

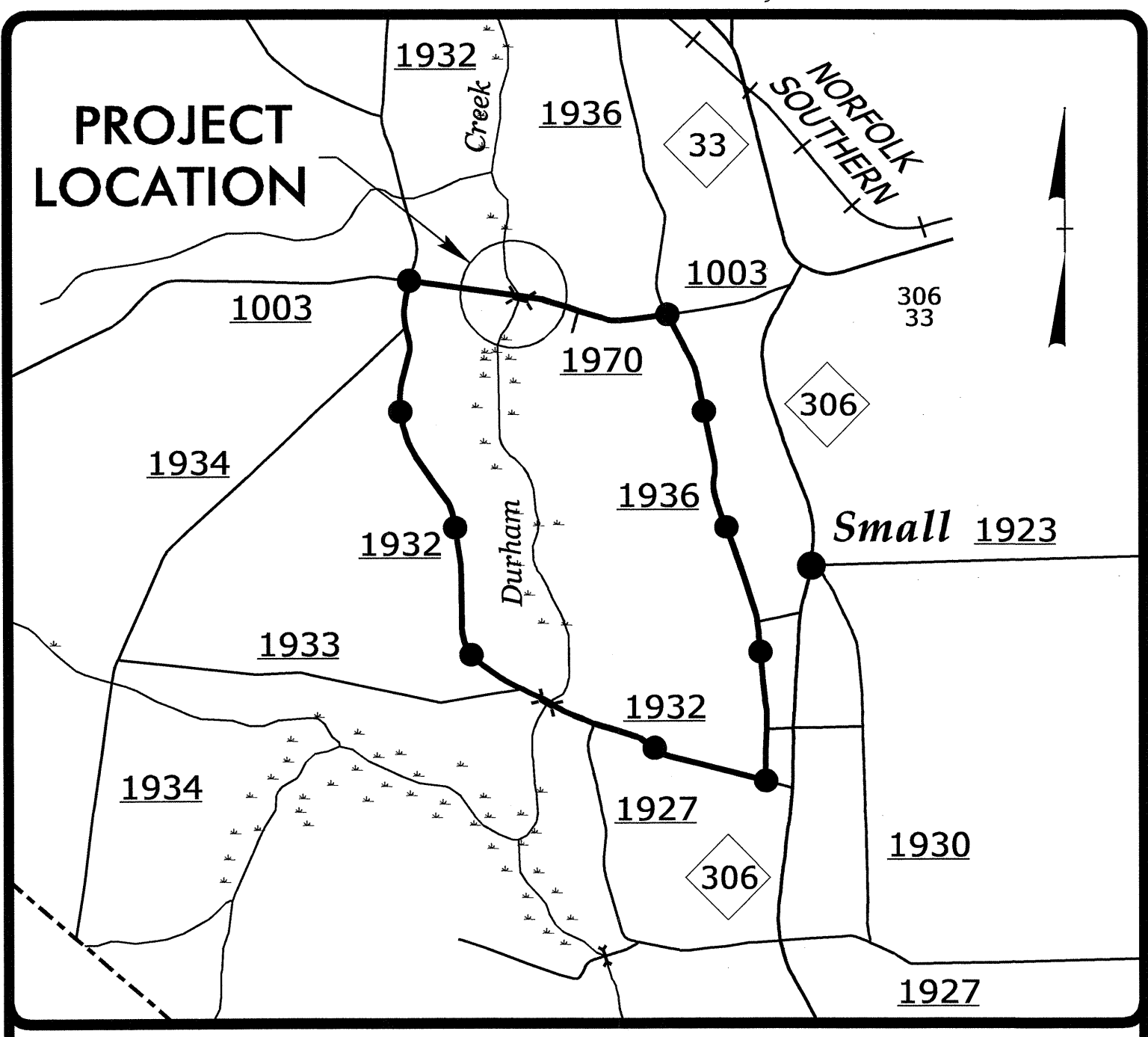
09/08/99

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

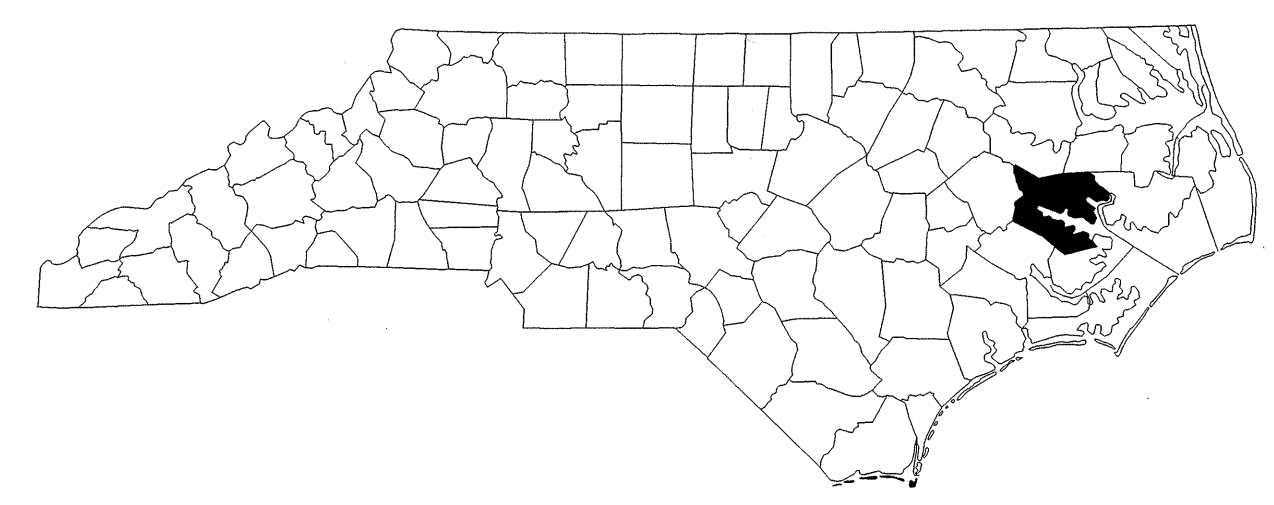
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**BEAUFORT COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4421	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33694.1.1	BRSTP-1003(31)	PE	
33694.2.1	BRSTP-1003(31)	RW & UTILITY	
33694.3.1	BRSTP-1003(31)	CONST.	

