

TIP PROJECT: U-2211B

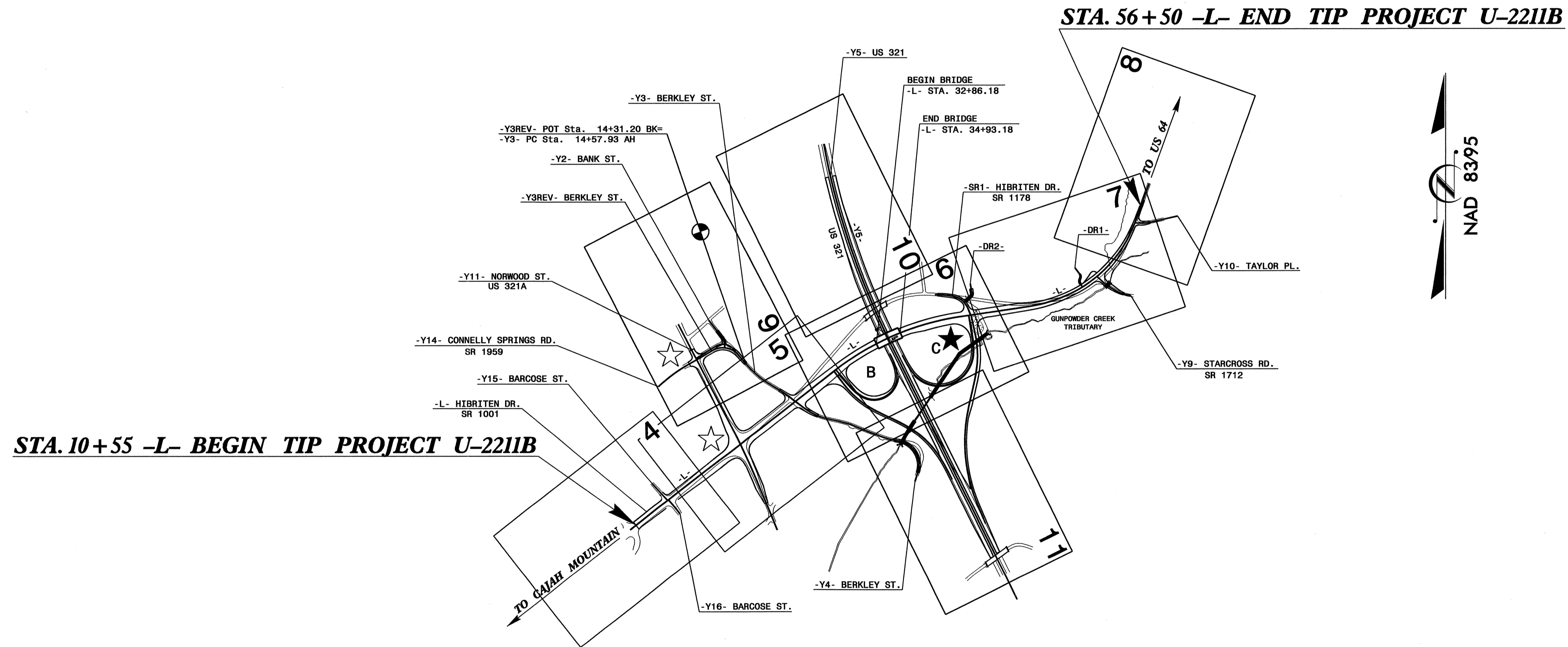
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CALDWELL COUNTY

LOCATION: LENOIR - SR 1001 (HIBRITEN DRIVE) FROM US 321A (NORWOOD STREET) TO SR 1712 (STARCROSS ROAD) EAST OF US 321

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

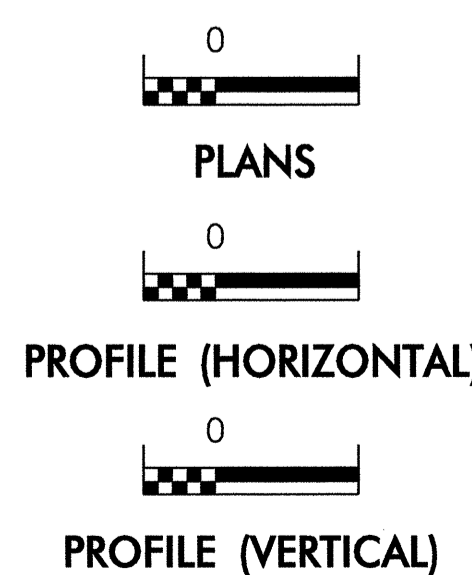


EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1650.03	Temporary Silt Ditch	
1650.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1650.02	Silt Basin Type B	
1653.01	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	
1650.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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

GRAPHIC SCALE



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

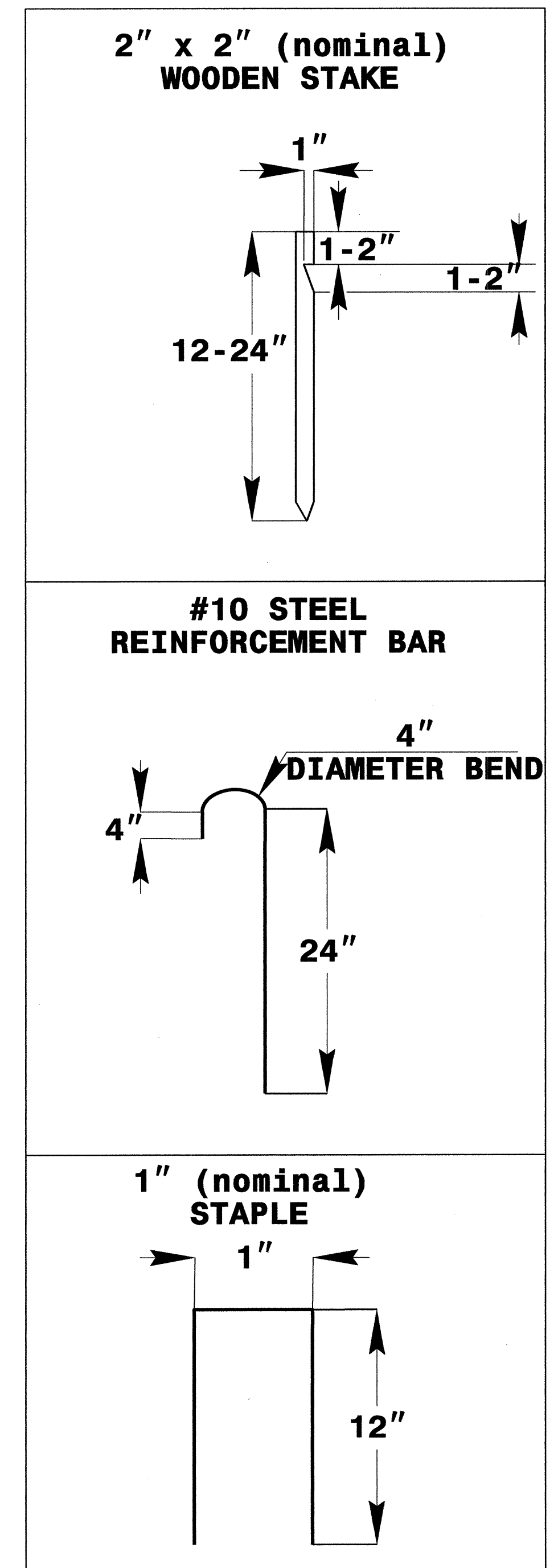
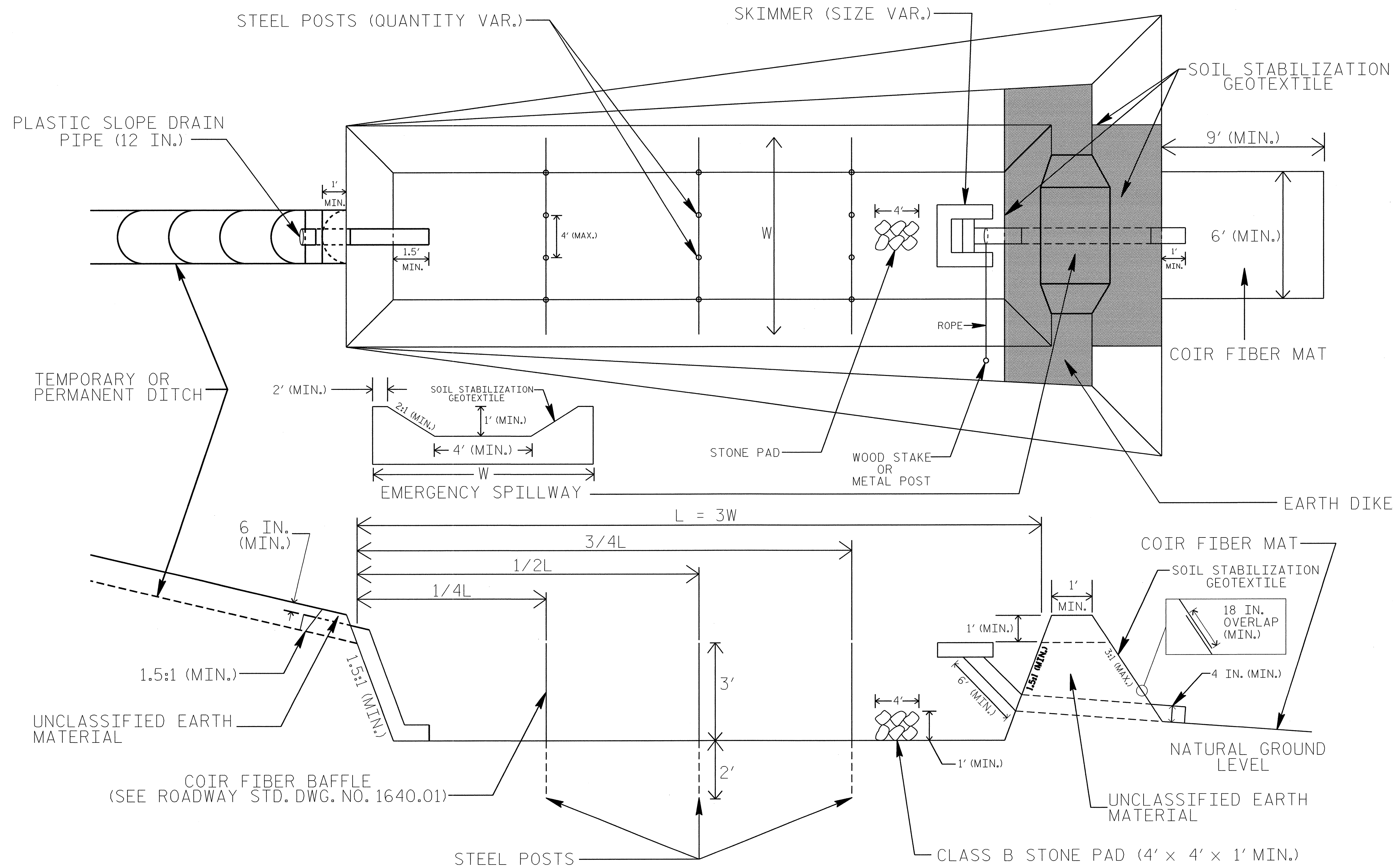
Roadway Standard Drawings

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
1650.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1650.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1650.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1650.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1650.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1650.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

PROJECT REFERENCE NO. U-2211B	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

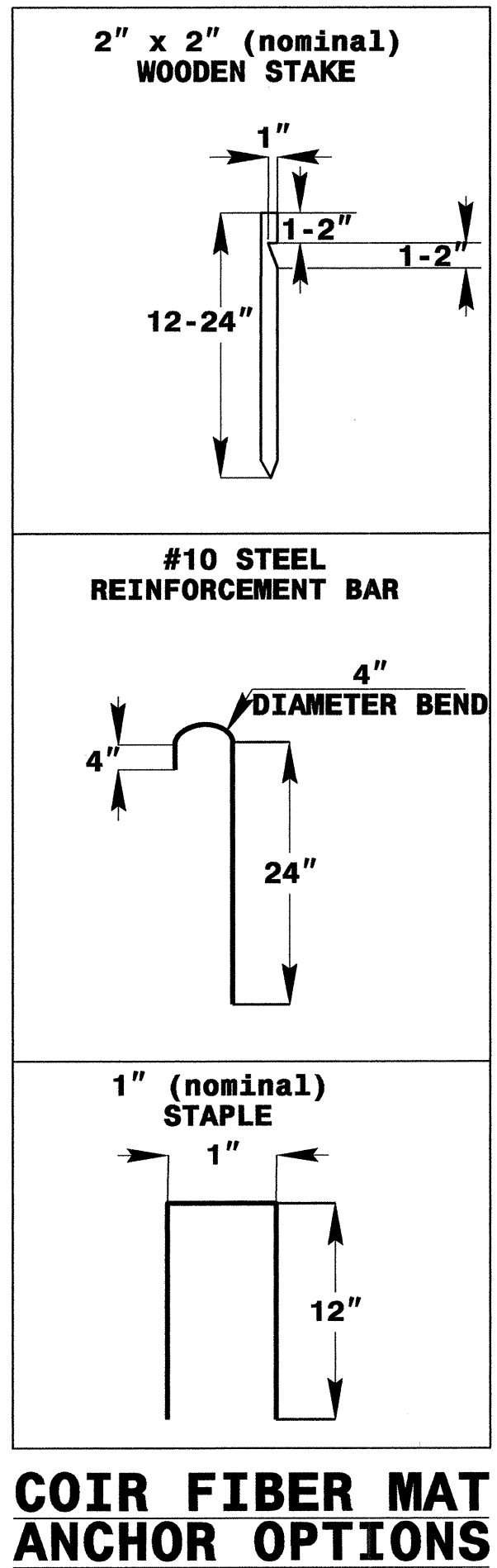
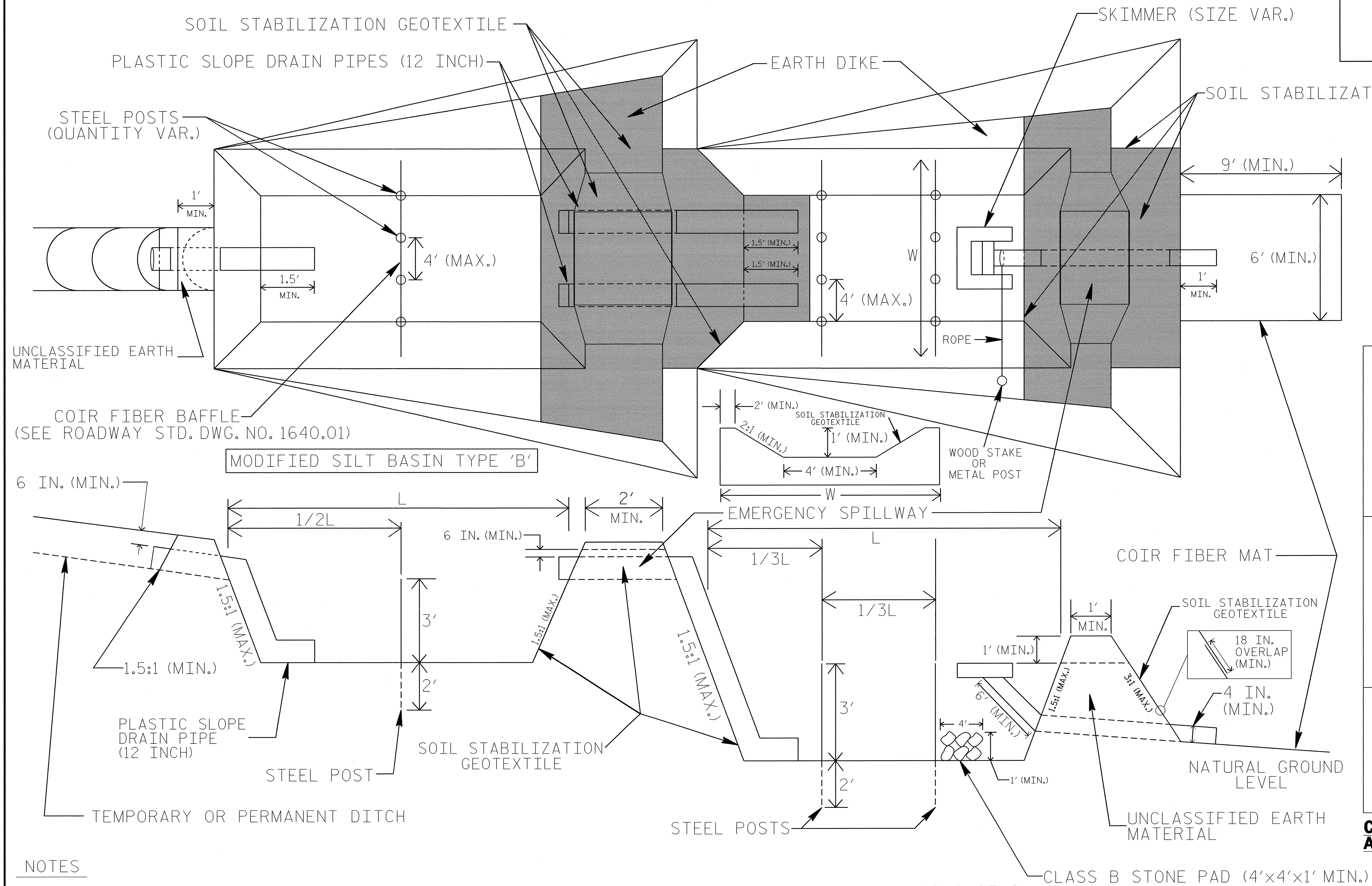
NOTES

