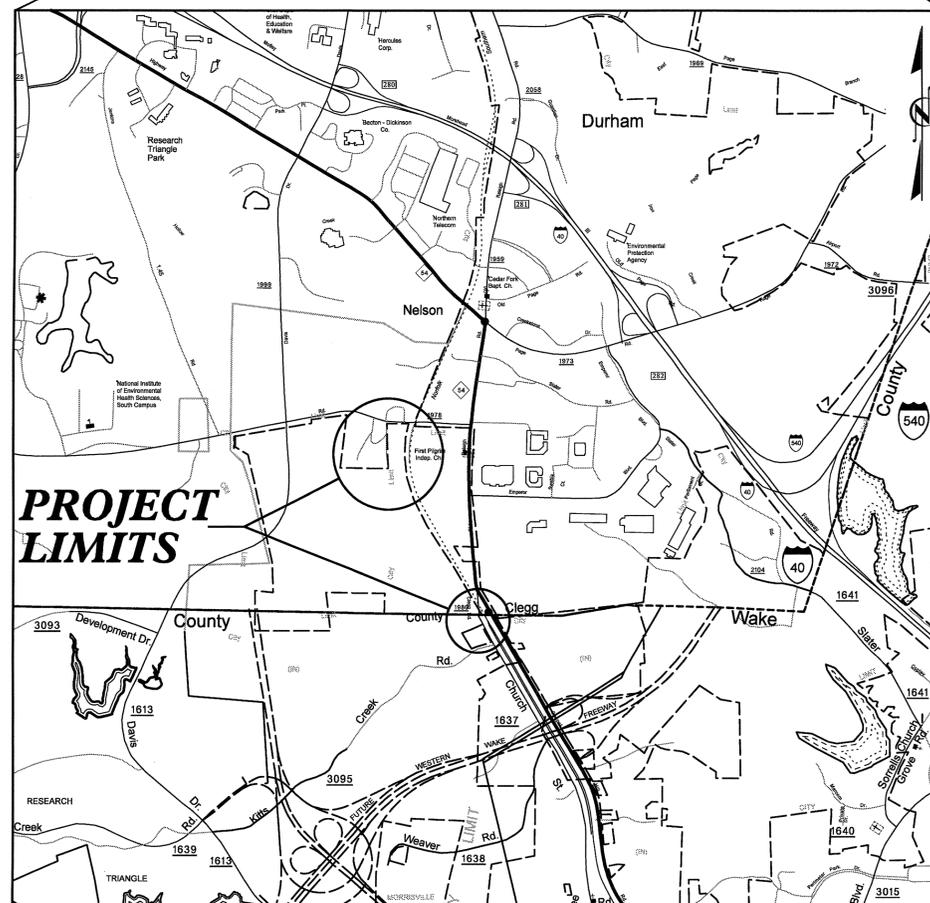
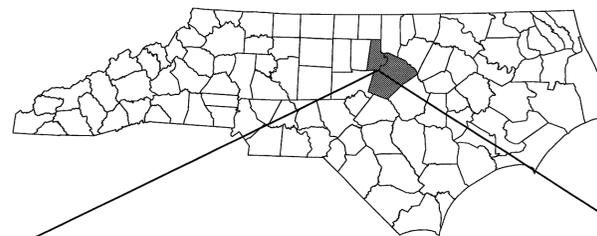


STATE OF NORTH CAROLINA
RAIL DIVISION

TRANSPORTATION MANAGEMENT PLAN

WAKE & DURHAM COUNTIES

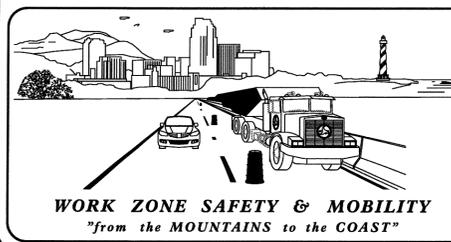


INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING
TMP-1B	TRANSPORTATION OPERATIONS PLAN: GENERAL NOTES
TMP-2	HOPSON RD DETOUR
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	PHASE I DETAIL
TMP-5 & 6	PHASE II DETAILS
TMP-7	PHASE III DETAIL

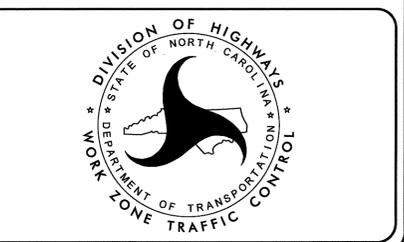
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