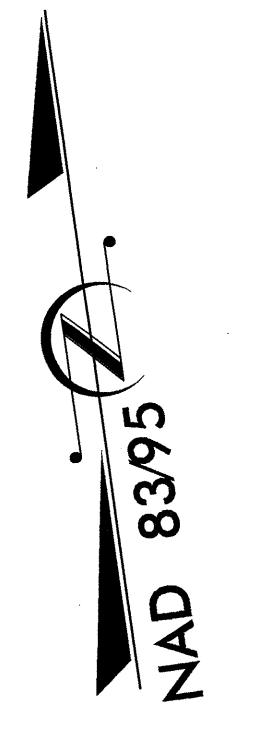
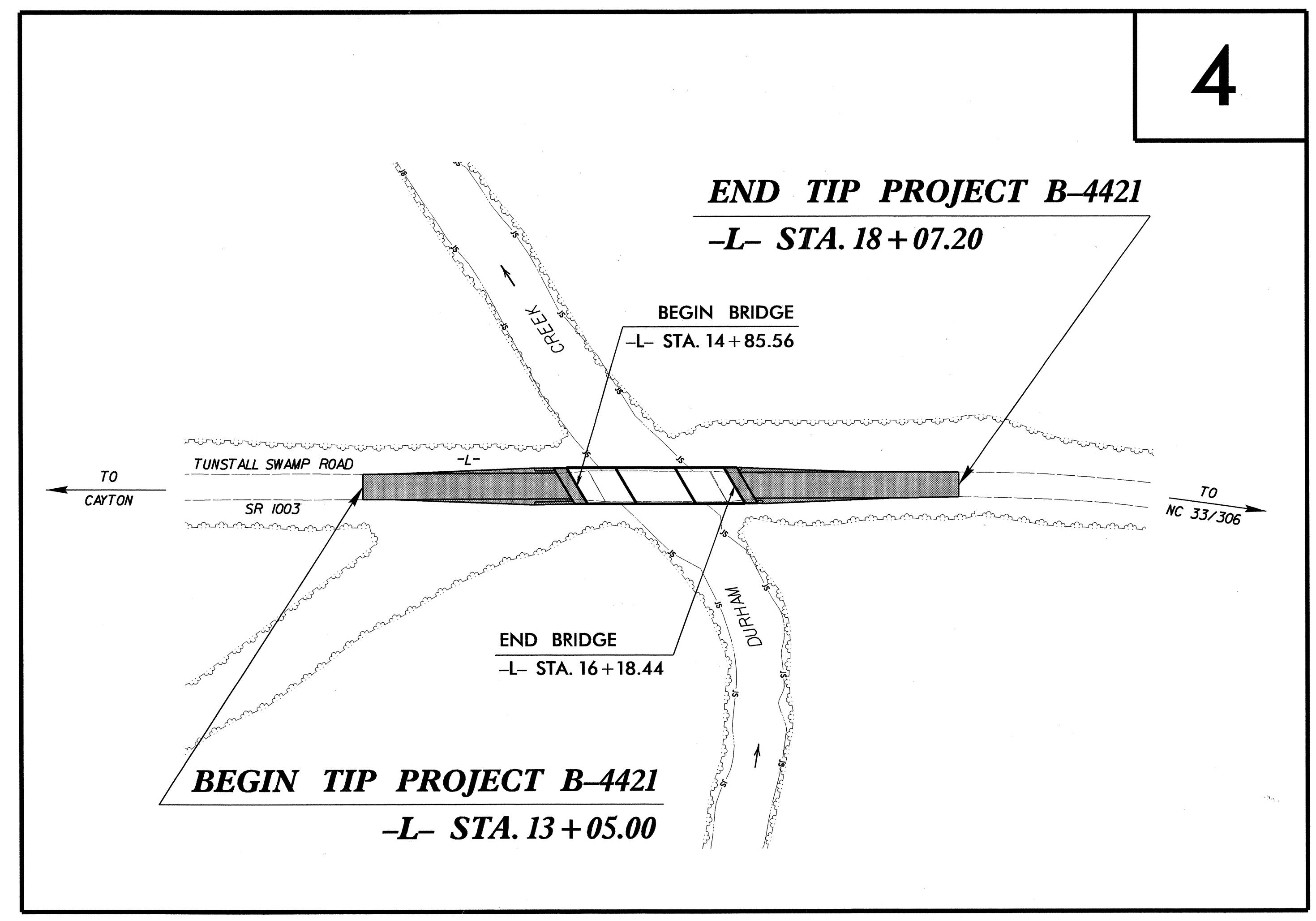
**TIP PROJECT: B-4421**



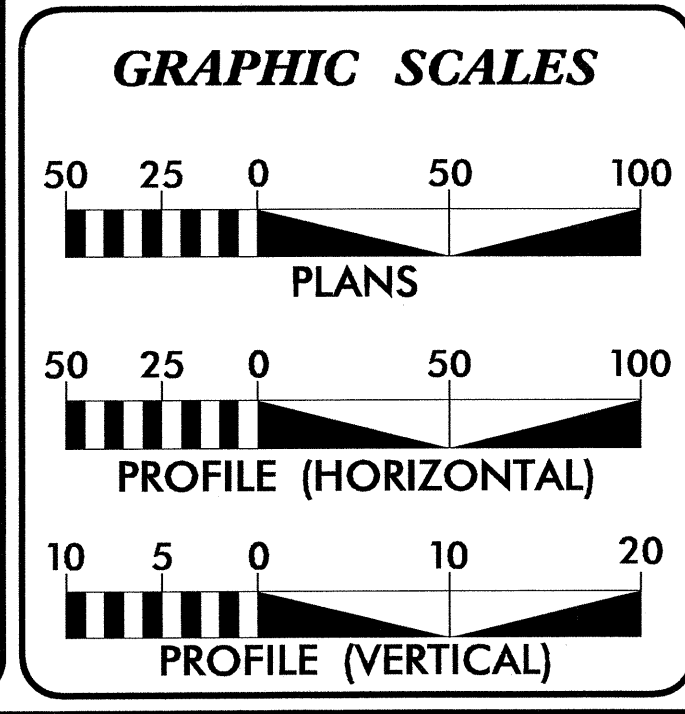
**VICINITY MAP**  
DETOUR ROUTE ●—●—●—●  
NOT TO SCALE



**LOCATION: BRIDGE NO. 42 OVER DURHAM CREEK ON SR 1003**  
**TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE**



**CONTRACT: C202883**



**DESIGN DATA**

ADT 2012 = 1,050
ADT 2032 = 1,530
DHV = 12%
D = 80%
T = 13%*
V = 60 MPH
*(TTST 7% + DUALS 6%)
FUNC CLASS =
RURAL MAJOR COLLECTOR
SUBREGIONAL TIER

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT B-4421 = 0.070 MILES
LENGTH STRUCTURE TIP PROJECT B-4421 = 0.025 MILES
TOTAL LENGTH TIP PROJECT B-4421 = 0.095 MILES

