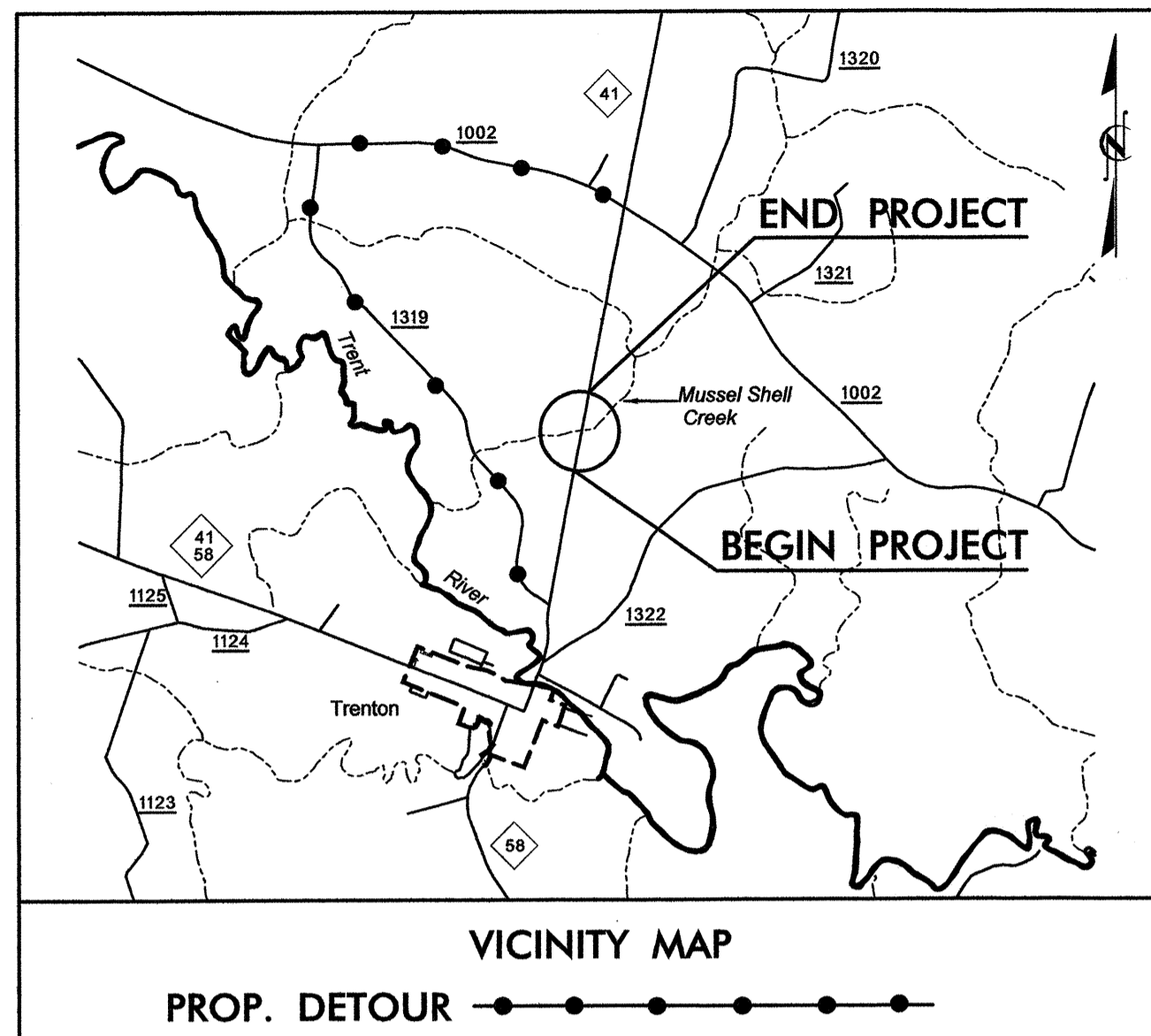


05/08/99

TIP PROJECT: B-4168

CONTRACT: C201771

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



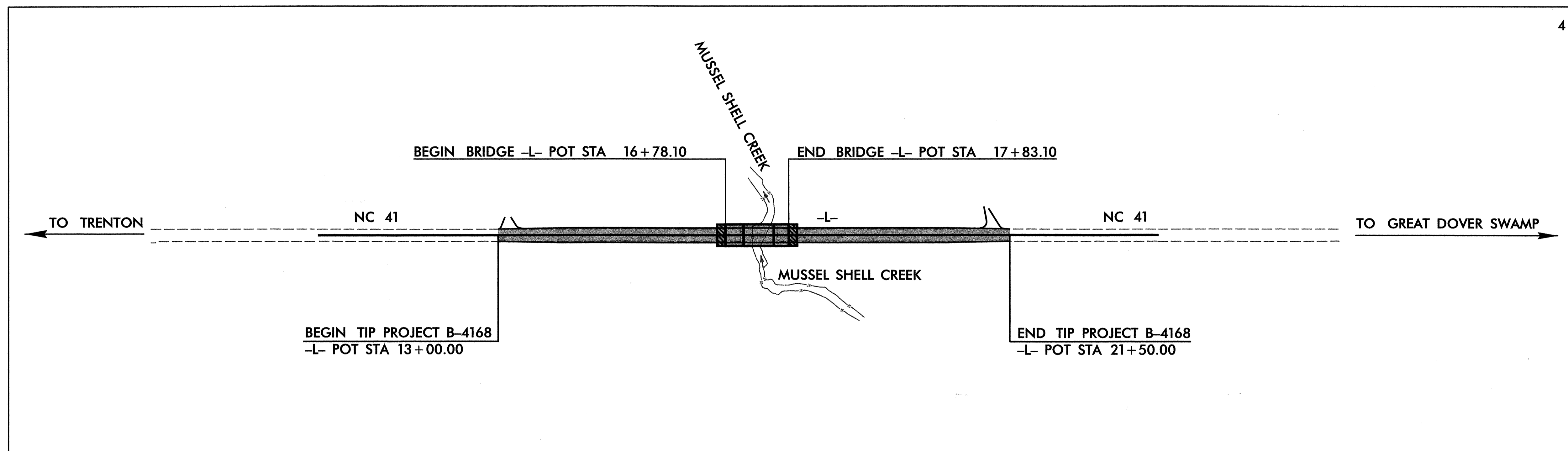
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

JONES COUNTY

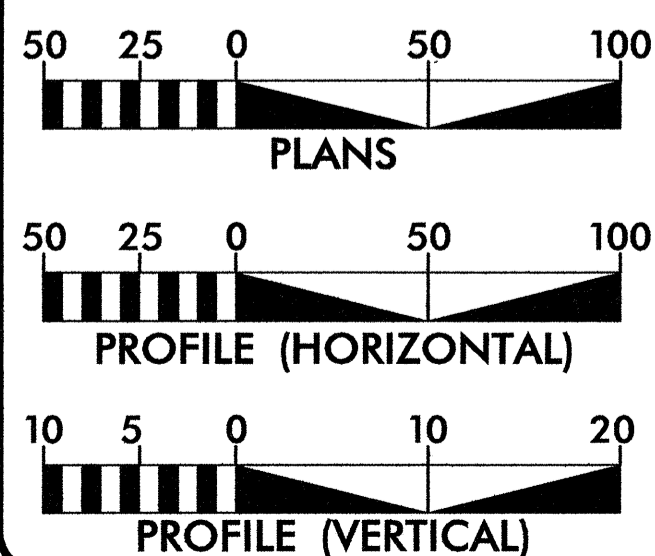
LOCATION: BRIDGE NO. 13 OVER MUSSEL SHELL CREEK
ON NC 41

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4168	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33516.1.1	BRSTP-41(23)	PE	
33516.2.1	BRSTP-41(23)	R/W & UTIL	
33516.3.1	BRSTP-41(23)	CONST	



GRAPHIC SCALES



DESIGN DATA

ADT 2008 = 2500
ADT 2028 = 3900
DHV = 11 %
D = 55 %
T = 8 % *
V = 60 MPH
FUNC CLASS = COLLECTOR
* TTST 3% + DUAL 5%

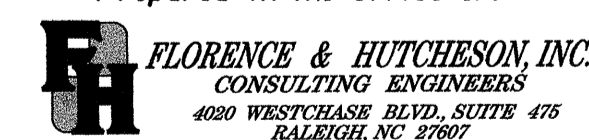
PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4168 = 0.141 MILES
LENGTH STRUCTURE TIP PROJECT B-4168 = 0.020 MILES
TOTAL LENGTH TIP PROJECT B-4168 = 0.161 MILES

NCDOT CONTACT:

CATHY S. HOUSER, PE
PROJECT ENGINEER

Prepared in the Office of:



FOR THE NORTH CAROLINA DEPT. OF TRANSPORTATION

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: CLAUDETTE M.K. ROQUE, PE
PROJECT ENGINEER
JUNE 24, 2005

LETTING DATE: HENRY W. BARE
PROJECT DESIGN ENGINEER
FEBRUARY 19, 2008

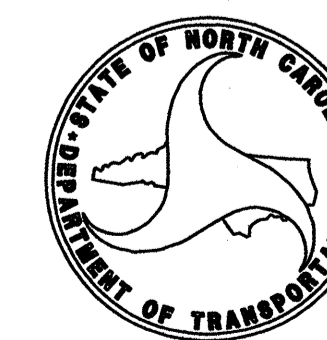
HYDRAULICS ENGINEER

SIGNATURE: Roger S. Weador P.E. 11/19/07

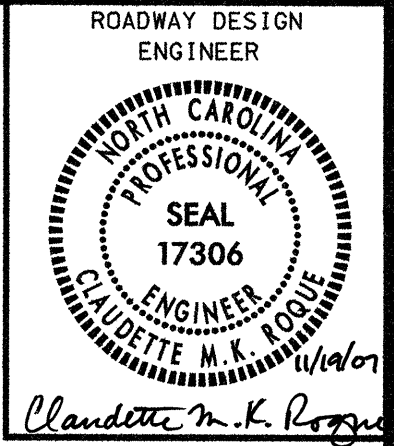
ROADWAY DESIGN ENGINEER

SIGNATURE: Claudette M.K. Roque P.E. 11/19/07

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**



Art McMillan
STATE HIGHWAY DESIGN ENGINEER P.E.



