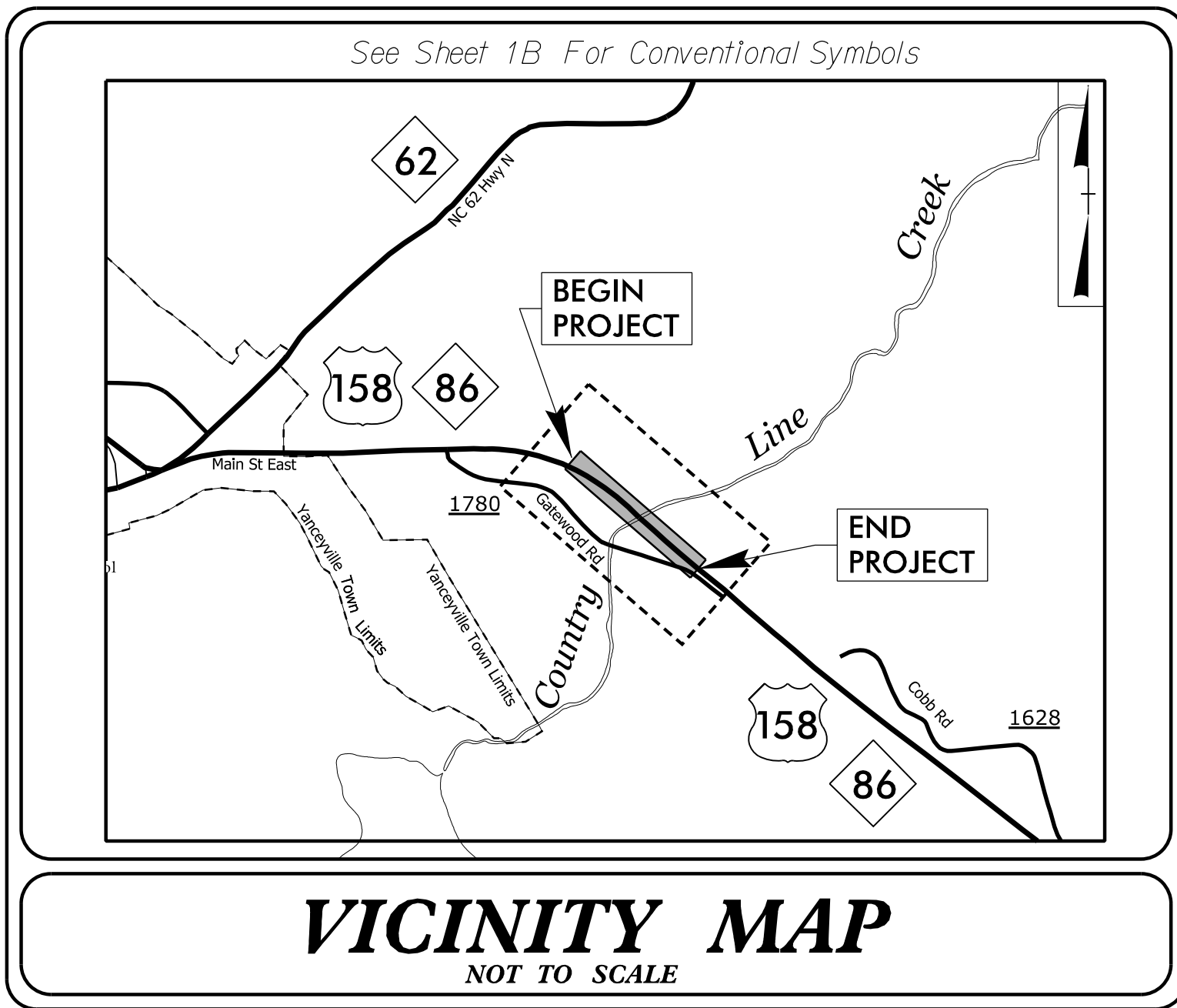


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0069	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67069.1.1	N/A	PE	

TIP PROJECT: BR-0069

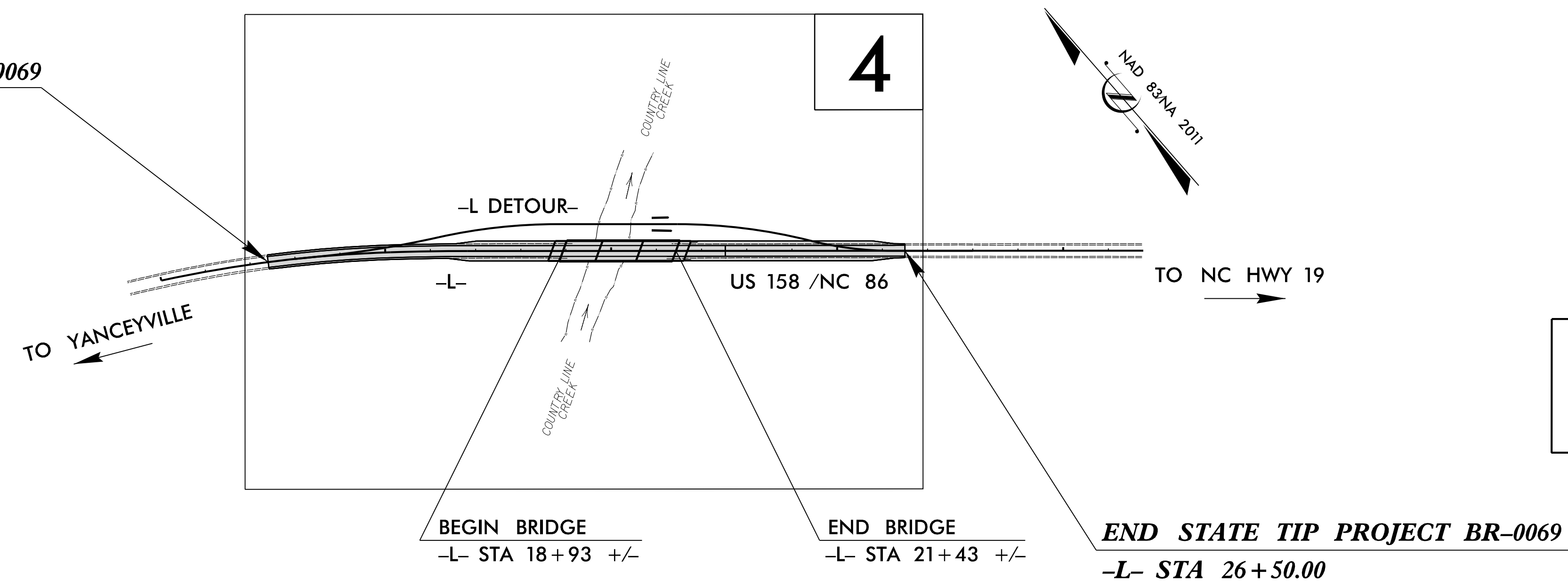


VICINITY MAP
NOT TO SCALE

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

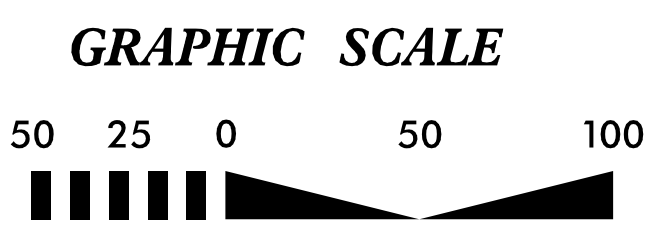
**LOCATION: BRIDGE NO. 160001 OVER COUNTRY LINE CREEK ON
US 158 /NC 86**
TYPE OF WORK: PAVING, GRADING, DRAINAGE, AND STRUCTURES

BEGIN STATE TIP PROJECT BR-0069
-L- STA 12+40.00



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

THIS IS A PARTIAL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS SHOWN ON THE PLANS.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III



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



Prepared in the Office of:
MOFFATT & NICHOL
4700 FALLS OF NEUSE ROAD, SUITE 300
RALEIGH, NORTH CAROLINA 27609
(919)781-4626 PHONE (919)781-4869 FAX

Designed by:
ELWOOD BURGESS, P.E. 4298
NAME 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.

