

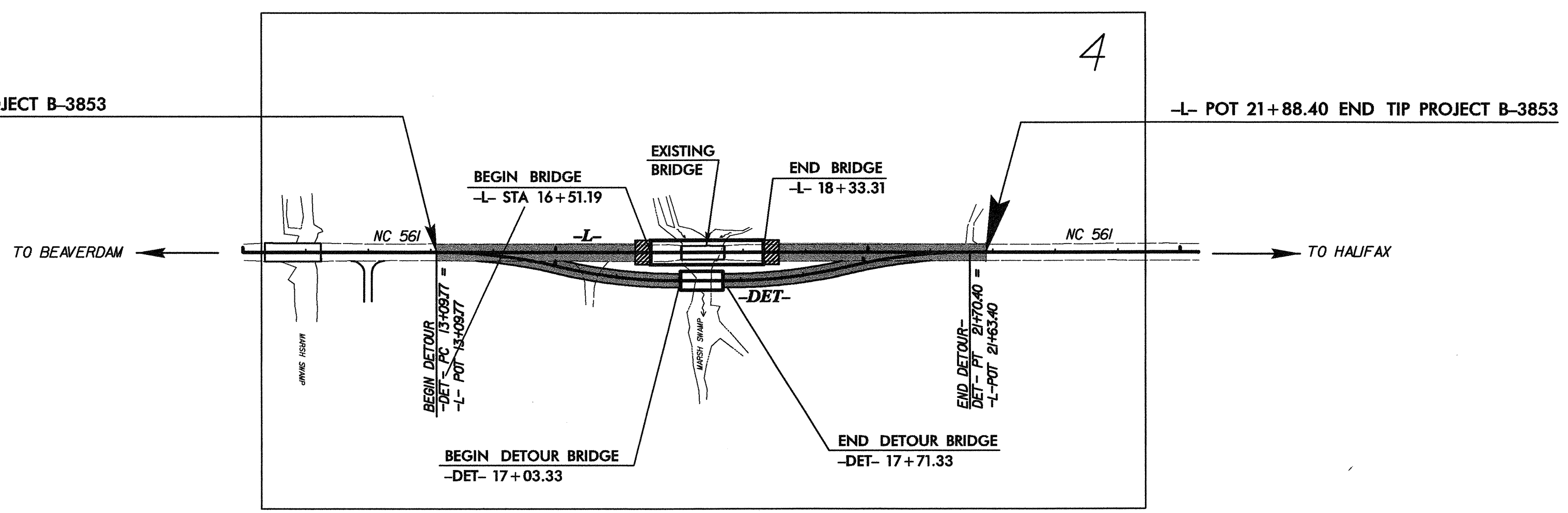
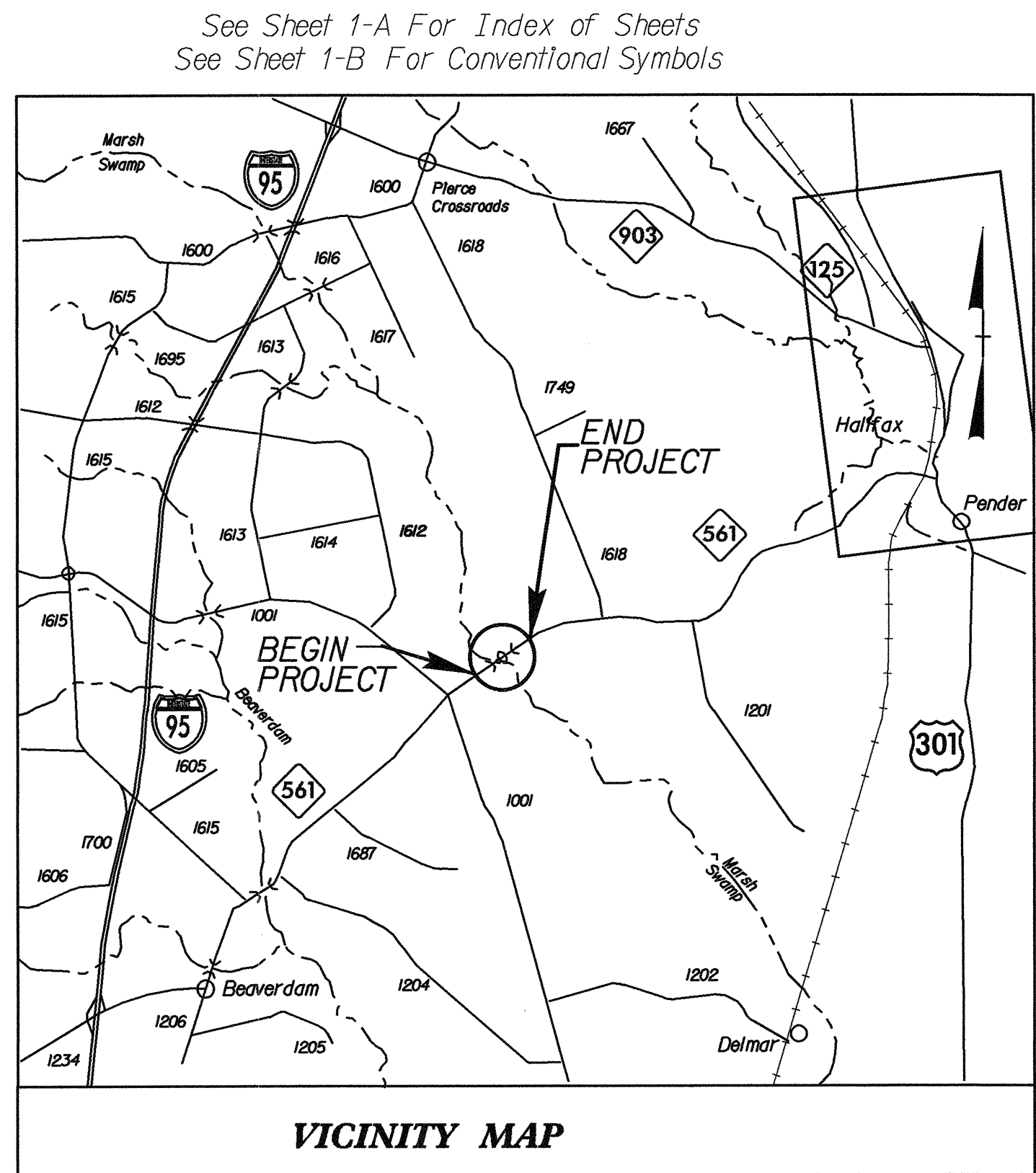
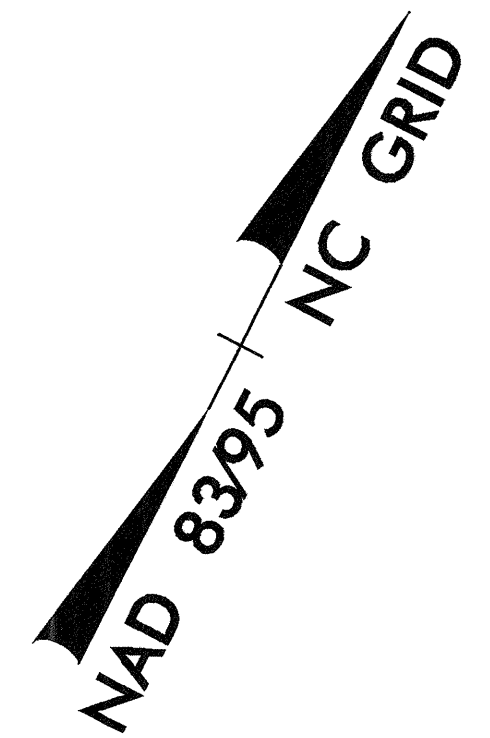
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3853	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33300.1.1	BRSTP-561(1)	PE	
33300.2.2	BRSTP-561(13)	RW & UTILITY	
33300.3.1	BRSTP-561(14)	CONST.	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HALIFAX COUNTY

