

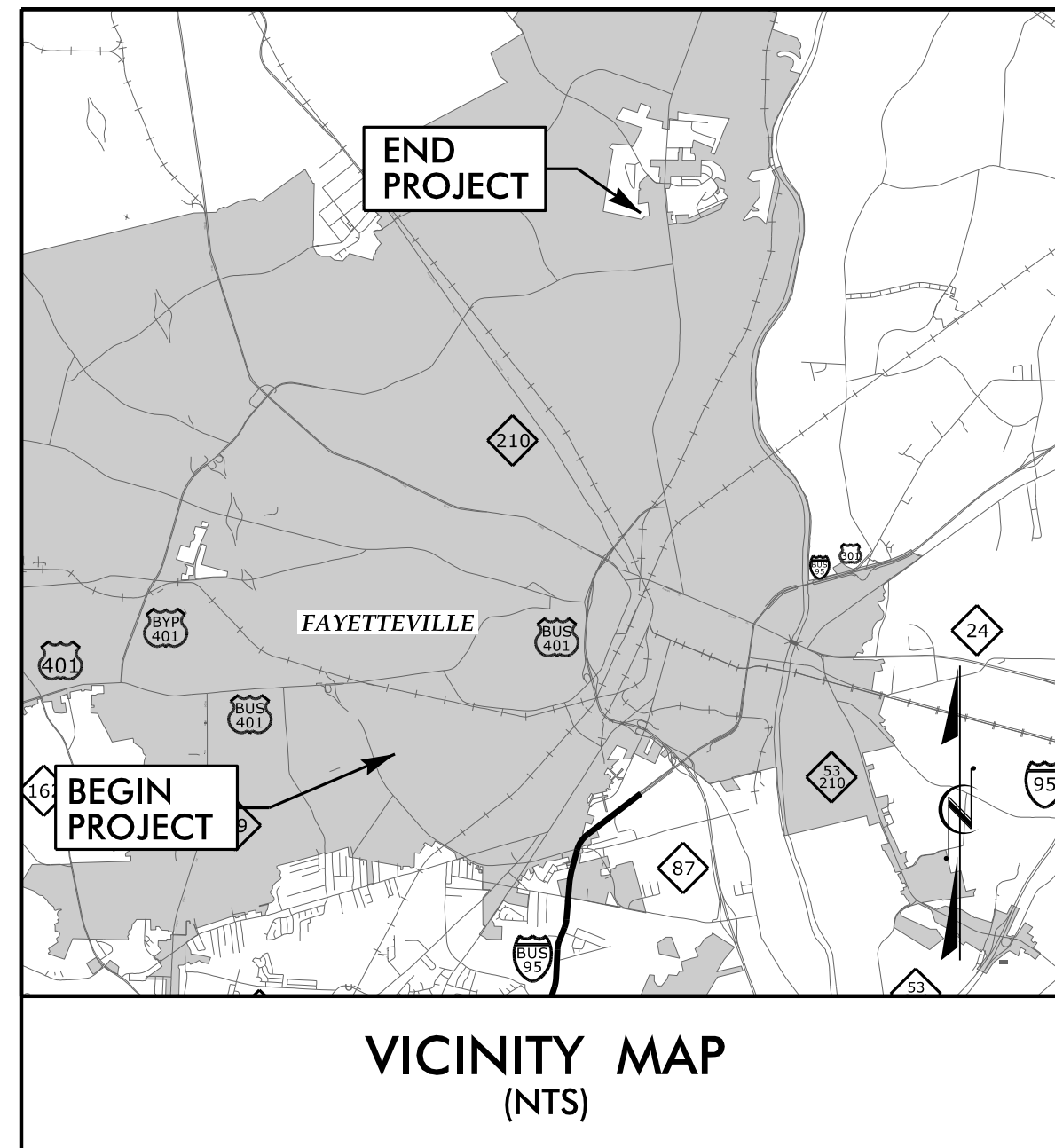
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**TIP PROJECT: W-5519**

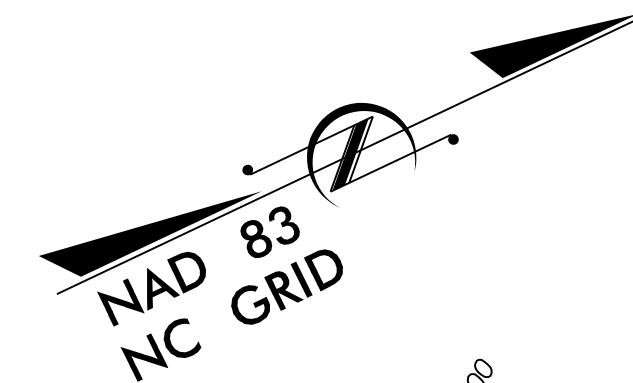
See Sheet 1-A For Index of Sheets  
See Sheet 1-B For Conventional Symbols



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

**LOCATION:** I-95 BUSINESS /US 301 FROM NC 87 SOUTH  
TO NC 59

**TYPE OF WORK:** PAVING, GRADING, DRAINAGE,  
PAVEMENT MARKINGS AND SIGNING

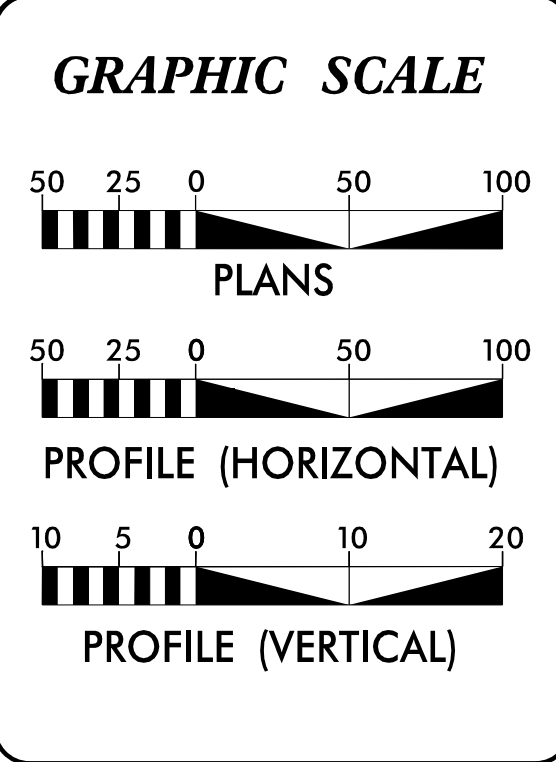


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5519	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.05	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	Silt Basin Symbol
1633.01	Temporary Rock Silt Check Type-A	Rock Silt Check Symbol
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	Rock Silt Check Symbol
1633.02	Temporary Rock Silt Check Type-B	Rock Silt Check Symbol
	Wattle/Coir Fiber Wattle	Wattle Symbol
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	Wattle Symbol
1634.01	Temporary Rock Sediment Dam Type-A	Rock Sediment Dam Symbol
1634.02	Temporary Rock Sediment Dam Type-B	Rock Sediment Dam Symbol
1635.01	Rock Pipe Inlet Sediment Trap Type-A	Rock Pipe Inlet Sediment Trap Symbol
1635.02	Rock Pipe Inlet Sediment Trap Type-B	Rock Pipe Inlet Sediment Trap Symbol
1630.04	Stilling Basin	Stilling Basin Symbol
1630.06	Special Stilling Basin	Special Stilling Basin Symbol
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	Skimmer Basin Symbol
	Tiered Skimmer Basin	Tiered Skimmer Basin Symbol
	Infiltration Basin	Infiltration Basin Symbol

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



ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

DESIGN BY:  
LEAH YOUNG, PE  
NCDOT LEVEL III CERT: #3157

REVIEWED BY:  
JEFFREY L. RECK, PE  
NCDOT LEVEL III CERT: #3585

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY  
WITH THE REGULATIONS SET FORTH BY THE  
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011  
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND  
NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:  
**ROADSIDE ENVIRONMENTAL UNIT**  
1 South Wilmington St.  
Raleigh, NC 27611

**2012 STANDARD SPECIFICATIONS**

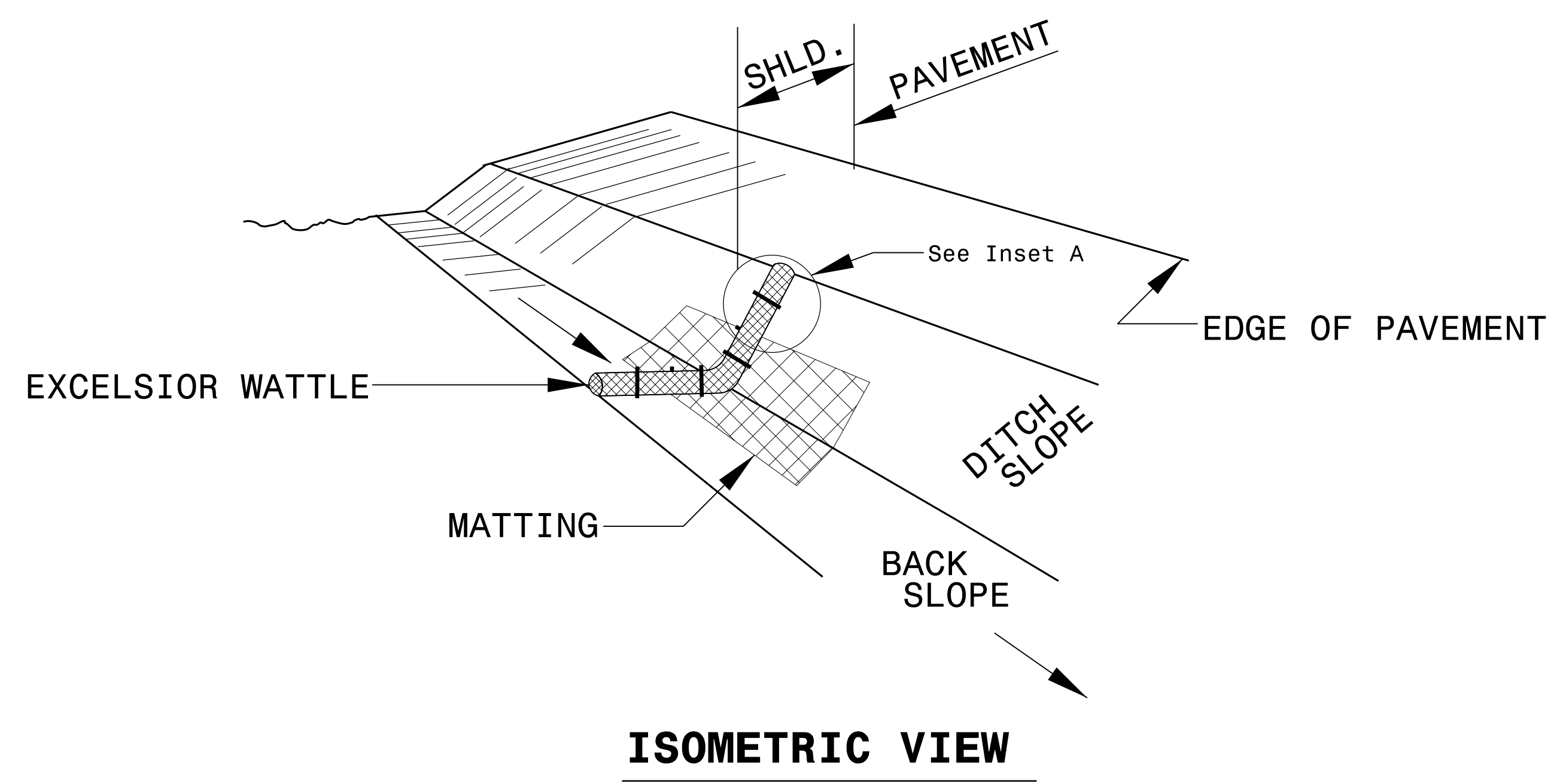
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

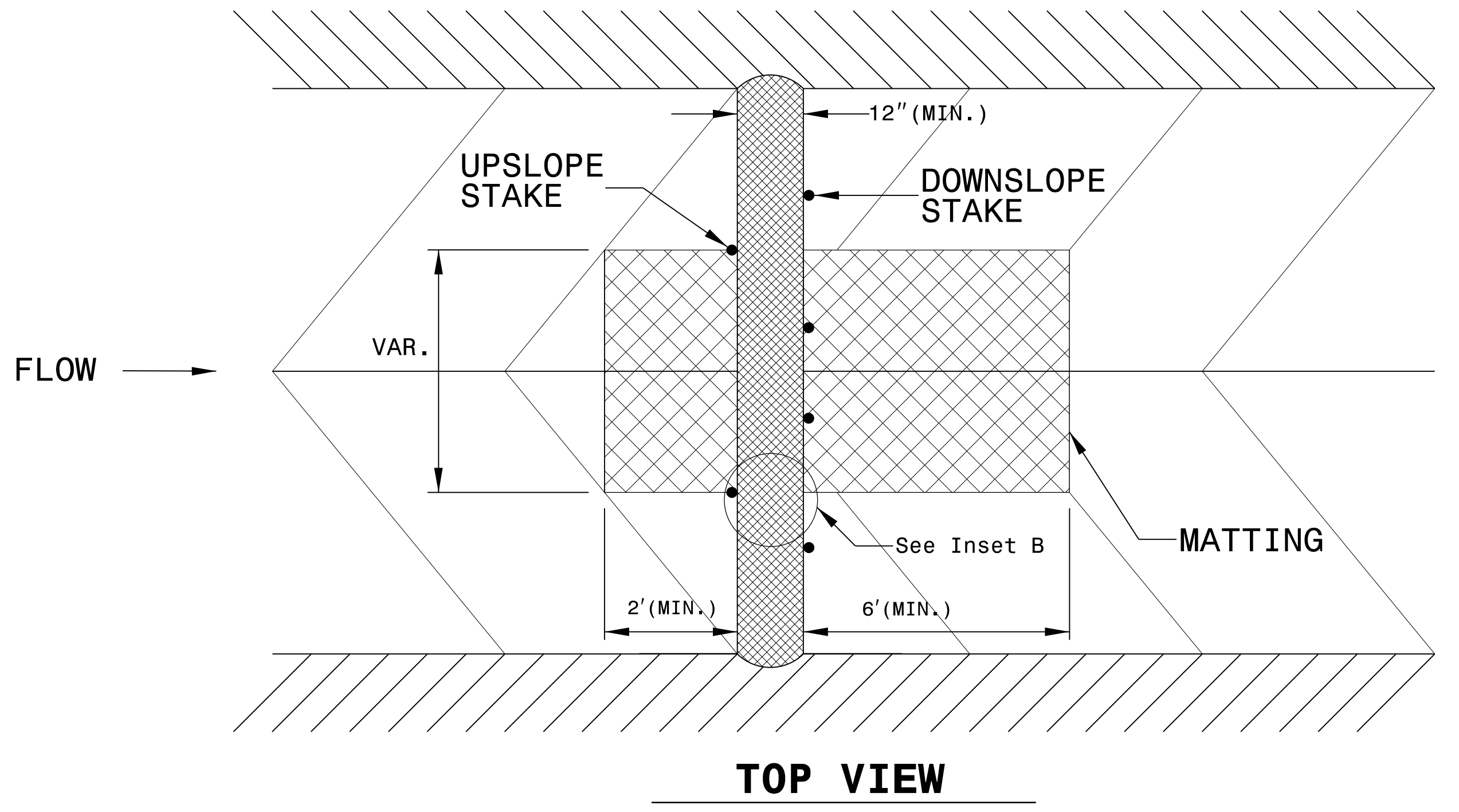
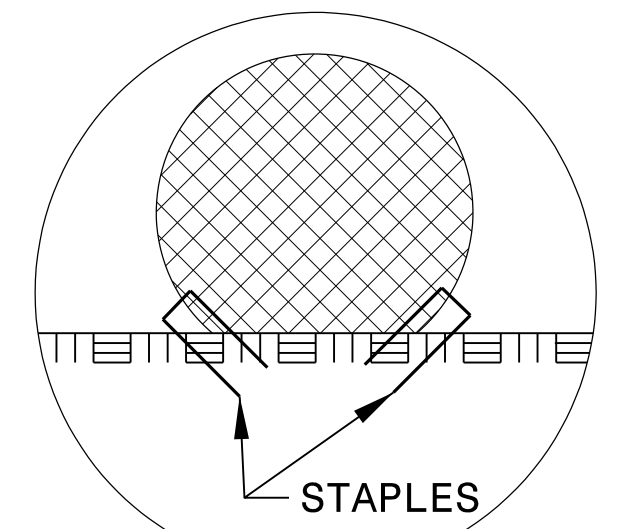
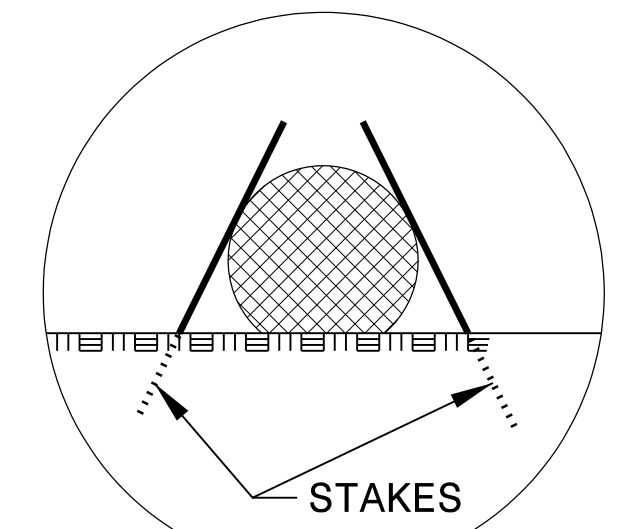
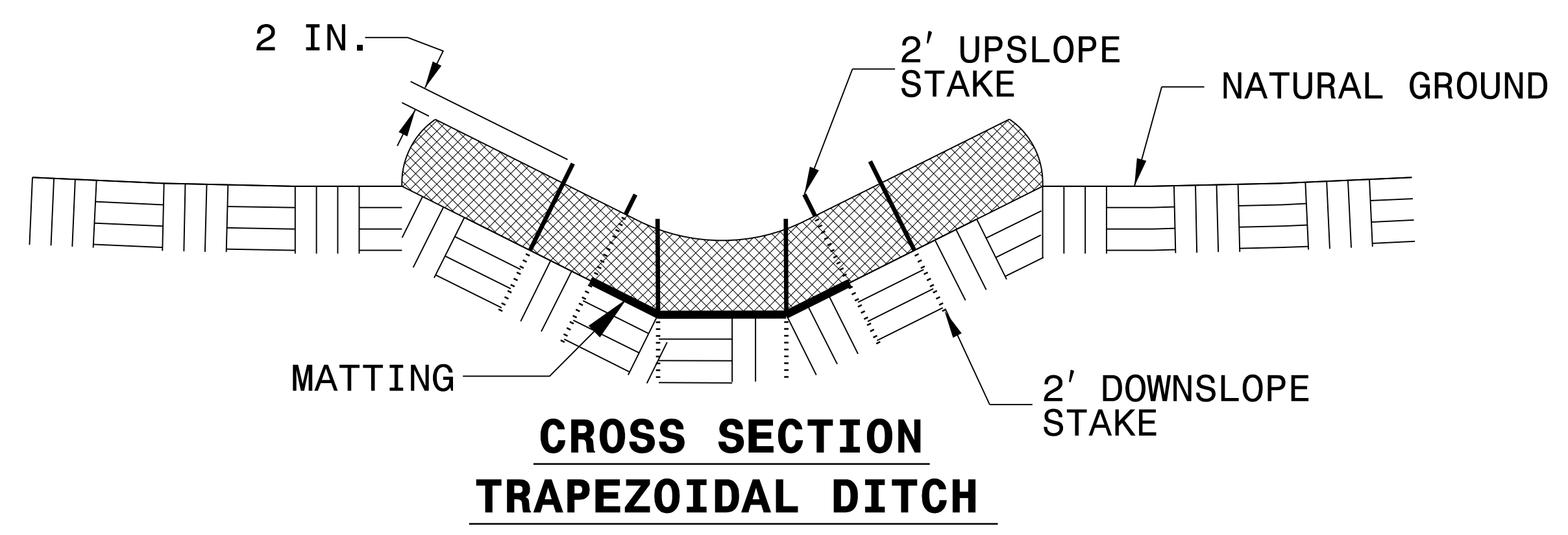
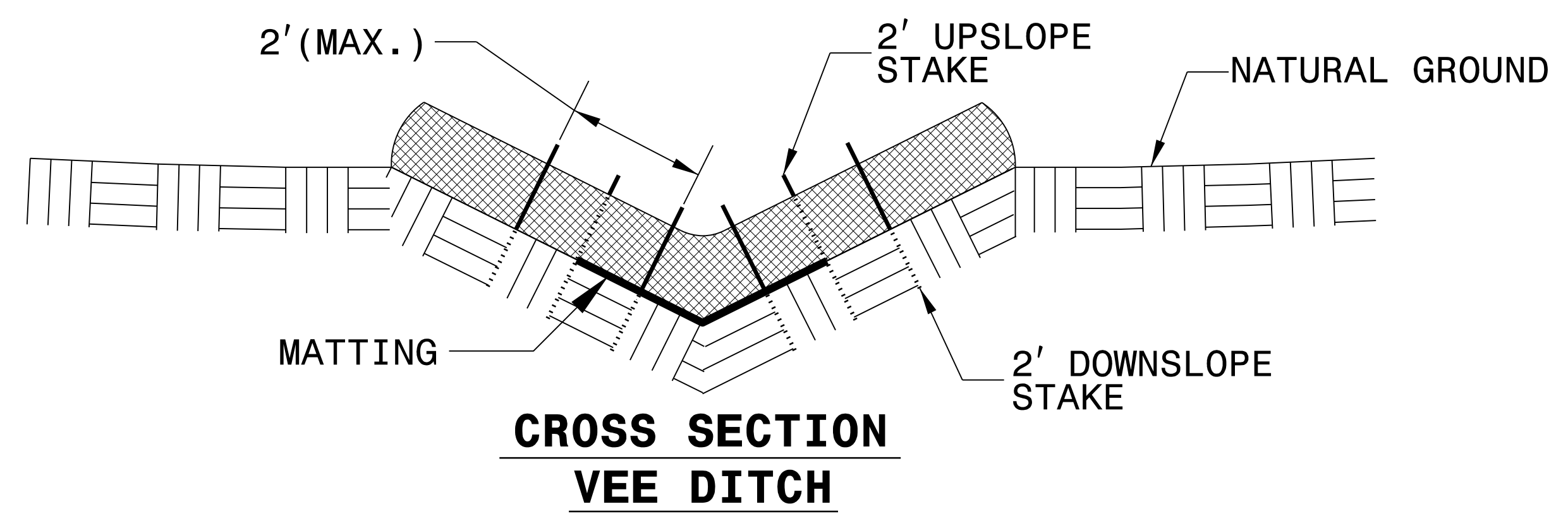


# WATTLE DETAIL

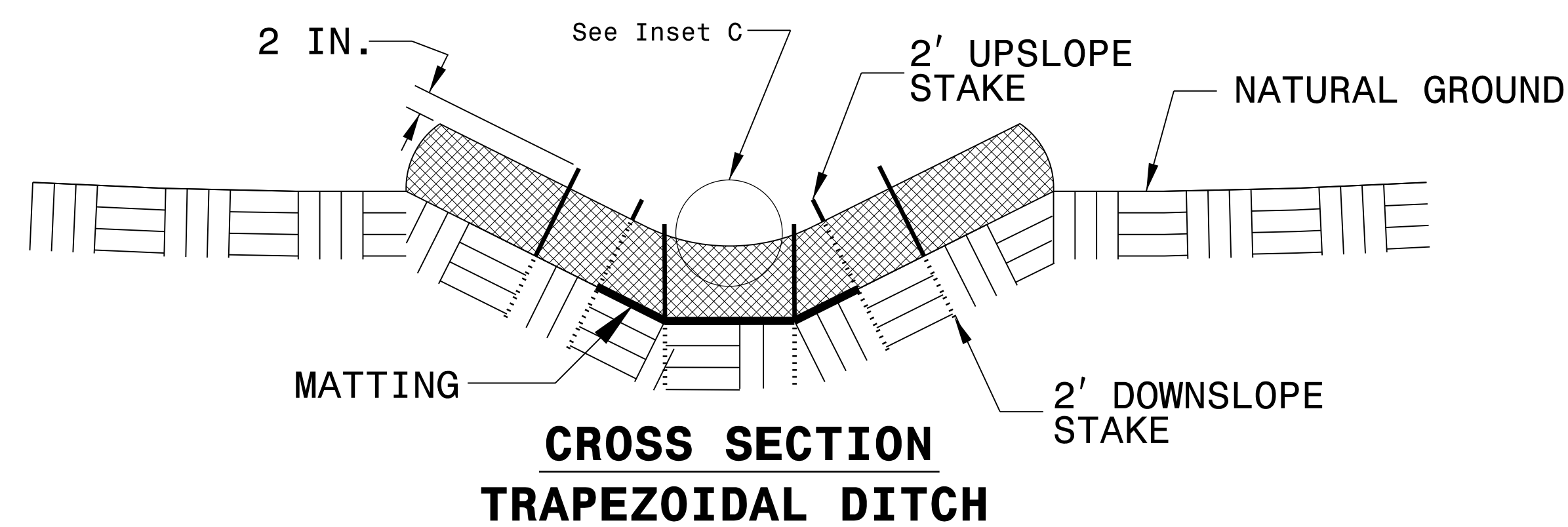
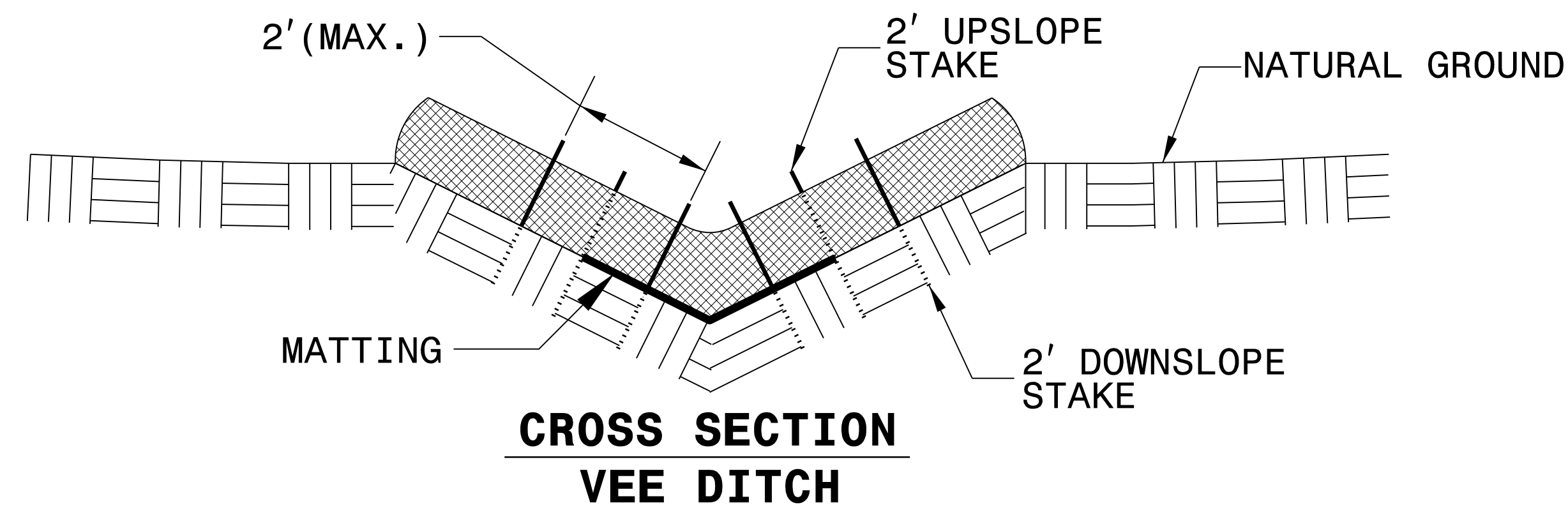
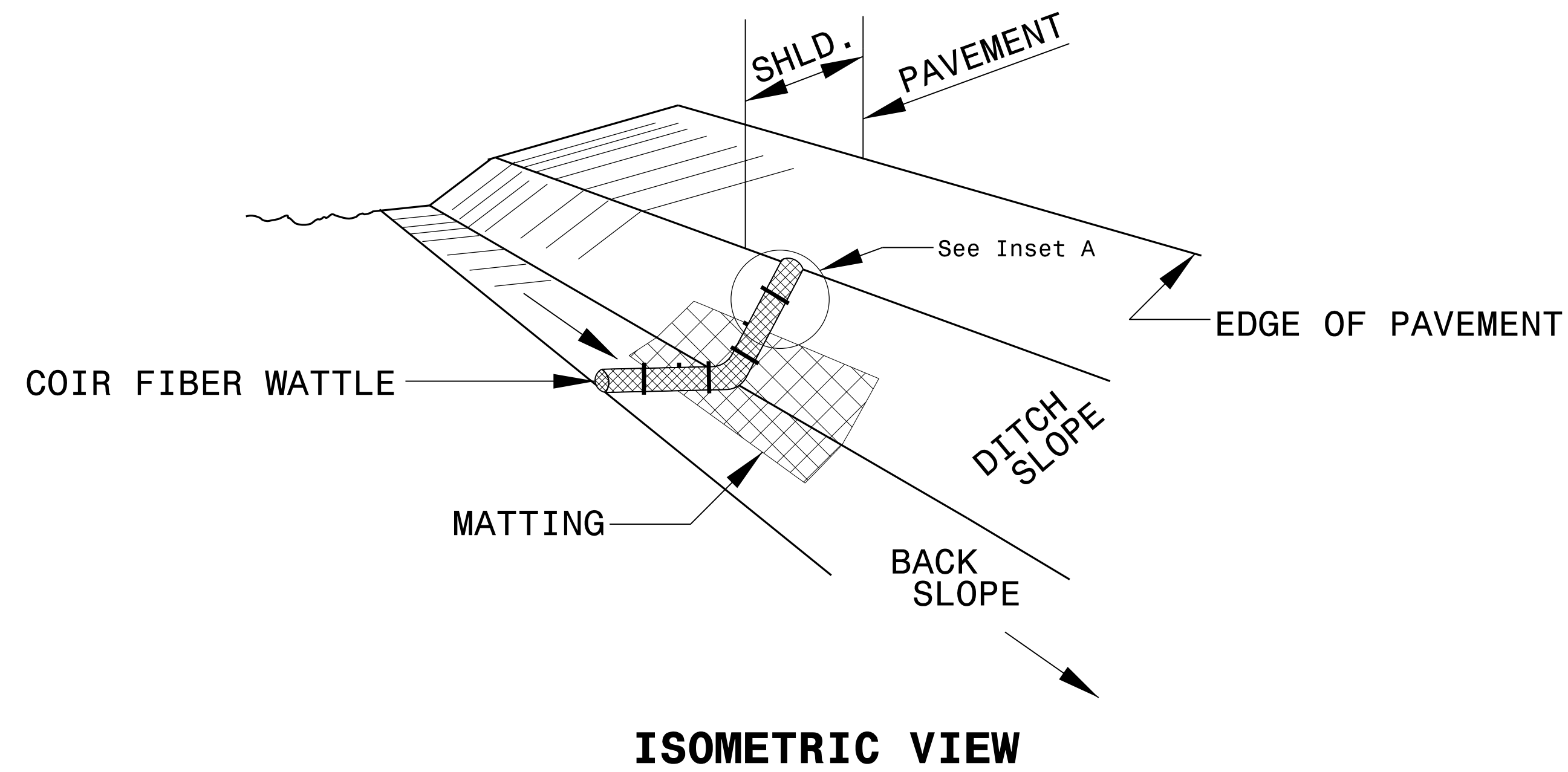


**NOTES:**

- 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.



# COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**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.

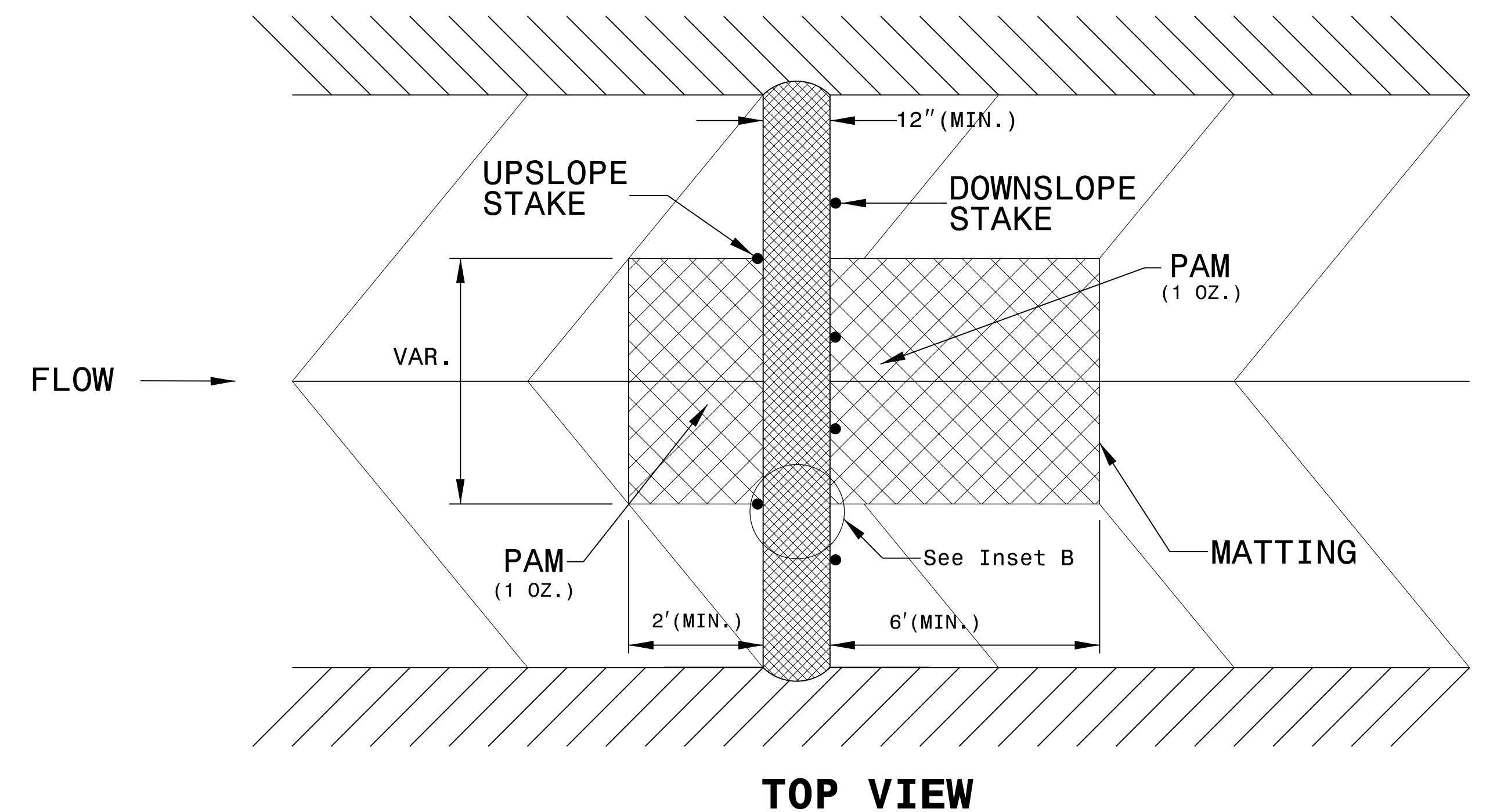
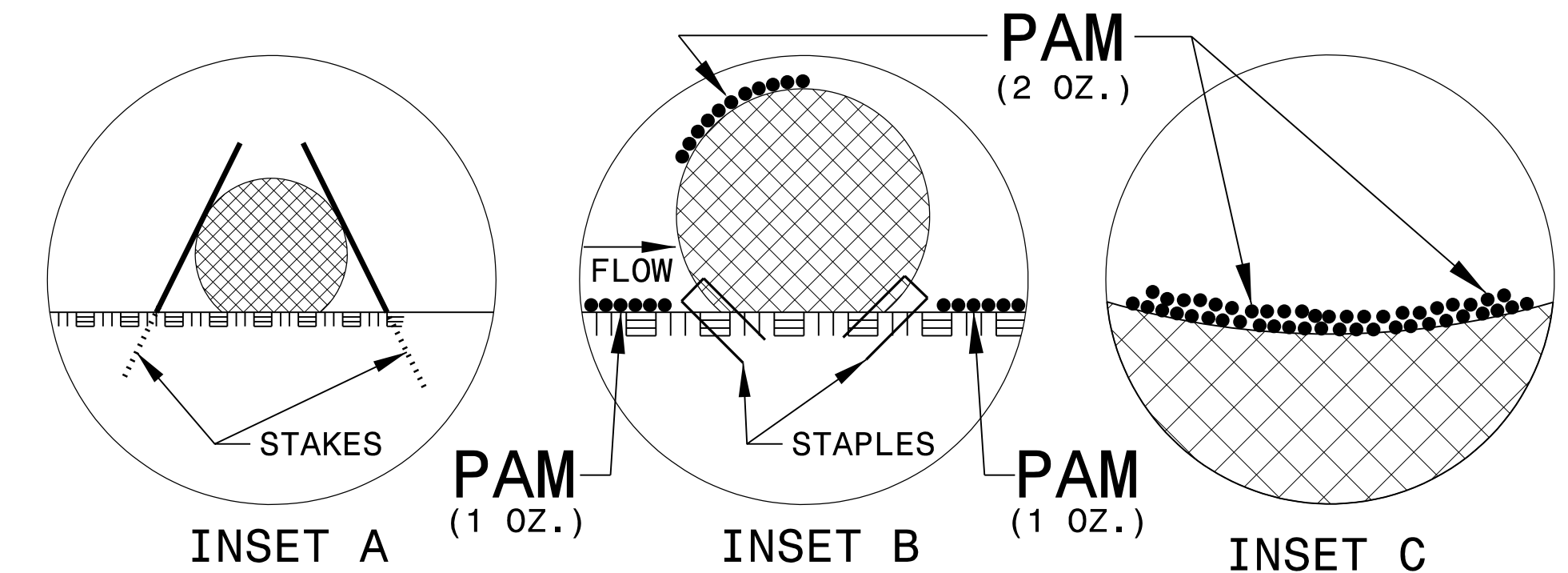
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

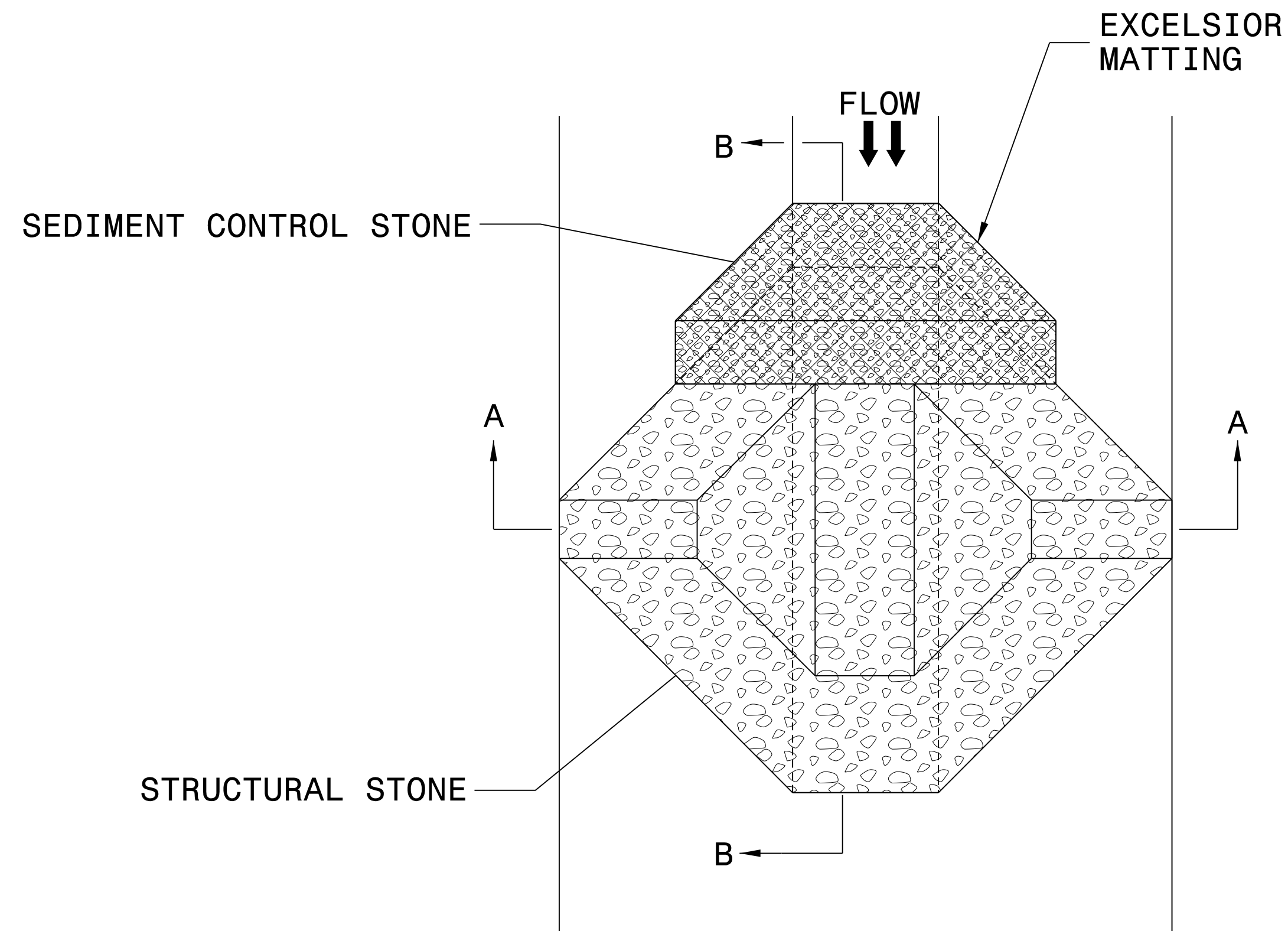
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

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.

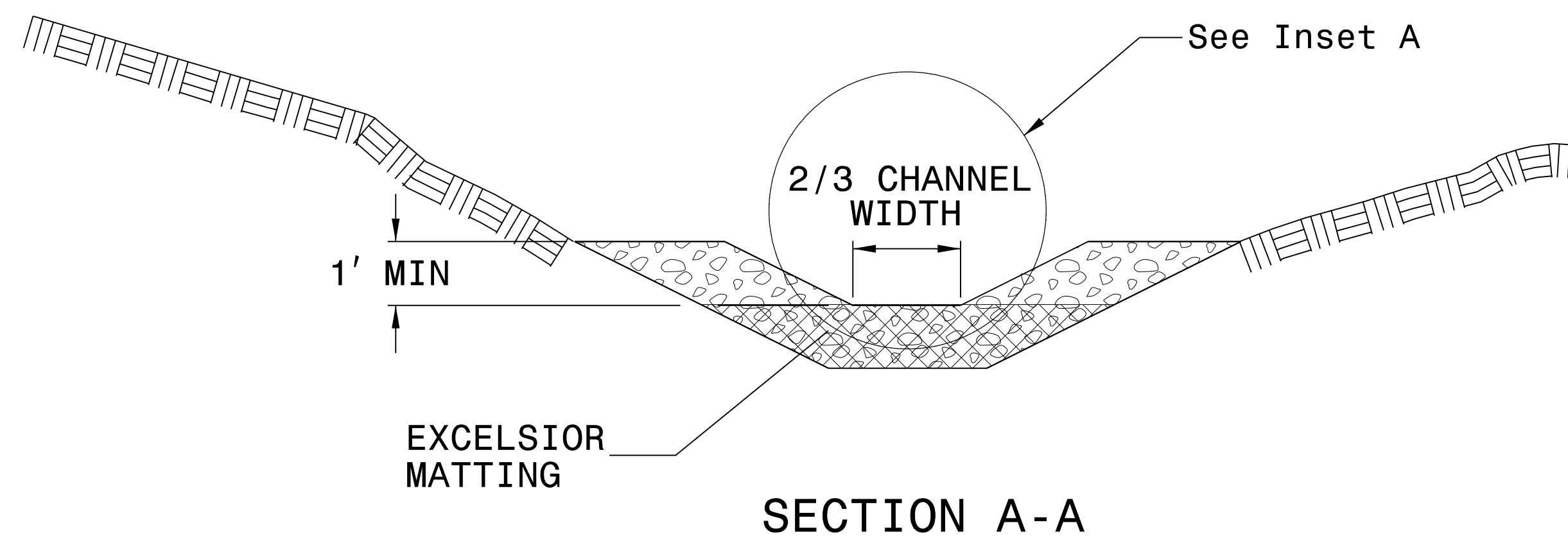




# TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN



SECTION A-A

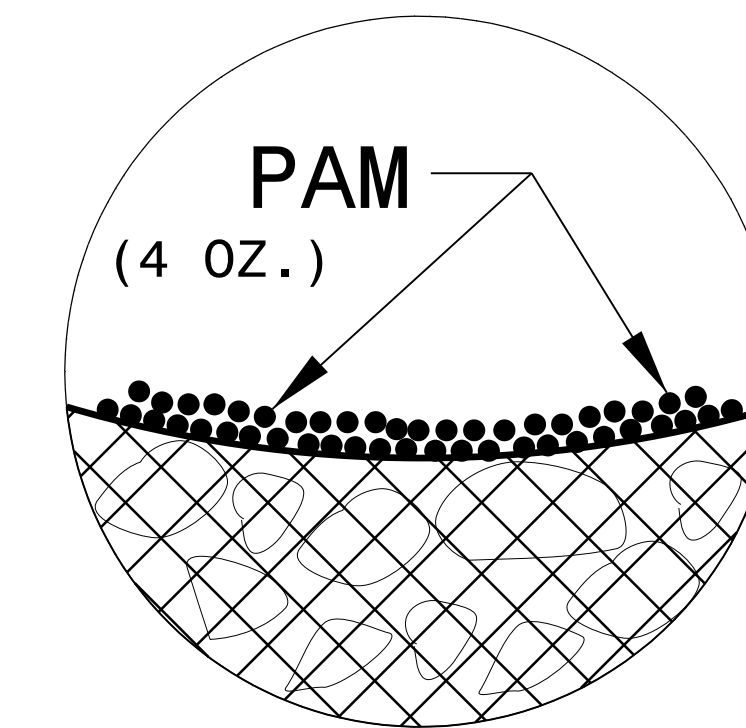
## NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

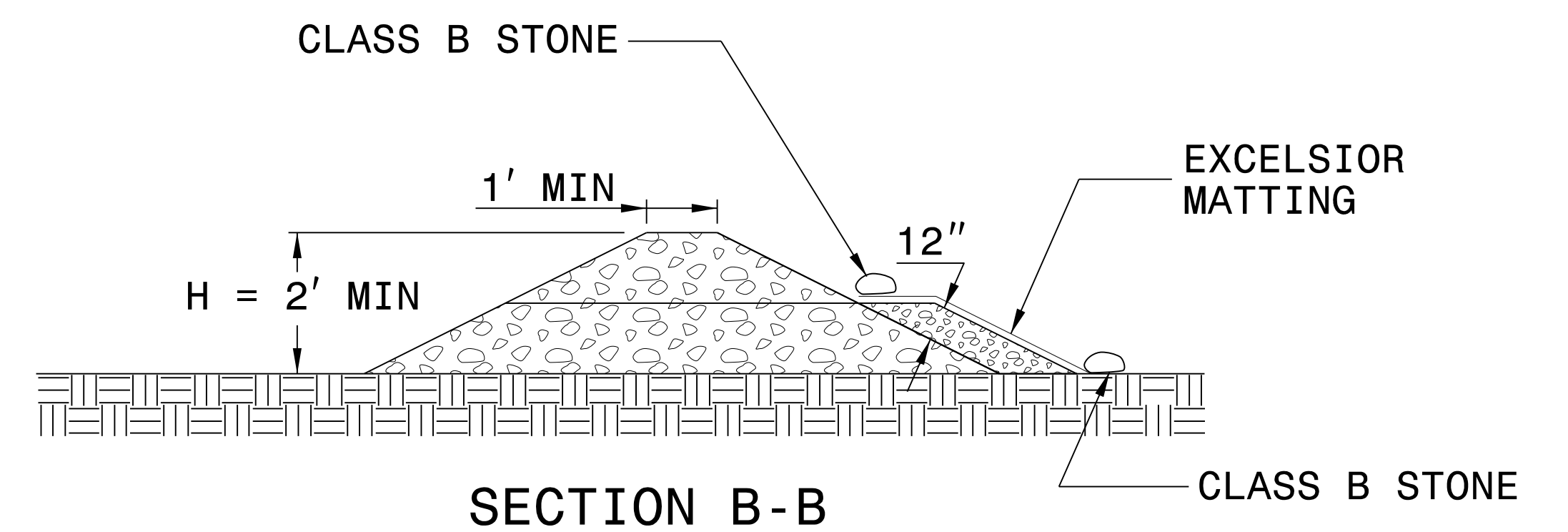
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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 ROCK SILT CHECK.

INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



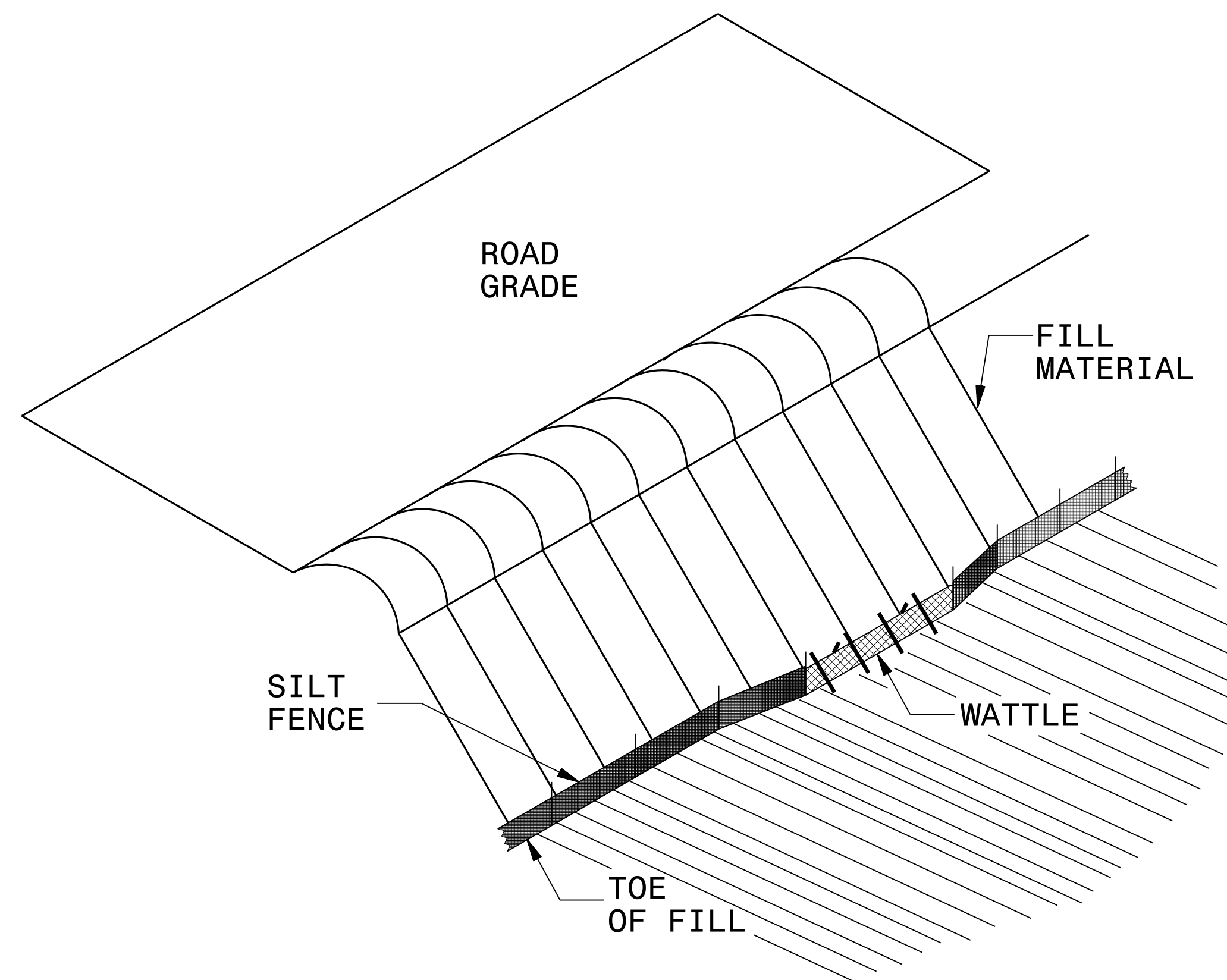
INSET A



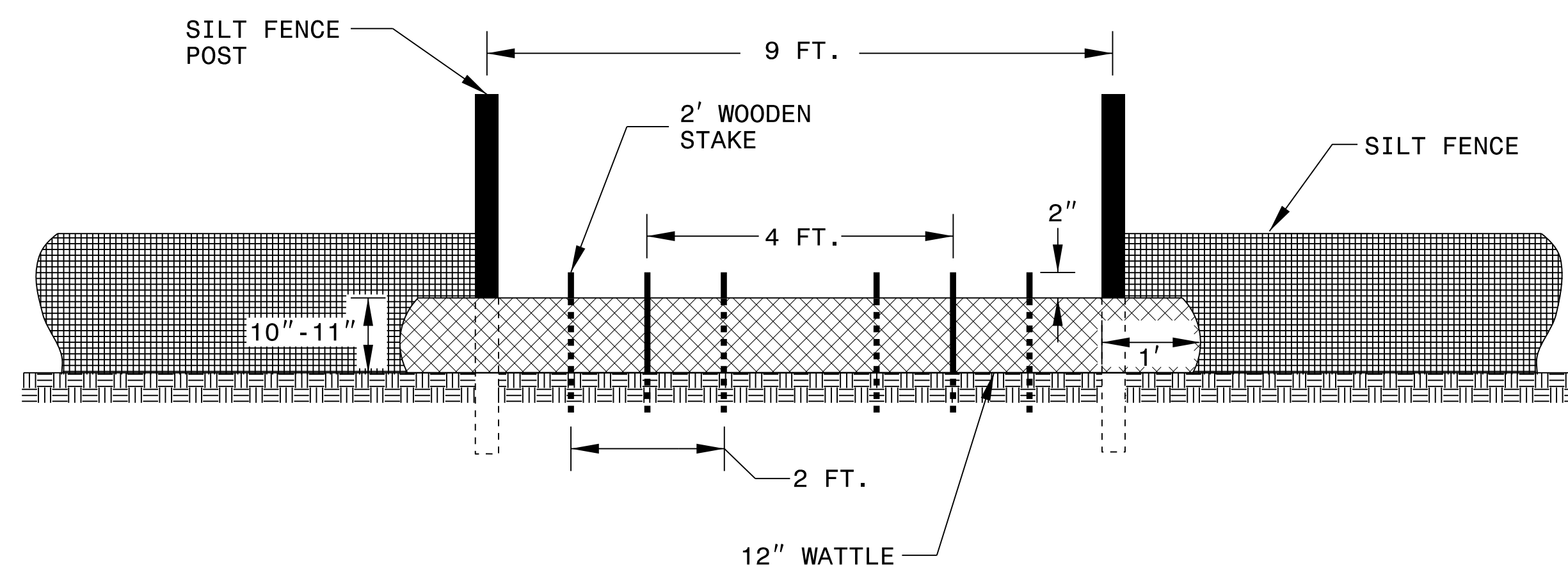
SECTION B-B

NOT TO SCALE

# SILT FENCE COIR FIBER WATTLE BREAK DETAIL



**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.

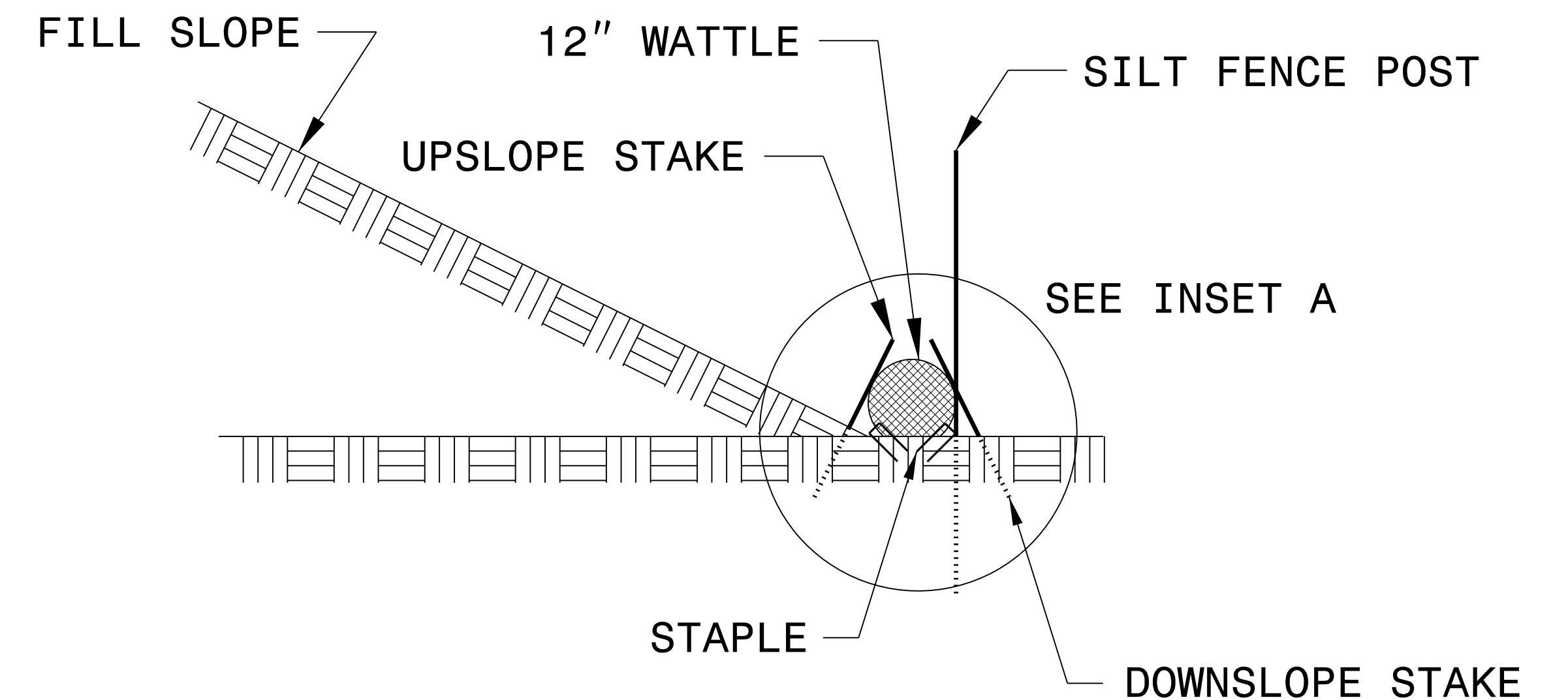
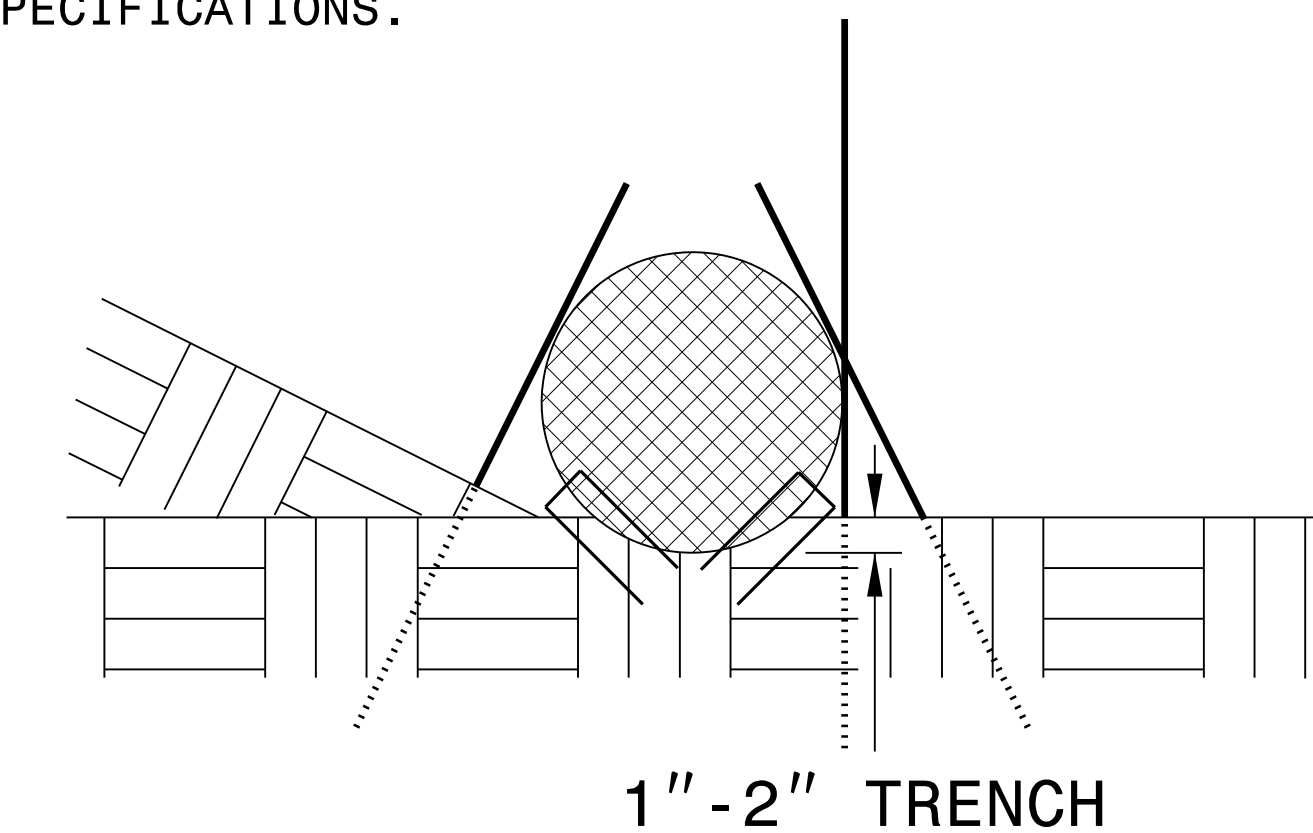
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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**

NOT TO SCALE





DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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## ***SOIL STABILIZATION TIMEFRAMES***

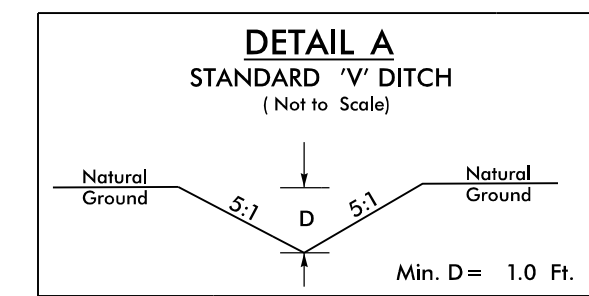
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

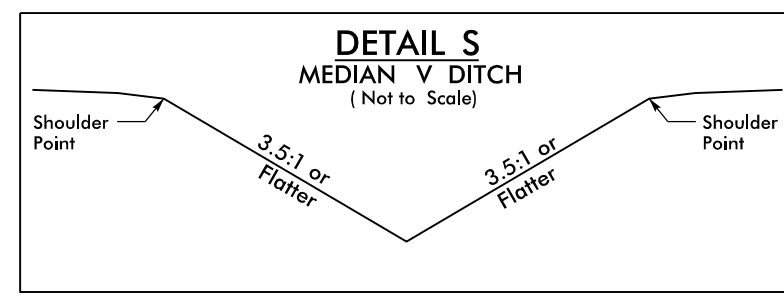
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

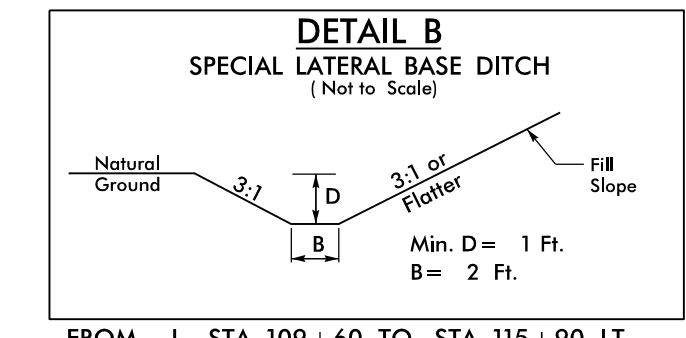
NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.



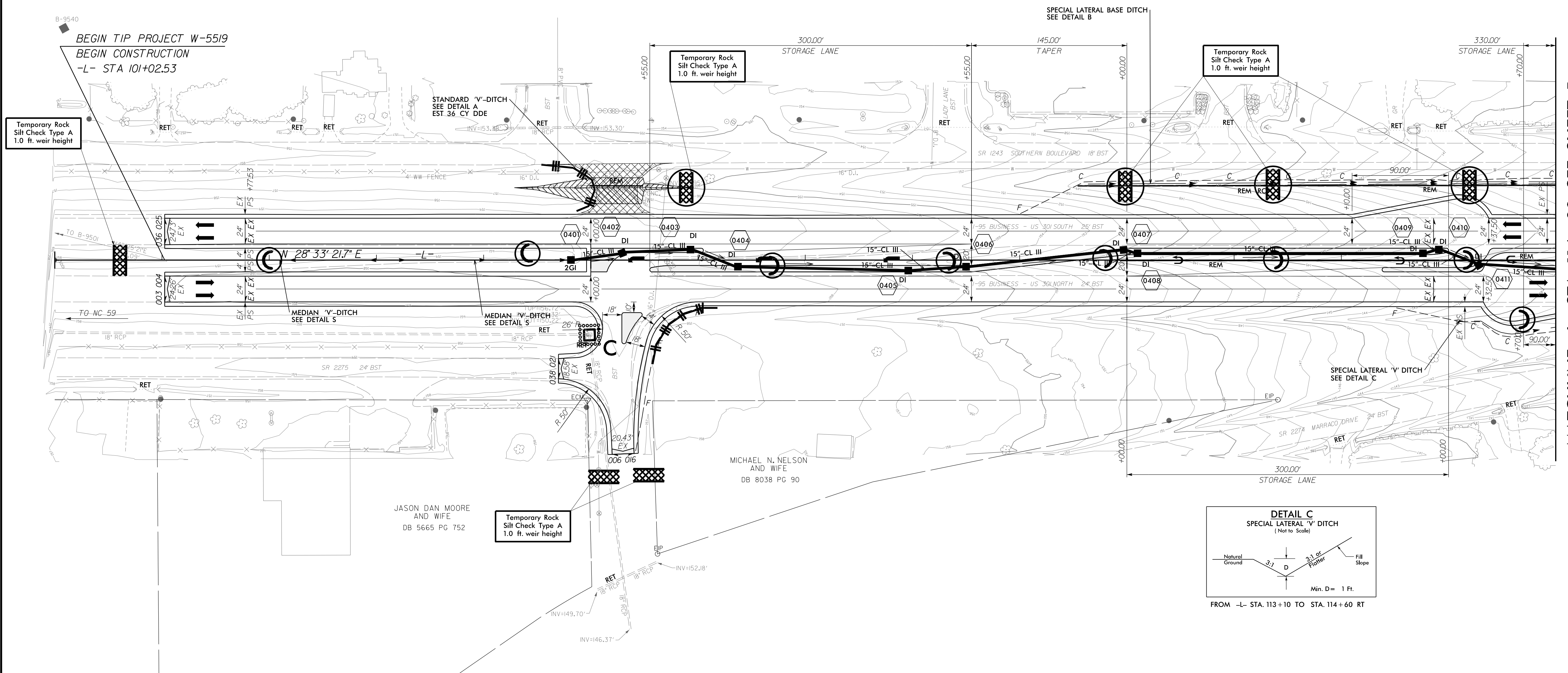
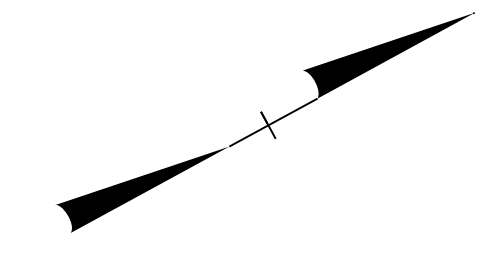
FROM -L- STA. 104+29, 67.4' LT TO STA. 105+96, 67.4' LT



FROM -L- STA. 102+10 TO STA. 104+80



FROM -L- STA. 109+60 TO STA. 115+90 LT



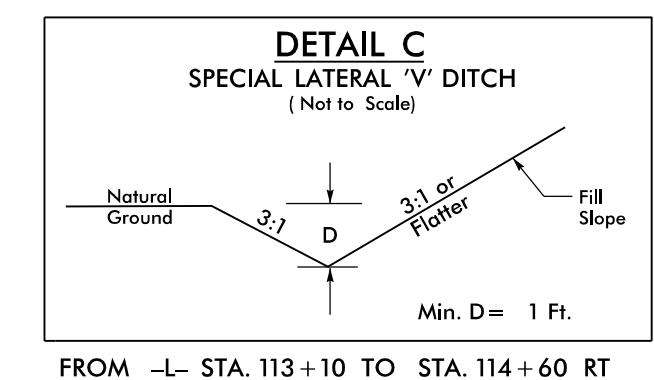
BEGIN TIP PROJECT W-5519  
BEGIN CONSTRUCTION  
-L- STA 101+02.53

Temporary Rock  
Silt Check Type A  
1.0 ft. weir height

Temporary Rock  
Silt Check Type A  
1.0 ft. weir height

Temporary Rock  
Silt Check Type A  
1.0 ft. weir height

Temporary Rock  
Silt Check Type A  
1.0 ft. weir height



FROM -L- STA. 113+10 TO STA. 114+60 RT

**DATUM DESCRIPTION**  
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT  
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY  
NCGS FOR MONUMENT "B-9501"  
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF  
NORTHING: 435297.993(ft) EASTING: 2020411.296(ft)  
ELEVATION: 169.30(ft)  
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT  
(GROUND TO GRID) IS: 0.99987968  
THE N.C. LAMBERT GRID BEARING AND  
LOCALIZED HORIZONTAL GROUND DISTANCE FROM

