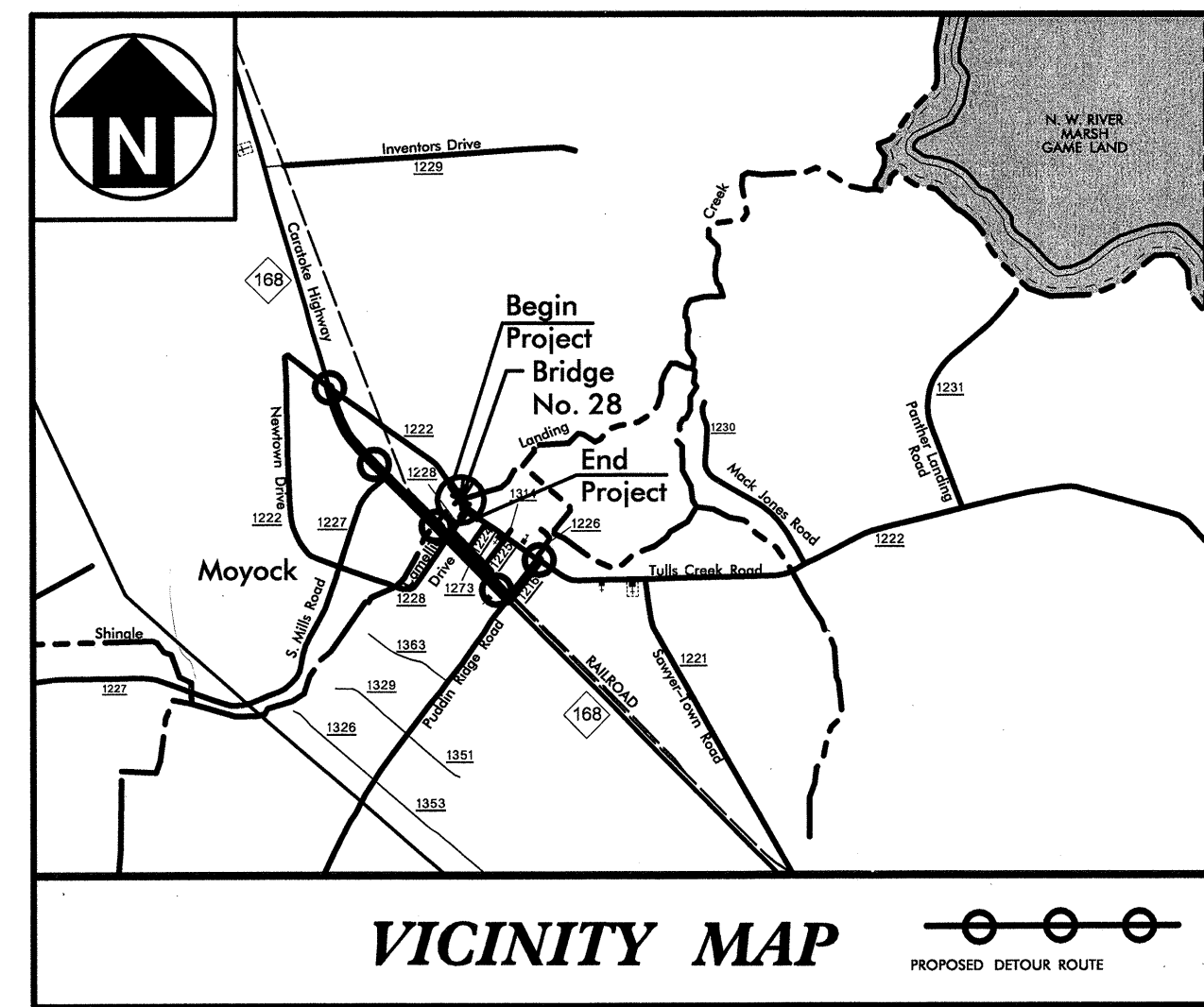


09/08/99

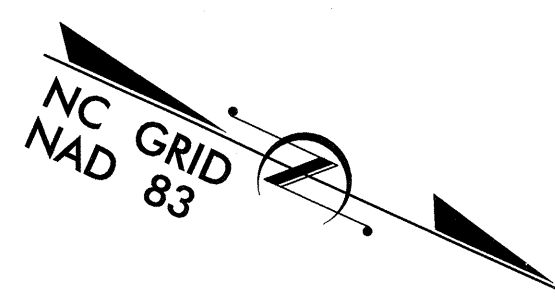
See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CURRITUCK COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4094	1	
W&B ELEMENT	F.A. PROJ. NO.	DESCRIPTION	
33452.1.1	BRZ-1222(6)	P.E.	
33452.2.2	BRZ-1222(6)	UTL /RW	
33452.3.ST1		CONST.	

