

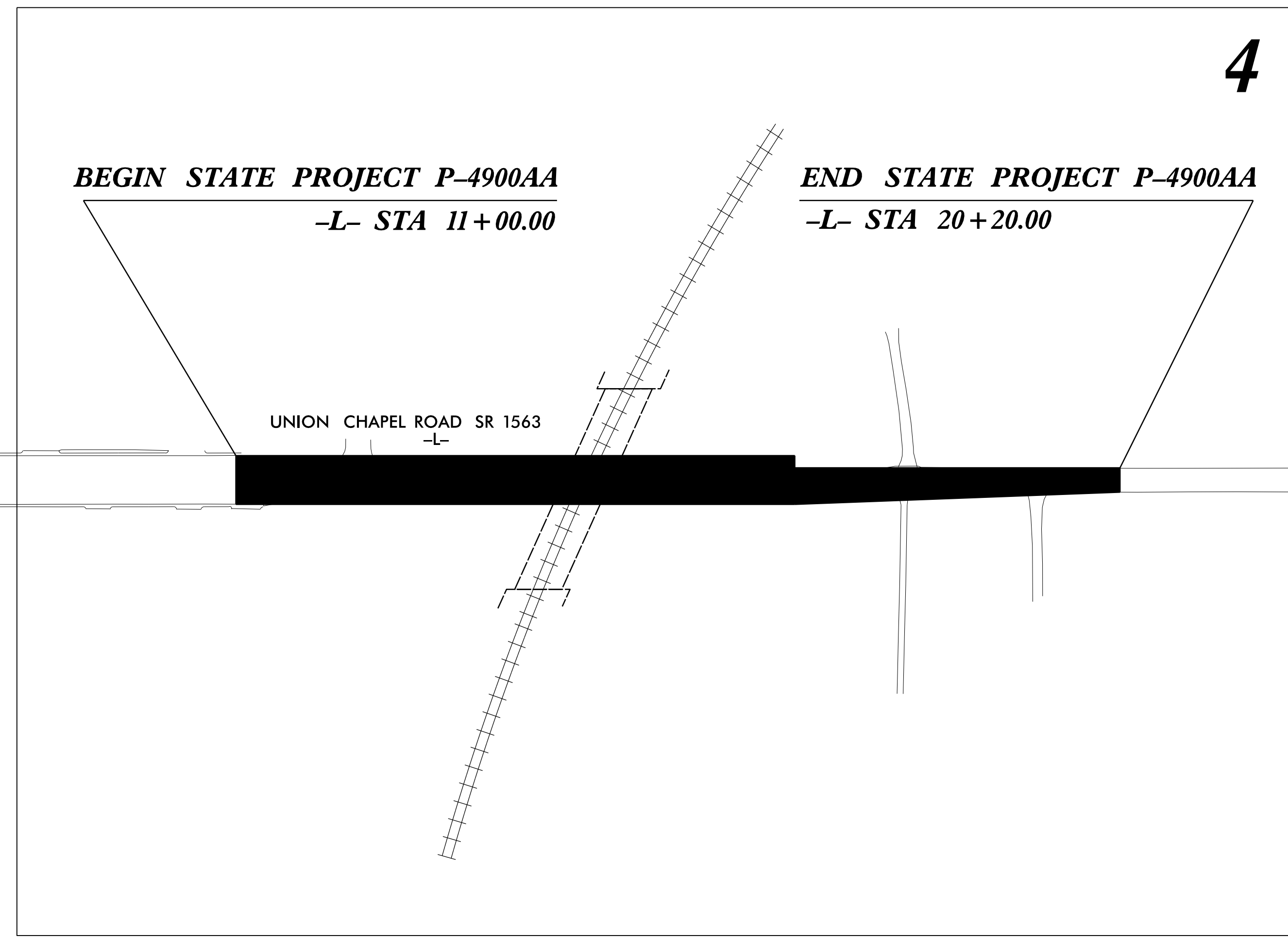
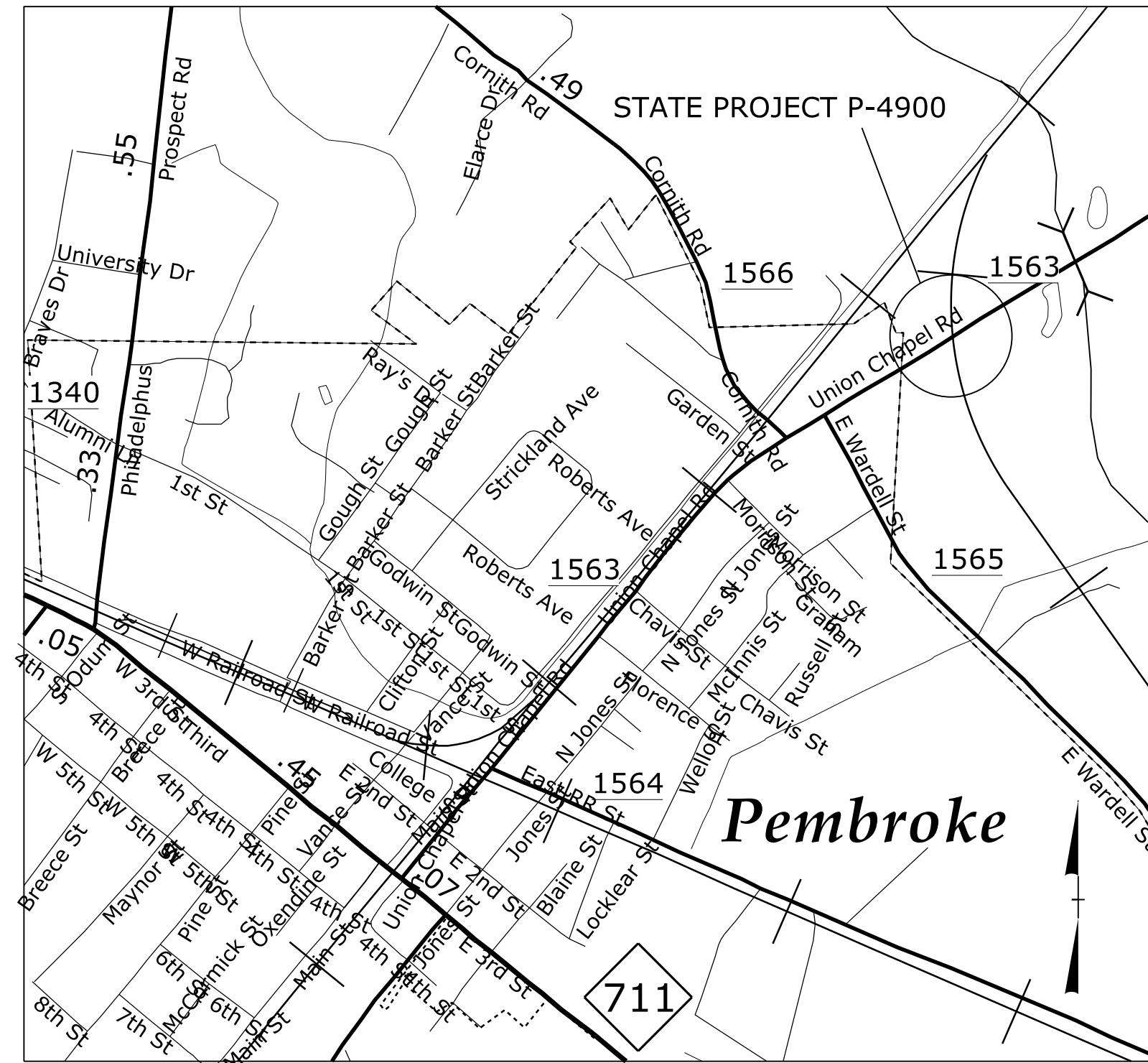
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	P-4900AA	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
41099.1.S3		P.E.	
41099.2.S1 CLOSED		ROW/UTILITIES	
41099.3.7		CONSTRUCTION	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ROBESON COUNTY

