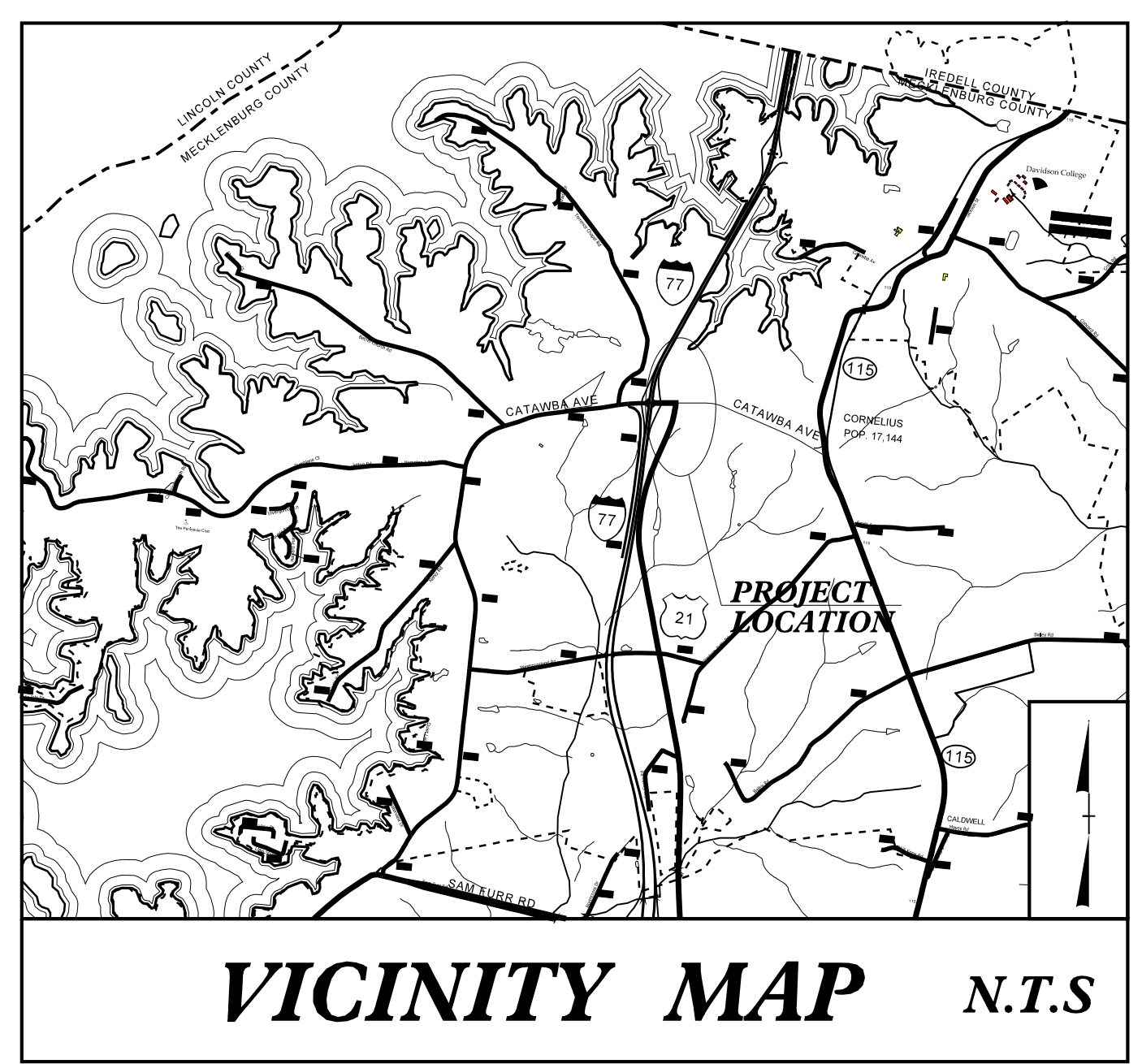
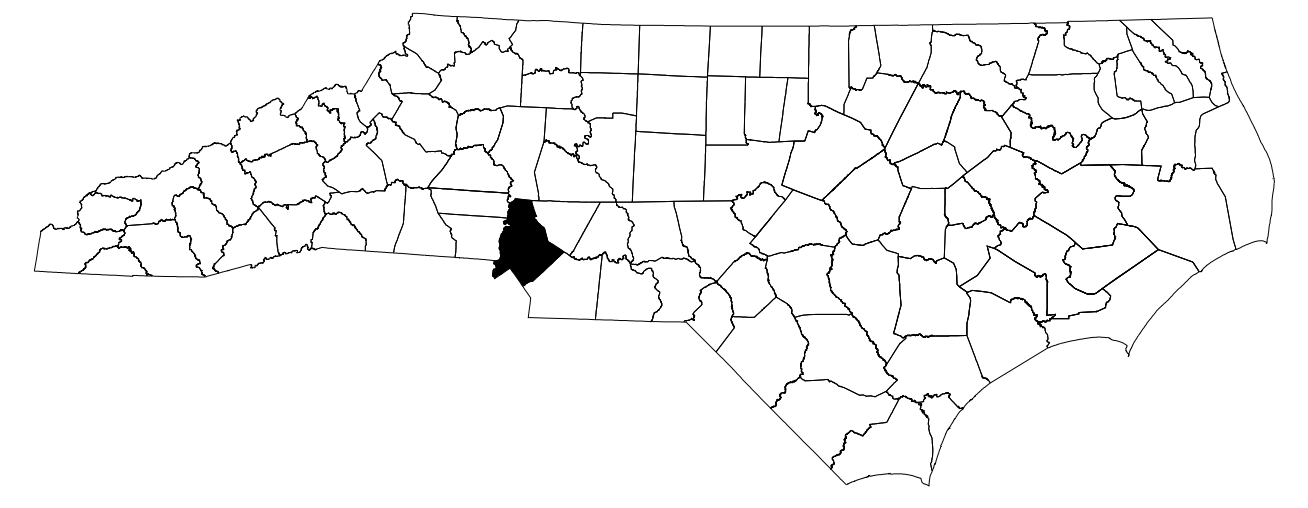


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

MECKLENBURG COUNTY

LOCATION: DUAL ROUNDABOUTS NORTH AND SOUTH OF
SR 5544 (CATAWBA AVE.) AND
US 21 INTERSECTION IN CORNELIUS



INDEX OF SHEETS

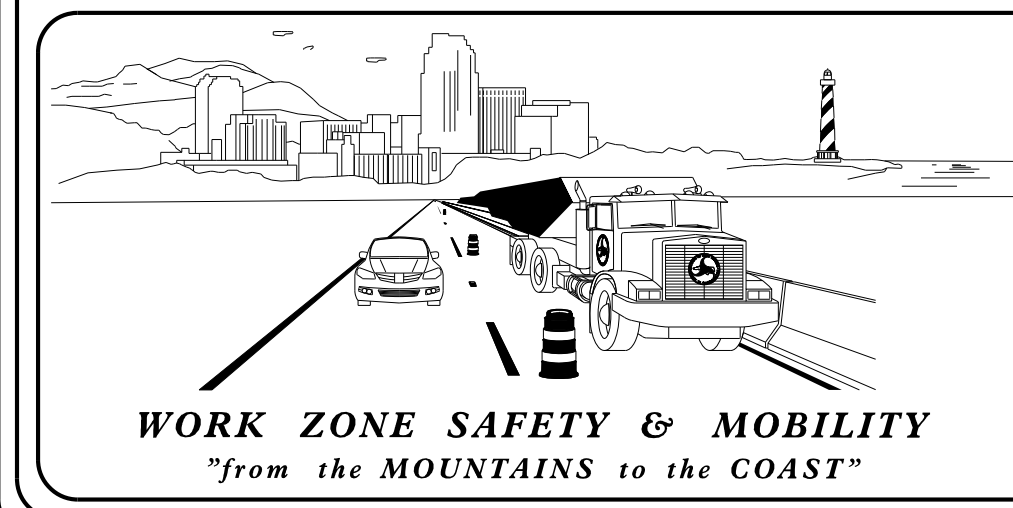
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2 THRU 2A	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, AND GENERAL NOTES)
TMP-2B	OFF-SITE DETOUR ROUTE
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 THRU 6	TEMPORARY TRAFFIC CONTROL PHASE I DETAILS
TMP-7 THRU 9	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS
TMP-10 THRU 12	TEMPORARY TRAFFIC CONTROL PHASE IIIA DETAILS
TMP-13 THRU 15	TEMPORARY TRAFFIC CONTROL PHASE IV DETAILS

SHEET NO.
TMP-1

C-5621

TIP PROJECT:

23-JUN-2023 09:01
R:\Traffic\Traffic Control\TC\5621\TC_TMP_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$



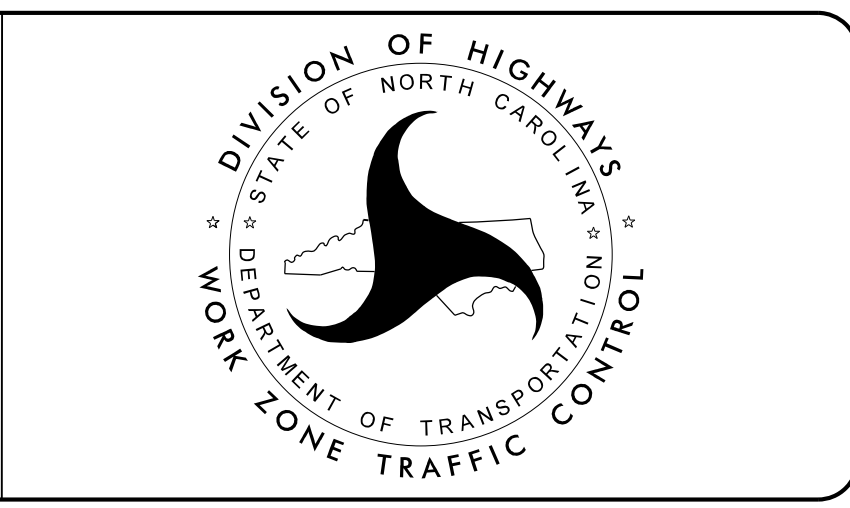
PLANS PREPARED BY:

JENNIFER D. FARINO, P.E.
PROJECT ENGINEER

NIKI E. AVGERINOS, E.I.
PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

TRAVIS PRESLAR, P.E.
NCDOT CONTACT



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



DocuSigned by:
JDF
67501E857D28415

APPROVED: _____

DATE: 7/10/2023

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1145.01	BARRICADES - TYPE III
1150.01	FLAGGERS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.

- WORK AREA
- REMOVAL
- TEMPORARY PAVEMENT

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

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

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

P1	WHITE EDGELINE	(4" PAINT)
P2	WHITE SOLID LANE LINE	(4" PAINT)
P4	3'-9' WHITE MINISKIP	(4" PAINT)
P5	2'-6' WHITE MINISKIP	(4" PAINT)
P10	YELLOW EDGELINE	(4" PAINT)
P13	YELLOW DOUBLE CENTER	(4" PAINT)
P42	YELLOW DIAGONAL	(8" PAINT)
P61	WHITE STOPBAR	(24" PAINT)
P76	COMBO. LEFT/RIGHT/STRAIGHT ARROW	



6/23/2023 R:\Traffic\Traffic Control\TCP\5621\TC_TMP_1a.dgn User:Yanqu

APPROVED: DATE: 7/10/2023 		ROADWAY STANDARD DRAWINGS & LEGEND
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

MANAGEMENT STRATEGY

PHASE I:

WITH TRAFFIC IN EXISTING PATTERN, CONSTRUCT WIDENING AND WEDGING OF -L- (CATAWBA AVE), -Y3A- (BURTON LN), -Y3B- (S. HILL ST), -Y6- (STERLING BAY LN), -Y8- (BURTON LN) AND -DRIVE1-.

USING LANE CLOSURES AND WITH TRAFFIC IN EXISTING PATTERN, BEGIN CONSTRUCTION ALONG -Y1A- (US 21), -Y1B- (US 21), AND -RA1-.

PHASE II:

SHIFT TRAFFIC TO PROPOSED ROADWAY IN A TWO-LANE, TWO-WAY PATTERN. COMPLETE CONSTRUCTION OF -Y1A-, -Y1B-, -RA1-, AND TIE-INS.

WITH TRAFFIC IN EXISTING PATTERN, BEGIN CONSTRUCTION OF -Y6- (STERLING BAY LN WEST), -Y7- (STERLING BAY LN EAST), AND CONSTRUCT WIDENING AND WEDGING PORTION OF -Y2- (HOLIDAY LN).

USING A ROAD CLOSURE AND AN OFF-SITE DETOUR ALONG -Y7- (STERLING BY LANE EAST) AND -Y8- (BURTON LN), COMPLETE CONSTRUCTION OF -Y2- AND BEGIN CONSTRUCTION OF -RA2-. BEGIN CONSTRUCTION OF -Y4-.

SHIFT TRAFFIC INTO A ONE-LANE, TWO-WAY PATTERN ON EXISTING EASTBOUND LANE OF -Y7- AND COMPLETE CONSTRUCTION OF -Y7-.

PHASE III:

SHIFT TRAFFIC INTO A TWO-LANE, TWO-WAY PATTERN ON PROPOSED -Y2- AND COMPLETE CONSTRUCTION OF -Y2-.

SHIFT TRAFFIC TO PROPOSED ROADWAY AND COMPLETE CONSTRUCTION OF -RA2-, -Y6-, AND TIE-INS.

SHIFT TRAFFIC ONTO PROPOSED -Y4- AND COMPLETE CONSTRUCTION OF -Y4-.

REMOVE -DRIVE1-.

PHASE IV:

OPEN TRAFFIC TO FINAL PATTERN. USING LANE CLOSURES, CONSTRUCT MONOLITHIC ISLANDS, PLACE FINAL PAVEMENT MARKINGS AND MARKERS.

GENERAL NOTES

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

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

TIME RESTRICTIONS

A) THE CONTRACTOR SHALL COMPLETE THE REQUIRED WORK OF INSTALLING, MAINTAINING, AND REMOVING THE TRAFFIC CONTROL DEVICES FOR LANE CLOSURES AND RESTORING TRAFFIC TO THE EXISTING TRAFFIC PATTERN. THE CONTRACTOR SHALL NOT CLOSE OR NARROW A LANE OF TRAFFIC ON CATAWBA AVE, US 21 (STATESVILLE RD) AND HOLIDAY LANE FROM STATION 15+50 TO 19+53 -Y2- DURING THE FOLLOWING TIME RESTRICTIONS:

MONDAY THRU SUNDAY: 6:00 A.M. TO 8:00 P.M.

TIME RESTRICTIONS CONTINUED

B) THE CONTRACTOR SHALL COMPLETE THE REQUIRED WORK OF INSTALLING, MAINTAINING, AND REMOVING THE TRAFFIC CONTROL DEVICES FOR LANE CLOSURES AND RESTORING TRAFFIC TO THE EXISTING TRAFFIC PATTERN. THE CONTRACTOR SHALL NOT CLOSE OR NARROW A LANE OF TRAFFIC ON STERLING BAY LN AND HOLIDAY LANE FROM STATION 10+00 TO 15+50 -Y2- DURING THE FOLLOWING TIME RESTRICTIONS:

MONDAY THRU FRIDAY: 6:00 A.M. TO 9:00 A.M.
4:00 P.M. TO 6:00 P.M.

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

1. FOR ANY OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S DAY, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST AND 8:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY, THEN UNTIL 8:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 8:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 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 FRIDAY, SATURDAY, SUNDAY OR MONDAY, 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 AND 8:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY AND 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 TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

7/18/2023 R:\Traffic\Traffic Control\TCP\C562LTC.TMP-generalnotes 2.dgn User:Avgerin



APPROVED: DATE: 7/18/2023			<h3 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h3>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

GENERAL NOTES

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

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

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

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

I) DO NOT INSTALL MORE THAN 100 FT OF LANE CLOSURE ON MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

J) DO NOT INSTALL MORE THAN ONE SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON ANY ROAD.

K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON ANY ROAD.

L) PROVIDE A MINIMUM OF 100 FT BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

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

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

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

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

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

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

TRAFFIC PATTERN ALTERATIONS

P) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

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

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

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

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

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

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) 100 IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

V) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

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

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

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

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

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

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

MISCELLANEOUS

CC) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

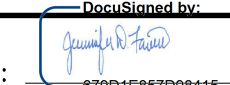

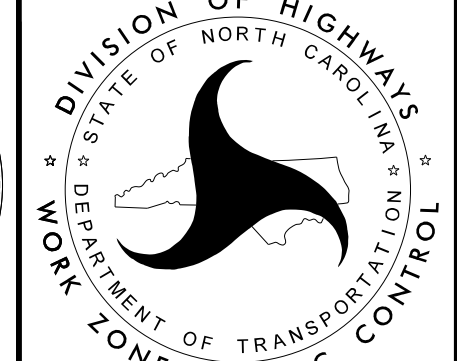
DD) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGN (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS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

