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TIP PROJECT: B-4616

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4616	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

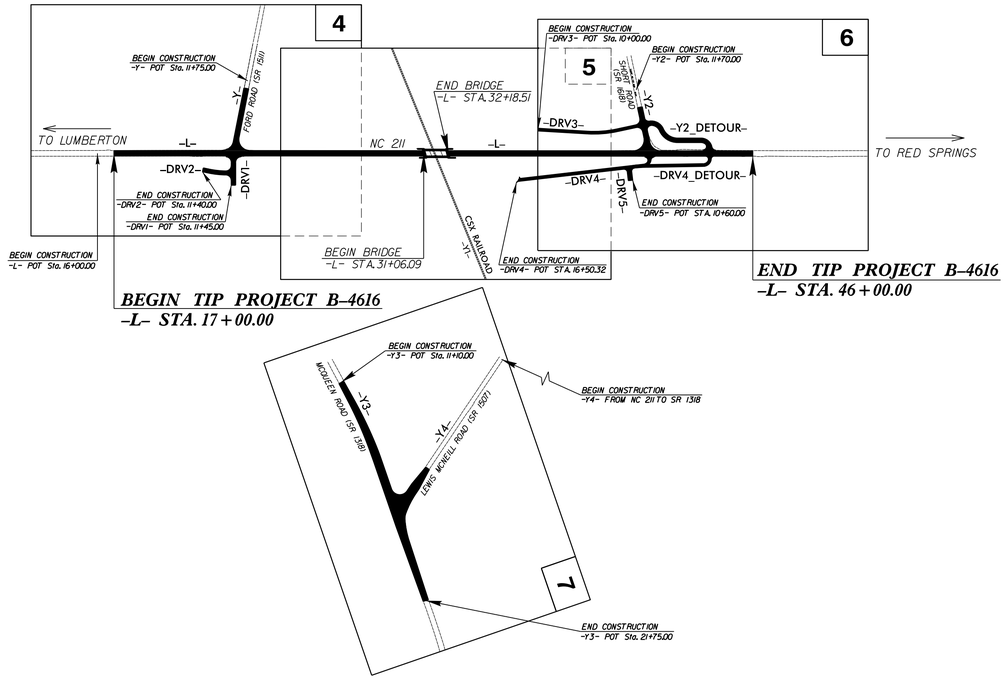
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

ROBESON COUNTY

LOCATION: BRIDGE NO. 18 OVER CSX RAILROAD ON NC 211

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

NAD 83/95



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	
	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

Designed by:

Benjamin Bradley ***3873***
NAME *LEVEL III CERTIFICATION NO.*

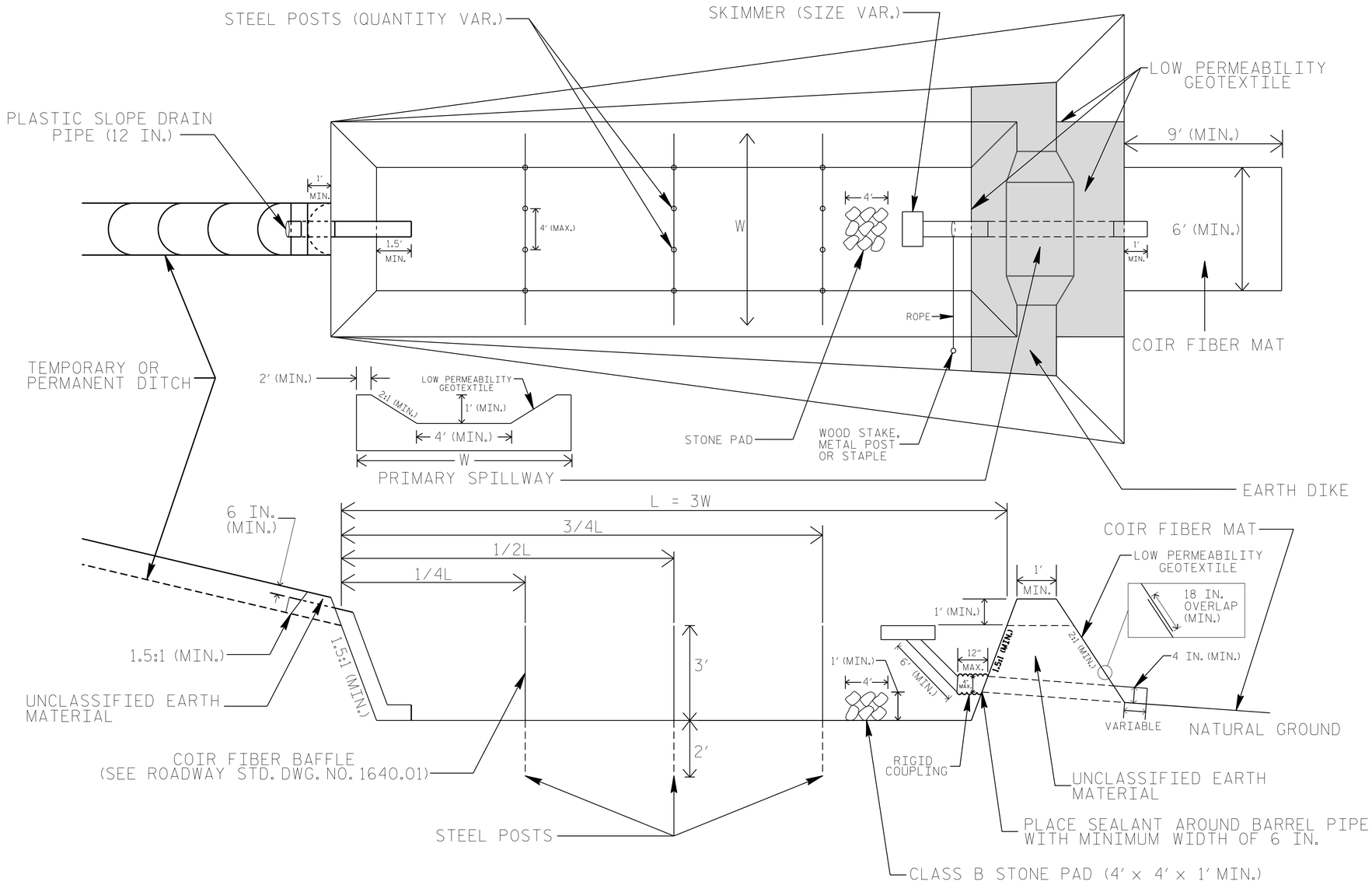
Roadway Standard Drawings

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

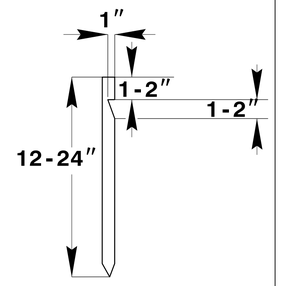
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type 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		

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

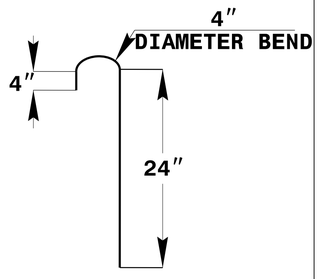
SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



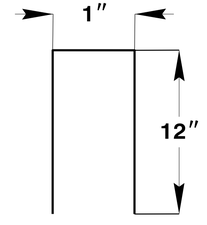
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

