

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
U-3303	TCP-1

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

ALAMANCE COUNTY

U-3303

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 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
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
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
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
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - (TEMPORARY & PERMANENT)
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

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
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TCP-2A	DRIVEWAY DETAIL
TCP-3 & TCP-3A	PHASING
OV-1 AND OV-2	TRAFFIC OPERATION OVERVIEW
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TCP-25	RE-TIMED SIGNAL MAP
TCP-26	ADVANCED WORK ZONE WARNING SIGNS
SD-1	SPECIAL SIGN DESIGN DETAIL
PM-1	FINAL PAVEMENT MARKING SCHEDULE
PM-2 THRU PM-10	FINAL PAVEMENT MARKING PLAN

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**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
 - YELLOW/YELLOW PAVEMENT MARKER
 - CRYSTAL/RED PAVEMENT MARKER
 - PAVEMENT MARKING SYMBOLS

TIP PROJECT:

16-DEC-2008 08:18 \\dot\dfsroot\01\proj\TIPproj\projects-u\3303a\Traffic\Trafficcontrol\top\one lane one way\U33031_tc_btop.dgn de\char-dson AT WZTC237460

APPROVED:	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
DATE: <i>December 16, 2008</i>	
SEAL	J. S. BOURNE, PE TRAFFIC CONTROL ENGINEER
	J. S. KITE, PE TRAFFIC CONTROL PROJECT ENGINEER
	D. A. PARKER TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	D. E. RICHARDSON TRAFFIC CONTROL DESIGN ENGINEER

PROJECT NOTES

PROJ. REFERENCE NO.	SHEET NO.
U-3303	TCP-2

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 UNDESIRE 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
1) -Y- HUFFMAN MILL RD	MONDAY THRU SATURDAY 7:00AM TO 10:00PM
2) -Y1- NC 62/ALAMANCE RD	AND SUNDAY 12:00 NOON TO 8:00PM
3) -Y14- NC 54/CHAPEL HILL RD	

B) 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

- 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 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.
- E) 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 QR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

PAVEMENT EDGE DROP OFF REQUIREMENTS

F) 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.

G) 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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- I) 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.
- J) PROVIDE PERMANENT SIGNING.
- K) PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- L) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- N) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- O) 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.
- P) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- Q) 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.
- R) TWICE DAILY INSPECTION OF TRAFFIC CONTROL DEVICES SHALL BE REQUIRED TO ENSURE DEVICES ARE IN COMPLIANCE WITH ONE-WAY PATTERNS AS SHOWN IN THE PLANS.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	PERMANENT RAISED

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED

U) 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.

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

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

X) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

TEMPORARY / FINAL SIGNALS

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

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

MISCELLANEOUS

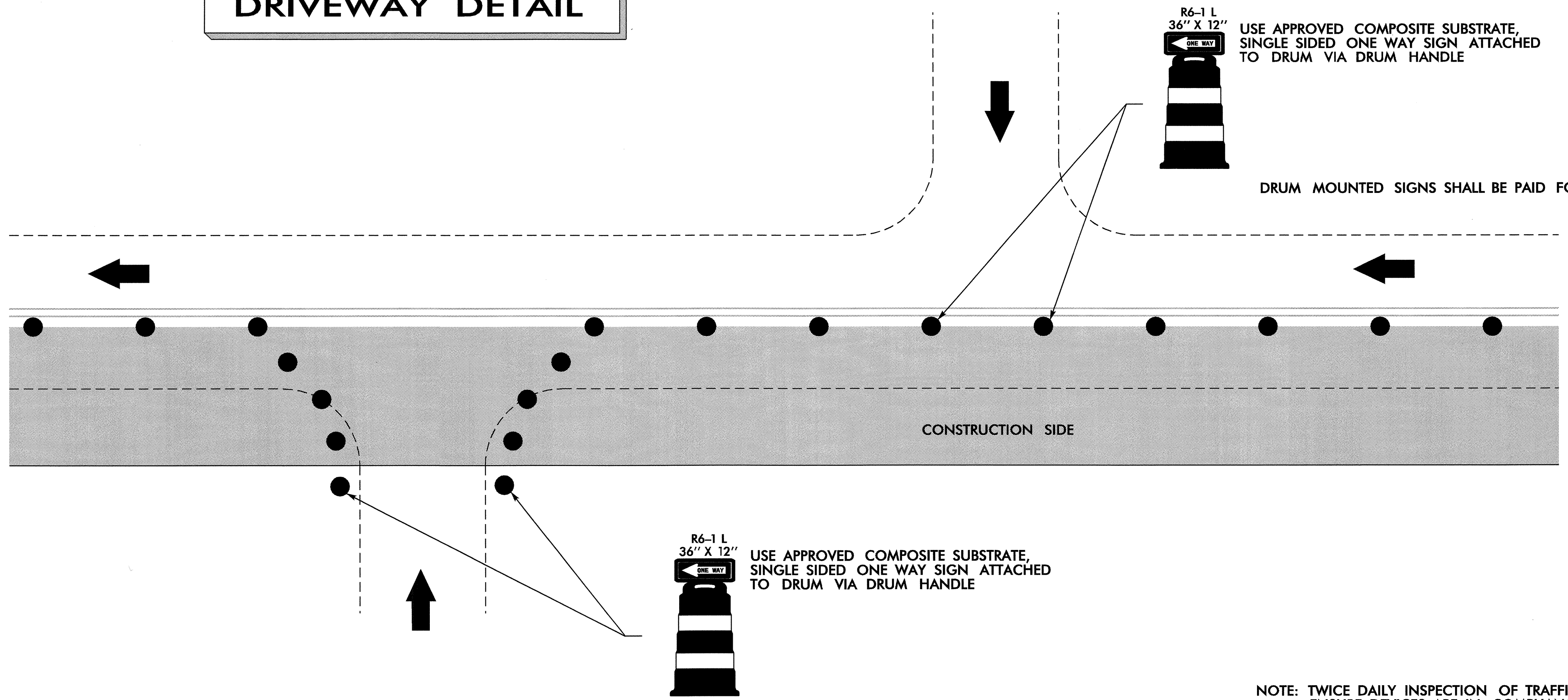
BB) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

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DRIVEWAY DETAIL

NOTE: THE DRUMS FACING DRIVES ON THE NON-CONSTRUCTION SIDE SHALL HAVE THE ONE WAY SIGNS ATTACHED.



R6-1 L
36" X 12"
ONE WAY

USE APPROVED COMPOSITE SUBSTRATE,
SINGLE SIDED ONE WAY SIGN ATTACHED
TO DRUM VIA DRUM HANDLE

DRUM MOUNTED SIGNS SHALL BE PAID FOR AS "BARRICADE MOUNTED SIGNS".

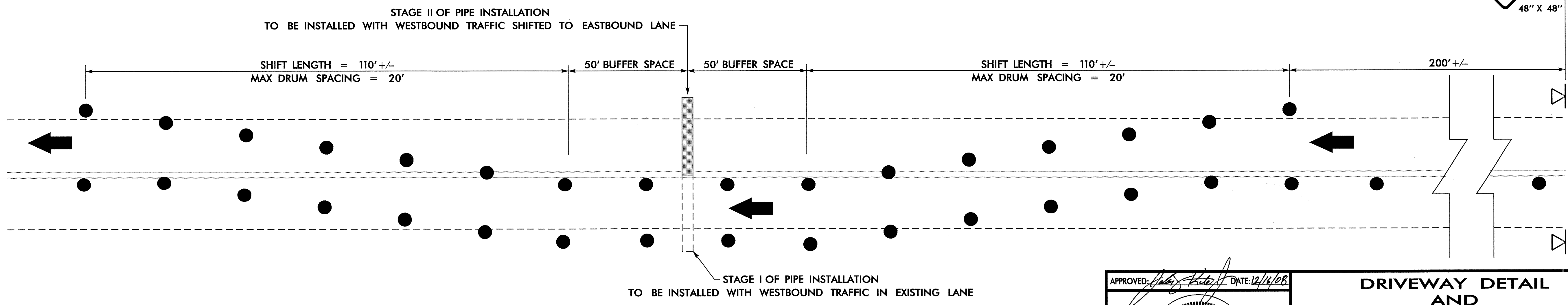
R6-1 L
36" X 12"
ONE WAY

USE APPROVED COMPOSITE SUBSTRATE,
SINGLE SIDED ONE WAY SIGN ATTACHED
TO DRUM VIA DRUM HANDLE

NOTE: THE FIRST 2 DRUMS AT DRIVES SHALL HAVE THE ONE WAY SIGNS ATTACHED.

NOTE: TWICE DAILY INSPECTION OF TRAFFIC CONTROL DEVICES SHALL BE REQUIRED TO ENSURE DEVICES ARE IN COMPLIANCE WITH ONE-WAY PATTERNS AS SHOWN IN THE PLANS.

PIPE INSTALLATION DETAIL



SHIFT LENGTH = 110' +/-
MAX DRUM SPACING = 20'

50' BUFFER SPACE

SHIFT LENGTH = 110' +/-
MAX DRUM SPACING = 20'

200' +/-

STAGE I OF PIPE INSTALLATION
TO BE INSTALLED WITH WESTBOUND TRAFFIC IN EXISTING LANE

APPROVED: *[Signature]* DATE: 12/16/08

SEAL

DRIVEWAY DETAIL AND PIPE INSTALLATION DETAIL

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PHASING (CONT'D)

PROJ. REFERENCE NO.	SHEET NO.
U-3303	TCP-3A

PHASE II

NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS. (SEE TCP-12, 13, 16, 17, 19 AND 25.)

MAJOR TRAFFIC SHIFT (2 WEEKS PRIOR TO SHIFT, PLACE CMS BOARDS TO ADVISE OF UPCOMING TRAFFIC PATTERN CHANGE.)

NOTE: THE CONTRACTOR SHALL WORK IN A CONTINUOUS MANNER TO COMPLETE STEPS 1 THRU 4 IN ONE WORK PERIOD.

STEP 1 - USING A PILOT CAR, FLAGGERS, AND POLICE TO DIRECT TRAFFIC AT INTERSECTIONS, CLOSE ALL WESTBOUND LANES OF -L- (MEBANE ST) IN THE FOLLOWING ORDER:

- A) -Y14- NC 54
- B) -Y10- TRAIL EIGHT AND -Y11- TRAIL EIGHT
- C) -Y4- TRAIL TWO AND -Y5- TRAIL TWO (RE-TIME SIGNAL PER SIGNAL PLANS)
- D) -Y2- TRAIL ONE AND -Y3- TRAIL ONE
- E) -Y1- NC 62 (RE-TIME SIGNAL PER SIGNAL PLANS)
- F) -Y8- MAY DR
- G) -Y6- DELANEY DR (RE-TIME SIGNAL PER SIGNAL PLANS)
- H) -Y5- CARDWELL DR
- I) -Y3- CATHERINE ST
- J) -Y- HUFFMAN MILL RD (RE-TIME SIGNAL PER SIGNAL PLANS)

- USING A PILOT CAR, FLAGGERS, AND POLICE, PLACE TRAFFIC INTO EASTBOUND LANES ONLY. (ACCESS LIMITED TO EASTBOUND LANES FROM -Y- LINES AND DRIVEWAYS. SEE TCP-12 THRU TCP-19.)

STEP 2 - UPON SHIFTING TRAFFIC TO A ONE LANE, EASTBOUND ONLY TRAFFIC PATTERN ON -L- (MEBANE ST) ADJUST STOP BARS AND STOP SIGNS OR SIGNALS AT THE FOLLOWING -Y- LINES:

- Y3- CATHERINE ST
- Y5- CARDWELL DR
- Y6- DELANEY DR
- Y8- MAY DR
- Y1- NC 62
- Y2- TRAIL ONE
- Y3- TRAIL ONE
- Y4- TRAIL TWO
- Y5- TRAIL TWO
- Y10- TRAIL EIGHT
- Y11- TRAIL EIGHT
- Y14- NC 54

STEP 3 - AWAY FROM TRAFFIC, AS MUCH AS POSSIBLE, COMPLETE THE REMAINING DRAINAGE INSTALLATION AND CONSTRUCT WESTBOUND SIDE OF -L- (MEBANE ST) UP TO, BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE TCP-12 THRU TCP-19.)

NOTE: SEE TCP-2A FOR "DRIVEWAY DETAIL" DEPICTING DRUM MOUNTED "ONE WAY" SIGNS. TWICE DAILY INSPECTION OF THESE SIGNS SHALL BE REQUIRED.

PHASE III

NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS. (SEE TCP-20, 21, 22, 23 AND 25.)

STEP 1 - PLACE TEMPORARY PAINT MARKINGS FOR THE PHASE III TRAFFIC AS FOLLOWS

FOR THE WESTBOUND DIRECTION OF MEBANE ST (CURRENTLY CLOSED) PLACE TEMPORARY PAINT MARKINGS ON THE UP TO BUT NOT INCLUDING LAYER IN THE FINAL TRAFFIC PATTERN FOR THE WESTBOUND DIRECTION AS SHOWN ON SHEETS PM-2 THRU PM-10 AND TCP-20 THRU TCP-23.

FOR THE EASTBOUND DIRECTION OF MEBANE ST. (CURRENTLY OPEN TO ONE LANE, ONE WAY HEADING EASTBOUND) ADJUST AND/OR PLACE TEMPORARY PAINT MARKINGS AT SIGNALIZED INTERSECTIONS AS SHOWN ON SHEETS TCP-20 THRU TCP-23.

STEP 2 - USING A PILOT CAR, FLAGGERS, AND POLICE TO DIRECT TRAFFIC AT INTERSECTIONS, OPEN BOTH DIRECTIONS OF -L- (MEBANE ST) TO PHASE III TRAFFIC PATTERN (TRAFFIC PLACED IN OUTSIDE LANES ONLY WITH INSIDE LANES DRUMMED OFF) (SEE TCP-20 THRU TCP-23.)

- RE-TIME ALL NECESSARY SIGNALS PER SIGNAL PLANS.

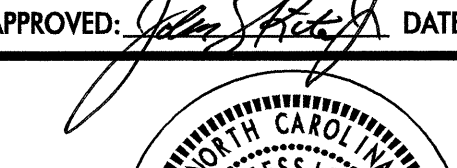
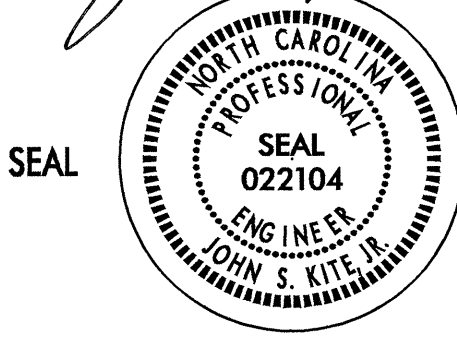

STEP 3 - WITH THE INSIDE LANES DRUMMED OFF, CONSTRUCT ALL CONCRETE MEDIAN ISLANDS.

STEP 4 - USING RSD 1101.02, SHEET 1 AND 3 OF 9, PLACE THE FINAL LAYER OF SURFACE COURSE ON ALL ROADS.

STEP 5 - USING RSD 1101.02, SHEET 1 AND 3 OF 9, PLACE THE FINAL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON ALL ROADS. (SEE PM-1 THRU PM-10 AND SIGNAL PLANS.)

STEP 6 - REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES AND OPEN THE PROJECT TO THE FINAL TRAFFIC PATTERN.

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	DATE: 11/08		
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TRAFFIC OPERATION PLAN - PHASE I

PROJ. REFERENCE NO.	SHEET NO.
U-3303	OV-1



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PROJECT SUMMARY:

THIS PROJECT UTILIZES ROAD CLOSURES AND A SERIES OF ONE WAY TRAFFIC PATTERNS IN ORDER TO ACCELERATE CONSTRUCTION.

PHASE I PLACES MEBANE STREET IN A ONE LANE, ONE WAY PATTERN IN THE WESTBOUND DIRECTION. THE PROPOSED EASTBOUND WIDENING IS TO BE CONSTRUCTED.

THE MAJORITY OF -Y- LINES WILL BE CLOSED DURING CONSTRUCTION.

APPROVED: DATE: 12/4/08	PHASE I OVERVIEW	SCALE: NONE DATE: 12/08 DWG. BY: DR DESIGN BY: DR REVIEWED BY:	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <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>				

MEBANE ST
CLOSED
AHEAD

NO LEFT
TURNS AT
MEBANE

CMS TO BE PLACED APPROX 500'
PRIOR TO INTERSECTION PER ENGINEER

NO LEFT
TURNS AT
MEBANE ST
SEE SD-1

ROAD
CLOSED

W20-3
48" X 48"

NEXT LEFT

SP-4L
42" X 12"

R3-1
24" X 24"

NOTE: INSTALL R3-1 TO
SPAN WIRE
FACING APPROACHING
TRAFFIC.

MEBANE ST
CLOSED
AHEAD

NO RIGHT
TURNS AT
MEBANE

CMS TO BE PLACED APPROX 500'
PRIOR TO INTERSECTION PER ENGINEER

SEE TCP-24 FOR DETOUR ROUTE.
(PROPOSED 36" PIPE)

R3-2
24" X 24"

NOTE: INSTALL R3-2 TO
SPAN WIRE
FACING APPROACHING
TRAFFIC.

WRONG
WAY

R5-1 A
36" X 24"

SEE TCP-24A FOR DETOUR ROUTE.
(PROPOSED PIPE SYSTEM)

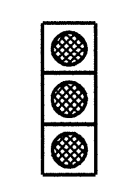
ROAD
CLOSED

W20-3
48" X 48"

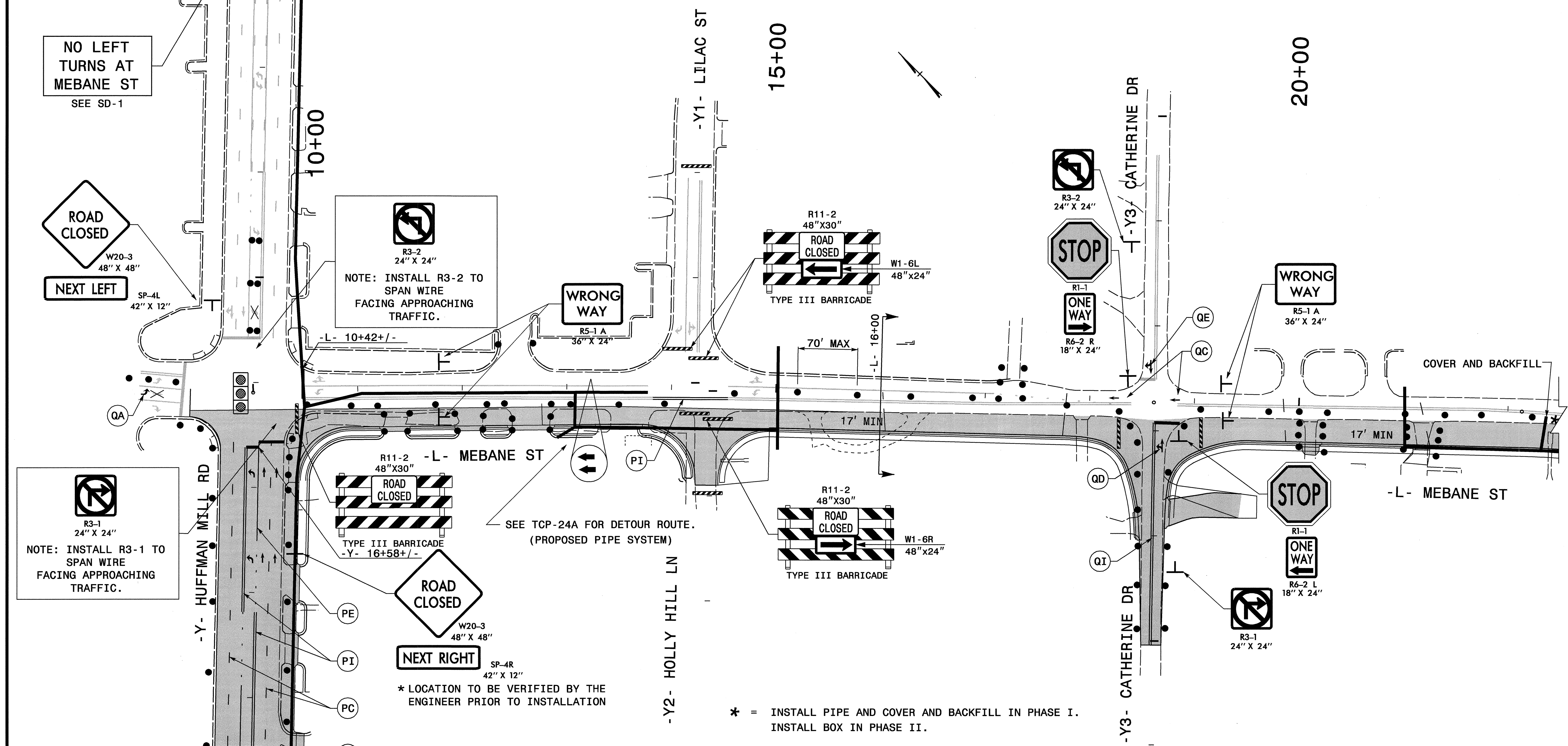
NEXT RIGHT

SP-4R
42" X 12"

NO RIGHT
TURNS AT
MEBANE ST
SEE SD-1

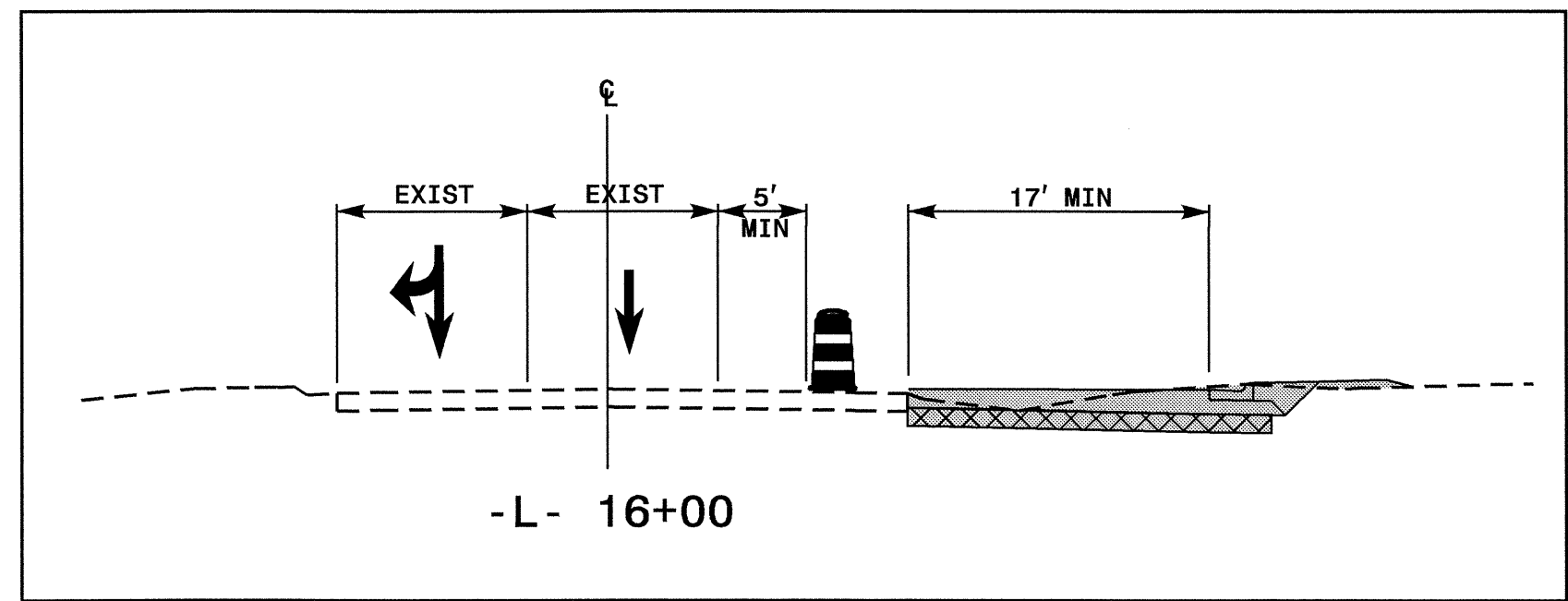


= EXISTING SIGNAL TO BE RE-TIMED FOR NEW TRAFFIC PATTERN
NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS



* LOCATION TO BE VERIFIED BY THE
ENGINEER PRIOR TO INSTALLATION


* = INSTALL PIPE AND COVER AND BACKFILL IN PHASE I.
INSTALL BOX IN PHASE II.

