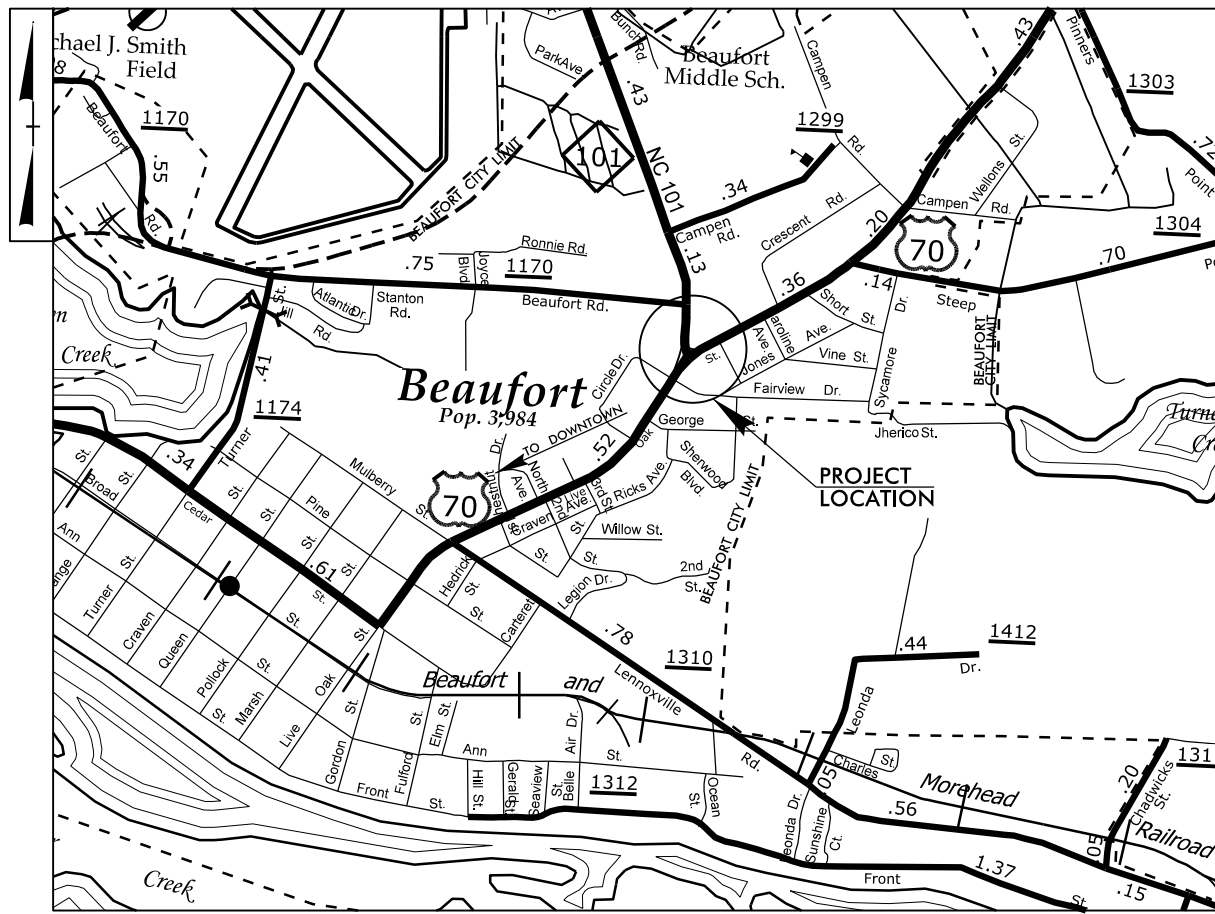


TIP PROJECT: U-6058

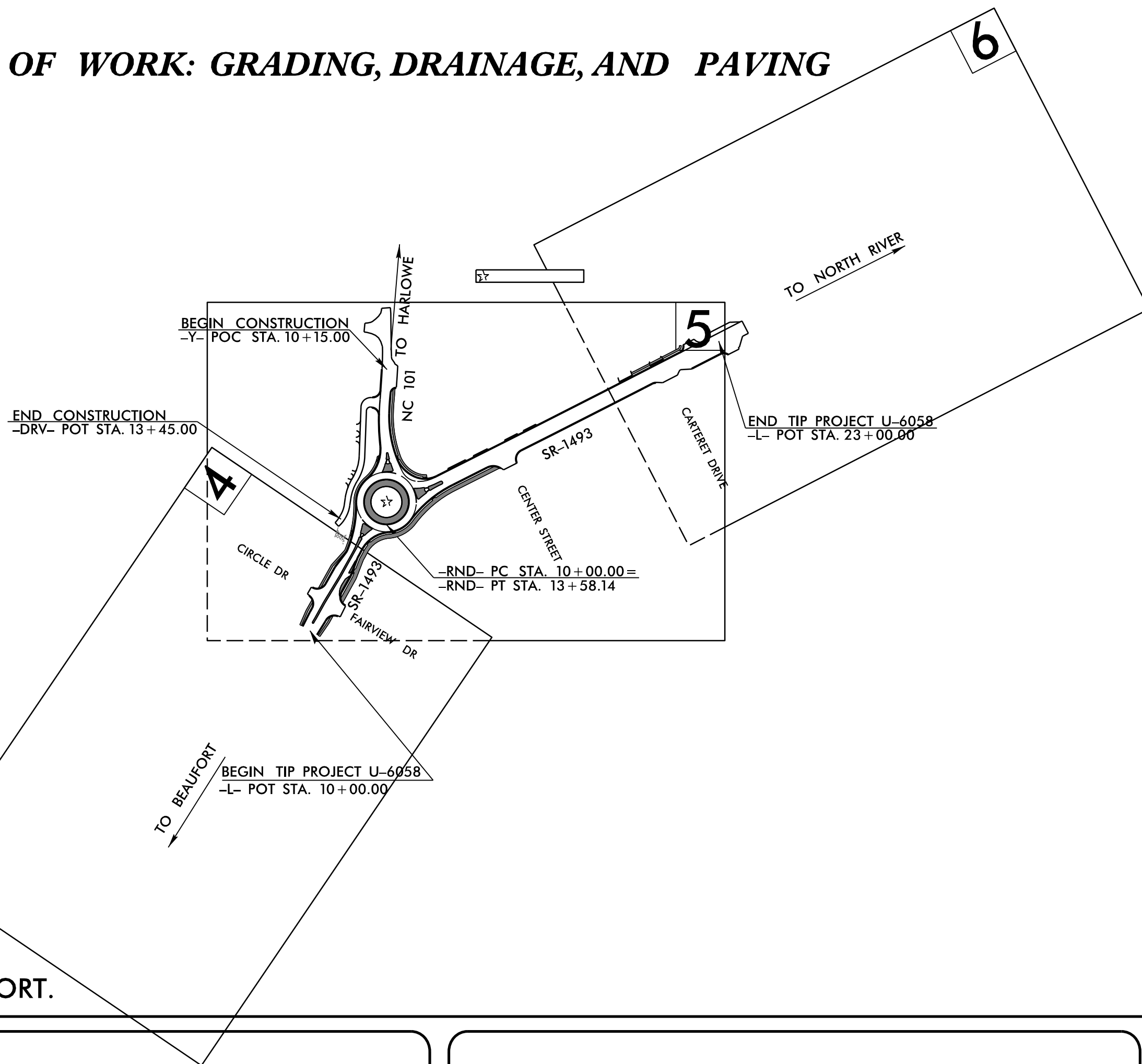


VICINITY MAP
NOT TO SCALE

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

LOCATION: SINGLE LANE ROUNDABOUT AT THE INTERSECTION OF SR-1493
(LIVE OAK STREET) AND NC 101 IN CARTERET COUNTY

TYPE OF WORK: GRADING, DRAINAGE, AND PAVING

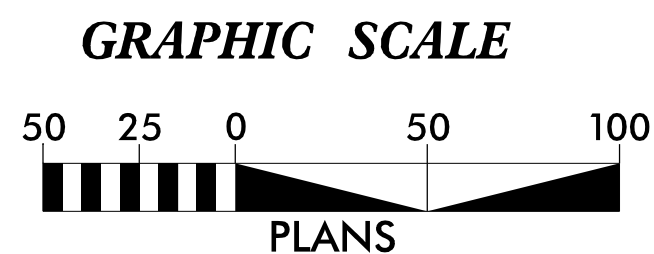


ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST
ON THIS PROJECT
*Refer To E. C. Special Provisions
for Special Considerations.*

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

THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF BEAUFORT.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL
STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH
CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION
OF ENERGY, MINERAL, AND LAND RESOURCES.

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Prepared in the Office of:

TranSystems
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Suite 600
Raleigh, NC 27603

Designed by:

J. Taylor Williams, PE
NAME

4029
LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C.
Department of Transportation - Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.
U-6058

SHEET NO.
EC-2

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EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

EROSION & SEDIMENT CONTROL NOTES AND SEQUENCE

GENERAL CONSTRUCTION NOTES

