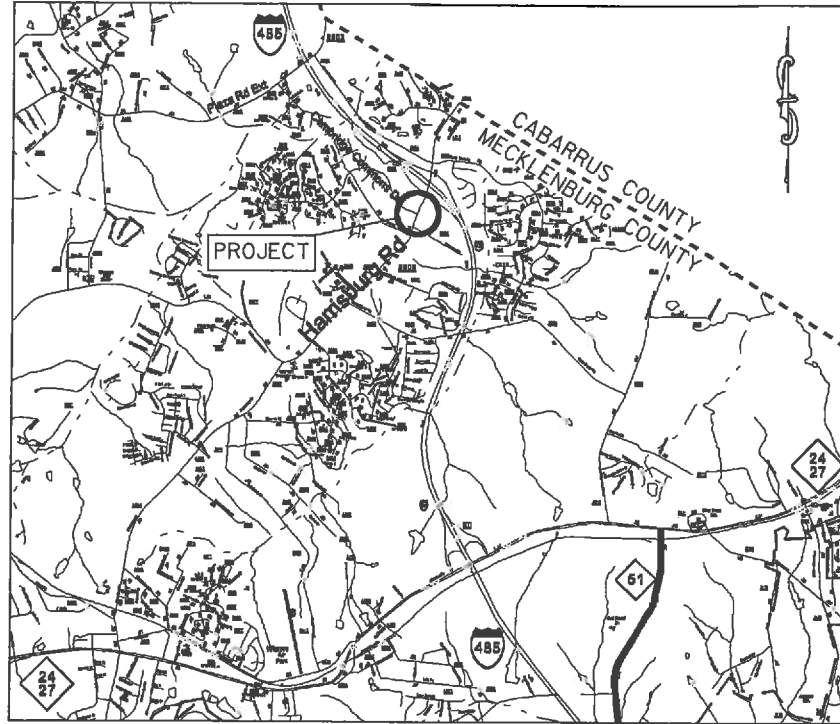


PROJECT: 43197.3.1 TIP:SS-4910AL

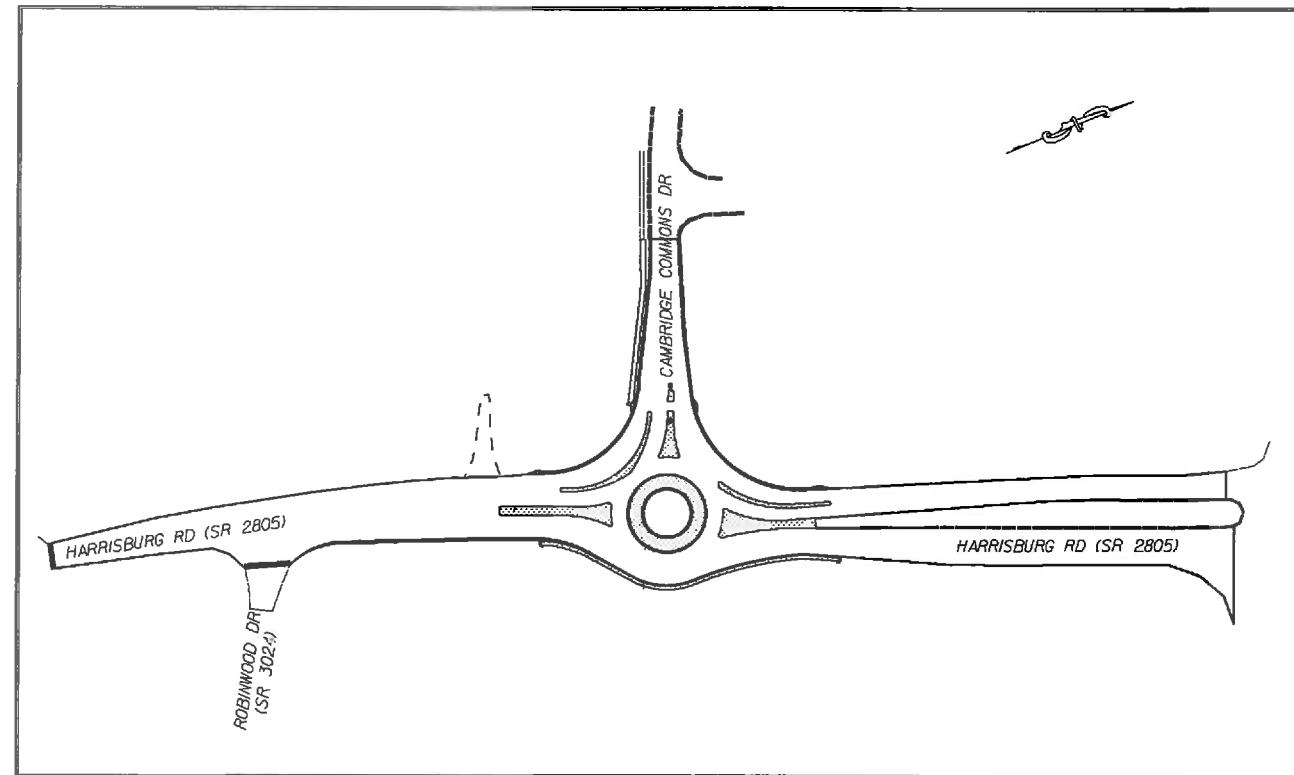


VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
MECKLENBURG COUNTY

LOCATION: INTERSECTION OF HARRISBURG RD. (SR-2805)
AND CAMBRIDGE COMMONS DRIVE.

TYPE OF WORK: GRADING, PAVING, DRAINAGE, CONCRETE ISLANDS &
THERMOPLASTIC PAVEMENT MARKINGS



CLEARING ON THIS PROJECT SHALL BE TO THE LIMITS ESTABLISHED BY METHOD II AS DESCRIBED IN THE NCDOT STANDARD DRAWINGS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
43197.1.1		P.E.	
43197.2.1		R/W	
43197.3.1		CONST.	

GRAPHIC SCALES



DESIGN DATA

ADT 2010 = 13,000
ADT 2025 = 17,500
DHV = 10 %
D = %
T = %
V = 50 MPH

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 43197.3.1 = 0.295 MILES
TOTAL LENGTH OF STATE PROJECT 43197.3.1 = 0.295 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
DIVISION TEN
DIVISION DESIGN / CONSTRUCT UNIT

RIGHT OF WAY DATE:

RANDY BOWERS
PROJECT ENGINEER

LETTING DATE:
June 12, 2013

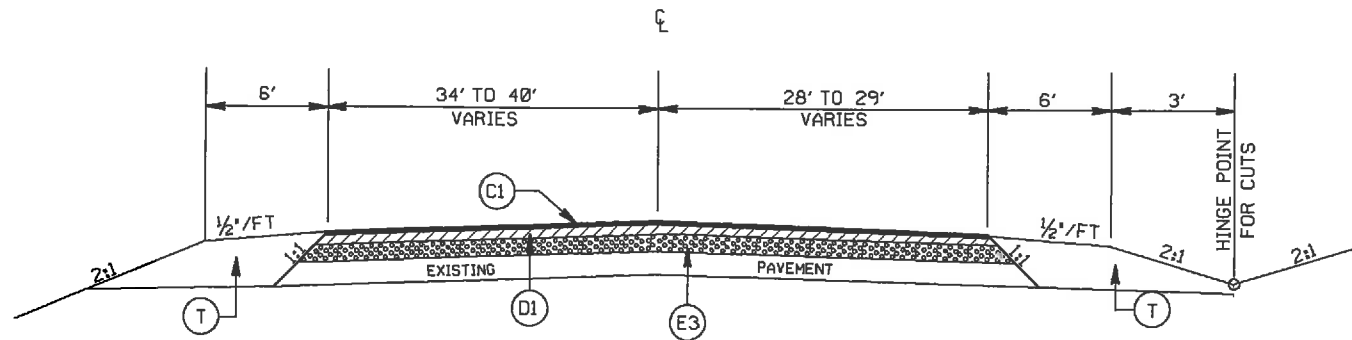
TERRY BURLESON
PROJECT DESIGN ENGINEER



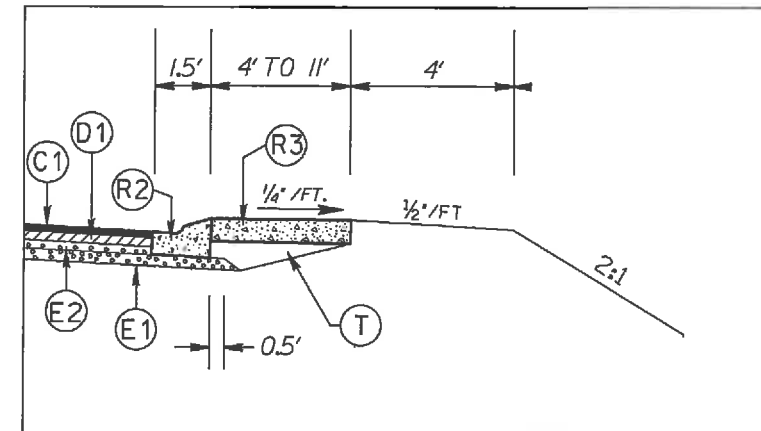
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

APPROVED BY _____ DATE _____
DDC ENGINEER

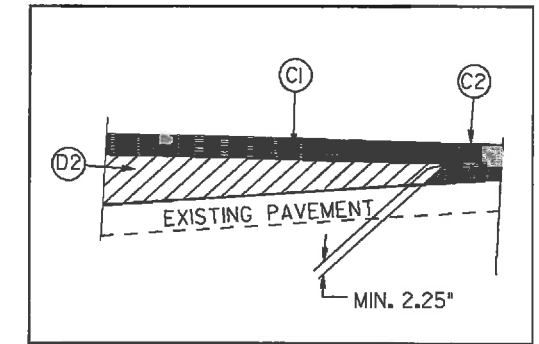
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.I	2	
F.A. PROJECT NO.			



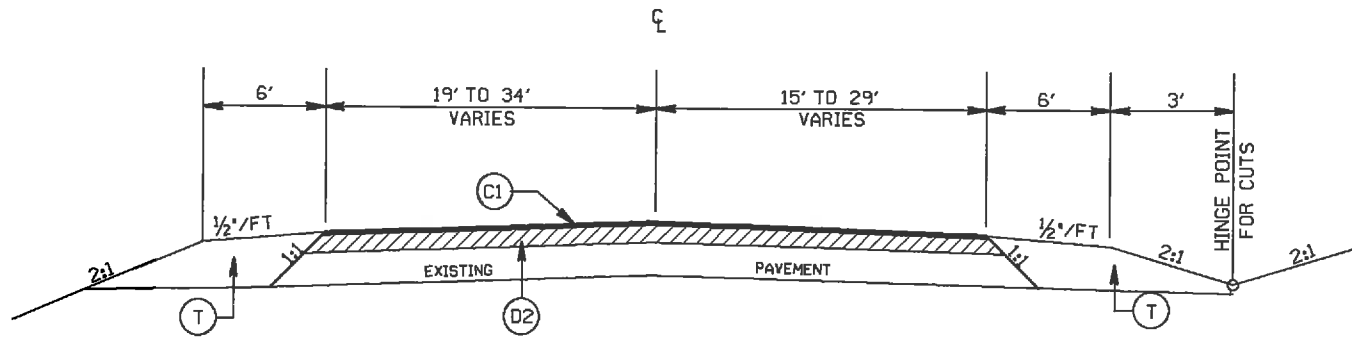
TYPICAL SECTION NO. 3
STA. 13+93 TO 15+34.13 -L-



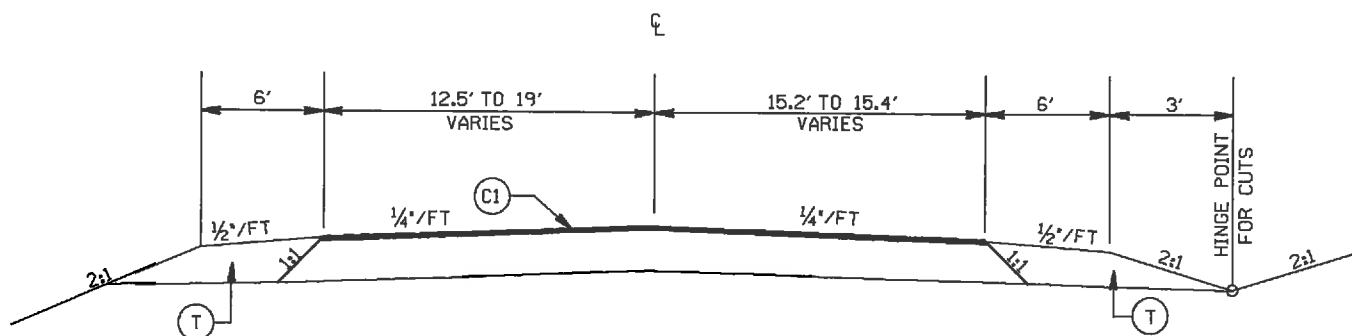
APRON DETAIL 1



WEDGING DETAIL



TYPICAL SECTION NO. 2
STA. 11+00 TO 13+93 -L-



TYPICAL SECTION NO. 1
STA. 10+39.85 TO 11+00 -L-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. BINDER COURSE.
(E1)	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. APPROX. 3.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
(E3)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 2'-6" CURB & GUTTER
(R2)	PROP. 1'-6" CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R3)	PROP. 7" TRUCK MOUNTABLE CONC ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 5" MONOLITHIC CONCRETE ISLAND
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

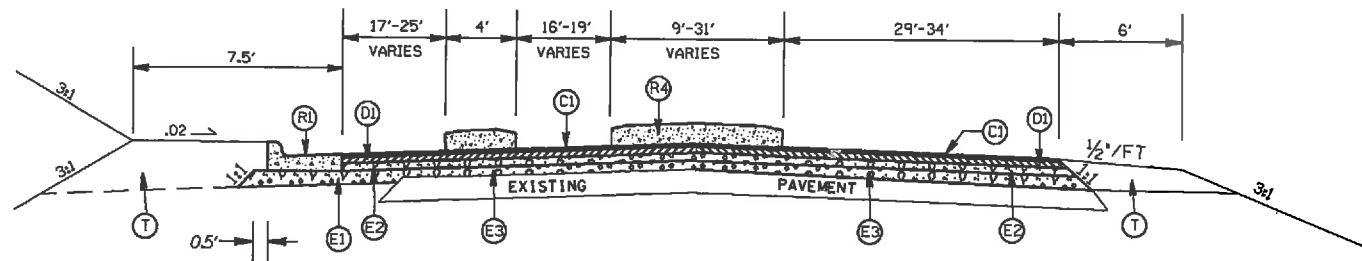
HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBOUT

SCALE	-NA-
DATE	12-12
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB



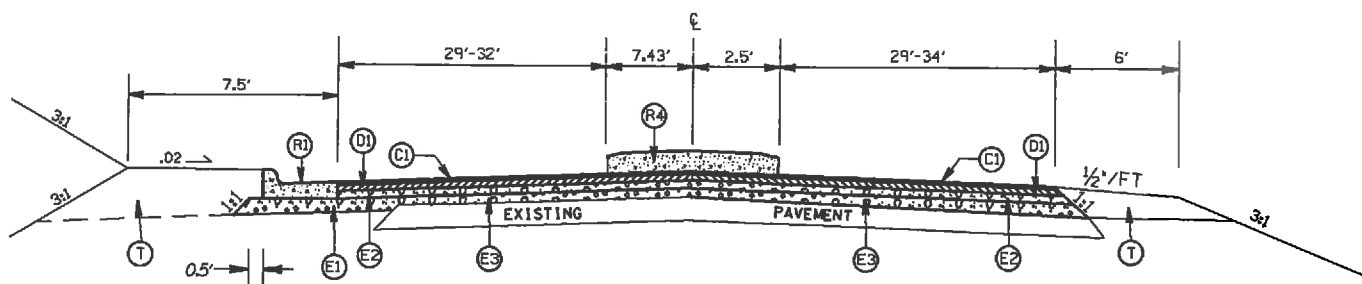
REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	2A	
F.A. PROJECT NO.			



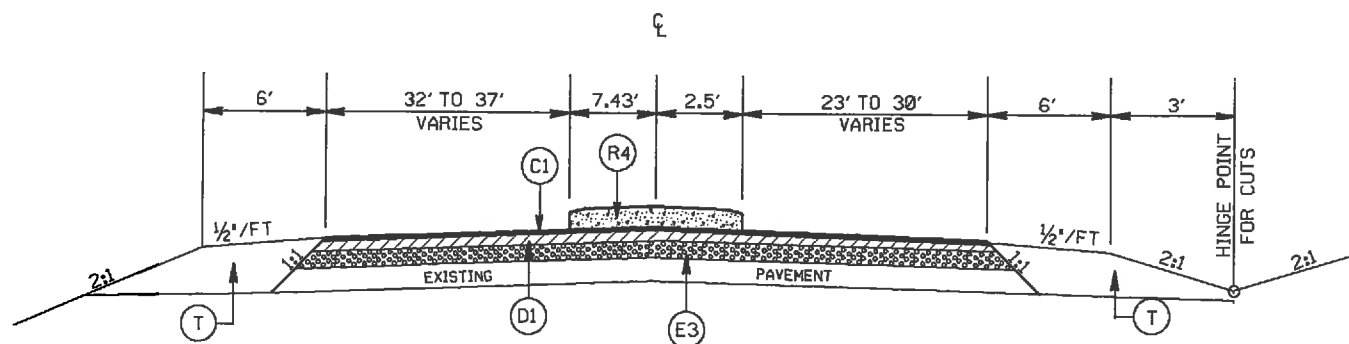
TYPICAL SECTION NO. 6

STA. 16+01.45 TO 16+57 -L-
STA. 17+79 TO 18+79.69 -L-



TYPICAL SECTION NO. 5

STA. 15+78.12 TO 16+01.45 -L-



TYPICAL SECTION NO. 4

STA. 15+34.13 TO 15+78.12 -L-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. BINDER COURSE.
(E1)	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. APPROX. 3.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
(E3)	PROP. VARIABLE DEPTH ASPHALT CONC. BASE COURSE.
(R1)	PROP. 2'-6" CURB & GUTTER
(R2)	PROP. 1'-6" CURB & GUTTER W/ BLACK TINT, CLASS AA CONCRETE
(R3)	PROP. 7" TRUCK MOUNTABLE CONC ISLAND W/ BLACK TINT, CLASS AA CONCRETE
(R4)	PROP. 5' MONOLITHIC CONCRETE ISLAND
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

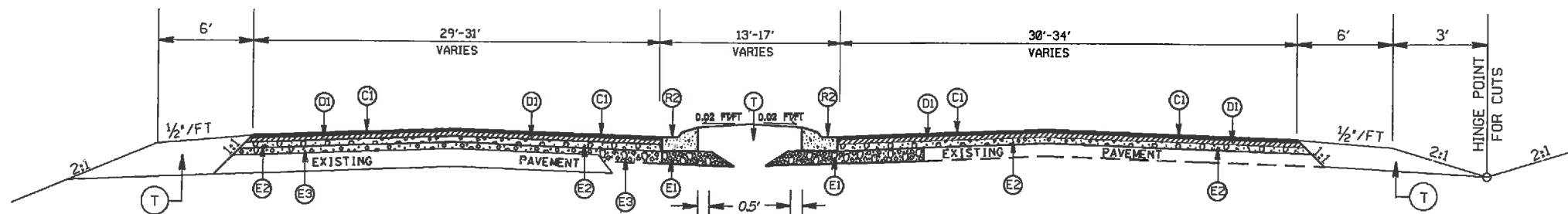
HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBABOUT

SCALE	-NA-
DATE	12-12
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB

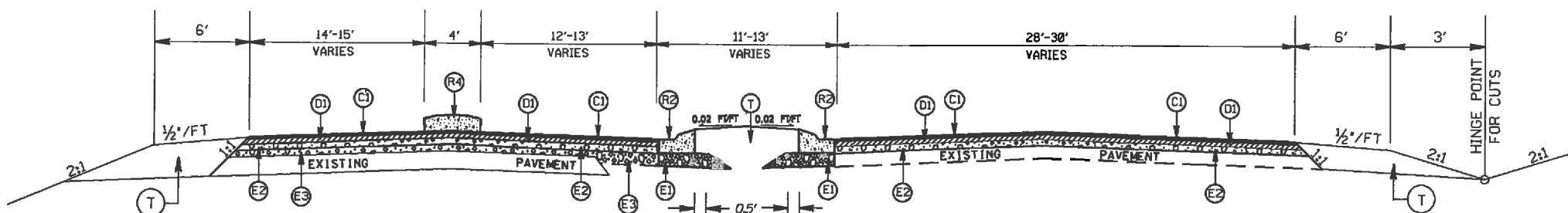


REVISIONS	

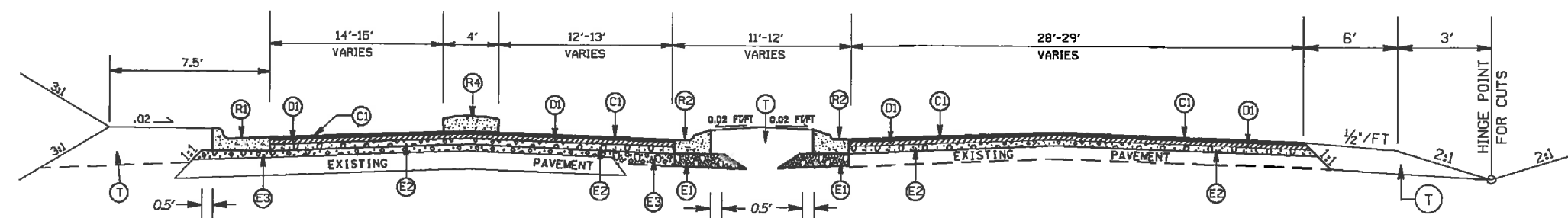
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	2B	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 9
STA. 18+96.03 TO 19+50 -L-



TYPICAL SECTION NO. 8
STA. 18+82.63 TO 18+96.03 -L-



TYPICAL SECTION NO. 7
STA. 18+79.69 TO 18+82.63 -L-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C. AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C. AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. BINDER COURSE.
(E1)	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C. AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. APPROX. 3.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C. AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
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(R4)	PROP. 5" MONOLITHIC CONCRETE ISLAND
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

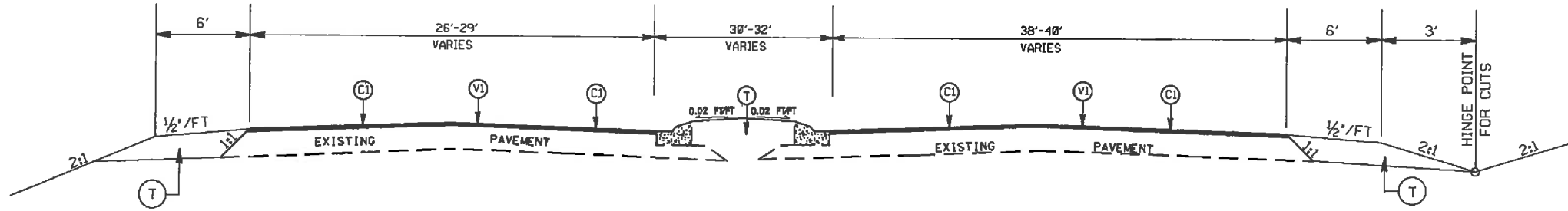
HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBOUT

SCALE	-NA-
DATE	12-12
DWG. BY	JCH
DESIGN BY	JCH
APPROVED	RWB

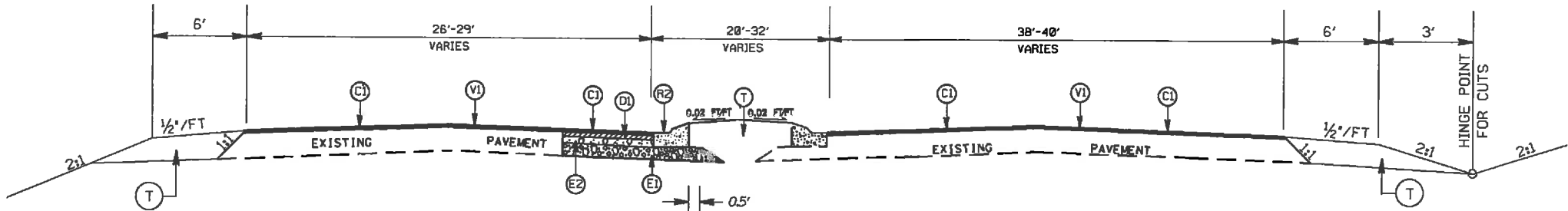


REVISIONS	

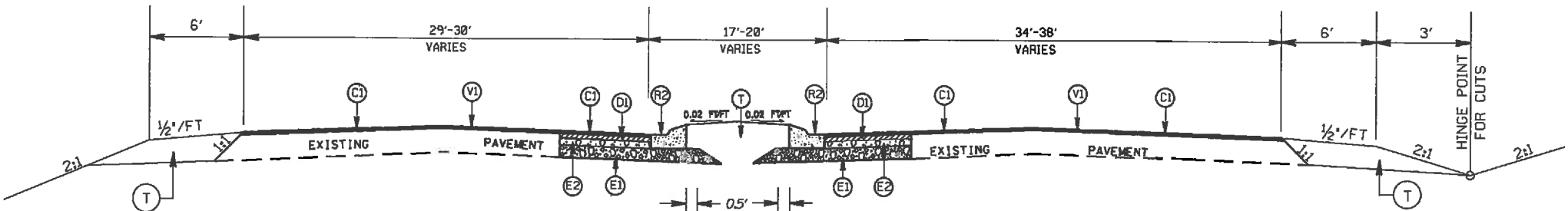
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	2C	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 12
STA. 22+13.27 TO 23+40 -L-



TYPICAL SECTION NO. 11
STA. 20+80 TO 22+13.27 -L-



TYPICAL SECTION NO. 10
STA. 19+50 TO 20+80 -L-

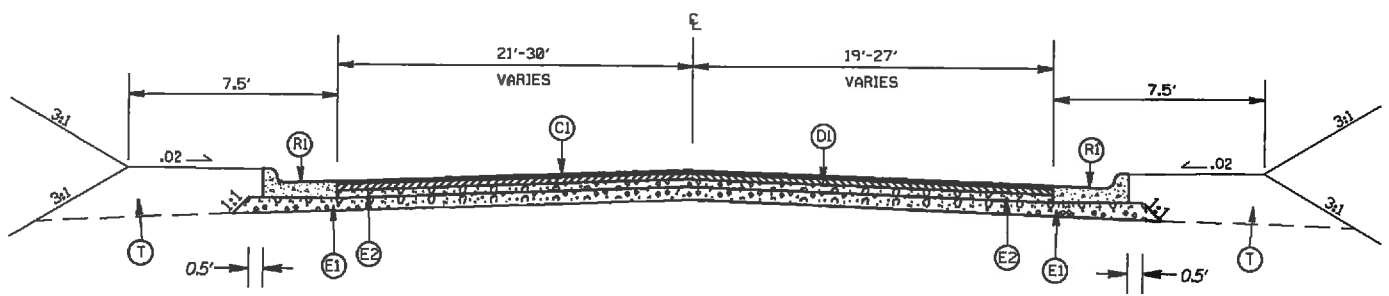
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VARIABLE DEPTH ASPHALT CONC. SURFACE COURSE.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. VARIABLE DEPTH ASPHALT CONC. BINDER COURSE.
(E1)	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(E2)	PROP. APPROX. 3.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
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(R4)	PROP. 5" MONOLITHIC CONCRETE ISLAND
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5' IN DEPTH

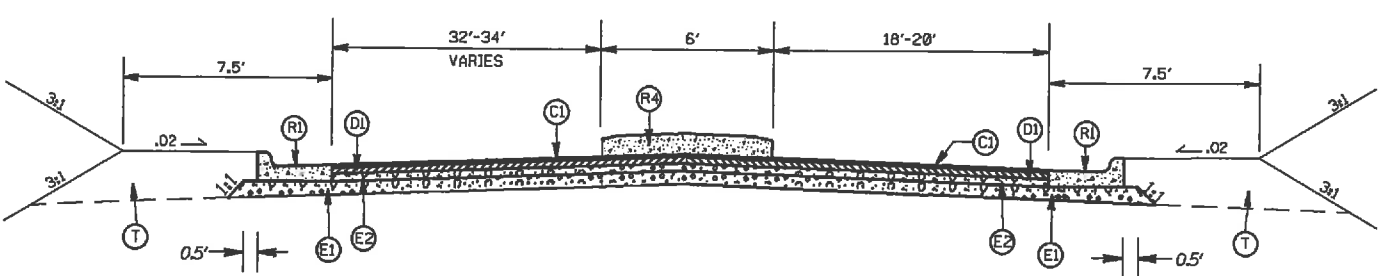
HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBOUT

SCALE	-NA-		REVISIONS
DATE	12-12		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	RWB		

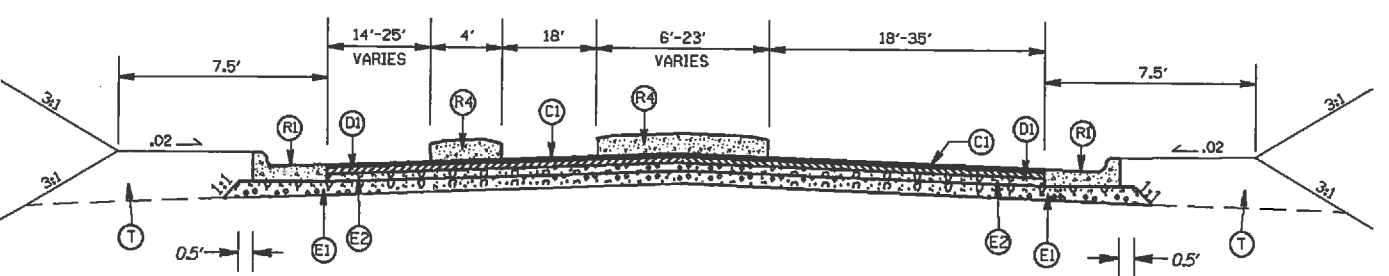
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	2D	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 15
 STA. 11+12 TO 11+22 -Y-
 STA. 11+35 TO 12+00 -Y-



TYPICAL SECTION NO. 14
 STA. 11+22 TO 11+35 -Y-



TYPICAL SECTION NO. 13
 STA. 10+60 TO 11+12 -Y-

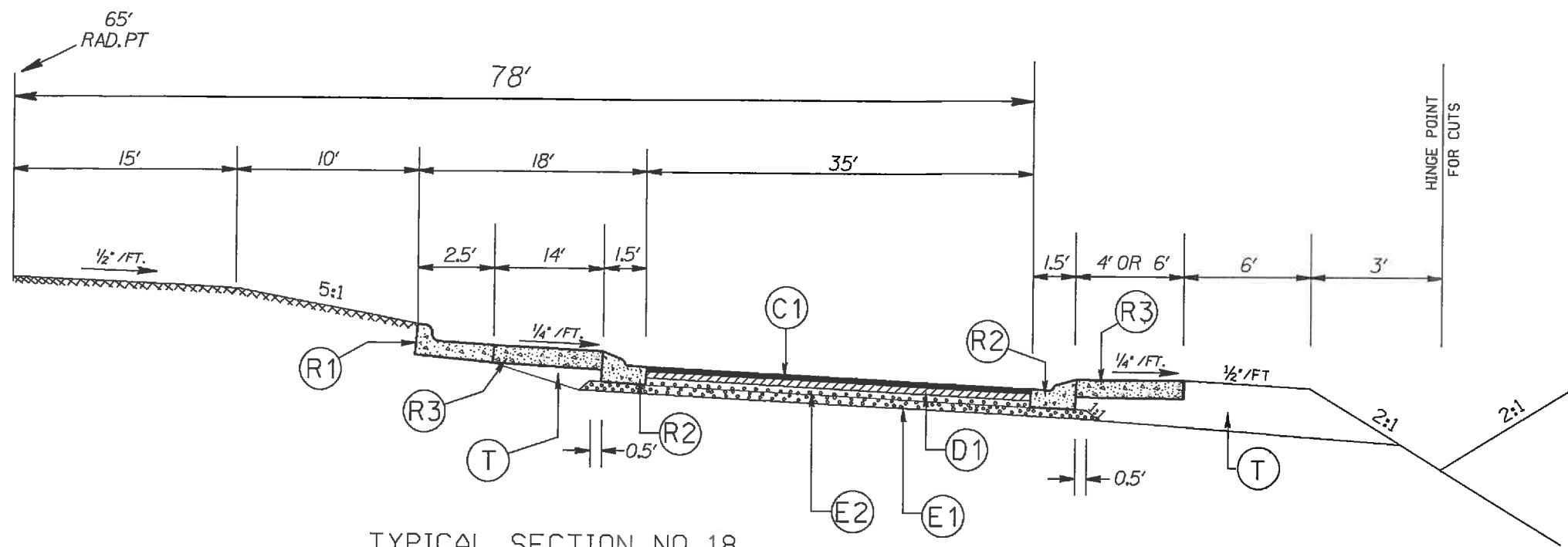
PAVEMENT SCHEDULE

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(R4)	PROP. 5' MONOLITHIC CONCRETE ISLAND
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

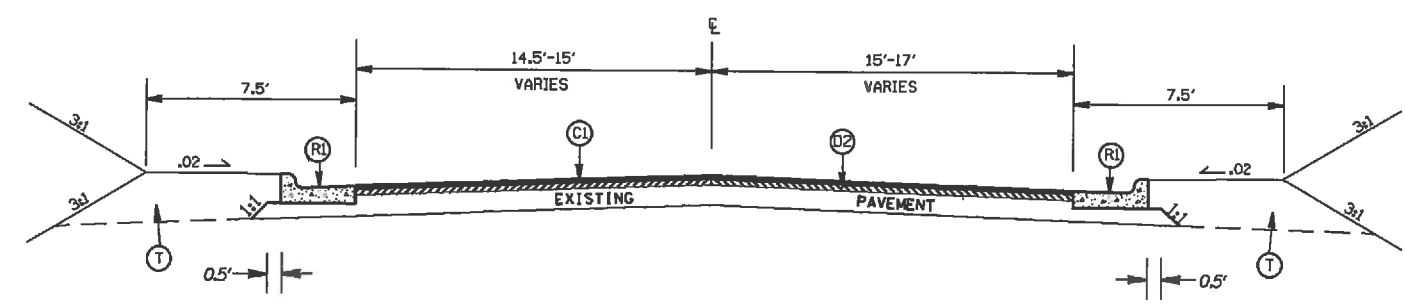
HARRISBURG RD. & CAMBRIDGE COMMONS
 ROUNDABOUT

SCALE	-NA-		REVISIONS
DATE	12-12		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	RWB		

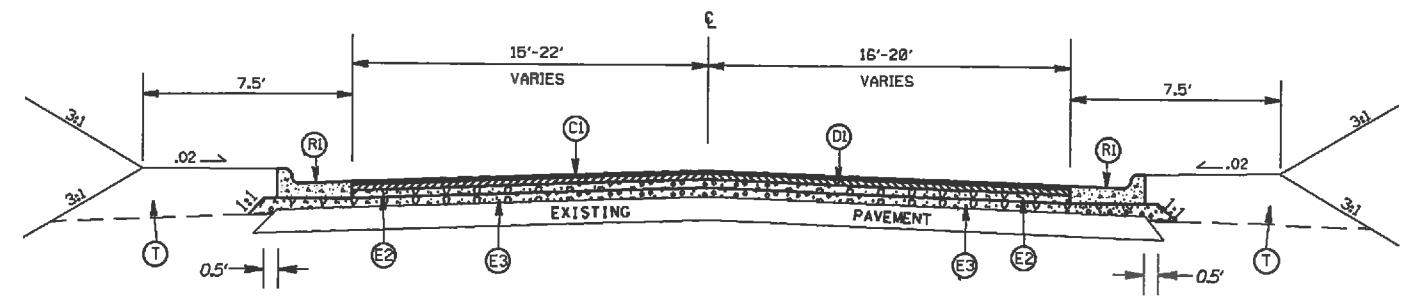
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	2E	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 18
ROUNDBOUT



TYPICAL SECTION NO. 17
STA. 12+59.39 TO 12+80 -Y-




TYPICAL SECTION NO. 16
STA. 12+00 TO 12+59.39 -Y-

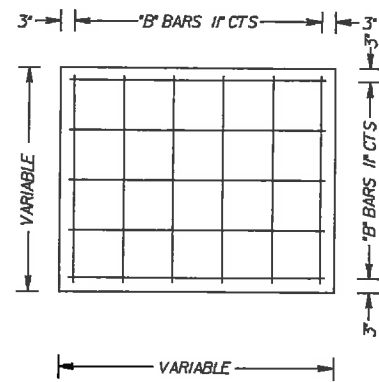
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

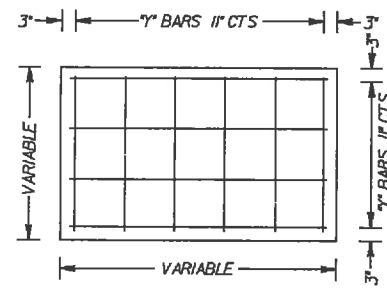
HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBOUT

SCALE	-NA-		REVISIONS
DATE	12-12		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43/97.3J	2F	
F.A. PROJECT NO.			



TOP SLAB



BOTTOM SLAB

NOTES:

MORTAR JOINT 1/2" TO 1/4" THICK.

USE TYPE "E", "F", AND "G" GRATES UNLESS OTHERWISE INDICATED.

USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.

