Map 1

Map 2

Map 3

Map 4

N

0 0.5 1 Miles

Legend

- Bridge Pipe
- Primary Route
- Secondary Route
- USA Topo Maps

Nothing Compares NORTH CAROLINA

DA00330
Division 1 NCDOT
November 16, 2016
Map Scale: 1 inch=1 mile

Bridge Pipe Replacements
SR 1114, SR 1207, SR1311 & NC 32
Chowan County & Perquimans County

Bridge Pipe Replacement

NC 32, Virginia Road

Chowan County

Identification: Map 1

Latitude: 36.215773

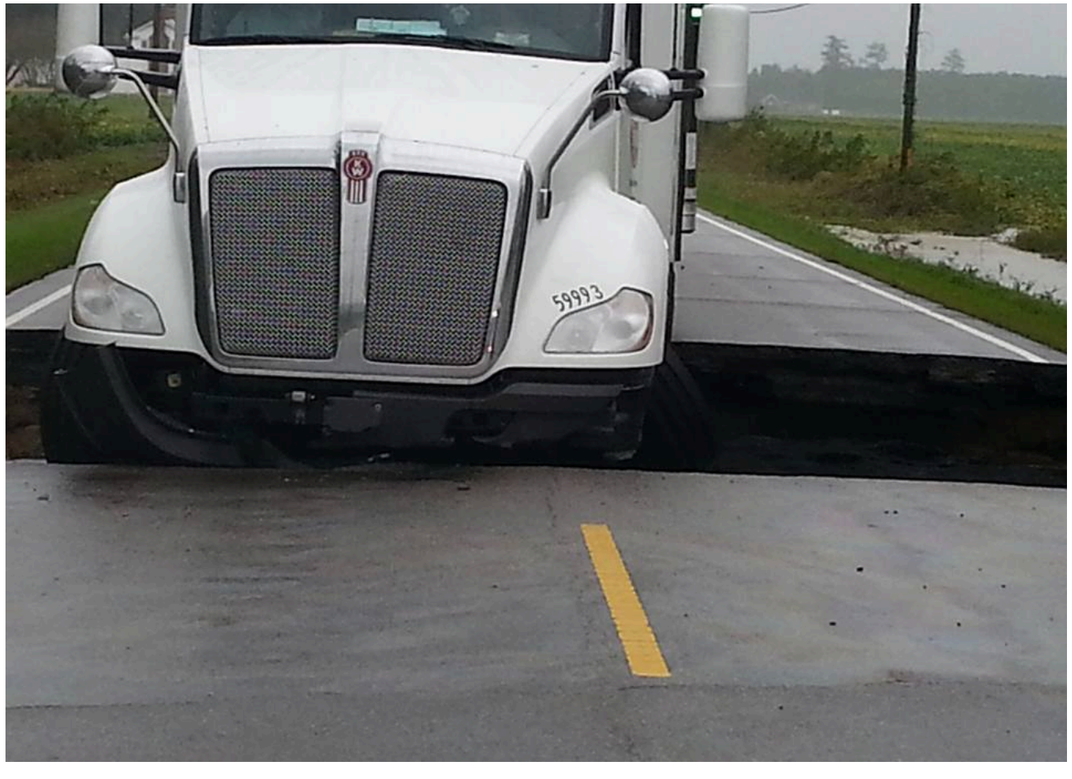
Longitude: -76.657520

Existing Pipe: 2 @ 6’ x 3’ x34’ RCBC

Proposed Pipe: 15’-4” x 6’-5” x 40.5’ ABC with Headwalls

NCFMP required

Perform in DRY



Bridge Pipe Replacement

SR 1207, Rocky Hock Creek Road

Chowan County

Identification: Map 2

