STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS



STATE PROJECT REFERENCE NO. X-0002B/U-2519E TCP-1

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

CUMBERLAND COUNTY

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "METRIC ROADWAY STANDARD DRAWINGS"-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 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
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - INTERCHANGES
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)
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 1267.02	FLEXIBLE DELINEATOR INSTALLATION
	FLEXIBLE DELINEATOR SPACING
1267.03	FLEXIBLE DELINEATOR-INTERCHANGES

INDEX OF SHEETS

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LEGEND

GENERAL

DIRECTION OF TRAFFIC FLOW

NORTH ARROW

PROPOSED PVMT. ----- EXIST. PVMT.

WORK AREA

ONGOING CONSTRUCTION

REMOVAL OF EXISTING PAVEMENT

GRADING ONLY

TRAFFIC CONTROL DEVICES

T TYPE I BARRICADE

TYPE III BARRICADE

CONE

FLASHING ARROW PANEL (TYPE C)

TYPE 'B' WARNING LIGHT

STATIONARY SIGN

PORTABLE SIGN

O STATIONARY OR PORTABLE SIGN

WARNING FLAGS

- CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

POLICE

FLAGGER

PAVEMENT MARKINGS

CRYSTAL/CRYSTAL PAVEMENT MARKER

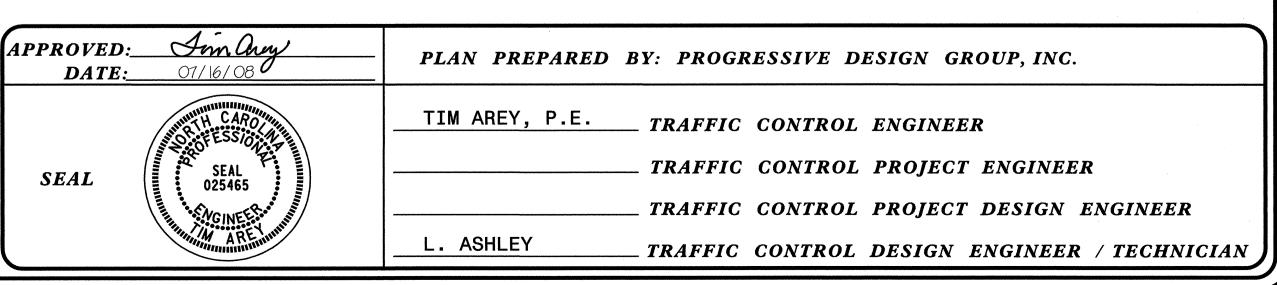
YELLOW/YELLOW PAVEMENT MARKER

CRYSTAL/RED PAVEMENT MARKER

PAVEMENT MARKING SYMBOLS

N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION SECTION REVIEW AND CONTACT PERSONNEL J. STUART BOURNE, P.E. _ TRAFFIC CONTROL ENGINEER J. STEVE KITE, P.E. TRAFFIC CONTROL PROJECT ENGINEER DON A. PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER TRAFFIC CONTROL DESIGN ENGINEER TRAFFIC CONTROL DESIGN TECHNICIAN





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

-Y2- BRAGG BLVD.

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

ROAD NAME

DAY AND TIME RESTRICTIONS

- -Y1- MURCHISON ROAD (NORTHBOUND) 7:00am-9:00am MONDAY-FRIDAY -Y1- MURCHISON ROAD (SOUTHBOUND) 3:00pm-6:00pm MONDAY-FRIDAY
 - 6:00am-8:00pm MONDAY-SUNDAY
- B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL **EVENTS AS FOLLOWS:**

ROAD NAME

-Y1- MURCHISON ROAD AND -Y2- BRAGG BLVD.

HOLIDAY

- 1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 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 TO 8:00 P.M. TUESDAY.
- 5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A 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

- 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 TO 8:00 P.M. MONDAY.
- 8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 8:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- 9. FOR SPRING FEST AND OCTOBER FEST ON FORT BRAGG, BETWEEN THE HOURS OF 6:00 A.M. TWO DAYS PRIOR TO THE BEGINNING OF THE EVENT AND 8:00 P.M.THE FOLLOWING DAY AFTER THE END OF THE EVENT.
- DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- 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.
- 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.
- 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.

PROJECT NOTES

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.

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

PAVEMENT EDGE DROP OFF REQUIREMENTS

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.

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

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

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 12m FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) PROVIDE PERMANENT SIGNING.
- PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- O) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC BARRIER

Q) 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.



PROJ. REFERENCE NO. SHEET NO. X-0002B/U-2519E TCP-2

MARKER

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

- S) SPACE CHANNELIZING DEVICES IN WORK AREAS EQUAL IN METERS TO 2/3rds THE POSTED SPEED LIMIT (MPH), EXCEPT 3m ON-CENTER IN RADII, AND 1m OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- T) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- U) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES SKINNY DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 150m CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

ROAD NAME

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

-Y1- MURCHISON ROAD	THERMOPLASTIC	SNOWPLOWABLE RAISED
-Y2- BRAGG BLVD.	THERMOPLASTIC	PERMANENT RAISED
ALL OTHER ROADS	PAINT	NONE
ALL BRIDGE DECKS	POLYUREA	SNOWPLOWABLE RAISED

MARKING

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

ROAD NAME	MARKING	MARKER
ALL	PAINT	TEMPORARY RAISED
ALL ROTOGES	TEMPORARY TAPE	TEMPORARY RAISED

- X) 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.
- 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
- AA) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- BB) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

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

03/09

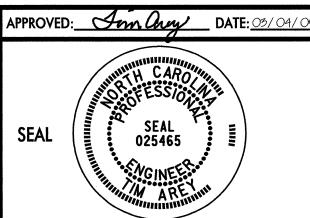
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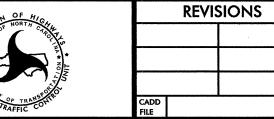
DESIGN BY:

REVIEWED BY: TMA





PROJECT NOTES



PROJ. REFERENCE NO. SHEET NO.

U-2519E
TCP-2A

TEMPORARY SHORING NOTES

TEMPORARY SHORING NO. 1

FOR TEMPORARY SHORING, SEE TEMPORARY SHORING SPECIAL PROVISION.

DO NOT USE STANDARD SHORING FROM STATION 13+75 -Y2- TO STATION 14+45 -Y2-, 20 METERS LEFT.

WHEN USING CONTRACTOR DESIGNED SHORING FROM STATION 13+75 -Y2- TO STATION 14+45 -Y2-, 20 METERS LEFT, USE THE FOLLOWING SOIL PARAMETERS:

UNIT WEIGHT OF SOIL ABOVE WATER TABLE, γ = 120 PCF UNIT WEIGHT OF SOIL BELOW WATER TABLE, γ = 60 PCF FRICTION ANGLE, ϕ = 30 DEGREES COHESION, c = 0 PSF

FOR CONTRACTOR DESIGNED SHORING, SURVEY THE SHORING LOCATION TO DETERMINE EXISTING ELEVATIONS AND ACTUAL DESIGN HEIGHTS BEFORE BEGINNING DESIGN.

FOR PORTABLE CONCRETE BARRIERS ABOVE AND BEHIND TEMPORARY SHORING, USE AN NCDOT PORTABLE CONCRETE BARRIER (UNANCHORED OR ANCHORED) OR AN OREGON TALL F-SHAPE CONCRETE BARRIER IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.

IT MAY BE PREFERRED OR NECESSARY TO ANCHOR TEMPORARY SHORING FROM STATION 14+10 -Y2- TO STATION 14+30 -Y2-, 20 METERS LEFT. FOR ANCHORED TEMPORARY SHORING, SEE ANCHORED TEMPORARY SHORING SPECIAL PROVISION.

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TEMPORARY SHORING NOTES

NONE

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DESIGN BY:

REVIEWED BY:

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dot/dtsrootUNproj/tipprojects-uNuzsiyeNtratticNtratticcontroiNtcpNu-25 varker AT WZTC244746 -L- (FROM STA. 39+40+/- TO STA. 83+40+/-)

AREA 2: INCLUDES THE MURCHISON ROAD VICINITY: -Y1-, -Y2- (SMITH LAKE ROAD), -RPCDR-, -CDR-, FLYOVER, -SPURB-, -RPB-, -RPC-, -LPB-, AND -LPC-.

PHASE I

AREA 1: NC 24 (BRAGG BLVD.), -L-, AND VARIOUS -Y- LINES

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADWAYS WITHIN AREA 1 AS SHOWN ON SHEETS TCP-34 THRU TCP-37 ACCORDING TO THE GUIDELINES SET FORTH IN GENERAL NOTE L.

INTERMEDIATE CONTRACT TIME

THE CONTRACTOR SHALL COMPLETE THE CONSTRUCTION WORK REQUIRED FOR -Y2- (BRAGG BLVD.) AS DESCRIBED IN PHASE I, AREA 1; PHASE II, AREA 1; AND PHASE III, AREA 1. THE DATE OF AVAILABILITY FOR THIS INTERMEDIATE CONTRACT TIME WILL BE THE DATE THE CONTRACTOR ELECTS TO BEGIN THE WORK REQIRED FOR -Y2- (BRAGG BLVD.) AS DESCRIBED IN PHASE I, AREA 1. THE COMPLETION DATE FOR THIS INTERMEDIATE CONTRACT TIME WILL BE DATE WHICH IS 365 CONSECUTIVE CALENDAR DAYS AFTER AND INCLUDING THE DATE THE CONTRACTOR BEGINS THIS WORK.

STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9 INSTALL PORTABLE CONCRETE BARRIER ALONG THE NORTHBOUND OUTSIDE SHOULDER OF -Y2- FROM STA. 12+00+/- TO STA. 15+00+/- AND FROM STA. 16+28+/- TO STA. 18+70+/- AS SHOWN ON SHEETS TCP-10 AND TCP-11. PLACE TRAFFIC BACK INTO THE ORIGINAL PATTERN BY THE END OF EACH CONSTRUCTION DAY.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9 INSTALL PORTABLE CONCRETE BARRIER ALONG THE SOUTHBOUND OUTSIDE SHOULDER OF -Y2- FROM STA. 15+00+/- TO STA. 16+82+/- AS SHOWN ON SHEETS TCP-10 AND TCP-11. PLACE TRAFFIC BACK INTO THE ORIGINAL PATTERN BY THE END OF EACH CONSTRUCTION DAY.

- STEP 3: BEGIN CONSTRUCTION ON THE FOLLOWING AWAY FROM TRAFFIC AS SHOWN ON SHEETS TCP-4 THRU TCP-11:
 - -L-: FROM STA. 39+40+/- TO STA. 83+40+/-. NOTE THE ROADWAYS AND LOCATIONS WHERE GRADING ONLY IS REQUIRED AS SHOWN IN THE ROADWAY DESIGN PLANS AND ON SHEETS TCP-4, TCP-5, AND TCP-7.
 - -L-: BOTH BRIDGES AT STA. 58+00+/-.
 - -L-: FUTURE BRIDGE END BENTS ON BOTH SIDES OF -Y2-.
 - -L-: BOTH BRIDGES AT STA. 77+50+/-.
 -Y3-: FROM STA. 10+00+/- TO THE -Y2- INTERSECTION.
 - -Y4-: FROM STA. 10+00+/- TO THE -Y2- INTERSECTION.
 - -Y4-: FRUM SIA. IU+UU+/- IU IHE -Y2- INTERSECTION.
 - -RP1BD-: FROM STA. 39+40+/- TO -CDR- INCLUDING THE PROPOSED BRIDGE OVER -Y2-.
 - -COL2-: FROM STA. 39+40+/- TO -L- INCLUDING THE PROPOSED BRIDGE OVER -Y2-.
 - -TT7-: IN THE LOCATIONS SHOWN ON SHEETS TCP-4 THRU TCP-7 INCLUDING THE PROPOSED BRIDGE AT STA. 22+00+/-.
 - -COL1-: GRADING ONLY AS SHOWN ON SHEET TCP-4.
 - -RP2B-, -LP2B-, -RP2D-, AND -LP2D-: IN THE LOCATIONS SHOWN ON SHEET TCP-4.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9, BEGIN CONSTRUCTION ON THE PROPOSED -Y2- OUTSIDE WIDENING FROM STA. 6+70+/- -Y2-TO STA. 24+60+/- AS SHOWN ON SHEETS TCP-4, TCP-10, AND TCP-11. PLACE TRAFFIC BACK INTO THE ORIGINAL PATTERN BY THE END OF EACH CONSTRUCTION DAY.

INSTALL THE TRAFFIC CONTROL DEVICES FOR THE OFFSITE DETOUR ROUTE SHOWN ON SHEET TCP-34 AND UTILIZE THE DETOUR ROUTE FOR -Y2- (BRAGG BLVD) TRAFFIC DURING BRIDGE GIRDER HANGING OPERATIONS OVER -Y2- (BRAGG BLVD).

AREA 2: NC 210 (MURCHISON ROAD) AND VARIOUS -Y- LINES

- STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON ALL ROADWAYS WITHIN AREA 2 AS SHOWN ON SHEETS TCP-34 THRU TCP-37 ACCORDING TO THE GUIDELINES SET FORTH IN GENERAL NOTE L.
- STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9 INSTALL PORTABLE CONCRETE BARRIER ALONG THE NORTHBOUND OUTSIDE SHOULDER OF -Y1- FROM STA. 29+00+/- TO STA. 31+50+/- AND ALONG THE SOUTHBOUND OUTSIDE SHOULDER FROM STA. 28+80+/- TO STA. 31+45+/- AS SHOWN ON SHEET TCP-12. PLACE TRAFFIC BACK INTO THE ORIGINAL PATTERN BY THE END OF EACH CONSTRUCTION DAY.

PHASING



X-0002B/U-2519E TCP-3

- STEP 3: BEGIN CONSTRUCTION ON THE FOLLOWING AWAY FROM TRAFFIC AS SHOWN ON SHEETS TCP-5 THRU TCP-7:
 - -RPCDR-: FROM -CDR- TO -FLYOVER-.
 - -CDR-: FROM -RP1BD- TO STA. 71+85+/- INCLUDING THE PROPOSED -CDR-BRIDGE AT STA. 56+00+/-, STA. 58+00+/-, AND STA. 66+00+/-.
 - -FLYOVER-: FROM STA. 10+00+/- TO STA. 24+80+/- AND FROM STA. 29+28+/- TO STA. 31+83+/- INCLUDING THE PROPOSED -FLYOVER- BRIDGE AT STA.
 - -SPURB-: FROM STA. 11+93+/- TO STA. 18+10+/-.
 - -RPB-: FROM -Y1- TO -L-.

23+50+/-.

- -RPC-: FROM -Y1- TO -L-.
- -LPB-: FROM -Y1- TO -L-. -LPC-: FROM -Y1- TO -L-.
- -Y1-: FROM STA. 20+00+/- NORTHBOUND TO STA. 30+00+/- NORTHBOUND AND FROM STA. 15+87+/- SOUTHBOUND TO STA. 35+09+/- SOUTHBOUND. UTILIZE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9 AS REQUIRED BY
 - THE 'LANE AND SHOULDER CLOSURE REQUIREMENTS' SECTION OF THE GENERAL NOTES LISTED ON SHEET TCP-2. PLACE TRAFFIC BACK INTO THE ORIGINAL PATTERN BY THE END OF EACH CONSTRUCTION DAY.
- -Y2-: FROM STA. 10+09+/- TO STA. 34+98+/-. MAINTAIN TRAFFIC TO THE RECREATIONAL FACILTY BY PLACING INCIDENTAL STONE BY THE END OF EACH DAY'S CONSTRUCTION.

PHASE II

- AREA 1: NC 24 (BRAGG BLVD.), -L-, AND VARIOUS -Y- LINES
- STEP 1: COMPLETE CONSTRUCTION ON THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:
 - -Y2-: OUTSIDE WIDENING FROM STA. 6+70+/- TO STA. 24+60+/-.
 - -Y3-: FROM STA. 10+00+/- TO THE -Y2- INTERSECTION.
 - -Y4-: FROM STA. 10+00+/- TO THE -Y2- INTERSECTION.
- COMPLETE THE WORK REQUIRED IN PHASE II, AREA 1, STEP 2 BY WORKING IN A CONTINUOUS MANNER:
- STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 3 OF 9, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON PROPOSED -Y2-, -Y3-, AND -Y4- TO THE PATTERN SHOWN ON SHEETS TCP-13 THRU TCP-18 AND SHIFT -Y2-, -Y3-. AND -Y4- TRAFFIC TO THE PATTERN SHOWN ON SHEETS TCP-13 THRU TCP-18.
- STEP 3: BEGIN CONSTRUCTION ON THE PROPOSED -Y2- MEDIAN UP THROUGH ONE LAYER OF SURFACE COURSE FROM STA. 7+70+/- -Y2- TO STA. 24+60+/- -Y2- AS SHOWN ON SHEETS TCP-13 THRU TCP-19.
 - CONTINUE CONSTRUCTION ON ALL REMAINING ITEMS STARTED IN PHASE I.
- AREA 2: NC 210 (MURCHISON ROAD) AND VARIOUS -Y- LINES
- STEP 1: COMPLETE CONSTRUCTION ON -Y1- FROM STA. 20+00+/- NORTHBOUND TO STA. 30+00+/NORTHBOUND AND FROM STA. 15+87+/- SOUTHBOUND TO STA. 35+09+/- SOUTHBOUND UP STEP 2: COORDINATE PROPOSED ROADWAY OPENINGS WITH THE CONTRACTORS OF BOTH ADJACENT
 TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

 PROJECTS. USING ROADWAY STANDARD DRAWING NO. 1101.02, PLACE THE FINAL LAYER
- COMPLETE THE WORK REQUIRED IN PHASE II, AREA 2, STEP 2 BY WORKING IN A CONTINUOUS MANNER:
- STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 3 OF 9, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON PROPOSED -Y1- SOUTBOUND LANES FROM STA. 15+87+/- TO STA. 27+80+/- AS SHOWN ON SHEETS TCP-19 THRU TCP-24 AND SHIFT -Y1- SOUTHBOUND TRAFFIC TO THE PATTERN SHOWN ON SHEETS TCP-19 THRU TCP-24.
- STEP 3: CONSTRUCT PROPOSED -Y1- NORTHBOUND LANES FROM STA. 15+87+/- TO STA. 21+00+/- AS SHOWN ON SHEETS TCP-19 AND TCP-20. (SEE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9)
- COMPLETE THE WORK REQUIRED IN PHASE II, AREA 2, STEP 4 BY WORKING IN A CONTINUOUS MANNER:
- STEP 4: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 3 OF 9, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON PROPOSED -Y1- NORTBOUND LANES FROM STA. 15+87+/- TO STA. 35+10+/- AS SHOWN ON SHEETS TCP-25 THRU TCP-30 AND SHIFT -Y1- NORTHBOUND TRAFFIC TO THE PATTERN SHOWN ON SHEETS TCP-25 THRU TCP-30.