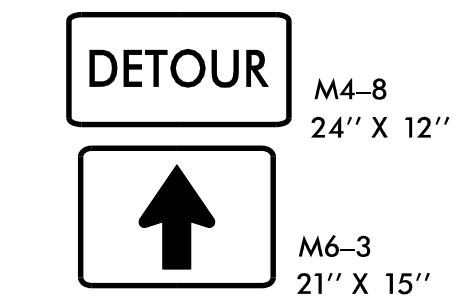
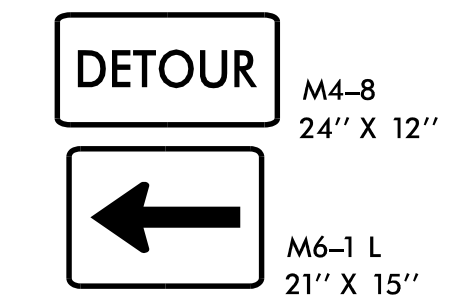
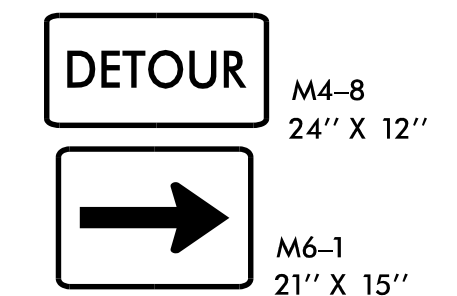
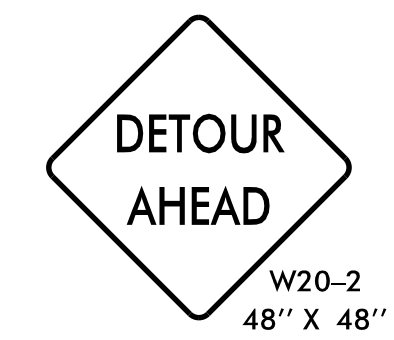
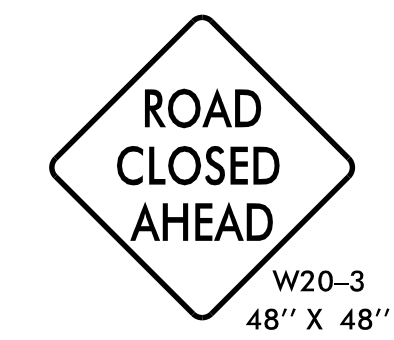
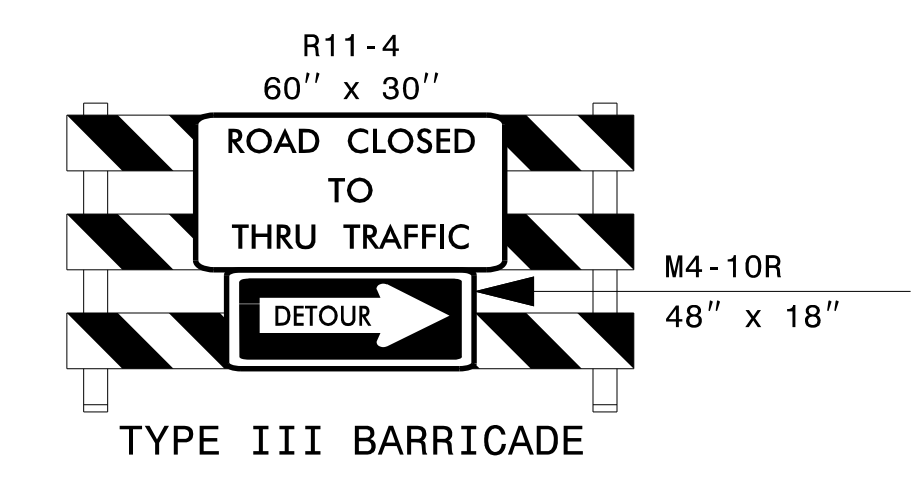
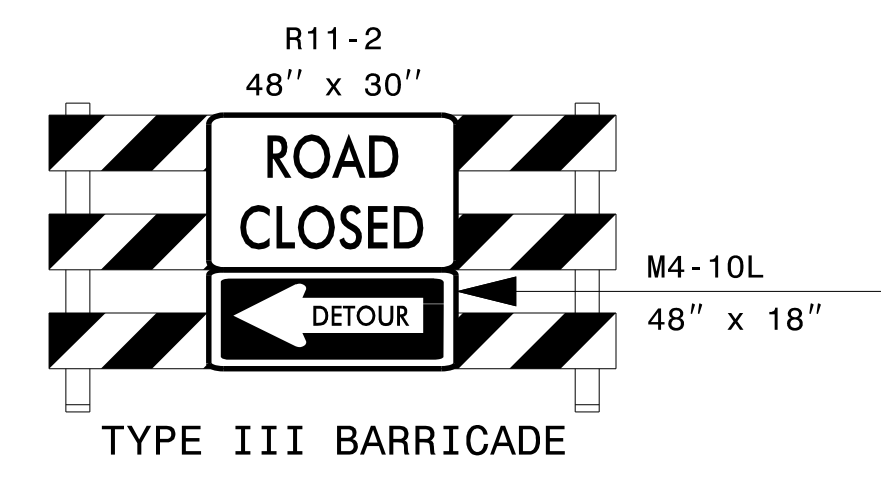
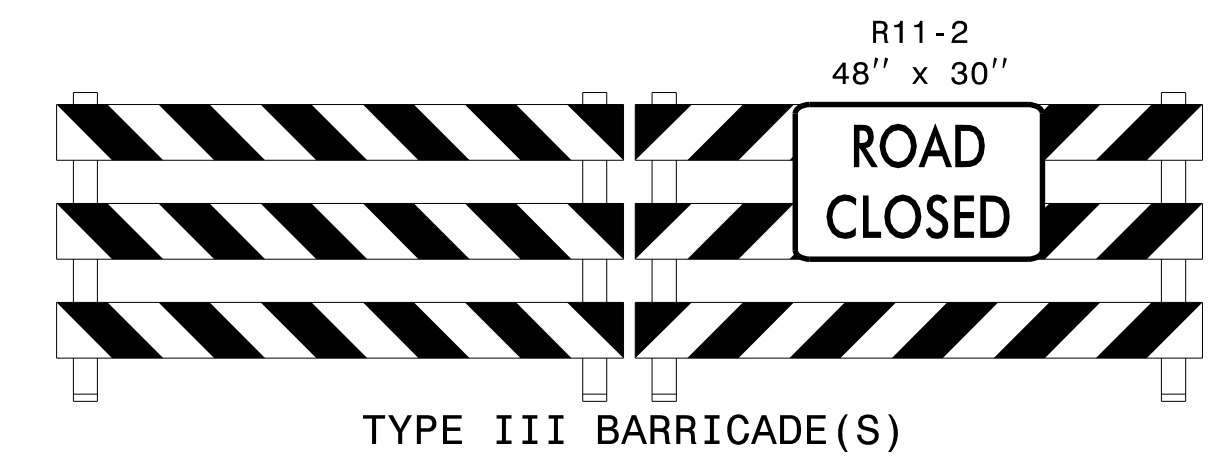
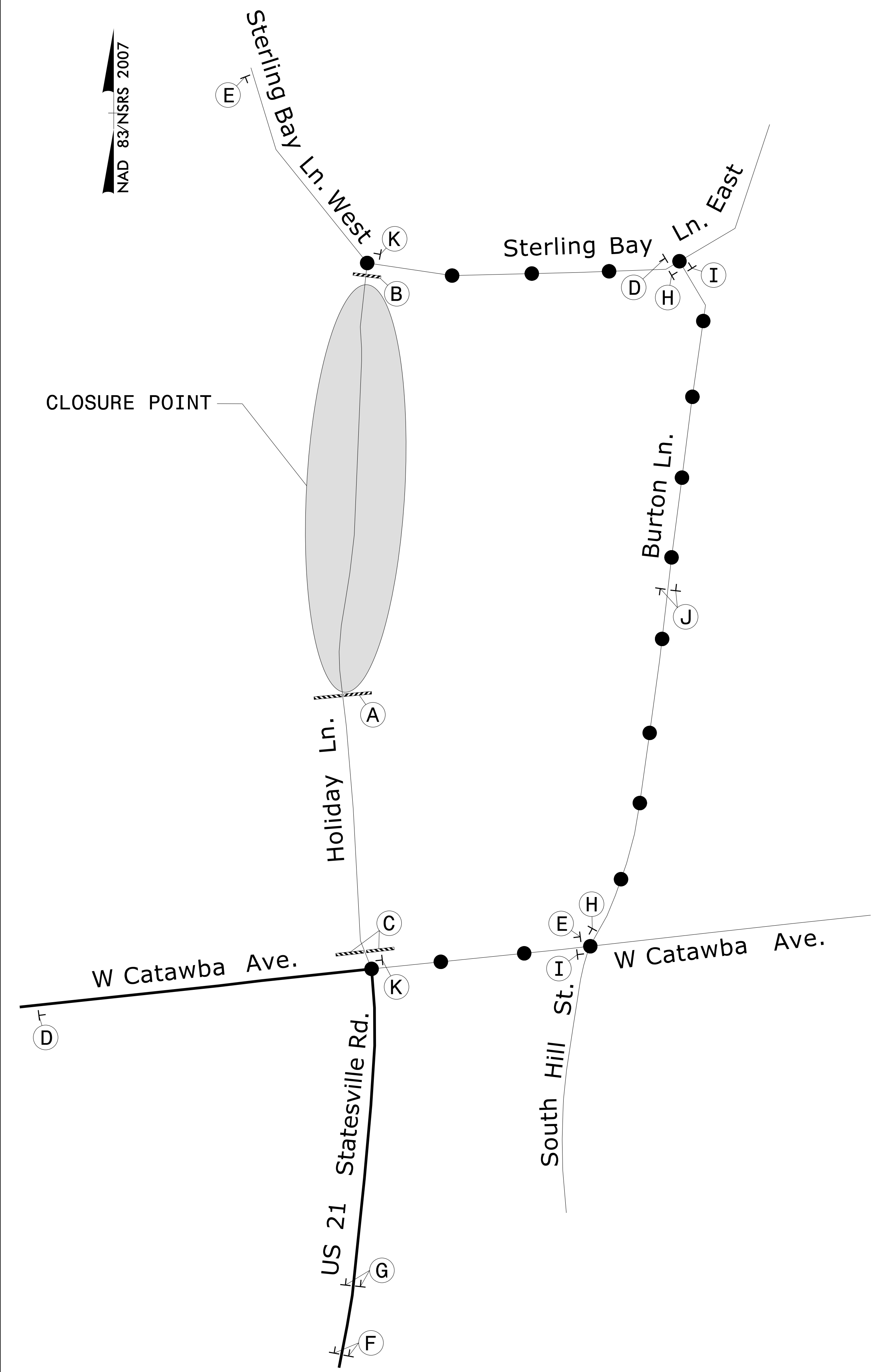
EE) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.

FF) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

6/26/2023 R:\Traffic\Traffic Control\TCP\C562LTC.TMP_generalnotes_2A.dgn User:McLaughl



APPROVED:  DATE: 7/10/2023			<h2>TRANSPORTATION OPERATIONS PLAN</h2>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



3/14/2023
 R:\Traffic\Traffic Control\TCPC5621\TC_TMP_detour.dgn
 User:Avgerin



<p>LEGEND</p>	<p>APPROVED: </p> <p>DATE: 7/10/2023</p>			<p>DETOUR ROUTE</p>
	<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			

PHASING NOTES

NOTES:

'RSD' REFERS TO NCDOT ROADWAY STANDARD DRAWINGS.

ALL PROPOSED ASPHALT ROADWAY CONSTRUCTION IS UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE UNLESS OTHERWISE NOTED.

INTERMEDIATE CONTRACT TIME (ICT):

THE CONTRACTOR SHALL NOT CLOSE OR NARROW A LANE OF TRAFFIC ON -L- (CATAWBA AVE), -Y1A- (US 21 / STATESVILLE RD), AND -Y2- (HOLIDAY LN) STA. 15+50± TO 19+53± DURING THE FOLLOWING TIME RESTRICTIONS:

MONDAY THRU SUNDAY 6:00 A.M. TO 8:00 P.M.

THE CONTRACTOR SHALL NOT CLOSE OR NARROW A LANE OF TRAFFIC ON -Y7- (STERLING BAY LN) AND -Y2- (HOLIDAY LN) STA. 10+00± TO 15+50± DURING THE FOLLOWING TIME RESTRICTIONS:

MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 A.M.
MONDAY THRU FRIDAY 4:00 P.M. TO 6:00 P.M.

SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

PHASE I STEP 1:

USING RSD 1101.01 (SHEETS 2 AND 3 OF 3), PLACE ALL ADVANCE WARNING SIGNS.

PHASE I STEP 2:

PLACE TEMPORARY PAVEMENT MARKINGS ALONG -L- (CATAWBA AVE), AND SHIFT TRAFFIC. USING RSD 1101.02 (SHEET 1 OF 14) AND A WEEKEND LANE CLOSURE, CONSTRUCT THE EASTBOUND OUTSIDE LANE OF -L- STA. 15+00± (RT) TO -L- STA. 17+50± (RT).

USING RSD 1101.02 (SHEET 1 OF 14), WHILE MAINTAINING PEDESTRIAN ACCESS ALONG THE OPPOSITE SIDE OF -L- (CATAWBA AVE) FROM CONSTRUCTION, AND WITH TRAFFIC IN EXISTING PATTERN, CONSTRUCT WIDENING AND WEDGING OF THE FOLLOWING INCLUDING RETAINING WALL AND TEMPORARY DRAINAGE (SEE SHEETS TMP-4 THRU TMP-6):

- L- STA 10+78± TO -L- STA 20+65± (LT)
 - L- STA 11+02± TO -L- STA 15+00± (RT)
 - L- STA 17+50± TO -L- STA 20+65± (RT)
 - Y3A- STA 10+10± TO -L- TIE
 - Y3B- STA 11+65± TO -L- TIE
 - Y8- STA 10+10± TO -Y8- STA 11+90±
- CONTRACTOR TO MINIMIZE NUMBER OF VEHICLES ALONG -Y7- (STERLING BAY LN) DURING THE CONSTRUCTION OF -Y8- (BURTON LN).
-DRIVE1-

USING RSD 1101.02 (SHEET 1 OF 14) AND WITH TRAFFIC IN EXISTING PATTERN, BEGIN CONSTRUCTION OF THE FOLLOWING UP TO THE EDGE AND ELEVATION OF THE EXISTING ROADWAY (SEE SHEETS TMP-4 AND TMP-6):

- Y1A- STA 10+00± TO -Y1A- STA 11+54± (RT)
- Y1A- STA 10+00± TO -RA1- TIE (LT)
- Y1B- FROM -RA1- TIE TO -Y1B- STA 16+74±
- RA1-

WITH TRAFFIC IN EXISTING PATTERN AND WHILE MAINTAINING DRIVEWAY ACCESS, USE A NIGHTLY LANE CLOSURE AND RSD 1101.02 (SHEET 1 OF 14) TO CONSTRUCT -Y6- STA 11+84± (LT) TO -Y7- STA 11+21± (LT) (SEE SHEET TMP-5).

PHASE II STEP 1:

WITH TRAFFIC IN EXISTING PATTERN AND WHILE MAINTAINING DRIVEWAY ACCESS, USE A NIGHTLY LANE CLOSURE AND RSD 1101.02 (SHEET 1 OF 14) TO CONSTRUCT -Y6- STA 11+75± TO -RA2- TIE (RT) (SEE SHEET TMP-8).

PHASE II STEP 2:

USING NIGHTLY LANE CLOSURES AND RSD 1102.02 (SHEET 1 OF 14), WEDGE ALONG -Y1A- TO MAINTAIN ACCESS TO -DRIVE1- PRIOR TO SHIFTING EXISTING -Y1A- TRAFFIC TO PROPOSED ROADWAY ALONG -Y1A-.

SHIFT TRAFFIC TO PROPOSED ROADWAY ALONG -Y1A-, -RA1- AND -Y1B- IN A TWO-LANE, TWO-WAY PATTERN. USING RSD 1101.02 (SHEET 1 OF 14) AND WHILE MAINTAINING DRIVEWAY ACCESS, COMPLETE CONSTRUCTION OF -Y1A-, -Y1B-, AND TIE-INS (SEE SHEETS TMP-7 AND TMP-9).

SHIFT TRAFFIC ONTO -DRIVE1-. USING A ROAD CLOSURE, CONSTRUCT -Y4- STA 10+00± TO -Y4- STA 10+80± (SEE SHEET TMP-9).

USING LANE CLOSURES AND WITH TRAFFIC IN EXISTING PATTERN, CONSTRUCT -Y2- STA 15+76± TO -L- TIE (LT) (SEE SHEET TMP-7).

INTERMEDIATE CONTRACT TIME (ICT): COMPLETE THE WORK REQUIRED IN PHASE II STEP 2 FOR THE CLOSURE OF -Y2- IN ONE HUNDRED-EIGHTY (180) CONSECUTIVE DAYS.

USING RSD 1101.03 (SHEETS 1 AND 2 OF 9), A ROAD CLOSURE AND AN OFF-SITE DETOUR (SEE DETOUR SHEET TMP-2B) ALONG -Y7- (STERLING BAY LANE EAST), -Y8- (BURTON LN) AND -L- (W CATAWBA AVE), CONSTRUCT -RA2-, -Y7-, -Y2- AND TEMPORARY PAVEMENT ALONG -Y2- STA 14+72± TO -Y2- STA 16+57± (SEE SHEETS TMP-7 THRU TMP-8) (SEE LOCAL NOTE SHEET TMP-2).

USING RSD 1101.02 (SHEET 1 OF 14) AND FLAGGERS, PLACE TRAFFIC IN A ONE-LANE, TWO-WAY PATTERN ON EXISTING EASTBOUND LANE OF -Y7- AND BEGIN CONSTRUCTION OF -Y7- STA 11+80± TO -Y7- STA 12+30± (LT) (SEE SHEET TMP-8).

PEDESTRIAN DETOUR NEEDED ALONG THE OPPOSITE SIDE OF -L- (CATAWBA AVE.) FROM CONSTRUCTION IF TEMPORARY SIGNAL POLES ARE IN USE.

PHASE III:

SHIFT TRAFFIC ONTO PROPOSED -Y4-. USING RSD 1101.02 (SHEET 1 OF 14), REMOVE TEMPORARY PAVEMENT IN -RA1- AND REMOVE -DRIVE1- (SEE SHEET TMP-12).

SHIFT TRAFFIC ONTO PROPOSED -Y2-. USING RSD 1101.02 (SHEET 1 OF 14), COMPLETE CONSTRUCTION OF -Y2- STA 15+76± TO -L- TIE (LT) (SEE SHEET TMP-10).

PEDESTRIAN DETOUR NEEDED ALONG THE OPPOSITE SIDE OF -L- (CATAWBA AVE.) FROM CONSTRUCTION IF TEMPORARY SIGNAL POLES ARE IN USE.

PHASE IV:

OPEN TRAFFIC TO FINAL PATTERN. USING RSD 1101.02 (SHEETS 1 AND 3 OF 14), REMOVE TEMPORARY PAVEMENT ALONG -Y2- STA 14+72± TO -Y2- STA 16+57± AND ALONG -Y8- STA 10+10± TO -Y8- STA 11+90±, COMPLETE CONSTRUCTION OF -RA1-, CONSTRUCT MONOLITHIC ISLANDS, PLACE FINAL PAVEMENT MARKINGS AND MARKERS, AND FINAL LAYER OF SURFACE COURSE

PEDESTRIAN DETOUR NEEDED ALONG THE OPPOSITE SIDE OF -L- (CATAWBA AVE.) FROM CONSTRUCTION IF TEMPORARY SIGNAL POLES ARE IN USE.

8/17/2023
R:\Traffic\Traffic Control\TCP\C562LTC_TMP_phasing.dgn
User:Avgerin

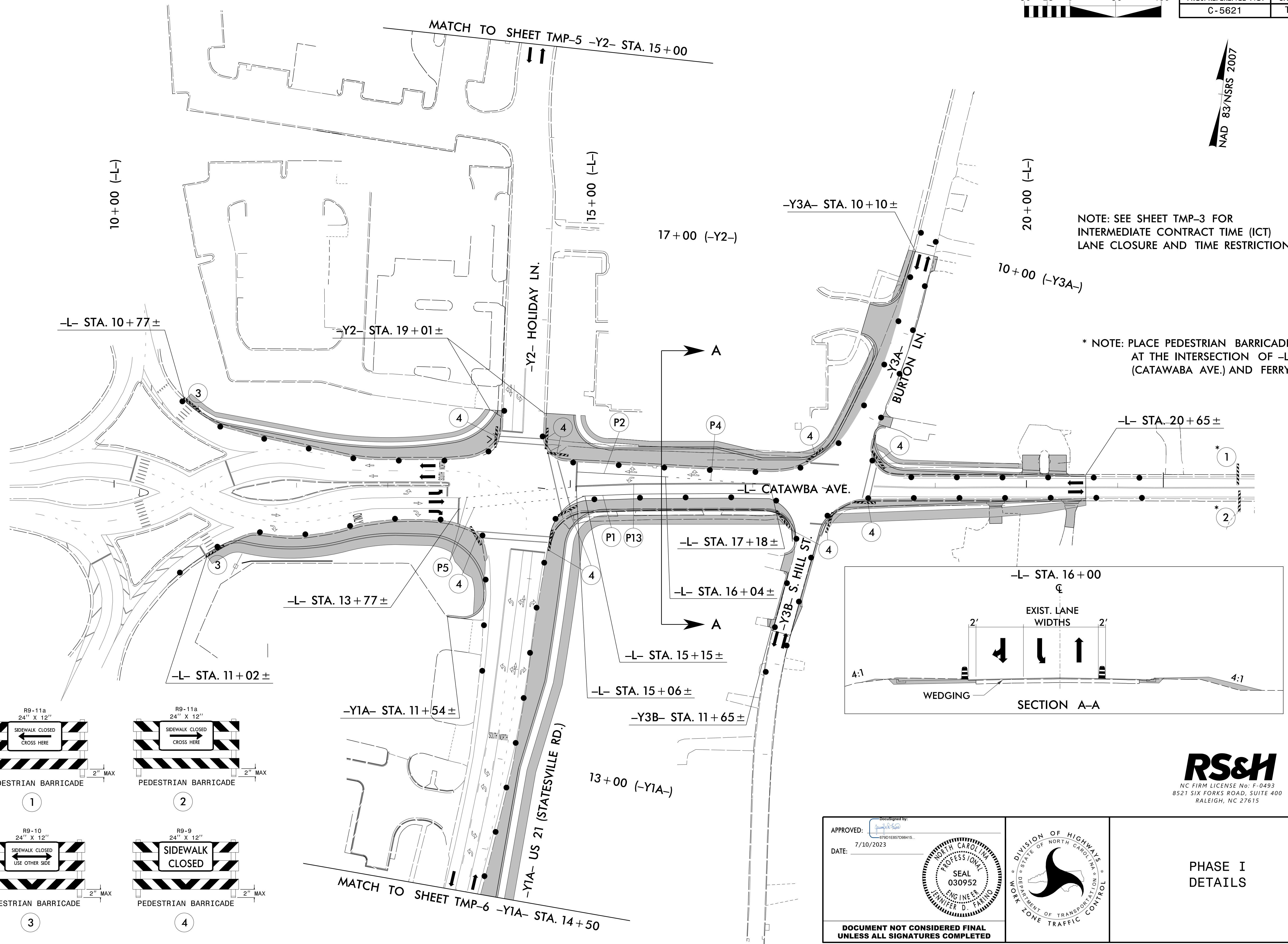


<p>APPROVED: 8/18/2023</p> <p>DATE: 8/18/2023</p>			<h2>PHASING NOTES</h2>
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			



