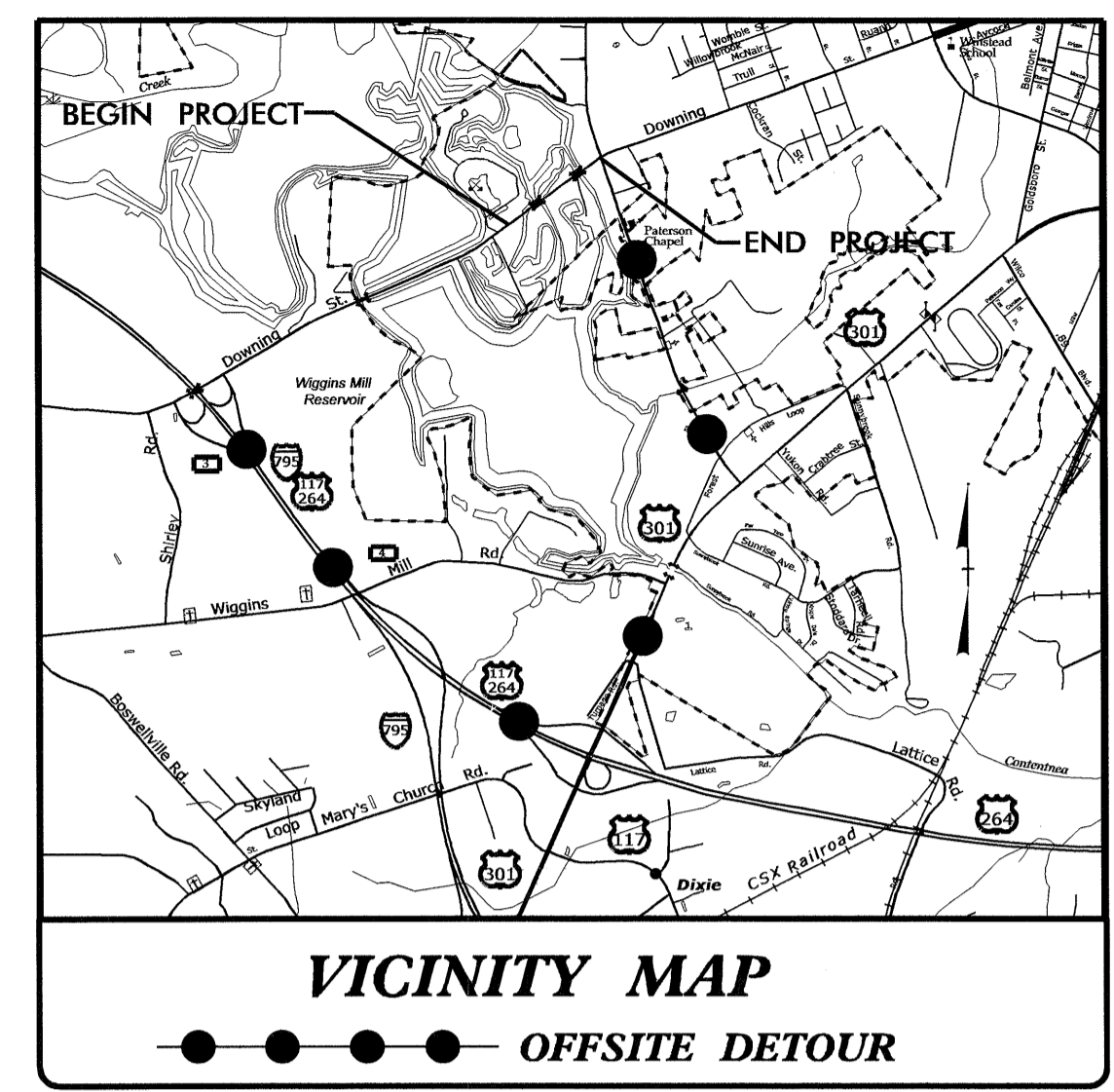


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TIP PROJECT: B-4679/B-5126

CONTRACT: C203157

See Sheet 1-A For Index of Sheets



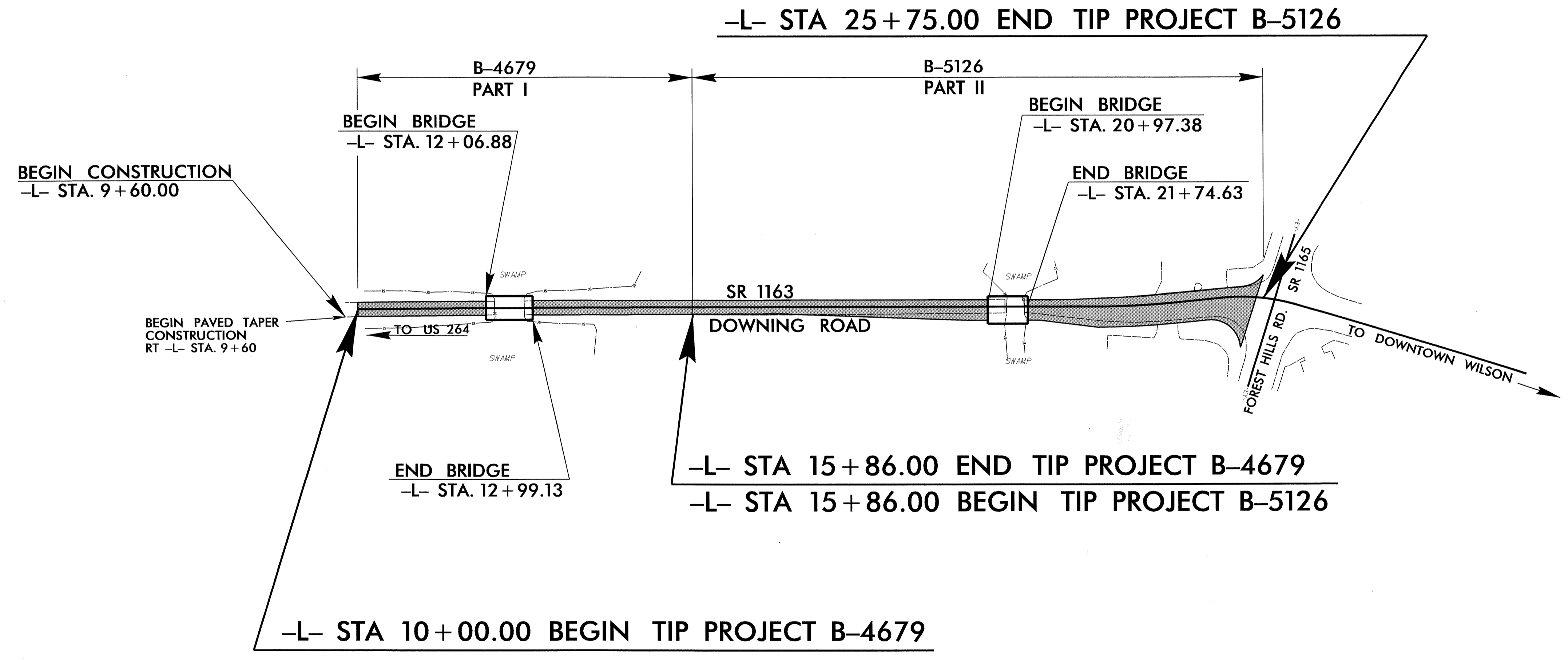
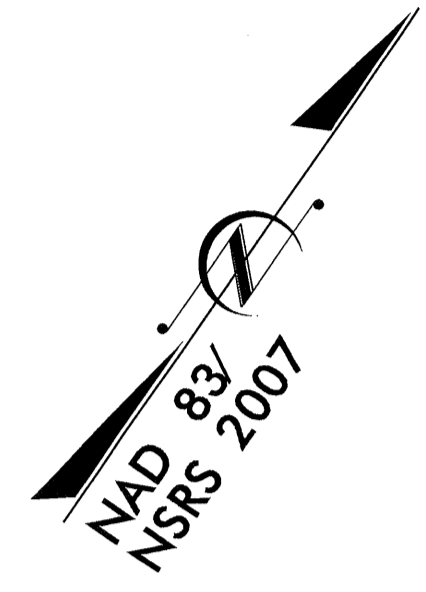
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WILSON COUNTY

LOCATION: BRIDGES NO. 65 AND NO. 66 OVER SWAMPS OF CONTENTNEA CREEK AT WIGGINS MILL RESERVOIR ON SR 1163 (DOWNING ROAD) IN WILSON

TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES, AND SIGNAL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4679/B-5126	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33833.1.1	BRSTP-1163(4)	B-4679 (PE)	
33833.2.1	BRSTP-1163(4)	B-4679 (RW & UTIL)	
42283.1.1	BRSTP-1163(8)	B-5126 (PE)	
42283.2.1	BRSTP-1163(8)	B-5126 (RW & UTIL)	
33833.3.1	BRSTP-1163(4)	B-4679/B-5126(CONST)	

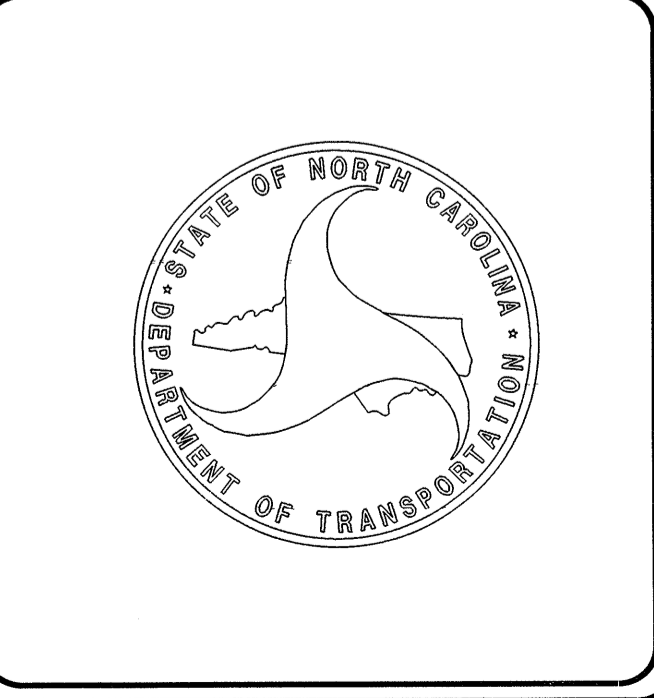


PROJECT LENGTH

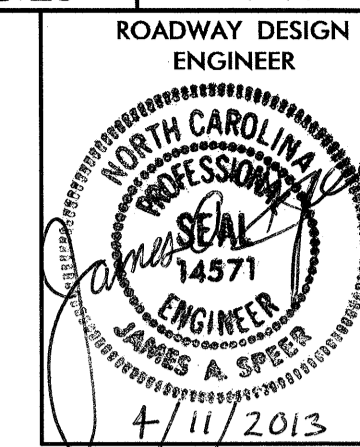
LENGTH OF ROADWAY TIP PROJECT B-4679 /B-5126 = 0.266 MILES
 LENGTH OF STRUCTURE TIP PROJECT B-4679 /B-5126 = 0.032 MILES
 TOTAL LENGTH OF STATE PROJECT B-4679 /B-5126 = 0.298 MILES

