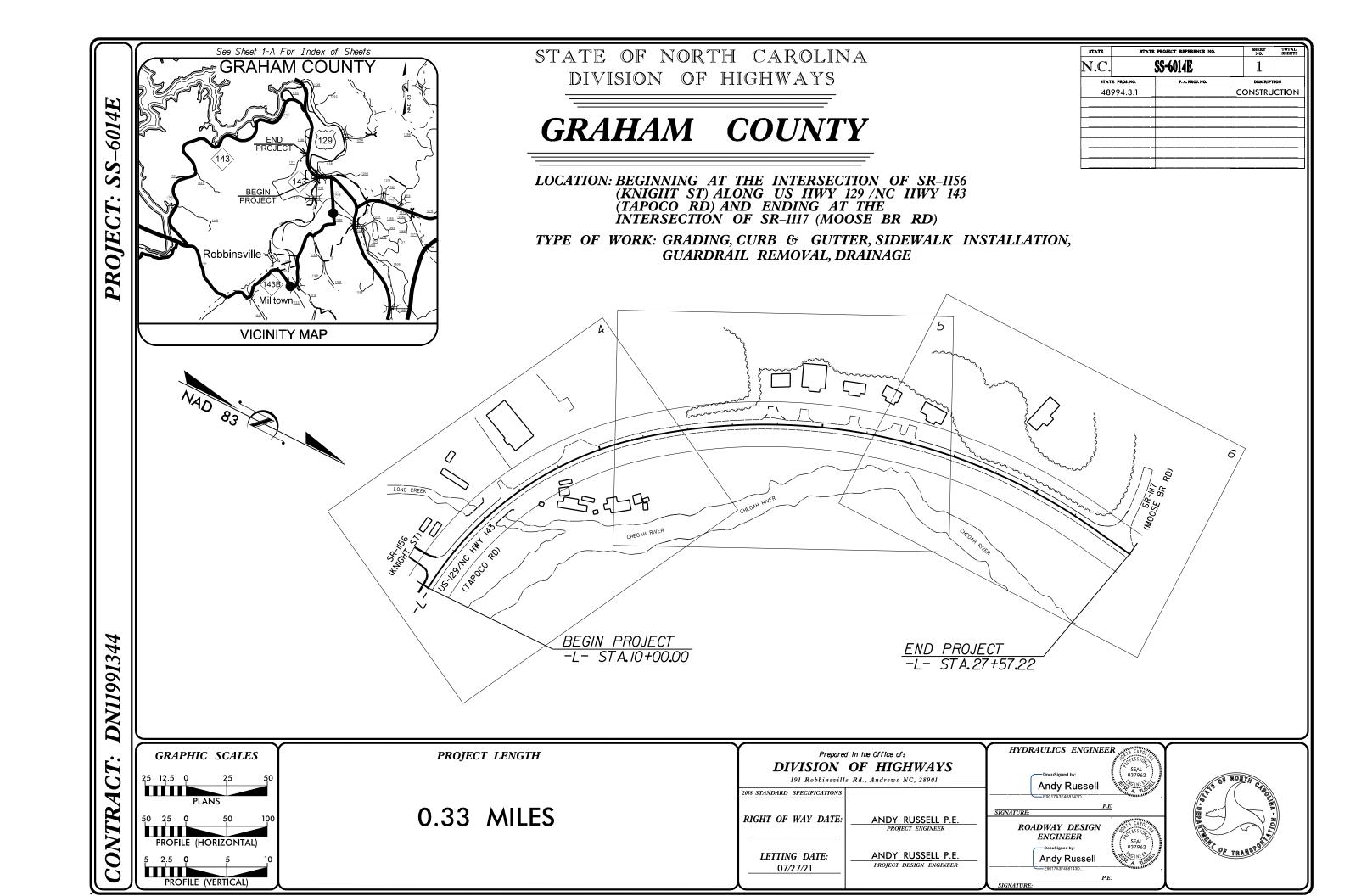
# This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

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This file or an individual page shall not be considered a certified document.



PROJECT REFERENCE NO. SHEET NO SS-6014E

## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# INDEX OF SHEETS GENERAL NOTES

# LIST OF ROADWAY **STANDARDS**

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL
4D	NOTES AND LIST OF STANDARDS
1B	CONVENTIONAL SYMBOLS
2A	TYPICAL SECTIONS
3B	SUMMARY SHEET
4-6	PLAN SHEETS
PMP1-PMP4	PAVEMENT MARKING PLAN
EC1-EC6	EROSION CONTROL SHEETS
X1-X5	CROSS SECTIONS

2018 SPECIFICATIONS EFFECTIVE: 01-16-2018 GENERAL NOTES:

- CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO THESE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY.
- CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS IN ACCORDANCE WITH STD. 848.05 AND/OR 848.06.
- DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 5 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.
- 6 NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

## UTILITY OWNERS:

- TOWN OF ROBBINSVILLE
- DUKE ENERGY
- FRONTIER COMMUNICATIONS
- ZITO MEDIA

2018 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 16, 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

STD. NO. DIVISION 2 - EARTHWORK 200.02 Method of Clearing - Method II DIVISION 3 - PIPE CULVERTS 300.01 Method of Pipe Installation Catch Basin
Concrete Curb, Gutter and Curb & Gutter
Concrete Sidewalk
Driveway Turnout - Radius Type
Guardrall Placement
Guardrail Installation DIVISION II - WORK ZONE TRAFFIC CONTROL Work Zone Advance Warning Signs Stationary Work Zone Signs Traffic Control Design Tables

DJECT REFERENCE NO.	SH
SS_6014F	

## \*S.U.E. = Subsurface Utility Engineering

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line —	
Existing Iron Pin	
Property Corner	
Property Monument	<u>.</u> ECM
Parcel/Sequence Number —	<b></b>
Existing Fence Line	
Proposed Woven Wire Fence	<del></del>
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Known Soil Contamination: Area or Site —	
Potential Soil Contamination: Area or Site —	
BUILDINGS AND OTHER CULT	00.
Gas Pump Vent or U/G Tank Cap	
Sign —	– õ
Well —	3
Well	
Small Mina	
Small Mine	- 🛠
Foundation —	- 🛠
Foundation  Area Outline	- × 
Foundation  Area Outline  Cemetery	- 🛠
Foundation  Area Outline  Cemetery  Building	- × 
Foundation  Area Outline  Cemetery  Building  School	- × 
Foundation  Area Outline  Cemetery  Building  School  Church	- × 
Foundation  Area Outline  Cemetery  Building  School	- × 
Foundation  Area Outline  Cemetery  Building  School  Church	- × 
Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water	- × -
Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:	- × -
Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water	- × -
Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir	- × -
Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream	- ×
Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  Buffer Zone 1  Buffer Zone 2  Flow Arrow	- ×
Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  Buffer Zone 1  Buffer Zone 2	- ×
Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  Buffer Zone 1  Buffer Zone 2  Flow Arrow  Disappearing Stream  Spring	- ×
Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  Buffer Zone 1  Buffer Zone 2  Flow Arrow  Disappearing Stream	- ×
Foundation  Area Outline  Cemetery  Building  School  Church  Dam  HYDROLOGY:  Stream or Body of Water  Hydro, Pool or Reservoir  Jurisdictional Stream  Buffer Zone 1  Buffer Zone 2  Flow Arrow  Disappearing Stream  Spring	- × - † - † - JS - BZ 1 - BZ 2 - W