EFF. 07-18-06
REV. 01-02-07

INDEX OF SHEETS	
SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS GENERAL NOTES LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL DATA
2	PAVEMENT SCHEDULE TYPICAL SECTIONS TYPICAL DETAILS
2-A	DETAIL FOR ANCHORAGE FOR FRAMES
3	SUMMARY OF QUANTITIES
3-A	DRAINAGE SUMMARY
3-B	GUARDRAIL SUMMARY SUMMARY OF EARTHWORK SUMMARY OF PAVEMENT REMOVAL
4	PLAN & PROFILE
TCP-1 THRU TCP-3	TRAFFIC CONTROL PLANS
PM-1	PAVEMENT MARKING PLANS
EC-1 THRU EC-4	EROSION CONTROL PLANS
RF-1	REFORESTATION PLANS
UC-1 THRU UC-3	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-2	UTILITY BY OTHERS (CONFLICT) PLANS
X-1	CROSS-SECTION SUMMARY
X-2 THRU X-4	CROSS-SECTIONS
S-1 THRU S-23	STRUCTURE PLANS

GENERAL NOTES:

2006 SPECIFICATIONS
EFFECTIVE: 07-18-06
REVISED: 07-18-06

**GRADE LINE:
GRADING AND SURFACING:**

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

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

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.

UNDERDRAINS:

UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL:

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

TEMPORARY SHORING:

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

SUBSURFACE PLANS:

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

END BENTS:

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

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE EMBARO & JONES COUNTY

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

RIGHT-OF-WAY MARKERS:

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

2006 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 July 18, 2006 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
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation - Method 'A'
310.10	Driveway Pipe Construction
DIVISION 4 - MAJOR STRUCTURES	
422.10	Reinforced Bridge Approach Fills
DIVISION 8 - INCIDENTALS	
815.03	Pipe Underdrain and Blind Drain
816.01	Concrete Pads - for Shoulder Drain Installation
816.04	Markers for Drainage Structure and Concrete Pad
840.00	Concrete Base Pad for Drainage Structures
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
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
876.04	Drainage Ditches with Class 'B' Rip Rap













Note: Not to Scale

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







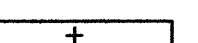




STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

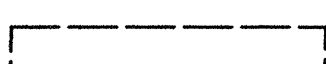







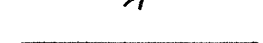
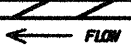
BOUNDARIES AND PROPERTY:

State Line	_____
County Line	_____
Township Line	_____
City Line	_____
Reservation Line	_____
Property Line	_____
Existing Iron Pin	_____ 
Property Corner	_____ 
Property Monument	_____ 
Parcel/Sequence Number	_____ 
Existing Fence Line	_____ 
Proposed Woven Wire Fence	_____ 
Proposed Chain Link Fence	_____ 
Proposed Barbed Wire Fence	_____ 
Existing Wetland Boundary	_____ 
Proposed Wetland Boundary	_____ 
Existing Endangered Animal Boundary	_____ 
Existing Endangered Plant Boundary	_____ 

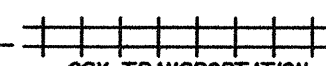

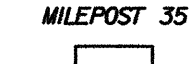
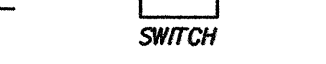
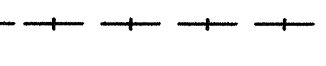
BUILDINGS AND OTHER CULTURE:

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














HYDROLOGY:

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














RAILROADS:

Standard Gauge	_____ 
RR Signal Milepost	_____ 
Switch	_____ 
RR Abandoned	_____ 
RR Dismantled	_____ 







RIGHT OF WAY:

Baseline Control Point	_____ 
Existing Right of Way Marker	_____ 
Existing Right of Way Line	_____ 
Proposed Right of Way Line	_____ 
Proposed Right of Way Line with Iron Pin and Cap Marker	_____ 
Proposed Right of Way Line with Concrete or Granite Marker	_____ 
Existing Control of Access	_____ 
Proposed Control of Access	_____ 
Existing Easement Line	_____ 
Proposed Temporary Construction Easement	_____ 
Proposed Temporary Drainage Easement	_____ 
Proposed Permanent Drainage Easement	_____ 
Proposed Permanent Utility Easement	_____ 




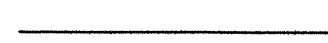





ROADS AND RELATED FEATURES:

Existing Edge of Pavement	_____ 
Existing Curb	_____ 
Proposed Slope Stakes Cut	_____ 
Proposed Slope Stakes Fill	_____ 
Proposed Wheel Chair Ramp	_____ 
Proposed Wheel Chair Ramp Curb Cut	_____ 
Curb Cut for Future Wheel Chair Ramp	_____ 
Existing Metal Guardrail	_____ 
Proposed Guardrail	_____ 
Existing Cable Guiderail	_____ 
Proposed Cable Guiderail	_____ 
Equality Symbol	_____ 
Pavement Removal	_____ 












VEGETATION:

Single Tree	_____ 
Single Shrub	_____ 
Hedge	_____ 
Woods Line	_____ 
Orchard	_____ 
Vineyard	_____ 










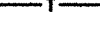
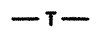
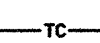

EXISTING STRUCTURES:

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








UTILITIES:

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



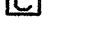





TELEPHONE:

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




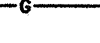
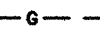
WATER:

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




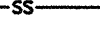

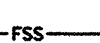
TV:

TV Satellite Dish	_____ 
TV Pedestal	_____ 
TV Tower	_____ 
U/G TV Cable Hand Hole	_____ 
Recorded U/G TV Cable	_____ 
Designated U/G TV Cable (S.U.E.*)	_____ 
Recorded U/G Fiber Optic Cable	_____ 
Designated U/G Fiber Optic Cable (S.U.E.*)	_____ 



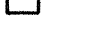




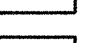


GAS:

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

SANITARY SEWER:

