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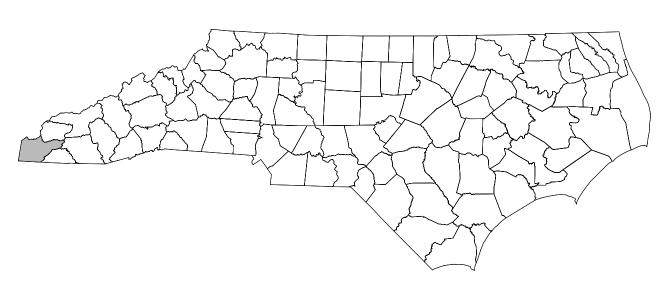
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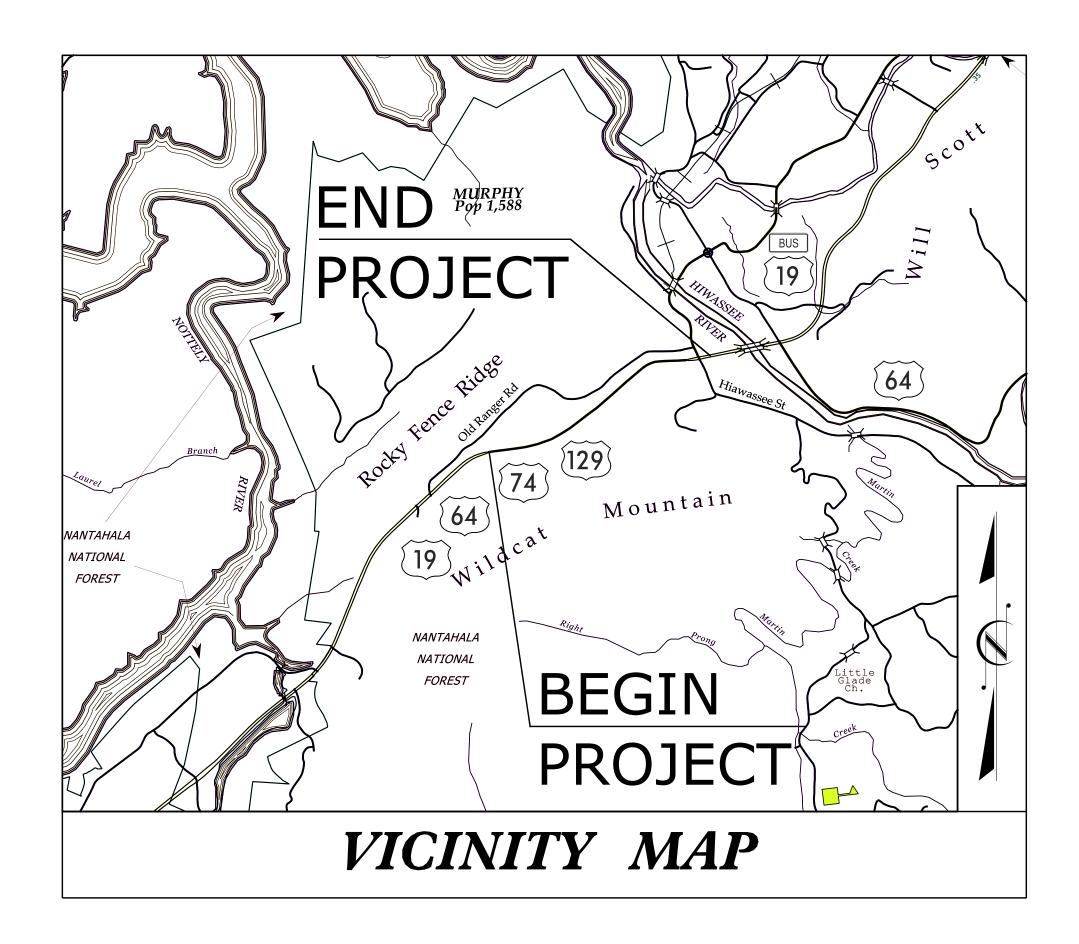
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CHEROKEE COUNTY

DIVISION 14





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PLAN PREPARED BY: MICHAEL BAKER INTERNATIONAL

Michael Baker

INTERNATIONAL

GEORGE M. KARAGEORGE, PE

TRAFFIC ENGINEER-NC OPERATIONS

BIRGIT C. MACKENZIE

TRANSPORTATION DESIGNER

8000 Regency Parkway, Suite 600, Cary, NC 27518 Phone: (919) 463-5488 MBAKERINTL.COM PROFESSIONAL CORPORATION LICENSE NO. F-1084

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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 ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
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1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS

LEGEND

GENERAL

---- EXIST. PVMT.

- PROPOSED PVMT.

DIRECTION OF TRAFFIC FLOW

WORK AREAS

PROPOSED ROADWAY CONSTRUCTION



PAVEMENT REMOVAL

TEMPORARY TRAFFIC CONTROL DEVICES

TYPE III BARRICADE

PEDESTRIAN CHANNELIZING DEVICES (ADA)

SKINNY DRUM
TUBULAR MARKER

CHANGEABLE MESSAGE SIGN (CMS)

AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

FLASHING ARROW BOARD(TYPE C)

LAW ENFORCEMENT

TRUCK MOUNTED ATTENUATOR (TMA)

WORK ZONE SIGN-PORTABLE

WORK ZONE SIGN-STATIONARY

WORK ZONE SIGN-STATIONARY OR PORTABLE

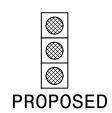
TEMPORARY SHORING

→ TEMPORARY CRASH CUSHION

PORTABLE CONCRETE BARRIER (PCB)

SIGNALS







TEMPORARY PAVEMENT MARKING LEGEND

PAINT PAVEMENT MARKING LINES					
CODE	COLOR	LINE WIDTH	DESCRIPTION		
P2	WHITE	24"	STOPBAR		
P8	WHITE	4"	MINISKIP 2FT-6FT		
P18	YELLOW	4"	CENTER DOUBLE SOLID SKIP		
PA	WHITE	4"	EDGELINE		
PB	YELLOW	4"	EDGELINE		
PC	WHITE	4"	SKIP		
PD	WHITE	4"	MINISKIP 3FT-9FT		
PE	WHITE	4"	LANELINE		
PI	YELLOW	4"	CENTER DOUBLE SOLID/SOLID		
PN	WHITE	8"	GORELINE		
РО	WHITE	8"	DIAGONAL		
PP	YELLOW	8"	DIAGONAL		
PQ	WHITE	8"	CROSSWALK LINE		
PV	YELLOW	12"	DIAGONAL		

	PAINT PAVEMENT MARKING SYMBOLS & CHARACTERS					
	CODE	COLOR	DESCRIPTION			
4	QA	WHITE	LEFT TURN ARROW			
7	QB	WHITE	RIGHT TURN ARROW			
\uparrow	QC	WHITE	STRAIGHT ARROW			
4	QD	WHITE	LEFT/STRAIGHT ARROW			
 	QE	WHITE	RIGHT/STRAIGHT ARROW			
	QN	WHITE	24" YIELD LINE TRIANGLE SYMBOL			

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PAVEMENT MARKING LINES

DOUBLE YELLOW CENTER LINE — SKIP LINES ----- MINI-SKIP LINES ———— SOLID LINES EXISTING LINES (GRAY)

PAVEMENT MARKING SYMBOLS & CHARACTERS



PROPOSED SYMBOLS



EXISTING SYMBOLS (HOLLOW)



ALPHANUMERIC CHARACTERS

ROADWAY STANDARD DRAWINGS LEGEND TEMPORARY PAVEMENT MARKING LEGEND

GENERAL NOTES

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.

