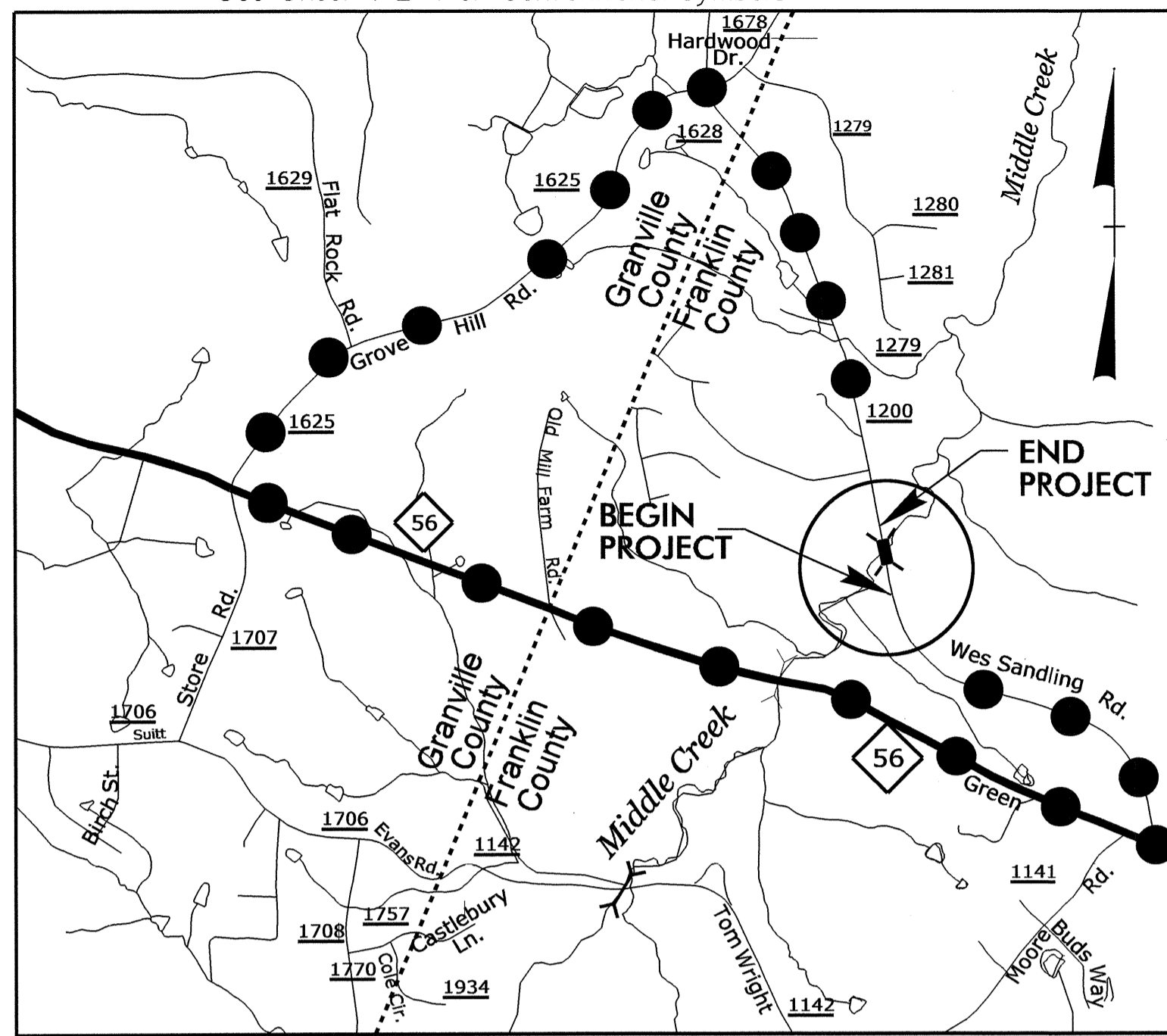


09/08/13

See Sheet 1-A For Index of Sheets  
See Sheet 1-B For Conventional Symbols



VICINITY MAP  
●—●—● OFF-SITE DETOUR

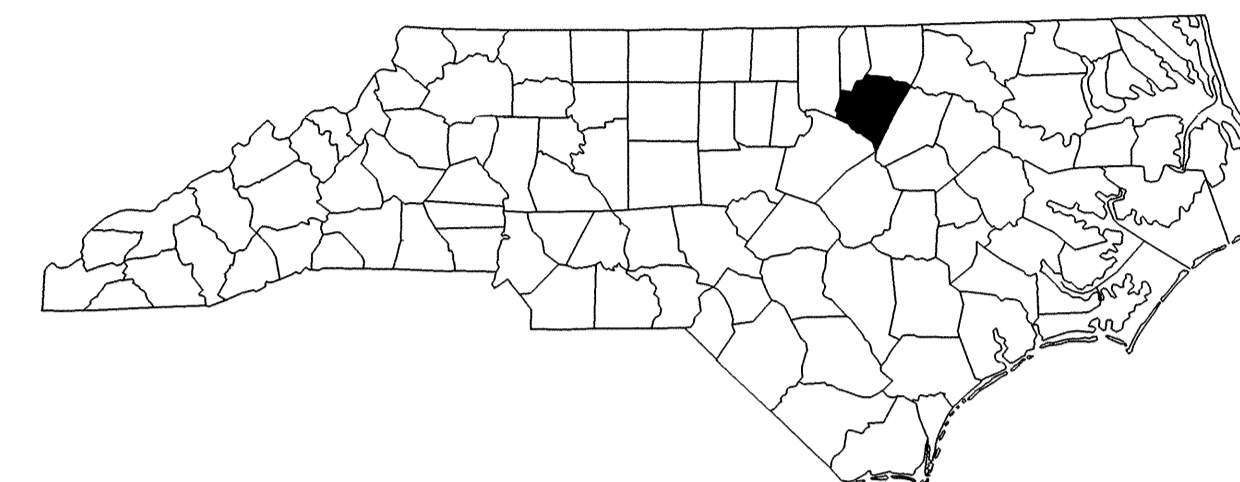
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# FRANKLIN COUNTY

LOCATION: BRIDGE NO. 27 OVER MIDDLE CREEK  
ON SR 1200 (WES SANDLING RD.)

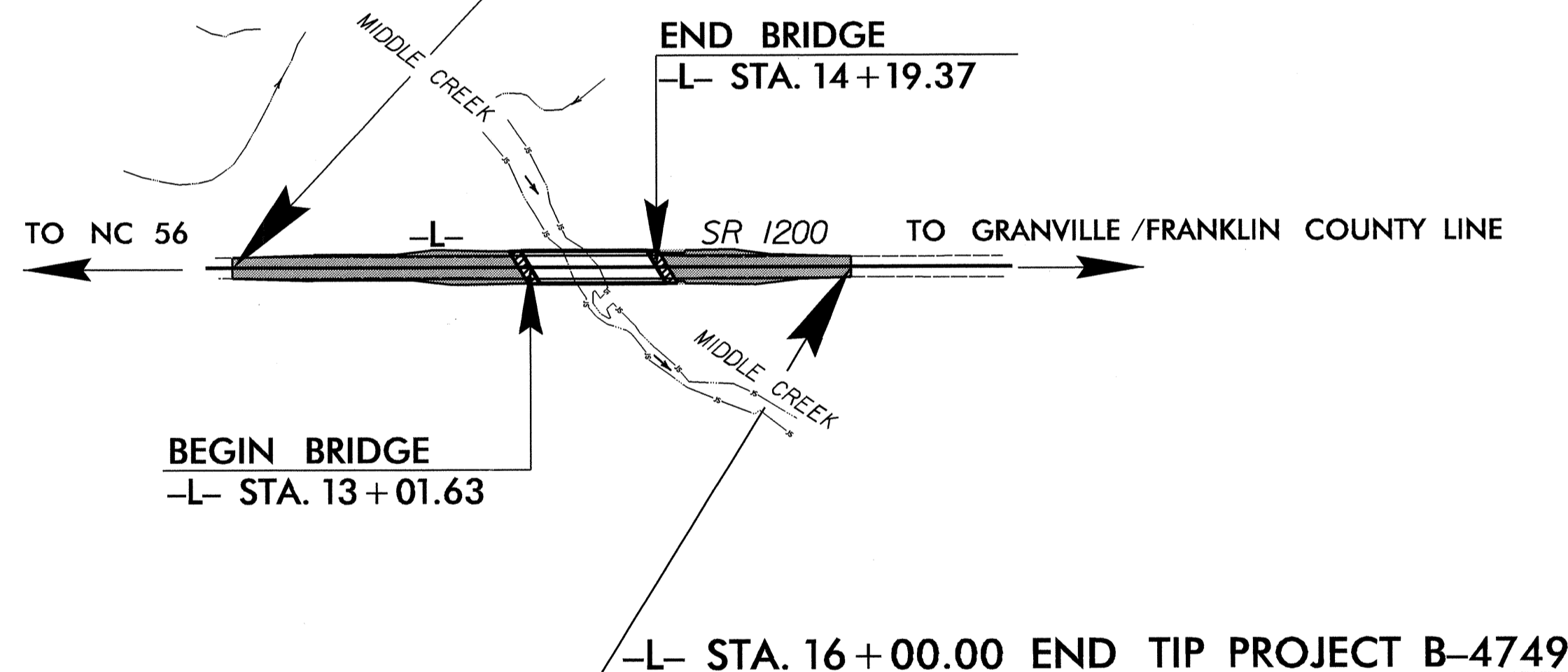
TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4749	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38521.1.1	BRZ-1200(5)	P.E.	
38521.2.1	BRZ-1200(5)	RW & UTIL.	
38521.3.FD1	BRZ-1200(5)	CONST.	



4

-L- STA. 10+25.00 BEGIN TIP PROJECT B-4749



TIP PROJECT: B-4749

CONTRACT: C203259

### GRAPHIC SCALES



### DESIGN DATA

ADT 2013 = 770 VPD  
 ADT 2033 = 1,070 VPD  
 DHV = 10 %  
 D = 60 %  
 \* T = 3 %  
 V = 60 MPH  
 \* (TTST 1% + DUAL 2%)  
 FUNC. CLASS. = RURAL LOCAL  
 SUBREGIONAL TIER

### PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4749 = 0.087 MILE  
 LENGTH STRUCTURE TIP PROJECT B-4749 = 0.022 MILE  
 TOTAL LENGTH TIP PROJECT B-4749 = 0.109 MILE

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

2012 STANDARD SPECIFICATIONS

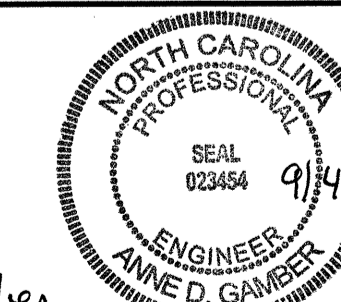
RIGHT OF WAY DATE:  
 NOVEMBER 29, 2012

LETTING DATE:  
 NOVEMBER 19, 2013

TONY HOUSER, PE  
 PROJECT ENGINEER

JEFFREY L. TEAGUE, PE  
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

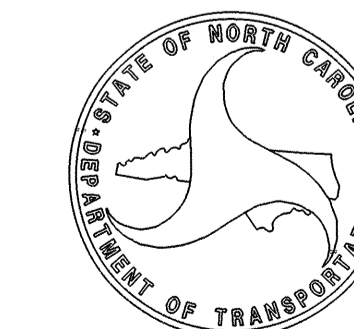


SIGNATURE: Anne D. Comber

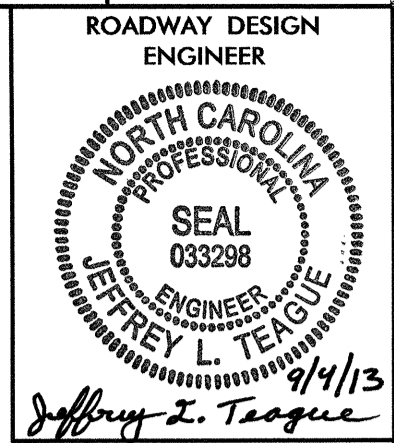
ROADWAY DESIGN ENGINEER



SIGNATURE: Jeffrey L. Teague 9/4/13



20-AUG-2013 19:48  
F:\Roadway\Proj\B4749-RdY-1-sh.dgn  
\$\$\$\$\$USERNAME\$\$\$\$\$



**INDEX OF SHEETS**

**GENERAL NOTES**

**2012 ROADWAY ENGLISH STANDARD DRAWINGS**

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C THRU 1-D	SURVEY CONTROL SHEETS
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, WEDGING DETAIL AND DETAIL SHOWING SHOULDER BERM GUTTER (SBG) ON TOP OF SUBGRADE
2-A	DETAIL OF STRUCTURE ANCHOR UNITS
3	SUMMARY OF QUANTITIES
3-A	GUARDRAIL SUMMARY, SUMMARY OF EARTHWORK, ASPHALT PAVEMENT REMOVAL SUMMARY AND SHOULDER BERM GUTTER SUMMARY
3-B	SUMMARY OF DRAINAGE QUANTITIES
4	PLAN SHEET
5	PROFILE SHEET
TMP-1 THRU TMP-3	TRANSPORTATION MANAGEMENT PLANS
PMP-1	PAVEMENT MARKING PLAN
EC-1 THRU EC-5	EROSION CONTROL PLANS
RF-1	REFORESTATION DETAIL SHEET
SIGN-1 THRU SIGN-2	SIGNING PLANS
X-1A	CROSS-SECTION SUMMARY SHEET
X-1 THRU X- 7	CROSS-SECTIONS
S-1 THRU S-18	STRUCTURE PLANS

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

**GRADE LINE:  
GRADING AND SURFACING:**

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED 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 III.

**SUPERELEVATION:**

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. 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.

**GUARDRAIL:**

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

**TEMPORARY SHORING:**

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

**SUBSURFACE PLANS:**

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

**END BENTS:**

THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

**UTILITIES:**

UTILITY OWNERS ON THIS PROJECT ARE WAKE ELECTRIC AND CENTURY LINK.

**RIGHT-OF-WAY MARKERS:**

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

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
<b>DIVISION 2 - EARTHWORK</b>	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
<b>DIVISION 3 - PIPE CULVERTS</b>	
300.01	Method of Pipe Installation
<b>DIVISION 4 - MAJOR STRUCTURES</b>	
422.11	Reinforced Bridge Approach Fills - Sub Regional Tier
<b>DIVISION 5 - SUBGRADE, BASES AND SHOULDERS</b>	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
<b>DIVISION 8 - INCIDENTALS</b>	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
840.00	Concrete Base Pad for Drainage Structures
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.29	Frames and Narrow Slot Flat Grates
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.46	Traffic Bearing Precast Drainage Structure
846.01	Concrete Curb, Gutter and Curb & Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
862.01	Guardrail Placement
862.02	Guardrail Installation

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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS

*Note: Not to Scale*

\*S.U.E. = *Subsurface Utility Engineering*

**BOUNDARIES AND PROPERTY:**

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Property Corner	✕
Property Monument	□ EOM
Parcel/Sequence Number	⑫③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	- - - - - WLB
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ?

**BUILDINGS AND OTHER CULTURE:**

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	⊕
Building	▭
School	▭ S
Church	▭ C
Dam	▭ D

**HYDROLOGY:**

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

**RAILROADS:**

Standard Gauge	----- CSX TRANSPORTATION
RR Signal Milepost	○ MILEPOST 35
Switch	□ 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	○ RW
Proposed Right of Way Line with Iron Pin and Cap Marker	○ RW
Proposed Right of Way Line with Concrete or Granite Marker	○ RW
Existing Control of Access	○ CA
Proposed Control of Access	○ CA
Existing Easement Line	----- E
Proposed Temporary Construction Easement	----- E
Proposed Temporary Drainage Easement	----- TDE
Proposed Permanent Drainage Easement	----- PDE
Proposed Permanent Drainage / Utility Easement	----- DUE
Proposed Permanent Utility Easement	----- PUE
Proposed Temporary Utility Easement	----- TUE
Proposed Aerial Utility Easement	----- AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

**ROADS AND RELATED FEATURES:**

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	○ CR
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	----- Vineyard

**EXISTING STRUCTURES:**

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

**UTILITIES:**

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

**TELEPHONE:**

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

**WATER:**

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

**TV:**

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

**GAS:**

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

**SANITARY SEWER:**

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

**MISCELLANEOUS:**

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	□ S
Utility Unknown U/G Line	----- ZUL
U/G Tank; Water, Gas, Oil	▭
Underground Storage Tank, Approx. Loc.	⊕ UST
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.

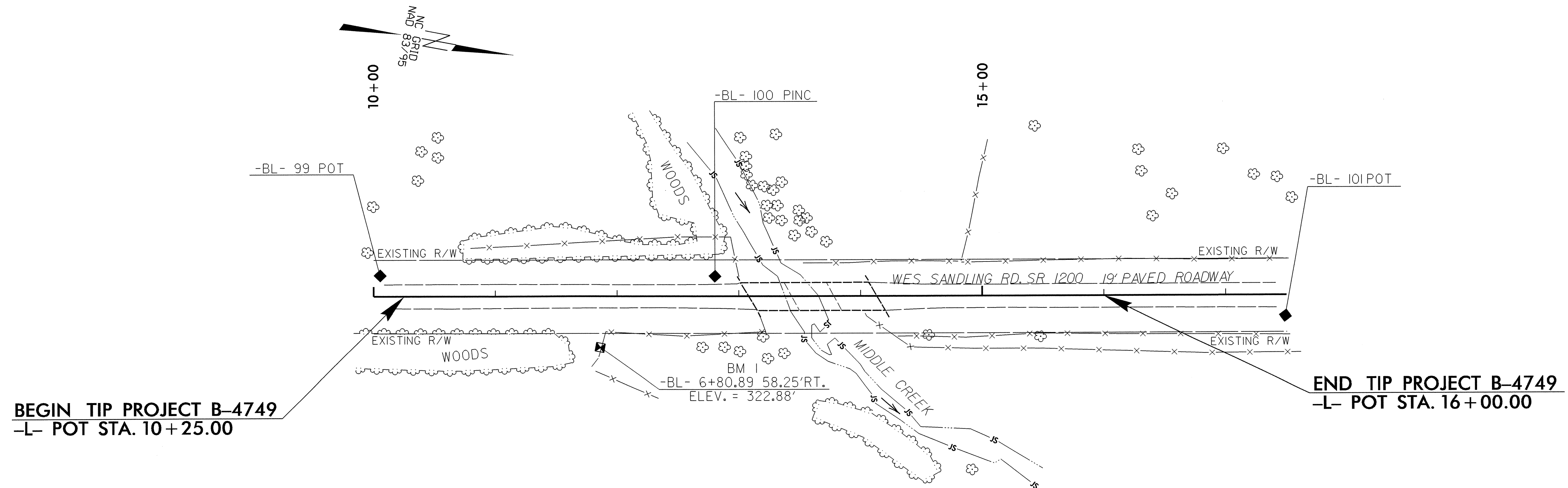
# SURVEY CONTROL SHEET B-4749

### BASELINE DATA

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
99	BL-99	864851.3810	2144893.8690	326.03	10+05.240	17.26 LT
100	BL-100	865121.9140	2144843.5770	317.12	12+80.407	16.59 LT
101	BL-101	865588.2550	2144789.3080	323.69	17+48.733	16.42 RT

### BENCHMARK DATA

\*\*\*\*\*  
 4000 ELEVATION = 322.88  
 N 865040 E 2144918  
 L STATION 11+86.000 42 RIGHT  
 BM \*1 RR SPIKE IN BASE OF 12" PINE  
 58.25' RT. OF BL STA 6+80.89  
 \*\*\*\*\*



**BEGIN TIP PROJECT B-4749**  
 -L- POT STA. 10+25.00

**END TIP PROJECT B-4749**  
 -L- POT STA. 16+00.00

### DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS B4749-2" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF  
 NORTHING: 866135.768(±) EASTING: 2144688.070(±)  
 ELEVATION: 345.69(±)  
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99997865  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4749-2" TO -L- STATION 10+00.00 IS  
 S 09°51'59.3" E 1305.65'  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88

### NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:  
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/)  
 THE FILES TO BE FOUND ARE AS FOLLOWS:  
 B4749\_LS\_CONTROL.TXT  
 SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- ◆ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.  
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.  
 NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

NOTE: DRAWING NOT TO SCALE

# SURVEY CONTROL SHEET B-4749

## ROW MARKER CONCRETE OR GRANITE

ALIGN	STATION	OFFSET	NORTH	EAST
L	10+25.00	-50.00	864864.7374	2144858.0328
L	10+25.00	-30.00	864868.4403	2144877.6870
L	10+25.00	30.00	864879.5492	2144936.6496
L	10+25.00	50.00	864883.2522	2144956.3038
L	16+00.00	50.00	865448.3108	2144849.8438
L	16+00.00	30.00	865444.6078	2144830.1896
L	16+00.00	-30.00	865433.4990	2144771.2269
L	16+00.00	-50.00	865429.7960	2144751.5727

## ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	14+15.00	-60.00	865246.1430	2144775.9980
L	14+15.00	-50.00	865247.9945	2144785.8251
L	14+57.00	-60.00	865287.4169	2144768.2218
L	14+57.00	-50.00	865289.2684	2144778.0489

## L

TYPE	STATION	NORTH	EAST
POT	10+00.00	864849.4270	2144911.7970
POT	17+50.00	865586.4600	2144772.9361

### DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS B4749-2"  
 WITH NAD 83/95 STATE PLANE GRID COORDINATES OF  
 NORTHING: 866135.768(ft) EASTING: 2144688.070(ft)  
 ELEVATION: 345.69(ft)  
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99997865  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4749-2" TO -L- STATION 10+00.00 IS  
 S 09°51'59.3" E 1305.65'  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88

### NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:  
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/doh/preconstruct/highway/location/project/)

THE FILES TO BE FOUND ARE AS FOLLOWS:  
 B4749\_LS\_CONTROL.TXT

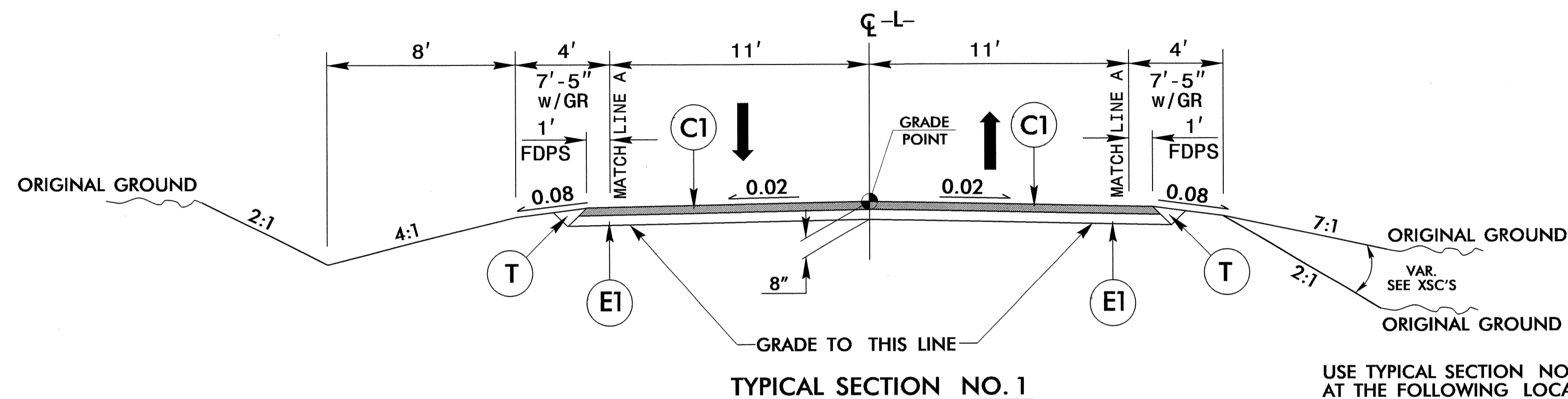
SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

◆ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.  
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.  
 NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

