

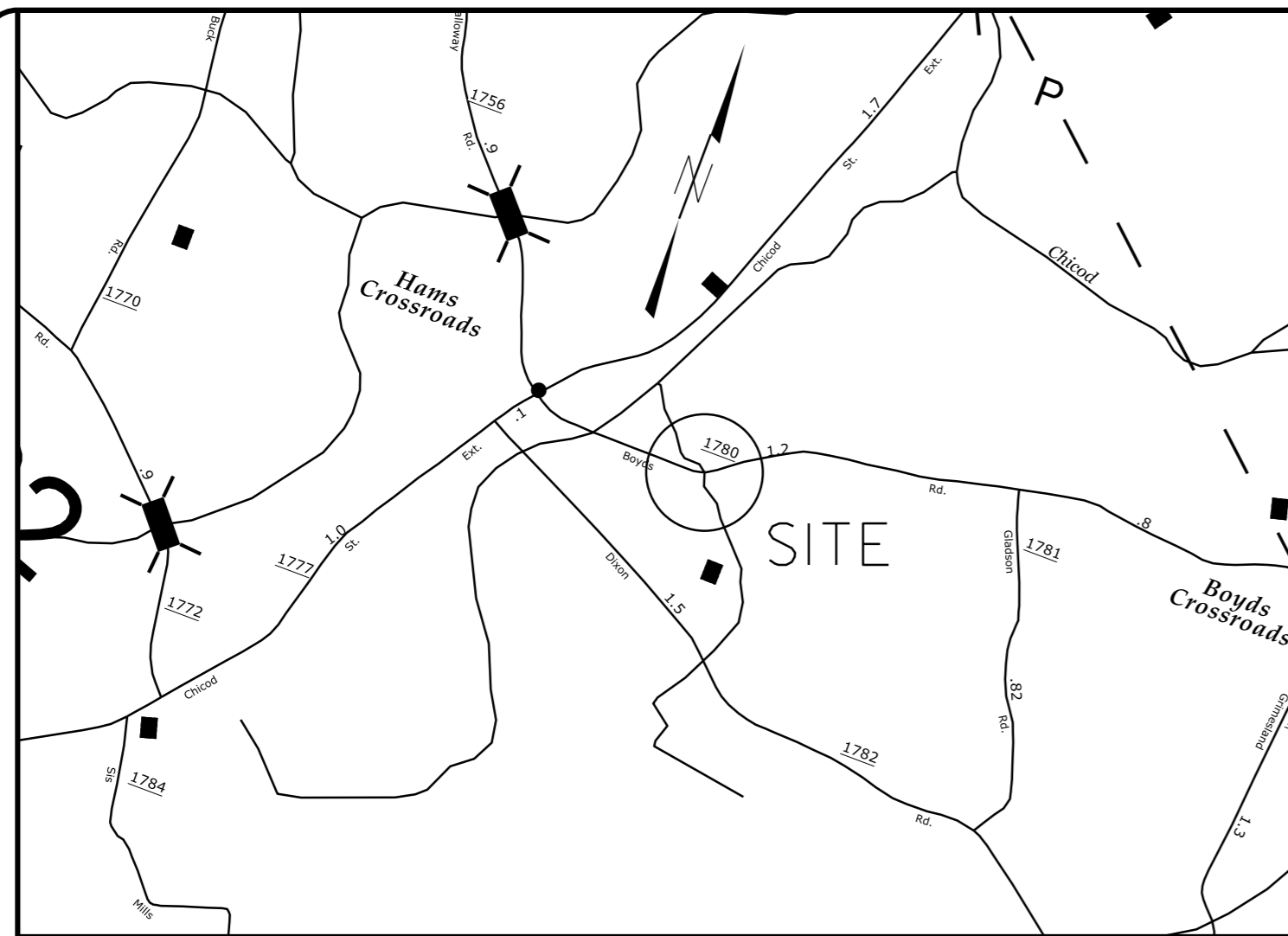
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2B.207411	1	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

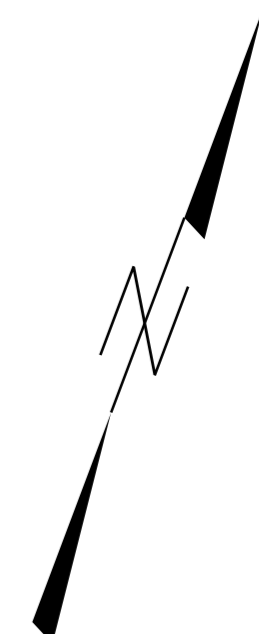
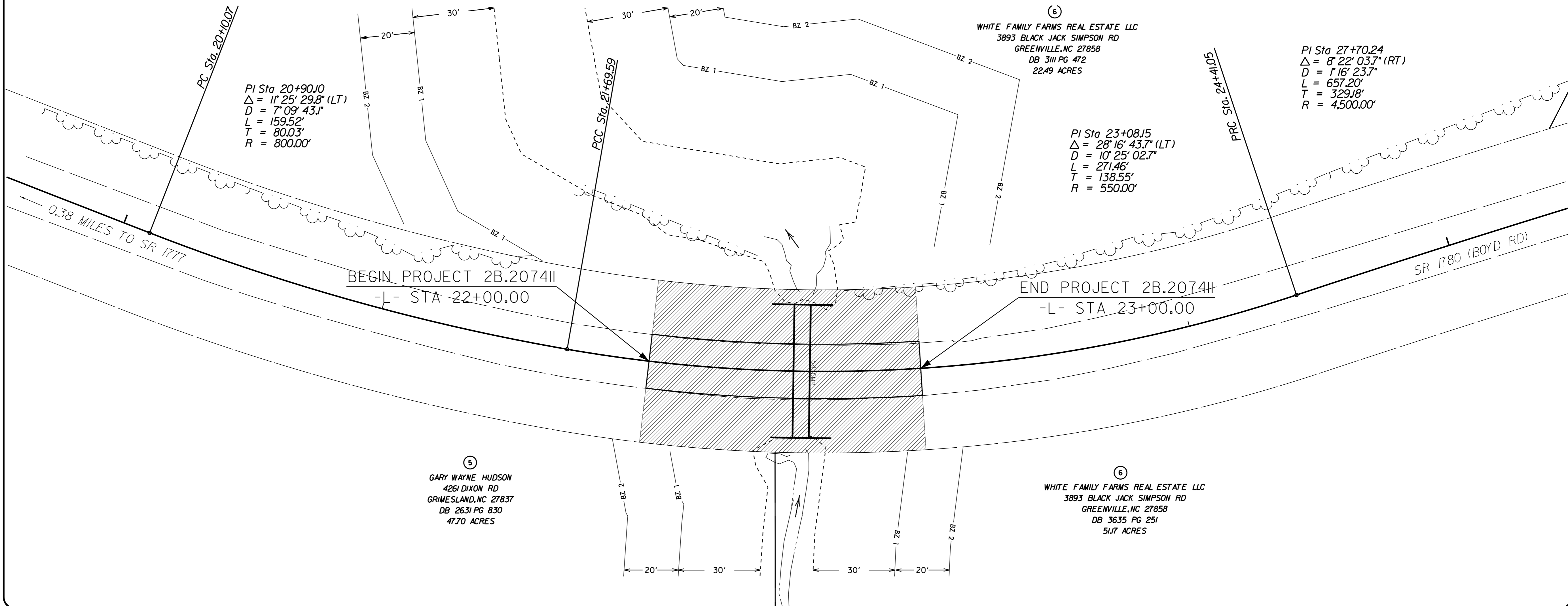
PITT COUNTY

LOCATION: SR 1780 (BOYD RD) 0.38 MILES FROM
SR 1777 (CHICOD ST. EXT.)

TYPE OF WORK: GRADING, PAVING AND DRAINAGE

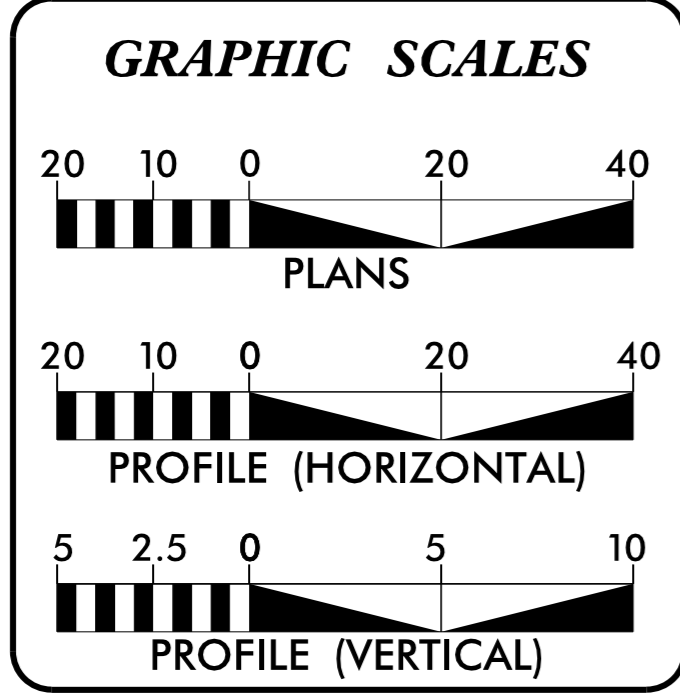


See Sheet 1A For Index of Sheets



PROJECT: 2B.207411

CONTRACT: DB00418



DESIGN DATA

ADT	=	
ADT	=	
K	=	%
D	=	%
T	=	% *
V	=	MPH
* TTST	=	DUAL
FUNC CLASS	=	

PROJECT LENGTH

LENGTH PROJECT 2B.207411 = 0.019 MILES

TIER

Prepared in the Office of:
DIVISION OF HIGHWAYS
1037 W. H. Smith Blvd. Greenville, NC 27858

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N/A

LETTING DATE:

JEFFREY D. CABANISS, PE
PROJECT ENGINEER

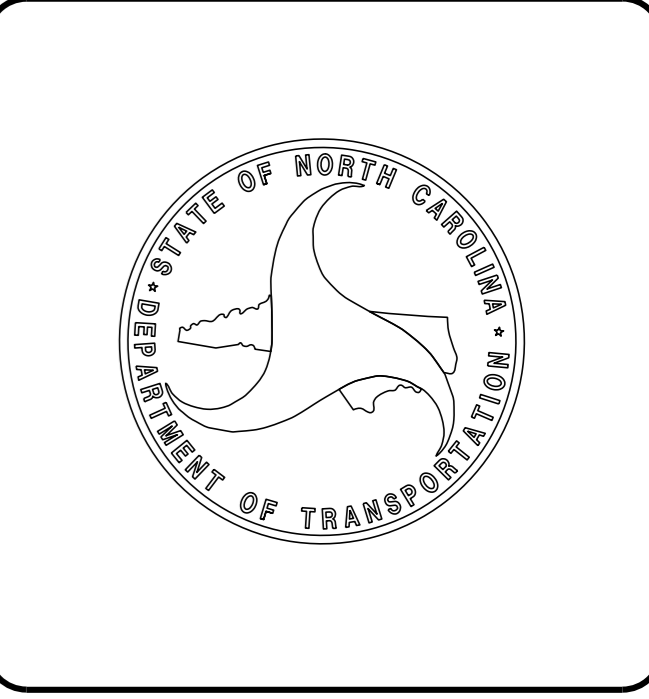
LANG JONES
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

DocuSigned by:
Jeffrey D. Cabaniss
5/11/2018 5:11 PM

ROADWAY DESIGN ENGINEER

DocuSigned by:
Jeffrey D. Cabaniss
5/11/2018 5:11 PM



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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

REVISIONS

INDEX OF SHEETS

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
3A	SUMMARY OF EARTHWORK
4	PLANSHEET
TMP1-TMP2	TRAFFIC MARKING PLANS
EC1-EC4	EROSION CONTROL
X1A	CROSS SECTION SUMMARY
X1	CROSS SECTION SHEET

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

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.

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.

UTILITIES:

OWNERS:
EASTERN PINES WATER CORP.
CENTURYLINK

2018 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 January 16, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.2	METHOD OF CLEARING - METHOD 11
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
DIVISION 16 - EROSION CONTROL	
1605.01	TEMPORARY SILT FENCE

8/17/99

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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	○
Computed Property Corner	→
Property Monument	EDM
Parcel/Sequence Number	(23)
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	○
Well	○
Small Mine	⊗
Foundation	□
Area Outline	□
Cemetery	+
Building	□
School	□
Church	□
Dam	▬

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	JS
Buffer Zone 1	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	CSX TRANSPORTATION MILEPOST 35
Switch	SWITCH
RR Abandoned	-----
RR Dismantled	-----

Note: Not to Scale *S.U.E. = Subsurface Utility Engineering

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	T T T
Proposed Guardrail	T T T
Existing Cable Guiderail	□ □ □
Proposed Cable Guiderail	□ □ □
Equality Symbol	⊕
Pavement Removal	⊗

VEGETATION:

Single Tree	☼
Single Shrub	☼

Hedge	-----
Woods Line	-----
Orchard	☼ ☼ ☼ ☼
Vineyard	Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊕
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.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

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.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

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.*)	-----
U/G TV Cable LOS C (S.U.E.*)	-----
U/G TV Cable LOS D (S.U.E.*)	-----
U/G Fiber Optic Cable LOS B (S.U.E.*)	-----
U/G Fiber Optic Cable LOS C (S.U.E.*)	-----
U/G Fiber Optic Cable LOS D (S.U.E.*)	-----

GAS:

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

SANITARY SEWER:

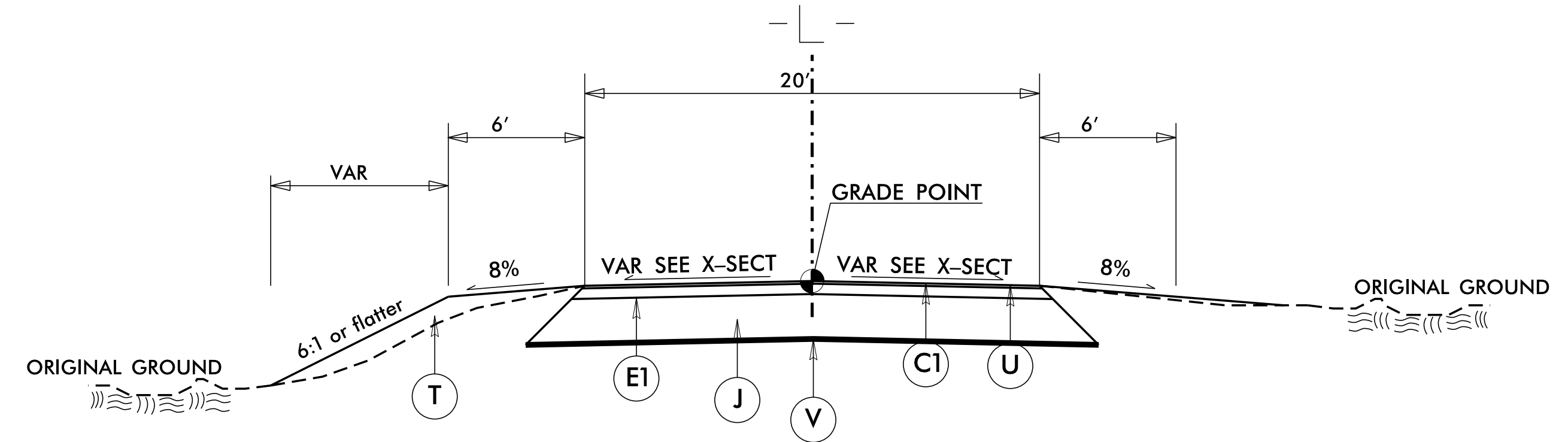
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

MISCELLANEOUS:

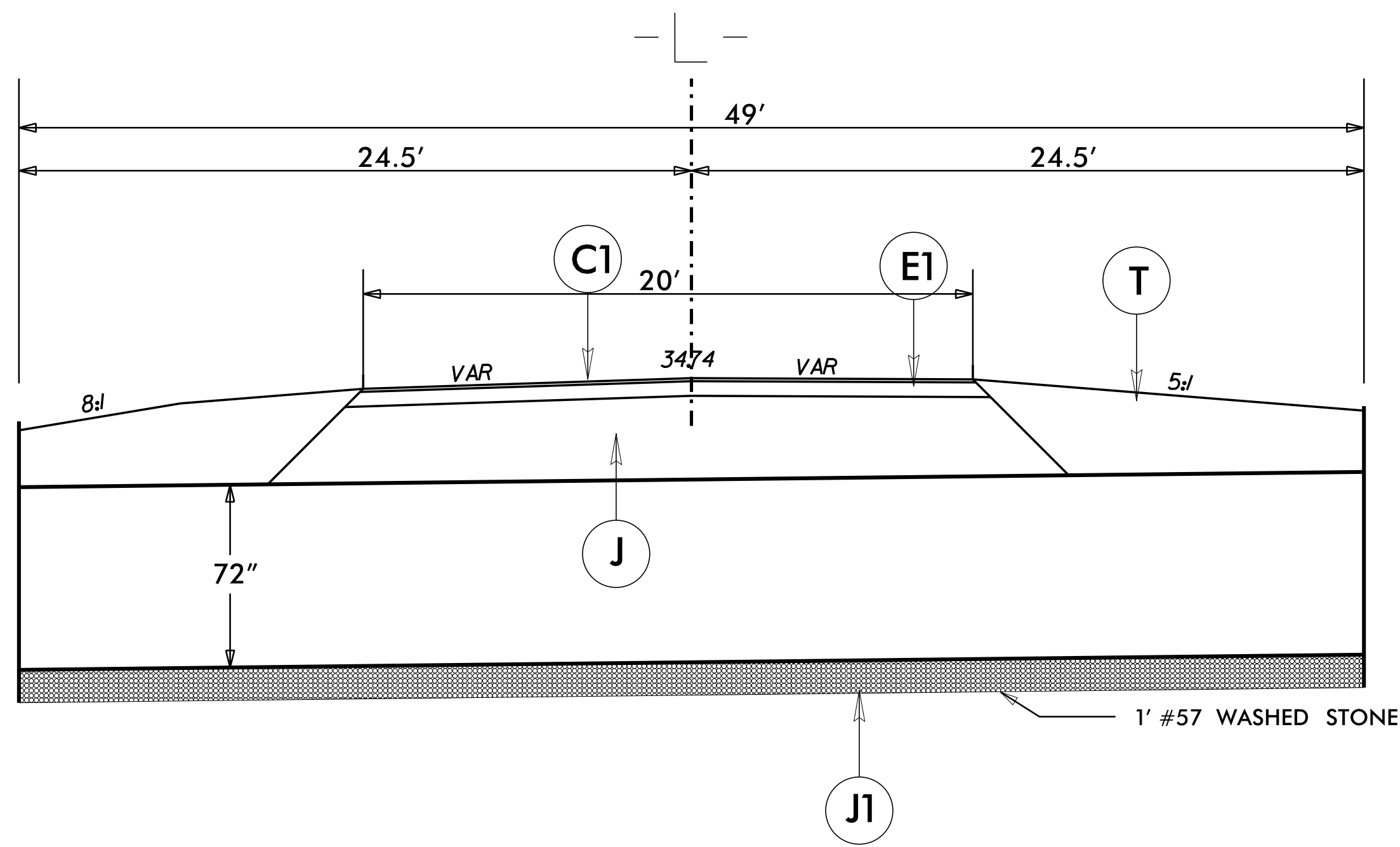
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	UST
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)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

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
J	VARIABLE DEPTH AGGREGATE BASE COURSE
J1	#57 WASHED STONE
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V	GEOTEXTILE FOR SOIL STABILIZATION

