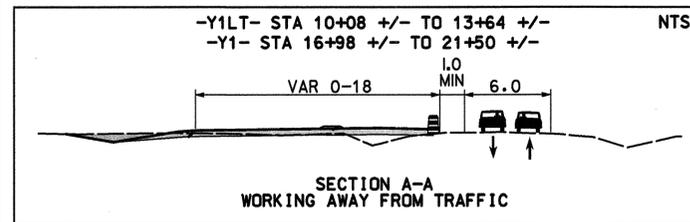
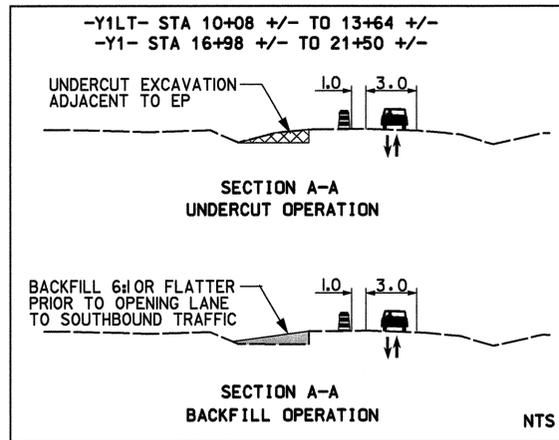
PHASE I
 STEPS 2 & 4

APPROVED: _____ DATE: _____	PHASE I DETAIL	
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DESIGN BY: MDL		
REVIEWED BY: JAK		CADD FILE: R2301A_TC_TCP05.DGN



PROJ. REFERENCE NO.	SHEET NO.
R-2301A	TCP-06

TEMP. PAVEMENT MARKING	
PA	WHITE EDGELINE 100mm
PI	YELLOW DBL CTR LINE 100mm
P4	WHITE STOP BAR 600mm
CA	WHITE EDGELINE 100mm (REM TAPE)
CI	YELLOW DBL CTR LINE 100mm (REM TAPE)
MH	YEL & YEL TEMP RAISED



PHASE I - STEPS 4 & 5

LEGEND	
	FULL DEPTH CONSTRUCTION
	WEDGING AND WIDENING

APPROVED: _____ DATE: _____

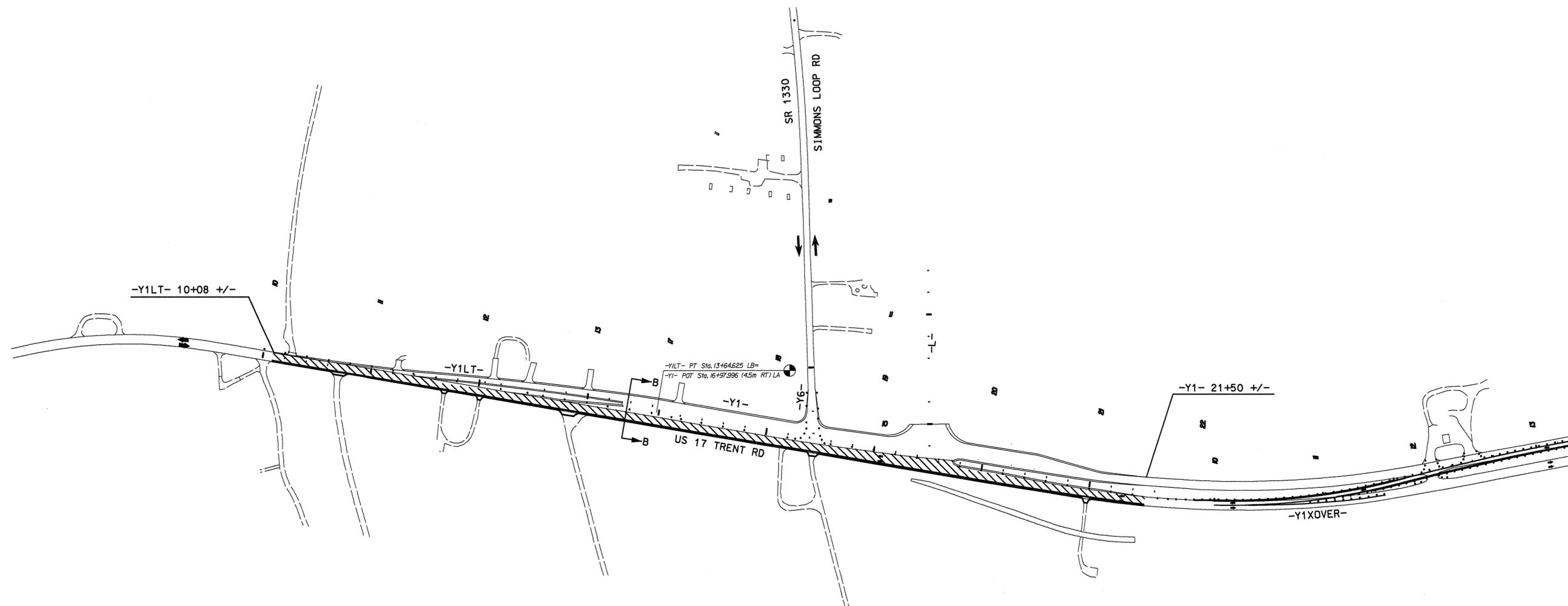
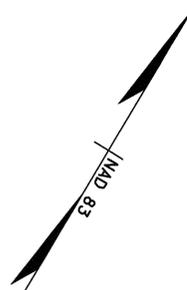
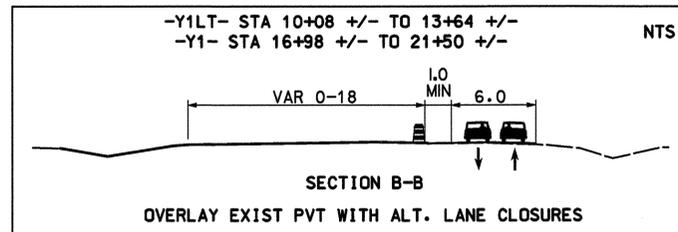
SEAL

