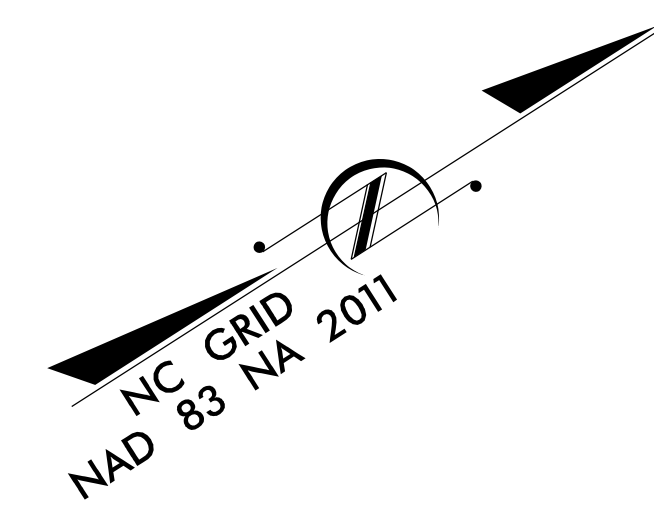
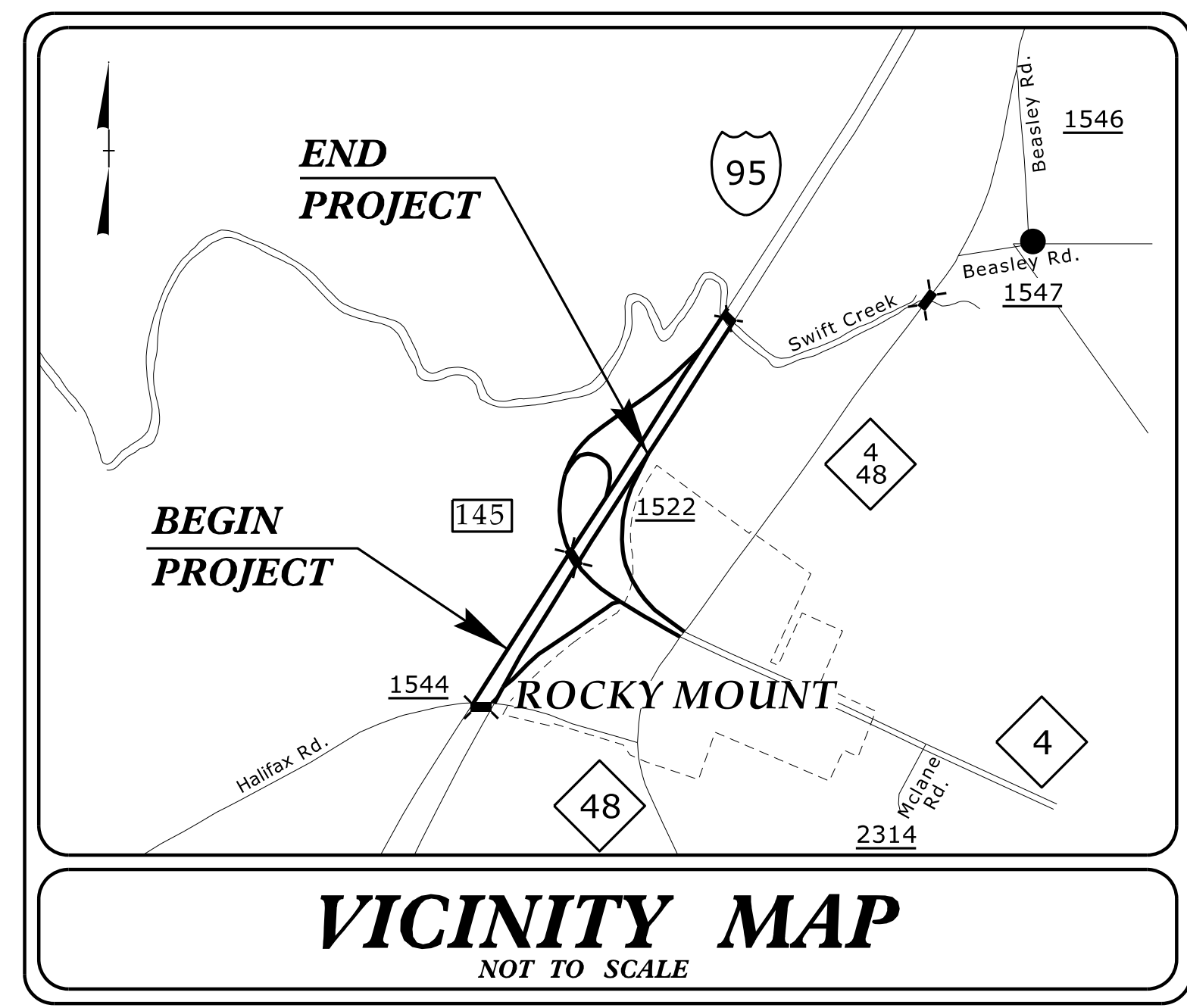


TIP PROJECT: B-5980

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

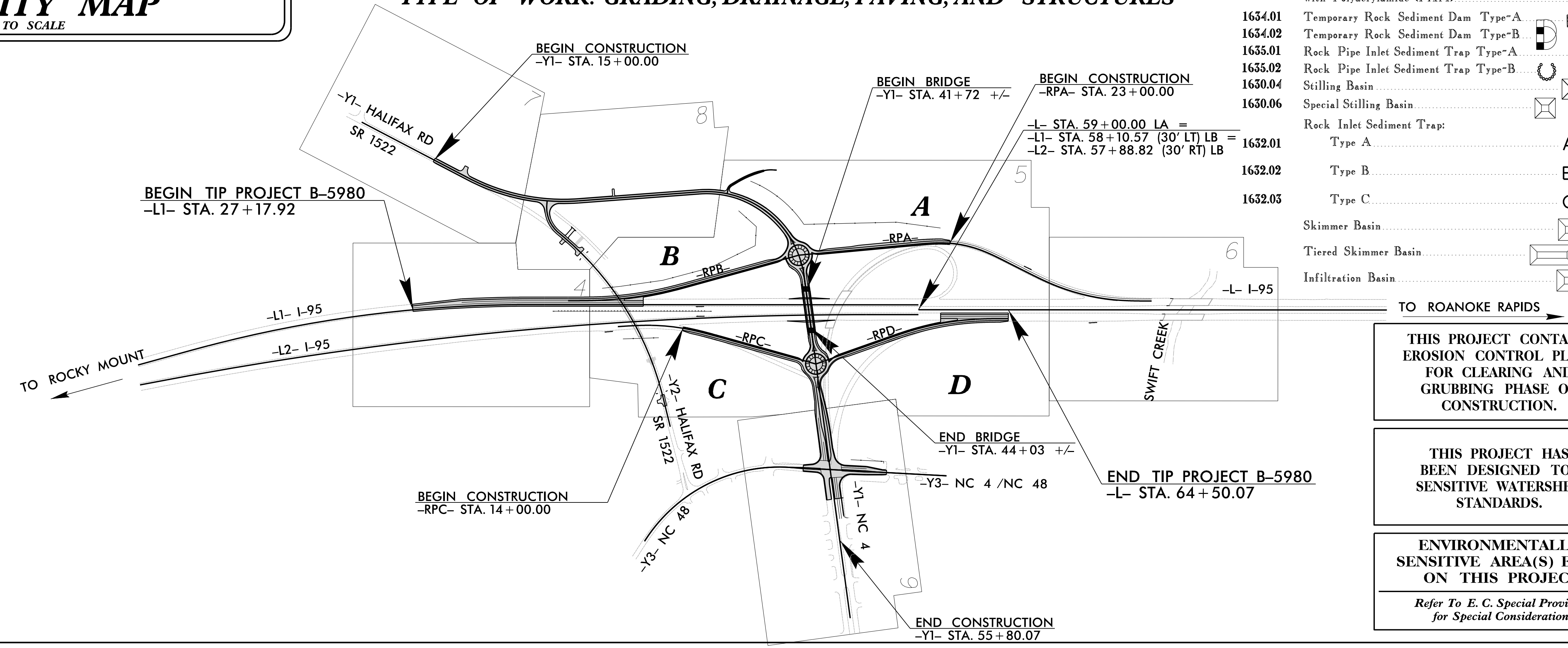


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5980	EC-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	



**LOCATION: I-95 INTERCHANGE IMPROVEMENTS
 AT HALIFAX ROAD (SR 1522)**

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURES



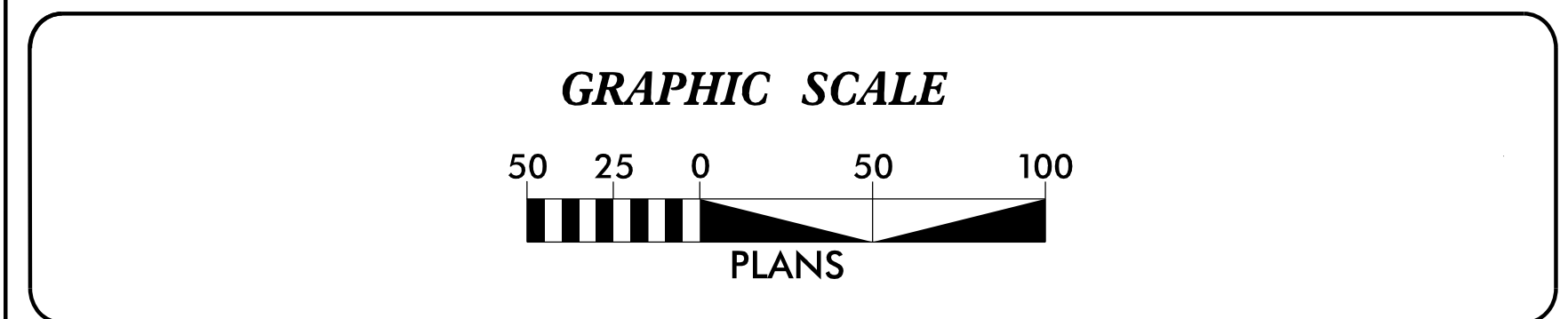
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1650.03	Temporary Silt Ditch	---
1650.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	---X---
1622.01	Temporary Berms and Slope Drains	---X---
1630.02	Silt Basin Type B	▭
1633.01	Temporary Rock Silt Check Type-A	▭
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▭
1633.02	Temporary Rock Silt Check Type-B	▭
	Wattle/Coir Fiber Wattle	~
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	~
1634.01	Temporary Rock Sediment Dam Type-A	▭
1634.02	Temporary Rock Sediment Dam Type-B	▭
1635.01	Rock Pipe Inlet Sediment Trap Type-A	U
1635.02	Rock Pipe Inlet Sediment Trap Type-B	U
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

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

THIS PROJECT HAS
 BEEN DESIGNED TO
 SENSITIVE WATERSHED
 STANDARDS.

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



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:
AECOM
 Firm License No. F-0342
 701 Corporate Center Drive, Suite 475
 Raleigh NC 27607
 (919) 854-6200 (919) 854-6259 (Fax)

