

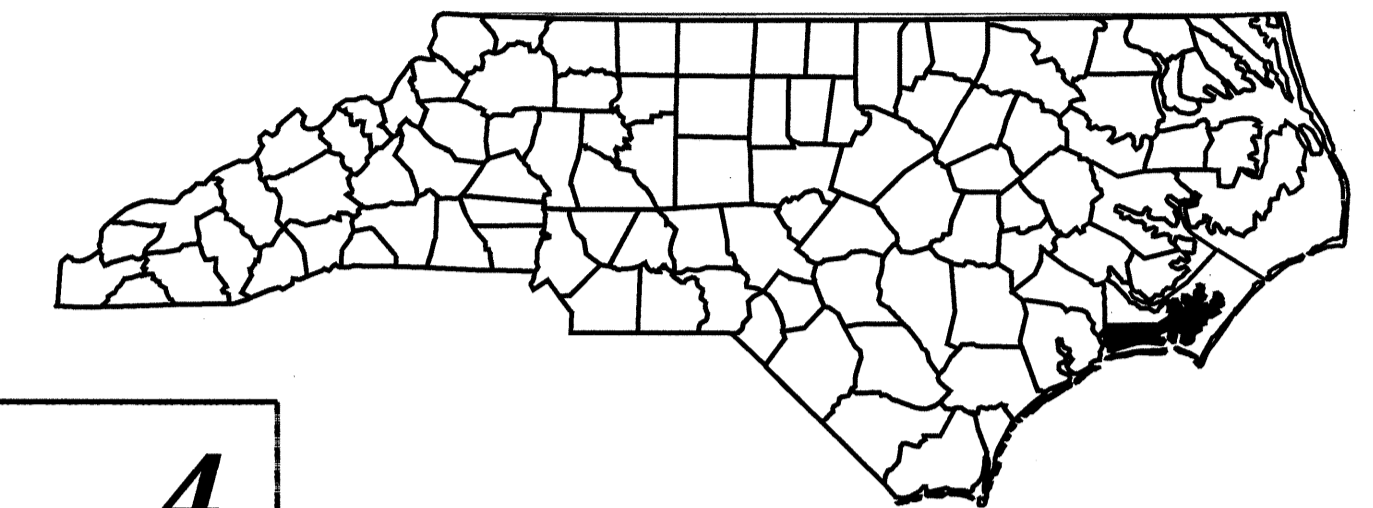
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3625	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33173.1.1	BRSTP-1124(3)	P.E.	
33173.2.1	BRSTP-1124(3)	RW, UTL	
33173.3.2	BRSTP-1124(3)	CONSTR.	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

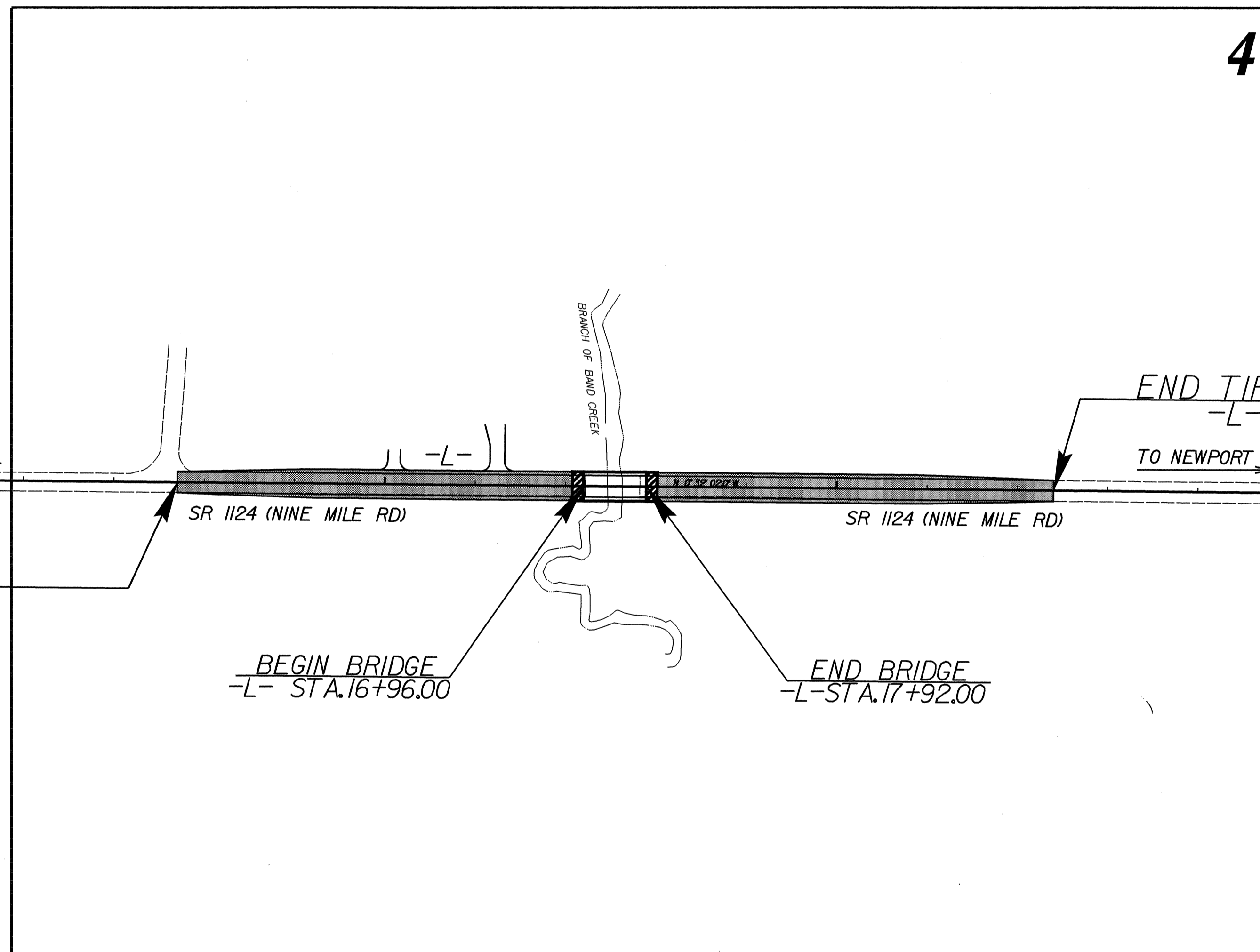
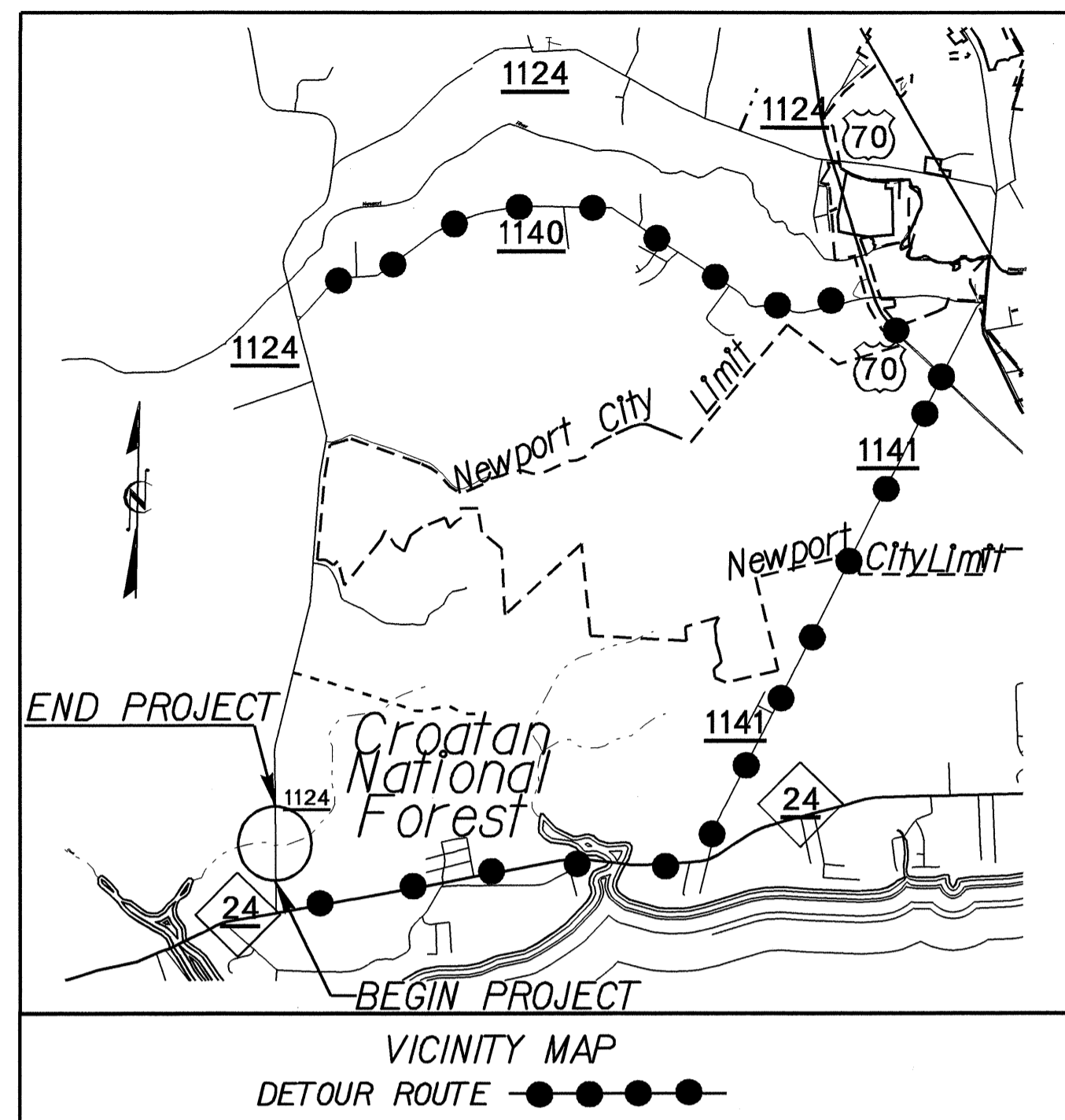
CARTERET COUNTY

