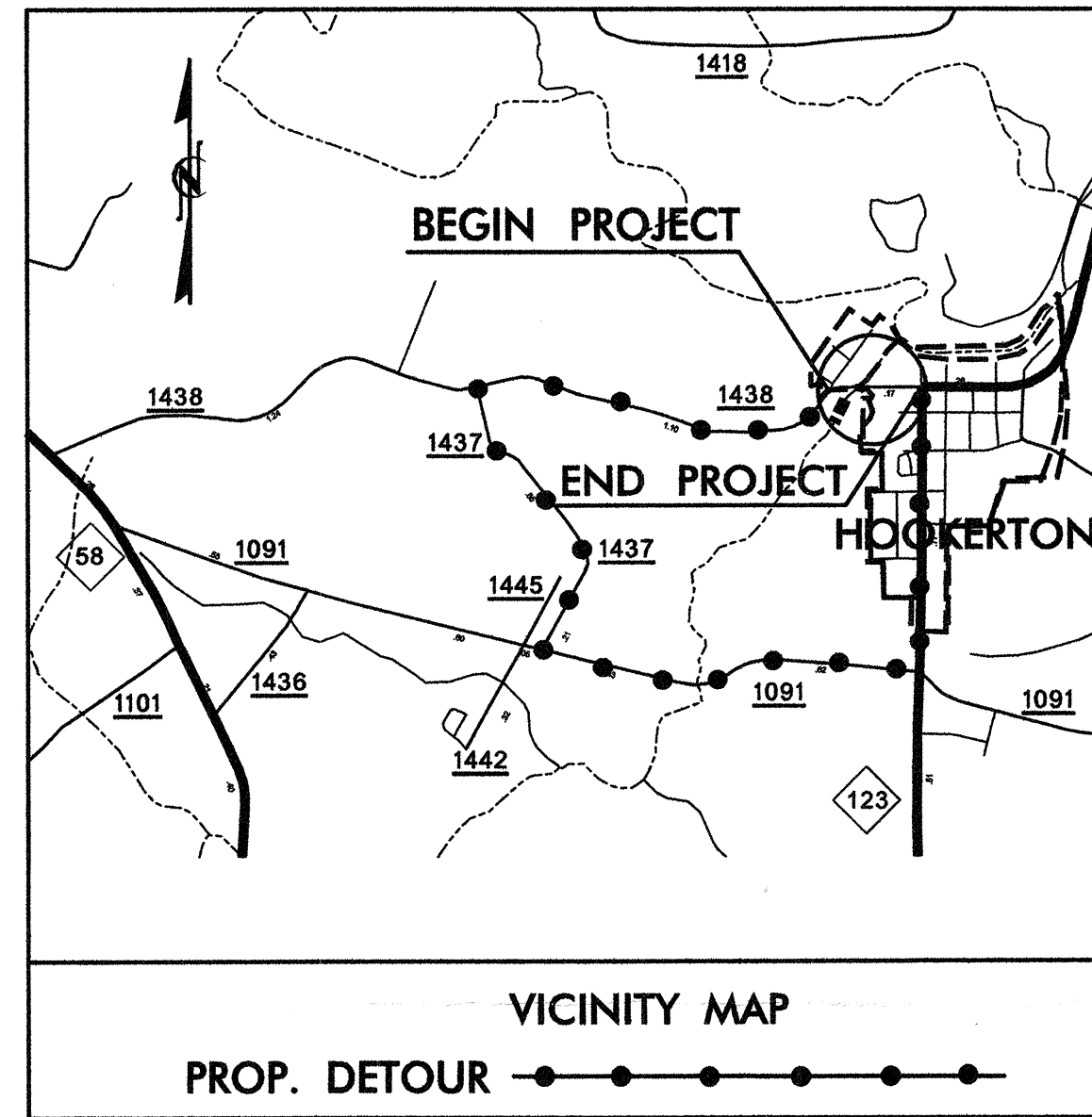


09/08/99

TIP PROJECT: B-4127

CONTRACT: C201639

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



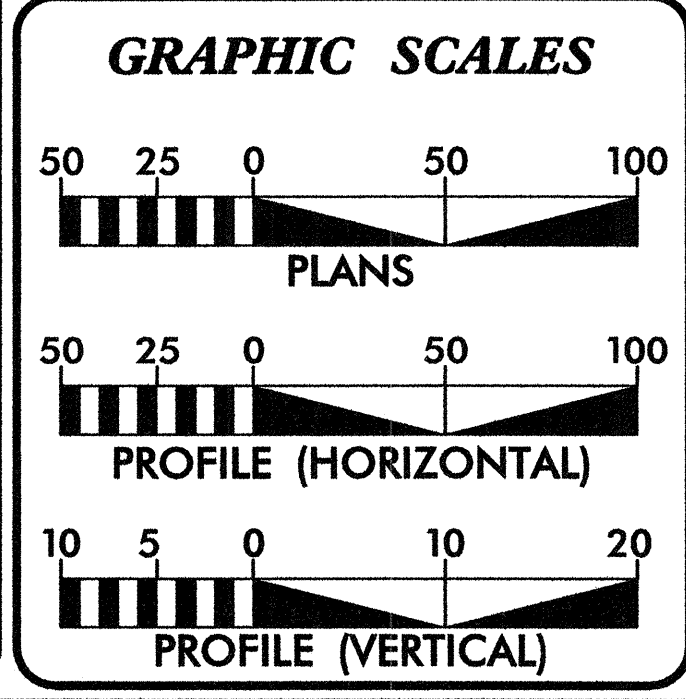
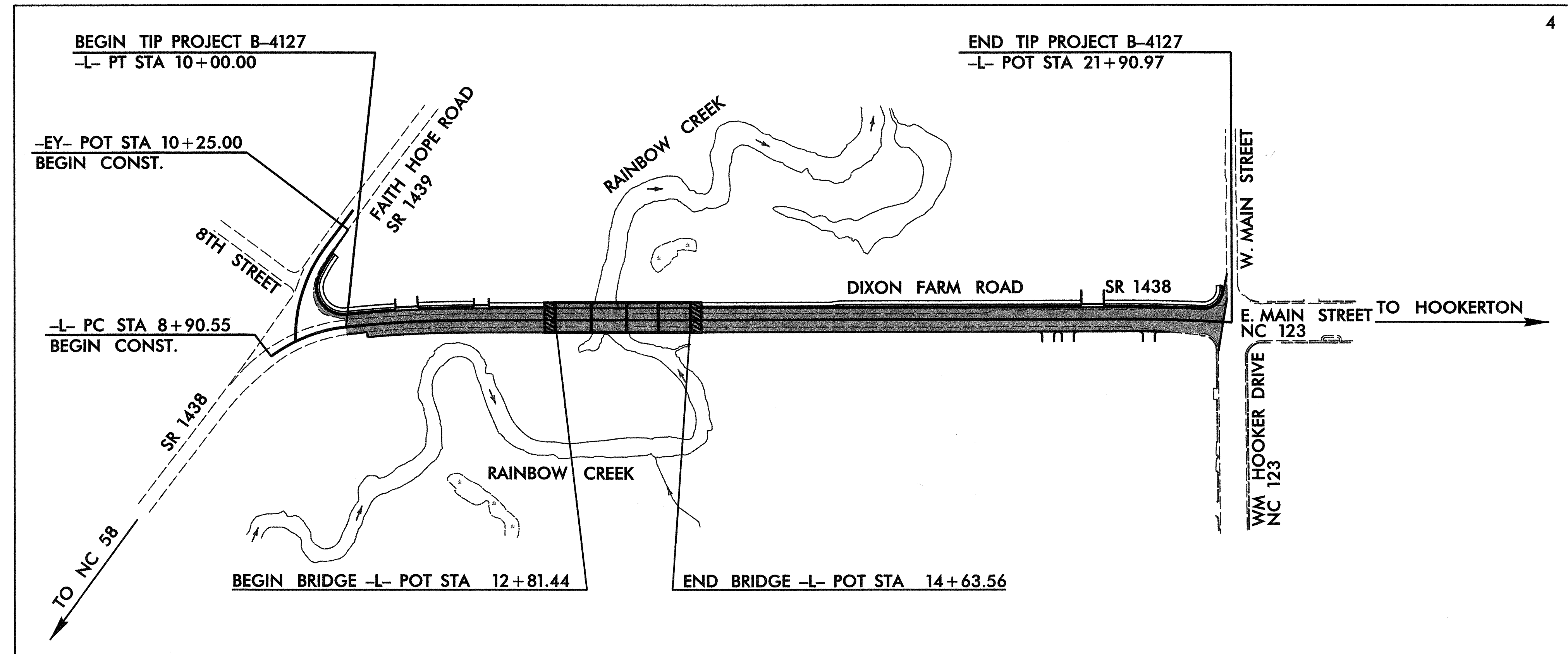
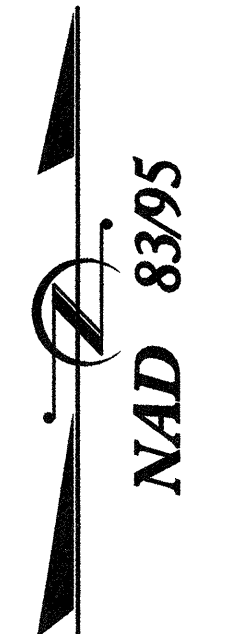
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GREENE COUNTY

LOCATION: BRIDGE NO. 43 OVER RAINBOW CREEK
ON SR 1438

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4127	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33480.1.1	BRZ-1438(5)	PE	
33480.2.1	BRZ-1438(5)	R/W & UTIL	
33480.3.1	BRZ-1438(5)	CONST	