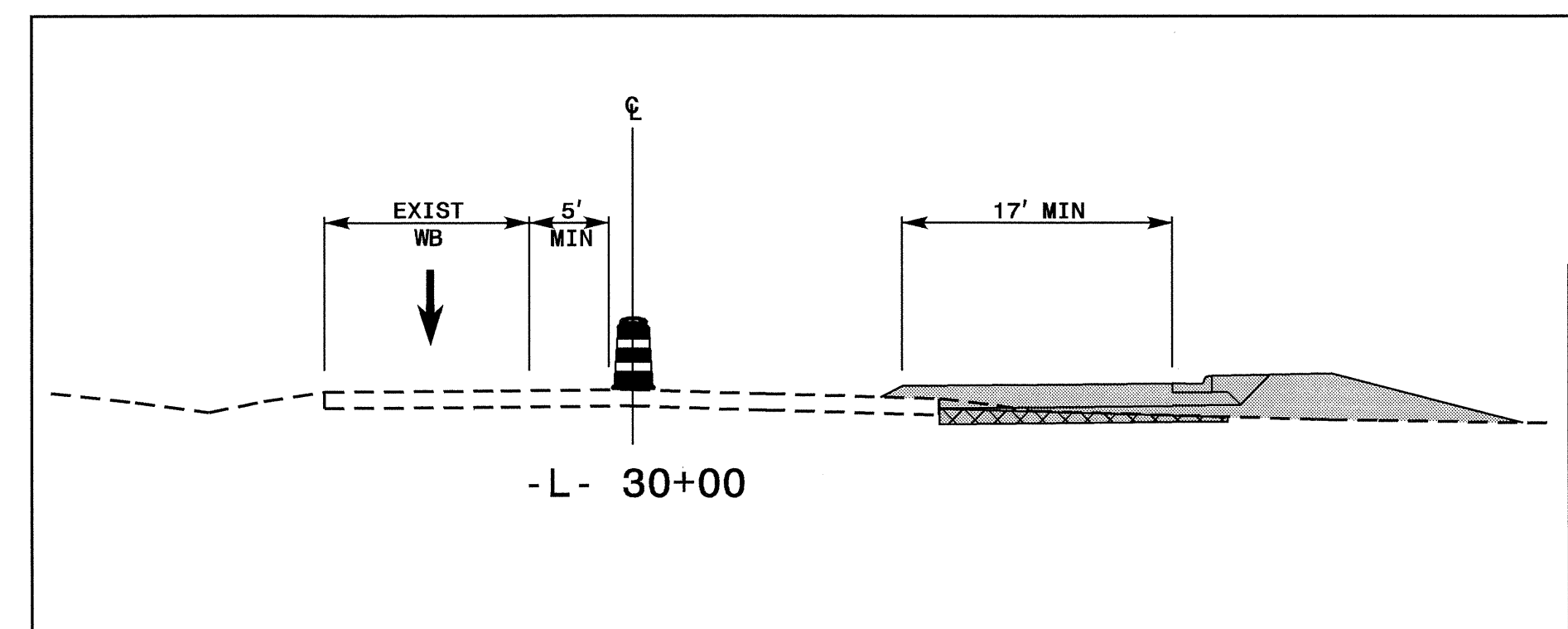
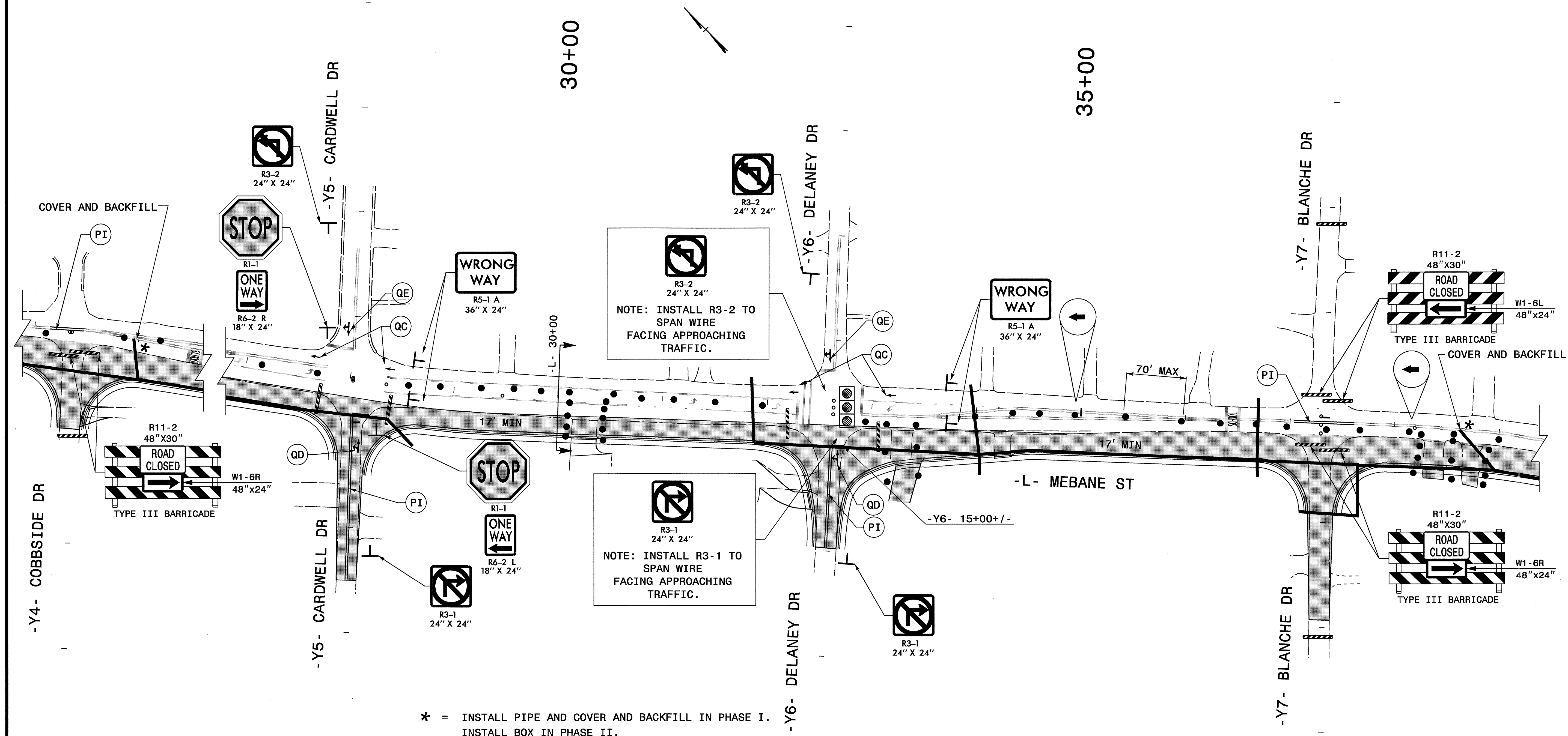


SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALATION.




APPROVED:	DATE: 12/16/08	PHASE I	
SCALE: NONE	DATE: 08/08		REVISIONS
DWG. BY: DR	DESIGN BY:		
REVIEWED BY: DP			

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 AT WZTC237460
 derichardson

 = EXISTING SIGNAL TO BE RE-TIMED FOR NEW TRAFFIC PATTERN
 NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS

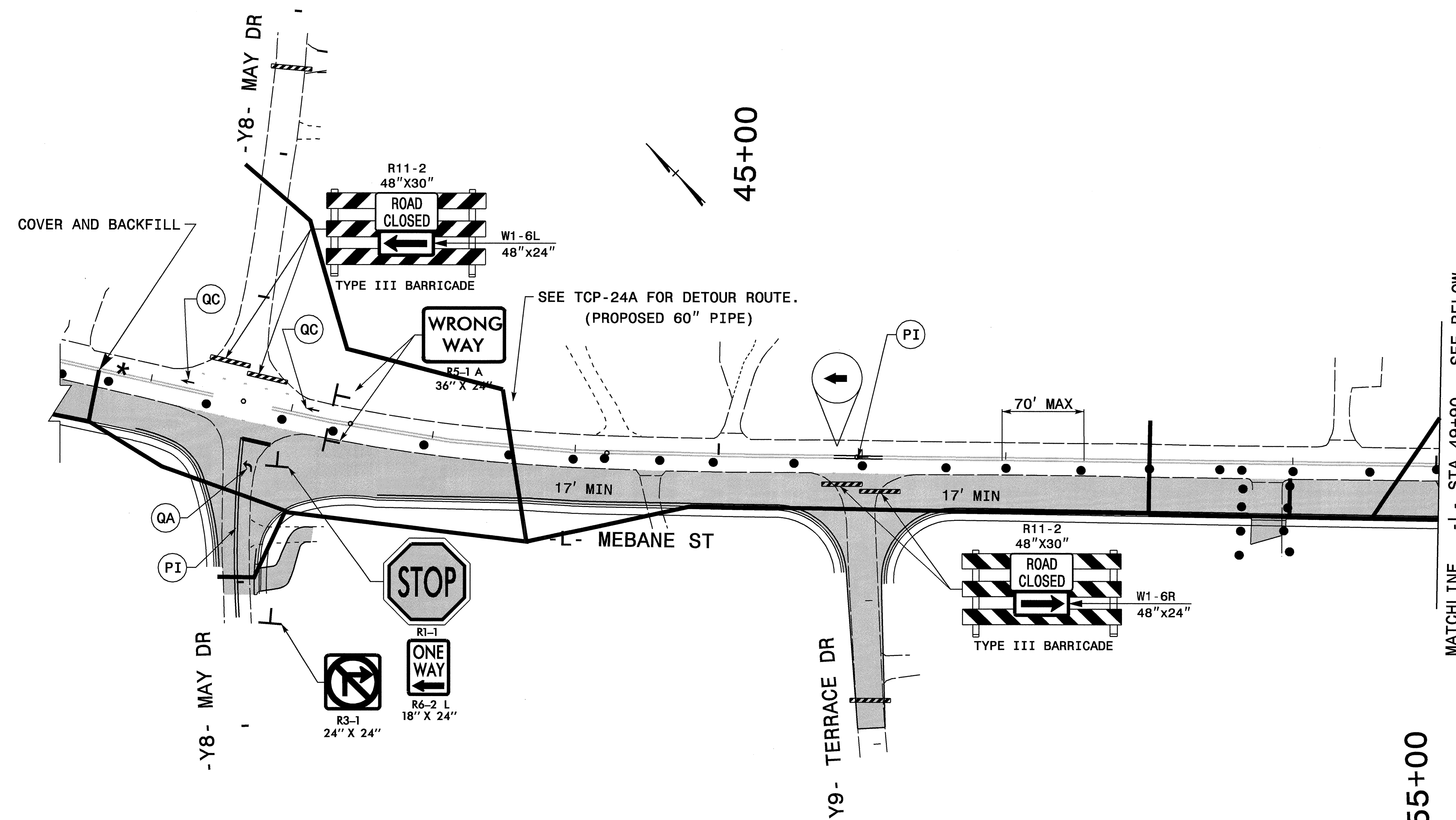


SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALLATION.

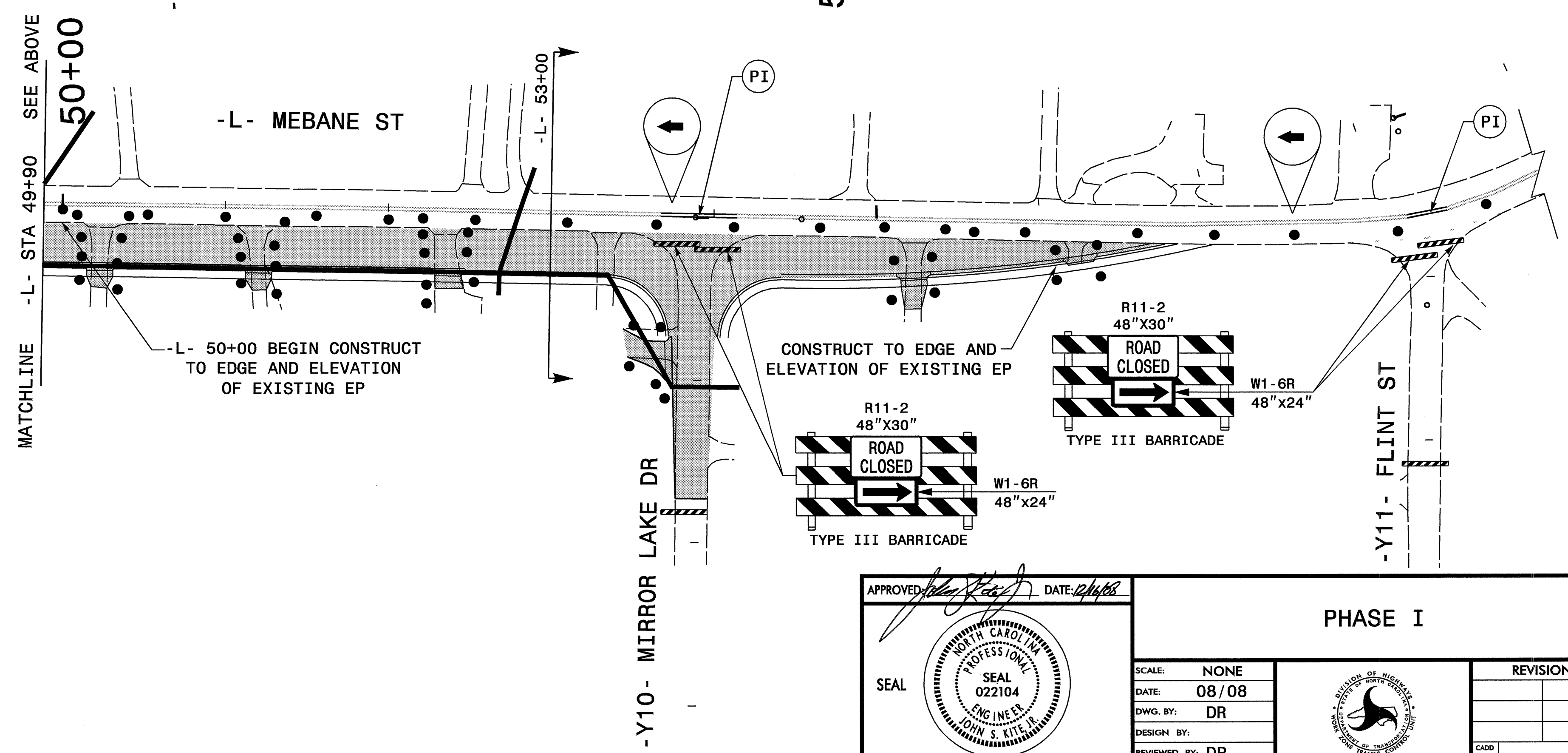
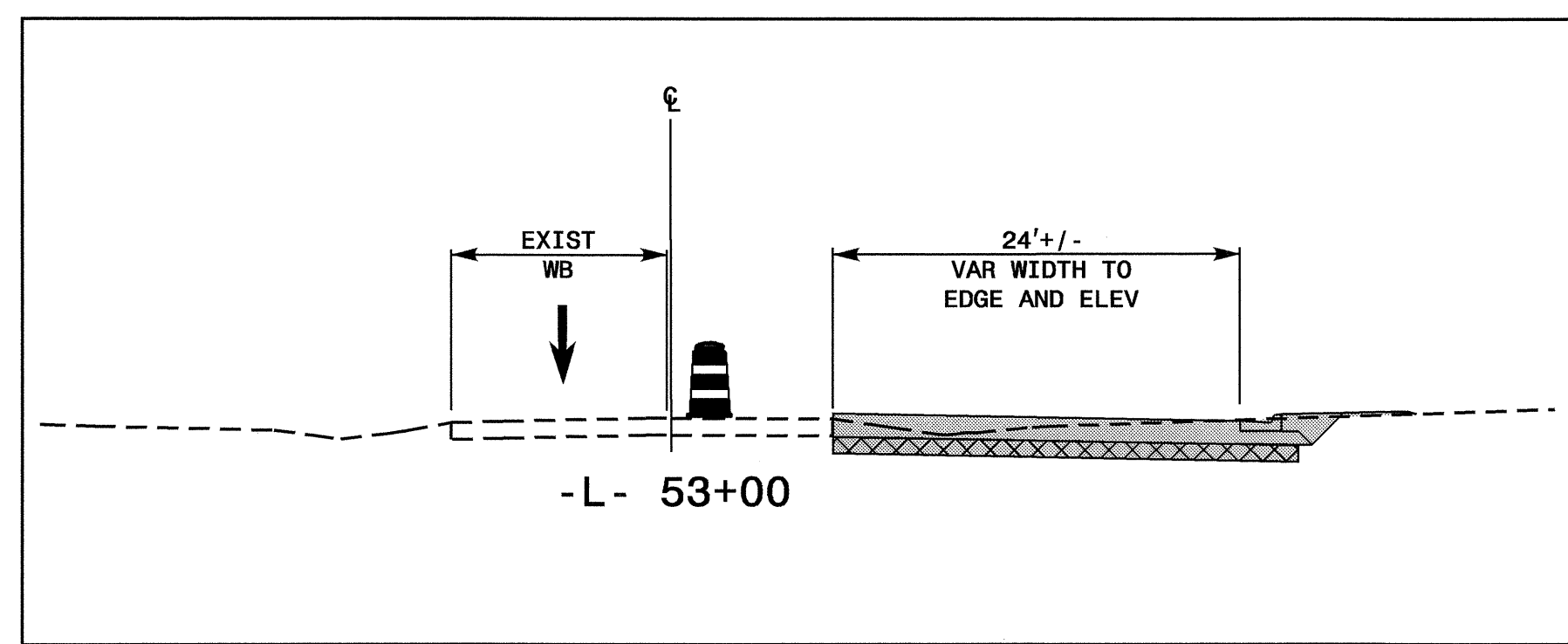
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	DATE: 08/08	
	DWG. BY: DR	
	DESIGN BY: DP	
REVIEWED BY: DP	REVISIONS	

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 derichardson AT WZTC237460

SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALATION.