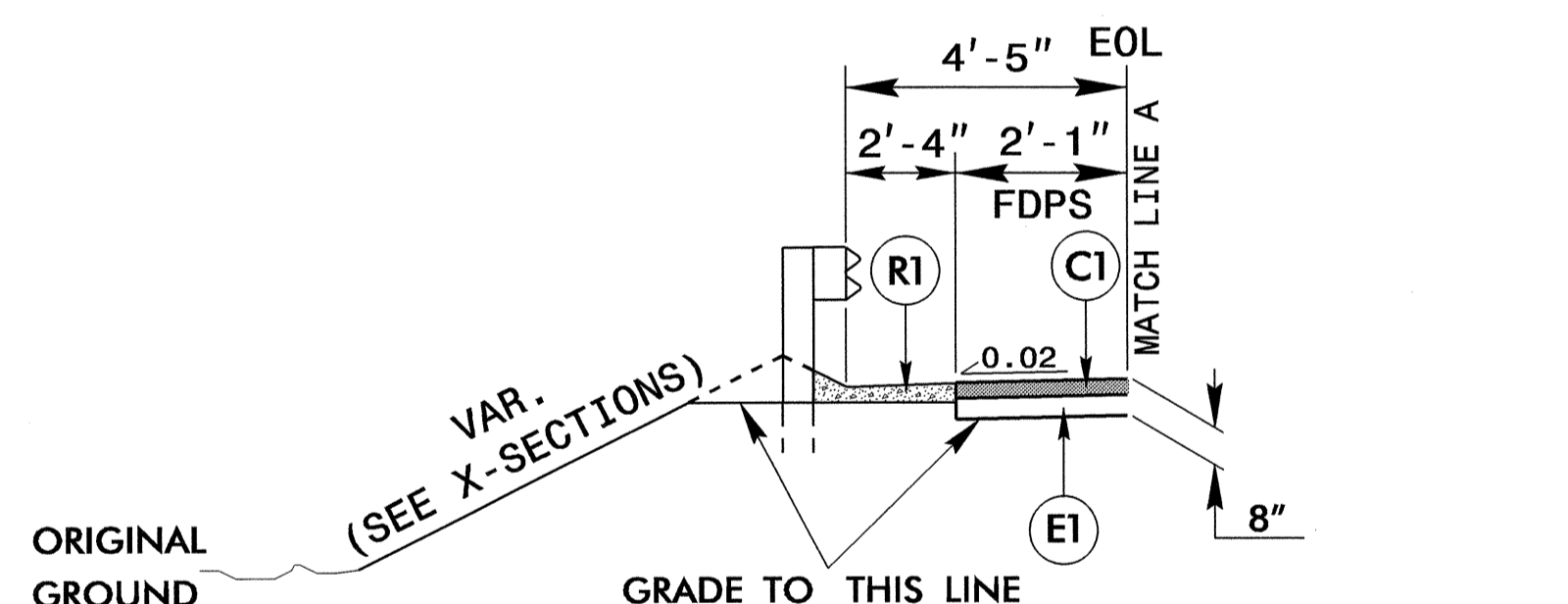
NOTE: DRAWING NOT TO SCALE

PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	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	SHOULDER BERM GUTTER.
T	EARTH MATERIAL.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING)

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

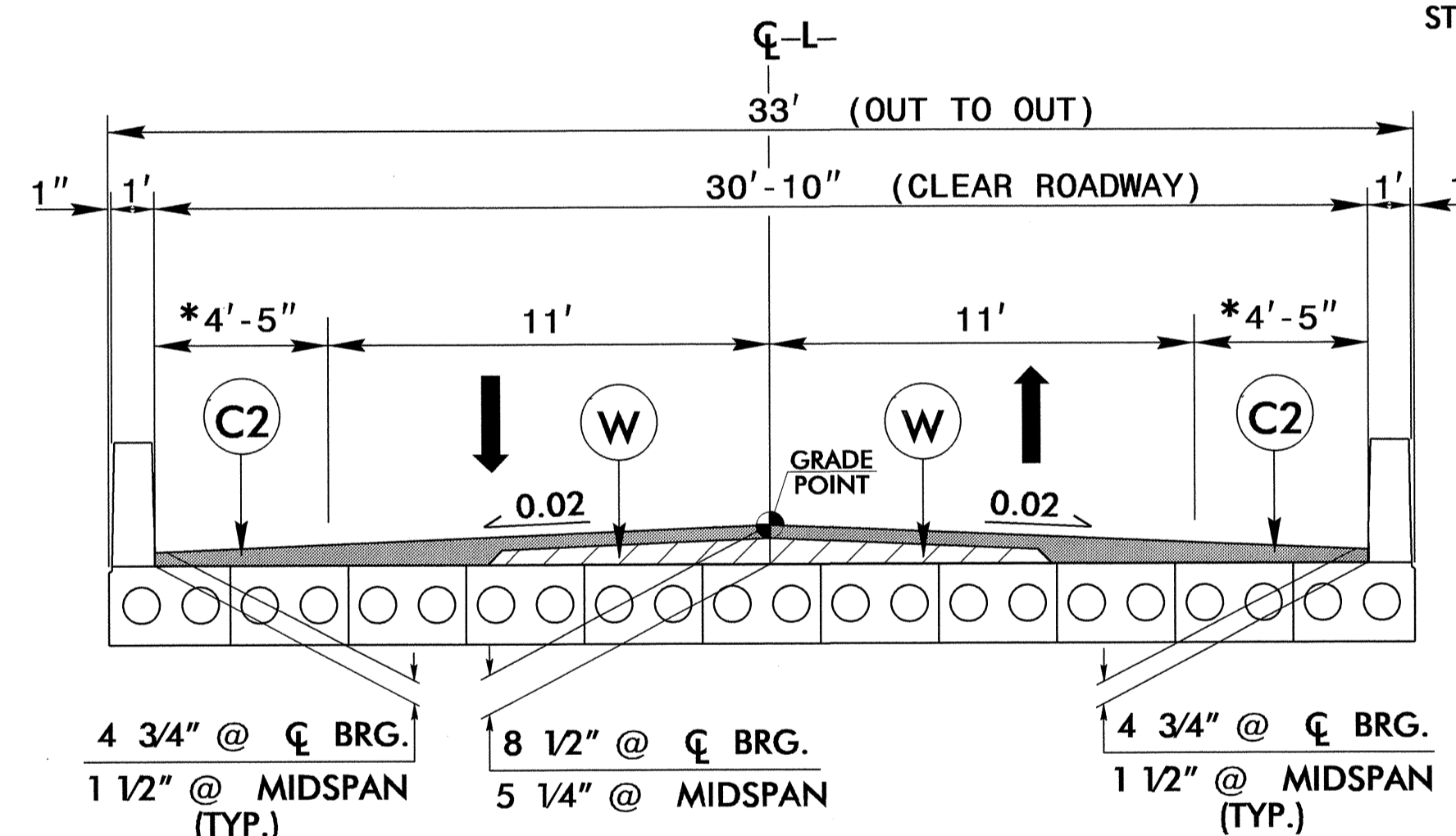


USE TYPICAL SECTION NO. 1 AT THE FOLLOWING LOCATIONS:  
 TRANSITION FROM EXISTING @ -L- STA. 10+25.00 TO TYPICAL SECTION NO. 1 @ -L- STA. 11+00.00  
 -L- STA. 11+00.00 TO 13+01.63 (BEGIN BRIDGE)  
 -L- STA. 14+19.37 (END BRIDGE) TO 15+25.00  
 TRANSITION FROM TYPICAL SECTION NO. 1 @ -L- STA. 15+25.00 TO EXISTING @ -L- STA. 16+00.00

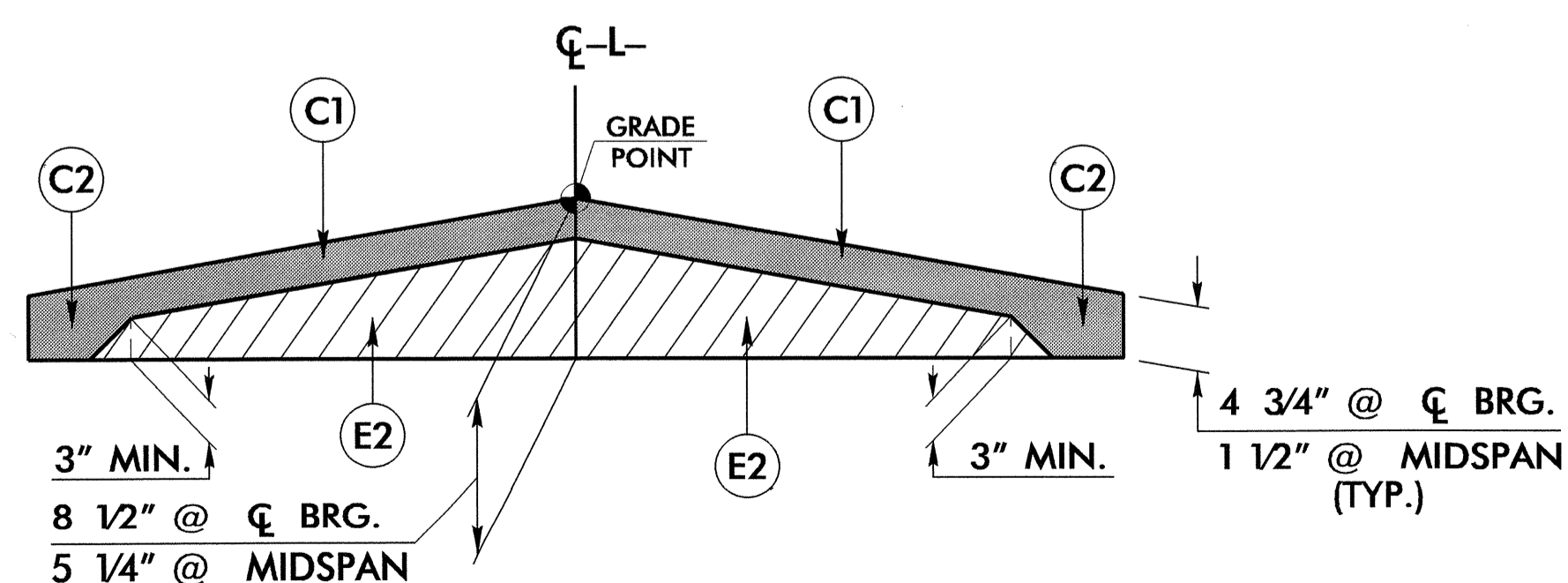


**DETAIL SHOWING SHOULDER BERM GUTTER (SBG) ON TOP OF SUBGRADE**

USE SHOULDER BERM GUTTER AT THE FOLLOWING LOCATIONS:  
 -L- STA. 14+21.00 (END APPROACH SLAB) TO 14+46.00 LT.  
 -L- STA. 14+39.00 (END APPROACH SLAB) TO 14+46.00 RT.



USE TYPICAL SECTION NO. 2 AT THE FOLLOWING LOCATION:  
 -L- STA. 13+01.63 (BEGIN BRIDGE) TO 14+19.37 (END BRIDGE)  
 \* ADDITIONAL BRIDGE OFFSET WIDTH REQUIRED FOR HYDRAULIC DESIGN



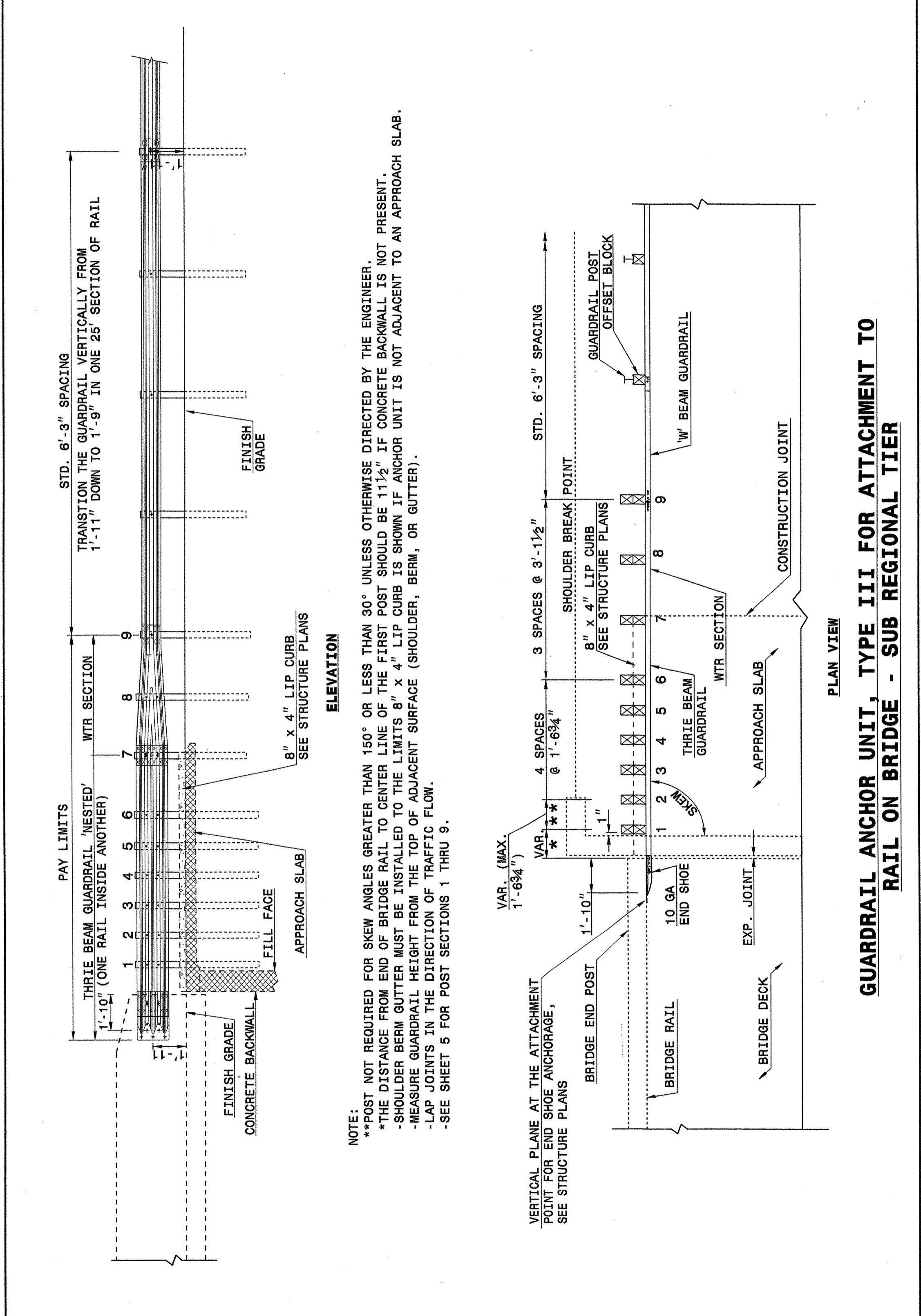
**DETAIL SHOWING METHOD OF WEDGING ON BRIDGE**

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 2

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

ENGLISH DETAIL DRAWING FOR STRUCTURE ANCHOR UNITS GUARDRAIL ANCHOR UNIT, TYPE III FOR ATTACHMENT TO RAIL ON BRIDGE - SUB REGIONAL TIER

SHEET 2 OF 7 862d03



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

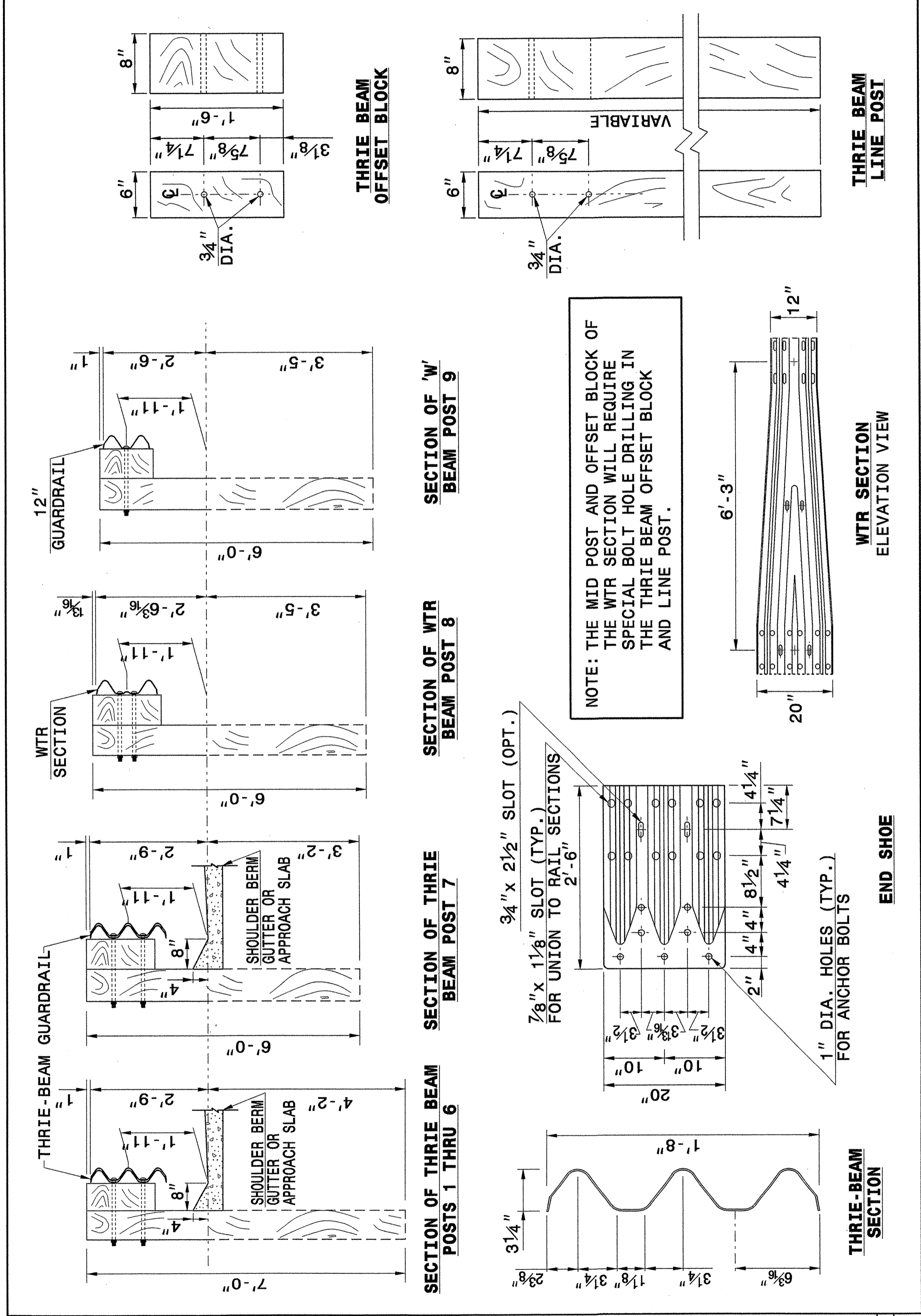
ENGLISH DETAIL DRAWING FOR STRUCTURE ANCHOR UNITS GUARDRAIL ANCHOR UNIT, TYPE III FOR ATTACHMENT TO RAIL ON BRIDGE - SUB REGIONAL TIER

SHEET 2 OF 7 862d03

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

ENGLISH DETAIL DRAWING FOR STRUCTURE ANCHOR UNITS GUARDRAIL ANCHOR UNIT, TYPE III

SHEET 3 OF 7 862d03



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

ENGLISH DETAIL DRAWING FOR STRUCTURE ANCHOR UNITS GUARDRAIL ANCHOR UNIT, TYPE III

SHEET 3 OF 7 862d03

CONTRACT STANDARDS AND DEVELOPMENT UNIT  
Office 919-707-6950 FAX 919-250-4119

**SEE TITLE BLOCK**

ORIGINAL BY: J. HOWERTON DATE: 06-22-12  
 MODIFIED BY: DATE:  
 CHECKED BY: DATE: 11/13/12  
 FILE SPEC.:



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 \$\$\$\$\$\$NAME\$\$\$\$\$\$

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C203259

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
0030000000-N	SP	Lump Sum		BRIDGE APPROACH FILL - SUB REGIONAL TIER, STATION ***** (13+60.50)
0043000000-N	226	Lump Sum		GRADING
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING
0057000000-E	226	200	CY	UNDERCUT EXCAVATION
0195000000-E	265	200	CY	SELECT GRANULAR MATERIAL
0196000000-E	270	200	SY	GEOTEXTILE FOR SOIL STABILIZATION
0318000000-E	300	10	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES
0320000000-E	300	20	SY	FOUNDATION CONDITIONING GEOTEXTILE
0366000000-E	310	16	LF	15" RC PIPE CULVERTS, CLASS III
0448200000-E	310	28	LF	15" RC PIPE CULVERTS, CLASS IV
1220000000-E	545	60	TON	INCIDENTAL STONE BASE
1489000000-E	610	450	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
1525000000-E	610	300	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
1575000000-E	620	40	TON	ASPHALT BINDER FOR PLANT MIX
2000000000-N	806	8	EA	RIGHT OF WAY MARKERS
2286000000-N	840	2	EA	MASONRY DRAINAGE STRUCTURES
2367000000-N	840	2	EA	FRAME WITH TWO GRATES, STD 840.29
2556000000-E	846	35	LF	SHOULDER BERM GUTTER
3030000000-E	862	75	LF	STEEL BM GUARDRAIL
3045000000-E	862	50	LF	STEEL BM GUARDRAIL, SHOP CURVED
3150000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS
3195000000-N	862	1	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1
3215000000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE III

ItemNumber	Sec #	Quantity	Unit	Description
3270000000-N	SP	3	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
3656000000-E	876	855	SY	GEOTEXTILE FOR DRAINAGE
3659000000-N	SP	1	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
4072000000-E	903	61	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
4096000000-N	904	2	EA	SIGN ERECTION, TYPE D
4155000000-N	907	5	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
4400000000-E	1110	398	SF	WORK ZONE SIGNS (STATIONARY)
4410000000-E	1110	119	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
4422000000-N	1120	28	DAY	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)
4430000000-N	1130	6	EA	DRUMS
4445000000-E	1145	80	LF	BARRICADES (TYPE III)
4810000000-E	1205	7,800	LF	PAINT PAVEMENT MARKING LINES (4")
6000000000-E	1605	1,250	LF	TEMPORARY SILT FENCE
6006000000-E	1610	150	TON	STONE FOR EROSION CONTROL, CLASS A
6009000000-E	1610	20	TON	STONE FOR EROSION CONTROL, CLASS B
6012000000-E	1610	195	TON	SEDIMENT CONTROL STONE
6015000000-E	1615	1	ACR	TEMPORARY MULCHING
6018000000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
6021000000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
6024000000-E	1622	200	LF	TEMPORARY SLOPE DRAINS
6029000000-E	SP	300	LF	SAFETY FENCE
6030000000-E	1630	50	CY	SILT EXCAVATION
6036000000-E	1631	2,600	SY	MATTING FOR EROSION CONTROL
6037000000-E	SP	325	SY	COIR FIBER MAT
6042000000-E	1632	265	LF	1/4" HARDWARE CLOTH

ItemNumber	Sec #	Quantity	Unit	Description
6048000000-E	SP	210	SY	FLOATING TURBIDITY CURTAIN
6070000000-N	1639	6	EA	SPECIAL STILLING BASINS
6071010000-E	SP	165	LF	WATTLE
6071020000-E	SP	50	LB	POLYACRYLAMIDE (PAM)
6084000000-E	1660	1	ACR	SEEDING & MULCHING
6087000000-E	1660	0.6	ACR	MOWING
6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
6096000000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
6108000000-E	1665	0.75	TON	FERTILIZER TOPDRESSING
6114500000-N	1667	10	MHR	SPECIALIZED HAND MOWING
6117000000-N	SP	18	EA	RESPONSE FOR EROSION CONTROL
6123000000-E	1670	0.1	ACR	REFORESTATION

5/28/99

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12/06/07

COMPUTED BY: C.E. HARRIS DATE: 10/2012  
 CHECKED BY: J.L. TEAGUE DATE: 8/2013

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO.  
 B-4749 3-A

**\*SUMMARY OF EARTHWORK**  
 IN CUBIC YARDS

STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
-L- STA. 10+25.00	-L- STA. 13+01.63 BEGIN BRIDGE	62	334	272	0
SUBTOTAL		62	334	272	0
-L- STA. 14+19.37 END BRIDGE	-L- STA. 16+00.0	94	49	0	45
SUBTOTAL		94	49	0	45
TOTAL		156	383	272	45
WASTE IN LIEU OF BORROW				-45	-45
PROJECT TOTALS		156	383	227	0
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				12	
GRAND TOTALS		156		239	
SAY		200		250	

ESTIMATED UNDERCUT EXCAVATION = 200 C.Y.  
 ESTIMATED SELECT GRANULAR MATERIAL = 200 C.Y.

Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

**\*ASPHALT PAVEMENT REMOVAL SUMMARY**  
 IN SQUARE YARDS

SURVEY LINE	STATION	STATION	LOCATION L/R/CL	YD <sup>2</sup>
-L-	10+25.00	13+08.17	EXIST. ROAD	600
-L-	14+13.42	16+00.00	EXIST. ROAD	410
TOTAL:				1,010
SAY:				1,025

**SHOULDER BERM GUTTER SUMMARY**  
 IN LINEAR FEET

SURVEY LINE	STATION	STATION	LOCATION	LENGTH (FT)
-L-	14+21.32	14+46.00	LT	24.68
-L-	14+39.12	14+46.00	RT	6.88
TOTAL:				31.56
SAY:				35

\* Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.  
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.  
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.  
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.  
 G = GATING IMPACT ATTENUATOR TYPE 350  
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

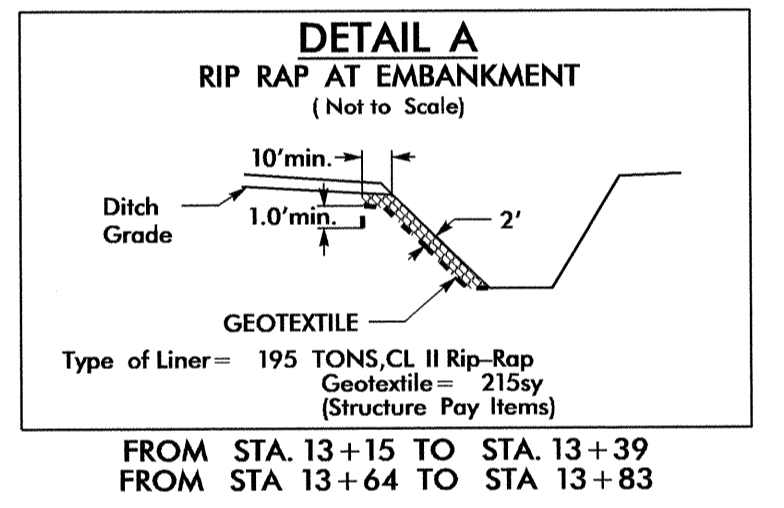
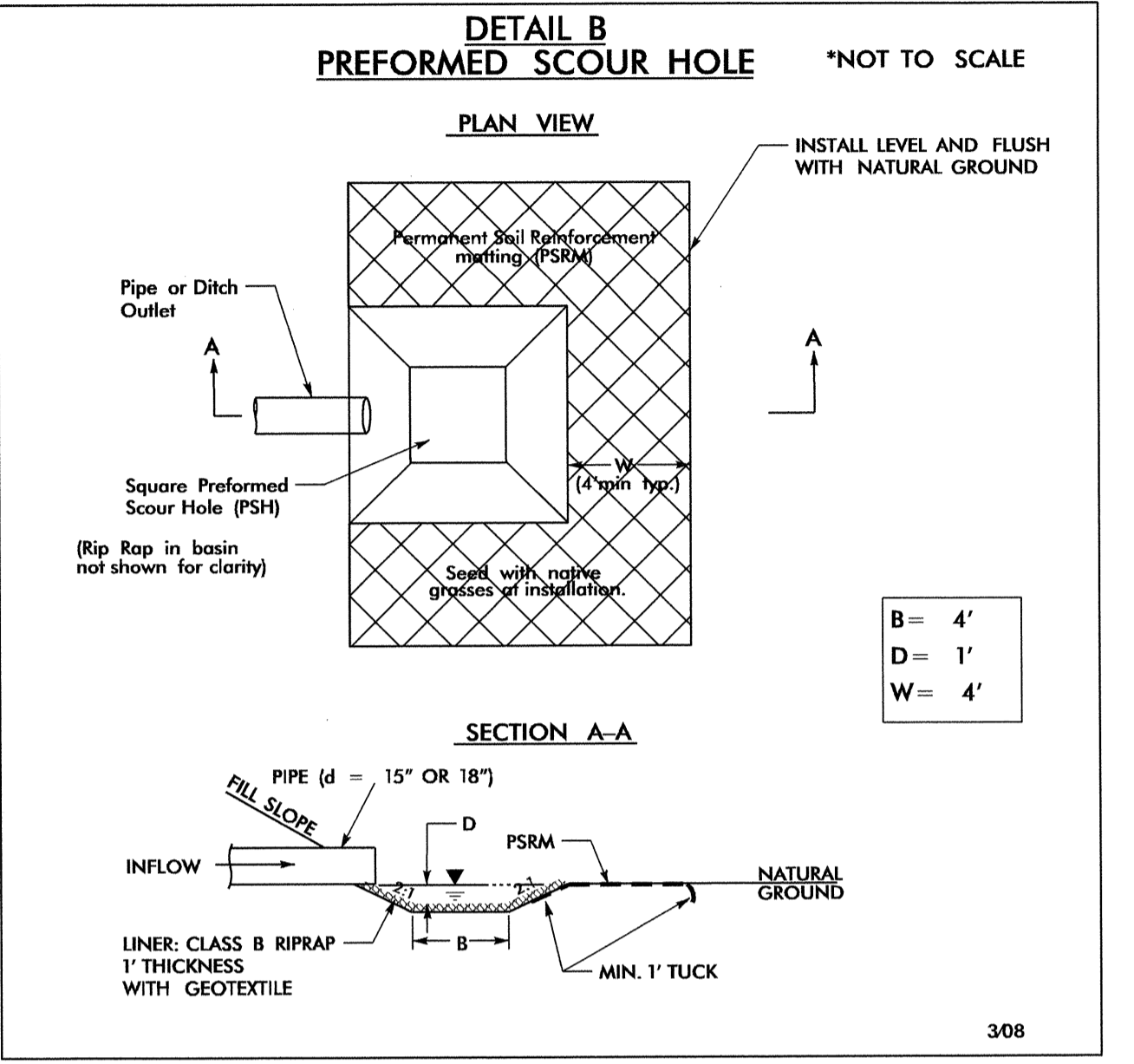
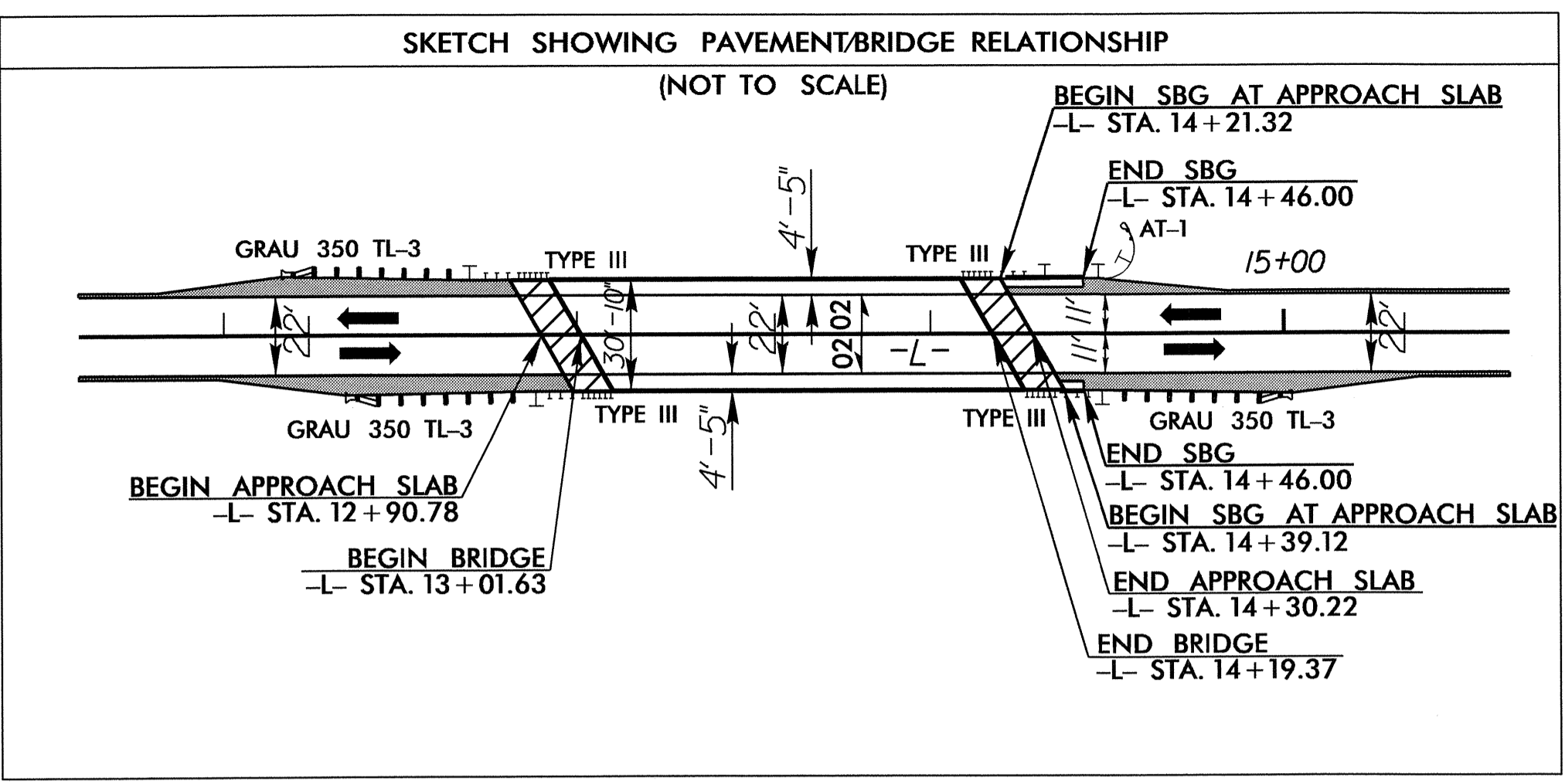
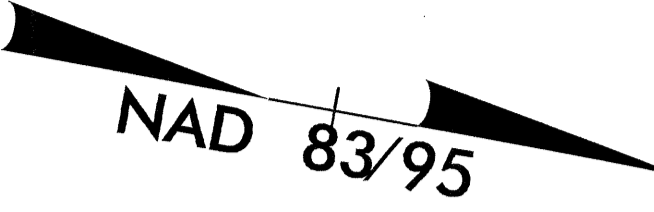
**GUARDRAIL SUMMARY**

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS							IMPACT ATTENUATOR TYPE 350			SINGLE FACED GUARDRAIL	REMOVE EXISTING GUARDRAIL	REMOVE AND STOCKPILE EXISTING GUARDRAIL	REMARKS										
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	AT-1	TYPE III	GRAU 350	M-350	XIII	CAT-1	VI MOD	BIC	EA	G					NG									
-L-	12+12.63	12+93.88 (BR)	LT	81.25'					4.42'	7.42'																												
-L-	12+30.44	13+11.69 (BR)	RT	81.25'					4.42'	7.42'	50'		1'																									
-L-	14+09.32 (BR)	14+64.67	LT	43.75'	31.25'				4.42'	7.42'	6.25'		4'																									
-L-	14+27.13 (BR)	15+08.38	RT	81.25'					4.42'	7.42'			1'																									
SUBTOTAL:				287.5'	31.25'																																	
ANCHOR DEDUCTION:				-225'	-6.25'																																	
TOTAL:				62.5'	25'																																	
SAY:				75'	50'																																	

ANCHOR DEDUCTION FOR STRAIGHT:  
 TYPE III: 4 @ 18.75' = 75'  
 GRAU 350: 3 @ 50' = 150'  
 TOTAL = 225'  
 ANCHOR DEDUCTION FOR SHOP CURVED:  
 TYPE AT-1: 1 @ 6.25' = 6.25'  
 TOTAL = 6.25'  
 ADDITIONAL GUARDRAIL POSTS : 5

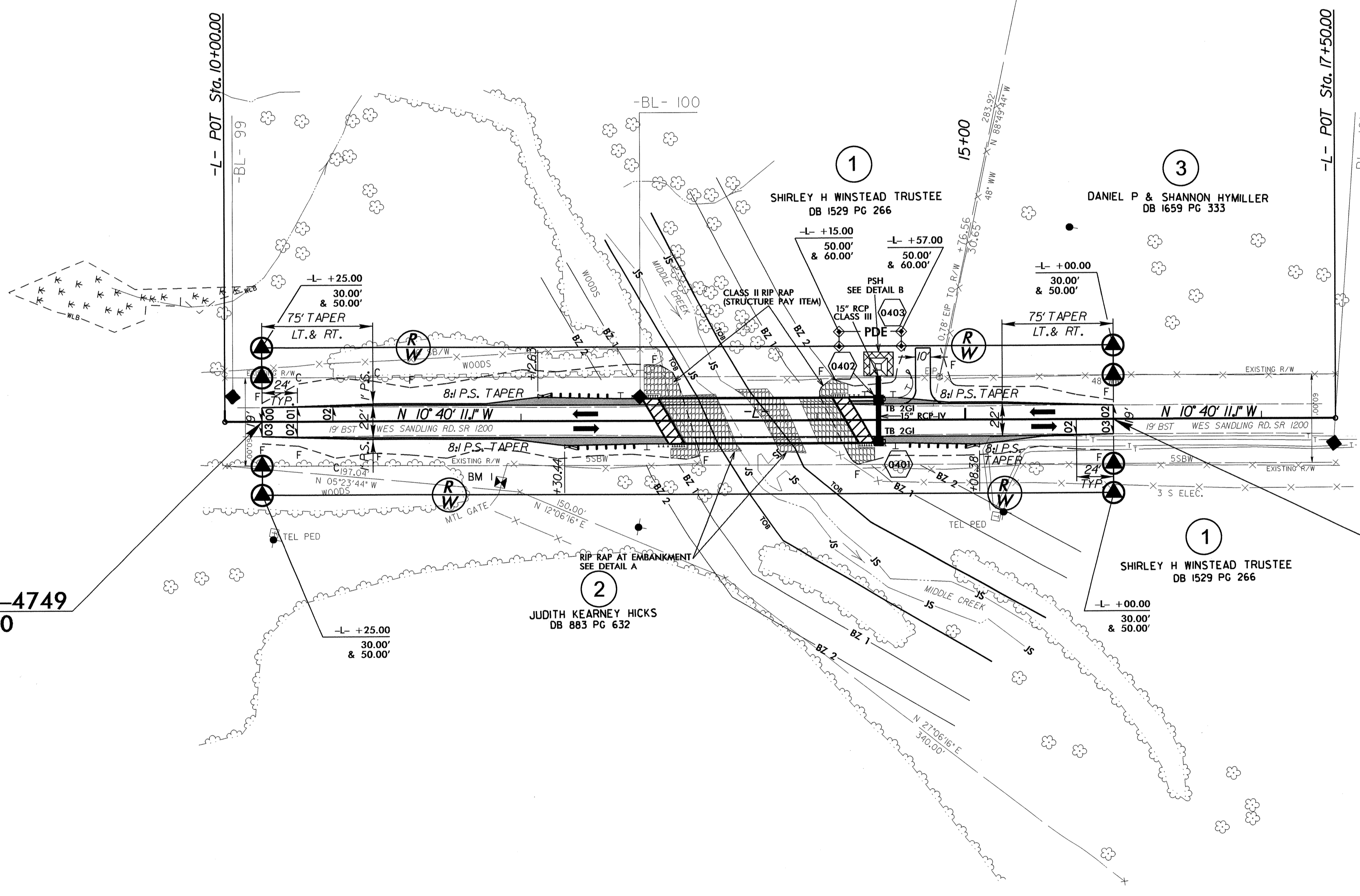
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**END TIP PROJECT B-4749**  
-L- POT STA. 16+00.00

**BEGIN TIP PROJECT B-4749**  
-L- POT STA. 10+25.00



REVISIONS

FOR -L- PROFILE, SEE SHEET NO. 5

PROP. PAVED SHOULDER

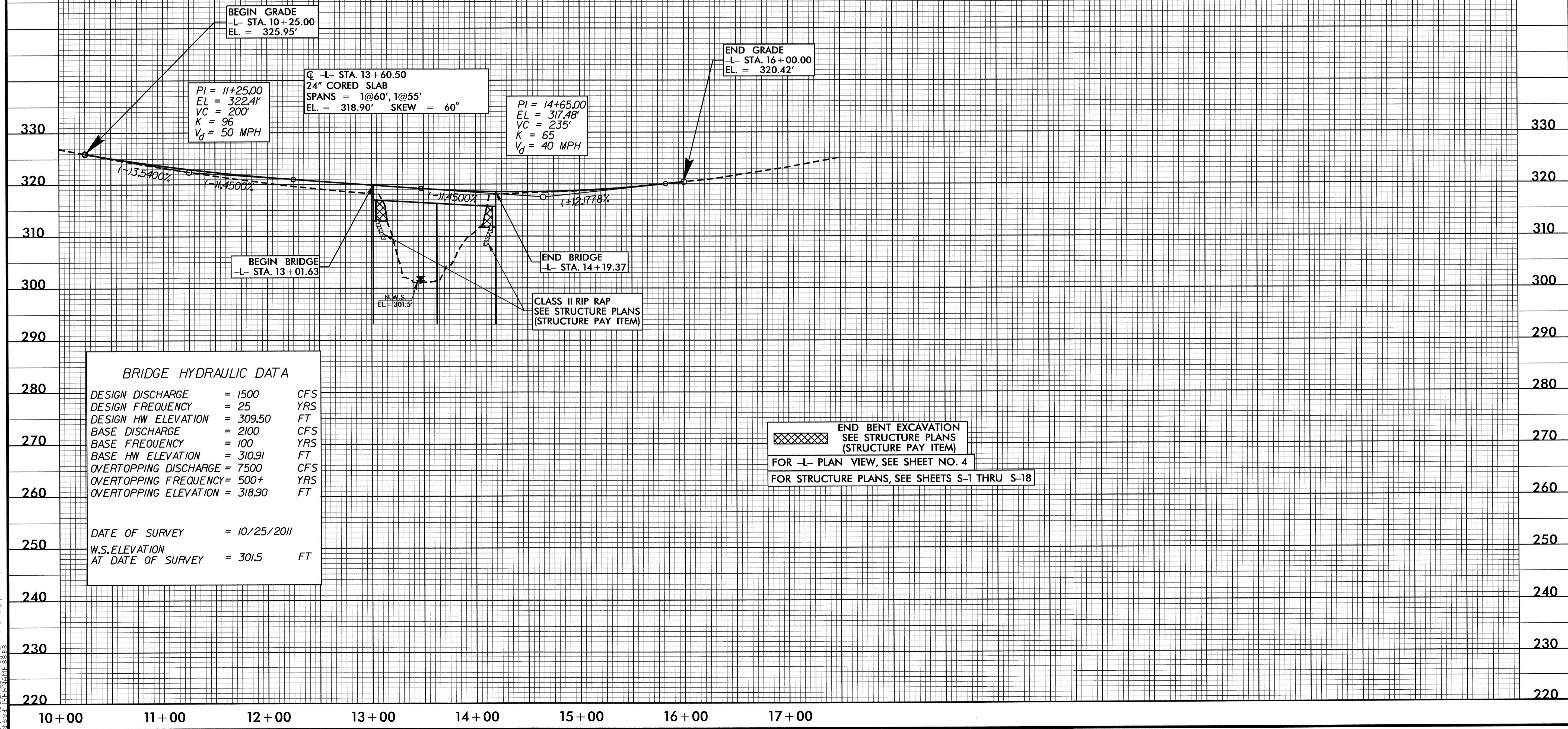
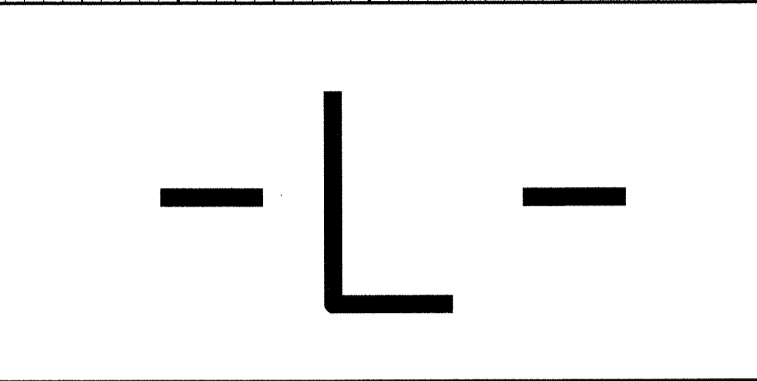
ALL DRIVEWAY RADII ARE 10' UNLESS NOTED OTHERWISE ON PLANS

FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-18

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5/14/99

BM #1 RR SPIKE IN BASE OF 12" PINE  
 -L- STA. 11+86.00, 42' RT.  
 ELEV. = 322.88'



**BRIDGE HYDRAULIC DATA**

DESIGN DISCHARGE	= 1500	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 309.50	FT
BASE DISCHARGE	= 2100	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 310.91	FT
OVERTOPPING DISCHARGE	= 7500	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 318.90	FT
DATE OF SURVEY	= 10/25/2011	
W.S. ELEVATION AT DATE OF SURVEY	= 301.5	FT

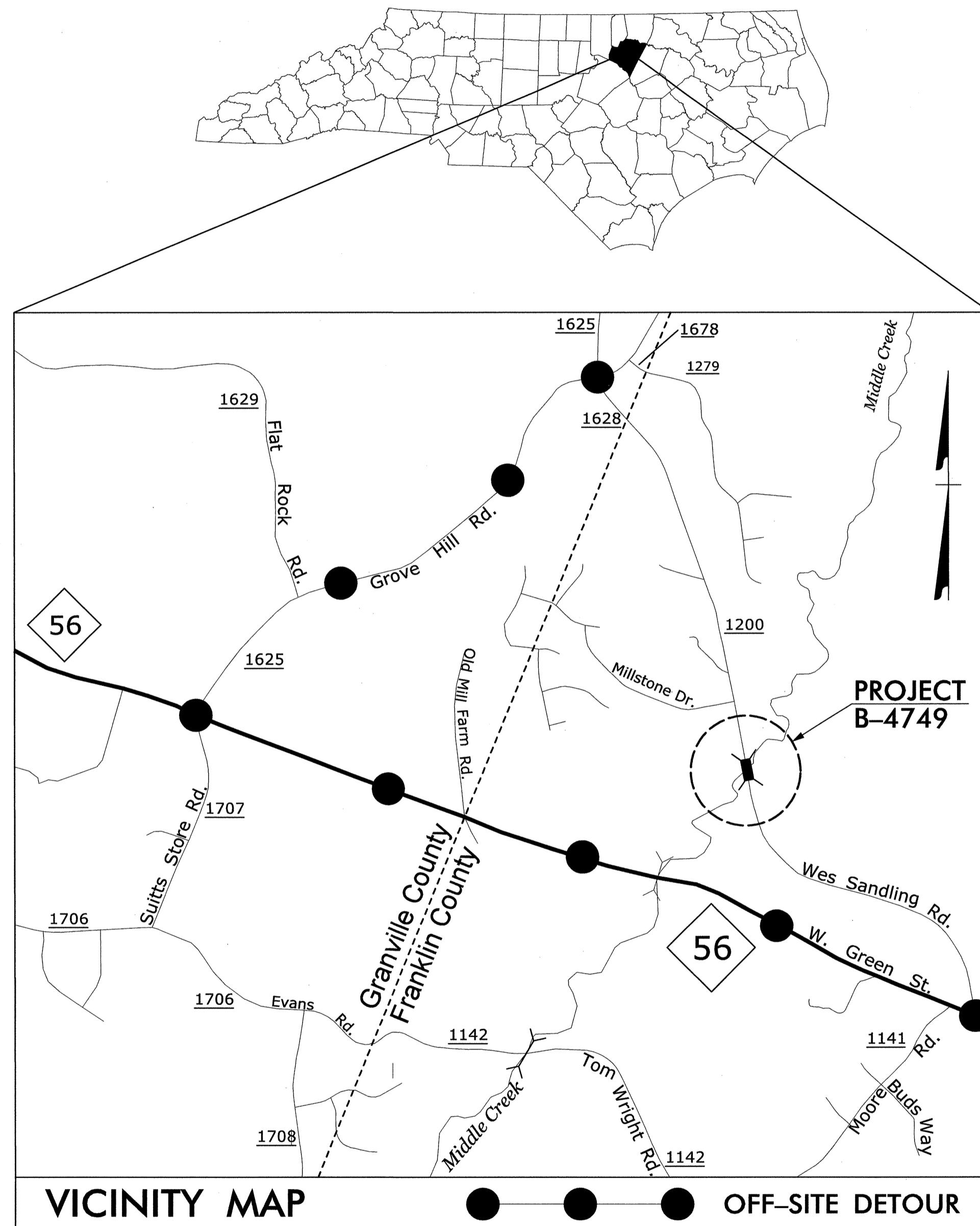
END BENT EXCAVATION  
 SEE STRUCTURE PLANS  
 (STRUCTURE PAY ITEM)  
 FOR -L- PLAN VIEW, SEE SHEET NO. 4  
 FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-18

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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**FRANKLIN COUNTY**



VICINITY MAP

● ● ● OFF-SITE DETOUR

**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES AND PHASING)
TMP-2	OFF-SITE DETOUR AND BARRICADE PLACEMENT
TMP-3	SIGN DESIGN DETAIL

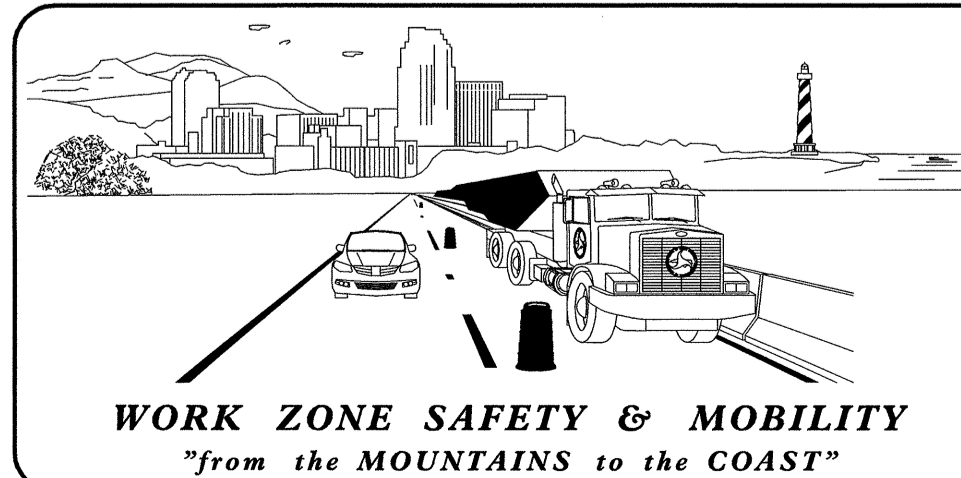
SHEET NO.

