

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
(ZONE 2) U-4009	TCP-1

**PLAN FOR PROPOSED
TRAFFIC CONTROL, MARKING & DELINEATION
DURHAM COUNTY**

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

REFER TO MAIN TCP-1

INDEX OF SHEETS

(ZONE 2) PROJECT U-4009

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PM-2 & PM-3	FINAL PAVEMENT MARKING PLAN

LEGEND

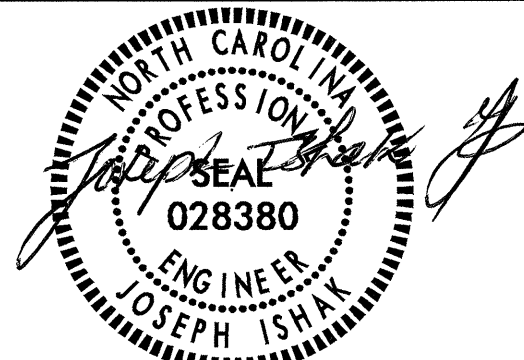
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U-4009

PROJECT

ZONE 2

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msteelman AT WZTC22462

APPROVED: _____ DATE: _____	PLAN PREPARED BY: N.C.D.O.T. TRAFFIC CONTROL, MARKING & DELINEATION SECTION
SEAL 	J. S. BOURNE, P.E. TRAFFIC CONTROL ENGINEER
	J. ISHAK, P.E. TRAFFIC CONTROL PROJECT ENGINEER
	M. HENDEE, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	ANITA B. ROPP TRAFFIC CONTROL DESIGN TECHNICIAN

March 28, 2007

PROJECT NOTES

PROJ. REFERENCE NO.	SHEET NO.
U-4009	TCP-2

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

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

ROAD NAME	DAY AND TIME RESTRICTIONS
US 15-501	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 P.M. SATURDAY AND SUNDAY 10:00 A.M. TO 9:00 P.M.
GARRETT RD.	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 P.M. SATURDAY AND SUNDAY 9:00 A.M. TO 9:00 P.M.

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

ROAD NAME

US 15-501
GARRETT RD.

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 9:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 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 9:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- FOR UNC-CHAPEL HILL AND DUKE GRADUATIONS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY OF THE WEEK OF THE UNC-CHAPEL HILL AND DUKE GRADUATIONS AND 9:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF THE UNC-CHAPEL HILL AND DUKE GRADUATIONS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US 15-501	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 P.M. SATURDAY AND SUNDAY 10:00 A.M. TO 9:00 P.M.	15 MINUTES FOR TRAFFIC SHIFTS AND TIE-INS
GARRETT RD.	MONDAY THRU FRIDAY 6:00 A.M. TO 9:00 P.M. SATURDAY AND SUNDAY 9:00 A.M. TO 9:00 P.M.	15 MINUTES FOR TRAFFIC SHIFTS AND TIE-INS

D) 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

E) 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.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN 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.

G) 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.

H) 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.

I) 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.

J) DO NOT INSTALL MORE THAN 0.5 MILE OF LANE CLOSURE ON US 15-501 AND GARRETT RD. MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

K) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON US 15-501 AND GARRETT RD..

PAVEMENT EDGE DROP OFF REQUIREMENTS

L) 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.

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

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

O) 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.

P) PROVIDE PERMANENT SIGNING.

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

TRAFFIC CONTROL DEVICES

R) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADIUS, 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.

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

T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES DRUMS PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	PERMANENT RAISED

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

W) 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.

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

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

Z) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE CONES TO DELINEATE ANY EXISTING AND PROPOSED MONOLITHIC ISLANDS AFTER REMOVAL AND BEFORE INSTALLATION

TEMPORARY / FINAL SIGNALS

AA) NOTIFY THE ENGINEER TWO (2) MONTHS BEFORE A TRAFFIC SIGNAL INSTALLATION BY OTHERS IS REQUIRED.

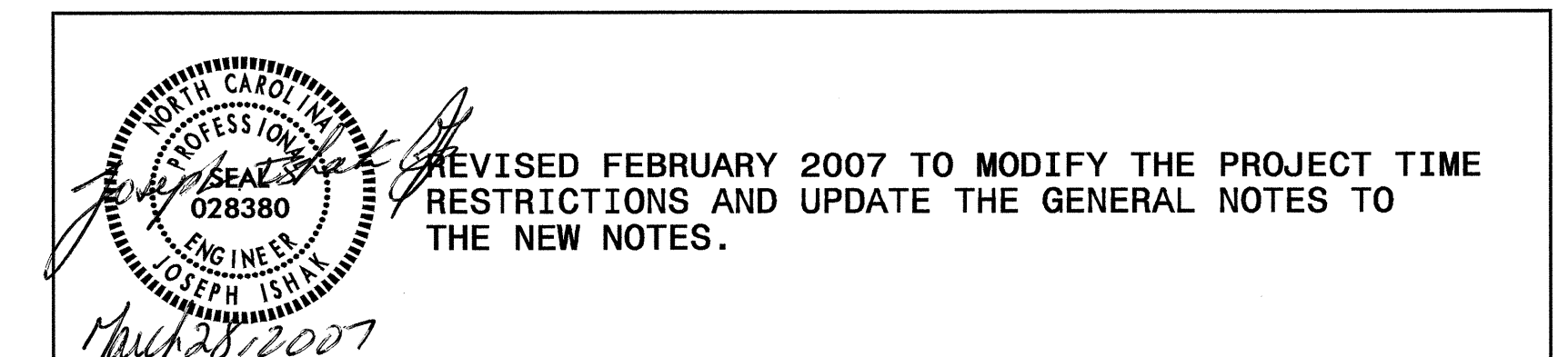
BB) SHIFT AND REVISE ALL SIGNAL HEADS AS SHOWN ON THE SIGNAL PLANS.