7/6/06

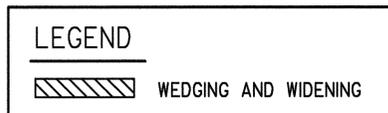
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PROJ. REFERENCE NO.	SHEET NO.
R-2301A	TCP-07



PHASE I - STEP 7

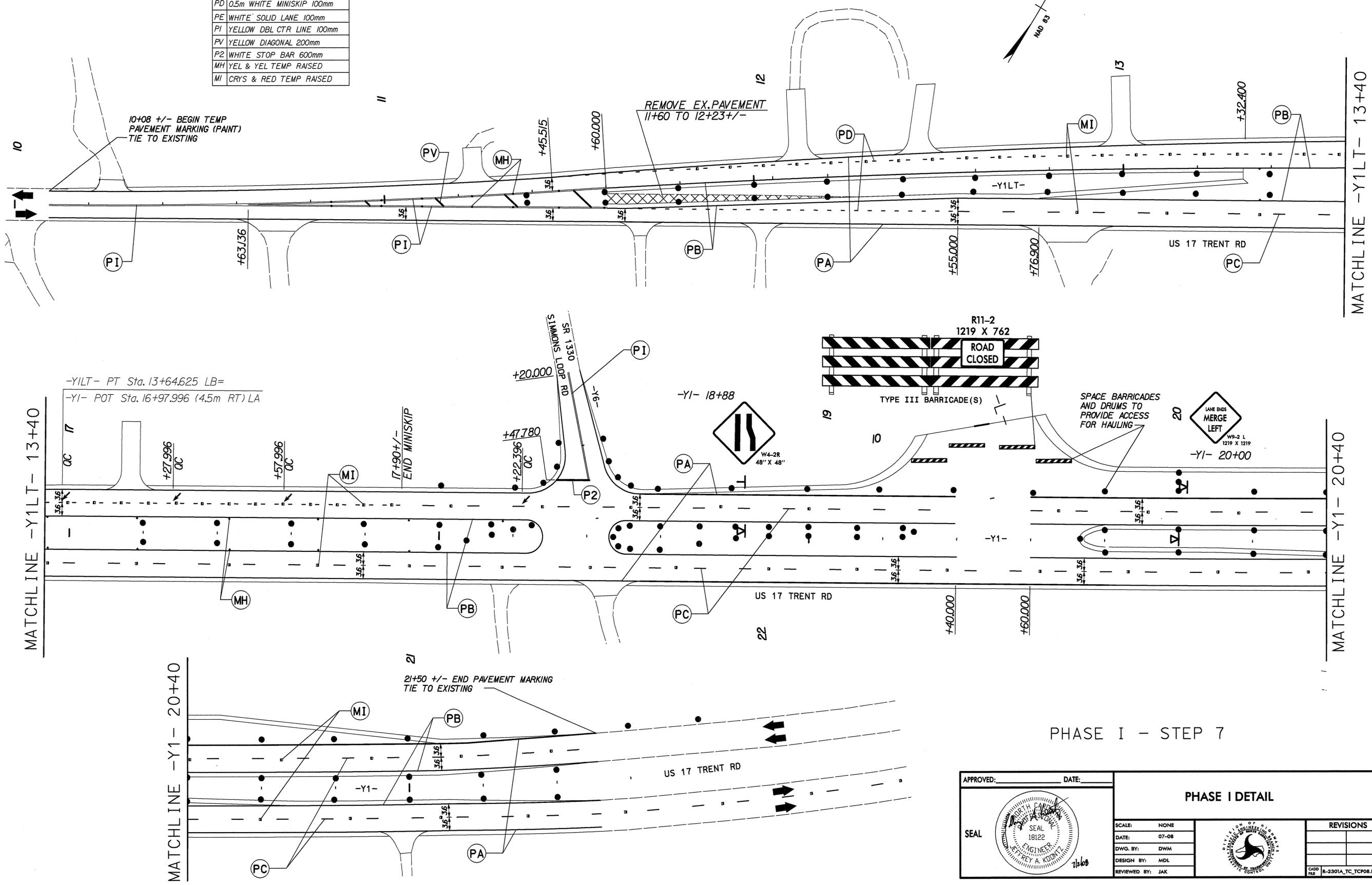


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PROJ. REFERENCE NO. R-2301A	SHEET NO. TCP- 08
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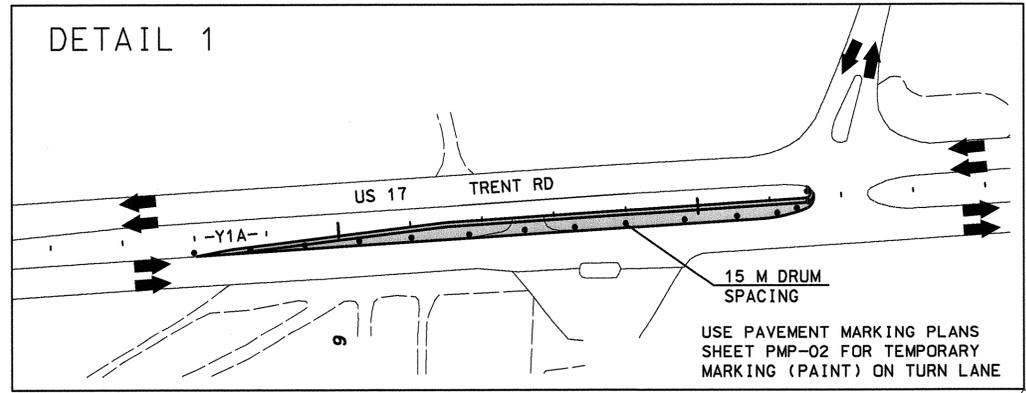
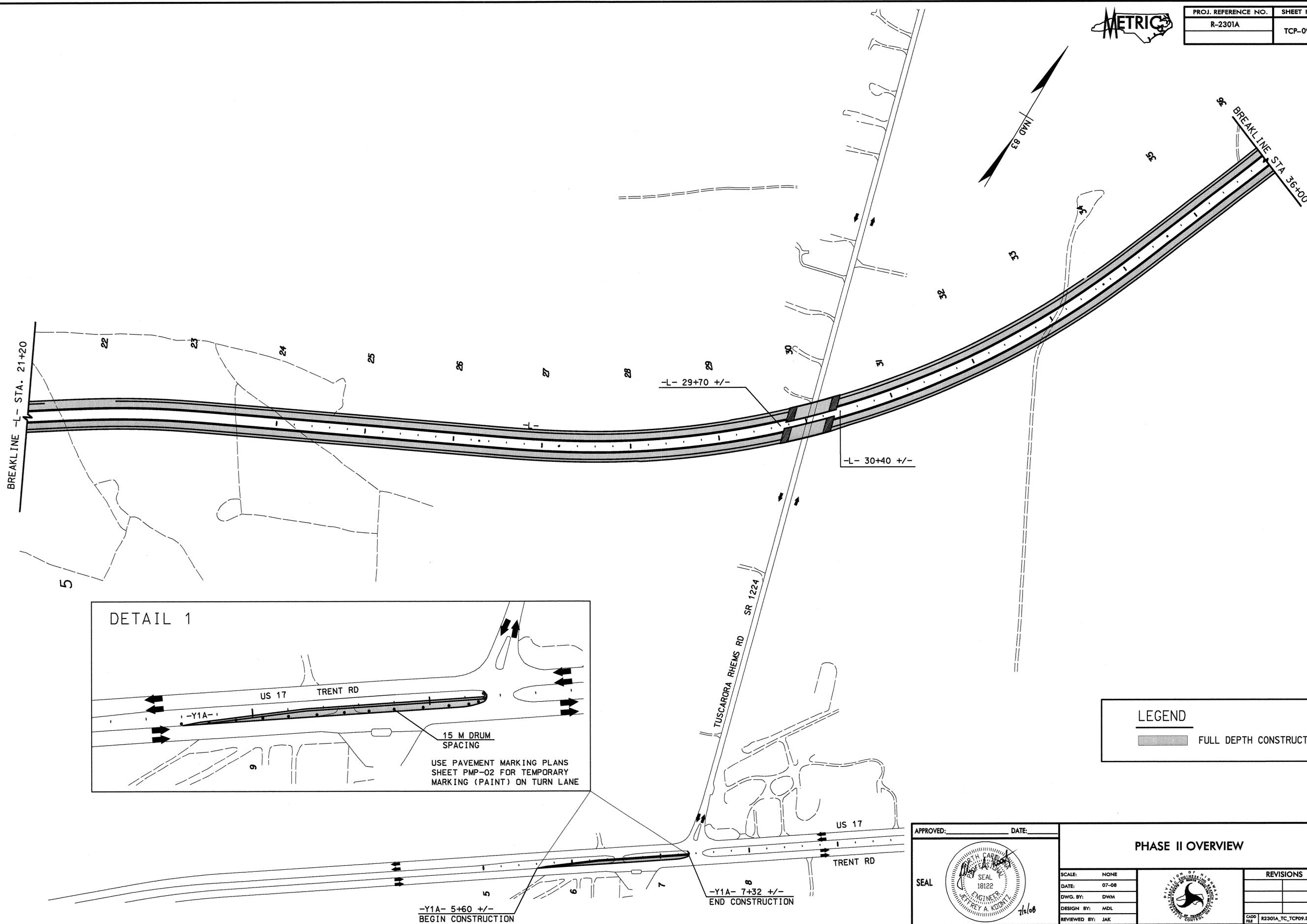
TEMP. PAVEMENT MARKING PAINT (2X)	
PA	WHITE EDGELINE 100mm
PB	YELLOW EDGELINE 100mm
PC	3m WHITE SKIP 100mm
PD	0.5m WHITE MINISKIP 100mm
PE	WHITE SOLID LANE 100mm
PI	YELLOW DBL CTR LINE 100mm
PV	YELLOW DIAGONAL 200mm
P2	WHITE STOP BAR 600mm
MH	YEL & YEL TEMP RAISED
MI	CRYS & RED TEMP RAISED



APPROVED: _____ DATE: _____	PHASE I DETAIL		REVISIONS	
SEAL			SCALE: NONE	DATE: 07-08
	DESIGN BY: MDL	REVIEWED BY: JAK	CAD FILE: R-2301A_TC_TCP08.DGN	