LOCATION: UNION CHAPEL ROAD (SR 1563) AT NEW RAILROAD BRIDGE APPROXIMATELY 0.14 MILES NORTHEAST OF E WARDELL STREET

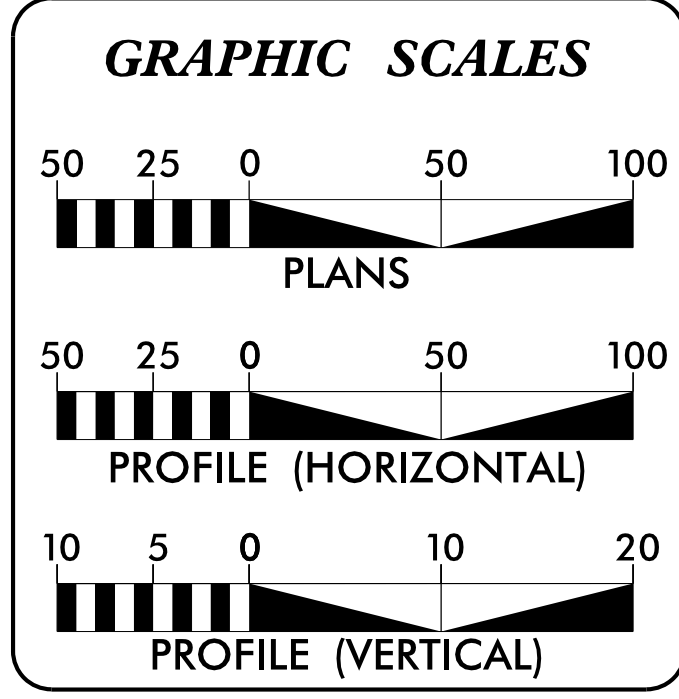
TYPE OF WORK: GRADING, PAVING, CURB AND GUTTER, DRAINAGE AND PAVEMENT MARKINGS



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

TIP PROJECT: P-4900AA

CONTRACT: DF00283



DESIGN DATA

ADT 2016 =	7200
ADT 2036 =	13000

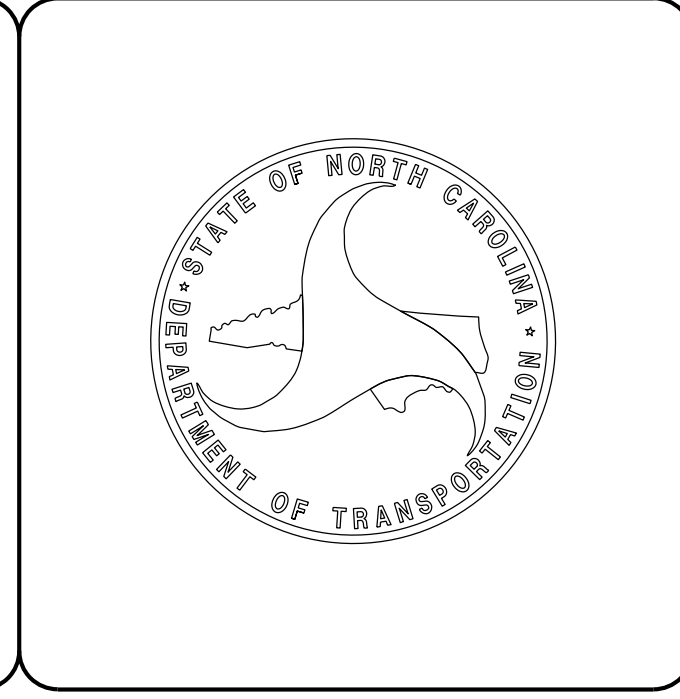
PROJECT LENGTH

TOTAL LENGTH STATE PROJECT P-4900AA = 0.17 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
431 Transportation Dr., Fayetteville NC 28301

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MAY 29, 2020	JOHN GAUTHIER PROJECT ENGINEER
LETTING DATE: SEPTEMBER 15, 2021	NEIL BUTLER PROJECT DESIGN ENGINEER



15-JUN-2021 14:28 S:\DDC\BDC\Projects\P-4900 Union Chapelat RailBridge_Rob Co\Roadway\proj\P-4900_Rdy_fsh.dgn \$\$\$\$USERNAME\$\$\$

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed 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	----- MLB
Proposed Wetland Boundary	----- MLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Existing Historic Property Boundary	----- HPB
Known Contamination Area: Soil	---S---S---
Potential Contamination Area: Soil	---S---S---
Known Contamination Area: Water	---W---W---
Potential Contamination Area: Water	---W---W---
Contaminated Site: Known or Potential	☠ ?

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	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite RW Marker	-----
New Control of Access Line with Concrete C/A Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
New Temporary Drainage Easement	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

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

VEGETATION:

Single Tree	○
Single Shrub	○

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Hedge	-----
Woods Line	-----
Orchard	-----
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	●
U/G Power Line LOS B (S.U.E.*)	----- P
U/G Power Line LOS C (S.U.E.*)	----- P
U/G Power Line LOS D (S.U.E.*)	----- P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	□
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	----- T
U/G Telephone Cable LOS C (S.U.E.*)	----- T
U/G Telephone Cable LOS D (S.U.E.*)	----- T
U/G Telephone Conduit LOS B (S.U.E.*)	----- TC
U/G Telephone Conduit LOS C (S.U.E.*)	----- TC
U/G Telephone Conduit LOS D (S.U.E.*)	----- TC
U/G Fiber Optics Cable LOS B (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS C (S.U.E.*)	----- T FO
U/G Fiber Optics Cable LOS D (S.U.E.*)	----- T FO

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

TV:

TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	----- TV
U/G TV Cable LOS C (S.U.E.*)	----- TV
U/G TV Cable LOS D (S.U.E.*)	----- TV
U/G Fiber Optic Cable LOS B (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*)	----- TV FO
U/G Fiber Optic Cable LOS D (S.U.E.*)	----- TV FO

GAS:

Gas Valve	◇
Gas Meter	◇
U/G Gas Line LOS B (S.U.E.*)	----- G
U/G Gas Line LOS C (S.U.E.*)	----- G
U/G Gas Line LOS D (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

SANITARY SEWER:

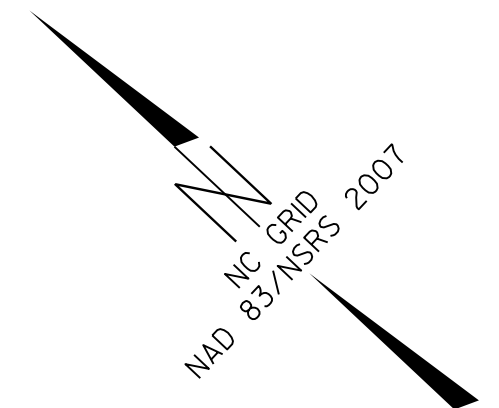
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