DESIGN DATA

ADT 2007 =	2000
ADT 2027 =	3300
DHV =	10 %
D =	60 %
T =	4 % *
V =	40 MPH
FUNC CLASS =	LOCAL
* TTST	2% + DUAL 2%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4127 =	0.191 MILES
LENGTH STRUCTURE TIP PROJECT B-4127 =	0.034 MILES
TOTAL LENGTH TIP PROJECT B-4127 =	0.225 MILES

NCDOT CONTACT: CATHY S. HOUSER, PE
PROJECT ENGINEER

Prepared in the Office of:

FLORENCE & HUTCHESON, INC.
CONSULTING ENGINEERS
400 WESTCHASE BLVD., SUITE 475
RALEIGH, NC 27607

FOR THE NORTH CAROLINA DEPT. OF TRANSPORTATION

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: SEPTEMBER 28, 2005

LETTING DATE: MAY 15, 2007

CLAUDETTE M.K. ROQUE, PE
PROJECT ENGINEER

HENRY BARE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

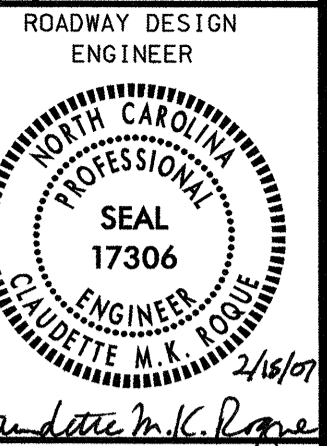
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Art McMillan P.E.
STATE DESIGN ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED
DIVISION ADMINISTRATOR

DATE



EFF. 07-18-06

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	ANCHORAGE FOR FRAMES DETAIL
3	SUMMARY OF QUANTITIES
3-A	DRAINAGE SUMMARY
3-B	GUARDRAIL SUMMARY SUMMARY OF EARTHWORK SUMMARY OF PAVEMENT REMOVAL
4	PLAN
5	PROFILE
TCP-1 THRU TCP-4	TRAFFIC CONTROL PLANS
PM-1	PAVEMENT MARKING PLANS
EC-1 THRU EC-4	EROSION CONTROL PLANS
RF-1	REFORESTATION PLAN
SIGN-1 THRU SIGN-4	SIGNING PLANS
UD-1	UTILITY BY OTHERS (CONFLICT) PLAN
X	CROSS-SECTION SUMMARY
X-1 THRU X-4	CROSS-SECTIONS
S-1 THRU S-32	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.

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.

UNDERDRAINS:
UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 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.

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, EMBARK, TOWN OF HOOKERTON, AND NEW WAVE CABLE.
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

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

WHEELCHAIR RAMPS:
WHEELCHAIR RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. THE CONSTRUCTION OF ALL WHEELCHAIR RAMPS SHALL BE IN ACCORDANCE WITH DETAILS IN PLANS.

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 8 - INCIDENTALS	
815.03	Pipe Underdrain and Blind Drain
816.04	Markers for Drainage Structure and Concrete Pad
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
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
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.45	Precast Drainage Structure
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
848.01	Concrete Sidewalk
848.02	Driveway Turnout - Radius Type
848.05	Wheelchair Ramp - Curb Cut
848.06	Wheelchair Ramp - Retrofitting of Existing Curb
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets

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	①②③
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.*)	-----

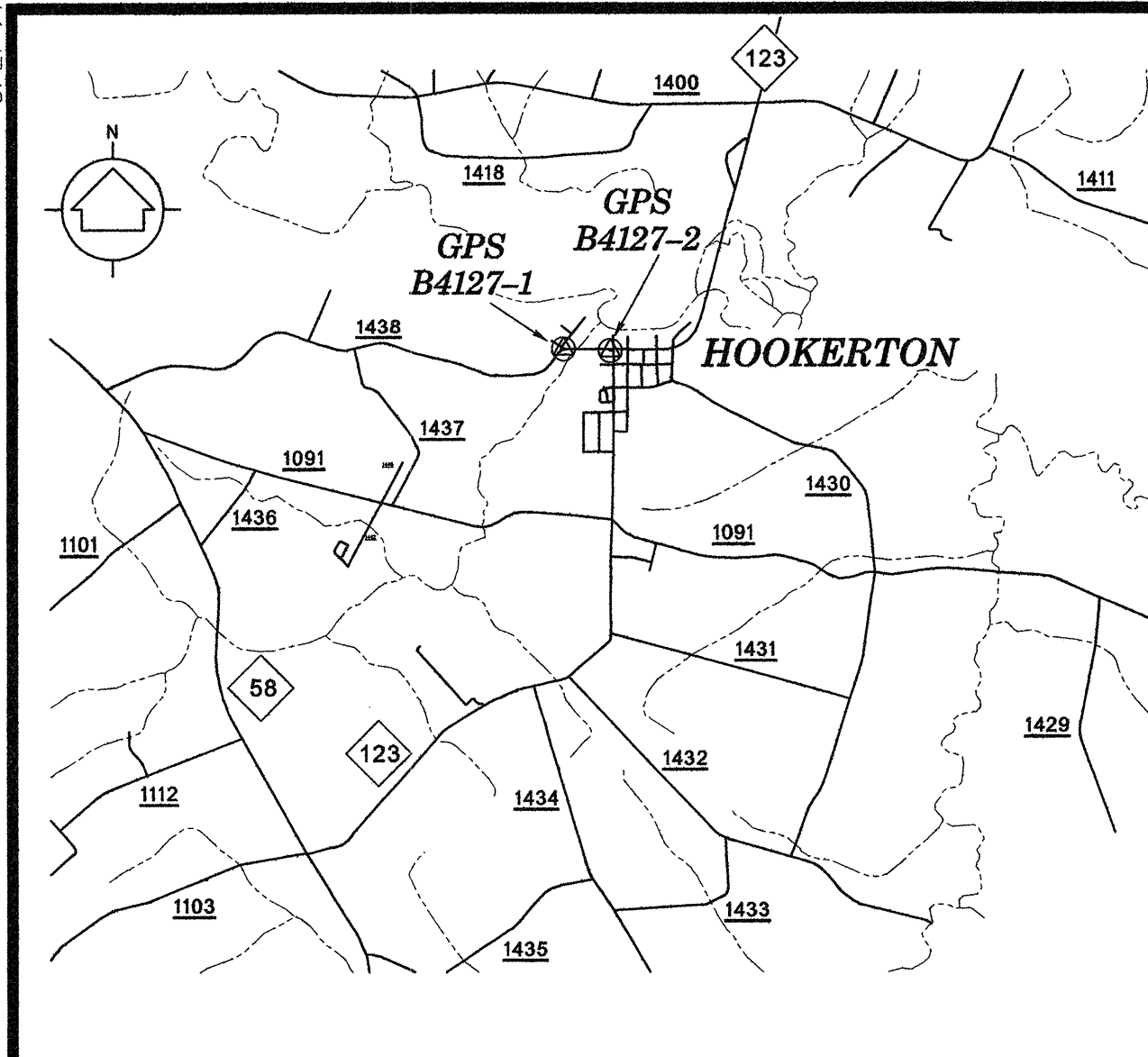
MISCELLANEOUS:

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.

6/2/09

SURVEY CONTROL SHEET B-4127

PROJECT REFERENCE NO.	SHEET NO.
B-4127	I-C
Location and Surveys	



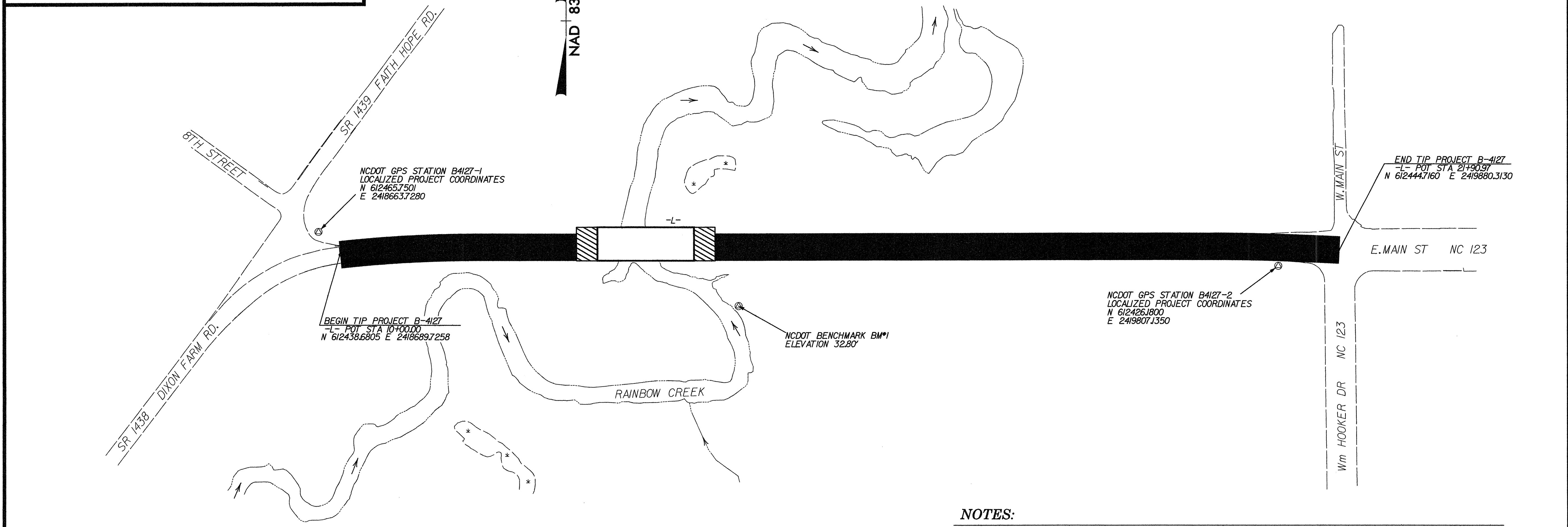
VICINITY MAP

CONTROL DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1		BL-1	612189.1290	2418372.5480	36.80	OUTSIDE PROJECT LIMITS	
2		GPS B4127-1	612465.7501	2418663.7280	38.73	OUTSIDE PROJECT LIMITS	
3		BL-3	612433.2340	2419101.2980	31.02	14+11.86	14.66 RT
4		BL-4	612414.6530	2419446.8580	32.39	17+57.39	33.80 RT
5		GPS B4127-2	612426.1800	2419807.1350	48.82	21+18.44	21.52 RT