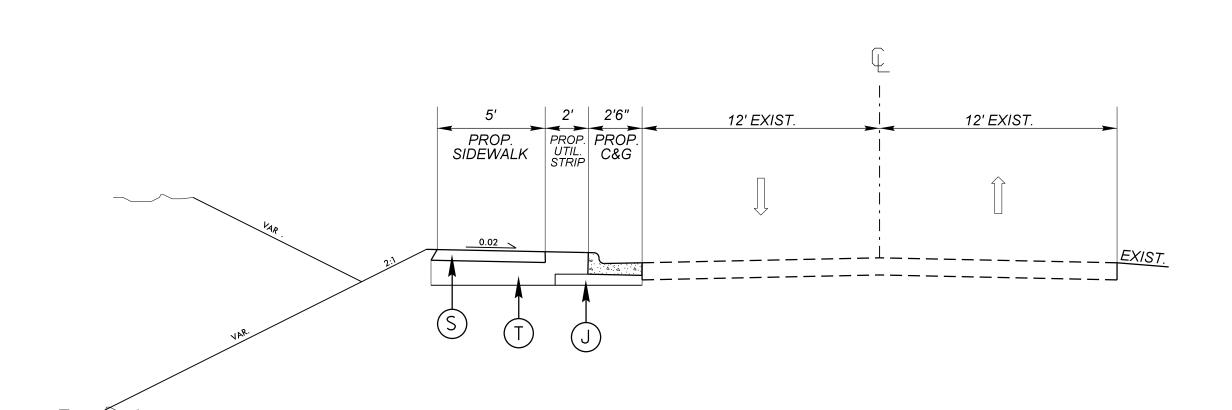
# CONVENTIONAL PLAN SHEET SYMBOLS

RAILROADS:	
Standard Gauge ————	CSX TRANSPORTATION
RR Signal Milepost ————————————————————————————————————	O MILEPOST 35
Switch —	SWITCH
RR Abandoned ————	
RR Dismantled ————	
RIGHT OF WAY:	
Baseline Control Point	•
Existing Right of Way Marker —————	$\stackrel{\bullet}{\triangle}$
Existing Right of Way Line	
Proposed Right of Way Line	<del></del>
Proposed Right of Way Line with Iron Pin and Cap Marker	<b>─</b>
Proposed Right of Way Line with Concrete or Granite R/W Marker	<del></del>
Proposed Control of Access Line with Concrete C/A Marker	<del></del>
Existing Control of Access	—— <del>(Ĉ)</del> ——
Proposed Control of Access —————	<del></del>
Existing Easement Line	——Е——
Proposed Temporary Construction Easement -	Е
Proposed Temporary Drainage Easement —	TDE
Proposed Permanent Drainage Easement ——	PDE
Proposed Permanent Drainage / Utility Easemen	nt
Proposed Permanent Utility Easement ———	PUE
Proposed Temporary Utility Easement ———	TUE
Proposed Aerial Utility Easement ————	AUE
Proposed Permanent Easement with Iron Pin and Cap Marker  ROADS AND RELATED FEATUR.	<b>♦</b>
	ES:
Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	<u>_</u>
Proposed Slope Stakes Fill	_
Proposed Curb Ramp	CR)
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	_
Equality Symbol	•
Pavement Removal	
VEGETATION:	
Single Tree —————————————————————————————————	සි
Single Shrub ————————————————————————————————————	Ф
Hedge ————	
Woods Line ————	-ىزى-ىزى-رى-رى-رى-

Orchard ————	8 8 8 8
ineyard —————	Vineyard
EXISTING STRUCTURES:	
AJOR:	
Bridge, Tunnel or Box Culvert —————	CONC
Bridge Wing Wall, Head Wall and End Wall –	CONC WW
NNOR:	
Head and End Wall	CONC HW
Pipe Culvert ————————————————————————————————————	
Footbridge ————	<b>&gt;</b>
Drainage Box: Catch Basin, DI or JB ———	СВ
Paved Ditch Gutter	
Storm Sewer Manhole —————	(\$)
Storm Sewer —	s
UTILITIES:	
OWER:	1
Existing Power Pole	•
Proposed Power Pole ————————————————————————————————————	<b>o</b>
Existing Joint Use Pole	- <b>⊕</b> -
Proposed Joint Use Pole	<b>-6</b> -
Power Manhole ————————————————————————————————————	P
Power Line Tower ————————————————————————————————————	$\boxtimes$
Power Transformer ———————————————————————————————————	Ø
U/G Power Cable Hand Hole —————	
H–Frame Pole ————————————————————————————————————	•—•
Recorded U/G Power Line	P
Designated U/G Power Line (S.U.E.*)	
ELEPHONE:	
Existing Telephone Pole ————	-•-
Proposed Telephone Pole ————	<b>-0</b> -
Telephone Manhole	<b>©</b>
Telephone Booth ———————————————————————————————————	3
Telephone Pedestal ————————————————————————————————————	Π
Telephone Cell Tower ————————————————————————————————————	, <b>ā</b> ,
U/G Telephone Cable Hand Hole ———	нн
Recorded U/G Telephone Cable ————	т
Designated U/G Telephone Cable (S.U.E.*)—	
Recorded U/G Telephone Conduit ———	
Designated U/G Telephone Conduit (S.U.E.*)	
Recorded U/G Fiber Optics Cable ———	
Designated U/G Fiber Optics Cable (S.U.E.*)	
J	

Water Manhole —	W
Water Meter	
Water Valve	
Water Hydrant —	•
Recorded U/G Water Line —	
Designated U/G Water Line (S.U.E.*)	
Above Ground Water Line	
TV:	
TV Satellite Dish	<b>K</b>
TV Pedestal —	C
TV Tower —	$\otimes$
U/G TV Cable Hand Hole —	. H <sub>H</sub>
Recorded U/G TV Cable —	
Designated U/G TV Cable (S.U.E.*)———	
Recorded U/G Fiber Optic Cable —	
Designated U/G Fiber Optic Cable (S.U.E.*)—	
- ' ' '	
GAS:	
Gas Valve	<b>♦</b>
Gas Meter	<b>\( \rightarrow</b>
Recorded U/G Gas Line —	
Designated U/G Gas Line (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
Recorded SS Forced Main Line	FSS——
Designated SS Forced Main Line (S.U.E.*) —	
,	
MISCELLANEOUS:	
Utility Pole	•
Utility Pole with Base —	
Utility Located Object —	_
Utility Traffic Signal Box —	
Utility Unknown U/G Line	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc. ——	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
U/G Test Hole (S.U.E.*)	U
Abandoned According to Utility Records —	
End of Information —	E.O.I.
***	L. O.I.

PROJECT REFERENCE NO. SHEET NO. SS-6014E **2A** 



# TYPICAL SECTION 1

# SURFACING SCHEDULE

ITEM NO.	DESCRIPTION
J	8" GRADED AND COMPACTED ABC
S	SIDEWALK
Т	EARTH MATERIAL

PROJECT REFERENCE NO. SHEET NO.

## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

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".

