

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2810C	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**TIP PROJECT: U-2810C**

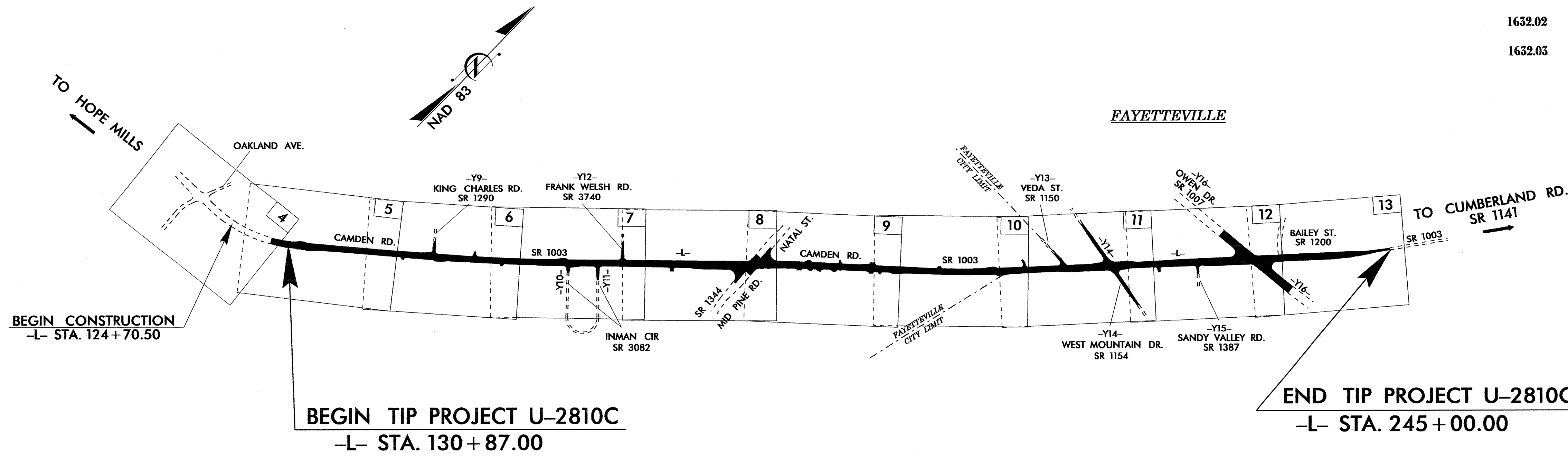
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL  
**CUMBERLAND COUNTY**

**LOCATION: SR 1003 (CAMDEN ROAD) FROM EAST OF OAKLAND AVENUE  
TO NORTH OF SR 1007 (OWEN DRIVE)**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, WIDENING, RESURFACING,  
CURB & GUTTER, AND SIGNALS**

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	△△△△△
1622.01	Temporary Berms and Slope Drains	—
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	⊓
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊓
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.

**GRAPHIC SCALE**

0  
PLANS

0  
PROFILE (HORIZONTAL)

0  
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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	

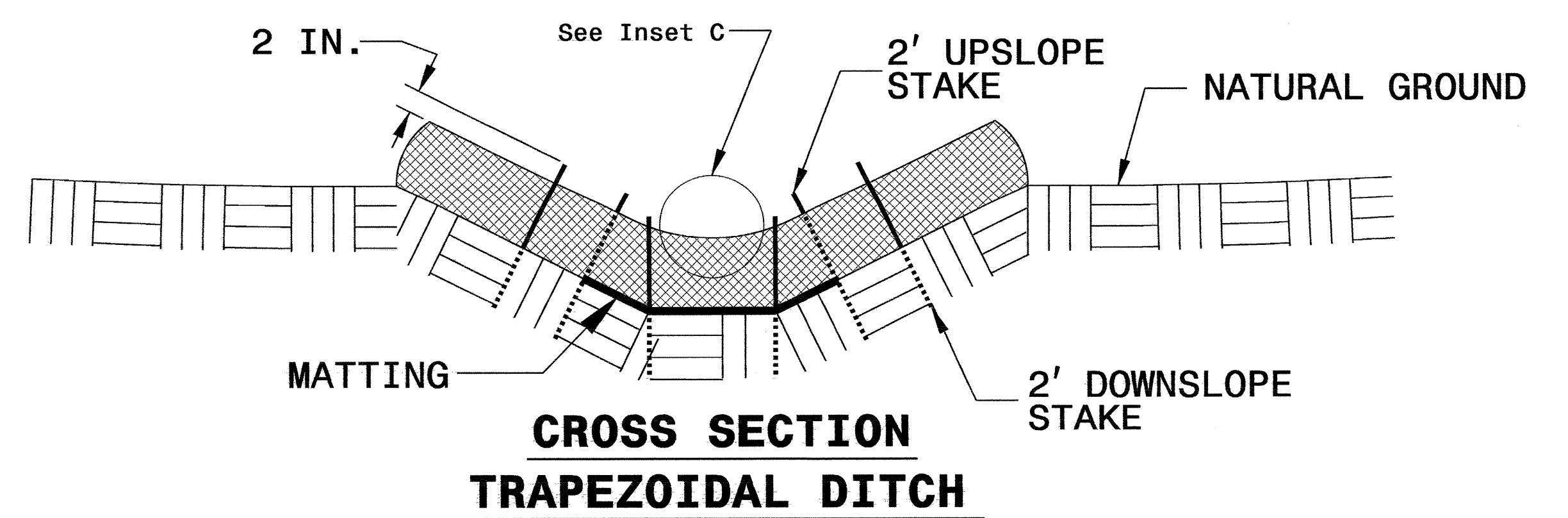
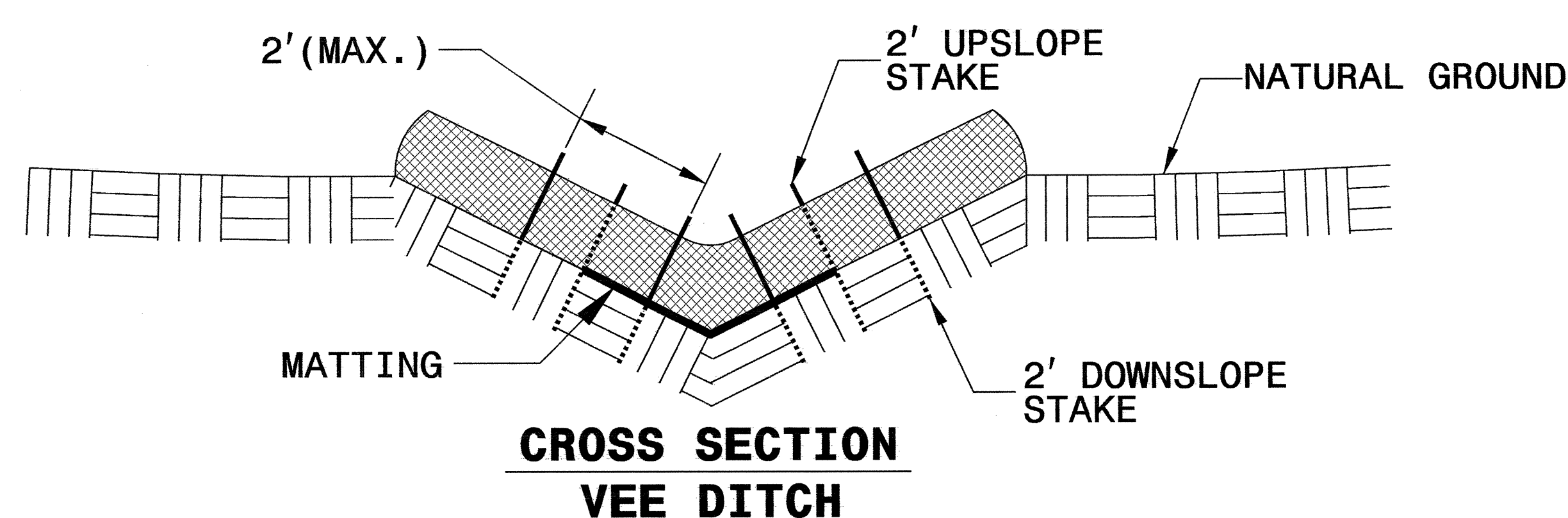
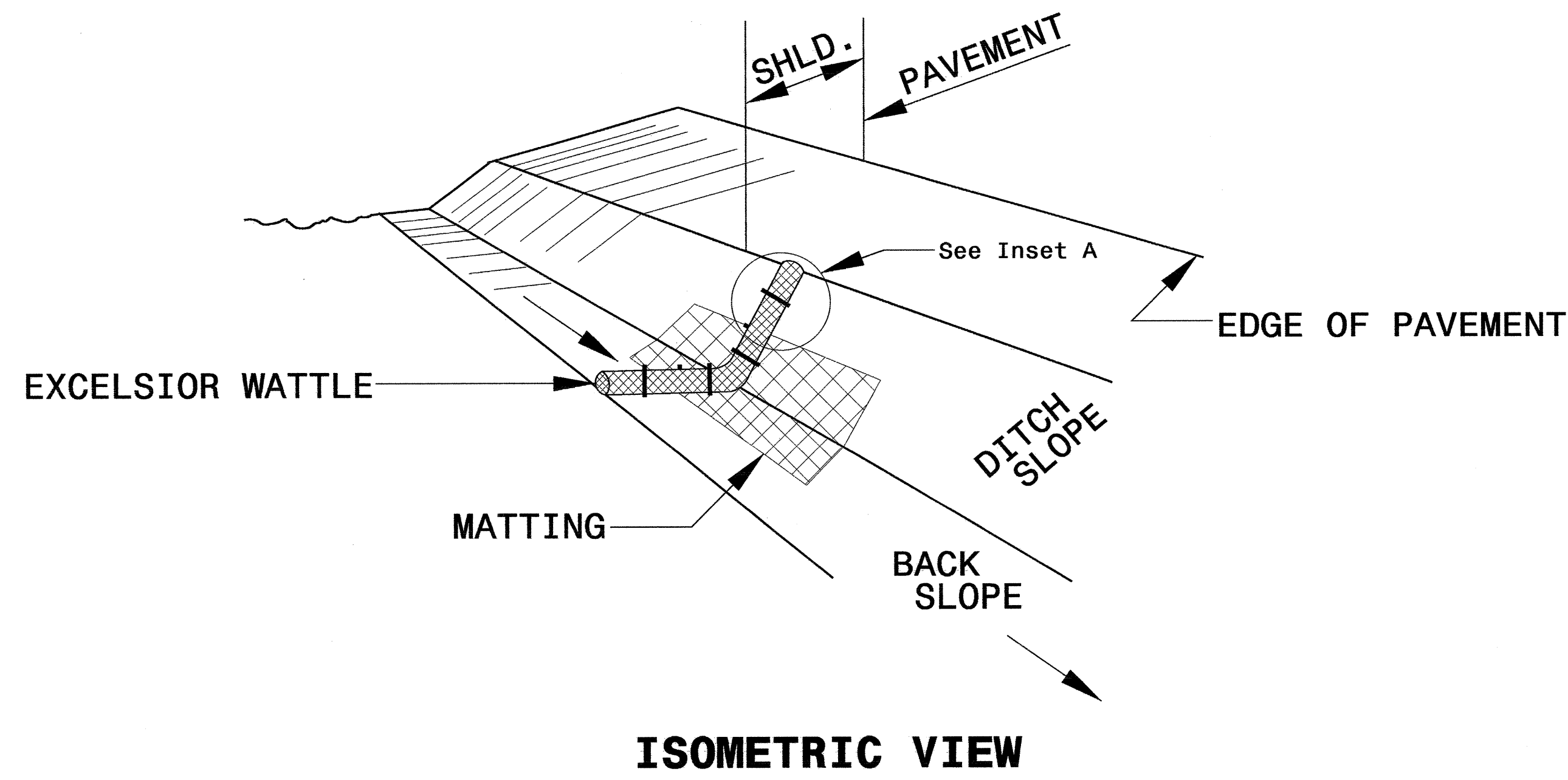
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jacobson



