

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED TRAFFIC CONTROL

DURHAM COUNTY

U-3309A

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"- PROJECT SERVICES UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY 18, 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
1101.04	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	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - INTERCHANGES
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS (TEMPORARY)

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND INDEX OF SHEETS
TCP-2, 2A	GENERAL NOTES
TCP-3,3A,3B,3C	TRAFFIC CONTROL PLAN PHASING
TCP-4	TEMPORARY PAVEMENT MARKING SCHEDULE
TCP-5	WORK ZONE ADVANCE WARNING SIGNS
TCP-5A	TYPICAL RAMP CLOSURE DETAIL DRAWING
TCP-5B	LANE CLOSURE SWITCHES DETAIL DRAWING
TCP-6	PHASE I OVERVIEW
TCP 6A-6F	PHASE I DETAIL SHEETS
TCP-7	PHASE II OVERVIEW
TCP 7A-7F	PHASE II DETAIL SHEETS
TCP-8	PHASE III OVERVIEW
TCP 8A-8F	PHASE III DETAIL SHEETS

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
 - TYPE II BARRICADE
 - TYPE III BARRICADE
 - CONE
 - DRUM SKINNY DRUM
 - FLASHING ARROW PANEL (TYPE C)
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - CRASH CUSHION
 - CHANGEABLE MESSAGE SIGN
 - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - POLICE
 - FLAGGER
- PAVEMENT MARKINGS**
- YELLOW/YELLOW RAISED TEMPORARY PAVEMENT MARKER
 - CRYSTAL/RED RAISED TEMPORARY PAVEMENT MARKER
 - PAVEMENT MARKING SYMBOLS
 - ONLY PAVEMENT MARKING ALPHANUMERIC CHARACTERS

- ABBREVIATIONS**
- EEQEP - EDGE & ELEVATION OF EXISTING PAVEMENT
 - EOP - EDGE OF PAVEMENT
 - STD - ROADWAY STANDARD DRAWING

TIP PROJECT:

6/23/2009
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gkarageorge

N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT LIST OF CONTACTS	
<u>J. S. BOURNE, P.E.</u>	TRAFFIC CONTROL ENGINEER
<u>JOSEPH ISHAK, P.E.</u>	TRAFFIC CONTROL PROJECT ENGINEER

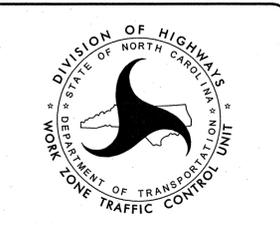
Stantec Consulting
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com

APPROVED: Betsy L. Watson
DATE: June 23, 2009

Prepared in the Office of:
STANTEC CONSULTING SERVICES, INC.

Betsy L. Watson, P.E. TRAFFIC ENGINEER

George Karageorge TRANSPORTATION DESIGNER



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.

LANE CLOSURE TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS	6:00 A.M.-9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M.-7:00 P.M. MONDAY THRU FRIDAY

B) DO NOT CLOSE OR NARROW TRAVEL LANES ON ANY ROAD FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
RAMPS 'A' & 'C' AT NC 147/ALEXANDER DR. INTERCHANGE	6:00 A.M. MONDAY THRU 9:00 P.M. FRIDAY

D) DO NOT CONDUCT SINGLE OR MULTI-VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM RAMPS WILL NOT BE ALLOWED:

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS	6:00 A.M.-9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M.-7:00 P.M. MONDAY THRU FRIDAY

E) 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

F) 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.

G) 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.

H) 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.

I) 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.

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.

K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE PER DIRECTION OF TRAVEL.

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

TRAFFIC PATTERN ALTERATIONS

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

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.

SIGNING

P) 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.

Q) PROVIDE PERMANENT SIGNING.

R) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

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

TRAFFIC CONTROL DEVICES

T) 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. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

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

V) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS, CONES OR SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT. MAX CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

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 <p>Stantec Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919.851.8888 Fax. 919.851.7024 www.stantec.com</p>	<p>APPROVED: <i>[Signature]</i> DATE: 8/14/09</p> 	<h2 style="margin: 0;">GENERAL NOTES</h2>						
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GENERAL NOTES

PAVEMENT MARKINGS AND MARKERS

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

ROAD	MARKING	MARKER
ALEXANDER DR.	PAINT	RAISED
CORNWALLIS RD.	PAINT	RAISED
RAMPS A & C	PAINT	RAISED
Y LINES /DRIVEWAYS	PAINT	NONE

X) 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.

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

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

AA) TRACE THE EXISTING MONOLITHIC ISLAND LOCATIONS WITH THE PROPER COLOR PAVEMENT MARKING PRIOR TO REMOVAL. PLACE DRUMS TO DELINEATE REMOVED MONOLITHIC ISLANDS. REFER TO RSD. 1205.09 SHEET 1 FOR PAINTED ISLANDS.

TEMPORARY / FINAL SIGNALS

BB) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

MISCELLANEOUS

CC) LAW ENFORCEMENT OFFICERS 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 DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 500 FT IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

EE) ALL SIGN AND PAVEMENT MARKING DIMENSIONS SHOWN IN THE TRAFFIC CONTROL PLAN ARE APPROXIMATE (+/-).

FF) ALL TEMPORARY TRAVEL LANES ARE MARKED USING PAINT PAVEMENT MARKING AND ARE 12' WIDE UNLESS OTHERWISE DIMENSIONED IN THE TRAFFIC CONTROL PLAN.

GG) FURNISH, INSTALL, MAINTAIN, RELOCATE AND REMOVE CHANGEABLE MESSAGE SIGNS DURING VARIOUS STAGES OF CONSTRUCTION AT THE DISCRETION OF THE ENGINEER TO ADEQUATELY INFORM MOTORISTS OF CHANGING WORK ZONE CONDITIONS.

HH) PLACE ALL CHANGEABLE MESSAGE SIGNS AS NEEDED IN THE LOCATIONS AND WITH THE WORD MESSAGES AS SHOWN IN THE TCP OR AS DIRECTED BY THE ENGINEER TO PROVIDE ADVANCE WARNING TO THE PUBLIC DURING CONSTRUCTION.

II) COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

JJ) MAINTAIN EXISTING GUARDRAIL UNTIL PROPOSED FILL SLOPES ARE COMPLETED TO THE POINT THAT FIELD CONDITIONS NO LONGER MEET GUARDRAIL WARRANTS AS DESCRIBED IN THE NCDOT ROADWAY DESIGN MANUAL OR AS DIRECTED BY THE ENGINEER.

KK) MAINTAIN PEDESTRIAN TRAFFIC AT ALL TIMES. PROVIDE SAFE PASSAGE AND REFUGE AREAS AS NEEDED AND AS DIRECTED BY THE ENGINEER.

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PHASE I

NOTE: ALL PROPOSED PAVEMENT CONSTRUCTION IN THIS PHASE EXCLUDES THE FINAL LAYER OF SURFACE COURSE. THE FINAL LAYER OF SURFACE COURSE IS PLACED IN PHASE IV.

STEP 1: (TCP-5)

INSTALL WORK ZONE ADVANCE WARNING SIGNS ON PROJECT.

STEP 2: (TCP 6, 6A-6F)

FOR THE WORK REQUIRED IN STEP 2 USE THE FOLLOWING TYPE OF TEMPORARY LANE CLOSURES AS NECESSARY:

ALEXANDER DR. WESTBOUND - USE STD. 1101.02 SHEET 3 OF 9 OR LANE CLOSURE SWITCHES SHEET TCP-5B.

ALEXANDER DR. EASTBOUND - USE DRUMS TO MAINTAIN LANES CLOSED BEFORE THEY DEVELOP OR STD.1101.02 SHEET 1 OF 9.

CORNWALLIS RD. - USE DRUMS TO MAINTAIN LANES CLOSED BEFORE THEY DEVELOP OR STD.1101.02 SHEET 1 OF 9.

RETURN TRAFFIC TO THE EXISTING PATTERN BY THE END OF EACH WORK DAY.

PEDESTRIAN TRAFFIC IS TO BE MAINTAINED IN ITS EXISTING PATTERN AT ALL TIMES, EXCEPT WHERE OTHERWISE NOTED.

CONSTRUCT NEW TRAFFIC SIGNAL AT Y3. PLACE PAVEMENT MARKINGS AND ACTIVATE FOR TEMPORARY CONFIGURATION (TCP-6C).

BEGIN TRAFFIC SIGNAL UPGRADES AT CORNWALLIS RD., MOORE DR.(Y6), RAMP A AND RAMP C.

BAG HEADS AS APPROPRIATE.

CONSTRUCT PEDESTRIAN TRAILS PEDTR1, PEDTR2 AND PAVED SIDEWALK ALONG CORNWALLIS RD.(-Y1) RIGHT SIDE. SWITCH PEDESTRIAN TRAVEL TO NEW TRAILS/SIDEWALK AND CLOSE EXISTING PORTIONS THAT WILL NO LONGER BE USED.

CONSTRUCT PAVEMENT WIDENING ALEXANDER DR. (L) STA. 63+50 - 72+80 RIGHT SIDE UP TO THE EDGE & ELEVATION OF EXISTING PAVEMENT TO BE USED AS TEMPORARY PEDESTRIAN TRAIL. UPON COMPLETION, CLOSE THE EXISTING PEDESTRIAN TRAIL ON THE LEFT SIDE OF ALEXANDER DR. BETWEEN Y4 & RAMP A, AND DETOUR PEDESTRIANS TO THE RIGHT SIDE OF ALEXANDER DR. IN THIS AREA. WITH PEDESTRIAN TRAFFIC DETOURED TO THE RIGHT SIDE OF ALEXANDER DR., CONSTRUCT LEFT SIDE PAVEMENT WIDENING UP TO THE EDGE & ELEVATION OF EXISTING PAVEMENT AND PROPOSED PAVED SIDEWALK BETWEEN MOORE DR.(Y6) AND RAMP 'A'. UPON COMPLETION REMOVE BARRICADES AND OPEN PAVED SIDEWALK TO PEDESTRIANS.

REMOVE PREVIOUSLY PLACED CROSSWALK MARKINGS ACROSS ALEXANDER DR. AND PED XING SIGNS (W11-2).

CONSTRUCT WIDENING OF RAMP 'A' AND RAMP 'C' UP TO THE EDGE & ELEVATION OF EXISTING PAVEMENT.

USE WEEKEND RAMP CLOSURES DURING ALL CONSTRUCTION OPERATIONS OF RAMPS 'A' & 'C'. (REFER TO TCP-5A FOR TYPICAL RAMP CLOSURE AND DETOUR AND TCP-6E FOR PERIODS WHEN WORK IS NOT ACTIVE IN THIS AREA). DO NOT CLOSE RAMPS 'A' AND 'C' SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER.

WHEN REPLACING THE EXISTING GUARDRAIL AT RAMP 'A' PROCEED IN A CONTINUOUS OPERATION OF REMOVING THE EXISTING GUARDRAIL AND INSTALLING THE NEW GUARDRAIL.

WHEN RAMP CLOSURES ARE NOT IN EFFECT MAINTAIN WIDENING CLOSED USING DRUMS.

BEGIN PROPOSED WIDENING AS FOLLOWS:

ALEXANDER DR. (L), AND -Y-LINES Y3, Y4, Y6

- STA. 18+50 - 62+65 LEFT SIDE
- STA. 69+00 - 72+80 LEFT SIDE
- STA. 18+50 - 33+50 RIGHT SIDE
- STA. 41+00 - 51+00 RIGHT SIDE

CORNWALLIS RD.

- STA. 13+00(Y1) - 18+50(Y2) LEFT & RIGHT SIDES

CONSTRUCT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS MUCH AS POSSIBLE AWAY FROM EXISTING TRAFFIC.

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PHASE II

NOTE: ALL PROPOSED PAVEMENT CONSTRUCTION IN THIS PHASE EXCLUDES THE FINAL LAYER OF SURFACE COURSE. THE FINAL LAYER OF SURFACE COURSE IS PLACED IN PHASE IV.

STEP 1: (TCP 7, 7A-7F)

INSTALL BARRICADES AND SIGNS CLOSING Y4. TRAFFIC IS DETOURED VIA Y3. BEGIN CONSTRUCTION OF Y4. (TCP-7, 7B)

STEP 2: (TCP 7, 7A-7F)

FOR THE WORK REQUIRED IN STEP 2 USE THE FOLLOWING TYPE OF TEMPORARY LANE CLOSURES AS NECESSARY:

ALEXANDER DR. WESTBOUND - USE STD 1101.02 SHEET 3 OF 9 OR LANE CLOSURE SWITCHES SHEET TCP-5B.

ALEXANDER DR. EASTBOUND - USE DRUMS TO MAINTAIN LANES CLOSED BEFORE THEY DEVELOP OR STD 1101.02 SHEET 1 OF 9.

CORNWALLIS RD. - USE DRUMS TO MAINTAIN LANES CLOSED BEFORE THEY DEVELOP OR STD 1101.02 SHEET 1 OF 9.

RETURN TRAFFIC TO THE EXISTING PATTERN BY THE END OF EACH WORK DAY.

MAINTAIN PEDESTRIAN TRAFFIC AT ALL TIMES.

COMPLETE PROPOSED WIDENING AS FOLLOWS:

ALEXANDER DR. (L) STA. 18+50 - 72+80 LEFT & RIGHT SIDES

CORNWALLIS RD. STA. 13+00(Y1) - 18+50(Y2) LEFT & RIGHT SIDES

CONSTRUCT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS MUCH AS POSSIBLE AWAY FROM EXISTING TRAFFIC.

REMOVE EXISTING CONCRETE MEDIAN ISLANDS ON ALEXANDER DR. (L) BETWEEN STA. 19+50 & 33+50 AND ON CORNWALLIS RD. (Y1) BETWEEN STA. 20+00 & 22+75, AND CONSTRUCT FULL DEPTH ASPHALT PAVEMENT REPAIR.

REMOVE EXISTING MEDIAN CURBS AND CONSTRUCT MEDIAN UP TO THE EDGE & ELEVATION OF EXISTING PAVEMENT ON ALEXANDER DR. (L) BETWEEN STA. 55+00 - 62+65 & STA. 63+70 - 72+90.

MILL EXISTING ALEXANDER DR. (L) PAVEMENT AND REPLACE WITH NEW ASPHALT PAVEMENT. REPLACE EXISTING PAVEMENT MARKINGS WITH PAINT.

COMPLETE RAMPS A & C WIDENING AND EMBANKMENTS. PAVE THE FIRST LAYER OF SURFACE COURSE OVER THE WIDENING AND EXISTING PAVEMENT. COMPLETE TRAFFIC SIGNAL UPGRADES AT RAMPS 'A' & 'C'. PLACE TEMPORARY PAVEMENT MARKINGS ON RAMPS 'A' & 'C' AND OPEN TO THE NEW TRAFFIC PATTERN. USE RAMP CLOSURES DURING ALL CONSTRUCTION OPERATIONS OF RAMPS 'A' & 'C'. (REFER TO TCP-5A FOR TYPICAL RAMP CLOSURE AND DETOUR).

