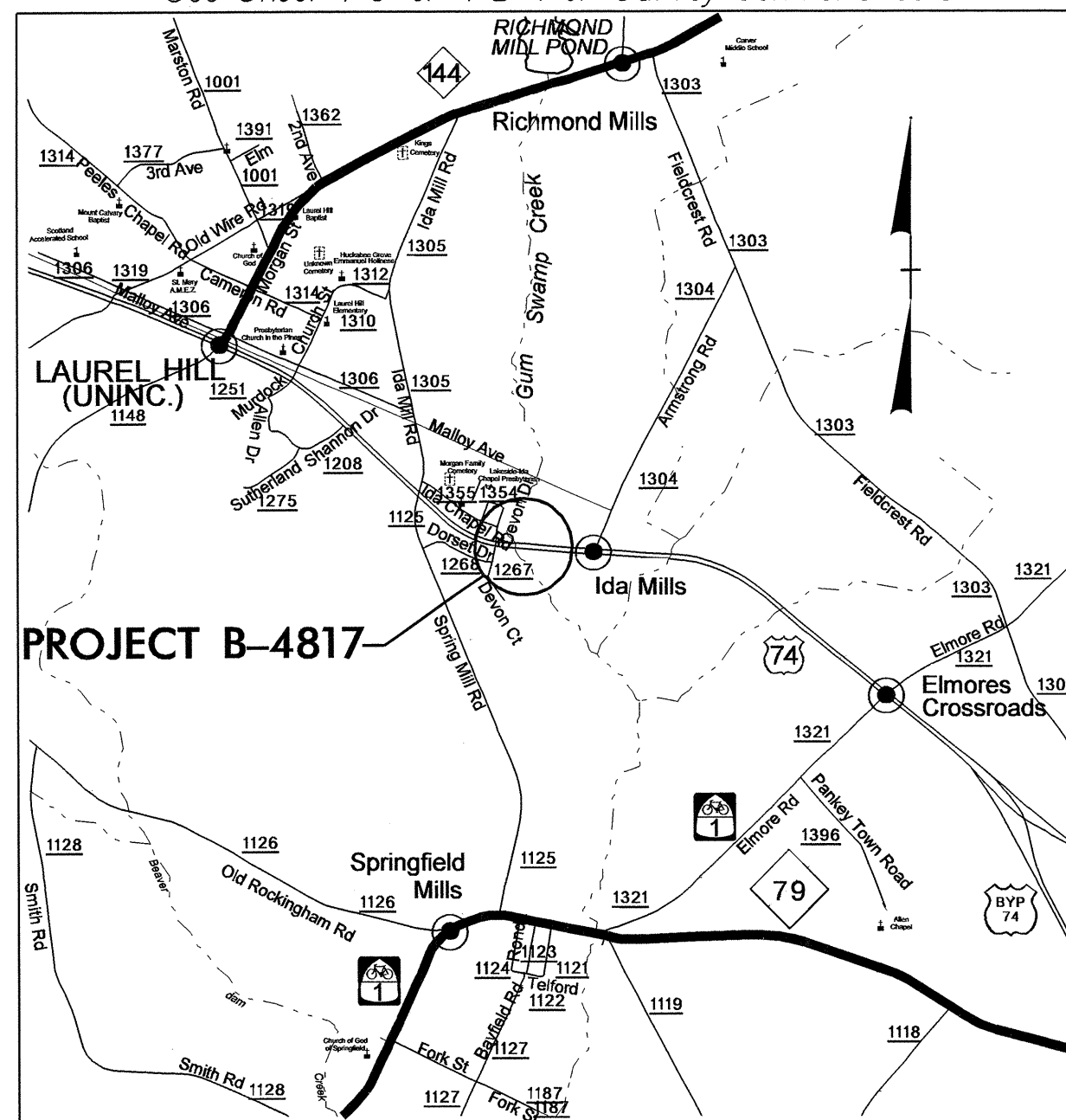


09/08/11

See Sheet 1-A For Index of Sheets
 See Sheet 1-B For Conventional Symbols
 See Sheet 1-C & 1-D For Survey Control Sheets



VICINITY MAP

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SCOTLAND COUNTY

LOCATION: BRIDGE NO. 23 ON US 74 (FUTURE I-74) WBL OVER GUM SWAMP CREEK

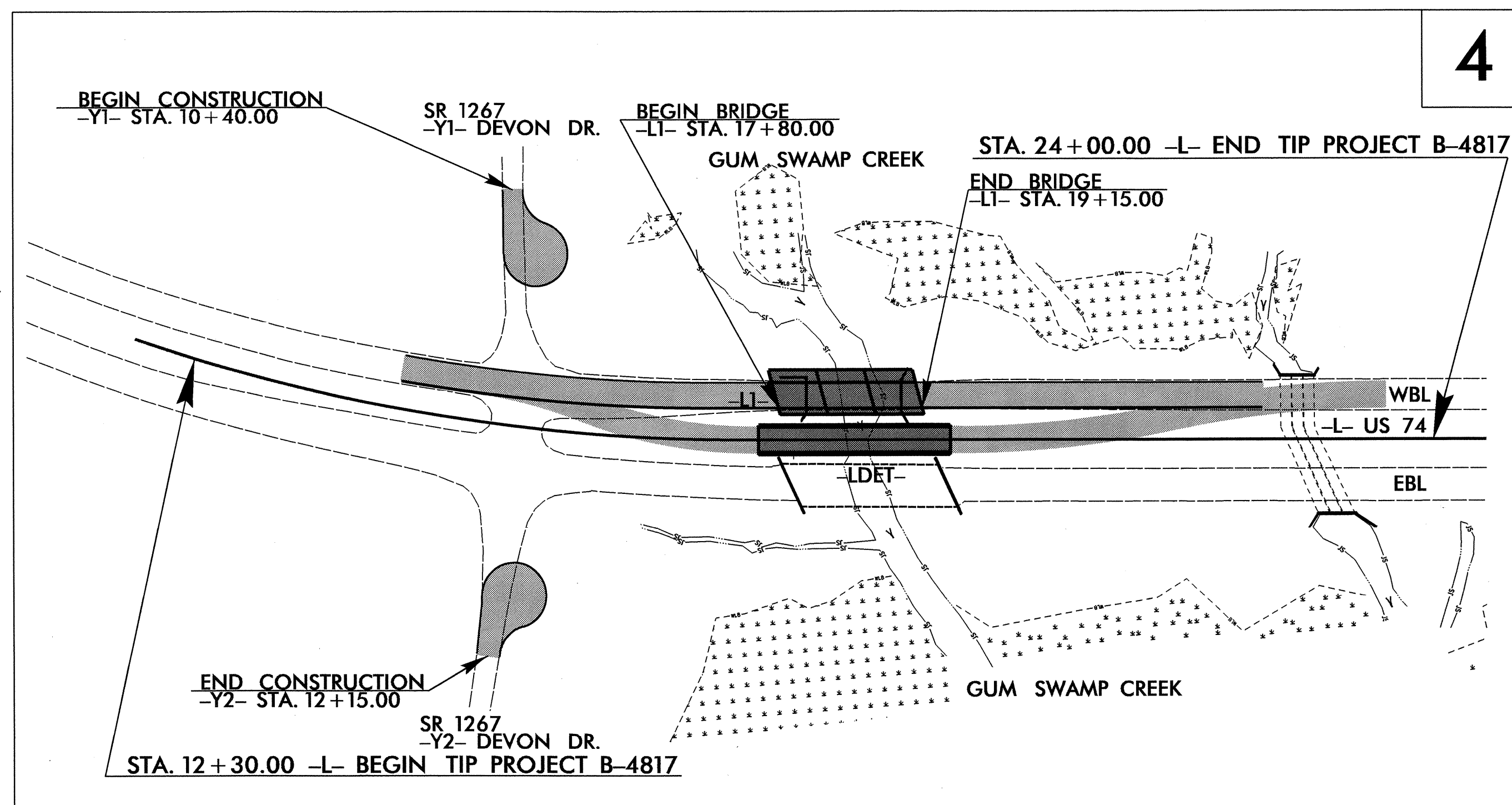
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4817	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
38587.1.1	BRNHS-74(71)	PE	
38587.2.1	BRNHS-74(71)	RW & UTILITIES	
38587.3.1	BRNHS-74(71)	CONST.	

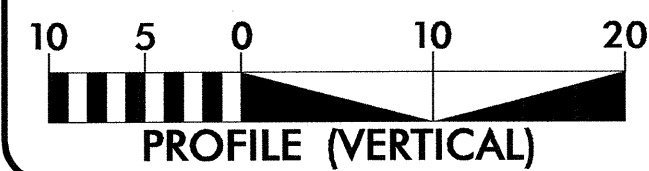
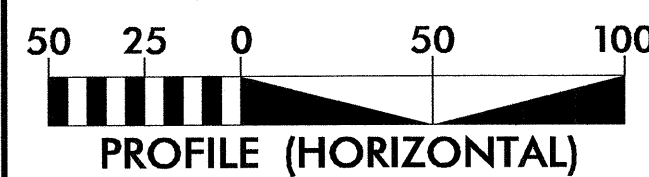
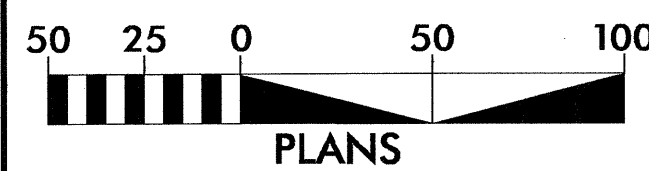


TIP PROJECT: B-4817

CONTRACT: C203022



GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 27000
 ADT 2035 = 45400
 DHV = 10 %
 D = 60 %
 T = 20 % *
 V = 60 MPH
 V_{DET} = 40 MPH
 *TTST=17% DUAL=3%
 FUNC CLASS=PRINCIPAL ARTERIAL
 "STATEWIDE TIER"

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4817 = 0.196 MILES
 LENGTH STRUCTURE TIP PROJECT B-4817 = 0.026 MILES
 TOTAL LENGTH OF TIP PROJECT B-4817 = 0.222 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

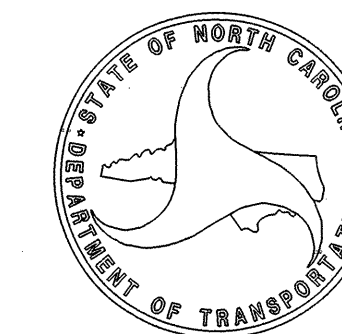
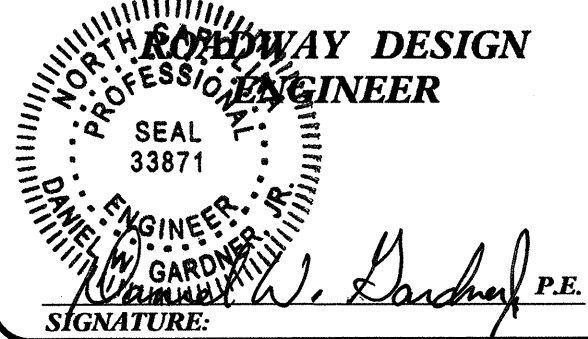
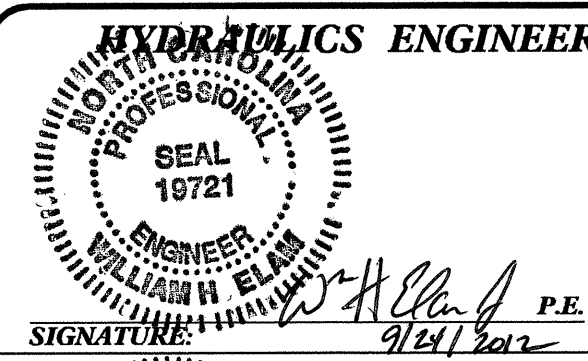
2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 NOVEMBER 30, 2011

