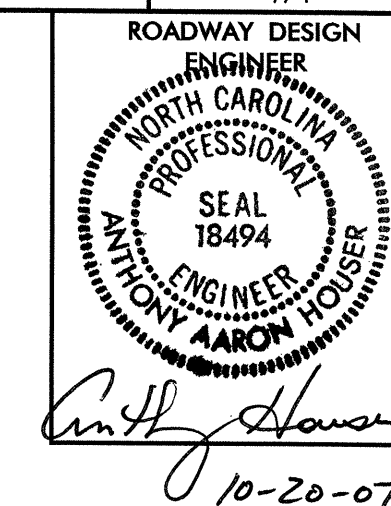


PROJECT : 33276.3.1 B-3824 C201787
COUNTY : CHATHAM



INDEX OF SHEETS:

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C	SURVEY CONTROL SHEET B-3824LS
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2A	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B	ANCHORAGE FOR FRAMES
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF DRAINAGE, GUARDRAIL, EARTHWORK, AND ASPHALT PAVEMENT REMOVAL AND BREAKING
4	PLAN SHEET
5	PROFILE SHEET
TCP-1	TRAFFIC CONTROL PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
UO-1 THRU UO-2	UTILITIES PLANS
X-A	CROSS-SECTIONS EARTHWORK SUMMARY
X-1 THRU X-8	CROSS-SECTIONS
S-1 THRU S-37	STRUCTURE PLANS

GENERAL NOTES:

EFFECTIVE: 07-18-06
REVISED: 07-18-06

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.

DRIVEWAYS:
DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS 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 PROGRESS ENERGY AND BELLSOUTH.
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 CONTRACT.

2006 SPECIFICATIONS

2006 ROADWAY 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
225.04	Method of Obtaining Superlevation - Two Lane Pavement
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 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
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
840.29	Frames and Narrow Slot Flat Grates
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.46	Traffic Bearing Precast Drainage Structure
846.01	Concrete Curb, Gutter and Curb & Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

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

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	○ 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-

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	-JS-
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	○ 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	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	-E-
Proposed Temporary Construction Easement	-E-
Proposed Temporary Drainage Easement	-TDE-
Proposed Permanent Drainage Easement	-PDE-
Proposed Permanent Utility Easement	-PUE-

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-C-
Proposed Slope Stakes Fill	-F-
Proposed Wheel Chair Ramp	○ WCR
Curb Cut for Future Wheel Chair Ramp	○ CCFR
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	□ 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	-----
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	□
A/G Tank; Water, Gas, Oil	□
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

6/2/09

SURVEY CONTROL SHEET B-3824

PROJECT REFERENCE NO.	SHEET NO.
B-3824	1C
Location and Surveys	



BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
2	B3824-2	755931.0310	1942353.2990	387.74		OUTSIDE PROJECT LIMITS
100	BL-100	755984.6220	1942793.8170	386.38		OUTSIDE PROJECT LIMITS
101	BL-101	755829.8930	1943355.1050	378.96	13+92.78	11.31 LT
102	BL-102	755641.1260	1944009.6900	415.73	20+74.04	12.72 LT

.....
 BM+1 ELEVATION = 388.78
 N 755843 E 1943138
 L STATION 11+81 37 RIGHT
 RR SPIKE IN BASE OF POWER POLE

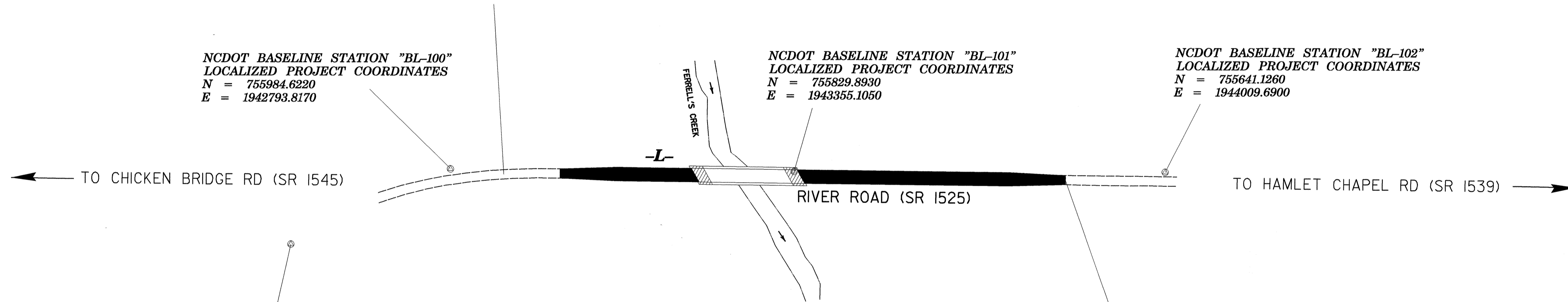
 BM+2 ELEVATION = 407.01
 N 755646 E 1943837
 L STATION 19+07 31 RIGHT
 RR SPIKE IN BASE OF POWER POLE

-L- STA. 9+00.00 BEGIN TIP PROJECT B-3824
LOCALIZED PROJECT COORDINATES
 N = 755953.3722
 E = 1942877.8970

NCDOT BASELINE STATION "BL-100"
 LOCALIZED PROJECT COORDINATES
 N = 755984.6220
 E = 1942793.8170

NCDOT BASELINE STATION "BL-101"
 LOCALIZED PROJECT COORDINATES
 N = 755829.8930
 E = 1943355.1050

NCDOT BASELINE STATION "BL-102"
 LOCALIZED PROJECT COORDINATES
 N = 755641.1260
 E = 1944009.6900



NCDOT GPS STATION "B3824-2"
 LOCALIZED PROJECT COORDINATES
 N = 755931.0310
 E = 1942353.2990

-L- STA. 19+00.00 END TIP PROJECT B-3824
LOCALIZED PROJECT COORDINATES
 N = 755677.4817
 E = 1943839.0145

NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.DOHDOT.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:
 B-3824_LS_CONTROL_051121.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.