STEP 5: BEGIN CONSTRUCTION ON -FLYOVER- FROM STA. 24+80+/- TO STA. 29+28+/- AS SHOWN ON SHEETS TCP-27 AND TCP-28.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9 INSTALL PORTABLE CONCRETE BARRIER ALONG THE NORTHBOUND OUTSIDE SHOULDER OF -Y1- FROM STA. 29+20+/- TO STA. 30+60+/- AS SHOWN ON SHEET TCP-29. PLACE TRAFFIC BACK INTO THE ORIGINAL PATTERN BY THE END OF EACH CONSTRUCTION DAY.

USING ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 9, CONSTRUCT PROPOSED -Y1- MEDIAN FROM STA. 31+55+/- TO STA. 35+10+/- AS SHOWN ON SHEETS TCP-29 AND TCP-30. PLACE TRAFFIC BACK INTO THE ORIGINAL PATTERN BY THE END OF EACH CONSTRUCTION DAY.

INSTALL THE TRAFFIC CONTROL DEVICES FOR THE OFFSITE DETOUR ROUTE SHOWN ON SHEET TCP-35 AND UTILIZE THE DETOUR ROUTE FOR -Y1- TRAFFIC DURING BRIDGE GIRDER HANGING OPERATIONS OVER -Y1-.

PHASE III

- AREA 1: NC 24 (BRAGG BLVD.), -L-, AND VARIOUS -Y- LINES
- STEP 1: COMPLETE CONSTRUCTION ON THE PROPOSED -Y2- MEDIAN UP THROUGH ONE LAYER OF SURFACE COURSE FROM STA. 7+70+/- -Y2- TO STA. 24+60+/- -Y2-.
- COMPLETE THE WORK REQUIRED IN PHASE III, AREA 1, STEP 2 BY WORKING IN A CONTINUOUS MANNER:
- STEP 2: USING ROADWAY STANDARD DRAWING NO. 1101.02 SHEET 3 OF 9, INSTALL TEMPORARY PAINT PAVEMENT MARKINGS AND MARKERS ON PROPOSED -Y2- NORTBOUND LANES FROM STA. 20+12+/- TO STA. 24+60+/- AS SHOWN ON SHEETS TCP-31 AND TCP-32 AND SHIFT -Y2- NORTHBOUND TRAFFIC TO THE PATTERN SHOWN ON SHEETS TCP-31 AND TCP-32.
- STEP 3: CONSTRUCT THE REMAINING SECTION OF NORTHBOUND -Y2- OUTSIDE WIDENING FROM STA. 24+60+/- TO THE -Y4- INTERSECTION AS SHOWN ON SHEET TCP-32.
 - CONSTRUCT PROPOSED -Y5- UP THROUGH ONE LAYER OF SURFACE COURSE AS SHOWN ON SHEET TCP-33.

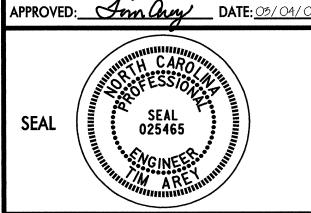
PHASE IV

AREA 1 AND AREA 2

- STEP 1: COMPLETE CONSTRUCTION ON ALL BRIDGES AND ROADWAYS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
 - INSTALL THE PROPOSED TRAFFIC SIGNALS AT THE -Y2-/-RP1BD- INTERSECTION, THE -Y2-/-RP2D- INTERSECTION, AND THE -Y1-/-RPB- INTERSECTION.
- PROJECTS. USING ROADWAY OPENINGS WITH THE CONTRACTORS OF BOTH ADJACENT PROJECTS. USING ROADWAY STANDARD DRAWING NO. 1101.02, PLACE THE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND MARKERS ON ALL ROADWAYS AS SHOWN ON SHEETS PM-1 THRU PM-30. ACTIVATE THE PROPOSED TRAFFIC SIGNALS AT THE -Y2-/-RP1BD- INTERSECTION, THE -Y2-/-RP2D- INTERSECTION, AND THE -Y1-/-RPB- INTERSECTION AND OPEN ALL ROADWAYS TO THE FINAL TRAFFIC PATTERN.



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PHASING

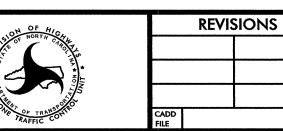
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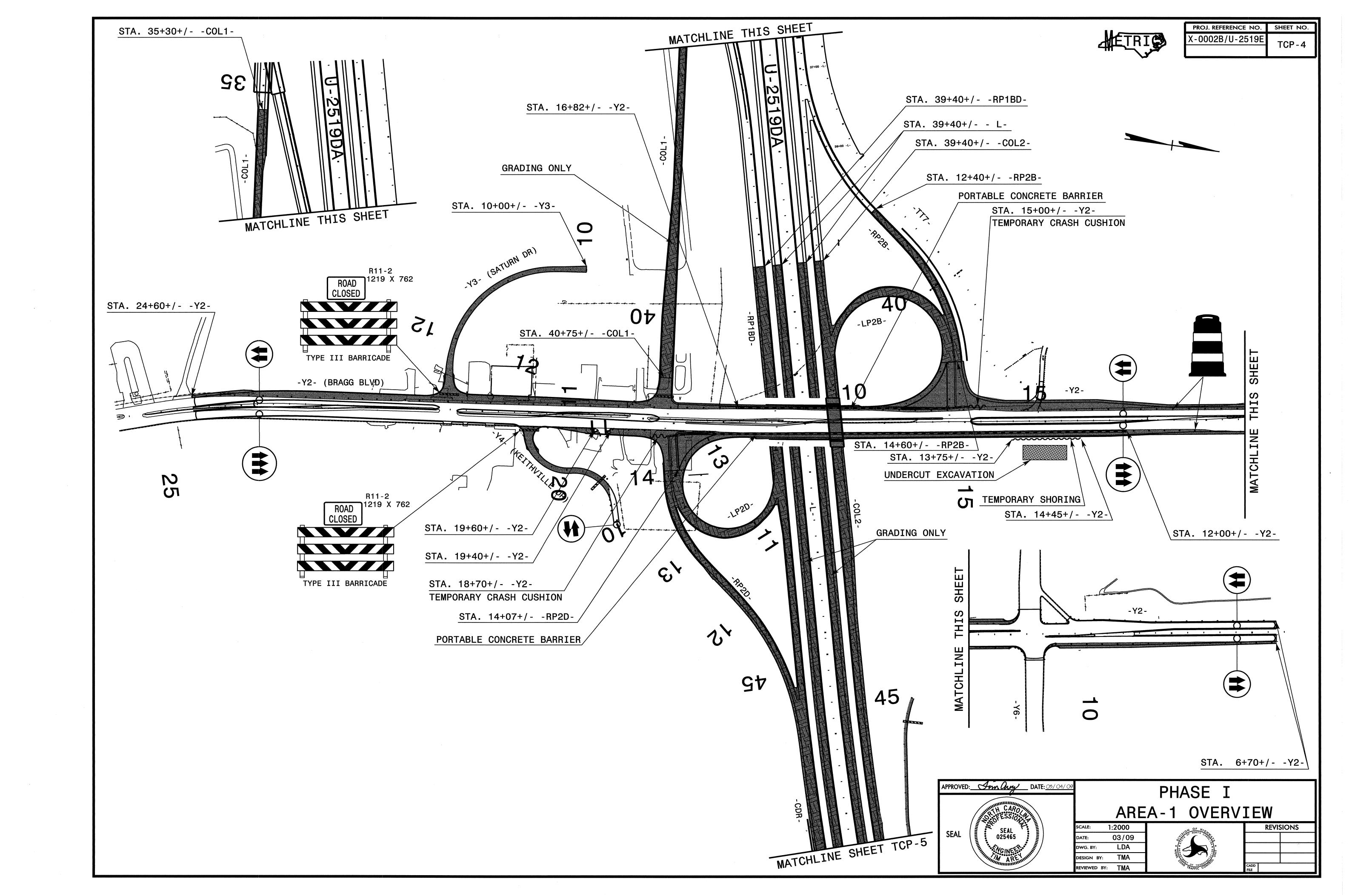
DATE: 03/09

DWG. BY: LDA

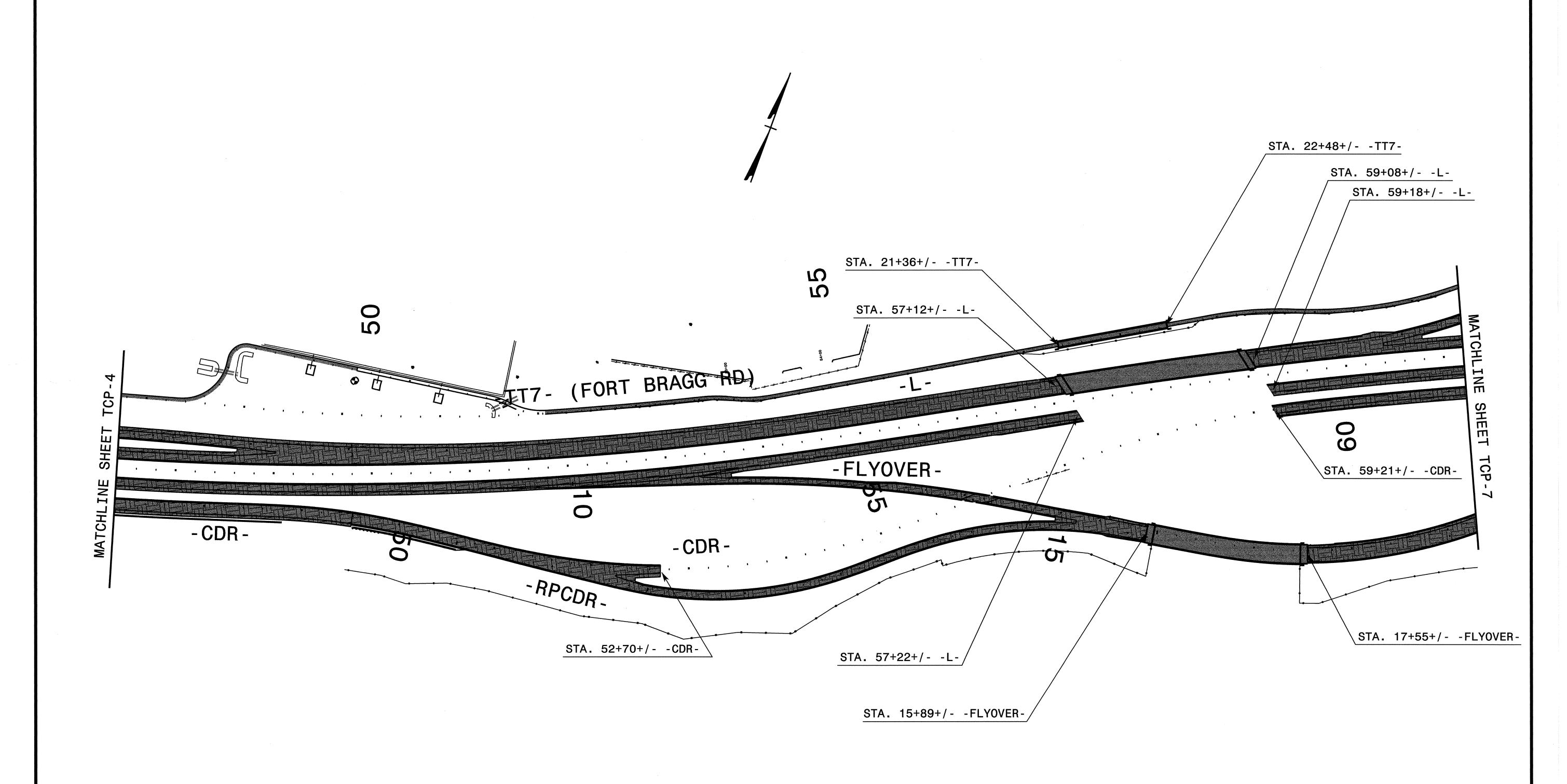
DESIGN BY: TMA

REVIEWED BY: TMA

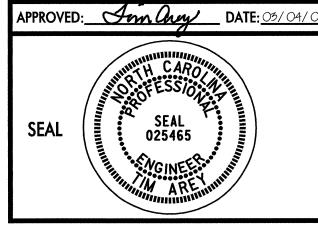












PHASE I AREA-1 OVERVIEW

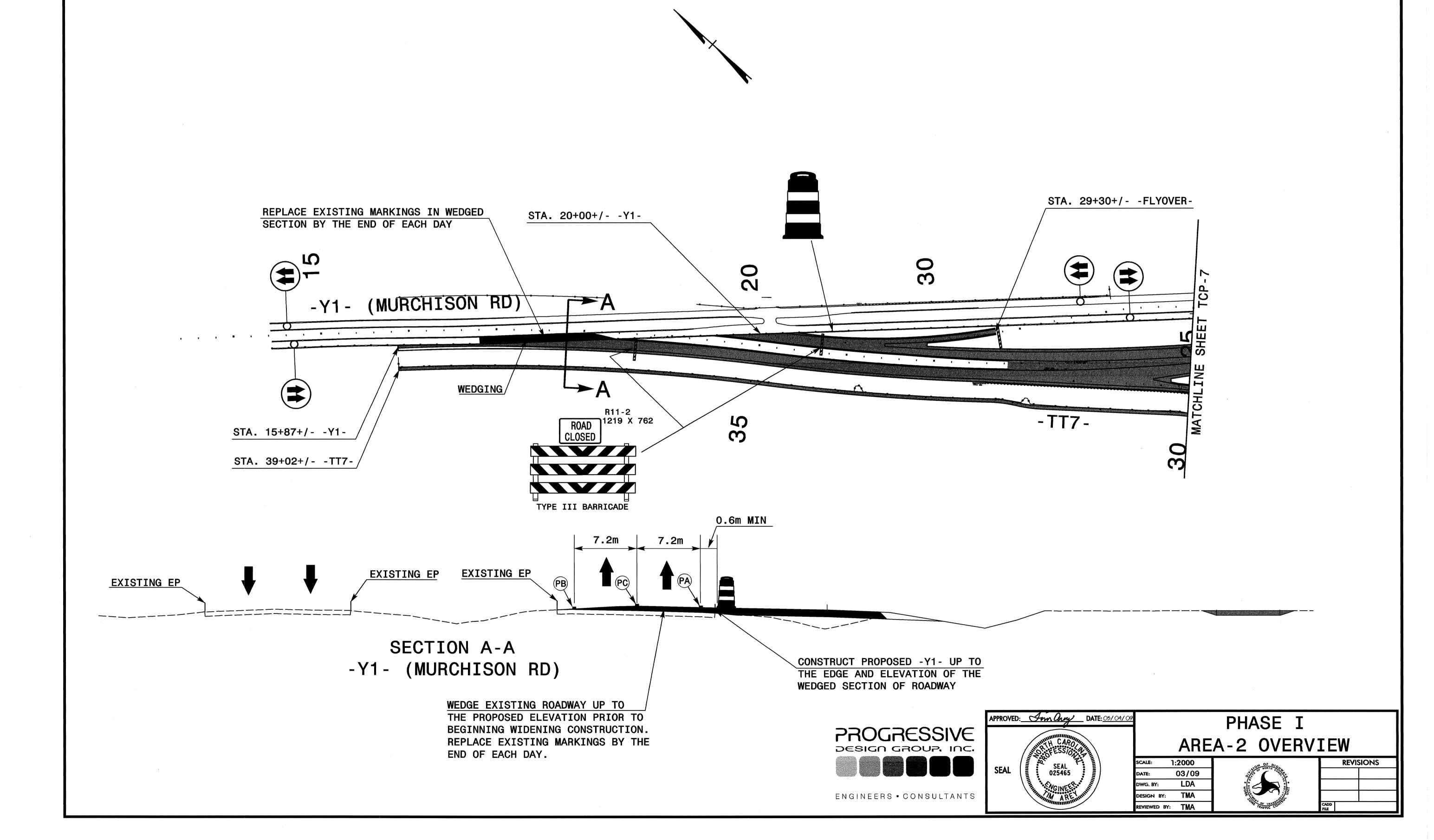
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ATE:	03/09	
WG. BY:	LDA	
SIGN BY:	TMA	
VIEWED BY:	TMA	