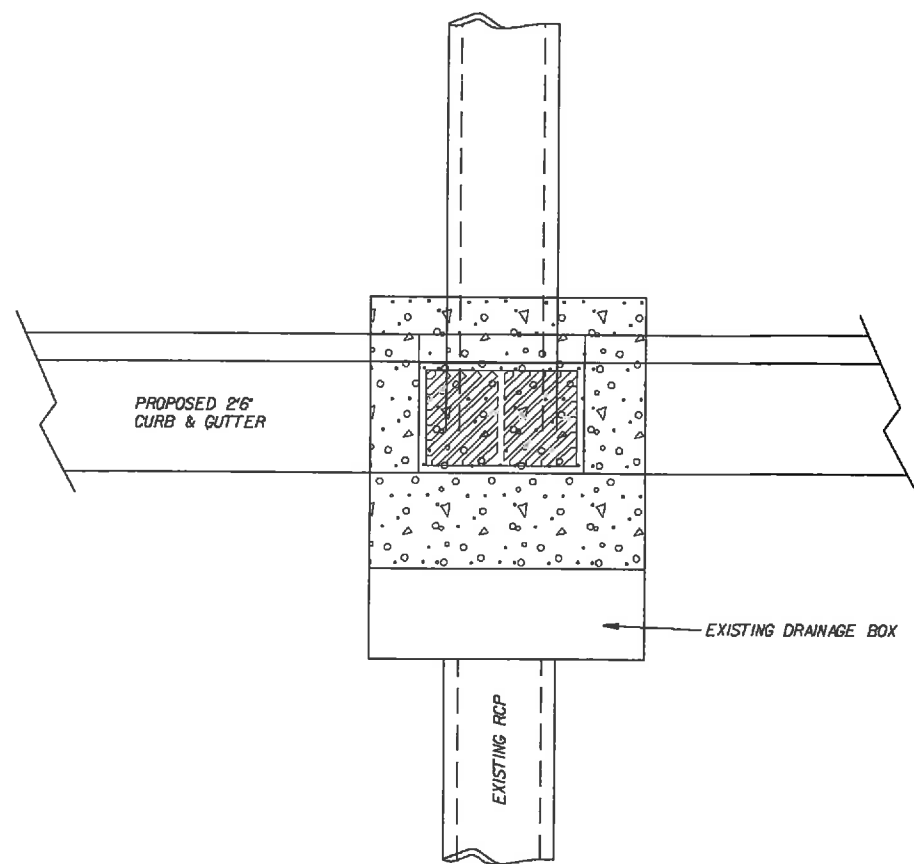
CHAMFER ALL EXPOSED CORNERS 1".

USE FORMS FOR CONSTRUCTION OF CONCRETE SLABS.

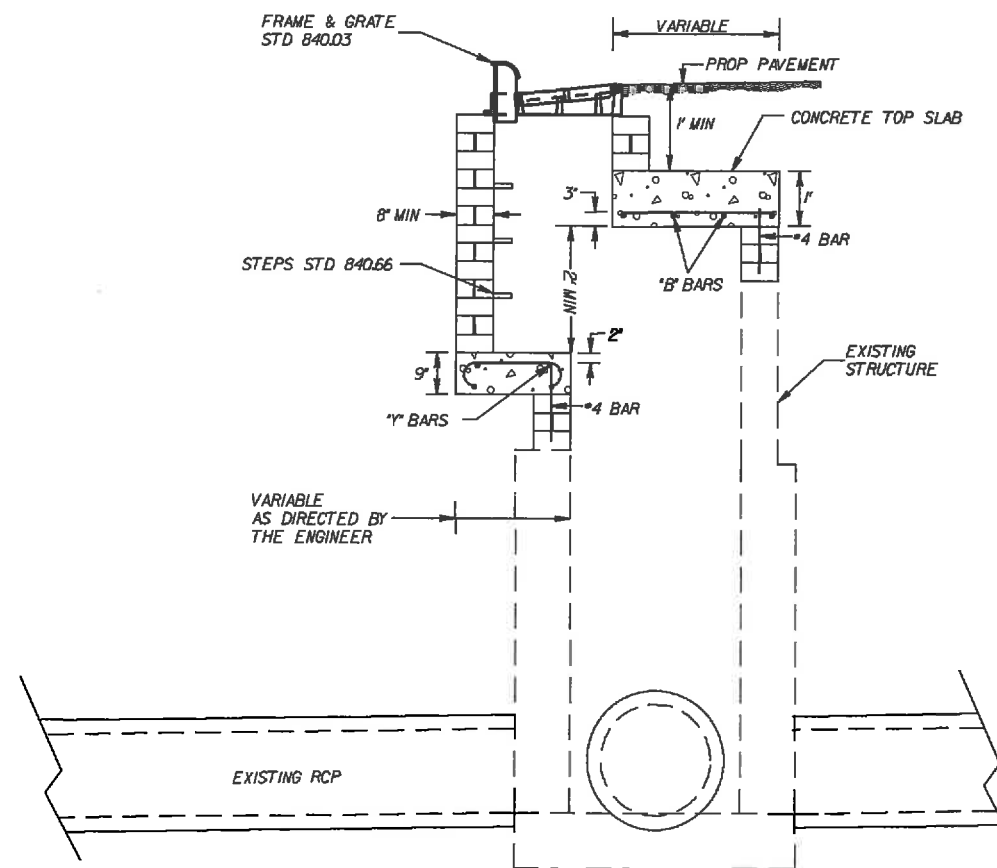
DOUBLE MAT STEEL MAY BE USED IN LIEU OF HOOK BARS IN BASE SLAB.

ALL BRICK, BLOCK, CONCRETE, REINFORCING STEEL, AND ALL INCIDENTALS NECESSARY TO CONSTRUCT THIS STRUCTURE WILL BE INCLUDED IN THE UNIT BID PRICE FOR "OFFSET CATCH BASIN".

THE FRAME & GRATE WILL BE PAID FOR AT THE CONTRACT BID PRICE FOR "FRAME & GRATE, TYPE *-".



PLAN VIEW (NTS)



SECTION VIEW (NTS)

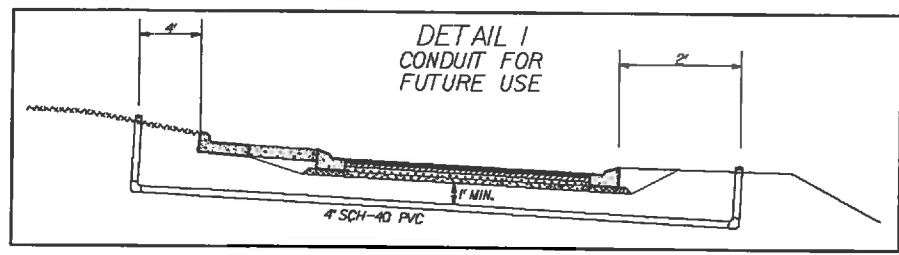
OFFSET CATCH BASIN

SCALE	-NA-
DATE	01/02/13
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	



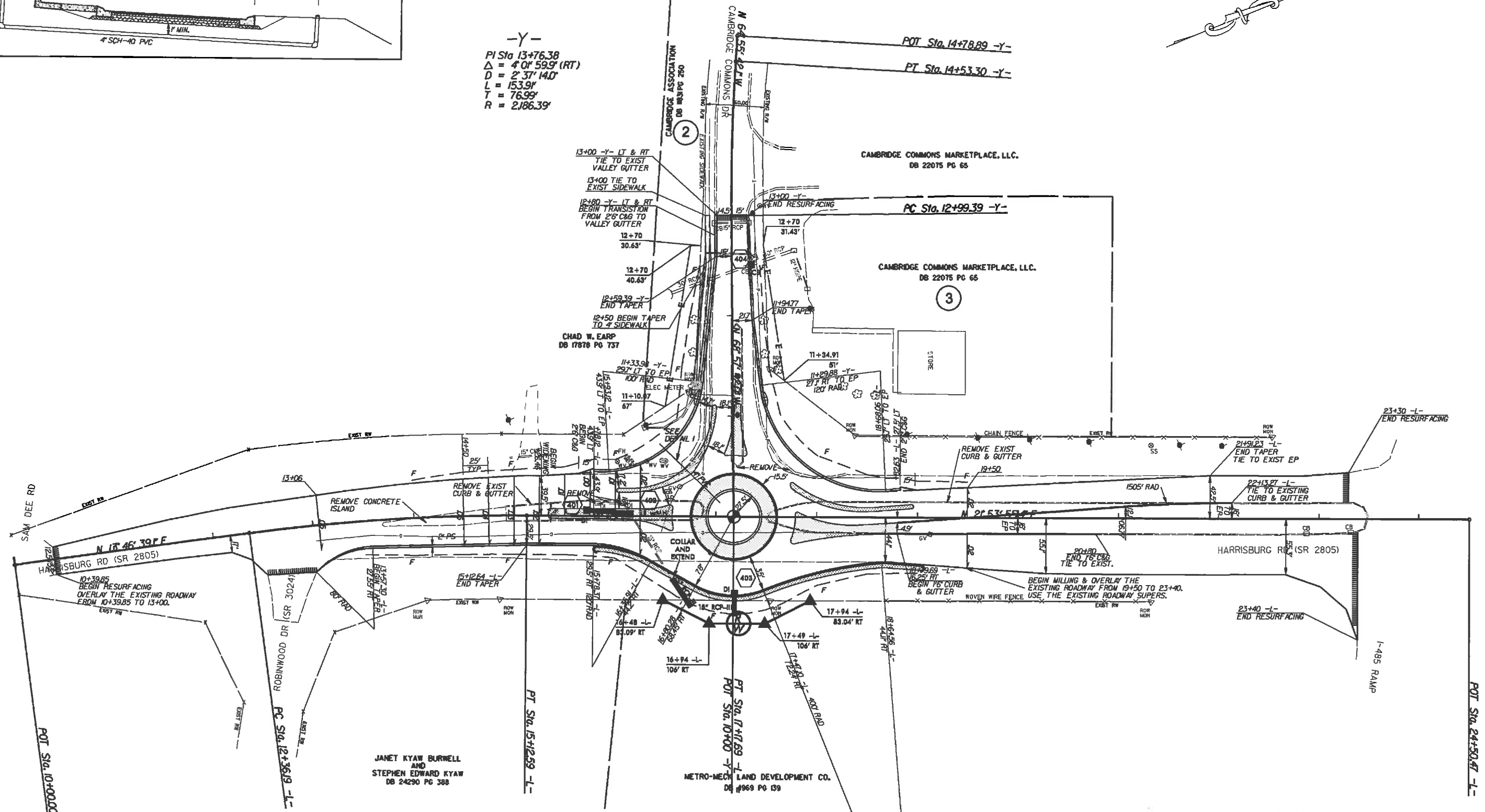
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3J	4	
F.A. PROJECT NO.			



-Y-
 PI Sta 13+76.38
 $\Delta = 4' 01'' 59.9''$ (RT)
 $D = 2' 37'' 14.0''$
 $L = 153.9'$
 $T = 76.99'$
 $R = 2,186.39'$

-L-
 PI Sta 13+74.62
 $\Delta = 8' 07'' 16.3''$ (RT)
 $D = 2' 56'' 17.7''$
 $L = 276.40'$
 $T = 138.43'$
 $R = 1,950.00'$

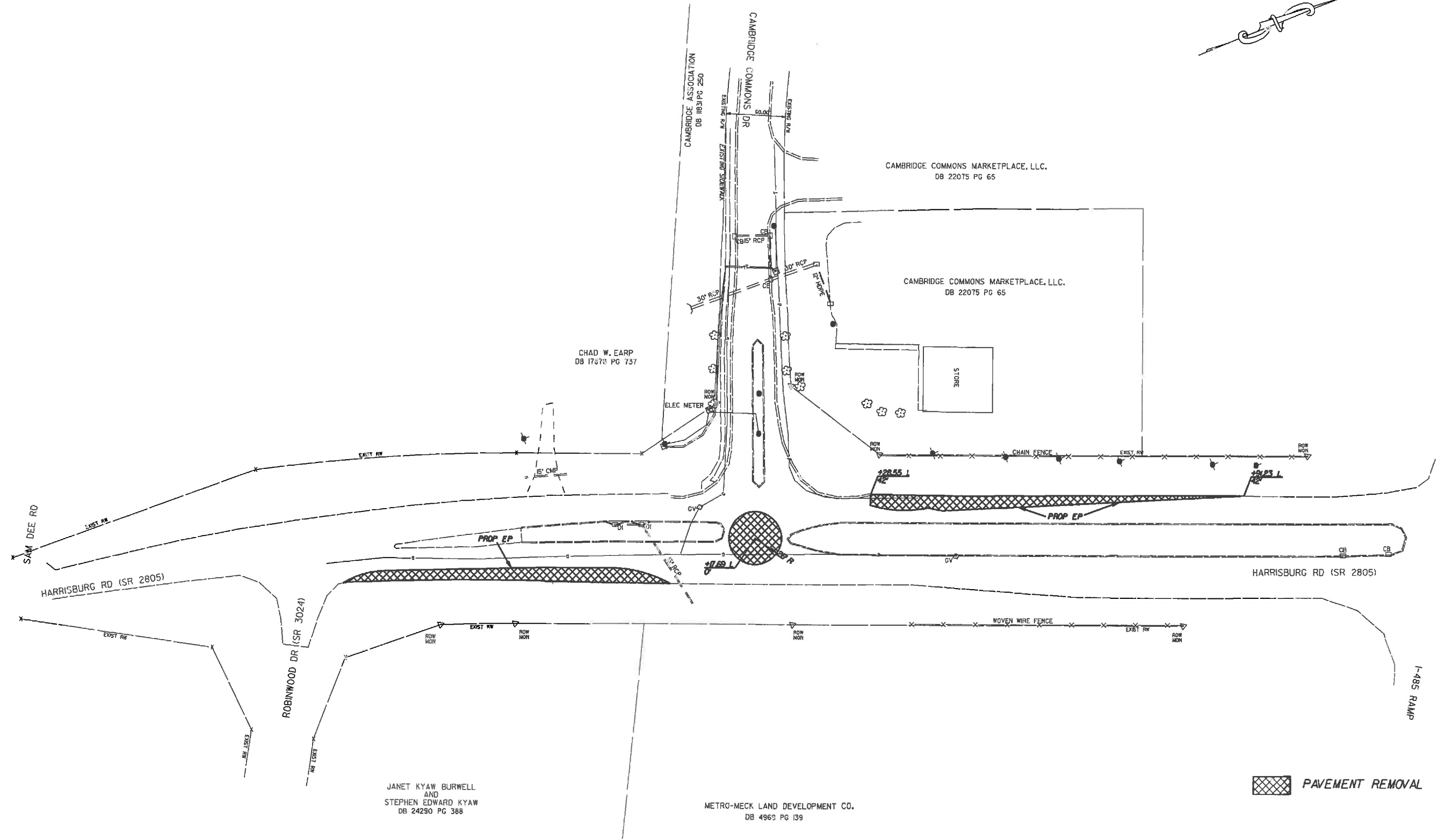
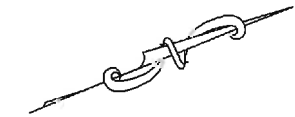


HARRISBURG RD. & CAMBRIDGE COMMONS ROUNDABOUT

SCALE	1"=50'		REVISIONS
DATE	7-20-11		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

PAVEMENT REMOVAL AREA

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	4397.3J	5	
F.A. PROJECT NO.			




 PAVEMENT REMOVAL

JANET KYAW BURWELL
AND
STEPHEN EDWARD KYAW
DB 24250 PG 388

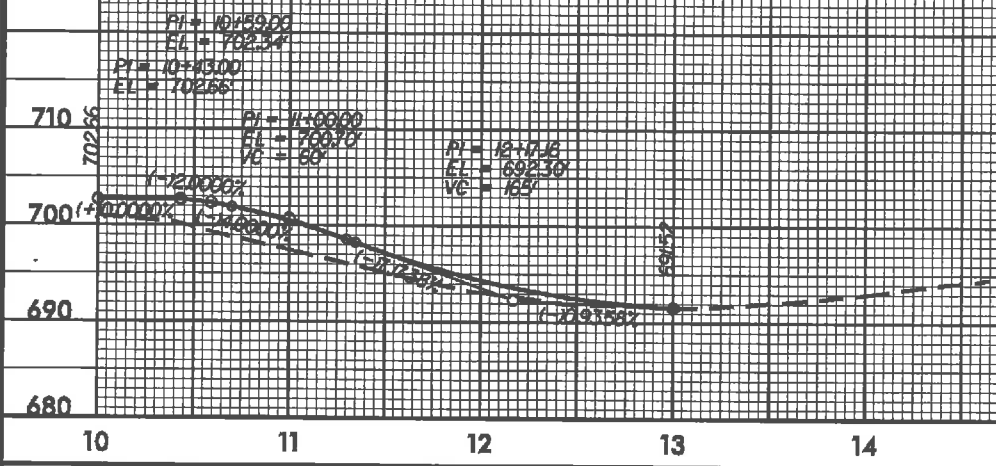
METRO-MECK LAND DEVELOPMENT CO.
DB 4969 PG 139

HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBOUT

SCALE	1"=50'		REVISIONS
DATE	12-20-12		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

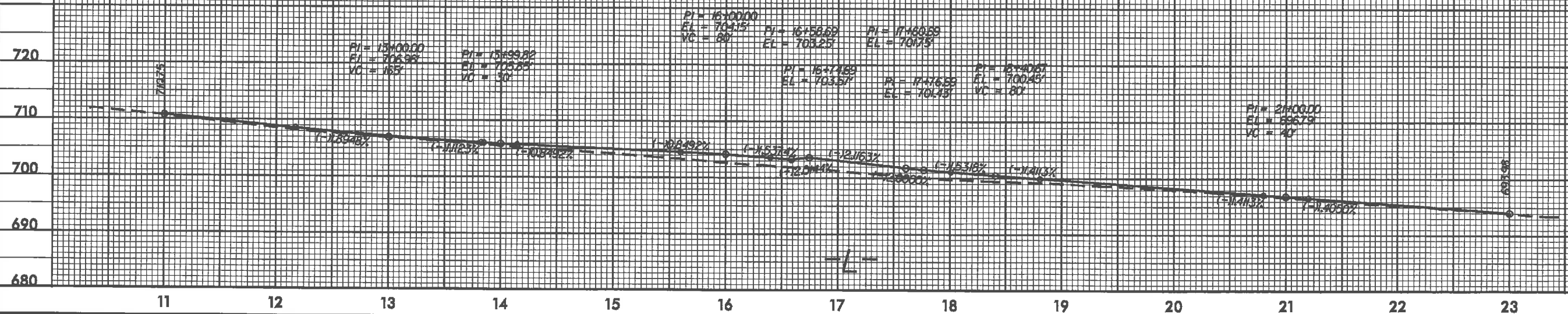
5/28/99

PROJECT REFERENCE NO. 43197.31	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-Y-

Q:\MAN-2017_09\04 25\harrisburg rd-roundabout\PROF\harrisburg.mc9_combined_profile_sheet.dgn

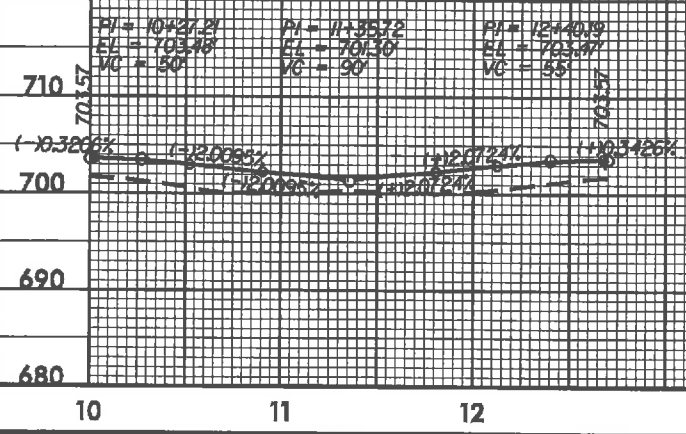


-L-

5/28/99

PROJECT REFERENCE NO. 43197.3J	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

C:\MAN-2013_04\04\53\000\003\Mech\lenburg rd-roundabout\PRDF\harrisburg.mc9_combined_profile_sheet.dgn



-INSIDE EP-

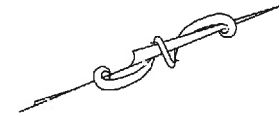
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. 43197.3J	SHEET NO. EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