LOCATION: BRIDGE No. 20 OVER A BRANCH OF BAND CREEK ON SR 1124

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



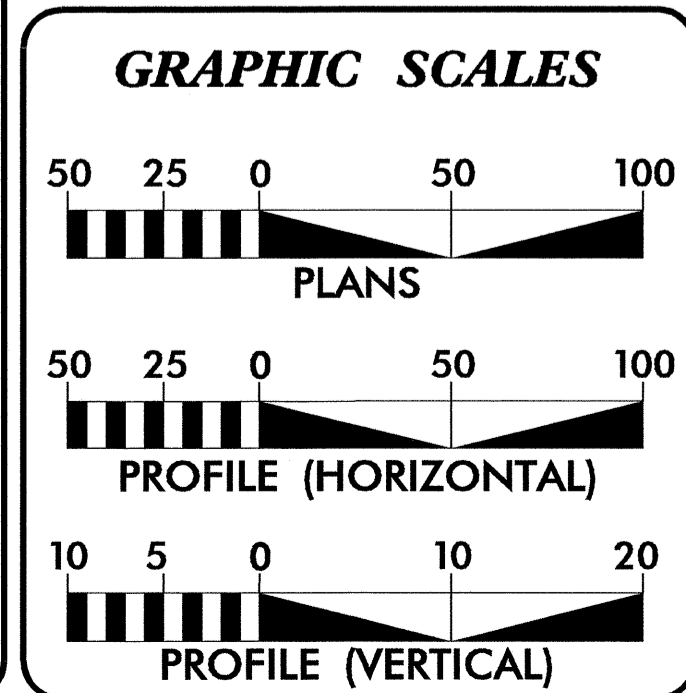
See Sheet 1-A For Index of Sheets



THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.

TIP PROJECT: B-3625

CONTRACT: C202081



DESIGN DATA

ADT 2008 =	5950
ADT 2028 =	8950
DHV =	10 %
D =	55 %
T =	4 % *
V =	60 MPH
* TTST 1 %	DUAL 3 %

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-3625 =	0.166 MILE
LENGTH STRUCTURE TIP PROJECT B-3625 =	0.018 MILE
TOTAL LENGTH TIP PROJECT B-3625 =	0.184 MILE

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: SEPTEMBER 16, 2005	TONY A. HOUSER, PE PROJECT ENGINEER
LETTING DATE: MAY 20, 2008	BRUCE B. PAYNE, PE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: *Tony A. Houser*

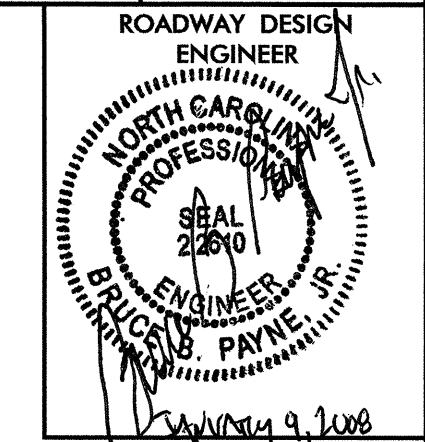
PROJECT DESIGN ENGINEER

SIGNATURE: *Bruce B. Payne*

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

cut millan
STATE HIGHWAY DESIGN ENGINEER

07-JAN-2008 12:17
r:\roadway\proj\B3625-rdy-tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$



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	LOCATION AND SURVEYS
2	PAVEMENT SCHEDULE, DETAIL SHOWING METHOD OF WEDGING, AND TYPICAL SECTION
2-A	DETAIL OF ANCHORAGE FOR FRAMES
3	SUMMARY OF QUANTITIES
3-A	SUMMARY OF DRAINAGE QUANTITIES
3-B	GUARDRAIL SUMMARY, SUMMARY OF ASPHALT, PAVEMENT REMOVAL AND SUMMARY OF EARTHWORK
4	PLAN SHEET
5	PROFILE SHEET
TCP-1	TRAFFIC CONTROL PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
UO-1 THRU UO-2	UTILITY BY OTHERS
X-0	CROSS-SECTION SUMMARY
X-1 THRU X-5	CROSS-SECTIONS
S-1 THRU S-22	STRUCTURE PLANS

GENERAL NOTES:

2006 SPECIFICATIONS
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. 848.02 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.

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 CARTERET-CRAVEN EMC., EMBARQ AND TIME WARNER. 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.

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
225.04	Method of Obtaining Superelevation - 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 8 - INCIDENTALS	
816.04	Markers for Drainage Structure and Concrete Pad
840.00	Concrete Base Pad for Drainage Structures
840.25	Anchorage for Frames - Brick or Concrete (Beg. January 2007 Let Use Detail in Lieu of Standard)
840.29	Frames and Narrow Slot Flat Grates
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.45	Precast Drainage Structure
840.54	Manhole Frame and Cover
846.01	Concrete Curb, Gutter and Curb & Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
848.02	Driveway Turnout - Radius Type
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
876.02	Guide for Rip Rap at Pipe Outlets

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	○
Property Corner	-----
Property Monument	□
Parcel/Sequence Number	(23)
Existing Fence Line	-----
Proposed Woven Wire Fence	-----
Proposed Chain Link Fence	-----
Proposed Barbed Wire Fence	-----
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing High Quality 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	-----
River Basin Buffer	-----
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Swamp Marsh	-----
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	-----
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	-----

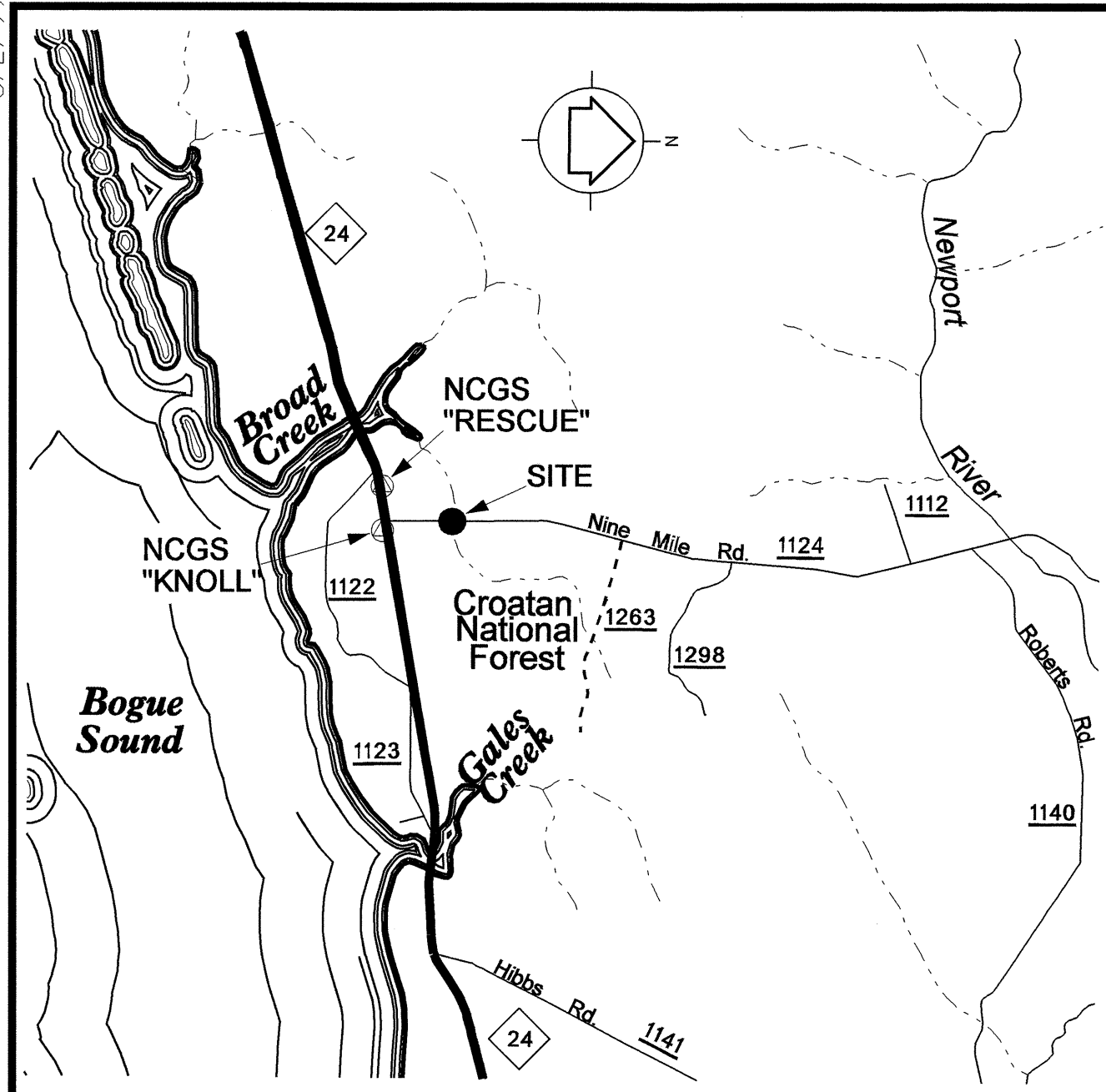
SANITARY SEWER:

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	□
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.

