

09/08/09

CONTRACT: U-5325B

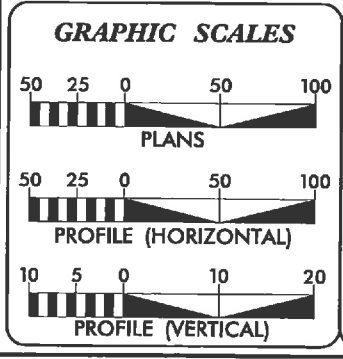
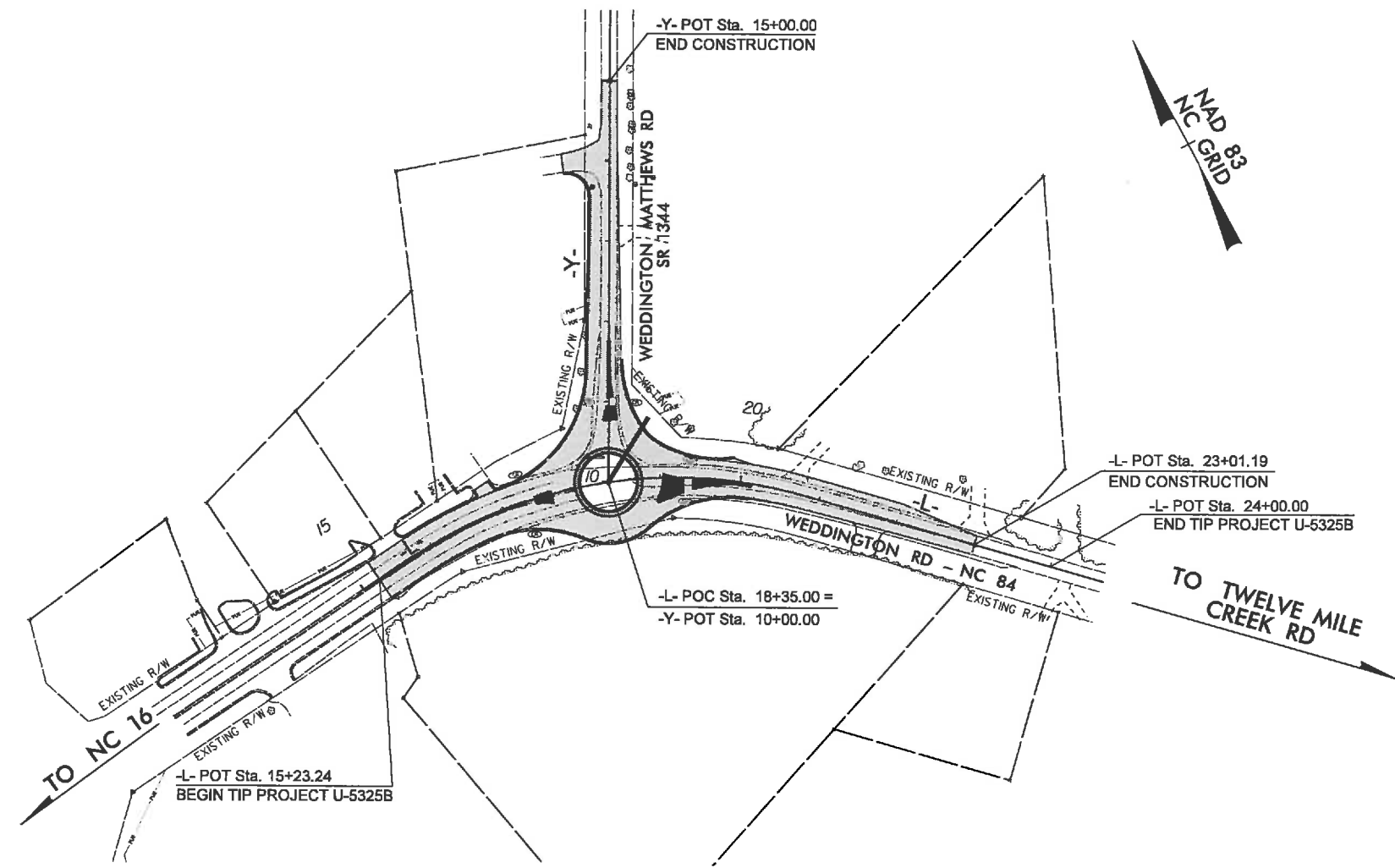
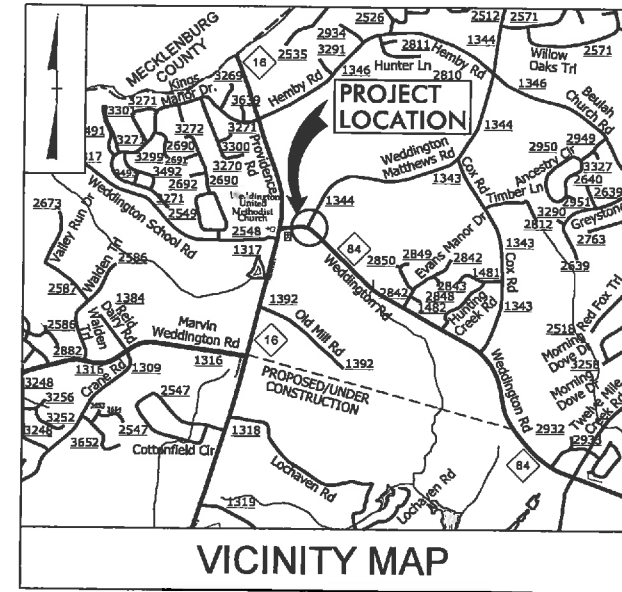
CONTRACT: U-5325B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
UNION COUNTY

**LOCATION: INTERSECTION OF NC 84 (WEDDINGTON ROAD)
AND SR 1344 (WEDDINGTON MATTHEWS ROAD)**

**TYPE OF WORK: CONSTRUCT A ROUNDABOUT, GRADING,
DRAINAGE, PAVING AND PAVEMENT MARKINGS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5325B	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47081.1.1	N/A	PE	
47081.2.3	N/A	RW, UTIL.	
47081.3.3	N/A	CONSTR.	



DESIGN DATA

ADT 2010 =	15,000
ADT 2030 =	29,800
DHV =	10 %
D =	60 %
V =	30 MPH
FUNC CLASS =	URBAN COLLECTOR

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5325B	=	0.261 MILES
TOTAL LENGTH TIP PROJECT U-5325B	=	0.261 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: FEBRUARY 10, 2012	TIM HAYES, PE PROJECT ENGINEER
LETTING DATE: JUNE 12, 2012	ERIC MISAK PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SEAL
05337
ERIC MISAK
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA

SIGNATURE: *[Signature]* P.E.

ROADWAY DESIGN ENGINEER

SEAL
18523
TIM HAYES
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA

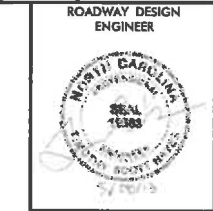
SIGNATURE: *[Signature]* P.E.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

P.E.
STATE HIGHWAY DESIGN ENGINEER

CONTRACT: U-5325B
 PROJECT: U-5325B
 SHEET: 1 OF 1
 DATE: 09/08/09

B.177/99



SHEET NUMBER	TITLE
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEET
2 THRU 2-B	PAVEMENT SCHEDULE, WEDGING DETAILS, AND TYPICAL SECTIONS
2-C	ROUNDAOBT DETAIL SHEET
3	SUMMARY OF QUANTITIES
3-A	SUMMARY OF DRAINAGE QUANTITIES, SUMMARY OF EARTHWORK AND PAVEMENT REMOVAL SUMMARY
4	PLAN SHEET
5	PROFILE SHEET
TMP-1 THRU TMP-7	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-3	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
X-1 THRU X-7	CROSS-SECTIONS

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - 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
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
848.02	Driveway Turnout - Radius Type
848.05	Curb Ramp - Proposed Curb & Gutter
852.01	Concrete Islands
876.02	Guide for Rip Rap at Pipe Outlets

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GENERAL NOTES: 2012 SPECIFICATIONS
 EFFECTIVE: 01-17-2012
 REVISED: 07-30-2012

GRADING AND SURFACING OR RESURFACING AND WIDENING:

 THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

 CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SUPERELEVATION:

 ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

 ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

 THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

DRIVEWAYS:

 DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

SUBSURFACE PLANS:

 NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

 UTILITY OWNERS ON THIS PROJECT ARE: PIEDMONT NATURAL GAS-SHAUN HONEYCUTT (704) 438-0036
 UNION POWER-MARK McCLAMROCK (704) 289-3145 EXT. 3255
 UNION COUNTY PUBLIC WORKS-CHARLES O'CAIN (704) 296-4244

RIGHT-OF-WAY MARKERS:

 ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

CURB RAMPS:

 CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 and/or 848.06.

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○
Property Corner	-----
Property Monument	□
Parcel/Sequence Number	②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----
Known Soil Contamination: Boundary or Site	☠
Potential Soil Contamination: Boundary or Site	☠

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	⊗
Foundation	□
Area Outline	□
Cemetery	⊕
Building	□
School	⊕
Church	⊕
Dam	⊕

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	-----
Buffer Zone 1	-----
Buffer Zone 2	-----
Flow Arrow	-----
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Drainage /Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

Proposed Permanent Easement with Iron Pin and Cap Marker	◆
Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	○
Curb Cut Future Ramp	○
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----

VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	-----
Woods Line	-----

Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	-----

UTILITIES:

POWER:	
Existing Power Pole	○
Proposed Power Pole	○
Existing Joint Use Pole	○
Proposed Joint Use Pole	○
Power Manhole	○
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	○
H-Frame Pole	○
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	○
Proposed Telephone Pole	○
Telephone Manhole	○
Telephone Booth	□
Telephone Pedestal	□
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	○
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

WATER:

Water Manhole	○
Water Meter	○
Water Valve	○
Water Hydrant	○
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	-----

TV:

TV Satellite Dish	⊕
TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	○
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

GAS:

Gas Valve	○
Gas Meter	○
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

SANITARY SEWER:

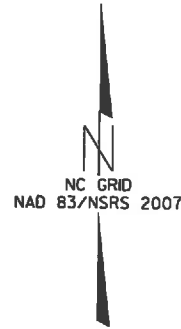
Sanitary Sewer Manhole	○
Sanitary Sewer Cleanout	○
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

MISCELLANEOUS:

Utility Pole	○
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	□
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

SURVEY CONTROL SHEET U-5325B

PROJECT REFERENCE NO. U-5325B	SHEET NO. 1-C
RW SHEET NO.	



BASELINE STATION BL-4
LOCALIZED PROJECT COORDINATES
N= 468034.160 (ft)
E= 1473251.725 (ft)
ELEV= 723.109 (ft)

BASELINE STATION BL-2
LOCALIZED PROJECT COORDINATES
N= 467708.466 (ft)
E= 1473085.856 (ft)
ELEV= 728.778 (ft)

BASELINE STATION BL-3
LOCALIZED PROJECT COORDINATES
N= 467597.887 (ft)
E= 1472595.052 (ft)
ELEV= 725.457 (ft)

BASELINE STATION BL-1
LOCALIZED PROJECT COORDINATES
N= 467315.391 (ft)
E= 1473463.403 (ft)
ELEV= 716.296 (ft)

DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BL-2" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 467708.466(ft) EASTING: 1473085.856(ft) ELEVATION: 728.778(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999850480 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-2" TO -L- STATION 15+00.00 IS 319.30' S 80 33 19.72" W ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

BEGIN TIP PROJECT U-5325B
-L- POT Sta. 15+23.24

END TIP PROJECT U-5325B
-L- POT Sta. 24+00.00

BASELINE DATA

-BL- POINT	DESC.	NORTH	EAST	ELEVATION	STATION	OFFSET
1	BL-1	467315.3910	1473463.4030	716.296	-L- 23+22.67	26.66 RT
2	BL-2	467708.4660	1473085.8560	728.778	-L- 17+98.68	67.77 LT
3	BL-3	467597.8866	1472595.0517	725.457	-L- OUTSIDE LIMITS	
4	BL-4	468034.1600	1473251.7252	723.109	-Y- 14+25.36	57.23 LT

NOTES:

■ INDICATES BASELINE CONTROL MONUMENTS USED OR SET FOR HORIZONTAL AND VERTICAL PROJECT CONTROL

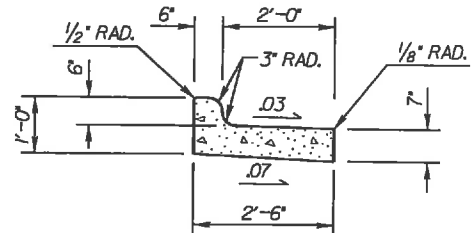
NOTE: DRAWING NOT TO SCALE

PLANS PREPARED BY:
PARSONS BRINCKERHOFF
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
LICENSE NO. F-0165

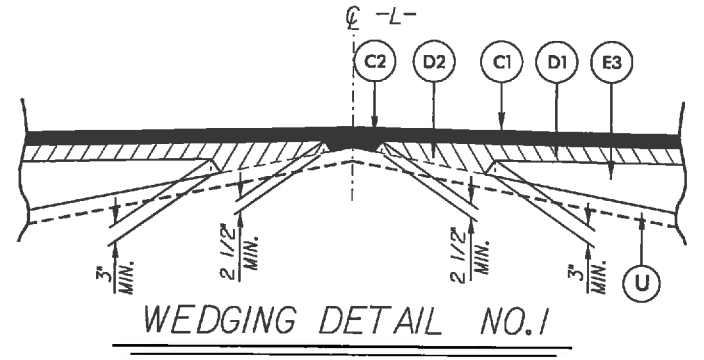
8/17/99 REVISIONS

PAVEMENT SCHEDULE	
A1	7" TRUCK MOUNTABLE CONCRETE ISLAND WITH BLACK TINT. (CLASS AA CONCRETE)
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
R1	1'-6" CONCRETE CURB AND GUTTER (CLASS AA CONCRETE WITH BLACK TINT).
R2	2'-6" CONCRETE CURB AND GUTTER.
R3	5" MONOLITHIC CONCRETE ISLAND.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL NO.1).

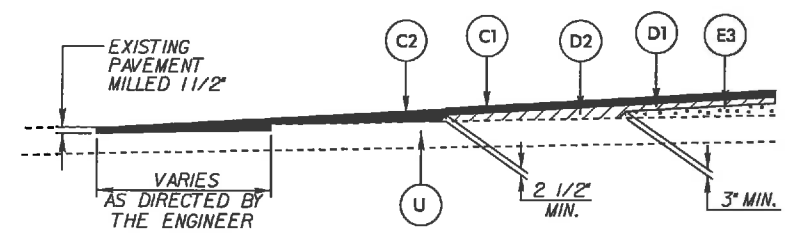
NOTE: ALL PAVEMENT EDGE SLOPES ARE 1/4 UNLESS OTHERWISE SHOWN.