R. B. EARLY, PE TRAFFIC CONTROL PROJECT ENGINEER
R. B. EARLY, PE TRAFFIC CONTROL PROJECT DESIGN ENGINEER
J. A. PHILLIPS TRAFFIC CONTROL DESIGN ENGINEER



N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER
J. ISHAK, P.E. TRAFFIC CONTROL PROJECT ENGINEER
B. SHOENBAUER, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
 TRAFFIC CONTROL DESIGN ENGINEER



SEAL

APPROVED:
DATE: 7.31.12

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
023521
RIONDA B. EARLY

TIP PROJECT: U-4716B



ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 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
1101.04	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
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
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
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

LEGEND

GENERAL

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

- WORK AREA
- REMOVAL
- WEDGE / WIDEN (USING LANE CLOSURES)
- TEMPORARY PAVEMENT / GRADE

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
	4" PAINT
PA	WHITE EDGELINE
PD	2 FT - 6 FT / SP WHITE MINISKIP
PE	WHITE SOLID LANE LINE
PF	10 FT YELLOW SKIP
PH	YELLOW SINGLE CENTER
PI	YELLOW DOUBLE CENTER
	24" PAINT
P4	STOP BAR

SYSTEMS DESIGN CONSULTANTS, INC. PROJECT NO. 0371DEL_P17-18

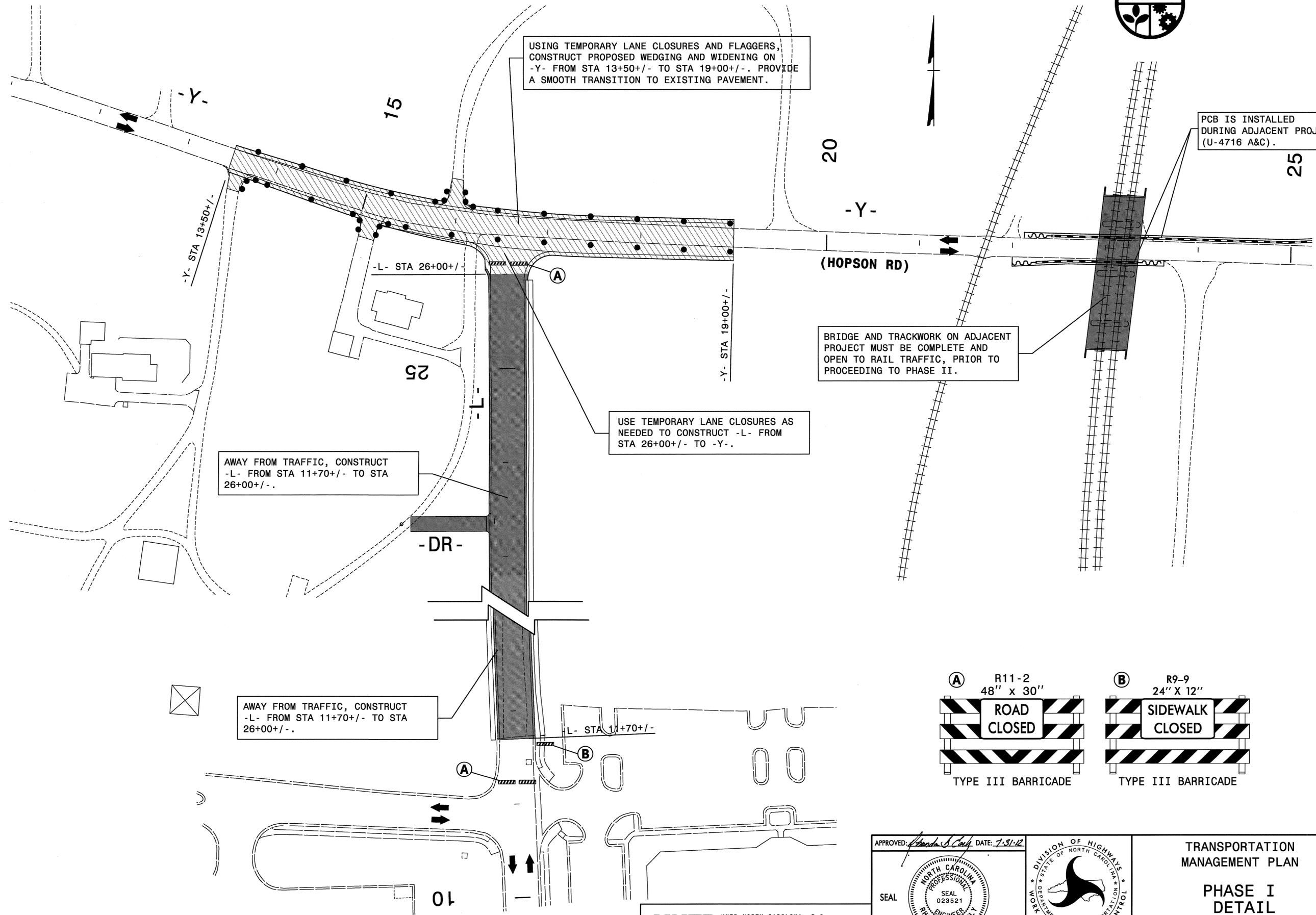
APPROVED: *[Signature]* DATE: 7-31-12

SEAL

TRANSPORTATION MANAGEMENT PLAN

ROADWAY STANDARD DRAWINGS & LEGENDS

HNTB HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554



USING TEMPORARY LANE CLOSURES AND FLAGGERS, CONSTRUCT PROPOSED WEDGING AND WIDENING ON -Y- FROM STA 13+50+/- TO STA 19+00+/- . PROVIDE A SMOOTH TRANSITION TO EXISTING PAVEMENT.

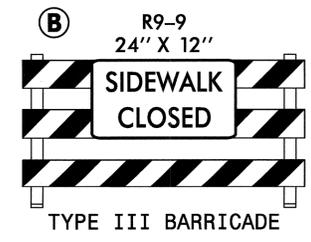
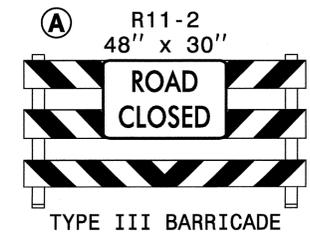
PCB IS INSTALLED DURING ADJACENT PROJECT (U-4716 A&C).

BRIDGE AND TRACKWORK ON ADJACENT PROJECT MUST BE COMPLETE AND OPEN TO RAIL TRAFFIC, PRIOR TO PROCEEDING TO PHASE II.

USE TEMPORARY LANE CLOSURES AS NEEDED TO CONSTRUCT -L- FROM STA 26+00+/- TO -Y- .

AWAY FROM TRAFFIC, CONSTRUCT -L- FROM STA 11+70+/- TO STA 26+00+/- .

AWAY FROM TRAFFIC, CONSTRUCT -L- FROM STA 11+70+/- TO STA 26+00+/- .