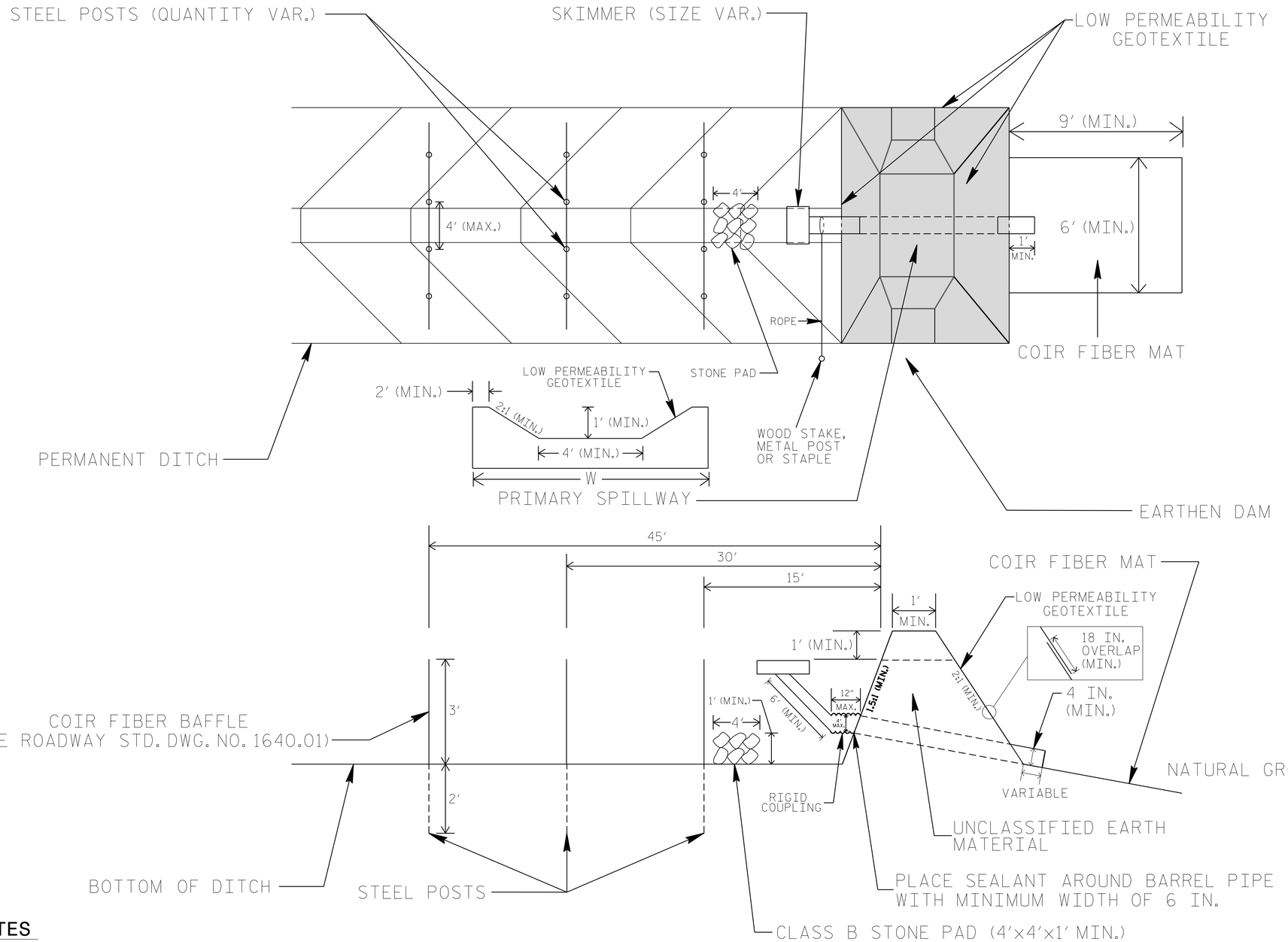
NOTES

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.).

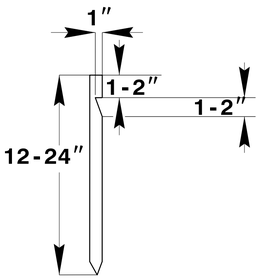
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

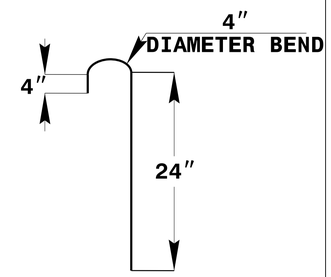
EARTHEN DAM WITH SKIMMER DETAIL (EAST)



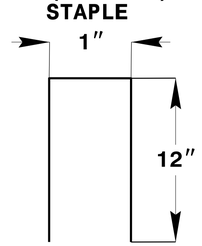
2″ x 2″ (nominal) WOODEN STAKE



#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.
B-4616	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 1060-14.

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.

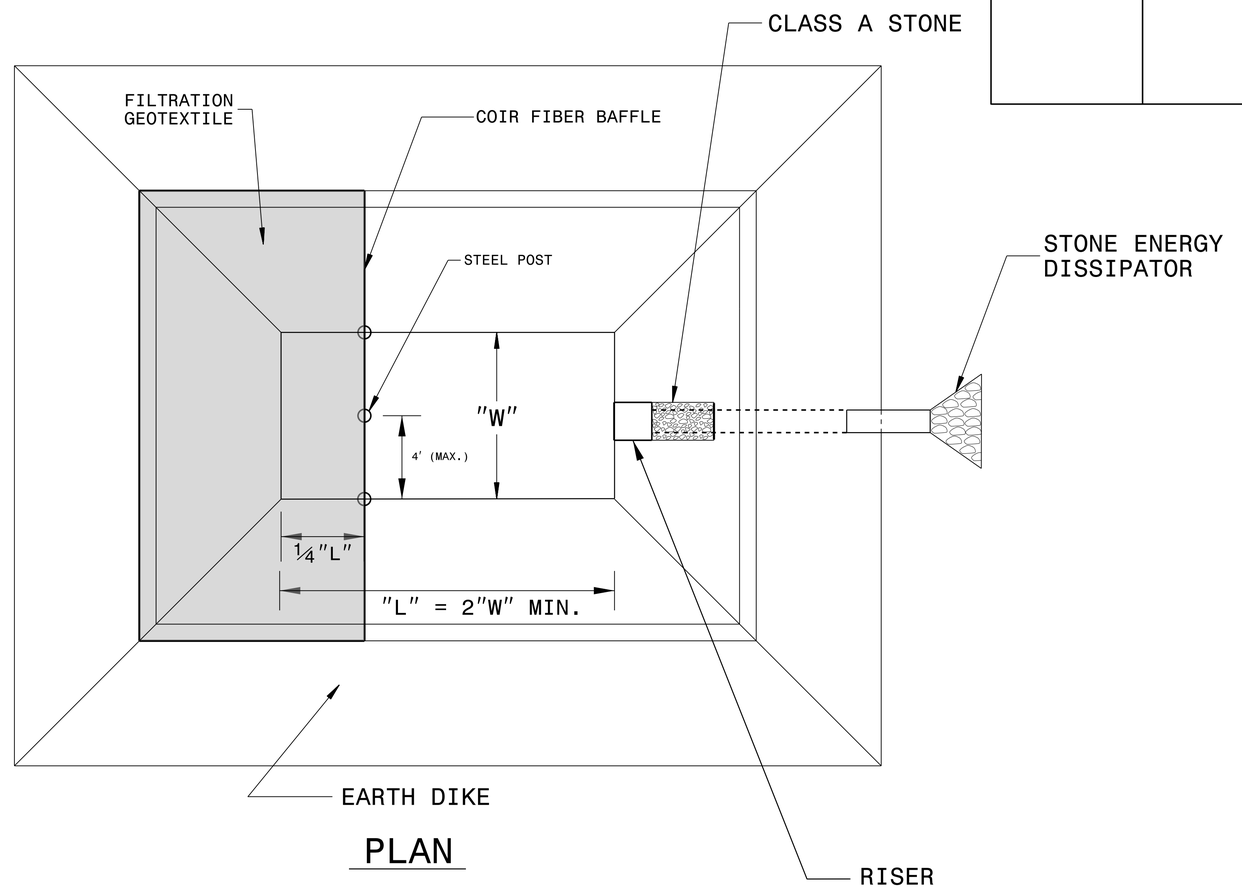
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

