

09/08/99

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

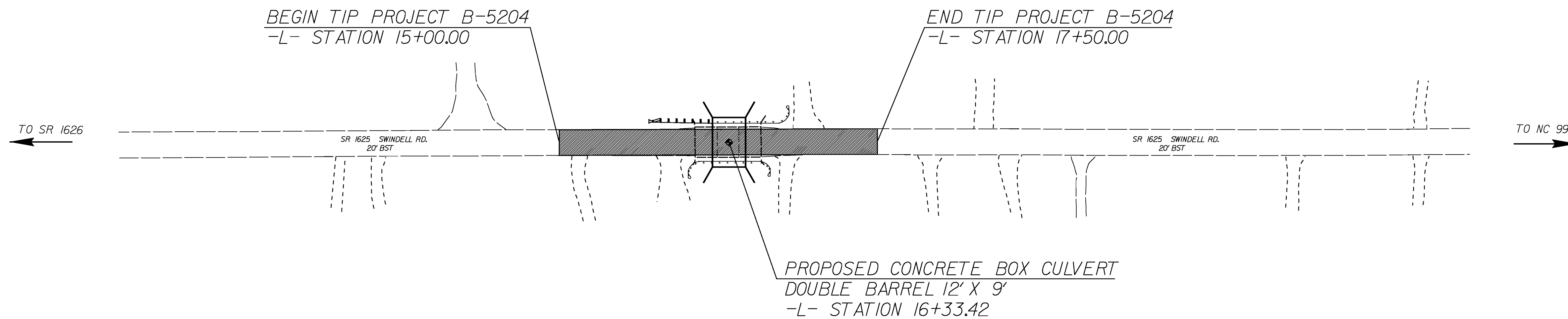
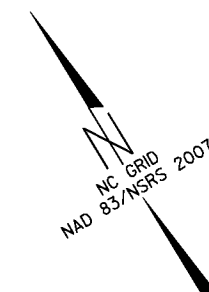
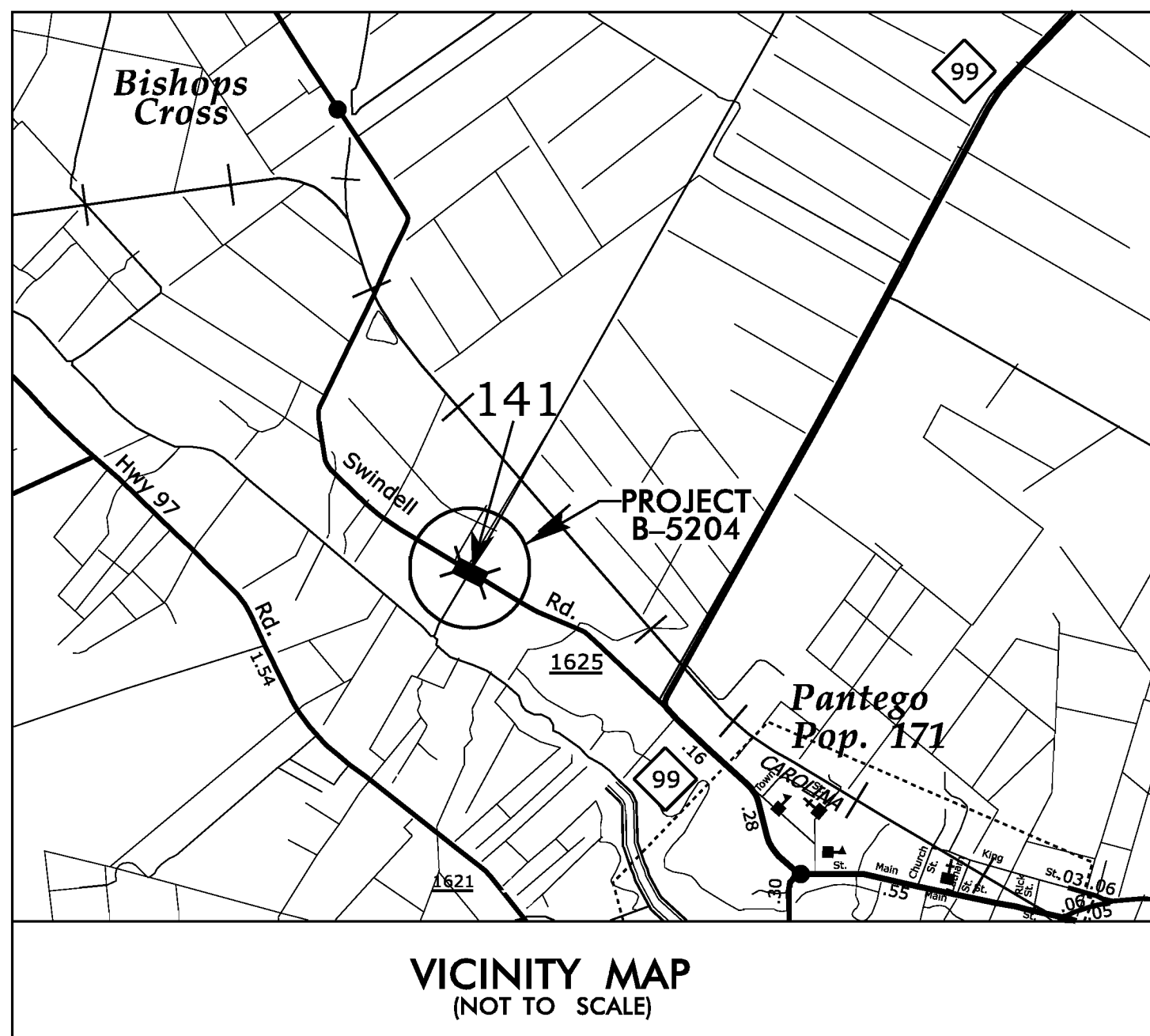
BEAUFORT COUNTY

**LOCATION: SR 1625 (SWINDELL RD), BRIDGE NO. 141
OVER PANTEGO DRAINAGE DISTRICT
CANAL #14**

**TYPE OF WORK: REPLACE EXISTING BRIDGE WITH
BOX CULVERT, PAVING, GRADING
AND DRAINAGE**

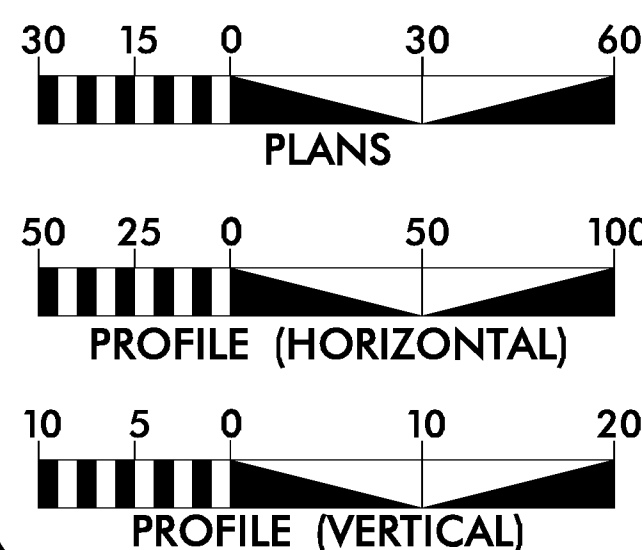
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5204	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45302.1.1	BRZ-1625(4)	PE	
45302.2.1	BRZ-1625(4)	RW	
45302.3.1	BRZ-1625(4)	CONST	

TIP PROJECT: B-5204



CONTRACT:

GRAPHIC SCALES



PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5204 = 0.047 MILE
TOTAL LENGTH OF TIP PROJECT B-5204 = 0.047 MILE

Prepared In the Office of:
DIVISION OF HIGHWAYS
105 Pictolus Hwy, Greenville NC, 27835

2012 STANDARD SPECIFICATIONS

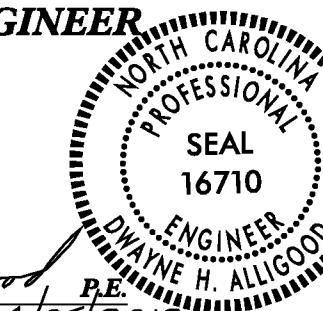
RIGHT OF WAY DATE:

DWAYNE H. ALLIGOOD
PROJECT ENGINEER

LETTING DATE:
APRIL 2012

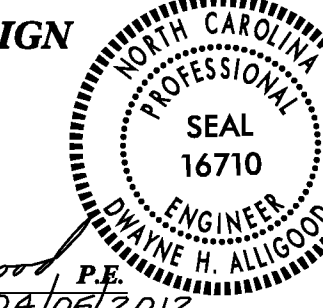
LANG JONES
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER



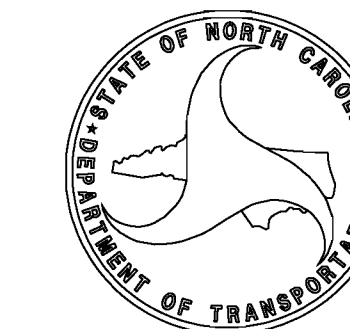
Dwayne H. Alligood
SIGNATURE: 10/4/09/2012

ROADWAY DESIGN
ENGINEER



Dwayne H. Alligood
SIGNATURE: 10/4/09/2012

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER P.E.

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INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF DRAINAGE, GUARDRAIL AND EARTHWORK QUANTITIES
4	PLAN SHEET
5	PROFILE SHEET
TCP1-TCP2	TRAFFIC CONTROL PLANS
EC1-EC3	EROSION CONTROL SHEETS
P1	PERMIT DRAWINGS
UC1-UC4	UTILITY CONSTRUCTION PLANS
U01	UTILITIES BY OTHERS PLANS
X1A	CROSS-SECTION SUMMARY
X1-X2	CROSS-SECTIONS
C1-C5	DOUBLE BARREL CONCRETE BOX CULVERT PLANS

GENERAL NOTES:

2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 11-01-11

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.

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE 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.

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.

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.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE BEAUFORT COUNTY WATER, TOWN OF BELHAVEN SEWER, CENTURYLINK, TRI-COUNTY MEMBERSHIP CORP AND TIDELAND ELECTRIC MEMBERSHIP CORP. ALL EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE.

CENTURYLINK LINES SHALL BE RELOCATED PRIOR TO THIS PROJECT.
CONTACT: CECELIA PRICE (TEL#: 252-321-9401)

TRICOUNTY LINES SHALL BE RELOCATED PRIOR TO THIS PROJECT.
CONTACT: CECIL WALKER (TEL#: 252-964-8021)

WATER LINE RELOCATION SHALL BE COORDINATED WITH BEAUFORT COUNTY WATER DEPARTMENT. CONTACT: CURTIS JETT (TEL#: 252-944-5047)

SEWER LINE RELOCATION SHALL BE COORDINATED WITH TOWN OF BELHAVEN SEWER. CONTACT: STEVE HALL (TEL#: 252-943-1400)

RIGHT-OF-WAY MARKERS:

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

2012 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 07-18-06

REV. 01-02-07

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 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.29	Frames and Narrow Slot Flat Grates
862.03	Structure Anchor Units

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	✕
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	-NLB-
Proposed Wetland Boundary	-NLB-
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	○
Wetland	⌵
Proposed Lateral, Tail, Head Ditch	← FLOW
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-
Proposed Temporary Utility Easement	-TUE-
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 Wheel Chair Ramp	○ WCR
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	○ 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--

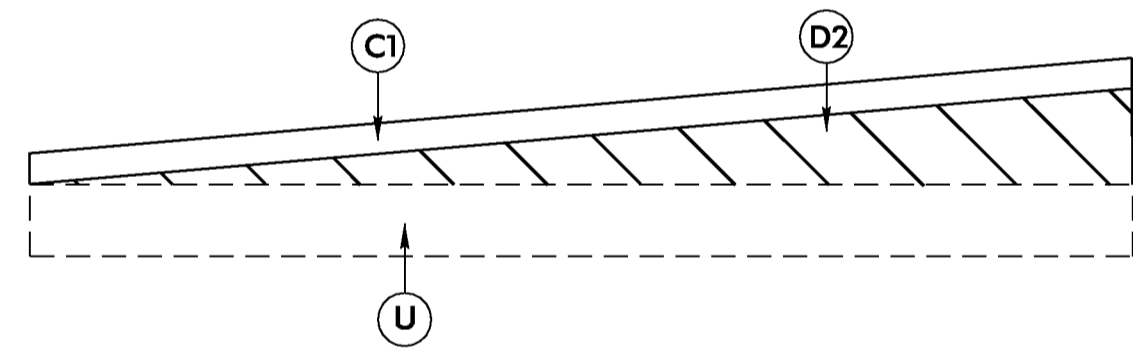
MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-?UTL-
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.

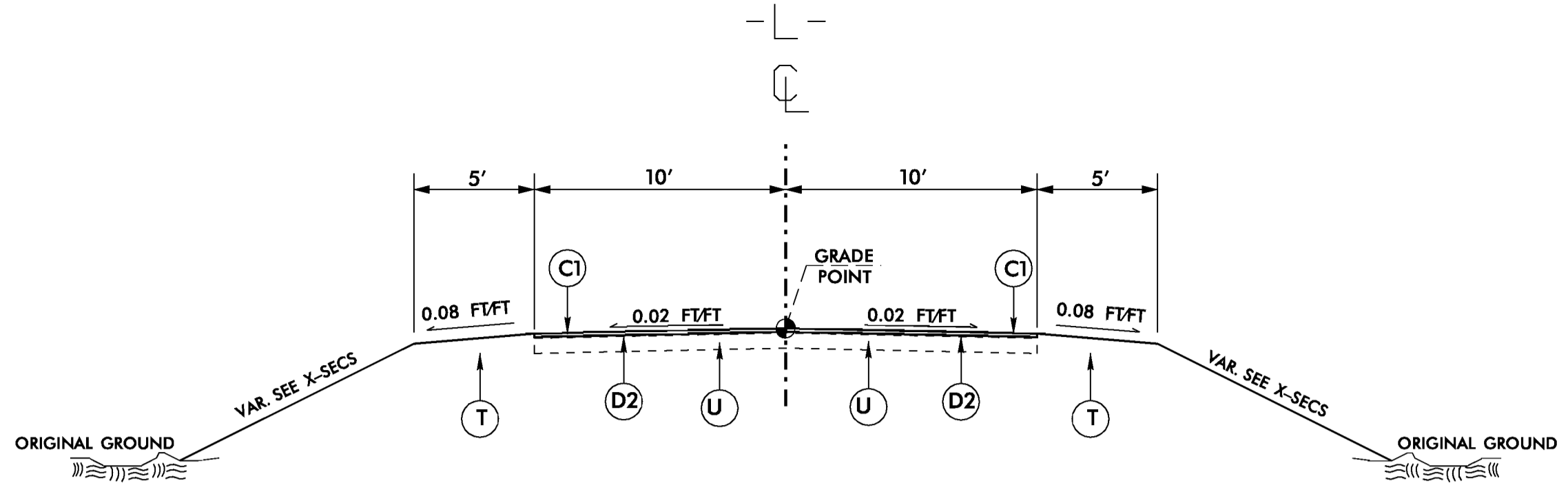
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C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 2 ½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH.
E1	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

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

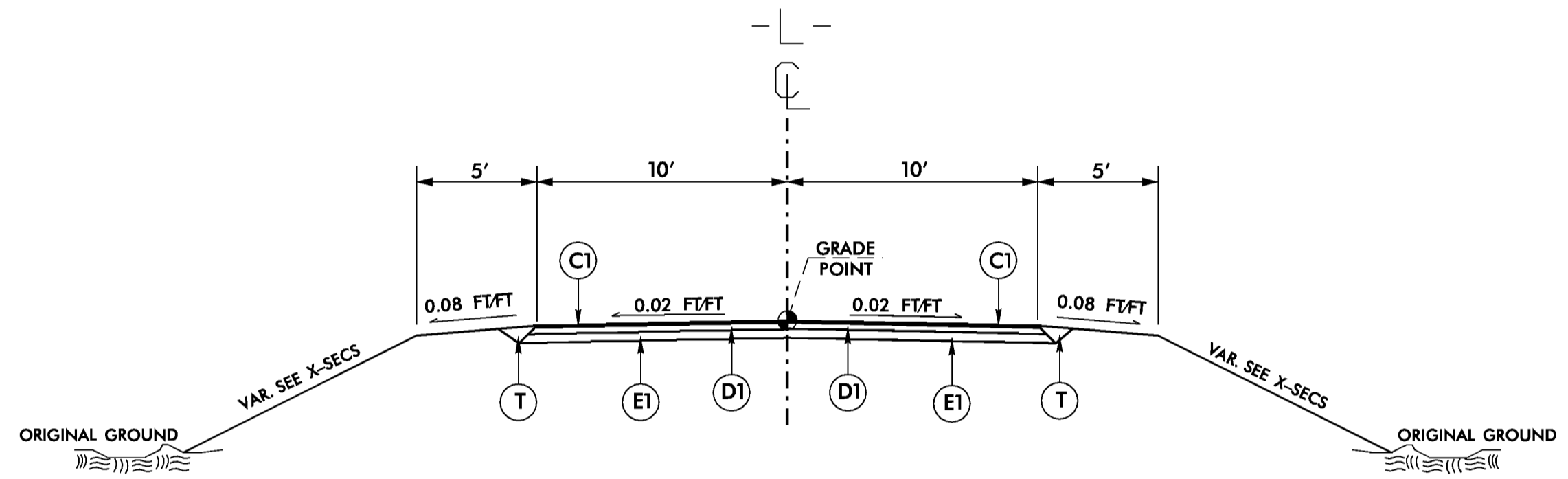


WEDGING DETAIL
NOT TO SCALE



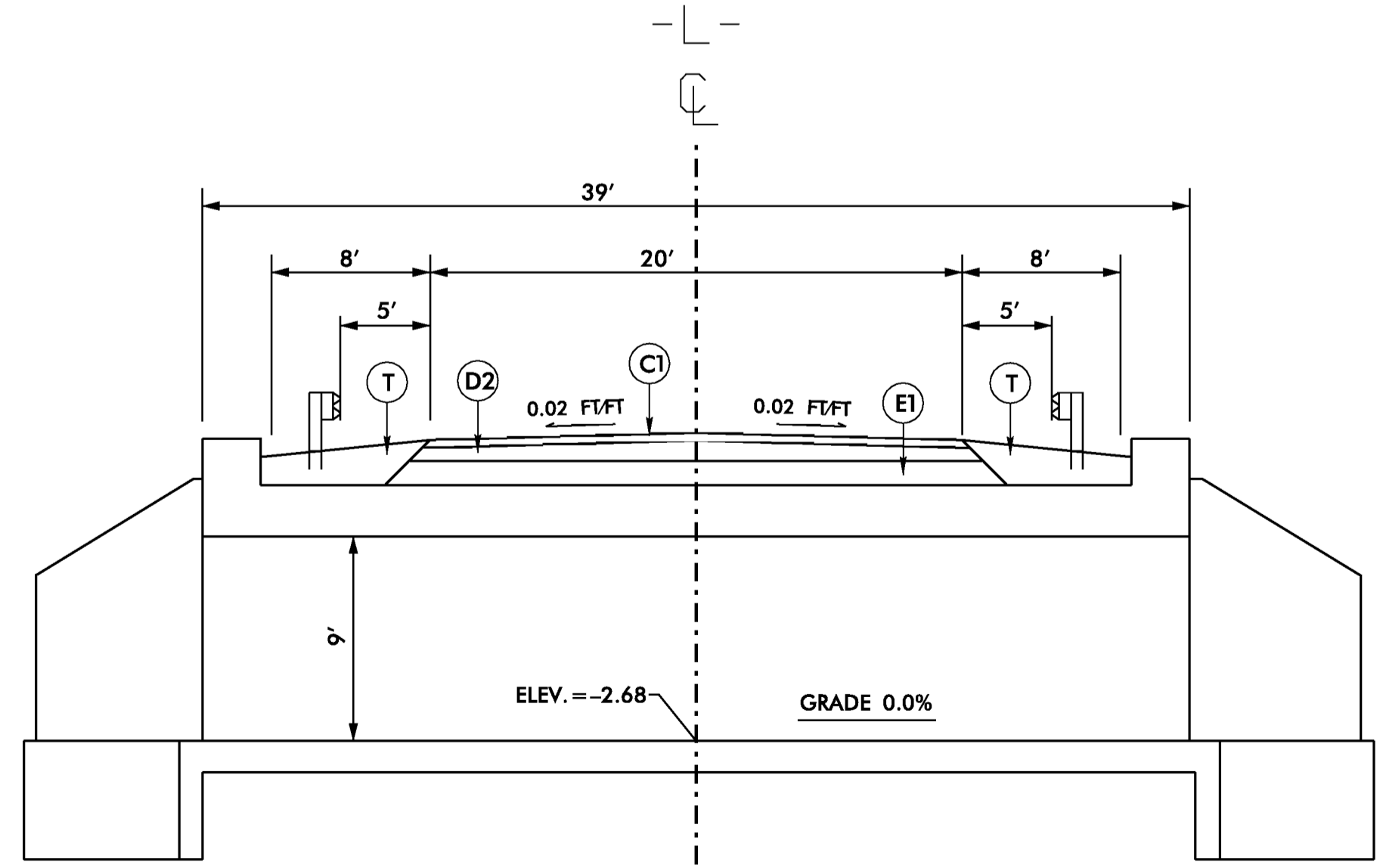
USE TYPICAL SECTION #1 (NTS)

-L- 15+00.00 - 16+06.70
-L- 16+58.64 - 17+50.00



USE TYPICAL SECTION #2 (NTS)

-L- 16+06.70 - 16+20.42
-L- 16+46.42 - 16+58.64



TYPICAL BOX CULVERT SECTION (NTS)

SEE SHEETS C1-C4 FOR BOX CULVERT DETAILS

REVISIONS

8/17/99

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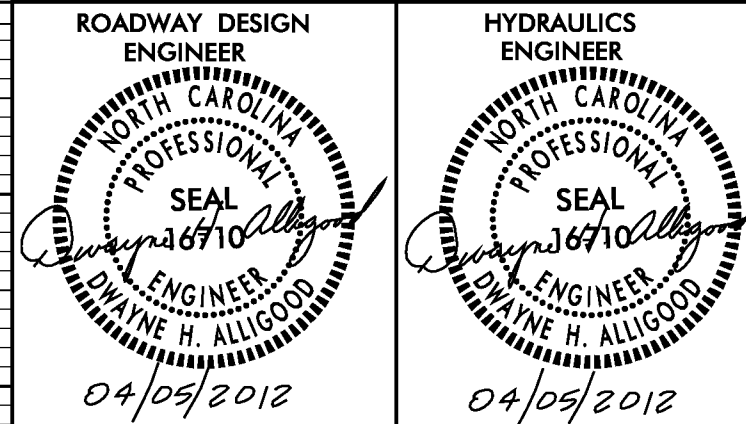
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

ITEM	SECT	QUANTITY	UNIT	ITEM DESCRIPTION	ITEM	SECT	QUANTITY	UNIT	ITEM DESCRIPTION
1	800	1	LS	MOBILIZATION	34	1639	1	EA	SPECIAL STILLING BASIN
2	801	1	LS	CONSTRUCTION SURVEYING	35	1660	1	ACRE	SEEDING AND MULCHING
3	226	1	LS	GRADING	36	1661	50	LB	SEED FOR REPAIR SEEDING
4	226	200	CY	UNDERCUT EXCAVATION	37	1661	0.2	TON	FERTILIZER FOR REPAIR SEEDING
5	300	30	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES					
6	300	100	SY	FOUNDATION CONDITIONING GEOTEXTILE					
7	310	66	LF	15" R.C. PIPE CULVERTS, CLASS III	38	402	1	LS	REMOVAL OF EXISTING STRUCTURE AT -L- STA 16+33.42
8	310	206	LF	18" R.C. PIPE CULVERTS, CLASS III	39	414	1	LS	CULVERT EXCAVATION, -L- STA. 16+33.42
9	340	155	LF	PIPE REMOVAL	40	414	110	TON	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT
10	545	15	TON	INCIDENTAL STONE BASE	41	420	128.3	CY	CLASS A CONCRETE (BOX CULVERT)
11	610	11	TON	ASPHALT CONCRETE BASE COURSE, TYPE B25.0B	42	425	21680	LB	REINFORCING STEEL (BOX CULVERT)
12	610	66	TON	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B					
13	610	55	TON	ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B					
14	SP	10	TON	ASPHALT BINDER FOR PLANT MIX					
15	840	4	EA	MASONRY DRAINAGE STRUCTURES					
16	840	4	EA	FRAME WITH GRATE, STD 840.29					
17	862	97	LF	STEEL BEAM GUARDRAIL					
18	862	36	LF	STEEL BEAM GUARDRAIL, SHOP CURVED					
19	862	1	EA	GUARDRAIL ANCHOR UNITS, TYPE 350					
20	862	3	EA	GUARDRAIL ANCHOR UNITS, CAT-1					
21	SP	1	LS	RELOCATE EXISTING 2" SANITARY FORCE MAIN					
22	SP	1	LS	RELOCATE EXISTING 6" WATER MAIN					
23	1605	400	LF	TEMPORARY SILT FENCE					
24	1610	5	TON	STONE FOR EROSION CONTROL, CLASS B					
25	1610	5	TON	SEDIMENT CONTROL STONE					
26	1615	1	ACRE	TEMPORARY MULCHING					
27	1620	50	LB	SEED FOR TEMPORARY SEEDING					
28	1620	0.2	TON	FERTILIZER FOR TEMPORARY SEEDING					
29	1622	200	LF	TEMPORARY SLOPE DRAINS					
30	SP	350	LF	SAFETY FENCE					
31	1630	10	CY	SILT EXCAVATION					
32	1631	430	SY	MATTING FOR EROSION CONTROL					
33	1632	144	LF	1/4" HARDWARE CLOTH					

REVISIONS

8/17/99

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BM-1
 -L- STA. 15+98.73
 111.33' LT
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 E= 2691510.5854
 ELEV.= 10.44

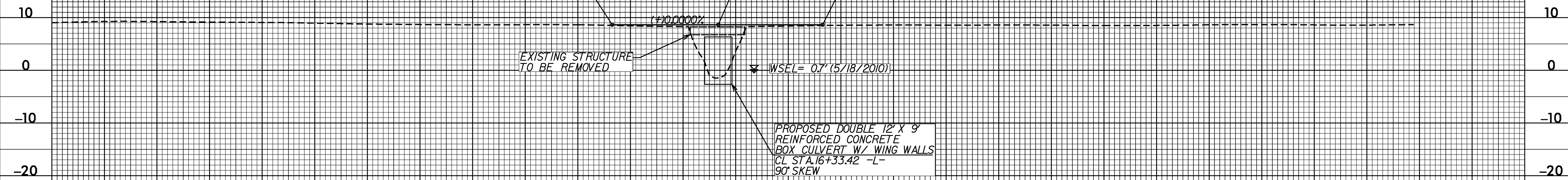
BL-2
 -L- STA. 15+99.50
 21.35' LT
 N= 680711.3837
 E= 2691464.4789
 ELEV.= 7.58

BL-3
 -L- STA. 22+65.95
 27.93' LT
 N= 680371.7969
 E= 2692037.5314
 ELEV.= 8.19

BEGIN GRADE -L- STA. 15+32.60
 EL= 8.64

GRADE AT CULVERT CL
 -L- 16+33.42
 EL= 8.64

END GRADE -L- STA. 17+32.60
 EL= 8.64



-L- PROFILE
 SCALE: 1" = 50' HORIZ.
 1" = 10' VERT.