MODIFIED 2'-6" CURB AND GUTTER DETAIL

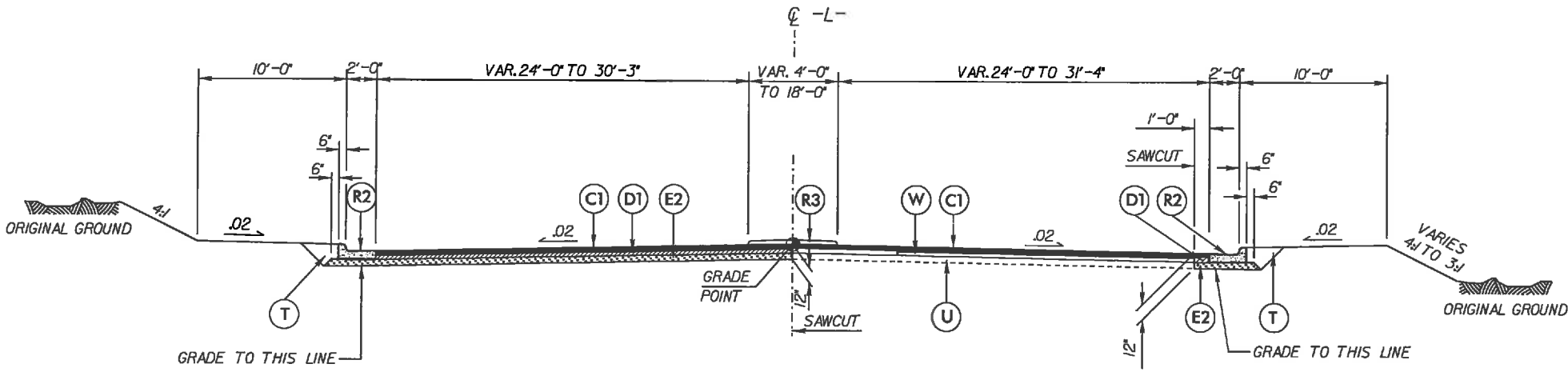


WEDGING DETAIL NO.1



MILLING DETAIL FOR PROFILE CONNECTIONS

TYING PROPOSED PAVEMENTS TO EXISTING PAVEMENTS

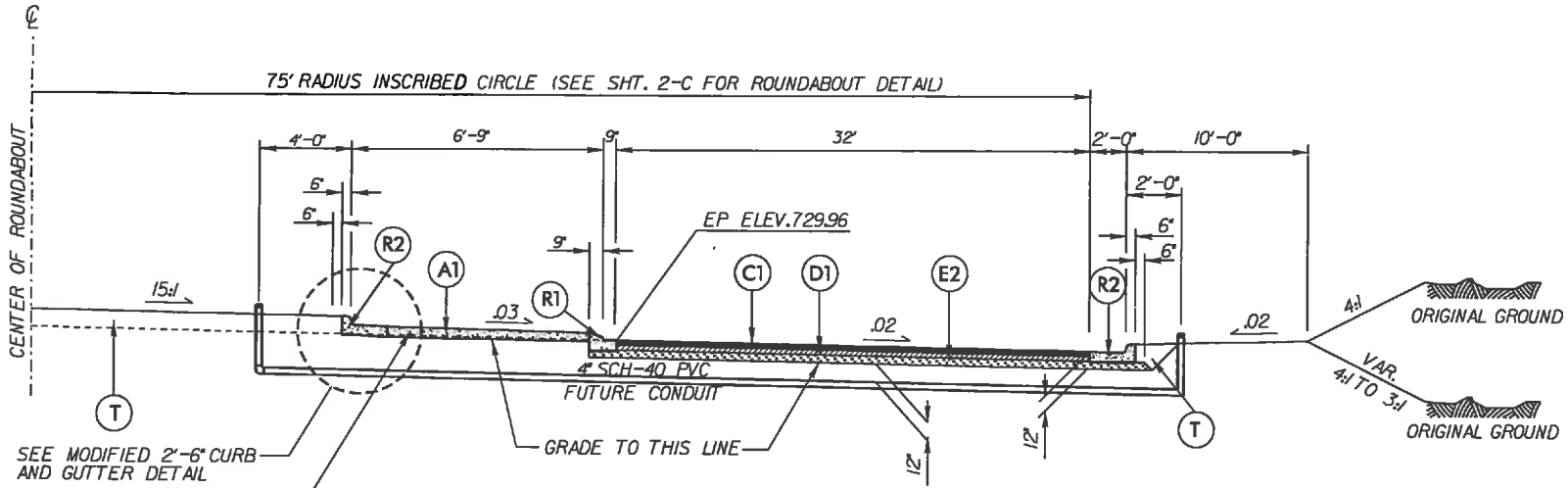


TYPICAL SECTION NO.1

-L- HWY84 WEDDINGTON ROAD

USE TYPICAL SECTION No.1 AS FOLLOWS:

-L- STA. 15+23.24 TO 17+59.95



TYPICAL SECTION NO.2

-L- HWY 84 WEDDINGTON ROAD (ROUNDABOUT)
-Y- SR 1344 WEDDINGTON MATTHEWS ROAD

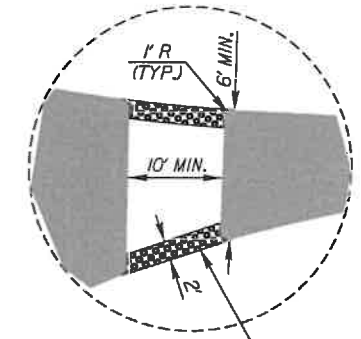
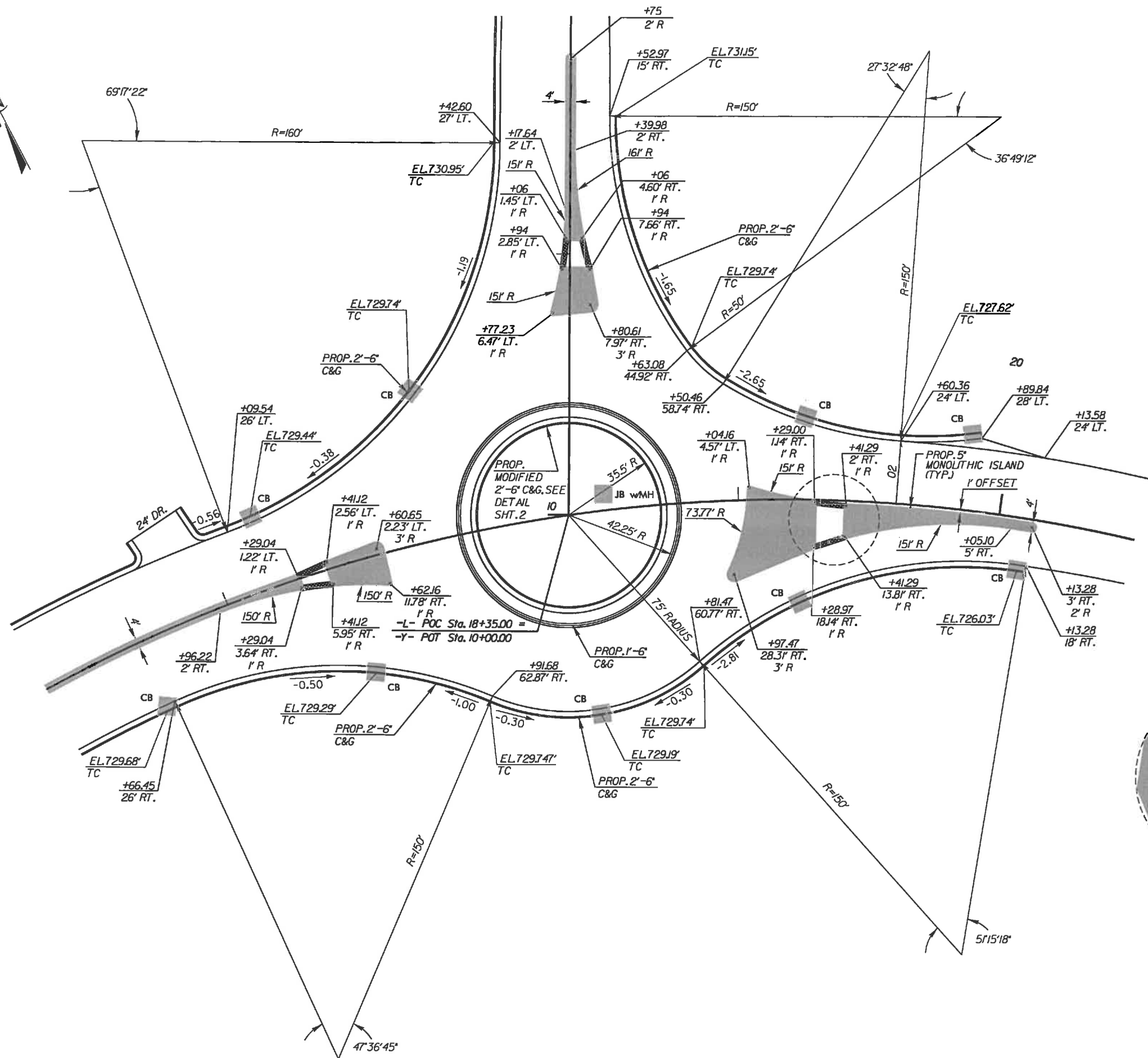
USE TYPICAL SECTION No.2 AS FOLLOWS:

-L- STA. 18+35.00
-Y- STA. 10+00.00

PROJECT REFERENCE NO. **U-5325B** SHEET NO. **2**
 RW SHEET NO. _____
 ROADWAY DESIGN ENGINEER

CONTRACT NO. 98-301
 SECTION 212
 DRAWING NO. 212-1

PROJECT REFERENCE NO. U-5325B		SHEET NO. 2-C	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
GRAPHIC SCALE			
20 10 0 20 40			
PLANS			
ROUNDBABOUT DETAIL SHEET			



DETAIL "A"
(TYP.)

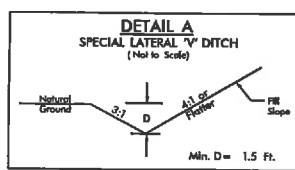
PLANS PREPARED BY:
PARSONS BRINCKERHOFF
 434 FAYETTEVILLE STREET
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B.17/99

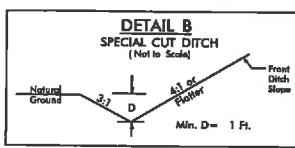


-L-

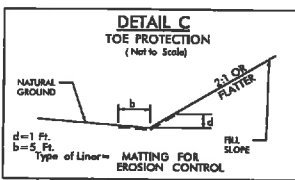
$\Delta = 49^\circ 52' 35.3''$ (RT)
 $D = 9^\circ 52' 42.9''$
 $L = 504.89'$
 $T = 269.70'$
 $R = 580.00'$
 $e = NC$
 $V = 35\text{mph}$



FROM STA. TO STA.
 -L- 19+88 (LT) - 20+50 (LT)

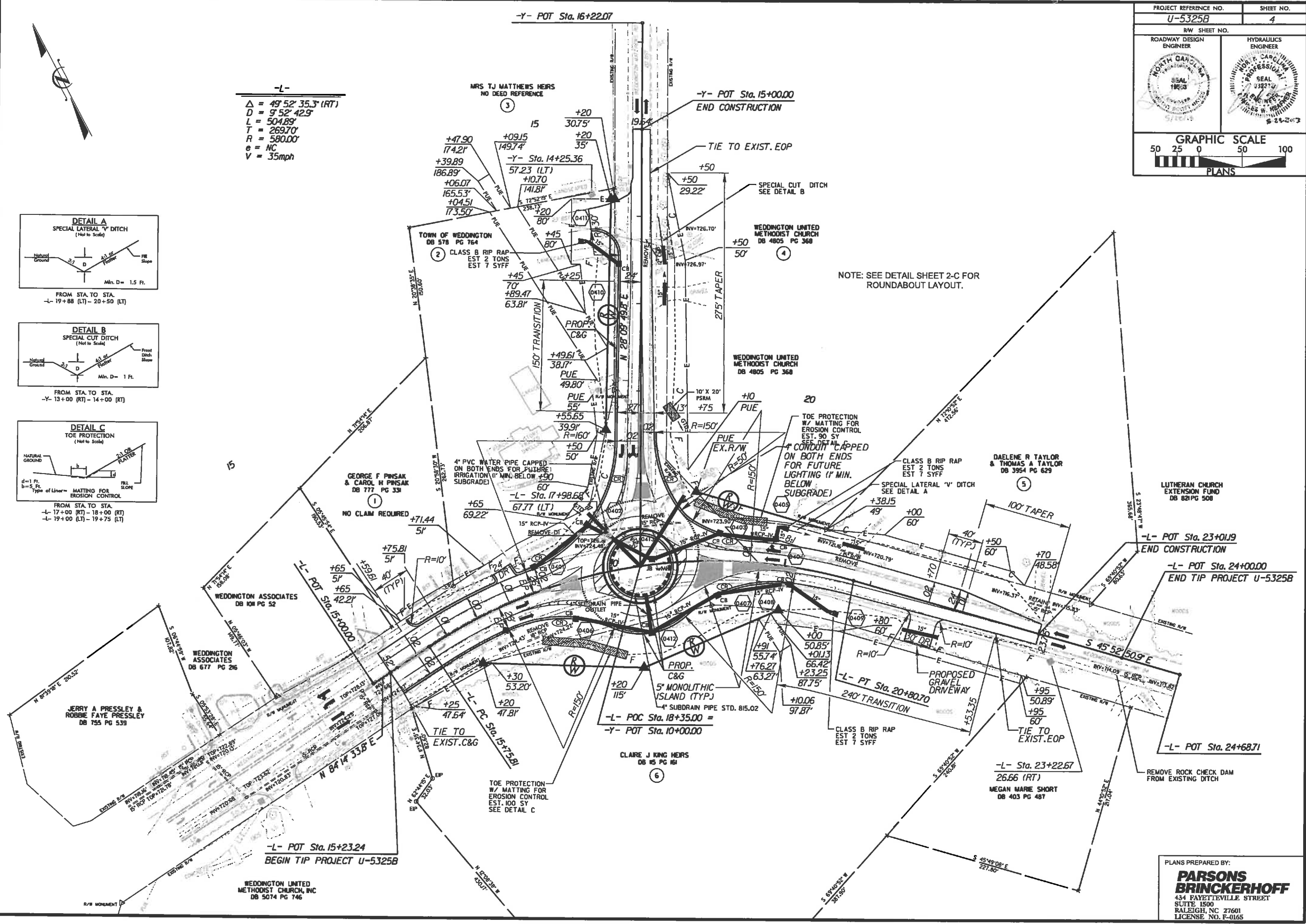


FROM STA. TO STA.
 -Y- 13+00 (RT) - 14+00 (RT)





FROM STA. TO STA.
 -L- 17+00 (RT) - 18+00 (RT)
 -L- 19+00 (LT) - 19+75 (LT)