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 EMERGENCY SPILLWAY LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. U-2211B	SHEET NO. EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



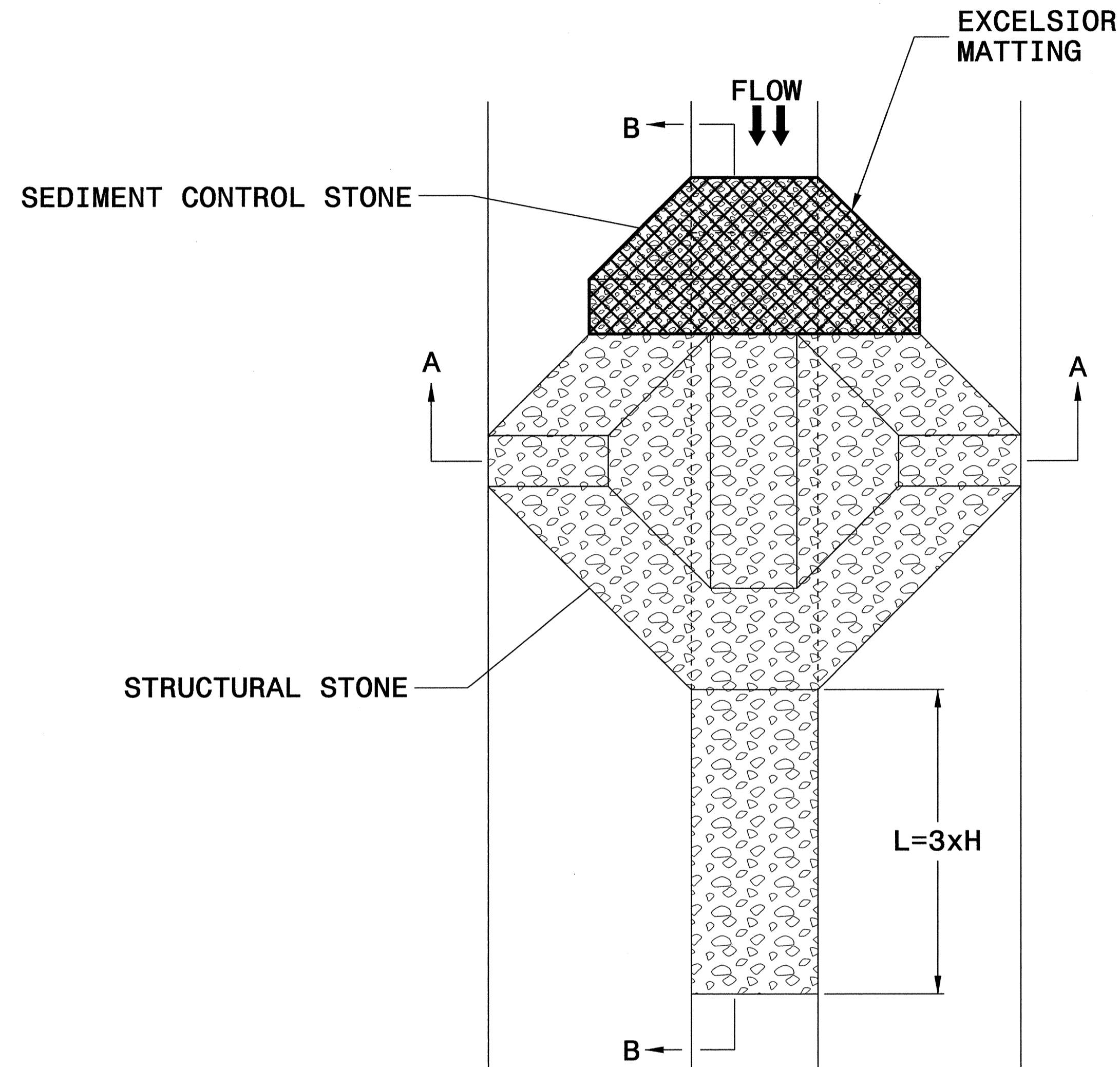
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.
4. FOR BASIN DEPTHS OF 3FT., THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
5. DETERMINE EMERGENCY SPILLWAY LENGTHS (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
6. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

PROJECT REFERENCE NO. U-2211B	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



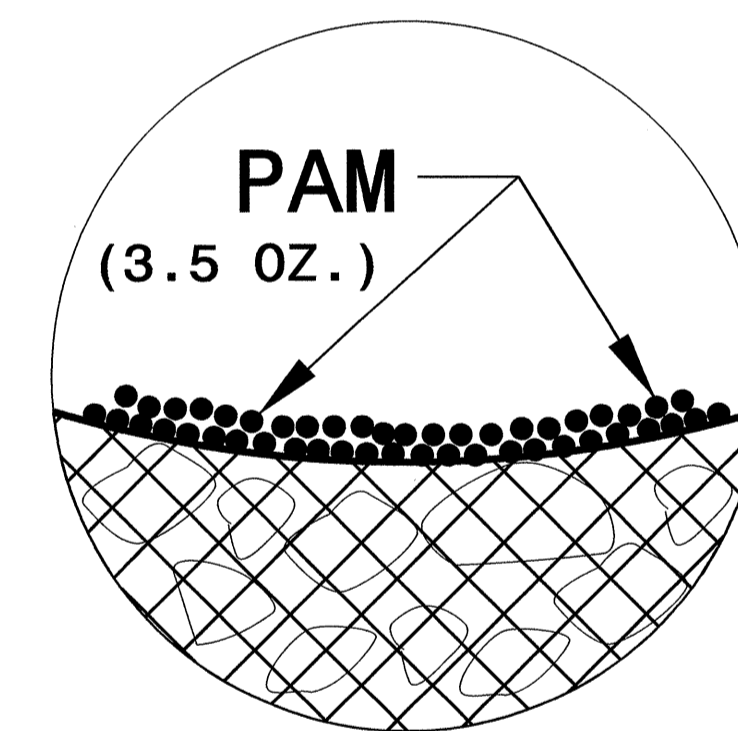
PLAN

NOTES

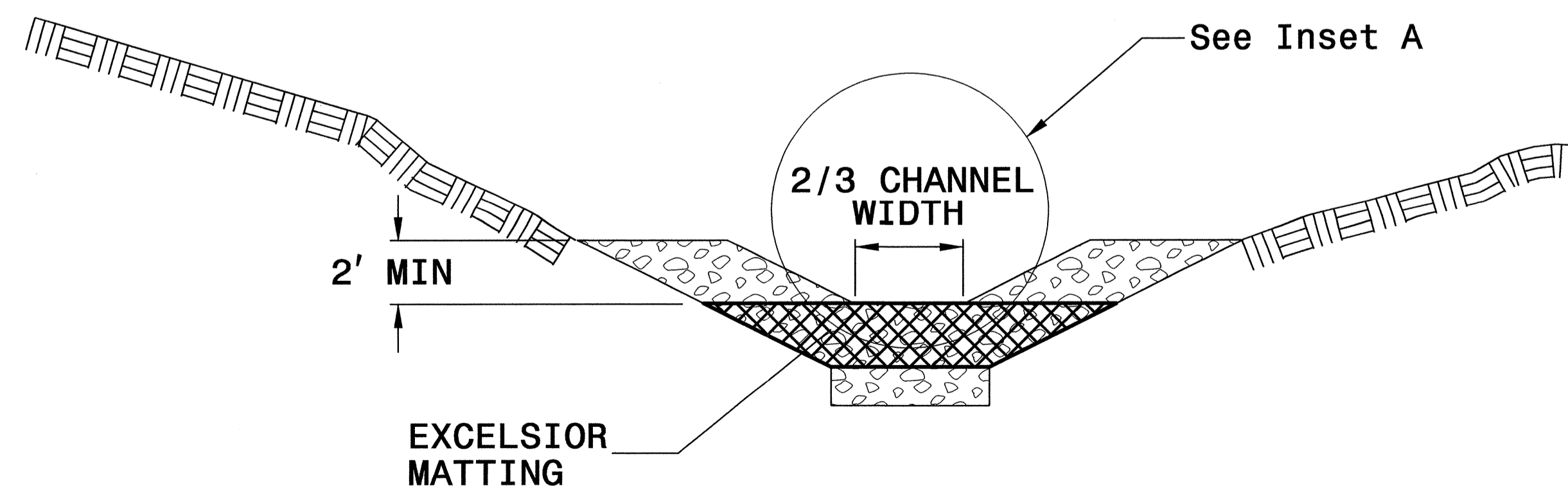
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

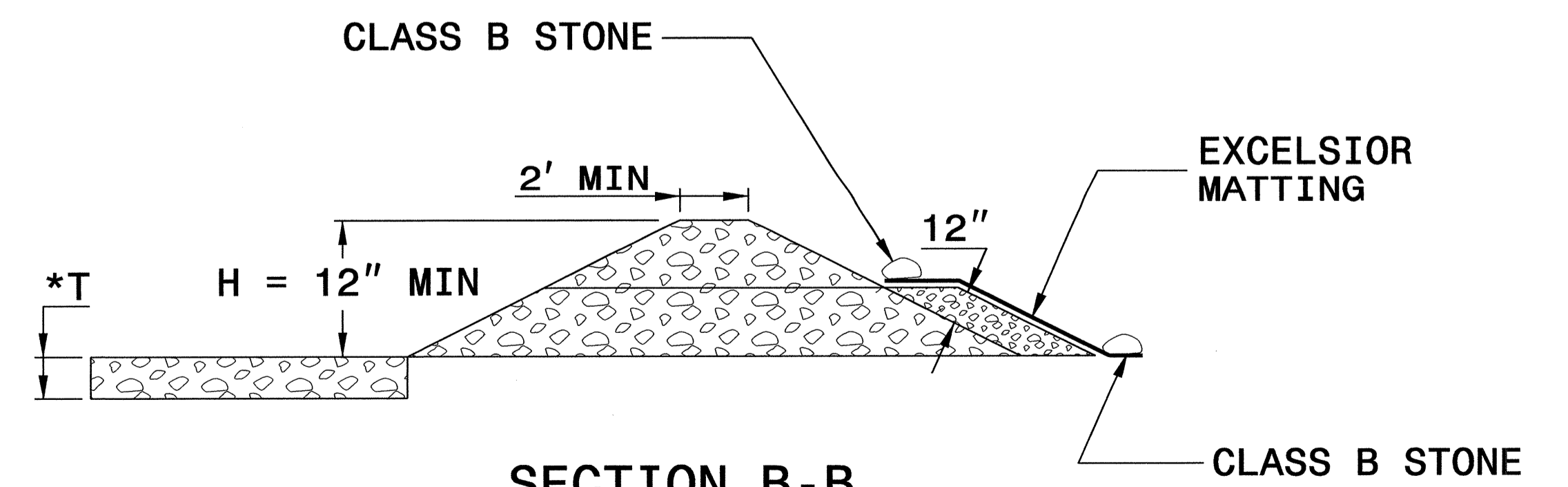
INITIALLY APPLY 3.5 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



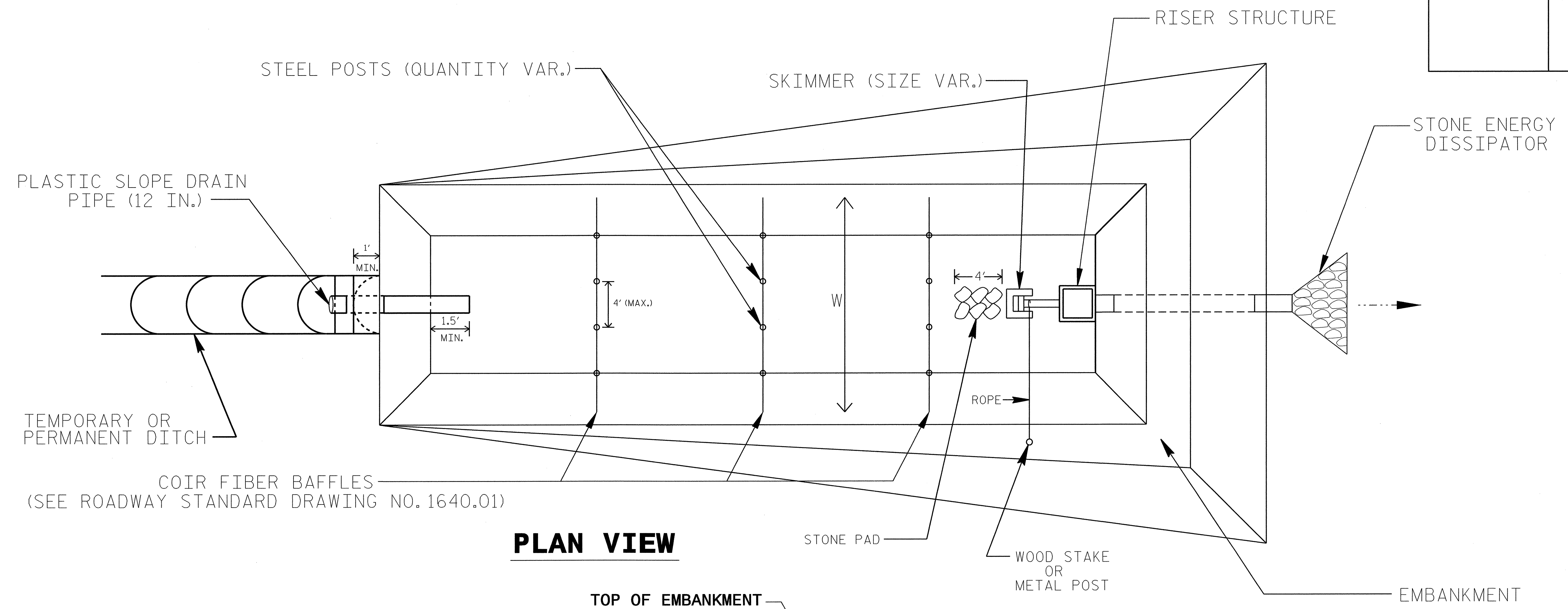
SECTION B-B

*T = 12" MIN., 18" MAX.