COMPLETE TEMPORARY TRAFFIC SIGNALS AT CORNWALLIS RD., MOORE DR. (Y6), AND (Y3). BAG HEADS AS APPROPRIATE.

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PHASE III

NOTE: ALL PROPOSED PAVEMENT CONSTRUCTION IN THIS PHASE EXCLUDES THE FINAL LAYER OF SURFACE COURSE. THE FINAL LAYER OF SURFACE COURSE IS PLACED IN PHASE IV.

INTERMEDIATE CONTRACT TIME SPECIAL PROVISION

COMPLETE THE WORK REQUIRED OF PHASE III STEPS 1A, 1B, 1C, 1D AND 1E IN A CONTINUOUS OPERATION WITHIN A TIME PERIOD OF ONE WEEKEND BETWEEN THE HOURS OF 7:00 P.M. FRIDAY TO 6:00 A.M. MONDAY.

STEP 1: (TCP 8, 8A-8F)

IN A CONTINUOUS OPERATION SHIFT ALEXANDER DR. AND CORNWALLIS RD. TRAFFIC TO PROPOSED OUTSIDE WIDENING AS FOLLOWS:

1A) INSTALL LEFT LANE CLOSURE ON ALEXANDER DR. WESTBOUND PER LANE CLOSURE SWITCHES STANDARD DETAIL DRAWING SHEET TCP-5B (INITIAL CLOSURE-RIGHT LANE WORK AREA).

USING DRUMS CLOSE THE OUTSIDE LANES OF ALEXANDER DR. EASTBOUND DIRECTION & CORNWALLIS RD..

1B) PAVE/WEDGE OUTSIDE THRU LANE & RIGHT TURN LANES FOR BOTH DIRECTIONS OF ALEXANDER DR. & CORNWALLIS RD.. PLACE TEMPORARY PAVEMENT MARKINGS BEHIND THE LANE CLOSURE.

1C) SHIFT TRAFFIC CONTROL DEVICES AND DIRECT ALEXANDER DR./CORNWALLIS RD. TRAFFIC TO OUTSIDE THRU LANE FOR BOTH DIRECTIONS AS FOLLOWS:

FOR ALEXANDER DR. WESTBOUND DIRECTION SHIFT DEVICES PER LANE CLOSURE SWITCHES STANDARD DETAIL DRAWING SHEET TCP-5B (CLOSURE SWITCH-LEFT LANE WORK AREA).

FOR ALEXANDER DR. EASTBOUND DIRECTION AND CORNWALLIS RD. SHIFT DRUMS DIRECTING TRAFFIC TO OUTSIDE LANES.

1D) PAVE/WEDGE REMAINING INSIDE THRU LANE, LEFT TURN LANES AND 5' BUFFER FOR BOTH DIRECTIONS OF ALEXANDER DR. & CORNWALLIS RD.. COMPLETE REMAINDER OF TEMPORARY PAVEMENT MARKINGS.

1E) REMOVE LANE CLOSURE DEVICES AND OPEN ALEXANDER DR. & CORNWALLIS RD. TRAFFIC TO PHASE III PATTERN SHOWN ON SHEET TCP 8A-8F.

STEP 2: (TCP 8, 8A-8F)

CONSTRUCT ALL REMAINING MEDIAN DRAINAGE ITEMS, CURB AND GUTTER AND MEDIAN PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ALONG ENTIRE LENGTH OF PROJECT.

COMPLETE CONSTRUCTION OF Y4 AND MAINTAIN CLOSED.

CONSTRUCT ALL KEYED-IN MONOLITHIC ISLANDS.

COMPLETE TRAFFIC SIGNAL WORK IN PREPARATION FOR FINAL PATTERN. BAG HEADS AS APPROPRIATE.

COMPLETE ALL REMAINING WORK ON PROJECT IN PREPARATION FOR PAVING THE FINAL LAYER OF SURFACE COURSE AND PLACEMENT OF FINAL PAVEMENT MARKINGS.

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 Stantec <small>Stantec Consulting Services Inc. Suite 300, 301 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6866 Fax: 919.851.7024 www.stantec.com</small>	APPROVED: <i>Betsy L. Watson</i> DATE: 6/23/09	TRAFFIC CONTROL PHASING PHASE III							
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE: NONE</td> <td rowspan="5" style="width: 50px;">REVISIONS</td> </tr> <tr> <td>DATE: MARCH 2009</td> </tr> <tr> <td>DWG. BY: GK</td> </tr> <tr> <td>DESIGN BY: GK</td> </tr> <tr> <td>REVIEWED BY: BLW</td> </tr> </table>		SCALE: NONE	REVISIONS	DATE: MARCH 2009	DWG. BY: GK	DESIGN BY: GK
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PHASE IV

UPON COMPLETION OF ALL OTHER CONSTRUCTION OPERATIONS PAVE THE FINAL LAYER OF SURFACE COURSE AND PLACE FINAL PAVEMENT MARKINGS LINES AND PAVEMENT MARKERS AS FOLLOWS:

REFER TO FINAL PAVEMENT MARKING PLAN.

FOR THE WORK REQUIRED IN PHASE IV USE THE FOLLOWING TYPE OF TEMPORARY LANE CLOSURES AS NECESSARY:

ALEXANDER DR. WESTBOUND - USE STD 1101.02 SHEET 3 OF 9 OR LANE CLOSURE SWITCHES SHEET TCP-5B.

ALEXANDER DR. EASTBOUND - USE DRUMS TO MAINTAIN LANES CLOSED BEFORE THEY DEVELOP OR STD 1101.02 SHEET 1 OF 9.

CORNWALLIS RD. - USE DRUMS TO MAINTAIN LANES CLOSED BEFORE THEY DEVELOP OR STD 1101.02 SHEET 1 OF 9.

STEP 1:

WITH TRAFFIC OPERATING ON THE OUTSIDE LANES OF ALEXANDER DR./CORNWALLIS RD. AS IN PHASE III PAVE THE FINAL LAYER OF SURFACE COURSE FOR THE INSIDE LANES AND LEFT TURN LANES. PLACE PAVEMENT MARKINGS THAT CAN BE PLACED AWAY FROM TRAFFIC.

STEP 2:

IN A CONTINUOUS OPERATION SHIFT ALEXANDER DR./CORNWALLIS RD. TRAFFIC TO THE INSIDE LANES AND PAVE THE FINAL LAYER OF SURFACE COURSE FOR THE OUTSIDE AND RIGHT TURN LANES AND -Y- LINES/DRIVEWAYS.

PAVE THE FINAL LAYER OF SURFACE COURSE FOR RAMPS 'A' & 'C'.

PLACE FINAL PAVEMENT MARKINGS AND MARKERS FOR THE OUTSIDE AND RIGHT TURN LANES AND RAMPS 'A' & 'C'.

STEP 3:

SHIFT TRAFFIC TO THE OUTSIDE LANES AND COMPLETE FINAL PAVEMENT MARKINGS AND MARKERS FOR THE INSIDE LANES.

STEP 4:

REMOVE TRAFFIC CONTROL DEVICES AND OPEN THE PROJECT TO THE PROPOSED TRAFFIC PATTERN AS SHOWN IN THE FINAL PAVEMENT MARKING PLAN.

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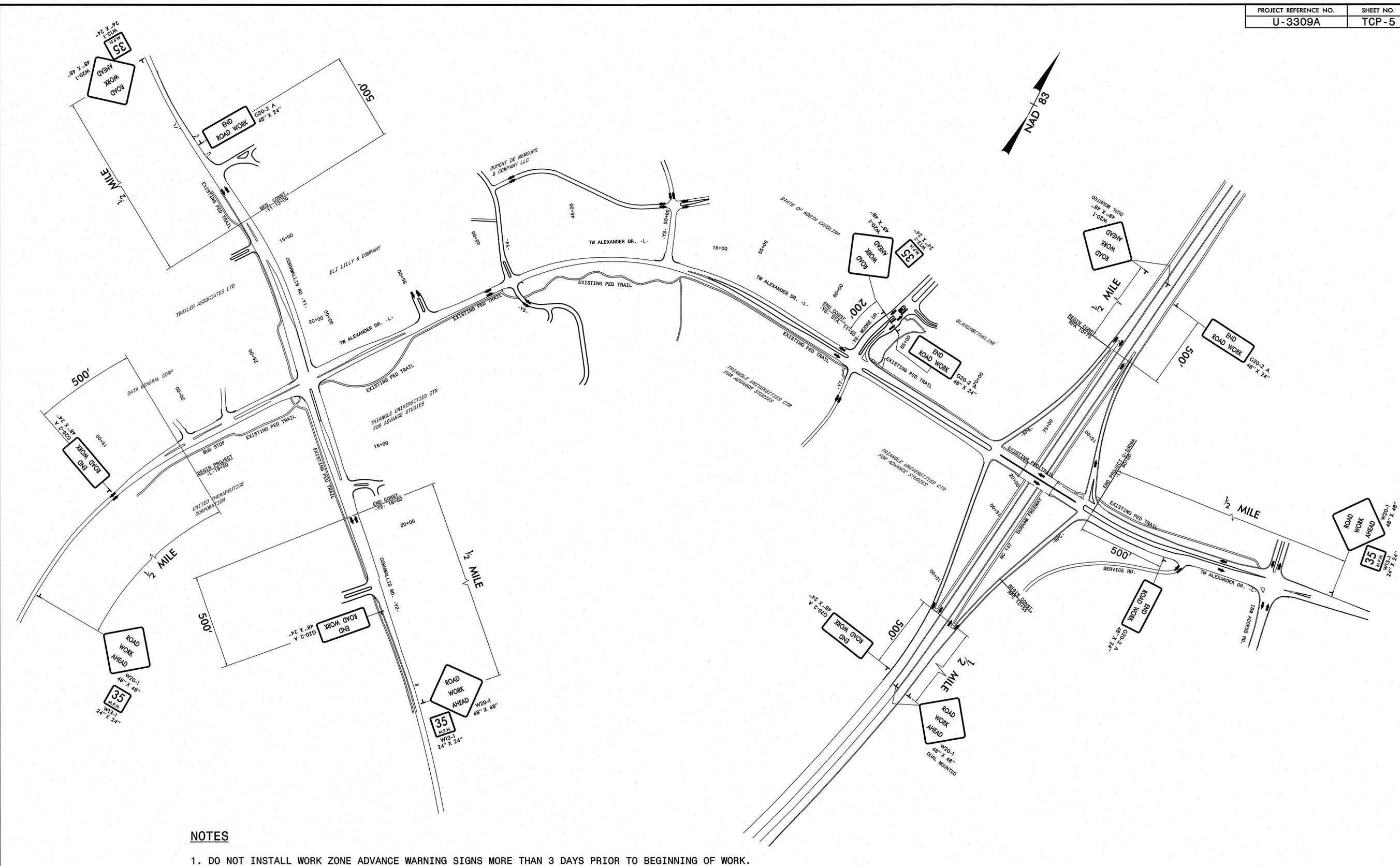
 Stantec <small>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6999 Fax: 919.851.7024 www.stantec.com</small>	APPROVED: <i>Betsy L. Watson</i> DATE: 6/23/09 	TRAFFIC CONTROL PHASING PHASE IV		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td style="width: 50%; height: 20px;"> </td> <td style="width: 50%;"> </td> </tr> <tr> <td style="width: 50%; height: 20px;"> </td> <td style="width: 50%;"> </td> </tr> <tr> <td style="width: 50%; height: 20px;"> </td> <td style="width: 50%;"> </td> </tr> </table>	REVISIONS							
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TEMPORARY PAVEMENT MARKING SCHEDULE				
SYMBOL	DESCRIPTION	TOTAL QUANTITY	UNIT	PAY ITEM QUANTITY
PAINT PAVEMENT MARKING LINES, (4")		137,596	LF	
PA	WHITE EDGELINE			37,546
PB	YELLOW EDGELINE			30,210
PC	10 FT. WHITE SKIP			4,573
PD	2 FT. WHITE MINISKIP			3,360
PE	WHITE SOLID LANE LINE			18,524
PG	2 FT. YELLOW MINISKIP			17
PI	YELLOW DOUBLE CENTER			43,366
PAINT PAVEMENT MARKING LINES, (8")		2,632	LF	
PR	WHITE GORELINE			2,420
PV	YELLOW DIAGONAL			212
PAINT PAVEMENT MARKING LINES, (24")		9,728	LF	
P4	WHITE STOPBAR			2,214
P5	WHITE CROSSWALK LINE - 10' HI-VISIBILITY			7,514
PAINT PAVEMENT MARKING SYMBOLS		372	EA	
QA	LEFT TURN ARROW			104
QB	RIGHT TURN ARROW			102
QC	STRAIGHT ARROW			104
QD	COMBINATION STRAIGHT/LEFT ARROW			22
QE	COMBINATION STRAIGHT/RIGHT ARROW			4
QJ	BICYCLE LANE SYMBOL			18
QK	BICYCLE LANE STRAIGHT ARROW			18
PAINT PAVEMENT MARKING CHARACTERS		84	EA	
QI	ALPHANUMERIC CHARACTERS			84

QUANTITIES OF PAVEMENT MARKING LINES AND SYMBOLS SHOWN ABOVE ARE BASED ON 2X APPLICATIONS.

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		SCALE: NONE DATE: MARCH 2009 DWG. BY: GK DESIGN BY: GK REVIEWED BY: BLW	REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>								



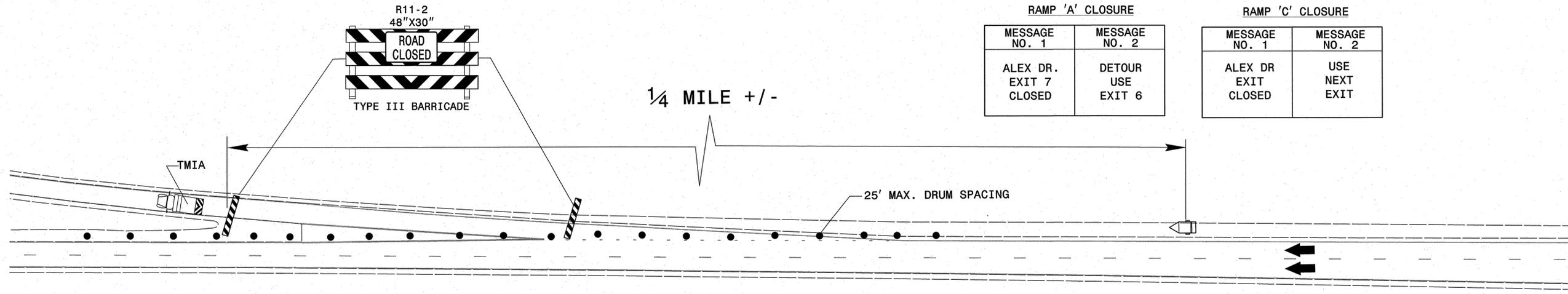
NOTES

1. DO NOT INSTALL WORK ZONE ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
2. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY.