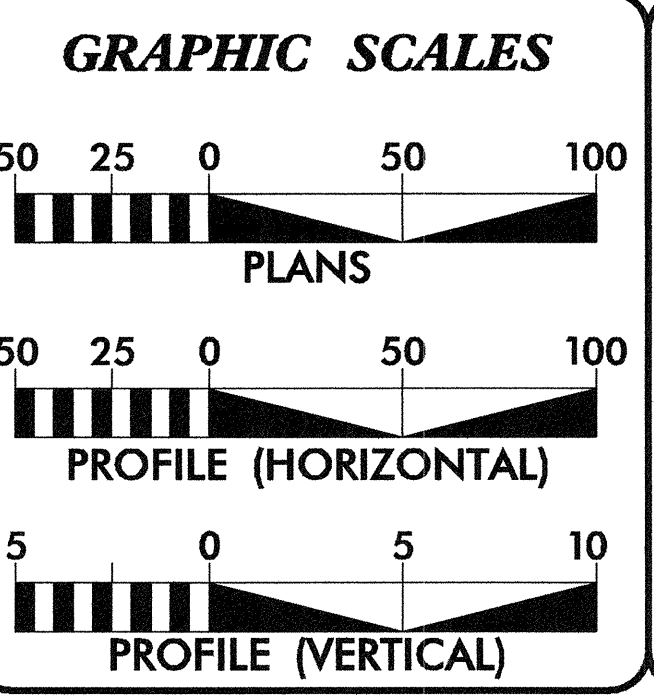
LOCATION: BRIDGE NO. 82 OVER MARSH SWAMP AND APPROACHES ON NC 561

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



NOTE: BEGIN CONSTRUCTION 1500' PRIOR TO -L- STA 13+00.00
END CONSTRUCTION 1500' BEYOND -L- STA 21+64.00
SEE TRAFFIC CONTROL SHEETS TCP-4 & TCP-5

NCDOT CONTACT: C. S. HOUSER, PE



DESIGN DATA

ADT 2007 =	1,650
ADT 2027 =	2,600
DHV =	10 %
D =	60 %
T =	8 %
V =	60 MPH
* TTST 4%	DUAL 4%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-3853	=	0.132 MI
LENGTH STRUCTURE TIP PROJECT B-3853	=	0.034 MI
LENGTH TIP PROJECT B-3853	=	0.166 MI

Prepared in the Office of:

W.K. DICKSON
ENGINEERS PLANNERS SURVEYORS

3101 JOHN HUMPHRIES WYND
RALEIGH, NC 27612
PHONE: (919) 782-0495
FAX: (919) 782-9672

ATLANTA, GA
CHARLOTTE, NC
COLUMBIA, SC
HICKORY, NC
WILMINGTON, NC

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 16, 2005

LETTING DATE:
APRIL 17, 2007

Tommy Register, PE
PROJECT ENGINEER

Mickey Dawes
PROJECT DESIGN ENGINEER

HYDRAULIC ENGINEER

ROY W. WEADON
12/31/07

ROADWAY DESIGN ENGINEER

TOMMY REGISTER
12/31/07

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

ant miller P.E.
STATE DESIGN ENGINEER

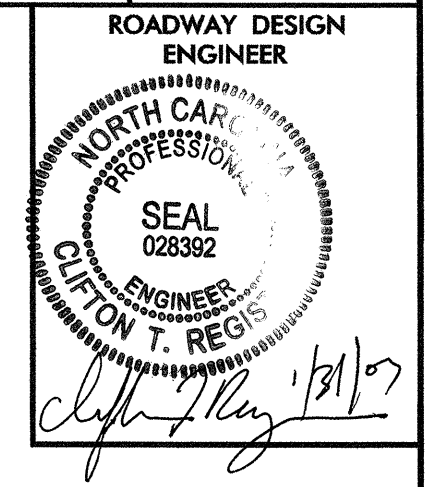
**DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**

APPROVED
DIVISION ADMINISTRATOR

DATE

CONTRACT: C201565
T.I.P. NO. B-3853

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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 THRU 2-A	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2-B	DETOUR PLAN
3	SUMMARY OF QUANTITIES
3-A	SUMMARY OF EARTHWORK, SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL GUARDRAIL SUMMARY
3-B	DRAINAGE QUANTITIES
4	PLAN SHEET
5	PROFILE SHEET
TCP-1 THRU TCP-6	TRAFFIC CONTROL PLANS
EC-1 THRU EC-4	EROSION CONTROL PLANS
RF-1	REFORESTATION PLAN
UC-1 THRU UC-3	UTILITY CONSTRUCTION PLANS
X-1	CROSS SECTION SUMMARY SHEET
X-2 THRU X-6	CROSS SECTION SHEETS
S-1 THRU S-22	STRUCTURE PLANS

GENERAL NOTES

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

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.

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 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 CAROLINA TELEPHONE & TELEGRAPH COMPANY (CT&T)
COUNTY OF HALIFAX
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

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

ROADWAY ENGLISH STANDARDS

2006 ROADWAY STANDARD DRAWINGS
EFF. 07-18-06

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	
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
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.20	Frames and Wide Slot Flat Grates
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.45	Precast Drainage Structure
846.01	Concrete Curb, Gutter and Curb & 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
876.02	Guide for Rip Rap at Pipe Outlets
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs

3/15/06

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	_____
County Line	_____
Township Line	_____
City Line	_____
Reservation Line	_____
Property Line	_____
Existing Iron Pin	○ EP
Property Corner	_____ X
Property Monument	□ ECM
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	○ S
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	○
Swamp Marsh	—
Proposed Lateral, Tail, Head Ditch	— FUM —
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	— (R/W) —
Proposed Right of Way Line with Iron Pin and Cap Marker	— (R/W) — ▲
Proposed Right of Way Line with Concrete or Granite Marker	— (R/W) — ●
Existing Control of Access	— (C/A) —
Proposed Control of Access	— (C/A) —
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) —
Proposed Wheel Chair Ramp Curb Cut	— (WCC) —
Curb Cut for Future Wheel Chair Ramp	— (CCFR) —
Existing Metal Guardrail	— T —
Proposed Guardrail	— T —
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	— S —
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	□
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 —

