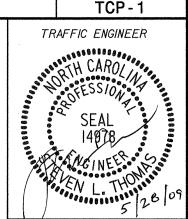
TRAFFIC CONTROL PLAN



PROJECT REFERENCE NO. SHEET NO.

U-5018B TCP-1

TRAFFIC ENGINEER



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED 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
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.06	PAVEMENT MARKINGS - THRU LANE DROP
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY & PERMANENT)

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE RDWY STD DWGS, LEGEND AND INDEX OF SHEETS, WORK ZONE PAVEMENT MARKING SCHEDULE
TCP-2	PROJECT NOTES
TCP-3	TRAFFIC CONTROL PHASING
TCP-4	PHASE I
TCP-5	PHASE II
TCP-6	PHASE III
TCP-7	WORK ZONE WARNING DETAIL SHEET
PM-1 THRU 5	FINAL PAVEMENT MARKING DETAIL DRAWINGS

WORK ZONE PAVEMENT MARKING SCHEDULE

PA - PAINT, 4" WHITE EDGELINE

PB - PAINT, 4" YELLOW EDGELINE

PD - PAINT, 4" X 2' WHITE MINSKIP LINE

PI - PAINT, 4" YELLOW DOUBLE CENTER LINE

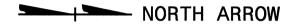
P4 - PAINT, 24" WHITE STOP BAR

MH - TEMPORARY RAISED PAVEMENT MARKER, YELLOW/YELLOW

LEGEND

GENERAL

→ DIRECTION OF TRAFFIC FLOW



— PROPOSED PVMT. ———— EXIST. PVMT.



WORK AREA



REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

T TYPE I BARRICADE

TYPE III BARRICADE

CONE

DRUM

FLASHING ARROW PANEL (TYPE C)

TYPE 'B' WARNING LIGHT

STATIONARY SIGN

1 PORTABLE SIGN

WARNING FLAGS

- CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

POLICE

■ FLAGGER

REVISIONS	NC 43 FROM B'S BBQ ROAD TO NC 11
	TRAFFIC CONTROL PLANS

DATE: JULY 15, 2008

PROJECT NO.: U-5018B

DESIGNED BY:

DESIGNED BY:

DRAWN BY:

AC/WA

DATE:

7/08

7/08

5018B\U5018_TC_psnl.dgr

PO Box 33127 RALEIGH, N.C. 27636 (919) 851-1912 (919) 851-1918 (FAX) WWW.MULKEYING.COM

TRAFFIC ENGINEER SEAL 14978

A) 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.

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

TIME RESTRICTIONS

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

ROAD NAME

DAY AND TIME RESTRICTIONS

1. NC 43

7:00 AM to 9:00 AM AND 4:00 PM TO 6:00 PM

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 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.
- E) 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.

- F) 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.
- G) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.
- H) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.

PAVEMENT EDGE DROP OFF REQUIREMENTS

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

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES 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.

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

SIGNING

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

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

- L) COVER OR REMOVE ALL DETOUR SIGNS WHEN A DETOUR IS NOT IN OPERATION.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

- N) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.
- O) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED. OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME

MARKING

MARKER

1. ALL ROADS

THERMOPLASTIC (UNLESS SHOWN

OTHERWISE)

PERMANENT RAISED

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

ROAD NAME

MARKING

MARKER

1. ALL ROADS

PAINT

TEMPORARY RAISED

- R) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING
- S) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.
- T) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

REVISIONS

NC 43 FROM B'S BBQ ROAD TO NC 11

TRAFFIC CONTROL PLANS

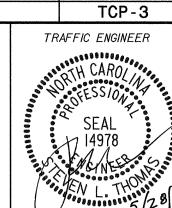
DATE: JULY 15, 2008 PROJECT NO.: U-5018B

_ DATE : __**7/08** DESIGNED BY : DATE : 7/08 AC/WA DRAWN BY: DATE : 7/08 CHECKED BY:

TRAFFIC CONTROL PHASING



PROJECT REFERENCE NO. SHEET NO.
U-5018B TCP-3



PHASE I (SEE TCP-4)
WHILE MAINTAINING TRAFFIC IN EXISTING PATTERNS CONTRACTOR SHALL:

STEP 1: ERECT WORKZONE ADVANCE WARNING SIGNS ON NC 43 AND ALL -Y-LINES IN ACCORDANCE WITH WORK ZONE ADVANCE WARNING SIGN DETAILS. (TCP-7)

STEP 2:
USING RDWY STD 1101.02 DRUMS, FLAGGERS AND FLAGGER SYMBOL
SIGNS AS DIRECTED BY THE ENGINEER, WHEN REQUIRED, CONTRACTOR
SHALL BEGIN CONSTRUCTION OF ALL DRAINAGE.