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TYPICAL RAMP CLOSURE DETAIL



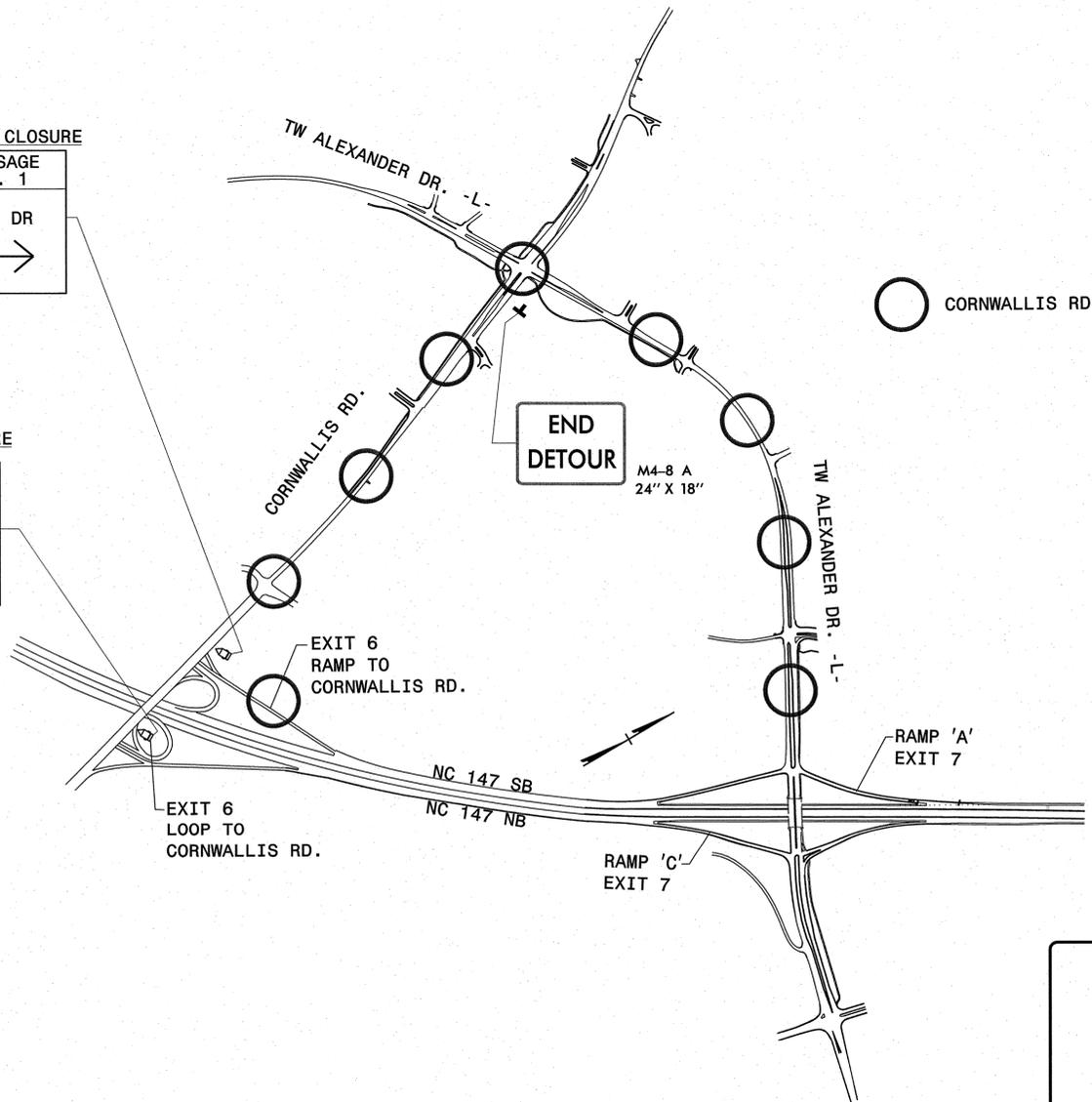
RAMP 'A' CLOSURE		RAMP 'C' CLOSURE	
MESSAGE NO. 1	MESSAGE NO. 2	MESSAGE NO. 1	MESSAGE NO. 2
ALEX DR. EXIT 7 CLOSED	DETOUR USE EXIT 6	ALEX DR EXIT CLOSED	USE NEXT EXIT

RAMP 'A' CLOSURE

MESSAGE NO. 1
ALEX DR →

RAMP 'C' CLOSURE

MESSAGE NO. 1
ALEX DR →



○ CORNWALLIS RD. DETOUR ROUTE DURING CLOSURE OF ALEXANDER DR. RAMPS

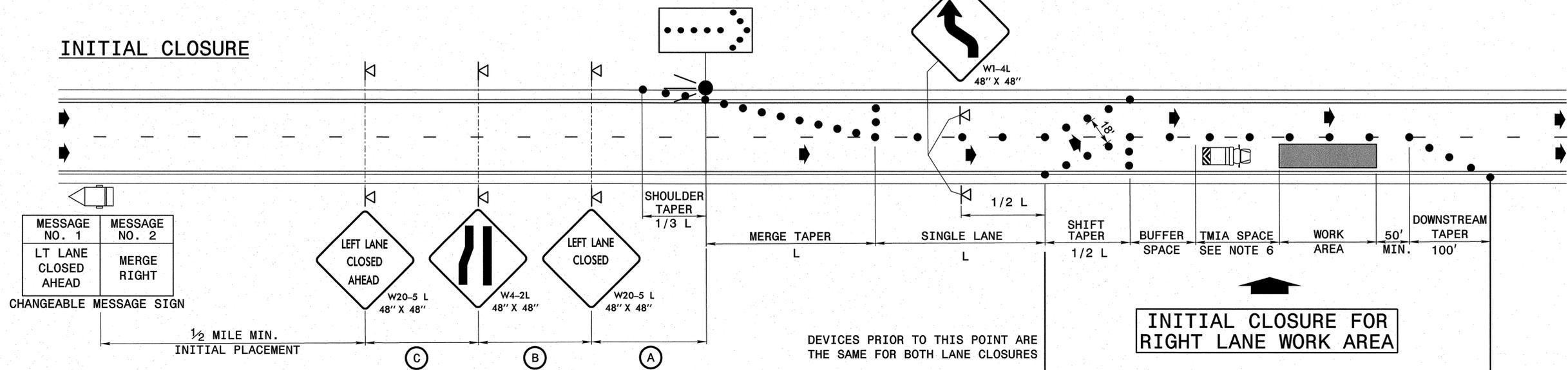
NOTES:

- DO NOT CLOSE RAMPS 'A' AND 'C' SIMULTANEOUSLY.
- REFER TO GENERAL NOTE C FOR CLOSURE TIME RESTRICTIONS.
- SUGGESTED CMS MESSAGES SHOWN ARE SUGGESTED. OTHER MESSAGES MAY BE USED AS DIRECTED BY THE ENGINEER

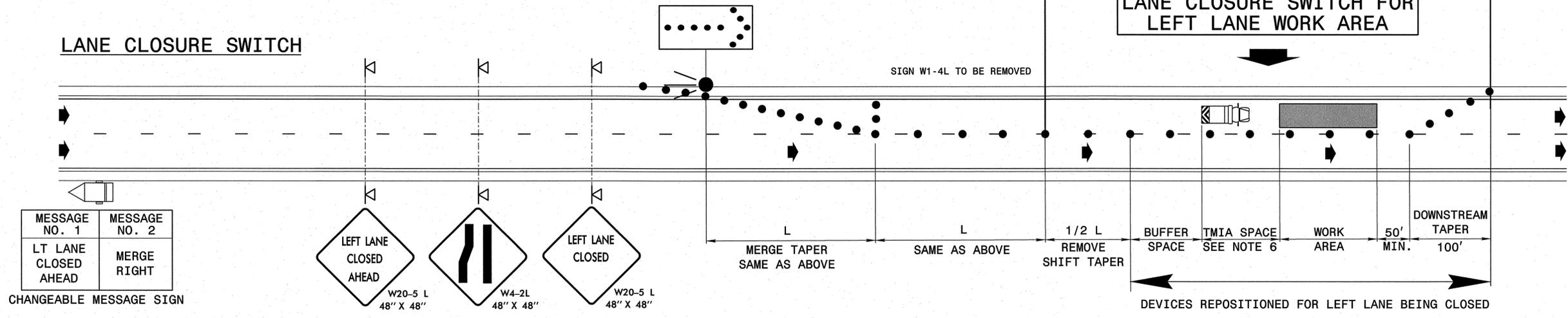
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<p>Stantec Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6888 Fax: 919.851.7024 www.stantec.com</p>	<p>APPROVED: <i>Betsy L. Watson</i> DATE: 6/23/09</p>	<p>RAMP 'A' & 'C' CLOSURE DETAIL</p>							
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INITIAL CLOSURE



LANE CLOSURE SWITCH

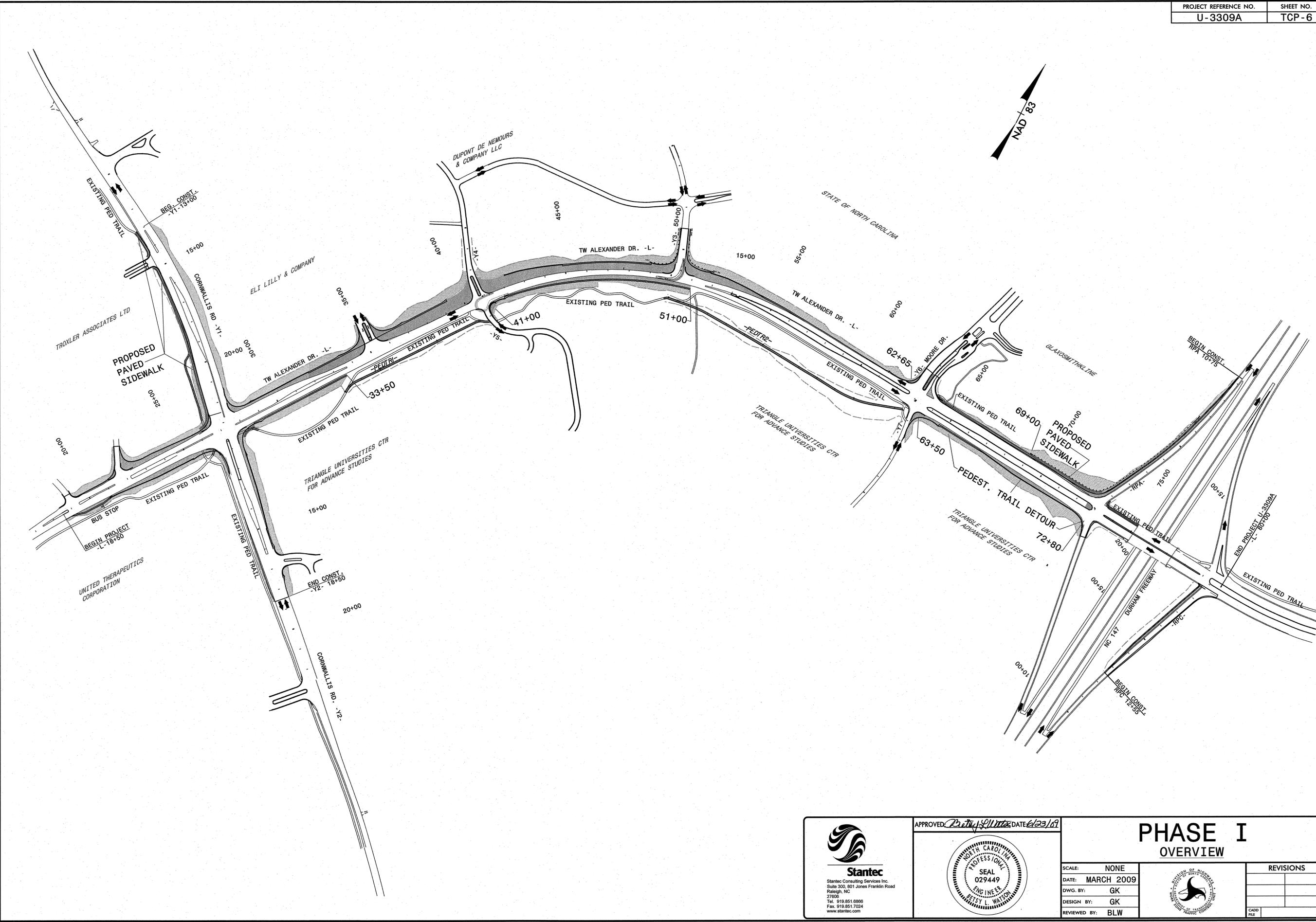


NOTES

- 1) PLACE ARROW PANELS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW PANELS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW PANEL LOCATION. IF NEEDED, EXTEND LANE CLOSURES, AT THE BUFFER SPACE, SUCH THAT STOPPING SIGHT DISTANCE TO THE ARROW PANEL IS MET. (REFER TO STD. NO. 1101.11 SHEET 2)
- 2) PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE BUFFER SPACE AND WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 3) REFER TO STD. NO. 1101.11-SHEETS 1, 2 & 4, FOR "L" DISTANCE, BUFFER SPACE & SIGN SPACING.
- 4) INITIAL SETUP OF THE SHIFT TAPER AND SUBSEQUENT REPOSITIONING OF DEVICES DURING LANE CLOSURE SWITCHES TO BE PERFORMED BY A ROLLING ROADBLOCK OPERATION. SEE RSD 1101.02, SHEET 9 OF 9.
- 5) PLACE CHANGEABLE MESSAGE SIGN (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER. INITIALLY, PLACE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF THE W20-5 SIGNS. RELOCATE THE UNIT AS NEEDED AND AS DIRECTED BY THE ENGINEER TO ADEQUATELY INFORM MOTORISTS.
- 6) USE TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) TO PROTECT THE WORK AREA. POSITION TMIA TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER.