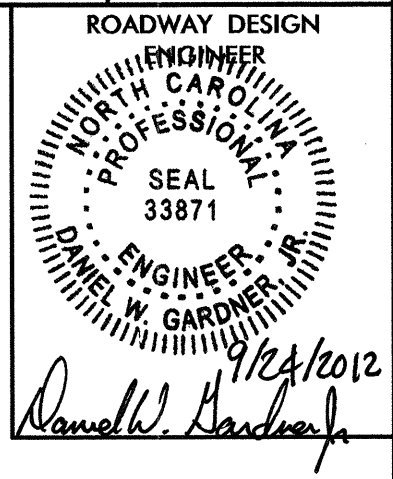
LETTING DATE:
 DECEMBER 18, 2012

JAMES A. SPEER, PE
 PROJECT ENGINEER

DANIEL W. GARDNER, JR., PE
 PROJECT DESIGN ENGINEER



10-SEP-2012 14:13 R:\Roadway\Proj\B4817_rdy_tsh.dgn \$\$\$USERNAME\$\$\$



SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL PLAN SHEET SYMBOLS
1-C THRU 1-D	SURVEY CONTROL SHEETS
2 THRU 2-A	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3-A	SUMMARY OF DRAINAGE QUANTITIES AND GUARDRAIL SUMMARY
3-B	SUMMARY OF EARTHWORK, SUMMARY OF REMOVAL OF EXISTING ASPHALT PAVEMENT, AND SHOULDER BERM GUTTER SUMMARY
4	PLAN SHEET
4-A	DETOUR PLAN SHEET
5 THRU 6	PROFILE SHEETS
TMP-1 THRU TMP-8	TRANSPORTATION MANAGEMENT PLANS
PMP-1	PAVEMENT MARKING PLANS
EC-1 THRU EC-6	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-2	SIGNING PLANS
UD-1 THRU UD-2	UTILITIES BY OTHERS PLANS
X-1	CROSS-SECTION SUMMARY SHEET
X-2 THRU X-13	CROSS-SECTIONS
S-1 THRU S-34	STRUCTURE PLANS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01/17/12
REVISED: 07/30/12

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 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. 560.02.

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 NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".

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
City of Laurinburg - Water
AT&T - Telephone

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:

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

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	
200.03	Method of Clearing - Method III
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.04	Method of Obtaining Super-elevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 4 - MAJOR STRUCTURES	
422.10	Reinforced Bridge Approach Fills
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.02	Method of Shoulder Construction - High Side of Super-elevated Curve - Method II (Sheet 2 of 3 is no longer applicable)
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
840.00	Concrete Base Pad for Drainage Structures
840.19	Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.24	Frames and Narrow Slot Sag Grates
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.28	Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.66	Drainage Structure Steps
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
862.03	Structure Anchor Units
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
876.01	Rip Rap in Channels

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	□ ECM
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	-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	□
Church	□
Dam	□

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	-----
False Sump	▽

RAILROADS:

Standard Gauge	-----
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	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	○ R/W
Proposed Right of Way Line with Concrete or Granite R/W Marker	○ R/W
Proposed Control of Access Line with Concrete CA Marker	○ CA
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	○
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	----- P
Designated U/G Power Line (S.U.E.*)	----- P

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

TV:

TV Satellite Dish	☞
TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	□
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.*)	----- G
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	□
Utility Unknown U/G Line	----- UTL
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	□ UST
AG 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-4817

LOCALIZED PROJECT COORDINATES
-L- STA. 12+30.00 BEGIN TIP PROJECT B-4817
N = 382553.2838
E = 1839648.4587

NCDOT BASELINE STATION "BL-101"
 LOCALIZED PROJECT COORDINATES
 N = 382656.5260
 E = 1839454.8120

NCDOT BASELINE STATION "BY1-106"
 LOCALIZED PROJECT COORDINATES
 N = 382706.5700
 E = 1839945.2900

NCDOT BASELINE STATION "BL-103"
 LOCALIZED PROJECT COORDINATES
 N = 382424.9580
 E = 1840658.1260

NCDOT BASELINE STATION "BY2-108"
 LOCALIZED PROJECT COORDINATES
 N = 382614.4960
 E = 1841694.3230

NCDOT BASELINE STATION "BL-104"
 LOCALIZED PROJECT COORDINATES
 N = 382339.8080
 E = 1841538.5330

NCDOT BASELINE STATION "BL-105"
 LOCALIZED PROJECT COORDINATES
 N = 382282.0640
 E = 1842341.6720

NCDOT BASELINE STATION "BL-102"
 LOCALIZED PROJECT COORDINATES
 N = 382459.1840
 E = 1839977.5840

NCDOT BASELINE STATION "BY1-107"
 LOCALIZED PROJECT COORDINATES
 N = 382210.4880
 E = 1839907.3970

LOCALIZED PROJECT COORDINATES
-L- STA. 24+00.00 END TIP PROJECT B-4817
N = 382390.9997
E = 1840802.0397

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BARTELLS"
 WITH NAD 83/86 STATE PLANE GRID COORDINATES OF
 NORTHING: 382428.805(ft) EASTING: 1839836.454(ft)
 ELEVATION: 208.47(ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99989764
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BARTELLS" TO -L- STATION 14+25.00 IS
 N 02°22'22.2" W 64.228'
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 29

NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCTION/HIGHWAY/LOCATION/PROJECT](http://www.ncdot.org/doh/preconstruction/highway/location/project)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 B4817_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 EXISTING HARN MONUMENTATION

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
101	BL-101	382656.5260	1839454.8120	222.17	10+18.07	12.69 LT
102	BL-102	382459.1840	1839977.5840	201.54	15+72.65	1.99 RT
103	BL-103	382424.9580	1840658.1260	194.65	22+53.97	23.24 LT
104	BL-104	382339.8080	1841538.5330	195.06	31+38.26	3.33 LT
105	BL-105	382282.0640	1842341.6720	195.99	39+43.47	5.86 LT

BY1 POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
106	BY1-106	382706.5700	1839945.2900	209.32	10+22.21	14.31 RT
107	BY1-107	382210.4880	1839907.3970	208.41	OUTSIDE PROJECT LIMITS	OUTSIDE PROJECT LIMITS

BY2 POINT	DESC.	NORTH	EAST	ELEVATION	Y2 STATION	OFFSET
108	BY2-108	382614.4960	1841694.3230	198.45	OUTSIDE PROJECT LIMITS	OUTSIDE PROJECT LIMITS
104	BL-104	382339.8080	1841538.5330	195.06	OUTSIDE PROJECT LIMITS	OUTSIDE PROJECT LIMITS

BM1 ELEVATION = 228.90
 N 382654 E 1839367
 L STATION 10+00.00
 S 40°15'25.50" W DIST 112.59
 RR-SPIKE IN BASE OF 16" PINE TREE RT OF US 74

BM2 ELEVATION = 197.19
 N 382405 E 1840326
 L STATION 19+34.00 20 RIGHT
 "Y" MARK IN NE W/ ON EAST BOUND BRIDGE ON US 74

BM3 ELEVATION = 200.77
 N 382388 E 1842359
 L STATION 39+54.00 12 LEFT
 RR-SPIKE IN BASE OF 22" PINE TREE LT OF US 74

NOTE: DRAWING NOT TO SCALE

6/2/09
 Q:\SEP-2012\bill\18-04817_18-10.dgn
 1839977.5840
 1842341.6720

SURVEY CONTROL SHEET B-4817

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	382650.0351	1839439.9689
PC	10+22.70	382639.4837	1839460.8225
PT	17+51.79	382436.8667	1840156.5953
POT	39+69.78	382275.0803	1842367.5295

L1

TYPE	STATION	NORTH	EAST
PC	14+25.00	382518.1091	1839840.4607
PT	17+17.79	382470.9150	1840129.8427
POT	23+94.86	382420.9178	1840804.2550

Y1

TYPE	STATION	NORTH	EAST
POT	10+00.00	382727.8990	1839960.8859
POT	12+61.15	382467.2064	1839945.4932

Y2

TYPE	STATION	NORTH	EAST
POT	10+00.00	382466.1086	1839951.1223
POT	12+65.23	382207.9512	1839890.2988

Y3

TYPE	STATION	NORTH	EAST
POT	10+00.00	382621.8657	1841679.7398
POT	13+10.53	382334.7728	1841561.3824

ROW MARKER CONCRETE OR GRANITE-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	14+25.00	-85.00	382575.1371	1839855.5871
L	17+51.79	-95.00	382533.6874	1840162.6185
L	17+80.00	-95.00	382531.5239	1840190.7476
L	17+80.00	-85.00	382521.5512	1840190.0092
L	14+25.00	-95.00	382584.8029	1839856.1509
L	14+93.90	-95.00	382569.3253	1839921.4706
L	16+00.00	-185.00	382639.2106	1840034.3686
L	16+00.00	-95.00	382550.3603	1840020.0291
L	16+18.00	99.63	382355.2845	1840007.6090

ROW MARKER CONCRETE OR GRANITE-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+40.00	-30.00	382686.2003	1839908.4760

ROW MARKER CONCRETE OR GRANITE-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	12+15.00	-30.00	382299.9586	1839931.0174
Y2	11+90.00	-80.00	382262.8260	1839965.4181

PERMANENT EASEMENT-E REBAR

ALIGN	STATION	OFFSET	NORTH	EAST
L	19+60.00	-110.00	382533.1909	1840371.3639
L	20+00.00	-110.00	382530.2372	1840411.2547
L	20+00.00	-85.00	382505.3854	1840409.4085
L	19+60.00	-85.00	382508.2592	1840369.5178
L	17+30.00	-146.00	382586.8657	1840146.4591
L	17+51.79	-146.00	382584.4671	1840166.3765
L	16+35.00	-95.00	382545.4081	1840052.7702
L	16+51.44	-110.00	382556.9818	1840079.4399
L	17+51.79	-105.00	382543.5790	1840163.3489
L	19+60.00	-105.00	382528.2835	1840370.9946
L	20+00.00	-105.00	382525.2498	1840410.8854
L	22+40.00	-105.00	382507.5271	1840050.2301
L	22+40.00	-85.00	382497.5917	1840049.7532
L	16+00.00	-110.00	382565.1676	1840022.4190

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BARTELLS"
 WITH NAD 83/86 STATE PLANE GRID COORDINATES OF
 NORTHING: 382428.805(ft) EASTING: 1839836.454(ft)
 ELEVATION: 208.47(ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99989764
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BARTELLS" TO -L- STATION 14+25.00 IS
 N 02°22'22.2" W 64.228'
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 29

NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.NCDOT.ORG/DOHHPRECONSTRUCT/HIGHWAYLOCATION/PROJECT/](http://www.ncdot.org/DOHHPRECONSTRUCT/HIGHWAYLOCATION/PROJECT/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 B4817_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.
2. 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 EXISTING HARN MONUMENTATION

