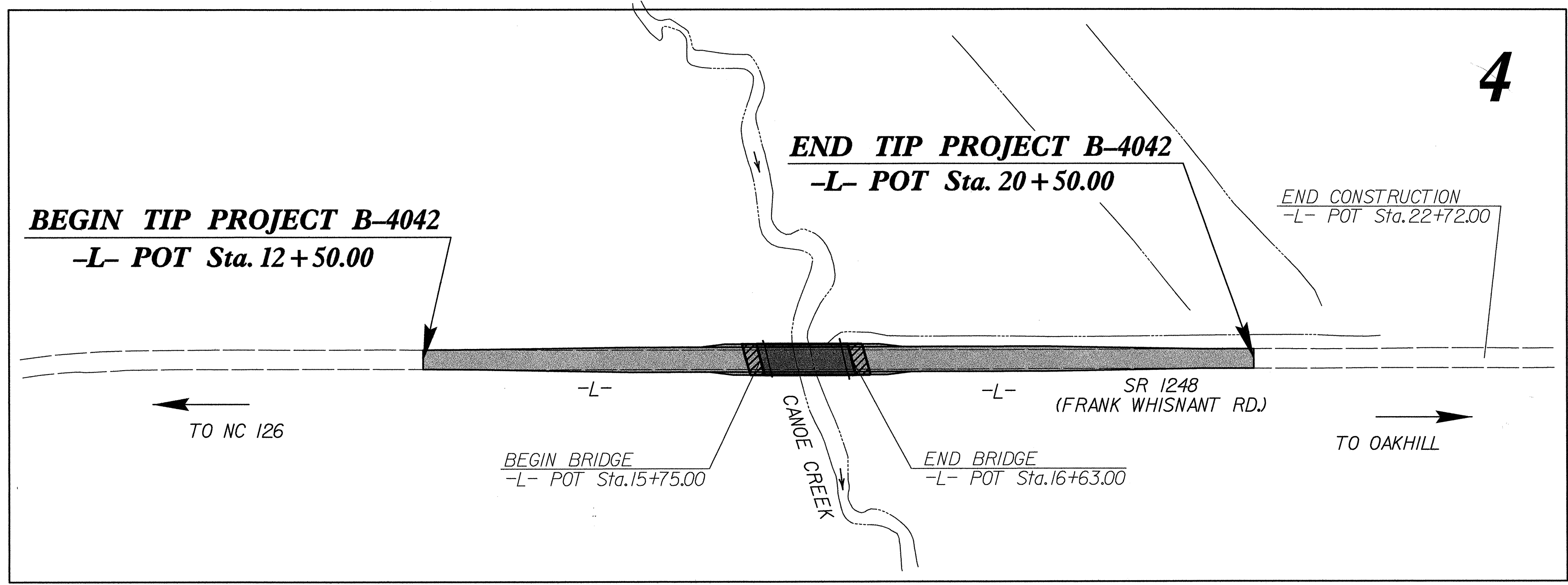
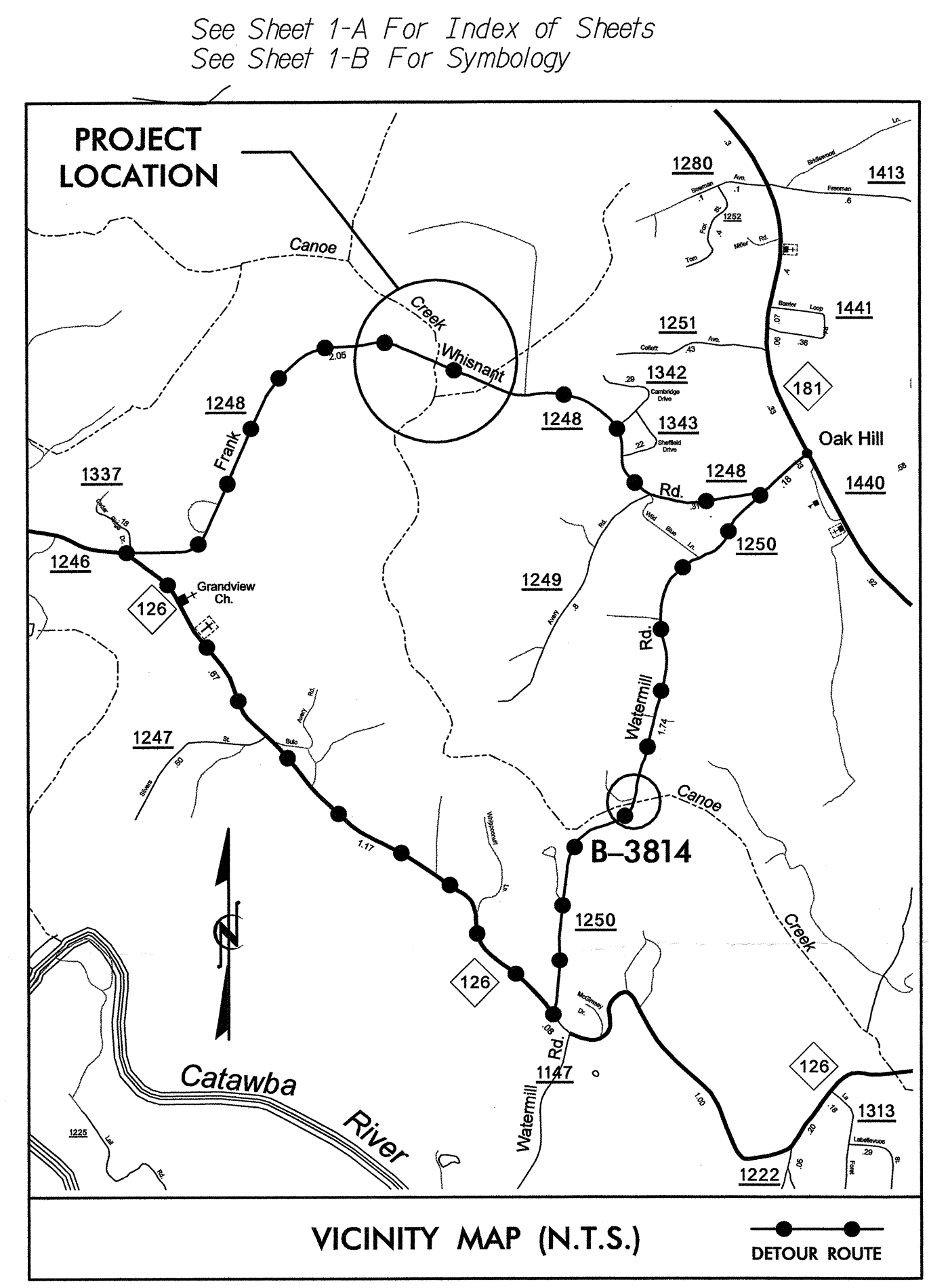
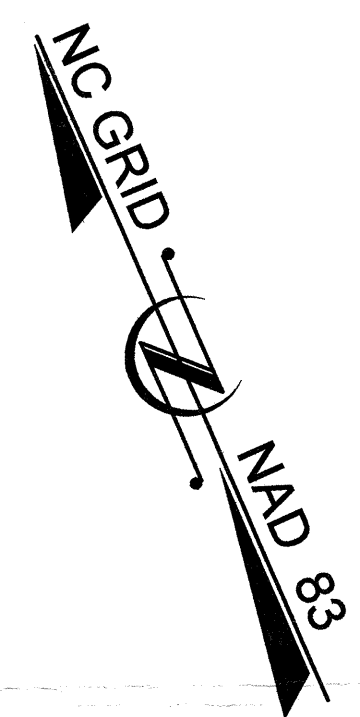


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4042	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33408.1.1	BRZ-1248(3)	PE	
33408.2.1	BRZ-1248(3)	RW, UTILITIES	
33408.3.1	BRZ-1248(3)	CONSTRUCTION	

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
BURKE COUNTY

**LOCATION: BRIDGE #274 AND APPROACHES OVER CANOE CREEK
 ON SR 1248 (FRANK WHISNANT ROAD)**

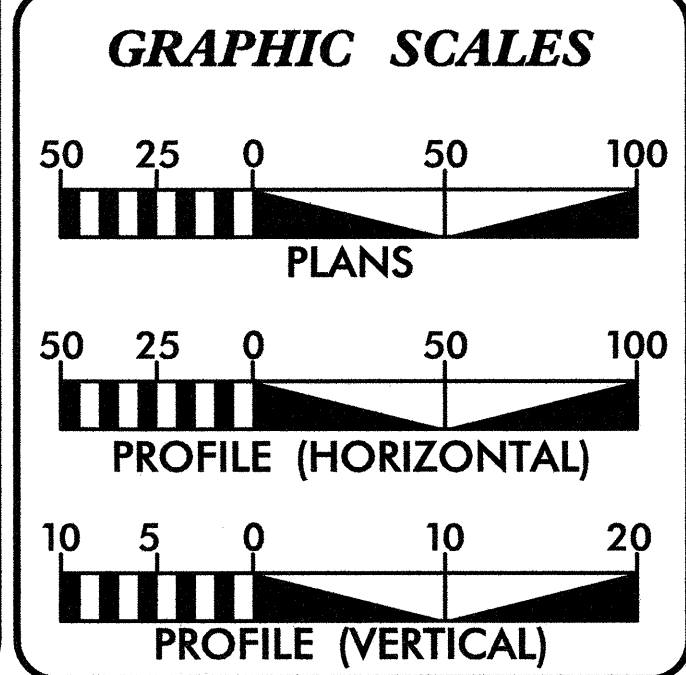
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE.