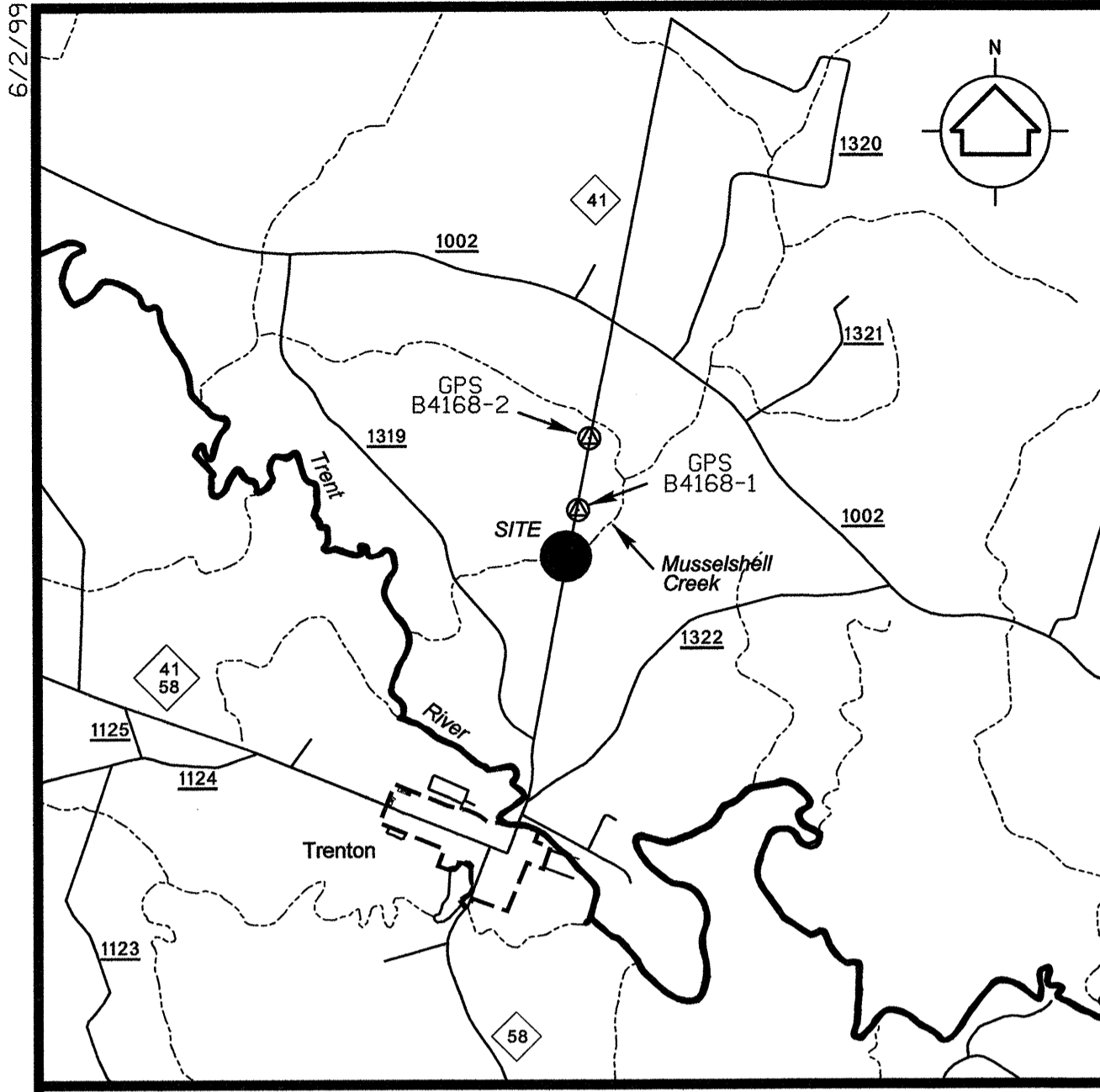
Sanitary Sewer Manhole	_____ 
Sanitary Sewer Cleanout	_____ 
U/G Sanitary Sewer Line	_____ 
Above Ground Sanitary Sewer	_____ 
Recorded SS Forced Main Line	_____ 
Designated SS Forced Main Line (S.U.E.*)	_____ 

MISCELLANEOUS:

Utility Pole	_____ 
Utility Pole with Base	_____ 
Utility Located Object	_____ 
Utility Traffic Signal Box	_____ 
Utility Unknown U/G Line	_____ 
U/G Tank; Water, Gas, Oil	_____ 
AG Tank; Water, Gas, Oil	_____ 
U/G Test Hole (S.U.E.*)	_____ 
Abandoned According to Utility Records	_____ 
End of Information	_____ 

3/15/06
FILENAME: ... \Roadway\Pro\1b4168_rdy_tsh.dgn
DATE: 11/07/2007

SURVEY CONTROL SHEET B-4168



VICINITY MAP
(NOT TO SCALE)

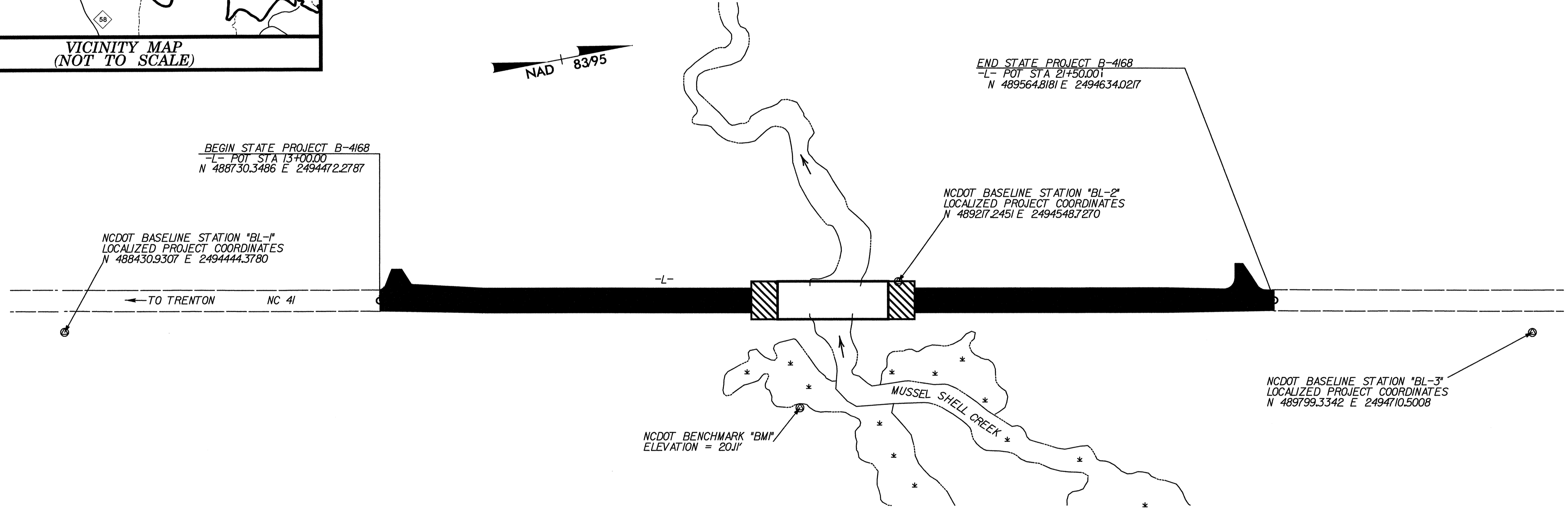
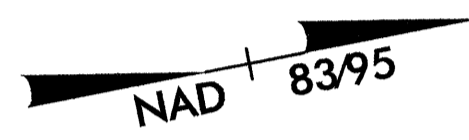
CONTROL DATA						
BL	POINT	DESC.	NORTH	EAST	ELEVATION	OFFSET
1	BL-1		488430.9307	2494444.3780	27.09	10+00.74 29.58 RT
2	BL-2		489217.2451	2494548.7270	20.15	17+92.55 17.60 LT
3	BL-3		489799.3342	2494710.5008	26.96	23+94.78 30.46 RT

BENCHMARK DATA

.....

BM1 ELEVATION = 20.11
 N 489103 E 2494648
 L STATION 16+99 101 RIGHT
 RR SPIKE SET IN 24' MAPLE

.....



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B4168-1" WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 490258.406(FT) EASTING: 2494796.605(FT) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99988125 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4168-1" TO -L- STATION 13+00.00 IS S 11°58'59.0" W 1562.0969(FT) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

NOTES:

THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT

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 USER SERVICE (OPUS)

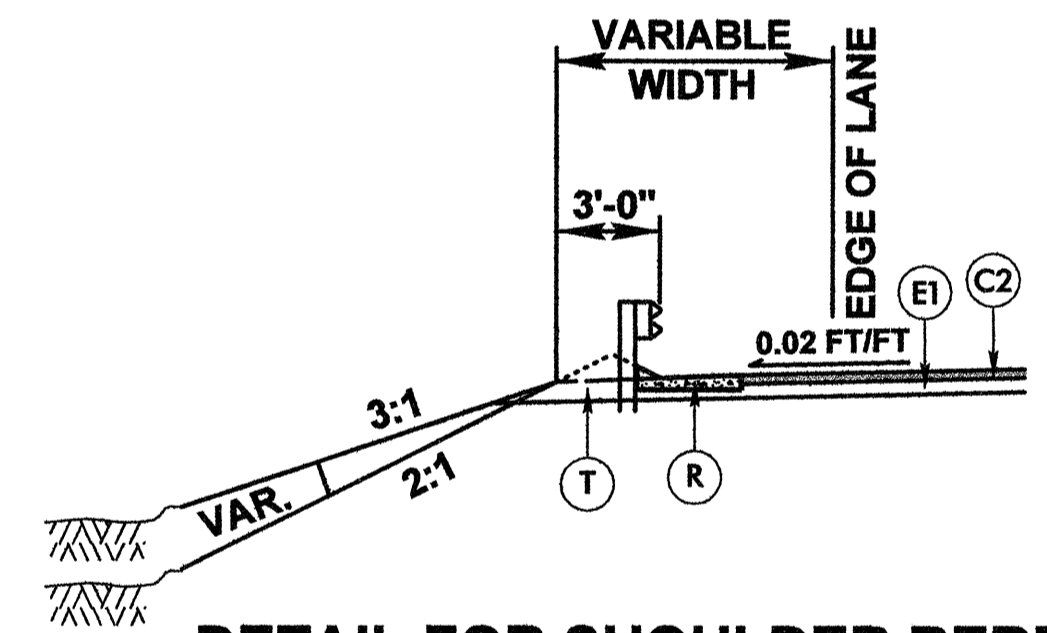
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 DATE: 09/18/2007