TMP-1

**TIP PROJECT: B-4749**

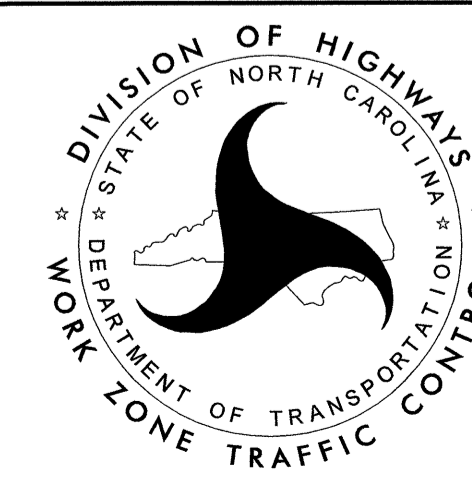
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User:rdkennedy



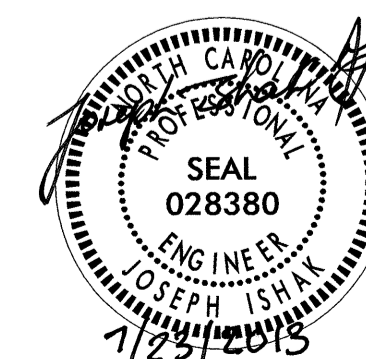
**N.C.D.O.T. WORK ZONE TRAFFIC CONTROL**  
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561  
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)  
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER  
JOSEPH ISHAK, P.E. TRAFFIC CONTROL PROJECT ENGINEER  
MICHAEL STEELMAN TRAFFIC CONTROL PROJECT DESIGN ENGINEER  
DURWOOD KENNEDY, P.E. TRAFFIC CONTROL DESIGN ENGINEER



APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_

SEAL





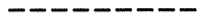


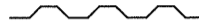
## ROADWAY STANDARD DRAWINGS


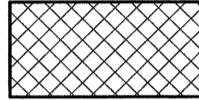
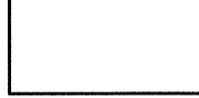

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1130.01	DRUM
1145.01	BARRICADES







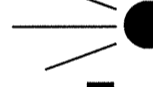


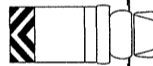

## LEGEND

### GENERAL




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

-  WORK AREA
-  REMOVAL
-  USER DEFINED (IF NEEDED)
-  USER DEFINED (IF NEEDED)

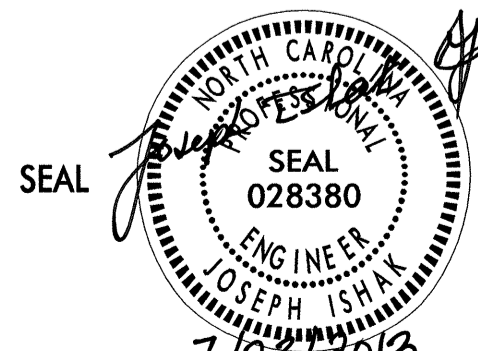
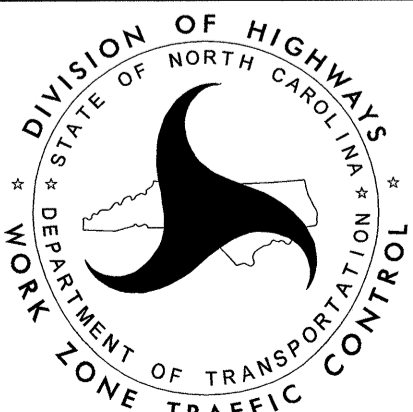
### TRAFFIC CONTROL DEVICES

-  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

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APPROVED: _____ DATE: _____ 		<b>ROADWAY STANDARD DRAWINGS &amp; LEGEND</b>
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## MANAGEMENT STRATEGIES

DURING REPLACEMENT OF THE EXISTING BRIDGE No. 27 OVER MIDDLE CREEK, SR-1200 (WES SANDLING RD.) WILL BE CLOSED TO THROUGH TRAFFIC. THE WES SANDLING RD. TRAFFIC WILL BE DETOURED OFF-SITE.

## PHASING

### STEP 1:

PROVIDE AND MAINTAIN CHANGEABLE MESSAGE SIGNS AT EACH END OF SR-1200 (WES SANDLING RD.) OR AS DIRECTED BY THE ENGINEER FOR FOURTEEN (14) CALENDAR DAYS PRIOR TO ROAD CLOSURE, AS SHOWN ON SHEET TMP-2.

USING ROADWAY STANDARD DRAWING (RSD) 1101.03, SHEET 1 OF 9, SHEETS TMP-2 AND TMP-3, MAY BEGIN INSTALLATION OF ROAD CLOSURE AND DETOUR SIGNS. COVER SIGNS UNTIL READY TO CLOSE THE ROAD.

### STEP 2:

USING RSD 1101.03, SHEET 1 OF 9, SHEETS TMP-2 AND TMP-3, INSTALL / UNCOVER ROAD CLOSURE AND DETOUR SIGNS. PLACE TYPE III BARRICADES TO CLOSE SR-1200 TO THROUGH TRAFFIC, AND DETOUR TRAFFIC OFF-SITE. CHANGEABLE MESSAGE SIGNS MAY BE REMOVED.

### STEP 3:

AWAY FROM TRAFFIC, COMPLETE THE FOLLOWING:

SEE ROADWAY AND STRUCTURAL PLANS.

- REMOVE EXISTING STRUCTURE NO. 27 AND CONSTRUCT THE PROPOSED STRUCTURE.
- CONSTRUCT PROPOSED ROADWAY UP THROUGH THE FINAL LAYER OF SURFACE COURSE FROM -L- STA.10+25 +/- TO -L- STA.16+00 +/- . USING FINAL PAVEMENT MARKING PLAN, PLACE FINAL PAVEMENT MARKINGS AND MARKERS FROM -L- STA.10+25 +/- TO -L- STA.16+00 +/- , AND TIE INTO EXISTING PAVEMENT MARKINGS.

### STEP 4:

REMOVE ALL ROAD CLOSURE SIGNING / DEVICES AND DETOUR SIGNS. OPEN SR-1200 (WES SANDLING RD.) TO PROPOSED TRAFFIC PATTERN.

## GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

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

### TRAFFIC PATTERN ALTERATIONS

- A) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

### SIGNING

- B) PROVIDE PERMANENT SIGNING.
- C) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRANSPORTATION MANAGEMENT PLAN.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRANSPORTATION MANAGEMENT PLAN.

- D) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

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

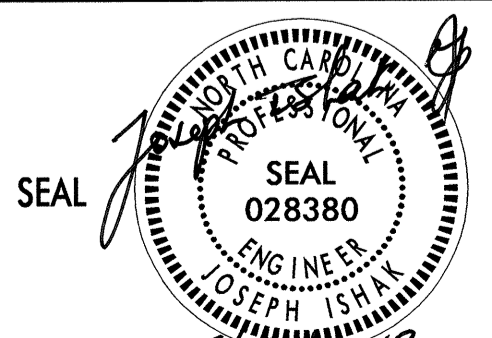
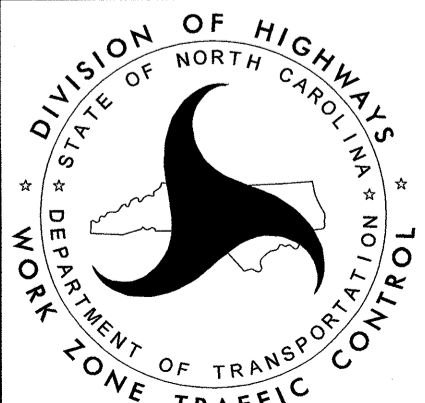
### TRAFFIC CONTROL DEVICES

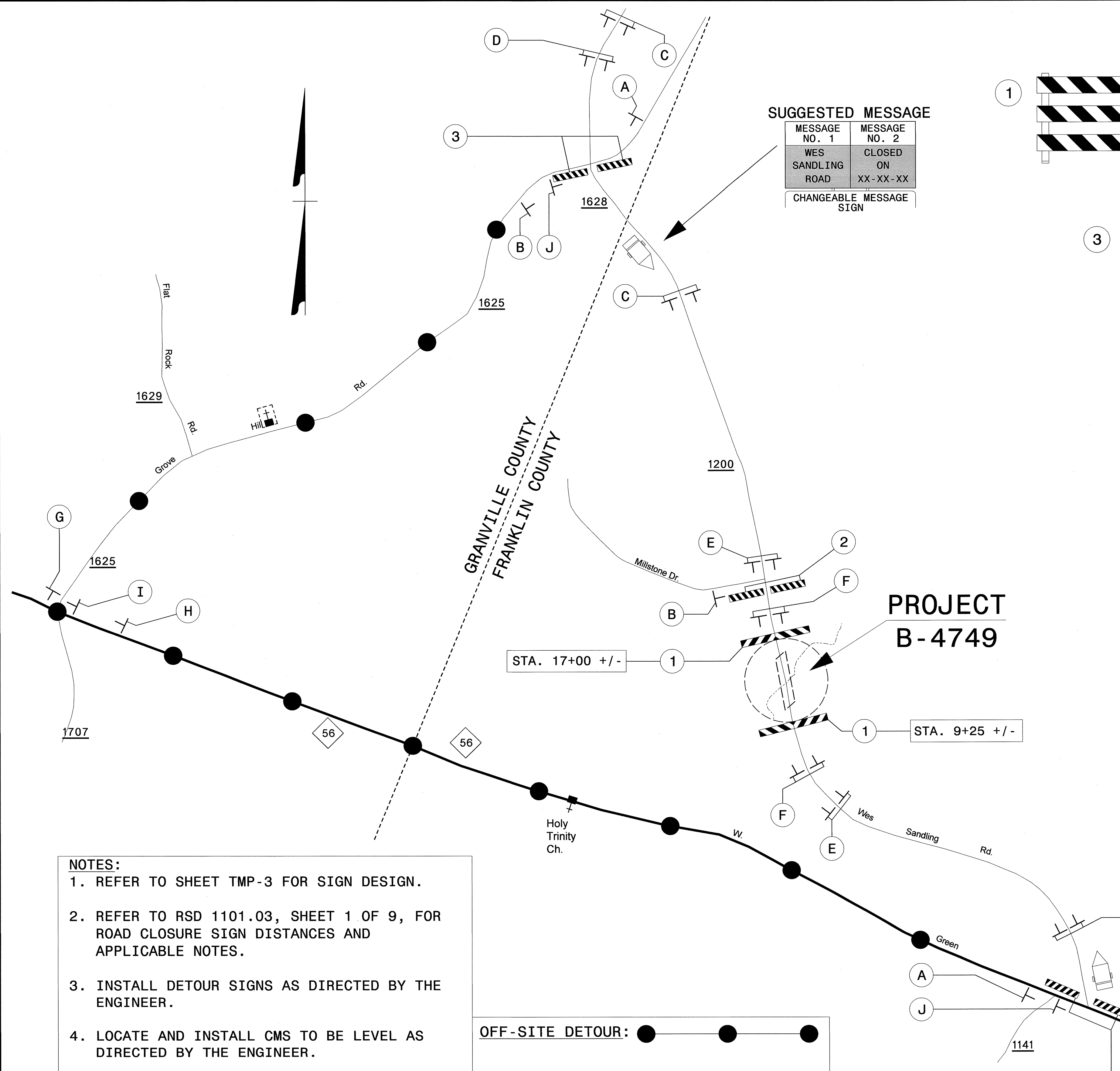
- F) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

### PAVEMENT MARKINGS AND MARKERS

- G) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE, AS SHOWN IN THE PAVEMENT MARKING PLAN.
- H) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

7/22/2013 10:00:00 AM User:drkennedy

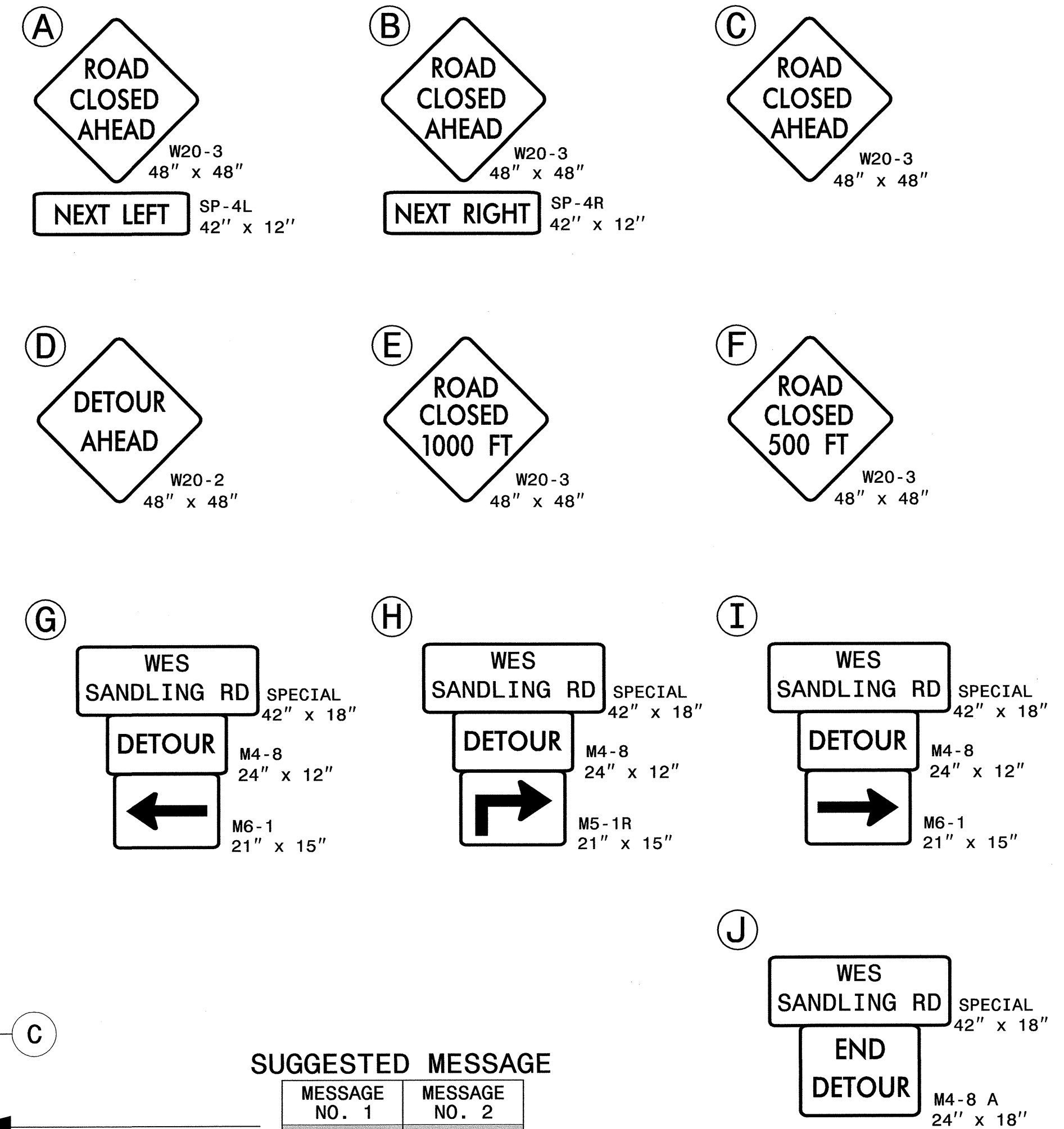
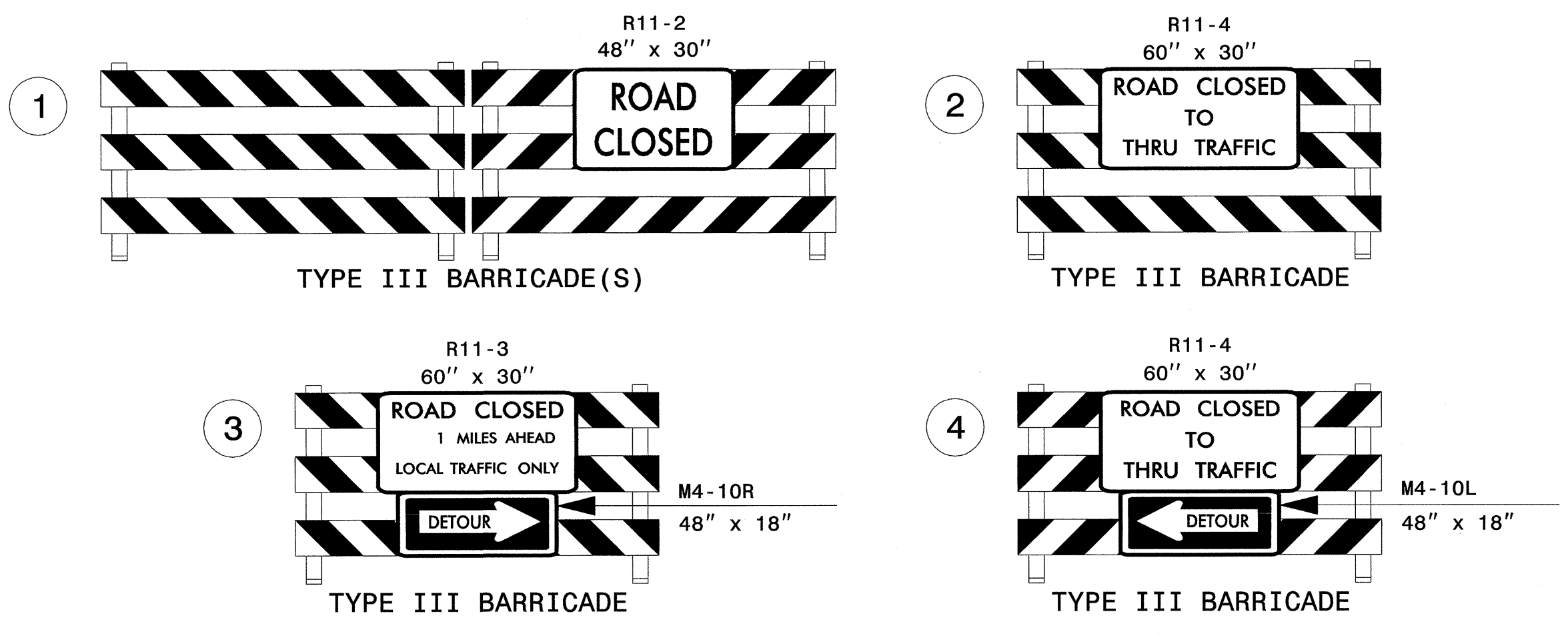
APPROVED: _____	DATE: _____			<h3 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h3>
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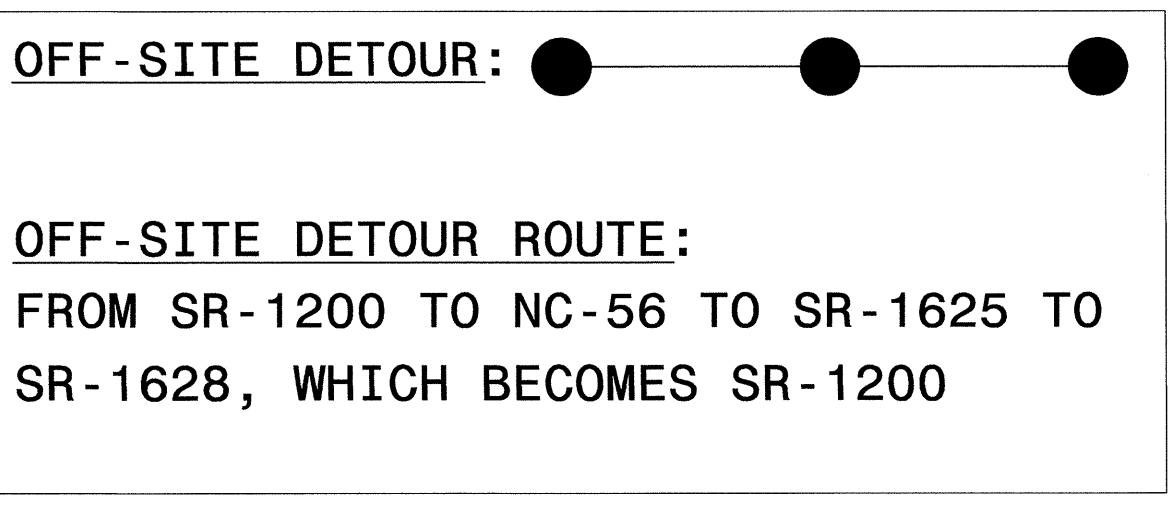
**SUGGESTED MESSAGE**

MESSAGE NO. 1	MESSAGE NO. 2
WES SANDLING ROAD	CLOSED ON XX-XX-XX

CHANGEABLE MESSAGE SIGN



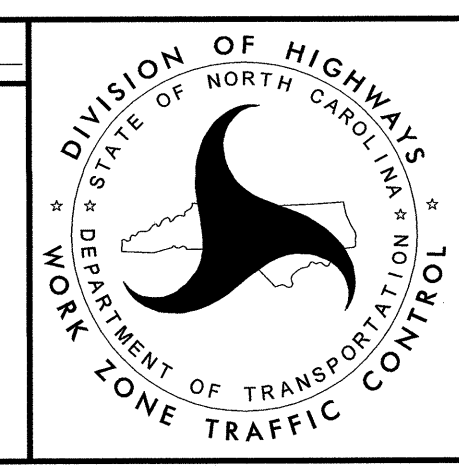
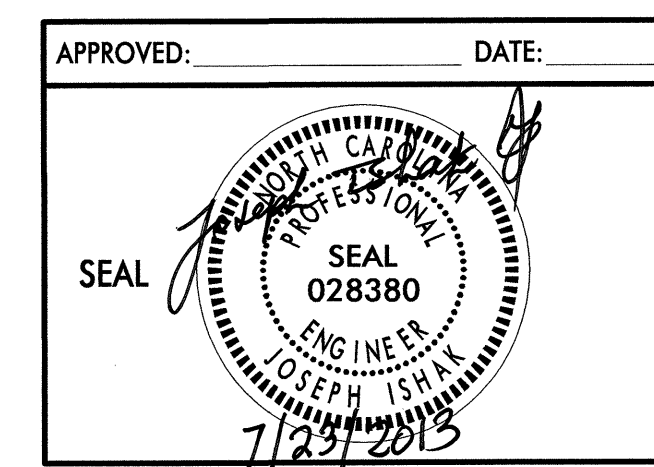
- NOTES:**
- REFER TO SHEET TMP-3 FOR SIGN DESIGN.
  - REFER TO RSD 1101.03, SHEET 1 OF 9, FOR ROAD CLOSURE SIGN DISTANCES AND APPLICABLE NOTES.
  - INSTALL DETOUR SIGNS AS DIRECTED BY THE ENGINEER.
  - LOCATE AND INSTALL CMS TO BE LEVEL AS DIRECTED BY THE ENGINEER.
  - CMS(S) SHALL BE USED TO PROVIDE FOURTEEN (14) CALENDAR DAYS ADVANCE WARNING OF ROAD CLOSURE. CMS(S) SHOULD BE REMOVED AFTER ROAD IS CLOSED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



**SUGGESTED MESSAGE**

MESSAGE NO. 1	MESSAGE NO. 2
WES SANDLING ROAD	CLOSED ON XX-XX-XX

CHANGEABLE MESSAGE SIGN



**OFF-SITE DETOUR AND BARRICADE PLACEMENT**

7/22/2013 R:\TipProjects\B-4749\TrafficControl\CP\B-4749\_TC\_TMP\_02.dgn User:tdr.kennedy



SIGN NUMBER: TC-1      BACKG COLOR: Fluorescent Orange  
 TYPE: STATIONARY      COPY COLOR: Black

DESIGN BY: A. GRADY      CHECKED BY: S. KUNZ  
 PROJECT ID: B-4749      DIV: 5

DATE: Apr 25, 2013

QUANTITY: SEE PLANS

SIGN WIDTH: 3'-6"  
 HEIGHT: 1'-6"  
 TOTAL AREA: 5.3 Sq.Ft.