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

2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: JUNE 15, 2012	JAMES A. SPEER, PE PROJECT ENGINEER
LETTING DATE: JUNE 18, 2013	ALLISON K. WHITE PROJECT DESIGN ENGINEER



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 R:\Roadway\Proj\B-5126.Rdy_tsh.dgn
 \$\$\$USERNAME\$\$\$



B-17/99

SHEET NUMBER	SHEET
1	TITLE SHEET (B-4679 & B-5126)
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
2	CONVENTIONAL SYMBOLS
3	SUMMARY OF QUANTITIES
PART I	
1	TITLE SHEET (B-4679)
1-C THRU 1-D	SURVEY CONTROL SHEETS
2	TYPICAL SECTION, PAVEMENT SCHEDULE
2-A	DETAIL OF MODIFIED CONCRETE FLUME
3A	SUMMARY OF DRAINAGE QUANTITIES, SUMMARY OF GUARDRAIL, EARTHWORK SUMMARY, SHOULDER BERM GUTTER SUMMARY, AND PAVEMENT REMOVAL SUMMARY
4	PLAN SHEET
5	PROFILE SHEET
TMP-1 THRU TMP-9	TRANSPORTATION MANAGEMENT PLANS
SD-1	WORK ZONE SIGNS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-2	SIGNING PLANS
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS
X-1A	CROSS SECTION VOLUME SHEET
X-1 THRU X-2	PROPOSED CROSS SECTIONS
S-1 THRU S-21	STRUCTURE PLANS
PART II	
1	TITLE SHEET (B-5126)
1-C THRU 1-D	SURVEY CONTROL SHEETS
2 THRU 2A	TYPICAL SECTION, PAVEMENT SCHEDULE
2-B	DETAIL OF MODIFIED CONCRETE FLUME
3A	SUMMARY OF DRAINAGE QUANTITIES, SUMMARY OF GUARDRAIL, EARTHWORK SUMMARY, SHOULDER BERM GUTTER SUMMARY, AND PAVEMENT REMOVAL SUMMARY
4	PLAN SHEET
5	PROFILE SHEET
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-2	SIGNING PLANS
SIG-1 THRU SIG-7	SIGNAL PLANS
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS
X-1A	CROSS SECTION VOLUME SHEET
X-1 THRU X-3	PROPOSED CROSS SECTIONS
S-1 THRU S-21	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. 560.01.

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.

SUBSURFACE DRAINS:
 SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

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

STREET TURNOUT:
 STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

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 THE B-4679 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
 CITY OF WILSON POWER, CENTURYLINK 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 OTHERS.

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
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 4 - MAJOR STRUCTURES	
422.11	Reinforced Bridge Approach Fills - Sub Regional Tier
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
815.02	Subsurface Drain
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
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
846.01	Concrete Curb, Gutter and Curb & Gutter
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets

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	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	▭
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	○
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 RW Marker	○ RW
Proposed Control of Access Line with Concrete CA Marker	○ CA
Existing Control of Access	○ CA
Proposed Control of Access	○ CA
Existing Easement Line	-----
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	-----

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	S

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.*)	-----
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	2UTL
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.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C203157

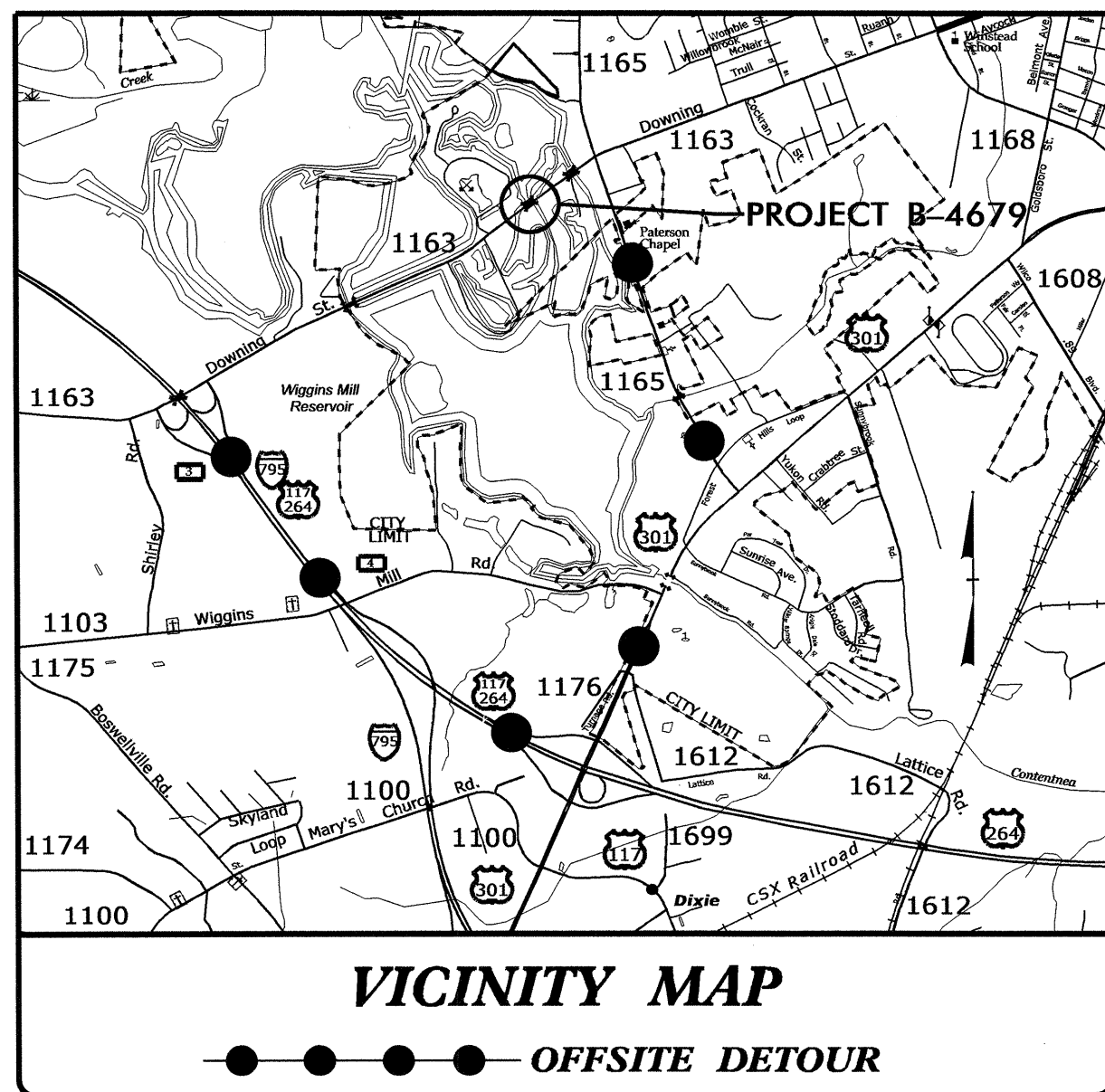
ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
000010000-N	800	Lump Sum		MOBILIZATION	436000000-N	SP	1	EA	GENERIC SIGNING ITEM TEMP SIGN COVERINGS TYPE D
003000000-N	SP	Lump Sum		BRIDGE APPROACH FILL - SUB REGIONAL TIER, STATION ***** (12+53.00)	440000000-E	1110	602	SF	WORK ZONE SIGNS (STATIONARY)
003000000-N	SP	Lump Sum		BRIDGE APPROACH FILL - SUB REGIONAL TIER, STATION ***** (21+36.25)	440500000-E	1110	110	SF	WORK ZONE SIGNS (PORTABLE)
005000000-E	226	2	ACR	SUPPLEMENTARY CLEARING & GRUB- BING	441000000-E	1110	94	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
005700000-E	226	843	CY	UNDERCUT EXCAVATION	441500000-N	1115	2	EA	FLASHING ARROW BOARD
006300000-N	SP	Lump Sum		GRADING	442000000-N	1120	5	EA	PORTABLE CHANGEABLE MESSAGE SIGN
010600000-E	230	3,697	CY	BORROW EXCAVATION	443000000-N	1130	100	EA	DRUMS
019500000-E	265	850	CY	SELECT GRANULAR MATERIAL	444500000-E	1145	116	LF	BARRICADES (TYPE III)
019600000-E	270	850	SY	GEOTEXTILE FOR SOIL STABILIZA- TION	468500000-E	1205	2,980	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
031800000-E	300	40	TON	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	468600000-E	1205	3,249	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
032000000-E	300	100	SY	FOUNDATION CONDITIONING GEO- TEXTILE	471000000-E	1205	48	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
034300000-E	310	120	LF	15" SIDE DRAIN PIPE	472500000-E	1205	7	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
034400000-E	310	144	LF	18" SIDE DRAIN PIPE	477000000-E	1205	721	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)
122000000-E	545	200	TON	INCIDENTAL STONE BASE	600000000-E	1605	2,950	LF	TEMPORARY SILT FENCE
148900000-E	610	1,830	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	600600000-E	1610	500	TON	STONE FOR EROSION CONTROL, CLASS A
149800000-E	610	1,330	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	600900000-E	1610	140	TON	STONE FOR EROSION CONTROL, CLASS B
151900000-E	610	1,110	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	601200000-E	1610	215	TON	SEDIMENT CONTROL STONE
157500000-E	620	215	TON	ASPHALT BINDER FOR PLANT MIX	601500000-E	1615	3	ACR	TEMPORARY MULCHING
202200000-E	815	44.8	CY	SUBDRAIN EXCAVATION	601800000-E	1620	100	LB	SEED FOR TEMPORARY SEEDING
202600000-E	815	200	SY	GEOTEXTILE FOR SUBSURFACE DRAINS	602100000-E	1620	0.5	TON	FERTILIZER FOR TEMPORARY SEED- ING
203600000-E	815	33.6	CY	SUBDRAIN COARSE AGGREGATE	602400000-E	1622	400	LF	TEMPORARY SLOPE DRAINS
204400000-E	815	200	LF	6" PERFORATED SUBDRAIN PIPE	602900000-E	SP	1,800	LF	SAFETY FENCE
207000000-N	815	2	EA	SUBDRAIN PIPE OUTLET	603000000-E	1630	330	CY	SILT EXCAVATION
207700000-E	815	12	LF	6" OUTLET PIPE	603600000-E	1631	7,325	SY	MATTING FOR EROSION CONTROL
226400000-E	840	0.09	CY	PIPE PLUGS	603700000-E	SP	200	SY	COIR FIBER MAT
228600000-N	840	1	EA	MASONRY DRAINAGE STRUCTURES	604200000-E	1632	250	LF	1/4" HARDWARE CLOTH
236700000-N	840	1	EA	FRAME WITH TWO GRATES, STD 840.29	604800000-E	SP	435	SY	FLOATING TURBIDITY CURTAIN
254900000-E	846	390	LF	2'-6" CONCRETE CURB & GUTTER	607000000-N	1639	4	EA	SPECIAL STILLING BASINS
255600000-E	846	132	LF	SHOULDER BERM GUTTER	6071012000-E	SP	210	LF	COIR FIBER WATTLE
257000000-N	SP	4	EA	MODIFIED CONCRETE FLUME	6071020000-E	SP	35	LB	POLYACRYLAMIDE (PAM)
261200000-E	848	30	SY	6" CONCRETE DRIVEWAY	608400000-E	1660	3	ACR	SEEDING & MULCHING
303000000-E	862	537.5	LF	STEEL BM GUARDRAIL	608700000-E	1660	1.25	ACR	MOWING
315000000-N	862	10	EA	ADDITIONAL GUARDRAIL POSTS	609000000-E	1661	100	LB	SEED FOR REPAIR SEEDING
321500000-N	862	8	EA	GUARDRAIL ANCHOR UNITS, TYPE III	609300000-E	1661	0.5	TON	FERTILIZER FOR REPAIR SEEDING
327000000-N	SP	8	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	609600000-E	1662	100	LB	SEED FOR SUPPLEMENTAL SEEDING
363500000-E	876	20	TON	RIP RAP, CLASS II	610800000-E	1665	2.25	TON	FERTILIZER TOPDRESSING
365600000-E	876	1,205	SY	GEOTEXTILE FOR DRAINAGE	611100000-E	SP	265	LF	IMPERVIOUS DIKE
402500000-E	901	39	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (A)	611450000-N	1667	20	MHR	SPECIALIZED HAND MOWING
402500000-E	901	572	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (OVERLAY SIGN)	611700000-N	SP	50	EA	RESPONSE FOR EROSION CONTROL
407200000-E	903	27	LF	SUPPORTS, 3-LB STEEL U-CHANNEL	730000000-E	1715	200	LF	UNPAVED TRENCHING (***** (1, 2")
410200000-N	904	2	EA	SIGN ERECTION, TYPE E	730100000-E	1715	100	LF	DIRECTIONAL DRILL (***** (1, 2")
411000000-N	904	2	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	732400000-N	1716	3	EA	JUNCTION BOX (STANDARD SIZE)
411500000-N	904	3	EA	SIGN ERECTION, OVERLAY (OVER- HEAD)	744400000-E	1725	555	LF	INDUCTIVE LOOP SAWCUT
411600000-N	904	5	EA	SIGN ERECTION, OVERLAY (GROUND MOUNTED)	745600000-E	1726	500	LF	LEAD-IN CABLE (***** (14-2)
415500000-N	907	9	EA	DISPOSAL OF SIGN SYSTEM, U- CHANNEL					
415800000-N	907	5	EA	DISPOSAL OF SIGN SYSTEM, WOOD					
436000000-N	SP	8	EA	GENERIC SIGNING ITEM TEMP SIGN COVERINGS TYPE A					