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

2012 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
SEPTEMBER 9, 2011

**LETTING DATE:**  
AUGUST 21, 2012

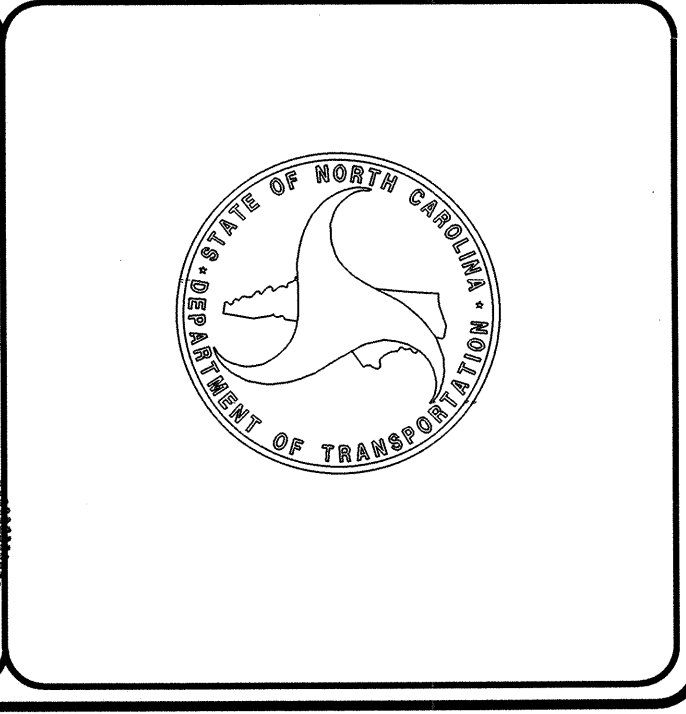
**GARY LOVERING, PE**  
PROJECT ENGINEER

**SUSAN C. LANCASTER, PE**  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

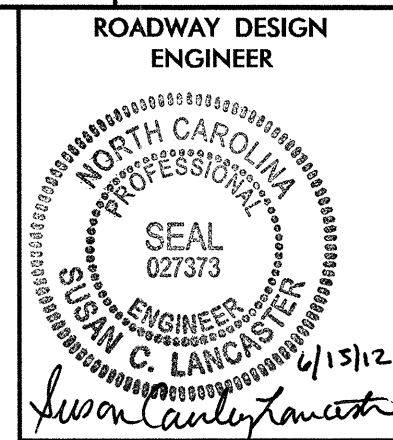
*W. Stalen Cant* 9/15/12  
SIGNATURE: ROADWAY DESIGN ENGINEER

**SUSAN C. LANCASTER, PE**  
9/15/12  
SIGNATURE:



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\$\$\$\$\$USERNAME\$\$\$\$\$

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS



INDEX OF SHEETS:

1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL SHEETS
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
3	SUMMARY OF QUANTITIES
3-A	SUMMARY OF DRAINAGE QUANTITIES, SUMMARY OF EARTHWORK, SHOULDER BERM GUTTER, REMOVAL OF EXISTING ASPHALT PAVEMENT, AND GUARDRAIL
4	PLAN SHEET
5	PROFILE SHEET
TMP-1	TRANSPORTATION MANAGEMENT PLAN
PMP-1 THROUGH PMP-2	PAVEMENT MARKING PLANS
EC-1 THROUGH EC-4	EROSION CONTROL PLANS
RF-1	REFORESTATION PLAN
SIGN-1 THROUGH SIGN-2	SIGNING PLANS
Uc-1 THROUGH Uc-7	UTILITY CONSTRUCTION PLANS
UO-1 THROUGH UO-2	UTILITIES BY OTHER PLANS
X-1A	CROSS-SECTION SUMMARY SHEET
X-1 THROUGH X-3	CROSS-SECTIONS
S-1 THROUGH S-25	STRUCTURE PLANS

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
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
840.00	Concrete Base Pad for Drainage Structures
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.29	Frames and Narrow Slot Flat Grates
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.46	Traffic Bearing Precast Drainage Structure
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

GENERAL NOTES:

2012 SPECIFICATIONS

EFFECTIVE: 01-17-12  
REVISED: 11/01/11

GRADE LINE:

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.

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

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 BEAUFORT COUNTY (WATER), CENTURYLINK (TELEPHONE), AND TIDELAND EMC (POWER)

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

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

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

**BOUNDARIES AND PROPERTY:**

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Property Corner	✕
Property Monument	□ ECM
Parcel/Sequence Number	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---
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ? ☠ ?

**BUILDINGS AND OTHER CULTURE:**

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○ W
Small Mine	✕
Foundation	▭
Area Outline	▭
Cemetery	⊕
Building	▭
School	▭
Church	▭
Dam	▭

**HYDROLOGY:**

Stream or Body of Water	~~~~~
Hydro, Pool or Reservoir	▭
Jurisdictional Stream	---JS---
Buffer Zone 1	---BZ 1---
Buffer Zone 2	---BZ 2---
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	▭
Proposed Lateral, Tail, Head Ditch	---FLOW---
False Sump	▽

**RAILROADS:**

Standard Gauge	-----
RR Signal Milepost	CSX TRANSPORTATION ○ 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	○ RW
Proposed Right of Way Line with Iron Pin and Cap Marker	○ RW ▲
Proposed Right of Way Line with Concrete or Granite R/W Marker	○ RW ●
Proposed Control of Access Line with Concrete C/A Marker	○ RW ●
Existing Control of Access	○ CA
Proposed Control of Access	○ CA
Existing Easement Line	---E---
Proposed Temporary Construction Easement	---E---
Proposed Temporary Drainage Easement	---TDE---
Proposed Permanent Drainage Easement	---PDE---
Proposed Permanent Drainage / Utility Easement	---DUE---
Proposed Permanent Utility Easement	---PUE---
Proposed Temporary Utility Easement	---TUE---
Proposed Aerial Utility Easement	---AUE---
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

**ROADS AND RELATED FEATURES:**

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	---C---
Proposed Slope Stakes Fill	---F---
Proposed Curb Ramp	○ CR
Existing Metal Guardrail	---T---
Proposed Guardrail	---T---
Existing Cable Guiderail	---P---
Proposed Cable Guiderail	---P---
Equality Symbol	⊕
Pavement Removal	▭

**VEGETATION:**

Single Tree	○
Single Shrub	○
Hedge	~~~~~
Woods Line	~~~~~

Orchard	○ ○ ○ ○
Vineyard	▭ Vineyard

**EXISTING STRUCTURES:**

MAJOR:	
Bridge, Tunnel or Box Culvert	▭ CONC
Bridge Wing Wall, Head Wall and End Wall	▭ CONC WW
MINOR:	
Head and End Wall	▭ CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	▭ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ S
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	---P---
Designated U/G Power Line (S.U.E.*)	---P---