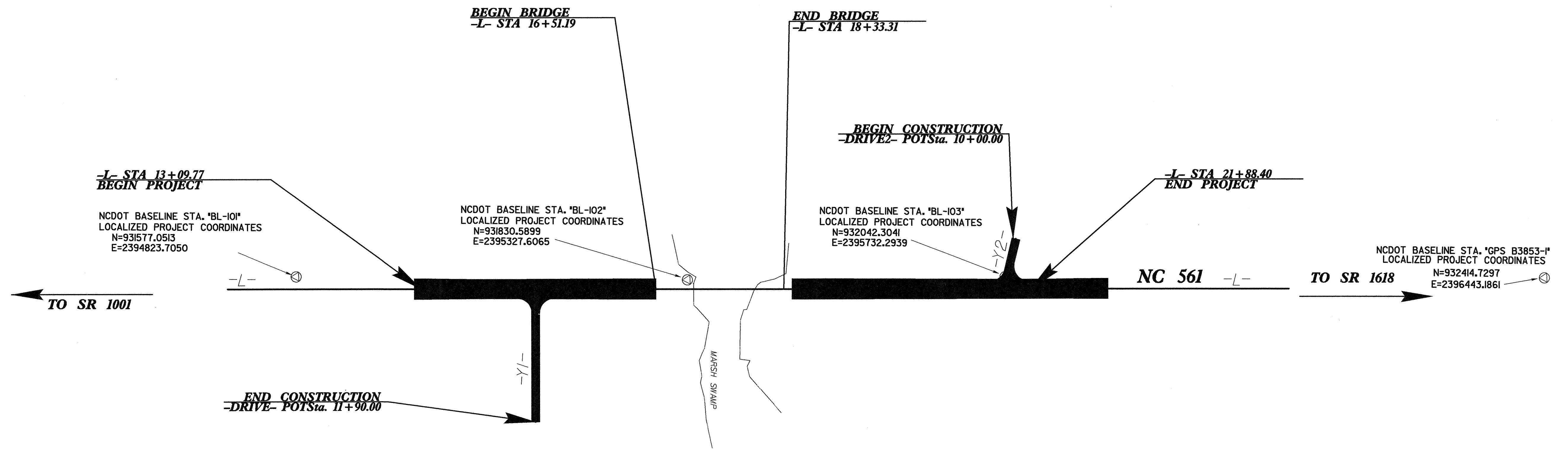
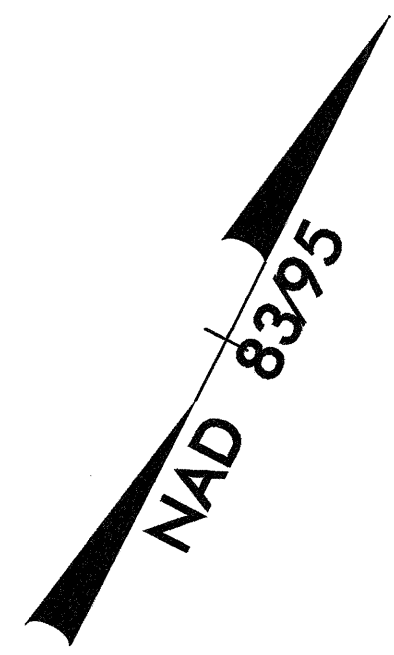
SANITARY SEWER:

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	— 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-3853



CONTROL DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
101	BL-101		931577.0513	2394823.7050	106.08	11+29.99	17.74 LT
102	BL-102		931830.5899	2395327.6065	105.86	16+94.06	13.63 LT
103	BL-103		932042.3041	2395732.2939	105.67	21+50.77	17.54 LT
1	GPS B3853-1		932414.7297	2396443.1861	110.49		OUTSIDE PROJECT LIMITS

BENCHMARK DATA

```

.....
301      ELEVATION = 106.99'
N 931545      E 2394832
L STATION 11+23 15' RT
'X' CHISELED ONTO NE CORNER OF BRIDGE
BM *1
.....
302      ELEVATION = 102.86'
N 931833      E 2395444
L STATION 17+99 37' RT
RR SPIKE IN BASE OF 24' GUM
BM *2
.....
303      ELEVATION = 108.66'
N 932187      E 2396128
L STATION OUT OF LIMITS
RR SPIKE IN BASE OF 24' GUM
BM *3
.....

```

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: j3853_ls_control_050526.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)

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B3853-1"

WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF
 NORTHING: 932414.7297(ft) EASTING: 2396443.1861(ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
 (GROUND TO GRID) IS: 1.00004122

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B3853-1" TO L- STATION 13+09.77
 S 62° 00' 24" W 1643.69'

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

NOTE: DRAWING NOT TO SCALE

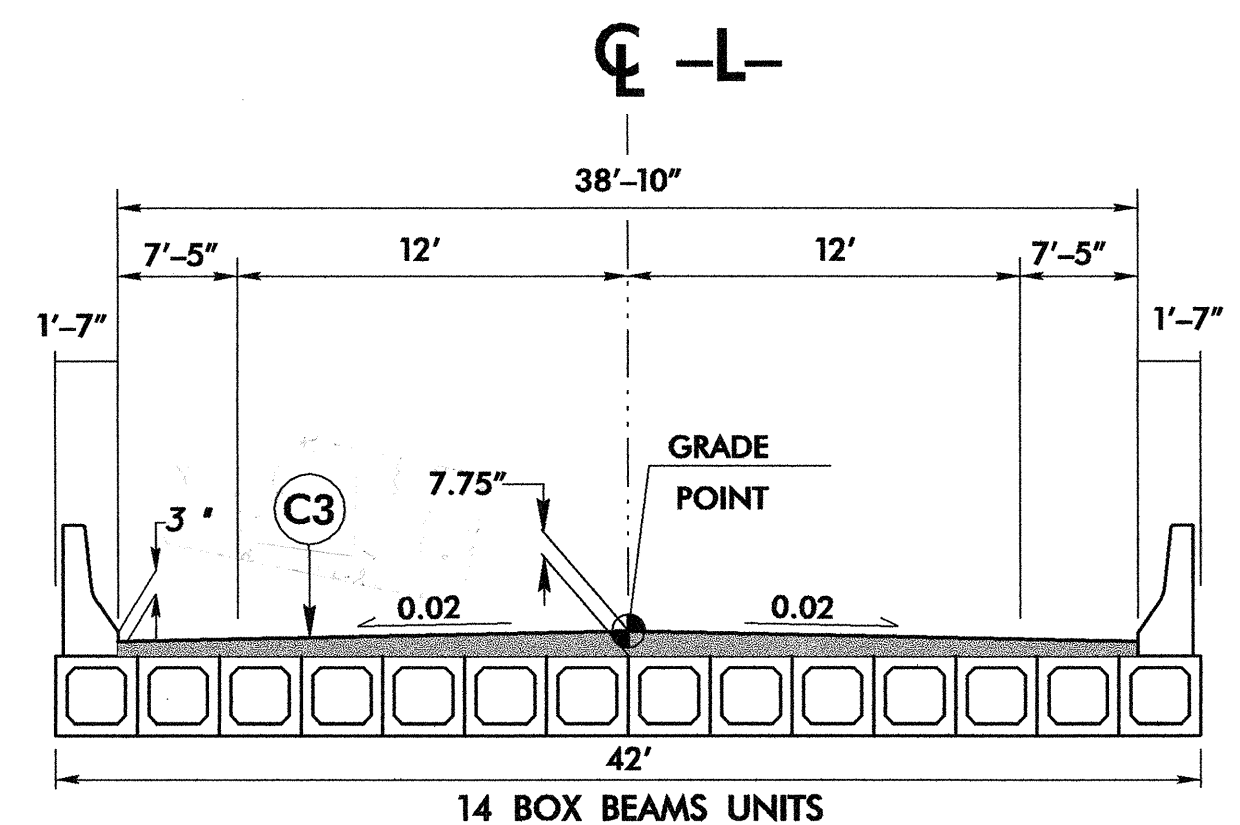
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ROADWAY DESIGN ENGINEER SEAL 028392 CLIFTON T. REGISTER	PAVEMENT DESIGN ENGINEER SEAL 13638 CHANG-CHI CHEN
---	--

1/26/67

PAVEMENT SCHEDULE	
C1	PROPOSED APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD
C2	PROPOSED APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD IN EACH OF 2 LAYERS.
C3	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
E1	PROPOSED APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YARD.
E2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT GREATER THAN 5 1/2" IN DEPTH OR LESS THAN 3" IN DEPTH.
J1	PROPOSED 8" AGGREGATE BASE COURSE.
P	PRIME COAT AT RATE OF 0.35 GALLONS PER PER SQ. YARD.
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