5/28/99

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See Sheet 1-A For Index of Sheets



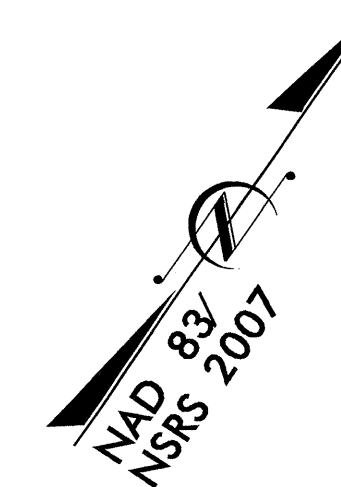
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WILSON COUNTY

**LOCATION: BRIDGE NO. 66 OVER A SWAMP OF CONTENTNEA CREEK
AT WIGGINS MILL RESERVOIR ON SR 1163
(DOWNING ROAD) IN WILSON**

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

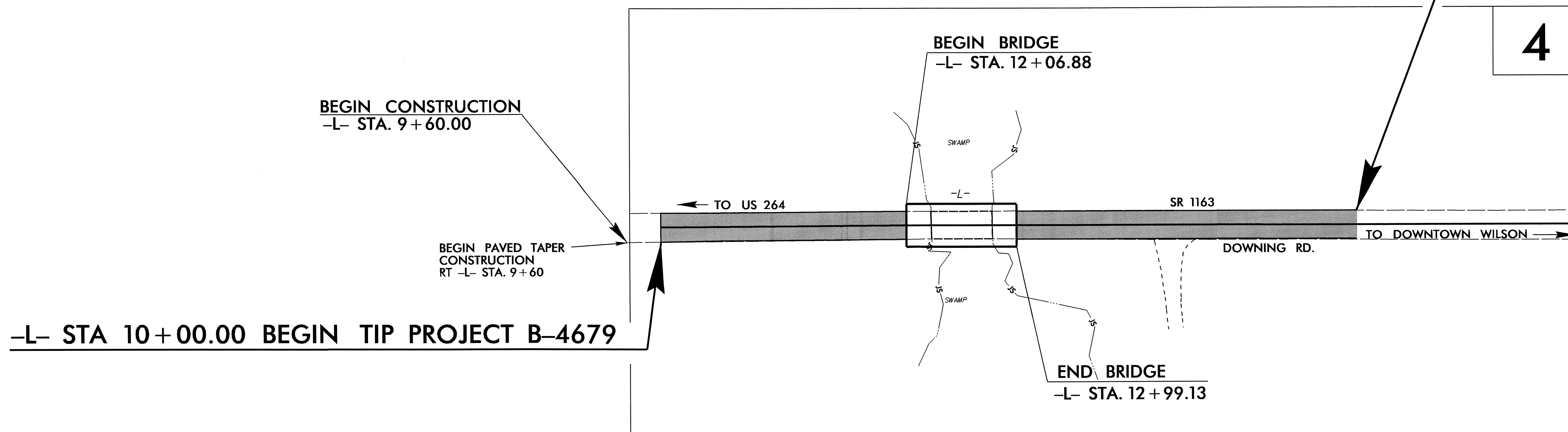
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
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STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33833.1.1	BRSTP-1163(4)	PE	
33833.2.1	BRSTP-1163(4)	RW & UTIL	
33833.3.1	BRSTP-1163(4)	CONST.	



TIP PROJECT: B-4679

CONTRACT: C203157

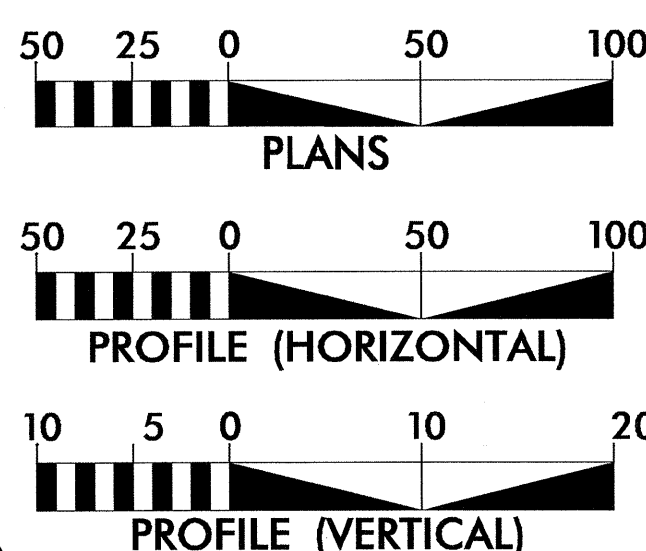
-L- STA 15+86.00 END TIP PROJECT B-4679



-L- STA 10+00.00 BEGIN TIP PROJECT B-4679

PART 1

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 8,774
ADT 2035 = 14,700
DHV = 14 %
D = 80 %
T = 3 % *
V = 60 MPH
* TTST = 1% DUAL = 2%
FUNC CLASS = LOCAL
SUB REGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4679 = 0.094 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4679 = 0.017 MILES
TOTAL LENGTH OF STATE PROJECT B-4679 = 0.111 MILES

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

2012 STANDARD SPECIFICATIONS

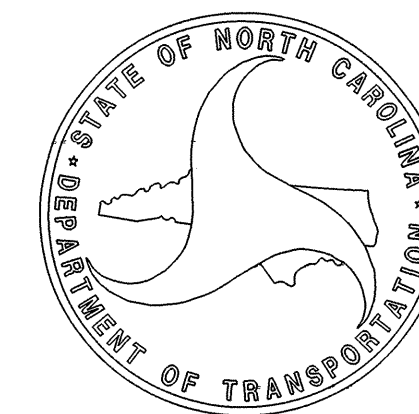
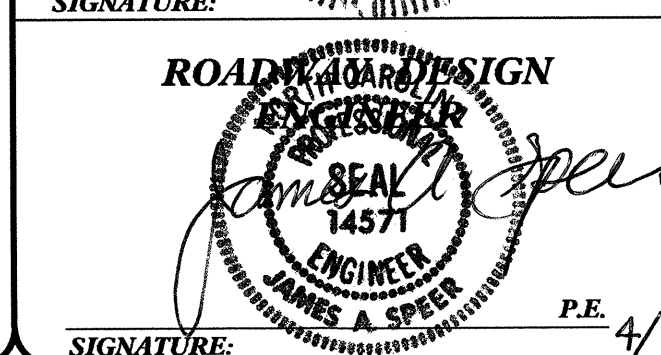
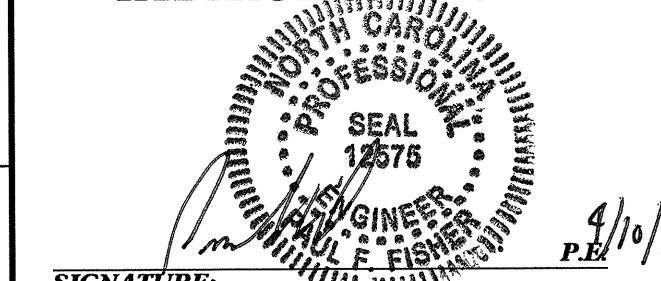
RIGHT OF WAY DATE:
June 15, 2012