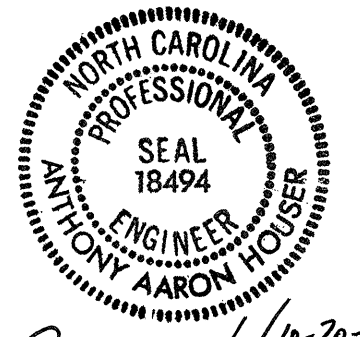
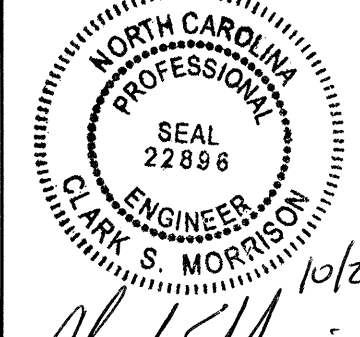
NOTE: DRAWING NOT TO SCALE

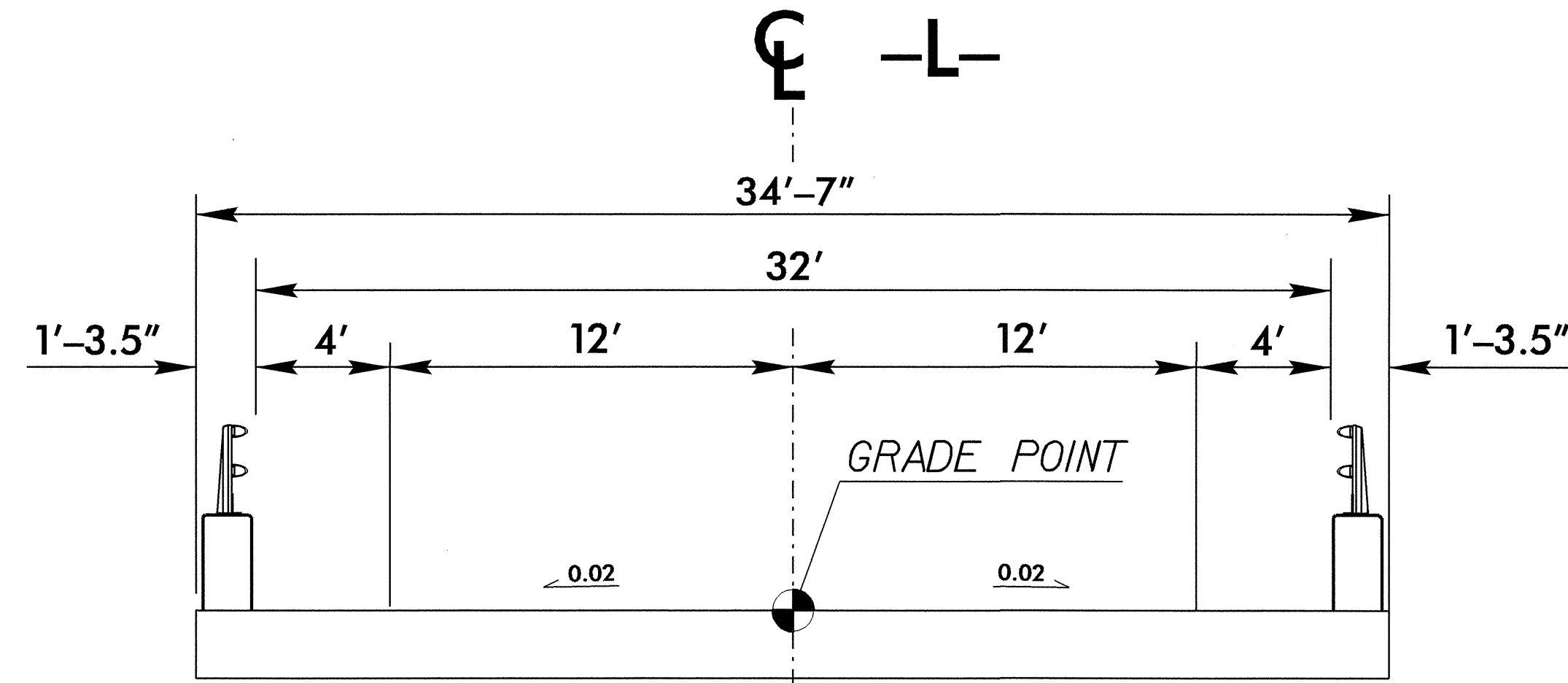
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PAVEMENT SCHEDULE

C1	PROP. APPROX. 2½" 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. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1" IN DEPTH OR GREATER THAN 1½" IN DEPTH.
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 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 2½" 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 5½" IN DEPTH.
R	SHOULDER BERM GUTTER.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

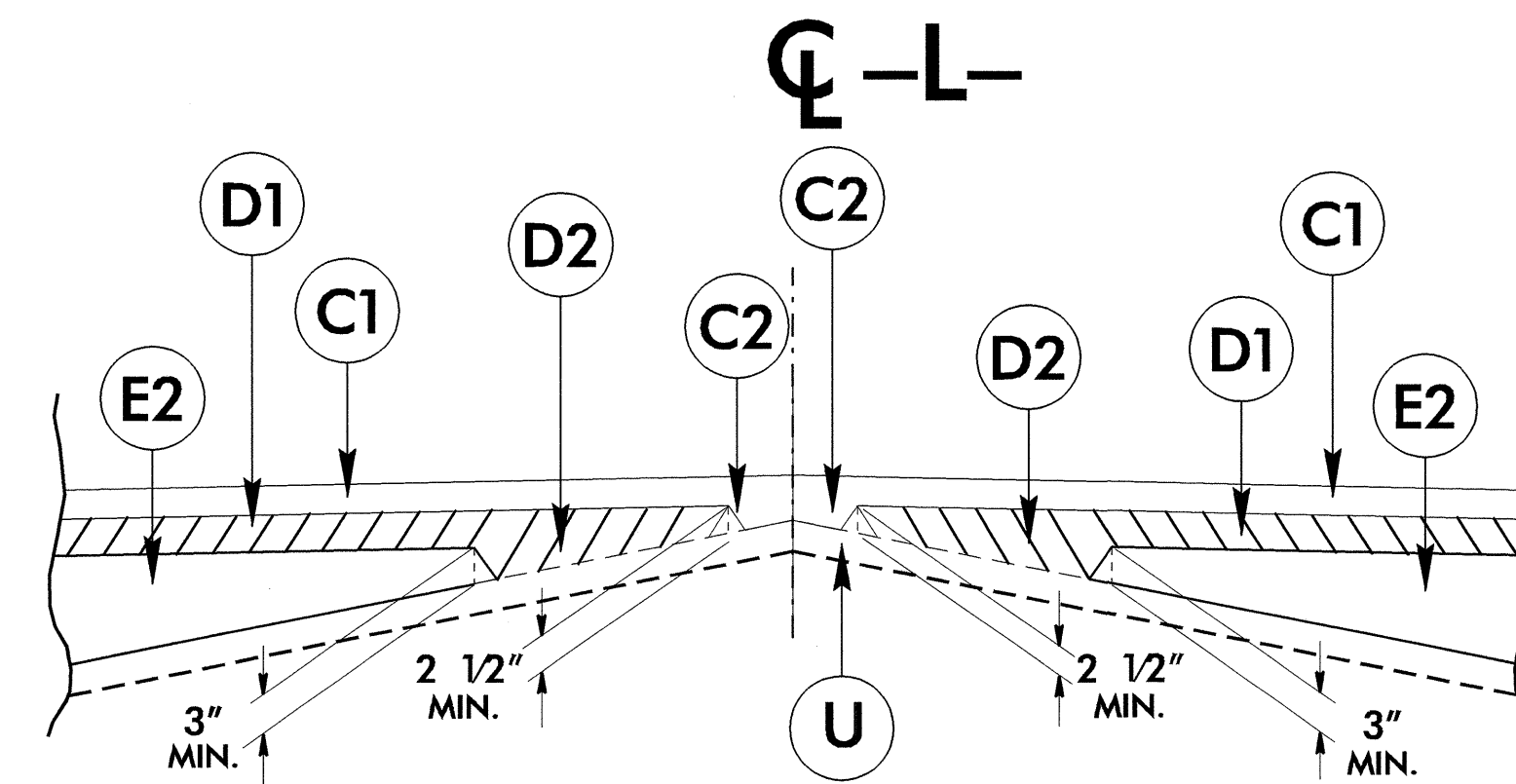
NOTE: Pavement Edge Slopes Are 1:1 Unless Shown otherwise.