NOTE: DRAWING NOT TO SCALE

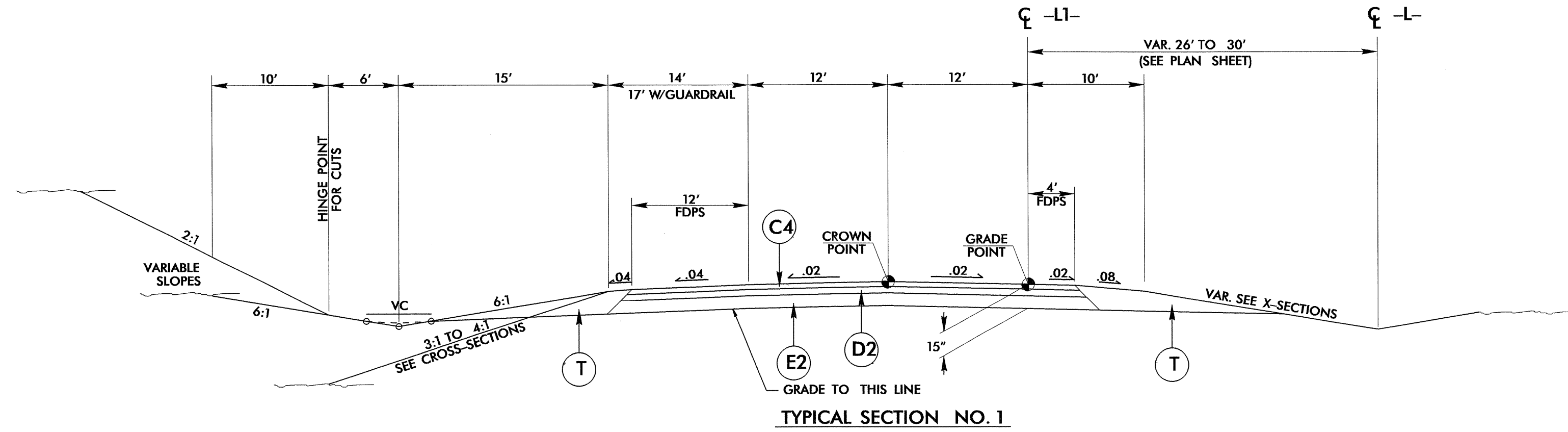
6/2/99

07 SEP 2016 11:48:17 -ls-ld.dgn

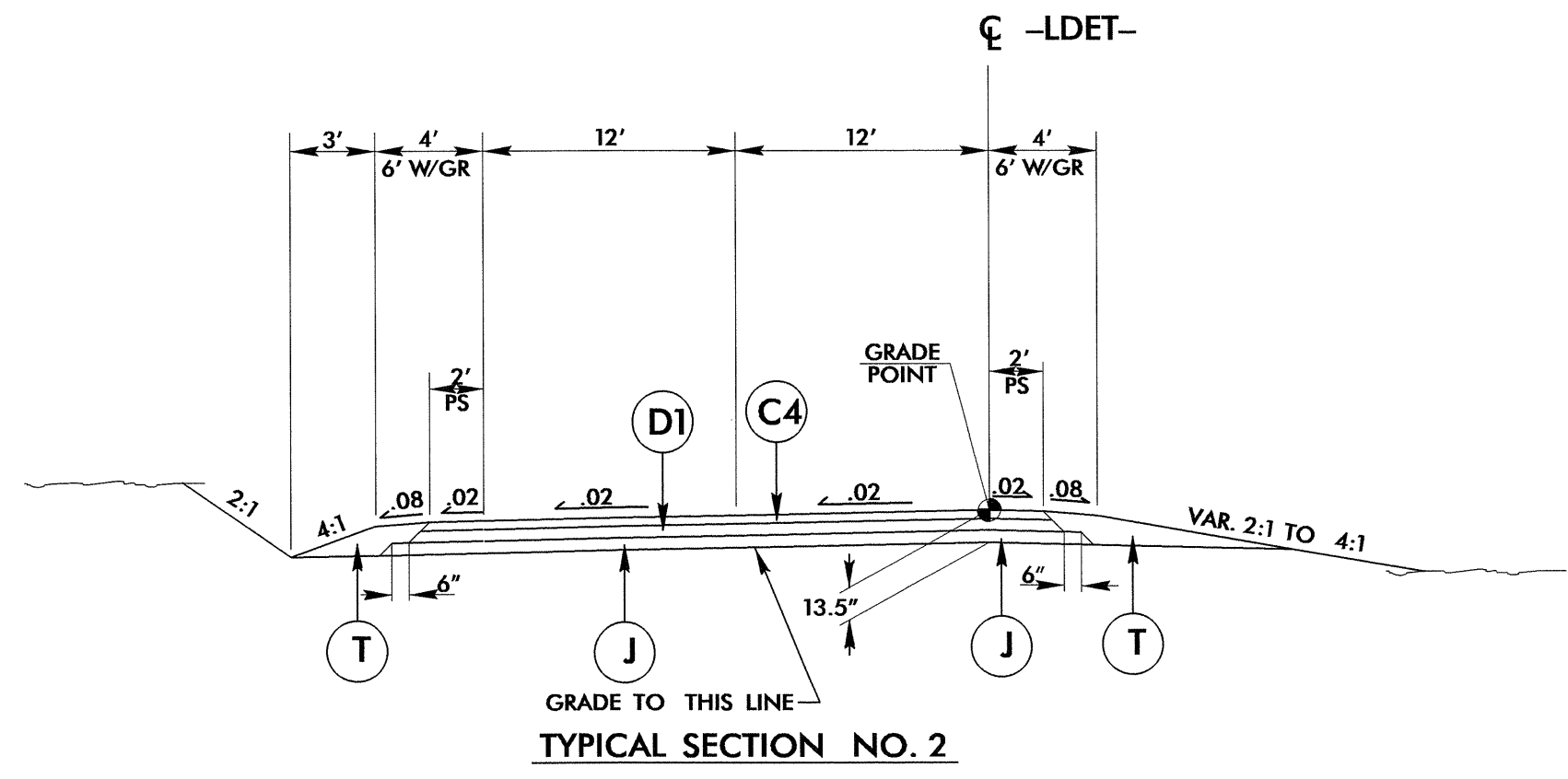
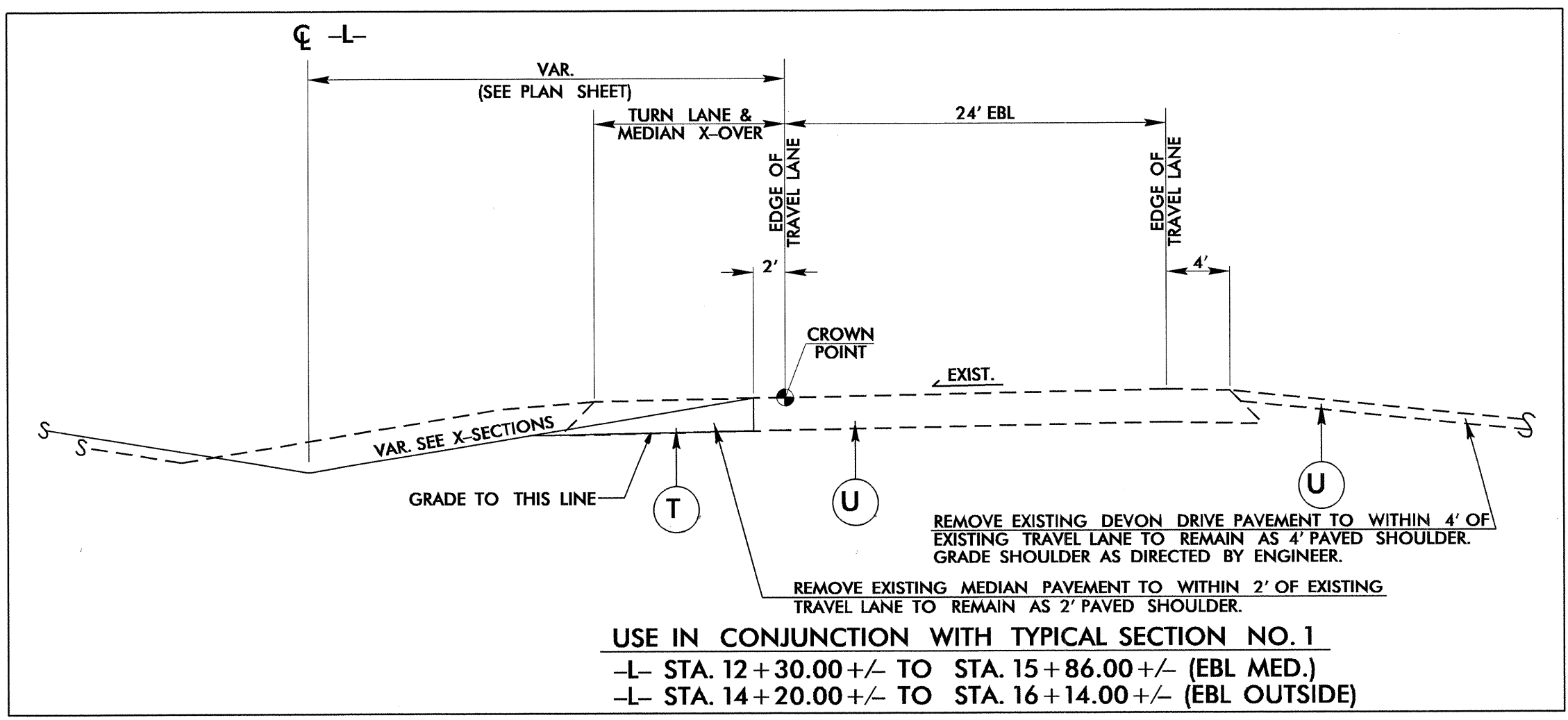
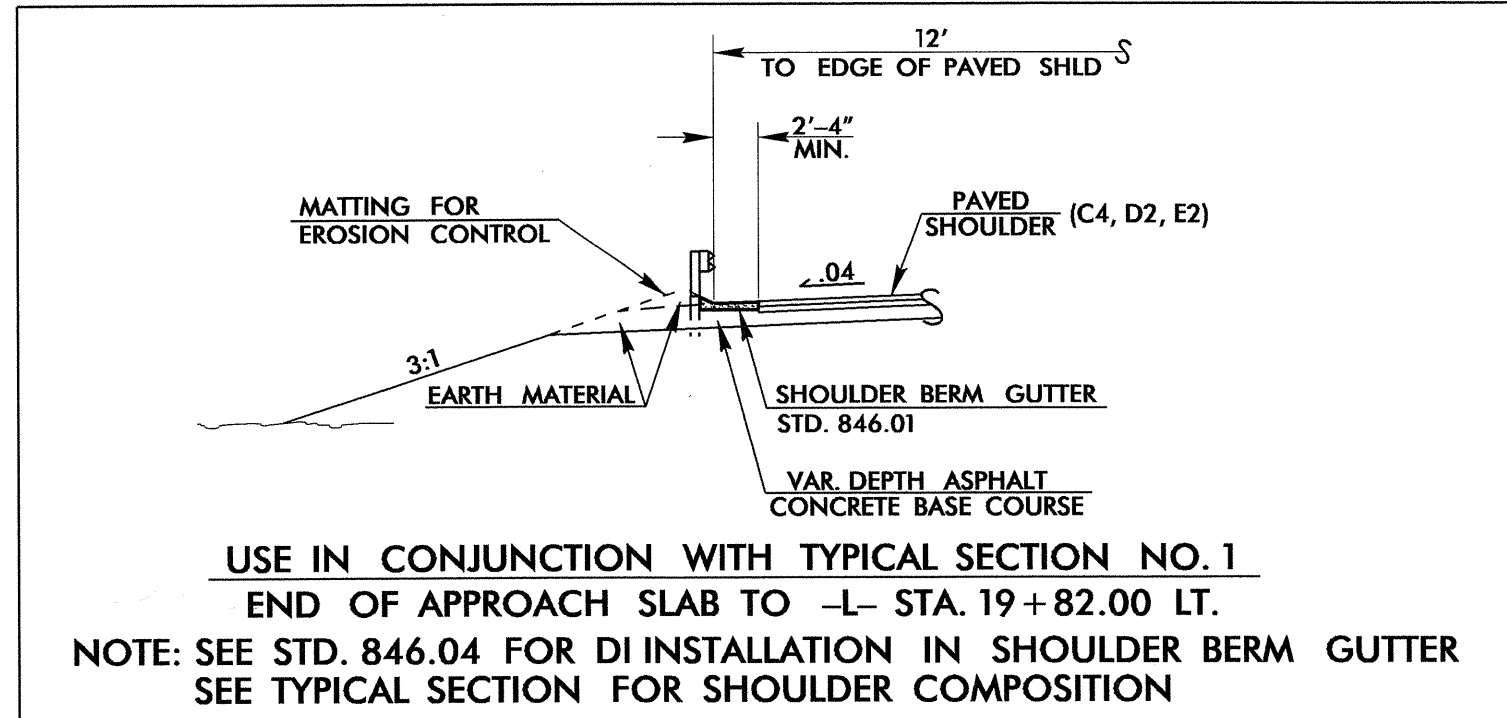
6/2/99

PROJECT REFERENCE NO. B-4817	SHEET NO. 2
ROADWAY DESIGN ENGINEER DANIEL W. GARDNER SEAL 33871 DATE 12/24/2012	PAVEMENT DESIGN ENGINEER CLARK S. MORRISON SEAL 22896 DATE 9/25/12

PAVEMENT SCHEDULE			
C1	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.	E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
C2	PROP. APPROX. 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF THE TWO LAYERS.	E2	PROP. APPROX. 9" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	J	PROP. 8" AGGREGATE BASE COURSE
C4	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	T	EARTH MATERIAL
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	U	EXISTING PAVEMENT
D2	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.	V	VARIABLE DEPTH MILLING, AS DIRECTED BY THE ENGINEER.



