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PROJECT: R-3826

TIP R-3826

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
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	EW CFW
	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	SK
	Tiered Skimmer Basin	SK
	Infiltration Basin	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

MARTIN COUNTY

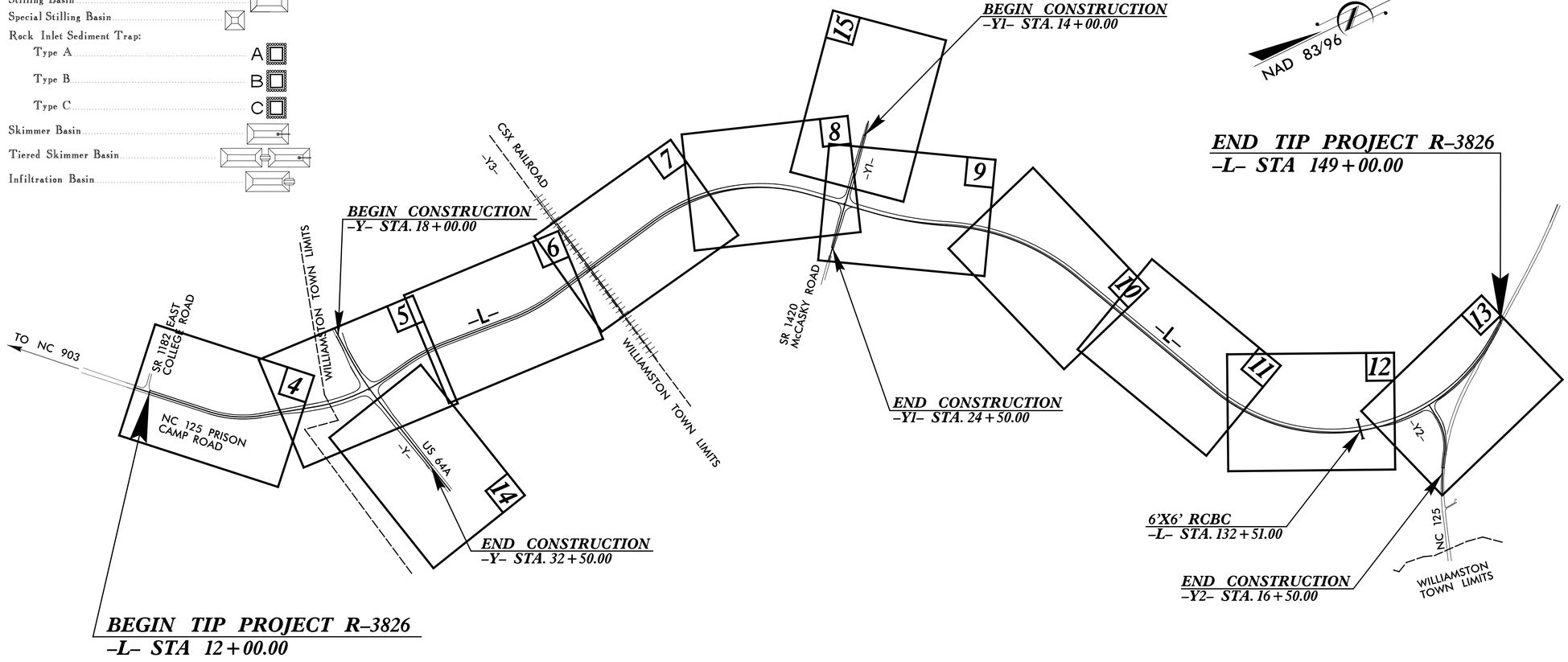
NC 125 WILLIAMSTON BYPASS FROM SR 1182 (EAST COLLEGE ROAD) TO NC 125 NORTHWEST OF WILLIAMSTON

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-3826	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
34553.1.1	STP-125(1)	PE
34553.4.FR1	STP-0125(1)	R/W
34553.4.FRU1	STP-0125(1)	UTILITIES

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



GRAPHIC SCALE

0
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

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

Prepared In the Office of:

ICA ENGINEERING

5121 KINGDOM WAY, SUITE 100
RALEIGH NC 27607
NC License No. F-0258

Designed by:

STACEY H. BAILEY, P.E. **3074**

NAME *LEVEL III CERTIFICATION NO.*

Reviewed In the Office of:

ROADSIDE ENVIRONMENTAL UNIT

1 South Wilmington St.
Raleigh, NC 27611

2012 STANDARD SPECIFICATIONS

Reviewed by:

JEFF WALSTON, PE

Roadway Standard Drawings

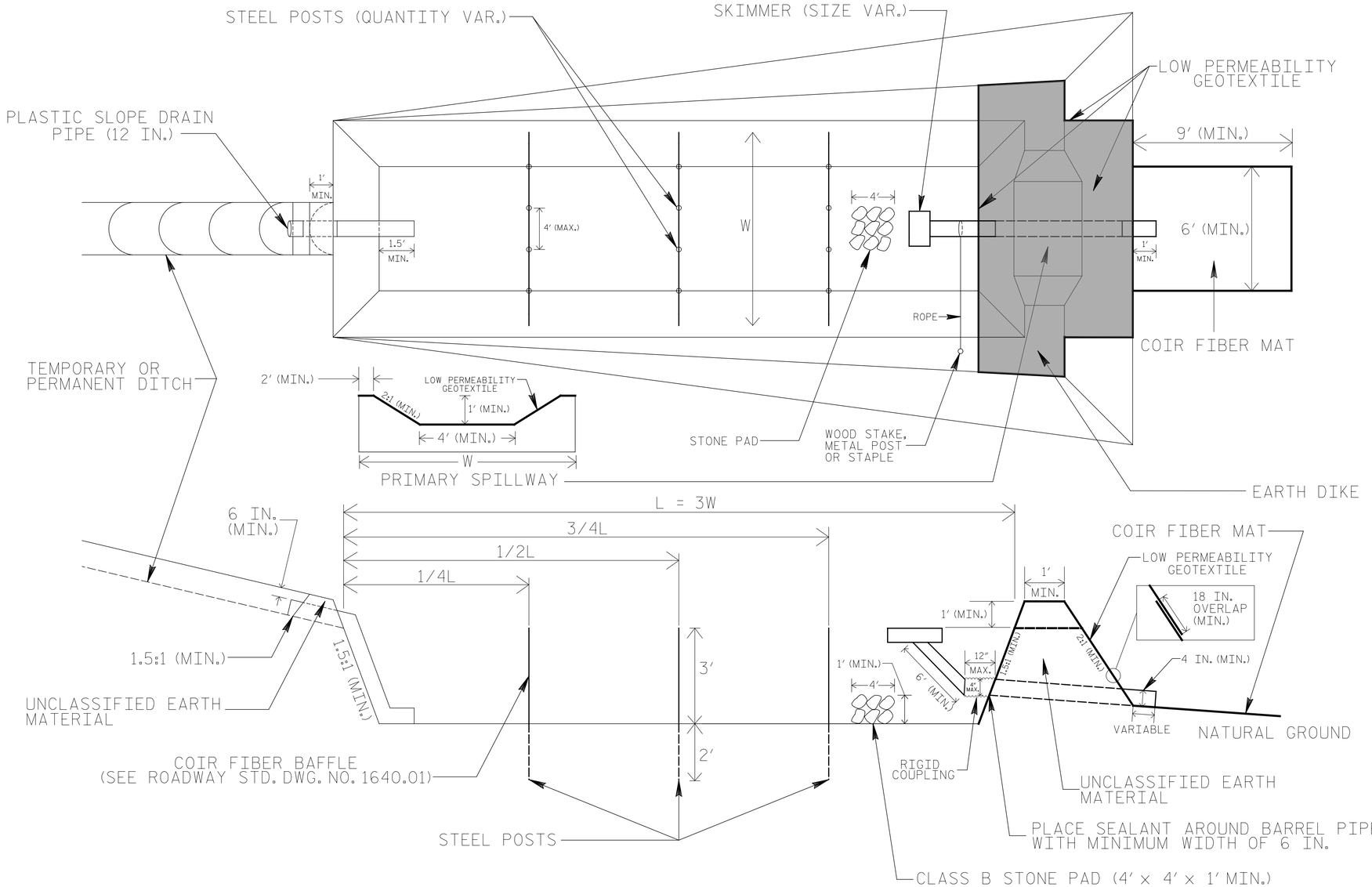
The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

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		

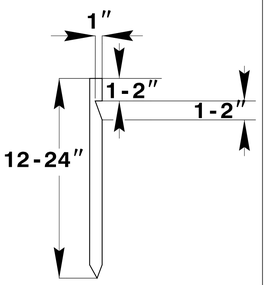
8/6/2016
R3826_Erosion_control_tsh.dgn
ICA ENGINEERING, INC.

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-2
R/W SHEET NO.	

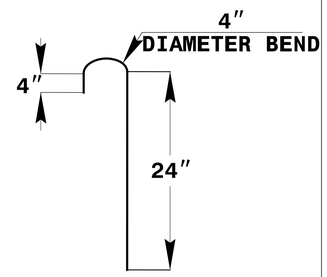
SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



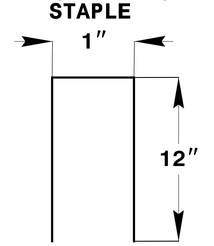
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

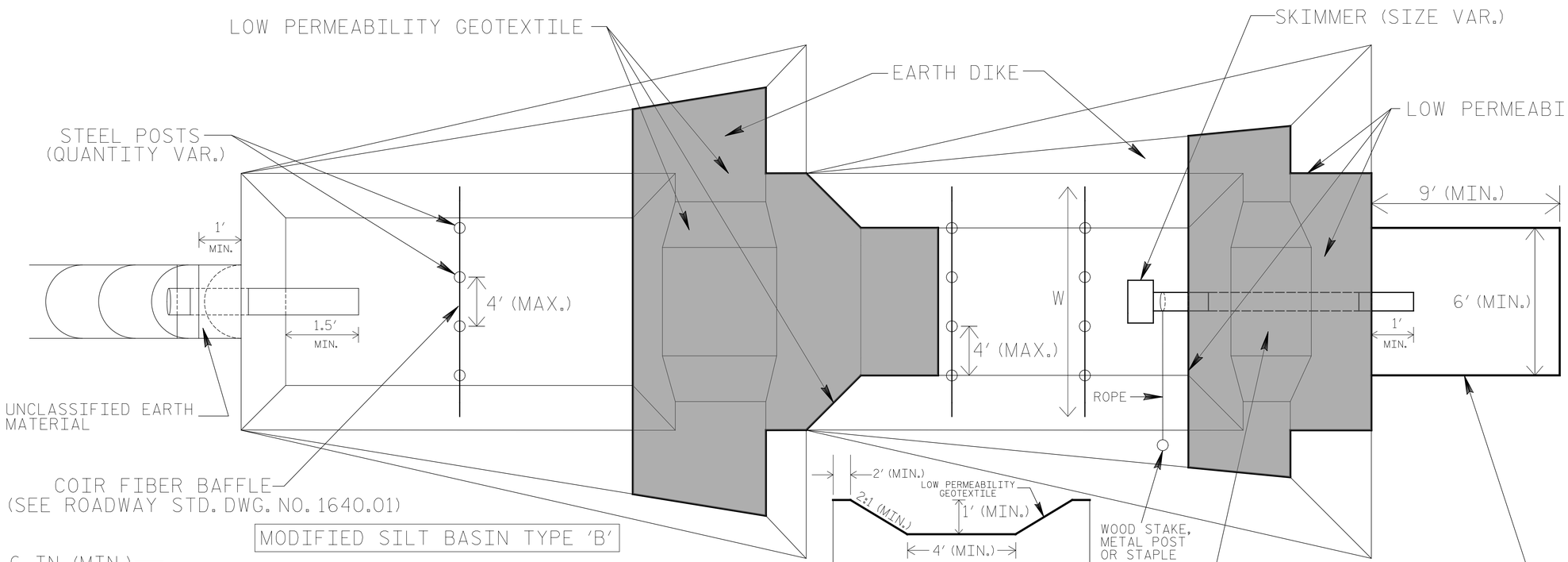
NOTES

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/0.8, 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.).

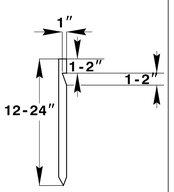
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-2A
R/W SHEET NO.	

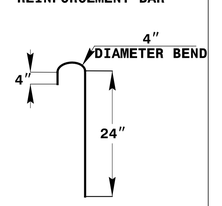
TIERED SKIMMER BASIN DETAIL (EAST)



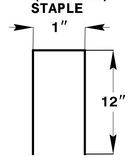
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

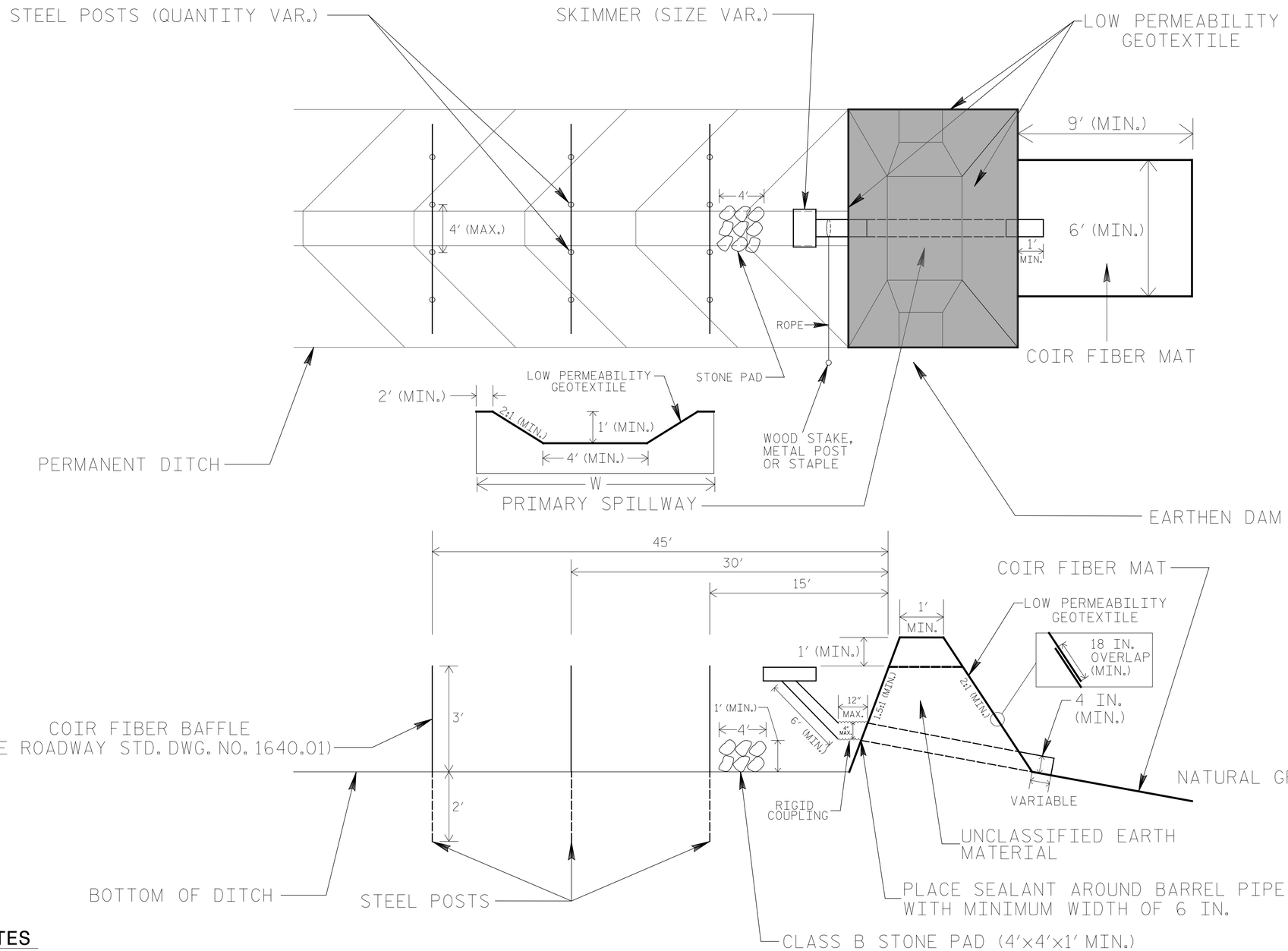
NOTES

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 PRIMARY SPILLWAY WEIR LENGTHS (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

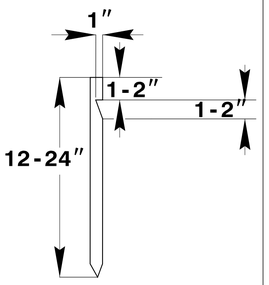
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-2B
R/W SHEET NO.	