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE PLAN, STANDARD DETAILS, AND ROADWAY STANDARD DRAWINGS 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.

REFER TO THE NCDOT 2018 STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR ADDITIONAL REQUIREMENTS.

TEMPORARY LANE CLOSURE DAY AND TIME RESTRICTIONS

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

ROAD NAME DAY AND TIME RESTRICTIONS

US 19 6:00 A.M.- 7:00 P.M. SUNDAY THRU THURSDAY 6:00 A.M. FRIDAY THRU 7:00 P.M. SATURDAY

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

ROAD NAME

ALL ROADS

1) FOR UNEXPECTED OCCURRENCES THAT CREATE UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.

3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M.

4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.

5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.

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

8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS DAY.

TEMPORARY ROAD CLOSURE DAY AND TIME RESTRICTIONS

C) TEMPORARY ROAD CLOSURES ARE NOT ALLOWED EXCEPT AT THE SPECIFIC TIMES STATED IN THE PLANS OR DIRECTED BY THE ENGINEER.

HAULING DAY AND TIME RESTRICTIONS

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

ROAD NAME DAY AND TIME RESTRICTIONS

US 19 6:00 A.M. AND 7:00 P.M. MONDAY THRU FRIDAY

E) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

TEMPORARY LANE AND SHOULDER CLOSURE REQUIREMENTS

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

G) WHEN PERSONNEL OR EQUIPMENT ARE LOCATED 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, GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

H) WHEN PERSONNEL OR EQUIPMENT ARE LOCATED WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

I) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL, CLOSE THE LANE ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

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

TEMPORARY ROAD CLOSURE REQUIREMENTS

K) FURNISH AND INSTALL ALL TEMPORARY SIGNING AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED FOR TEMPORARY ROAD CLOSURES, INCLUDING TEMPORARY ROUTE SIGNS REQUIRED FOR OFF-SITE DETOURS.

L) COVER OR REMOVE ALL TEMPORARY ROAD CLOSURE SIGNS AND DEVICES WHEN A TEMPORARY ROAD CLOSURE IS NOT IN OPERATION. WHEN A DETOUR IS NOT IN OPERATION, COVER OR REMOVE ALL TEMPORARY DETOUR SIGNS.

M) WHEN CLOSING A ROADWAY, INSTALL/UNCOVER DETOUR AND ROAD CLOSURE SIGNS FIRST, AND INSTALL CLOSURE BARRICADES LAST. WHEN RE-OPENING A ROADWAY, REMOVE CLOSURE BARRICADES FIRST, THEN REMOVE/COVER SIGNS.

PAVEMENT DROP- OFF REQUIREMENTS

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

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

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

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER. THERE WILL BE NO DIRECT PAYMENT FOR BACKFILL AS THIS WORK WILL BE CONSIDERED INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

O) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

TRAFFIC CONTROL DEVICES

Q) ENSURE ALL NECESSARY TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, MARKINGS, ETC ARE IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

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

S) DURING PAVEMENT MILLING OPERATIONS PROVIDE "ROUGH ROAD" SIGNS (W8-8) IN ADVANCE OF A MILLED PAVEMENT AREA.

T) 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. SPACING OF CHANNELIZING DEVICES SHOWN IN THE PLANS MAY NOT BE TO SCALE. DUE TO HORIZONTAL/VERTICAL CURVATURE AND OTHER ITEMS THAT MAY OBSCURE THE CHANNELIZING DEVICES, IT IS THE CONTRACTORS RESPONSIBILITY TO ADJUST SPACING IN ORDER TO EFFECTIVELY ACCOMPLISH THE INTENDED CHANNELIZATION.

PAVEMENT MARKINGS AND MARKERS

U) 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.

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

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

X) OUTLINE MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO REMOVING OR INSTALLING AN ISLAND. PLACE DRUMS TO DELINEATE THESE AREAS.

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PEDESTRIAN REQUIREMENTS

Y) ALL CURB RAMPS SHALL BE INSTALLED AS SHOWN IN THE PAVEMENT MARKING PLAN. OR AS DIRECTED BY THE ENGINEER.

Z) WHEN CLOSING EXISTING OR NEW SIDEWALKS USE ADA COMPLIANT PEDESTRIAN CHANNELIZING DEVICES AND SIDEWALK CLOSED SIGNS R9-9.

AA) MAINTAIN EXISTING SIDEWALKS UNTIL PROPOSED SIDEWALKS CAN BE USED, IF FEASIBLE. IF CONSTRUCTION OPERATIONS DO NOT ALLOW SIDEWALKS TO STAY OPEN, MAINTAIN AFFECTED SIDEWALK(S) CLOSED.

MISCELLANEOUS

BB) USE LAW ENFORCEMENT TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND OR INTERSECTIONS AS SHOWN IN PLANS OR DIRECTED BY THE ENGINEER.

CC) ALL DIMENSIONS AND STATIONS IN THE TRANSPORTATION MANAGEMENT PLAN ARE APPROXIMATE. REFER TO ROADWAY AND STRUCTURE DESIGN PLANS FOR EXACT DIMENSIONS AND STATIONS.

TEMPORARY CLEAR ZONES

DD) AS A GENERAL GUIDELINE MAINTAIN A 15 FT. TEMPORARY WORK AREA CLEAR ZONE FOR THE DURATION OF THIS PROJECT ON ALL ROADWAYS. DUE TO VARYING FIELD CONDITIONS THIS GUIDELINE MAY BE MODIFIED AS FOLLOWS AND/OR AS DIRECTED BY THE ENGINEER:

WHEN LANE CLOSURES ARE NOT IN EFFECT AND WORK IS NOT BEHIND BARRIER OR GUARDRAIL THE FOLLOWING CLEAR ZONE REQUIREMENTS SHOULD BE MET:

-MOVE OBSTACLES SUCH AS STOCKPILES AND NON-ACTIVE EQUIPMENT AT LEAST 5' AWAY FROM THE BACK OF BARRIER. IN GENERAL, IF STORING MATERIALS OR EQUIPMENT BEHIND ANY TYPE OF BARRIER THE DEFLECTION OF THE BARRIER SHOULD BE ACCOUNTED FOR AND ITEMS SHOULD NOT BE STORED IN THAT AREA.