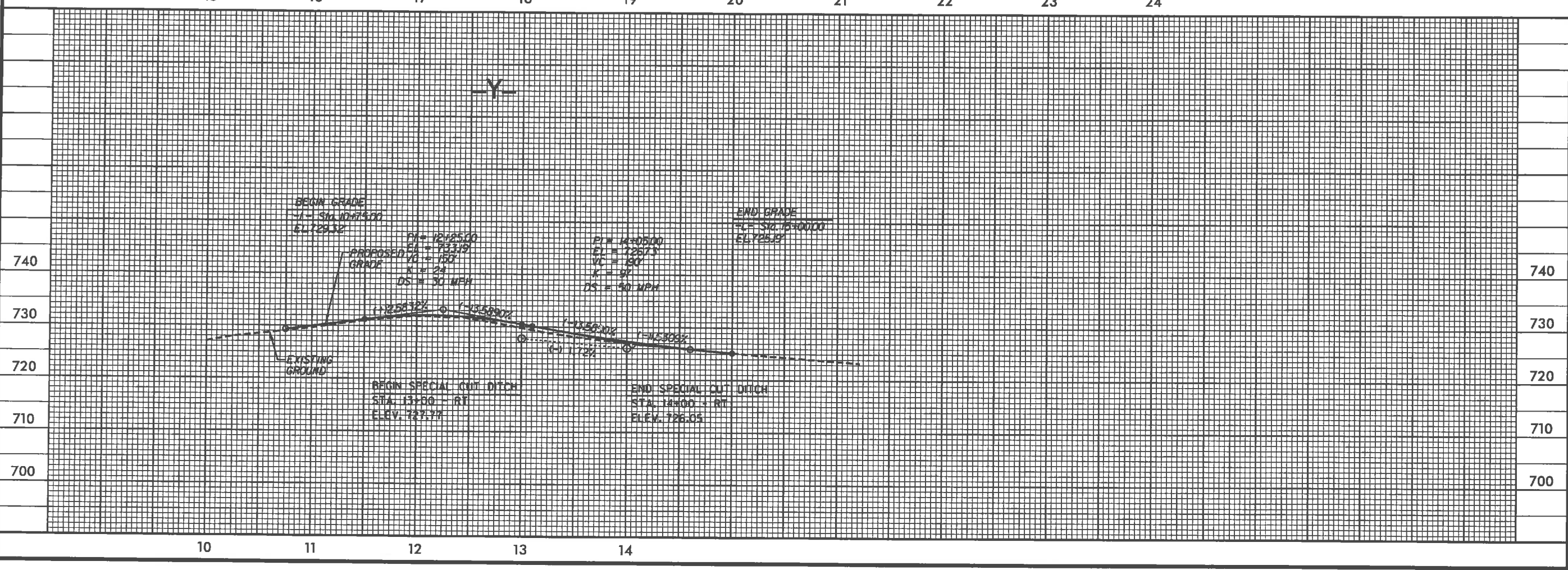
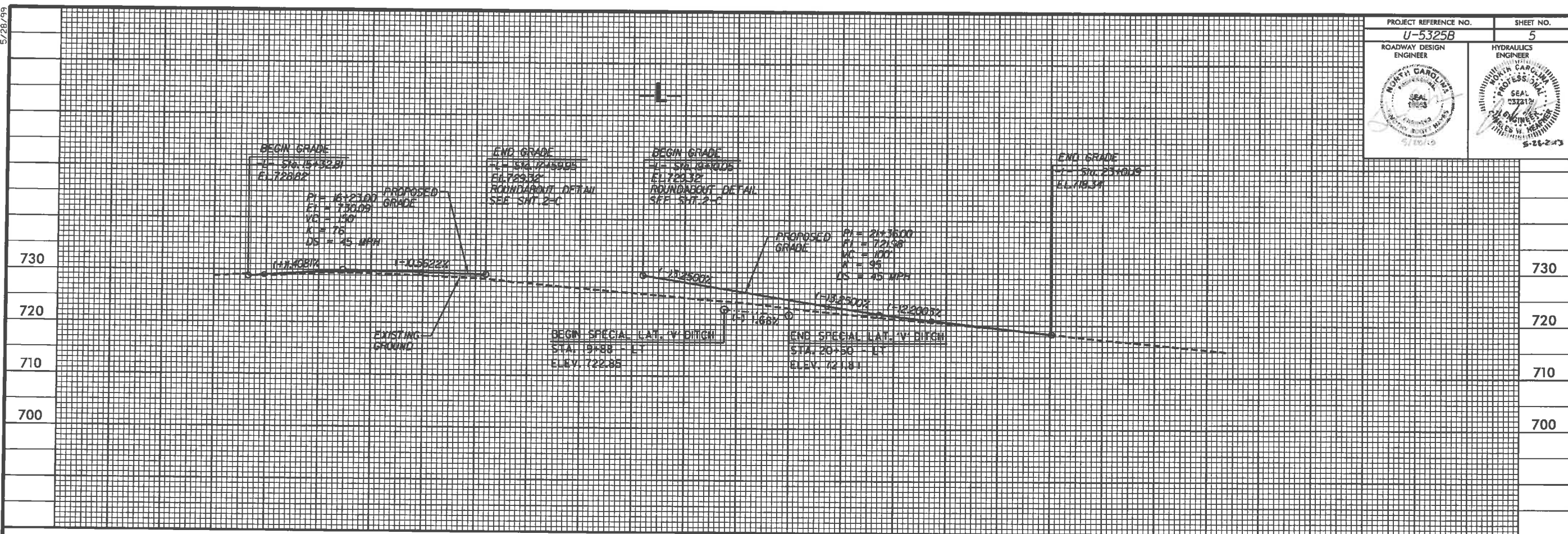
PROJECT REFERENCE NO. U-5325B	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
GRAPHIC SCALE	
50 25 0 50 100 PLANS	



PLANS PREPARED BY:
PARSONS BRINCKERHOFF
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
 LICENSE NO. F-0165

5/28/99

PROJECT REFERENCE NO. U-5325B	SHEET NO. 5
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 



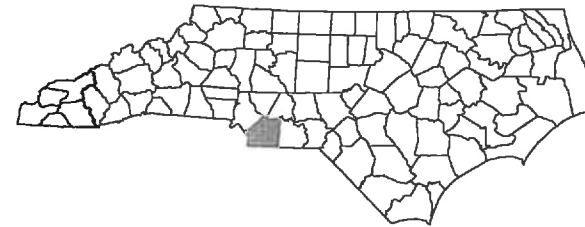
SYSTEMS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

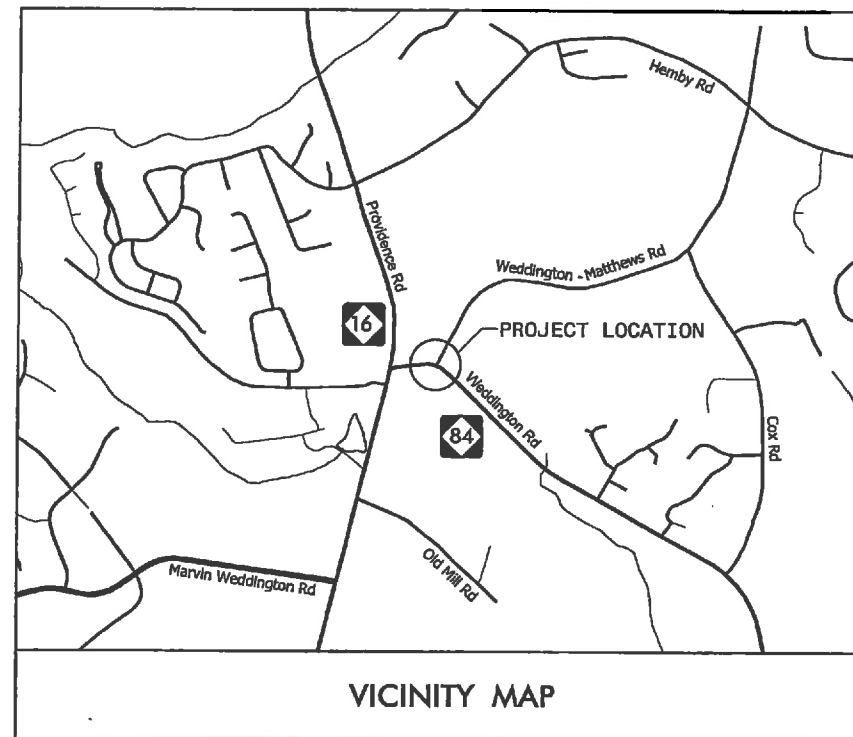
TRANSPORTATION MANAGEMENT PLAN

UNION COUNTY

DIVISION 10



**INTERSECTION OF NC 84 (WEDDINGTON RD.) AT
SR 1334 (WEDDINGTON-MATTHEWS RD.)**



VICINITY MAP

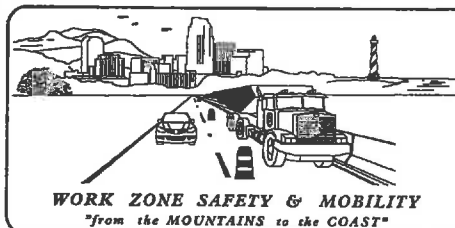
INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LEGEND AND ROADWAY STANDARD DRAWINGS
TMP-2	GENERAL NOTES
TMP-3	PHASING
TMP-4, 4A	PHASE I/II NC 84/WEDDINGTON-MATTHEWS RD. ROAD CLOSURES
TMP-5	PHASE II-STEP 1 NC 84/WEDDINGTON-MATTHEWS RD. DETOUR ROUTE
TMP-6	PHASE II-STEP 2 NC 84 SHORT TERM INTERIM ROAD CLOSURE
TMP-7	PHASE III-STEP 2 CONCRETE ISLAND COMPLETION -L- 15+23-15+75

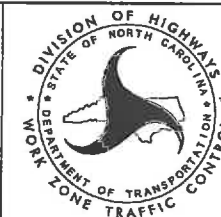
TRAFFIC MANAGEMENT STRATEGY

CONSTRUCTION OF PROPOSED ROADWAY WILL BE PERFORMED USING A TEMPORARY ROAD CLOSURE UNDER AN INTERMEDIATE CONTRACT TIME. (SEE TMP-3 FOR PHASING)

5/23/2013 U:\TrafficControl\TCP\Plan Sheets\U-5325B.TC.TMP_01.TITLE.dgn gkarageorge



PLAN PREPARED FOR NCDOT DIVISION 10



PLAN PREPARED BY:
Stantec Consulting Services Inc.
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BETSY L. WATSON, P.E. TRAFFIC ENGINEER
GEORGE KARAGEORGE WORK ZONE TRANSPORTATION DESIGN MANAGER
REGINA CULLEN, EI TRANSPORTATION DESIGNER

APPROVED: *Betsy L. Watson*
DATE: 5/23/13



SHEET NO.
TMP-1

CONTRACT: 7000010759 TIP PROJECT: U-5325B

LEGEND

- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- ← DIRECTION OF TRAFFIC FLOW
- ← DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- WORK AREA ▨ PAVEMENT REMOVAL
- ↑ NORTH ARROW
- ▨ TYPE III BARRICADE
- ▲ CONE
- DRUM ◎ SKINNY DRUM ⊙ TUBULAR MARKER
- ◻ CHANGEABLE MESSAGE SIGN (CMS)
- ⚡ FLAGGER
- ⚡ FLASHING ARROW BOARD (TYPE C) ◻
- ◻ LAW ENFORCEMENT
- ◻ TRUCK MOUNTED ATTENUATOR (TMA)
- ▬ PORTABLE CONCRETE BARRIER (PCB)
- ~ TEMPORARY CRASH CUSHION
- ~ TEMPORARY SHORING
- ⊓ WORK ZONE SIGN-PORTABLE
- ⊓ WORK ZONE SIGN-STATIONARY
- ⊓ WORK ZONE SIGN-STATIONARY OR PORTABLE

PAVEMENT MARKINGS

- EXISTING PAVEMENT MARKING (GRAY)
- - - SKIP LINES
- · - · - · - MINI-SKIP LINES
- SOLID LINES

SIGNALS

- ◻ EXISTING ◻ PROPOSED ◻ TEMPORARY

PAVEMENT MARKING SYMBOLS

- ↑↑↑ PAVEMENT MARKING SYMBOLS
- ↑↑↑ EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
- ONLY PAVEMENT MARKING ALPHANUMERIC CHARACTERS

PAVEMENT MARKERS

- ◻ CRYSTAL/CRYSTAL
- CRYSTAL/RED
- ◆ YELLOW/YELLOW

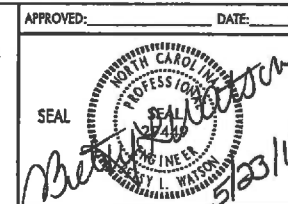
ROADWAY STANDARD DRAWINGS

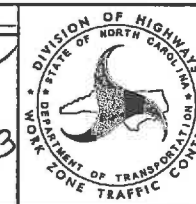
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1130.01	DRUMS
1145.01	BARRICADES

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APPROVED: _____ DATE: _____




LEGEND
 &
ROADWAY STANDARD DRAWINGS

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

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.

ROAD CLOSURE TIME RESTRICTIONS

- A) DO NOT IMPLEMENT ANY SHORT TERM INTERIM ROAD CLOSURES OF NC 84 AS SHOWN ON SHEET TMP-6 DURING THE FOLLOWING HOURS:

DAY AND TIME RESTRICTIONS
5:00 A.M.-11:00 P.M. MONDAY-SUNDAY


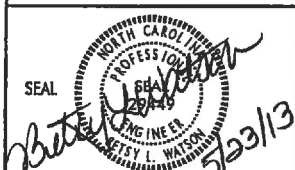
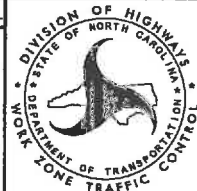
ROAD CLOSURES

- B) NOTIFY THE ENGINEER SEVEN (7) CALENDAR DAYS PRIOR TO ANY ROAD CLOSURE.
- C) STATE FORCES WILL FURNISH AND INSTALL OFFSITE-DETOUR ROUTE SIGNING. STATE FORCES WILL COVER OR REMOVE OFFSITE-DETOUR SIGNING WHEN THE DETOUR IS NOT IN OPERATION. DO NOT CLOSE A ROADWAY BEFORE DETOUR ROUTE SIGNING HAS BEEN INSTALLED.
- D) FURNISH AND INSTALL SIGNING AND DEVICES FOR ROAD CLOSURES ACCORDING TO THE TRAFFIC MANAGEMENT PLAN. COVER OR REMOVE ALL SIGNS AND DEVICES FOR ROAD CLOSURES WHEN NOT IN EFFECT.
- E) WHEN CLOSING A ROADWAY OR DRIVEWAY PLACE TYPE III BARRICADES COMPLETELY ACROSS THE ROADWAY OR FROM CURB TO CURB. ATTACH BARRICADE MOUNTED "ROAD CLOSED" SIGN R11-2 AT ALL CLOSURE LOCATIONS. IF LOCAL TRAFFIC IS TO BE MAINTAINED STAGGER THE BARRICADES TO ALLOW ACCESS.
- F) INSTALL SIGNS BEFORE BARRICADES WHEN CLOSING A ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING A ROADWAY TO TRAFFIC. INSTALL/REMOVE ROAD CLOSURE SIGNS AND BARRICADES IN A CONTINUOUS OPERATION AND WITHIN THE SAME CALENDAR DAY.

MISCELLANEOUS

- G) ALL DIMENSIONS AND STATIONS IN THE TRANSPORTATION MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- H) COMPLETE ANY PROPOSED CONSTRUCTION IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR TRAVEL LANES OPEN TO TRAFFIC.
- I) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.
- J) CHANGEABLE MESSAGE SIGN MESSAGES SHOWN ARE EXAMPLES. OTHER MESSAGES MAY BE USED AS CONDITIONS WARRANT. ALL MESSAGES AND LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INCORPORATING.
- K) PLACE ALL CHANGEABLE MESSAGE SIGNS AS NEEDED IN THE LOCATIONS SHOWN IN THE PLAN OR AS DIRECTED BY THE ENGINEER TO PROVIDE ADVANCE WARNING TO THE PUBLIC DURING CONSTRUCTION.
- L) USE LAW ENFORCEMENT TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE AND MAY BE REVISED AS THE OFFICER OR THE ENGINEER DEEM NECESSARY.

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 Stantec	Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672	APPROVED: _____ DATE: _____ SEAL 		GENERAL NOTES
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PHASING

COMPLETE PHASE II AND PHASE III WITHIN A TIME PERIOD OF 42 CONSECUTIVE CALENDAR DAYS. SEE INTERMEDIATE CONTRACT TIME SPECIAL PROVISIONS AND LIQUIDATED DAMAGES.

PHASE I

INFORM THE ENGINEER AT LEAST SEVEN (7) CALENDAR DAYS BEFORE IMPLEMENTING A ROAD CLOSURE.

STATE FORCES WILL FURNISH AND INSTALL DETOUR ROUTING SIGNS PRIOR TO ANY ROAD CLOSURE.

INSTALL CHANGEABLE MESSAGE SIGNS WITH PRIOR TO ROAD CLOSURE PUBLIC INFORMATION MESSAGES (TMP-4).

PHASE II

STEP 1:

CLOSE NC 84 (WEDDINGTON RD.) AND SR 1344 (WEDDINGTON-MATTHEWS RD.) AS SHOWN ON SHEETS TMP-4,4A,5.

STEP 2:

CONSTRUCT PROPOSED ROADWAY THROUGH THE FINAL PAVEMENT SURFACE. (SEE TMP-4,4A).

MAINTAIN NC 84 LOCAL TRAFFIC ACCESS TO THE HARRIS TEETER SHOPPING CENTER AND SURROUNDING BUSINESSES AND THE WEDDINGTON CHURCH PARKING LOT AS SHOWN ON SHEETS TMP-4,4A.

WHEN PAVING BETWEEN -L- STA. 15+23-15+75 IMPLEMENT A SHORT TERM INTERIM ROAD CLOSURE AS SHOWN ON SHEET TMP-6 DURING THE HOUR RESTRICTIONS STIPULATED IN GENERAL NOTE A ON SHEET TMP-2.

STATE FORCES WILL FURNISH AND INSTALL FINAL SIGNING PRIOR TO THE CONTRACTOR OPENING THE ROADWAY TO TRAFFIC.

STEP 3:

CONSTRUCT MONOLITHIC CONCRETE ISLANDS ON WEDDINGTON-MATTHEWS RD AND THE EAST LEG OF NC 84 ROUNDABOUT. (TMP-4,4A)

CONSTRUCT A PORTION OF THE MONOLITHIC CONCRETE ISLAND ON THE WEST LEG OF NC 84 ROUNDABOUT FROM -L- STA. 15+75-17+64. (TMP-4,4A)

STEP 4:

INSTALL ALL FINAL PAVEMENT MARKINGS AND MARKERS WITH THE EXCEPTION OF THE EDGELINES ADJACENT TO THE PORTION OF THE MONOLITHIC CONCRETE ISLAND ON THE WEST LEG OF NC 84 THAT WILL BE COMPLETED IN PHASE III-STEP 2 .