**TELEPHONE:**

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	▭
Telephone Pedestal	⊕
Telephone Cell Tower	⊗
U/G Telephone Cable Hand Hole	▭
Recorded U/G Telephone Cable	---T---
Designated U/G Telephone Cable (S.U.E.*)	---T---
Recorded U/G Telephone Conduit	---TC---
Designated U/G Telephone Conduit (S.U.E.*)	---TC---
Recorded U/G Fiber Optics Cable	---T FO---
Designated U/G Fiber Optics Cable (S.U.E.*)	---T FO---

**WATER:**

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	---W---
Designated U/G Water Line (S.U.E.*)	---W---
Above Ground Water Line	---A/G Water---

**TV:**

TV Satellite Dish	⊕
TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	▭
Recorded U/G TV Cable	---TV---
Designated U/G TV Cable (S.U.E.*)	---TV---
Recorded U/G Fiber Optic Cable	---TV FO---
Designated U/G Fiber Optic Cable (S.U.E.*)	---TV FO---

**GAS:**

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	---G---
Designated U/G Gas Line (S.U.E.*)	---G---
Above Ground Gas Line	---A/G Gas---

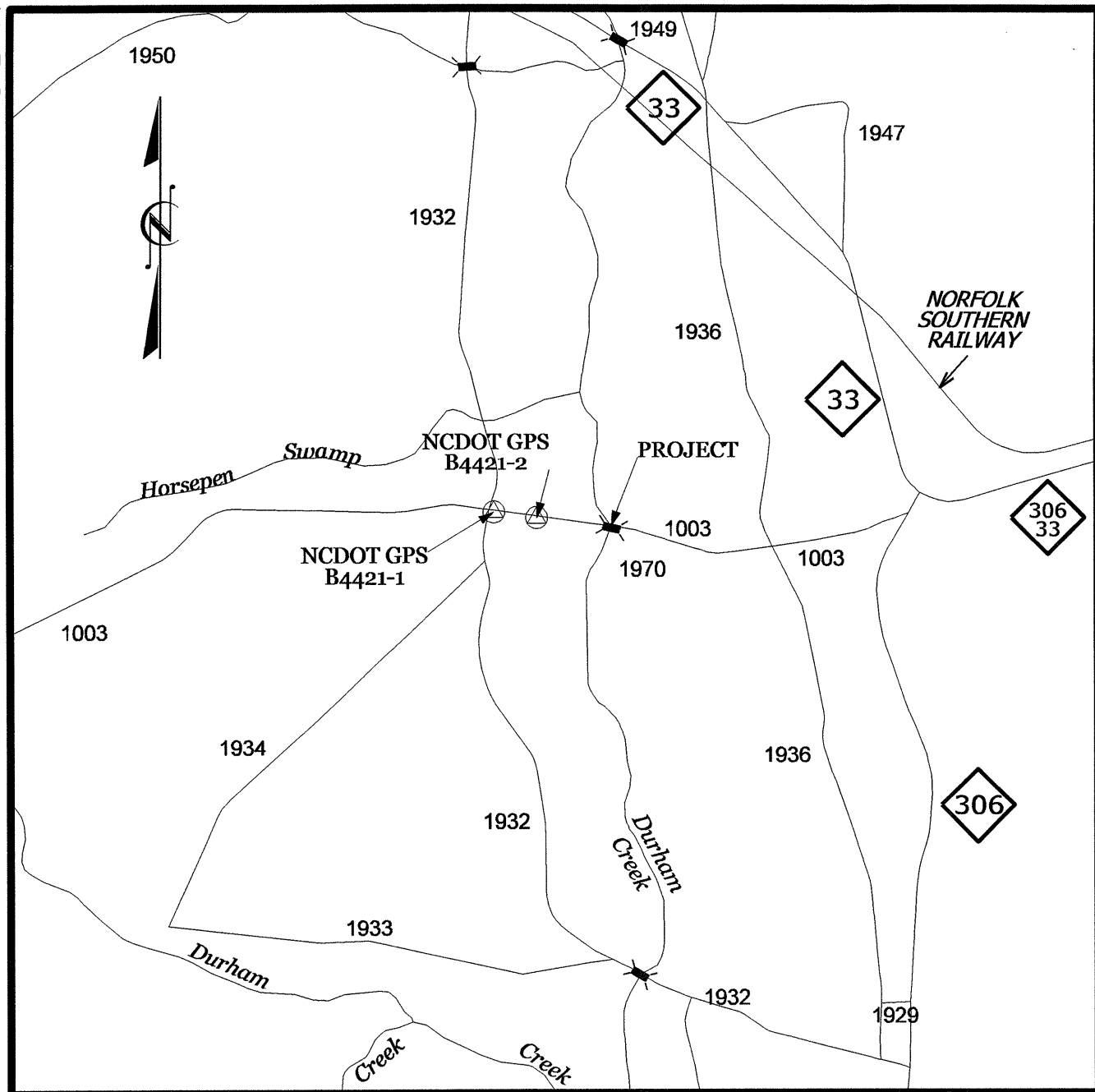
**SANITARY SEWER:**

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

**MISCELLANEOUS:**

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	---?UTL---
U/G Tank; Water, Gas, Oil	▭
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	▭
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

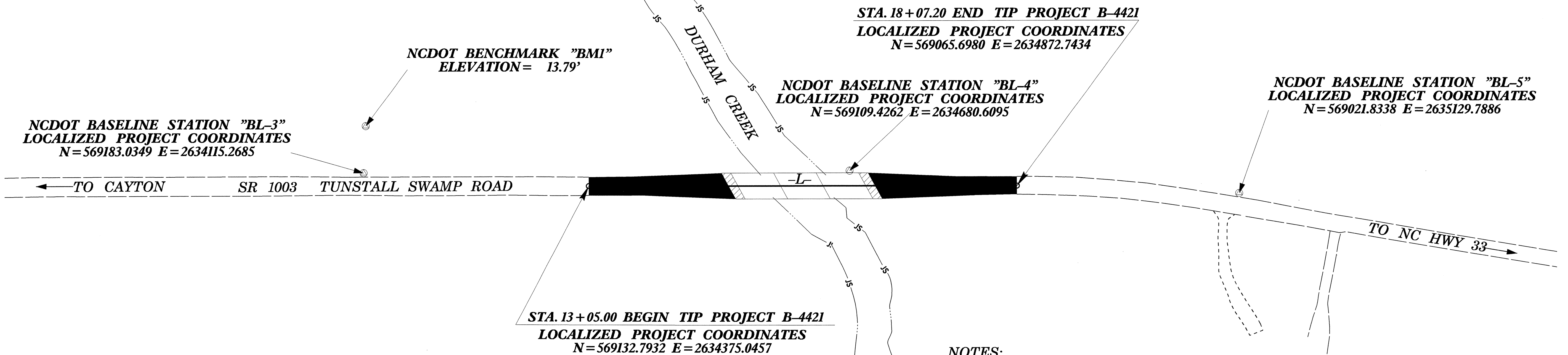
# SURVEY CONTROL SHEET B-4421



VICINITY MAP  
(Not to Scale)

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
3	BL-3		569183.0349	2634115.2685	18.63	10+40.84	15.08 LT
4	BL-4		569109.4262	2634680.6095	17.68	16+10.95	17.67 LT
5	BL-5		569021.8338	2635129.7886	25.89	20+66.78	15.44 LT

.....  
 BM1 ELEVATION = 13.79  
 N 569237 E 2634125  
 L STATION 10+43.00 70 LEFT  
 RR SPIKE IN 15' HARDWOOD  
 .....