-EXCAVATIONS OR OTHER IMMOVABLE OBSTRUCTIONS SHALL BE SAFED UP USING METHODS SUCH AS BACK-FILLING, COVERS, DELINEATION, ETC. METHODS MUST BE ACCEPTABLE TO THE ENGINEER.

itransportation ManagementiPLAN SHEETSiR-5735 TMP 02 GENERAL NOTES.dgn enzie

<u>STEP 1:</u>

PRIOR TO ANY CONSTRUCTION OPERATIONS INSTALL WORK ZONE ADVANCE WARNING SIGNS ON PROJECT PER ROADWAY STANDARD DRAWING 1101.01 SHEETS 1, 2 AND 3 OF 3.

BEGIN THE FOLLOWING:

- DRAINAGE. USE TEMPORARY RIGHT/LEFT LANE CLOSURES FOR CROSS-PIPE CONSTRUCTION. REFER TO STD. 1101.02 SHT 3 OF 14 AND TMP-4F TO 4K.
- US 19 (L) OUTSIDE WIDENING AND CURB AND GUTTER LEFT SIDE STA. 27+80 TO 92+00
- US 19 (L) OUTSIDE WIDENING AND CURB AND GUTTER RIGHT SIDE STA. 27+80 TO 50+59 AND STA. 85+00 TO 90+96
- US 19 (L) MILLING AND PAVING. (NOTE: THE FIRST LAYER OF SURFACE COURSE IS TO BE PLACED IN PHASE II FOR THE TRAFFIC SHIFT.)
- SIDEWALKS / CURB RAMPS (MAINTAIN SIDEWALKS CLOSED AS DIRECTED BY THE ENGINEER.)
- REMOVE EXISTING RAISED ISLAND ON US 19 AT THE INTERSECTION OF HIWASSEE ST AND REPLACE WITH PAINTED ISLAND. (TMP-4E)
- TRAFFIC SIGNAL AT US 19/HIWASSEE ST. INTERSECTION.

COMPLETE THE FOLLOWING:

- WIDENING/CURB & GUTTER ALONG OLD RANGER RD (Y1A) AND HIWASSEE ST (Y5) (TMP-4E) USING TEMPORARY LANE CLOSURES PER STD. 1101.02 SHEETS 1, 2, OR 3 OF 14 AS APPLICABLE.
- Y3. CONSTRUCT THRU FINAL SURFACE COURSE, INSTALL TEMPORARY PAINT MARKINGS, AND OPEN TO TRAFFIC. (TMP-4B)

INTERMEDIATE CONTRACT TIME

COMPLETE PHASE I STEP 2 (2A-2C) WITHIN A TIME PERIOD OF EIGHT (8) CONSECUTIVE CALENDAR DAYS

STEP 2: CONSTRUCTION OF HIWASSEE ST./OLD RANGER RD.

2A: CLOSE HIWASSEE ST. AND OLD RANGER RD. (TMP-4L, 4M)

2B: REMOVE EXISTING CONCRETE ISLAND. COMPLETE MILLING, CONSTRUCT MONOLITHIC ISLANDS AND PAVE FINAL SURFACE COURSE ON HIWASSEE ST. AND OLD RANGER RD. UP TO STA. 37+95. (TMP-4M)

2C: INSTALL TEMPORARY PAINT MARKINGS AND OPEN HIWASSE ST. AND OLD RANGER RD. TO TRAFFIC. (TMP-4N)

PHASE | COMPLETION OF L RIGHT SIDE

COMPLETE THE FOLLOWING WORK BEGUN IN PHASE I:

- US 19 (L) OUTSIDE WIDENING AND CURB AND GUTTER LEFT SIDE STA. 27+80 TO 92+00
- US 19 (L) OUTSIDE WIDENING AND CURB AND GUTTER RIGHT SIDE STA. 27+80 TO 50+59 AND STA. 85+00 TO 90+96

STEP 1:

COMPLETE MILLING, PAVE THE FIRST OF TWO SURFACE LAYERS AND PLACE PAINT MARKINGS SHIFTING US 19 LANES TOWARDS THE LEFT SIDE.

FOR THE ABOVE OPERATIONS USE TEMPORARY LANE CLOSURES PER RDWY. STD. DWG. 1101.02 SHEETS 1, 2, OR 3 OF 14 AS APPLICABLE.

COMPLETE THE FOLLOWING EXCLUDING THE FINAL SURFACE LAYER:

STEP 2:

- US 19 (L) OUTSIDE WIDENING, CURB AND GUTTER RIGHT SIDE STA. 50+59 TO 85+00, AND MONOLITHIC ISLAND ON US 19 AT THE INTERSECTION OF HIWASSEE ST. (TMP-5A TO 5D)
- Y3, Y3A (TMP-5B)

COMPLETE THE FOLLOWING:

STEP 3:

- PAVE FINAL SURFACE COURSE ON PROJECT.
- INSTALL FINAL MARKINGS.
- TRAFFIC SIGNAL AT THE INTERSECTION OF US 19 AND HIWASSEE ST.

FOR THE ABOVE OPERATIONS USE TEMPORARY LANE CLOSURES PER RDWY. STD. DWG. 1101.02 SHEETS 1, 2, OR 3 OF 15 AS APPLICABLE.

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George Karageorg, M. KARAGE, 4/4/2019