## SUB-REGIONAL & REGIONAL

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

STATION  SIZE  THICKNESS OR GAUGE	LOCATION (LT,RT, OR CL)	TO STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	12″ 15″	DRAI CSP, C 4" 30"			NOT USE RCP	DO NOT USE CSP	NOT USE		18"	+	2" 48			:. PIPE (SS III)		2" 48	." 12"	15"		C. PIPE ASS IV	48"	PIPE (CLASS V)	R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE R. C. PIPE CLIVERTS, CONTRACTOR DESIGN PIPE	DRAIN PIPE	DRAIN PIPE	- i	01, 3.11 (80 SS D ISE) ■	EACH (0'THRU 5.0') FOR		'A' + (1.3 X COL.'	8. STD. 840.01 OR STD. 840.02	STAN	AND H	GRATES OOD 840.0	 ATCH BASIN CONCRETE TRANSITIONAL	OP INLET	I. STD. 840.14 OR	FRAME & GRATE SID. 840.10	GRATE STD. 840.3	I. (N.S.) FRAME WITH TWO GRATES ST	STD. 840.31 OR 840.32		orr. steel elbows no. & size		ONC. COLLARS CL. "B" C.Y. STD 840.72	DNC. & BRICK PIPE PLUG, C.Y. STD. 840.71		je removal lin.ft.	J.B. M.I T.B	D.J. I. D.J. D.J. (N. i.	CATCH NARRC DROP GRATE (),) GRATE (NARRI JUNCT MANH TRAFFI	D DROP IND DROP IND DROP SLOT)  ION BOX  OLE  C BEARING	NLET	
16+04	LT 1		1973.1								۵	Δ	١	-	10			+										*	1 1	15	18		1	1	5.0	9 (	1	1	F	G	J	ă	Δ	i c	5 C	9 6	) =		Ō	<u>'</u>	Ō	ō		<u>~</u>						
16 + 04 16 + 04	LT 1	2	1972.5	1968.1	1968.8	Н		+	Н	-			+	+	10			+	$\vdash$	+	+	+	+		+	+			-	+	$\dashv$		$\dashv$	1	+	+	+	+			$\dashv$	$\dashv$	1	1	+			+		+	$\dashv$		+				REMOV	E EXIST. D.I		-
18+25	LT 3		1974.8																															1			1		1																					
																																	$\exists$																											
						H															+		+					H		+			$\dashv$			+	-					+																		

# GUARDRAIL SUMMARY

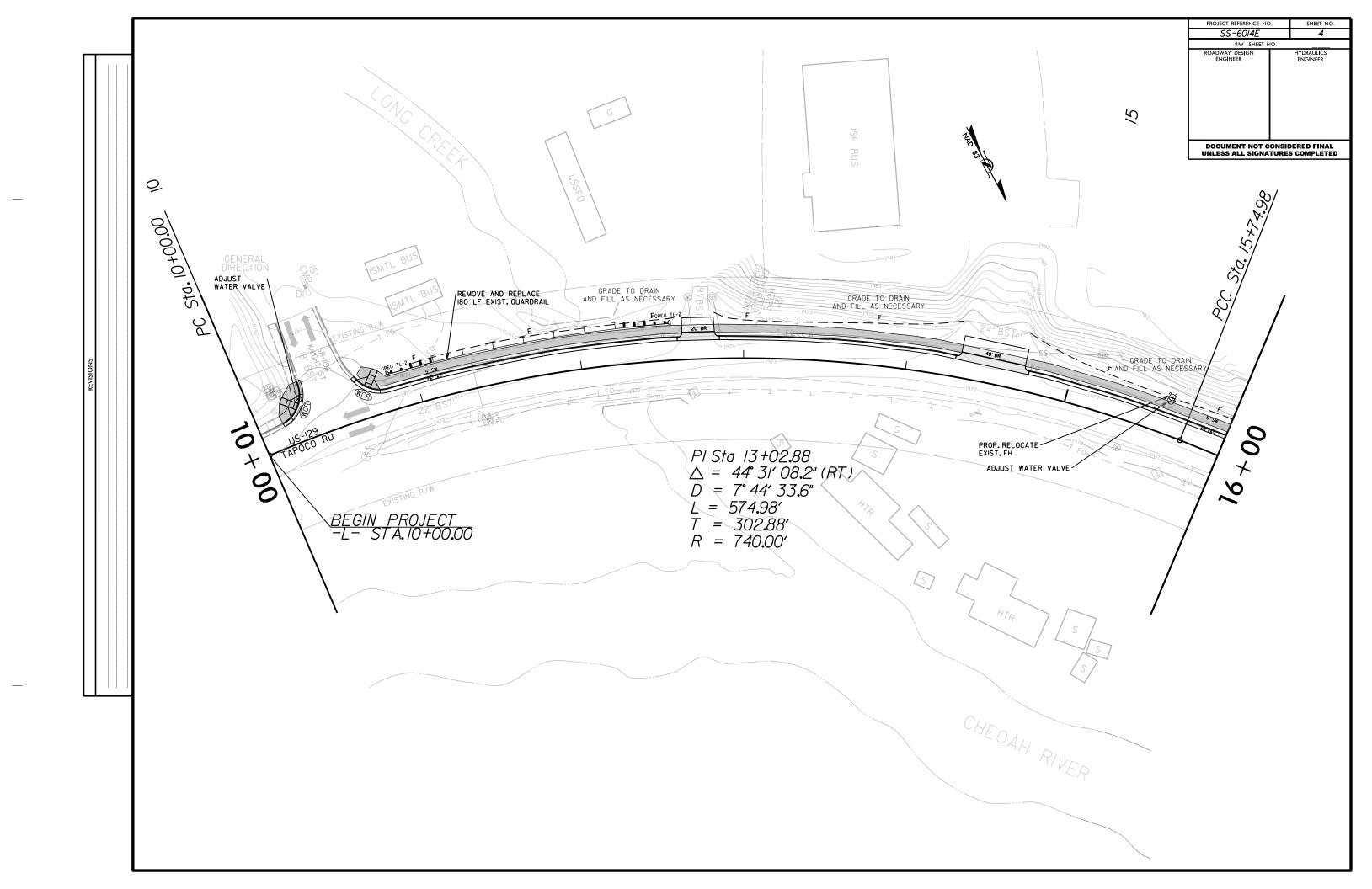
SURVEY LINE	BEG. STA.	END STA.	LOCATION		LENGTH		WARRAN	T POINT	"N" DIST.	TOTAL SHOULDER	FLARE	LENGTH	,	<b>v</b>			,	anchors		IMPACT ATTENUATO TYPE 350	EXISTING		DEMARKS
LINE	BEG. STA.	END STA.	ECCATION	STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END	FROM E.O.L.	WIDTH	APPROACH END	TRAILING END	APPROACH END	TRAILING END	GREU TL2					NO. G N	GUARDRA (LF)	IL .	REMARKS
-L-	10 + 83	12 + 56	LT	180			12 + 56	10 + 83							2						180		REMOVE, REPLACE 180 LF OF EXISTING GUARDRAIL
-L-	17 + 35	18 + 62	LT																		128		REMOVE EXISTING GUARDRAIL