PROJ. REFERENCE NO. R-2301A	SHEET NO. TCP-09
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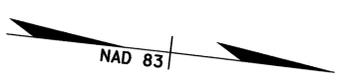
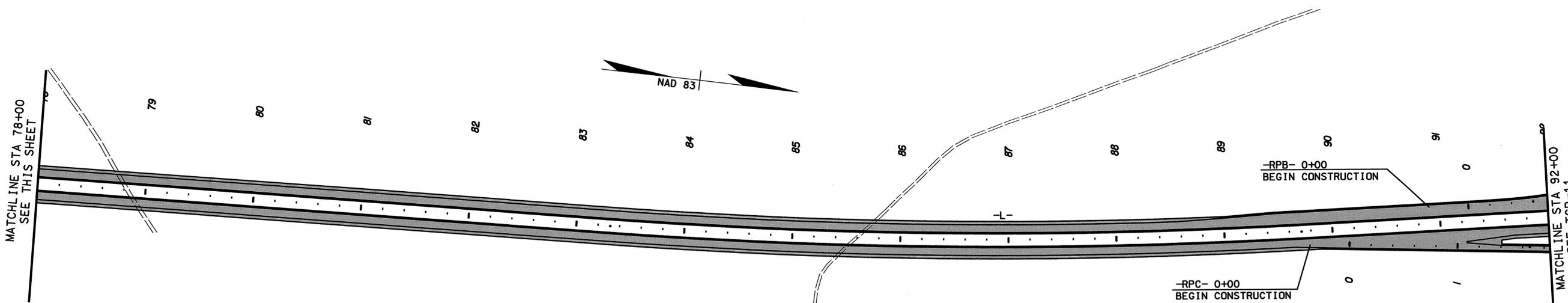
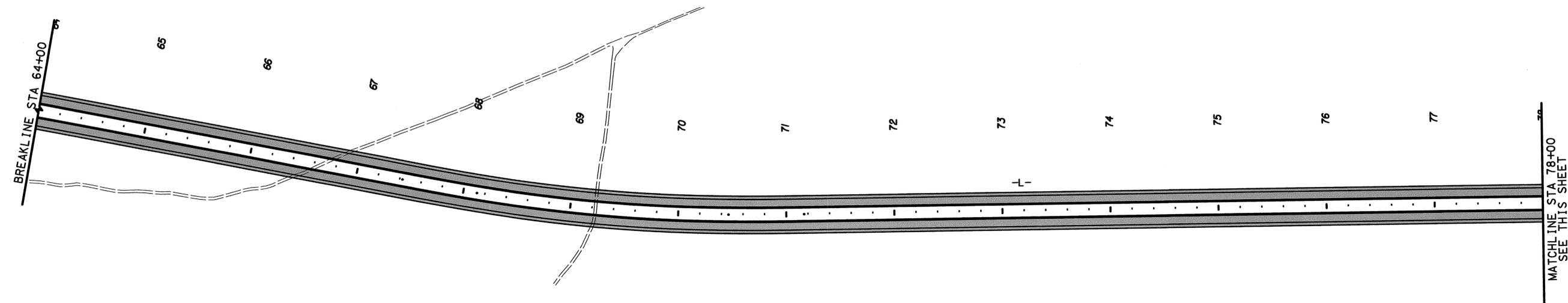
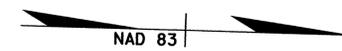


LEGEND	
	FULL DEPTH CONSTRUCTION

APPROVED: _____	DATE: _____	PHASE II OVERVIEW							
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PROJ. REFERENCE NO. R-2301A	SHEET NO. TCP-10
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PHASE II - STEP 1

LEGEND

FULL DEPTH CONSTRUCTION

APPROVED: _____ DATE: _____

SEAL

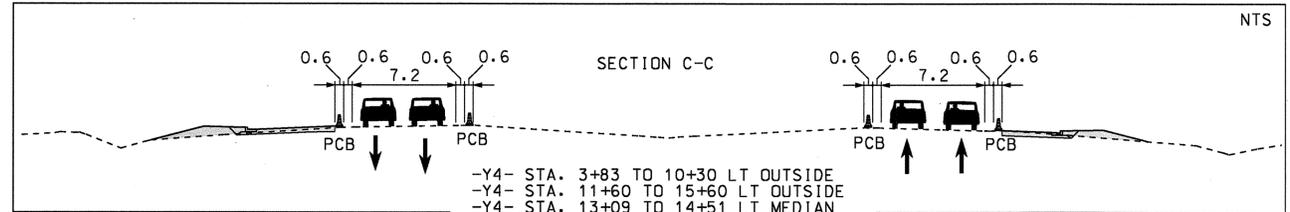
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REVIEWED BY: JAK			