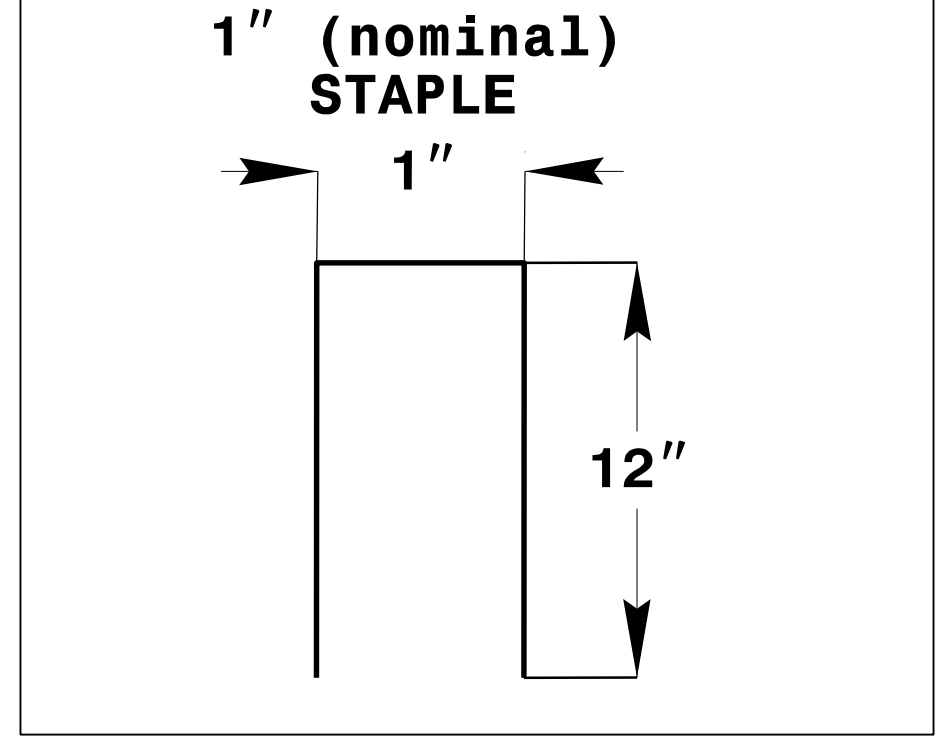
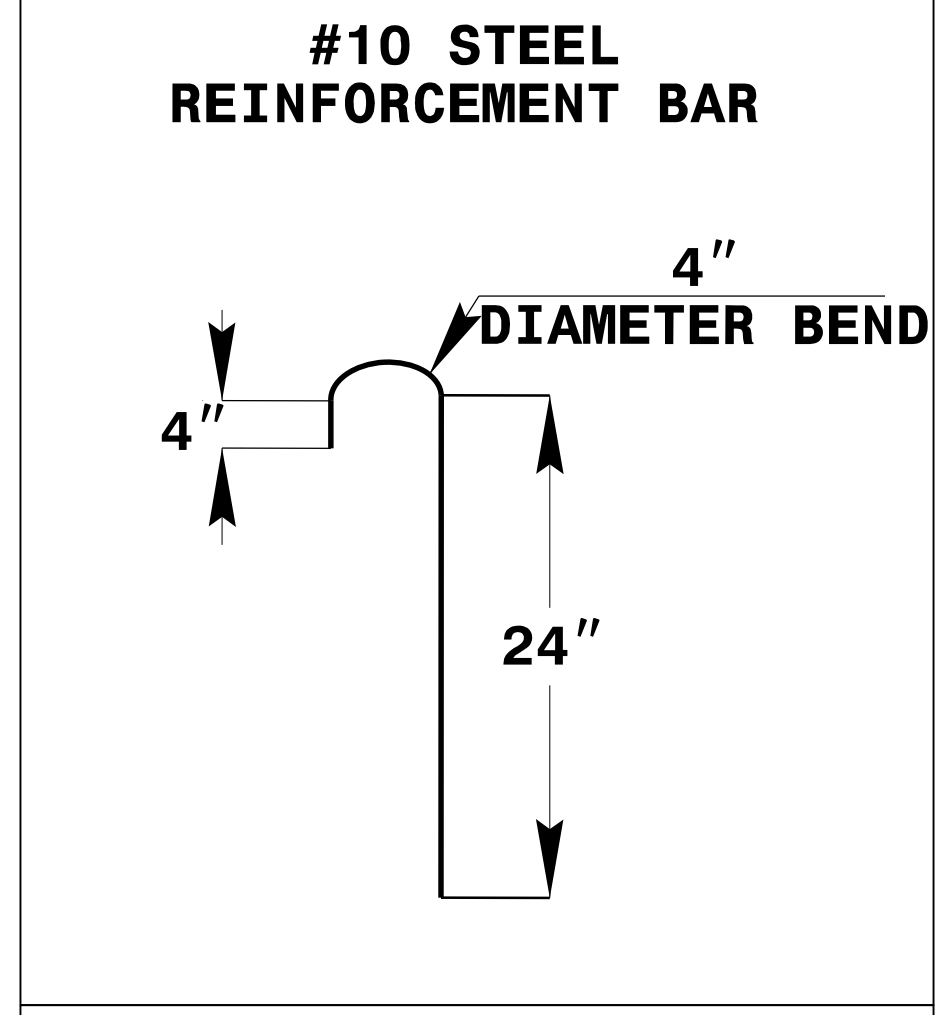
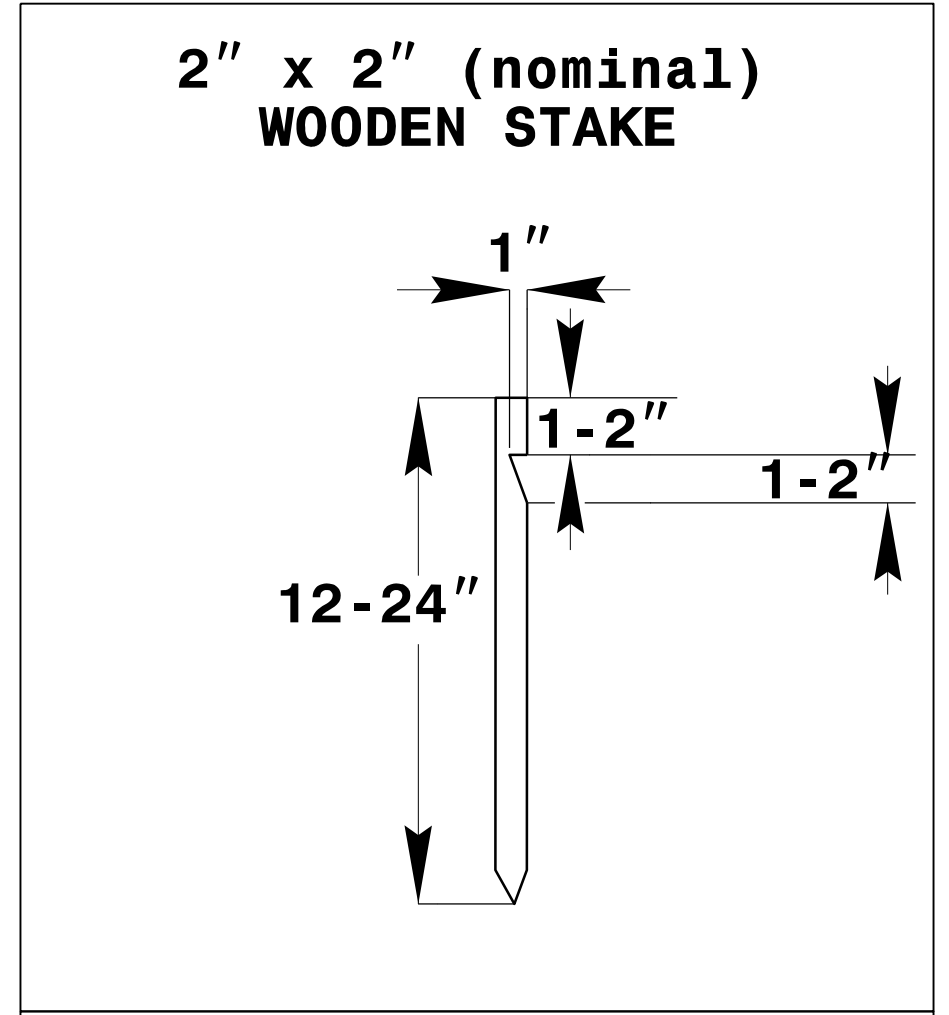
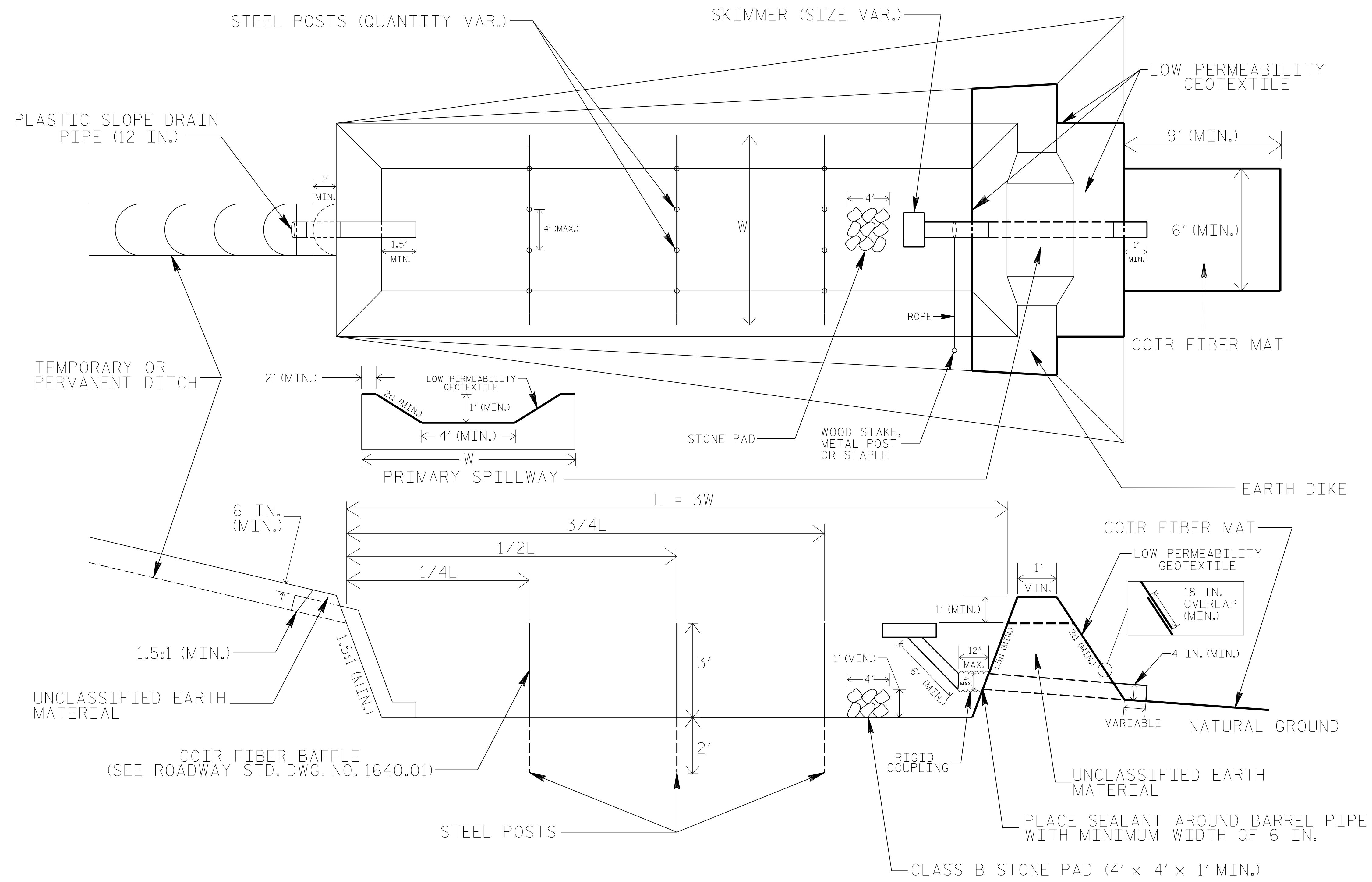
Designed by:
RENE REMY, CPESC, CPSWQ 3125
 NAME LEVEL III CERTIFICATION NO.

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 2018 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	

SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



COIR FIBER MAT ANCHOR OPTIONS

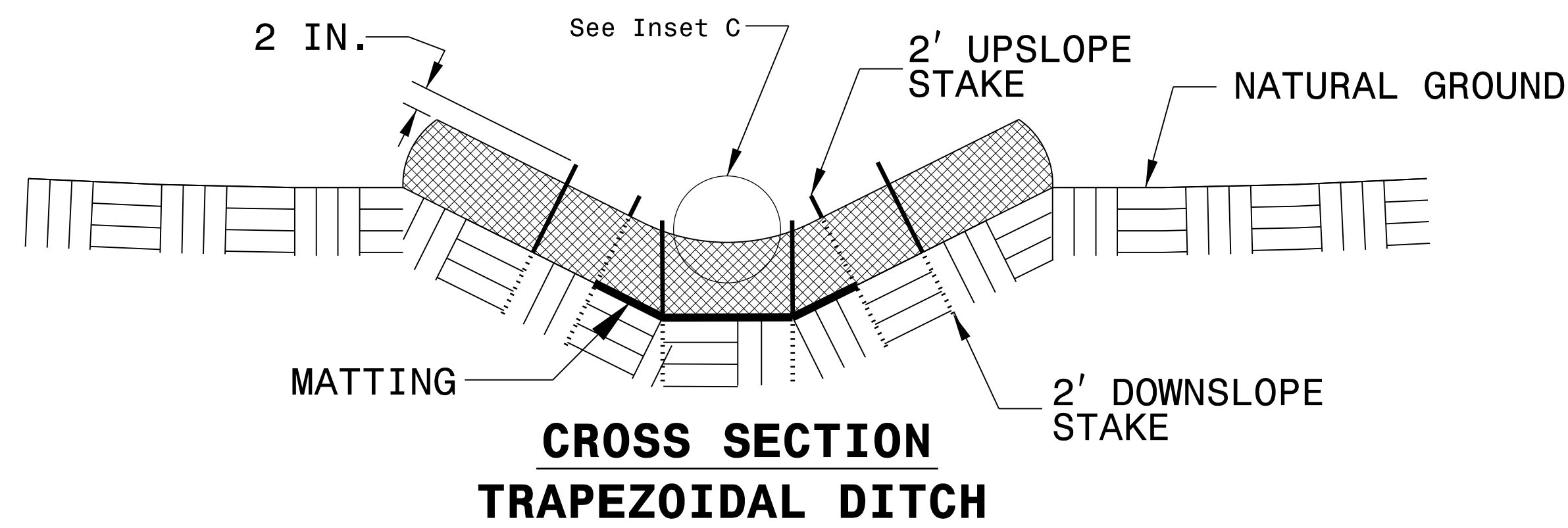
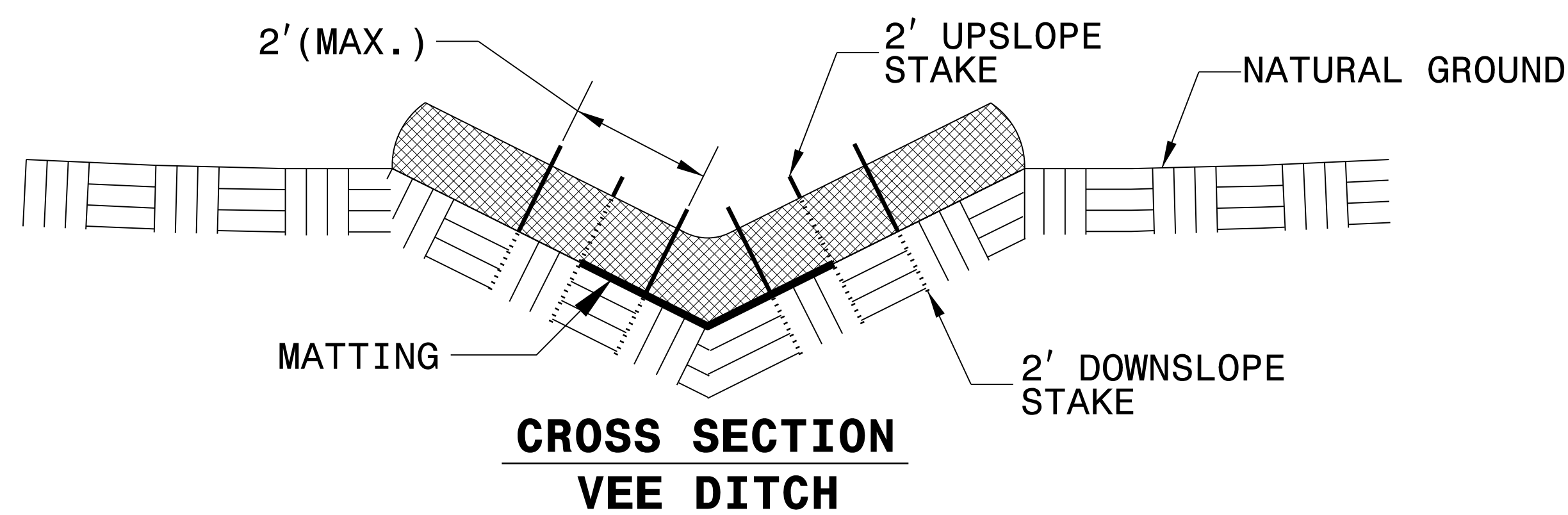
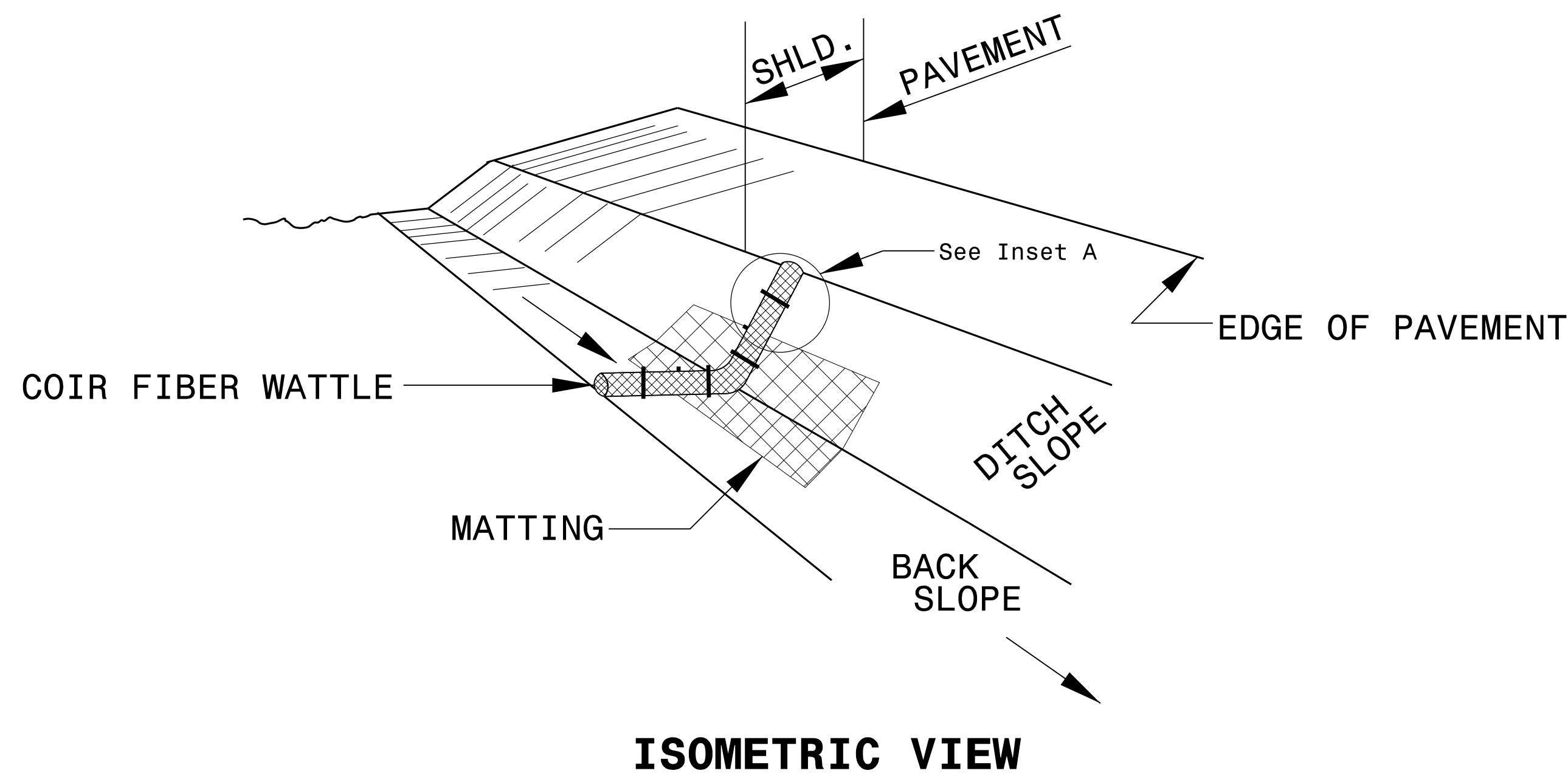
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.4$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

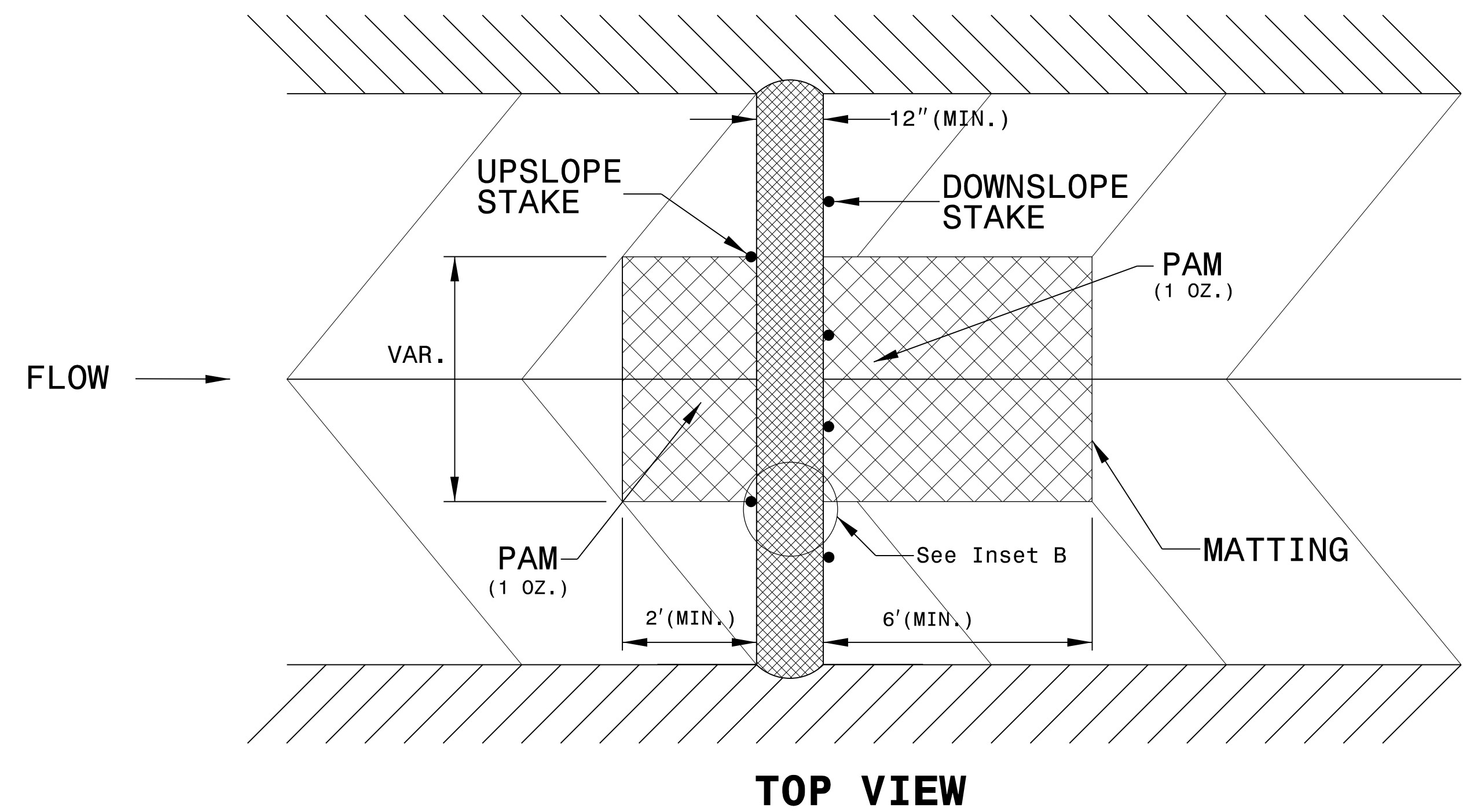
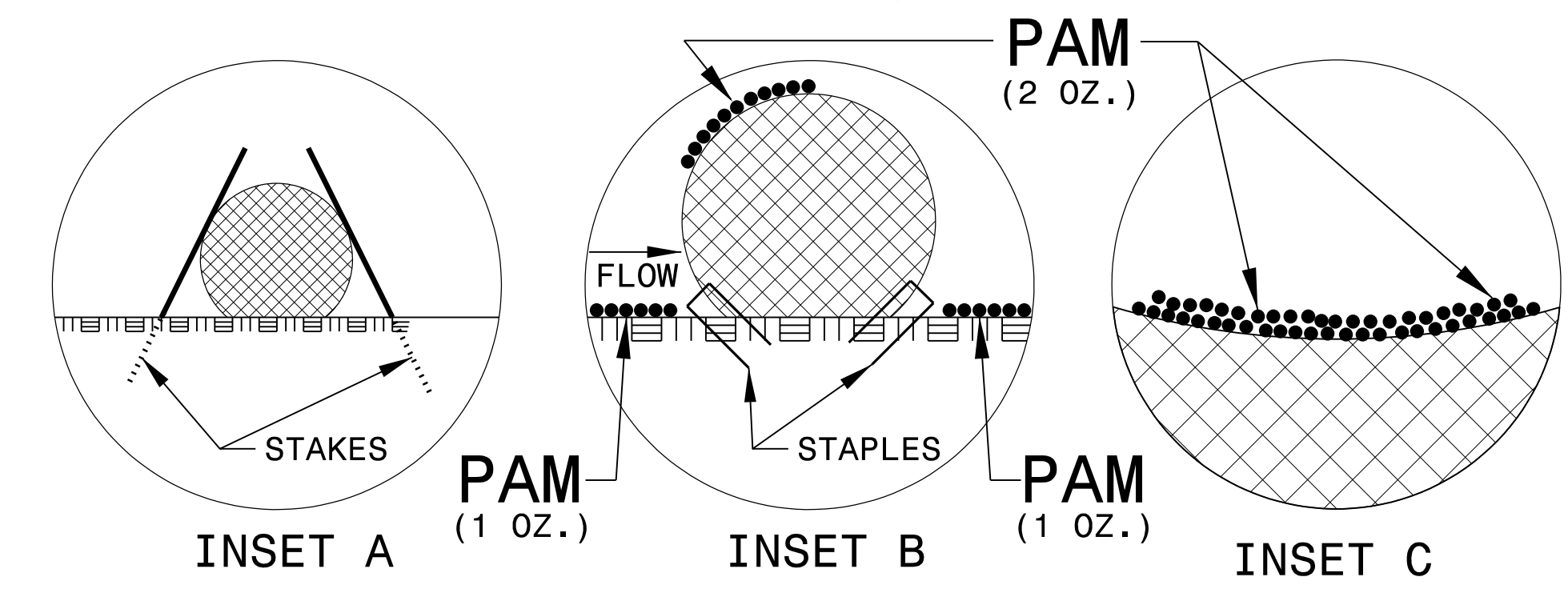
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COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