MISCELLANEOUS:

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

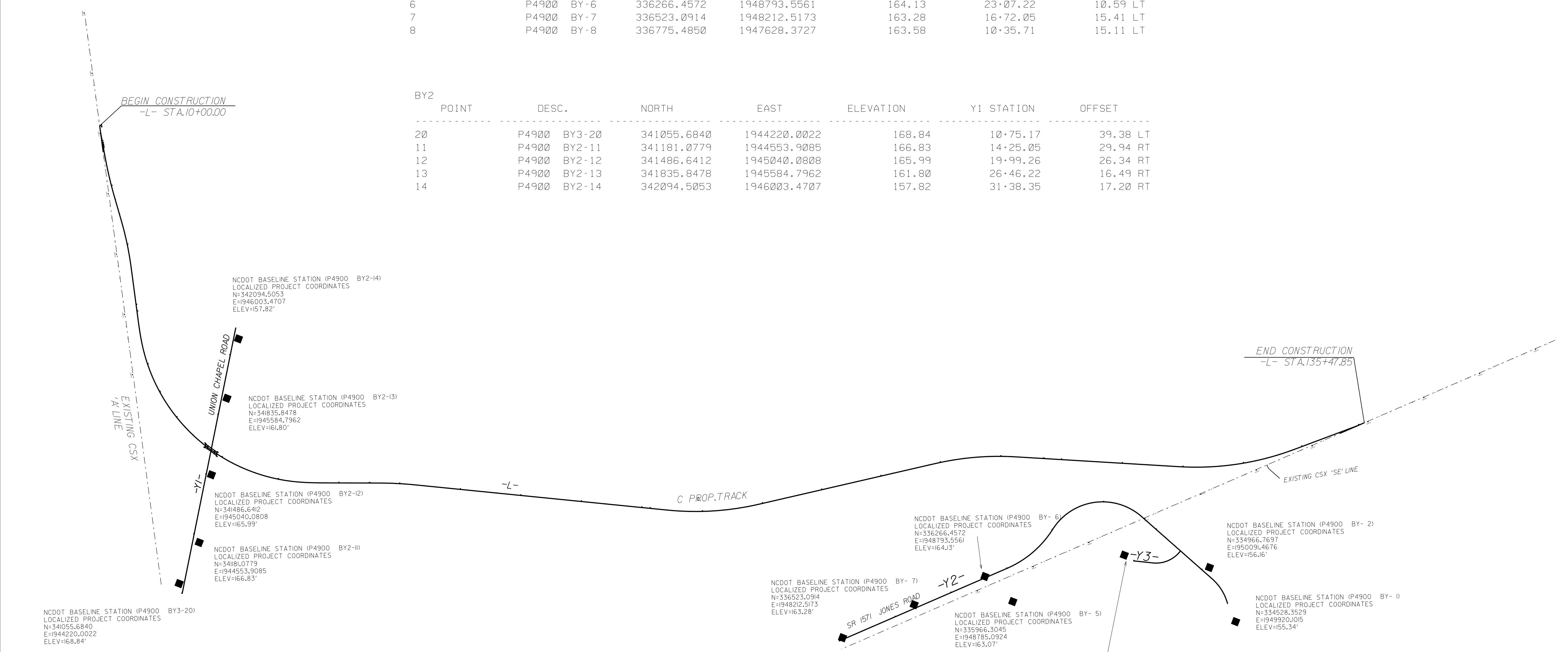
SURVEY CONTROL SHEET P-4900

6/12/99



BY	POINT	DESC.	NORTH	EAST	ELEVATION	Y2 STATION	OFFSET
1	P4900	BY-1	334528.3529	1949920.1015	155.34	OUTSIDE PROJECT LIMITS	
2	P4900	BY-2	334966.7697	1950091.4676	156.16	45+40.79	35.04 LT
3	P4900	BY-3	335534.4356	1949685.3764	163.79	39+60.82	353.28 RT
4	P4900	BY-4	335809.4216	1949072.9187	163.84	26+78.72	323.53 RT
5	P4900	BY-5	335966.3045	1948785.0924	163.07	24+18.64	268.25 RT
6	P4900	BY-6	336266.4572	1948793.5561	164.13	23+07.22	10.59 LT
7	P4900	BY-7	336523.0914	1948212.5173	163.28	16+72.05	15.41 LT
8	P4900	BY-8	336775.4850	1947628.3727	163.58	10+35.71	15.11 LT

BY2	POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
20	P4900	BY3-20	341055.6840	1944220.0022	168.84	10+75.17	39.38 LT
11	P4900	BY2-11	341181.0779	1944553.9085	166.83	14+25.05	29.94 RT
12	P4900	BY2-12	341486.6412	1945040.0808	165.99	19+99.26	26.34 RT
13	P4900	BY2-13	341835.8478	1945584.7962	161.80	26+46.22	16.49 RT
14	P4900	BY2-14	342094.5053	1946003.4707	157.82	31+38.35	17.20 RT



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "PROSPECT"

WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
 NORTHING: 372029.5512(±ft) EASTING: 1938868.6682(±ft)
 ELEVATION: 196.92(±ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99991940

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "PROSPECT" TO -L- STATION 10+00.00 IS
 N 15° 18' 43.77" W 28949.9515'

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

NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/](https://connect.ncdot.gov/resources/location/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 P4900_IS_CONTROL.TXT
- SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

© INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
 NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION
 SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