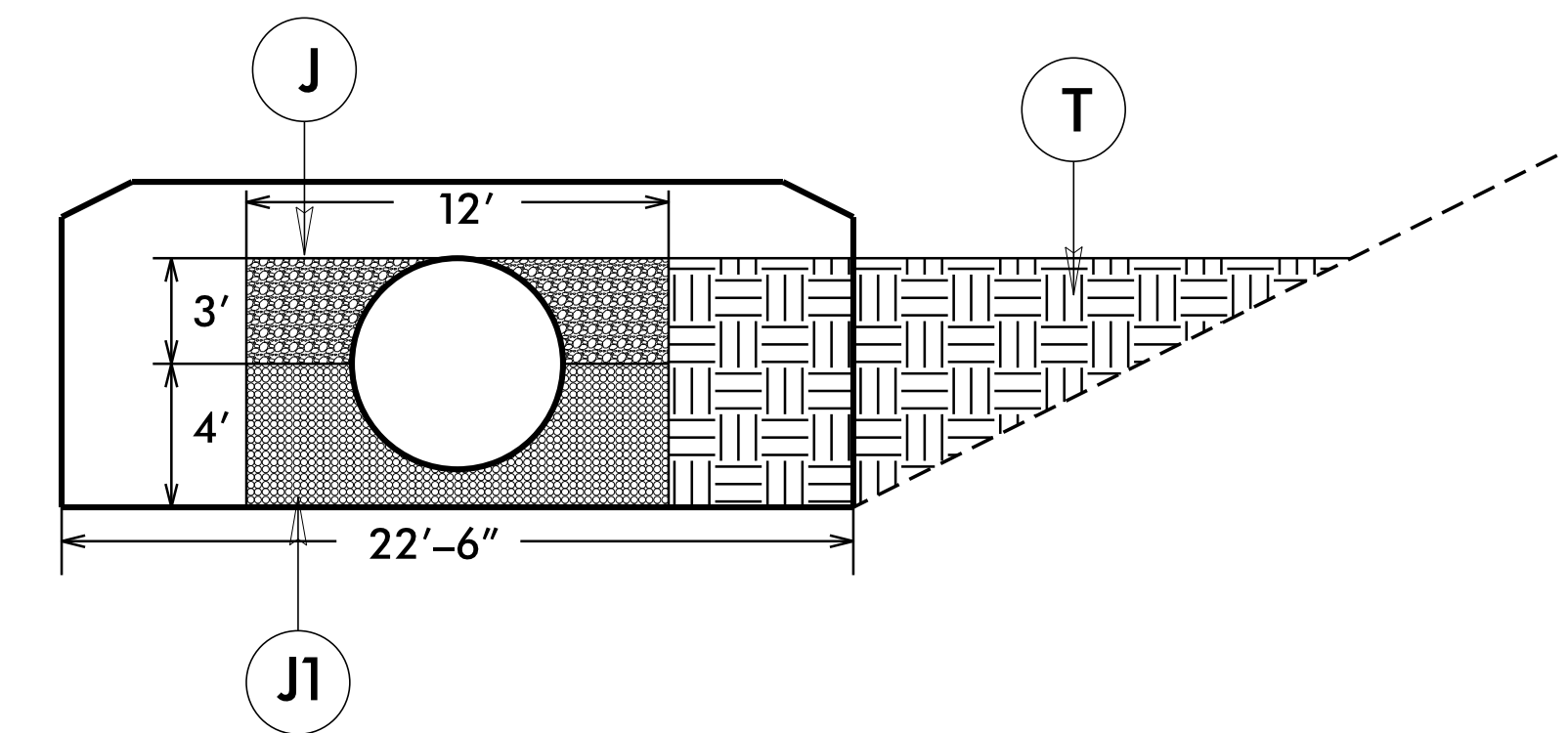
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



USE TYPICAL SECTION #1
-L- 22+00 TO 23+00



SIDE VIEW
-L- 22+56.22



END VIEW
-L- 22+56.22

REVISIONS

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

ITEM	SECT	QUANTITY	UNIT	ITEM DESCRIPTION
1	800	1	LS	MOBILIZATION
2	801	1	LS	CONSTRUCTION SURVEYING
3	226	1	LS	GRADING
4	305	120	LF	18" DRAINAGE PIPE
5	340	140	LF	PIPE REMOVAL
6	SP	1	LS	72" ALUMINUM PIPE WITH HEADWALLS
7	500	150	TON	*57 STONE
8	SP	270	SY	GEOTEXTILE FOR PAVEMENT STABILIZATION
9	520	500	TON	AGGREGATE BASE COURSE
10	610	70	TON	ASPHALT CONC BASE COURSE,TYPE B25.0C
11	610	20	TON	ASPHALT CONC SURFACE COURSE,TYPE S9.5B
12	620	6	TON	ASPHALT BINDER FOR PLANT MIX
13	876	200	SY	GEOTEXTILE FOR DRAINAGE
14	1605	200	LF	TEMPORARY SILT FENCE
15	1660	0.5	ACRE	SEEDING AND MULCHING
16	1661	50	LB	SEED FOR REPAIR SEEDING
17	1661	0.2	TON	FERTILIZER FOR REPAIR SEEDING
18	SP	50	LF	WATTLE
19	SP	2	LB	POLYACRYLAMIDE (PAM)
20	SP	100	LF	IMPERVIOUS DIKE
21	SP	3	EA	RESPONSE FOR EROSION CONTROL
22	SP	1	LS	DEWATERING

REVISIONS

8/17/99

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC.

STATION	LOCATION (L, RT, OR CL)	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE 1R OR HDPE PIPE, TYPE S OR D													10 GA. 3" X 1" CORR. ALUM. PIPE WITH 2" WIDE BANDS AND 2' FLAT GASKETS	REMARKS
		FROM	TO					15"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	18"		
-L- 22+25.21	LT	1			32.00	31.00		48											48			
-L- 22+33.99	RT	2			31.00	30.00		40											40			
-L- 22+56.22	CL	3			25.50	24.50													49'			
-L- 22+75.12	LT	4																	20	PIPE REMOVAL		
-L- 22+74.62	RT	5			31.00	30.00		32											32			
TOTALS								120											140	49'		

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

**SUMMARY OF EARTHWORK
IN CUBIC YARDS**

LOCATION	UNCLASSIFIED EXCAVATION	STRUCTURE EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
-L- 22+00.00 - 23+00.00	58	907	0	4	0	200
SUB TOTAL	58	907	0	4	0	200
SAY	60	910	0	5	0	200

**PAVEMENT REMOVAL SUMMARY
IN SQUARE YARDS**

LINE	STATION - STATION	LOCATION	REMOVAL (SY)
-L-	22+00.00 - 23+00.00	CL	223
TOTAL			223
SAY			225

NOTE:

APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, UNCLASSIFIED STRUCTURE EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING AND REMOVAL OF EXISTING PAVEMENT.

REVISIONS

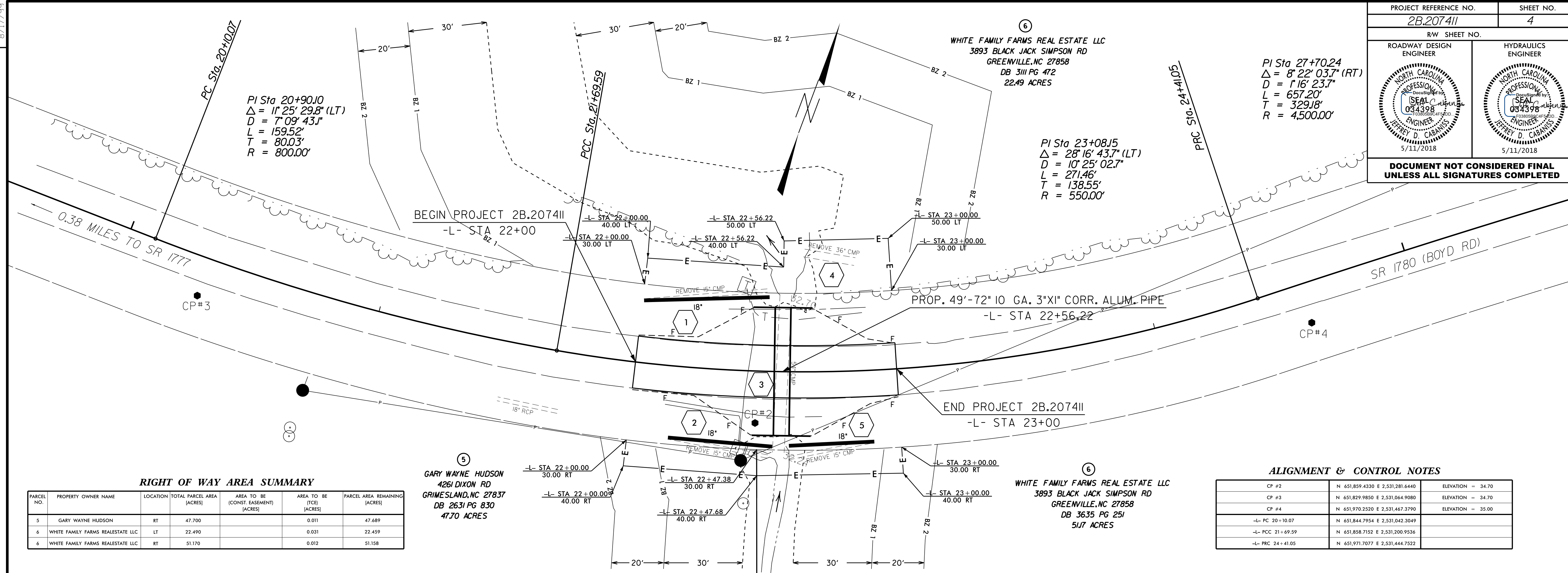
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PI Sta 27+70.24
 $\Delta = 8' 22" 03.7" (RT)$
 $D = 1' 16" 23.7"$
 $L = 657.20'$
 $T = 329.18'$
 $R = 4,500.00'$

PI Sta 23+08.15
 $\Delta = 28' 16' 43.7" (LT)$
 $D = 10' 25' 02.7"$
 $L = 271.46'$
 $T = 138.55'$
 $R = 550.00'$