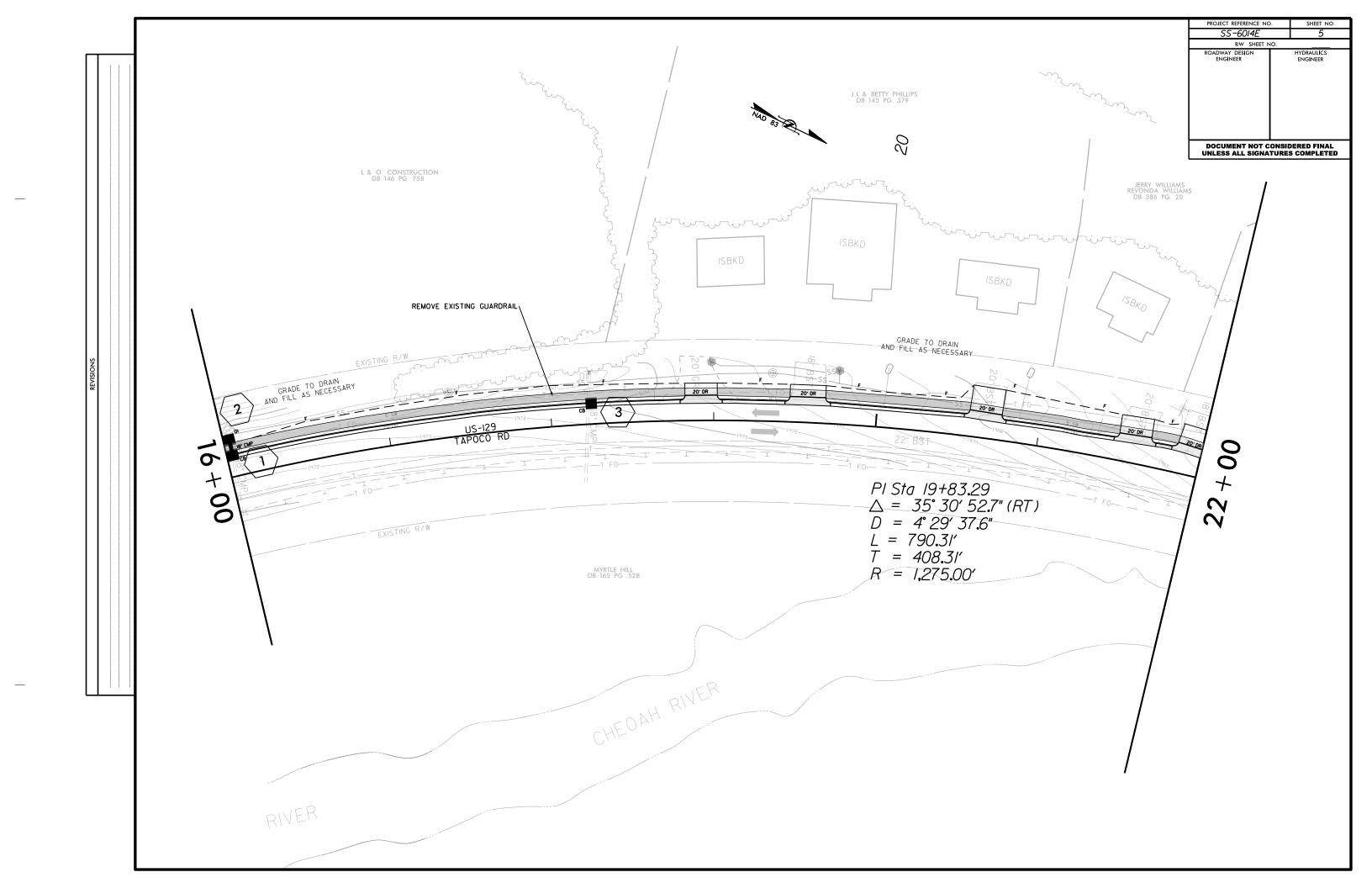
## SUMMARY OF EARTHWORK

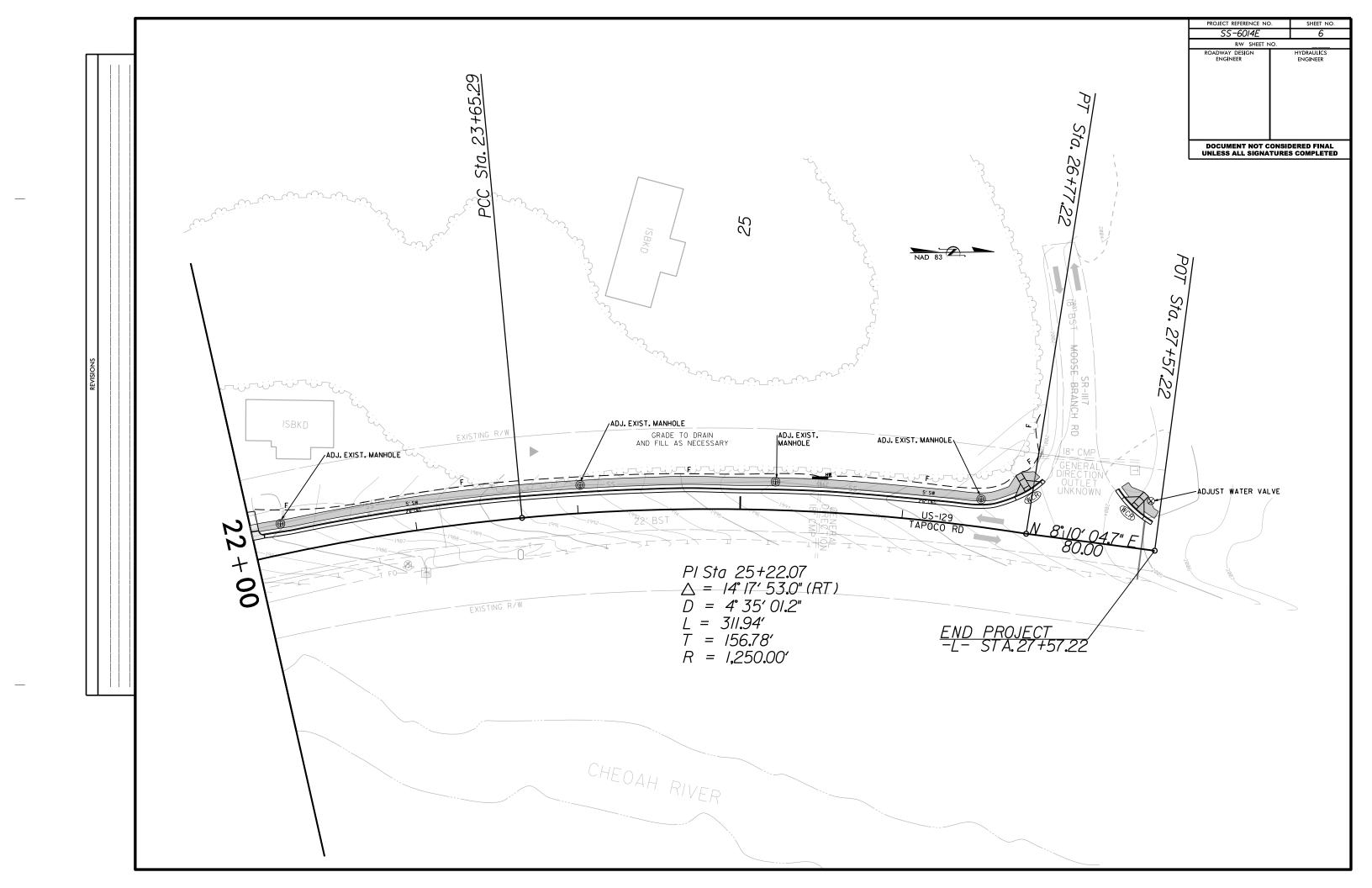
STATION	STATION	UNCL. EXCAV.	EMBANK. +%	BORROW	WASTE
10 + 00	27 + 52	116	212	215	116
SUBTO:	TALS:	116	212	215	116
PROJECT	TOTALS:	116	212	215	116
EST. 5% TO REPLACE TOP	SOIL ON BORROW PIT			10.75	
EST. SW TO REPORT TO	SOL ON SOUNDY III			10.75	
GRAND T	TOTALS:	116	212	225.75	116
SAY	<i>/</i> .	120		225	120

### NOTE:

Approximate quantities only. Unclassified Excavation, Borrow Excavation, Clearing & Grubbing, and Removal & Breakup of existing pavement will be paid at the lump sum price for "Grading."