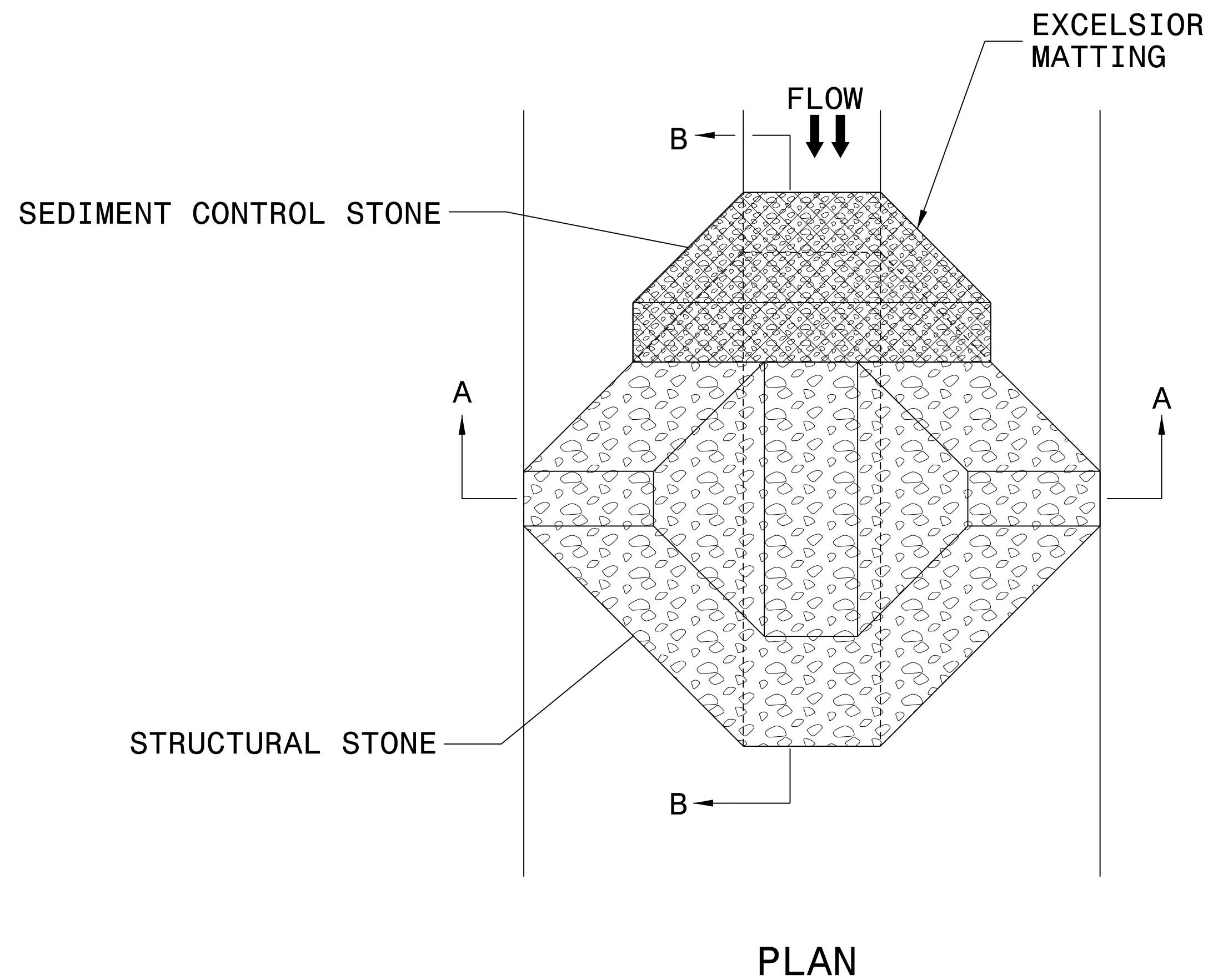


- NOTES:**
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
 - INSTALL A MINIMUM OF 2 UPSLOPE 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.



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



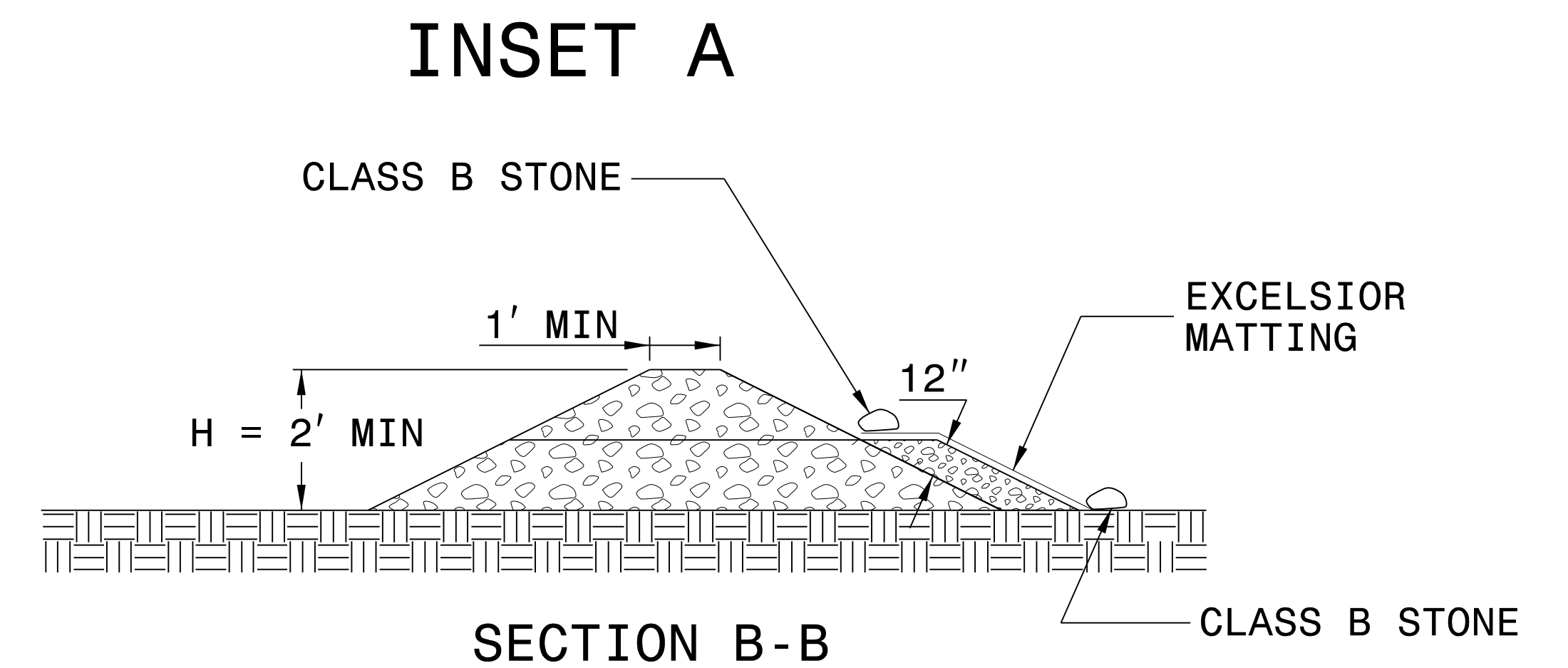
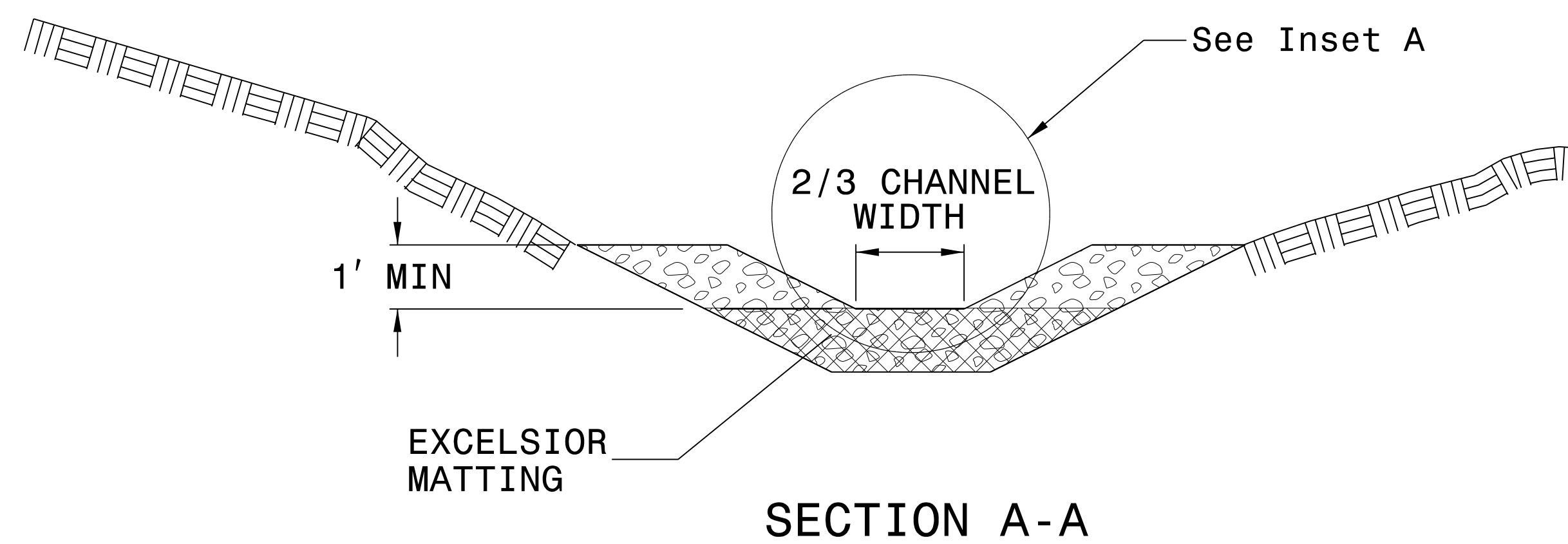
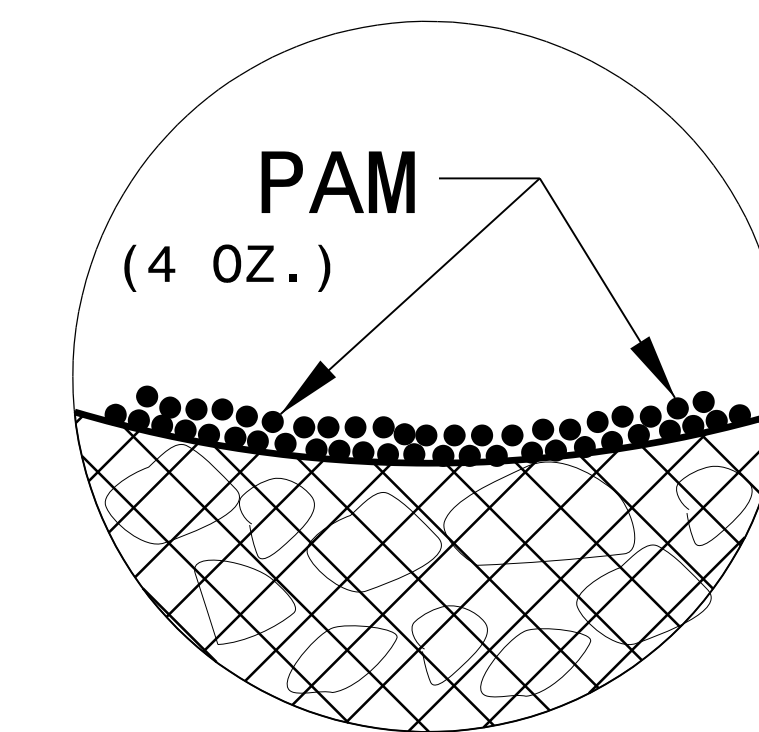
NOTES:

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.



NOT TO SCALE

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PROJECT REFERENCE NO.	SHEET NO.
B-5980	EC-03A
RW SHEET NO.	
<small>Prepared in the Office of:</small> AECOM	
<small>NC FIRM LICENSE No.F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27607 (919) 854-6200 • (919) 854-6259(FAX)</small>	

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 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.

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PROJECT REFERENCE NO.	SHEET NO.
B-5980	EC-04/CONST.4
RW SHEET NO.	

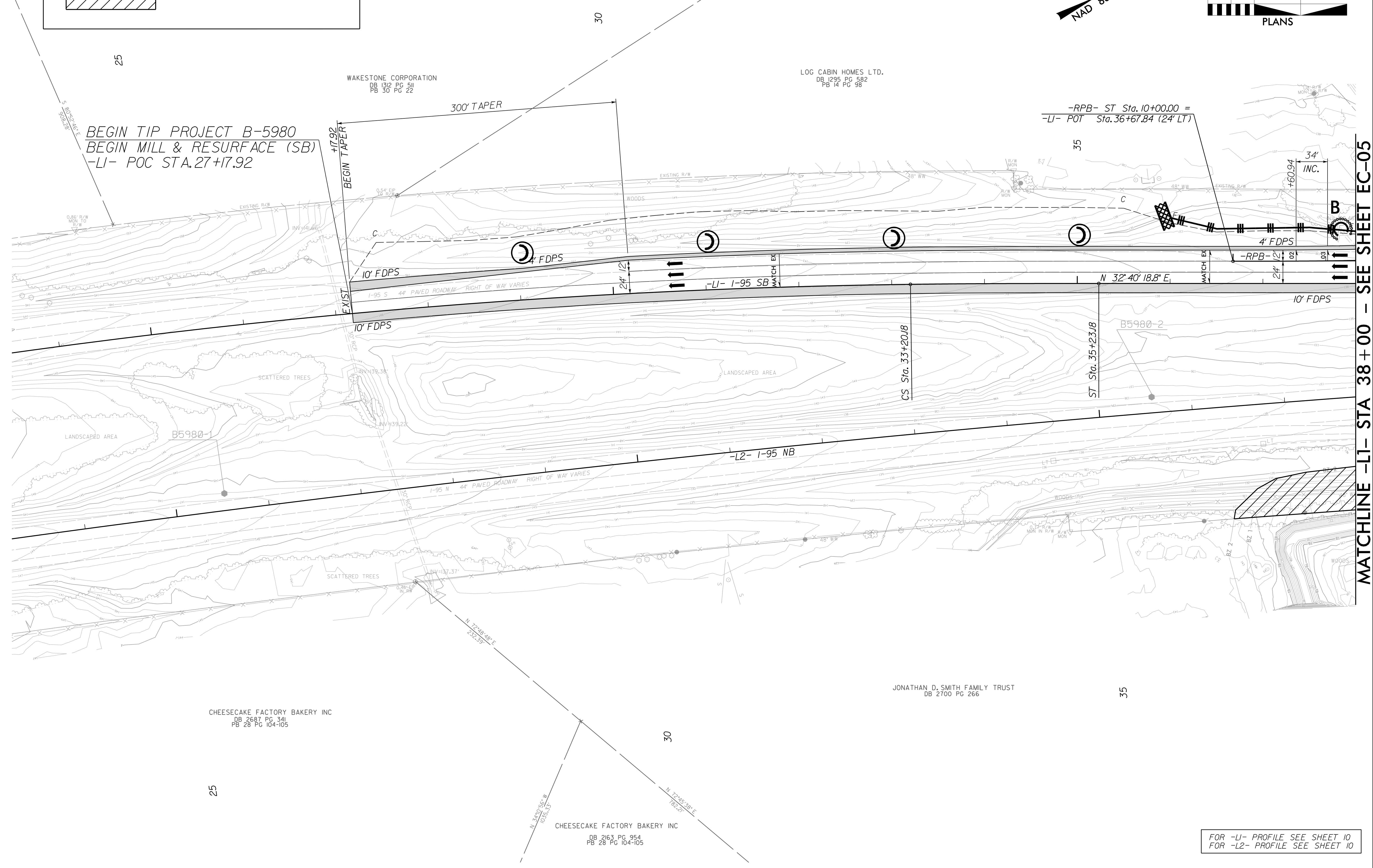
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 701 Corporate Center Dr., Suite 415
 Raleigh, NC 27607
 (919) 854-6200 • (919) 854-6259(FAX)