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



RIGHT OF WAY AREA SUMMARY

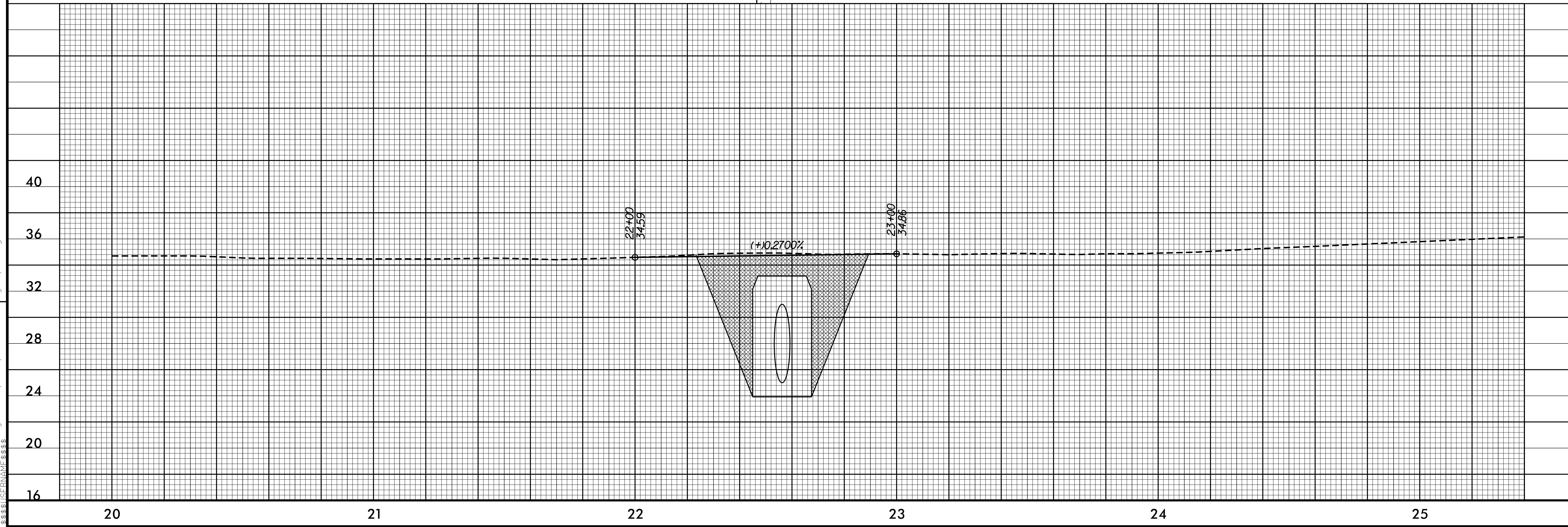
PARCEL NO.	PROPERTY OWNER NAME	LOCATION	TOTAL PARCEL AREA (ACRES)	AREA TO BE (CONST. EASEMENT) (ACRES)	AREA TO BE (TCE) (ACRES)	PARCEL AREA REMAINING (ACRES)
5	GARY WAYNE HUDSON	RT	47.700	0.011	0.011	47.689
6	WHITE FAMILY FARMS REAL ESTATE LLC	LT	22.490		0.031	22.459
6	WHITE FAMILY FARMS REAL ESTATE LLC	RT	51.170		0.012	51.158

5
GARY WAYNE HUDSON
 4261 DIXON RD
 GRIMESLAND, NC 27837
 DB 2631 PG 830
 47.70 ACRES

6
WHITE FAMILY FARMS REAL ESTATE LLC
 3893 BLACK JACK SIMPSON RD
 GREENVILLE, NC 27858
 DB 3635 PG 251
 51.17 ACRES

ALIGNMENT & CONTROL NOTES

CP #2	N 651,859.4330 E 2,531,281.6440	ELEVATION = 34.70
CP #3	N 651,829.9850 E 2,531,064.9080	ELEVATION = 34.70
CP #4	N 651,970.2520 E 2,531,467.3790	ELEVATION = 35.00
-L- PC 20+10.07	N 651,844.7954 E 2,531,042.3049	
-L- PCC 21+69.59	N 651,858.7152 E 2,531,200.9538	
-L- PRC 24+41.05	N 651,971.7077 E 2,531,444.7522	



REVISIONS

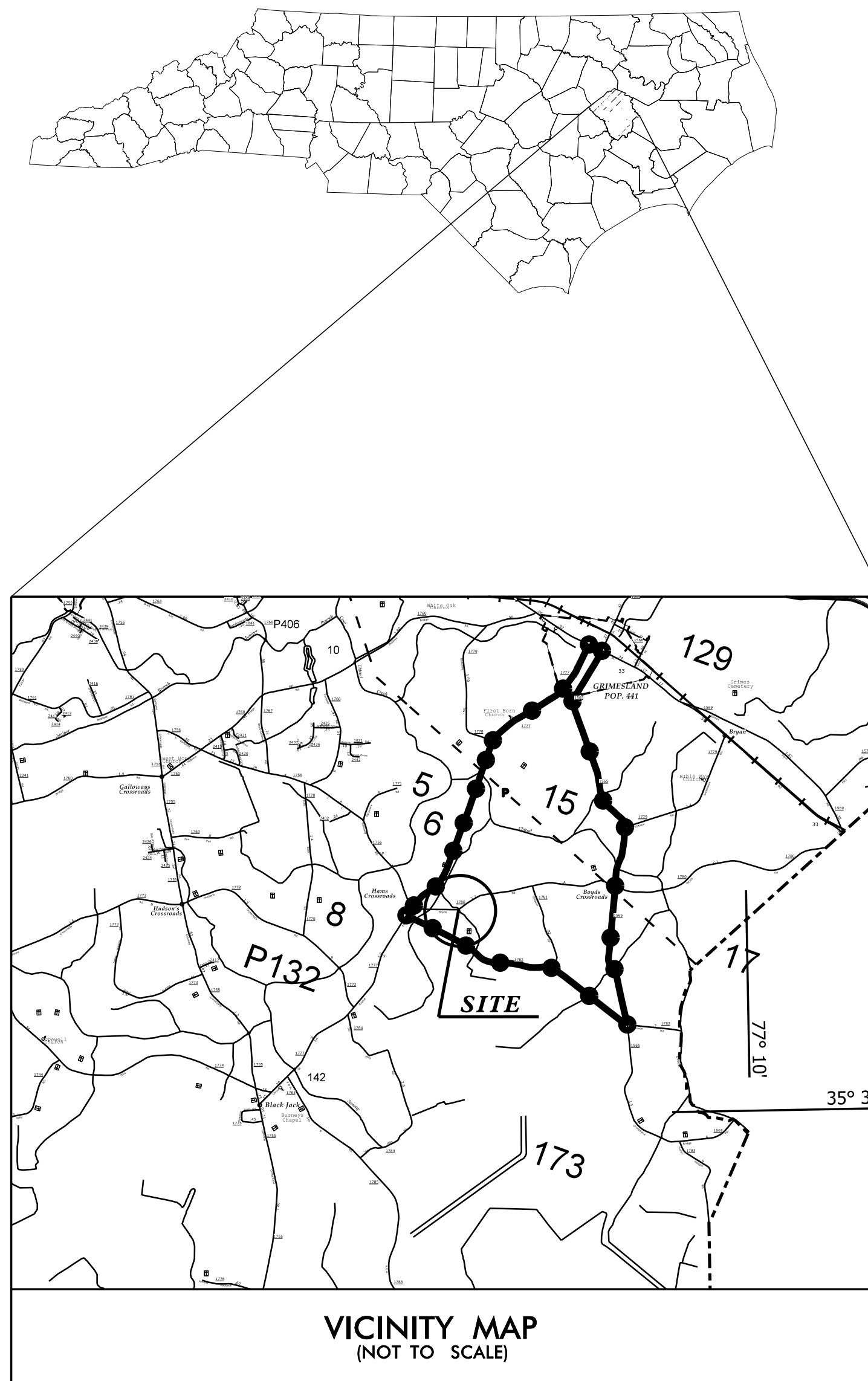
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 5:58:50 PM JEFFREY D. CABANIS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

PITT COUNTY



INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET WITH VICINITY MAP & INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND.
TMP-2	PROJECT NOTES, DETOUR AND PLANS.

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
1101.03 (SHT. 1 OF 9)	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES (TYPE III)

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- NORTH ARROW
- PROPOSED PVMT.
- EXIST. PVMT.
- WORK AREA

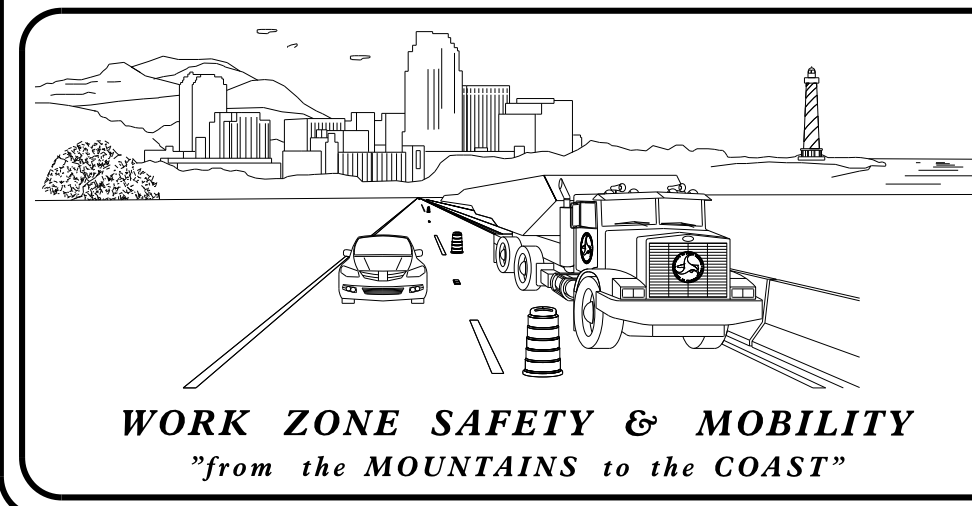
TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)

SHEET NO.
TMP-1

2B.207411

STATE PROJECT:



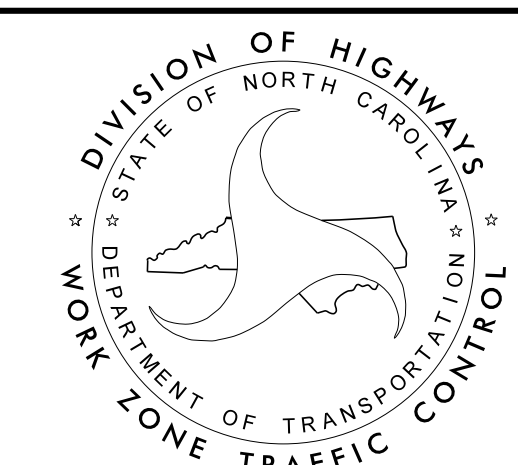
N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1037 WH SMITH BLVD, GREENVILLE, NC 27834
PHONE: (252) 439-2840 FAX: (252) 830-3352