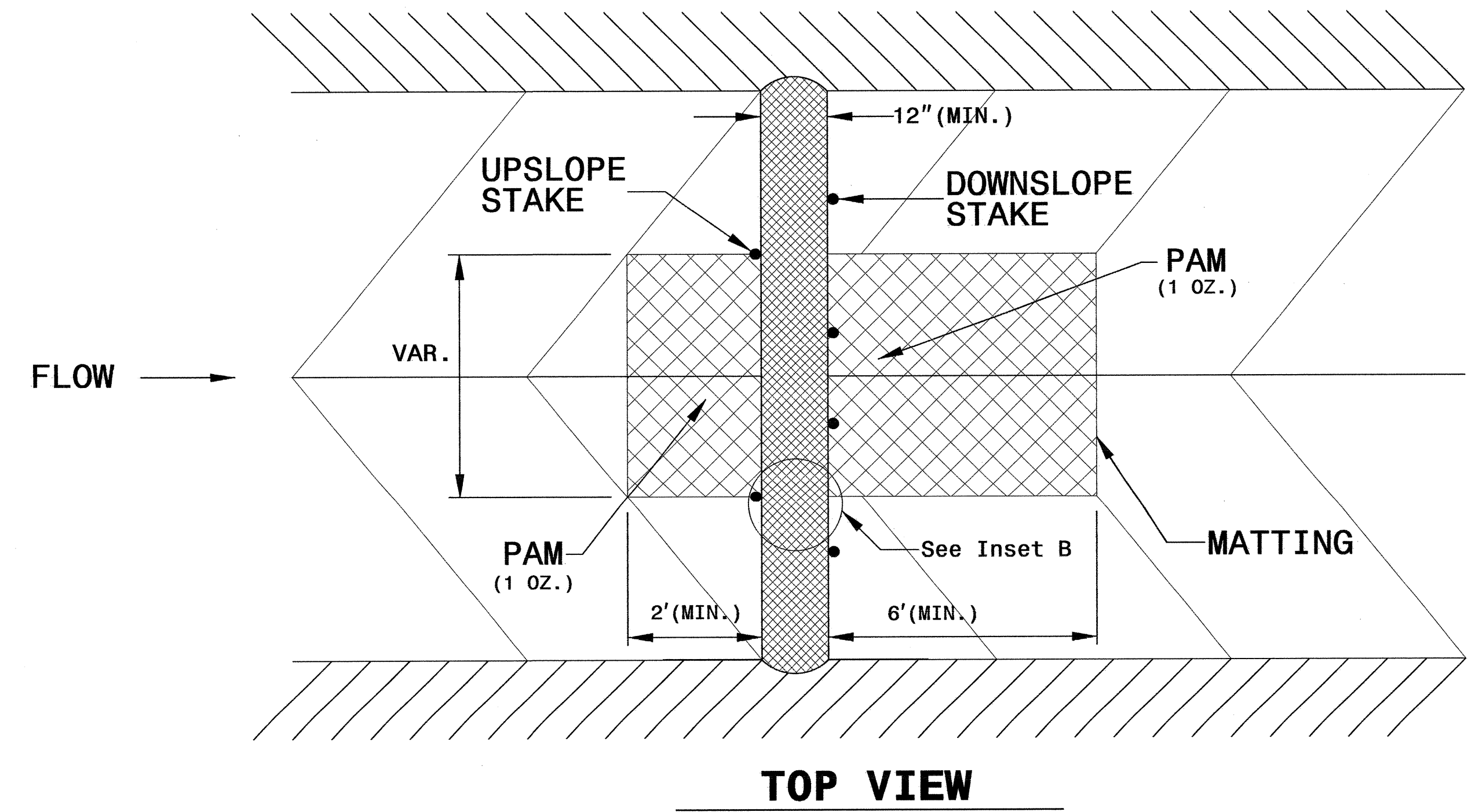
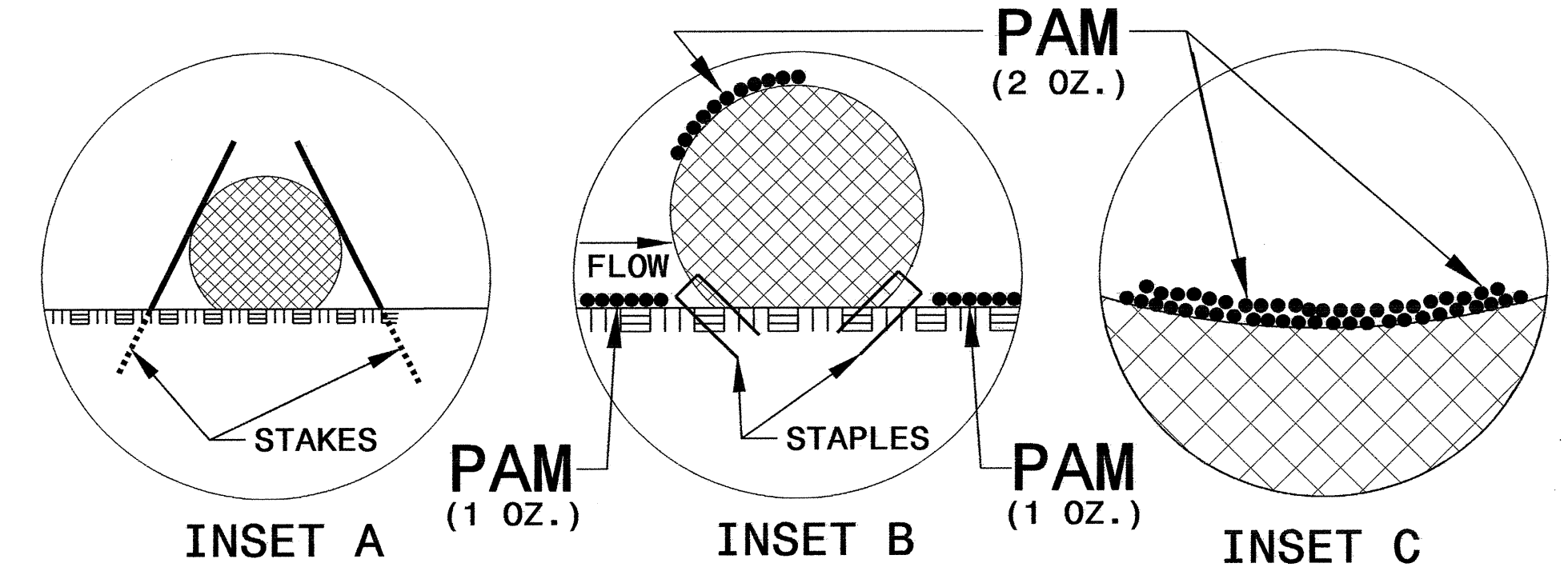


PROJECT REFERENCE NO. U-2810C	SHEET NO. EC-2A
RW SHEET NO.	
DESIGNED BY	CHECKED BY

# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

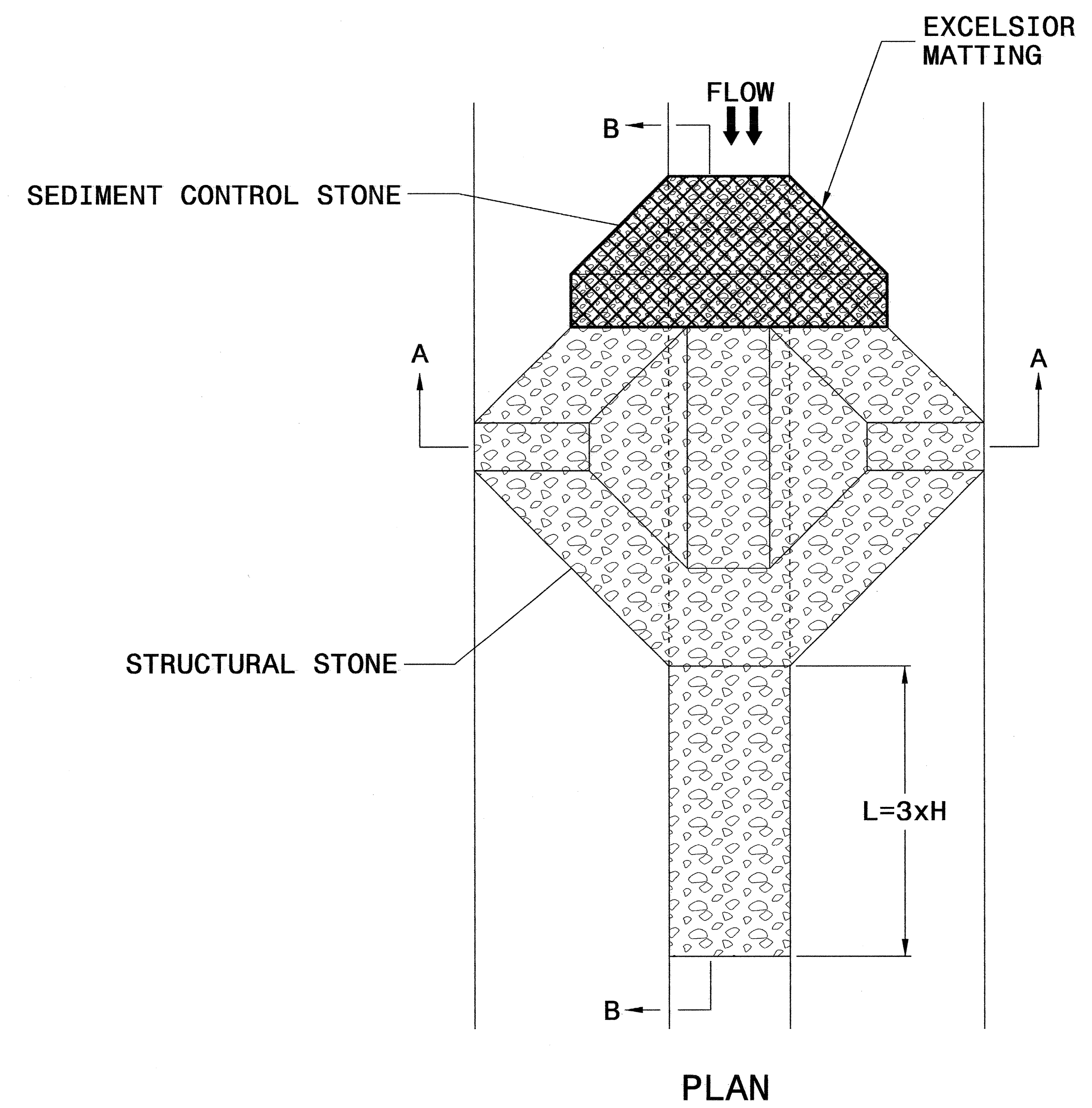


- NOTES:**
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND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



PROJECT REFERENCE NO. U-2810C	SHEET NO. EC-2B
RW SHEET NO.	
PREPARED BY	DATE

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

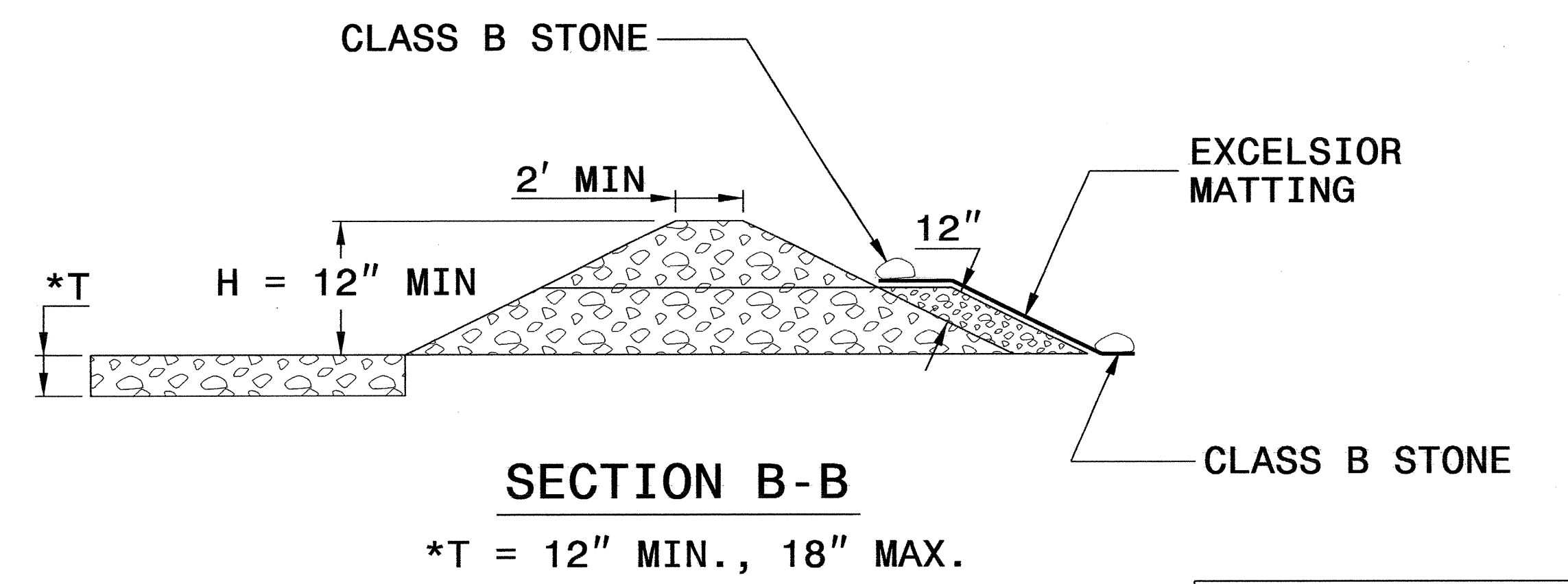
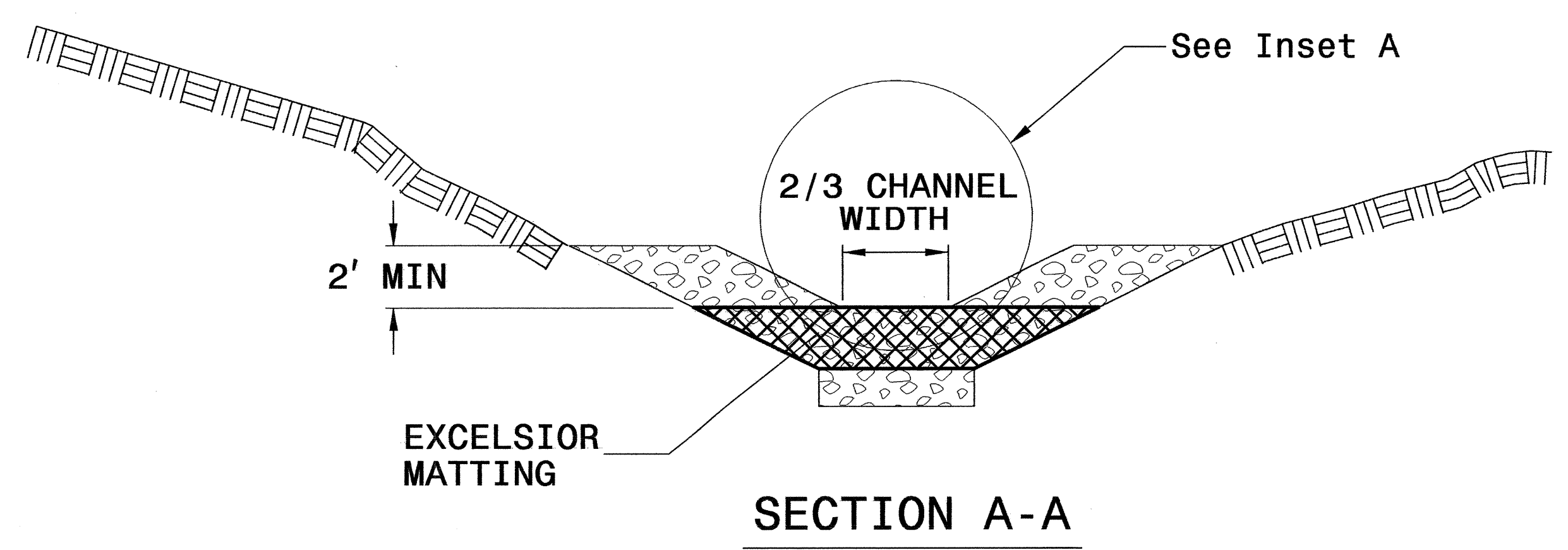
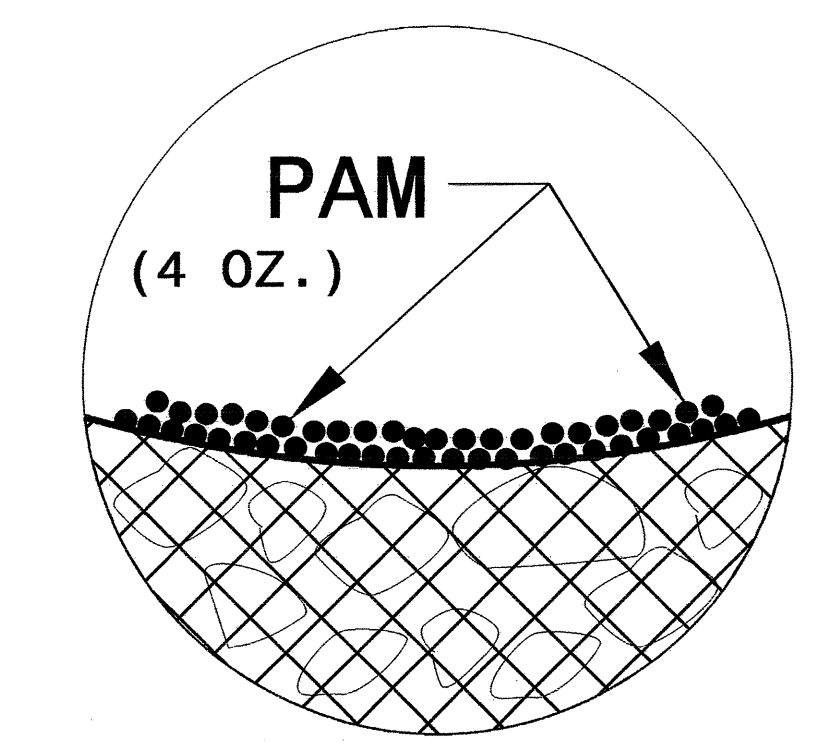


## NOTES

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.