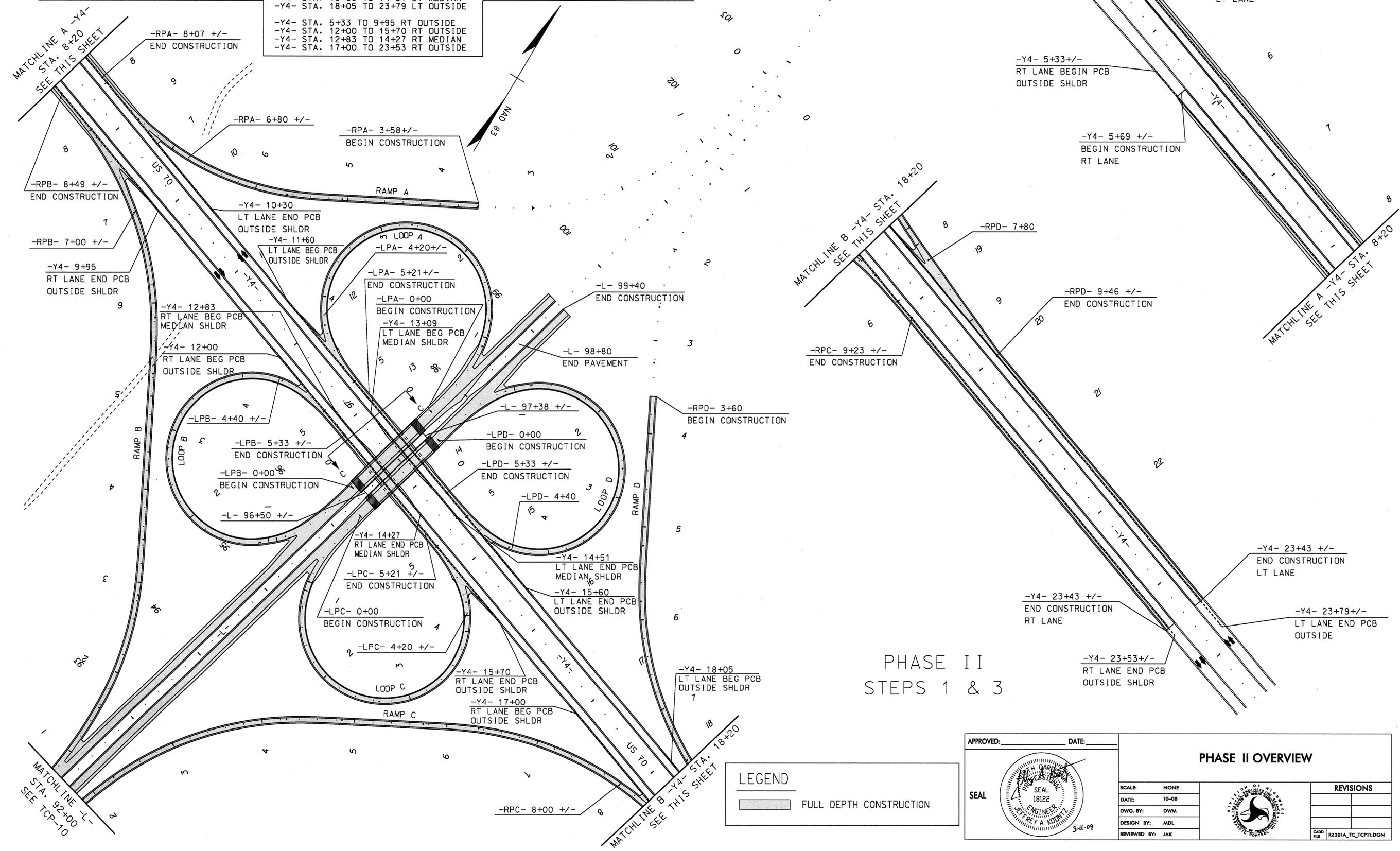
CARD FILE R2301A_TC_TCP10.DGN



PROJ. REFERENCE NO.	SHEET NO.
R-2301A	TCP-11



- Y4- STA. 3+83 TO 10+30 LT OUTSIDE
- Y4- STA. 11+60 TO 15+60 RT OUTSIDE
- Y4- STA. 13+09 TO 14+51 LT MEDIAN
- Y4- STA. 18+05 TO 23+79 LT OUTSIDE
- Y4- STA. 5+33 TO 9+95 RT OUTSIDE
- Y4- STA. 12+00 TO 15+70 RT OUTSIDE
- Y4- STA. 12+83 TO 14+27 RT MEDIAN
- Y4- STA. 17+00 TO 23+53 RT OUTSIDE