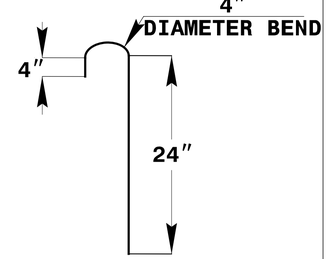
EARTHEN DAM WITH SKIMMER DETAIL (EAST)



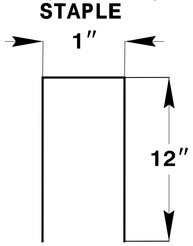
2″ x 2″ (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1″ (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

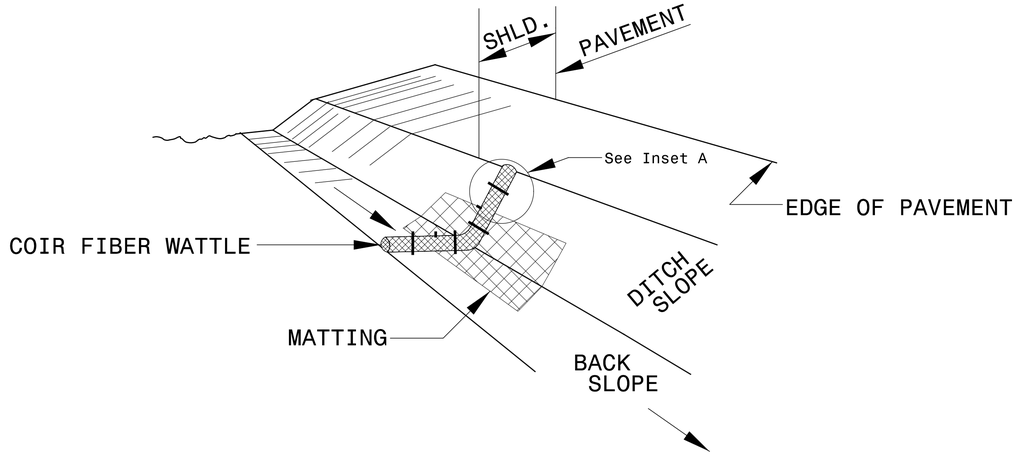
NOTES

1. LIMIT EARTHEN DAM HEIGHT TO 5 FT.
2. DETERMINE PRIMARY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
3. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

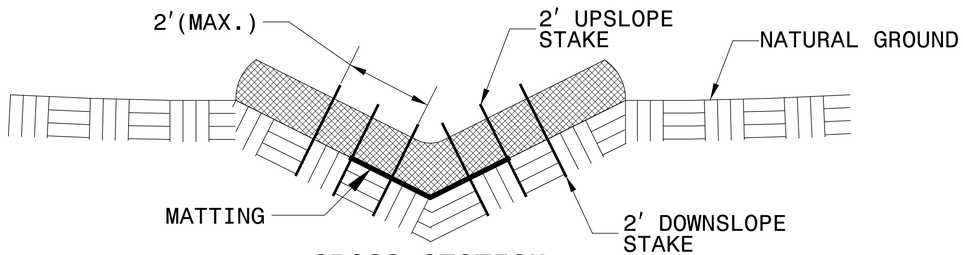
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-2C
R/W SHEET NO.	

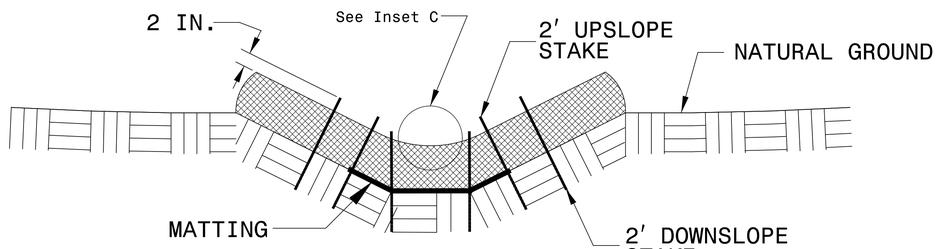
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

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.

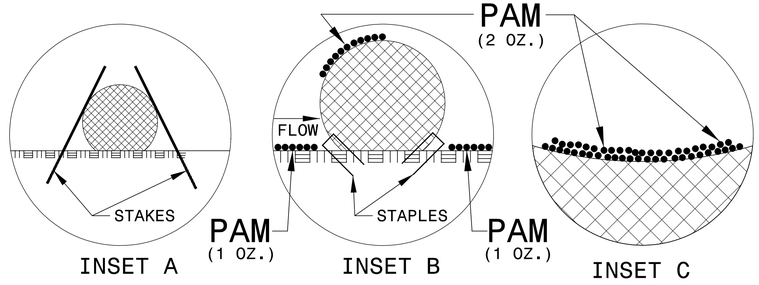
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

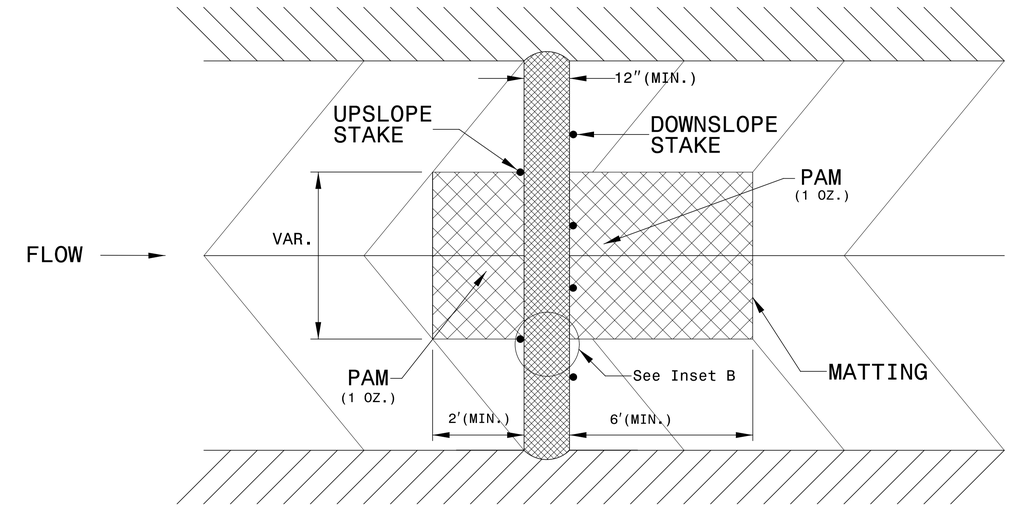
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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.

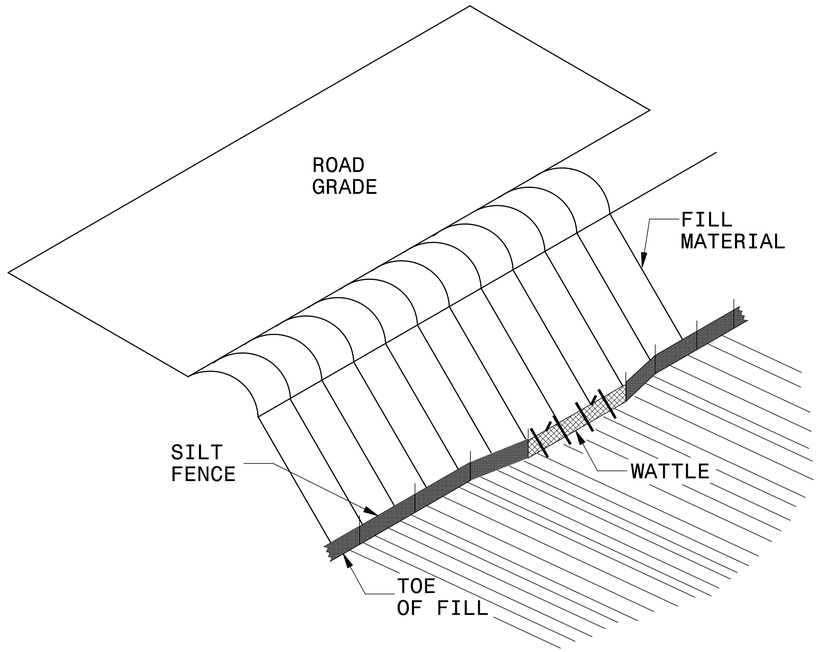




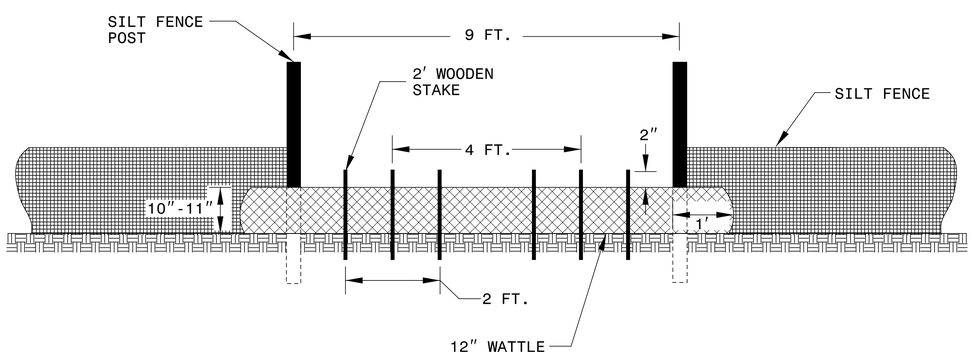
TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-2D
R/W SHEET NO.	

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.

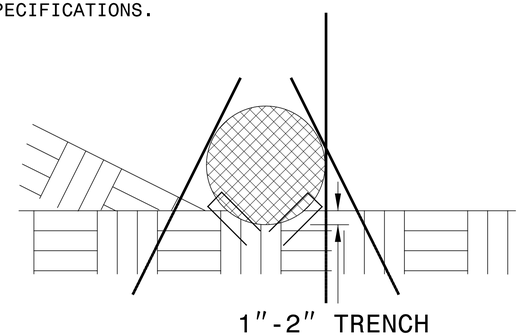
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

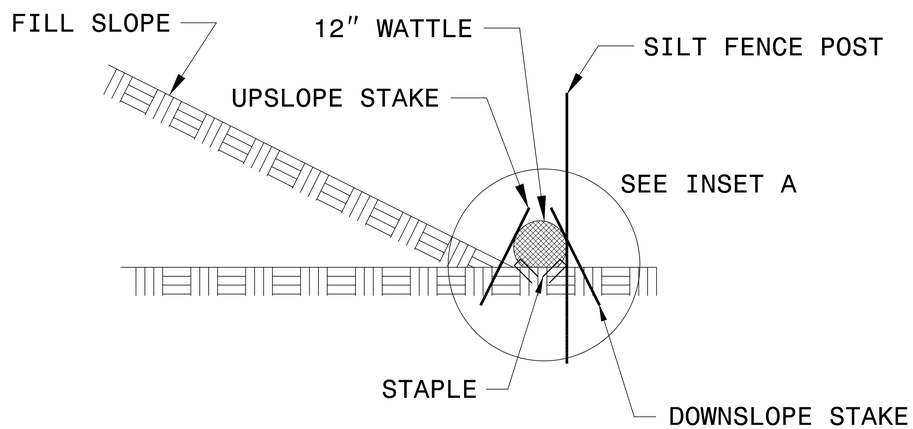
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

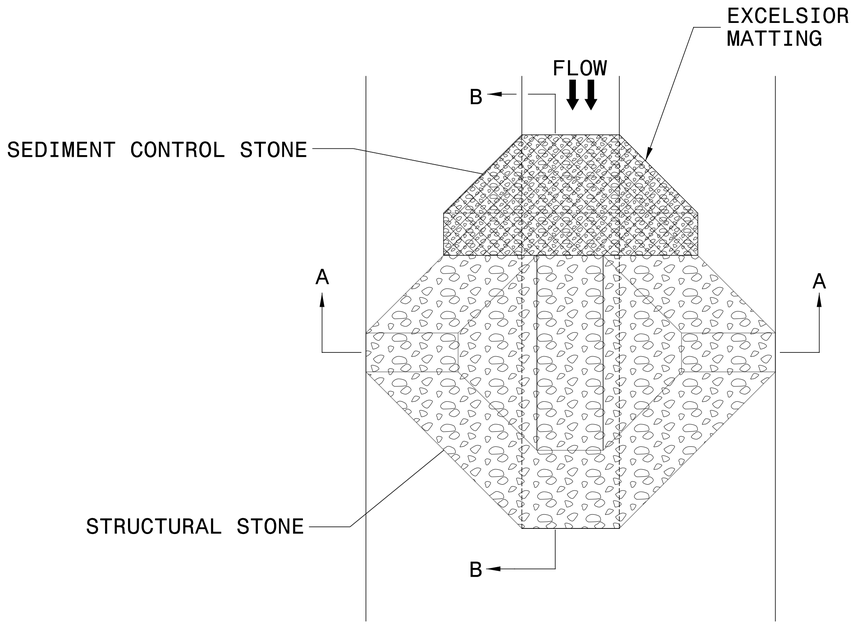




SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-2E
R/W SHEET NO.	

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



PLAN

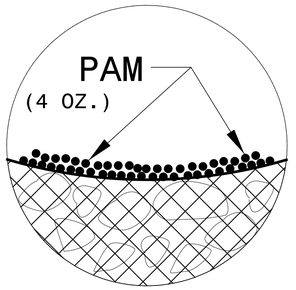
NOTES:

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

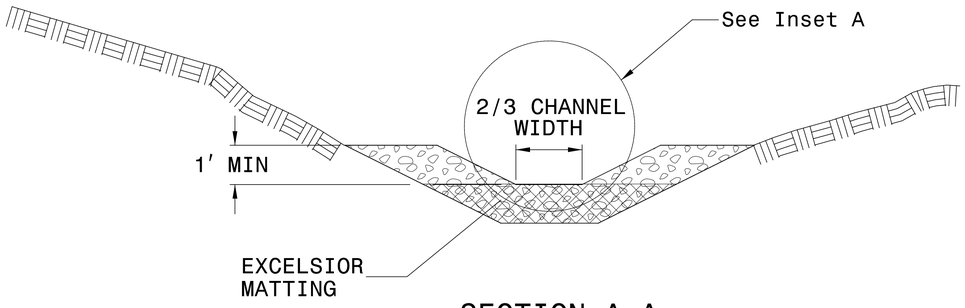
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

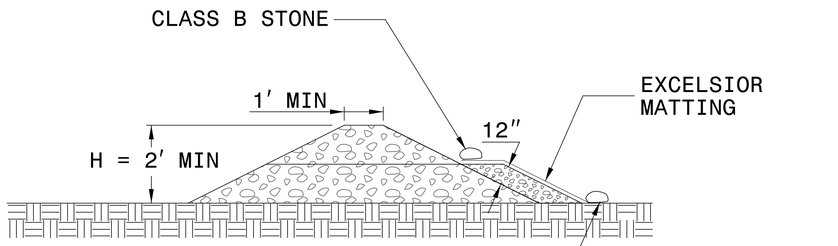
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-2F
R/W SHEET NO.	

BORROW PIT DEWATERING BASIN DETAIL

GENERAL NOTES:

DETERMINE BORROW PIT DEWATERING BASIN SIZE USING V = 8.0203 * Q * T, WHERE V IS VOLUME (FT^3), Q IS PUMP FLOW RATE (GPM), AND T IS DEWATERING TIME (HR). USE MAXIMUM FLOW RATE OF 1000 GPM AND A MINIMUM DEWATERING TIME OF 2 HOURS.

RISER SHALL BE A NON-PERFORATED, SMOOTH OR CORRUGATED MATERIAL WITH A FLASHBOARD OPTION.

CONSTRUCT THE COIR FIBER BAFFLE IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1640.01 AND WITH MATERIAL THAT MEETS THE SPECIFICATIONS OF ROADWAY STANDARD 1640-14.

PROVIDE 5′ STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. INSTALL STEEL POSTS WITH NO MORE THAN 3′ OF THE POST APPEARING ABOVE THE GROUND.

ATTACH THE COIR FIBER MAT TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE BOTTOM AND SIDE SLOPES OF THE BASIN WITH 12″ STAPLES.

INSTALL TYPE 2 GEOTEXTILE ON SIDESLOPES AND BOTTOM OF BASIN AT INLET AS SHOWN IN THE DETAIL.