- 1.) THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND OPERATION OF AN ADEQUATE DEWATERING SYSTEM CONSISTING OF WELL POINTS OR WELLS TO DEWATER EXCAVATIONS FOR PIPE CULVERT INSTALLATION.
- 2.) THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER FOR HIS RECORDS BEFORE BEGINNING CONSTRUCTION.
- 3.) THE WELL POINTS OR WELLS SHALL MAINTAIN THE WATER TABLE 3 FEET OR MORE BELOW THE MAXIMUM DEPTH OF EXCAVATION.
- 4.) PROVIDE CONTINUOUS DEWATERING UNTIL COMPLETING CONSTURCTION OF THE PIPE CULVERTS AND BACKFILL AT LEAST TO TOP OF PLANNED SUBGRADE ELEVATION.
- 5.) WHEN DEWATERING IS DISCONTINUED, DECREASE RATE OF PUMPING GRADUALLY SO WATER TABLE WILL RISE SLOWLY AT A RATE EQUAL TO THE NUMBER OF FEET THE WATER TABLE WAS LOWERED DIVIDED BY 10 OR AT THE RATE OF 1 FOOT PER HOUR, WHICHEVER IS LESS.
- 6.) INSTALL PIEZOMETER WELLS AS NEEDED TO A DEPTH OF 10 FEET BELOW THE MAXIMUM DEPTH OF EXCAVATION TO CONFIRM DRAWDOWN OF THE WATER TABLE PRIOR TO BEGINNING EXCAVATION AND MONITOR DURING PIPE CULVERT INSTALLATION AND AFTER DISCONTINUATION OF DEWATERING.
- 7.) THE COST OF DESIGN, INSTALLATION, OPERATION, MONITORING, AND REMOVAL OF THE DEWATERING SYSTEM INCLUDING ALL NECESSARY EQUIPMENT, PARTS, AND LABOR IS INCIDENTAL TO THE COST OF INSTALLATION OF PIPE CULVERTS AND SHALL BE INCLUDED IN THE APPLICABLE PIPE CULVERT PAY ITEMS PAID BY LINEAR FEET OF PIPE CULVERT FURNISHED AND INSTALLED.

GENERAL CONSTRUCTION SEQUENCE

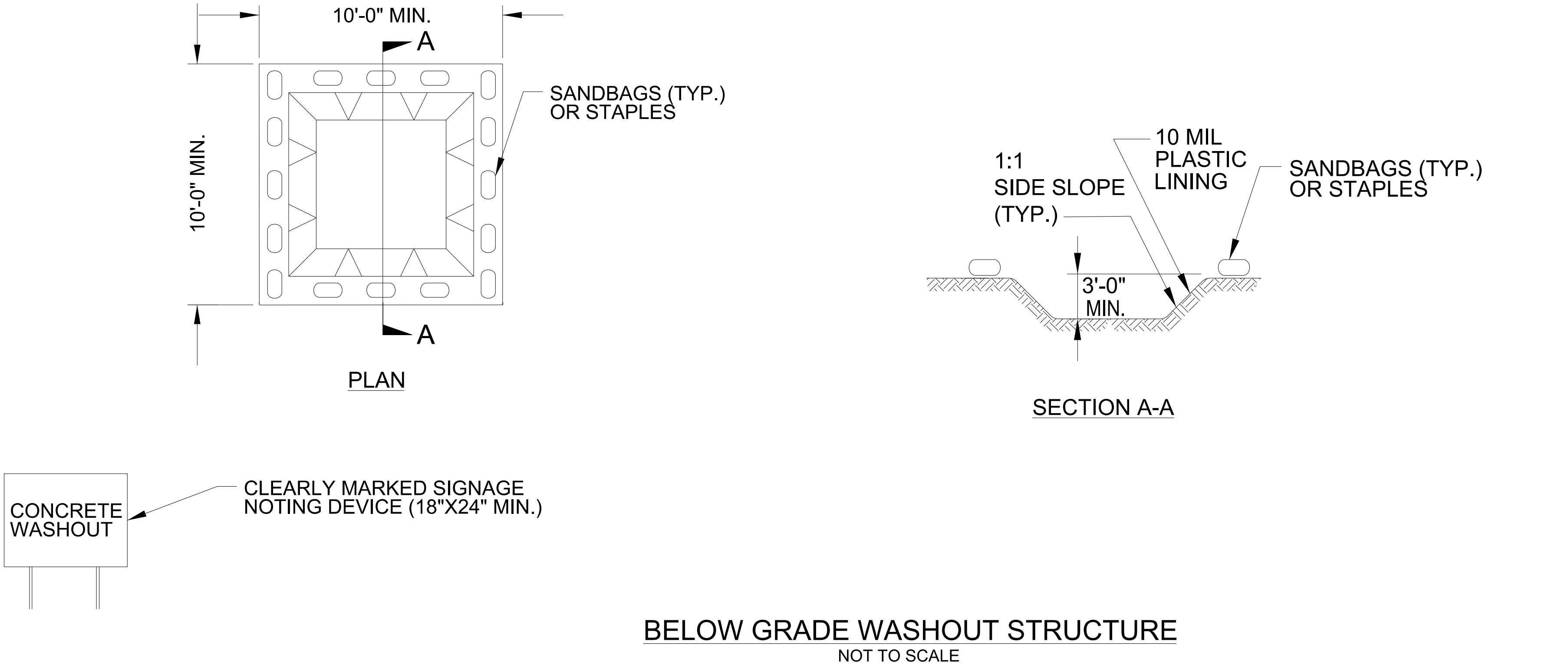
- 1.) UTILIZE WELL POINTS OR WELLS TO AID IN DEWATERING DURING CONSTRUCTION ACTIVITIES.
- 2.) AT THE BEGINNING OF EACH CONSTRUCTION SHIFT:

I.) PLUG EXISTING/PROPOSED DRAINAGE SYSTEM.

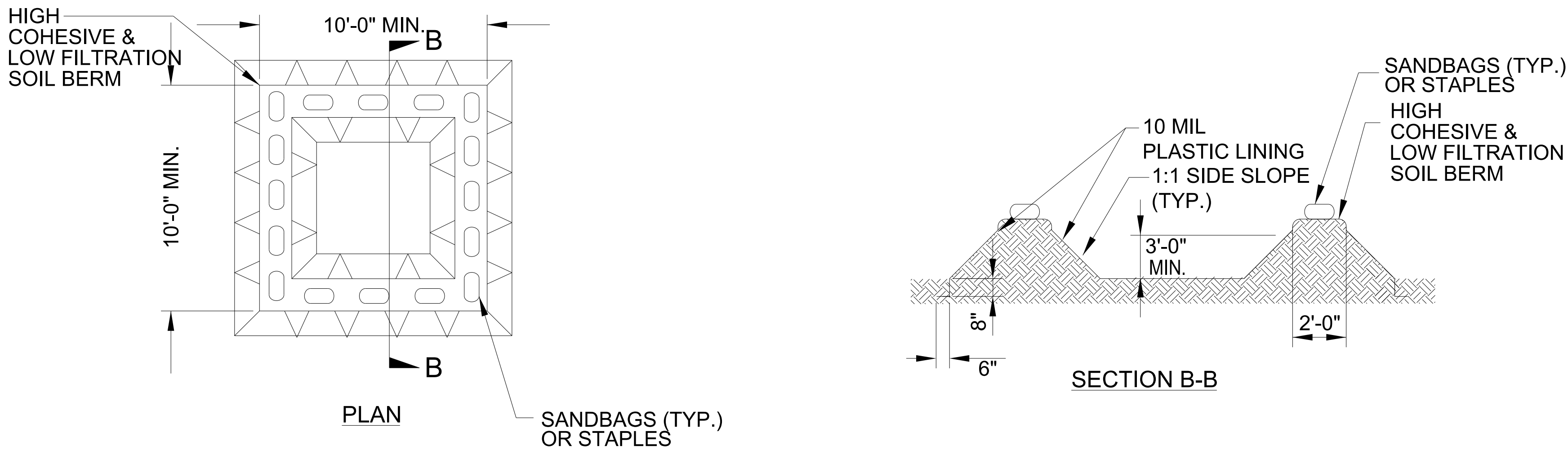
II.) INSTALL PUMPS AND TEMPORARY FLEXIBLE HOSES.

III.) BEGIN PUMPING OPERATIONS TO DRAIN EXISTING STORM DRAIN SYSTEM.
- 3.) EXCAVATE AREA FOR PROPOSED DRAINAGE STRUCTURES, PIPES, AND/OR WATERLINE INSTALLATION.
- 4.) DEWATER CONSTRUCTION AREA, UTILIZING SPECIAL STILLING BASIN(S) (OR SELF-CONTAINED DEVICES WHERE NOTED) FOR PUMPED EFFLUENT.
- 5.) INSTALL PROPOSED DRAINAGE STRUCTURES, PIPES, AND/OR WATERLINES.
- 6.) AT THE END OF EACH CONSTRUCTION SHIFT, REMOVE ANY TEMPORARY PLUGS FROM PROPOSED/EXISTING SYSTEMS TO ALLOW DRAINAGE SYSTEM TO FUNCTION.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