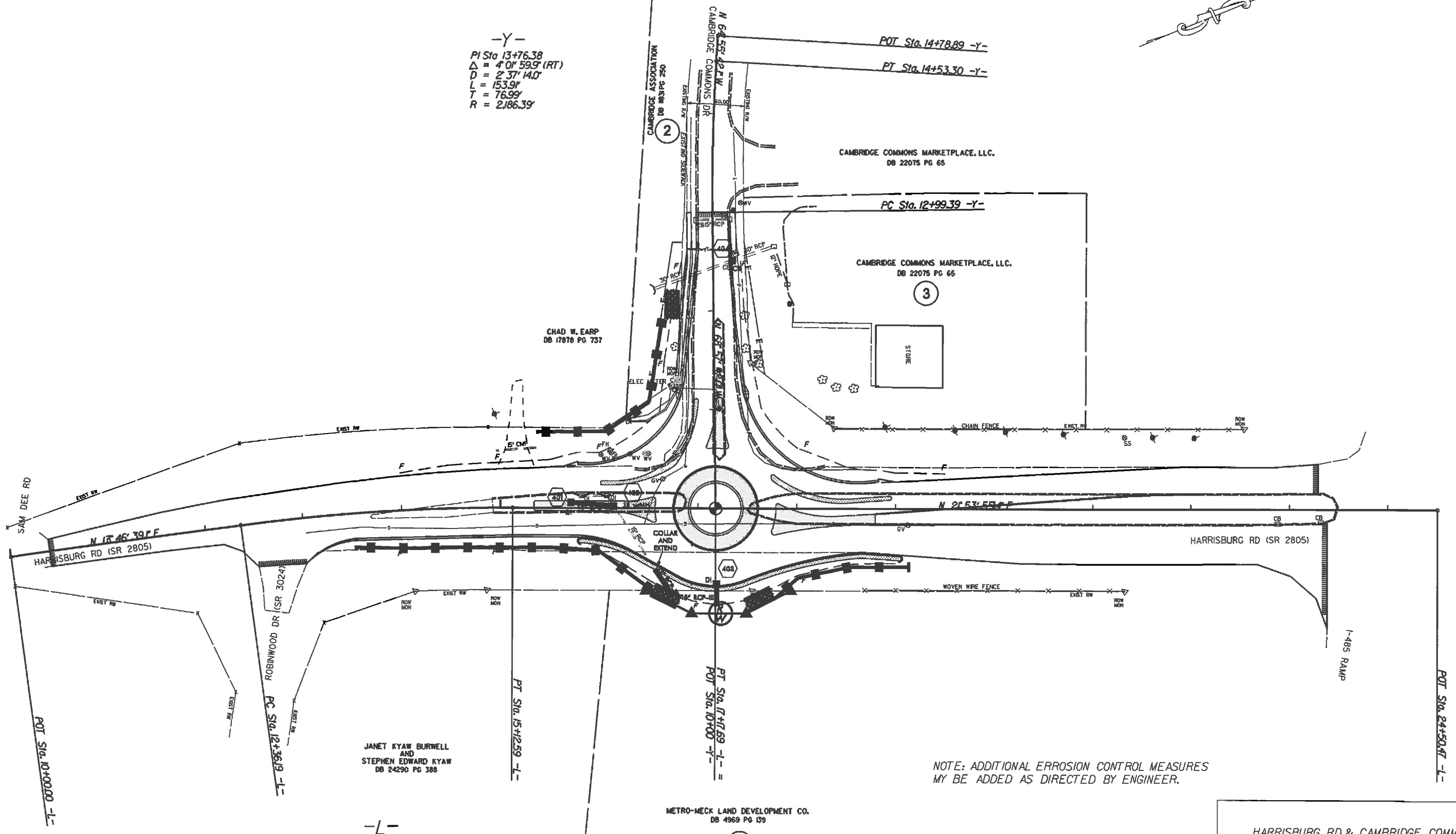
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3J	EC-2	
F.A. PROJECT NO.			



-Y-
 PI Sta 13+76.38
 $\Delta = 4' 01'' 59.9''$ (RT)
 $D = 2' 37'' 14.0''$
 $L = 153.9'$
 $T = 76.99'$
 $R = 2186.39'$

-L-
 PI Sta 13+74.62
 $\Delta = 8' 07'' 16.3''$ (RT)
 $D = 2' 56'' 17.7''$
 $L = 276.40'$
 $T = 138.43'$
 $R = 1950.00'$



NOTE: ADDITIONAL EROSION CONTROL MEASURES
 MAY BE ADDED AS DIRECTED BY ENGINEER.

HARRISBURG RD. & CAMBRIDGE COMMONS ROUNDABOUT			REVISIONS
SCALE	1"=50'		
DATE	7-20-11		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

PAVEMENT MARKING SCHEDULE

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3J1	PMP-1	
F.A. PROJECT NO.			

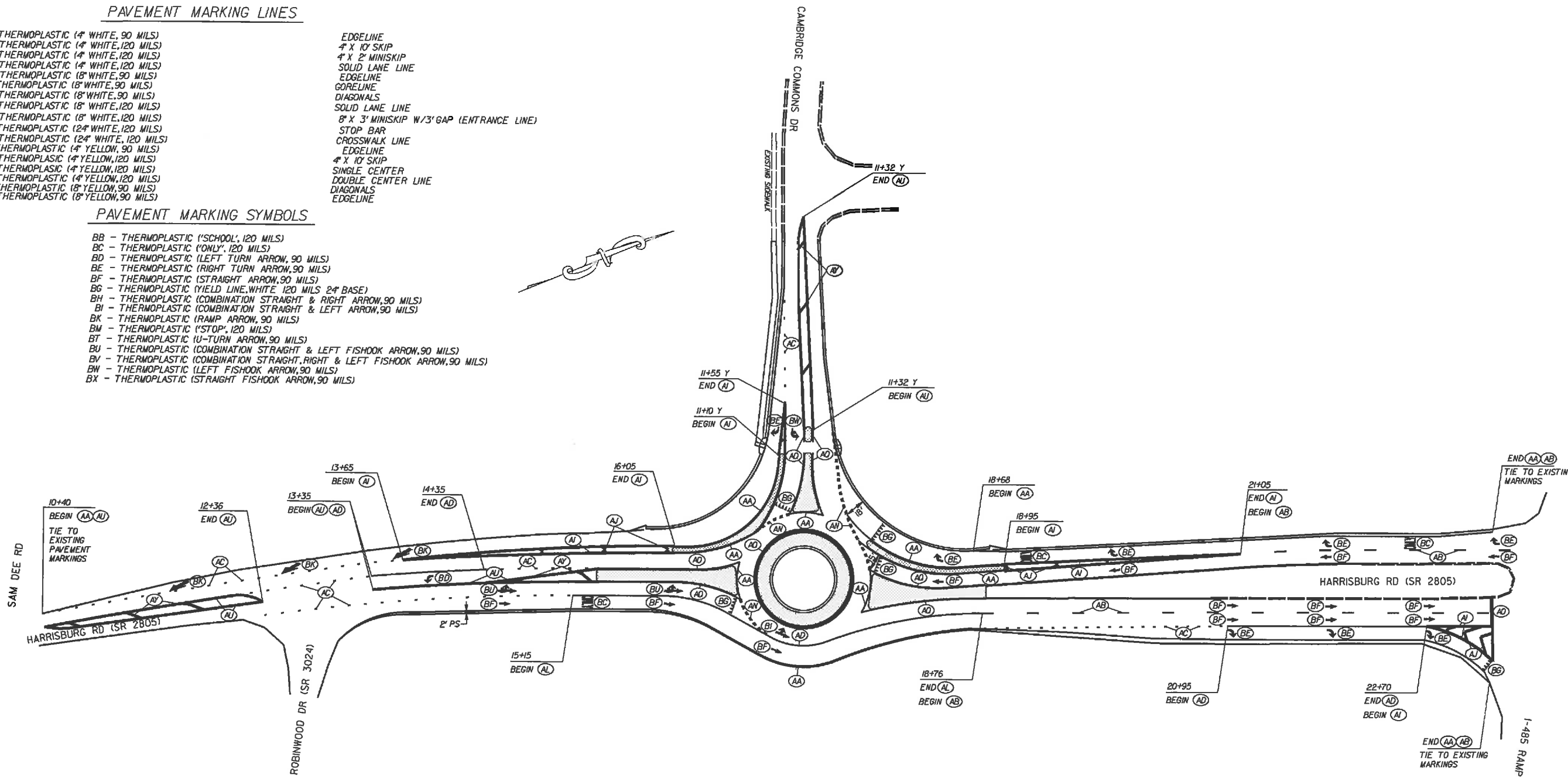
PAY ITEM DESCRIPTION

PAVEMENT MARKING LINES


- AA - THERMOPLASTIC (4" WHITE, 90 MILS) EDGELINE
- AB - THERMOPLASTIC (4" WHITE, 120 MILS) 4" X 10' SKIP
- AC - THERMOPLASTIC (4" WHITE, 120 MILS) 4" X 2' MINISKIP
- AD - THERMOPLASTIC (4" WHITE, 120 MILS) SOLID LANE LINE
- AE - THERMOPLASTIC (8" WHITE, 90 MILS) EDGELINE
- AF - THERMOPLASTIC (8" WHITE, 90 MILS) GORELINE
- AG - THERMOPLASTIC (8" WHITE, 90 MILS) DIAGONALS
- AH - THERMOPLASTIC (8" WHITE, 120 MILS) SOLID LANE LINE
- AI - THERMOPLASTIC (8" WHITE, 120 MILS) 8" X 3" MINISKIP W/3' GAP (ENTRANCE LINE)
- AJ - THERMOPLASTIC (24" WHITE, 120 MILS) STOP BAR
- AK - THERMOPLASTIC (12" WHITE, 120 MILS) CROSSWALK LINE
- AL - THERMOPLASTIC (4" YELLOW, 90 MILS) EDGELINE
- AM - THERMOPLASTIC (4" YELLOW, 120 MILS) 4" X 10' SKIP
- AN - THERMOPLASTIC (4" YELLOW, 120 MILS) SINGLE CENTER
- AO - THERMOPLASTIC (4" YELLOW, 120 MILS) DOUBLE CENTER LINE
- AP - THERMOPLASTIC (8" YELLOW, 90 MILS) DIAGONALS
- AQ - THERMOPLASTIC (8" YELLOW, 90 MILS) EDGELINE

PAVEMENT MARKING SYMBOLS

- BB - THERMOPLASTIC ("SCHOOL", 120 MILS)
- BC - THERMOPLASTIC ("ONLY", 120 MILS)
- BD - THERMOPLASTIC (LEFT TURN ARROW, 90 MILS)
- BE - THERMOPLASTIC (RIGHT TURN ARROW, 90 MILS)
- BF - THERMOPLASTIC (STRAIGHT ARROW, 90 MILS)
- BG - THERMOPLASTIC (YIELD LINE, WHITE 120 MILS 24" BASE)
- BH - THERMOPLASTIC (COMBINATION STRAIGHT & RIGHT ARROW, 90 MILS)
- BI - THERMOPLASTIC (COMBINATION STRAIGHT & LEFT ARROW, 90 MILS)
- BK - THERMOPLASTIC (RAMP ARROW, 90 MILS)
- BL - THERMOPLASTIC ("STOP", 120 MILS)
- BM - THERMOPLASTIC (U-TURN ARROW, 90 MILS)
- BN - THERMOPLASTIC (COMBINATION STRAIGHT & LEFT FISHOOK ARROW, 90 MILS)
- BO - THERMOPLASTIC (COMBINATION STRAIGHT, RIGHT & LEFT FISHOOK ARROW, 90 MILS)
- BP - THERMOPLASTIC (LEFT FISHOOK ARROW, 90 MILS)
- BQ - THERMOPLASTIC (STRAIGHT FISHOOK ARROW, 90 MILS)

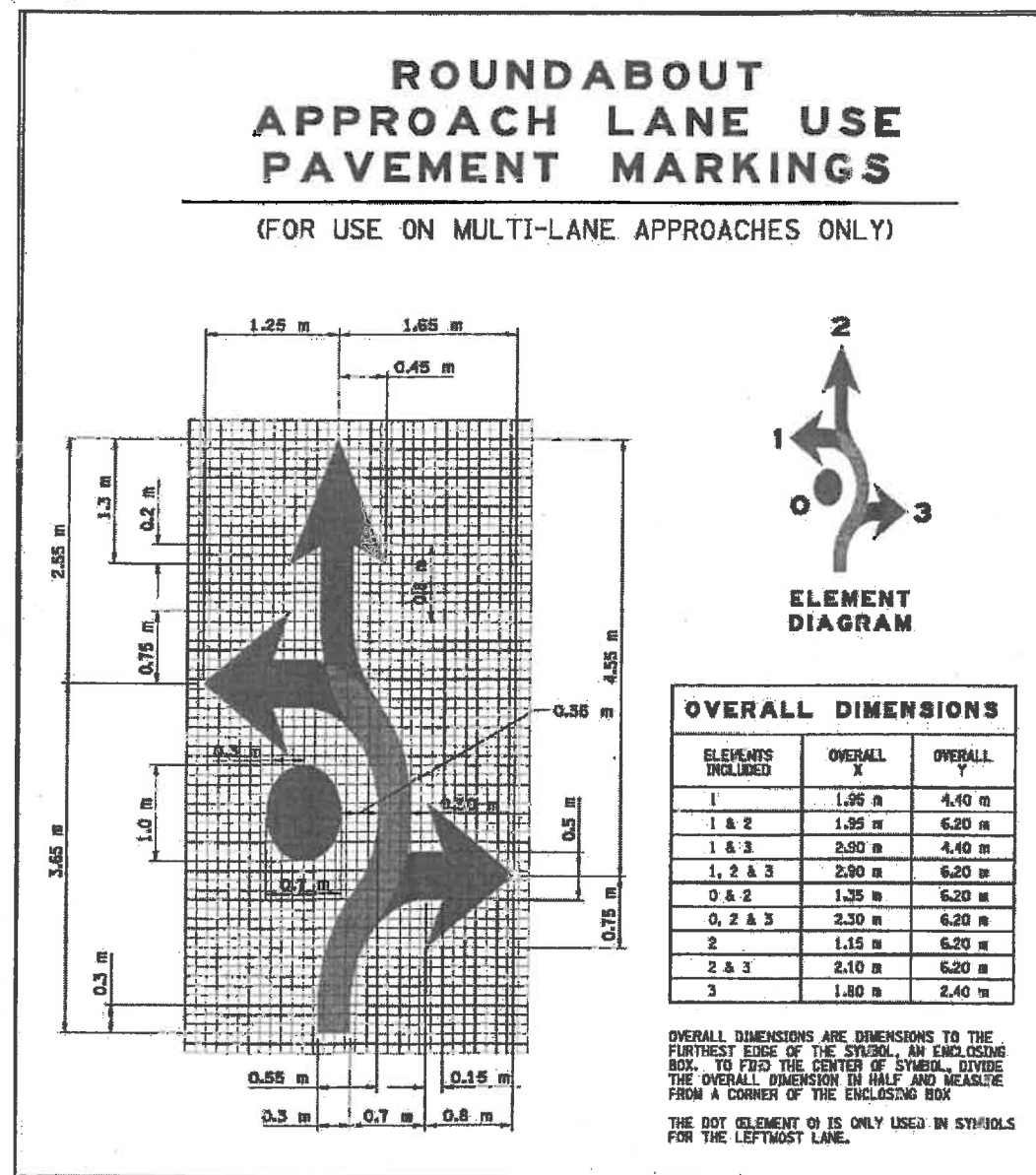


HARRISBURG RD. & CAMBRIDGE COMMONS ROUNDABOUT

SCALE	1"=50'		REVISIONS
DATE	12-02-12		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3J	PMP-2	
F.A. PROJECT NO.			

Figure 3: Fishhook Symbol Details



HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBABOUT

SCALE -NA-
DATE 12-05-12
DWG. BY TWB
DESIGN BY TWB
APPROVED RWB



REVISIONS	

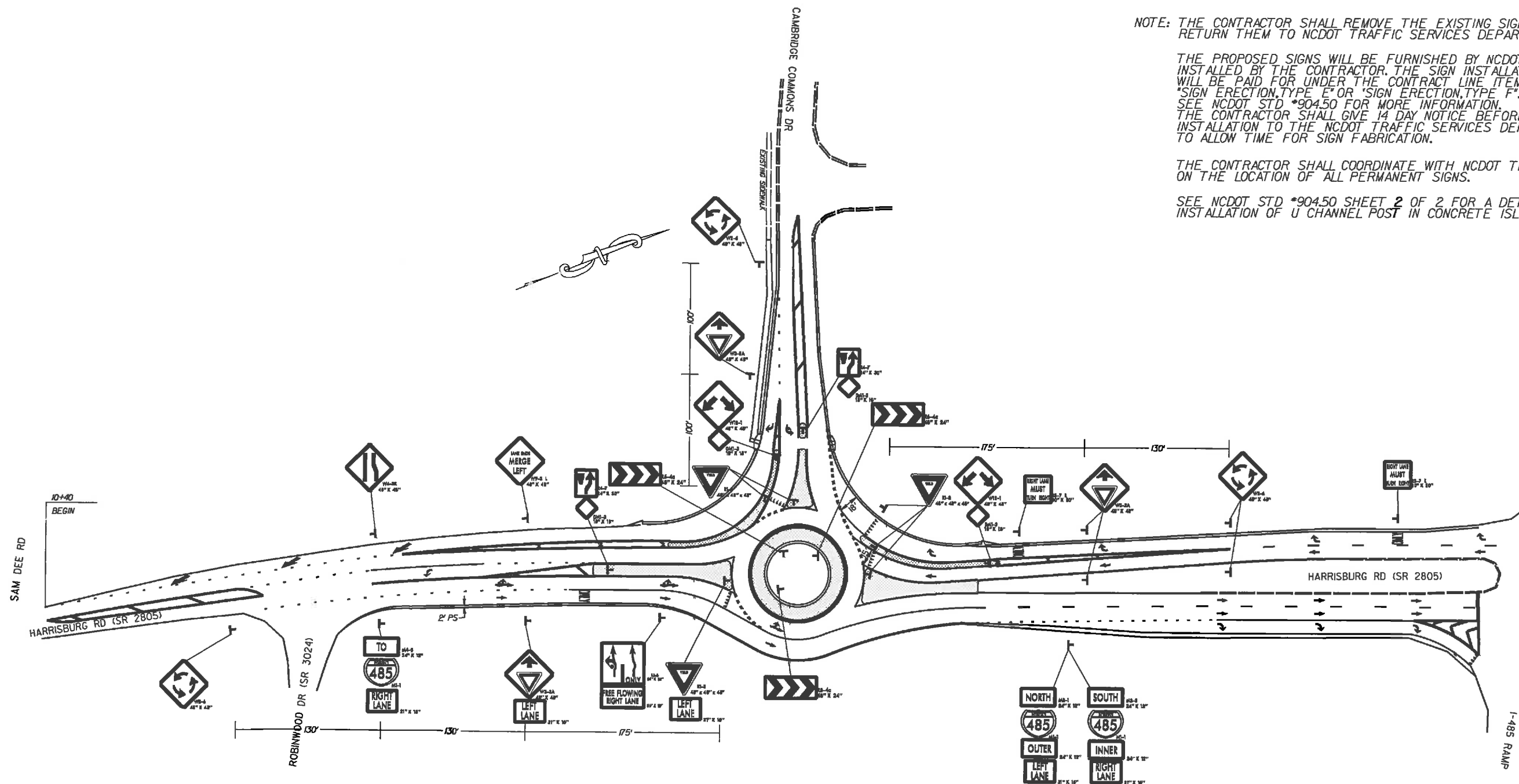
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	SIGN-1	
F.A. PROJECT NO.			