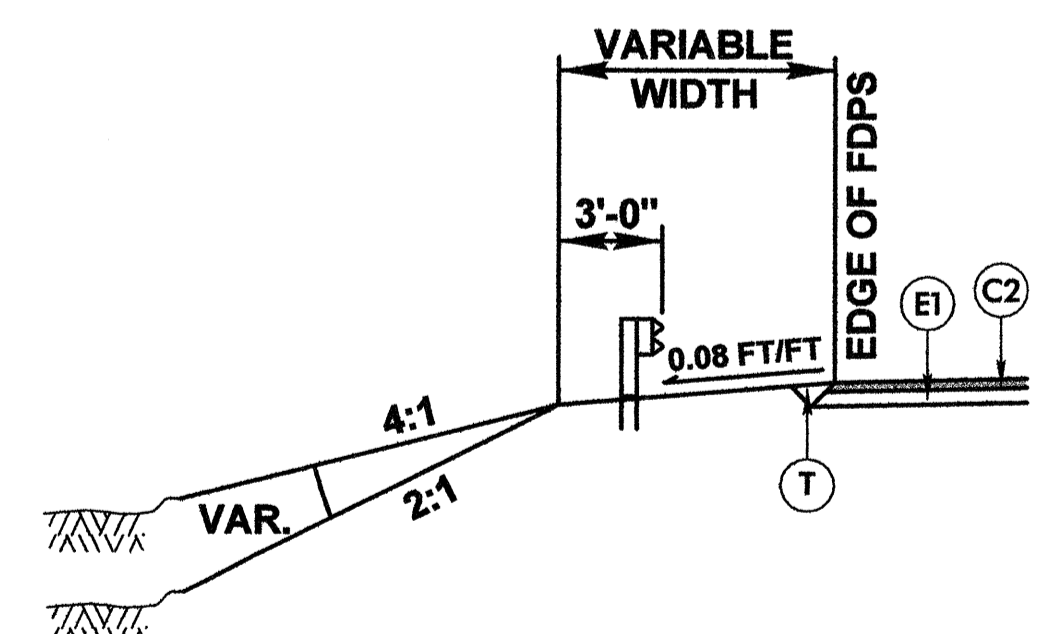
6/2/99

PAVEMENT SCHEDULE	
A1	VARIABLE DEPTH PORTLAND CEMENT CONCRETE PAVEMENT.
C1	PROP. APPROX. 1 1/2" 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.
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.
R	SHOULDER BERM GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL ON THIS SHEET)

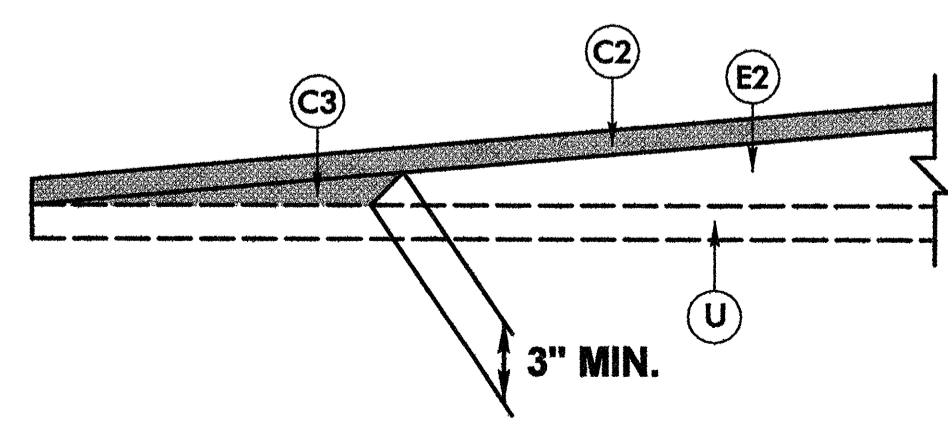
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



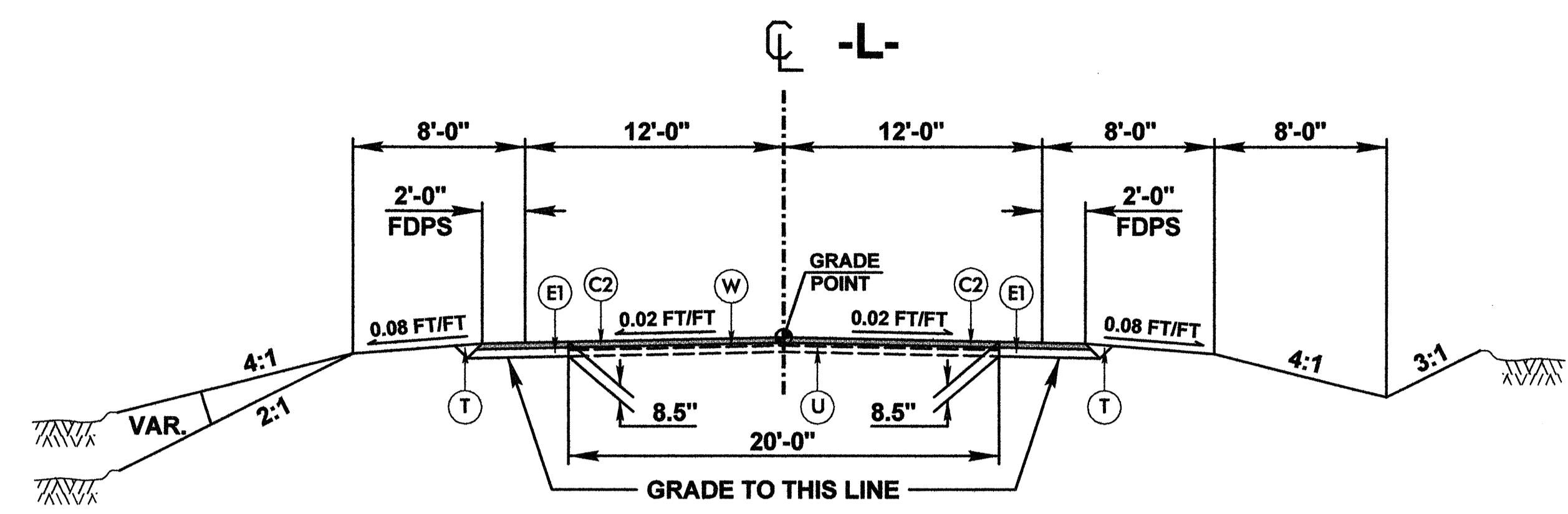
DETAIL FOR SHOULDER BERM GUTTER
USE IN CONJUNCTION WITH TS NO. 2
-L- STA 17+97.10 TO STA 18+18.10 (LT & RT)



