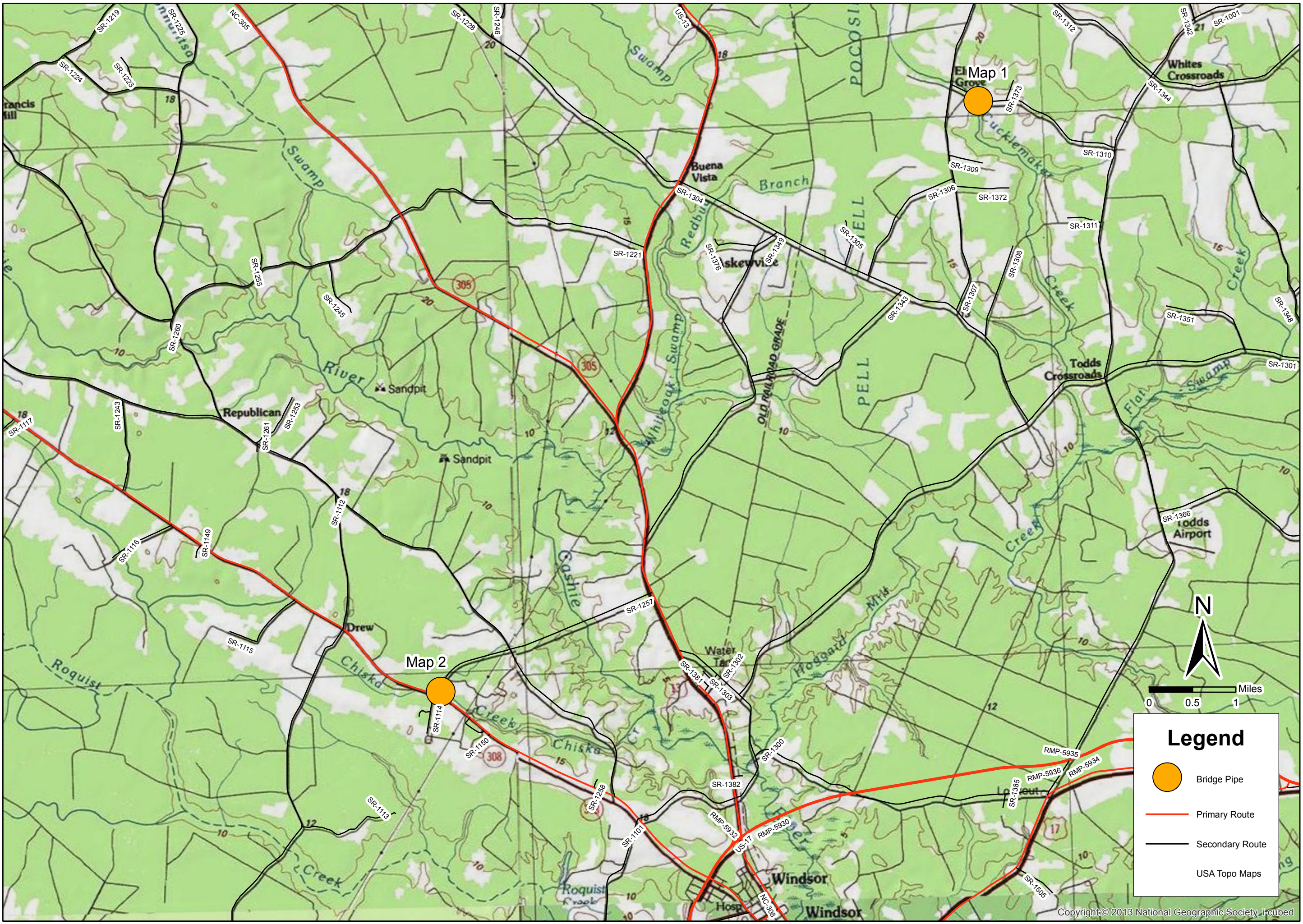


DA00332  
 Division 1 NCDOT  
 November 16, 2016  
 Map Scale: 1 inch=1 mile