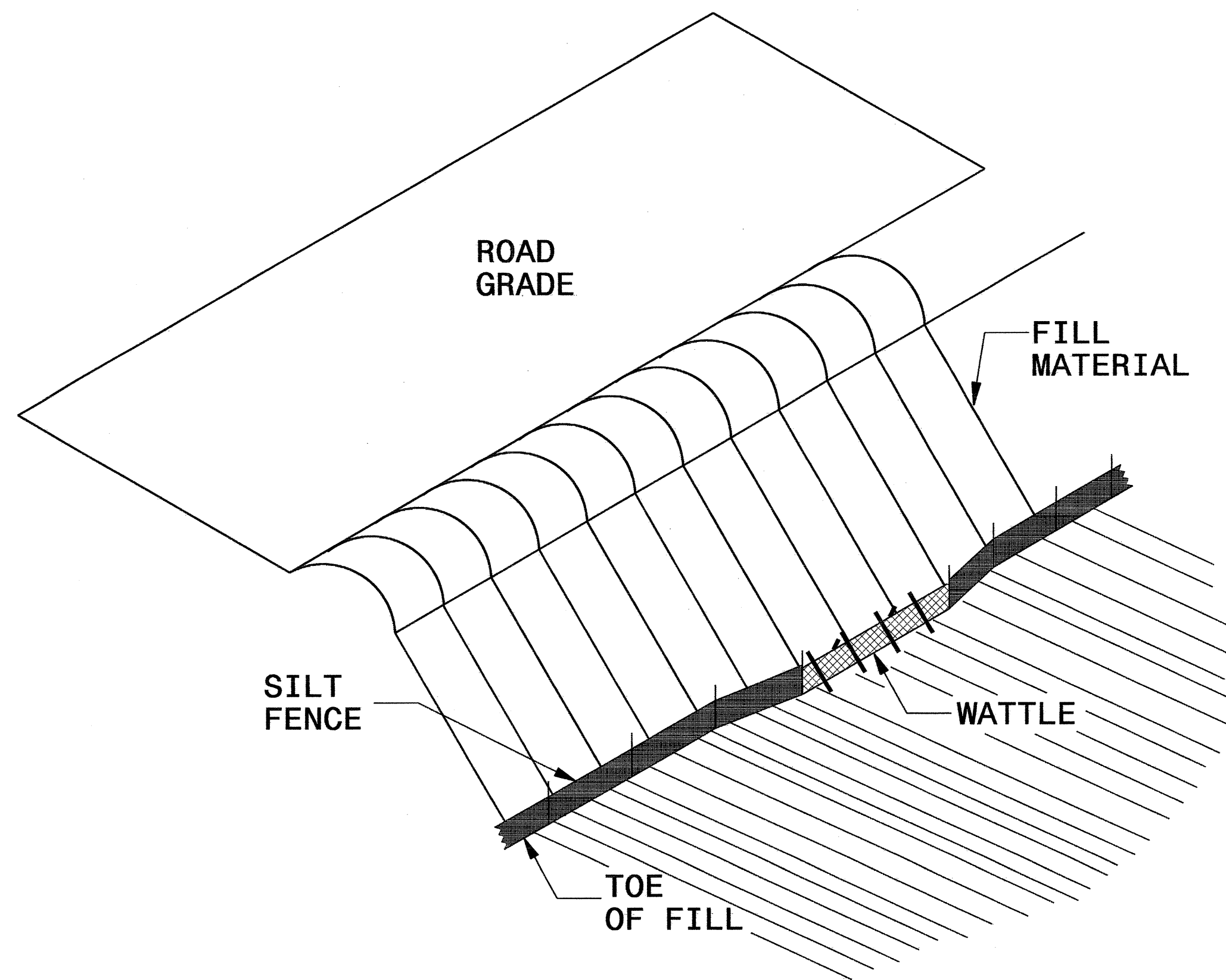


NOT TO SCALE

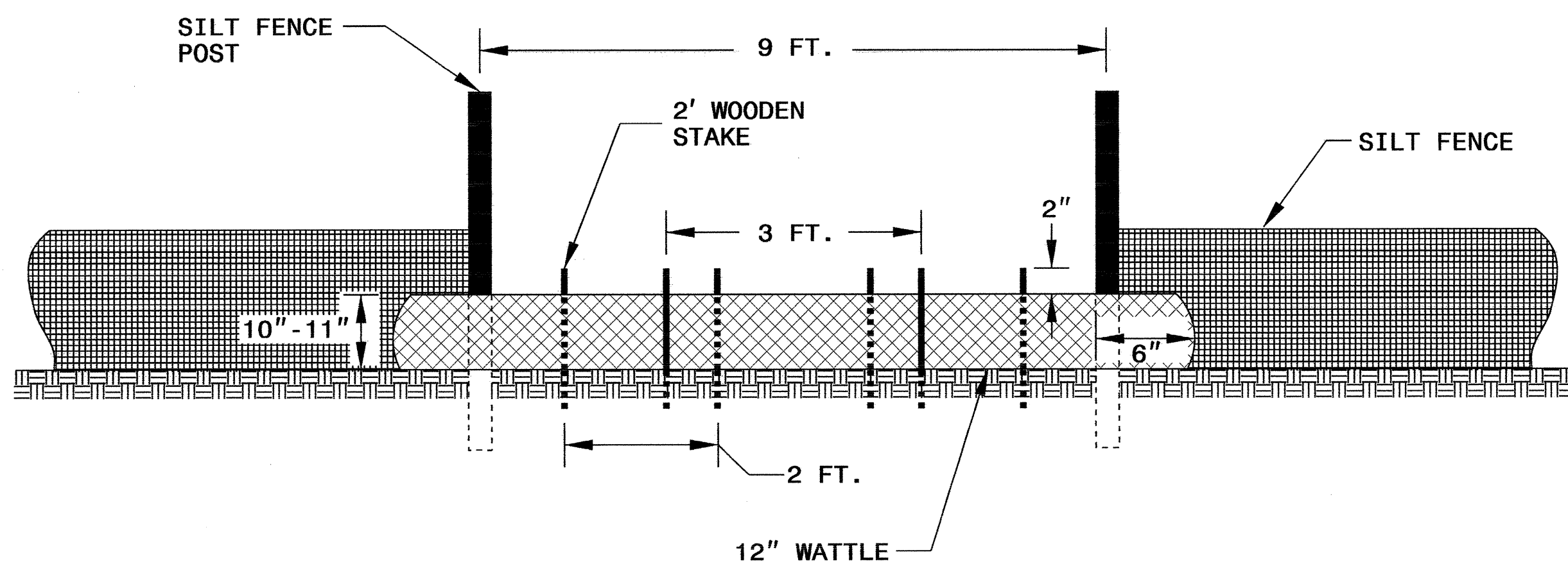


# SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO. U-2810C	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGNER ENGINEER	INSPECTOR ENGINEER



**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.

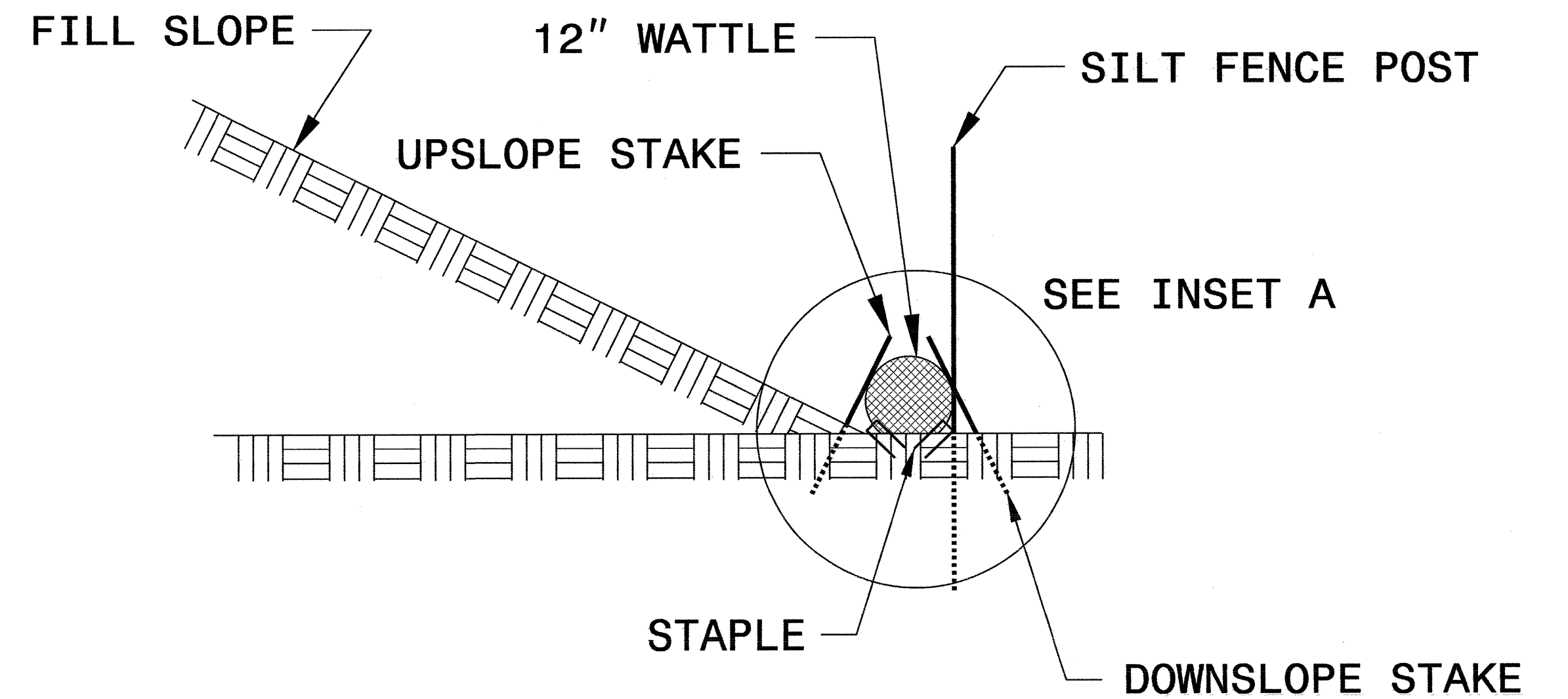
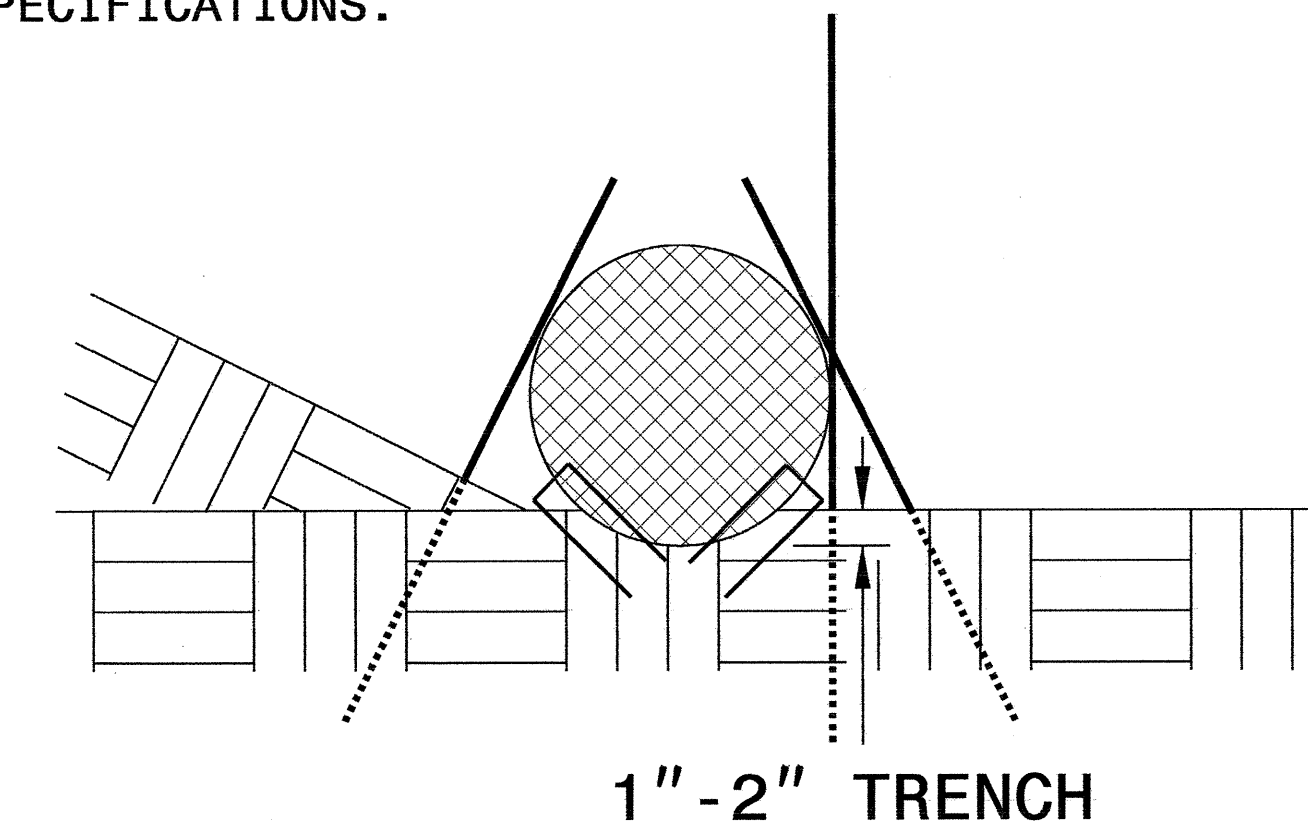
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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**





DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO. <i>U-2810C</i>	SHEET NO. <i>EC-3A</i>
<del>NO. OF SHEETS</del>	<del>NO. OF SHEETS</del>