4

TIP PROJECT: B-4042
 CONTRACT: C201754

DESIGN EXCEPTIONS
 BRIDGE WIDTH



DESIGN DATA

ADT 2008 =	2,160
ADT 2028 =	3,030
DHV =	10 %
D =	60 %
T =	5 % *
V =	50 MPH

* (TTST 1% + DUAL 4%)
 FUNC CLASS=RURAL LOCAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4042	=	0.135 mi
LENGTH STRUCTURES TIP PROJECT B-4042	=	0.017 mi
TOTAL LENGTH TIP PROJECT B-4042	=	0.152 mi

Prepared For:
DIVISION OF HIGHWAYS
 1000 Birch Ridge Dr., Raleigh NC, 27610
 By:
MA ENGINEERING CONSULTANTS, INC.
 598 E. CHATHAM STREET, SUITE 137
 CARY, NORTH CAROLINA 27511
 (919) 297-0220

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 JANUARY 29, 2007

LETTING DATE:
 JANUARY 15, 2008

R.W. PORTER JR., PE
 PROJECT ENGINEER

K. S. HUTCHENS
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

10/23/07

10-23-07

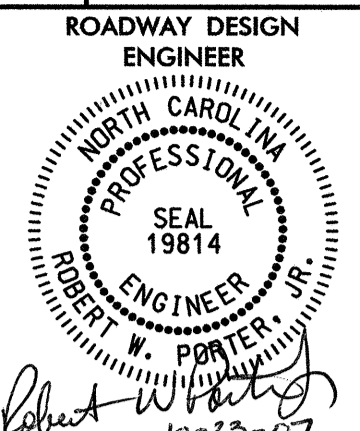
ROADWAY DESIGN ENGINEER

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

NCDOT CONTACT:
 MR. DOUG TAYLOR, PE - ENGINEERING COORDINATION - PROJECT ENGINEER - ROADWAY DESIGN UNIT

10/23/2007
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MA Engineering
CONSULTANTS, INC.
 598 East Chatham Street Suite 137 Cary, NC 27511
 Phone: 919.297.0220 Fax: 919.297.0221

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

2006 ROADWAY STANDARD DRAWINGS

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

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.

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:

CLEARING:

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

STD. NO. TITLE

- DIVISION 2 - EARTHWORK
 - 200.02 Method of Clearing - Method II
 - 225.02 Guide for Grading Subgrade - Secondary and Local
 - 225.04 Method of Obtaining Superelevation - Two Lane Pavement

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.

- DIVISION 3 - PIPE CULVERTS
 - 300.01 Method of Pipe Installation - Method 'A'
 - 310.10 Driveway Pipe Construction

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

- DIVISION 4 - MAJOR STRUCTURES
 - 422.10 Reinforced Bridge Approach Fills

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.

- DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
 - 560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I

UNDERDRAINS:

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

- DIVISION 6 - ASPHALT BASES AND PAVEMENTS
 - 654.01 Pavement Repairs

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.

- DIVISION 8 - INCIDENTALS
 - 806.01 Concrete Right-of-Way Marker
 - 806.02 Granite Right-of-Way Marker
 - 815.03 Pipe Underdrain and Blind Drain
 - 840.00 Concrete Base Pad for Drainage Structures
 - 840.29 Frames and Narrow Slot Flat Grates
 - 840.35 Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
 - 840.46 Traffic Bearing Precast Drainage Structure
 - 840.66 Drainage Structure Steps
 - 846.01 Concrete Curb, Gutter and Curb & Gutter
 - 846.04 Drop Inlet Installation in Shoulder Berm Gutter
 - 862.01 Guardrail Placement
 - 862.02 Guardrail Installation
 - 862.03 Structure Anchor Units
 - 862.04 Anchoring End of Guardrail - B-77 and B-83 Anchor Units

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:
 AT & T of NC - Telephone
 City of Morganton - Water / Sanitary Sewer
 Rutherford Electric Membership Corp. (REMC) - Electric

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 CONTRACT.

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	SURVEY CONTROL SHEET
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2-A	DETAIL OF ANCHORAGE FOR FRAMES - BRICK OR CONCRETE
3	SUMMARY OF QUANTITIES
3-A	SUMMARIES OF EARTHWORK, PAVEMENT REMOVAL, DRAINAGE, AND GUARDRAIL
4	PLAN AND PROFILE SHEET
TCP-1 THRU TCP-4	TRAFFIC CONTROL PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
UO-1 THRU UO-2	UTILITIES BY OTHERS PLANS
X-1	CROSS-SECTION SUMMARY
X-2 THRU X-6	CROSS-SECTIONS
S-1 THRU S-18	STRUCTURE PLANS

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	○ EIP
Property Corner	-----
Property Monument	EDM
Parcel/Sequence Number	(123)
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	○
Swamp Marsh	⋆
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	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	⊕
Storm Sewer	S

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	PH
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	PH
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	PH
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

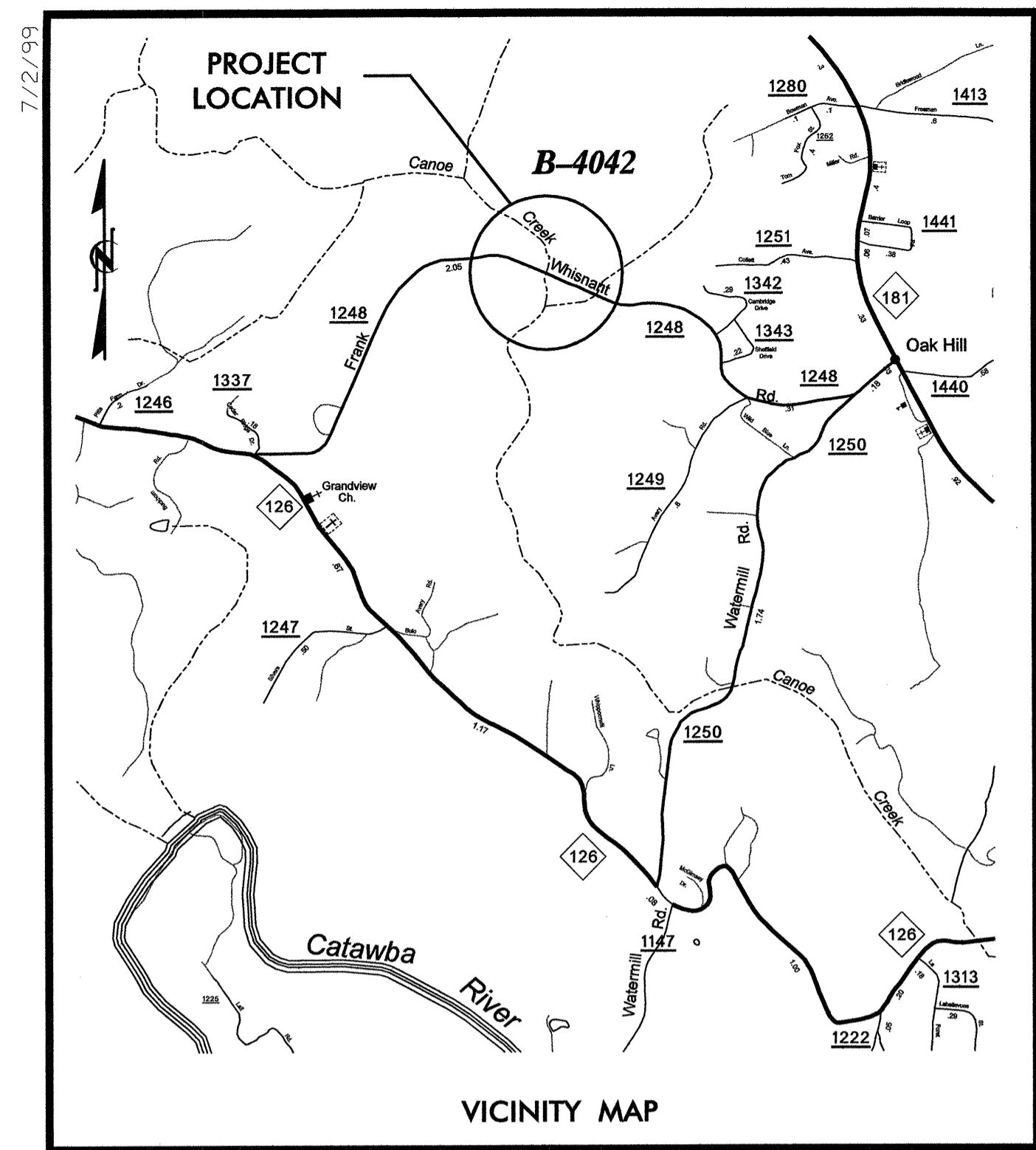
SANITARY SEWER:

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	UTIL
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-4042