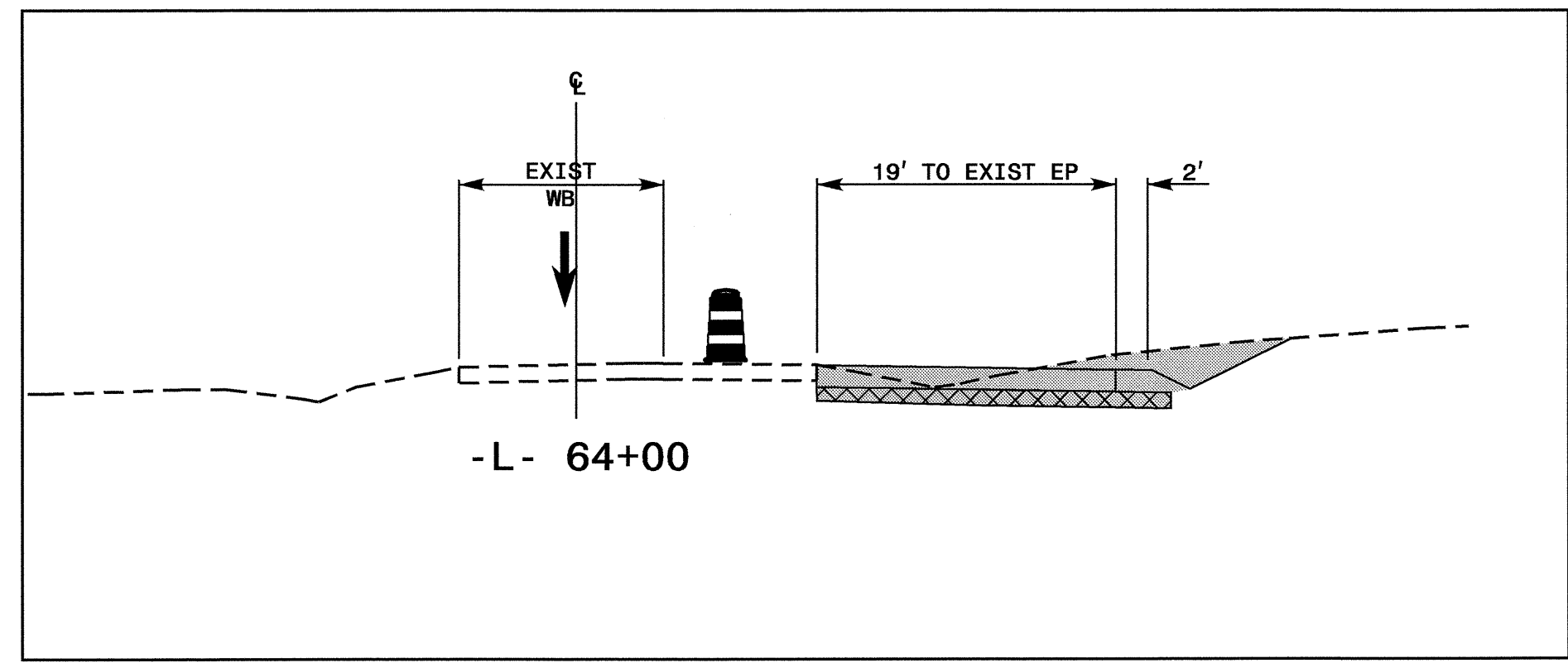
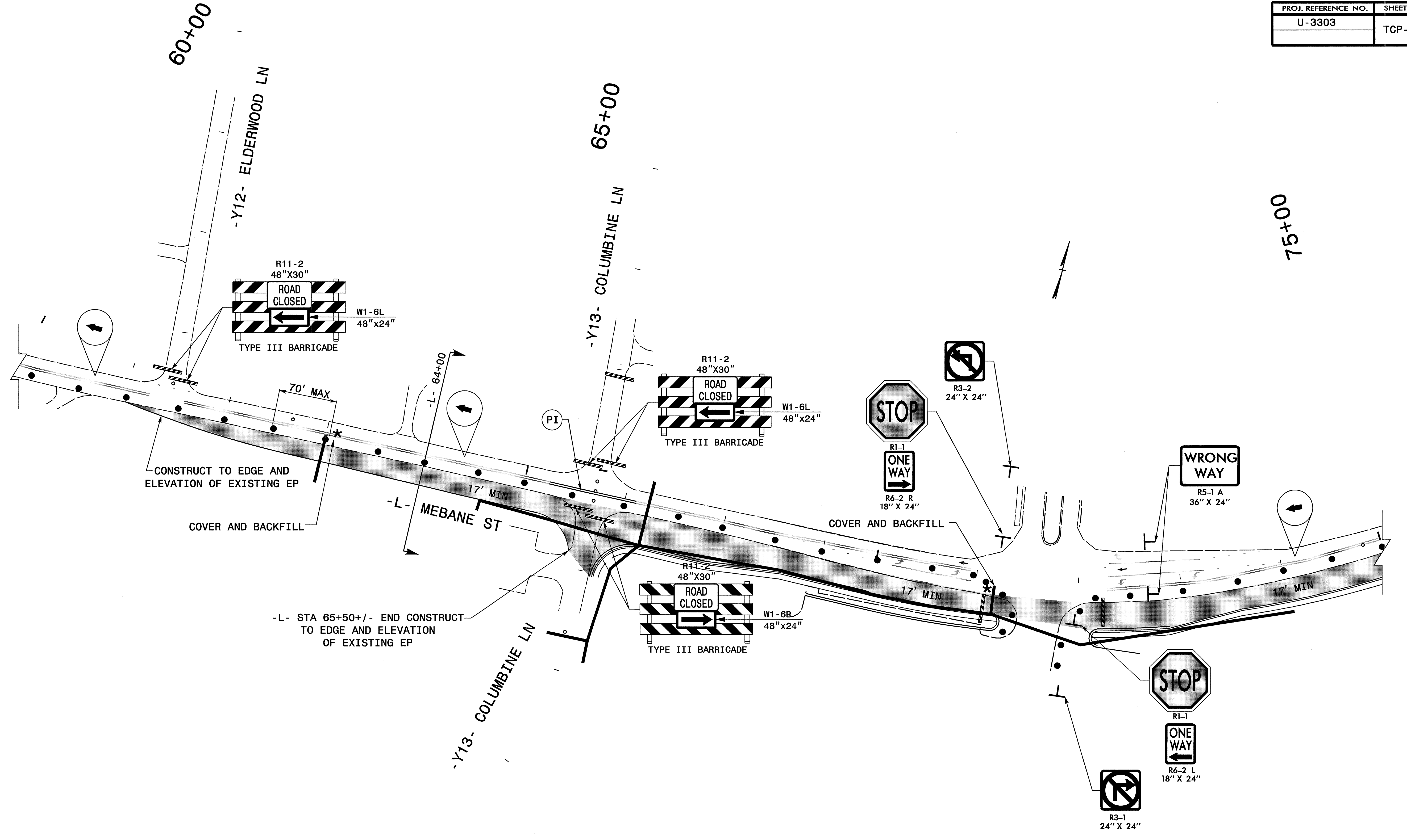


* = INSTALL PIPE AND COVER AND BACKFILL IN PHASE I.
INSTALL BOX IN PHASE II.



16-DEC-2008 08:21
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 derichardson AT WZTC237460

APPROVED: <i>[Signature]</i> DATE: 2/4/08 	PHASE I							
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* = INSTALL PIPE AND COVER AND BACKFILL IN PHASE I.
INSTALL BOX IN PHASE II.

SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALLATION.

I6-DEC-2008 08:22
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 \Proj\N\ppr\projects-u\3303a\Traffic\control\top\one lane one way\3303.tc.pl.top07.dgn
 derlchar-dson

APPROVED: <i>[Signature]</i> DATE: 12/4/08	PHASE I	
	SCALE: NONE	
	DATE: 08/08	
	DWG. BY: DR	
	DESIGN BY: DR	
REVIEWED BY: DP	REVISIONS	

NO LEFT
TURNS AT
MEBANE
MEBANE ST
UNDER
CONSTRUCTION

CMS TO BE PLACED APPROX 500'
PRIOR TO INTERSECTION

= EXISTING SIGNAL TO BE RE-TIMED FOR NEW TRAFFIC PATTERN
NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS

NO LEFT
TURNS AT
MEBANE ST
SEE SD-1

WEDGE AND RESURFACE AS
DIRECTED BY THE ENGINEER

R3-2
24" X 24"
NOTE: INSTALL R3-2 TO
SPAN WIRE
FACING APPROACHING
TRAFFIC.

ROAD
CLOSED
NEXT RIGHT
W20-3
48" X 48"
SP-4R
42" X 12"

SEE TCP-24A FOR DETOUR ROUTE
(PROPOSED PIPES)

WRONG
WAY
R5-1 A
36" X 24"

R3-2
24" X 24"
 R1-1
STOP
 R6-2 R
18" X 24"

WRONG
WAY
R5-1 A
36" X 24"

STOP
R1-1
ONE
WAY
R6-2 L
18" X 24"

R3-1
24" X 24"
NOTE: INSTALL R3-1 TO
SPAN WIRE
FACING APPROACHING
TRAFFIC.

R11-2
48" X 30"
ROAD
CLOSED
TYPE III BARRICADE

R3-1
24" X 24"

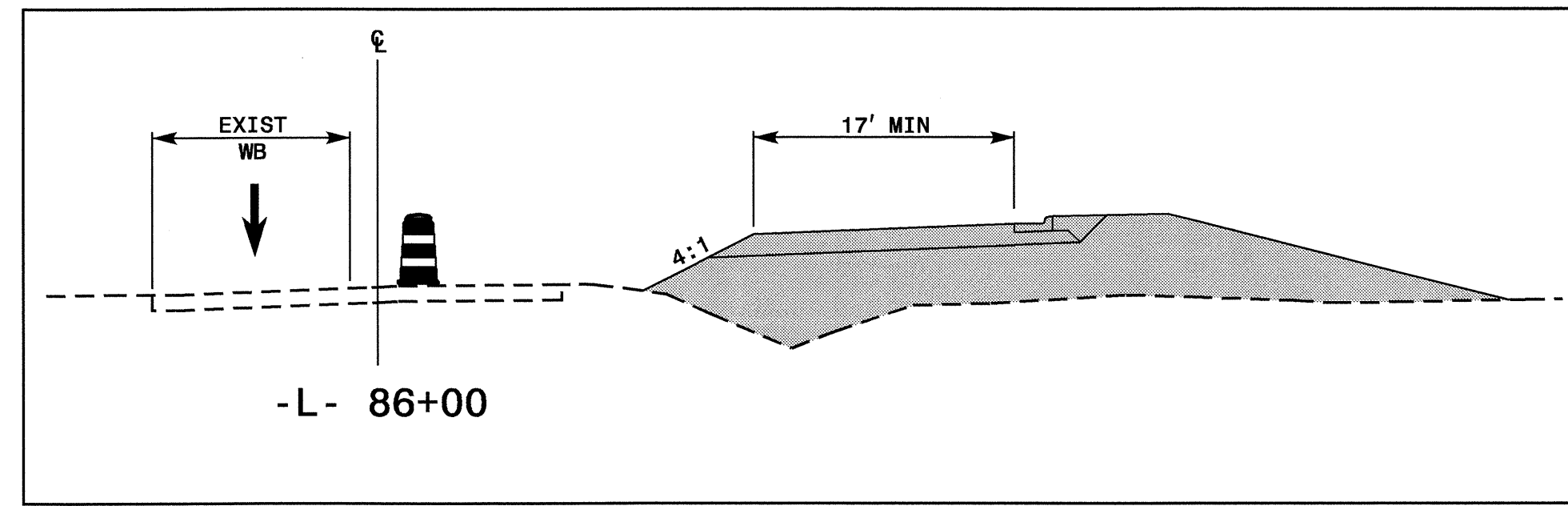
* = INSTALL PIPE AND COVER AND BACKFILL IN PHASE I.
INSTALL BOX IN PHASE II.

ROAD
CLOSED
NEXT LEFT
W20-3
48" X 48"
SP-4L
42" X 12"

NO RIGHT
TURNS AT
MEBANE ST
SEE SD-1

NO RIGHT
TURNS AT
MEBANE
MEBANE ST
UNDER
CONSTRUCTION

CMS TO BE PLACED APPROX 500'
PRIOR TO INTERSECTION

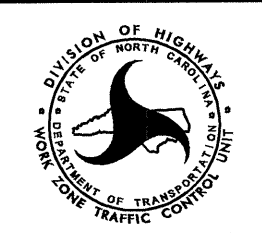


SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALLATION.

APPROVED: DATE: 12/16/08
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEERS
SEAL 022104
ENGINEER
JOHN S. WITTE, II

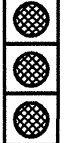
PHASE I

SCALE: NONE
DATE: 08/08
DWG. BY: DR
DESIGN BY:
REVIEWED BY: DP

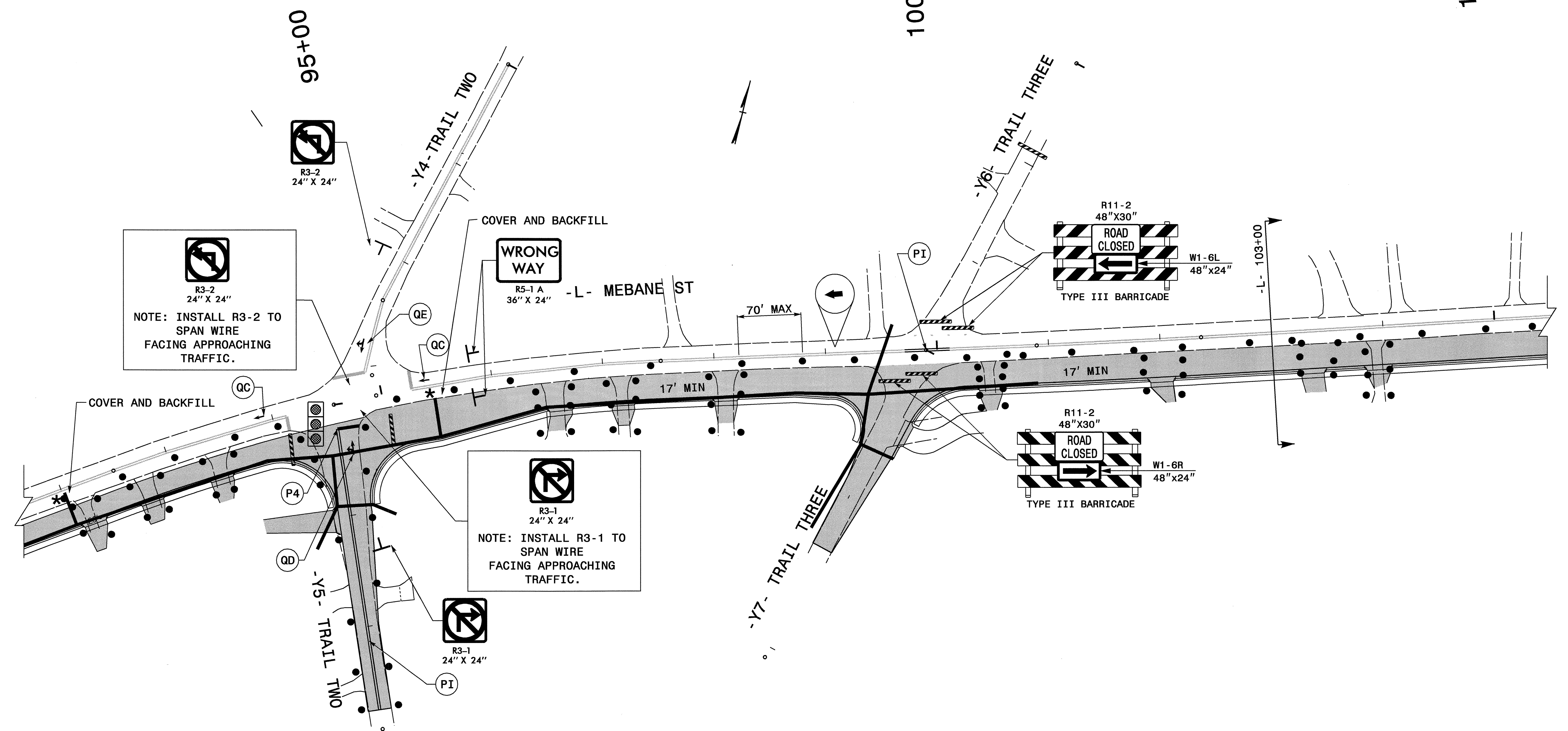



REVISIONS	

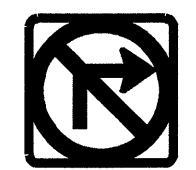
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AT WZTC237460
derichardson

 = EXISTING SIGNAL TO BE RE-TIMED FOR NEW TRAFFIC PATTERN
 NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS

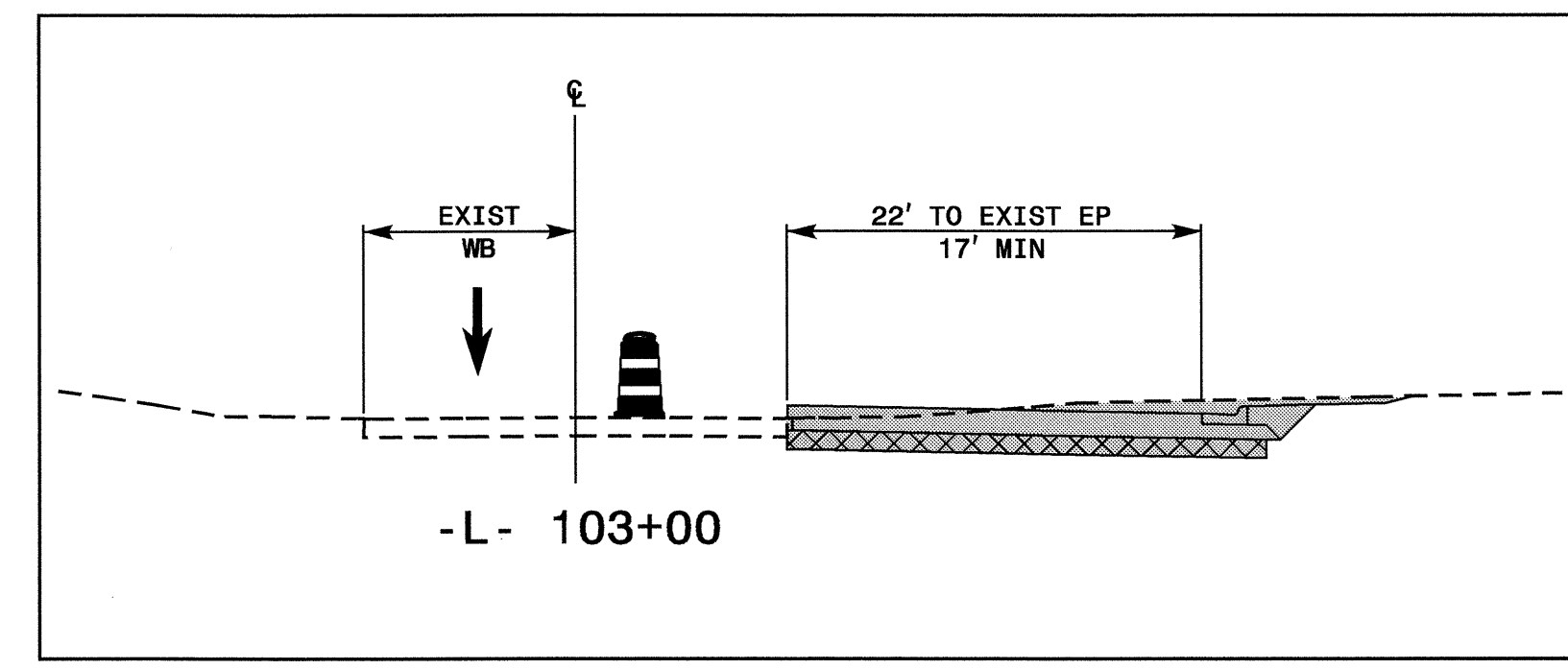
105+00



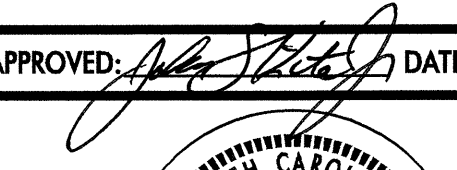
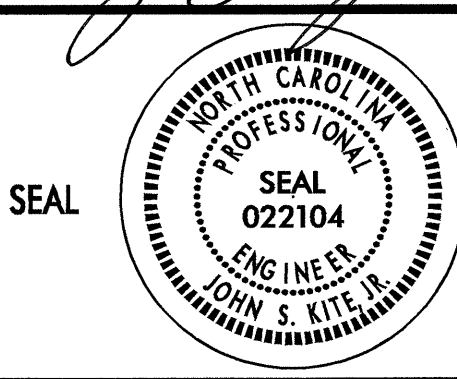

 R3-2
 24" X 24"
 NOTE: INSTALL R3-2 TO SPAN WIRE FACING APPROACHING TRAFFIC.


 R3-1
 24" X 24"
 NOTE: INSTALL R3-1 TO SPAN WIRE FACING APPROACHING TRAFFIC.