PROJECT REFERENCE NO. B-3824	SHEET NO. 2
ROADWAY DESIGN ENGINEER  Anthony Aaron Houser	PAVEMENT DESIGN ENGINEER  Charles S. Morrison

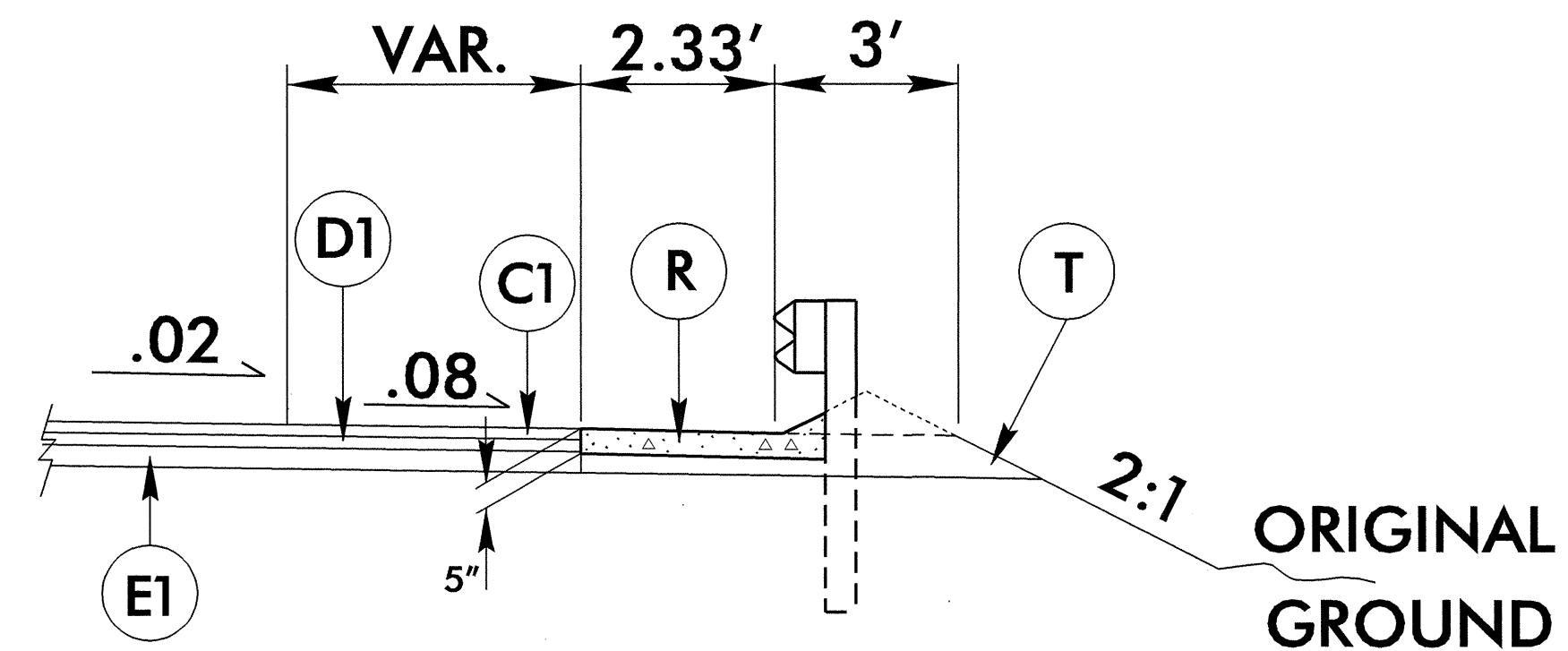


TYPICAL SECTION ON BRIDGE

NOTE: BICYCLE SAFE TWO BAR METAL RAIL
-L- STA. 12+63.00 (BEGIN BRIDGE) TO 14+07.00 (END BRIDGE)