HYDRAULIC DATA (c.f.s.)			
	Q	EXIST.	PROP.
10-YR	219	2.2	1.7
25-YR	307	2.8	2.2
50-YR	386	3.2	2.6
100-YR	474	3.7	3.0
500-YR	682	4.6	4.0
O.T.	>682	4.6	>4.0

*NOTE: ELEVATIONS FROM HEC-RAS RS 4

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-5204	TCP-1

**PLAN FOR PROPOSED
TRAFFIC CONTROL**

BEAUFORT COUNTY

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"-
HIGHWAY DESIGN BRANCH-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C.,
DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE
CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES (TYPE III)

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
TCP-2	PROJECT NOTES, DETOUR, AND PLANS

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
 - TYPE II BARRICADE
 - TYPE III BARRICADE
 - CONE
 - DRUM SKINNY DRUM
 - FLASHING ARROW PANEL (TYPE C)
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - CRASH CUSHION
 - CHANGEABLE MESSAGE SIGN
 - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - POLICE
 - FLAGGER

PROJECT: B-5204

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APPROVED: DATE: 04/09/2012	PLAN PREPARED BY: N.C.D.O.T. DIVISION 2 DDC UNIT
SEAL 	D. H. ALLIGOOD, PE TRAFFIC CONTROL ENGINEER
	D. H. ALLIGOOD, PE TRAFFIC CONTROL PROJECT ENGINEER
	LANG JONES TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	V. TRAN TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

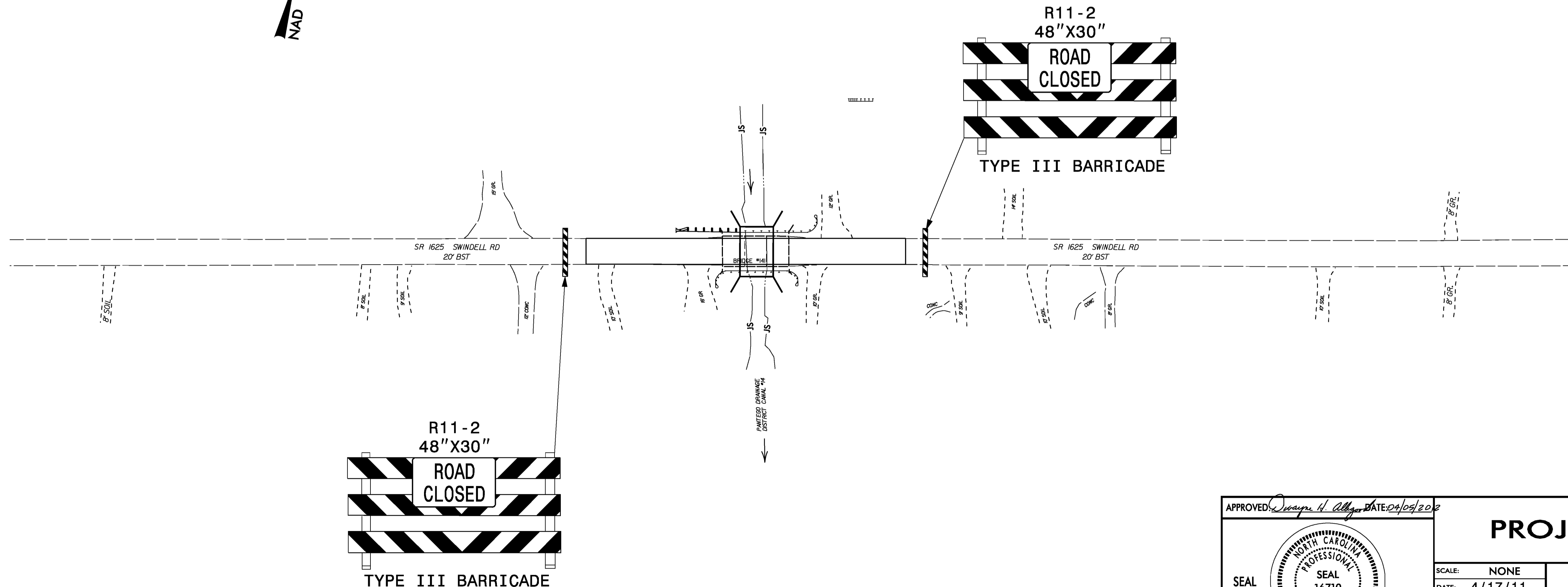
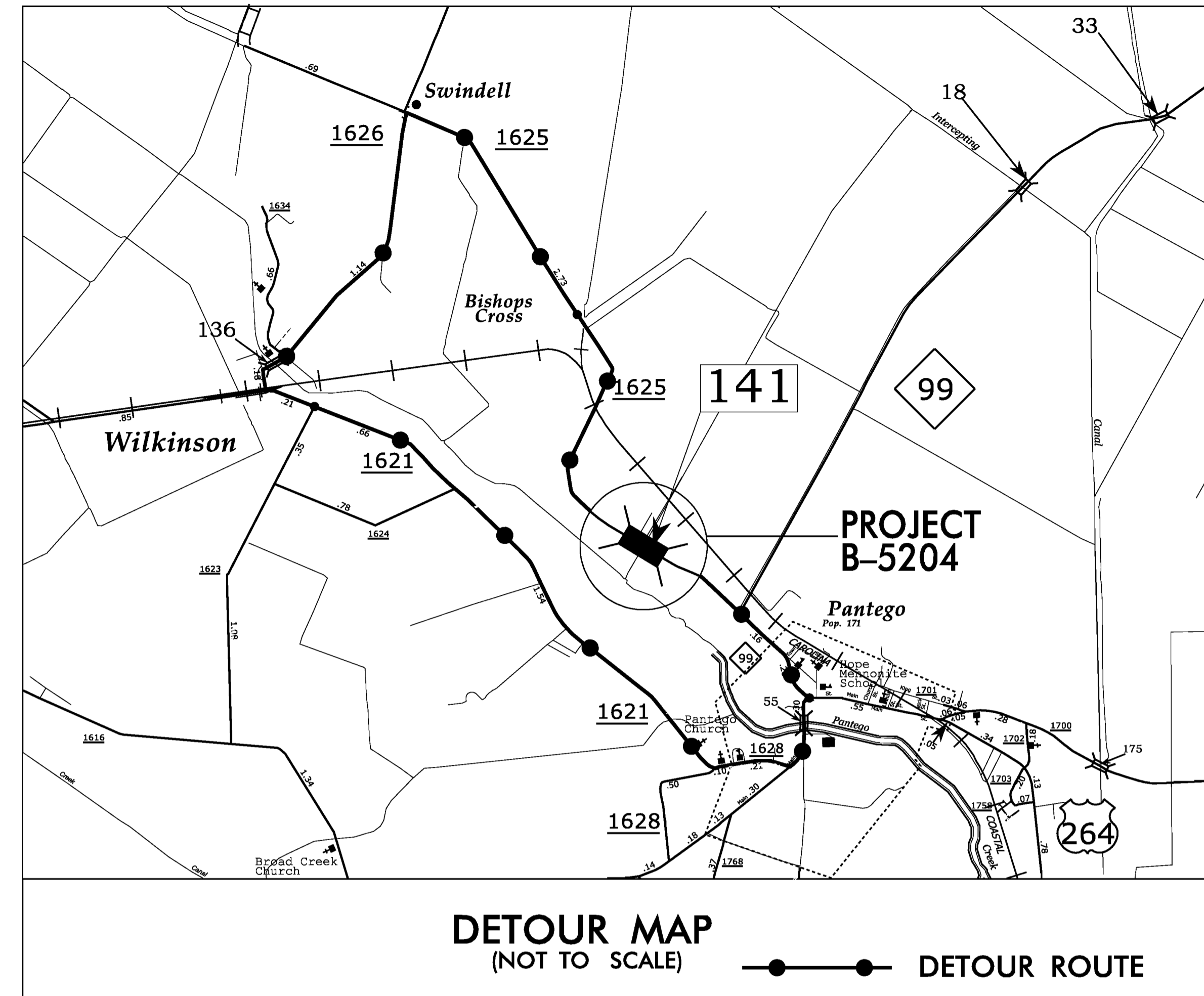
GENERAL NOTES

IMPLEMENT TRAFFIC CONTROL IN ACCORDANCE WITH THE ROADWAY STANDARD DRAWINGS LISTED ON TCP-1.

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

STATE FORCES WILL INSTALL AND MAINTAIN THE PROJECT DETOUR AND THE TYPE III BARRICADES AT THE PROJECT LIMITS. STATE FORCES WILL INSTALL PAINT AND MARKERS ON THE FINISHED PROJECT. CALL JIM EVANS AT 252-830-3493 FOR COORDINATION.

NAD 83/NSRS 2007

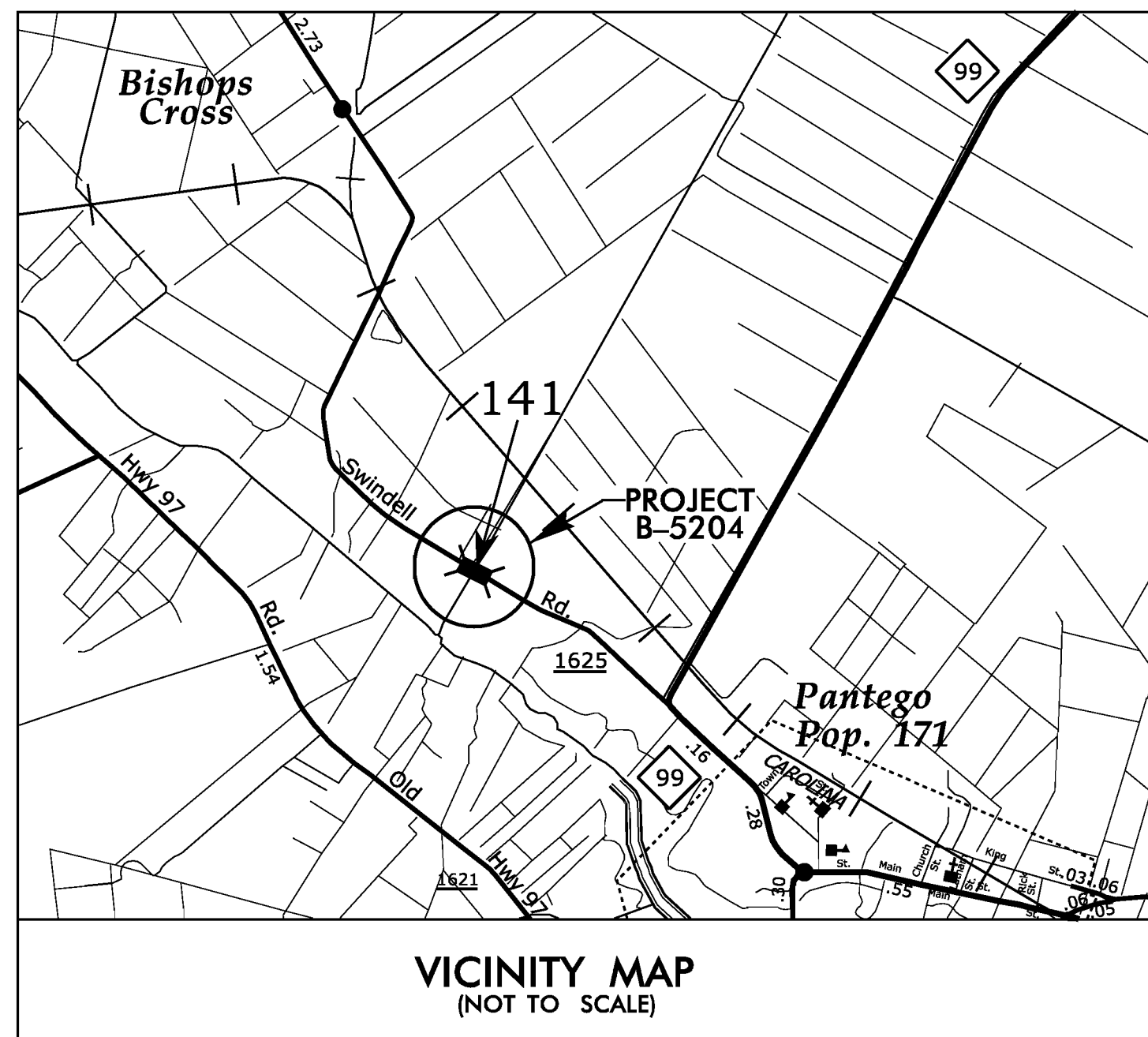


APPROVED: <i>Wayne H. Allgood</i> DATE: 04/17/11		PROJECT NOTES																					
				<table border="1"> <tr> <td>SCALE:</td> <td>NONE</td> <td colspan="2">REVISIONS</td> </tr> <tr> <td>DATE:</td> <td>4/17/11</td> <td></td> <td></td> </tr> <tr> <td>DWG. BY:</td> <td>LJ</td> <td></td> <td></td> </tr> <tr> <td>DESIGN BY:</td> <td>LJ</td> <td></td> <td></td> </tr> <tr> <td>REVIEWED BY:</td> <td>BB</td> <td></td> <td></td> </tr> </table>		SCALE:	NONE	REVISIONS		DATE:	4/17/11			DWG. BY:	LJ			DESIGN BY:	LJ			REVIEWED BY:	BB
SCALE:	NONE	REVISIONS																					
DATE:	4/17/11																						
DWG. BY:	LJ																						
DESIGN BY:	LJ																						
REVIEWED BY:	BB																						

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 USER:WAYNE

09/08/99

See Sheet 1-A For Index of Sheets



VICINITY MAP
(NOT TO SCALE)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

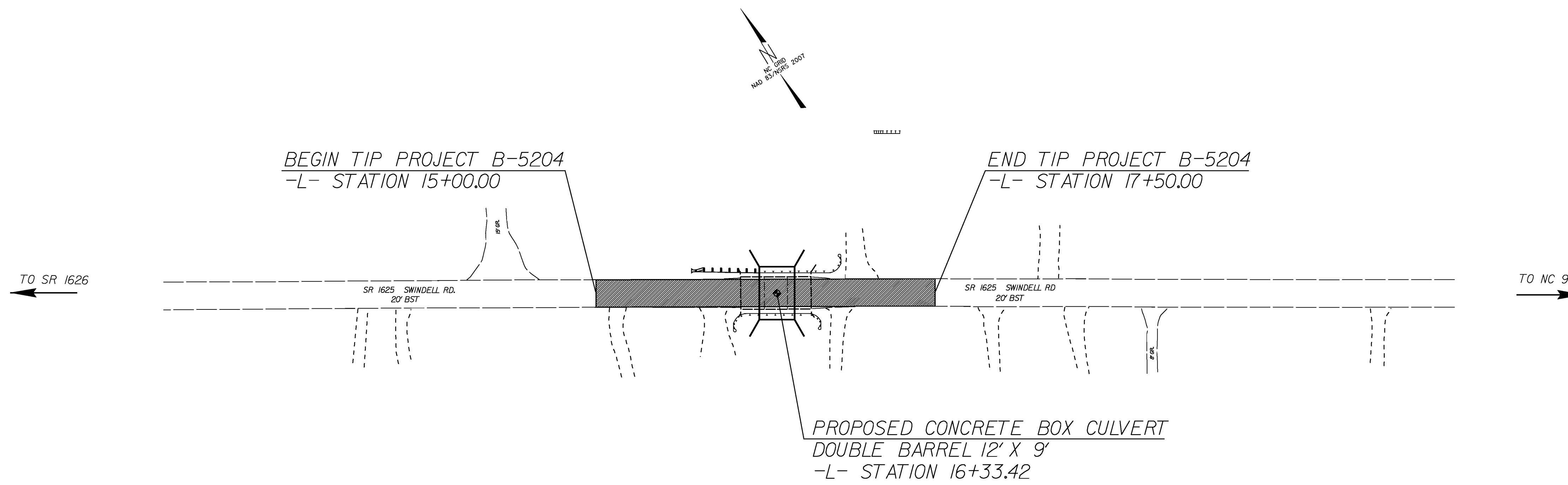
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5204	EC1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45302.1.1	BRZ-1625(4)	PE	
45302.2.1	BRZ-1625(4)	RW	
45302.3.1	BRZ-1625(4)	CONST	

Std. #	Description	Symbol
1605.01	High Vis Temporary Silt Fence	
1606.01	Special Sediment Control Fence	△△△△△
1630.06	Silt Bag (Special Stilling Basin)	☒
1632.03	Rock Inlet Sediment Trap, C	☒

THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST ON
THIS PROJECT



GRAPHIC SCALES



PLANS

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5204 = 0.047 MILE
TOTAL LENGTH OF TIP PROJECT B-5204 = 0.047 MILE

Prepared In the Office of:
DIVISION OF HIGHWAYS
105 Pictolus Hwy, Greenville NC, 27835

2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	DWAYNE H. ALLIGOOD PROJECT ENGINEER
LETTING DATE:	LANG JONES (#276) PROJECT DESIGN ENGINEER
APRIL 2012	

Roadway Standard Drawings

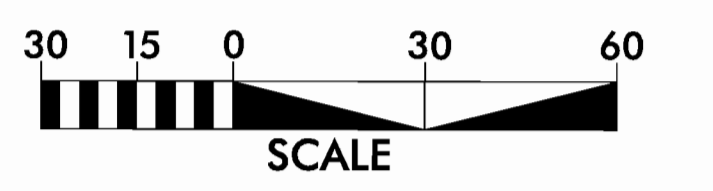
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1630.06 Special Stilling Basin
1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
1606.01 Special Sediment Control Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.01 Riser Basin	1633.01 Temporary Rock Silt Check Type A
1630.03 Temporary Silt Ditch	1634.01 Temporary Rock Sediment Dam Type A
1630.04 Stilling Basin	1634.02 Temporary Rock Sediment Dam Type B
1630.05 Temporary Diversion	1635.01 Rock Pipe Inlet Sediment Trap Type A
	1635.02 Rock Pipe Inlet Sediment Trap Type B

TIP PROJECT: B-5204

CONTRACT:

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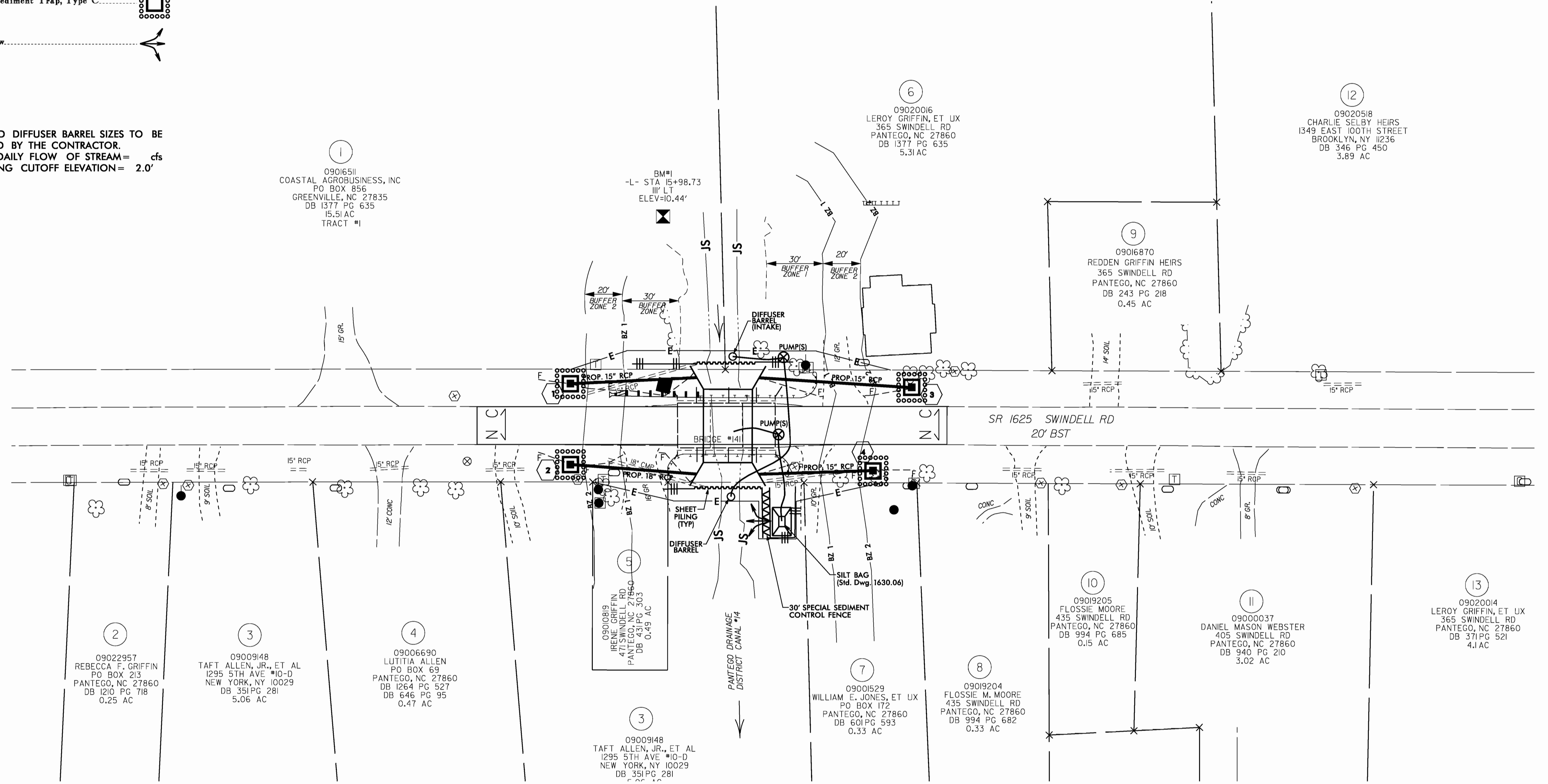
KAD 8/23/07 GWA

LEGEND:

- High Visibility Temporary Silt Fence.....
- Special Sediment Control Fence.....
- Silt Bag (Std. Dwg. 1630.06).....
- Sheet Piling.....
- Pump with Inlet / Outlet Pipe.....
- Diffuser Barrel.....
- Rock Inlet Sediment Trap, Type C.....
- Diffused Flow.....