JEFFREY D, CABANISS, PE **TRAFFIC ENGINEER**

JEFFREY D, CABANISS, PE **TRAFFIC CONTROL PROJECT ENGINEER**

LANG JONES **TRAFFIC CONTROL PROJECT DESIGN ENGINEER**

LANG JONES **TRAFFIC CONTROL DESIGN ENGINEER**



APPROVED:
DATE: 5/13/2018

SEAL

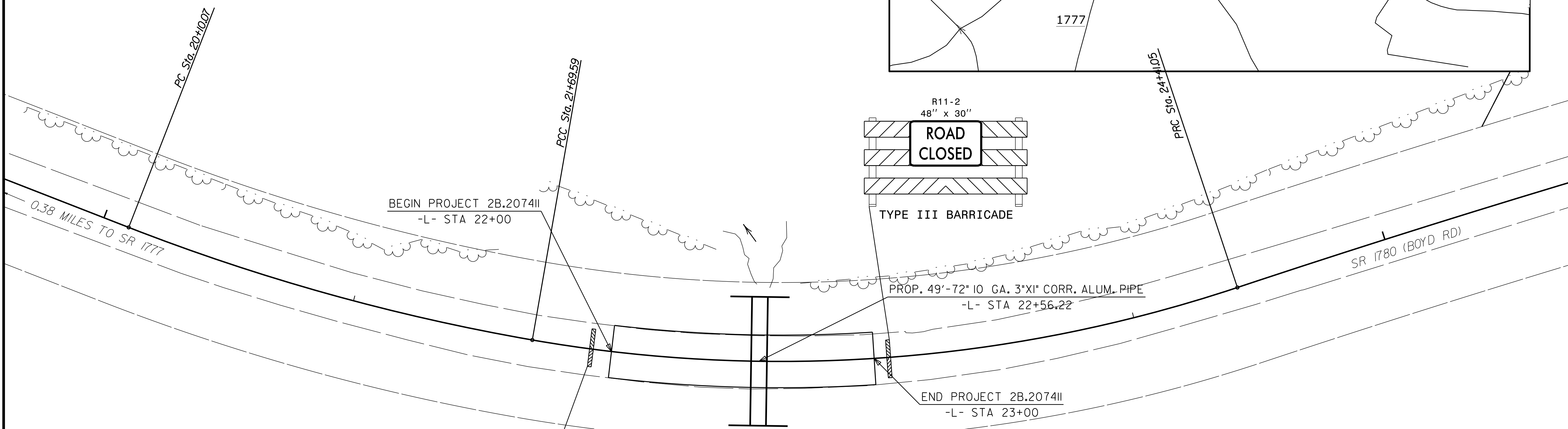
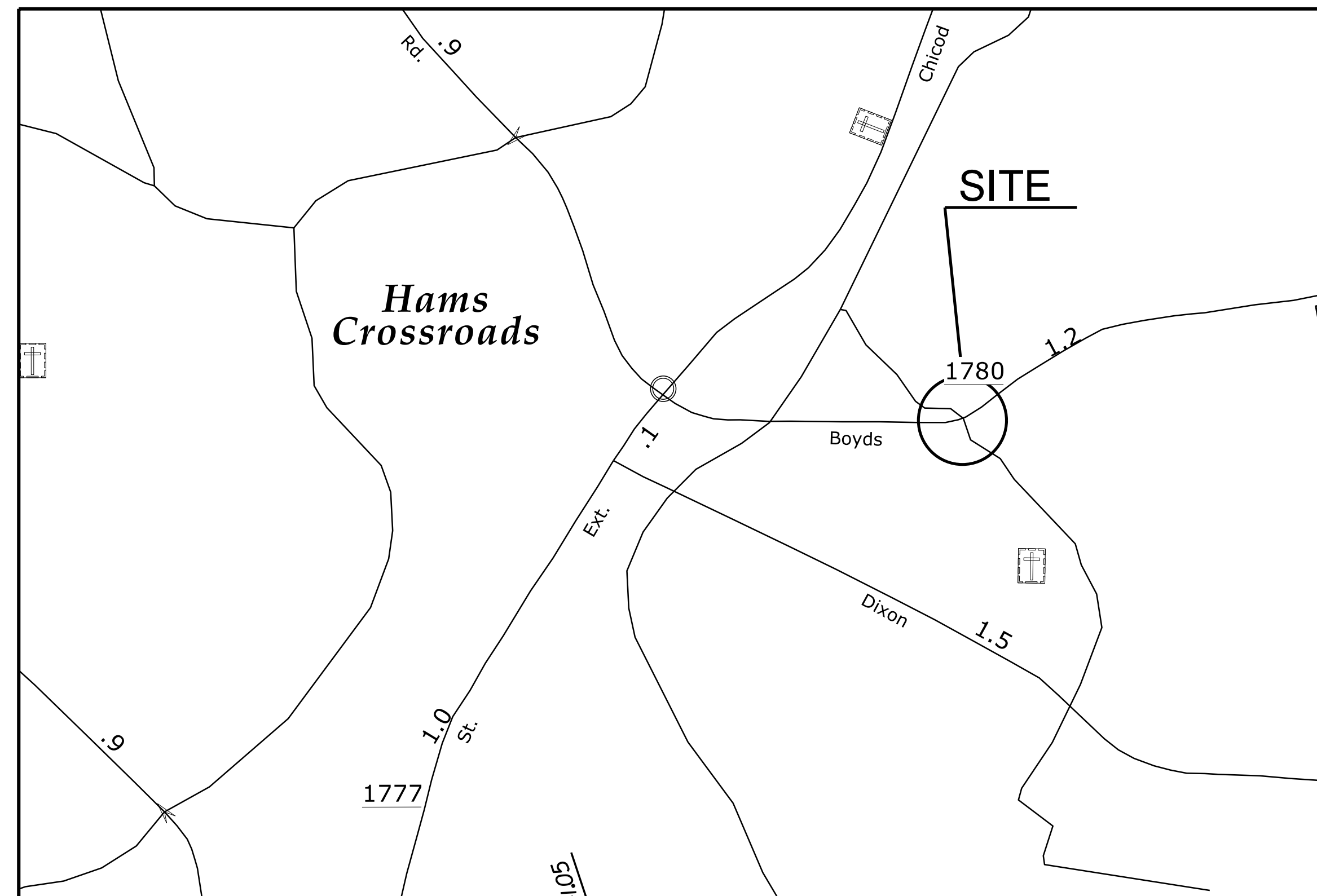
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GENERAL NOTES

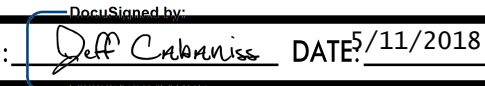
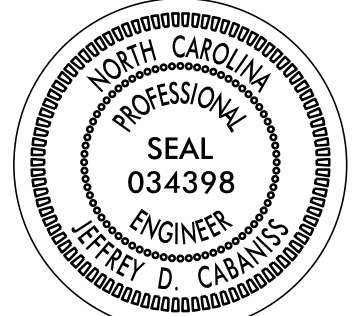
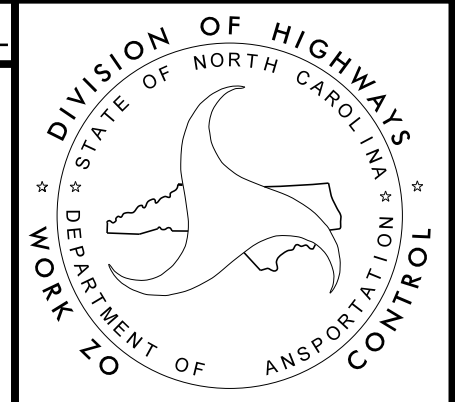

IMPLEMENT TRAFFIC CONTROL IN ACCORDANCE WITH THE ROADWAY STANDARD DRAWINGS LISTED ON TMP-1.

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 UNDESIRED 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 JEFFREY DUNNING AT 252-830-3493 FOR COORDINATION.



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APPROVED:  DATE: 5/11/2018			
SEAL			