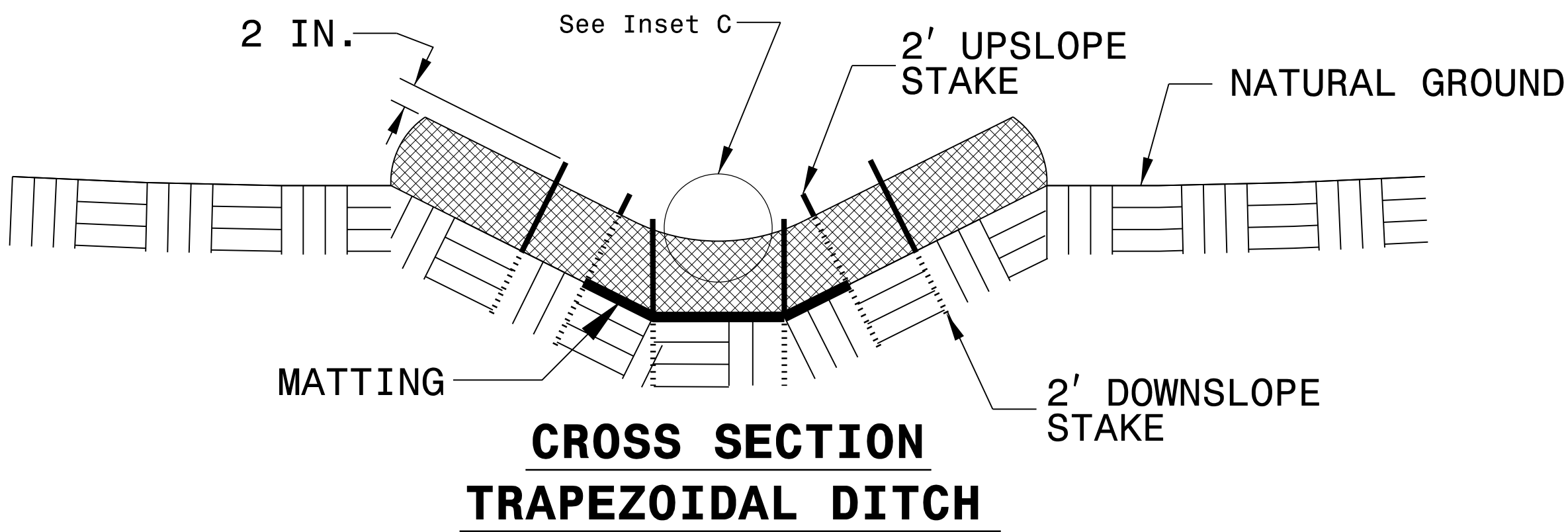
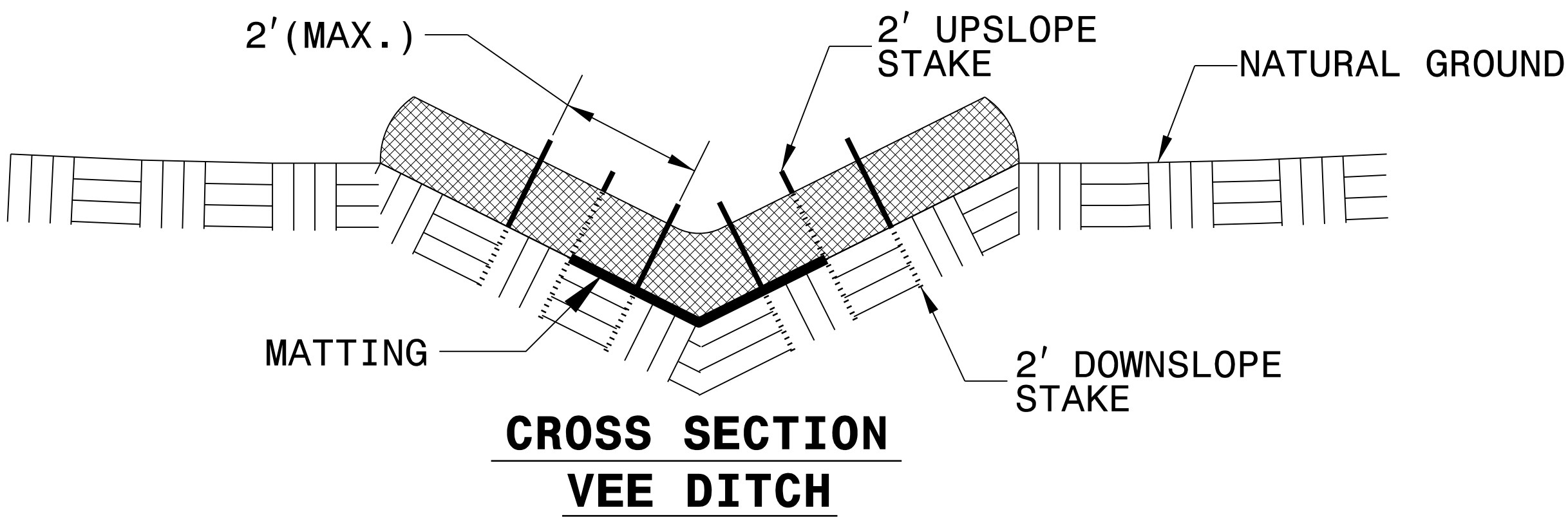
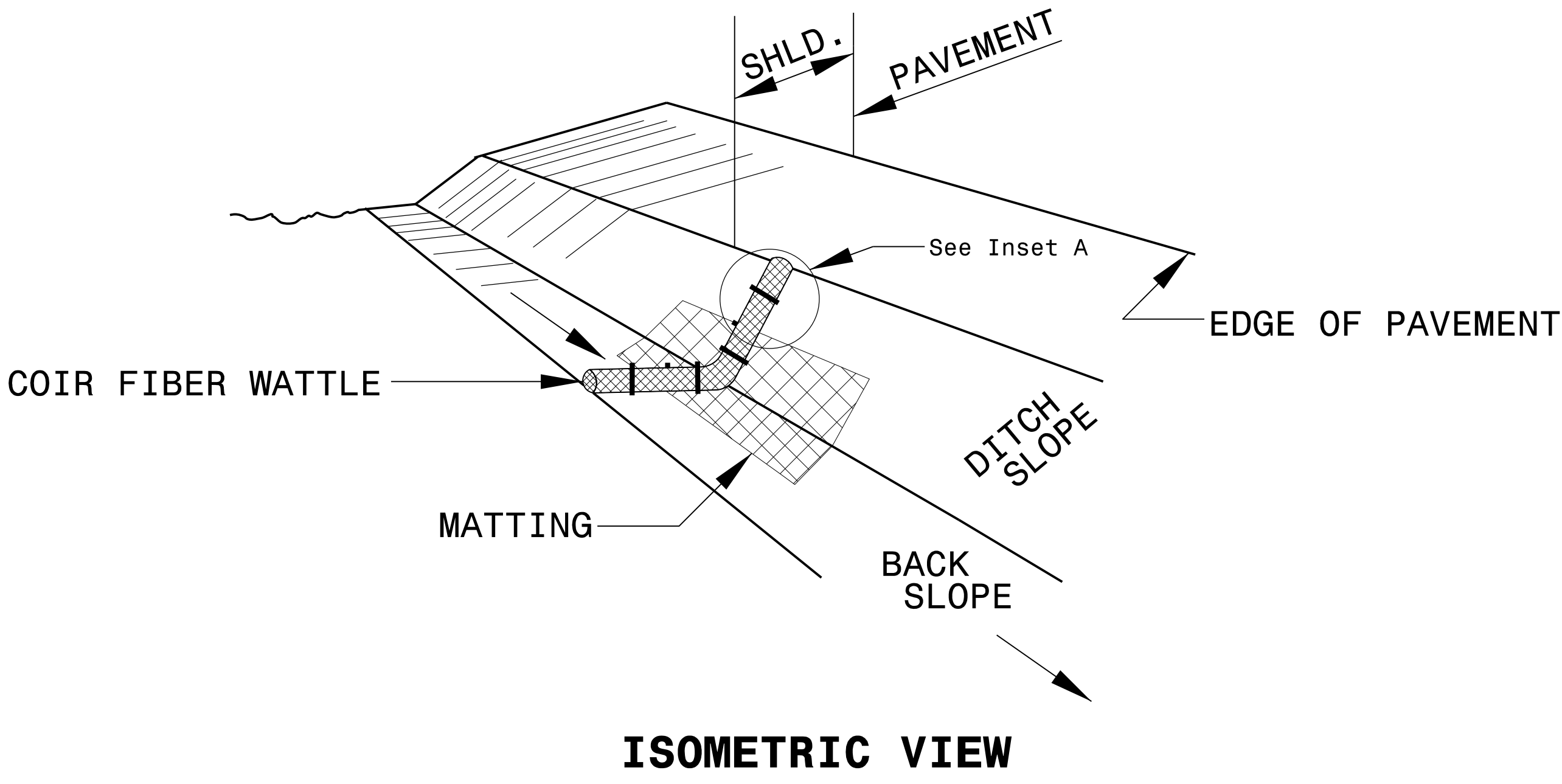
- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