LETTING DATE:
June 18, 2013

JAMES A. SPEER, PE
PROJECT ENGINEER

ALLISON K. WHITE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER



08-APR-2013 13:42
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\$\$\$\$\$USERNAME\$\$\$\$\$

6/2/09

SURVEY CONTROL SHEET B4679

PROJECT REFERENCE NO.	SHEET NO.
B-4679	1 C
Location and Surveys	

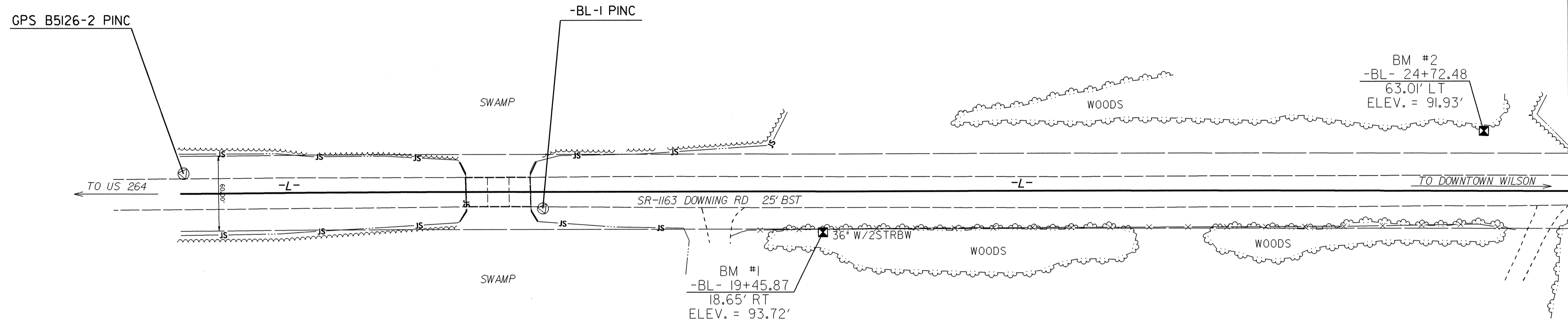
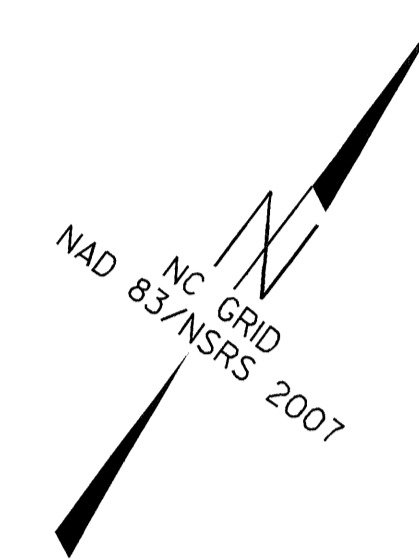
BASELINE DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
10		GPS B5126-1	712627.6120	2309187.3540	93.87	OUTSIDE PROJECT LIMITS	
20		GPS B5126-2	713189.8860	2309934.5890	93.75	10+02.83	16.25 LT
1		BL-1	713338.7520	2310180.6970	94.48	12+88.99	13.03 RT
2		BL-2	713858.1680	2310883.2600	93.89	21+62.76	15.23 RT
3		BL-3	714134.3110	2311160.0090	94.77	25+49.77	25.95 LT

BENCHMARK DATA

 100 ELEVATION = 93.72
 N 713456 E 2310371
 L STATION 15+12.00 33 RIGHT
 BM#1 RR SPIKE IN BASE OF 20" PINE

 101 ELEVATION = 91.93
 N 713835 E 2310746
 L STATION 20+39.00 48 LEFT
 BM#2 RR SPIKE IN BASE OF 24" MAPLE



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:
 B4679_LS_CONTROL_110914.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)

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS B5126-2" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 713189.886(±) EASTING: 2309934.589(±) ELEVATION: 93.753(±±)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99990479
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS B5126-2" TO -L- STATION 10+00.00 IS
 S 27°17'31.6" E 16.49'
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE

12-MAR-2009 13:56
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SURVEY CONTROL SHEET B-4679

PROJECT REFERENCE NO. B-4679	SHEET NO. 1 D
Location and Surveys	

ALIGNMENTS

ALN3

TYPE	STATION	NORTH	EAST
POT	23+13.46	713960.0524	2310995.3395
EQB	23+70.58	713994.0286	2311041.2558
EOA	12+07.29	713994.0286	2311041.2558
PT	13+65.19	714085.2999	2311170.0877

EYTEST1

TYPE	STATION	NORTH	EAST
POT	10+00.00	714254.7633	2311180.9623
POT	11+20.00	714141.5465	2311220.7361
POT	12+80.00	713990.5907	2311273.7677

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	10+00.00	30.00	713151.3196	2309960.2735
L	10+00.00	-45.00	713211.0906	2309914.9698
L	10+00.00	-30.00	713199.1364	2309924.0305
L	10+00.00	45.00	713139.3654	2309969.3342
L	11+92.88	-45.00	713327.5995	2310068.6850
L	11+92.88	45.00	713255.8732	2310123.0502
L	14+73.53	-45.00	713495.6001	2310293.9320
L	14+73.53	45.00	713423.4564	2310347.7399
L	15+06.21	-45.00	713515.1442	2310320.1539
L	15+06.21	45.00	713442.9654	2310373.9146

BL

TYPE	STATION	NORTH	EAST
POT	5+00.00	712627.6120	2309187.3540
POT	14+35.15	713189.8860	2309934.5890
POT	17+22.78	713338.7520	2310180.6970
POT	25+96.50	713858.1680	2310883.2600
POT	29+87.46	714134.3110	2311160.0090

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	713175.2280	2309942.1520
POT	11+92.88	713291.7360	2310095.8660
PC	14+73.53	713459.5283	2310320.8359
PT	15+06.21	713479.0548	2310347.0343
PC	17+08.24	713599.7391	2310509.0643
PT	19+59.35	713749.4220	2310710.6876
PC	23+13.53	713960.0956	2310995.3979
PRC	24+87.07	714073.4787	2311126.5595
PT	26+42.89	714157.0273	2311256.6226
PC	26+74.75	714168.0535	2311286.5153
PT	29+61.82	714264.0147	2311557.0632
POT	30+63.27	714296.7268	2311653.0918

DRIVE1

TYPE	STATION	NORTH	EAST
POT	10+00.00	713192.3278	2310416.3250
POT	12+85.12	713462.2924	2310324.6075

ELTEST1

TYPE	STATION	NORTH	EAST
POT	10+00.00	713175.2280	2309942.1520
PC	11+64.10	713274.3495	2310072.9273
PT	12+21.66	713308.9570	2310118.9293
PC	12+79.45	713343.5334	2310165.2359
PT	12+81.52	713344.7677	2310166.8907
PC	17+01.77	713595.8575	2310503.8886
PT	19+65.82	713753.2702	2310715.8881
POT	21+13.29	713840.9869	2310834.4313
PC	23+13.46	713960.0524	2310995.3395
PRC	24+87.15	714073.5306	2311126.6105
PT	26+43.00	714157.1004	2311256.7065
PC	26+73.19	714167.5481	2311285.0311
PT	29+60.29	714263.5205	2311555.6124
POT	30+63.27	714296.7268	2311653.0918

LREV

TYPE	STATION	NORTH	EAST
POT	10+00.00	713175.2280	2309942.1520
POT	11+92.88	713291.7360	2310095.8660
PC	14+73.53	713459.5283	2310320.8359
PT	15+06.21	713479.0548	2310347.0343
PC	17+08.24	713599.7391	2310509.0643
PT	19+59.35	713749.4220	2310710.6876
PC	23+13.53	713960.0956	2310995.3979
PRC	24+87.07	714073.4787	2311126.5595
PT	26+42.89	714157.0273	2311256.6226
PC	26+74.75	714168.0535	2311286.5153
PT	29+61.82	714264.0147	2311557.0632
POT	30+63.27	714296.7268	2311653.0918

PERMANENT DRAINAGE EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	11+66.00	-45.00	713311.3627	2310047.2631
L	11+66.00	-53.00	713317.7383	2310042.4307
L	11+66.00	53.00	713233.2619	2310106.4599
L	11+66.00	45.00	713239.6374	2310101.6275
L	11+84.00	-45.00	713322.2356	2310061.6081
L	11+84.00	45.00	713250.5103	2310115.9725

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:

B4679_LS_CONTROL_110914.TXT

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S 27°17'31.6" E 16.49'

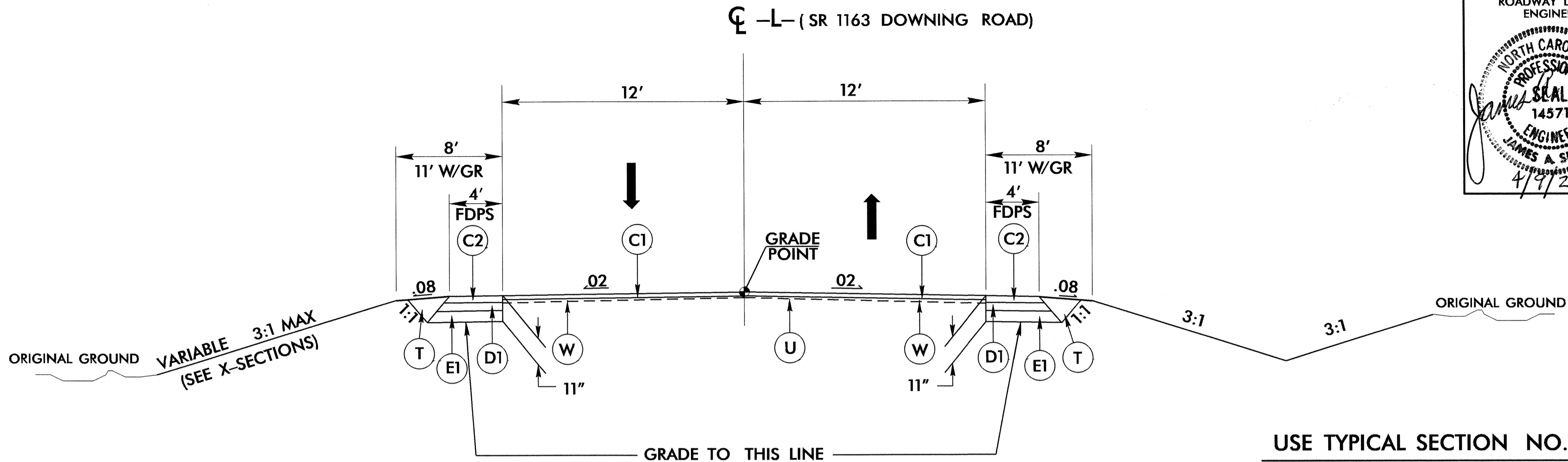
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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 TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. 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 5.5" IN DEPTH.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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