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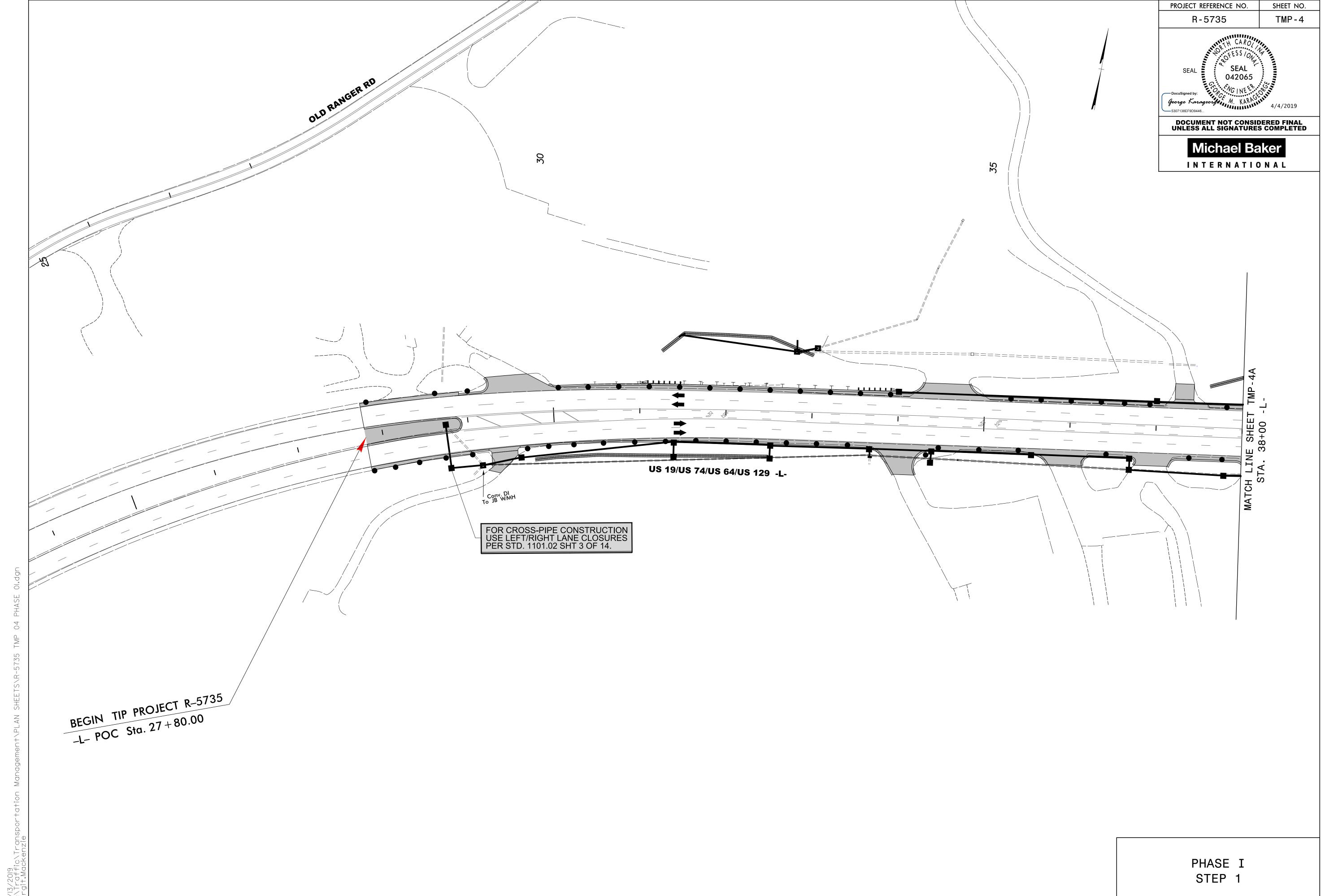
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