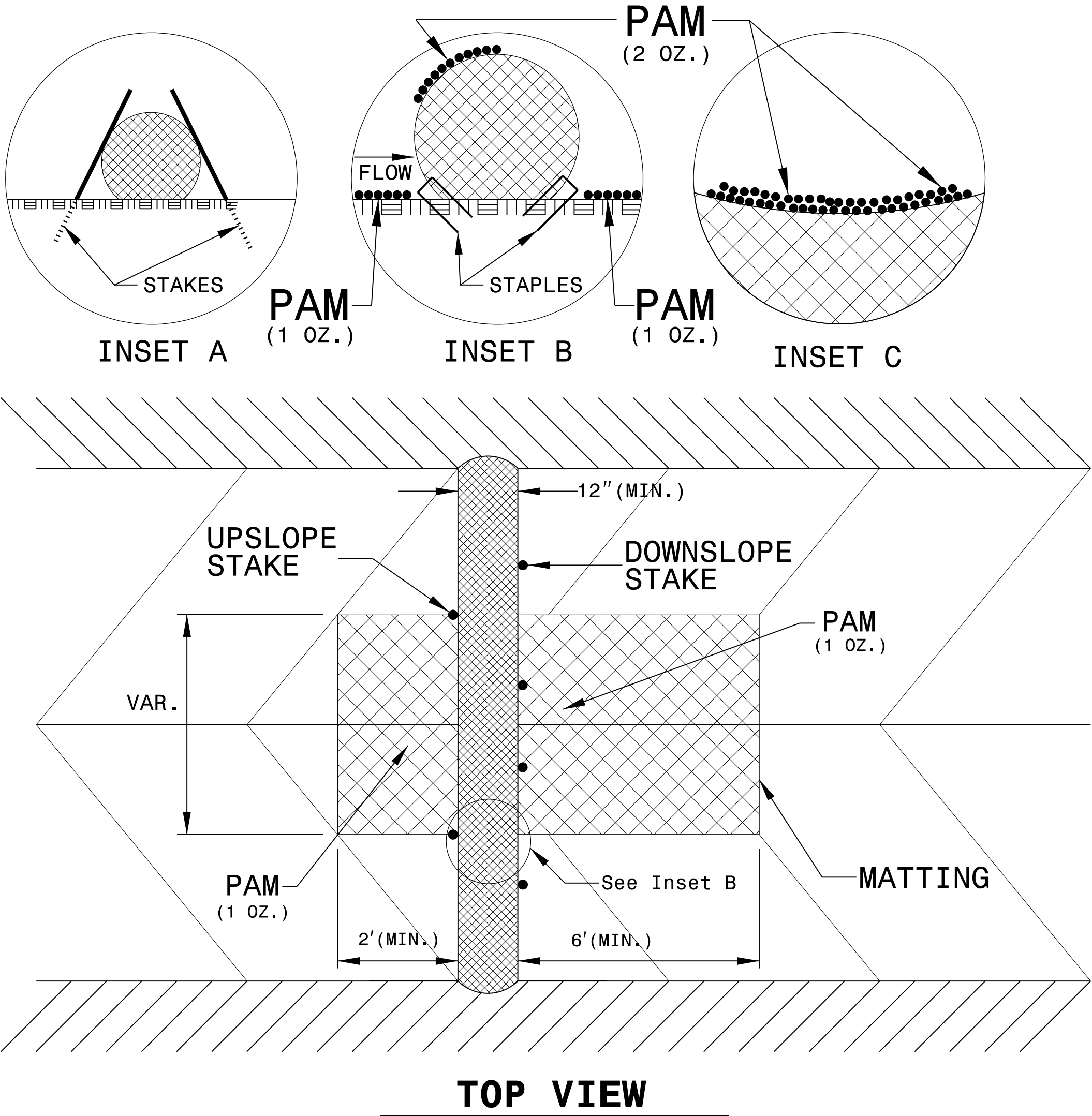
- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

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- 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.
 - 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.