SYSTEM: \$\$\$\$\$\$
DATE: \$\$\$\$\$\$
USER: \$\$\$\$\$\$

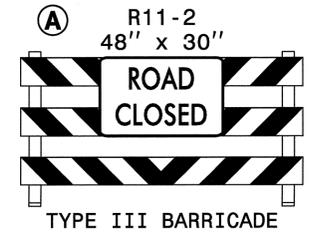
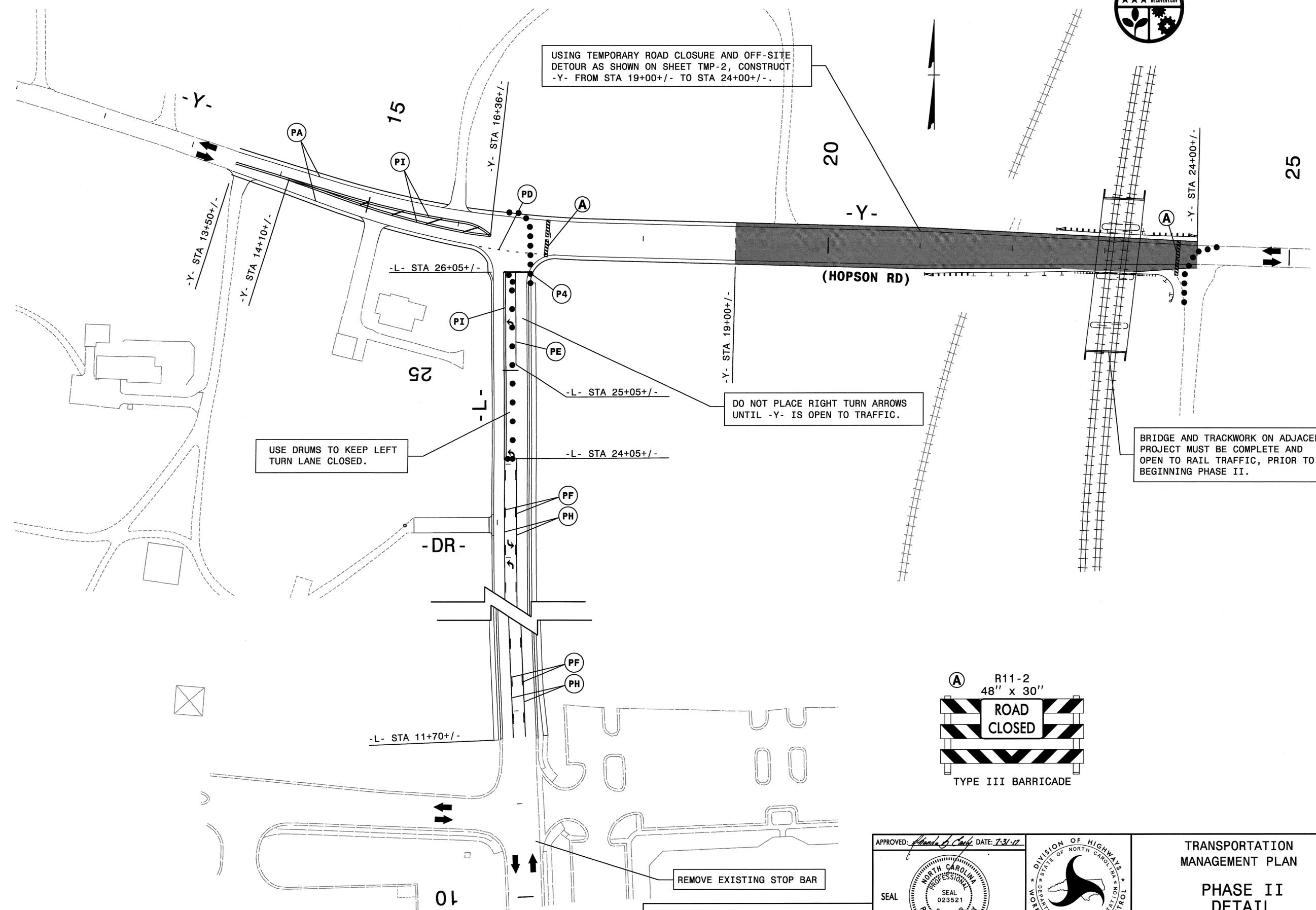
HNTB HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C-1554