**NOTES:**

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:  
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/)  
 THE FILES TO BE FOUND ARE AS FOLLOWS:  
 B4421\_LS\_CONTROL.TXT  
 SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- Ⓞ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.  
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.  
 NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "OLD GPS B4421-1" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF NORTHING: 569277.874(ft) EASTING: 2633179.517(ft) ELEVATION: 30.495(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987724

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "OLD GPS B4421-1" TO -L- STATION 13+05.00 IS S 83°04'51.0" E 1204.300 (ft)

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

TYPE	STATION	NORTH	EAST
POT	10+00.00	569173.5420	2634072.7800
PC	18+07.20	569065.6979	2634872.7447
PT	20+28.93	569018.2033	2635089.0687
POT	23+45.60	568925.1500	2635391.7660

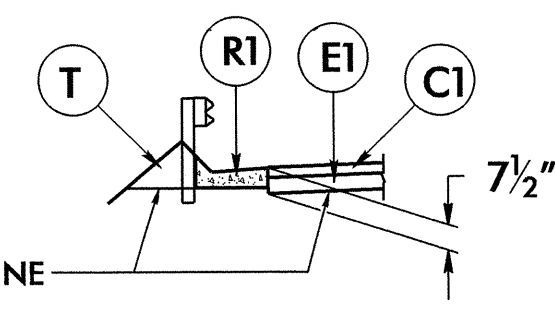
NOTE: DRAWING NOT TO SCALE

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6/2/99

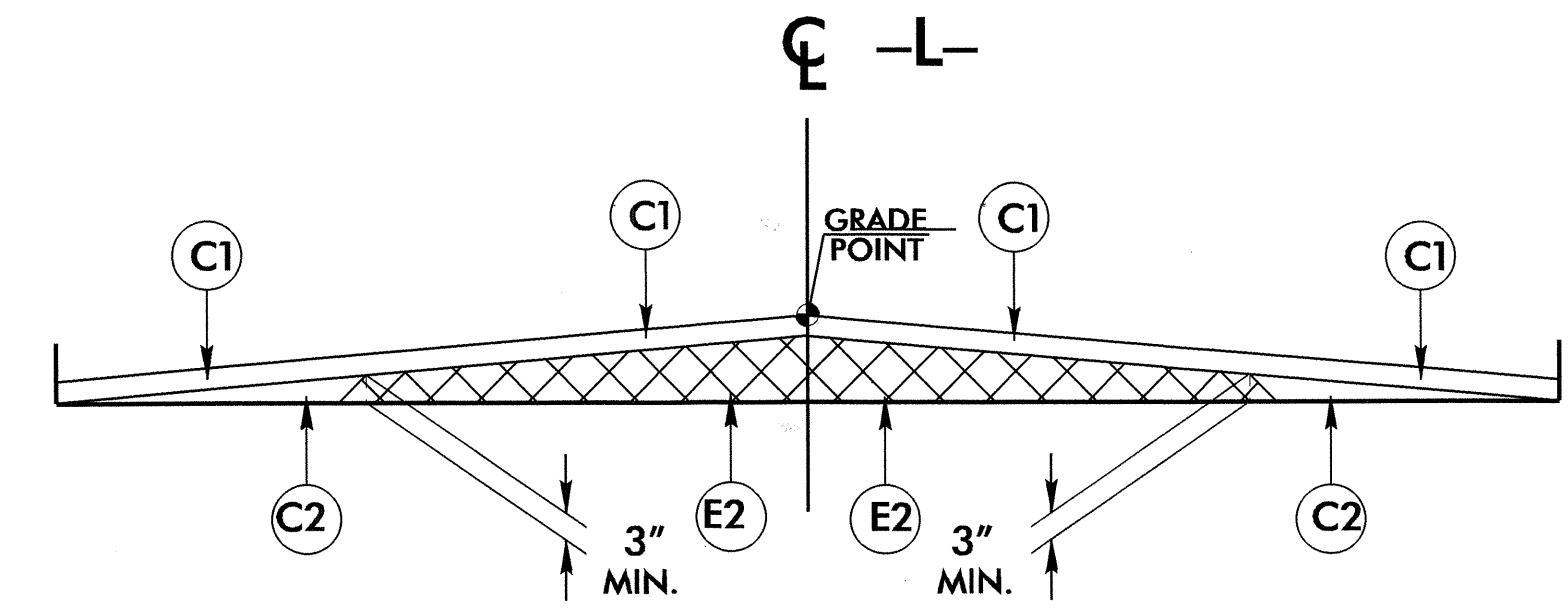
PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
C1	PROP. APPROX. 2½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.50 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570.00 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.
R1	SHOULDER BERM GUTTER.
T	EARTH MATERIAL.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL).