MISCELLANEOUS

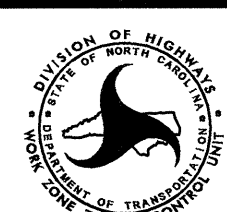
CC) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

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 AND 1000 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

EE) REFER TO MUTCD FOR PEDESTRIAN DETOUR CONSIDERATIONS.



REVISED FEBRUARY 2007 TO MODIFY THE PROJECT TIME RESTRICTIONS AND UPDATE THE GENERAL NOTES TO THE NEW NOTES.


APPROVED: _____	DATE: _____	PROJECT NOTES							
NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT, BUT ONLY AS TO THE REVISION. THIS PLAN ORIGINALLY ISSUED AND SEALED BY MITCHELL HENDEE, P.E., #027791, ON 2/17/04. THIS DOCUMENT ONLY CERTIFIED AS TO THE REVISIONS.									
SCALE: NONE	DATE: 2/23/07								
DWG. BY: MHS	DESIGN BY: MHS								
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TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM QUANTITY BREAKDOWN		TOTAL QUANTITY
		TEMPORARY PAVEMENT MARKINGS		
		PAINT (4")		
PA	WHITE EDGELINE (2X)	850	LF	
PC	10 FT. WHITE SKIP (2X)	1700	LF	
PD	2 FT. WHITE MINISKIP (2X)	930	LF	
PE	WHITE SOLID LANE LINE (2X)	5500	LF	
PF	10 FT. YELLOW SKIP (2X)	3125	LF	
PH	YELLOW SINGLE CENTER (2X)	15800	LF	
PI	YELLOW DOUBLE CENTER (2X)	15800	LF	
				TOTAL 43705 LF
		PAINT (6")		
PM	WHITE SOLID LANE LINE (2X)	400	LF	
				TOTAL 400 LF
		PAINT (8")		
PV	YELLOW DIAGONAL (2X)	150	LF	
PX	WHITE CROSSWALK LINE (2X)	400	LF	
				TOTAL 550 LF
		PAINT (24")		
P4	WHITE STOPBAR (2X)	1450	LF	
				TOTAL 1450 LF
		PAINT MARKING SYMBOLS		
QA	LEFT TURN ARROW (2X)	42	EA	
QB	RIGHT TURN ARROW (2X)	28	EA	
QC	STRAIGHT ARROW (2X)	22	EA	
QD	COMBO.STRAIGHT/LEFT (2X)	4	EA	
				TOTAL 96 EA
		MARKERS		
		TEMPORARY RAISED PAVEMENT MARKERS		
MH	YELLOW & YELLOW	250	EA	
MI	CRYSTAL & RED	175	EA	
				TOTAL 425 EA

TEMPORARY PAVEMENT MARKING SCHEDULE NOTES:

- AS DIRECTED BY THE ENGINEER, TEMPORARY PAVEMENT MARKING (PAINT) MAY BE USED TO STRIPE THE FINAL TRAFFIC PATTERN ON THE -L-, -Y2-, -NSR1- AND -NSR2- LINES. THE TEMPORARY PAVEMENT MARKING SCHEDULE SHOWN ON TCP-3 INCLUDES QUANTITIES FOR PLACING TWO APPLICATIONS OF PAINT ON THE FINAL SURFACE OF NEW ASPHALT WITH PERMANENT TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE UNTIL THE PROPOSED FINAL PAVEMENT MARKING (THERMOPLASTIC) IS APPLIED.
- FOR EACH PAINT PAVEMENT MARKING ITEM, 1X IMPLIES A SINGLE APPLICATION, 2X IMPLIES TWO APPLICATIONS AND 3X IMPLIES THREE APPLICATIONS.