 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.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4



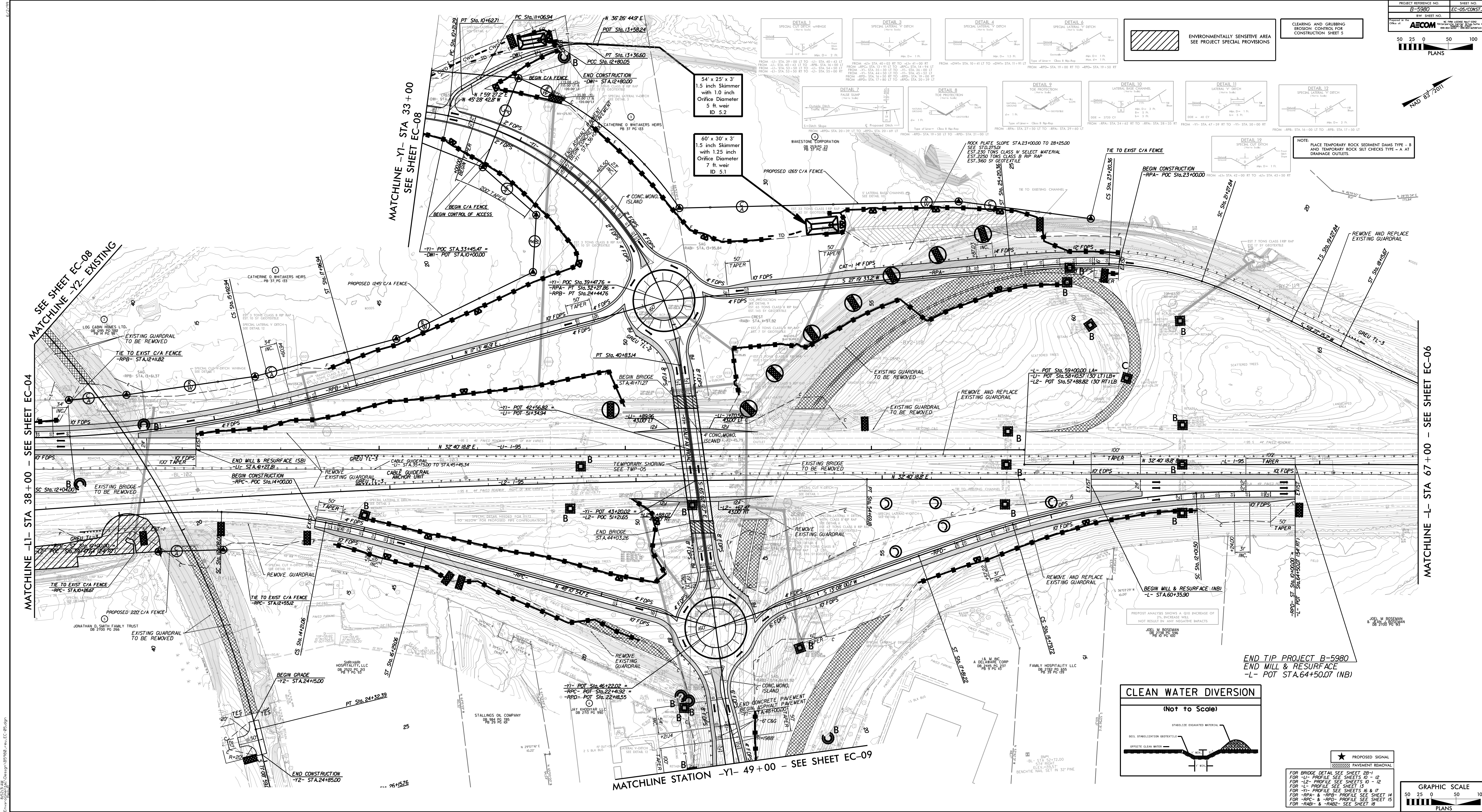
BEGIN TIP PROJECT B-5980
 BEGIN MILL & RESURFACE (SB)
 -LI- POC STA. 27+17.92

-RPB- ST Sta. 10+00.00 =
 -LI- POT Sta. 36+67.84 (24' LT)

MATCHLINE -LI- STA 38+00 - SEE SHEET EC-05

FOR -LI- PROFILE SEE SHEET 10
 FOR -L2- PROFILE SEE SHEET 10

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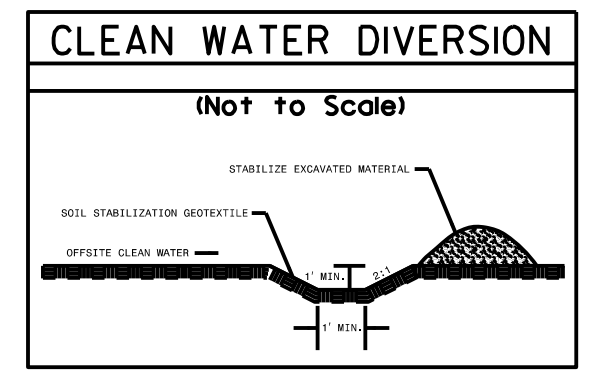
54' x 25' x 3'
 1.5 inch Skimmer
 with 1.0 inch
 Orifice Diameter
 5 ft. weir
 ID 5.2

60' x 30' x 3'
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 7 ft. weir
 ID 5.1

ENVIRONMENTALLY SENSITIVE AREA
 SEE PROJECT SPECIAL PROVISIONS

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 5

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



★ PROPOSED SIGNAL
 ○ PAYMENT REMOVAL
 FOR BRIDGE DETAIL SEE SHEET 2B-1
 FOR -L1- PROFILE SEE SHEETS 10 - 12
 FOR -L2- PROFILE SEE SHEETS 10 - 12
 FOR -L1- PROFILE SEE SHEETS 16 & 17
 FOR -RPA- & -RPB- PROFILE SEE SHEET 14
 FOR -RRC- & -RRD- PROFILE SEE SHEET 15
 FOR -RAB1- & -RAB2- SEE SHEET 18

MATCHLINE -L1- STA 38 + 00 - SEE SHEET EC-04

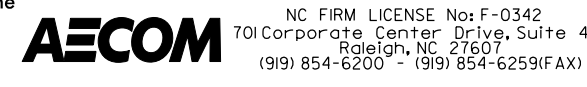
MATCHLINE -Y1- STA 33 + 00
 SEE SHEET EC-08

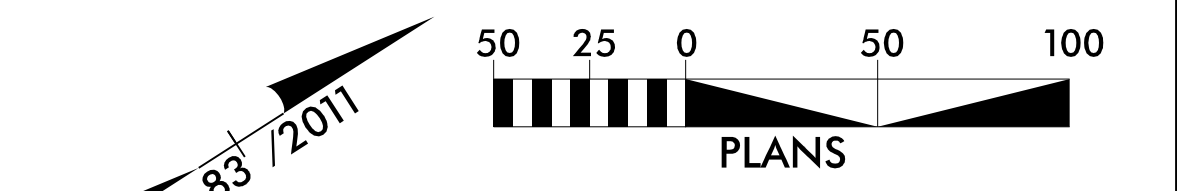
MATCHLINE STATION -Y1- 49 + 00 - SEE SHEET EC-09

MATCHLINE -L1- STA 67 + 00 - SEE SHEET EC-06

END TIP PROJECT B-5980
 END MILL & RESURFACE
 -L- POT STA. 64+50.07 (NB)

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PROJECT REFERENCE NO.	SHEET NO.
B-5980	EC-06/CONST.6
R/W SHEET NO.	
Prepared in the Office of:	
	
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MATCHLINE -L- STA 67+00 SEE SHEET EC-05



JOEL M BOSEMAN
& JEAN J BOSEMAN
DB 2700 PG 913

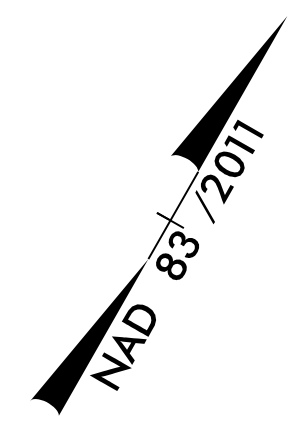
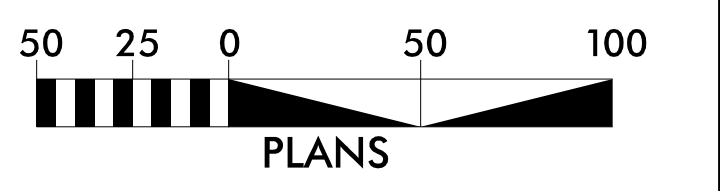
BRAVE QUEST CORP
DB 2683 PG 955
PB 31 PG 105
PB 22 PG 320

NOTE: SHEET PROVIDED FOR REFERENCE. PAVEMENT MARKING AND TRAFFIC CONTROL WORK ONLY WILL BE COMPLETED IN THIS AREA.
FOR -L- PROFILE SEE SHEET 13
FOR -RPA- PROFILE SEE SHEET 14

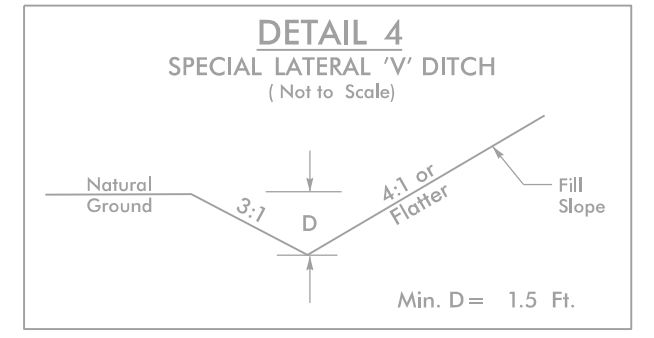
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PROJECT REFERENCE NO.	SHEET NO.
B-5980	EC-07/CONST.7
RW SHEET NO.	

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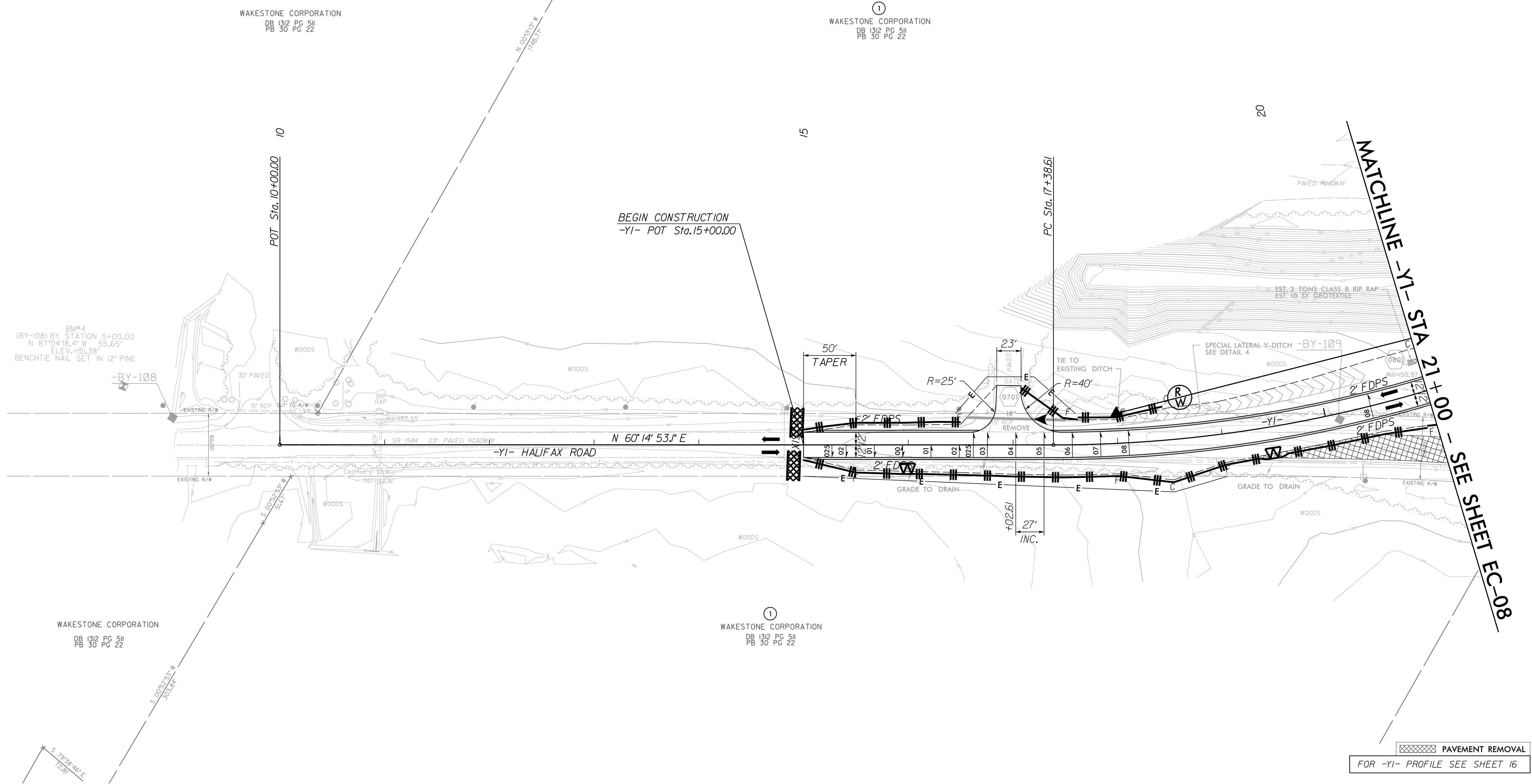
-Y1-
 PI Sta. 20+95.40
 $\Delta = 3^\circ 51' 37.8" (LT)$
 $D = 4' 35" 01.2"$
 $L = 695.09'$
 $T = 356.79'$
 $R = 1,250.00'$
 $e = 8\%$
 RUNOFF = 216'



