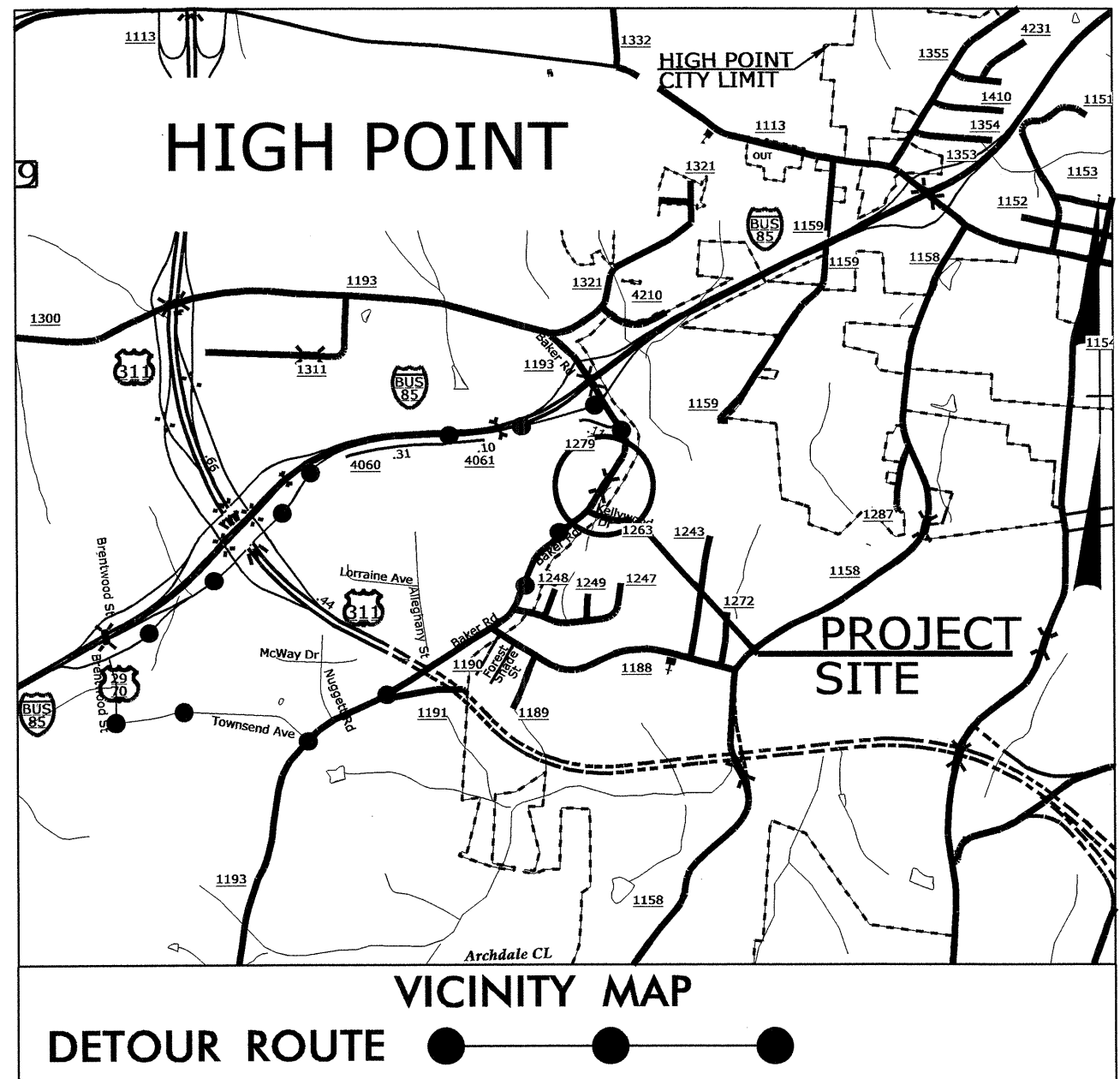


05/08/99

See Sheet 1-A For Index of Sheets



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GUILFORD COUNTY

**LOCATION: BRIDGE #56 OVER RICHLAND CREEK
ON SR 1193 (BAKER ROAD)**

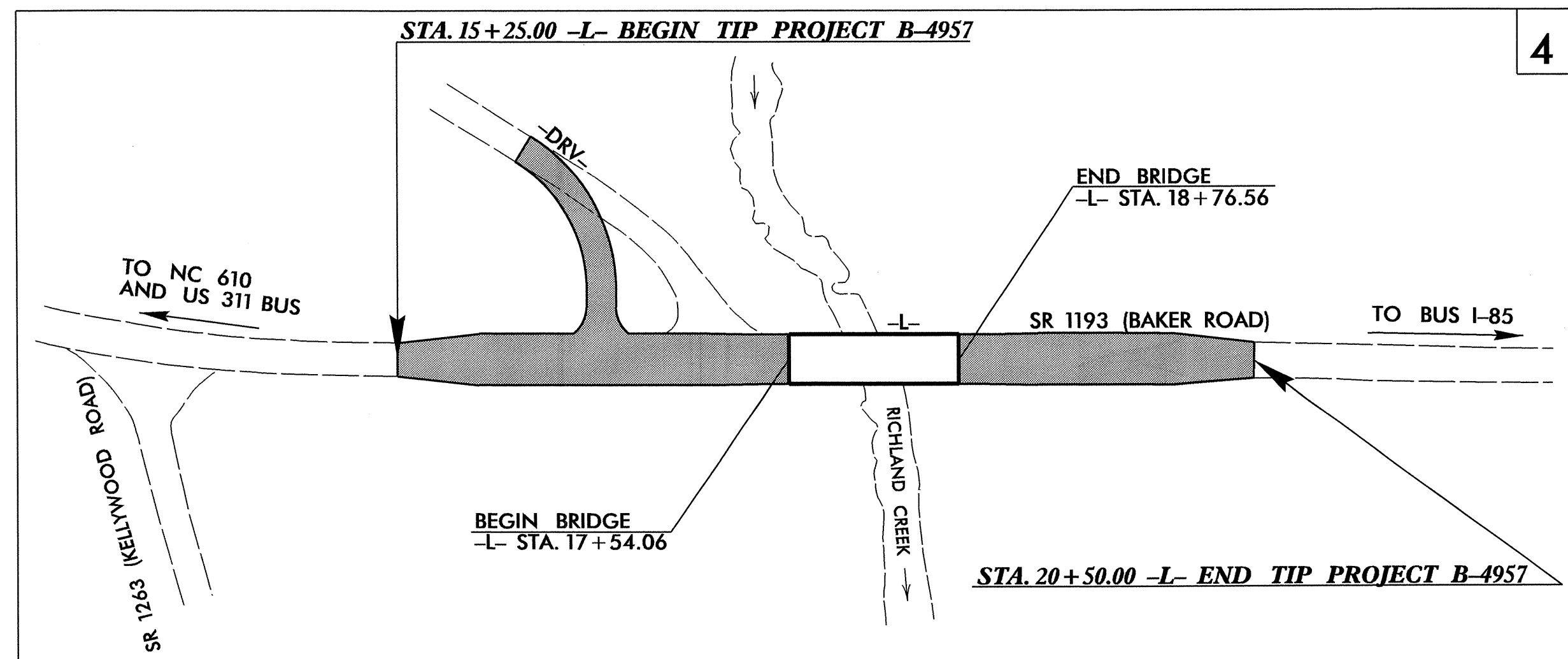
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4957	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
40149.1.1	BRSTP-1193(8)	P.E.	
40149.2.1	BRSTP-1193(8)	RW & UTIL	
40149.3.1	BRSTP-1193(8)	CONSTRUCTION	