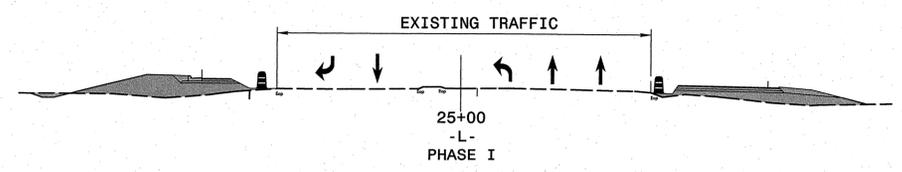
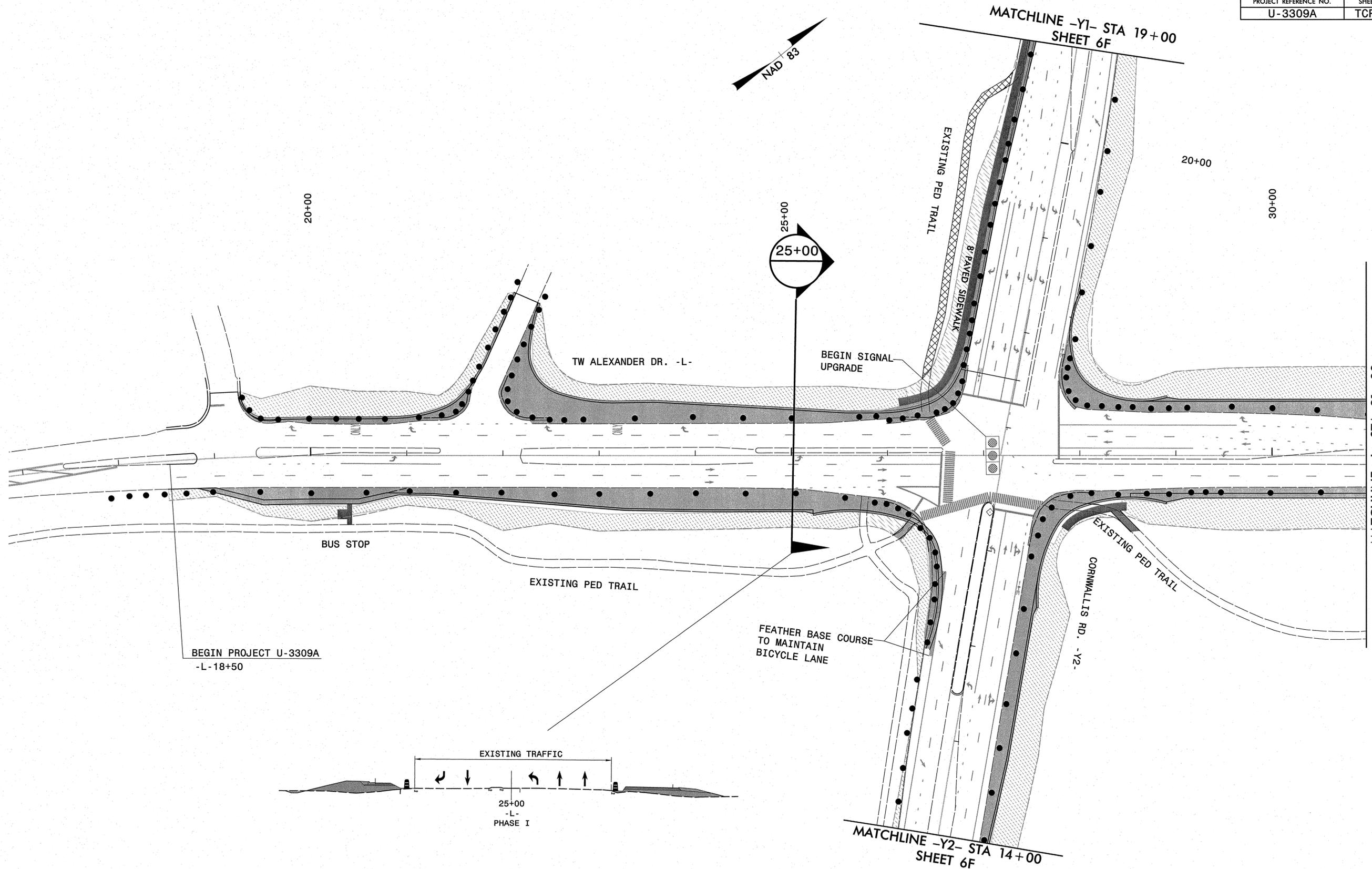
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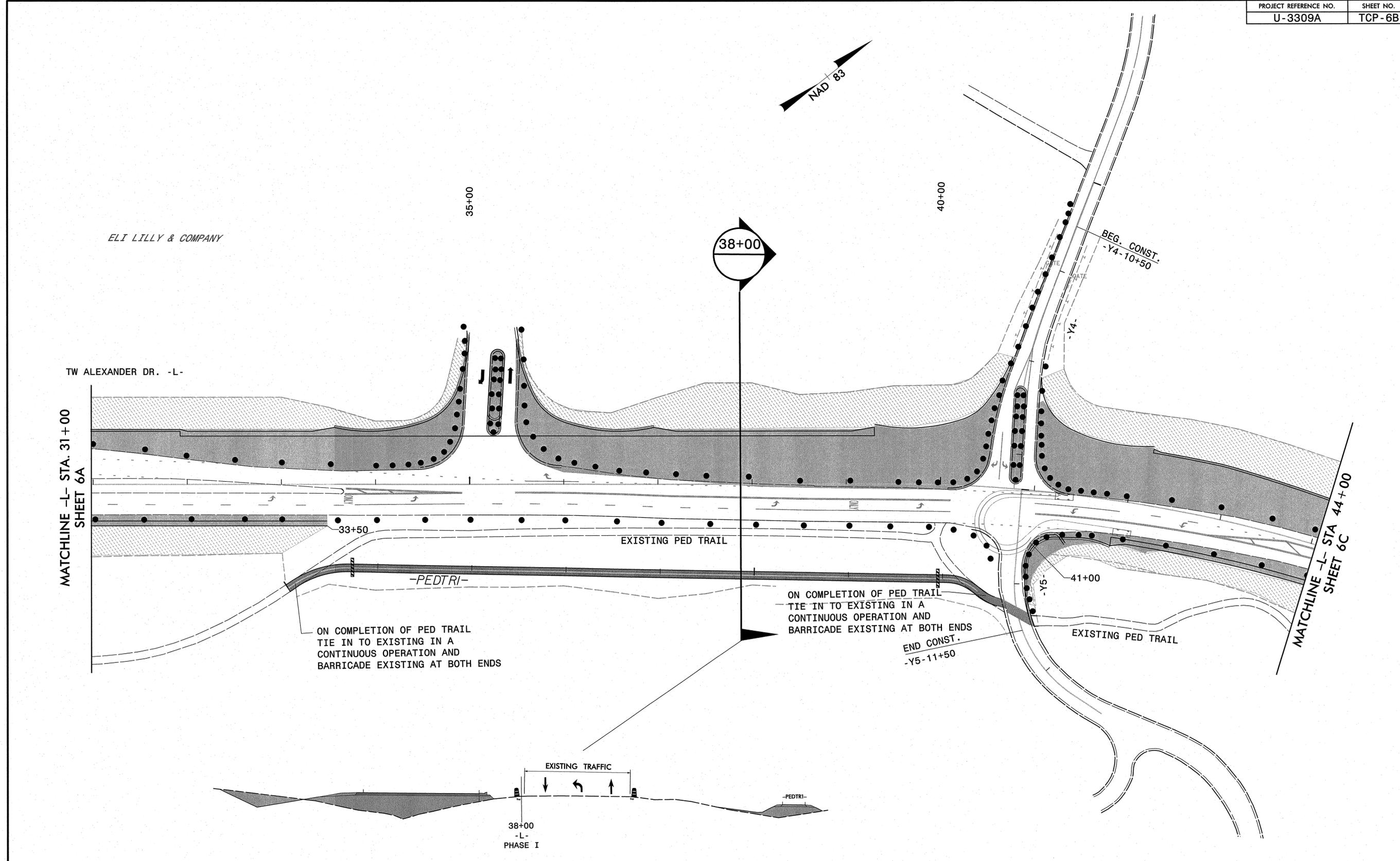
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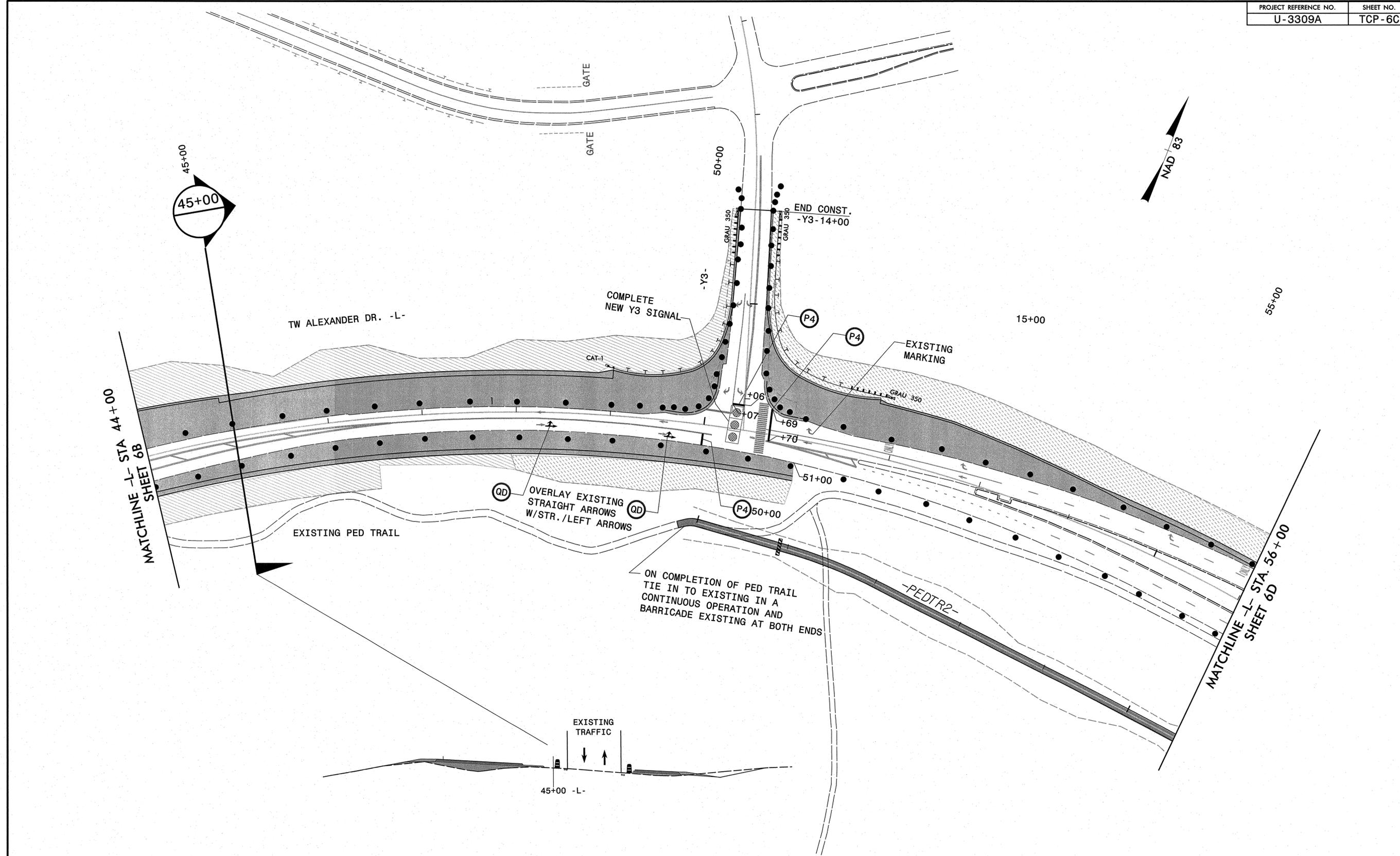
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STATE OF NORTH CAROLINA

60+00

GLAXOSMITHKLINE



TW ALEXANDER DR. -L-

MATCHLINE -L- STA. 56+00
SHEET 6C

END CONST.
-Y6-11+50
BEGIN SIGNAL
UPGRADE

62+65

-Y6- MOORE DR.

EXISTING PED TRAIL

00+65
REMOVE EXISTING ISLAND AND
REPLACE WITH PAVEMENT.
MAINTAIN PEDESTRIAN CROSSING.