APPROVED: *Phonda B. Early* DATE: 7.31.12



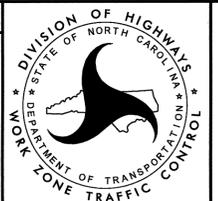
TRANSPORTATION
MANAGEMENT PLAN

PHASE I
DETAIL



APPROVED: *Alvin B. Early* DATE: 7-31-17

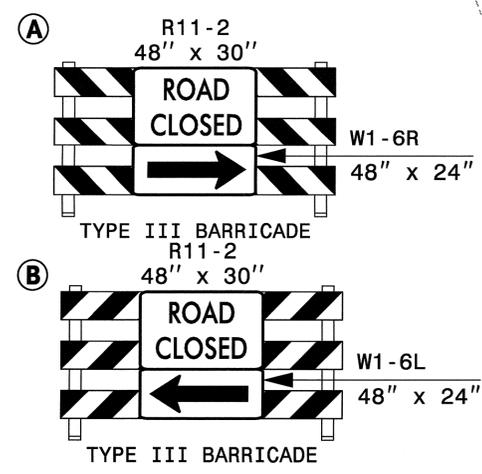
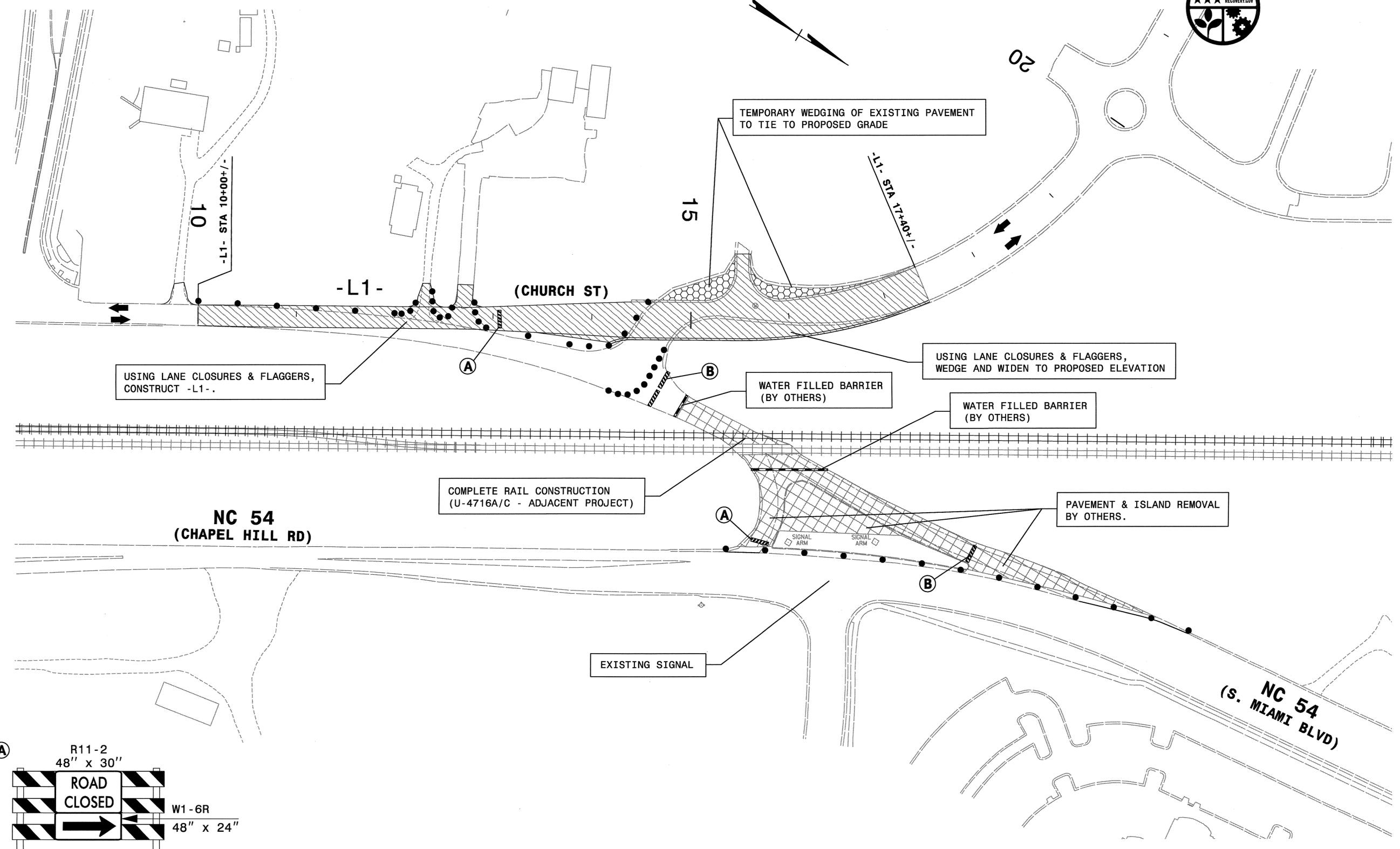
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 023521
ALVIN B. EARLY



TRANSPORTATION MANAGEMENT PLAN
PHASE II
DETAIL

HNTB
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

SYSTEMS DESIGN
SUBSERVANCE



SYSTEMS DESIGN
 CONSULTING
 INC.
 1000 S. RAVENHURST
 RALEIGH, NC 27609
 TEL: 919.488.8888
 FAX: 919.488.8889
 WWW.SDCON.COM