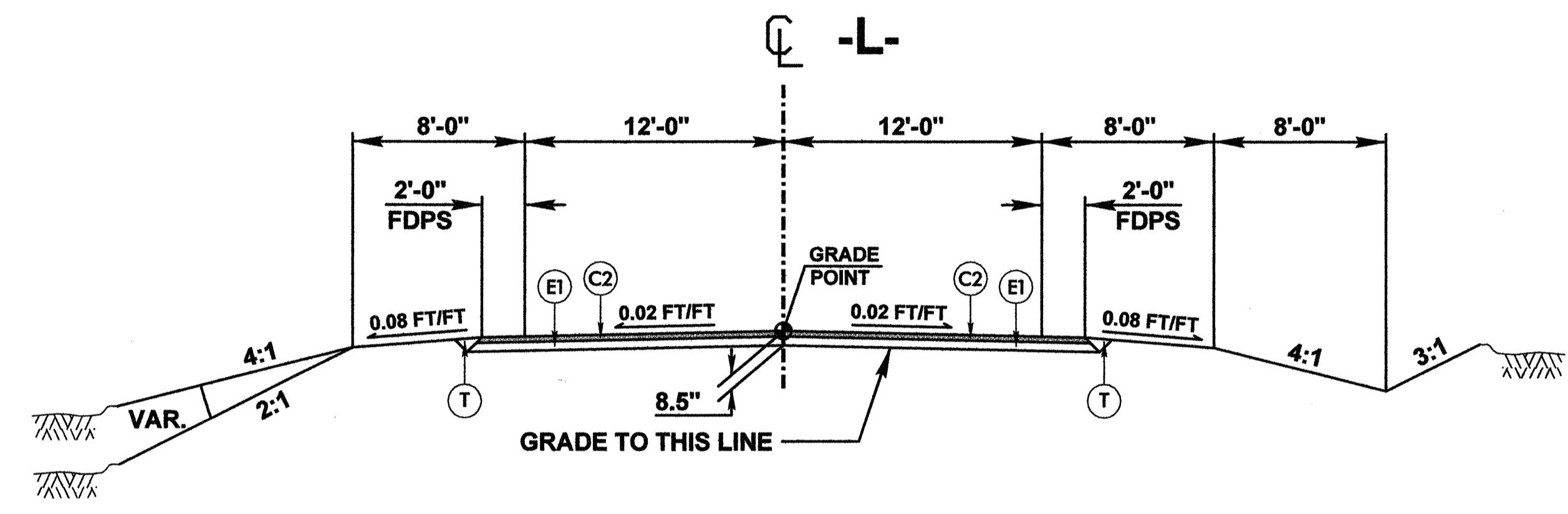
DETAIL FOR PLACEMENT OF GUARDRAIL
USE IN CONJUNCTION WITH TS NOS. 1 & 2



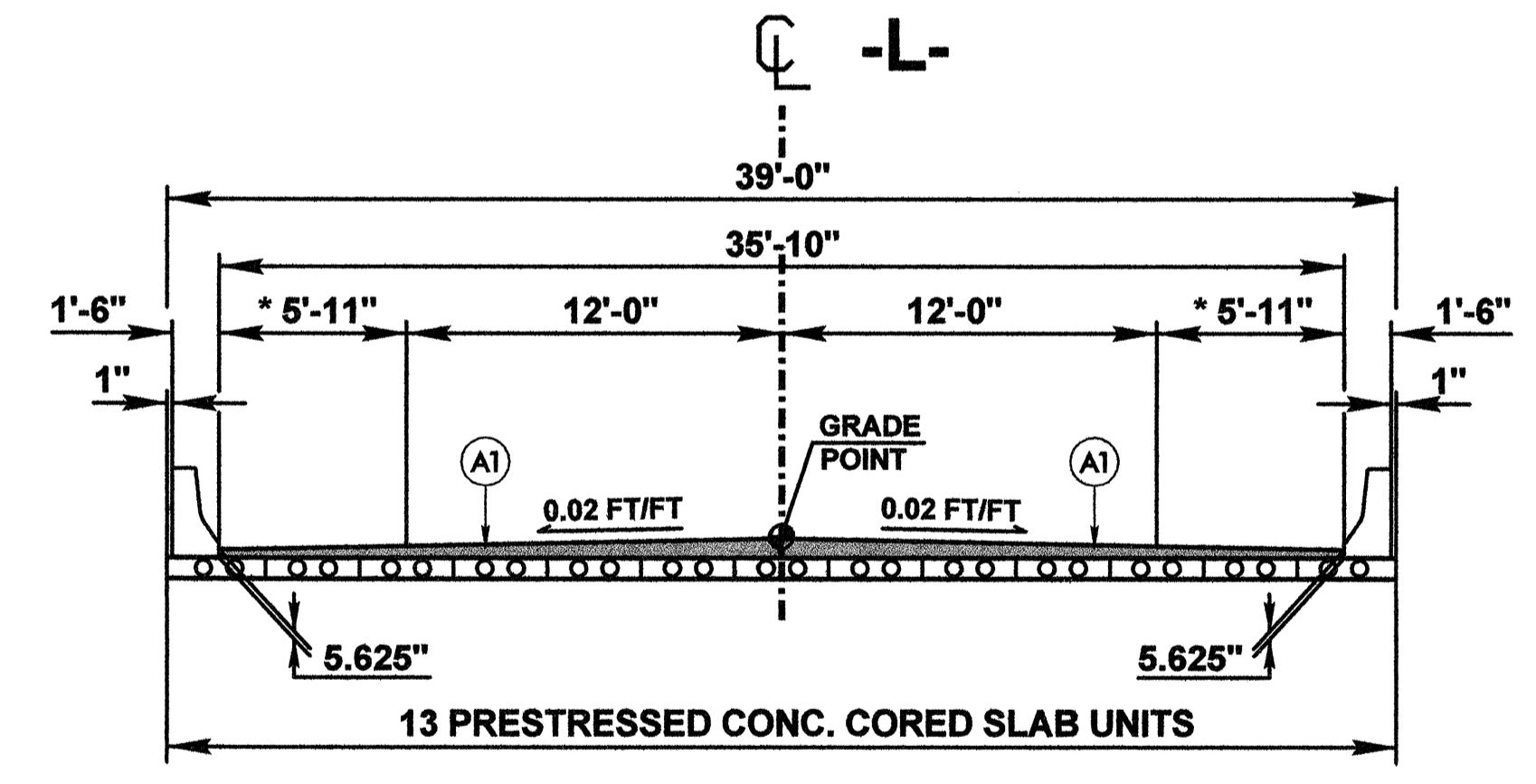
WEDGING DETAIL FOR RESURFACING
USE IN CONJUNCTION WITH TS NO. 1



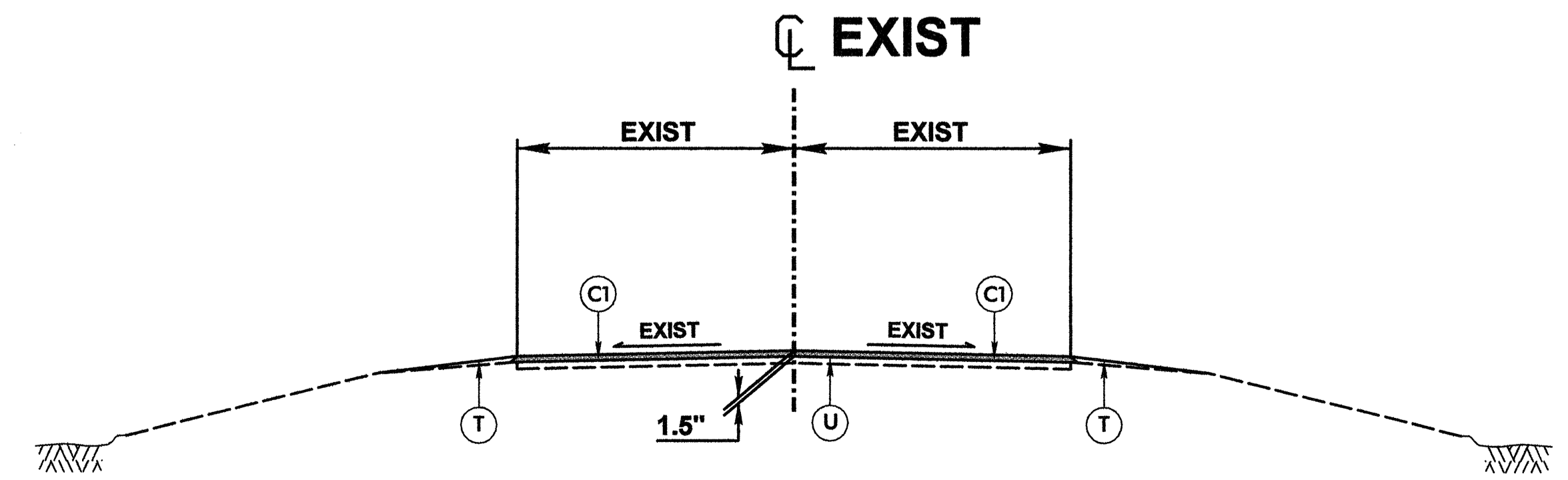
TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2



BRIDGE TYPICAL
FOR BRIDGE #13 OVER MUSSEL SHELL CREEK



DETOUR TYPICAL
RESURFACING ONLY

PROJECT REFERENCE NO. B-4168	SHEET NO. 2
ROADWAY DESIGN ENGINEER SEAL 17306 CLAUDETTE M.K. RUSSELL 11/19/07	PAVEMENT DESIGN ENGINEER SEAL 22896 CLARK S. MORRISON 11/20/07
PLANS PREPARED BY: FLORENCE & HUTCHESON, INC. CONSULTING ENGINEERS 4020 WESTCHASE BLVD., SUITE 475 RALEIGH, NC 27607	

USE TYPICAL SECTION NO. 1 FOR:
-L- STA 13+00 TO STA 16+00
-L- STA 18+50 TO STA 21+50

USE TYPICAL SECTION NO. 2 FOR:
-L- STA 16+00 TO STA 16+78.10 (BEGIN BRIDGE)
-L- STA 17+83.10 (END BRIDGE) TO STA 18+50

USE BRIDGE TYPICAL FOR:
-L- STA 16+78.10 TO STA 17+83.10
* NOTE: EXTRA BRIDGE WIDTH REQUIRED DUE TO SPREAD

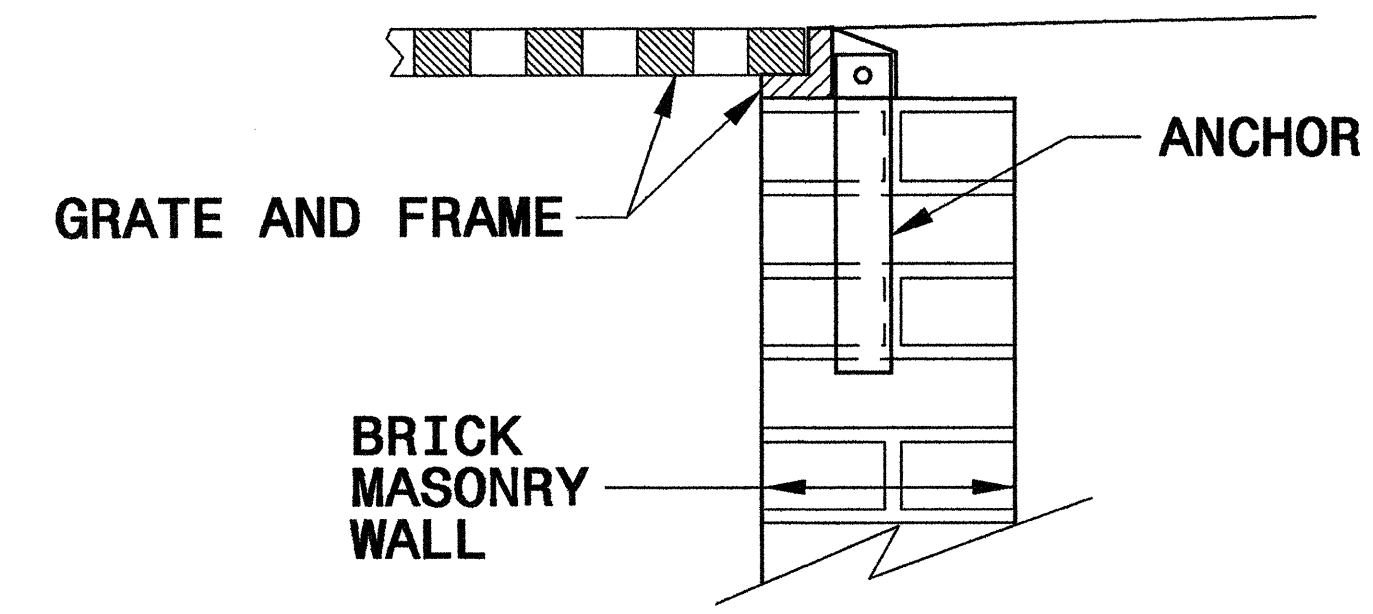
USE DETOUR TYPICAL FOR:
SR 1319 AND SR 1002