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

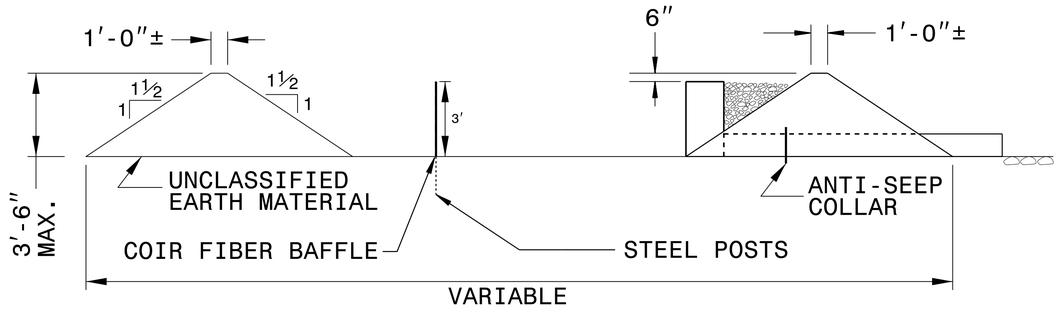
SUBMIT THE SIZE, LOCATION AND RISER PIPE MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

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

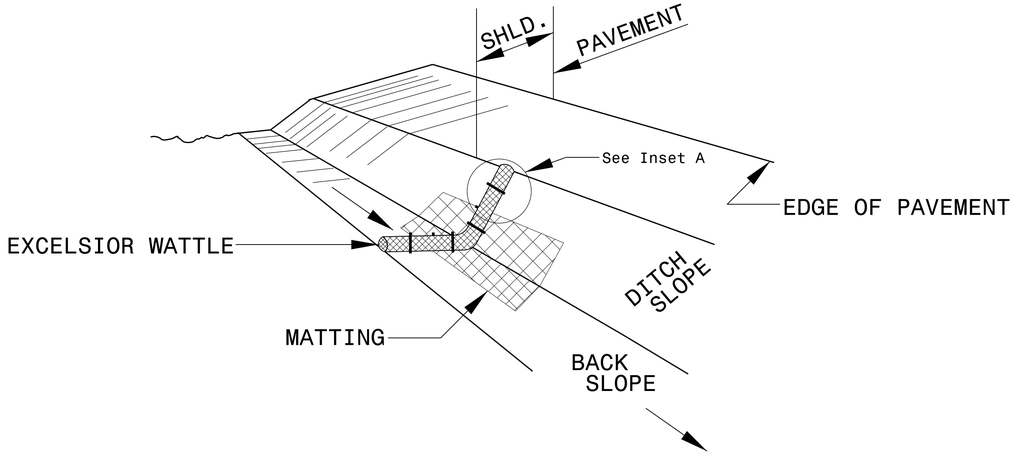


TYPICAL SECTION VIEW

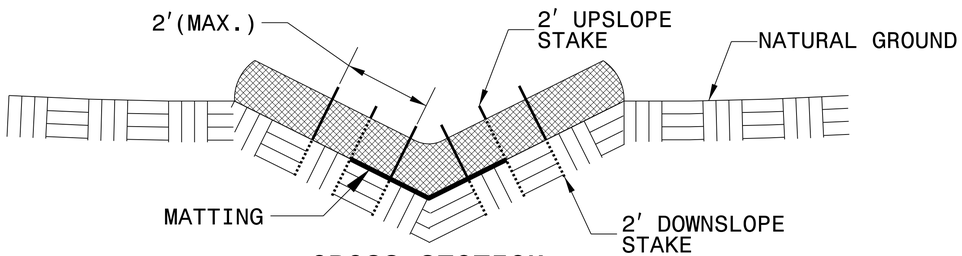
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

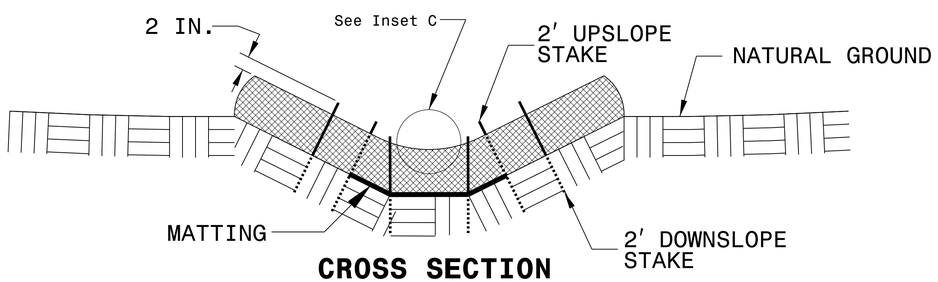
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

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.

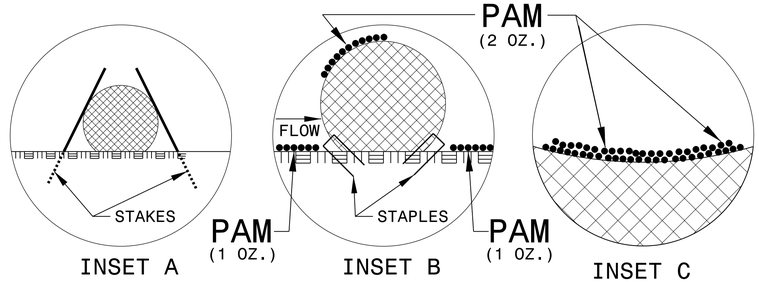
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

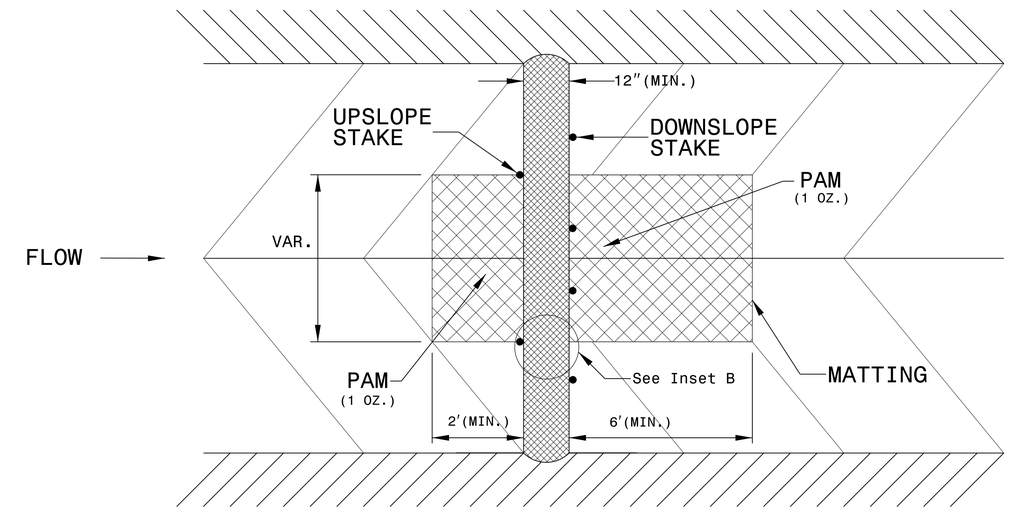
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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.