PHASE III

STEP 1:

REMOVE THE ROAD CLOSURES AND OPEN NC 84 (WEDDINGTON RD.) AND SR 1344 (WEDDINGTON-MATTHEWS RD.) TO THE TRAFFIC PATTERN SHOWN ON SHEET TMP-7.


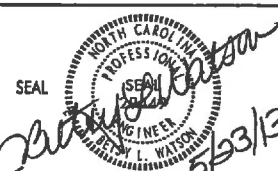

STEP 2:

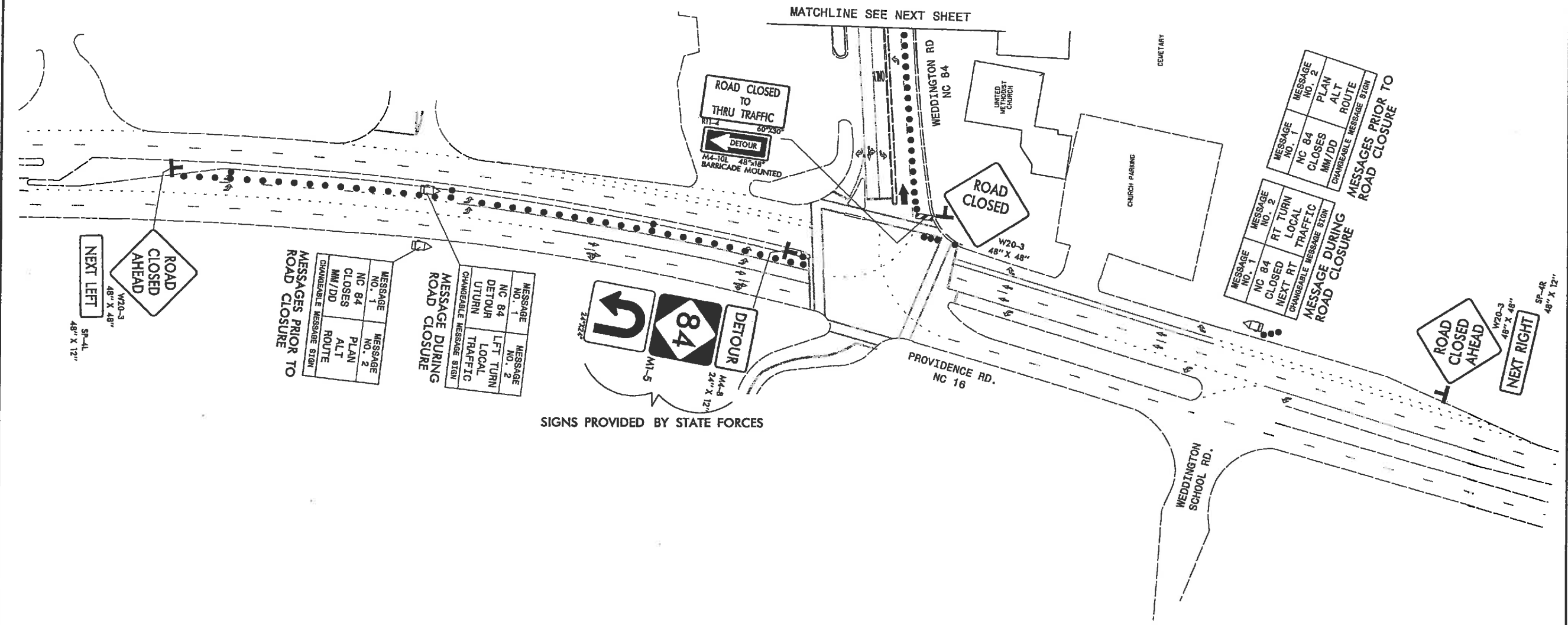
CONSTRUCT REMAINING PORTION OF MONOLITHIC CONCRETE ISLAND ON NC 84 WEST LEG OF THE ROUNDABOUT (15+23-15+75) AND PLACE FINAL MARKING EDGELINES ADJACENT TO THE ISLAND. (TMP-7)

STEP 3:

REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES AND OPEN NC 84 AND SR 1344 TO THE FINAL TRAFFIC PATTERN.


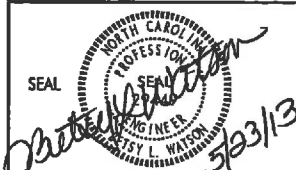


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	<p>5/23/13</p>		



SIGNS PROVIDED BY STATE FORCES

5/23/2013
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PROJ. REFERENCE NO.	SHEET NO.
U-5325B	TMP-4A

APPLY RDWY. STD. 1101.03 SH. 1
ROAD CLOSURE BEYOND DETOUR POINT

ROAD CLOSED
THRU TRAFFIC
TO

-Y- POT Sta. 15+00.00
END CONSTRUCTION

ROAD CLOSED
THRU TRAFFIC
TO

ROAD CLOSED
THRU TRAFFIC
TO

ROAD CLOSED
THRU TRAFFIC
TO



WHEN PAVING IN THIS AREA, CLOSE
THIS SECTION OF NC 84 AS SHOWN
ON SHEET TMP-5.

-L- POT Sta. 23+01.9
END CONSTRUCTION


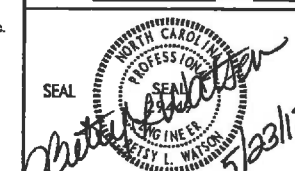
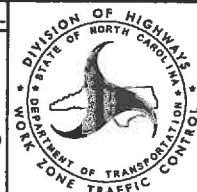
APPLY RDWY. STD. 1101.03 SH. 1
ROAD CLOSURE BEYOND DETOUR POINT

REMOVE EXISTING
QUICK CURB SYSTEM
JUST PRIOR TO CLOSING ROADWAY
TO PROVIDE ACCESS.

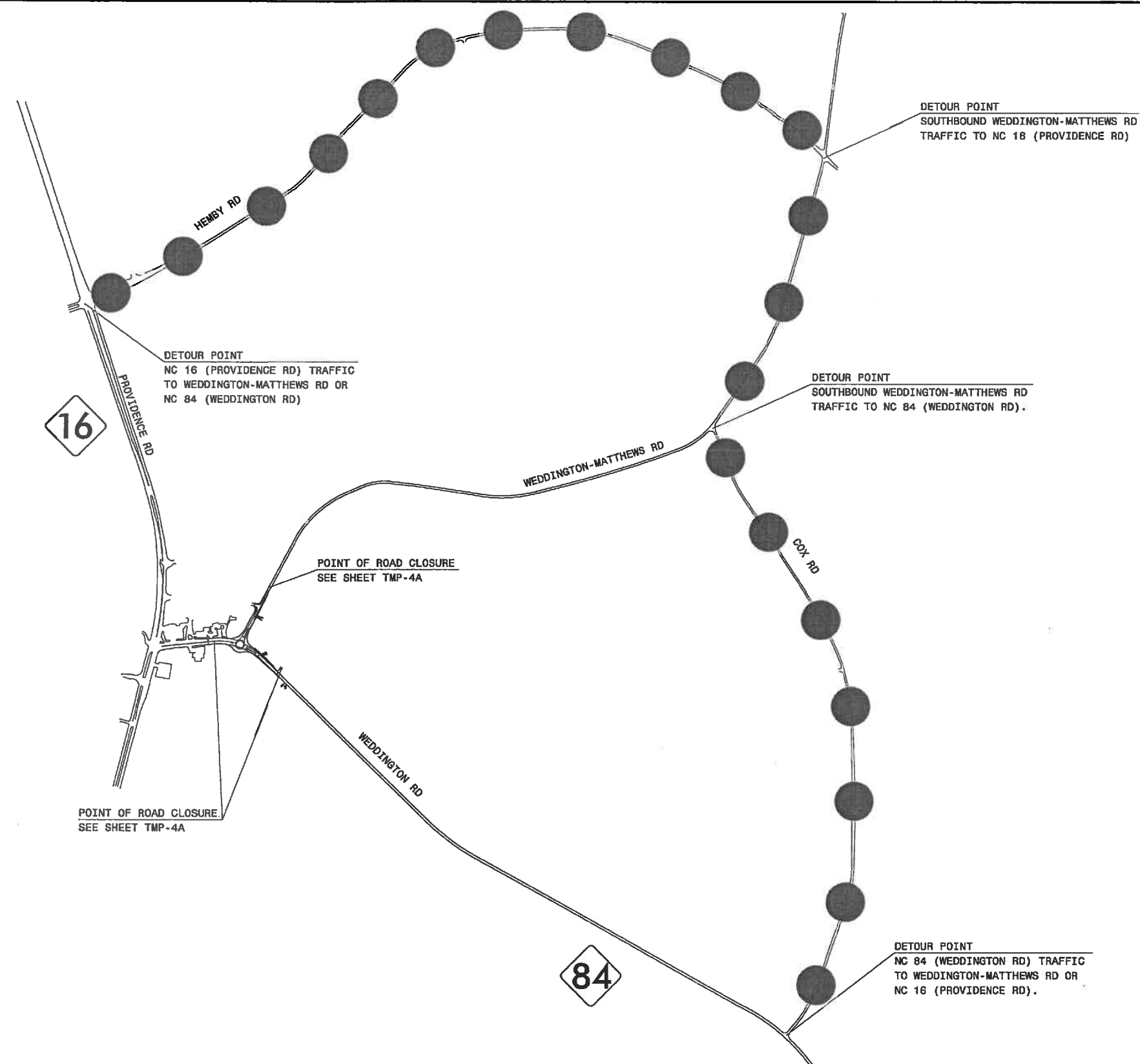
-L- POT Sta. 15+23.24
BEGIN TIP PROJECT U-5325B

MATCHLINE SEE PREVIOUS SHEET


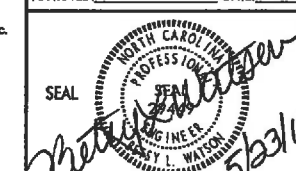
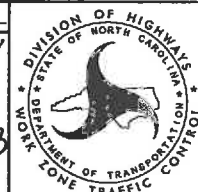
CHURCH PARKING

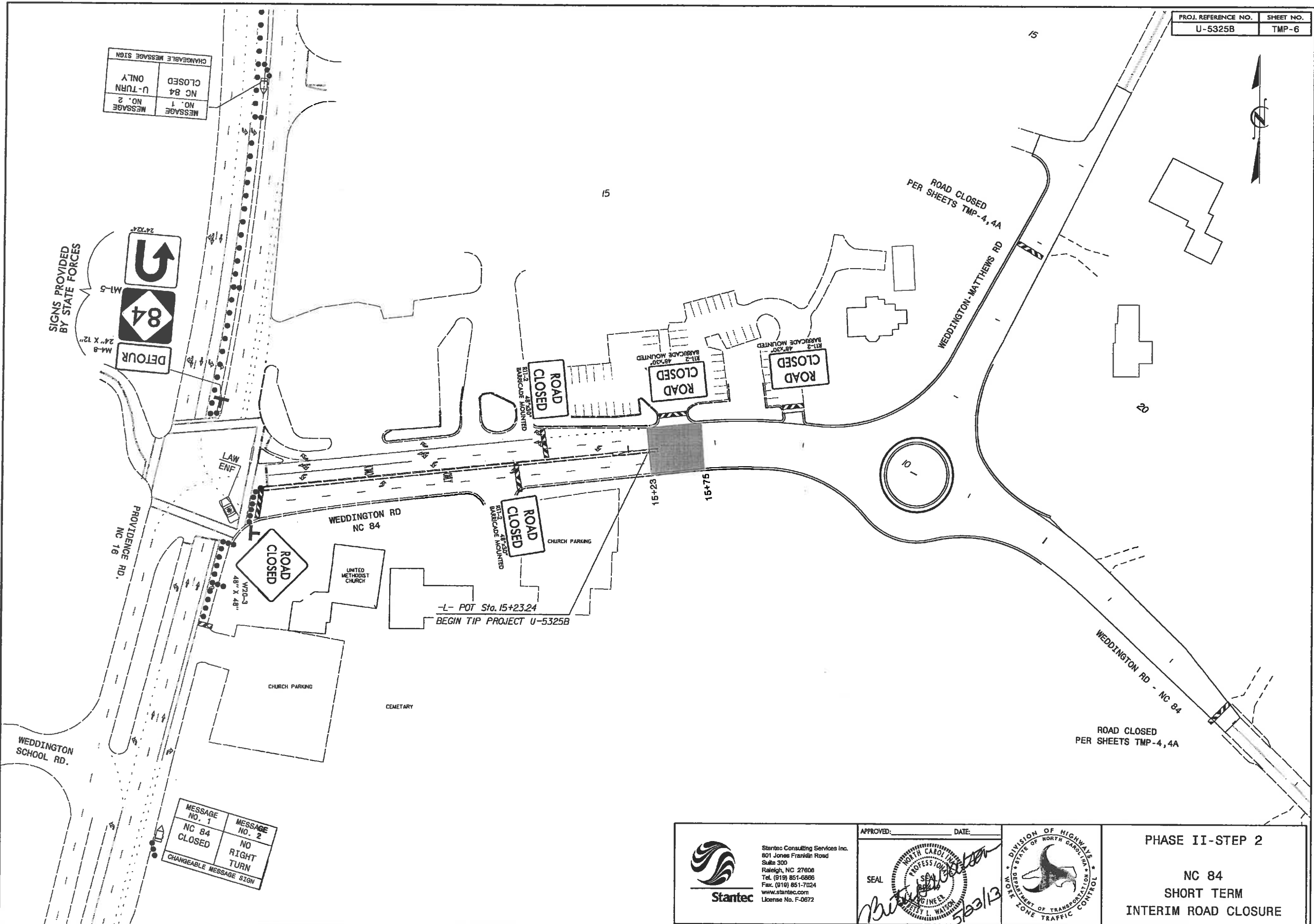
 Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672	APPROVED: _____ DATE: _____ 		PHASE I/II NC 84 & WEDDINGTON-MATTHEWS ROAD CLOSURES
	<p>ROAD CLOSED THRU TRAFFIC TO</p>		

5/23/2013
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	<p>SEAL</p>		



SIGNS PROVIDED BY STATE FORCES

DETOUR M4-8 24" X 12"

84 M1-5 24" X 12"

U-turn M4-9 24" X 12"

CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
NC 84 CLOSED	NO RIGHT TURN