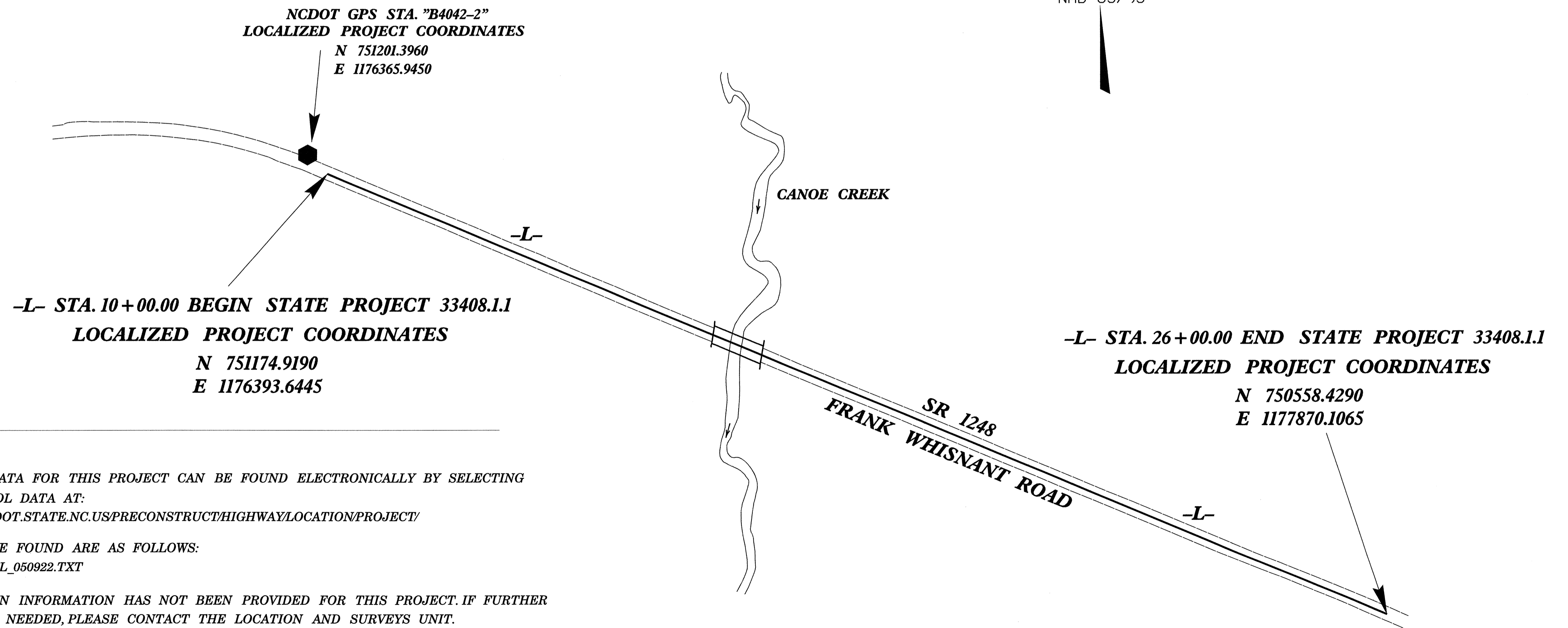
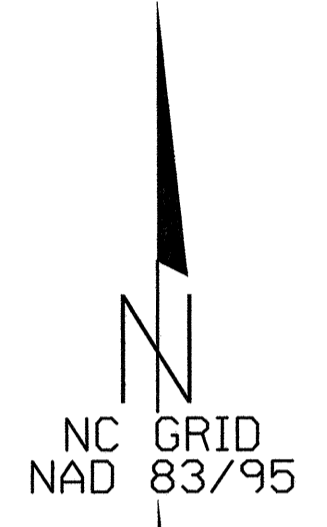
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B4042-1" WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 750432.6680(ft) EASTING: 1178173.5730(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999754211 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4042-1" TO -L- STATION 10+00.00 IS N 67°21'47.9" W 1928.49' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
GPS2		B4042-2	751201.3960	1176365.9450	1121.73	OUTSIDE PROJECT LIMITS	
BL12		BL-12	751069.8990	1176606.9540	1101.37	12+37.30	14.72 RT
BL13		BL-13	750939.7250	1176913.9150	1092.57	15+70.72	16.57 RT
BL14		BL-14	750772.0010	1177324.2620	1091.65	20+14.01	13.24 RT
BL15		BL-15	750628.9801	1177665.2160	1096.68	23+83.75	13.84 RT

.....
 BM1 ELEVATION = 1125.81
 N 751195 E 1176307
 L STATION 10+00
 N 76° 59' 36.7" W DIST 89.06
 ETCHED CROW'S FOOT ON TOP STORM GRATE

 BM2 ELEVATION = 1097.45
 N 750636 E 1177738
 L STATION 24+48 21 LEFT
 ETCHED CROW'S FOOT NE CORNER HEADWALL



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

THE FILES TO BE FOUND ARE AS FOLLOWS:
 B4042_LS_CONTROL_050922.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)