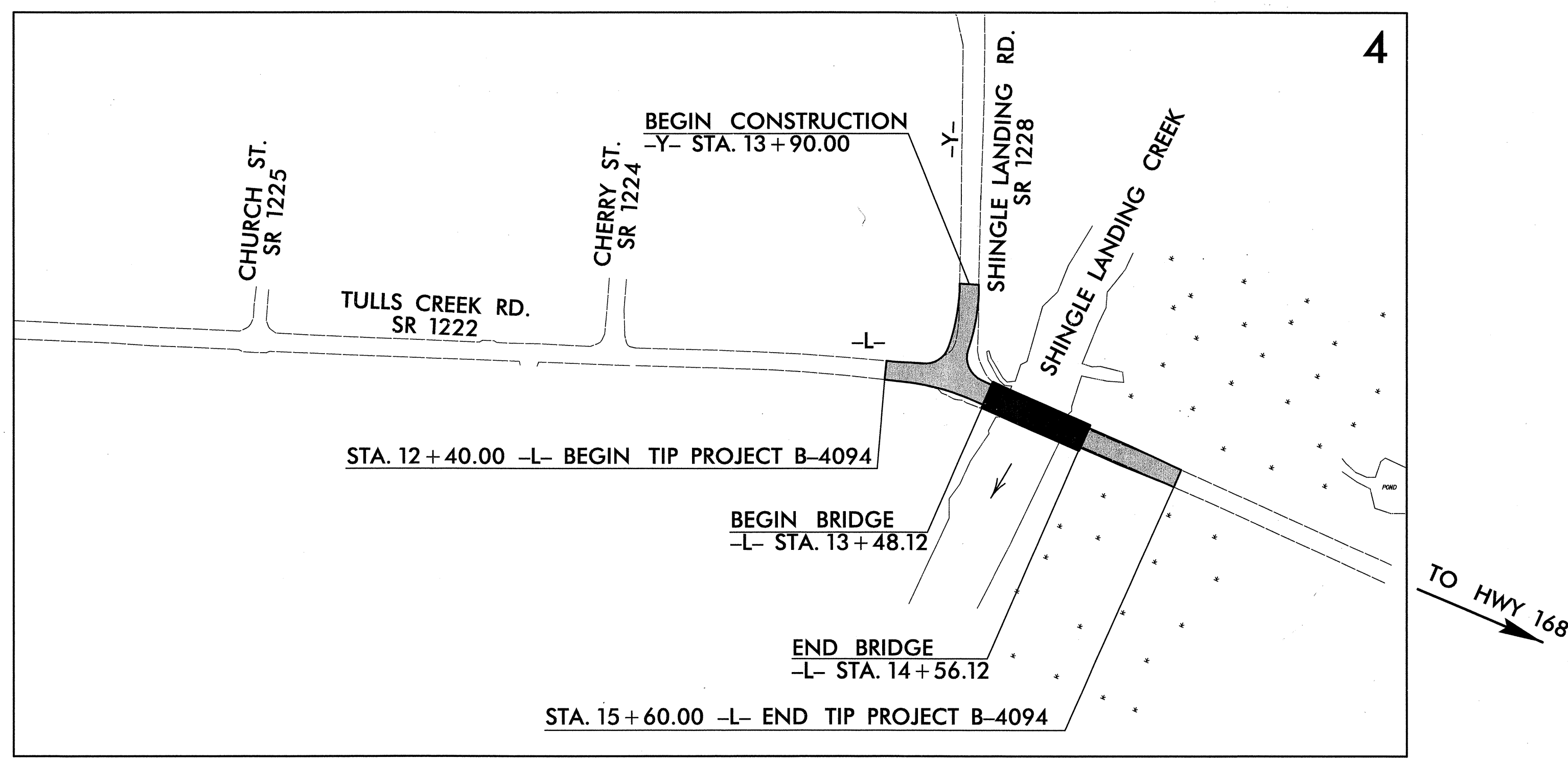


LOCATION: BRIDGE NO. 28 OVER SHINGLE LANDING CREEK ON SR 1222
TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE



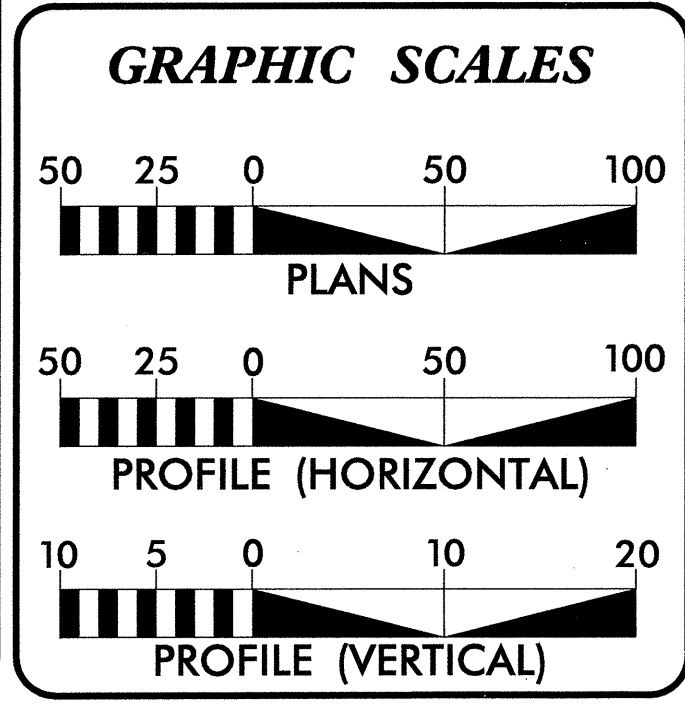
TIP PROJECT: B-4094

CONTRACT: C202101



MULKEY
ENGINEERS & CONSULTANTS
PO BOX 33127
RALEIGH, N.C. 27636
(919) 851-1912
(919) 851-1918 (FAX)
WWW.MULKEYINC.COM

** Design Exception - Lane Width, Shoulder Width, Bridge Width, Sag Vertical Curve K, Crest Vertical Curve K, Vertical SSD and Horizontal Clearance.



DESIGN DATA

ADT 2009 = 2,700
ADT 2030 = 5,600
DHV = 12%
D = 70%
* T = 4%
** V = 35 mph

Func Class = Local Rural

* Duals 3% TTST 1%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4094 = 0.040 MILE

LENGTH STRUCTURE TIP PROJECT B-4094 = 0.021 MILE

TOTAL LENGTH STATE TIP PROJECT B-4094 = 0.061 MILE

Prepared In the Office of:
Mulkey Engineers & Consultants
FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH 5, 2008

LETTING DATE:
MARCH 17, 2009

NCDOT CONTACT: CATHY S. HOUSER, PE
ROADWAY DESIGN - PROJECT ENGINEER

TIM JORDAN, PE
MULKEY E & C
PROJECT MANAGER

KEVIN ALFORD, PE
MULKEY E & C
HYDRAULICS ENGINEER

HYDRAULICS ENGINEER

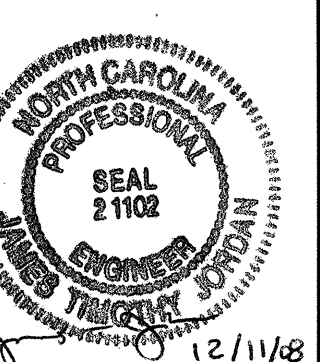
ROADWAY DESIGN

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Cathy S. Houser
STATE HIGHWAY DESIGN ENGINEER

12/11/2008
R:\Roadway\Proj\B4094_rdy_tsh.dgn
10:29:43 AM

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS



INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS

Index of Sheets

Sheet Number	Sheet
1	Title Sheet
1-A	Index of Sheets, General Notes, & List of Standards
1-B	Conventional Symbols
1-C	Survey Control Sheet
2	Pavement Schedule, Wedging Detail & Typical Sections
2-A	Modified Concrete Flume Detail
3	Summary of Quantities
3-A	List of Pipe, Endwalls, Etc. (For Pipe 48" & Under), Guardrail Summary, Summary of Earthwork, & Summary of Pavement Removal
4	Plan
5	Profile
TCP-1 thru TCP-2	Traffic Control Plans
SD-1	Special Sign Design
EC-1 thru EC-5	Erosion Control Plans
UO-1 thru UO-2	Utilities by Others Plans
X-1	Cross Section Summary Sheet
X-2 thru X-5	Cross-Sections
S-1 thru S-24	Structure Plans