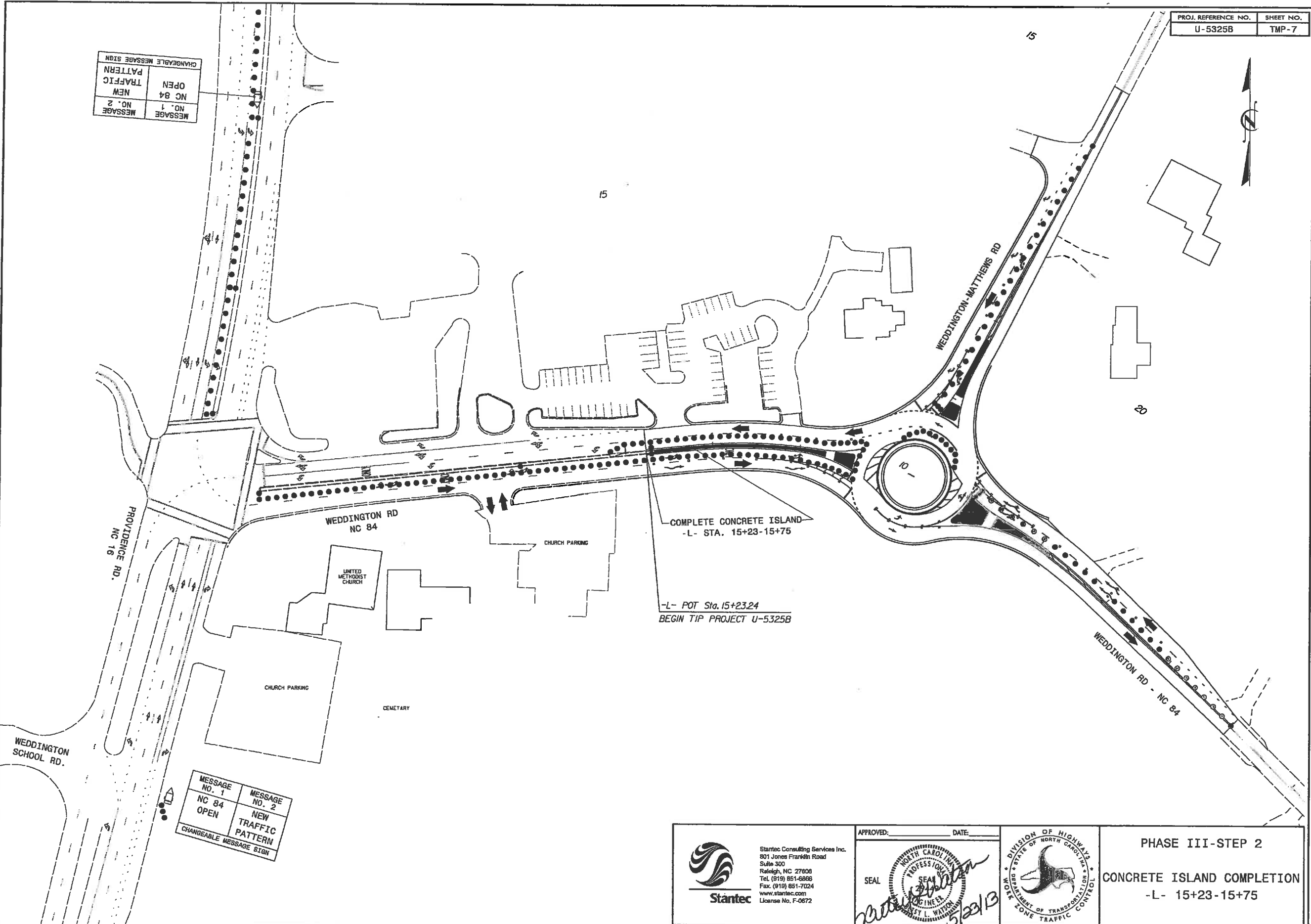
MESSAGE NO. 1	MESSAGE NO. 2
NC 84 CLOSED	NO RIGHT TURN

CHANGEABLE MESSAGE SIGN

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MESSAGE NO. 1	MESSAGE NO. 2
NC 84	NEW
OPEN	TRAFFIC
PATTERN	
CHANGEABLE MESSAGE SIGN	



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MESSAGE NO. 1	MESSAGE NO. 2
NC 84	NEW
OPEN	TRAFFIC
PATTERN	
CHANGEABLE MESSAGE SIGN	


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CONTRACT: 7000010759 T.I.P.: U-5325B

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
UNION COUNTY

PROJECT NO. U-5325B	SHEET NO. PMP-1
APPROVED: <i>Betsy L. Watson</i>	
DATE: 5/23/13	
SEAL	
	

INDEX

SHEET NO.	DESCRIPTION
PMP-1	COVER SHEET
PMP-2	PAVEMENT MARKING SCHEDULE
PMP-3	PAVEMENT MARKING PLAN

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 JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS

GENERAL NOTES

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.

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

ROAD NAME	MARKING	MARKER
NC 84 (WEDDINGTON RD.)	THERMOPLASTIC	PERMANENT RAISED
SR 1334 (WEDDINGTON MATTHEWS RD.)	THERMOPLASTIC	PERMANENT RAISED

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

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

PLAN PREPARED BY:

BETSY L. WATSON, P.E. *TRAFFIC ENGINEER*



GEORGE KARAGEORGE *WORK ZONE TRANSPORTATION DESIGN MANAGER*

REGINA CULLEN, EI *TRANSPORTATION DESIGNER*



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TIP NO.	SHEET NO.
U-5325B	PMP-2
APPROVED: <i>Petsy L. Watson</i>	
DATE: 5/23/13	
SEAL	
	
	
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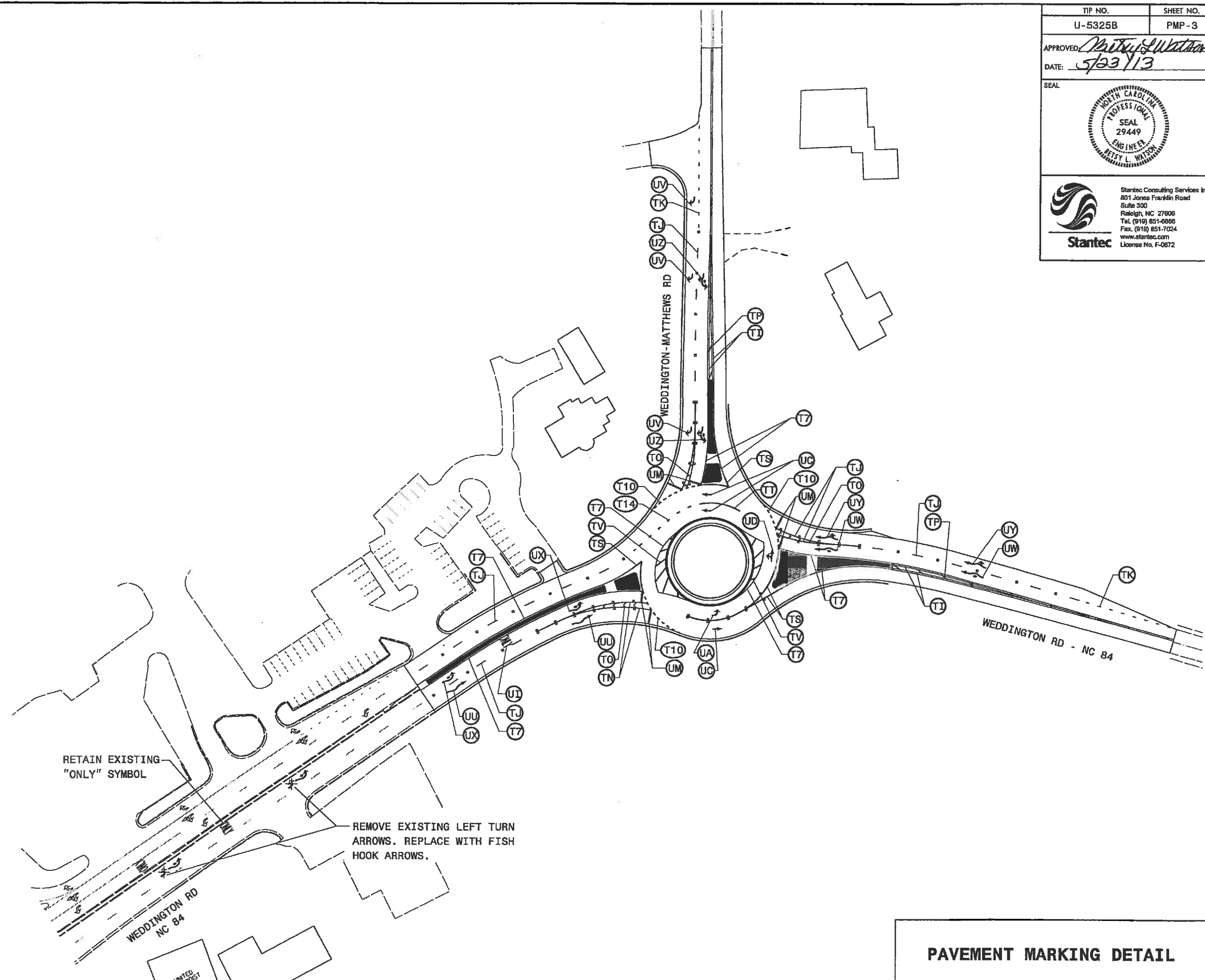
FINAL PAVEMENT MARKING SCHEDULE

<u>SYMBOL</u>	<u>DESCRIPTION</u>
<u>THERMOPLASTIC (12", 120 MILS)</u>	
T10	3 FT - 3 FT WHITE MINISKIP
T14	3 FT - 9 FT WHITE MINISKIP
TT	WHITE SOLID LANE LINE
<u>THERMOPLASTIC (12", 90 MILS)</u>	
TS	WHITE GORELINE
TV	YELLOW DIAGONAL
<u>THERMOPLASTIC (8", 90 MILS)</u>	
TN	WHITE GORELINE
TO	WHITE DIAGONAL
TP	YELLOW DIAGONAL
<u>THERMOPLASTIC (6", 120 MILS)</u>	
TJ	10 FT WHITE SKIP
TK	3 FT - 9 FT WHITE MINISKIP
<u>THERMOPLASTIC (6", 90 MILS)</u>	
T7	YELLOW EDGELINE
<u>THERMOPLASTIC (4", 120 MILS)</u>	
TI	YELLOW DOUBLE CENTER
<u>THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)</u>	
UI	ALPHANUMERIC CHAR.
<u>THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)</u>	
UA	LEFT TURN ARROW
UC	STRAIGHT ARROW
UD	COMBO. STRAIGHT/LEFT
UM	12" YIELD LINE TRIANGLE
UU	FISH-HOOK STRAIGHT ARROW
UV	FISH-HOOK RIGHT ARROW
UW	FISH-HOOK STRAIGHT ARROW WITH CIRCLE
UX	FISH-HOOK LEFT ARROW WITH CIRCLE
UY	FISH-HOOK STRAIGHT/RIGHT ARROW
UZ	FISH-HOOK LEFT/RIGHT ARROW WITH CIRCLE

PAVEMENT MARKING SCHEDULE

5/23/2013
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TIP NO. U-5325B	SHEET NO. PMP-3
APPROVED: <i>Patsy L. Watson</i>	
DATE: 5/23/13	
SEAL	
	
	
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RETAIN EXISTING
"ONLY" SYMBOL

REMOVE EXISTING LEFT TURN
ARROWS. REPLACE WITH FISH
HOOK ARROWS.

WEDDINGTON RD
NC 84

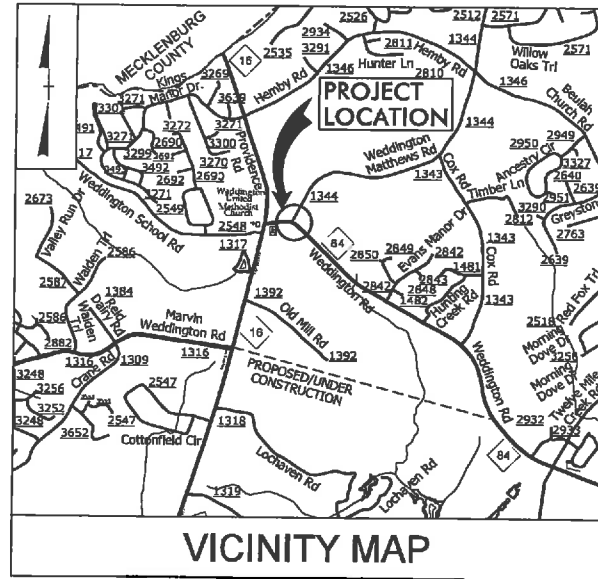
WEDDINGTON-MATTHEWS RD

WEDDINGTON RD - NC 84

PAVEMENT MARKING DETAIL

5/23/2013
 U:\Projects\TrafficControl\Plan Sheets\U-5325B.SIGN_PMP03.dgn
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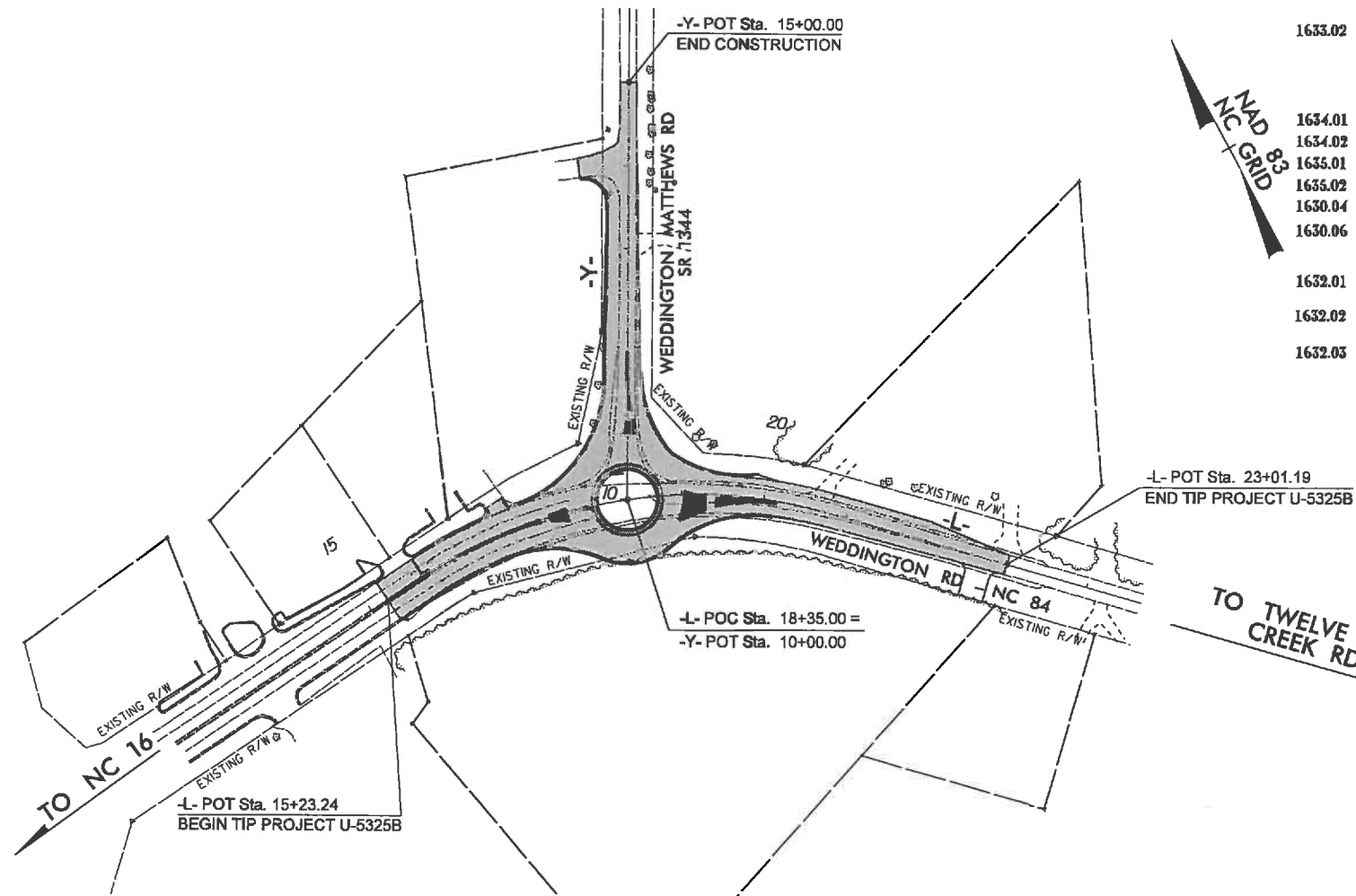
TIP PROJECT: U-5325B



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UNION COUNTY

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
LOCATION: INTERSECTION OF NC 84 (WEDDINGTON ROAD)
AND SR 1344 (WEDDINGTON MATTHEWS ROAD)



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

EROSION AND SEDIMENT CONTROL MEASURES

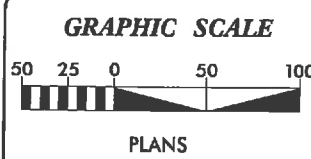
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	--- ---
1630.05	Temporary Diversion	--- --->
1605.01	Temporary Silt Fence	--- --- ---
1606.01	Special Sediment Control Fence	--- --- ---
1622.01	Temporary Berms and Slope Drains	--- --- ---
1630.02	Silt Basin Type B	--- --- ---
1633.01	Temporary Rock Silt Check Type-A	--- --- ---
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	--- --- ---
1633.02	Temporary Rock Silt Check Type-B	--- --- ---
	Wattle / Coir Fiber Wattle	--- --- ---
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	--- --- ---
1634.01	Temporary Rock Sediment Dam Type-A	--- --- ---
1634.02	Temporary Rock Sediment Dam Type-B	--- --- ---
1635.01	Rock Pipe Inlet Sediment Trap Type-A	--- --- ---
1635.02	Rock Pipe Inlet Sediment Trap Type-B	--- --- ---
1630.04	Stilling Basin	--- --- ---
1630.06	Special Stilling Basin	--- --- ---
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	--- --- ---
	Tiered Skimmer Basin	--- --- ---
	Infiltration Basin	--- --- ---