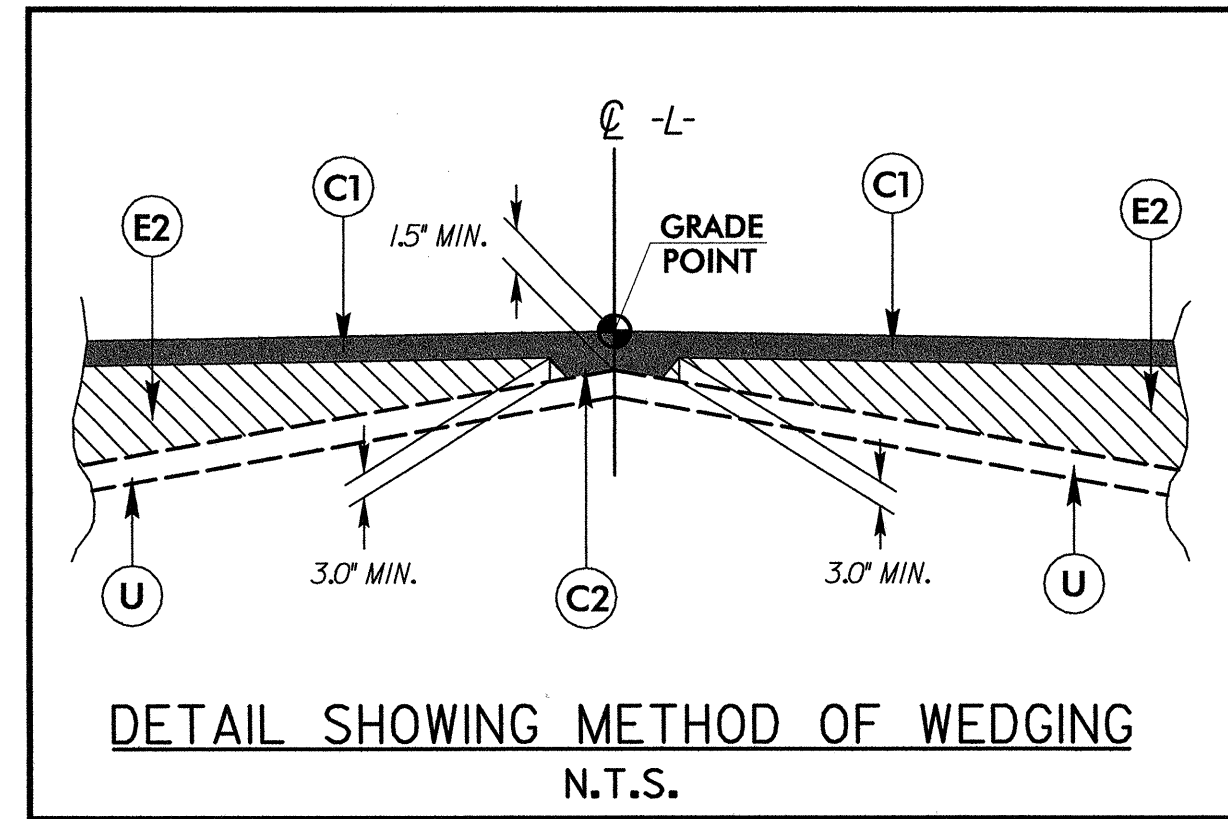
NOTE: DRAWING NOT TO SCALE

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 10/23/2007
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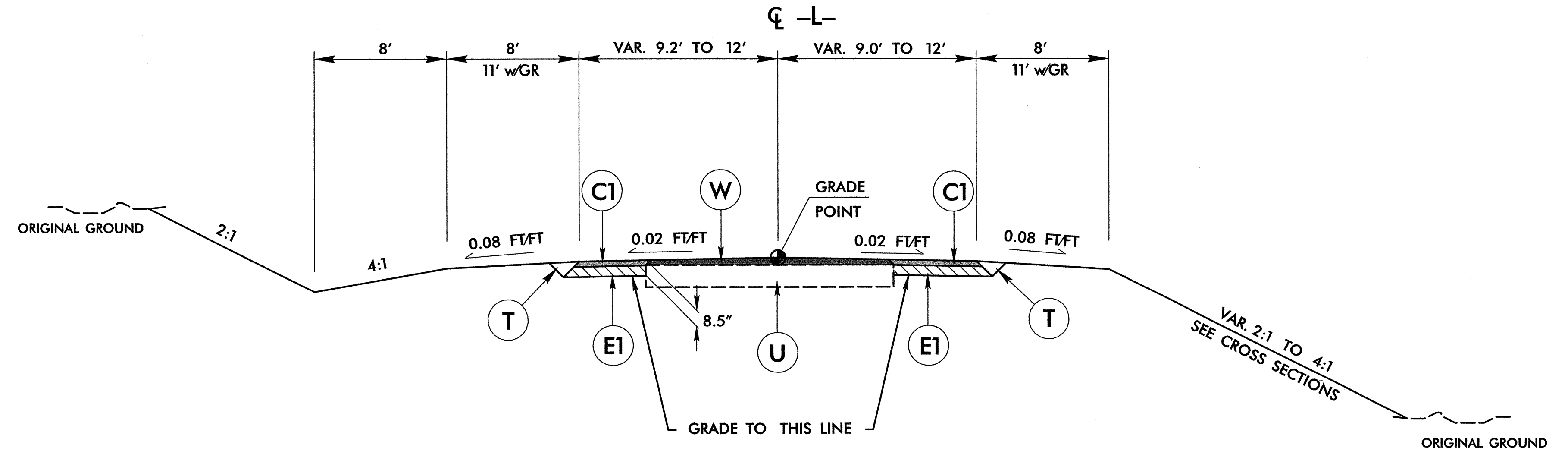
7/22/99

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3.00" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS PER SQUARE YARD IN EACH OF TWO LAYERS.
C2	PROP. VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS PER SQUARE YARD PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1.0" OR GREATER THAN 1.5" IN DEPTH.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS PER SQUARE YARD.
E2	PROP. VARIABLE DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS PER SQUARE YARD PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3.0" OR GREATER THAN 5.5" IN DEPTH.
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

PAVEMENT EDGE SLOPES AND TRENCH SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

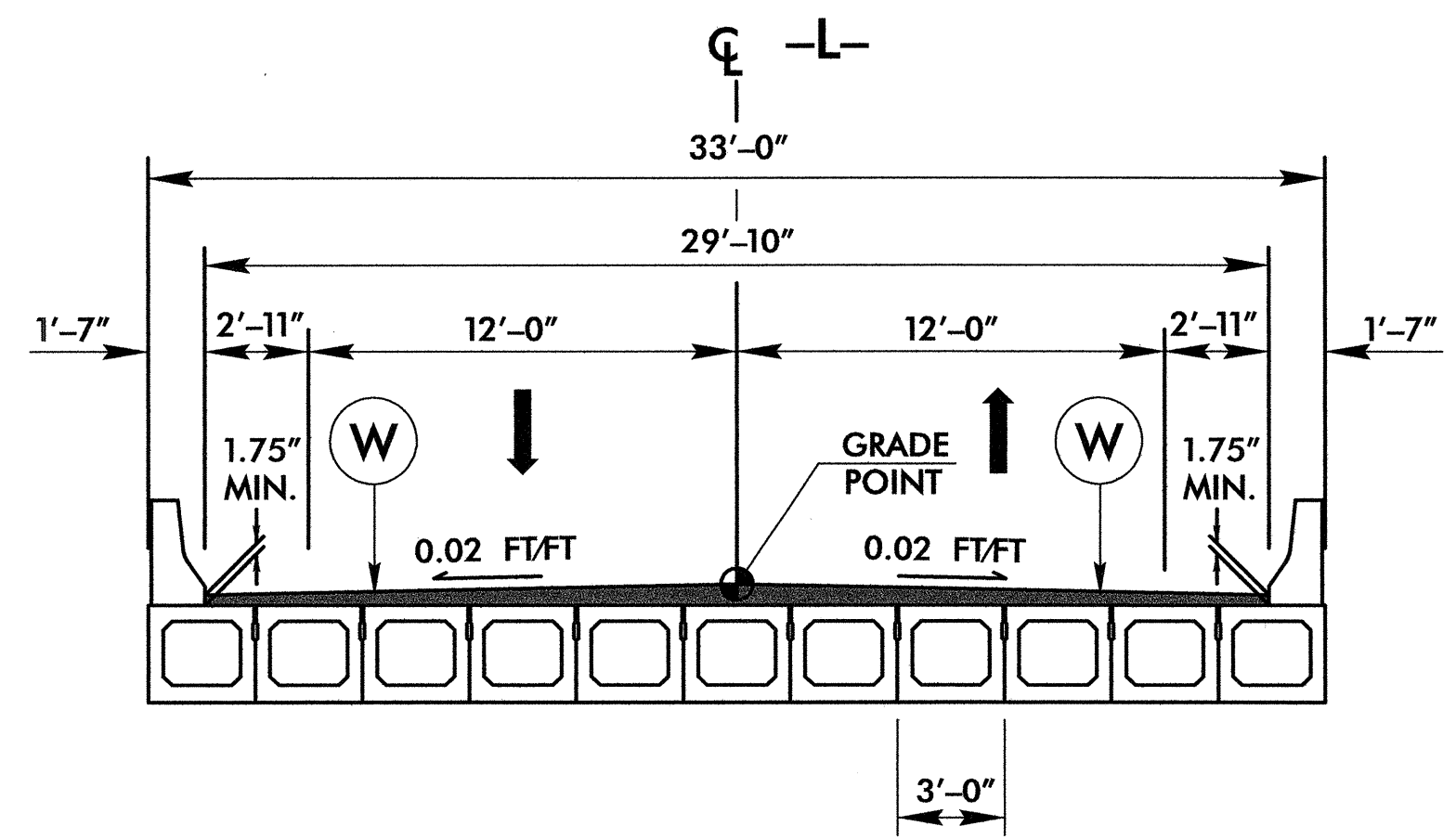


PROJECT REFERENCE NO. B-4042	SHEET NO. 2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19814 ROBERT W. PORTER, III 10/23/07	PAVEMENT DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 1303 DAN-CHI CHEN 10/30/07
598 East Chatham Street Suite 137 Cary, NC 27511 Phone: 919.297.0220 Fax: 919.297.0221	



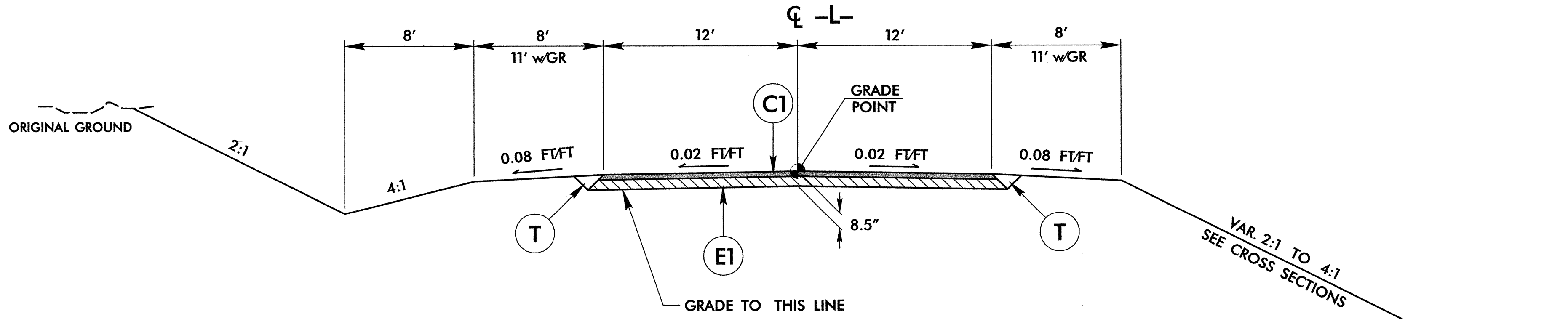
TYPICAL SECTION NO. 1

FROM -L- STA. 13+00.00 TO STA. 14+50.00
 FROM -L- STA. 17+50.00 TO STA. 20+00.00
 USE (C2) TO BLEND TO EXISTING:
 FROM -L- STA. 12+50.00 TO STA. 13+00.00
 FROM -L- STA. 20+00.00 TO STA. 20+50.00