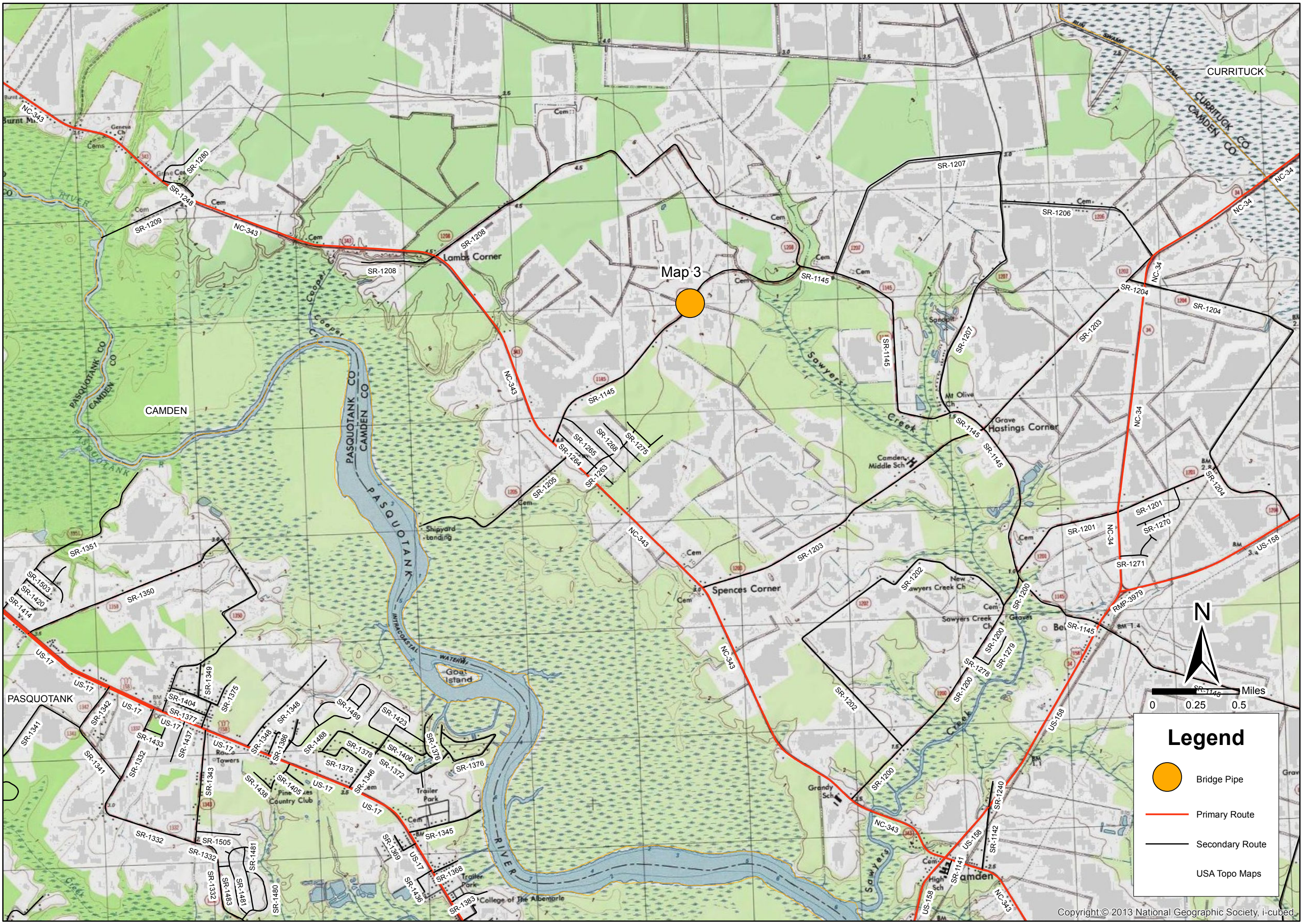
Bridge Pipe Replacements  
 SR 1257 & SR 1310  
 Bertie County