USE TYPICAL SECTION NO. 1 AS FOLLOWS
 -L1- STA. 14+25.00 TO STA. 17+80.00 (BEGIN BRIDGE)
 -L1- STA. 19+15.00 (END BRIDGE) TO STA. 22+34.86

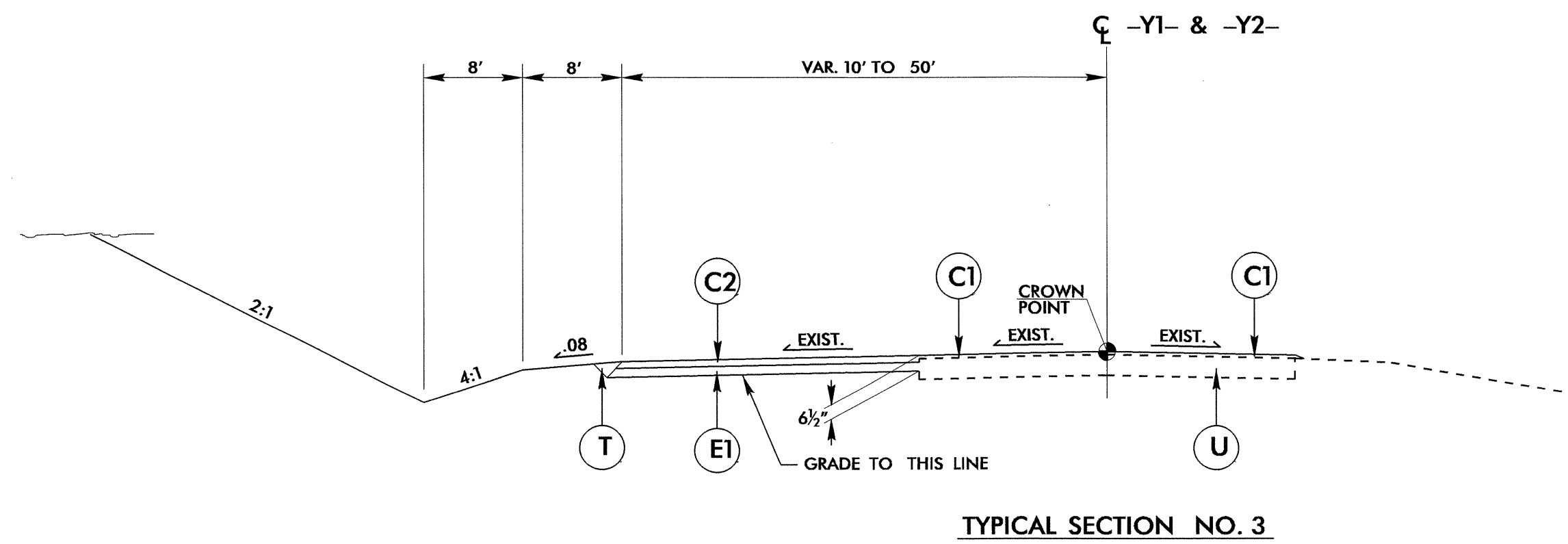


NOTE: TRANSITION FROM EXISTING TO TYPICAL SECTION NO. 2
 -LDET- STA. 10+00.00 TO STA. 11+32.73

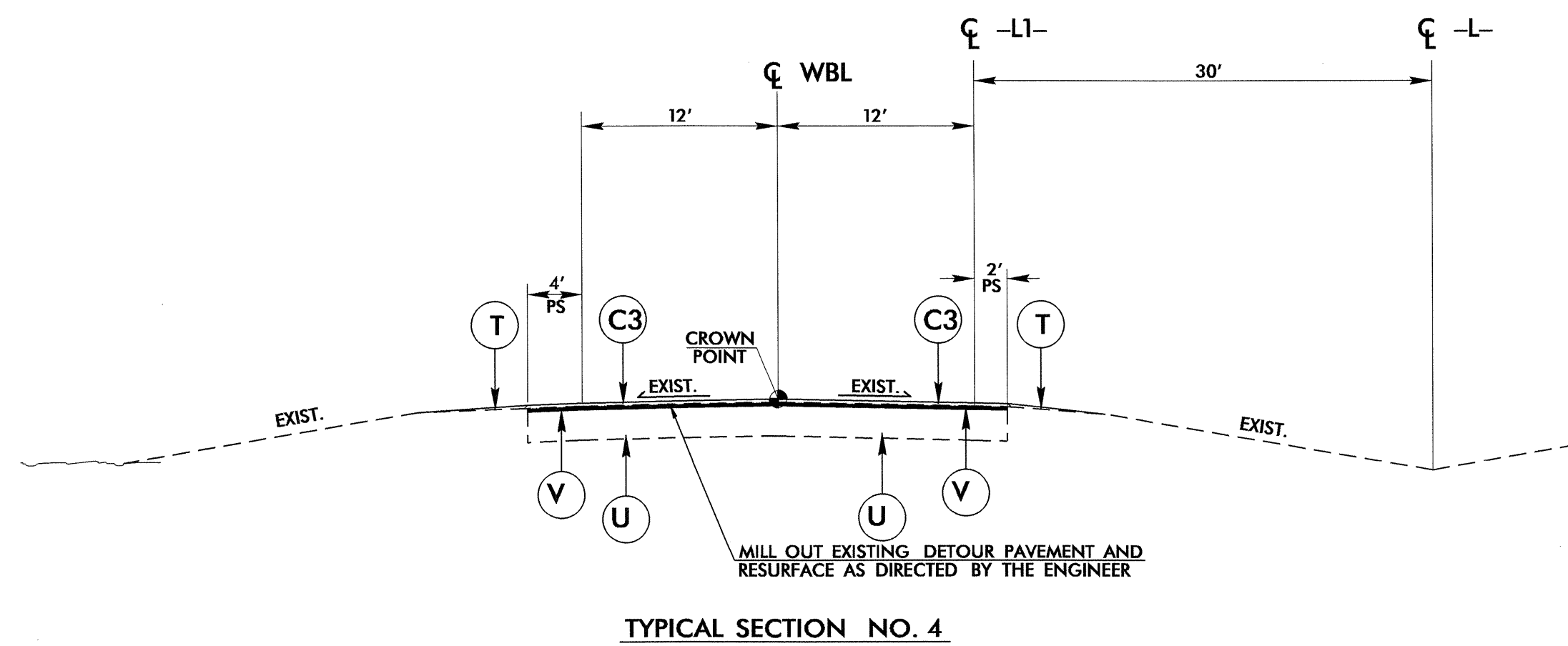
USE TYPICAL SECTION NO. 2 AS FOLLOWS
 -LDET- STA. 11+32.73 TO STA. 12+77.00 +/- (BEGIN BRIDGE)
 -LDET- STA. 14+57.00 +/- (END BRIDGE) TO STA. 16+54.43

NOTE: TRANSITION FROM TYPICAL SECTION NO. 2 TO EXISTING
 -LDET- STA. 16+54.43 TO STA. 18+68.19

29-AUG-2012 10:05
 C:\p00000001\p00000001\B-4817-rdy_tup.dgn
 \$\$\$\$11/15/12/11:58:33



USE TYPICAL SECTION NO. 3 AS FOLLOWS
 -Y1- STA. 10+40.00 TO STA. 11+30.00
 -Y2- STA. 11+25.94 TO STA. 12+15.00



USE TYPICAL SECTION NO. 4 AS FOLLOWS
 -L1- STA. 22+34.86 TO STA. 23+49.73

PROJECT REFERENCE NO.		SHEET NO.	
B-4817		2-A	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 33871 DANIEL W. BARDEN		PAVEMENT DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 22886 CLARY S. MORRISON	
PAVEMENT SCHEDULE			
C1	1 1/4" TYPE SF9.5A		
C2	2 1/2" TYPE SF9.5A		
C3	1 1/2" TYPE S9.5C		
C4	3" TYPE S9.5C		
D1	2 1/2" TYPE I19.0C		
D2	3" TYPE I19.0C		
E1	4" TYPE B25.0B		
E2	9" TYPE B25.0C		
J	8" AGGREGATE BASE COURSE		
T	EARTH MATERIAL		
U	EXISTING PAVEMENT		
V	VARIABLE DEPTH MILLING		

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C203022**

ItemNumber	Sec #	Quantity	Unit	Description
000100000-N	800	Lump Sum		MOBILIZATION
000400000-N	801	Lump Sum		CONSTRUCTION SURVEYING
002900000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (18+47.50 -L-)
004300000-N	226	Lump Sum		GRADING
005000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING
005700000-E	226	200	CY	UNDERCUT EXCAVATION
013400000-E	240	169	CY	DRAINAGE DITCH EXCAVATION
019500000-E	265	200	CY	SELECT GRANULAR MATERIAL
019600000-E	270	200	SY	GEOTEXTILE FOR SOIL STABILIZATION
019900000-E	SP	400	SF	TEMPORARY SHORING
031800000-E	300	5	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES
032000000-E	300	15	SY	FOUNDATION CONDITIONING GEOTEXTILE
034300000-E	310	44	LF	15" SIDE DRAIN PIPE
034800000-E	310	2	EA	*** SIDE DRAIN PIPE ELBOWS (15")
099500000-E	340	200	LF	PIPE REMOVAL
112100000-E	520	760	TON	AGGREGATE BASE COURSE
133000000-E	607	300	SY	INCIDENTAL MILLING
148900000-E	610	110	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
149100000-E	610	1,670	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C
150300000-E	610	770	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
152300000-E	610	820	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
152500000-E	610	100	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
157500000-E	620	175	TON	ASPHALT BINDER FOR PLANT MIX
200000000-N	806	12	EA	RIGHT OF WAY MARKERS

SUMMARY OF QUANTITIES - B-4817

ItemNumber	Sec #	Quantity	Unit	Description
228600000-N	840	3	EA	MASONRY DRAINAGE STRUCTURES
236600000-N	840	1	EA	FRAME WITH TWO GRATES, STD 840.24
236700000-N	840	1	EA	FRAME WITH TWO GRATES, STD 840.29
255600000-E	846	50	LF	SHOULDER BERM GUTTER
303000000-E	862	700	LF	STEEL BM GUARDRAIL
304500000-E	862	100	LF	STEEL BM GUARDRAIL, SHOP CURVED
310500000-N	862	4	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS
315000000-N	862	20	EA	ADDITIONAL GUARDRAIL POSTS
327000000-N	SP	1	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
328500000-N	SP	2	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350
331700000-N	862	3	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77
336000000-E	863	720	LF	REMOVE EXISTING GUARDRAIL
338000000-E	862	250	LF	TEMPORARY STEEL BM GUARDRAIL
338700000-N	862	3	EA	TEMPORARY GUARDRAIL ANCHOR UNITS, TYPE ***** (B-77)
338910000-N	SP	3	EA	TEMPORARY GUARDRAIL ANCHOR UNITS, TYPE 350
362800000-E	876	156	TON	RIP RAP, CLASS 1
365600000-E	876	860	SY	GEOTEXTILE FOR DRAINAGE
365900000-N	SP	1	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
407200000-E	903	282	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
409600000-N	904	2	EA	SIGN ERECTION, TYPE D
410200000-N	904	14	EA	SIGN ERECTION, TYPE E
415500000-N	907	17	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
440000000-E	1110	432	SF	WORK ZONE SIGNS (STATIONARY)
440500000-E	1110	128	SF	WORK ZONE SIGNS (PORTABLE)