NOTES:

1. PUMPS AND DIFFUSER BARREL SIZES TO BE DETERMINED BY THE CONTRACTOR.
2. AVERAGE DAILY FLOW OF STREAM = cfs
3. SHEET PILING CUTOFF ELEVATION = 2.0'



09016511
COASTAL AGROBUSINESS, INC
PO BOX 856
GREENVILLE, NC 27835
DB 1377 PG 635
15.51 AC
TRACT #1

BM#1
-L- STA 15+98.73
III' LT
ELEV=10.44'

09020016
LEROY GRIFFIN, ET UX
365 SWINDELL RD
PANTEGO, NC 27860
DB 1377 PG 635
5.31 AC

09020518
CHARLIE SELBY HEIRS
1349 EAST 100TH STREET
BROOKLYN, NY 11236
DB 346 PG 450
3.89 AC

09016870
REDDEN GRIFFIN HEIRS
365 SWINDELL RD
PANTEGO, NC 27860
DB 243 PG 218
0.45 AC

09022957
REBECCA F. GRIFFIN
PO BOX 213
PANTEGO, NC 27860
DB 1210 PG 718
0.25 AC

09009148
TAFT ALLEN, JR., ET AL
1295 5TH AVE #10-D
NEW YORK, NY 10029
DB 351 PG 281
5.06 AC

09006690
LUTITIA ALLEN
PO BOX 69
PANTEGO, NC 27860
DB 1264 PG 527
DB 646 PG 95
0.47 AC

09010819
IRENE GRIFFIN
471 SWINDELL RD
PANTEGO, NC 27860
DB 431 PG 303
0.49 AC

09009148
TAFT ALLEN, JR., ET AL
1295 5TH AVE #10-D
NEW YORK, NY 10029
DB 351 PG 281

09001529
WILLIAM E. JONES, ET UX
PO BOX 172
PANTEGO, NC 27860
DB 601 PG 593
0.33 AC

09019204
FLOSSIE M. MOORE
435 SWINDELL RD
PANTEGO, NC 27860
DB 994 PG 682
0.33 AC

09019205
FLOSSIE MOORE
435 SWINDELL RD
PANTEGO, NC 27860
DB 994 PG 685
0.15 AC

09000037
DANIEL MASON WEBSTER
405 SWINDELL RD
PANTEGO, NC 27860
DB 940 PG 210
3.02 AC

09020014
LEROY GRIFFIN, ET UX
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PANTEGO, NC 27860
DB 371 PG 521
4.1 AC

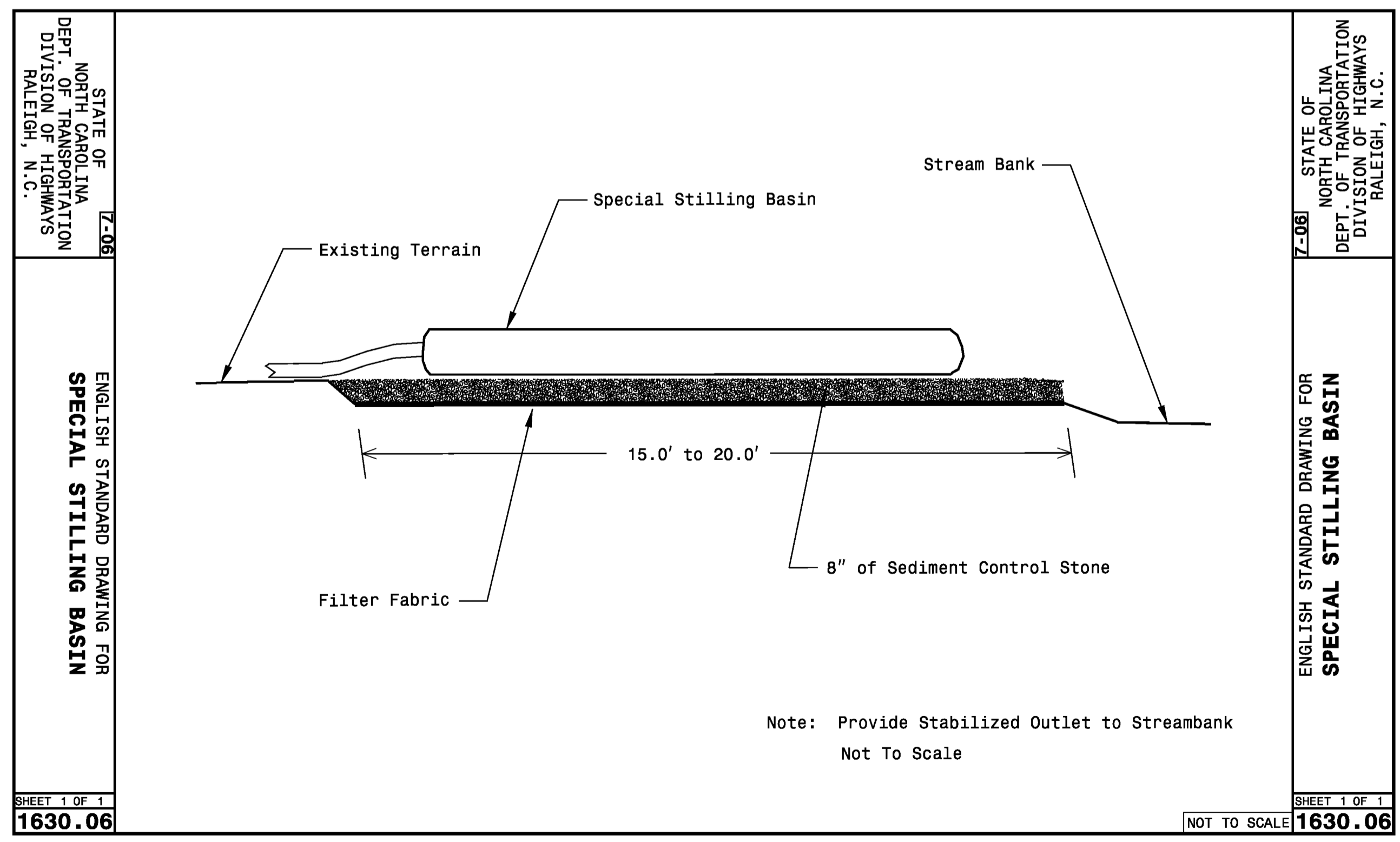
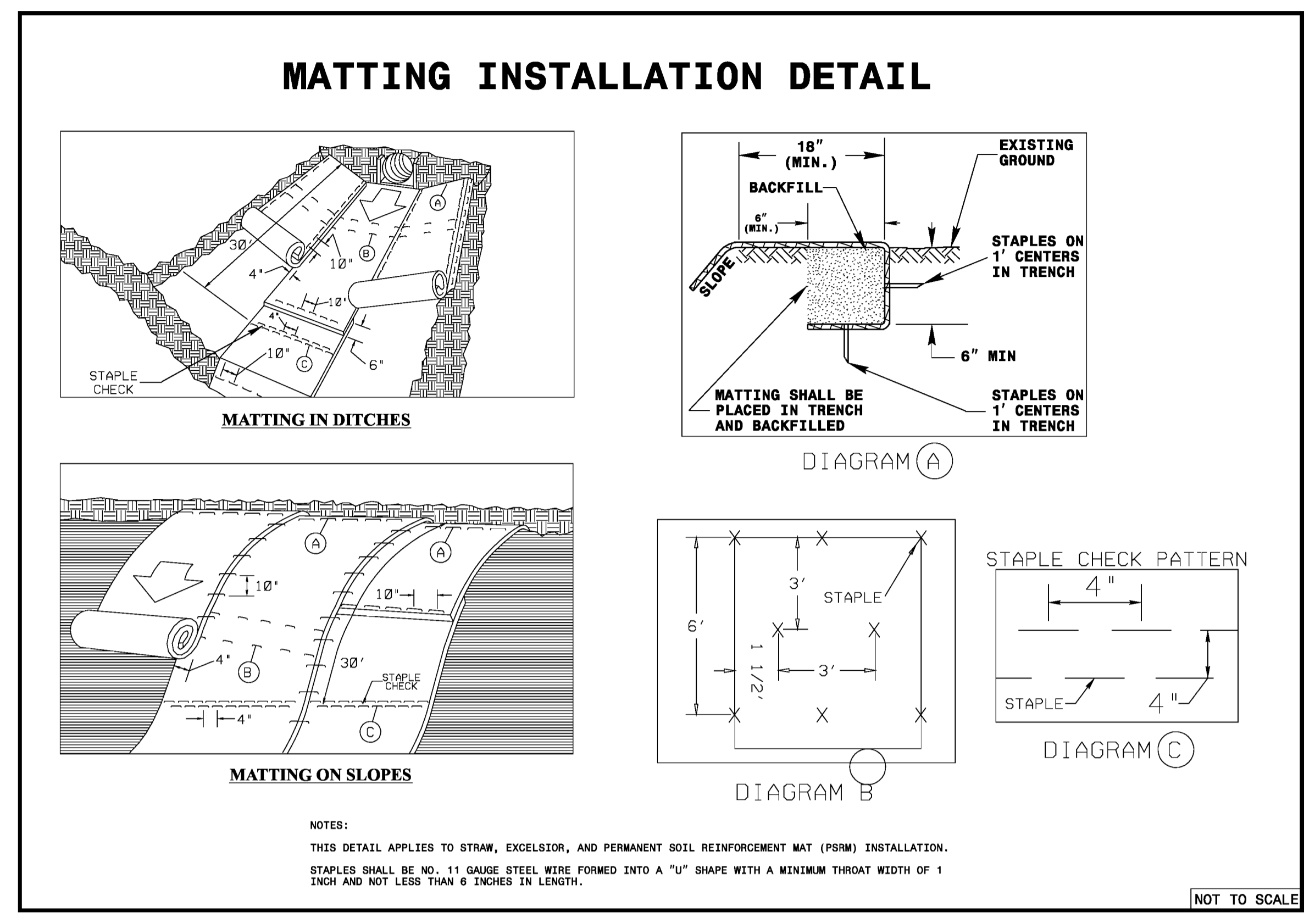
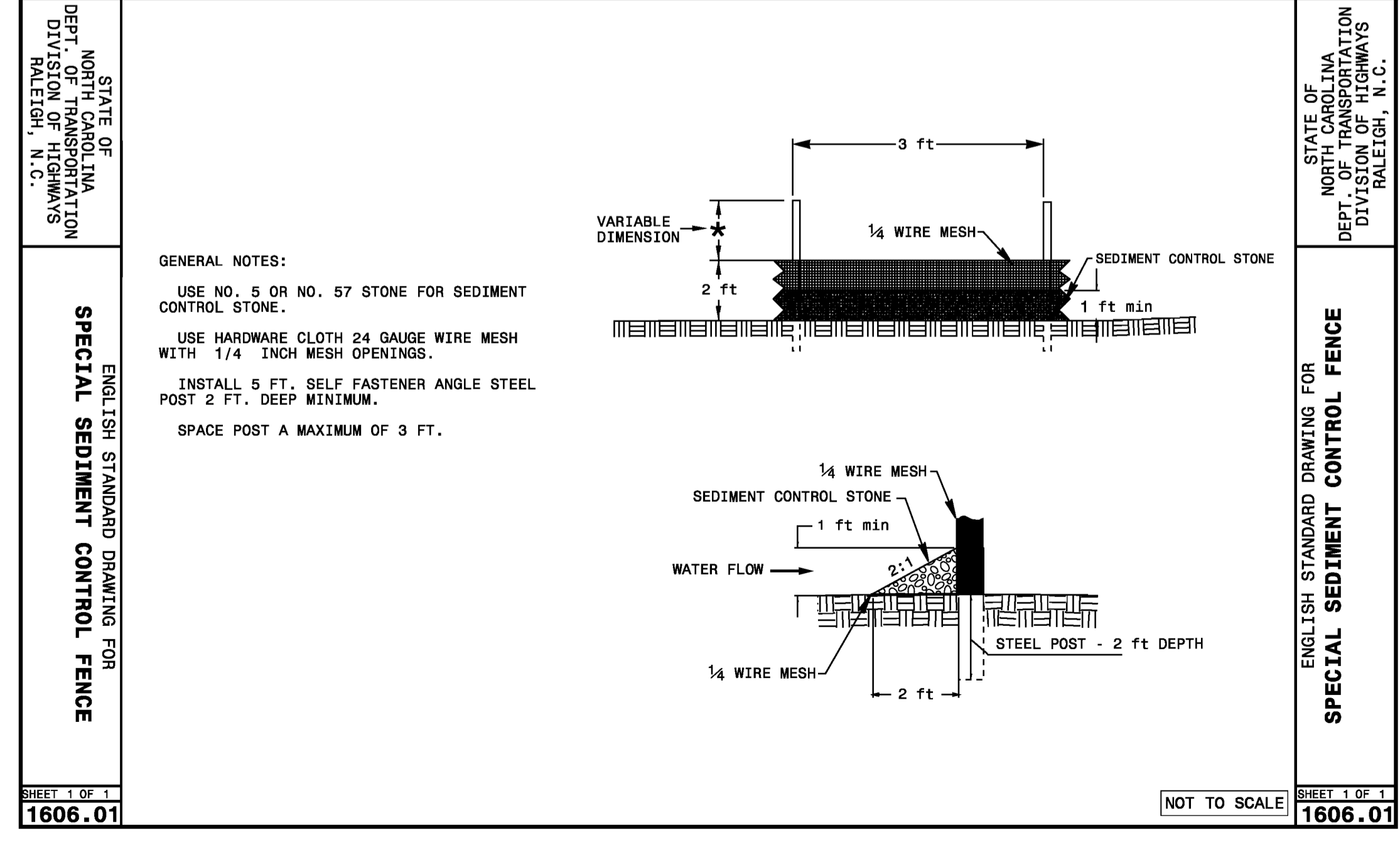
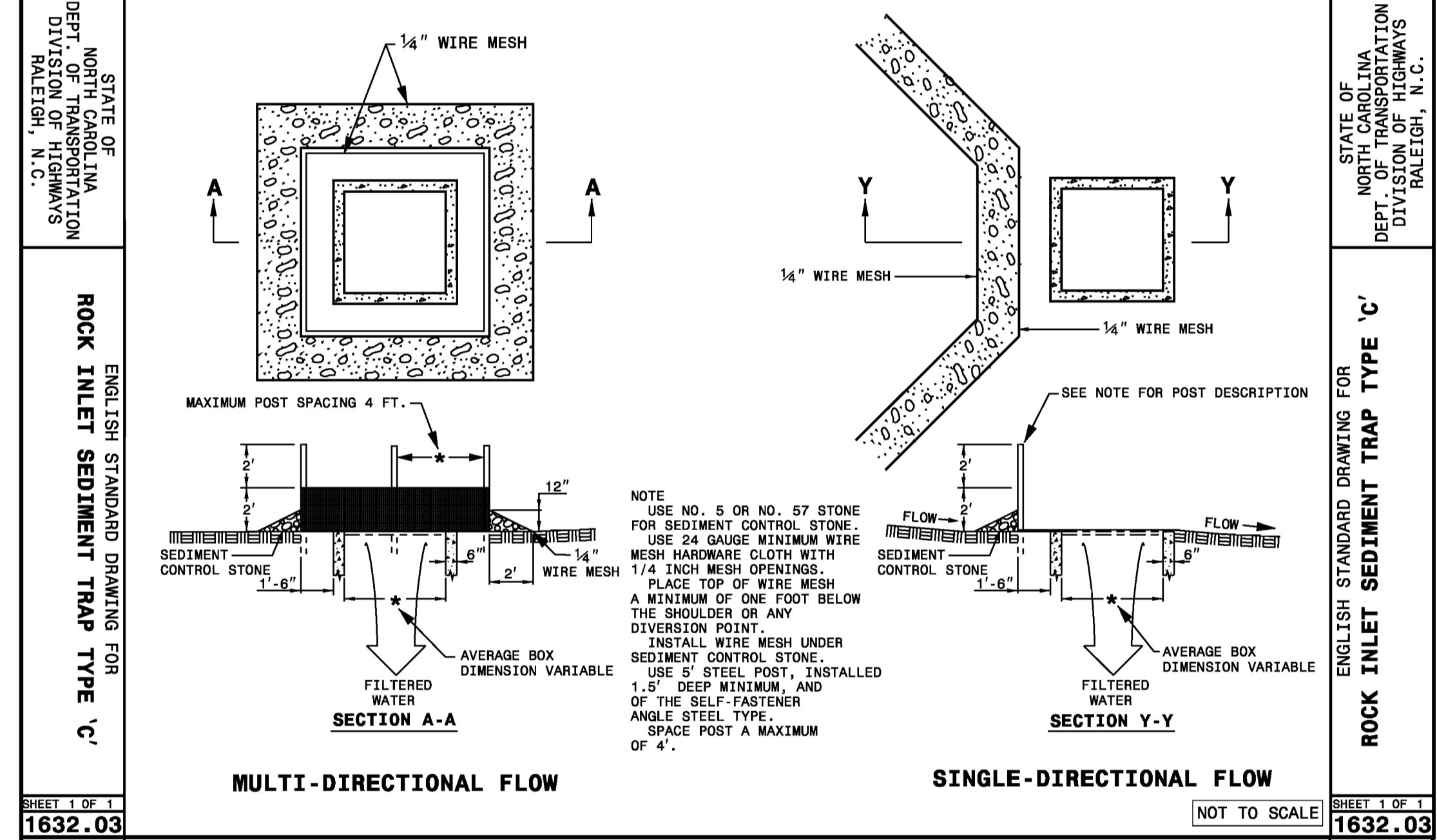
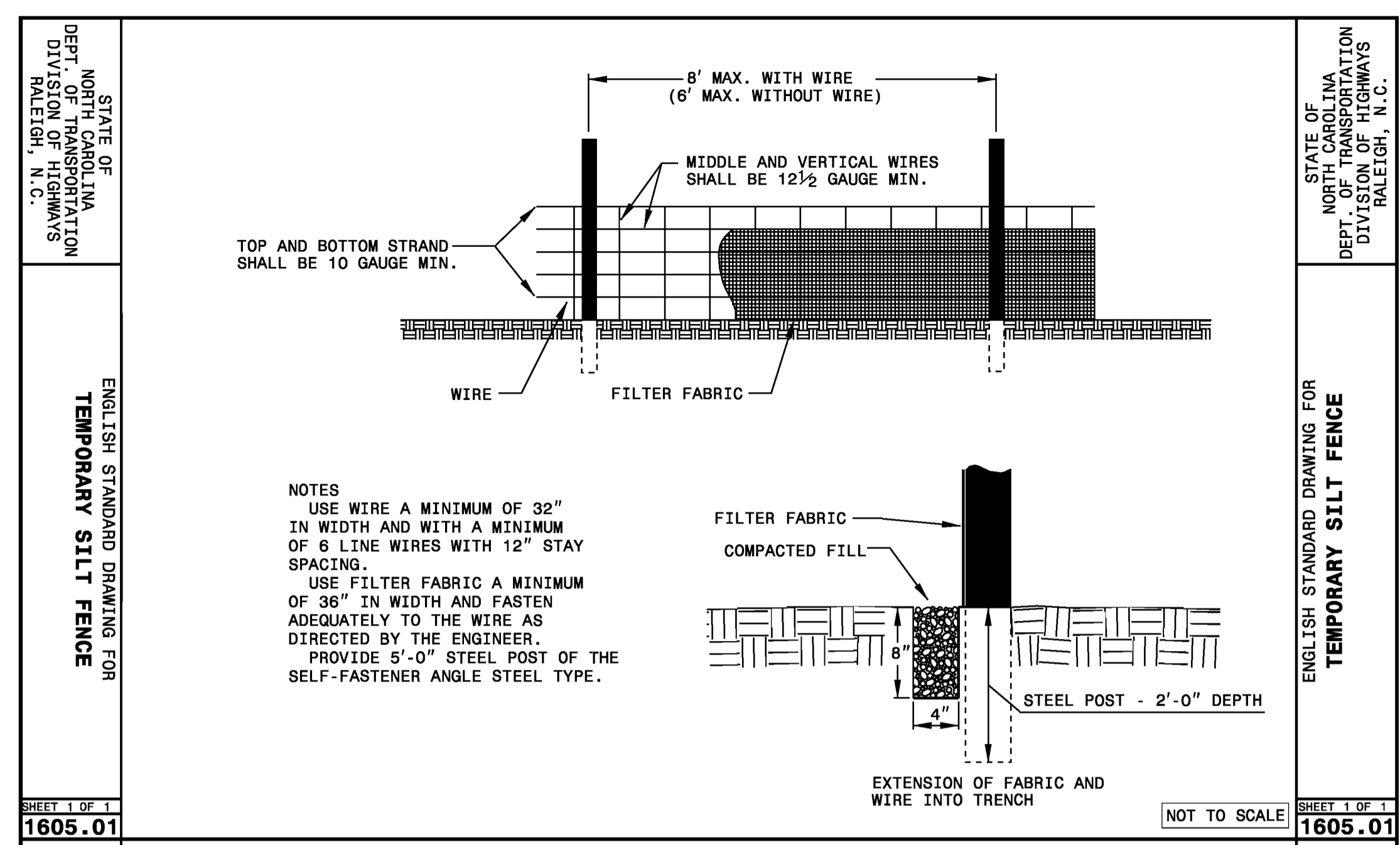
REVISIONS

8/17/09

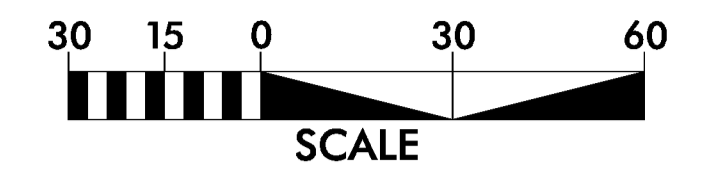
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REVISIONS



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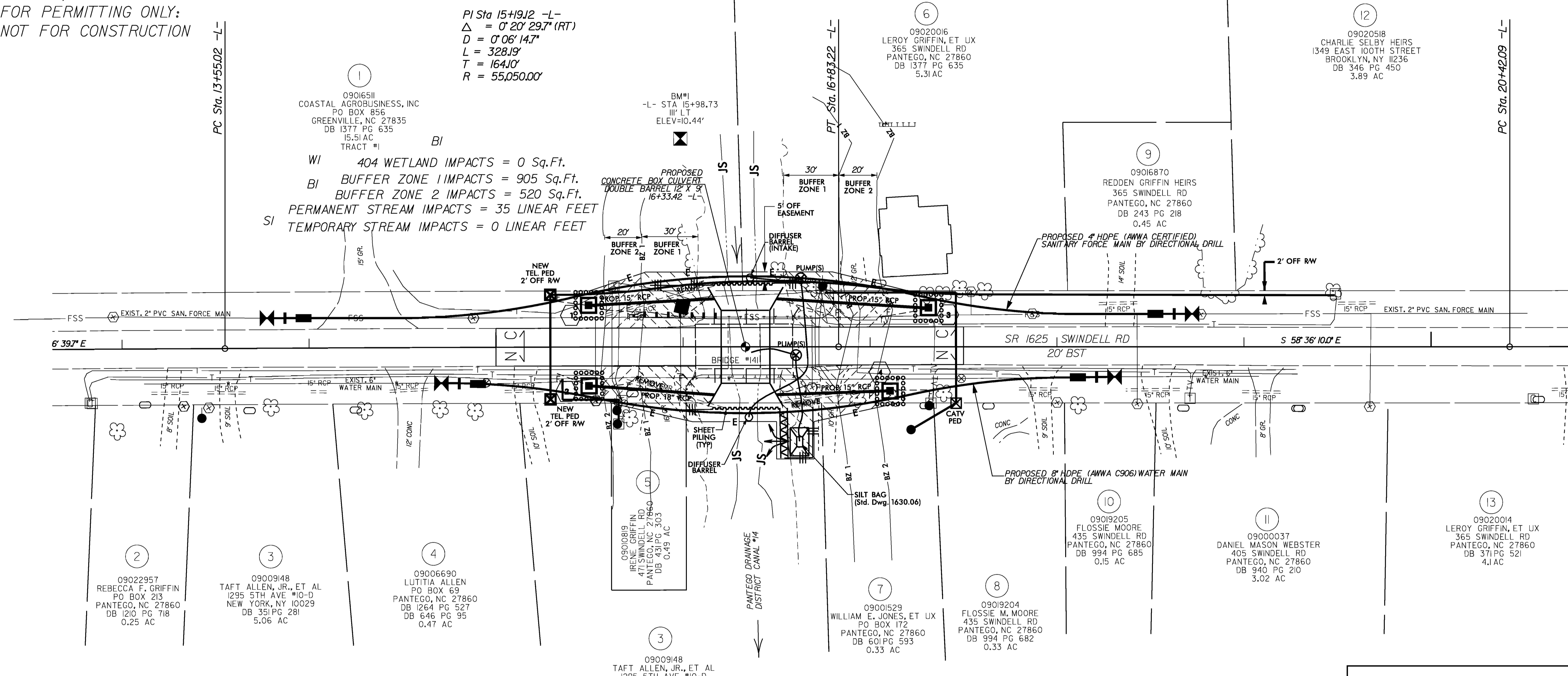
NCDOT
 B-5204 BEAUFORT COUNTY
 REPLACE BRIDGE NO.141
 SR 1625 (SWINDELL RD)
 OVER PANTEGO DISTRICT CANAL #14
 BETWEEN SR 1626 AND NC 99
 RGP 31,NWP 12,AND BUFFER
 AUTHORIZATION APPLICATION
 WBS ELEMENT NUMBER 45302.IJ

TOTALS
 404 WETLAND IMPACTS = 0 Sq.Ft.
 BUFFER ZONE 1 IMPACTS = 3745 Sq.Ft.
 BUFFER ZONE 2 IMPACTS = 2025 Sq.Ft.
 PERMANENT STREAM IMPACTS = 70 LINEAR FEET
 TEMPORARY STREAM IMPACTS = 10 LINEAR FEET

SCALE: 1"=30' (FULL-SIZE 22"X34")
 SCALE: 1"=60' (HALF-SIZE 11"X17")
 JULY 20, 2011
 FOR PERMITTING ONLY:
 NOT FOR CONSTRUCTION

B2
 404 WETLAND IMPACTS = 0 Sq.Ft.
 BUFFER ZONE 1 IMPACTS = 920 Sq.Ft.
 BUFFER ZONE 2 IMPACTS = 545 Sq.Ft.
 PERMANENT STREAM IMPACTS = 0 LINEAR FEET
 TEMPORARY STREAM IMPACTS = 5 LINEAR FEET

EXISTING 53' LONG BY 24' WIDE
 REINFORCED CONCRETE FLOOR ON
 TIMBER PILES BRIDGE
 PROPOSED 12' x 9' DOUBLE BARREL
 CONCRETE BOX CULVERT