SURVEY CONTROL SHEET B-3625



VICINITY MAP

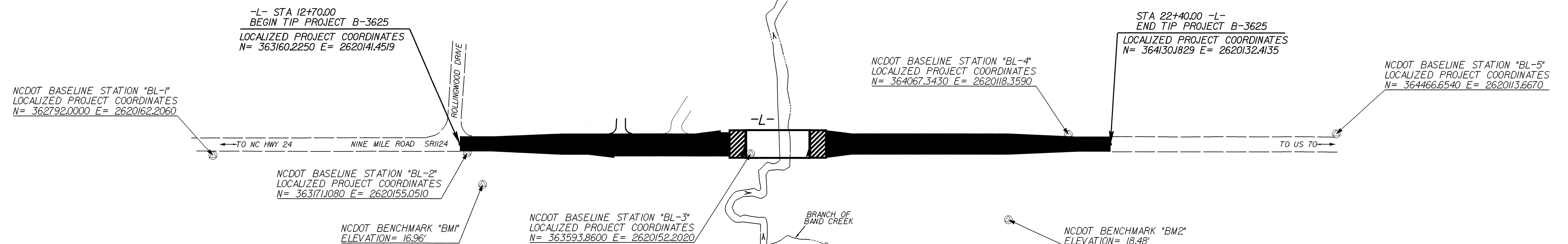
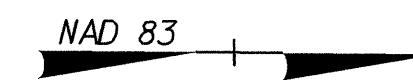
CONTROL DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	BL-1		362792.0000	2620162.2060	21.59	OUTSIDE PROJECT LIMITS	
2	BL-2		363171.1080	2620155.0510	15.72	12+80.76	13.70 RT
3	BL-3		363593.8600	2620152.2020	11.90	17+03.52	14.79 RT
4	BL-4		364067.3430	2620118.3590	20.70	21+77.29	14.64 LT
5	BL-5		364466.6540	2620113.6670	26.89	25+76.63	15.61 LT

BENCHMARK DATA

.....
 BM1 ELEVATION = 16.96
 N 363195 E 2620202
 L STATION 13+04 61 RIGHT
 RR SPIKE STAMPED BM1 SET IN 20 INCH PINE

 BM2 ELEVATION = 18.48
 N 363979 E 2620247
 L STATION 20+88 114 RIGHT
 RR SPIKE STAMPED BM2 SET IN 24 INCH PINE



NOTES:

1. 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/B3625](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project/B3625)

THE FILES TO BE FOUND ARE AS FOLLOWS:
 B3625_LS_CONTROL_060504.TXT

SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

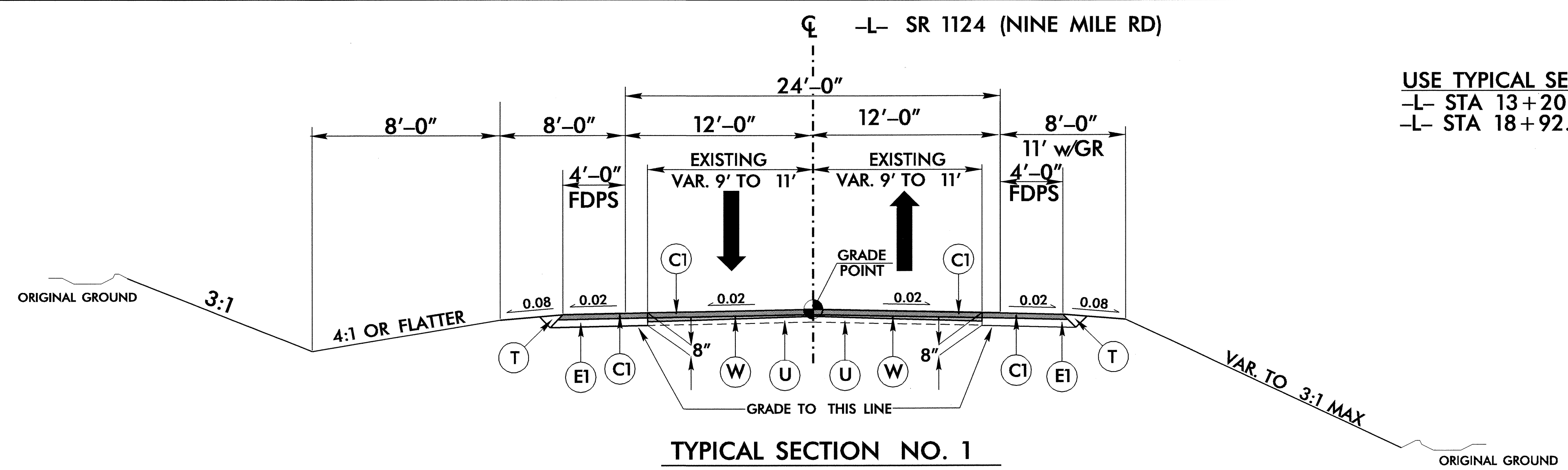
⊙ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
 PROJECT CONTROL ESTABLISHED USING EXISTING NCGS MONUMENTATION.

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "KNOLL"
 WITH NAD 1983 STATE PLANE GRID COORDINATES OF
 NORTHING: 361409.0738 (ft) EASTING: 2620461.1206 (ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999918317
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "KNOLL" TO -L- STATION 12+70.00 IS
 N 10°20'43.1 W 1780.0894 (ft)
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NGVD 29