FILENAME: ... \Roadway\Pro\B4168_r.dwg - tjp.dgn
DATE: 11/14/2007

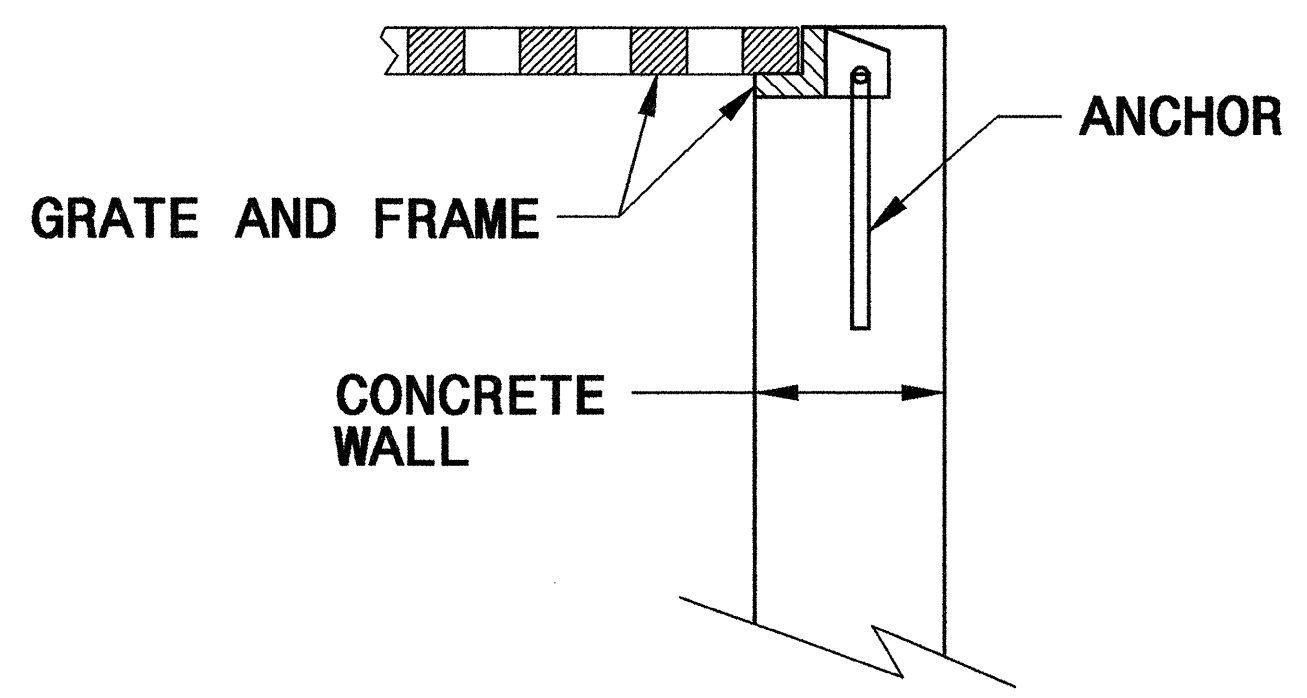
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE