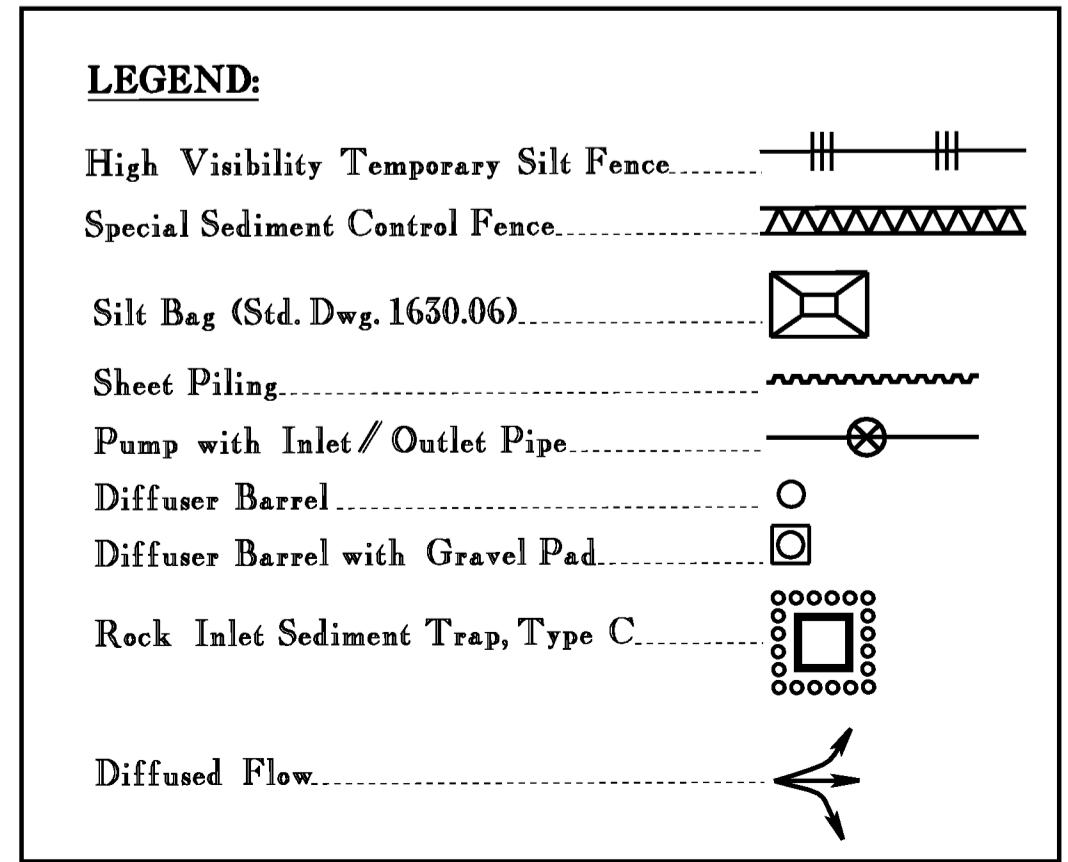
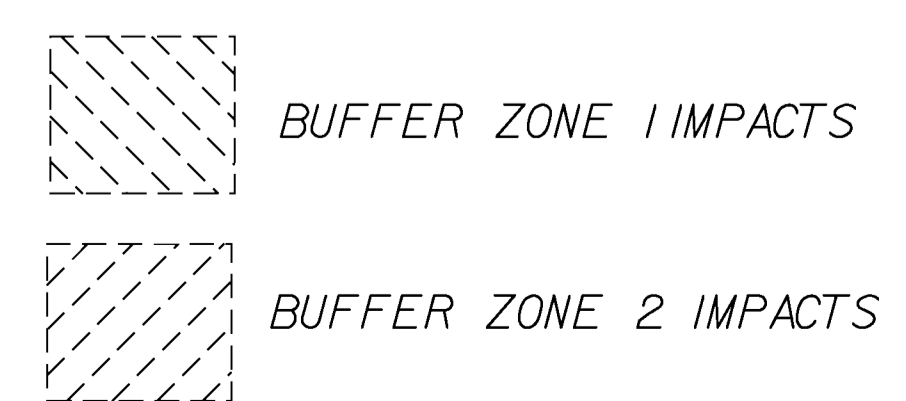


NOTES:
 (1) B-5204 IS ON THE PANTEGO USGS QUAD MAP AND SHEET NUMBER 9 OF THE SOILS SURVEY OF BEAUFORT COUNTY
 (2) FIRM PANEL 6688 J, MAP NUMBER 3720668800 J
 (3) B-5204 IS IN THE TAR-PAMLICO RIVER BASIN PANTEGO CREEK; C; Sw; NSW HUC CODE 03020104
 (4) NO MORATORIUM AS PER TRAVIS WILSON, NCWRC NOVEMBER 19, 2009
 (5) CAMA: NON-JURISDICTIONAL AS PER STEPHEN LANE, NCDOT DECEMBER 11, 2009

B3
 404 WETLAND IMPACTS = 0 Sq.Ft.
 BUFFER ZONE 1 IMPACTS = 1150 Sq.Ft.
 BUFFER ZONE 2 IMPACTS = 520 Sq.Ft.
 PERMANENT STREAM IMPACTS = 0 LINEAR FEET
 TEMPORARY STREAM IMPACTS = 5 LINEAR FEET

B4
 404 WETLAND IMPACTS = 0 Sq.Ft.
 BUFFER ZONE 1 IMPACTS = 770 Sq.Ft.
 BUFFER ZONE 2 IMPACTS = 440 Sq.Ft.
 PERMANENT STREAM IMPACTS = 35 LINEAR FEET
 TEMPORARY STREAM IMPACTS = 0 LINEAR FEET

B5
 404 WETLAND IMPACTS = 0 Sq.Ft.
 BUFFER ZONE 1 IMPACTS = 905 Sq.Ft.
 BUFFER ZONE 2 IMPACTS = 520 Sq.Ft.
 PERMANENT STREAM IMPACTS = 35 LINEAR FEET
 TEMPORARY STREAM IMPACTS = 0 LINEAR FEET

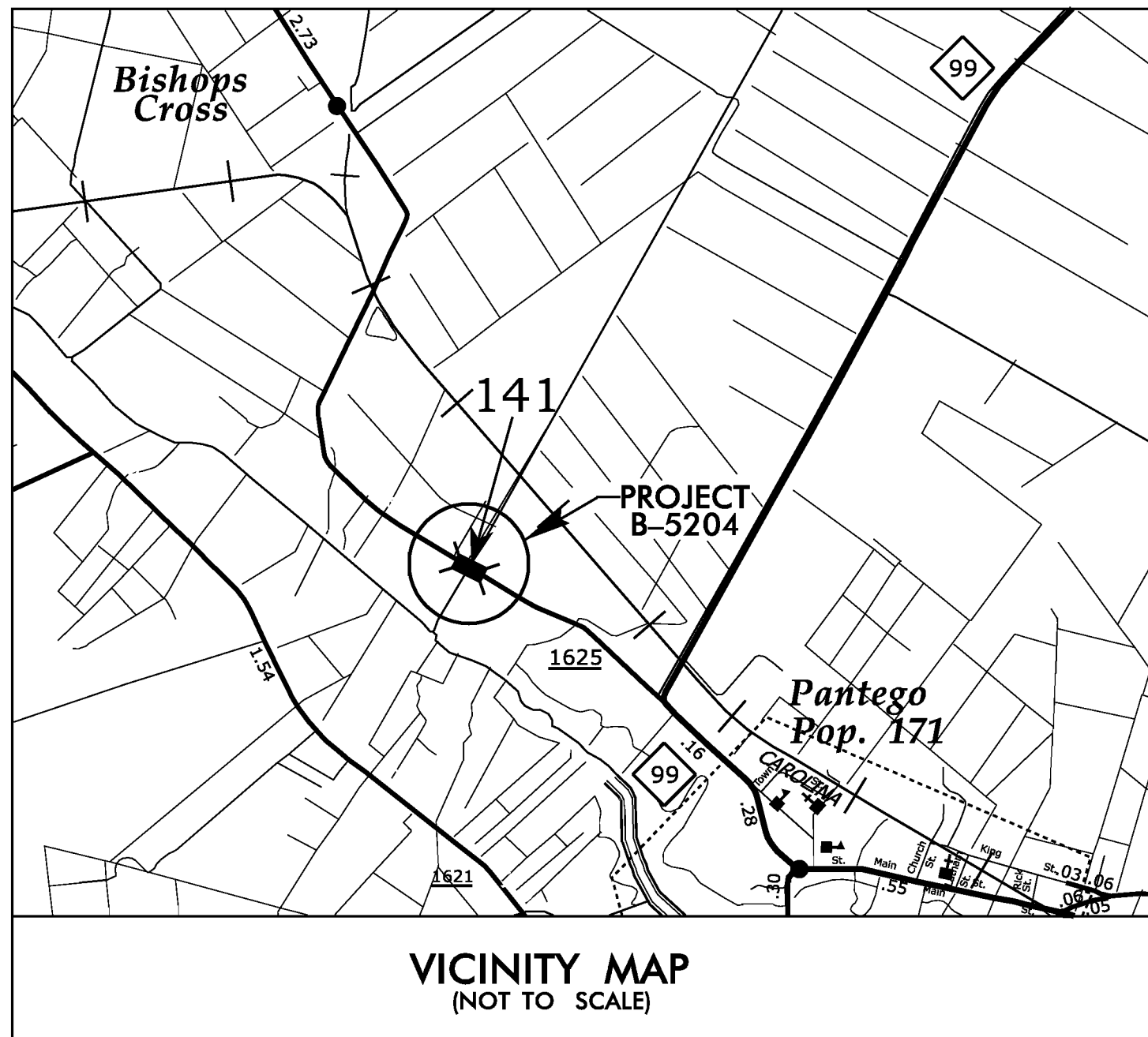


REVISIONS

8/17/09
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09/08/99

See Sheet 1-A For Index of Sheets



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

**LOCATION: SR 1625 (SWINDELL RD), BRIDGE NO. 141
OVER PANTEGO DISTRICT CANAL #14**

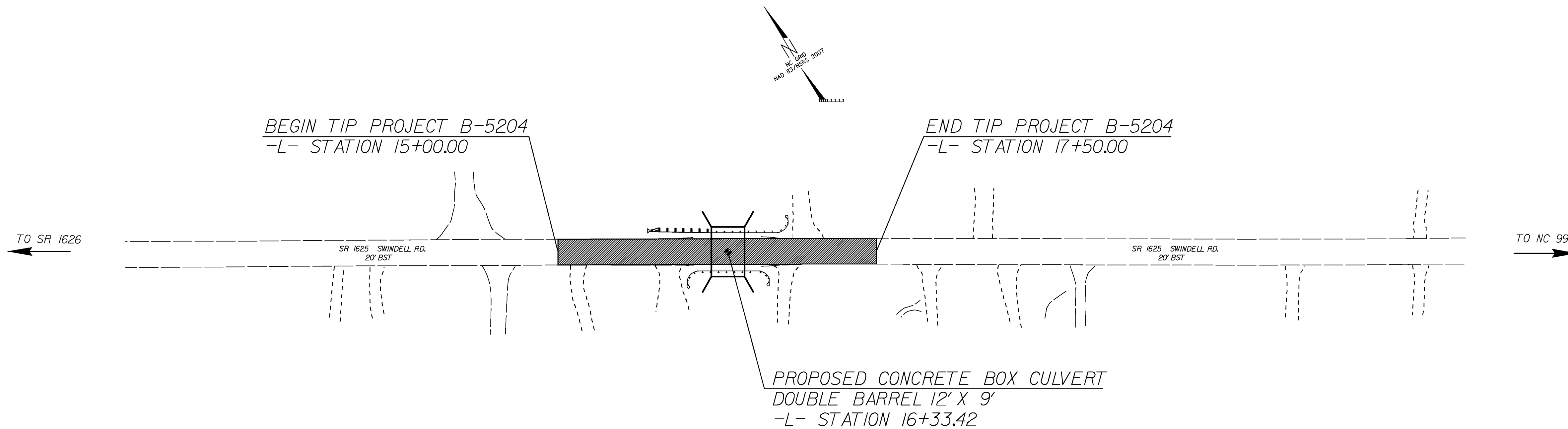
**TYPE OF WORK: WATER AND SEWER MAIN
RELOCATION**

**UTILITY OWNERS: BEAUFORT COUNTY WATER &
TOWN OF BELHAVEN SEWER**

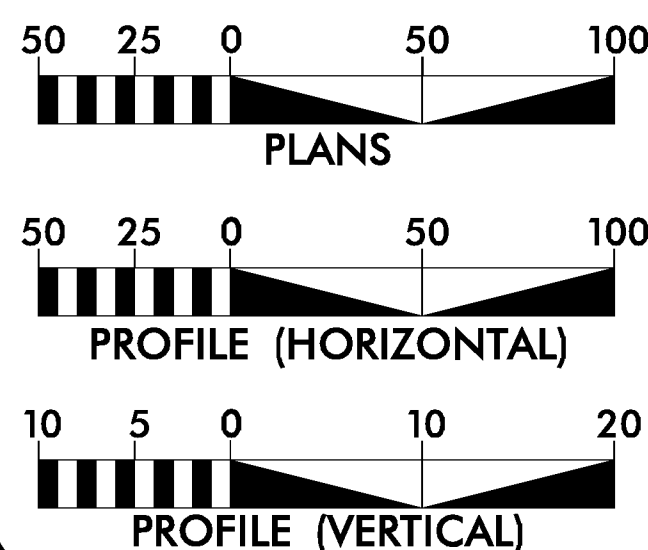
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STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
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45302.2.1	BRZ-1625(4)	RW	
45302.3.1	BRZ-1625(4)	CONST	

TIP PROJECT: B-5204

CONTRACT:



GRAPHIC SCALES



PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5204 = 0.047 MILE
TOTAL LENGTH OF TIP PROJECT B-5204 = 0.047 MILE

Prepared In the Office of:
DIVISION OF HIGHWAYS

105 Pictolus Hwy, Greenville NC, 27835

2012 STANDARD SPECIFICATIONS

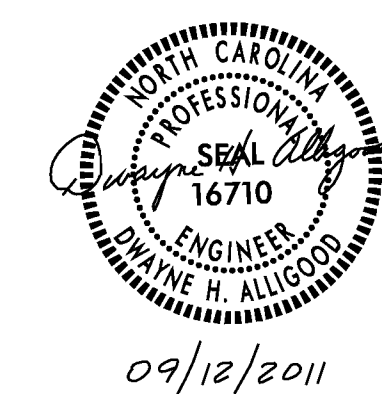
RIGHT OF WAY DATE:

DWAYNE H. ALLIGOOD
PROJECT ENGINEER

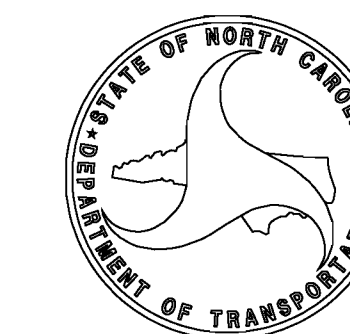
LETTING DATE:
APRIL 2012

LANG JONES
PROJECT DESIGN ENGINEER

UTILITY DESIGN ENGINEER

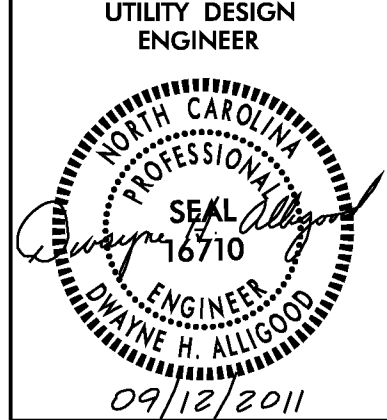


**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**



STATE HIGHWAY DESIGN ENGINEER

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



UTILITY CONSTRUCTION

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS SUMMARY OF QUANTITIES

<u>SANITARY FORCE MAIN</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM DESCRIPTION</u>
	40	LF	2" DI PIPE
	455	LF	4" HDPE PIPE DR9 (AWWA C906)
	2	EA	2" GATE VALVE
	2	EA	DI PIPE TO HDPE TRANSITION
	2	EA	CONCRETE THRUST COLLAR
	1	EA	AIR RELEASE VALVE
	0.50	ACRE	SEEDING AND MULCHING
	125	LF	TEMPORARY SILT FENCE
	500	LF	ABANDON 2" TO 3" UTILITY PIPE

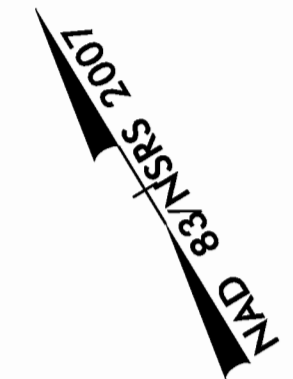
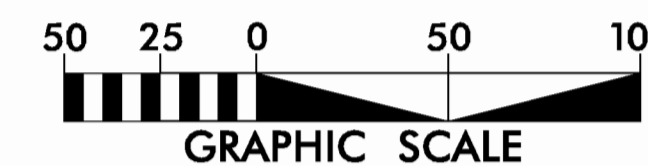
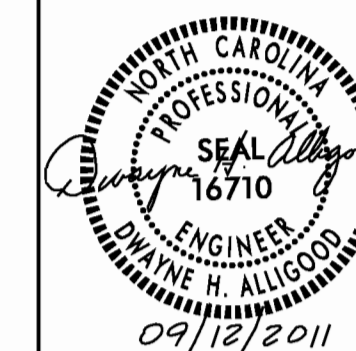
<u>WATER MAIN</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM DESCRIPTION</u>
	40	LF	6" DI PIPE
	320	LF	8" HDPE PIPE DR9 (AWWA C906)
	2	EA	6" GATE VALVE
	2	EA	DI PIPE TO HDPE TRANSITION
	2	EA	CONCRETE THRUST COLLAR
	1	EA	RELOCATE WATER METER
	2	EA	RECONNECT WATER METER
	0.50	ACRE	SEEDING AND MULCHING
	125	LF	TEMPORARY SILT FENCE
	363	LF	ABANDON 6" UTILITY PIPE

REVISIONS

8/17/09

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UTILITY CONSTRUCTION



NOTES:

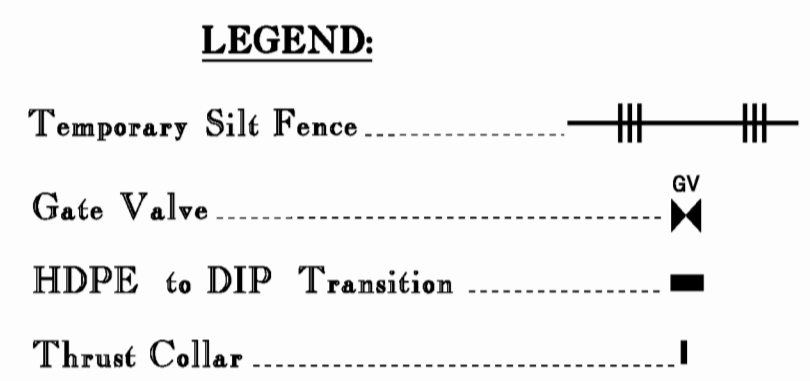
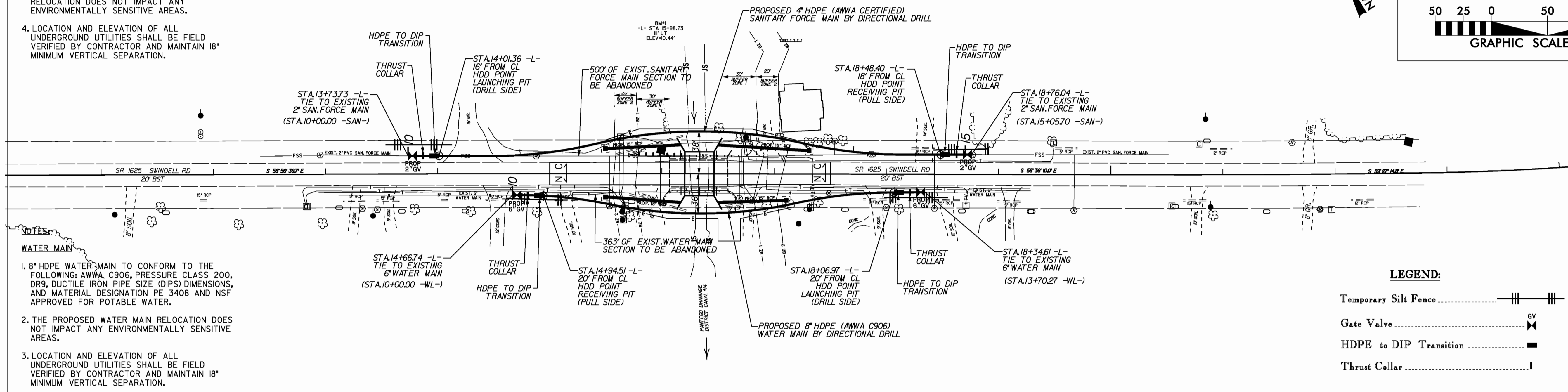
SEWER FORCE MAIN

- AIR RELEASE VALVES SHALL BE PROVIDED IN ACCORDANCE WITH ISA NCAC 2T .0305(H)(5).
- RECONNECT ALL SANITARY SEWER SERVICE LINES AS NECESSARY.
- THE PROPOSED SEWER FORCE MAIN RELOCATION DOES NOT IMPACT ANY ENVIRONMENTALLY SENSITIVE AREAS.
- LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY CONTRACTOR AND MAINTAIN 18" MINIMUM VERTICAL SEPARATION.

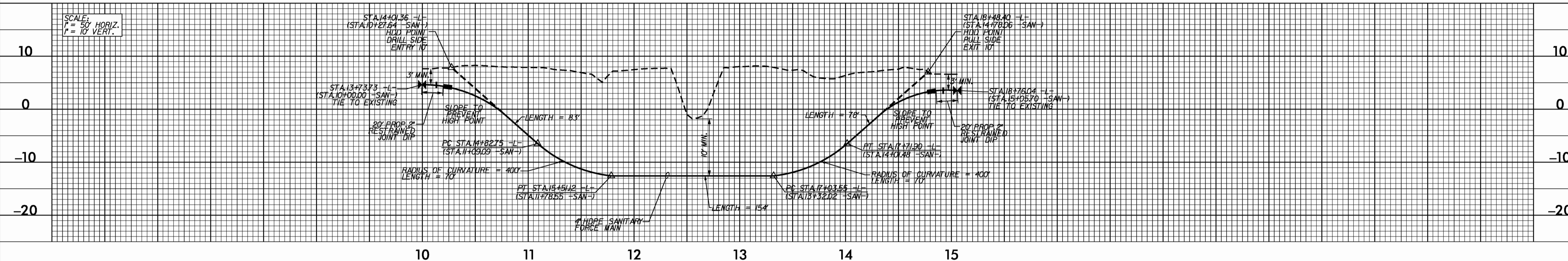
NOTES:

WATER MAIN

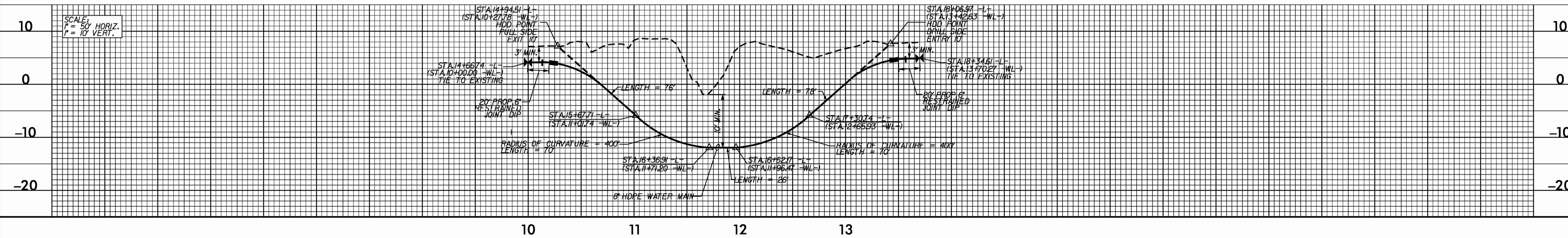
- 8" HDPE WATER MAIN TO CONFORM TO THE FOLLOWING: AWWA C906, PRESSURE CLASS 200, DR9, DUCTILE IRON PIPE SIZE (DIPS) DIMENSIONS, AND MATERIAL DESIGNATION PE 3408 AND NSF APPROVED FOR POTABLE WATER.
- THE PROPOSED WATER MAIN RELOCATION DOES NOT IMPACT ANY ENVIRONMENTALLY SENSITIVE AREAS.
- LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY CONTRACTOR AND MAINTAIN 18" MINIMUM VERTICAL SEPARATION.