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

CHARLES W. HEAFNER, PE
LEVEL IIIA NAME

640
LEVEL IIIA CERTIFICATION NO.

CONTRACT:



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
PARSONS BRINCKERHOFF
121 WEST TRADE STREET
SUITE 1950
CHARLOTTE, NC 28202

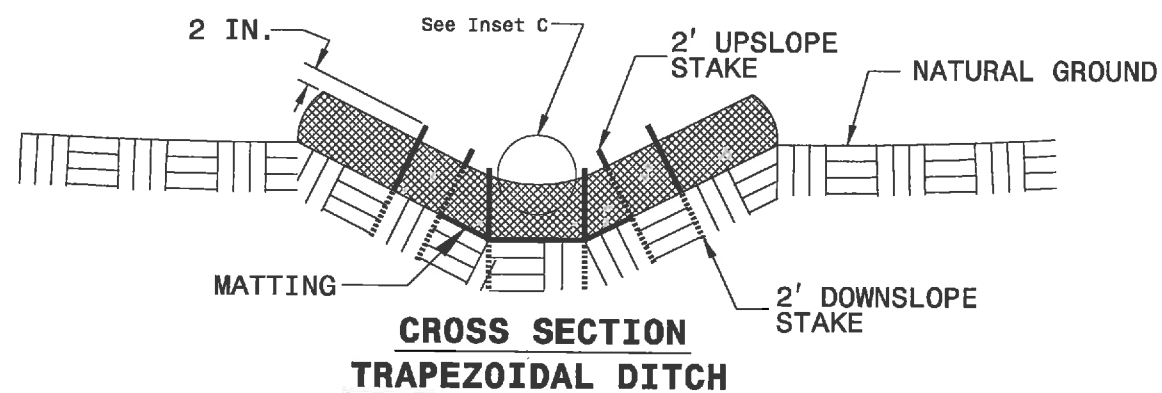
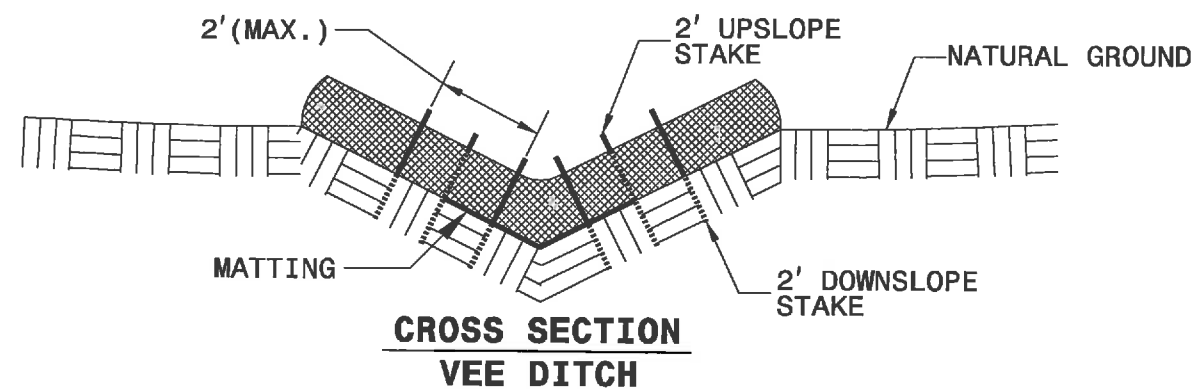
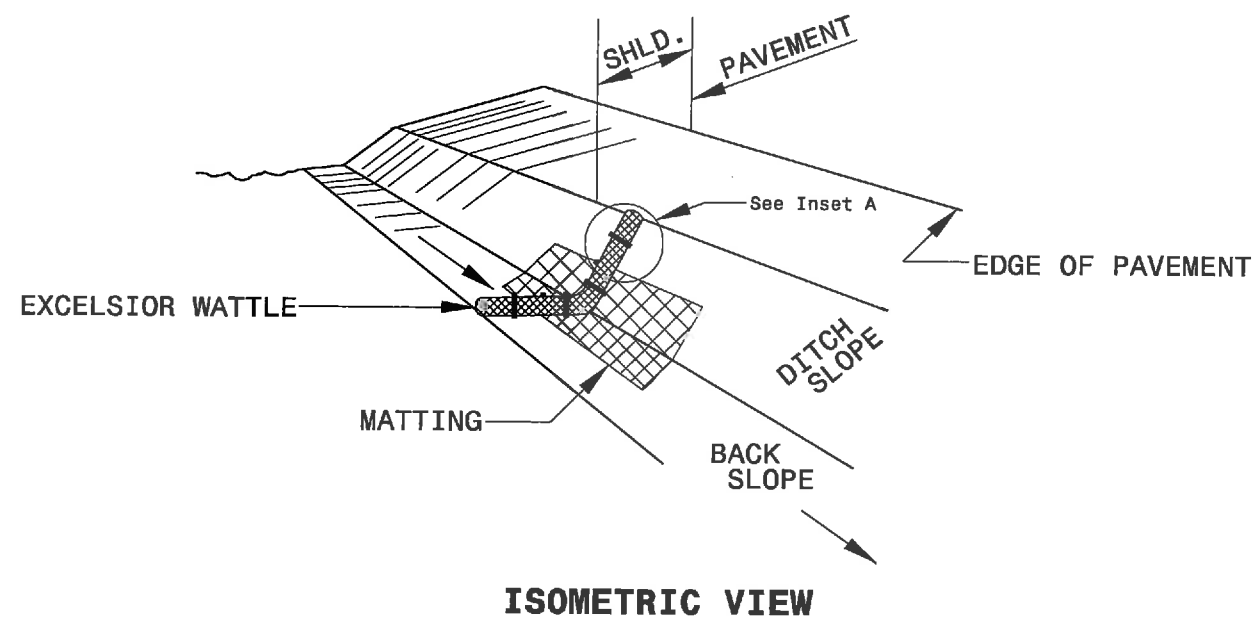
2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence
1606.01 Special Sediment Control Fence
1607.01 Gravel Construction Entrance
1622.01 Temporary Berms and Slope Drains
1631.01 Matting Installation
1632.03 Rock Inlet Sediment Trap Type C
1633.01 Temporary Rock Silt Check Type A

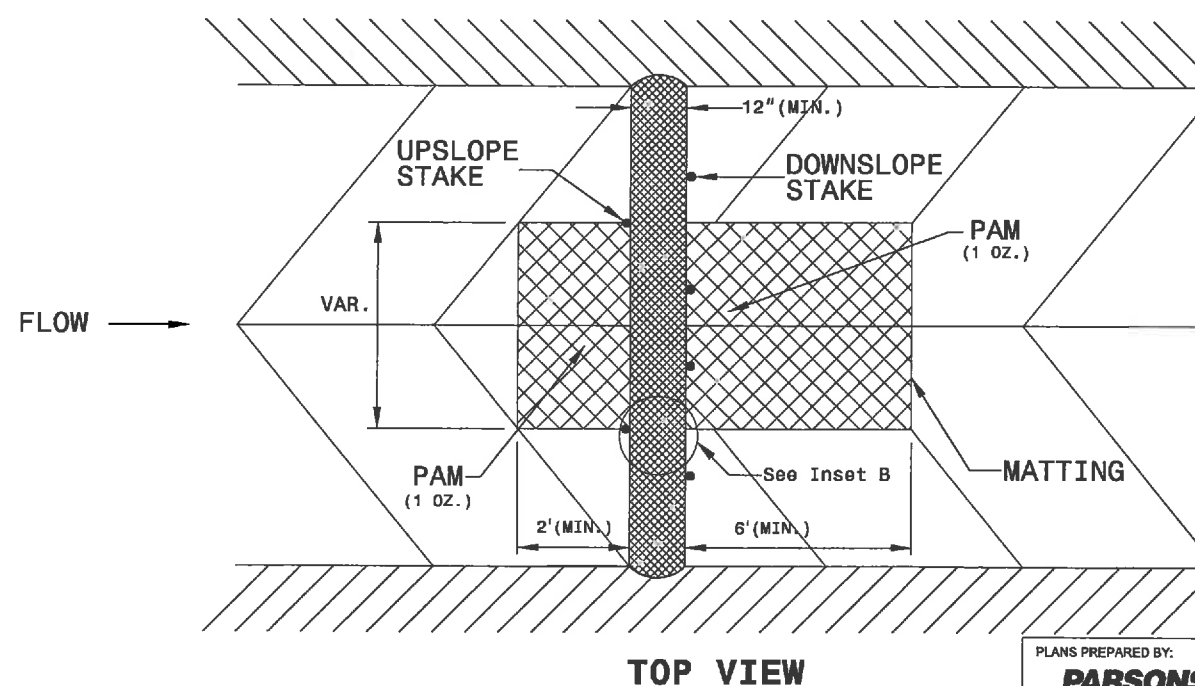
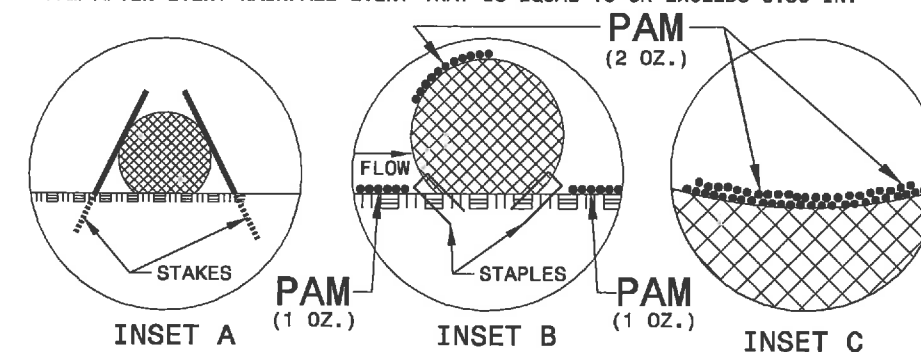
*****ACTING TIME *****
*****DATE: 08/01/2012 *****
*****USER: JHE*****

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



NOTES:

- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
- INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET
MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	20+50	22+75	LT	365
4	-L-	19+88	20+50	LT	100
4	-Y-	12+13	13+00	RT	140
4	-Y-	13+00	14+00	RT	225
				SUBTOTAL	830
	MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER				670
				TOTAL	1500
				SAY	1500

8/17/99

PROJECT REFERENCE NO. <i>U-5325B</i>	SHEET NO. <i>EC-3B</i>
RW SHEET NO.	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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 (HQW) 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 HQW ZONES.

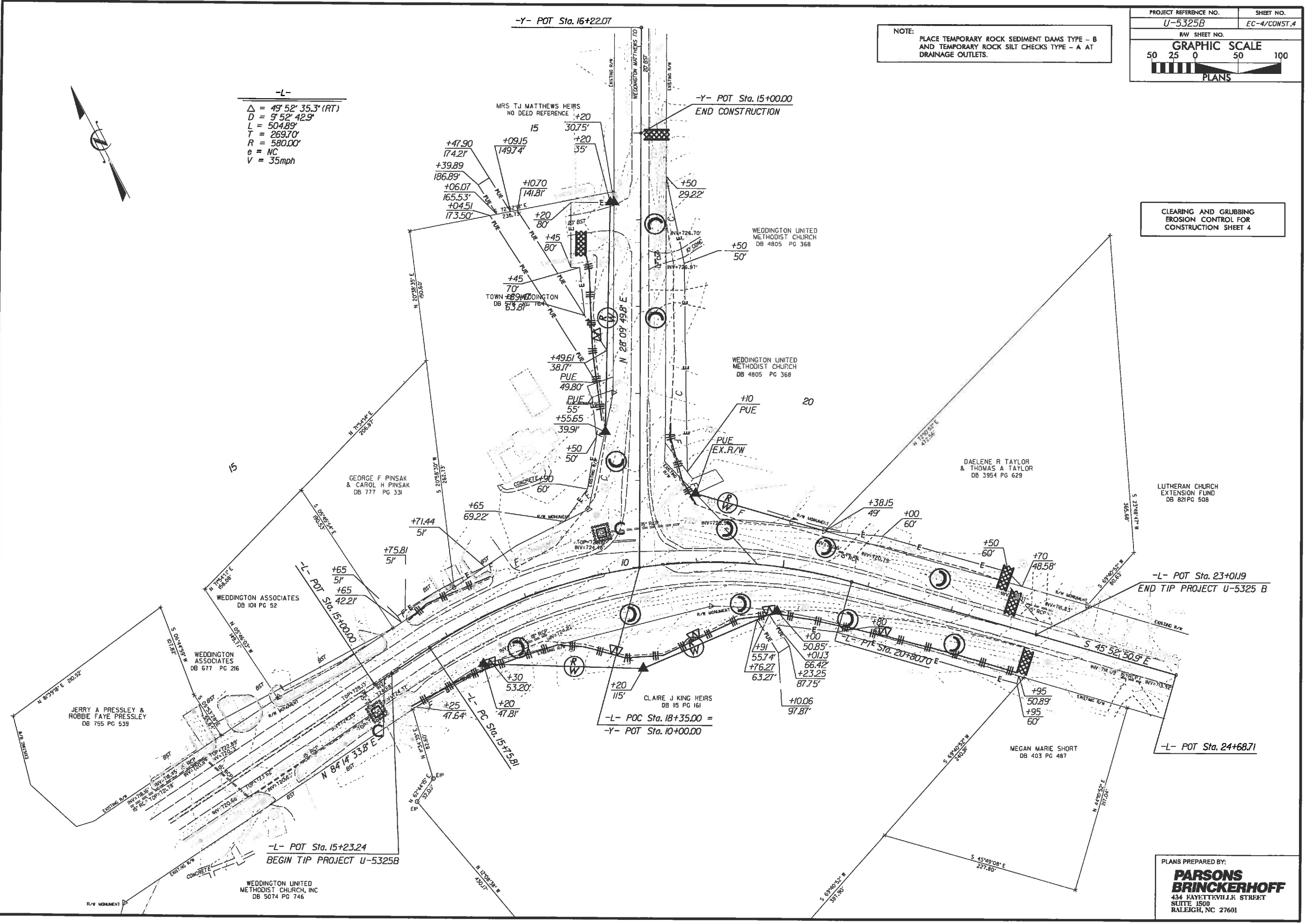
SYSTEMS
DON
SYSTEMS

B/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-5325B	EC-4/CONST.4
RAW SHEET NO.	
GRAPHIC SCALE	
50	25
0	50
100	
PLANS	

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

-L-
 $\Delta = 49^\circ 52' 35.3" (RT)$
 $D = 9' 52' 42.9"$
 $L = 504.89'$
 $T = 269.70'$
 $R = 580.00'$
 $e = NC$
 $V = 35\text{mph}$



-L- POT Sta. 23+01.19
END TIP PROJECT U-5325 B

-L- POT Sta. 24+68.71

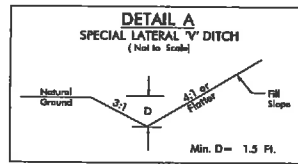
PLANS PREPARED BY:
PARSONS BRINCKERHOFF
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601

8/17/99

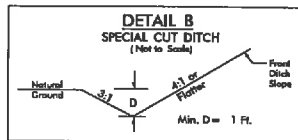
PROJECT REFERENCE NO.	SHEET NO.
U-5325B	EC-5/CONST4
RAW SHEET NO.	
GRAPHIC SCALE	
50 25 0 50 100	
PLANS	



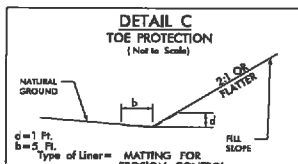
-L-
 $\Delta = 49^\circ 52' 35.3" (RT)$
 $D = 9' 52" 42.9"$
 $L = 504.89'$
 $T = 269.70'$
 $R = 580.00'$
 $e = NC$
 $V = 35\text{mph}$