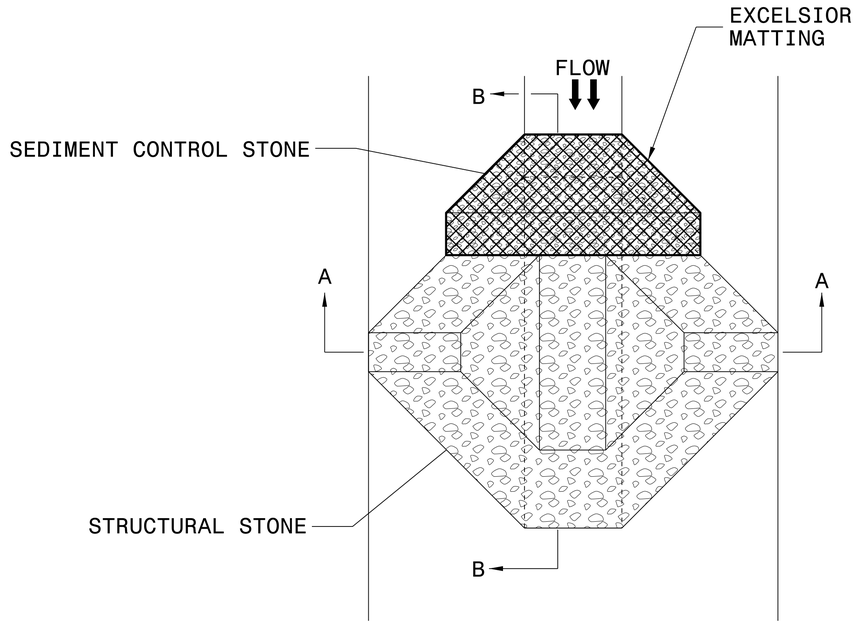




TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-2D
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN

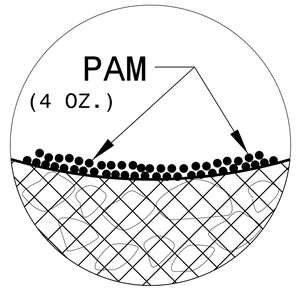
NOTES:

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

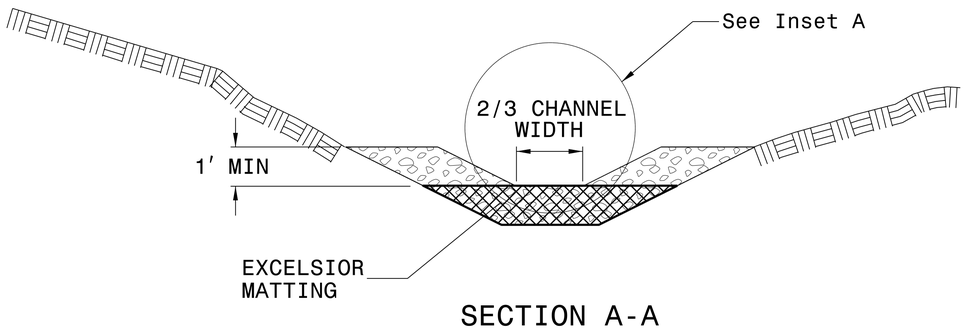
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

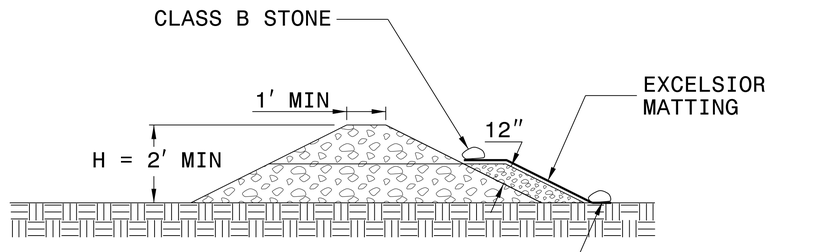
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A

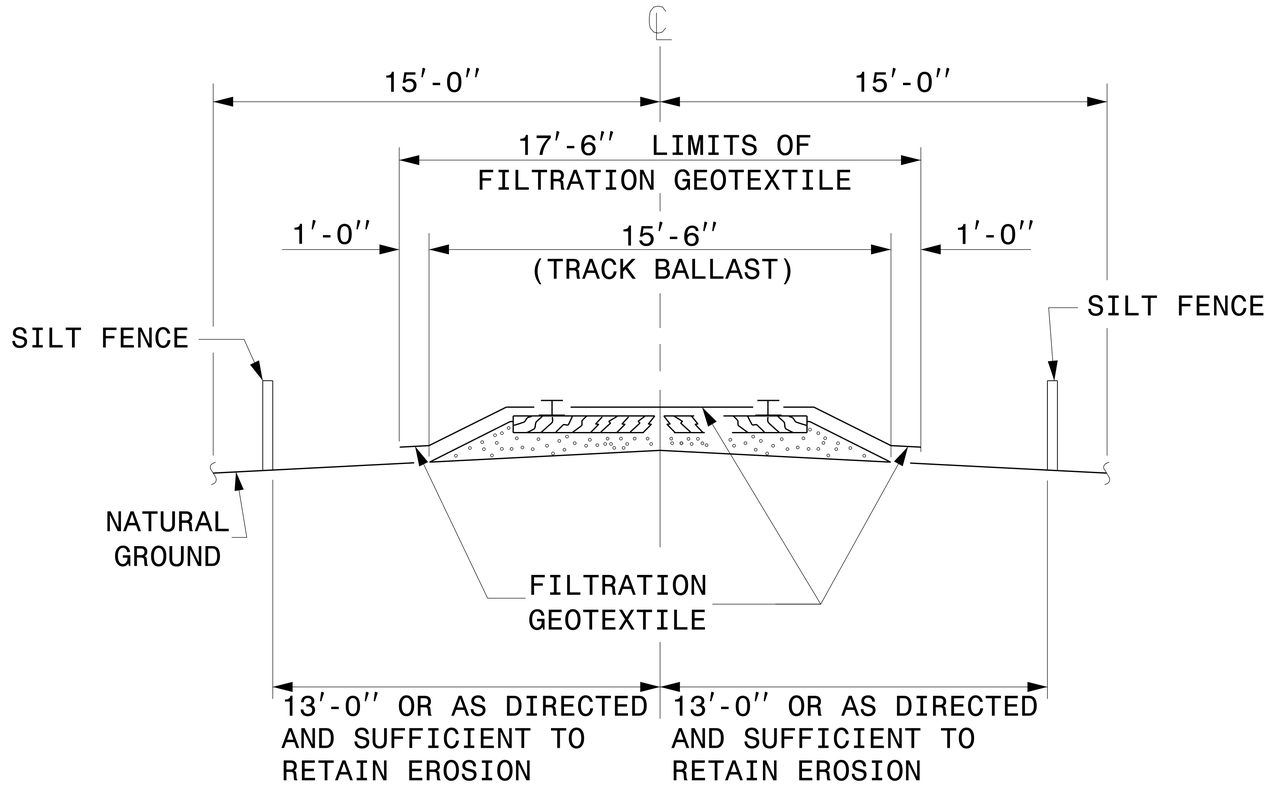


SECTION B-B

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-2E
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

RAILROAD EROSION CONTROL DETAIL



NOTES

INSTALL RAILROAD EROSION CONTROL MEASURES PRIOR TO PERFORMING ANY WORK IN THE RAILROAD RIGHT-OF-WAY.

ADDITIONAL EROSION CONTROL MEASURES FOR PROTECTION OF RAILROAD DITCHES MAY BE REQUIRED AS DIRECTED.

NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR RAILROAD EROSION CONTROL MEASURES.

EXTEND LIMITS OF SILT FENCE AND FILTRATION GEOTEXTILE PARALLEL TO RAILROAD A MINIMUM OF 10′-0″ OUTSIDE EDGE OF SUPERSTRUCTURE OR TOE OF SLOPE ON CONSTRUCTION. A GREATER LENGTH OF SILT FENCE OR FILTRATION GEOTEXTILE MAY BE REQUIRED AS DIRECTED.