USE THE TYPICAL SECTION SHOWN FOR THE BORROW PIT DEWATERING BASIN AS A GUIDE. THE BASIN MAY HAVE ANY TYPE CONFIGURATION AS LONG AS SUFFICIENT VOLUME IS PROVIDED AND PROVISIONS ARE MADE FOR A NON-PERFORATED RISER.

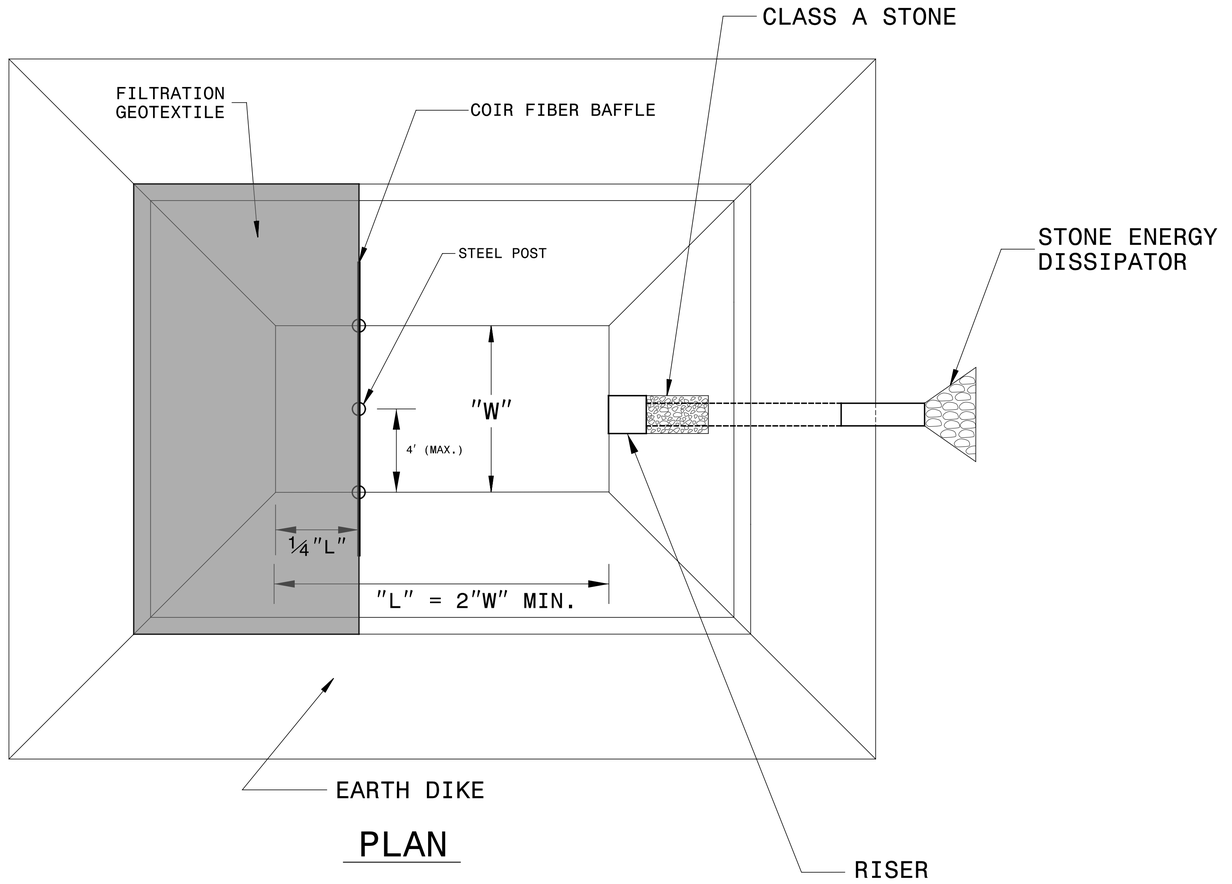
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

THE BORROW PIT DEWATERING BASIN SIZE IS VARIABLE AND DEPENDENT ON SPECIFIC SITE REQUIREMENTS AS WELL AS PROPOSED CONSTRUCTION OPERATIONS.

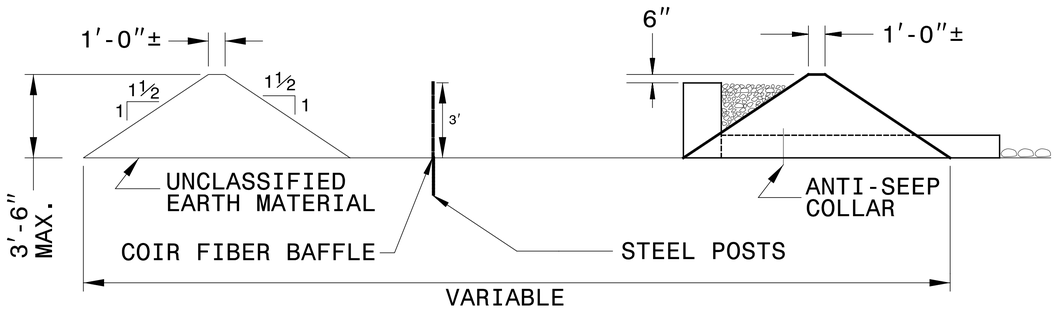
SUBMIT THE SIZE, LOCATION AND RISER PIPE MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

PUMP THE EFFLUENT INTO THE BORROW PIT DEWATERING BASIN TO A MAXIMUM DEPTH OF 6 IN. BELOW TOP OF EARTH DIKE.

PROVIDE A STONE ENERGY DISSIPATOR PAD AT THE OUTLET OF THE PUMP DISCHARGE HOSE AND OUTLET OF THE RISER BARREL IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 876.02 FOR OUTLET W/O DITCH.



PLAN



TYPICAL SECTION VIEW

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-3

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	12+00	14+00	RT	185
4	-L-	12+00	14+00	LT	250
5	-L-	25+50	31+50	RT	565
5	-L-	25+50	30+20	LT	380
5	-L-	35+00	39+63	RT	435
5	-L-	38+50	39+61	LT	90
5	-Y-	21+50	22+70	RT	45
6	-L-	39+61	41+50	LT	155
6	-L-	46+07	47+00	LT	75
8	-L-	73+50	74+00	RT	45
9	-L-	81+00	82+00	RT	85
9	-L-	81+00	81+50	LT	45
9	-Y1-	19+00	19+81	LT	65
9	-Y1-	21+00	22+00	RT	85
9	-Y1-	21+00	21+75	LT	65
9	-Y1-	21+00	22+00	LT	90
10	-L-	106+50	112+00	RT	505
13	-L-	135+50	138+00	LT	255
13	-L-	141+00	148+00	LT	810
13	-L-	140+00	141+00	RT	95
13	-Y2-	10+50	12+25	LT	165
13	-Y2-	12+25	16+50	RT	420
13	-Y2-	13+50	14+00	LT	55
13	-Y2-	14+50	16+00	LT	155
15	-Y1-	14+50	15+00	RT	45
			SUBTOTAL		5,165
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					11,195
				TOTAL	16,360
				SAY	16,400

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
6	-L-	40+00	40+50	RT	55
6	-L-	45+50	46+50	RT	95
7	-L-	58+66	59+00	LT	35
8	-L-	74+00	74+96	RT	100
8	-L-	74+50	75+50	LT	80
12	-L-	134+00	135+50	RT	140
14	-Y-	28+50	30+40	RT	195
14	-Y-	30+40	32+00	RT	165
			SUBTOTAL		865
		ADDITIONAL PSRM TO BE INSTALLED			0
				TOTAL	865
				SAY	900

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-3A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
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.

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-4/CONST.4
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NAD 83/96

BEGIN TIP PROJECT R-3826
-L- STA 12+00.00

INSTALL UNDERDRAINS FROM
11+94 TO 17+00, LEFT SIDE.
TIE TO EXISTING DI AT 11+94 LT.
UNDERDRAIN SHALL BE PLACED 4 FT
BELOW SUBGRADE AT PROPOSED EOP.

INSTALL UNDERDRAINS FROM
STA. 17+00 TO 25+00, LEFT SIDE.
OUTLET UNDERDRAIN INTO
DITCH AT STA. 25+00 LT.
UNDERDRAIN SHALL BE PLACED 4 FT
BELOW SUBGRADE AT PROPOSED EOP.

MATCHLINE -L- STA 25+00.00
SEE SHEET 5

PC Sta. 17+61.06

BM#10

BL-10

BL-R38262

MARTIN COUNTY
COMMUNITY COLLEGE
DB P-8 PG 242

MARIE BOWEN
ANDERSON
DB M-17 PG 56

VIRGINIA ELECTRIC AND
POWER COMPANY
DB T-12 PG 1

VIRGINIA ELECTRIC AND
POWER COMPANY
DB U-12 PG 22

JESSE A. COUNCIL
DB R-10 PG 705

1 JOSEPH D. & MAMIE C. KEEL
DB Q-12 PG 688

2 BOBBY W. & BARBARA D. BOWEN
DB P-22 PG 643

3

4 STEPHANIE CLEGG PRICE
DB W-23 PG 751

5 JIMMIE R. & SHEILA COUNCIL
DB B-17 PG 428

6 HEIRS OF DOROTHY RHODES
DB K-12 PG 309

7

7A

HEIRS OF
DOROTHY
RHODES
DB K-12
PG 309

N 44° 04' 42.0" E

N 16° 51' 47.6" E

S 05° 22' 36.5" E

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR -L- PROFILE, SEE SHEET 16

R3826 9/26/2016
C:\Projects\R3826\roadway\erosion_control_c&g_psh_4.dgn
PER ENGINEERING INC

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-5/CONST.5
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NAD 83/96

BEGIN CONSTRUCTION
-Y- STA 18+00.00

MATCHLINE -L- STA 25+00.00
SEE SHEET 4

MATCHLINE -L- STA 39+00.00
SEE SHEET 6

MATCHLINE -Y- STA 26+00.00
SEE SHEET 14

WILLIAMSTON TOWN LIMITS

JAMES A. BETTY & B. ROGERSON
DB D-10 PG 520 (12)

JESSE A. COUNCIL
DB R-10 PG 705 (7)

BETTY J. ROGERSON
WB 10-E PG 60 (11)

KIMBERLY JO WHITAKER
DB L-15 PG 157 (13)

REDDICK REALTY, INC.
DB K-14 PG 62 (14)

HEIRS OF DOROTHY RHODES
DB K-12 PG 309 (6)

RUSSELL L. & MARCIA A. WELLS
DB 0-18 PG 921 (9)

GEORGE PARKER
DB E-20 PG 1 (10)

HEIRS OF N.L. WASHINGTON
DB X-5 PG 259 (15)

WILLIAM R. JONES
DB 0-4 PG 223 (16)

NATHAN E. STANCILL
DB N-7 PG 419 (17)

MICHAEL R. STANCIL
DB E-14 PG 860 (18)

NATHAN E. STANCILL
DB M-11 PG 276 (19)

PC Sta. 19+88.41
PT Sta. 34+48.40
PC Sta. 27+22.77
PT Sta. 25+19.15
PC Sta. 36+35.13

-L- STA 32+44.05 = -Y- STA 23+53.79

N 88° 10' 57.4" E
N 9° 07' 17.1" W
N 77° 34' 04.2" E

150' TAPER RT TURN
600' TAPER LT
150' TAPER RT
100' TAPER RT
150' TAPER LT
400' TAPER LT

150' R-50' R-150' R 5' OFFSET
180'-60'-180' 6' OFFSET

INSTALL UNDERDRAINS FROM -L- STA. 27+00 TO 32+00, LEFT SIDE. OUTLET UNDERDRAIN INTO DITCH AT STA. 27+00 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP

INSTALL UNDERDRAINS FROM -Y- STA. 21+00 TO 23+17, LEFT SIDE. TIE TO PROPOSED 2GI AT STA. 23+17 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

INSTALL UNDERDRAINS FROM -L- STA. 33+00 TO 36+00, RIGHT SIDE. TIE TO PROPOSED 2GI AT STA. 33+40 RT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

INSTALL UNDERDRAINS FROM -L- STA. 36+00 TO 39+50, RIGHT SIDE. OUTLET UNDERDRAIN INTO DITCH AT STA. 39+50 RT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

INSTALL UNDERDRAINS FROM -Y- STA. 24+00 TO 29+29 LEFT SIDE. TIE TO PROPOSED 2GI AT STA. 29+29 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
11 ft. weir with
3.5 ft. weir height
ID 5.1
(See Earthen Dam
with Skimmer Detail)

90 x 15 x 2
ID 6.2

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR –L– PROFILE, SEE SHEET 16
FOR –Y– PROFILE, SEE SHEET 21

5/14/99

R3826_3_26_2016_erosion_control_&g_pth_5.dgn
3/26/2016
[A] ENGINEERING

5/14/99

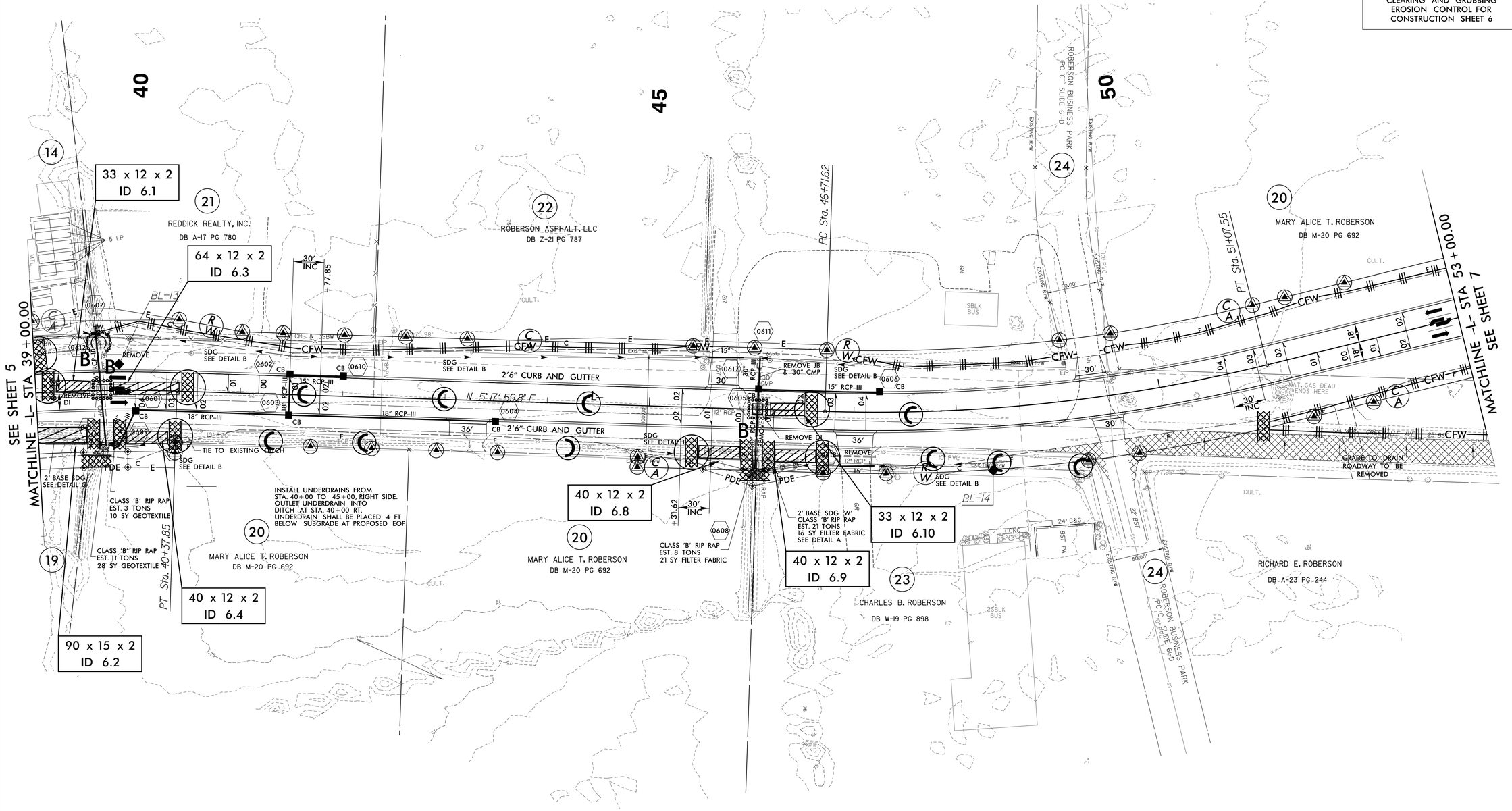
PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-6/CONST.6
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NAD 83/96



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR –L– PROFILE, SEE SHEET 17

9/26/2016
R3826_erosion_control_&_psh_6.dgn
IRA ENGINEERING INC.