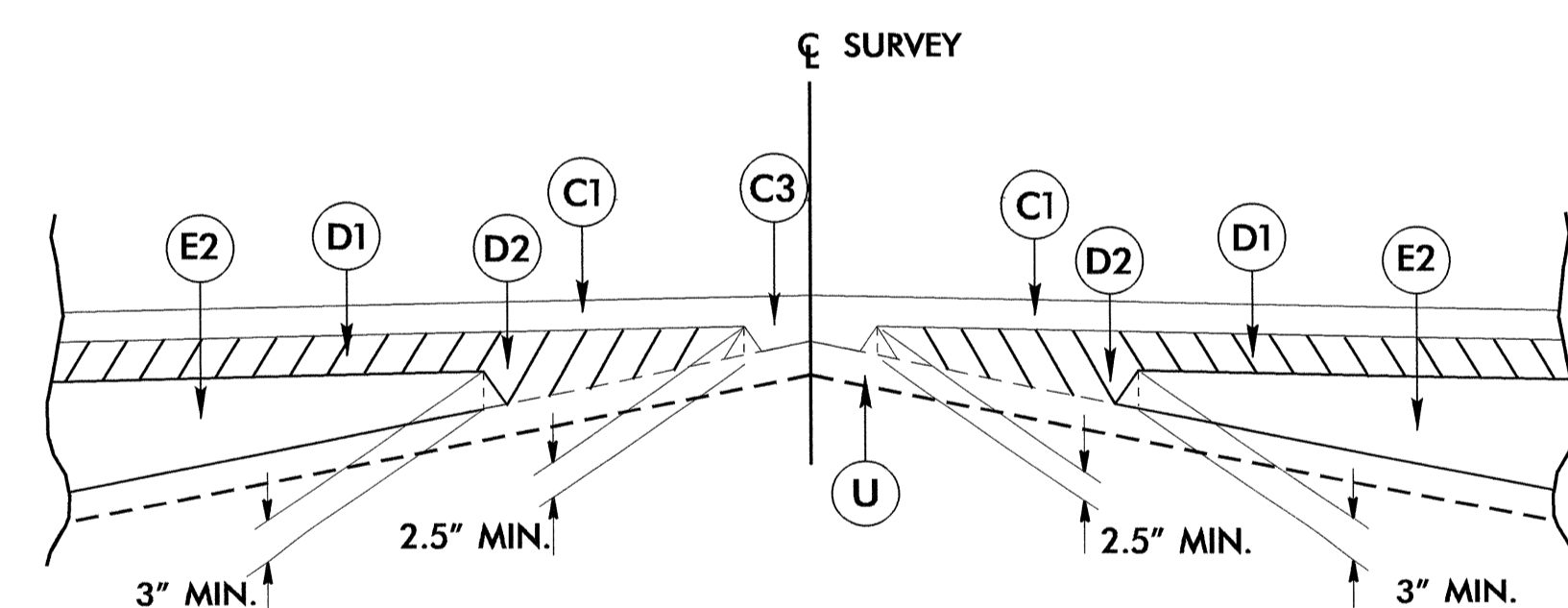


TYPICAL SECTION NO. 1

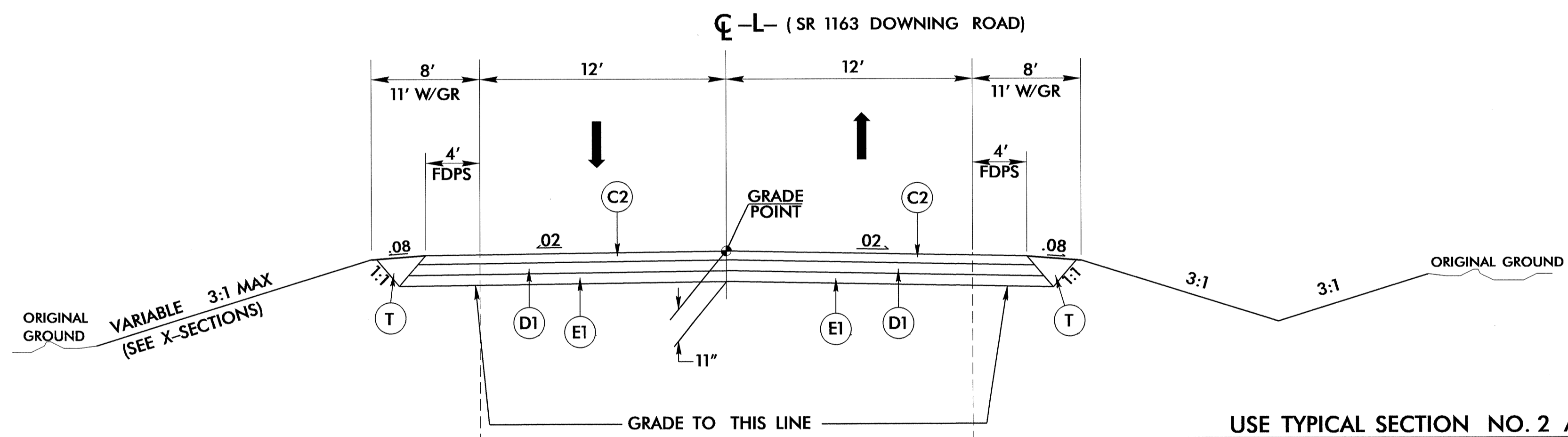
USE TYPICAL SECTION NO. 1 AS FOLLOWS:

- L- STA. 10+00.00 TO STA. 11+58.00
- L- STA. 13+48.00 TO STA. 15+86.00

NOTE: SEE PLAN SHEET FOR PAVED SHOULDER LIMITS AT GUARDRAIL LOCATIONS



Detail Showing Method of Wedging

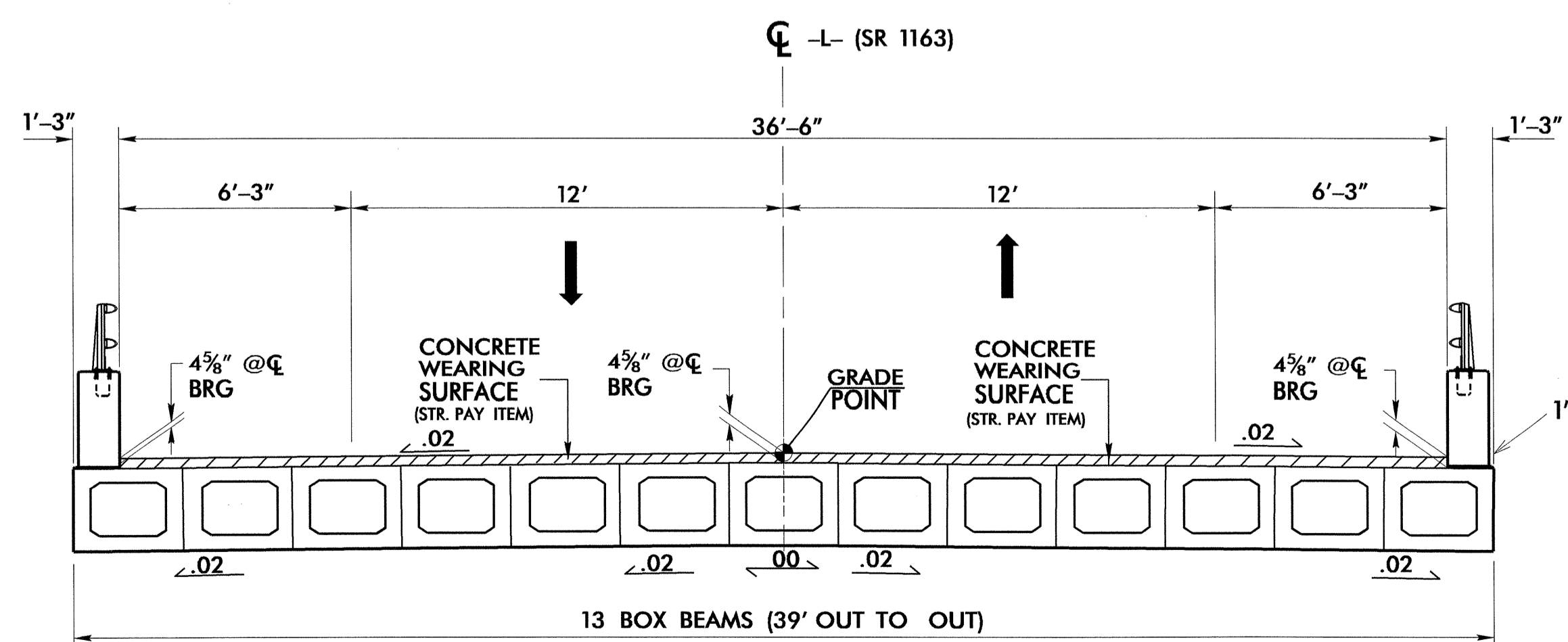


TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2 AS FOLLOWS:

- L- STA. 11+58.00 TO STA. 12+06.88 (BEGIN BRIDGE)
- L- STA. 12+99.13 (END BRIDGE) TO STA. 13+48.00

NOTE: SEE PLAN SHEET FOR PAVED SHOULDER LIMITS AT GUARDRAIL LOCATIONS



TYPICAL SECTION ON STRUCTURE
BEGIN BRIDGE -L- STA. 12+06.88 TO END BRIDGE -L- STA. 12+99.13



NOTE:
INSTALL SHOULDER BERM GUTTER (SBG) AS FOLLOWS.
-L- STA. 11+70.00 TO STA. 11+92.88 (BEGIN BRIDGE APP. SLAB) LT & RT
SEE ROADWAY STD. DWG. NO. 846.03