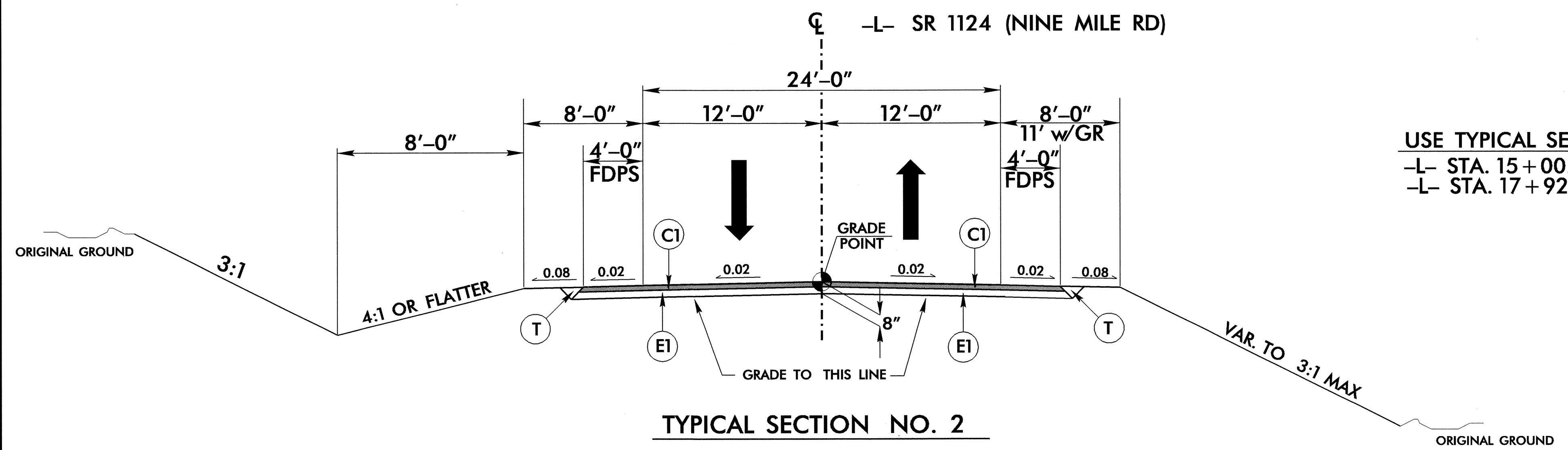
NOTE: DRAWING NOT TO SCALE

USE TYPICAL SECTION NO. 1 FOR
 -L- STA 13+20.00 TO 15+00.00
 -L- STA 18+92.00 TO 20+00.00



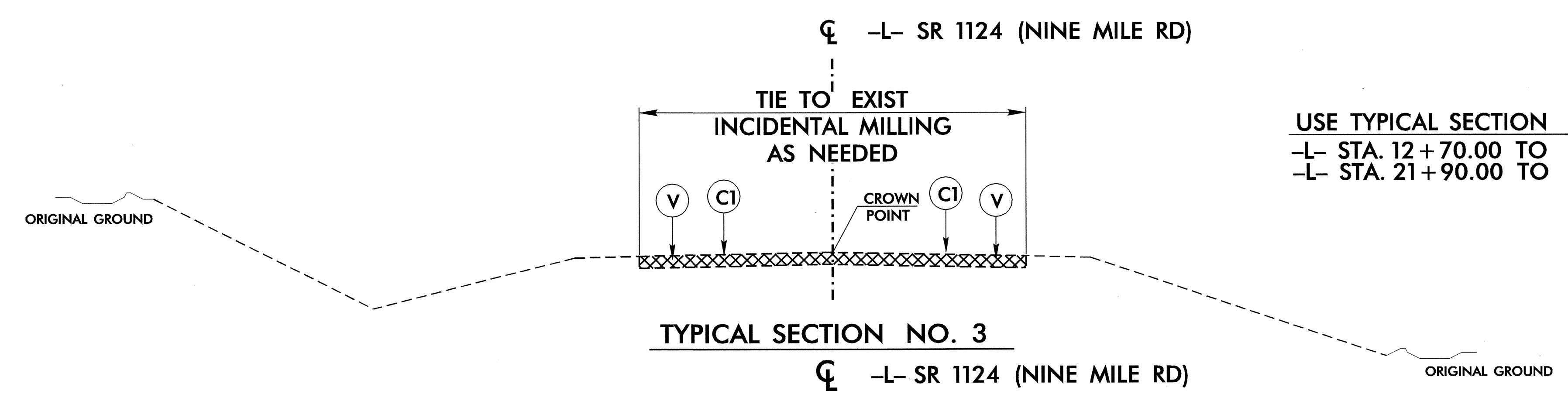
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 2 FOR
 -L- STA. 15+00.00 TO 16+96.00 (BEGIN BRIDGE)
 -L- STA. 17+92.00 (END BRIDGE) TO 20+00.00



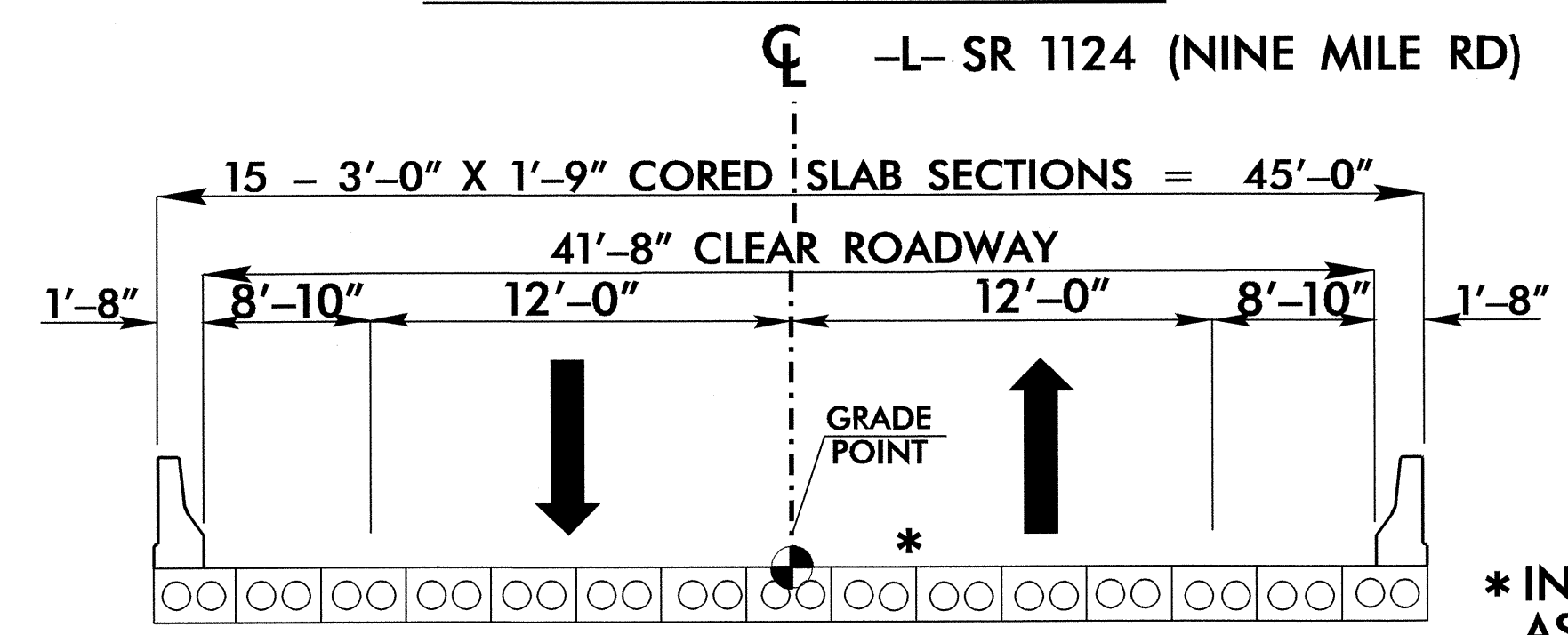
TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 3 FOR
 -L- STA. 12+70.00 TO 13+20.00
 -L- STA. 21+90.00 TO 22+40.00



TYPICAL SECTION NO. 3

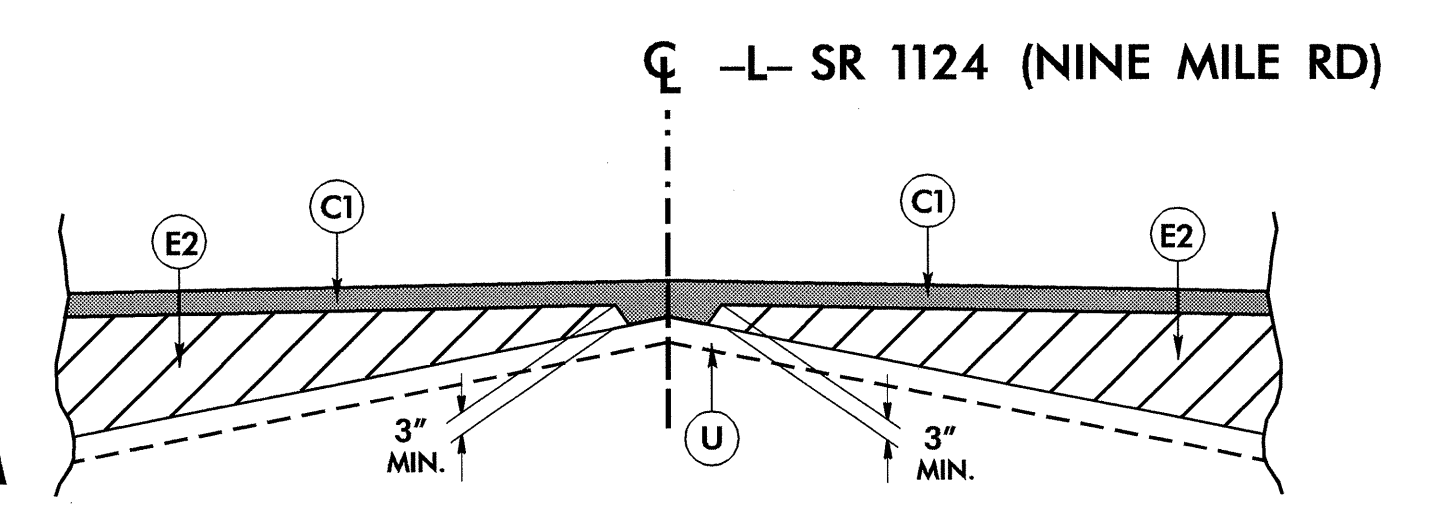
USE TYPICAL SECTION NO. 4 FOR
 -L- STA. 16+96.00 (BEGIN BRIDGE) TO
 -L- STA. 17+92.00 (END BRIDGE)



TYPICAL SECTION NO. 4

PAVEMENT SCHEDULE	
C1	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.
C2	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 1 1/2" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 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.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	INCIDENTAL MILLING.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING).