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

2006 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Super-elevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation - Method 'A'
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 Super-elevated Curve - Method I
DIVISION 8 - INCIDENTALS	
815.03	Pipe Underdrain and Blind Drain
816.04	Markers for Drainage Structure and Concrete Pad
846.01	Concrete Curb, Gutter and Curb & Gutter
850.01	Concrete Paved Ditches
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets

GENERAL NOTES:

2006 SPECIFICATIONS
EFFECTIVE: 07-18-06
REVISED: 07-30-08

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 II.

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.

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.

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 DOMINION NORTH CAROLINA POWER, EMBARO MEDIACOM, CURRITUCK COUNTY WATER & CURRITUCK COUNTY SEWER

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.


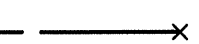


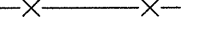





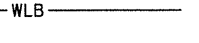

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering





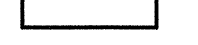
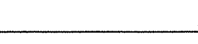
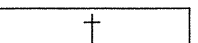

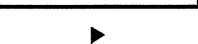


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS


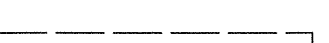
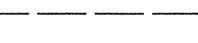

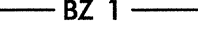






BOUNDARIES AND PROPERTY:

State Line	_____
County Line	_____
Township Line	_____
City Line	_____
Reservation Line	_____
Property Line	_____
Existing Iron Pin	_____ 
Property Corner	_____ 
Property Monument	_____ 
Parcel/Sequence Number	_____ 
Existing Fence Line	_____ 
Proposed Woven Wire Fence	_____ 
Proposed Chain Link Fence	_____ 
Proposed Barbed Wire Fence	_____ 
Existing Wetland Boundary	_____ 
Proposed Wetland Boundary	_____ 
Existing Endangered Animal Boundary	_____ 
Existing Endangered Plant Boundary	_____ 

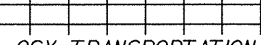




BUILDINGS AND OTHER CULTURE:

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	_____ 
Jurisdictional Stream	_____ 
Buffer Zone 1	_____ 
Buffer Zone 2	_____ 
Flow Arrow	_____ 
Disappearing Stream	_____ 
Spring	_____ 
Wetland	_____ 
Proposed Lateral, Tail, Head Ditch	_____ 
False Sump	_____ 

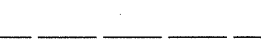









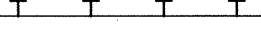

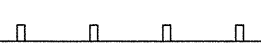


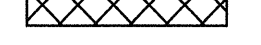



RAILROADS:

Standard Gauge	_____ 
RR Signal Milepost	_____ 
Switch	_____ 
RR Abandoned	_____ 
RR Dismantled	_____ 

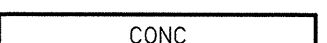
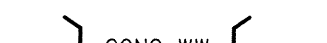


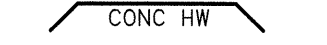


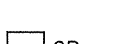

RIGHT OF WAY:

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	_____ 
Proposed Wheel Chair Ramp Curb Cut	_____ 
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:

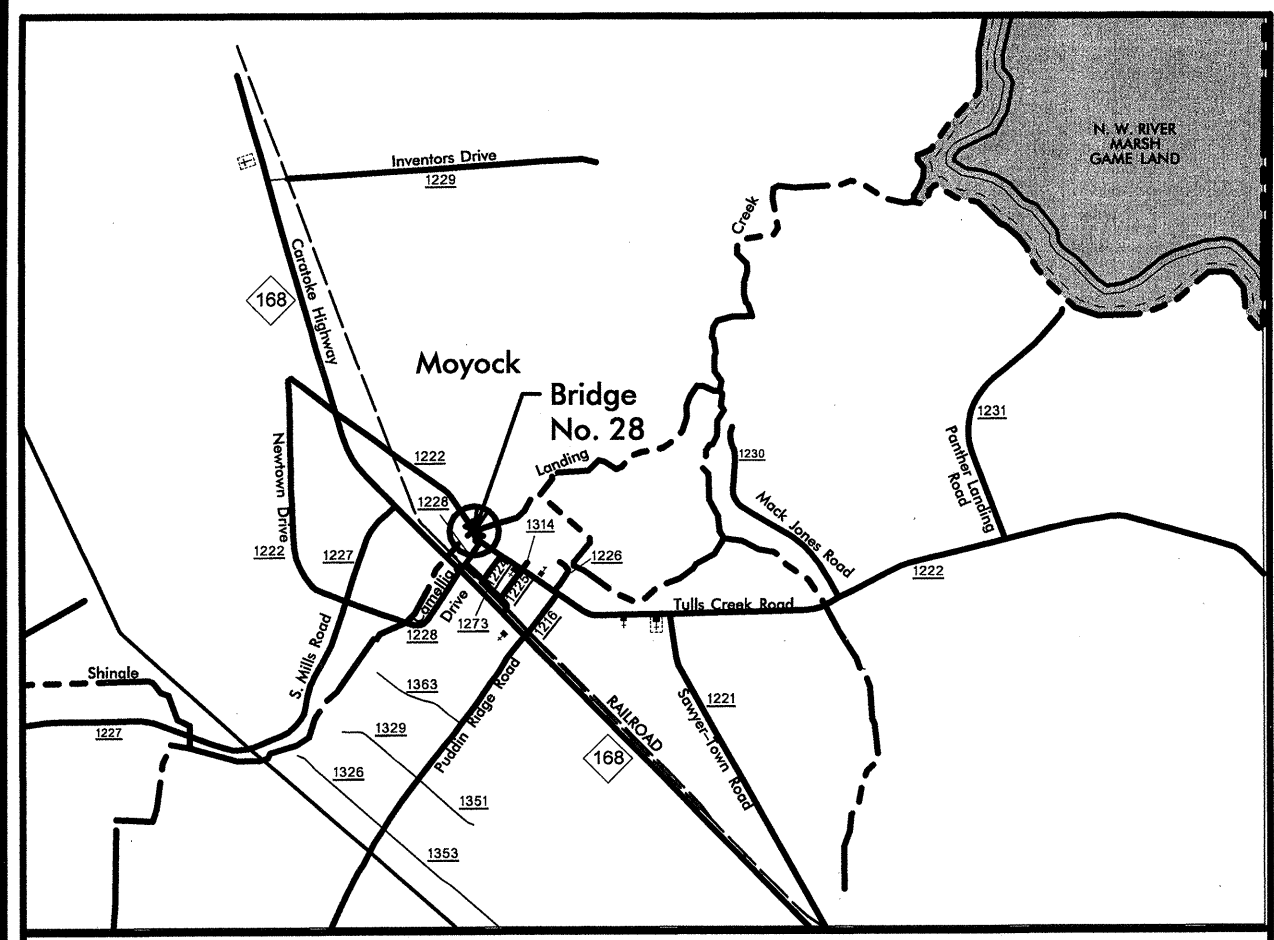
Sanitary Sewer Manhole	_____ 
Sanitary Sewer Cleanout	_____ 
U/G Sanitary Sewer Line	_____ 
Above Ground Sanitary Sewer	_____ 
Recorded SS Forced Main Line	_____ 
Designated SS Forced Main Line (S.U.E.*)	_____ 