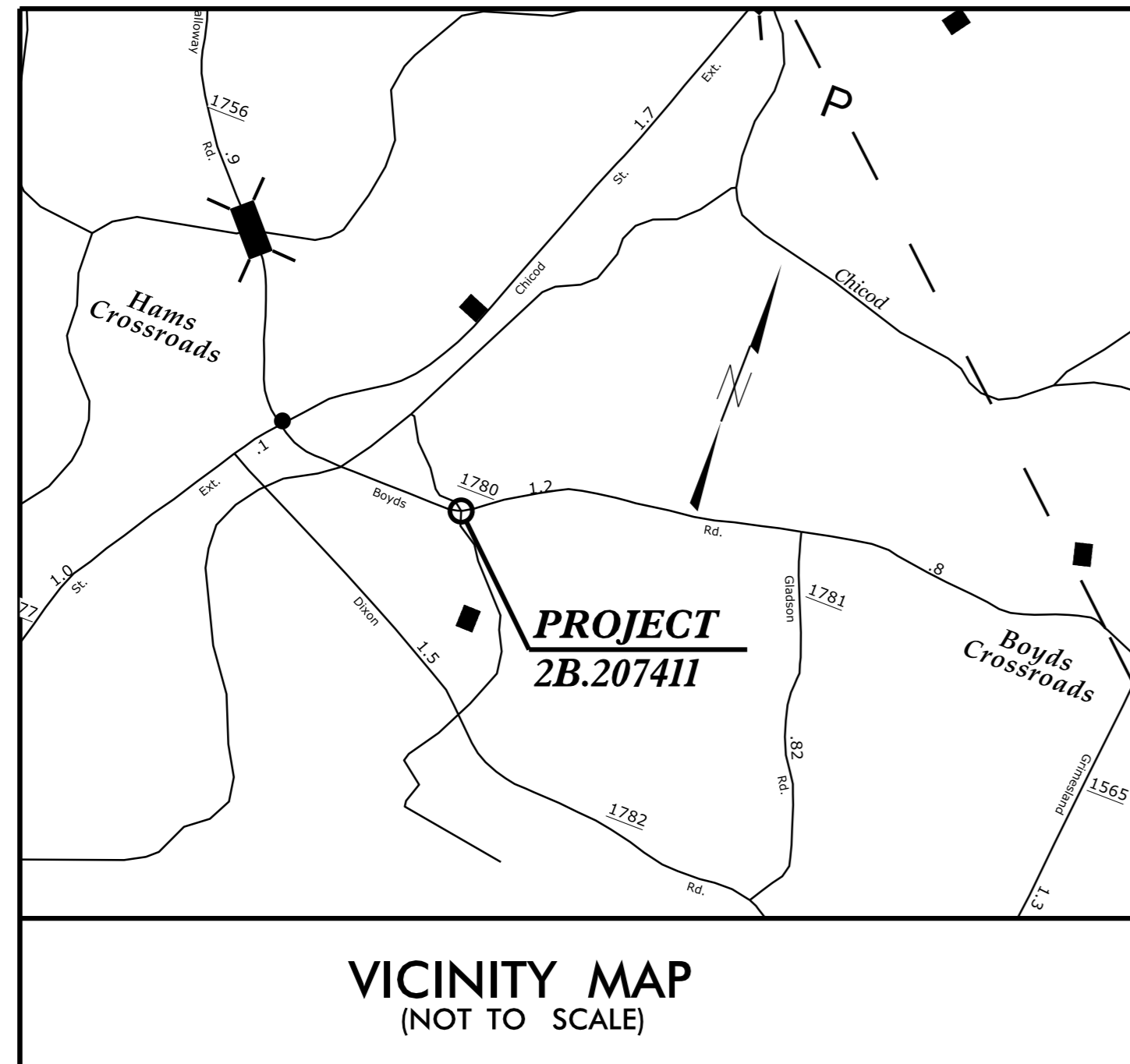
PROJECT: 2B.207411

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
**PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL**

PITT COUNTY

**LOCATION: SR 1780 (BOYD'S RD) 0.38 MILES FROM
SR 1777 (CHICOD ST. EXT.)**

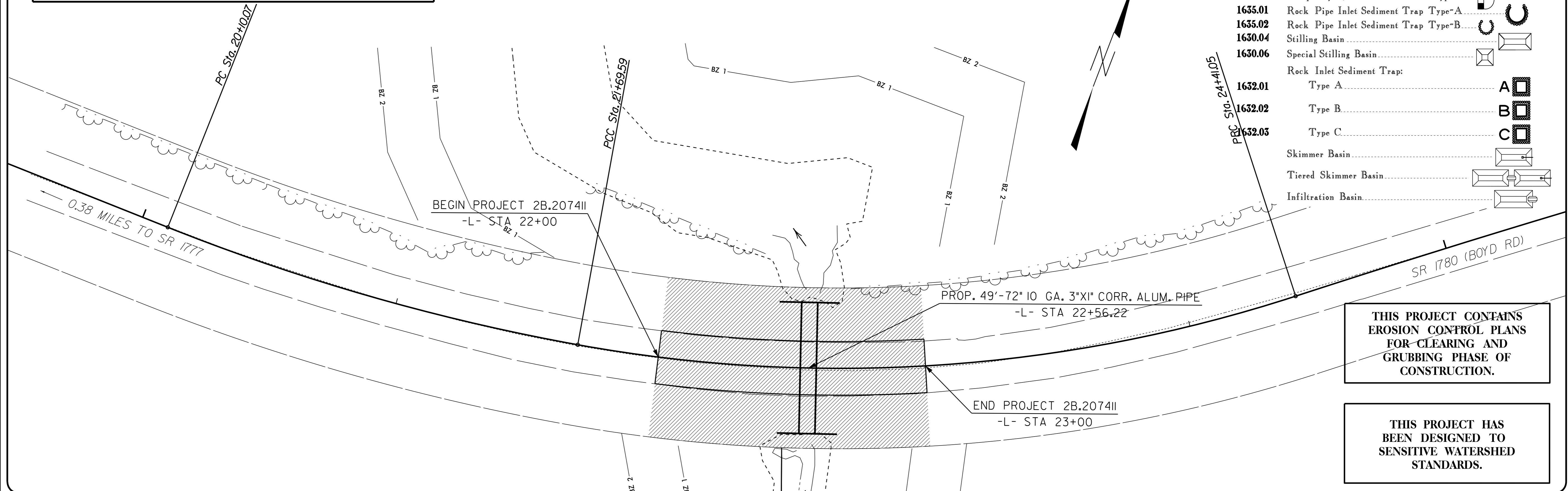
TYPE OF WORK: GRADING, PAVING AND DRAINAGE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2B.207411	EC-1	4
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

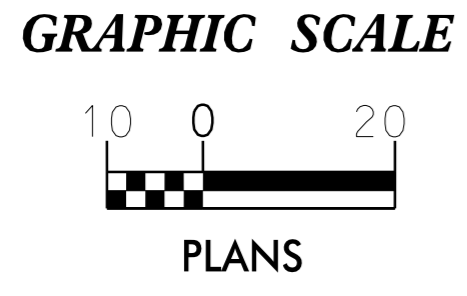
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	RS
1633.02	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	RS
1633.02	Temporary Rock Silt Check Type-B	RS
1633.02	Wattle / Coir Fiber Wattle	W
1633.02	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	W
1634.01	Temporary Rock Sediment Dam Type-A	RD
1634.02	Temporary Rock Sediment Dam Type-B	RD
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPI
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPI
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SB
Rock Inlet Sediment Trap:		
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SK
	Tiered Skimmer Basin	SK
	Infiltration Basin	IB

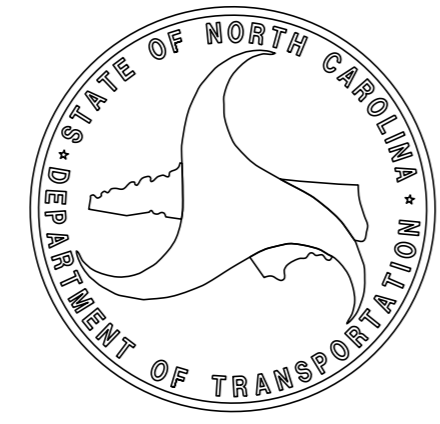


**THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**



DIVISION TWO DDC UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



**THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND
NATURAL RESOURCES DIVISION OF WATER QUALITY.**

2018 STANDARD SPECIFICATIONS

Prepared In the Office of:
DIVISION 2 DDC
1037 WH SMITH BLVD
GREENVILLE, NC 27834

Timothy Pinkham
Level III
Certification #3510

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 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

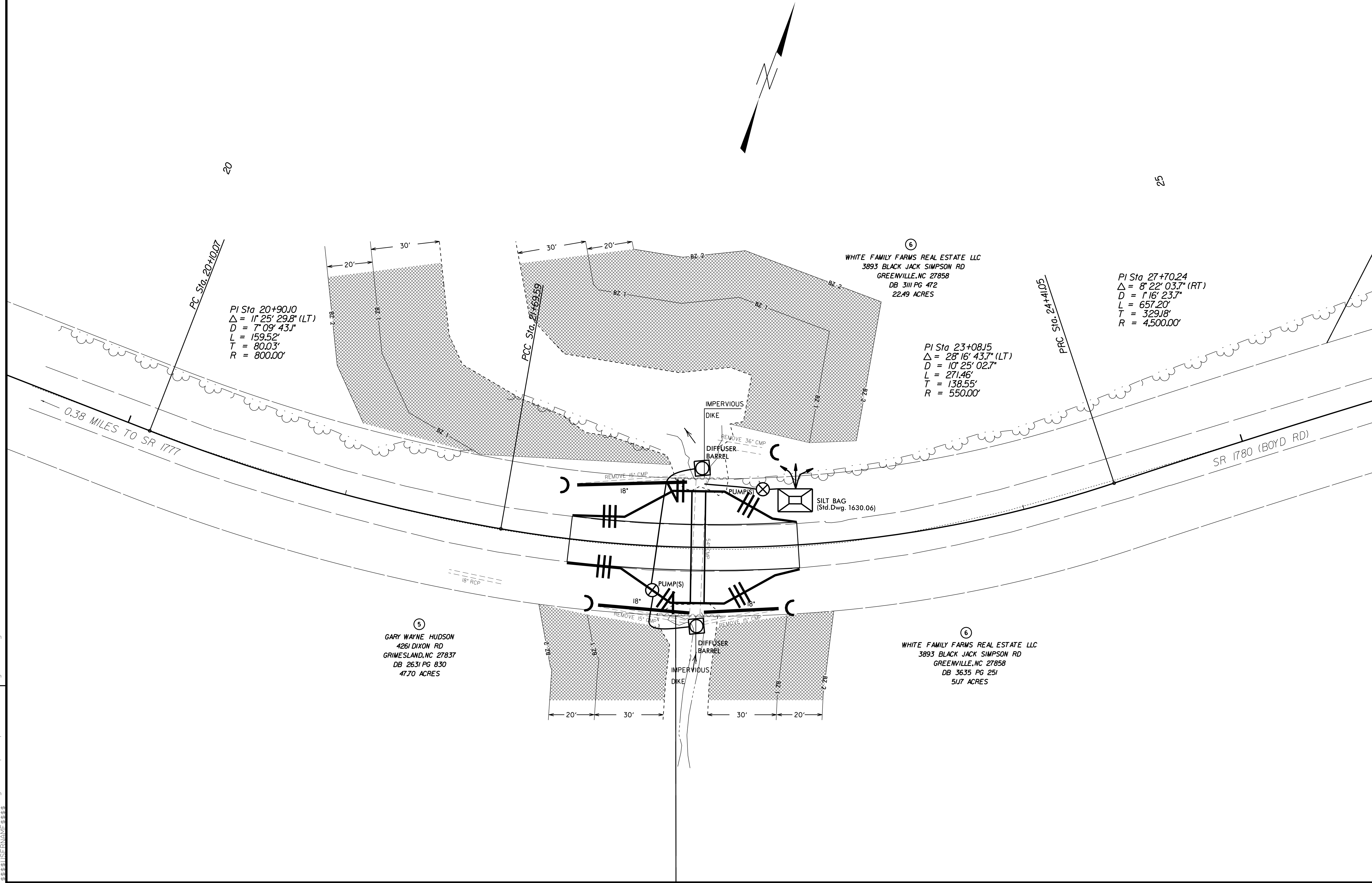
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