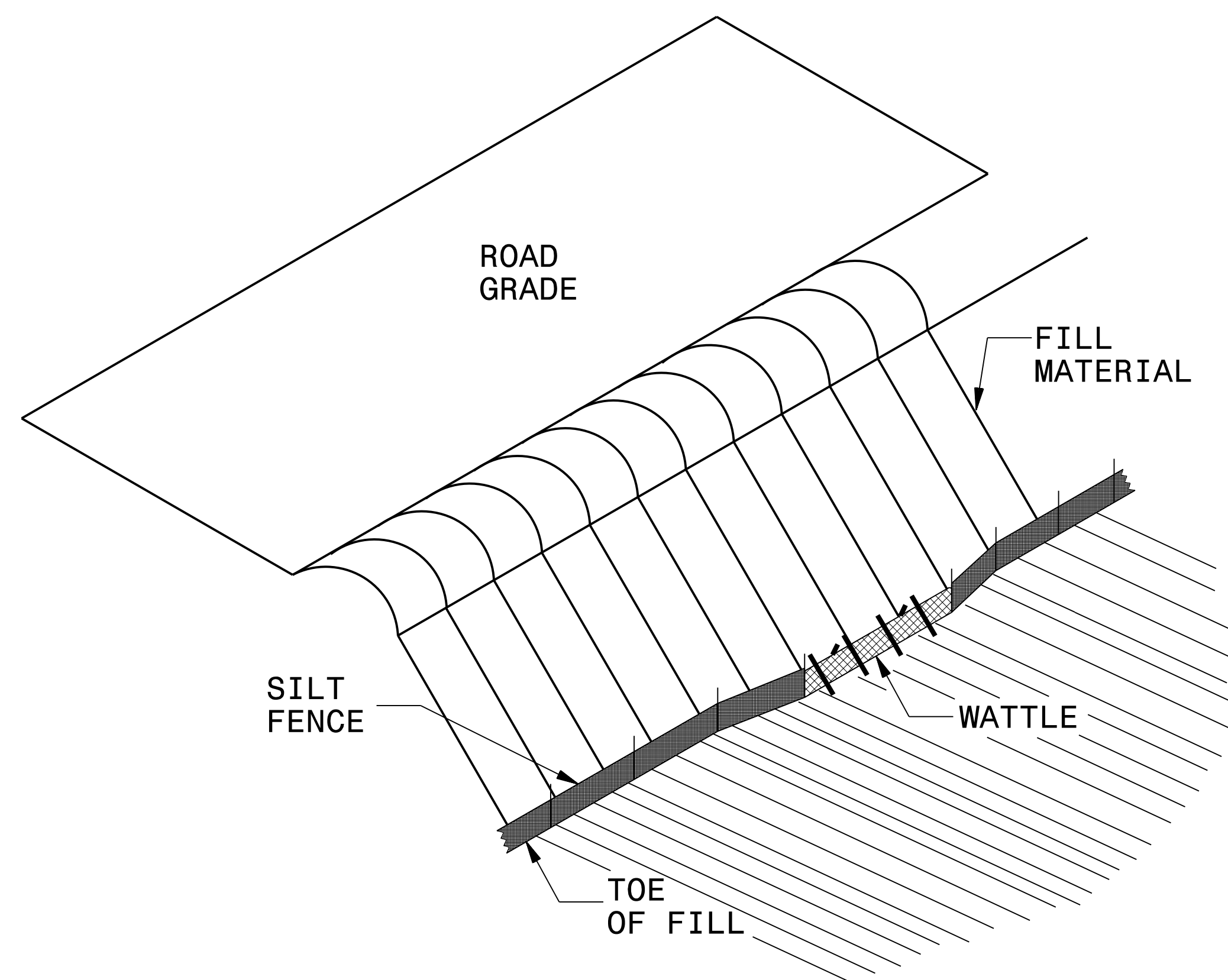


SILT FENCE COIR FIBER WATTLE BREAK DETAIL

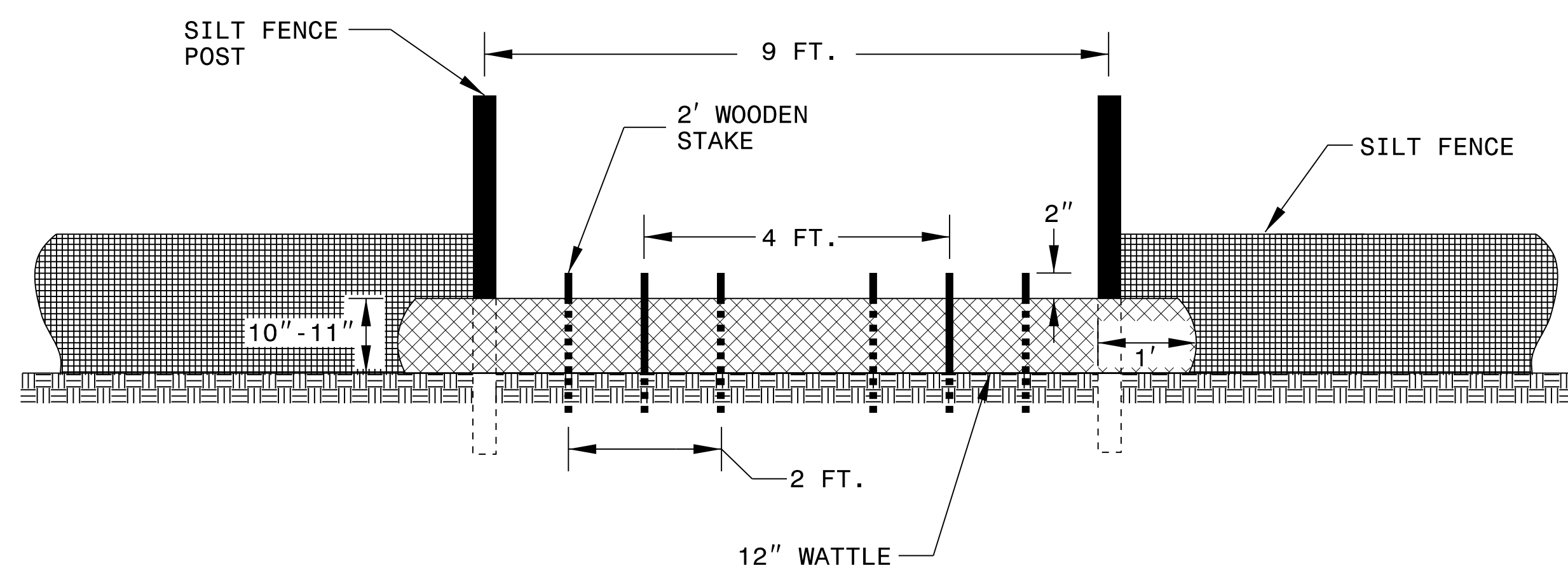
PROJECT REFERENCE NO.	SHEET NO.
U-6058	EC-2D

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ISOMETRIC VIEW



VIEW FROM SLOPE

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.