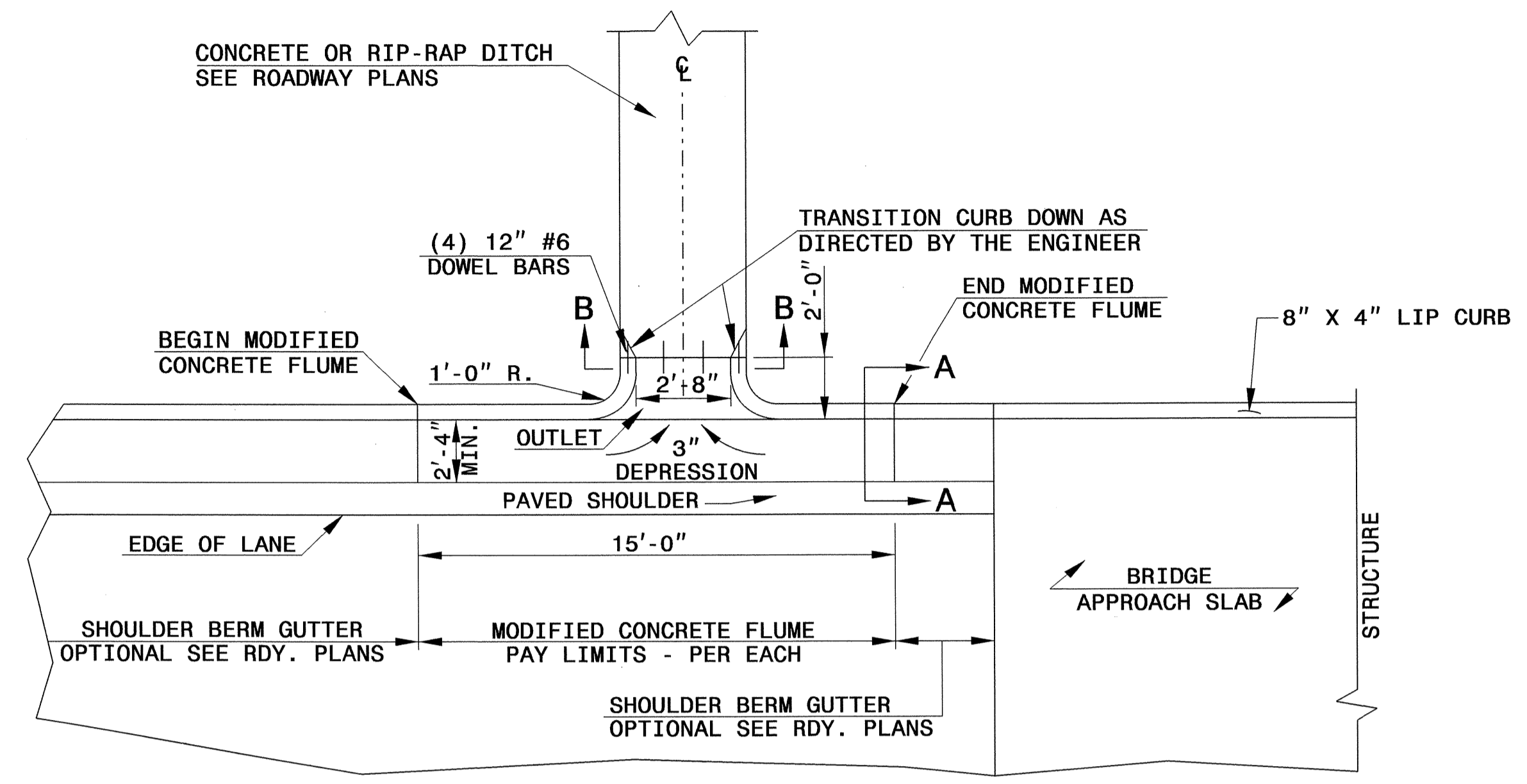
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

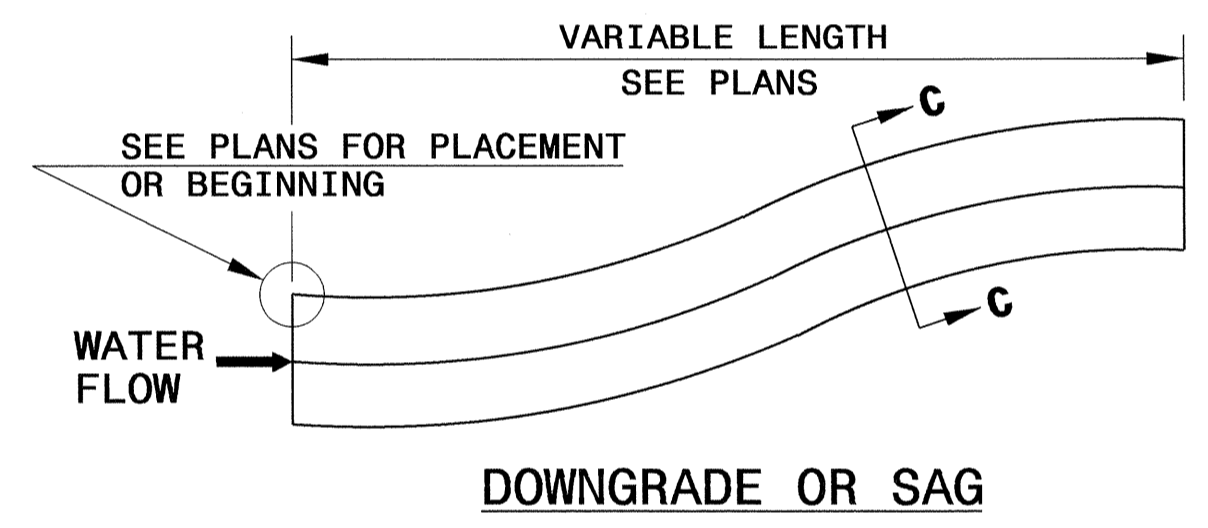
ENGLISH DETAIL DRAWING FOR
MODIFIED CONCRETE FLUME
WITH CONCRETE OR RIP-RAP DITCH

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

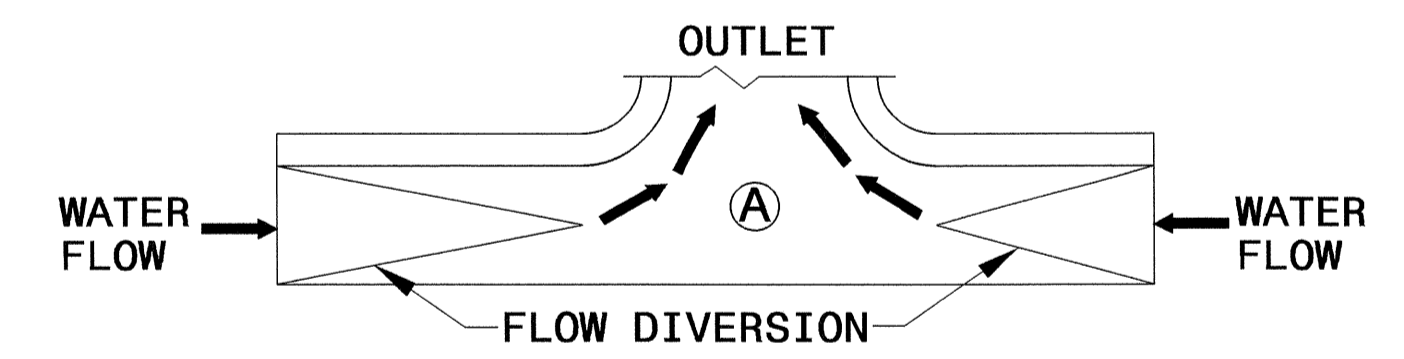
ENGLISH DETAIL DRAWING FOR
MODIFIED CONCRETE FLUME
WITH CONCRETE OR RIP-RAP DITCH