NOTE: DRAWING NOT TO SCALE

15 JUN 2016 10:52 AM C:\Users\jcm\OneDrive\Documents\Projects\4900\LocationSurveys\4900_IS_CONTROL.TXT

\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$USERNAME\$\$\$\$\$

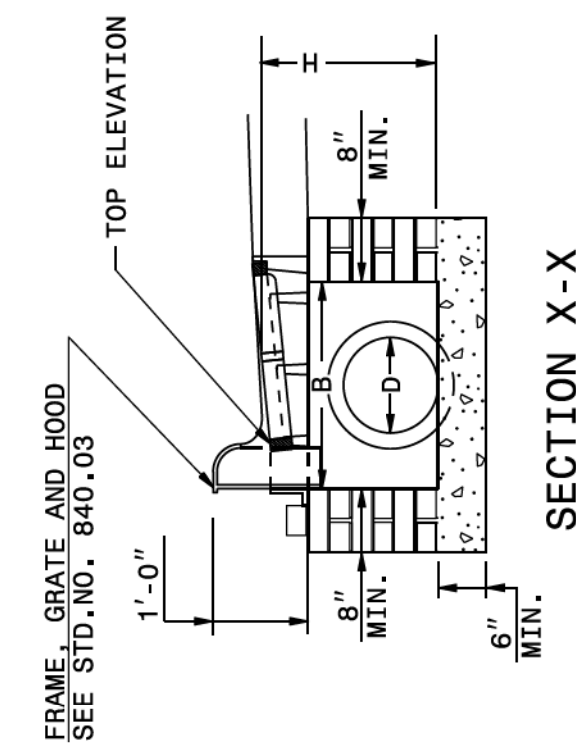
5/14/99

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

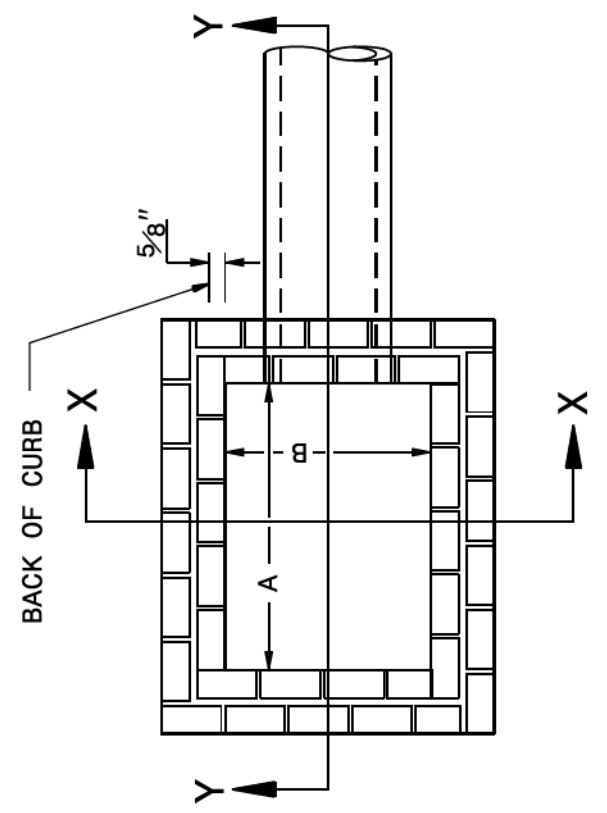
ENGLISH DETAIL DRAWING FOR
MINIMUM DEPTH BRICK CATCH BASIN
 12" THRU 24" PIPE

SHEET 1 OF 1
840D01

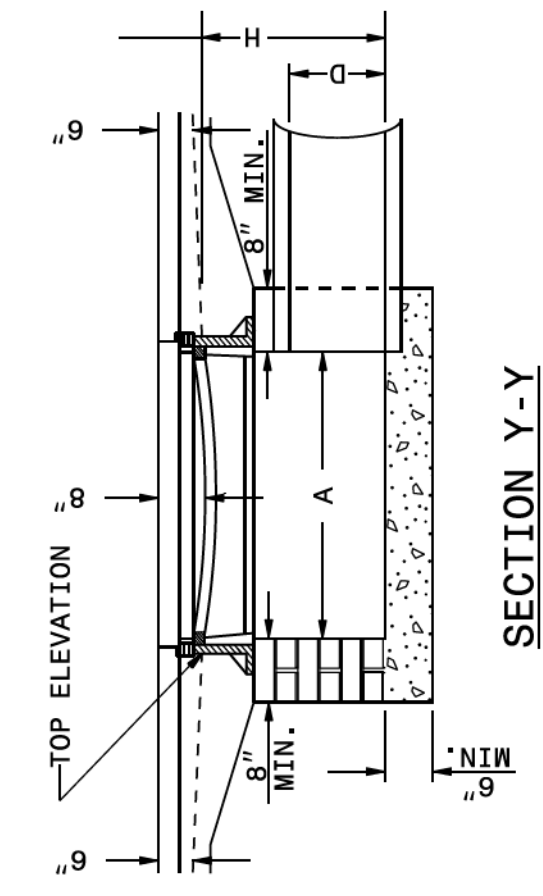
GENERAL NOTES:
 MORTAR JOINTS 1/2" TO 1/8" THICK.
 USE CLASS "B" CONCRETE THROUGHOUT.
 USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
 DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
 USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
 USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS
 OF SECTION 840 OF THE STANDARD SPECIFICATIONS.
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB
 AS SHOWN ON STD. NO. 840.00.
 CONSTRUCT WITH PIPE CROWNS MATCHING.
 CHAMFER ALL EXPOSED CORNERS 1".
 DRAWING NOT TO SCALE.