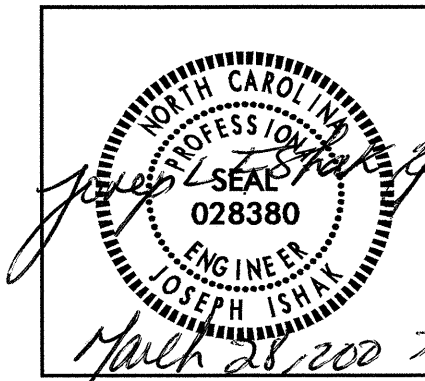
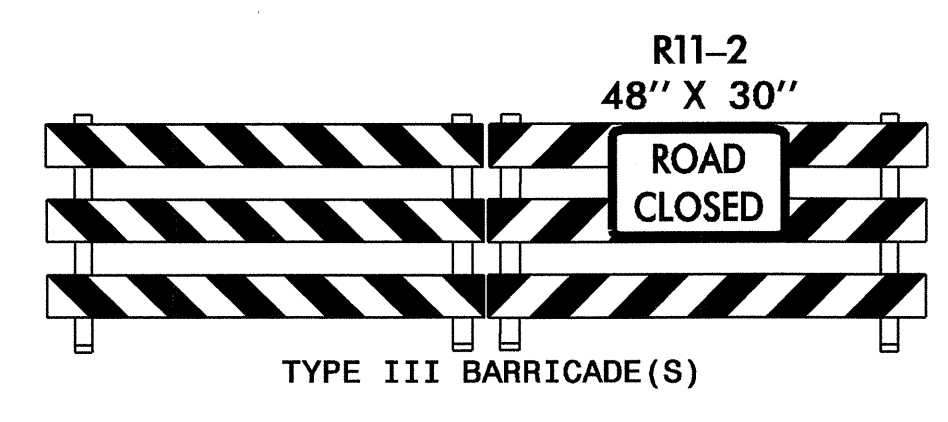
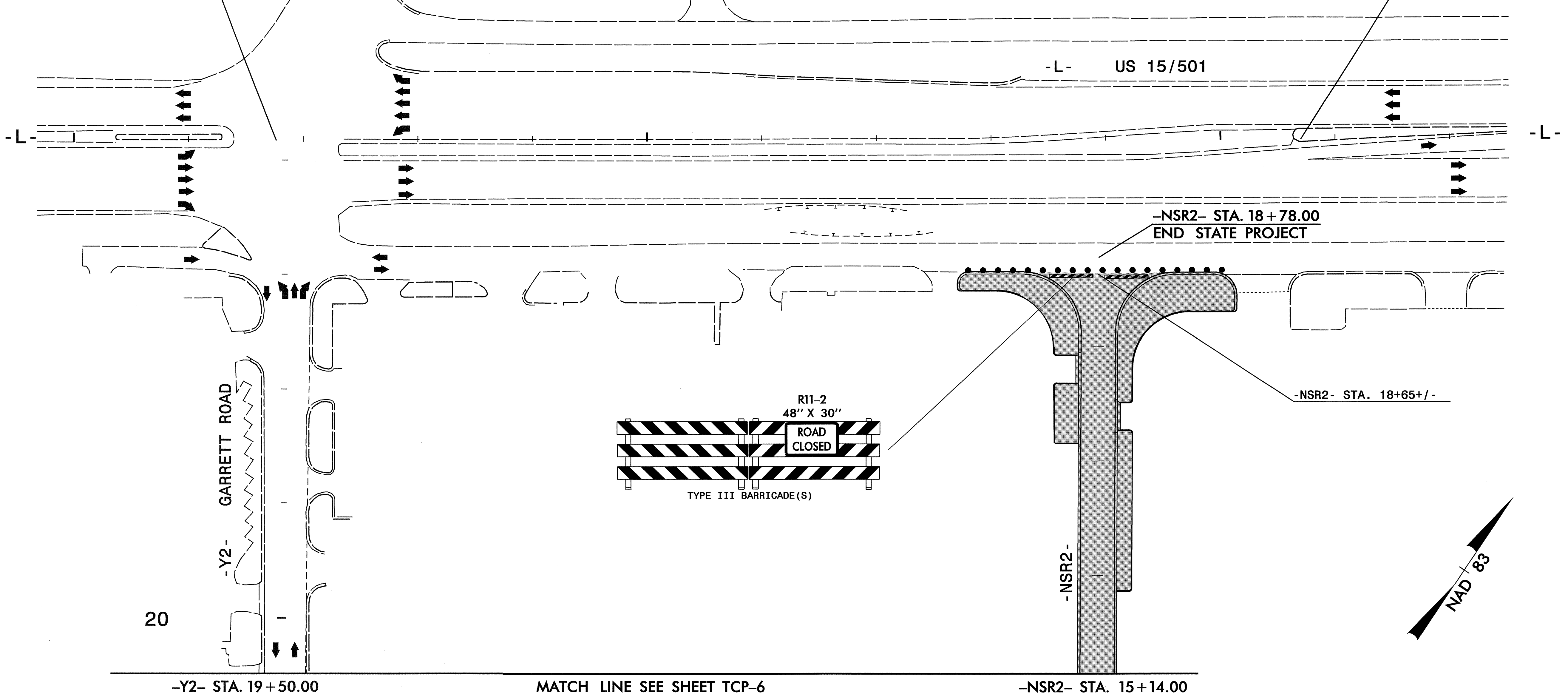

 REVISED FEBRUARY 2007 TO REMOVE THE OLD GENERAL NOTES FROM SHEET.

APPROVED: _____	DATE: _____	PROJECT NOTES "T" THRU "KK" AND TEMPORARY PAVEMENT MARKING SCHEDULE							
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 msteelman AT WZTC22462