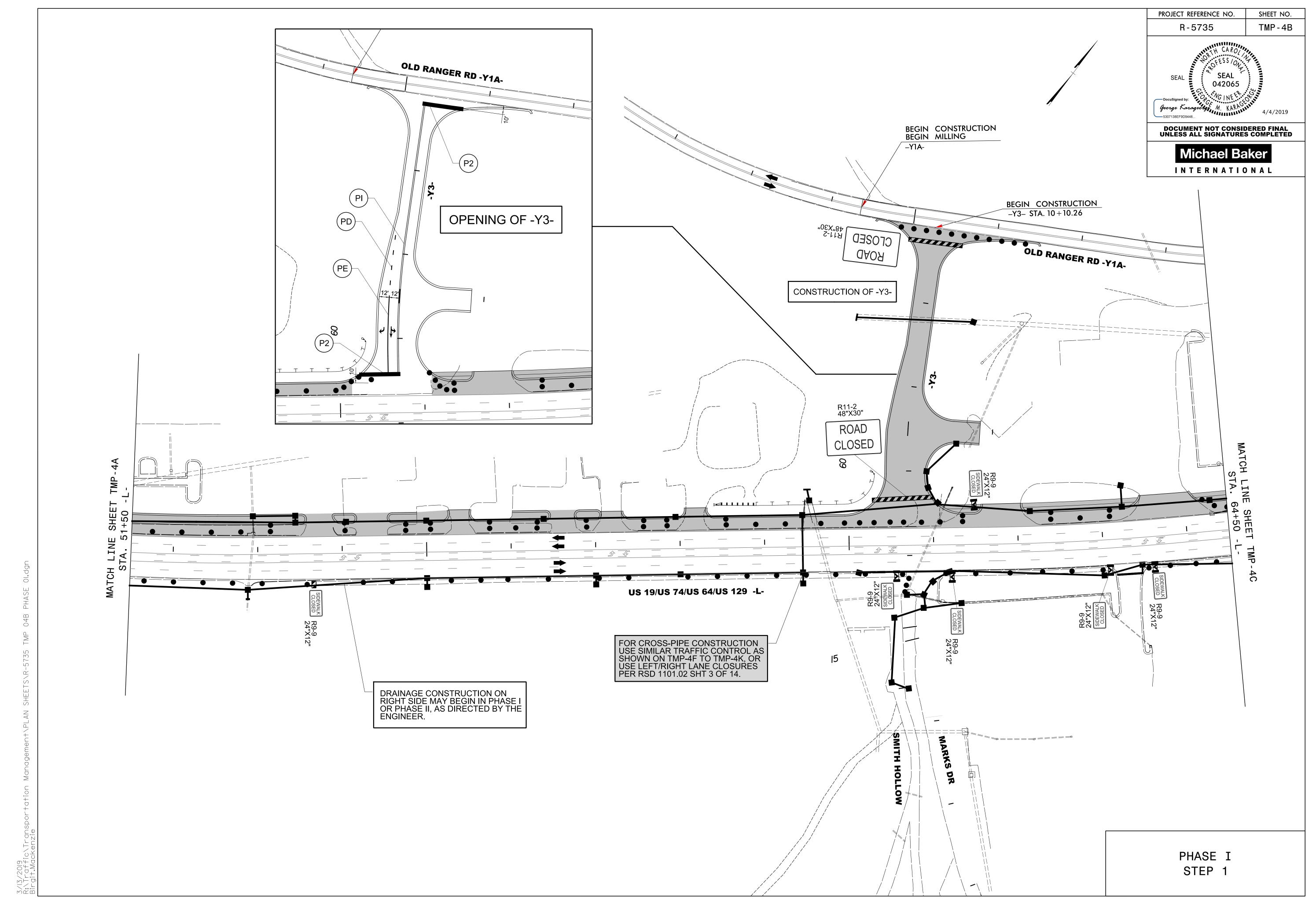
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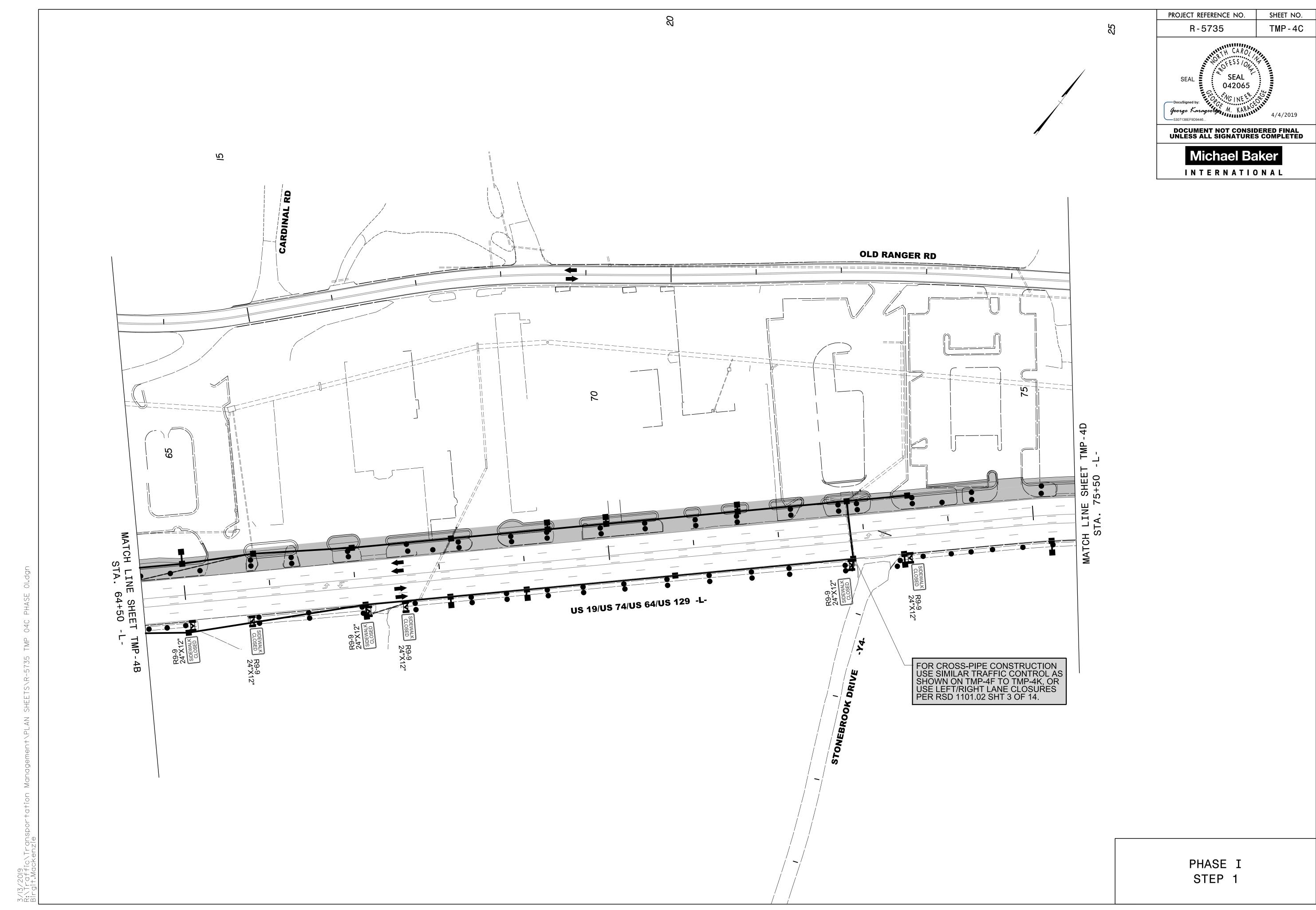
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