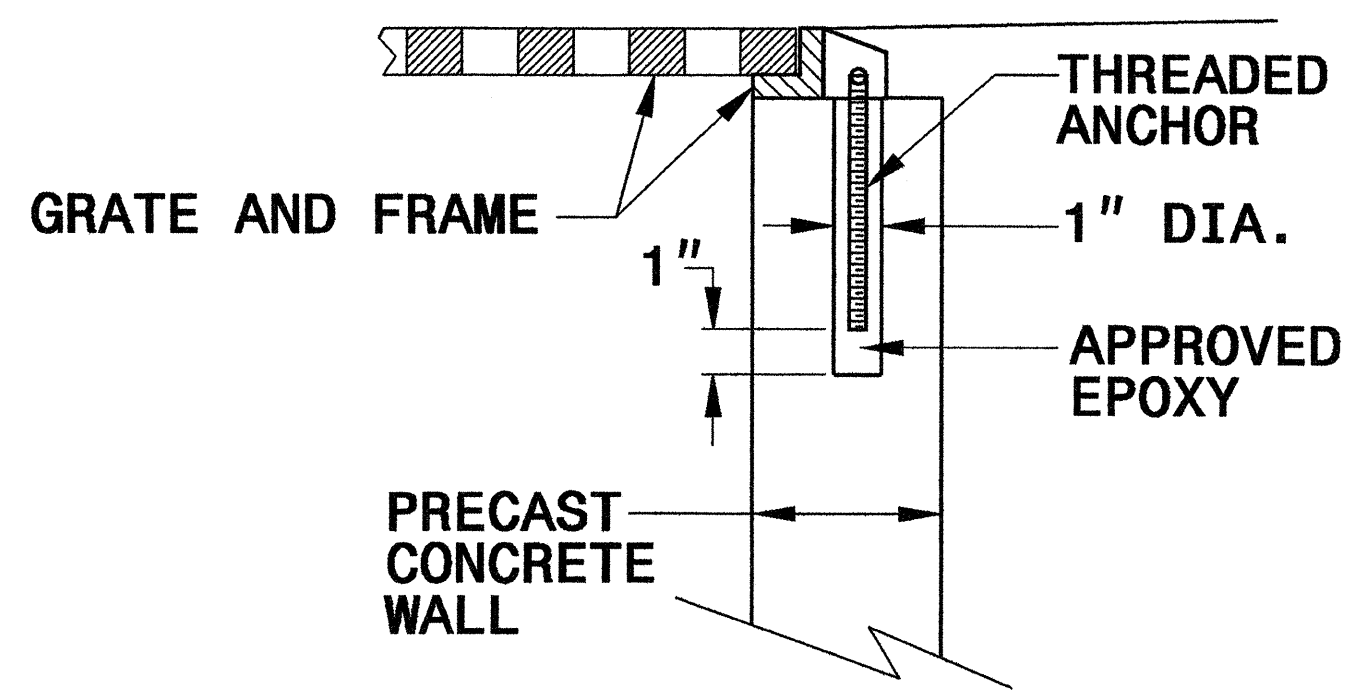
SHEET 1 OF 1
840D25



BRICK MASONRY CONSTRUCTION



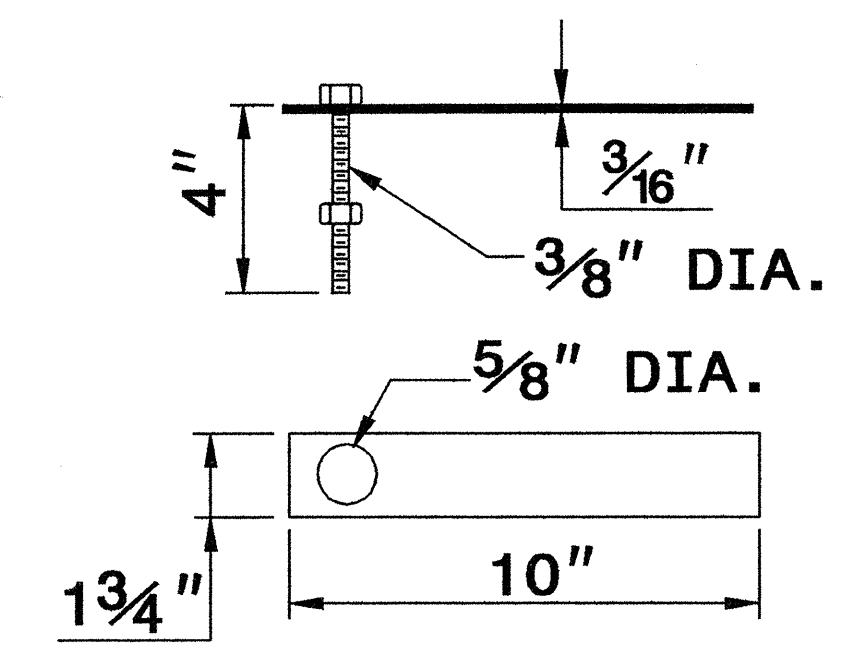
CONCRETE CONSTRUCTION



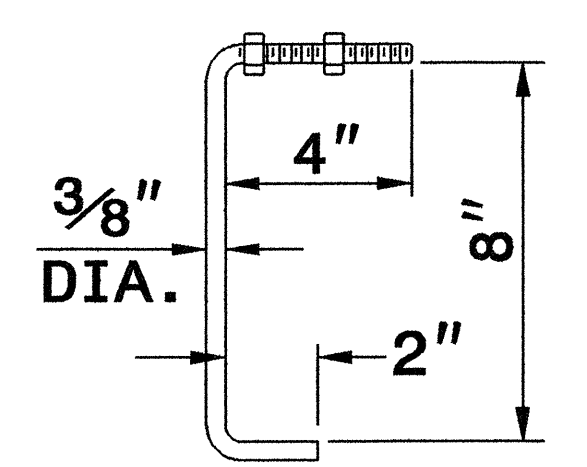
PRECAST CONCRETE CONSTRUCTION

DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

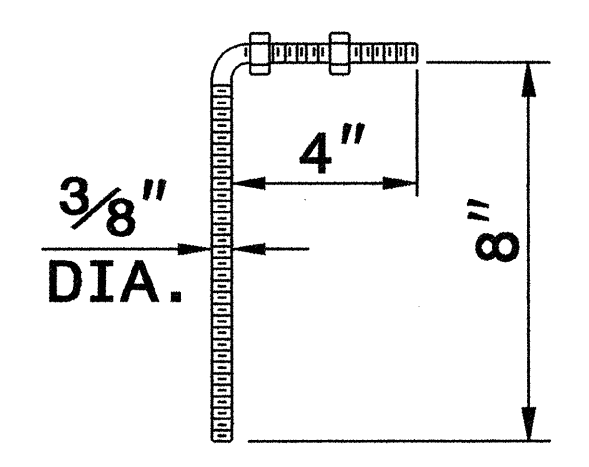
NOTE:
CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.



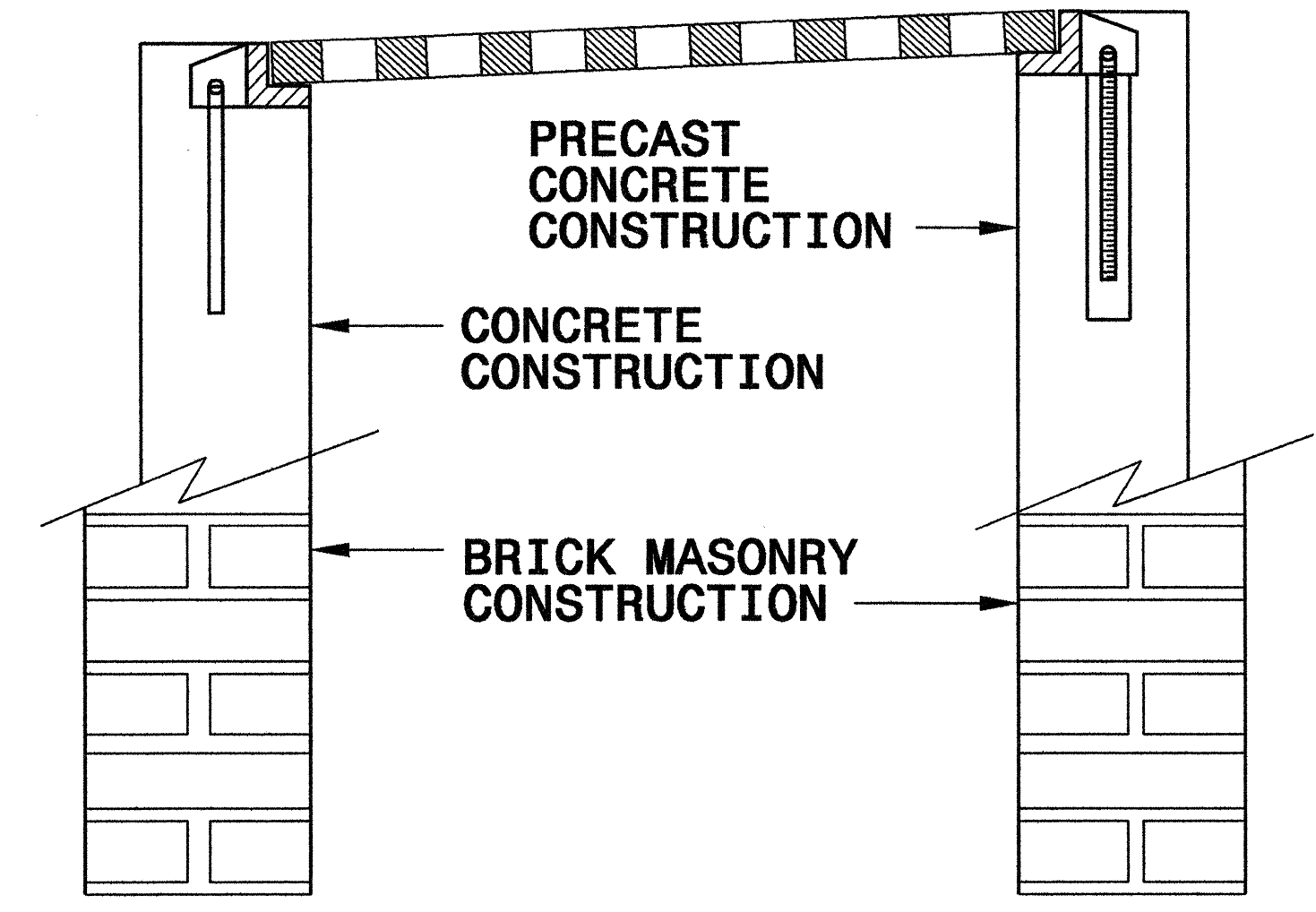
MASONRY ANCHOR
3/8" DIA. BOLT WITH PLATE



CONCRETE ANCHOR
3/8" DIA. BENT BAR



PRECAST CONCRETE ANCHOR
3/8" DIA. BENT BAR



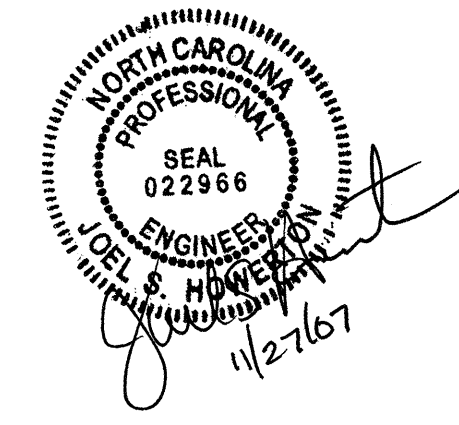
FRAME AND GRATE INSTALLATION FOR NORMAL CROWN AND SUPERELEVATED SECTIONS

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

ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE

SHEET 1 OF 1
840D25

27-SEP-2006 08:59
 C:\projects\Special Details\forward\stds\06\stds to Special Details\84025 Anchorage for Frames\0840d25.dgn
 er10000



PROJECT SERVICES UNIT
STANDARDS AND SPECIAL DESIGN
Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: 2006 STD 840.25 DATE: 07/18/06
 MODIFIED BY: E.E. WARD DATE: 9/25/06
 CHECKED BY: DATE:
 FILE SPEC.:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