NOTE: THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNS AND RETURN THEM TO NCDOT TRAFFIC SERVICES DEPARTMENT.


THE PROPOSED SIGNS WILL BE FURNISHED BY NCDOT AND INSTALLED BY THE CONTRACTOR. THE SIGN INSTALLATION WILL BE PAID FOR UNDER THE CONTRACT LINE ITEM FOR "SIGN ERECTION, TYPE E" OR "SIGN ERECTION, TYPE F". SEE NCDOT STD *904.50 FOR MORE INFORMATION. THE CONTRACTOR SHALL GIVE 14 DAY NOTICE BEFORE SIGN INSTALLATION TO THE NCDOT TRAFFIC SERVICES DEPARTMENT TO ALLOW TIME FOR SIGN FABRICATION.

THE CONTRACTOR SHALL COORDINATE WITH NCDOT TRAFFIC SERVICES ON THE LOCATION OF ALL PERMANENT SIGNS.

SEE NCDOT STD *904.50 SHEET 2 OF 2 FOR A DETAIL OF INSTALLATION OF U CHANNEL POST IN CONCRETE ISLANDS.



HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBOUT

SCALE	1"=50'		REVISIONS
DATE	12-02-12		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.08	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1185.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- TEMP. SHORING (LOCATION PURPOSES ONLY)

- WORK AREA A
- WORK AREA B
- WORK AREA C
- USER DEFINED (IF NEEDED)

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

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

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN


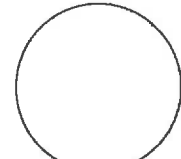
PAVEMENT MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

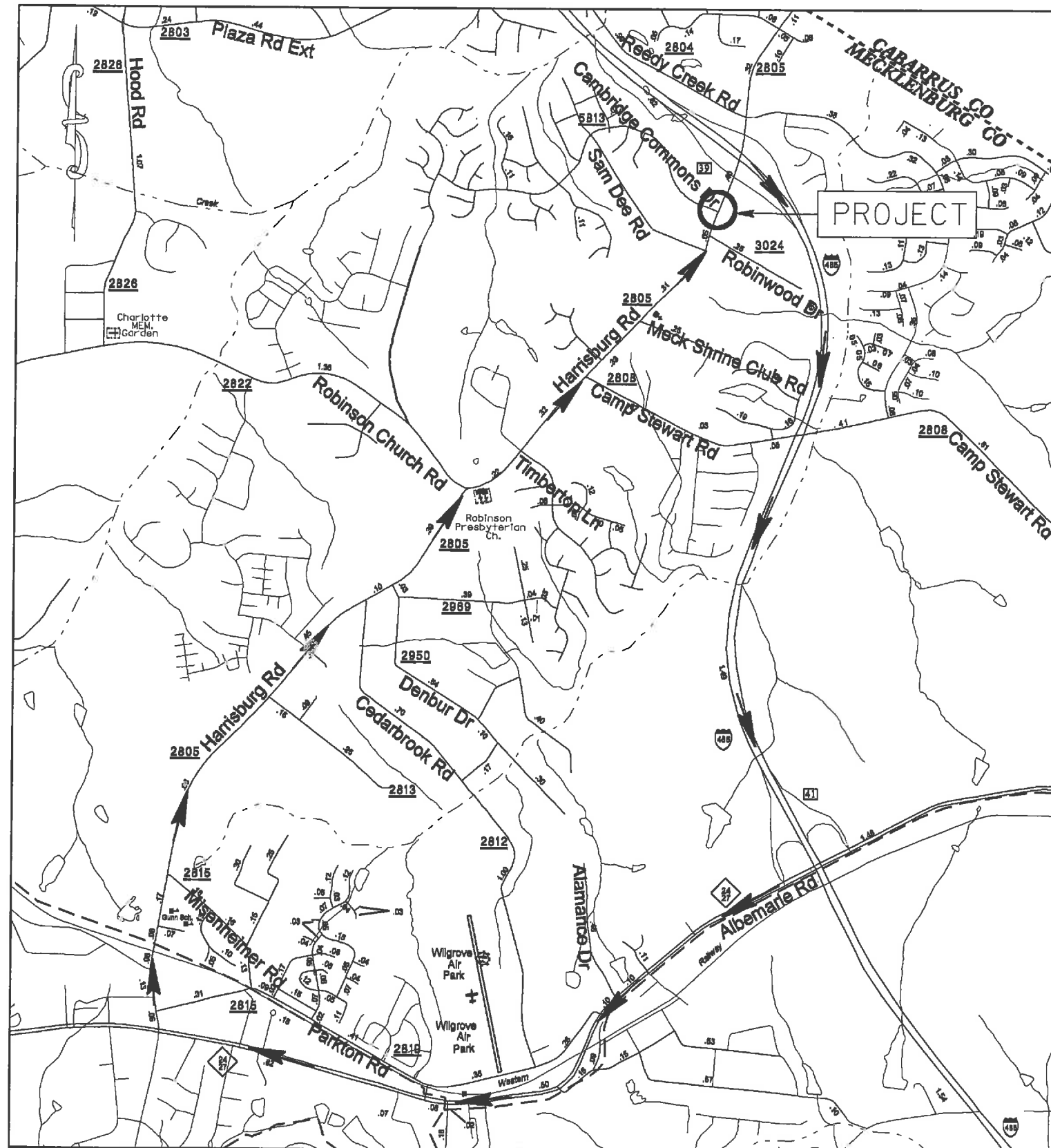
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APPROVED: _____	DATE: _____		<h3>ROADWAY STANDARD DRAWINGS & LEGEND</h3>
SEAL			


OFFSITE DETOUR

OFFSITE DETOUR TO BE INSTALLED AND MAINTAINED BY NCDOT.
THE CONTRACTOR IS RESPONSIBLE FOR THE BARRICADES ON THE PROJECT. SEE SHEET TCP-8

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3J	TCP-1A	
F.A. PROJECT NO.			



HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBOUT

SCALE	-NA-		REVISIONS
DATE	03-18-13		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	TCP-2	
F.A. PROJECT NO.			

PHASE I

NOTES: THE CONTRACTOR SHALL REMOVE A PORTION OF THE EXISTING MEDIAN ISLAND BETWEEN STA 11+20 & 12+00 -Y- (AREA 1).

THE EXISTING CURB & GUTTER BETWEEN STA 10+30 TO 11+90 RT -Y- (AREA 2) SHALL BE REMOVED.

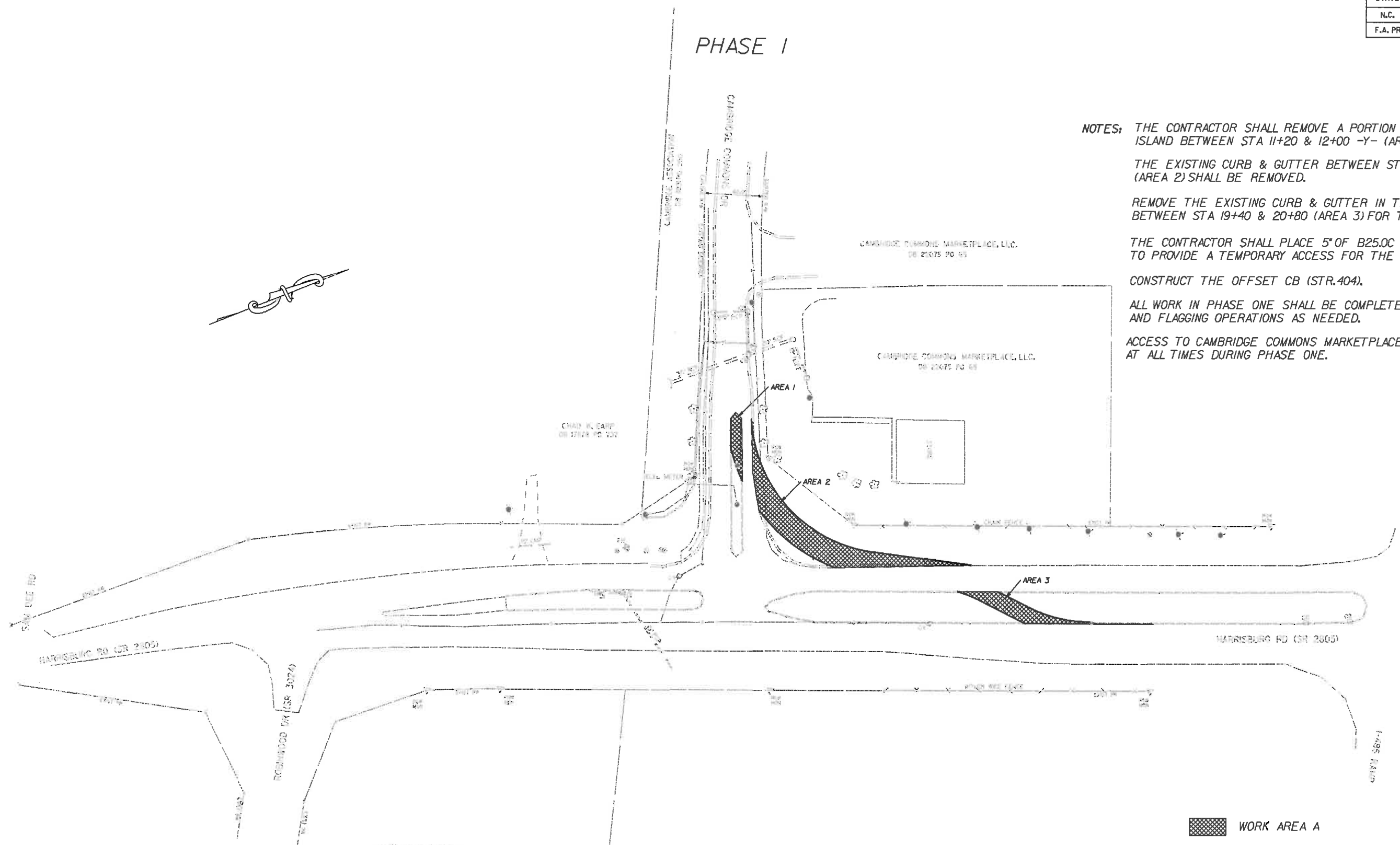
REMOVE THE EXISTING CURB & GUTTER IN THE MEDIAN OF -L- BETWEEN STA 19+40 & 20+80 (AREA 3) FOR THE TEMPORARY CROSSING.

THE CONTRACTOR SHALL PLACE 5" OF B25.0C IN AREAS 1, 2 & 3 TO PROVIDE A TEMPORARY ACCESS FOR THE SHOPPING CENTER.

CONSTRUCT THE OFFSET CB (STR.404).

ALL WORK IN PHASE ONE SHALL BE COMPLETED USING LANE CLOSURES AND FLAGGING OPERATIONS AS NEEDED.


ACCESS TO CAMBRIDGE COMMONS MARKETPLACE BE MAINTAINED AT ALL TIMES DURING PHASE ONE.



JANET FYAK GURSELL
AND
STEPHEN EDWARD FYAK
08 14100 PG 149

METRO-WICK LAND DEVELOPMENT CO.
08 14513 PG 152

WORK AREA A

HARRISBURG RD. & CAMBRIDGE COMMONS ROUNDBOUT								
SCALE	1"=50'							
DATE	03-18-13							
DWG. BY	TWB							
DESIGN BY	TWB							
APPROVED	RWB	<table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	REVISIONS					
REVISIONS								

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	TCP-3	
F.A. PROJECT NO.			

PHASE 2

NOTES: THE CONTRACTOR SHALL CONTACT THE NCDOT TRAFFIC SERVICES DEPT. AND HAVE THE OFFSITE DETOUR AND NECESSARY CHANGEABLE MESSAGE SIGNS INSTALLED.

THE CONTRACTOR SHALL UNCOVER THE DETOUR SIGNS INSTALLED BY THE NCDOT.

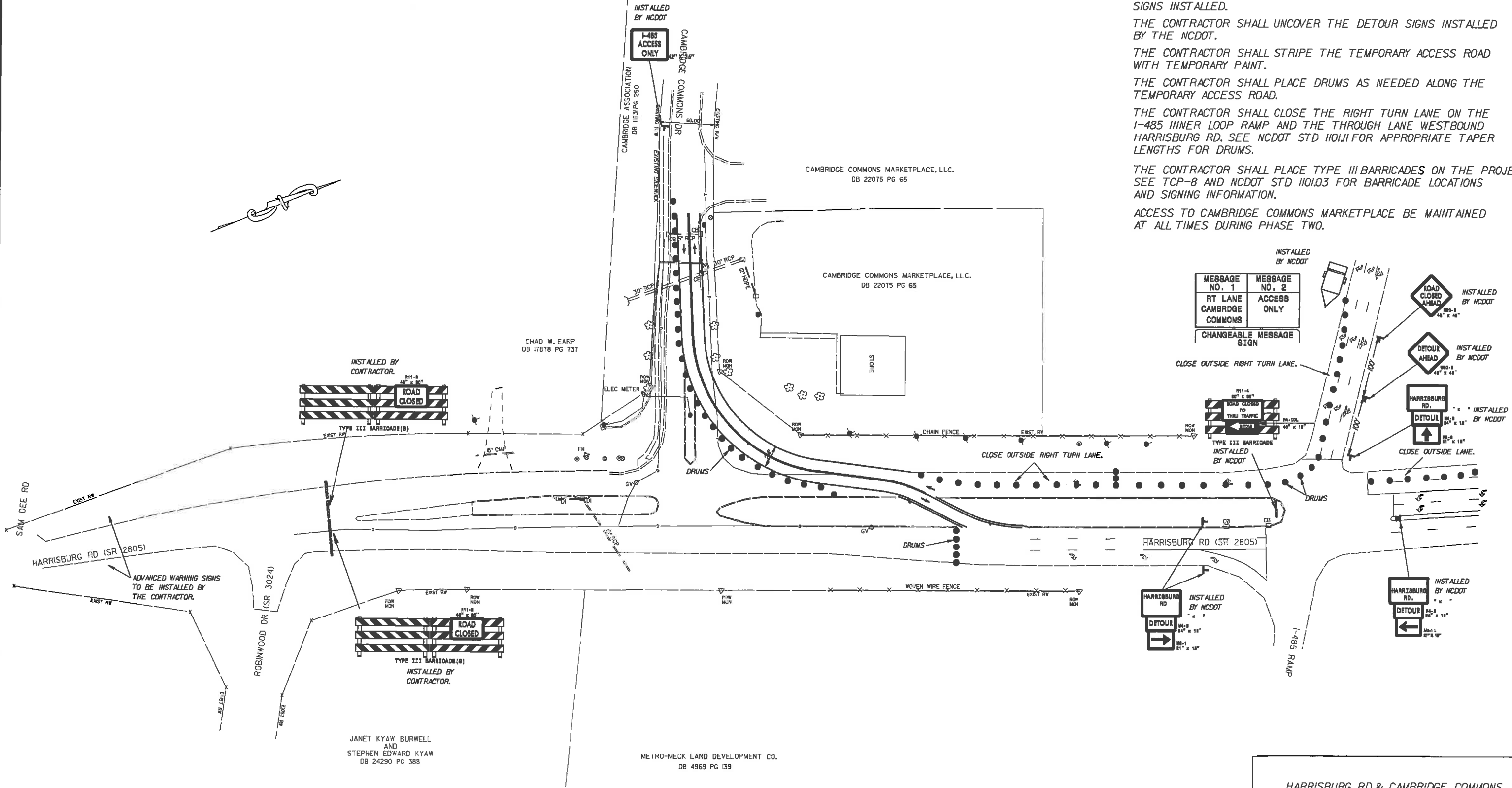
THE CONTRACTOR SHALL STRIPE THE TEMPORARY ACCESS ROAD WITH TEMPORARY PAINT.

THE CONTRACTOR SHALL PLACE DRUMS AS NEEDED ALONG THE TEMPORARY ACCESS ROAD.

THE CONTRACTOR SHALL CLOSE THE RIGHT TURN LANE ON THE I-485 INNER LOOP RAMP AND THE THROUGH LANE WESTBOUND HARRISBURG RD. SEE NCDOT STD 1101.11 FOR APPROPRIATE TAPER LENGTHS FOR DRUMS.

THE CONTRACTOR SHALL PLACE TYPE III BARRICADES ON THE PROJECT. SEE TCP-8 AND NCDOT STD 1101.03 FOR BARRICADE LOCATIONS AND SIGNING INFORMATION.

ACCESS TO CAMBRIDGE COMMONS MARKETPLACE BE MAINTAINED AT ALL TIMES DURING PHASE TWO.

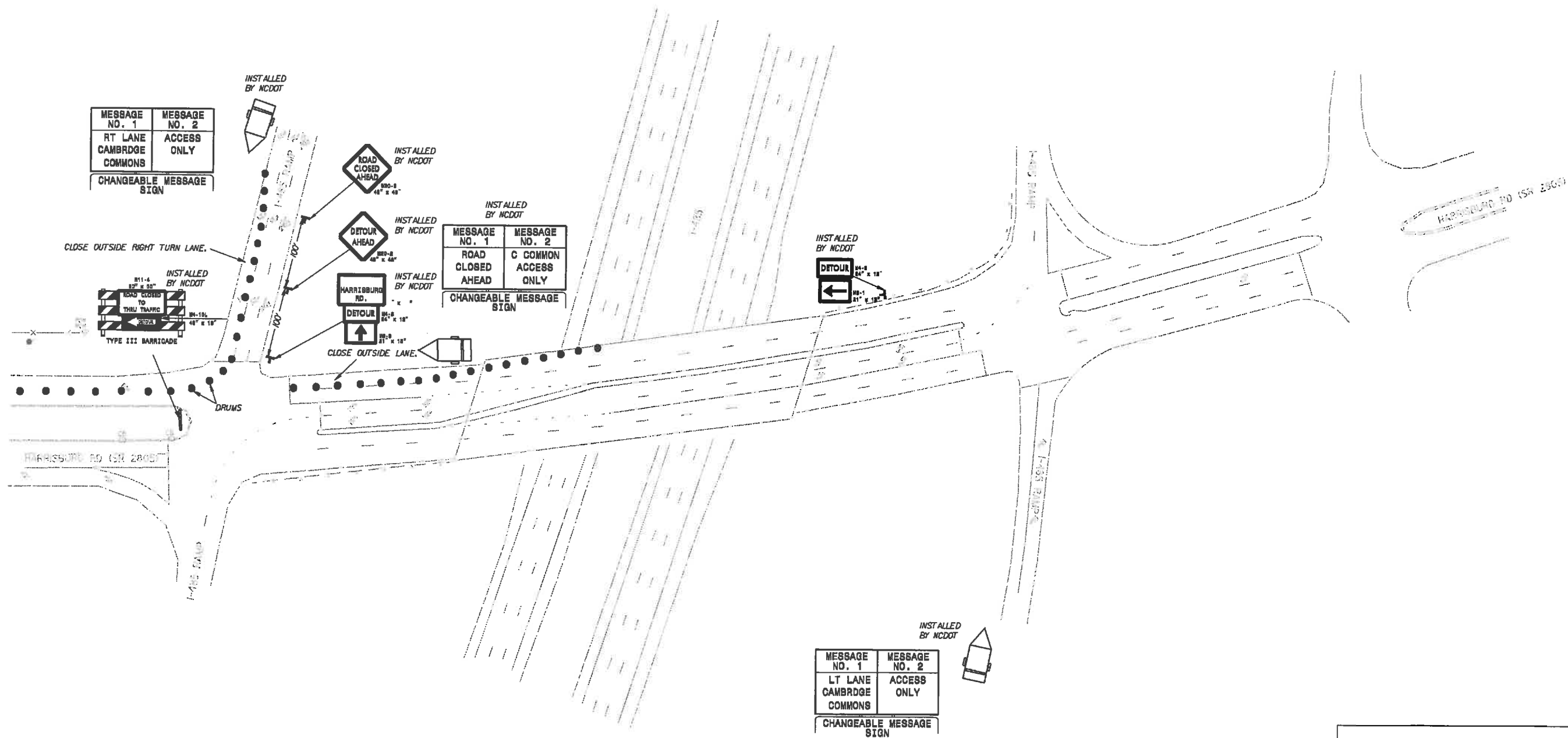
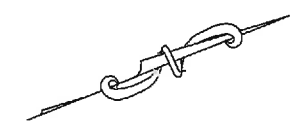


HARRISBURG RD. & CAMBRIDGE COMMONS ROUNDABOUT

SCALE	1"=50'		REVISIONS
DATE	12-02-12		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	TCP-3A	
F.A. PROJECT NO.			