BORDER TYPE: INSET  
 RECESS: 0.5"  
 WIDTH: 0.5"  
 RADII: 1.5"

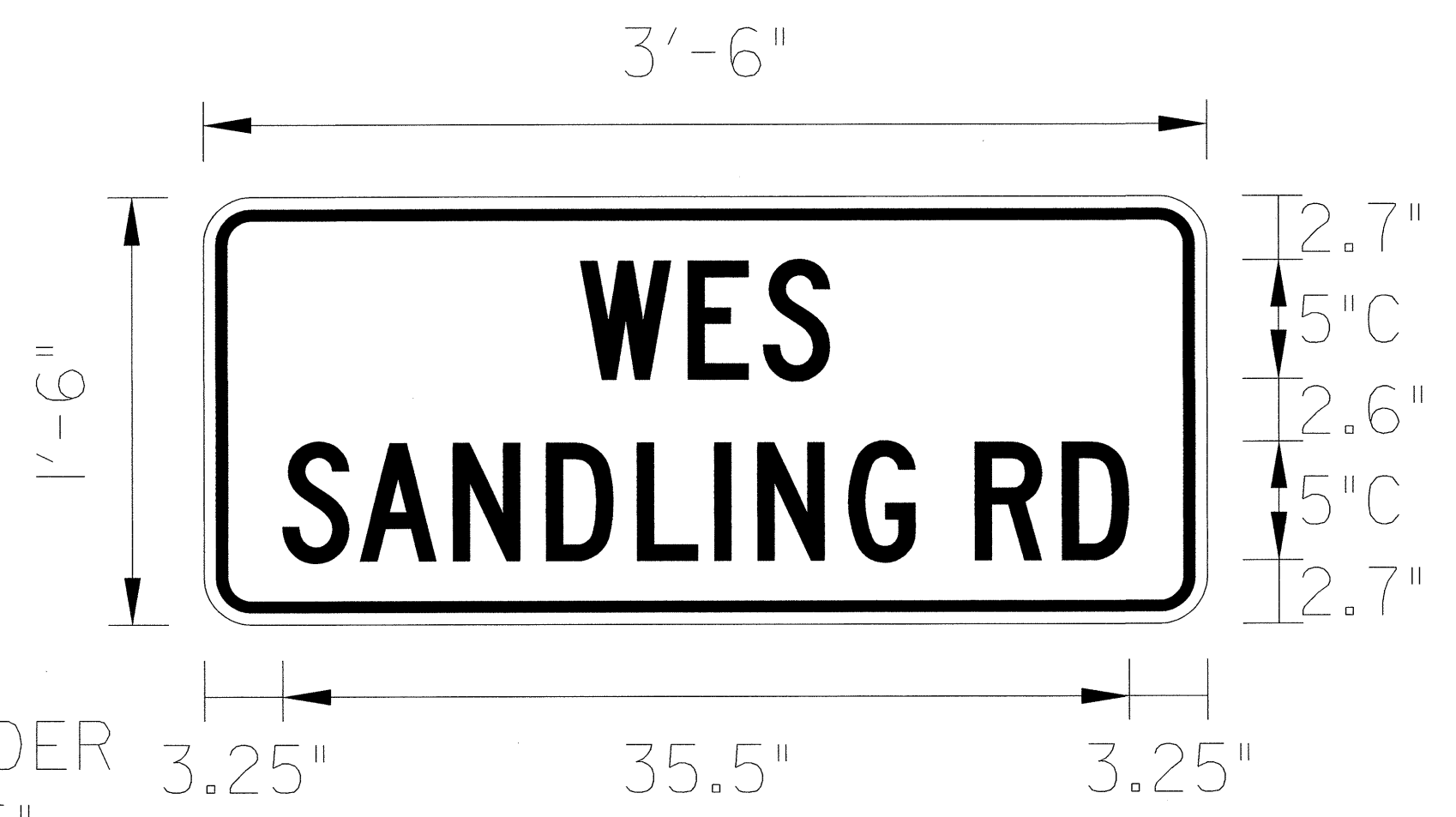
NO. Z BARS:  
 LENGTH:

SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B fluoresent orange retroreflective sheeting.



BORDER  
 R=1.5"  
 TH=0.5"  
 IN=0.5"

Spacing Factor is 1 unless specified otherwise

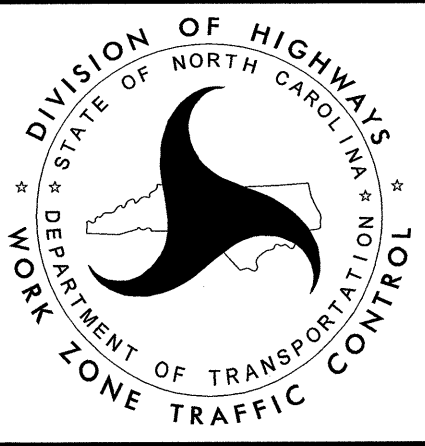
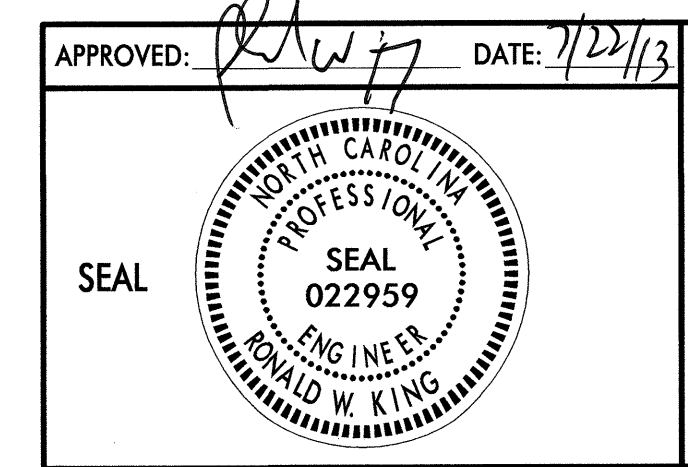
LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size	
													Text Length	
	W	E	S											C 2000
15.8	4.5	3.2	2.8	15.8										10.5
	S	A	N	D	L	I	N	G		R	D			C 2000
3.3	3.2	3.9	3.9	3.8	3.2	1.8	3.8	2.8	2.5	3.6	2.8	3.3		35.5

FILENAME: B-4749\_Sgn\_SGN\_TC

NORTH CAROLINA D.O.T. SIGN DETAIL

7/22/2013 R:\TIP\Projects-B\B4749\TrafficControl\CP\B-4749\_TC\_TMP\_03.dgn User:drkennedy



SPECIAL SIGN DESIGN

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

TIP NO. B-4749	SHEET NO. PMP-1
APPROVED: <i>RW7</i>	DATE: <i>7/22/13</i>
SEAL	

**PAVEMENT MARKING PLAN**

**FRANKLIN COUNTY**  
LOCATION: BRIDGE 27 OVER MIDDLE CREEK  
ON SR 1200 (WES SANDLING RD.)

**ROADWAY STANDARD DRAWING**

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 AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

**PAVEMENT MARKING SCHEDULE**

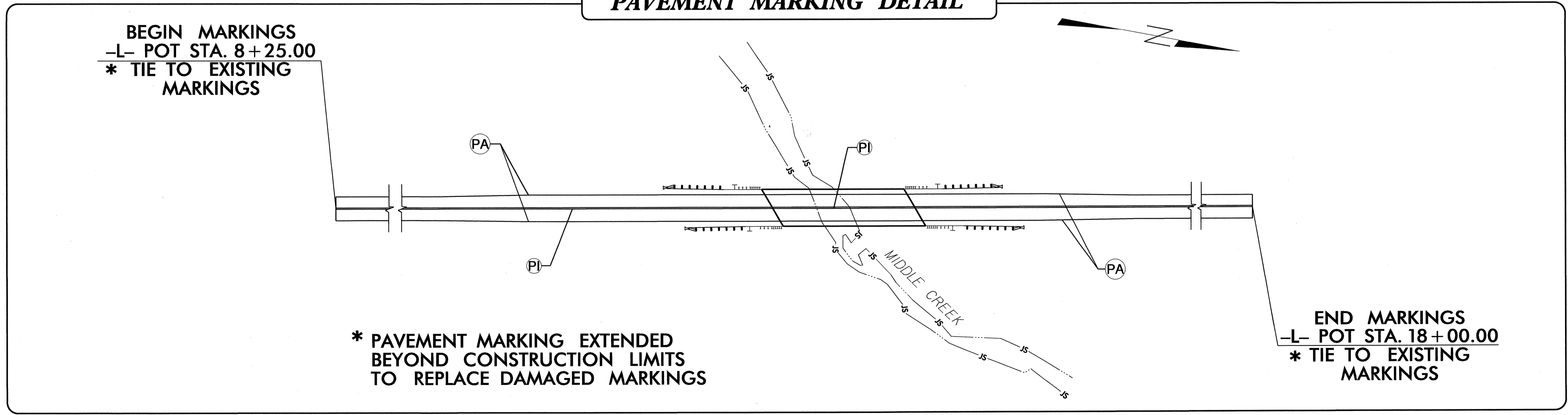
SYMBOL	DESCRIPTION
PAINT (4")	
PA	WHITE EDGELINE
PI	YELLOW DOUBLE CENTER

**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 PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
SR 1200	PAINT	NONE
  - B) PLACE TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE. PLACE THE SECOND APPLICATION OF PAINT UPON SUFFICIENT DRYING TIME OF THE FIRST.
  - C) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
  - D) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
  - E) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
  - F) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING PAINT PAVEMENT MARKINGS.

**PAVEMENT MARKING DETAIL**



PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

SUSAN B. KUNZ	SIGNING & DELINEATION REGIONAL ENGINEER
ADAM GRADY	SIGNING & DELINEATION PROJECT DESIGN ENGINEER

**T.I.P.: B-4749**  
**CONTRACT: C203259**

22-Jul-2013 15:30  
P:\TIP\Projects\B-4749\Signing\CADD\B-4749\_Sgn\_PMP\_SEED.dgn  
angrady AT 12/27/13

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4749	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

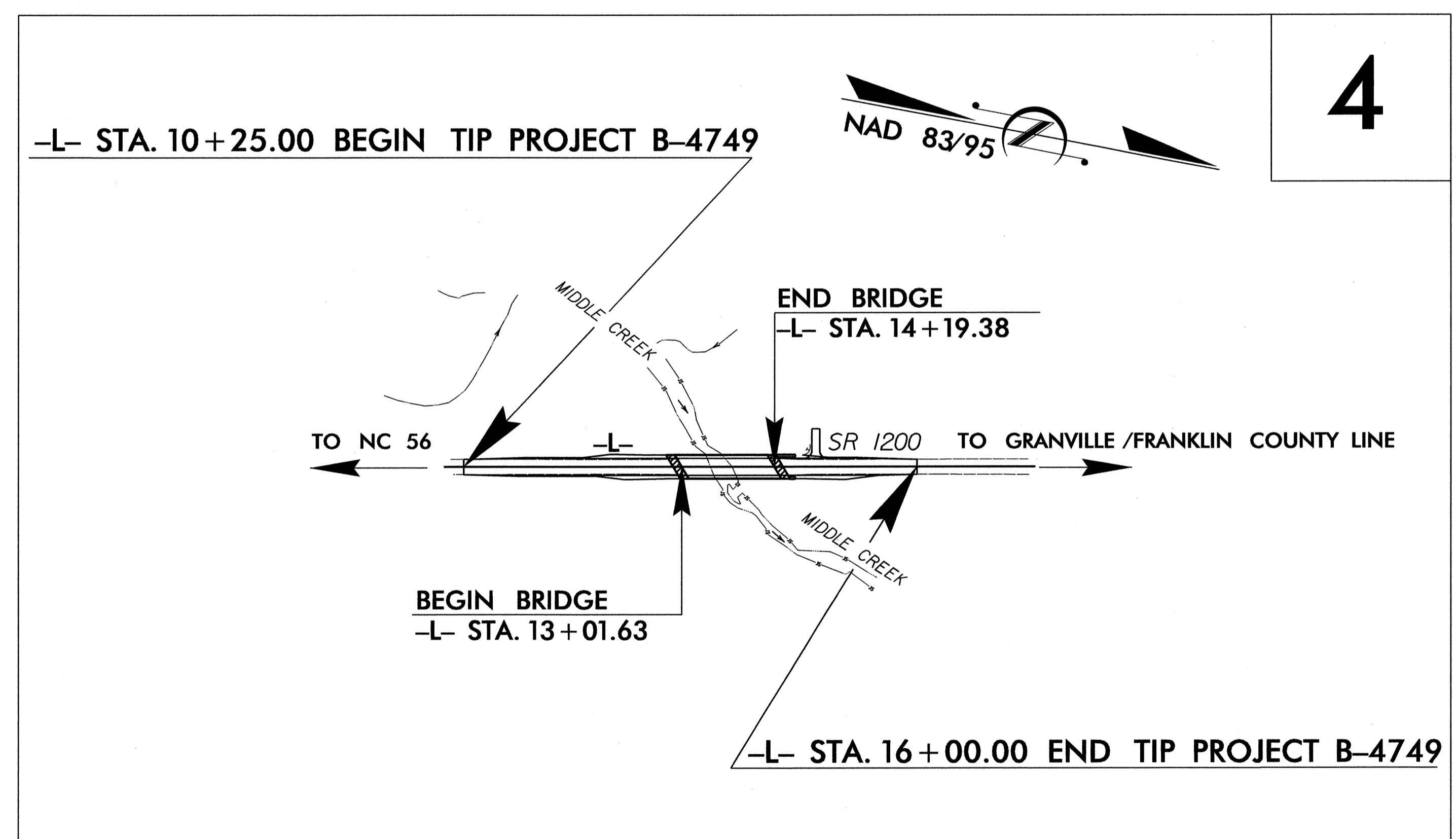
**TIP PROJECT: B-4749**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL**

**FRANKLIN COUNTY**

**LOCATION: BRIDGE NO. 27 OVER MIDDLE CREEK  
ON SR 1200 (WES SANDLING RD.)**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE**



**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	△△△△△△△△
1622.01	Temporary Berms and Slope Drains	T
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.**

**THIS PROJECT HAS  
BEEN DESIGNED TO  
SENSITIVE WATERSHED  
STANDARDS.**

**ENVIRONMENTALLY  
SENSITIVE AREA(S) EXIST  
ON THIS PROJECT**  
*Refer To E. C. Special Provisions  
for Special Considerations.*

**GRAPHIC SCALE**

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100

PLANS

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100

PROFILE (HORIZONTAL)

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100

PROFILE (VERTICAL)

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:  
**ROADSIDE ENVIRONMENTAL UNIT**  
1 South Wilmington St.  
Raleigh, NC 27611  
**2012 STANDARD SPECIFICATIONS**

Roadway Standard Drawings

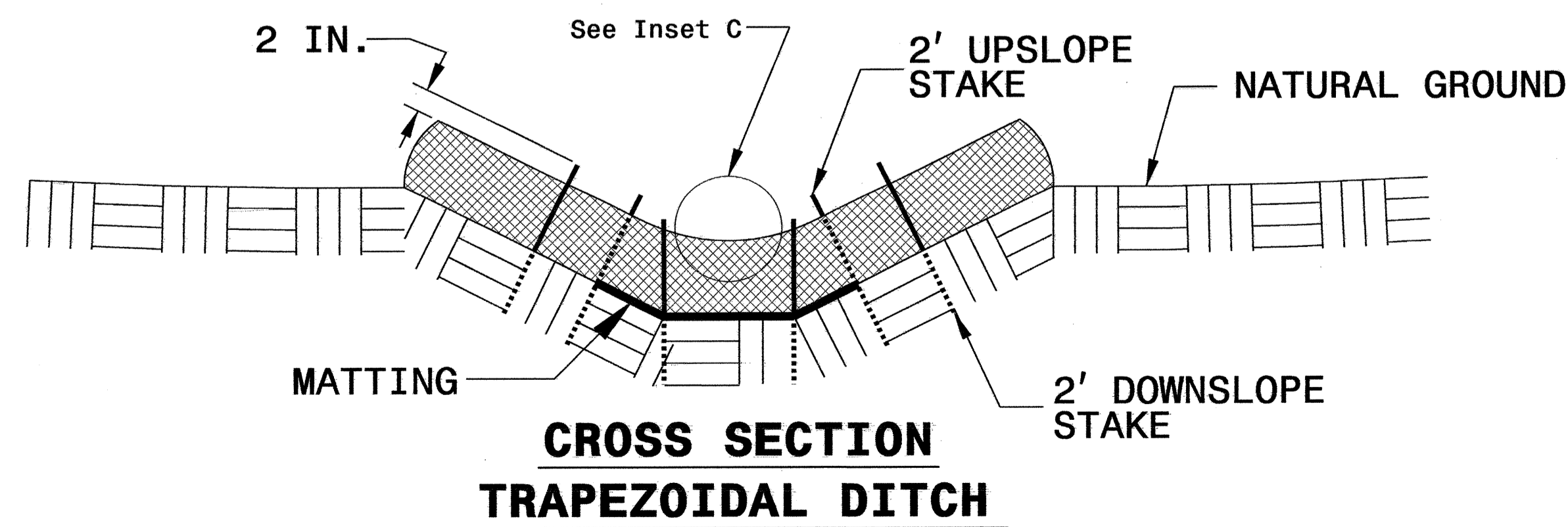
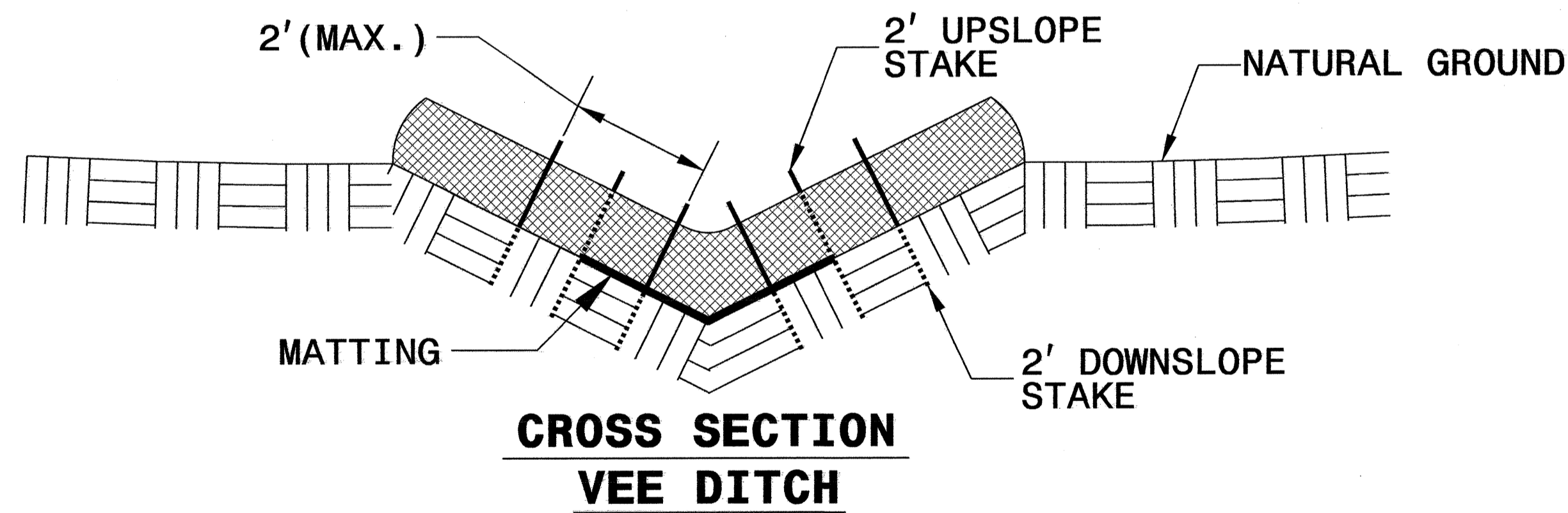
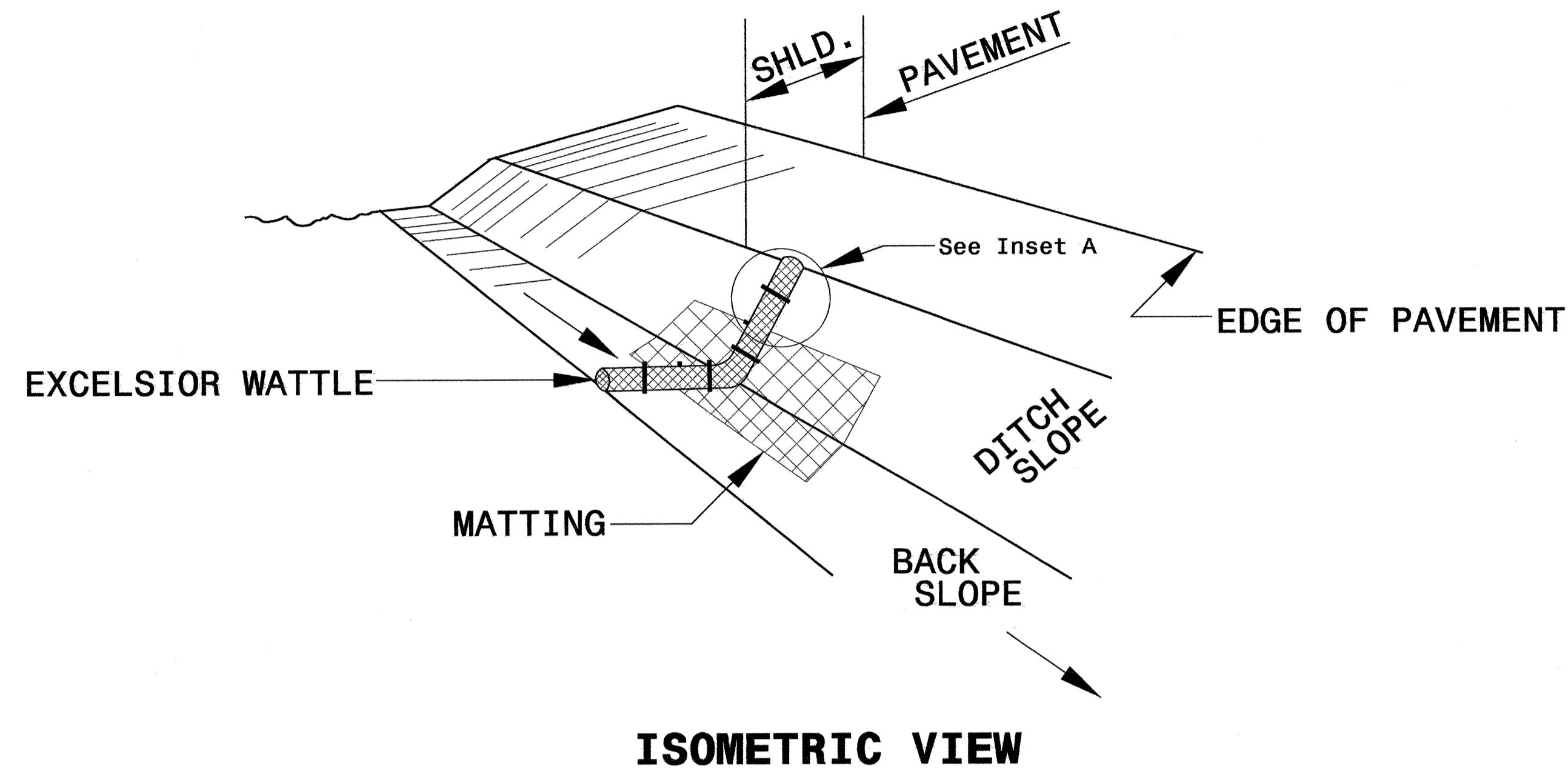
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

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PROJECT REFERENCE NO. B-4749	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# 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.