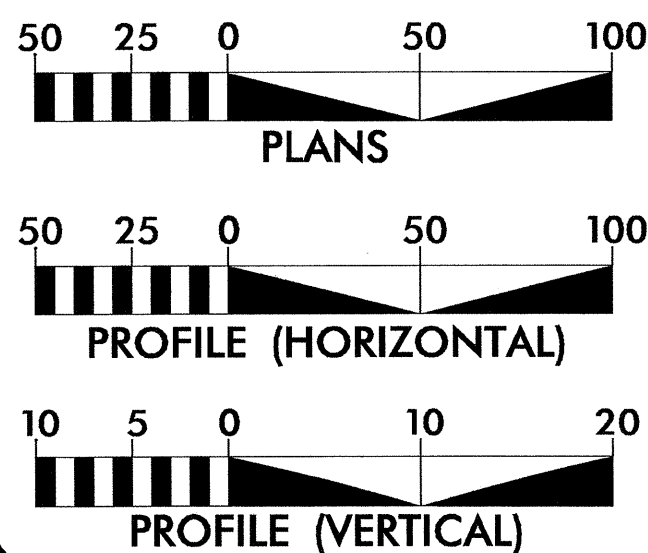


TIP PROJECT: B-4957

CONTRACT: C203159



GRAPHIC SCALES



DESIGN DATA

ADT 2011 = 4700
ADT 2035 = 5900
DHV = 10 %
D = 55 %
T = 11 % *
V = 40 MPH
*TTST 5% DUAL 6%
FUNC CLASS = MINOR ARTERIAL
SUBREGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4957 = 0.076 MILE
LENGTH OF STRUCTURE TIP PROJECT B-4957 = 0.023 MILE
TOTAL LENGTH OF TIP PROJECT B-4957 = 0.099 MILE

Prepared In the Office of:

DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

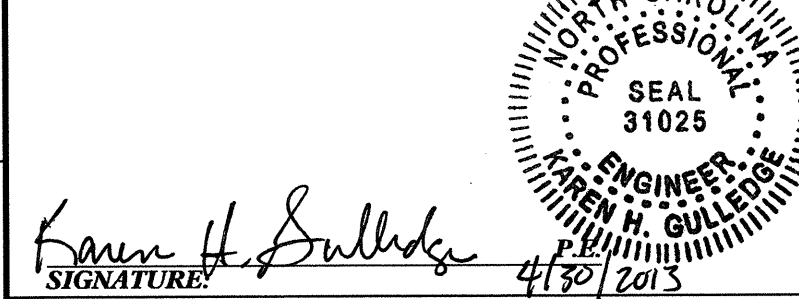
RIGHT OF WAY DATE:
MAY 1, 2012

LETTING DATE:
JULY 16, 2013

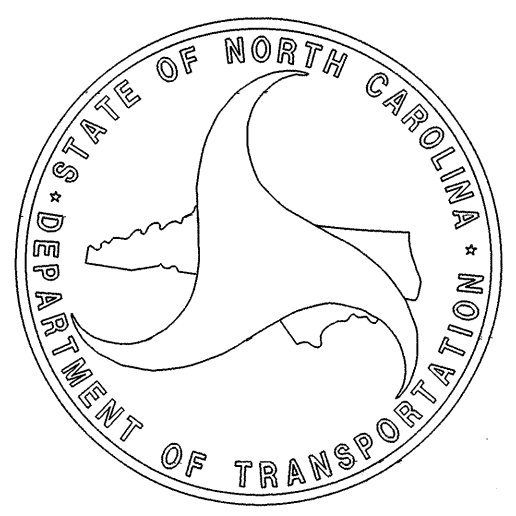
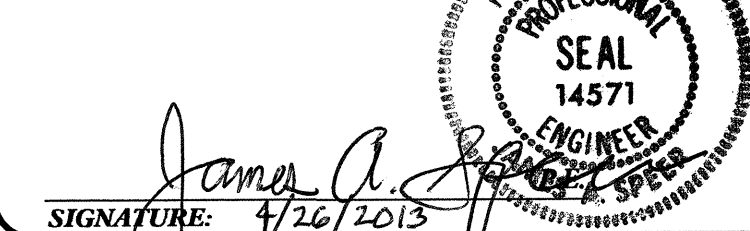
JAMES A. SPEER, PE
PROJECT ENGINEER

ALLISON K. WHITE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER



ROADWAY DESIGN
ENGINEER



26- APR-2013 09:38
R:\Roadway\PROJECT\B4957_Rdy_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS



B-4957

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEET
2	PAVEMENT SCHEDULE, TYPICAL SECTION, AND WEDGING DETAILS
3	SUMMARY OF QUANTITIES
3-A	SUMMARY OF DRAINAGE QUANTITIES, SUMMARY OF GUARDRAIL, SUMMARY OF PAYMENT REMOVAL, EARTHWORK SUMMARY, AND SUMMARY OF SHOULDER BERM GUTTER
4	PLAN SHEET
5	PROFILE SHEET
TMP-1 THRU TMP-2	TRANSPORTATION MANAGEMENT PLANS
PMP-1	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
RF-1	REFORESTATION PLAN
SIGN-1 THRU SIGN-3	SIGNING PLANS
SD-1	SPECIAL SIGN DESIGN
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS
X-1A	CROSS SECTION VOLUME SHEET
X-1 THRU X-7	PROPOSED CROSS SECTIONS
S-1 THRU S-27	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 II.

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.

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

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.

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 (A) POWER TRANSMISSION-DUKE ENERGY (B) POWER TRANSMISSION-CITY OF HIGHPOINT (C) POWER DISTRIBUTION - CITY OF HIGHPOINT (D) WATER AND SANITARY SEWER - CITY OF HIGHPOINT (E) TELEPHONE - NORTH STATE COMMUNICATIONS (F) CABLE TV - TIME WARNER CABLE
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	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superlevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 4 - MAJOR STRUCTURES	
422.10	Reinforced Bridge Approach Fills
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
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
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
840.45	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
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

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	CSX TRANSPORTATION 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	○ R/W
Proposed Right of Way Line with Iron Pin and Cap Marker	○ R/W ▲
Proposed Right of Way Line with Concrete or Granite Marker	○ R/W ▲
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	□
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	○ W
Water Meter	○
Water Valve	○
Water Hydrant	○
Recorded U/G Water Line	----- W
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	----- G
Designated U/G Gas Line (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

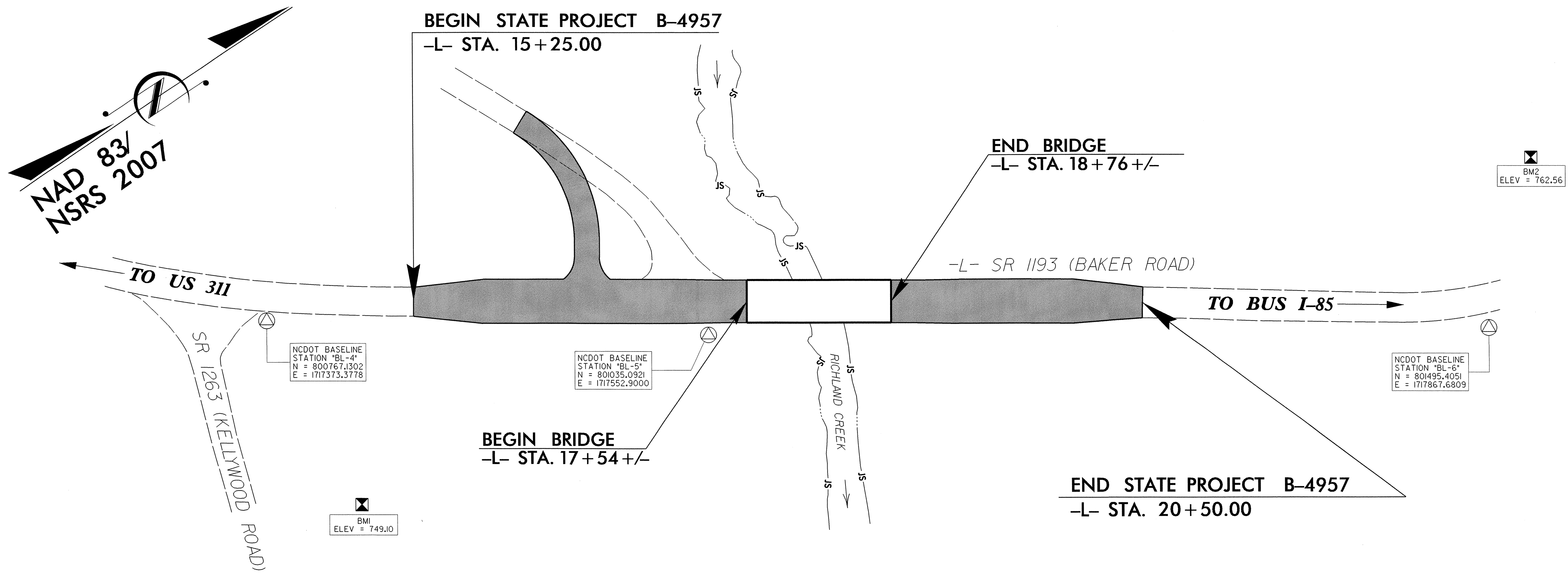
SANITARY SEWER:

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.	⊕
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.

B-4957 SURVEY CONTROL SHEET



NOTES

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
b4957_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.

BASELINE DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
3	BL-3		800522.8022	1717105.5535	782.85	10+58.71	24.44 RT
4	BL-4		800767.1302	1717373.3778	749.86	14+20.57	17.44 RT
5	BL-5		801035.0921	1717552.9000	732.67	17+41.59	13.98 RT
6	BL-6		801495.4051	1717867.6809	748.19	22+97.68	16.24 RT
7	BL-7		801886.3490	1717884.5953	773.92		
1	B4957-1		802238.0340	1717562.1480	803.82	OUTSIDE PROJECT LIMITS	
2	B4957-2		801992.4740	1716545.6140	760.54	19+70.93	1355.70 LT

BENCHMARK DATA

.....
 BM1 ELEVATION = 749.10
 N 800750 E 1717521
 L STATION 14+88.00 146 RIGHT
 RR SPIKE IN BASE OF 15' HICKORY

 BM2 ELEVATION = 762.56
 N 801589 E 1717783
 L STATION 23+52.00 100 LEFT
 RR SPIKE IN BASE OF 15' OAK

⊕ 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)

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B4957-1"
 WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 802,238.034(±) EASTING: 1,717,562.148(±) ELEVATION: 803.82(±)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999133186
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4957-1" TO -L- STATION 15+25.00 IS S 5° 52' 05" 1,382.40'
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

ROW MARKER CONCRETE

ALIGN	STATION	OFFSET	NORTH	EAST
L	20+49.99	40.00	801275.7731	1717746.4457
L	20+50.00	30.00	801281.4950	1717738.2416
L	19+45.70	40.00	801190.2450	1717688.0577
L	20+50.00	-40.00	801321.4884	1717680.7914
L	20+49.98	-29.80	801315.6477	1717689.1477
L	19+45.70	-40.00	801234.7427	1717621.5750
L	16+62.45	-40.15	800999.4334	1717463.8964
L	16+11.52	-40.68	800957.4006	1717435.1311
L	16+12.00	-64.00	800970.7762	1717416.0188
L	15+25.00	-40.00	800885.1270	1717387.5723
L	15+25.00	-30.00	800879.5647	1717395.8826
L	15+25.00	40.01	800840.6253	1717454.0607
L	15+25.00	30.01	800846.1875	1717445.7504

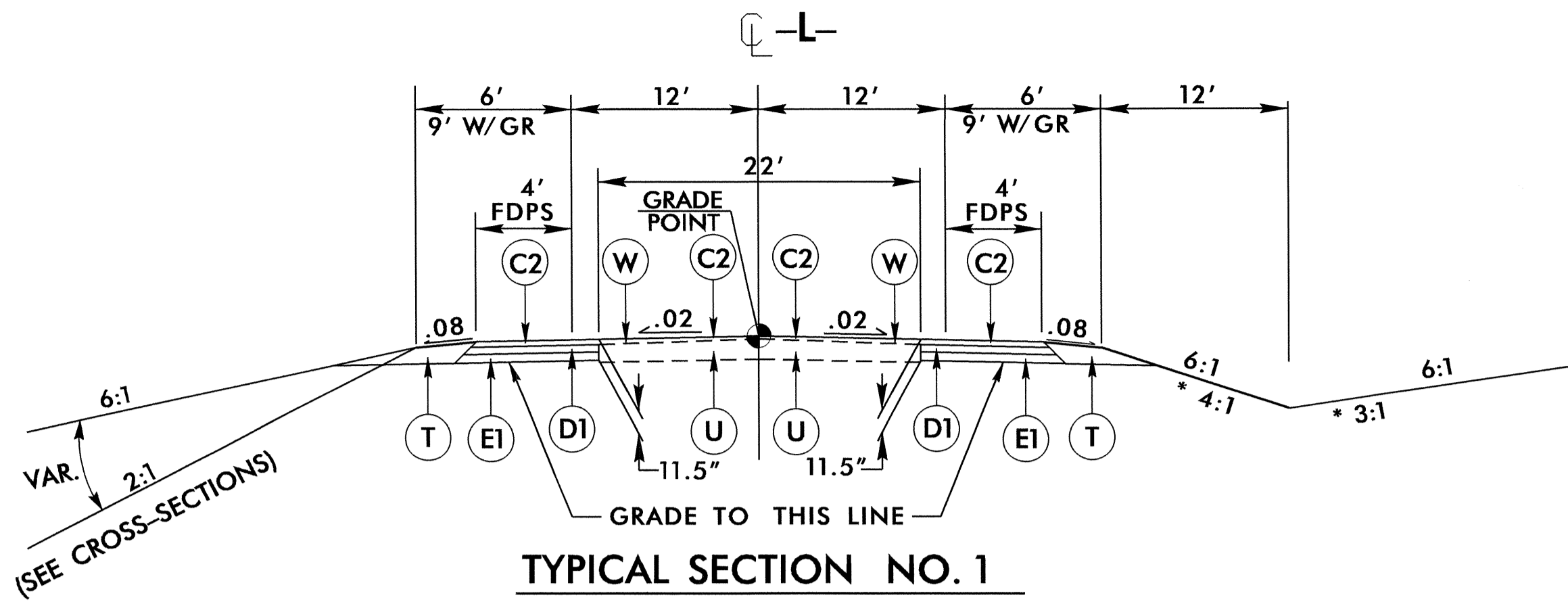
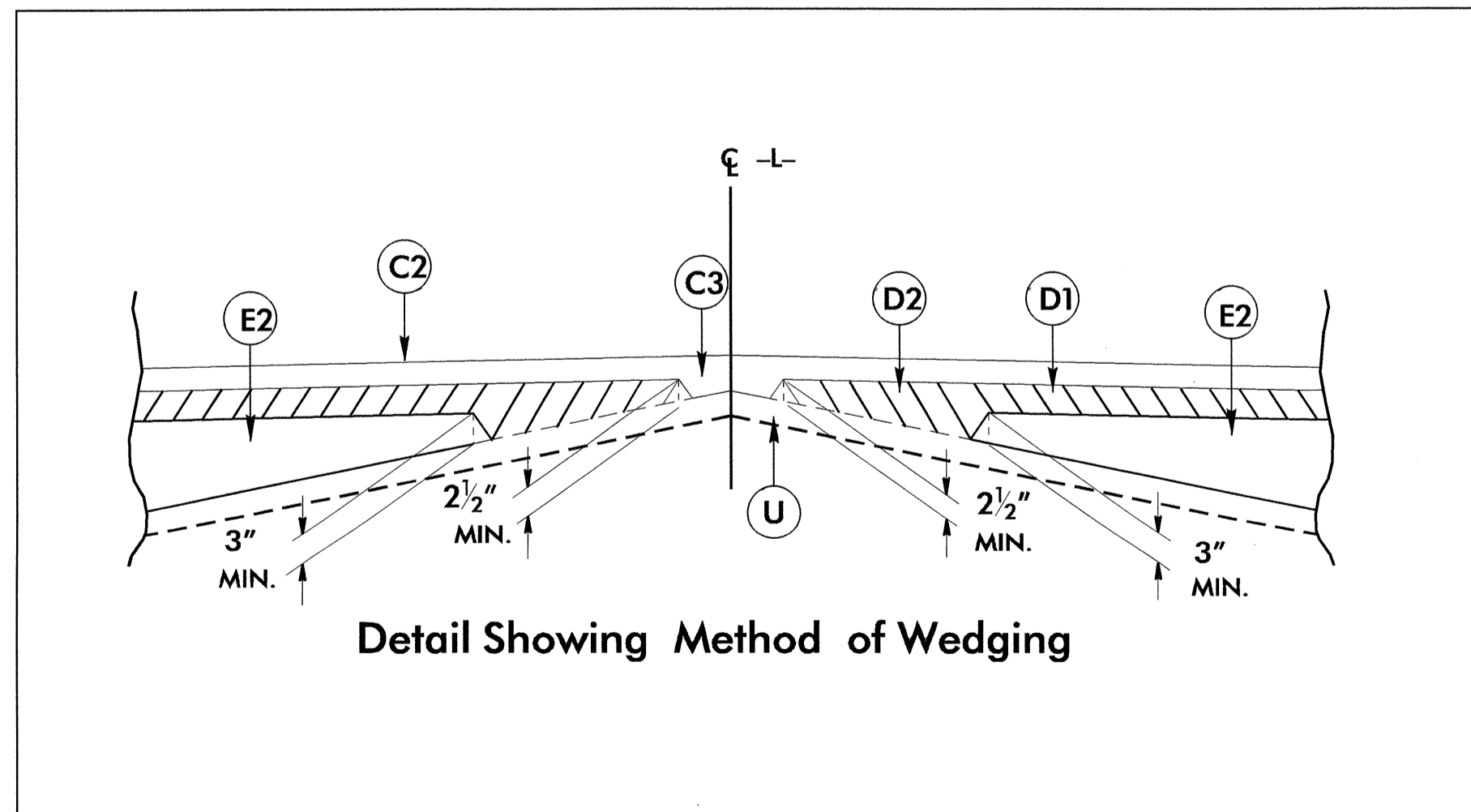
PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	17+65.00	-60.00	801095.6994	1717504.4450
L	17+65.01	-40.00	801084.5803	1717521.0691
L	16+75.00	-60.00	801020.9064	1717454.3849
L	16+75.00	-40.00	801009.7820	1717471.0056
L	19+24.00	-40.00	801216.7093	1717609.5050
L	19+24.00	-53.00	801223.9402	1717598.7015
L	18+93.00	-53.00	801198.1782	1717581.4586
L	18+93.00	-40.00	801190.9473	1717592.2621
L	19+36.00	40.00	801182.1839	1717682.6623
L	19+36.00	60.00	801171.0595	1717699.2830
L	19+05.00	60.00	801145.2975	1717682.0401
L	19+05.00	40.00	801156.4219	1717665.4194