08-MAY-2018 09:18 PROJECTS\SR1777\BOYD\2B.207411\Replacements\Boyd2.ec1.dgn

8/17/99

REVISIONS

08-MAY-2018 09:18:18 \Boyd Rd Pipe Replacements\Boyd2.ec2.dgn
 3:58:58 USER:GARYWAYNE



20

25

PI Sta 20+90.10
 $\Delta = 11' 25' 29.8''$ (LT)
 $D = 7' 09' 43.1''$
 $L = 159.52'$
 $T = 80.03'$
 $R = 800.00'$

⑥
 WHITE FAMILY FARMS REAL ESTATE LLC
 3893 BLACK JACK SIMPSON RD
 GREENVILLE, NC 27858
 DB 3111 PG 472
 22.49 ACRES

PI Sta 27+70.24
 $\Delta = 8' 22' 03.7''$ (RT)
 $D = 1' 16' 23.7''$
 $L = 657.20'$
 $T = 329.18'$
 $R = 4500.00'$

PI Sta 23+08.15
 $\Delta = 28' 16' 43.7''$ (LT)
 $D = 10' 25' 02.7''$
 $L = 271.46'$
 $T = 138.55'$
 $R = 550.00'$

⑤
 GARY WAYNE HUDSON
 4261 DIXON RD
 GRIMESLAND, NC 27837
 DB 2631 PG 830
 47.70 ACRES

⑥
 WHITE FAMILY FARMS REAL ESTATE LLC
 3893 BLACK JACK SIMPSON RD
 GREENVILLE, NC 27858
 DB 3635 PG 251
 5.17 ACRES

0.58 MILES TO SR 1777

SR 1780 (BOYD RD)

IMPERVIOUS DIKE

SILT BAG
 (Std. Dwg. 1630.06)

PUMP(S)

IMPERVIOUS DIKE

REMOVE 36" CMP
 DIFFUSER BARREL

REMOVE 18" CMP

REMOVE 15" CMP

REMOVE 15" CMP

REMOVE 15" CMP

PCC Sta. 21+69.59

PRC Sta. 24+41.05

PC Sta. 20+10.07

BZ. 2

BZ. 1

BZ. 2

BZ. 1

BZ. 2

BZ. 1

BZ. 2

BZ. 1

BZ. 2

BZ. 1

BZ. 2

20'

30'

30'

20'

20'

30'

30'

20'

30'

20'

30'

20'

30'

18" RCP

18"

18"

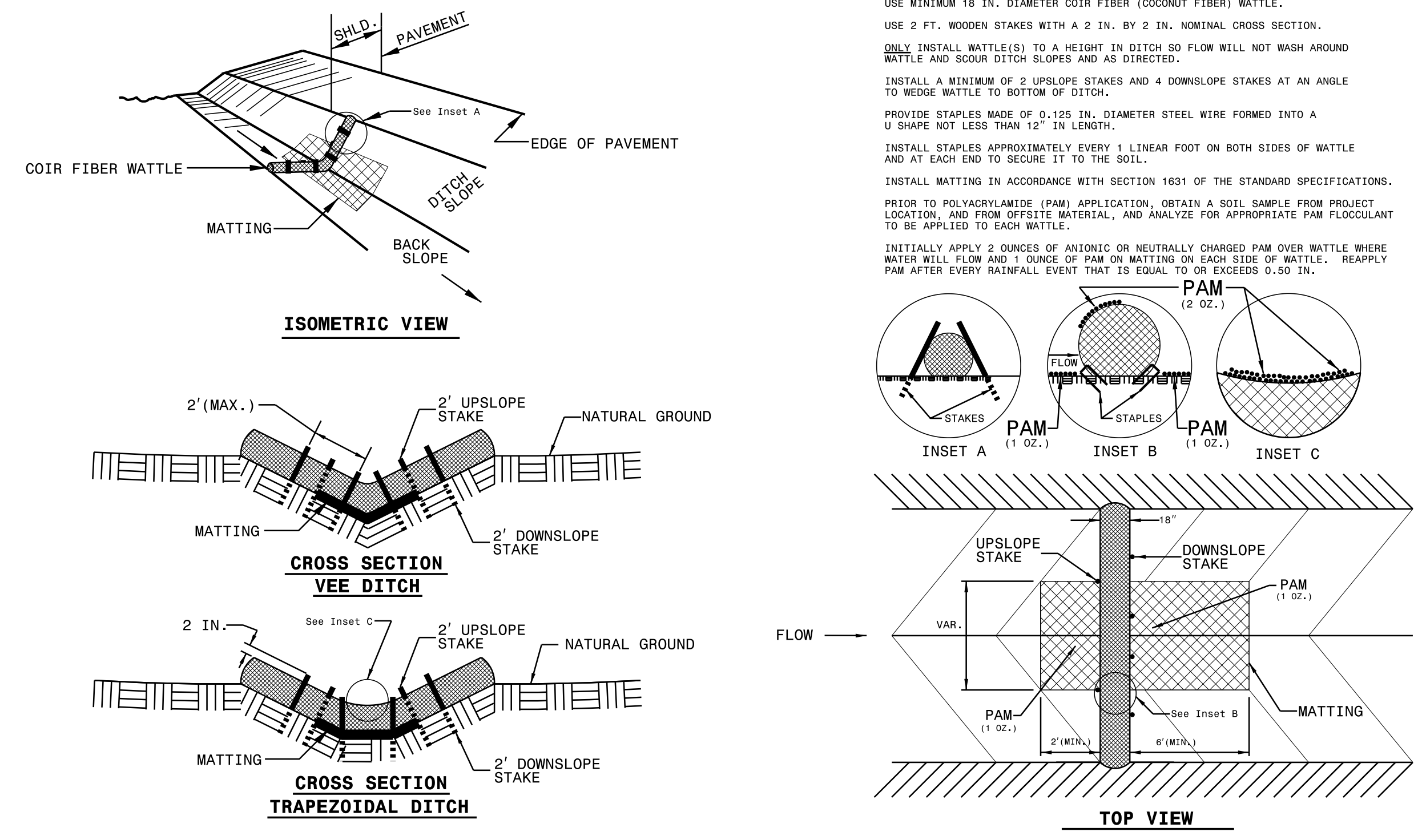
18"

18"

18"

18"

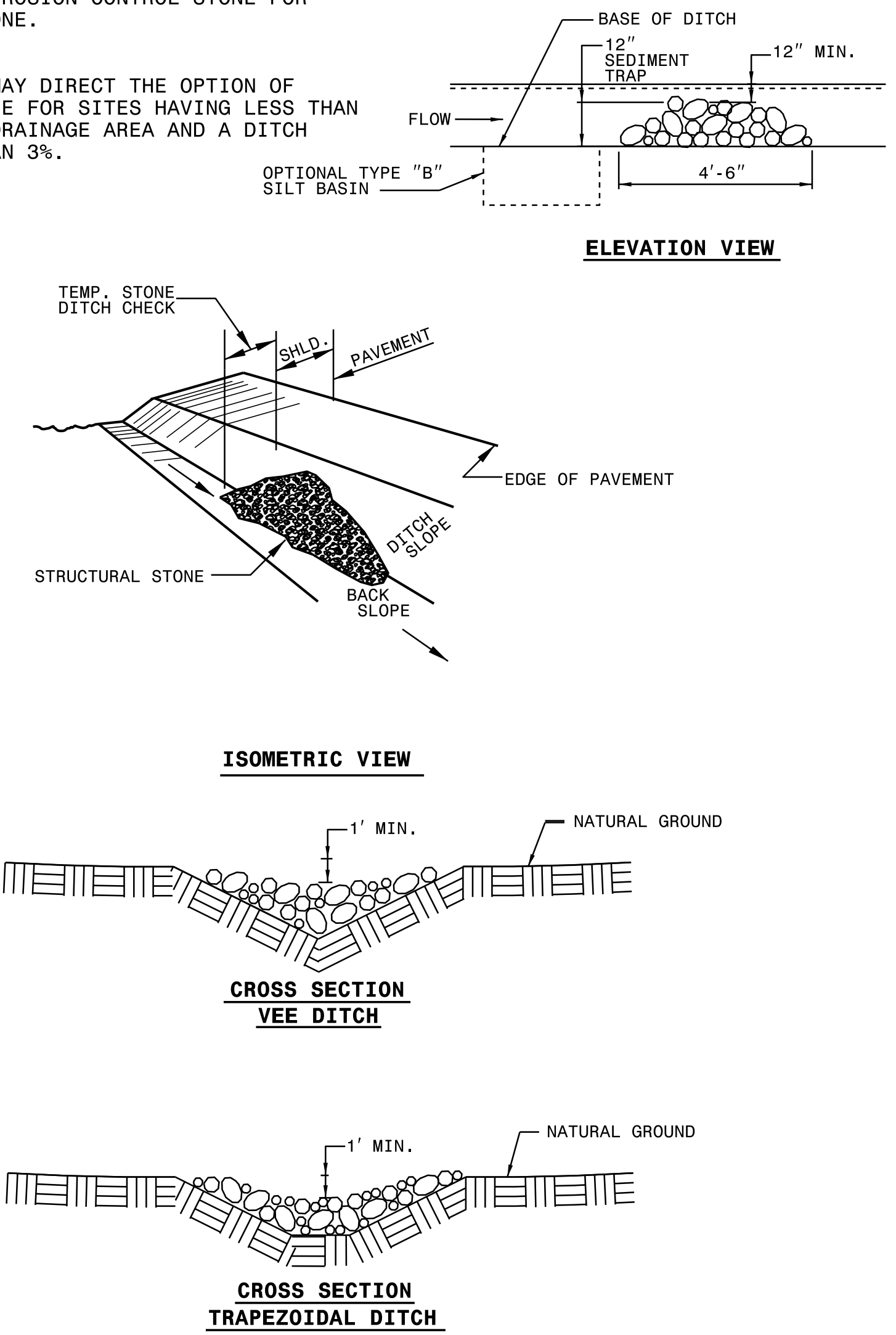
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



NOTES:
 USE MINIMUM 18 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
 USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
 PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
 PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
 INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