PROFILE ALONG PROPOSED SANITARY FORCE MAIN -SAN-



PROFILE ALONG PROPOSED WATER LINE -WL-

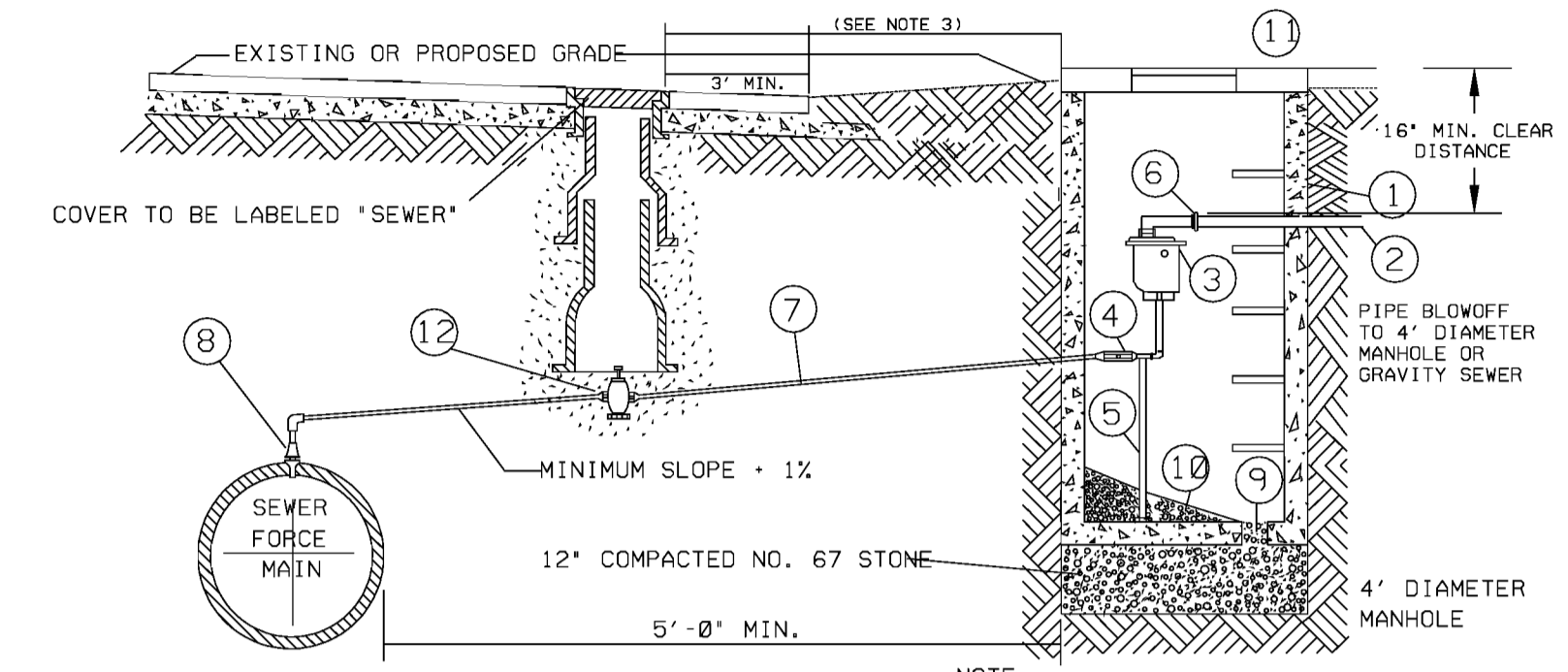


REVISIONS

8/17/09

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UTILITY CONSTRUCTION DETAIL SHEET

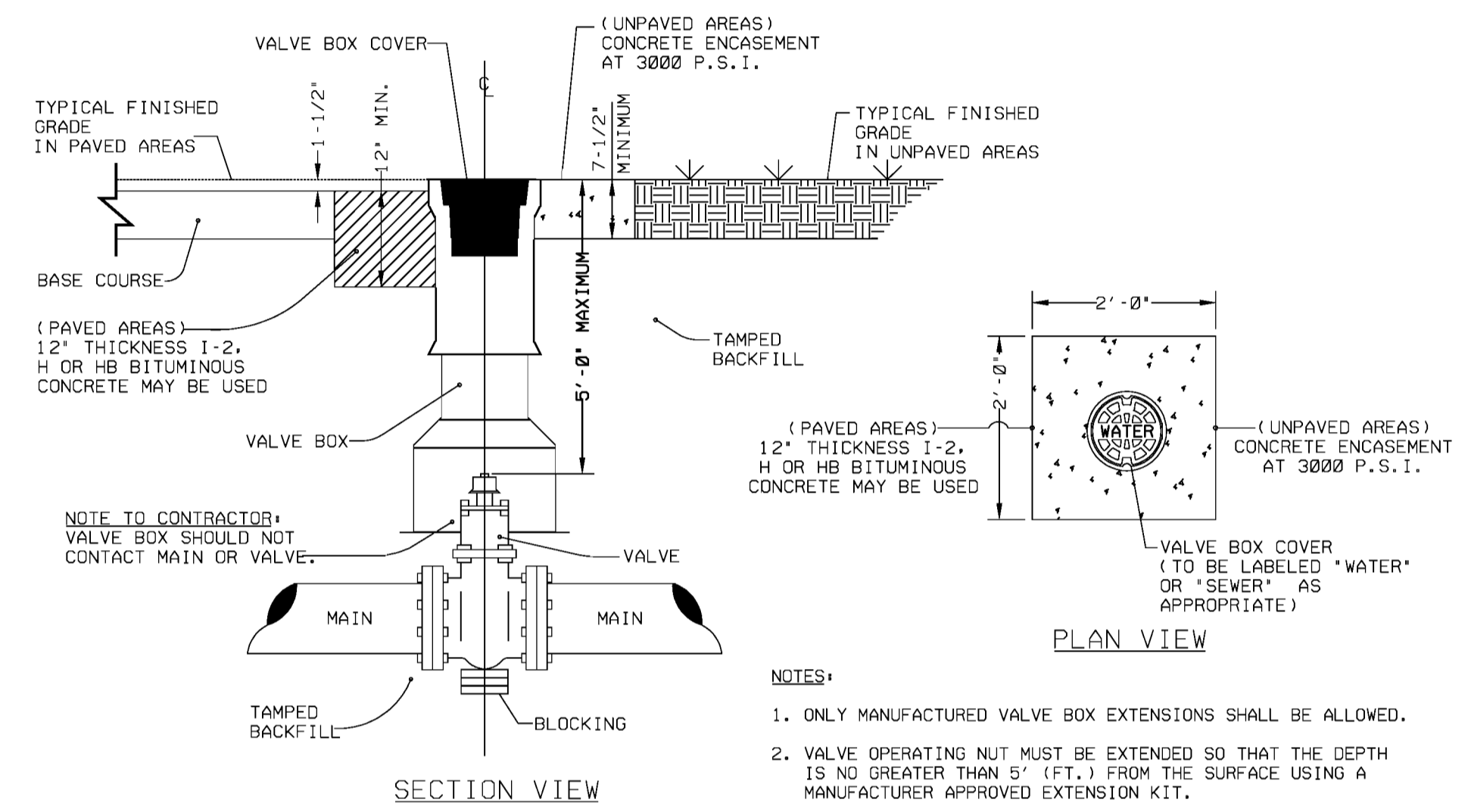


BILL OF MATERIALS

1	PRECAST MANHOLE W/ FLAT TOP
2	BLOW OFF PIPE SCD 80 PVC
3	2" AIR RELEASE VALVE
4	2" SS BALL VALVE
5	PIPE STAND SUPPORT SS
6	2" UNION SCD 80 PVC
7	2" TYPE 'K', SOFT COPPER WITH FLARED ELBOW
8	CORPORATION COCK
9	6" DIAMETER DRAIN
10	GROUT, 1/8" TO 1" - 0" MIN. SLOPE TO DRAIN
11	36" X 30" HALLIDAY HATCH, ALUM.
12	2" GATE VALVE W/ BOX

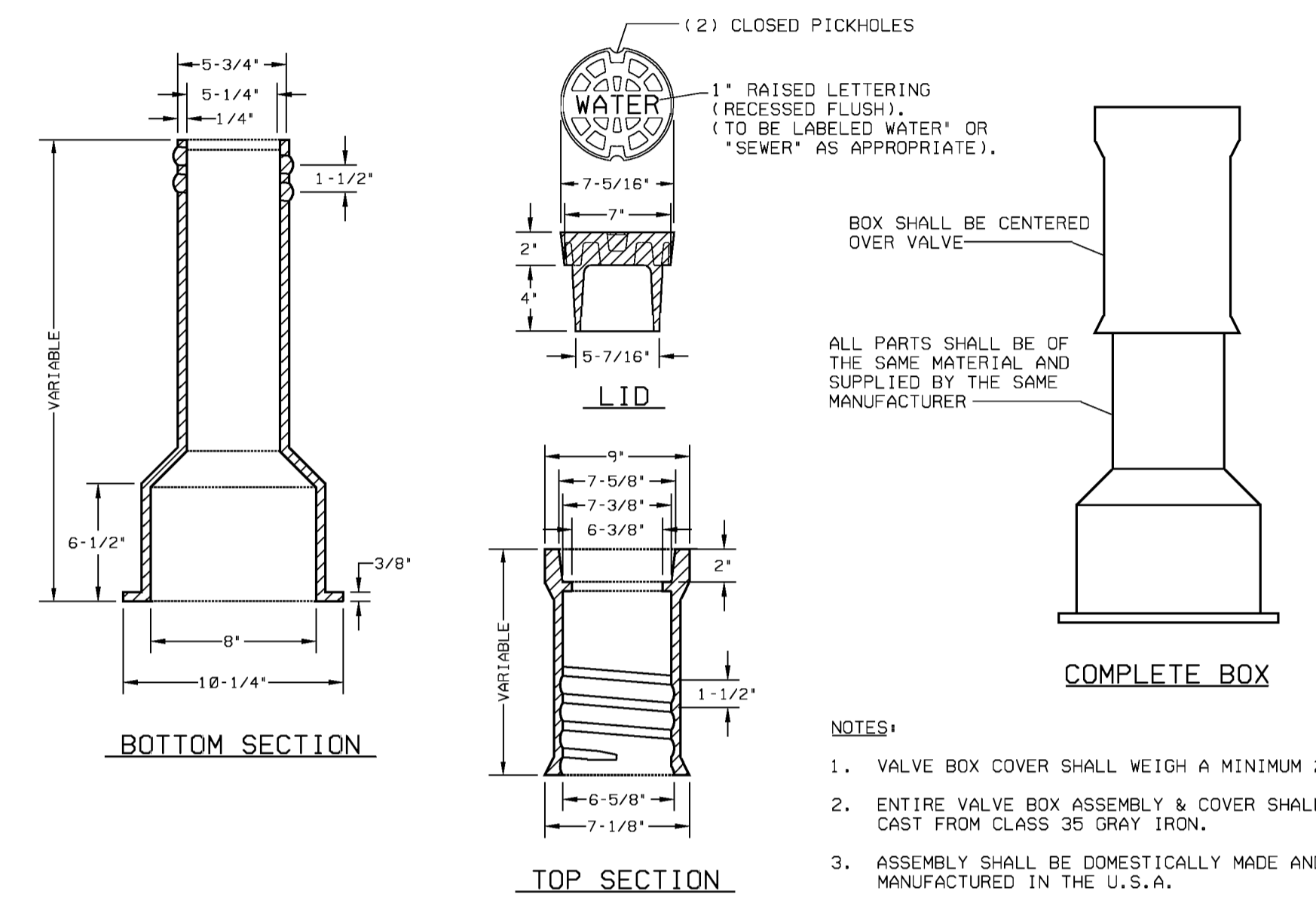
- NOTE:**
- AIR RELEASE/VACUUM VALVE TO BE A.R.I. FLOW CONTROL MODEL SAAR SHORT VERSION D-025
 - THE AIR RELEASE MANHOLE SHALL BE INSTALLED IN THE SHOULDER OR AS DIRECTED BY THE ENGINEER.
 - FOR MAINS LOCATED OUTSIDE OF STREET RIGHT-OF-WAYS THE MAXIMUM DISTANCE BETWEEN THE MANHOLE AND THE VALVE BOX SHOULD BE THREE (3) FEET.
 - MAIN SHALL BE DEEP ENOUGH TO ACCOMMODATE INSTALLATION AS SHOWN
 - ALL ITEMS LISTED IN THE BILL OF MATERIALS WILL BE PAID FOR AT THE CONTRACT PRICE FOR 'PER EACH AIR RELEASE VALVE'.

TYPICAL SEWER FORCE MAIN AIR RELEASE VALVE
 NTS



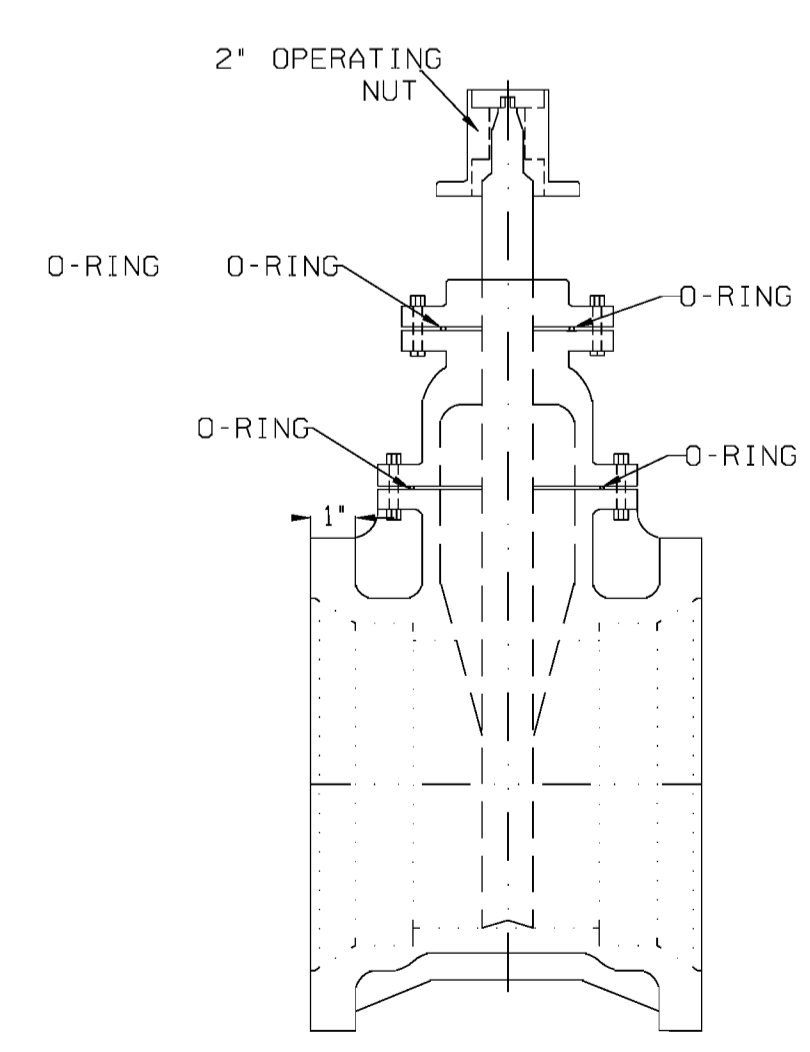
- NOTES:**
- ONLY MANUFACTURED VALVE BOX EXTENSIONS SHALL BE ALLOWED.
 - VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 5' (FT.) FROM THE SURFACE USING A MANUFACTURER APPROVED EXTENSION KIT.
 - PRECAST CONCRETE ENCASUREMENT IS ALLOWED OUTSIDE OF PAVED AREAS.

TYPICAL VALVE BOX
 NTS

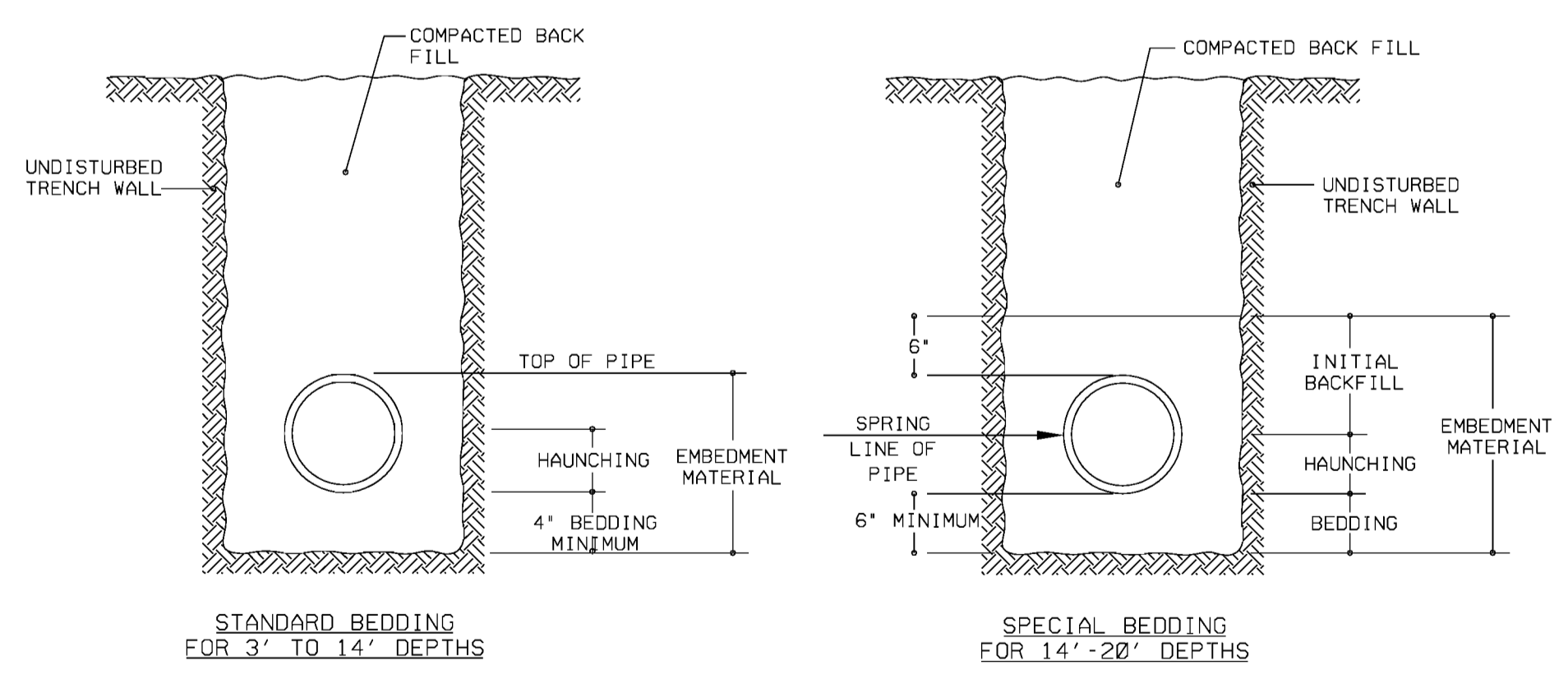


- NOTES:**
- VALVE BOX COVER SHALL WEIGH A MINIMUM 26 LBS.
 - ENTIRE VALVE BOX ASSEMBLY & COVER SHALL BE CAST FROM CLASS 35 GRAY IRON.
 - ASSEMBLY SHALL BE DOMESTICALLY MADE AND MANUFACTURED IN THE U.S.A.

TYPICAL VALVE BOX
 NTS

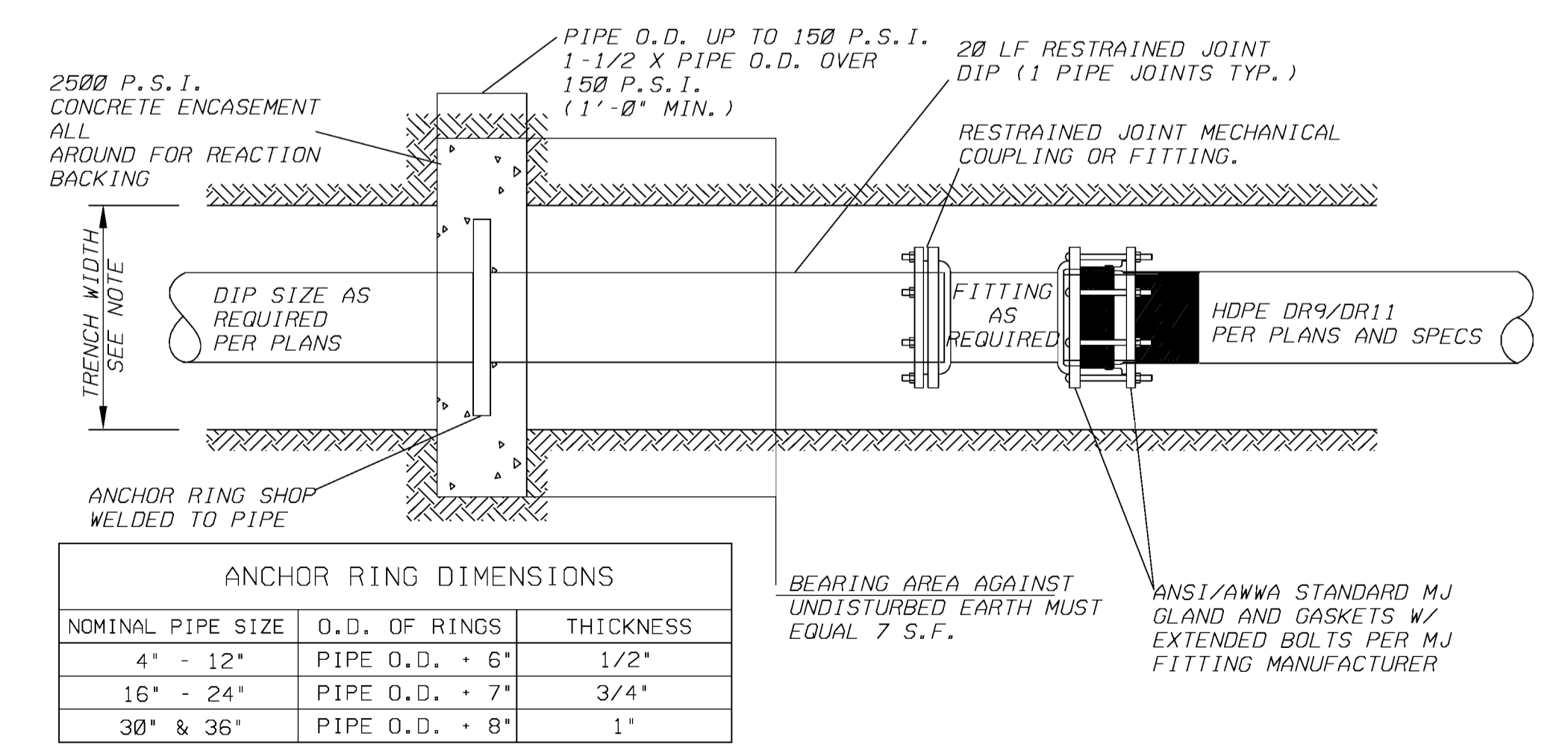


TYPICAL RESILIENT MECHANICAL JOINT GATE VALVE DETAIL
 NTS



- NOTES:**
- EMBEDMENT MATERIAL MUST BE CLASS I (NO. 67 OR NO. 78M WASHED STONE IS TYPICALLY USED).
 - EMBEDMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY FOR CLASS I MATERIAL.
 - STANDARD BEDDING SHALL BE UTILIZED FOR ALL CASES WHERE TRENCH BOTTOMS ARE UNSTABLE DUE TO SOIL TYPE, OR MOISTURE CONDITIONS.

TYPICAL BEDDING FOR FLEXIBLE & SEMI-RIGID PIPE
 NTS



ANCHOR RING DIMENSIONS

NOMINAL PIPE SIZE	O.D. OF RINGS	THICKNESS
4" - 12"	PIPE O.D. + 6"	1/2"
16" - 24"	PIPE O.D. + 7"	3/4"
30" & 36"	PIPE O.D. + 8"	1"

BEARING AREA AGAINST UNDISTURBED EARTH MUST EQUAL 7 S.F.
 ANSI/AWWA STANDARD MJ GLAND AND GASKETS W/ EXTENDED BOLTS PER MJ FITTING MANUFACTURER

TYPICAL DIP TO HDPE TRANSITION DETAIL WITH THRUST COLLAR
 NTS

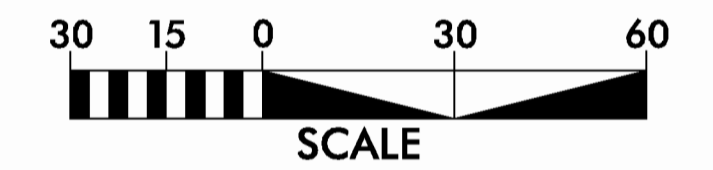
REVISIONS

8/17/99

05-APR-2011 13:44 AUCORT\B5204\B5204_ddc2.psh_lc4.dgn
 3/28/2011 10:58:58 AM

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



NOTE: PROPOSED UTILITY WORK SHOWN ARE
APPROXIMATE AND PER TRICOUNTY AND CENTURYLINK.