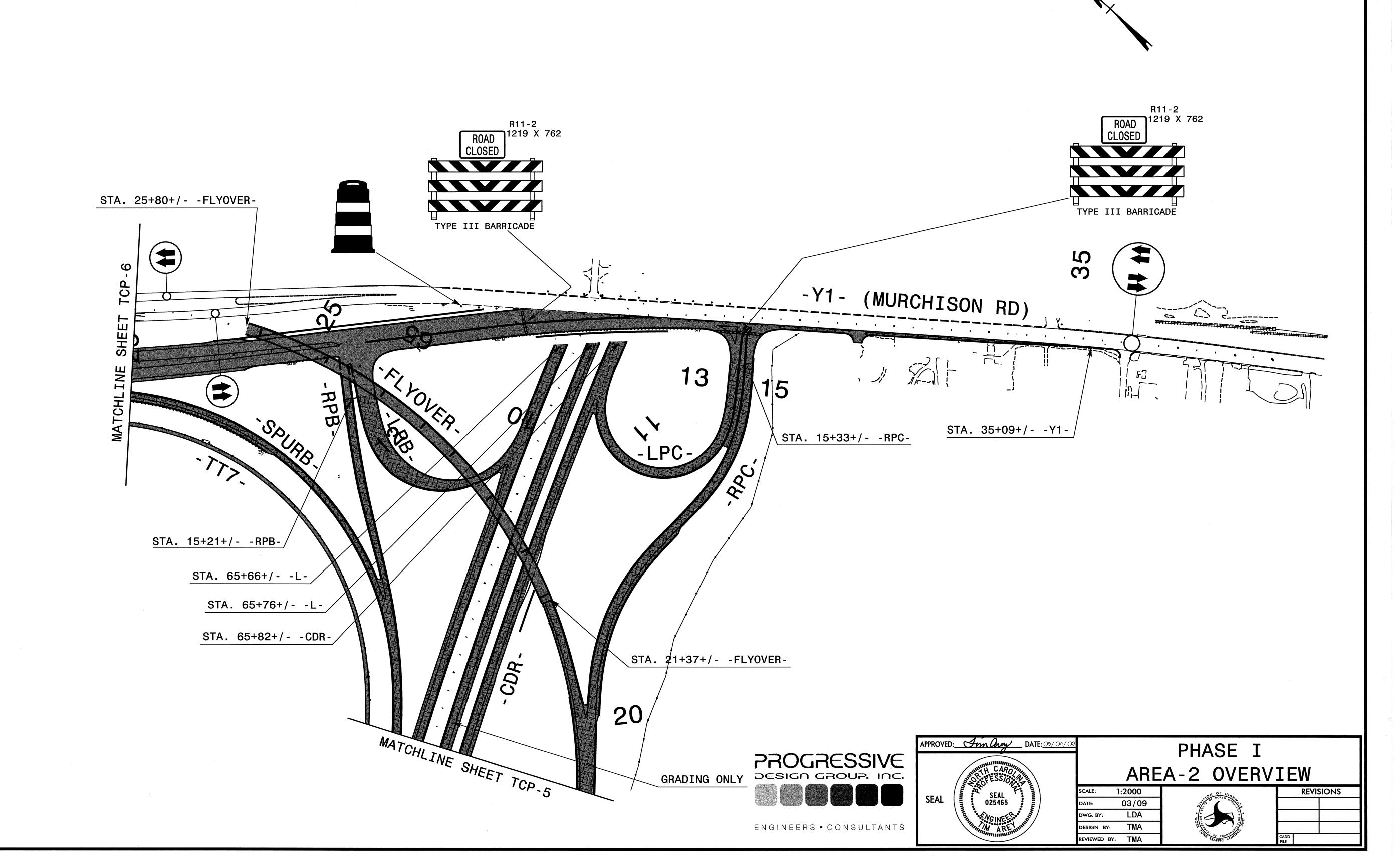
REVISIONS

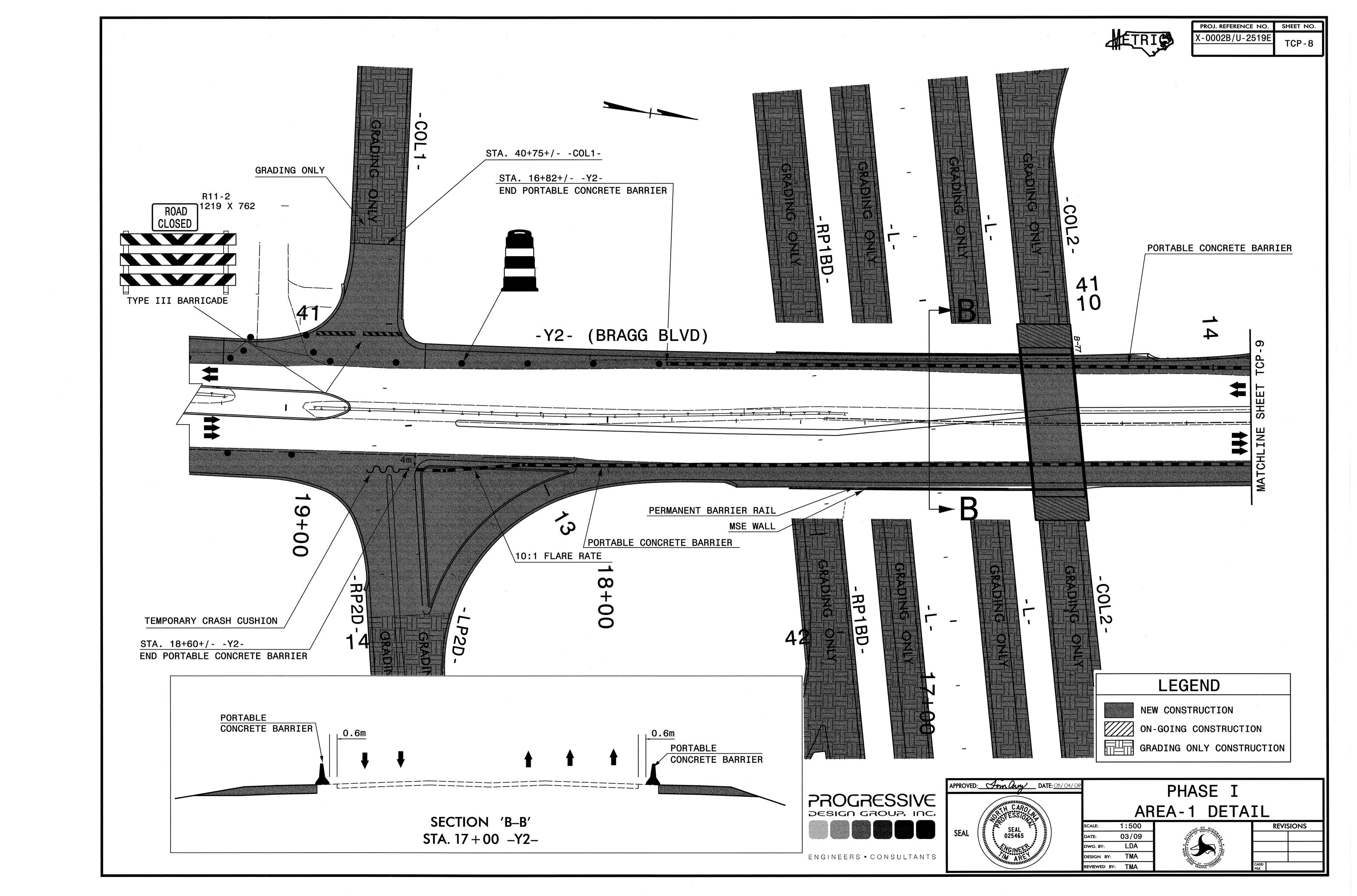
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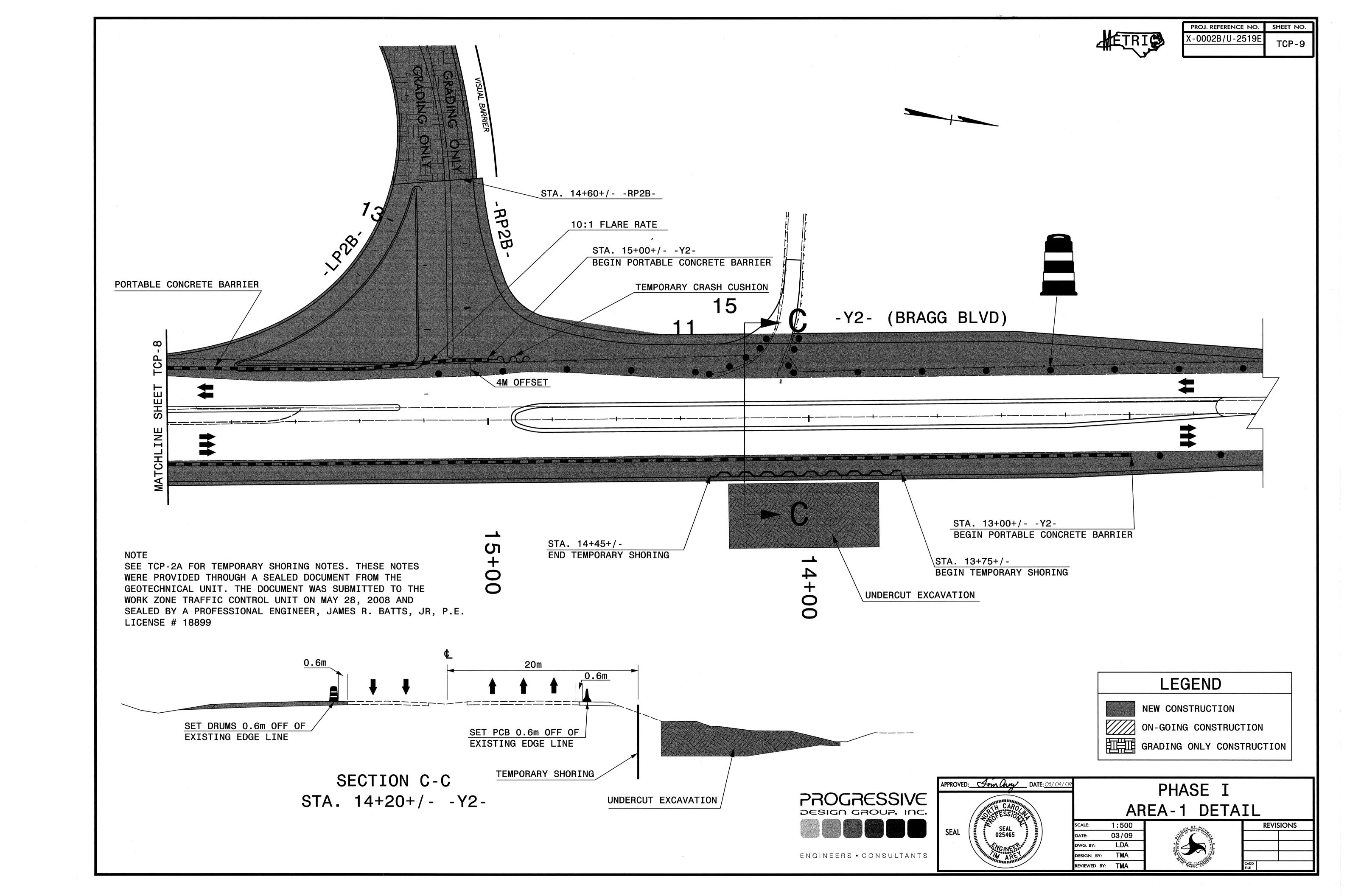