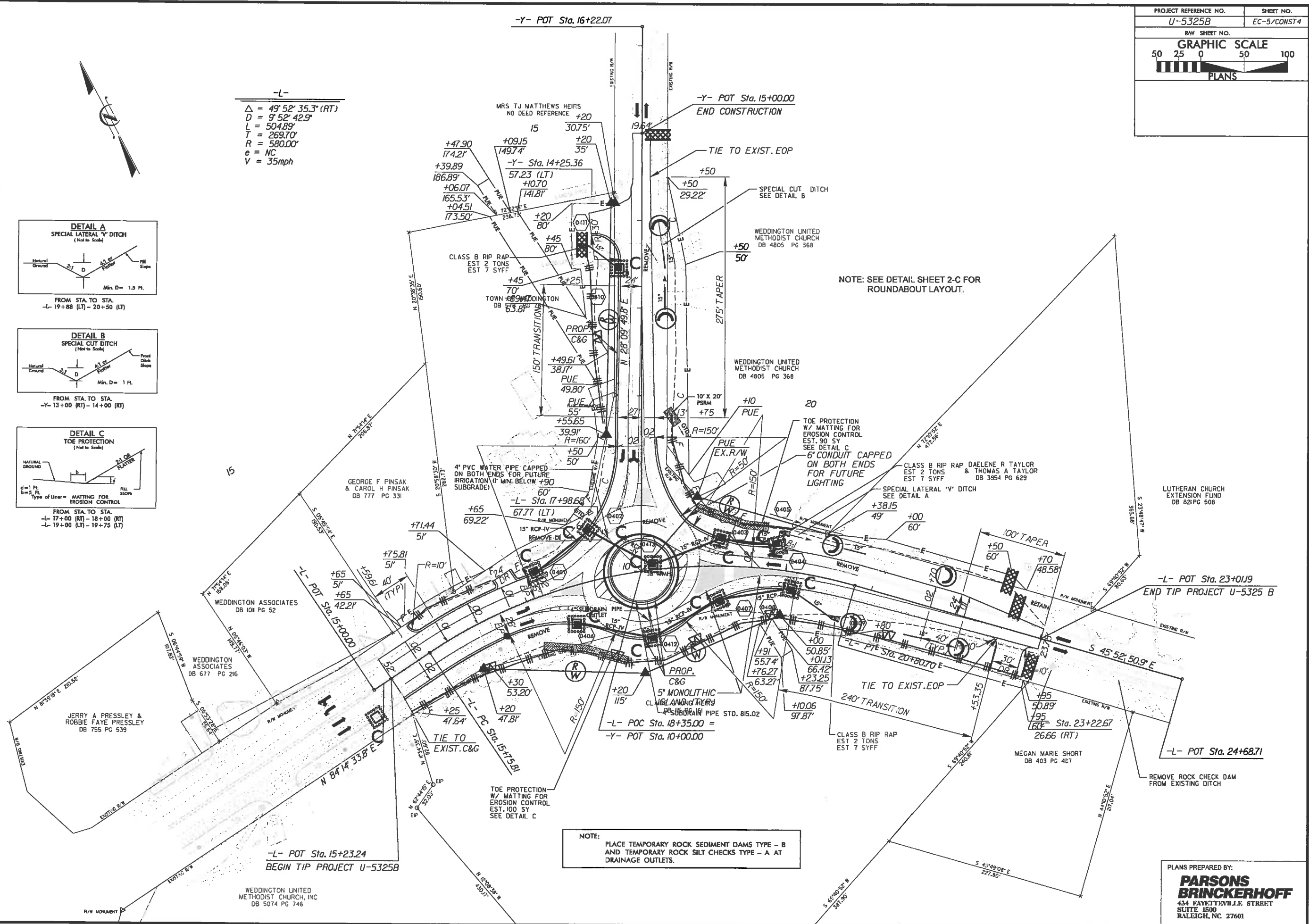
FROM STA. TO STA.
 -L- 19+88 (LT) - 20+50 (LT)



FROM STA. TO STA.
 -Y- 13+00 (RT) - 14+00 (RT)



FROM STA. TO STA.
 -L- 17+00 (RT) - 18+00 (RT)
 -L- 19+00 (LT) - 19+75 (LT)



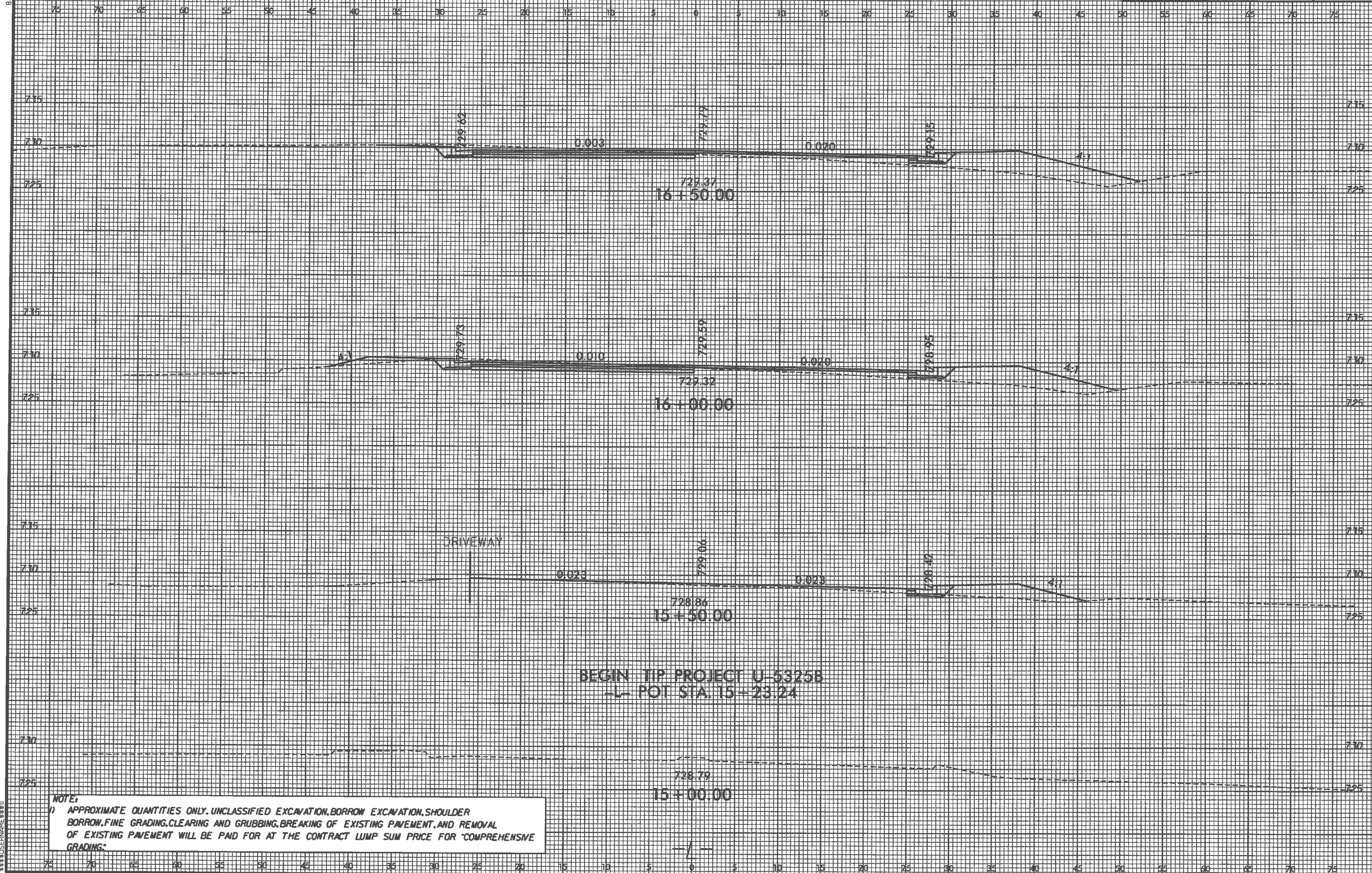
NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

PLANS PREPARED BY:
**PARSONS
 BRINCKERHOFF**
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601

8/23/95

0 2.5 5

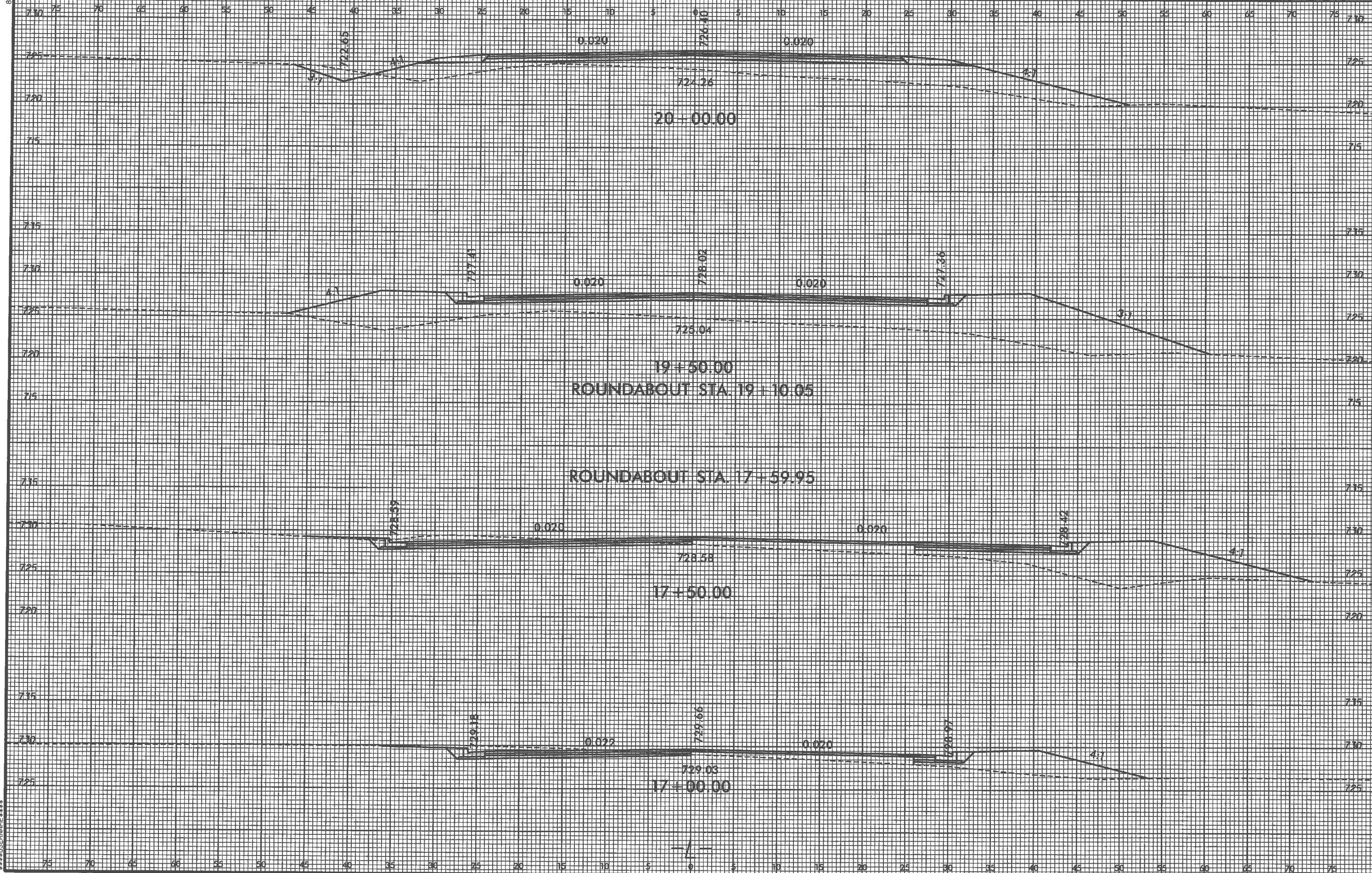
PROJ. REFERENCE NO. U-5325B SHEET NO. X-1



NOTE:
 1) APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, SHOULDER BORROW, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "COMPREHENSIVE GRADING."

BEGIN TIP PROJECT U-5325B
 - POT STA. 15-23.24

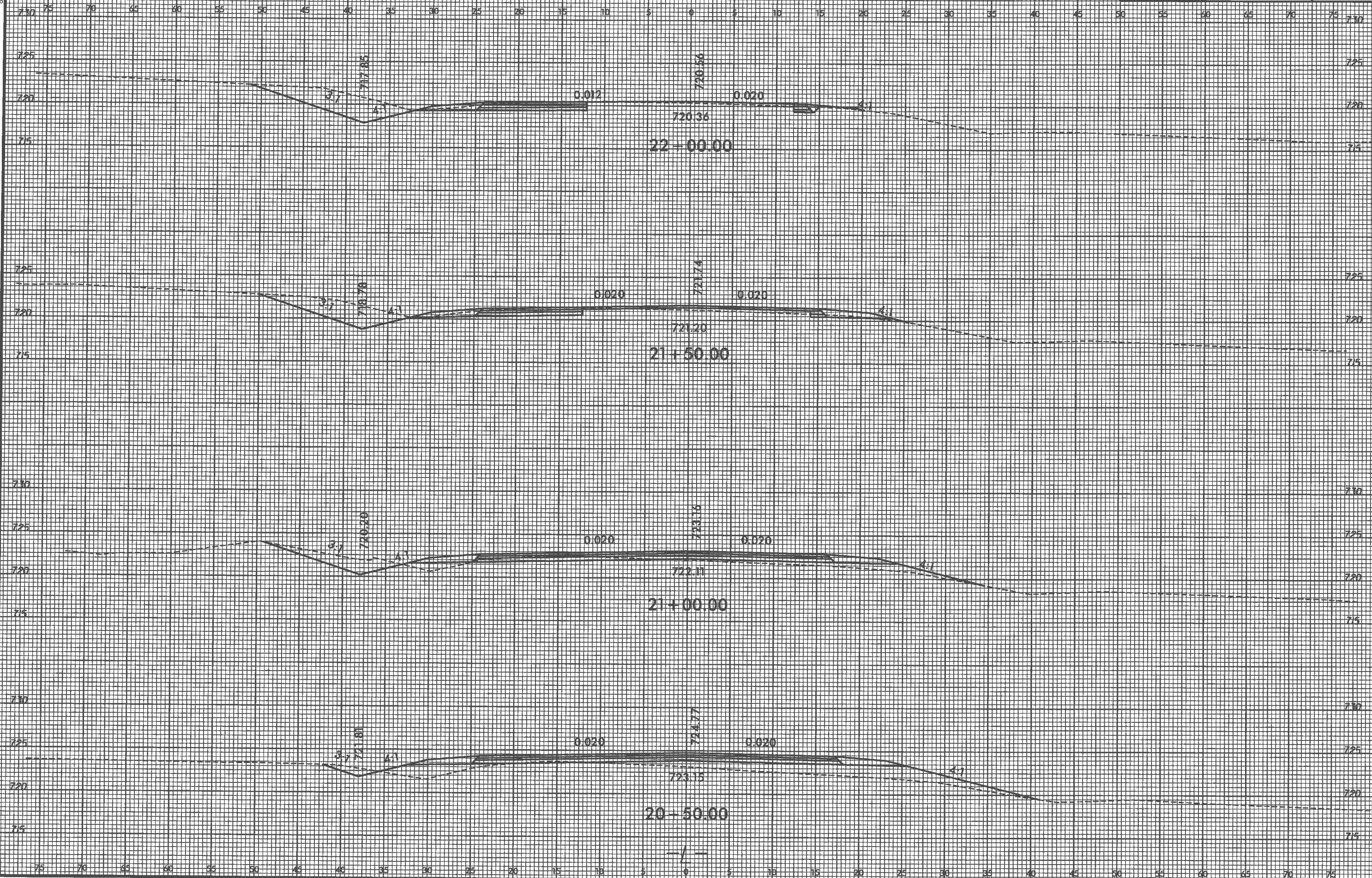
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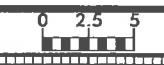