BENCHMARK DATA

.....
 BM1 ELEVATION = 32.80
 N 612378 E 2419164
 L STATION 14+75 69 RIGHT
 RR SPIKE SET IN 22' OAK TREE



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS B4127-1"
 WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF
 NORTHING: 612465.7501 (ft) EASTING: 2418663.7280 (ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999875280
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS B4127-1" TO -L- STATION 10+00.00 IS
 S 43°50'35.4" E 37.532 (ft)
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

NOTES:

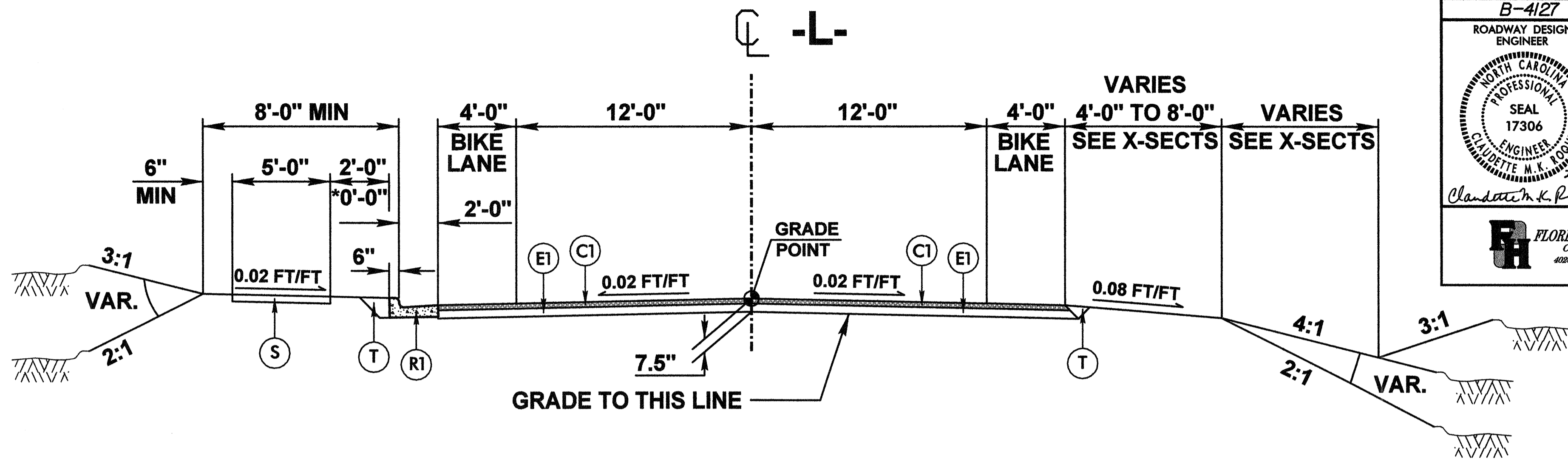
- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project)
 FILE: b4127_ls_control_050505.txt
- SITE CALIBRATION INFORMATION 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 USER SERVICE (OPUS)

NOTE: DRAWING NOT TO SCALE

6/2/99

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 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 TO EXCEED 1 1/2" IN DEPTH.
E1	PROP. APPROX. 4 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
R1	2'-6" CONCRETE CURB AND GUTTER.
R2	SHOULDER BERM GUTTER.
S	4" CONCRETE SIDEWALK.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

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

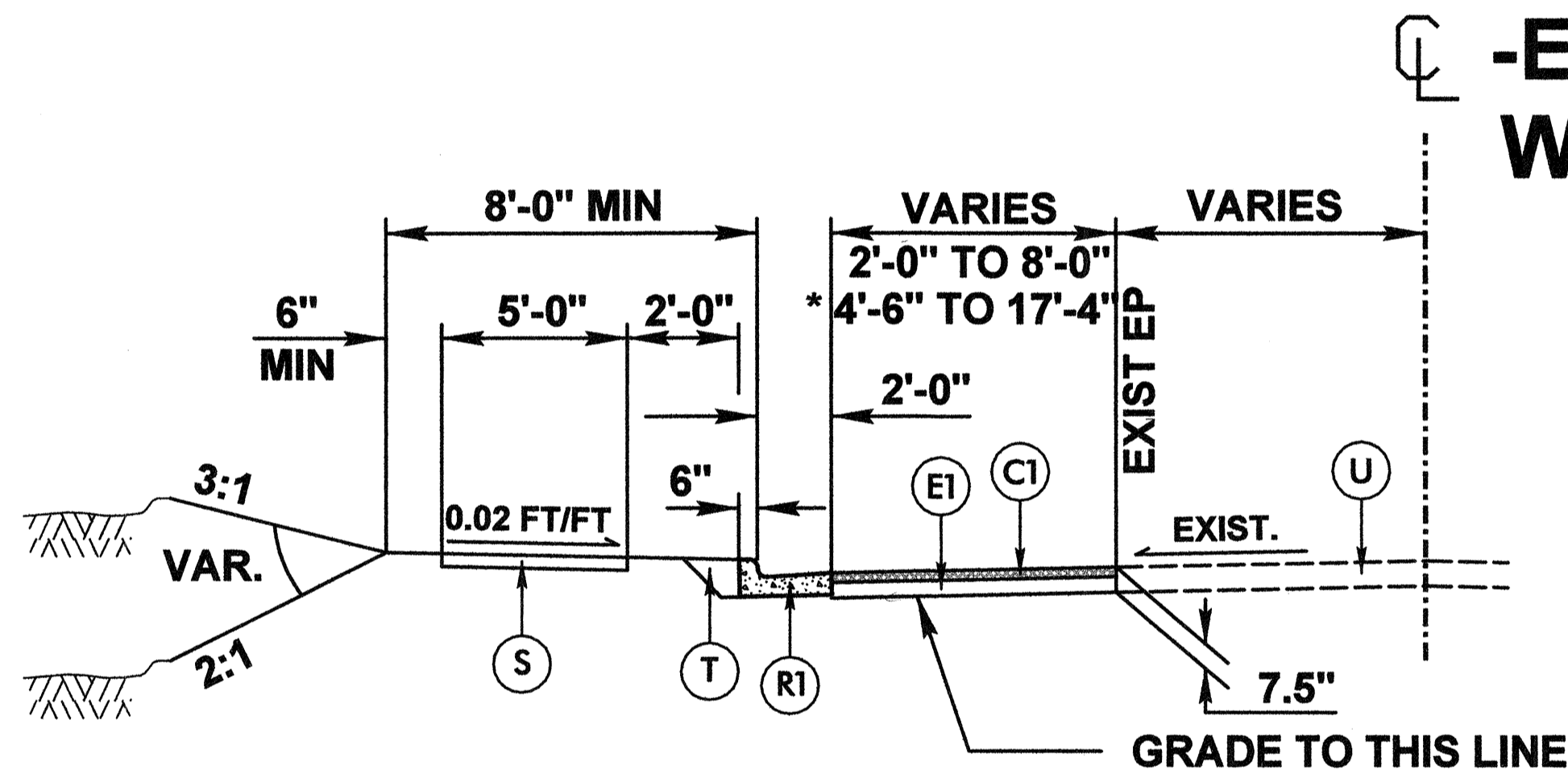


TYPICAL SECTION NO. 1

-L- (LT) STA 10+00.00 TO STA 12+81.44 (BEGIN BRIDGE)
 -L- (RT) STA 10+27.64 TO STA 12+81.44 (BEGIN BRIDGE)
 -L- (LT) STA 14+63.56 (END BRIDGE) TO STA 21+79.38
 -L- (RT) STA 14+63.56 (END BRIDGE) TO STA 21+79.38
 *-L- (LT) STA 11+92.16 TO STA 16+50.00