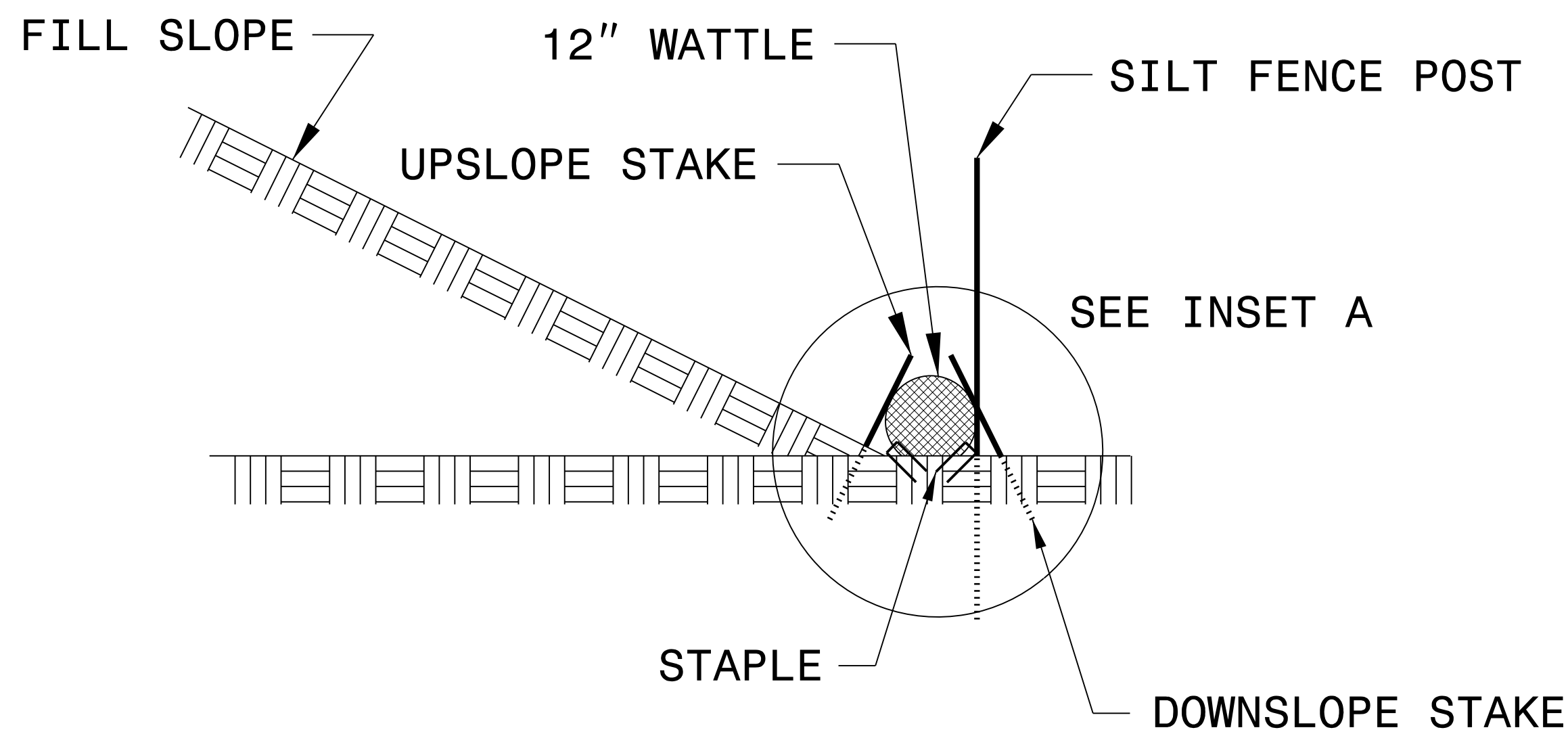
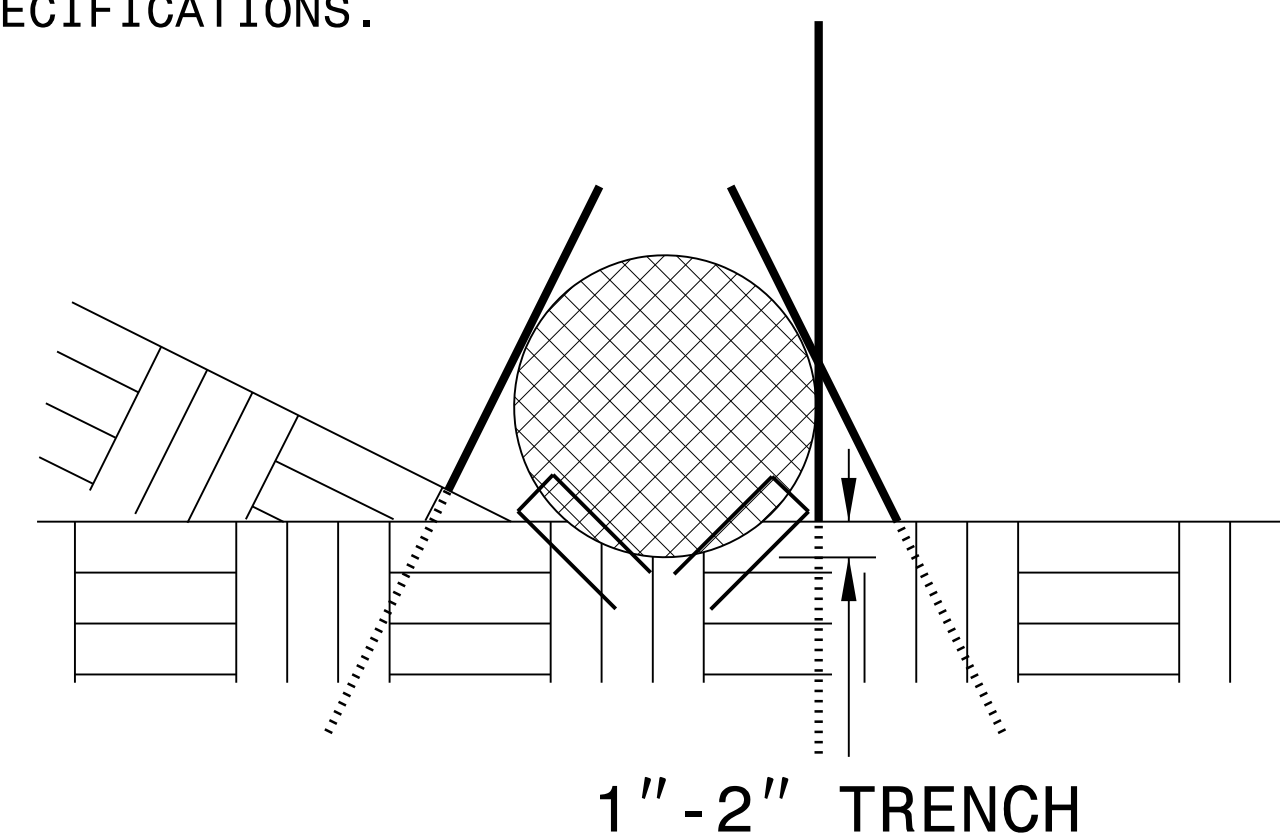
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