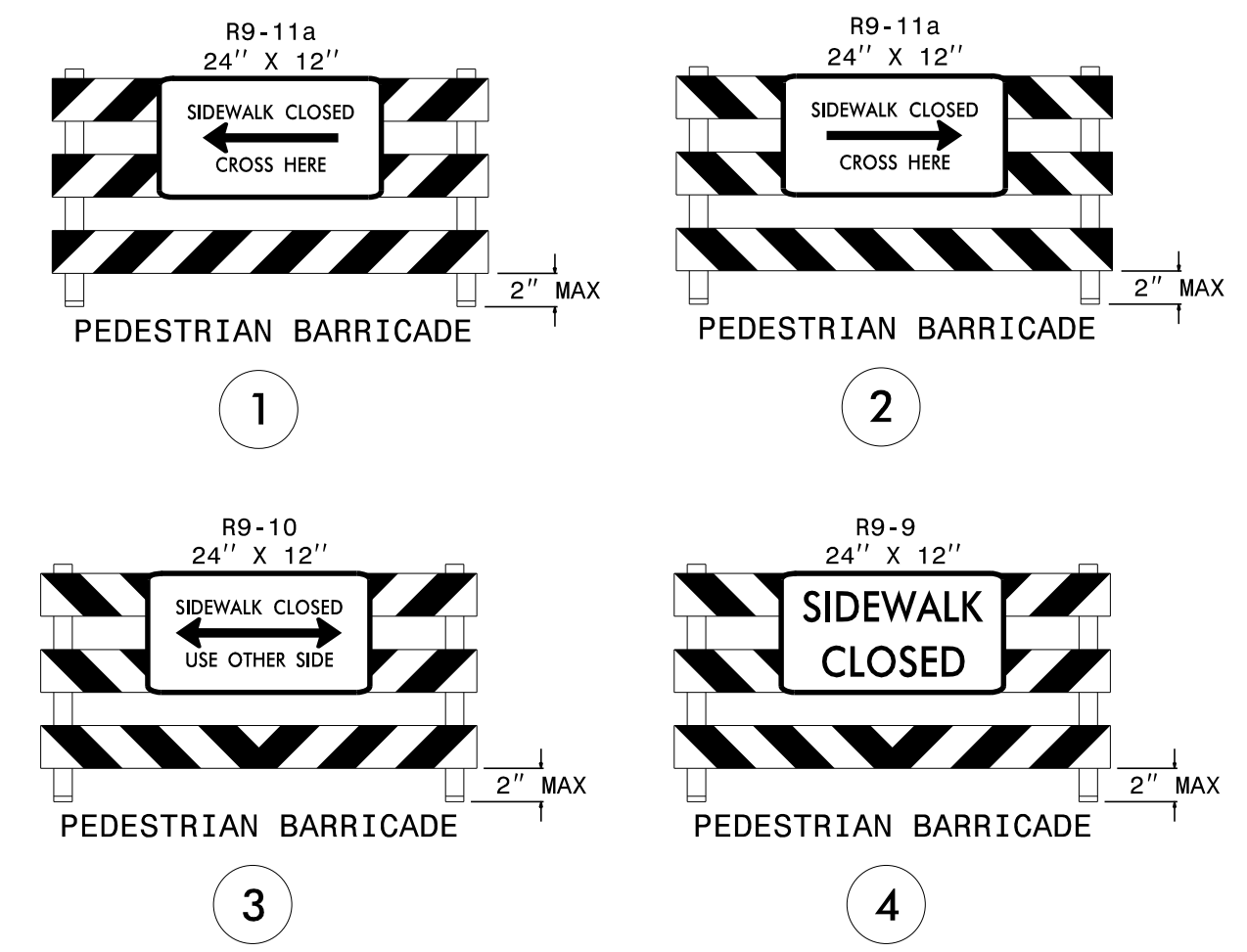
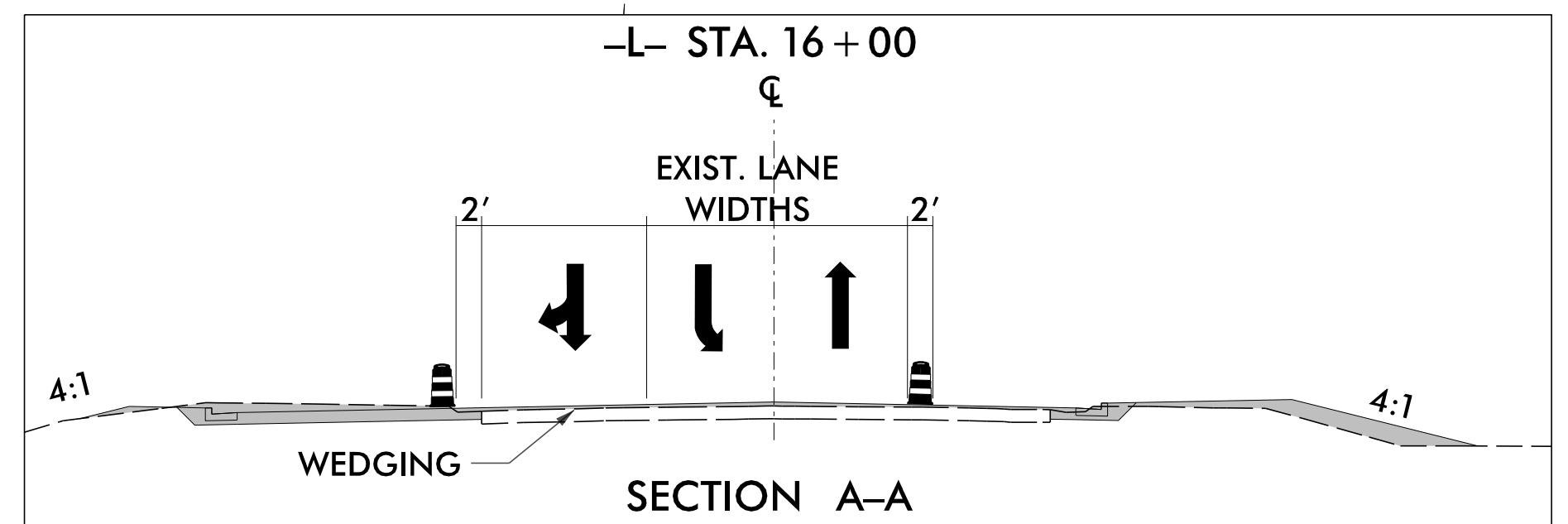
PROJ. REFERENCE NO. C-5621	SHEET NO. TMP-4
-------------------------------	--------------------

NAD 83/NSRS 2007



NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) LANE CLOSURE AND TIME RESTRICTIONS.

* NOTE: PLACE PEDESTRIAN BARRICADES AT THE INTERSECTION OF -L- (CATAWBA AVE.) AND FERRY ST.

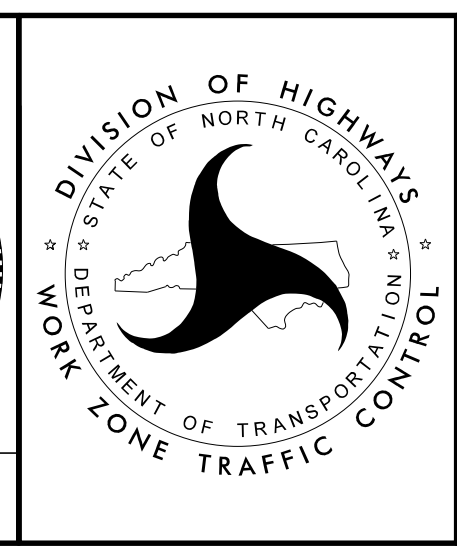


RS&H
 NC FIRM LICENSE No: F-0493
 8521 SIX FORKS ROAD, SUITE 400
 RALEIGH, NC 27615

APPROVED: [Signature]
 DATE: 7/10/2023

Seal: NORTH CAROLINA PROFESSIONAL SEAL 030952 ENGINEER LAWRIER D. FARMING

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



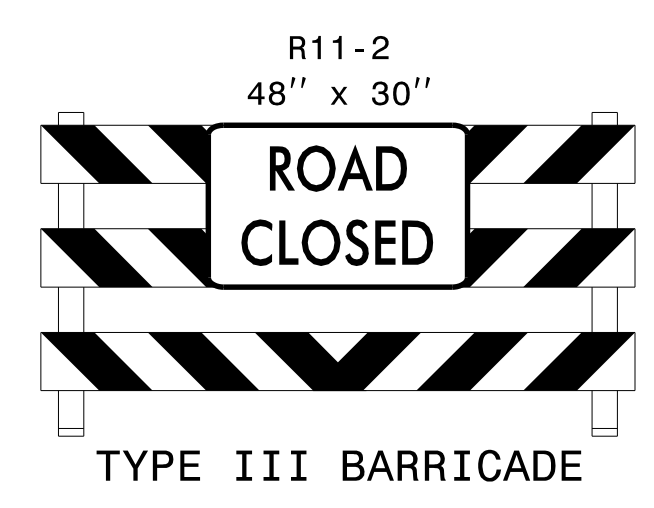
PHASE I DETAILS

6/26/2023 R:\Traffic\Traffic Control\NCP\C5621\TC_TMP_pi.dtl User:McLaughlin

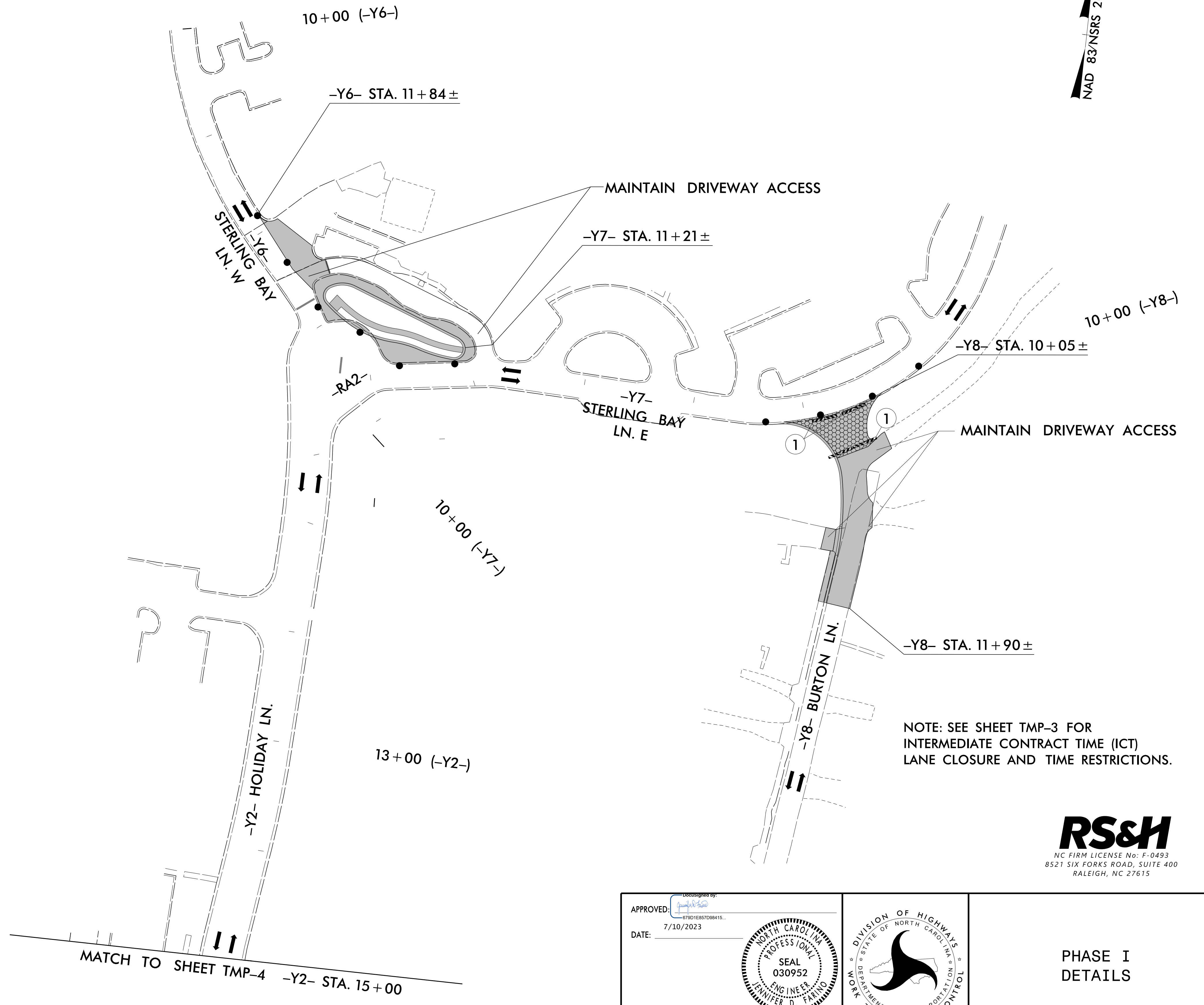


PROJ. REFERENCE NO.	SHEET NO.
C-5621	TMP-5

NAD 83/NSRS 2007



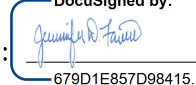
1




NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) LANE CLOSURE AND TIME RESTRICTIONS.

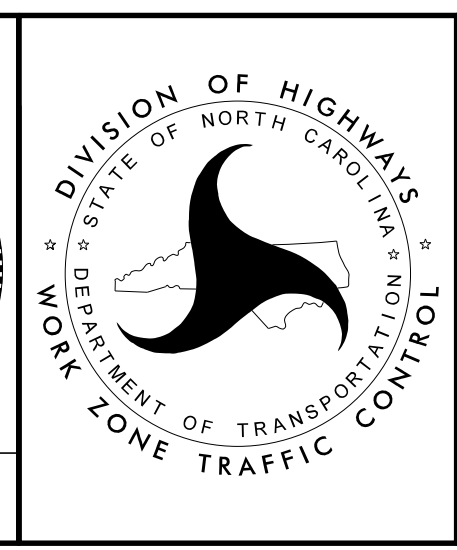


6/26/2023
R:\Traffic\Traffic Control\TCP\C5621\TC-TMP-pi.dtl.02.dgn
User:McLaughr

APPROVED: 
DATE: 7/10/2023



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

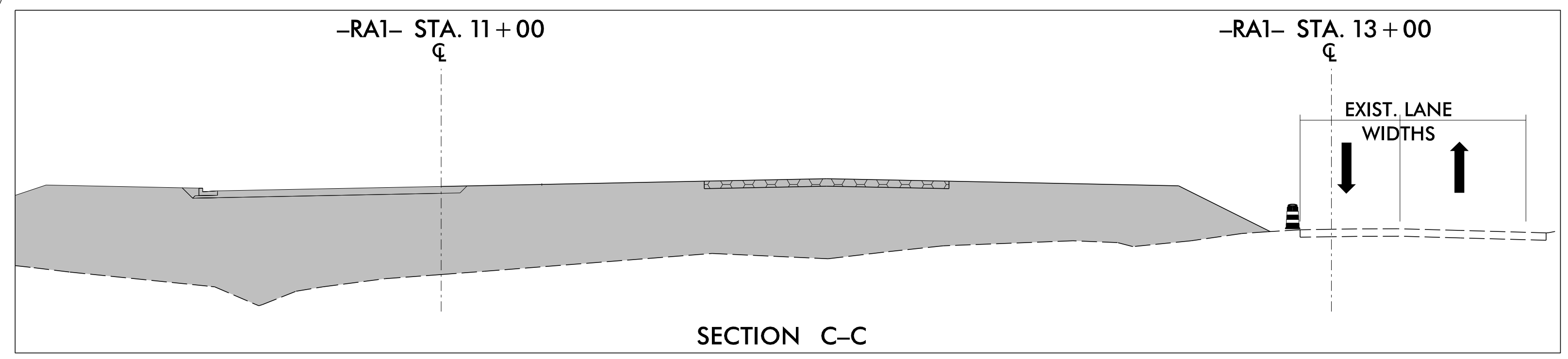
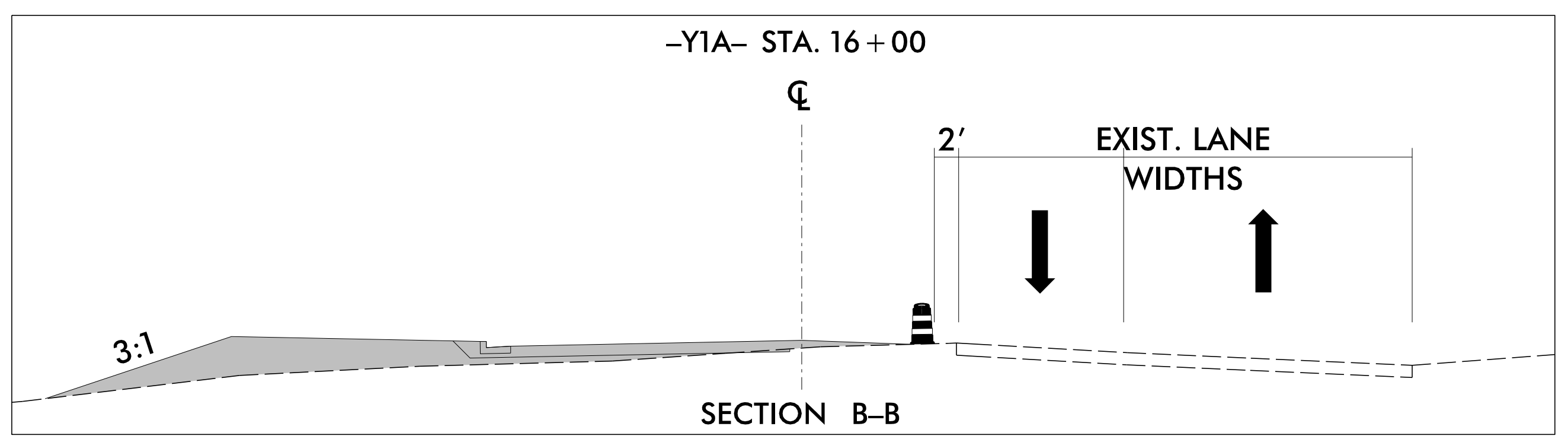
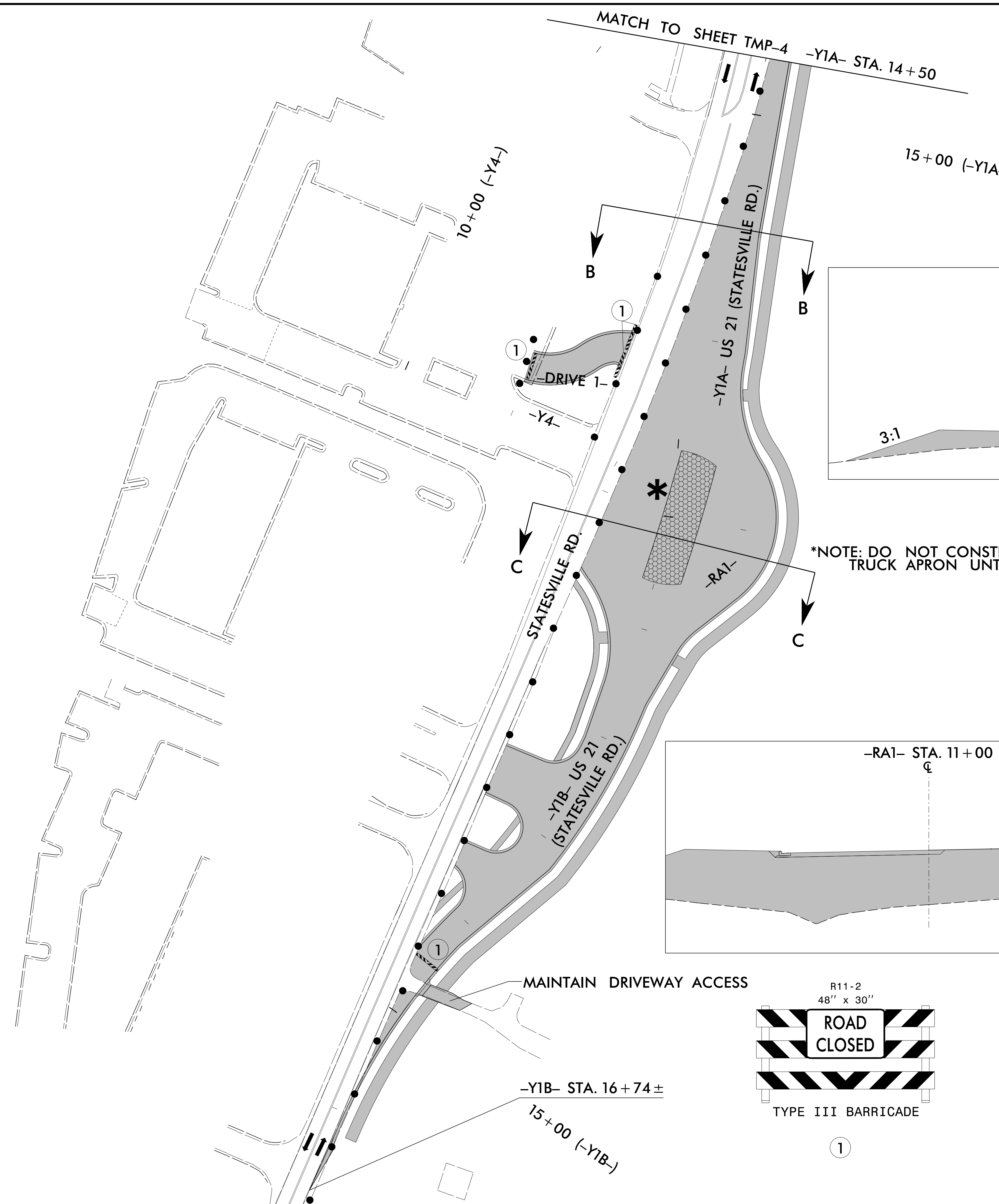


PHASE I
DETAILS



PROJ. REFERENCE NO. C-5621	SHEET NO. TMP-6
-------------------------------	--------------------

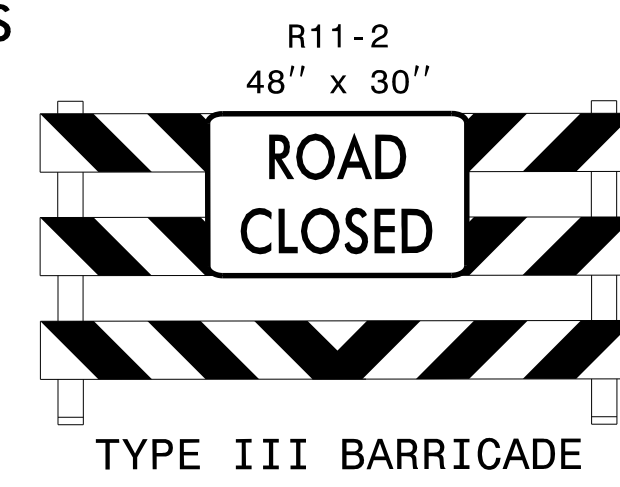
NAD 83/NSRS 2007



*NOTE: DO NOT CONSTRUCT CURB AND TRUCK APRON UNTIL PHASE IV


NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) LANE CLOSURE AND TIME RESTRICTIONS.