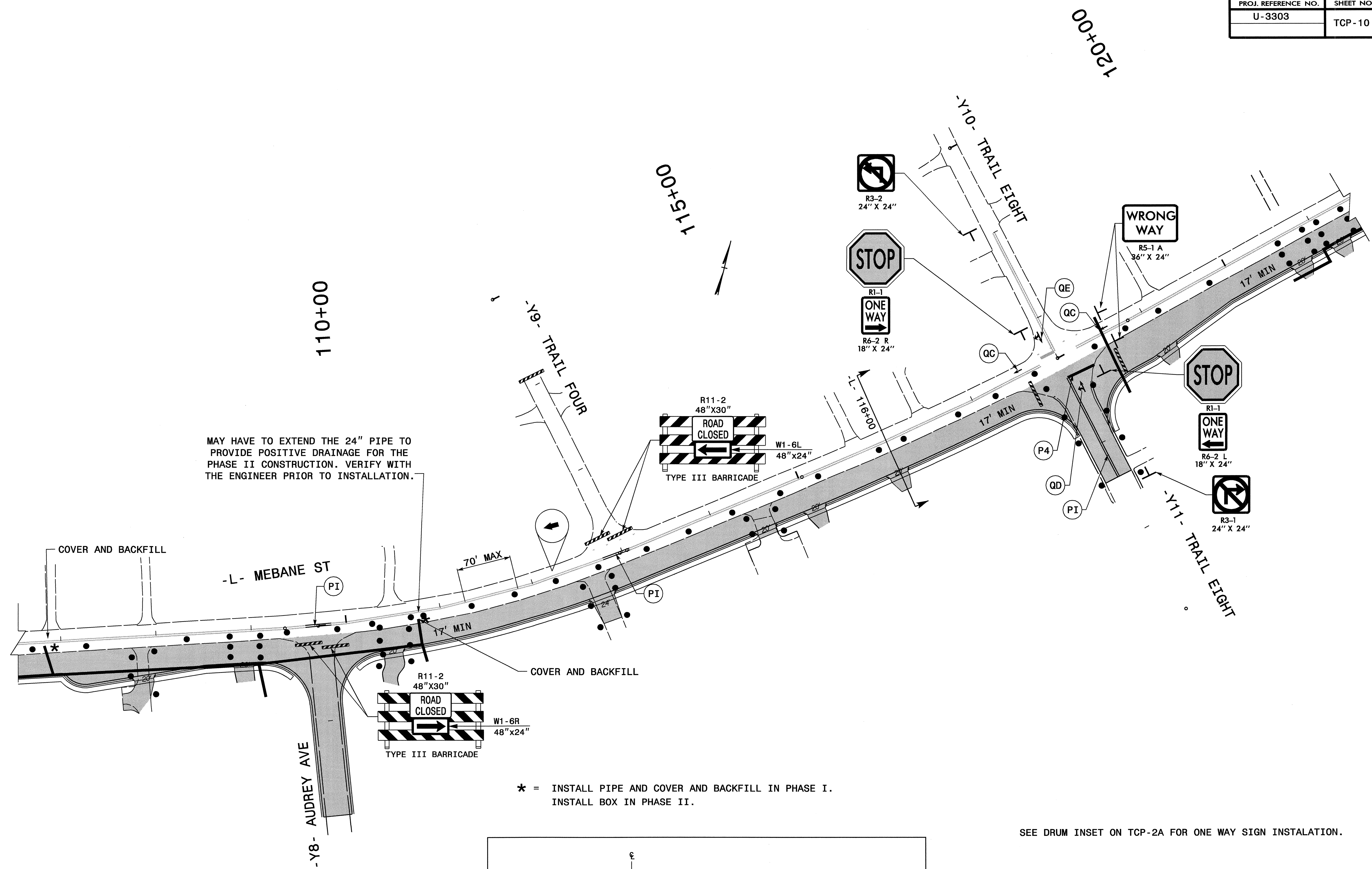
* = INSTALL PIPE AND COVER AND BACKFILL IN PHASE I.
 INSTALL BOX IN PHASE II.



SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALATION.

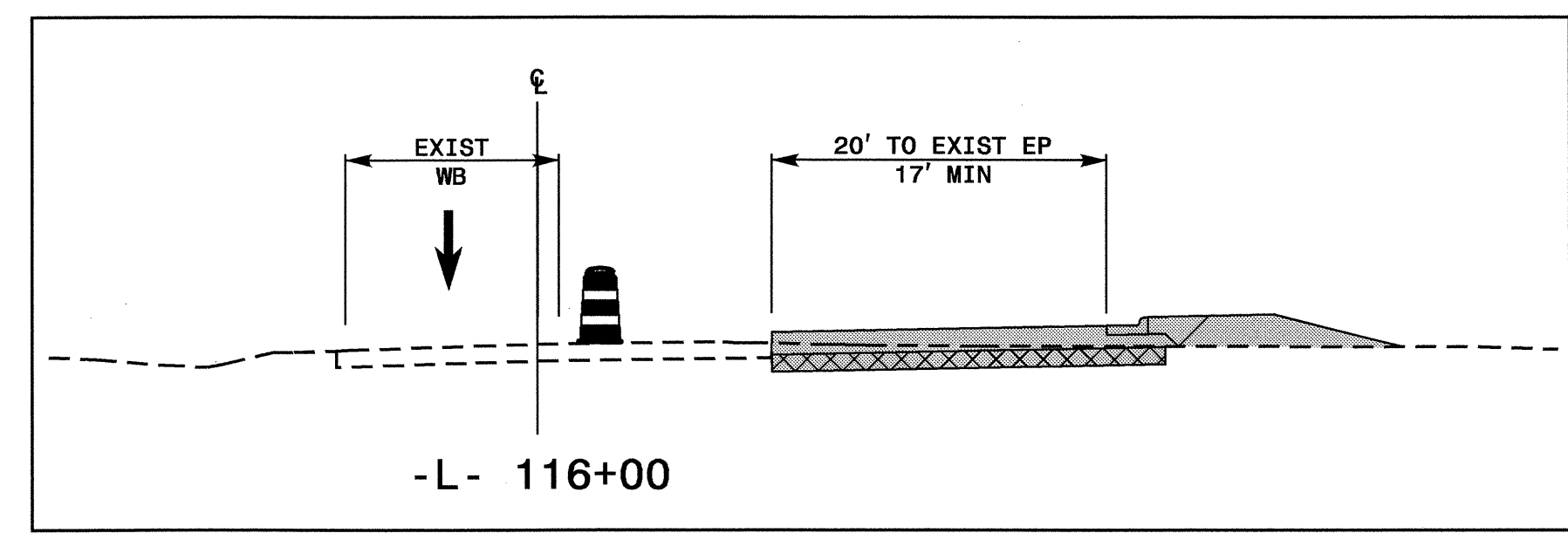
APPROVED: 	DATE: 12/4/08	PHASE I	
			
		DATE: 08/08	REVISIONS
DWG. BY: DR			
DESIGN BY: DP			

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 derichardson AT WZTC237460




* = INSTALL PIPE AND COVER AND BACKFILL IN PHASE I.
INSTALL BOX IN PHASE II.

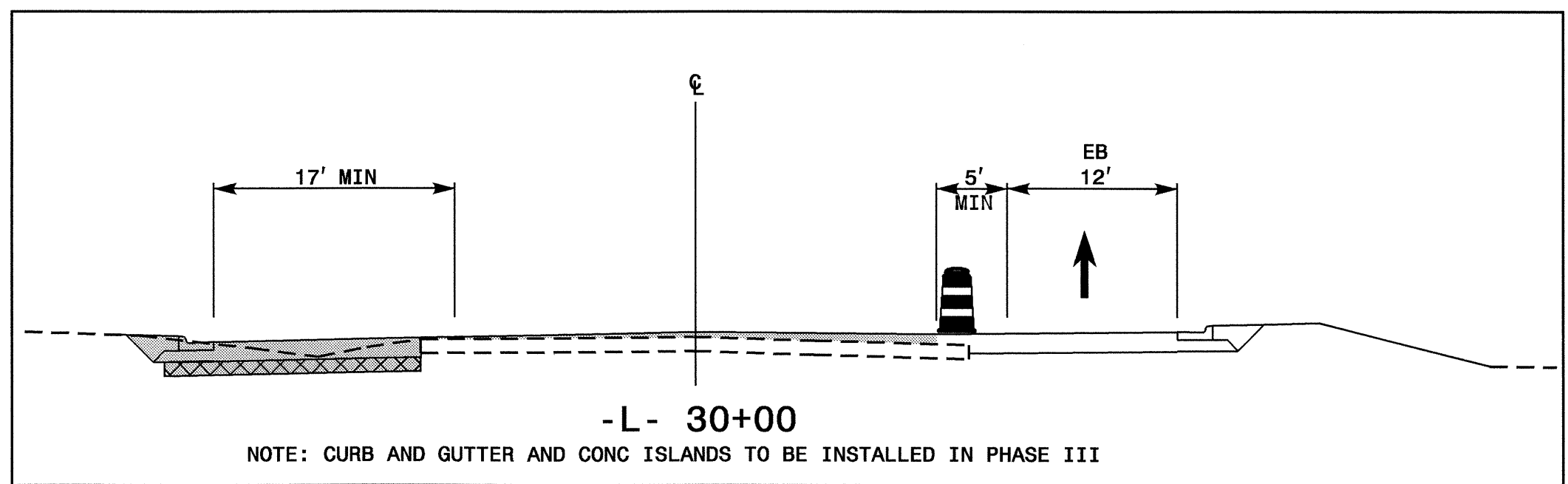
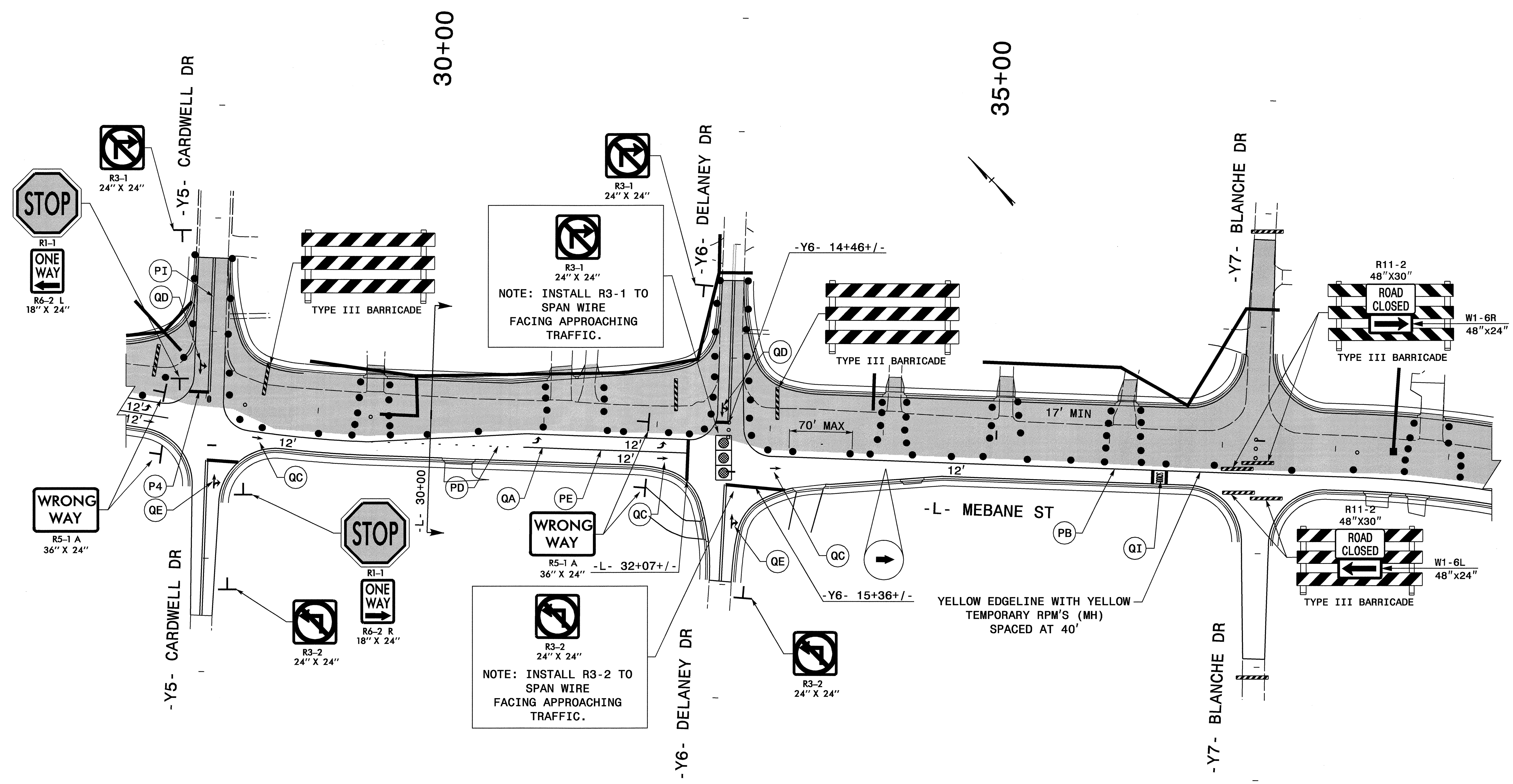
SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALATION.



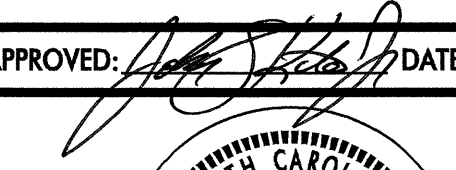
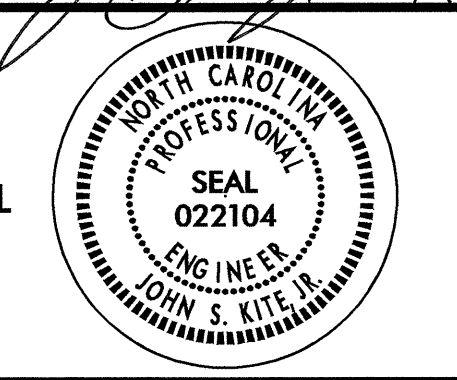

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 derichardson AT WZTC237460

APPROVED: <i>[Signature]</i> DATE: 12/16/08	PHASE I	
	SCALE: NONE	
	DATE: 08/08	
	DWG. BY: DR	
	DESIGN BY: DR	
REVIEWED BY: DP	REVISIONS	

 = EXISTING SIGNAL TO BE RE-TIMED FOR NEW TRAFFIC PATTERN
 NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS

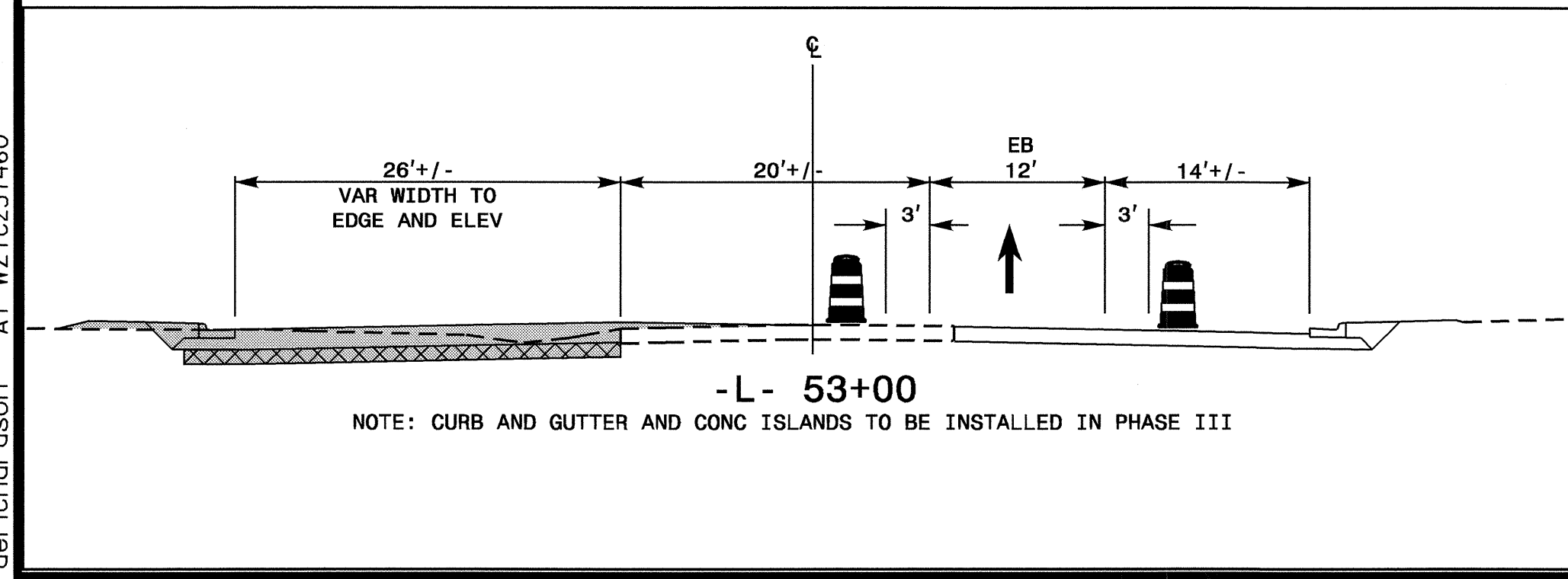
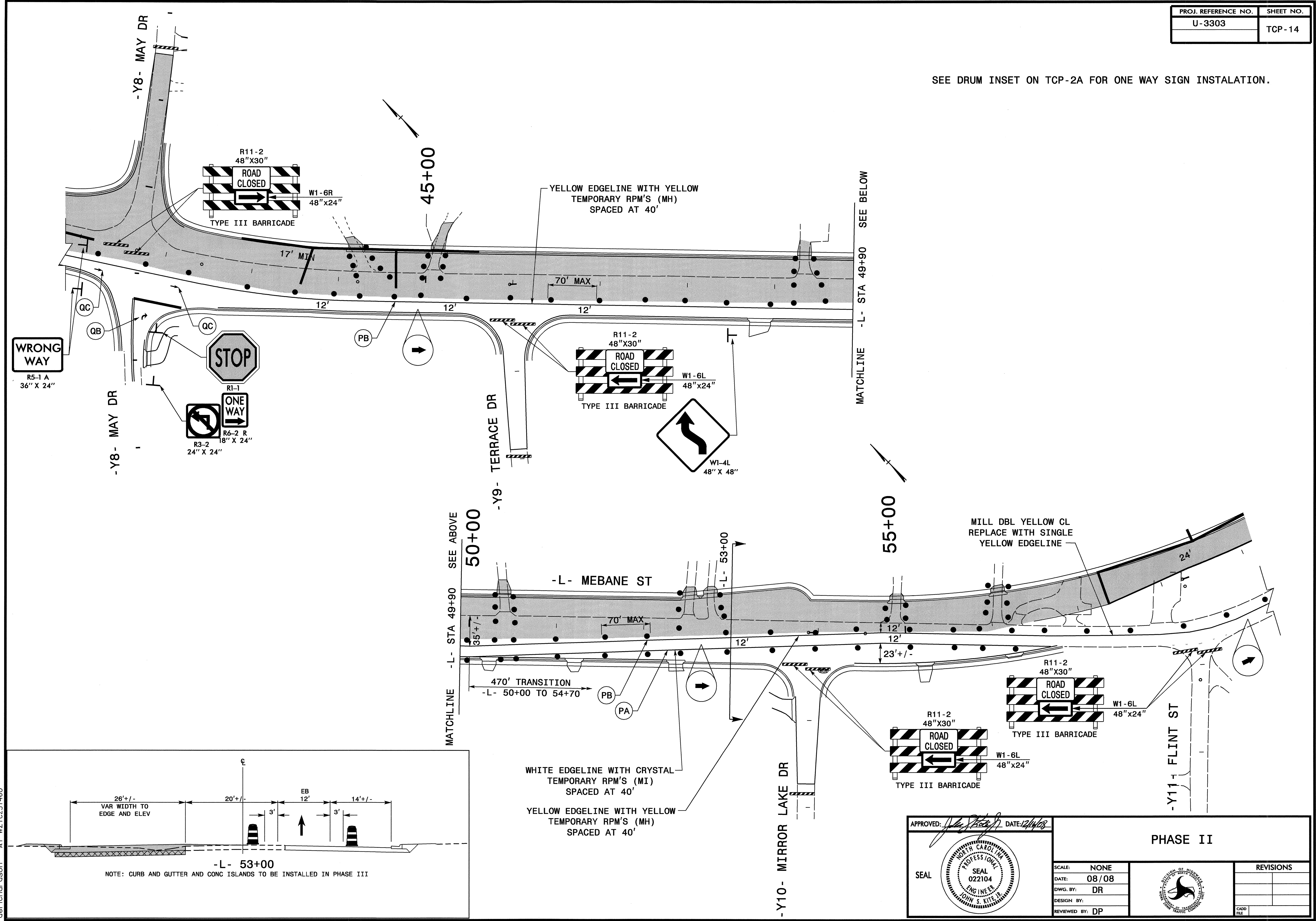


SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALLATION.