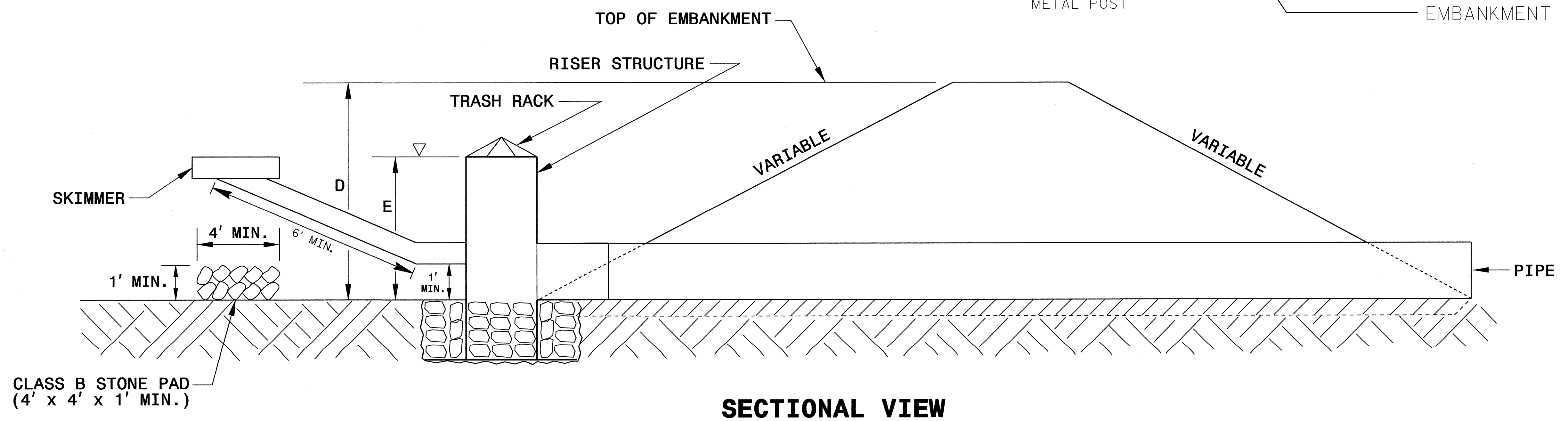
NOT TO SCALE

PROJECT REFERENCE NO. <i>U-2211B</i>	SHEET NO. <i>EC-2C</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STORMWATER BASIN WITH SKIMMER



PLAN VIEW



SECTIONAL VIEW

NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. INSTALL A MINIMUM OF 3 COIR FIBER BAFFLES IN ACCORDANCE WITH ROADWAY STD. DRAWING 1640.01.
3. INSTALL SKIMMER AND COUPLING TO RISER STRUCTURE OR DIRECTLY INTO EMBANKMENT 1 FT. FROM BOTTOM OF BASIN.
4. THE ARM PIPE SHALL HAVE A MINIMUM LENGTH OF 6 FT. BETWEEN THE SKIMMER AND COUPLING.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE AS DIRECTED.
6. THE DIFFERENCE BETWEEN LENGTHS "D" AND "E" REPRESENT THE FREEBOARD AND SHOULD BE 1 FT. MINIMUM.

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>U-2211B</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
6	-L-	31+00	33+00	LT	145
6	-RPC-	22+00	24+00	RT	190
6	-LPB-	10+65	11+67	RT	75
7	-L-	43+00	48+50	LT	740
7	-L-	49+50	53+50	LT	540
10	-Y5-	12+50	22+50	LT	1125
10	-Y5-	15+00	43+00	MED	2845
10	-Y5-	20+00	23+50	RT	245
10	-Y5-	36+50	37+50	LT	135
10	-Y5-	35+00	42+50	RT	845
11	-RPC-	14+75	21+00	RT	840
11	-RPC-	16+65	20+00	LT	380
11	-Y5-	31+50	37+50	LT	675
SUBTOTAL					8780
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					15380
TOTAL					24160
SAY					24500

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
6	-LPB-	14+30	15+06	LT	105
6	-RPB-	16+01	17+50	RT	75
6	-LPC-	12+55	14+00	RT	135
6	-LPC-	14+00	16+74	RT	135
6	-RPC-	22+50	24+00	LT	75
6	-SRI-	10+50	11+50	RT	70
7	-L-	53+00	56+00	LT	405
11	-RPB-	13+22	16+01	RT	140
11	-RPC-	15+70	19+50	RT-BERM	190
11	-Y5-	31+50	33+00	LT	110
SUBTOTAL					1440
ADDITIONAL PSRM TO BE INSTALLED					0
TOTAL					1440
SAY					1550

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>U-2211B</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

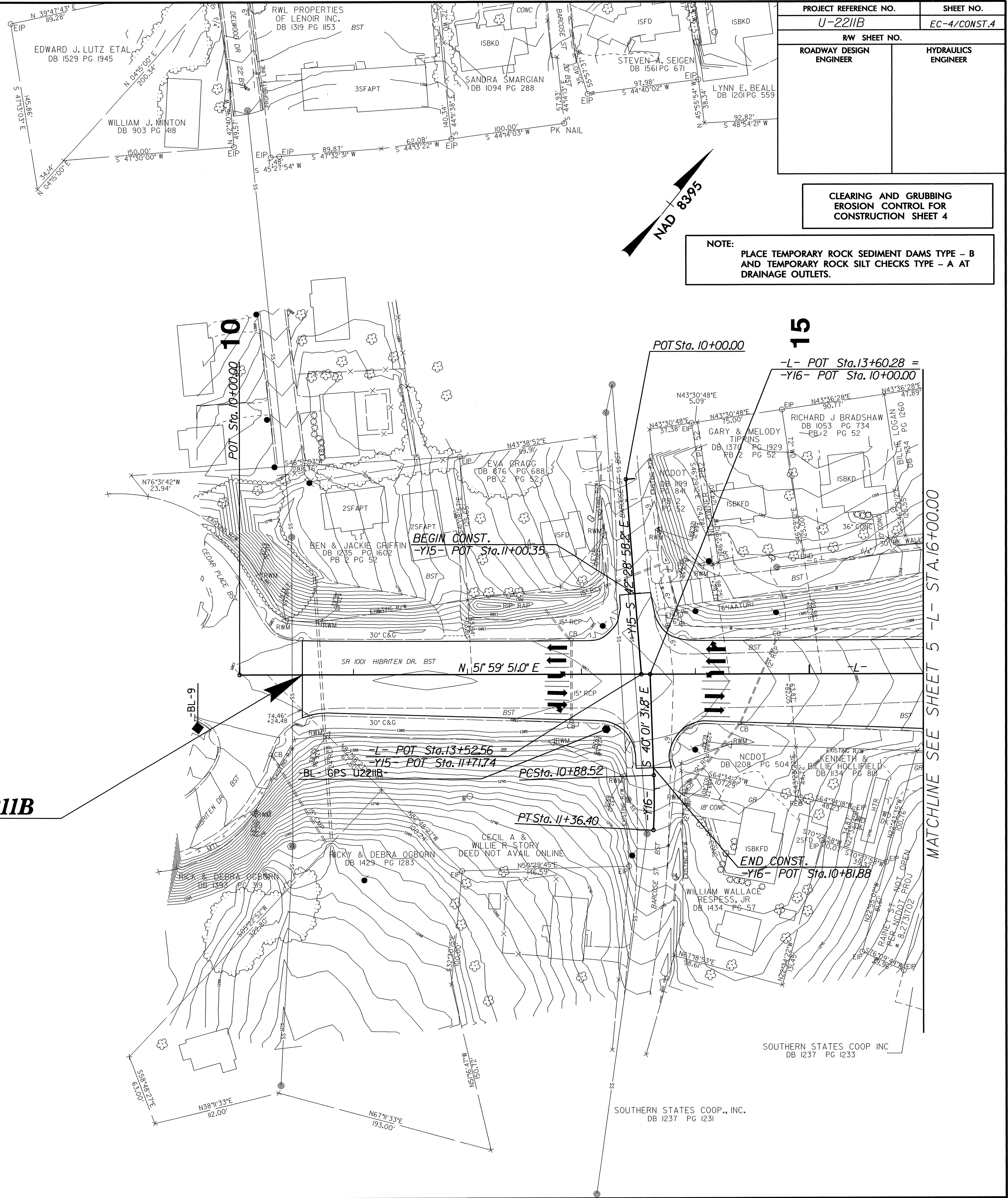
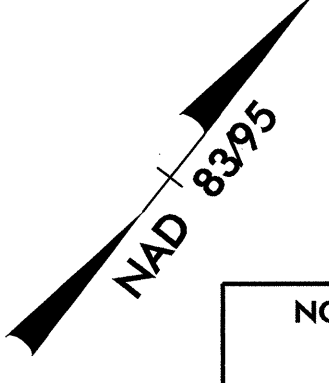
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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

8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
U-2211B		EC-4/CONST.4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

**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.



STA. 10+55 -L- BEGIN TIP PROJECT U-2211B

MATCHLINE SEE SHEET 5 -L- STA. 16+00.00

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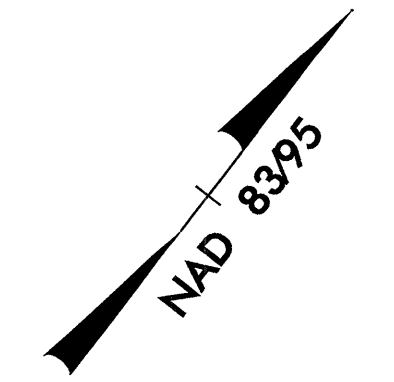
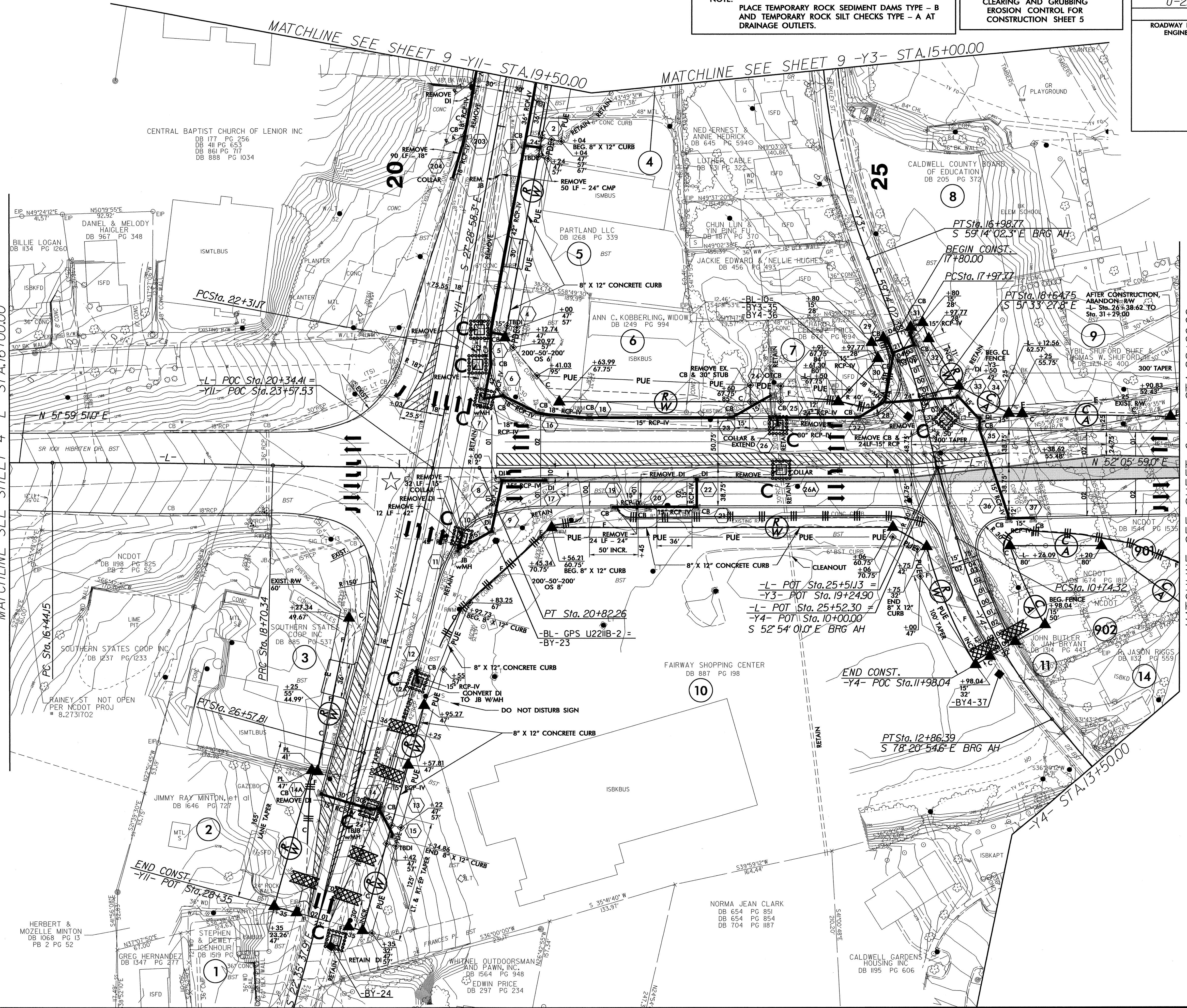
PROJECT REFERENCE NO.	SHEET NO.
U-221B	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 5

MATCHLINE SEE SHEET 4 -L- STA.16+00.00

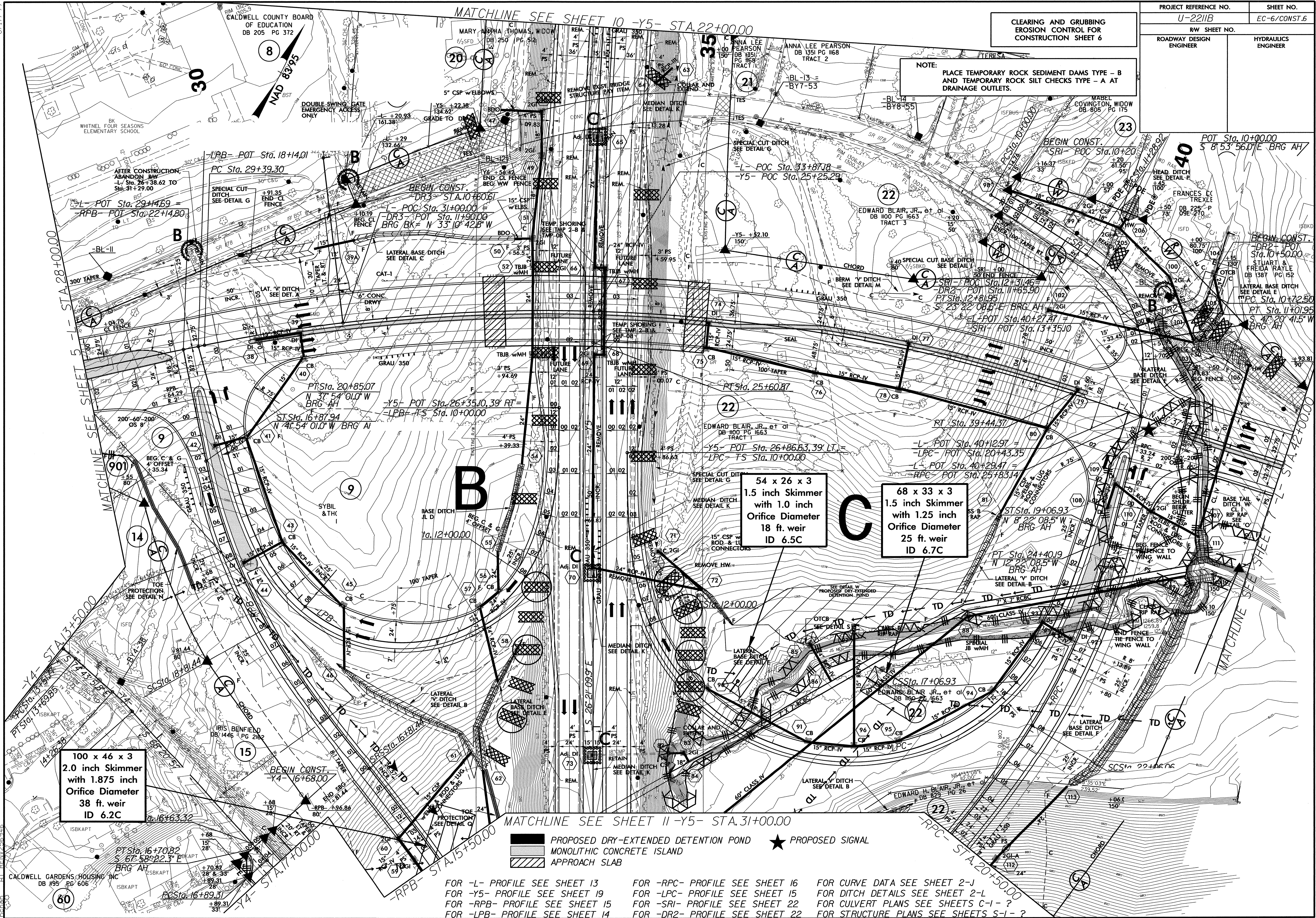
MATCHLINE SEE SHEET 6 -L- STA.28+00.00



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**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6**

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



FOR -L- PROFILE SEE SHEET 13 FOR -RPC- PROFILE SEE SHEET 16 FOR CURVE DATA SEE SHEET 2-J
 FOR -Y5- PROFILE SEE SHEET 19 FOR -LPC- PROFILE SEE SHEET 15 FOR DITCH DETAILS SEE SHEET 2-L
 FOR -RPB- PROFILE SEE SHEET 15 FOR -SRI- PROFILE SEE SHEET 22 FOR CULVERT PLANS SEE SHEETS C-1- ?
 FOR -LPB- PROFILE SEE SHEET 14 FOR -DR2- PROFILE SEE SHEET 22 FOR STRUCTURE PLANS SEE SHEETS S-1- ?