MISCELLANEOUS:

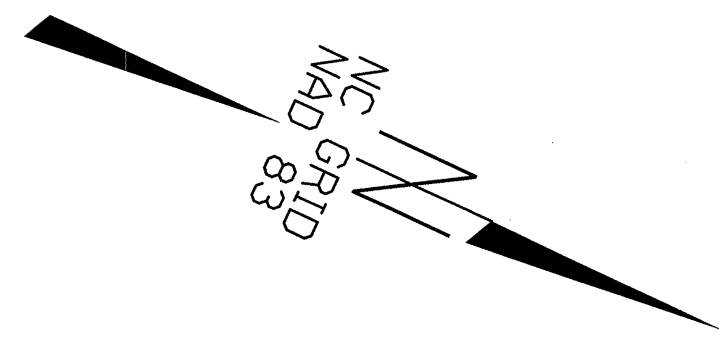
Utility Pole	_____ 
Utility Pole with Base	_____ 
Utility Located Object	_____ 
Utility Traffic Signal Box	_____ 
Utility Unknown U/G Line	_____ 
U/G Tank; Water, Gas, Oil	_____ 
A/G Tank; Water, Gas, Oil	_____ 
U/G Test Hole (S.U.E.*)	_____ 
Abandoned According to Utility Records	_____ 
End of Information	_____ 

3/15/06
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SURVEY CONTROL SHEET B-4094



VICINITY MAP

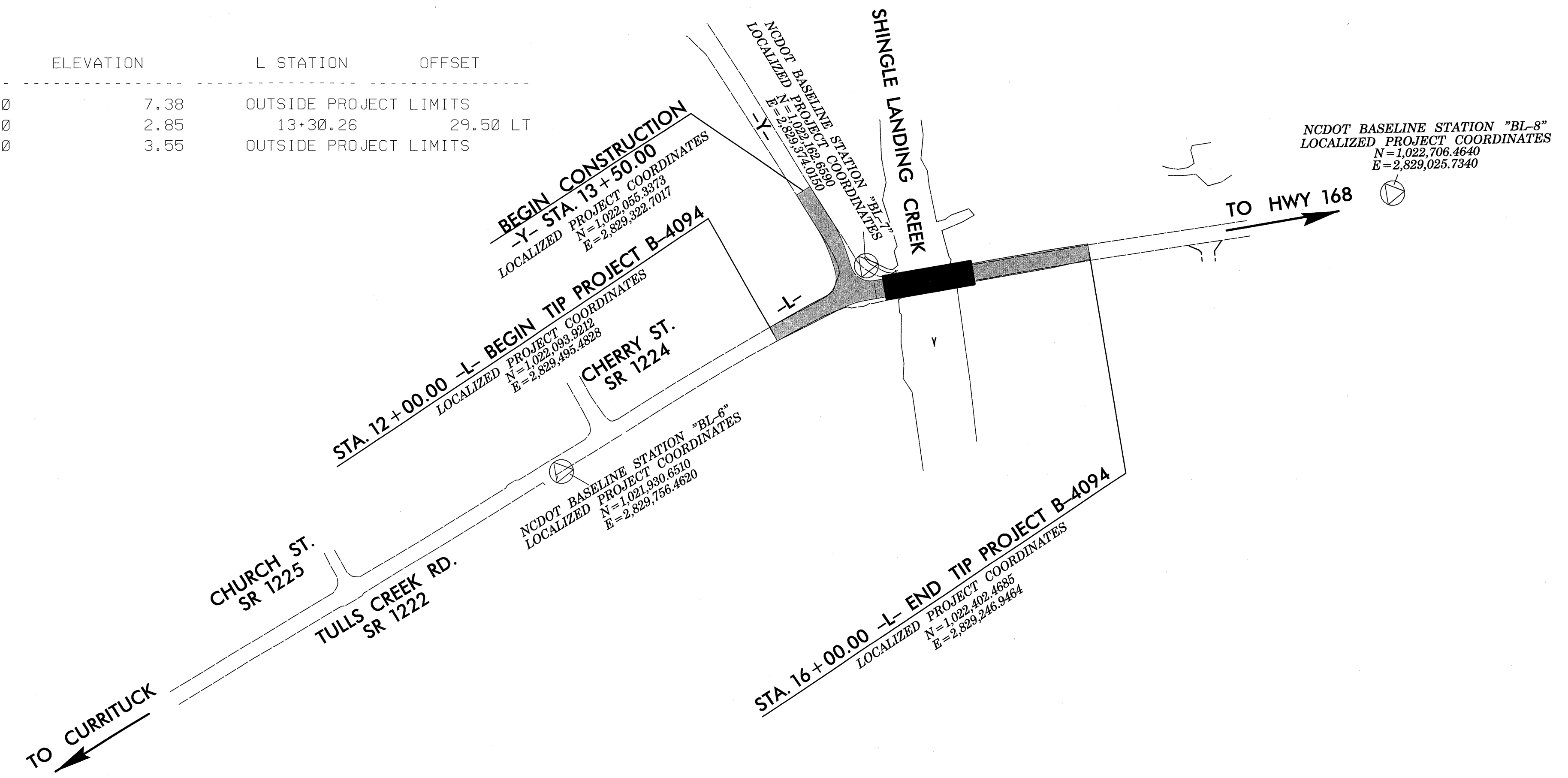


CONTROL DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
6	BL-6		1021930.6510	2829756.4620	7.38	OUTSIDE PROJECT LIMITS	
7	BL-7		1022162.6590	2829374.0150	2.85	13+30.26	29.50 LT
8	BL-8		1022706.4640	2829025.7340	3.55	OUTSIDE PROJECT LIMITS	