APPROVED:  DATE: 04/08	PHASE II	
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	DESIGN BY: DP	
REVIEWED BY: DP	REVISIONS	CADD FILE

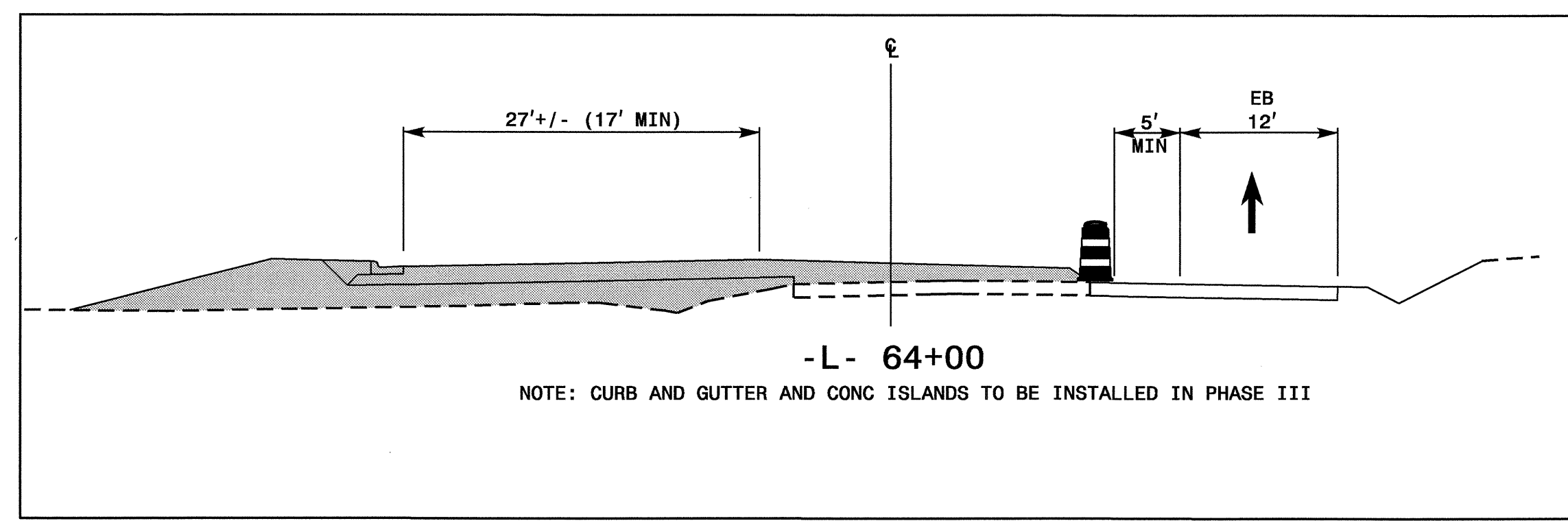
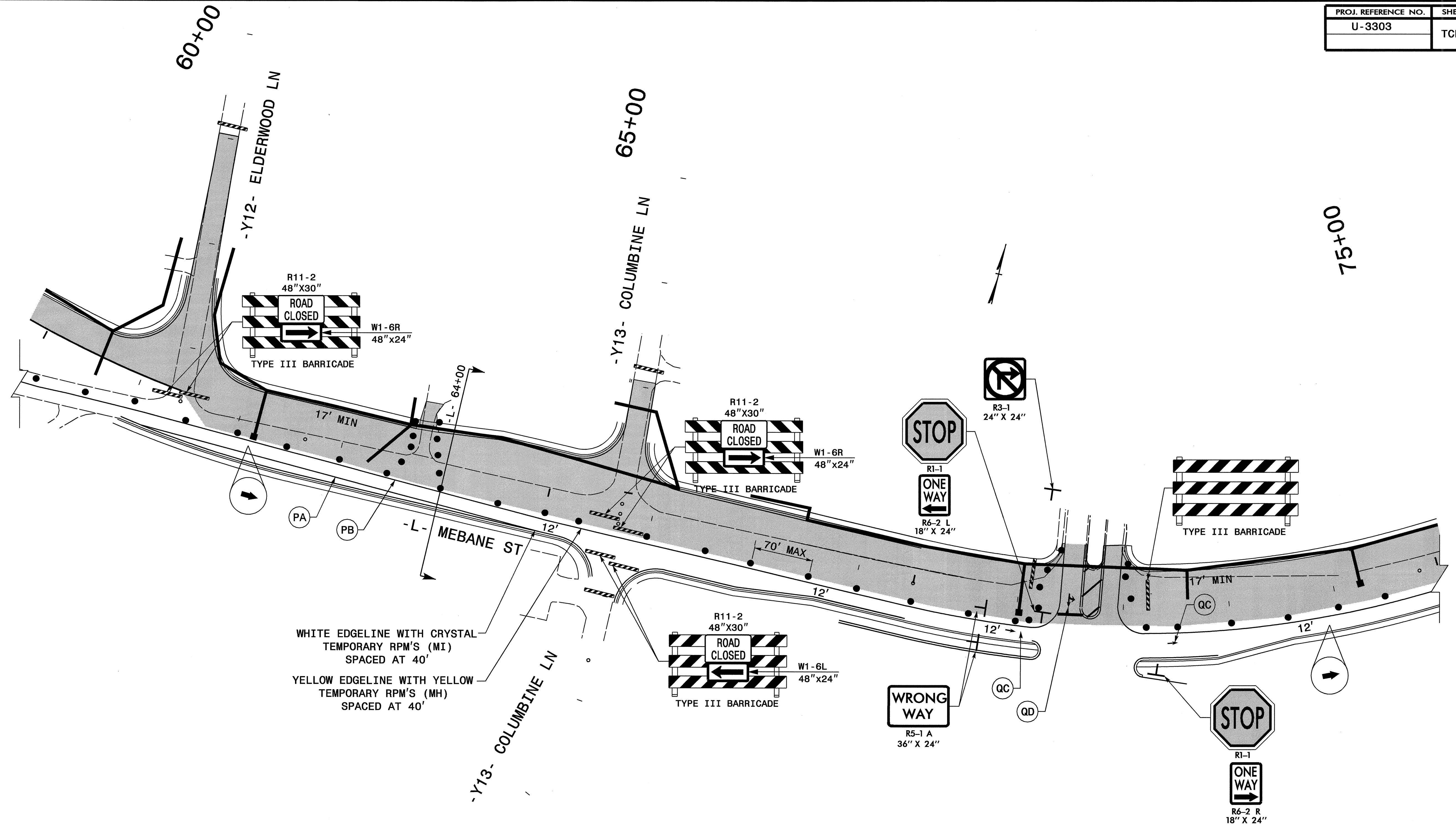
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 derichardson AT W21C237460

SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALATION.



APPROVED: <i>[Signature]</i> DATE: 8/1/08	<p style="text-align: center;">PHASE II</p>							
SCALE: NONE	DATE: 08/08	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS					
REVISIONS								
DWG. BY: DR	DESIGN BY: DR	REVIEWED BY: DP						

16-DEC-2008 08:57
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 derichardson AT WZ1237460



SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALATION.

APPROVED: <i>[Signature]</i> DATE: 12/14/08	PHASE II							
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	DATE: 08/08							
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REVISIONS								

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 derlchar.dsn

NO RIGHT
TURNS AT
MEBANE

MEBANE ST
UNDER
CONSTRUCTION

CMS TO BE PLACED APPROX 500'
PRIOR TO INTERSECTION



= EXISTING SIGNAL TO BE RE-TIMED FOR NEW TRAFFIC PATTERN
NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS

NO RIGHT
TURNS AT
MEBANE ST
SEE SD-1

80+00



W20-3
48" X 48"

R3-1
24" X 24"

NOTE: INSTALL R3-1 TO
SPAN WIRE
FACING APPROACHING
TRAFFIC.



SP-4R
42" X 12"

-Y1- 19+26+/-

R11-2
48" X 30"

ROAD
CLOSED

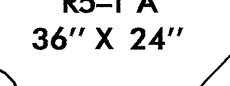
TYPE III BARRICADE



-L- MEBANE ST

WRONG
WAY

R5-1 A
36" X 24"



-L- 80+41+/-

ROAD
CLOSED

W20-3
48" X 48"

SP-4L
42" X 12"

R3-2
24" X 24"

NOTE: INSTALL R3-2 TO
SPAN WIRE
FACING APPROACHING
TRAFFIC.



SP-4L
42" X 12"

NO LEFT
TURNS AT
MEBANE ST
SEE SD-1

STOP

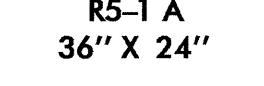
R1-1



R6-2 L
18" X 24"

WRONG
WAY

R5-1 A
36" X 24"

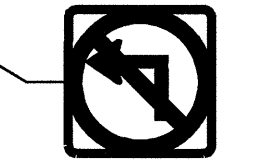


STOP

R1-1



R6-2 R
18" X 24"



R3-2
24" X 24"

00+00

TRAIL ONE



TYPE III BARRICADE

17' MIN

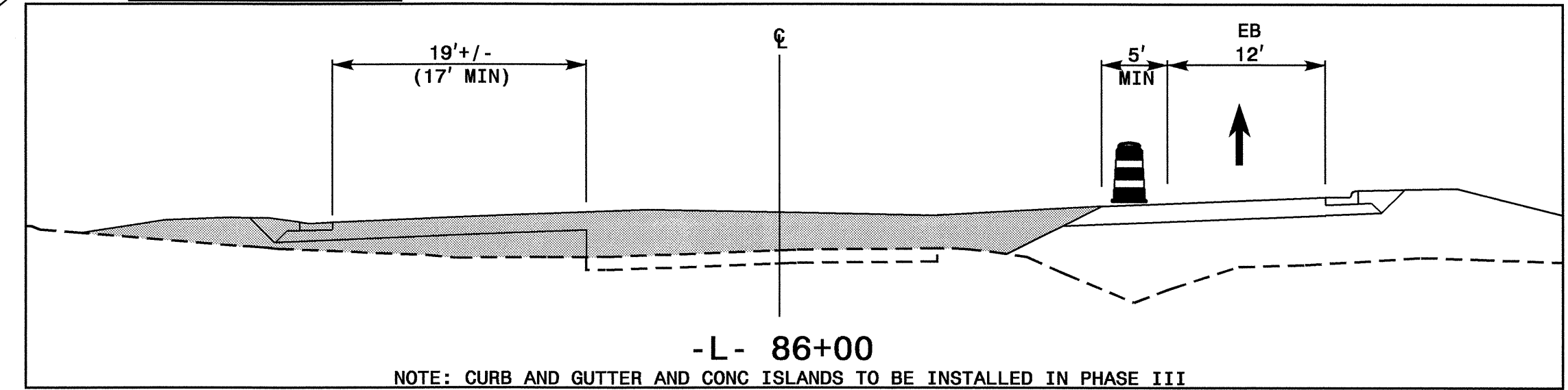
YELLOW EDGELINE WITH YELLOW
TEMPORARY RPM'S (MH)
SPACED AT 40'

SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALLATION.

NO LEFT
TURNS AT
MEBANE

MEBANE ST
UNDER
CONSTRUCTION

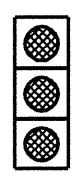
CMS TO BE PLACED APPROX 500'
PRIOR TO INTERSECTION



NOTE: CURB AND GUTTER AND CONC ISLANDS TO BE INSTALLED IN PHASE III

APPROVED: <i>[Signature]</i> DATE: 08/08	PHASE II	
SEAL:		
SCALE: NONE	REVISIONS	
DATE: 08/08		
DWG. BY: DR		
DESIGN BY: DP		

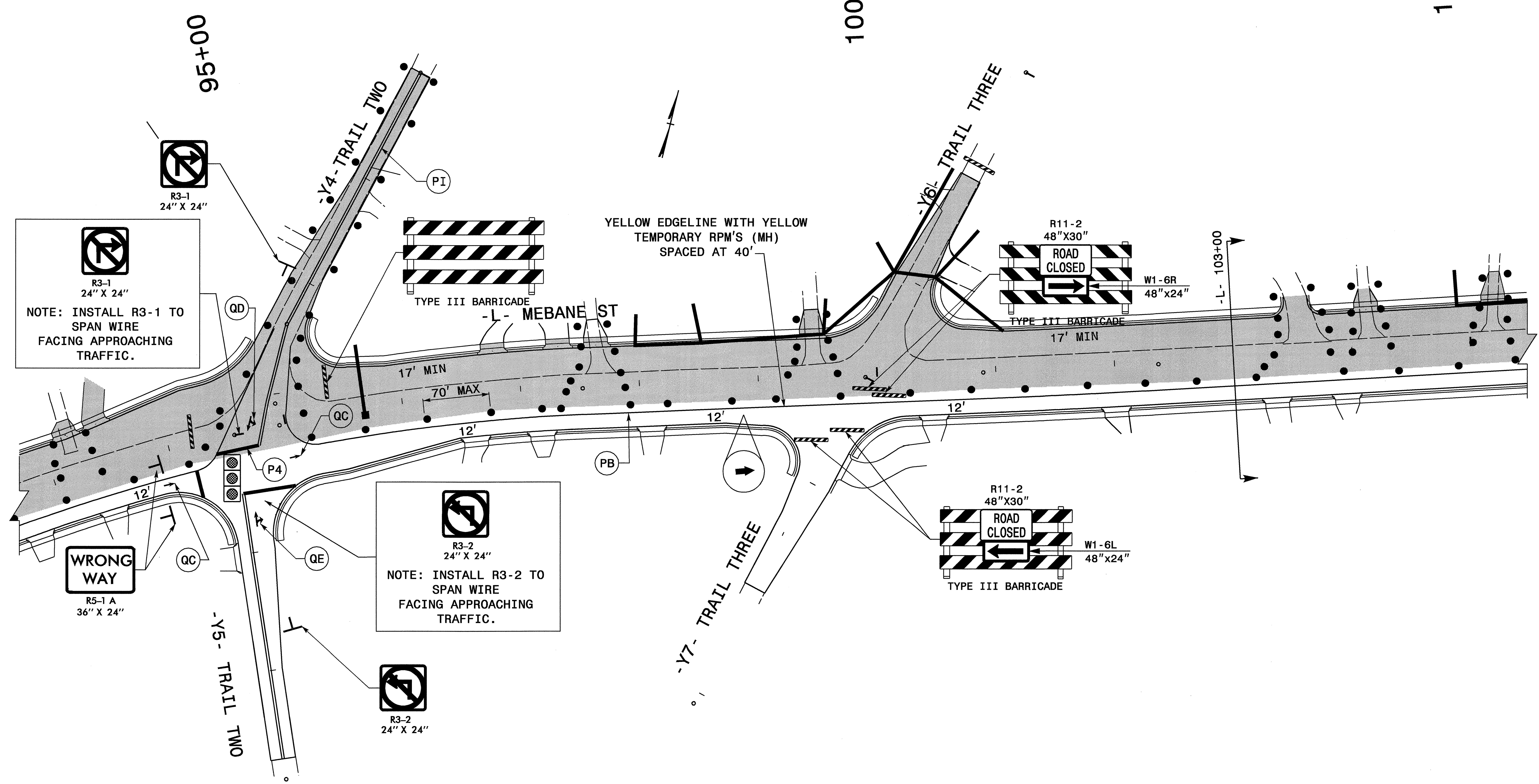
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 AT WZIC237460
 derichardson

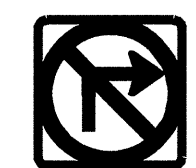
 = EXISTING SIGNAL TO BE RE-TIMED FOR NEW TRAFFIC PATTERN
 NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS


105+00


100+00

95+00

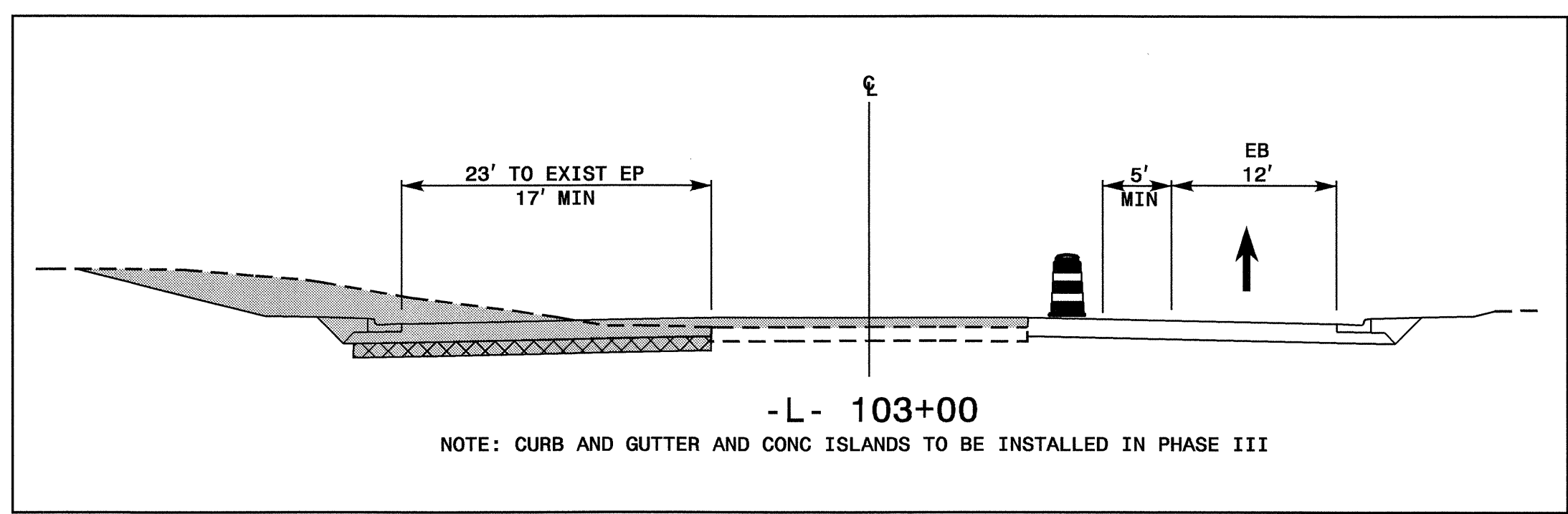



 R3-1
 24" X 24"
 NOTE: INSTALL R3-1 TO SPAN WIRE FACING APPROACHING TRAFFIC.

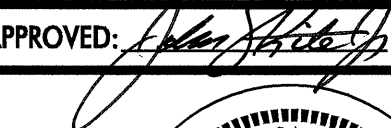
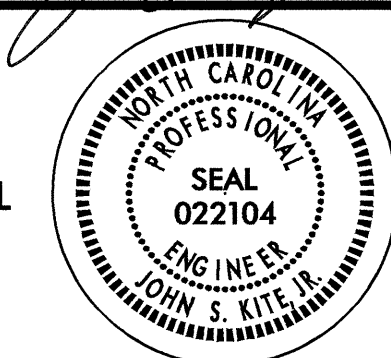
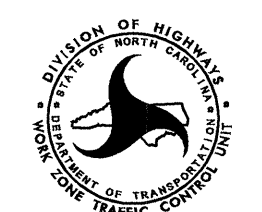

 R3-2
 24" X 24"
 NOTE: INSTALL R3-2 TO SPAN WIRE FACING APPROACHING TRAFFIC.


 WRONG WAY
 R5-1 A
 36" X 24"

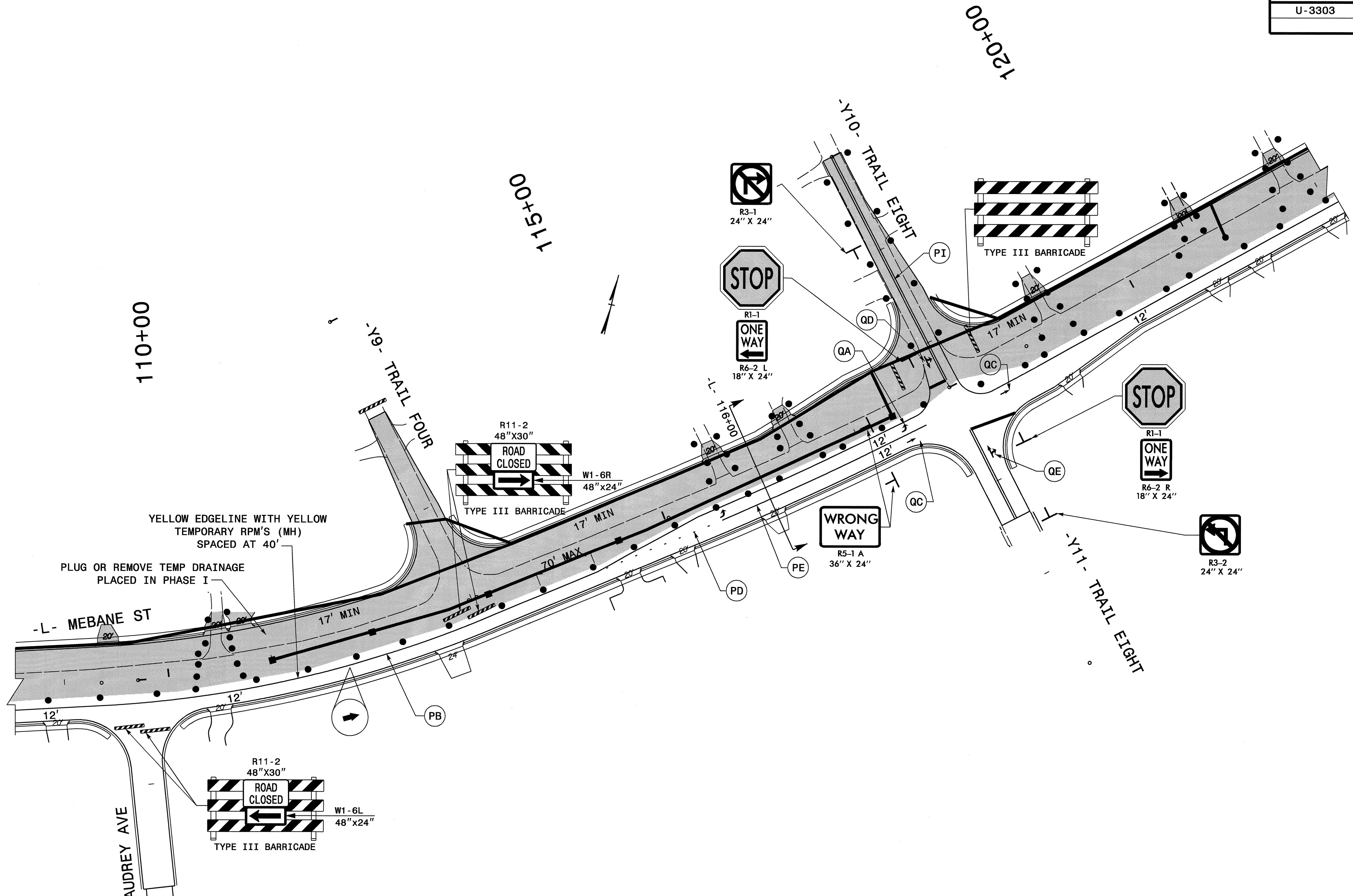

 R3-2
 24" X 24"



SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALATION.