PHASE 2



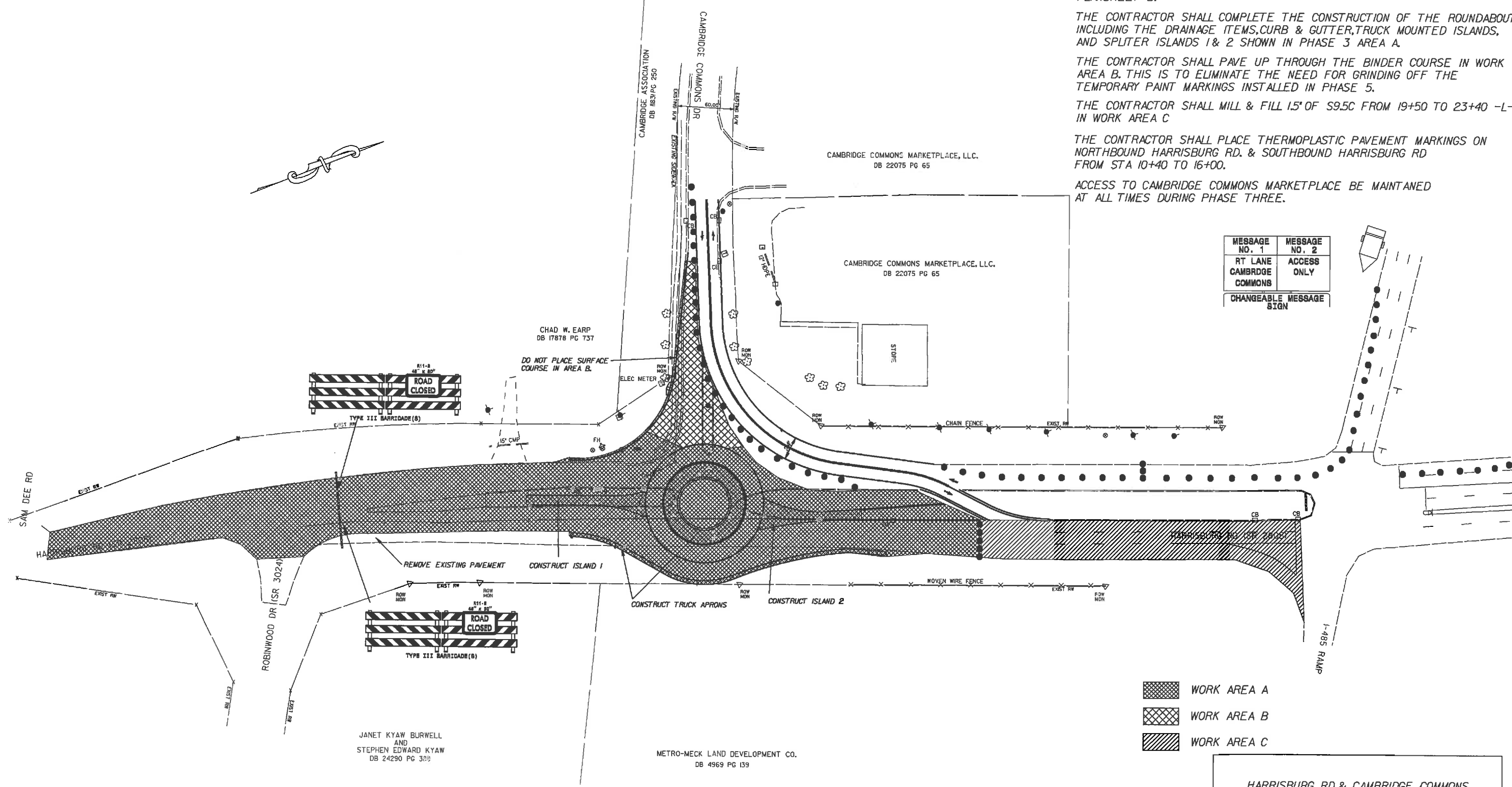
HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBOUT

SCALE	1"=50'		REVISIONS
DATE	12-02-12		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		




STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	TCP-4	
F.A. PROJECT NO.			

PHASE 3


NOTES: THE CONTRACTOR SHALL INSTALL NECESSARY EROSION CONTROL DEVICES.
 THE CONTRACTOR SHALL REMOVE THE EXISTING PAVEMENT AS SHOWN ON PLANSHEET 5.
 THE CONTRACTOR SHALL COMPLETE THE CONSTRUCTION OF THE ROUNDABOUT INCLUDING THE DRAINAGE ITEMS, CURB & GUTTER, TRUCK MOUNTED ISLANDS, AND SPLITTER ISLANDS 1 & 2 SHOWN IN PHASE 3 AREA A.
 THE CONTRACTOR SHALL PAVE UP THROUGH THE BINDER COURSE IN WORK AREA B. THIS IS TO ELIMINATE THE NEED FOR GRINDING OFF THE TEMPORARY PAINT MARKINGS INSTALLED IN PHASE 5.
 THE CONTRACTOR SHALL MILL & FILL 1.5' OF S9.5C FROM 19+50 TO 23+40 -L- IN WORK AREA C
 THE CONTRACTOR SHALL PLACE THERMOPLASTIC PAVEMENT MARKINGS ON NORTHBOUND HARRISBURG RD. & SOUTHBOUND HARRISBURG RD FROM STA 10+40 TO 16+00.
 ACCESS TO CAMBRIDGE COMMONS MARKETPLACE BE MAINTAINED AT ALL TIMES DURING PHASE THREE.



MESSAGE NO. 1	MESSAGE NO. 2
RT LANE CAMBRIDGE COMMONS	ACCESS ONLY
CHANGEABLE MESSAGE SIGN	

-  WORK AREA A
-  WORK AREA B
-  WORK AREA C

HARRISBURG RD. & CAMBRIDGE COMMONS ROUNDABOUT

SCALE	1"=50'		REVISIONS
DATE	12-02-12		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3J	TCP-5	
F.A. PROJECT NO.			

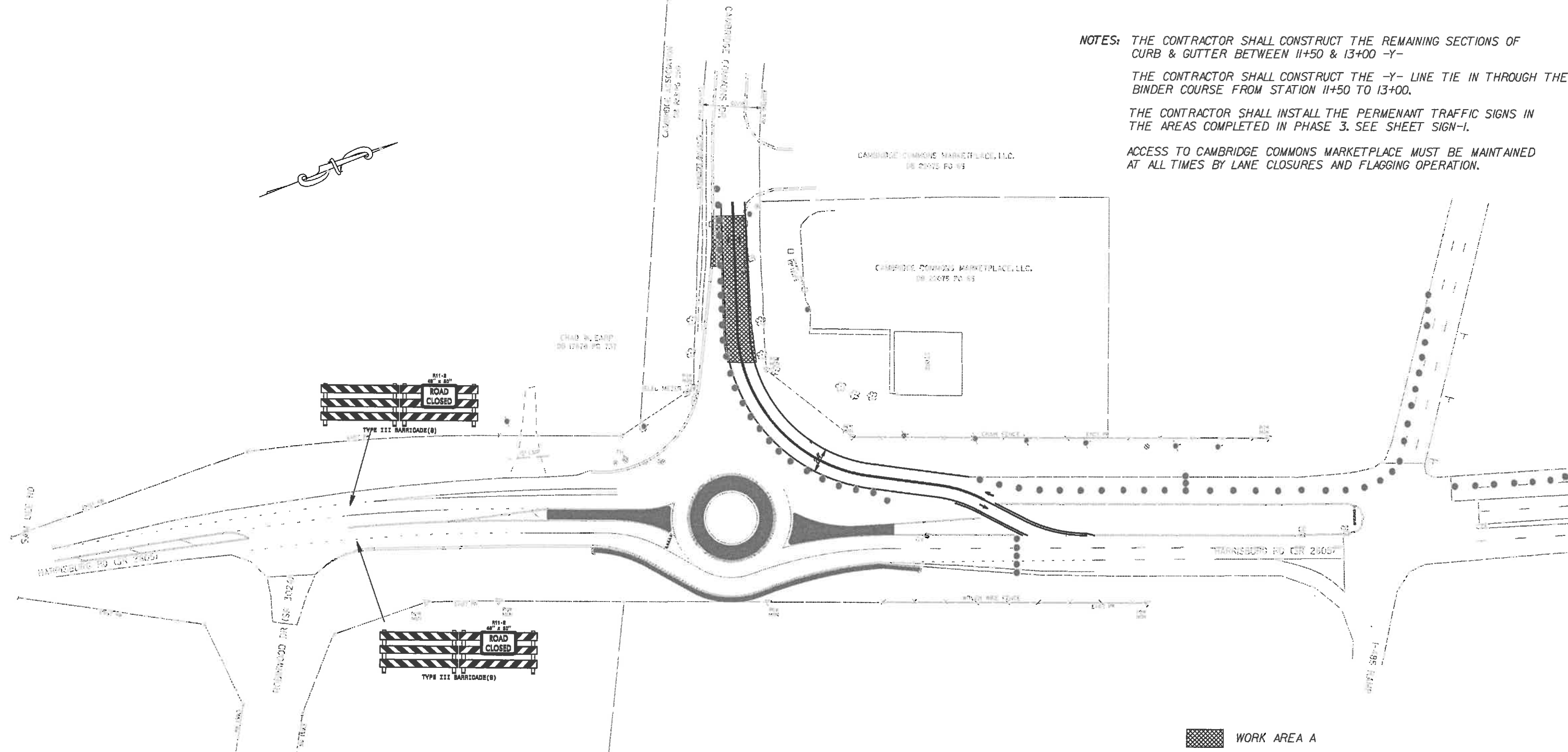
PHASE 4

NOTES: THE CONTRACTOR SHALL CONSTRUCT THE REMAINING SECTIONS OF CURB & GUTTER BETWEEN 11+50 & 13+00 -Y-

THE CONTRACTOR SHALL CONSTRUCT THE -Y- LINE TIE IN THROUGH THE BINDER COURSE FROM STATION 11+50 TO 13+00.

THE CONTRACTOR SHALL INSTALL THE PERMANENT TRAFFIC SIGNS IN THE AREAS COMPLETED IN PHASE 3. SEE SHEET SIGN-1.

ACCESS TO CAMBRIDGE COMMONS MARKETPLACE MUST BE MAINTAINED AT ALL TIMES BY LANE CLOSURES AND FLAGGING OPERATION.



WORK AREA A

JANET E. YAW BURWELL
AND
STEPHEN EDWARD YAW
DB 24137 PG 144

METRO-NECK LAND DEVELOPMENT CO.
DB 4962 PG 124

**HARRISBURG RD. & CAMBRIDGE COMMONS
ROUNDBOUT**

SCALE	1"=50'		REVISIONS
DATE	12-02-12		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWE		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	TCP-6	
F.A. PROJECT NO.			

PHASE 5

NOTES:

THE CONTRACTOR SHALL REMOVE THE DRUMS AT STA 20+00 -L- AND THE BARRICADES AT 13+50 -L- OPENING THE NORTHBOUND SECTION OF HARRISBURG RD. THE MESSAGES ON THE CHANGABLE MESSAGE SIGNS SHALL BE CHANGED. SEE TCP-6 AND TCP-6A FOR CORRECT MESSAGES. CONTACT THE NCDOT TRAFFIC SERVICES DEPT. 48 HRS PRIOR TO TRAFFIC SHIFT.

THE CONTRACTOR SHALL CLOSE THE DUAL RIGHT TURN LANES ON THE OFF RAMP FROM I-485 INNER LOOP AND THE TWO THRU LANES ON SOUTHBOUND HARRISBURG RD. SEE NCDOT STD 110/J1 FOR APPROPRIATE TAPER LENGTH FOR DRUMS. RELOCATE THE CMS AT THE EXISTING BRIDGE TO THE NEW LOCATION. ADJUST THE MESSAGE AS SHOWN.

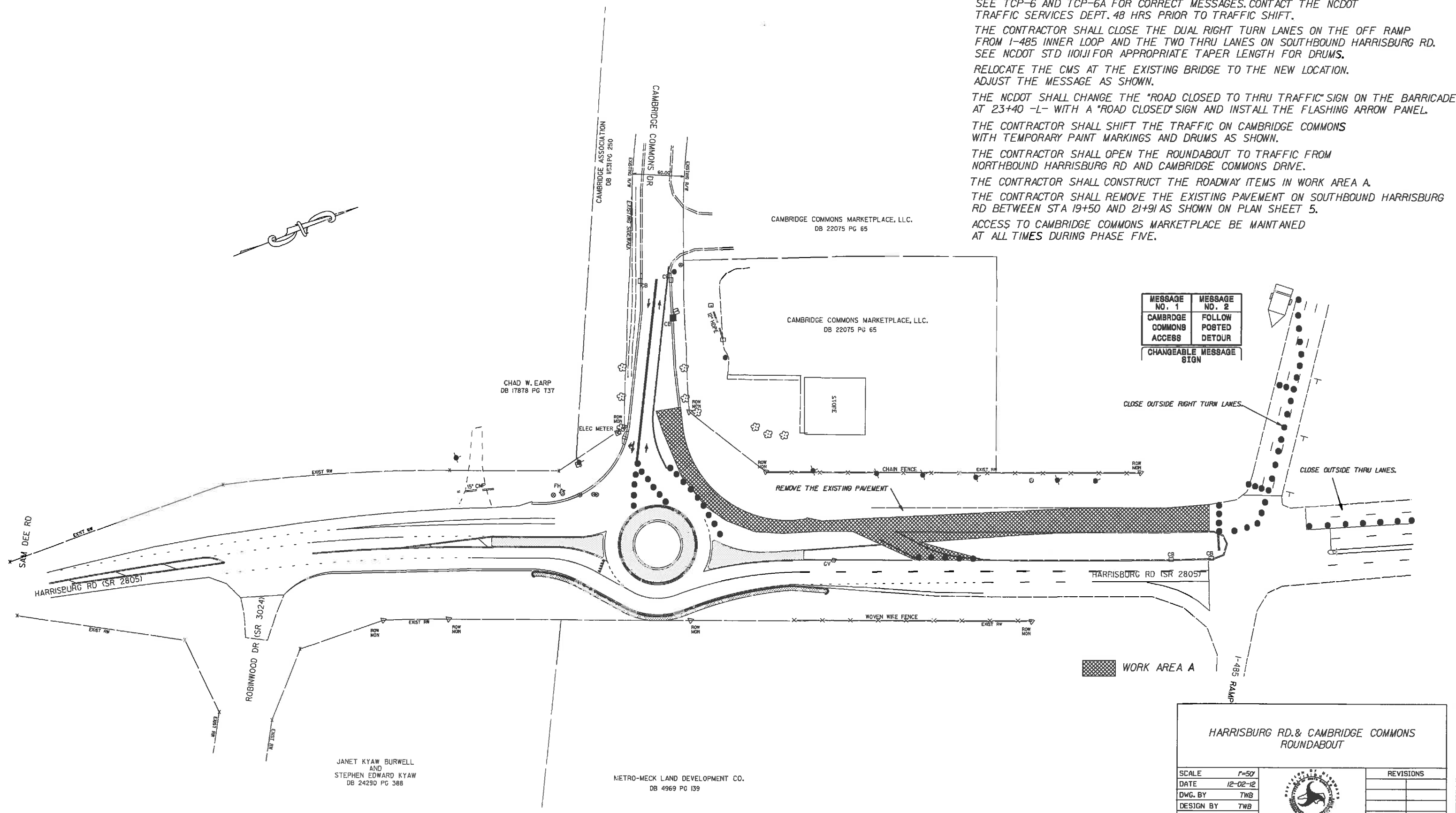
THE NCDOT SHALL CHANGE THE "ROAD CLOSED TO THRU TRAFFIC" SIGN ON THE BARRICADE AT 23+40 -L- WITH A "ROAD CLOSED" SIGN AND INSTALL THE FLASHING ARROW PANEL.

THE CONTRACTOR SHALL SHIFT THE TRAFFIC ON CAMBRIDGE COMMONS WITH TEMPORARY PAINT MARKINGS AND DRUMS AS SHOWN.

THE CONTRACTOR SHALL OPEN THE ROUNDABOUT TO TRAFFIC FROM NORTHBOUND HARRISBURG RD AND CAMBRIDGE COMMONS DRIVE.

THE CONTRACTOR SHALL CONSTRUCT THE ROADWAY ITEMS IN WORK AREA A. THE CONTRACTOR SHALL REMOVE THE EXISTING PAVEMENT ON SOUTHBOUND HARRISBURG RD BETWEEN STA 19+50 AND 21+91 AS SHOWN ON PLAN SHEET 5.

ACCESS TO CAMBRIDGE COMMONS MARKETPLACE BE MAINTAINED AT ALL TIMES DURING PHASE FIVE.