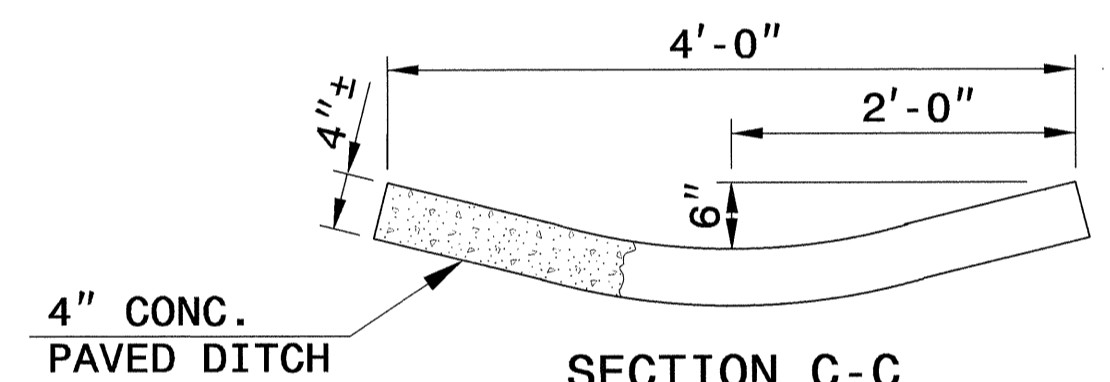
PLAN VIEW



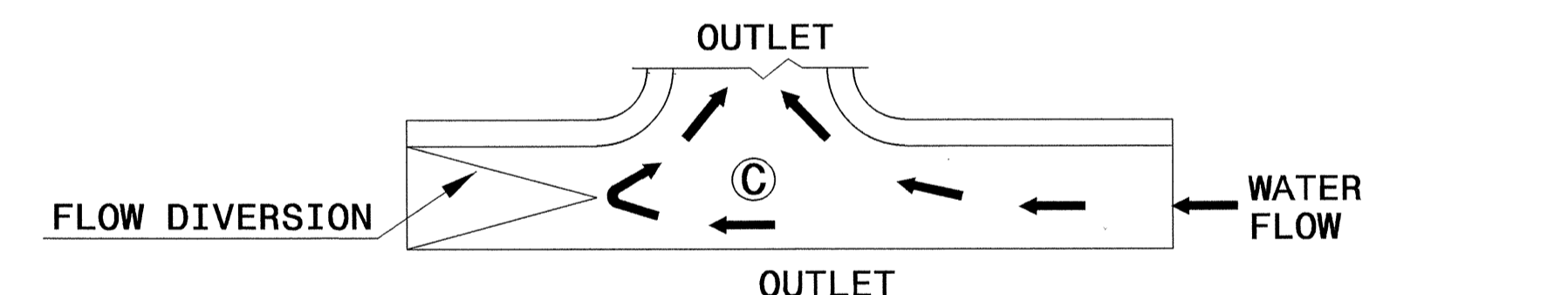
DOWNGRADE OR SAG



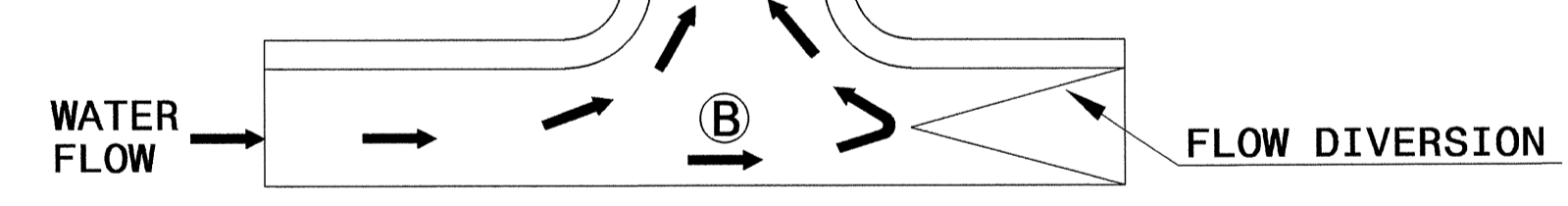
SAG



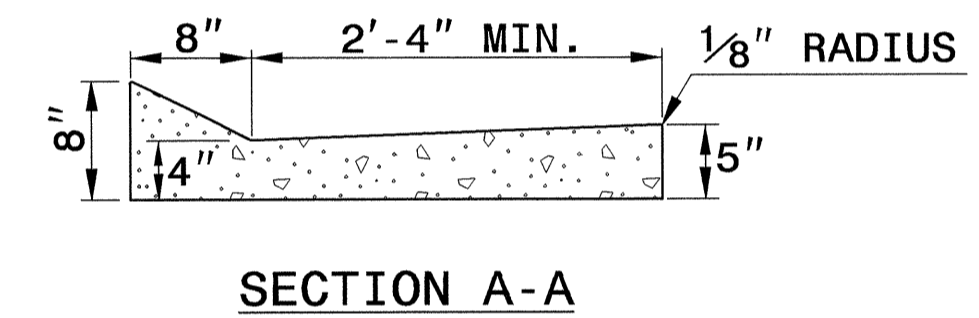
SECTION C-C



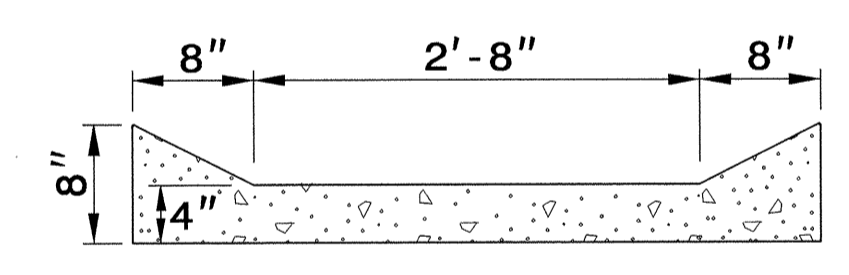
FLOW DIVERSION EXAMPLES



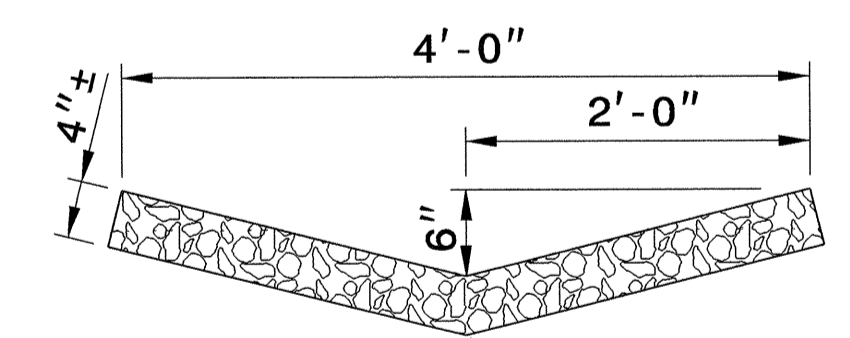
DOWN GRADE



SECTION A-A



SECTION B-B



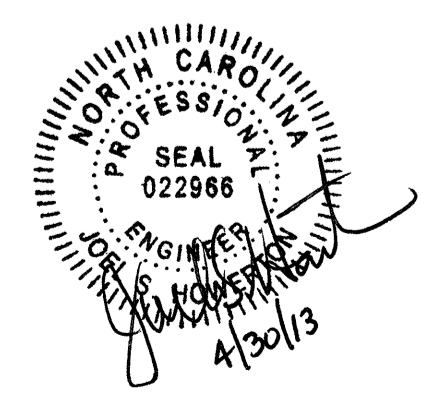
RIP-RAP LINED DITCH

NOTES:

- CONSTRUCT MODIFIED CONCRETE FLUME AND SHOULDER BERM GUTTER IN ACCORDANCE WITH THIS DETAIL.
- CONSTRUCT CONCRETE DITCH IN ACCORDANCE WITH STD. DWG. NO. 850.01.
- CONSTRUCT RIP RAP LINED DITCH IN ACCORDANCE WITH THIS DETAIL, IF CALLED FOR IN PLANS.
- CONCRETE OR RIP RAP LINED DITCH SHALL BE THE TYPE AND LENGTH SPECIFIED BY THE ROADWAY PLANS. THE DITCH SHALL TERMINATE AS SHOWN ON THE PLANS. IF NO TERMINATION IS INDICATED PLACE RIP-RAP AT THE END OF THE DITCH AS INDICATED BY STD. DWG. 876.02 FOR AN 18" PIPE. TRANSITIONS FROM THE DITCH TO TERMINATION SHALL BE AS DIRECTED BY THE ENGINEER.
- MODIFICATIONS SHALL BE AS DICTATED BY SITE CONDITIONS AND DIRECTED BY THE ENGINEER.

SHEET 1 OF 1
MODFLMDTCH

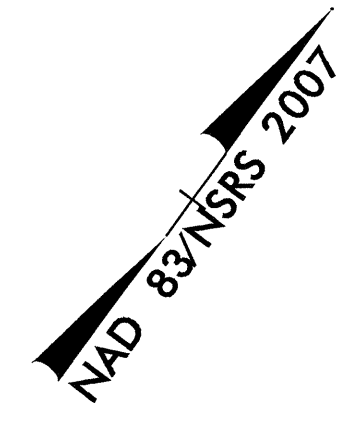
SHEET 1 OF 1
MODFLMDTCH



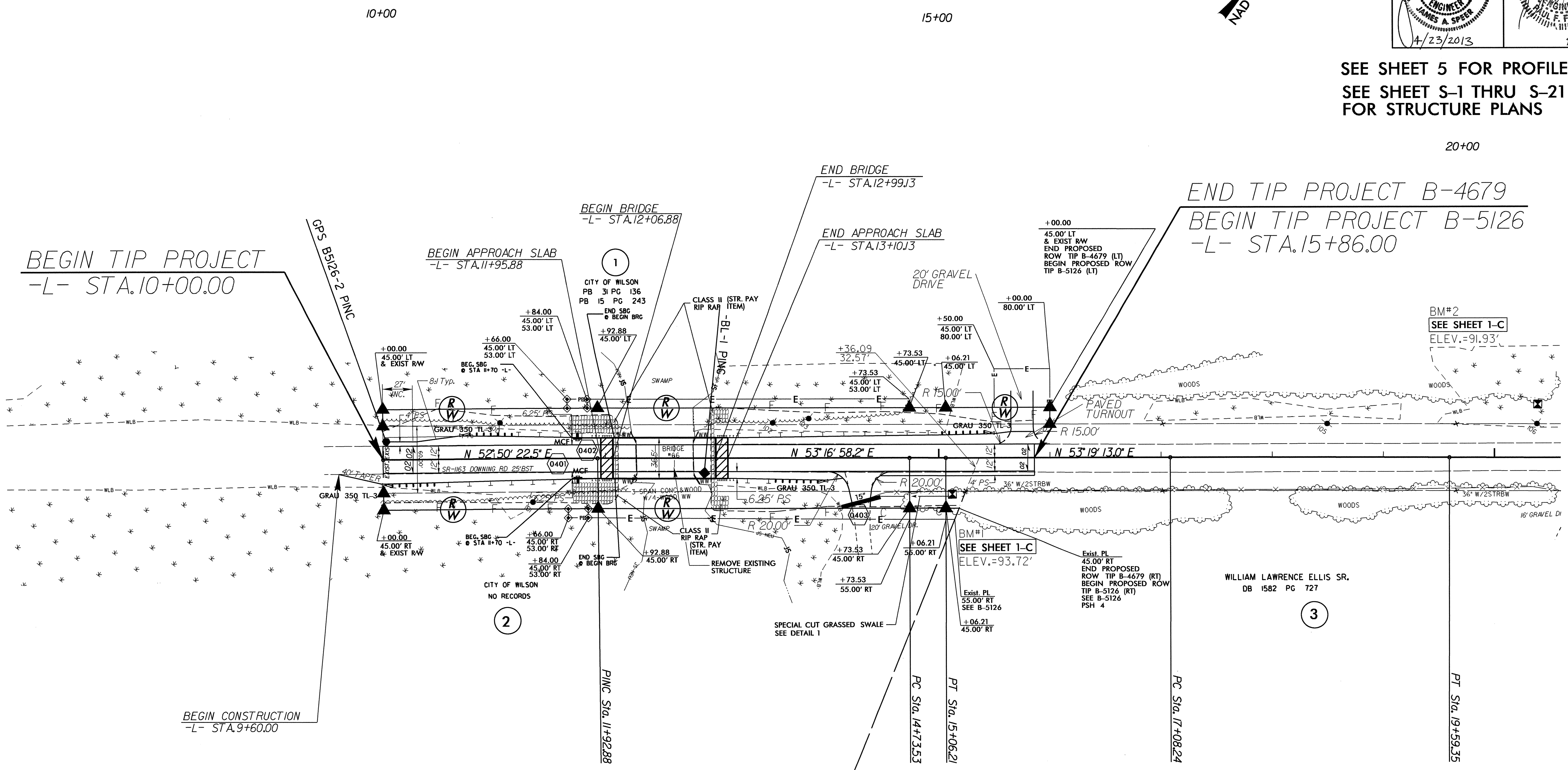
CONTRACT STANDARDS
AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: E.E. Ward DATE: Apr. 2002
MODIFIED BY: E.E. Ward DATE: July 2004
CHECKED BY: *[Signature]* DATE: 4/9/13
FILE SPEC.: *[Signature]* details\stand\modifiedflume.dgn