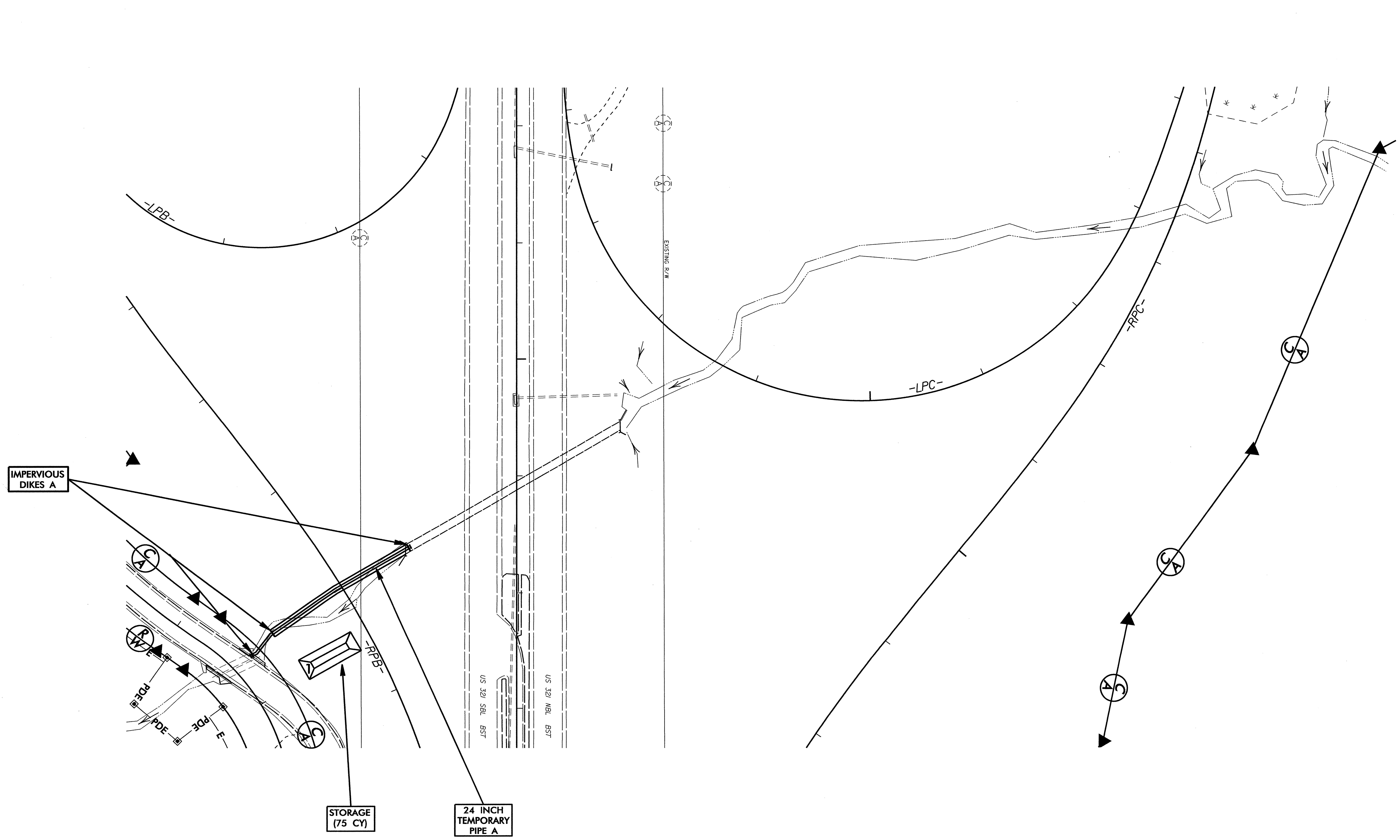
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 12/1

PROJECT REFERENCE NO. U-2211B	SHEET NO. EC-7/CONST.6&11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 31+08.14 -Y5- (SHEET 1 OF 4)

PHASE I

1. CONSTRUCT STILLING BASIN 1 (75 CY).
2. CONSTRUCT IMPERVIOUS DIKES A AND INSTALL 24 INCH TEMPORARY PIPE A, DIVERTING FLOW.
3. CONSTRUCT APPROXIMATELY 137 FEET OF THE DOWNSTREAM CULVERT EXTENSION, STARTING AT THE EXISTING CULVERT OUTLET.
4. REMOVE STILLING BASIN 1, IMPERVIOUS DIKES A, AND TEMPORARY PIPE A.

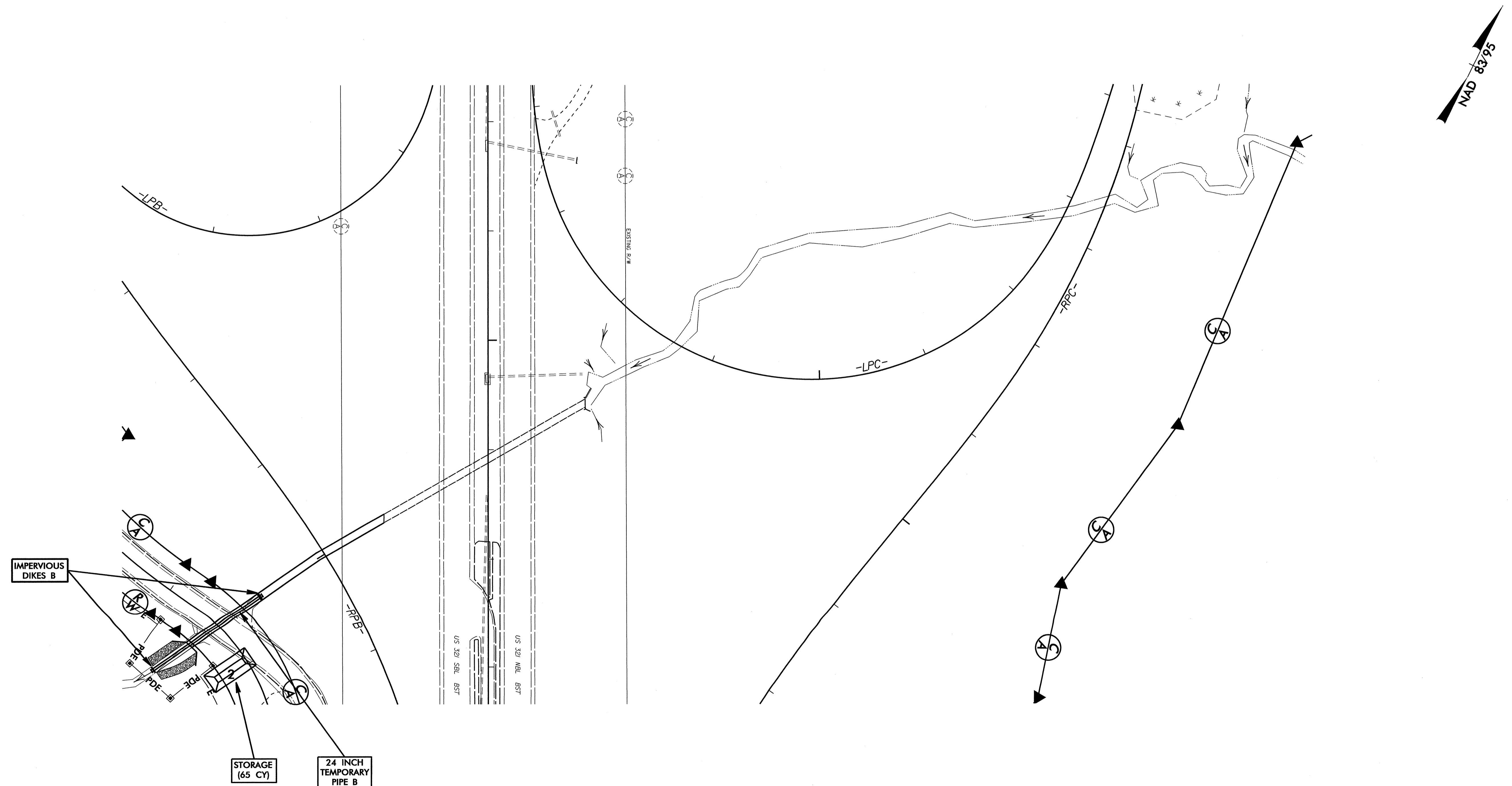


PROJECT REFERENCE NO.	SHEET NO.
U-2211B	EC-8/CONST.6&II
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 31+08.14 -Y5- (SHEET 2 OF 4)

PHASE II

5. CONSTRUCT STILLING BASIN 2 (65 CY).
6. REMOVE EXISTING 60" X 46" CONCRETE PIPES.
7. CONSTRUCT IMPERVIOUS DIKES B AND INSTALL 24 INCH TEMPORARY PIPE B, DIVERTING FLOW.
8. CONSTRUCT REMAINDER OF THE DOWNSTREAM CULVERT EXTENSION, AND ANY NECESSARY OUTLET CHANNEL IMPROVEMENTS.
9. REMOVE STILLING BASIN 2, IMPERVIOUS DIKES B, AND TEMPORARY PIPE B, ALLOWING FLOW THROUGH THE COMPLETED DOWNSTREAM CULVERT EXTENSION.

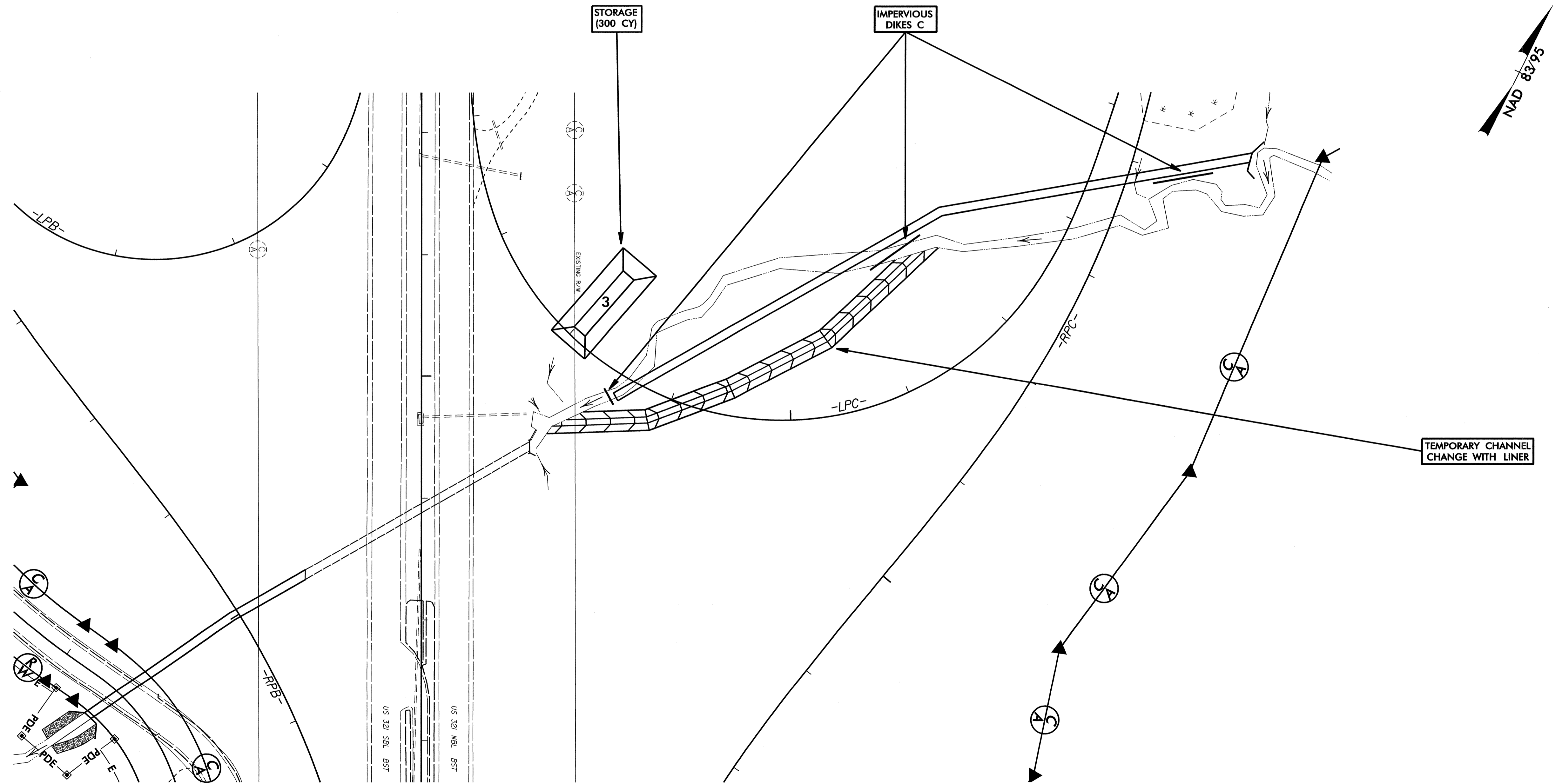


PROJECT REFERENCE NO. U-2211B	SHEET NO. EC-9/CONST.6&11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 31+08.14 -Y5- (SHEET 3 OF 4)

PHASE III

10. CONSTRUCT STILLING BASIN 3 (300 CY).
11. CONSTRUCT IMPERVIOUS DIKES C AND TEMPORARY CHANNEL CHANGE WITH LINER (5 FT. BASE, 3 FT. DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW.
12. CONSTRUCT APPROXIMATELY 565 FEET OF THE UPSTREAM CULVERT EXTENSION, STARTING FROM THE PROPOSED CULVERT HEADWALL.
13. REMOVE IMPERVIOUS DIKES C AND TEMPORARY CHANNEL CHANGE.