## ***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.

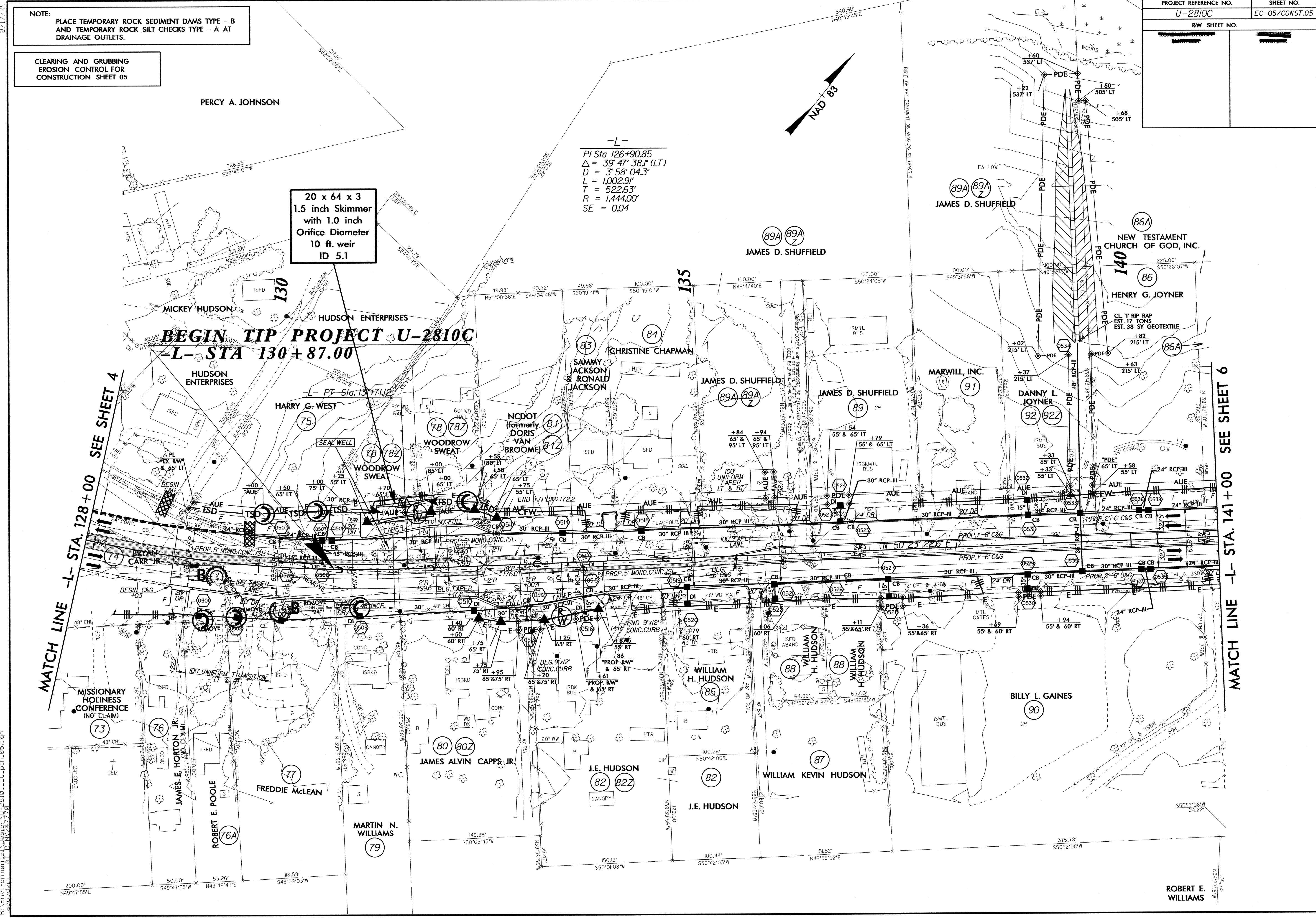




NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 05

PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-05/CONST.05
RW SHEET NO.	
DESIGNER	APPROVER



20 x 64 x 3  
1.5 inch Skimmer  
with 1.0 inch  
Orifice Diameter  
10 ft. weir  
ID 5.1

-L-  
PI Sta 126+90.85  
 $\Delta = 39^{\circ} 47' 38.1''$  (LT)  
 $D = 3^{\circ} 58' 04.3''$   
 $L = 1,002.91'$   
 $T = 522.63'$   
 $R = 1,444.00'$   
 $SE = 0.04$

MATCH LINE -L- STA. 128+00  
SEE SHEET 4

MATCH LINE -L- STA. 141+00  
SEE SHEET 6

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 AT RENW23772

ROBERT E. WILLIAMS

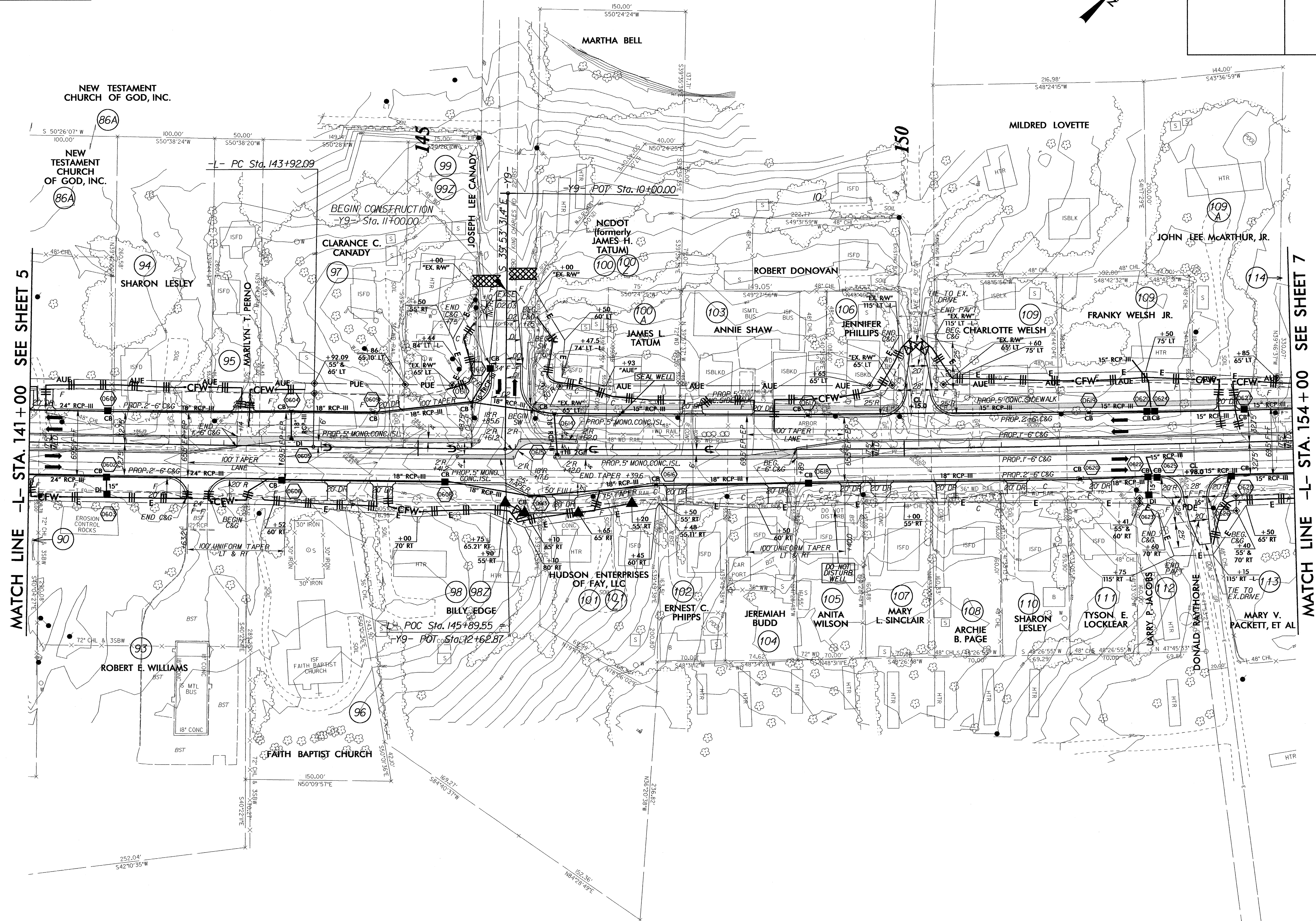
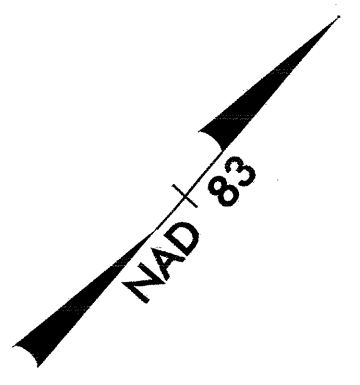


8/17/99

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 06

PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-06/CONST.06
RW SHEET NO.	
DESIGNED BY	CHECKED BY
ENGINEER	ENGINEER



MATCH LINE -L- STA. 141+00 SEE SHEET 5

MATCH LINE -L- STA. 154+00 SEE SHEET 7

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REVISED BY: JLD



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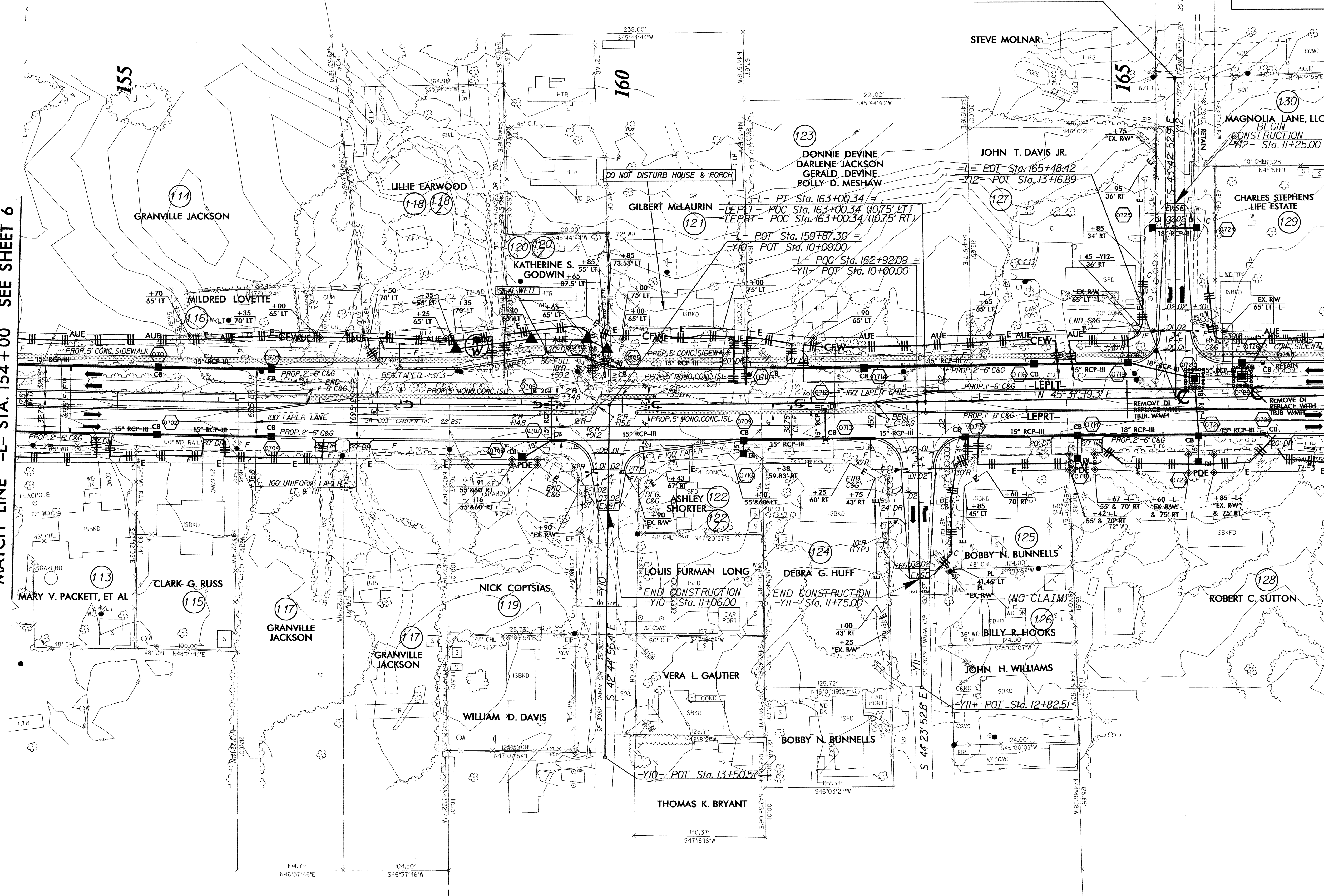
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 07

PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-07/CONST.07
RW SHEET NO.	
DESIGNER	ENGINEER

MATCH LINE -L- STA. 154+00 SEE SHEET 6

MATCH LINE -L- STA. 167+00 SEE SHEET 8



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REVISED BY: [unreadable]