Latitude: 36.139732

Longitude: -76.679931

Existing Pipe: 2 @ 42” x 44’ and 2 @ 24” x 36’ RCP

Proposed Pipe: 2 @ 72” x 38’ CAP with Headwalls

NCFMP not required

Perform in WET

Bridge Pipe Replacement

SR 1311, Yellow Hammer Road

Chowan County

Identification: Map 3

Latitude: 36.232901

Longitude: -76.637084

Existing Pipe: 3 @ 60” x 60’ CMP

Proposed Pipe: 22’-1” x 9’-3” x 45’ ABC with Headwalls

NCFMP not required

Perform in DRY

Bridge Pipe Replacement

SR 1114, Chinquapin Road

Perquimans County

Identification: Map 4

Latitude: 36.230509

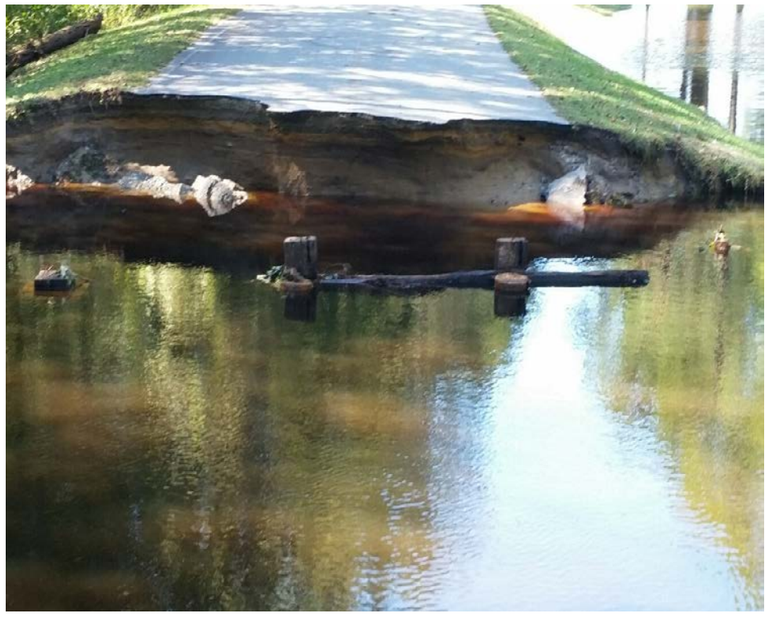
Longitude: -76.563357

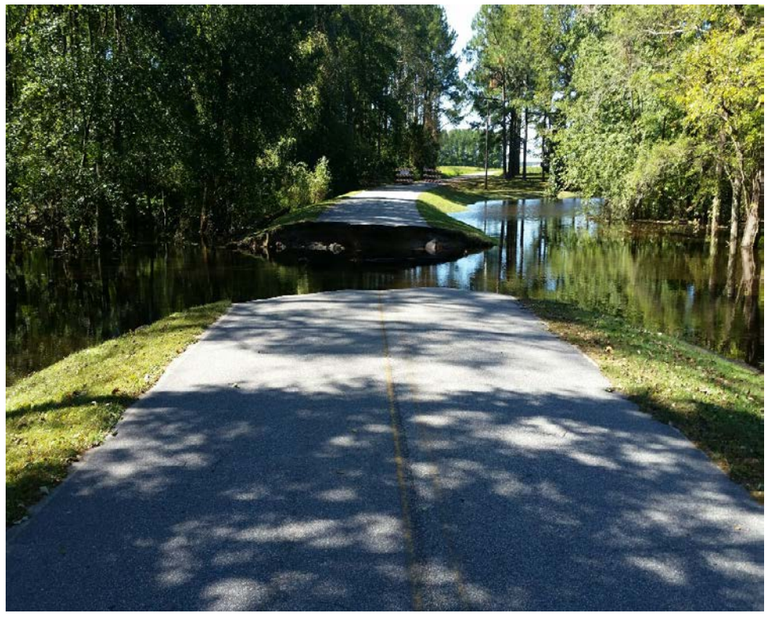
Existing Pipe: 25’-2” x 6’-2” x 49’-6” ABC