MESSAGE NO. 1	MESSAGE NO. 2
CAMBRIDGE COMMONS ACCESS	FOLLOW POSTED DETOUR
CHANGEABLE MESSAGE SIGN	

HARRISBURG RD. & CAMBRIDGE COMMONS ROUNDABOUT

SCALE	1"=50'		<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							
REVISIONS											
DATE	12-02-12										
DWG. BY	TWB										
DESIGN BY	TWB										
APPROVED	RWB										

JANET KYAW BURWELL
AND
STEPHEN EDWARD KYAW
DB 24290 PG 388

METRO-MECK LAND DEVELOPMENT CO.
DB 4969 PG 139

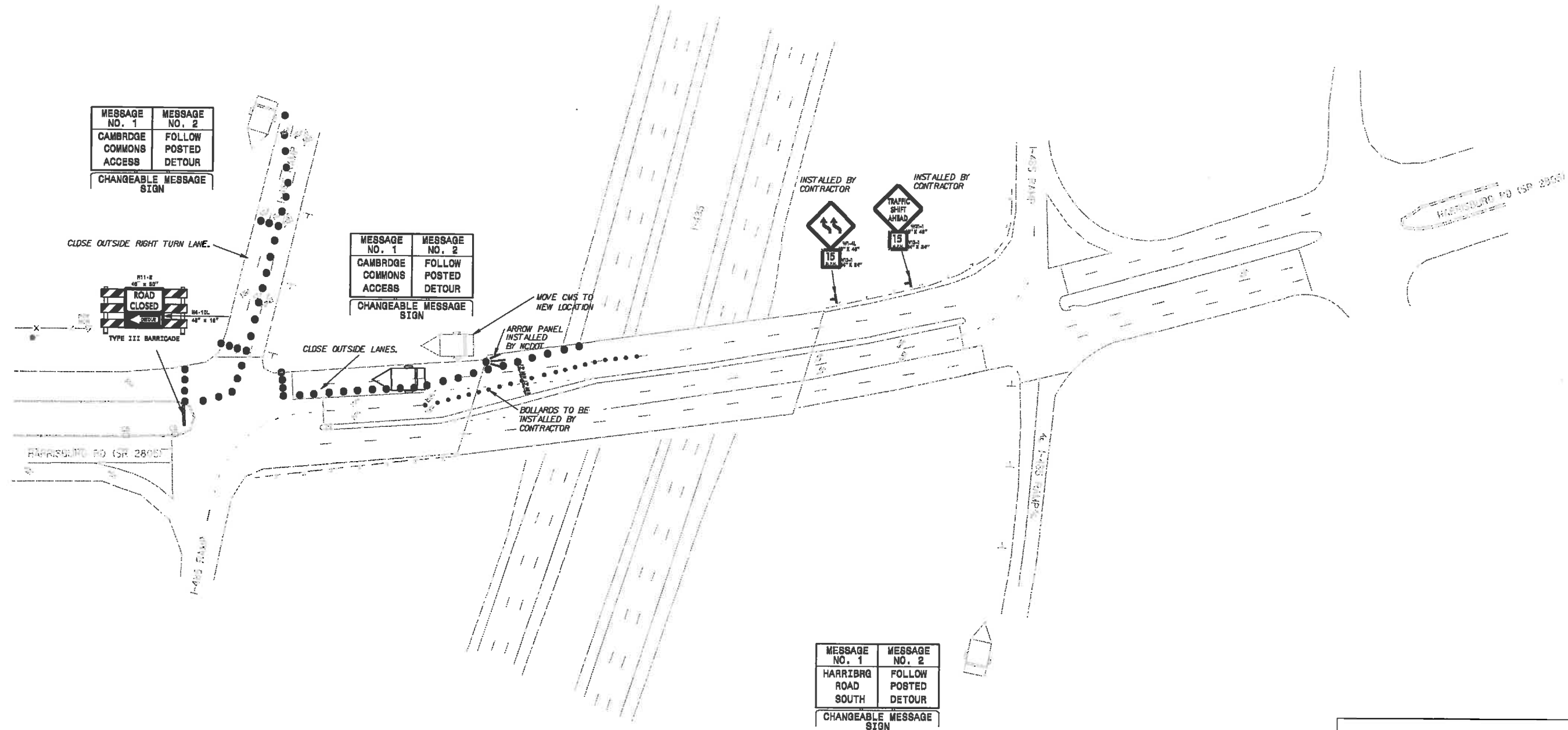
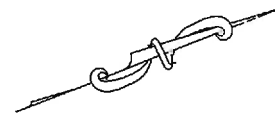
CHAD W. EARP
DB 17878 PG 137

CAMBRIDGE COMMONS MARKETPLACE, LLC.
DB 22075 PG 65

CAMBRIDGE COMMONS MARKETPLACE, LLC.
DB 22075 PG 65

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.1	TCP-6A	
F.A. PROJECT NO.			

PHASE 5



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43197.3.I	TCP-7	
F.A. PROJECT NO.			

PHASE 6

NOTES: THE CONTRACTOR SHALL PLACE THE ASPHALT SURFACE COURSE ON CAMBRIDGE COMMONS DR.

THE CONTRACTOR SHALL SHIFT TRAFFIC TO THE OUTSIDE LANES OF CAMBRIDGE COMMONS DR AND CONSTRUCT ISLANDS 3 & 4. ONCE ISLANDS 3 & 4 ARE COMPLETED SHIFT TRAFFIC TO CONSTRUCT ISLAND 5.

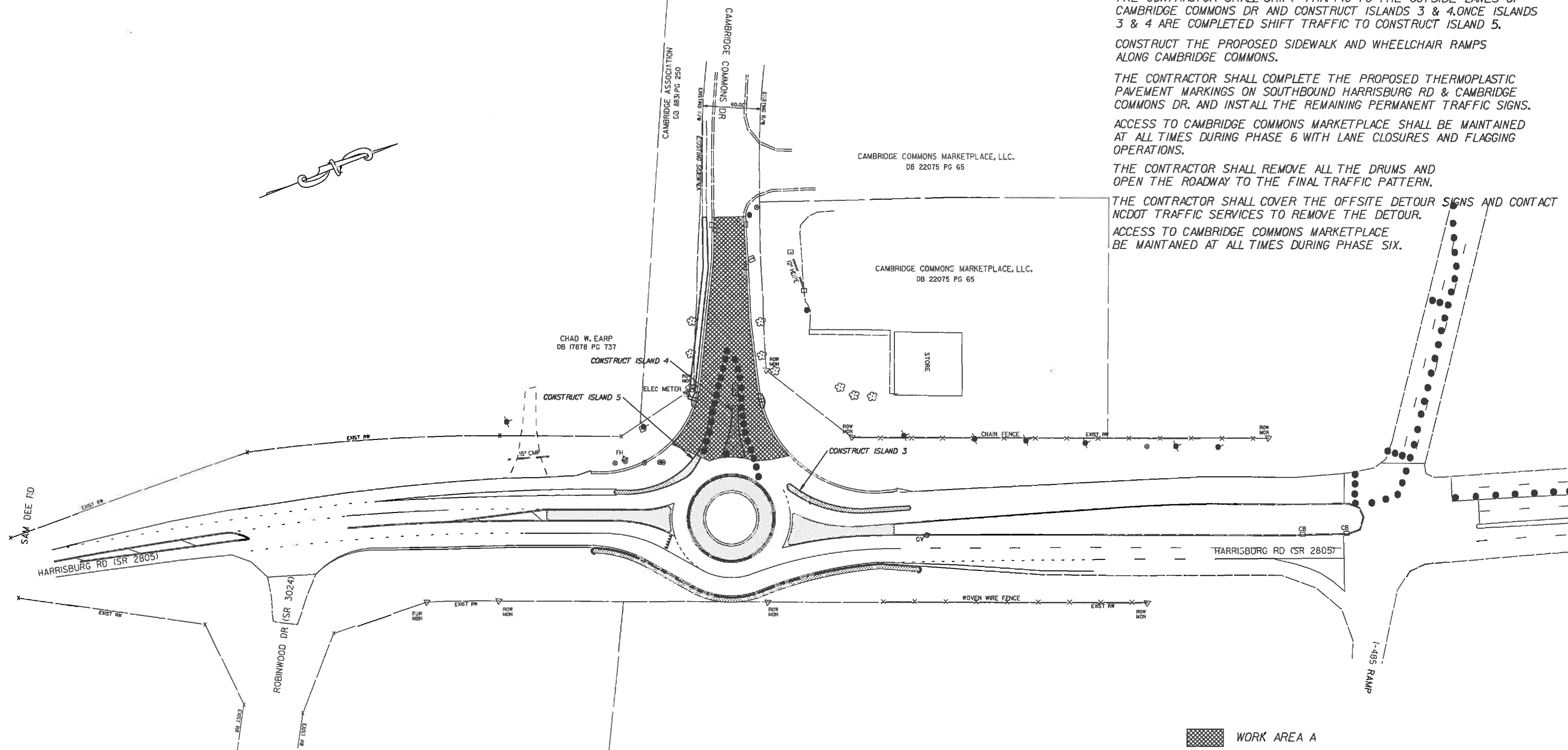
CONSTRUCT THE PROPOSED SIDEWALK AND WHEELCHAIR RAMPS ALONG CAMBRIDGE COMMONS.

THE CONTRACTOR SHALL COMPLETE THE PROPOSED THERMOPLASTIC PAVEMENT MARKINGS ON SOUTHBOUND HARRISBURG RD & CAMBRIDGE COMMONS DR. AND INSTALL THE REMAINING PERMANENT TRAFFIC SIGNS.

ACCESS TO CAMBRIDGE COMMONS MARKETPLACE SHALL BE MAINTAINED AT ALL TIMES DURING PHASE 6 WITH LANE CLOSURES AND FLAGGING OPERATIONS.

THE CONTRACTOR SHALL REMOVE ALL THE DRUMS AND OPEN THE ROADWAY TO THE FINAL TRAFFIC PATTERN.

THE CONTRACTOR SHALL COVER THE OFFSITE DETOUR SIGNS AND CONTACT NCDOT TRAFFIC SERVICES TO REMOVE THE DETOUR. ACCESS TO CAMBRIDGE COMMONS MARKETPLACE BE MAINTAINED AT ALL TIMES DURING PHASE SIX.



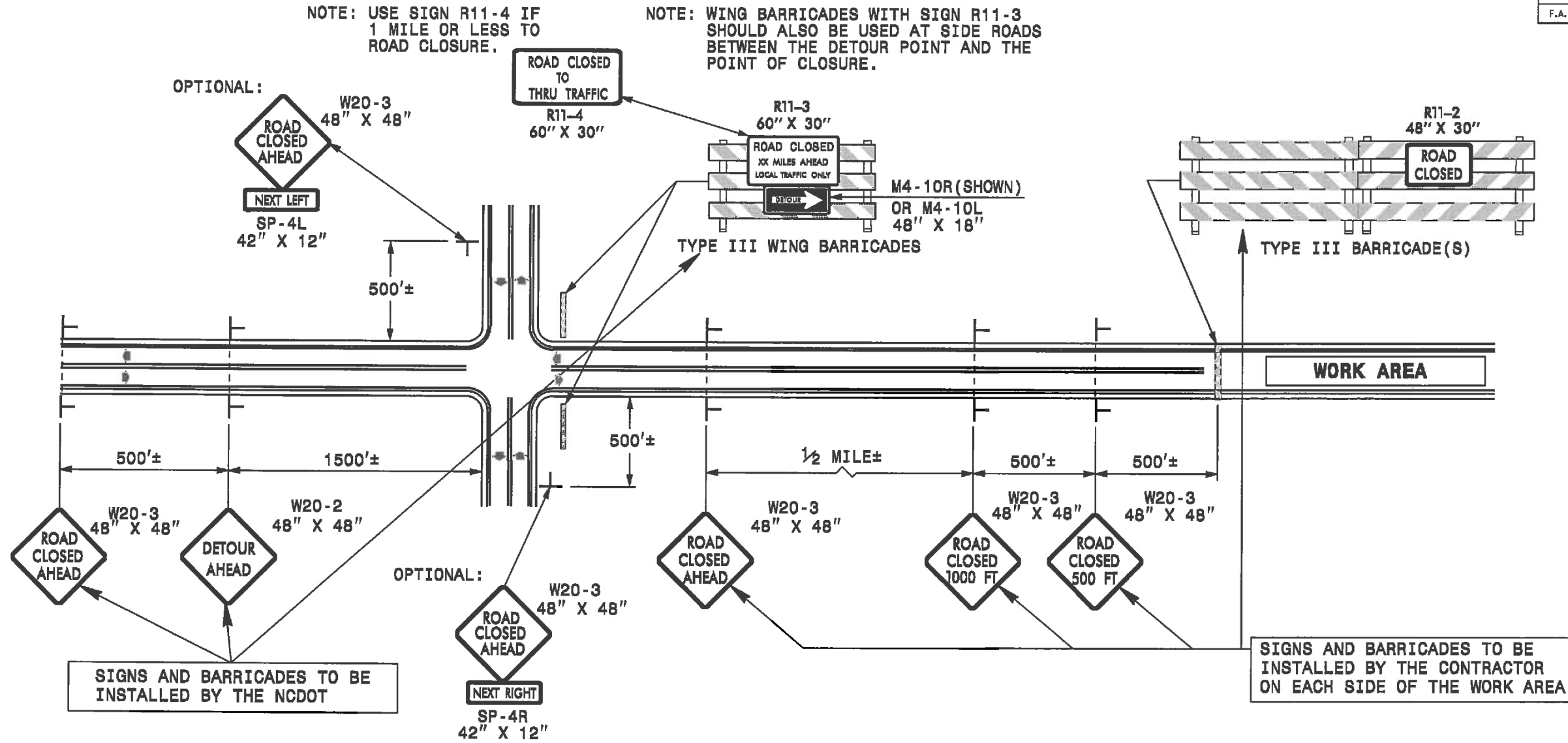
JANET KYAW BURWELL
AND
STEPHEN EDWARD KYAW
DB 24230 PG 388

METRO-MECK LAND DEVELOPMENT CO.
DB 4969 PG 139

WORK AREA A

HARRISBURG RD. & CAMBRIDGE COMMONS ROUNDBOUT			
SCALE	1"=50'		REVISIONS
DATE	12-02-12		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	43/97.3J	TCP-8	
F.A. PROJECT NO.			



GENERAL NOTES

- 1-IF NECESSARY USE THIS STD. FOR TWO-LANE, TWO-WAY, AND MULTILANE DIVIDED AND UNDIVIDED ROADWAYS.
- 2-INSTALLATION OF DETOUR ROUTING PANELS, TEMPORARY ROUTE MARKERS, DESTINATION SIGNS, AND ANY NECESSARY MODIFICATIONS TO EXISTING OR PROPOSED REGULATORY OR WARNING SIGNS WILL BE MADE BY NCDOT FORCES UNLESS OTHERWISE DESIGNATED IN THE PLANS. PROVIDE A MINIMUM 21 CALENDAR DAY NOTICE TO STATE FORCES BEFORE A ROADWAY IS CLOSED TO TRAFFIC SUCH THAT THE NECESSARY PROVISIONS CAN BE MADE TO INSTALL DETOUR ROUTE SIGNS, INFORM LOCAL EMERGENCY AND LAW ENFORCEMENT PERSONNEL, SCHOOLS, OR ANY OTHER PARTIES AFFECTED BY THE ROAD CLOSURE.
- 3-INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
- 4-USE ADDITIONAL TYPE III BARRICADES IN STAGGERED LOCATIONS SUPPLEMENTED WITH SIGN R11-4 "ROAD CLOSED TO THRU TRAFFIC" IN THE EVENT THAT TRAFFIC MUST BE MAINTAINED BEYOND THE DETOUR POINT.
- 5-DO NOT DISPLAY FRACTIONS OR DECIMALS ON SIGN R11-3 "ROAD CLOSED XX MILES AHEAD".
- 6-POSITION WING BARRICADES ON THE SHOULDERS AND SLOPE THE STRIPES DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING.
- 7-USE PORTABLE SIGNS IF ROAD CLOSURE IS TO BE IMPLEMENTED FOR LESS THAN ONE DAY OR FOR EMERGENCIES.