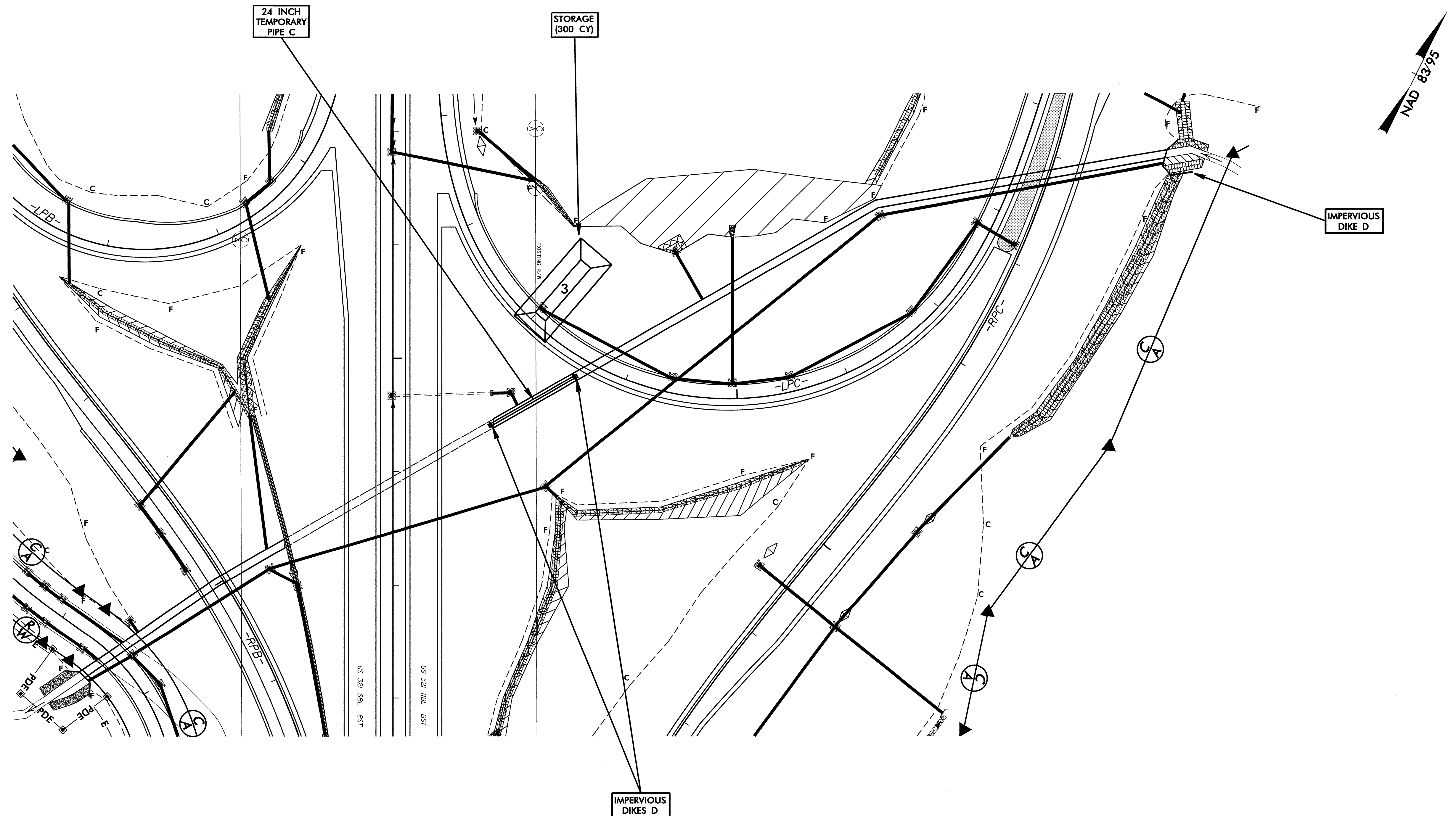


PROJECT REFERENCE NO. U-2211B	SHEET NO. EC-10/CONST.8&11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 31+08.14 -Y5- (SHEET 4 OF 4)

PHASE IV

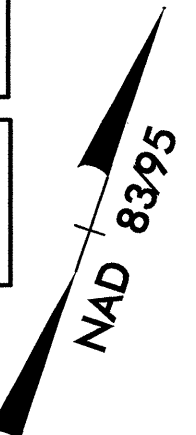
14. CONSTRUCT IMPERVIOUS DIKES D AND INSTALL 24 INCH TEMPORARY PIPE C, DIVERTING FLOW THROUGH THE COMPLETED PORTION OF THE UPSTREAM CULVERT EXTENSION AND TEMPORARY PIPE.
15. CONSTRUCT THE REMAINDER OF THE UPSTREAM CULVERT EXTENSION.
16. CONSTRUCT ANY NECESSARY UPSTREAM CHANNEL IMPROVEMENTS.
17. REMOVE IMPERVIOUS DIKES D AND TEMPORARY PIPE C, ALLOWING FLOW THROUGH THE COMPLETED CULVERT.
18. REMOVE STILLING BASIN 3.
19. COMPLETE ROADWAY.



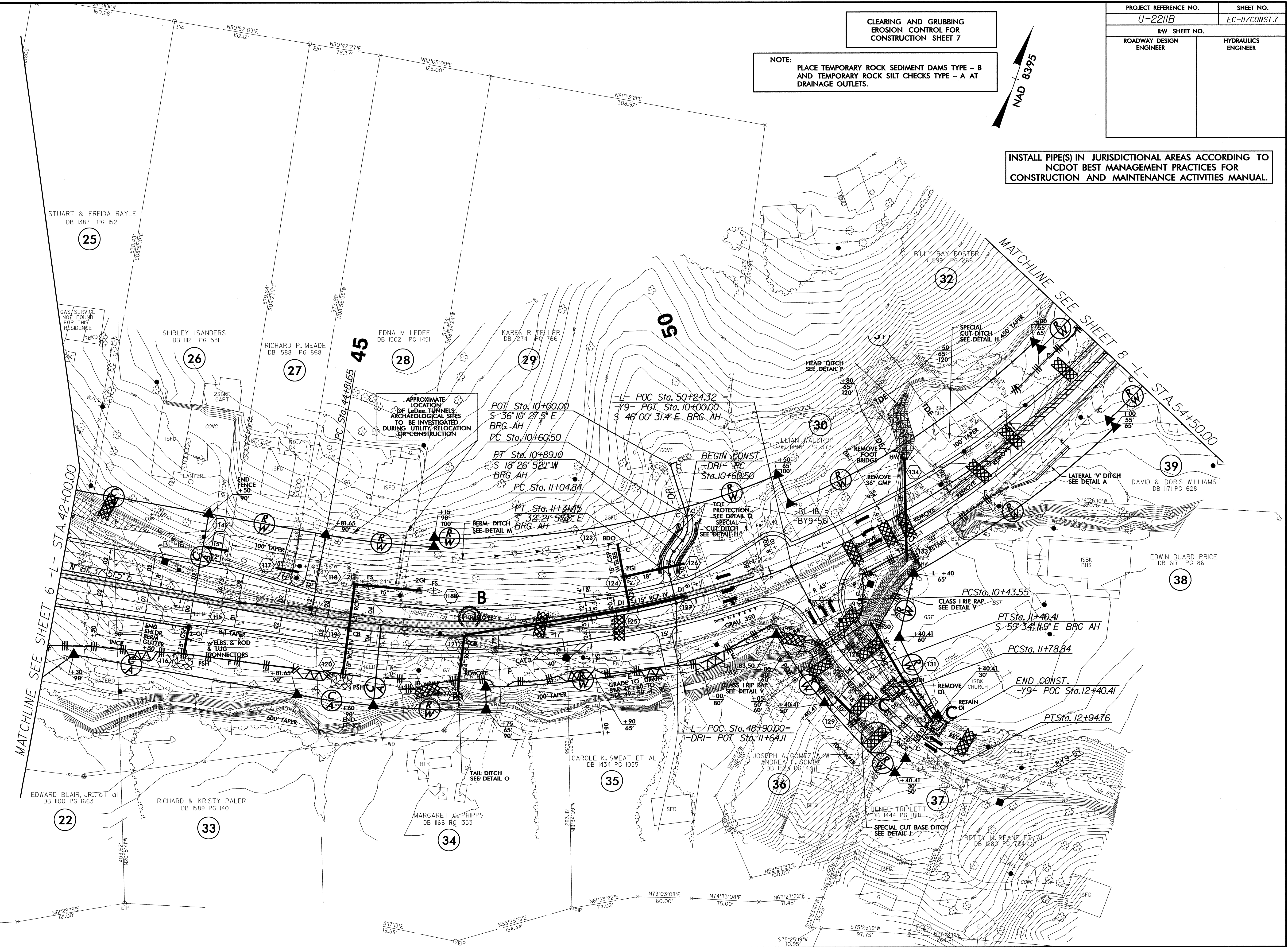
PROJECT REFERENCE NO.	SHEET NO.
U-2211B	EC-11/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**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.



**INSTALL PIPE(S) IN JURISDICTIONAL AREAS ACCORDING TO
NCDOT BEST MANAGEMENT PRACTICES FOR
CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.**



MATCHLINE SEE SHEET 6 - L - STA. 42+00.00

MATCHLINE SEE SHEET 8 - L - STA. 54+50.00

APPROXIMATE
LOCATION
OF Ledge TUNNELS
ARCHAEOLOGICAL SITES
TO BE INVESTIGATED
DURING UTILITY RELOCATION
OR CONSTRUCTION

POT Sta. 10+00.00
S 36° 10' 27.5" E
BRG AH
PC Sta. 10+60.50
PT Sta. 10+89.10
S 18° 26' 52.1" W
BRG AH
PC Sta. 11+04.84

-L- POC Sta. 50+24.32 =
-Y9- POT Sta. 10+00.00
S 46° 00' 31.4" E BRG AH

PC Sta. 10+43.55
CLASS I RIP RAP
SEE DETAIL V
PT Sta. 11+40.41
S 59° 34' 11.9" E BRG AH
PC Sta. 11+78.84
END CONST.
-Y9- POC Sta. 12+40.41
PT Sta. 12+94.76

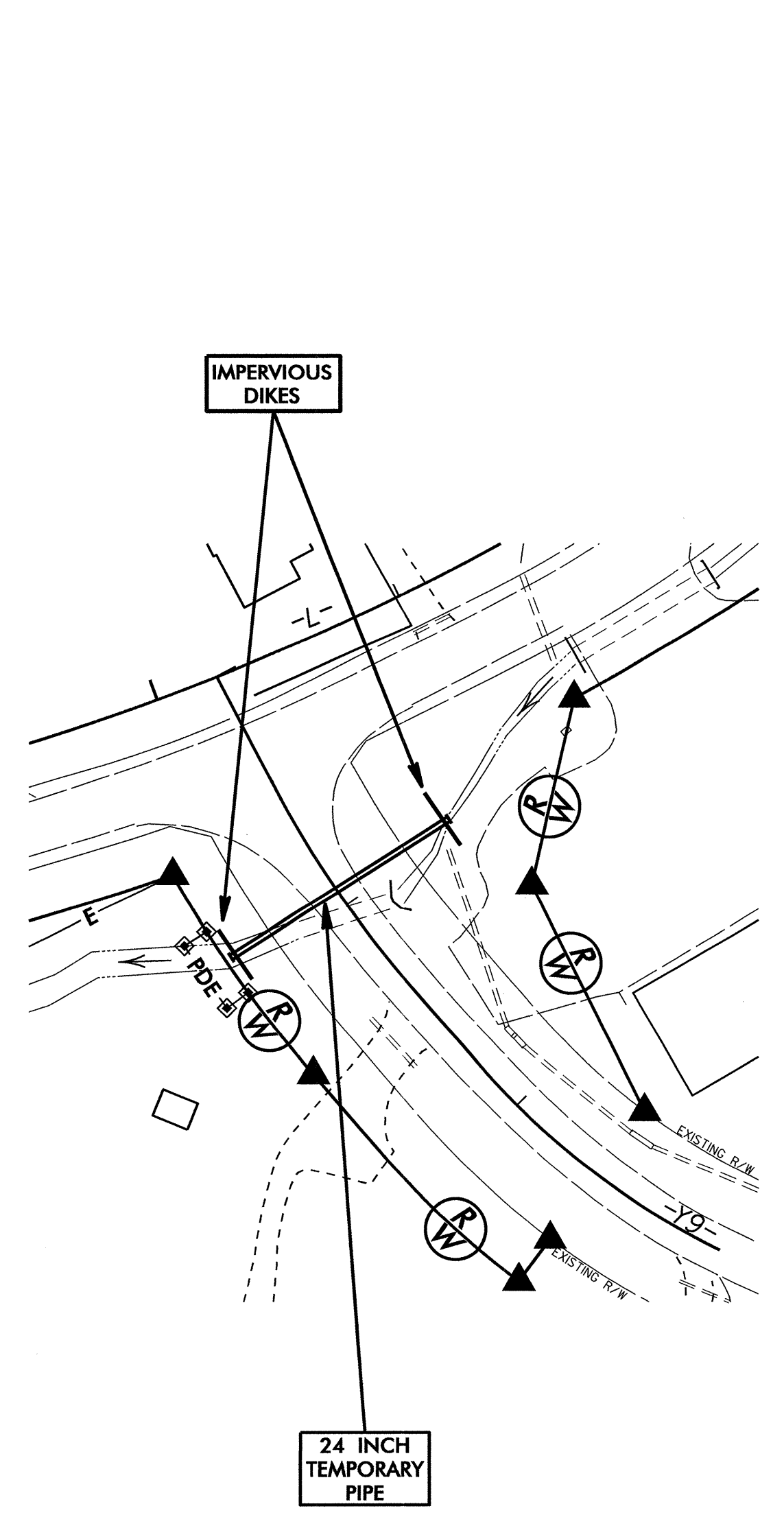
-L- POC Sta. 48+90.00 =
-DRI- POT Sta. 11+64.11

PROJECT REFERENCE NO.	SHEET NO.
U-2211B	EC-12/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 10+94 -Y9-

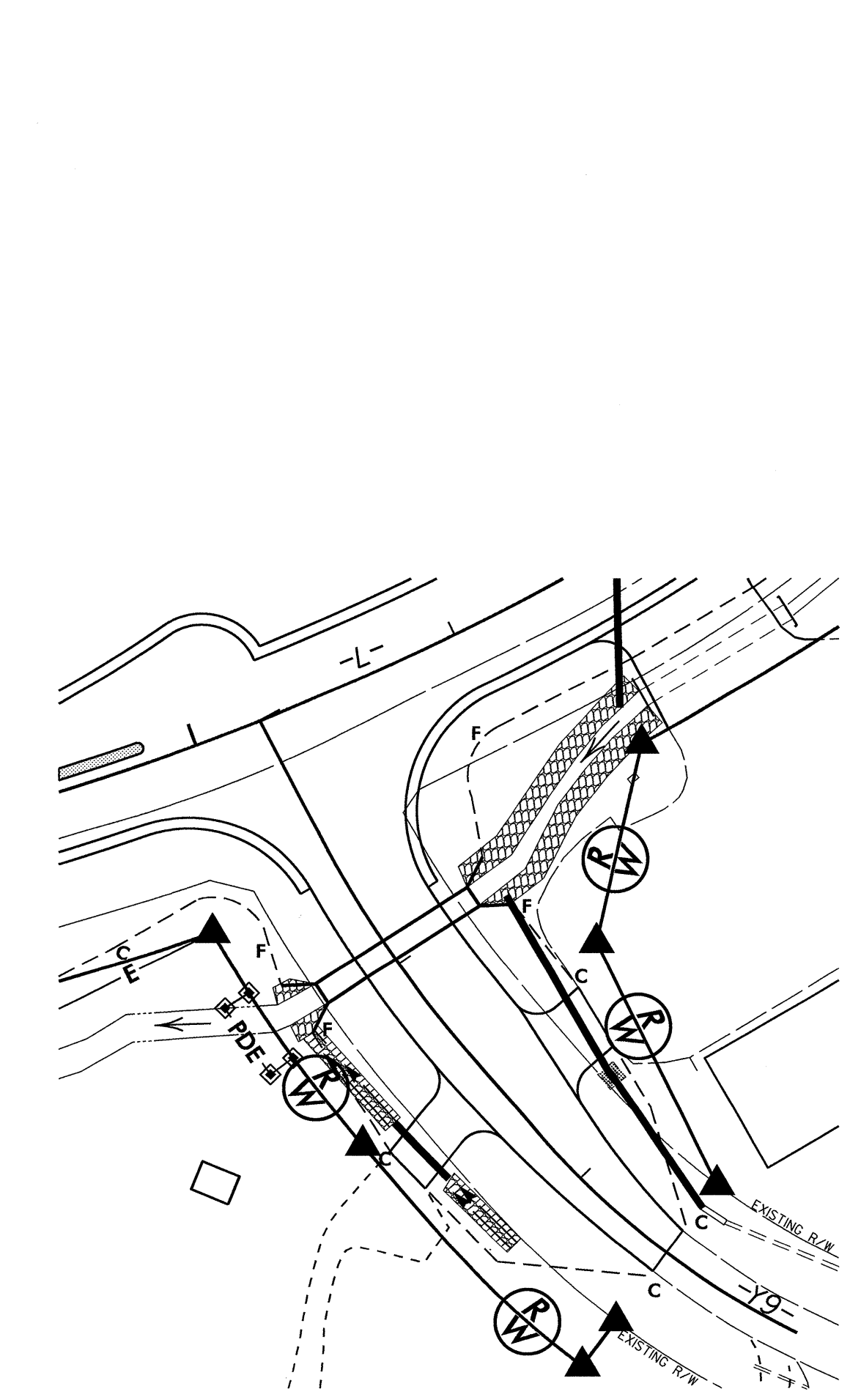
PHASE I

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT CULVERT CONSTRUCTION.
2. CLOSE -Y9- TO TRAFFIC.
3. REMOVE EXISTING 72" CMP AND EXCAVATE FOR PROPOSED CULVERT.
4. CONSTRUCT IMPERVIOUS DIKES AND INSTALL 24 INCH TEMPORARY PIPE, DIVERTING FLOW.