ItemNumber	Sec #	Quantity	Unit	Description
441000000-E	1110	236	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
441500000-N	1115	2	EA	FLASHING ARROW BOARD
442000000-N	1120	1	EA	PORTABLE CHANGEABLE MESSAGE SIGN
442200000-N	1120	20	DAY	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)
443000000-N	1130	180	EA	DRUMS
444500000-E	1145	176	LF	BARRICADES (TYPE III)
446500000-N	1160	1	EA	TEMPORARY CRASH CUSHIONS
447000000-N	1160	2	EA	RESET TEMPORARY CRASH CUSHION
448000000-N	1165	2	EA	TMA
448500000-E	1170	1,480	LF	PORTABLE CONCRETE BARRIER
450000000-E	1170	2,960	LF	RESET PORTABLE CONCRETE BARRIER
451000000-N	SP	50	HR	LAW ENFORCEMENT
465000000-N	1251	27	EA	TEMPORARY RAISED PAVEMENT MARKERS
468500000-E	1205	1,864	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
468600000-E	1205	233	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
477000000-E	1205	423	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)
481000000-E	1205	9,226	LF	PAINT PAVEMENT MARKING LINES (4")
490000000-N	1251	15	EA	PERMANENT RAISED PAVEMENT MARKERS
600000000-E	1605	2,250	LF	TEMPORARY SILT FENCE
600600000-E	1610	225	TON	STONE FOR EROSION CONTROL, CLASS A
600900000-E	1610	390	TON	STONE FOR EROSION CONTROL, CLASS B
601200000-E	1610	190	TON	SEDIMENT CONTROL STONE
601500000-E	1615	3	ACR	TEMPORARY MULCHING
601800000-E	1620	100	LB	SEED FOR TEMPORARY SEEDING

ItemNumber	Sec #	Quantity	Unit	Description
602100000-E	1620	0.5	TON	FERTILIZER FOR TEMPORARY SEEDING
602400000-E	1622	200	LF	TEMPORARY SLOPE DRAINS
602900000-E	SP	1,000	LF	SAFETY FENCE
603000000-E	1630	330	CY	SILT EXCAVATION
603600000-E	1631	7,400	SY	MATTING FOR EROSION CONTROL
603700000-E	SP	900	SY	COIR FIBER MAT
603800000-E	SP	770	SY	PERMANENT SOIL REINFORCEMENT MAT
604200000-E	1632	440	LF	1/4" HARDWARE CLOTH
604800000-E	SP	150	SY	FLOATING TURBIDITY CURTAIN
6071010000-E	SP	300	LF	WATTLE
6071020000-E	SP	160	LB	POLYACRYLAMIDE (PAM)
608400000-E	1660	2	ACR	SEEDING & MULCHING
608700000-E	1660	1.5	ACR	MOWING
609000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
609300000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
609600000-E	1662	75	LB	SEED FOR SUPPLEMENTAL SEEDING
610800000-E	1665	2	TON	FERTILIZER TOPDRESSING
611450000-N	1667	10	MHR	SPECIALIZED HAND MOWING
611700000-N	SP	25	EA	RESPONSE FOR EROSION CONTROL

SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
PHASE I (DETOUR, -Y1-, -Y2-)				
-LDET- STA. 10+00.00 TO STA. 12+77.00	61	249	188	
-LDET- STA. 14+57.00 TO STA. 18+68.19	62	467	405	
-Y1- STA. 10+40.00 TO STA. 11+30.00	35	110	75	
-Y2- STA. 11+25.94 TO STA. 12+15.00	181			181
PHASE I TOTALS	339	826	668	181
PHASE II (-L-)				
-L- STA. 14+25.00 TO STA. 17+76.05	1063	137		926
-L- STA. 19+21.89 TO STA. 22+40.00	249	903	654	
PHASE II TOTALS	1312	1040	654	926
PHASE III (DETOUR REMOVAL, FINISH -L-)				
-L- STA. 12+50.00 TO STA. 17+76.05	601	28		573
-L- STA. 19+21.89 TO STA. 22+25.34	444	8		436
PHASE III TOTAL	1045	36		1009
SUMMARY TOTALS	2696	1902	1322	2116
WASTE IN LIEU OF BORROW			-835	-835
LOSS DUE TO CLEARING & GRUBBING	-100		100	
ESTIMATED SHOULDER MATERIAL		624	624	
PROJECT TOTALS	2596	2526	1211	1281
5% TO REPLACE TOPSOIL IN BORROW PIT			61	
GRAND TOTALS	2596	2526	1272	1281
SAY	2700		1400	
DDE = 169 CY				
UNDERCUT CONTINGENCY = 200 CY				
GEOTEXTILE FOR SOIL STABILIZATION = 200 SY				
SELECT GRANULAR MATERIAL = 200 CY				

SUMMARY OF REMOVAL EXISTING ASPHALT PAVEMENT

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD ²
-L-	12+30.00	18+11.00	LT/RT	2634.03
-L-	14+20.00	16+14.00	RT	487.32
-L-	19+01.00	23+15.00	LT/RT	1817.82
TOTAL:				4,939.17
SAY:				5,000

SHOULDER BERM GUTTER SUMMARY

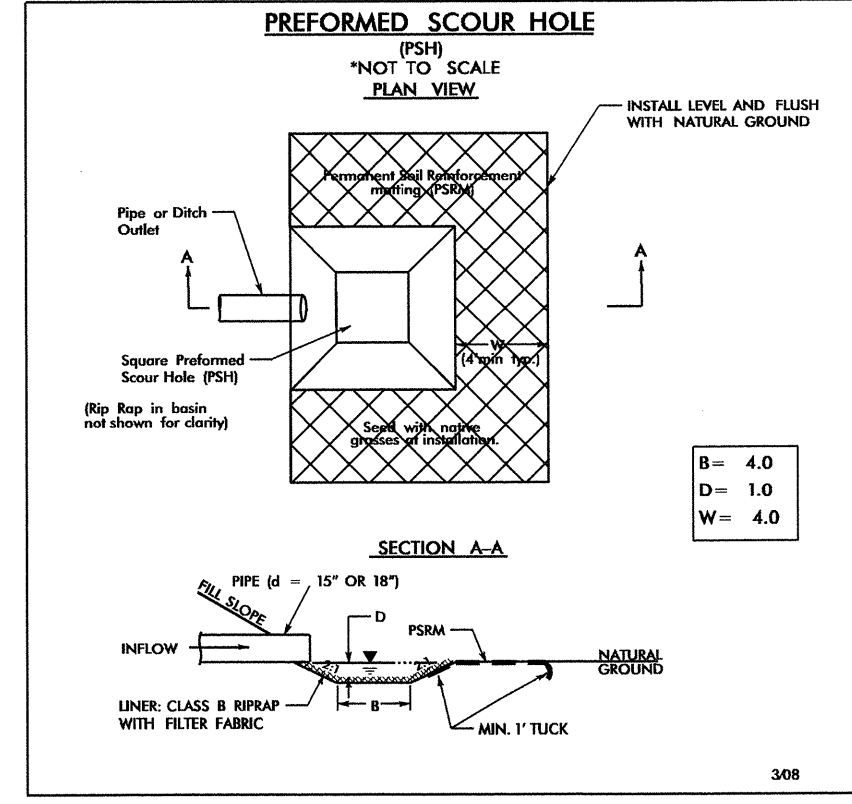
SURVEY LINE	STATION	STATION	LENGTH
-L-	19+34.74	19+82	47.26
TOTAL:			47.26
SAY:			50

Note: 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."