EXISTING PED TRAIL

TW ALEXANDER DR. -L- PROP. PAVED
8' SIDEWALK

69+00

MATCHLINE -L- STA 69+00
SHEET 6E

EXISTING PED TRAIL

PROPOSED PAVEMENT USED
AS PEDESTRIAN DETOUR

63+50

BEG. CONST.
-Y7-13+00

STA. 68+00
BLACK ON ORANGE
DUAL MOUNTED

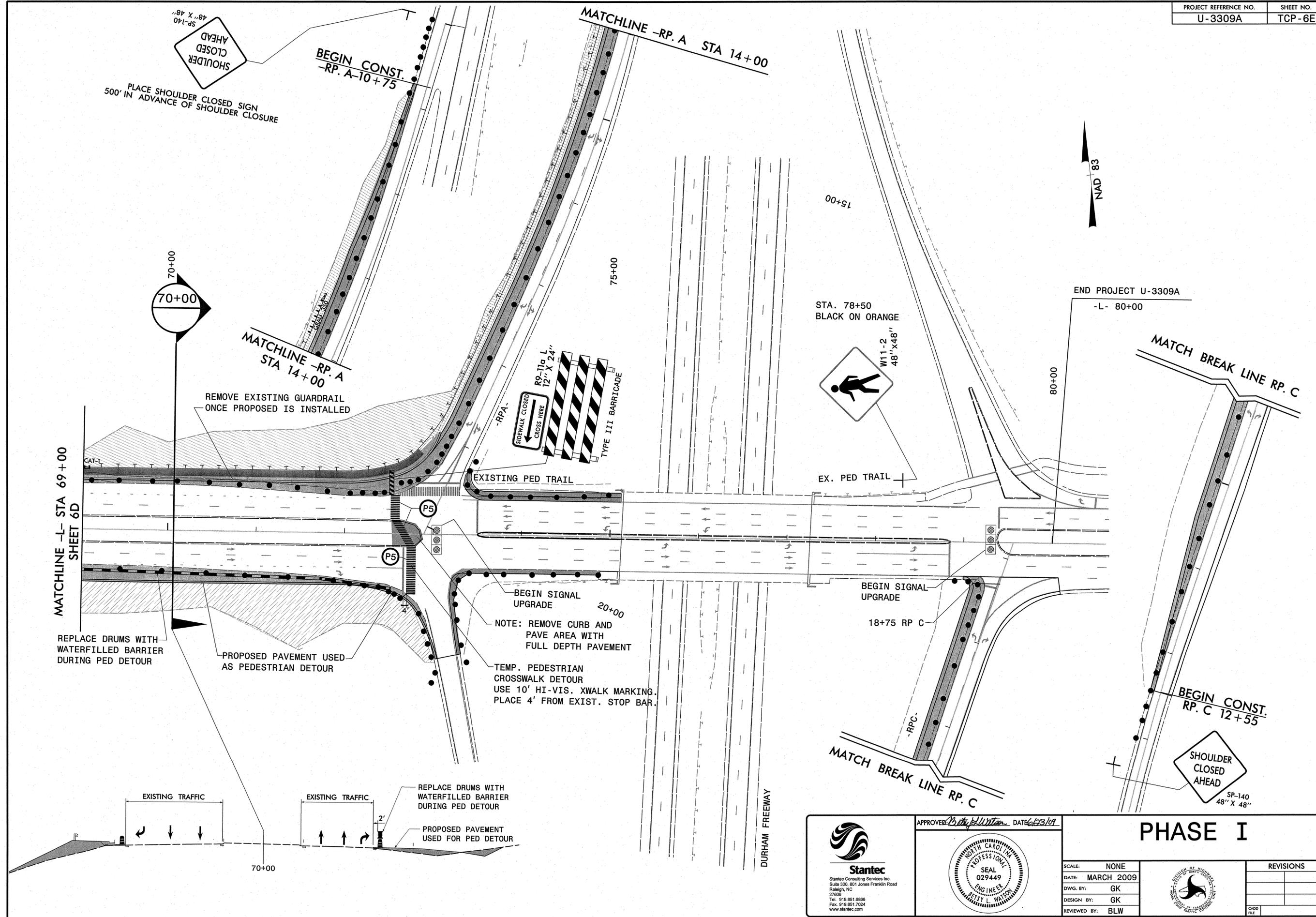


REPLACE DRUMS WITH
WATERFILLED BARRIER
DURING PED DETOUR

ON COMPLETION OF PED TRAIL
TIE IN TO EXISTING IN A
CONTINUOUS OPERATION AND
BARRICADE EXISTING AT BOTH ENDS

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 Stantec Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com	APPROVED <i>[Signature]</i> DATE 6/23/09 	<h1>PHASE I</h1>																		
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SP-140 48" X 48"
SHOULDER CLOSED AHEAD
 PLACE SHOULDER CLOSED SIGN 500' IN ADVANCE OF SHOULDER CLOSURE

BEGIN CONST. -RP. A-10+75

MATCHLINE -RP. A STA 14+00

NAD 83

END PROJECT U-3309A -L- 80+00

MATCH BREAK LINE RP. C

STA. 78+50
 BLACK ON ORANGE

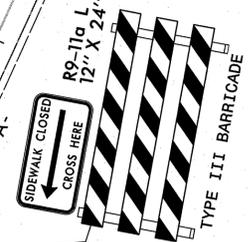


EX. PED TRAIL

70+00

MATCHLINE -RP. A STA 14+00

REMOVE EXISTING GUARDRAIL ONCE PROPOSED IS INSTALLED



EXISTING PED TRAIL

MATCHLINE -L- STA 69+00 SHEET 6D

REPLACE DRUMS WITH WATERFILLED BARRIER DURING PED DETOUR

PROPOSED PAVEMENT USED AS PEDESTRIAN DETOUR

BEGIN SIGNAL UPGRADE

NOTE: REMOVE CURB AND PAVE AREA WITH FULL DEPTH PAVEMENT

TEMP. PEDESTRIAN CROSSWALK DETOUR USE 10' HI-VIS. XWALK MARKING. PLACE 4' FROM EXIST. STOP BAR.

BEGIN SIGNAL UPGRADE

18+75 RP C

BEGIN CONST. RP. C 12+55



MATCH BREAK LINE RP. C

EXISTING TRAFFIC

EXISTING TRAFFIC

REPLACE DRUMS WITH WATERFILLED BARRIER DURING PED DETOUR

PROPOSED PAVEMENT USED FOR PED DETOUR

70+00

DURHAM FREEWAY



Stantec Consulting Services Inc.
 Suite 300, 801 Jones Franklin Road
 Raleigh, NC 27606
 Tel. 919.851.8888
 Fax. 919.851.7024
 www.stantec.com

APPROVED: *[Signature]* DATE: 6/23/09



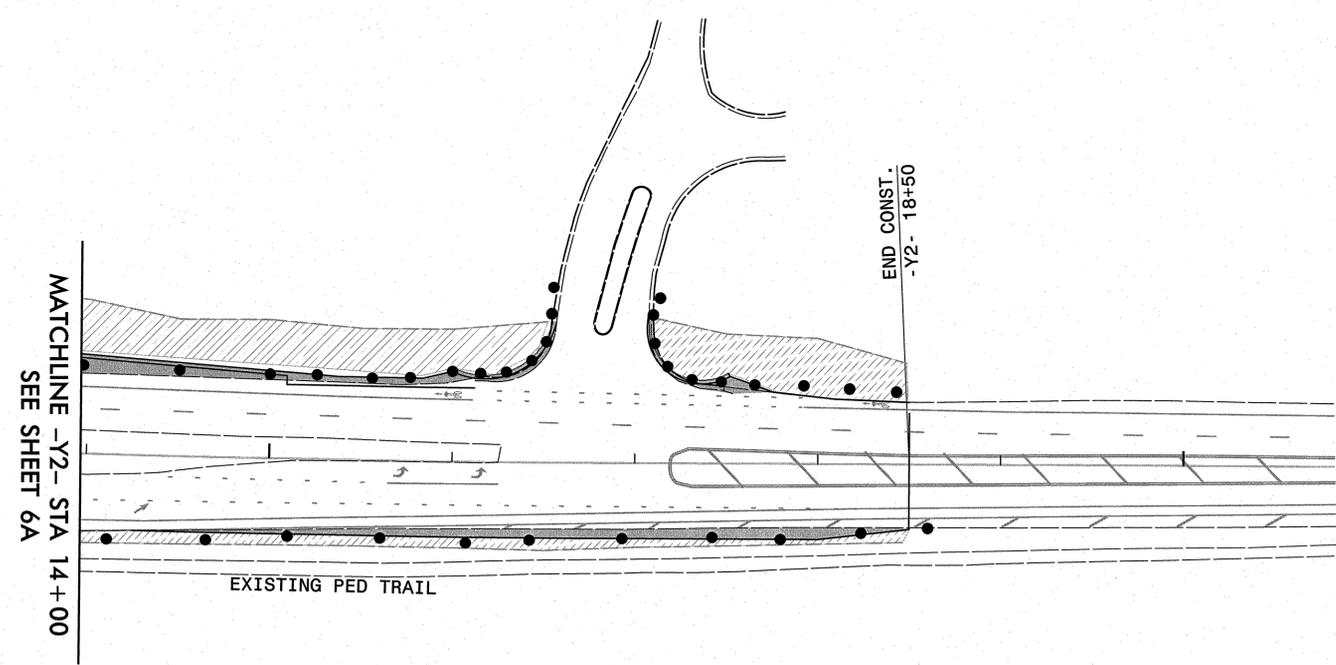
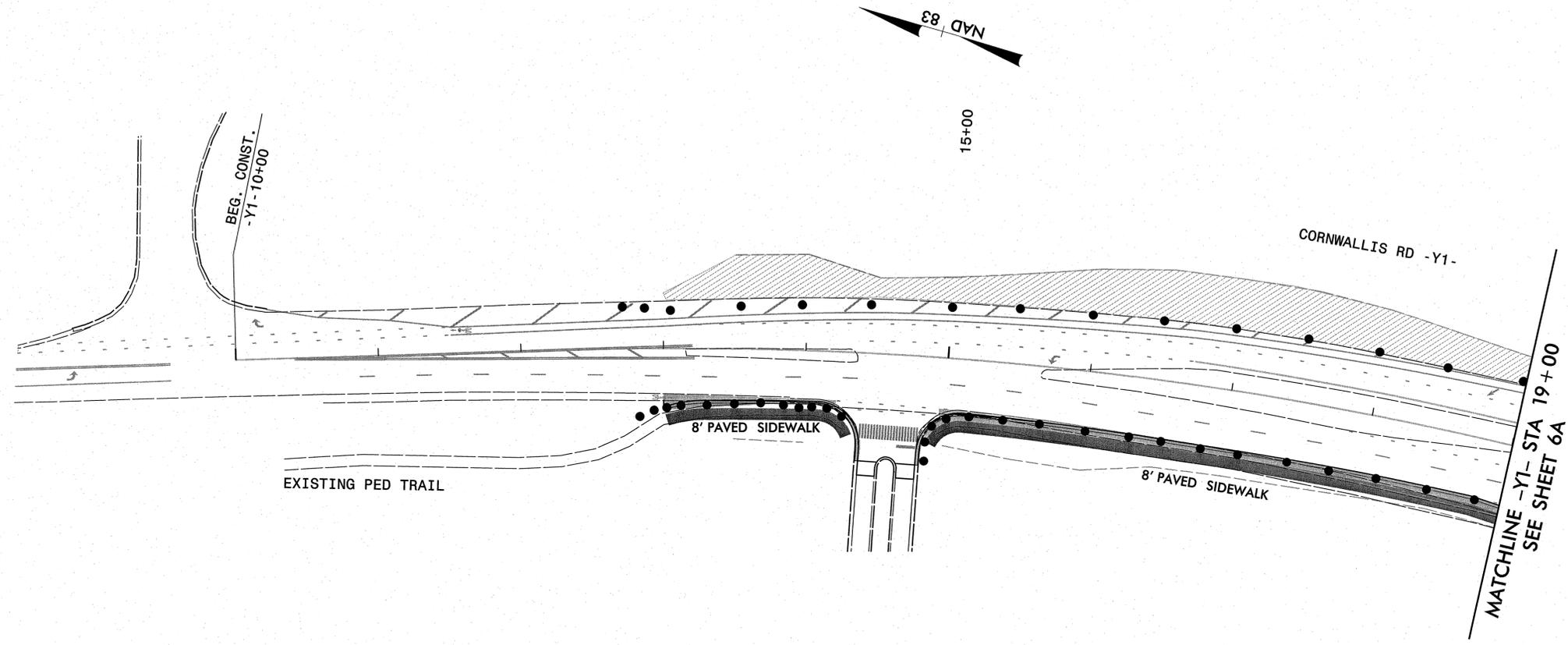
PHASE I

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DATE:	MARCH 2009
DWG. BY:	GK
DESIGN BY:	GK
REVIEWED BY:	BLW



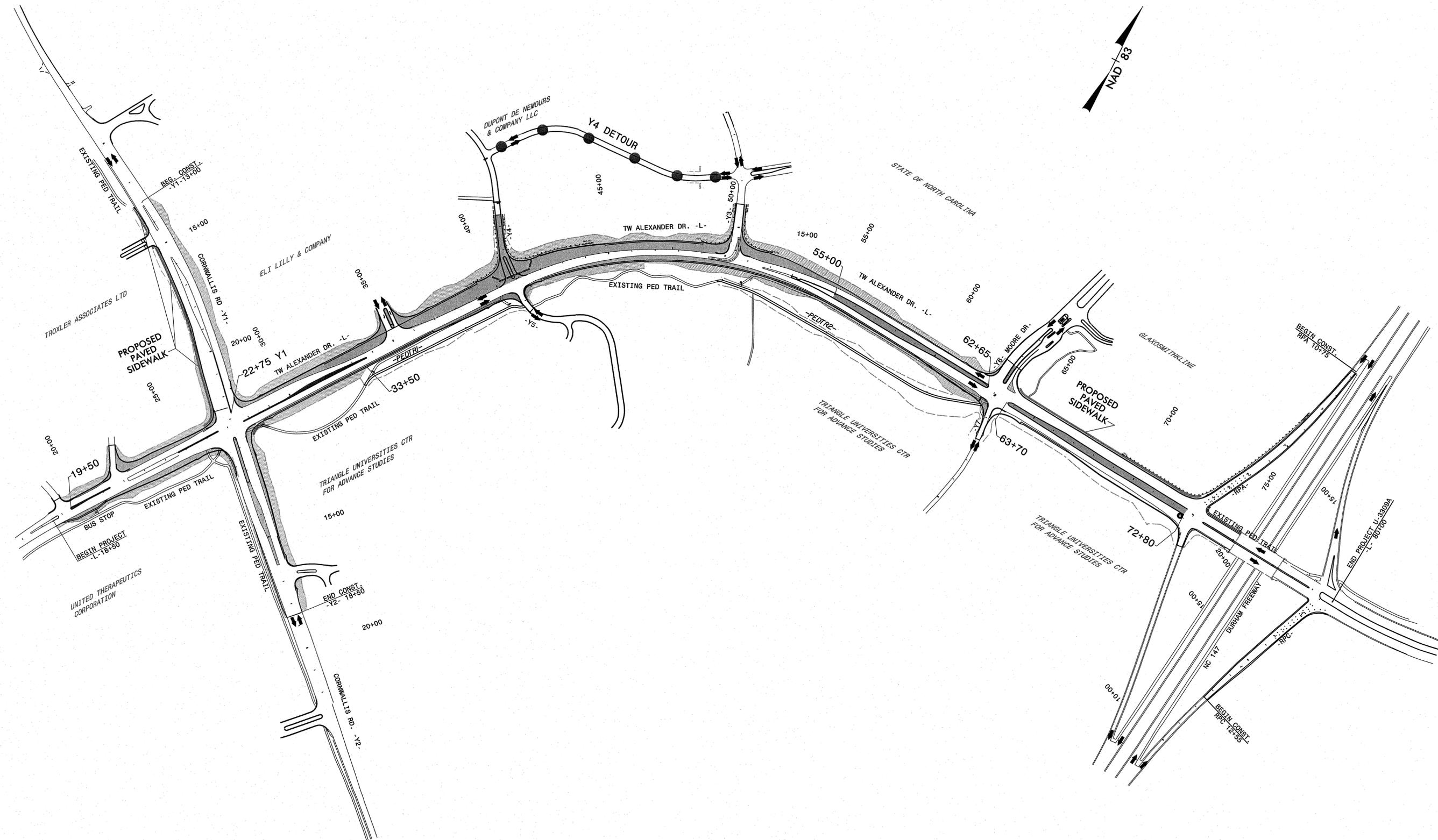
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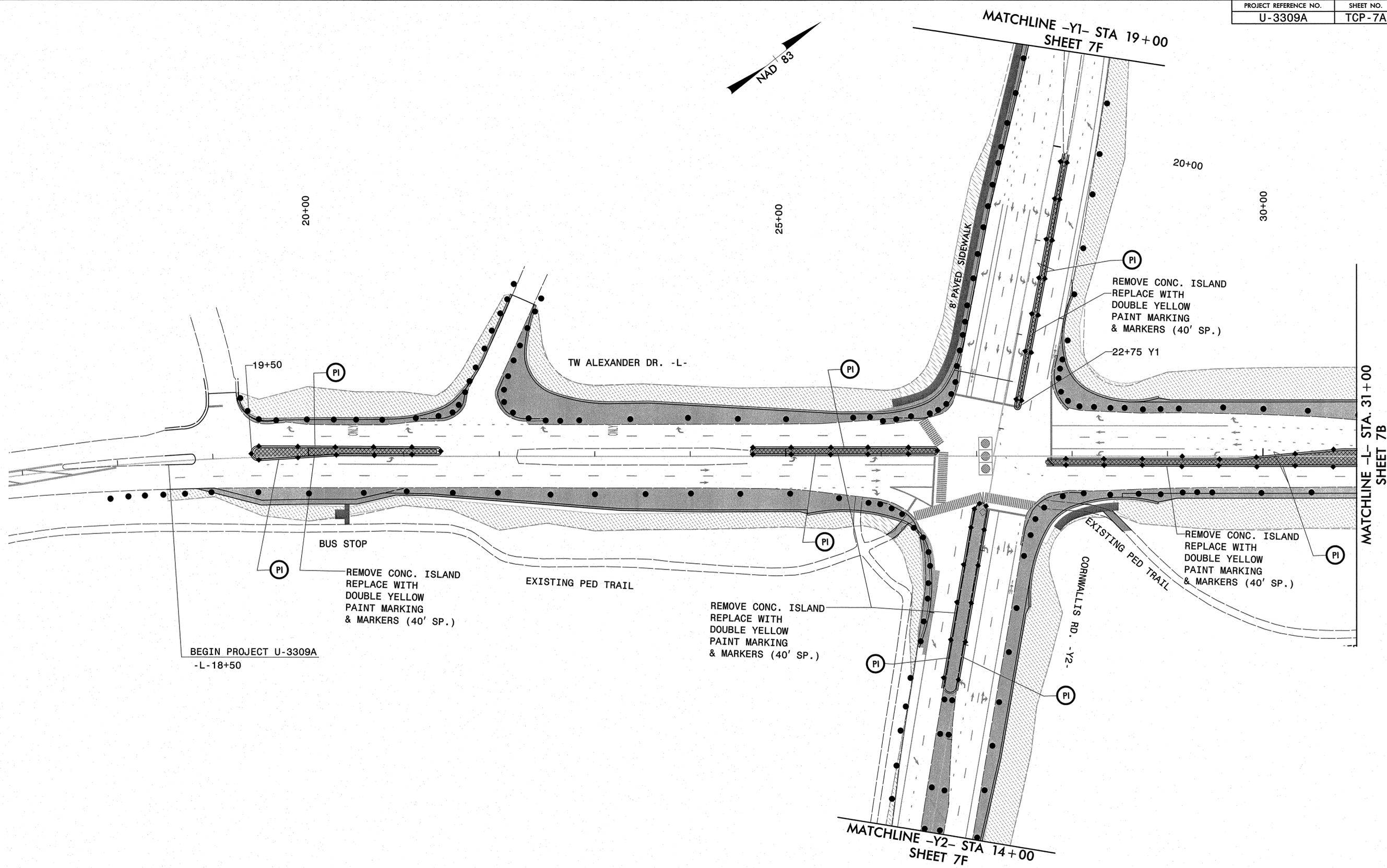
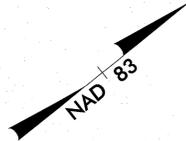
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 gkarageorge