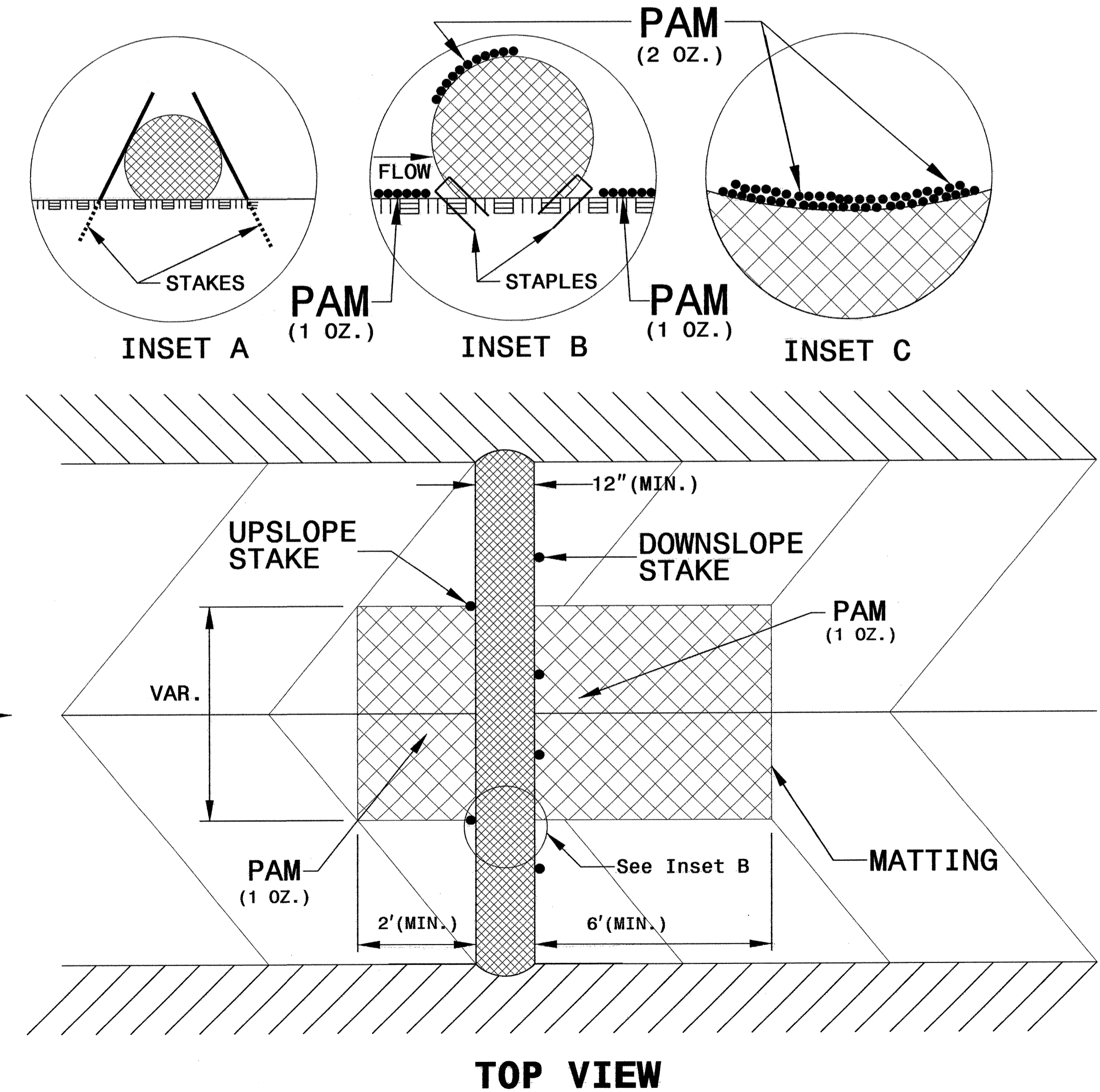
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

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PROJECT REFERENCE NO. <i>B-4749</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

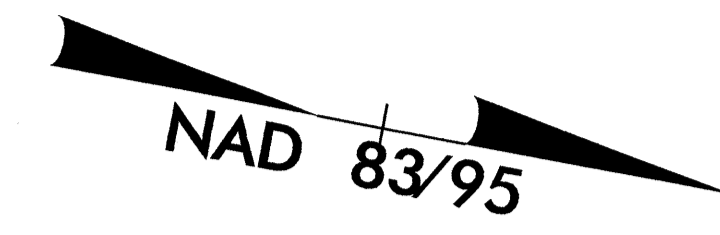
# ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (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.

8/17/99

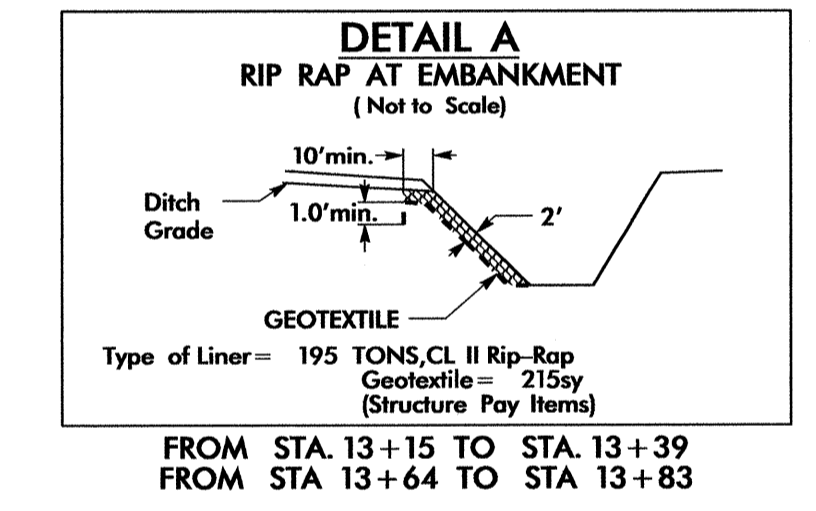
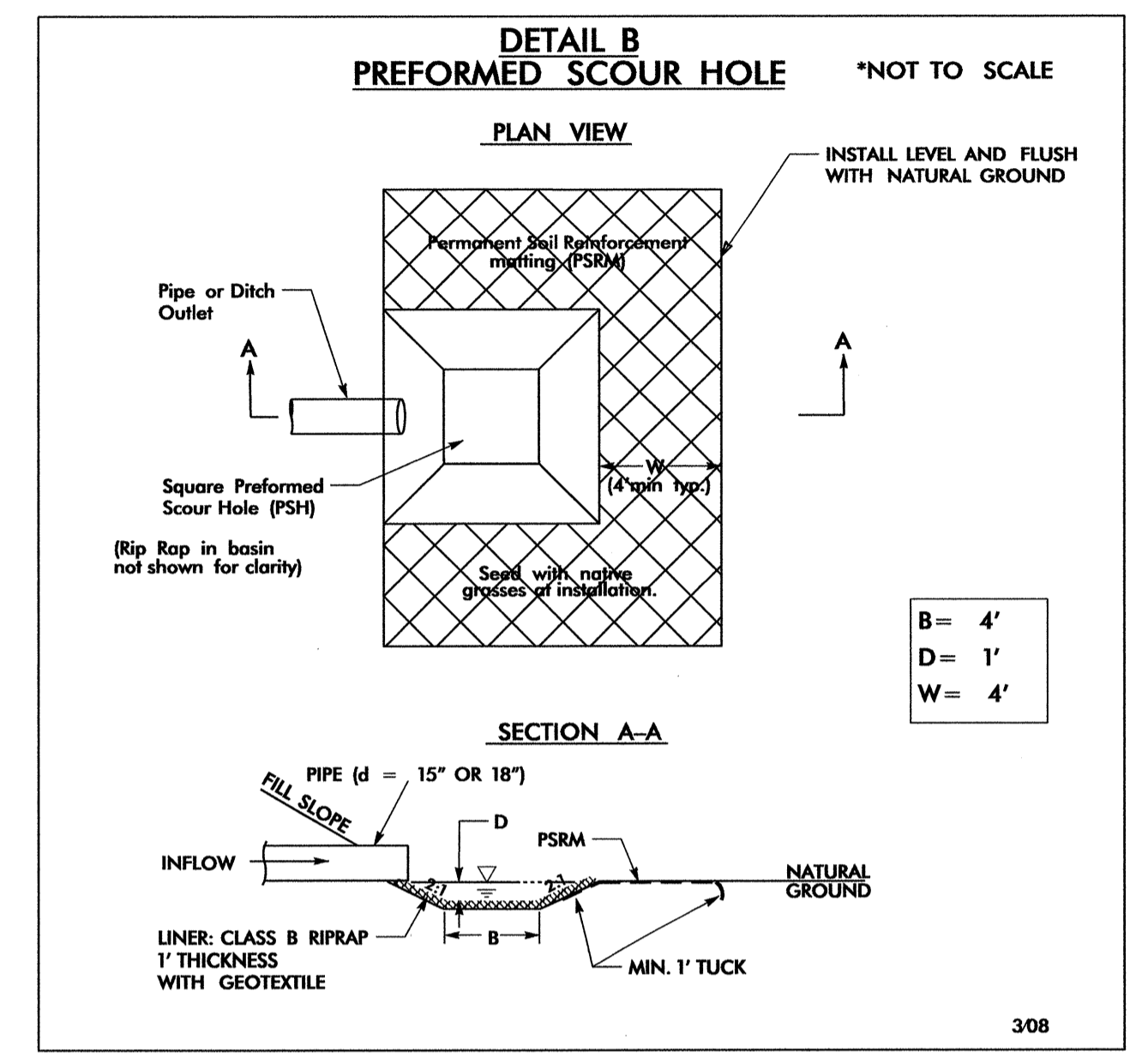
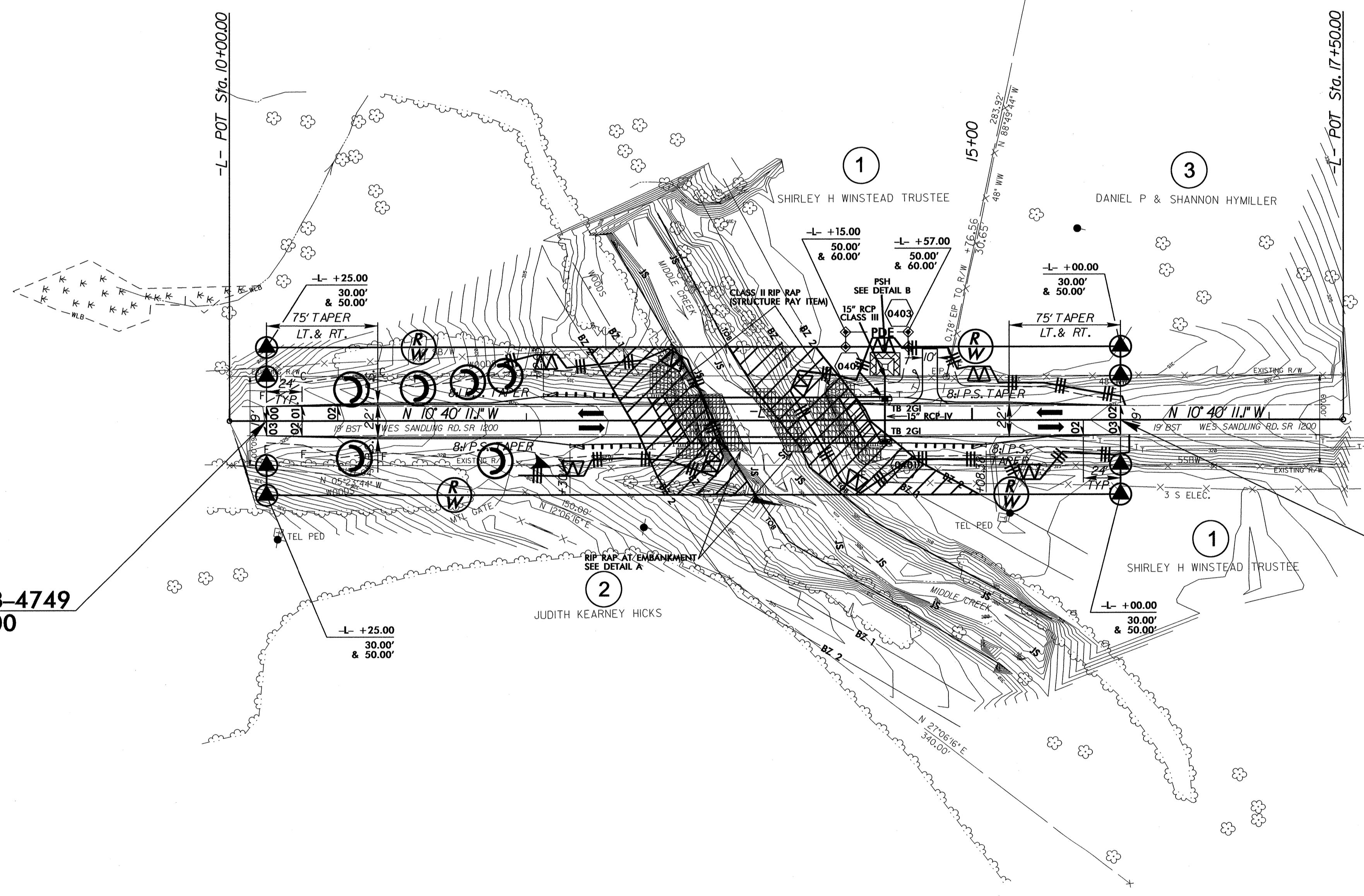
PROJECT REFERENCE NO. B-4749	SHEET NO. EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.



BEGIN TIP PROJECT B-4749  
-L- POT STA. 10+25.00

END TIP PROJECT B-4749  
-L- POT STA. 16+00.00



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

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

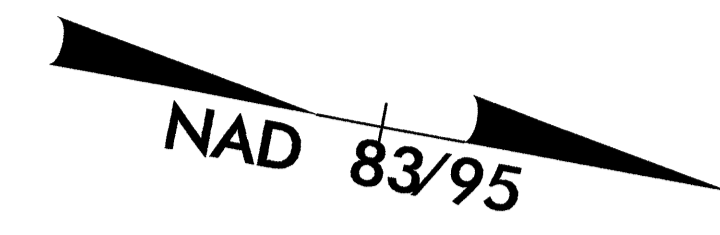


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8/17/99

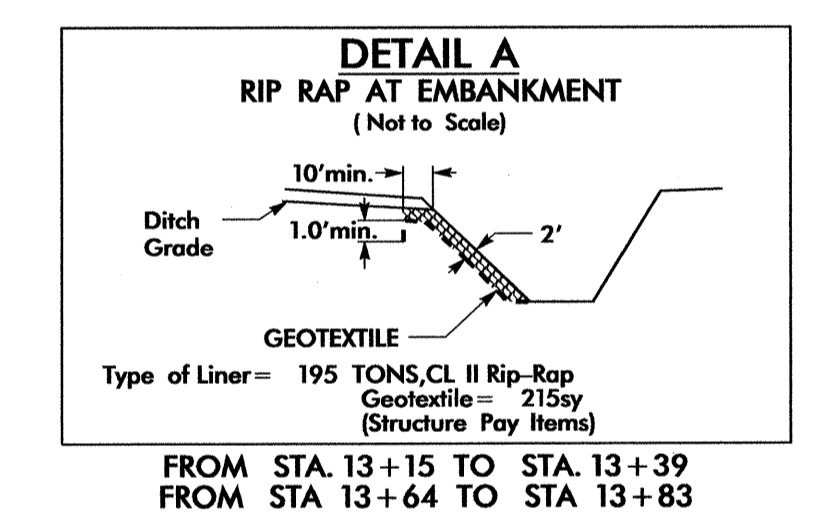
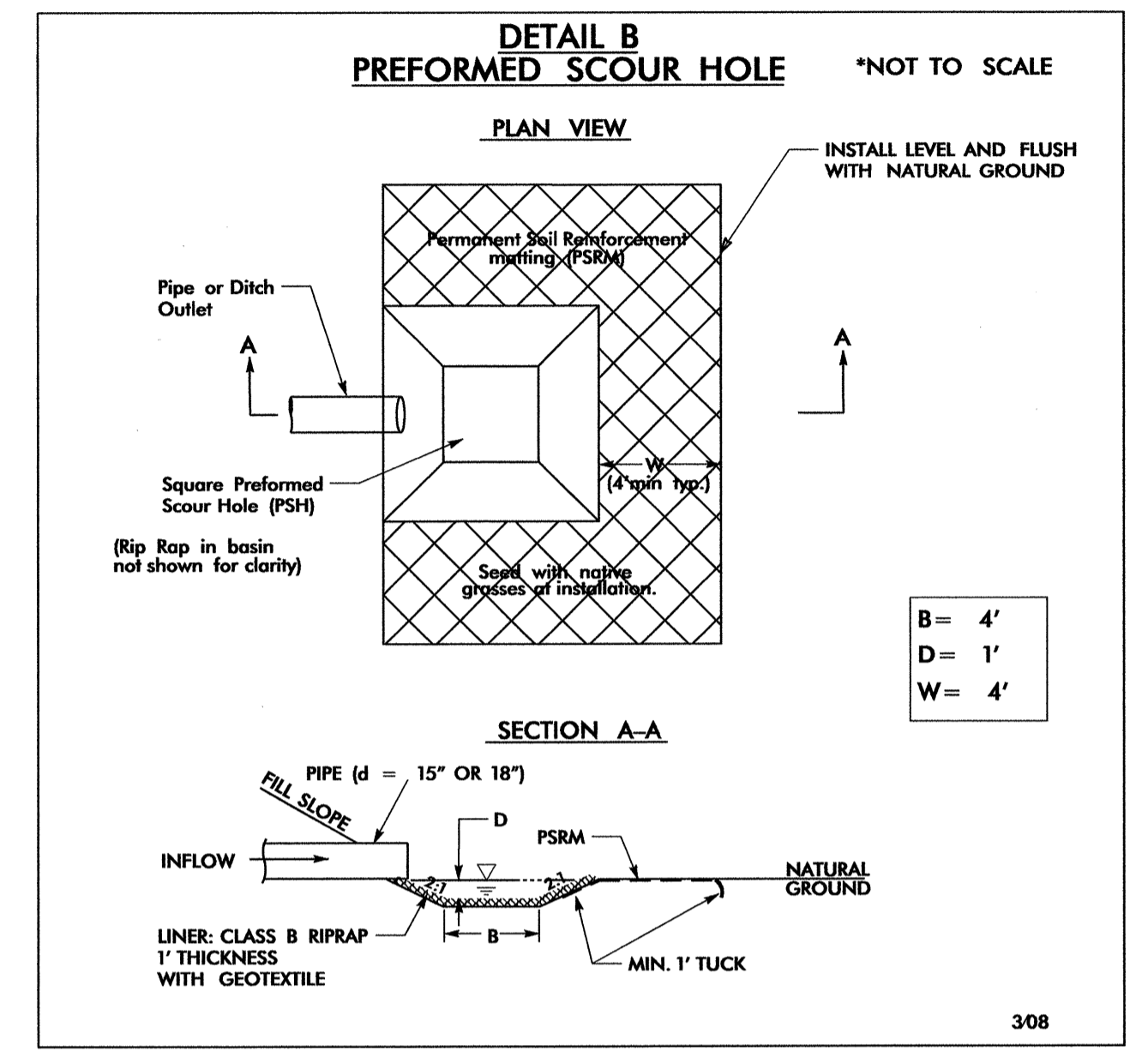
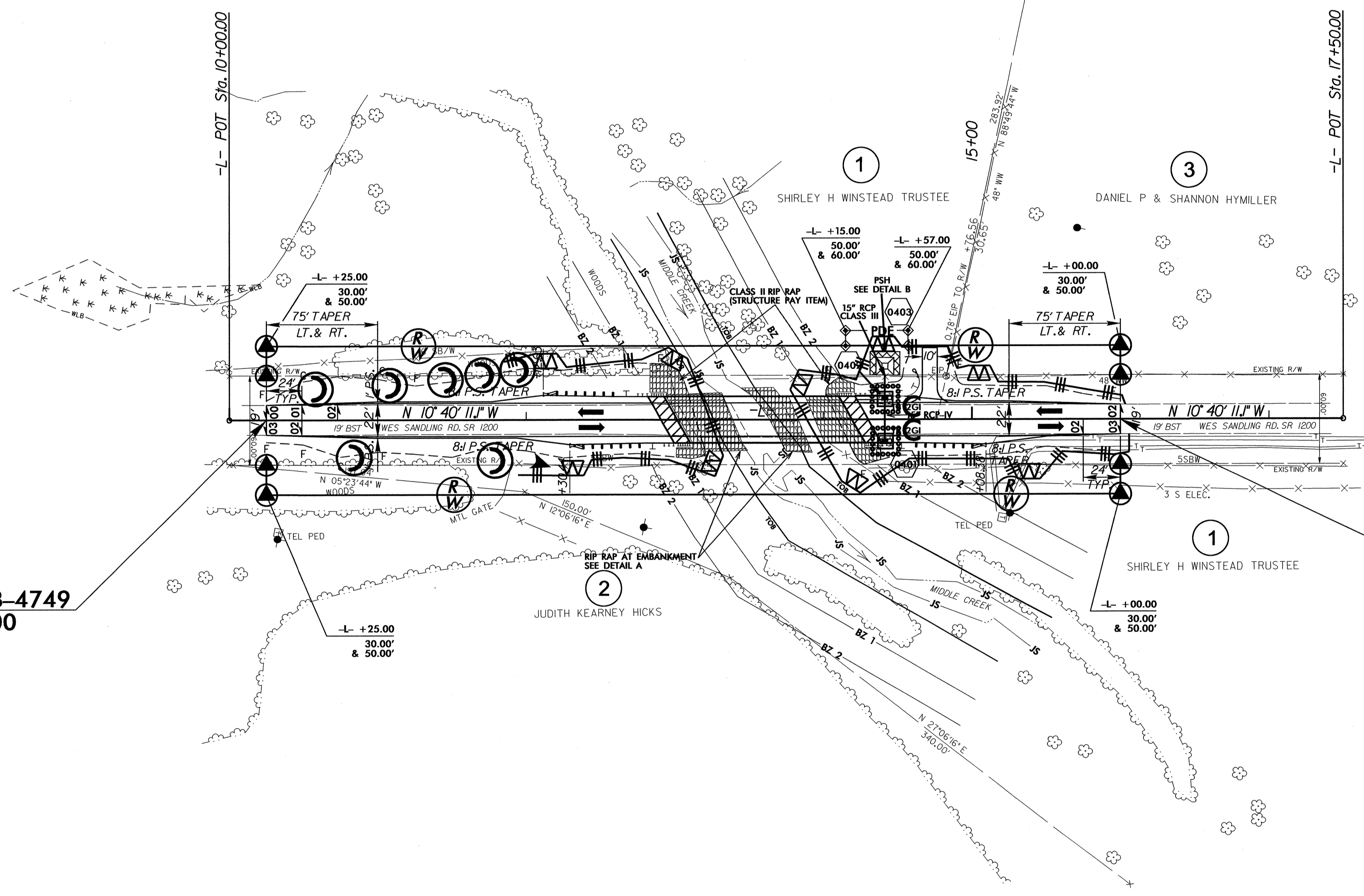
PROJECT REFERENCE NO. B-4749	SHEET NO. EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.