NOTE: DRAWING NOT TO SCALE

FINAL PAVEMENT SCHEDULE	
C1	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 TWO LAYERS.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1 1/2" IN DEPTH OR GREATER THAN 2" IN DEPTH.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 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.
J	PROP. 6" AGGREGATE BASE COURSE
P	PRIME COAT AT THE RATE OF .35 GAL. PER SQ. YARD
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL THIS SHEET)

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



NOTE: TRANSITION FROM EXISTING TO TYPICAL NO. 1
-L- STA. 15+25.00 TO 15+75.00

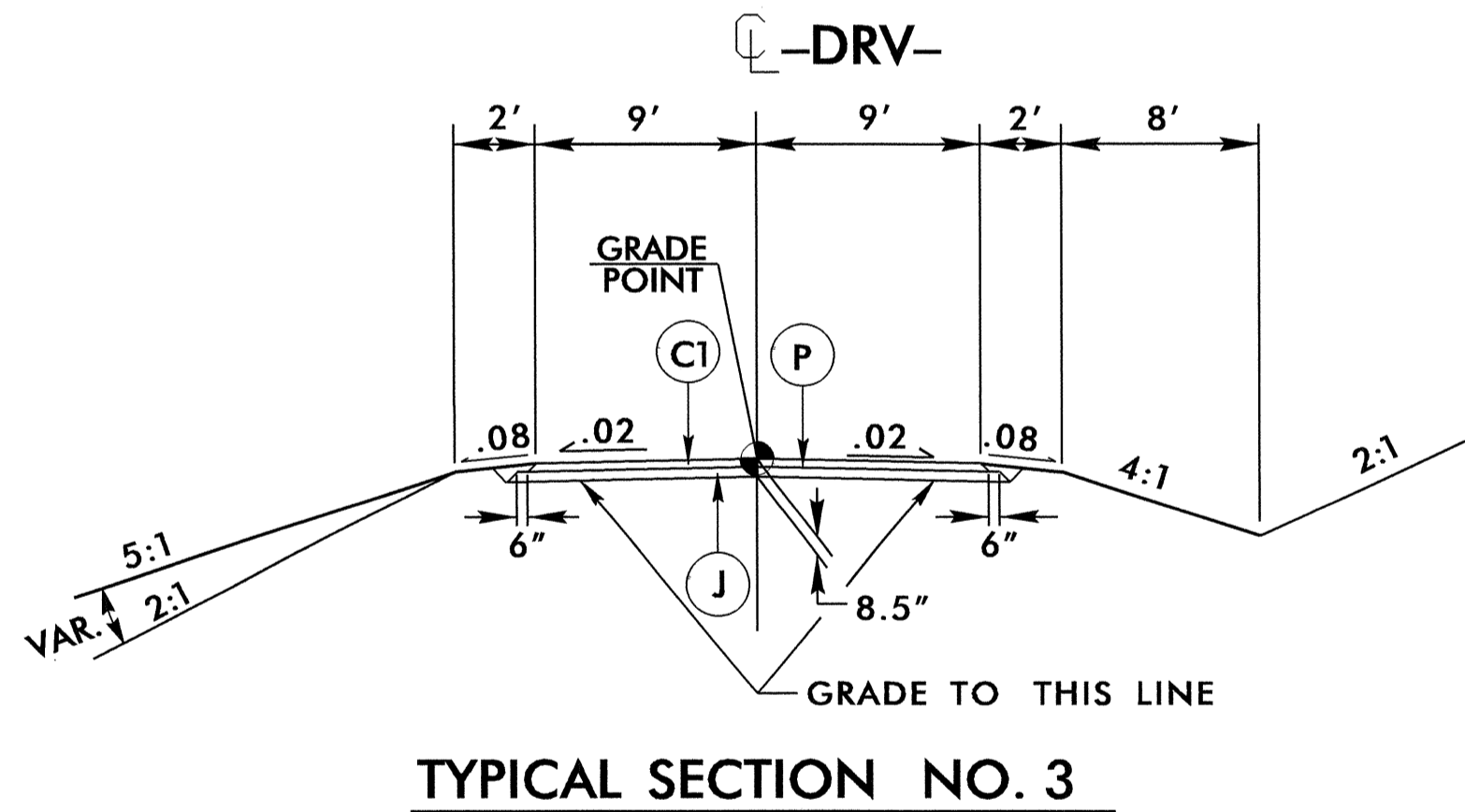
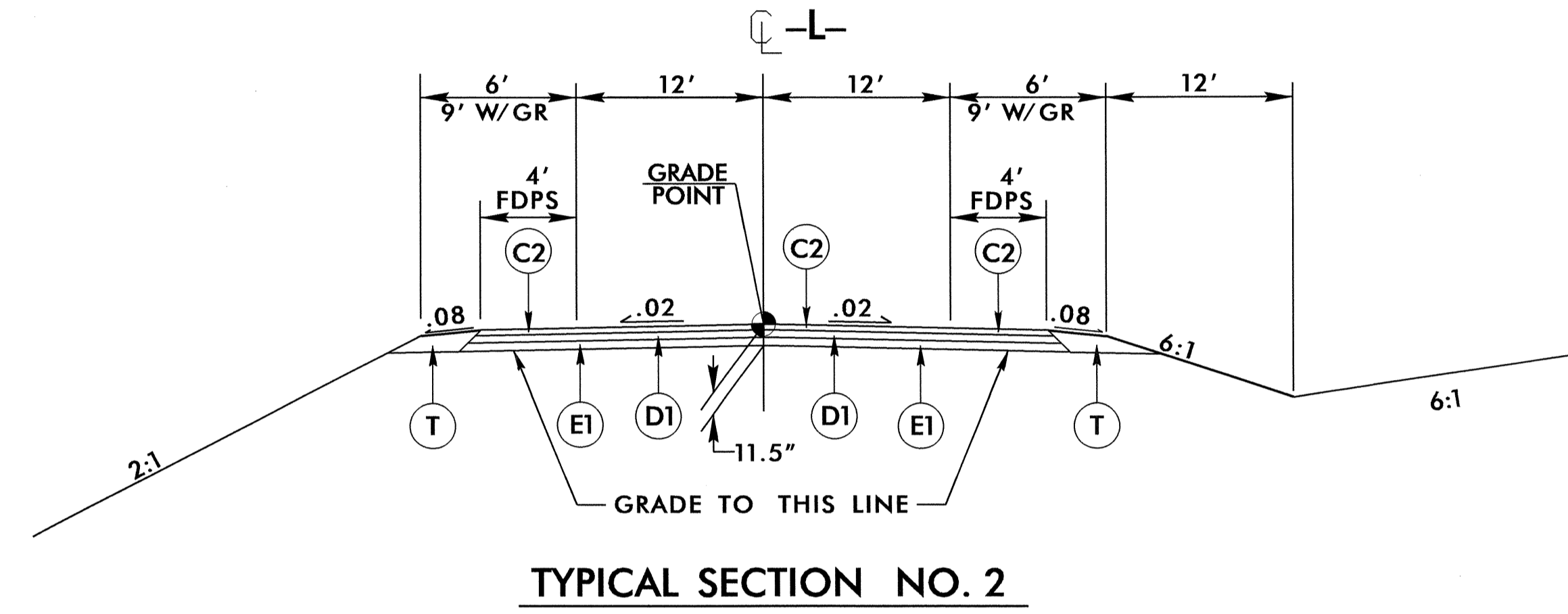
USE TYPICAL SECTION NO. 1