FOR DITCH DETAILS SEE SHEET 2-  
FOR DIRECTIONAL CROSSOVER AND MEDIAN U-TURN  
DETAILS SEE SHEETS 2-C THRU 2-F

MATCHLINE -L- STA 114+00 SEE SHEET 5

8/17/99  
9/4/2015  
R:\Roads\de W-5519\_REL\PSH4\_CG.dgn  
Local User

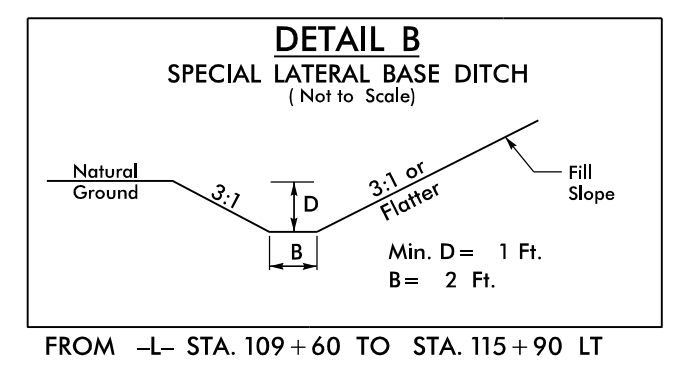


CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 5

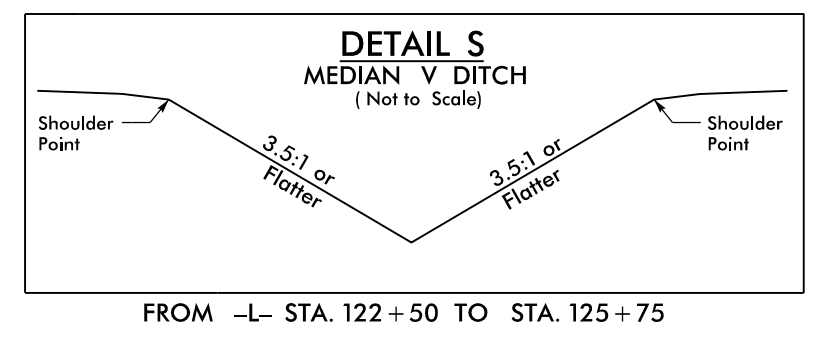
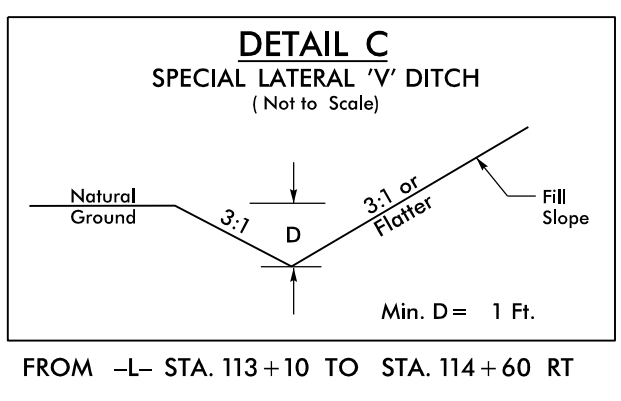
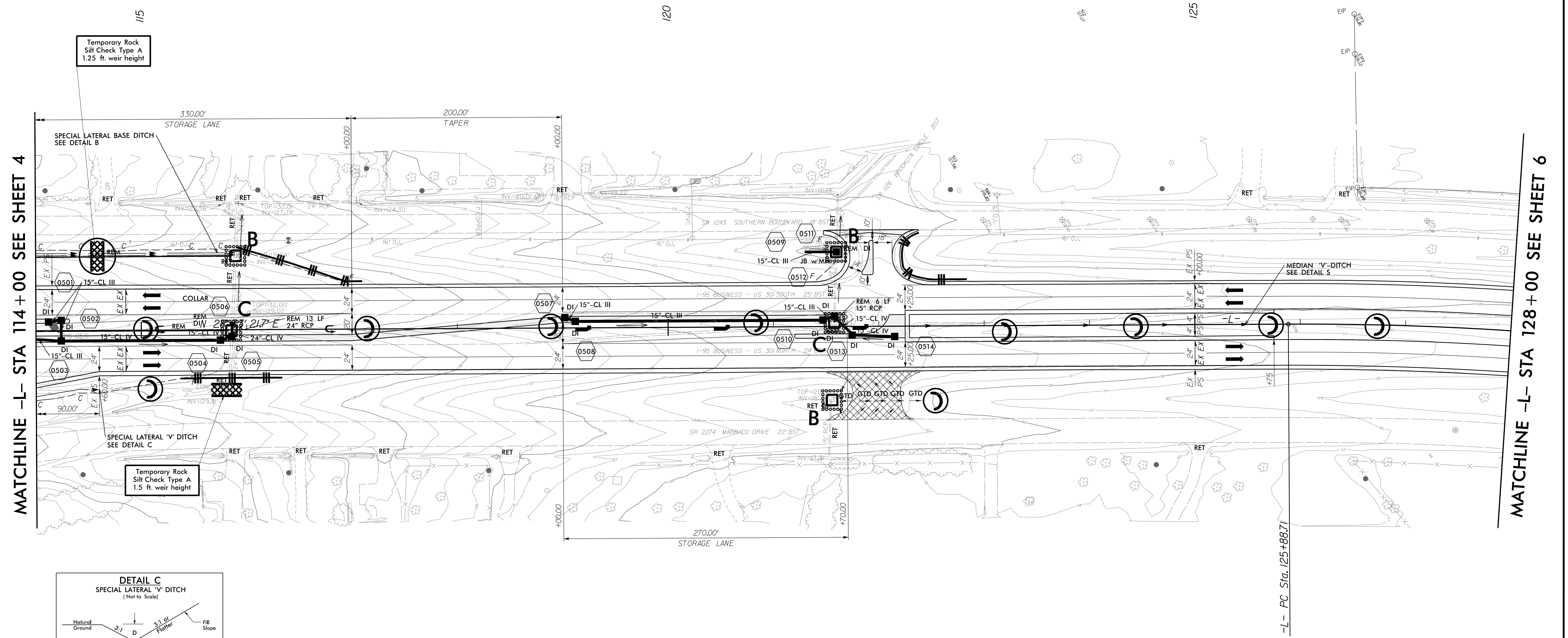
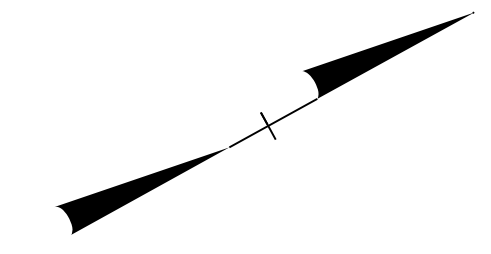
NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

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

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.



-L-  
 $PI\ Sta\ 128+52.74$   
 $\Delta = 10^{\circ}03'32.5'' (RT)$   
 $D = 1^{\circ}54'35.5''$   
 $L = 526.69'$   
 $T = 264.02'$   
 $R = 3,000.00'$

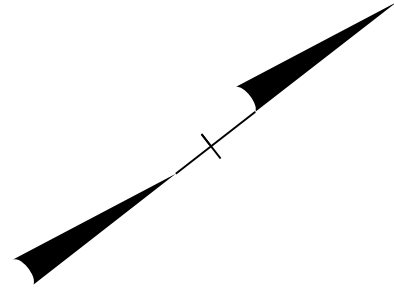


MATCHLINE -L- STA 114+00 SEE SHEET 4

MATCHLINE -L- STA 128+00 SEE SHEET 6

8/17/99  
  
9/4/2015  
R:\Roads\de\w-5519\_REL\PSH5.CG.dgn  
loc\user





-L-  
 PI Sta 128+52.74  
 $\Delta = 10^{\circ} 03' 32.5''$  (RT)  
 $D = 154' 35.5''$   
 $L = 526.69'$   
 $T = 264.02'$   
 $R = 3,000.00'$

CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 6

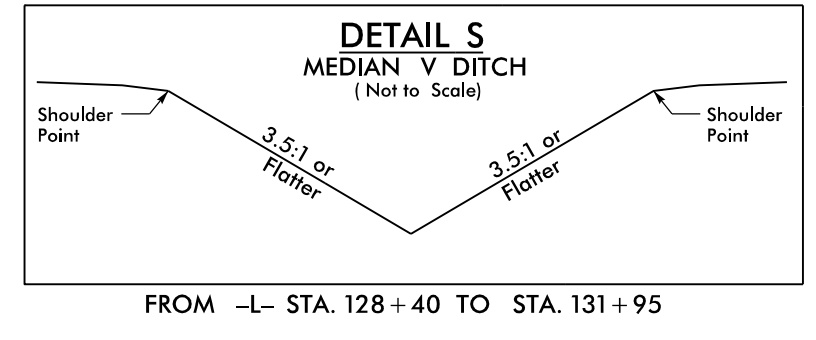
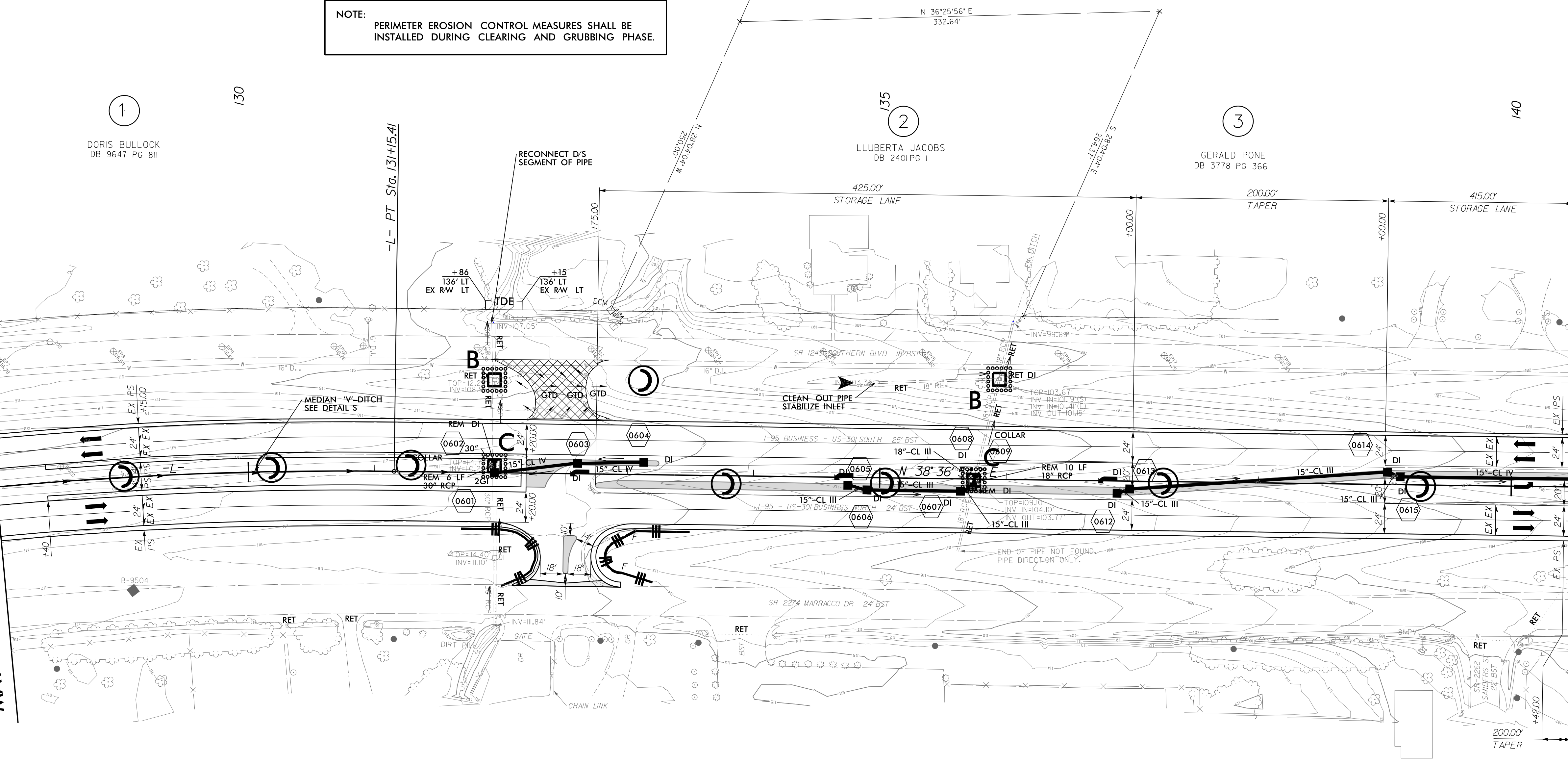
NOTE:  
 SILT FENCE AND COIR FIBER WATTLE BREAKS  
 SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

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

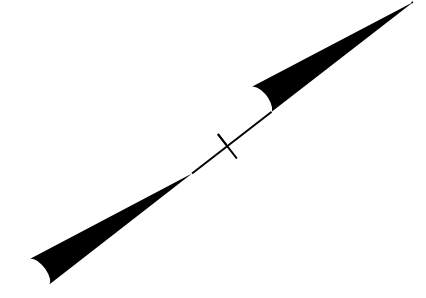
NOTE:  
 PERIMETER EROSION CONTROL MEASURES SHALL BE  
 INSTALLED DURING CLEARING AND GRUBBING PHASE.

MATCHLINE -L- STA 128+00 SEE SHEET 5

MATCHLINE -L- STA 140+50 SEE SHEET 7







-L-  
PI Sta 155+39.37  
 $\Delta = 16' 34" 29.7" (LT)$   
 $D = 1' 54" 35.5"$   
 $L = 867.86'$   
 $T = 436.98'$   
 $R = 3,000.00'$

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 7

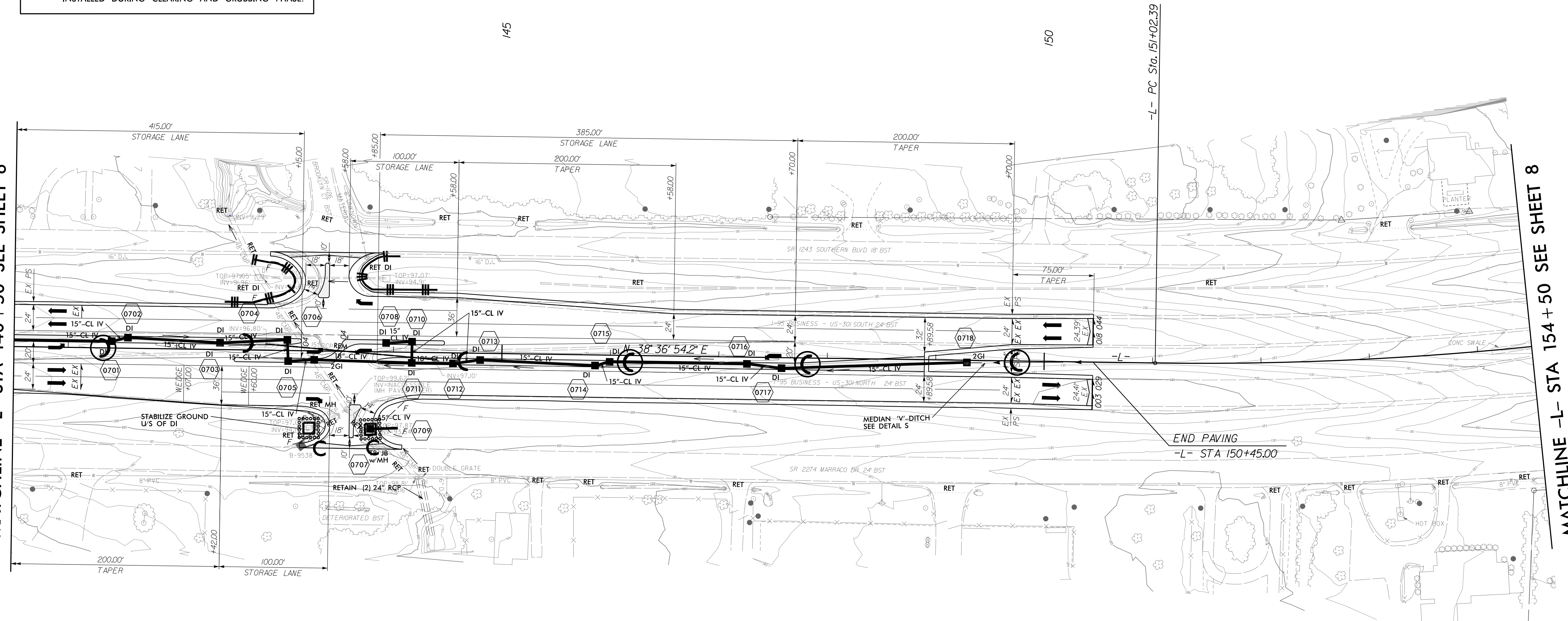
NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

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

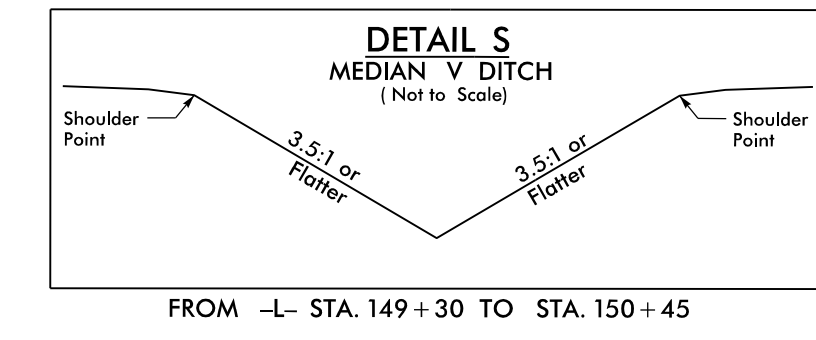
NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

MATCHLINE -L- STA 140+50 SEE SHEET 6

MATCHLINE -L- STA 154+50 SEE SHEET 8



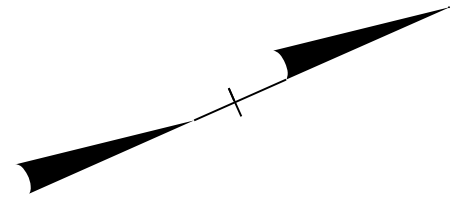
END PAVING  
-L- STA 150+45.00



8/17/99

9/14/2015  
R:\Projects\W-5519\_REU\_PSH7\_CG.dgn  
localuser





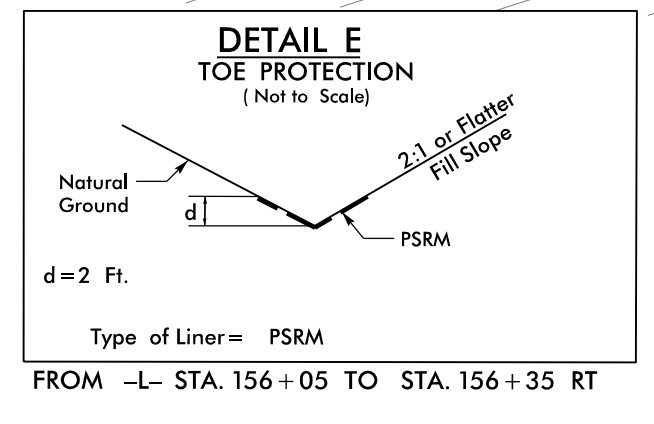
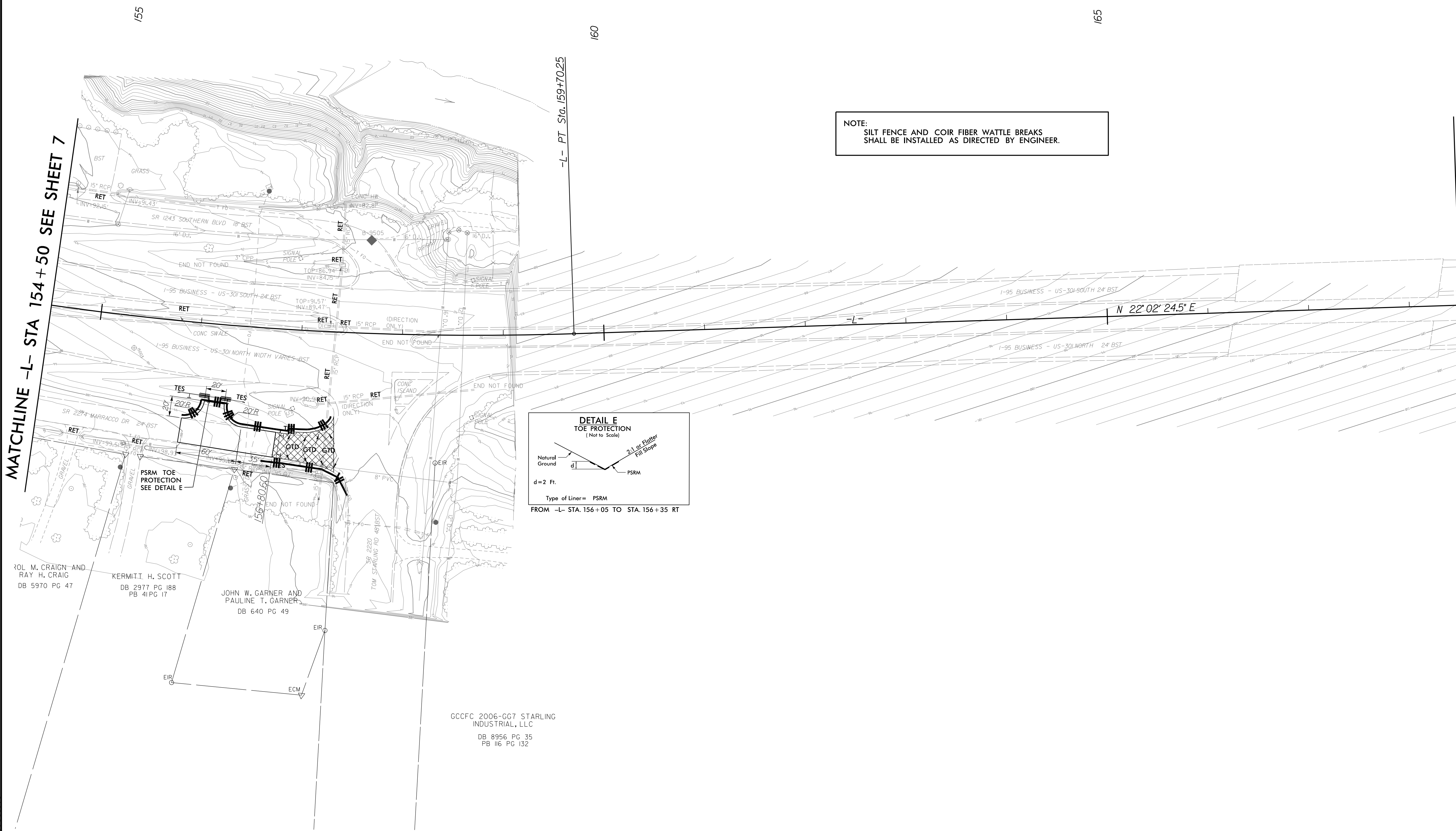
**CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 8**

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

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

-L-  
 $PI\ Sta\ 155+39.37$   
 $\Delta = 16^{\circ} 34' 29.7" (LT)$   
 $D = 154' 35.5"$   
 $L = 867.86'$   
 $T = 436.98'$   
 $R = 3,000.00'$



MATCHLINE -L- STA 154+50 SEE SHEET 7

MATCHLINE -L- STA 168+50 SEE SHEET 9

8/17/99  
9/4/2015  
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ccoluser

GCCFC 2006-GG7 STARLING  
INDUSTRIAL, LLC  
DB 8956 PG 35  
PB 116 PG 132

















CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 13

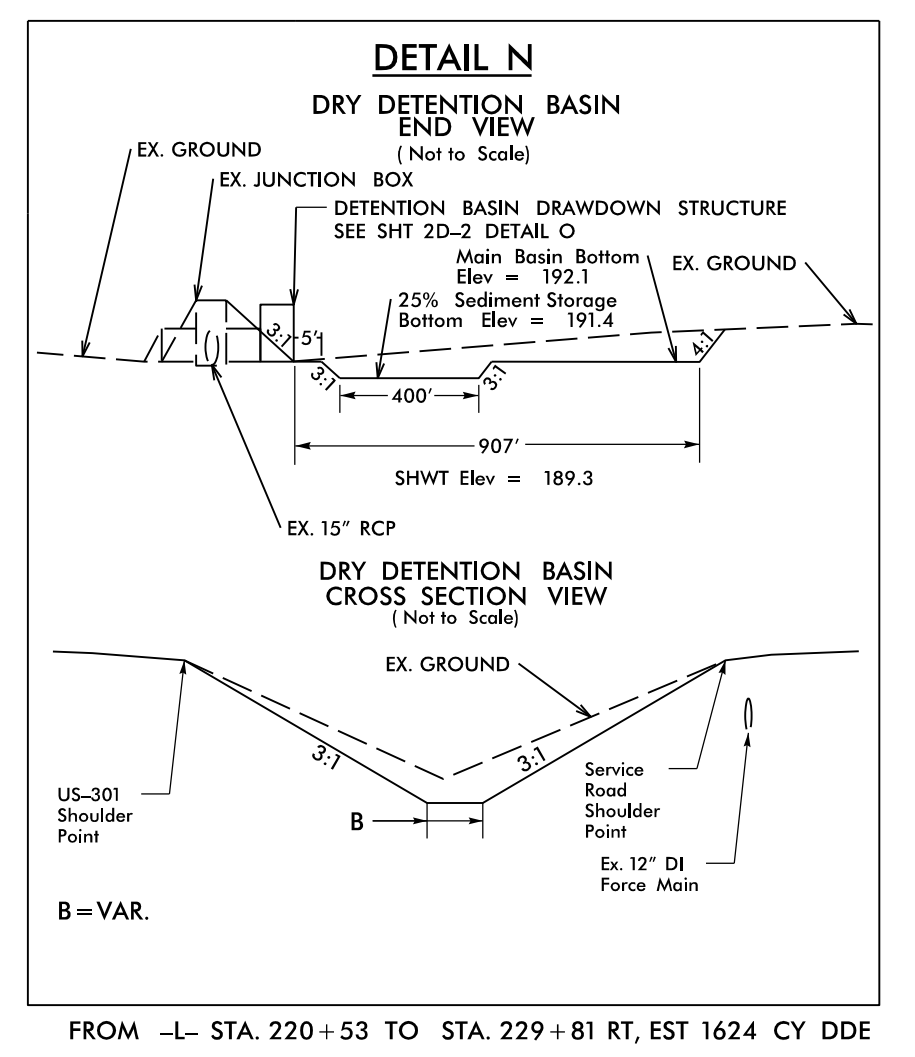
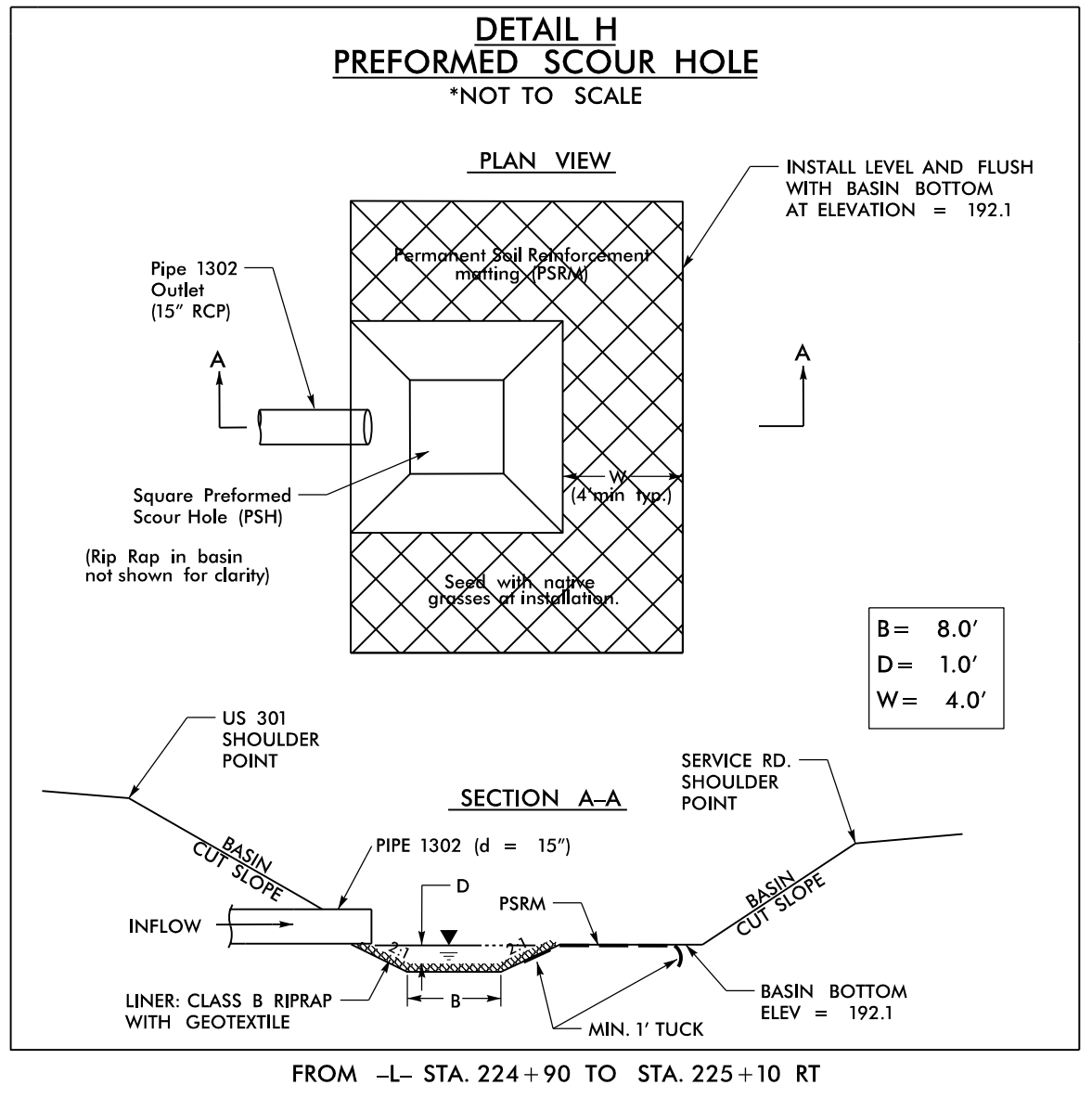
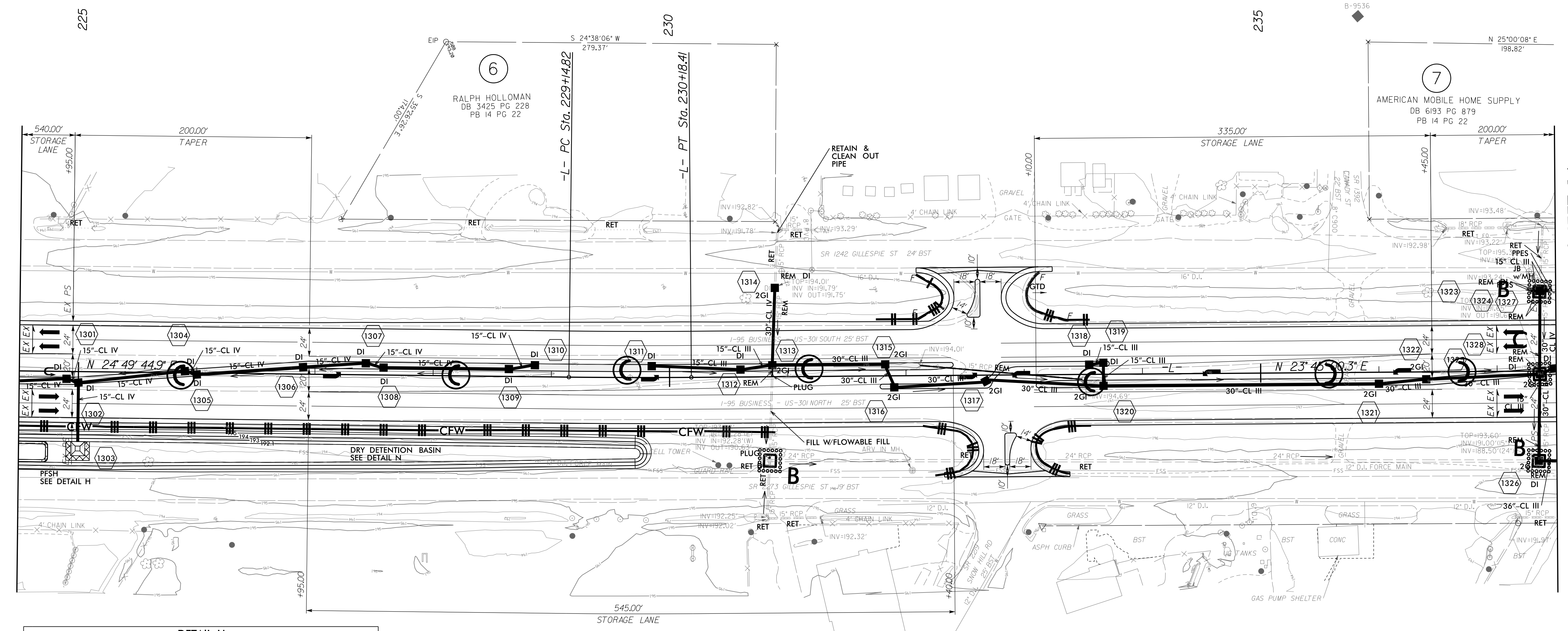
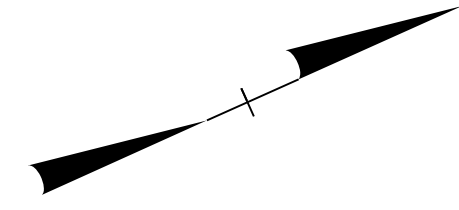
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

-L-

PI Sta 229+66.62  
 $\Delta = 1^{\circ}04'44.6''$  (LT)  
 $D = 1^{\circ}02'30.3''$   
 $L = 103.58'$   
 $T = 51.79'$   
 $R = 5,500.00'$

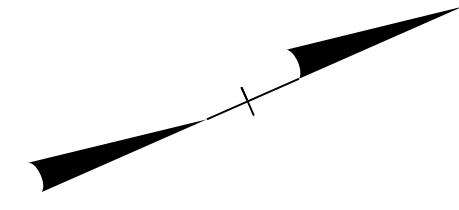
NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.