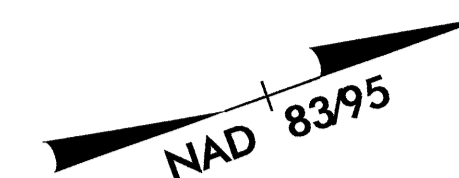
PHASE II

5. CONSTRUCT THE PROPOSED CULVERT AND ANY NECESSARY UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
6. REMOVE IMPERVIOUS DIKES AND TEMPORARY PIPE, ALLOWING FLOW THROUGH THE PROPOSED CULVERT.
7. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S).
8. COMPLETE ROADWAY.



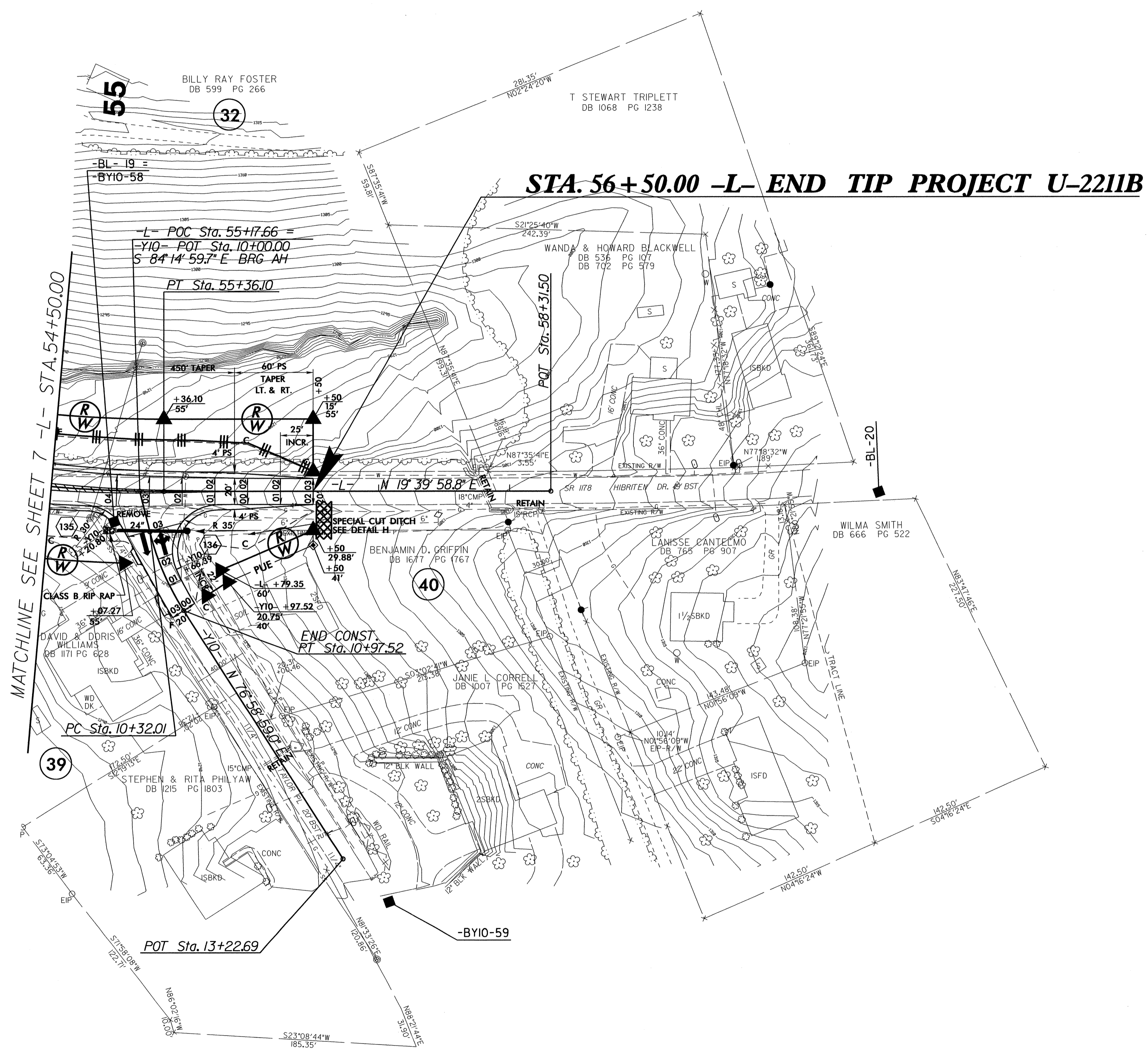
8/17/99

PROJECT REFERENCE NO. U-2211B	SHEET NO. EC-13/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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.



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AT RENEY256346

8/17/99

**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.

PROJECT REFERENCE NO. U-2211B		SHEET NO. EC-14/CONST.9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



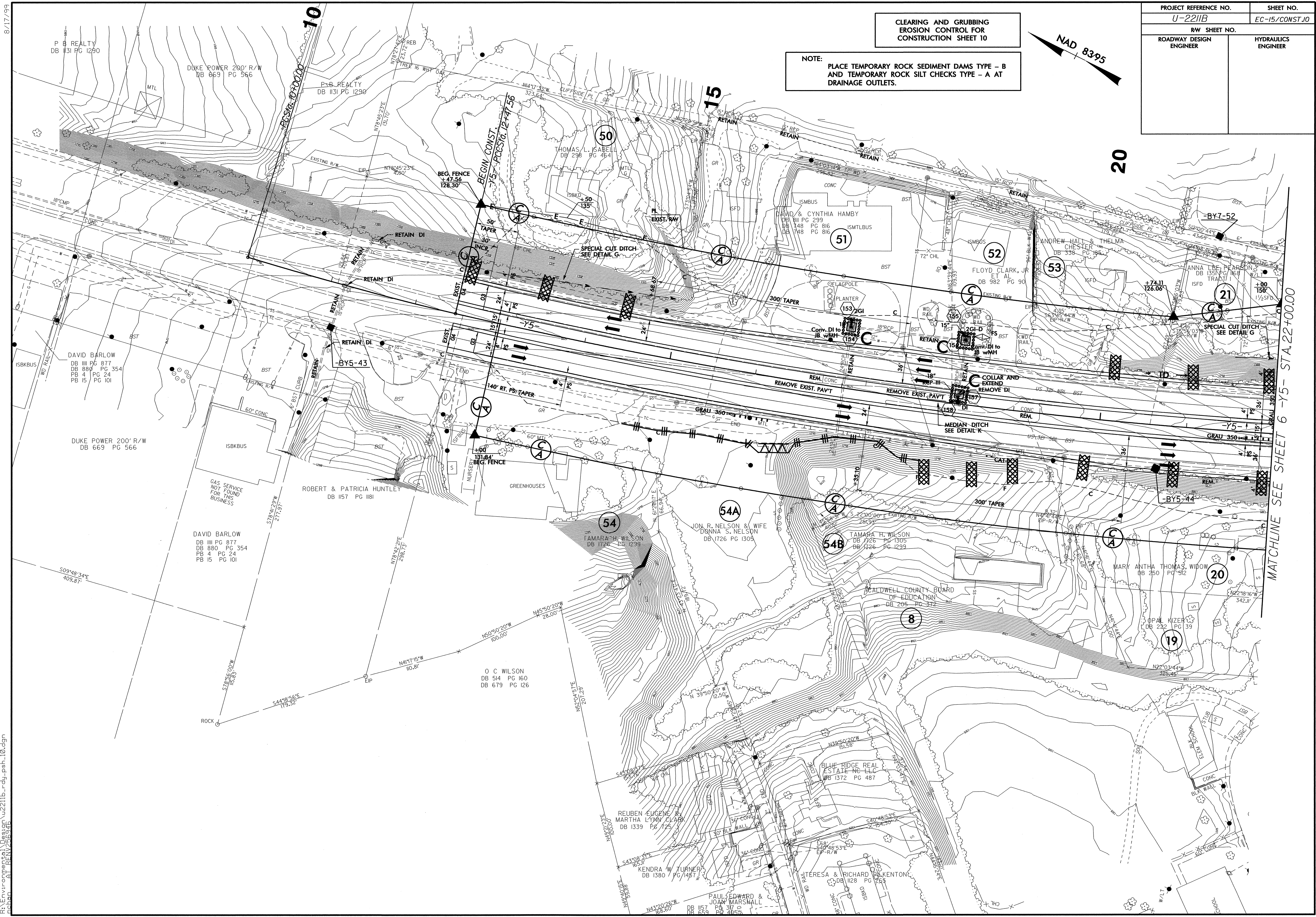
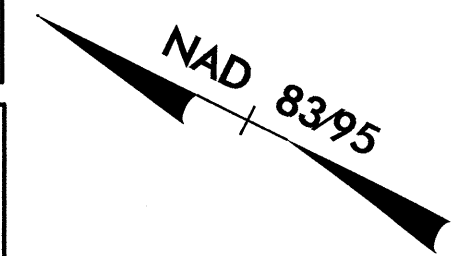
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chen AT BENV268416

MATCHLINE SEE SHEET 5 -Y3- STA.15+00.00
MATCHLINE SEE SHEET 5 -Y11- STA.19+50.00

PROJECT REFERENCE NO.	SHEET NO.
U-221IB	EC-15/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.



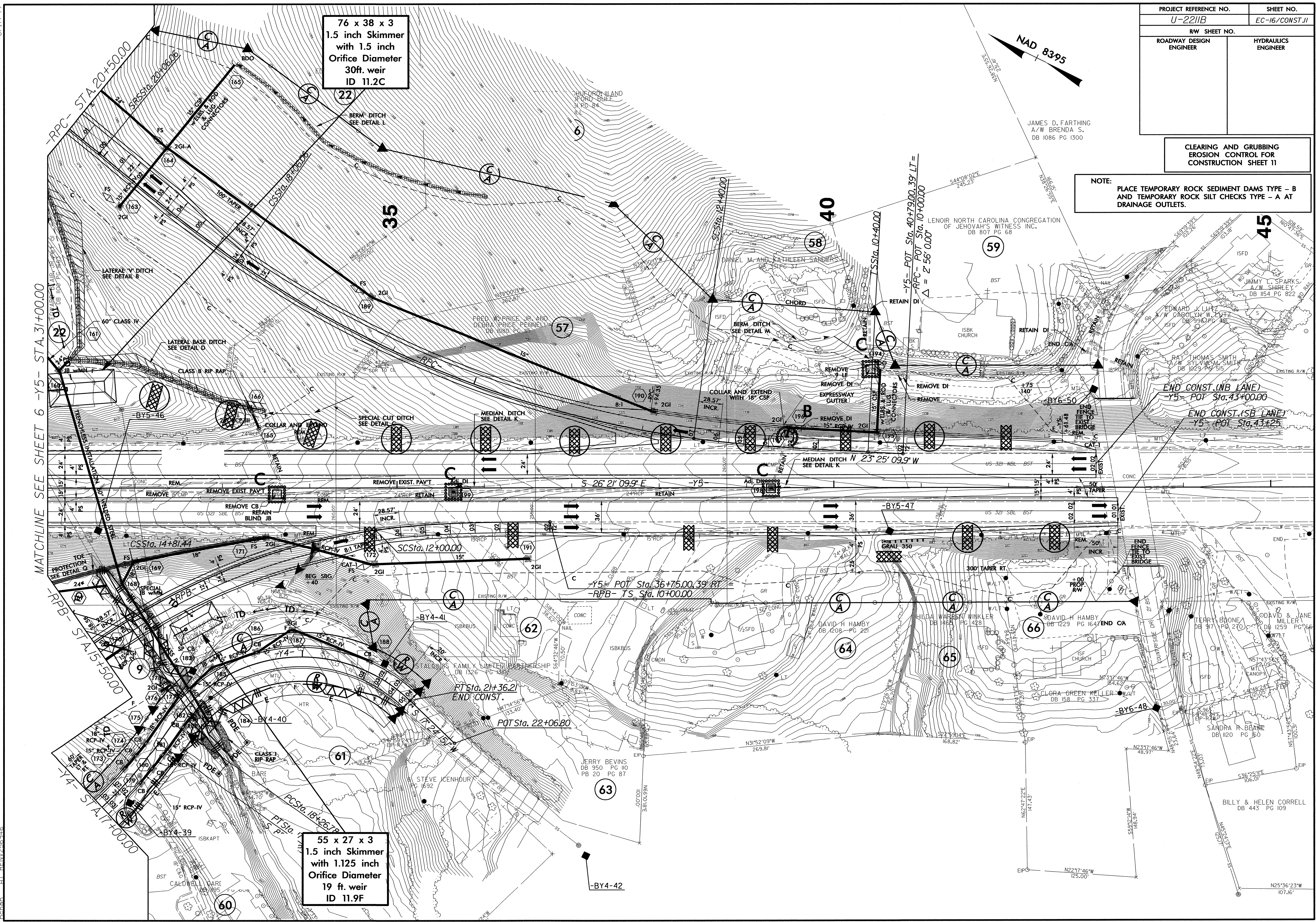
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 created at RNN\265346

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-221B	EC-16/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

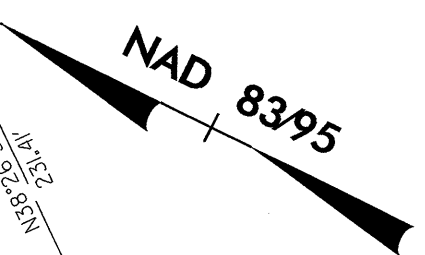
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



MATCHLINE SEE SHEET 6 -Y5- STA.31+00.00

-Y4- STA.15+50.00
-Y4- STA.17+00.00

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benan AT BENV265916



JAMES D. FARTHING
A/W BRENDA S.
DB 1086 PG 1300

-Y5- POT Sta. 40+79.00, 39' LT =
-RPC- POT Sta. 10+00.00
Δ = 2' 56" 0.00"

LENOIR NORTH CAROLINA CONGREGATION
OF JEHOVAH'S WITNESS INC.
DB 807 PG 68

END CONST. (NB LANE)
-Y5- POT Sta. 43+00.00
END CONST. (SB LANE)
-Y5- POT Sta. 43+25

76 x 38 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
30ft. weir
ID 11.2C

55 x 27 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
19 ft. weir
ID 11.9F