-L- STA. 15+75.00 TO 17+25.00
-L- STA. 19+00.00 TO 20+00.00

NOTE: TRANSITION FROM TYPICAL NO. 1 TO EXISTING
* -L- STA. 20+00.00 TO 20+50.00
(SEE CROSS-SECTIONS FOR DITCH SLOPES)

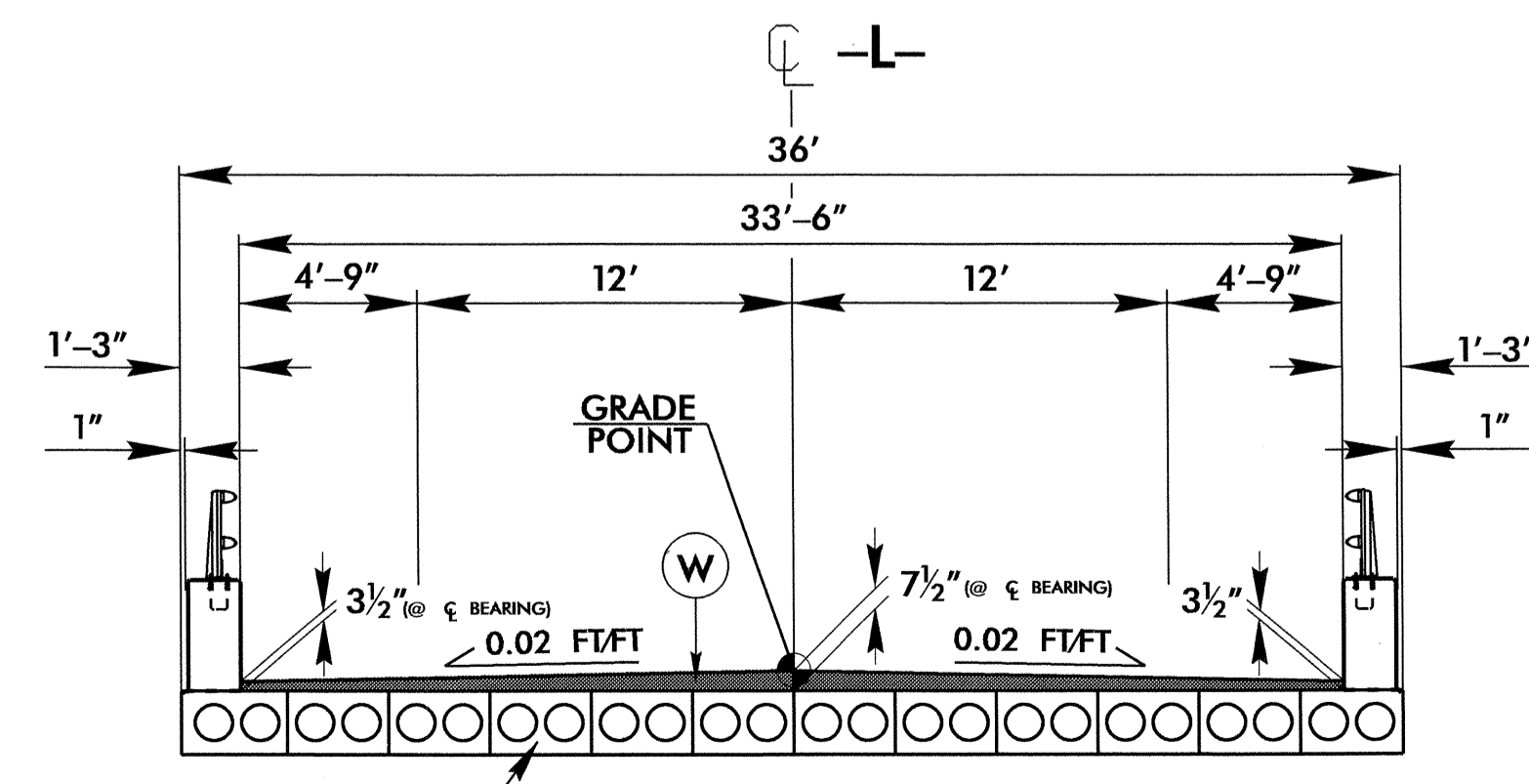
USE TYPICAL SECTION NO. 2

-L- STA. 17+25.00 TO 17+54.06 (BEGIN BRIDGE)
-L- STA. 18+76.56 (END BRIDGE) TO 19+00.00



USE TYPICAL SECTION NO. 3

-DRV- STA. 10+00.00 TO 11+33.58



PROPOSED CORED SLAB BRIDGE
(STRUCTURE PAY ITEM)