PHASE II
STEPS 1 & 3

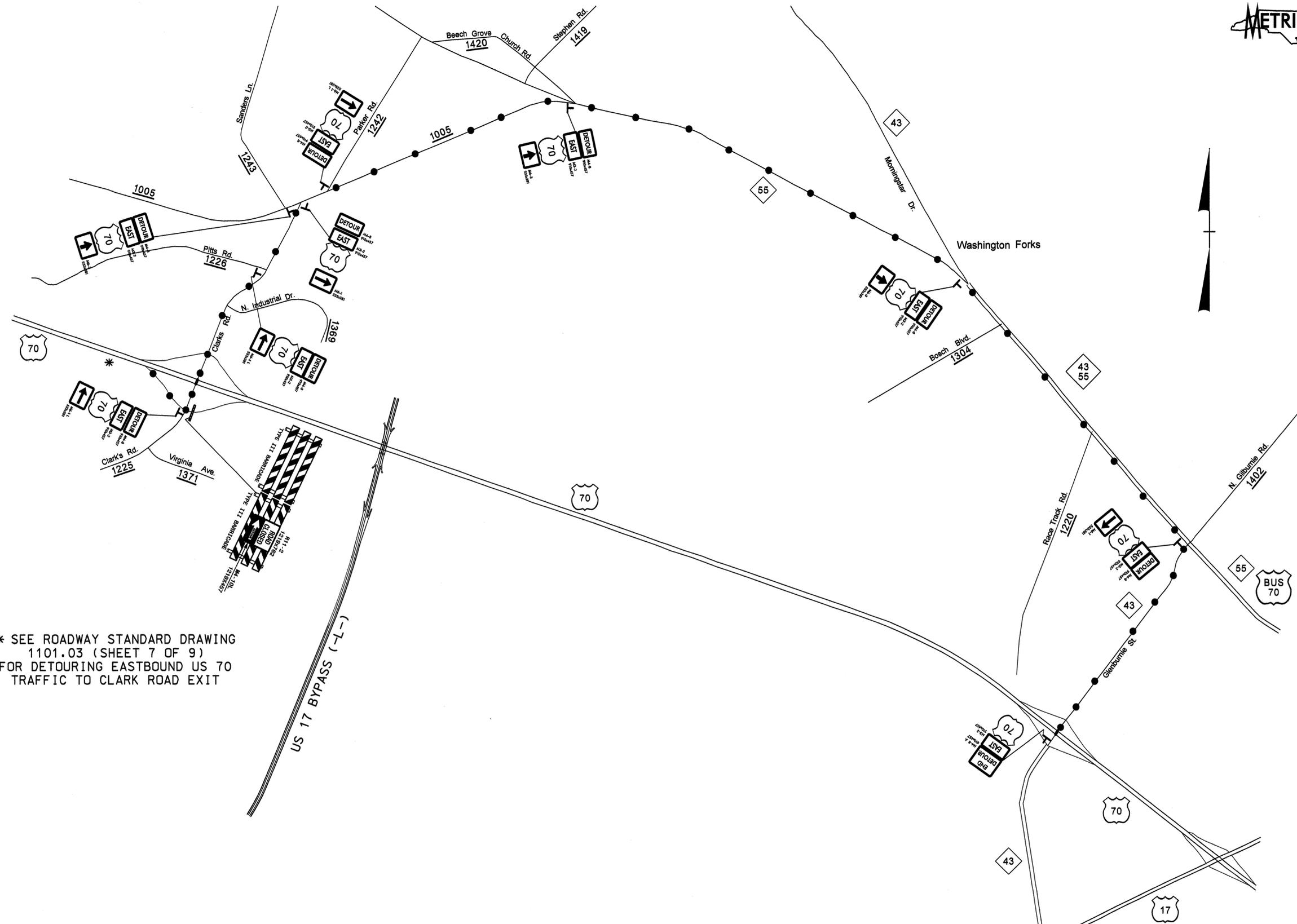
LEGEND

FULL DEPTH CONSTRUCTION

APPROVED:	DATE:	PHASE II OVERVIEW							
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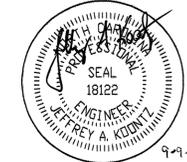
PROJ. REFERENCE NO.	SHEET NO.
R-2301A	TCP-11A



* SEE ROADWAY STANDARD DRAWING
1101.03 (SHEET 7 OF 9)
FOR DETOURING EASTBOUND US 70
TRAFFIC TO CLARK ROAD EXIT

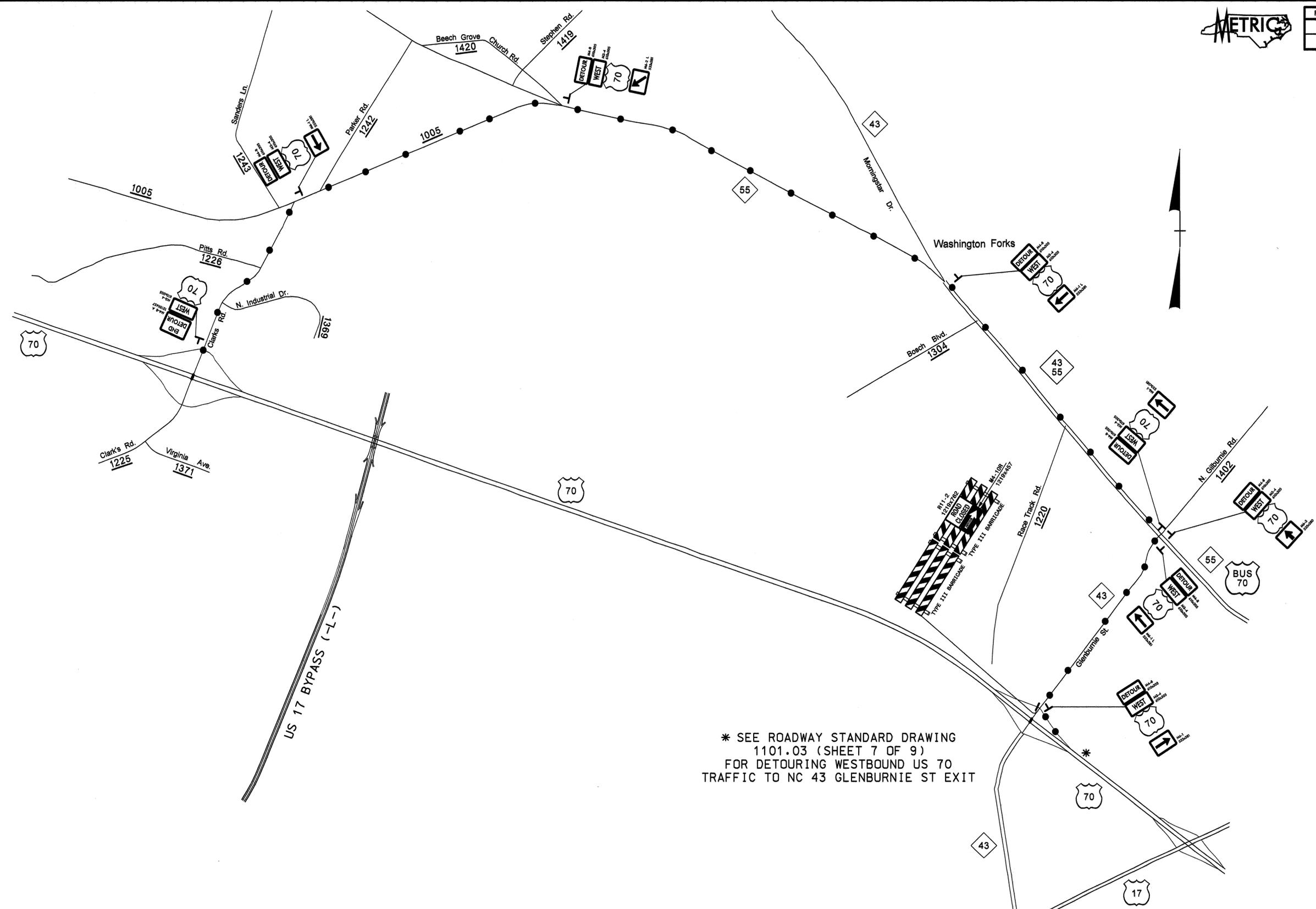
US 17 BYPASS (-L-)

PHASE II
STEP 4

APPROVED:	DATE:	OFF-SITE DETOUR EASTBOUND US 70 CLOSURE							
									
SCALE:	NONE								
DATE:	08-08								
DWG. BY:	DWM								
DESIGN BY:	MDL								
REVIEWED BY:	JAK	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS					
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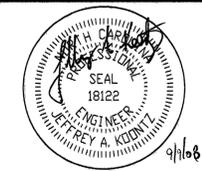