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



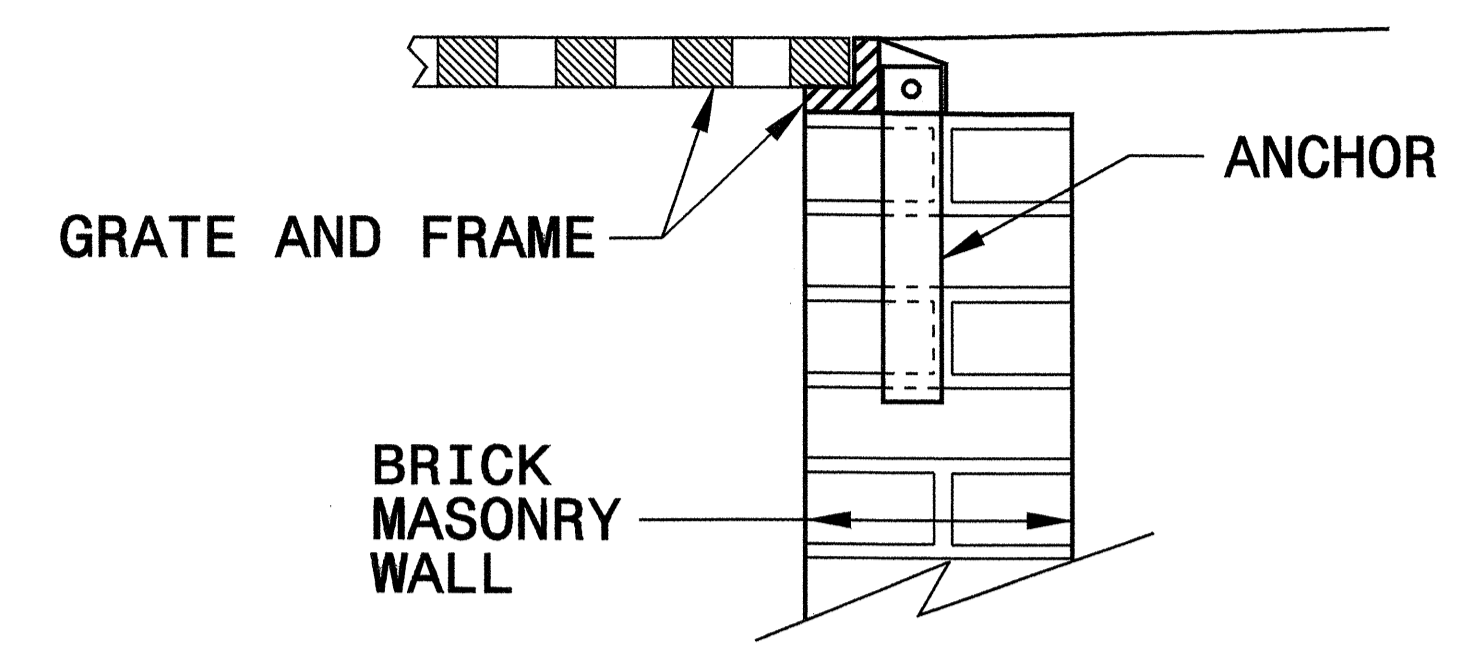
Detail Showing Method of Wedging

* INNOVATIVE RESEARCH AND DEPLOYMENT PROGRAM
 ASPHALT WEARING SURFACE NOT NEEDED OVER
 CORED SLAB BRIDGE

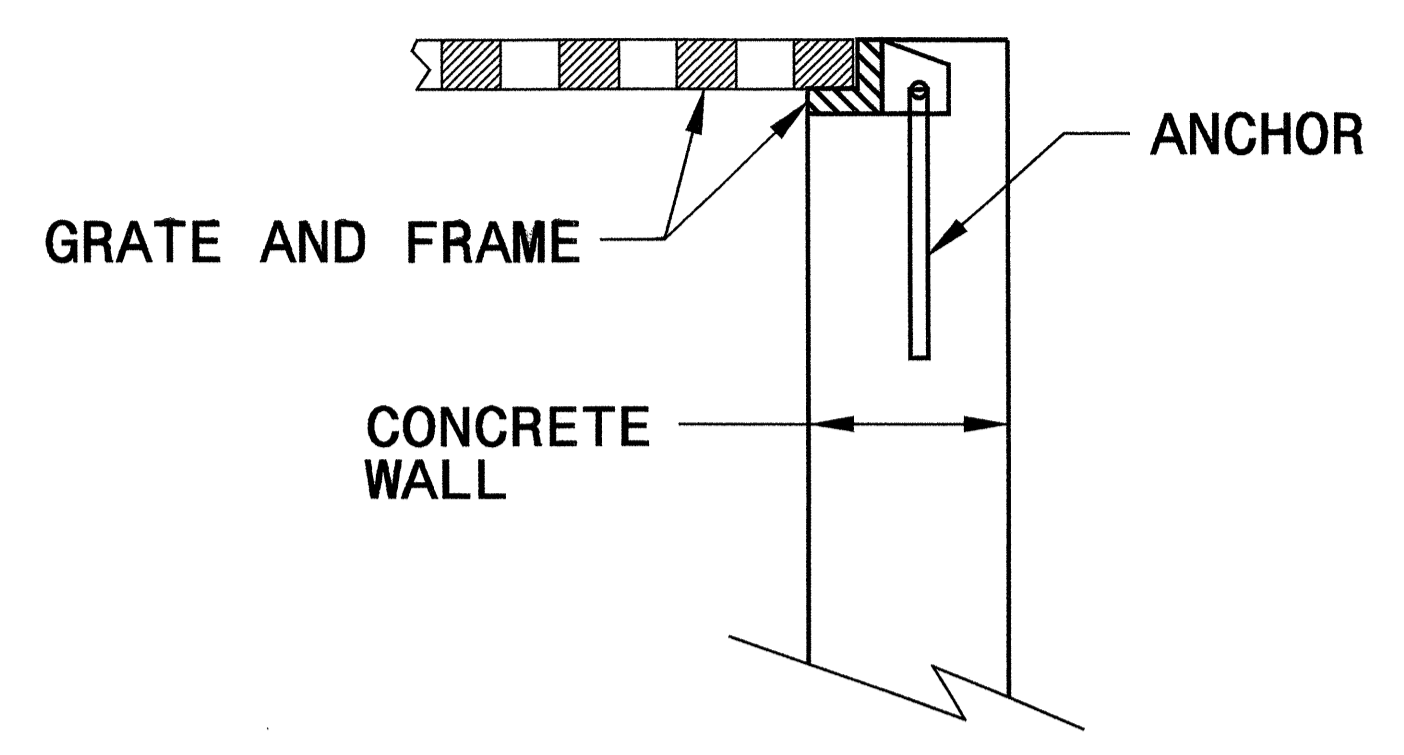
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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