USE TYPICAL SECTION NO. 4

-L- STA. 17+54.06 (BEGIN BRIDGE) TO 18+76.56 (END BRIDGE)

SR 1193, BAKER RD IS A DESIGNATED BICYCLE ROUTE NO. 5

6/2/09
I:\MAY-2013\0127\84957_Rdy_tup.dgn
3:33:31 PSE:NAME:8888

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C203159

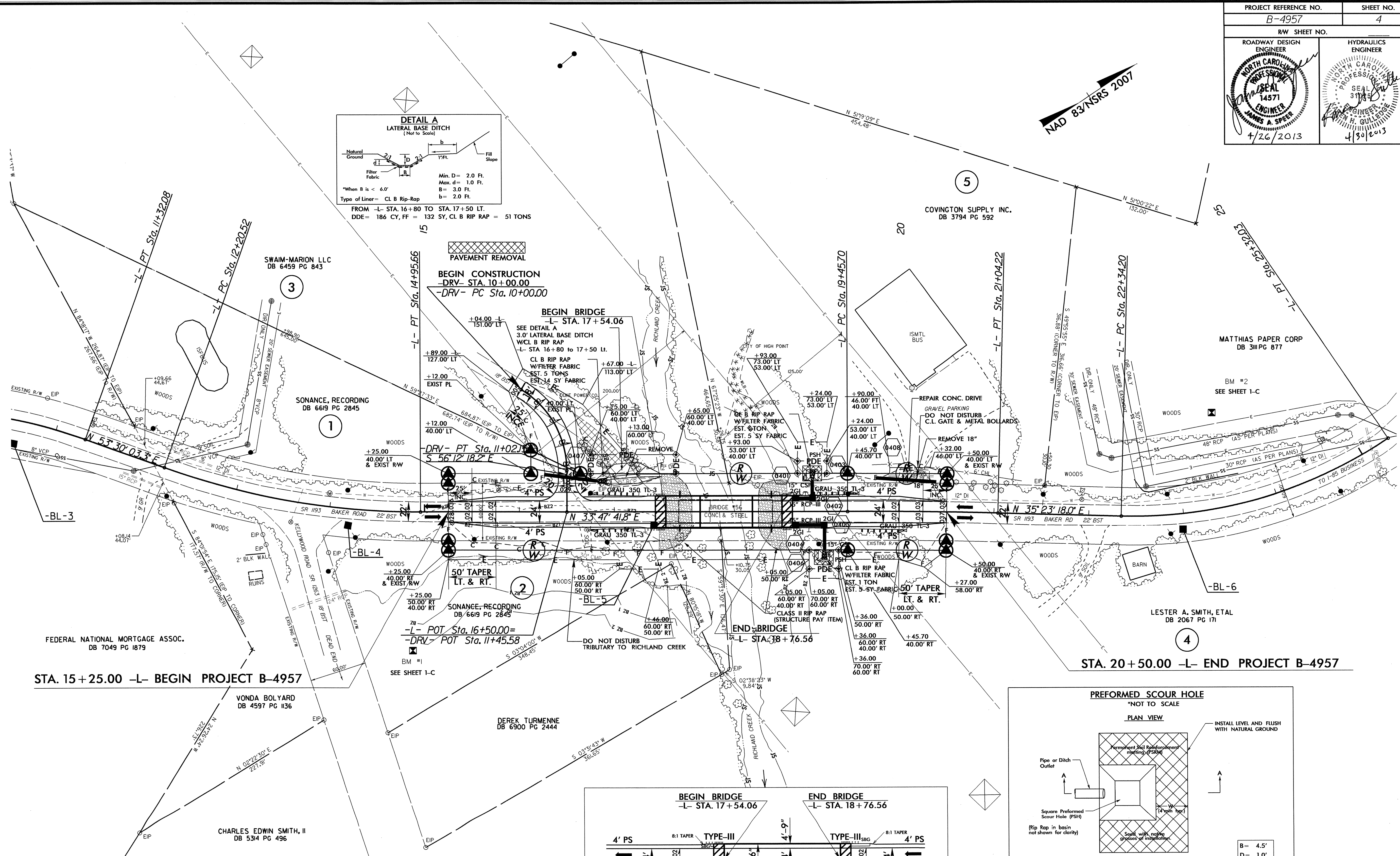
ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
0029000000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (18+15.31-L-)
0043000000-N	226	Lump Sum		GRADING
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB- BING
0057000000-E	226	200	CY	UNDERCUT EXCAVATION
0134000000-E	240	186	CY	DRAINAGE DITCH EXCAVATION
0195000000-E	265	200	CY	SELECT GRANULAR MATERIAL
0196000000-E	270	300	SY	GEOTEXTILE FOR SOIL STABILIZA- TION
0318000000-E	300	30	TON	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES
0320000000-E	300	70	SY	FOUNDATION CONDITIONING GEO- TEXTILE
0344000000-E	310	64	LF	18" SIDE DRAIN PIPE
0345000000-E	310	56	LF	24" SIDE DRAIN PIPE
0366000000-E	310	44	LF	15" RC PIPE CULVERTS, CLASS III
0582000000-E	310	44	LF	15" CS PIPE CULVERTS, 0.064" THICK
0995000000-E	340	48	LF	PIPE REMOVAL
1121000000-E	520	100	TON	AGGREGATE BASE COURSE
1220000000-E	545	100	TON	INCIDENTAL STONE BASE
1275000000-E	600	101.5	GAL	PRIME COAT
1330000000-E	607	100	SY	INCIDENTAL MILLING
1489000000-E	610	390	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
1498000000-E	610	250	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B
1519000000-E	610	380	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
1525000000-E	610	40	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
1575000000-E	620	55	TON	ASPHALT BINDER FOR PLANT MIX

ItemNumber	Sec #	Quantity	Unit	Description
1891000000-E	SP	50	SY	GENERIC PAVING ITEM CONCRETE DRIVEWAY REPAIR
2000000000-N	806	13	EA	RIGHT OF WAY MARKERS
2286000000-N	840	4	EA	MASONRY DRAINAGE STRUCTURES
2367000000-N	840	4	EA	FRAME WITH TWO GRATES, STD 840.29
2556000000-E	846	70	LF	SHOULDER BERM GUTTER
3030000000-E	862	125	LF	STEEL BM GUARDRAIL
3150000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS
3215000000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
3270000000-N	SP	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
3649000000-E	876	60	TON	RIP RAP, CLASS B
3656000000-E	876	1,420	SY	GEOTEXTILE FOR DRAINAGE
3659000000-N	SP	2	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
4072000000-E	903	109	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
4096000000-N	904	2	EA	SIGN ERECTION, TYPE D
4102000000-N	904	3	EA	SIGN ERECTION, TYPE E
4155000000-N	907	8	EA	DISPOSAL OF SIGN SYSTEM, U- CHANNEL
4400000000-E	1110	361	SF	WORK ZONE SIGNS (STATIONARY)
4405000000-E	1110	96	SF	WORK ZONE SIGNS (PORTABLE)
4410000000-E	1110	131	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
4435000000-N	1135	20	EA	CONES
4445000000-E	1145	64	LF	BARRICADES (TYPE III)
4450000000-N	1150	160	HR	FLAGGER
4685000000-E	1205	1,025	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
4686000000-E	1205	1,075	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
6000000000-E	1605	4,800	LF	TEMPORARY SILT FENCE
6006000000-E	1610	250	TON	STONE FOR EROSION CONTROL, CLASS A
6009000000-E	1610	60	TON	STONE FOR EROSION CONTROL, CLASS B
6012000000-E	1610	465	TON	SEDIMENT CONTROL STONE
6015000000-E	1615	1	ACR	TEMPORARY MULCHING
6018000000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
6021000000-E	1620	1.25	TON	FERTILIZER FOR TEMPORARY SEED- ING
6024000000-E	1622	200	LF	TEMPORARY SLOPE DRAINS
6029000000-E	SP	600	LF	SAFETY FENCE
6030000000-E	1630	275	CY	SILT EXCAVATION
6036000000-E	1631	2,500	SY	MATTING FOR EROSION CONTROL
6037000000-E	SP	300	SY	COIR FIBER MAT
6038000000-E	SP	150	SY	PERMANENT SOIL REINFORCEMENT MAT
6042000000-E	1632	865	LF	1/4" HARDWARE CLOTH
6070000000-N	1639	12	EA	SPECIAL STILLING BASINS
6071012000-E	SP	120	LF	COIR FIBER WATTLE
6071020000-E	SP	40	LB	POLYACRYLAMIDE (PAM)
6071030000-E	1640	260	LF	COIR FIBER BAFFLE
6071050000-E	SP	3	EA	*** SKIMMER (1-1/2")
6084000000-E	1660	1	ACR	SEEDING & MULCHING
6087000000-E	1660	0.5	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