STEP 3:
USING RDWY STD 1101.02, DRUMS, FLAGGERS AND FLAGGER SYMBOL SIGNS AS DIRECTED BY THE ENGINEER, CONSTRUCT THE FOLLOWING EXCLUDING THE FINAL LAYER OF SURFACE COURSE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT:
-L- STA 62+50 +/- TO -L- STA 63+50 +/- RT
-L- STA 67+50 +/- TO -L- STA 82+00 +/- LT

STEP 4:
USING RDWY STD 1101.02, FLAGGER AND FLAGGER SYMBOL SIGNS AS
DIRECTED BY THE ENGINEER AND WHILE MAINTAINING TRAFFIC IN
EXISTING PATTERN CONTRACTOR SHALL BEGIN MILLING, RESURFACING
(UP TO FINAL LAYER OF SURFACE COURSE) AND MEDIAN CONSTRUCTION:
-L- STA 82+00 +/- TO -L- STA 145+84.09

PHASE IV

NOTE: STEP 1 & STEP 2 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.

STEP 1:
USING RDWY STD DRAWING 1101.02 SHEET 1
PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERNS
THROUGHOUT THE ENTIRE PROJECT.

STEP 2: TRANSISTION TRAFFIC TO FINAL PATTERN.

STEP 3:
USING RDWY STP 1101.02, DRUMS, FLAGGERS AND FLAGGER SYMBOL SIGNS AS DIRECTED BY THE ENGINEER, COMPLETE CONSTRUCTION UP TO THE FINAL LAYER OF SURFACE COURSE:
-L- STA 62+50 +/- TO -L- STA 145+84.09

STEP 4: PLACE FINAL THERMOPLASTIC PAVEMENT MARKINGS AND UNCOVER ALL PERMANENT SIGNS.

STEP 5:
REMOVE ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL
MEASURES AND OPEN TRAFFIC TO FINAL PATTERNS.

PHASE II (SEE TCP-5)

NOTE: STEP 1 & STEP 2 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.

STEP 1:
USING RDWY STD DRAWING 1101.02 SHEET 1
PLACE TEMPORARY PAVEMENT MARKINGS AS FOLLOWS:
-L- STA 62+50 +/- TO -L- STA 77+00 +/-

STEP 2: SHIFT NC 43 TRAFFIC FROM ITS EXISTING PATTERN ONTO TEMPORARY PATTERN.

STEP 3:
USING RDWY STD 1101.02, DRUMS, FLAGGERS AND FLAGGER
SYMBOL SIGNS AS DIRECTED BY THE ENGINEER, CONSTRUCT
THE FOLLOWING EXCLUDING THE FINAL LAYER OF SURFACE
COURSE:
-L- STA 63+50 +/- TO -L- STA 68+00 +/-

PHASE III (SEE TCP-6)

NOTE: STEP 1 & STEP 2 SHALL BE COMPLETED IN A CONTINUOUS OPERATION.

STEP 1:
USING RDWY STD DRAWING 1101.02 SHEET 1
PLACE TEMPORARY PAVEMENT MARKINGS AS FOLLOWS:
-L- STA 62+50 +/- TO -L- STA 87+40 +/-

STEP 2: SHIFT NC 43 TRAFFIC FROM ITS TEMPORARY PATTERN IN PHASE II ONTO THIS TEMPORARY PATTERN.