 Stantec Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.8865 Fax: 919.851.7024 www.stantec.com	APPROVED: <i>Betsy L. Watson</i> DATE: 6/23/09 	<h1>PHASE I</h1>							
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REVISIONS									



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 Stantec Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel: 919.851.6999 Fax: 919.851.7024 www.stantec.com	APPROVED: <i>Debra Wilson</i> DATE: 6/23/09 	<h2>PHASE II</h2> <h3>OVERVIEW</h3>		<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS									
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SCALE:	NONE													
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BEGIN PROJECT U-3309A
-L- 18+50

BUS STOP
REMOVE CONC. ISLAND
REPLACE WITH
DOUBLE YELLOW
PAINT MARKING
& MARKERS (40' SP.)

EXISTING PED TRAIL

REMOVE CONC. ISLAND
REPLACE WITH
DOUBLE YELLOW
PAINT MARKING
& MARKERS (40' SP.)

MATCHLINE -Y2- STA 14+00
SHEET 7F

APPROVED: *Betsy Watson* DATE: 6/23/09



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PHASE II

SCALE:	NONE
DATE:	MARCH 2009
DWG. BY:	GK
DESIGN BY:	GK
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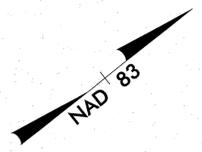
REVISIONS

6/23/2009
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DUPONT DE NEMOURS
& COMPANY LLC

CHAIN
GATE

Y4 DETOUR ROUTE TO Y3
SEE SHEET TCP-7



ELI LILLY & COMPANY

TW ALEXANDER DR. -L-

MATCHLINE -L- STA. 31+00
SHEET 7A

33+50

35+00

40+00

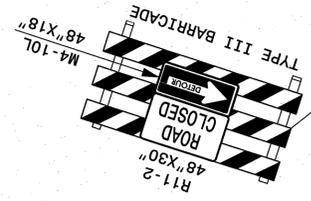
EXISTING PED TRAIL
(CLOSED)

-PEDTRI-

END CONST.
-Y5-11+50

EXISTING PED TRAIL

MATCHLINE -L- STA 44+00
SHEET 7C



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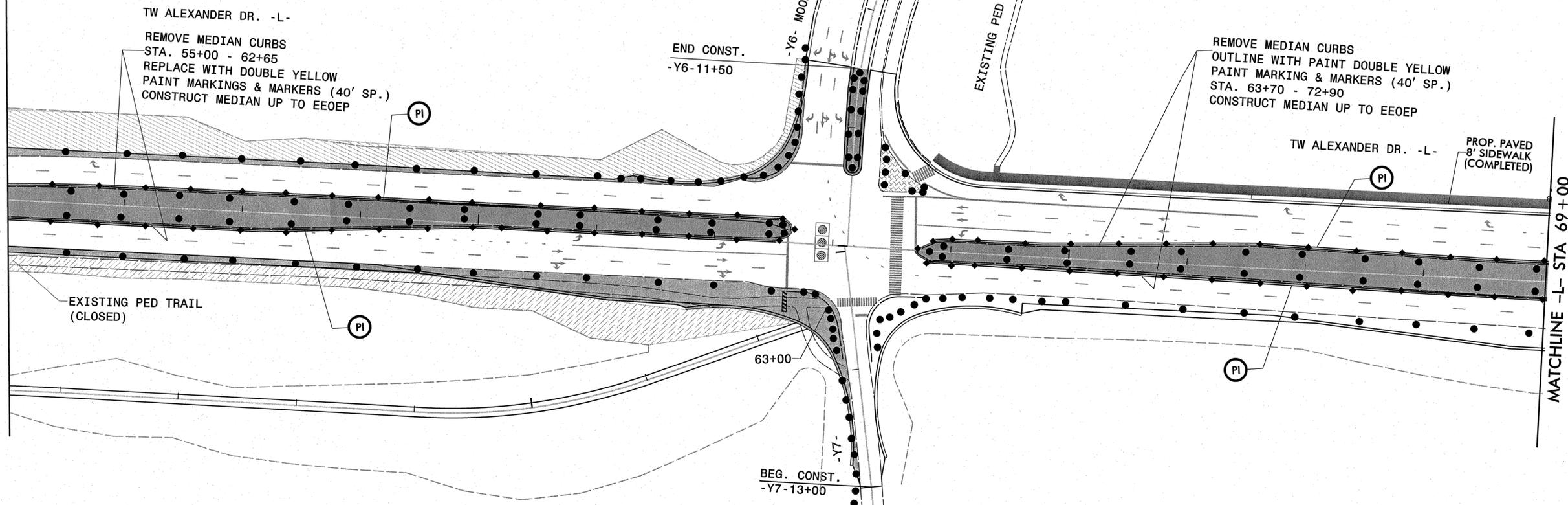


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STATE OF NORTH CAROLINA

MATCHLINE -L- STA. 56+00
SHEET 7C



GLAXOSMITHKLINE



TW ALEXANDER DR. -L-
REMOVE MEDIAN CURBS
STA. 55+00 - 62+65
REPLACE WITH DOUBLE YELLOW
PAINT MARKINGS & MARKERS (40' SP.)
CONSTRUCT MEDIAN UP TO EEOEP

END CONST.
-Y6-11+50

REMOVE MEDIAN CURBS
OUTLINE WITH PAINT DOUBLE YELLOW
PAINT MARKING & MARKERS (40' SP.)
STA. 63+70 - 72+90
CONSTRUCT MEDIAN UP TO EEOEP

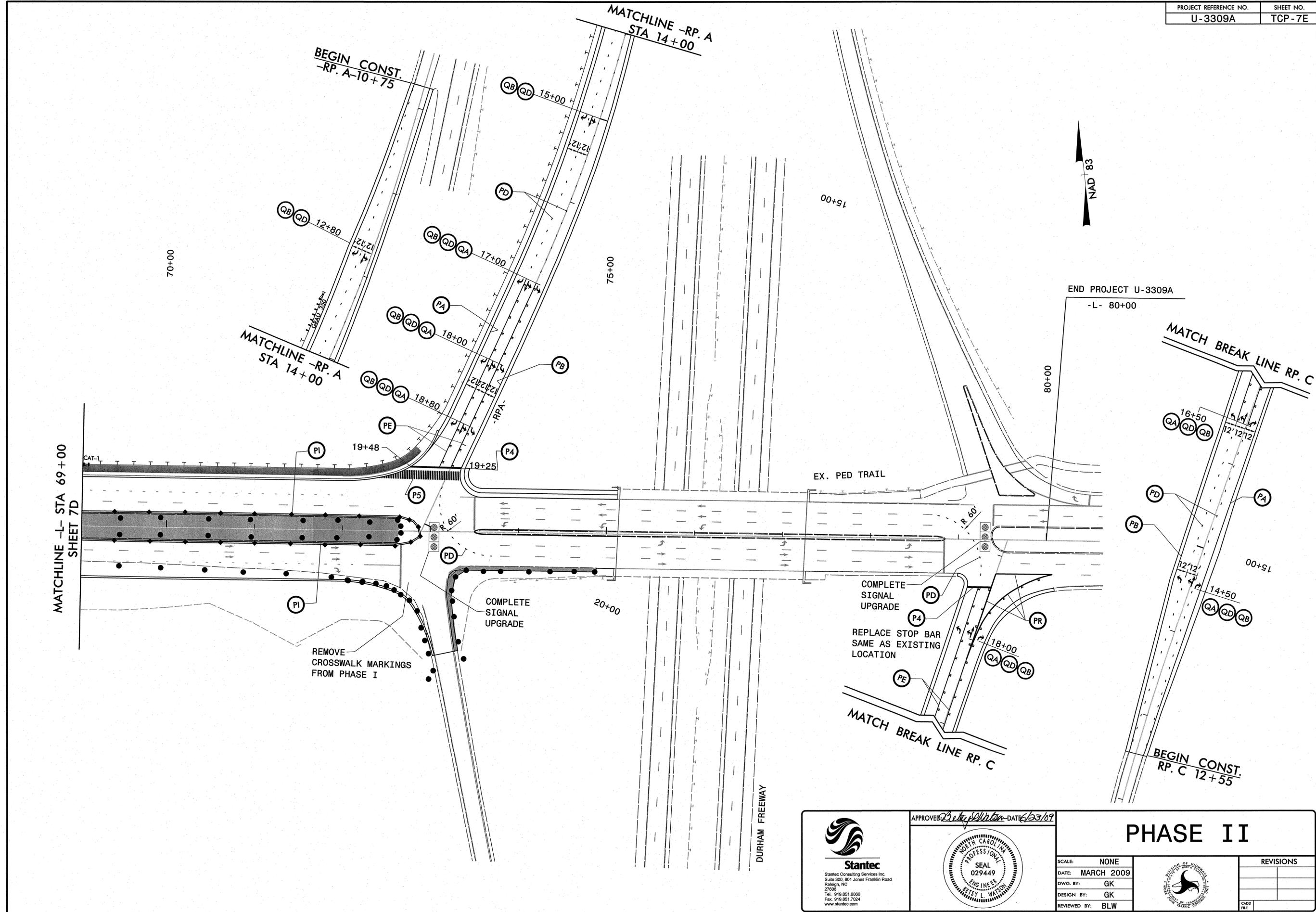
TW ALEXANDER DR. -L-
PROP. PAVED
8' SIDEWALK
(COMPLETED)

EXISTING PED TRAIL
(CLOSED)