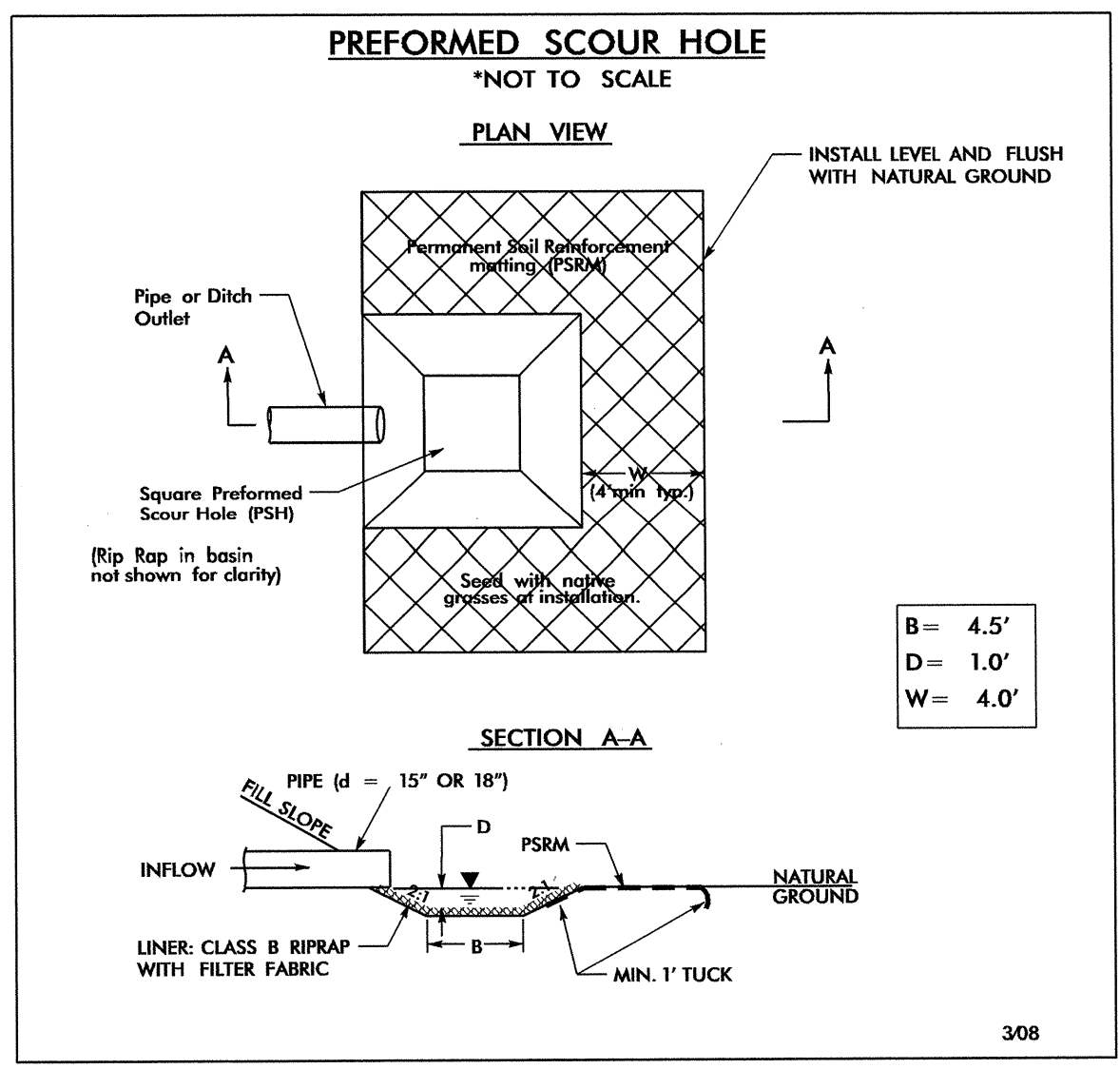
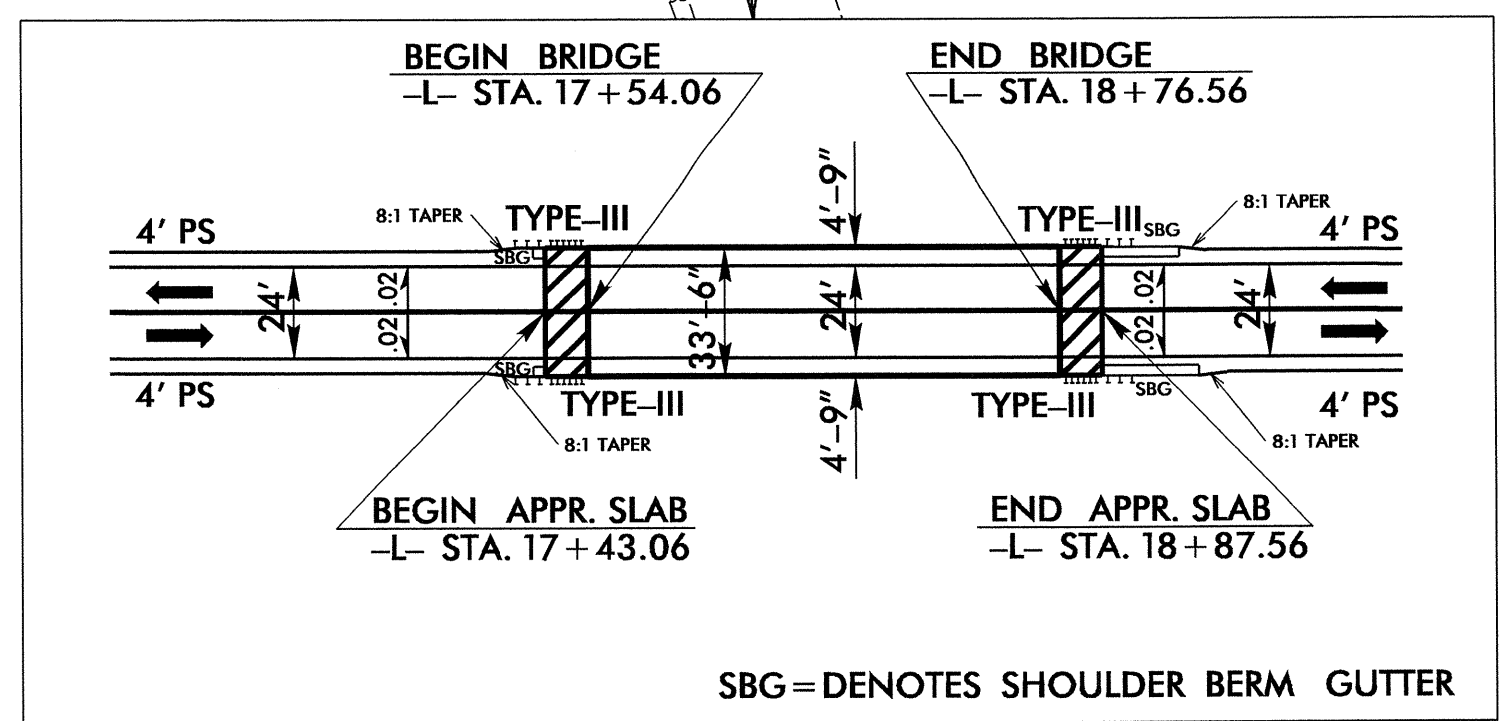
5/28/99