-L- Sta. 86+86.79
BEGIN CONSTRUCTION
-Y2- Sta. 24+16.23
END CONSTRUCTION

-L- STA. 95+70.00
END CONSTRUCTION

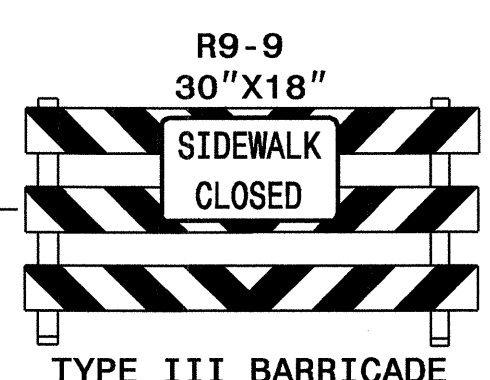
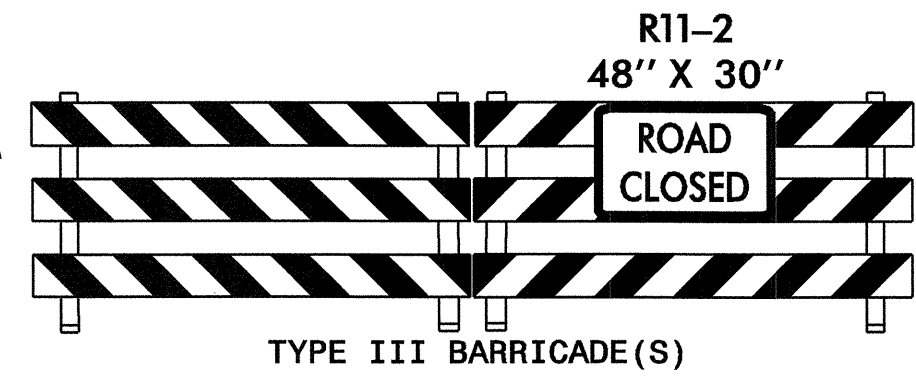
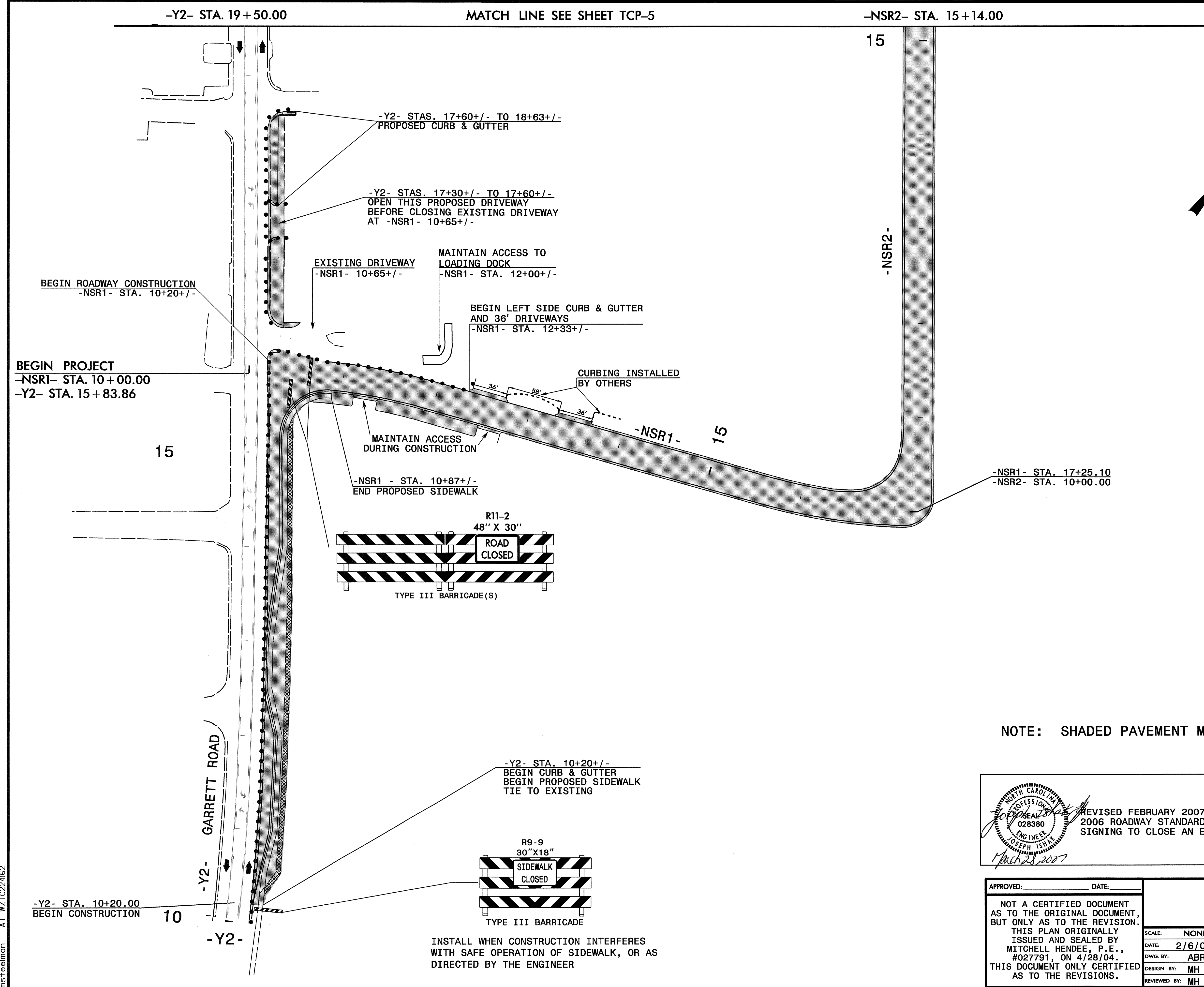


REVISED FEBRUARY 2007 TO UPDATE THE BARRICADES TO 2006 ROADWAY STANDARDS.

APPROVED: _____ DATE: _____
 NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT, BUT ONLY AS TO THE REVISION. THIS PLAN ORIGINALLY ISSUED AND SEALED BY MITCHELL HENDEE, P.E., #027791, ON 2/17/04. THIS DOCUMENT ONLY CERTIFIED AS TO THE REVISIONS.

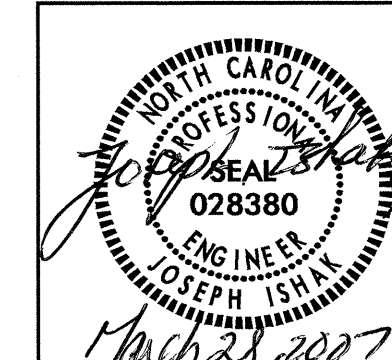
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REVIEWED BY: MH			