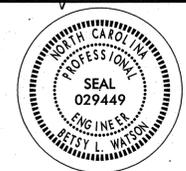
MATCHLINE -L- STA 69+00
SHEET 7E

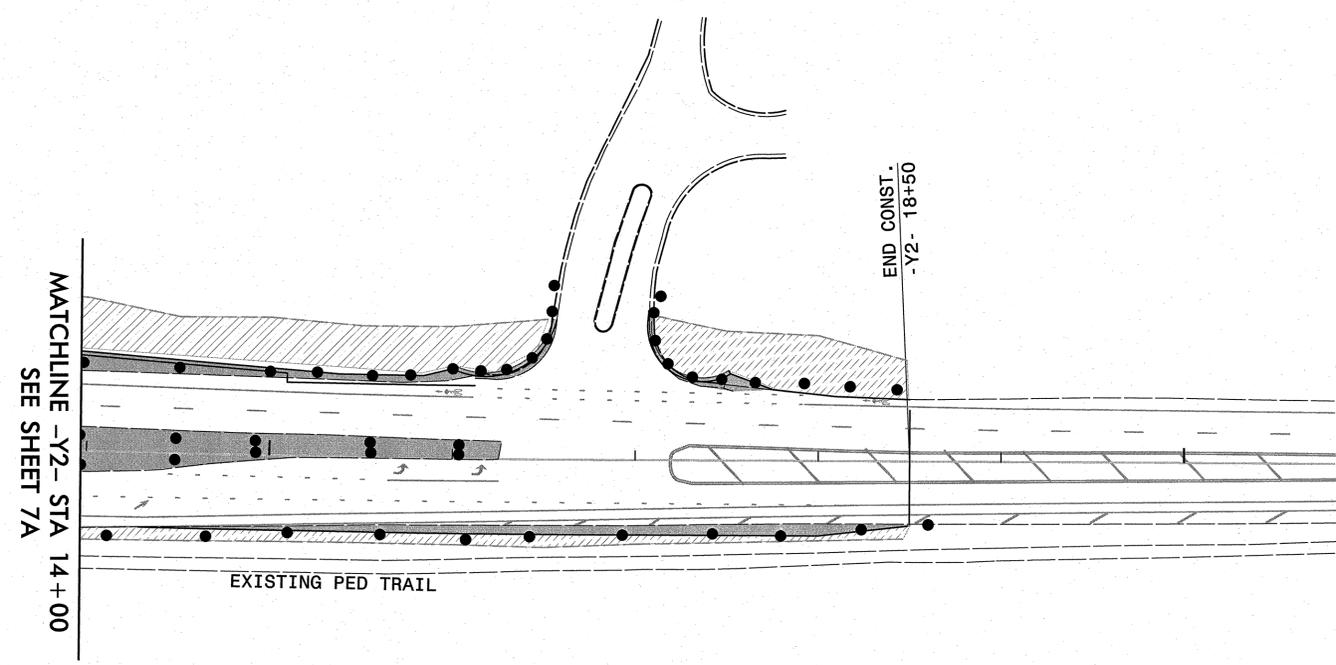
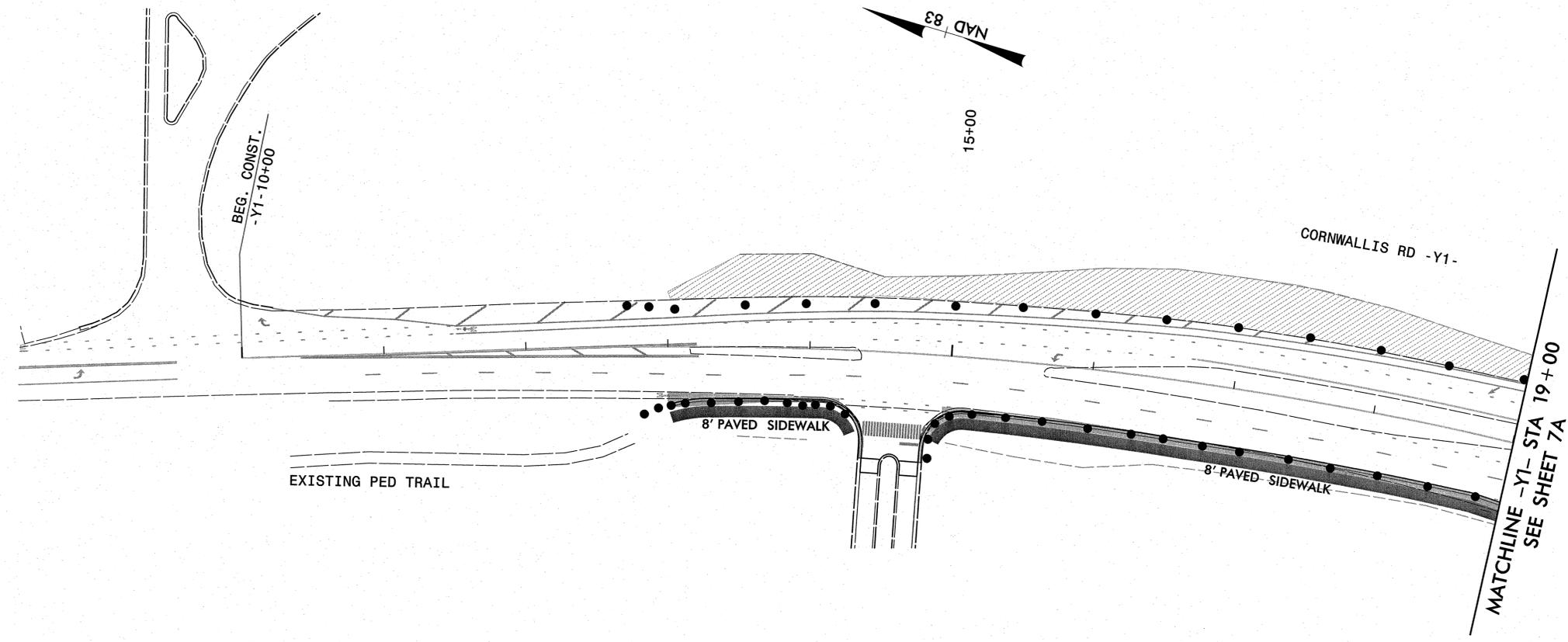
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 Stantec Stantec Consulting Services Inc. Suite 300, 301 Jones Franklin Road Raleigh, NC 27606 Tel. 919.851.6886 Fax. 919.851.7024 www.stantec.com	APPROVED: <i>Betsy L. Watson</i> DATE: 6/23/09 	<h1>PHASE II</h1>							
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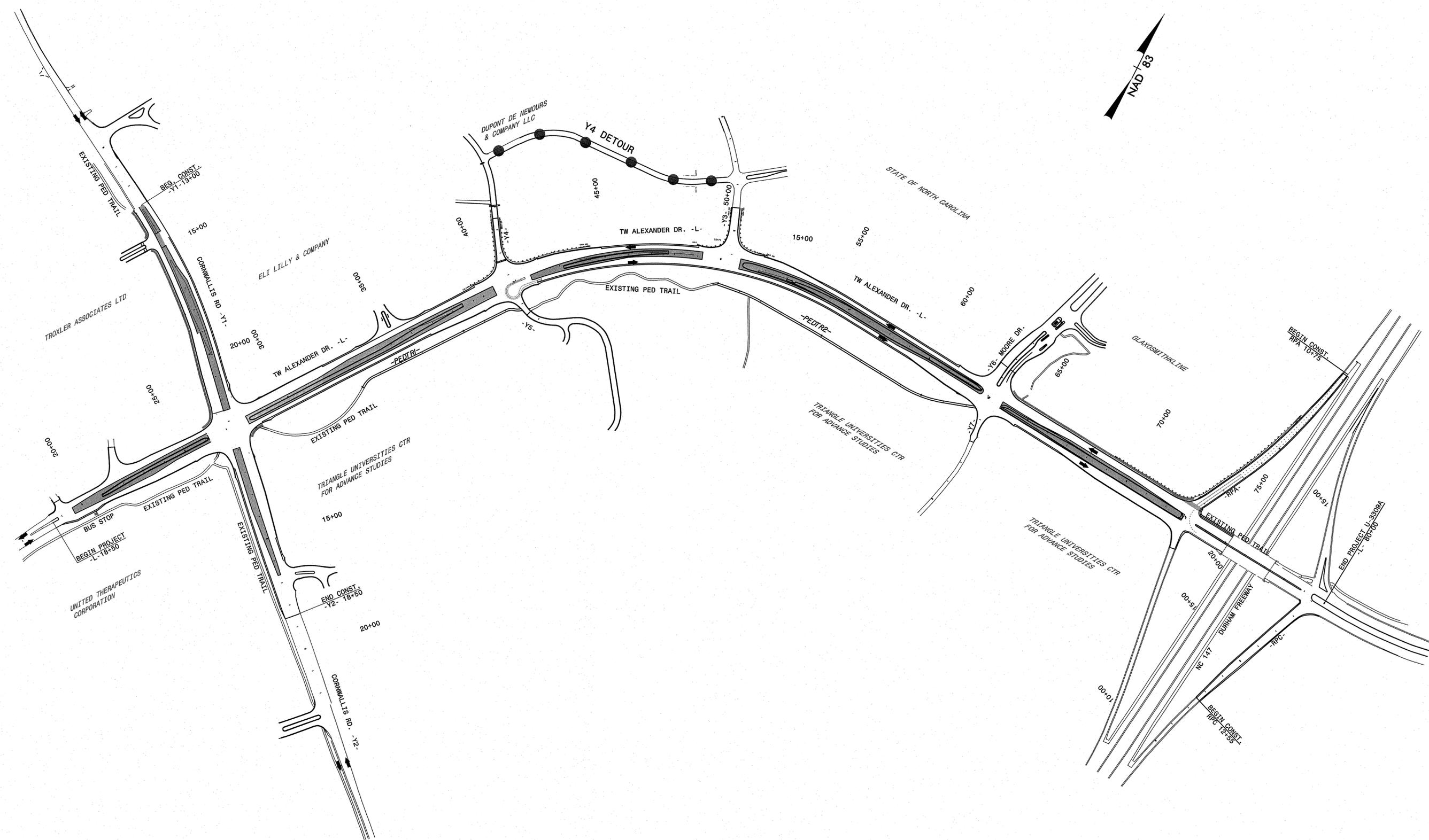
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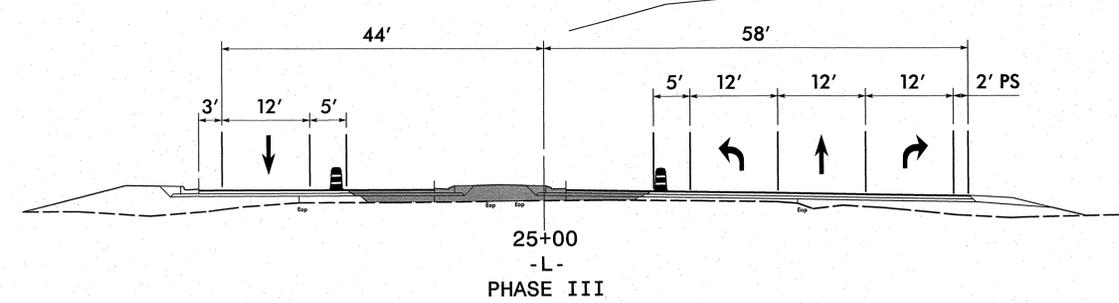
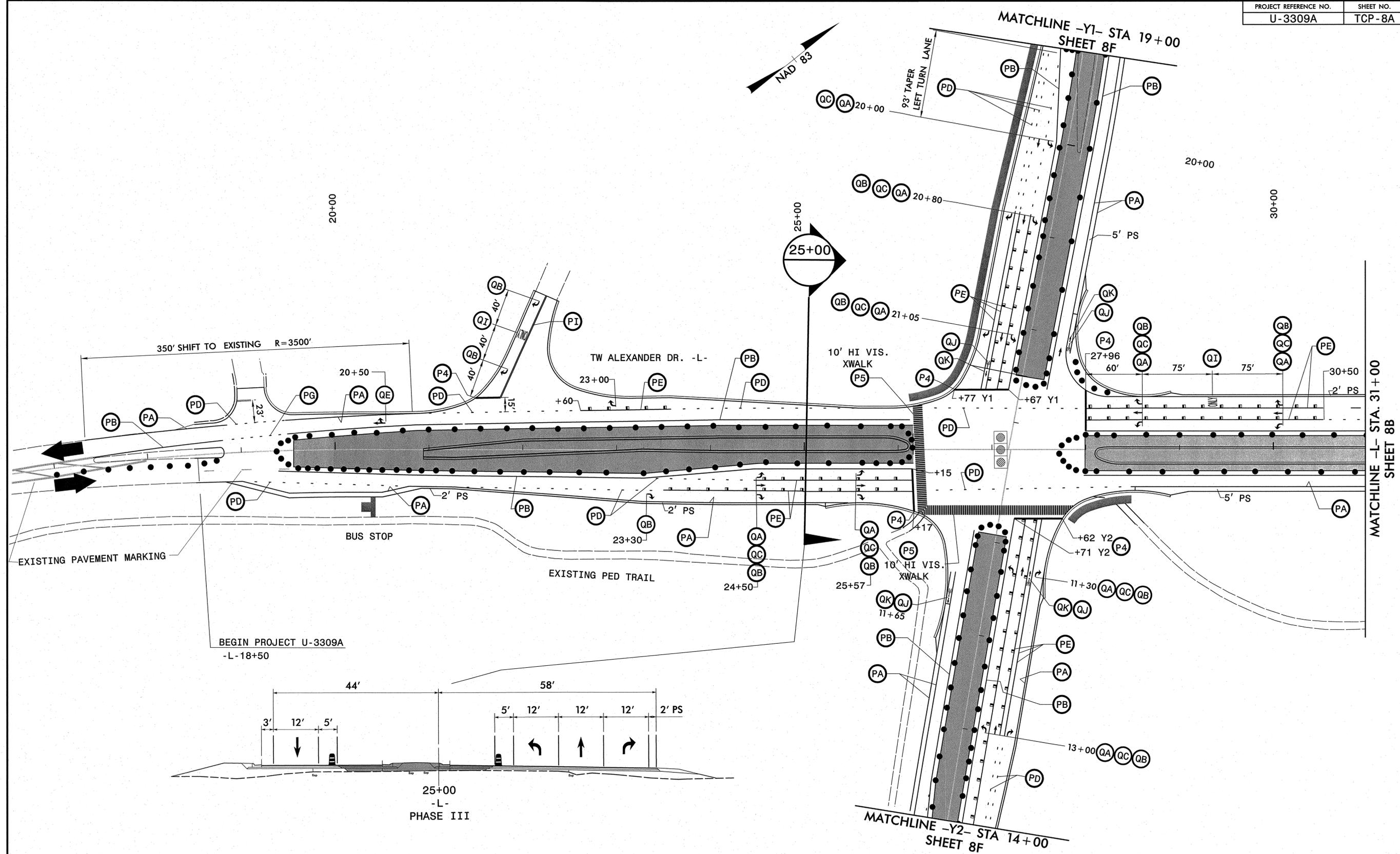
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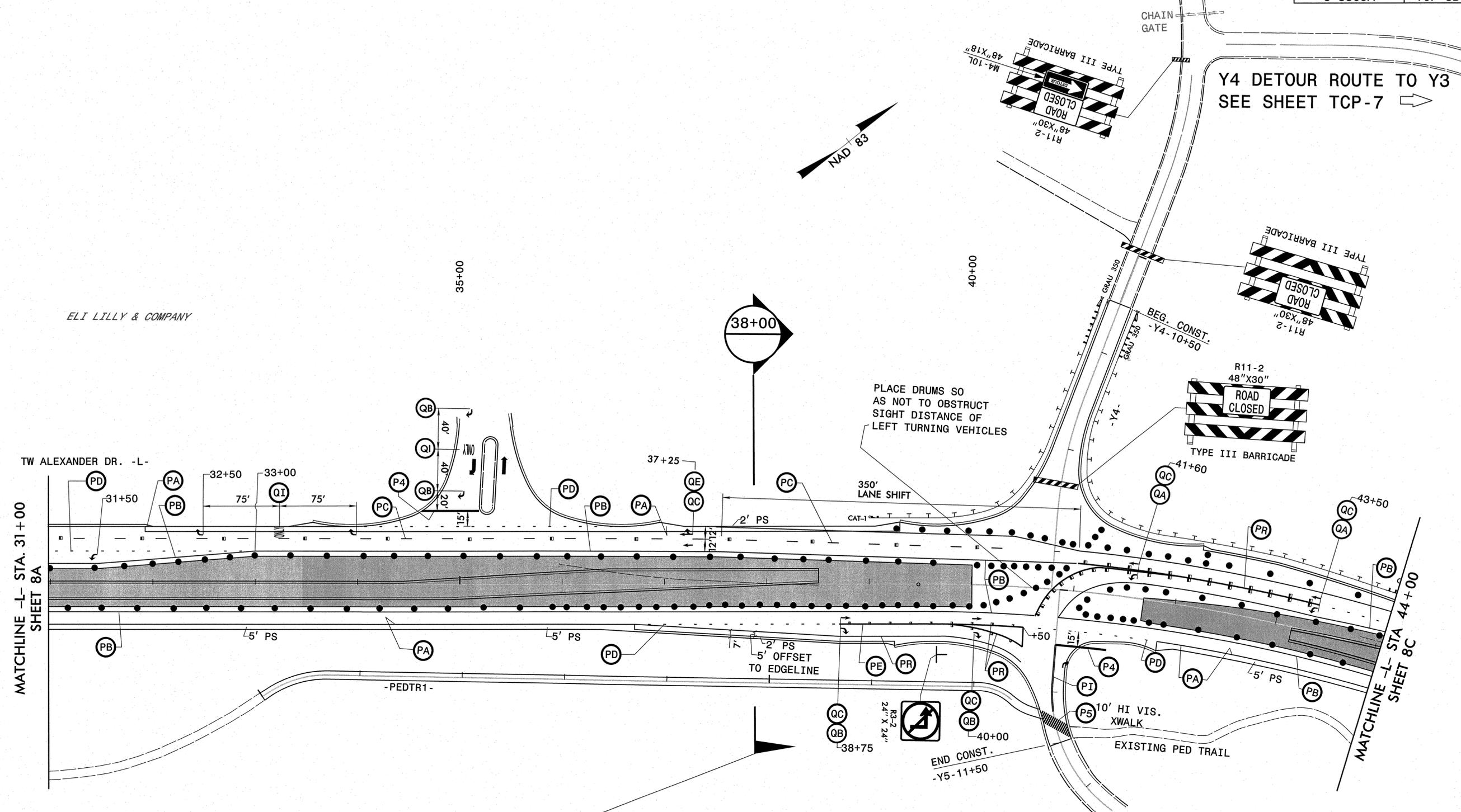
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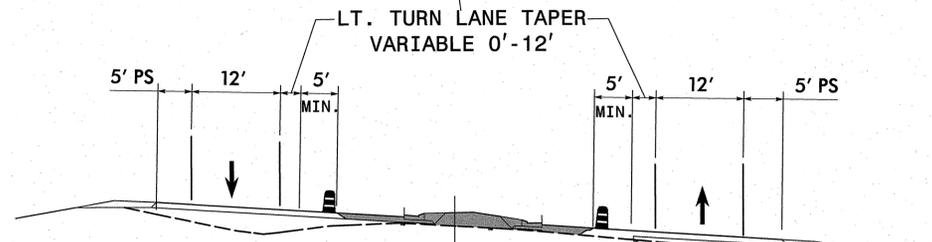
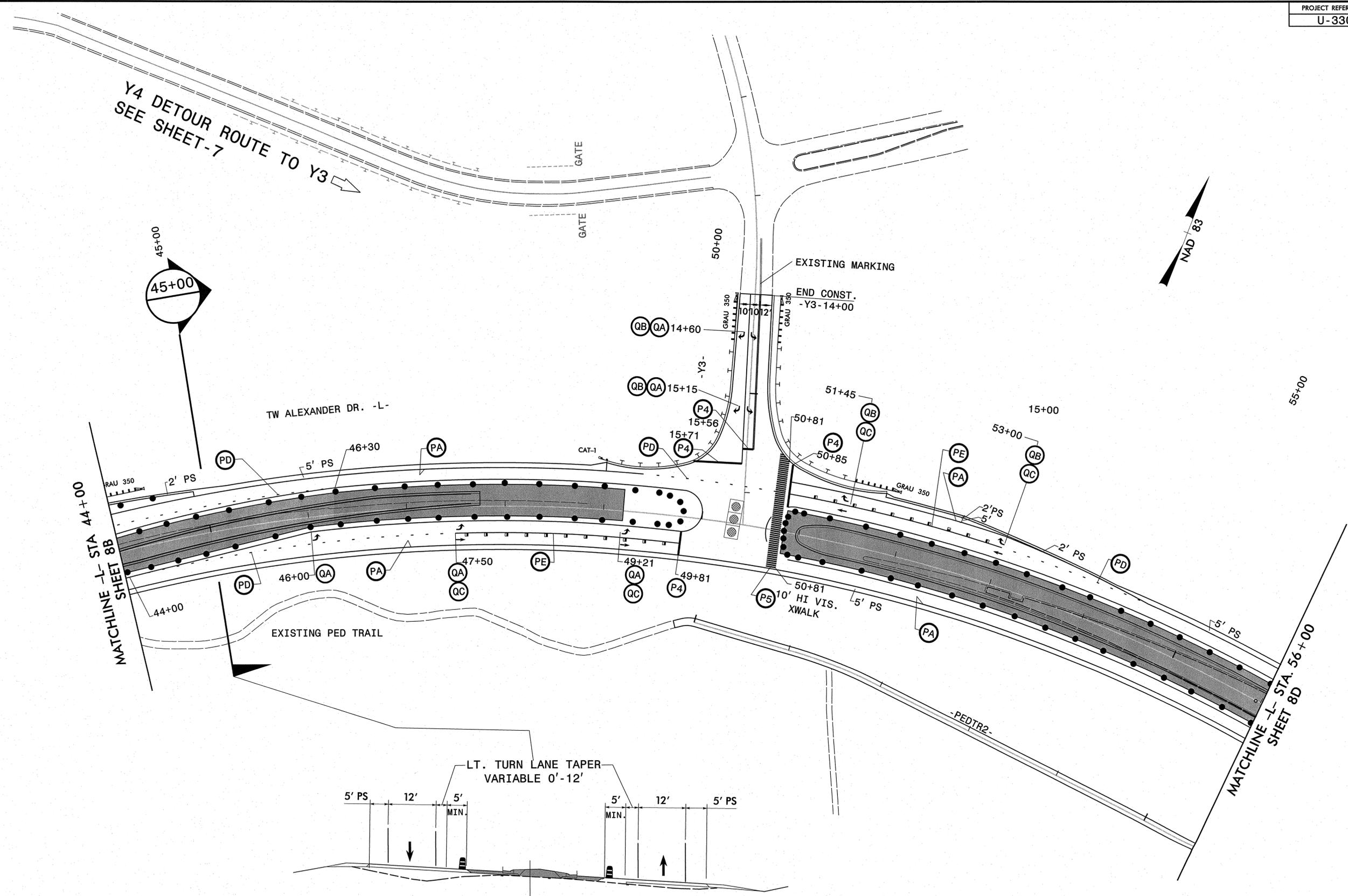
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45+00
-L-
PHASE III