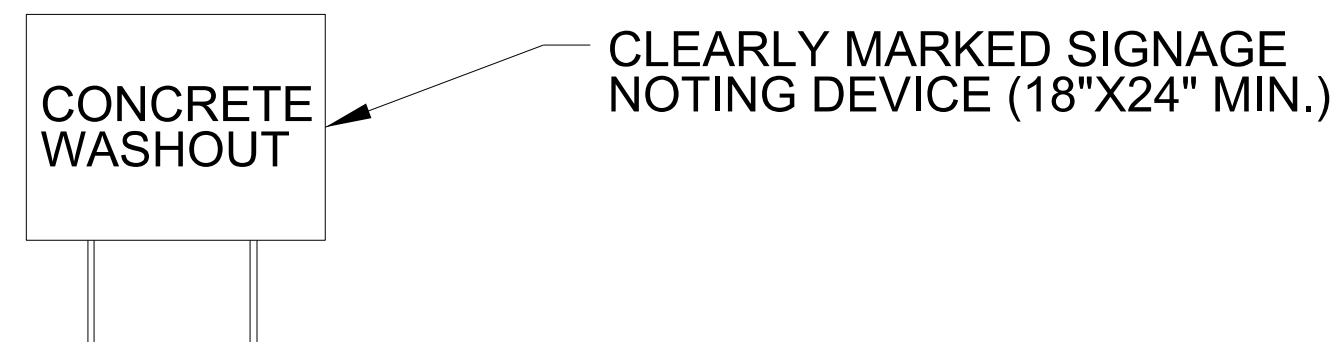
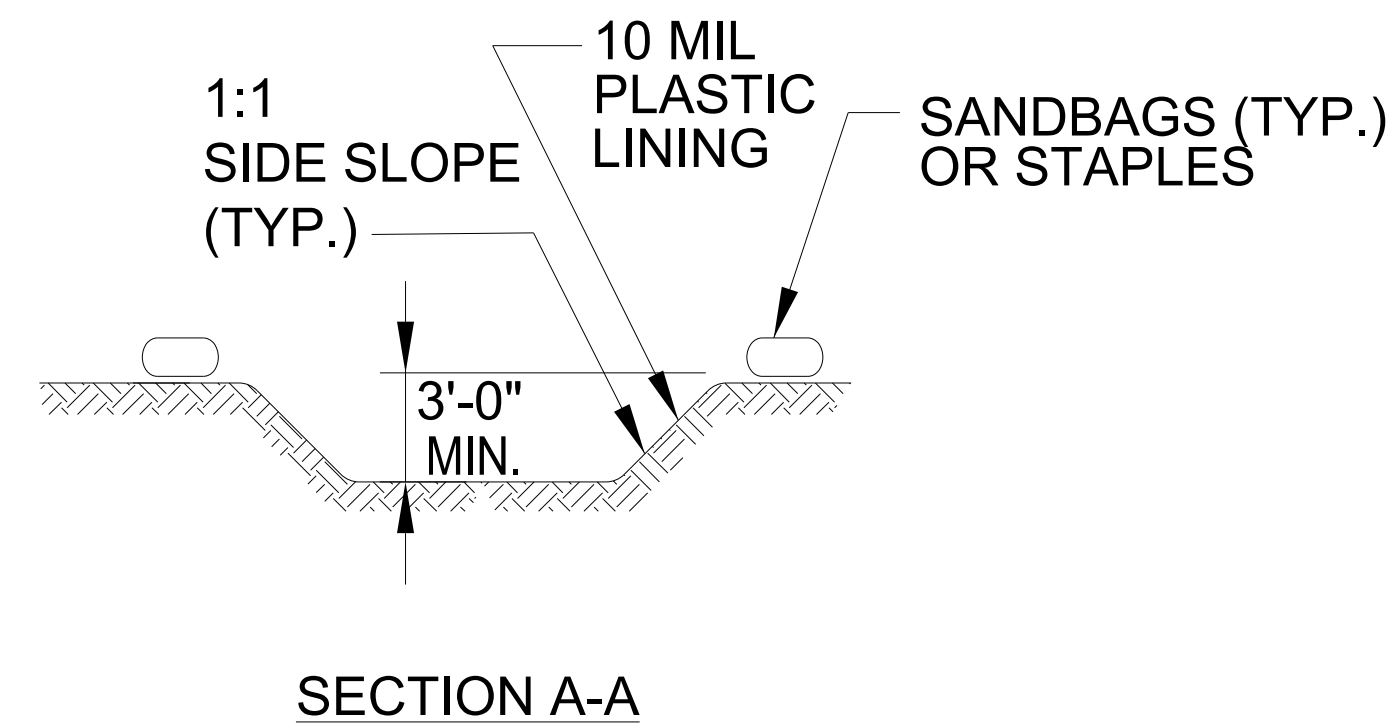
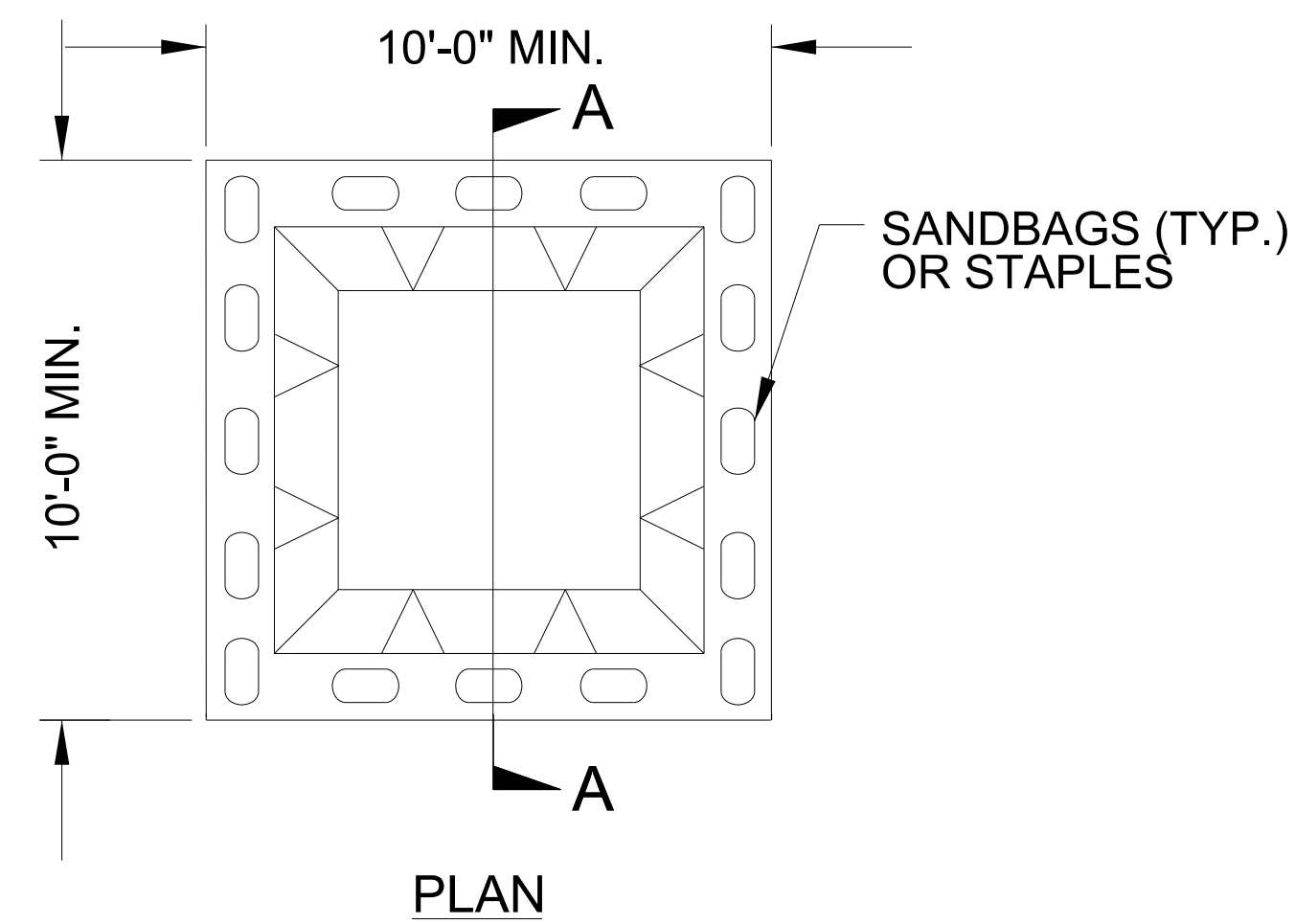
I:\26\2024\1-18\BR-0069\Roadside\PSH\BR-0069_REL\EC1-TSH.dgn

DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
BR-0069	EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

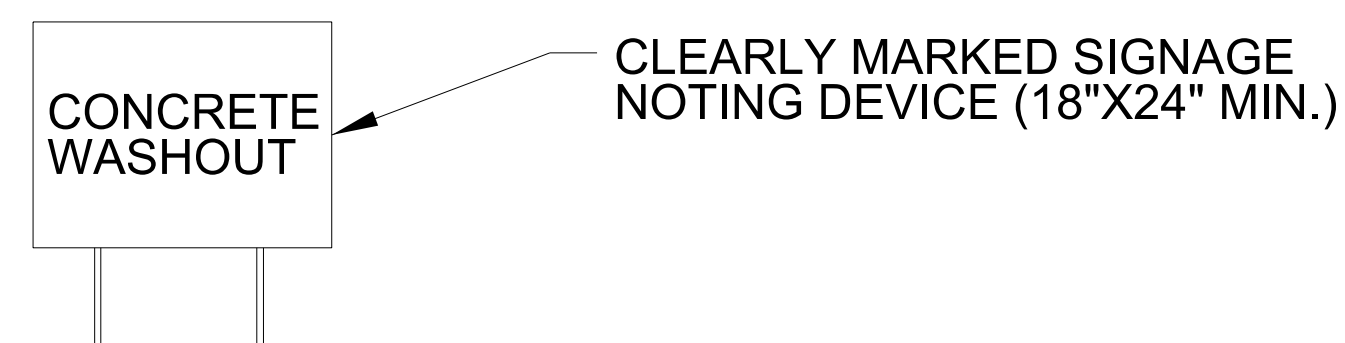
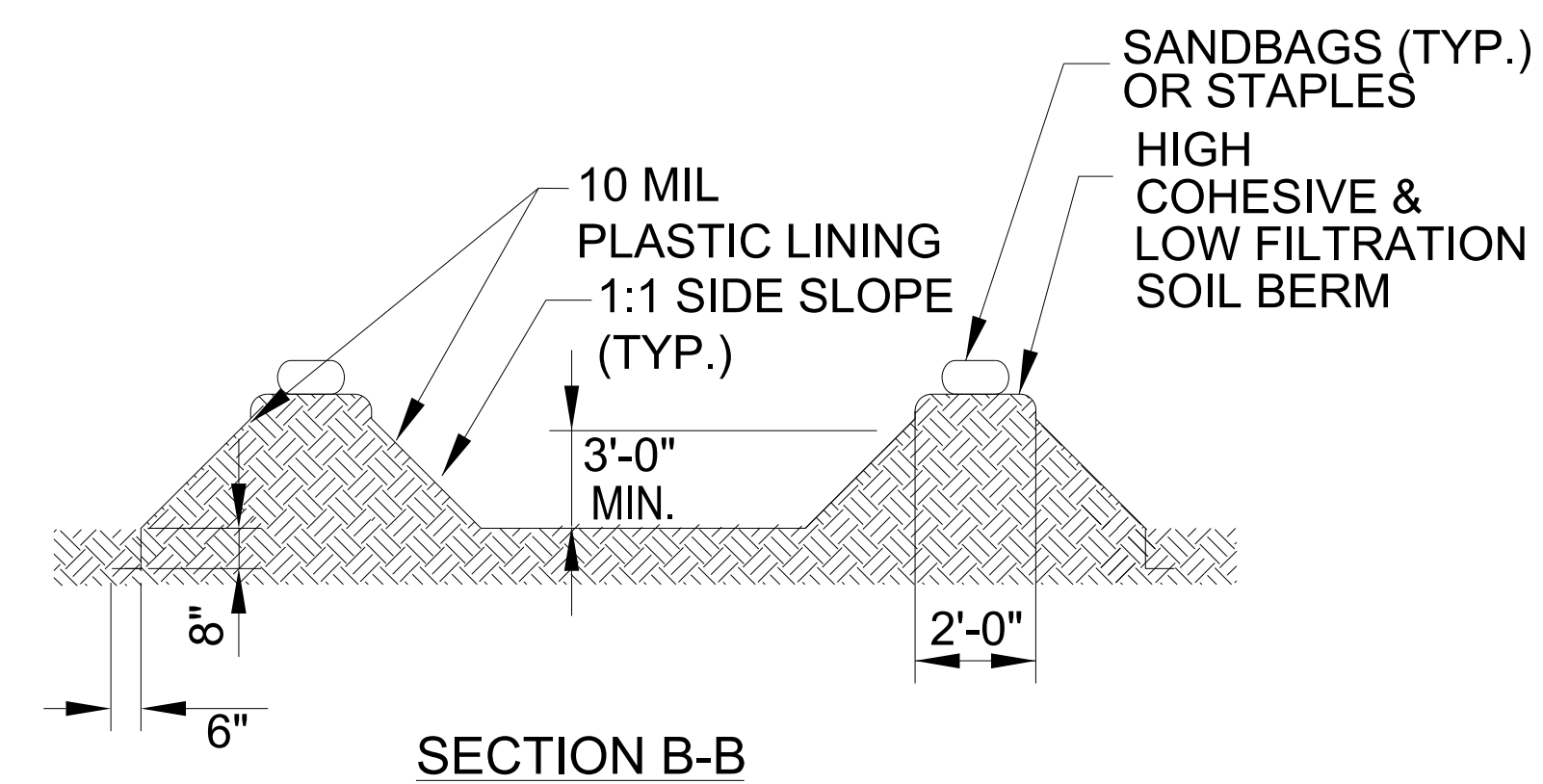
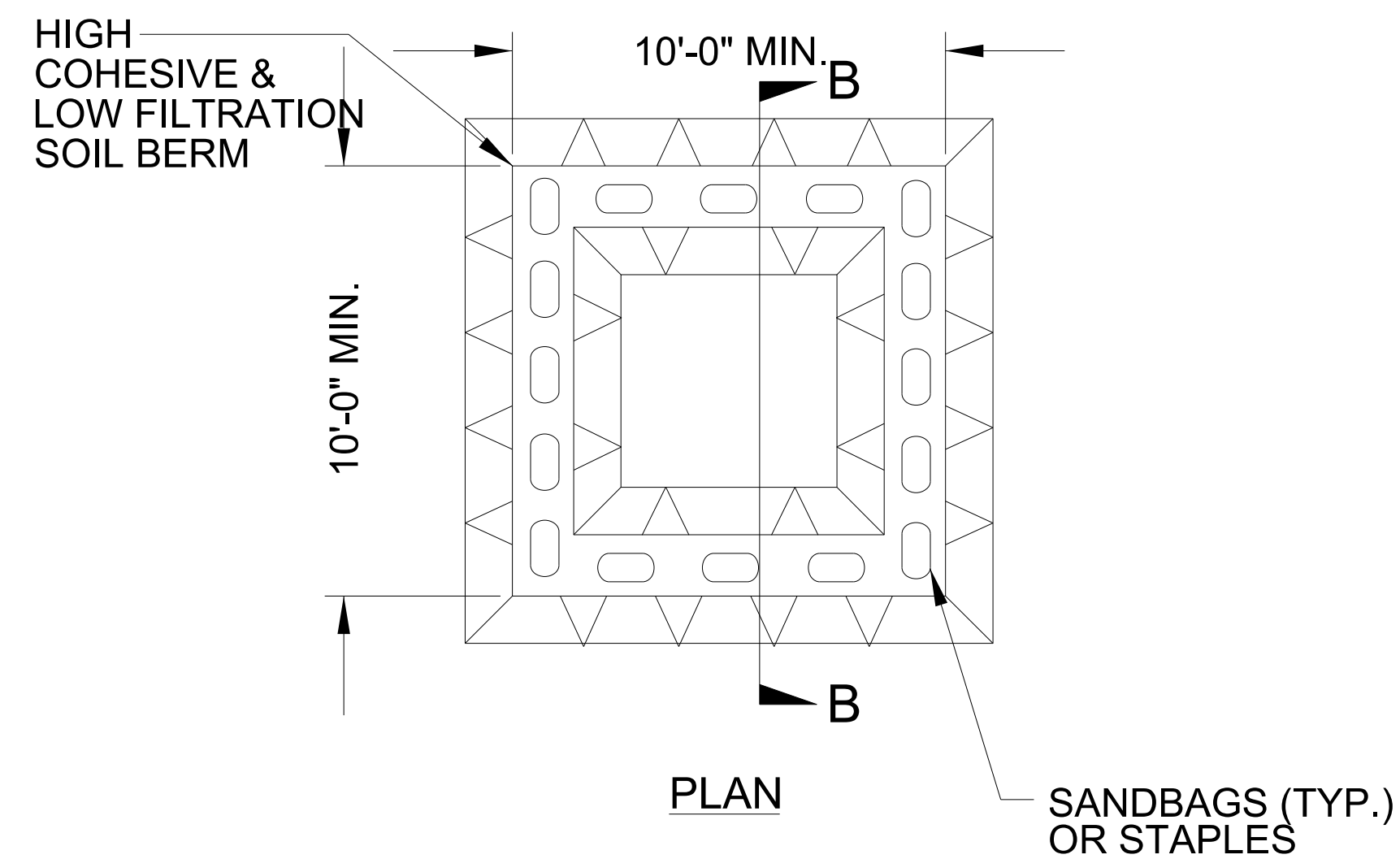
Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior 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				