FROM -Y1- STA. 18+00 LT TO -Y1- STA. 20+50 LT

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 7

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



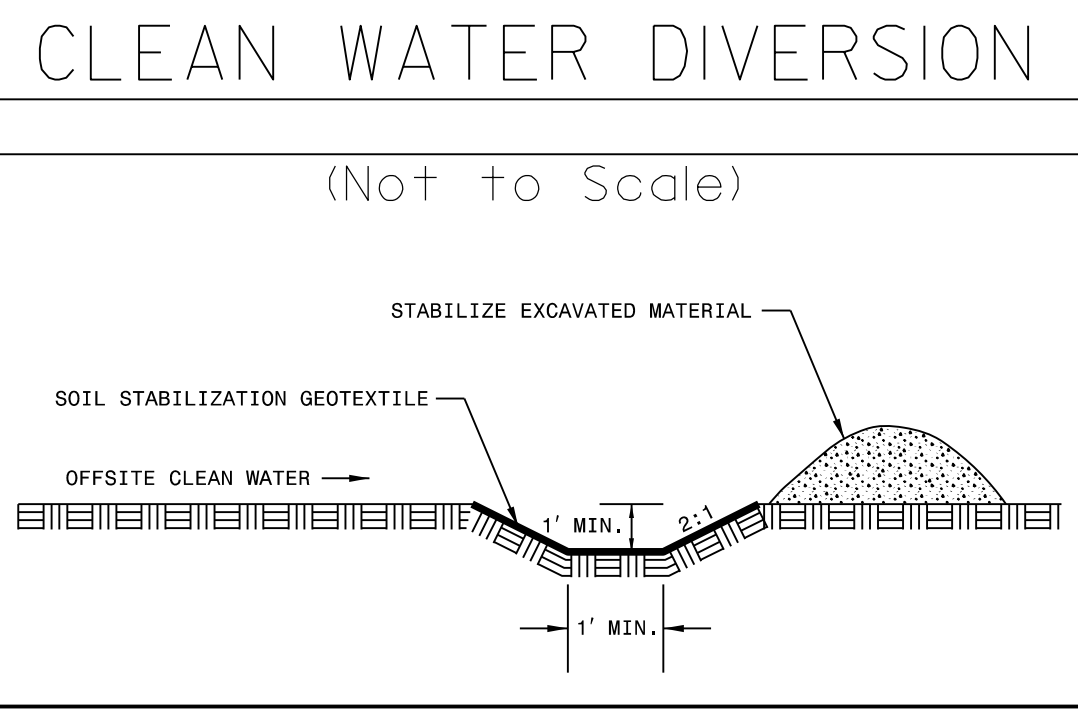
BM#4
 (BY-108) BY STATION 5+00.00
 N 87°04'18.4" W 55.65'
 ELEV.=151.38'
 BENCHTIE NAIL SET IN 12" PINE

WAKESTONE CORPORATION
 DB 1312 PG 511
 PB 30 PG 22

WAKESTONE CORPORATION
 DB 1312 PG 511
 PB 30 PG 22

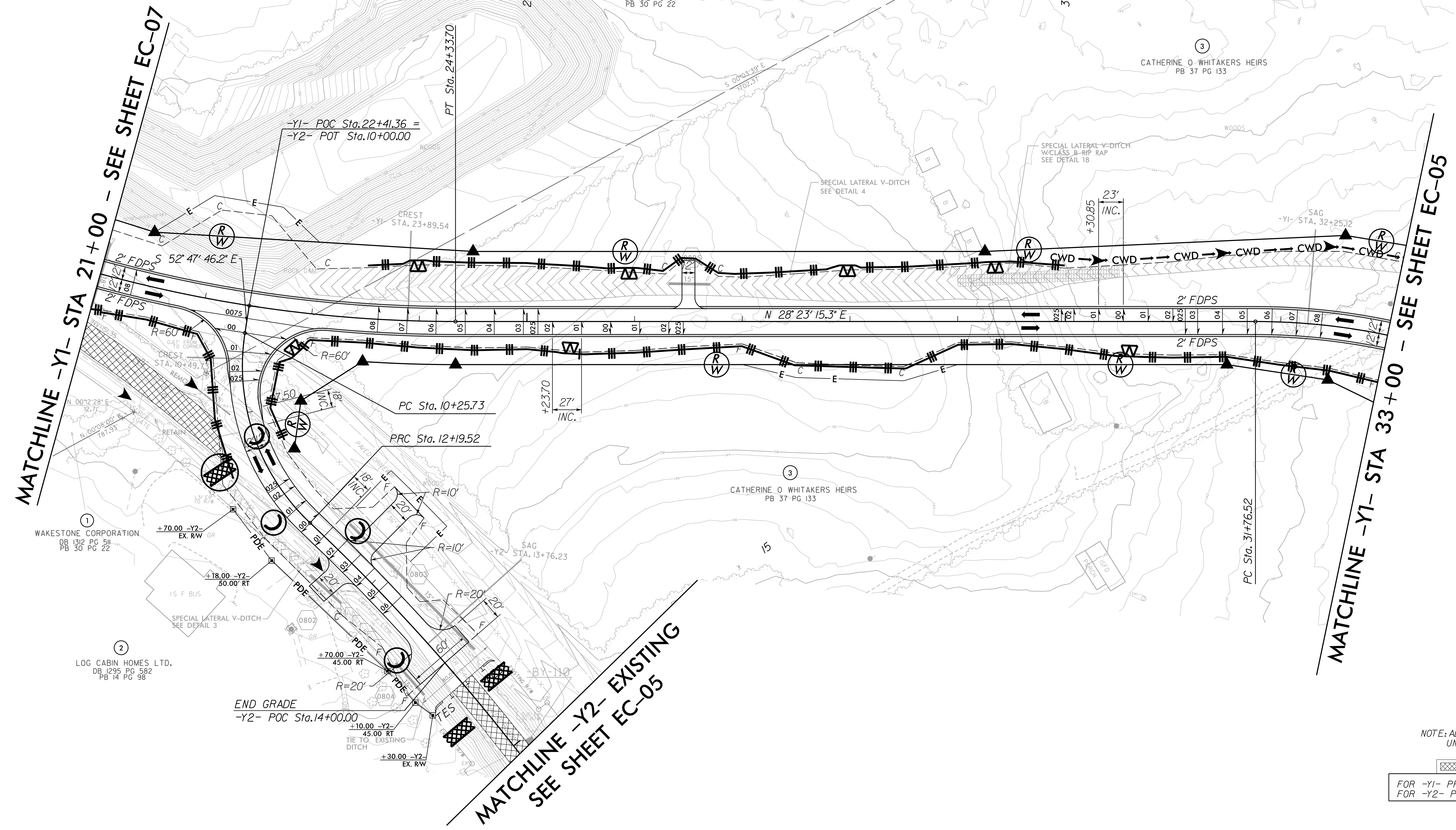
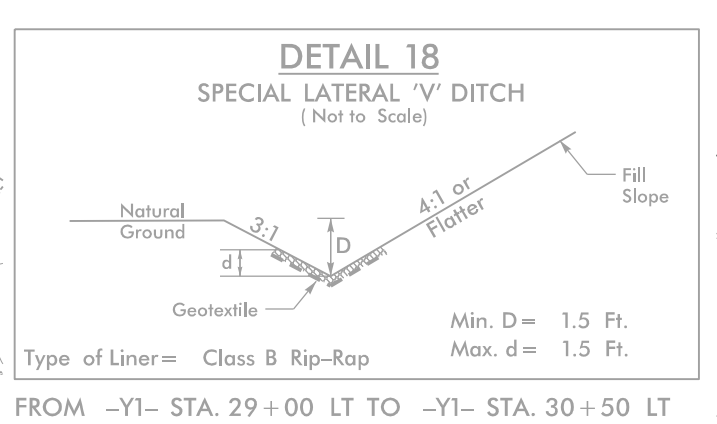
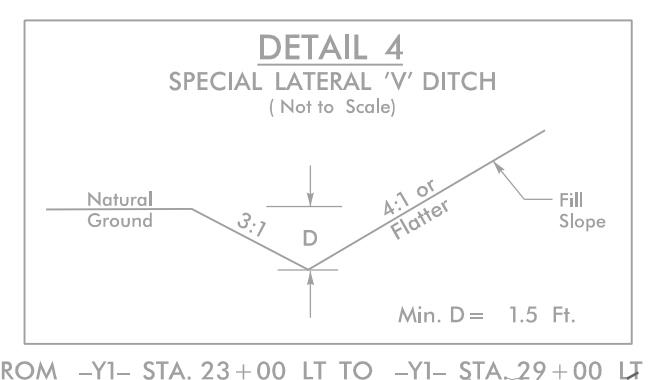
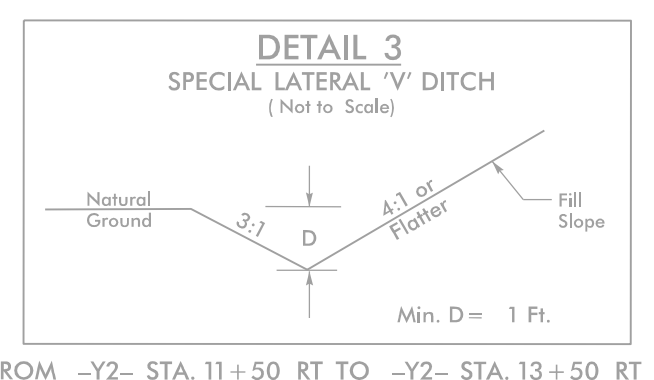
PAVEMENT REMOVAL
 FOR -Y1- PROFILE SEE SHEET 16

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**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: ALL DRIVEWAY RADII ARE 10'
UNLESS OTHERWISE NOTED

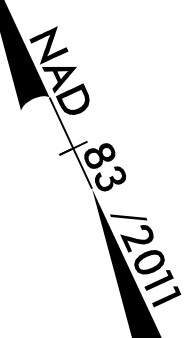
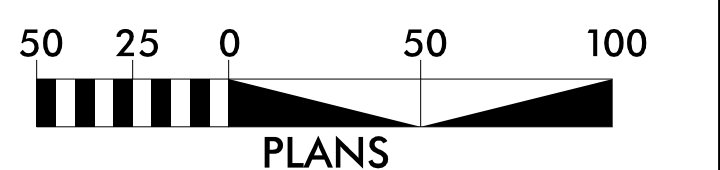
PAVEMENT REMOVAL