PROJ. REFERENCE NO.	SHEET NO.
R-2301A	TCP-11B



* SEE ROADWAY STANDARD DRAWING
1101.03 (SHEET 7 OF 9)
FOR DETOURING WESTBOUND US 70
TRAFFIC TO NC 43 GLENBURNIE ST EXIT

PHASE II
STEP 4

APPROVED: _____	DATE: _____	OFF-SITE DETOUR WESTBOUND US 70 CLOSURE	
			
SCALE: NONE	DATE: 08-08		
DWG. BY: DWM	DESIGN BY: MDL		
REVIEWED BY: JAK	FILE: R2301A_TC_TCP11.DGN		

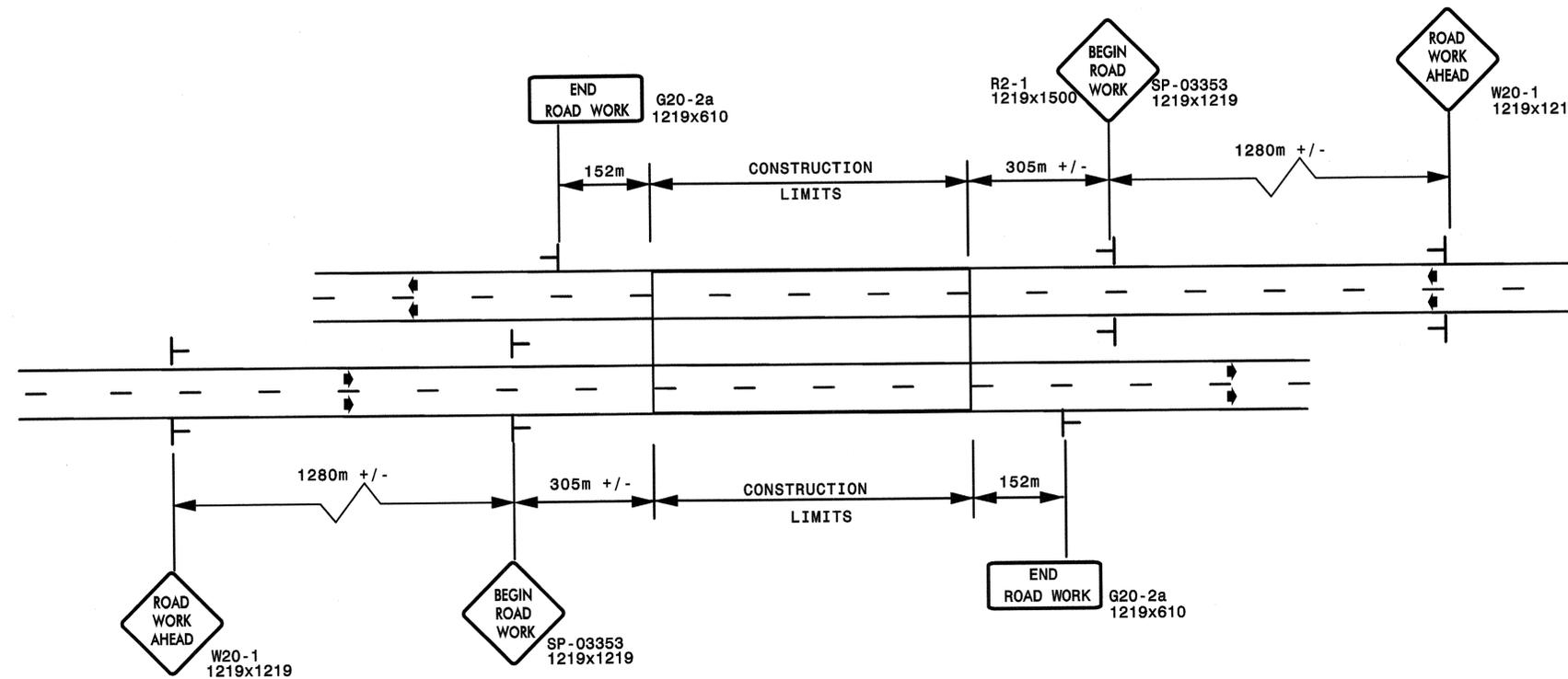
REVISIONS

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



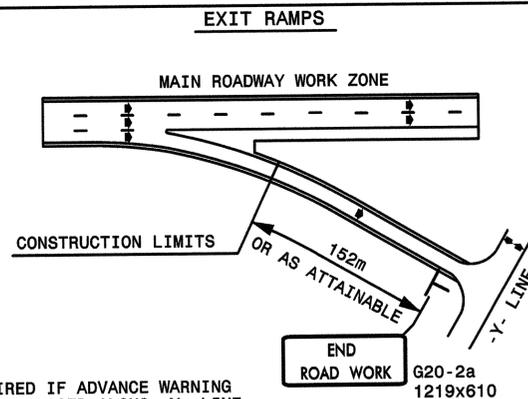
PROJ. REFERENCE NO. R-2301A	SHEET NO. TCP- 12
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DETAIL A