DETAIL SHOWING METHOD OF WEDGING



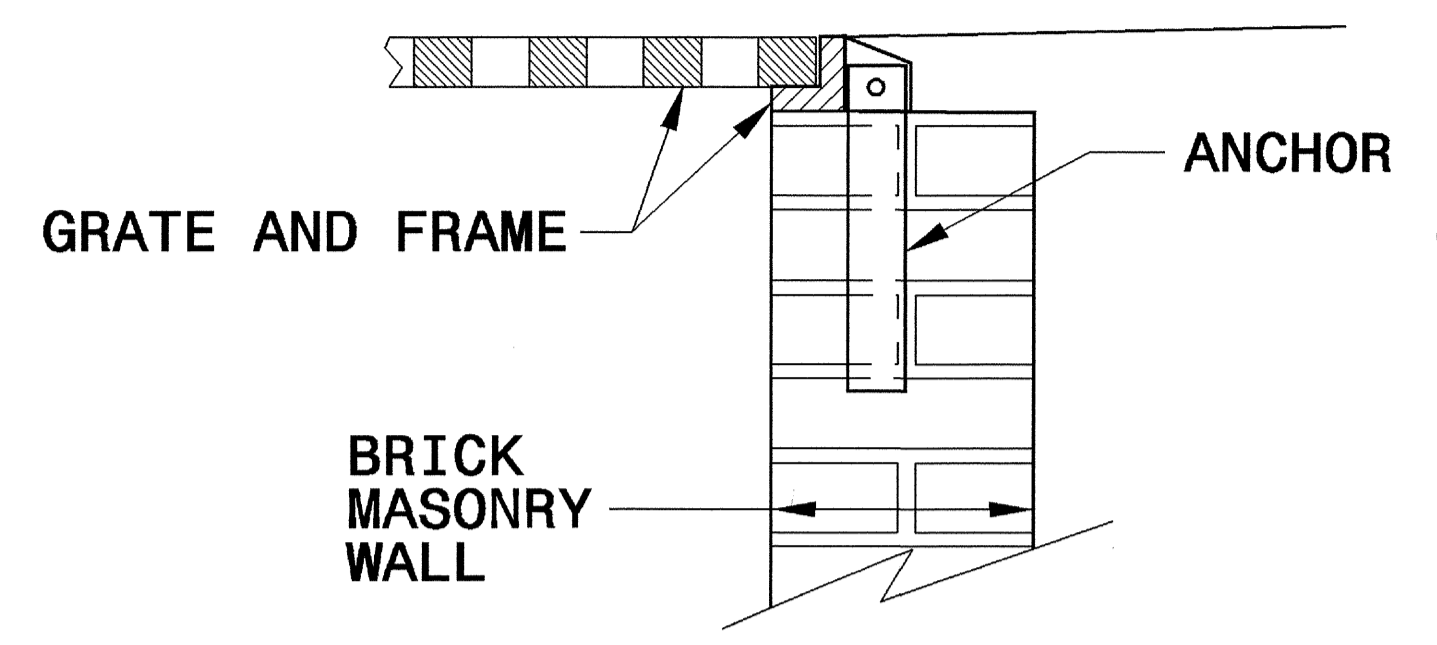
DETAIL SHOWING PAVED SHOULDER IN RELATION TO GUARDRAIL

USE SHOULDER BERM GUTTER FOR THE FOLLOWING:
LEFT SHOULDER -L- STA 11+62.00 TO APPROACH SLAB
APPROACH SLAB TO -L- STA 16+25.00
RIGHT SHOULDER -L- STA 11+00.00 TO APPROACH SLAB
APPROACH SLAB TO -L- STA 15+10.00

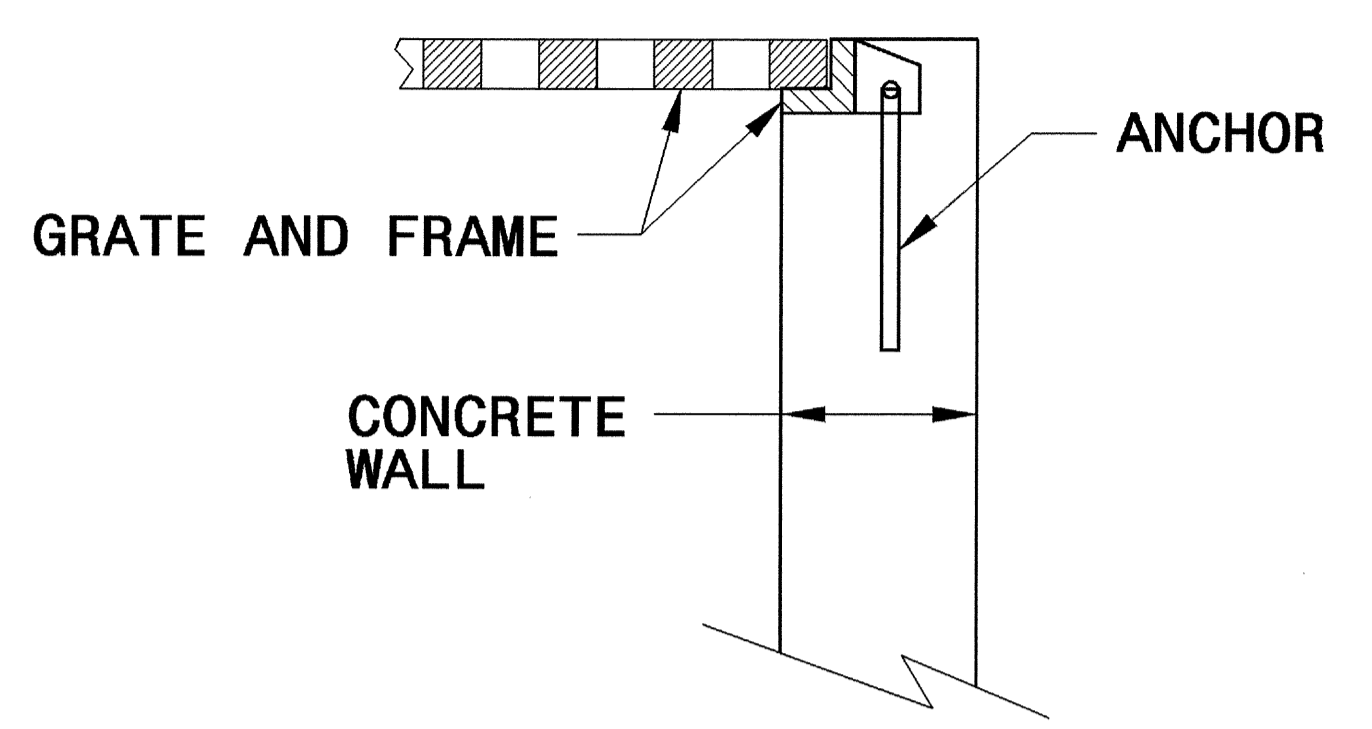
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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