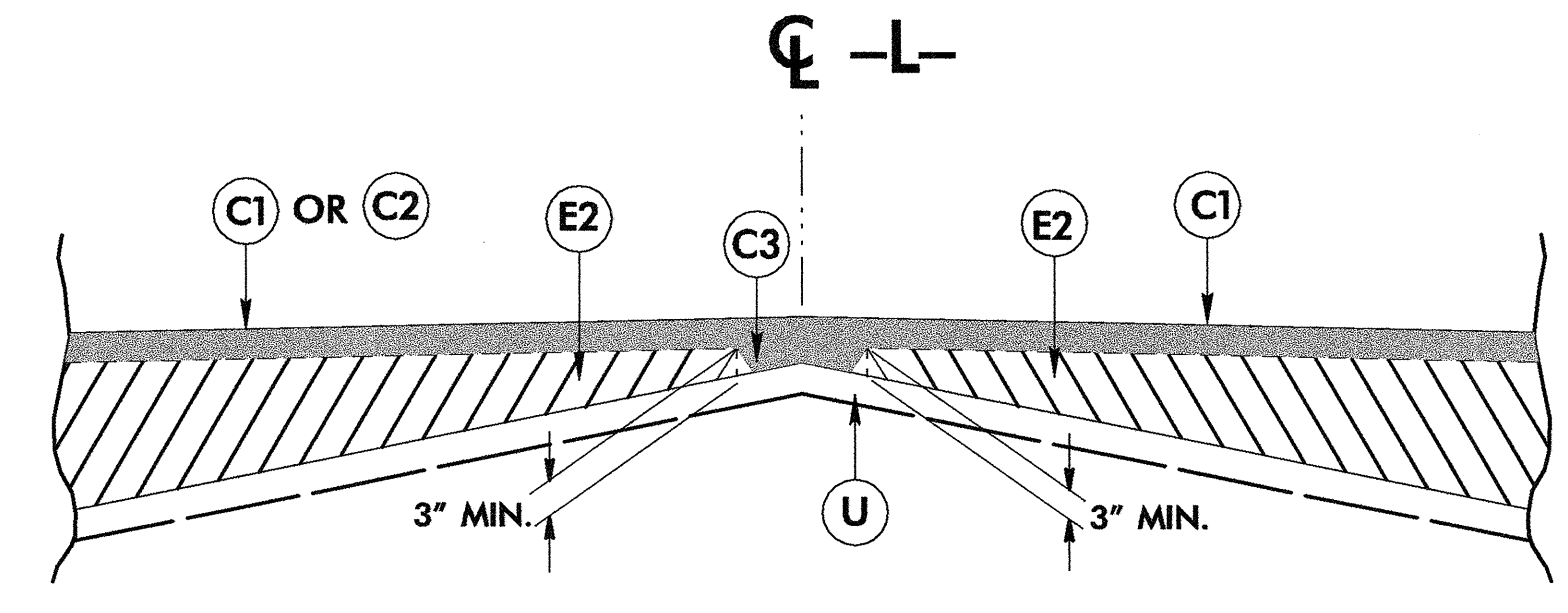
NOTE: ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE SHOWN.



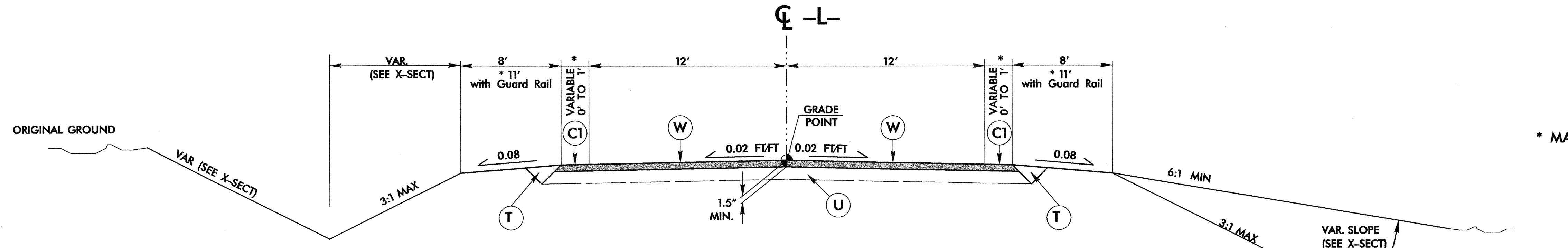
STRUCTURE DETAIL

14 BOX BEAMS UNIT
STA. 16+51.19 TO STA. 18+33.31

NOTE: 7'-5" SHOULDER WIDTH DUE TO HYDRAULIC SPREAD REQUIREMENTS.



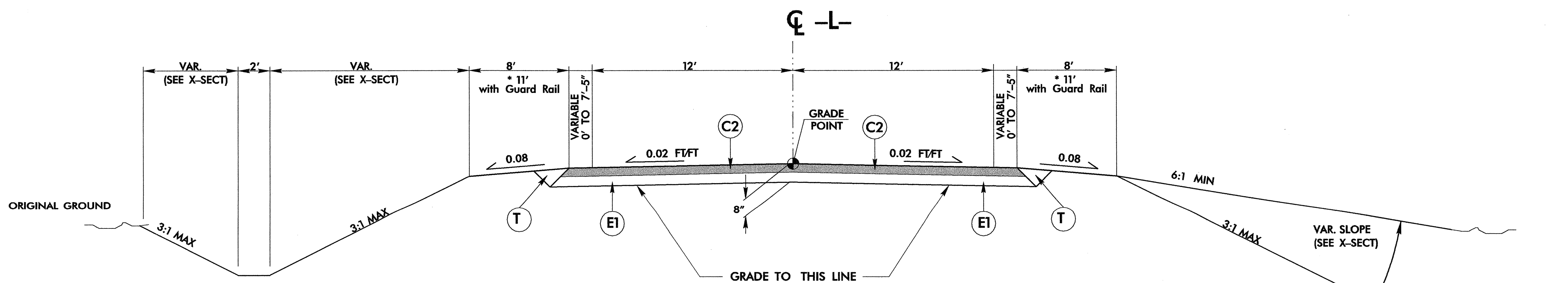
Detail Showing Method of Wedging



TYPICAL SECTION NO. 1

-L- STA. 13+34.77 TO STA. 15+00
-L- STA. 19+75 TO 21+63.40

* MATCH EXISTING PAVEMENT WIDTH



TYPICAL SECTION NO. 2

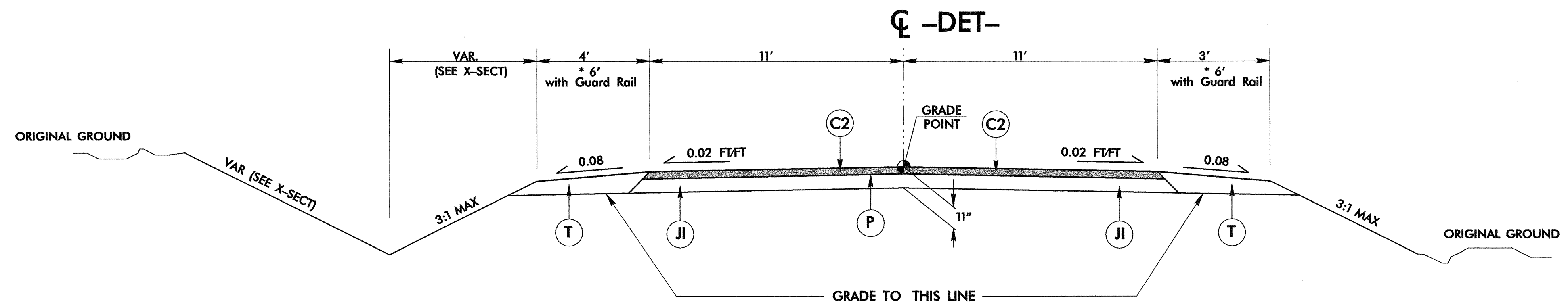
-L- STA. 15+00 TO STA. 16+51.19 (BEGIN BRIDGE)
-L- STA. 18+33.31 (END BRIDGE) TO 19+75