TYPICAL SECTION ON STRUCTURE

FROM -L- STA. 15+74.00 TO STA. 16+64.00



TYPICAL SECTION NO. 2

FROM -L- STA. 14+50.00 TO STA. 15+75.00 (BEGIN BRIDGE)
 FROM -L- STA. 16+63.00 (END BRIDGE) TO STA. 17+50.00

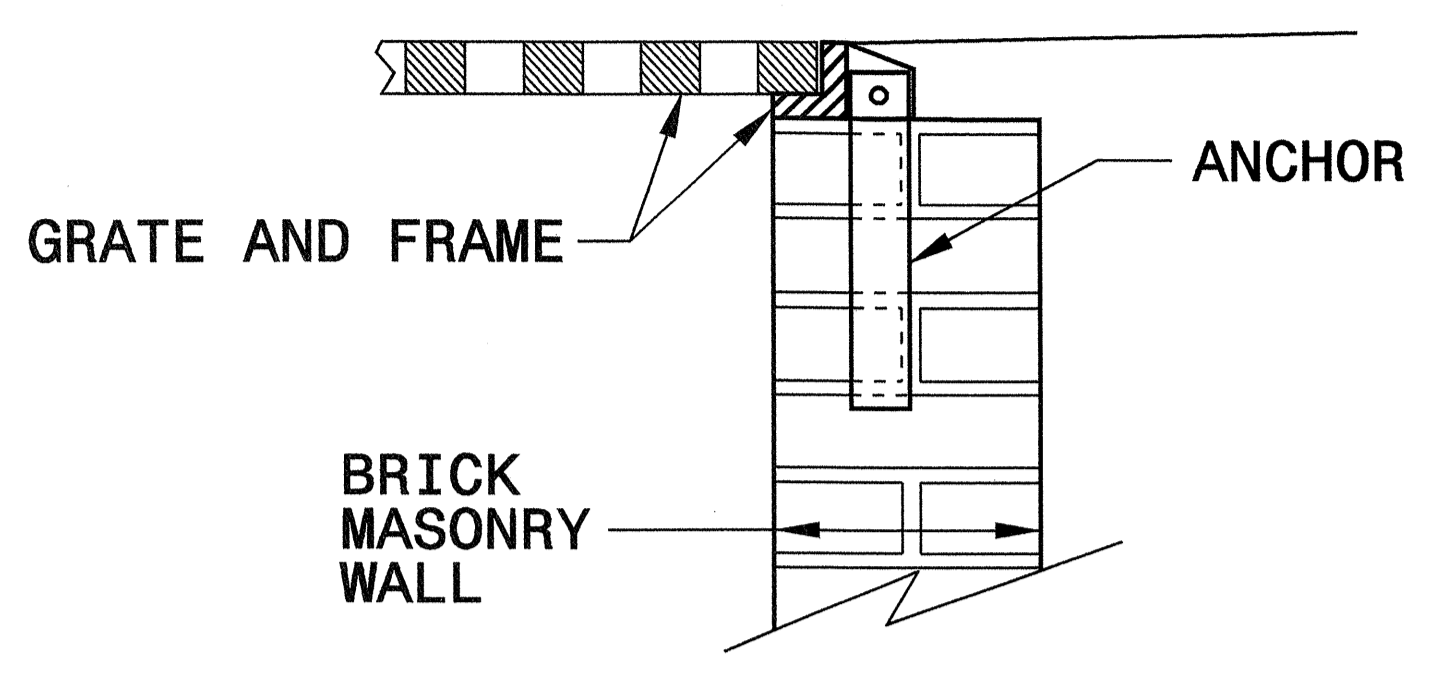
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

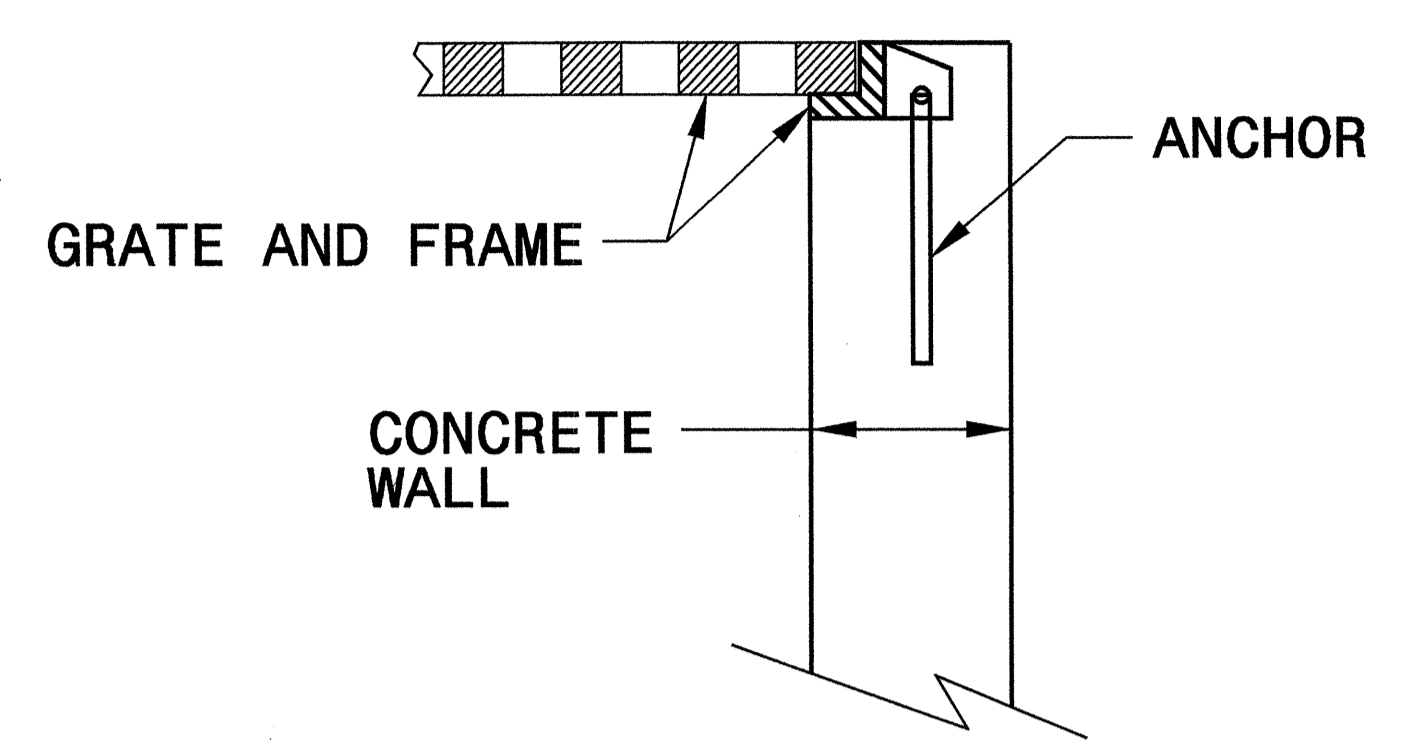
ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE

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

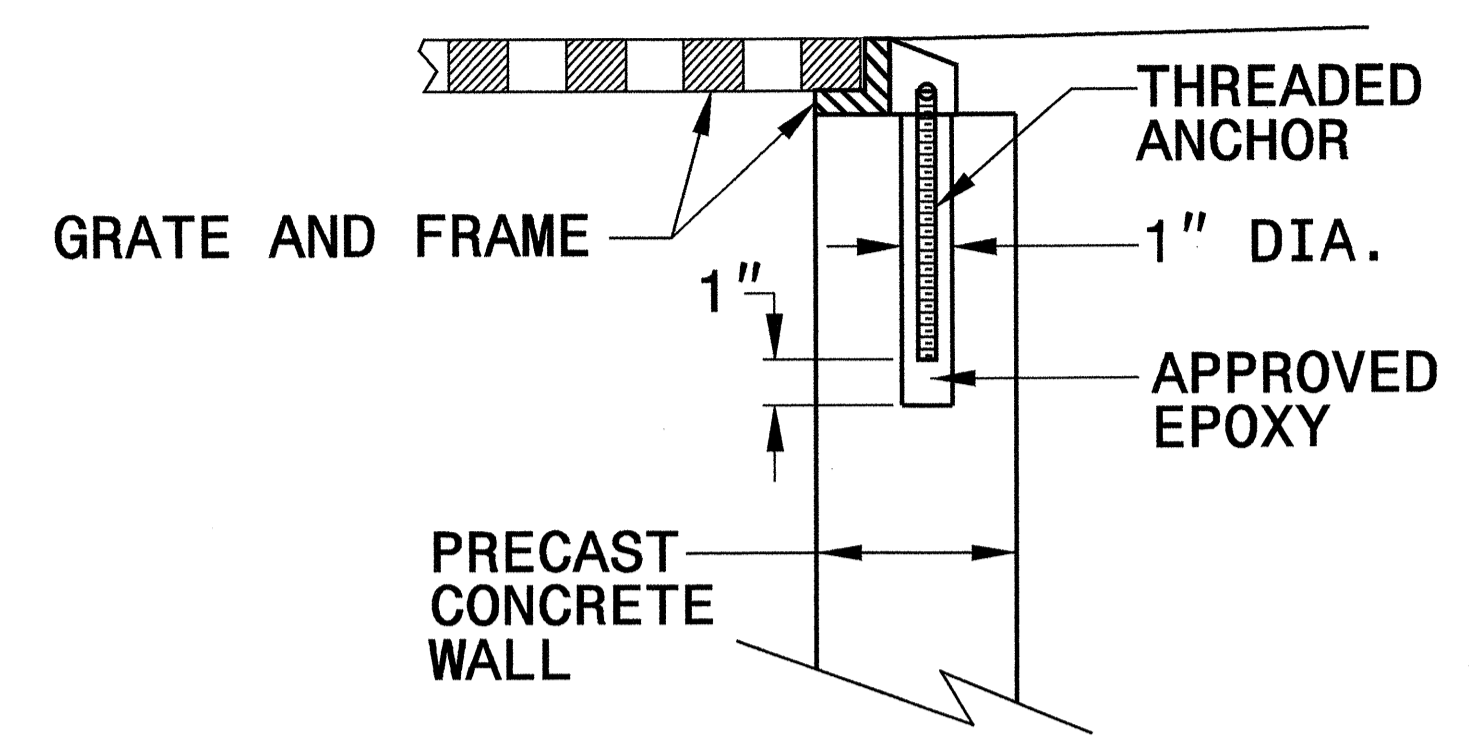
ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE



BRICK MASONRY CONSTRUCTION



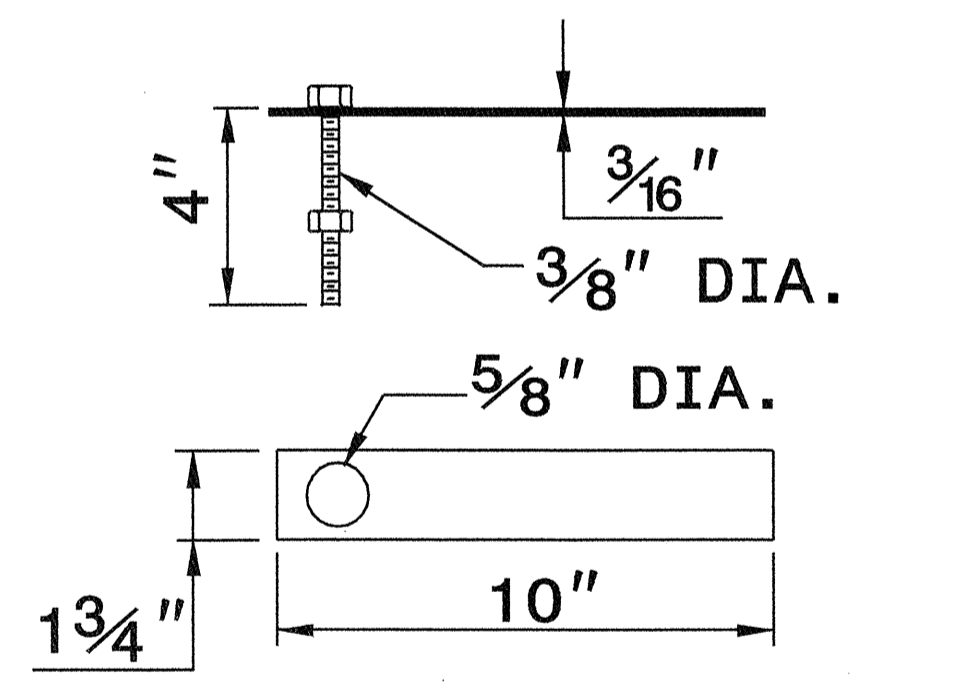
CONCRETE CONSTRUCTION



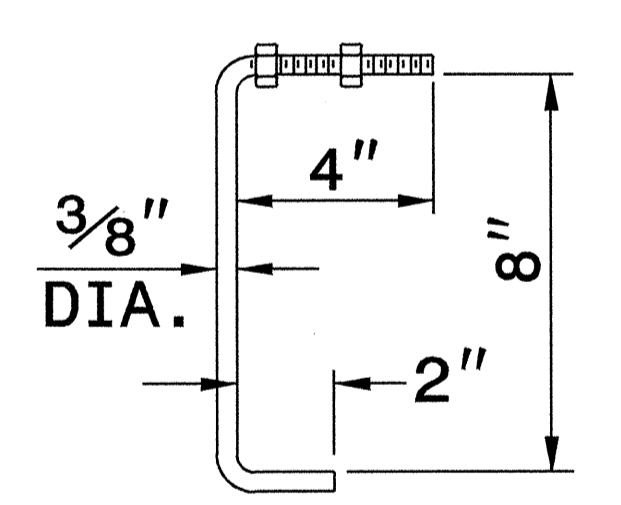
PRECAST CONCRETE CONSTRUCTION

DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

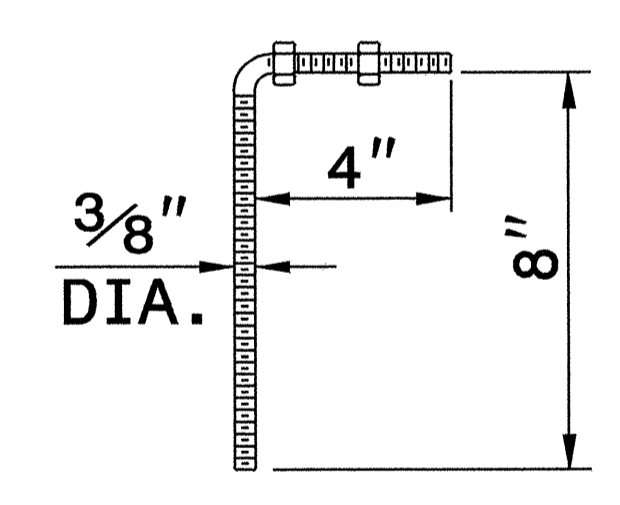
NOTE:
CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.



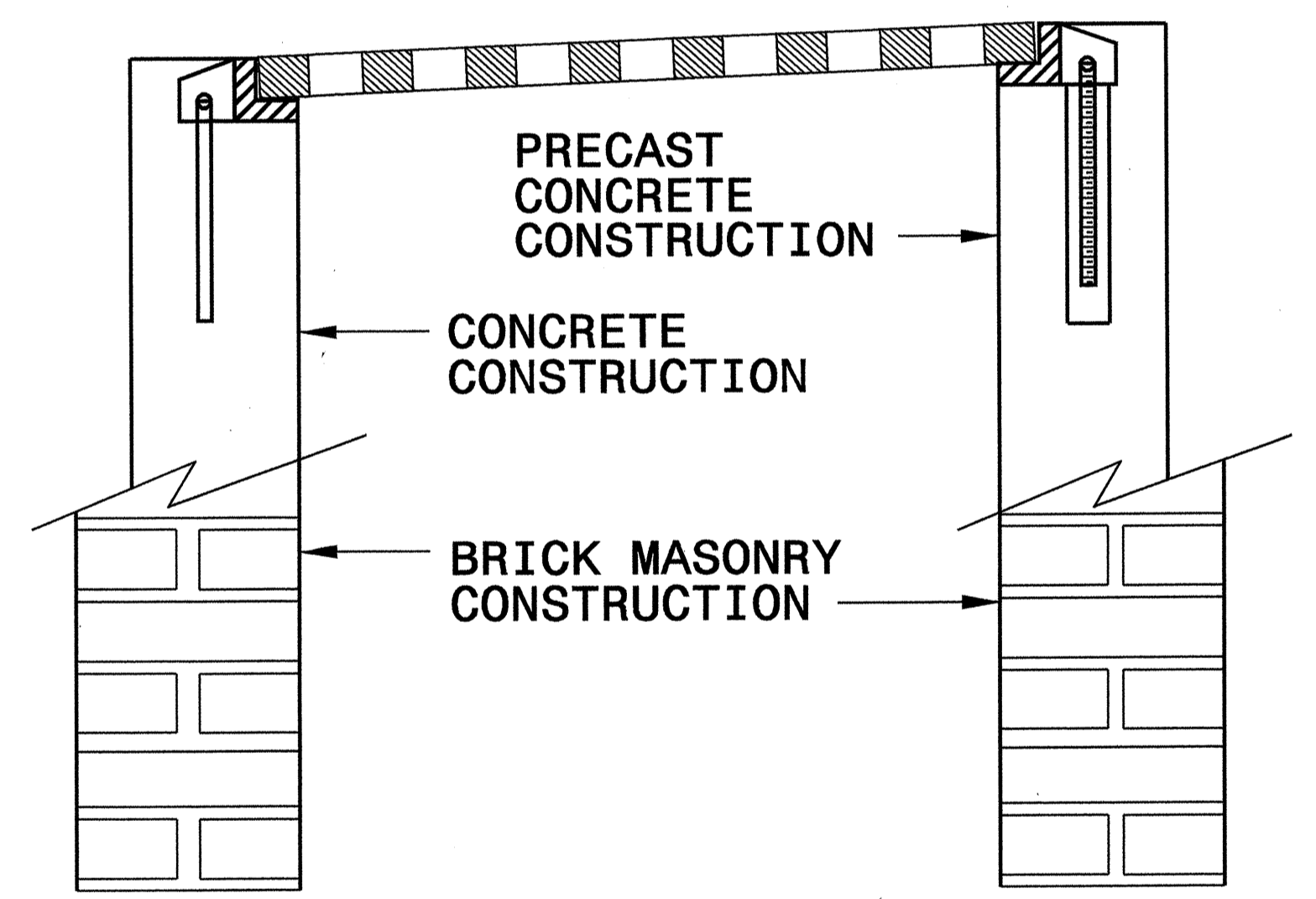
MASONRY ANCHOR
3/8" DIA. BOLT WITH PLATE



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

01-MAR-2007 09:04
s:\contracts\06\special_details\enward\stds\06\stds to special_details\084025 anchorage for frames\0840d25.dgn
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PROFESSIONAL SEAL
022966
ENGINEER
JOEL S. HONEYCUTT
10/20/07