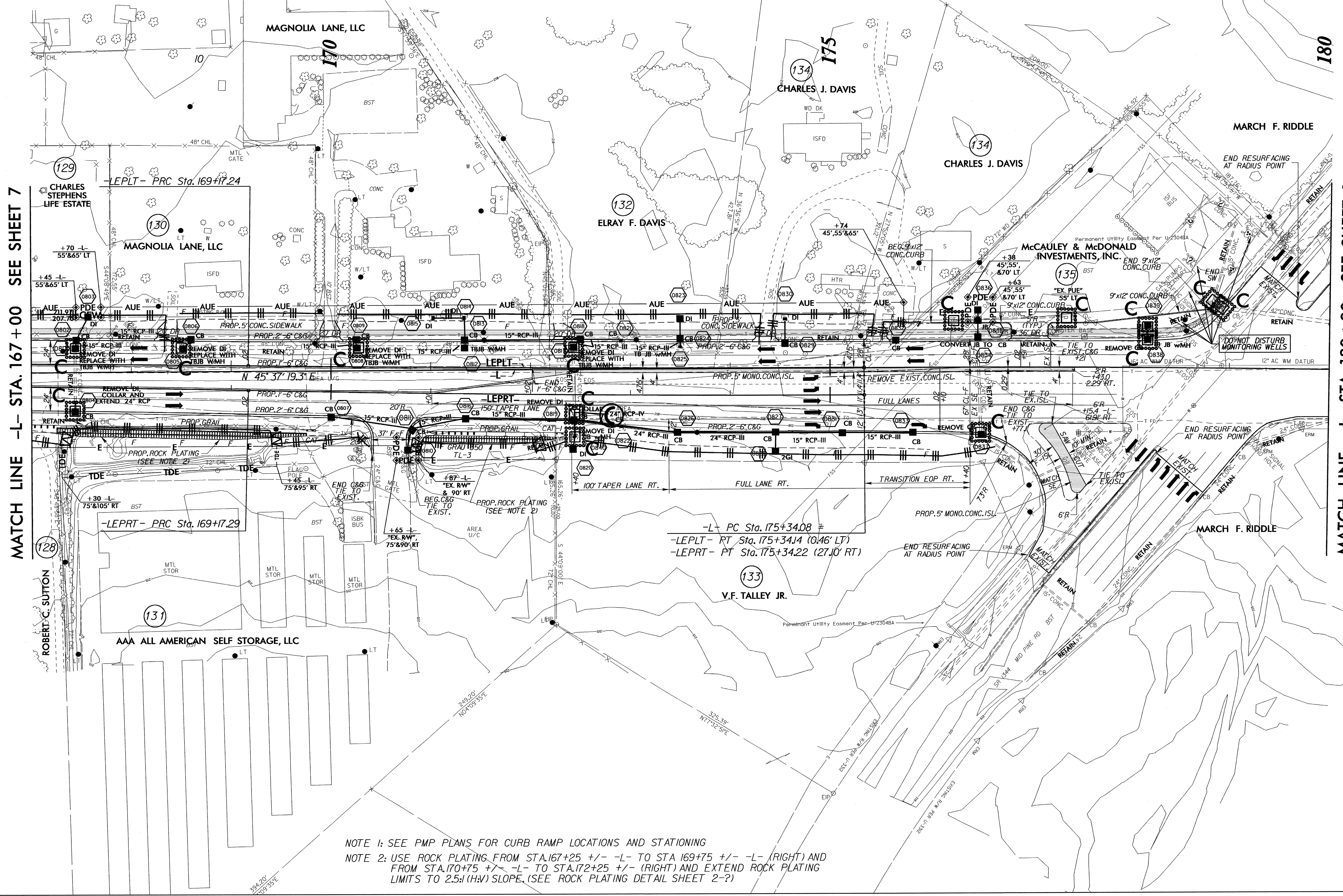


8/17/99

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 08

PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-08/CONST.08
RW SHEET NO.	
DESIGNED BY	CHECKED BY
DRAWN BY	DATE

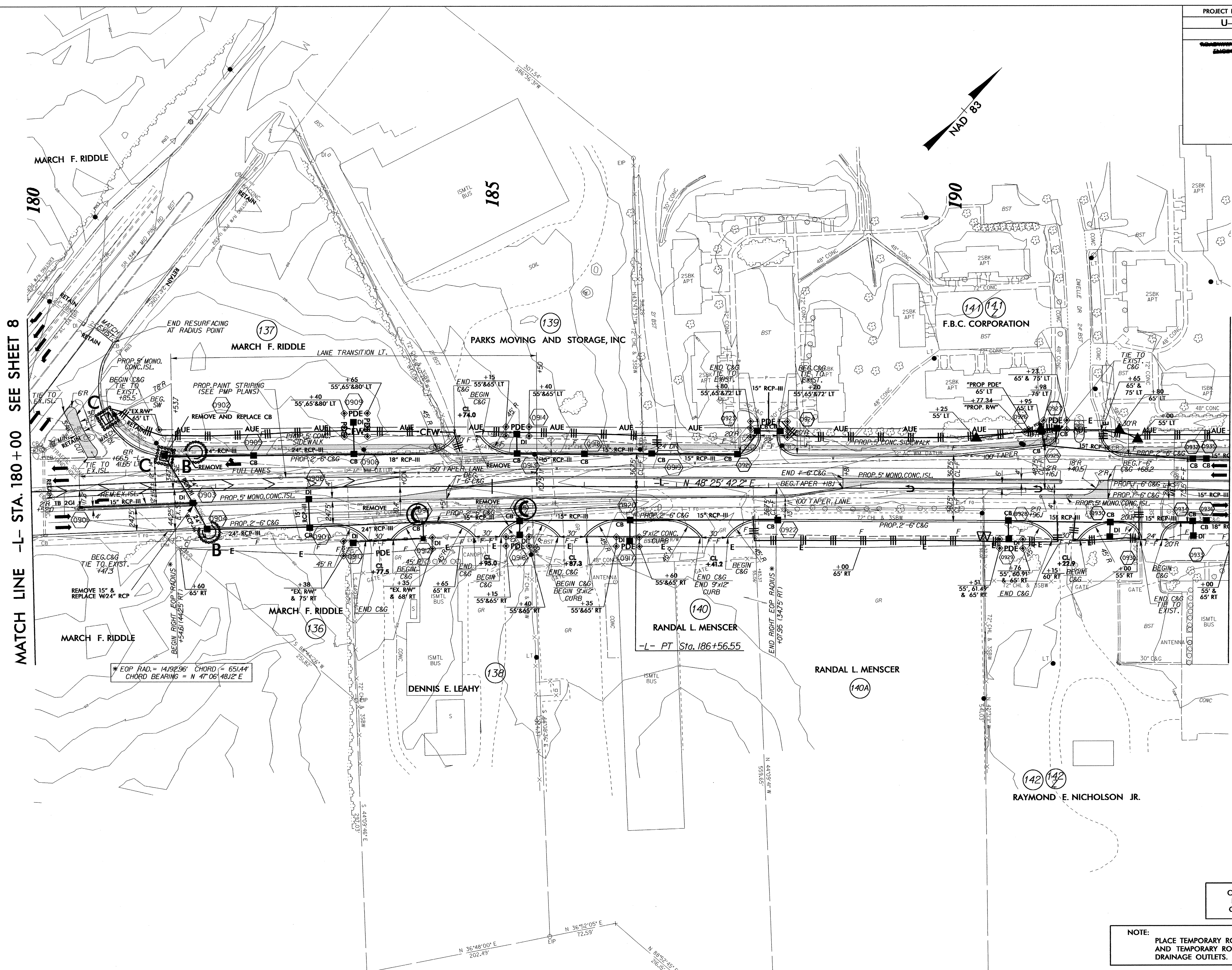


NOTE 1: SEE PMP PLANS FOR CURB RAMP LOCATIONS AND STATIONING  
 NOTE 2: USE ROCK PLATING FROM STA.167+25 +/- -L- TO STA.169+75 +/- -L- (RIGHT) AND FROM STA.170+75 +/- -L- TO STA.172+25 +/- (RIGHT) AND EXTEND ROCK PLATING LIMITS TO 2.5:1 (H/V) SLOPE. (SEE ROCK PLATING DETAIL SHEET 2-?)

03-SEP-2013 10:07  
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 ALL RIGHTS RESERVED



PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-09/CONST.09
RW SHEET NO.	
DESIGNED BY	CHECKED BY
DATE	DATE



MATCH LINE -L- STA. 180+00 SEE SHEET 8

MATCH LINE -L- STA. 193+00 SEE SHEET 10

\* EOP RAD. = 14192.96' CHORD = 651.44'  
 CHORD BEARING = N 47°06'48.12" E

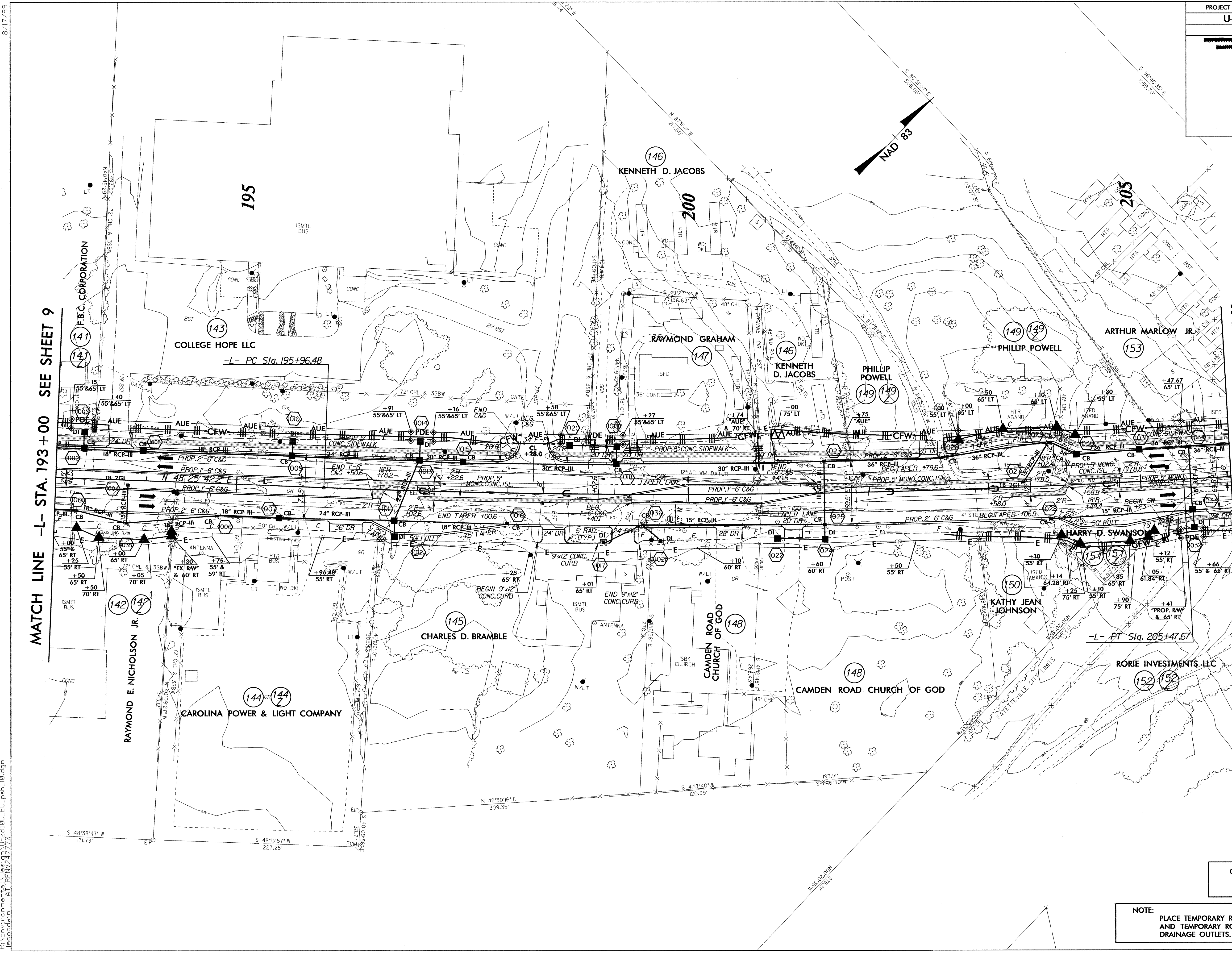
CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 09

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

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PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-10/CONST.10
RW SHEET NO.	
PROPOSED DESIGN ENGINEER	PROPOSED ENGINEER



MATCH LINE -L- STA. 193+00 SEE SHEET 9

MATCH LINE -L- STA. 206+00 SEE SHEET 11

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 10

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

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PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-11/CONST-11
RW SHEET NO.	

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 11

-Y13-  
PI Sta 12+27.53  
 $\Delta = 39^{\circ} 17' 42.8''$  (RT)  
D = 63' 39' 43.1"  
L = 617.2'  
T = 321.3'  
R = 90.00'  
SE = SEE PLANS

-Y14- POT Sta. 8+00.00  
BEGIN CONSTRUCTION

-L- POT Sta. 216+08.68 =  
-Y14- POT Sta. 13+38.99

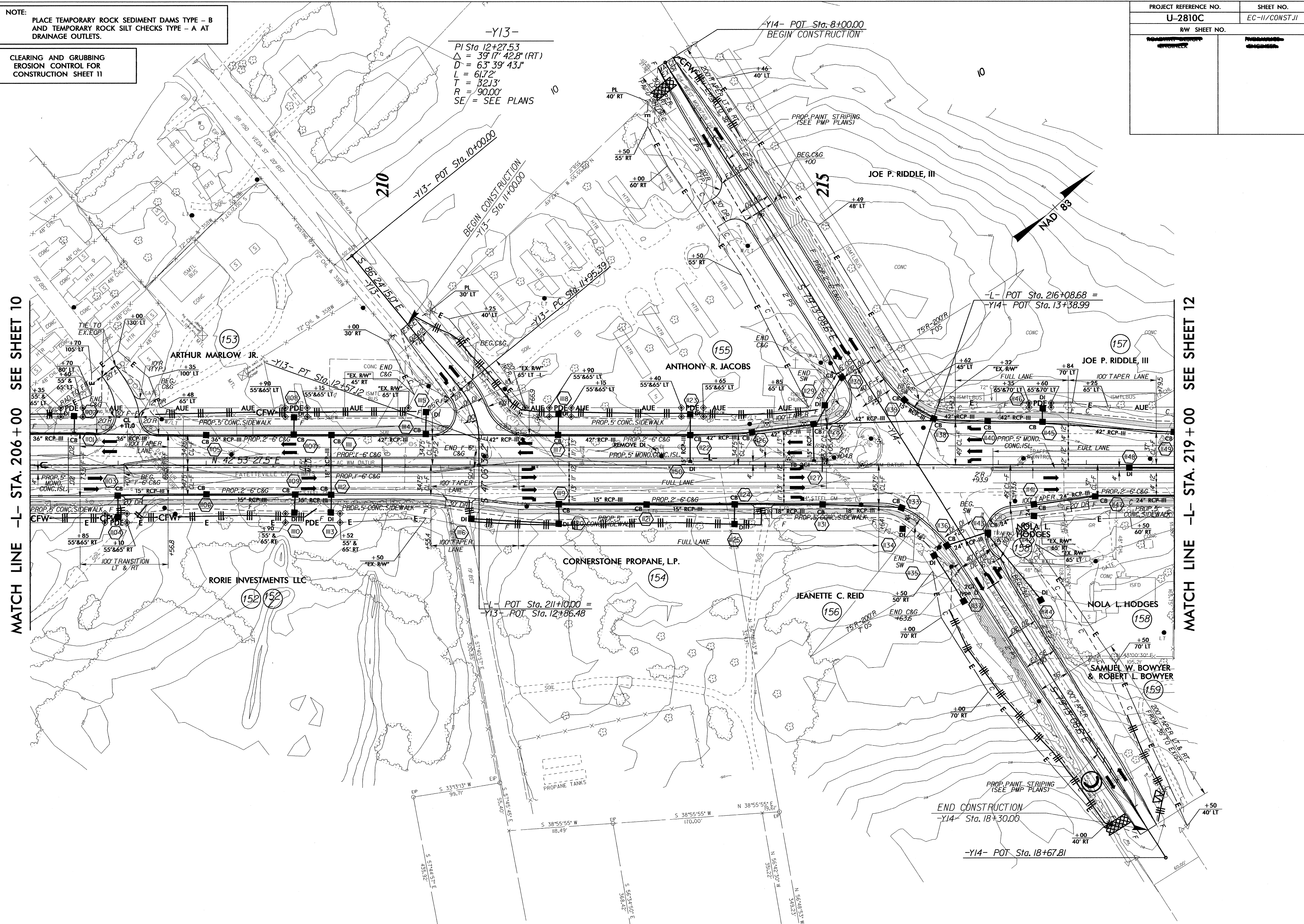
-L- POT Sta. 211+10.00 =  
-Y13- POT Sta. 12+86.48