# PROJECT: SS-6014E

ONTRACT: DNI199134

STATE	OF I	NORT	$\mathbb{H}'$	CAROLINA
DIVI	SION	$\mathbb{OF}$	HIC	GHWAYS

# PAVEMENT MARKING PLAN GRAHAM COUNTY

STATE	STATE	PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.		SS-6014E	PMP-1	
STAT	E PROJ. NO.	F. A. PROJ. NO.	DESCRIPT	ION
48	994.3.1		 ONSTRU	CTION

LOCATION: ALONG US HWY 129 /NC HWY 143

TYPE OF WORK: GRADING, SIDEWALK INSTALLATION, GUARDRAIL REMOVAL, DRAINAGE

# LIST OF ROADWAY STANDARDS

2018 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 16, 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

STD. NO. TITLE

DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION 1205.01 Pavement Markings - Line Types and Offsets 1205.07 Pavement Markings - Pedestrian Crosswalks

# INDEX OF SHEETS

PMP-1 PAVEMENT MARKING PLAN TITLE,

INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, GENERAL NOTES. FINAL PAVEMENT

MARKING SCHEDULE

PMP-2 THRU PMP-4 PAVEMENT MARKING PLAN

# GENERAL NOTES

GENERAL NOTES:

2018 SPECIFICATIONS EFFECTIVE: 01-16-2018

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME MARKING
RODNEY ORR BYPASS PAINT
KNIGHT STREET PAINT
MOOSE BRANCH ROAD PAINT

MARKER

- TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC

  MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS,

  SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED,

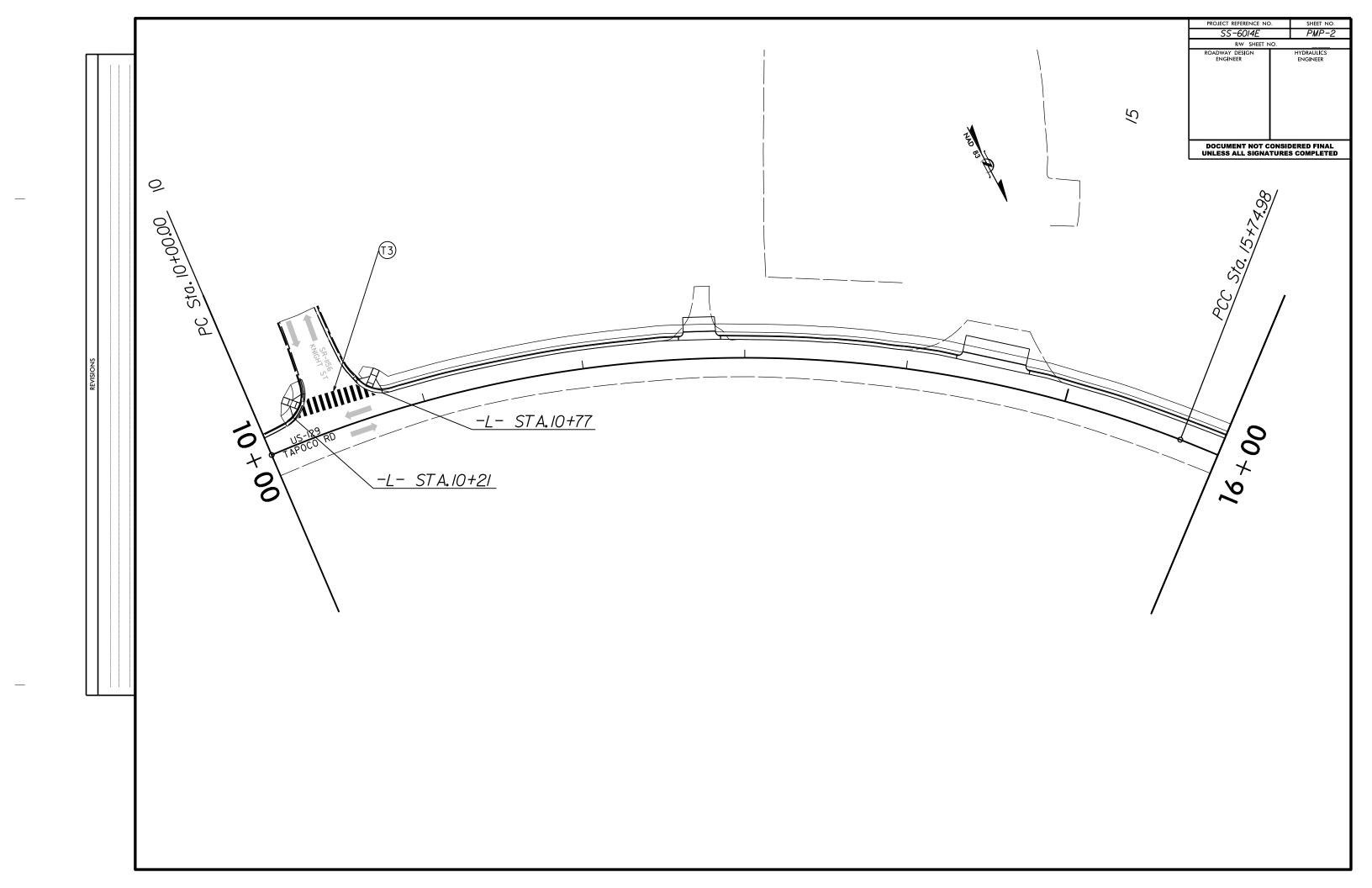
  IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