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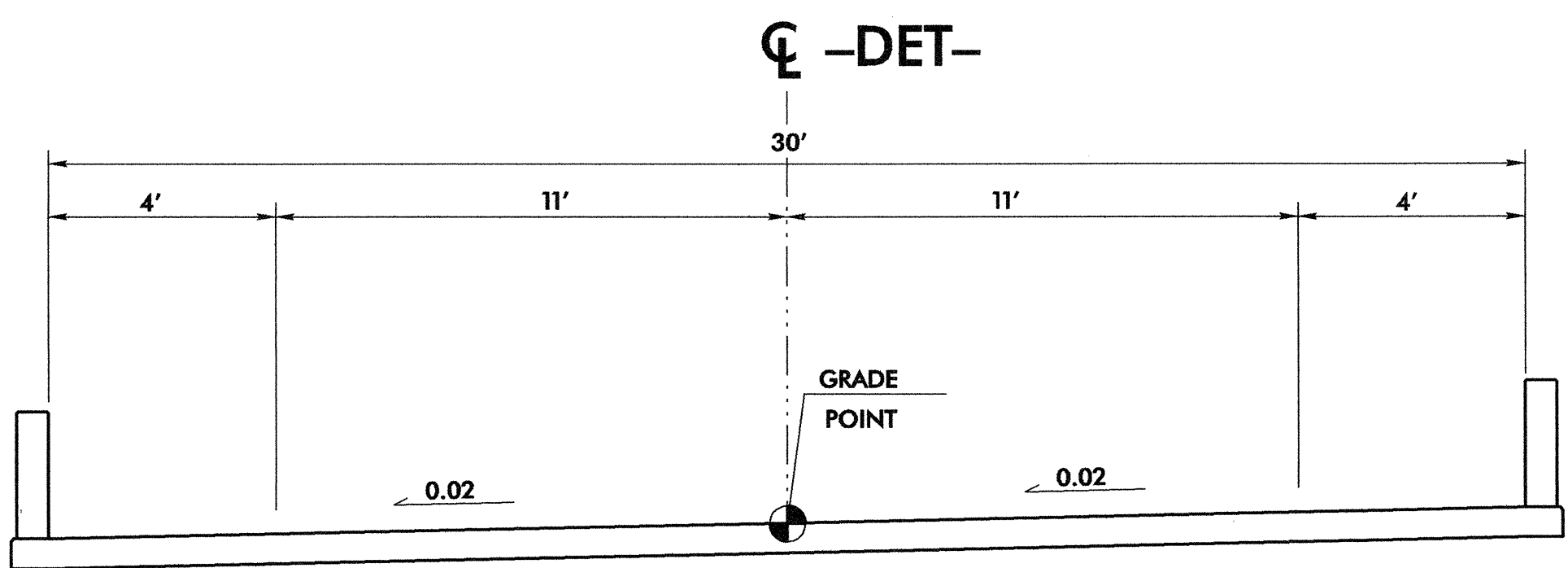
6/2/09

PAVEMENT SCHEDULE	
C1	1 1/2" S9.5B
C2	3" S9.5B
C3	VAR.DEPTH S9.5B
E1	5" B25.0B
E2	VAR.DEPTH B25.0B
J1	8" ABC
P	PRIME COAT
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	VAR.DEPTH ASPHALT (WEDGING)

PROJECT REFERENCE NO. B-3853	SHEET NO. 2-A
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 028392 1/23/07	PAVEMENT DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 13368 1/26/07



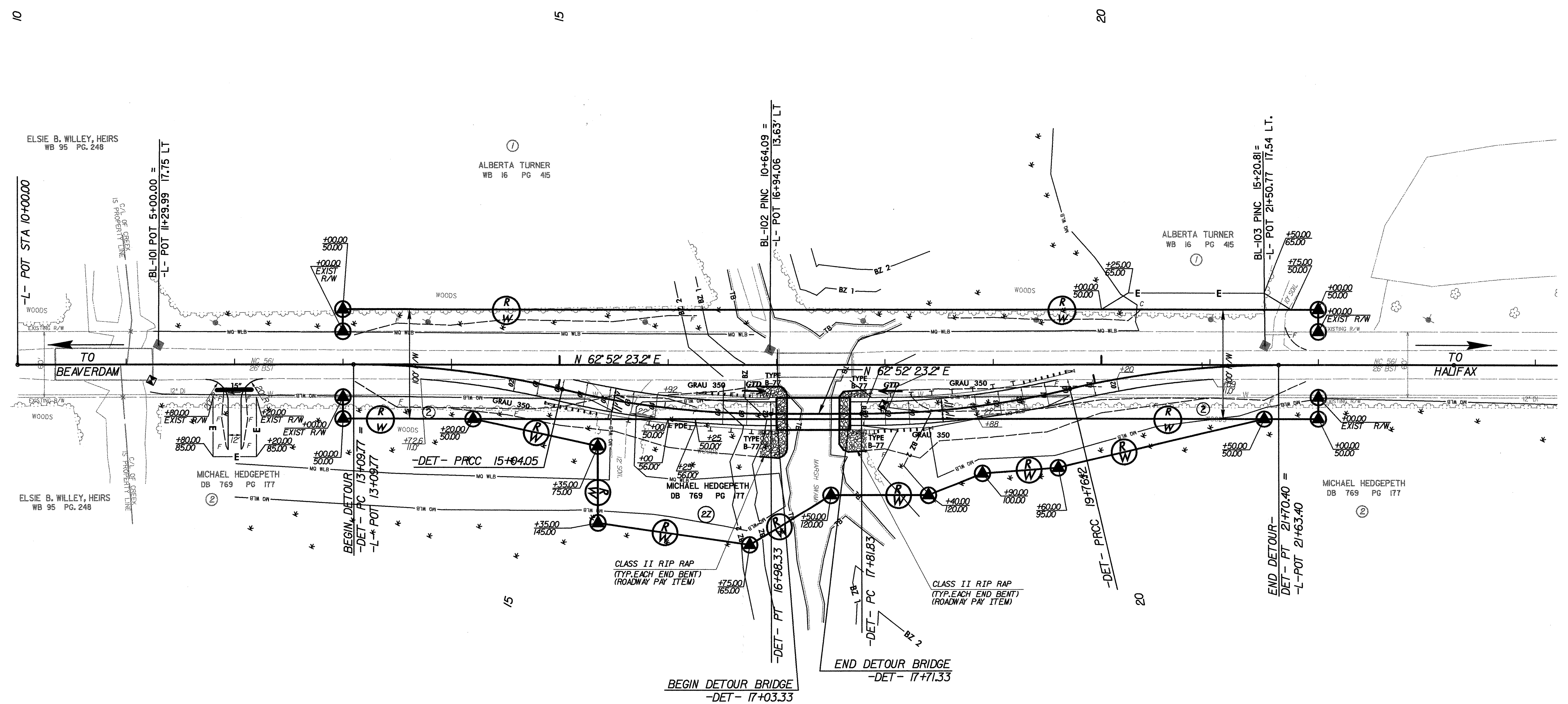
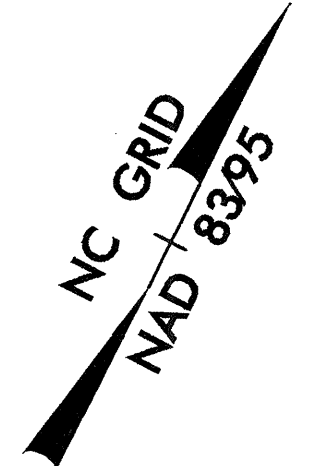
DETOUR TYPICAL SECTION
 -DET- STA. 15+00 TO STA. 17+03.33 (BEGIN BRIDGE)
 -DET- STA. 17+71.33 (END BRIDGE) TO 19+75



DETOUR STRUCTURE DETAIL
 STA. 17+03.33 TO STA. 17+71.33

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NOTE: SEE SHT 5 FOR PROFILE.
SEE SHT S-1 THRU S-___ FOR STRUCT PLANS.