NAIL FILTRATION GEOTEXTILE TO TIMBER RAIL TIES WITH PRIME SOURCE ''GRIP CAP'' OR EQUIVALENT. SECURE FILTRATION GEOTEXTILE ON SHOULDER AS DIRECTED BY THE RAILROAD AND NCDOT.

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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-	16+50	18+00	RT	260
6	Y2	12+00	13+50	LT	105
7	Y3	12+00	14+00	LT	245
				SUBTOTAL	610
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					23,000
				TOTAL	23,610
				SAY	24,000

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

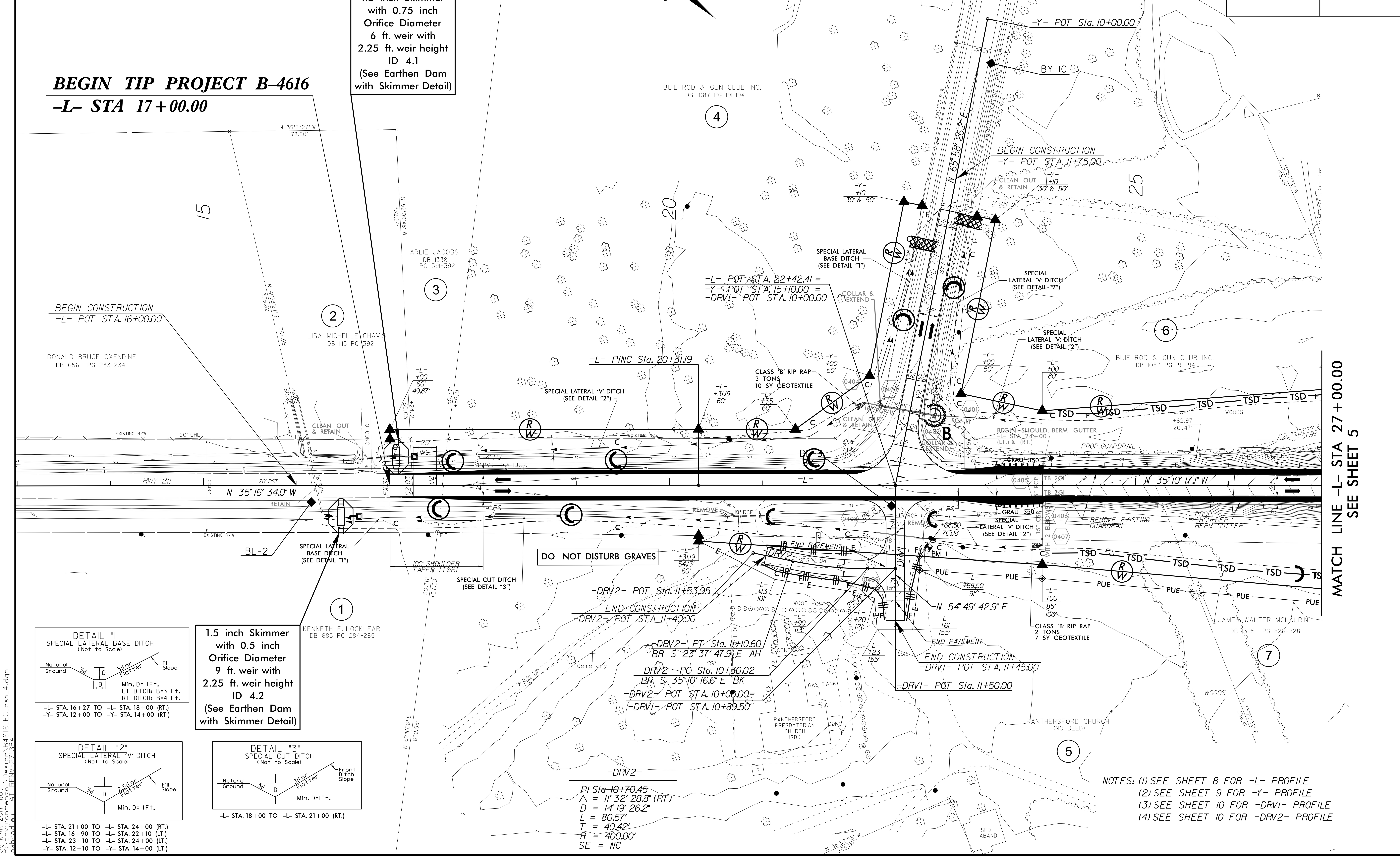
SOIL STABILIZATION TIMEFRAMES

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.

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

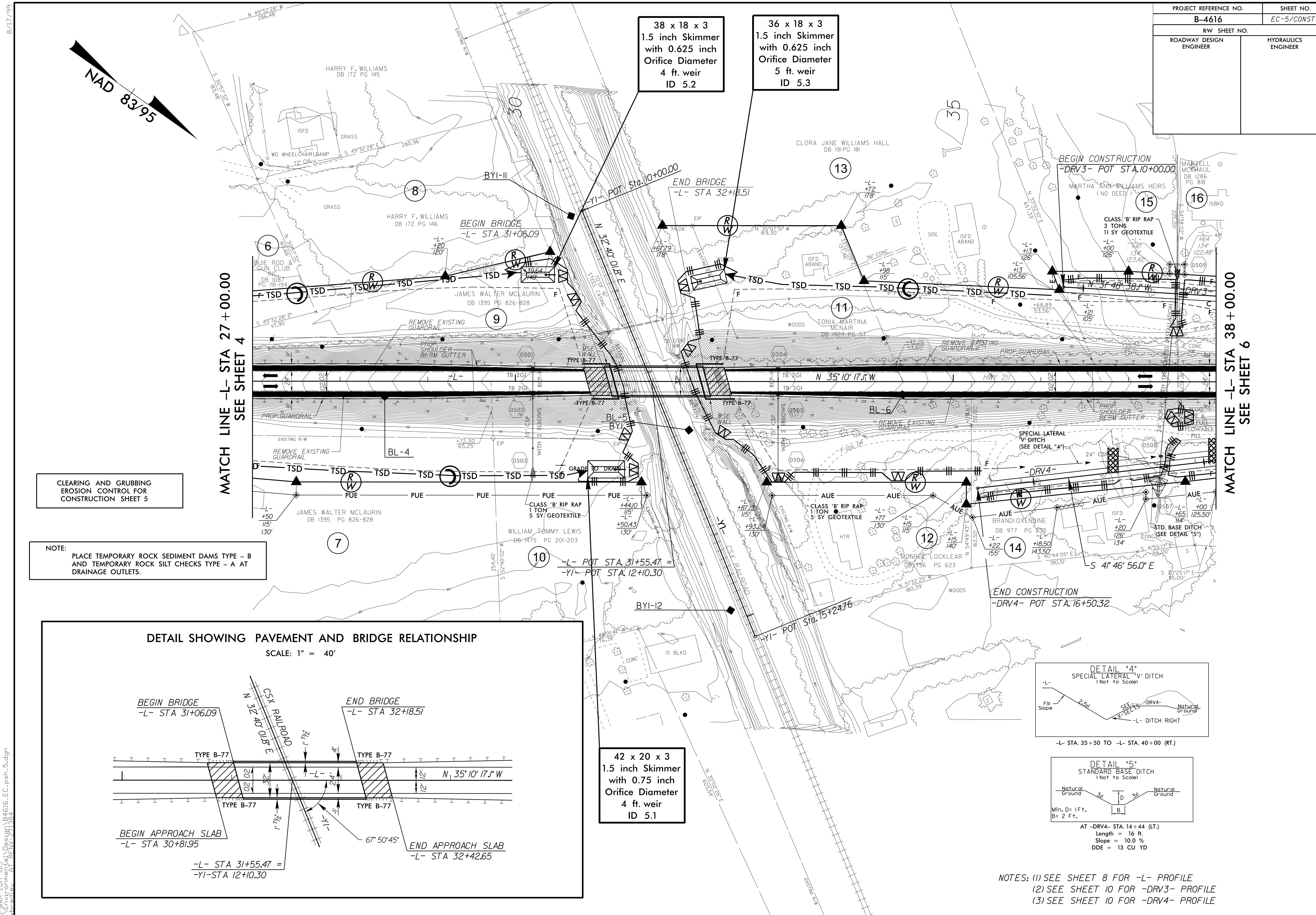
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.