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- 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.

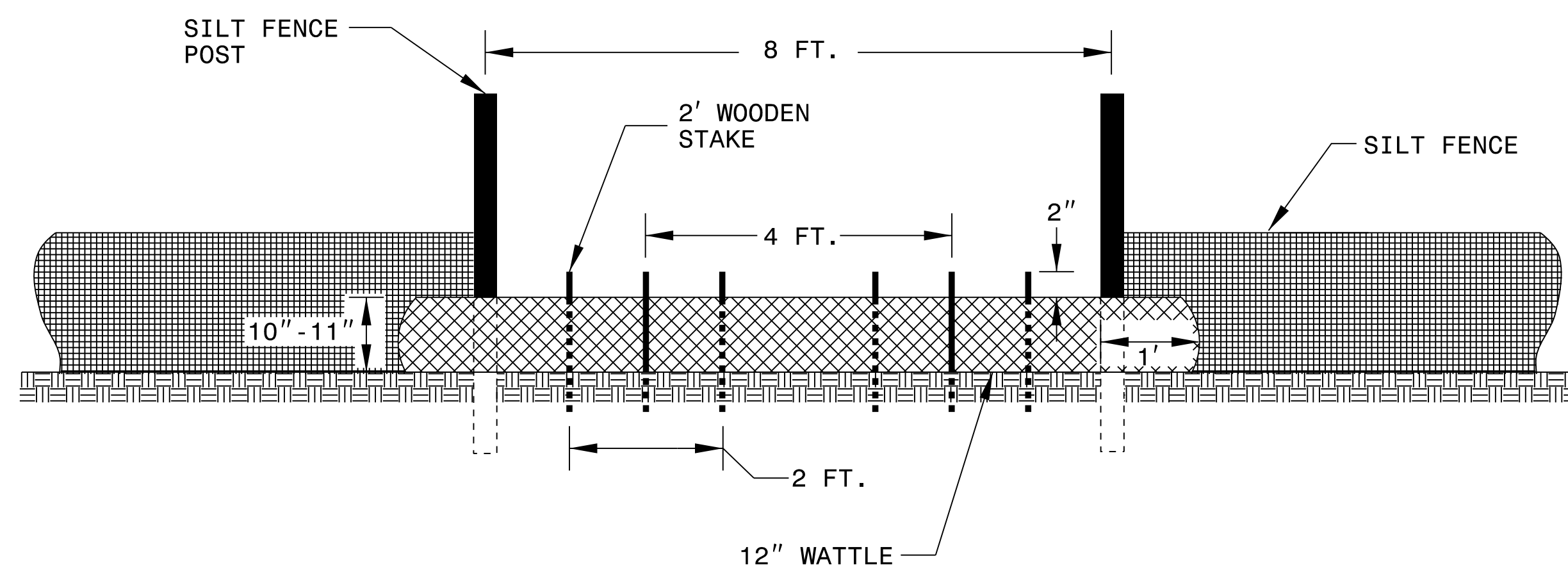
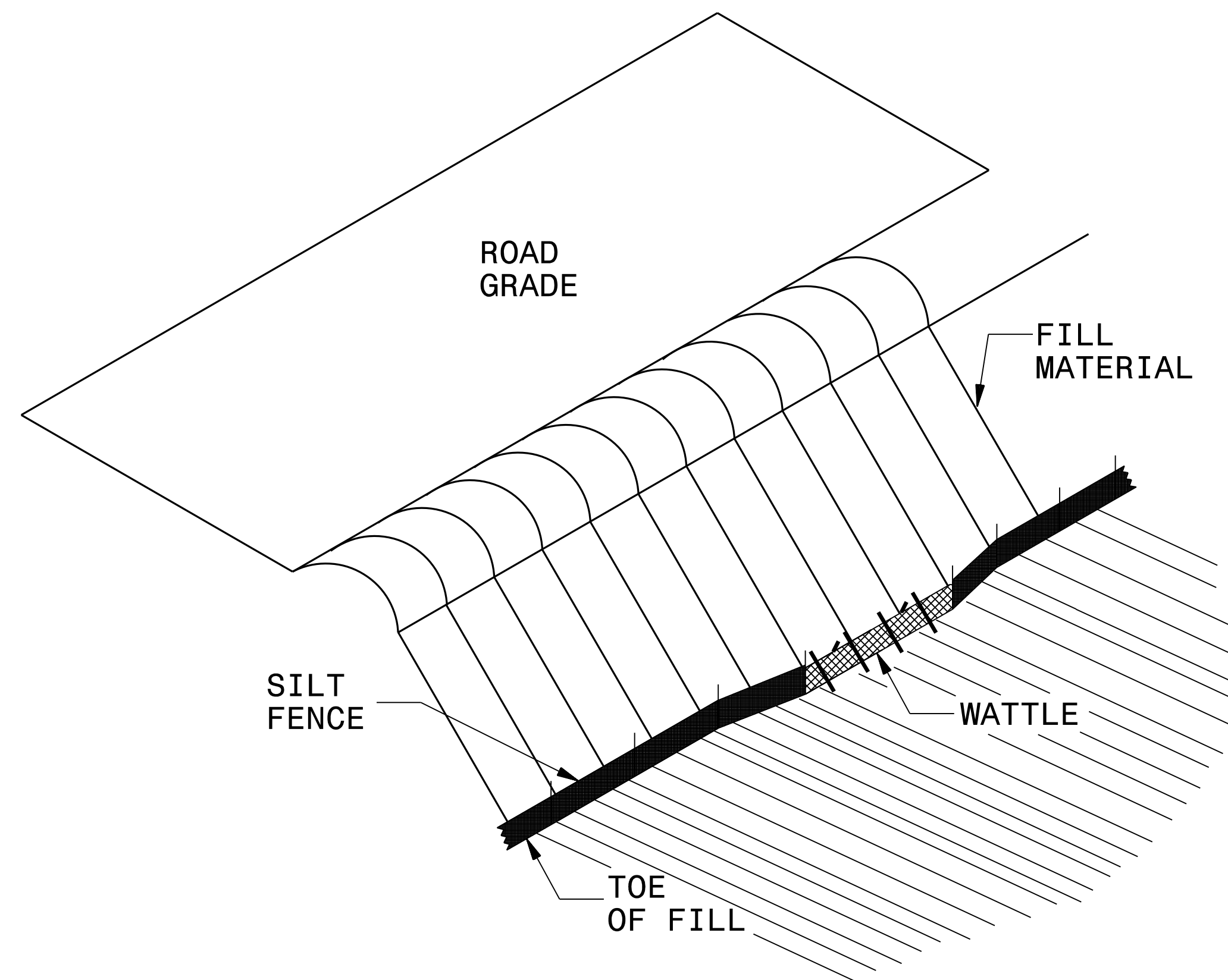


ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- 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.

SILT FENCE COIR FIBER WATTLE BREAK DETAIL

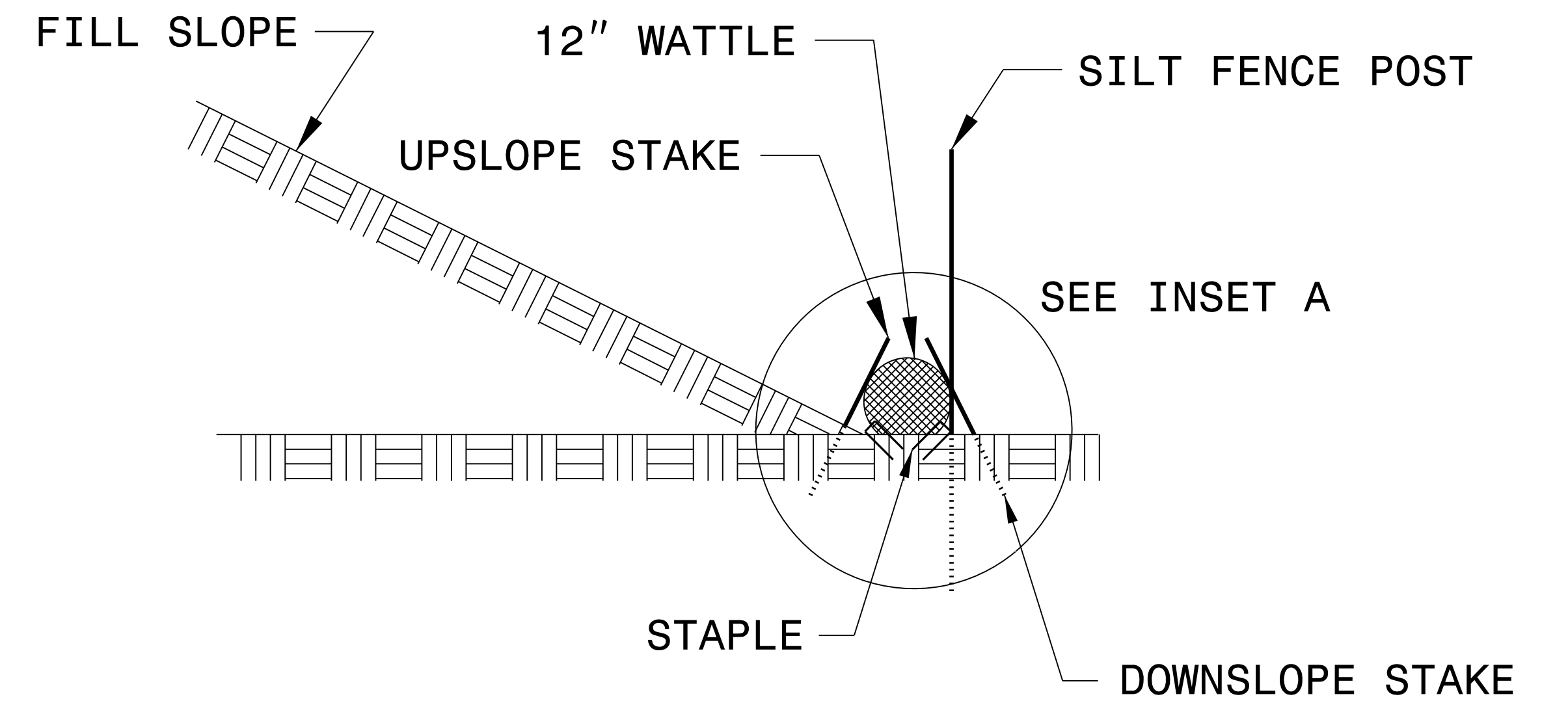
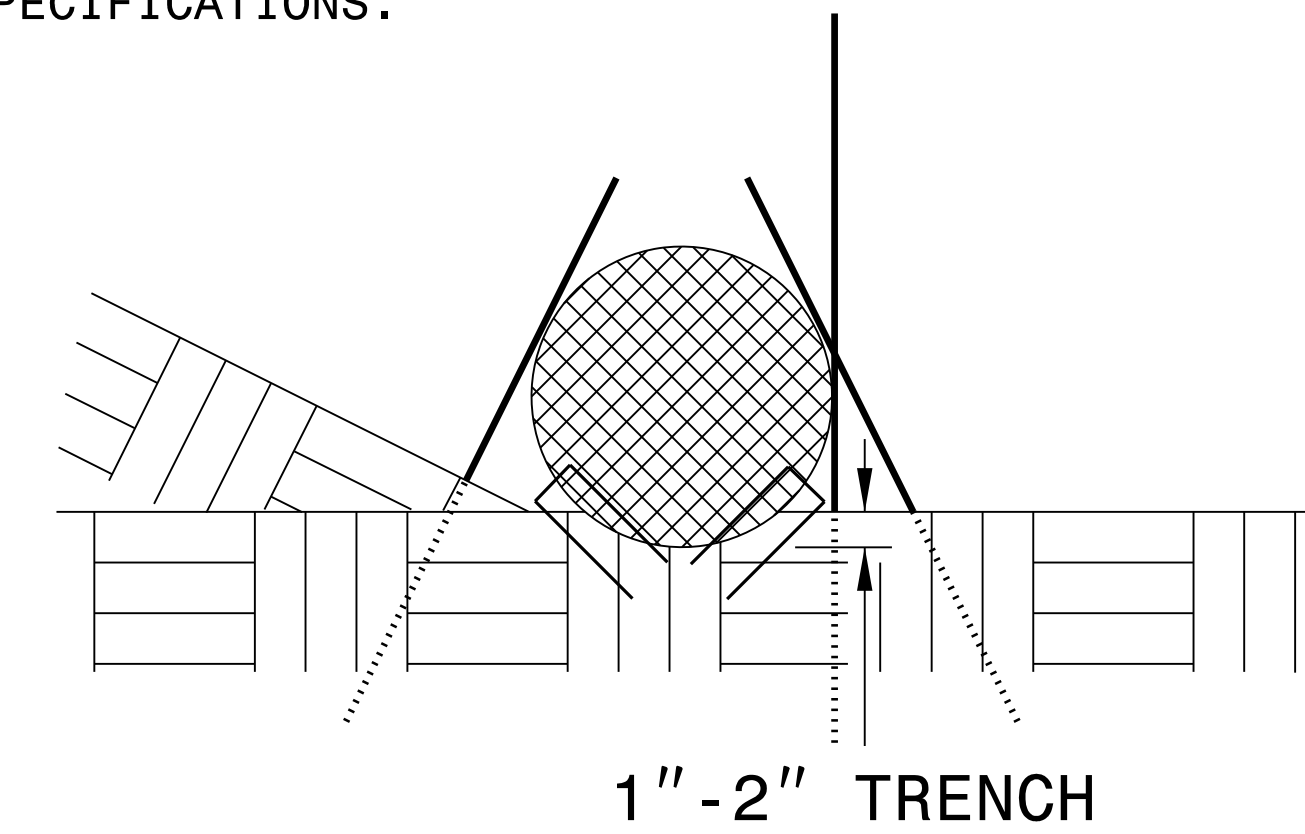
PROJECT REFERENCE NO. <i>BR-0069</i>	SHEET NO. <i>EC-2B</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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 11 GAUGE STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 6" 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