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

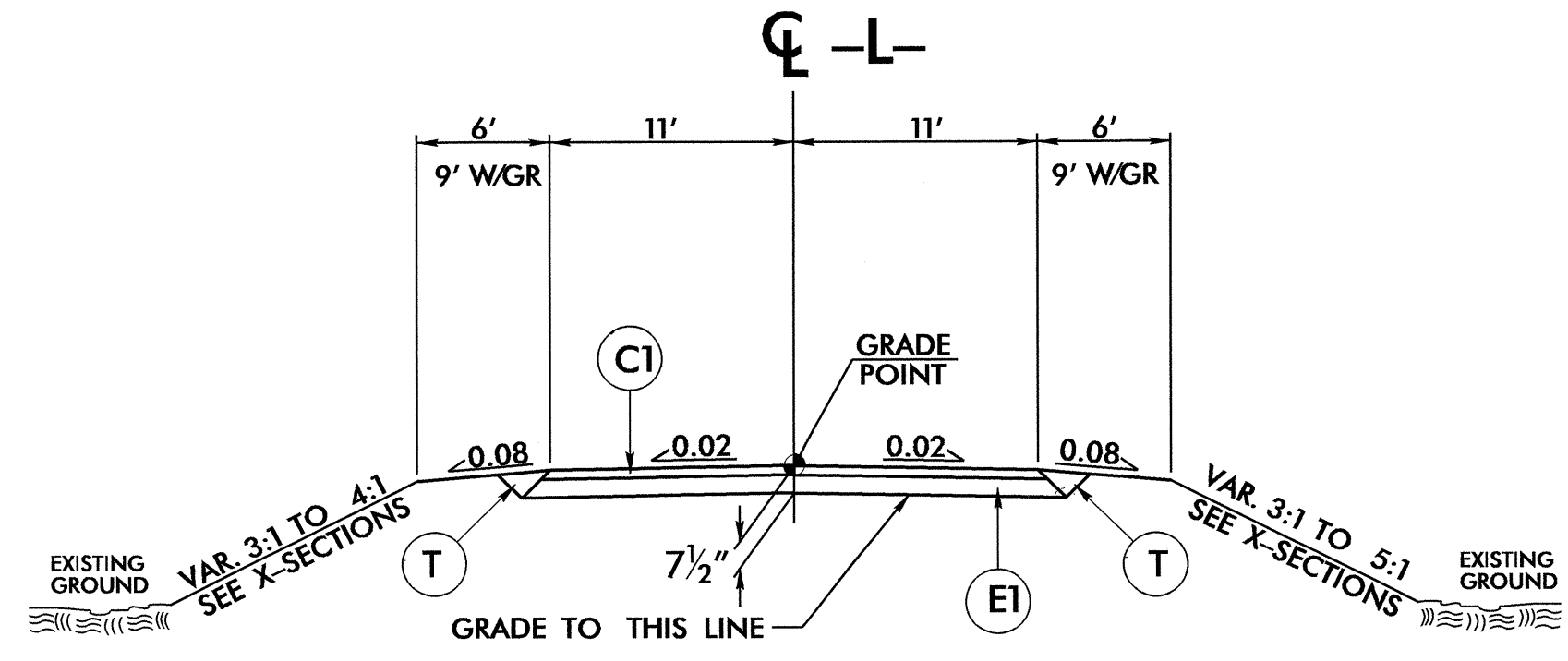


**DETAIL SHOWING SHOULDER BERM GUTTER ON TOP OF SUBGRADE**

- L- STA. 14+50.00 TO -L- STA. 14+65.91 (LT)
- L- STA. 14+50.00 TO -L- STA. 14+83.51 (RT)
- L- STA. 16+20.49 TO -L- STA. 16+24.49 (LT)
- L- STA. 16+38.09 TO -L- STA. 16+42.09 (RT)



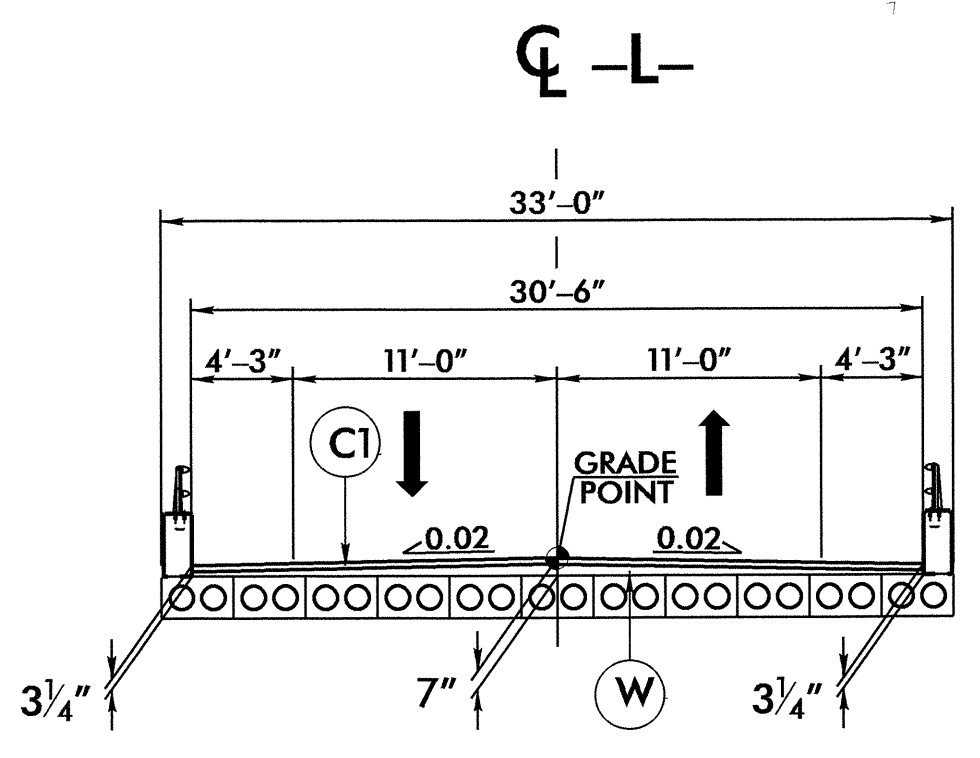
**DETAIL SHOWING METHOD OF WEDGING ON STRUCTURE**



**TYPICAL SECTION NO. 1**

**USE TYPICAL SECTION NO. 1**

- L- STA. 13+05.00 TO -L- STA. 14+85.56 (BEG. BRIDGE)
- L- STA. 16+18.44 (END BRIDGE) TO -L- STA. 18+07.20



**TYPICAL SECTION ON STRUCTURE**

**USE TYPICAL SECTION ON STRUCTURE**

- L- STA. 14+85.56 TO -L- STA. 16+18.44

PROJECT REFERENCE NO. B-4421	SHEET NO. 2
ROADWAY DESIGN ENGINEER SUSAN C. LANCASTER 6/15/12	PAVEMENT DESIGN ENGINEER CLARK S. MORRISON 6/15/12