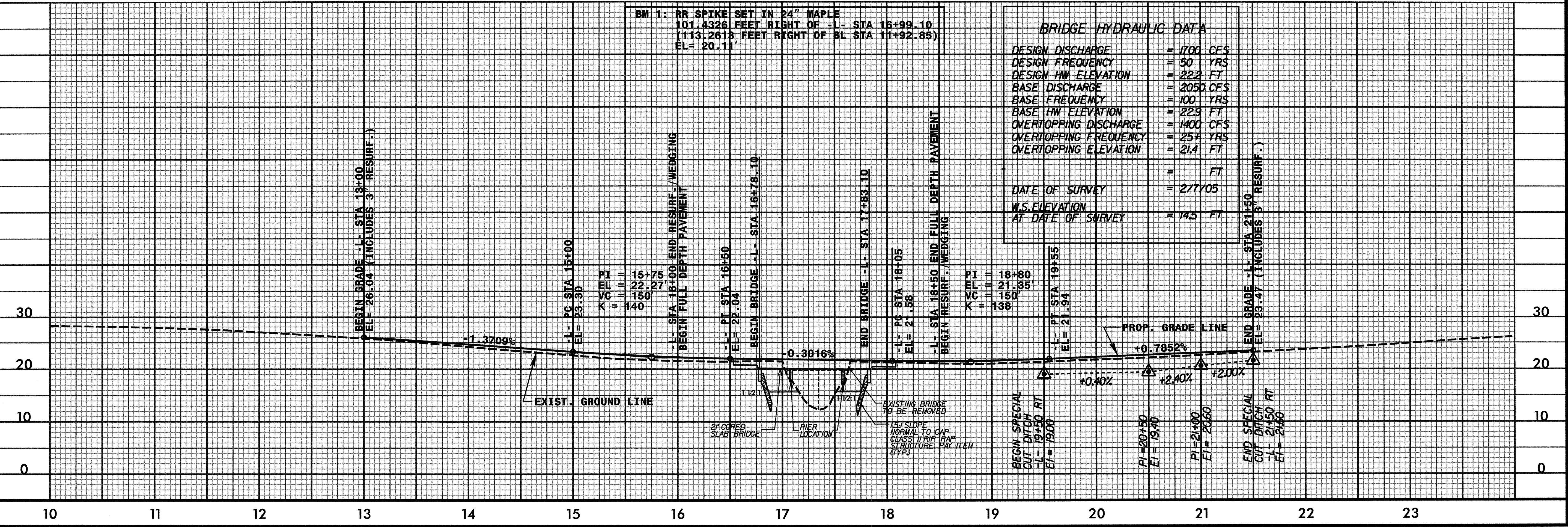
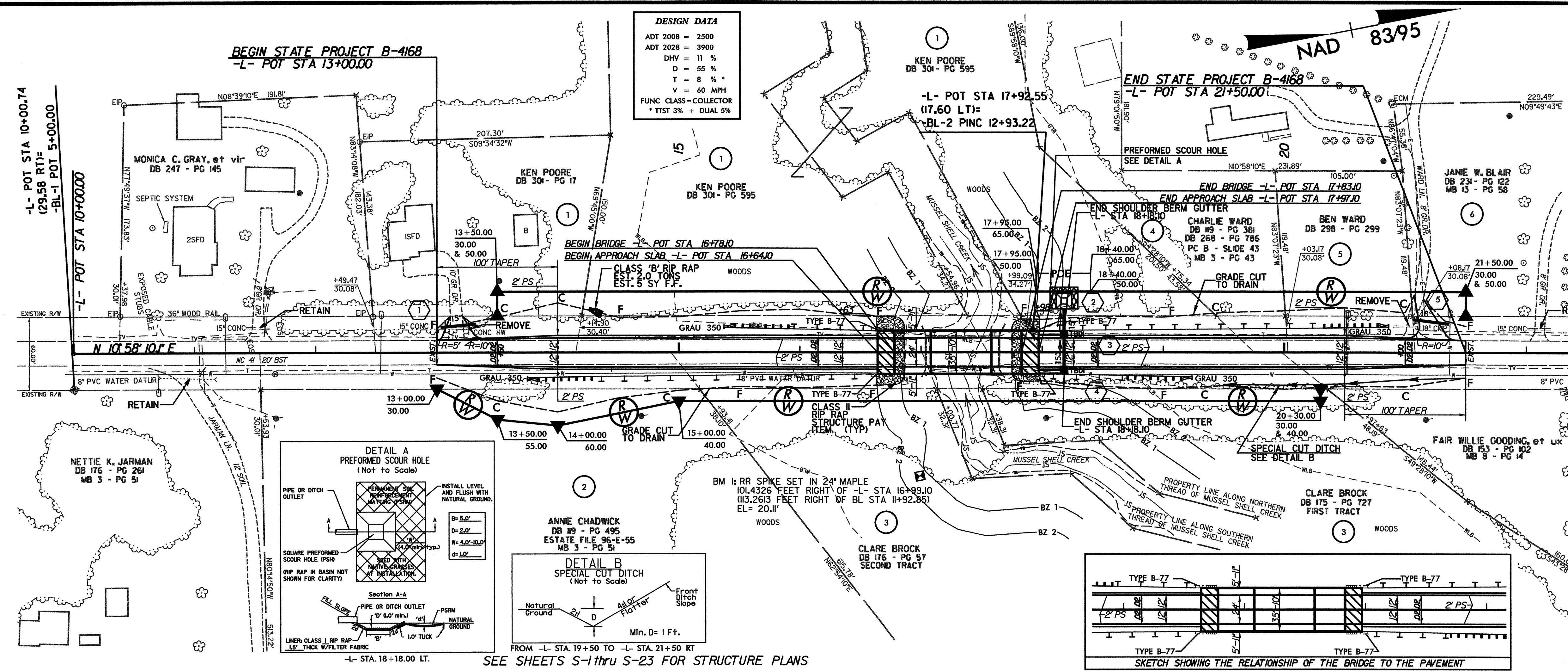
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201771

ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
000100000-N	800	Lump Sum		MOBILIZATION	236700000-N	840	2	EA	FRAME WITH TWO GRATES, STD 840.29	600000000-E	1605	850	LF	TEMPORARY SILT FENCE
000400000-N	801	Lump Sum		CONSTRUCTION SURVEYING	255600000-E	846	42	LF	SHOULDER BERM GUTTER	600600000-E	1610	100	TON	STONE FOR EROSION CONTROL, CLASS A
002900000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (17+30.60)	284500000-N	858	2	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	600900000-E	1610	75	TON	STONE FOR EROSION CONTROL, CLASS B
004300000-N	226	Lump Sum		GRADING	303000000-E	862	625	LF	STEEL BM GUARDRAIL	601200000-E	1610	60	TON	SEDIMENT CONTROL STONE
005000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING	315000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS	601500000-E	1615	1.5	ACR	TEMPORARY MULCHING
005700000-E	226	200	CY	UNDERCUT EXCAVATION	327000000-N	SP	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	601800000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
019500000-E	265	100	CY	SELECT GRANULAR MATERIAL	331700000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77	602100000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
019600000-E	270	100	SY	FABRIC FOR SOIL STABILIZATION	364900000-E	876	2	TON	RIP RAP, CLASS B	602400000-E	1622	50	LF	TEMPORARY SLOPE DRAINS
031800000-E	300	26	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	365600000-E	876	305	SY	FILTER FABRIC FOR DRAINAGE	602700000-N	1622	2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
034300000-E	310	28	LF	15" SIDE DRAIN PIPE	365900000-N	SP	1	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON	602900000-E	SP	200	LF	SAFETY FENCE
034400000-E	310	28	LF	18" SIDE DRAIN PIPE	440000000-E	1110	523	SF	WORK ZONE SIGNS (STATIONARY)	603000000-E	1630	110	CY	SILT EXCAVATION
036600000-E	310	48	LF	15" RC PIPE CULVERTS, CLASS III	440500000-E	1110	96	SF	WORK ZONE SIGNS (PORTABLE)	603600000-E	1631	175	SY	MATTING FOR EROSION CONTROL
099500000-E	340	22	LF	PIPE REMOVAL	441000000-E	1110	94	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	604200000-E	1632	200	LF	1/4" HARDWARE CLOTH
122000000-E	545	100	TON	INCIDENTAL STONE BASE	443500000-N	1135	60	EA	CONES	608400000-E	1660	1.5	ACR	SEEDING & MULCHING
148900000-E	610	450	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	444500000-E	1145	80	LF	BARRICADES (TYPE III)	608700000-E	1660	1	ACR	MOWING
151900000-E	610	5,380	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	445500000-N	1150	30	MD	FLAGGER	609000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
156000000-E	620	345	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	477000000-E	1205	420	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)	609300000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
169300000-E	654	20	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	481000000-E	1205	184,360	LF	PAINT PAVEMENT MARKING LINES (4")	609600000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
202200000-E	815	23	CY	SUBDRAIN EXCAVATION	490000000-N	1251	292	EA	PERMANENT RAISED PAVEMENT MARKERS	610800000-E	1665	1	TON	FERTILIZER TOPDRESSING
203300000-E	815	17	CY	SUBDRAIN FINE AGGREGATE	532580000-E	1510	55	LF	8" WATER LINE	611400000-N	SP	2	HR	SPECIALIZED HAND MOWING
204400000-E	815	100	LF	6" PERFORATED SUBDRAIN PIPE	554600000-E	1515	2	EA	8" VALVE	611700000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL
205500000-E	815	3	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS	580100000-E	1530	430	LF	ABANDON 8" UTILITY PIPE	612300000-E	1670	0.1	ACR	REFORESTATION
206600000-N	815	1	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	587150000-E	1550	196	LF	TRENCHLESS INSTALLATION OF 8" IN SOIL					
207700000-E	815	6	LF	6" OUTLET PIPE (SUBDRAINS)	587151000-E	1550	196	LF	TRENCHLESS INSTALLATION OF 8" NOT IN SOIL					
228600000-N	840	2	EA	MASONRY DRAINAGE STRUCTURES										

5/28/09

8/17/99

PROJECT REFERENCE NO. B-4168	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER W. J. WOOD	HYDRAULICS ENGINEER ROGER S. WELDON
SEAL 17306 NORTH CAROLINA PROFESSIONAL ENGINEER C. J. WOOD	SEAL 21656 NORTH CAROLINA PROFESSIONAL ENGINEER ROGER S. WELDON
PLANS PREPARED BY: FLORENCE & HUTCHISON, INC. CONSULTING ENGINEERS 4020 WINDYCHASE BLVD., SUITE 475 RALEIGH, NC 27617	



FILENAME: ...\\Proj\B4168_rdy_psh04.dgn
DATE: 09/20/2007