END CONSTRUCTION  
-Y14- Sta. 18+30.00

-Y14- POT Sta. 18+67.81

MATCH LINE -L- STA. 206+00 SEE SHEET 10

MATCH LINE -L- STA. 219+00 SEE SHEET 12



8/17/99

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jagoodwin



8/17/99

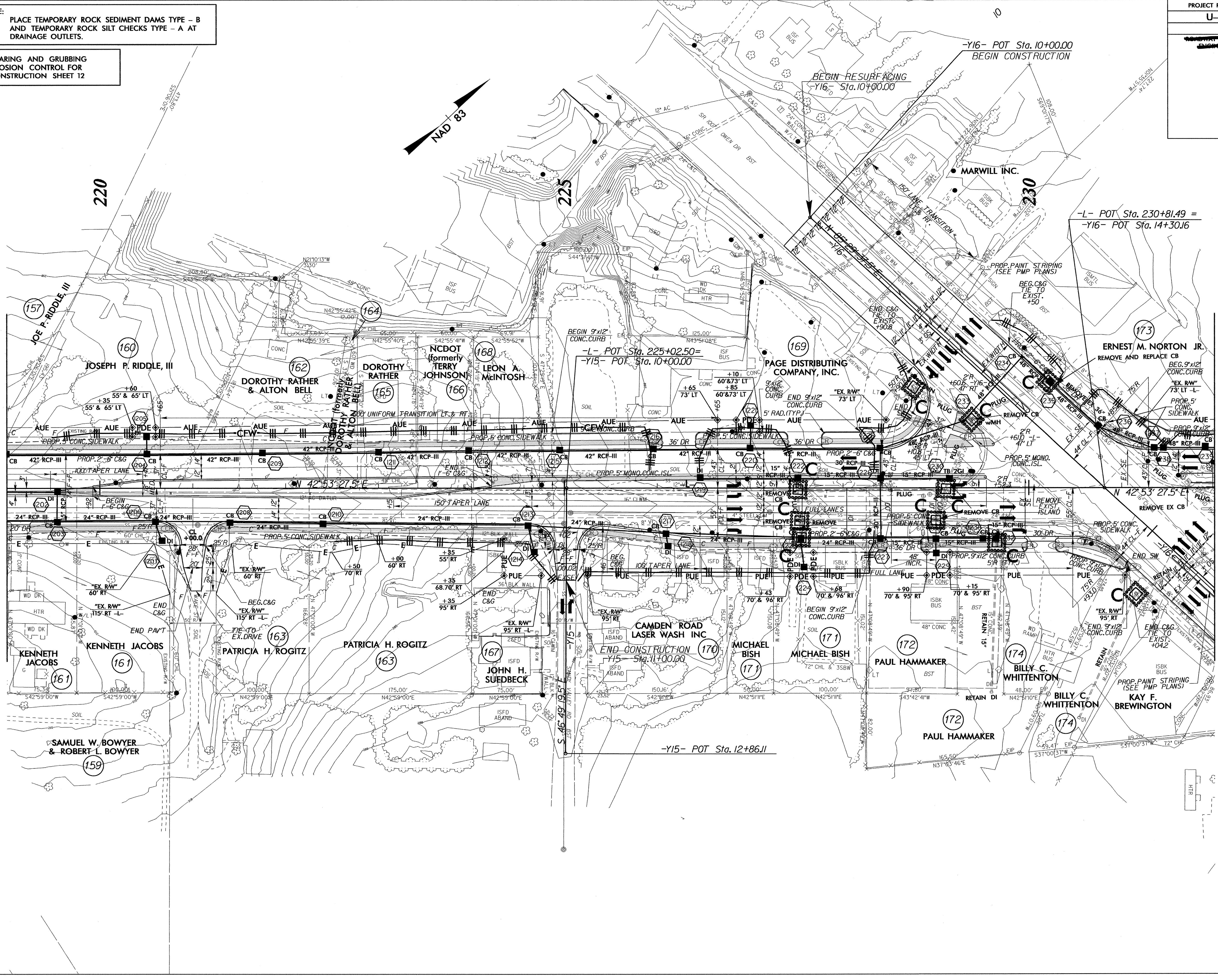
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 12

PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-12/CONST.12
R/W SHEET NO.	
DESIGNER	ENGINEER

MATCH LINE -L- STA. 219+00 SEE SHEET 11

MATCH LINE -L- STA. 232+00 SEE SHEET 13



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Jagocwin - AT - R13/27/78

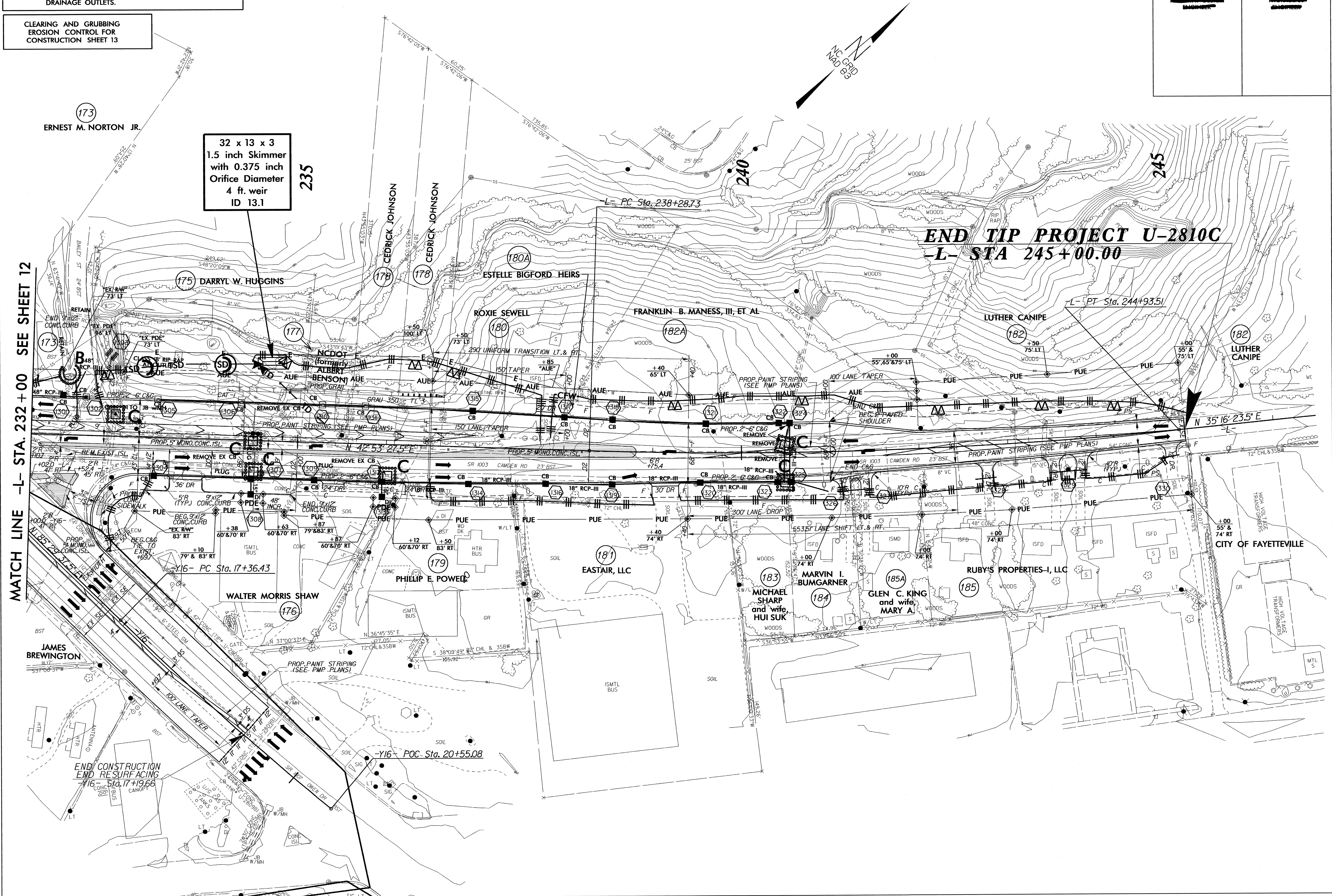


NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
DRAINAGE OUTLETS.

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 13

32 x 13 x 3  
1.5 inch Skimmer  
with 0.375 inch  
Orifice Diameter  
4 ft. weir  
ID 13.1

PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-13/CONST.13
RW SHEET NO.	



MATCH LINE -L- STA. 232+00 SEE SHEET 12

END TIP PROJECT U-2810C  
-L- STA 245+00.00

JAMES BREWINGTON

END CONSTRUCTION  
END RESURFACING  
-Y16- Sta. 17+19.66

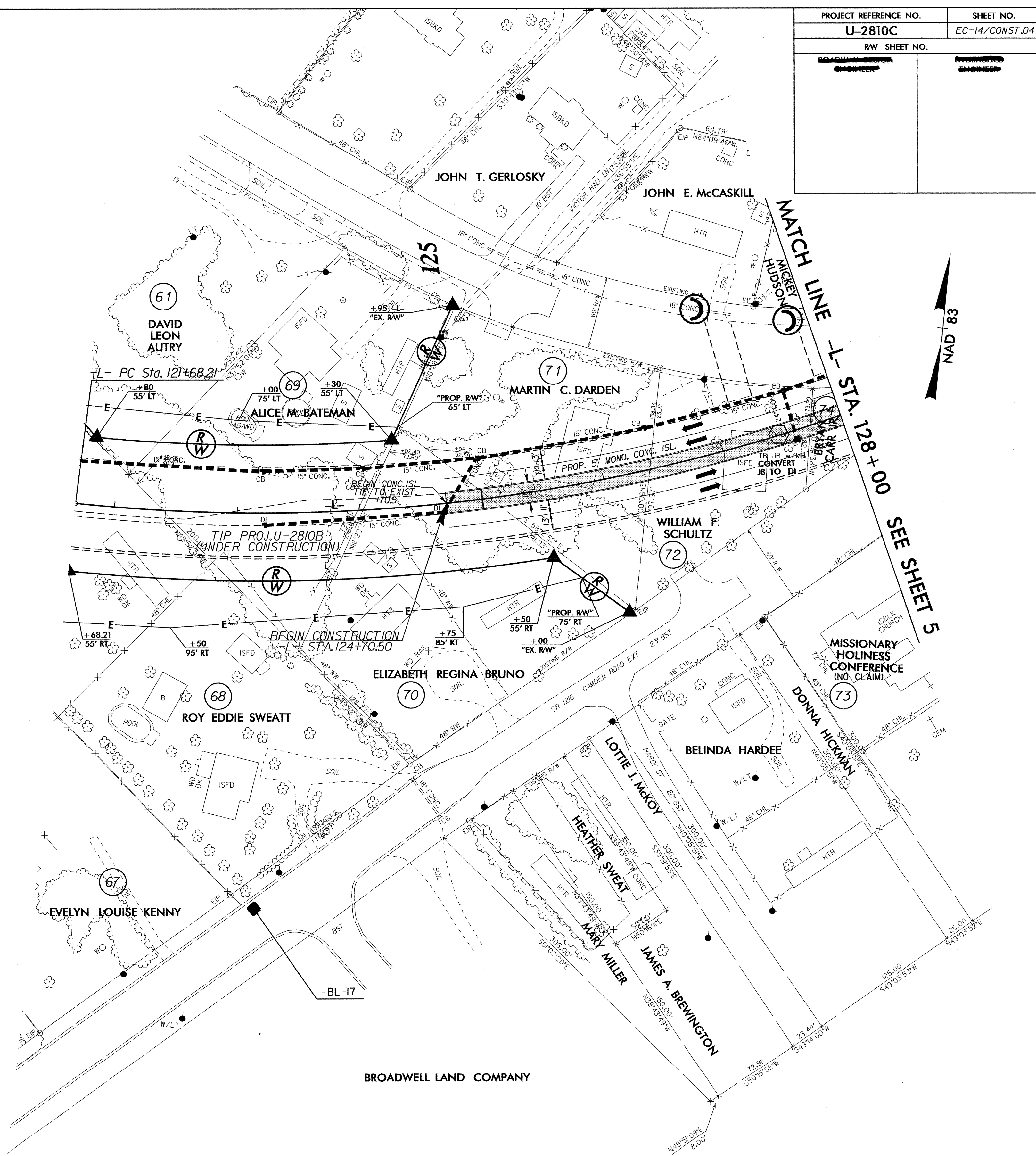
-Y16- POC- Sta. 20+55.08



PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-14/CONST.04
RW SHEET NO.	
ROADWAY DESIGN	PROPOSED

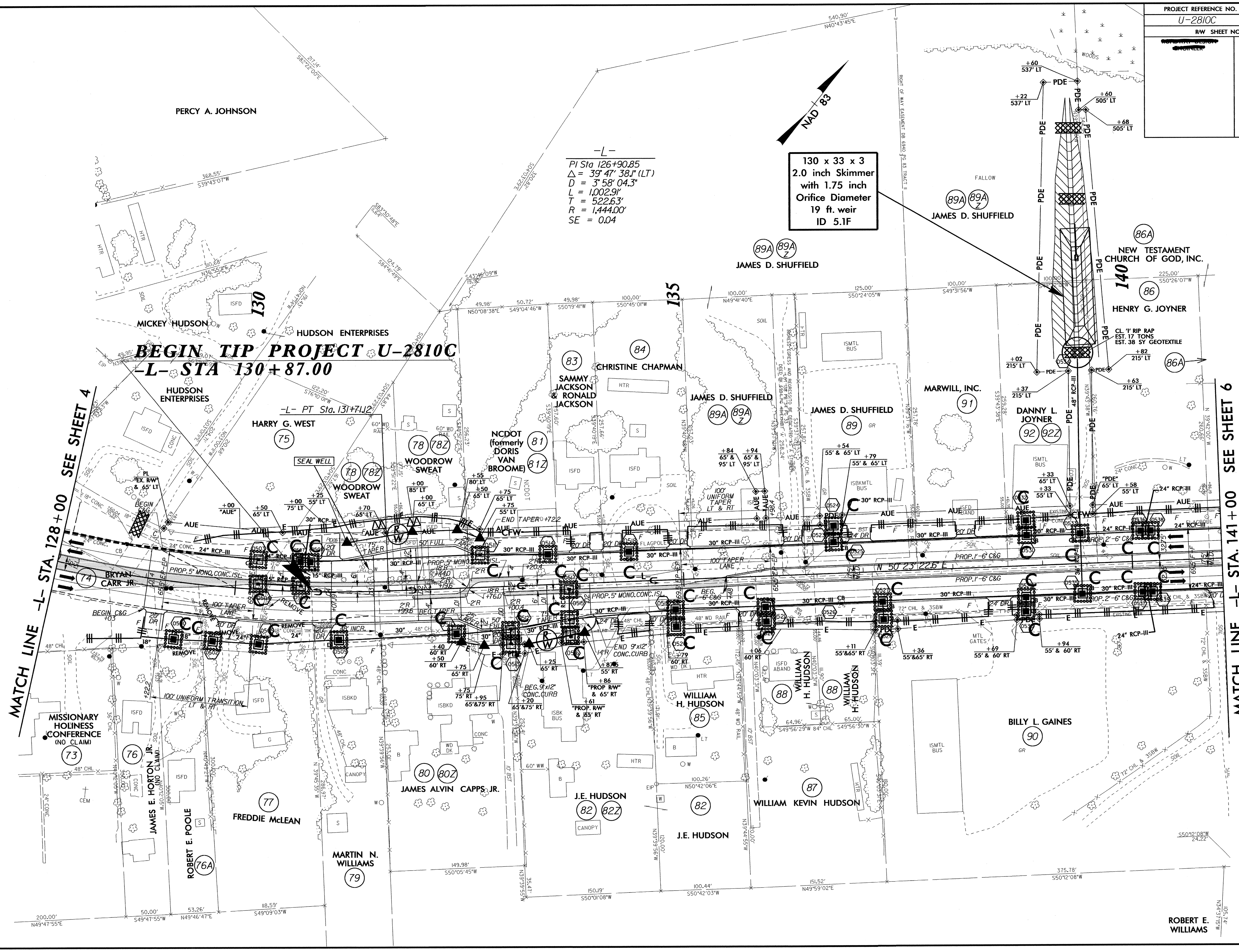
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PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-15/CONST.05
RW SHEET NO.	INSTRUMENTS
ENGINEER	DATE