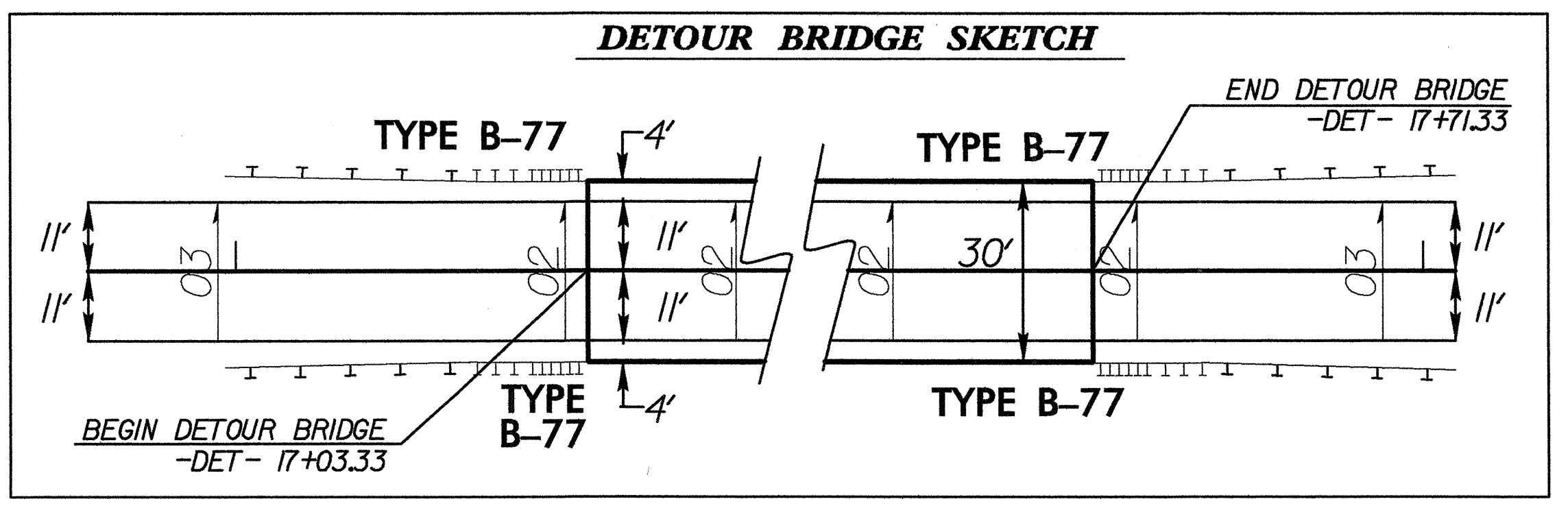


REVISIONS

8/17/99
 2/19/2007
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DETOUR ROAD CURVE DATA-

PI Sta 14+07.35 Δ = 13° 19' 51.9" (RT) D = 6° 51' 42.4" L = 194.28' T = 97.58' R = 835.00' V = 45 MPH e = SEE PLANSHEET	PI Sta 16+01.63 Δ = 13° 19' 51.9" (LT) D = 6° 51' 42.4" L = 194.28' T = 97.58' R = 835.00' V = 45 MPH e = SEE PLANSHEET	PI Sta 18+79.42 Δ = 13° 19' 51.9" (LT) D = 6° 51' 42.4" L = 194.28' T = 97.58' R = 835.00' V = 45 MPH e = SEE PLANSHEET	PI Sta 20+73.70 Δ = 13° 19' 51.9" (RT) D = 6° 51' 42.4" L = 194.28' T = 97.58' R = 835.00' V = 45 MPH e = SEE PLANSHEET
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201565