Proposed Pipe: 25’-2” x 6’-2” x 49’-6” ABC with Headwalls

NCFMP not required

Perform in DRY





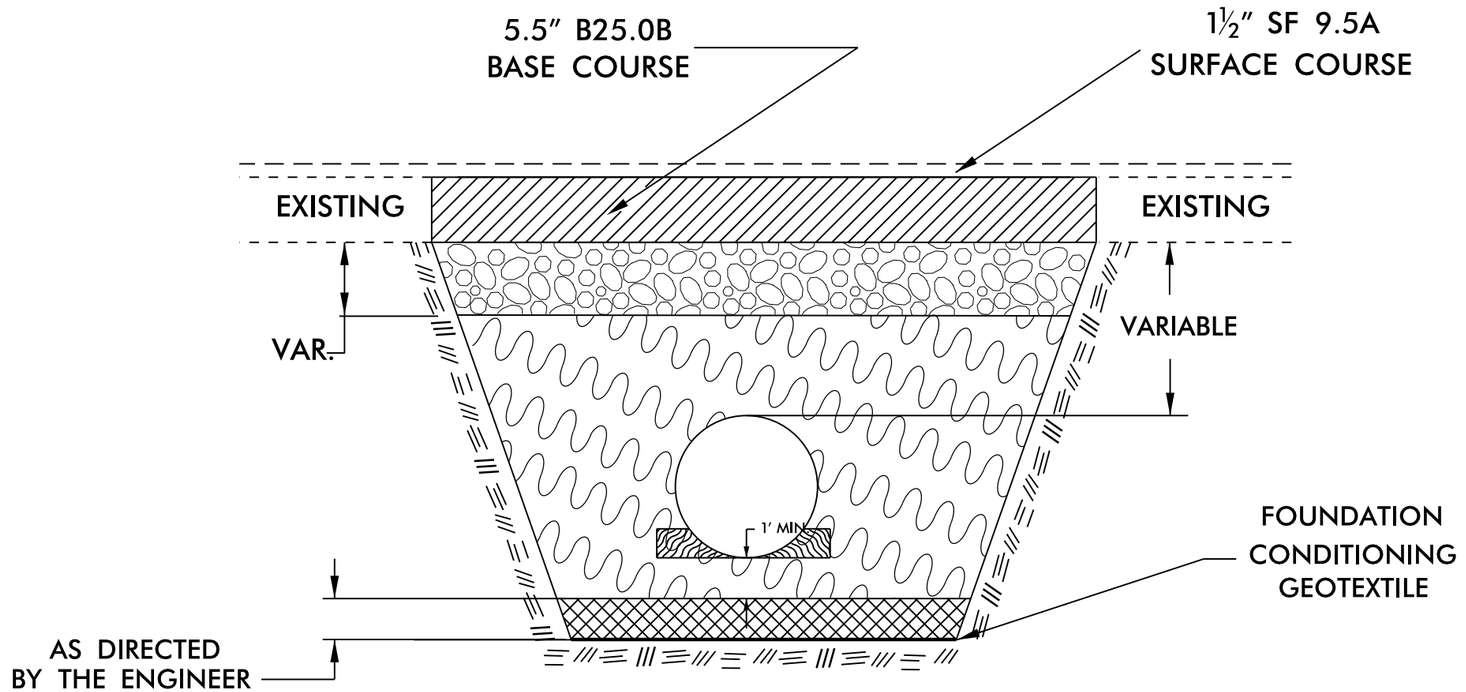
PROJECT NO.	SHEET NO.	TOTAL NO.
15001.1021010, DF15001.2021010		
DF15001.2021015, ETC.		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	GRADING (MAP 1, NC 32) LS	GRADING (MAP 2, ROCKY HOCK) LS	GRADING (MAP 3, YELLOW HAMMER) LS	GRADING (MAP 4, CHINQUAPIN) LS	BORROW EXCAV CY	FND CONDIT 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 EROSION CONTROL ITEM (DEWATERING, MAP 4) LS	GENERIC CULVERT ITEM (ADDITIONAL CULVERT UNDERCUT) CY
15001.1021010	Chowan	1	NC 32 (VIRGINIA RD.)	0.45 MILES NORTH OF SR 1226	1	2	2WU	NO	NO	0.01	20	1	1				124	324	100	794	86	23	5	100	100	484	40	0.1	1				68
TOTAL FOR MAP NO. 1										**0.01**		*	**1**				**124**	**324**	**100**	**794**	**86**	**23**	**5**	**100**	**100**	**484**	**40**	**0.1**	**1**				**68**
TOTAL FOR PROJ NO. 15001.1021010										**0.01**		*	**1**				**124**	**324**	**100**	**794**	**86**	**23**	**5**	**100**	**100**	**484**	**40**	**0.1**	**1**				**68**
DF15001.2021010	Chowan	2	SR 1207 (ROCKY HOCK RD.)	0.38 MILES EAST OF SR 1307	1	2	2WU	NO	NO	0.01	20	*		1			78	385	100	315	62	17	4	100	100	484	40	0.1		1			50
TOTAL FOR MAP NO. 2										**0.01**		*		**1**			**78**	**385**	**100**	**315**	**62**	**17**	**4**	**100**	**100**	**484**	**40**	**0.1**		**1**			**50**