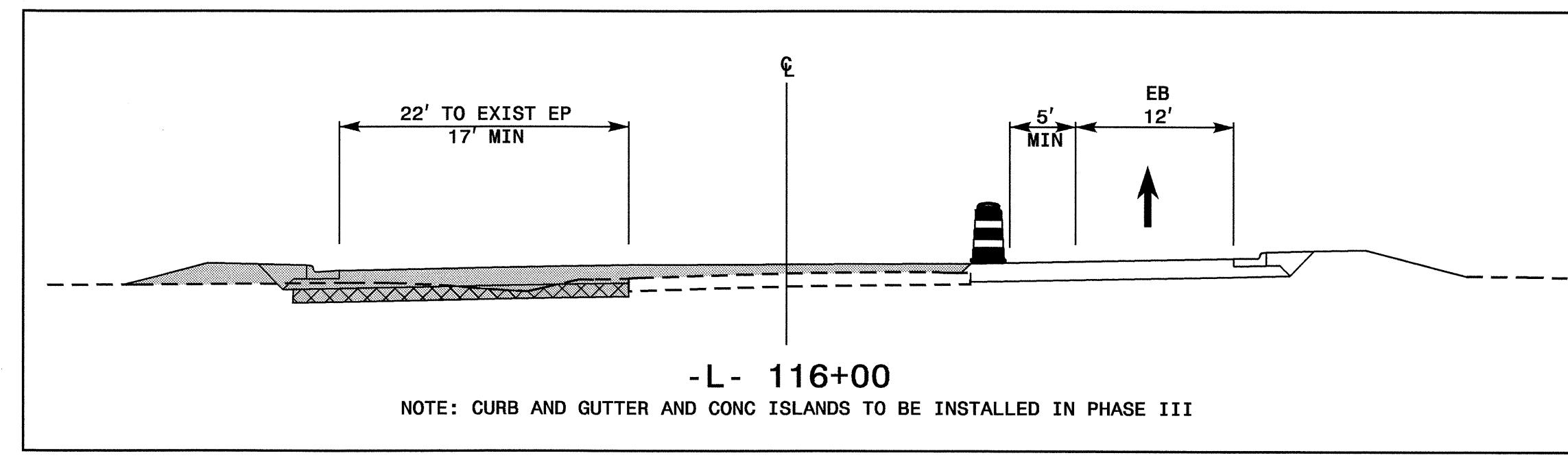
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SCALE: NONE		REVISIONS
DATE: 08/08		
DWG. BY: DR		
DESIGN BY: DP		

16-DEC-2008 08:58
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 derichardson AT WZTC237460



YELLOW EDGELINE WITH YELLOW TEMPORARY RPM'S (MH) SPACED AT 40'

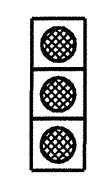
PLUG OR REMOVE TEMP DRAINAGE PLACED IN PHASE I



SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALLATION.

APPROVED: <i>[Signature]</i> DATE: 08/08 	PHASE II							
	SCALE: NONE DATE: 08/08 DWG. BY: DR DESIGN BY: REVIEWED BY: DP		REVISIONS <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>					

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 detrichardson AT WZ1237460

 = EXISTING SIGNAL TO BE RE-TIMED FOR NEW TRAFFIC PATTERN
 NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS

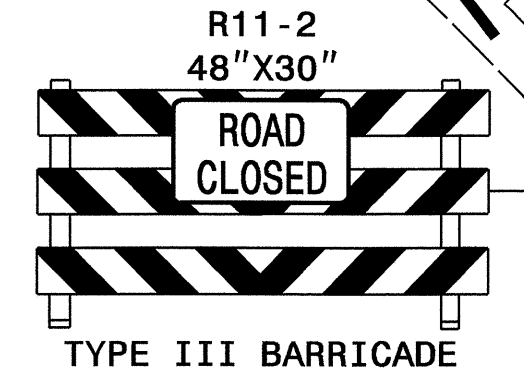
MEBANE ST UNDER CONSTRUCTION
 NO RIGHTS ONTO MEBANE ST

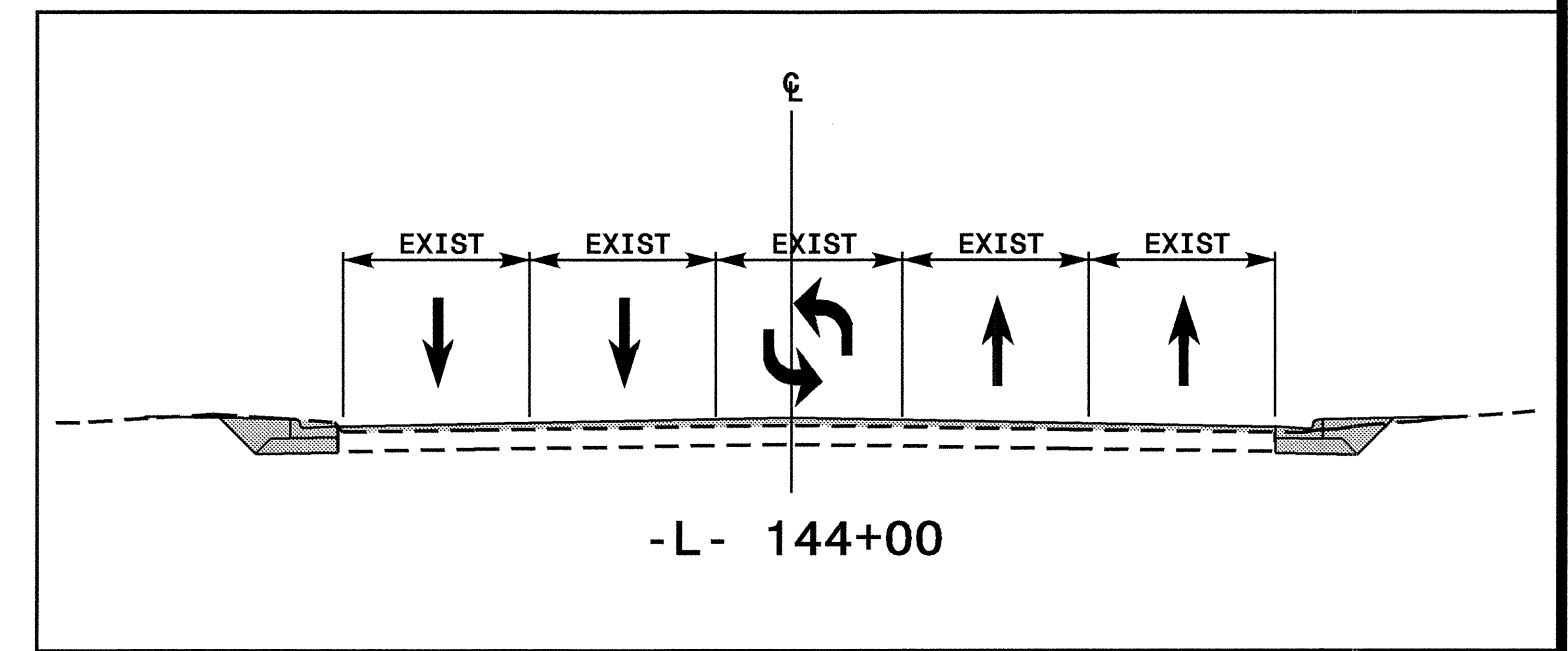
CMS TO BE LOCATED APPROX 500+ PRIOR TO INTERSECTION PER ENGINEER

NO RIGHT TURNS AT MEBANE ST
 SEE SD-1


 R3-1
 24" X 24"
 NOTE: INSTALL R3-1 TO SPAN WIRE FACING APPROACHING TRAFFIC.


 ROAD CLOSED


 R11-2
 48" X 30"
 ROAD CLOSED
 TYPE III BARRICADE



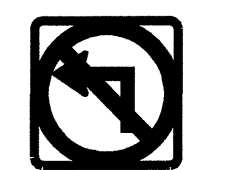

 ROAD CLOSED

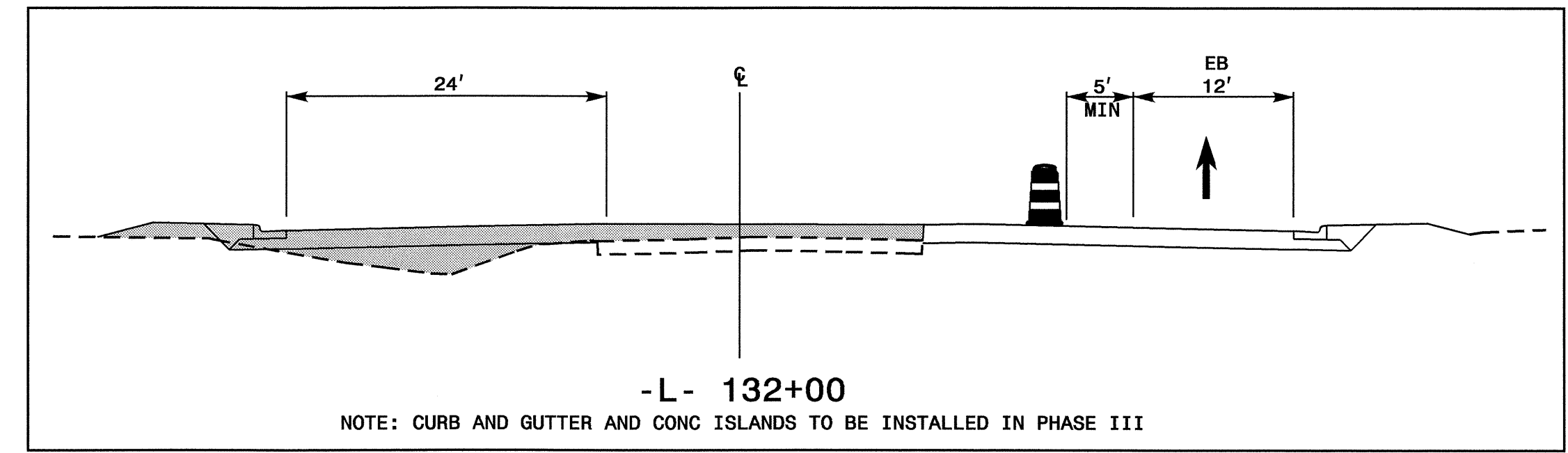

 NEXT LEFT

NO LEFT TURNS AT MEBANE ST
 SEE SD-1

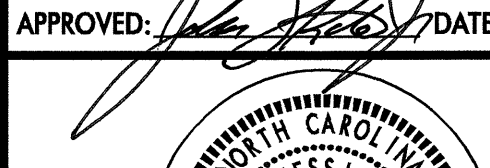

MEBANE ST UNDER CONSTRUCTION
 NO LEFTS ONTO MEBANE ST

CMS TO BE LOCATED APPROX 500+ PRIOR TO INTERSECTION PER ENGINEER


 R3-2
 24" X 24"
 NOTE: INSTALL R3-2 TO SPAN WIRE FACING APPROACHING TRAFFIC.

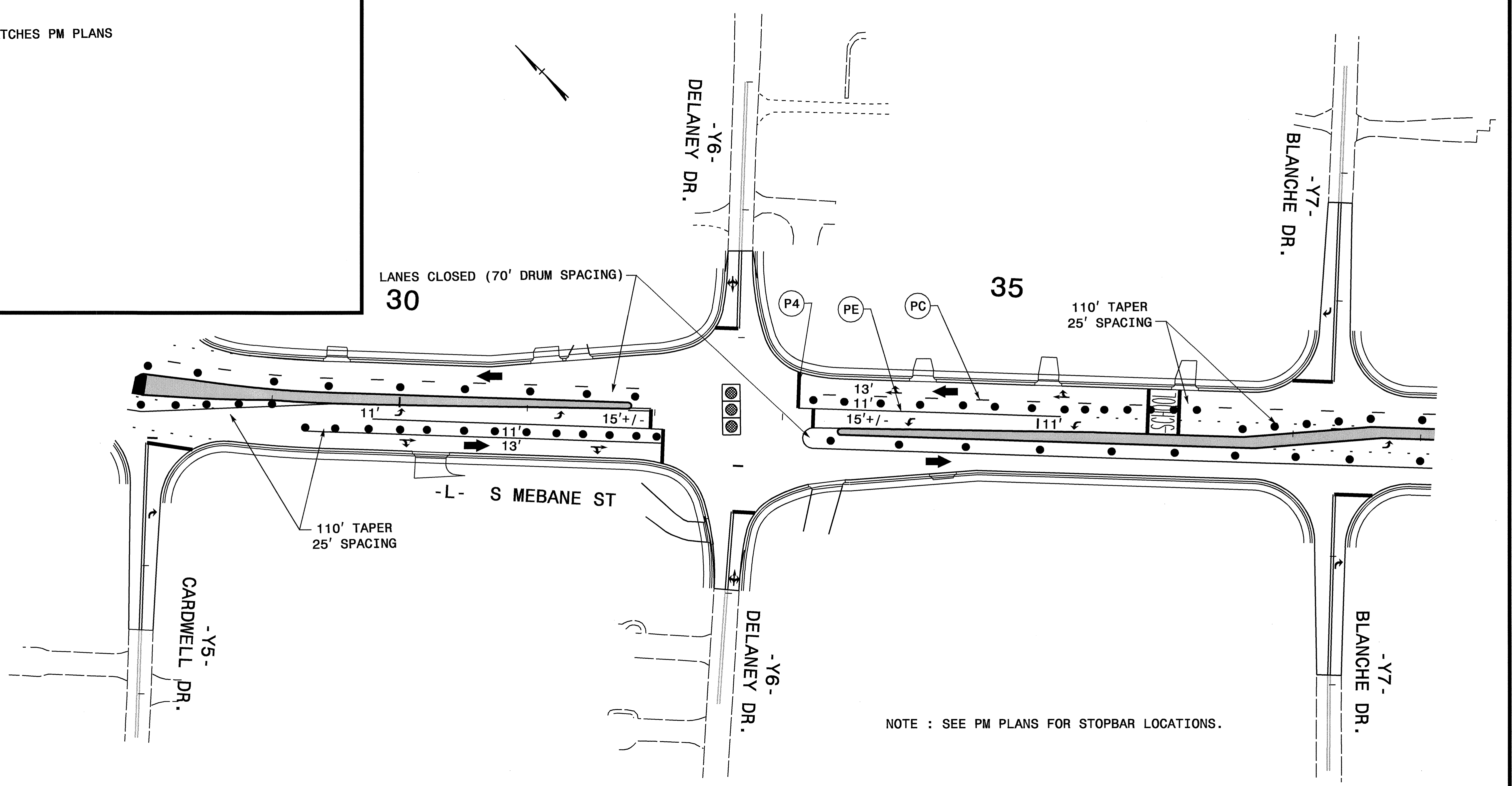
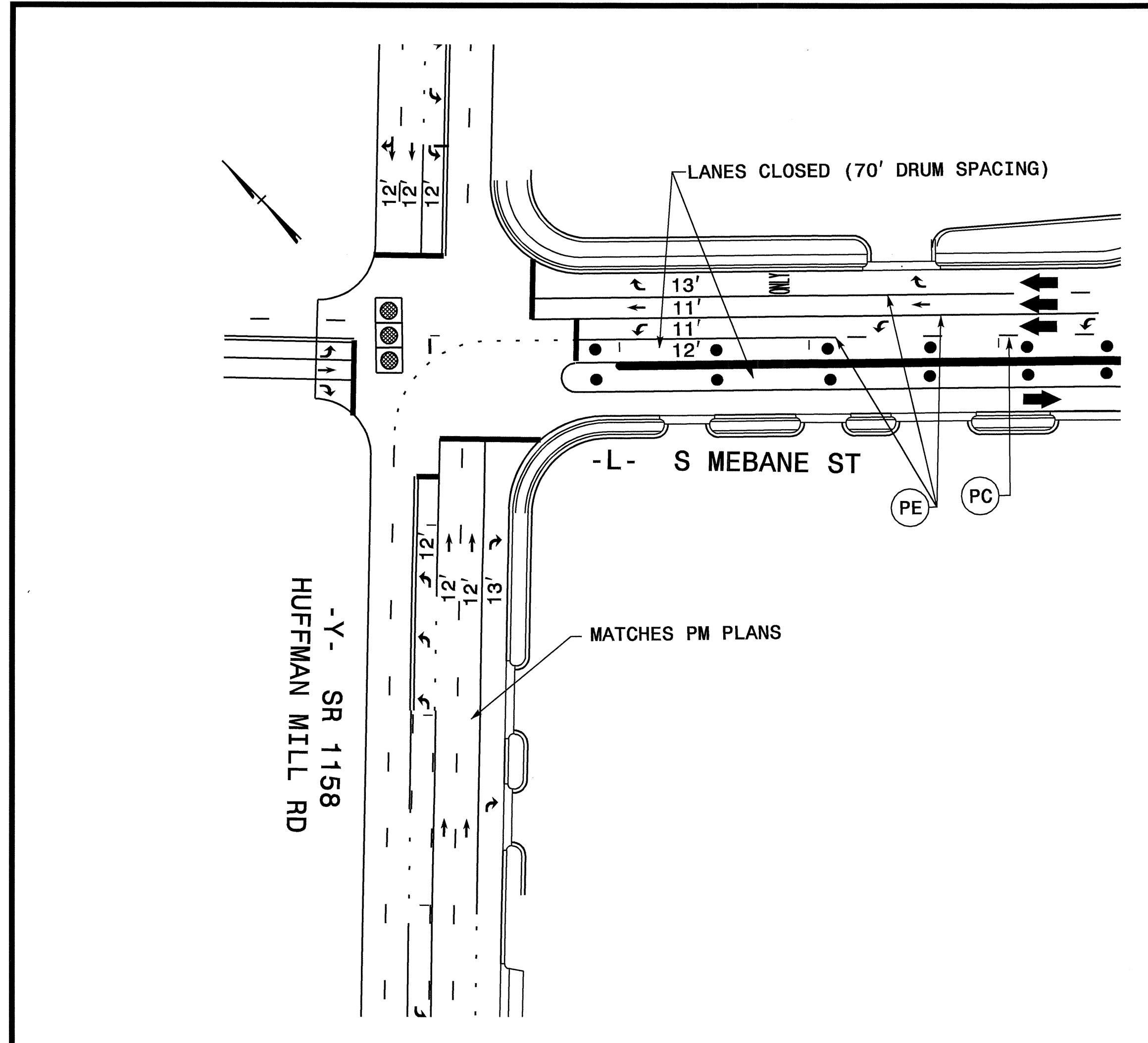


SEE DRUM INSET ON TCP-2A FOR ONE WAY SIGN INSTALLATION.

APPROVED:  DATE: 12/4/08
 SEAL


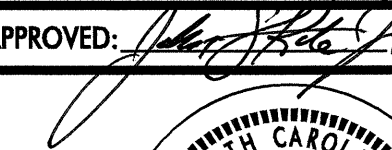
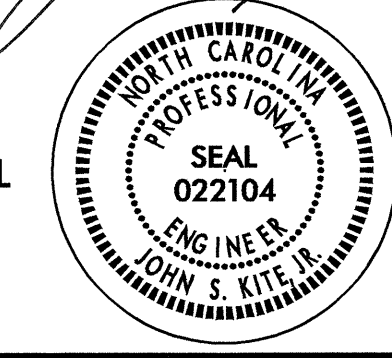

PHASE II	
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DATE: 08/08	
DWG. BY: DR	
DESIGN BY:	
REVIEWED BY: DP	

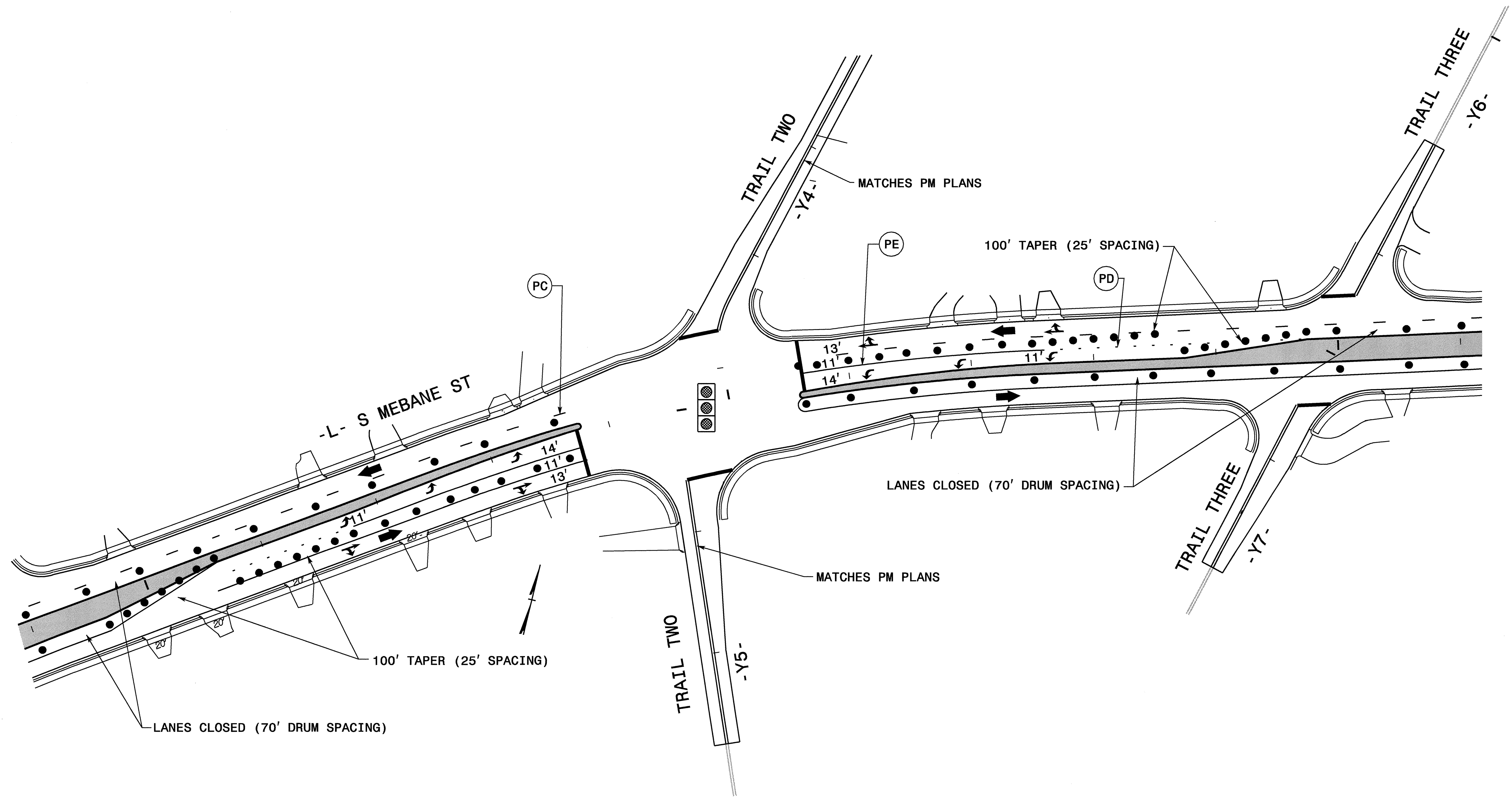
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 derlchar.dsn AT WZTC237460



NOTE : SEE PM PLANS FOR STOPBAR LOCATIONS.