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 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

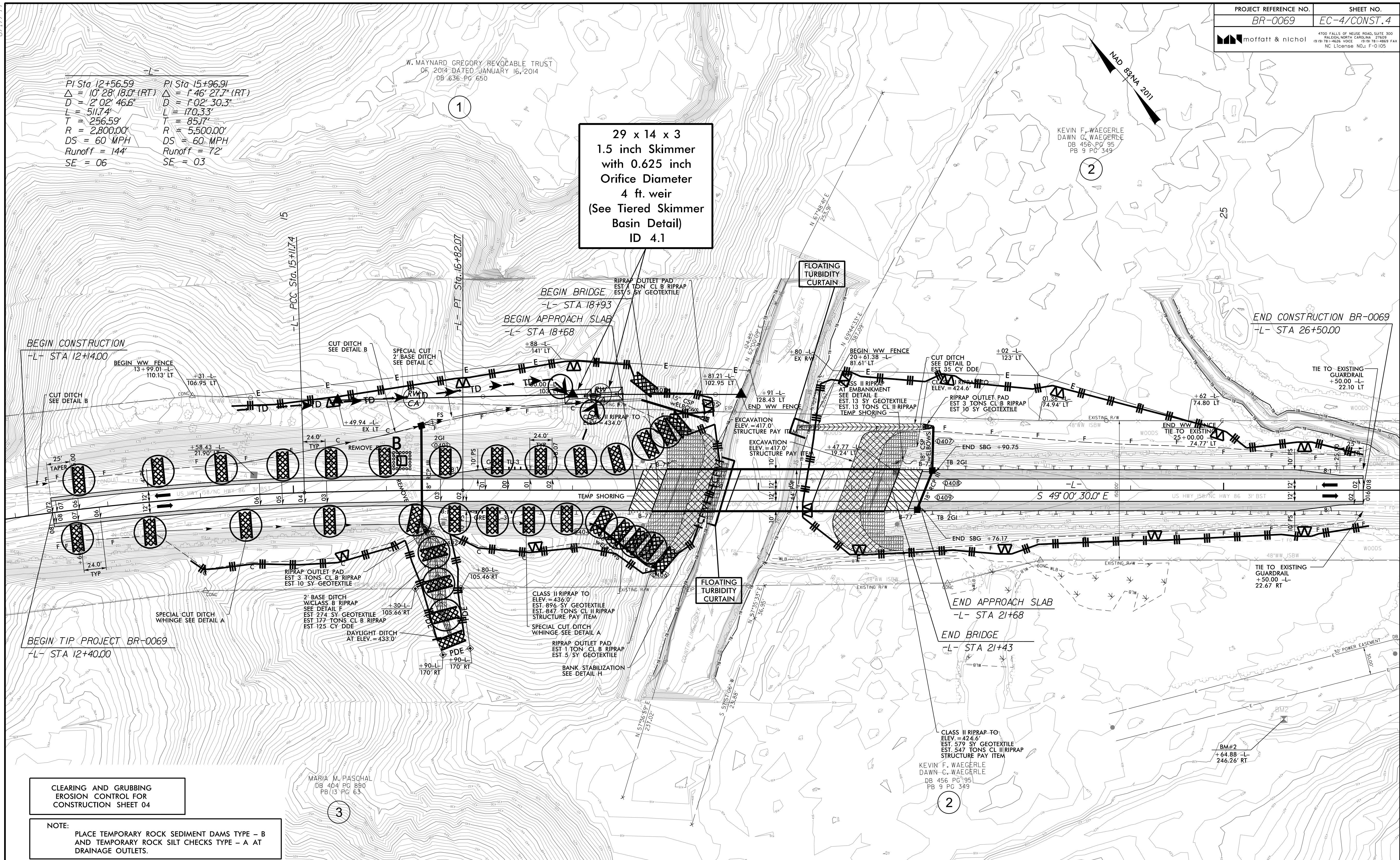
8/17/99

I:\22\2024\05\FAT\1001-109\BR-0069\Roadside\PSH\BR-0069_REL_EC03A_PSH_03A.dgn

PI Sta 12+56.59 Δ = 10° 28' 18.0" (RT) D = 2' 02' 46.6" L = 511.74' T = 256.59' R = 2,800.00' DS = 60 MPH Runoff = 144' SE = 06	PI Sta 15+96.91 Δ = 1° 46' 27.7" (RT) D = 1' 02' 30.3" L = 170.33' T = 85.17' R = 5,500.00' DS = 60 MPH Runoff = 72' SE = 03
---	--