TOTAL FOR PROJ NO. DF15001.2021010										**0.01**		*		**1**			**78**	**385**	**100**	**315**	**62**	**17**	**4**	**100**	**100**	**484**	**40**	**0.1**		**1**			**50**
DF15001.2021015	Chowan	3	SR 1311 (YELLOW HAMMER RD.)	0.49 MILES NORTH OF SR 1002	1	2	2WU	NO	NO	0.01	20	*			1		1,200	2,247	125	1,131	118	32	7	100	100	100	40	0.3			1		123
TOTAL FOR MAP NO. 3										**0.01**		*			**1**		**1,200**	**2,247**	**125**	**1,131**	**118**	**32**	**7**	**100**	**100**	**100**	**40**	**0.3**			**1**		**123**
TOTAL FOR PROJ NO. DF15001.2021015										**0.01**		*			**1**		**1,200**	**2,247**	**125**	**1,131**	**118**	**32**	**7**	**100**	**100**	**100**	**40**	**0.3**			**1**		**123**
DF5001.2072010	Perquimans	4	SR 1114 (CHINQUAPIN RD.)	0.85 MILES EAST OF SR 1116	1	2	2WU	NO	NO	0.01	20	*				1	432	828	140	595	98	26	6	100	100	100	40	0.5				1	25
TOTAL FOR MAP NO. 4										**0.01**		*				**1**	**432**	**828**	**140**	**595**	**98**	**26**	**6**	**100**	**100**	**100**	**40**	**0.5**				**1**	**25**
TOTAL FOR PROJ NO. DF5001.2072010										**0.01**		*				**1**	**432**	**828**	**140**	**595**	**98**	**26**	**6**	**100**	**100**	**100**	**40**	**0.5**				**1**	**25**
GRAND TOTAL										**0.04**		**1**	**1**	**1**	**1**	**1**	**1,834**	**3,784**	**465**	**2,835**	**364**	**98**	**22**	**400**	**400**	**1,168**	**160**	**1**	**1**	**1**	**1**	**1**	**266**