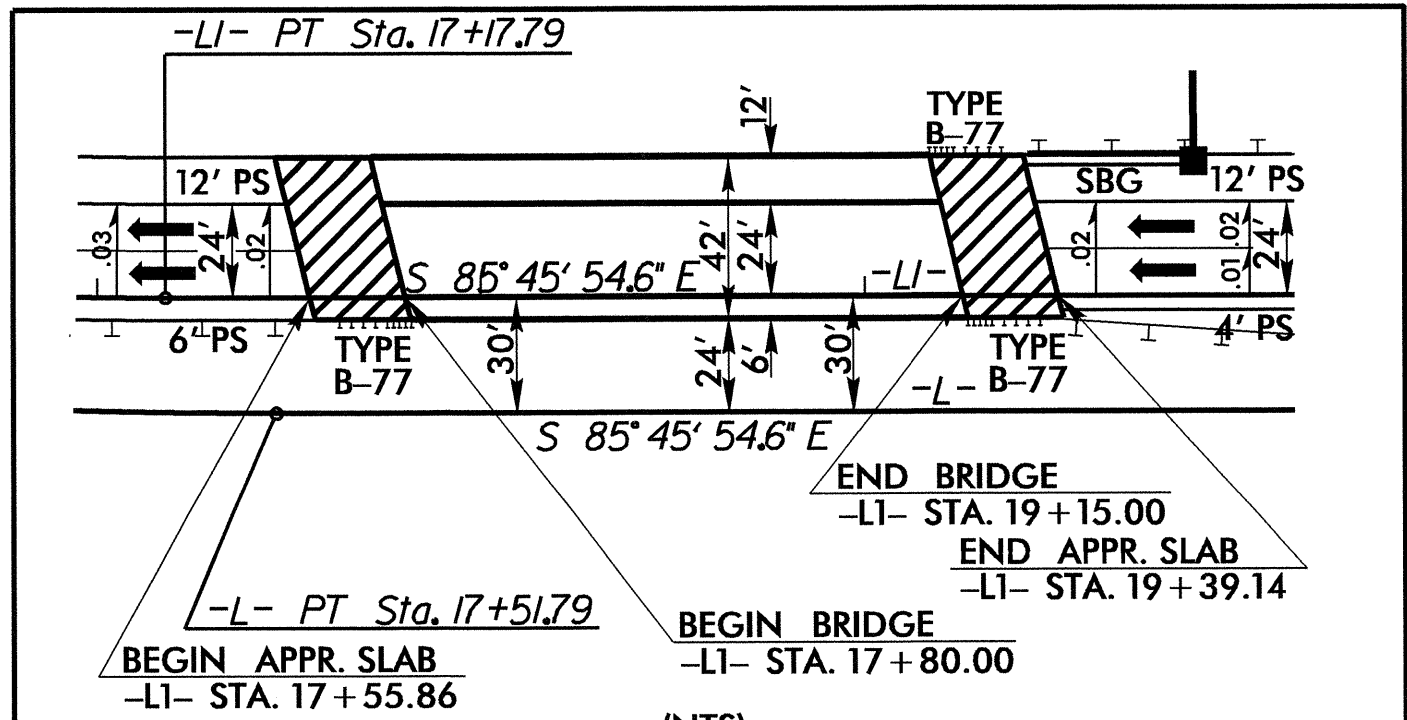
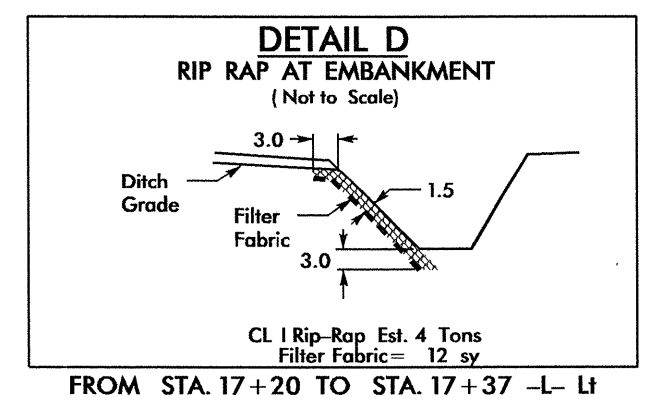
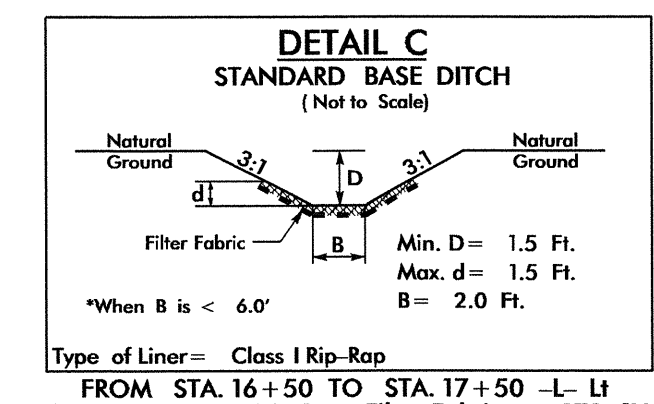
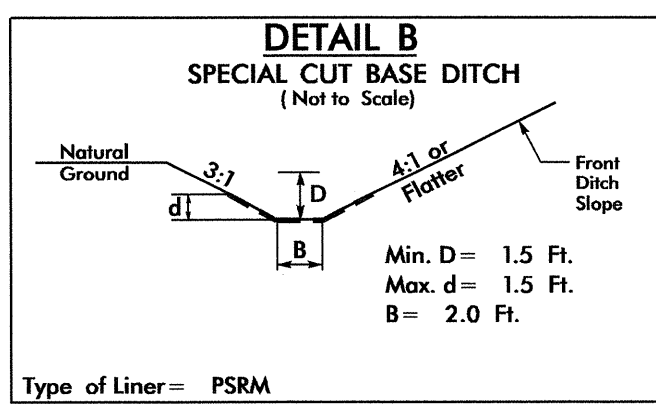
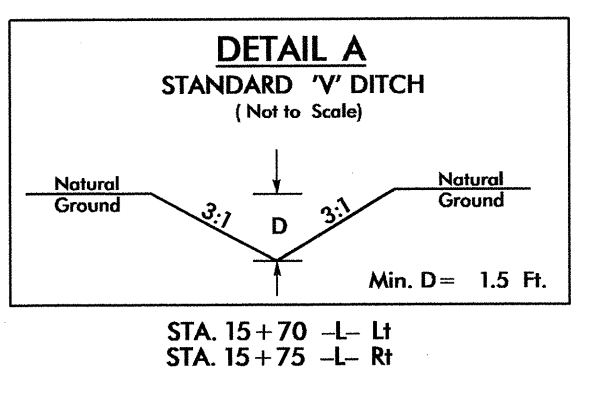
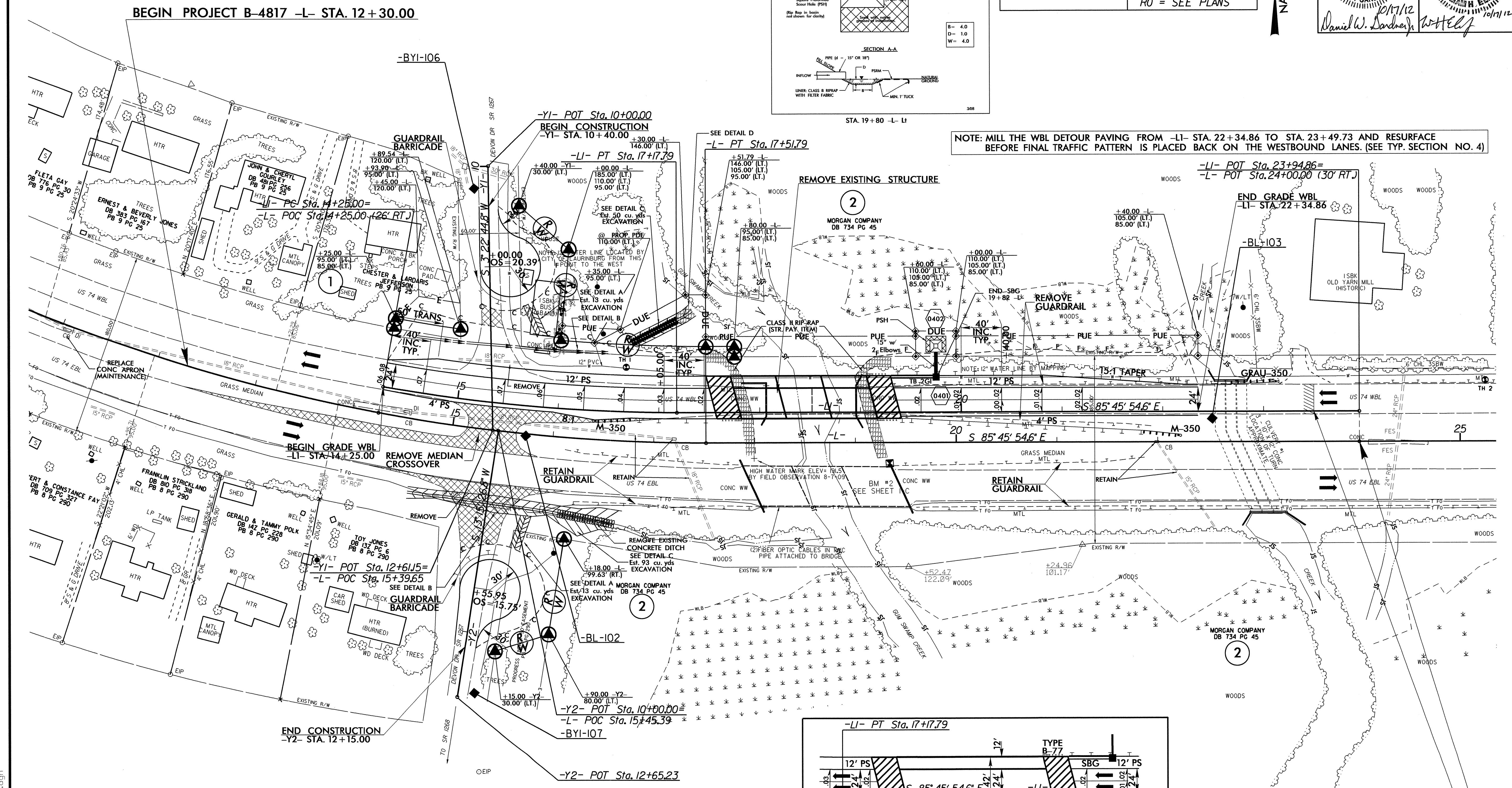
Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

PROJECT REFERENCE NO. B-4817		SHEET NO. 4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 33871 DANIEL W. SANDREY 10/17/12	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 18721 WILLIAM H. ELLIOTT 10/17/12	

-L-	-L1-
PI Sta 13+92.53	PI Sta 15+71.78
$\Delta = 23^{\circ} 41' 43.3" (LT)$	$\Delta = 10^{\circ} 06' 21.5" (LT)$
D = 3' 15" 00.0"	D = 3' 27" 05.6"
L = 729.09'	L = 292.79'
T = 369.83'	R = 146.78'
R = 1,762.95'	R = 1,660.00'
	SE = .07
	RO = SEE PLANS



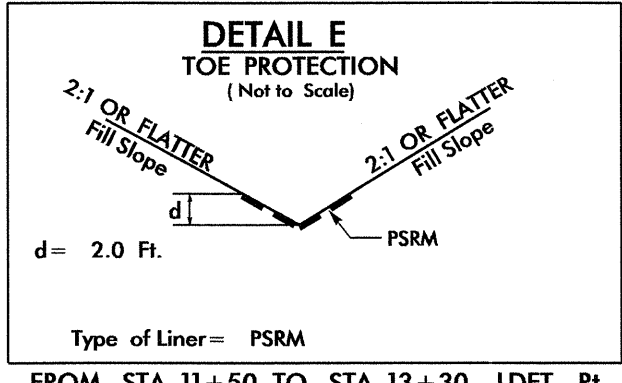
NOTE: MILL THE WBL DETOUR PAVING FROM -L1- STA. 22+34.86 TO STA. 23+49.73 AND RESURFACE BEFORE FINAL TRAFFIC PATTERN IS PLACED BACK ON THE WESTBOUND LANES. (SEE TYP. SECTION NO. 4)



END BRIDGE -L1- STA. 19+15.00
 END APPR. SLAB -L1- STA. 19+39.14
 END MILLING AND RESURFACING -L1- STA. 23+49.73
 END PROJECT B-4817 -L- STA. 24+00.00

NOTE: FUEL TANKS AND CONTAMINATED SOIL LOCATED AT -L- STA. 16+00.00 LT. ON PARCEL 2 (MORGAN COMPANY) WILL BE REMOVED BY OTHERS.