STEP 3:
USING RDWY STD 1101.02, DRUMS, FLAGGERS AND FLAGGER SYMBOL SIGNS AS DIRECTED BY THE ENGINEER, CONSTRUCT THE FOLLOWING EXCLUDING THE FINAL LAYER OF SURFACE COURSE:
-L- STA 64+00 +/- TO -L- STA 82+00 +/-

STEP 4: CONTRACTOR SHALL COMPLETE MILLING, RESURFACING (UP TO FINAL LAYER OF SURFACE COURSE) AND MEDIAN CONSTRUCTION: -L- STA 82+00 +/- TO -L- STA 145+84.09

NC 43 FROM B'S BBQ ROAD TO NC 11

DATE: JULY 15, 2008

DESIGNED BY:

DRAWN BY:

CHECKED BY:

GG

SLT

AC/WA

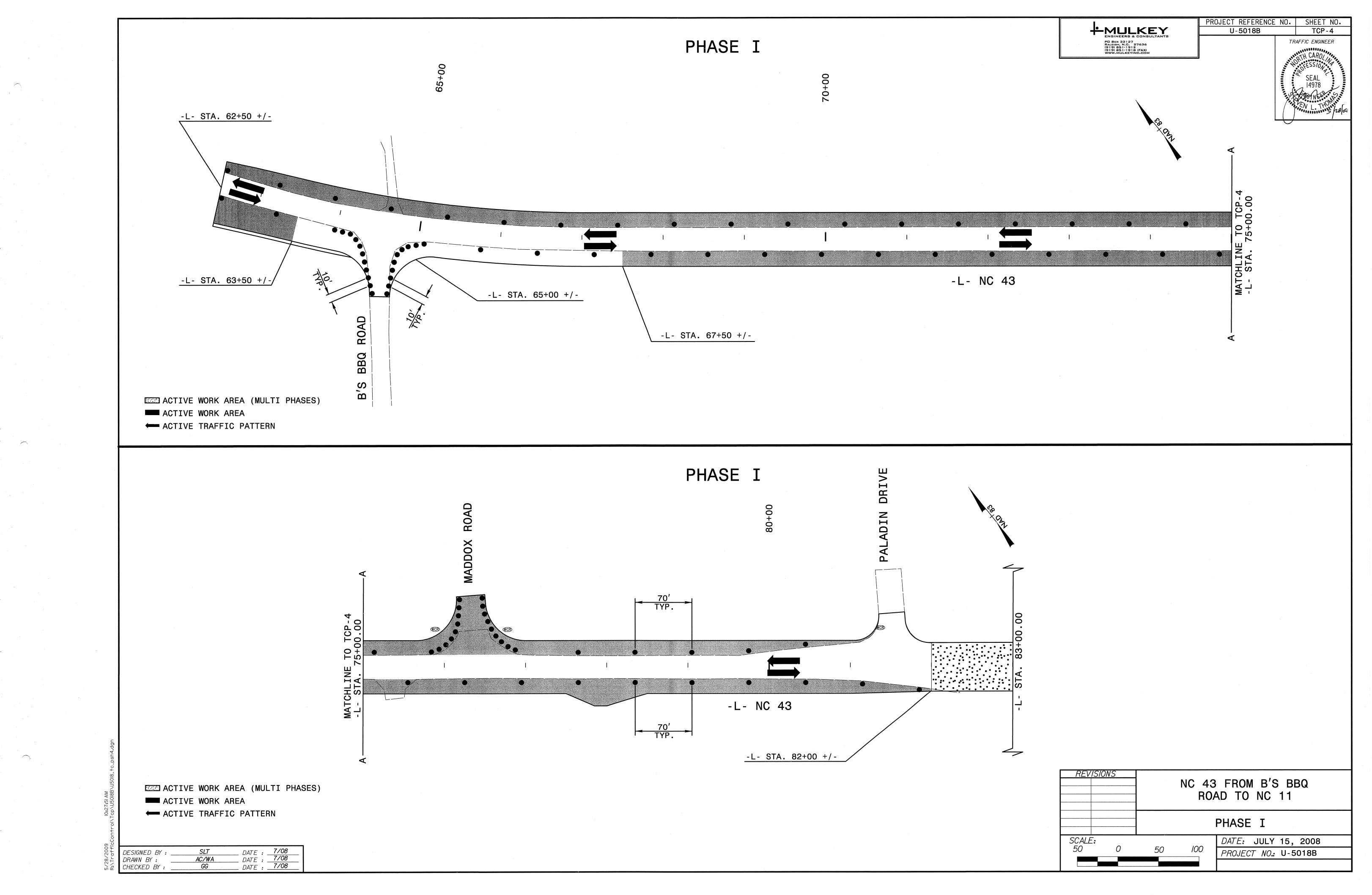
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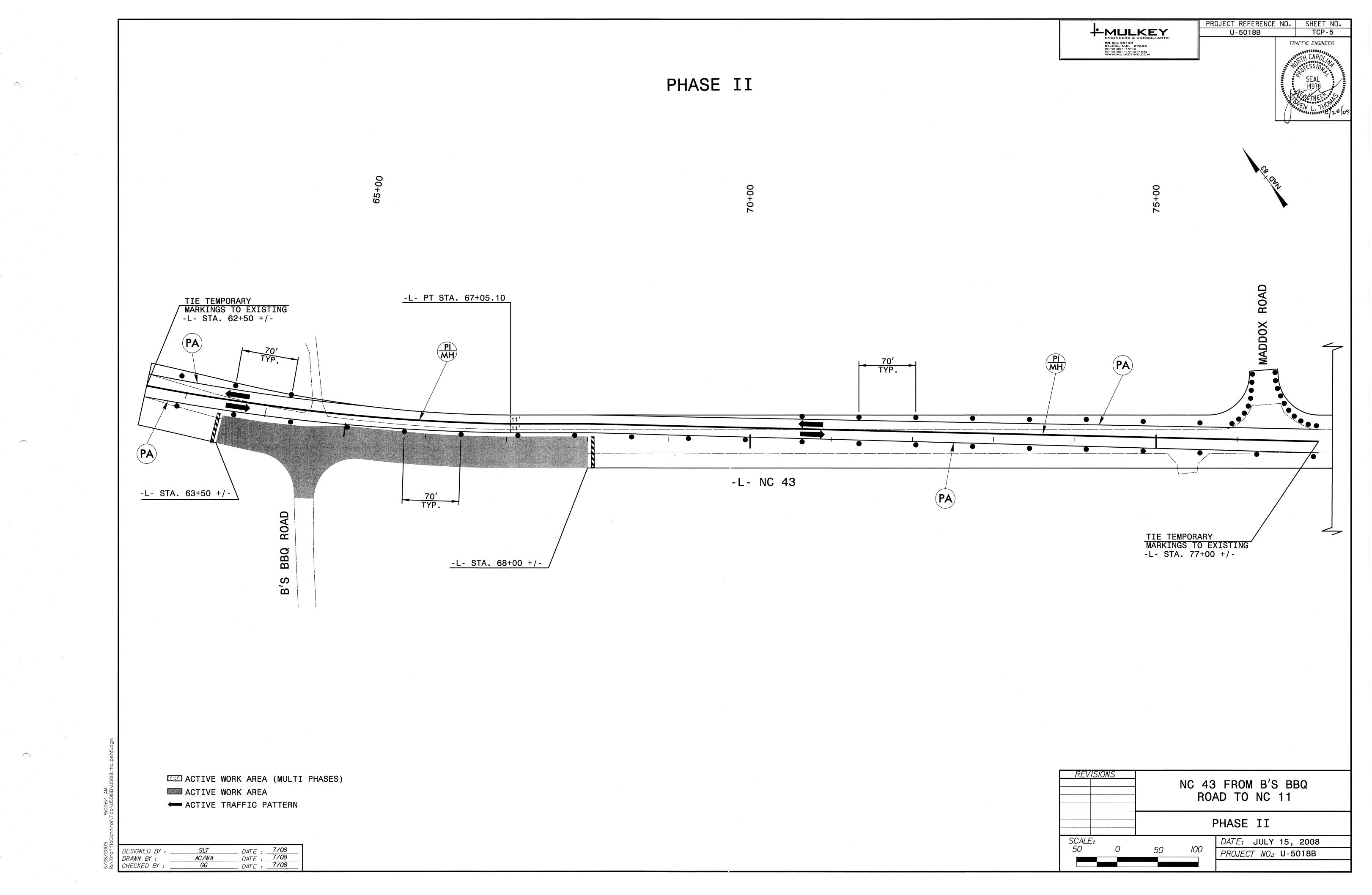