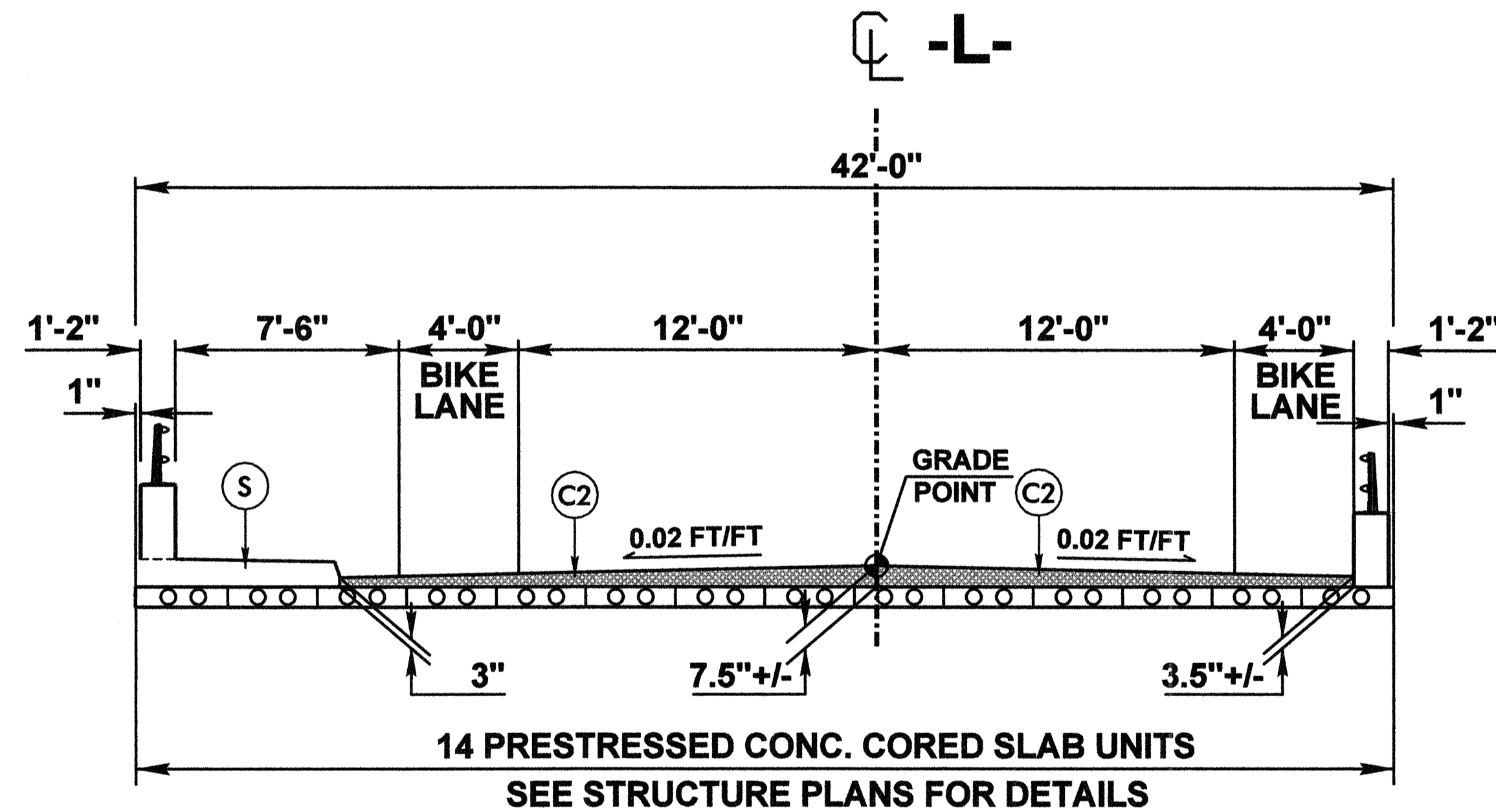
NOTE: NO BIKE LANE FROM -L- (RT) STA 10+00.00 TO STA 10+27.64

PROJECT REFERENCE NO. B-4127	SHEET NO. 2
ROADWAY DESIGN ENGINEER <i>Claudette M.K. Rogge</i> SEAL 17306	PAVEMENT DESIGN ENGINEER <i>Chris S. Morrison</i> SEAL 22896
PLANS PREPARED BY: FLORENCE & HUTCHESON, INC. CONSULTING ENGINEERS 4020 WESTCHASE BLVD., SUITE 475 RALEIGH, NC 27607	

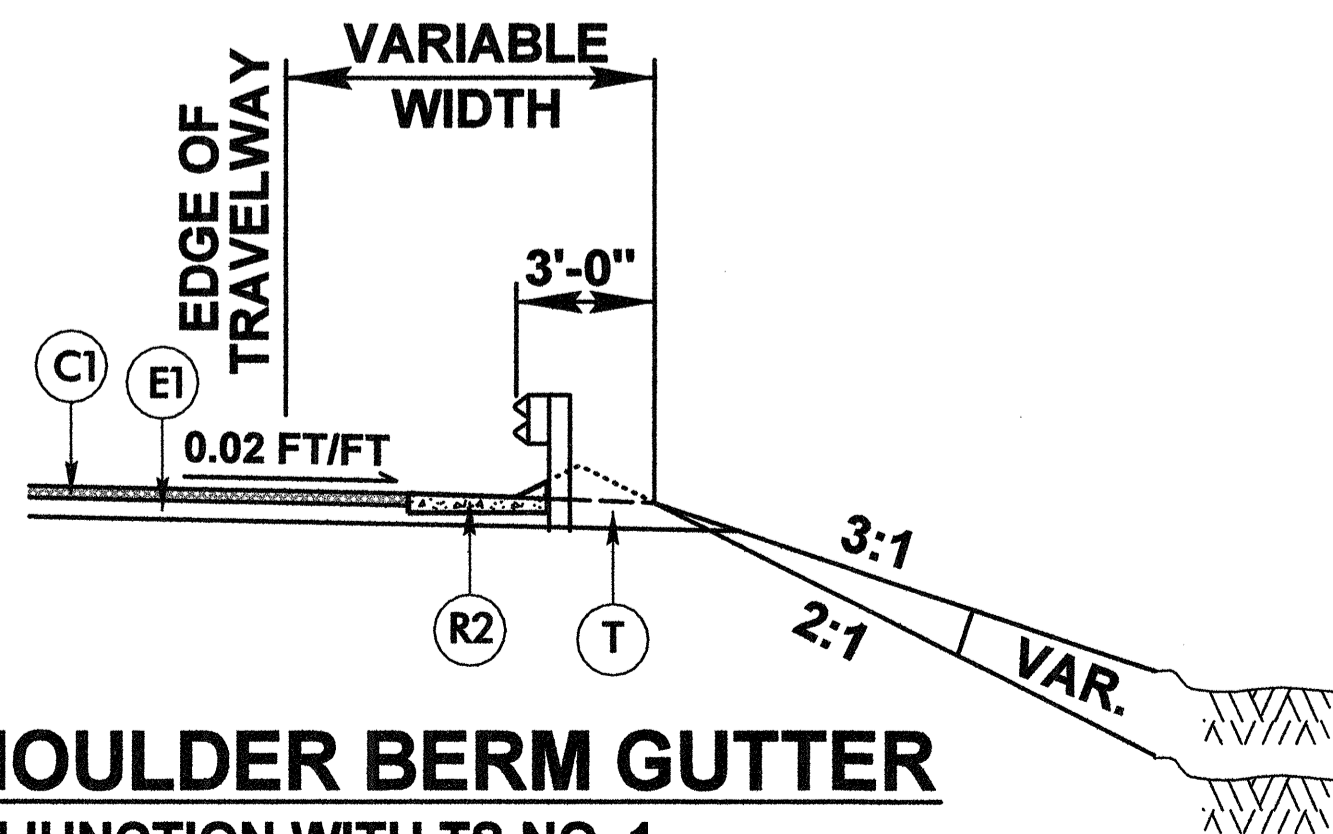


PARTIAL TYPICAL SECTION NO. 2

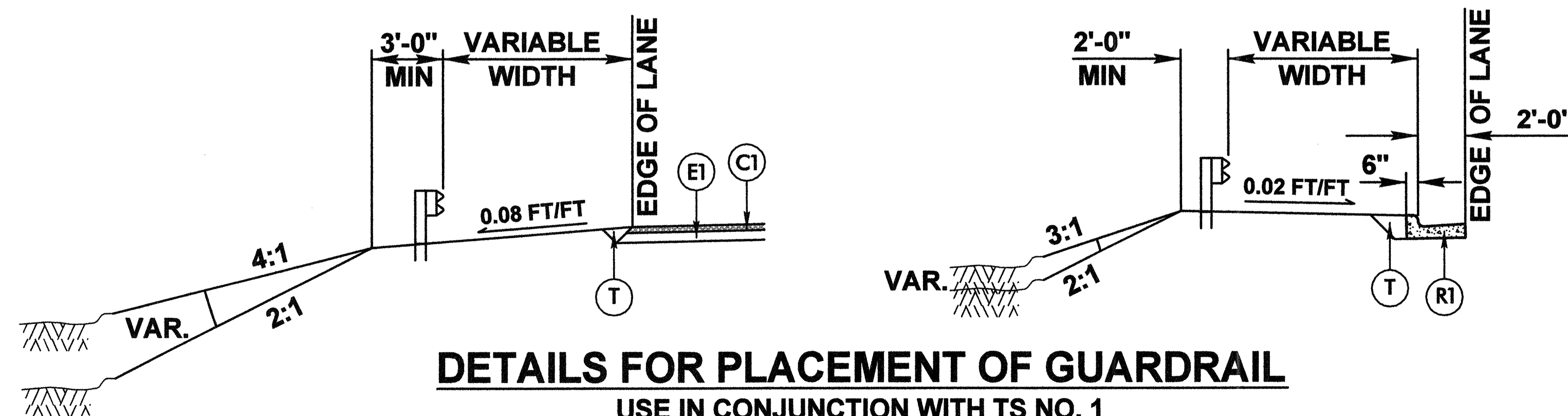
-EY- (LT) STA 10+62.47 TO -L- (LT) STA 10+00.00
 *-L- (LT) STA 21+66.36 TO W. MAIN ST. DRIVEWAY
 NOTE: PAVEMENT WIDENING ONLY (TAPER TO EXIST.)
 FROM -EY- (LT) STA 10+62.47 TO STA 10+00.00
 FROM -L- (LT) STA 21+77.70 TO W. MAIN ST. DRIVEWAY



BRIDGE TYPICAL
 FOR BRIDGE #43 OVER RAINBOW CREEK
 -L- STA 12+81.44 TO STA 14+63.56



DETAIL FOR SHOULDER BERM GUTTER
 USE IN CONJUNCTION WITH TS NO. 1
 -L- STA 14+77.56 TO STA 15+02 (RT)