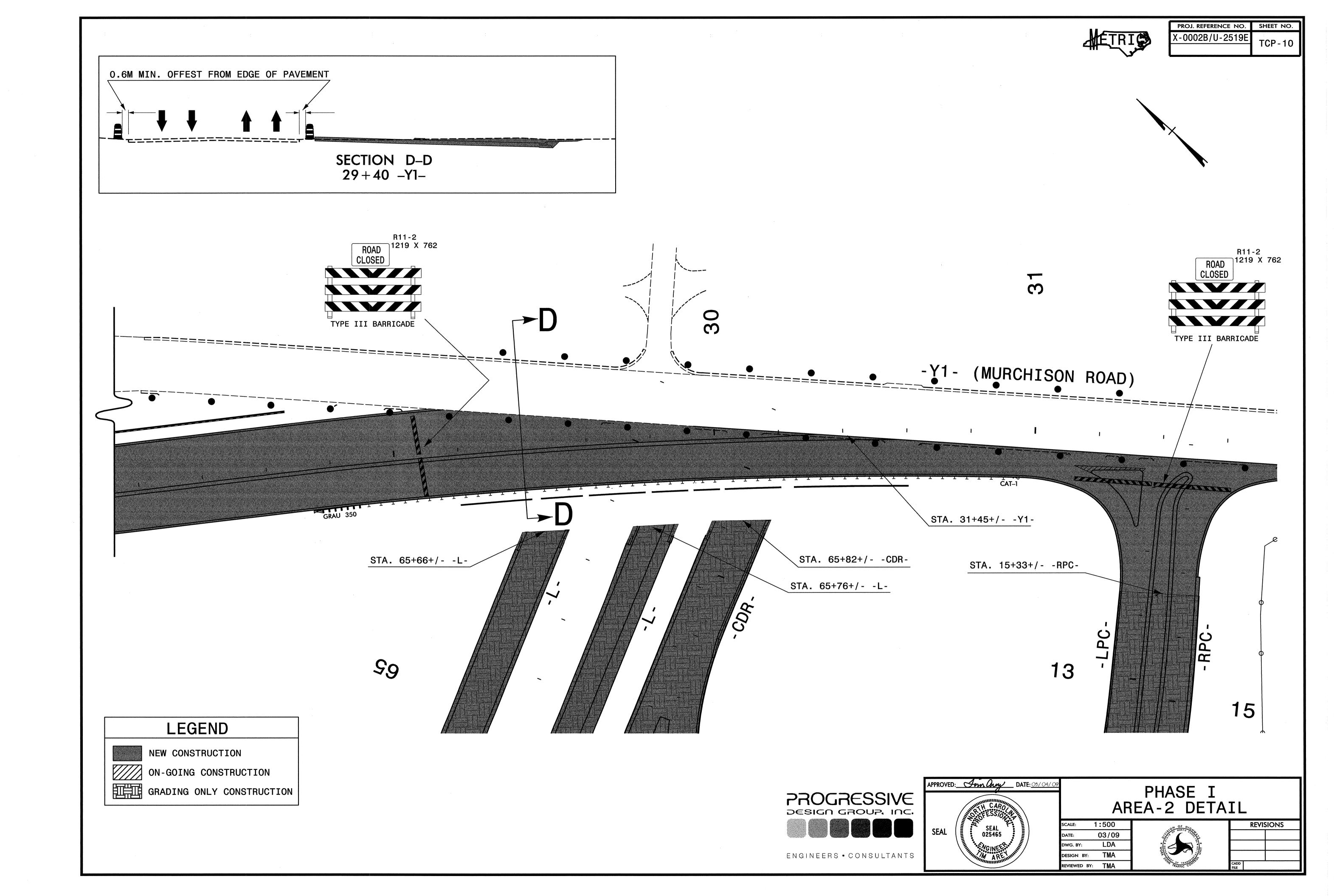










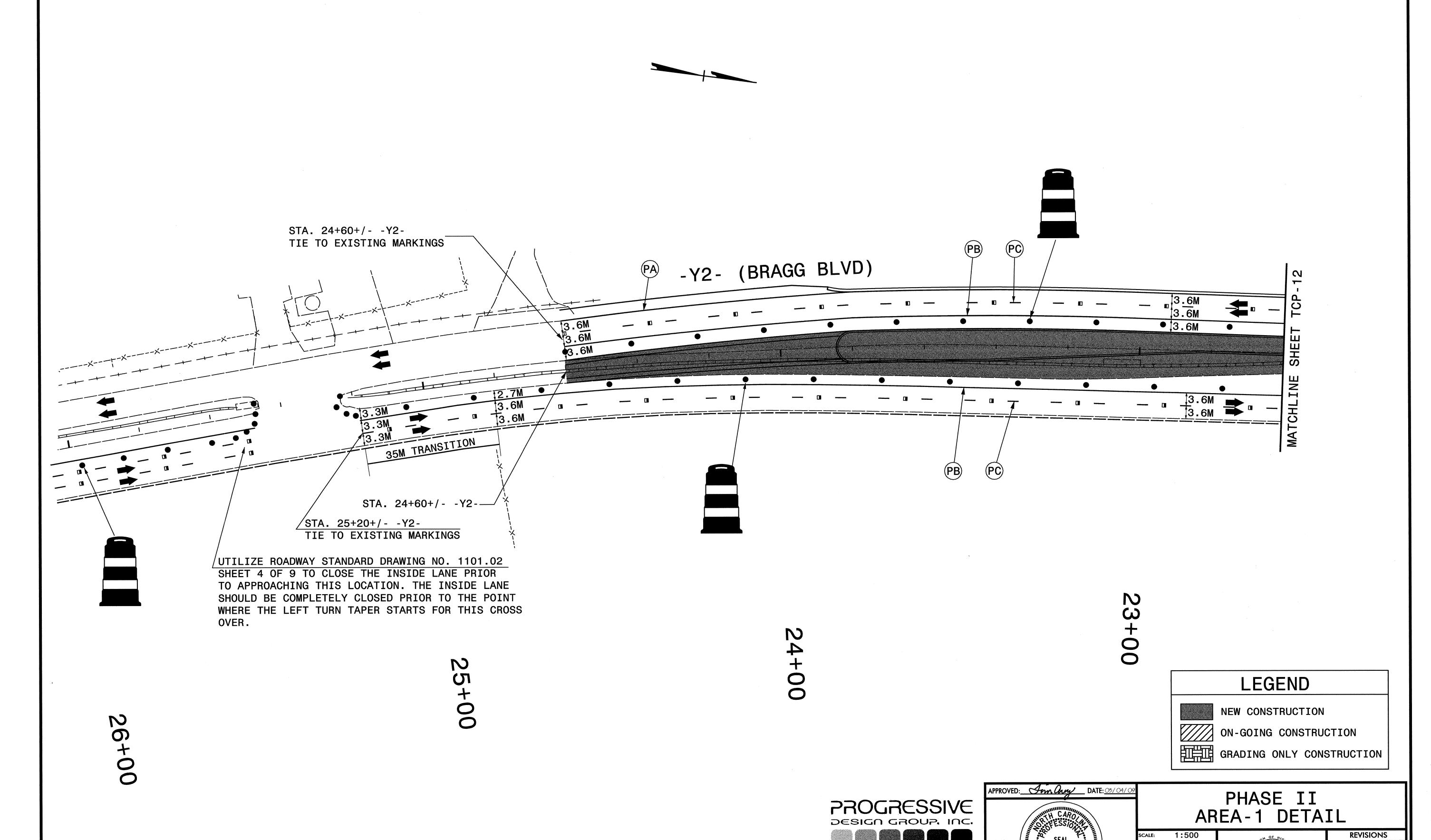


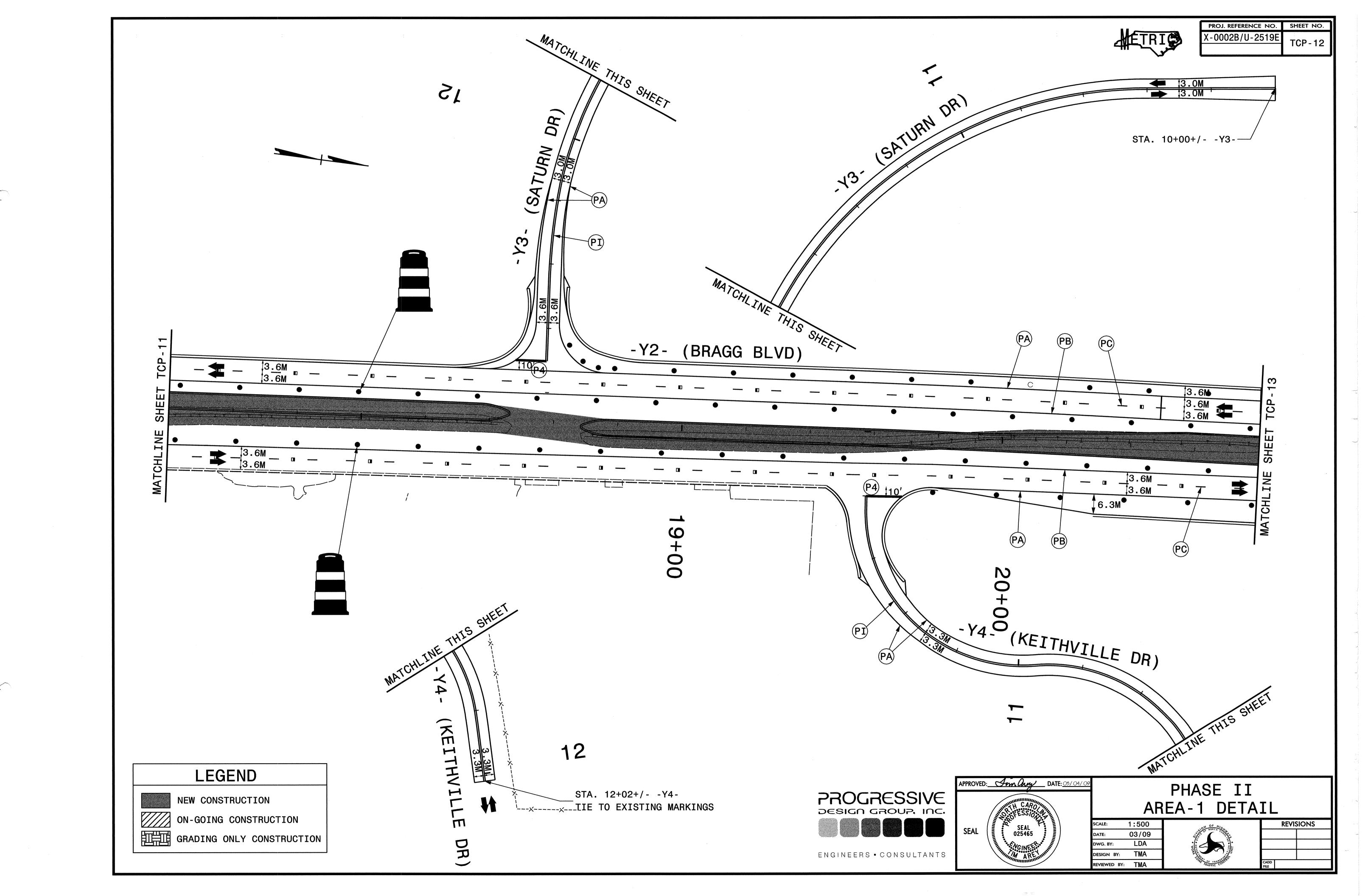
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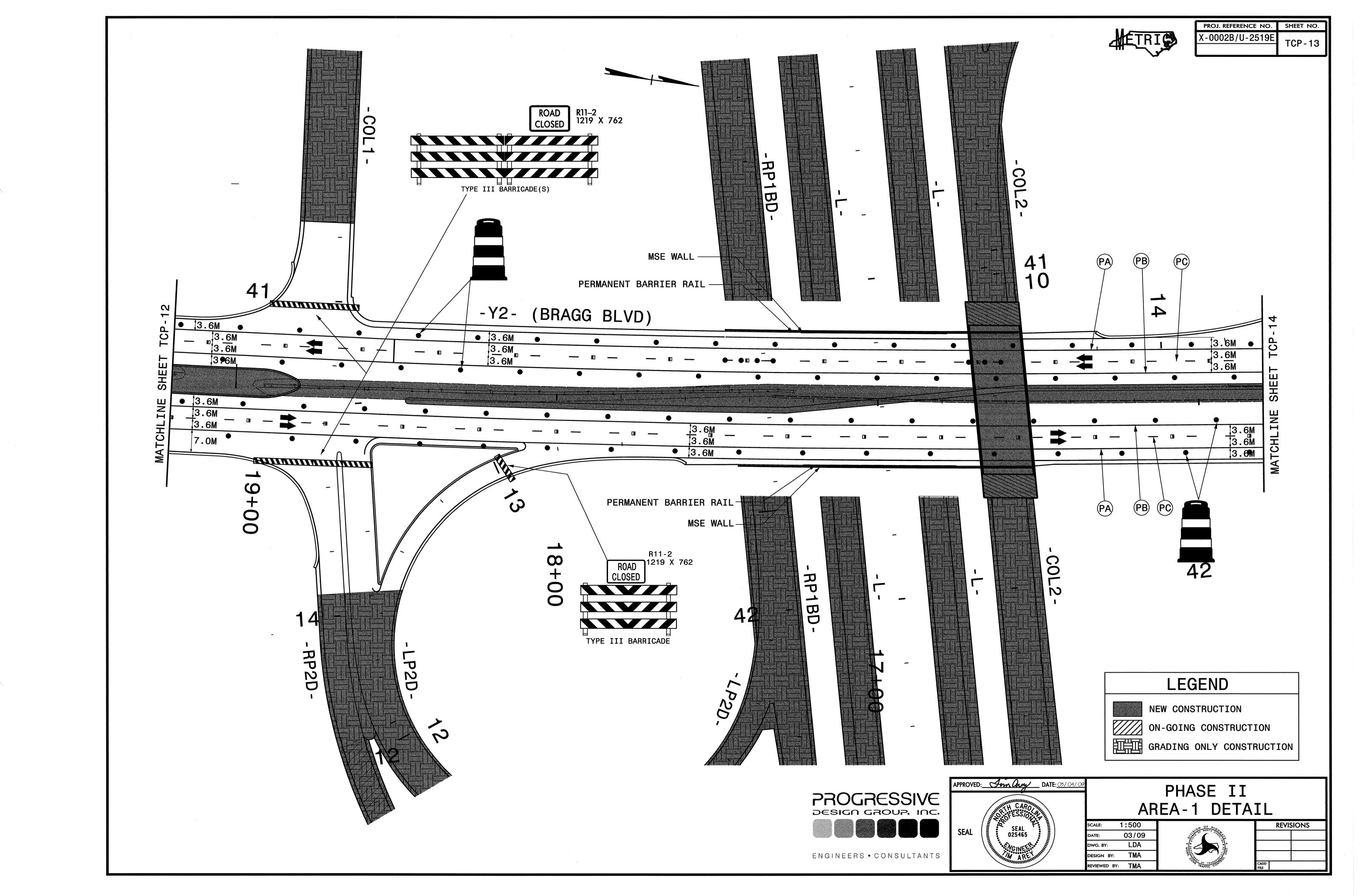
03/09 LDA

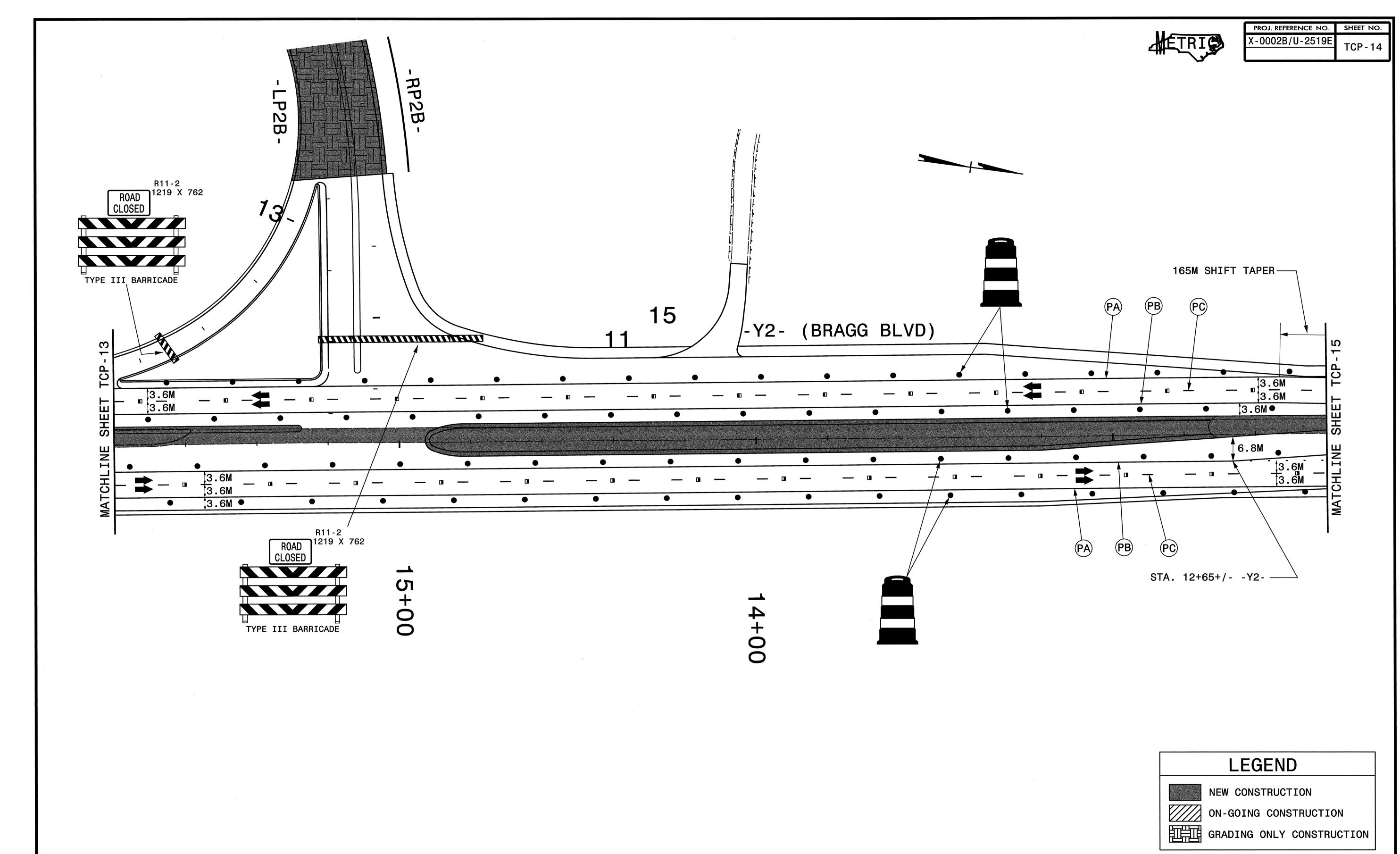
REVIEWED BY: TMA

X-0002B/U-2519E TCP-11

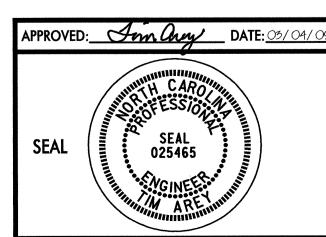












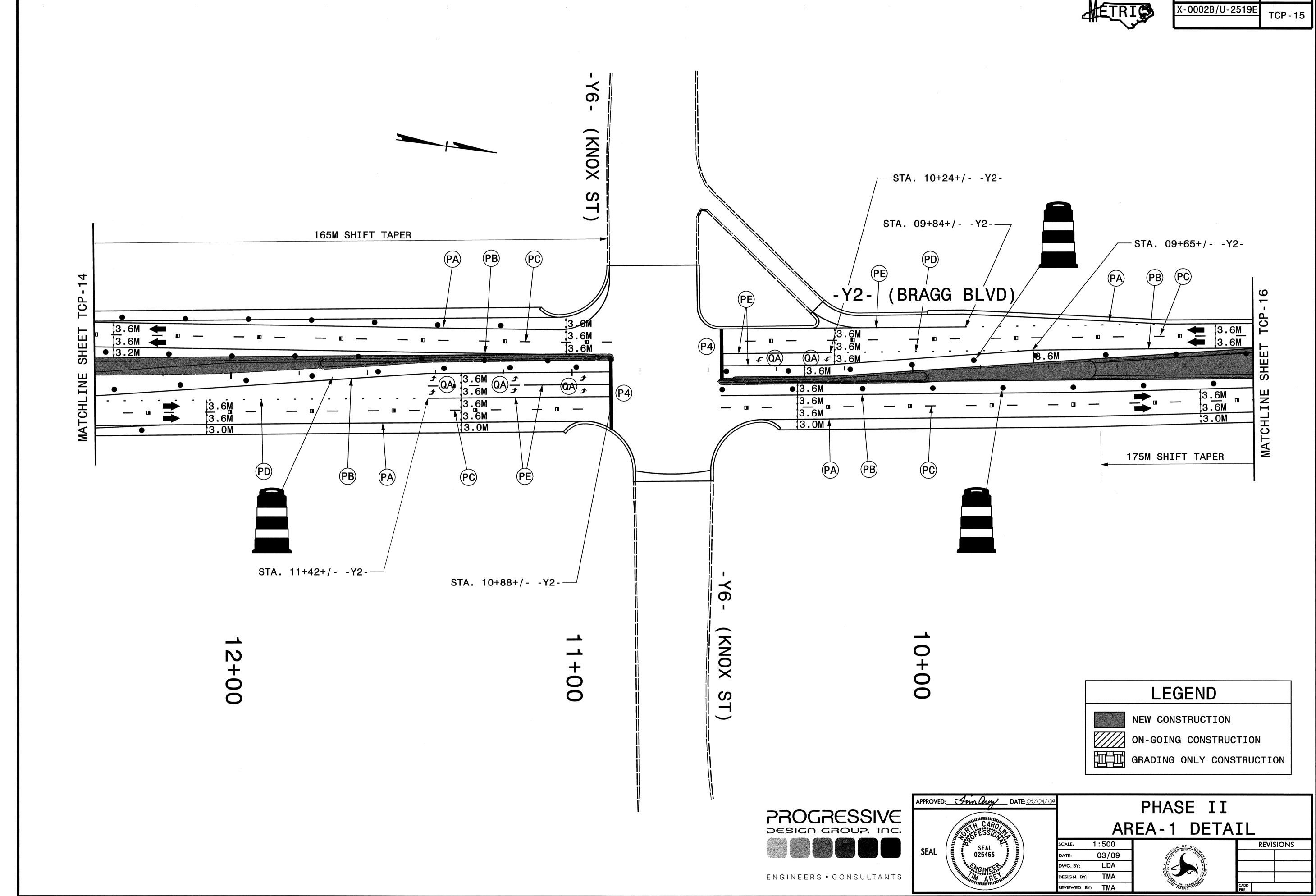
PHASE II AREA-1 DETAIL STOOL REVISIONS

SCALE:	1:500
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DWG. BY:	LDA
DESIGN BY:	TMA
REVIEWED BY:	TMA



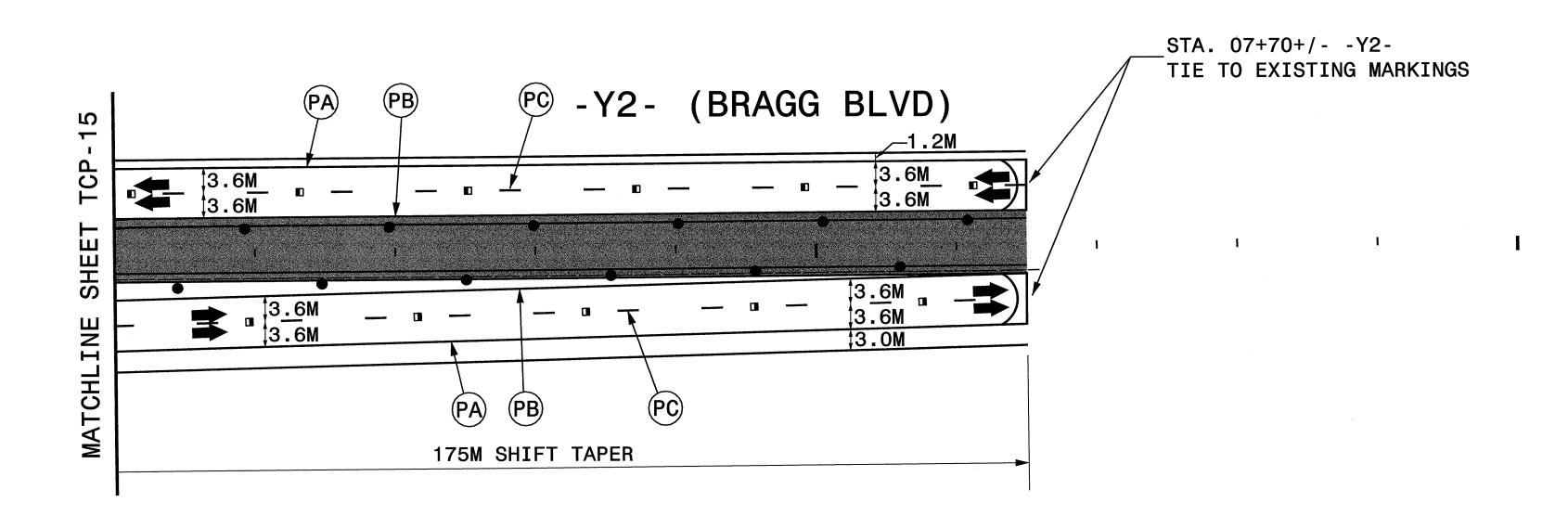


PROJ. REFERENCE NO. SHEET NO. X-0002B/U-2519E





 X-0002B/U-2519E
 TCP-16



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8+00

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ON-GOING CONSTRUCTION

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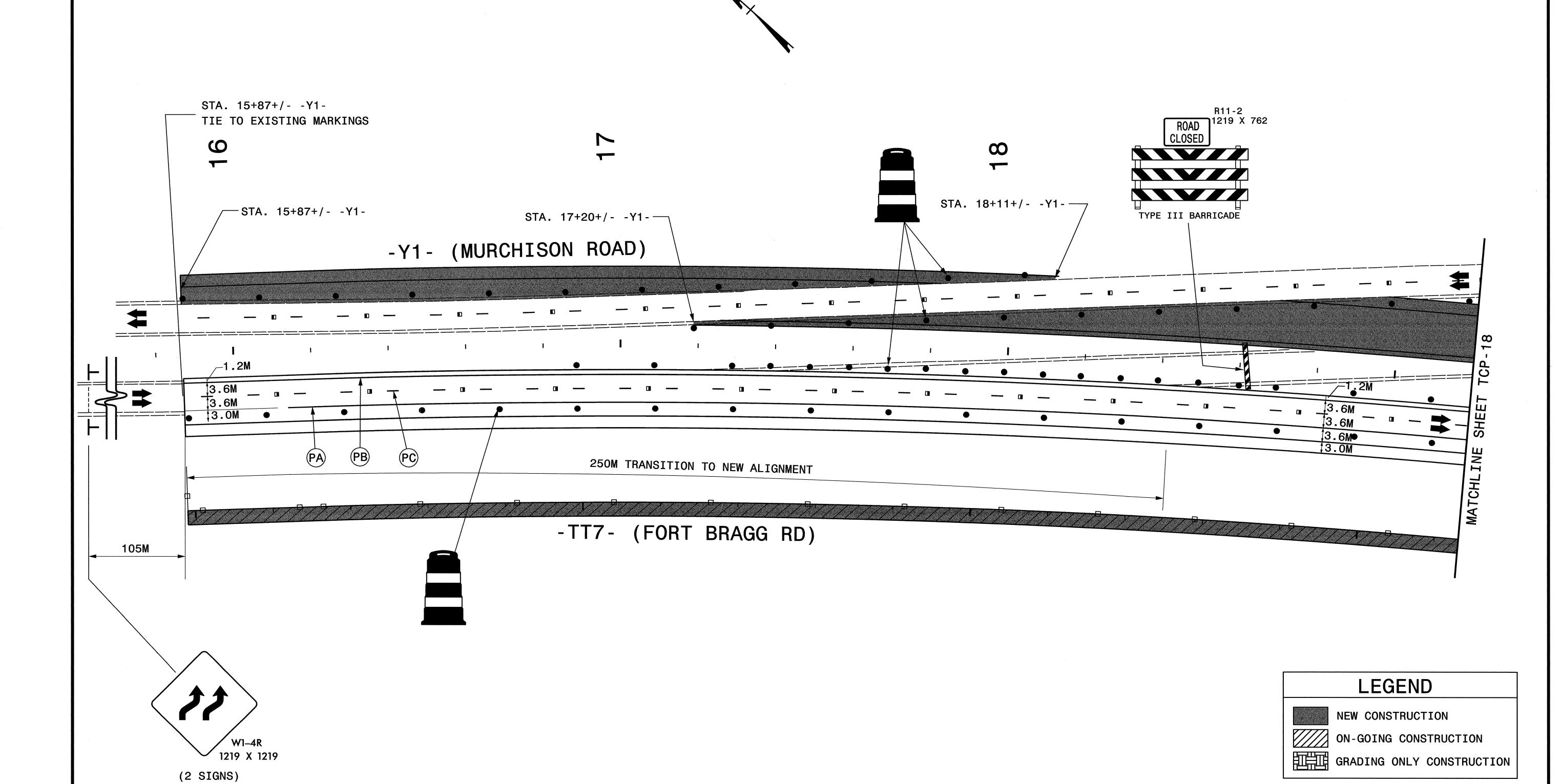
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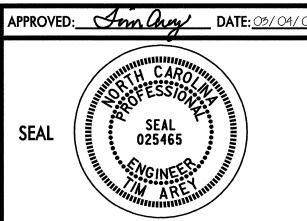