FOR -Y1- PROFILE SEE SHEET 16
FOR -Y2- PROFILE SEE SHEET 17

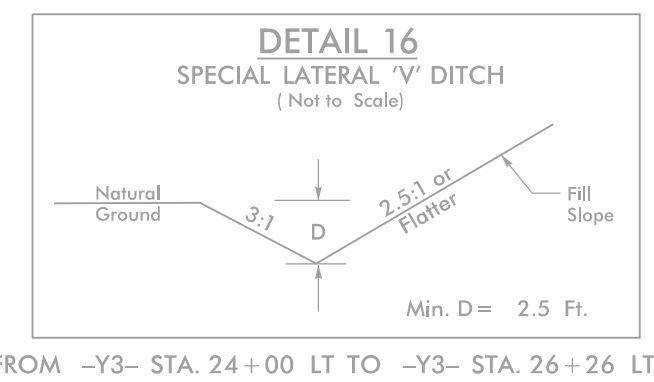
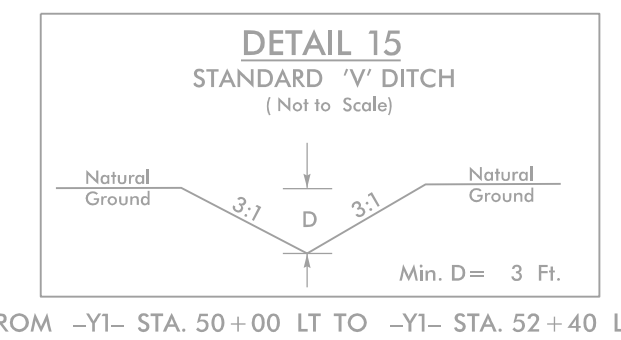
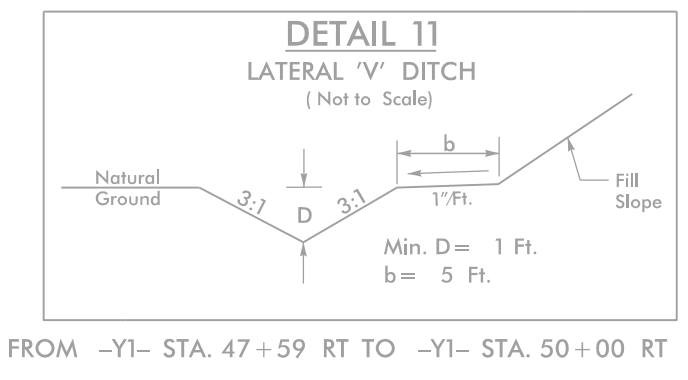
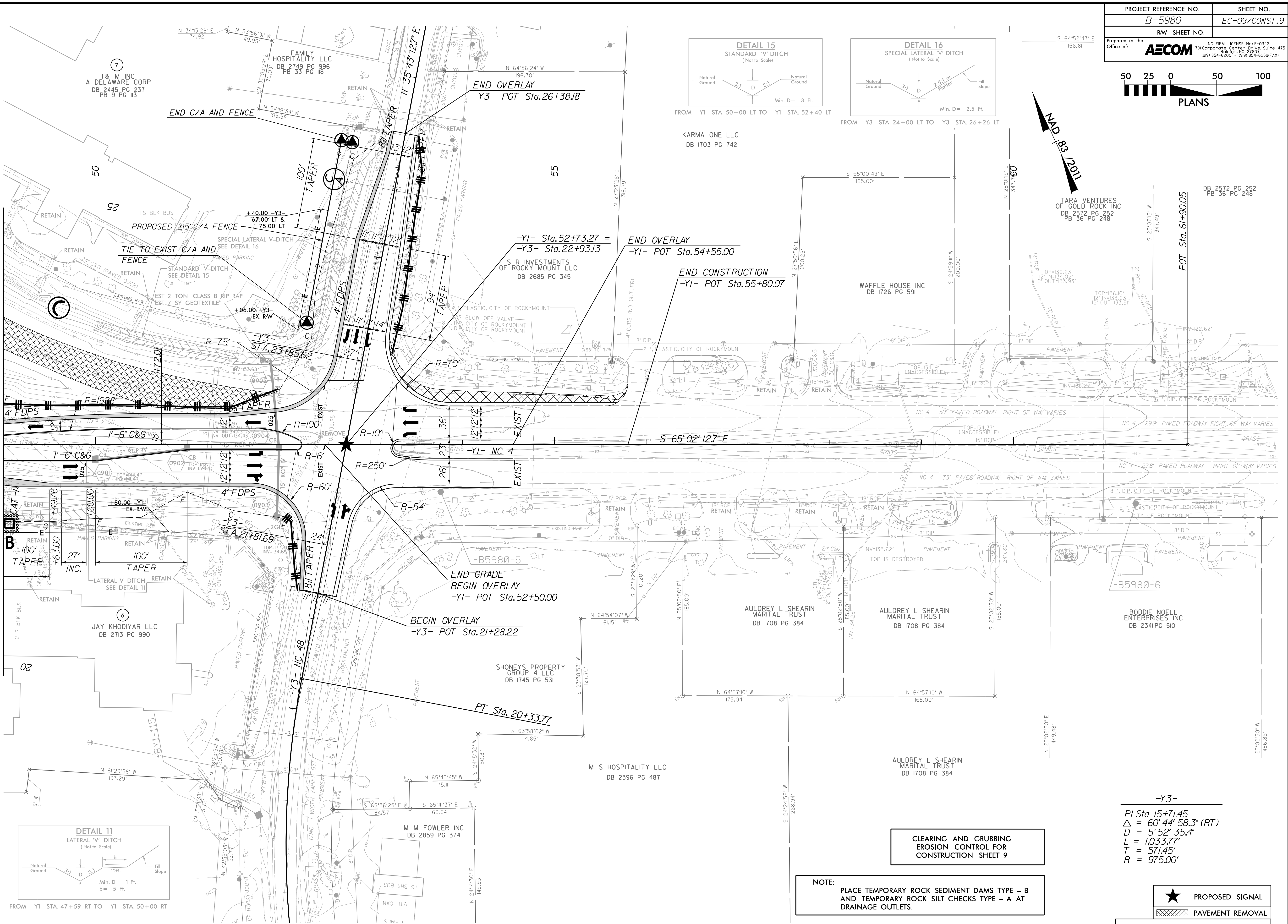
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PROJECT REFERENCE NO.	SHEET NO.
B-5980	EC-09/CONST.9
RW SHEET NO.	

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 Raleigh, NC 27601
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MATCHLINE -Y1- STA 49+00 - SEE SHEET EC-05



CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 9

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

-Y3-
 PI Sta 15+71.45
 $\Delta = 60' 44" 58.3" (RT)$
 $D = 5' 52" 35.4"$
 $L = 1,033.77'$
 $T = 571.45'$
 $R = 975.00'$

★ PROPOSED SIGNAL
 ▨ PAVEMENT REMOVAL
 FOR -Y1- PROFILE SEE SHEET 17

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-RPD_DET-

PI Sta 10+49.32	PI Sta 12+25.41	PI Sta 13+78.43
$\Delta = 37^{\circ}19'55.3"$ (LT)	$\Delta = 52^{\circ}52'48.3"$ (RT)	$\Delta = 31^{\circ}43'58.4"$ (LT)
D = 39'14'37.3"	D = 21'52'07.0"	D = 39'14'37.3"
L = 95.13'	L = 241.81'	L = 80.86'
T = 49.32'	T = 130.29'	T = 41.50'
R = 146.00'	R = 262.00'	R = 146.00'

-RPC_DET-

PI Sta 11+43.39
$\Delta = 58^{\circ}53'29.7"$ (RT)
D = 22'33'26.6"
L = 261.07'
T = 143.39'
R = 254.00'

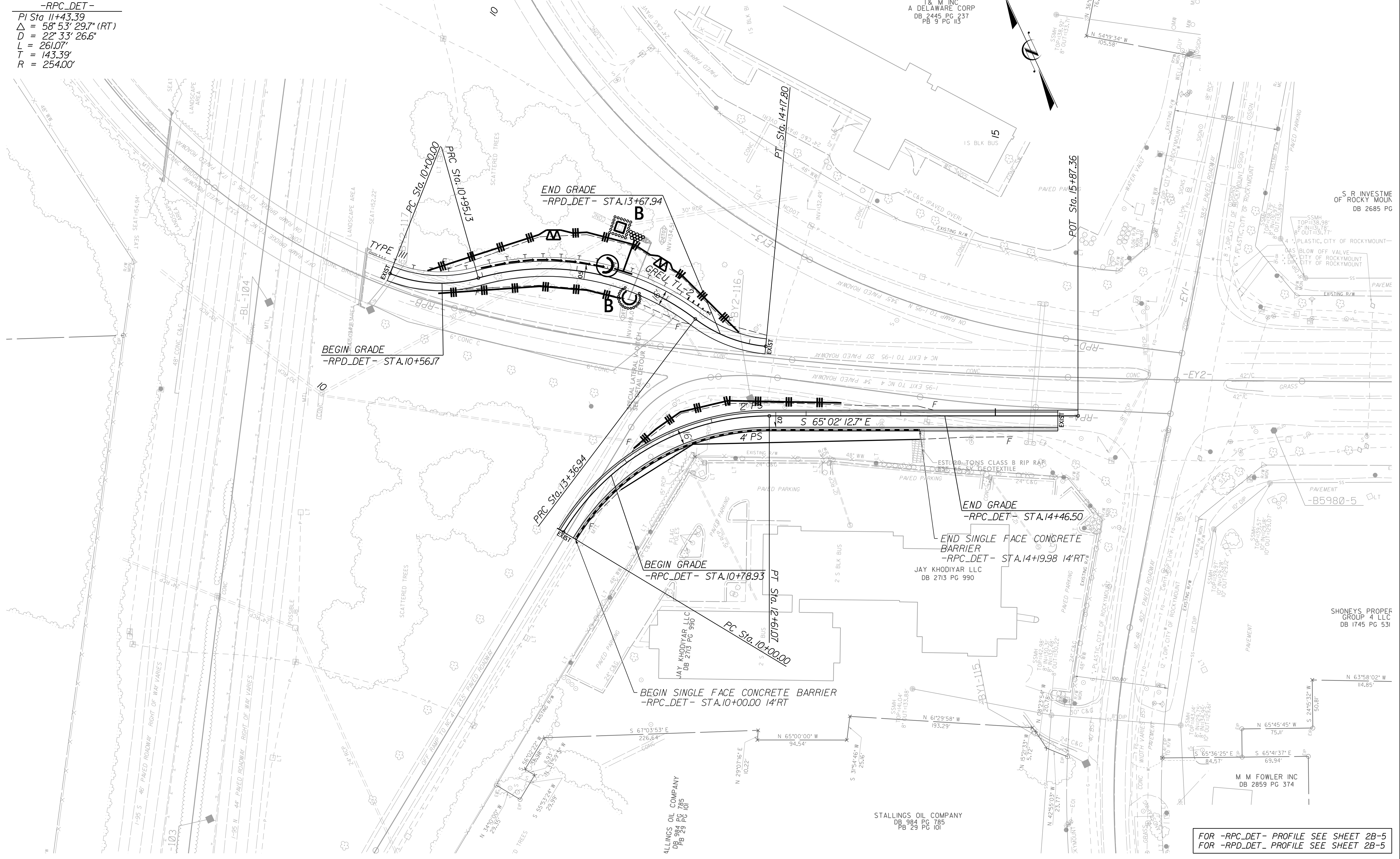
-RPC_DET-
-RPD_DET-

DETOUR

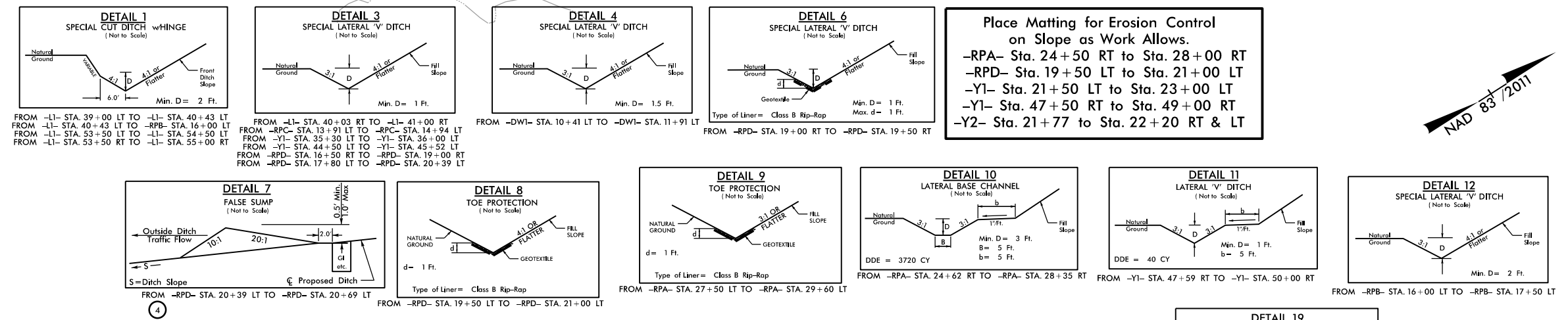
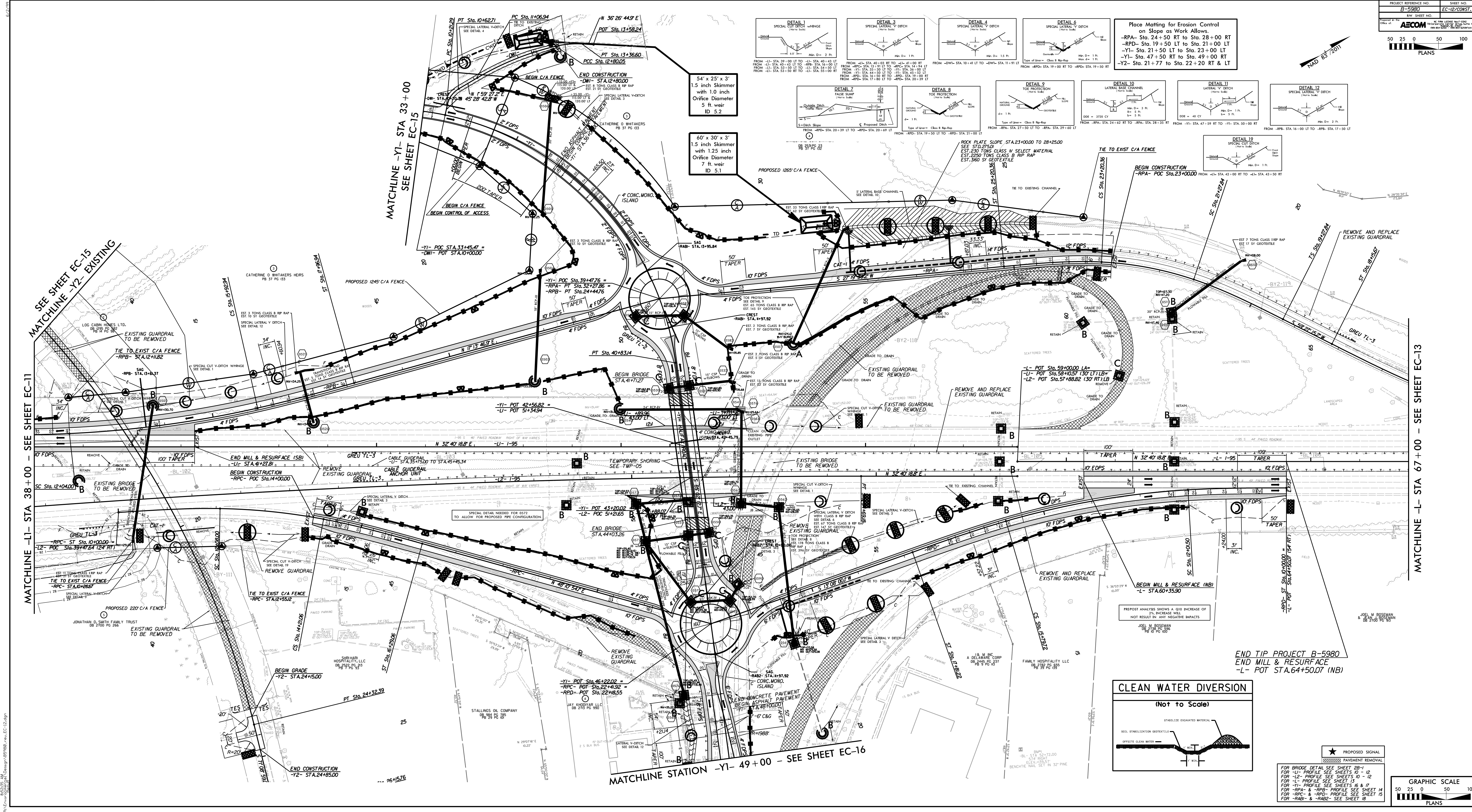
PROJECT REFERENCE NO.	SHEET NO.
B-5980	EC-10/CONST2B-4
RW SHEET NO.	
Prepared by the Office of: AECOM <small>NC FIRM LICENSE No. F-0342 701 Corporate Center Blvd, Suite 415 Raleigh, NC 27603 (919) 854-6200 • (919) 854-6259(FAX)</small>	