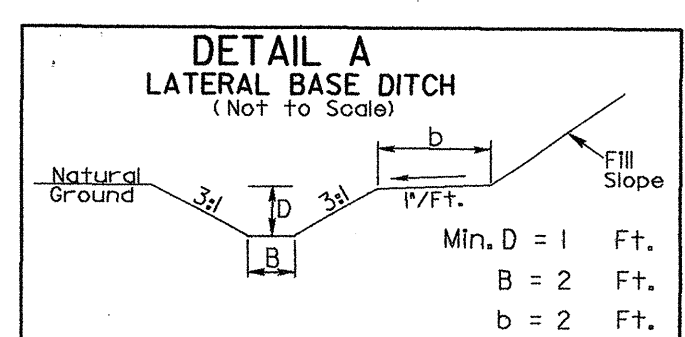
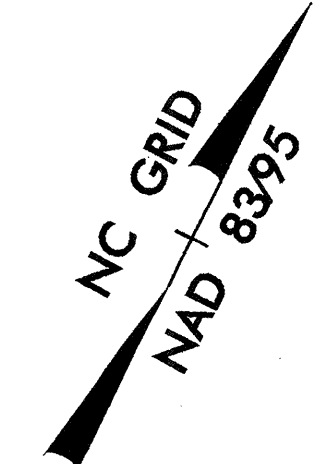
ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
000100000-N	800	Lump Sum		MOBILIZATION	204400000-E	815	100	LF	6" PERFORATED SUBDRAIN PIPE	465000000-N	1251	143	EA	TEMPORARY RAISED PAVEMENT MARKERS
002900000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (17+42.25)	205500000-E	815	3	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS	468500000-E	1205	1,758	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
004300000-N	226	Lump Sum		GRADING	206600000-N	815	1	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	468600000-E	1205	2,295	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
005000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING	207700000-E	815	6	LF	6" OUTLET PIPE (SUBDRAINS)	481000000-E	1205	24,364	LF	PAINT PAVEMENT MARKING LINES (4")
005700000-E	226	100	CY	UNDERCUT EXCAVATION	228600000-N	840	2	EA	MASONRY DRAINAGE STRUCTURES	485000000-E	1205	7,660	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
013400000-E	240	75	CY	DRAINAGE DITCH EXCAVATION	236420000-N	840	2	EA	FRAME WITH TWO GRATES, STD 840.20	490000000-N	1251	48	EA	PERMANENT RAISED PAVEMENT MARKERS
019500000-E	265	1,900	CY	SELECT GRANULAR MATERIAL	255600000-E	846	45	LF	SHOULDER BERM GUTTER	532620000-E	1510	786	LF	12" WATER LINE
019600000-E	270	1,900	SY	FABRIC FOR SOIL STABILIZATION	303000000-E	862	600	LF	STEEL BM GUARDRAIL	580400000-E	1530	470	LF	ABANDON 12" UTILITY PIPE
031800000-E	300	18	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	315000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS	587170000-E	1550	662	LF	TRENCHLESS INSTALLATION OF 12" IN SOIL
034200000-E	310	24	LF	18" SIDE DRAIN PIPE (30')	327000000-N	SP	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	587171000-E	1550	90	LF	TRENCHLESS INSTALLATION OF 12" NOT IN SOIL
034300000-E	310	32	LF	15" SIDE DRAIN PIPE	331700000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77	600000000-E	1605	2,240	LF	TEMPORARY SILT FENCE
036600000-E	310	32	LF	15" RC PIPE CULVERTS, CLASS III	338000000-E	862	300	LF	TEMPORARY STEEL BM GUARDRAIL	600600000-E	1610	75	TON	STONE FOR EROSION CONTROL, CLASS A
070800000-E	310	16	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	338700000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** TEMPORARY (B-77)	600900000-E	1610	480	TON	STONE FOR EROSION CONTROL, CLASS B
099500000-E	340	24	LF	PIPE REMOVAL	338910000-N	SP	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY	601200000-E	1610	420	TON	SEDIMENT CONTROL STONE
112100000-E	520	675	TON	AGGREGATE BASE COURSE	363500000-E	876	185	TON	RIP RAP, CLASS II	601500000-E	1615	1.5	ACR	TEMPORARY MULCHING
122000000-E	545	100	TON	INCIDENTAL STONE BASE	364900000-E	876	2	TON	RIP RAP, CLASS B	601800000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
127500000-E	600	490	GAL	PRIME COAT	365600000-E	876	1,010	SY	FILTER FABRIC FOR DRAINAGE	602100000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
148900000-E	610	325	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	440000000-E	1110	162	SF	WORK ZONE SIGNS (STATIONARY)	602400000-E	1622	215	LF	TEMPORARY SLOPE DRAINS
151900000-E	610	869	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	440500000-E	1110	96	SF	WORK ZONE SIGNS (PORTABLE)	602700000-N	1622	9	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
156000000-E	620	71	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	441000000-E	1110	52	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	602900000-E	SP	350	LF	SAFETY FENCE
169300000-E	654	13	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	443000000-N	1130	55	EA	DRUMS	603000000-E	1630	630	CY	SILT EXCAVATION
200000000-N	806	8	EA	RIGHT OF WAY MARKERS	443500000-N	1135	60	EA	CONES	603600000-E	1631	170	SY	MATting FOR EROSION CONTROL
202200000-E	815	23	CY	SUBDRAIN EXCAVATION	444500000-E	1145	48	LF	BARRICADES (TYPE III)	604200000-E	1632	40	LF	1/4" HARDWARE CLOTH
203300000-E	815	17	CY	SUBDRAIN FINE AGGREGATE	445500000-N	1150	50	MD	FLAGGER	607000000-N	SP	12	EA	SPECIAL STILLING BASINS
					448000000-N	1165	1	EA	TMIA					
										608400000-E	1660	2	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	1.5	TON	FERTILIZER TOPDRESSING
										611400000-N	SP	3	HR	SPECIALIZED HAND MOWING
										611700000-N	SP	8	EA	RESPONSE FOR EROSION CONTROL
										612900000-E	1670	0.8	ACR	WETLAND REFORESTATION
										613500000-E	SP	0.8	ACR	GENERIC EROSION CONTROL ITEM DISKING
										613500000-E	SP	0.8	ACR	GENERIC EROSION CONTROL ITEM RIPPING

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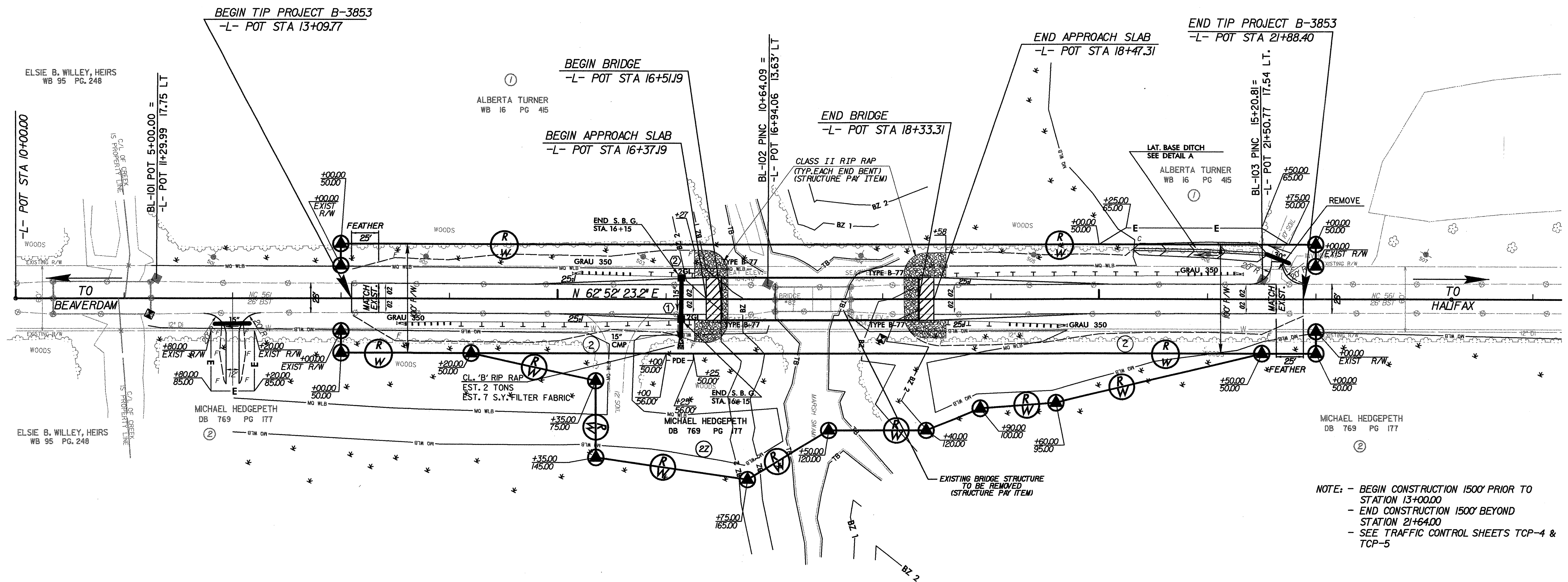
PROJECT REFERENCE NO. B-3853	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 028392 CLIFTON T. REGISTER 2/19/07	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 21686 ROBERT S. WEAVER 2/19/07