BENCHMARK DATA

 BM12 ELEVATION = 3.29
 N 1022541 E 2829375
 L STATION 16+43 183 RIGHT



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "HYDRANT" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 1010625.899(ft) EASTING: 2860510.122(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0001084 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "HYDRANT" TO -L- STATION 12+00.00 IS N 69°42'27.2" W 33,066.95' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

NOTES:

THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING [HTTP://WWW.NCDOT.ORG/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT](http://www.ncdot.org/preconstruct/highway/location/project)

FILE: b4094_ls_control_070706.txt

THERE IS NO CALIBRATION 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 UTILIZING GLOBAL POSITIONING SYSTEM.

CONTROL NETWORK FOR B-4094 ESTABLISHED USING EXISTING STATIC GPS FOR PROJECT R-4429 FROM NCGS MONUMENTATION.

NOTE: DRAWING NOT TO SCALE

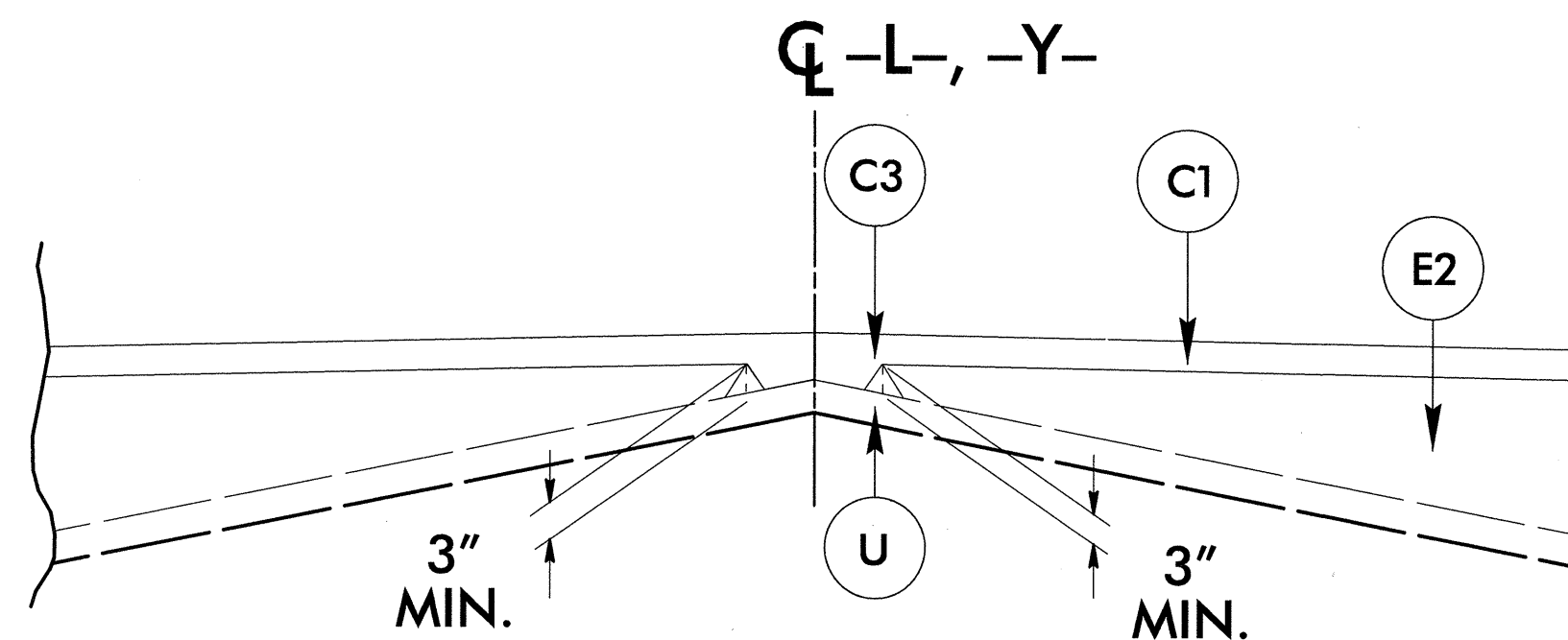
12/11/2008 10:03:08 PM R:\LocationSurveys\b4094_ls_lc_070706(OLD).dgn

5/14/99

PROJECT REFERENCE NO. B-4094	SHEET NO. 2
RW SHEET NO.	
PAVEMENT DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 22896 CLAY S. MORRISON 12/15/08	ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 21102 DAVID T. THORNTON 12/11/08