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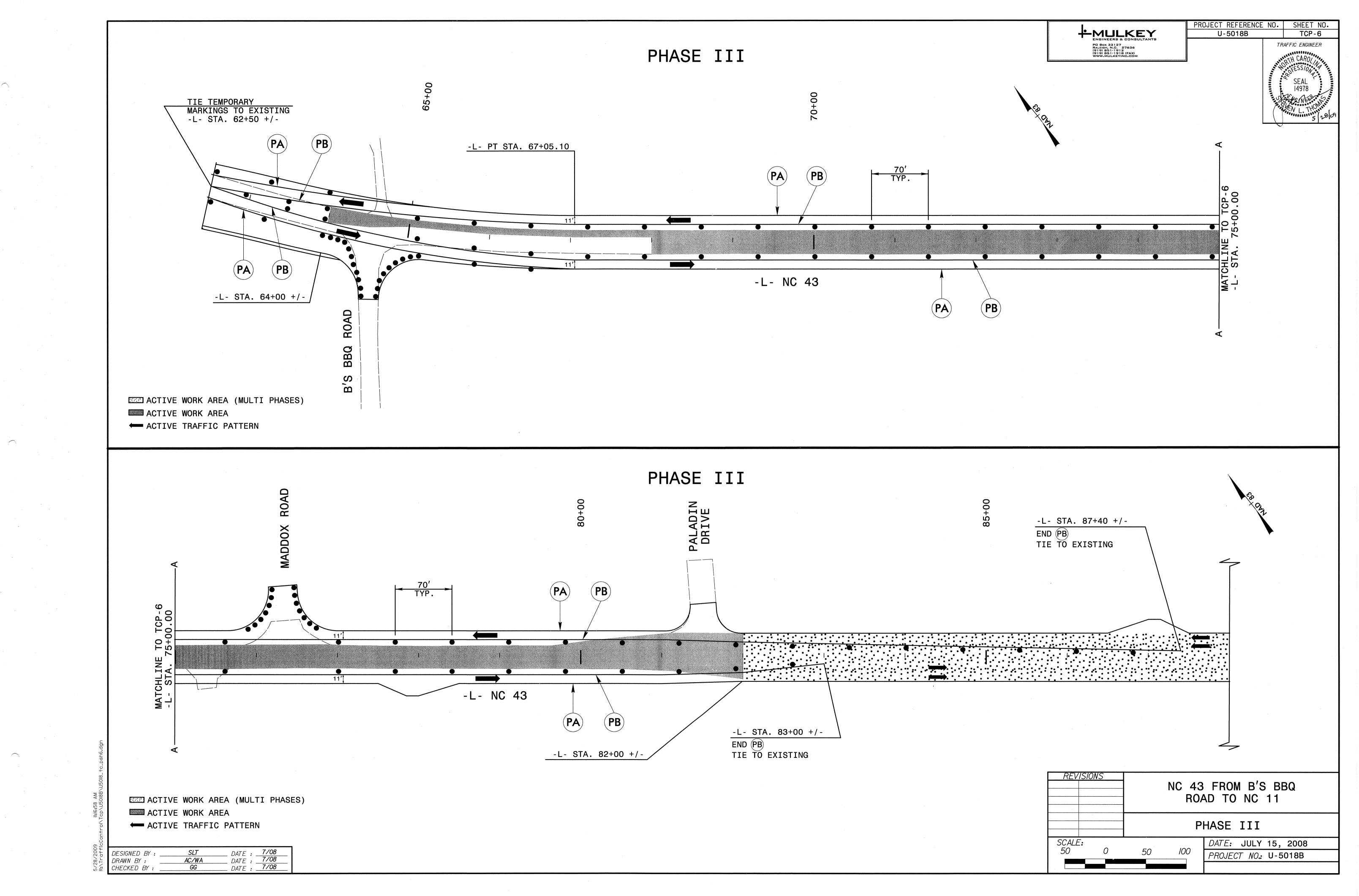
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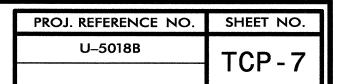
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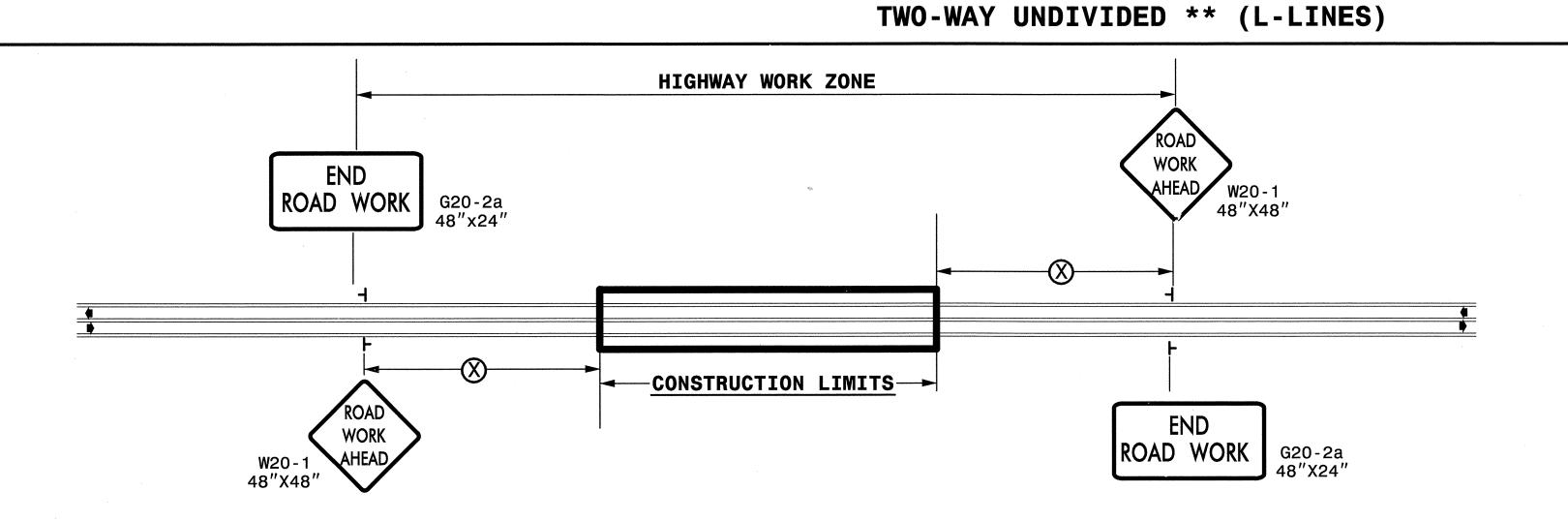
TRAFFIC CONTROL PLANS