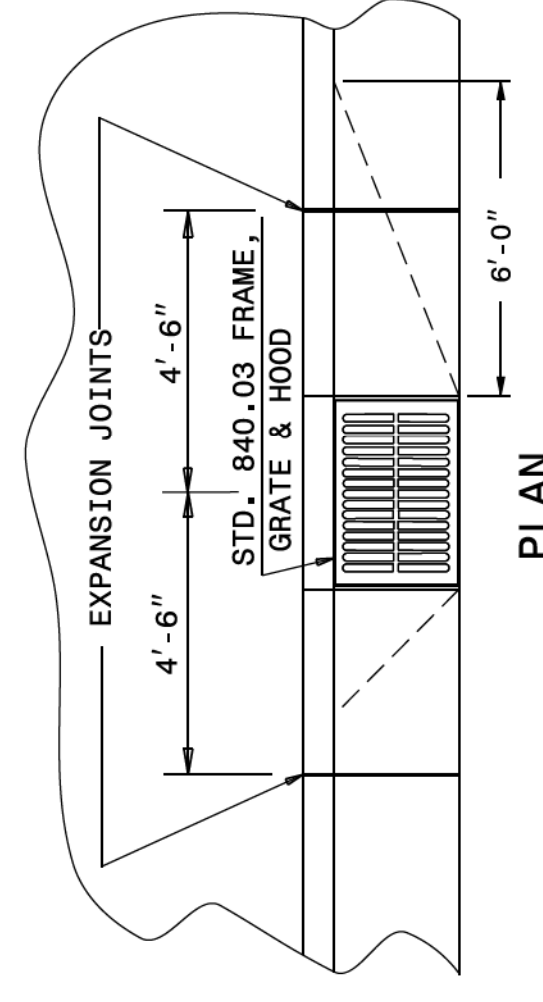
SECTION X-X



PLAN

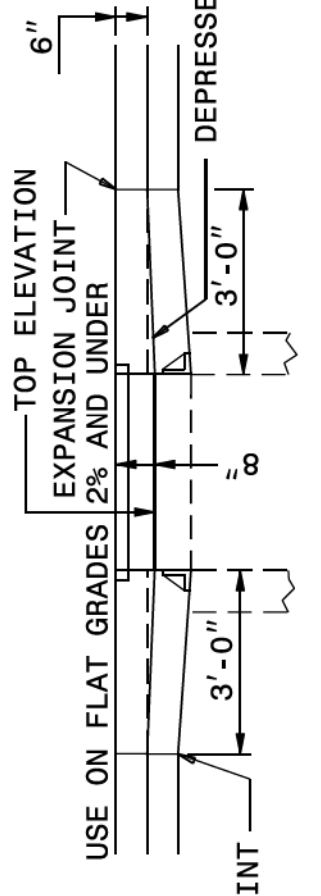


SECTION Y-Y



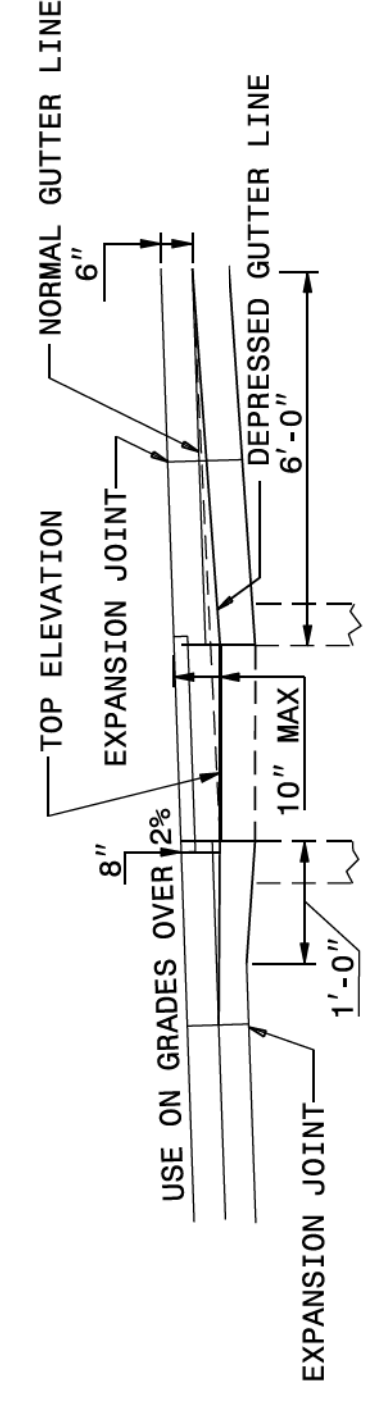
PLAN

CURB AND GUTTER WITH CATCH BASIN ON STEEP GRADES



ELEVATION

NORMAL CURB AND GUTTER ON LIGHT GRADES



ELEVATION

NORMAL CURB AND GUTTER ON STEEP GRADES

MINIMUM DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN							
DIMENSIONS OF BOX AND PIPE		CU. YDS. CONC. IN BOX		BRICK MASONRY		DEDUCTIONS	
PIPE	SPAN	WIDTH	MIN. HEIGHT	TOTAL CONC.	TOTAL BRICK MSNR. IN WALLS	TOTAL CONCRETE	ONE PIPE
D	A	B	H			C.M.	R.C.
12"	3'-0"	2'-2"	1'-9"	0.281	0.481	0.762	0.020
15"	3'-0"	2'-2"	1'-11"	0.281	0.562	0.843	0.031
18"	3'-0"	2'-2"	2'-2"	0.281	0.642	0.923	0.044
24"	3'-0"	2'-2"	2'-9"	0.281	0.828	1.109	0.078

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

ENGLISH DETAIL DRAWING FOR
MINIMUM DEPTH BRICK CATCH BASIN
 12" THRU 24" PIPE

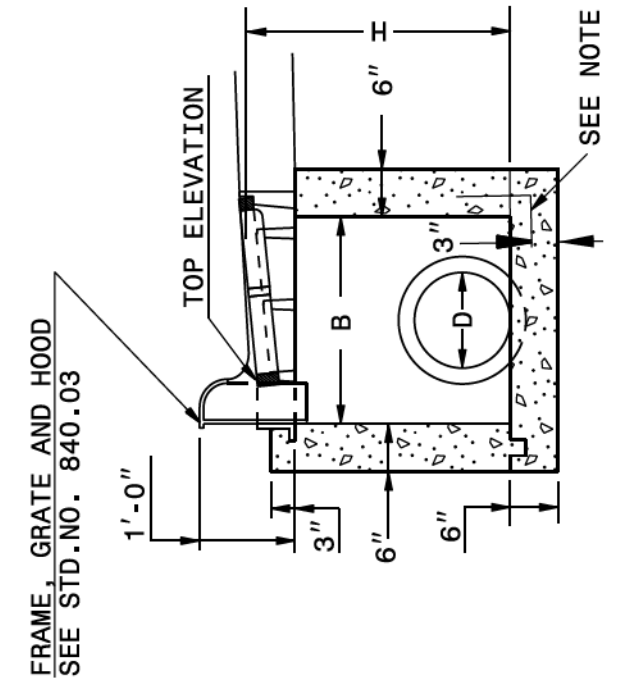
SHEET 1 OF 1
840D01

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

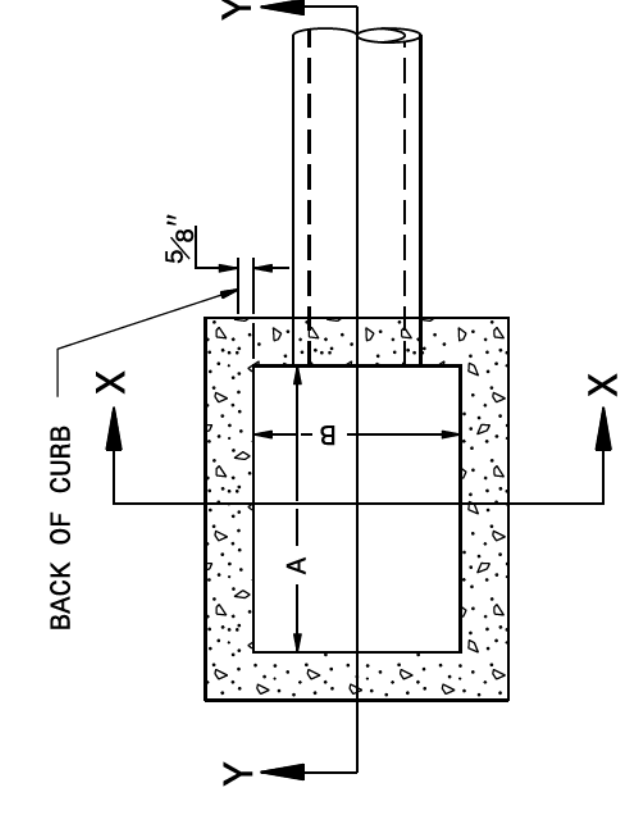
ENGLISH DETAIL DRAWING FOR
MINIMUM DEPTH CONCRETE CATCH BASIN
 12" THRU 24" PIPE

SHEET 1 OF 1
840D02

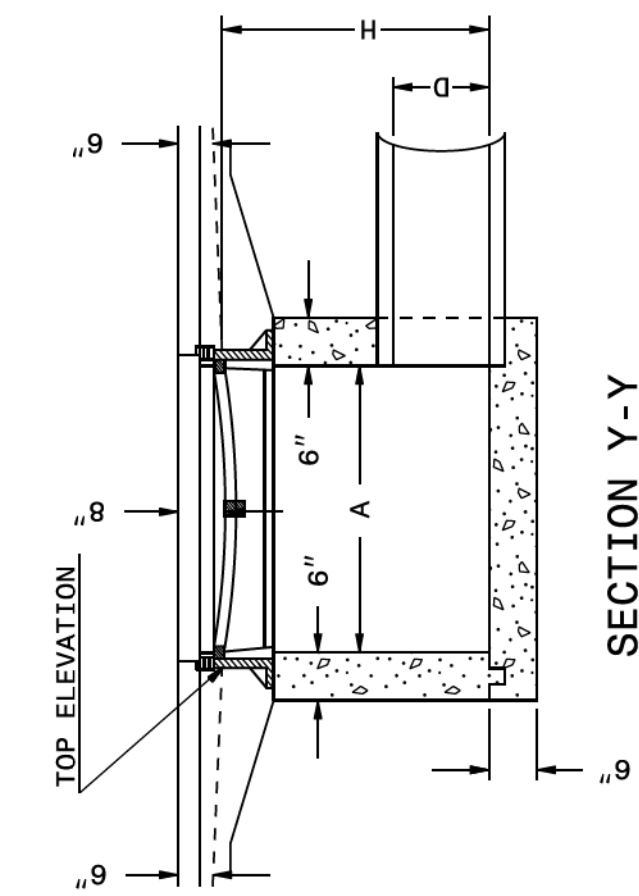
GENERAL NOTES:
 USE CLASS "B" CONCRETE THROUGHOUT.
 OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
 USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
 CONSTRUCT WITH PIPE CROWNS MATCHING.
 CHAMFER ALL EXPOSED CORNERS 1".
 DRAWING NOT TO SCALE.