MAINTAIN DRIVEWAY ACCESS



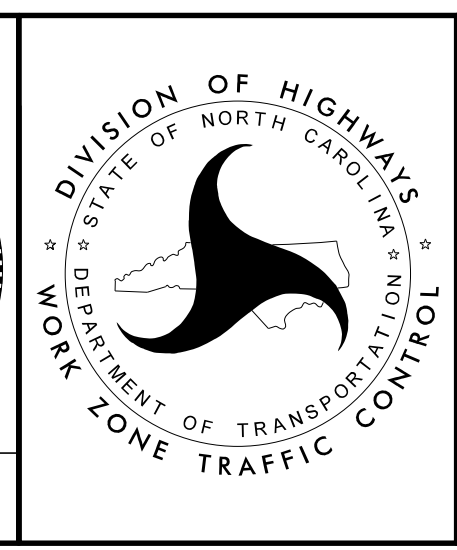
6/26/2023
R:\Traffic\Traffic Control\TCPC5621\TC_TMP_pi_dHL03.dgn
User:McLaughlin



APPROVED: 

DATE: 7/10/2023

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

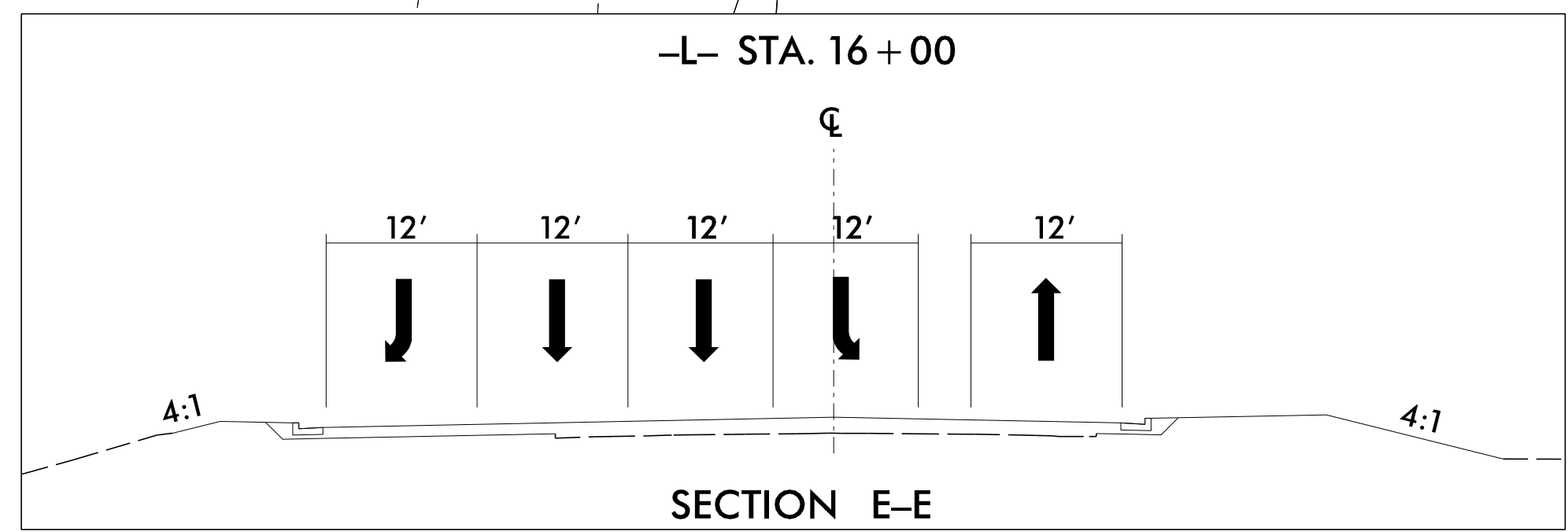
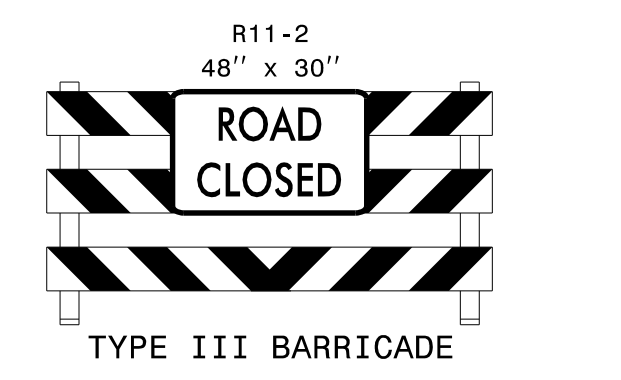
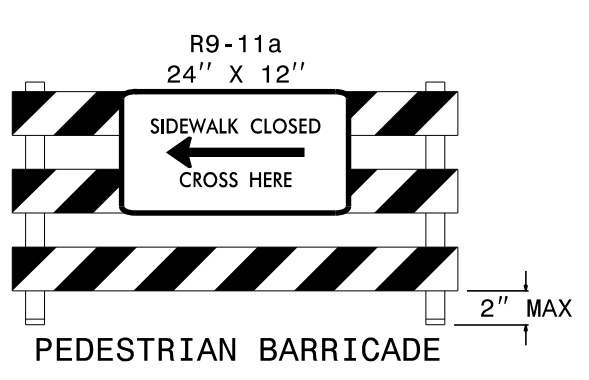
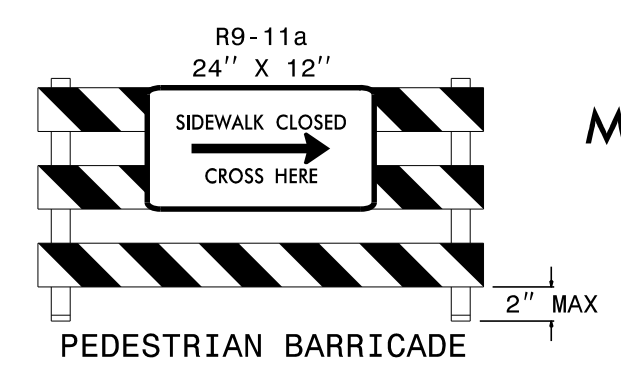
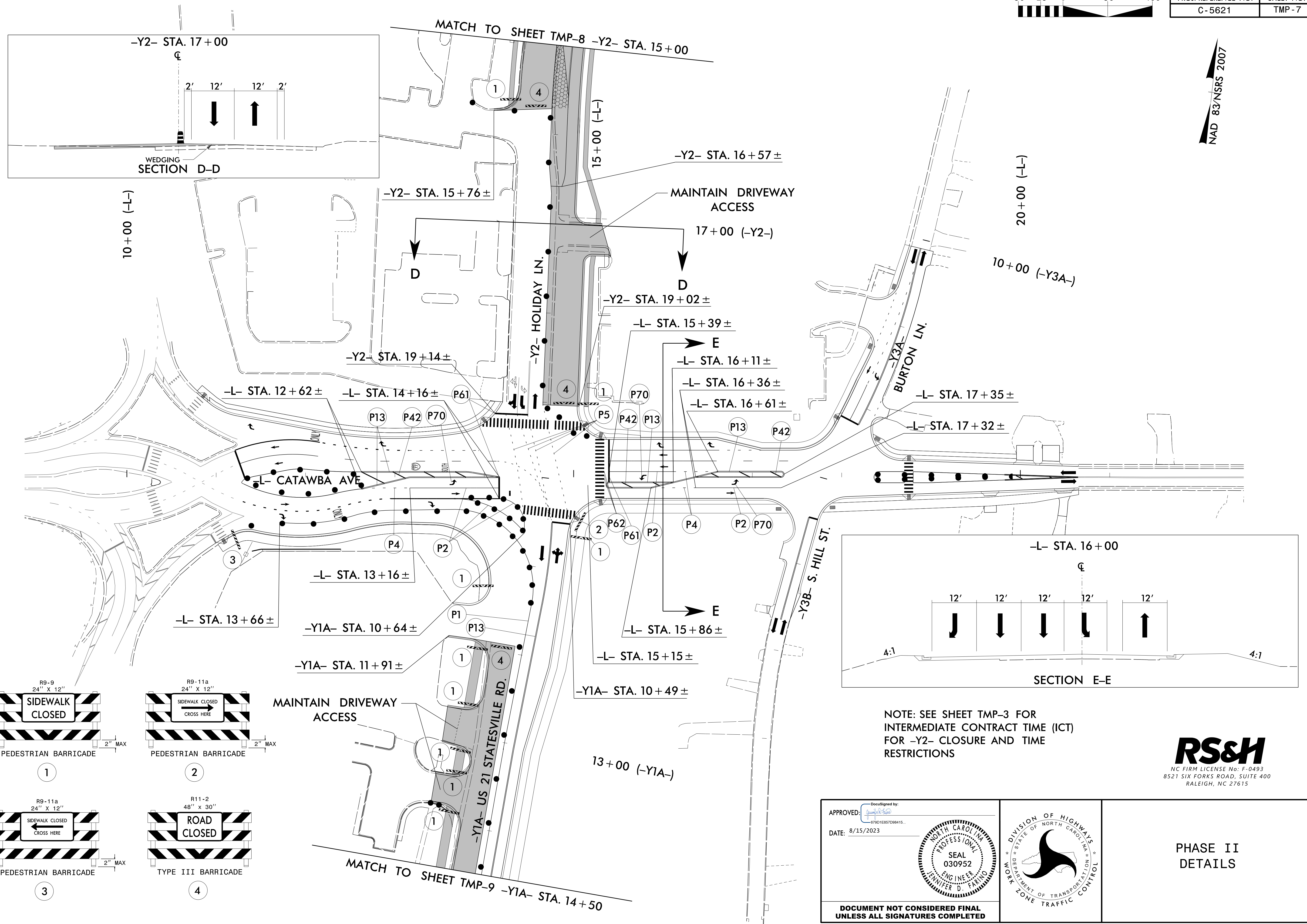


PHASE I
DETAILS



PROJ. REFERENCE NO.	SHEET NO.
C-5621	TMP-7

NAD 83/NSRS 2007



NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) FOR -Y2- CLOSURE AND TIME RESTRICTIONS



APPROVED: [Signature]

DATE: 8/15/2023

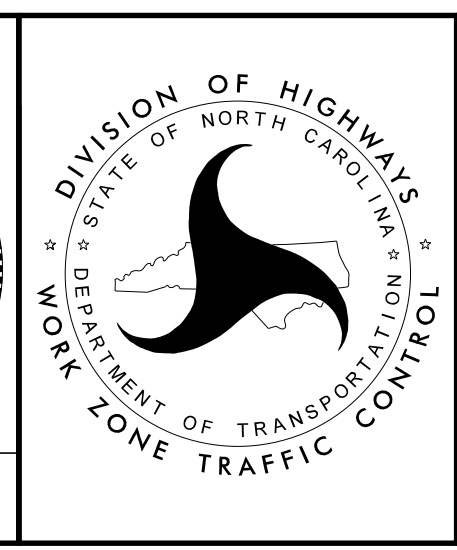
7901E857098415

SEAL 030952

ENGINEER

DAVIDER D. FARMER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

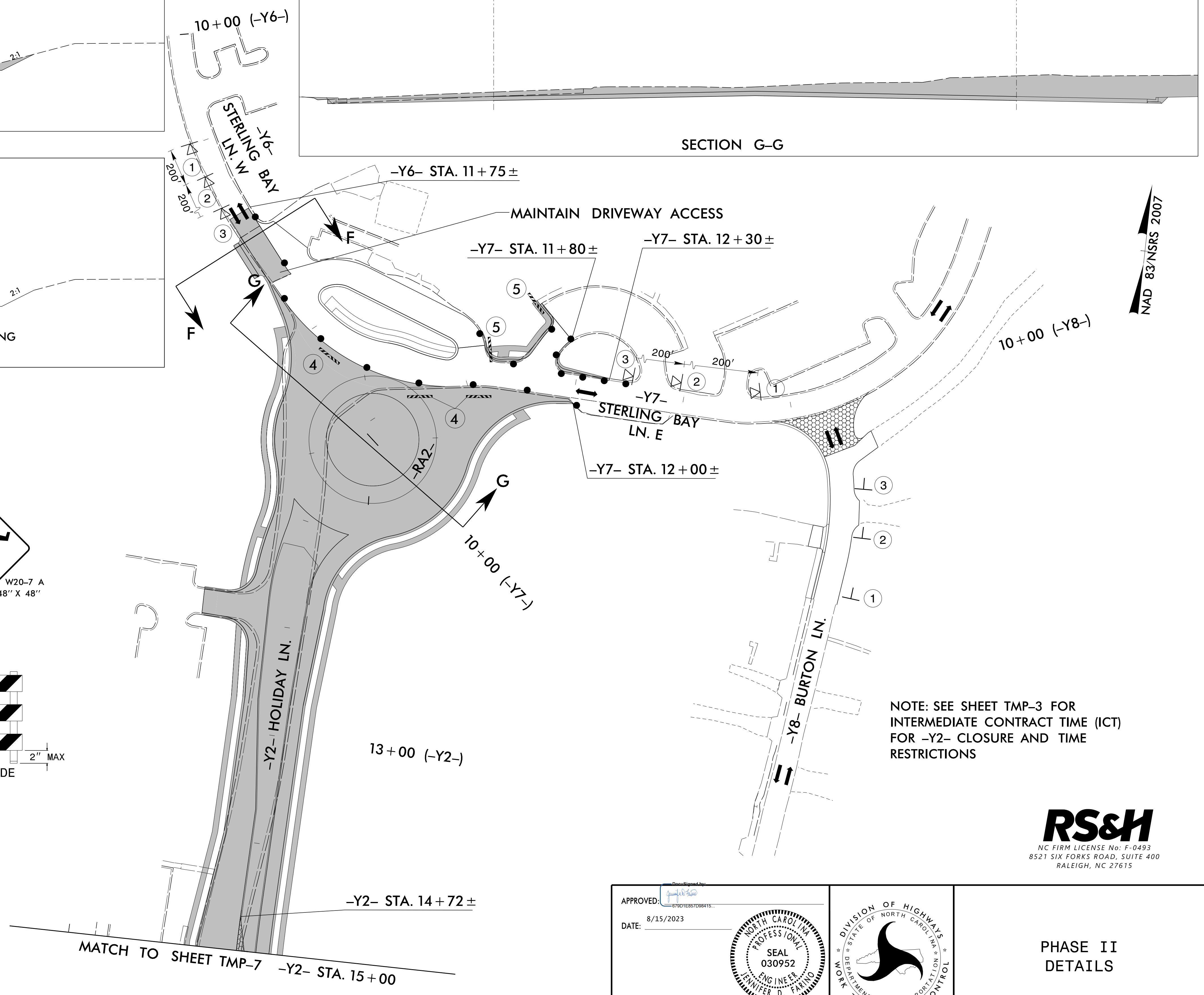
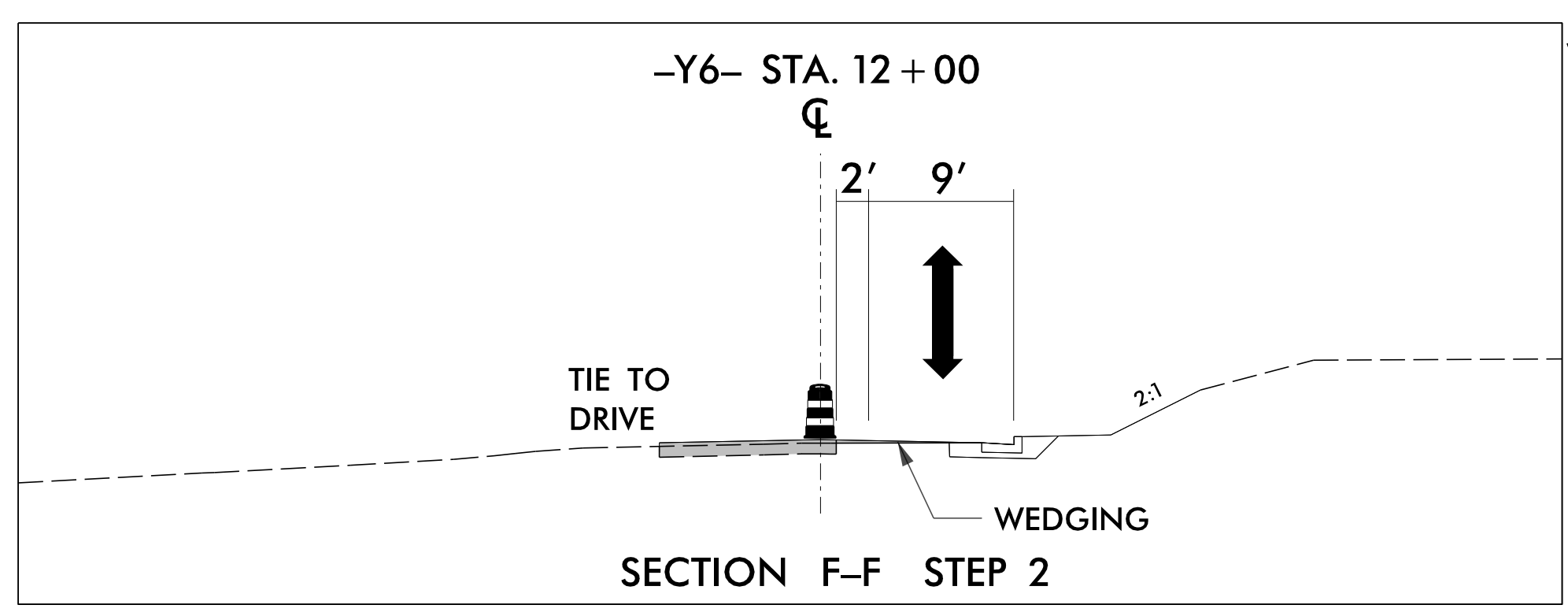
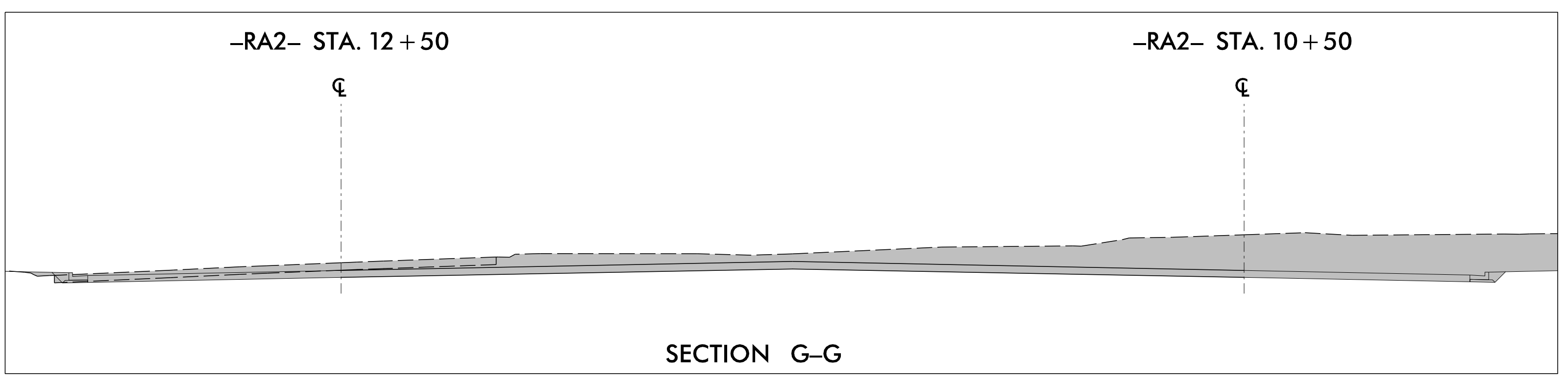
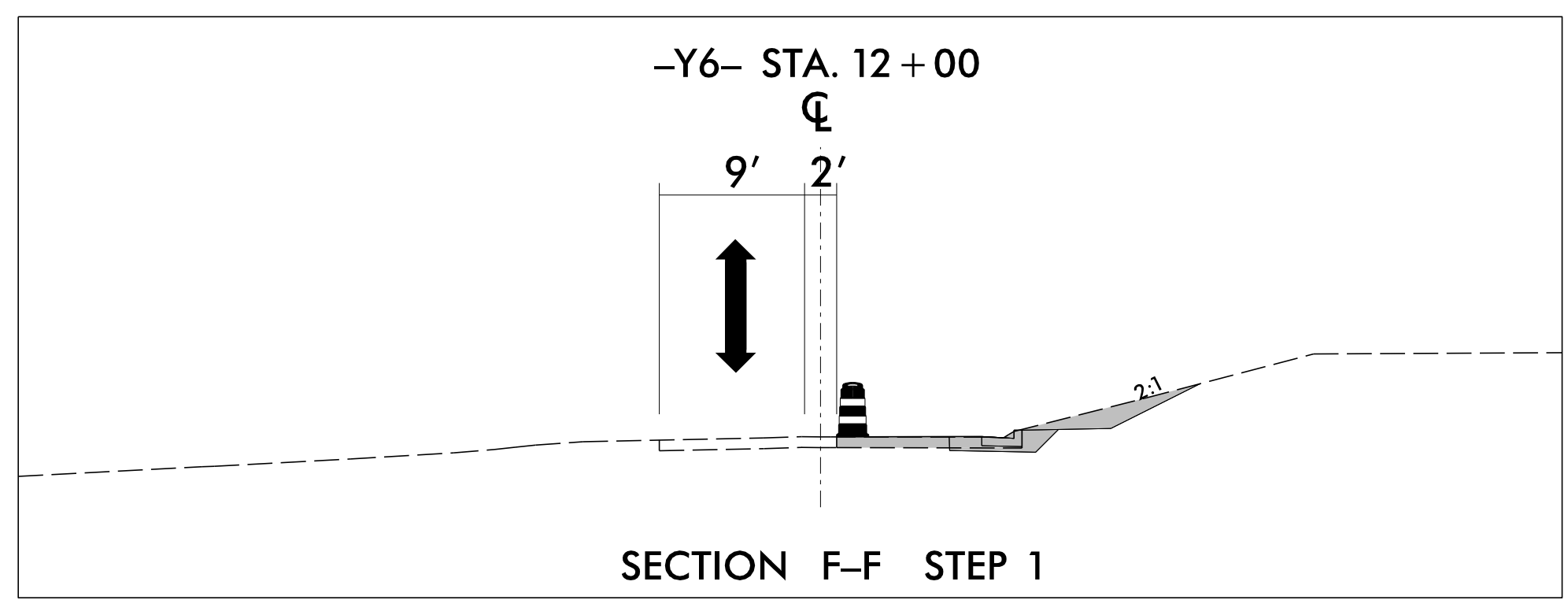