SEE SHEET 5 FOR PROFILE
SEE SHEET S-1 THRU S-21
FOR STRUCTURE PLANS

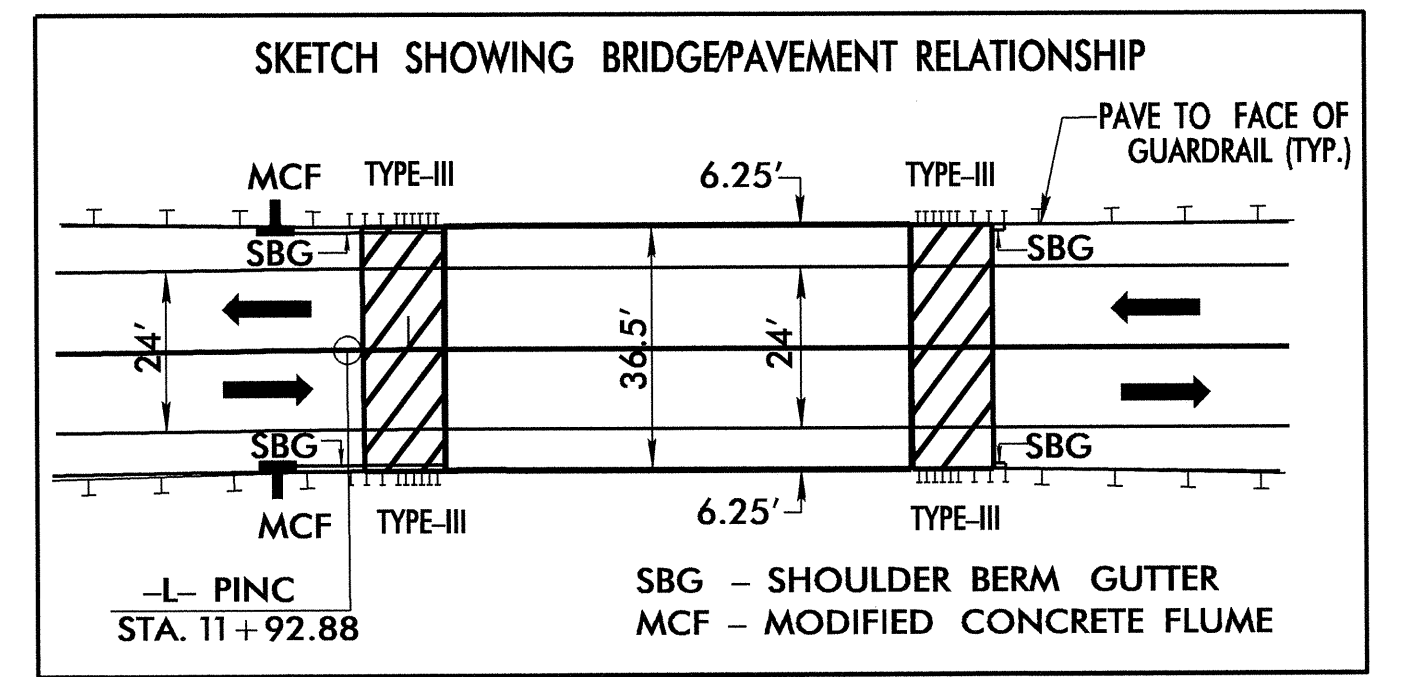
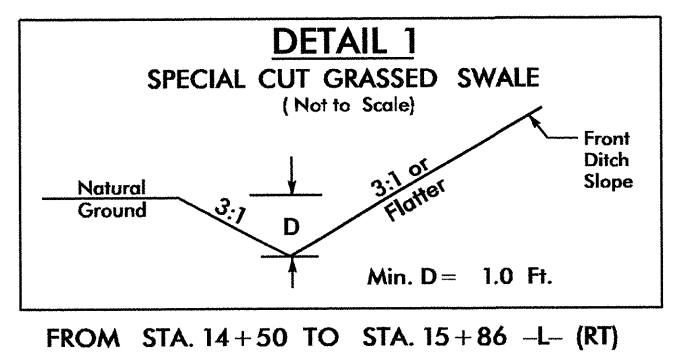


REVISIONS

BEGIN CONSTRUCTION
-L- STA. 9+60.00

-L-	
PI Sta 14+89.87 Δ = 0° 02' 14.8" (RT) D = 0° 06' 52.5" L = 32.67' T = 16.34' R = 50,000.00' SE = NC	PI Sta 18+33.80 Δ = 0° 10' 47.4" (RT) D = 0° 04' 17.8" L = 25.11' T = 125.56' R = 80,000.00' SE = NC

GRASS SWALE DATA	
DA = 2.54 acq, 0.21 acp	
SLOPE = 0.003 ft./ft.	
L REQ = 275 ft.	
L PRO = 136 ft.	
Q2 = 5.7 cfs	
V2 = 1.38 ft/s	
D2 = 1.17 ft.	
Q10 = 7.4 cfs	
V10 = 1.4 ft/s	
D10 = 1.30 ft.	
STA. 14+50 -L-	



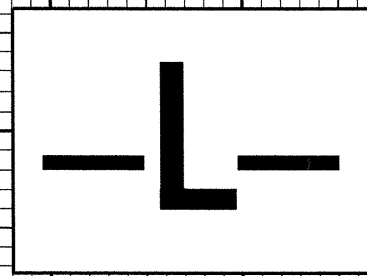
8/17/99

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BM*IRR SPIKE IN BASE OF 20" PINE
-L- STA. 15+12.02
32.60' RT ELEV. = 93.72'

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE = 18,700 CFS
 DESIGN FREQUENCY = 50 YRS
 DESIGN HW ELEVATION = 98.2' FT
 BASE DISCHARGE = 22,100 CFS
 BASE FREQUENCY = 100 YRS
 BASE HW ELEVATION = 99.5' FT
 OVERTOPPING DISCHARGE = 5,500 CFS
 OVERTOPPING FREQUENCY = <10 YRS
 OVERTOPPING ELEVATION = 94.4' FT
 DATE OF SURVEY = 09-20-2011
 W.S. ELEVATION AT DATE OF SURVEY = 90' +/- FT



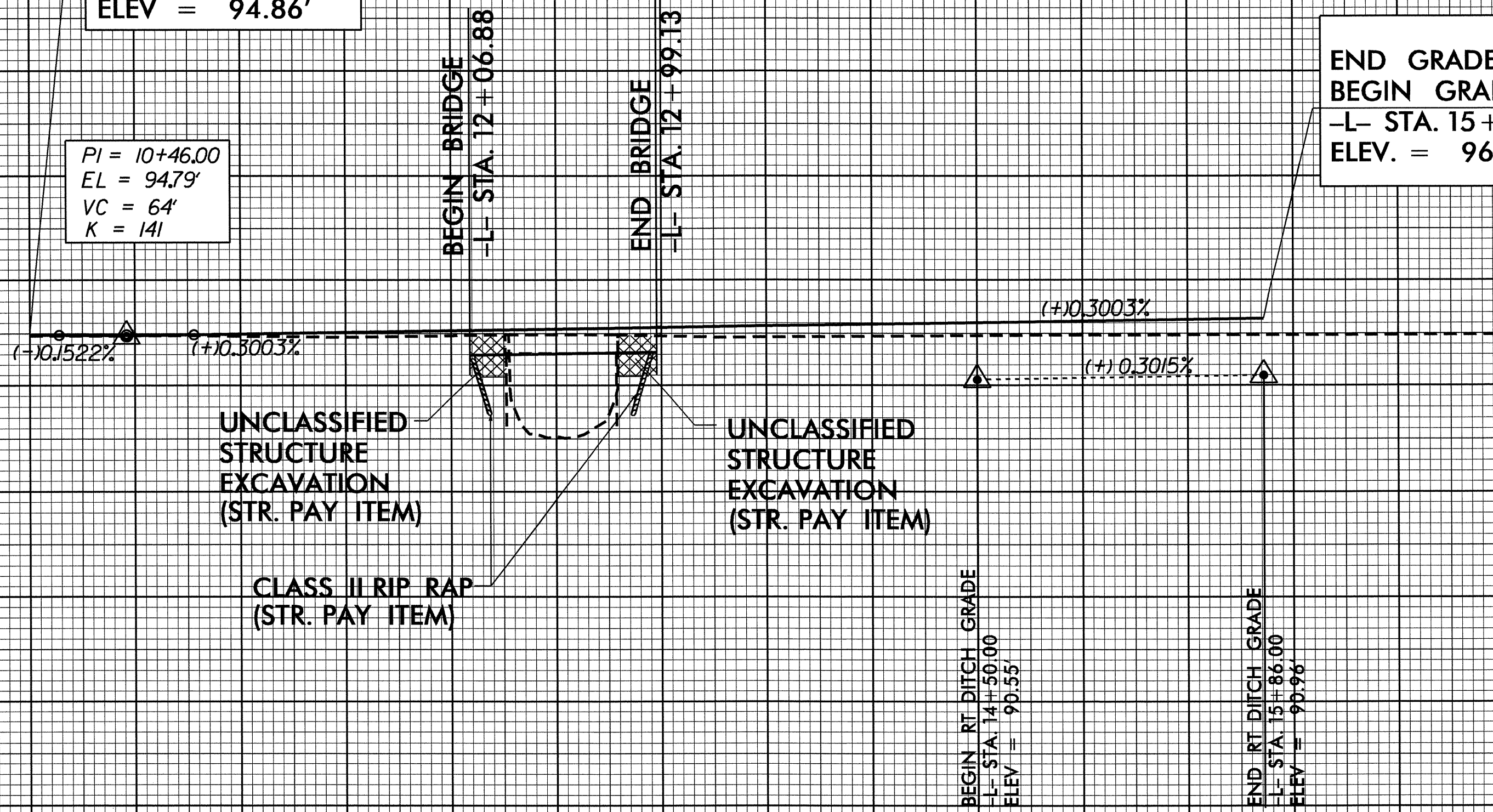
SEE SHEET 4 FOR PLAN VIEW

BRIDGE C STA. 12+53.00 -L-
ELEV. = 95.41'
SKEW = 90°
PROPOSED 1 @ 92.25'
33" PRESTRESSED CONCRETE
BOX BEAM

BEGIN GRADE
-L- STA. 10+00.00
ELEV = 94.86'

PI = 10+46.00
EL = 94.79'
VC = 64'
K = 141

END GRADE PROJECT B-4679
BEGIN GRADE PROJECT B-5126
-L- STA. 15+86.00
ELEV. = 96.41'



DITCH LEGEND
RIGHT DITCH -----