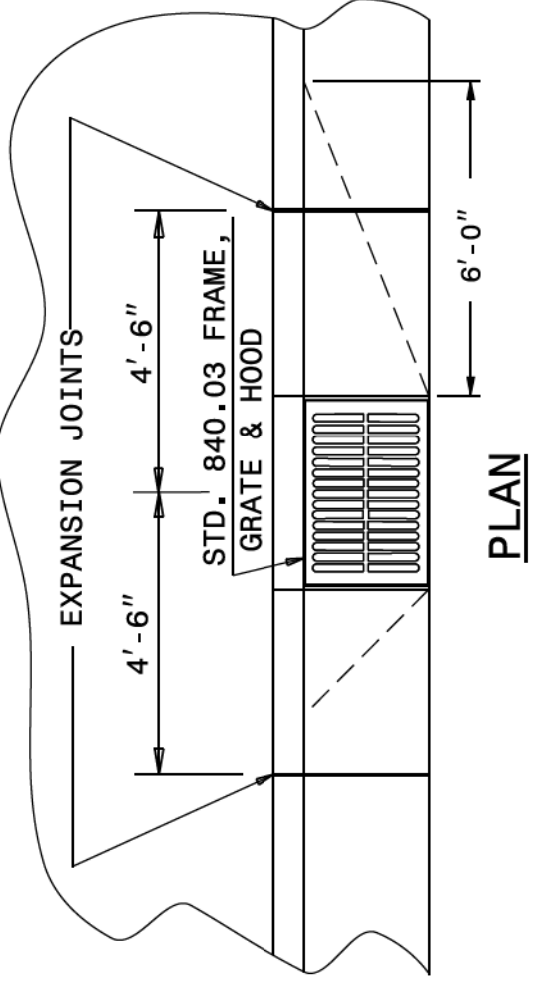
SECTION X-X



PLAN

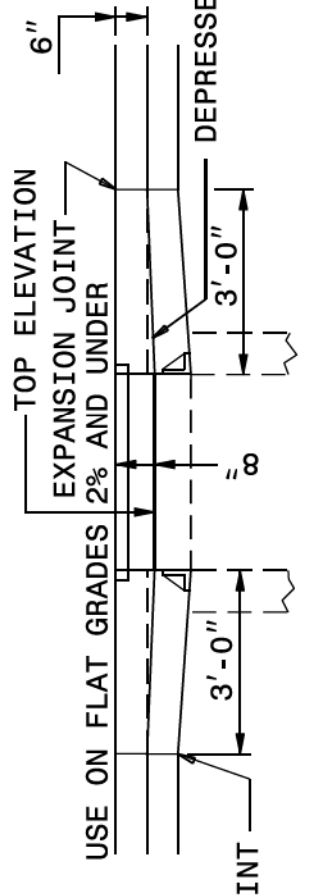


SECTION Y-Y



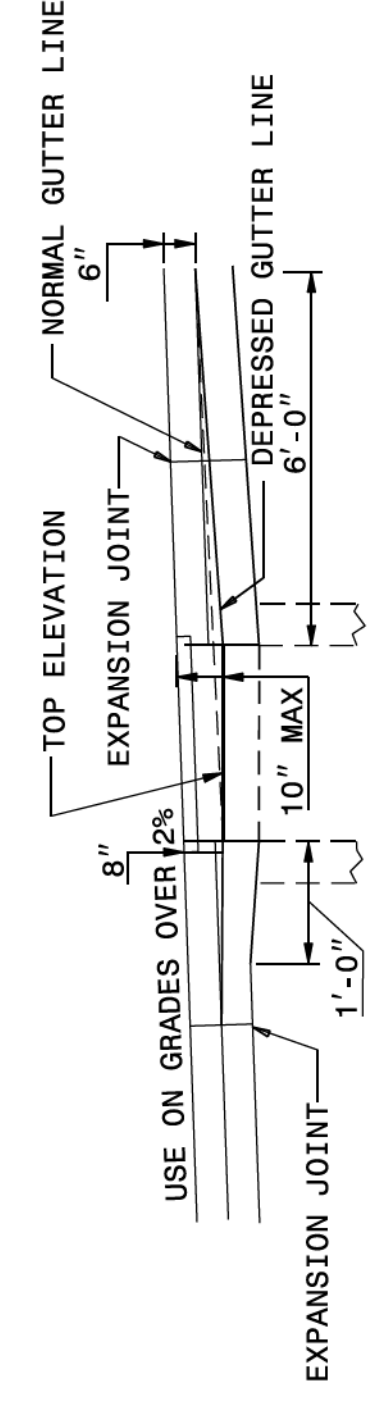
PLAN

CURB AND GUTTER WITH CATCH BASIN ON STEEP GRADES



ELEVATION

NORMAL CURB AND GUTTER ON LIGHT GRADES



ELEVATION

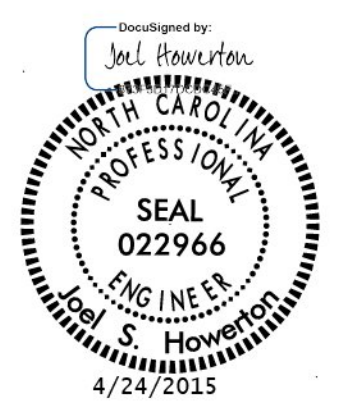
NORMAL CURB AND GUTTER ON STEEP GRADES

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN							
DIMENSIONS OF BOX AND PIPE		CU. YDS. CONC. IN BOX		CONCRETE		DEDUCTIONS	
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	IN WALLS	TOTAL CONC.	ONE PIPE
D	A	B	H			C.M.	R.C.
12"	3'-0"	2'-2"	1'-9"	0.235	0.343	0.578	0.015
15"	3'-0"	2'-2"	1'-11"	0.235	0.400	0.635	0.023
18"	3'-0"	2'-2"	2'-2"	0.235	0.457	0.692	0.033
24"	3'-0"	2'-2"	2'-9"	0.235	0.590	0.825	0.059

CONTRACT STANDARDS AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: 2002 STD. 840.01 DATE: _____
 MODIFIED BY: E.E. WARD DATE: 3-1-02
 CHECKED BY: _____ DATE: _____
 FILE SPEC.: _____



DIV06-20274L

COMPUTED BY: Craig Freeman DATE: 8/5/2021
CHECKED BY: DATE:

PROJECT NO. P-4900 SHEET NO. 3D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns: LINE & STATION, OFFSET, STRUCTURE NUMBER, R. C. PIPE CLASS IV, R. C. PIPE CLASS V, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, and REMARKS. Includes sub-headers for invert elevations, minimum required slope, and grate types.