DETAILS FOR PLACEMENT OF GUARDRAIL
 USE IN CONJUNCTION WITH TS NO. 1

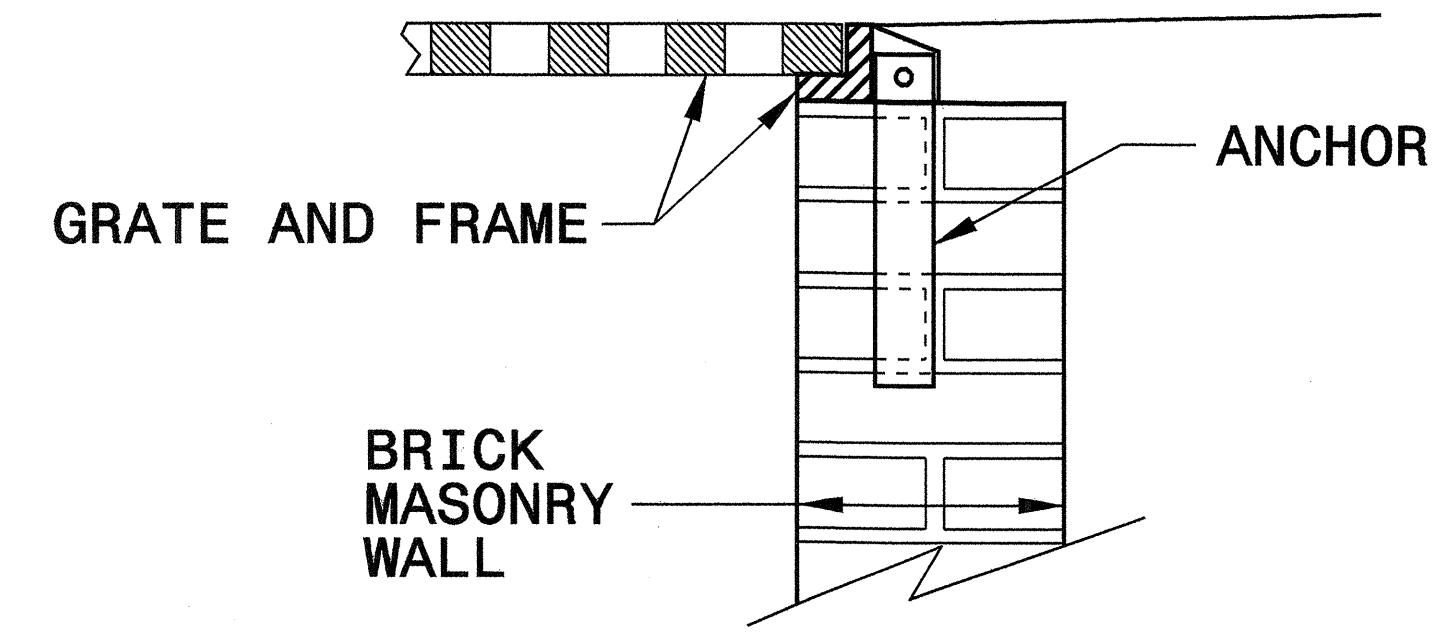
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 DATE: 01/25/2007

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

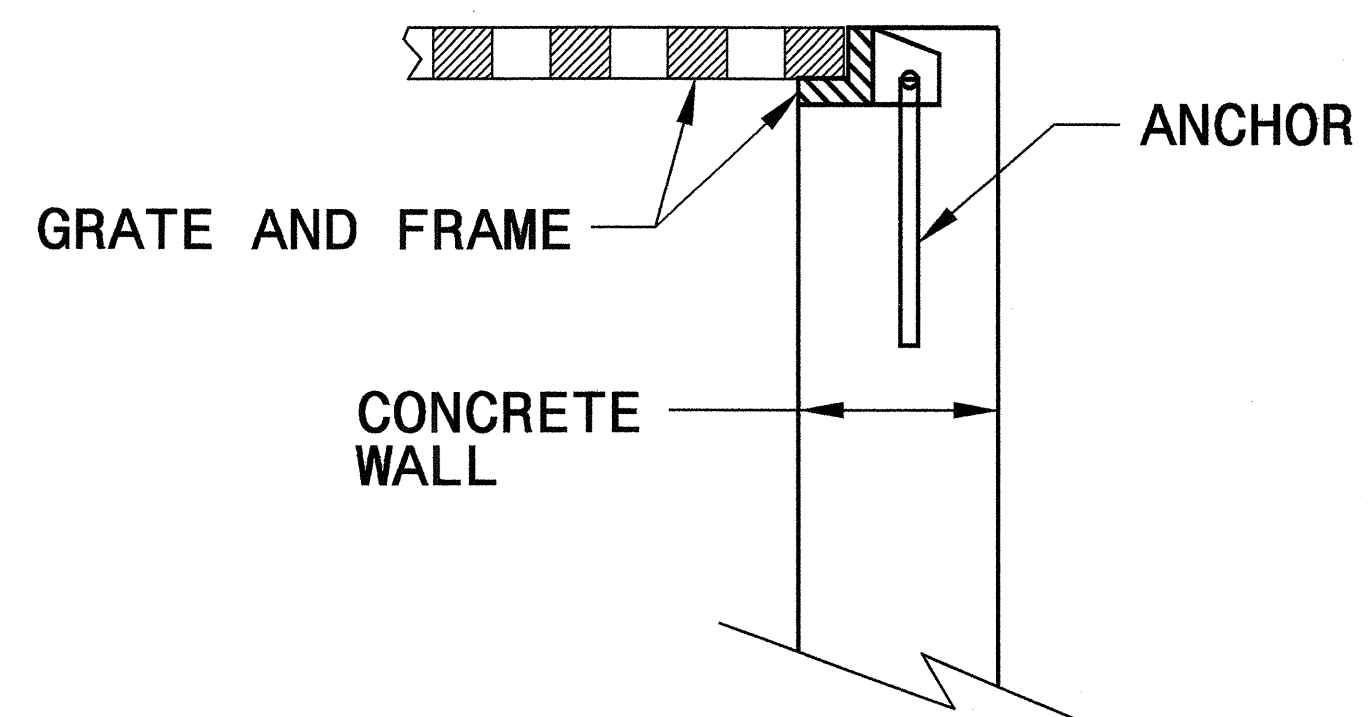
ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE

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

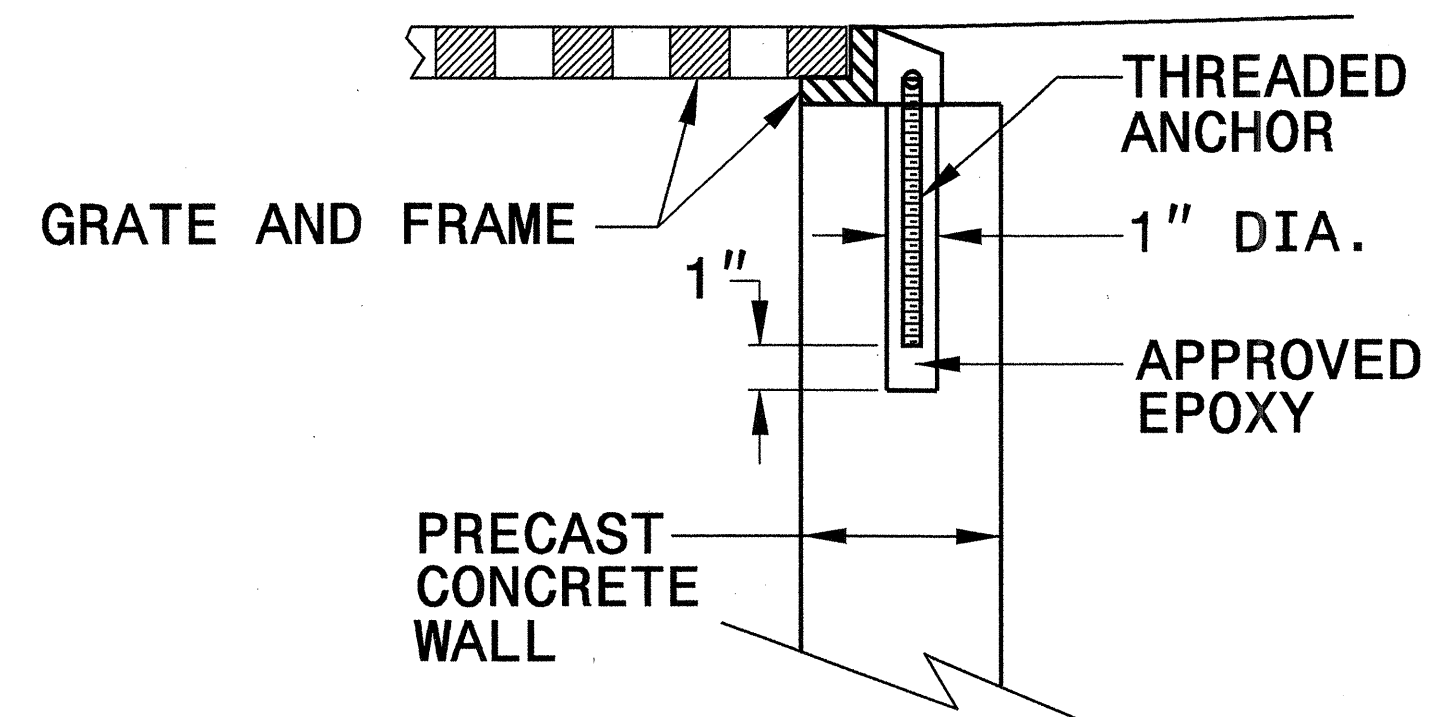
ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE



BRICK MASONRY CONSTRUCTION



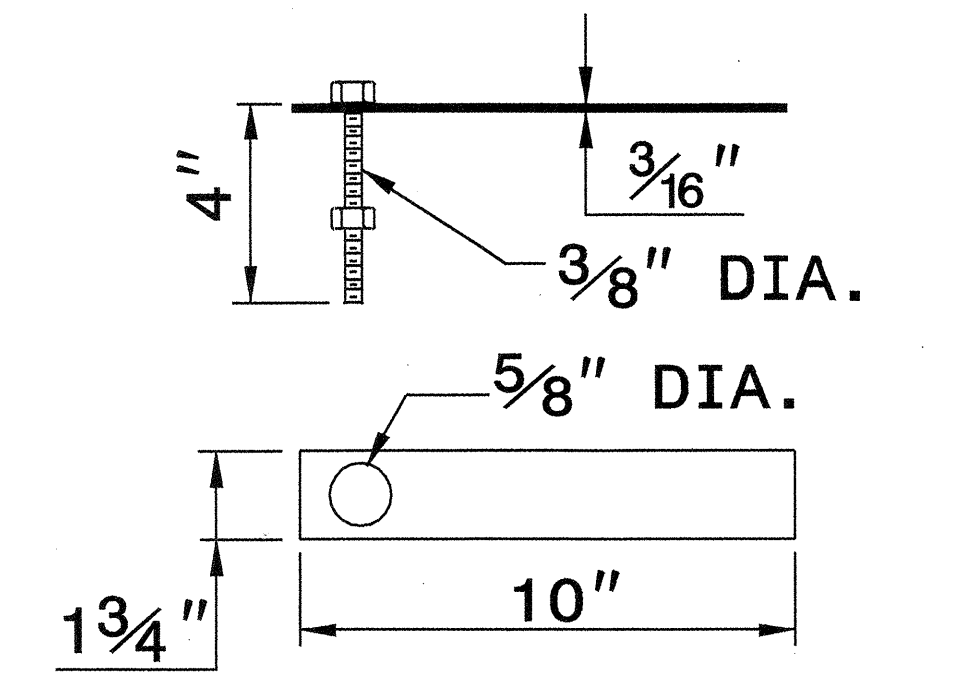
CONCRETE CONSTRUCTION



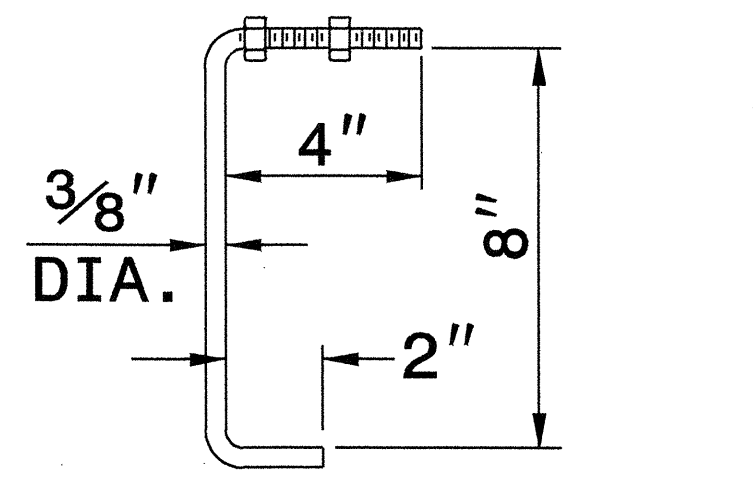
PRECAST CONCRETE CONSTRUCTION

DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

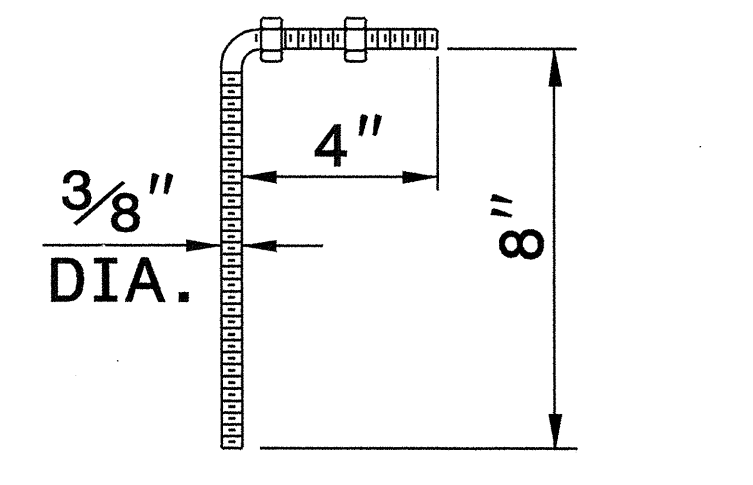
NOTE:
CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.



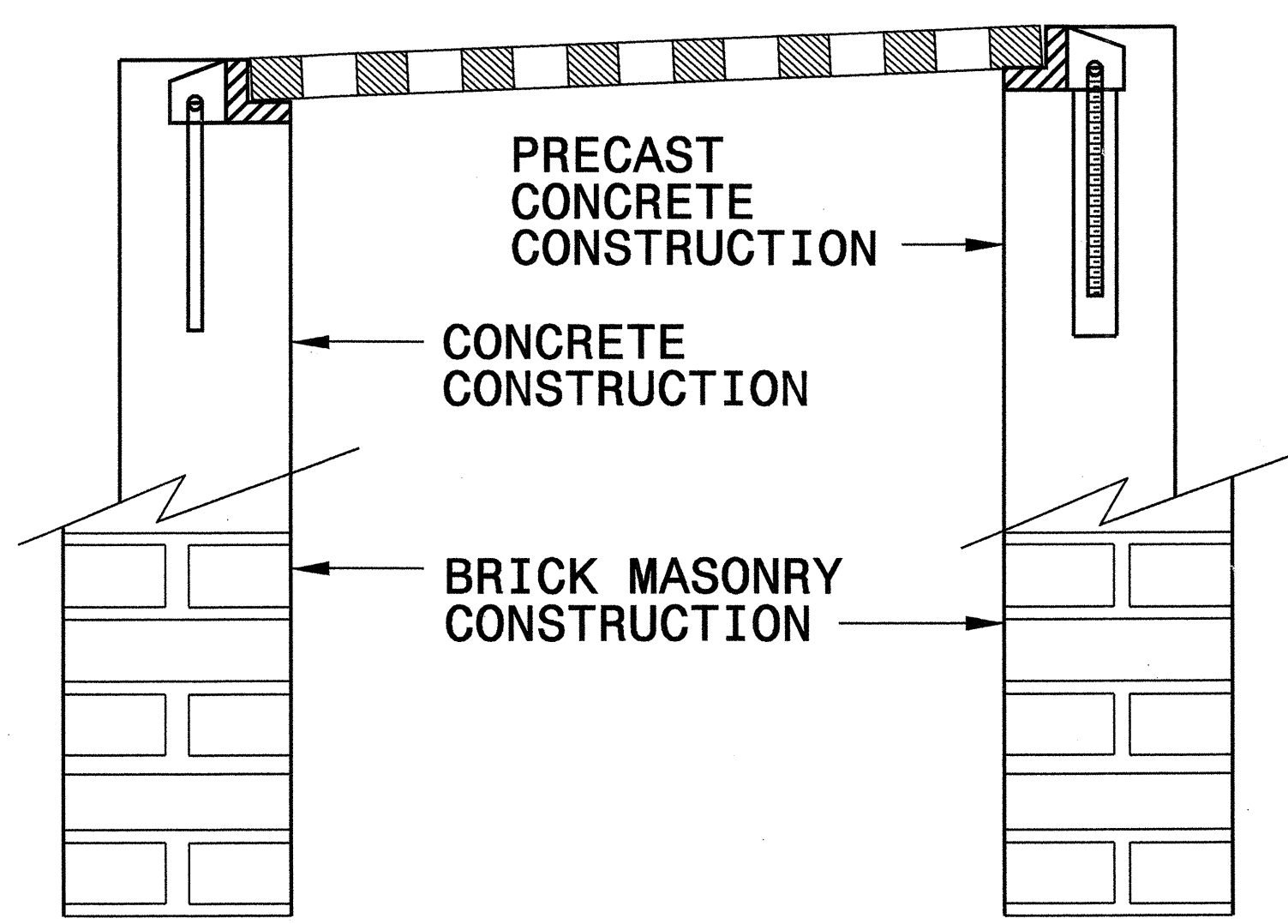
MASONRY ANCHOR
3/8" DIA. BOLT WITH PLATE



CONCRETE ANCHOR
3/8" DIA. BENT BAR

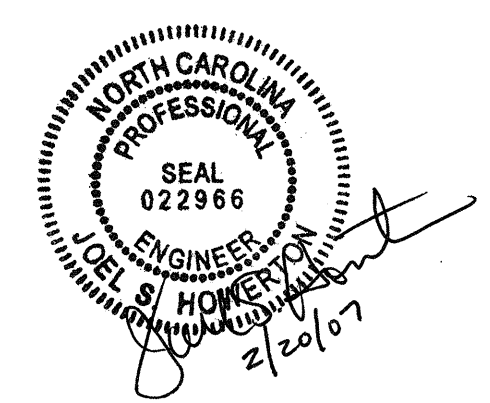


PRECAST CONCRETE ANCHOR
3/8" DIA. BENT BAR



FRAME AND GRATE INSTALLATION FOR NORMAL CROWN AND SUPERELEVATED SECTIONS

27-SEP-2006 09:01
S:\Contracts\Standards\Standards\06\Stds to Special Details\840D25 Anchorage for Frames\08-4127.dgn
ericward AT P522293