I:\FFB-2013_08454
R:\Roadway\Proj\B4957_Rd\sum.dgn
\$\$\$\$\$157714116\$\$\$\$\$

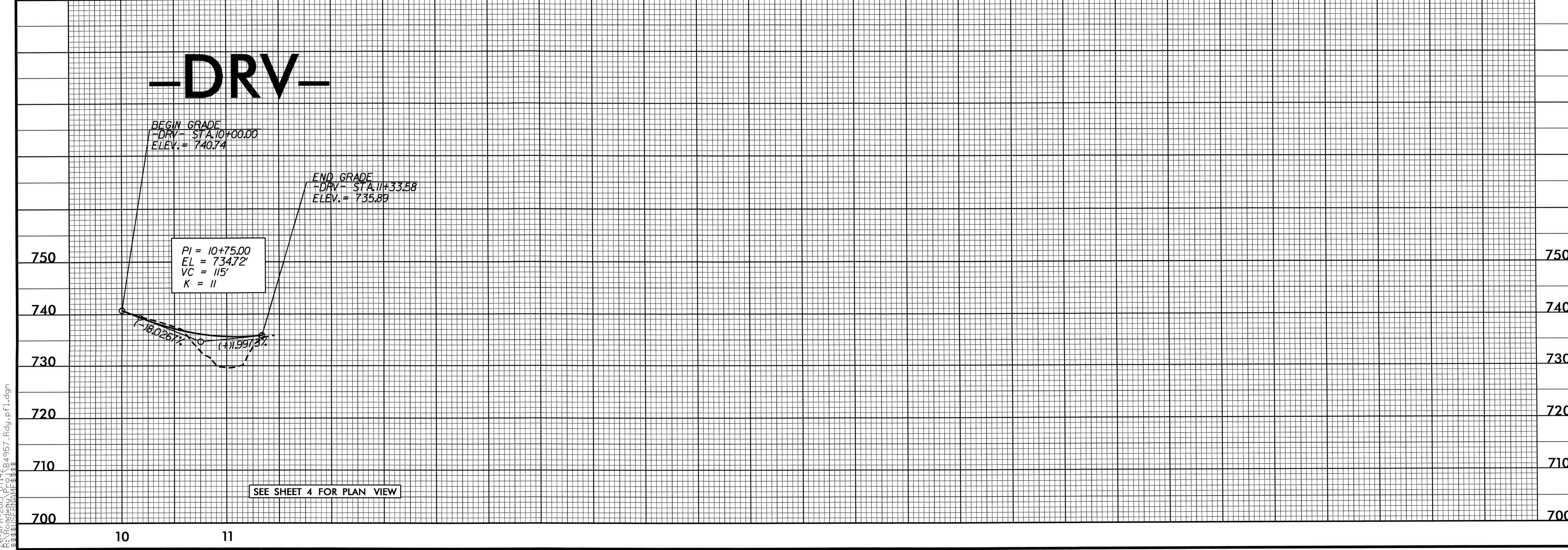
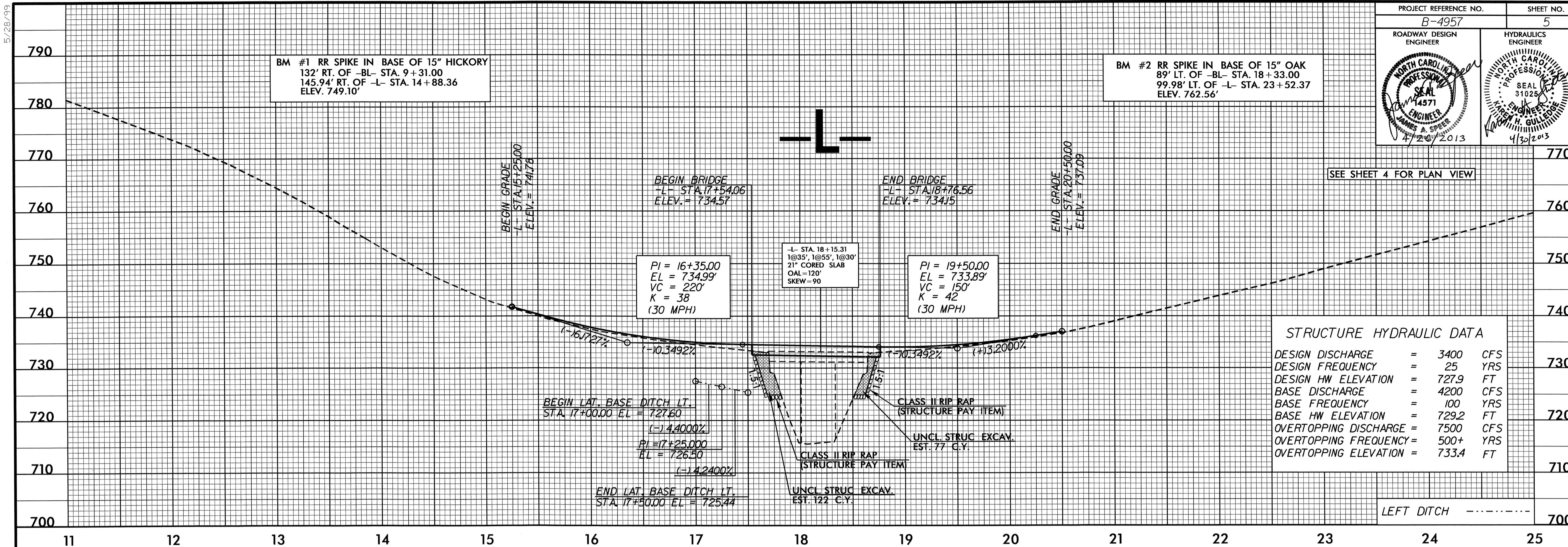
8/17/99
26-APR-2013 07:42
R:\Roadway\Proj\B4957-Rdy-psd.dgn
3:58:51 PM



-L-		-DRV-	
PI Sta 10+66.36	PI Sta 13+59.46	PI Sta 20+24.96	PI Sta 23+88.09
$\Delta = 13^{\circ} 45' 31.7''$ (RT)	$\Delta = 19^{\circ} 42' 21.5''$ (LT)	$\Delta = 1^{\circ} 35' 36.2''$ (RT)	$\Delta = 35^{\circ} 33' 03.4''$ (LT)
$D = 10^{\circ} 25' 02.7''$	$D = 7^{\circ} 09' 43.1''$	$D = 1^{\circ} 00' 18.7''$	$D = 11^{\circ} 56' 11.8''$
$L = 132.08'$	$L = 275.15'$	$L = 158.52'$	$L = 297.83'$
$T = 66.36'$	$T = 138.95'$	$T = 79.26'$	$T = 153.88'$
$R = 550.00'$	$R = 800.00'$	$R = 5,700.00'$	$R = 480.00'$



-L- STA. 18+15 Lt.
-L- STA. 18+20 Rt.
SEE SHEET 5 FOR -L- PROFILE
SEE SHEET 5 FOR -DRV- PROFILE
SEE SHEET S1 THRU S27 FOR STRUCTURE PLANS



5/28/13

26 APR 2013 07:42:04 494957_Rd.dwg