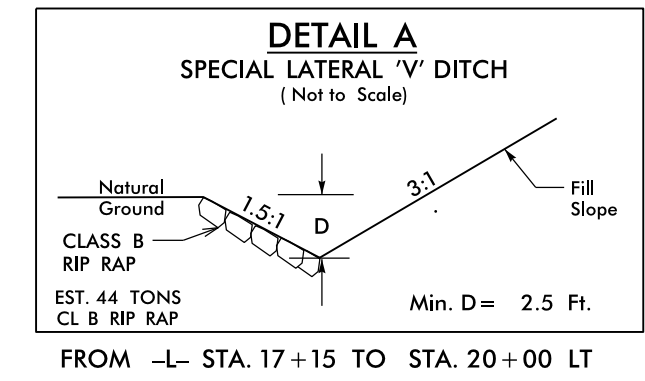
SHEET TOTALS: 600 68 572 24 12 9 2 3 4 3 3 397
PROJECT TOTALS: 600 68 572 24 12 9 2 3 4 3 3 397

ABBREVIATIONS
C.A.A. CORRUGATED ALUMINIUM ALLOY
C.B. CATCH BASIN
C.S. CORRUGATED STEEL
D.I. DROP INLET
G.D.I. GRATED DROP INLET
H.D.P.E. HIGH DENSITY POLYETHYLENE
J.B. JUNCTION BOX
M.H. MANHOLE
N.S. NARROW SLOT
P.V.C. POLYVINYL CHLORIDE
R.C. REINFORCED CONCRETE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX
W.S. WIDE SLOT

BEGIN STATE PROJECT P-4900AA
-L- STA 11+00.00

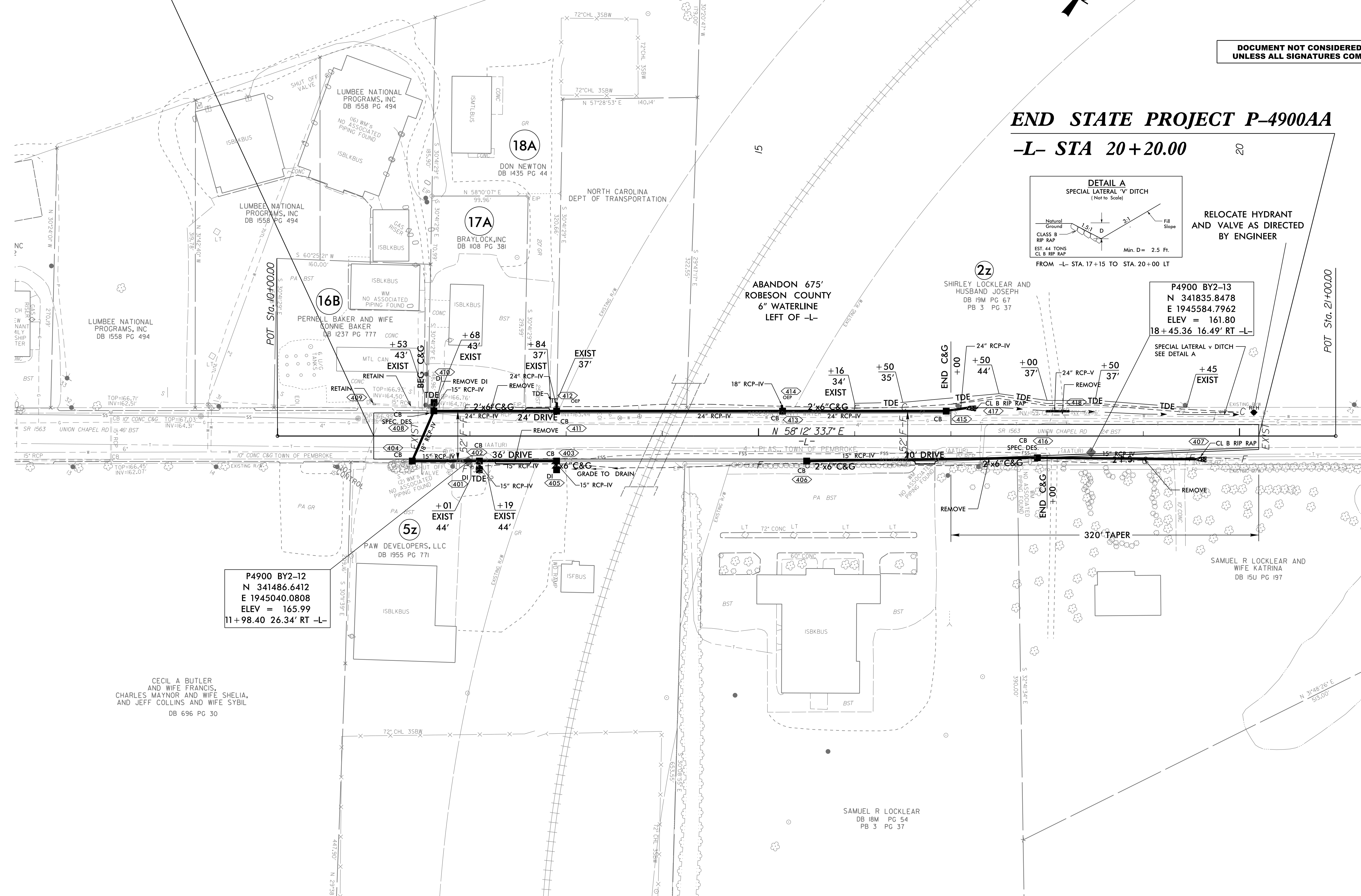
END STATE PROJECT P-4900AA
-L- STA 20+20.00