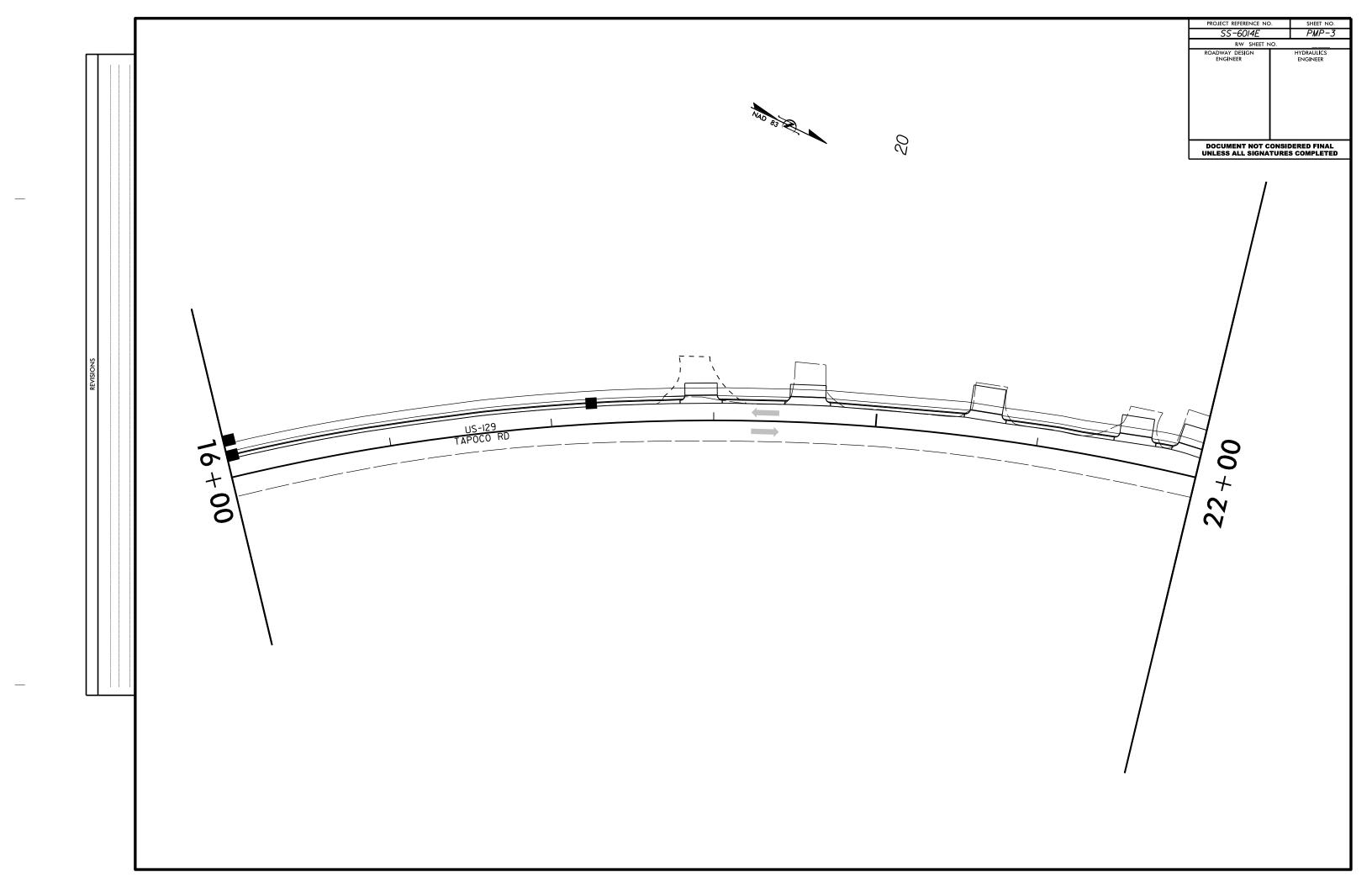
# PAVEMENT MARKING SCHEDULE

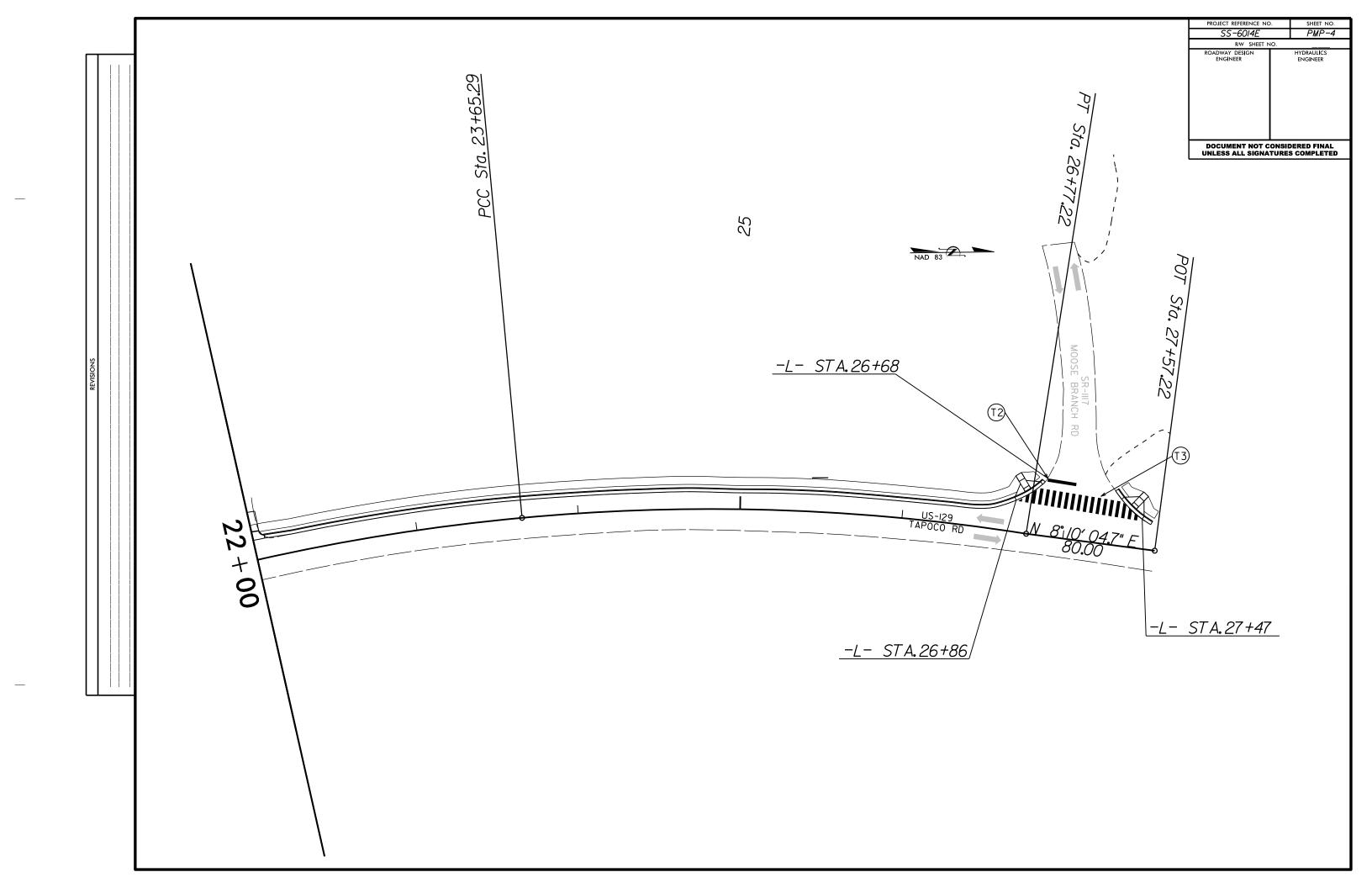
PAVEMENT MARKINGS

SYMBOL DESCRIPTION
T2 WHITE STOP BAR

T2 WHITE STOP BAR T3 WHITE CROSSWALK LINE







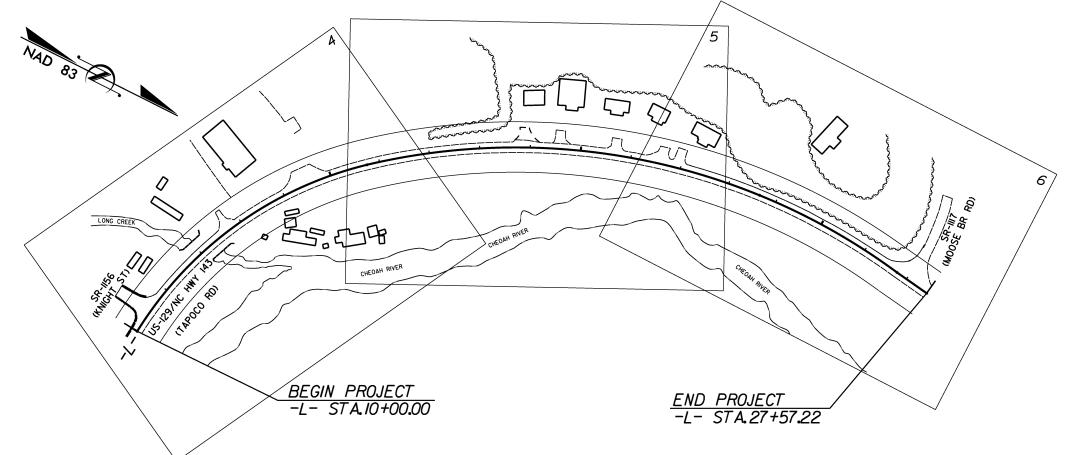
## STATE OF NORTH CAROLINA

## DIVISION OF HIGHWAYS

PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

# GRAHAM COUNTY

LOCATION: BEGINNING AT THE INTERSECTION OF SR-1156 (KNIGHT ST) ALONG US HWY 129 /NC HWY 143 (TAPOCO RD) AND ENDING AT THE INTERSECTION OF SR-1117 (MOOSE BR RD) TYPE OF WORK: GRADING, SIDEWALK INSTALLATION, GUARDRAIL REMOVAL, DRAINAGE