5/14/99

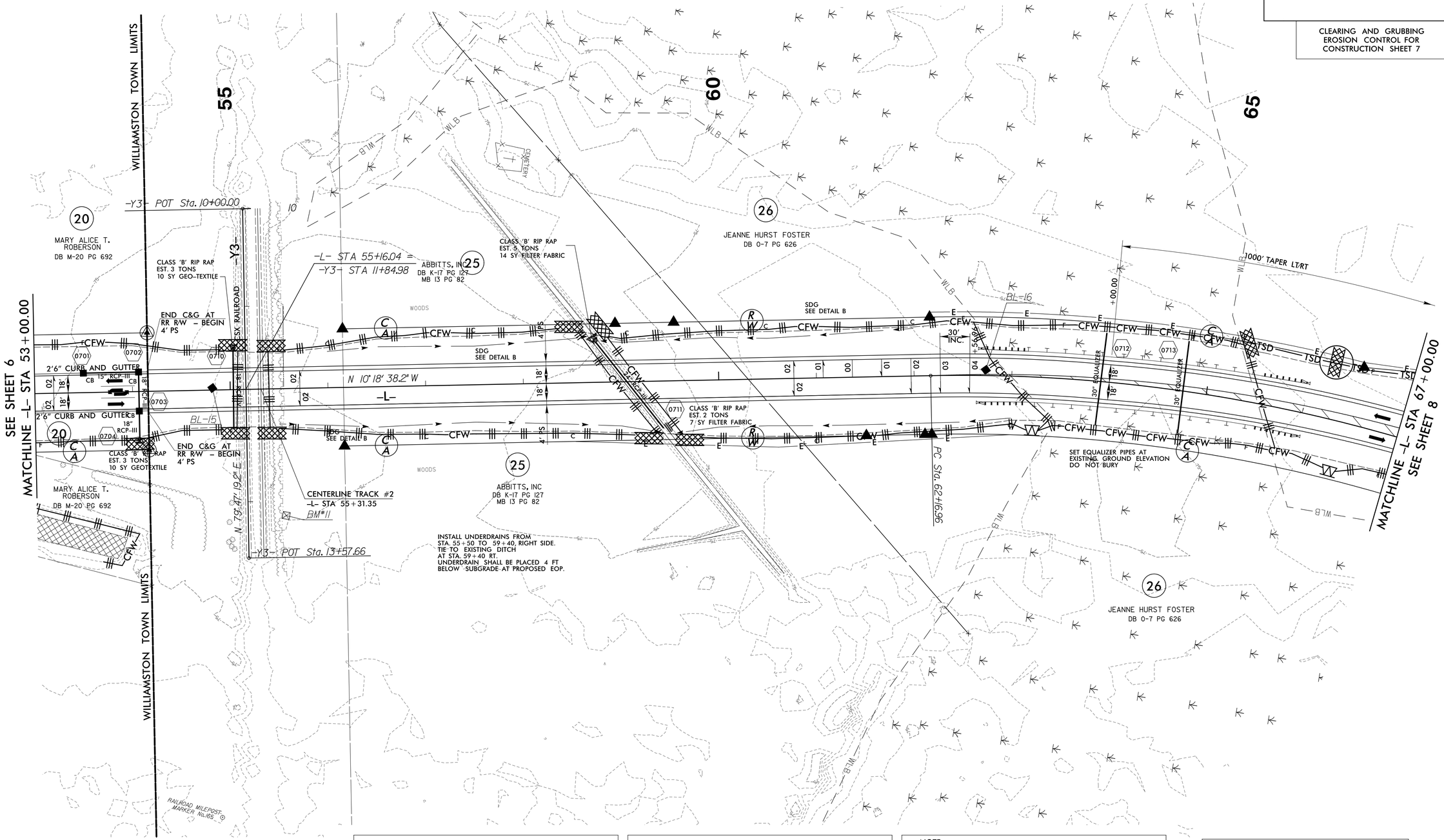
PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-7/CONST.7
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

NAD 83/96



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR -L- PROFILE, SEE SHEET 17

9/26/2016
R3826_erosion_control_c&g_psh_7.dgn
[DA ENGINEERING, INC.]

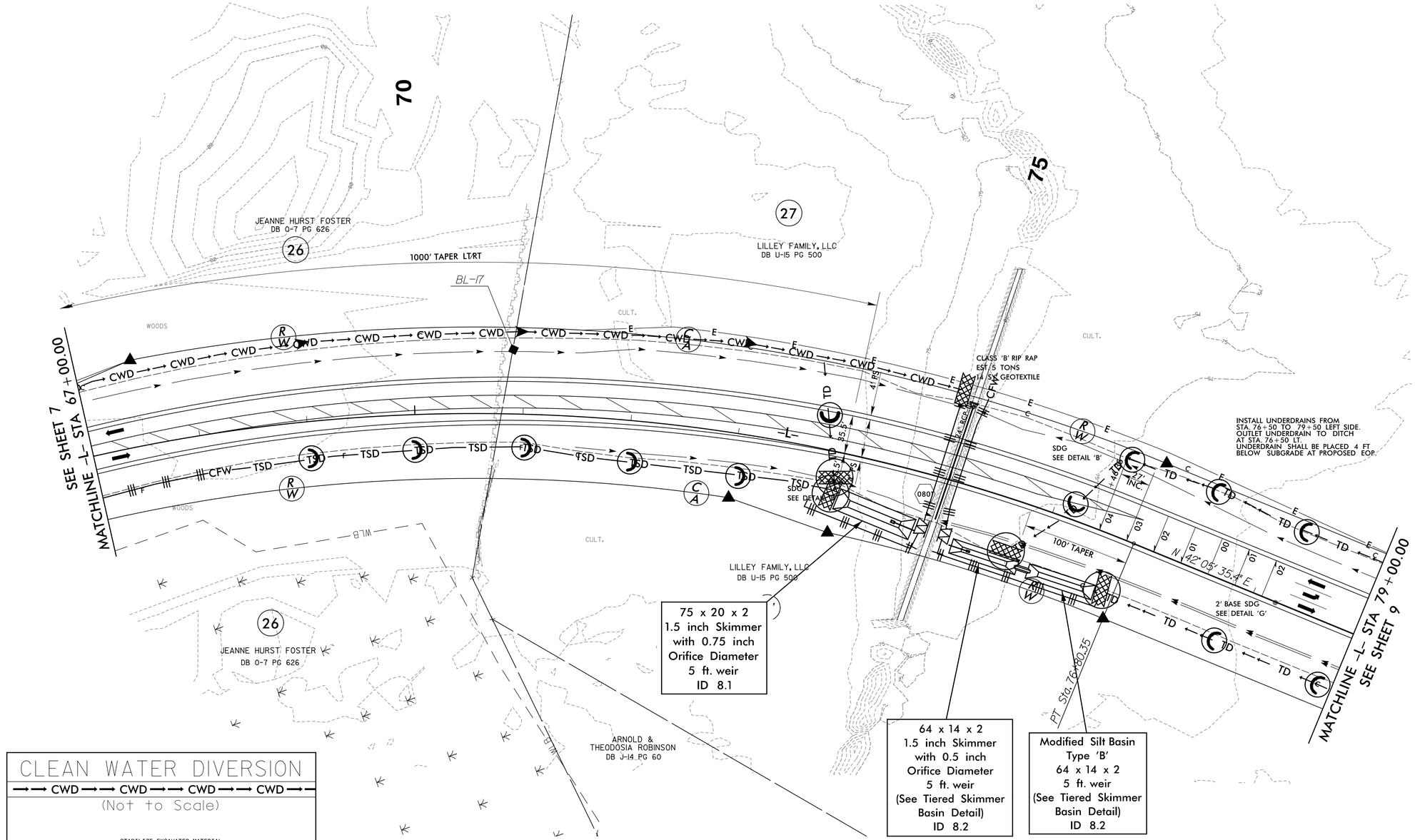
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-8/CONST.8
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

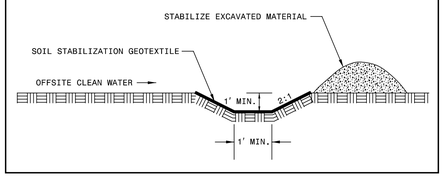
NAD 83/96



CLEAN WATER DIVERSION

CWD CWD CWD CWD

(Not to Scale)



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR –L– PROFILE, SEE SHEET 18

9/26/2016
R3826_erosion_control_&g_psh_8.dgn
[DIVISION ENGINEERING, INC.]

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-9/CONST.9
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

NAD 83/96

SEE SHEET 15
MATCHLINE –Y1– STA 17+00.00

MATCHLINE –L– STA 79+00.00
SEE SHEET 8

MATCHLINE –L– STA 93+00.00
SEE SHEET 10

PC Sta. 18+35.53

PI Sta. 19+91.74

PC Sta. 83+08.62

PRC Sta. 89+65.57

–L– STA 80+28.82 =
–Y1– STA 20+49.17

END CONSTRUCTION
–Y1– STA 24+50.00

PC Sta. 24+78.77

BL–18

BL–19

360' TAPER

150' TAPER

656.95' TAPER RT

265' TAPER LTRT

+60.00

-60.00

-80.00

-00.00

SDG
SEE DETAIL 'B'

CFW

REMOVE

RETAIN

24" RCP-III

18" RCP-III

15" RCP-III

2GI-D

4' PS

4' PSD

12' 12'

11.5'

27' INC

30' INC

35.5'

0.5'

75' R

47° 45' 28.2" E

30
PEGGY O. HARRELL
DB R-8 PG 713

INSTALL UNDERDRAIN FROM
–Y1– STA. 14+00 TO 19+83, RIGHT SIDE.
TIE TO –L– LINE UNDERDRAIN
AT –L– STA. 79+50 LT.
UNDERDRAIN SHALL BE PLACED 4 FT
BELOW SUBGRADE AT PROPOSED EOP.

31
JAMES A. &
DOROTHY CULLIPHER
DB X-8 PG 689

27
LILLEY FAMILY, LLC
DB U-15 PG 500

32
RUBICEL C. OVANDO &
JESUS C. CUPIL
DB T-23 PG 213

35
SIMON A. GRIFFIN
WB 09-E PG 147
L-299 (UNRECORD MAP)

INSTALL UNDERDRAIN FROM
–L– STA. 81+00 TO 87+00, LEFT SIDE.
OUTLET UNDERDRAIN TO DITCH
AT STA. 81+00 LT.
UNDERDRAIN SHALL BE PLACED 4 FT
BELOW SUBGRADE AT PROPOSED EOP.

CLASS 'B' RIP RAP
EST. 5 TONS
14 SY GEOTEXTILE

FILL WITH
FLOWABLE
MATERIAL

CLASS 'B' RIP RAP
EST. 5 TONS
7 SY FILTER FABRIC

LARRY W. &
WANDA M. SPELLER
DB H-9 PG 43

33

INSTALL UNDERDRAIN FROM
–Y1– STA. 21+00 TO 25+75, RIGHT SIDE.
TIE TO –L– LINE UNDERDRAIN
AT –L– STA. 79+50 RT.
UNDERDRAIN SHALL BE PLACED 4 FT
BELOW SUBGRADE AT PROPOSED EOP.

SHELBY MODLIN
DB R-8 PG 149
DB A-13 PG 468

ARNOLD & THEODOSIA ROBINSON
DB J-14 PG 60

78 x 20 x 2.0
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 9.1

Modified Silt Basin
Type 'B'
78 x 20 x 2
12 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 9.1

WOODS

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR –L– PROFILE, SEE SHEET 18
FOR –Y1– PROFILE, SEE SHEET 21

5/14/99

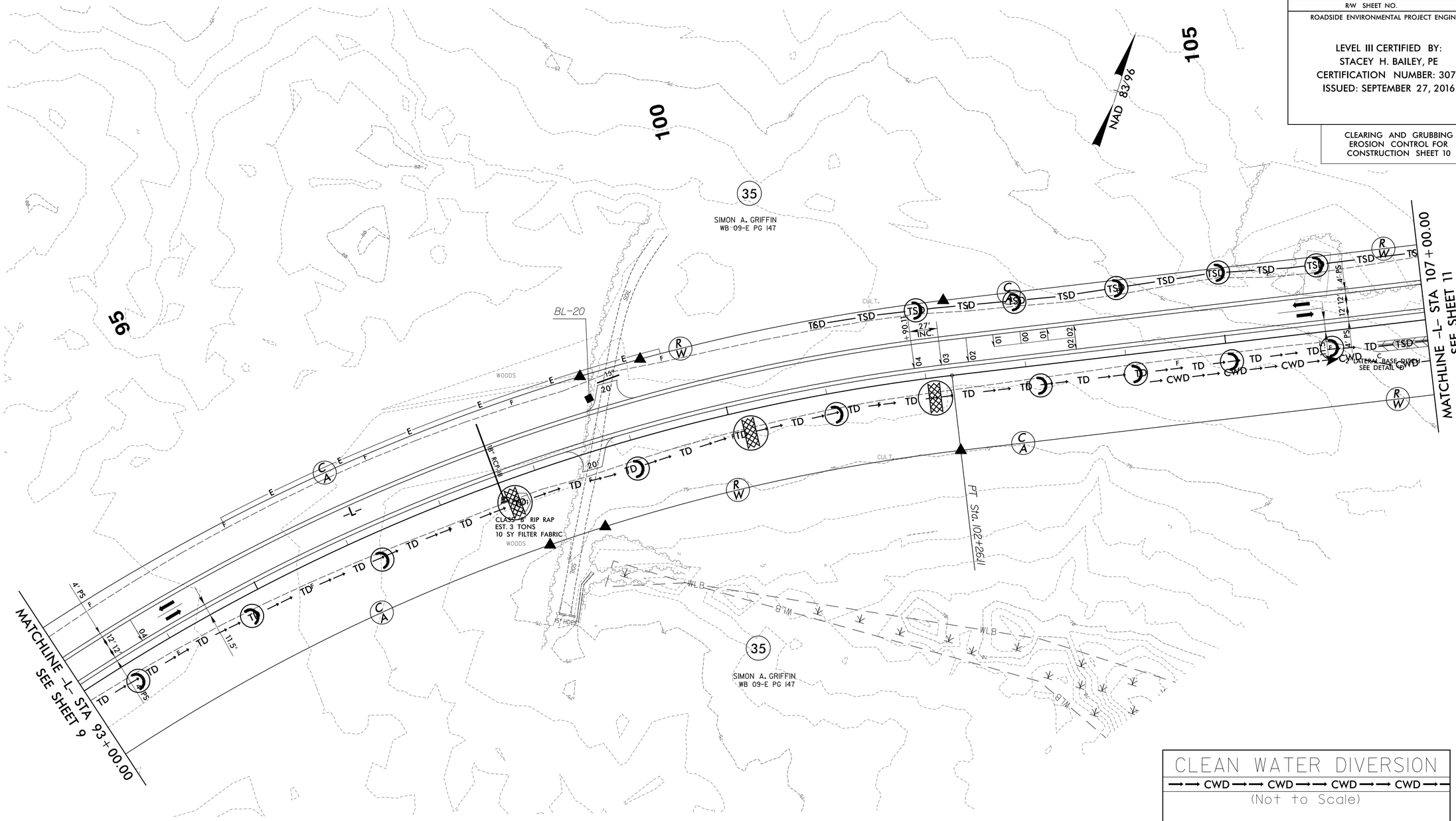
9/26/2016
R3826_Erosion_control_&g_psh_9.dgn
[A ENGINEERING]

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-10/CONST.10
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

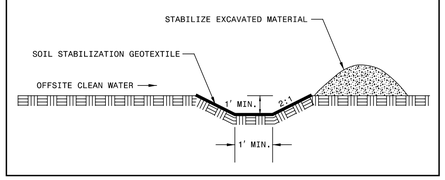
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10



CLEAN WATER DIVERSION

CWD → → CWD → → CWD → → CWD → →

(Not to Scale)



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR –L– PROFILE, SEE SHEET 19

9/26/2016
R3826_erosion_control_c&g_psh_10.dgn
DFA ENGINEERING INC

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-11/CONST.11
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

NAD 83/96

SEE SHEET 10
MATCHLINE –L– STA 107+00.00

MATCHLINE –L– STA 121+00.00
SEE SHEET 12

35
SIMON A. GRIFFIN
WB 09-E PG 147
L-299 (UNRECORD MAP)

110 115 120

BL-21

PC Sta. 1181+46.81

WOODS

CLASS 'B' RIP RAP
EST. 3 TONS
10 SY GEOTEXTILE

CLASS 'B' RIP RAP
EST. 5 TONS
14 SY GEOTEXTILE

WELL

B ABAND

TSD TD CFW CWD

4' PS 12' 12' 4' PS 11.5'

02 02 01 00 01 02 03 04

–L–

N 65° 39' 30.1" E

2' LATERAL BASE DITCH
SEE DETAIL 'D'

FS 1100

+20 27% INC

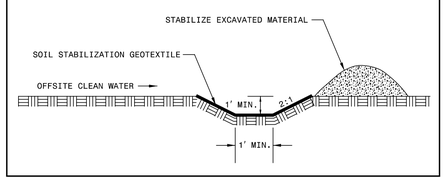
CULT.