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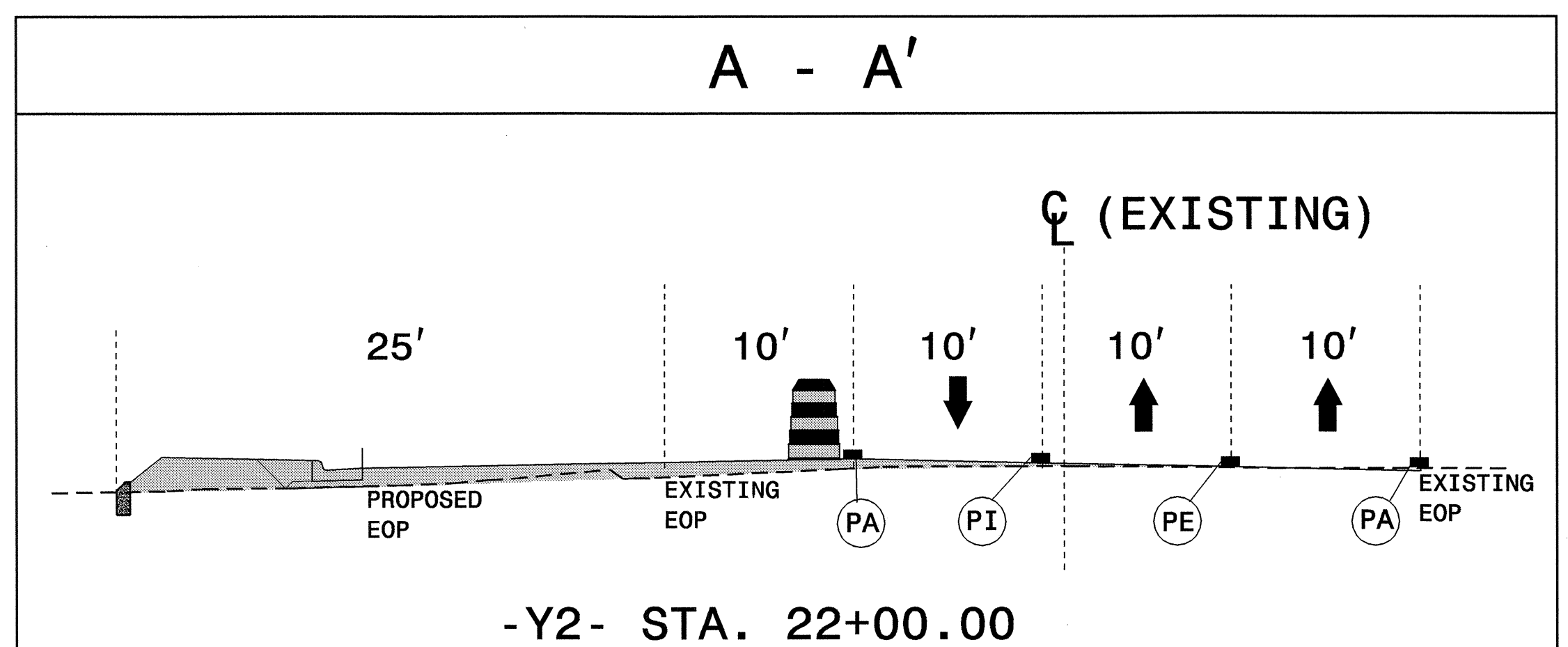
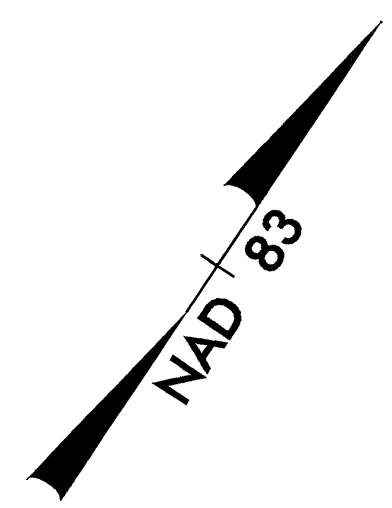
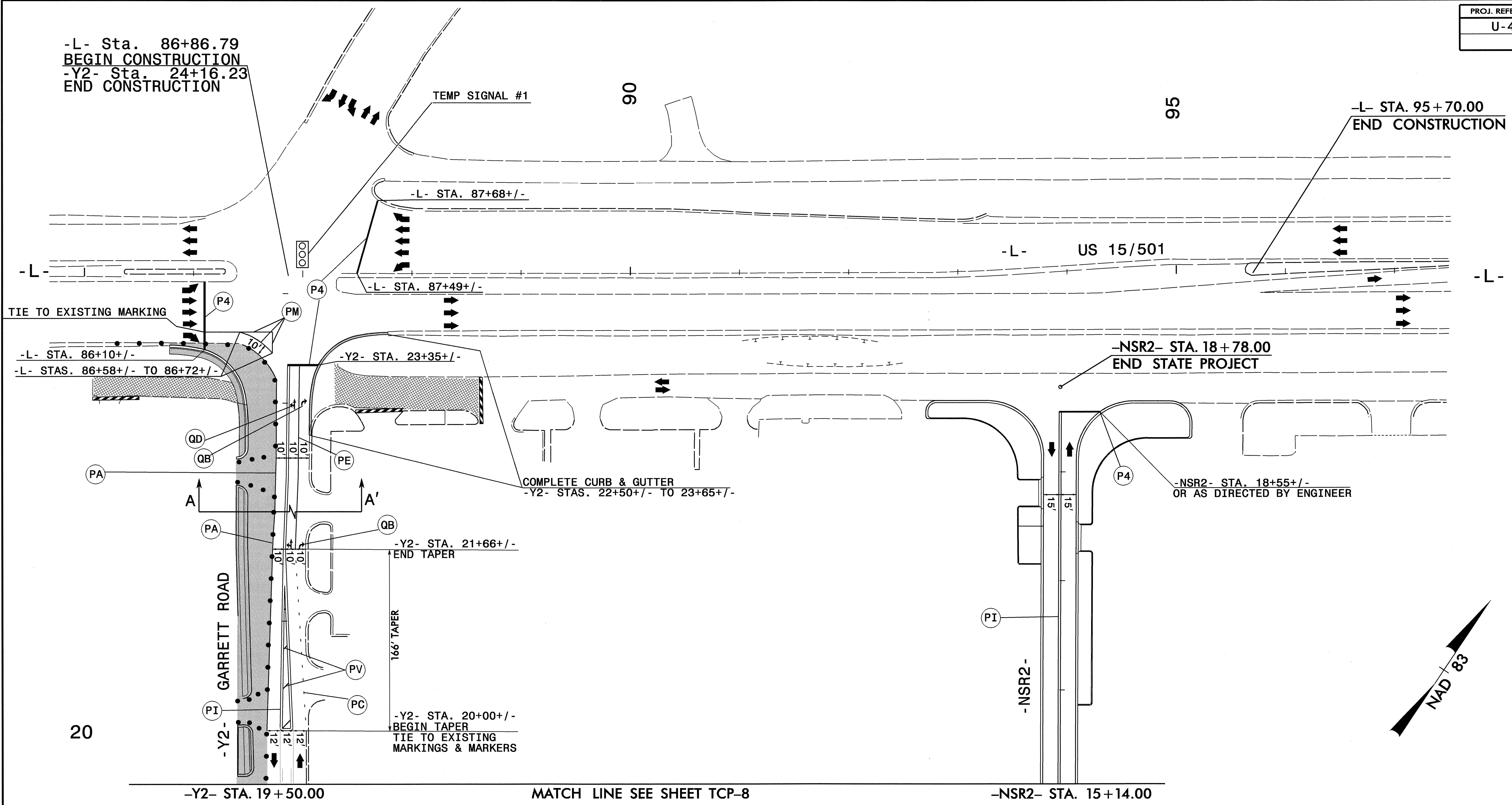
NOTE: SHADED PAVEMENT MARKINGS = EXISTING