8/17/99  
03-SEP-2013 09:27  
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REVISION 24778



-L-  
PI Sta 126+90.85  
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 $D = 3^{\circ}58'04.3''$   
 $L = 1,002.91'$   
 $T = 522.63'$   
 $R = 1,444.00'$   
 $SE = 0.04$

130 x 33 x 3  
2.0 inch Skimmer  
with 1.75 inch  
Orifice Diameter  
19 ft. weir  
ID 5.1F

MATCH LINE -L- STA. 128+00 SEE SHEET 4

MATCH LINE -L- STA. 141+00 SEE SHEET 6

**BEGIN TIP PROJECT U-2810C**  
-L- STA 130+87.00

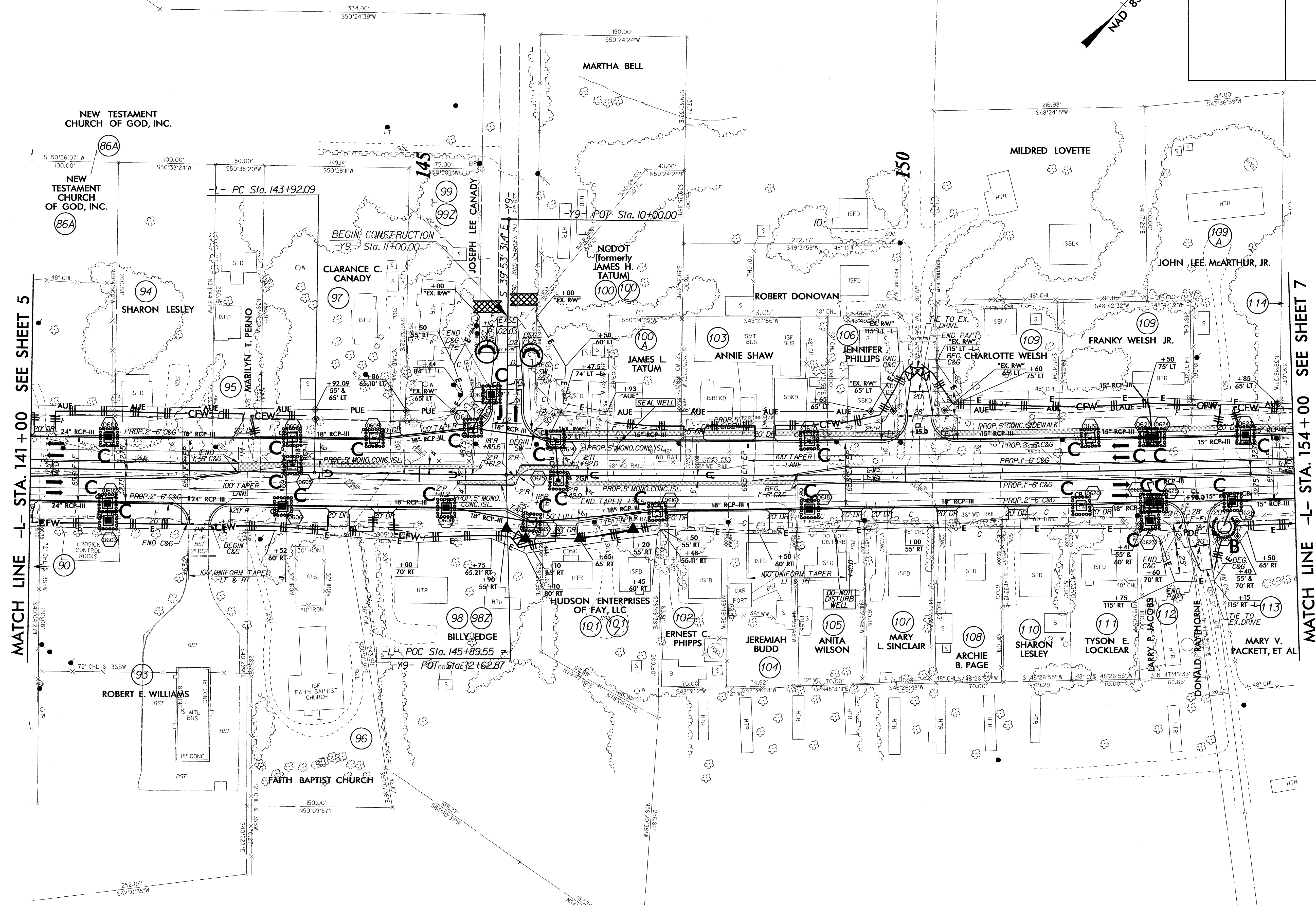
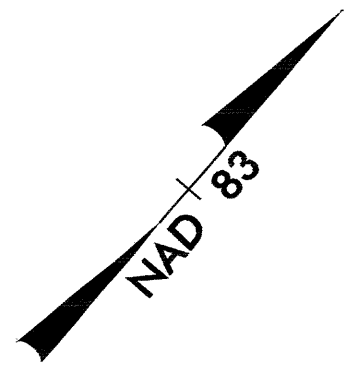
-L- PT Sta. 131+71.2

ROBERT E. WILLIAMS



8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-16/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	LANDSCAPE ENGINEER



MATCH LINE -L- STA. 141+00 SEE SHEET 5

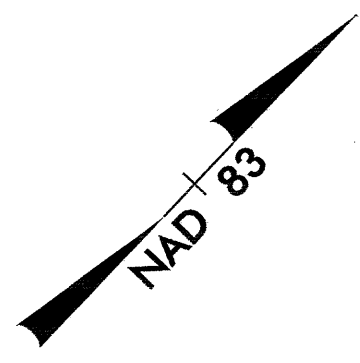
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 S42°10'35\"/>



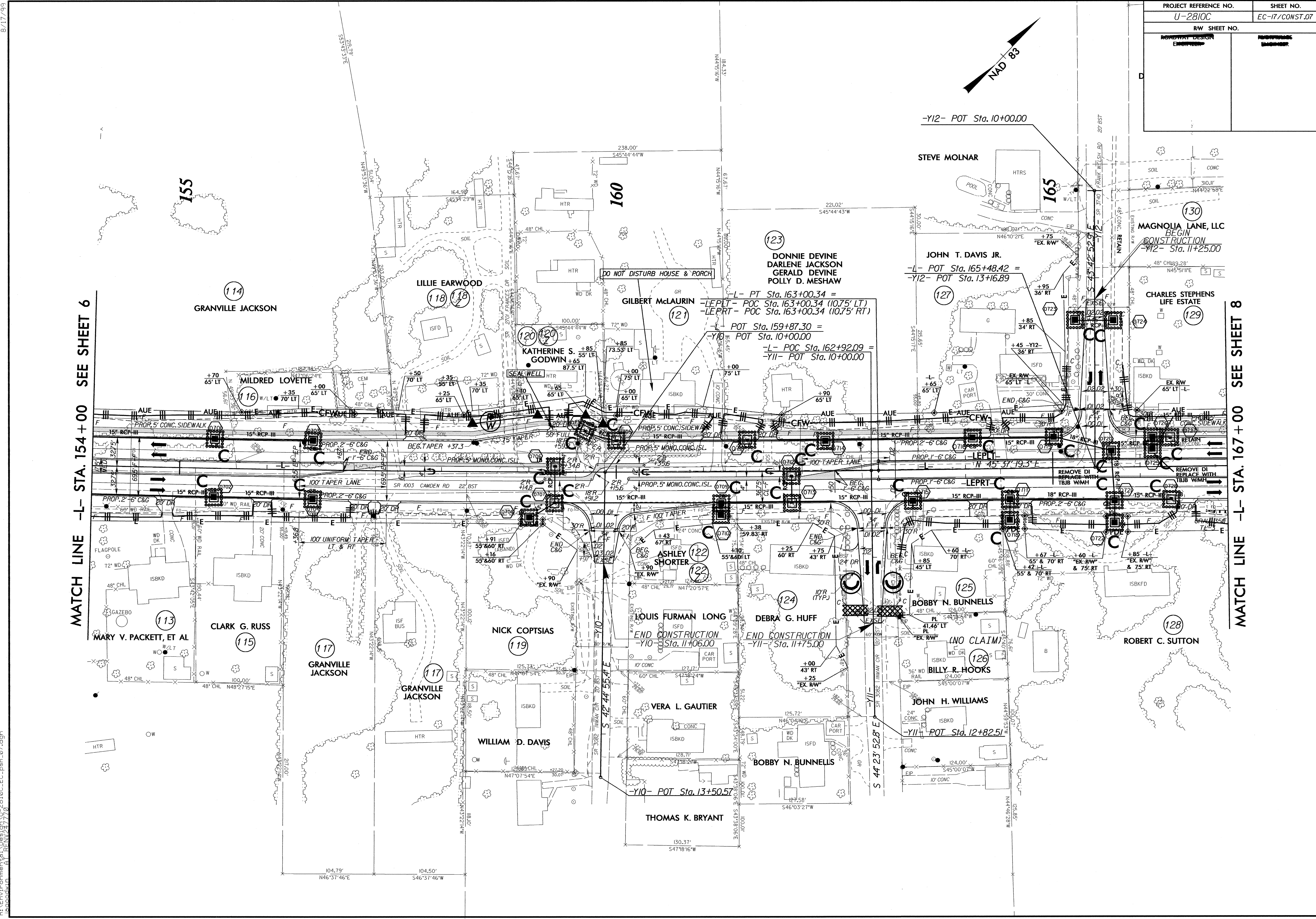
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-17/CONST.07
R/W SHEET NO.	
DESIGN ENGINEER	ENGINEER



MATCH LINE -L- STA. 154 + 00 SEE SHEET 6

MATCH LINE -L- STA. 167 + 00 SEE SHEET 8

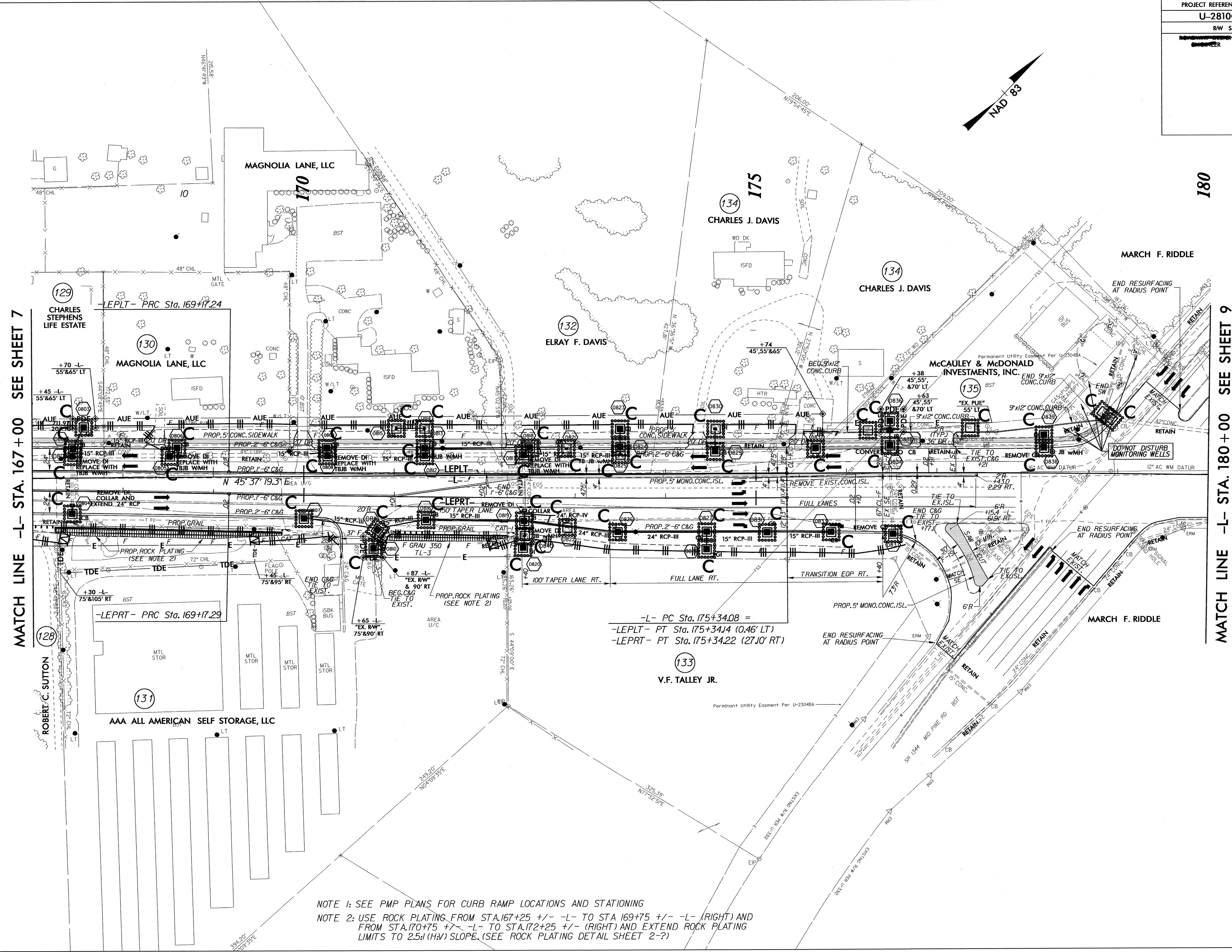
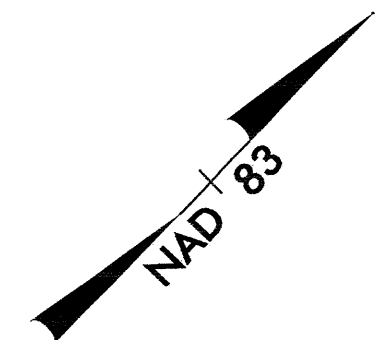


Q3-SEP-2013 10:41  
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A:\BENW28170



PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-18/CONST.08
RW SHEET NO.	
DESIGNED BY	CHECKED BY
ENGINEER	ENGINEER

8/17/99



MATCH LINE -L- STA. 167+00 SEE SHEET 7

MATCH LINE -L- STA. 180+00 SEE SHEET 9

-L- PC Sta. 175+34.08 =  
 -LEPLT- PT Sta. 175+34.14 (0.46' LT)  
 -LEPRT- PT Sta. 175+34.22 (27.10' RT)

NOTE 1: SEE PMP PLANS FOR CURB RAMP LOCATIONS AND STATIONING  
 NOTE 2: USE ROCK PLATING FROM STA.167+25 +/- -L- TO STA.169+75 +/- -L- (RIGHT) AND FROM STA.170+75 +/- -L- TO STA.172+25 +/- (RIGHT) AND EXTEND ROCK PLATING LIMITS TO 2.5:1 (H:V) SLOPE. (SEE ROCK PLATING DETAIL SHEET 2-?)