REVISIONS









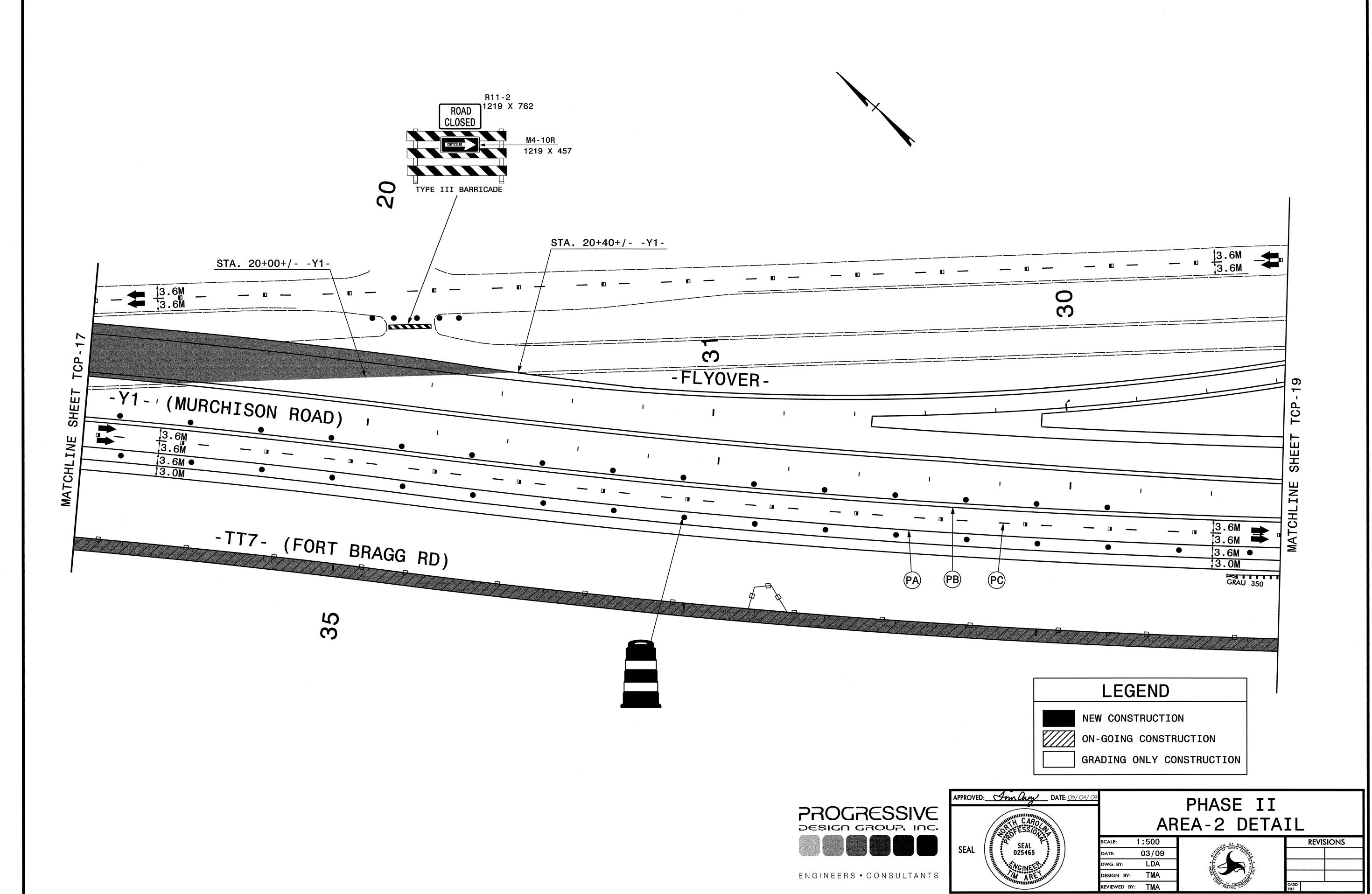
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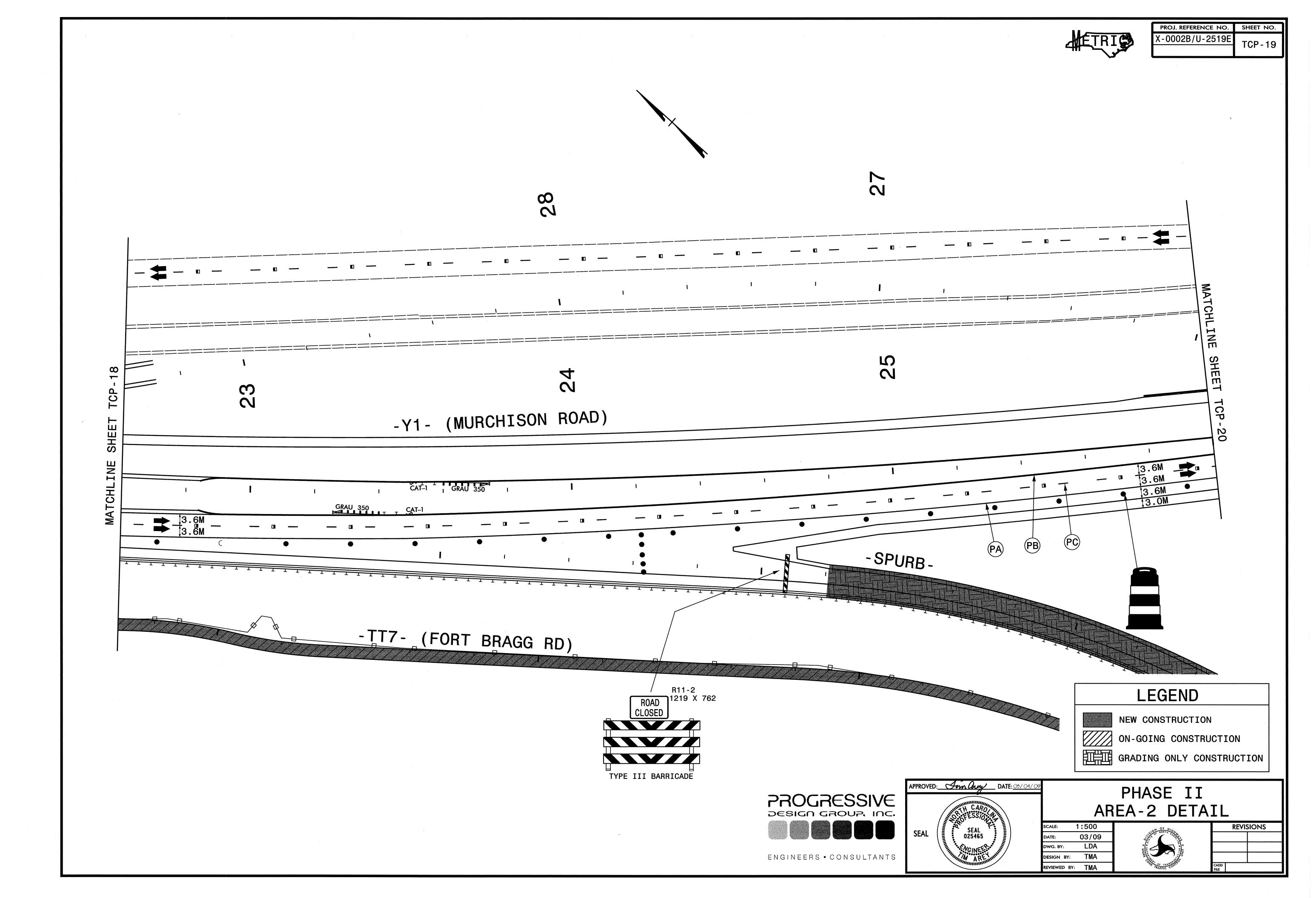
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REVISIONS

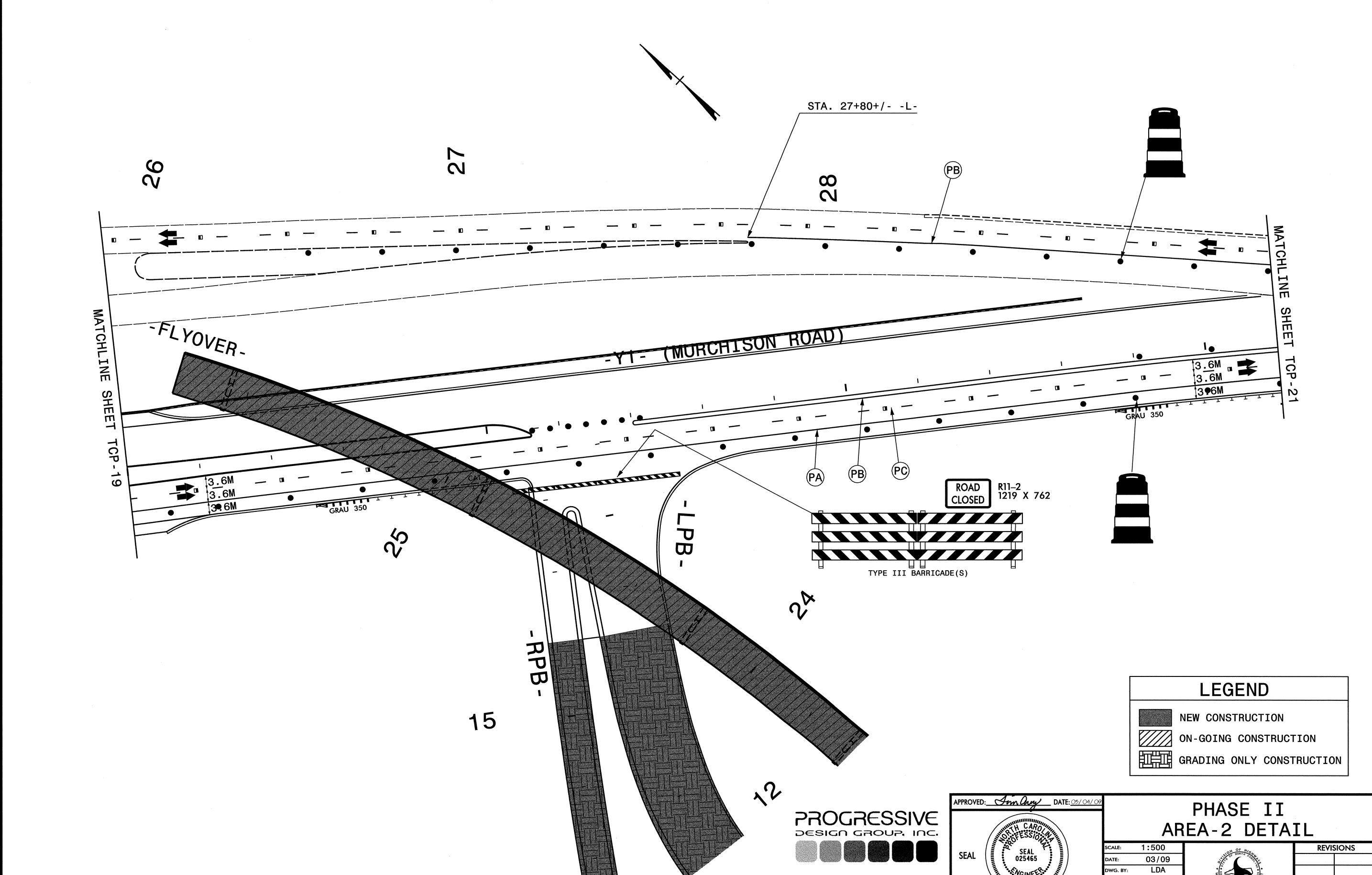




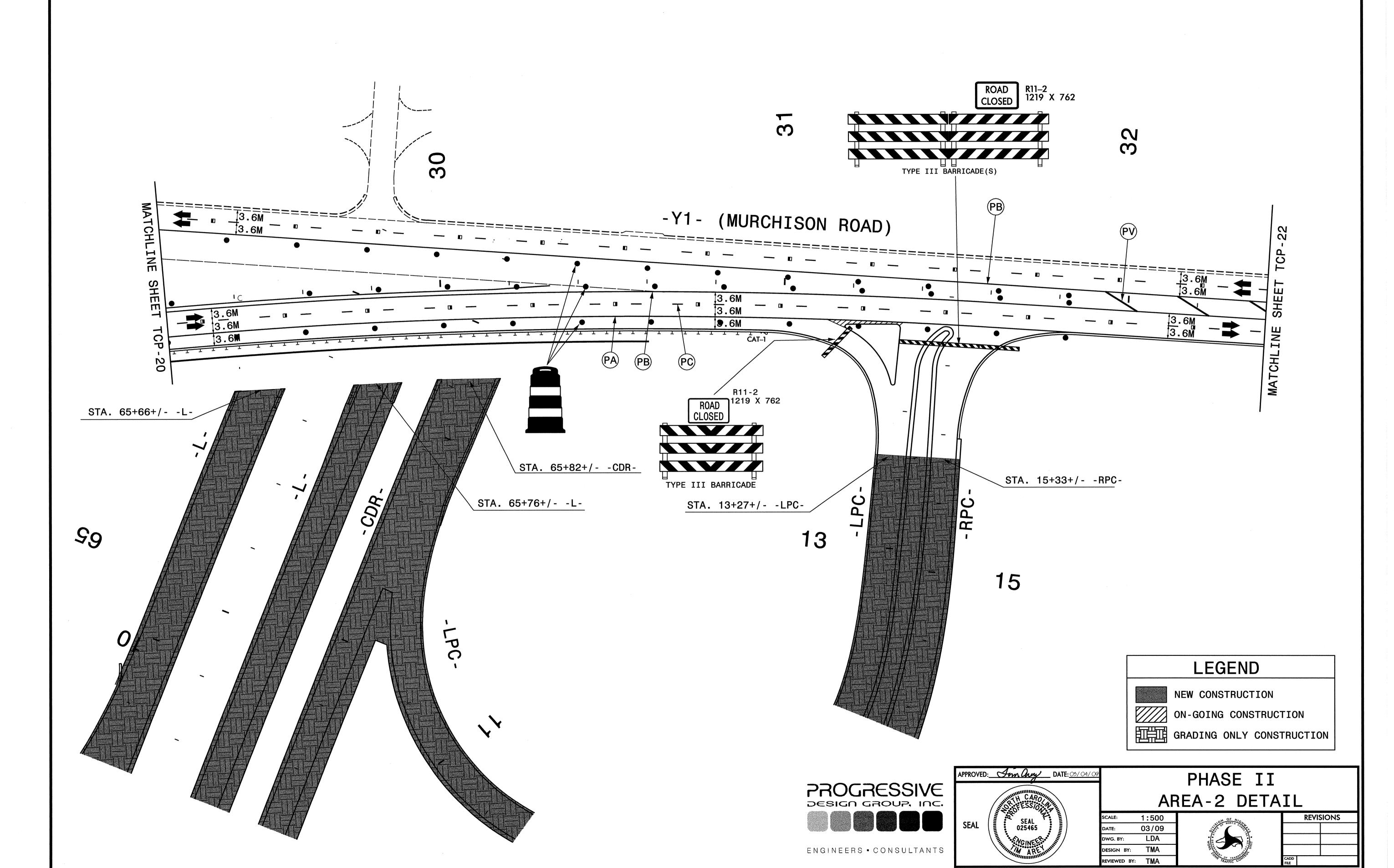


PROJ. REFERENCE NO. SHEET NO. X-0002B/U-2519E TCP-20

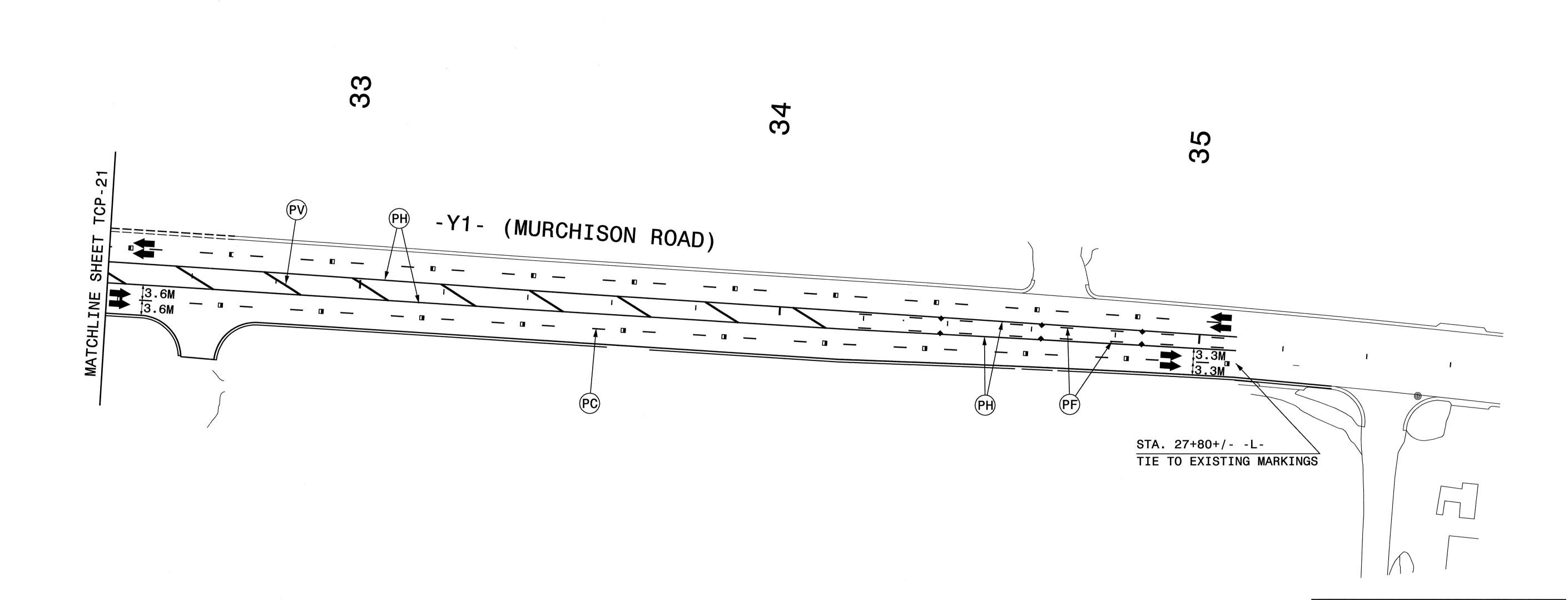
REVIEWED BY: TMA





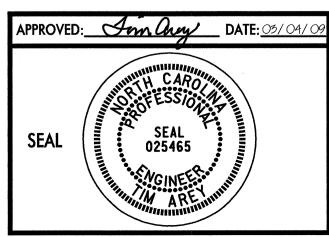








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PHASE II AREA-2 DETAIL

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DWG. BY:	LDA	
DESIGN BY:	TMA	
REVIEWED BY:	TMA	