REVISED FEBRUARY 2007 TO UPDATE THE BARRICADES TO 2006 ROADWAY STANDARDS AND ADD A BARRICADE WITH SIGNING TO CLOSE AN EXISTING SIDEWALK.



APPROVED: _____ DATE: _____	DETAIL 2	
NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT, BUT ONLY AS TO THE REVISION. THIS PLAN ORIGINALLY ISSUED AND SEALED BY MITCHELL HENDEE, P.E., #027791, ON 4/28/04. THIS DOCUMENT ONLY CERTIFIED AS TO THE REVISIONS.	SCALE: NONE	REVISIONS
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	REVIEWED BY: MH	

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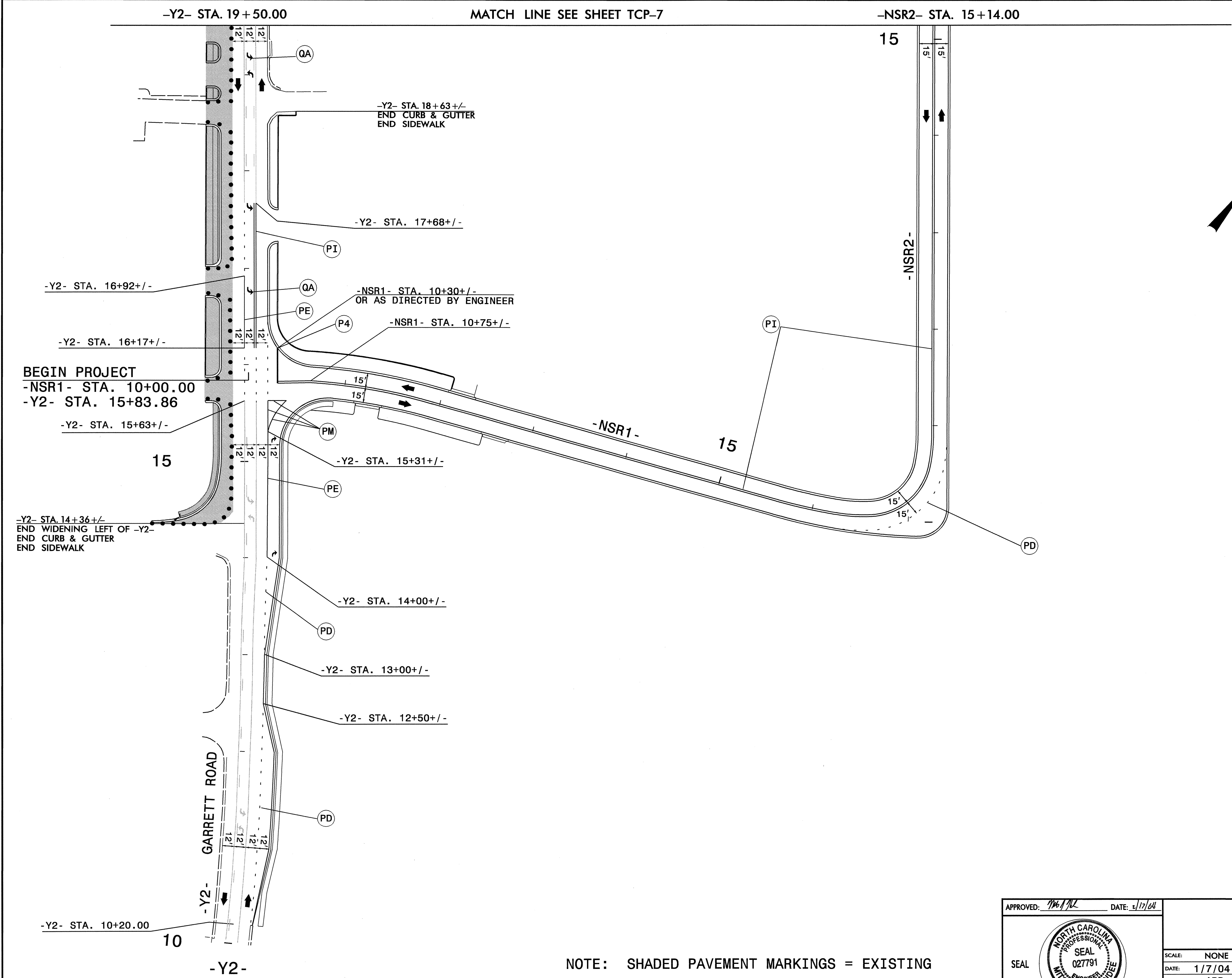


NOTE: SHADED PAVEMENT MARKINGS = EXISTING

APPROVED: <i>MH</i>	DATE: 2/17/04	DETAIL 3	
		DATE: 2/6/04	REVISIONS
DESIGN BY: ABR			
REVIEWED BY: MH			

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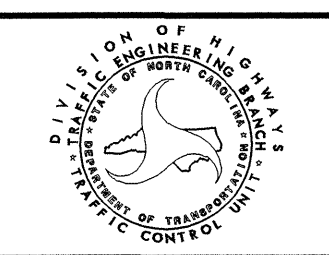
PROJ. REFERENCE NO.	SHEET NO.
U-4009	TCP-8