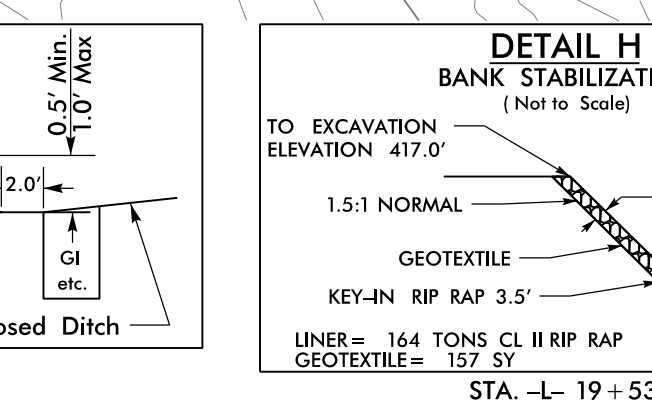
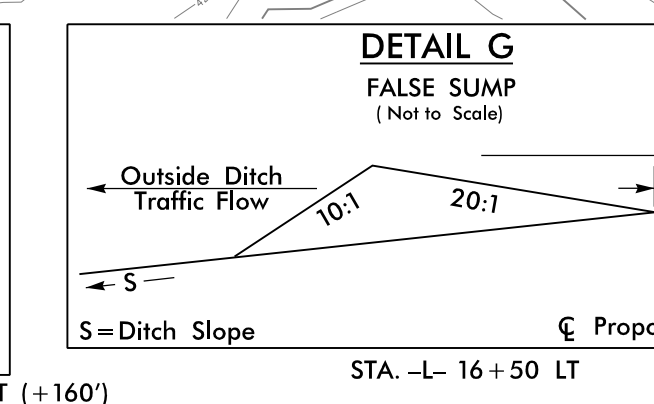
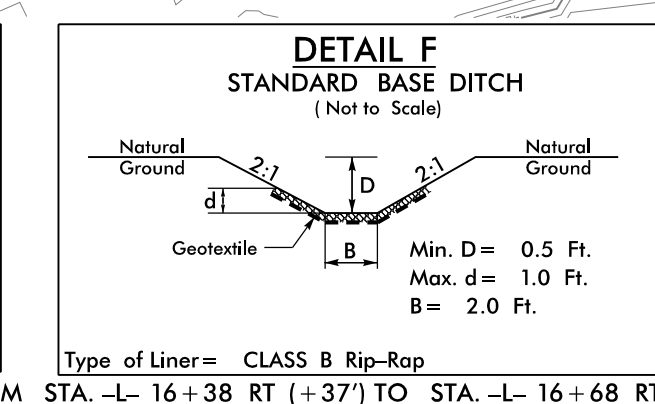
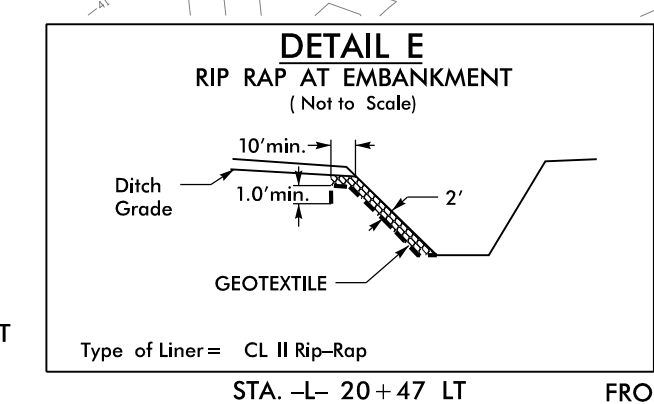
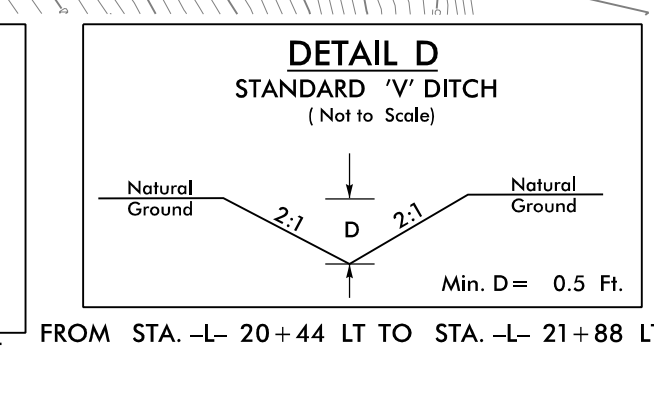
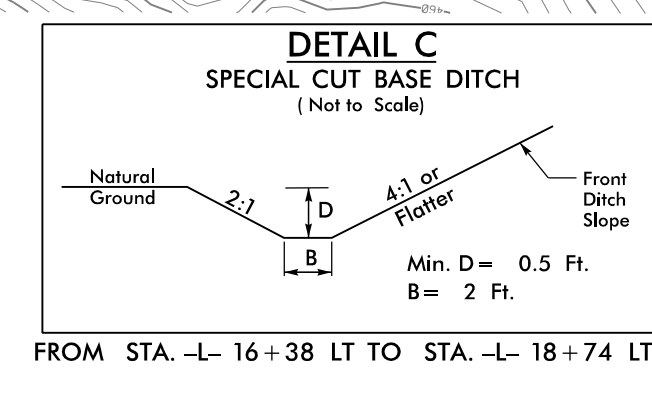
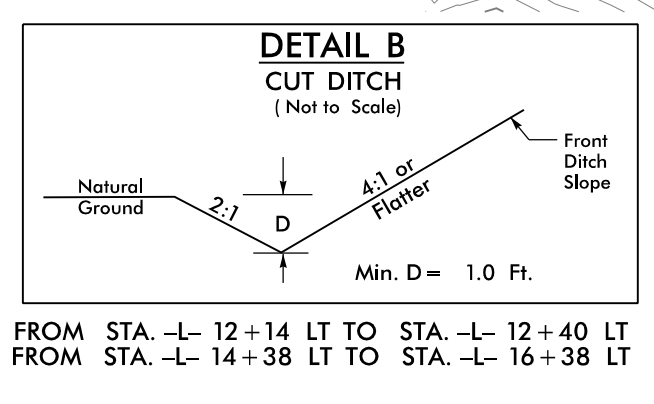
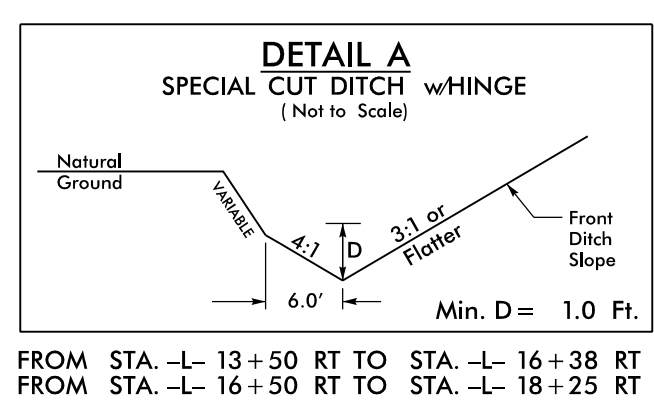
W. MAYNARD GREGORY REVOCABLE TRUST
OF 2014 DATED JANUARY 16, 2014
DB 636 PG 650

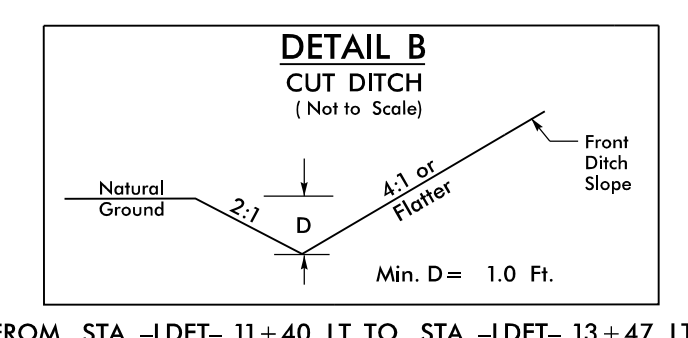
**29 x 14 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.1**