188 x 32 x 2
2 inch Skimmer
with 1.625 inch
Orifice Diameter
23 ft. weir
ID 11.1

75 x 15 x 2
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 11.2

CLEAN WATER DIVERSION

(Not to Scale)



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR –L– PROFILE, SEE SHEET 19

R3826_9/26/2016
[DA ENGINEERING INC
erosion_control_c&g_esh_11.dgn

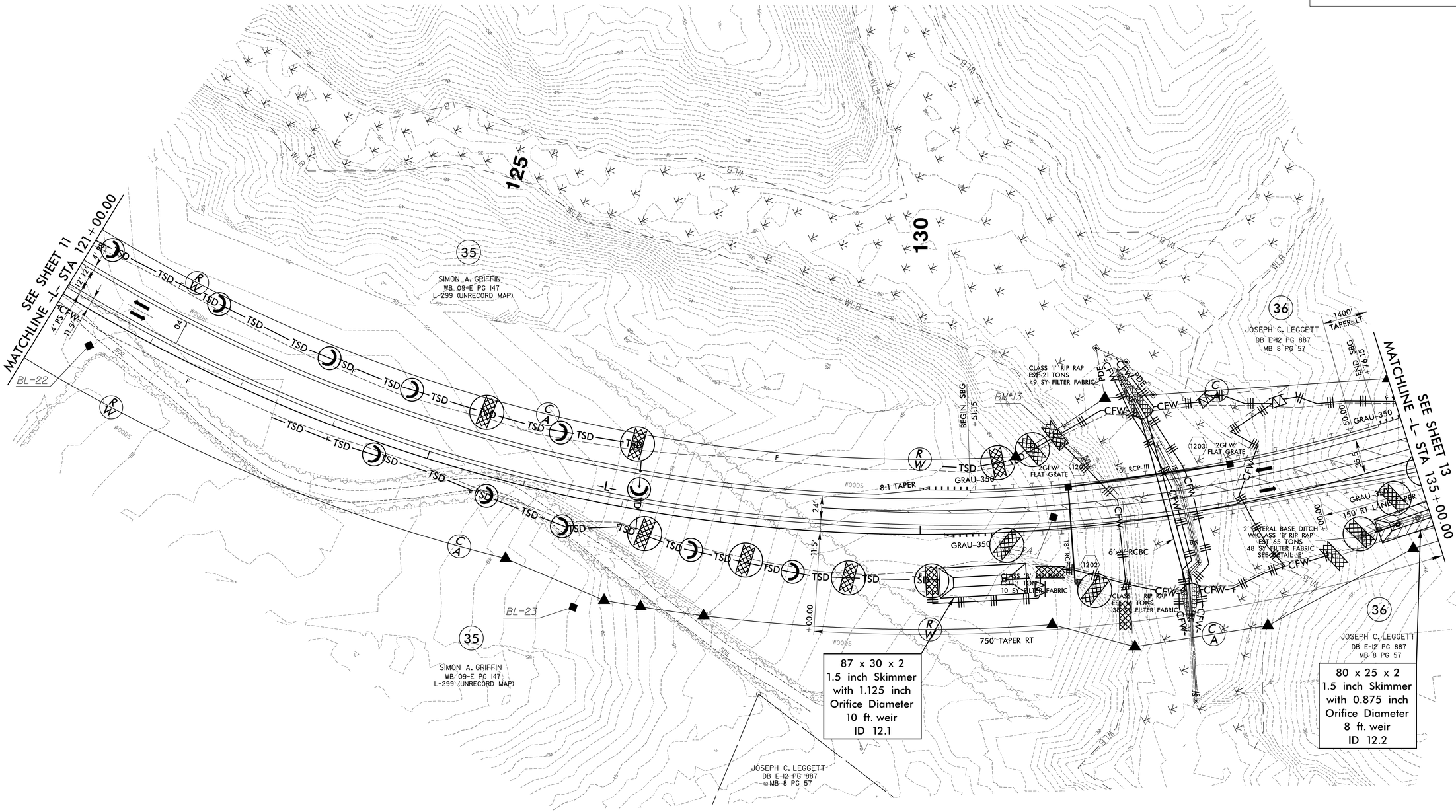
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-12/CONST.12
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12

NAD 83/96



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR -L- PROFILE, SEE SHEET 20

FOR CULVERT, SEE SHEET C-1 THROUGH C-5

11/15/2016
R3826_Erosion_control_&g_psh_12.dgn
TEA ENGINEERING, PC

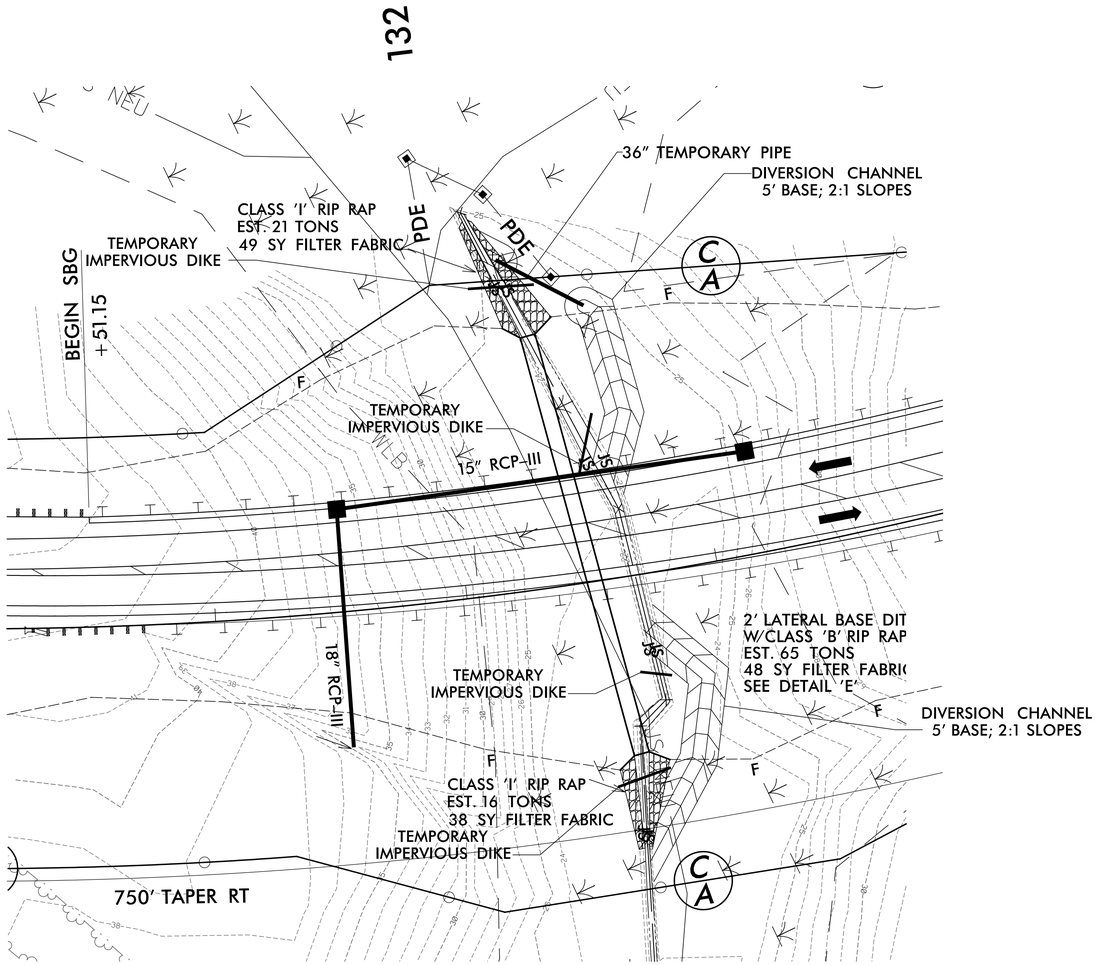
5/14/99

6′ (W) X 6′ (H) RCBC STA. 132 + 50 –L–

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-12A
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

NAD 83/96



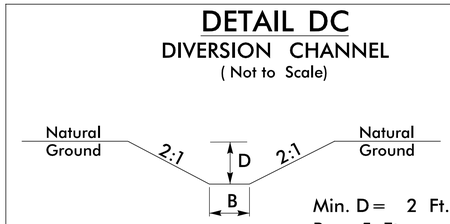
NOTES

1. CULVERT CONSTRUCTION SHALL BE PERFORMED IN ONLY DRY OR ISOLATED SECTIONS OF CHANNEL.
2. IMPERVIOUS DIKES ARE TO BE USED TO ISOLATE WORK FROM STREAM FLOW AS NECESSARY.
3. ALL GRADED AREAS SHALL BE STABILIZED WITHIN 24 HOURS.
4. MAINTENANCE OF STREAM FLOW OPERATIONS SHALL BE INCIDENTAL TO THE WORK. THIS INCLUDES POLYETHYLENE SHEETING, DIVERSION PIPES, PUMPS AND HOSES.
5. PUMPS AND HOSES SHALL BE SUFFICIENT SIZE TO DEWATER THE WORK AREA.
6. THE CONTRACTOR SHALL NOT PUMP SEDIMENT-LADEN WATER DIRECTLY INTO STREAM. FOR DEWATERING OF CULVERT SITES, THE CONTRACTOR SHALL FILTER SEDIMENT-LADEN WATER THROUGH SPECIAL STILLING BASIN.

CONSTRUCTION SEQUENCE

1. CONSTRUCT DIVERSION CHANNELS (177 LF) WITH 5′ BASE AND 2:1 SIDE SLOPES AND PLACE 36" TEMPORARY PIPE (40 LF).
2. PLACE IMPERVIOUS DIKES (83 LF) UPSTREAM AND DOWNSTREAM OF THE PROPOSED CULVERT AND DIVERT CHANNEL FLOW INTO DIVERSION CHANNEL.
3. PROVIDE PUMPS AND SPECIAL STILLING BASINS FOR DEWATERING OF THE WORK ZONE.
4. EXCAVATE WORK ZONE.
5. CONSTRUCT CULVERT AND WINGWALLS.
6. COMPLETE UPSTREAM AND DOWNSTREAM IMPROVEMENTS.
7. REMOVE IMPERVIOUS DIKES, TEMPORARY PIPE, DIVERSION CHANNEL, AND SPECIAL STILLING BASIN. DIVERT CHANNEL FLOW INTO CULVERTS.
8. ALLOW TIME FOR CONCRETE TO CURE AND PLACE ROADWAY FILL.

DETAIL DC
DIVERSION CHANNEL
(Not to Scale)



30 0 15 30

SCALE: 1"= 30′ HORIZ.

9/26/2016
R-3826 EC Construction_Seq.dgn
IRA ENGINEERING, INC.

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-13/CONST.13
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

NAD 83/96

SEE SHEET 12
MATCHLINE -L- STA 135+00.00

140

145

1400' TAPER LT

150' TAPER RT LANE TAPER

750' TAPER RT

650' TAPER RT

150' TAPER

-L- STA 139+10.84 =
-Y2- STA 10+00.00

PC Sta. 11+32.88

PT Sta. 147+65.52

BY2-R38265

END TIP PROJECT R-3826
-L- STA 149+00.00

END CONSTRUCTION
-Y2- STA 16+59.00

PRC Sta. 14+75.06

2' BASE SDG W/CLASS 'B' RIP RAP EST. 99 TONS 73 SY FILTER FABRIC SEE DETAIL 'A'

2' LATERAL BASE DITCH W/CLASS 'B' RIP RAP EST. 65 TONS 48 SY FILTER FABRIC SEE DETAIL 'E'

2' LATERAL BASE DITCH SEE DETAIL 'D'

2' LATERAL BASE DITCH W/CLASS 'B' RIP RAP EST. 83 TONS 62 SY FILTER FABRIC SEE DETAIL 'E'

2' BASE SDG W/CLASS 'B' RIP RAP EST. 83 TONS 62 SY FILTER FABRIC SEE DETAIL 'A'

2' BASE SDG SEE DETAIL 'G'

CLASS 'B' RIP RAP EST. 5 TONS 14 SY GEOTEXTILE

SDG SEE DETAIL 'B'

GRADE TO DRAIN ROADWAY TO BE REMOVED

80 x 25 x 2 1.5 inch Skimmer with 0.875 inch Orifice Diameter 8 ft. weir ID 12.2

125 x 40 x 2 1.5 inch Skimmer with 1.5 inch Orifice Diameter 22 ft. weir ID 13.1

JOSEPH C. LEGGETT
DB E-12 PG 887
MB 8 PG 57
36

SAMUEL B. WHITLEY
DB W-22 PG 838
39

CALVIN W. JAMES
DB T-16 PG 569
37

SAMUEL B. WHITLEY
DB 08-E PG 249
PC-B SL 360-F
39

FELLOWSHIP BAPTIST CHURCH
DB R-21 PG 315
PC-C SL 88-D
38

TIE TO EXISTING DITCH

RETAIN DI

RETAIN 18" HDPE

REMOVE 24" RCP

REMOVE 18" RCP

REMOVE 12" RCP

REMOVE 8" PVC

REMOVE 6" PVC

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR -L- PROFILE, SEE SHEET 20
FOR -Y2- PROFILE, SEE SHEET 22

5/14/99

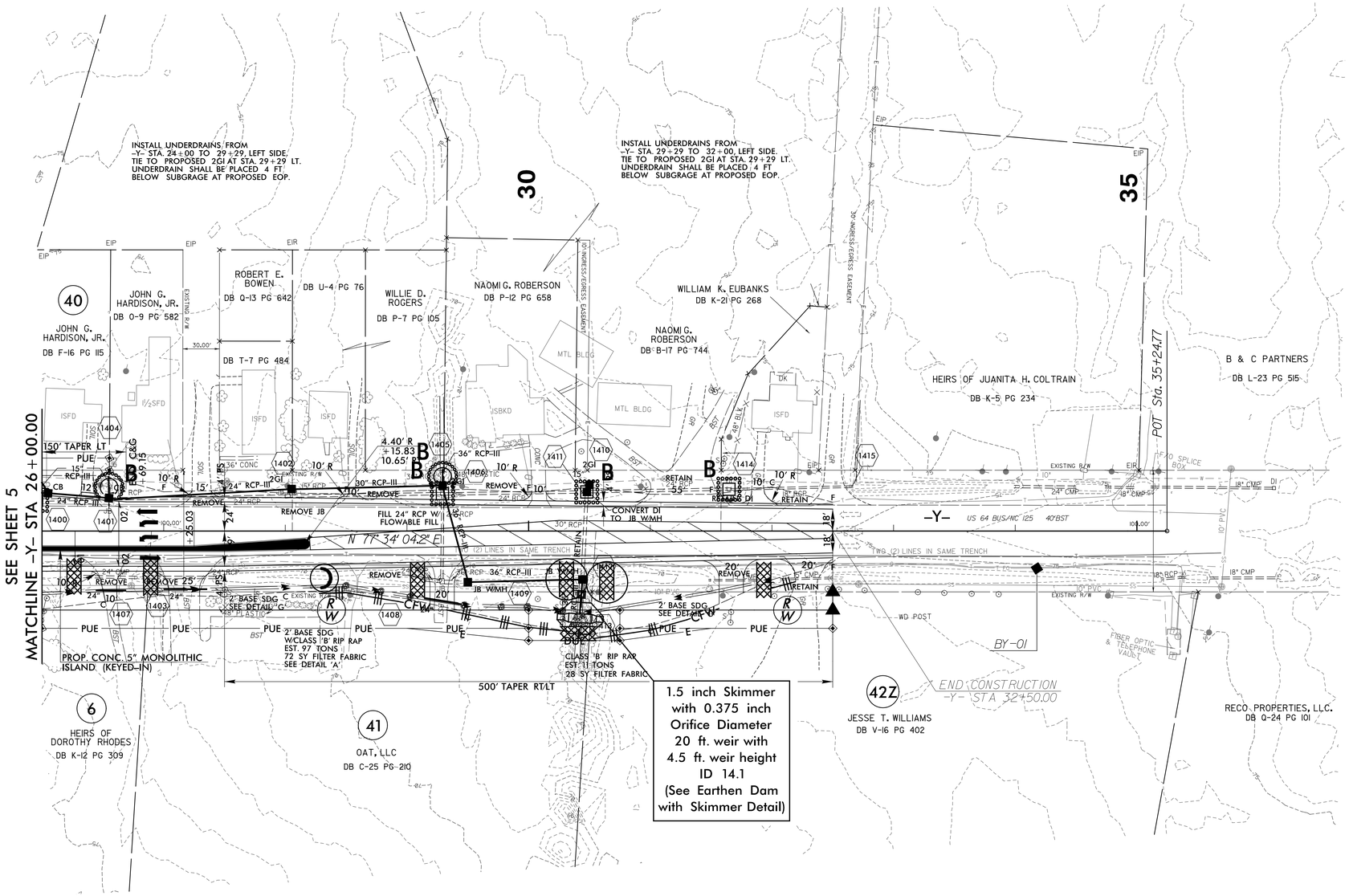
9/26/2016
R3826_Erosion_control_&g_psh_13.dgn
LA ENGINEERING, INC.