UTILITY OWNERS ON PROJECT

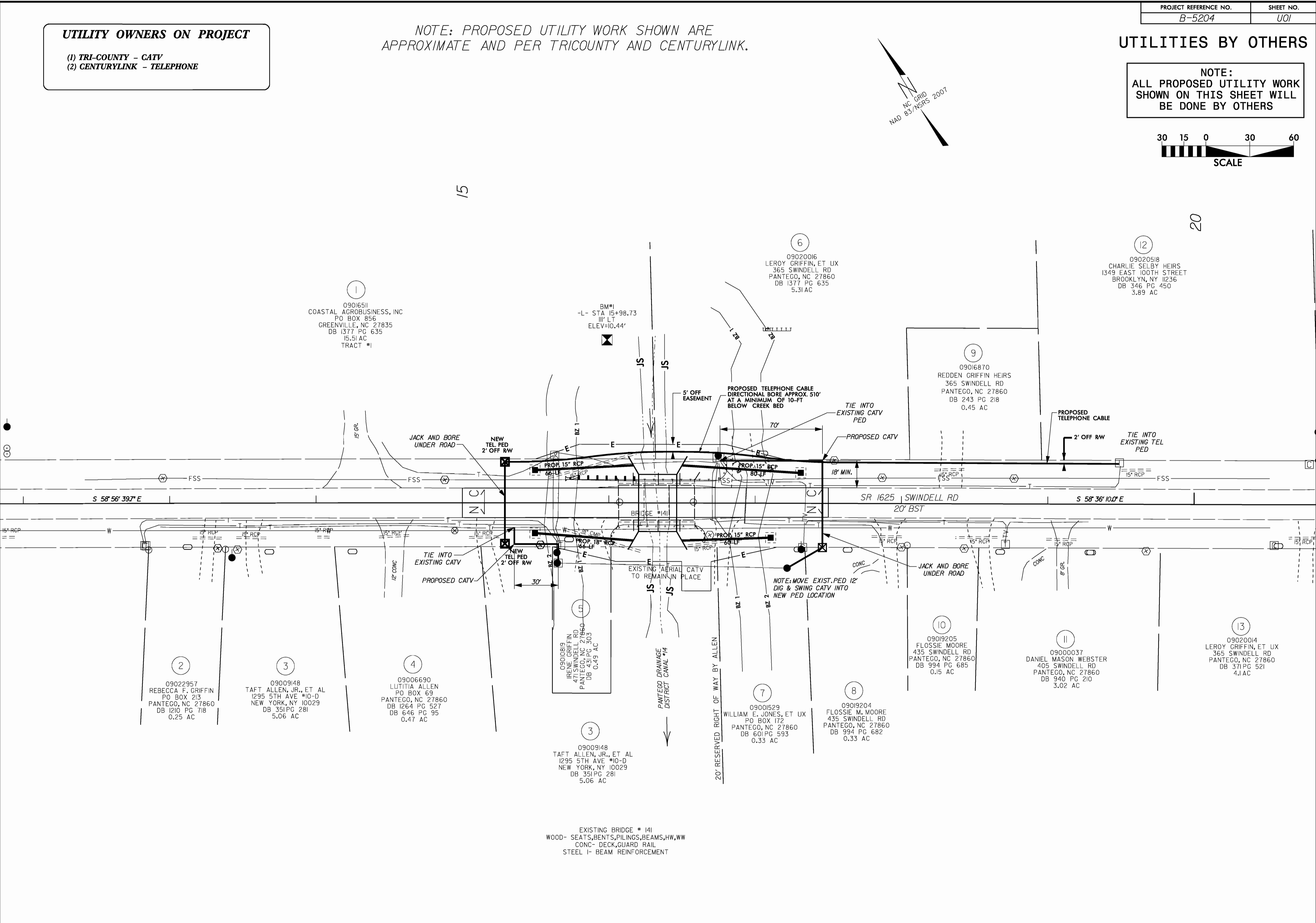
- (1) TRI-COUNTY - CATV
- (2) CENTURYLINK - TELEPHONE



REVISIONS

8/17/99

05-APR-2016 13:44 J:\PROJECTS\B5204\B5204.dwg 2-pst-1.dwg



EXISTING BRIDGE # 141
WOOD- SEATS,BENTS,PILINGS,BEAMS,HW,WW
CONC- DECK, GUARD RAIL
STEEL I- BEAM REINFORCEMENT

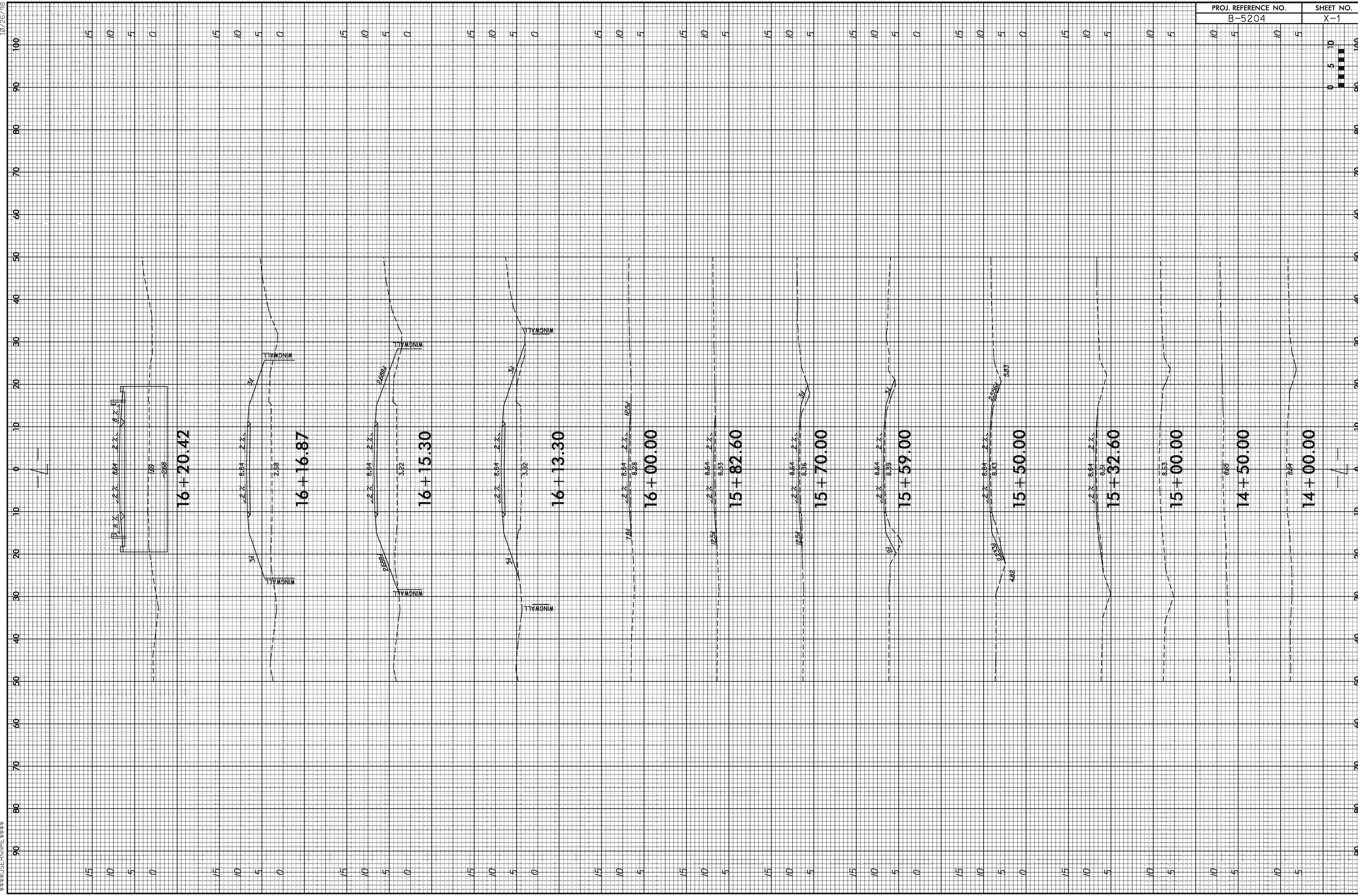
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

CROSS-SECTION SUMMARY
IN CUBIC YARDS

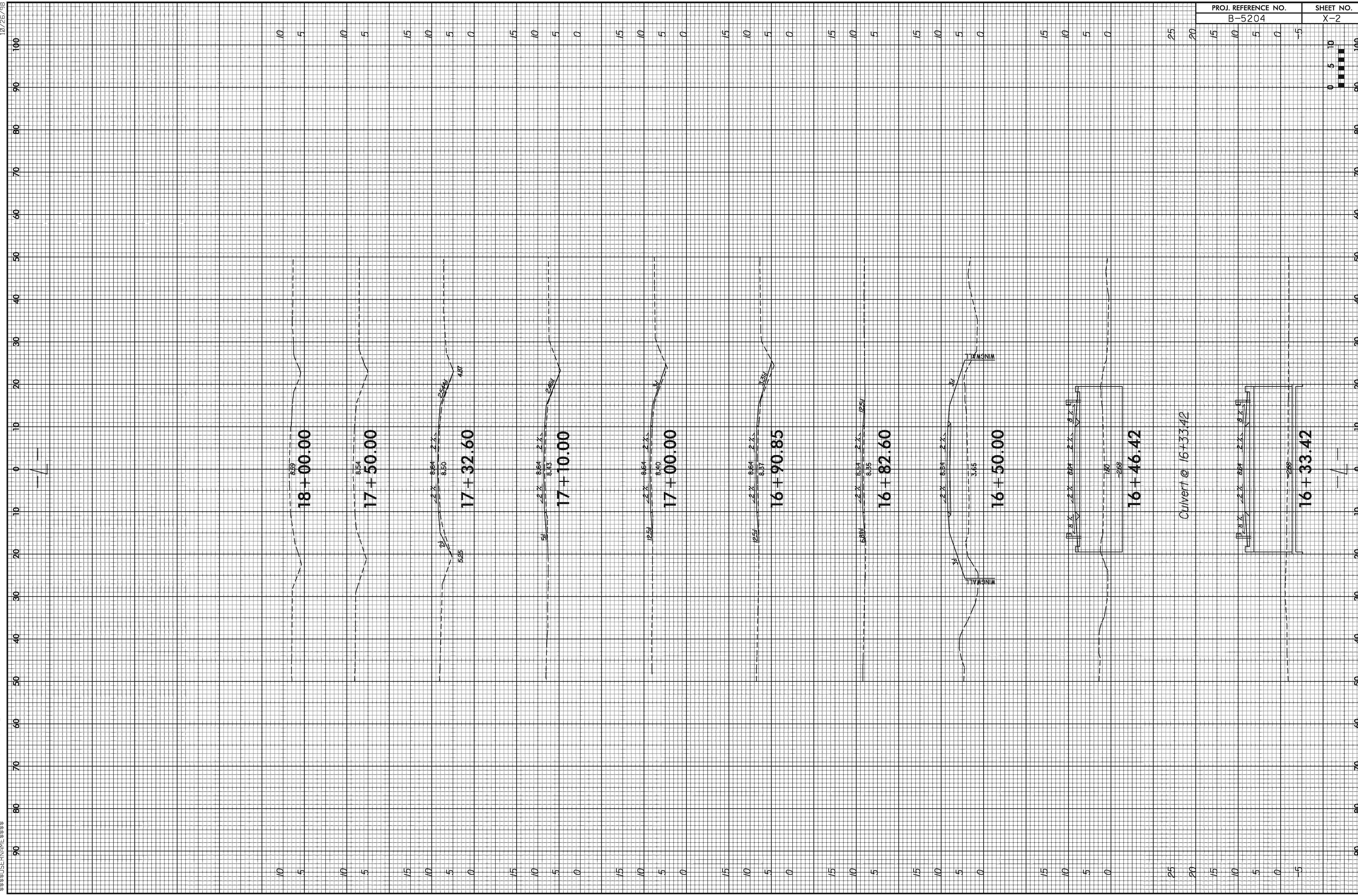
NOTE: Approximate quantities only. Unclassified excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, Removal of Existing Pavement and Breaking of Existing Pavement will be paid for at the contract Lump Sum price for "Grading".

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
15+32.60	0	0	0
15+50.00	0	0	5
15+59.00	0	0	5
15+70.00	0	0	6
15+82.60	0	0	2
16+00.00	0	0	1
16+13.30	0	0	38
16+15.30	0	0	13
16+16.87	0	0	12
16+20.42	0	0	30
	BOX CULVERT		
16+46.42	0	0	0
16+50.00	0	0	27
16+82.60	0	0	111
16+90.85	0	0	2
17+00.00	0	0	3
17+10.00	0	0	2
17+32.60	0	0	6

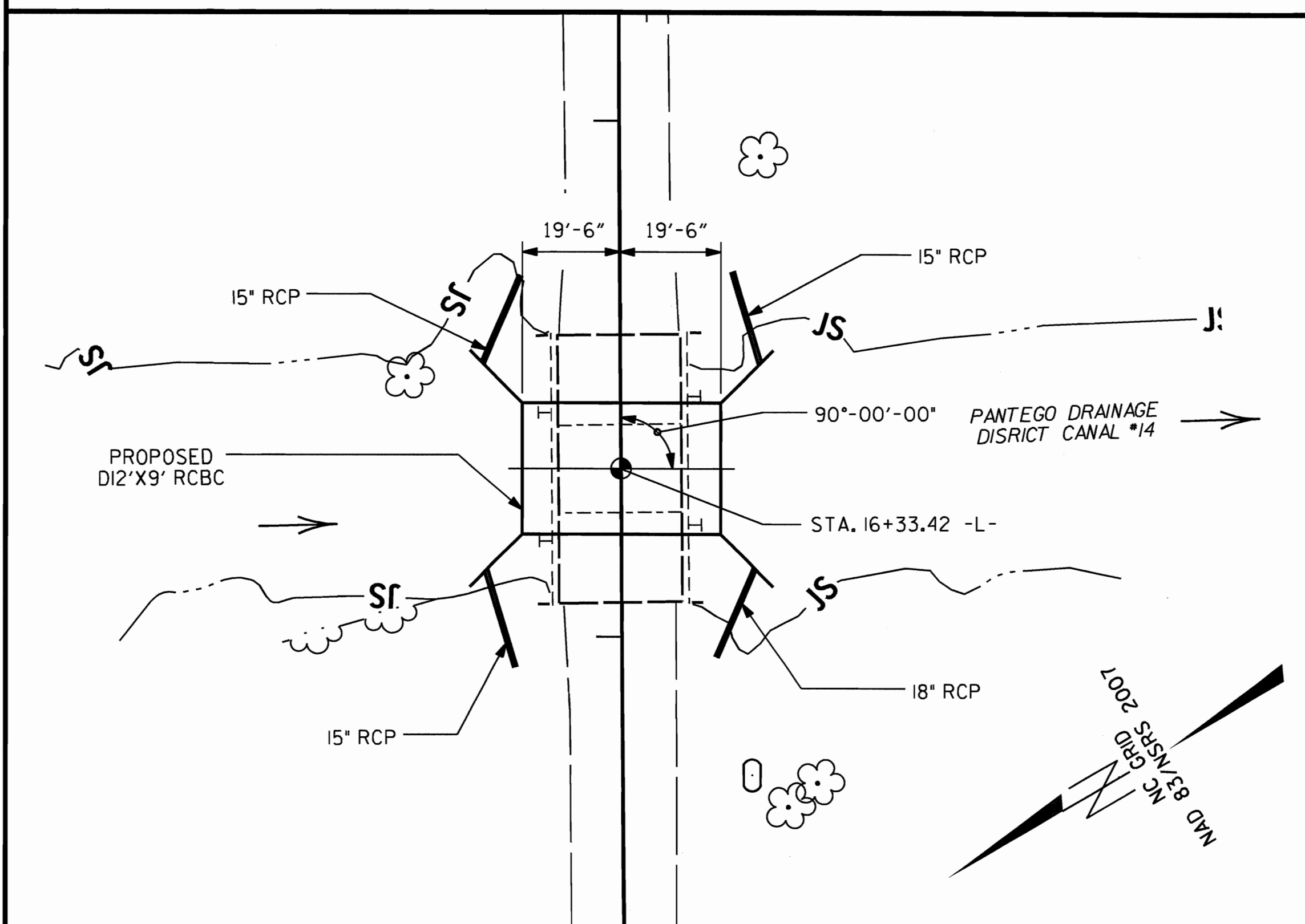


PROJ. REFERENCE NO.	SHEET NO.
B-5204	X-1



PROJ. REFERENCE NO.	SHEET NO.
B-5204	X-2

BM #1: R/R SPIKE IN 16" PINE 90' LT OF BL STA. 11+45.00 N 680789 E 2691511 ELEV. 10.44



GRADE POINT ELEV. @ 16+33 -L- = 8.64
BED ELEV. @ STA. 16+33.42 -L- = -2.68
ROADWAY SLOPES = 2:1

HYDRAULIC DATA

DESIGN DISCHARGE = 307 C.F.S.
FREQUENCY OF DESIGN FLOOD = 25 YR.
DESIGN HIGH WATER ELEVATION = 2.2
DRAINAGE AREA = 1.45 SQ. MI.
BASIC DISCHARGE (Q100) = 474 C.F.S.
BASIC HIGH WATER ELEVATION = 3.0

OVERTOPPING FLOOD DATA

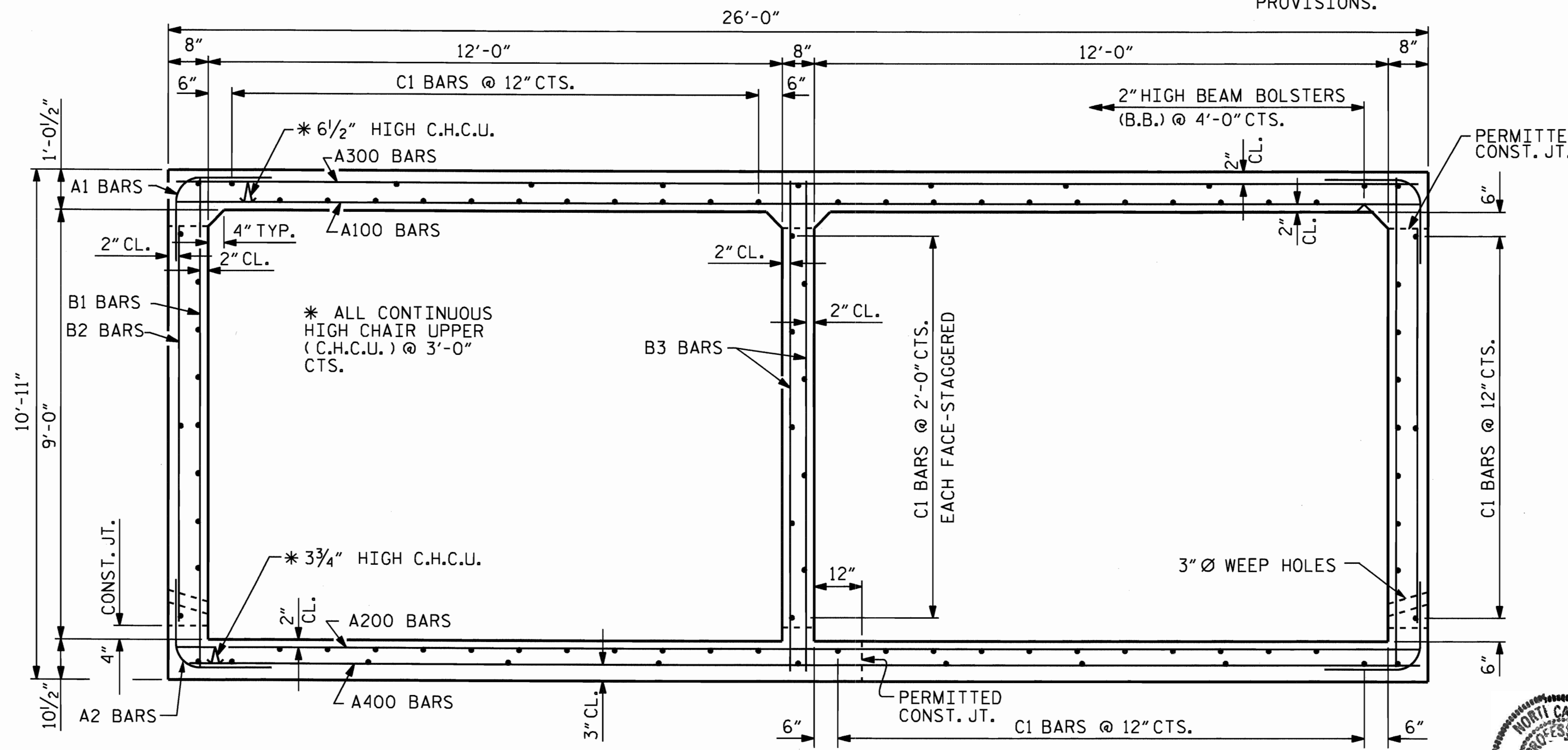
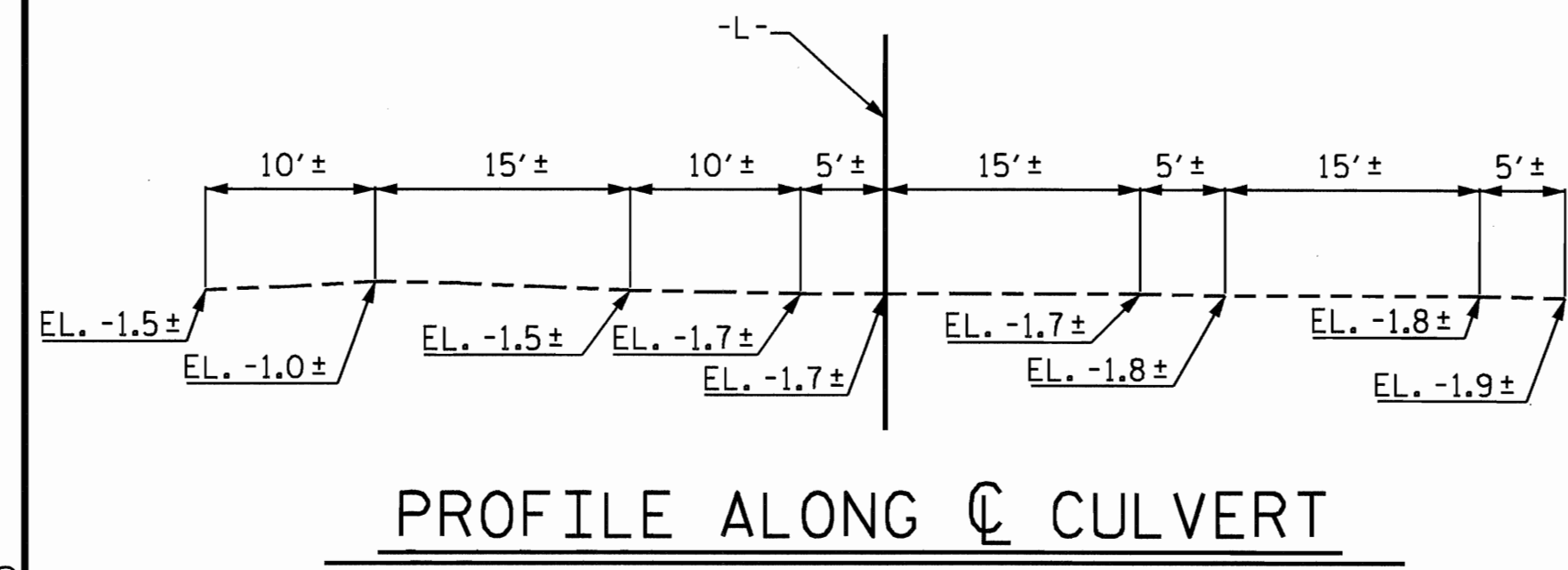
OVERTOPPING DISCHARGE = >682 C.F.S.
FREQUENCY OF OVERTOPPING FLOOD = >500 YR.
OVERTOPPING FLOOD ELEVATION = >4.0

TOTAL STRUCTURE QUANTITIES

CLASS A CONCRETE	
BARREL @ 2.512 CY/FT	98.0 C.Y.
WING ETC.	30.3 C.Y.
TOTAL	128.3 C.Y.
REINFORCING STEEL	
BARREL	19610 LBS.
WINGS ETC.	2070 LBS.
TOTAL	21680 LBS.
CULVERT EXCAVATION	LUMP SUM
FOUNDATION CONDITIONING MATERIAL	110 TONS
REMOVAL OF EXISTING STRUCTURE	LUMP SUM

NOTES

- ASSUMED LIVE LOAD ----- HS20-44 OR ALTERNATE LOADING.
- DESIGN FILL----- 1.58'
- FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
- FOR CURING CONCRETE, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- 3" Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:
 1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF ALL VERTICAL WALLS.
 2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.
- THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.
- THIS BARREL STANDARD TO BE USED ONLY ON CULVERT ON 90° SKEW AND TO BE USED WITH STANDARD WING SHEET WITH THE SAME SKEW AND VERTICAL CLEARANCE.
- DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.
- STEEL IN THE BOTTOM SLAB MAY BE SPLICED AT THE PERMITTED CONSTRUCTION JOINT AT THE CONTRACTOR'S OPTION. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.
- AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.
- THE EXISTING STRUCTURE CONSISTS OF 6 SPANS @ 9' WITH A CLEAR ROADWAY WIDTH OF 24'. THE SUPERSTRUCTURE HAS A REINFORCED CONCRETE DECK ON TIMBER JOISTS. THE SUBSTRUCTURE CONSISTS OF TIMBER CAPS, TIMBER PILES AND STEEL CRUTCH BENTS. THE EXISTING STRUCTURE SHALL BE REMOVED.
- AT THE CONTRACTOR'S OPTION HE MAY SUBMIT, TO THE ENGINEER FOR APPROVAL, DESIGN AND DETAIL DRAWINGS FOR A PRECAST REINFORCED CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE PLANS. THE DESIGN SHALL PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE DESIGN. FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT, SEE SPECIAL PROVISIONS.



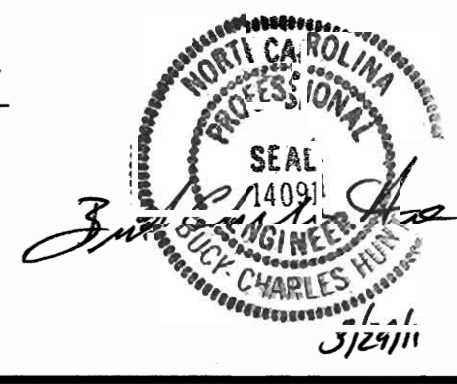
RIGHT ANGLE SECTION OF BARREL

THERE ARE 95 "C" BARS IN SECTION OF BARREL.