PHASE II DETAILS

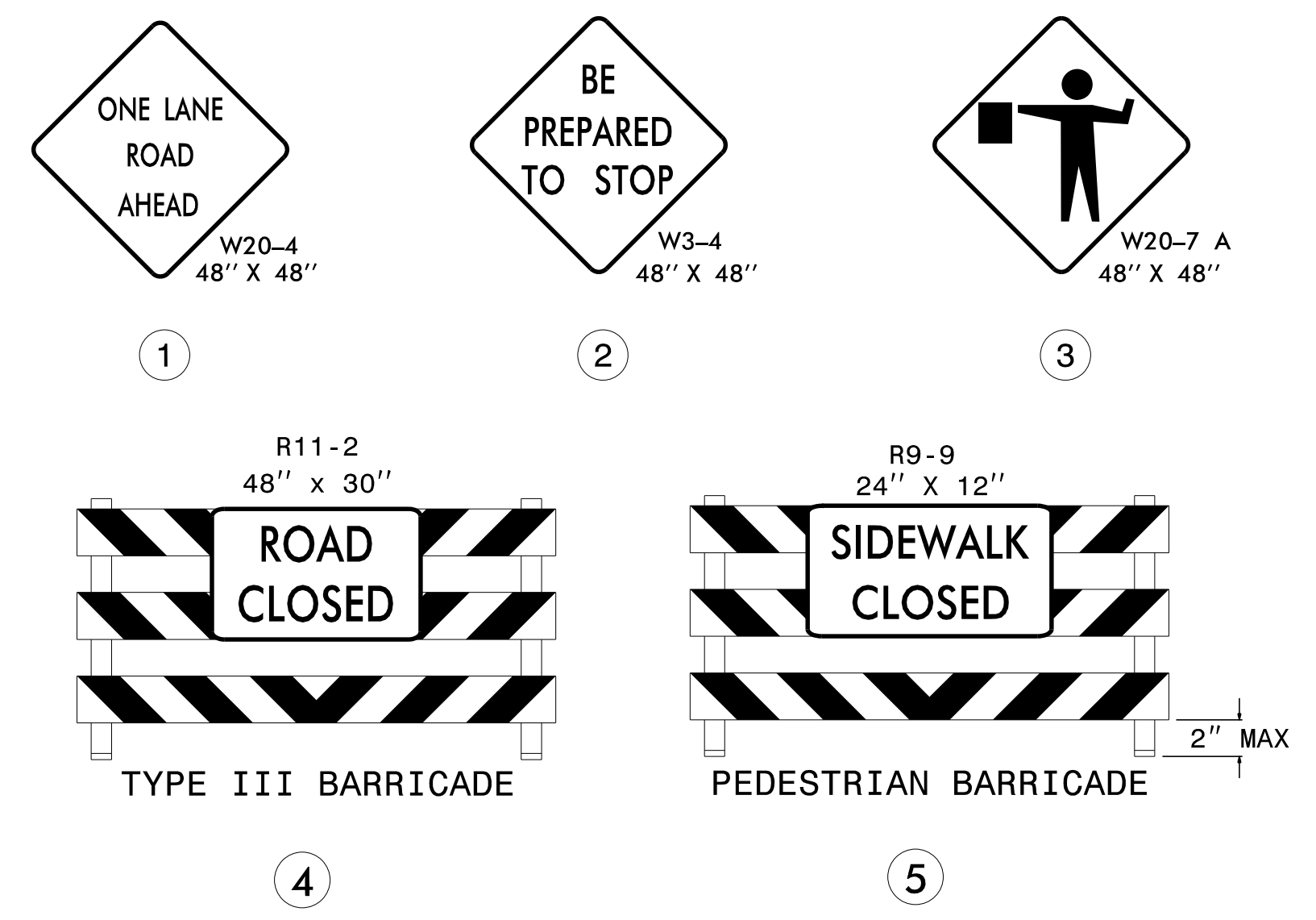
8/15/2023
 R:\Traffic\Traffic Control\TCP\C5621\TC_TMP_pii.dwg
 User:Avgerin



PROJ. REFERENCE NO.	SHEET NO.
C-5621	TMP-8



NAD 83/NSRS 2007



NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) FOR -Y2- CLOSURE AND TIME RESTRICTIONS

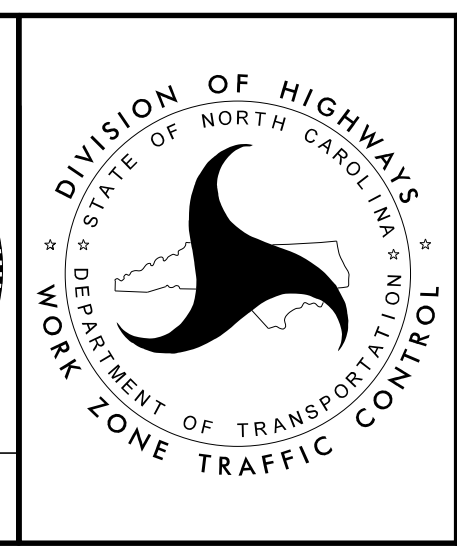


APPROVED: [Signature]

DATE: 8/15/2023

SEAL 030952 ENGINEER JENNIFER D. FARMER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



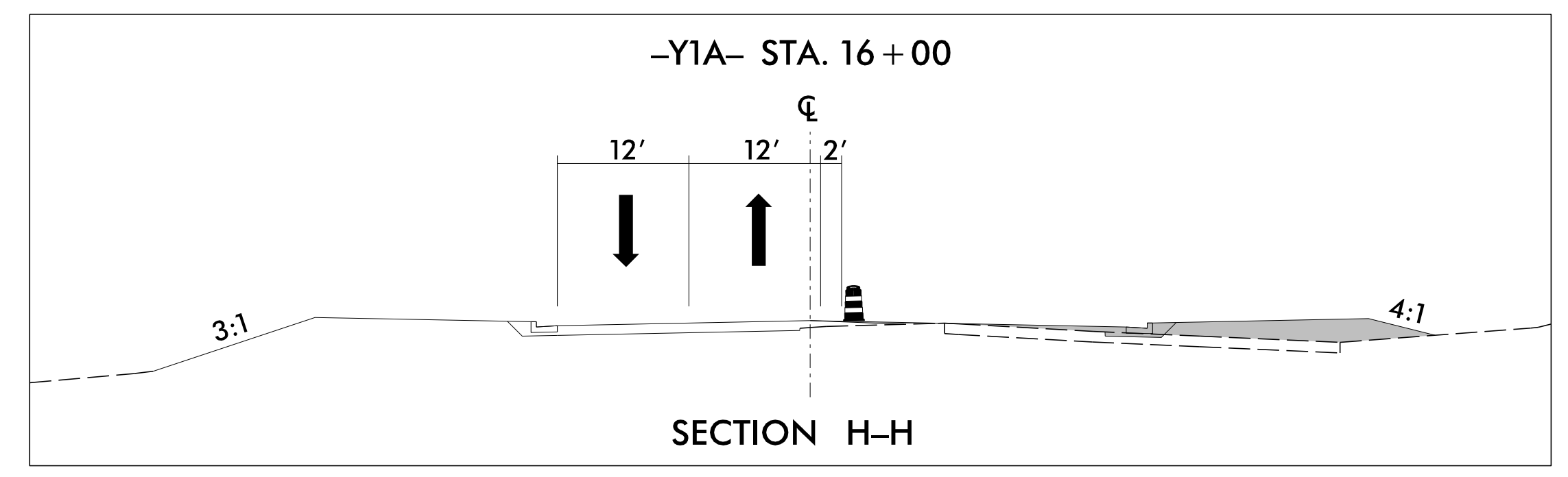
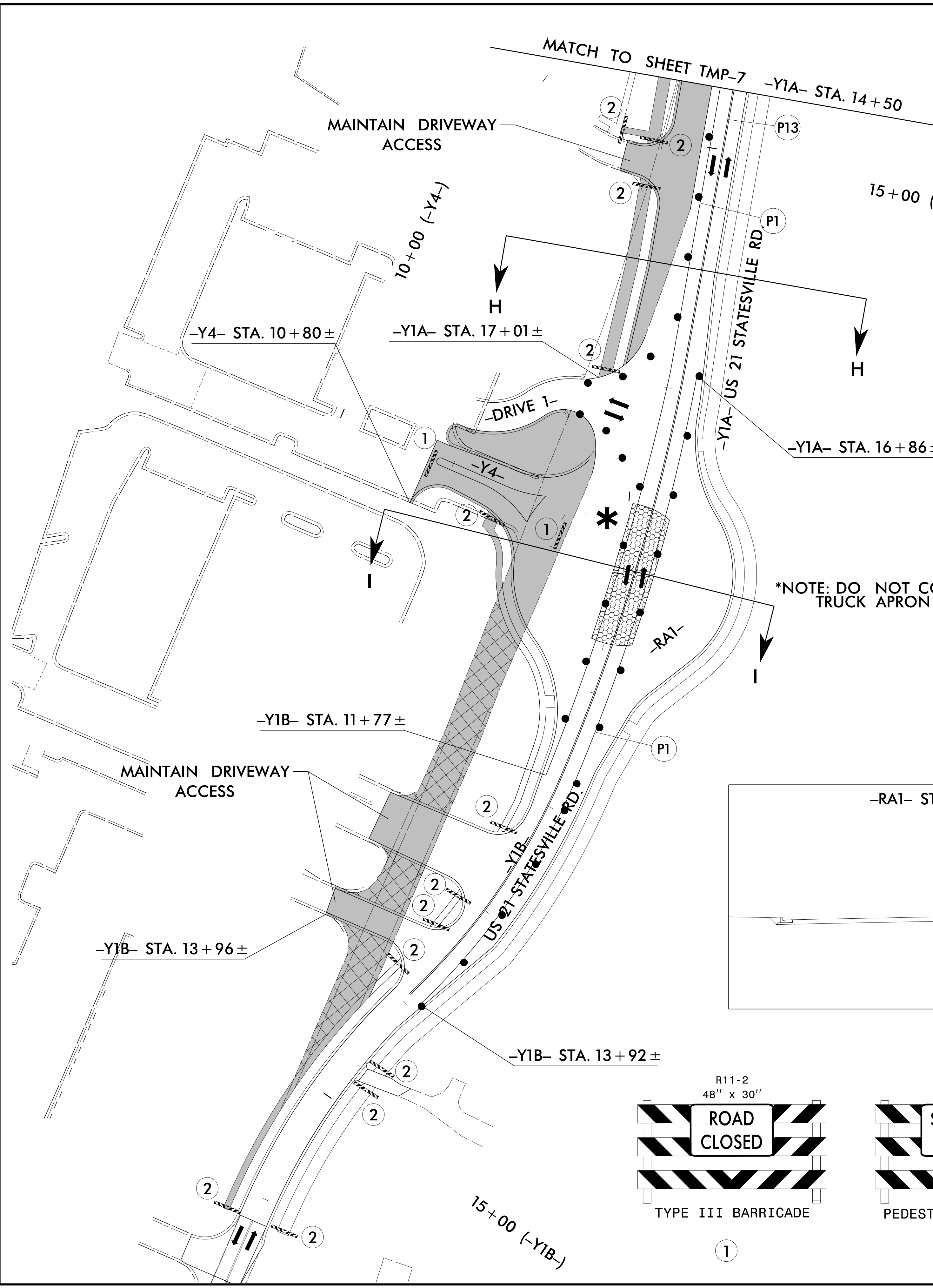
PHASE II DETAILS

8/15/2023 R:\Traffic\Traffic Control\TCP\NC5621\TC_TMP_pii.dtl User:Avgerin



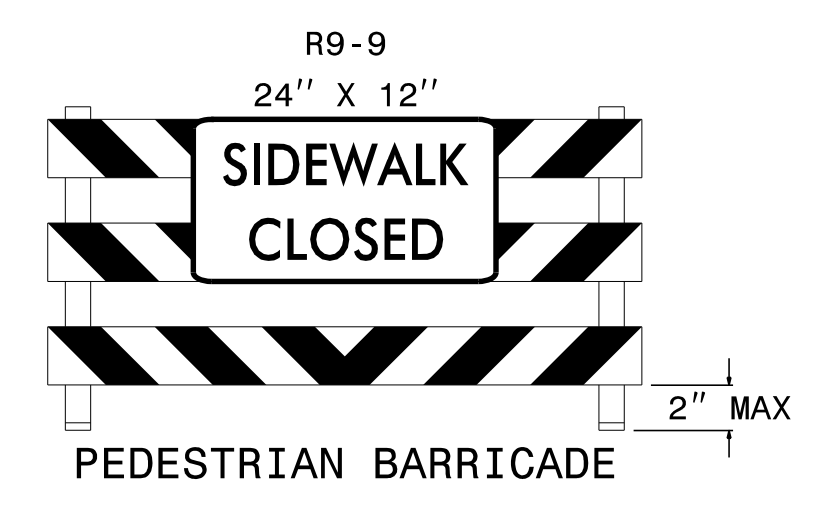
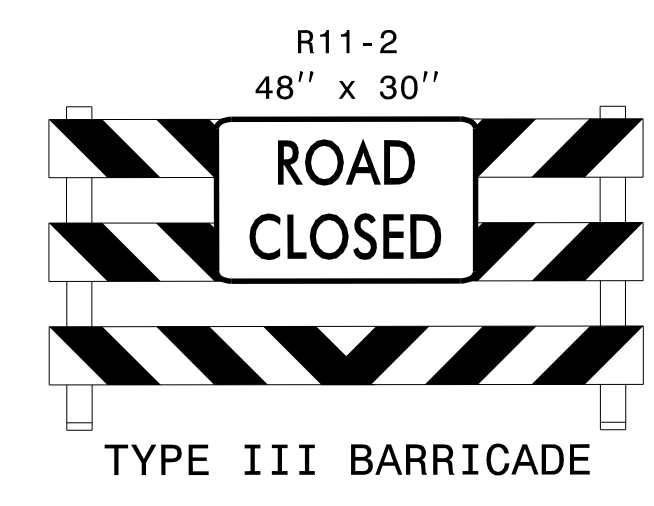
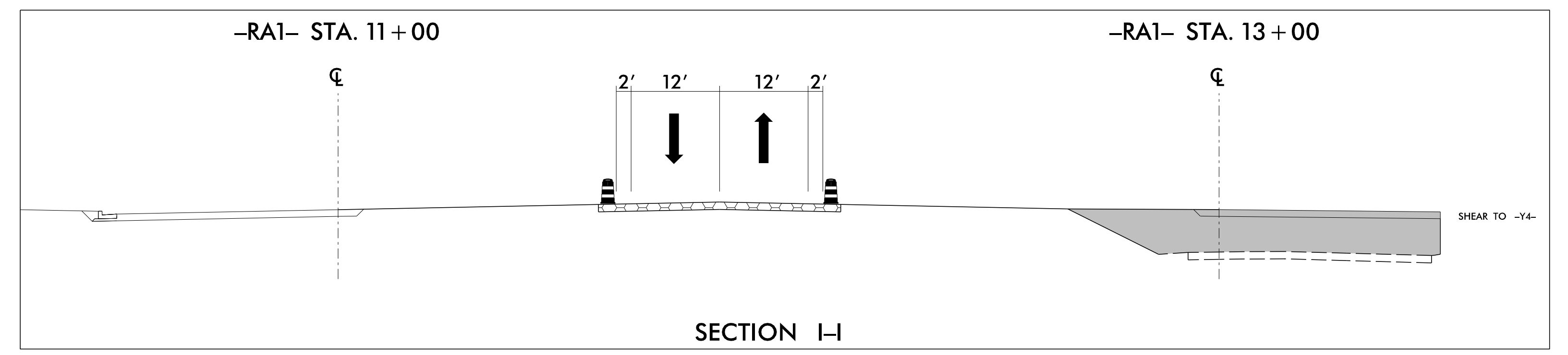
PROJ. REFERENCE NO.	SHEET NO.
C-5621	TMP-9

NAD 83/NSRS 2007



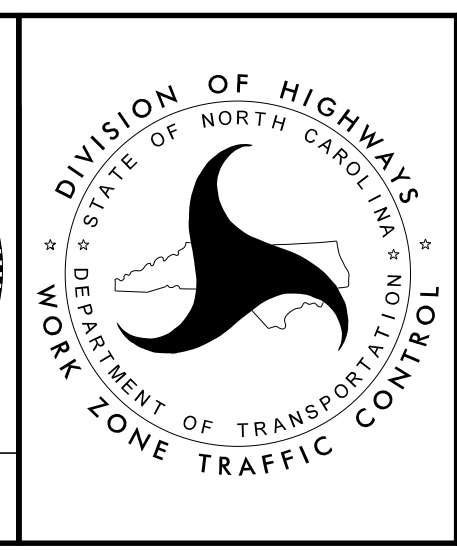
*NOTE: DO NOT CONSTRUCT CURB AND TRUCK APRON UNTIL PHASE IV

NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) LANE CLOSURE AND TIME RESTRICTIONS.