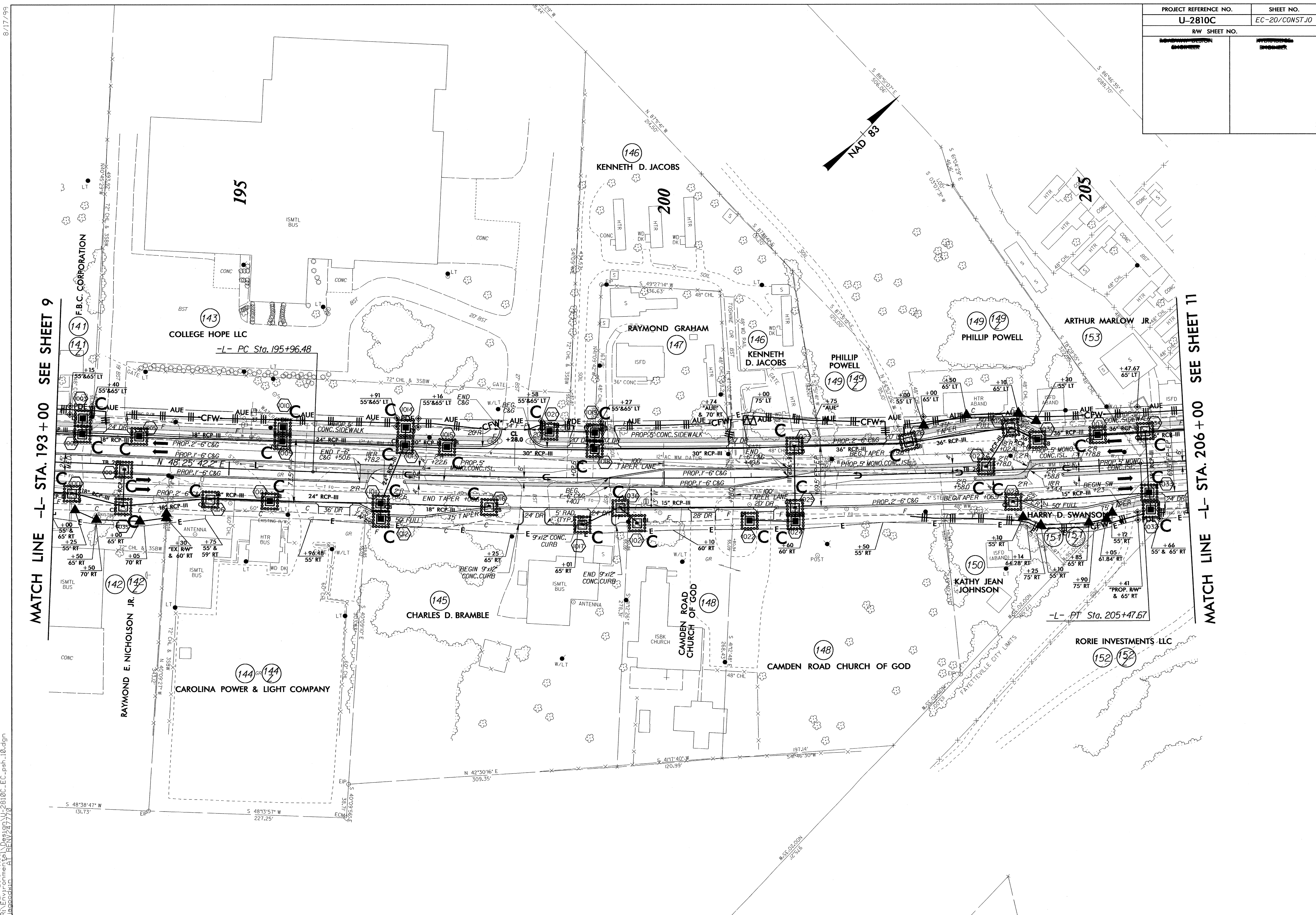
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 lagoodwin AT BENV247770







PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-20/CONST.10
RW SHEET NO.	
REVISIONS	DATE



MATCH LINE -L- STA. 193 + 00 SEE SHEET 9

MATCH LINE -L- STA. 206 + 00 SEE SHEET 11

8/17/99  
 03-SEP-2013 10:53  
 R:\Environment\2810C-EC-peh-10.dgn  
 J:\agoodwin



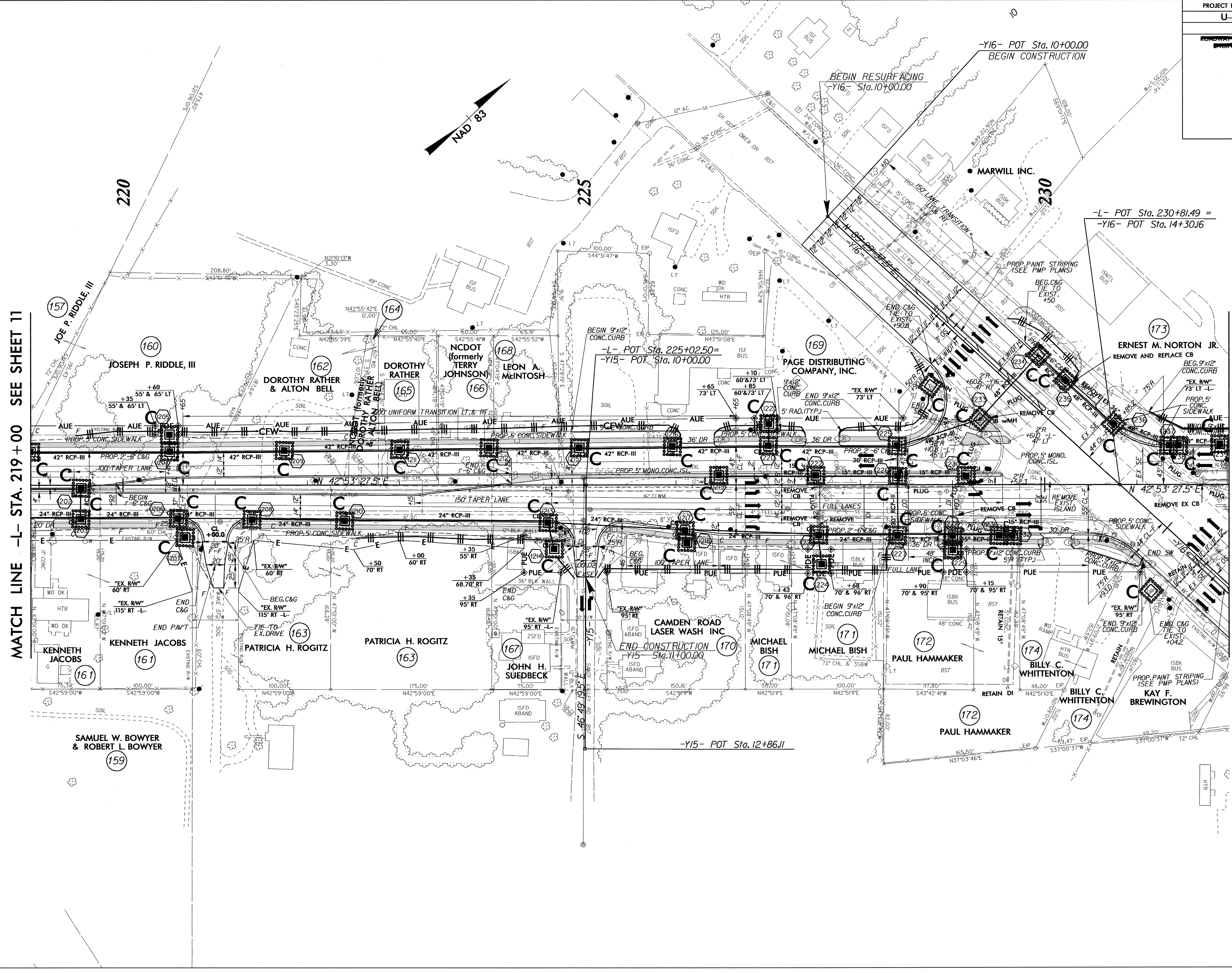




PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-22/CONST.12
RW SHEET NO.	
REMOVED SECTION	IMPROVED SECTION

MATCH LINE -L- STA. 219+00 SEE SHEET 11

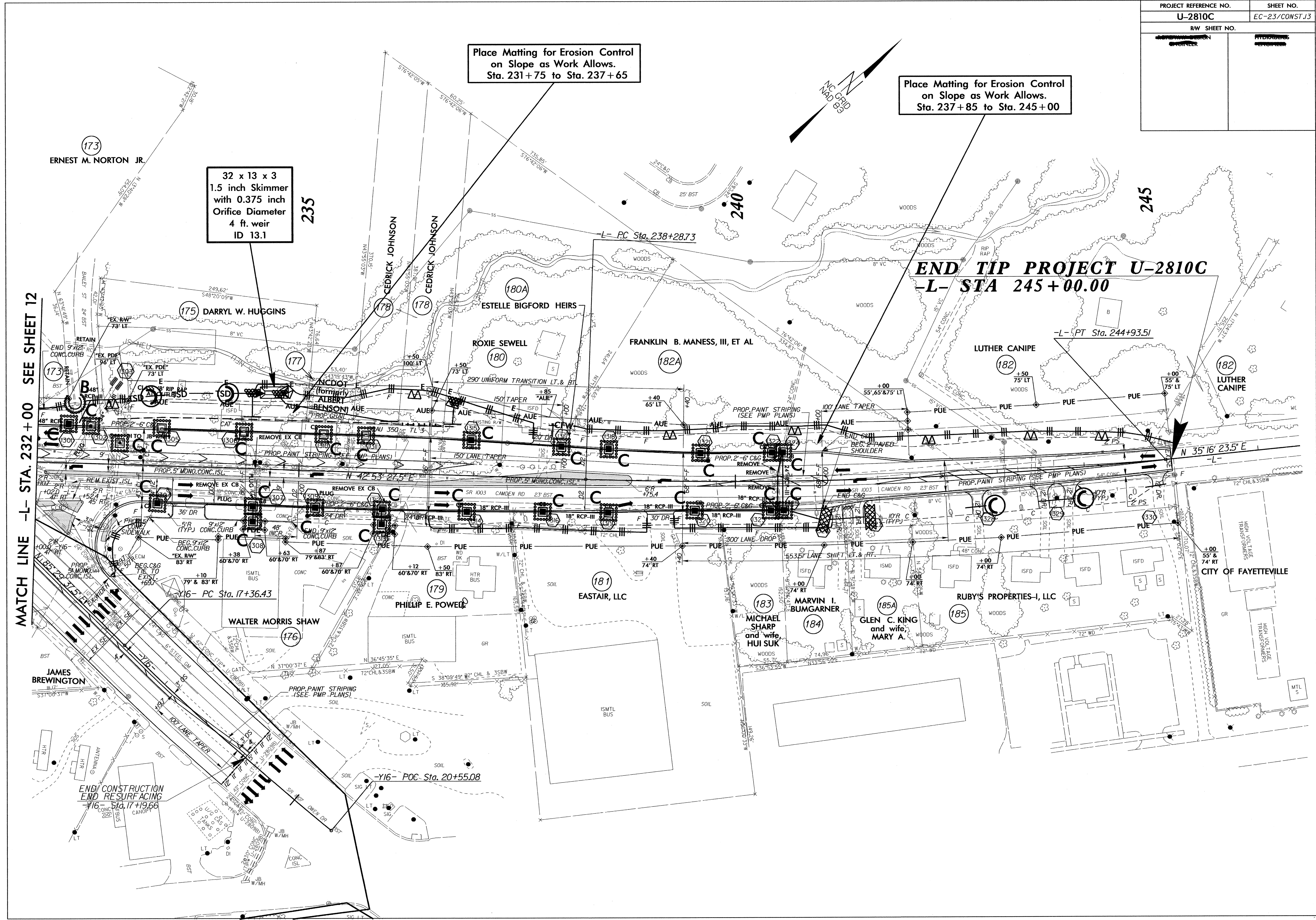
MATCH LINE -L- STA. 232+00 SEE SHEET 13





PROJECT REFERENCE NO.	SHEET NO.
U-2810C	EC-23/CONST.13
RW SHEET NO.	
CONSTRUCTION	PROVISIONS

8/17/99



Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 231+75 to Sta. 237+65

Place Matting for Erosion Control  
on Slope as Work Allows.  
Sta. 237+85 to Sta. 245+00

32 x 13 x 3  
1.5 inch Skimmer  
with 0.375 inch  
Orifice Diameter  
4 ft. weir  
ID 13.1

**END TIP PROJECT U-2810C**  
**-L- STA 245+00.00**

MATCH LINE -L- STA. 232+00 SEE SHEET 12

03-SEP-2013 14:07  
R:\Environment\2810C\U-2810C-EC-psh-13.dgn  
Jgoodwin AT REN247770