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

SEE PLATE FOR TITLE

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

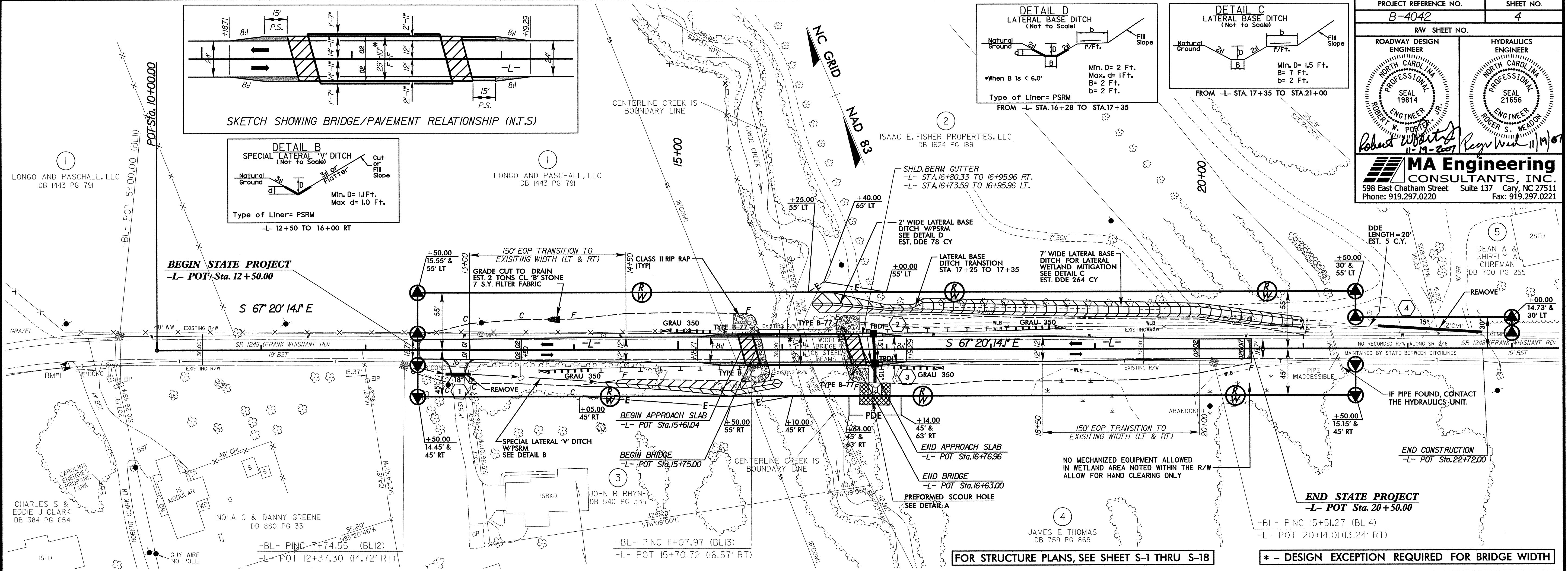
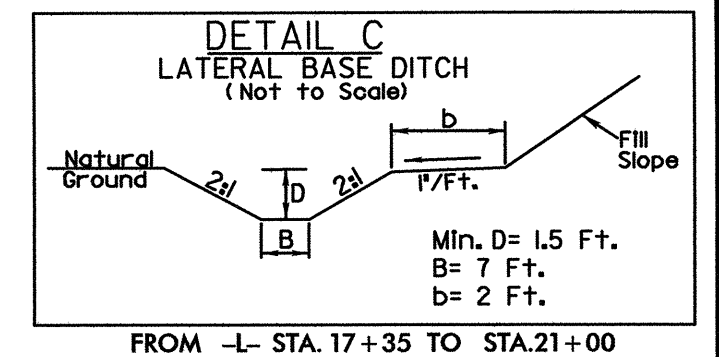
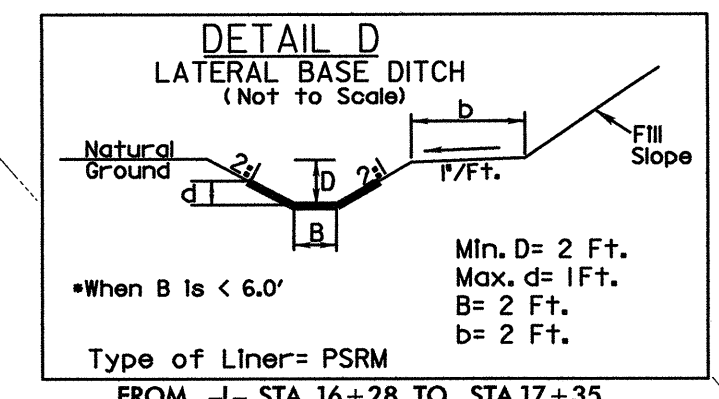
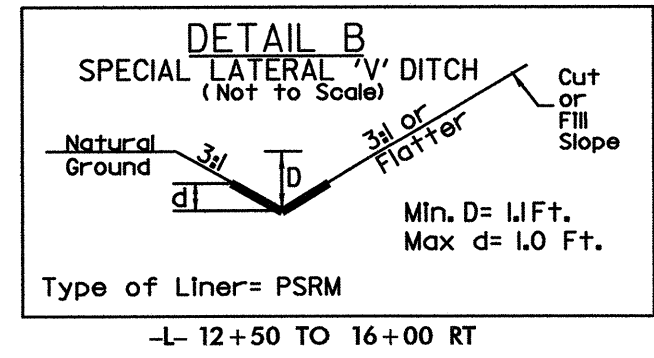
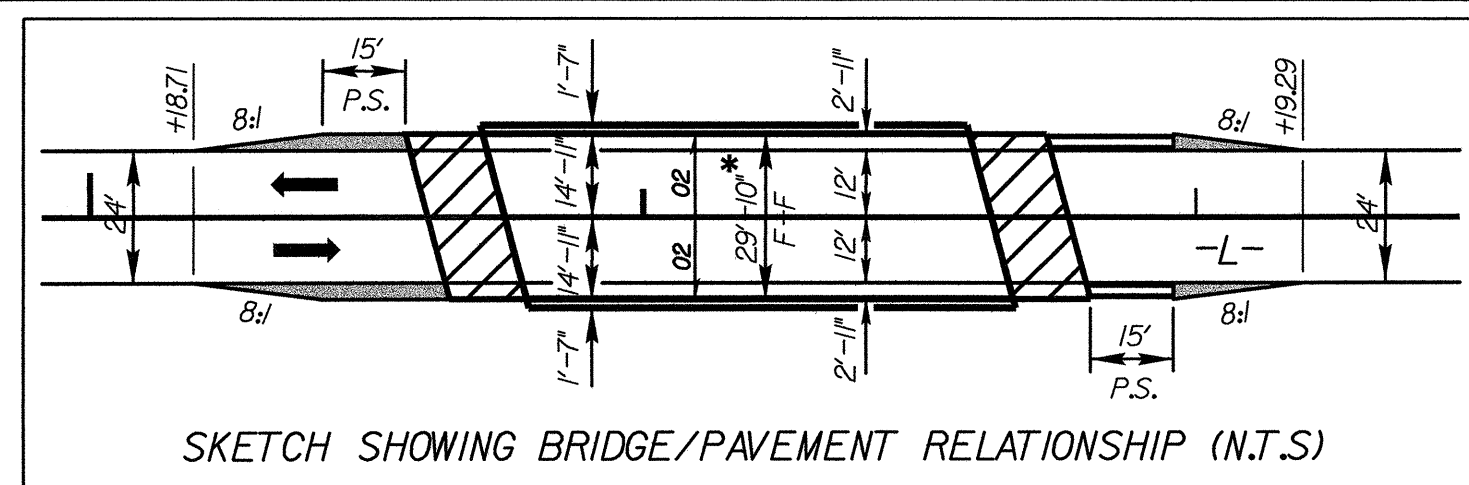
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201754									
ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	2066000000-N	815	3	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
0029000000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (16+19.00)	2077000000-E	815	18	LF	6" OUTLET PIPE (SUBDRAINS)
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING	2286000000-N	840	2	EA	MASONRY DRAINAGE STRUCTURES
0057000000-E	226	600	CY	UNDERCUT EXCAVATION	2367000000-N	840	2	EA	FRAME WITH TWO GRATES, STD 840.29
0063000000-N	SP	Lump Sum		GRADING	2556000000-E	846	40	LF	SHOULDER BERM GUTTER
0080000000-E	SP	600	TON	CLASS IV SUBGRADE STABILIZATION	3030000000-E	862	375	LF	STEEL BM GUARDRAIL
0106000000-E	230	2,000	CY	BORROW EXCAVATION	3150000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS
0134000000-E	240	350	CY	DRAINAGE DITCH EXCAVATION	3270000000-N	SP	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
0195000000-E	265	500	CY	SELECT GRANULAR MATERIAL	3317000000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77
0196000000-E	270	500	SY	FABRIC FOR SOIL STABILIZATION	3649000000-E	876	5	TON	RIP RAP, CLASS B
0318000000-E	300	20	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	3656000000-E	876	160	SY	FILTER FABRIC FOR DRAINAGE
0343000000-E	310	100	LF	15" SIDE DRAIN PIPE	3659000000-N	SP	1	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
0344000000-E	310	24	LF	18" SIDE DRAIN PIPE	4025000000-E	901	10	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (E)
0366000000-E	310	48	LF	15" RC PIPE CULVERTS, CLASS III	4072000000-E	903	26	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
0995000000-E	340	120	LF	PIPE REMOVAL	4102000000-N	904	2	EA	SIGN ERECTION, TYPE E
1220000000-E	545	50	TON	INCIDENTAL STONE BASE	4155000000-N	907	6	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
1489000000-E	610	296	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	4400000000-E	1110	321	SF	WORK ZONE SIGNS (STATIONARY)
1525000000-E	610	350	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A	4410000000-E	1110	94	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
1560000000-E	620	40	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	4430000000-N	1130	6	EA	DRUMS
1693000000-E	654	25	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	4435000000-N	1135	6	EA	CONES
2000000000-N	806	10	EA	RIGHT OF WAY MARKERS	4445000000-E	1145	80	LF	BARRICADES (TYPE III)
2022000000-E	815	300	CY	SUBDRAIN EXCAVATION	4810000000-E	1205	6,400	LF	PAINT PAVEMENT MARKING LINES (4")
2033000000-E	815	220	CY	SUBDRAIN FINE AGGREGATE	6000000000-E	1605	925	LF	TEMPORARY SILT FENCE
2044000000-E	815	1,300	LF	6" PERFORATED SUBDRAIN PIPE	6006000000-E	1610	75	TON	STONE FOR EROSION CONTROL, CLASS A
2055000000-E	815	39	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS	6009000000-E	1610	230	TON	STONE FOR EROSION CONTROL, CLASS B
					6012000000-E	1610	85	TON	SEDIMENT CONTROL STONE
					6015000000-E	1615	2.5	ACR	TEMPORARY MULCHING
					6018000000-E	1620	100	LB	SEED FOR TEMPORARY SEEDING
					6021000000-E	1620	0.5	TON	FERTILIZER FOR TEMPORARY SEEDING
					6029000000-E	SP	200	LF	SAFETY FENCE
					6030000000-E	1630	655	CY	SILT EXCAVATION
					6036000000-E	1631	520	SY	MATting FOR EROSION CONTROL
					6038000000-E	SP	325	SY	PERMANENT SOIL REINFORCEMENT MAT
					6042000000-E	1632	40	LF	1/4" HARDWARE CLOTH
					6071030000-E	SP	240	LF	COIR FIBER BAFFLES
					6084000000-E	1660	2.5	ACR	SEEDING & MULCHING
					6087000000-E	1660	1.5	ACR	MOWING
					6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
					6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
					6096000000-E	1662	75	LB	SEED FOR SUPPLEMENTAL SEEDING
					6108000000-E	1665	1.75	TON	FERTILIZER TOPDRESSING
					6114000000-N	SP	2	HR	SPECIALIZED HAND MOWING
					6117000000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL