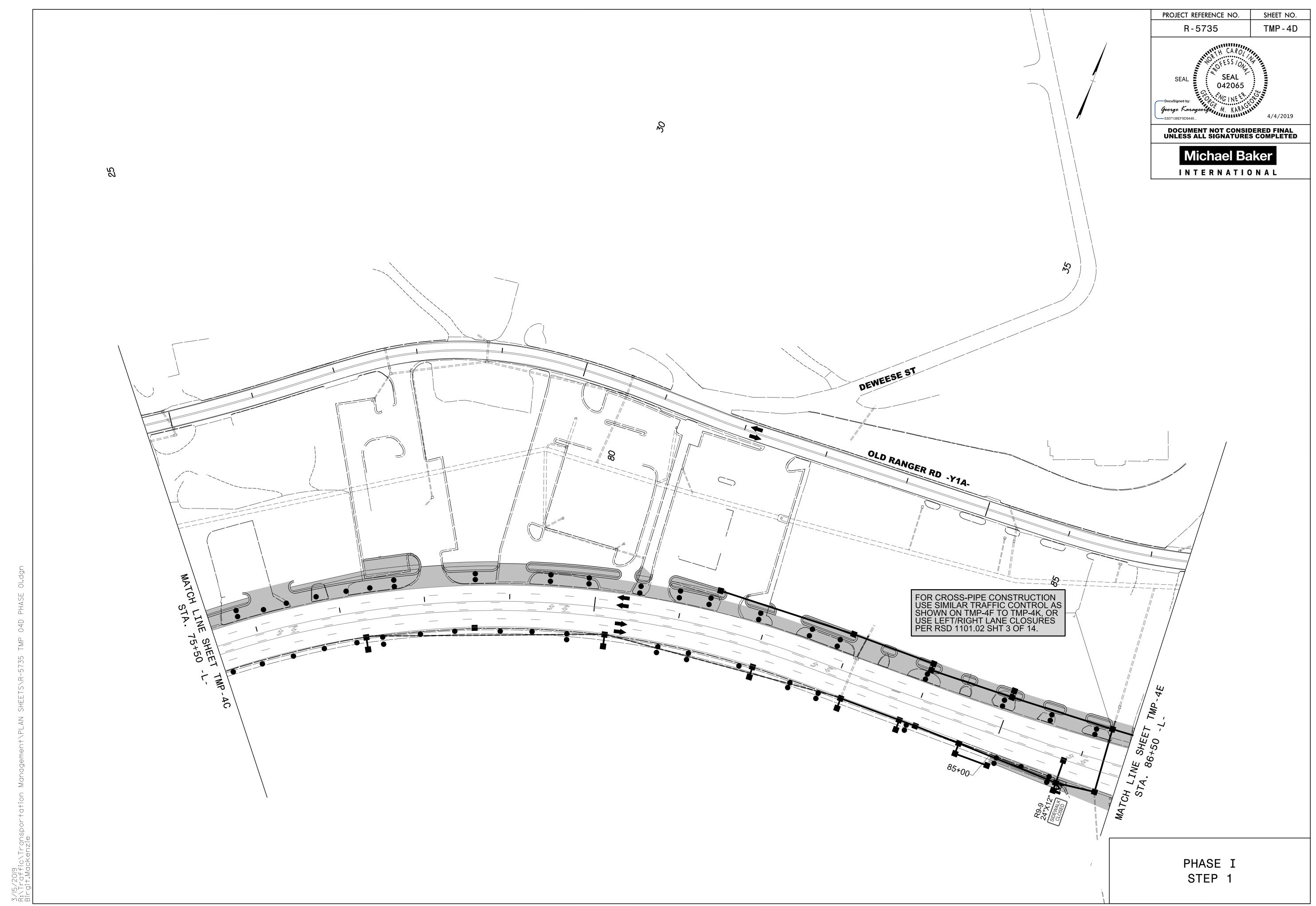
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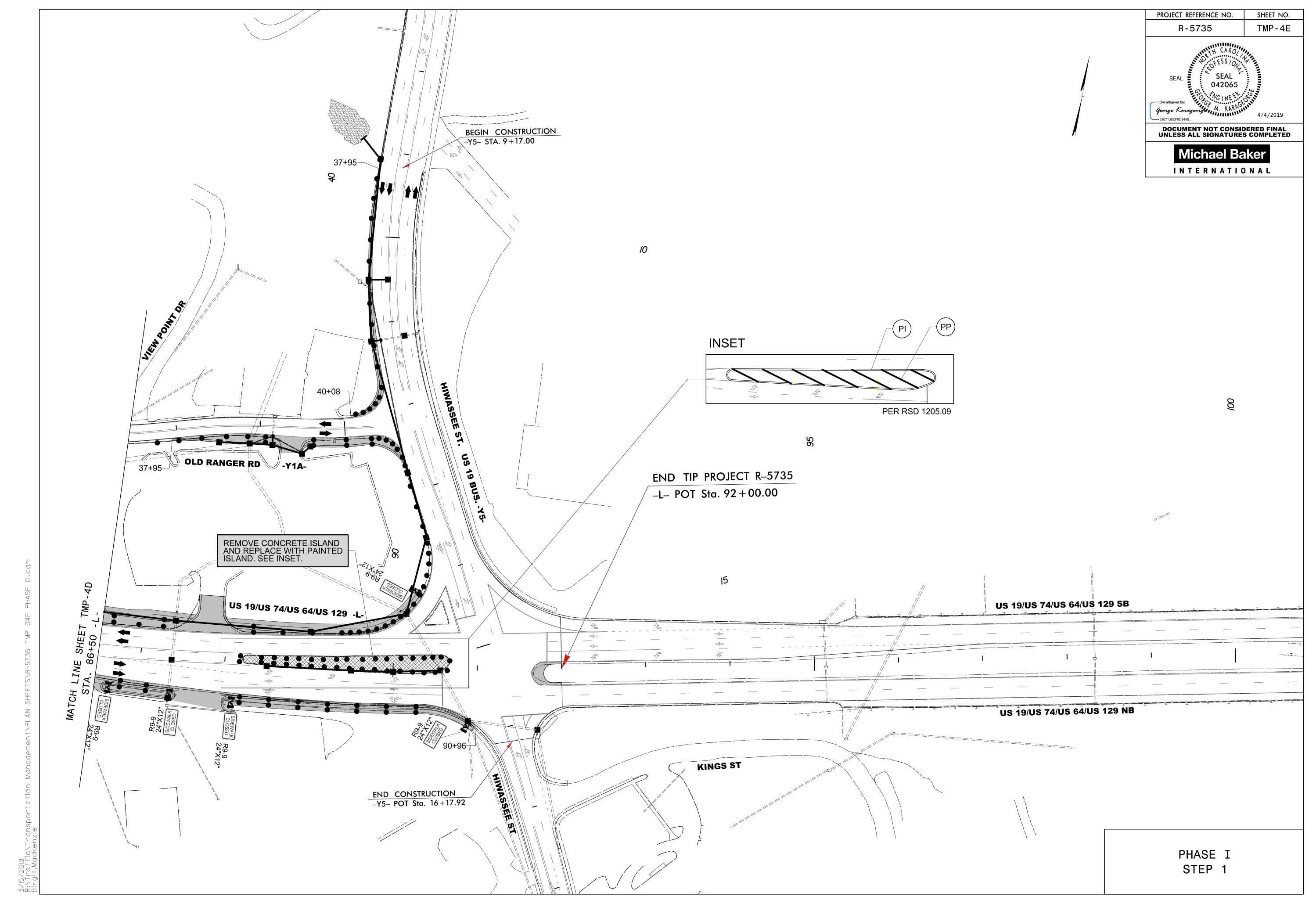