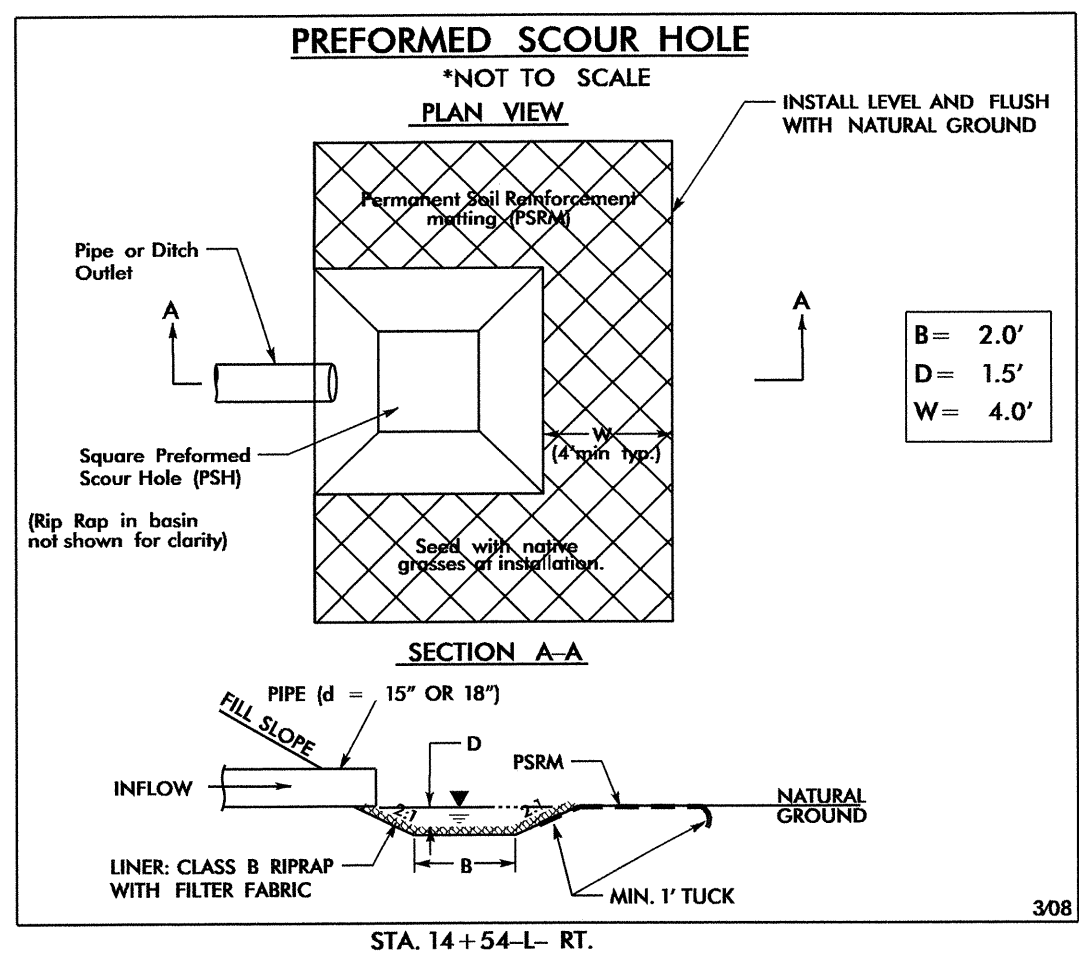
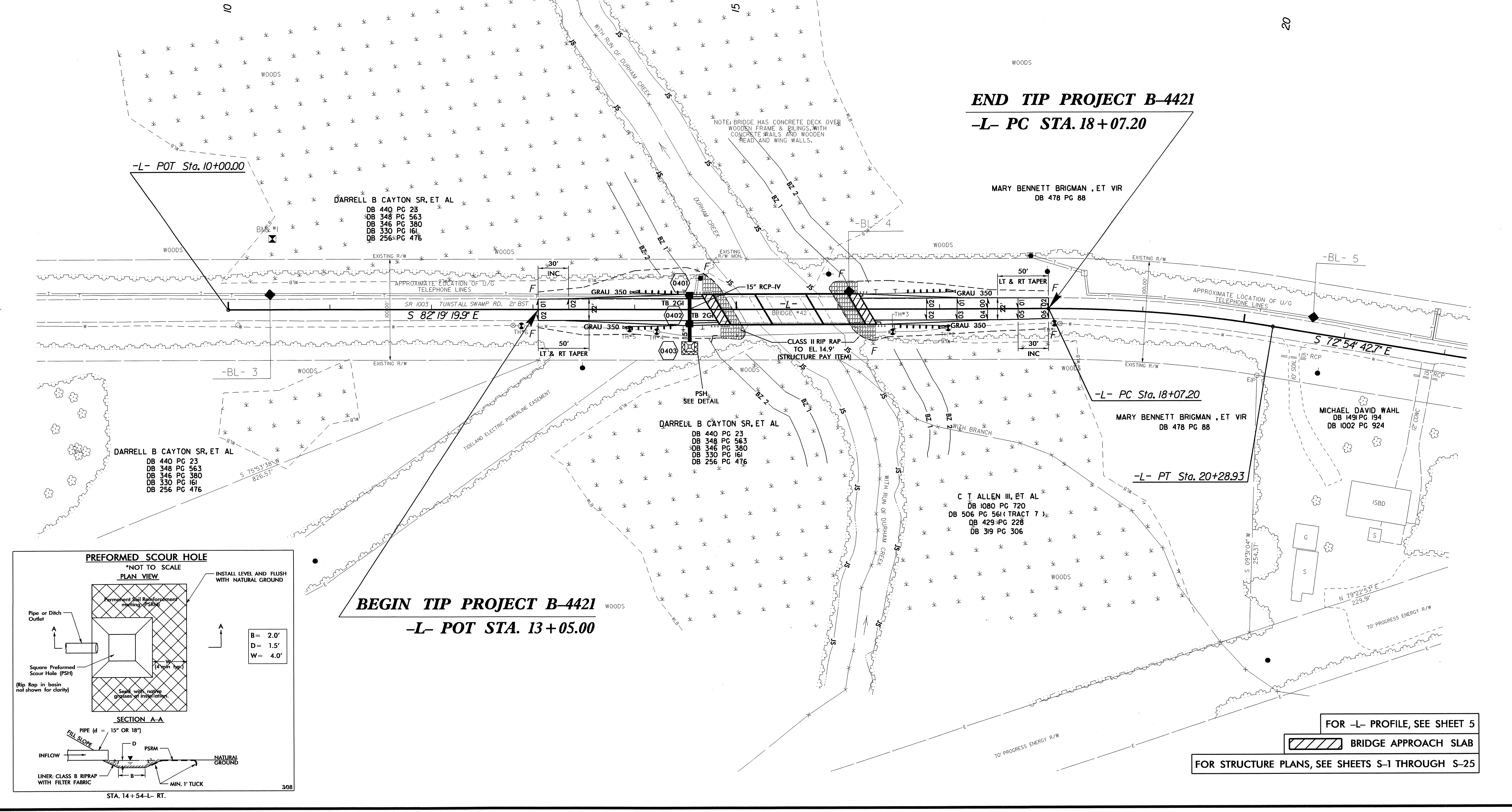
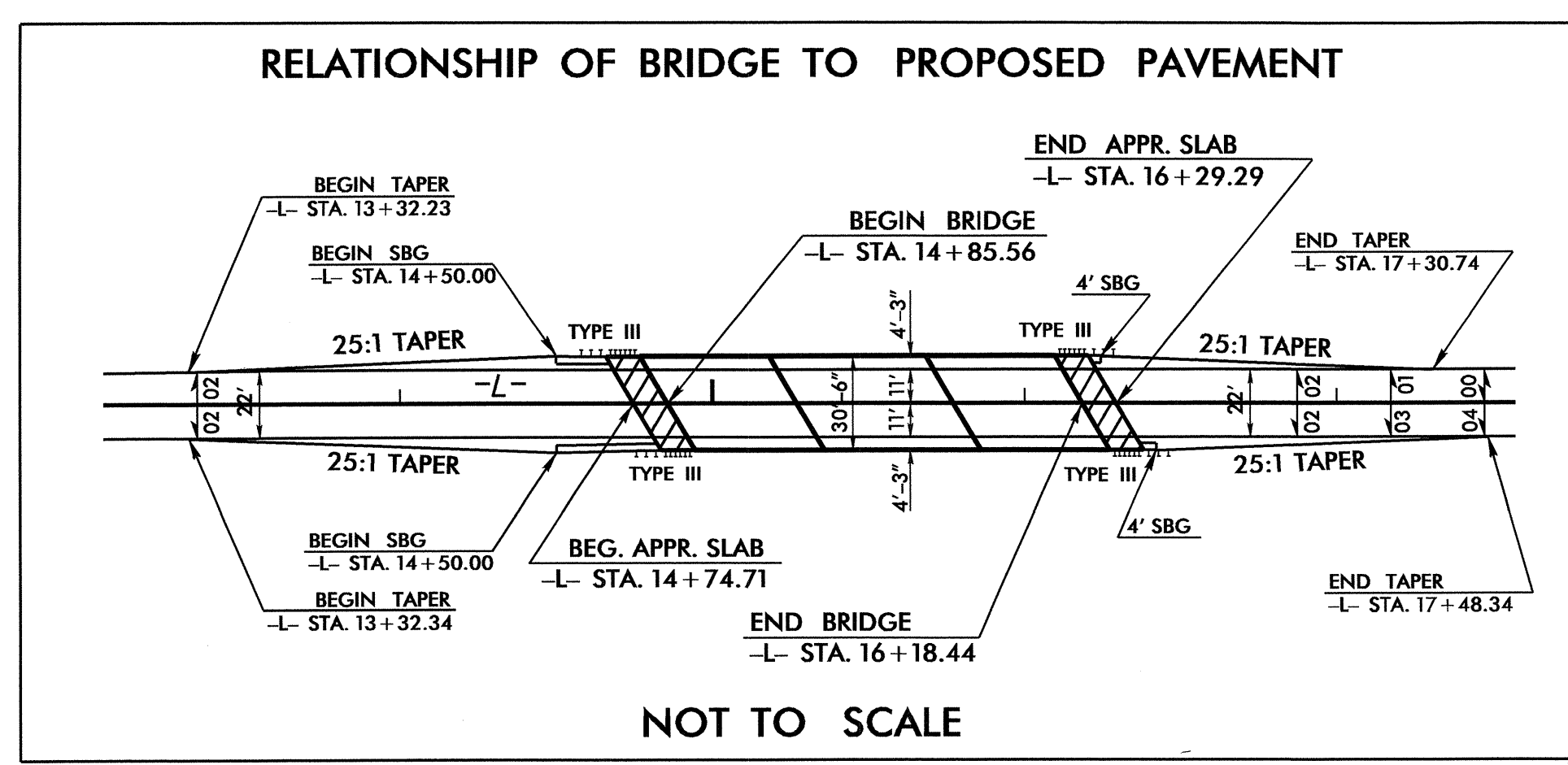
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-L- CURVE DATA  
 PI Sta 19+18.31  
 $\Delta = 9^{\circ} 24' 37.2" (RT)$   
 $D = 414' 38.9"$   
 $L = 221.73'$   
 $T = 111.11'$   
 $R = 1,350.00'$