DA00332  
 Division 1 NCDOT  
 November 16, 2016  
 Map Scale: 1 inch=0.5 miles

Bridge Pipe Replacements  
 SR 1145  
 Camden County





## **Bridge Pipe Replacement**

SR 1310, Exter Road

Bertie County

Identification: Map 1

Latitude: 36.133166

Longitude: -76.901864

Existing Pipe: 8' x 21' x 60' ABC

Proposed Pipe: 23'-6" x 8'-6" x 58'-6" ABC with Headwalls

NCFMP not required

Perform in DRY





## **Bridge Pipe Replacement**

SR 1257, School Road

Bertie County

Identification: Map 2

Latitude: 36.035862

Longitude: -77.015415

Existing Pipe: 1 @ 72' x 92' RCP & 2 @ 72" x 100' CMP

Proposed Pipe: 17'-10" x 10'-10" x 81' ASPPA with Headwalls

NCFMP required

Perform in DRY





## **Bridge Pipe Replacement**

SR 1145, Trafton Road

Camden County

Identification: Map 3

Latitude: 36.375155

Longitude: -76.196491

Existing Pipe: 71" x 47" x 60' CMAP

Proposed Pipe: 72" x 46' CAP with Headwalls

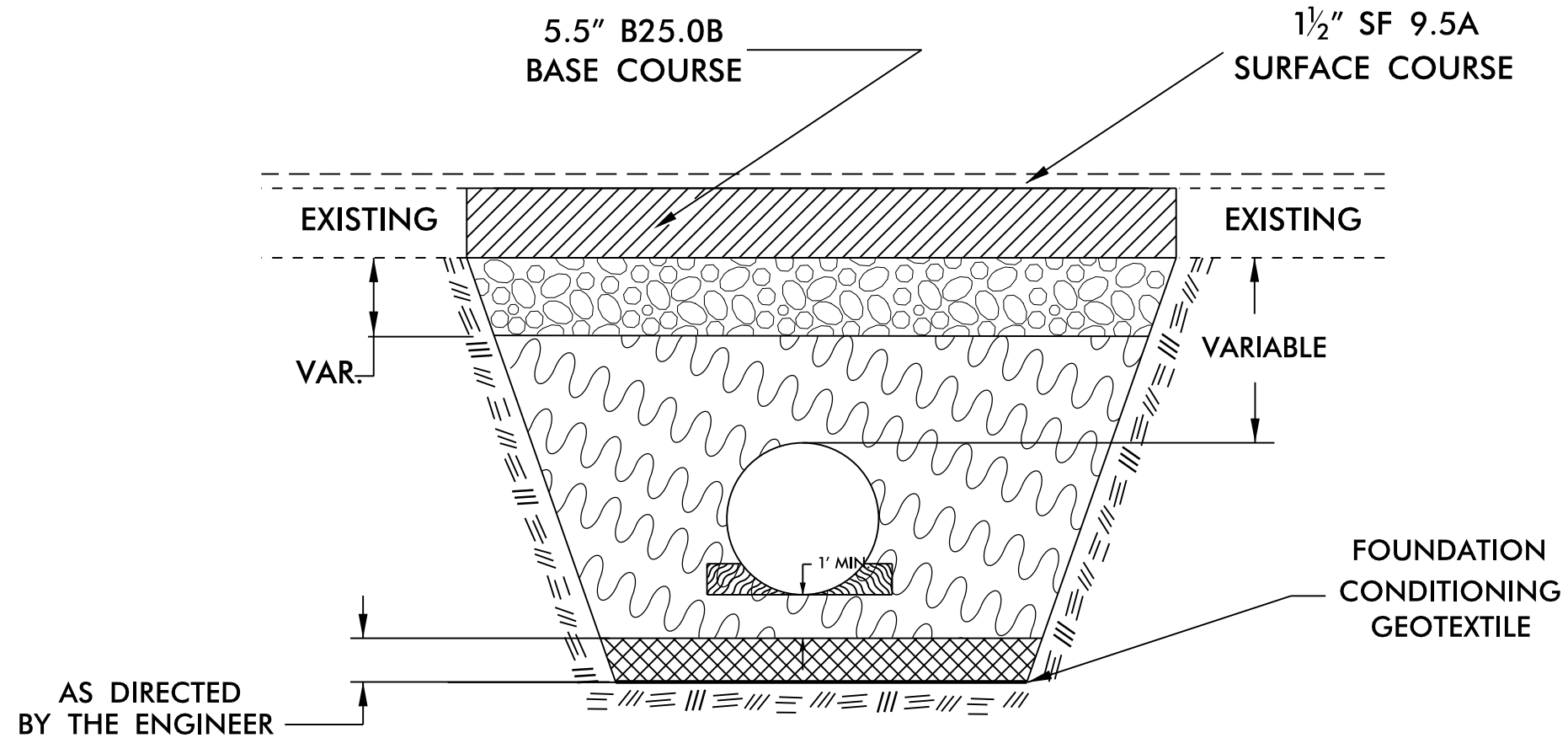
NCFMP not required

Perform in DRY





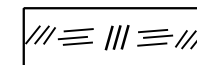
# INSTALLATION DETAIL



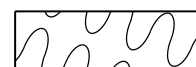
## CORRUGATED ALUMINUM ALLOY PIPE /CULVERT



TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL



UNDISTURBED EARTH MATERIAL



SELECT BACKFILL MATERIAL CLASS III OR CLASS II OR OTHER APPROVED MATERIAL BY THE ENGINEER



SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENGINEERING FABRIC WILL BE INSTALLED BELOW THIS MATERIAL AS DIRECTED BY THE ENGINEER



AGGREGATE BASE COURSE

– NOT TO SCALE –

REVISIONS

22-NOV-2016 08:02 C:\Users\jcs\AppData\Local\Temp\1\20161108\_100332.dwg  
 PROJECT WORKING FILES\Bridg Maintenance\Division Wide\DA00332 Pipe\_Culvert Replacements Bertie & Camden Co. (Mathew 2016)\1\Pre-Bid Documents\DA00332\_Typical.dgn

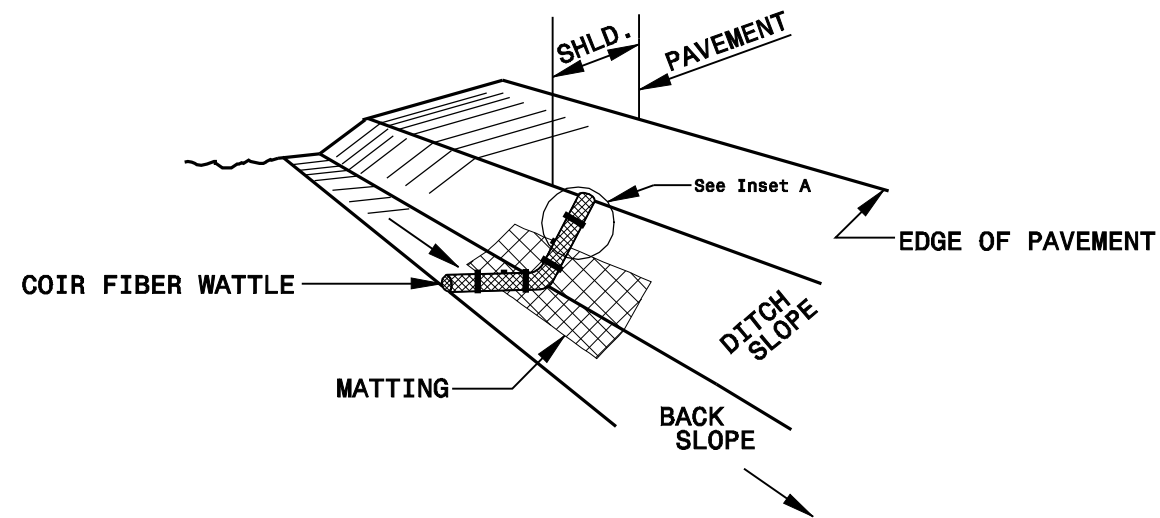
PROJECT NO.	SHEET NO.	TOTAL NO.
DF15001.2008010, DF15001.2008014, DF15001.2015010,		