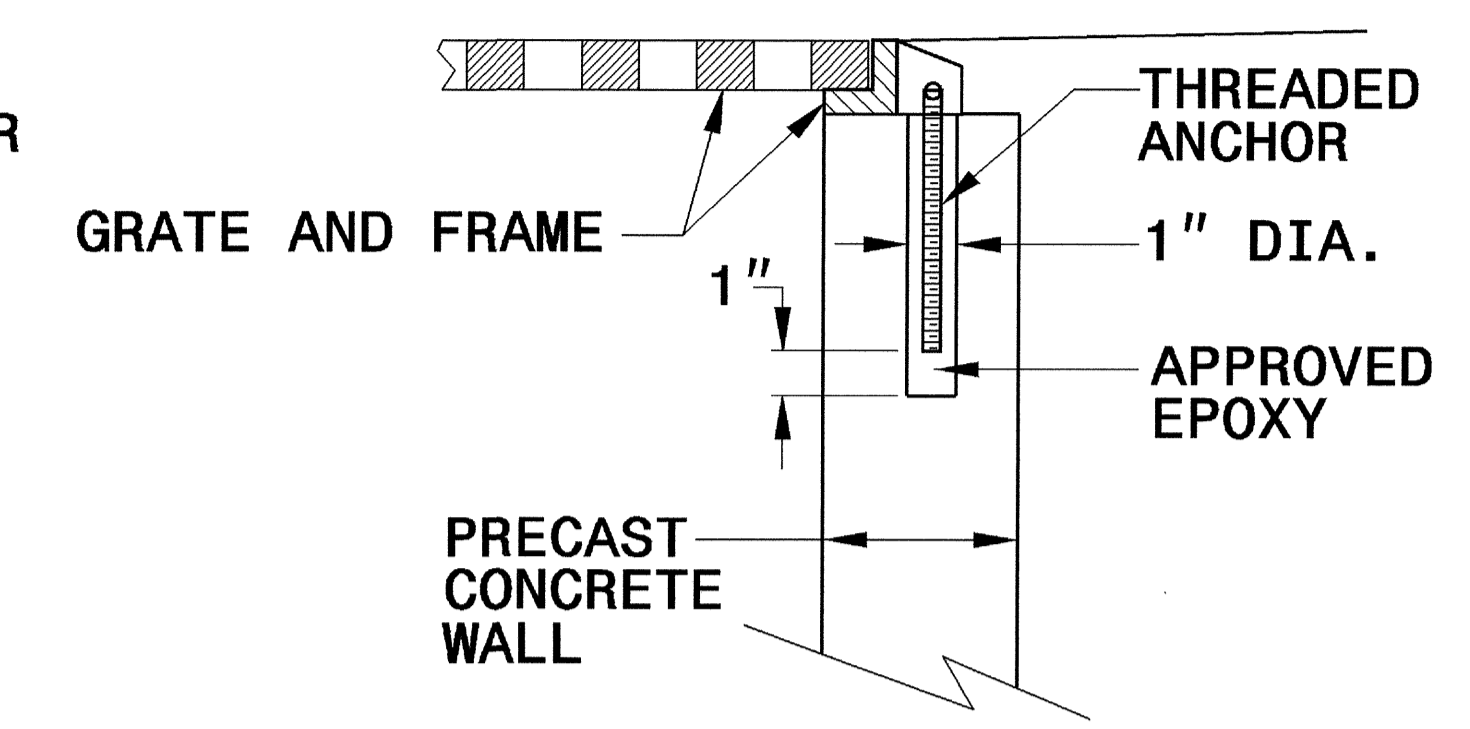
SHEET 1 OF 1
840D25



BRICK MASONRY CONSTRUCTION



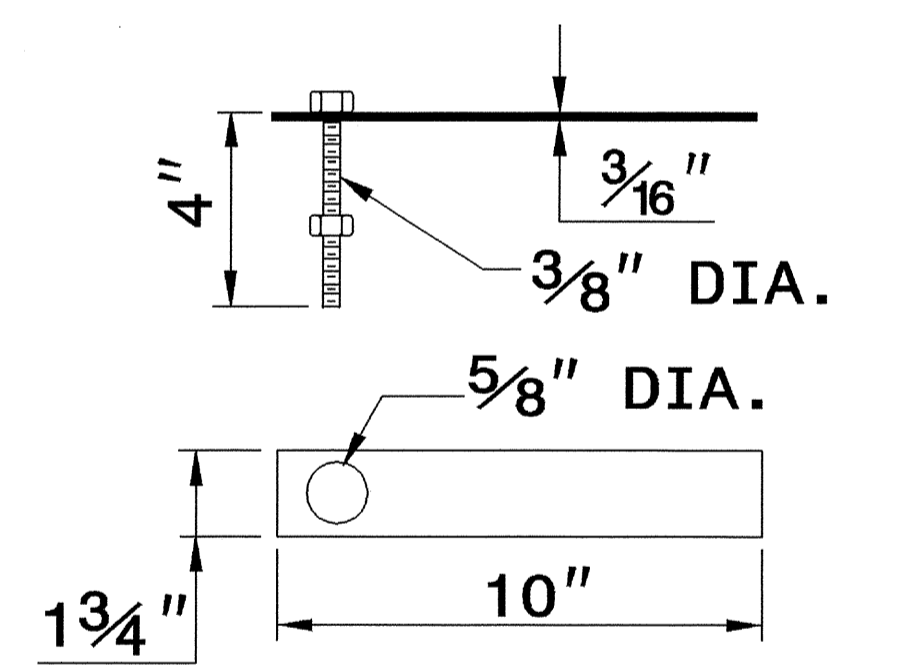
CONCRETE CONSTRUCTION



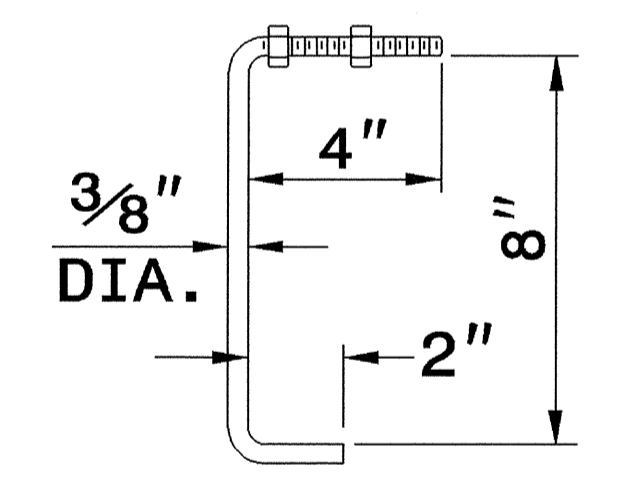
PRECAST CONCRETE CONSTRUCTION

DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

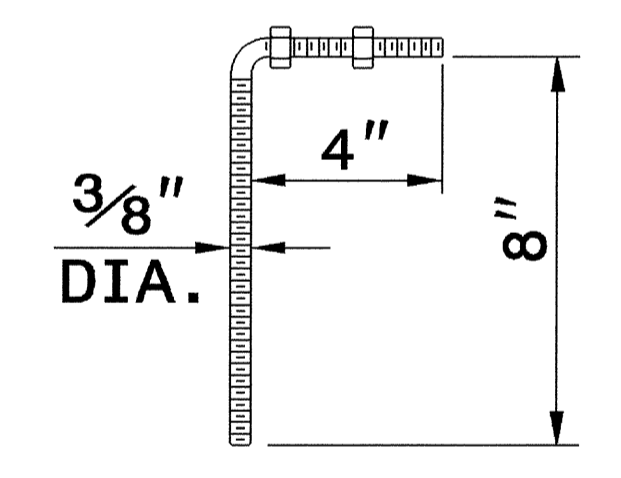
NOTE:
CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.