APPROVED: *[Signature]* DATE: 7-31-12



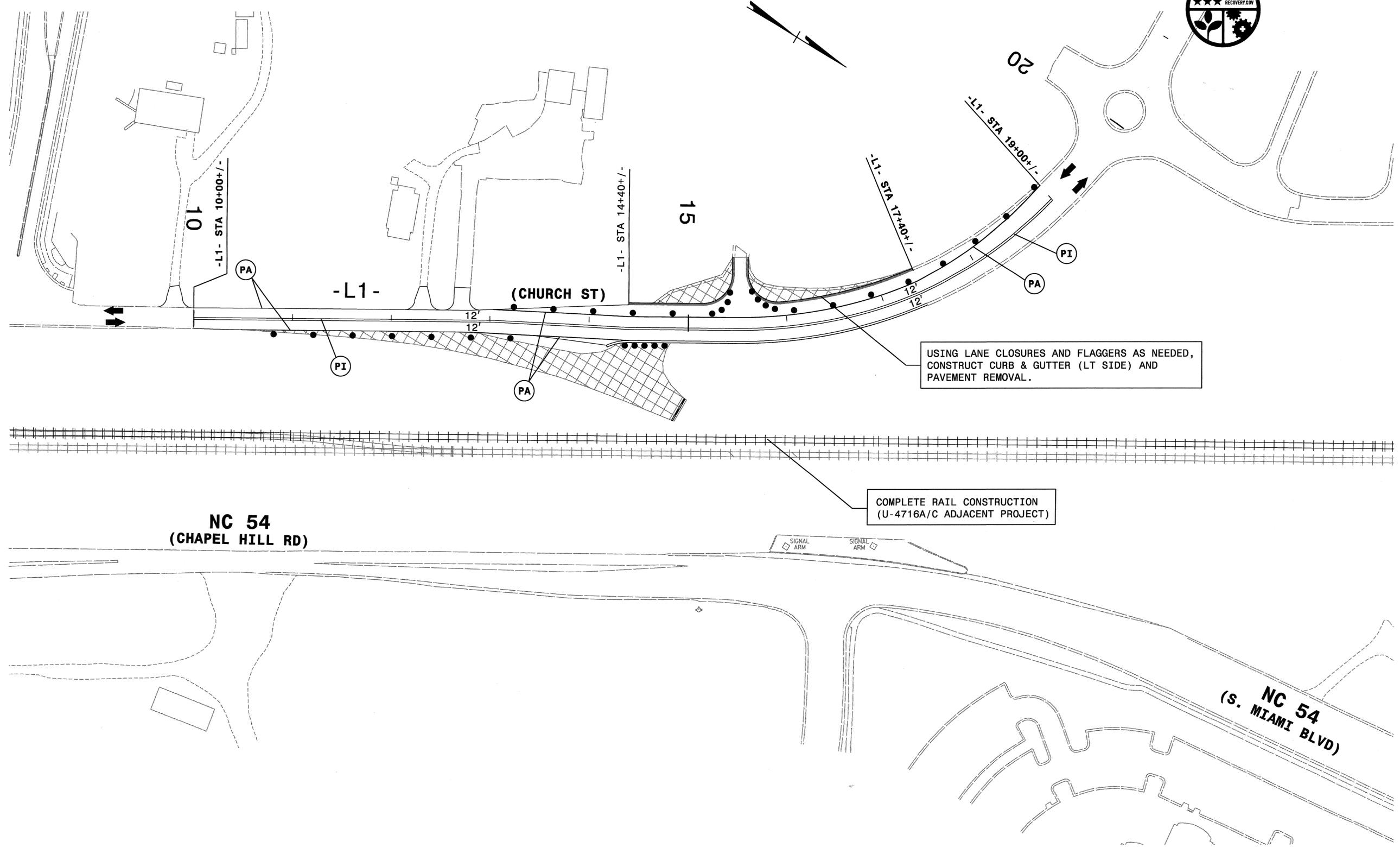
TRANSPORTATION
MANAGEMENT PLAN

PHASE II
DETAIL

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. SIX FORKS ROAD, SUITE 200
 RALEIGH, NORTH CAROLINA 27609
 NC LICENSE NO: C-1554



0371DEL_P17-18



USING LANE CLOSURES AND FLAGGERS AS NEEDED, CONSTRUCT CURB & GUTTER (LT SIDE) AND PAVEMENT REMOVAL.

COMPLETE RAIL CONSTRUCTION (U-4716A/C ADJACENT PROJECT)

**NC 54
(CHAPEL HILL RD)**

**NC 54
(S. MIAMI BLVD)**

SYSTEM: \$\$\$\$\$\$
 USER: \$\$\$\$\$\$
 USERNAME: \$\$\$\$\$\$
 PLOT DATE: \$\$\$\$\$\$
 PLOT TIME: \$\$\$\$\$\$

HNTB
 HNTB NORTH CAROLINA, P.C.
 343 E. SIX FORKS ROAD, SUITE 200
 RALEIGH, NORTH CAROLINA 27609
 NC LICENSE NO: C-1554

APPROVED: *March 2, 2012* DATE: 2-21-12
 SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 023521
 WYONDA B. EARLY



TRANSPORTATION MANAGEMENT PLAN
 PHASE III
 DETAIL