MATCHLINE -L- STA 237+50 SEE SHEET 14

8/17/99  
 9/4/2015  
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 Local User



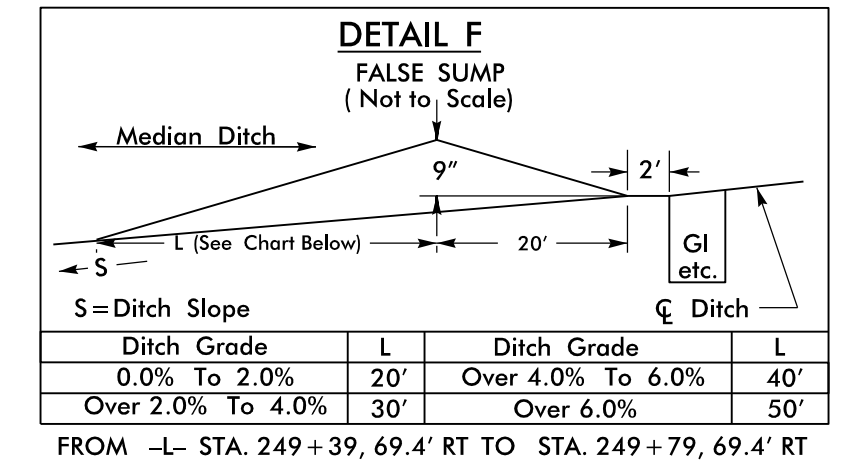


CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 14

NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

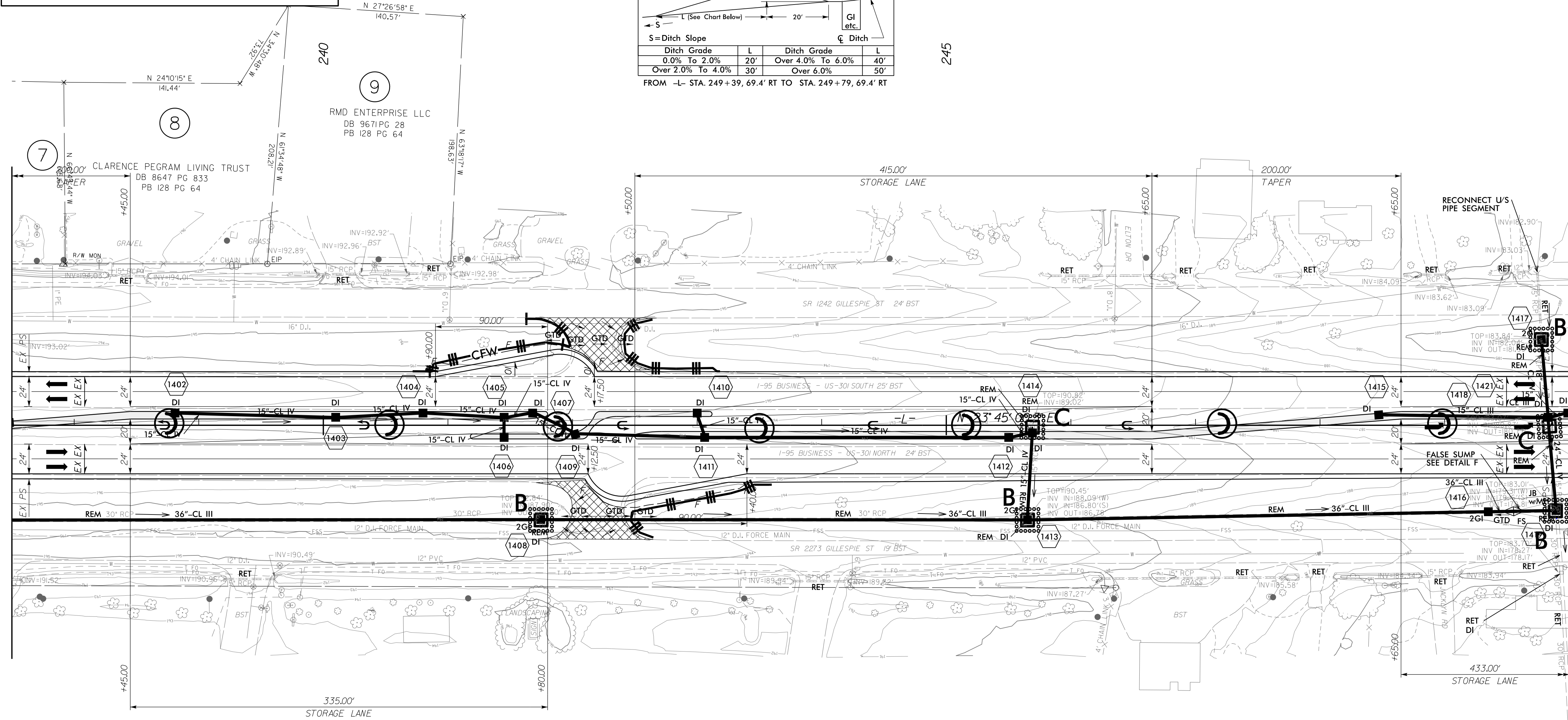
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.



MATCHLINE -L- STA 237+50 SEE SHEET 13

MATCHLINE -L- STA 250+00 SEE SHEET 15



8/17/99

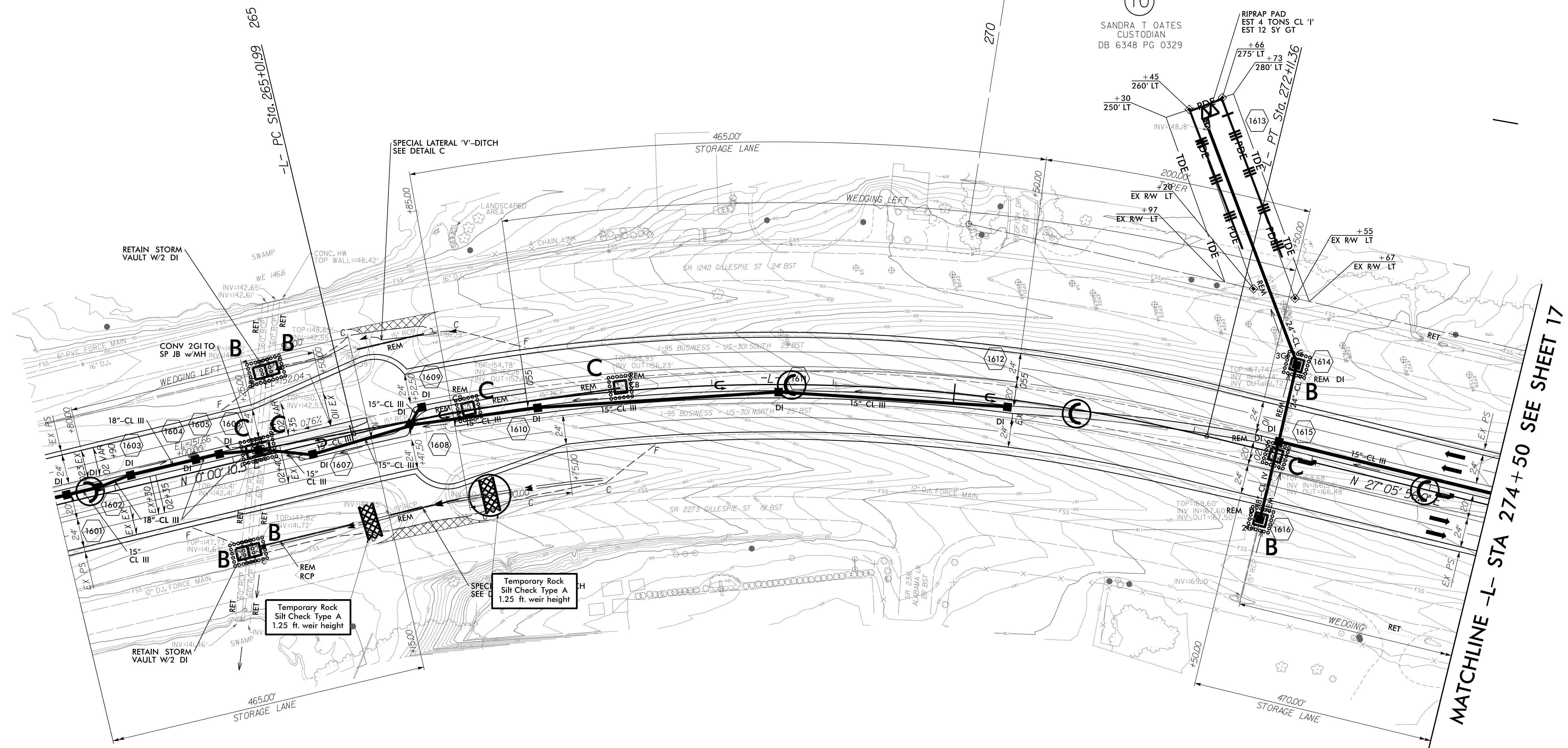
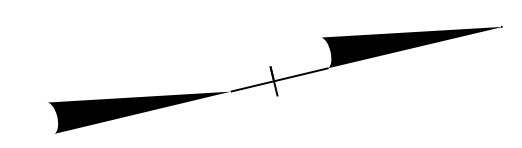






NOTE:  
 SILT FENCE AND COIR FIBER WATTLE BREAKS  
 SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

-L-  
 PI Sta 268+63.44  
 $\Delta = 27^{\circ} 05' 45.5" (RT)$   
 $D = 3^{\circ} 49' 11.0"$   
 $L = 709.37'$   
 $T = 361.45'$   
 $R = 1,500.00'$

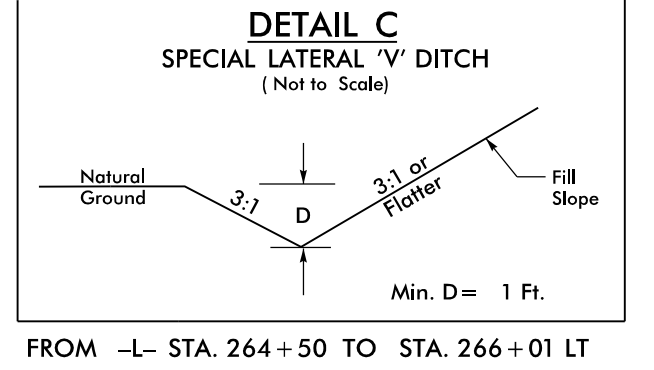
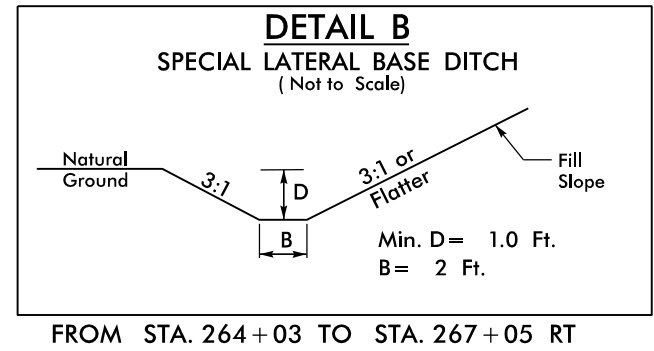


MATCHLINE -L- STA 274+50 SEE SHEET 17

CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 16

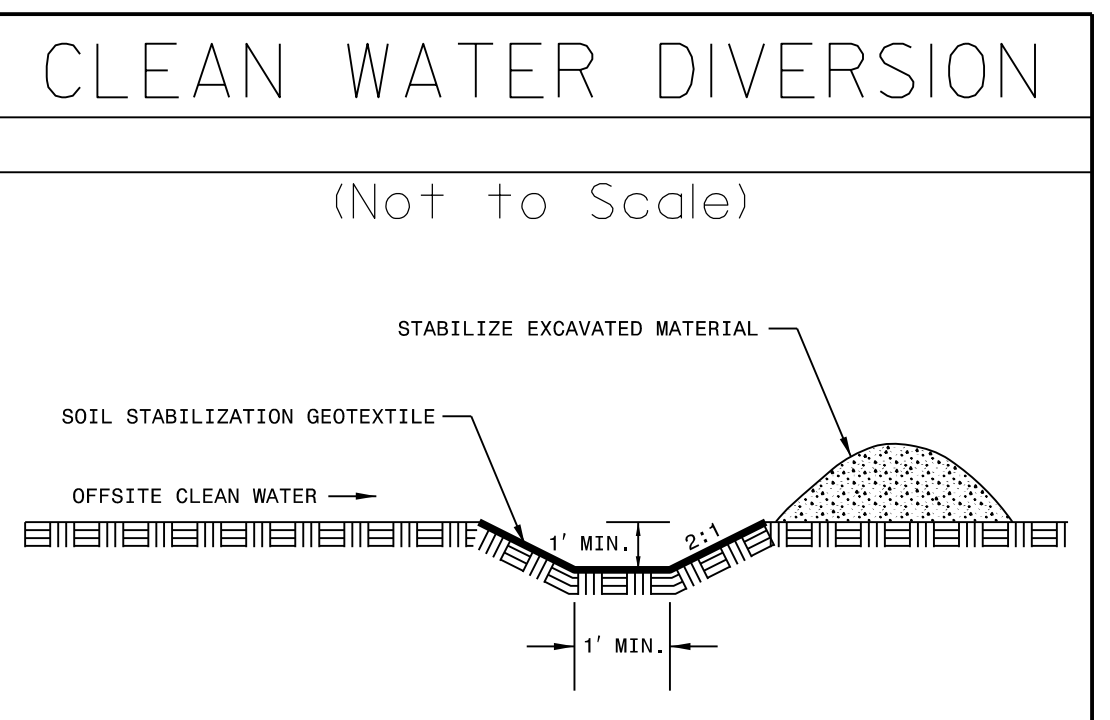
NOTE:  
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
 DRAINAGE OUTLETS.

NOTE:  
 PERIMETER EROSION CONTROL MEASURES SHALL BE  
 INSTALLED DURING CLEARING AND GRUBBING PHASE.



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 9/4/2015  
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 localuser

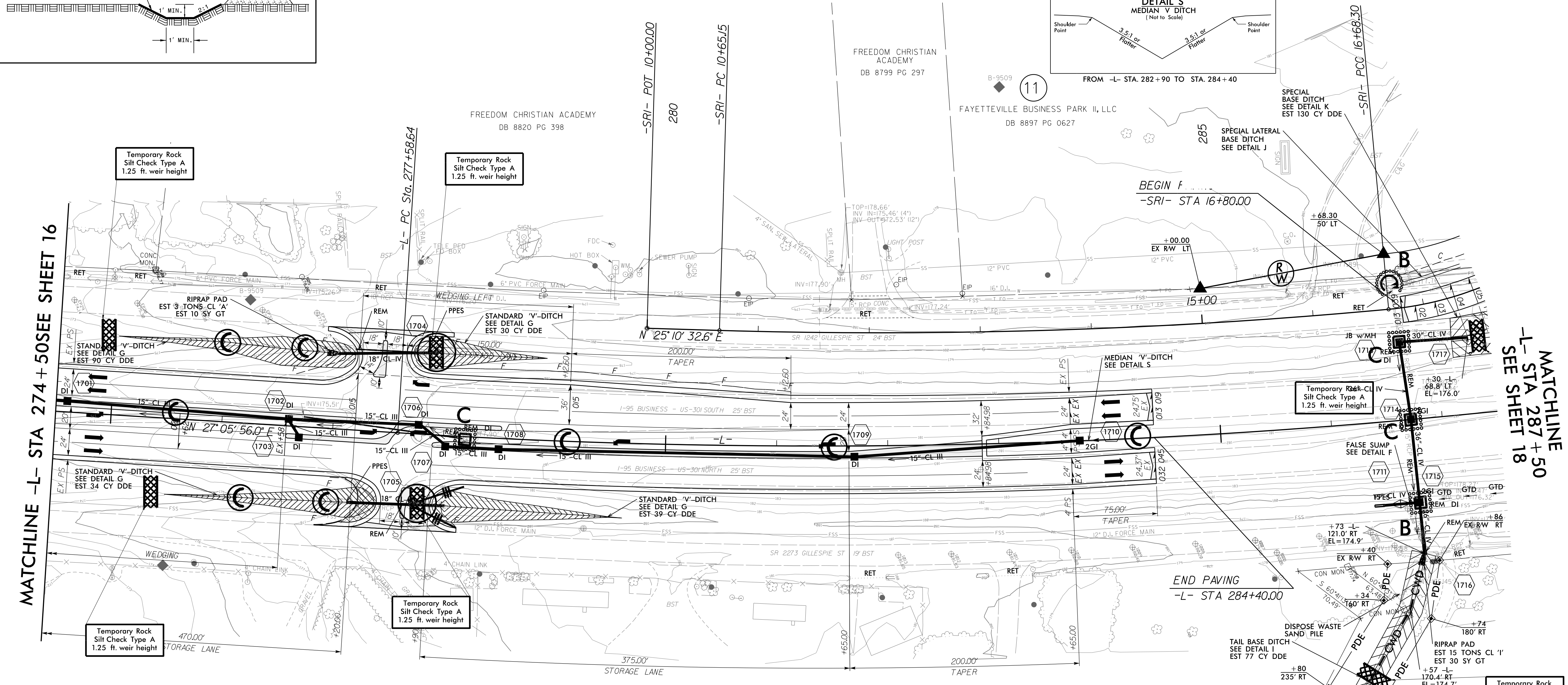
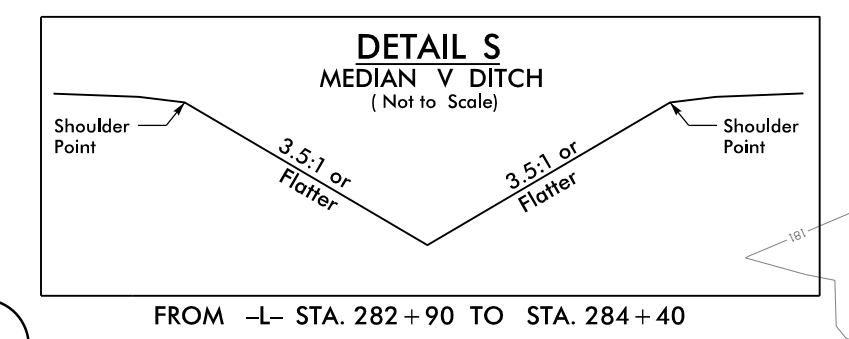




**NOTE:**  
SILT FENCE AND COIR FIBER WATTLE BREAKS SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

LINE CLEAR WATER DIVERSION WITH MATTING DURING C&G PHASE

<p style="text-align: center;">-SRI-</p> <p>PI Sta 13+67.10  <math>\Delta = 6^\circ 59' 18.5" (LT)</math>  <math>D = 1'09' 31.2"</math>  <math>L = 603.15'</math>  <math>T = 301.95'</math>  <math>R = 4,945.00'</math></p>	<p style="text-align: center;">-SRI-</p> <p>PI Sta 18+17.92  <math>\Delta = 53^\circ 00' 48.0" (LT)</math>  <math>D = 19' 05' 54.9"</math>  <math>L = 277.58'</math>  <math>T = 149.62'</math>  <math>R = 300.00'</math>  <math>DS = 30</math>  <math>e = .06</math>  <math>RO = 109'</math></p>	<p style="text-align: center;">-L-</p> <p>PI Sta 282+84.62  <math>\Delta = 10^\circ 01' 11.8" (LT)</math>  <math>D = 0' 57' 17.7"</math>  <math>L = 1,049.29'</math>  <math>T = 525.98'</math>  <math>R = 6,000.00'</math></p>
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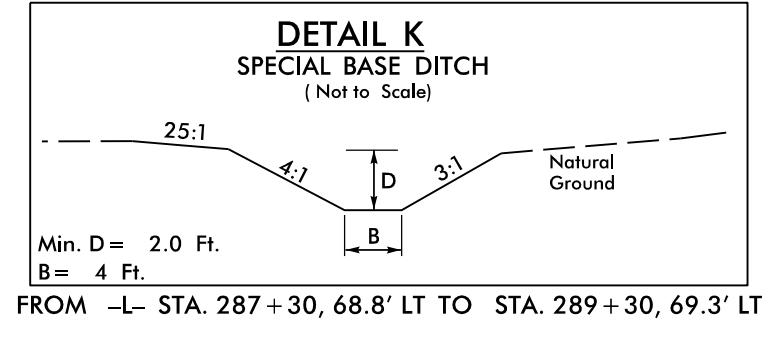
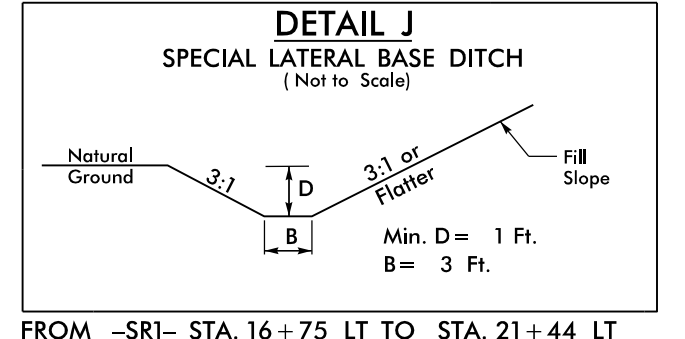
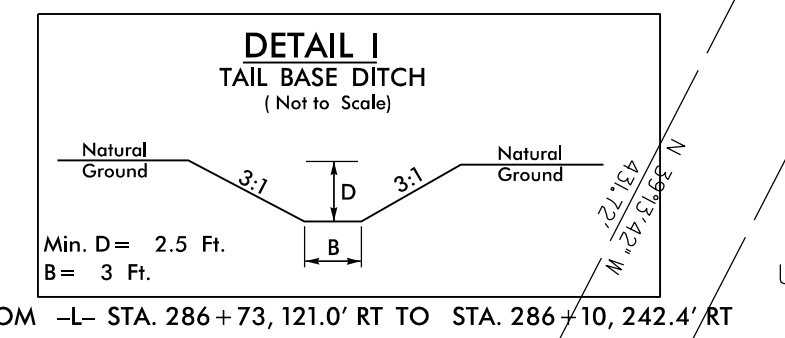
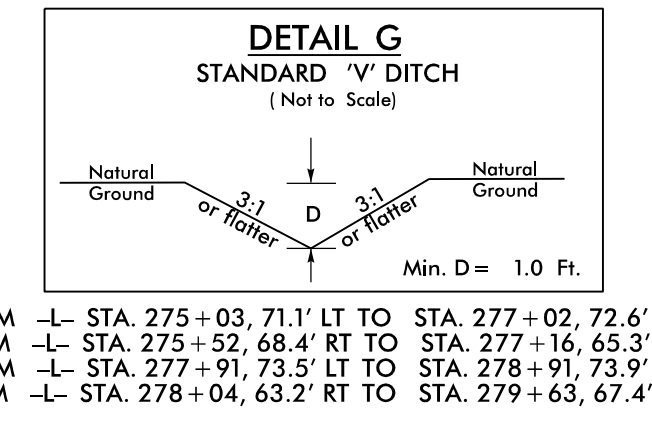
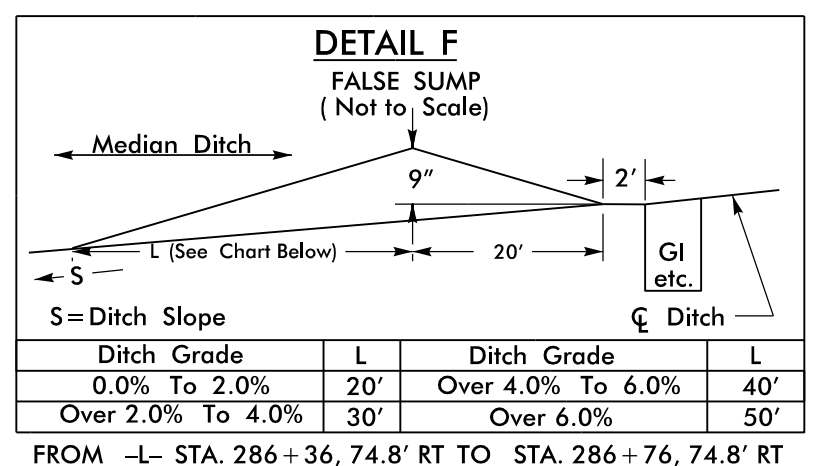


CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 17

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


**NOTE:**  
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

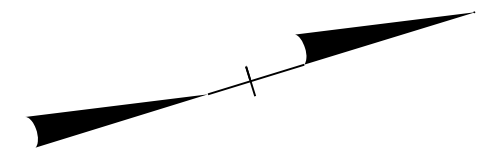
Place Matting for Erosion Control in Temporary Ditches and Diversions.



8/17/99  
9/4/2015  
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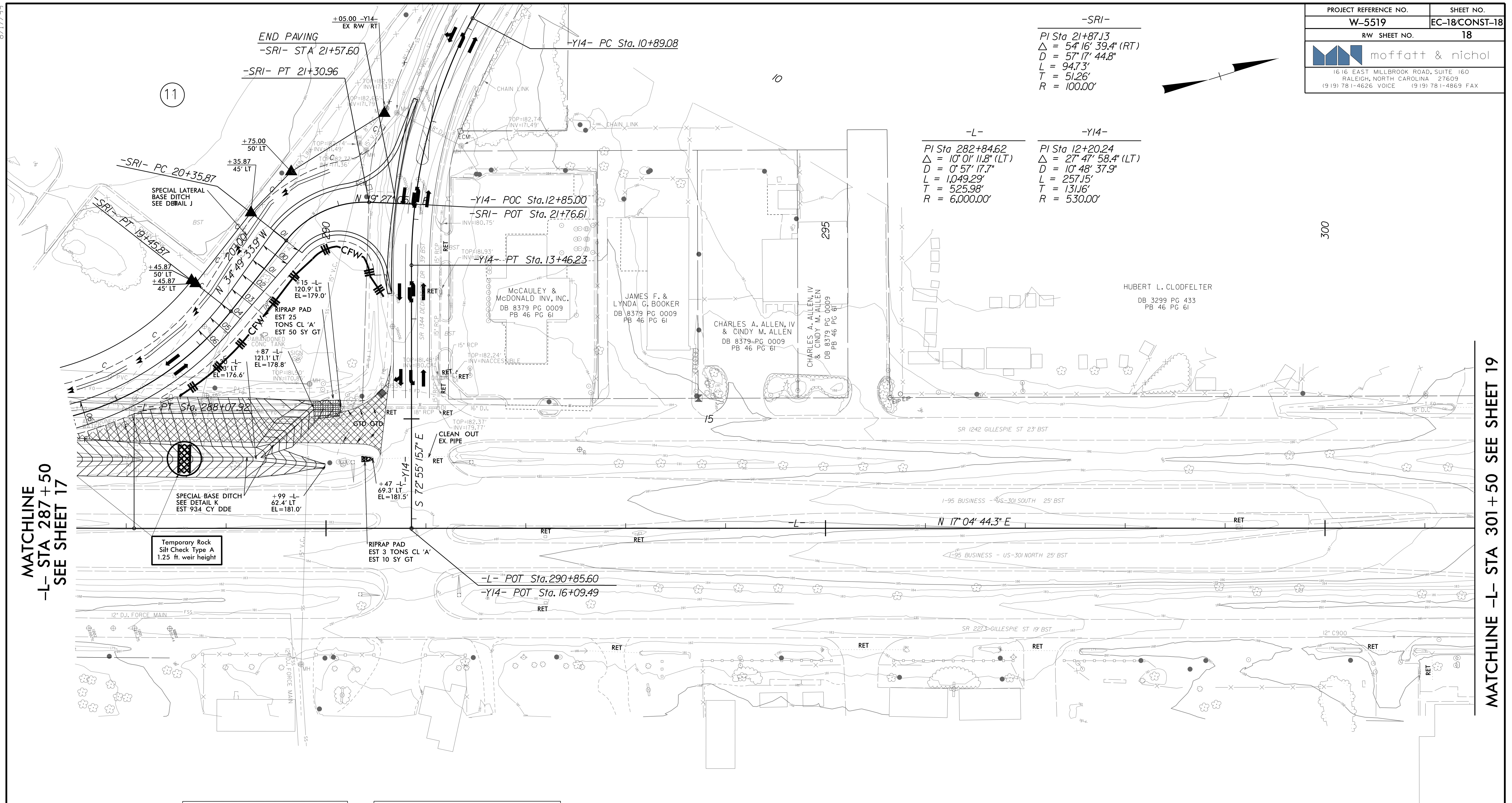
PROJECT REFERENCE NO.	SHEET NO.
W-5519	EC-18/CONST-18
RW SHEET NO.	18
	
1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 781-4626 VOICE (919) 781-4869 FAX	



-SRI-  
 PI Sta 21+87.13  
 $\Delta = 54' 16" 39.4" (RT)$   
 $D = 57' 17" 44.8"$   
 $L = 94.73'$   
 $T = 51.26'$   
 $R = 100.00'$

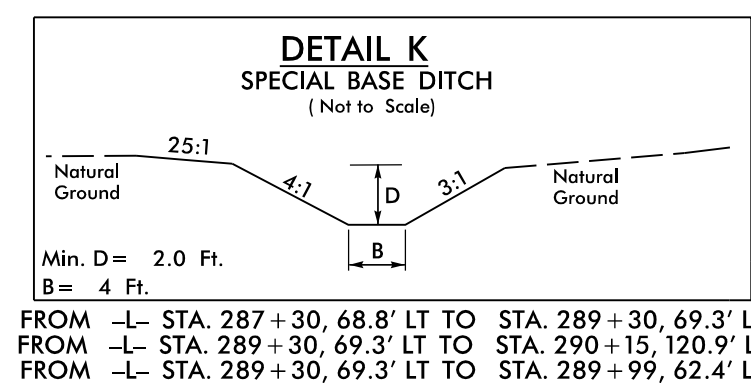
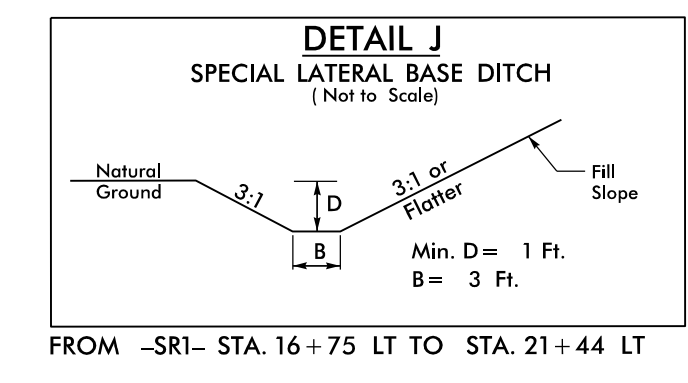
-L-  
 PI Sta 282+84.62  
 $\Delta = 10' 01" 11.8" (LT)$   
 $D = 0' 57" 17.7"$   
 $L = 1,049.29'$   
 $T = 525.98'$   
 $R = 6,000.00'$

-Y14-  
 PI Sta 12+20.24  
 $\Delta = 27' 47" 58.4" (LT)$   
 $D = 10' 48" 37.9"$   
 $L = 257.15'$   
 $T = 131.16'$   
 $R = 530.00'$



MATCHLINE  
-L- STA 287 + 50  
SEE SHEET 17

MATCHLINE -L- STA 301 + 50 SEE SHEET 19



NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 18

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

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

8/17/99  
8/14/2015  
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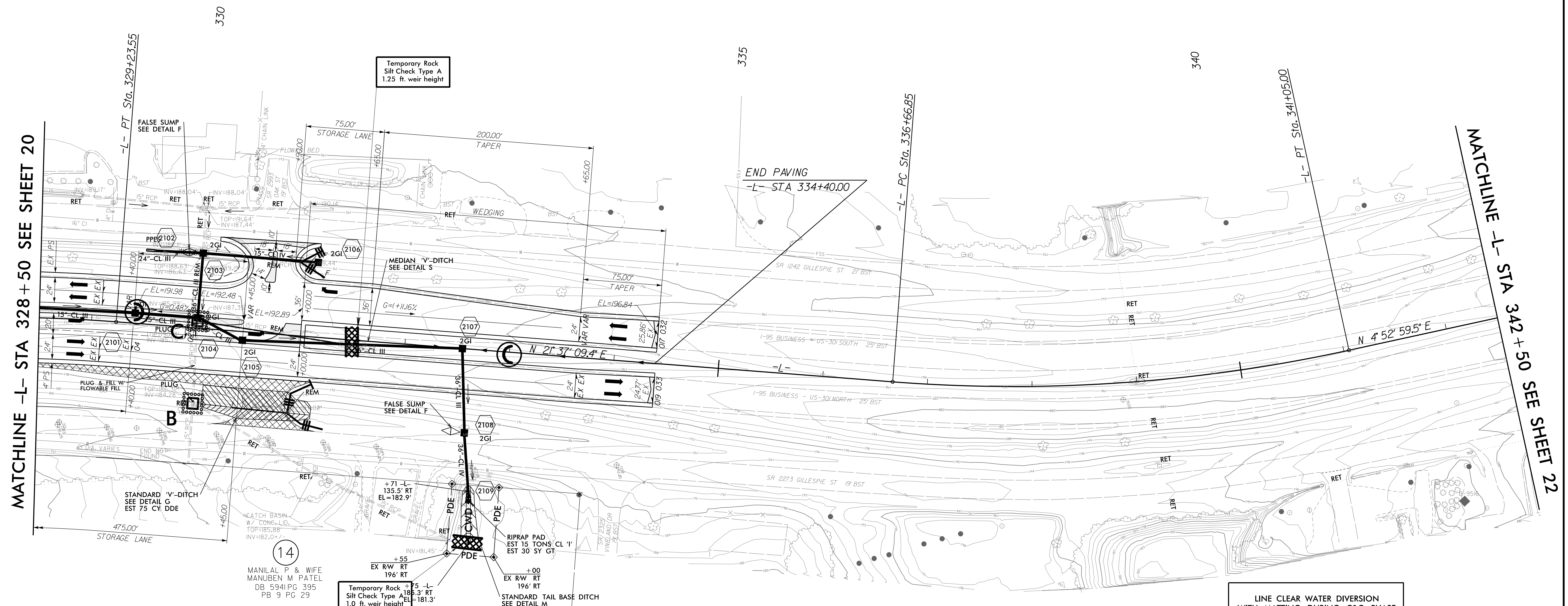
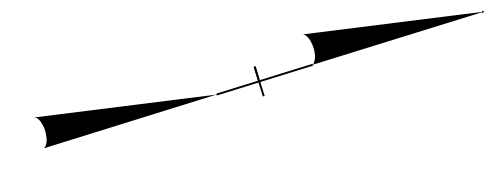




-L-  
 PI Sta 326+78.01  
 $\Delta = 18' 55' 53.1''$  (RT)  
 $D = 3' 49' 11.0''$   
 $L = 495.62'$   
 $T = 250.09'$   
 $R = 1,500.00'$

NOTE:  
 SILT FENCE AND COIR FIBER WATTLE BREAKS  
 SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

-L-  
 PI Sta 338+87.49  
 $\Delta = 16' 44' 09.9''$  (LT)  
 $D = 3' 49' 11.0''$   
 $L = 438.15'$   
 $T = 220.65'$   
 $R = 1,500.00'$



MATCHLINE -L- STA 328+50 SEE SHEET 20

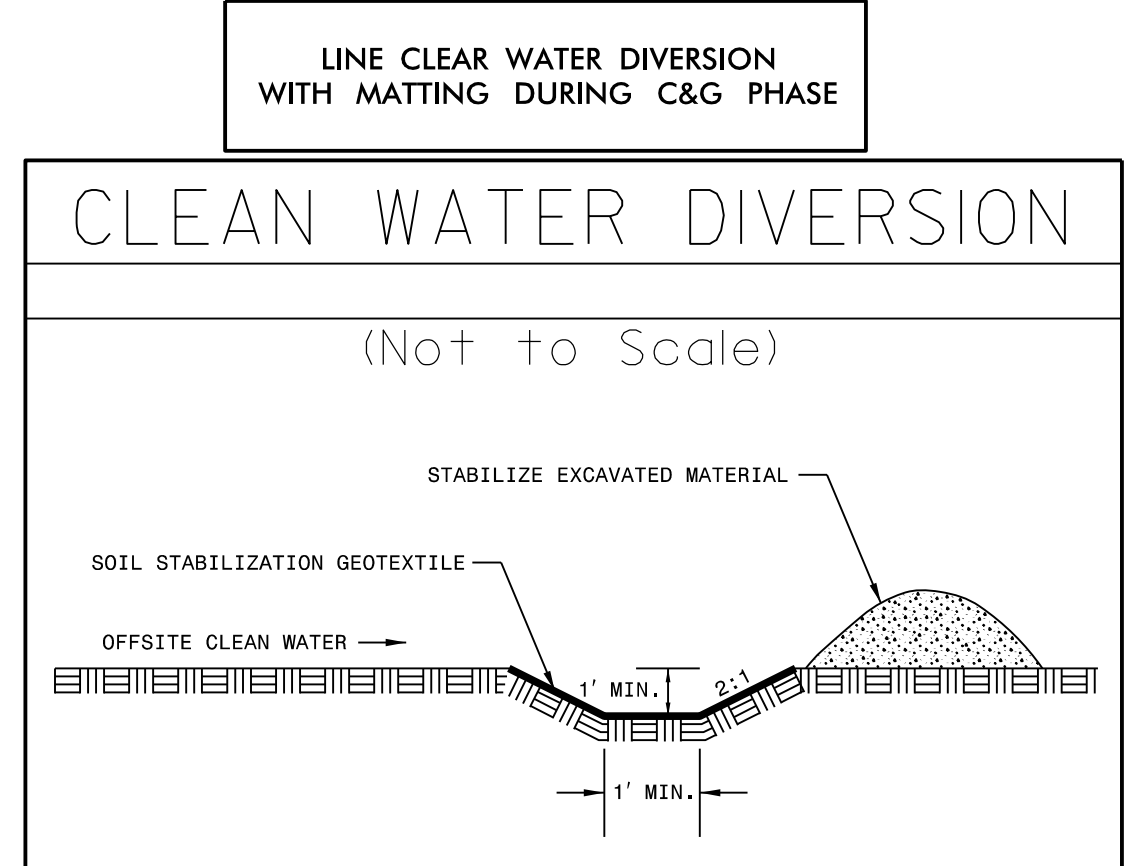
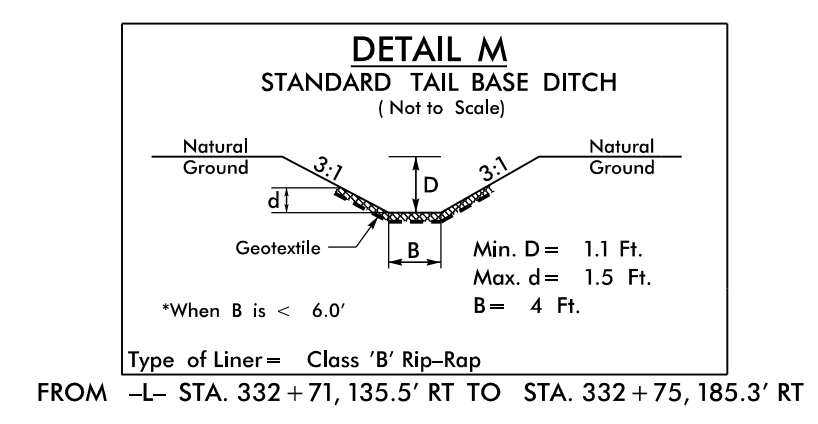
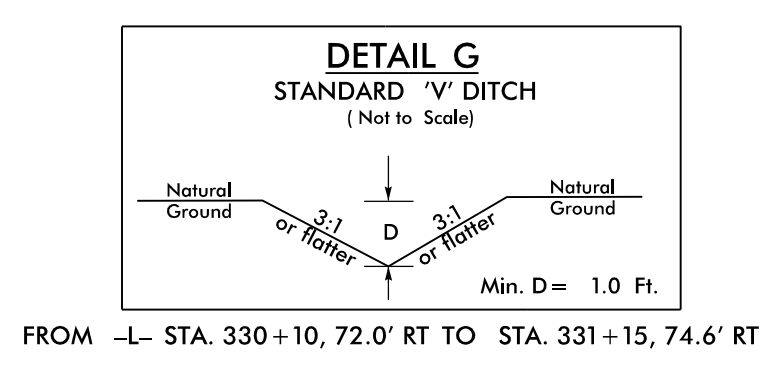
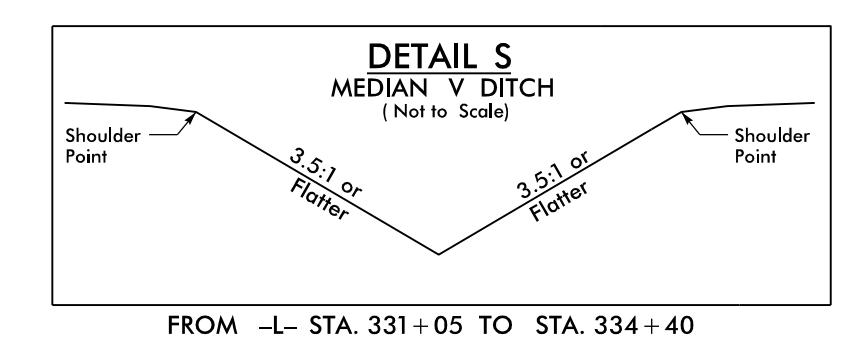
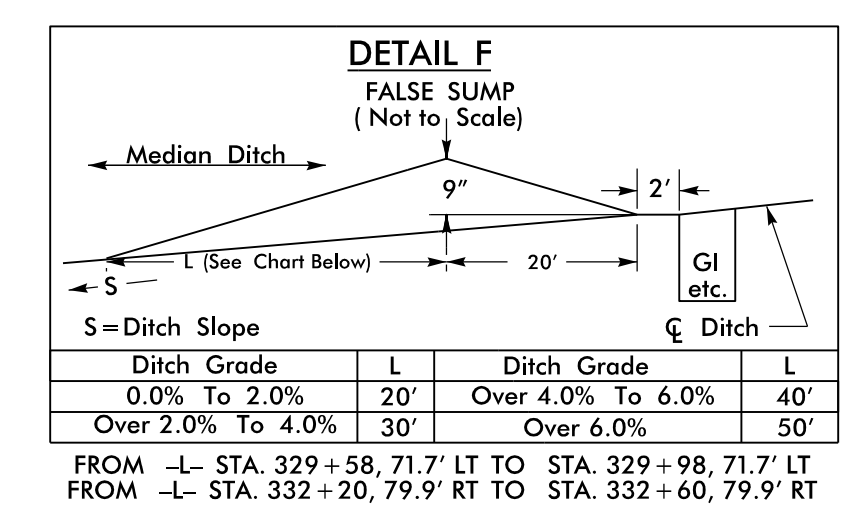
MATCHLINE -L- STA 342+50 SEE SHEET 22

CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 21

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

NOTE:  
 PERIMETER EROSION CONTROL MEASURES SHALL BE  
 INSTALLED DURING CLEARING AND GRUBBING PHASE.