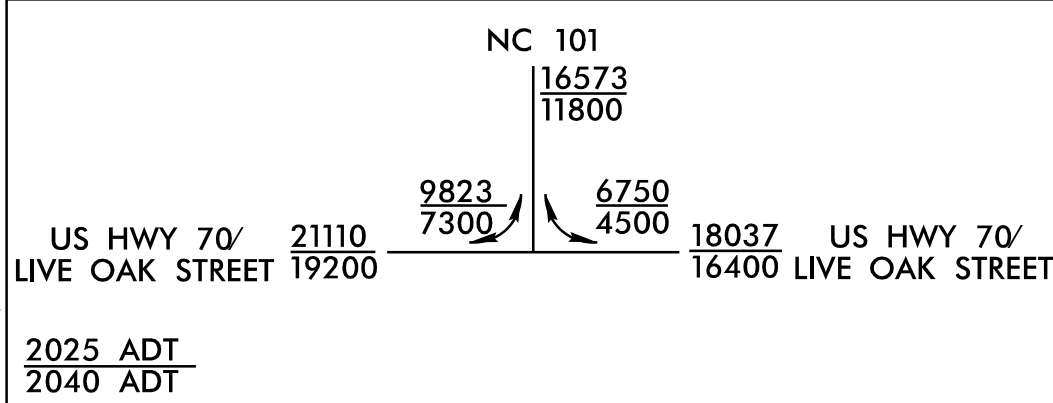


SIDE VIEW

SOIL STABILIZATION TIMEFRAMES

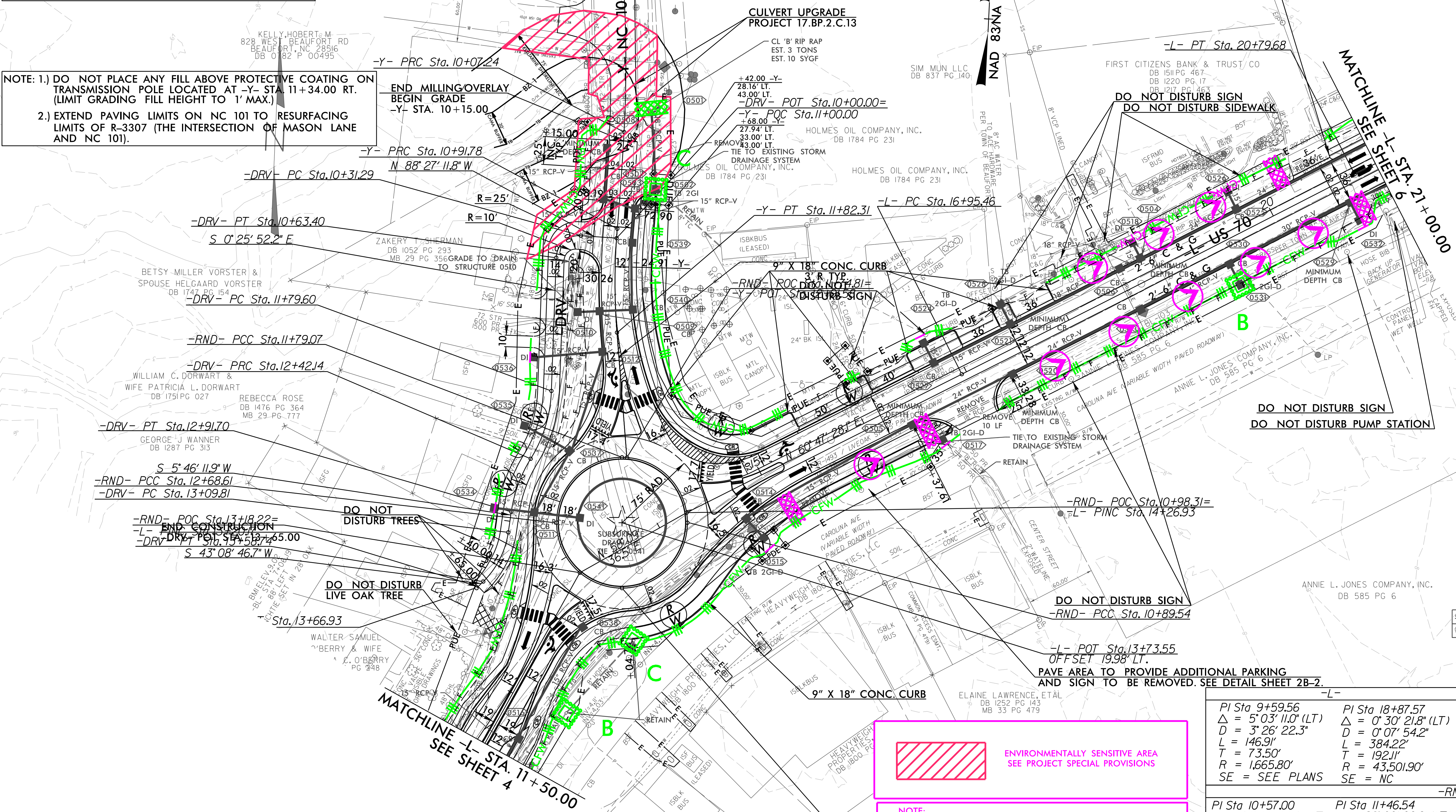
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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

8/17/99



NOTE: 1.) DO NOT PLACE ANY FILL ABOVE PROTECTIVE COATING ON TRANSMISSION POLE LOCATED AT -Y- STA. 11+34.00 RT. (LIMIT GRADING FILL HEIGHT TO 1' MAX.)
2.) EXTEND PAVING LIMITS ON NC 101 TO RESURFACING LIMITS OF R-3307 (THE INTERSECTION OF MASON LANE AND NC 101).

★ EXISTING SIGNAL TO BE REMOVED



CLEAN OUT EXISTING PIPES DURING CONSTRUCTION
FROM -Y- STA. 9+90 LT TO -Y- STA. 10+55 LT - EST. 65 LF

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

-RND- PC Sta. 10+00.00=
-RND- PT Sta. 13+58.14
COUNTER CLOCKWISE

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

UTILIZE FABRIC INSERT INLET PROTECTION
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C
AS DIRECTED BY THE ENGINEER

-L-		-Y-	
PI Sta 9+59.56 Δ = 5'03' 11.0" (LT) D = 3'26' 22.3" L = 146.91' T = 73.50' R = 1665.80' SE = SEE PLANS	PI Sta 18+87.57 Δ = 0'30' 21.8" (LT) D = 0'07' 54.2" L = 384.22' T = 192.11' R = 43501.90' SE = NC	PI Sta 10+45.89 Δ = 1'59' 15.3" (RT) D = 2'09' 56.5" L = 91.78' T = 45.89' R = 2645.60' SE = SEE PLANS	PI Sta 11+37.14 Δ = 9'25' 51.2" (LT) D = 10'25' 02.7" L = 90.53' T = 45.37' R = 550.00' SE = SEE PLANS
-RND-			
PI Sta 10+57.00 Δ = 90°00' 00.0" (LT) D = 100'31' 08.1" L = 89.54' T = 57.00' R = 57.00' SE = SEE PLANS	PI Sta 11+46.54 Δ = 90°00' 00.0" (LT) D = 100'31' 08.1" L = 89.54' T = 57.00' R = 57.00' SE = SEE PLANS	PI Sta 12+36.07 Δ = 90°00' 00.0" (LT) D = 100'31' 08.1" L = 89.54' T = 57.00' R = 57.00' SE = SEE PLANS	PI Sta 13+25.61 Δ = 90°00' 00.0" (LT) D = 100'31' 08.1" L = 89.54' T = 57.00' R = 57.00' SE = SEE PLANS
-DRV-			
PI Sta 10+51.99 Δ = 91°58' 40.5" (LT) D = 286'28' 44.0" L = 32.11' T = 20.70' R = 20.00' SE = SEE PLANS	PI Sta 12+11.60 Δ = 29°51' 51.8" (RT) D = 47'44' 47.3" L = 62.55' T = 32.00' R = 120.00' SE = SEE PLANS	PI Sta 12+67.28 Δ = 23°39' 47.7" (LT) D = 47'44' 47.3" L = 49.56' T = 25.14' R = 120.00' SE = SEE PLANS	PI Sta 13+35.18 Δ = 37°22' 34.8" (RT) D = 76'23' 39.7" L = 48.93' T = 25.37' R = 75.00' SE = SEE PLANS