PROJECT REFERENCE NO.	SHEET NO.
DA00330	

INSTALLATION DETAIL



CORRUGATED ALUMINUM ALLOY PIPE /CULVERT

TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL

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

UNDISTURBED EARTH MATERIAL

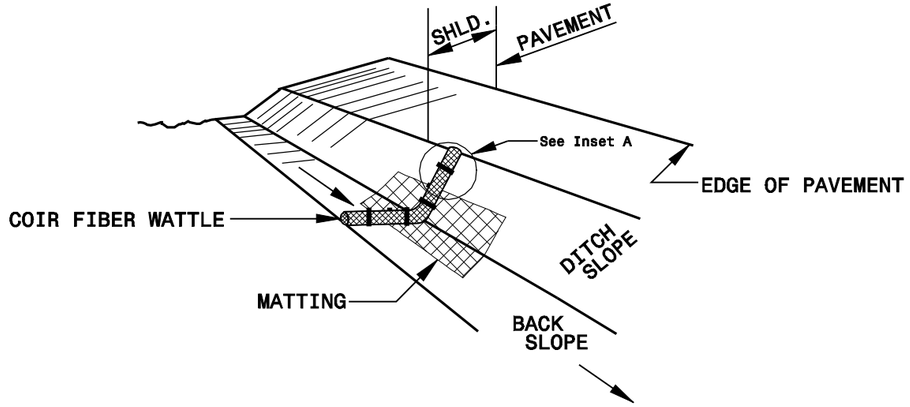
– NOT TO SCALE –

REVISIONS

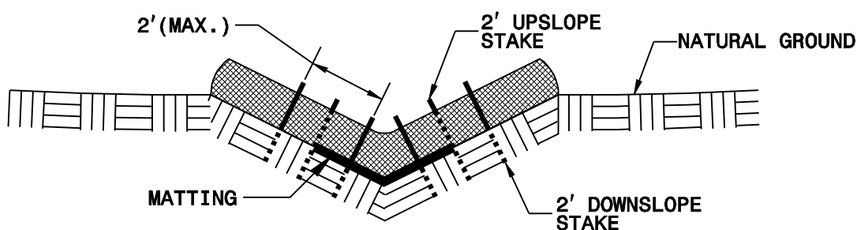
18-NOV-2016 10:02
C:\Users\esingh\Desktop\DA\CurrentProjects\DIVISION PROJECT WORKING FILES\Bridge Maintenance\Division Wide\DA00330 Pipe_Culvert Replacements Chowan & Perquimans Co.(Mathew 2016)\1) Pre-Bid Documents\DA00330_Typicals.dgn

PROJECT REFERENCE NO.	SHEET NO.
DA00330	
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

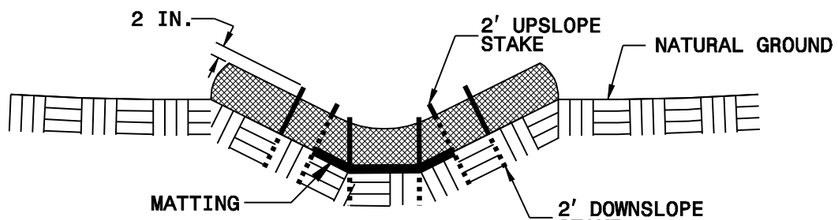
COIR FIBER WATTLE DETAIL



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.

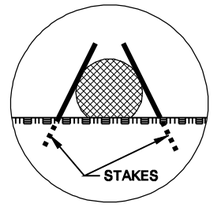
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

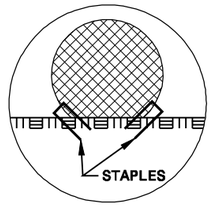
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

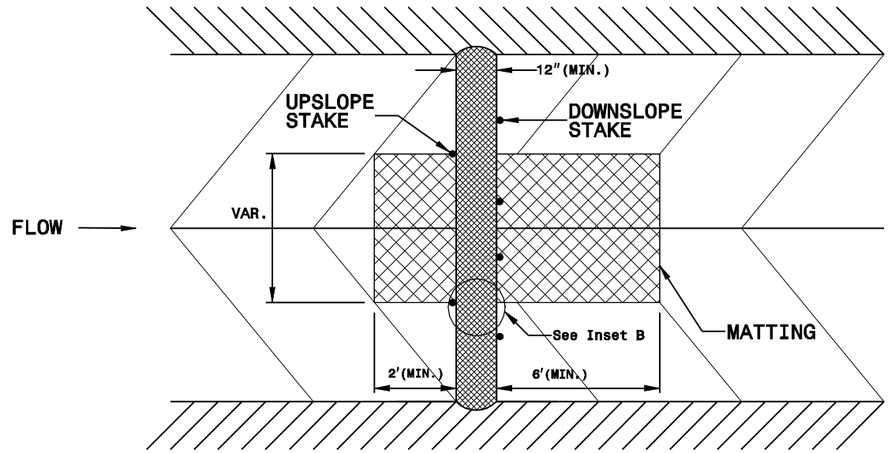
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