PROJ. REFERENCE NO.	SHEET NO.
U-5325B	X-3

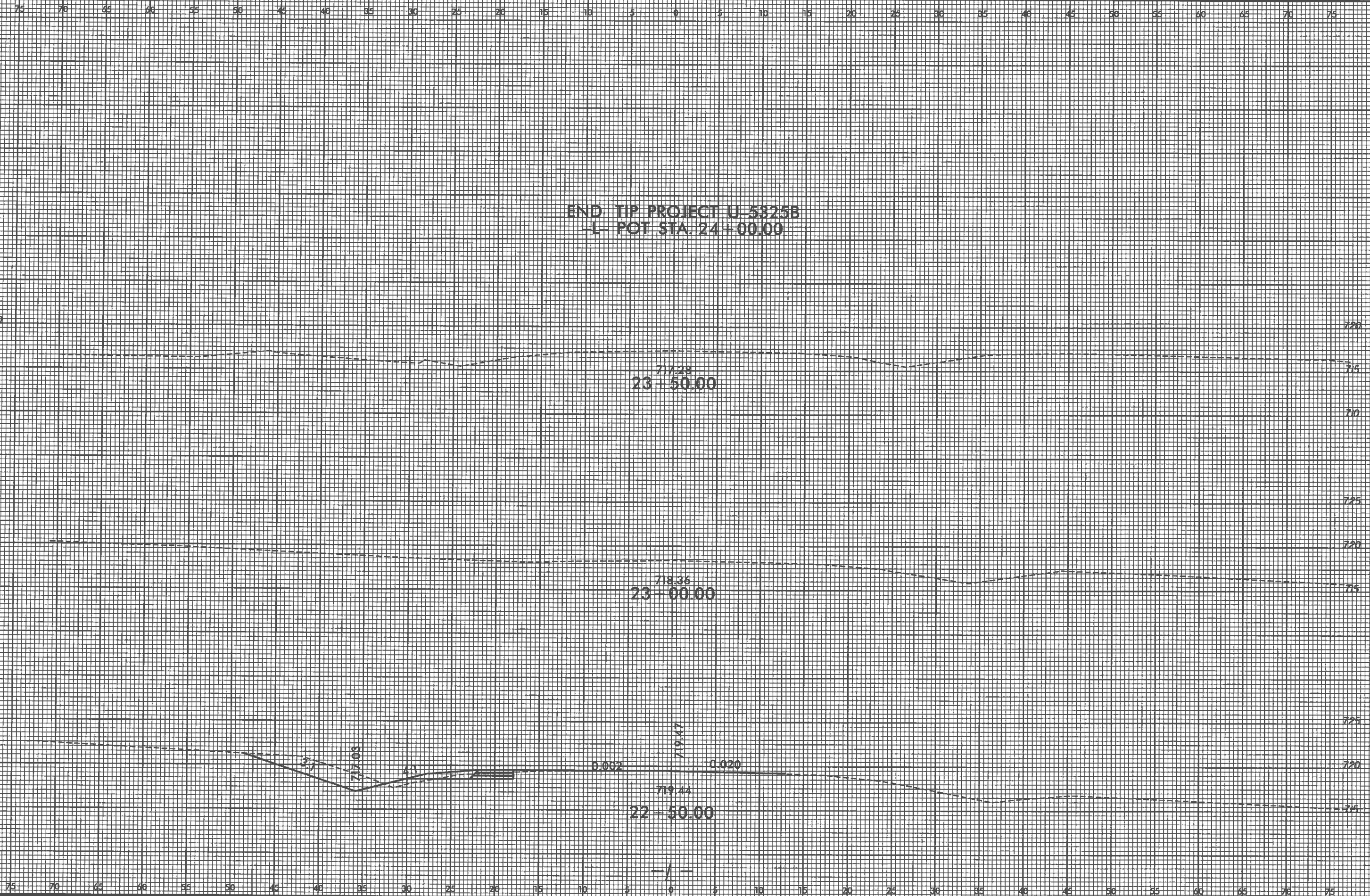


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 9:11:02 AM *****
 9/11/99 *****
 USER: JLDON *****
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 PLOT: 75 *****

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-5325B	X-4



END TIP PROJECT U-5325B
-L- POT STA. 24+00.00

717.28
23+50.00

718.36
23+00.00

719.44
22+50.00

3.7
717.05

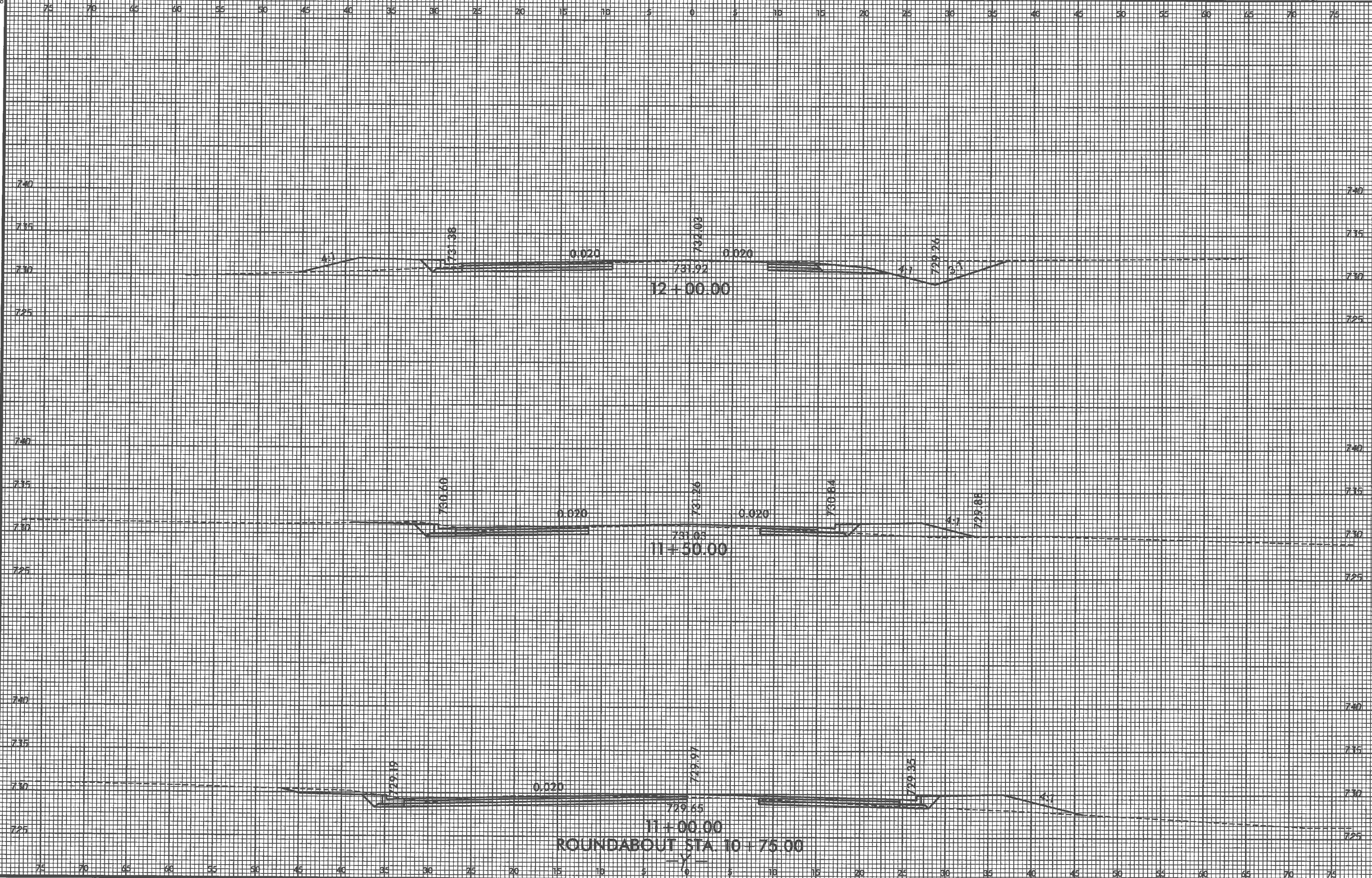
4.1

0.002

0.020

19.07

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\$\$\$\$\$AUGUST 23 1999\$\$\$\$\$
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\$\$\$\$\$PLOT: 1\$\$\$\$\$
\$\$\$\$\$END\$\$\$\$\$

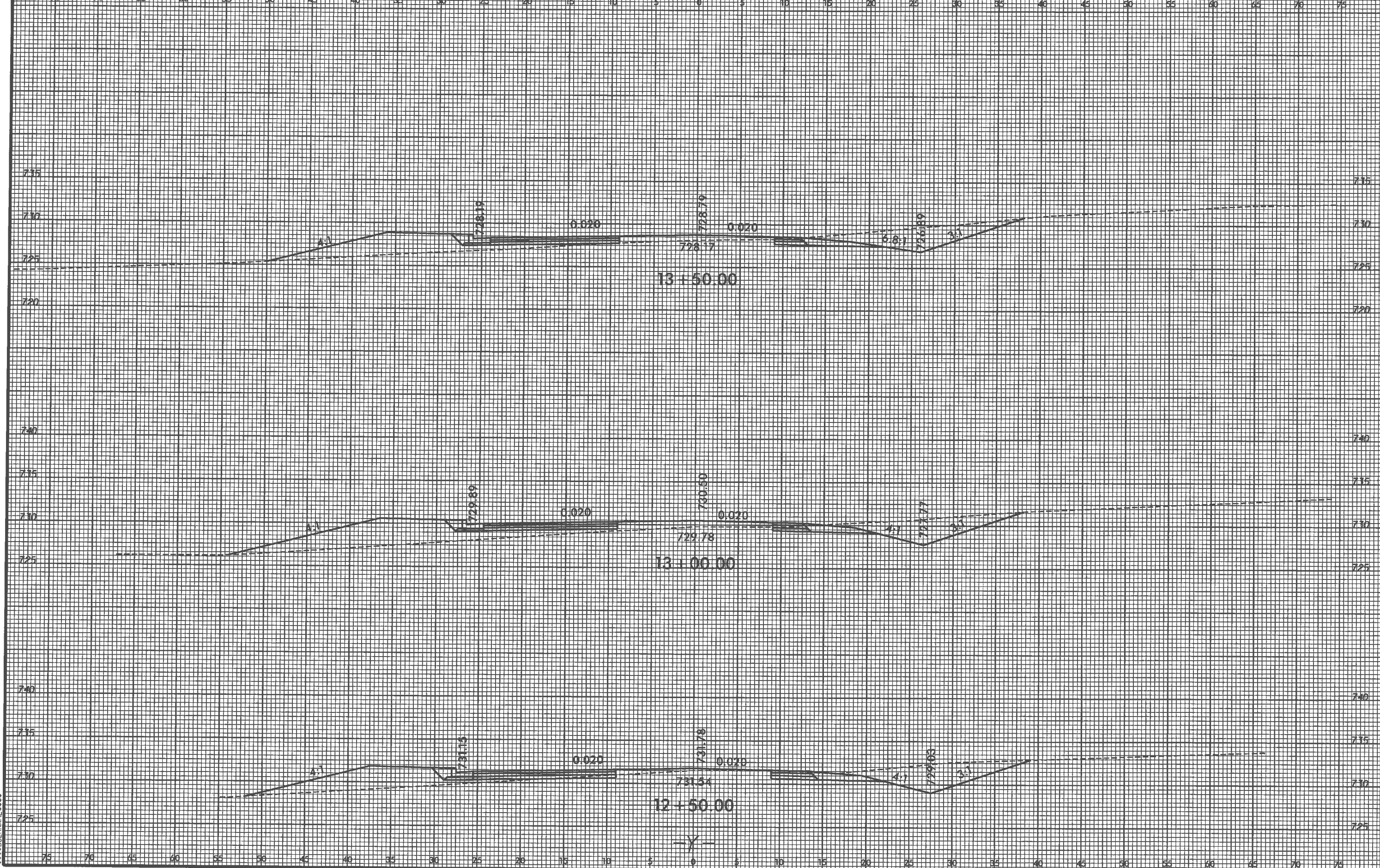


8/23/99
SYTIME
PLANNING
DESIGN
CONSTRUCTION

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
U-5325B	X-6



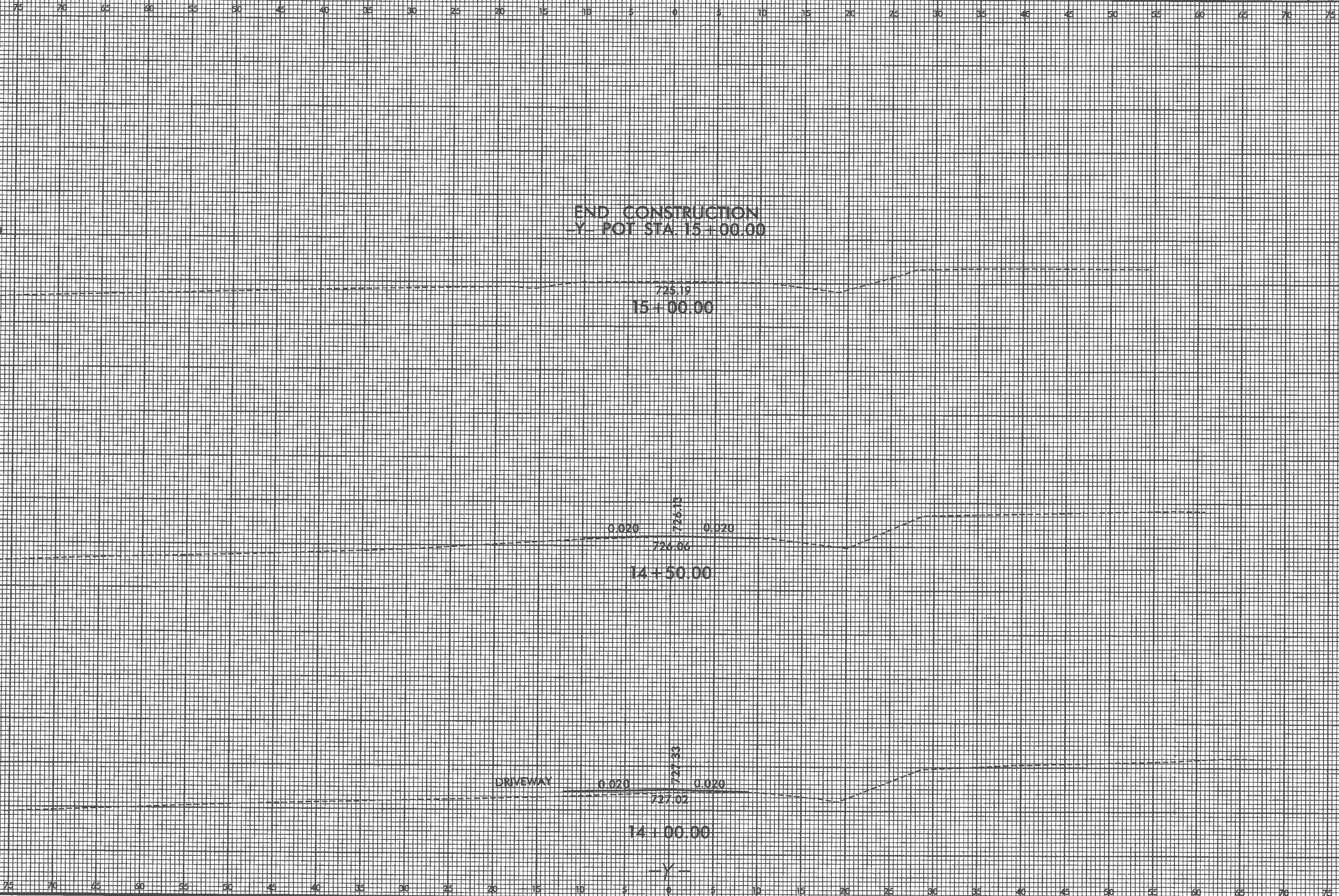
 SYSTEM NAME *****
 USER NAME *****
 DATE *****

8/23/99



PROJ. REFERENCE NO.
U-5325B

SHEET NO.
X-7



END CONSTRUCTION
-Y- POT STA. 15+00.00

725.19
15+00.00

0.020
724.86
0.020

14+50.00

DRIVEWAY

0.020
727.02
0.020

14+00.00

-Y-

*****SYTIME*****
*****SITE CONDITIONS*****
*****USE FRAME*****