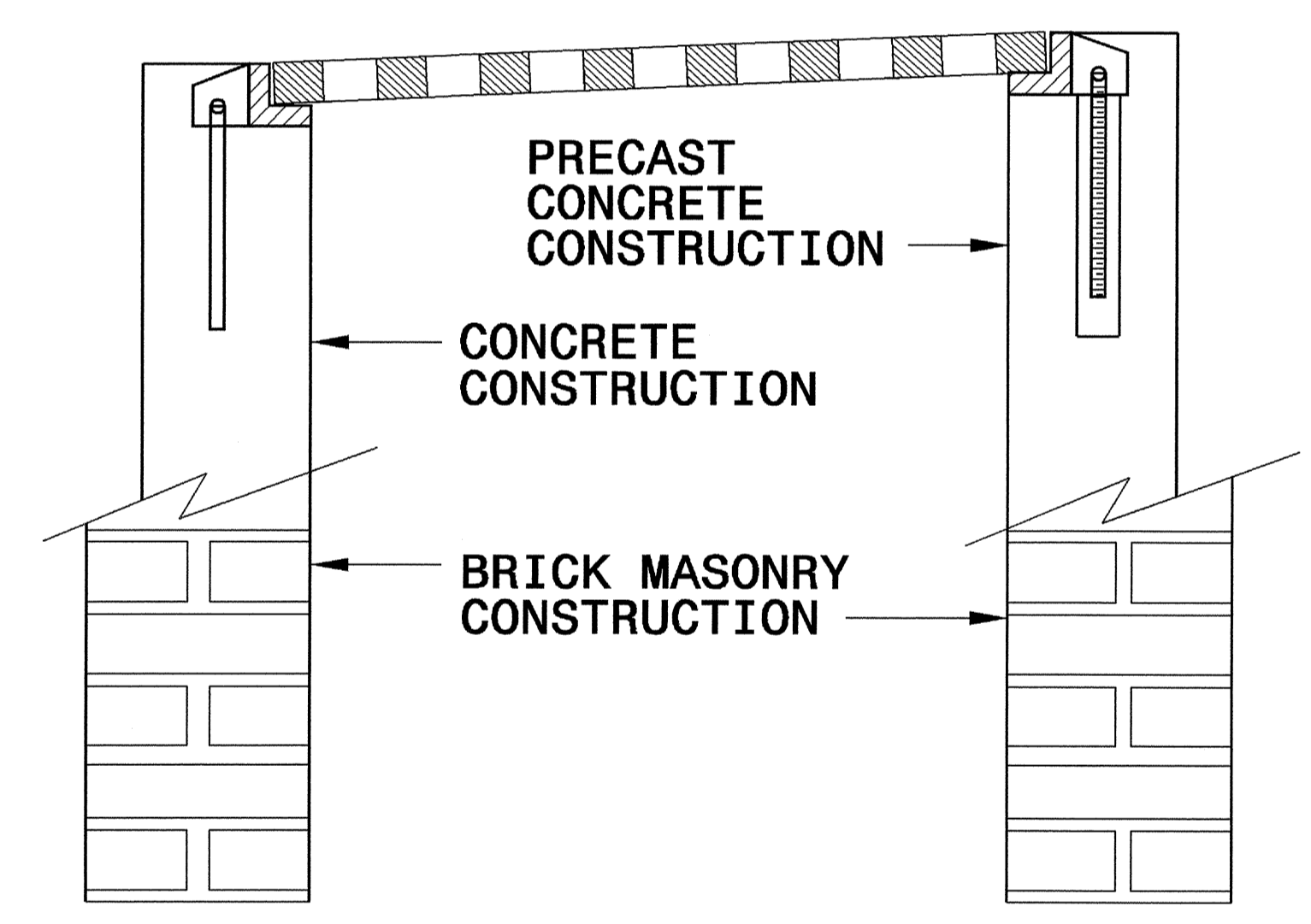
MASONRY ANCHOR
3/8" DIA. BOLT WITH PLATE



CONCRETE ANCHOR
3/8" DIA. BENT BAR



PRECAST CONCRETE ANCHOR
3/8" DIA. BENT BAR



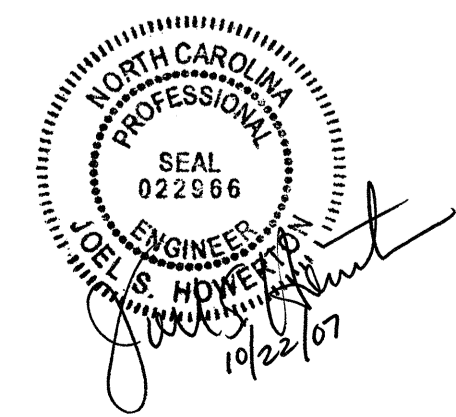
FRAME AND GRATE INSTALLATION FOR NORMAL CROWN AND SUPERELEVATED SECTIONS

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\ericward\stds\06\stds to Special Details\84025 Anchorage for Frames\0840d25.dgn
ericward AT 8/22/06