LEGEND

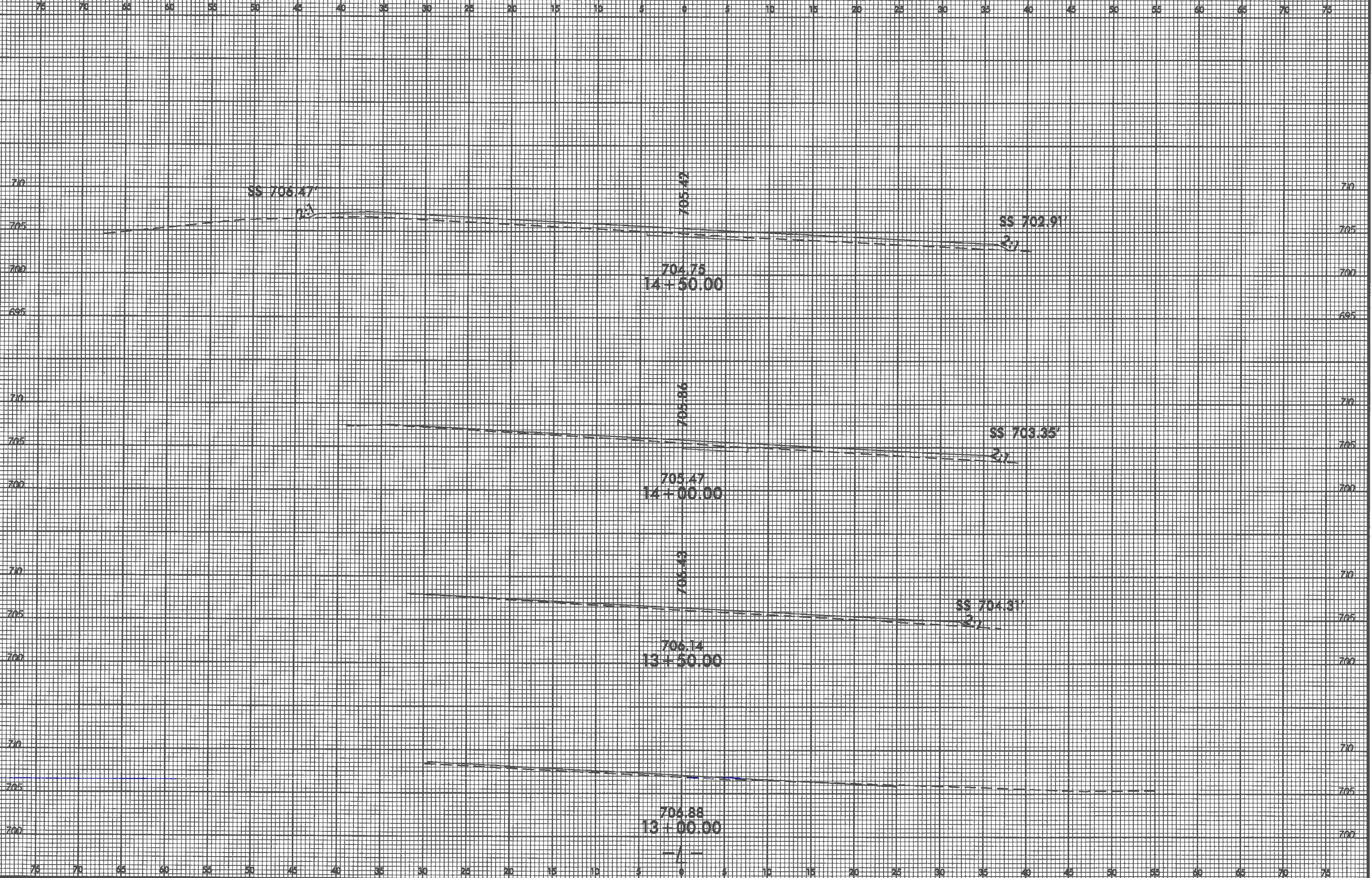
- ┆ STATIONARY SIGN
- ➔ DIRECTION OF TRAFFIC FLOW

TEMPORARY ROAD CLOSURE
CLOSURE BEYOND DETOUR POINT

SCALE	-NA-	REVISIONS	
DATE	1-9-10		
DWG. BY	TWB		
APPROVED	RWB		

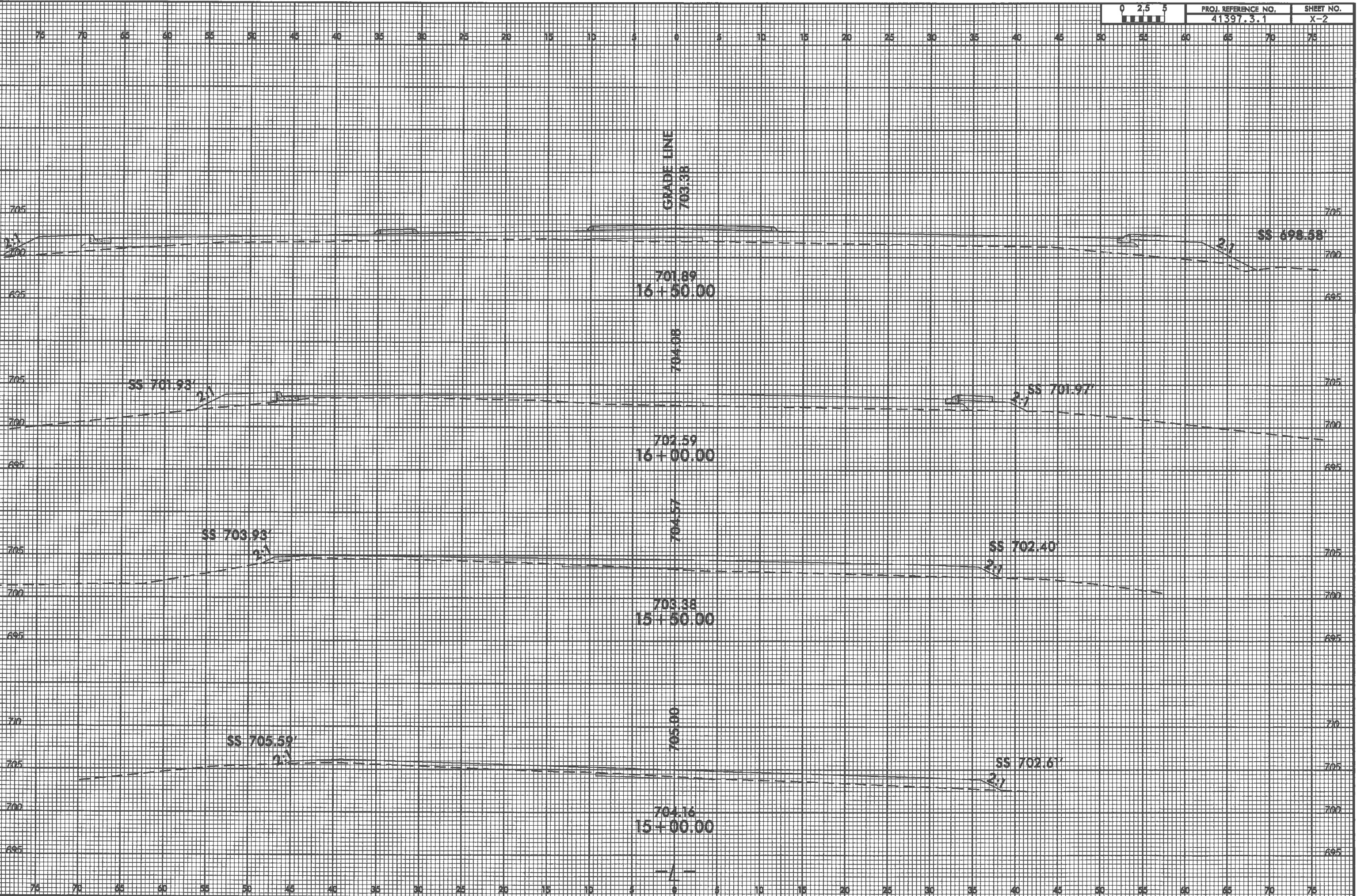


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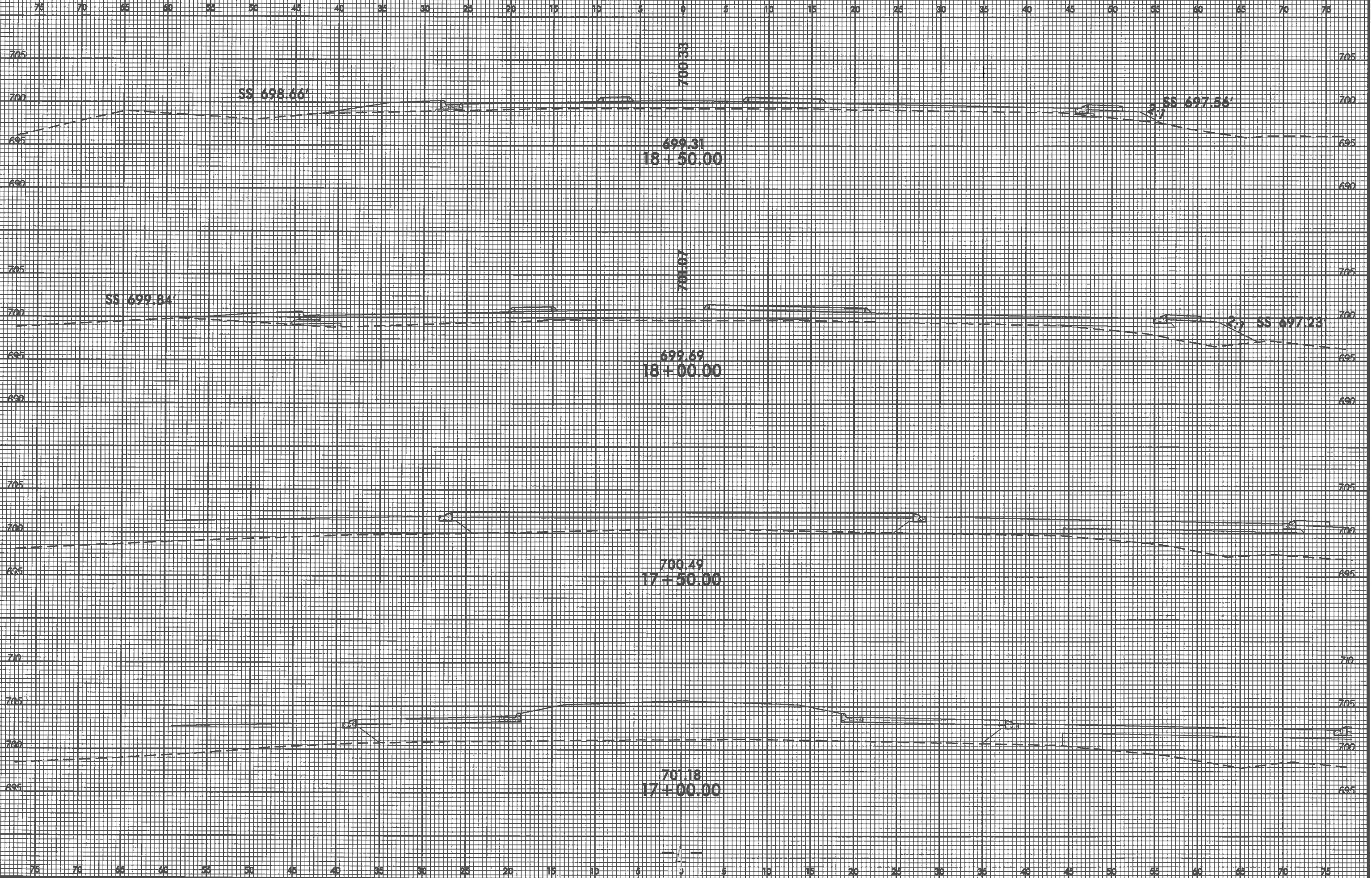
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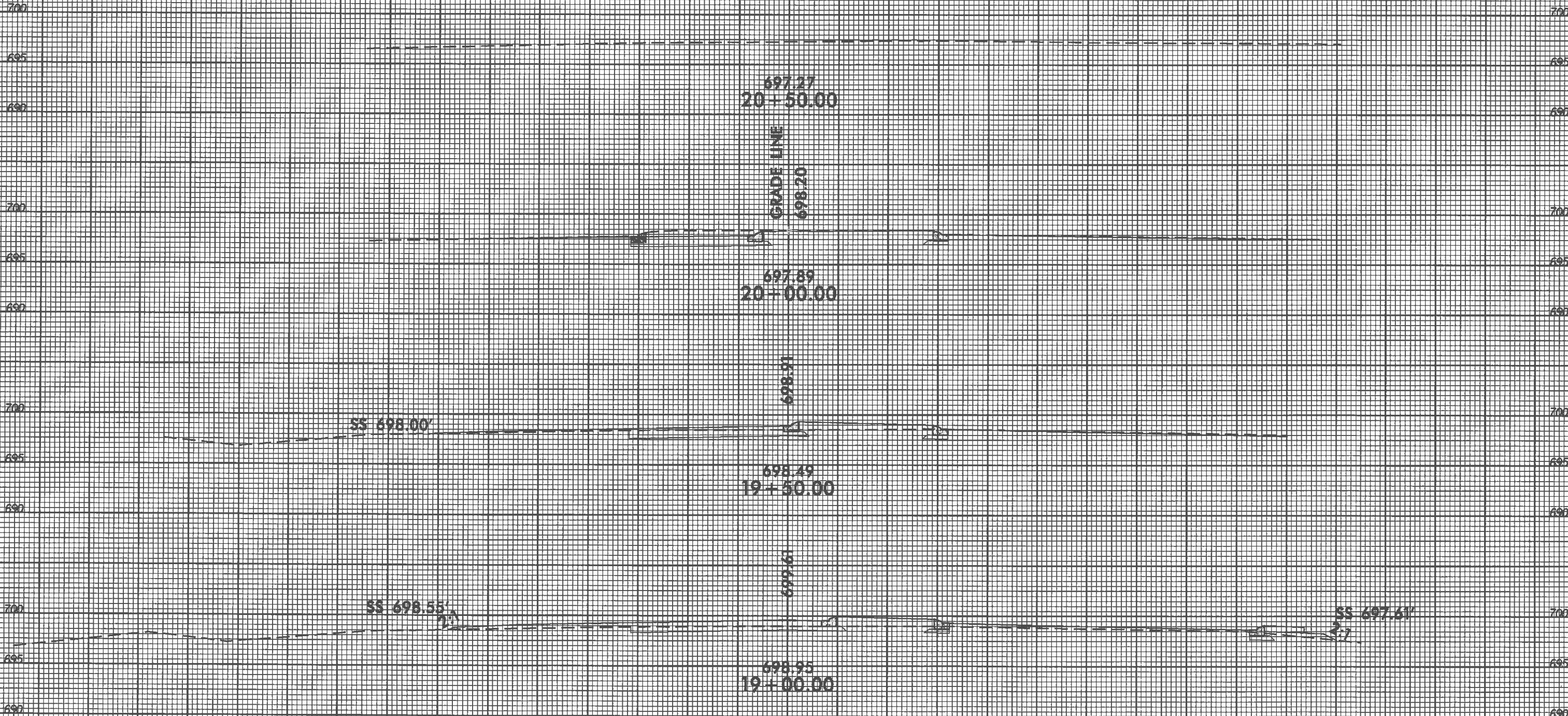
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8/23/99



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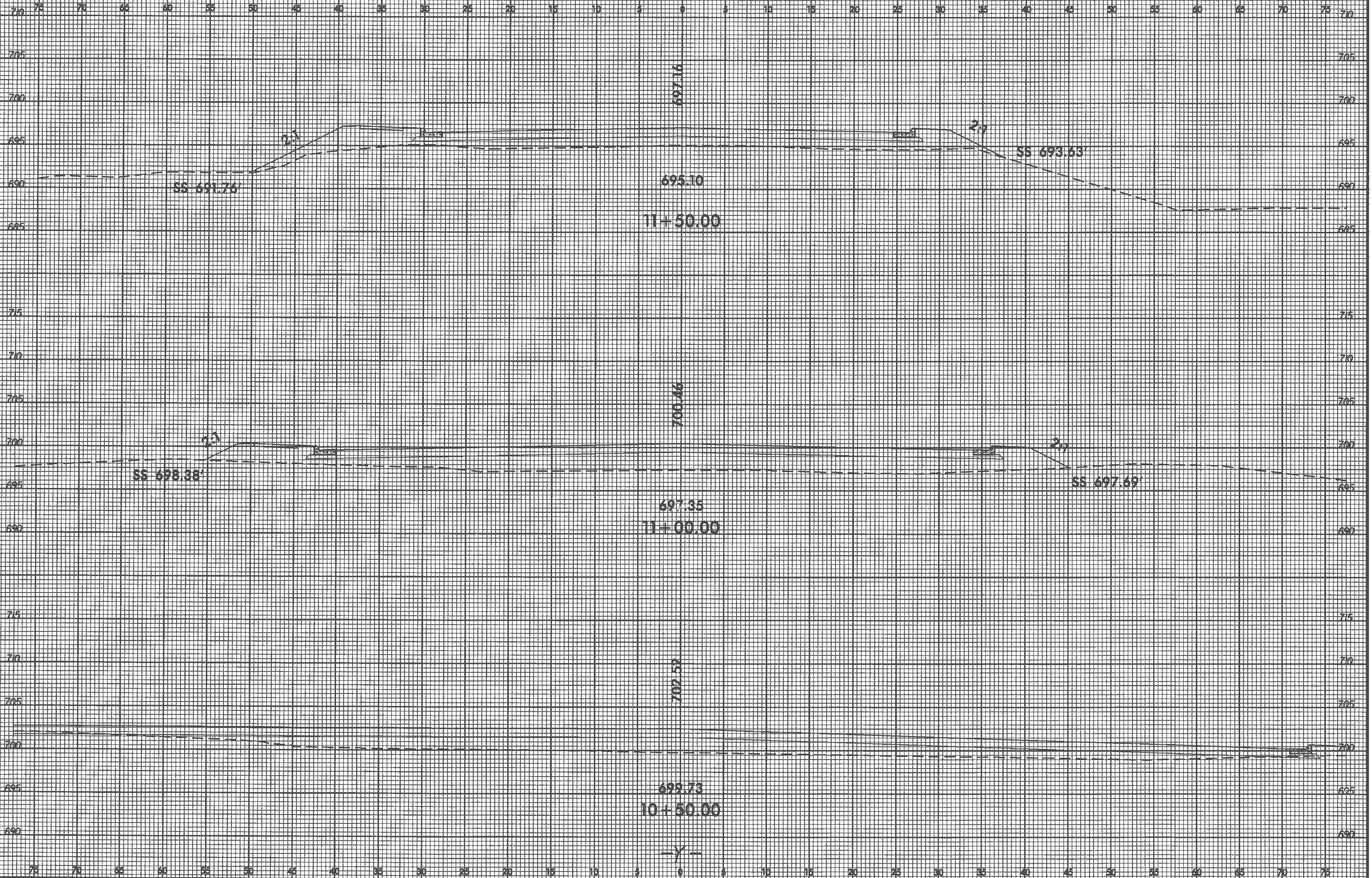
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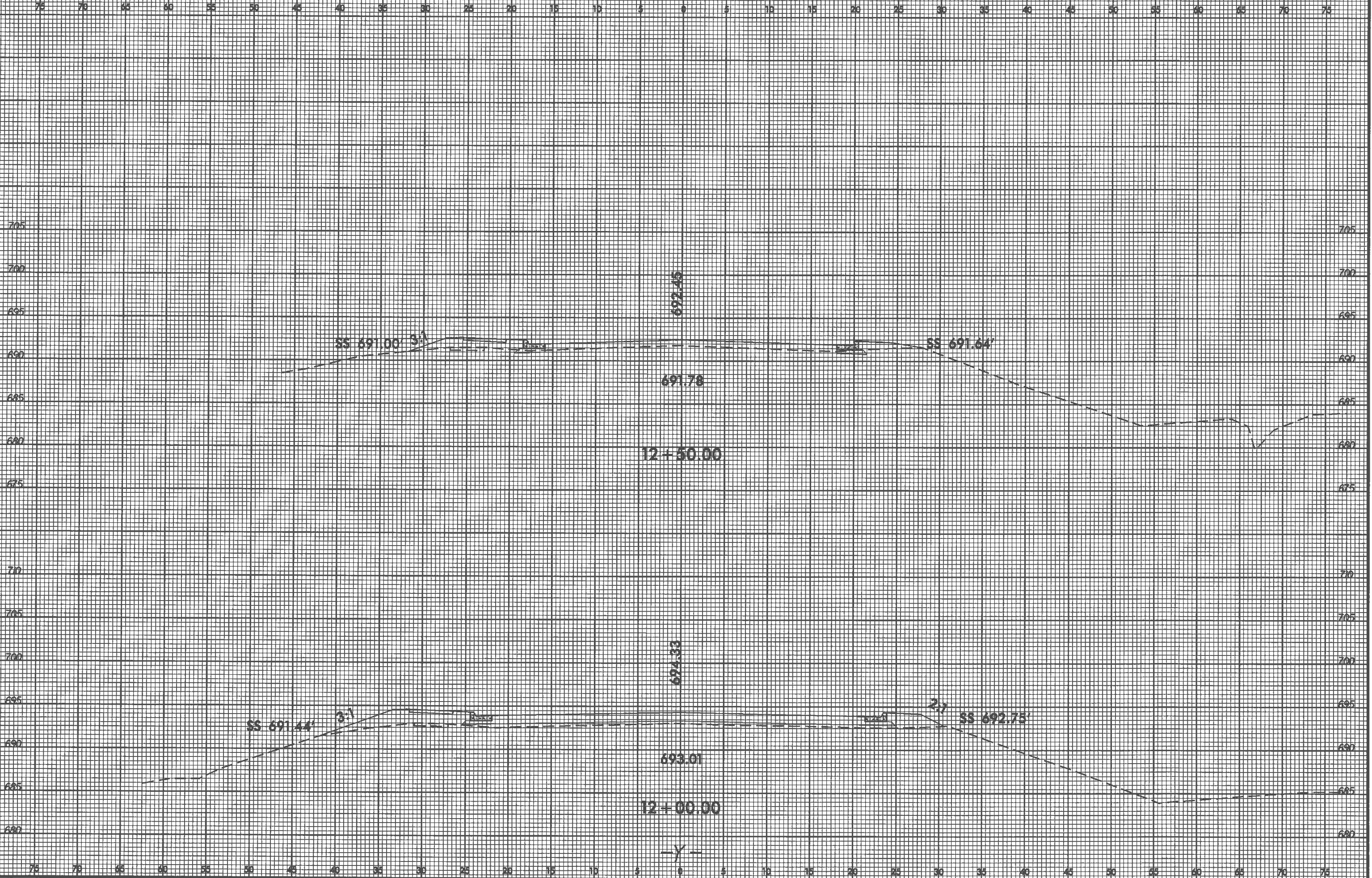
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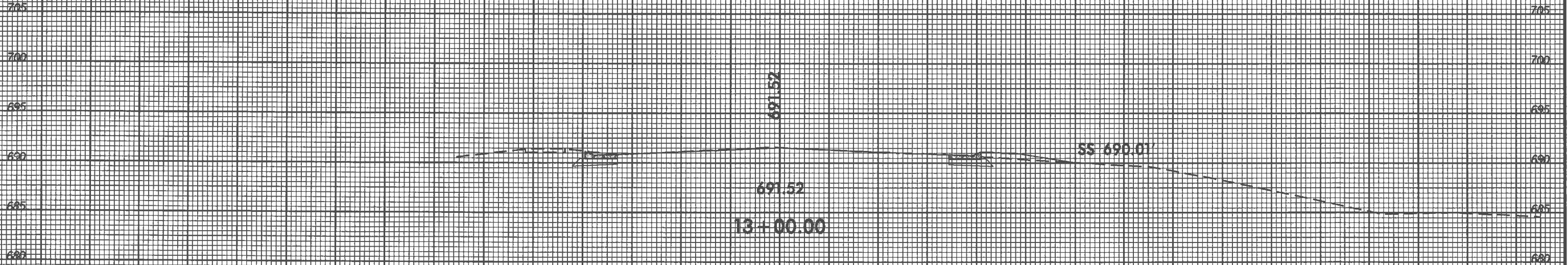
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 Author: Jason

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