APPROVED: [Signature]
DATE: 7/10/2023

SEAL
030952
ENGINEER
DENWIER D. FARMING



RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615

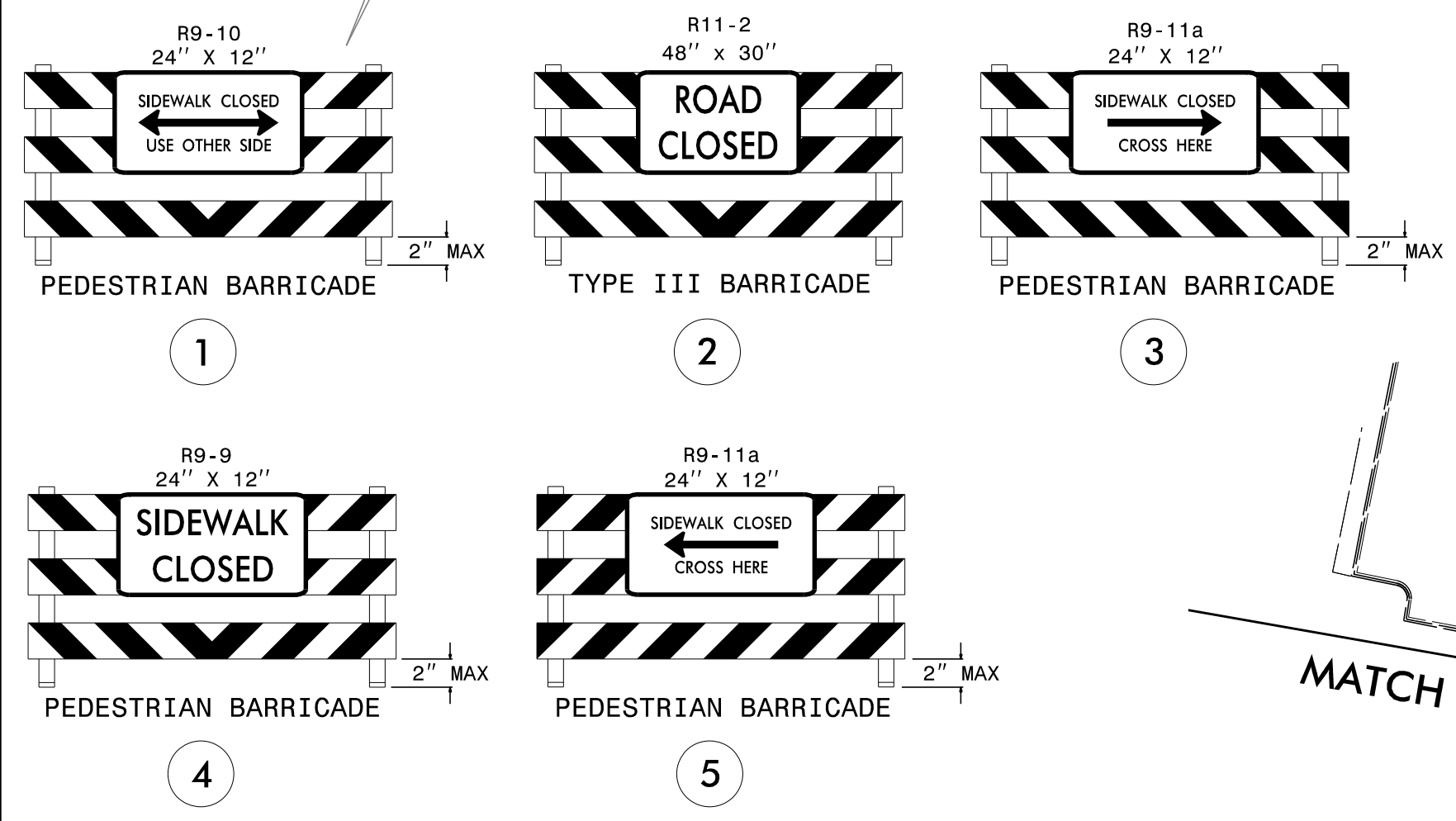
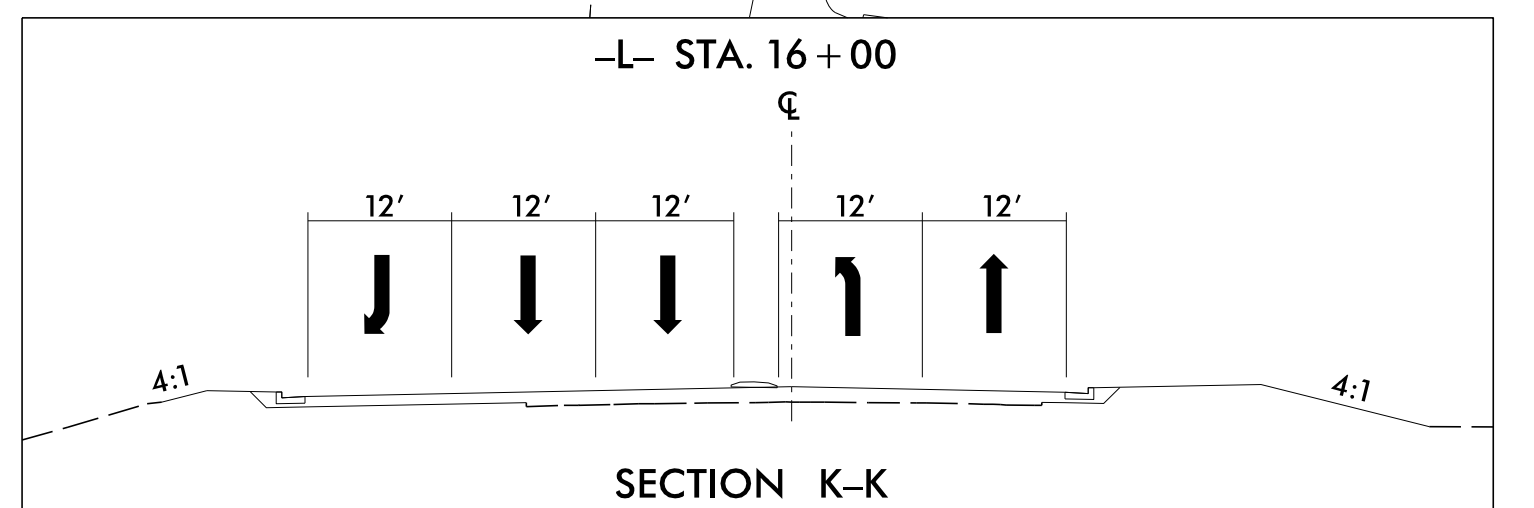
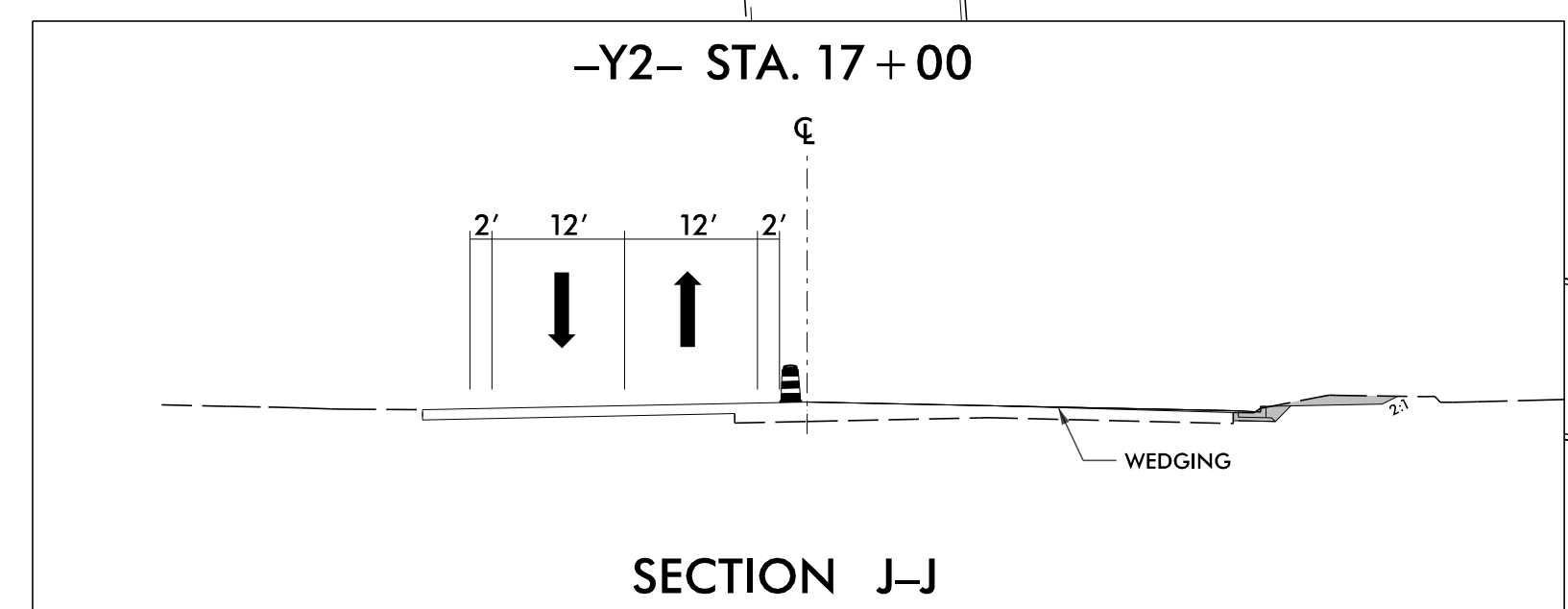
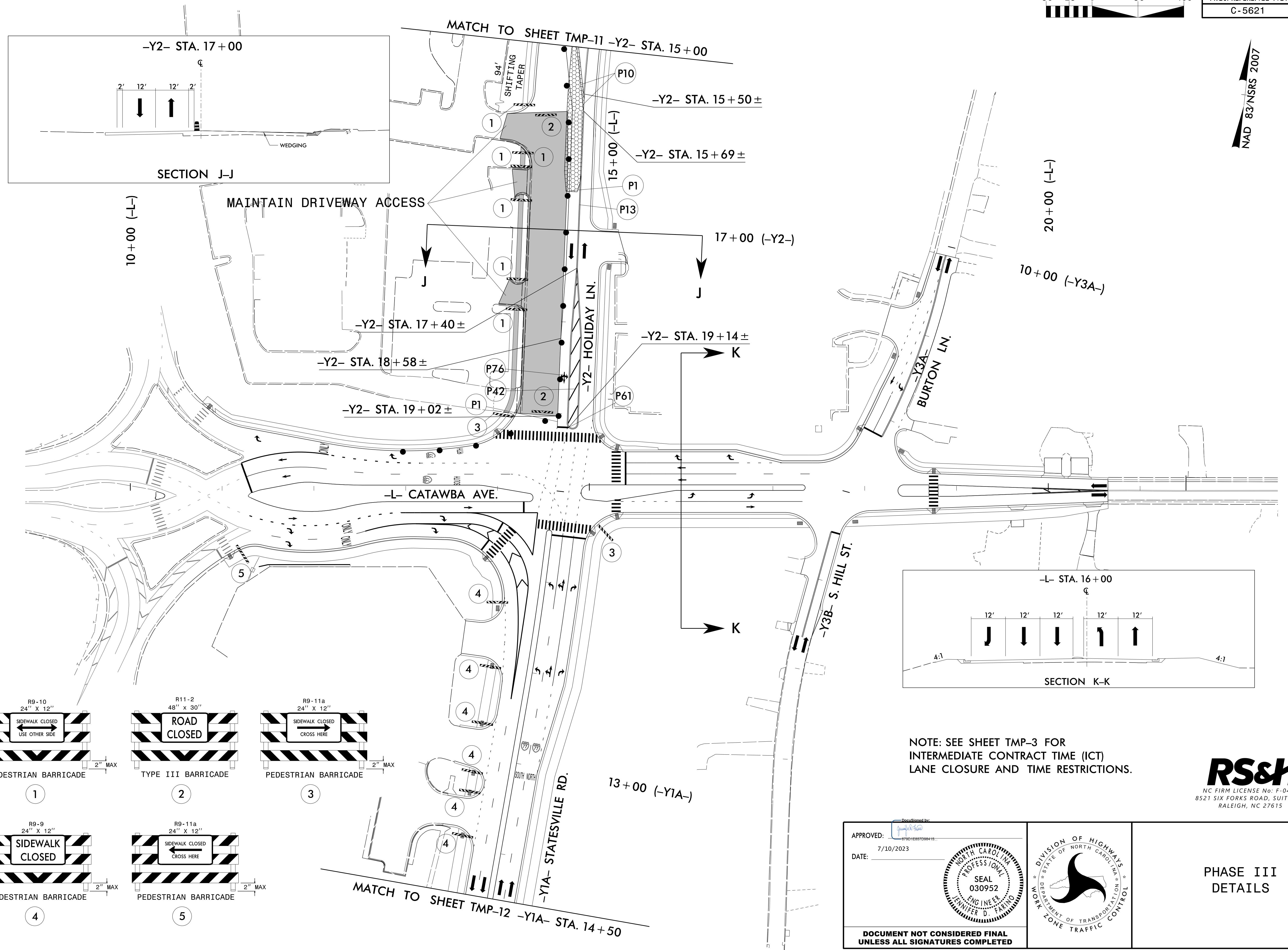
PHASE II DETAILS

6/26/2023
R:\Traffic\Traffic Control\TCP\C5621\TC_TMP_pii.dtl.03.dgn
User:McLaughlin



PROJ. REFERENCE NO.	SHEET NO.
C-5621	TMP-10

NAD 83/NSRS 2007



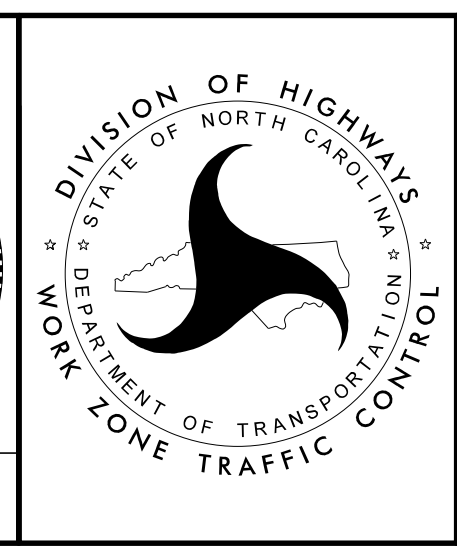
NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) LANE CLOSURE AND TIME RESTRICTIONS.



APPROVED: [Signature]
 DATE: 7/10/2023

Seal: NORTH CAROLINA PROFESSIONAL SEAL 030952 ENGINEER LAWYER D. P. FARMER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

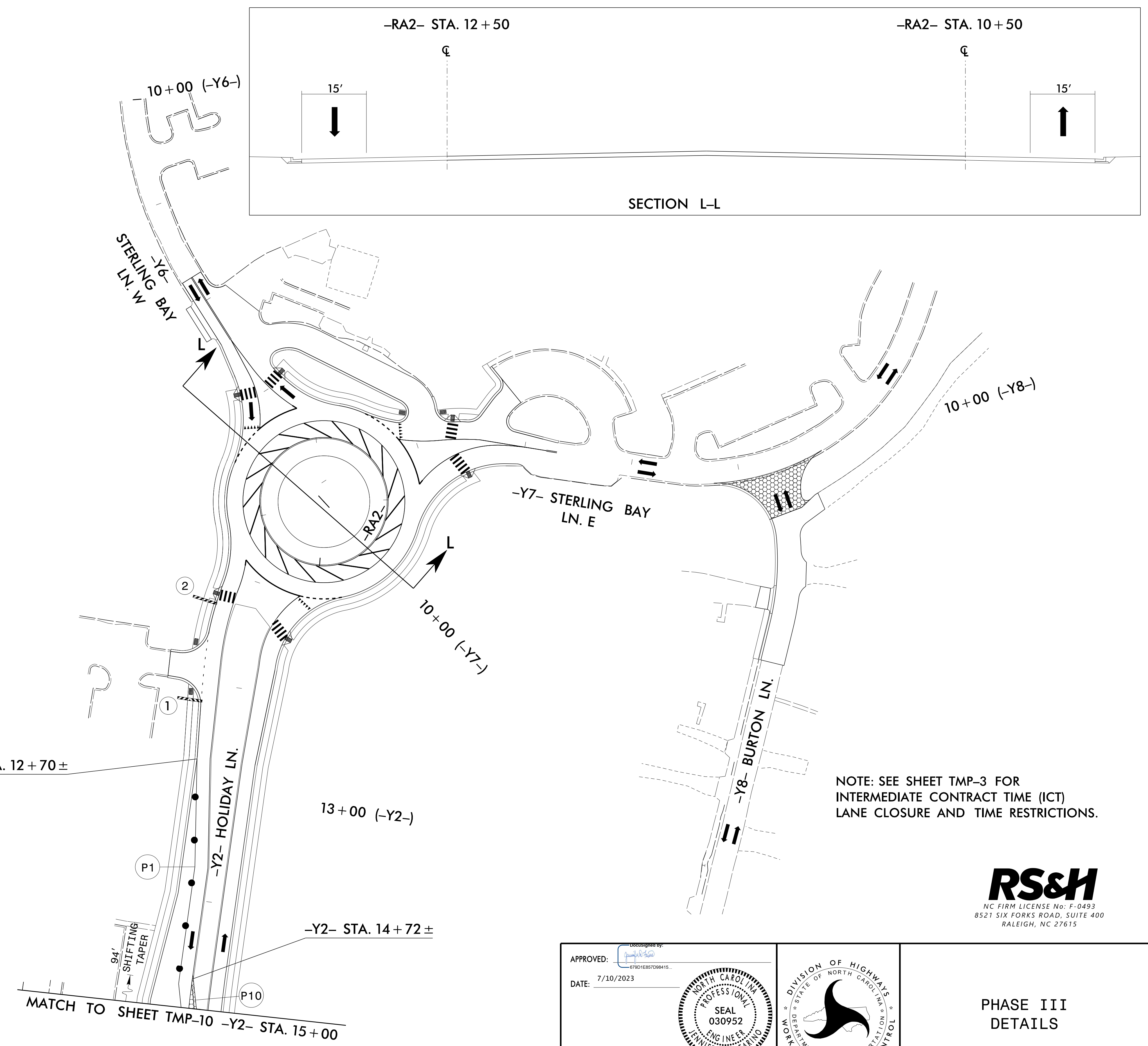
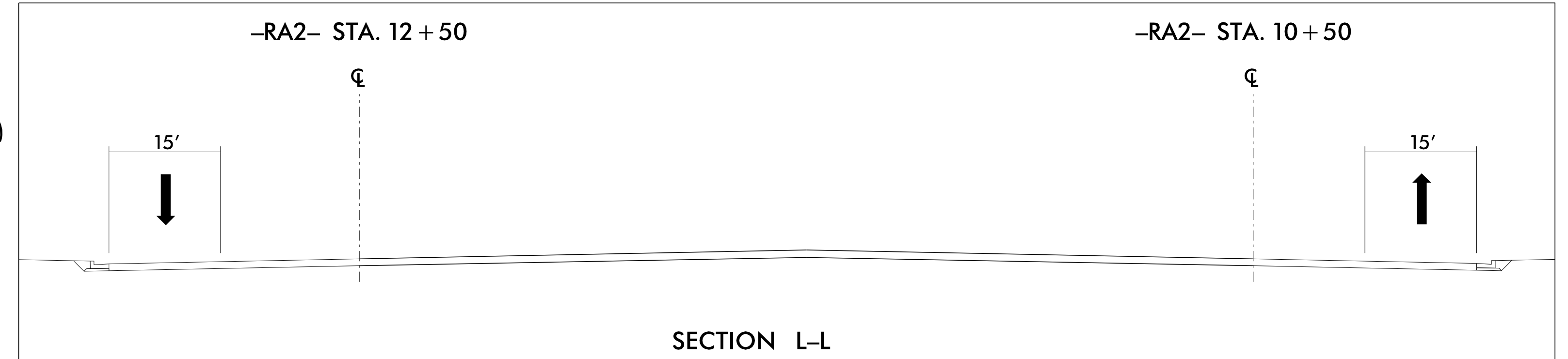
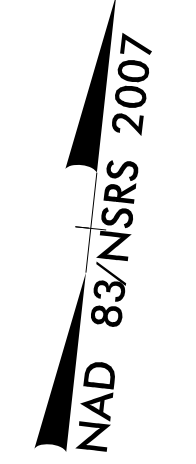