NAD 83/95



FOR -L- PROFILE, SEE SHEET 5

BRIDGE APPROACH SLAB

FOR STRUCTURE PLANS, SEE SHEETS S-1 THROUGH S-25

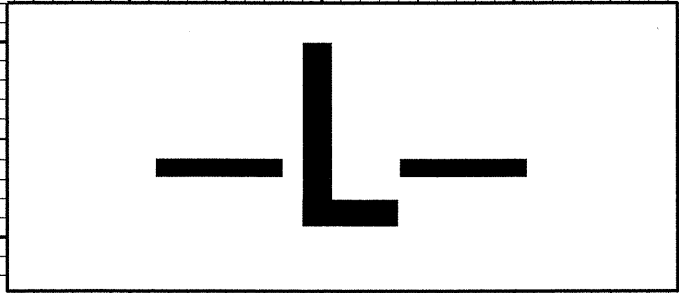
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5/14/99

PROJECT REFERENCE NO. B-4421	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



21" CORED SLAB  
 3 SPANS = 1 @ 41'-4<sup>7</sup>/<sub>16</sub>" , 1 @ 50'-1<sup>3</sup>/<sub>4</sub>" , 1 @ 41'-4<sup>7</sup>/<sub>16</sub>"  
 CL -L- STA 15+52.00  
 CL ELEV = 19.72'  
 SKEW = 60°

**BRIDGE HYDRAULIC DATA**

DESIGN DISCHARGE	= 1400	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 13.9	FT
BASE DISCHARGE	= 2100	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 15.0	FT
OVERTOPPING DISCHARGE	= 5200	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 16.3	FT

DATE OF SURVEY 10/09/2008  
 W.S. ELEVATION AT DATE OF SURVEY = +/- 9.0 FT

BEGIN GRADE  
 -L- STA. 13+05.00  
 EL. = 18.71'

BEGIN BRIDGE  
 -L- STA. 14+85.56

END BRIDGE  
 -L- STA. 16+18.44

END GRADE  
 -L- STA. 18+07.20  
 EL. = 21.25'

PI = 13+90.00  
 EL = 18.98'  
 VC = 160'  
 K = 993  
 V<sub>d</sub> > 60 mph

PI = 15+55.00  
 EL = 19.77'  
 VC = 170'  
 K = 967  
 V<sub>d</sub> > 60 mph

PI = 17+20.00  
 EL = 20.27'  
 VC = 160'  
 K = 195  
 V<sub>d</sub> > 60 mph

(+)-0.3176% (+)-0.4788% (+)-0.4788% (+)-0.3030% (+)-0.3030% (+)-1.1239%

CLASS II RIP RAP  
 1.5:1 SLOPE  
 (STRUCTURE PAY ITEM)

CLASS II RIP RAP  
 1.5:1 SLOPE  
 (STRUCTURE PAY ITEM)

BM #1 RAILROAD SPIKE SET IN 15" HARDWOOD  
 -L- STA. 10+43.00 70.00' LT ELEV. = 13.79'  
 N 569237 E 2634125

FOR -L- ALIGNMENT, SEE SHEET 4

UNCLASSIFIED STRUCTURE EXCAVATION  
 (STRUCTURE PAY ITEM)  
 FOR STRUCTURE PLANS, SEE SHEETS S-1 THROUGH S-25

14-JUN-2012 13:52  
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10 11 12 13 14 15 16 17 18 19 20 21 22 23

40  
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