BEGIN PROJECT
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 -Y2- STA. 15+83.86

NOTE: SHADED PAVEMENT MARKINGS = EXISTING

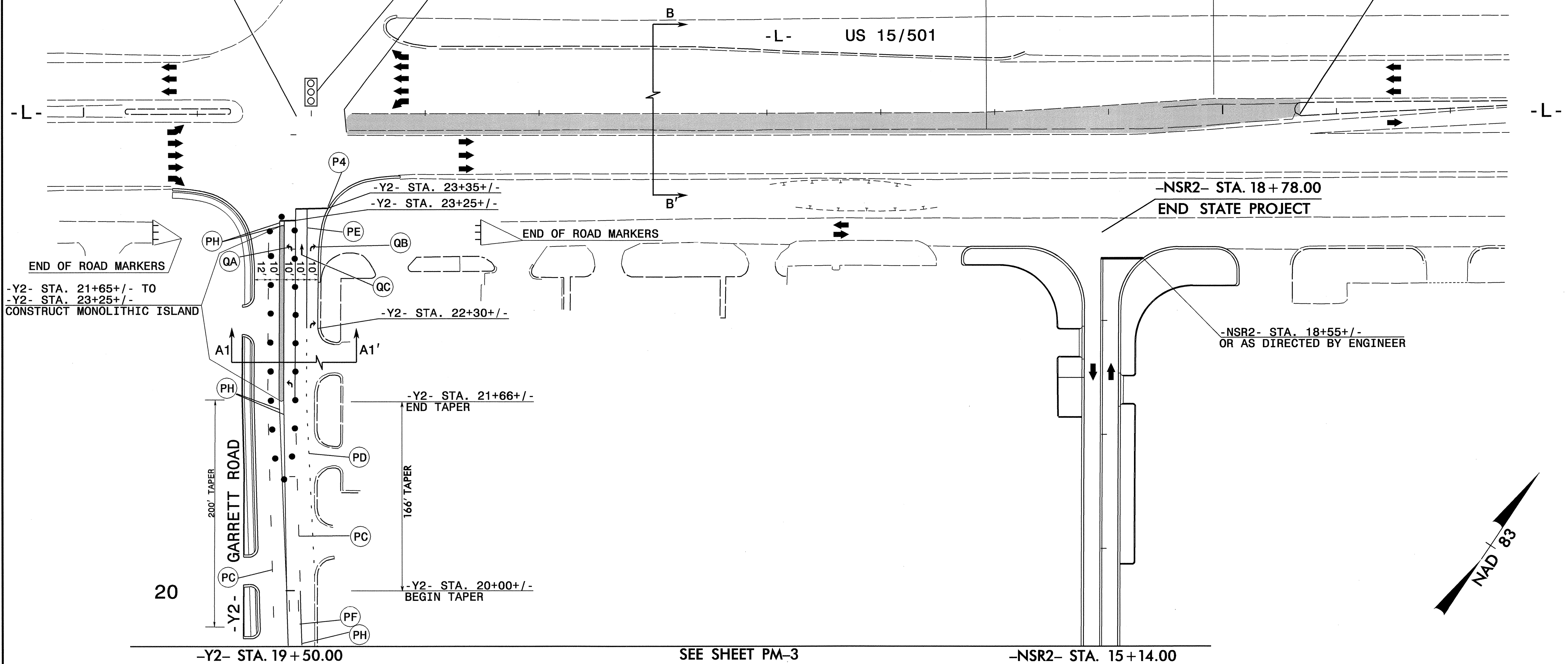
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 ST PDP AT TELC02274