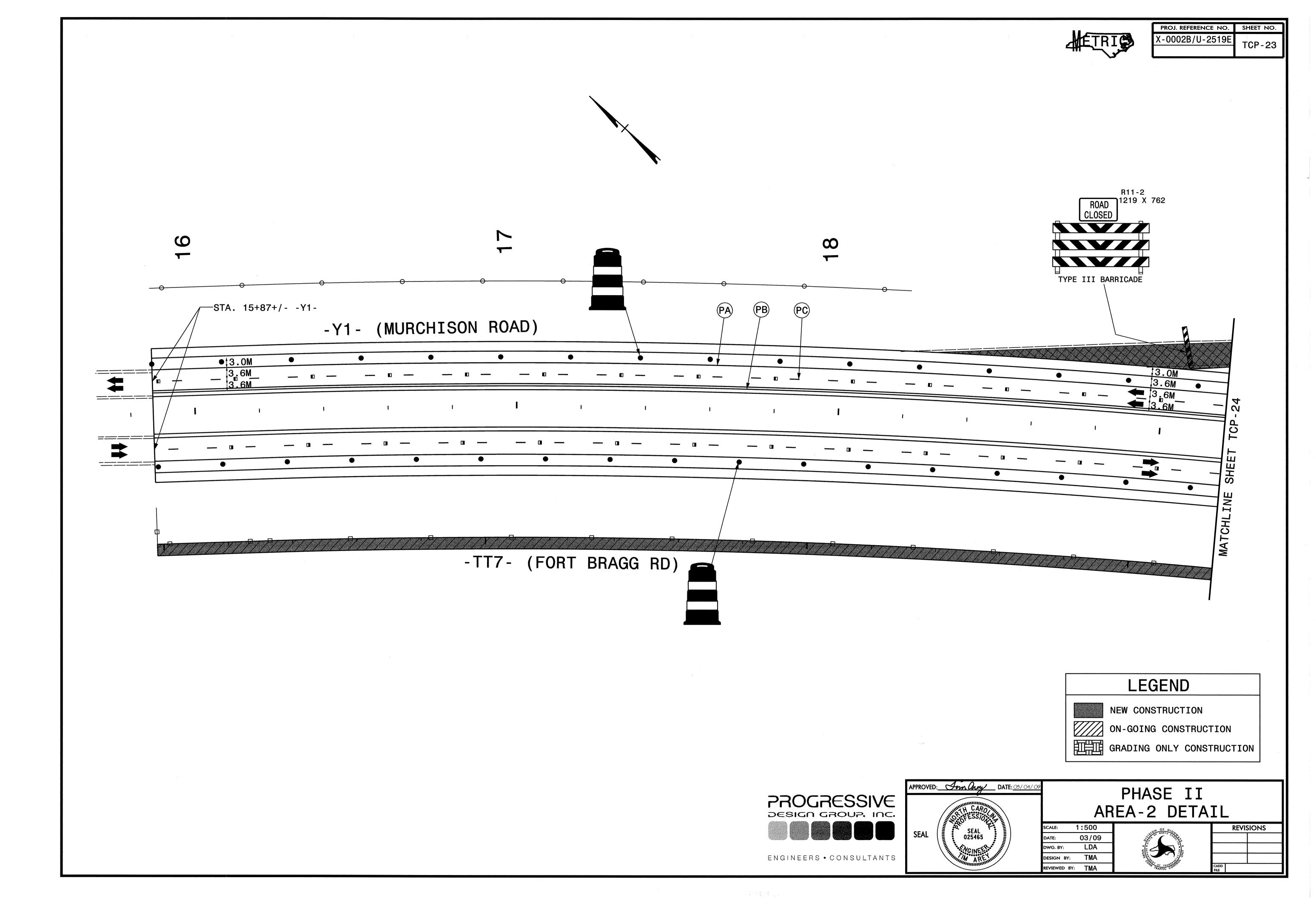
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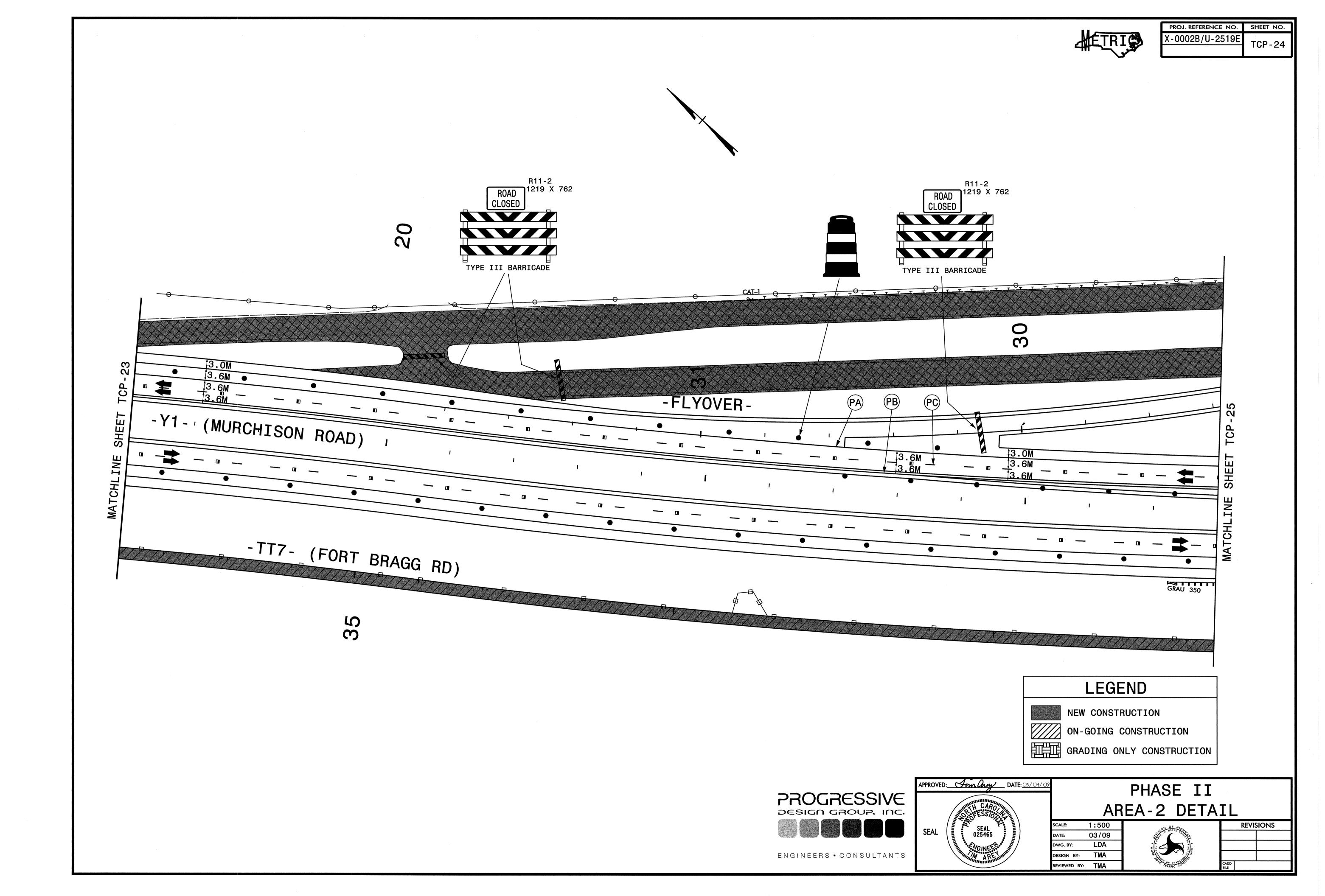
NEW CONSTRUCTION

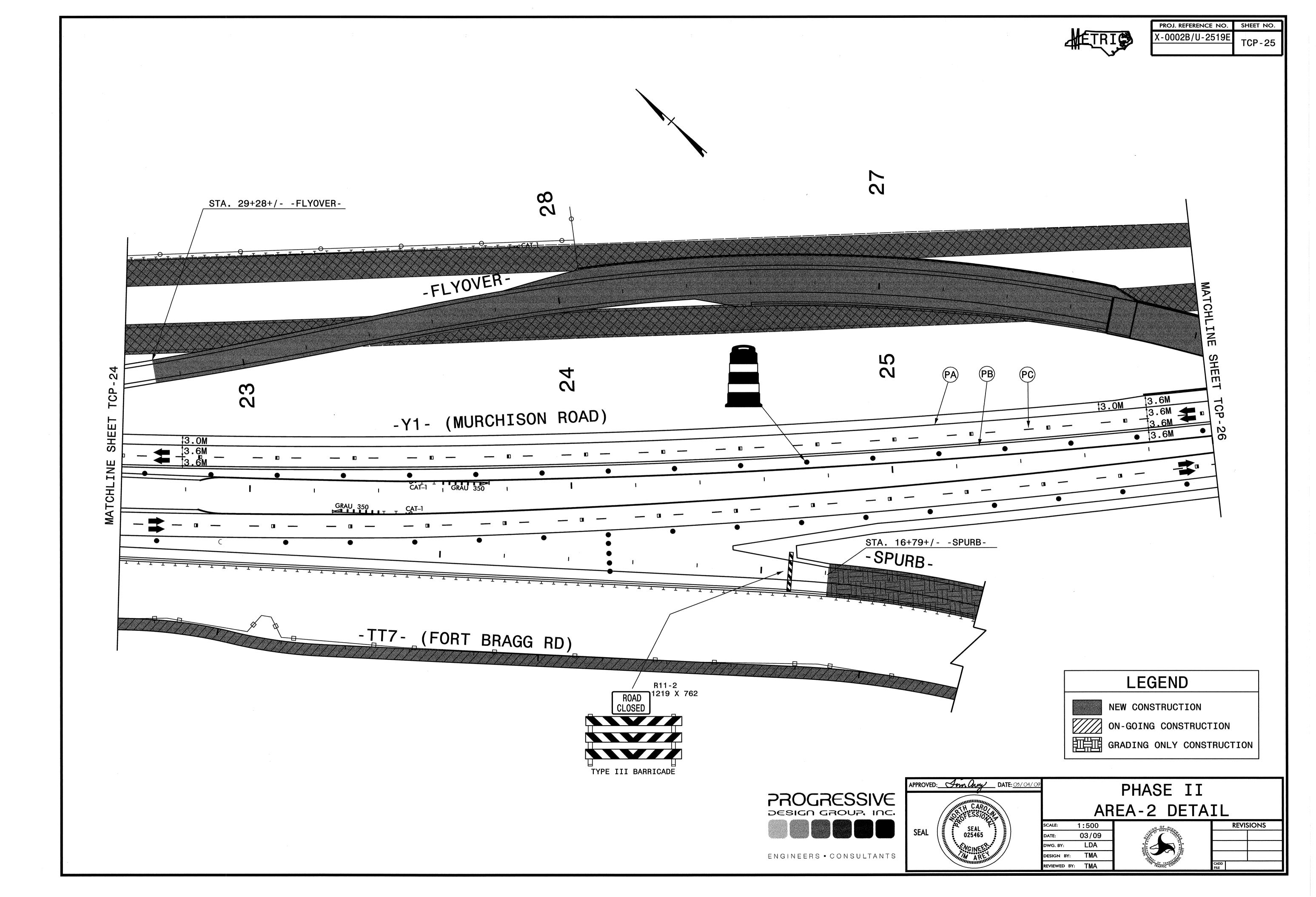
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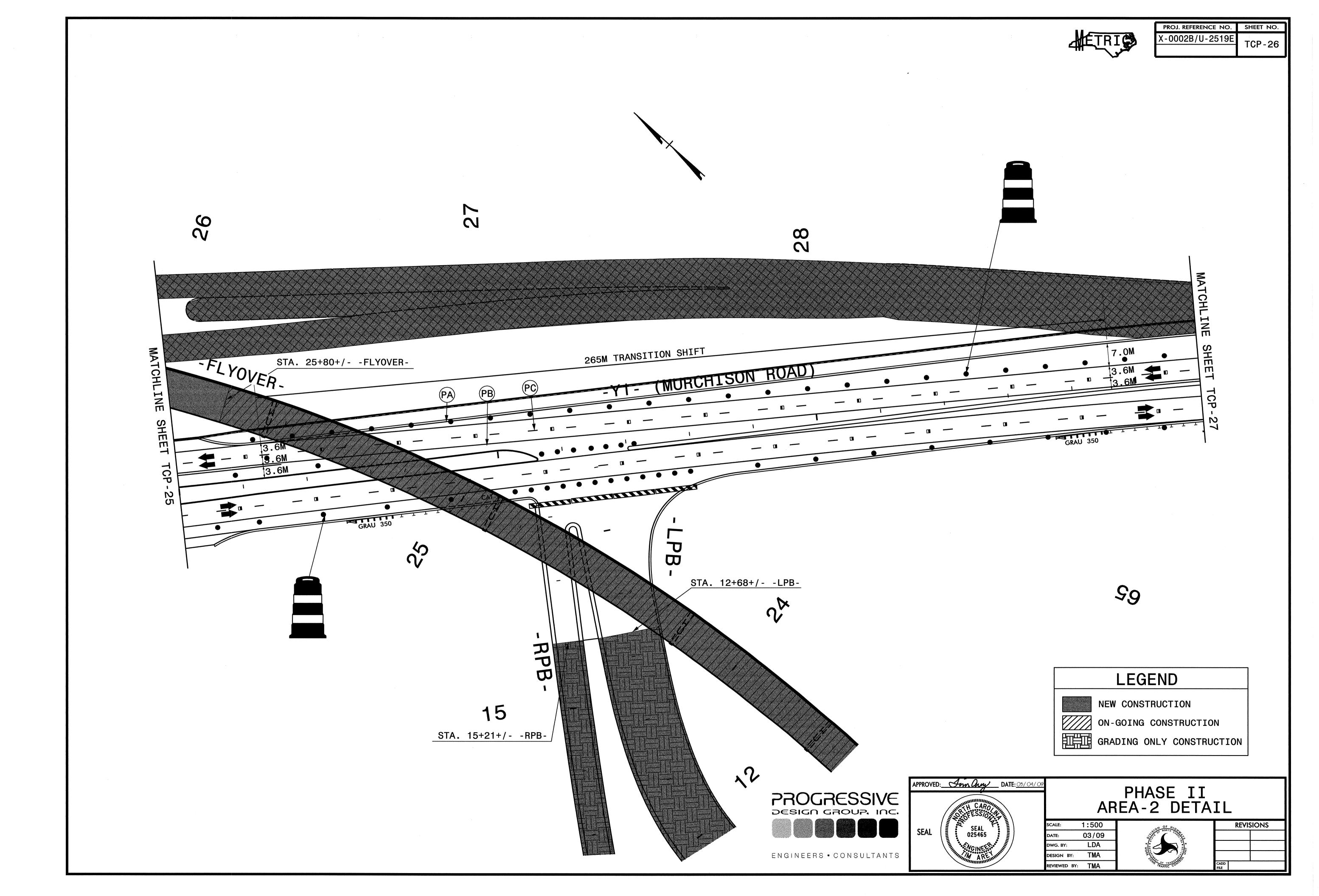
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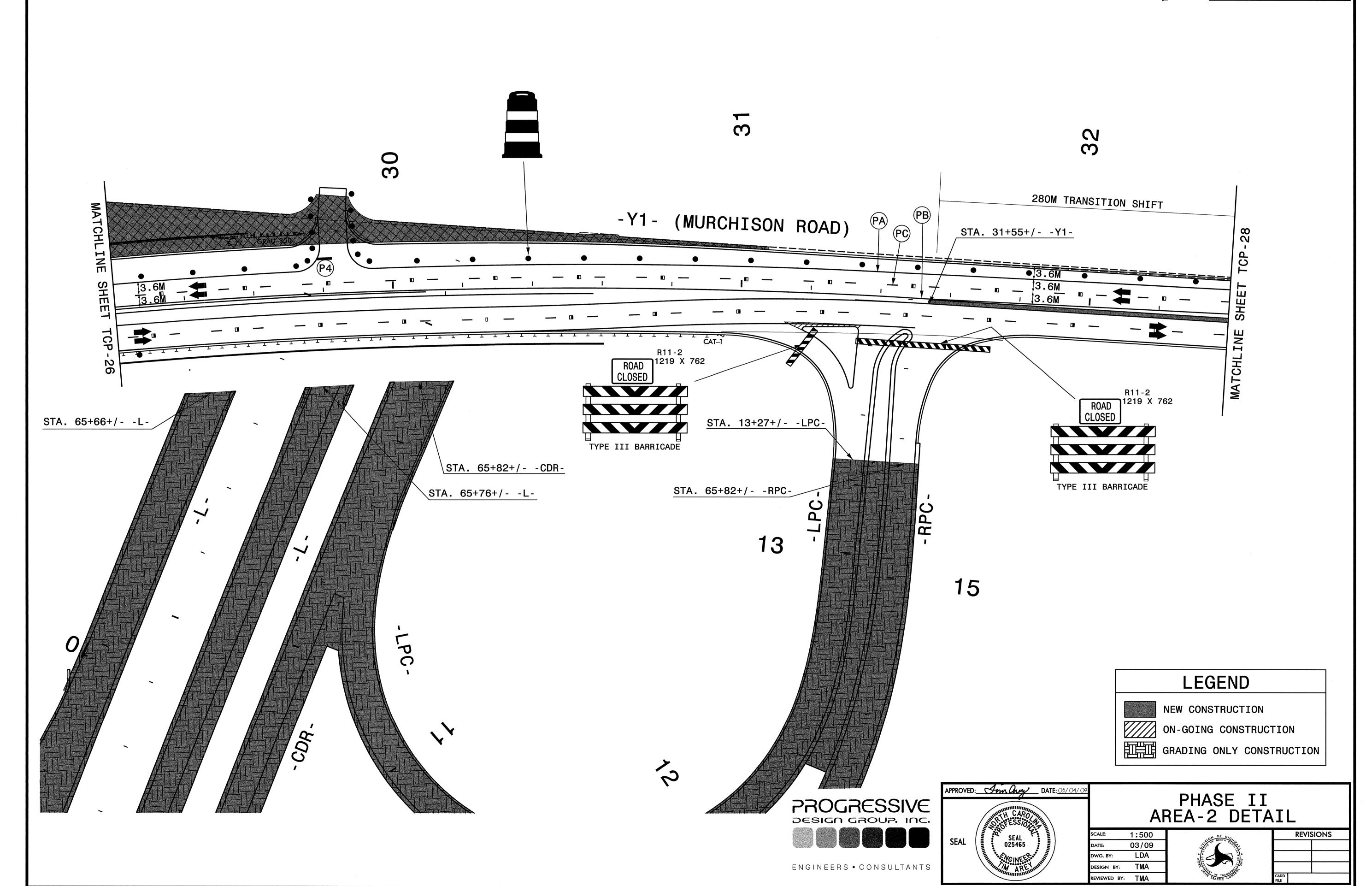