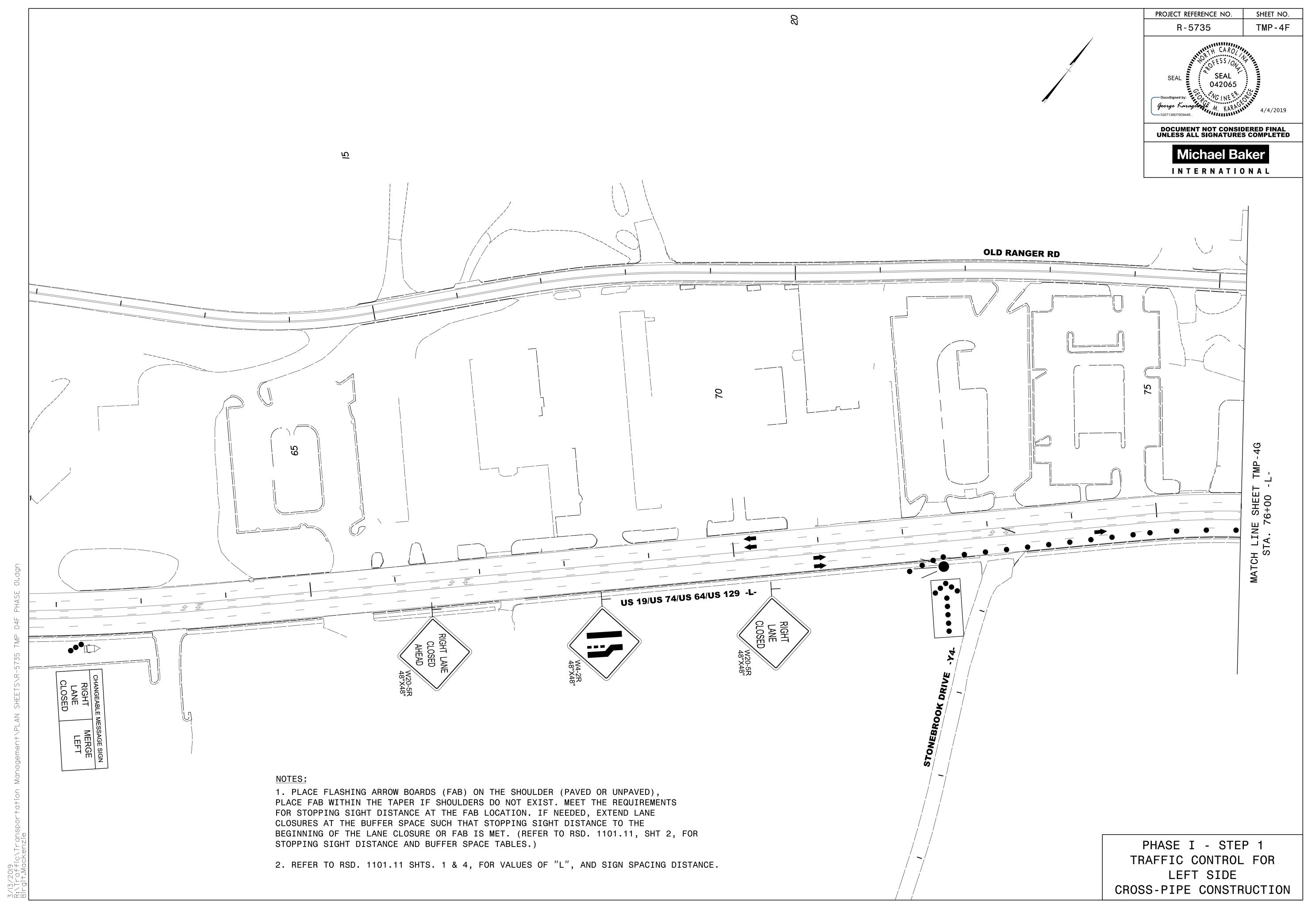


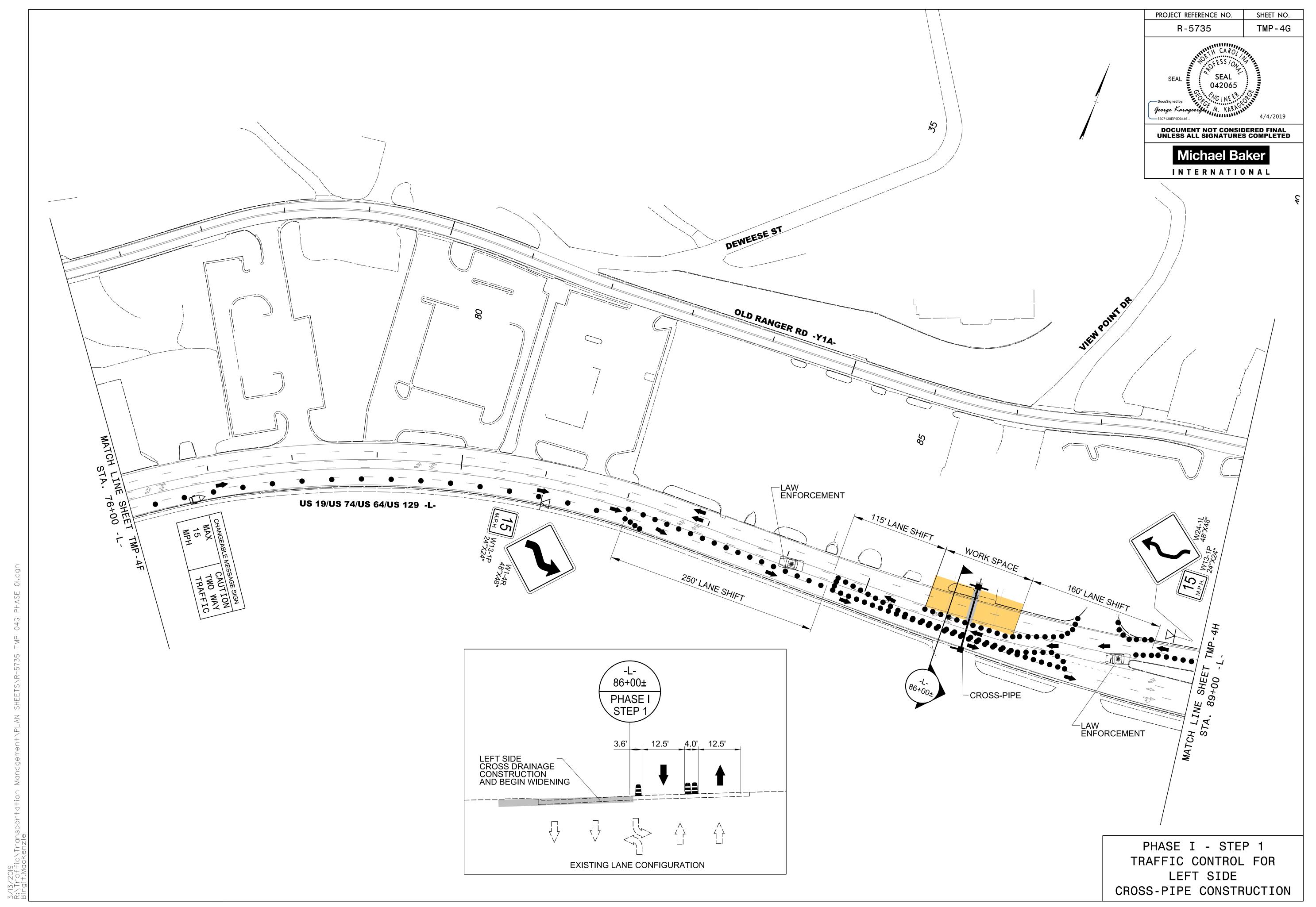