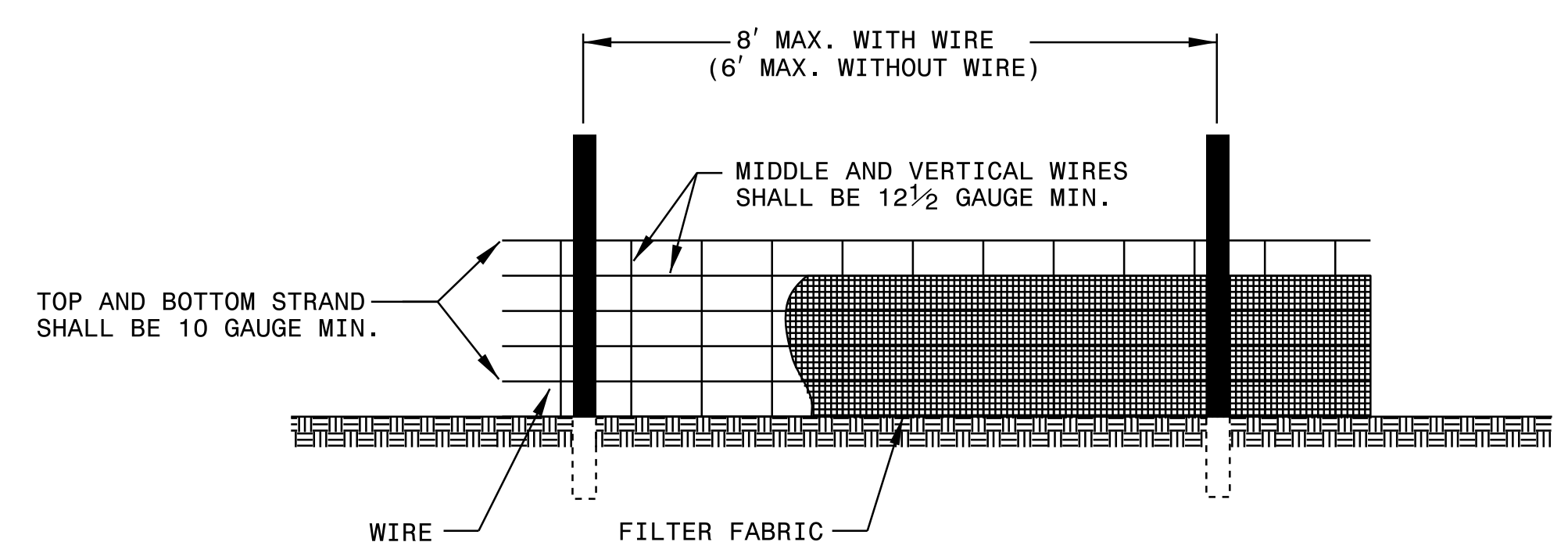
NOTES:
 USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

THE ENGINEER MAY DIRECT THE OPTION OF CLASS 'A' STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.

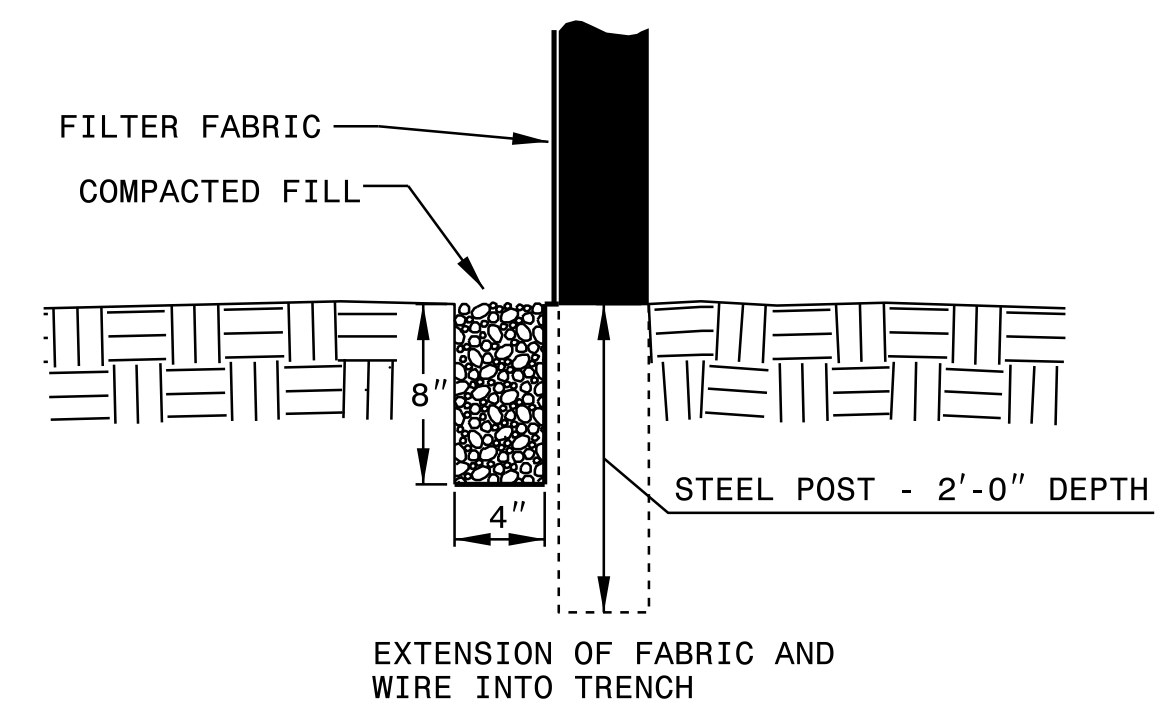


STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE



NOTES
 USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 USE FILTER FABRIC A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
 PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.



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

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL
 ENGLISH STANDARD DRAWING FOR

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

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 (HQW) 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 HQW ZONES.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CROSS-SECTION SUMMARY
IN CUBIC YARDS

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT	STRUCTURE EXCAVATION
22+00.00	0	0	0	0
22+23.23	11	0	0	0
22+44.97	13	0	1	224
22+56.22	8	0	2	228
22+67.47	8	0	1	228
22+89.33	13	0	0	227
23+00.00	5	0	0	0

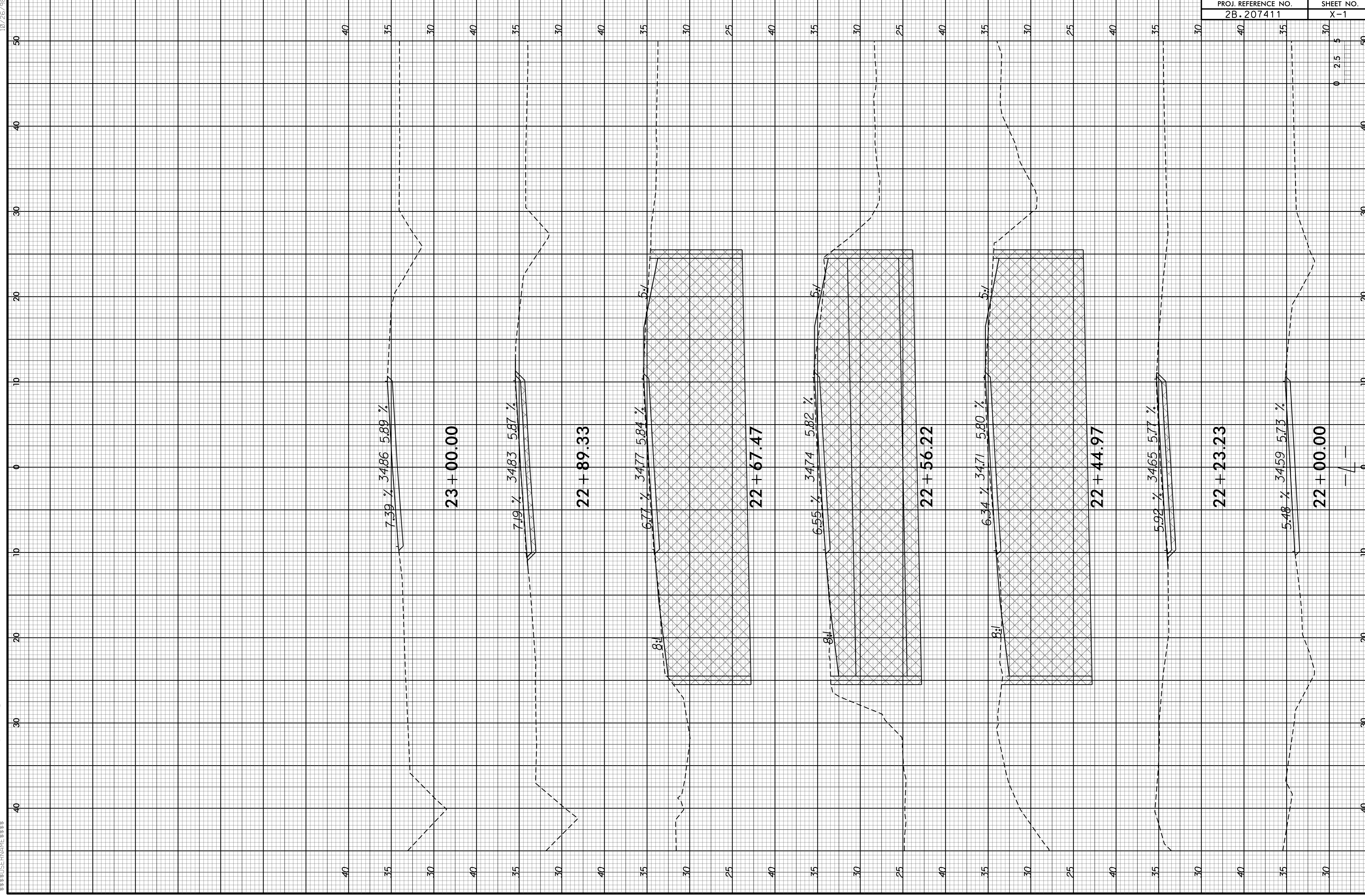
NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

NOTE:
APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION,
UNCLASSIFIED STRUCTURE EXCAVATION, BORROW EXCAVATION,
FINE GRADING, CLEARING AND GRUBBING AND REMOVAL OF
EXISTING PAVEMENT.

REVISIONS

8/17/99

08-MAY-2018 09:18
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PROJ. REFERENCE NO.	SHEET NO.
2B.207411	X-1