**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: *Eric Ward* DATE: 7/27/06
FILE SPEC.: *Eric Ward*

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201639

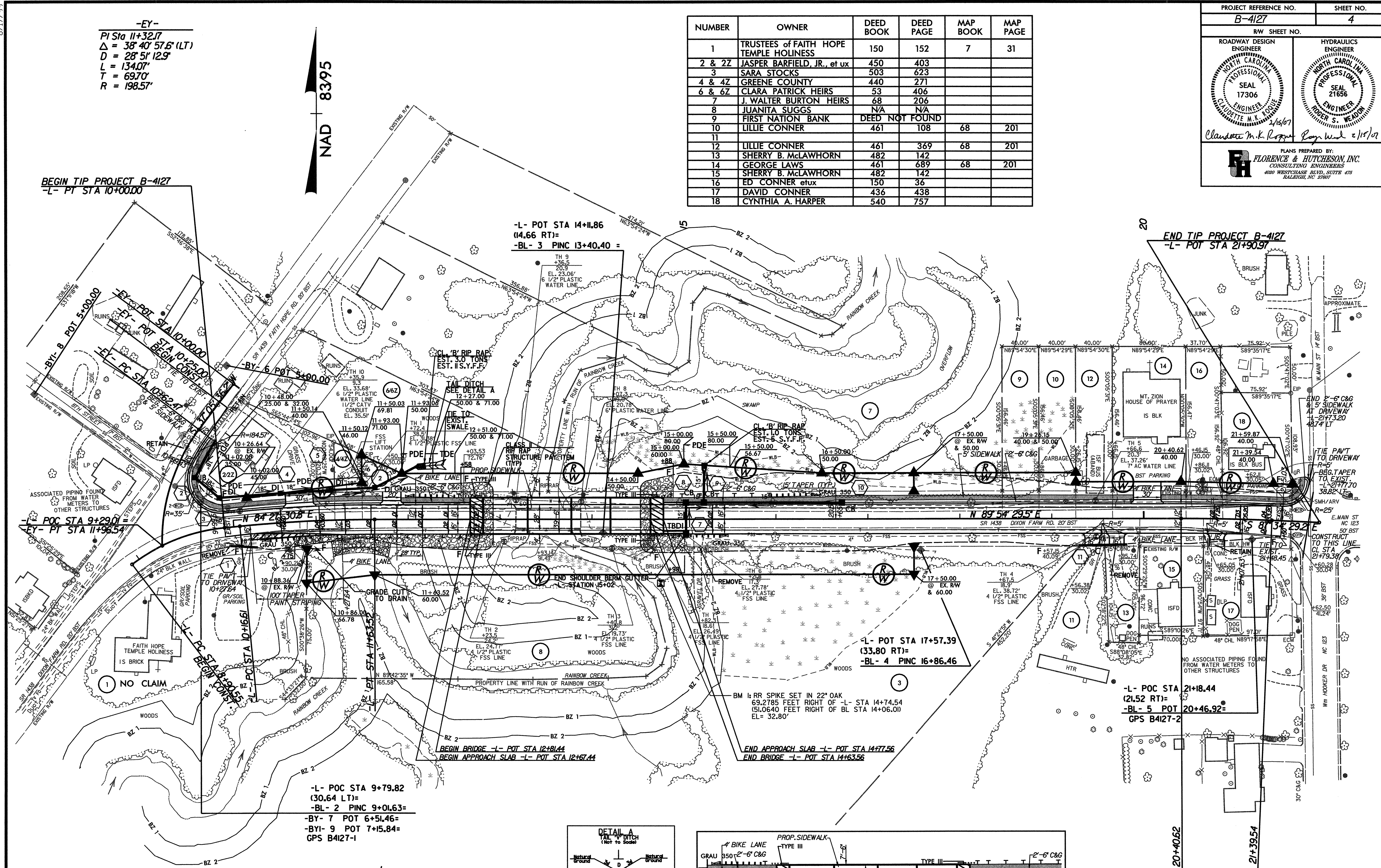
ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
0029000000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+72.50)
0043000000-N	226	Lump Sum		GRADING
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING
0057000000-E	226	400	CY	UNDERCUT EXCAVATION
0134000000-E	240	10	CY	DRAINAGE DITCH EXCAVATION
0195000000-E	265	100	CY	SELECT GRANULAR MATERIAL
0196000000-E	270	100	SY	FABRIC FOR SOIL STABILIZATION
0318000000-E	300	67	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
0344000000-E	310	80	LF	18" SIDE DRAIN PIPE
0366000000-E	310	240	LF	15" RC PIPE CULVERTS, CLASS III
0995000000-E	340	28	LF	PIPE REMOVAL
1110000000-E	510	400	TON	STABILIZER AGGREGATE
1220000000-E	545	100	TON	INCIDENTAL STONE BASE
1489000000-E	610	950	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
1525000000-E	610	850	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
1560000000-E	620	100	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
2022000000-E	815	23	CY	SUBDRAIN EXCAVATION
2033000000-E	815	17	CY	SUBDRAIN FINE AGGREGATE
2044000000-E	815	100	LF	6" PERFORATED SUBDRAIN PIPE
2055000000-E	815	3	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS
2066000000-N	815	1	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
2077000000-E	815	6	LF	6" OUTLET PIPE (SUBDRAINS)
2286000000-N	840	9	EA	MASONRY DRAINAGE STRUCTURES
2364000000-N	840	4	EA	FRAME WITH TWO GRATES, STD 840.16
2367000000-N	840	1	EA	FRAME WITH TWO GRATES, STD 840.29
2374000000-N	840	1	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
2374000000-N	840	1	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
2374000000-N	840	1	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
2549000000-E	846	1,050	LF	2'-6" CONCRETE CURB & GUTTER
2556000000-E	846	25	LF	SHOULDER BERM GUTTER
2591000000-E	848	580	SY	4" CONCRETE SIDEWALK
2605000000-N	848	4	EA	CONCRETE WHEELCHAIR RAMPS
2612000000-E	848	50	SY	6" CONCRETE DRIVEWAY
2830000000-N	858	3	EA	ADJUSTMENT OF MANHOLES
2845000000-N	858	3	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
3030000000-E	862	300	LF	STEEL BM GUARDRAIL
3150000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS
3215000000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
3270000000-N	SP	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
3649000000-E	876	4	TON	RIP RAP, CLASS B
3656000000-E	876	191	SY	FILTER FABRIC FOR DRAINAGE
4025000000-E	901	6.8	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (D)
4025000000-E	901	34.5	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (E)
4025000000-E	901	32.75	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (F)
4082000000-E	903	200	LF	SUPPORTS, WOOD

ItemNumber	Sec #	Quantity	Unit	Description
4096000000-N	904	1	EA	SIGN ERECTION, TYPE D
4102000000-N	904	5	EA	SIGN ERECTION, TYPE E
4108000000-N	904	2	EA	SIGN ERECTION, TYPE F
4116100000-N	904	2	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (D)
4116100000-N	904	5	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (E)
4141000000-N	907	4	EA	DISPOSAL OF SUPPORT, WOOD
4158000000-N	907	11	EA	DISPOSAL OF SIGN SYSTEM, WOOD
4238000000-N	907	4	EA	DISPOSAL OF SIGN, D, E OR F
4400000000-E	1110	268	SF	WORK ZONE SIGNS (STATIONARY)
4405000000-E	1110	96	SF	WORK ZONE SIGNS (PORTABLE)
4410000000-E	1110	57	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
4430000000-N	1130	27	EA	DRUMS
4435000000-N	1135	20	EA	CONES
4445000000-E	1145	96	LF	BARRICADES (TYPE III)
4450000000-N	1150	80	HR	FLAGGER
4810000000-E	1205	8,572	LF	PAINT PAVEMENT MARKING LINES (4")
6000000000-E	1605	1,600	LF	TEMPORARY SILT FENCE
6006000000-E	1610	130	TON	STONE FOR EROSION CONTROL, CLASS A
6009000000-E	1610	60	TON	STONE FOR EROSION CONTROL, CLASS B
6012000000-E	1610	130	TON	SEDIMENT CONTROL STONE
6015000000-E	1615	1.5	ACR	TEMPORARY MULCHING
6018000000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
6021000000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
6024000000-E	1622	50	LF	TEMPORARY SLOPE DRAINS
6027000000-N	1622	2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS

ItemNumber	Sec #	Quantity	Unit	Description
6029000000-E	SP	350	LF	SAFETY FENCE
6030000000-E	1630	225	CY	SILT EXCAVATION
6036000000-E	1631	166	SY	MATTING FOR EROSION CONTROL
6037000000-E	SP	10	SY	COIR FIBER MAT
6042000000-E	1632	175	LF	1/4" HARDWARE CLOTH
6071030000-E	SP	50	LF	COIR FIBER BAFFLES
6071050000-E	SP	1	EA	** SKIMMER (2")
6084000000-E	1660	2.5	ACR	SEEDING & MULCHING
6087000000-E	1660	1	ACR	MOWING
6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
6096000000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
6108000000-E	1665	1.25	TON	FERTILIZER TOPDRESSING
6114000000-N	SP	2	HR	SPECIALIZED HAND MOWING
6117000000-N	SP	8	EA	RESPONSE FOR EROSION CONTROL
6123000000-E	1670	0.1	ACR	REFORESTATION
***** BEGIN SCHEDULE AA *****				
***** (3 ALTERNATES) *****				
0372000000-E	310	308	LF	18" RC PIPE CULVERTS, CLASS III
AA1				
*** OR ***				
0372000000-E	310	108	LF	18" RC PIPE CULVERTS, CLASS III
AA2				
0536000000-E	SP	200	LF	*** HDPE PIPE CULVERTS (18")
AA2				
*** OR ***				
0372000000-E	310	108	LF	18" RC PIPE CULVERTS, CLASS III
AA3				
0540000000-E	SP	200	LF	*** ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, **** THICK (18", 0.064")
AA3				
***** END SCHEDULE AA *****				