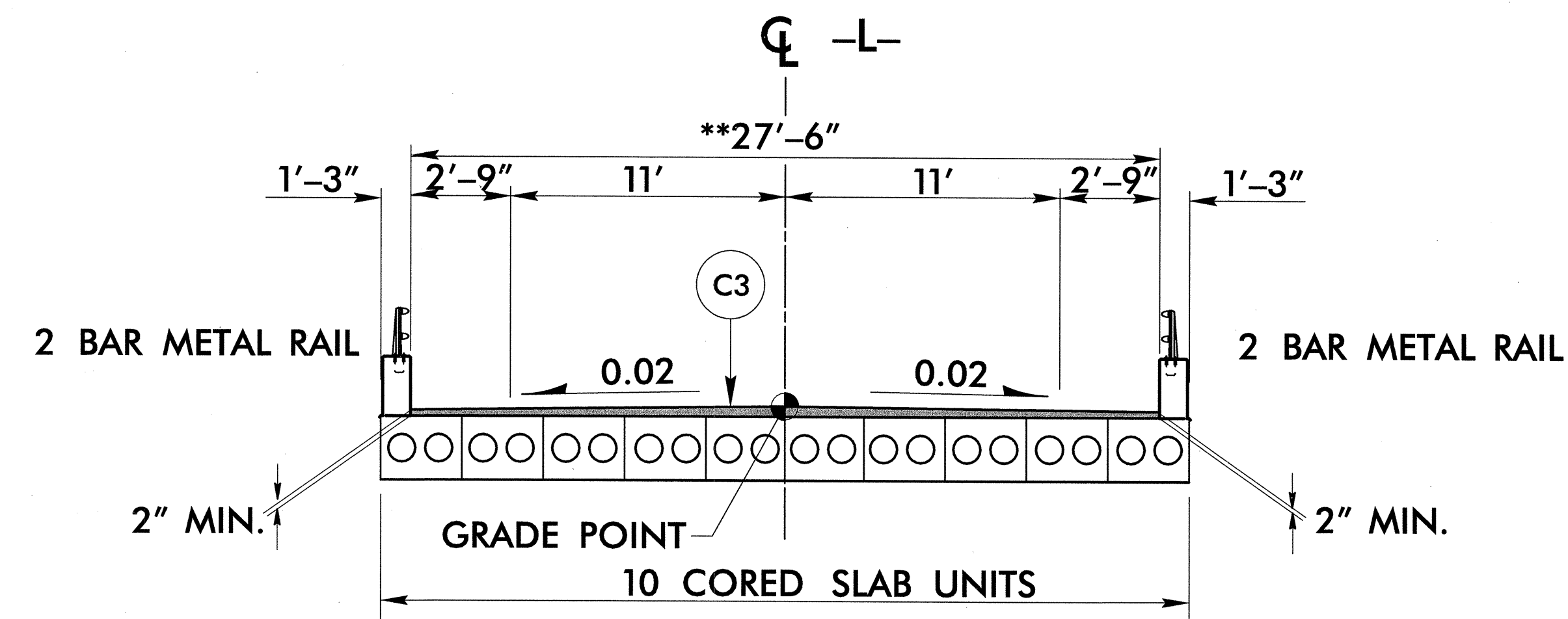
PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
C1	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. 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 LESS THAN 1" IN DEPTH OR GREATER THAN 2" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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



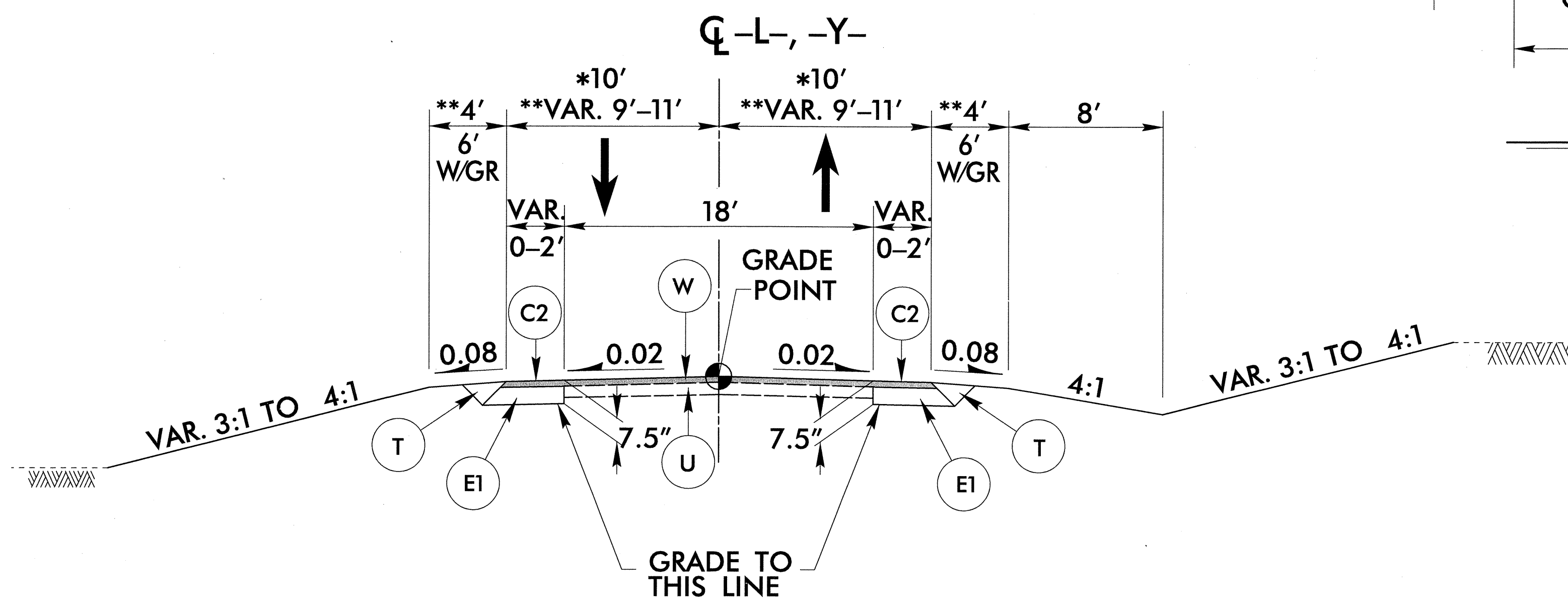
DETAIL SHOWING METHOD OF WEDGING

USE IN CONJUNCTION WITH TYPICAL SECTION NO. 1



DETAIL OF BRIDGE

-L- STA 13+48.12 TO STA 14+56.12



TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1
AT THE FOLLOWING LOCATIONS

TRANSITION FROM EXISTING TO T.S. NO. 1 FROM
-L- STA. 12+40.00 TO STA. 12+50.00
-Y- STA. 13+90.00 TO STA. 14+00.00

-L- STA. 12+50.00 TO STA. 13+48.12 (BEGIN BRIDGE)
-L- STA. 14+56.12 (END BRIDGE) TO STA. 15+50.00
* -Y- STA. 14+00 TO STA. 14+76.80

TRANSITION FROM T.S. NO. 1 TO EXISTING
-L- STA. 15+50.00 TO STA. 15+60.00

**DESIGN EXCEPTION - LANE WIDTH, SHOULDER WIDTH AND BRIDGE WIDTH

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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 - C202101