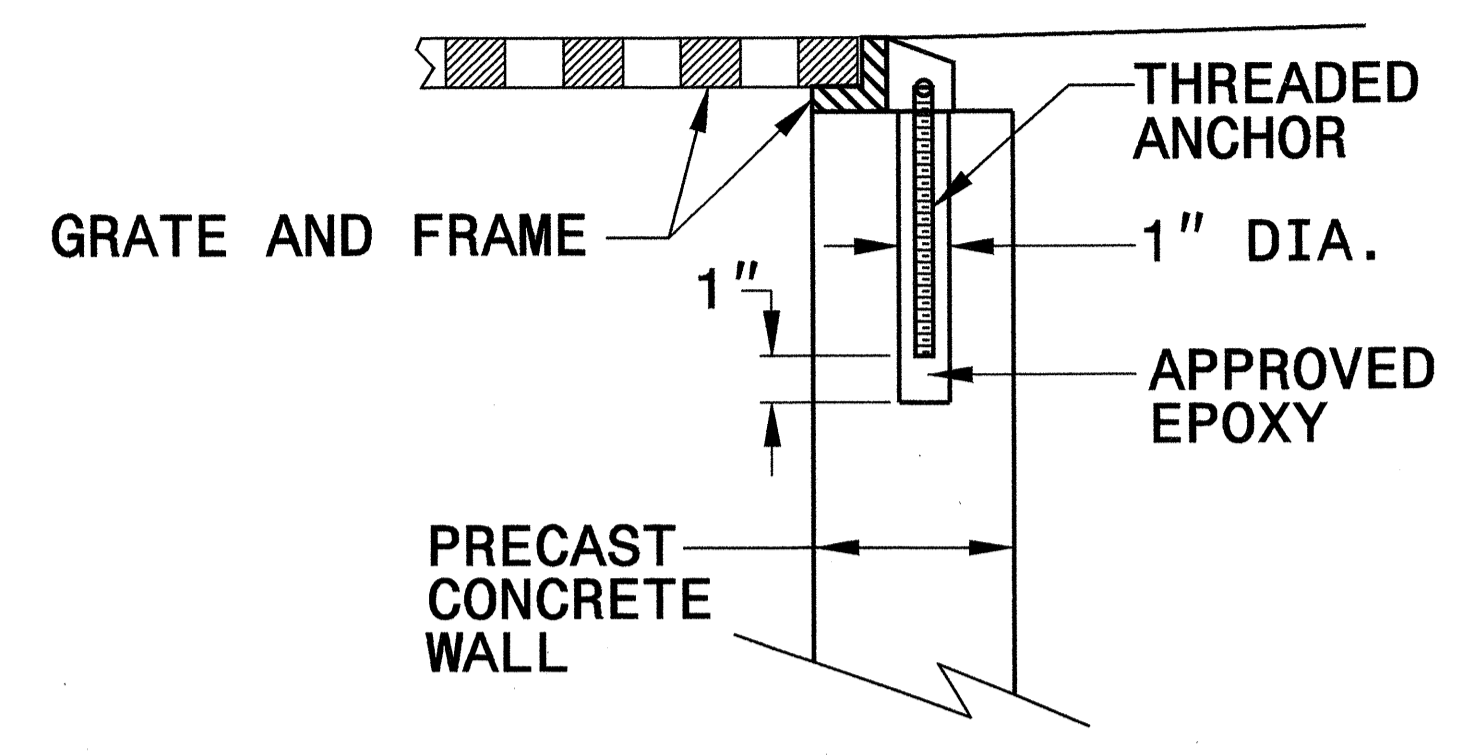
SHEET 1 OF 1
840D25



BRICK MASONRY CONSTRUCTION



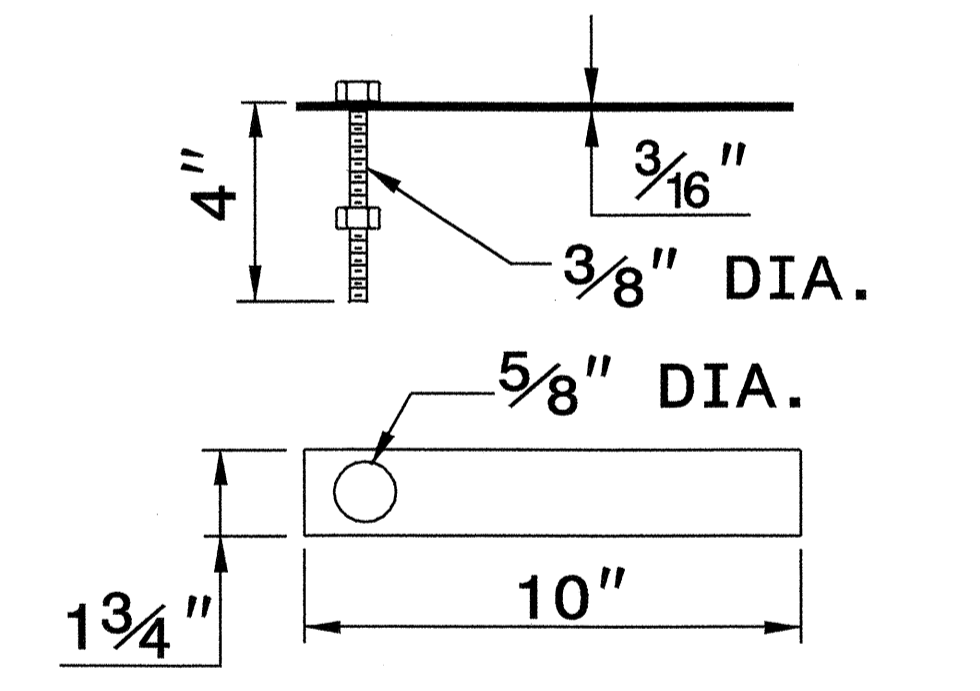
CONCRETE CONSTRUCTION



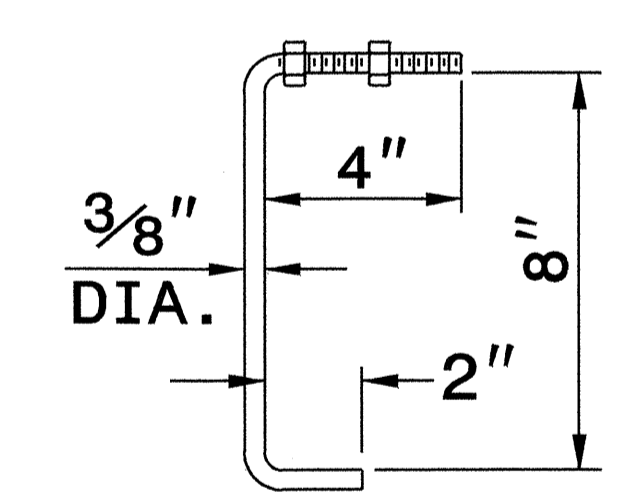
PRECAST CONCRETE CONSTRUCTION

DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

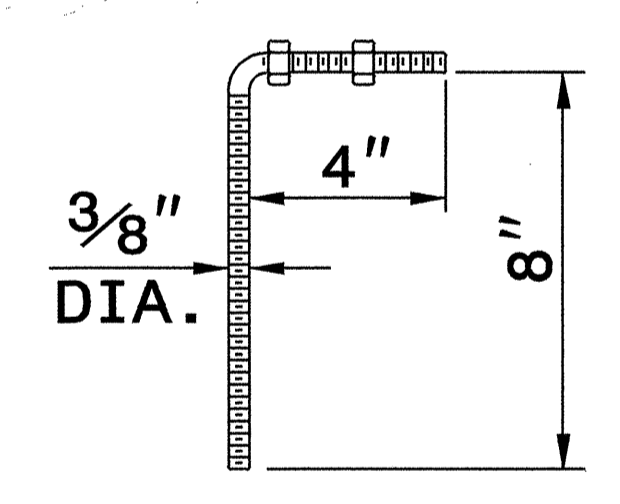
NOTE:
CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.



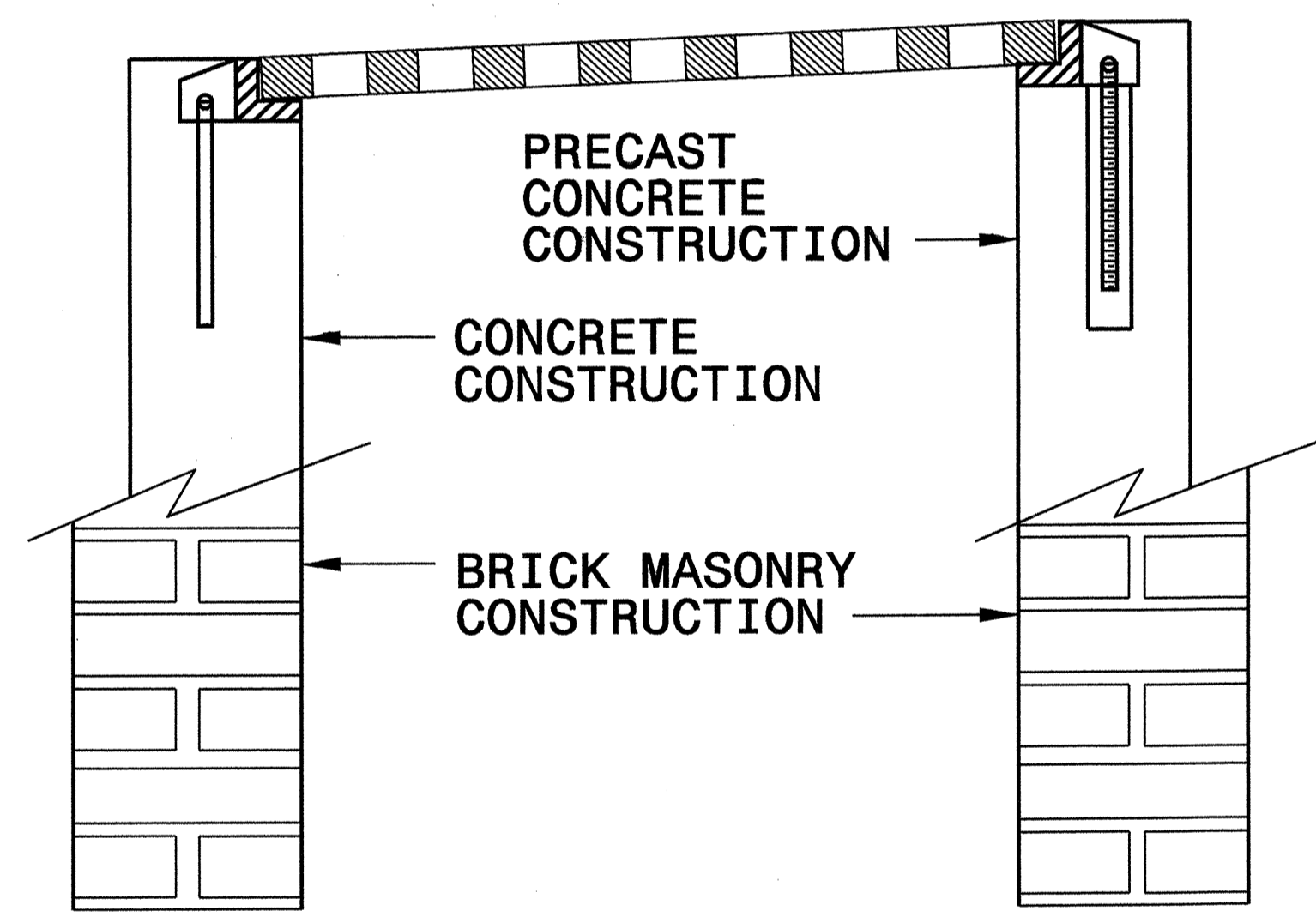
MASONRY ANCHOR
3/8" DIA. BOLT WITH PLATE



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

0:\MAE-2007\09\04\special details\erbar-d\stds\06\stds to special details\84025 anchorage for Frames\0840d25.dgn



**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.: _____

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
SUMMARY OF QUANTITIES

PROJECT REFERENCE NO. B-3625	SHEET NO. 3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C202081

ItemNumber	Sec #	Quantity	Unit	Description
000100000-N	800	Lump Sum		MOBILIZATION
000400000-N	801	Lump Sum		CONSTRUCTION SURVEYING
002900000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (17+44.00)
004300000-N	226	Lump Sum		GRADING
005000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING
005700000-E	226	200	CY	UNDERCUT EXCAVATION
013400000-E	240	20	CY	DRAINAGE DITCH EXCAVATION
019500000-E	265	200	CY	SELECT GRANULAR MATERIAL
019600000-E	270	100	SY	FABRIC FOR SOIL STABILIZATION
031800000-E	300	33	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
034400000-E	310	100	LF	18" SIDE DRAIN PIPE
036600000-E	310	204	LF	15" RC PIPE CULVERTS, CLASS III
099500000-E	340	59.1	LF	PIPE REMOVAL
122000000-E	545	100	TON	INCIDENTAL STONE BASE
133000000-E	607	255	SY	INCIDENTAL MILLING
148900000-E	610	675	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
151900000-E	610	492	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
156000000-E	620	59	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
228600000-N	840	3	EA	MASONRY DRAINAGE STRUCTURES
236700000-N	840	2	EA	FRAME WITH TWO GRATES, STD 840.29
239600000-N	840	1	EA	FRAME WITH COVER, STD 840.54
255600000-E	846	190	LF	SHOULDER BERM GUTTER
303000000-E	862	600	LF	STEEL BM GUARDRAIL
315000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS
327000000-N	SP	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350