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

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

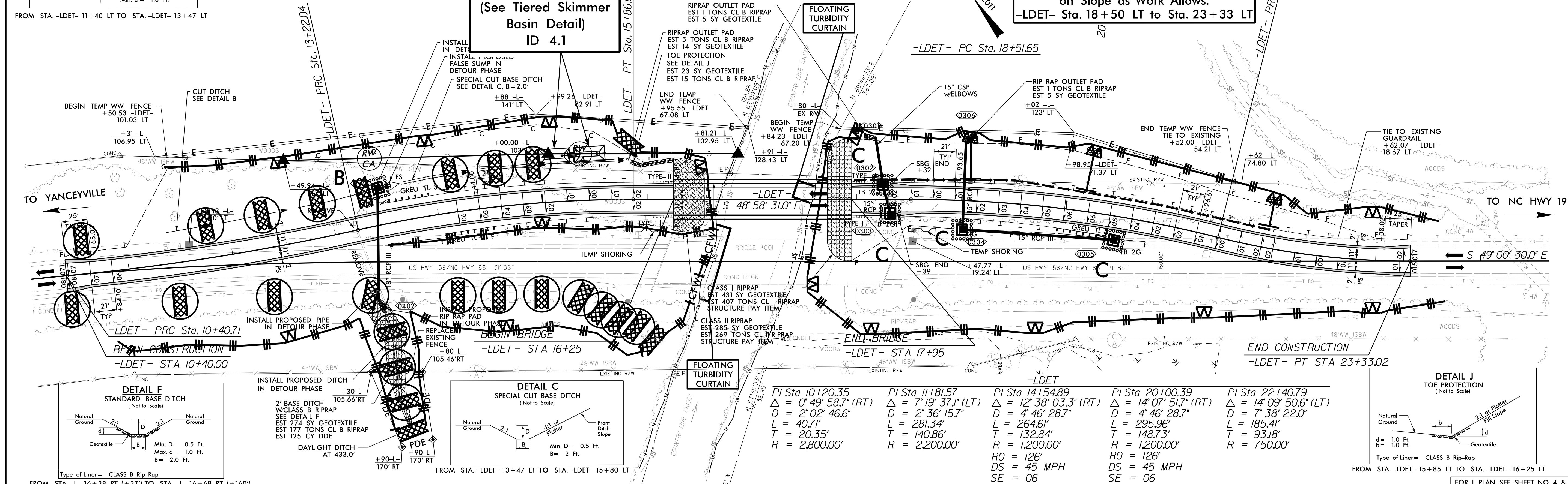




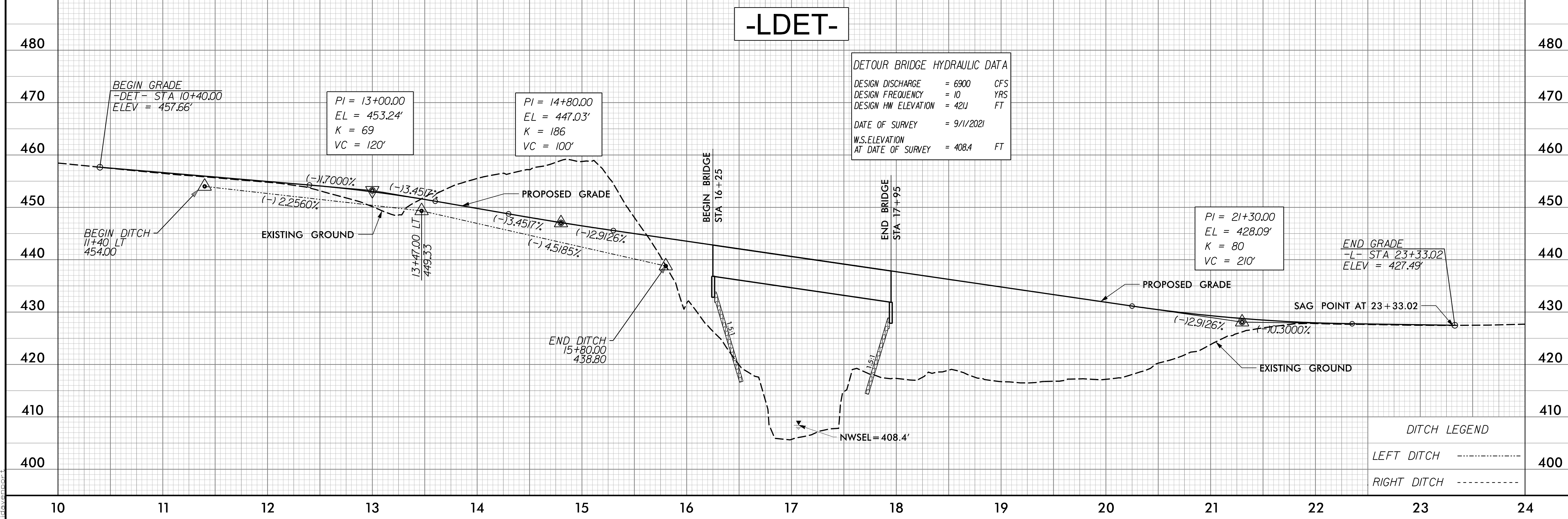
29 x 14 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.1

-LDET-

UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF TEMPORARY ROCK INLET SEDIMENT TRAPS TYPE-C. WHERE PONDING MAY OCCUR ON ROADWAY OPEN TO TRAFFIC.
 Place Matting for Erosion Control on Slope as Work Allows.
 -LDET- Sta. 18+50 LT to Sta. 23+33 LT



Station	Δ	D	L	T	R	RO	DS	SE
PI Sta 10+20.35	0° 49' 58.7" (RT)	2' 02' 46.6"	40.7'	20.35'	2,800.00'	126'	45 MPH	06
PI Sta 11+81.57	7° 19' 37.1" (LT)	2' 36' 15.7"	281.34'	140.86'	2,200.00'	126'	45 MPH	06
PI Sta 14+54.89	12° 38' 03.3" (RT)	4' 46' 28.7"	264.6'	132.84'	1,200.00'	126'	45 MPH	06
PI Sta 20+00.39	14° 07' 51.7" (RT)	4' 46' 28.7"	295.96'	148.73'	1,200.00'	126'	45 MPH	06
PI Sta 22+40.79	14° 09' 50.6" (LT)	7' 38' 22.0"	185.4'	93.18'	750.00'	126'	45 MPH	06



DETOUR BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 6900	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 421	FT
DATE OF SURVEY	= 9/11/2021	
W.S. ELEVATION AT DATE OF SURVEY	= 408.4	FT

DITCH LEGEND
 LEFT DITCH -----
 RIGHT DITCH -----

8.17.19
 10/22/2024
 U:\2024\1011-109\BR-0069\Roadside\PSHY\BR-0069_REU_EC05_PSH2B-1.dgn

UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF TEMPORARY ROCK INLET SEDIMENT TRAPS TYPE-C WHERE PONDING MAY OCCUR ON ROADWAY OPEN TO TRAFFIC.

Place Matting for Erosion Control on Slope as Work Allows.
 -L- Sta. 21+50 RT to Sta. 26+50 RT
 -L- Sta. 22+00 LT to Sta. 26+50 LT

Place Coir Fiber Mat on Excavated Area as Work Allows.
 -L- Sta. 18+80 to -L- Sta. 19+56
 -L- Sta. 20+79 to -L- Sta. 21+50

-L-
 PI Sta 12+56.59 PI Sta 15+96.91
 $\Delta = 10' 28' 18.0''$ (RT) $\Delta = 1' 46' 27.7''$ (RT)
 $D = 2' 02' 46.6''$ $D = 1' 02' 30.3''$
 $L = 511.74'$ $L = 170.33'$
 $T = 256.59'$ $T = 85.17'$
 $R = 2,800.00'$ $R = 5,500.00'$
 $DS = 60$ MPH $DS = 60$ MPH
 $Runoff = 144'$ $Runoff = 72'$
 $SE = 06$ $SE = 03$

W. MAYNARD GREGORY REVOCABLE TRUST
 OF 2014 DATED JANUARY 16, 2014
 DB 636 PG 650

29 x 14 x 3
 1.5 inch Skimmer
 with 0.625 inch
 Orifice Diameter
 4 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 4.1

KEVIN F. WAEGERLE
 DAWN C. WAEGERLE
 DB 456 PG 95
 PB 9 PG 349