Place Matting for Erosion Control in  
 Temporary Ditches and Diversions.



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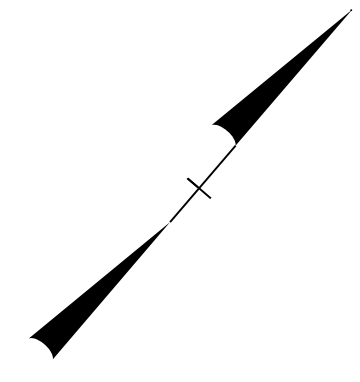












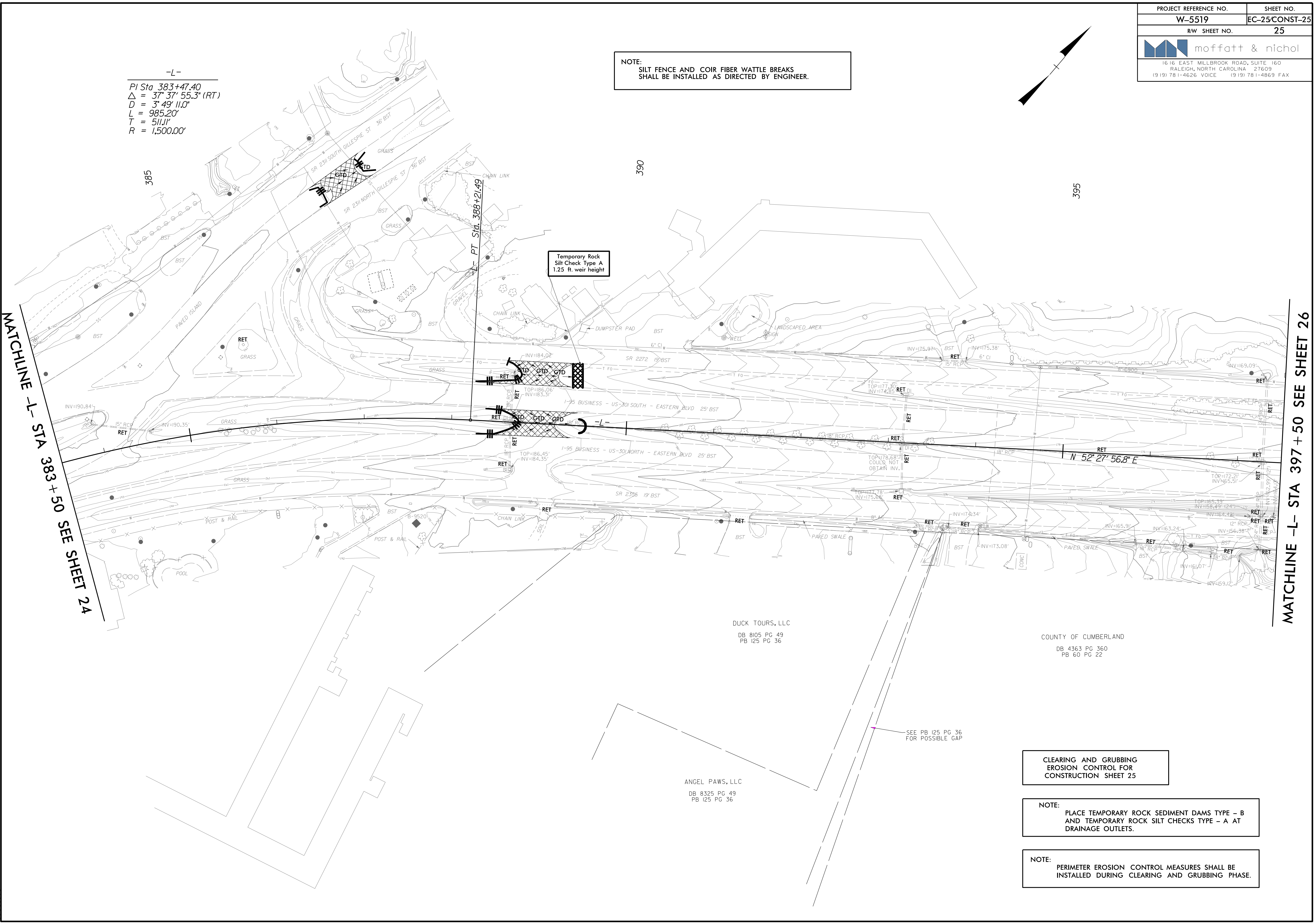
NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

-L-  
PI Sta 383+47.40  
Δ = 37° 37' 55.3" (RT)  
D = 3° 49' 11.0"  
L = 985.20'  
T = 511.11'  
R = 1,500.00'

Temporary Rock  
Silt Check Type A  
1.25 ft. weir height

MATCHLINE -L- STA 383+50 SEE SHEET 24

MATCHLINE -L- STA 397+50 SEE SHEET 26



DUCK TOURS, LLC  
DB 8105 PG 49  
PB 125 PG 36

COUNTY OF CUMBERLAND  
DB 4363 PG 360  
PB 60 PG 22

ANGEL PAWS, LLC  
DB 8325 PG 49  
PB 125 PG 36

SEE PB 125 PG 36  
FOR POSSIBLE GAP

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 25

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

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.

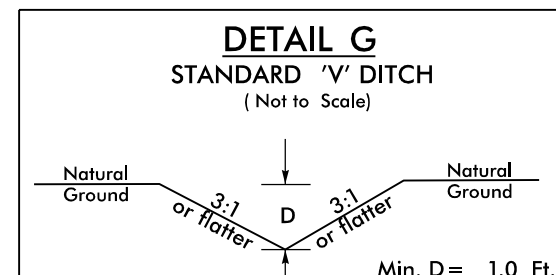
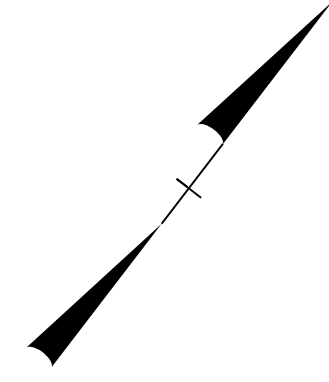


CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 26

NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

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

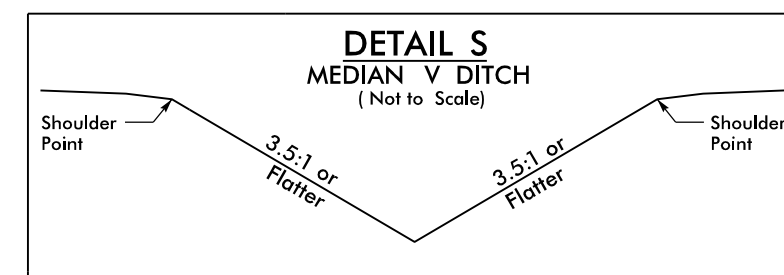
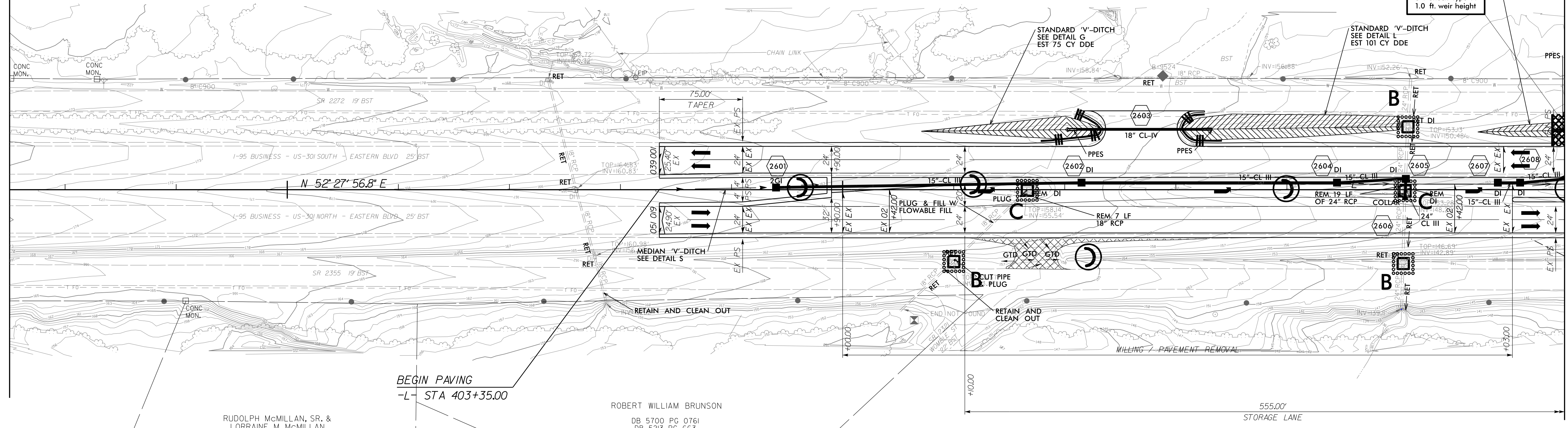
NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.



FROM -L- STA. 405+71.52.5' LT TO STA. 407+02.54.1' LT  
 FROM -L- STA. 408+33.54.6' LT TO STA. 410+03.56.7' LT  
 FROM -L- STA. 410+72.52.0' LT TO STA. 411+39.53.2' LT

MATCHLINE -L- STA 397+50 SEE SHEET 25

MATCHLINE -L- STA 411+50 SEE SHEET 27



FROM -L- STA. 403+35 TO STA. 404+90

8/17/99

9/4/2015  
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Local User

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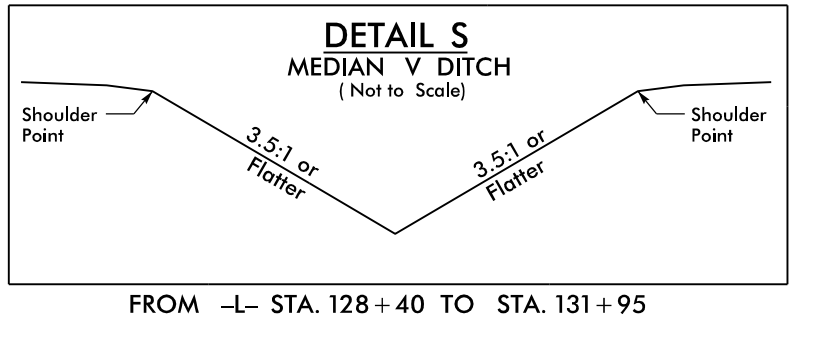
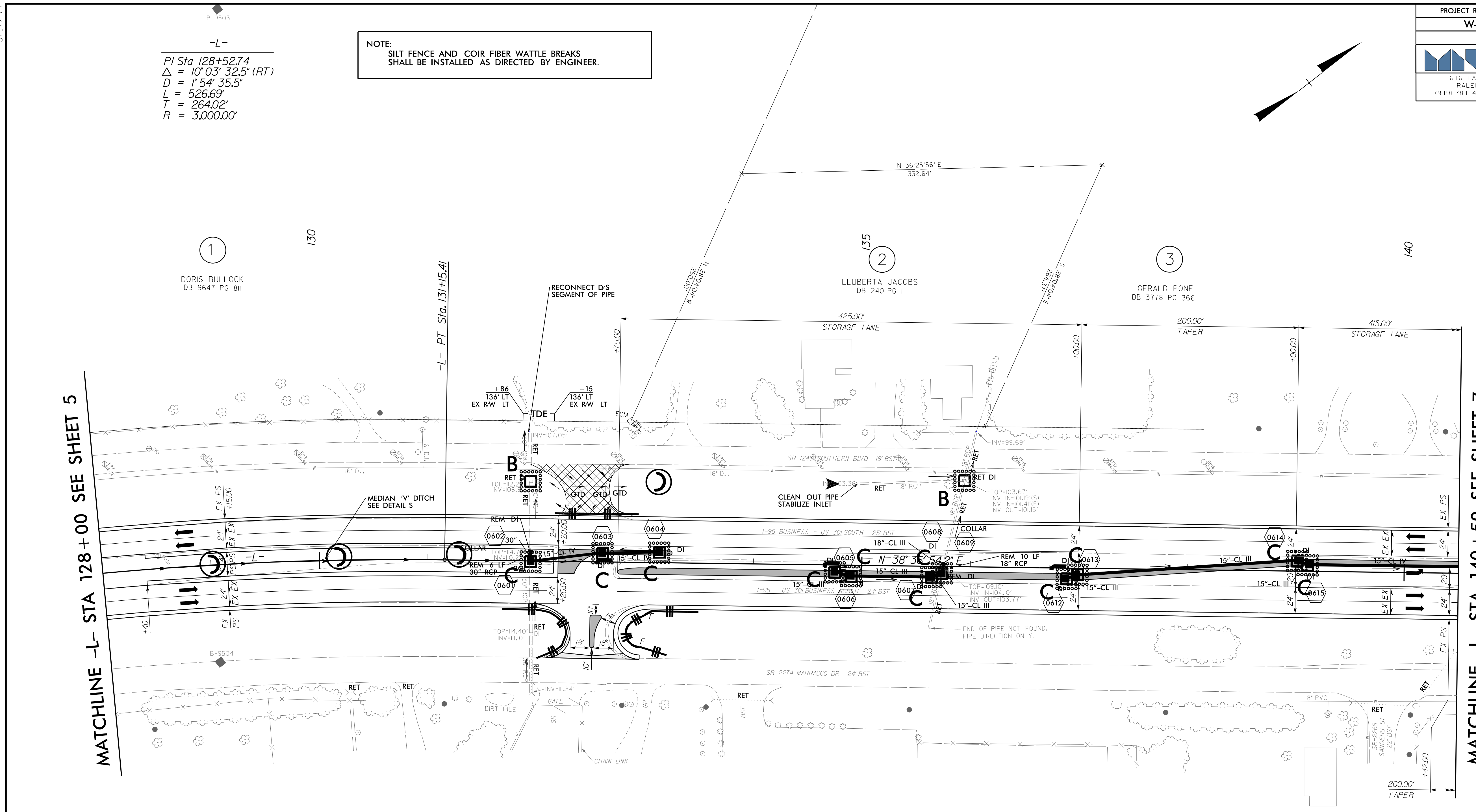


-L-  
 PI Sta 128+52.74  
 $\Delta = 10^{\circ}03'32.5''$  (RT)  
 $D = 154'35.5''$   
 $L = 526.69'$   
 $T = 264.02'$   
 $R = 3,000.00'$

NOTE:  
 SILT FENCE AND COIR FIBER WATTLE BREAKS  
 SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

MATCHLINE -L- STA 128+00 SEE SHEET 5

MATCHLINE -L- STA 140+50 SEE SHEET 7

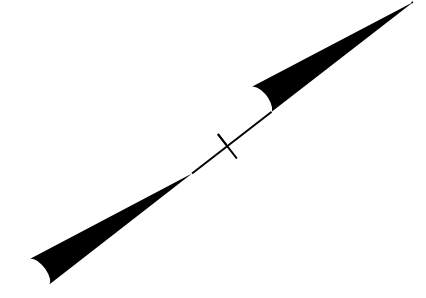


INSTALL MATTING FOR  
 EROSION CONTROL IN THE  
 PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet  
 Install Matting for Erosion Control on  
 Entire Slope as Work Allows.

8/17/99  
 8/29/2015  
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 LUCAS



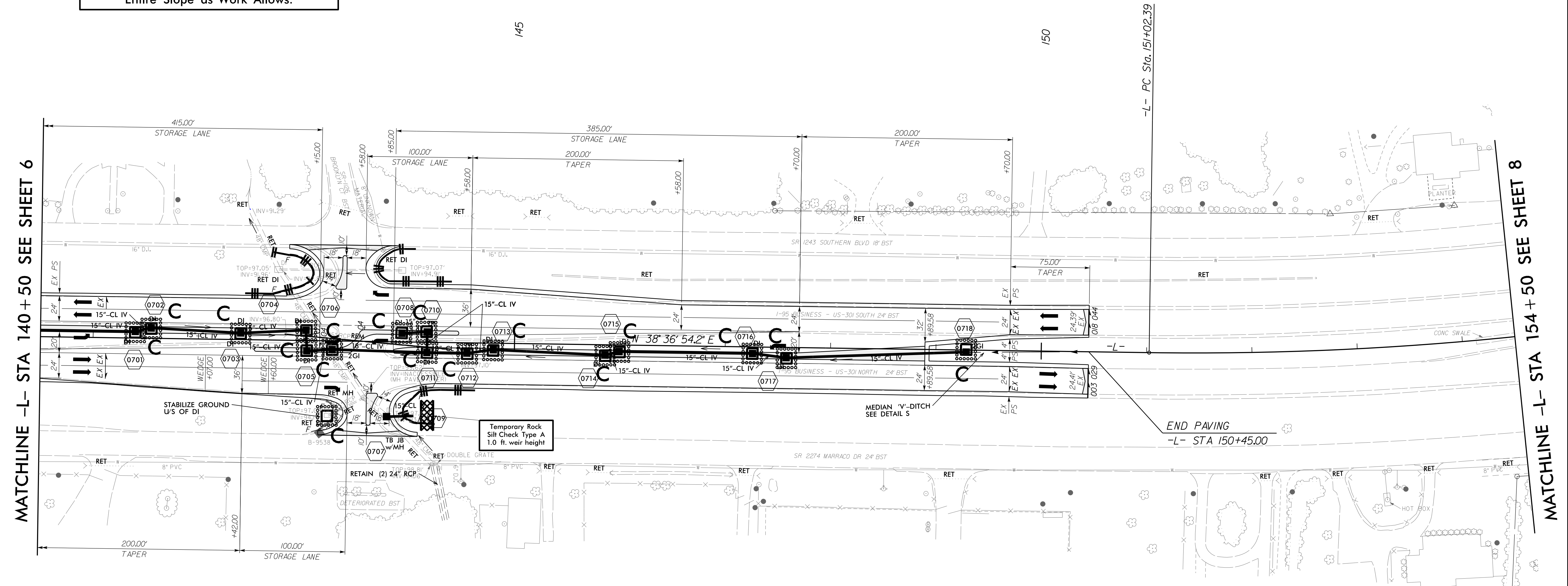


-L-  
 PI Sta 155+39.37  
 $\Delta = 16^{\circ} 34' 29.7''$  (LT)  
 $D = 1^{\circ} 54' 35.5''$   
 $L = 867.86'$   
 $T = 436.98'$   
 $R = 3,000.00'$

NOTE:  
 SILT FENCE AND COIR FIBER WATTLE BREAKS  
 SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

INSTALL MATTING FOR  
 EROSION CONTROL IN THE  
 PROPOSED DITCH LINE.

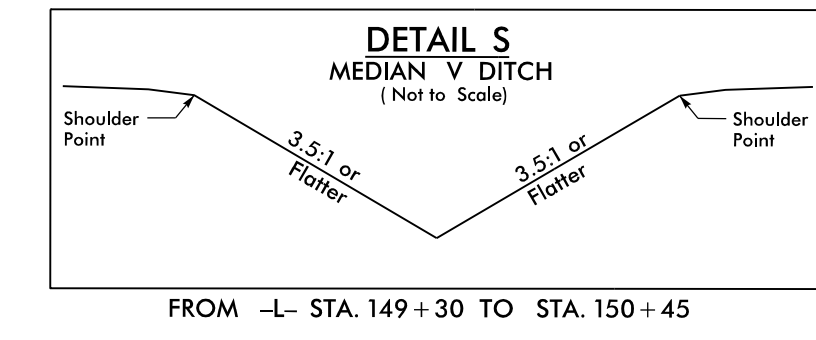
For Slopes Excavated Greater Than 10 feet  
 Install Matting for Erosion Control on  
 Entire Slope as Work Allows.



MATCHLINE -L- STA 140+50 SEE SHEET 6

MATCHLINE -L- STA 154+50 SEE SHEET 8

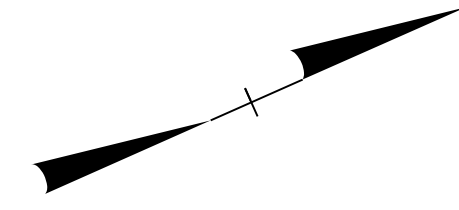
END PAVING  
 -L- STA 150+45.00



8/17/99

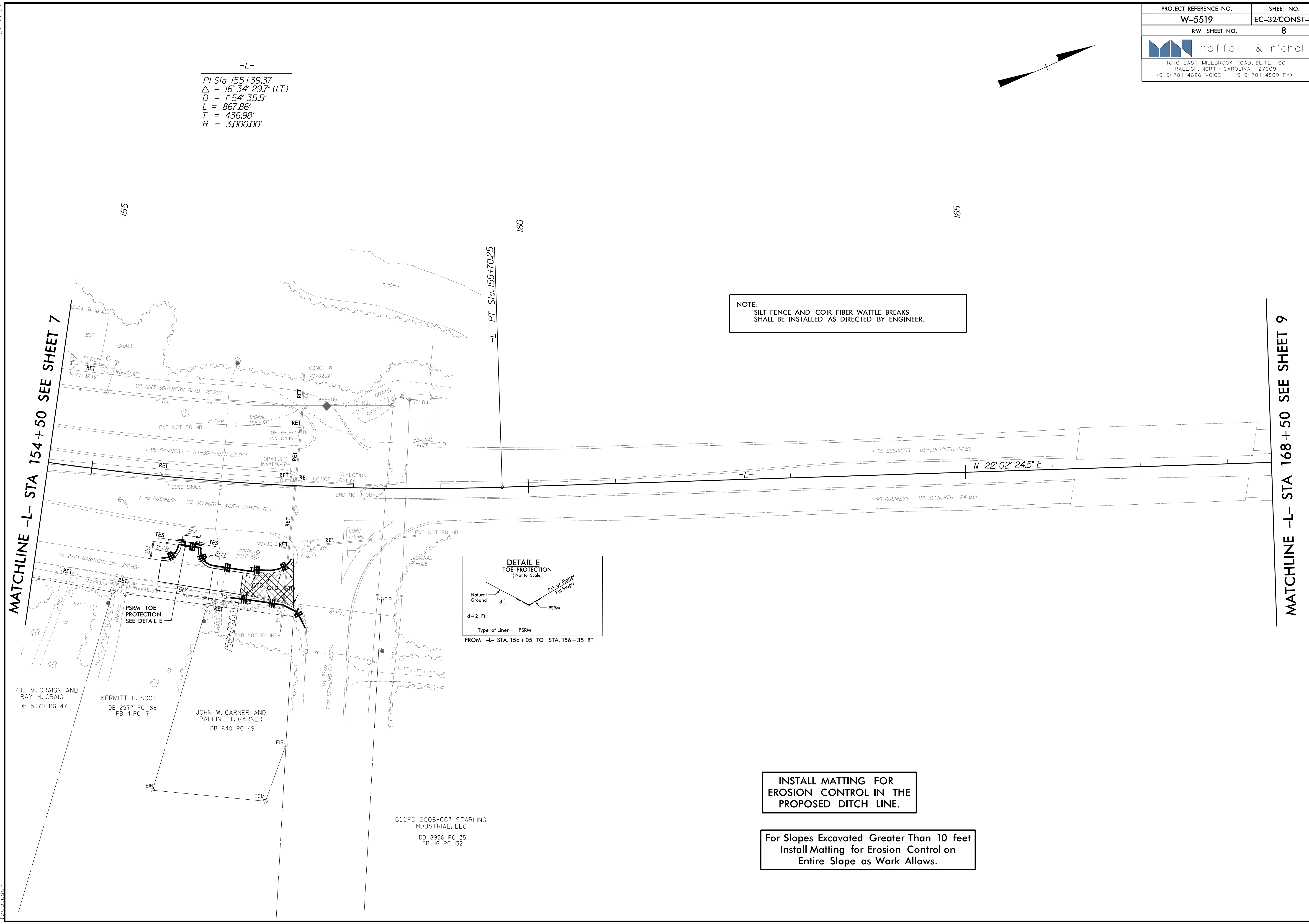
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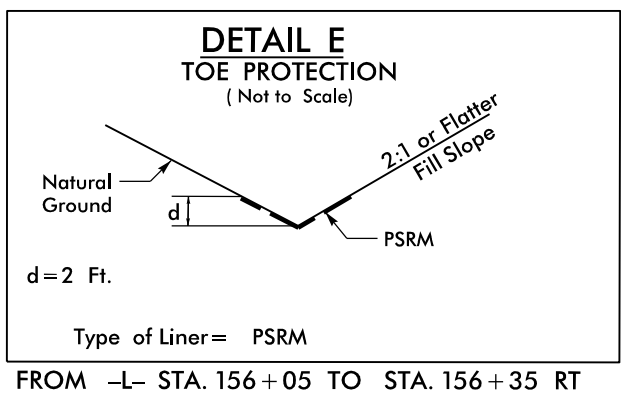


-L-  
PI Sta 155+39.37  
 $\Delta = 16^{\circ} 34' 29.7''$  (LT)  
 $D = 1^{\circ} 54' 35.5''$   
 $L = 867.86'$   
 $T = 436.98'$   
 $R = 3,000.00'$

8/17/99  
8/14/2015  
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locuser



**NOTE:**  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.



**INSTALL MATTING FOR  
EROSION CONTROL IN THE  
PROPOSED DITCH LINE.**

**For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.**


**MATCHLINE -L- STA 154+50 SEE SHEET 7**

**MATCHLINE -L- STA 168+50 SEE SHEET 9**

GCCFC 2006-GG7 STARLING  
INDUSTRIAL, LLC  
DB 8956 PG 35  
PB 16 PG 132

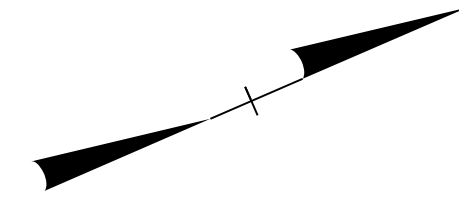


8/17/99

PROJECT REFERENCE NO.	SHEET NO.
W-5519	EC-33/CONST-9
RW SHEET NO.	9
 <b>moffatt &amp; nichol</b>	
<small>1616 EAST MILLBROOK ROAD, SUITE 160  RALEIGH, NORTH CAROLINA 27609  (919) 781-4626 VOICE (919) 781-4869 FAX</small>	

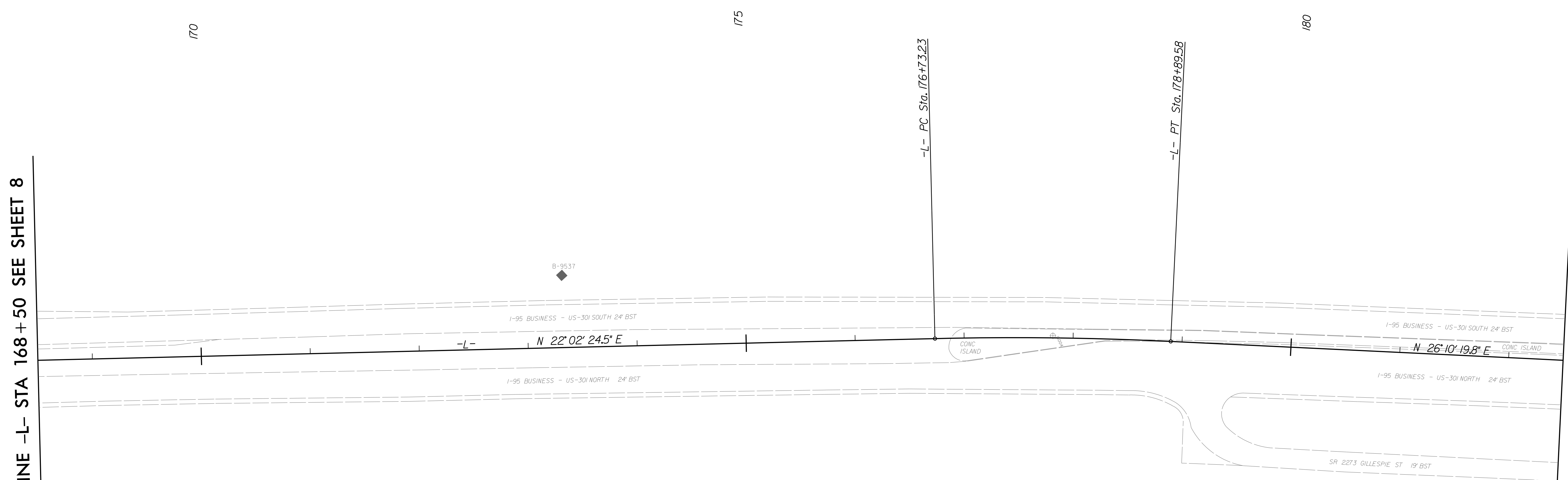
NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

-L-  
PI Sta 177+81.45  
 $\Delta = 4^{\circ} 07' 55.3''$  (RT)  
D = 1' 54' 35.5"  
L = 216.35'  
T = 108.22'  
R = 3,000.00'



MATCHLINE -L- STA 168+50 SEE SHEET 8

MATCHLINE -L- STA 182+50 SEE SHEET 10




INSTALL MATTING FOR  
EROSION CONTROL IN THE  
PROPOSED DITCH LINE.