**BEGIN TIP PROJECT B-4749**  
-L- POT STA. 10+25.00

**END TIP PROJECT B-4749**  
-L- POT STA. 16+00.00



9/25/2013 14:00  
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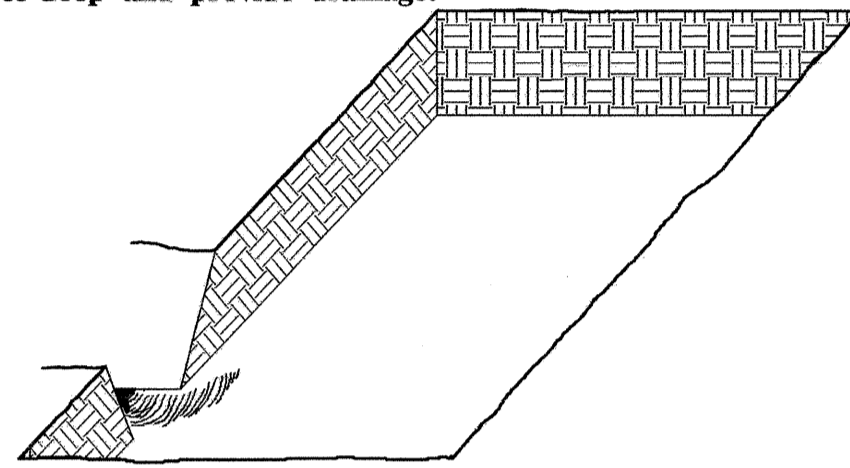


## PLANTING DETAILS

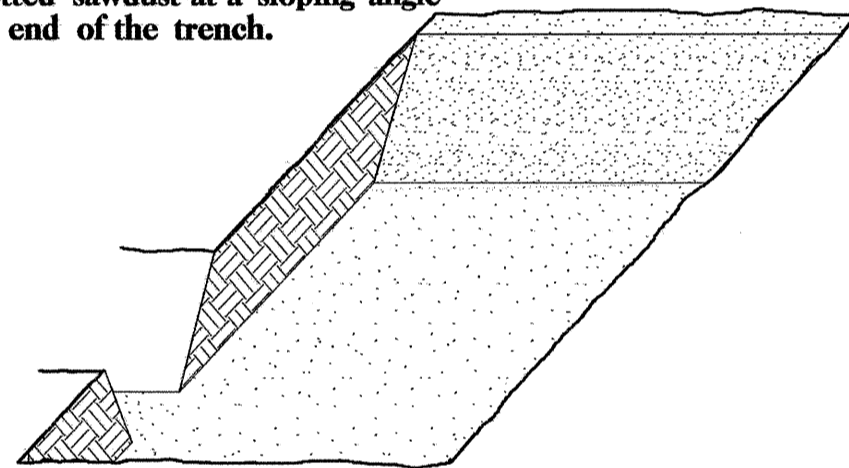
### SEEDLING / LINER BAREROOT PLANTING DETAIL

#### HEALING IN

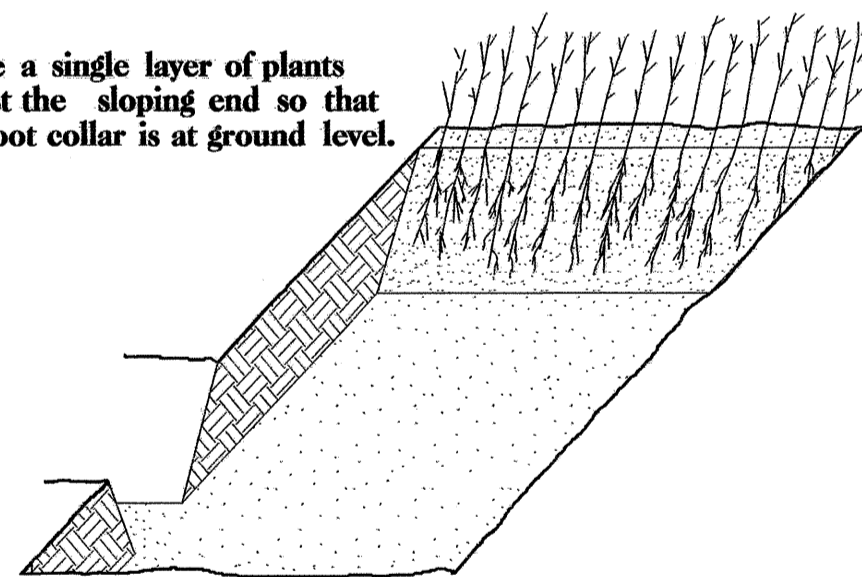
1. Locate a healing-in site in a shady, well protected area.
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



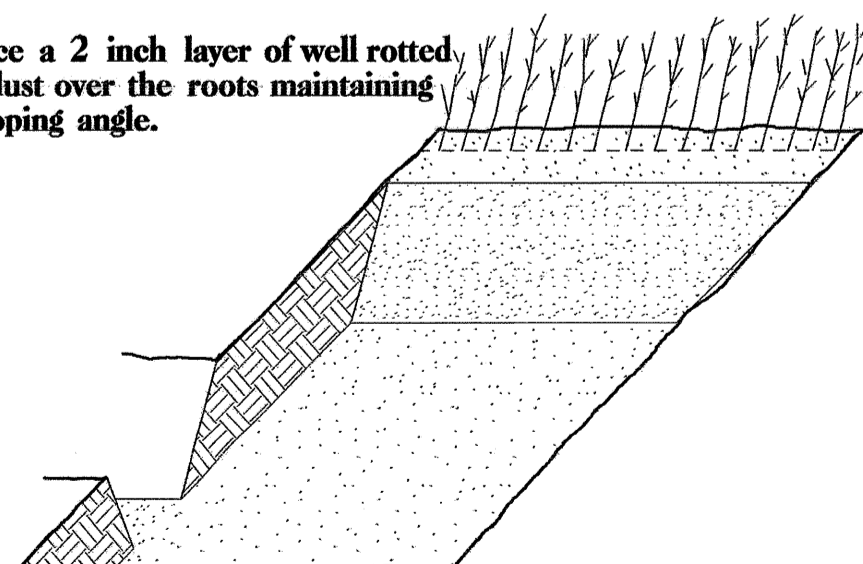
3. Backfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



4. Place a single layer of plants against the sloping end so that the root collar is at ground level.

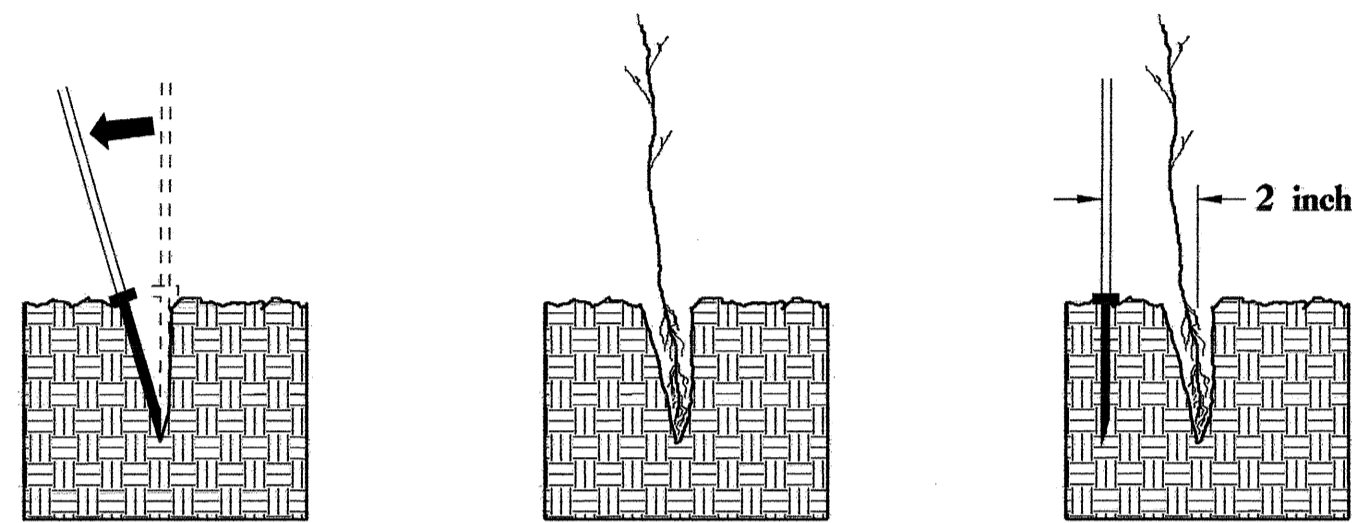


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.

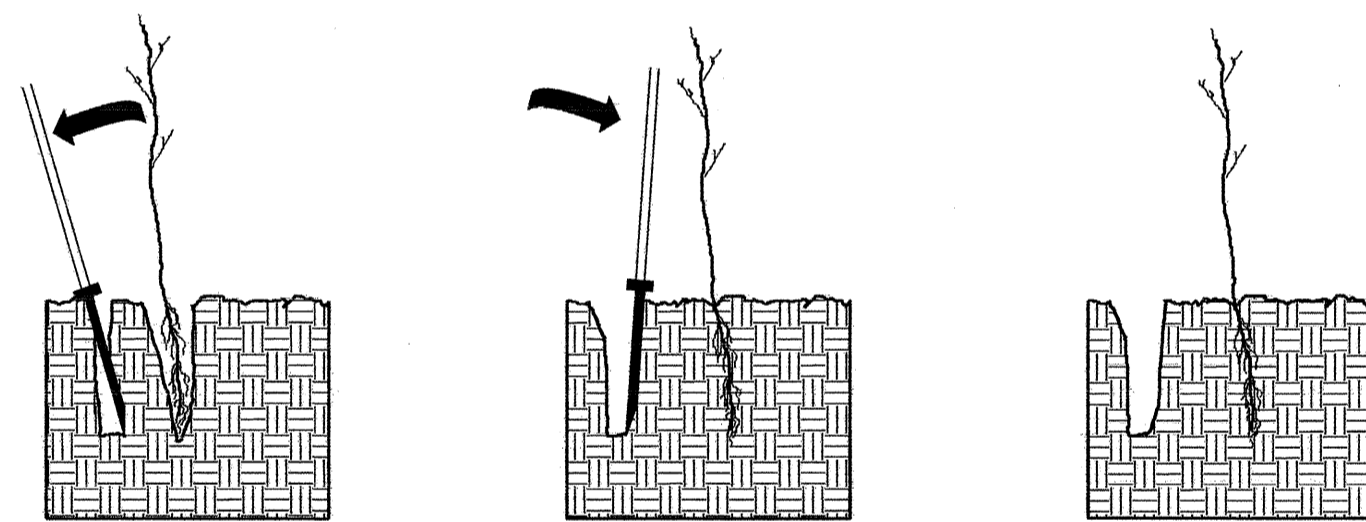


6. Repeat layers of plants and sawdust as necessary and water thoroughly.

#### DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR



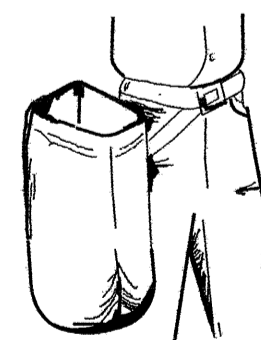
1. Insert planting bar as shown and pull handle toward planter.
2. Remove planting bar and place seedling at correct depth.
3. Insert planting bar 2 inches toward planter from seedling.



4. Pull handle of bar toward planter, firming soil at bottom.
5. Push handle forward firming soil at top.
6. Leave compaction hole open. Water thoroughly.

#### PLANTING NOTES:

**PLANTING BAG**  
During planting, seedlings shall be kept in a moist canvas bag or similar container to prevent the root systems from drying.



**KBC PLANTING BAR**  
Planting bar shall have a blade with a triangular cross section, and shall be 12 inches long, 4 inches wide and 1 inch thick at center.



**ROOT PRUNING**  
All seedlings shall be root pruned, if necessary, so that no roots extend more than 10 inches below the root collar.

## REFORESTATION

- TREE REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.

#### REFORESTATION

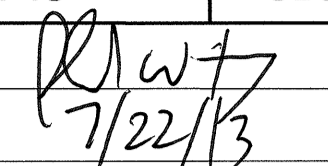

MIXTURE, TYPE, SIZE, AND FURNISH SHALL CONFORM TO THE FOLLOWING:

30% PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	12 in - 18 in BR
30% BETULA NIGRA	RIVER BIRCH	12 in - 18 in BR
40% QUERCUS ALBA	WHITE OAK	12 in - 18 in BR

## REFORESTATION DETAIL SHEET

N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

TIP NO. B-4749	SHEET NO. SIGN-1
APPROVED: 	
DATE: 7/22/13	
SEAL	
	

SIGNING PLAN  
FRANKLIN COUNTY

LOCATION: BRIDGE NO. 27 OVER MIDDLE CREEK  
ON SR 1200 (WES SANDLING RD.)

T.I.P.: B-4749

CONTRACT: C203259

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	61	L.F.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	5	EA.
4096000000	904	SIGN ERECTION, TYPE D	2	EA.

ROADWAY STANDARD DRAWING

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:

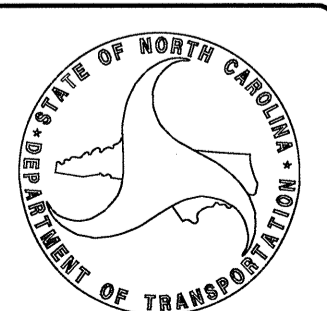
STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

- SIGNS FURNISHED BY STATE
- ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- SIGNIGN PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING. SHALL BE FIELD LOCATED BY THE ENGINEER
- ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

PLAN PREPARED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

SUSAN B. KUNZ SIGNING & DELINEATION REGIONAL ENGINEER  
ADAM GRADY SIGNING & DELINEATION DESIGN ENGINEER



SIGN NUMBER: 301, 302  
TYPE: D  
QUANTITY: 2

BACKG COLOR: Green  
COPY COLOR: White

DESIGN BY: A. GRADY  
PROJECT ID: B-4749

CHECKED BY: S. KUNZ  
DIV: 5

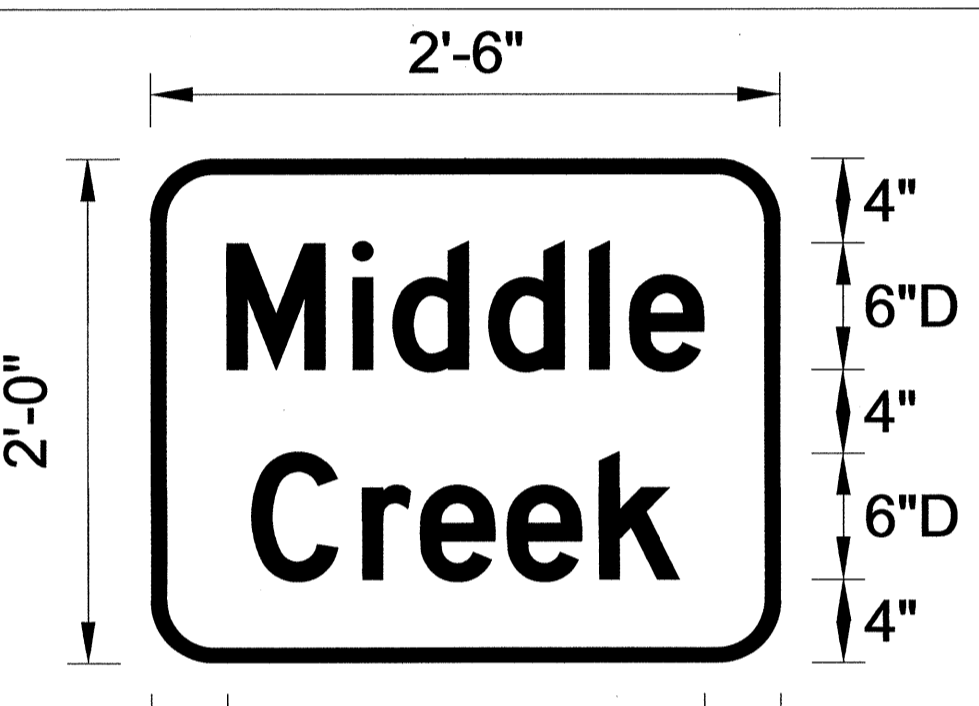
DATE: Jun 11, 2013

SIGN WIDTH: 2'-6"  
HEIGHT: 2'-0"  
TOTAL AREA: 5.0 Sq.Ft.

BORDER TYPE: FLUSH  
RECESS: 0"  
WIDTH: 0.75"  
RADII: 3"

NO. Z BARS: \_\_\_\_\_  
LENGTH: \_\_\_\_\_

MAT'L: 0.125" (3.2 mm) ALUMINUM



USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter										Series/Size	
	M	i	d	d	l	e				Text Length	
	3.6	6	1.9	4.6	4.8	1.9	3.5	3.6			D 2000
											22.7
											D 2000
	4.8	5.3	2.8	4.1	4.4	3.8	4.8				20.4


Spacing Factor is 1 unless specified otherwise

FILENAME: Sign Design NORTH CAROLINA D.O.T. SIGN DETAIL

INDEX

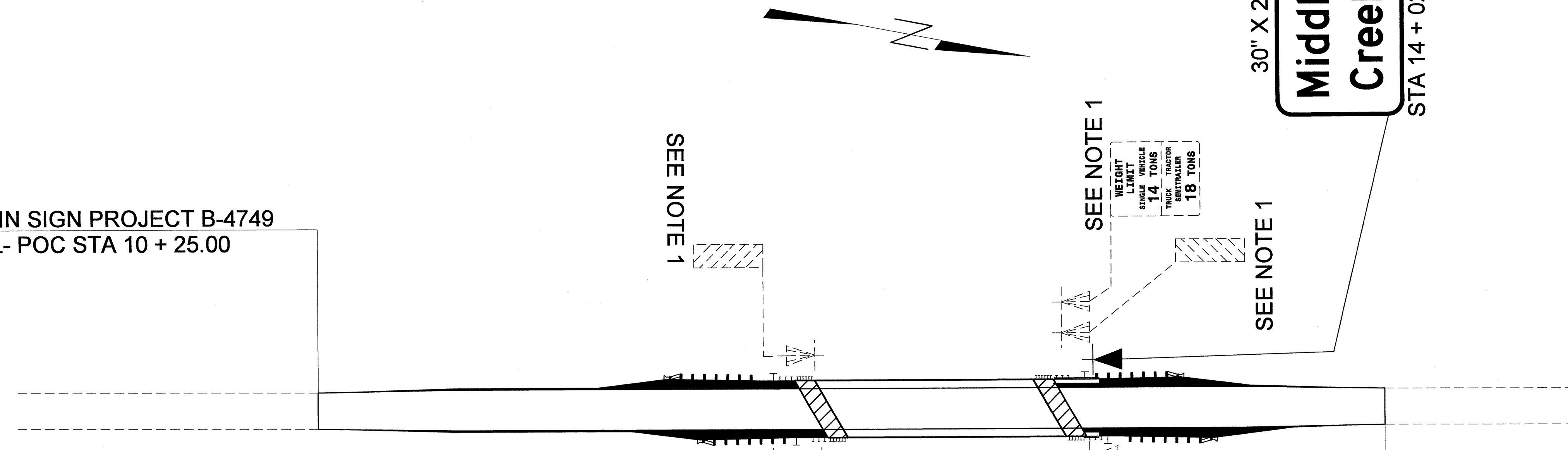
SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET, SIGN DESIGN AND NOTES
SIGN-2	SIGN DETAIL SHEET

22-Jul-2013 15:35 C:\projects\B4749\Traffic\Signing\CADD\Signing\_Layout\_Plans\Bridgeseed.dgn

TIP NO. B-4749	SHEET NO. SIGN-2
APPROVED: <i>RW</i>	
DATE: 7/22/13	
SEAL	
	

BEGIN SIGN PROJECT B-4749  
-L- POC STA 10 + 25.00

END SIGN PROJECT B-4749  
-L- POC STA 16 + 00.00



30" X 24"  
**Middle Creek**  
301  
STA 12 + 99 +/-

30" X 24"  
**Middle Creek**  
302  
STA 14 + 02 +/-

SEE NOTE 1

WEIGHT LIMIT	
SINGLE VEHICLE	14 TONS
TRUCK TRACTOR	18 TONS
TRUCK TRACTOR SEMITRAILER	18 TONS

SEE NOTE 1

WEIGHT LIMIT	
SINGLE VEHICLE	14 TONS
TRUCK TRACTOR	18 TONS
TRUCK TRACTOR SEMITRAILER	18 TONS

**PROJECT NOTES**

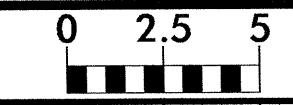
1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
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**SIGN DETAIL SHEET**

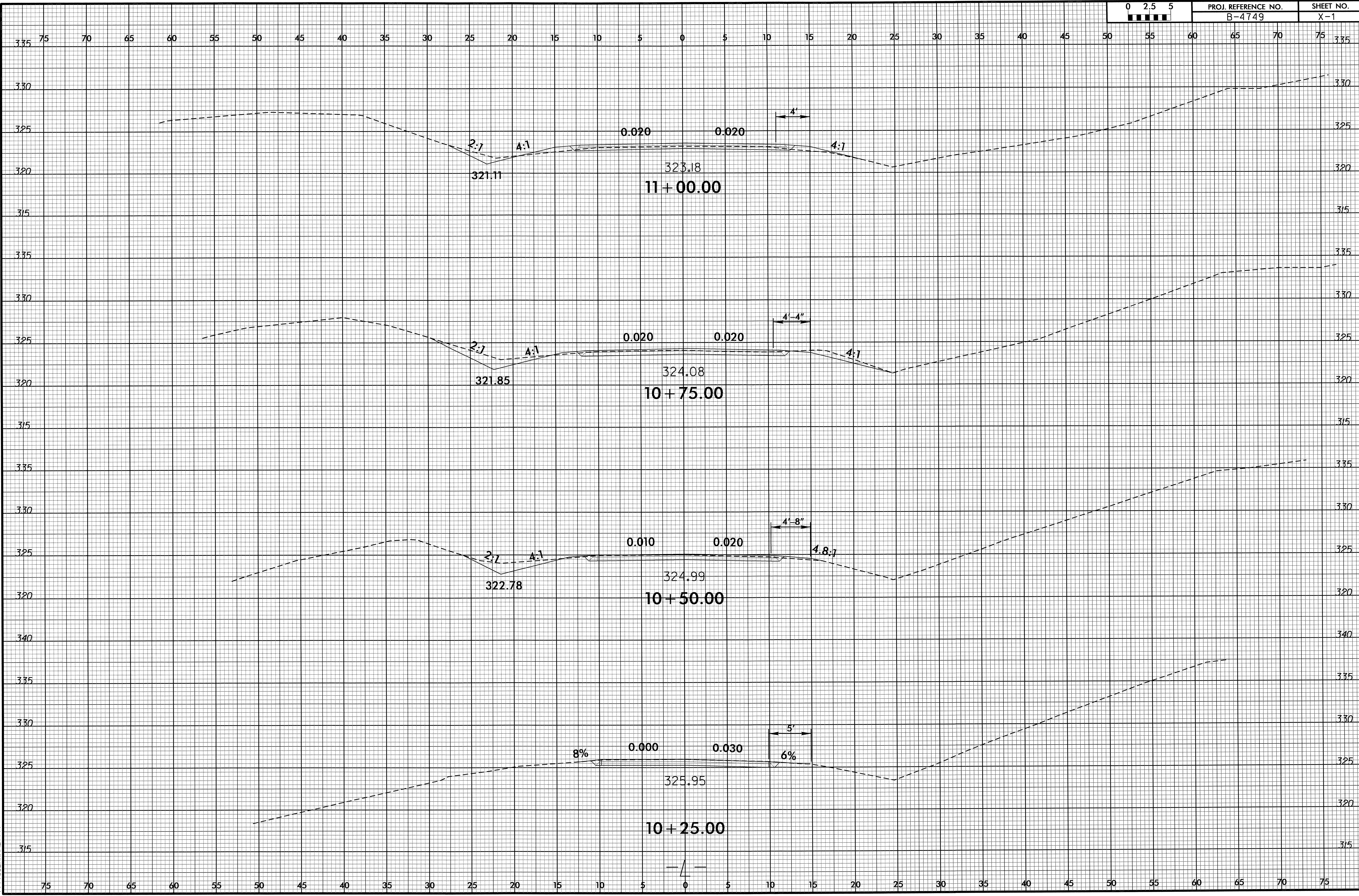
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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
B-4749	X-1