16-DEC-2008 09:01
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 derichardson AT W2TC237460

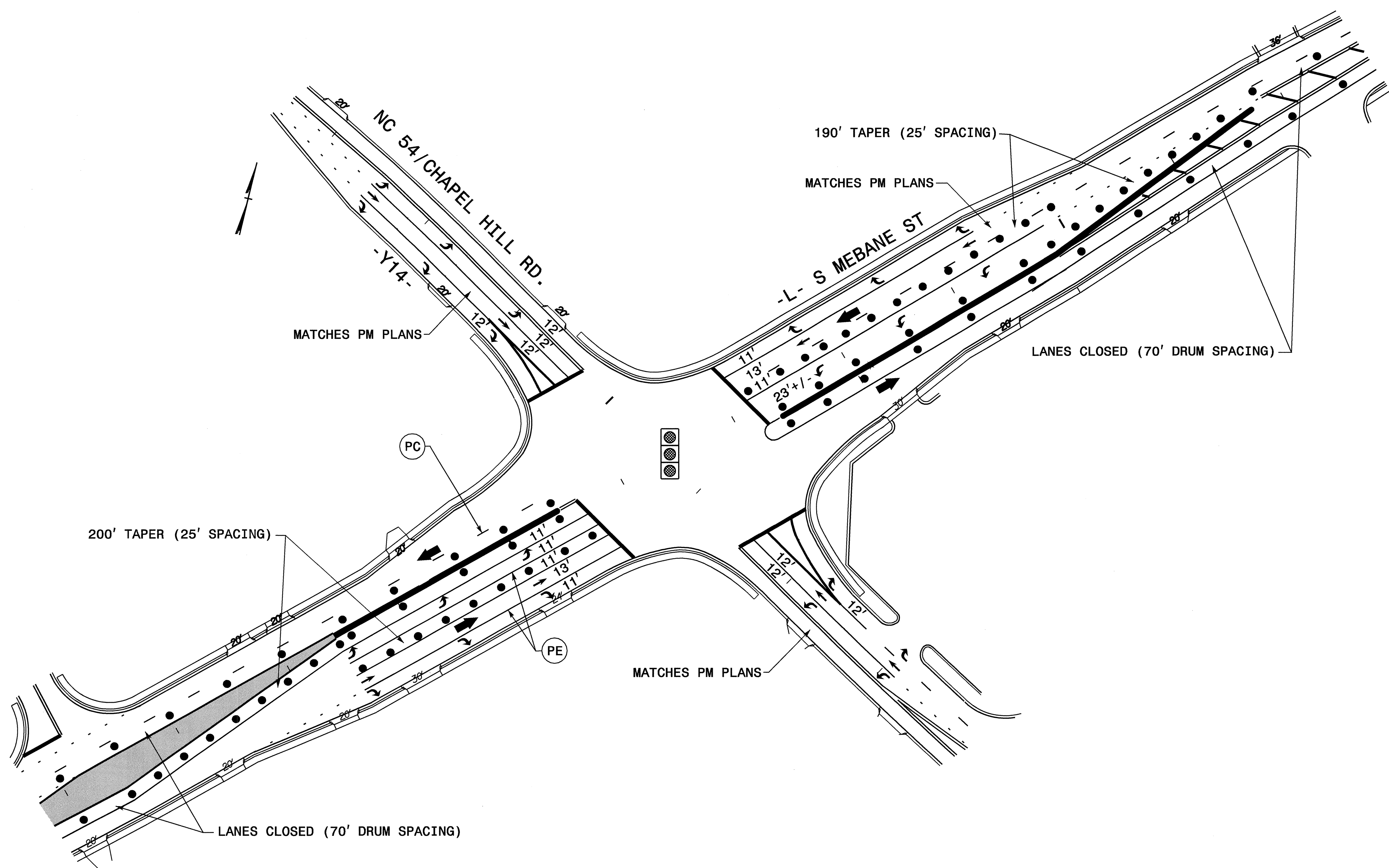
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NOTE : SEE PM PLANS FOR STOPBAR LOCATIONS.

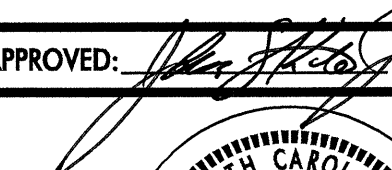
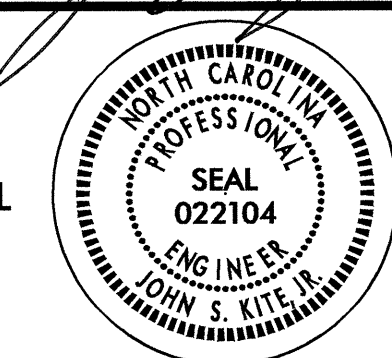

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 derichardson AT WZTC237460

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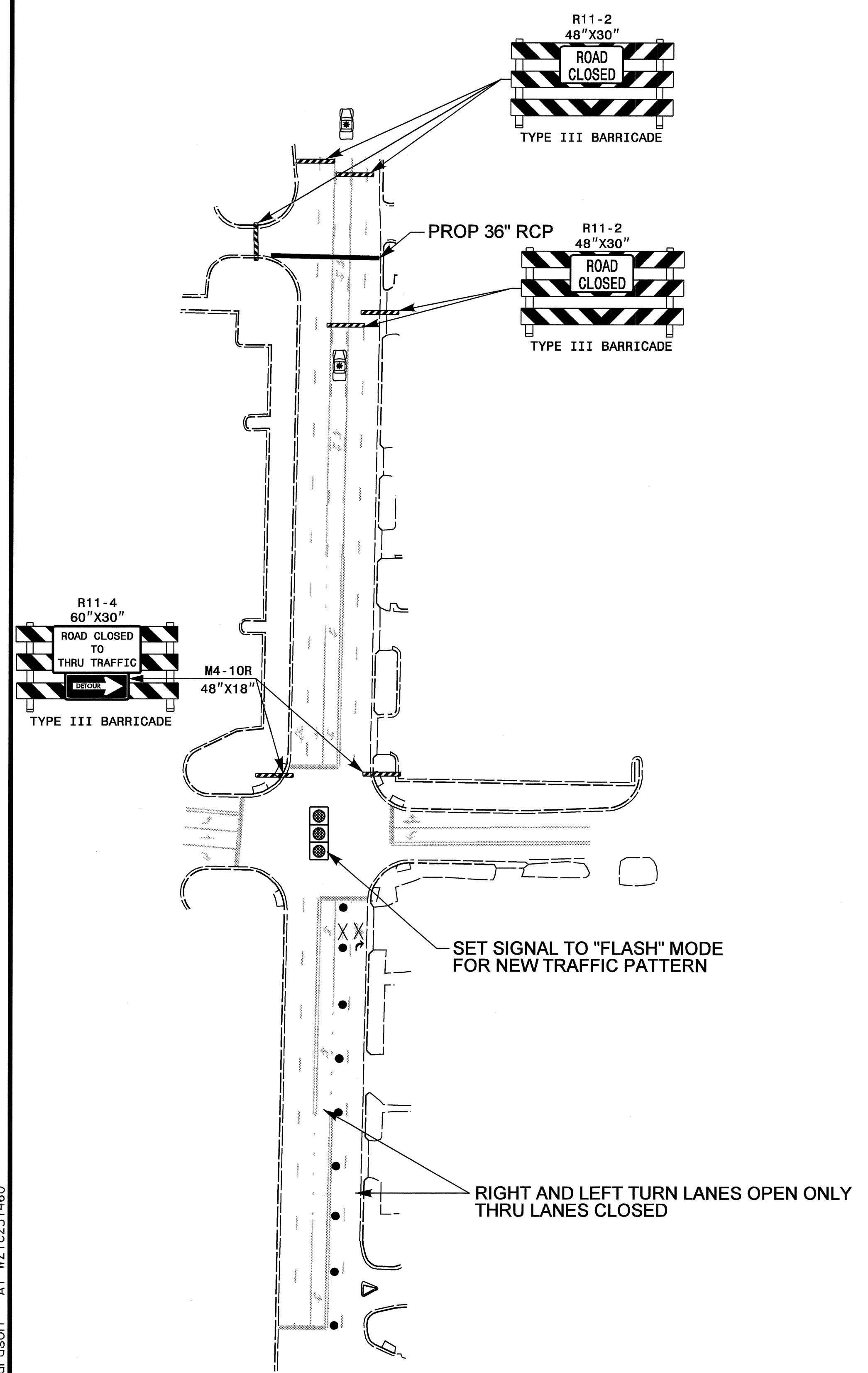


NOTE : SEE PM PLANS FOR STOPBAR LOCATIONS.

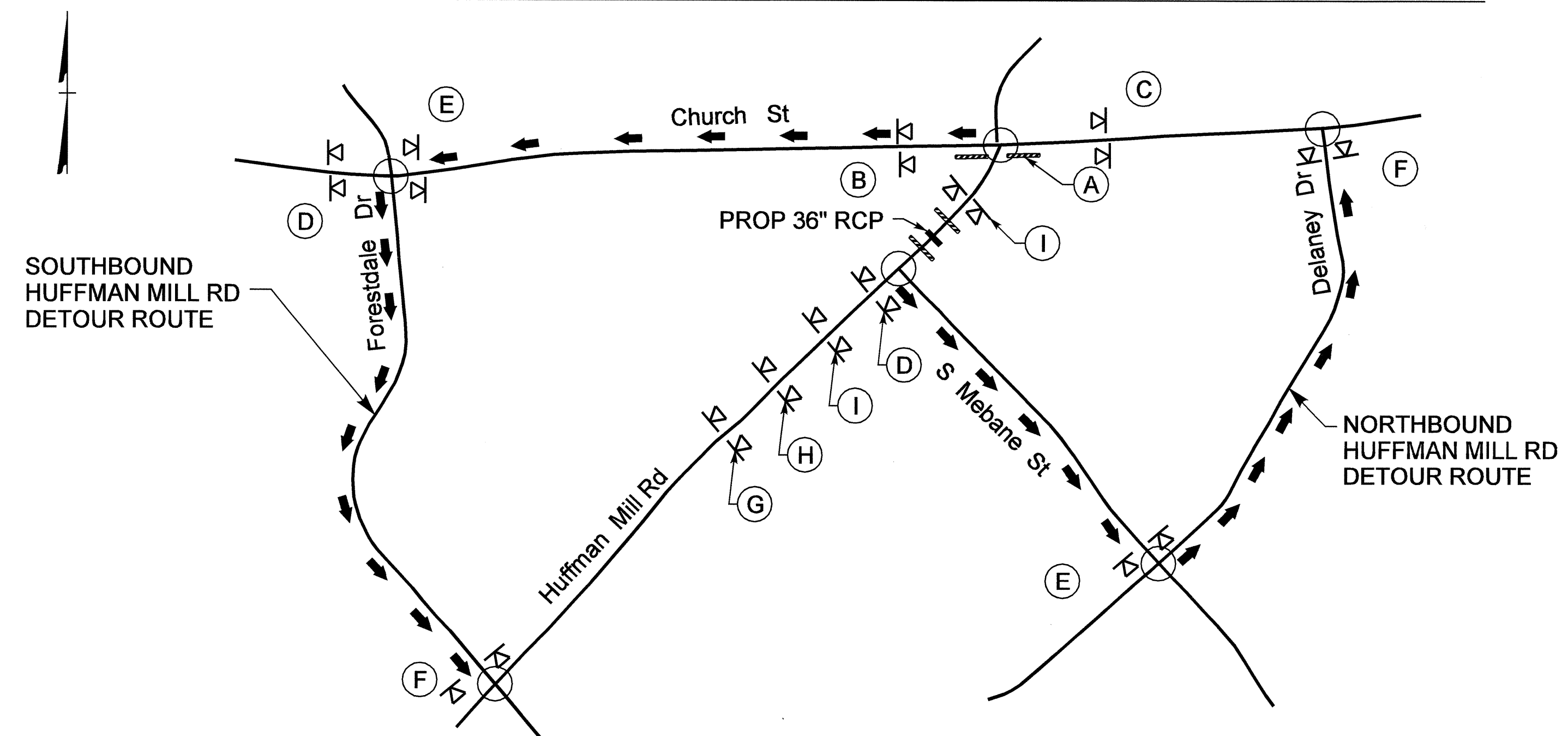
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REVIEWED BY: DP	REVISIONS	

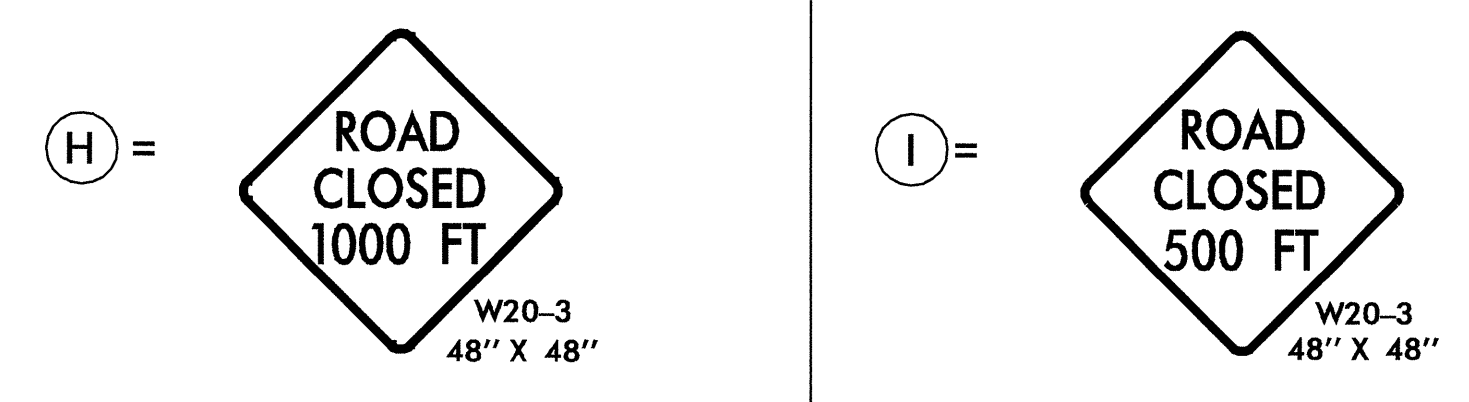
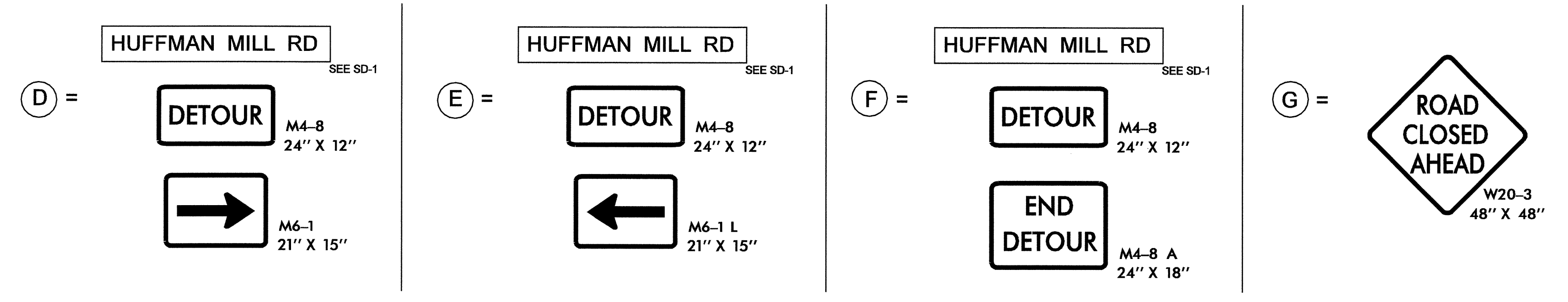
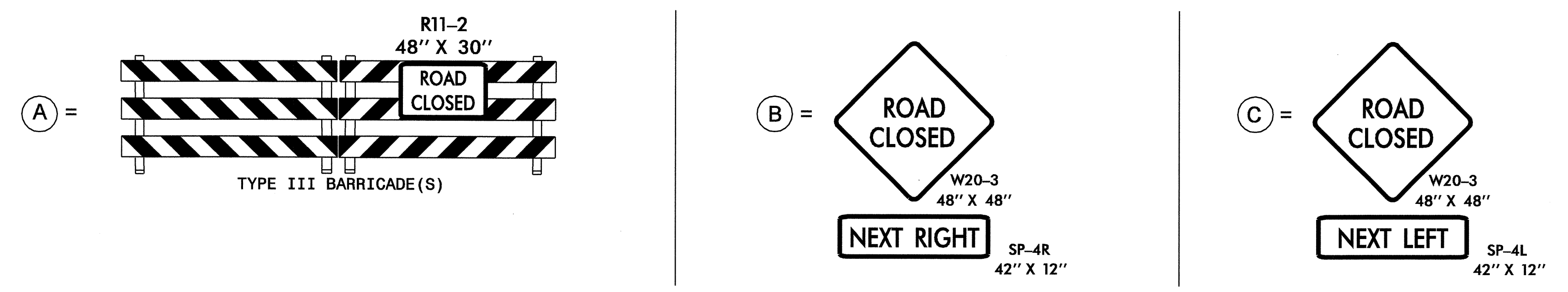
SEE ICT LIMITING ROAD CLOSURE TO 10PM SATURDAY TO NOON SUNDAY



MAP SHOWING PIPE INSTALLATION DETOUR ROUTE



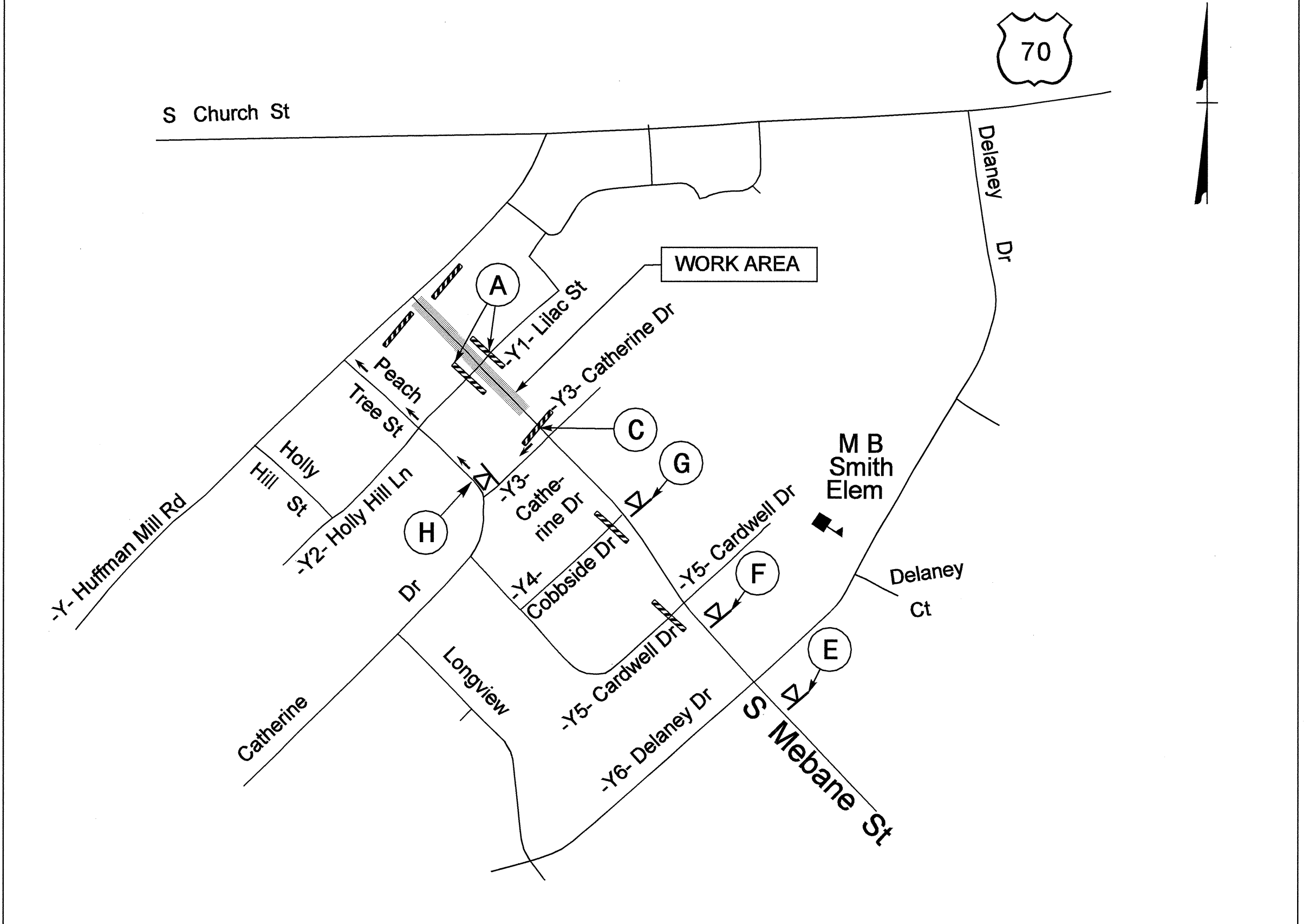
= HUFFMAN MILL RD DETOUR ROUTE
 = EXISTING SIGNAL TO BE MODIFIED FOR ROAD CLOSURE
 NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS



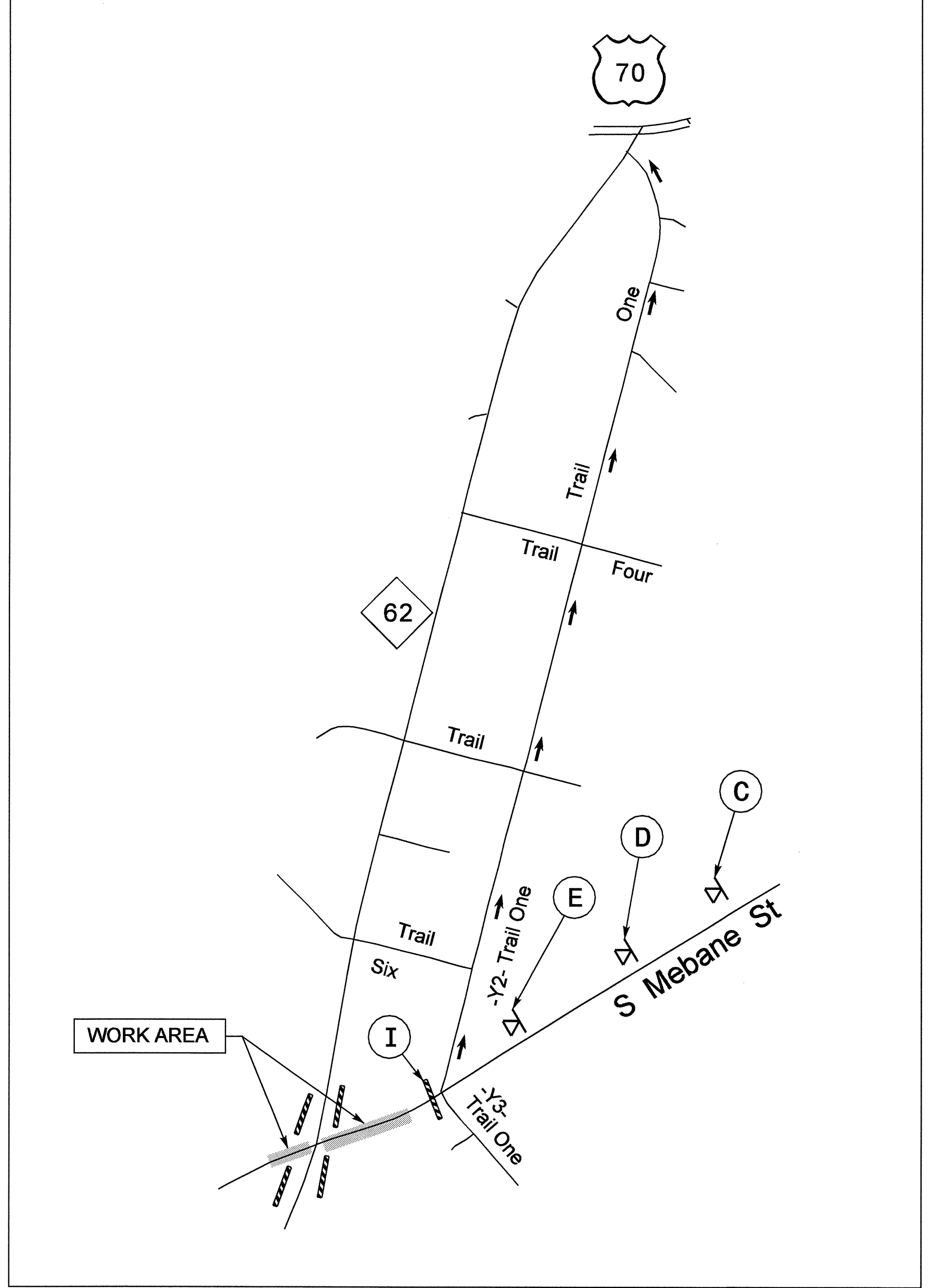
APPROVED:	DATE: 09/08	PROPOSED DETOUR MAP -Y1- HUFFMAN MILL RD					
SCALE: NONE	DATE: 09/08						
DWG. BY: DR	DESIGN BY: DR						
REVIEWED BY:							
<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS			
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 derichardson AT WZTC237460

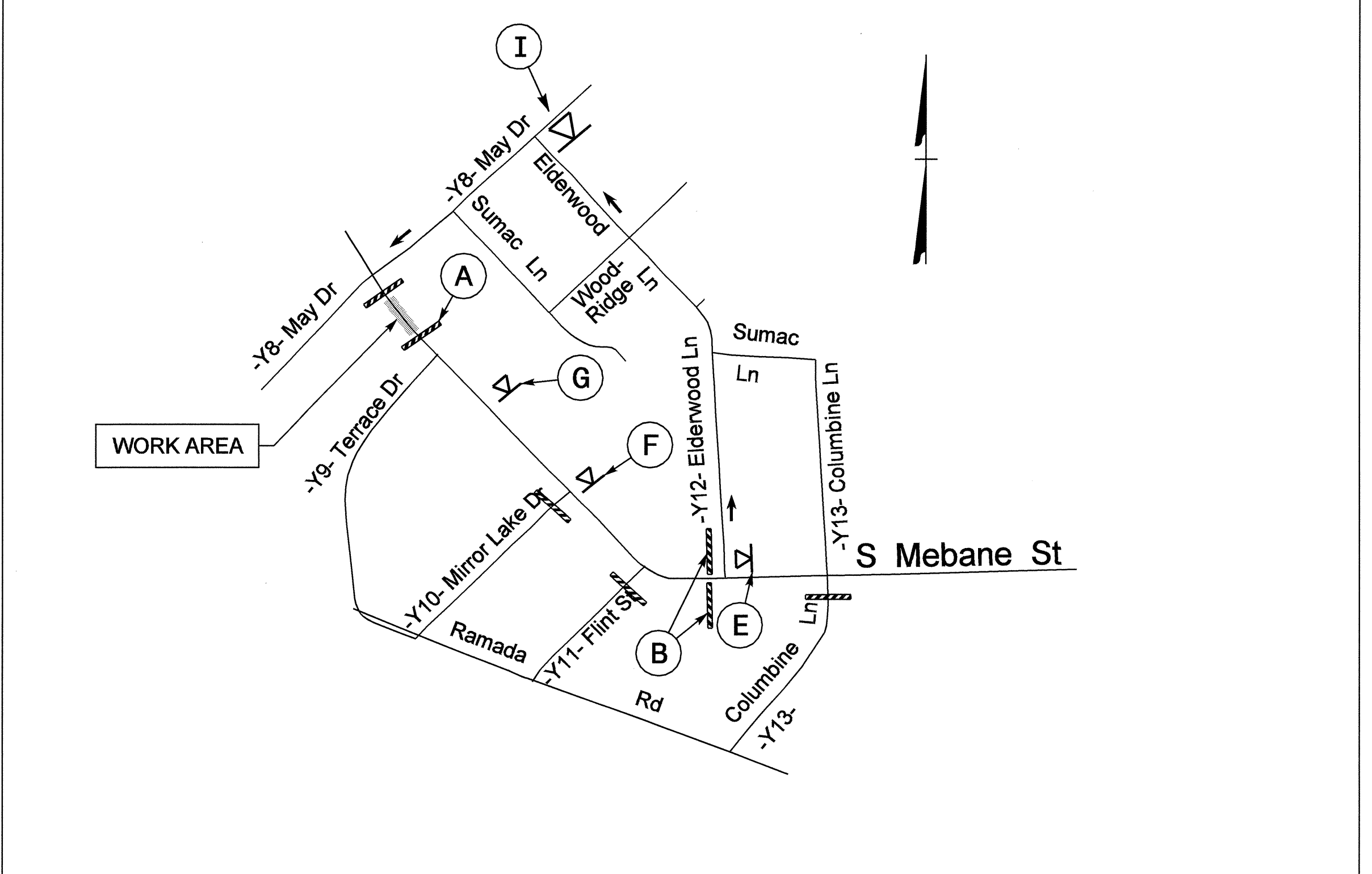
DETOUR ROUTE FOR INSTALLATION OF PIPE SYSTEM SHOWN ON TCP-4



DETOUR ROUTE FOR INSTALLATION OF PIPE SYSTEM SHOWN ON TCP-8



DETOUR ROUTE FOR INSTALLATION OF 60" PIPE SHOWN ON TCP-6



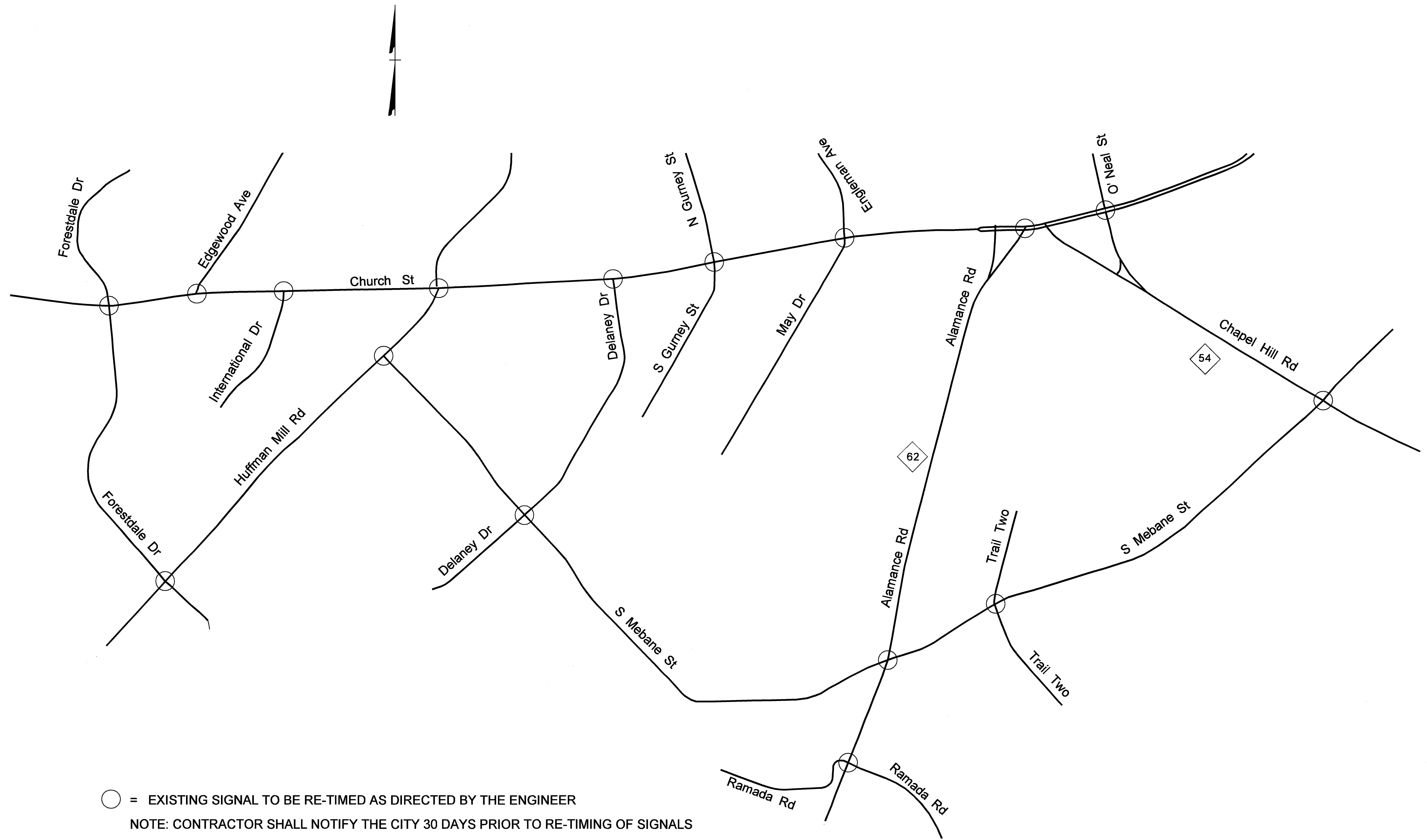
- (A) = R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE(S)
- (B) = R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC M4-10R 48" X 18" TYPE III BARRICADE
- (C) = R11-2 48" X 30" ROAD CLOSED W1-6L 48" X 24" TYPE III BARRICADE TYPE III BARRICADE
- (D) = R11-2 48" X 30" ROAD CLOSED M4-10R 48" X 18" TYPE III BARRICADE TYPE III BARRICADE
- (E) = ROAD CLOSED AHEAD W20-3 48" X 48"
- (F) = ROAD CLOSED 1000 FT W20-3 48" X 48"
- (G) = ROAD CLOSED 500 FT W20-3 48" X 48"

- (H) = STOP R1-1
 DETOUR M4-8 24" X 12"
 M6-1 21" X 15"
- (I) = STOP R1-1
 DETOUR M4-8 24" X 12"
 M6-1 L 21" X 15"

APPROVED: DATE: 12/16/08	PROPOSED DETOUR MAP -L- S MEBANE ST	
SEAL:		
SCALE: NONE		REVISIONS
DATE: 12/08		
DWG. BY: DR		
DESIGN BY: DR		
REVIEWED BY:		CADD FILE

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MAP SHOWING EXISTING SIGNALS TO BE RE-TIMED DURING OR PRIOR TO TRAFFIC SHIFTS

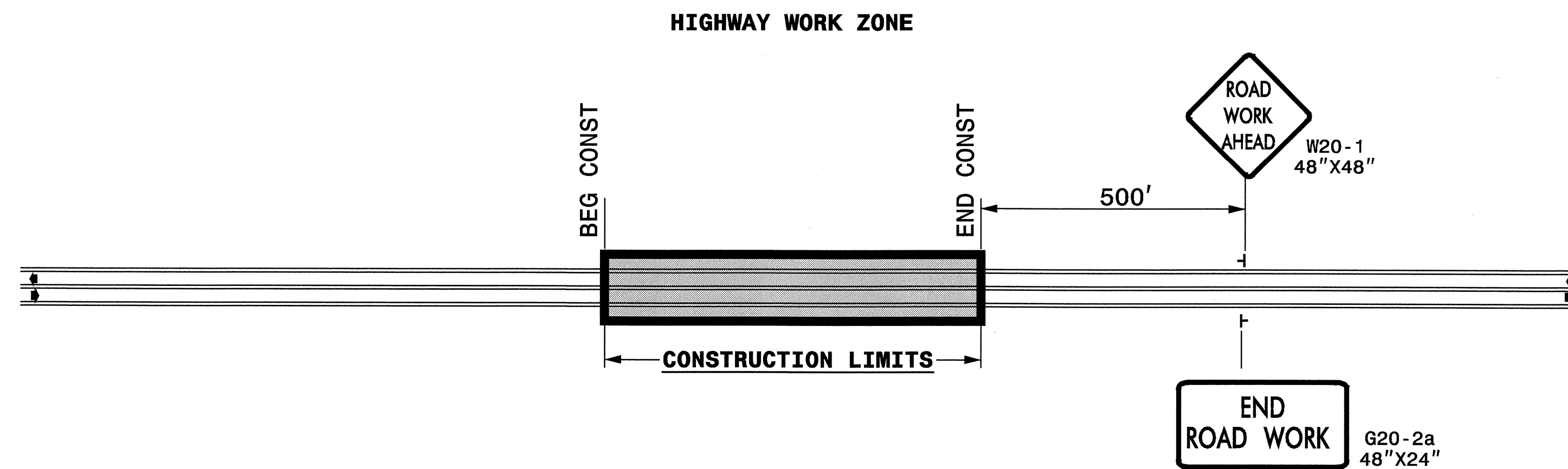


○ = EXISTING SIGNAL TO BE RE-TIMED AS DIRECTED BY THE ENGINEER
 NOTE: CONTRACTOR SHALL NOTIFY THE CITY 30 DAYS PRIOR TO RE-TIMING OF SIGNALS

20-NOV-2008 09:41
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 derichardson AT WZ1237460

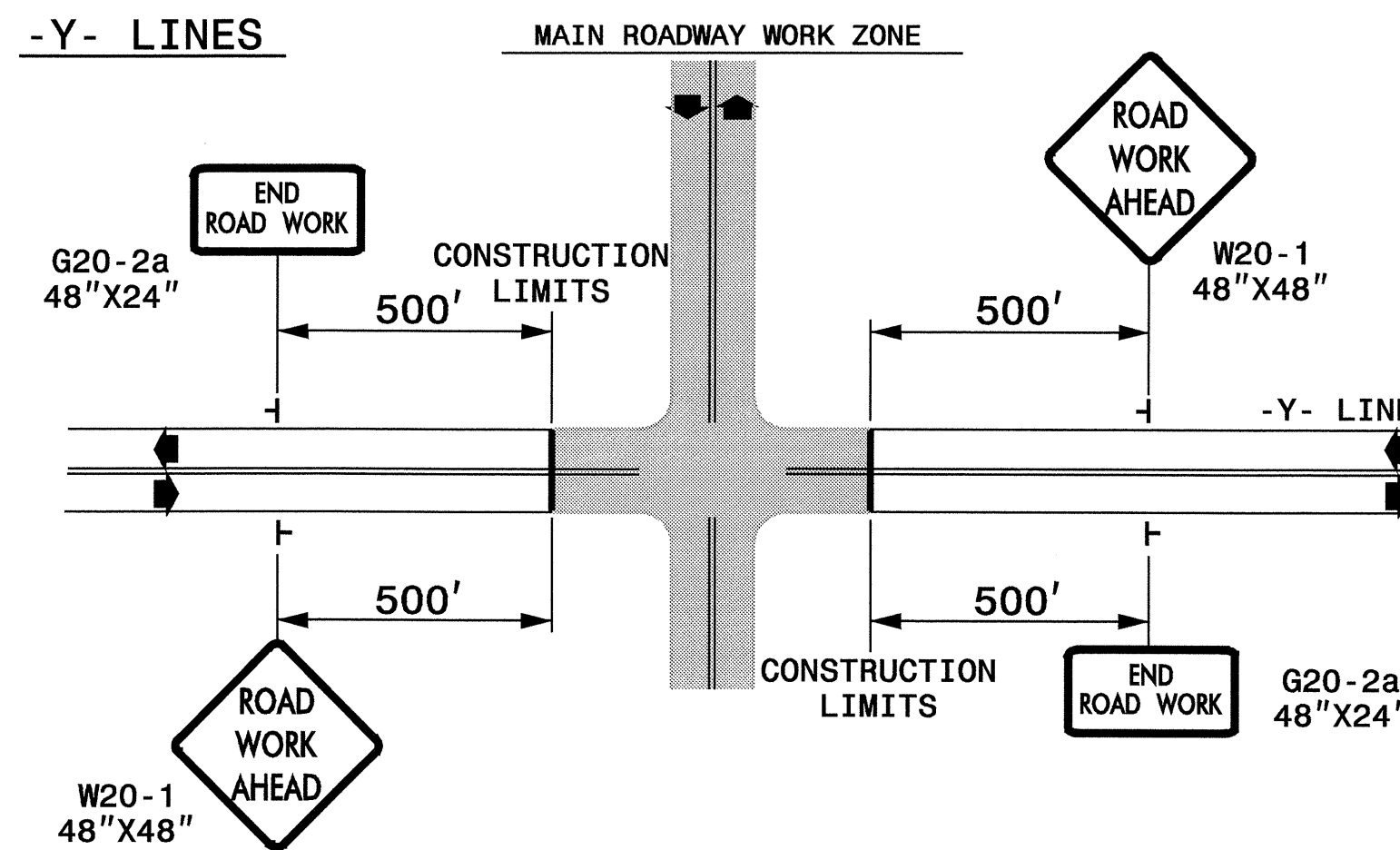
APPROVED: DATE: 12/4/08 <div style="text-align: center;"> SEAL JOHN S. RITE ENGINEER 022104 NORTH CAROLINA </div>	<h3>RE-TIMED SIGNAL MAP</h3>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">SCALE:</td> <td>NONE</td> </tr> <tr> <td style="font-size: small;">DATE:</td> <td>09/08</td> </tr> <tr> <td style="font-size: small;">DWG. BY:</td> <td>DR</td> </tr> <tr> <td style="font-size: small;">DESIGN BY:</td> <td>DR</td> </tr> <tr> <td style="font-size: small;">REVIEWED BY:</td> <td></td> </tr> </table>	SCALE:	NONE	DATE:	09/08	DWG. BY:	DR	DESIGN BY:	DR	REVIEWED BY:	
SCALE:	NONE											
DATE:	09/08											
DWG. BY:	DR											
DESIGN BY:	DR											
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TWO-WAY UNDIVIDED ** (L-LINES)



STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

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



TO BE USED ON THE FOLLOWING -Y- LINES ONLY:

HUFFMAN MILL RD
 NC 62
 NC 54

DETAIL DRAWING FOR
 TWO-WAY UNDIVIDED
 WORK ZONE WARNING SIGNS

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

- ┆ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: <i>[Signature]</i> DATE: 12/14/08	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
	SCALE: NONE	REVISIONS
	DATE: 12/14/08	7-98 10/01
	DWG. BY:	10-98 03/04
	DESIGN BY:	01/01 11/04
REVIEWED BY:		CADD FILE

16-DEC-2008 13:45
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 AT WZTC237460
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