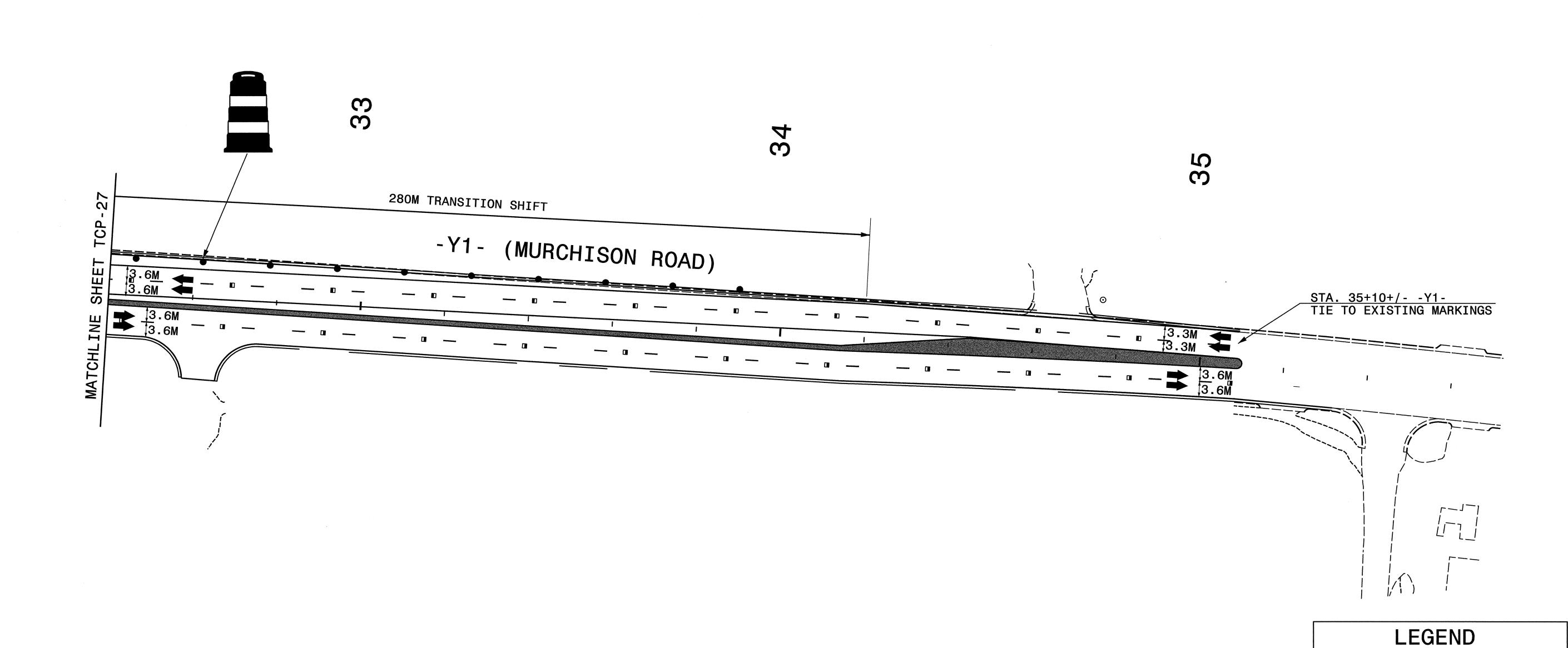


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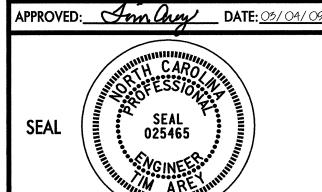




PROJ. REFERENCE NO. X-0002B/U-2519E TCP-28







PHASE II AREA-2 DETAIL

SCALE:	1:500	
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DWG. BY:	LDA	
DESIGN BY:	TMA	
REVIEWED BY:	TMA	



NEW CONSTRUCTION

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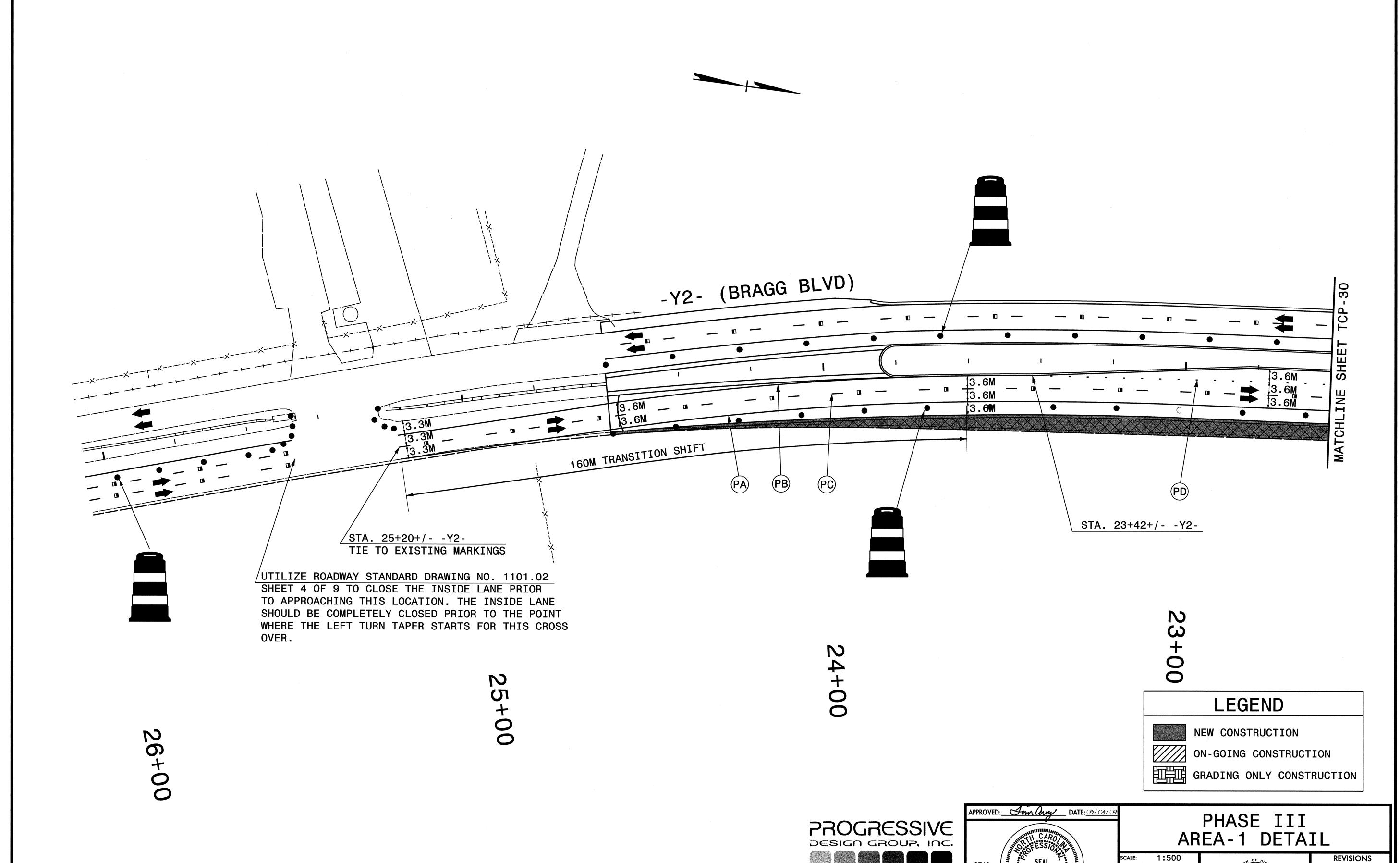
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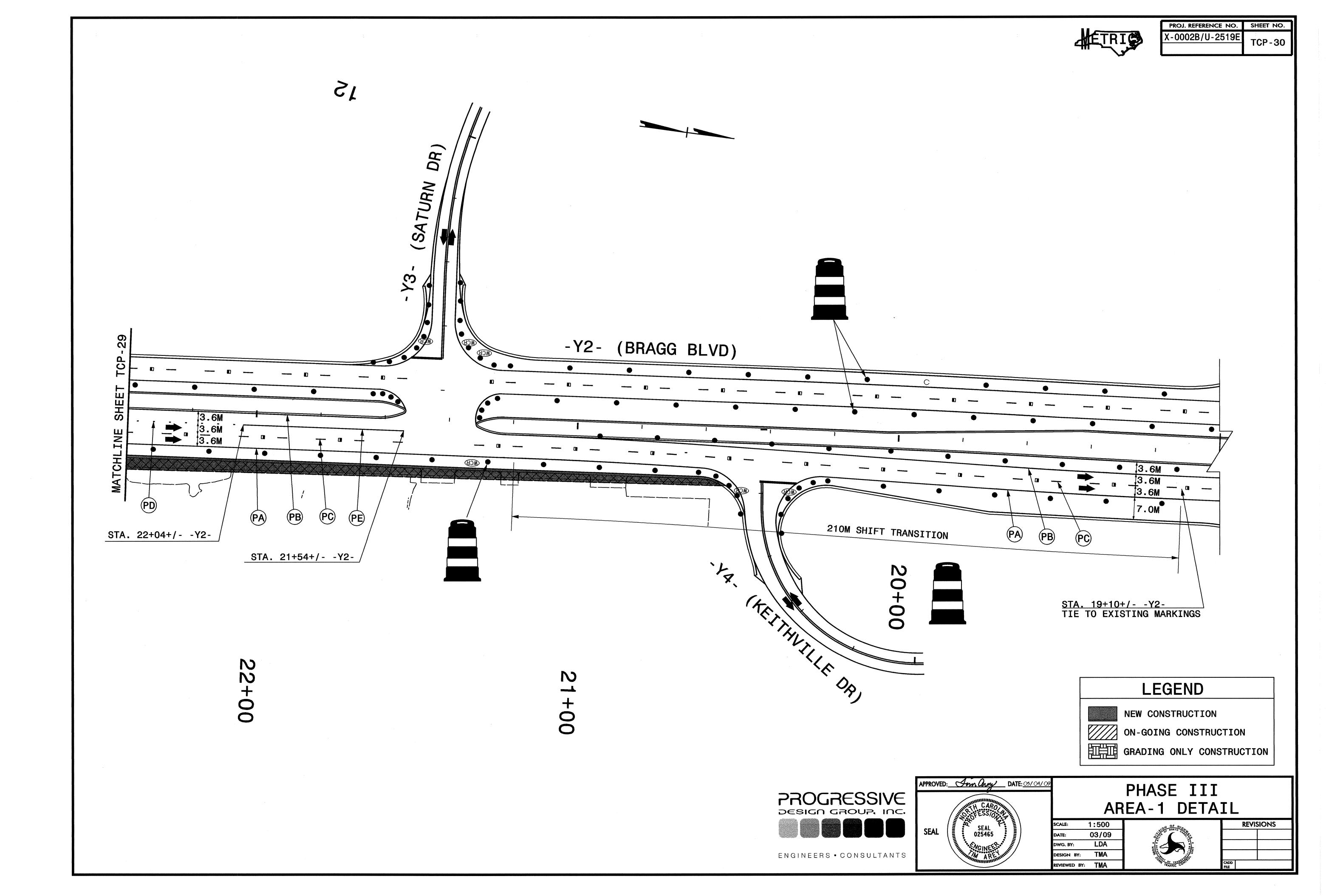
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03/09 LDA

REVIEWED BY: TMA

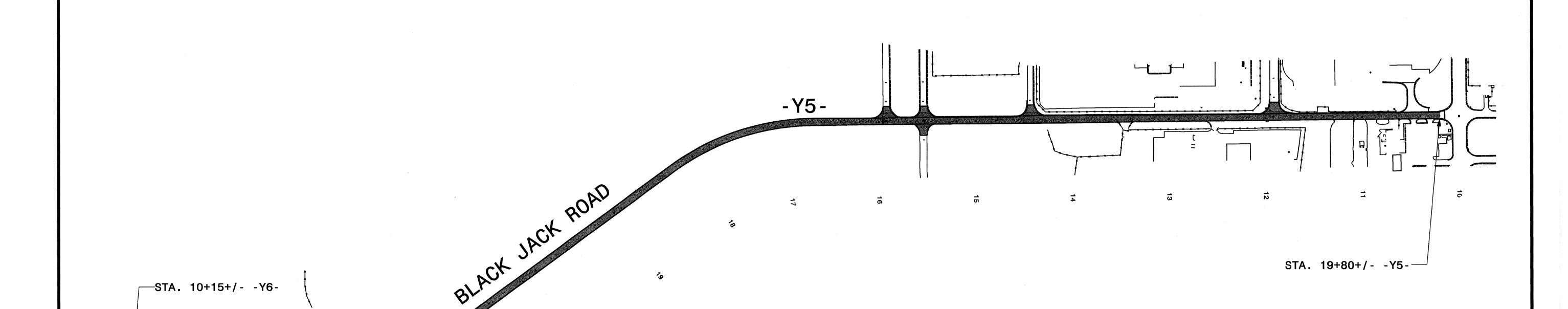
X-0002B/U-2519E TCP-29





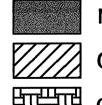


X-0002B/U-2519E TCP-31 TCP-31



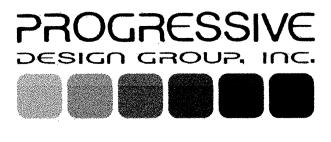
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ON-GOING CONSTRUCTION