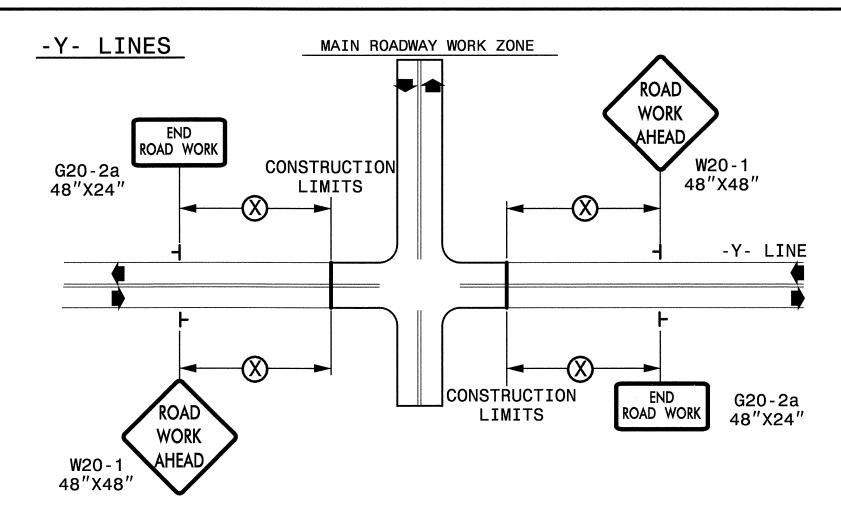




STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

IG FOR /IDED IG SIGNS

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



GENERAL NOTES

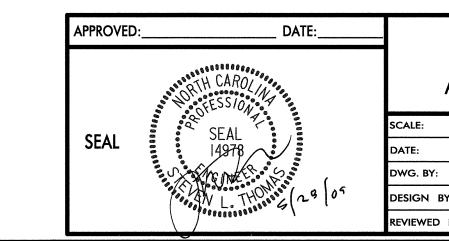
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, 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.

LEGEND

▲ DIRECTION OF TRAFFIC FLOW

├ STATIONARY SIGN

SHEET 1 OF 1



DETAIL	_ DRAV	VING	FOR	TWO-V	VAY
UNDIVID	ED A	ND UF	RBAN	FREE'	WAYS
ADVANCED	WORK	ZONE	WAF	RNING	SIGNS

NONE	, EHC
JULY 15, 2008	2 4 1 0 0 1
WA	- A - A - A - A - A - A - A - A - A - A
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REVISIONS
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10-98 03/04
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