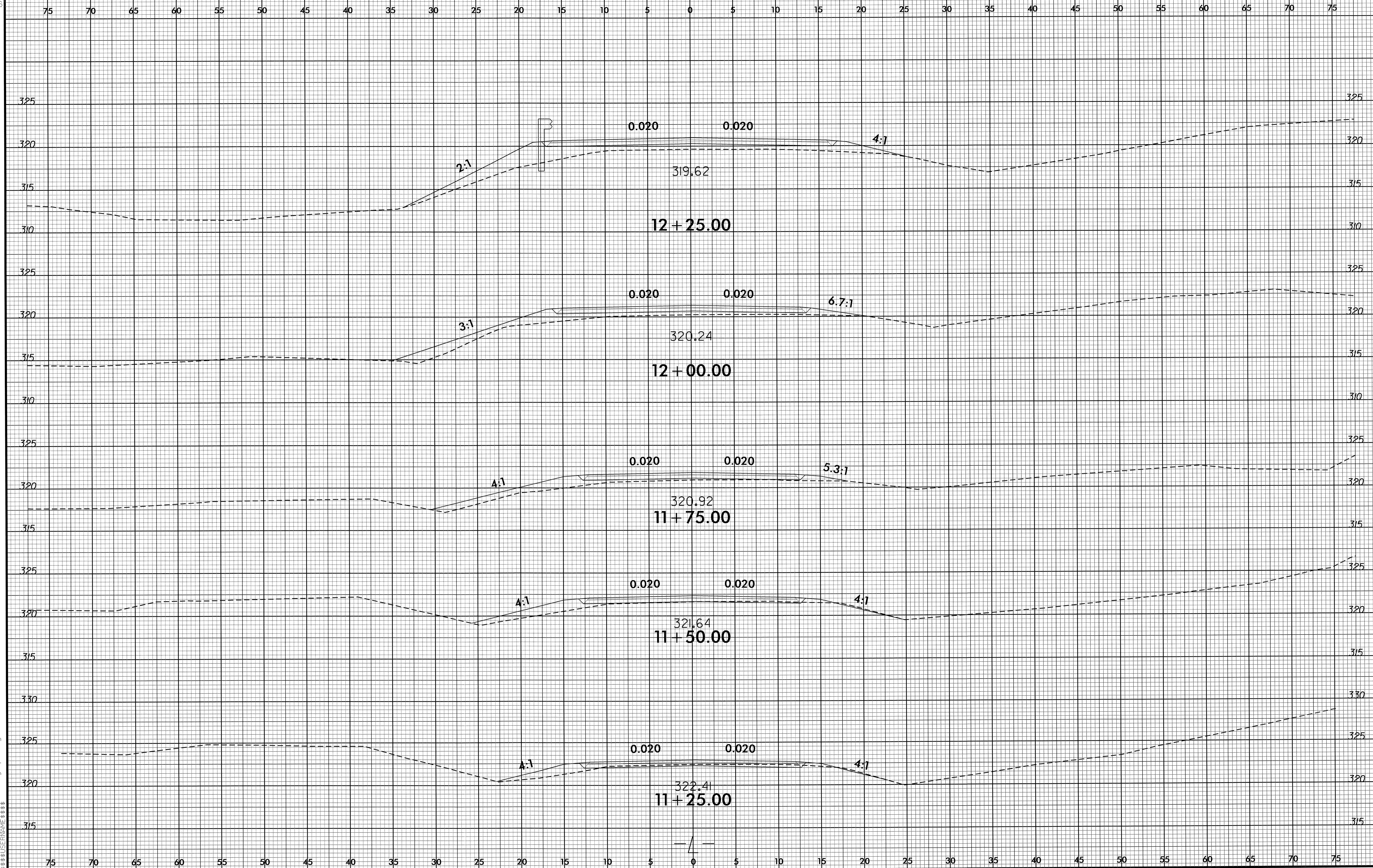
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8/23/99



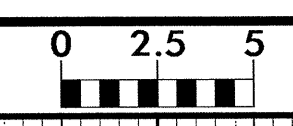
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B-4749

SHEET NO.  
X-2



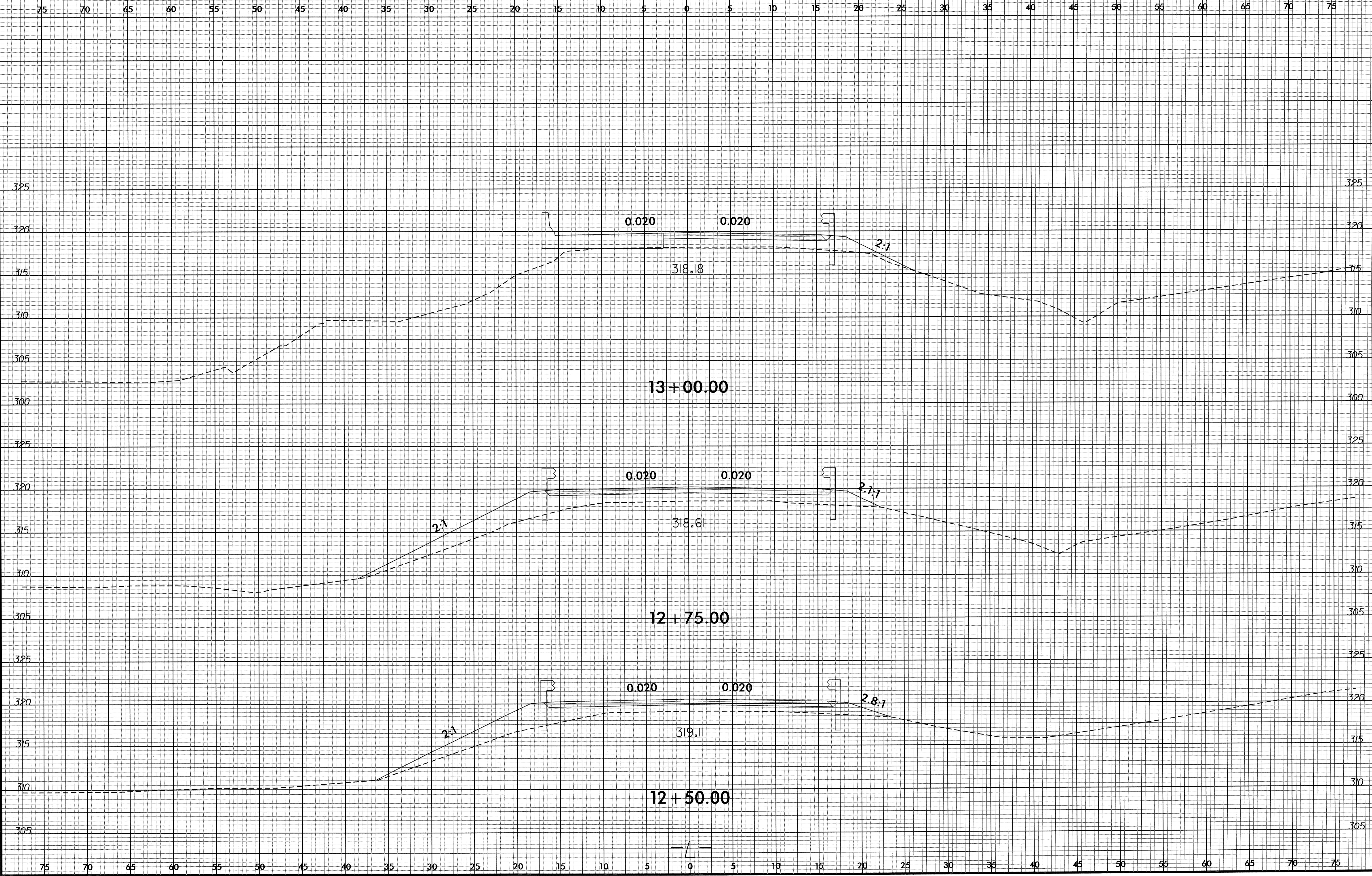
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8/23/99



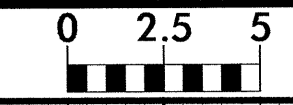
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B-4749

SHEET NO.  
X-3



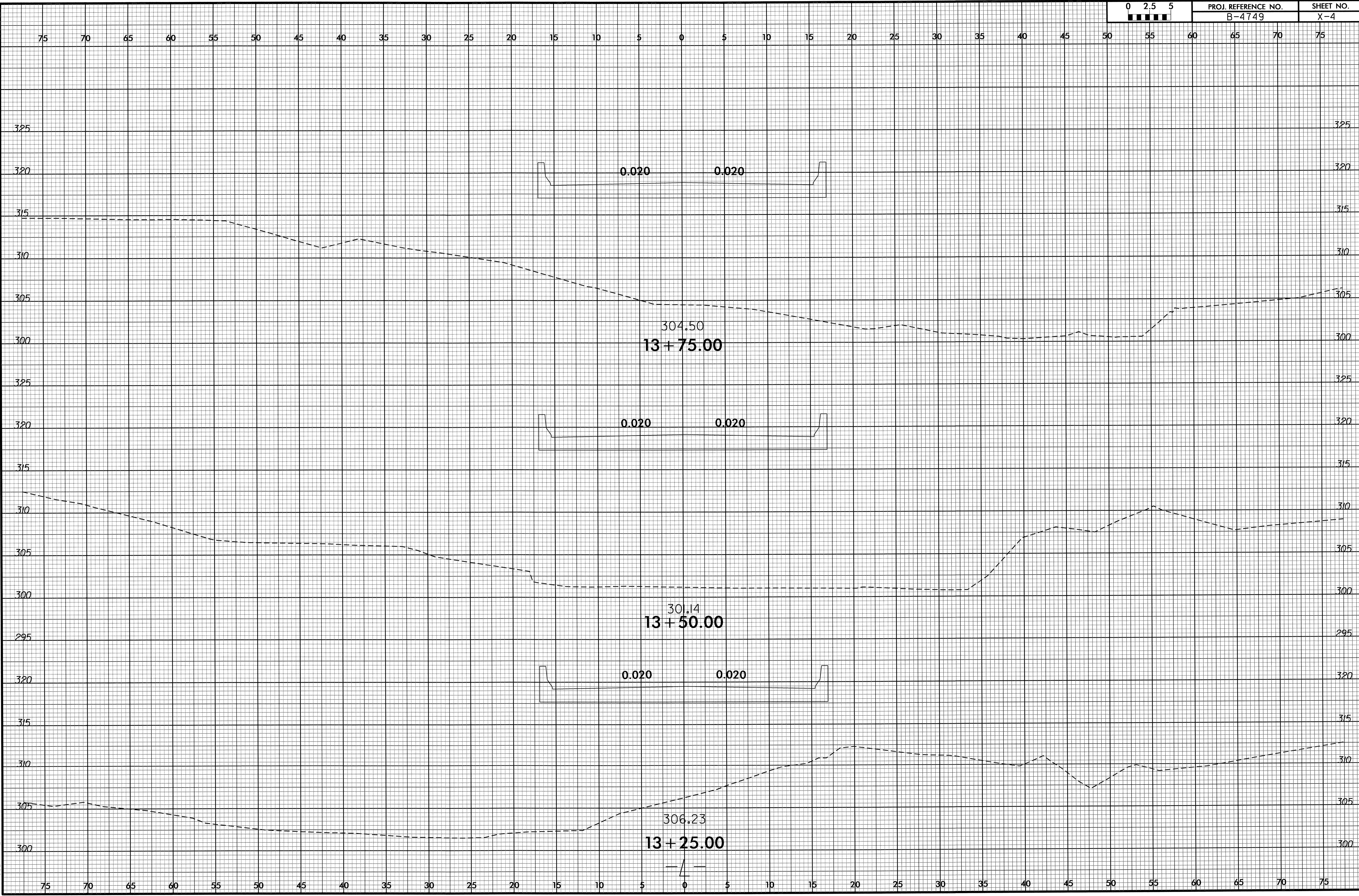
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8/23/99



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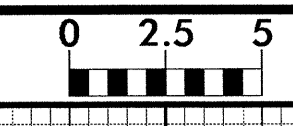
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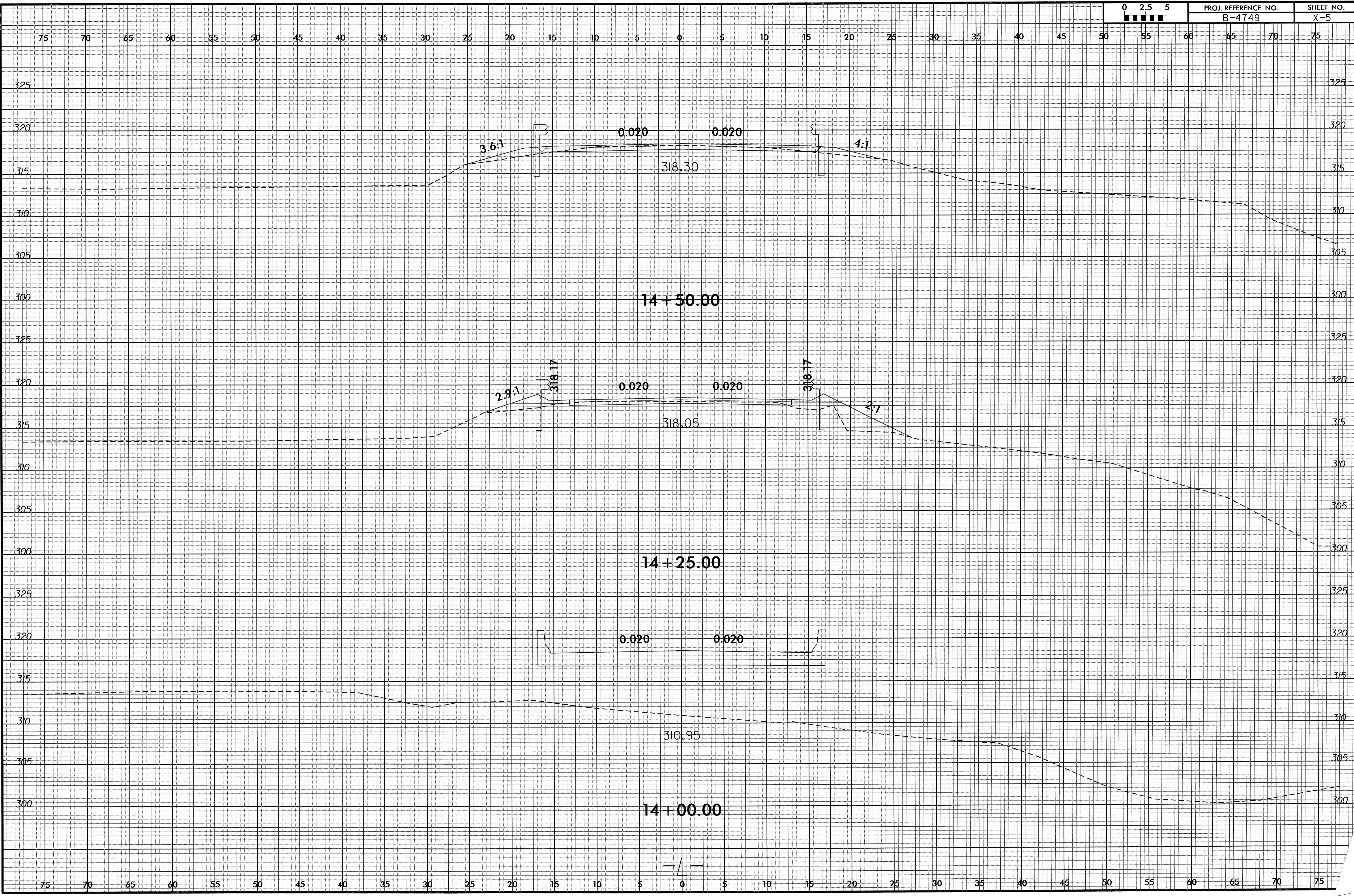
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8/23/09

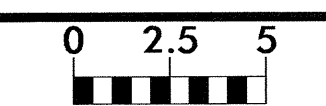


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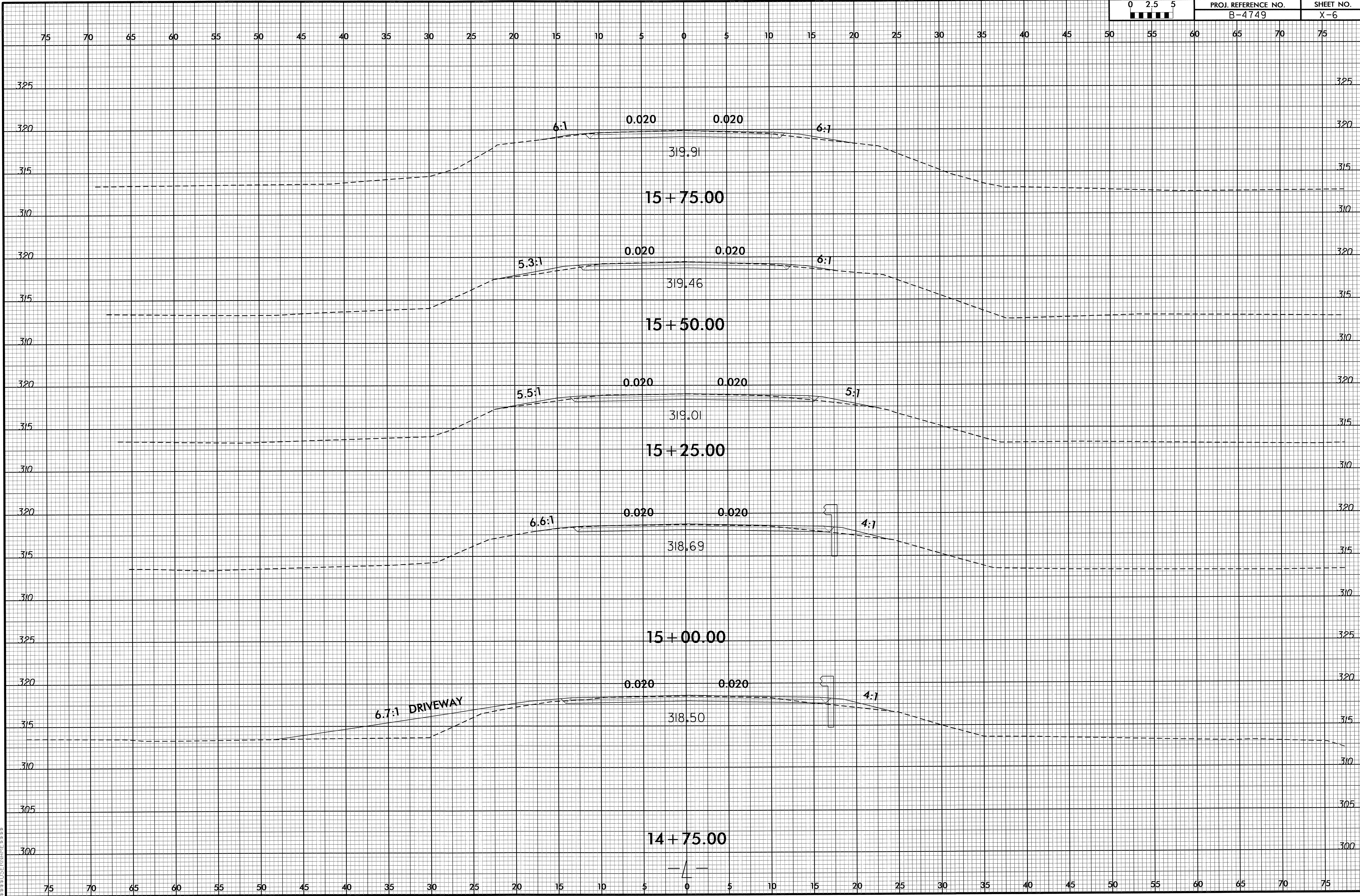
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8/23/99



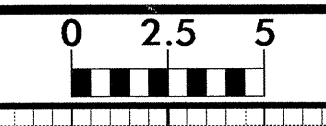
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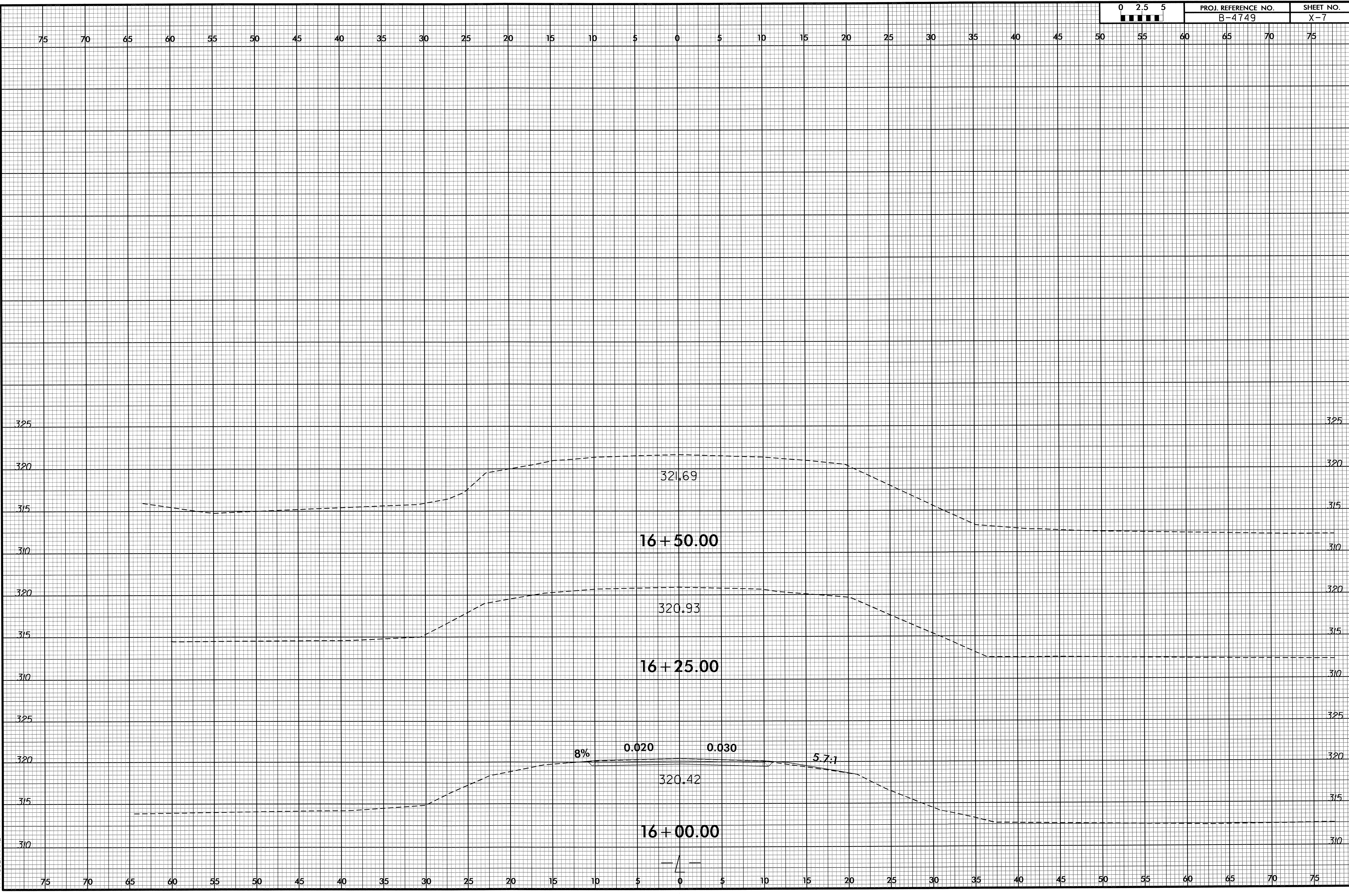


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8/23/99



PROJ. REFERENCE NO.	SHEET NO.
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