NAD 83/95
BEGIN TIP PROJECT B-4616
-L- STA 17+00.00
1.5 inch Skimmer with 0.75 inch Orifice Diameter 6 ft. weir with 2.25 ft. weir height ID 4.1 (See Earthen Dam with Skimmer Detail)
1.5 inch Skimmer with 0.5 inch Orifice Diameter 9 ft. weir with 2.25 ft. weir height ID 4.2 (See Earthen Dam with Skimmer Detail)
BEGIN CONSTRUCTION -L- POT STA. 16+00.00
-Y- POT Sta. 10+00.00
BY-10
BEGIN CONSTRUCTION -Y- POT STA. 11+75.00
BUIE ROD & GUN CLUB INC. DB 1087 PG 191-194
ARLIE JACOBS DB 1338 PG 391-392
LISA MICHELLE CHAVIS DB 1115 PG 392
DONALD BRUCE OXENDINE DB 656 PG 233-234
KENNETH E. LOCKLEAR DB 685 PG 284-285
JAMES WALTER MCLAURIN DB 1395 PG 826-828
PANTHERSFORD CHURCH (NO DEED)
PANTHERSFORD PRESBYTERIAN CHURCH
-L- POT STA. 22+42.41 = -Y- POT STA. 15+10.00 = -DRV1- POT STA. 10+00.00
-L- PINC Sta. 20+31.19
SPECIAL LATERAL BASE DITCH (SEE DETAIL "1")
SPECIAL LATERAL 'V' DITCH (SEE DETAIL "2")
SPECIAL CUT DITCH (SEE DETAIL "3")
CLASS 'B' RIP RAP 3 TONS 10 SY GEOTEXTILE
CLASS 'B' RIP RAP 2 TONS 7 SY GEOTEXTILE
N 35° 16' 34.0" W
N 35° 10' 17.1" W
N 65° 58' 26.2" E
N 54° 49' 42.9" E
HWY 211
BL-2
DO NOT DISTURB GRAVES
100' SHOULDER TAPER LT&RT
-DRV2- POT Sta. 11+53.95
END CONSTRUCTION -DRV2- POT STA 11+40.00
-DRV2- PT Sta. 11+10.60 BR S 23° 37' 47.9" E AH
-DRV2- PC Sta. 10+30.02 BR S 35° 10' 16.6" E BK
-DRV2- POT STA. 10+00.00= -DRV1- POT STA. 10+89.50
END CONSTRUCTION -DRV1- POT STA. 11+45.00
-DRV1- POT Sta. 11+50.00
BEGIN SHOULD. BERM GUTTER -L- STA. 24+00 (LT.) & (RT.)
REMOVE EXISTING GUARDRAIL
PROP. SHOULDER BERM GUTTER
PROP. GUARDRAIL
MATCH LINE -L- STA 27+00.00 SEE SHEET 5
-DRV2-
PI Sta 10+70.45
Δ = 11° 32' 28.8" (RT)
D = 14° 19' 26.2"
L = 80.57'
T = 40.42'
R = 400.00'
SE = NC
DETAIL "1" SPECIAL LATERAL BASE DITCH (Not to Scale)
Min. D= 1 Ft. LT DITCH: B=3 Ft. RT DITCH: B=4 Ft.
-L- STA. 16+27 TO -L- STA. 18+00 (RT.)
-Y- STA. 12+00 TO -Y- STA. 14+00 (RT.)
DETAIL "2" SPECIAL LATERAL 'V' DITCH (Not to Scale)
Min. D= 1 Ft.
-L- STA. 21+00 TO -L- STA. 24+00 (RT.)
-L- STA. 16+90 TO -L- STA. 22+10 (LT.)
-L- STA. 23+10 TO -L- STA. 24+00 (LT.)
-Y- STA. 12+10 TO -Y- STA. 14+00 (LT.)
DETAIL "3" SPECIAL CUT DITCH (Not to Scale)
Min. D=1 Ft.
-L- STA. 18+00 TO -L- STA. 21+00 (RT.)

NOTES: (1) SEE SHEET 8 FOR -L- PROFILE
(2) SEE SHEET 9 FOR -Y- PROFILE
(3) SEE SHEET 10 FOR -DRV1- PROFILE
(4) SEE SHEET 10 FOR -DRV2- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

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

DETAIL SHOWING PAVEMENT AND BRIDGE RELATIONSHIP

SCALE: 1" = 40'

DETAIL "4"
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

-L- STA. 35+50 TO -L- STA. 40+00 (RT.)

DETAIL "5"
STANDARD BASE DITCH
(Not to Scale)

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

AT -DRV4- STA. 14+44 (LT.)
Length = 16 ft.
Slope = 10.0 %
DDE = 13 CU YD

NOTES: (1) SEE SHEET 8 FOR -L- PROFILE
(2) SEE SHEET 10 FOR -DRV3- PROFILE
(3) SEE SHEET 10 FOR -DRV4- PROFILE

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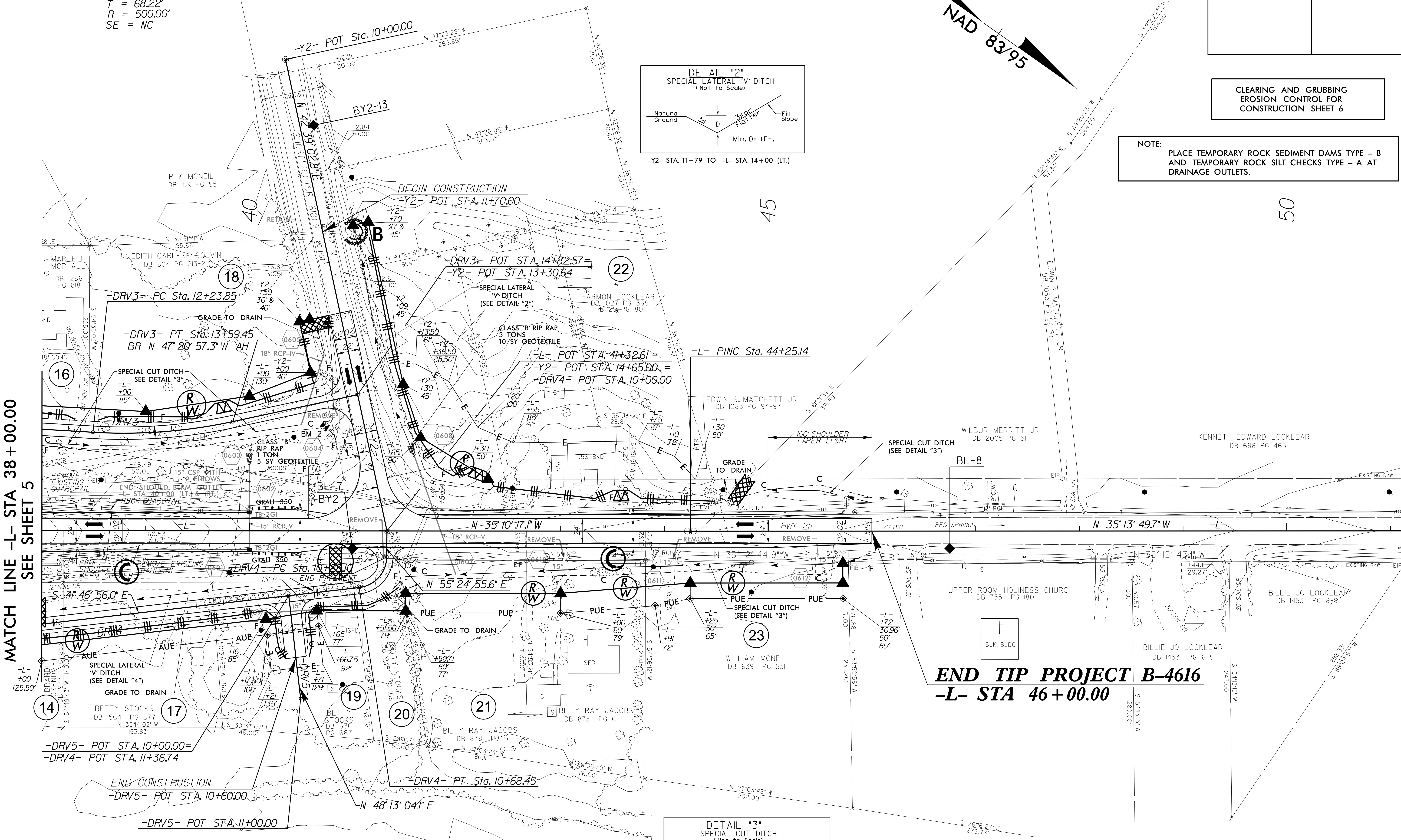
PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-6/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