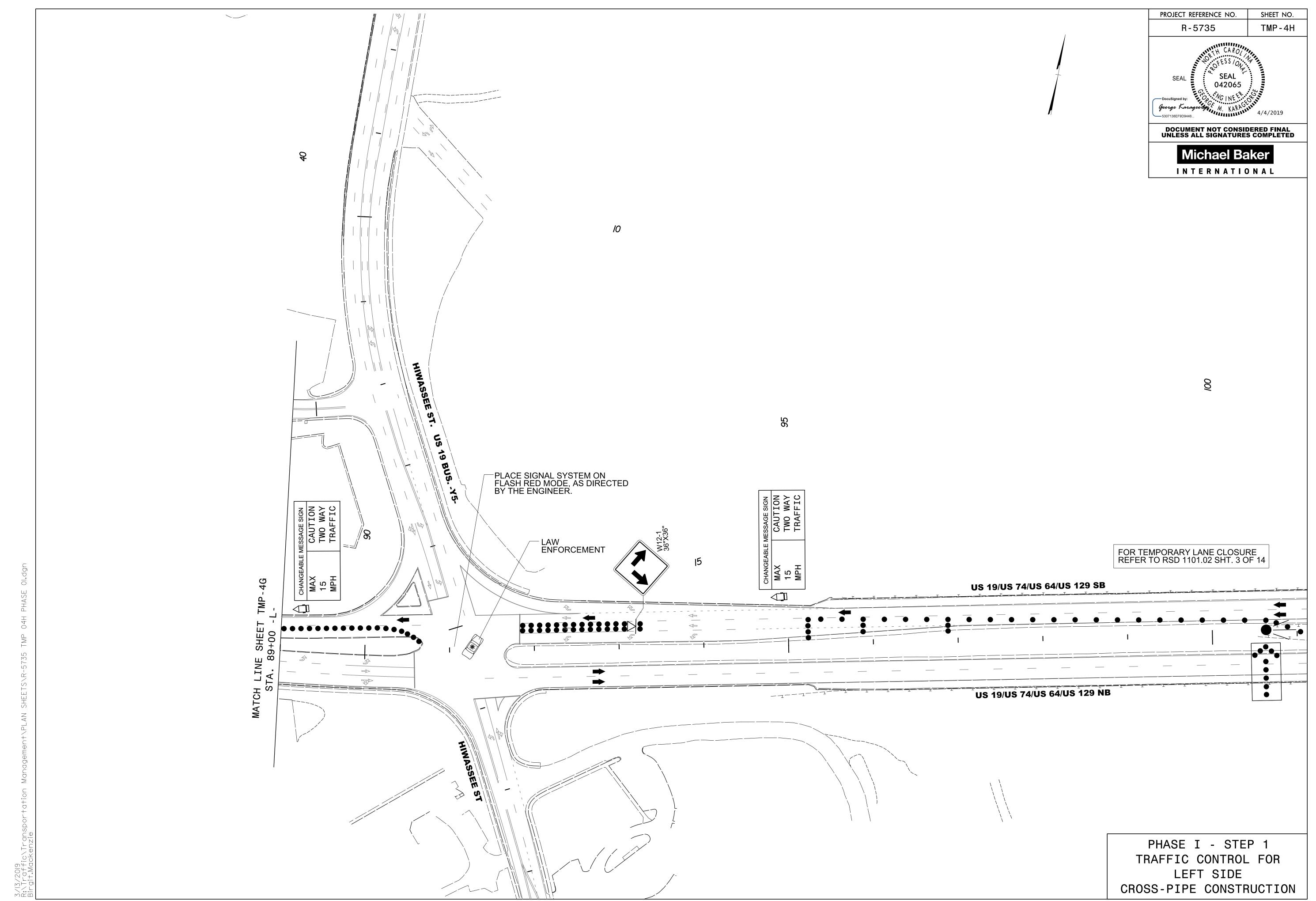




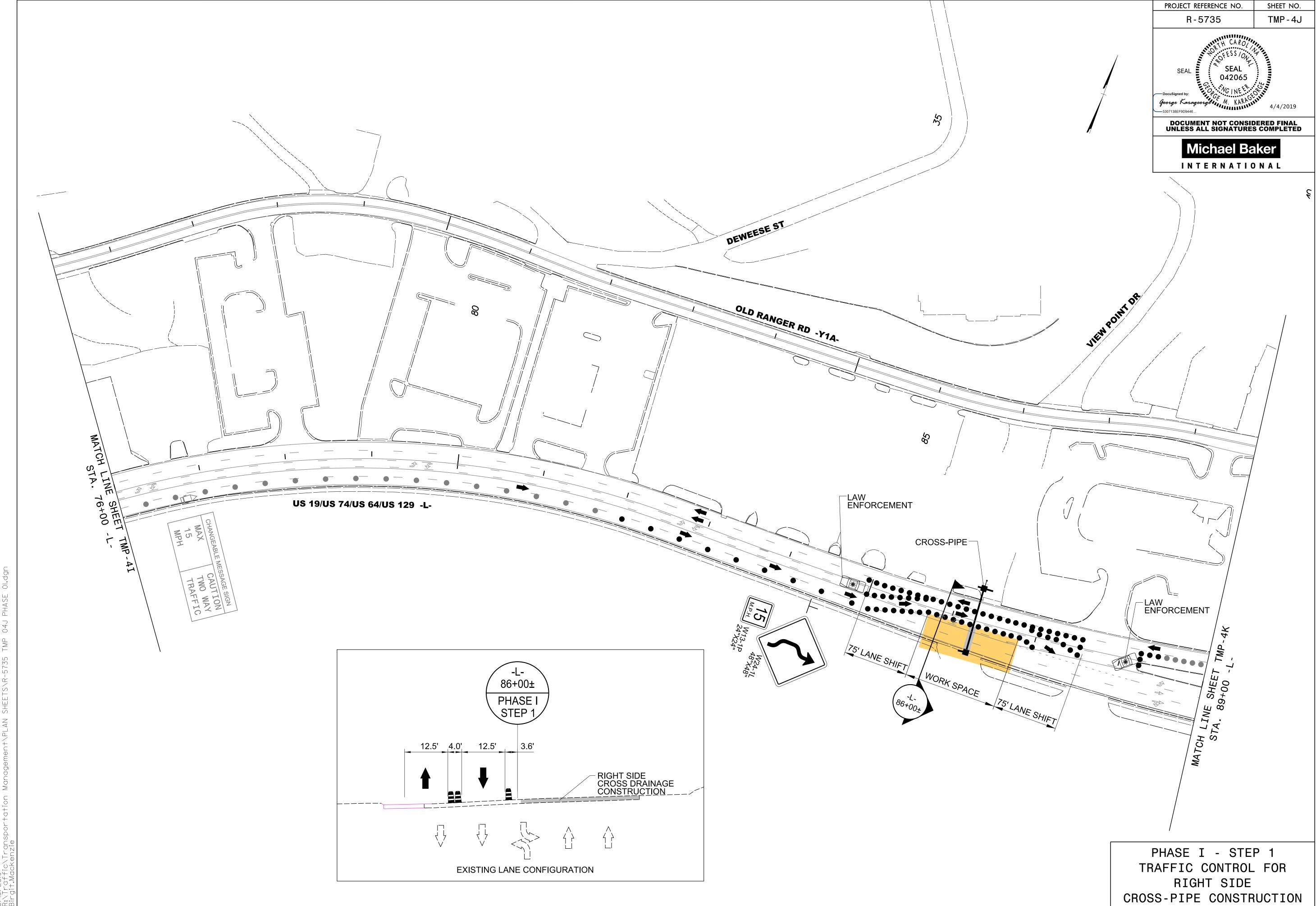












3/13/2019