5/28/99
FILENAME: ...\\Pr_o\B4127_rdj_psh03.dgn
DATE: 01/16/2006

NUMBER	OWNER	DEED BOOK	DEED PAGE	MAP BOOK	MAP PAGE
1	TRUSTEES of FAITH HOPE TEMPLE HOLINESS	150	152	7	31
2 & 2Z	JASPER BARFIELD, JR., et ux	450	403		
3	SARA STOCKS	503	623		
4 & 4Z	GREENE COUNTY	440	271		
6 & 6Z	CLARA PATRICK HEIRS	53	406		
7	J. WALTER BURTON HEIRS	68	206		
8	JUANITA SUGGS	N/A	N/A		
9	FIRST NATION BANK	DEED NOT FOUND			
10	LILLIE CONNER	461	108	68	201
11					
12	LILLIE CONNER	461	369	68	201
13	SHERRY B. McLAWHORN	482	142		
14	GEORGE LAWS	461	689	68	201
15	SHERRY B. McLAWHORN	482	142		
16	ED CONNER et ux	150	36		
17	DAVID CONNER	436	438		
18	CYNTHIA A. HARPER	540	757		



-EY-
 PI Sta 11+32.17
 $\Delta = 38' 40'' 57.6''$ (LT)
 $D = 28' 5'' 12.9''$
 $L = 134.07'$
 $T = 69.70'$
 $R = 198.57'$

NAD 8395

BEGIN TIP PROJECT B-4127
 -L- PT STA 10+00.00

-L- POT STA 14+11.86
 (14.66 RT)=
 -BL- 3 PINC 13+40.40 =

END TIP PROJECT B-4127
 -L- POT STA 21+90.97

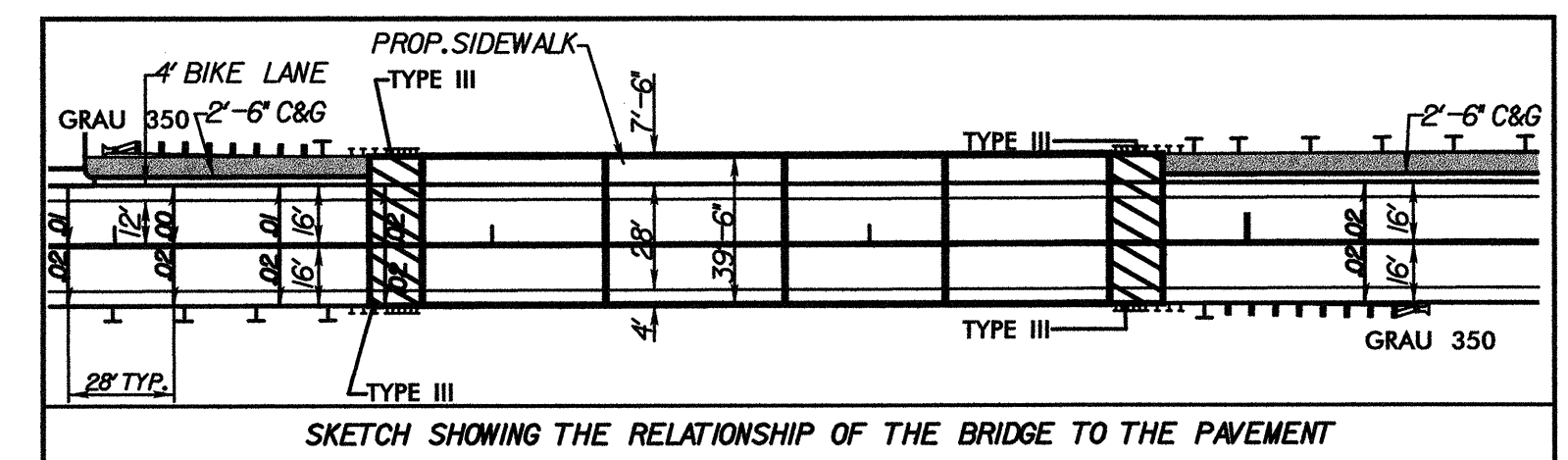
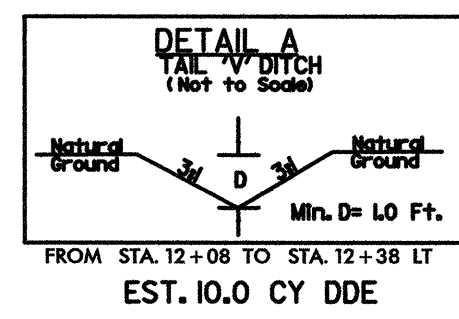
-L- POC STA 9+29.01
 -EY- PT STA 11+96.54

-L- POT STA 17+57.39
 (33.80 RT)=
 -BL- 4 PINC 16+86.46

-L- POC STA 21+18.44
 (21.52 RT)=
 -BL- 5 POT 20+46.92=
 GPS B4127-2

-L- POC STA 9+79.82
 (30.64 LT)=
 -BL- 2 PINC 9+01.63=
 -BY- 7 POT 6+51.46=
 -BYI- 9 POT 7+15.84=
 GPS B4127-1

-L-
 PI Sta 9+46.71 $\Delta = 31' 38'' 50.6''$ (RT) $D = 28' 5'' 55.3''$ $L = 109.45'$ $T = 56.16'$ $R = 198.15'$
 PI Sta 10+90.12 $\Delta = 5' 26'' 58.7''$ (RT) $D = 3' 42'' 34.0''$ $L = 146.91'$ $T = 73.51'$ $R = 1,544.59'$
 PI Sta 20+90.09 $\Delta = 2' 31'' 01.4''$ (RT) $D = 2' 32'' 40.1''$ $L = 98.92'$ $T = 49.47'$ $R = 2,251.77'$



DESIGN DATA

ADT 2007 = 2000
ADT 2027 = 3300
DHV = 10 %
D = 60 %
T = 4 %
V = 40 MPH
FUNC CLASS = LOCAL
* TTST 2% + DUAL 2%

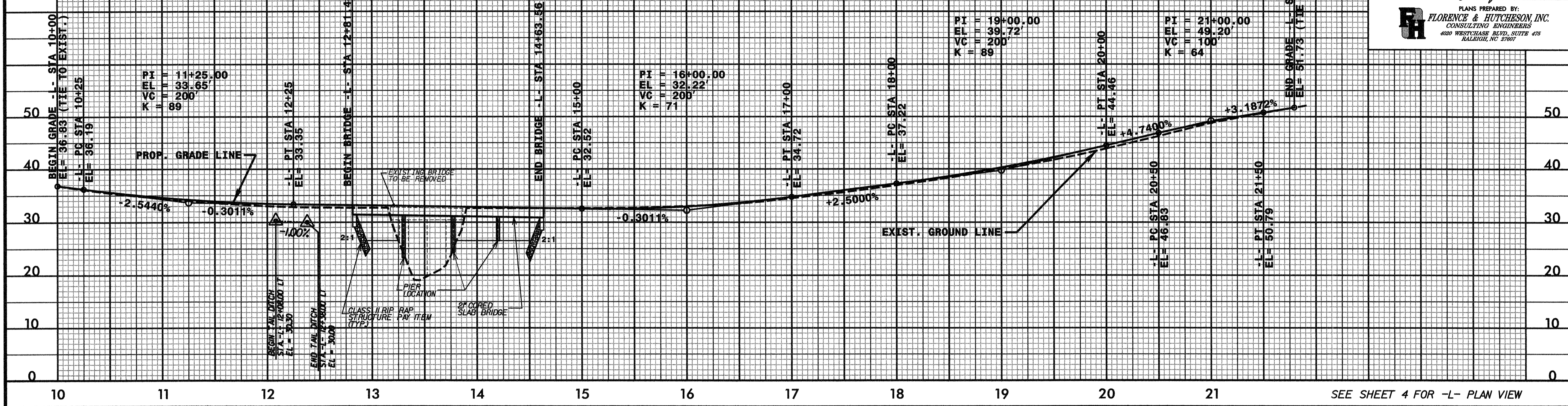
SEE SHEET 5 FOR -L- PROFILE
 SEE SHEETS S-1 thru S-32 FOR STRUCTURE PLANS

5/28/99

BM 1: RR SPIKE SET IN 22" OAK
69.2785 FEET RIGHT OF -L- STA 14+74.54
(51.0640 FEET RIGHT OF BL STA 14+06.01)
EL= 32.80'

-L-

PROJECT REFERENCE NO. B-4127	SHEET NO. 5
ROADWAY DESIGN ENGINEER COURTNEY M.K. COULTE SEAL 17306 2/13/07	HYDRAULICS ENGINEER ROPER S. WEADE SEAL 21656 2/15/07
PLANS PREPARED BY: FLORENCE & HUTCHESON, INC. CONSULTING ENGINEERS 4020 WESTCHASE BLVD., SUITE 476 RALEIGH, NC 27607	



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1420 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 33.2 FT
BASE DISCHARGE	= 2600 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 34.9 FT
OVERTOPPING DISCHARGE	= 1060 CFS
OVERTOPPING FREQUENCY	= 10 YRS
OVERTOPPING ELEVATION	= 32.5 FT

SEE SHEET 4 FOR -L- PLAN VIEW