-DRV3-
PI Sta 12+92.07
Δ = 15° 32' 19.2" (LT)
D = 11° 27' 33.0"
L = 135.60'
T = 68.22'
R = 500.00'
SE = NC



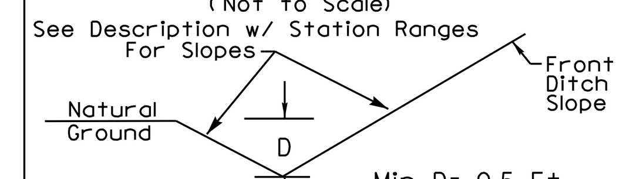
NAD 83/95
-Y2- POT Sta. 10+00.00
BY2-13
BEGIN CONSTRUCTION
-Y2- POT STA. 11+70.00
-DRV3- POT STA. 14+82.57=
-Y2- POT STA. 13+30.64
-DRV3- PC Sta. 12+23.85
-DRV3- PT Sta. 13+59.45
BR N 47° 20' 57.3" W AH
-L- POT STA. 41+32.61 =
-Y2- POT STA. 14+65.00 =
-DRV4- POT STA. 10+00.00
-L- PINC Sta. 44+25.14
MATCH LINE -L- STA 38+00.00
SEE SHEET 5
BL-7
BL-8
N 35° 10' 17.1" W
N 35° 13' 49.7" W
HWY 211
S 41° 46' 56.0" E
N 55° 24' 55.6" E
-DRV4- PC Sta. 10+
END PAVEMENT
P K MCNEIL
DB 15K PG 95
EDITH CARLENE COLVIN
DB 804 PG 213-214
HARMON LOCKLEAR
EDWIN S. MATCHETT JR
DB 1083 PG 94-97
WILBUR MERRITT JR
DB 2005 PG 51
KENNETH EDWARD LOCKLEAR
DB 696 PG 465
UPPER ROOM HOLINESS CHURCH
DB 735 PG 180
BILLIE JO LOCKLEAR
DB 1453 PG 6-9
WILLIAM MCNEIL
DB 639 PG 531
BILLY RAY JACOBS
DB 878 PG 6
BETTY STOCKS
DB 1564 PG 877
SPECIAL LATERAL 'V' DITCH (SEE DETAIL "2")
CLASS 'B' RIP RAP 3 TONS 10 SY GEOTEXTILE
SPECIAL CUT DITCH SEE DETAIL "3"
SPECIAL LATERAL 'V' DITCH (SEE DETAIL "4")
GRADE TO DRAIN
100' SHOULDER TAPER LT & RT
END TIP PROJECT B-4616
-L- STA 46+00.00
-DRV5- POT STA. 10+00.00=
-DRV4- POT STA. 11+36.74
END CONSTRUCTION
-DRV5- POT STA. 10+60.00
-DRV5- POT STA. 11+00.00
-DRV4- PT Sta. 10+68.45
N 48° 13' 04.1" E

DETAIL "2"
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground
3:1
D
3:1 or Flatter
Fill Slope
Min. D= 1 Ft.

-Y2- STA. 11+79 TO -L- STA. 14+00 (LT.)

DETAIL "3"
SPECIAL CUT DITCH
(Not to Scale)
See Description w/ Station Ranges For Slopes



-L- STA. 41+50 TO -L- STA. 46+00 (RT.) w/3:1 BACK SLOPE & 3:1 OR FLATTER FRONT SLOPE
-L- STA. 45+00 TO -L- STA. 46+00 (LT.) w/4:1 BACK SLOPE & 6:1 FRONT SLOPE
-DRV3- STA. 11+75 TO -DRV3- STA. 14+27 (RT.) w/3:1 FRONT & BACK SLOPES

-DRV4-
PI Sta 10+51.55
Δ = 82° 48' 08.5" (RT)
D = 190° 59' 09.4"
L = 43.36'
T = 26.45'
R = 30.00'
SE = NC

NOTES: (1) SEE SHEET 9 FOR -L- PROFILE
(2) SEE SHEET 9 FOR -Y2- PROFILE
(3) SEE SHEET 10 FOR -DRV3- PROFILE
(4) SEE SHEET 10 FOR -DRV4- PROFILE
(5) SEE SHEET 10 FOR -DRV5- PROFILE
(6) SEE SHEET 6-A FOR -Y2 DETOUR- & -DRV4 DETOUR- DESIGN