STATE	STATE PROJECT REFERENCE NO.			SHEET NO.	TOTAL SHEETS
N.C.		SS-6014E		EC-1	
STATE PROJ.NO.		P. A. PROJ. NO.		DESCRUPTION	
48994.3.1			С	CONSTRUCTION	

## EROSION AND SEDIMENT CONTROL MEASURES

Sed. 28	Description. Symbol			
	Streambank Reforestation XXX			
1630.03	Temporary Silt Ditch			
1630.05	Temporary Diversion			
1605.01	Temporary Silt Fence			
1606.01	Special Sediment Control Fence			
16 <b>22</b> .01	Temporary Berms and Slope Drains			
1630.01	Riser Basin			
1630.02	Silt Basin Type B			
1633.01	Temporary Rock Silt Check Type-A			
	Temporary Rock Silé Check Type-B			
	Wattle / Coir Fiber Wattle			

634.01	Temporary Kock Sediment Dam Type-A
634.02	
635.01	Temporary Rock Sediment Dam Type-B. Rock Pipe Inlet Sediment Trap Type-A.
635.02	Rock Pipe Inlet Sediment Trap Type-B ( )
630.04	Stilling Basin
	Rock Inlet Sediment Trap:
6 <b>32</b> .01	Туре А 🗚 🗖
632.02	Туре В В
632.03	Туре С С 🗖
	Skimmer Basin
	Tiered Skimmer Basin
	Infiltration Basin

ANDY RUSSELL P.E.

LEVEL IIIA NAME

3234

LEVEL IIIA CERTIFICATION NO.

GRAPHIC SCALE

GRAHAM COUNTY

**VICINITY MAP** 



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PER HIT EFFECTIVE APRIL 1, 2019 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:

**DIVISION OF HIGHWAYS** 

191 Robbinsville Rd., Andrews NC, 28901

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

ANDY RUSSELL P.E.

*LETTING DATE*: 07/27/21

PROJECT ENGINEER

ANDY RUSSELL P.E.

PROJECT DESIGN ENGINEER

Roadway Standard Drawings

ne following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design nit - N.C. Department of Transportation - Raleigh, N.C., dated January 2018 and the latest vison thereto are applicable to this project and by reference hereby are considered a part of ese plans.

 1622.01
 Temporary Jerms and Slope Drains
 1633.02
 Temporary Rock Silt Check Type 3

 1630.01
 Riser Jasin
 1634.01
 Temporary Rock Sediment Dam Type A

 1630.02
 Silt Jasin Type 3
 1634.02
 Temporary Rock Sediment Dam Type A

 1630.03
 Temporary Silt Ditch
 1635.01
 Rock Pipe Inlet Sediment Trap Type A

 1630.05
 Temporary Diversion
 1635.02
 Rock Pipe Inlet Sediment Trap Type J

 1630.06
 Special Stilling Jasin
 1640.01
 Coir Fiber Jaffle

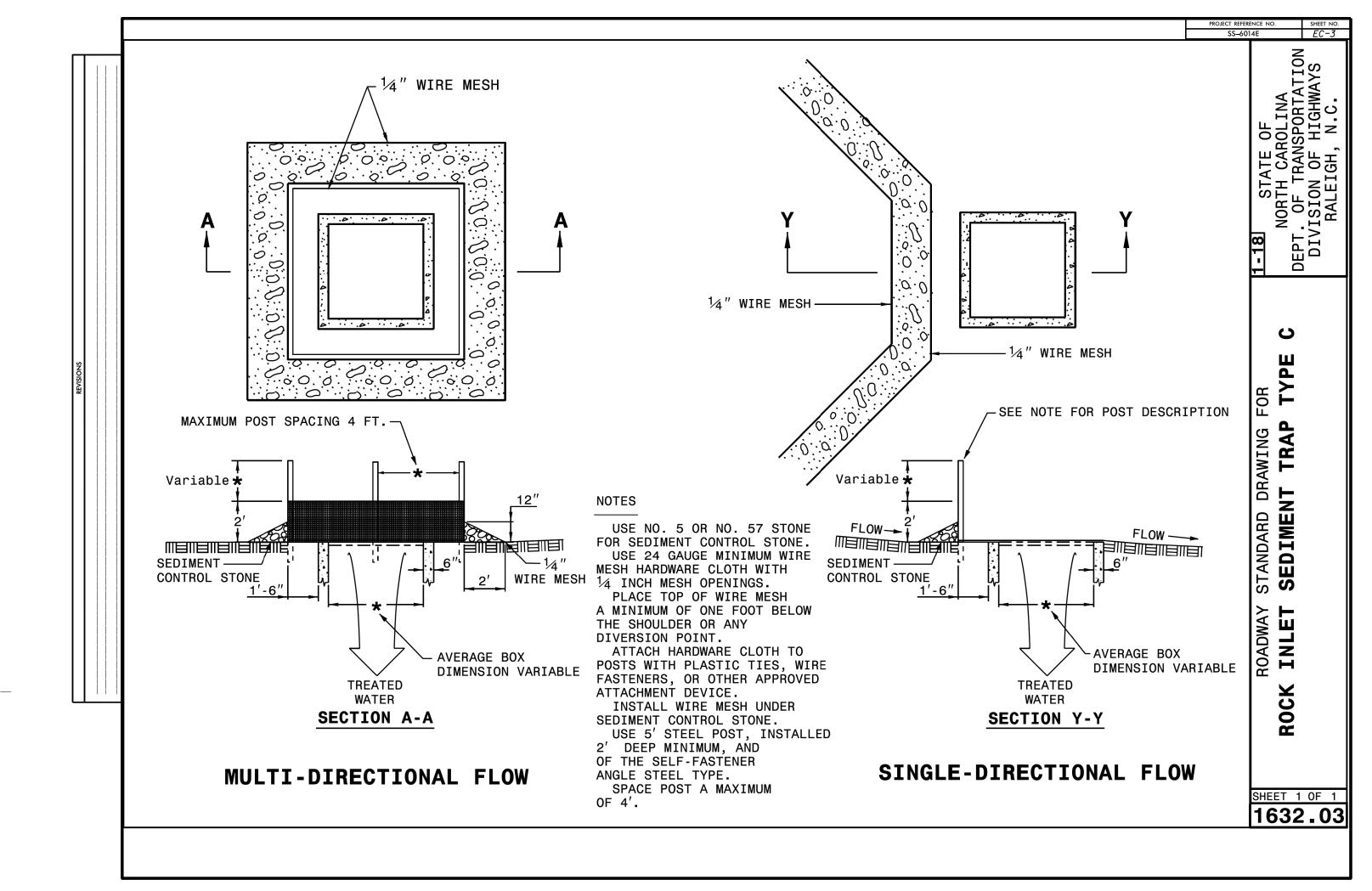
 1631.01
 Matting Installation
 Temporary Stream Crossing

SS-6014E SHEET NO.

## DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

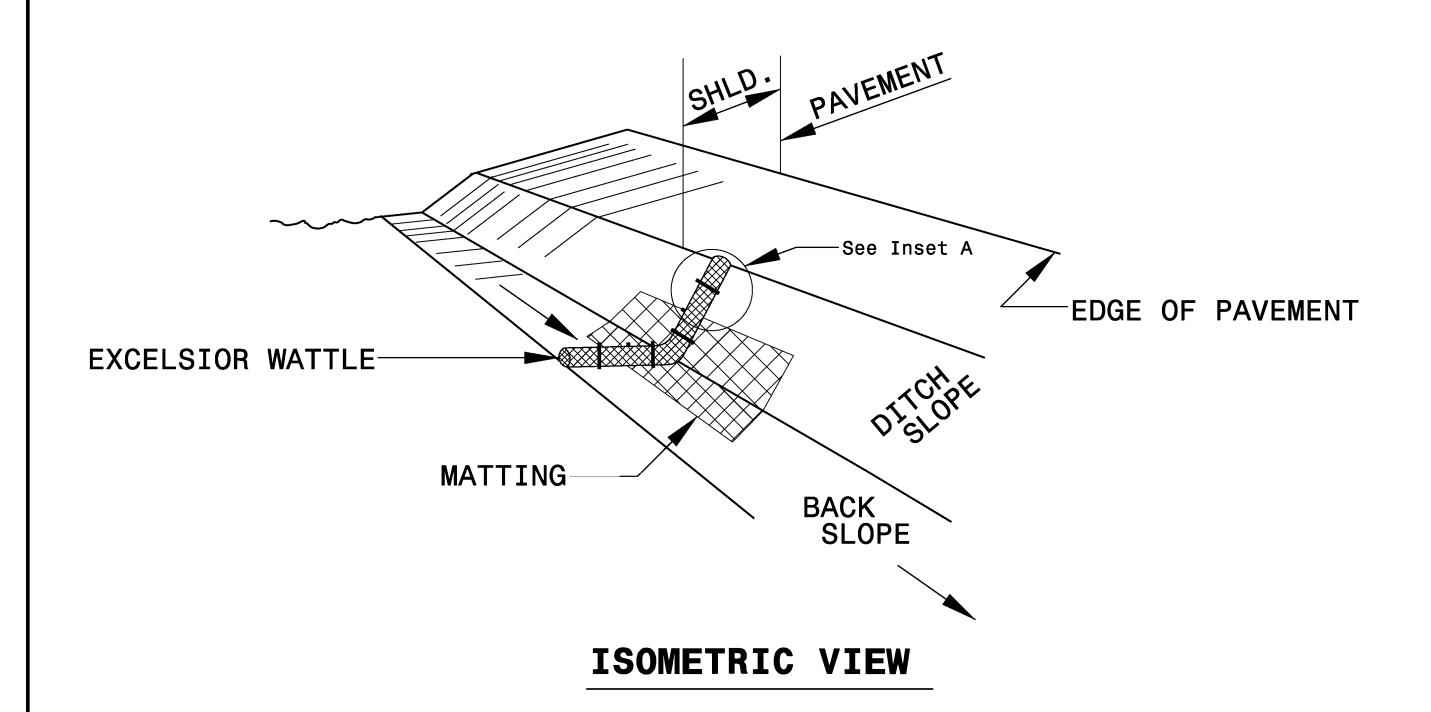
# SOIL STABILIZATION TIMEFRAMES

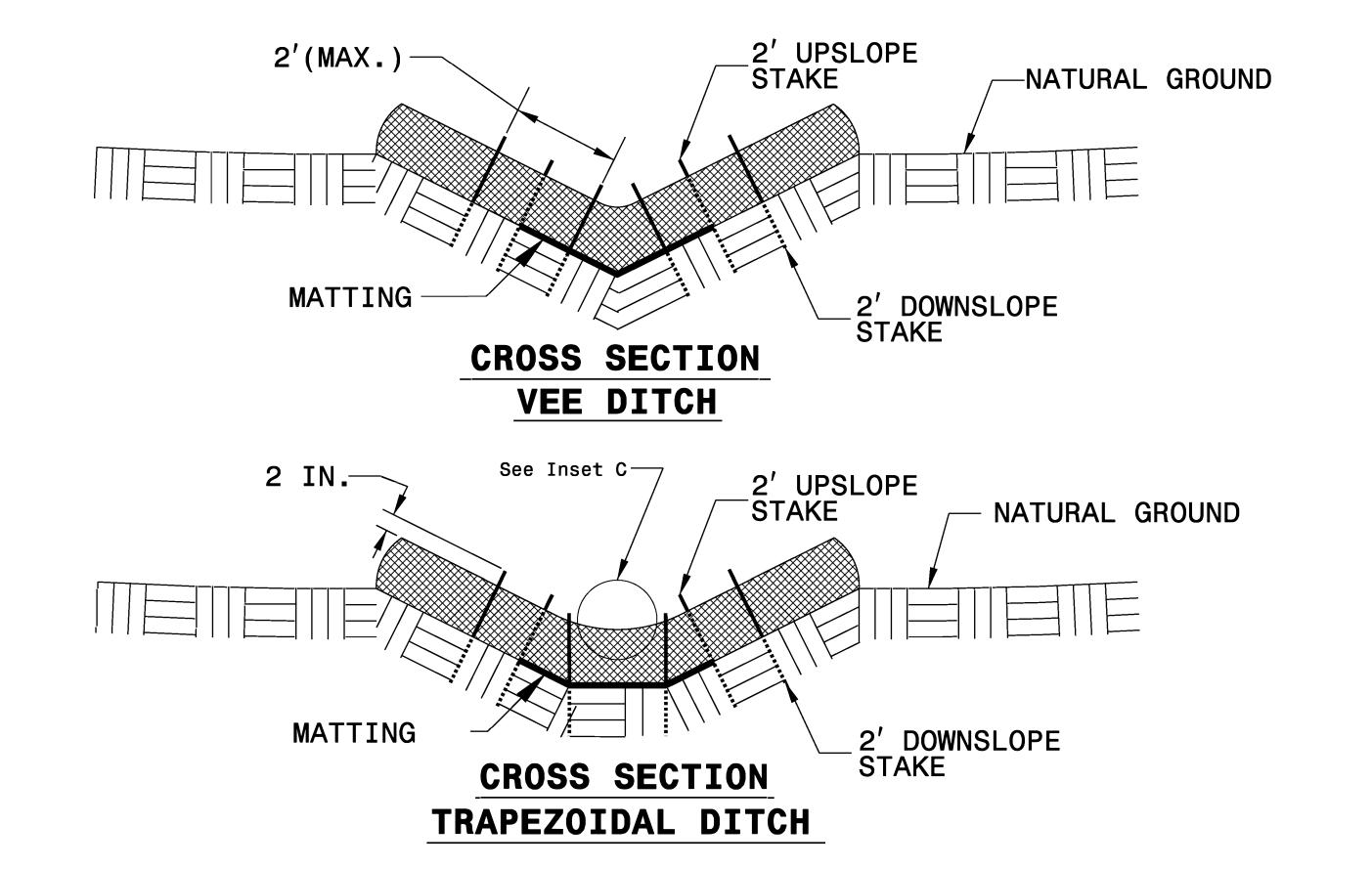
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE IO'OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50'IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	I4 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.



# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

PROJECT REFERENCE NO	SHEET NO.
SS-6014E	EC-3A
R/W SHEET N	10.
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER





## **NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