PHASE III DETAILS

6/26/2023 R:\Traffic\Traffic Control\TC\5621\TC_TMP_piita.dtl User:McLaughr



PROJ. REFERENCE NO.	SHEET NO.
C-5621	TMP-11



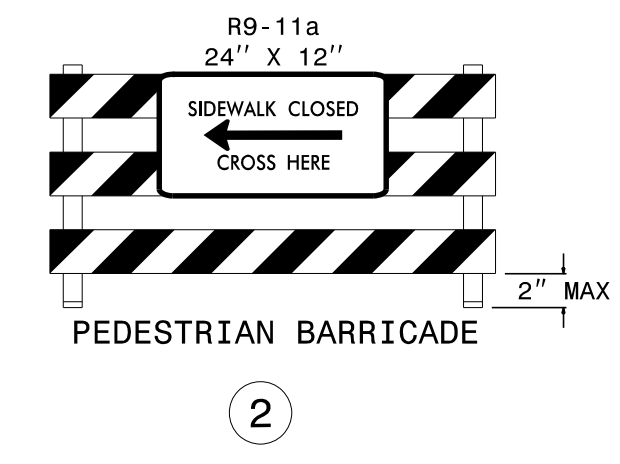
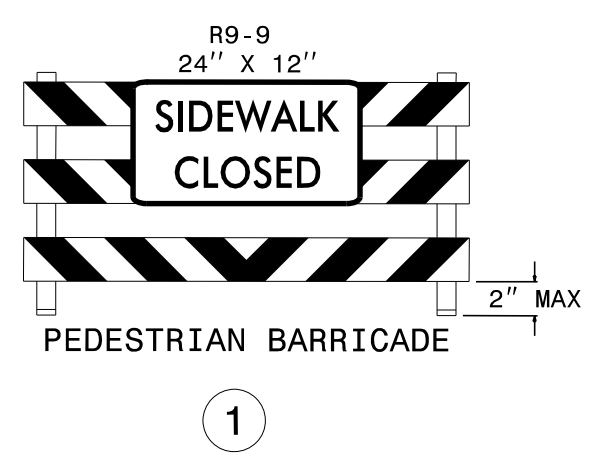
-Y2- STA. 12 + 70 ±

13+00 (-Y2-)

-Y2- STA. 14 + 72 ±

MATCH TO SHEET TMP-10 -Y2- STA. 15 + 00

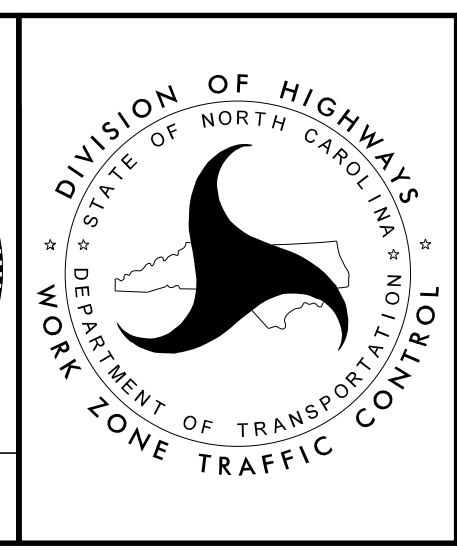
NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) LANE CLOSURE AND TIME RESTRICTIONS.



APPROVED:

DATE: 7/10/2023

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



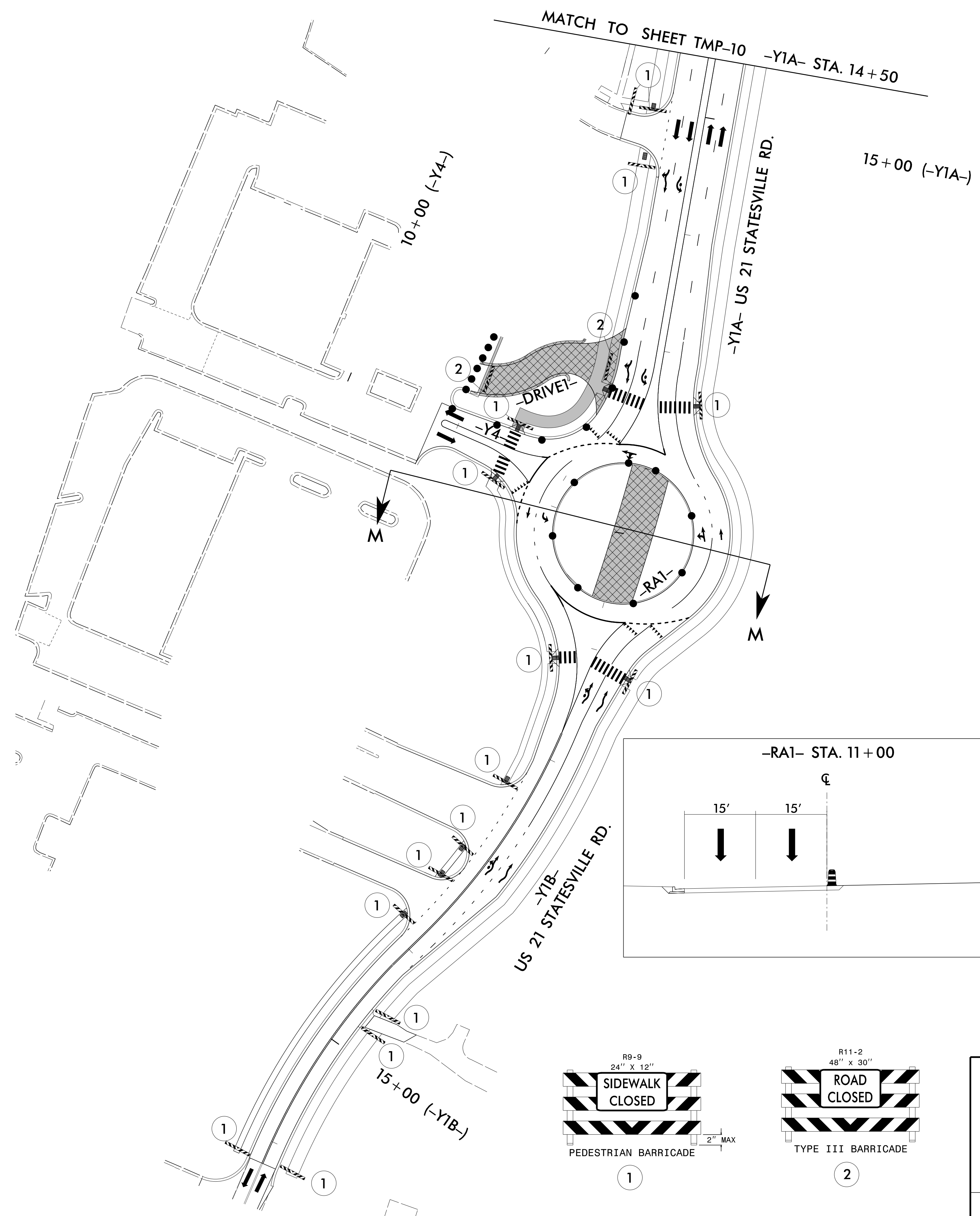
PHASE III
DETAILS

6/26/2023
R:\Traffic\Traffic Control\TCP\C5621\TC-TMP-pllta.dtl.02.dgn
User:McLaughlin

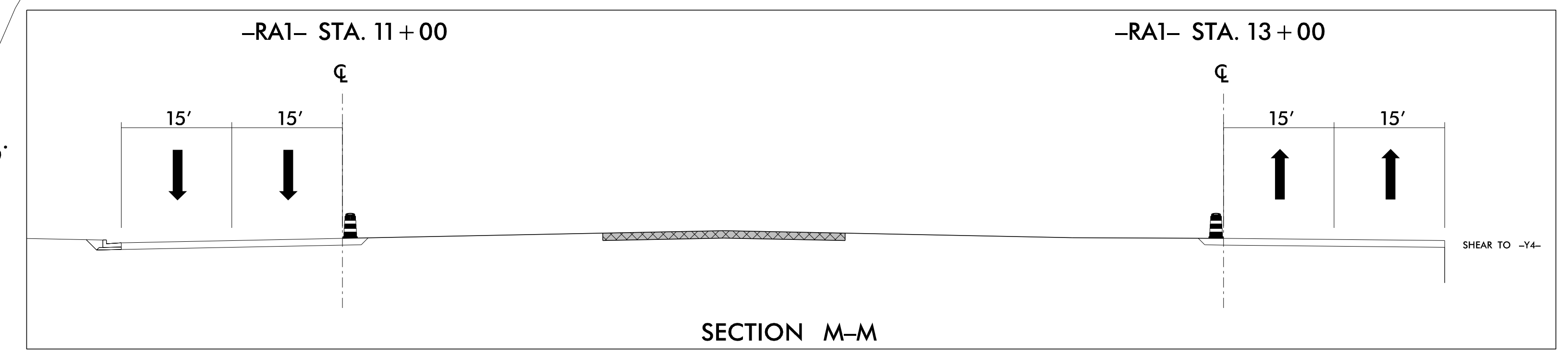


PROJ. REFERENCE NO.	SHEET NO.
C-5621	TMP-12

NAD 83/NSRS 2007



NOTE: SEE SHEET TMP-3 FOR
INTERMEDIATE CONTRACT TIME (ICT)
LANE CLOSURE AND TIME RESTRICTIONS.



RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615



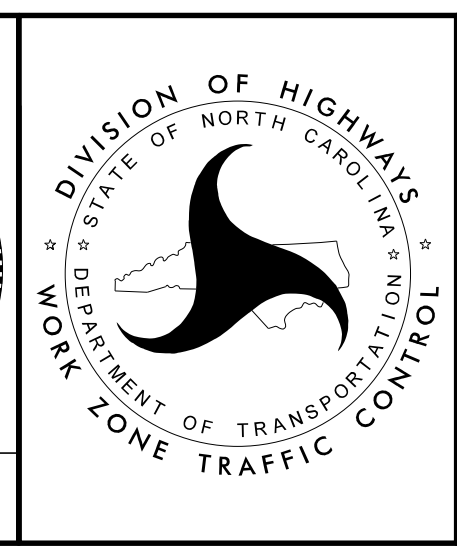
APPROVED:

DATE: 7/10/2023

67801E887D98415

PROFESSIONAL SEAL
030952
ENGINEER
JENNIFER D. FANNING

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



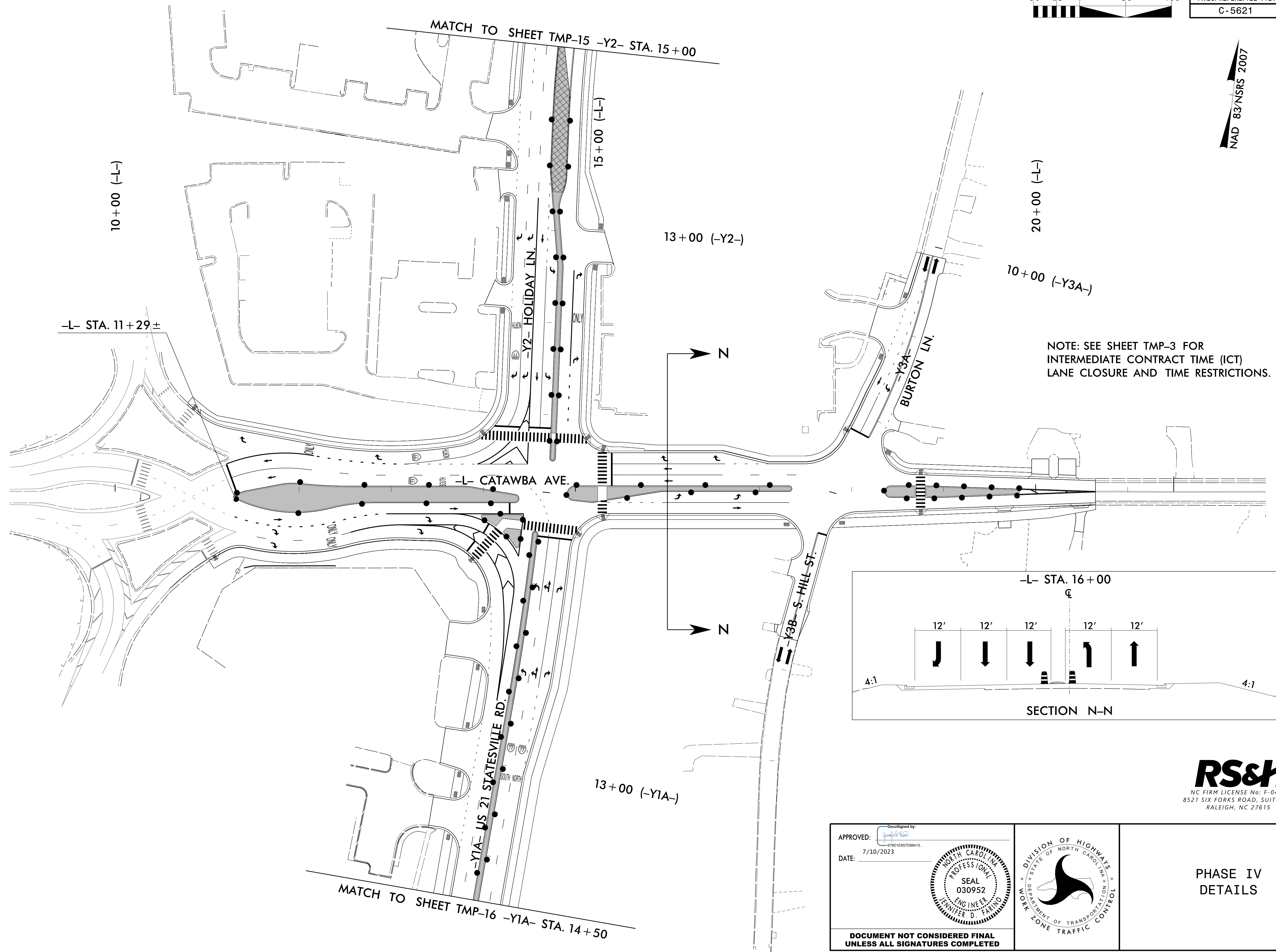
PHASE III
DETAILS

6/26/2023
R:\Traffic\Traffic Control\TCP\C5621\TC_TMP_piita.dtl.03.dgn
User:McLaughR



PROJ. REFERENCE NO.	SHEET NO.
C-5621	TMP-13

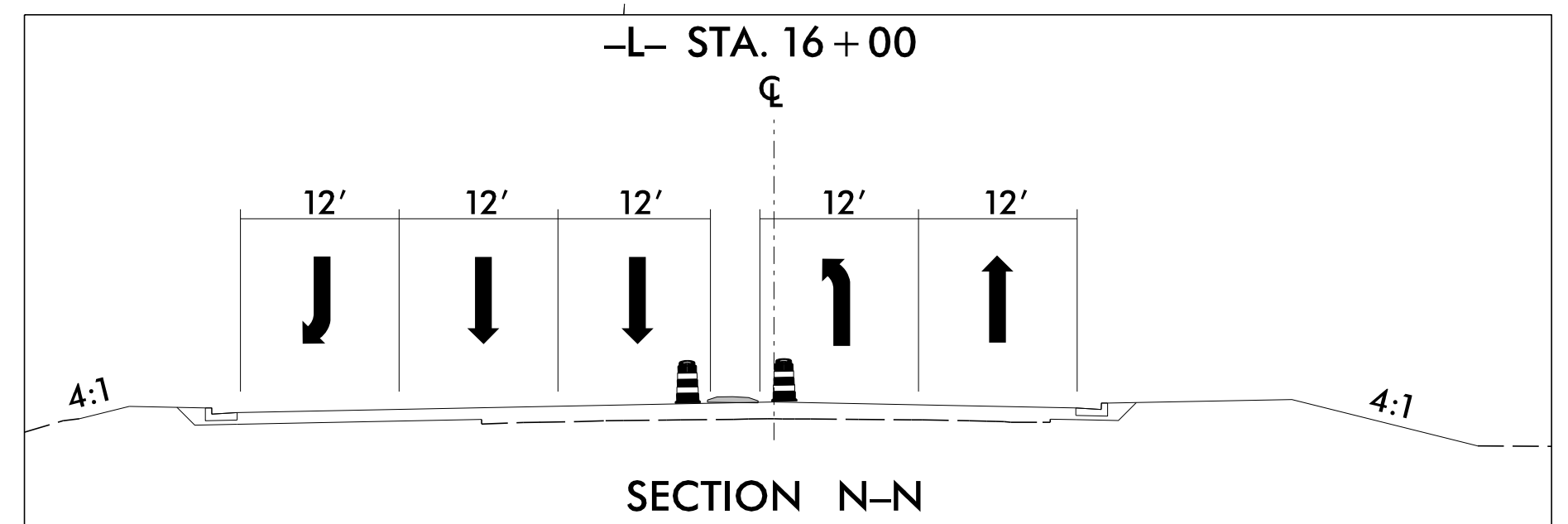
NAD 83/NSRS 2007



-L- STA. 11+29±

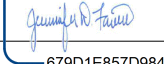
MATCH TO SHEET TMP-15 -Y2- STA. 15+00

NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) LANE CLOSURE AND TIME RESTRICTIONS.