JERRY BEVINS
DB 950 PG 110
PB 20 PG 87

BILLY & HELEN CORRELL
DB 443 PG 109

CLORA GREEN KELLER
DB 158 PG 337

DAVID H HAMBY
DB 1229 PG 1647 END CA

DAVID H HAMBY
DB 208 PG 221

HILDA WILHELM WINKLER
DB 148 PG 428

TAIRINGS FAMILY LIMITED PARTNERSHIP
DB 1326 PG 138

STEVE ICENHOUR
DB 1592

STEVE ICENHOUR
DB 1592

STEVE ICENHOUR
DB 1592

STEVE ICENHOUR
DB 1592

STEVE ICENHOUR
DB 1592

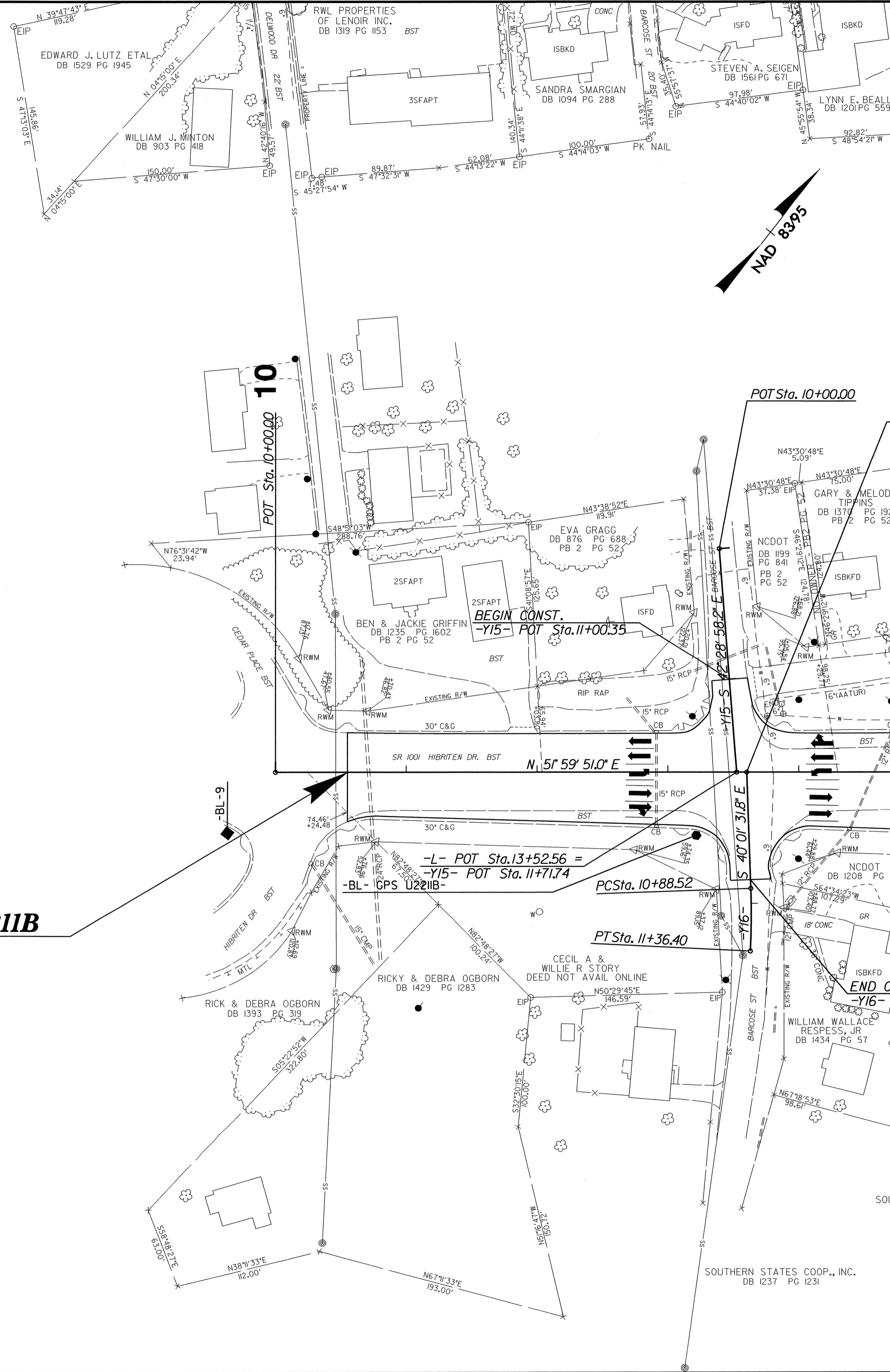
STEVE ICENHOUR
DB 1592

STEVE ICENHOUR
DB 1592

STEVE ICENHOUR
DB 1592

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27-JAN-2012 11:20
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PROJECT REFERENCE NO.	SHEET NO.
U-2211B	EC-17/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



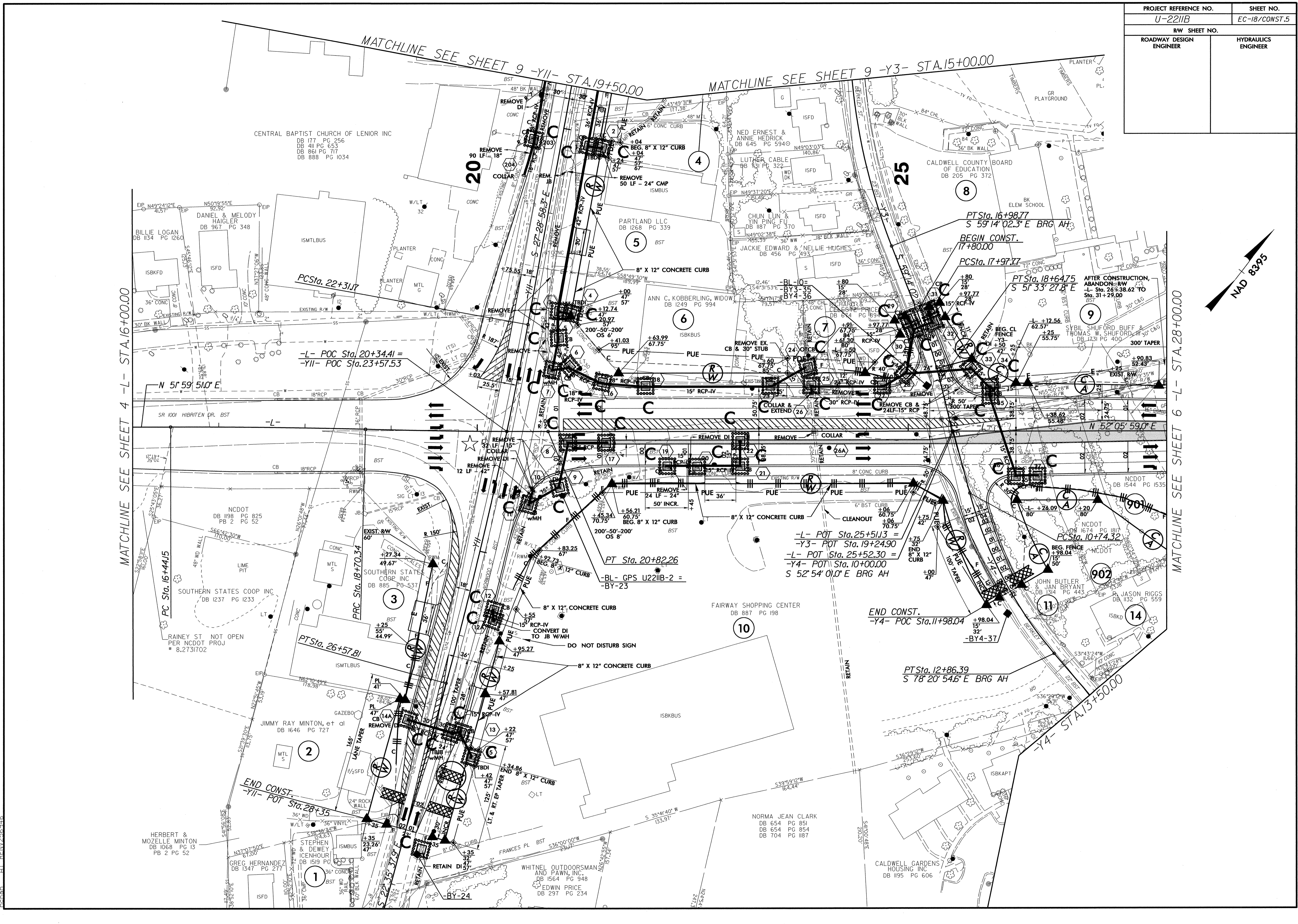
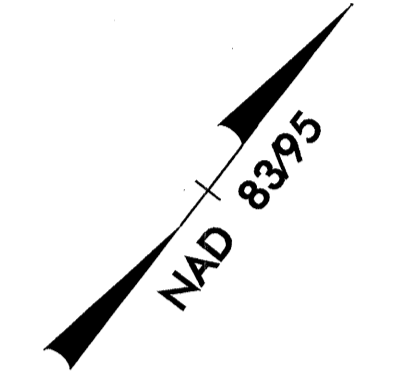
STA. 10+55 -L- BEGIN TIP PROJECT U-2211B

MATCHLINE SEE SHEET 5 -L- STA. 16+00.00

PROJECT REFERENCE NO.	SHEET NO.
U-2211B	EC-18/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

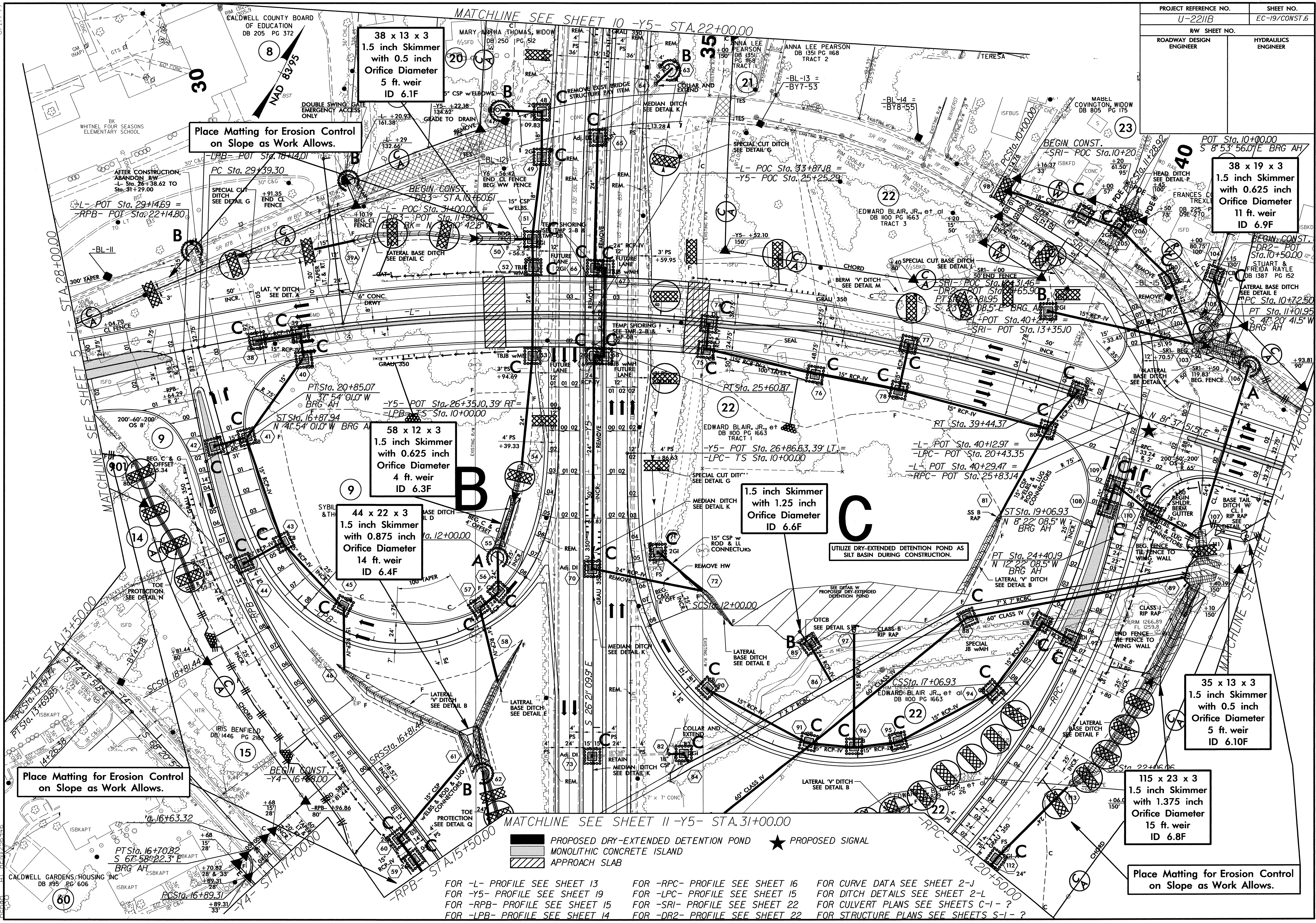
MATCHLINE SEE SHEET 4 -L- STA.16+00.00

MATCHLINE SEE SHEET 6 -L- STA.28+00.00



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psh_5

PROJECT REFERENCE NO.	SHEET NO.
U-2211B	EC-19/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



38 x 13 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
5 ft. weir
ID 6.1F

Place Matting for Erosion Control
on Slope as Work Allows.

38 x 19 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
11 ft. weir
ID 6.9F

58 x 12 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 6.3F

44 x 22 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
14 ft. weir
ID 6.4F

1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
ID 6.6F

UTILIZE DRY-EXTENDED DETENTION POND AS
SILT BASIN DURING CONSTRUCTION.

35 x 13 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
5 ft. weir
ID 6.10F

115 x 23 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
15 ft. weir
ID 6.8F

Place Matting for Erosion Control
on Slope as Work Allows.

- PROPOSED DRY-EXTENDED DETENTION POND
- MONOLITHIC CONCRETE ISLAND
- APPROACH SLAB
- ★ PROPOSED SIGNAL

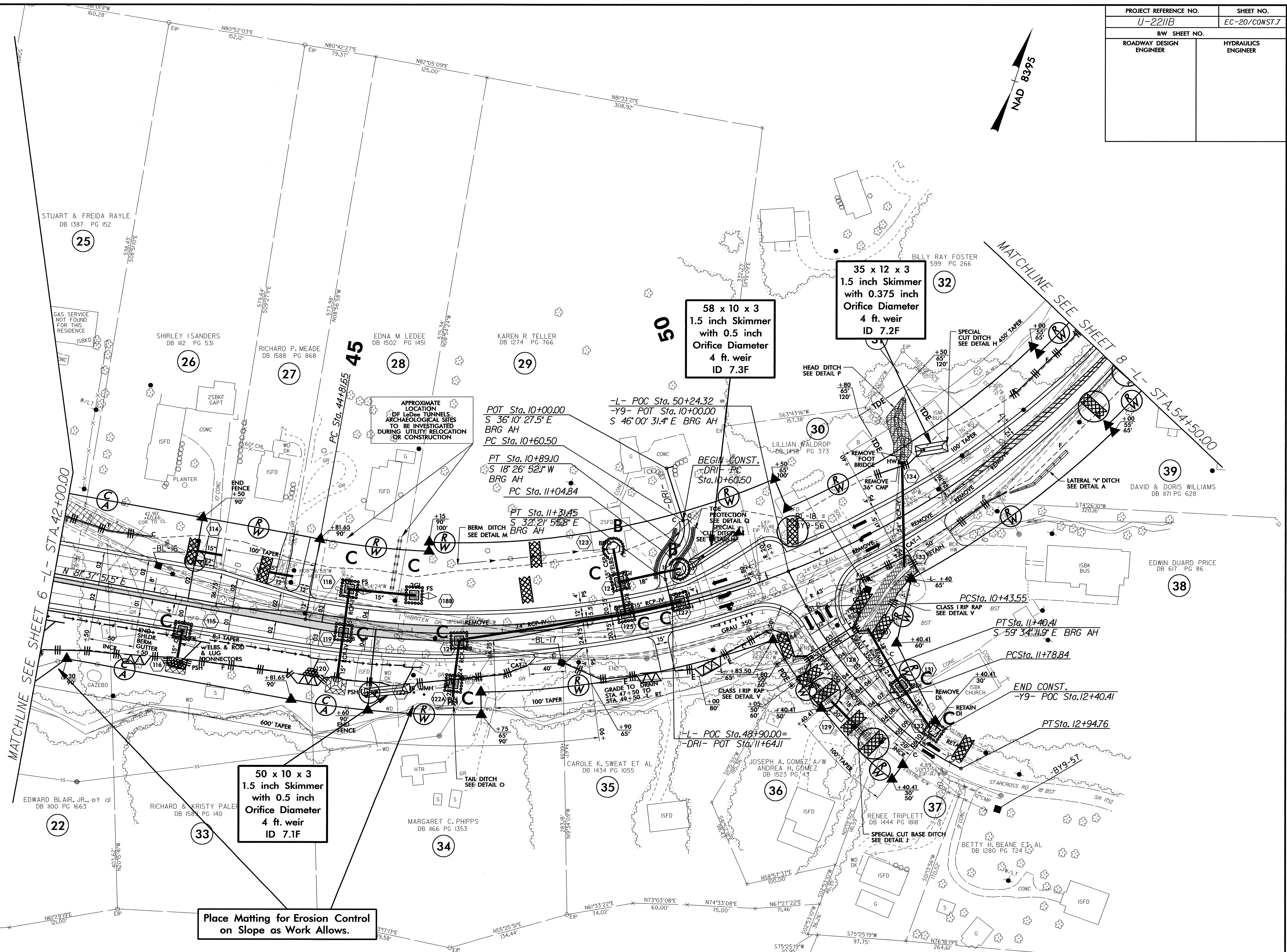
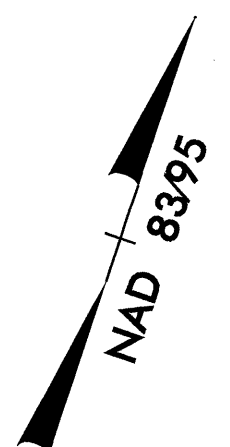
FOR -L- PROFILE SEE SHEET 13
FOR -Y5- PROFILE SEE SHEET 19
FOR -RPB- PROFILE SEE SHEET 15
FOR -LPB- PROFILE SEE SHEET 14

FOR -RPC- PROFILE SEE SHEET 16
FOR -LPC- PROFILE SEE SHEET 15
FOR -SRI- PROFILE SEE SHEET 22
FOR -DR2- PROFILE SEE SHEET 22

FOR CURVE DATA SEE SHEET 2-J
FOR DITCH DETAILS SEE SHEET 2-L
FOR CULVERT PLANS SEE SHEETS C-1- ?
FOR STRUCTURE PLANS SEE SHEETS S-1- ?