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-14/CONST.14
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

NAD 83/96



FOR -Y- PROFILE, SEE SHEET 21

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

5/14/99

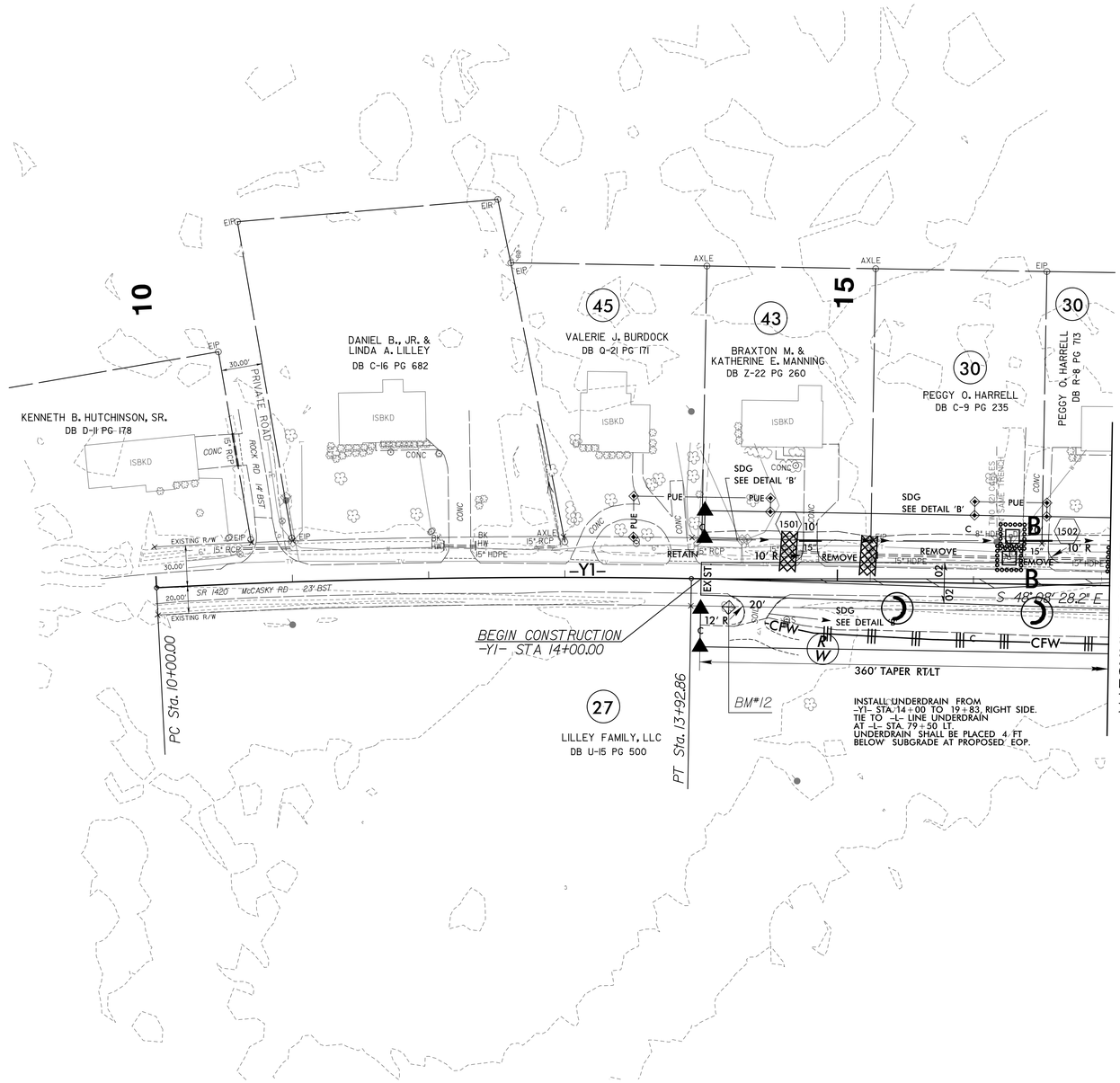
9/26/2016
R3826_final_erosion_control_&g_psh_14.dgn
KCA ENGINEERING INC

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-15/CONST.15
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15

NAD 83/96



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

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

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

FOR -Y1- PROFILE, SEE SHEET 21

5/14/99

R3826_9/26/2016
[P:\PROJECTS\R3826\design\control_c&g.psh,15.dgn]
[DA PRINTER=DWG_INC]

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-16/CONST.4
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 4

NAD 83/96

15

20

BEGIN TIP PROJECT R-3826
-L- STA 12+00.00

INSTALL UNDERDRAINS FROM 11+94 TO 17+00, LEFT SIDE. TIE TO EXISTING DI AT 11+94 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

INSTALL UNDERDRAINS FROM STA. 17+00 TO 25+00, LEFT SIDE. OUTLET UNDERDRAIN INTO DITCH AT STA. 25+00 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

90 x 15 x 2
ID 5.4

MATCHLINE -L- STA 25+00.00
SEE SHEET 5

PC Sta. 17+61.06

BM#10

BL-10

BL-R38262

N 44° 04' 42.0" E

N 16° 51' 47.6" E

-L-

PT Sta. 22+43.05

+49.49

+21.06

+36.05

+50.00

+96.05

30' INC

150' TAPER RT

600' TAPER LT

MARIE BOWEN ANDERSON
DB M-17 PG 56

JESSE A. COUNCIL
DB R-10 PG 705

VIRGINIA ELECTRIC AND POWER COMPANY
DB T-12 PG 1

VIRGINIA ELECTRIC AND POWER COMPANY
DB U-12 PG 22

MARTIN COUNTY COMMUNITY COLLEGE
DB P-8 PG 242

1 JOSEPH D. & MAMIE C. KEEL
DB O-12 PG 688

2 BOBBY W. & BARBARA D. BOWEN
DB P-22 PG 643

3 MARTIN COUNTY COMMUNITY COLLEGE
DB P-8 PG 242

4 STEPHANIE CLEGG PRICE
DB W-23 PG 751

5 JIMMIE R. & SHEILA COUNCIL
DB B-17 PG 428

6 HEIRS OF DOROTHY RHODES
DB K-12 PG 309

HEIRS OF DOROTHY RHODES
DB K-12 PG 309

SR 1182 EAST COLLEGE RD
SR 1182 I9 BST
NC 125 PRISON CAMP RD 30' BST

DETAIL B
CUT DITCH
(Not to Scale)

Natural Ground — 3:1 or Flatter — D — 4:1 or Flatter — Front Ditch Slope

Min. D= 1Ft.

FROM STA. 17+00 -L- TO STA. 26+34 -L- LT
FROM STA. 12+00 -L- TO STA. 13+00 -L- RT
FROM STA. 14+00 -L- TO STA. 26+36 -L- RT

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR -L- PROFILE, SEE SHEET 16

9/26/2016
R3826_Erosion_control_final_psh_4.dgn
TA ENGINEERING

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-17/CONST.5
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 5

5/14/99

NAD 83/96

BEGIN CONSTRUCTION -Y- STA 18+00.00

DETAIL C
HEAD DITCH
(Not to Scale)
Natural Ground, 4:1, D, 4:1, Natural Ground
Min. D=1 Ft.
STA. 26+34 -L- LT

DETAIL B
CUT DITCH
(Not to Scale)
Natural Ground, 3:1 or Flatter, D, 4:1 or Flatter, Front Ditch Slope
Min. D= 1Ft.
FROM STA. 26+34 -L- TO STA. 30+20 -L- LT
FROM STA. 30+60 -L- TO STA. 31+50 -L- LT
FROM STA. 37+50 -L- TO STA. 39+61 -L- LT
FROM STA. 26+36 -L- TO STA. 29+00 -L- RT
FROM STA. 29+00 -L- TO STA. 31+50 -L- RT
FROM STA. 33+40 -L- TO STA. 35+00 -L- RT
FROM STA. 35+00 -L- TO STA. 36+80 -L- RT
FROM STA. 19+00 -Y- TO STA. 22+70 -Y- RT

DETAIL G
2' BASE SDG
(Not to Scale)
Natural Ground, 3:1 or Flatter, D, 4:1 or Flatter, Front Ditch Slope, B
Min. D= 1Ft.
B= 2 Ft.
FROM STA. 19+50 -Y- TO STA. 23+15 -Y- LT
FROM STA. 24+00 -Y- TO STA. 28+50 -Y- RT
FROM STA. 36+80 -L- TO STA. 39+63 -L- RT

JAMES A. BETTY & B. ROGERSON
DB D-10 PG 520
12

WILLIAMSTON TOWN LIMITS

N 88° 10' 57.4" E

PC Sta. 19+88.41

20
KIMBERLY JO WHITAKER
DB L-15 PG 157
13
35

INSTALL UNDERDRAINS FROM -Y- STA. 21+00 TO 23+17, LEFT SIDE. TIE TO PROPOSED 2GI AT STA. 23+17 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

7
JESSE A. COUNCIL
DB R-10 PG 705
90 x 15 x 2
ID 5.4

11
BETTY J. ROGERSON
WB 10-E PG 60

INSTALL UNDERDRAINS FROM -L- STA. 27+00 TO 32+00, LEFT SIDE. OUTLET UNDERDRAIN INTO DITCH AT STA. 27+00 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP

90 x 15 x 2
ID 5.5

PC Sta. 27+22.77

30

REDDICK REALTY, INC.
DB K-14 PG 62
14

PROP. CONC. 5" MONOLITHIC ISLAND (KEYED-IN)

CLASS 'B' RIP RAP
EST. 3 TONS
10 SY GEOTEXTILE

2' BASE SDG
SEE DETAIL 'G'

SDG
SEE DETAIL B

HEAD DITCH
SEE DETAIL C

REMOVE HEADWALL

REMOVE PIPE

GRADE TO DRAIN ROADWAY TO BE REMOVED

-L- STA 32+44.05 = -Y- STA 23+53.79

150' R-50' R-150' R
5' OFFSET

2' R
+73.28
8.5' LT

BEGIN C&G
+74.80

2' R
+46.89
14.5' RT

180'-60'-180', 6' OFFSET

PT Sta. 34+48.40

PT Sta. 25+19.15

PT Sta. 36+35.13

MATCHLINE -L- STA 25+00.00
SEE SHEET 4

MATCHLINE -L- STA 39+00.00
SEE SHEET 6

MATCHLINE -Y- STA 26+00.00
SEE SHEET 14

6
HEIRS OF DOROTHY RHODES
DB K-12 PG 309

9
RUSSELL L. & MARCIA A. WELLS
DB Q-18 PG 921

10
GEORGE PARKER
DB E-20 PG 1

82 x 15 x 2
ID 5.2

24 x 12 x 2
ID 5.3

6
OF DOROTHY RHODES
DB K-12 PG 309

CLASS 'B' RIP RAP
EST. 5 TONS
14 SY GEOTEXTILE

CLASS 'B' RIP RAP
EST. 2 TONS
7 SY FILTER FABRIC

15
HEIRS OF N.L. WASHINGTON
DB X-5 PG 259

16
WILLIAM R. JONES
DB Q-4 PG 223

17
NATHAN E. STANCILL
DB N-7 PG 419

18
MICHAEL R. STANCIL
DB E-14 PG 860

19
NATHAN E. STANCILL
DB M-11 PG 276

INSTALL UNDERDRAINS FROM -L- STA. 33+00 TO 36+00, RIGHT SIDE. OUTLET UNDERDRAIN INTO DITCH AT STA. 33+50 RT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

INSTALL UNDERDRAINS FROM -Y- STA. 24+00 TO 29+29, LEFT SIDE. TIE TO PROPOSED 2GI AT STA. 29+29 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

INSTALL UNDERDRAINS FROM -L- STA. 36+00 TO 39+50, RIGHT SIDE. OUTLET UNDERDRAIN INTO DITCH AT STA. 39+50 RT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

90 x 15 x 2
ID 6.6

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR -L- PROFILE, SEE SHEET 16
FOR -Y- PROFILE, SEE SHEET 21

9/26/2016
R3826_erosion_control_final_psh_5.dgn
TEA ENGINEERING, INC.

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-18/CONST.6
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 6

NAD 83/96

5/14/99

DETAIL A
2' BASE SDG W/RIP RAP
(Not to Scale)

Natural Ground, 3:1 or Flatter, 4:1 or Flatter, Front Ditch Slope, Filter Fabric, D, d, B

Min. D= 1Ft.
Max. d= 1Ft.
B= 2 Ft.

Type of Liner= Class 'B' Rip-Rap

FROM STA. 46+05 -L- TO STA. 46+50 -L- RT

DETAIL B
CUT DITCH
(Not to Scale)

Natural Ground, 3:1 or Flatter, 4:1 or Flatter, Front Ditch Slope, D

Min. D= 1Ft.

FROM STA. 37+50 -L- TO STA. 39+61 -L- LT
FROM STA. 39+61 -L- TO STA. 41+50 -L- LT
FROM STA. 41+50 -L- TO STA. 46+07 -L- LT
FROM STA. 46+07 -L- TO STA. 47+00 -L- LT
FROM STA. 40+00 -L- TO STA. 40+50 -L- RT
FROM STA. 45+00 -L- TO STA. 46+05 -L- RT
FROM STA. 46+50 -L- TO STA. 48+50 -L- RT

DETAIL G
2' BASE SDG
(Not to Scale)

Natural Ground, 3:1 or Flatter, 4:1 or Flatter, Front Ditch Slope, D, B

Min. D= 1Ft.
B= 2 Ft.

FROM STA. 36+80 -L- TO STA. 39+63 -L- RT
FROM STA. 39+63 -L- TO STA. 40+00 -L- RT

SEE SHEET 5
MATCHLINE -L- STA 39+00.00

14
32 x 12 x 2
ID 6.5

21
REDDICK REALTY, INC.
DB A-17 PG 780

24 x 12 x 2
ID 6.7

22
ROBERSON ASPHALT, LLC
DB Z-21 PG 787

26 x 10 x 2
ID 6.11

24
ROBERSON BUSINESS PARK
PC C SLIDE 61-D

20
MARY ALICE T. ROBERSON
DB M-20 PG 692

MATCHLINE -L- STA 53+00.00
SEE SHEET 7

PC Sta. 46+71.62
PT Sta. 51+07.55

5 LP
BL-13
BL-14
SOIL
CULT.
GR
ISBLK BUS
25BLK BUS
CON
24" C&G
22' BST
BST PA
EXISTING R/W
50.00'
30' INC
+77.85
±31.62
N 5°17'59.8" E
-L-
2'6" CURB AND GUTTER
36'
30'
REMOVE DI
REMOVE 12" RCP
REMOVE JB AND CMP
15" RCP-III
18" RCP-III
30" RCP-III
12" RCP
36" RCP
CMP
CB
JB
DI
SDG SEE DETAIL B
2' BASE SDG SEE DETAIL G
2' BASE SDG 'W' CLASS 'B' RIP RAP EST. 21 TONS 16 SY FILTER FABRIC SEE DETAIL A
TIE TO EXISTING DITCH
CLASS 'B' RIP RAP EST. 3 TONS 10 SY GEOTEXTILE
CLASS 'B' RIP RAP EST. 11 TONS 28 SY GEOTEXTILE
CLASS 'B' RIP RAP EST. 8 TONS 21 SY FILTER FABRIC
INSTALL UNDERDRAINS FROM STA. 40+00 TO 45+00, RIGHT SIDE. OUTLET UNDERDRAIN INTO DITCH AT STA. 40+00 RT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP
PT Sta. 40+37.85
37 x 12 x 2
ID 6.12
90 x 15 x 2
ID 6.6
GRABB TO DRAIN ROADWAY TO BE REMOVED
NAT. GAS DEAD ENDS HERE
RICHARD E. ROBERSON
DB A-23 PG 244
CHARLES B. ROBERSON
DB W-19 PG 898

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR -L- PROFILE, SEE SHEET 17

R3826_9/26/2016_erosion_control_final_psh_6.dgn
TAA ENGINEERING INC.