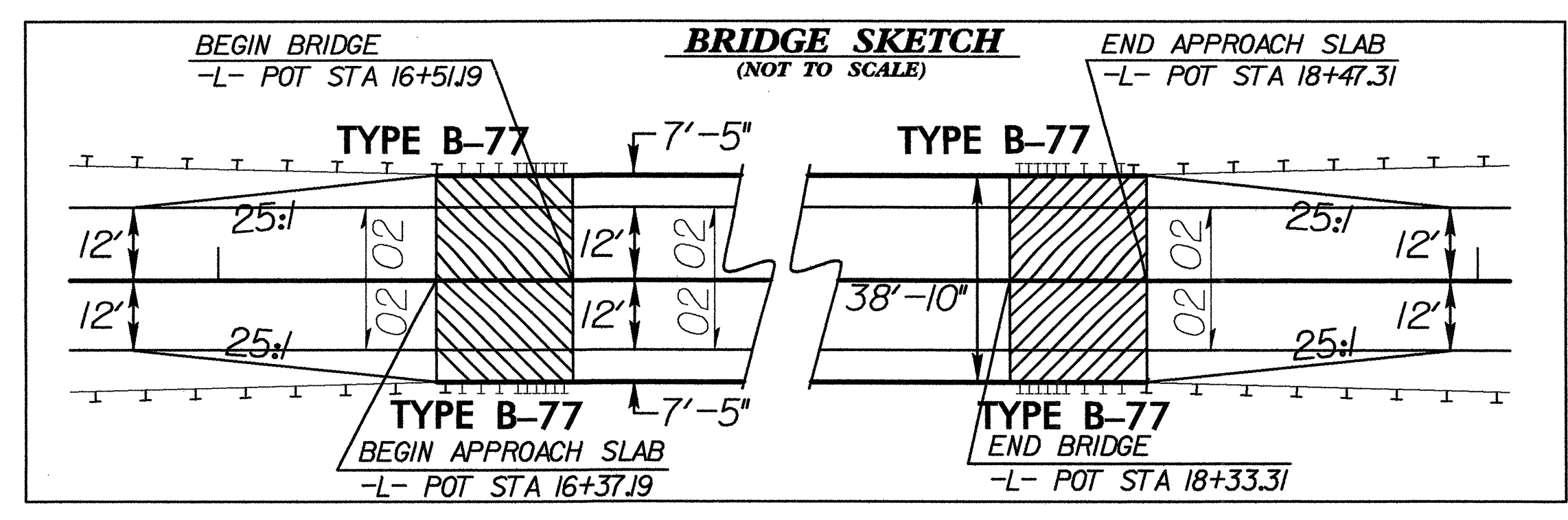
-L- STA 20+32 TO 21+55 LT
EST. DDE = 75 CY

NOTE: SEE SHT 2-B FOR DETOUR.
SEE SHT 5 FOR PROFILE.
SEE SHT 5- FOR STRUCT. PLANS.

▨ DENOTES APPROACH SLAB
FOR STRUCTURE PLANS.
SEE SHEET



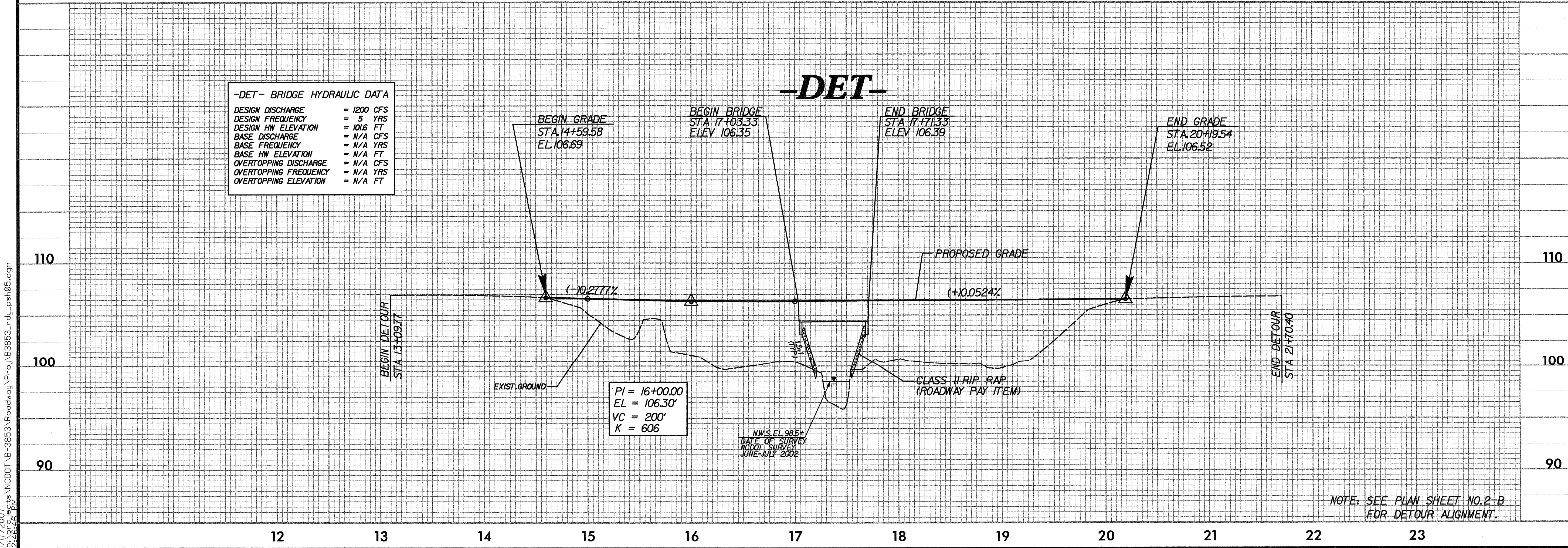
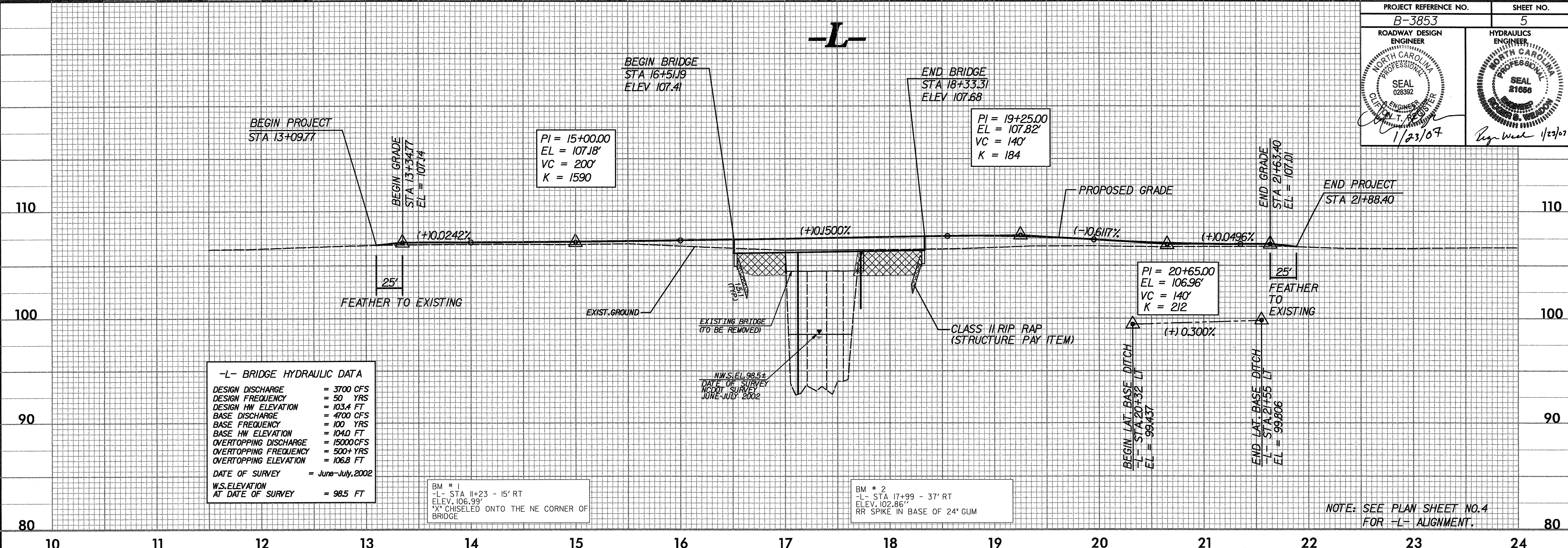
NOTE: - BEGIN CONSTRUCTION 1500' PRIOR TO
STATION 13+00.00
- END CONSTRUCTION 1500' BEYOND
STATION 21+64.00
- SEE TRAFFIC CONTROL SHEETS TCP-4 &
TCP-5



REVISIONS

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