27-JAN-2012 11:46 R:\Environment\1\Design\U2211B-Rdy_psh_6.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-2211B	EC-20/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



58 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 7.3F

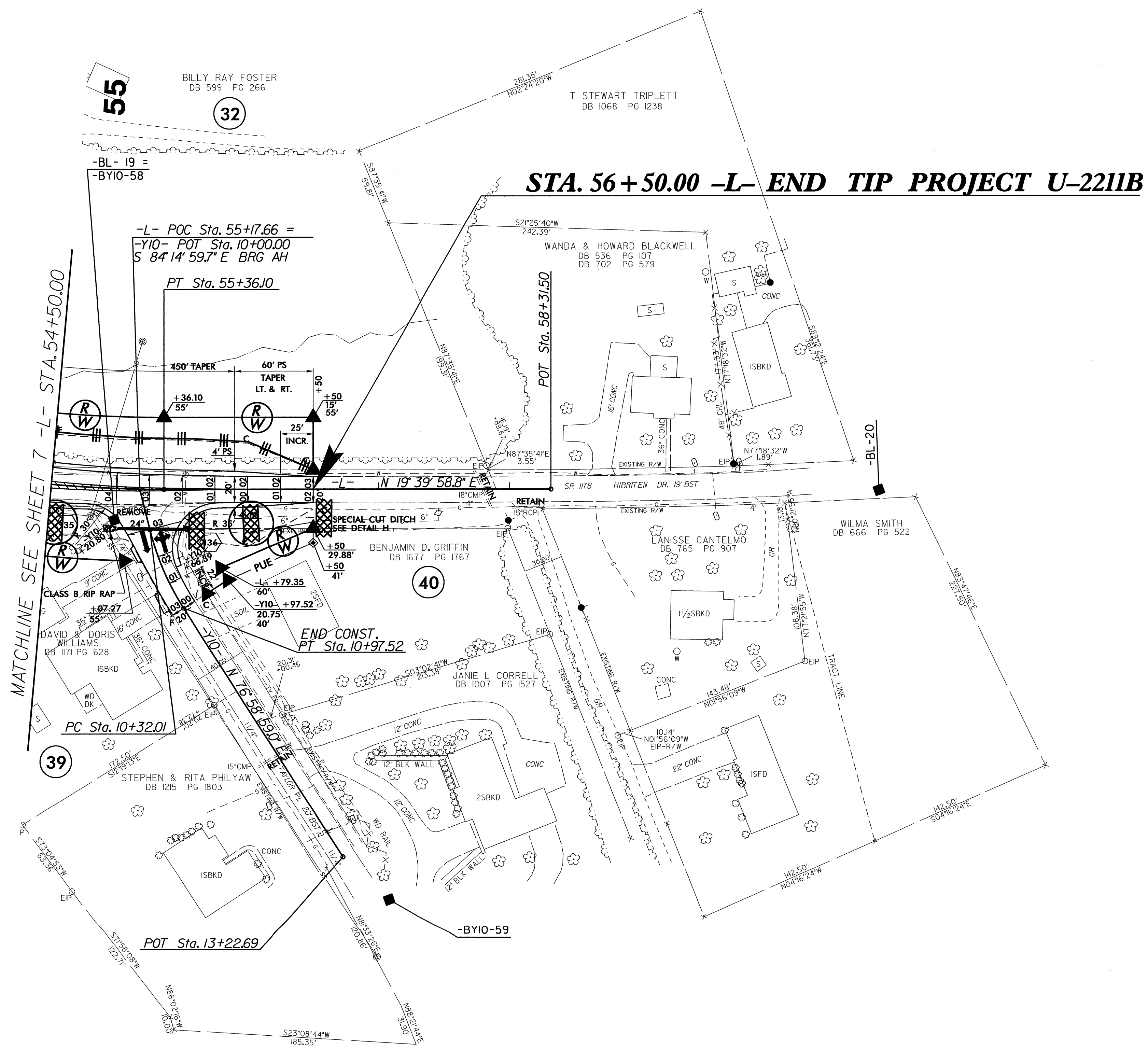
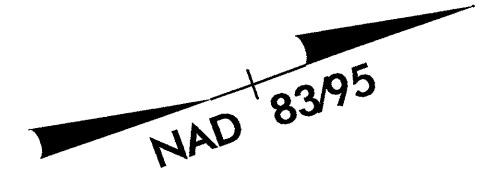
35 x 12 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 7.2F

50 x 10 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 7.1F

Place Matting for Erosion Control
on Slope as Work Allows.

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 dchad 61 REMV2639.F6

PROJECT REFERENCE NO. <i>U-221B</i>	SHEET NO. <i>EC-21/CONST.B</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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PROJECT REFERENCE NO.	SHEET NO.
U-2211B	EC-22/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SIGNAL UPGRADE

MATCHLINE SEE SHEET 5 -Y1- STA.15+00.00

MATCHLINE SEE SHEET 5 -Y11- STA.19+50.00

BEGIN CONST.
 -Y11- POT Sta.15+68.54
 -Y3REV- POT Sta.10+00.00
 N 59°48'50.6" E BRG AH

-Y11- POT Sta.16+50.56 =
 -Y14- POT Sta.10+00.00
 S 59°36'13.0" W BRG AH

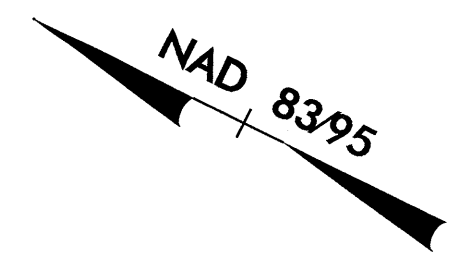
END CONST.
 -Y14- POT Sta.10+64.00

-BY-22 =
-BY3-32

AILEEN MINTON, JOAN LOWE
 MARTHA OXFORD, KATHLEEN MILLER
 A NORTH CAROLINA PARTNERSHIP
 DB 1058 PG 421

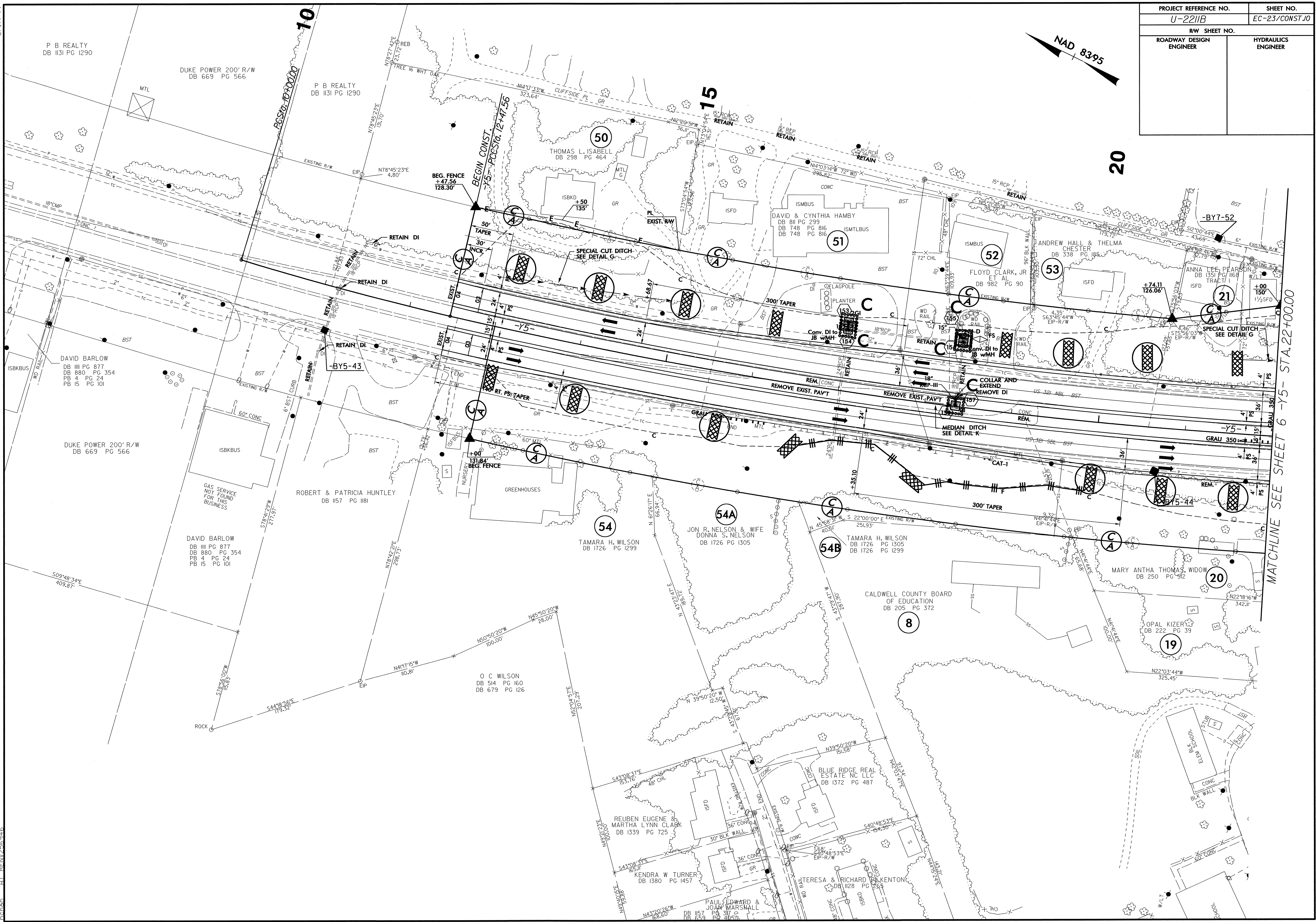
LOWES FOODS STORES
 DB 670 PG 523

PROJECT REFERENCE NO.	SHEET NO.
U-2211B	EC-23/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



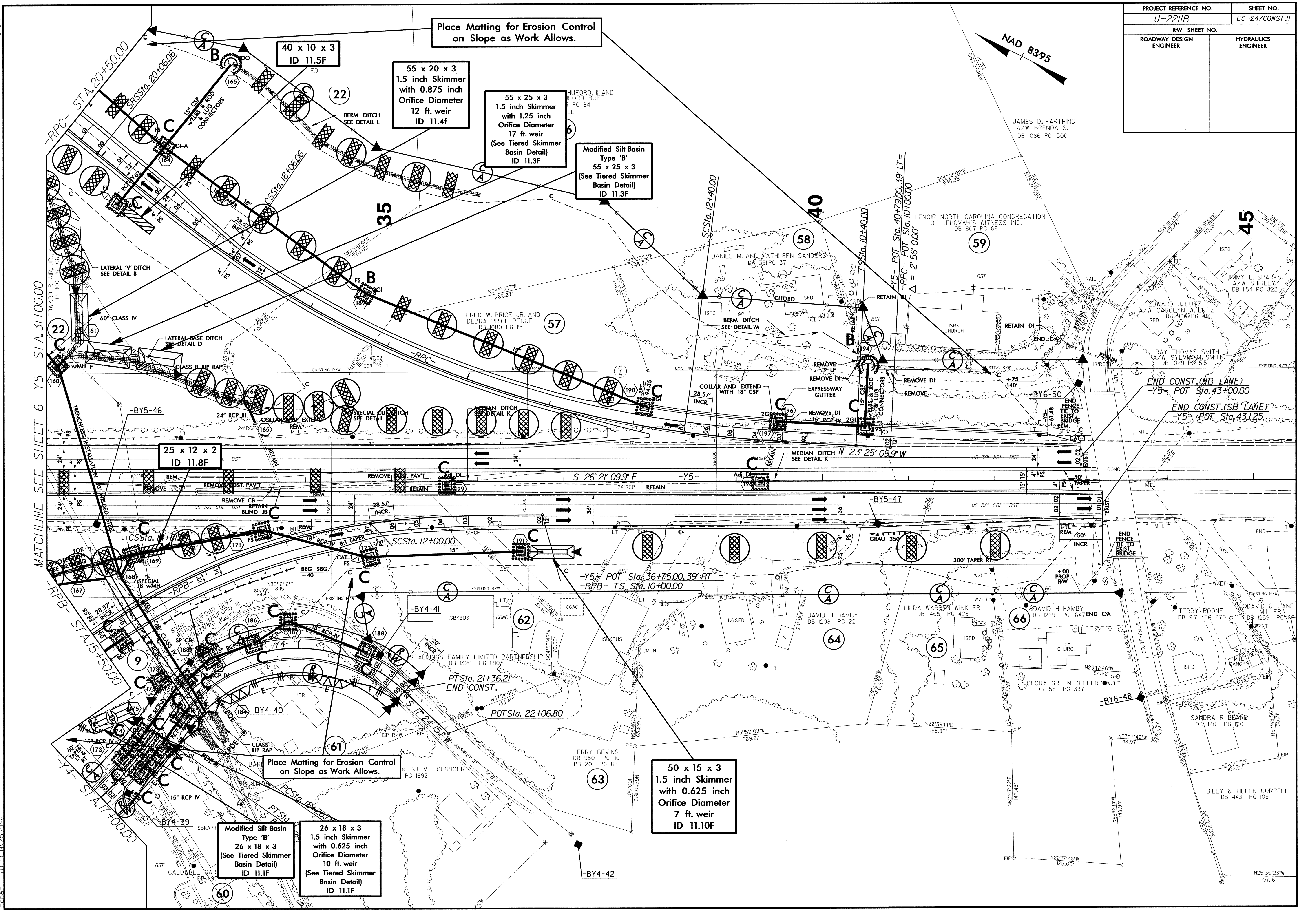
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MATCHLINE SEE SHEET 6 -Y5- STA. 22+00.00

PROJECT REFERENCE NO.	SHEET NO.
U-2211B	EC-24/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



Place Matting for Erosion Control on Slope as Work Allows.

40 x 10 x 3
ID 11.5F

55 x 20 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
12 ft. weir
ID 11.4f

55 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
17 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 11.3F

Modified Silt Basin
Type 'B'
55 x 25 x 3
(See Tiered Skimmer
Basin Detail)
ID 11.3F

25 x 12 x 2
ID 11.8F

Place Matting for Erosion Control on Slope as Work Allows.

Modified Silt Basin
Type 'B'
26 x 18 x 3
(See Tiered Skimmer
Basin Detail)
ID 11.1F

26 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
10 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 11.1F

50 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
7 ft. weir
ID 11.10F

MATCHLINE SEE SHEET 6 -Y5- STA.31+00.00

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