5/28/99

10/23/2007
P:\Projects\B4042_rdy_sum_3.dgn
P:\Projects\B4042_rdy_sum_3.dgn



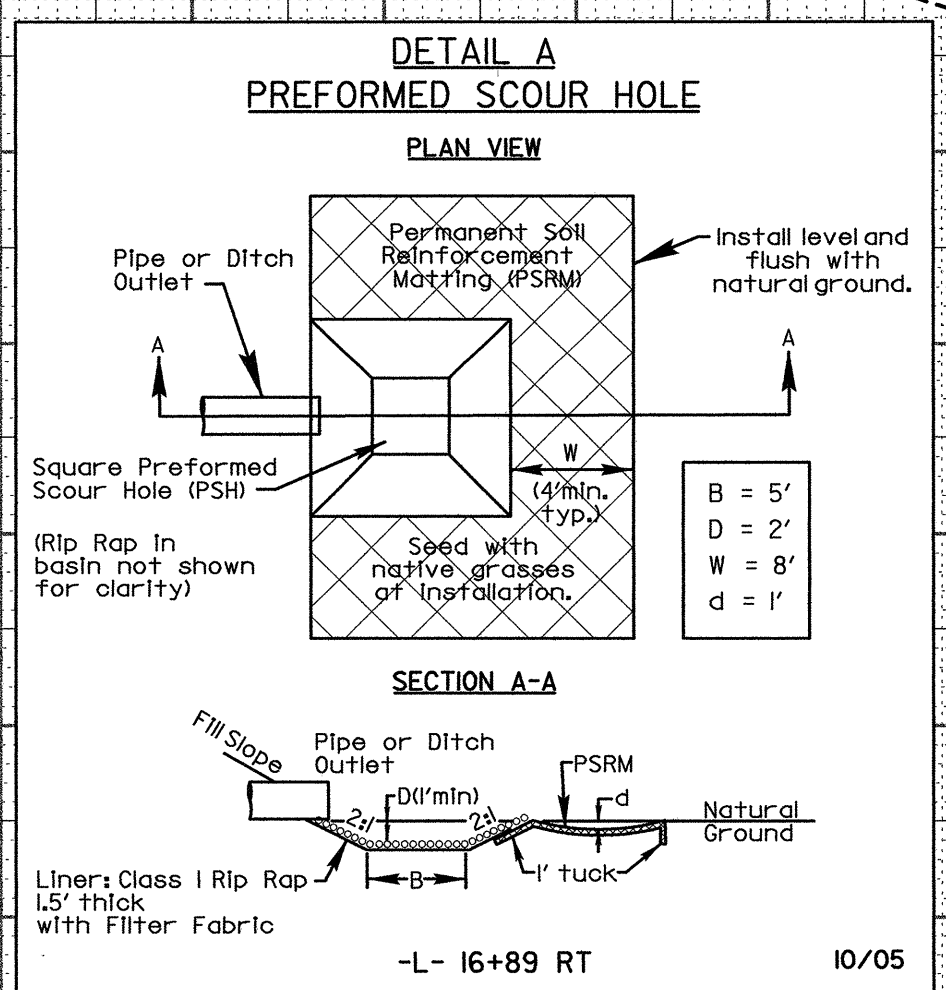
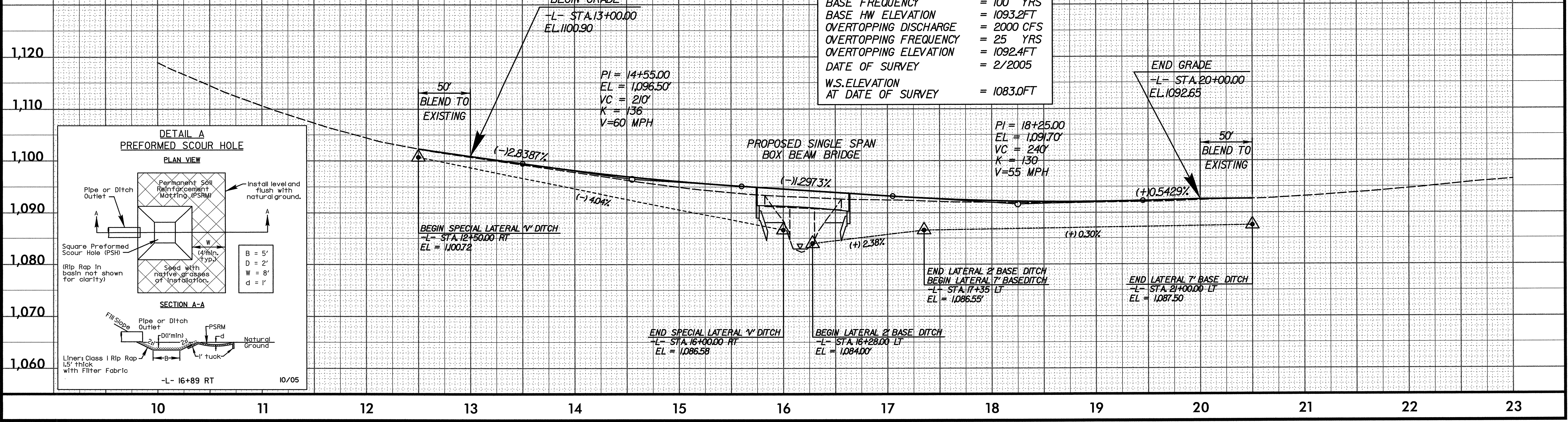
BM#1
ETCHED CROW'S FOOT ON TOP STORM
GRATE SOUTH EDGE OF SR 1248.
N 76° 59' 36.7" W, 89.06'
FROM -L- STA. 10+00.00.
ELEV. 1125.81'

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 2000 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 1092.4 FT
BASE DISCHARGE	= 3000 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 1093.2 FT
OVERTOPPING DISCHARGE	= 2000 CFS
OVERTOPPING FREQUENCY	= 25 YRS
OVERTOPPING ELEVATION	= 1092.4 FT
DATE OF SURVEY	= 2/2005
W.S. ELEVATION AT DATE OF SURVEY	= 1083.0 FT

BM#2
ETCHED CROW'S FOOT IN CORNER OF
HEADWALL, NORTHEAST TOP FACE.
-L- STA. 24+47.86 (20.55' LEFT)
ELEV. 1097.45'

LEFT DITCH -----
RIGHT DITCH -----



REVISIONS

7/2/99
11/9/2007
10/05