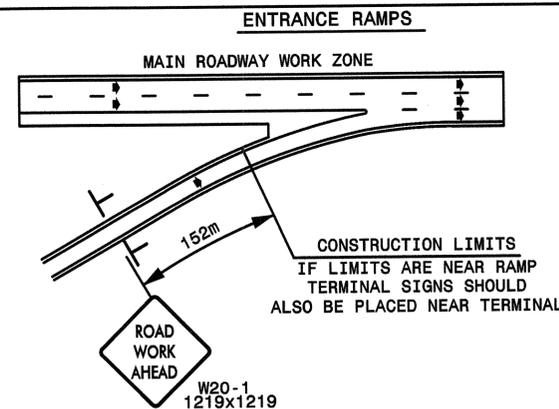
LEGEND	
—	STATIONARY SIGN
→	DIRECTION OF TRAFFIC FLOW

DETAIL B



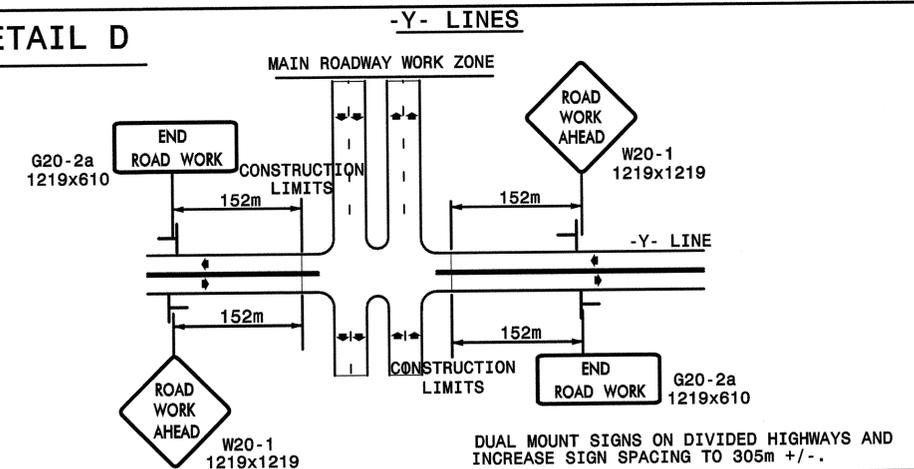
NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



CONSTRUCTION LIMITS IF LIMITS ARE NEAR RAMP TERMINAL SIGNS SHOULD ALSO BE PLACED NEAR TERMINAL

DETAIL D



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

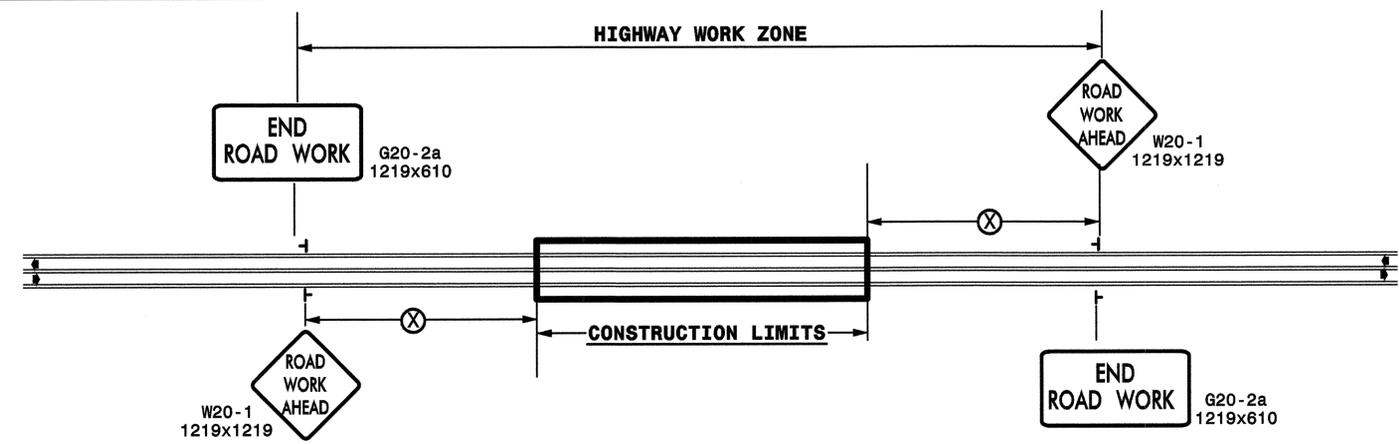
GENERAL NOTES

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

APPROVED: _____ DATE: _____	ADVANCE WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)	
SEAL		
SCALE: NONE		REVISIONS
DATE: 07-08		10/07
DWG. BY: DWM		
DESIGN BY: MDL		
REVIEWED BY: JAK		CADD FILE: R2301A_TC_TCF12.DGN



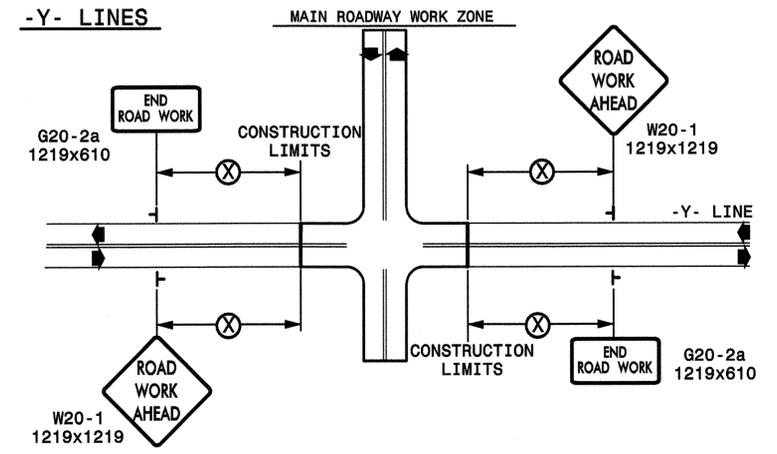
TWO-WAY UNDIVIDED ** (L-LINES)



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

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

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



DETAIL DRAWING FOR
TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

GENERAL NOTES

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

LEGEND

└ STATIONARY SIGN

◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: _____ DATE: _____	<p>DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCE WORK ZONE WARNING SIGNS</p>	
SCALE: NONE		REVISIONS
DATE: 07-08		7-98 10/01
DWG. BY: DWM		10-98 03/04
DESIGN BY: MDL		01/01 11/04
REVIEWED BY: JAK	CADD FILE R2301A_TC_TCP13.DGN	

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\$\$\$\$\$CNC\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$