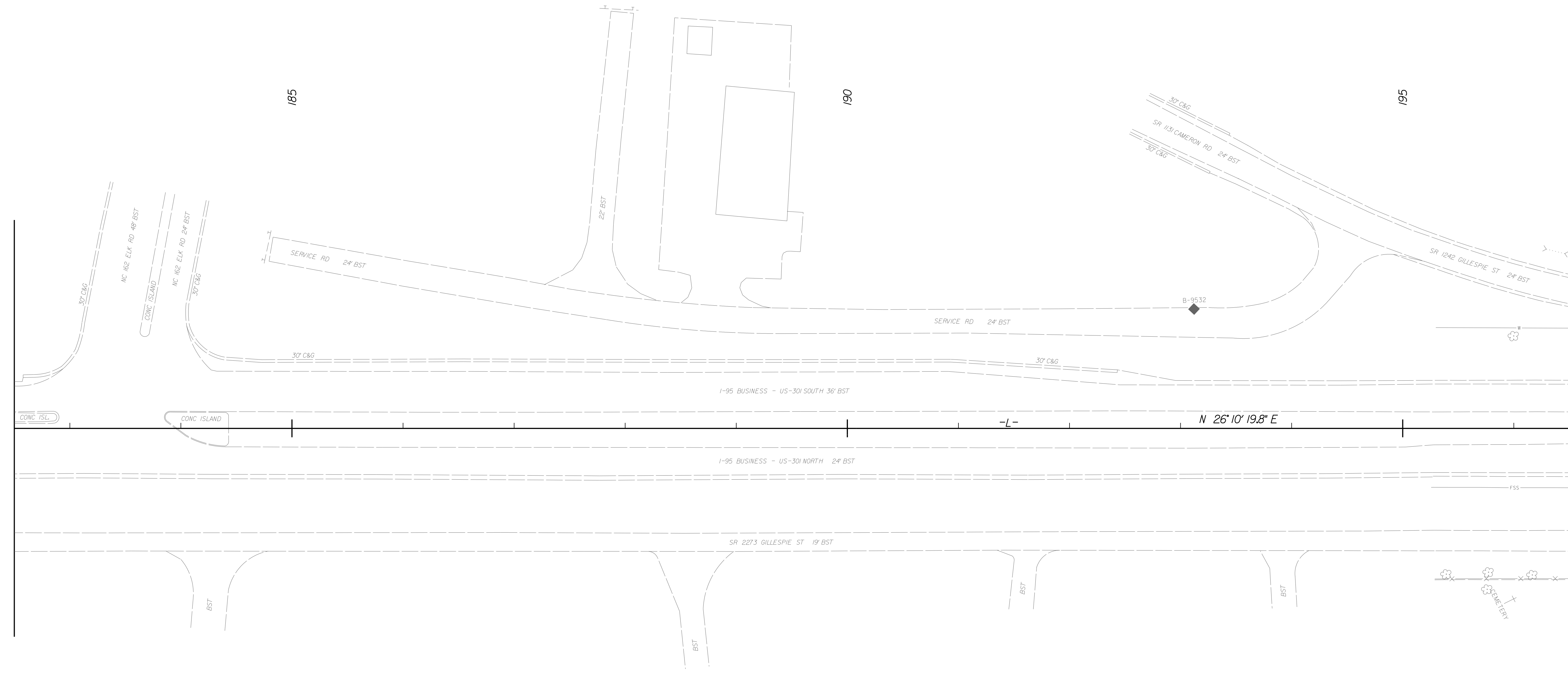
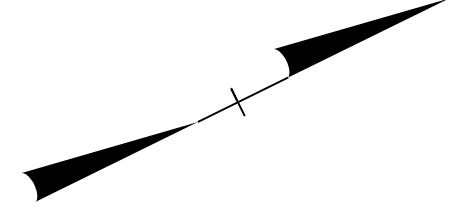
For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.

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PROJECT REFERENCE NO.	SHEET NO.
W-5519	EC-34/CONST-10
RW SHEET NO.	10
 <b>moffatt &amp; nichol</b>	
<small>1616 EAST MILLBROOK ROAD, SUITE 160  RALEIGH, NORTH CAROLINA 27609  (919) 781-4626 VOICE (919) 781-4869 FAX</small>	

NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.



INSTALL MATTING FOR  
EROSION CONTROL IN THE  
PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.

MATCHLINE -L- STA 196+50 SEE SHEET 11

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localuser

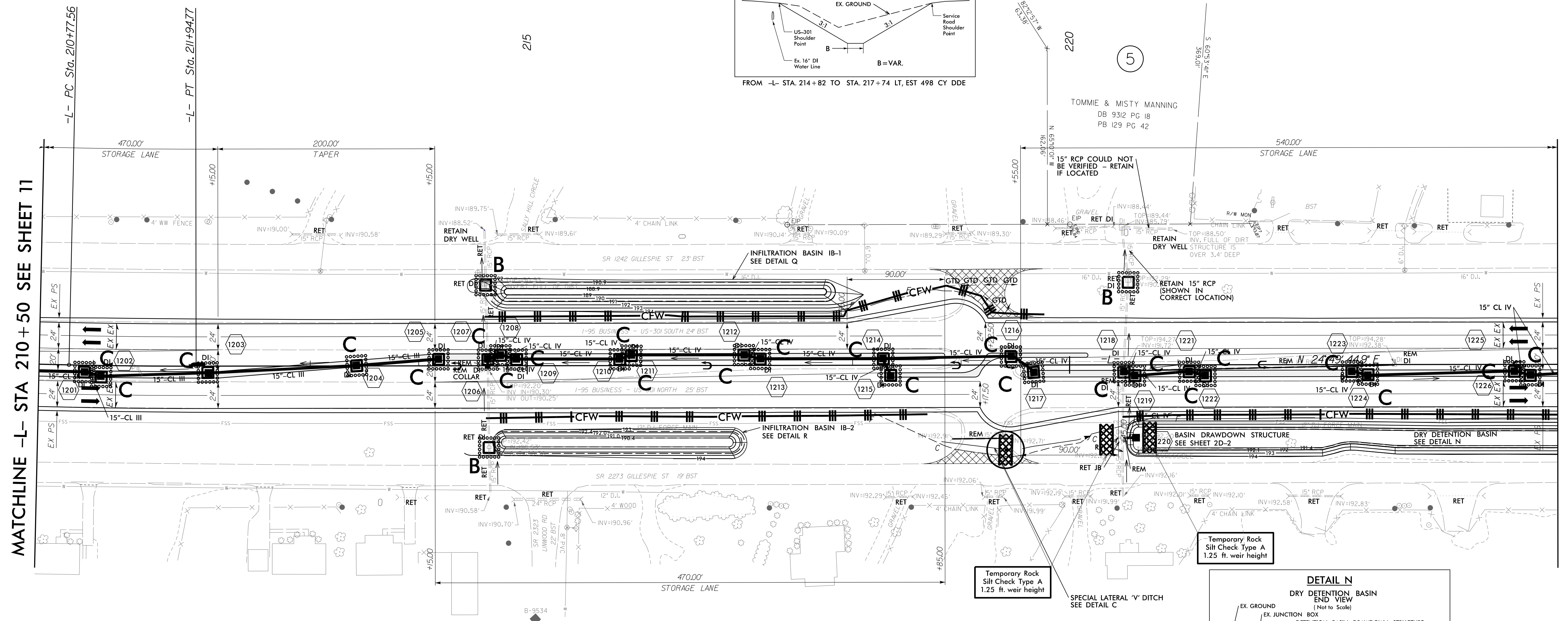
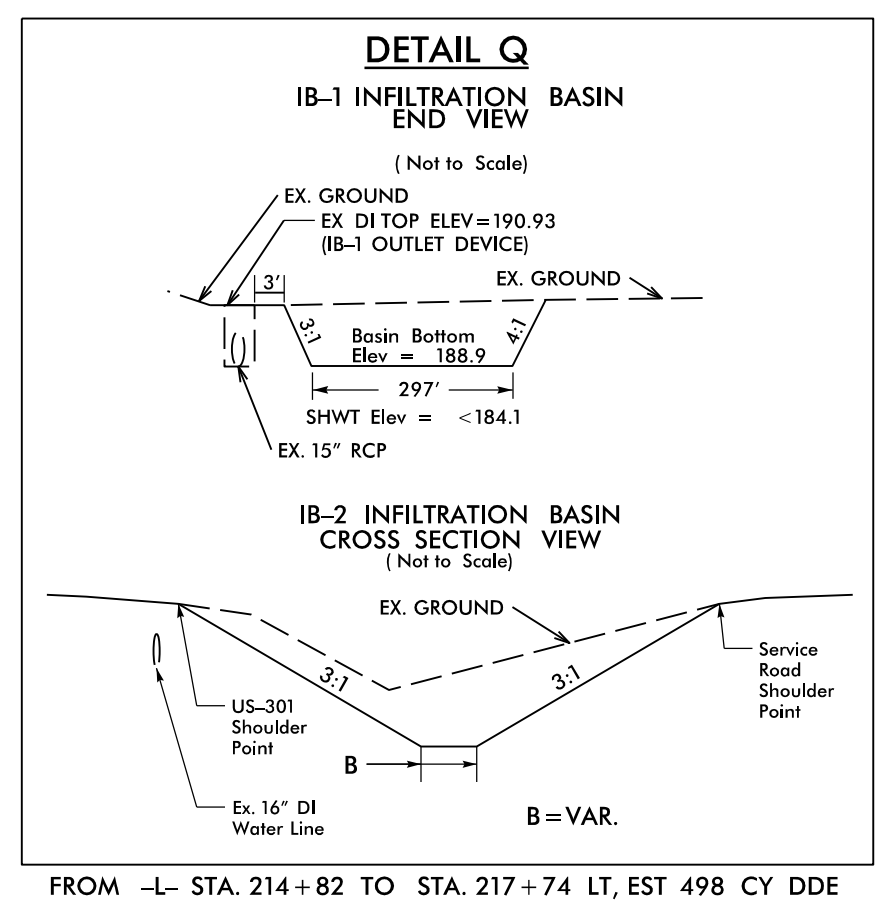






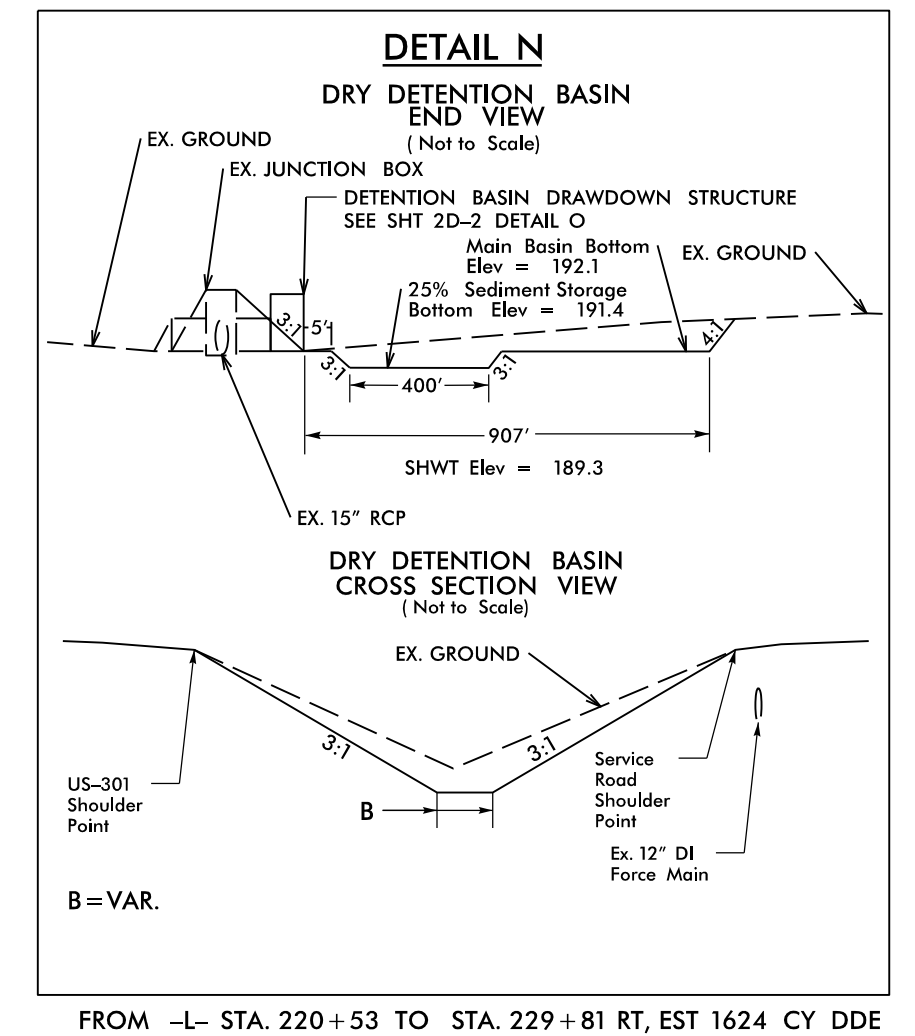
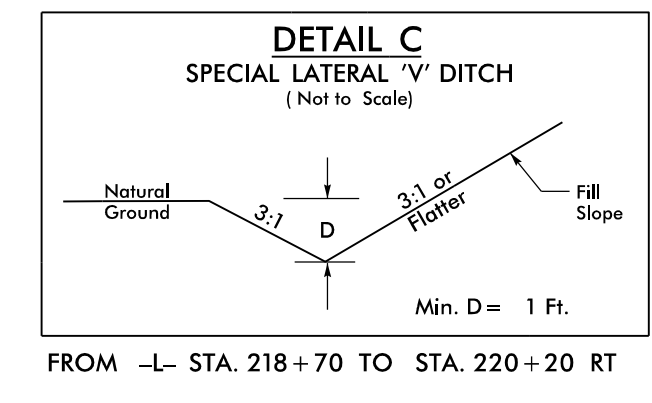
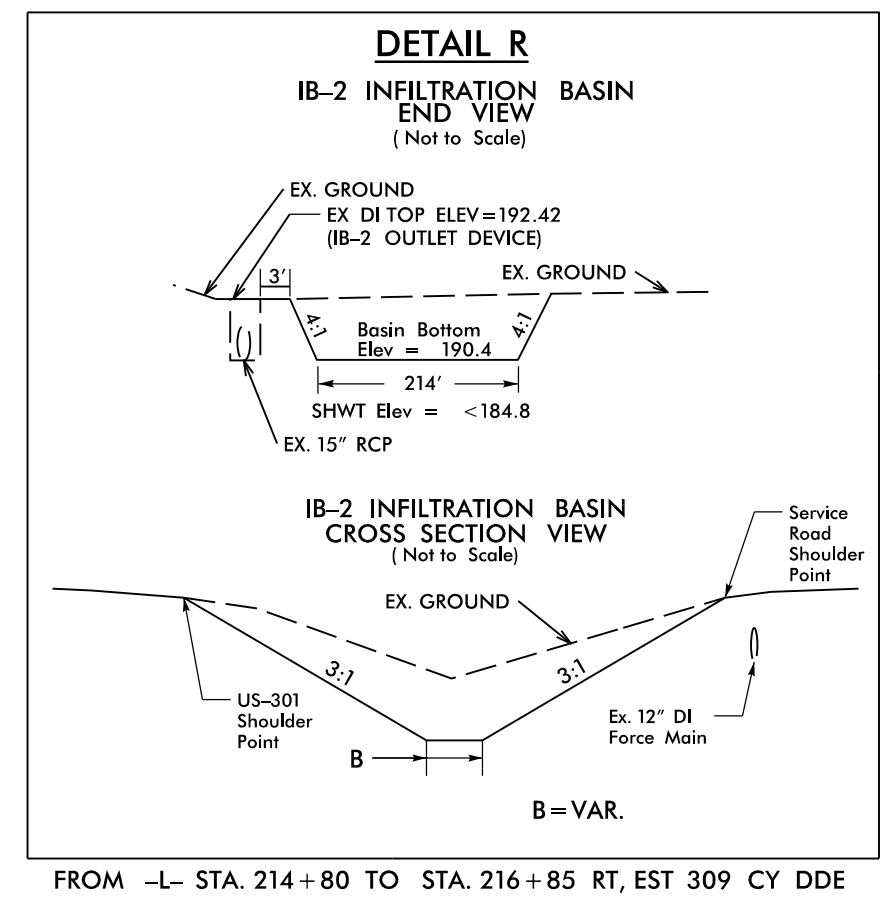
-L-  
 PI Sta 211+36.17  
 $\Delta = 1' 20'' 34.9'' (LT)$   
 $D = 1' 08'' 45.3''$   
 $L = 117.20'$   
 $T = 58.60'$   
 $R = 5,000.00'$

NOTE:  
 SILT FENCE AND COIR FIBER WATTLE BREAKS  
 SHALL BE INSTALLED AS DIRECTED BY ENGINEER.



MATCHLINE -L- STA 210+50 SEE SHEET 11

MATCHLINE -L- STA 224+50 SEE SHEET 13



INSTALL MATTING FOR  
 EROSION CONTROL IN THE  
 PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet  
 Install Matting for Erosion Control on  
 Entire Slope as Work Allows.

All Upgradient Areas Must be Stabilized  
 and Infiltration and Dry Detention Basins Must be  
 Cleaned Out and Returned to Design State  
 Before Erosion Control Devices are Removed.

SEE SHEET 2D-1 FOR PROPOSED CURB ELEVATION TABLE

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INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

All Upgradient Areas Must be Stabilized and Infiltration and Dry Detention Basins Must be Cleaned Out and Returned to Design State Before Erosion Control Devices are Removed.

NOTE: SILT FENCE AND COIR FIBER WATTLE BREAKS SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

-L-

$$PI\ Sta. 229+66.62$$

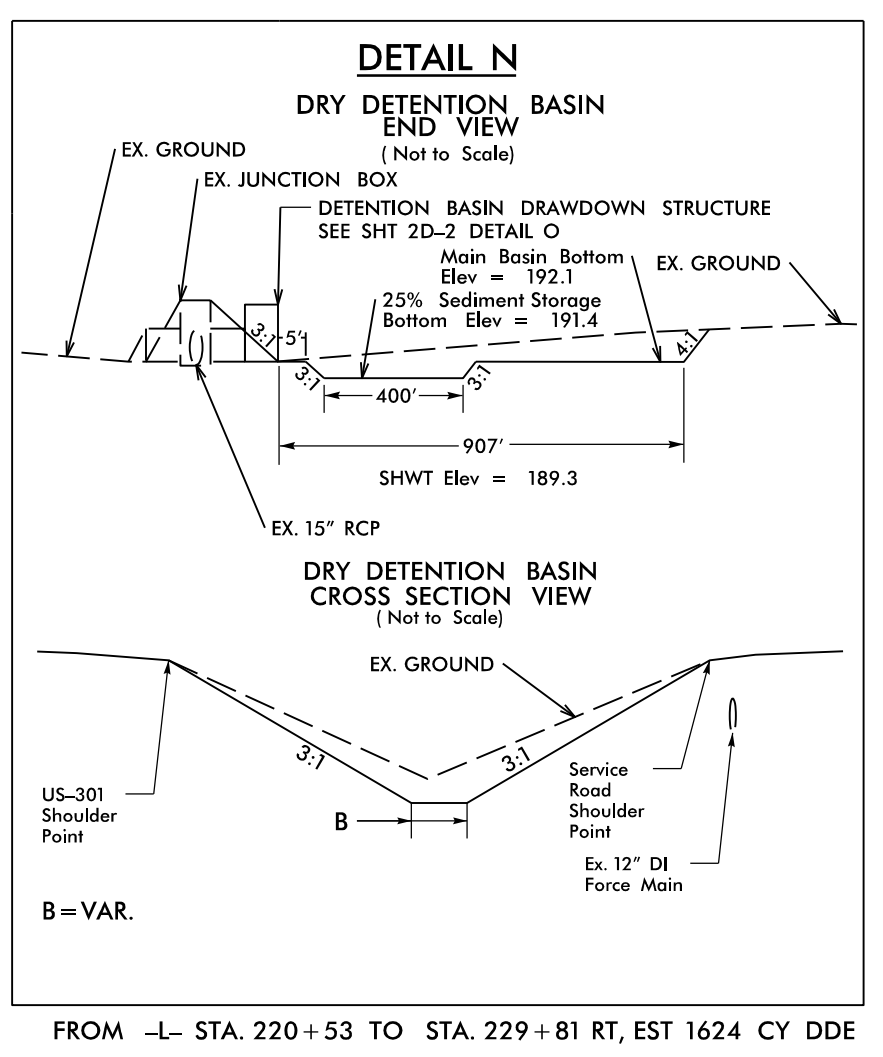
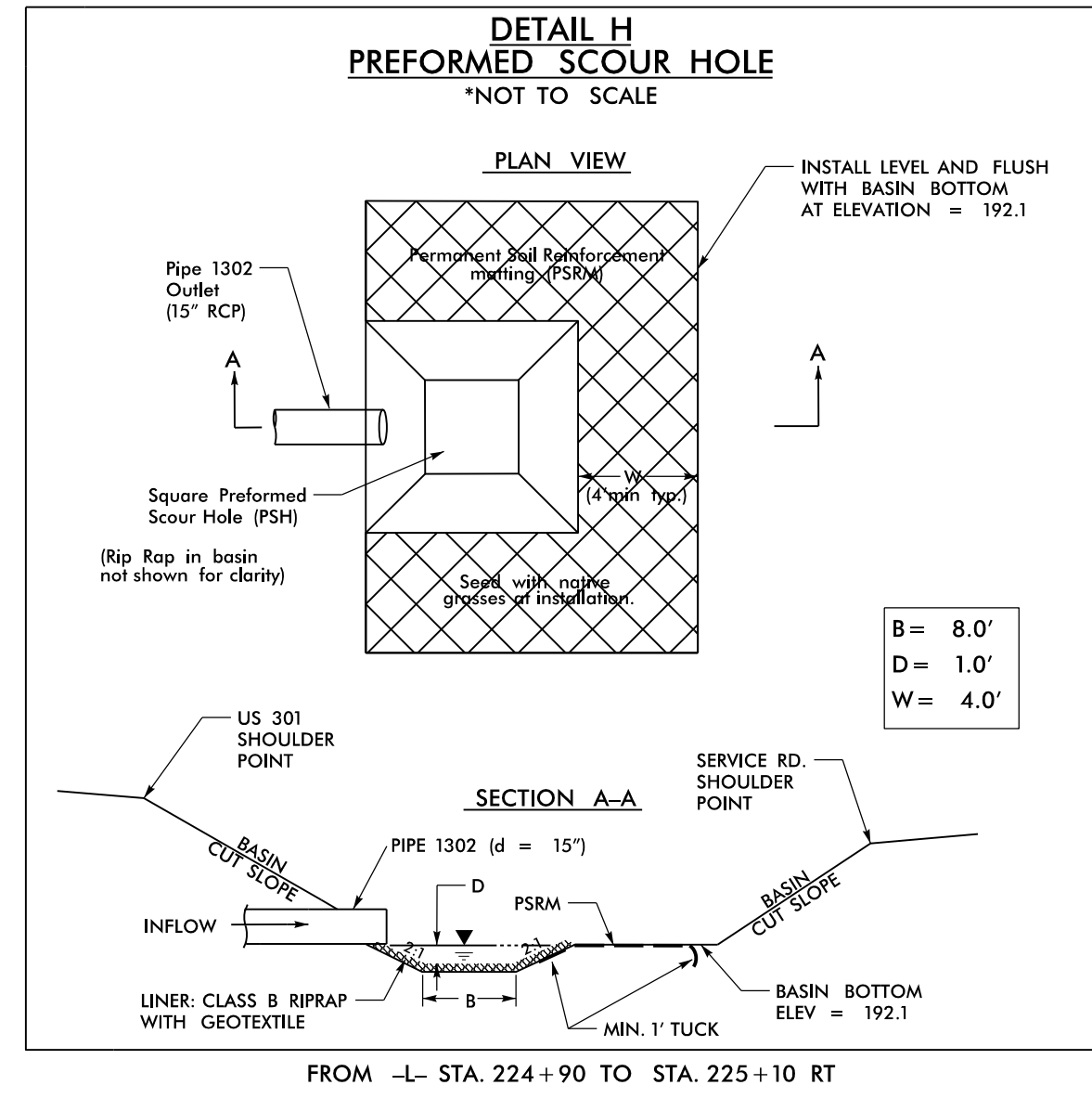
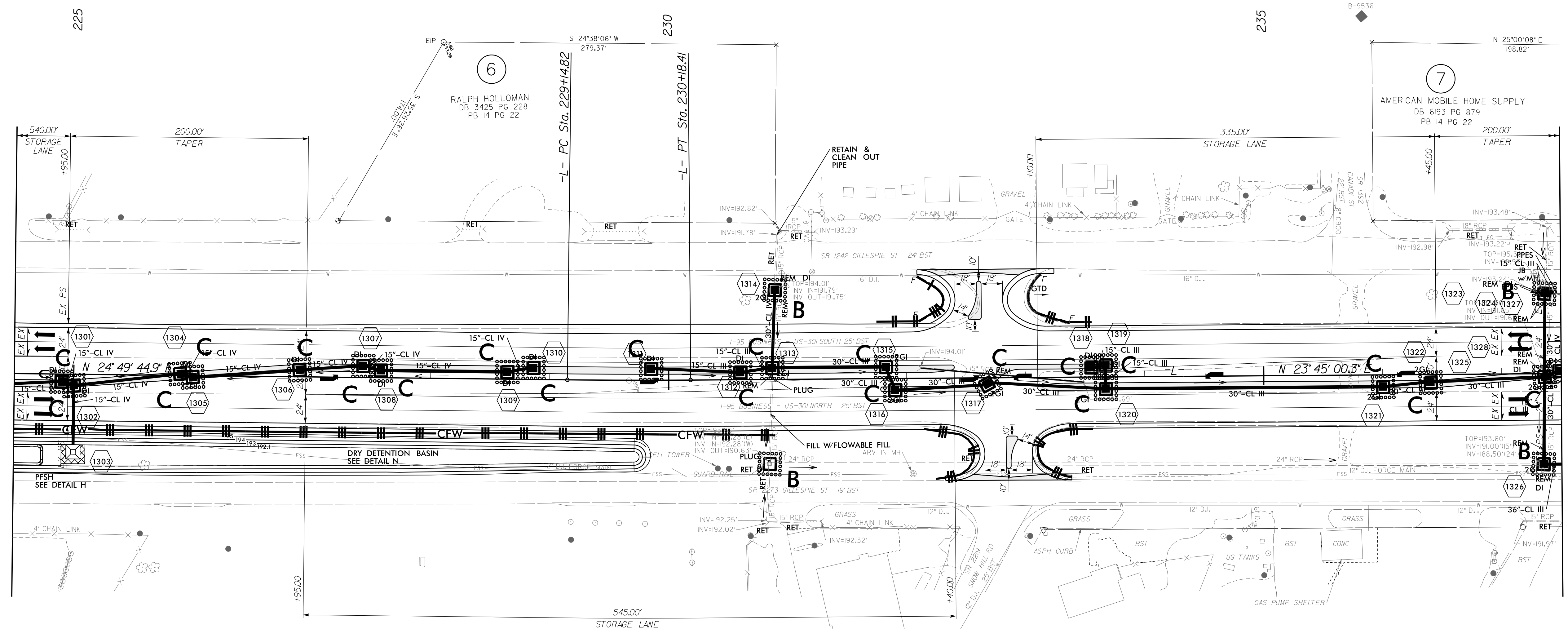
$$\Delta = 1^{\circ}04'44.6" (LT)$$

$$D = 1^{\circ}02'30.3"$$

$$L = 103.58'$$

$$T = 51.79'$$

$$R = 5,500.00'$$

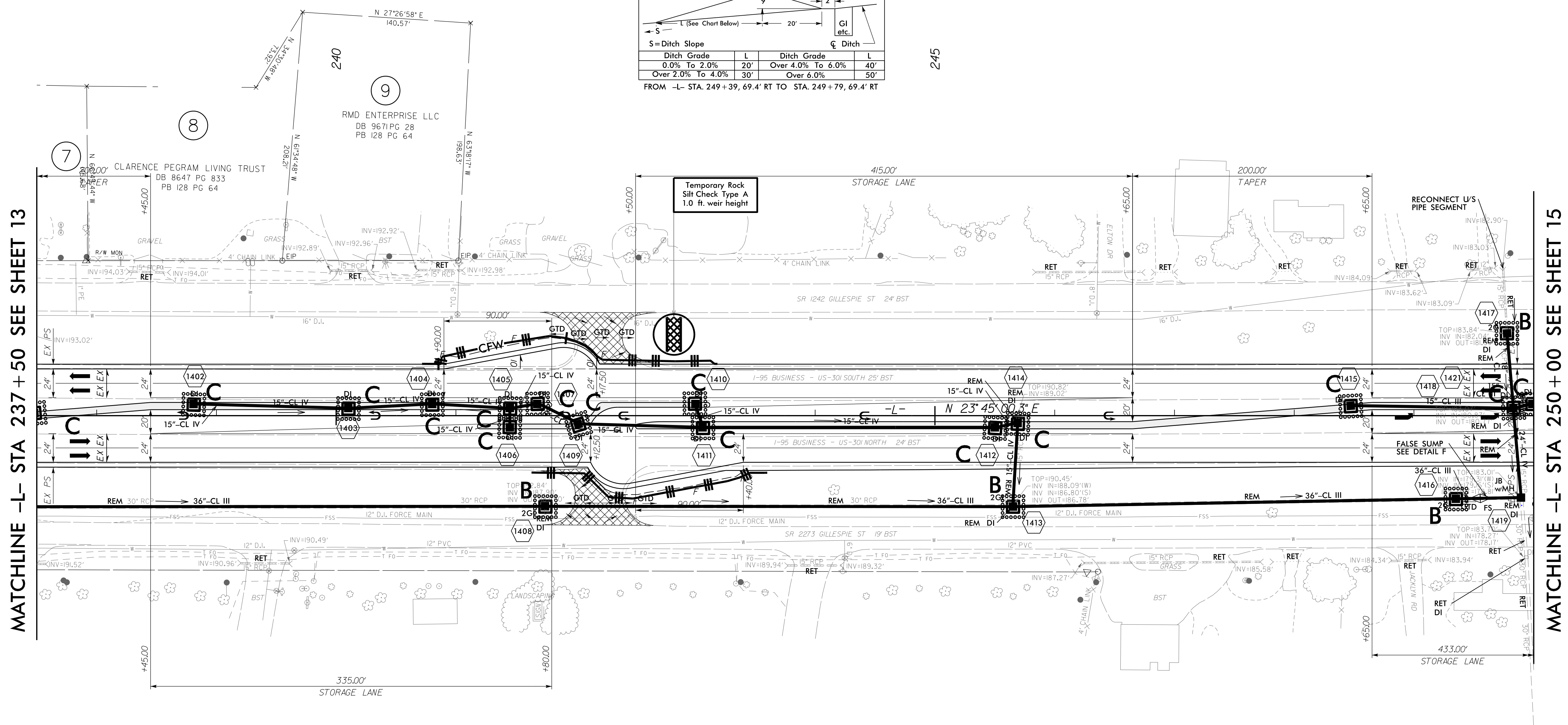
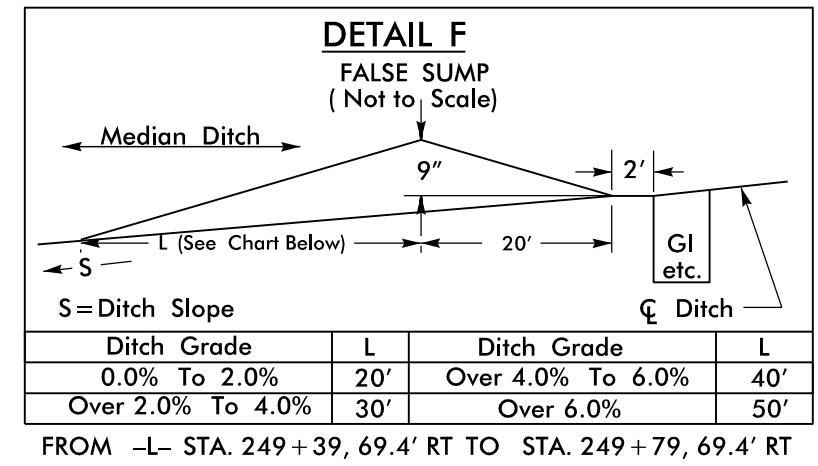
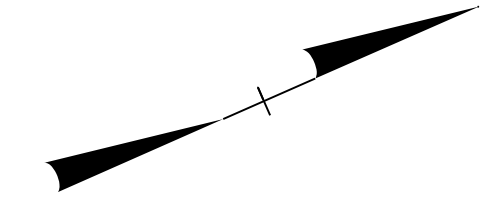


MATCHLINE -L- STA 237+50 SEE SHEET 14

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**NOTE:**  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.



MATCHLINE -L- STA 237 + 50 SEE SHEET 13

MATCHLINE -L- STA 250 + 00 SEE SHEET 15

INSTALL MATTING FOR  
EROSION CONTROL IN THE  
PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.

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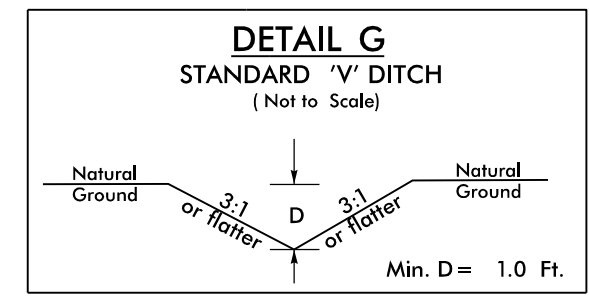
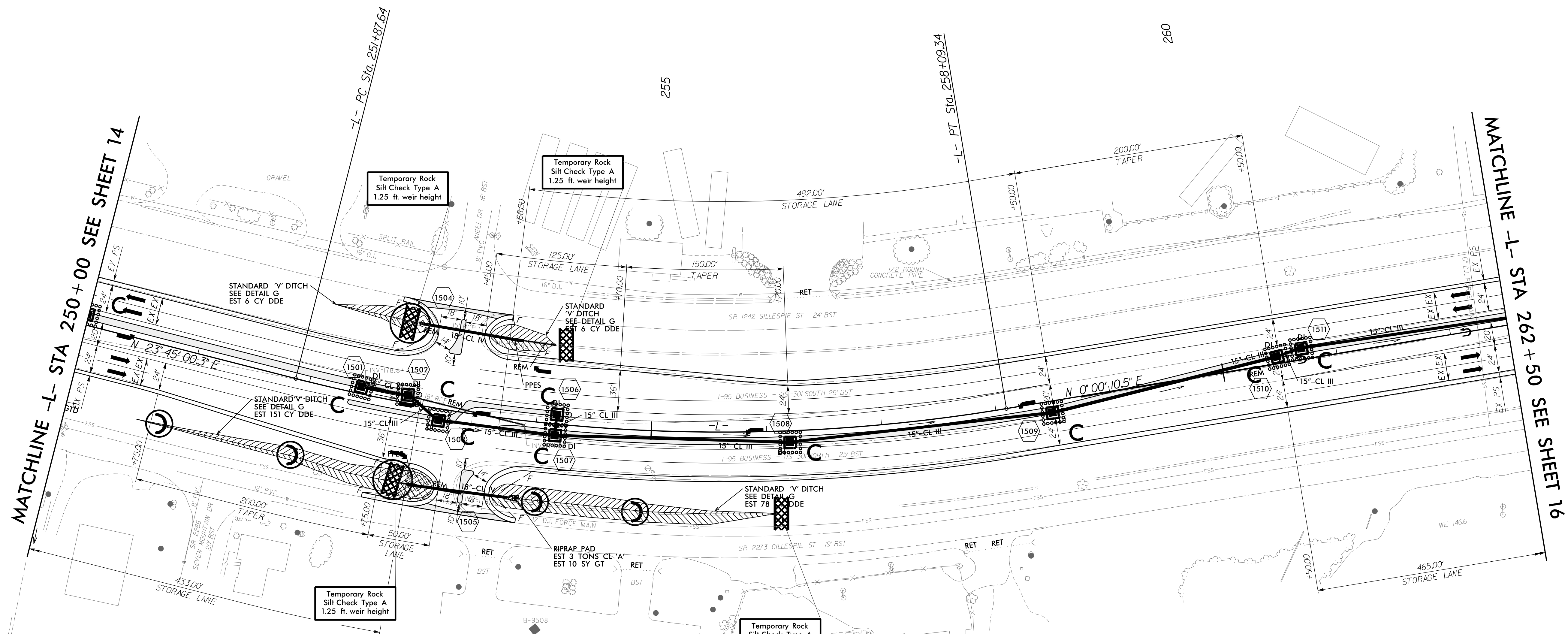


-L-  
 PI Sta 255+03.01  
 $\Delta = 23^{\circ} 44' 49.8''$  (LT)  
 $D = 3^{\circ} 49' 11.0''$   
 $L = 621.70'$   
 $T = 315.38'$   
 $R = 1,500.00'$

INSTALL MATTING FOR  
 EROSION CONTROL IN THE  
 PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet  
 Install Matting for Erosion Control on  
 Entire Slope as Work Allows.

NOTE:  
 SILT FENCE AND COIR FIBER WATTLE BREAKS  
 SHALL BE INSTALLED AS DIRECTED BY ENGINEER.