**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.: _____

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201787

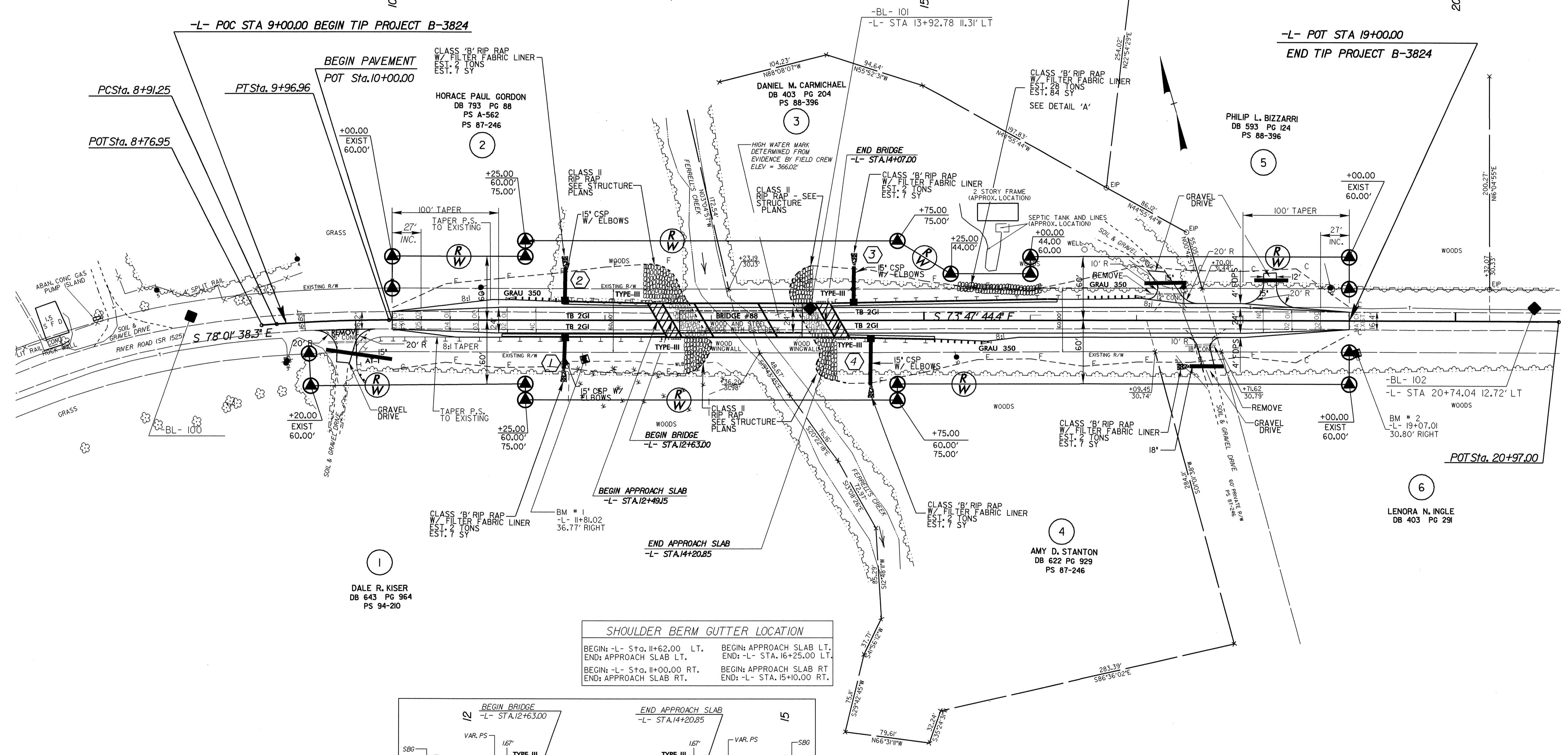
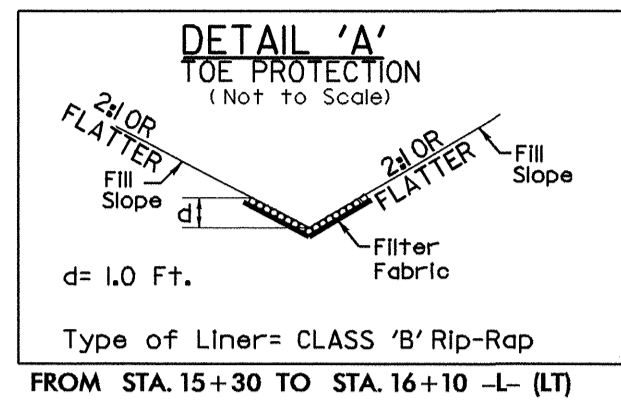
ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	3045000000-E	862	50	LF	STEEL BM GUARDRAIL, SHOP CURVED	6038000000-E	SP	550	SY	PERMANENT SOIL REINFORCEMENT MAT
0029000000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+35.00)	3150000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS	6042000000-E	1632	80	LF	1/4" HARDWARE CLOTH
0043000000-N	226	Lump Sum		GRADING	3195000000-N	862	1	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1	6070000000-N	SP	12	EA	SPECIAL STILLING BASINS
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING	3215000000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE III	6071030000-E	SP	255	LF	COIR FIBER BAFFLES
0057000000-E	226	200	CY	UNDERCUT EXCAVATION	3270000000-N	SP	3	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	6071050000-E	SP	4	EA	*** SKIMMER (1-1/2")
0195000000-E	265	200	CY	SELECT GRANULAR MATERIAL	3649000000-E	876	38	TON	RIP RAP, CLASS B	6084000000-E	1660	2.5	ACR	SEEDING & MULCHING
0196000000-E	270	200	SY	FABRIC FOR SOIL STABILIZATION	3656000000-E	876	859	SY	FILTER FABRIC FOR DRAINAGE	6087000000-E	1660	1.5	ACR	MOWING
0318000000-E	300	35	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	4400000000-E	1110	372	SF	WORK ZONE SIGNS (STATIONARY)	6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
0343000000-E	310	136	LF	15" SIDE DRAIN PIPE	4410000000-E	1110	131	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
0344000000-E	310	32	LF	18" SIDE DRAIN PIPE	4445000000-E	1145	80	LF	BARRICADES (TYPE III)	6096000000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
0708000000-E	310	148	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	4810000000-E	1205	7,200	LF	PAINT PAVEMENT MARKING LINES (4")	6108000000-E	1665	2	TON	FERTILIZER TOPDRESSING
0806000000-E	310	8	EA	15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK	4900000000-N	1251	11	EA	PERMANENT RAISED PAVEMENT MARKERS	6114000000-N	SP	2	HR	SPECIALIZED HAND MOWING
0995000000-E	340	98	LF	PIPE REMOVAL	6000000000-E	1605	1,000	LF	TEMPORARY SILT FENCE	6117000000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL
1220000000-E	545	30	TON	INCIDENTAL STONE BASE	6006000000-E	1610	75	TON	STONE FOR EROSION CONTROL, CLASS A					
1489000000-E	610	480	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	6009000000-E	1610	145	TON	STONE FOR EROSION CONTROL, CLASS B					
1498000000-E	610	325	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	6012000000-E	1610	330	TON	SEDIMENT CONTROL STONE					
1525000000-E	610	380	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A	6015000000-E	1615	2.5	ACR	TEMPORARY MULCHING					
1560000000-E	620	61	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	6018000000-E	1620	100	LB	SEED FOR TEMPORARY SEEDING					
1693000000-E	654	200	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	6021000000-E	1620	0.5	TON	FERTILIZER FOR TEMPORARY SEEDING					
2000000000-N	806	18	EA	RIGHT OF WAY MARKERS	6024000000-E	1622	140	LF	TEMPORARY SLOPE DRAINS					
2286000000-N	840	4	EA	MASONRY DRAINAGE STRUCTURES	6027000000-N	1622	4	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS					
2355000000-N	840	4	EA	FRAME WITH GRATE, STD 840.29	6029000000-E	SP	360	LF	SAFETY FENCE					
2556000000-E	846	550	LF	SHOULDER BERM GUTTER	6030000000-E	1630	735	CY	SILT EXCAVATION					
3030000000-E	862	675	LF	STEEL BM GUARDRAIL	6036000000-E	1631	570	SY	MATTING FOR EROSION CONTROL					
					6037000000-E	SP	25	SY	COIR FIBER MAT					