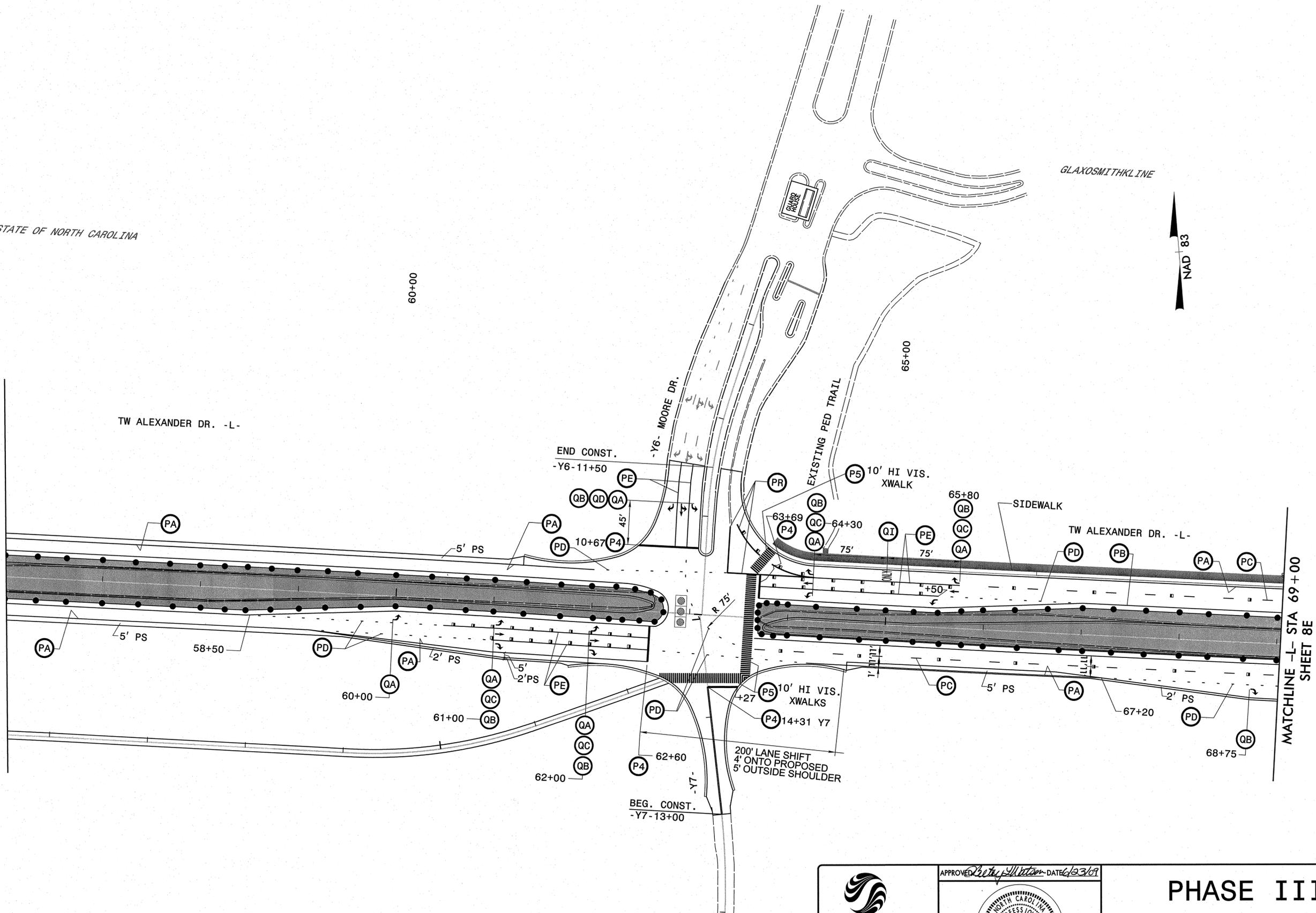


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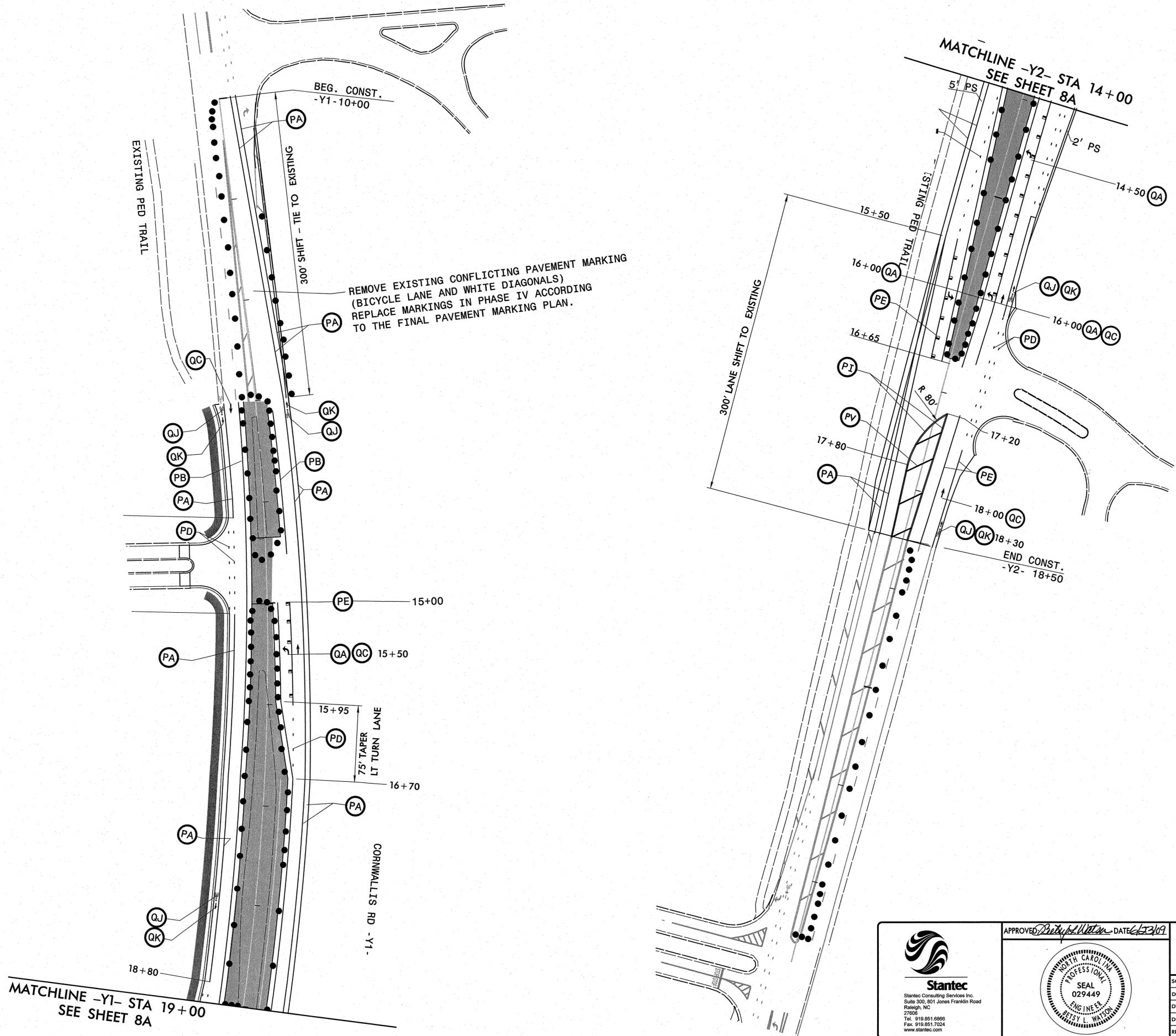
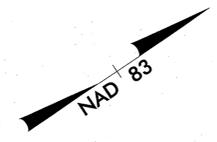
MATCHLINE -L- STA. 56+00
SHEET 8C



MATCHLINE -L- STA 69+00
SHEET 8E

6/23/2009
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