APPROVED: <i>MH</i>	DATE: 1/17/04	DETAIL 4	
			
SCALE: NONE	DATE: 1/7/04		REVISIONS
DWG. BY: ABR	DESIGN BY: ABR		
REVIEWED BY: MH			

-L- Sta. 86+86.79
BEGIN CONSTRUCTION
-Y2- Sta. 24+16.23
END CONSTRUCTION

TEMP SIGNAL #2
-L- STA. 87+30.00+/-
BEGIN MONOLITHIC ISLAND
BEGIN LANE CONSTRUCTION

-L- STA. 95+70.00
END MONOLITHIC ISLAND
END LANE CONSTRUCTION



-Y2- STA. 21+65+/- TO
-Y2- STA. 23+25+/-
CONSTRUCT MONOLITHIC ISLAND

-NSR2- STA. 18+78.00
END STATE PROJECT

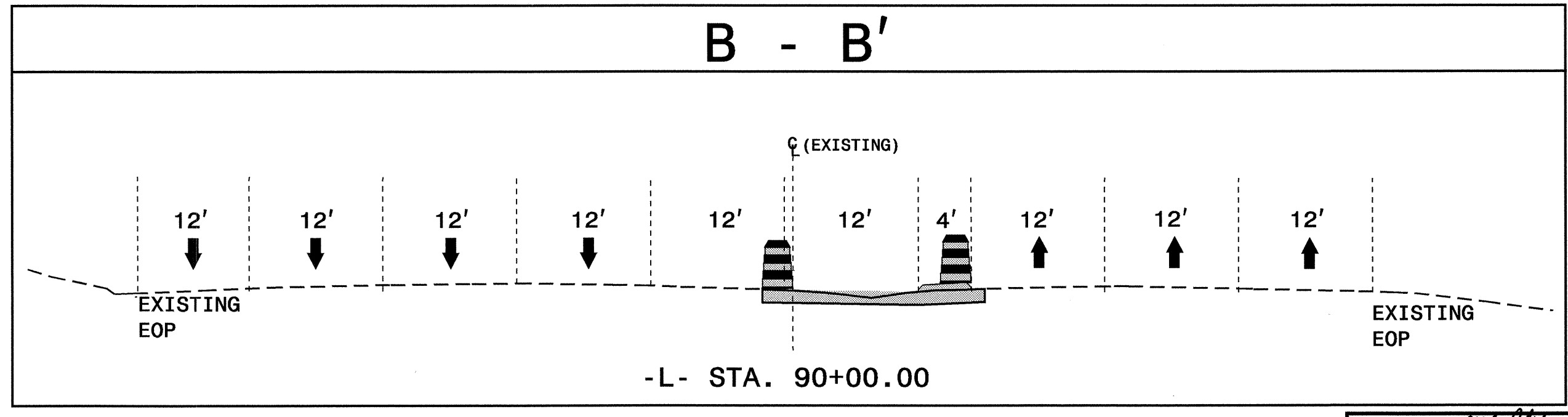
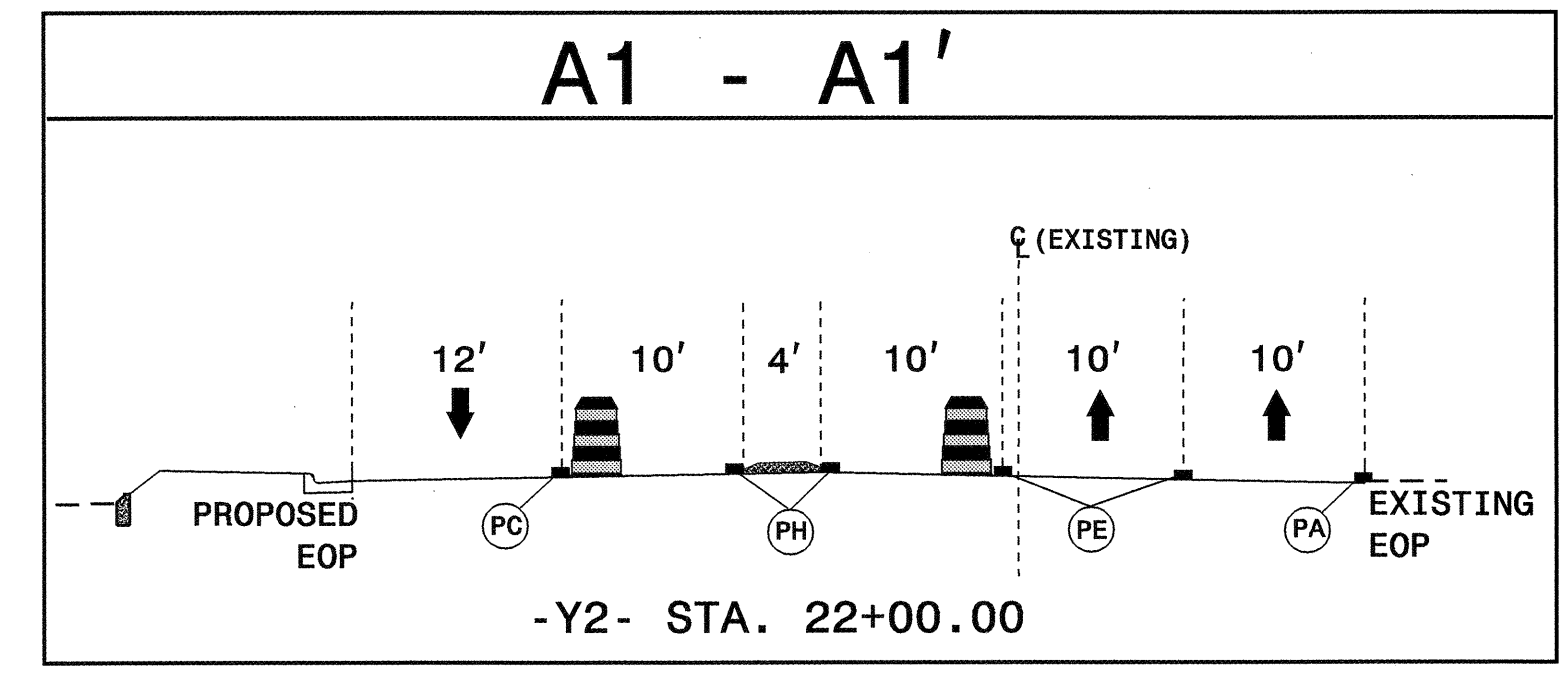
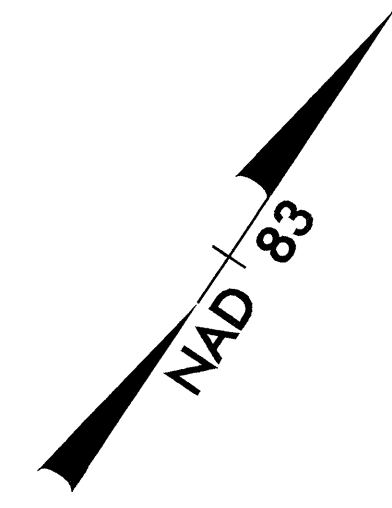
-NSR2- STA. 18+55+/-
OR AS DIRECTED BY ENGINEER

20

-Y2- STA. 19+50.00

SEE SHEET PM-3

-NSR2- STA. 15+14.00

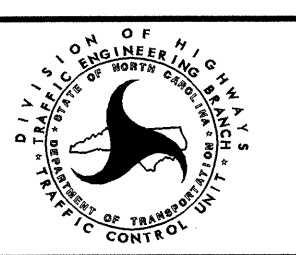


APPROVED: *Mitchell J. Tevdee* DATE: 2/17/04



DETAIL 5

SCALE: NONE
DATE: 2/6/04
DWG. BY: ABR
DESIGN BY: MH
REVIEWED BY: MH



REVISIONS	

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