PROJECT NO. B-5204
BEAUFORT COUNTY
STATION: 16+33.42 -L-

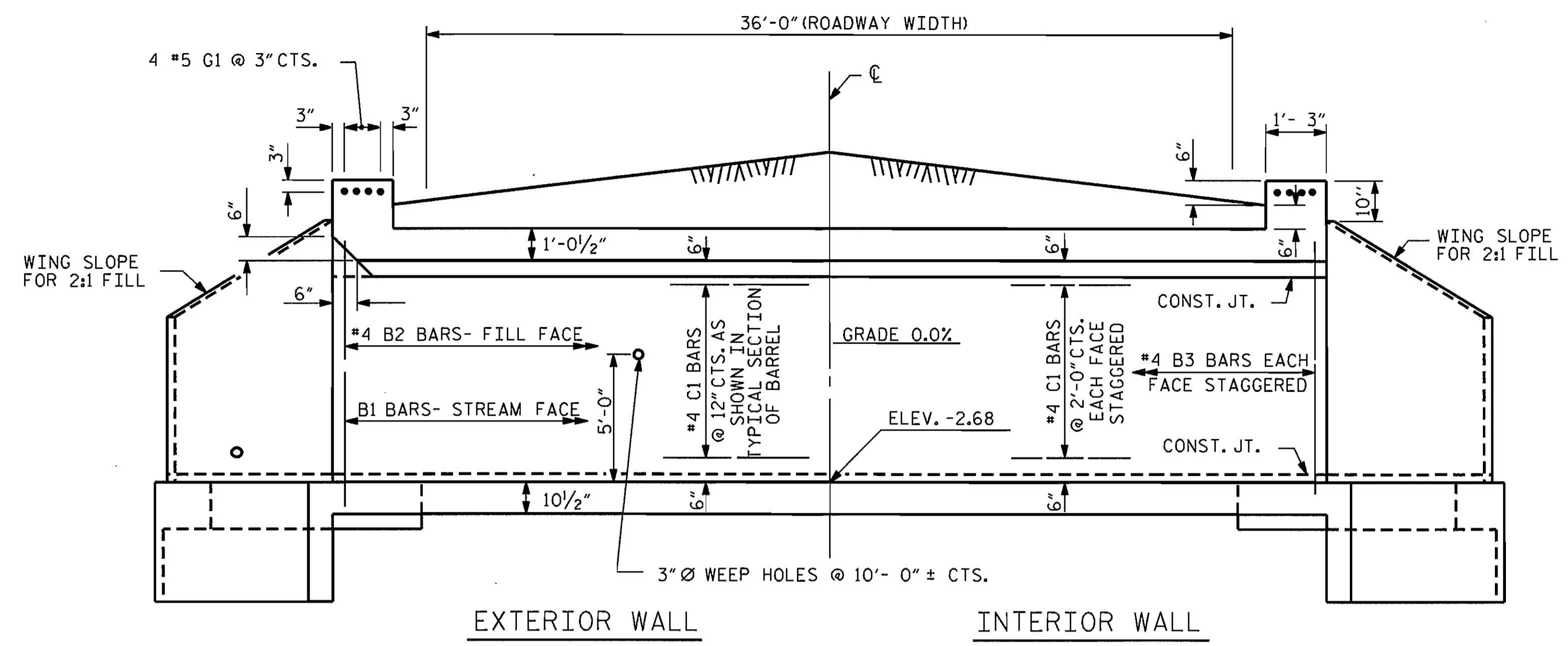
REPLACES BRIDGE NO. 141

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
BARREL STANDARD
DOUBLE 12 FT. X 9 FT.
CONCRETE BOX CULVERT
90° SKEW

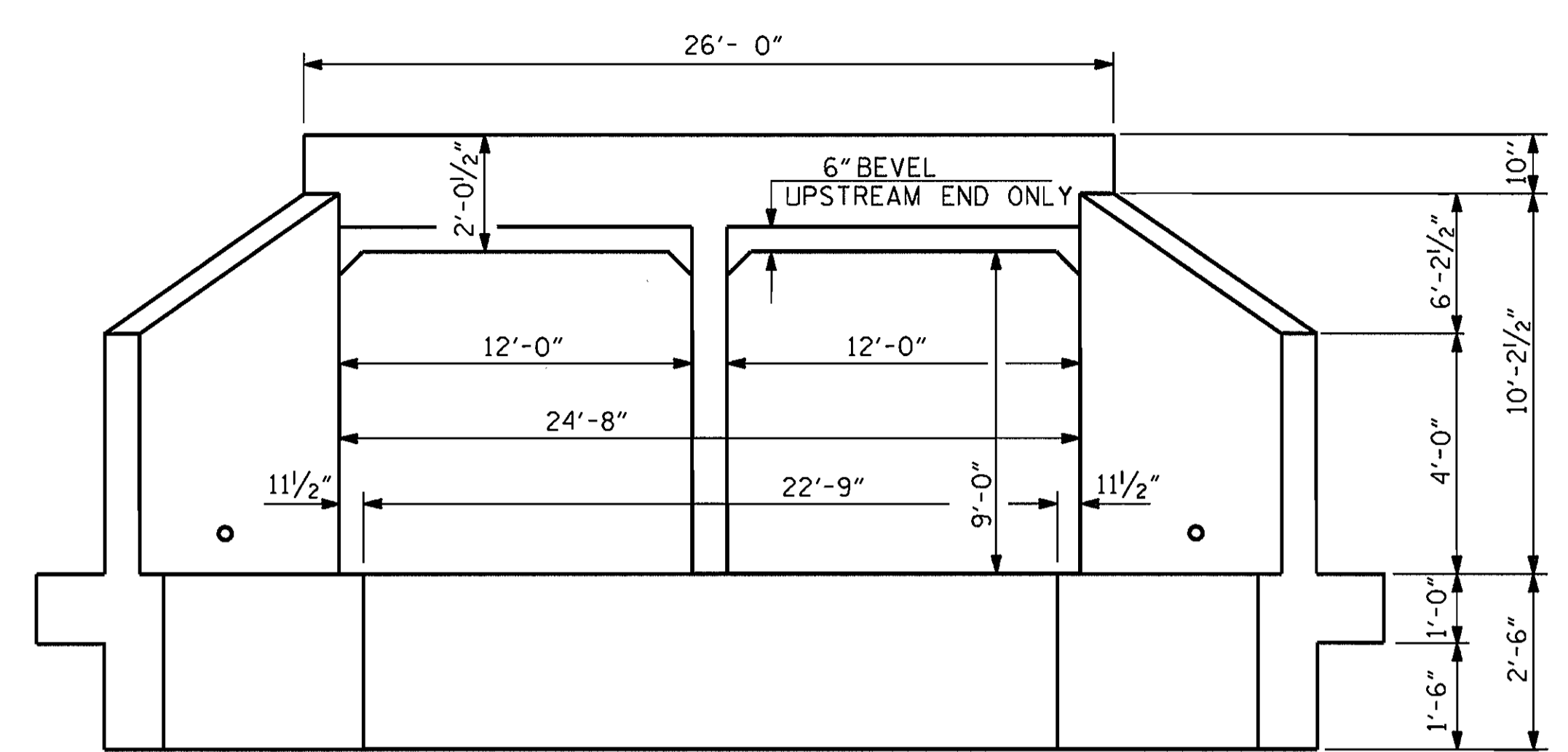


ASSEMBLED BY : M. D. IVY	DATE : 3/22/11	SPECIAL
CHECKED BY : B. C. HUNT	DATE : 3/23/11	
DRAWN BY : R. W. WRIGHT	DATE : JULY, 1990	STANDARD
CHECKED BY : D. A. GLADDEN	DATE : JULY, 1990	

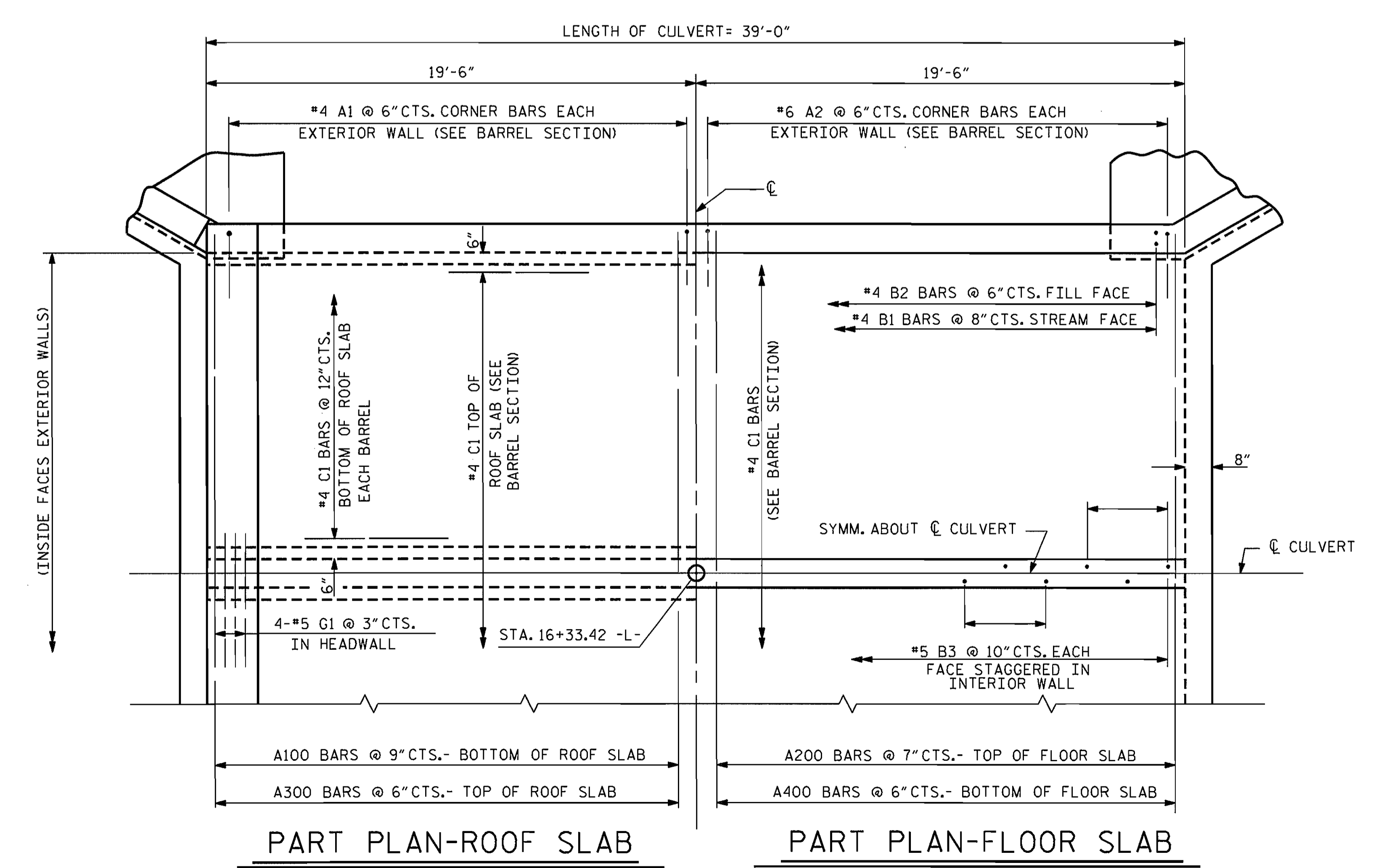
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-1
1			3			TOTAL SHEETS
2			4			4



CULVERT SECTION NORMAL TO ROADWAY



END ELEVATION

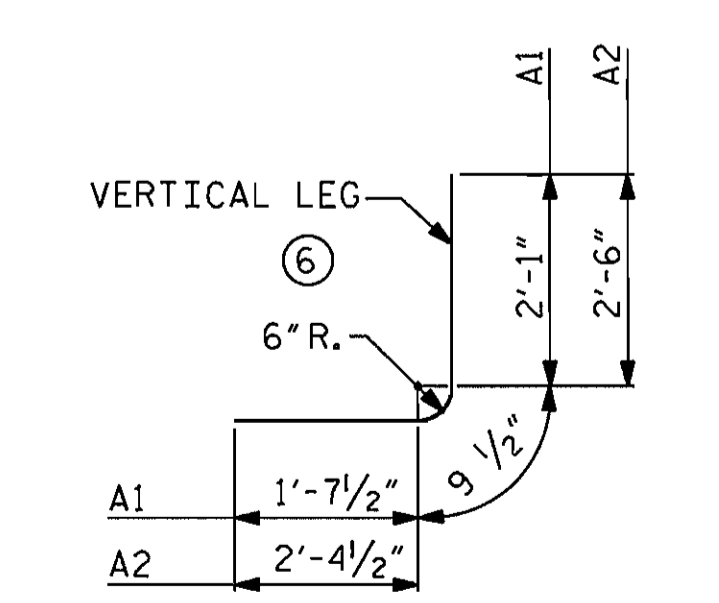


PART PLAN-ROOF SLAB

PART PLAN-FLOOR SLAB

BILL OF MATERIAL					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A100	52	#7	STR.	25'-7"	2719
A200	67	#5	STR.	25'-7"	1788
A300	78	#7	STR.	25'-7"	4079
A400	78	#7	STR.	25'-7"	4079
A1	156	#4	6	4'-6"	469
A2	156	#6	6	5'-8"	1328
B1	118	#4	STR.	10'-5"	821
B2	156	#4	STR.	8'-4"	868
B3	94	#4	STR.	10'-5"	654
C1	190	#4	STR.	20'-5"	2591
G1	8	#5	STR.	25'-8"	214
TOTAL REINFORCING STEEL					19610 LBS.

SPLICE CHART		
BAR	SIZE	LENGTH
A200	#5	1'-9"
A400	#7	3'-1"
B1	#4	1'-9"
B3	#4	1'-9"
C1	#4	1'-11"



BAR TYPE
 BAR DIMENSIONS ARE OUT TO OUT

PROJECT NO. B-5204
 BEAUFORT COUNTY
 STATION: 16+33.42 -L-

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
BARREL STANDARD
DOUBLE 12 FT. X 9 FT.
CONCRETE BOX CULVERT
90° SKEW



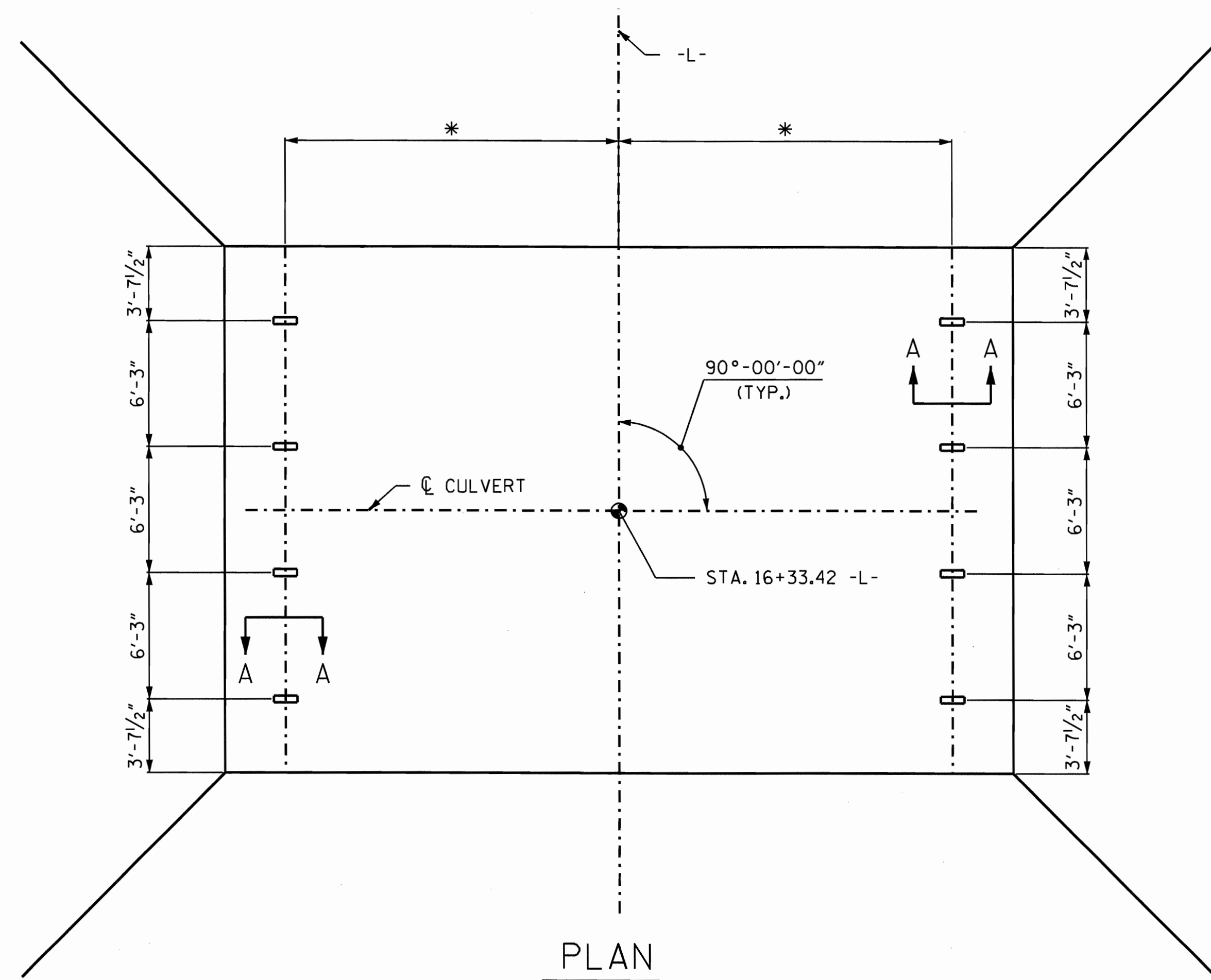
REVISED 11-19-99 BY M.M. CHECKED BY R.W.W.
 REDRAWN NOV. 1990 BY TSS. CHECKED BY ARB

ASSEMBLED BY: M. D. IVY	DATE: 3/22/11	SPECIAL
CHECKED BY: B. C. HUNT	DATE: 3/23/11	
DRAWN BY: RALPH D. UNDERWOOD	DATE: MAY 1971	STANDARD
CHECKED BY: JOEL A. JOHNSON	DATE: JULY 1971	

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-2
1			3			TOTAL SHEETS
2			4			4

* THIS DENOTES TO BE FURNISHED BY THE ENGINEER

NOTES



PLAN

SHOWING : GUARDRAIL ANCHOR ASSEMBLY SPACING.

THE GUARDRAIL ANCHOR ASSEMBLY FOR CULVERTS SHALL CONSIST OF THE FOLLOWING COMPONENTS :

- A. FERRULES SHALL BE MADE FROM STEEL MEETING THE REQUIREMENTS OF AASHTO M169, GRADE 12L14 AND SHALL HAVE A MINIMUM LENGTH OF THREADS OF 2 1/2".
- B. 4 - 1" Ø X 2 1/4" BOLTS WITH WASHERS, BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307. BOLTS AND WASHERS SHALL BE GALVANIZED. (AT THE CONTRACTOR'S OPTION, STAINLESS STEEL BOLTS AND WASHERS MAY BE USED AS AN ALTERNATE FOR THE 1" Ø X 2 1/4" GALVANIZED BOLTS AND WASHERS. THEY SHALL CONFORM TO OR EXCEED THE MECHANICAL REQUIREMENTS OF ASTM A307. THE USE OF THIS ALTERNATE SHALL BE APPROVED BY THE ENGINEER.)
- C. WIRE STRUTS SHOWN IN THE GUARDRAIL ANCHOR ASSEMBLY FOR CULVERTS DETAIL ARE MINIMUM ALLOWABLE SIZE AND SHALL HAVE A MINIMUM TENSILE STRENGTH OF 100,000 P.S.I. AS AN OPTION, A 7/16" Ø WIRE STRUT WITH A MINIMUM TENSILE STRENGTH OF 90,000 PSI IS ACCEPTABLE.

GUARDRAIL ANCHOR ASSEMBLY WITH BOLTS SHALL BE ASSEMBLED IN THE SHOP. BOLT THREADS MAY BE RECUT AS NECESSARY TO INSURE FIT.

THE COST OF THE GUARDRAIL ANCHOR ASSEMBLY FOR CULVERTS COMPLETE IN PLACE, SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR CLASS "A" CONCRETE.

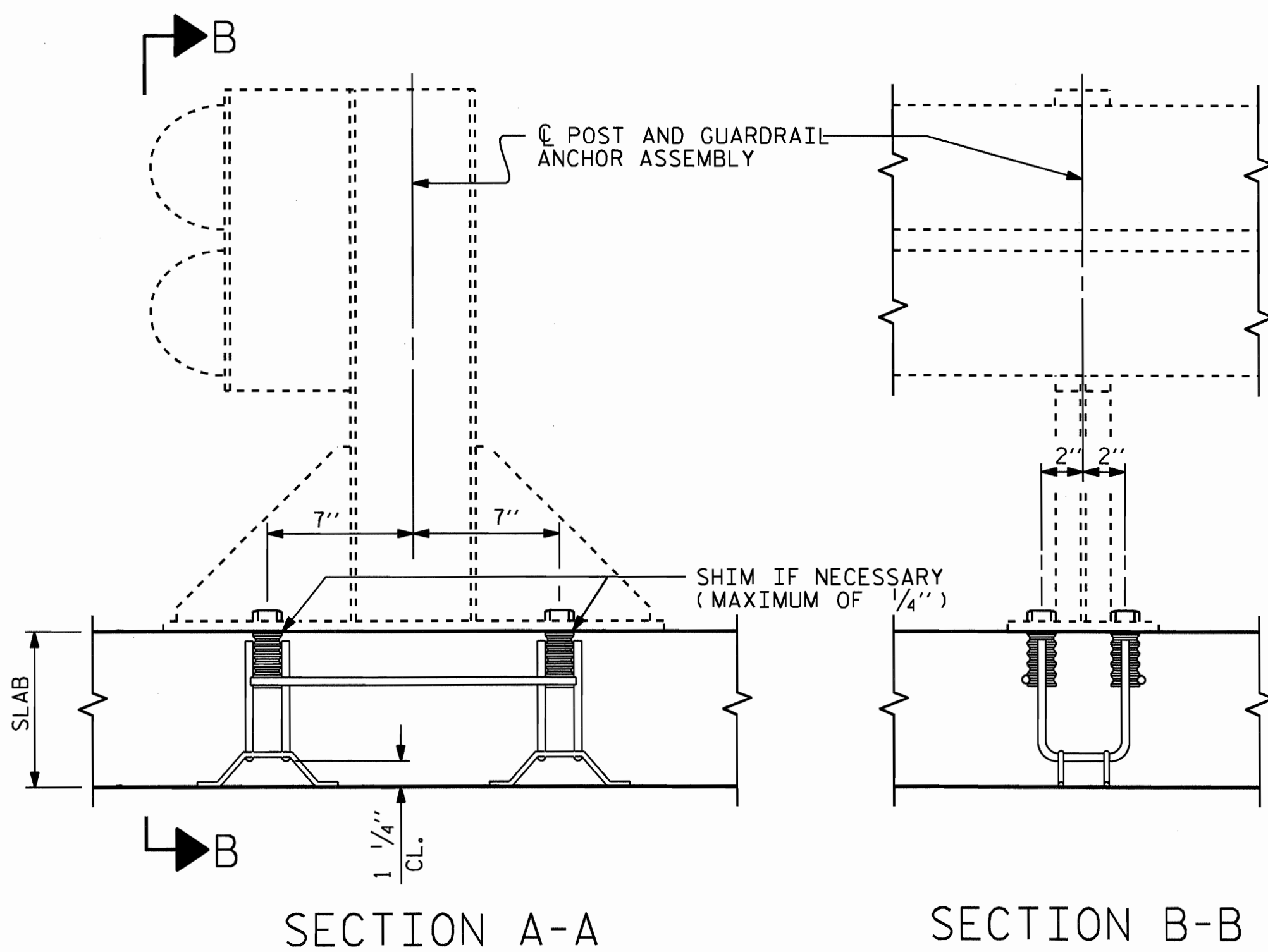
FERRULES TO BE PLUGGED DURING POURING OF SLAB AS RECOMMENDED BY THE MANUFACTURER.

AT THE CONTRACTOR'S OPTION, FERRULES WITH OPEN OR CLOSED ENDS MAY BE USED.

PAYMENT FOR GUARDRAIL, POSTS, AND POST BASE PLATES IS INCLUDED IN ROADWAY PAY ITEMS.

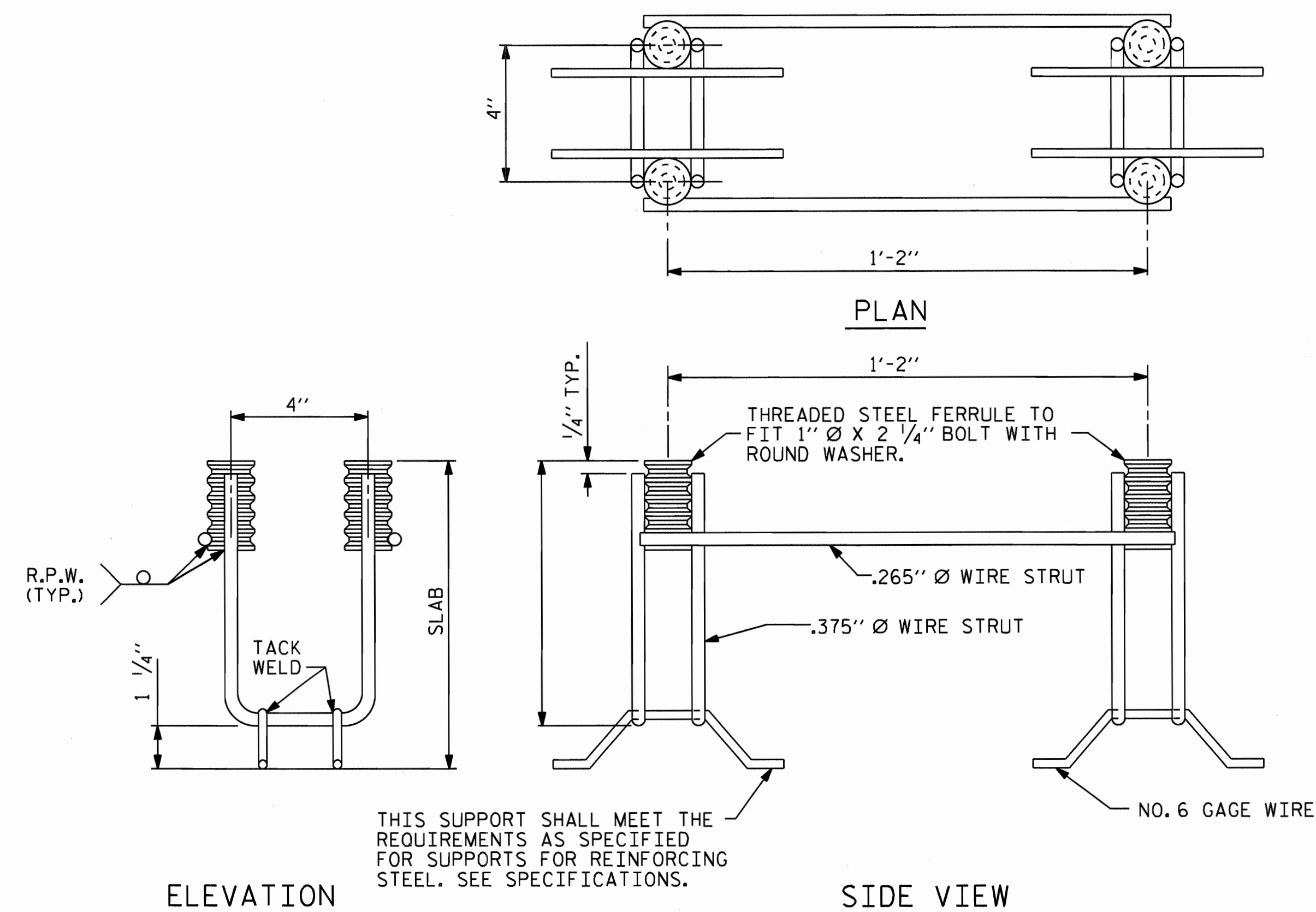
SLAB REINFORCING STEEL MAY BE SHIFTED AS NECESSARY TO CLEAR GUARDRAIL ANCHOR ASSEMBLY. CARE SHOULD BE TAKEN TO KEEP THE SHIFTING OF REINFORCING STEEL TO A MINIMUM.