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



**RELOCATE HYDRANT
AND VALVE AS DIRECTED
BY ENGINEER**

FROM -L- STA. 17+15 TO STA. 20+00 LT



P4900 BY2-12
N 341486.6412
E 1945040.0808
ELEV = 165.99
11+98.40 26.34' RT -L-

P4900 BY2-13
N 341835.8478
E 1945584.7962
ELEV = 161.80
18+45.36 16.49' RT -L-

CECIL A BUTLER
AND WIFE FRANCIS,
CHARLES MAYNOR AND WIFE SHELIA,
AND JEFF COLLINS AND WIFE SYBIL
DB 696 PG 30

SAMUEL R LOCKLEAR
DB 18M PG 54
PB 3 PG 37

PAW DEVELOPERS, LLC
DB 1955 PG 771

SHIRLEY LOCKLEAR AND
HUSBAND JOSEPH
DB 19M PG 67
PB 3 PG 37

BRAYLOCK, INC
DB 1108 PG 381

DON NEWTON
DB 1435 PG 44

LUMBEE NATIONAL
PROGRAMS, INC
DB 1558 PG 494

LUMBEE NATIONAL
PROGRAMS, INC
DB 1558 PG 494

REVISIONS

8/17/99

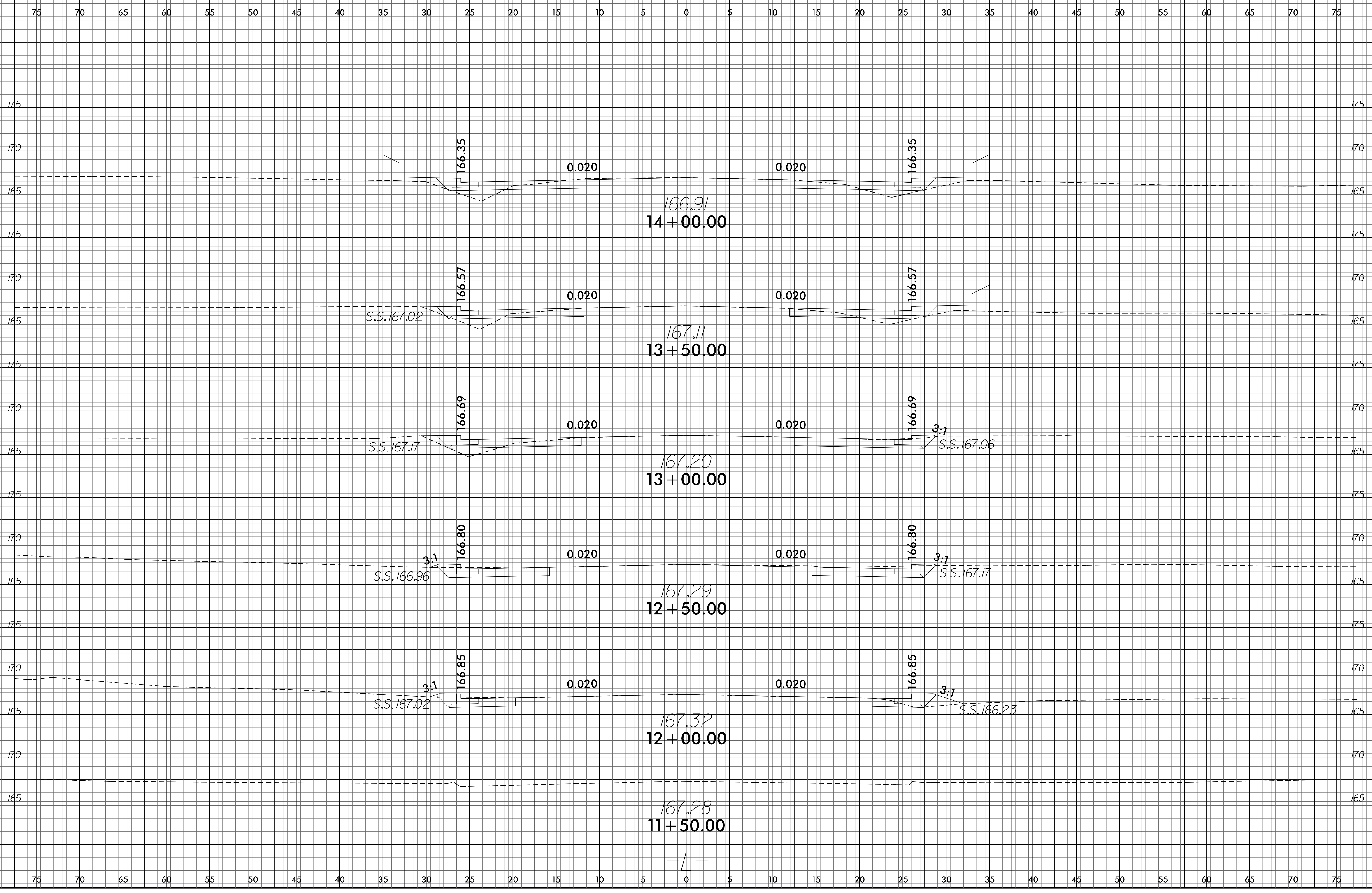
I:\016\0211\06
33838\SUBSET\MAIN\4.dgn

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

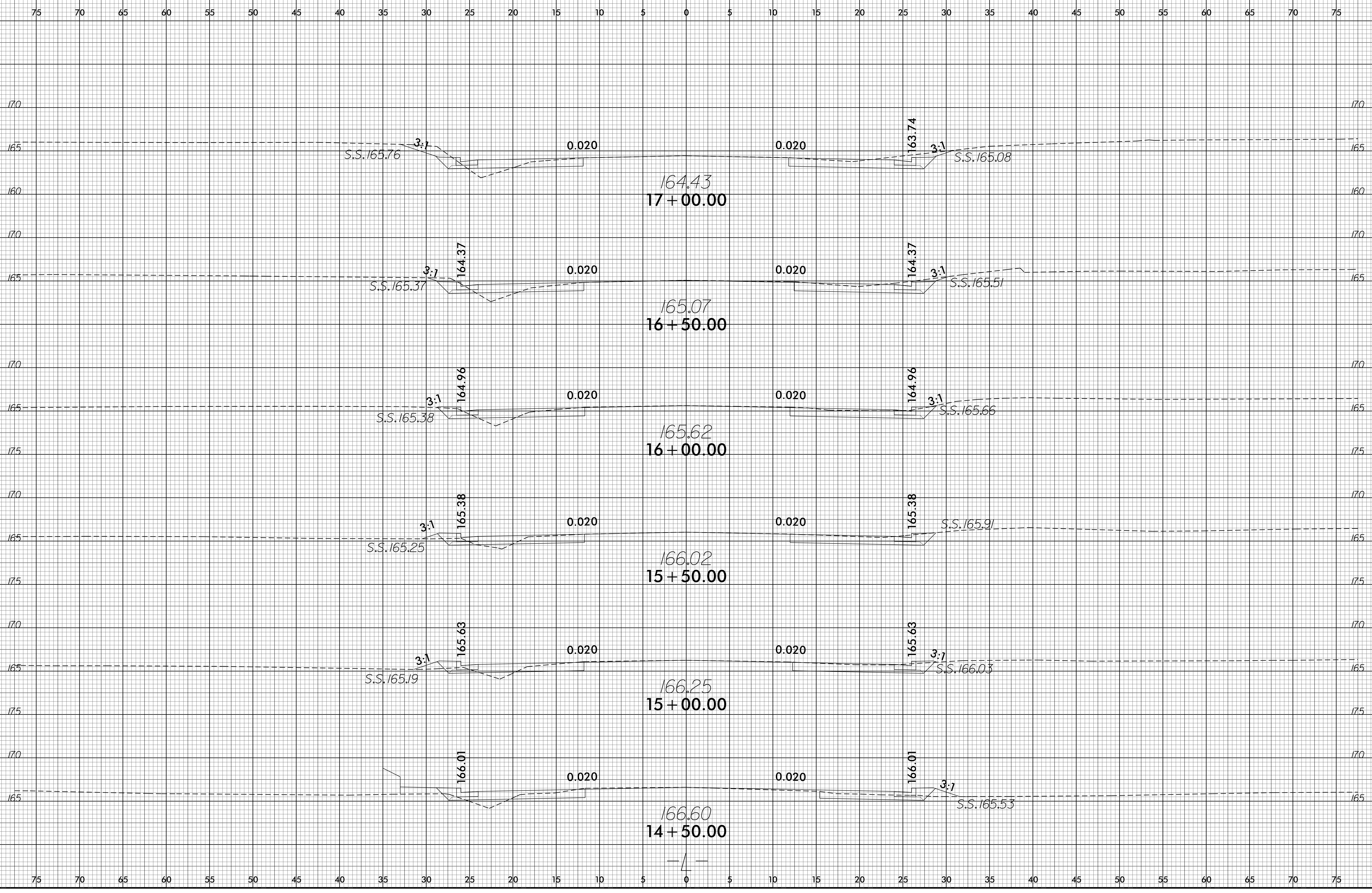
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

6/23/16



15-JUN-2021 15:14 S:\DUC\DOC\Projects\4900\Union Chapel at Rail Bridge\Fob Co\Roadway\Xsec\P-4900_Rdy_xpl.dgn

6/23/16



15-JUN-2021 15:15
P:\4900\ROUTE\SS.dgn
SSUSER\SS