50 25 0 50 100

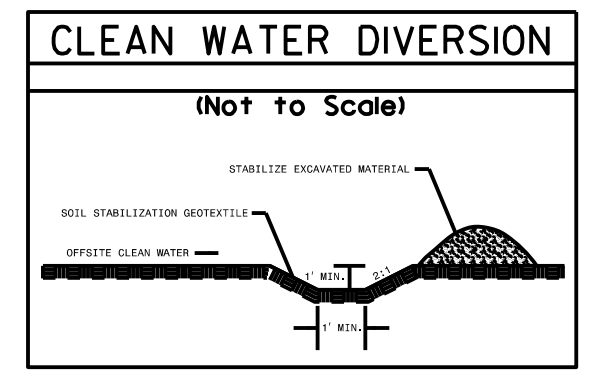
 PLANS



FOR -RPC_DET- PROFILE SEE SHEET 2B-5
 FOR -RPD_DET- PROFILE SEE SHEET 2B-5



Place Matting for Erosion Control on Slope as Work Allows.
 -RPA- Sta. 24+50 RT to Sta. 28+00 RT
 -RPD- Sta. 19+50 LT to Sta. 21+00 LT
 -Y1- Sta. 21+50 LT to Sta. 23+00 LT
 -Y1- Sta. 47+50 RT to Sta. 49+00 RT
 -Y2- Sta. 21+77 to Sta. 22+20 RT & LT



END TIP PROJECT B-5980
 END MILL & RESURFACE
 -L- POT STA.64+50.07 (NB)

FOR BRIDGE DETAIL SEE SHEET 2B-1
 FOR -Y1- PROFILE SEE SHEETS 10 - 12
 FOR -L- PROFILE SEE SHEETS 10 - 12
 FOR -Y1- PROFILE SEE SHEETS 16 & 17
 FOR -RPA- & -RPB- PROFILE SEE SHEET 14
 FOR -RRC- & -RPD- PROFILE SEE SHEET 15
 FOR -RAB- & -RAB2- SEE SHEET 18

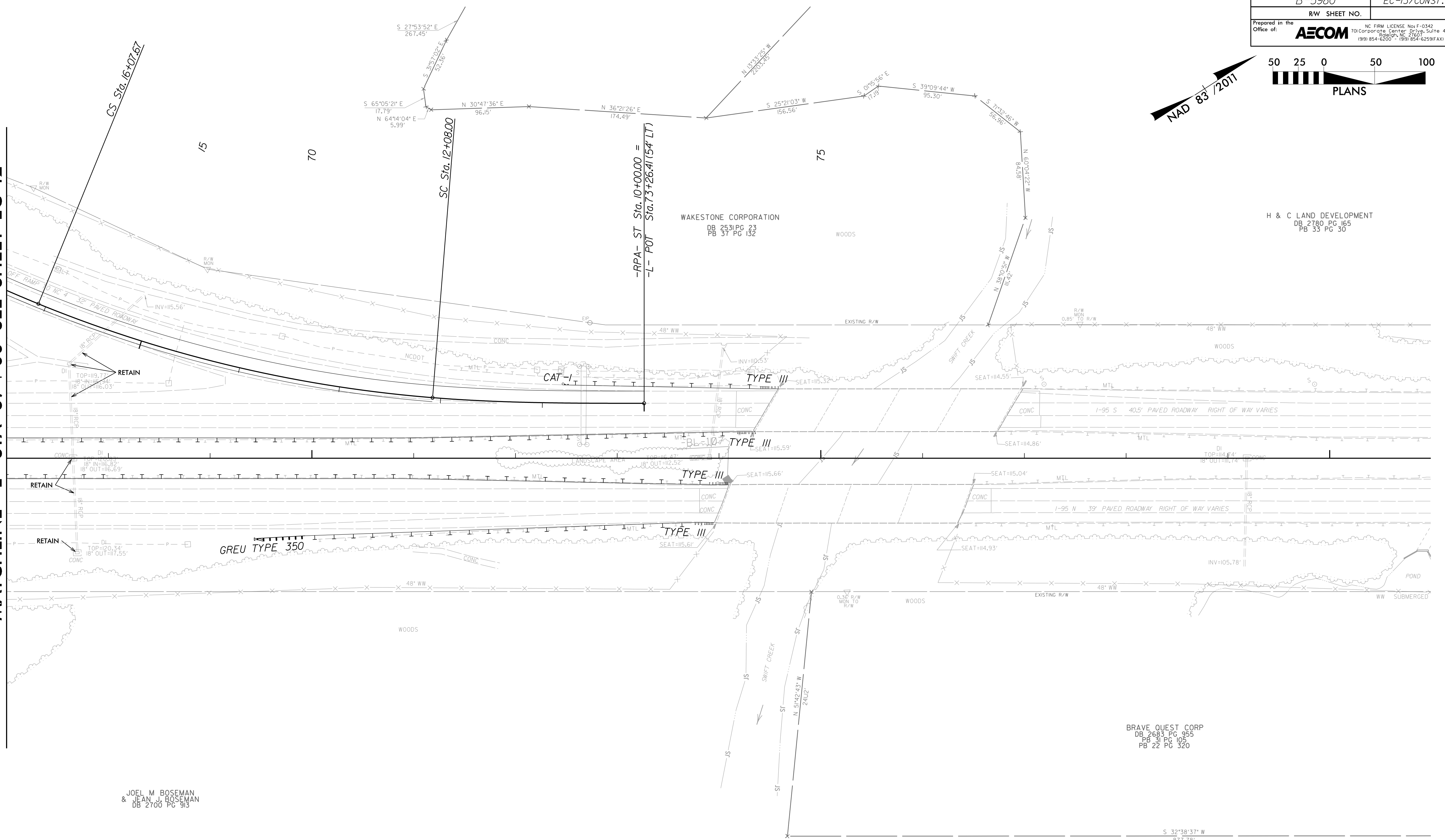
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
B-5980	EC-13/CONST.6
R/W SHEET NO.	

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 Raleigh, NC 27607
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MATCHLINE -L- STA 67+00 SEE SHEET EC-12



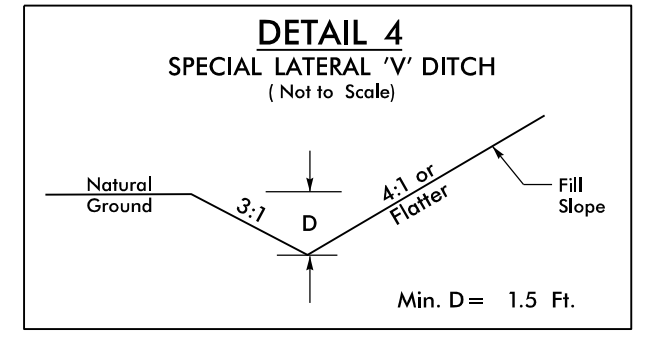
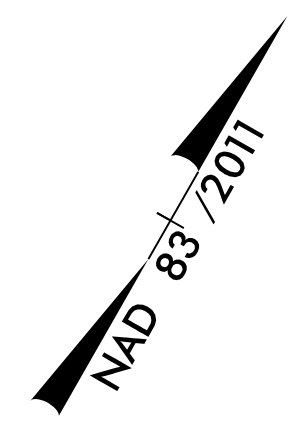
JOEL M BOSEMAN & JEAN J BOSEMAN DB 2700 PG 913

NOTE: SHEET PROVIDED FOR REFERENCE. PAVEMENT MARKING AND TRAFFIC CONTROL WORK ONLY WILL BE COMPLETED IN THIS AREA.

FOR -L- PROFILE SEE SHEET 13
 FOR -RPA- PROFILE SEE SHEET 14

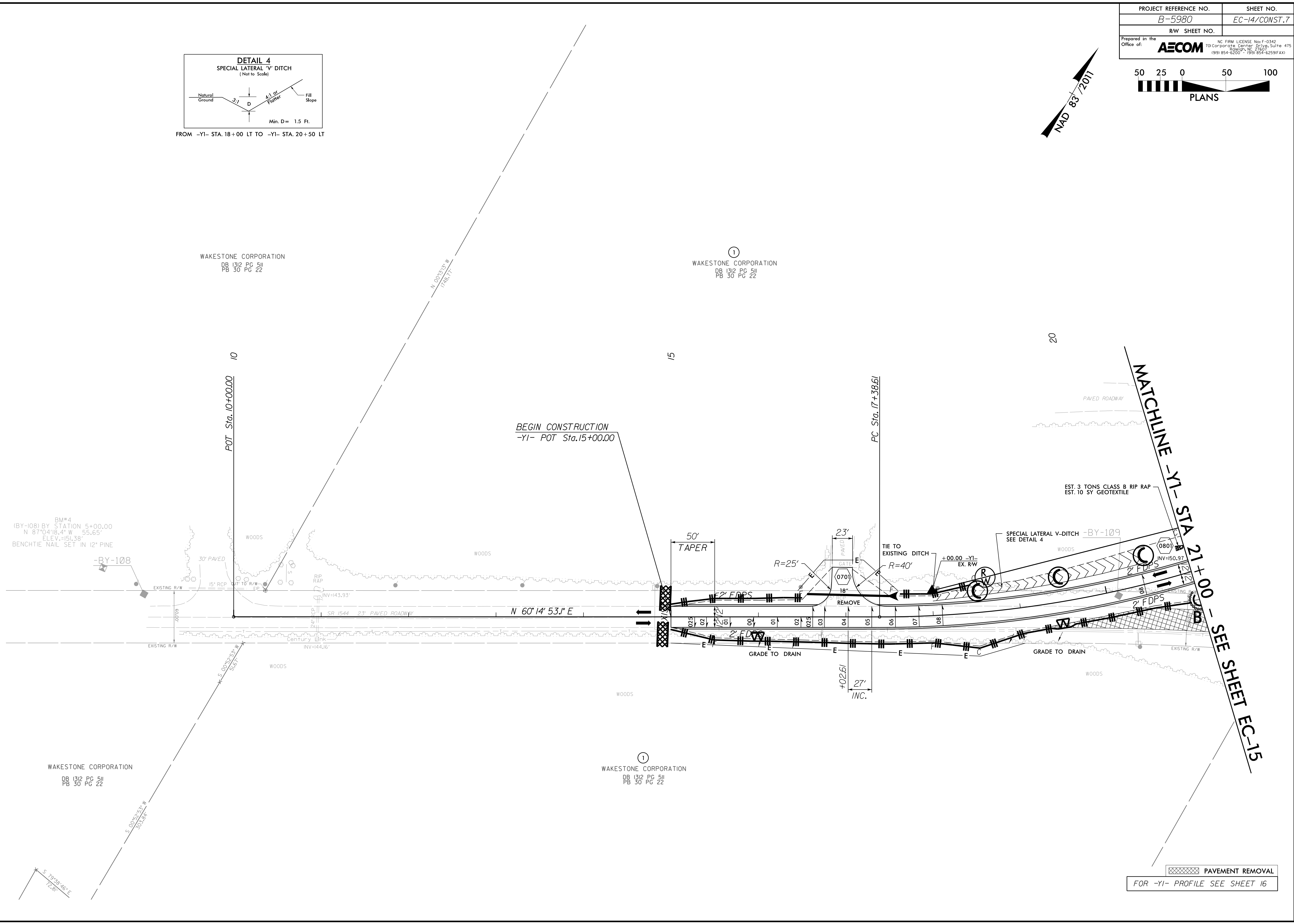
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PROJECT REFERENCE NO.	SHEET NO.
B-5980	EC-14/CONST.7
R/W SHEET NO.	
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FROM -YI- STA. 18+00 LT TO -YI- STA. 20+50 LT

5/14/99
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PAVEMENT REMOVAL
FOR -YI- PROFILE SEE SHEET 16