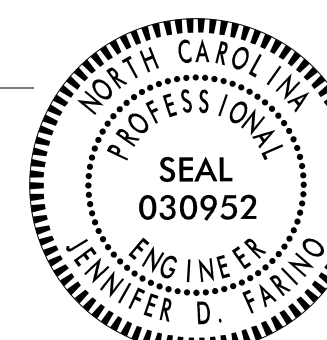


MATCH TO SHEET TMP-16 -Y1A- STA. 14+50

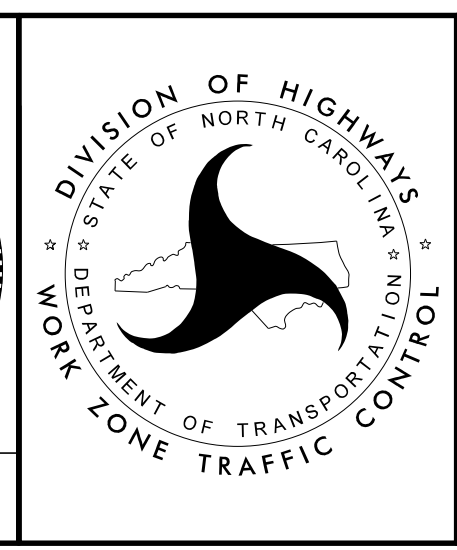
6/26/2023
R:\Traffic\Traffic Control\TNC\5621\TC-TMP-piv_dtl_01.dgn
User:McLaughlin

APPROVED: 
DATE: 7/10/2023

DocuSigned by:
07901E857D08415



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

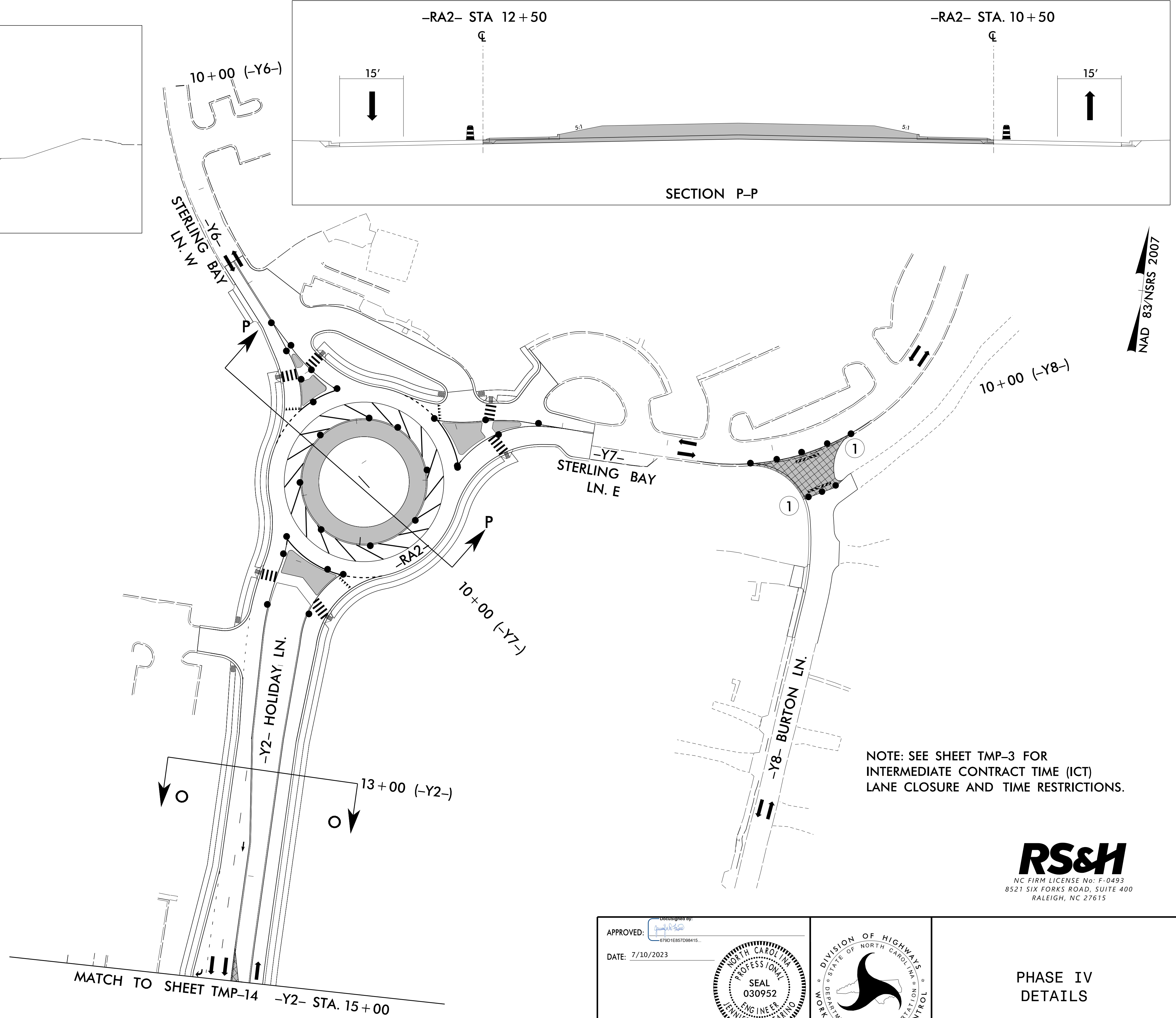
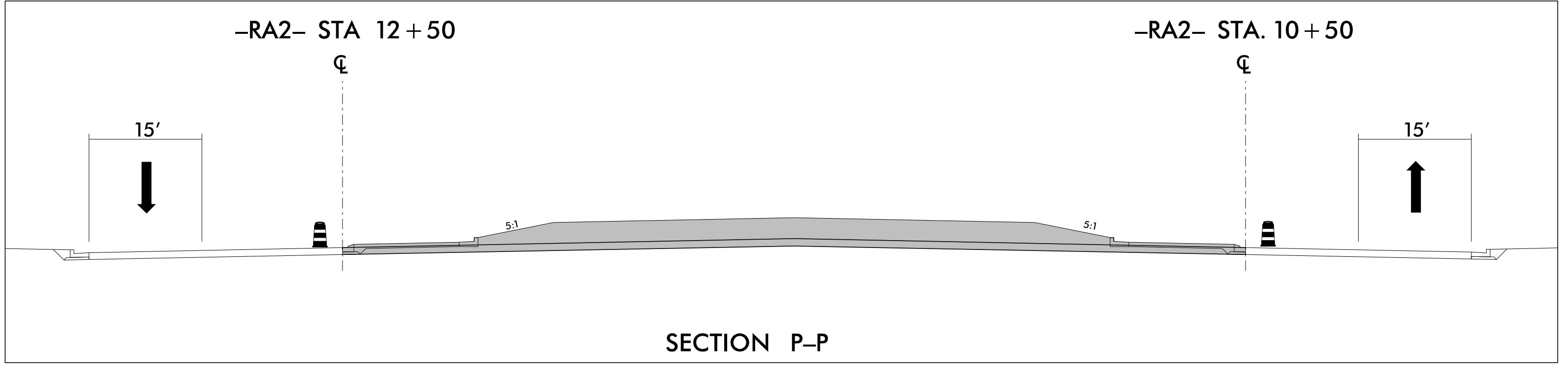
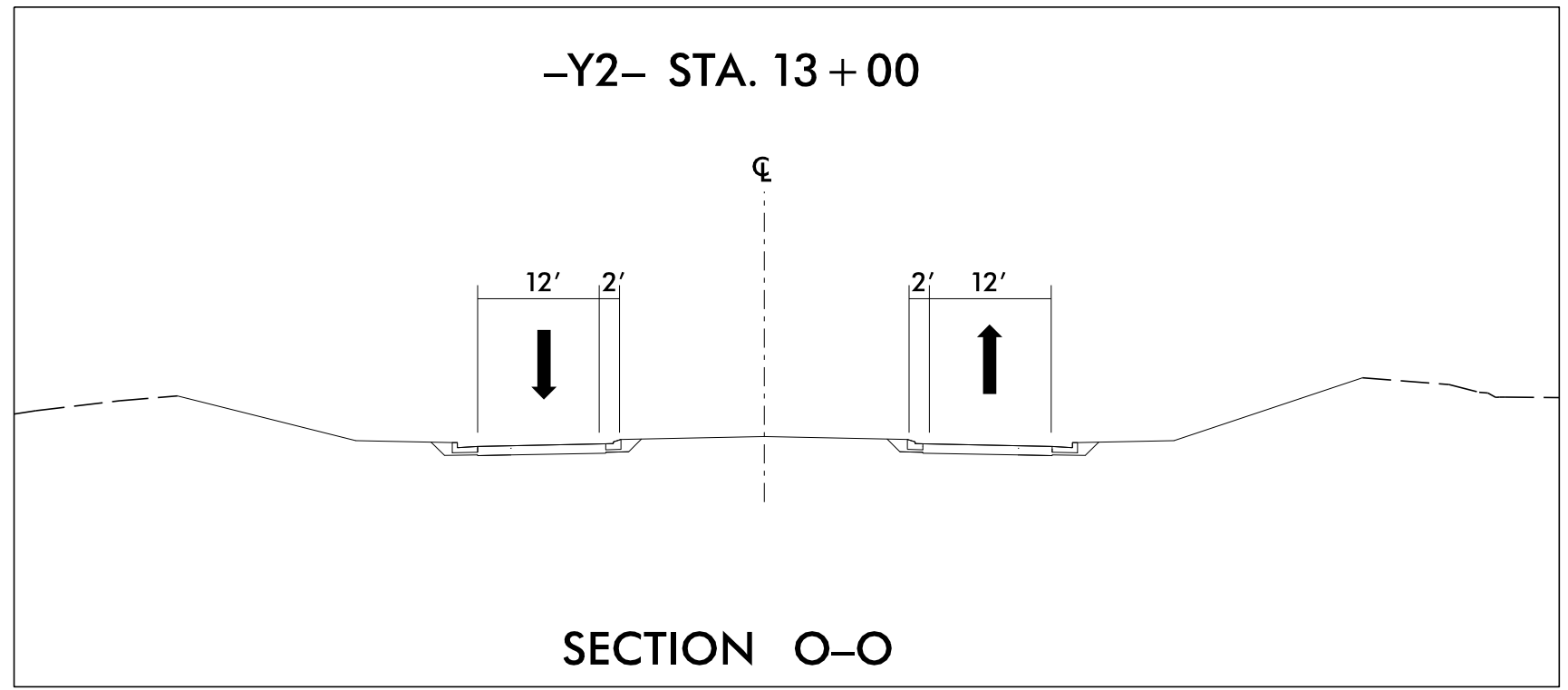


PHASE IV
DETAILS

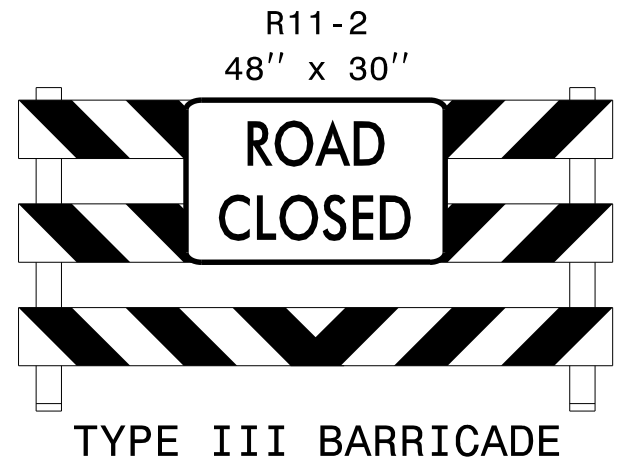
RS&H
 NC FIRM LICENSE No: F-0493
 8521 SIX FORKS ROAD, SUITE 400
 RALEIGH, NC 27615



PROJ. REFERENCE NO.	SHEET NO.
C-5621	TMP-14



NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) LANE CLOSURE AND TIME RESTRICTIONS.



1

MATCH TO SHEET TMP-14 -Y2- STA. 15+00

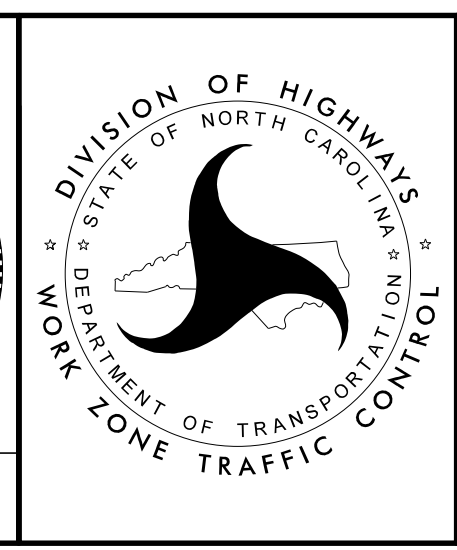
RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615

APPROVED: [Signature]

DATE: 7/10/2023

SEAL
030952
ENGINEER
DENNIE D. FARMER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



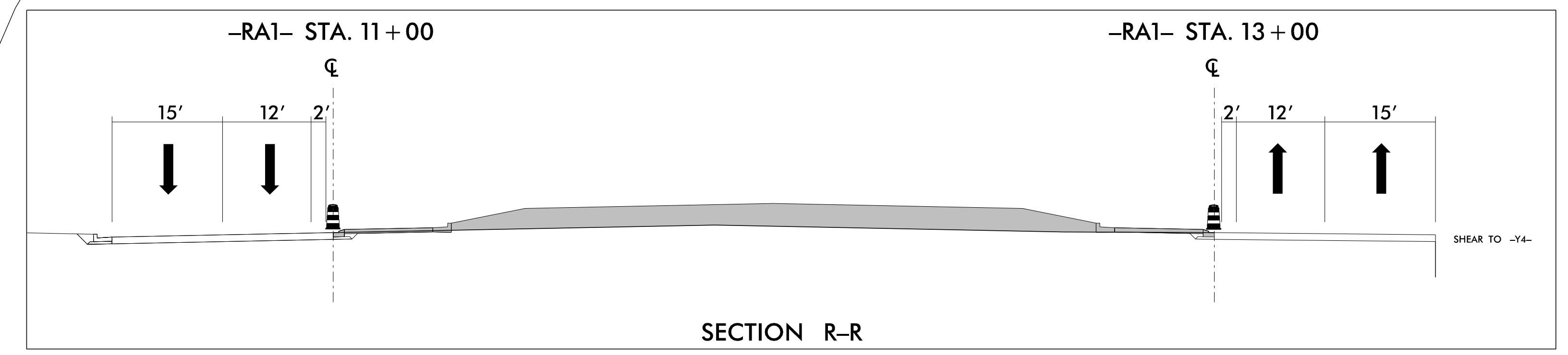
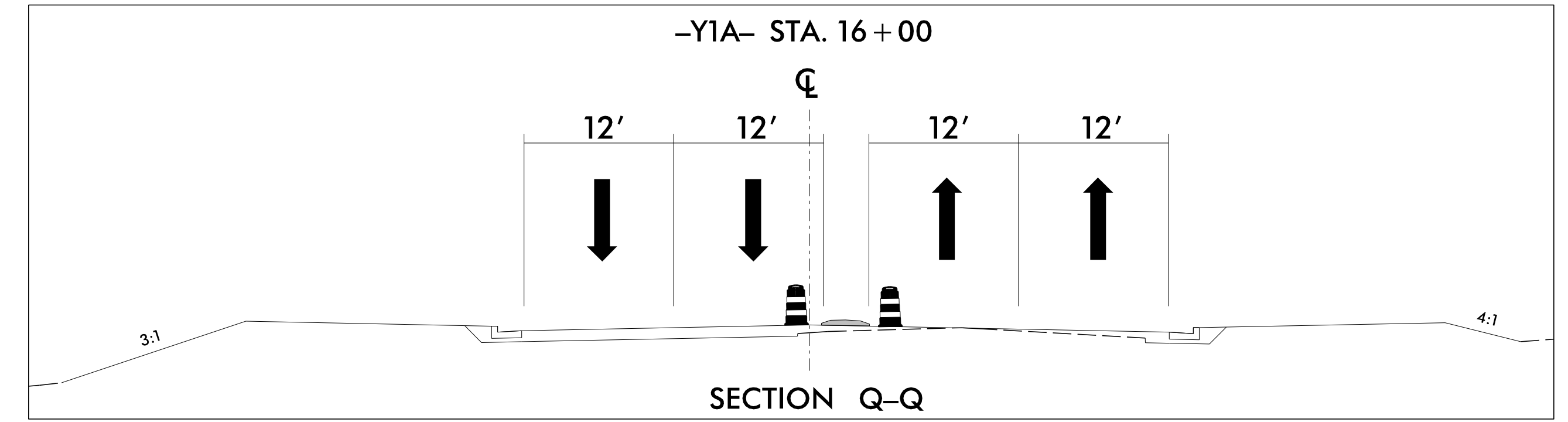
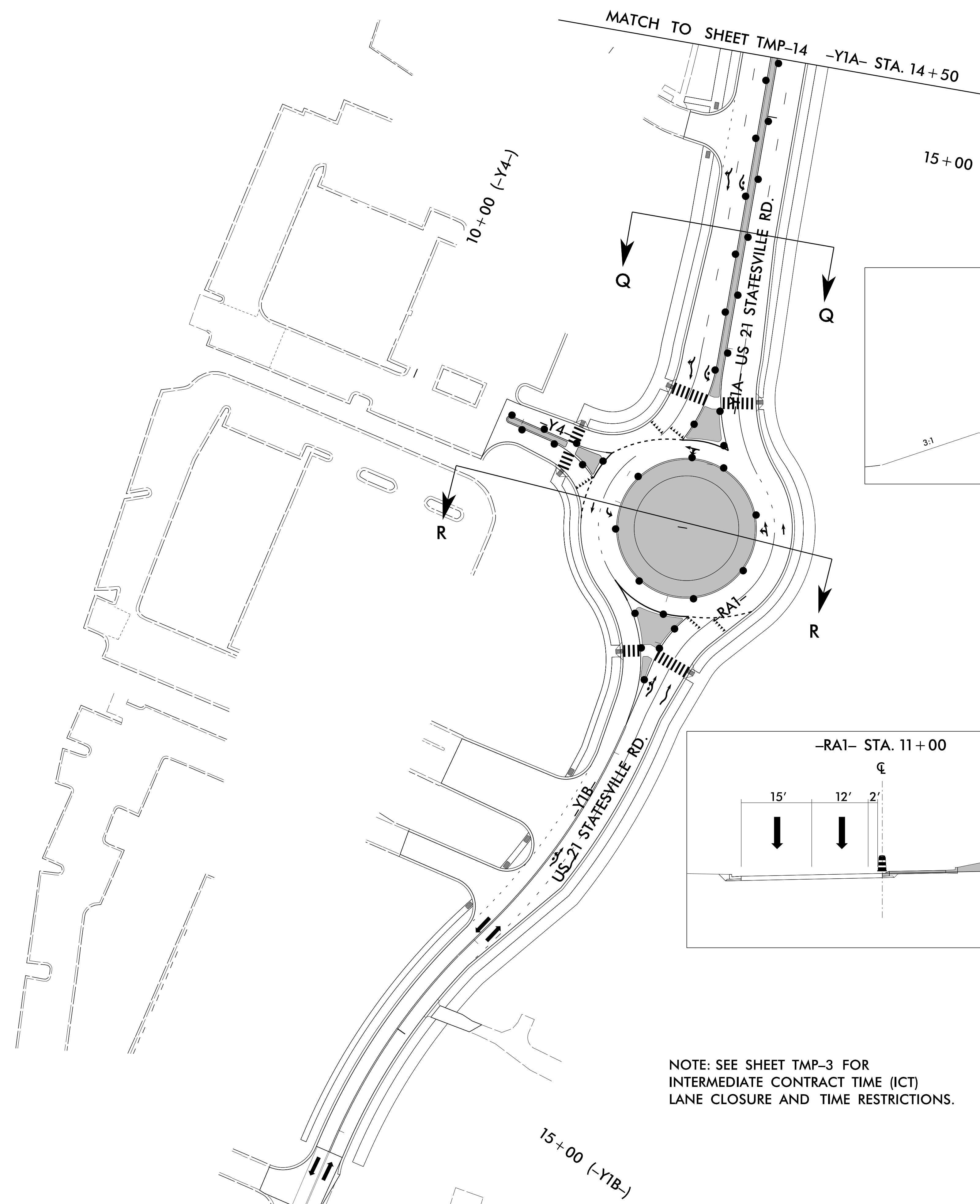
PHASE IV
DETAILS

6/26/2023
R:\Traffic\Traffic Control\TCP\C5621\TC_TMP_piv_dtl_02.dgn
User:McLaughlin



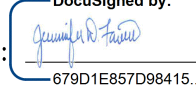
PROJ. REFERENCE NO.	SHEET NO.
C-5621	TMP-15


NAD 83/NSRS 2007



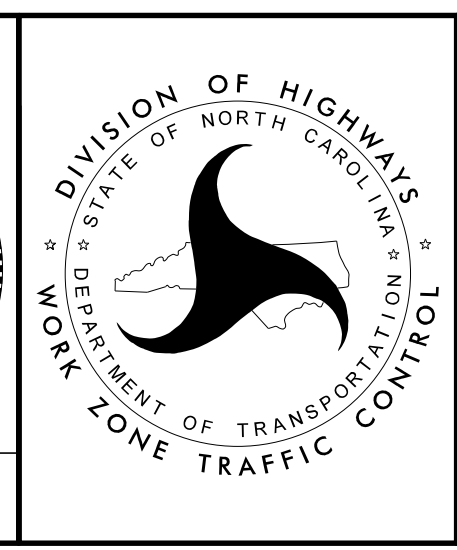
6/26/2023
R:\Traffic\Traffic Control\TCP\C5621\TC-TMP_piv_dtl_03.dgn
User:McLaughr

NOTE: SEE SHEET TMP-3 FOR INTERMEDIATE CONTRACT TIME (ICT) LANE CLOSURE AND TIME RESTRICTIONS.

APPROVED: 
DATE: 7/10/2023



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



**PHASE IV
DETAILS**

RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615