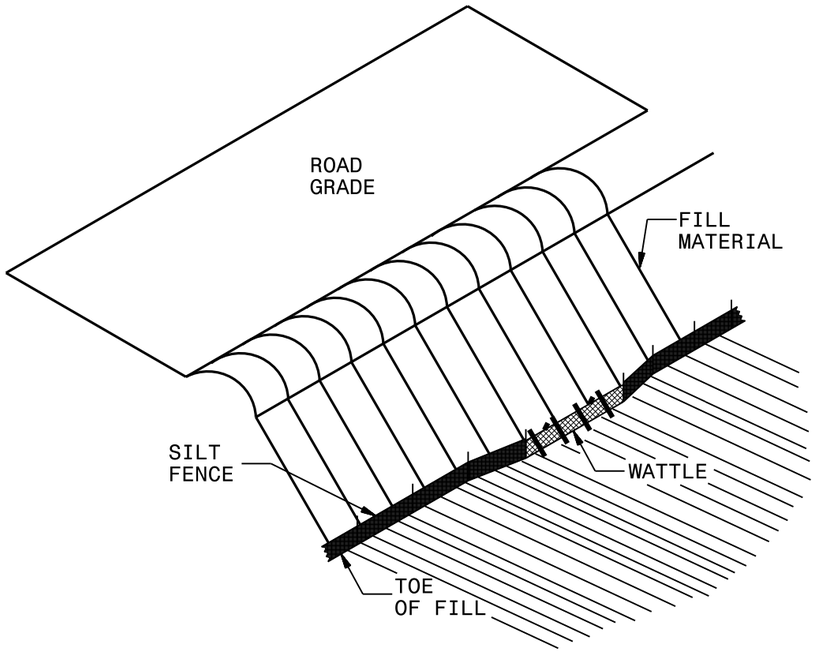
INSET B



TOP VIEW

SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO.	SHEET NO.
DA00330	
R/W 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.

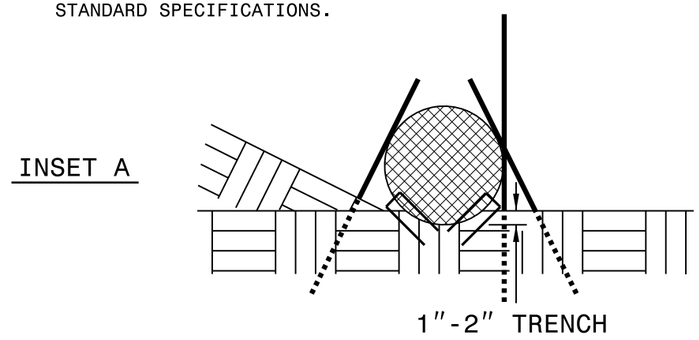
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

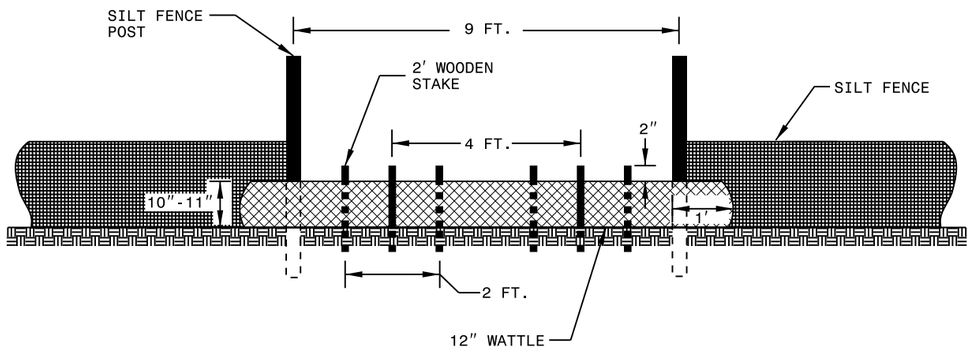
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

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

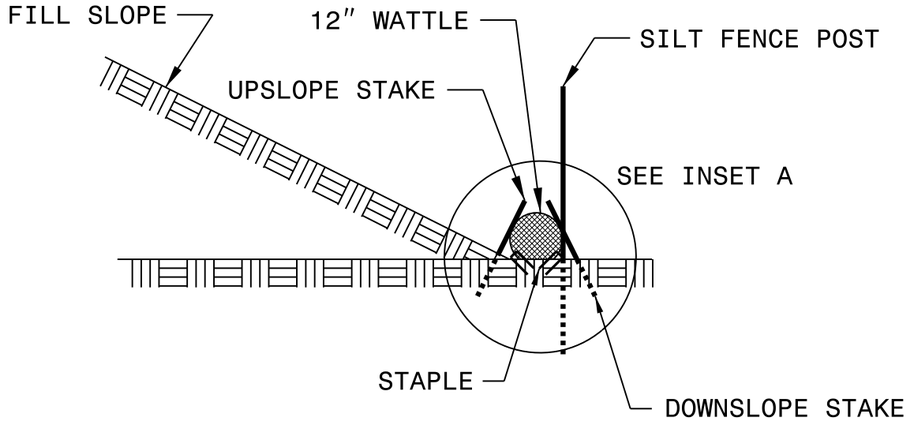
WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.





VIEW FROM SLOPE



SIDE VIEW