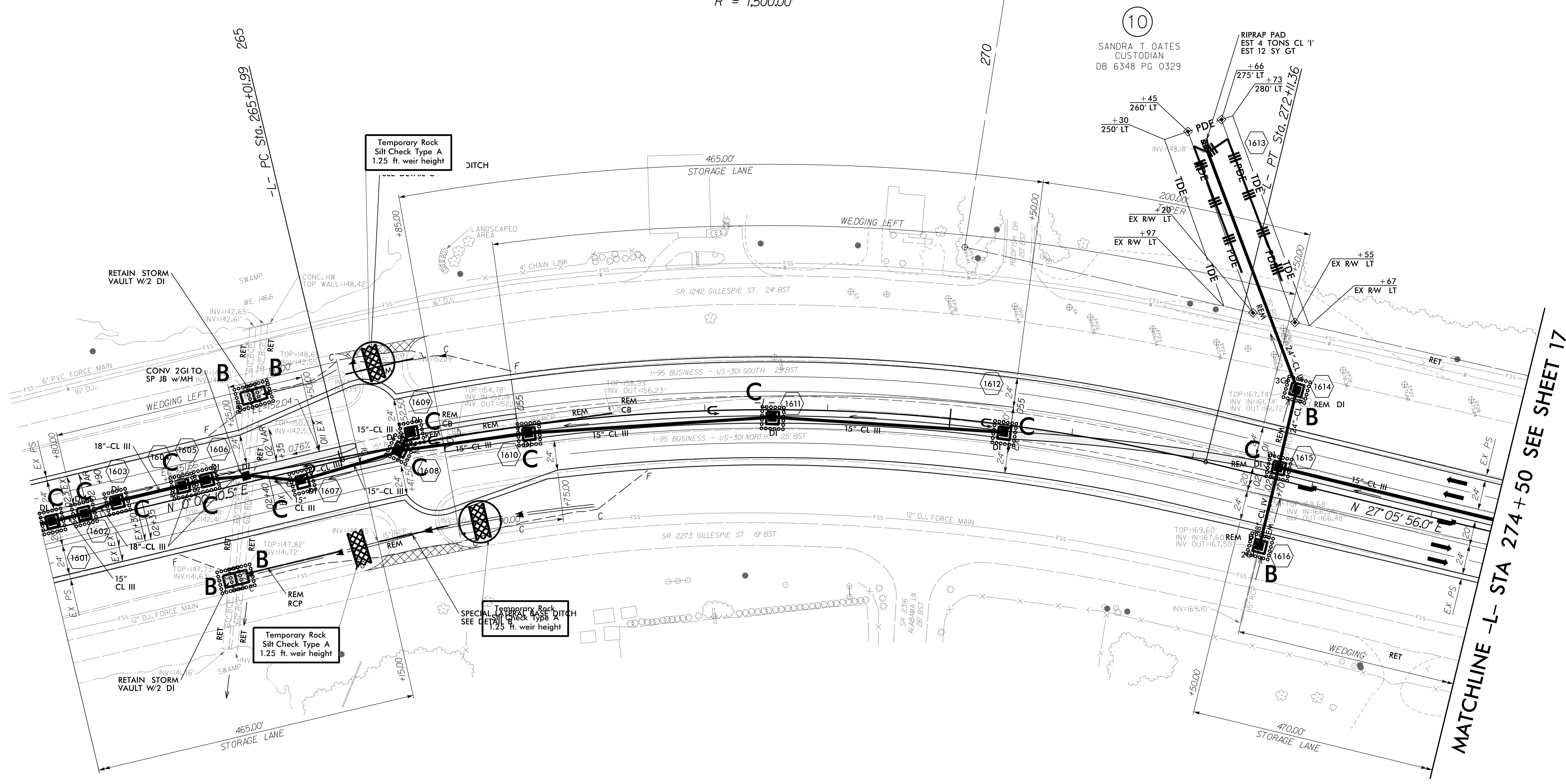
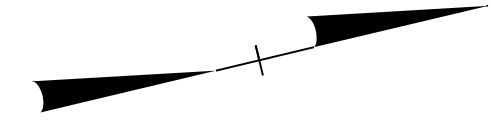
FROM -L- STA. 250+63, 68.3' RT TO STA. 252+98, 68.6' RT  
 FROM -L- STA. 252+07, 70.8' LT TO STA. 252+85, 70.1' LT  
 FROM -L- STA. 253+81, 68.8' LT TO STA. 254+11, 68.1' LT  
 FROM -L- STA. 253+82, 68.0' RT TO STA. 256+09, 71.8' RT

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NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

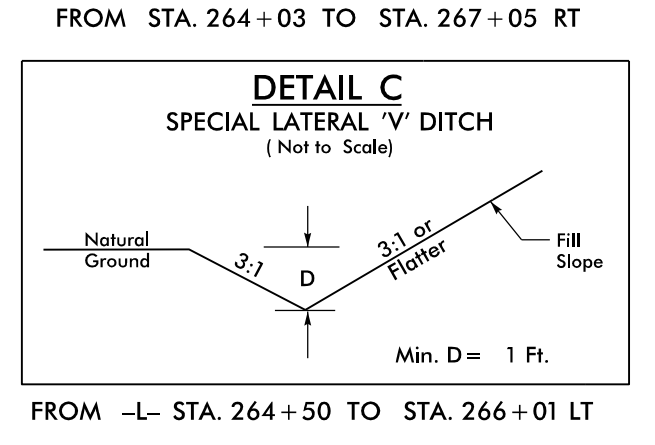
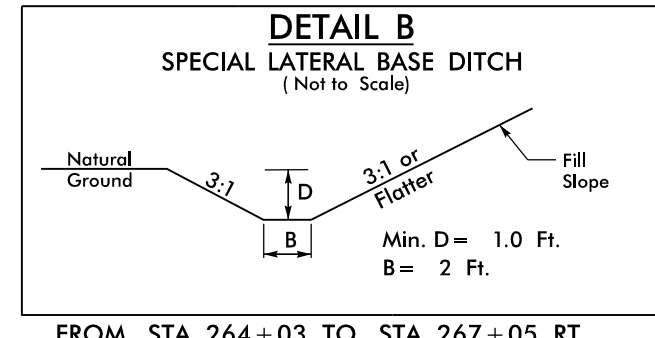
-L-  
 $PI\ Sta\ 268+63.44$   
 $\Delta = 27^{\circ} 05' 45.5" (RT)$   
 $D = 3^{\circ} 49' 11.0"$   
 $L = 709.37'$   
 $T = 361.45'$   
 $R = 1,500.00'$



MATCHLINE -L- STA 274+50 SEE SHEET 17

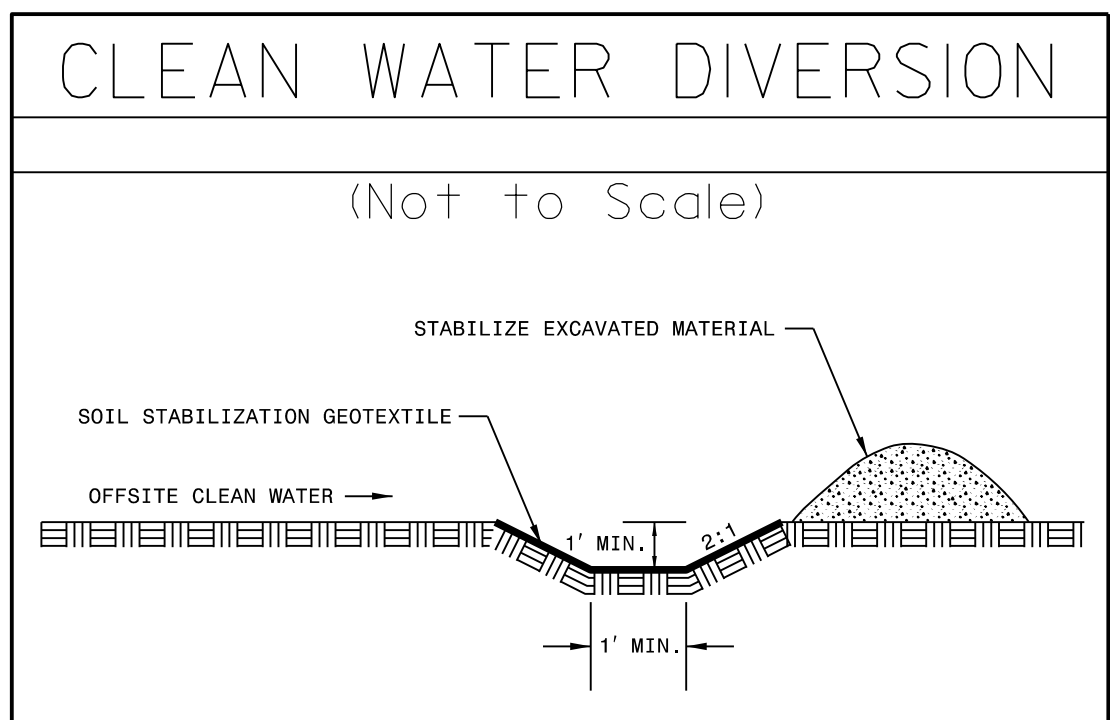
INSTALL MATTING FOR  
EROSION CONTROL IN THE  
PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.



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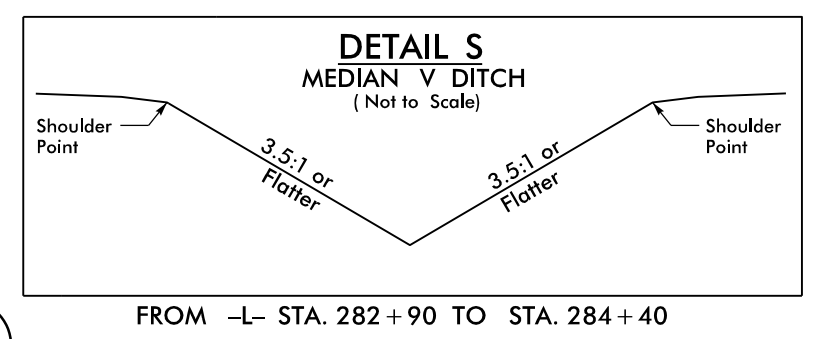
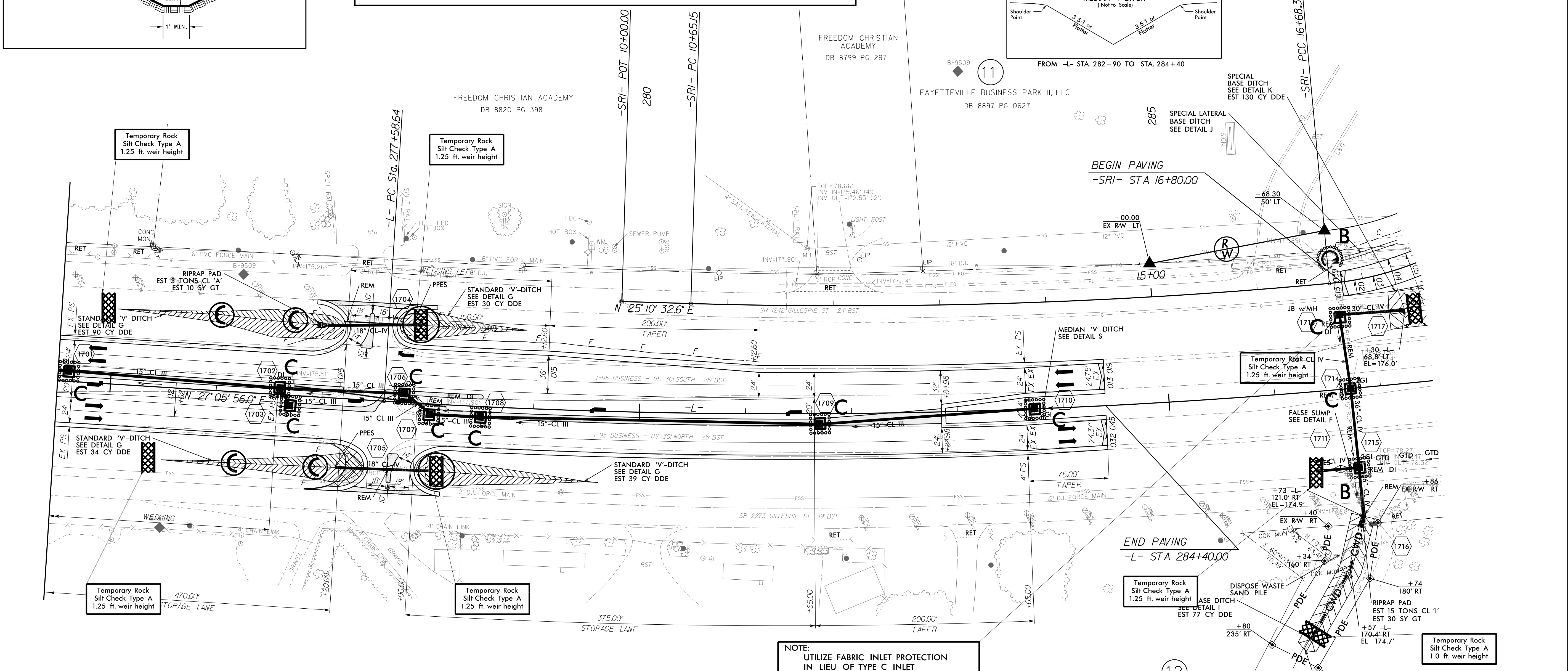




- CONSTRUCTION SEQUENCE:**
- 1) BUILD PROPOSED STORMWATER NETWORK AT STA 286+40 -L-
  - 2) REMOVE PAVEMENT AND CONSTRUCT DITCHES BASED ON DETAIL K; STABILIZE WITH MATTING
  - 3) GRADE 25:1 SHOULDER PORTION OF DETAIL K TO FINAL ELEVATION FROM STA 287+30 TO 290+47 -L-
  - 4) BUILD PROPOSED -SRI-

-SRI-  
 PI Sta 18+17.92  
 $\Delta = 53^{\circ}00'48.0''$  (LT)  
 $D = 19^{\circ}05'54.9''$   
 $L = 277.58'$   
 $T = 149.62'$   
 $R = 300.00'$   
 $DS = 30$  mph  
 $e = .06$   
 $RO = 109'$

-L-  
 PI Sta 282+84.62  
 $\Delta = 10^{\circ}01'11.8''$  (LT)  
 $D = 0^{\circ}57'17.7''$   
 $L = 1,049.29'$   
 $T = 525.98'$   
 $R = 6,000.00'$



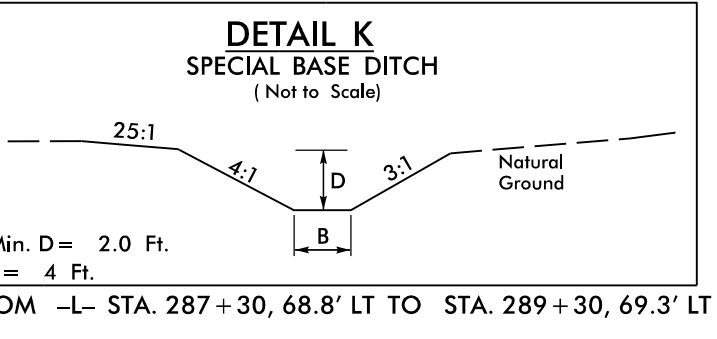
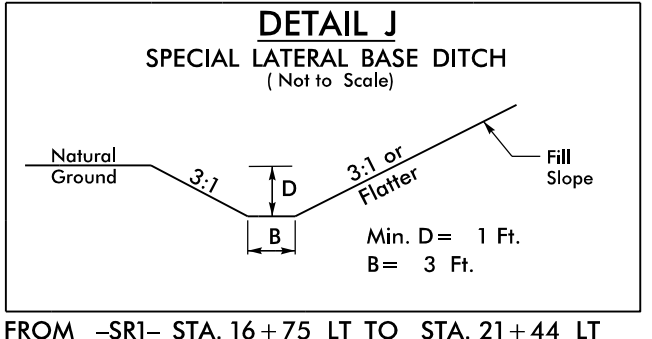
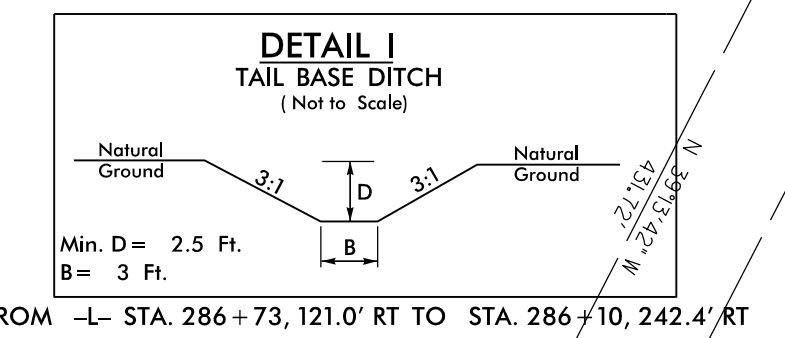
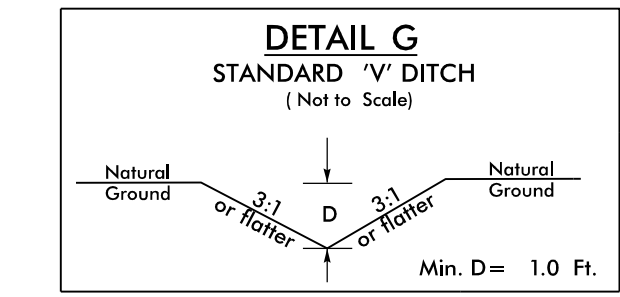
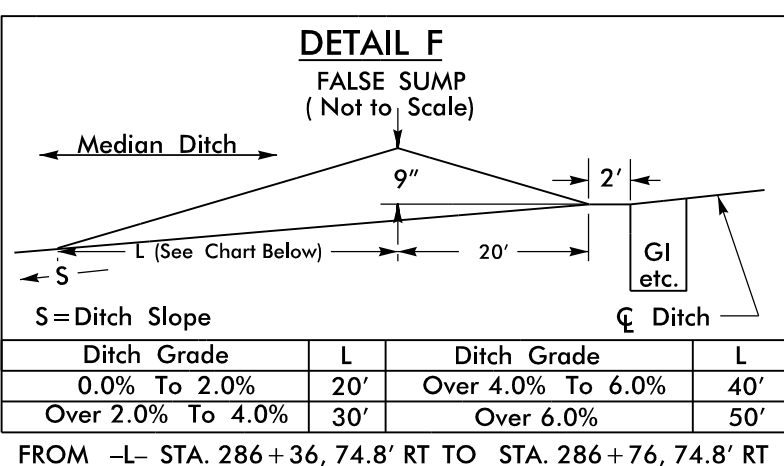
INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

Place Matting for Erosion Control in Temporary Ditches and Diversions.

NOTE: SILT FENCE AND COIR FIBER WATTLE BREAKS SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

NOTE: UTILIZE FABRIC INLET PROTECTION IN LIEU OF TYPE C INLET PROTECTION WHERE WATER MIGHT POND ON ROADWAY USED BY PUBLIC TRAFFIC



FOUNDATION OF THE UNIVERSITY OF NC-WILMINGTON INC  
 DB 7776 PG 259  
 PB 114 PG 259

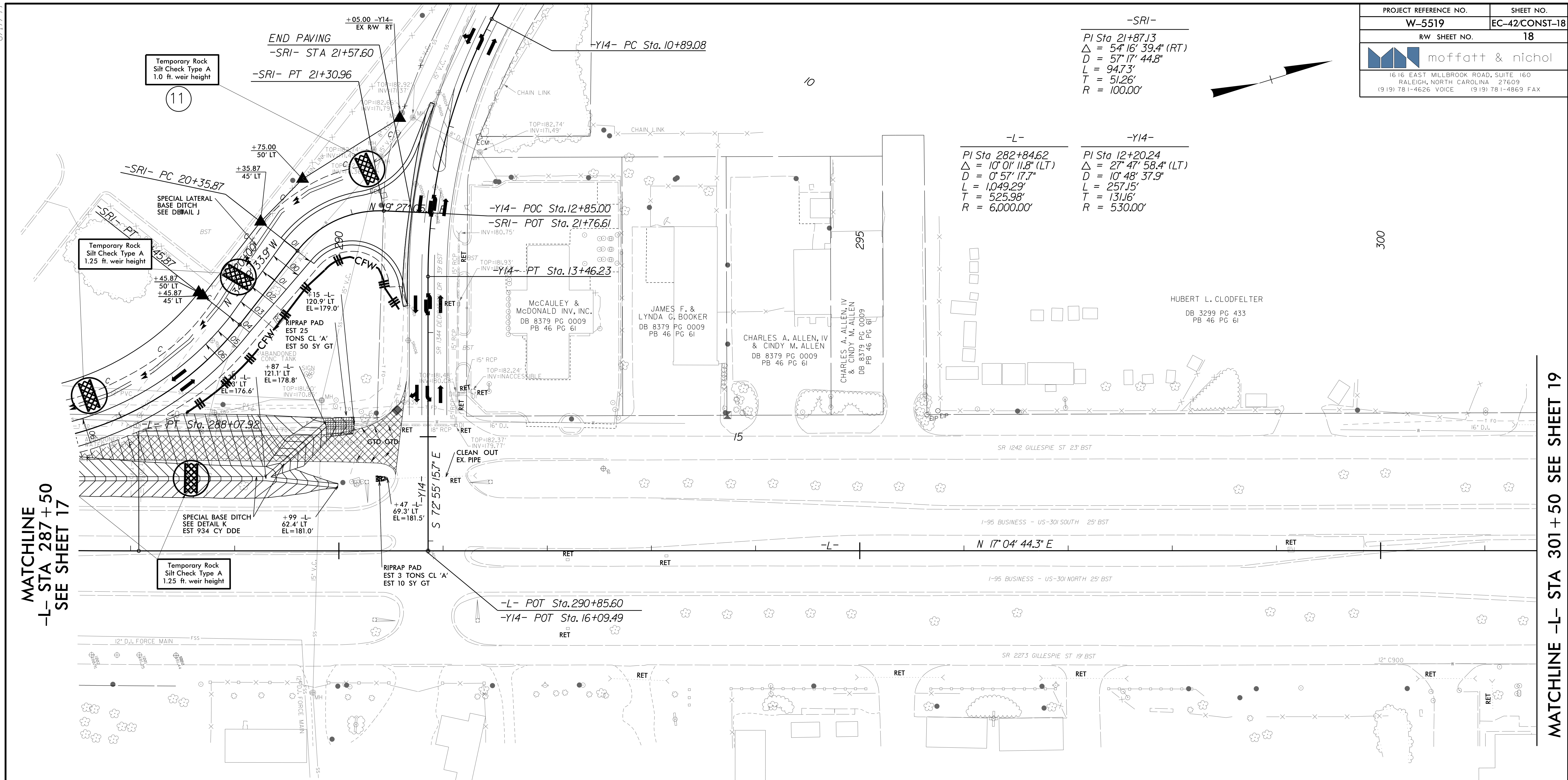
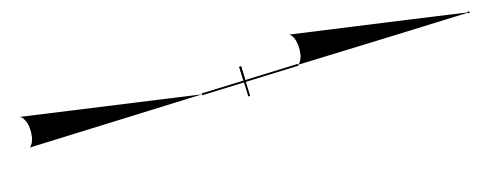
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-SRI-  
 PI Sta 21+87.13  
 $\Delta = 54' 16" 39.4" (RT)$   
 $D = 57' 17" 44.8"$   
 $L = 947.3'$   
 $T = 51.26'$   
 $R = 100.00'$

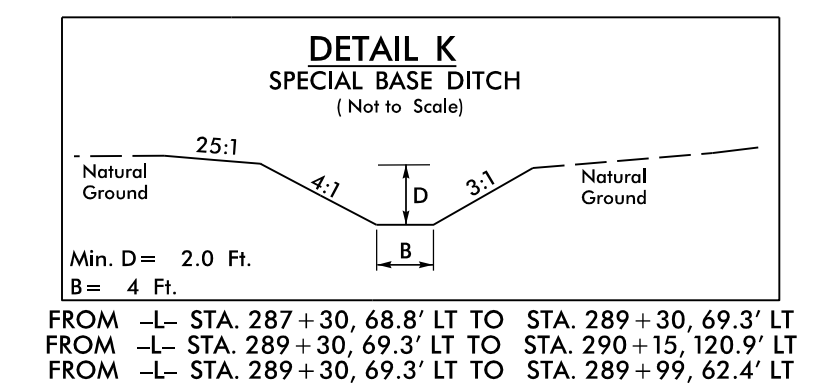
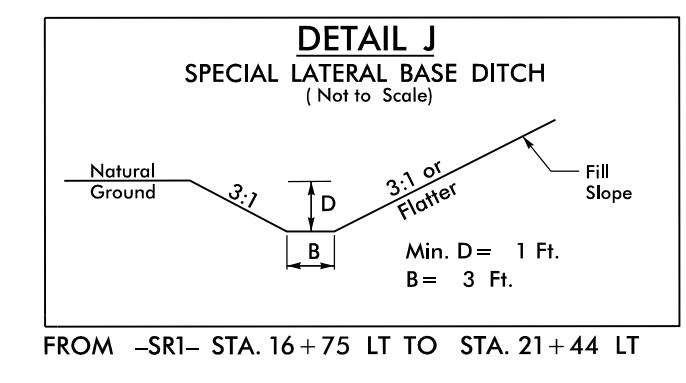
-L-  
 PI Sta 282+84.62  
 $\Delta = 10' 01" 11.8" (LT)$   
 $D = 0' 57" 17.7"$   
 $L = 1,049.29'$   
 $T = 525.98'$   
 $R = 6,000.00'$

-Y14-  
 PI Sta 12+20.24  
 $\Delta = 27' 47" 58.4" (LT)$   
 $D = 10' 48" 37.9"$   
 $L = 257.15'$   
 $T = 131.16'$   
 $R = 530.00'$



MATCHLINE  
-L- STA 287+50  
SEE SHEET 17

MATCHLINE -L- STA 301+50 SEE SHEET 19



NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

INSTALL MATTING FOR  
EROSION CONTROL IN THE  
PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.

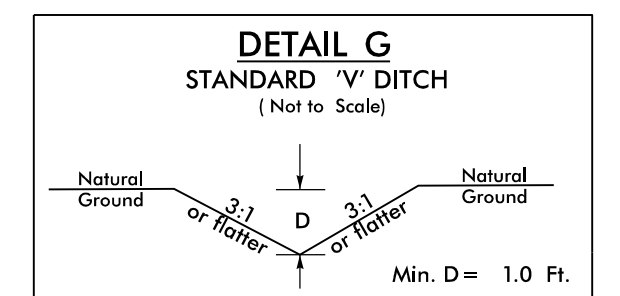
- CONSTRUCTION SEQUENCE:**
- 1) BUILD PROPOSED STORMWATER NETWORK AT STA 286+40 -L-
  - 2) REMOVE PAVEMENT AND CONSTRUCT DITCHES BASED ON DETAIL K; STABILIZE WITH MATTING
  - 3) GRADE 25:1 SHOULDER PORTION OF DETAIL K TO FINAL ELEVATION FROM STA 287+30 TO 290+47 -L-
  - 4) BUILD PROPOSED -SRI-

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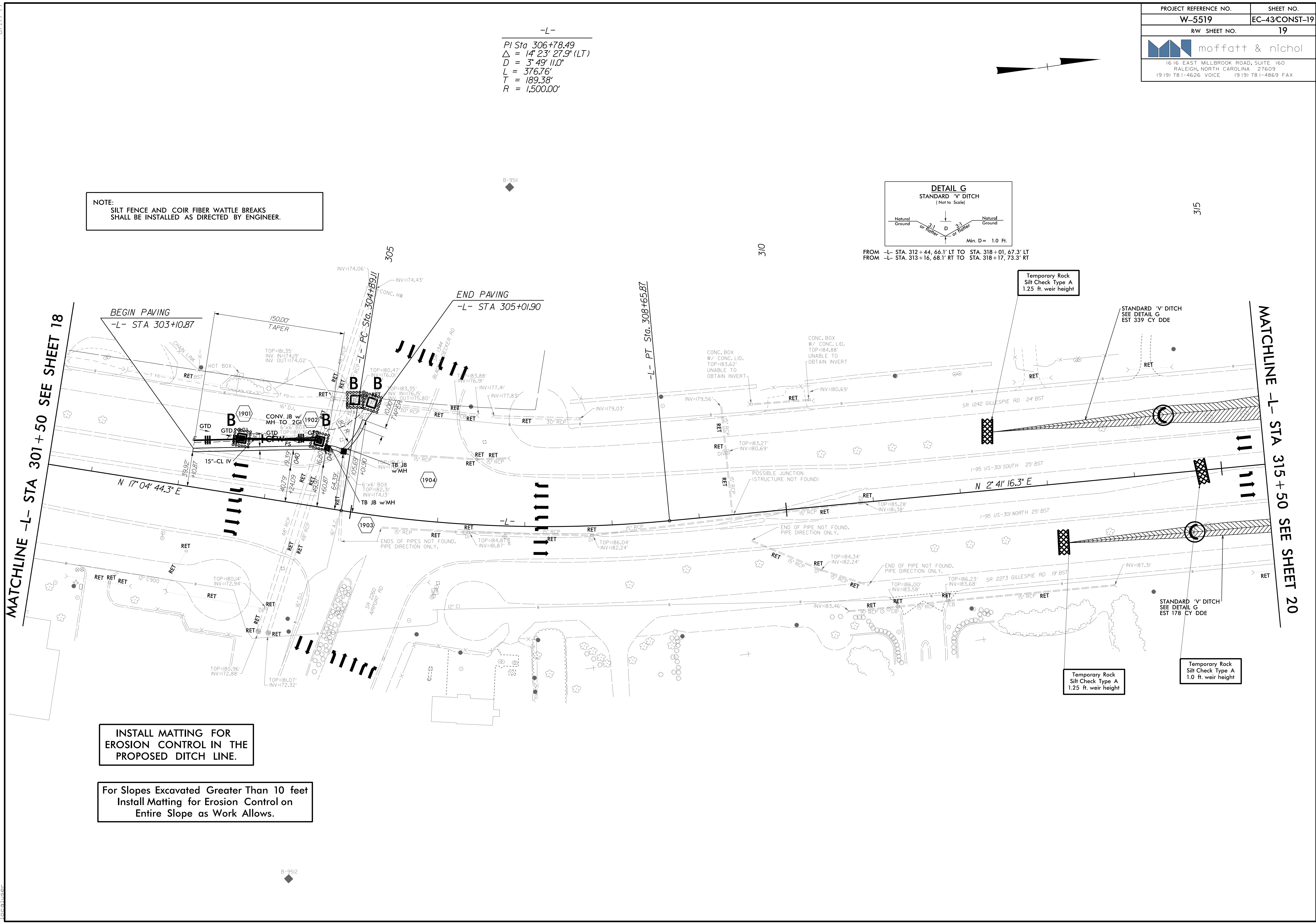
-L-  
 Pl Sta 306+78.49  
 $\Delta = 14^{\circ} 23' 27.9" (LT)$   
 $D = 3^{\circ} 49' 11.0"$   
 $L = 376.76'$   
 $T = 189.38'$   
 $R = 1,500.00'$

NOTE:  
 SILT FENCE AND COIR FIBER WATTLE BREAKS  
 SHALL BE INSTALLED AS DIRECTED BY ENGINEER.



FROM -L- STA. 312+44, 66.1' LT TO STA. 318+01, 67.3' LT  
 FROM -L- STA. 313+16, 68.1' RT TO STA. 318+17, 73.3' RT

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 localuser



INSTALL MATTING FOR  
 EROSION CONTROL IN THE  
 PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet  
 Install Matting for Erosion Control on  
 Entire Slope as Work Allows.