ItemNumber	Sec #	Quantity	Unit	Description
331700000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77
364900000-E	876	10	TON	RIP RAP, CLASS B
365600000-E	876	213	SY	FILTER FABRIC FOR DRAINAGE
402500000-E	901	16.25	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (E)
408200000-E	903	40	LF	SUPPORTS, WOOD
410200000-N	904	3	EA	SIGN ERECTION, TYPE E
415800000-N	907	9	EA	DISPOSAL OF SIGN SYSTEM, WOOD
440000000-E	1110	316	SF	WORK ZONE SIGNS (STATIONARY)
441000000-E	1110	210	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
443000000-N	1130	16	EA	DRUMS
444500000-E	1145	168	LF	BARRICADES (TYPE III)
468500000-E	1205	1,940	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
468600000-E	1205	1,940	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
490000000-N	1251	13	EA	PERMANENT RAISED PAVEMENT MARKERS
600000000-E	1605	625	LF	TEMPORARY SILT FENCE
600600000-E	1610	50	TON	STONE FOR EROSION CONTROL, CLASS A
600900000-E	1610	85	TON	STONE FOR EROSION CONTROL, CLASS B
601200000-E	1610	45	TON	SEDIMENT CONTROL STONE
601500000-E	1615	1	ACR	TEMPORARY MULCHING
601800000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
602100000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
602400000-E	1622	190	LF	TEMPORARY SLOPE DRAINS
602700000-N	1622	6	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
602900000-E	SP	250	LF	SAFETY FENCE

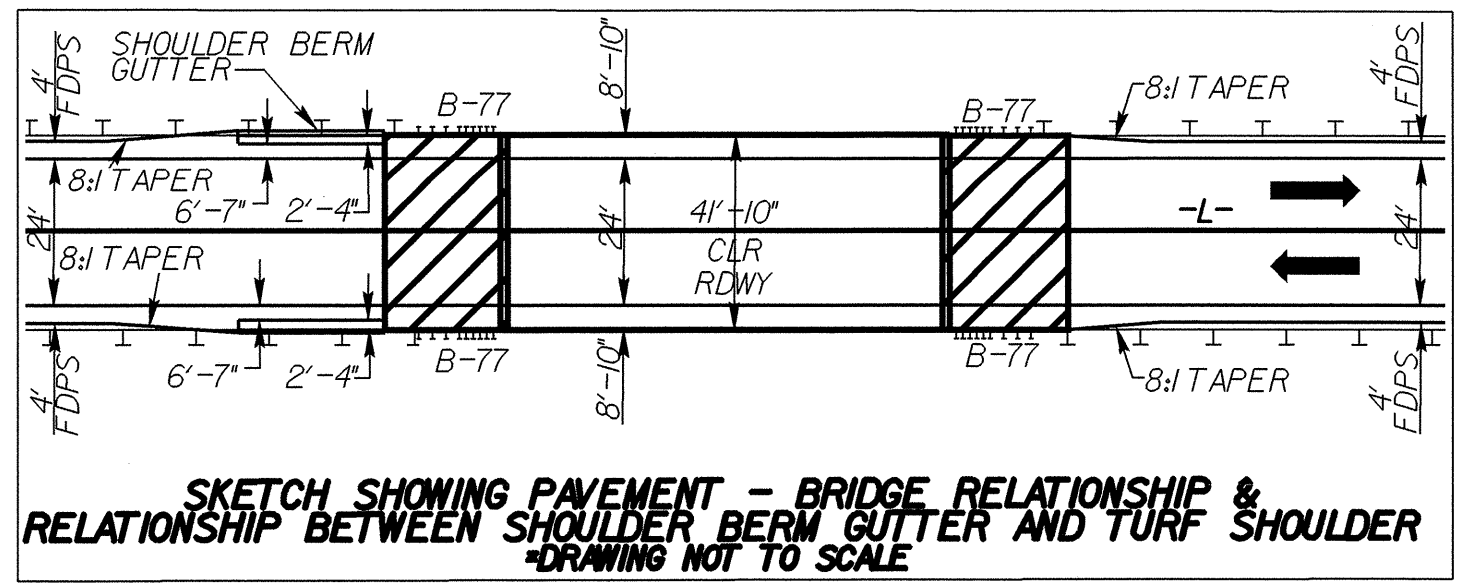
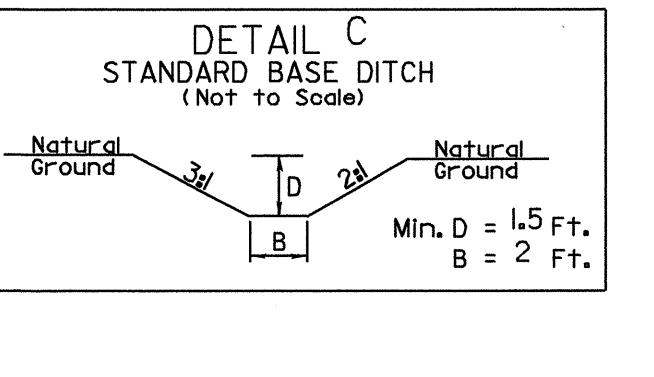
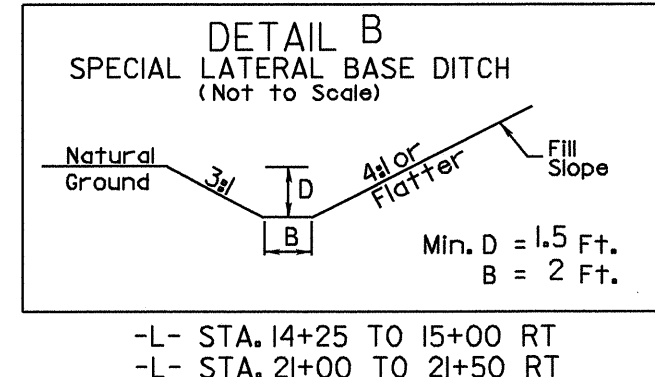
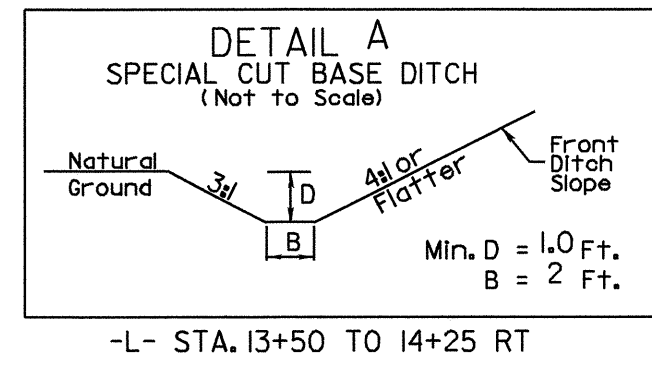
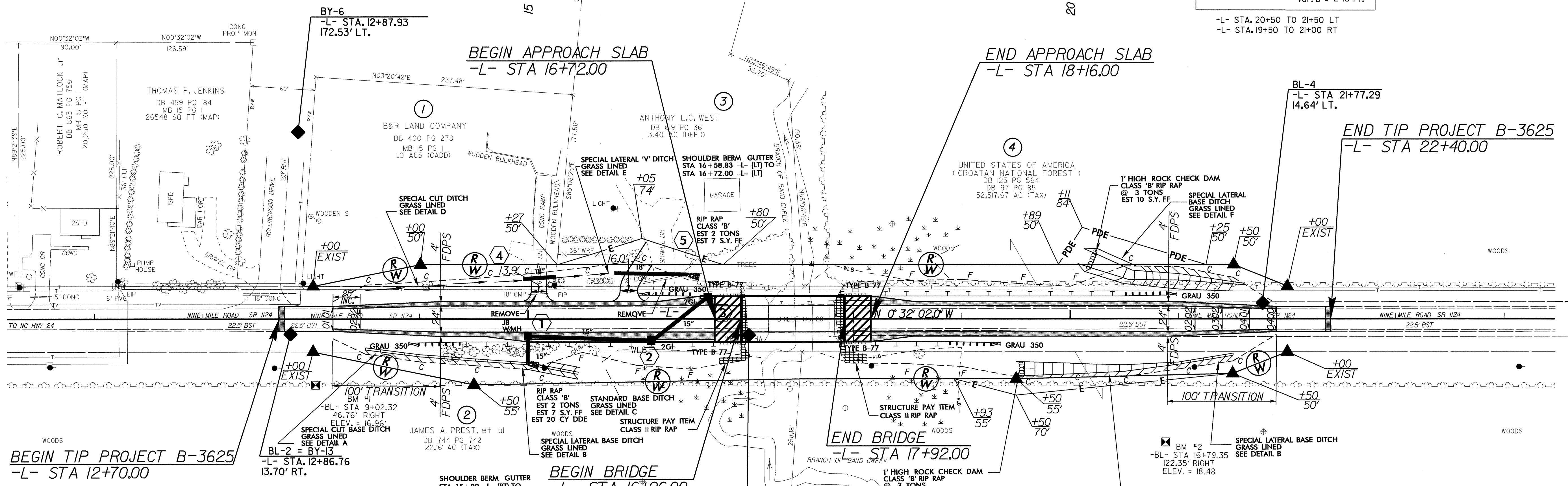
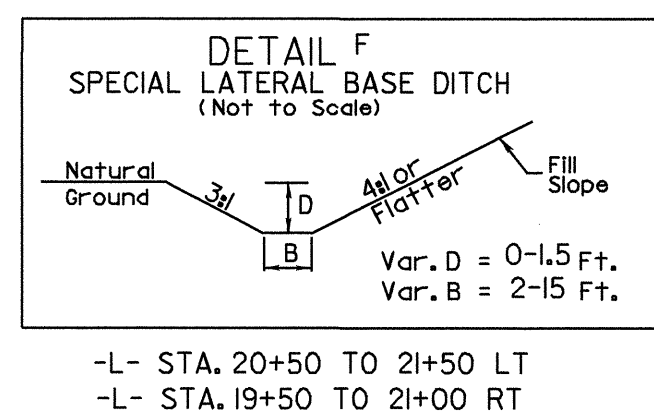
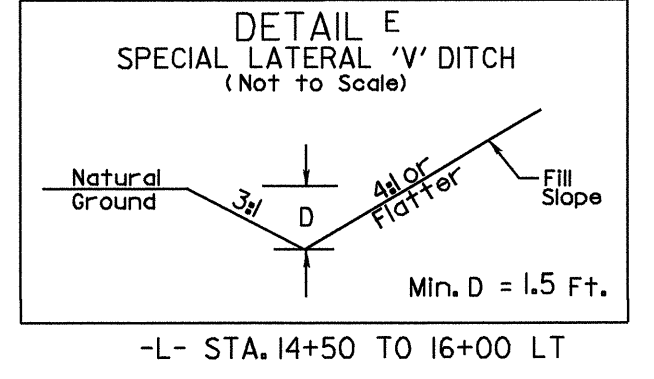
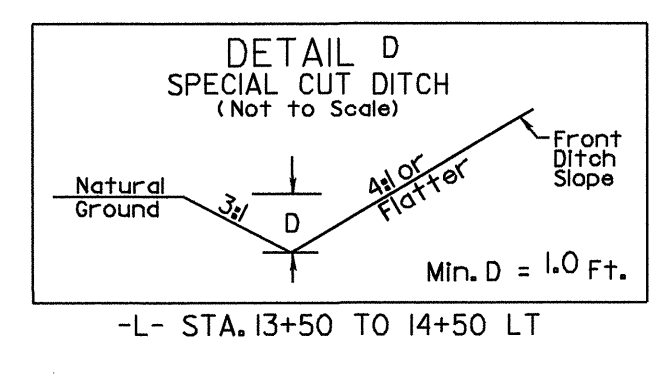
ItemNumber	Sec #	Quantity	Unit	Description
603000000-E	1630	225	CY	SILT EXCAVATION
603600000-E	1631	1,300	SY	MATTING FOR EROSION CONTROL
603700000-E	SP	20	SY	COIR FIBER MAT
604200000-E	1632	100	LF	1/4" HARDWARE CLOTH
604800000-E	SP	150	SY	FLOATING TURBIDITY CURTAIN
607103000-E	SP	100	LF	COIR FIBER BAFFLES
607105000-E	SP	3	EA	*** SKIMMER (1-1/2")
608400000-E	1660	1.5	ACR	SEEDING & MULCHING
608700000-E	1660	1	ACR	MOWING
609000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
609300000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
609600000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
610800000-E	1665	1	TON	FERTILIZER TOPDRESSING
611400000-N	SP	2	HR	SPECIALIZED HAND MOWING
611700000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL

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PROJECT REFERENCE NO. B-3625	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL BRYAN B. PAYNE, JR. 1-2-08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL MARC T. SHOW 1-2-08



PAVED SHOULDER

NOTE:
ALL DRIVE WAY RADII ARE 10'.

NOTES:
SEE SHEET 5 FOR -L- PROFILE
SEE SHEET S-1 THRU S-22 FOR STRUCTURE PLANS.

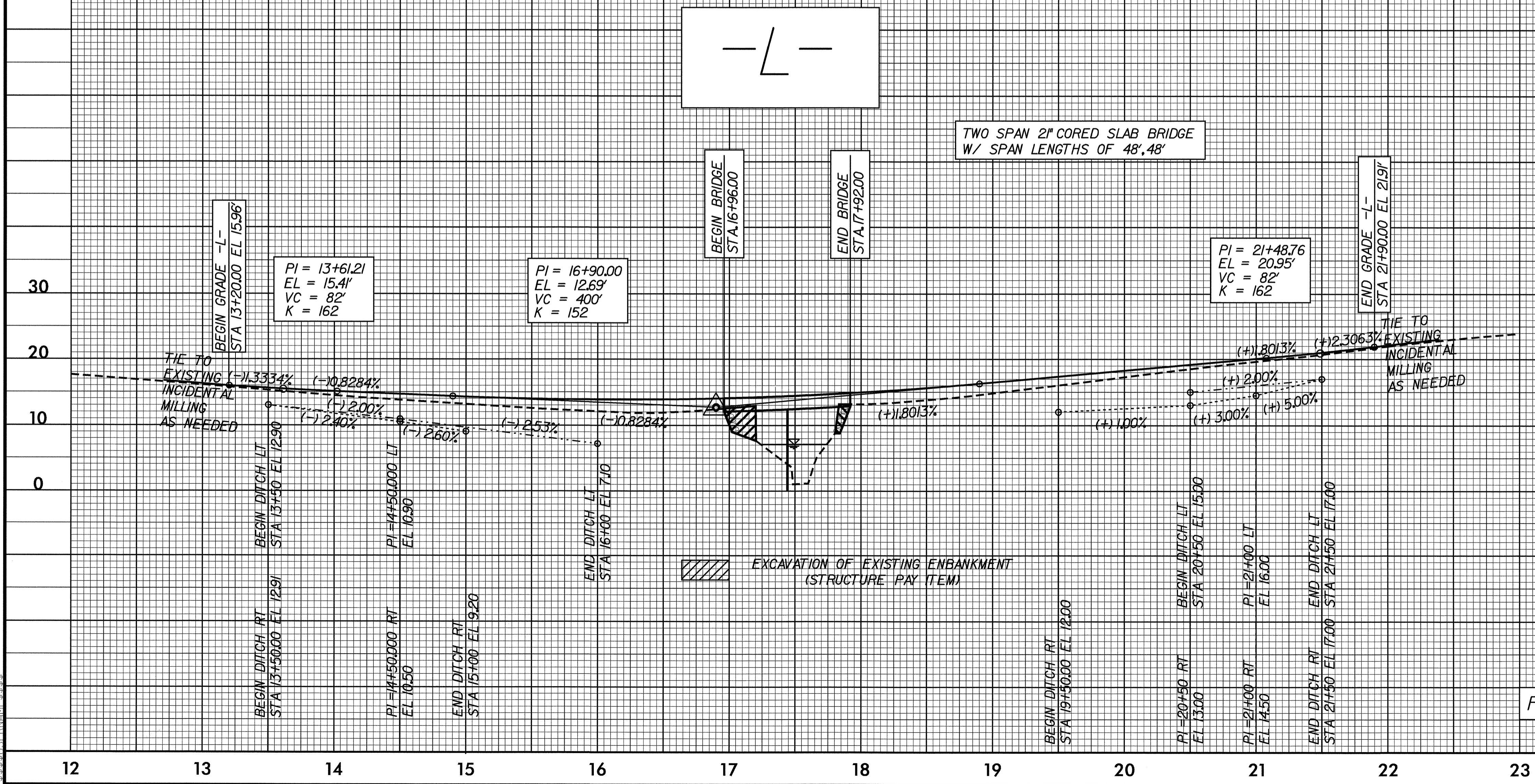
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PROJECT REFERENCE NO. B-3625	SHEET NO. 5
ROADWAY DESIGN ENGINEER BRUCE B. PAYNE, R. SEAL 22610	HYDRAULICS ENGINEER MARC T. SHOWN SEAL 20870
1-9-08	

BENCHMARKS FOR B-3625		
BENCHMARK	DESCRIPTION	ELEVATION
BM 1	R / R SPIKE STAMPED "BM 1" SET IN 20" PINE TREE -BL- 9+02.32, 46.76' RT (-L- STA. 13+03.78 60.52' RT)	16.96'
BM 2	R / R SPIKE STAMPED "BM 2" SET IN 24" PINE TREE -BL- 16+79.35, 122.35' RT (-L- STA. 20+89.79 113.50' RT)	18.48'

STRUCTURE HYDRAULIC DATA	
DESIGN DISCHARGE	= 548 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 7.0 FT
BASE DISCHARGE	= 693 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 7.69 FT
OVERTOPPING DISCHARGE	= 4200 CFS
OVERTOPPING FREQUENCY	= 500 YRS
OVERTOPPING ELEVATION	= 13.82 FT



LEGEND	
-----	DITCH RT.
.....	DITCH LT.

FOR -L- ALIGNMENT SEE SHEET 4