### SUMMARY OF QUANTITIES

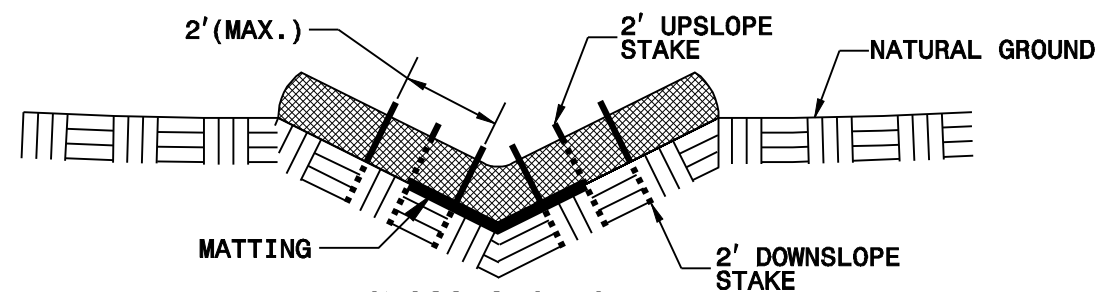
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	GRADING (MAP 1, EXTER) LS	GRADING (MAP 2, SCHOOL) LS	GRADING (MAP 3, TRAFTON) LS	BORROW EXCAV CY	FND CONDIR MATL, MINOR STRS CY	FND CONDIT GEOTEXTILE SY	AGG BASE COURSE TONS	ASP CONC BASE CRS, B25.0B TONS	ASP CONC SURFACE CRS, SF9.5A TONS	ASP FOR PLANT MIX TONS	RIP RAP, CLASS B TON	TEMP SILT FENCE LF	COIR FIBER MAT SY	COIR FIBER WATTLE LF	SEEDING AND MULCHING AC	GENERIC EROSION CONTROL ITEM (DEWATERING, MAP 1) LS	GENERIC EROSION CONTROL ITEM (DEWATERING, MAP 2) LS	GENERIC EROSION CONTROL ITEM (DEWATERING, MAP 3) LS	GENERIC CULVERT ITEM (ADDITIONAL UNDERCUT) CY
DF15001.2008010	Bertie	1	SR 1310 (EXTER RD.)		1	2	2WU	NO	NO	0.01	20	1	1			500	1,123	160	631	74	20	5	100	100	475	40	0.25	1			160
<b>TOTAL FOR MAP NO. 1</b>										<b>0.01</b>		<b>*</b>	<b>1</b>			<b>500</b>	<b>1,123</b>	<b>160</b>	<b>631</b>	<b>74</b>	<b>20</b>	<b>5</b>	<b>100</b>	<b>100</b>	<b>475</b>	<b>40</b>	<b>0.25</b>	<b>1</b>			<b>160</b>
<b>TOTAL FOR PROJ NO. DF15001.2008010</b>										<b>0.01</b>		<b>*</b>	<b>1</b>			<b>500</b>	<b>1,123</b>	<b>160</b>	<b>631</b>	<b>74</b>	<b>20</b>	<b>5</b>	<b>100</b>	<b>100</b>	<b>475</b>	<b>40</b>	<b>0.25</b>	<b>1</b>			<b>160</b>
DF15001.2008014	Bertie	2	SR 1257 (SCHOOL RD.)	200' NORTH OF NC 308	1	2	2WU	NO	NO	0.01	20	*		1		201	1,392	100	654	85	23	5	100	100	484	40	0.30		1		150
<b>TOTAL FOR MAP NO. 2</b>										<b>0.01</b>		<b>*</b>		<b>1</b>		<b>201</b>	<b>1,392</b>	<b>100</b>	<b>654</b>	<b>85</b>	<b>23</b>	<b>5</b>	<b>100</b>	<b>100</b>	<b>484</b>	<b>40</b>	<b>0.30</b>		<b>1</b>		<b>150</b>
<b>TOTAL FOR PROJ NO. DF15001.2008014</b>										<b>0.01</b>		<b>*</b>		<b>1</b>		<b>201</b>	<b>1,392</b>	<b>100</b>	<b>654</b>	<b>85</b>	<b>23</b>	<b>5</b>	<b>100</b>	<b>100</b>	<b>484</b>	<b>40</b>	<b>0.30</b>		<b>1</b>		<b>150</b>
DF15001.2015010	Camden	3	SR 1145 (TRAFTON RD.)	1.16 MILES NORTH OF NC 343	1	2	2WU	NO	NO	0.01	20	*			1	80	460	100	312	57	20	4	100	100	484	40	0.10			1	31
<b>TOTAL FOR MAP NO. 3</b>										<b>0.01</b>		<b>*</b>		<b>1</b>		<b>80</b>	<b>460</b>	<b>100</b>	<b>312</b>	<b>57</b>	<b>20</b>	<b>4</b>	<b>100</b>	<b>100</b>	<b>484</b>	<b>40</b>	<b>0.10</b>			<b>1</b>	<b>31</b>
<b>TOTAL FOR PROJ NO. DF15001.2015010</b>										<b>0.01</b>		<b>*</b>		<b>1</b>		<b>80</b>	<b>460</b>	<b>100</b>	<b>312</b>	<b>57</b>	<b>20</b>	<b>4</b>	<b>100</b>	<b>100</b>	<b>484</b>	<b>40</b>	<b>0.10</b>			<b>1</b>	<b>31</b>
<b>GRAND TOTAL</b>										<b>0.03</b>		<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>781</b>	<b>2,975</b>	<b>360</b>	<b>1,597</b>	<b>216</b>	<b>63</b>	<b>14</b>	<b>300</b>	<b>300</b>	<b>1,443</b>	<b>120</b>	<b>0.65</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>341</b>