Temporary Rock  
 Silt Check Type A  
 1.25 ft. weir height

Temporary Rock  
 Silt Check Type A  
 1.0 ft. weir height

STANDARD 'V' DITCH  
 SEE DETAIL G  
 EST 339 CY DDE

STANDARD 'V' DITCH  
 SEE DETAIL G  
 EST 178 CY DDE

315

MATCHLINE -L- STA 301 + 50 SEE SHEET 18

MATCHLINE -L- STA 315 + 50 SEE SHEET 20

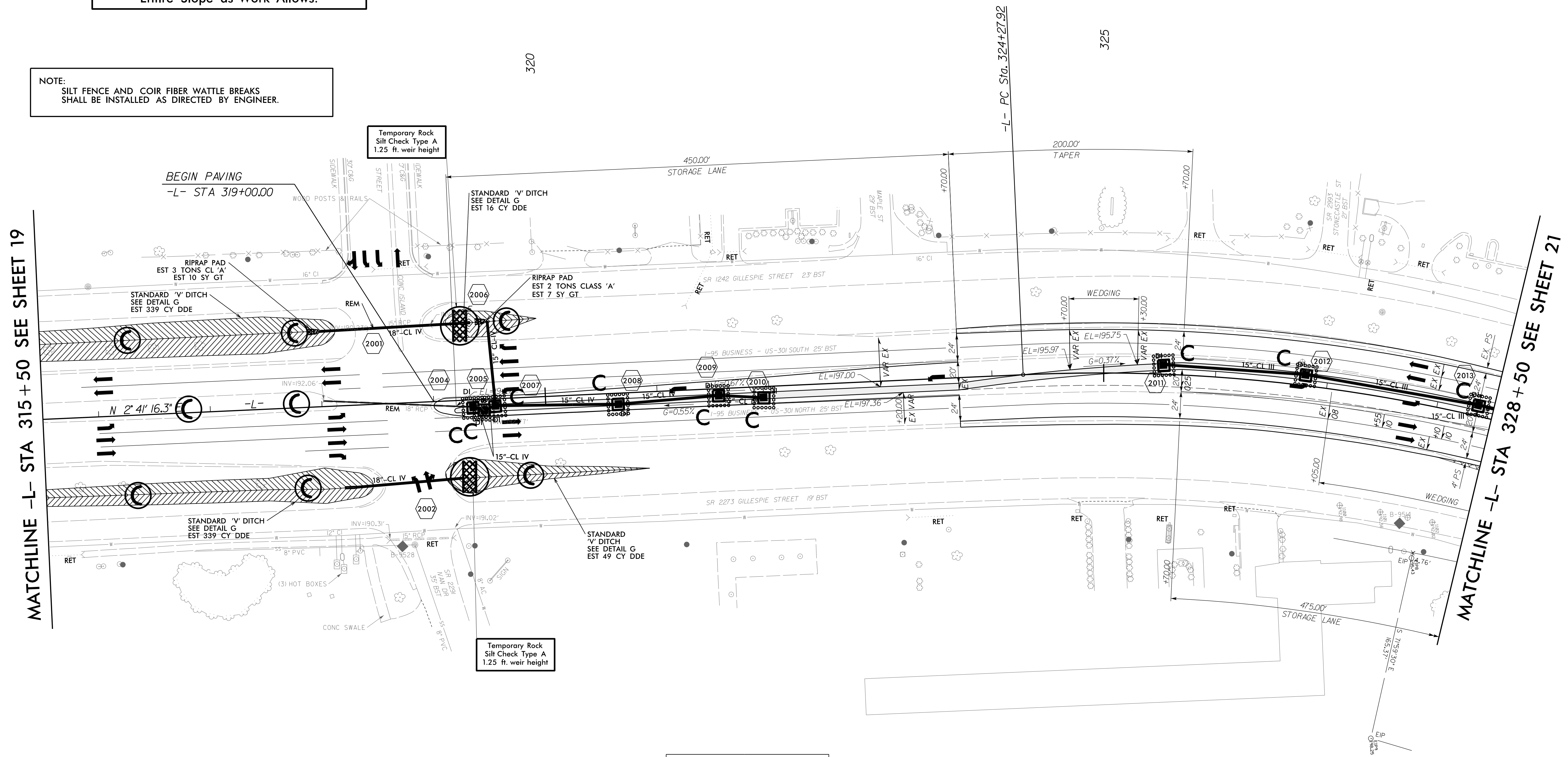


**INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.**

**For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.**

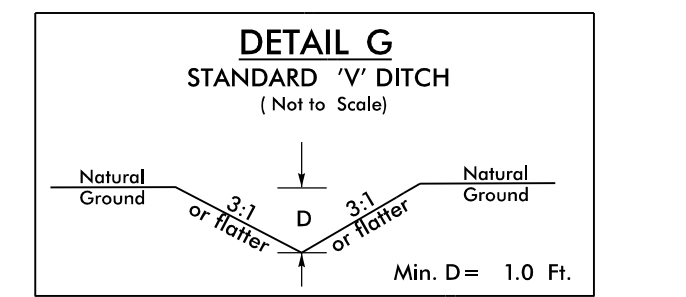
**NOTE:**  
SILT FENCE AND COIR FIBER WATTLE BREAKS SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

-L-  
*Pi Sta 326+78.01*  
 $\Delta = 18^{\circ} 55' 53.1''$  (RT)  
 $D = 3' 49' 11.0''$   
 $L = 495.62'$   
 $T = 250.09'$   
 $R = 1,500.00'$



MATCHLINE -L- STA 315+50 SEE SHEET 19

MATCHLINE -L- STA 328+50 SEE SHEET 21



FROM -L- STA. 312+44, 66.1' LT TO STA. 318+01, 67.3' LT  
FROM -L- STA. 313+16, 68.1' RT TO STA. 318+17, 73.3' RT  
FROM -L- STA. 319+36, 69.1' LT TO STA. 319+95, 70.2' LT  
FROM -L- STA. 319+24, 69.8' RT TO STA. 320+90, 68.3' RT

8/17/99

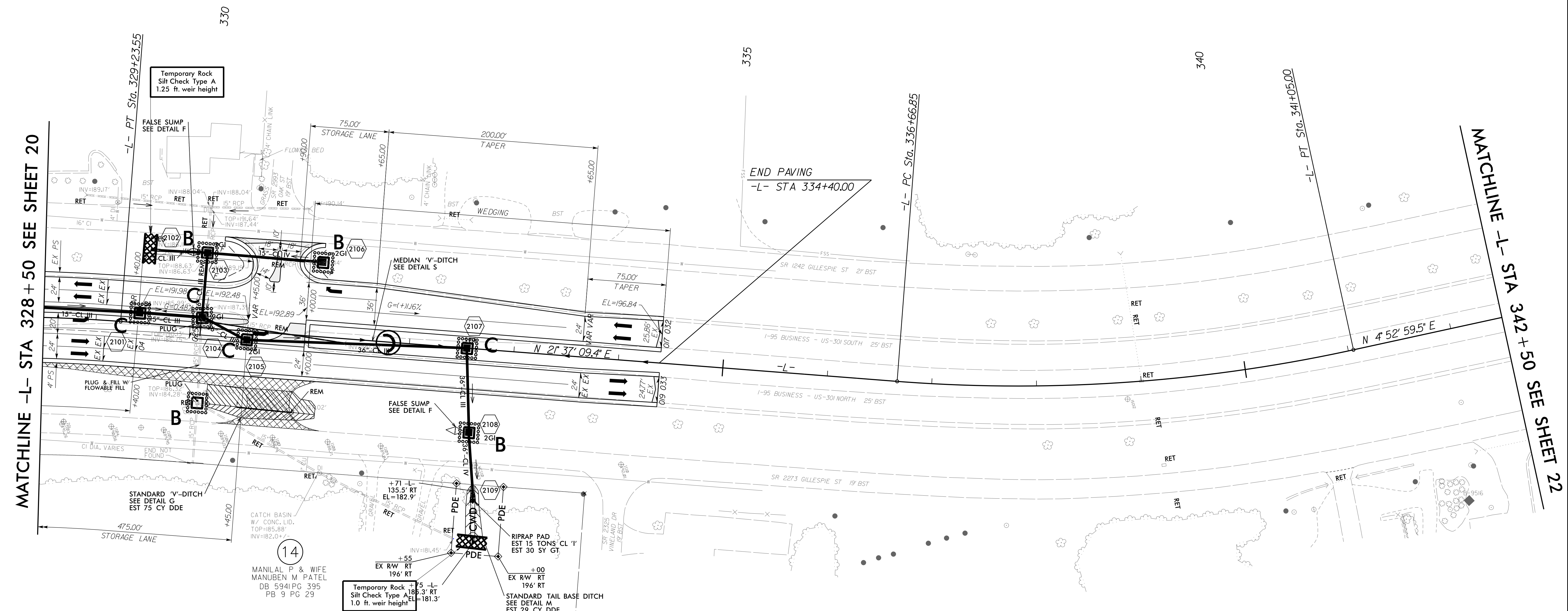
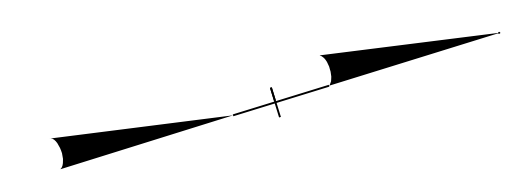
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-L-  
 PI Sta 326+78.01  
 $\Delta = 18^{\circ}55'53.1''$  (RT)  
 $D = 3^{\circ}49'11.0''$   
 $L = 495.62'$   
 $T = 250.09'$   
 $R = 1,500.00'$

NOTE:  
 SILT FENCE AND COIR FIBER WATTLE BREAKS  
 SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

-L-  
 PI Sta 338+87.49  
 $\Delta = 16^{\circ}44'09.9''$  (LT)  
 $D = 3^{\circ}49'11.0''$   
 $L = 438.15'$   
 $T = 220.65'$   
 $R = 1,500.00'$



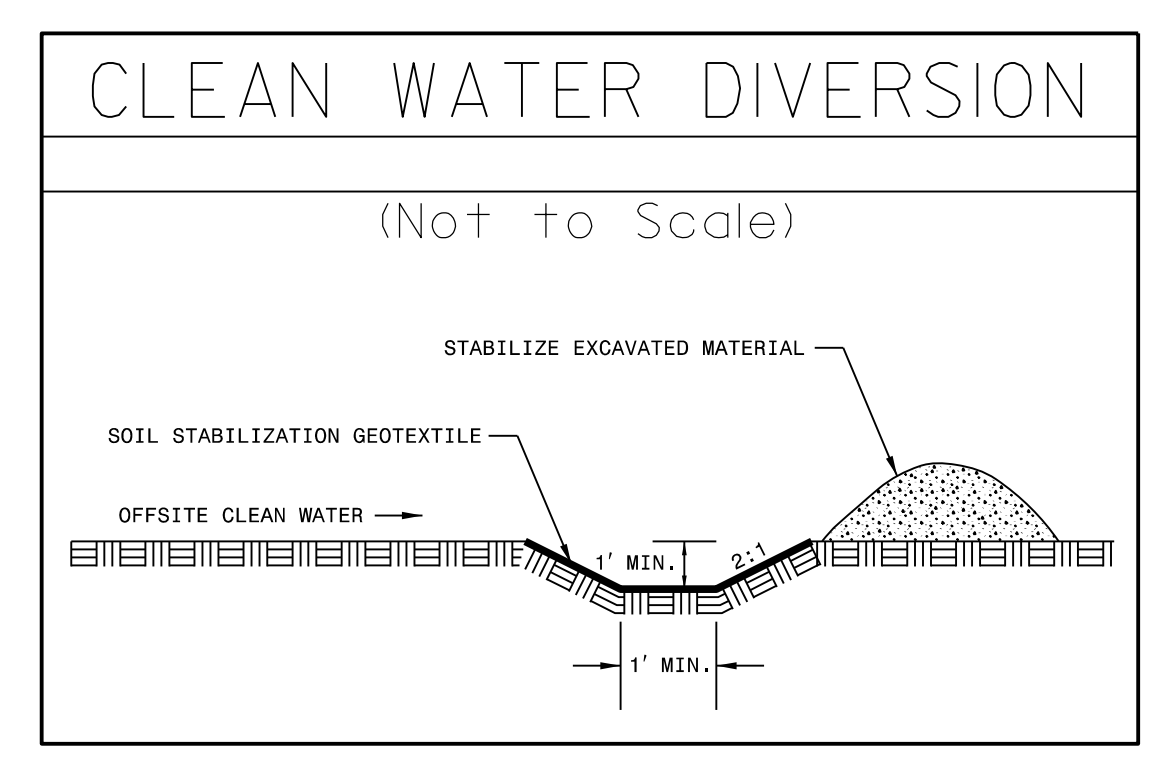
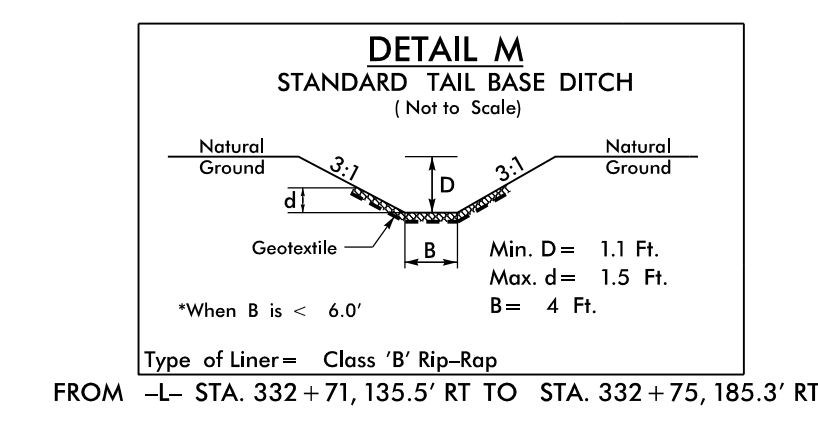
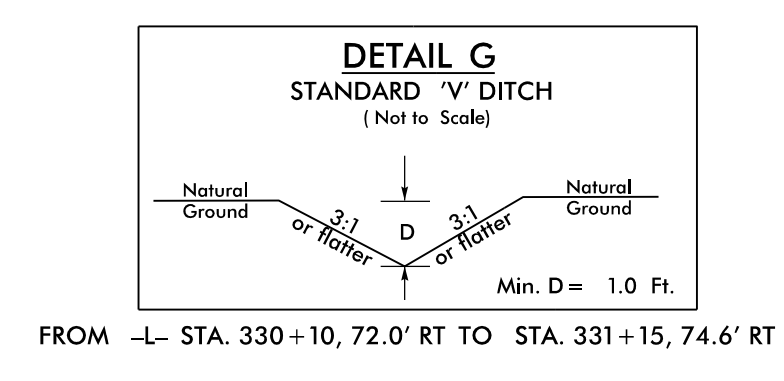
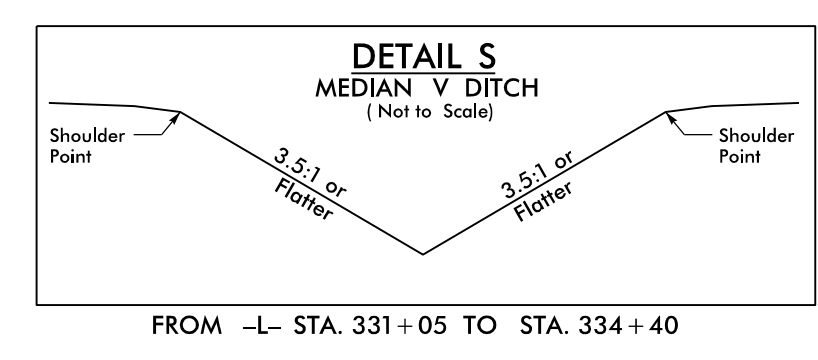
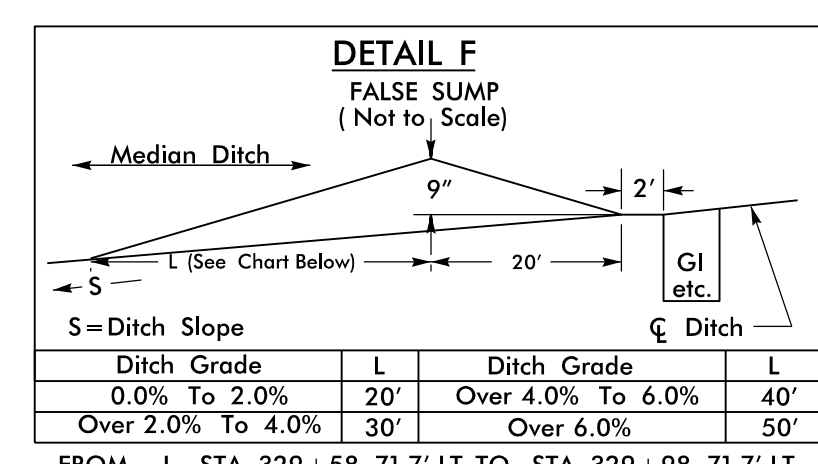
MATCHLINE -L- STA 328+50 SEE SHEET 20

MATCHLINE -L- STA 342+50 SEE SHEET 22

INSTALL MATTING FOR  
 EROSION CONTROL IN THE  
 PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet  
 Install Matting for Erosion Control on  
 Entire Slope as Work Allows.

Place Matting for Erosion Control in  
 Temporary Ditches and Diversions.



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 locauser

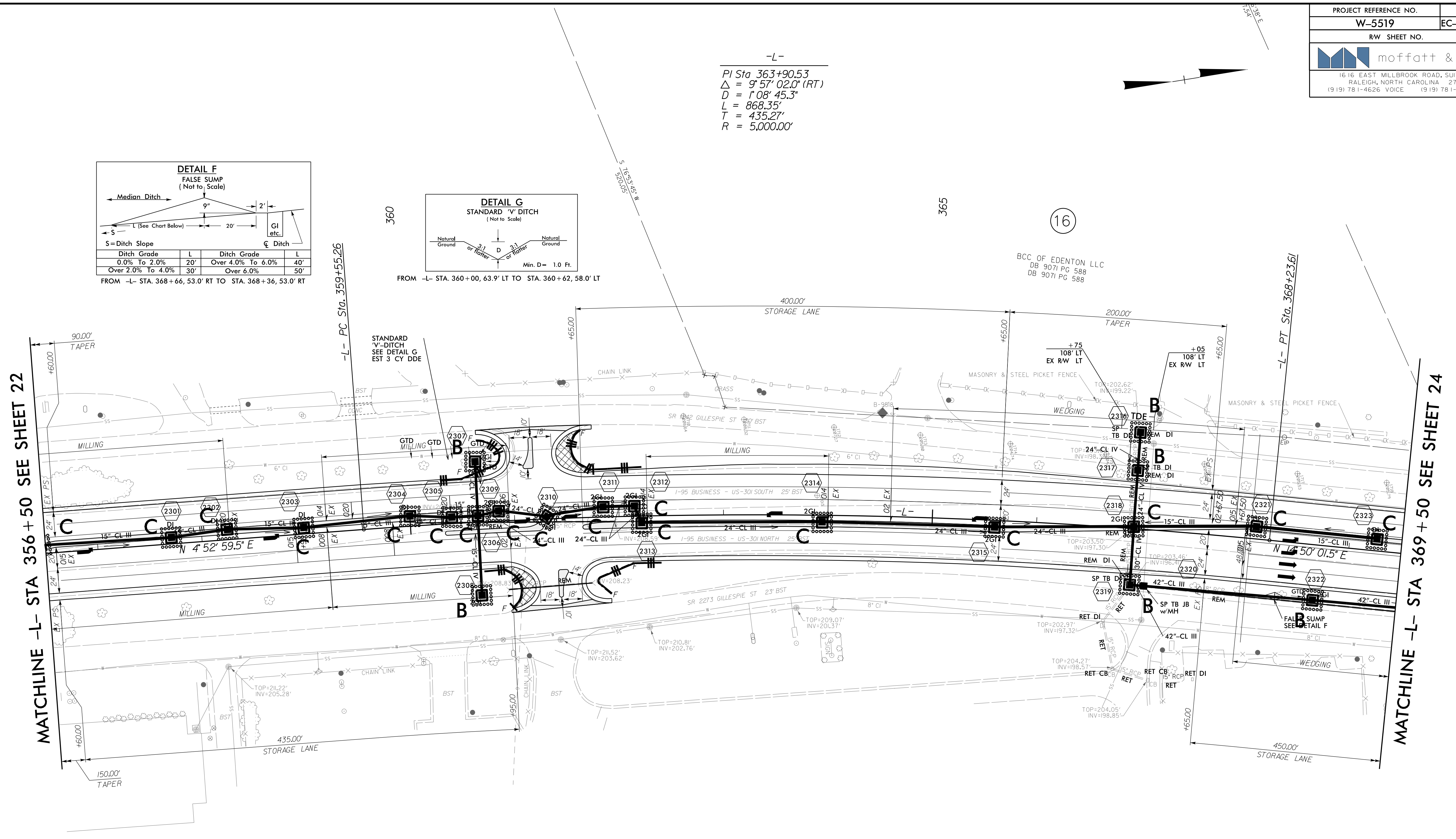
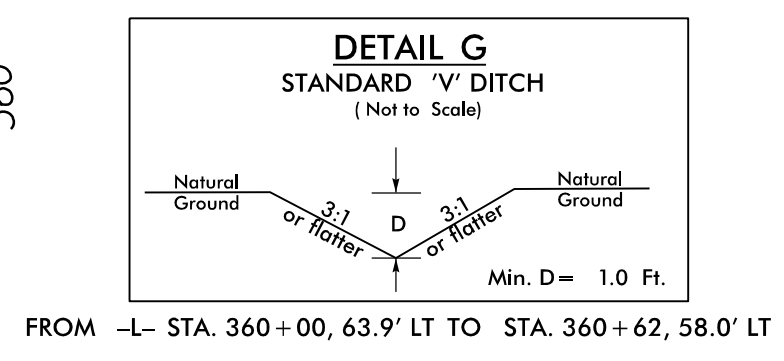
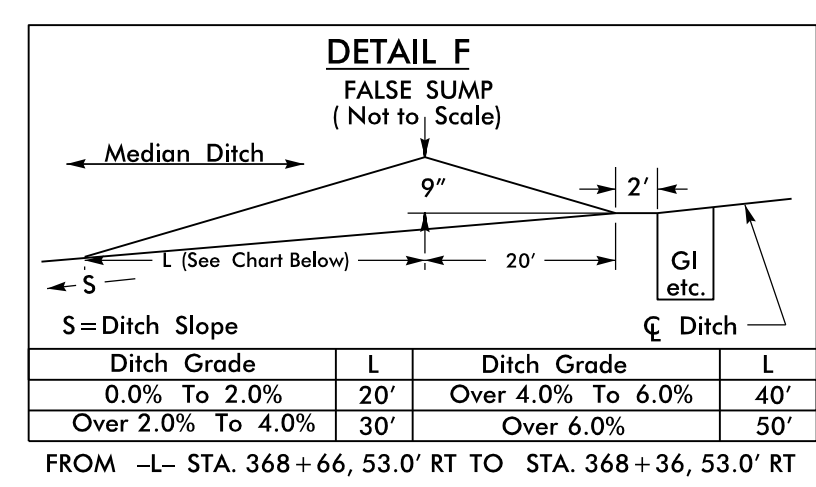






-L-

$Pi$  Sta 363+90.53  
 $\Delta = 9' 57" 02.0" (RT)$   
 $D = 1' 08" 45.3"$   
 $L = 868.35'$   
 $T = 435.27'$   
 $R = 5,000.00'$



MATCHLINE -L- STA 356 + 50 SEE SHEET 22

MATCHLINE -L- STA 369 + 50 SEE SHEET 24

**NOTE:**  
SILT FENCE AND COIR FIBER WATTLE BREAKS SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

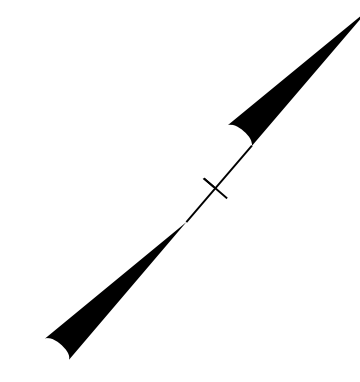
**INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.**

For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.









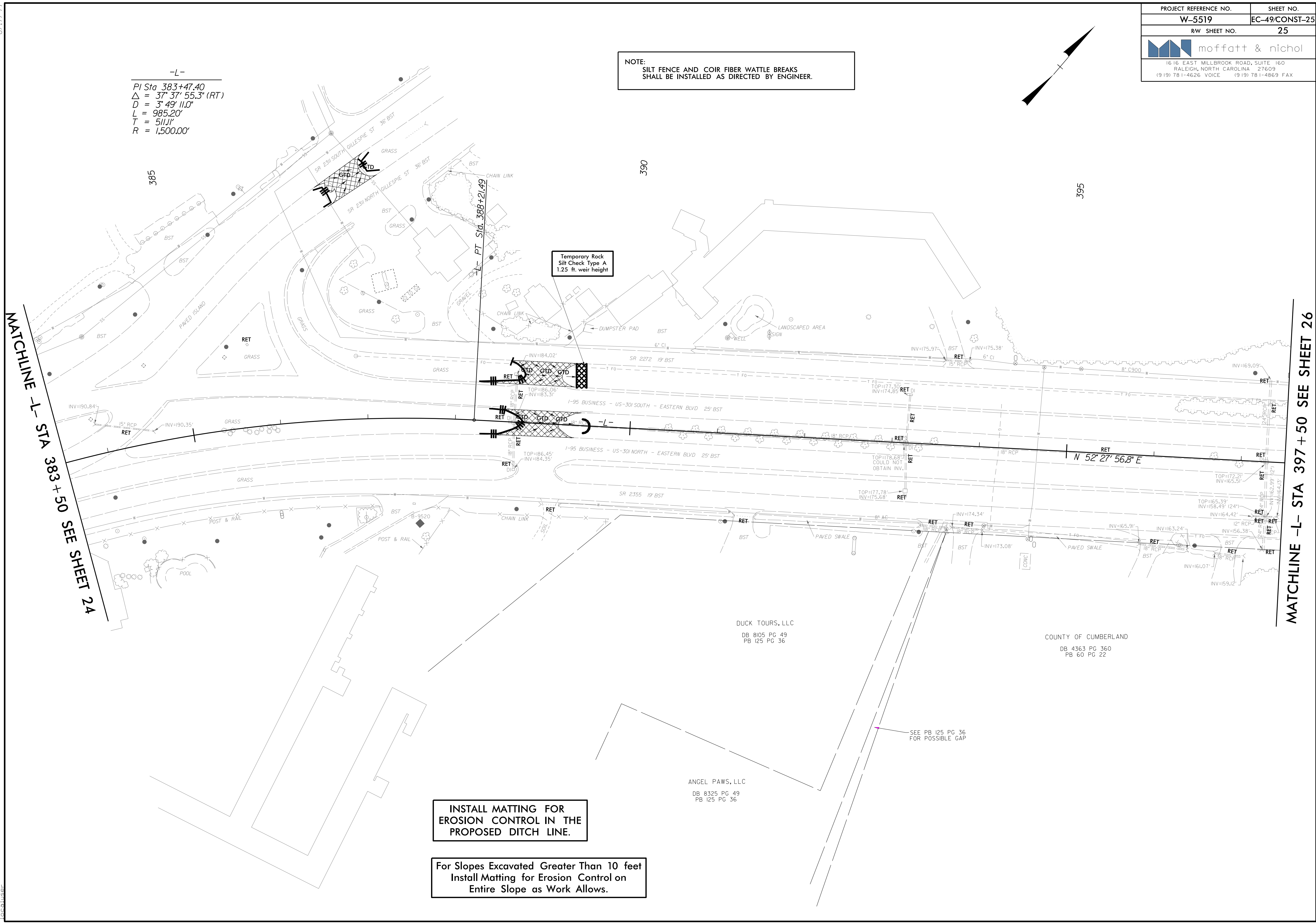
**NOTE:**  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

-L-  
PI Sta 383+47.40  
 $\Delta = 37^{\circ} 37' 55.3" (RT)$   
 $D = 3^{\circ} 49' 11.0"$   
 $L = 985.20'$   
 $T = 511.11'$   
 $R = 1,500.00'$

Temporary Rock  
Silt Check Type A  
1.25 ft. weir height

MATCHLINE -L- STA 383 + 50 SEE SHEET 24

MATCHLINE -L- STA 397 + 50 SEE SHEET 26



**INSTALL MATTING FOR  
EROSION CONTROL IN THE  
PROPOSED DITCH LINE.**


**For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.**

SEE PB 125 PG 36  
FOR POSSIBLE GAP

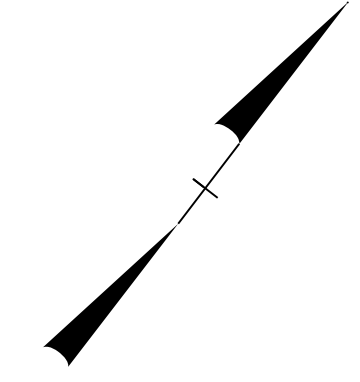
8/17/99  
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localuser



8/17/99  
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 8/14/2015  
 R:\Projects\5519\W-5519\_REL\_PSH50\_FINAL.dgn  
 Local User

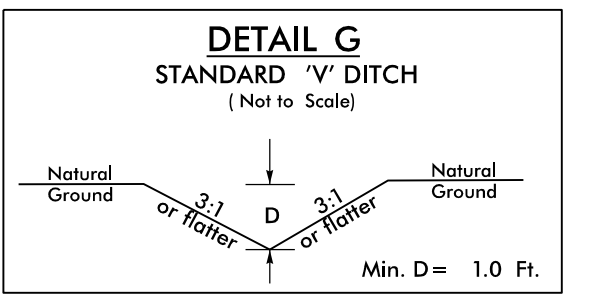
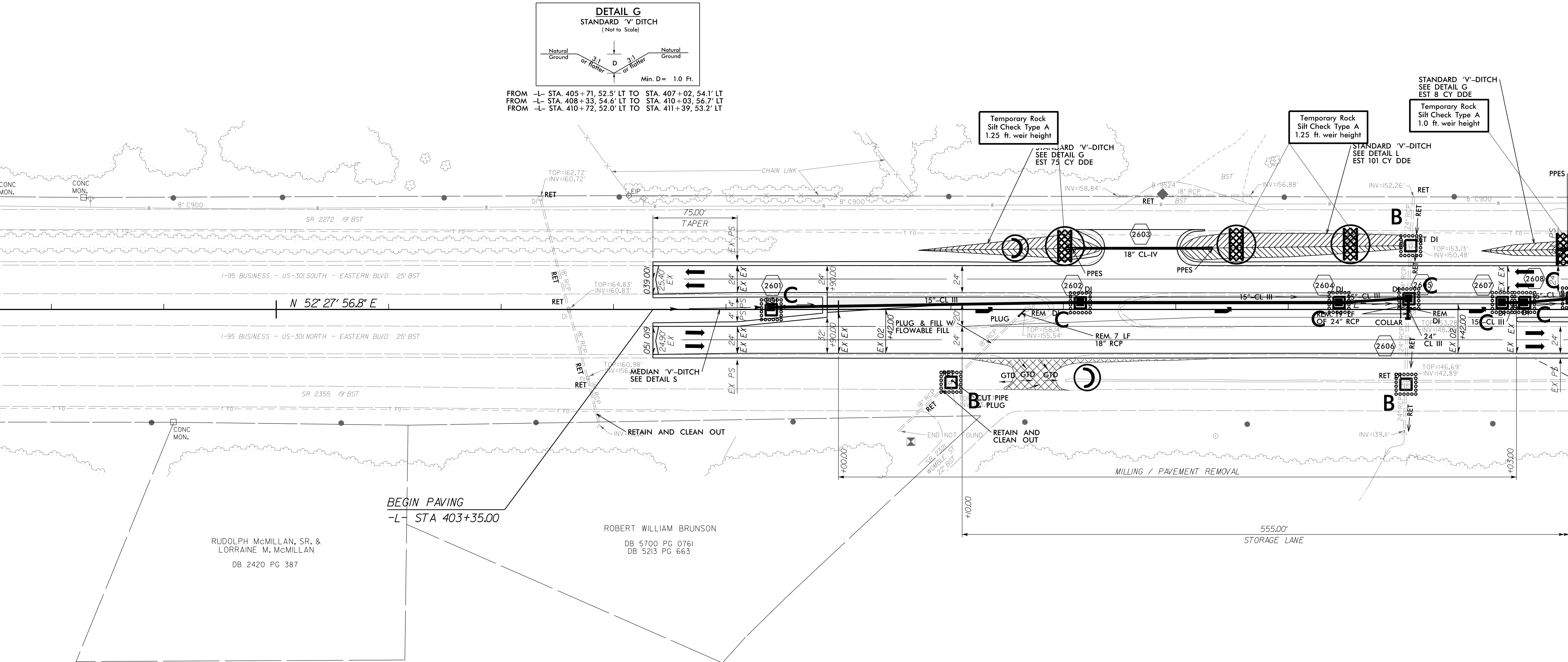
PROJECT REFERENCE NO.	SHEET NO.
W-5519	EC-50/CONST-26
RW SHEET NO.	26
 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 781-4626 VOICE (919) 781-4869 FAX	

**NOTE:**  
 SILT FENCE AND COIR FIBER WATTLE BREAKS  
 SHALL BE INSTALLED AS DIRECTED BY ENGINEER.



MATCHLINE -L- STA 397+50 SEE SHEET 25

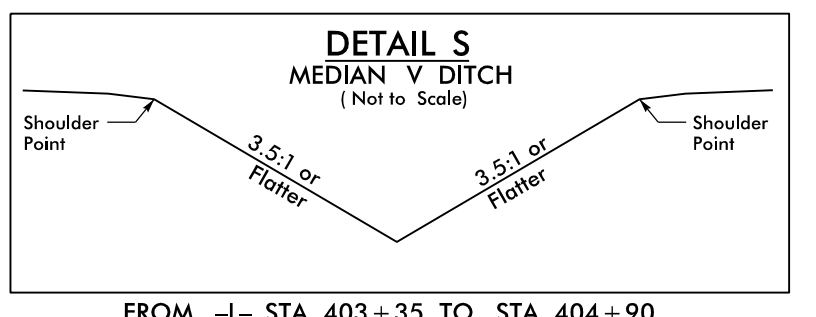
MATCHLINE -L- STA 411+50 SEE SHEET 27



FROM -L- STA. 405+71, 52.5' LT TO STA. 407+02, 54.1' LT  
 FROM -L- STA. 408+33, 54.6' LT TO STA. 410+03, 56.7' LT  
 FROM -L- STA. 410+72, 52.0' LT TO STA. 411+39, 53.2' LT

**INSTALL MATTING FOR  
 EROSION CONTROL IN THE  
 PROPOSED DITCH LINE.**

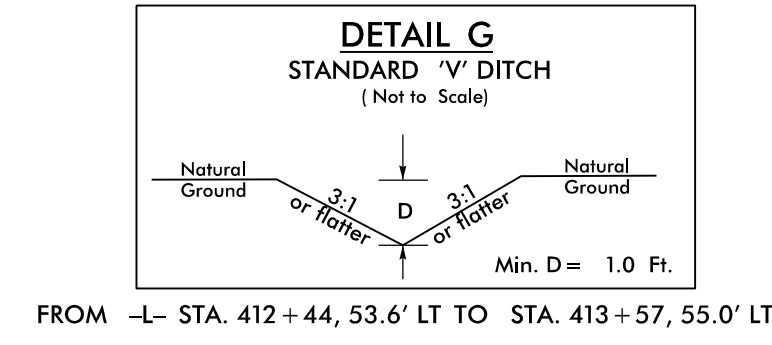
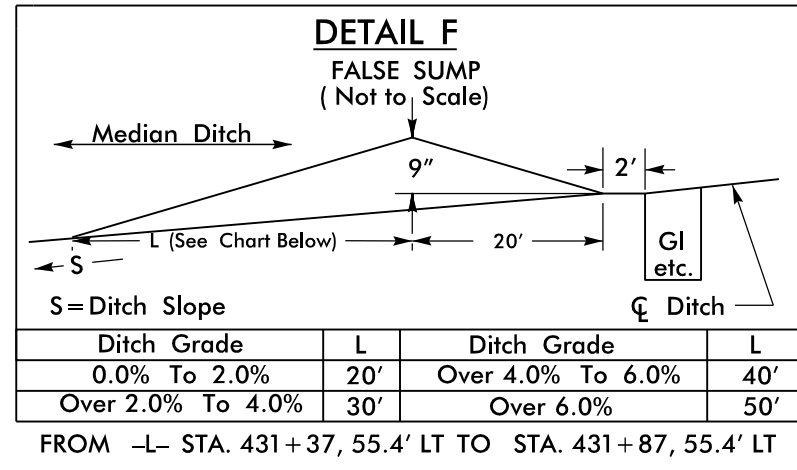
**For Slopes Excavated Greater Than 10 feet  
 Install Matting for Erosion Control on  
 Entire Slope as Work Allows.**



FROM -L- STA. 403+35 TO STA. 404+90

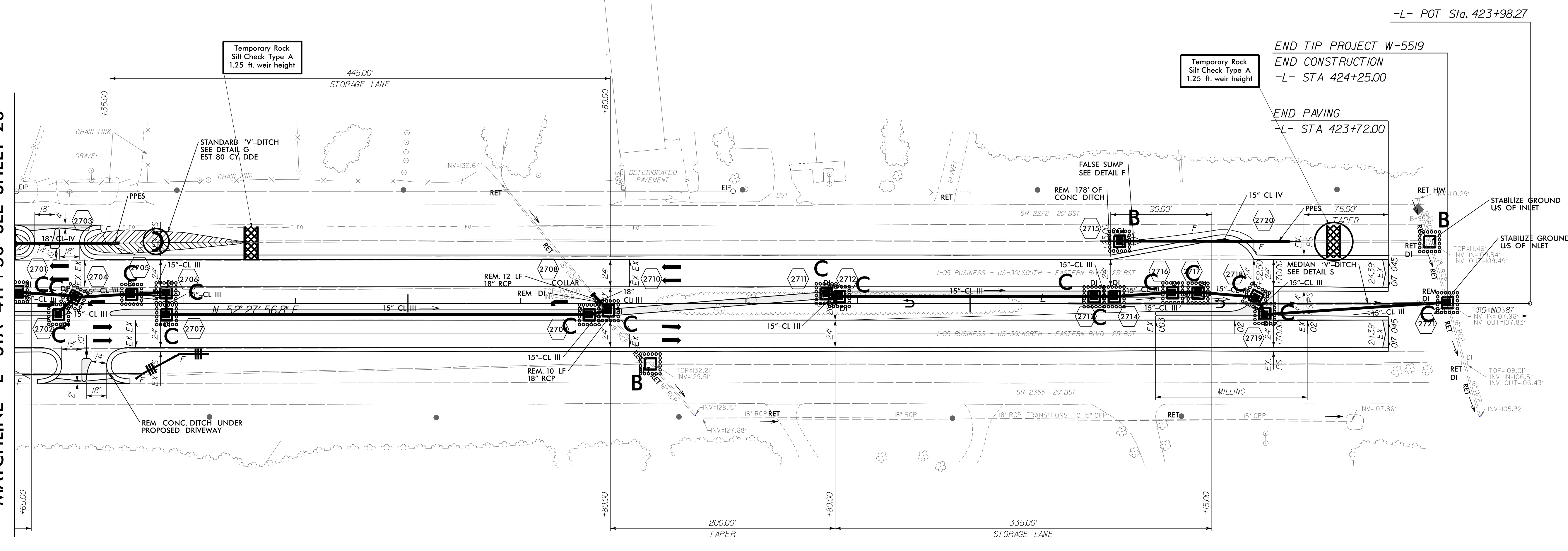
B-9523





NOTE:  
SILT FENCE AND COIR FIBER WATTLE BREAKS  
SHALL BE INSTALLED AS DIRECTED BY ENGINEER.

MATCHLINE -L- STA 411+50 SEE SHEET 26



INSTALL MATTING FOR  
EROSION CONTROL IN THE  
PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet  
Install Matting for Erosion Control on  
Entire Slope as Work Allows.