GRADING ONLY CONSTRUCTION

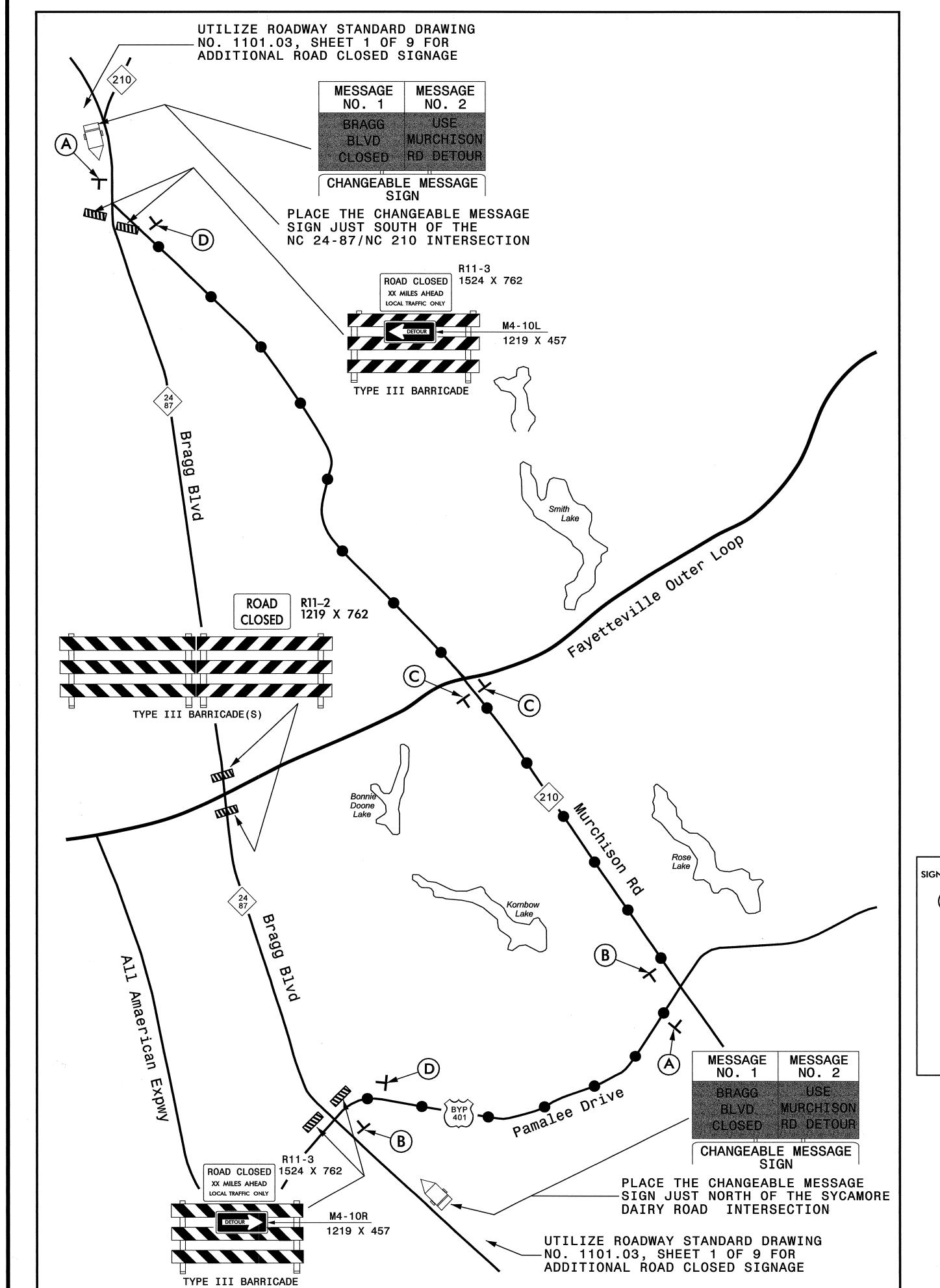


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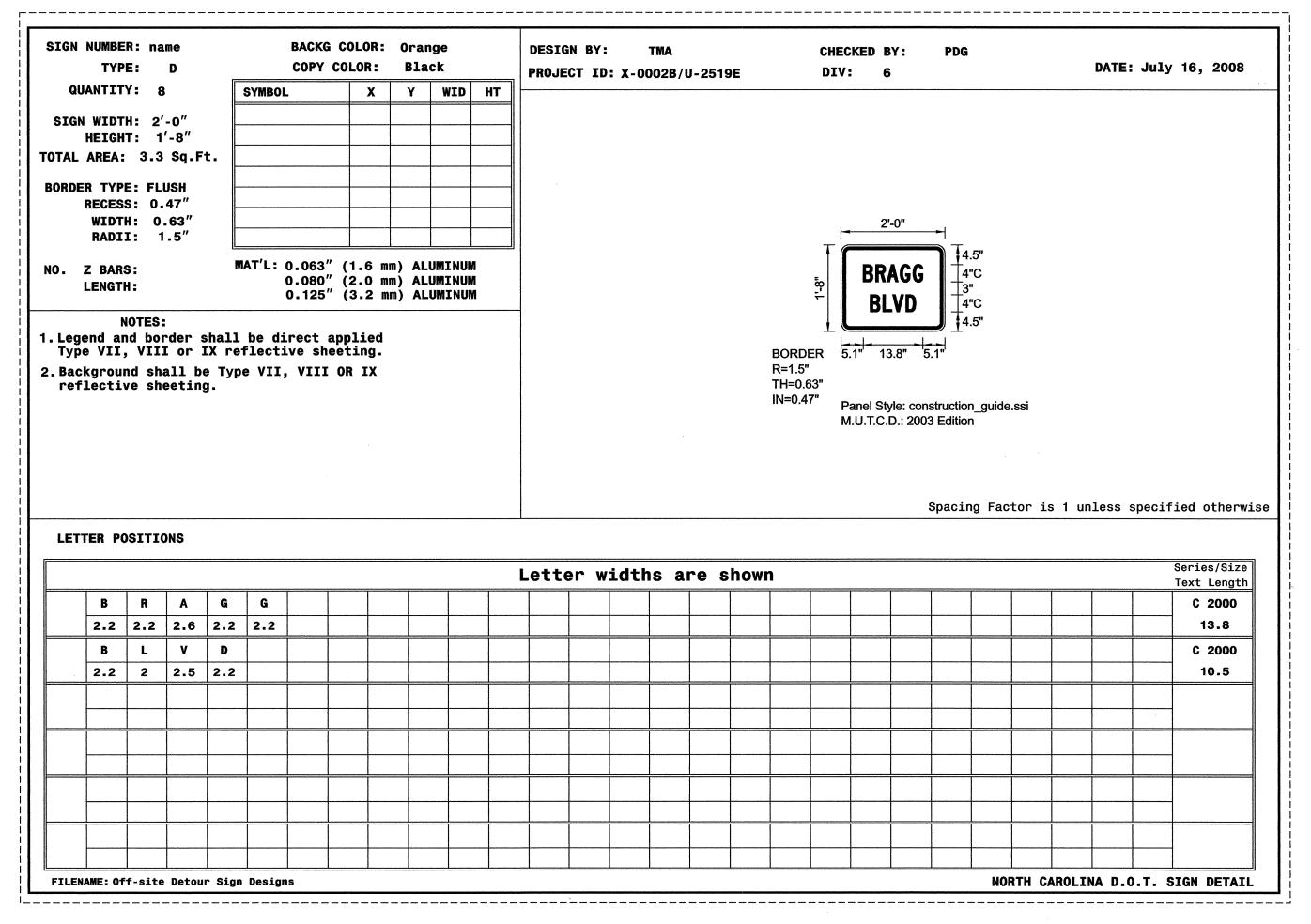
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DATE:	03/09
DWG. BY:	LDA
DESIGN BY:	TMA
REVIEWED BY:	: TMA

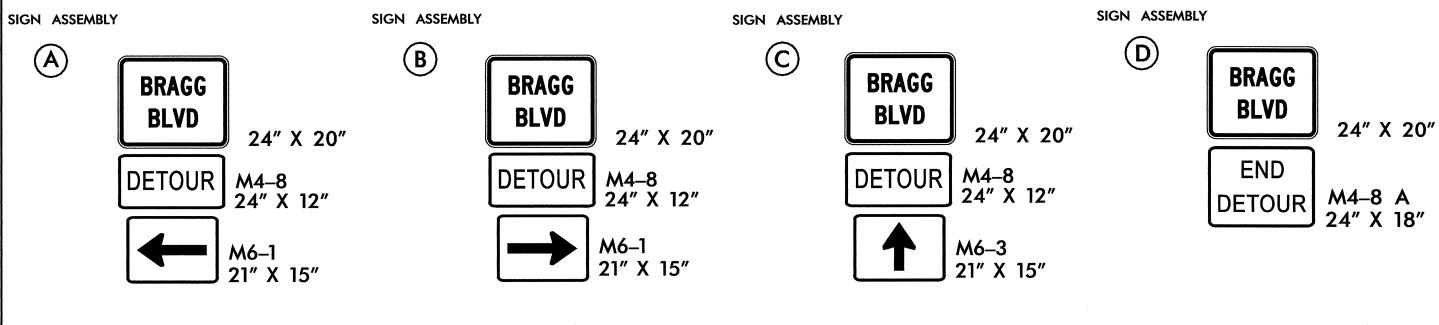
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PROJ. REFERENCE NO. SHEET NO. X-0002B/U-2519E TCP-32





NOTE:

1. ALL DETOUR SIGN LOCATIONS ARE APPROXIMATE. FINAL PLACEMENT AS DIRECTED BY ENGINEER.



ENGINEERS . CONSULTANTS

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OFFSITE DETOUR SIGNING

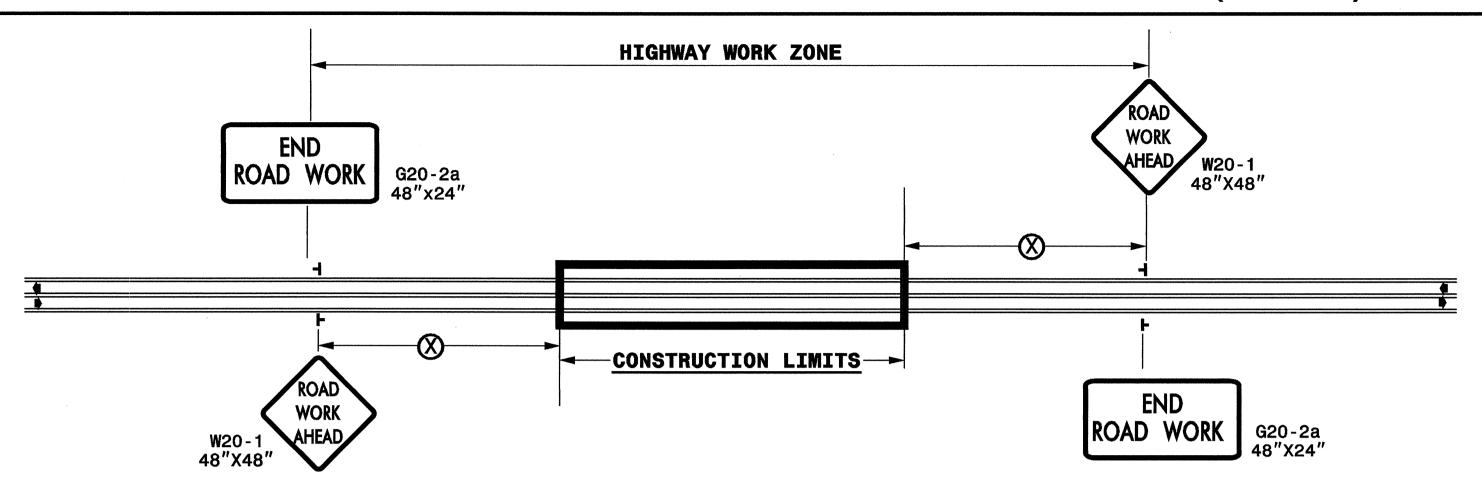
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DATE:	03/09	
DWG. BY:	LDA	
DESIGN BY:	TMA	
REVIEWED BY:	TMA	

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TRAFFIC CONTRACTOR	CADD FILE		



PROJ. REFERENCE NO. SHEET NO. X-0002B/U-2519E TCP-33





	RECOMMENDED Minimum Sign Spacing
POSTED SPEED LIMIT (M.P.H.)	⊗
≤ 50	500′
≥ 55	1000′

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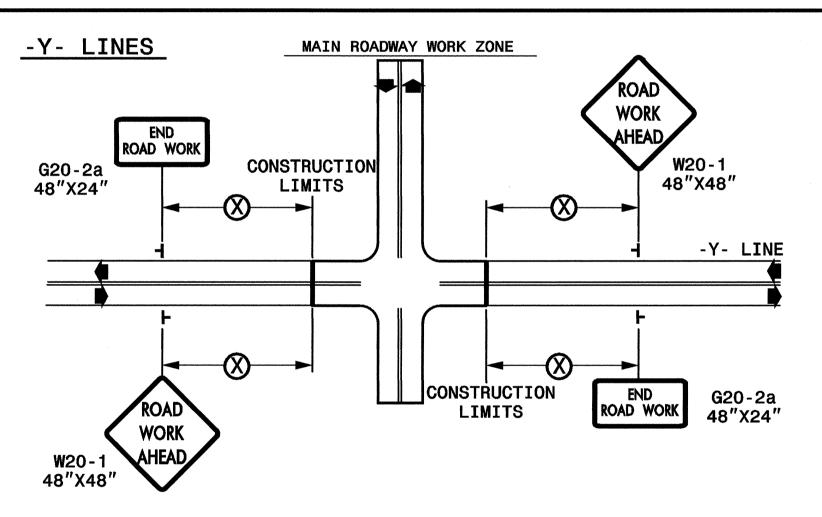
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ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB 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 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB 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.



APPROVED: Jon Chay DATE: 05/04/09 SEAL 025465

LEGEND

├ STATIONARY SIGN DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS



03/09

LDA

DWG. BY:

DESIGN BY: TMA REVIEWED BY: TMA

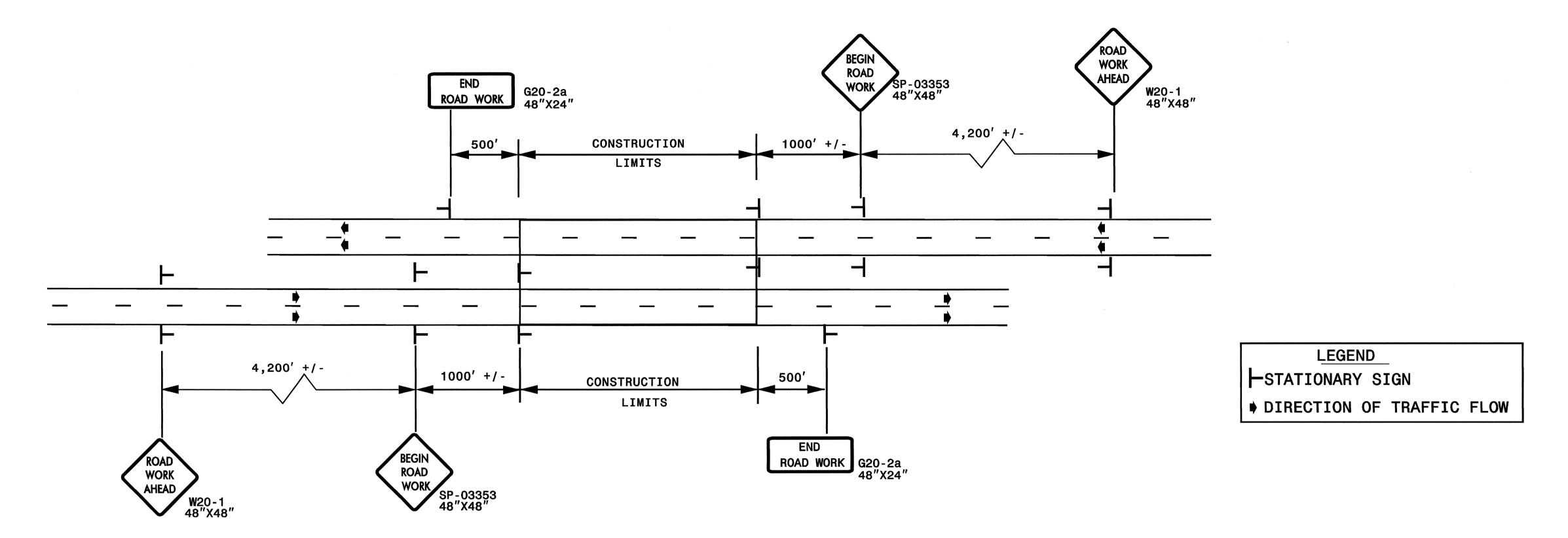
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ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

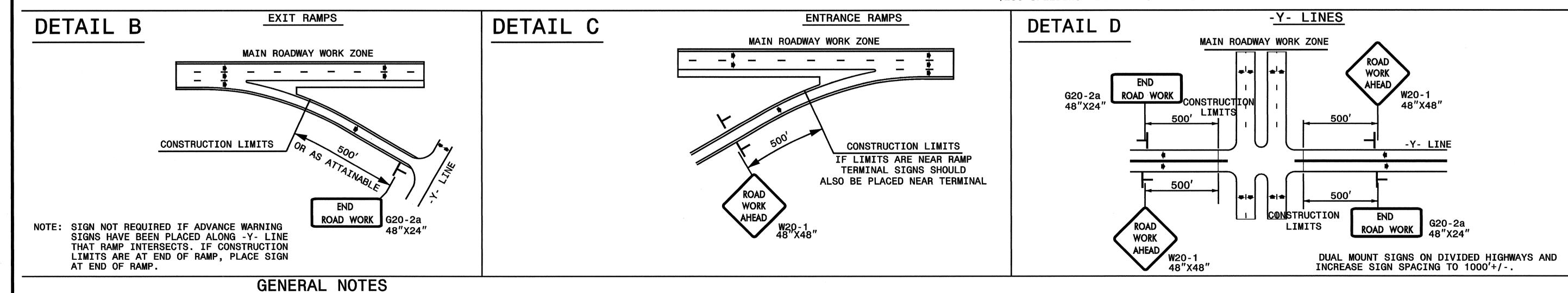


PROJ. REFERENCE NO. SHEET NO. X-0002B/U-2519E TCP-34

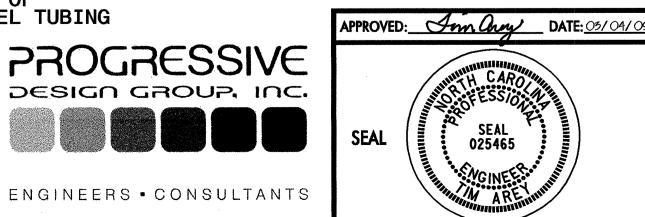
DETAIL A



USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.



- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB 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 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO PROCESSIVE 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.



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

03/09 DWG. BY: LDA DESIGN BY: TMA REVIEWED BY: TMA



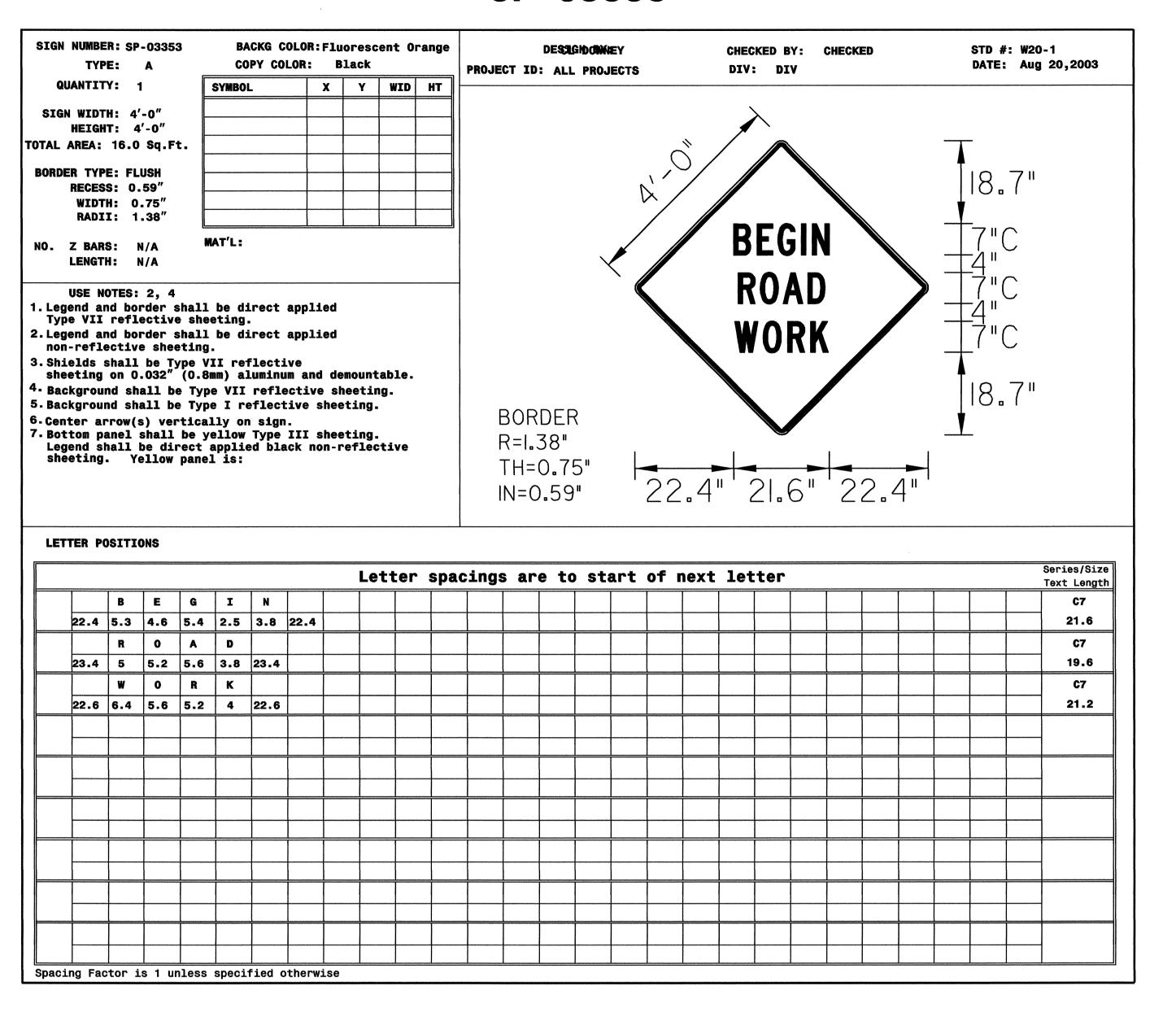
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PROJ. REFERENCE NO. SHEET NO.

X-0002B/U-2519E
TCP-35

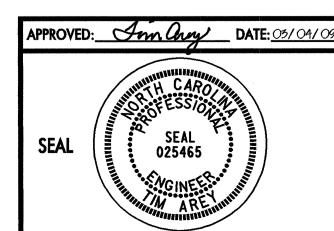


GENERAL NOTES FOR THE "BEGIN ROAD WORK" SIGN

-SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS

-WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO DETAIL A ON SHEET TCP-36.





DETAIL DRAWING FOR ADVANCED WORK ZONE WARNING SIGN DESIGNS

SCALE:		
DATE:	03/09	
DWG. BY:	LDA	
DESIGN BY:	TMA	
REVIEWED BY:	TMA	