SEE SHEET 5 FOR -L- AND -L1- PROFILE
 SEE SHEET 6 FOR -Y1- AND -Y2- PROFILE
 SEE SHEET S-1 THRU S-34 FOR STRUCTURE PLANS



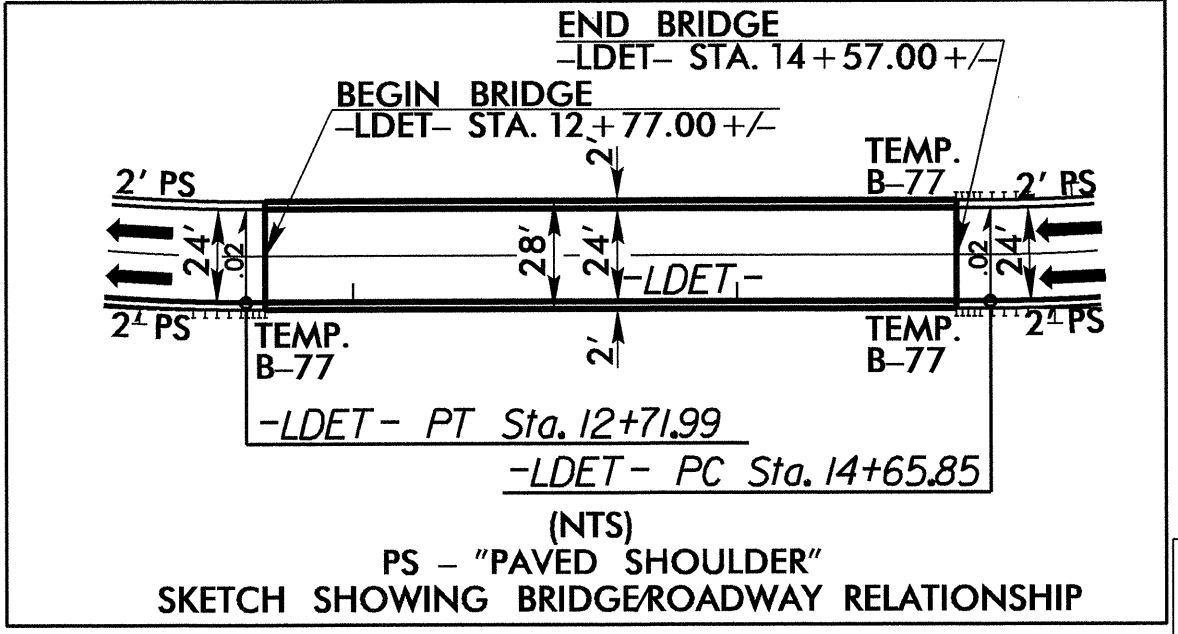
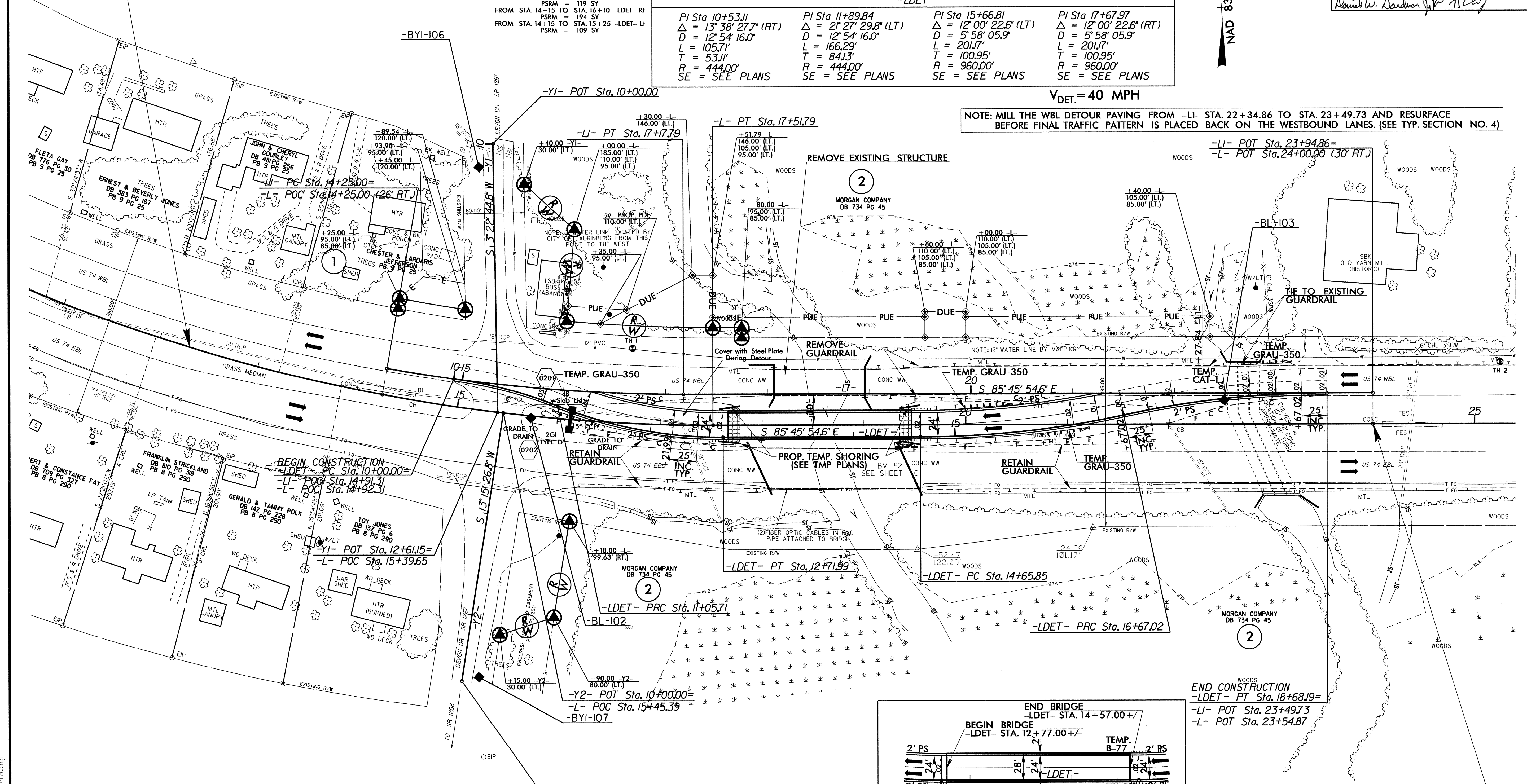
Type of Liner = PSRM
 FROM STA. 11+50 TO STA. 13+30 -LDET- RI
 PSRM = 179 SY
 FROM STA. 12+10 TO STA. 13+30 -LDET- LI
 PSRM = 119 SY
 FROM STA. 14+15 TO STA. 16+10 -LDET- RI
 PSRM = 194 SY
 FROM STA. 14+15 TO STA. 15+25 -LDET- LI
 PSRM = 109 SY

-L-	-LI-
PI Sta 13+92.53 Δ = 23° 41' 43.3" (LT) D = 3' 15" 00.0" L = 729.09' T = 369.83' R = 1,762.95'	PI Sta 15+71.78 Δ = 10° 06' 21.5" (LT) D = 3' 27" 05.6" L = 292.79' T = 146.78' R = 1,660.00' SE = .07 RO = SEE PLANS

-LDET-			
PI Sta 10+53.11 Δ = 13° 38' 27.7" (RT) D = 12' 54" 16.0" L = 105.71' T = 53.11' R = 444.00' SE = SEE PLANS	PI Sta 11+89.84 Δ = 21° 27' 29.8" (LT) D = 12' 54" 16.0" L = 166.29' T = 84.13' R = 444.00' SE = SEE PLANS	PI Sta 15+66.81 Δ = 12° 00' 22.6" (LT) D = 5' 58" 05.9" L = 201.7' T = 100.95' R = 960.00' SE = SEE PLANS	PI Sta 17+67.97 Δ = 12° 00' 22.6" (RT) D = 5' 58" 05.9" L = 201.7' T = 100.95' R = 960.00' SE = SEE PLANS

NAD 83/86

BEGIN PROJECT B-4817 -L- STA. 12+30.00



END PROJECT B-4817 -L- STA. 24+00.00

NOTE: FUEL TANKS AND CONTAMINATED SOIL LOCATED AT -L- STA. 16+00.00 LT. ON PARCEL 2 (MORGAN COMPANY) WILL BE REMOVED BY OTHERS.

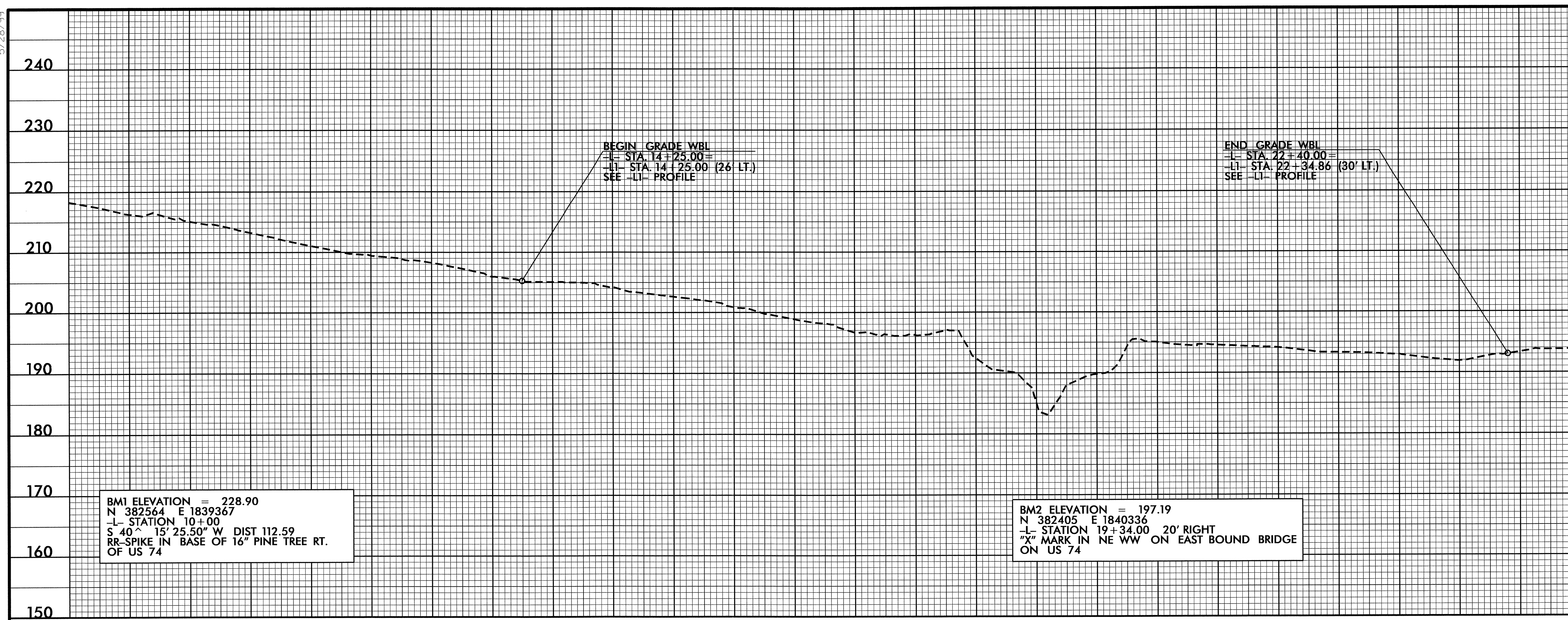
17-OCT-2012 10:30 P:\Roadway\B-4817-rdw-psl-04.dgn

5/28/99

ROADWAY DESIGN ENGINEER
 NORTH CAROLINA PROFESSIONAL SEAL 33871
 ENGINEER
 JAMES W. GARDNER

HYDRAULICS ENGINEER
 NORTH CAROLINA PROFESSIONAL SEAL 19721
 ENGINEER
 WILLIAM W. ELWELL

Samuel W. Sandberg 9/21/2012



BMI ELEVATION = 228.90
 N 382564 E 1839367
 L STATION 10+00
 S 40° 15' 25.50" W DIST 112.59
 RR-SPIKE IN BASE OF 16" PINE TREE RT.
 OF US 74

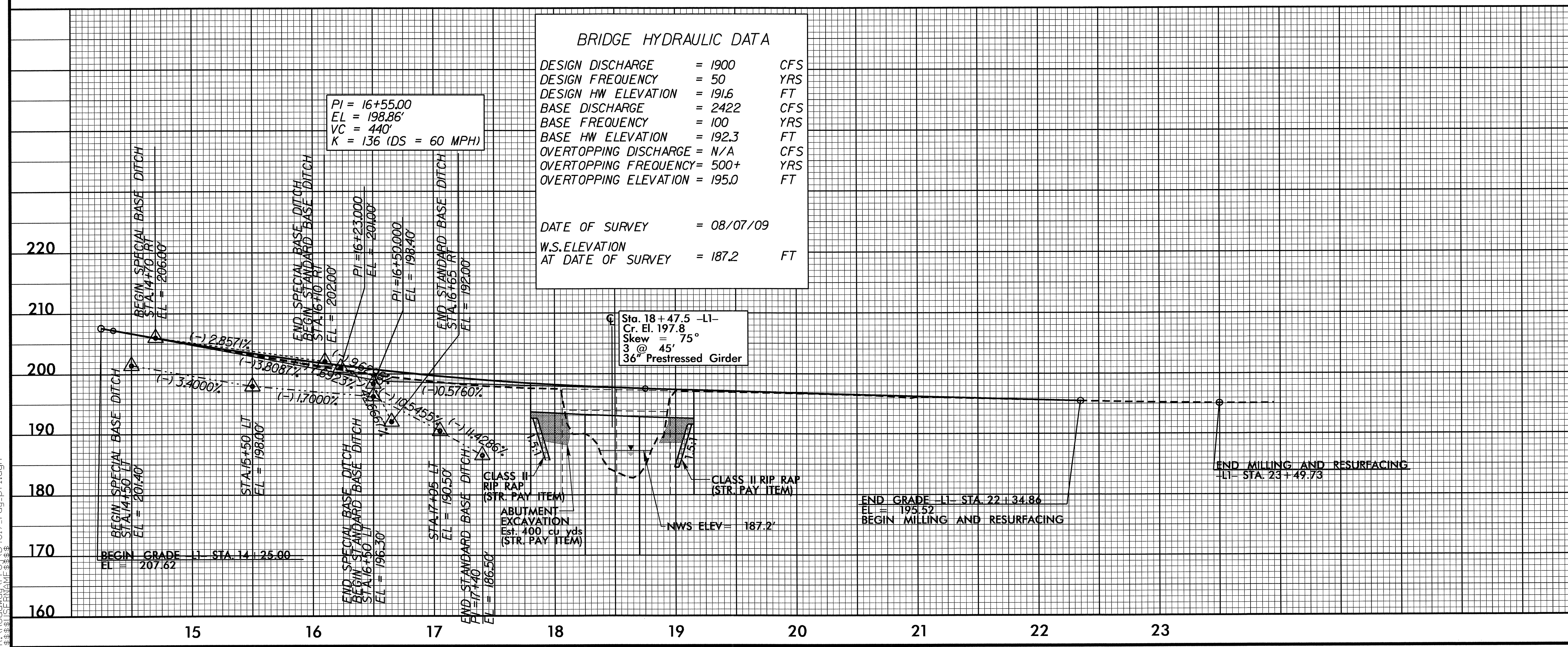
BM2 ELEVATION = 197.19
 N 382405 E 1840336
 L STATION 19+34.00 20' RIGHT
 "X" MARK IN NE WW ON EAST BOUND BRIDGE
 ON US 74