5/14/99

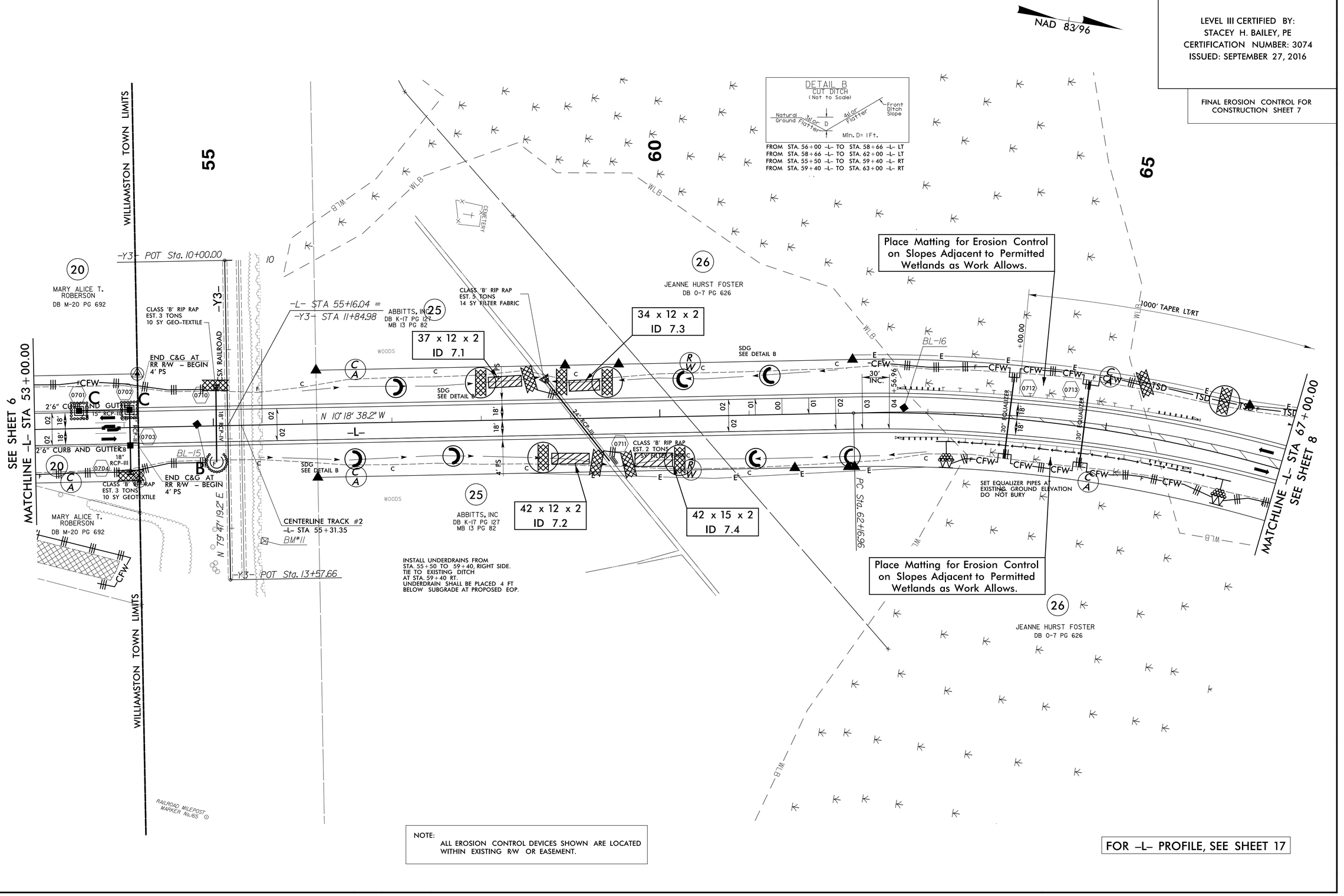
PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-19/CONST.7
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 7

NAD 83/96



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-20/CONST.8
R/W SHEET NO.	

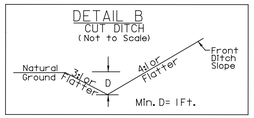
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 8

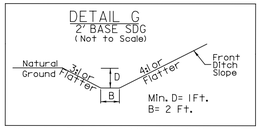
NAD 83/96

DETAIL B
CUT DITCH
(Not to Scale)



FROM STA. 71+50 -L- TO STA. 74+96 -L- RT
FROM STA. 74+96 -L- TO STA. 79+50 -L- LT
FROM STA. 67+00 -L- TO STA. 75+03 -L- LT
FROM STA. 75+03 -L- TO STA. 79+50 -L- LT

DETAIL G
2' BASE SDG
(Not to Scale)



FROM STA. 74+96 -L- TO STA. 79+50 -L- RT

70

75

JEANNE HURST FOSTER
DB 0-7 PG 626
26

1000' TAPER LT/RT

BL-17

WOODS

CULT.

27

LILLEY FAMILY, LLC
DB U-15 PG 500

75 x 15 x 2
ID 8.3

CLASS 'B' RIP RAP
EST 5 TONS
14 SY GEOTEXTILE

93 x 16 x 2
ID 8.4

INSTALL UNDERDRAINS FROM STA. 76+50 TO 79+50 LEFT SIDE. OUTLET UNDERDRAIN TO DITCH AT STA. 76+50 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

SEE SHEET 7
MATCHLINE -L- STA 67+00.00

CWD
CFW
TSD
SDG
SEE DETAIL
2' BASE SDG
SEE DETAIL 'G'
TD
100' TAPER
N 42° 05' 35.4" E
PT Sta. 76+80.35
MATCHLINE -L- STA 79+00.00
SEE SHEET 9

LILLEY FAMILY, LLC
DB U-15 PG 500

75 x 20 x 2
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
5 ft. weir
ID 8.1

64 x 14 x 2
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
5 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 8.2

Modified Silt Basin
Type 'B'
64 x 14 x 2
5 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 8.2

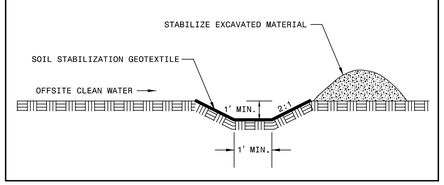
JEANNE HURST FOSTER
DB 0-7 PG 626
26

ARNOLD &
THEODOSIA ROBINSON
DB J-14 PG 60

CLEAN WATER DIVERSION

CWD CWD CWD CWD

(Not to Scale)



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR -L- PROFILE, SEE SHEET 18

9/26/2016
R3826_02_erosion_control_final_psh_8.dgn
TAB ENGINEERING, INC.

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-21/CONST.9
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 9

5/14/99

NAD 83/96

SEE SHEET 15
MATCHLINE -Y1- STA 17+00.00

SEE SHEET 8
MATCHLINE -L- STA 79+00.00

MATCHLINE -L- STA 93+00.00
SEE SHEET 10

DETAIL B
CUT DITCH
(Not to Scale)

Natural Ground — 3:1 or Flatter — D — 4:1 or Flatter — Front Ditch Slope

Min. D= 1Ft.

FROM STA. 81+00 -L- TO STA. 89+00 -L- LT
FROM STA. 81+00 -L- TO STA. 85+50 -L- RT
FROM STA. 17+25 -Y1- TO STA. 19+83 -Y1- RT
FROM STA. 21+00 -Y1- TO STA. 22+00 -Y1- RT
FROM STA. 22+00 -Y1- TO STA. 25+25 -Y1- RT
FROM STA. 14+00 -Y1- TO STA. 19+81 -Y1- LT
FROM STA. 21+00 -Y1- TO STA. 22+25 -Y1- LT

30 PEGGY O. HARRELL
DB R-8 PG 713

INSTALL UNDERDRAIN FROM -Y1- STA. 14+00 TO 19+83, RIGHT SIDE. TIE TO -L- LINE UNDERDRAIN AT -L- STA. 79+50 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

27 LILLEY FAMILY, LLC
DB U-15 PG 500

31 JAMES A. & DOROTHY CULLIPHER
DB X-8 PG 689

35 SIMON A. GRIFFIN
WB 09-E PG 147
L-299 (UNRECORD MAP)

85

90

PC Sta. 18+35.53

PT Sta. 19+91.74

PC Sta. 83+08.62

PRC Sta. 89+65.57

BL-18

BL-19

-Y1- STA 20+49.17 = -L- STA 80+28.82

END CONSTRUCTION
-Y1- STA 24+50.00

PC Sta. 24+78.77

120 x 20 x 2
ID 9.2
RUBICEL C. OVANDO & JESUS C. CUPIL
DB T-23 PG 213

INSTALL UNDERDRAIN FROM -L- STA. 81+00 TO 87+00, LEFT SIDE. OUTLET UNDERDRAIN TO DITCH AT STA. 81+00 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

78 x 20 x 2.0
1.5 inch Skimmer with 0.75 inch Orifice Diameter
12 ft. weir
(See Tiered Skimmer Basin Detail)
ID 9.1

Modified Silt Basin Type 'B'
78 x 20 x 2
12 ft. weir
(See Tiered Skimmer Basin Detail)
ID 9.1

656.95' TAPER RT

150' TAPER

265' TAPER LTRT

360' TAPER

CLASS 'B' RIP RAP
EST. 5 TONS
14 SY GEOTEXTILE

FIELD ADJUSTABLE FILTERABLE MATERIAL

CLASS 'B' RIP RAP
EST. 2 TONS
7 SY FILTER FABRIC

CLASS 'B' RIP RAP
EST. 5 TONS
11 SY GEOTEXTILE

SDG SEE DETAIL 'B'

LARRY W. & WANDA M. SPELLER
DB H-9 PG 43

33

INSTALL UNDERDRAIN FROM -Y1- STA. 21+00 TO 25+75, RIGHT SIDE. TIE TO -L- LINE UNDERDRAIN AT -L- STA. 79+50 RT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

SHELBY MODLIN
DB R-8 PG 149
DB A-13 PG 468

ARNOLD & THEODOSIA ROBINSON
DB J-14 PG 60

WOODS

CULT.

ISBKO

ISBKO

WLLB

MLB

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR -L- PROFILE, SEE SHEET 18
FOR -Y1- PROFILE, SEE SHEET 21

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-22/CONST.JO
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 10

NAD 83'96

95 100 105

35
SIMON A. GRIFFIN
WB 09-E PG 147

BL-20

WOODS

CULT.

-L-

B

18" RCP

CLASS B RIP RAP
EST. 3 TONS
10 SY FILTER FABRIC

15" HDPE

PT Sta.102+26.11

MATCHLINE -L- STA 93+00.00
SEE SHEET 9

MATCHLINE -L- STA 107+00.00
SEE SHEET 11

2' LATERAL BASE DITCH
SEE DETAIL D

WLB

35
SIMON A. GRIFFIN
WB 09-E PG 147

DETAIL D
2' LATERAL BASE DITCH
(Not to Scale)

Natural Ground — 3:1 — D — B — 3:1 — b — 1'/Ft. — Fill Slope

Min. D= 1Ft.
B= 2 Ft.
b= 5 Ft.

FROM STA. 106+50 -L- TO STA. 119+00 -L- RT

CLEAN WATER DIVERSION
CWD CWD CWD CWD
(Not to Scale)

STABILIZE EXCAVATED MATERIAL
SOIL STABILIZATION GEOTEXTILE
OFFSITE CLEAN WATER
1' MIN.
2:1
1' MIN.

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR -L- PROFILE, SEE SHEET 19

9/26/2016
R3826_hydraulics_erosion_control_final_psh_10.dgn
TEA ENGINEERING INC

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-23/CONST.11
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 11

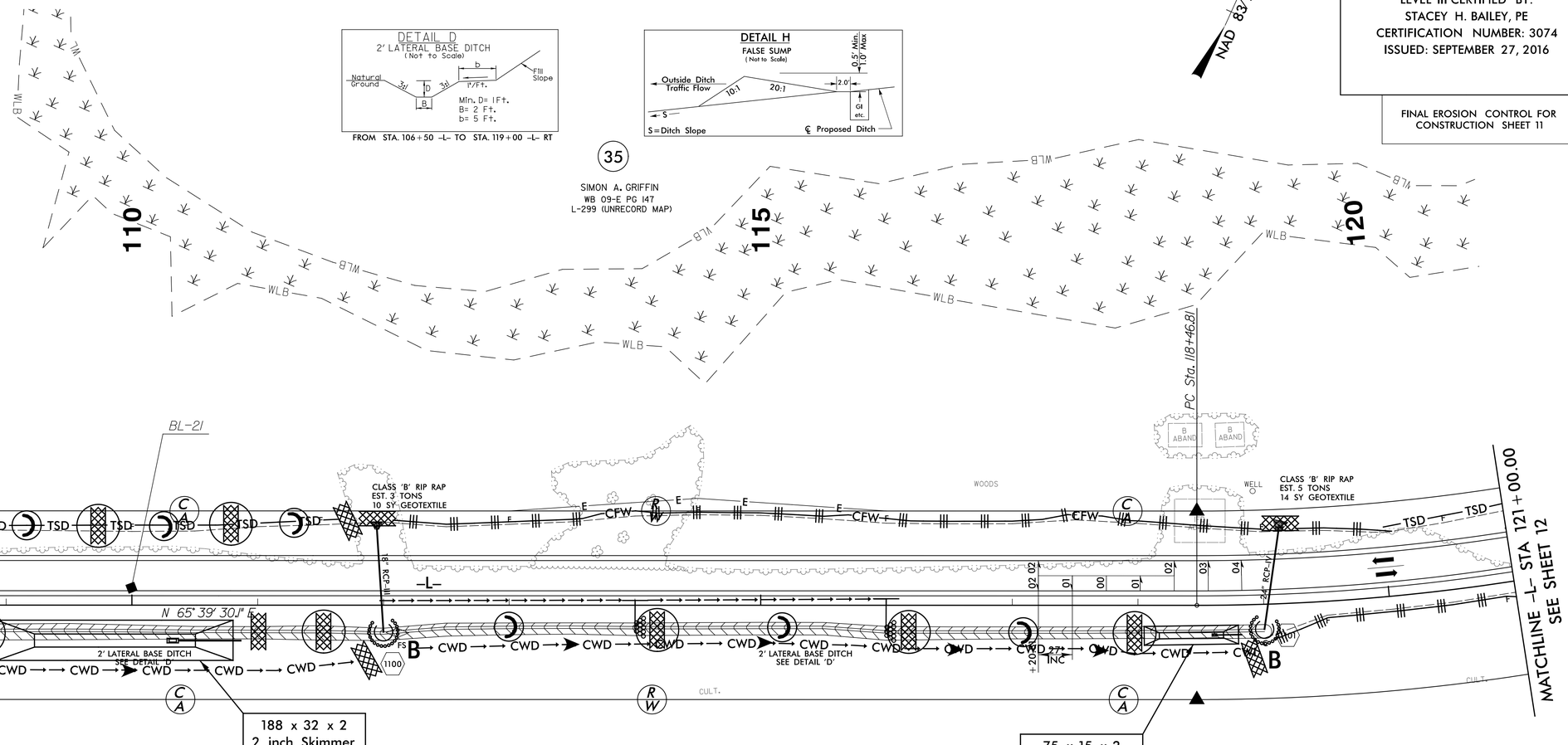
NAD 83/96

DETAIL D
2' LATERAL BASE DITCH
(Not to Scale)