ItemNumber	Sec #	Quantity	Unit	Description
000100000-N	800	Lump Sum		MOBILIZATION
002900000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (14+02.11)
004300000-N	226	Lump Sum		GRADING
005000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING
005700000-E	226	300	CY	UNDERCUT EXCAVATION
013400000-E	240	35	CY	DRAINAGE DITCH EXCAVATION
019500000-E	265	300	CY	SELECT GRANULAR MATERIAL
019600000-E	270	300	SY	FABRIC FOR SOIL STABILIZATION
031800000-E	300	10	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
037200000-E	310	80	LF	18" RC PIPE CULVERTS, CLASS III
099500000-E	340	40	LF	PIPE REMOVAL
122000000-E	545	10	TON	INCIDENTAL STONE BASE
133000000-E	607	40	SY	INCIDENTAL MILLING
148900000-E	610	140	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
152500000-E	610	100	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
156000000-E	620	13	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
202200000-E	815	23	CY	SUBDRAIN EXCAVATION
203300000-E	815	17	CY	SUBDRAIN FINE AGGREGATE
204400000-E	815	100	LF	6" PERFORATED SUBDRAIN PIPE
205500000-E	815	3	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS
206600000-N	815	1	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
207700000-E	815	6	LF	6" OUTLET PIPE (SUBDRAINS)
255600000-E	846	35	LF	SHOULDER BERM GUTTER
257000000-N	SP	4	EA	MODIFIED CONCRETE FLUME
261900000-E	850	35	SY	4" CONCRETE PAVED DITCH

ItemNumber	Sec #	Quantity	Unit	Description
304500000-E	862	25	LF	STEEL BM GUARDRAIL, SHOP CURVED
315000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS
316500000-N	SP	1	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (TL-2)
321500000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
327000000-N	SP	3	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
364900000-E	876	5	TON	RIP RAP, CLASS B
365600000-E	876	367	SY	FILTER FABRIC FOR DRAINAGE
440500000-E	1110	520	SF	WORK ZONE SIGNS (PORTABLE)
441000000-E	1110	175	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
442000000-N	1120	1	EA	CHANGEABLE MESSAGE SIGN
444500000-E	1145	72	LF	BARRICADES (TYPE III)
600000000-E	1605	500	LF	TEMPORARY SILT FENCE
600600000-E	1610	155	TON	STONE FOR EROSION CONTROL, CLASS A
600900000-E	1610	105	TON	STONE FOR EROSION CONTROL, CLASS B
601200000-E	1610	45	TON	SEDIMENT CONTROL STONE
601500000-E	1615	1.5	ACR	TEMPORARY MULCHING
601800000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
602100000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
602900000-E	SP	500	LF	SAFETY FENCE
603000000-E	1630	160	CY	SILT EXCAVATION
603600000-E	1631	250	SY	MATTING FOR EROSION CONTROL
603700000-E	SP	15	SY	COIR FIBER MAT
603800000-E	SP	50	SY	PERMANENT SOIL REINFORCEMENT MAT
604200000-E	1632	45	LF	1/4" HARDWARE CLOTH
604800000-E	SP	70	SY	FLOATING TURBIDITY CURTAIN

ItemNumber	Sec #	Quantity	Unit	Description
6071030000-E	SP	75	LF	COIR FIBER BAFFLES
6084000000-E	1660	5	ACR	SEEDING & MULCHING
6087000000-E	1660	0.5	ACR	MOWING
6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
6096000000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
6108000000-E	1665	0.75	TON	FERTILIZER TOPDRESSING
6114000000-N	SP	5	HR	SPECIALIZED HAND MOWING
6117000000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL

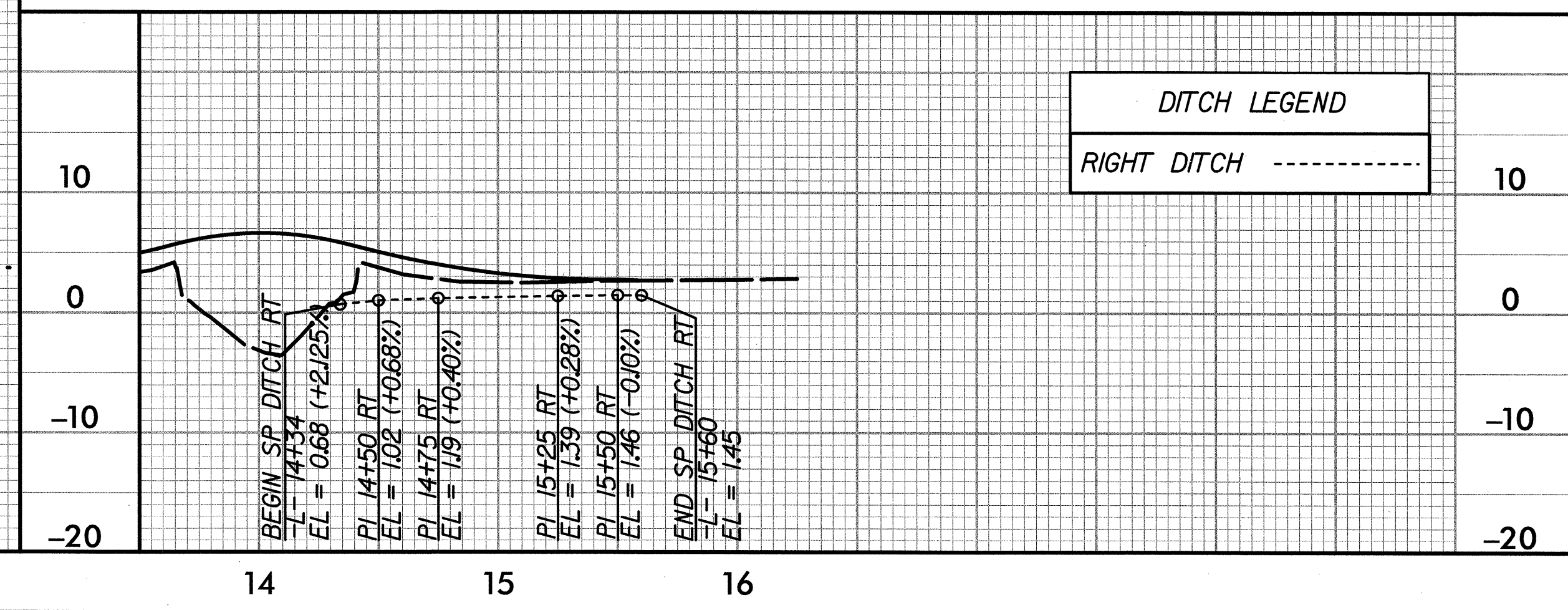
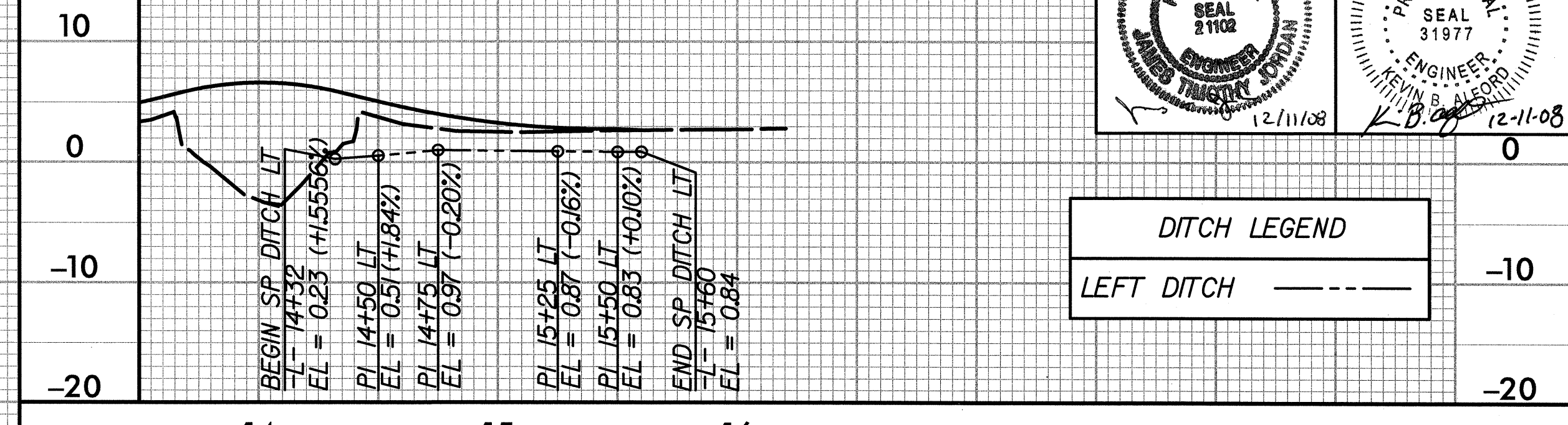
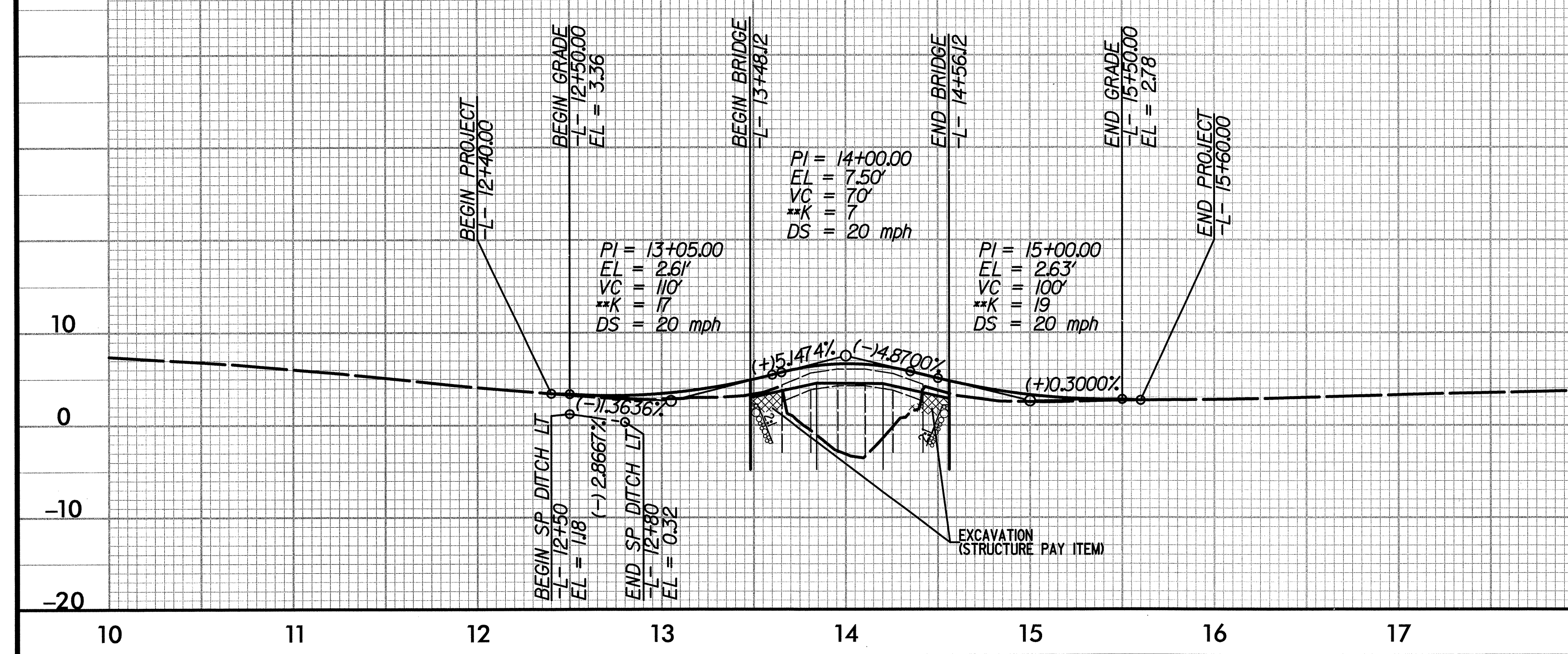
DITCH LEGEND LEFT DITCH

DITCH LEGEND RIGHT DITCH

BM -#12 RAILROAD SPIKE IN 15' CYPRESS

FOR -L- PLAN VIEW SEE SHEET 4

**DESIGN EXCEPTION - SAG VERTICAL CURVE K AND CREST VERTICAL CURVE K



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE = 1060 CFS, DESIGN FREQUENCY = 25 YRS, DESIGN HW ELEVATION = 3.1 FT

DATE OF SURVEY = 2/6/07, W.S. ELEVATION AT DATE OF SURVEY = 0.3

PIPE HYDRAULIC DATA

DRAINAGE AREA = 3.2 AC, DESIGN FREQUENCY = 25 YRS, DESIGN DISCHARGE = 8.6 CFS

-Y-

FOR -Y- PLAN VIEW SEE SHEET 4