SEE SHEET 4 FOR PLAN VIEW

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1900	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 191.6	FT
BASE DISCHARGE	= 2422	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 192.3	FT
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 195.0	FT

DATE OF SURVEY = 08/07/09
 W.S. ELEVATION AT DATE OF SURVEY = 187.2 FT



PI = 16+55.00
 EL = 198.86'
 VC = 440'
 K = 136 (DS = 60 MPH)

Sta. 18+47.5 -L1-
 Cr. El. 197.8
 Skew = 75°
 3 @ 45'
 36" Prestressed Girder

CLASS II RIP RAP (STR. PAY ITEM)
 ABUTMENT EXCAVATION Est. 400 cu yds (STR. PAY ITEM)
 NWS ELEV = 187.2'

END GRADE -L1- STA. 22+34.86
 EL = 195.52
 BEGIN MILLING AND RESURFACING

END MILLING AND RESURFACING
 -L1- STA. 23+49.73

SEE SHEET 4 FOR PLAN VIEW

04-SEP-2012 10:38 P:\Projects\B-4817_rdy-pl.dgn

5/28/99

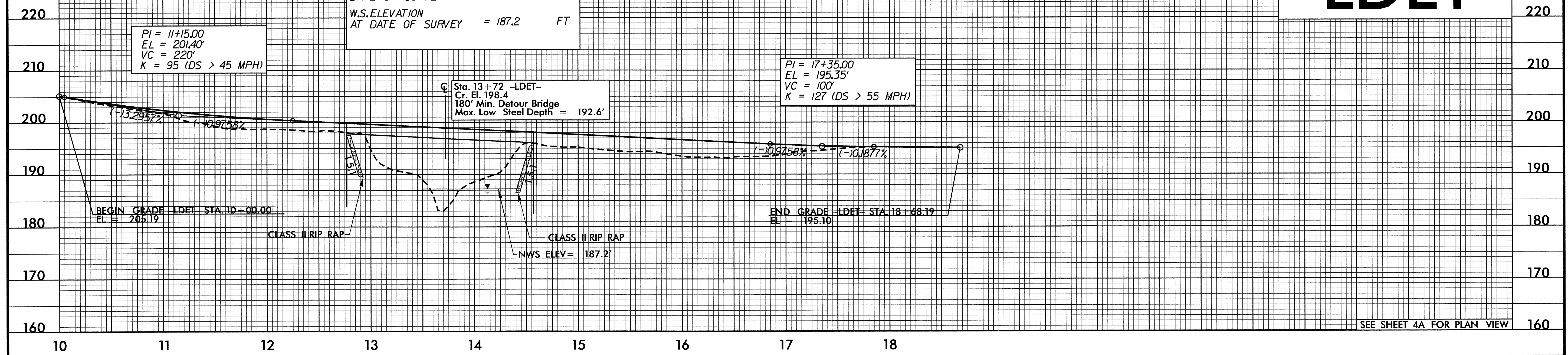
PROJECT REFERENCE NO. B-4817	SHEET NO. 6
ROADWAY DESIGN ENGINEER DANIEL W. GARDNER SEAL 33871	HYDRAULICS ENGINEER WILLIAM H. ELM SEAL 19721

Daniel W. Gardner
9/21/2012

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1240	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 190.7	FT
BASE DISCHARGE	= 1900	CFS
BASE FREQUENCY	= 50	YRS
BASE HW ELEVATION	= 191.6	FT
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING ELEVATION	= N/A	FT

DATE OF SURVEY	= 08/07/09	
W.S. ELEVATION AT DATE OF SURVEY	= 187.2	FT

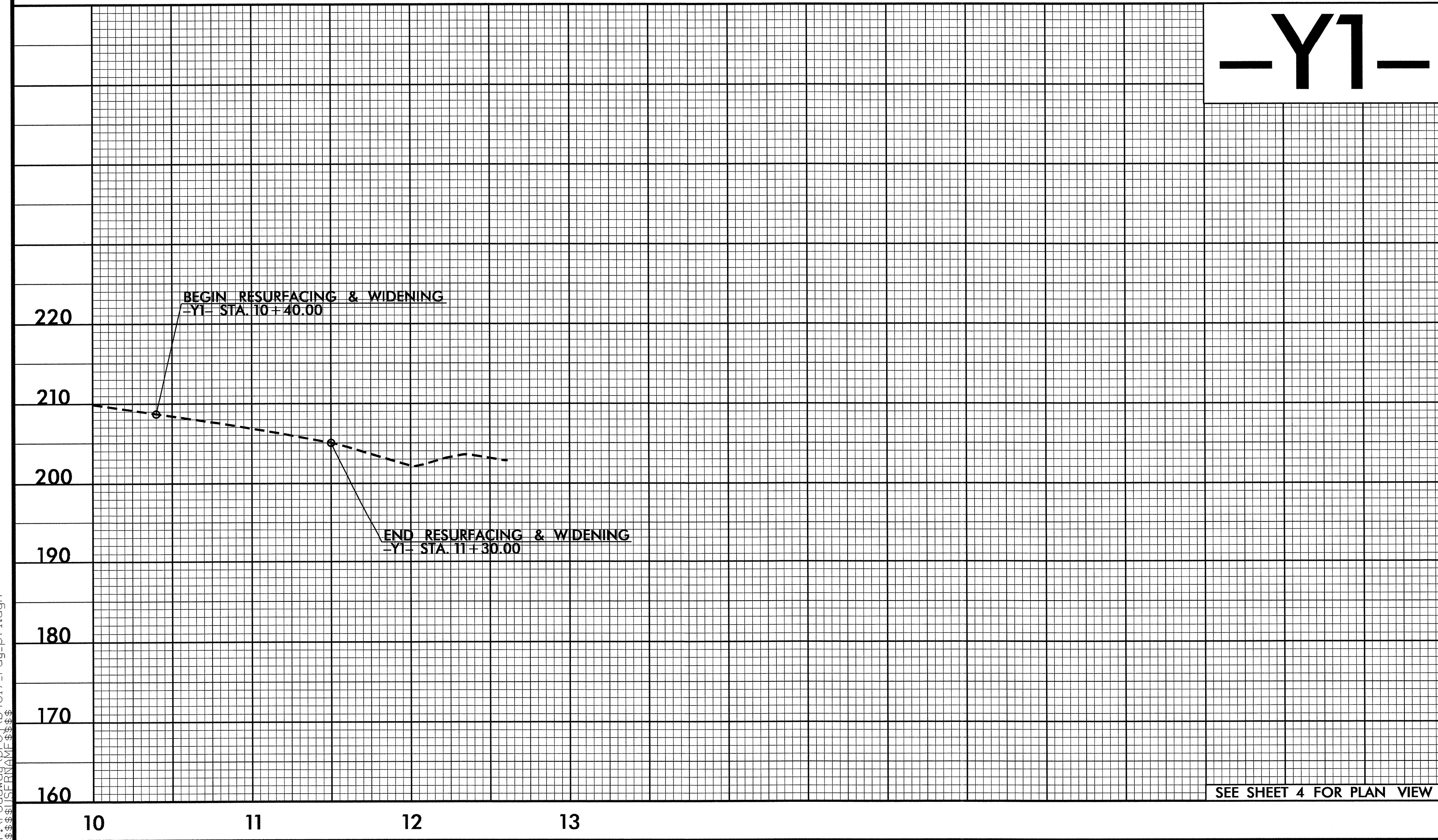


-LDET-

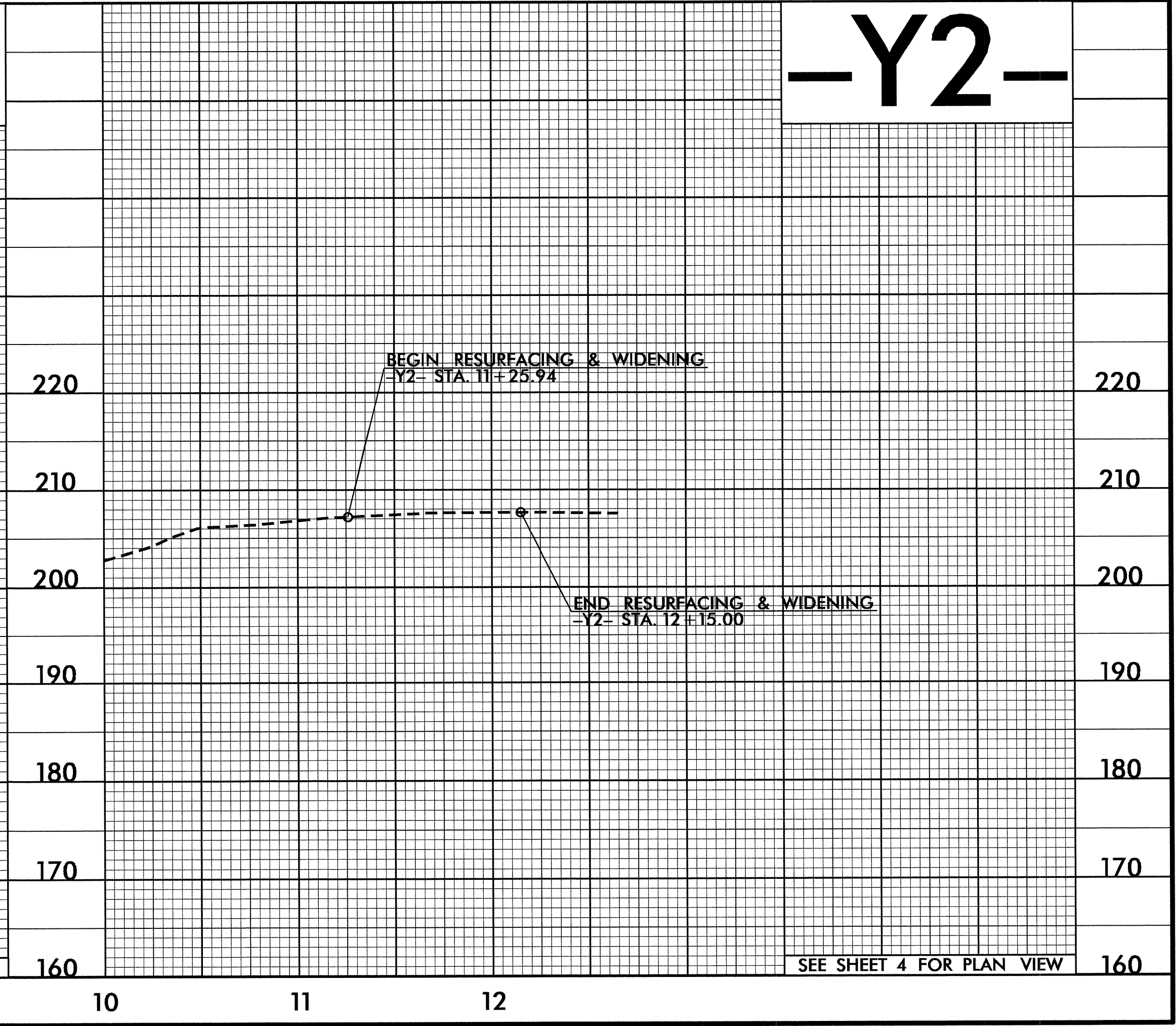
SEE SHEET 4A FOR PLAN VIEW

-Y1-

-Y2-



SEE SHEET 4 FOR PLAN VIEW



SEE SHEET 4 FOR PLAN VIEW

04-SEP-2012 10:38
F:\PROJECTS\B-4817-rdy+pfl.dgn