PROJECT REFERENCE NO. X-XXXX	SHEET NO. EC-26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

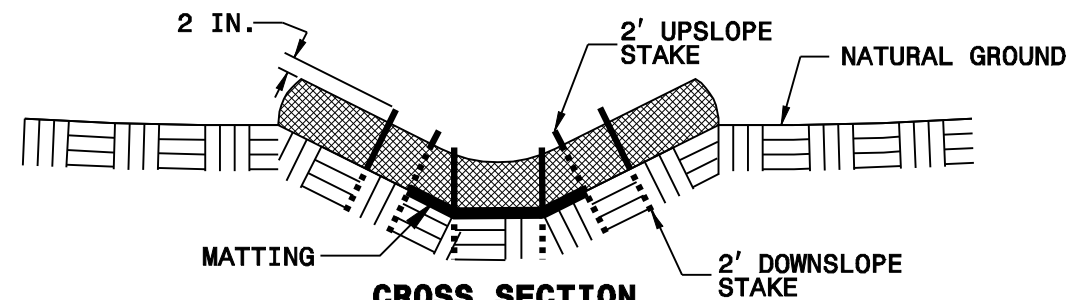
# COIR FIBER WATTLE DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION  
VEE DITCH**



**CROSS SECTION  
TRAPEZOIDAL DITCH**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

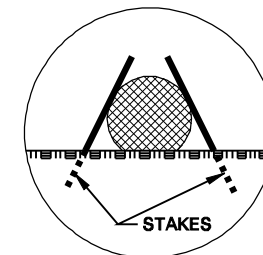
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

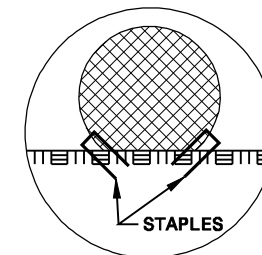
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

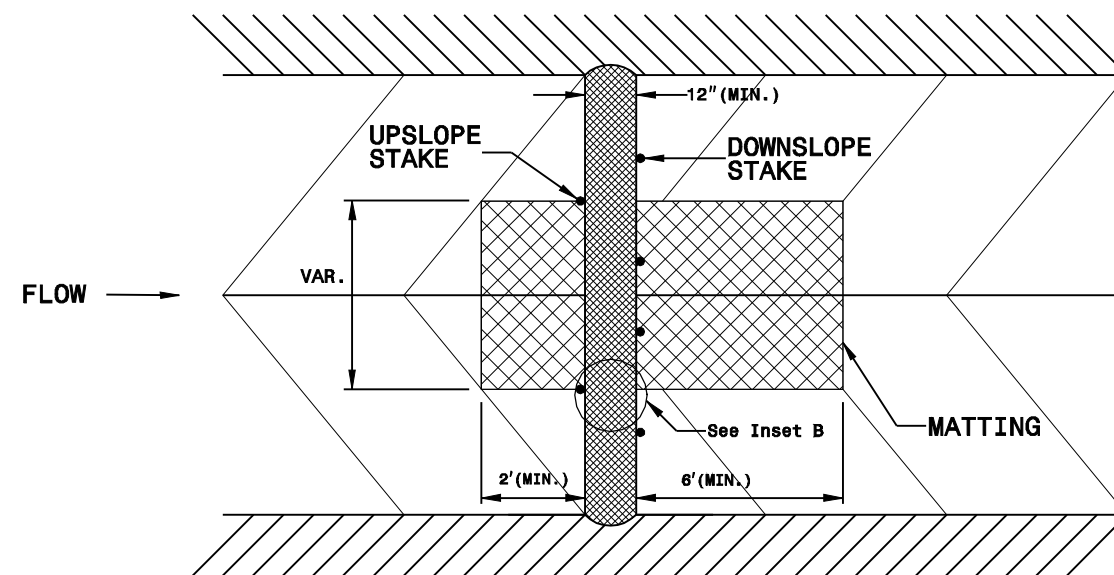
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