FROM STA. 106+50 –L– TO STA. 119+00 –L– RT

DETAIL H
FALSE SUMP
(Not to Scale)

35
SIMON A. GRIFFIN
WB 09-E PG 147
L-299 (UNRECORD MAP)



188 x 32 x 2
2 inch Skimmer
with 1.625 inch
Orifice Diameter
23 ft. weir
ID 11.1

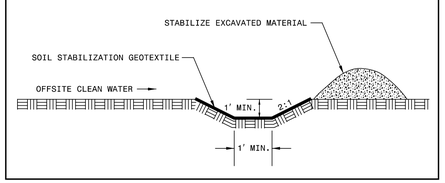
75 x 15 x 2
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 11.2

35
SIMON A. GRIFFIN
WB 09-E PG 147
L-299 (UNRECORD MAP)

CLEAN WATER DIVERSION

CWD CWD CWD CWD

(Not to Scale)



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR –L– PROFILE, SEE SHEET 19

9/26/2016
R3826_Roadside_erosion_control_final_psh_11.dgn
I:\ENGINEERING\

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-24/CONSTJ2
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 12

NAD 83/96

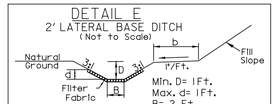
SEE SHEET 11
MATCHLINE –L– STA 121+00.00

35
SIMON A. GRIFFIN
WB 09-E PG 147
L-299 (UNRECORD MAP)

125

130

DETAIL E
2' LATERAL BASE DITCH
(Not to Scale)



Type of Liner= Class 'B' Rip-Rap
FROM STA. 134+00 –L– TO STA. 135+50 –L– RT

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

36
JOSEPH C. LEGGETT
DB E-12 PG 887
MB 8 PG 57

1400' TAPER LT

BEGIN SBG +51.15

CLASS 'I' RIP RAP
EST. 21 TONS
49 SY FILTER FABRIC

BM#13

END SBG +76.15

MATCHLINE –L– STA 135+00.00
SEE SHEET 13

GRAU-350

2CI W/ FLAT GRATE

15" RCP III

GRAU-350

150' RT LANE TAPER

2' LATERAL BASE DITCH W/CLASS 'B' RIP RAP
EST. 65 TONS
48 SY FILTER FABRIC
SEE DETAIL 'E'

BL-22

BL-23

BL-24

2CI W/ FLAT GRATE

18" RCP

6'x6' RCBC

CLASS 'B' RIP RAP
EST. 5 TONS
10 SY FILTER FABRIC

CLASS 'I' RIP RAP
EST. 38 TONS
FILTER FABRIC

750' TAPER RT

35
SIMON A. GRIFFIN
WB 09-E PG 147
L-299 (UNRECORD MAP)

JOSEPH C. LEGGETT
DB E-12 PG 887
MB 8 PG 57

36
JOSEPH C. LEGGETT
DB E-12 PG 887
MB 8 PG 57

87 x 30 x 2
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
10 ft. weir
ID 12.1

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

80 x 25 x 2
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
8 ft. weir
ID 12.2

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR –L– PROFILE, SEE SHEET 20

FOR CULVERT, SEE SHEET C-1 THROUGH C-5

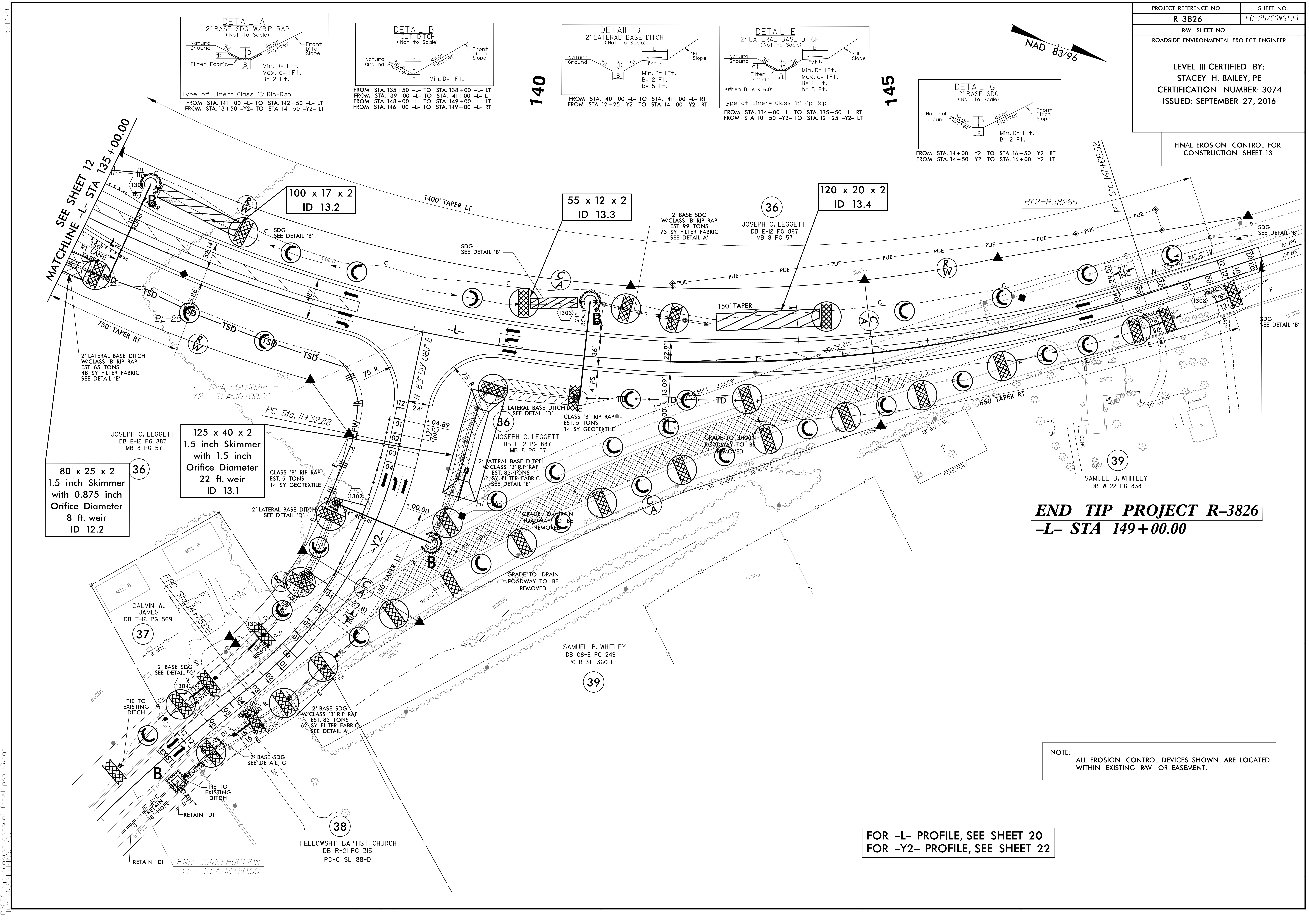
11/15/2016
R3826 highway erosion control final psh 12.dgn
1:20 ENGINEERING INC

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-25/CONSTJ3
R/W SHEET NO.	

ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR
CONSTRUCTION SHEET 13



FROM STA. 141+00 -L- TO STA. 142+50 -L- LT
FROM STA. 13+50 -Y2- TO STA. 14+50 -Y2- LT

FROM STA. 135+50 -L- TO STA. 138+00 -L- LT
FROM STA. 139+00 -L- TO STA. 141+00 -L- LT
FROM STA. 148+00 -L- TO STA. 149+00 -L- LT
FROM STA. 146+00 -L- TO STA. 149+00 -L- RT

FROM STA. 140+00 -L- TO STA. 141+00 -L- RT
FROM STA. 12+25 -Y2- TO STA. 14+00 -Y2- RT

FROM STA. 134+00 -L- TO STA. 135+50 -L- RT
FROM STA. 10+50 -Y2- TO STA. 12+25 -Y2- LT

FROM STA. 14+00 -Y2- TO STA. 16+50 -Y2- RT
FROM STA. 14+50 -Y2- TO STA. 16+00 -Y2- LT

END TIP PROJECT R-3826
-L- STA 149+00.00

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR -L- PROFILE, SEE SHEET 20
FOR -Y2- PROFILE, SEE SHEET 22

9/26/2016
R3826_hyd_erosion_control_final_psh_13.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-26/CONST.14
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 14

NAD 83/96

DETAIL A
2' BASE SDG W/RIP RAP
(Not to Scale)

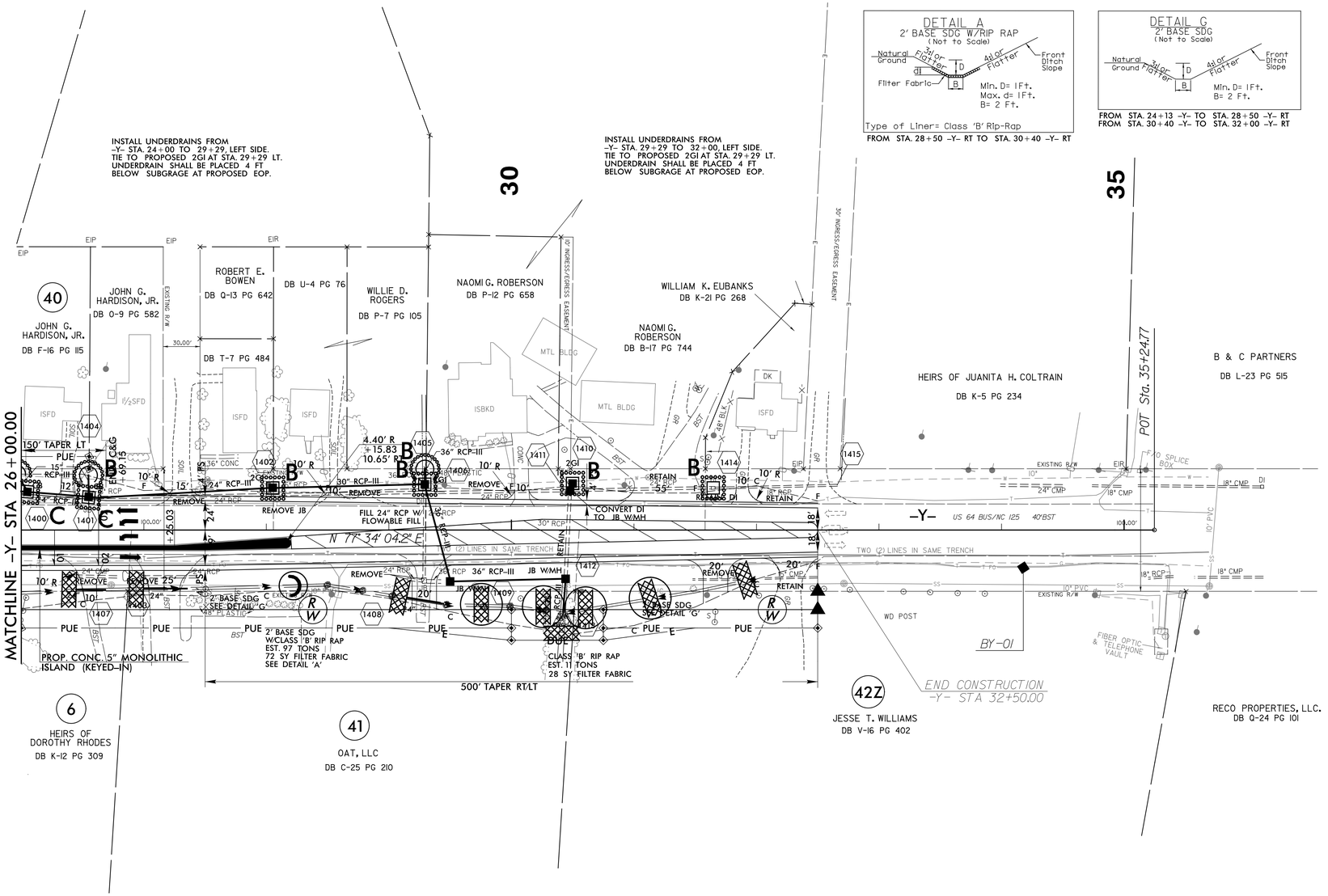
Type of Liner= Class 'B' Rip-Rap
FROM STA. 28+50 -Y- RT TO STA. 30+40 -Y- RT

DETAIL G
2' BASE SDG
(Not to Scale)

FROM STA. 24+13 -Y- TO STA. 28+50 -Y- RT
FROM STA. 30+40 -Y- TO STA. 32+00 -Y- RT

INSTALL UNDERDRAINS FROM -Y- STA. 24+00 TO 29+29, LEFT SIDE. TIE TO PROPOSED 2GI AT STA. 29+29 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.

INSTALL UNDERDRAINS FROM -Y- STA. 29+29 TO 32+00 LEFT SIDE. TIE TO PROPOSED 2GI AT STA. 29+29 LT. UNDERDRAIN SHALL BE PLACED 4 FT BELOW SUBGRADE AT PROPOSED EOP.



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR -Y- PROFILE, SEE SHEET 21

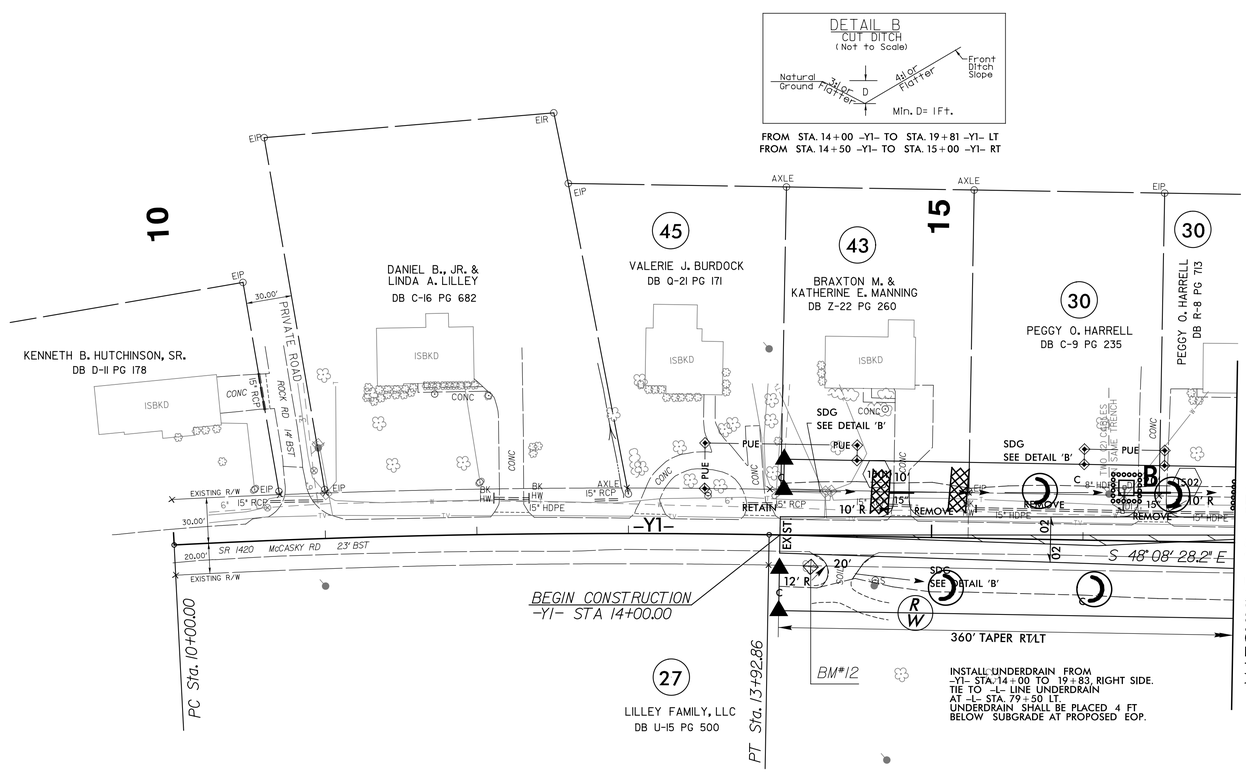
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
R-3826	EC-27/CONST.15
R/W SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

LEVEL III CERTIFIED BY:
STACEY H. BAILEY, PE
CERTIFICATION NUMBER: 3074
ISSUED: SEPTEMBER 27, 2016

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 15

NAD 83/96



NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT.

FOR -Y1- PROFILE, SEE SHEET 21

9/26/2016
R3826_riverstone_erosion_control_final_psh_15.dgn
TAILENGINEERING, INC.