THE CONTRACTOR MAY USE ADHESIVELY ANCHORED ANCHOR BOLTS IN PLACE OF GUARDRAIL ANCHOR ASSEMBLY. LEVEL TWO FIELD TESTING IS REQUIRED, AND THE YIELD LOAD OF THE 1" Ø BOLT IS 21.8 KIPS. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SPECIAL PROVISIONS.



SECTION A-A

SECTION B-B



ELEVATION

SIDE VIEW

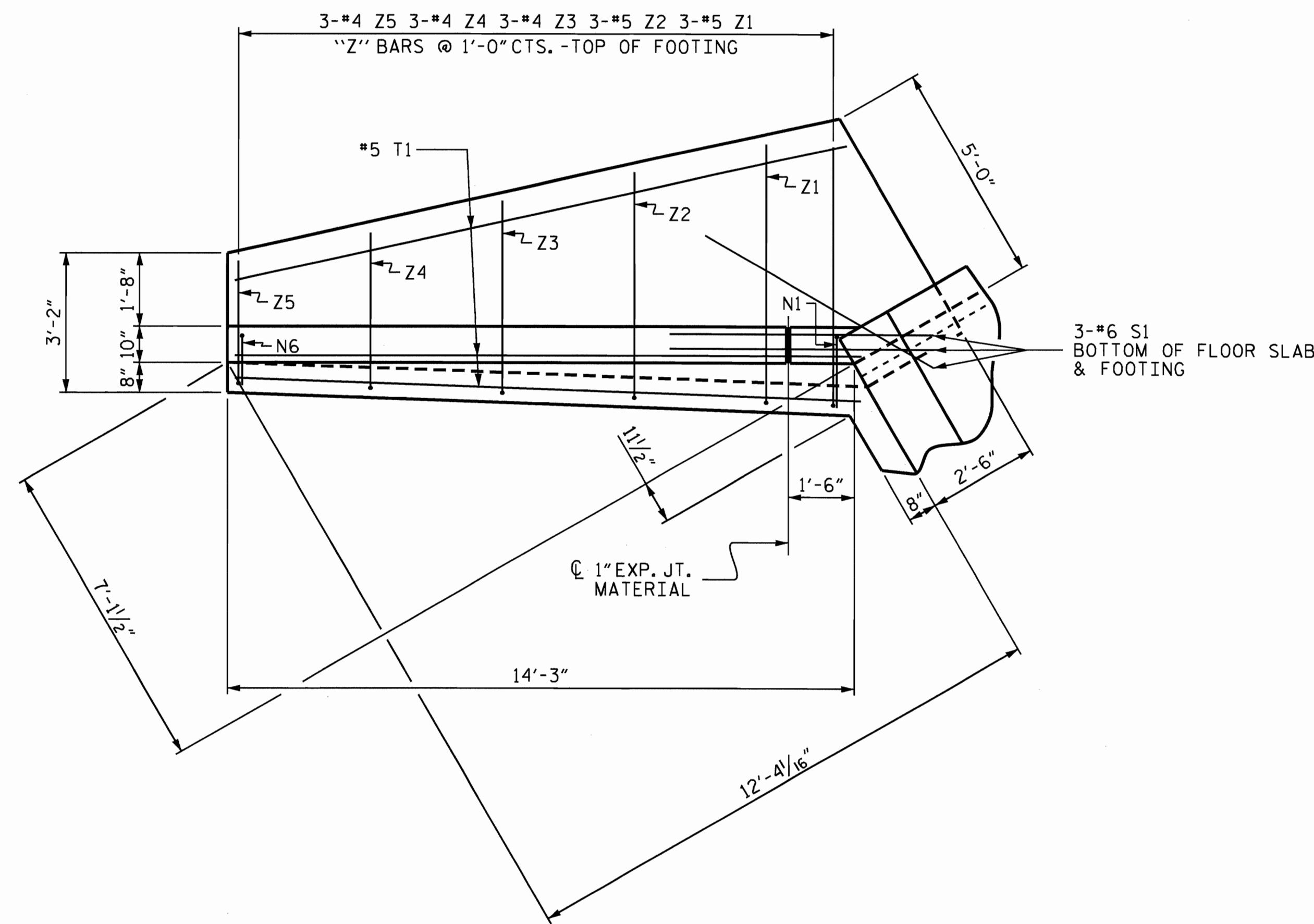
GUARDRAIL ANCHOR ASSEMBLY FOR CULVERTS



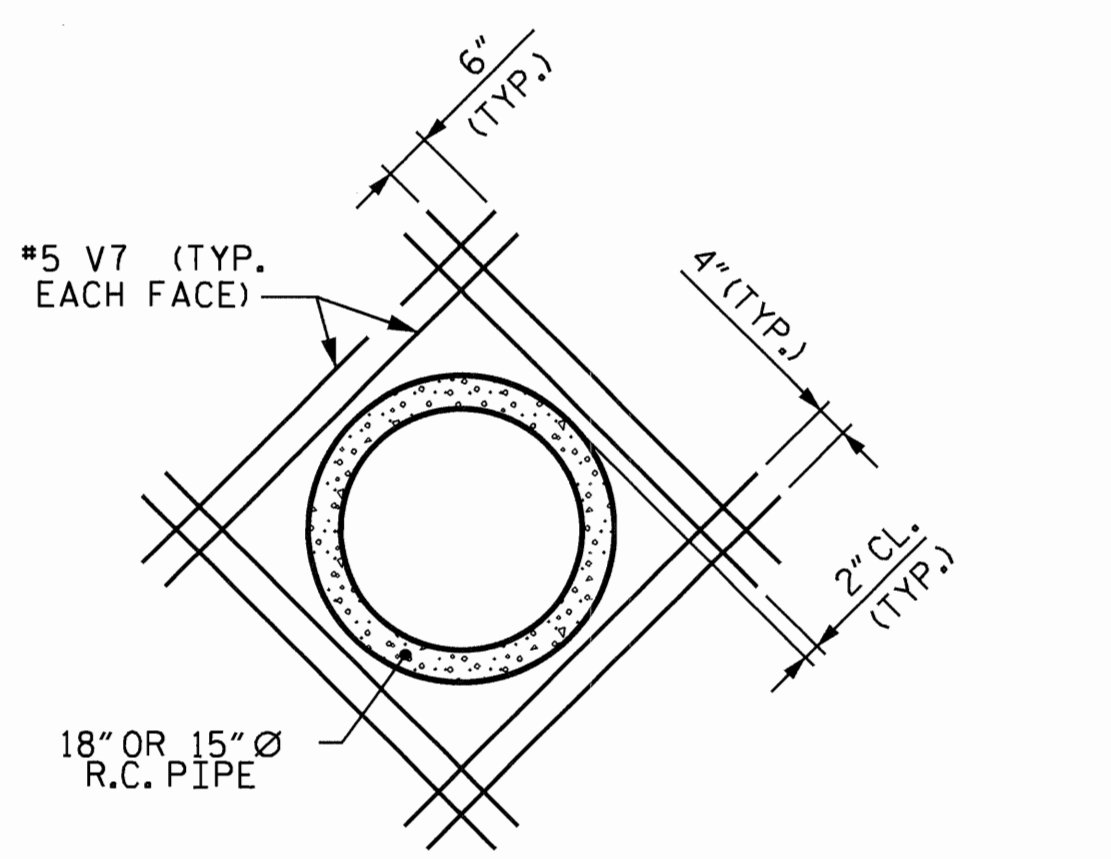
PROJECT NO. B-5204
 BEAUFORT COUNTY
 STATION: 16+33.42 -L-

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						SHEET NO.
STANDARD						C-3
ANCHORAGE DETAILS FOR GUARDRAIL ANCHOR ASSEMBLY FOR CULVERTS						TOTAL SHEETS
						4
REVISIONS						
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			

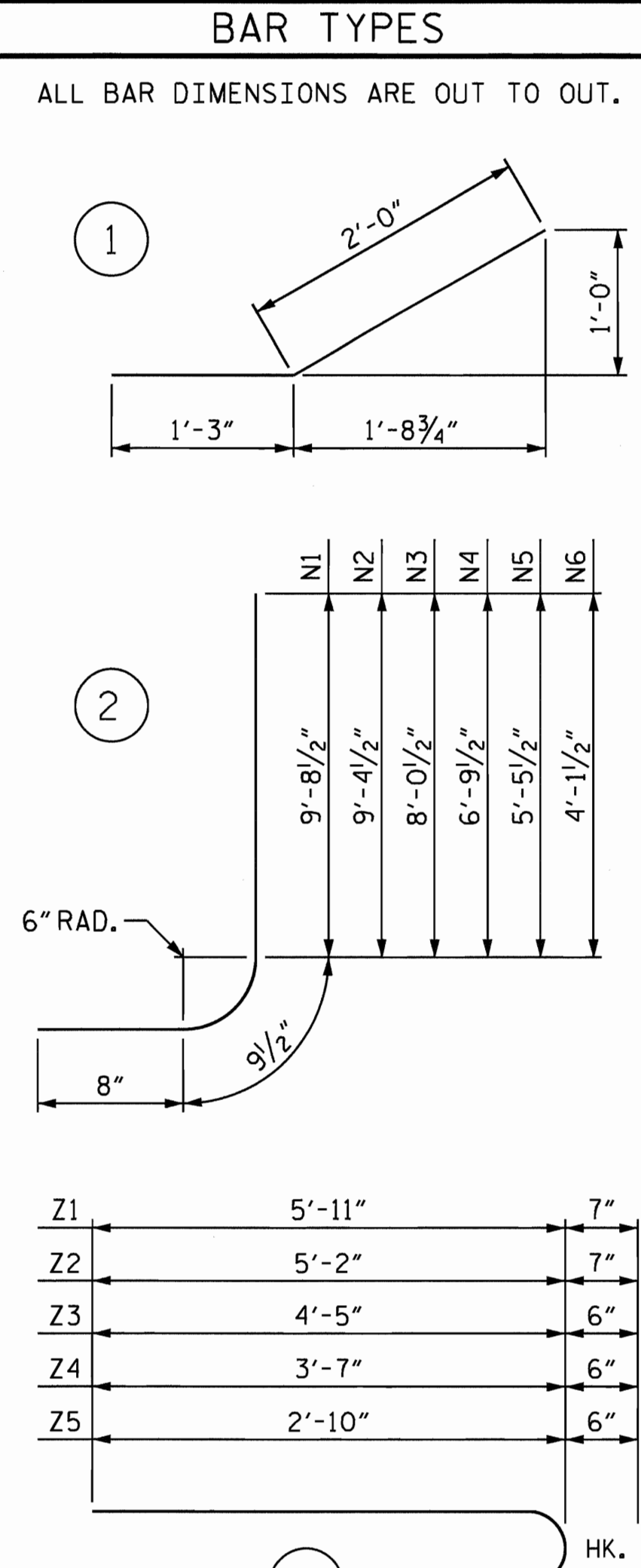
ASSEMBLED BY : M. D. IVY	DATE : 3/22/11
CHECKED BY : B. C. HUNT	DATE : 3/23/11
DRAWN BY : FCJ 6/88	REV. 7/10/01 LES/RDR
CHECKED BY : ARB 6/88	REV. 5/7/03 RWW/JTE
	REV. 5/1/06R KMM/GM



PLAN



DETAIL OF REINFORCING AROUND PIPE



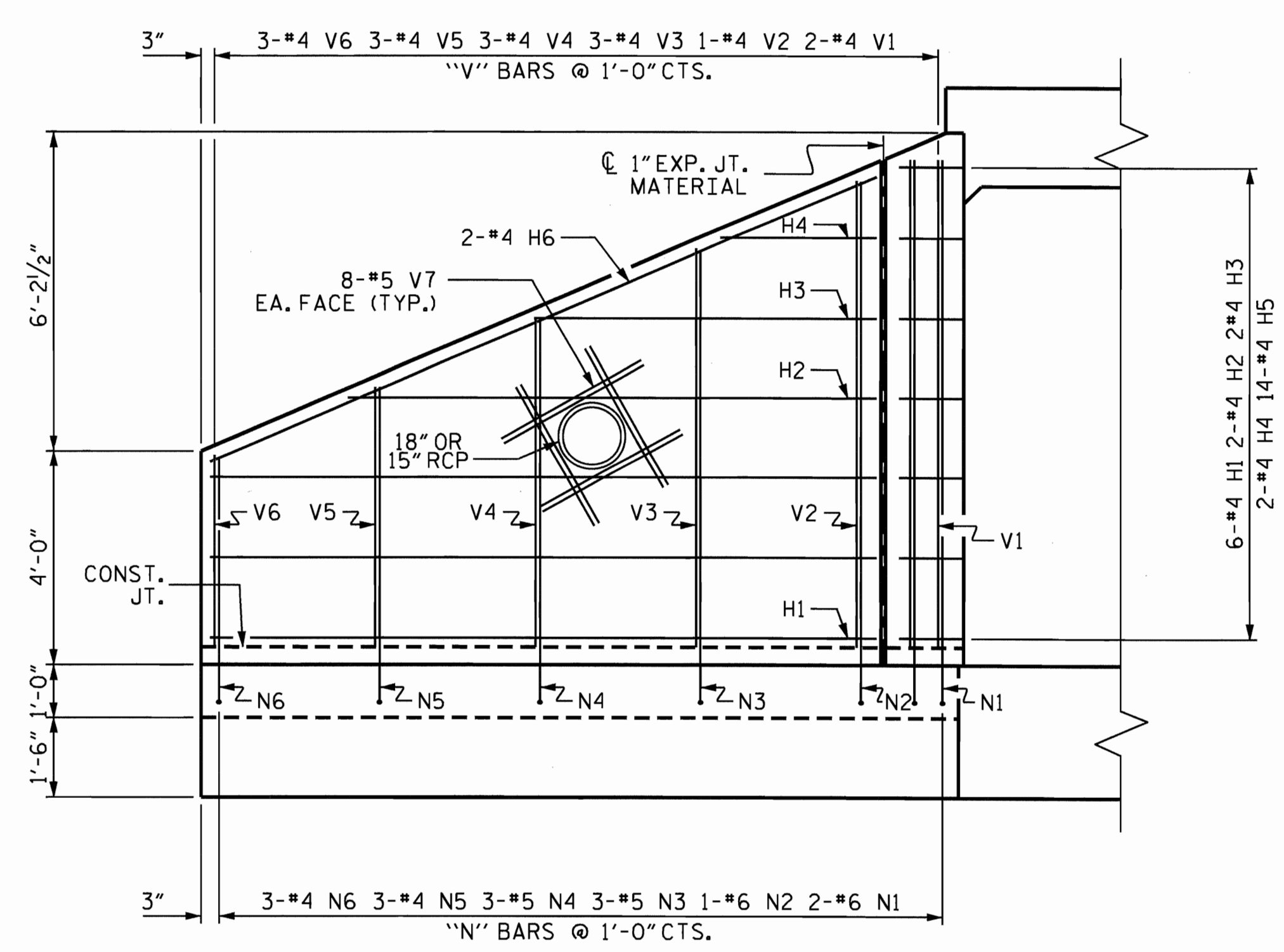
BAR TYPES

BILL OF MATERIAL

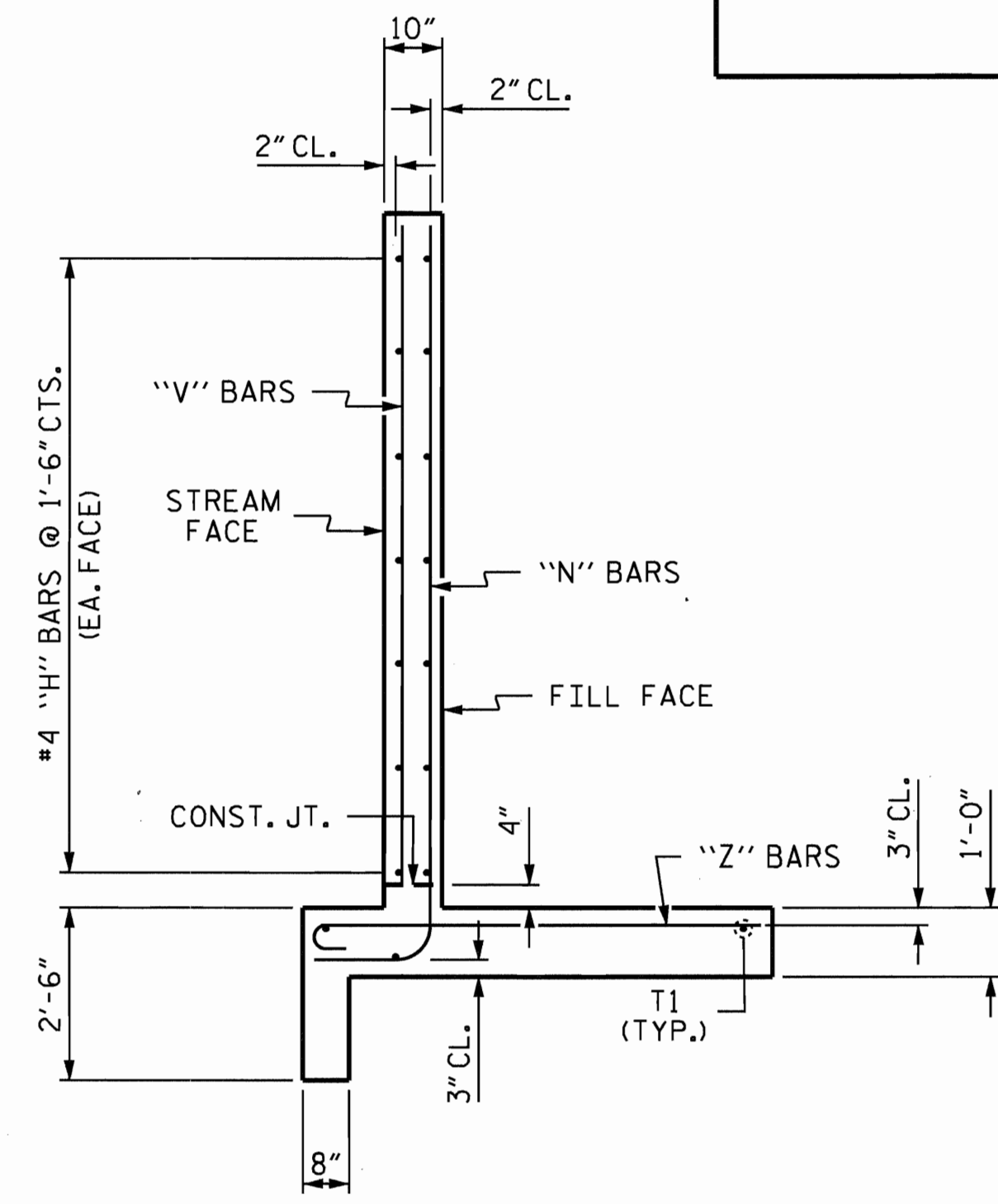
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
H1	24	#4	STR	12'-5"	199
H2	8	#4	STR	9'-10"	53
H3	8	#4	STR	6'-5"	34
H4	8	#4	STR	2'-11"	16
H5	56	#4	1	3'-3"	122
H6	8	#4	STR	13'-6"	72
N1	8	#6	2	11'-2"	134
N2	4	#6	2	10'-10"	65
N3	12	#5	2	9'-6"	119
N4	12	#5	2	8'-3"	103
N5	12	#4	2	6'-11"	55
N6	12	#4	2	5'-7"	45
S1	12	#6	STR	6'-0"	108
T1	12	#5	STR	14'-3"	178
V1	8	#4	STR	9'-2"	49
V2	4	#4	STR	8'-9"	23
V3	12	#4	STR	7'-5"	59
V4	12	#4	STR	6'-2"	49
V5	12	#4	STR	4'-10"	39
V6	12	#4	STR	3'-7"	29
V7	64	#5	STR	4'-0"	267
Z1	12	#5	3	6'-6"	81
Z2	12	#5	3	5'-9"	72
Z3	12	#4	3	4'-11"	39
Z4	12	#4	3	4'-1"	33
Z5	12	#4	3	3'-4"	27

REINFORCING STEEL FOR 4 WINGS 2070 LBS

CLASS A CONCRETE
 4 WINGS 26.2 CY
 2 HEADWALLS 2.4 CY
 2 END CURTAIN WALLS 1.7 CY
 TOTAL 30.3 CY



ELEVATION



TYPICAL WING SECTION

ASSEMBLED BY : M.D. IVY DATE : 3/22/11
 CHECKED BY : B.C. HUNT DATE : 3/23/11
 DRAWN BY : CCJ 10/99
 CHECKED BY : RWW 03/00

V BARS & H BARS MAY BE SHIFTED AS NECESSARY TO AVOID INTERFERENCE WITH PIPE THROUGH WING

PROJECT NO. B-5204
 BEAUFORT COUNTY
 STATION: 16+33.42 -L-

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD WINGS
 FOR
 CONCRETE BOX CULVERT
 H = 9'-0" SLOPE = 2:1
 90° SKEW

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

STD. NO. CW9009



STANDARD NOTES

DESIGN DATA:

SPECIFICATIONS	-----	A.A.S.H.T.O. (CURRENT)
LIVE LOAD	-----	SEE PLANS
IMPACT ALLOWANCE	-----	SEE A.A.S.H.T.O.
STRESS IN EXTREME FIBER OF		
STRUCTURAL STEEL - AASHTO M270 GRADE 36	-	20,000 LBS. PER SQ. IN.
- AASHTO M270 GRADE 50W	-	27,000 LBS. PER SQ. IN.
- AASHTO M270 GRADE 50	-	27,000 LBS. PER SQ. IN.
REINFORCING STEEL IN TENSION		
GRADE 60	--	24,000 LBS. PER SQ. IN.
CONCRETE IN COMPRESSION	-----	1,200 LBS. PER SQ. IN.
CONCRETE IN SHEAR	-----	SEE A.A.S.H.T.O.
STRUCTURAL TIMBER - TREATED OR		
UNTREATED - EXTREME FIBER STRESS	-----	1,800 LBS. PER SQ. IN.
COMPRESSION PERPENDICULAR TO GRAIN OF TIMBER	-----	375 LBS. PER SQ. IN.
EQUIVALENT FLUID PRESSURE OF EARTH	-----	30 LBS. PER CU. FT. (MINIMUM)

MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2006 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N. C. DEPARTMENT OF TRANSPORTATION.

STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CLASS AA CONCRETE SHALL BE USED IN BRIDGE SUPERSTRUCTURES, ABUTMENT BACKWALLS, AND APPROACH SLABS; AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED 3/4" WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO 1-1/2" RADIUS WHICH IS BUILT INTO CURB FORMS; CORNERS OF TRANSVERSE FLOOR EXPANSION JOINTS SHALL BE ROUNDED WITH A 1/4" FINISHING TOOL UNLESS OTHERWISE REQUIRED ON PLANS; AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A 1/4" RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REQUIRED ON PLANS.

DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. SLABS, CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE.
ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD DEFLECTIONS ARE DIMENSIONS AT CENTER LINE OF BEARING UNLESS OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE ELEVATIONS SHOWN. WHERE BLOCKS ARE SHOWN OVER BEAMS FOR BUILDING UP TO THE SLAB, THE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER. WHERE BOTTOM OF SLAB IS IN LINE WITH BOTTOM OF TOP FLANGES, DEPTH OF SLAB BETWEEN BEARINGS SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER.
IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS, AN ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTIONS, SETTLEMENT OF FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER.
DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE AND ANY STRUCTURE OR PARTS OF A STRUCTURE AS NOTED ON THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE DEFORMED, DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT TO OUT AS INDICATED ON PLANS.
WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN CONTINUOUS LINES, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOCK LEGS ON ADJOINING PIECES.

STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE 7/8" Ø SHEAR STUDS FOR THE 3/4" Ø STUDS SPECIFIED ON THE PLANS. THIS SUBSTITUTION SHALL BE MADE AT THE RATE OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS, AND STUD SPACING CHANGES SHALL BE MADE AS NECESSARY TO PROVIDE THE SAME EQUIVALENT NUMBER OF 7/8" Ø STUDS ALONG THE BEAM AS SHOWN FOR 3/4" Ø STUDS BASED ON THE RATIO OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS. STUDS OF THE LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED. THE MAXIMUM SPACING SHALL BE 2'-0".
EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE FOR THE COVER PLATES DESIGNATED ON THE PLANS COVER PLATES OF THE EQUIVALENT AREA PROVIDED THESE PLATES ARE AT LEAST 5/16" IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2" OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF FILLET WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ANSI/AASHTO/AWS "BRIDGE WELDING CODE". ELECTROSLAG WELDING WILL NOT BE PERMITTED.
WITH THE SOLE EXCEPTION OF EDGES AT SURFACES WHICH BEAR ON OTHER SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES AND PLATES SHALL BE SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 1/16 INCH OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING, GALVANIZING, OR METALLIZING.

HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE METAL RAIL AND TOPS OF CONCRETE POSTS USED WITH THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB.
METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE RAILING. CASTINGS SHALL BE OF A UNIFORM APPEARANCE. FINIS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE OBTAINED. CASTINGS WITH DISCOLORATIONS OR OF NON-UNIFORM COLORING WILL NOT BE ACCEPTED. CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

SPECIAL NOTES:

GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE SPECIFICATIONS ARTICLE 105-4.

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