**INSET A**



**INSET B**

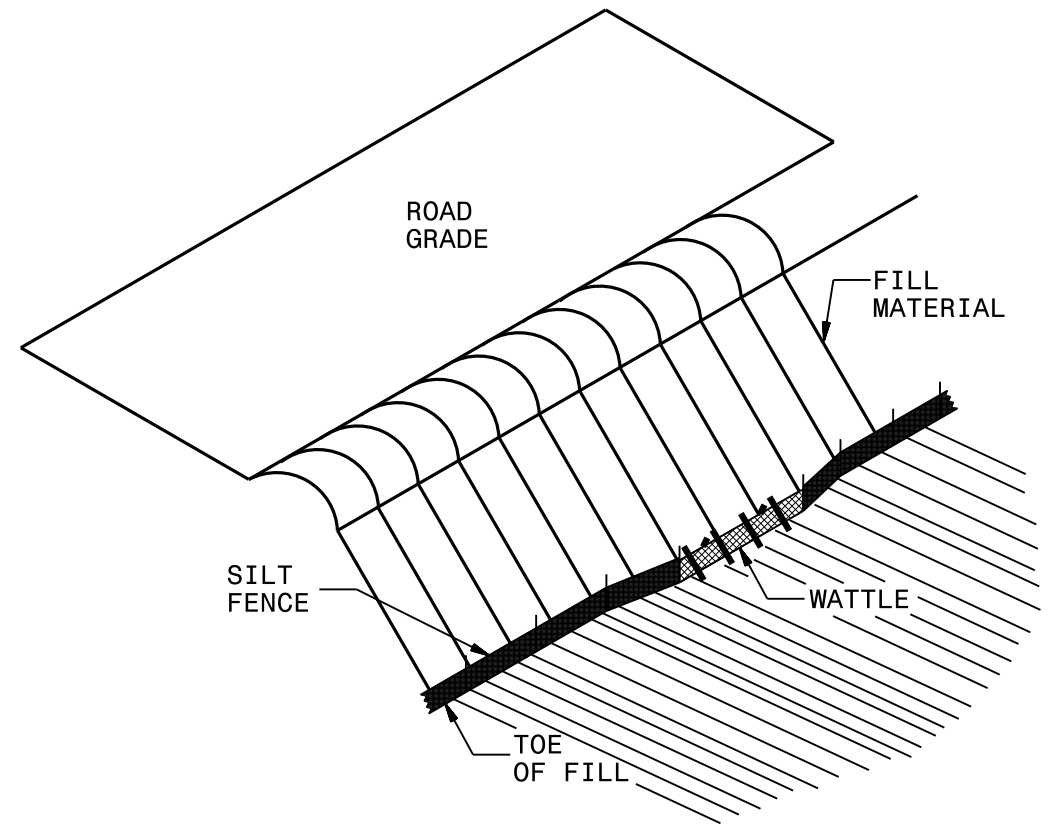


**TOP VIEW**



# SILT FENCE COIR FIBER WATTLE BREAK DETAIL

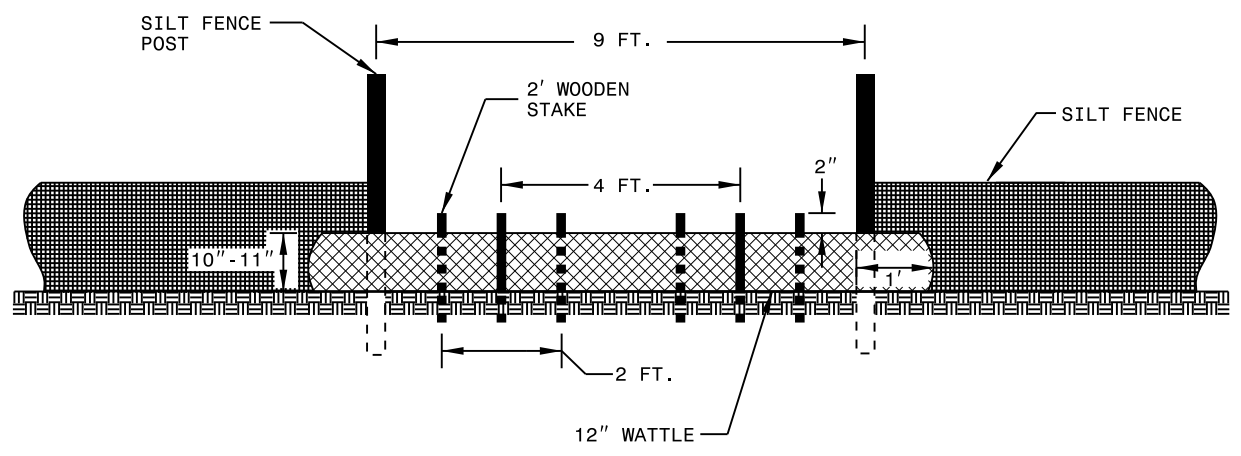
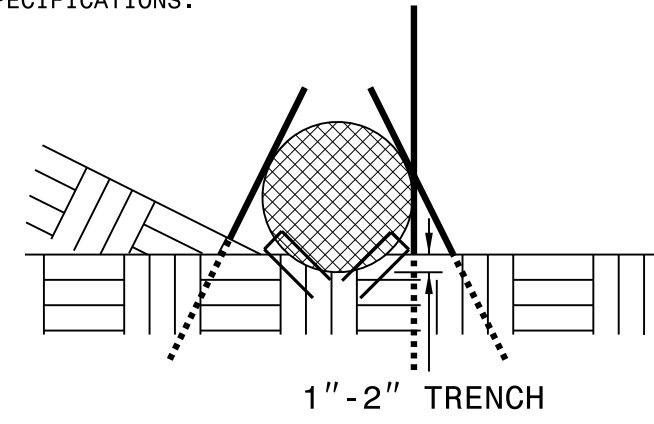
PROJECT REFERENCE NO. X-XXXX		SHEET NO. EC-2G	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



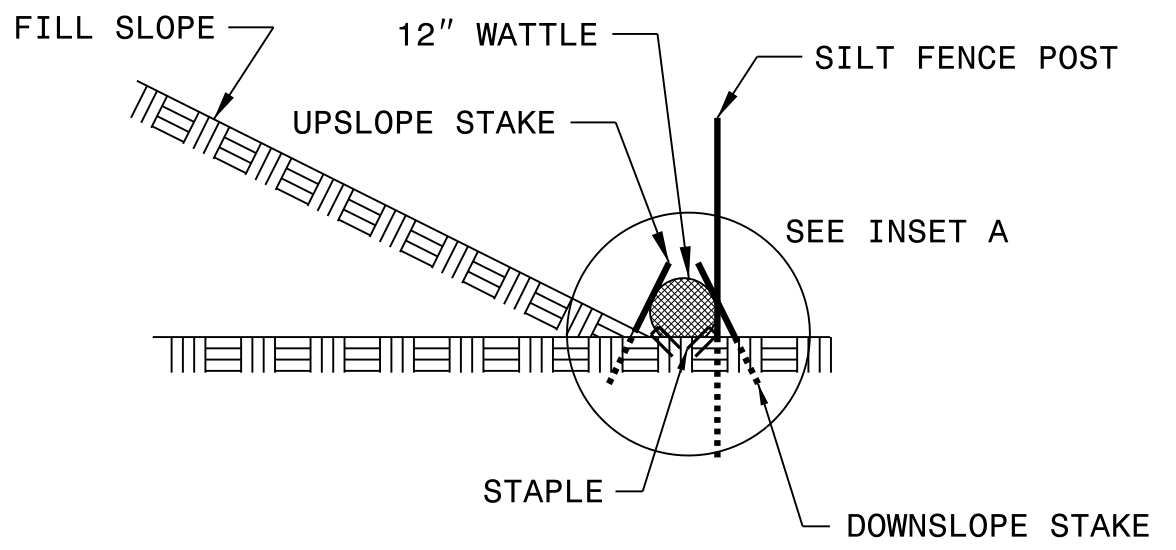
**ISOMETRIC VIEW**

- NOTES:**
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
  - EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
  - DO NOT PLACE WATTLE ON TOE OF SLOPE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
  - 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.
  - WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.
  - INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

**INSET A**



**VIEW FROM SLOPE**



**SIDE VIEW**