5/28/99

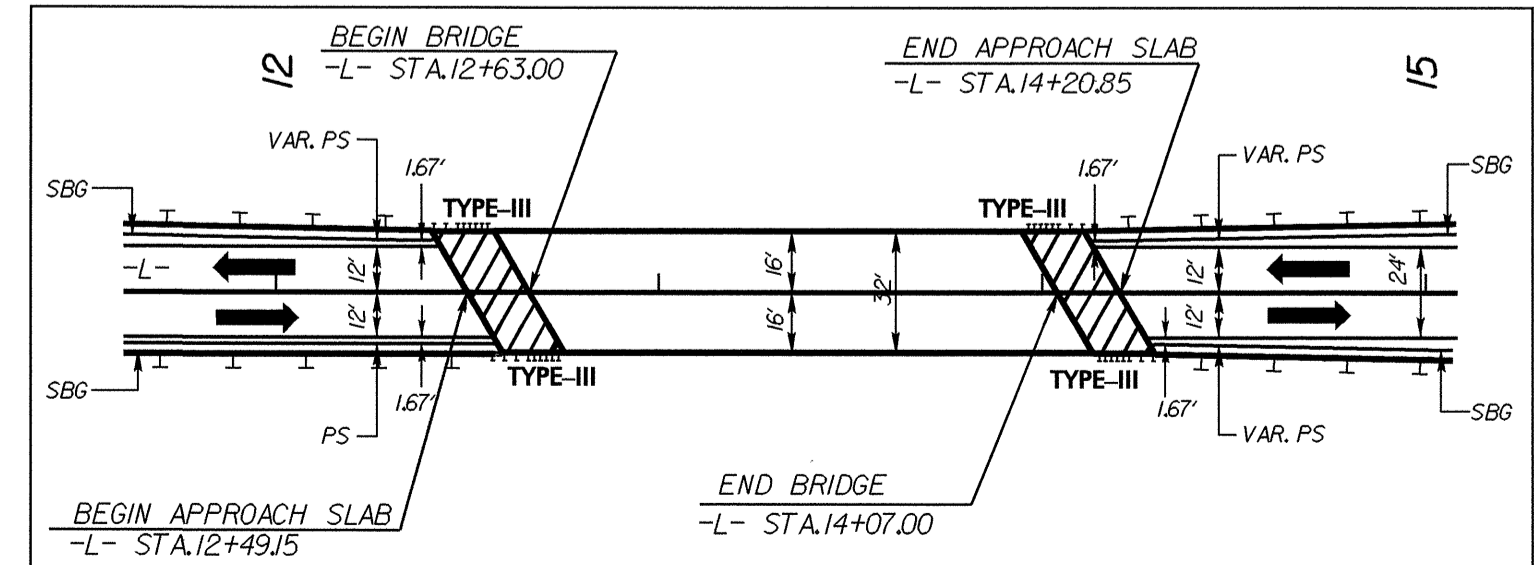
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** Design Exception required for the vertical curve "K" and the stopping sight distance.

-L-
 PI Sta 9+44.13
 $\Delta = 4' 13" 53.9" (RT)$
 $D = 4' 00" 10.9"$
 $L = 105.71'$
 $T = 52.88'$
 $R = 1,431.32'$
 $RO = \text{see plans}$
 $SE = \text{see plans}$



SHOULDER BERM GUTTER LOCATION
 BEGIN: -L- Sta. 11+62.00 LT. BEGIN: APPROACH SLAB LT.
 END: APPROACH SLAB LT. END: -L- STA. 16+25.00 LT.
 BEGIN: -L- Sta. 11+00.00 RT. BEGIN: APPROACH SLAB RT.
 END: APPROACH SLAB RT. END: -L- STA. 15+10.00 RT.



SKETCH SHOWING RELATIONSHIP OF BRIDGE TO PAVEMENT AND SHOULDERS

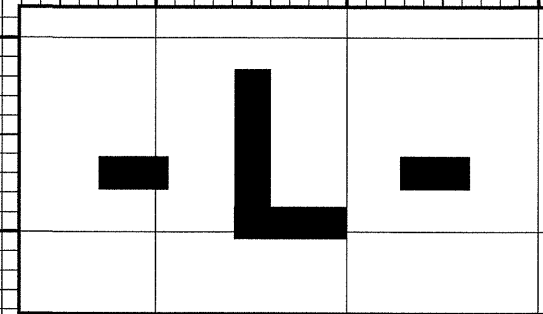
NOTES:
 SEE SHEET 5 FOR -L- PROFILE
 SEE SHEET S-1 TO S-37 FOR STRUCTURE PLANS

REVISIONS

8/17/99
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5/14/99

** Design Exception required for the vertical curve 'K' and the stopping sight distance.



STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 2800 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 371.67 FT
BASE DISCHARGE	= 4200 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 371.89 FT
OVERTOPPING DISCHARGE	= 6100 CFS
OVERTOPPING FREQUENCY	= 500 YRS
OVERTOPPING ELEVATION	= 379.14 FT

END GRADE
-L- Sta 19+00.00
EL = 406.24'

BEGIN GRADE
-L- Sta 10+00.00
EL = 380.65'

PI = 14+11.12
VC = 820'
EL = 374.07'
K = 100
V = 51 MPH

STA 13+35 -L- EL=380.85'
45° PRESTRESSED GIRDERS
3 SPANS: 1 @ 30', 1 @ 60', 1 @ 54'
L=144'
60° SKEW

BM #2 - RR SPIKE IN BASE OF POWER POLE
30.63 FT RT -L- STA. 19+06.88
EL 407.01

BM #1 - RR SPIKE IN BASE OF POWER POLE
36.61 FT RT -L- STA. 11+81.44
EL 368.78

-L- PLAN SHEET 4

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