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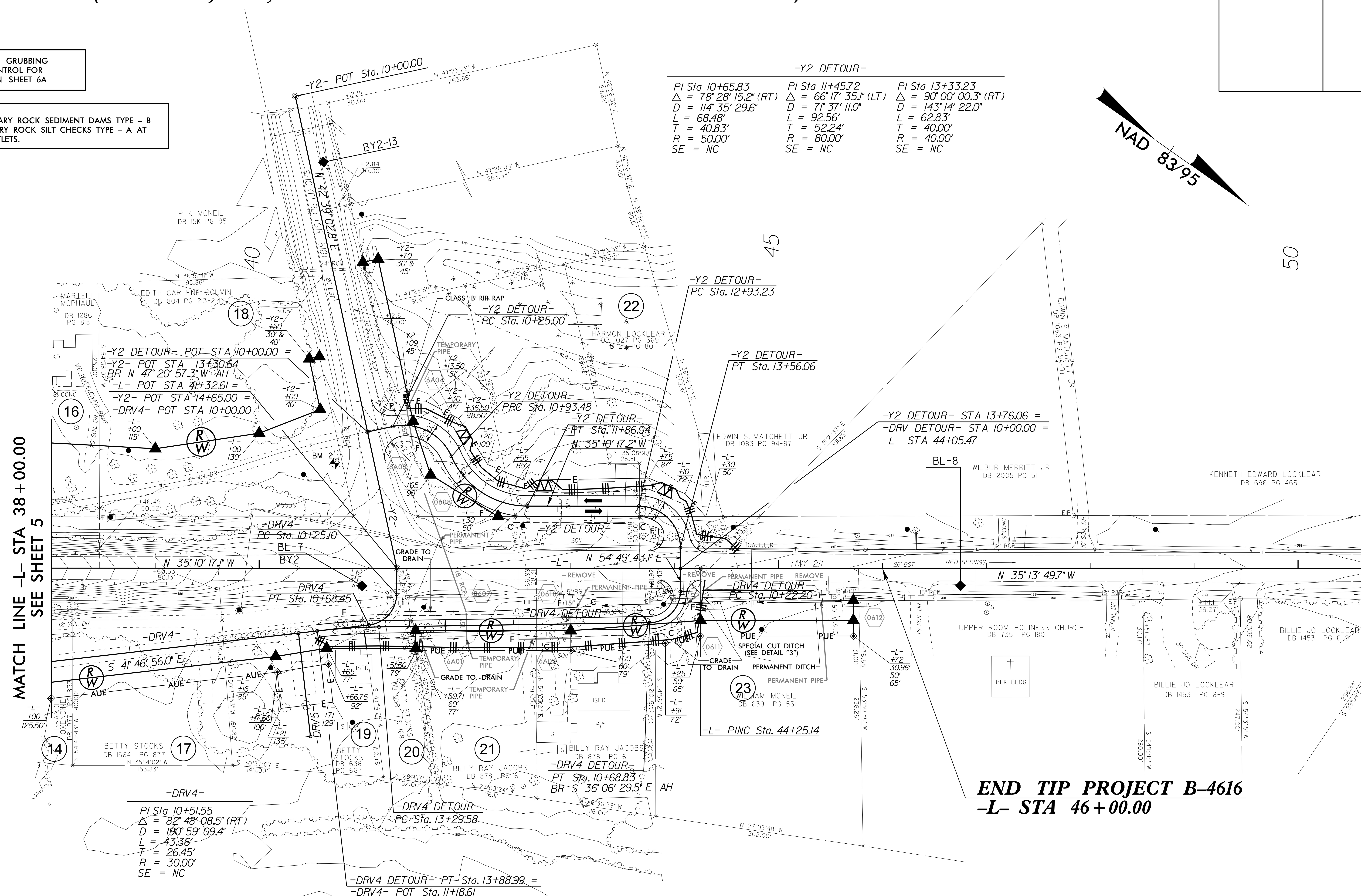
TEMPORARY DETOUR ONLY FOR –DRV4_DETOUR– AND –Y2_DETOUR–

(FOR –L–, –Y2–, –DRV4– AND –DRV5– PLANS SEE SHEET 6)

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-7/CONST.6A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6A

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

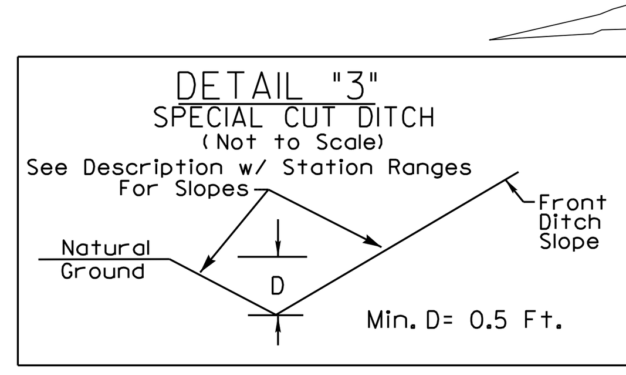


NAD 83/95
-Y2- POT Sta. 10+00.00
BY2-13
N 42° 39' 02.8" E
-Y2 DETOUR-
PC Sta. 12+93.23
-Y2 DETOUR-
PC Sta. 10+25.00
-Y2 DETOUR-
PT Sta. 13+56.06
-Y2 DETOUR-
PRC Sta. 10+93.48
-Y2 DETOUR-
PT Sta. 11+86.04
N 35° 10' 17.2" W
-Y2 DETOUR- POT STA 10+00.00 =
-Y2- POT STA 13+30.64
BR N 47° 20' 57.3" W AH
-L- POT STA 41+32.61 =
-Y2- POT STA 14+65.00 =
-DRV4- POT STA 10+00.00
-Y2 DETOUR- STA 13+76.06 =
-DRV DETOUR- STA 10+00.00 =
-L- STA 44+05.47
BL-8
-DRV4-
PC Sta. 10+25.10
BL-7
BY2
N 35° 10' 17.1" W
N 54° 49' 43.1" E
N 35° 13' 49.7" W
-DRV4-
PT Sta. 10+68.45
-DRV4 DETOUR-
PC Sta. 10+22.20
S 41° 46' 56.0" E
-L- PINC Sta. 44+25.14
-DRV4 DETOUR-
PT Sta. 10+68.83
BR S 36° 06' 29.5" E AH
-DRV4 DETOUR-
PC Sta. 13+29.58
-DRV4 DETOUR- PT Sta. 13+88.99 =
-DRV4- POT Sta. 11+18.61
MATCH LINE -L- STA 38+00.00
SEE SHEET 5
END TIP PROJECT B-4616
-L- STA 46+00.00
P K MCNEIL
DB 15K PG 95
EDITH CARLENE COLVIN
DB 804 PG 213-214
HARMON LOCKLEAR
EDWIN S. MATCHETT JR
DB 1083 PG 94-97
WILBUR MERRITT JR
DB 2005 PG 51
KENNETH EDWARD LOCKLEAR
DB 696 PG 465
UPPER ROOM HOLINESS CHURCH
DB 735 PG 180
BILLIE JO LOCKLEAR
DB 1453 PG 6-9
BETTY STOCKS
DB 1564 PG 877
BILLY RAY JACOBS
DB 878 PG 6
GRADE TO DRAIN
SPECIAL CUT DITCH
(SEE DETAIL "3")
PERMANENT DITCH
PERMANENT PIPE
TEMPORARY PIPE
CLASS 'B' RIP RAP
HWY 211

-Y2 DETOUR-		
PI Sta 10+65.83	PI Sta 11+45.72	PI Sta 13+33.23
Δ = 78° 28' 15.2" (RT)	Δ = 66° 17' 35.1" (LT)	Δ = 90° 00' 00.3" (RT)
D = 114° 35' 29.6"	D = 71° 37' 11.0"	D = 143° 14' 22.0"
L = 68.48'	L = 92.56'	L = 62.83'
T = 40.83'	T = 52.24'	T = 40.00'
R = 50.00'	R = 80.00'	R = 40.00'
SE = NC	SE = NC	SE = NC

-DRV4-
PI Sta 10+51.55
Δ = 82° 48' 08.5" (RT)
D = 190° 59' 09.4"
L = 43.36'
T = 26.45'
R = 30.00'
SE = NC

-DRV4 DETOUR-	
PI Sta 10+51.71	PI Sta 13+59.31
Δ = 89° 03' 47.4" (RT)	Δ = 5° 40' 26.5" (LT)
D = 190° 59' 09.4"	D = 9° 32' 57.5"
L = 46.63'	L = 59.42'
T = 29.51'	T = 29.73'
R = 30.00'	R = 600.00'
SE = NC	SE = NC



-L- STA. 42+00 TO -L- STA. 46+00 (RT.) w/3:1 BACK SLOPE & 3:1 OR FLATTER FRONT SLOPE

NOTES: (1) SEE SHEET 11 FOR -DRV4- DETOUR PROFILE
(2) SEE SHEET 11 FOR -Y2- DETOUR PROFILE
(3) SEE SHEET 6 FOR -L- DESIGN

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PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-8/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

-Y4-
PI Sta 15+98.95
Δ = 27° 01' 44.5" (RT)
D = 57° 17' 44.8"
L = 47.17'
T = 24.03'
R = 100.00'
SE = EXIST.

-Y3-
PI Sta 13+56.76
Δ = 9° 12' 36.7" (RT)
D = 3° 05' 49.4"
L = 297.38'
T = 149.01'
R = 1,850.00'
SE = EXIST.

PI Sta 23+91.33
Δ = 5° 08' 53.2" (RT)
D = 2° 23' 14.4"
L = 215.64'
T = 107.89'
R = 2,400.00'
SE = EXIST.

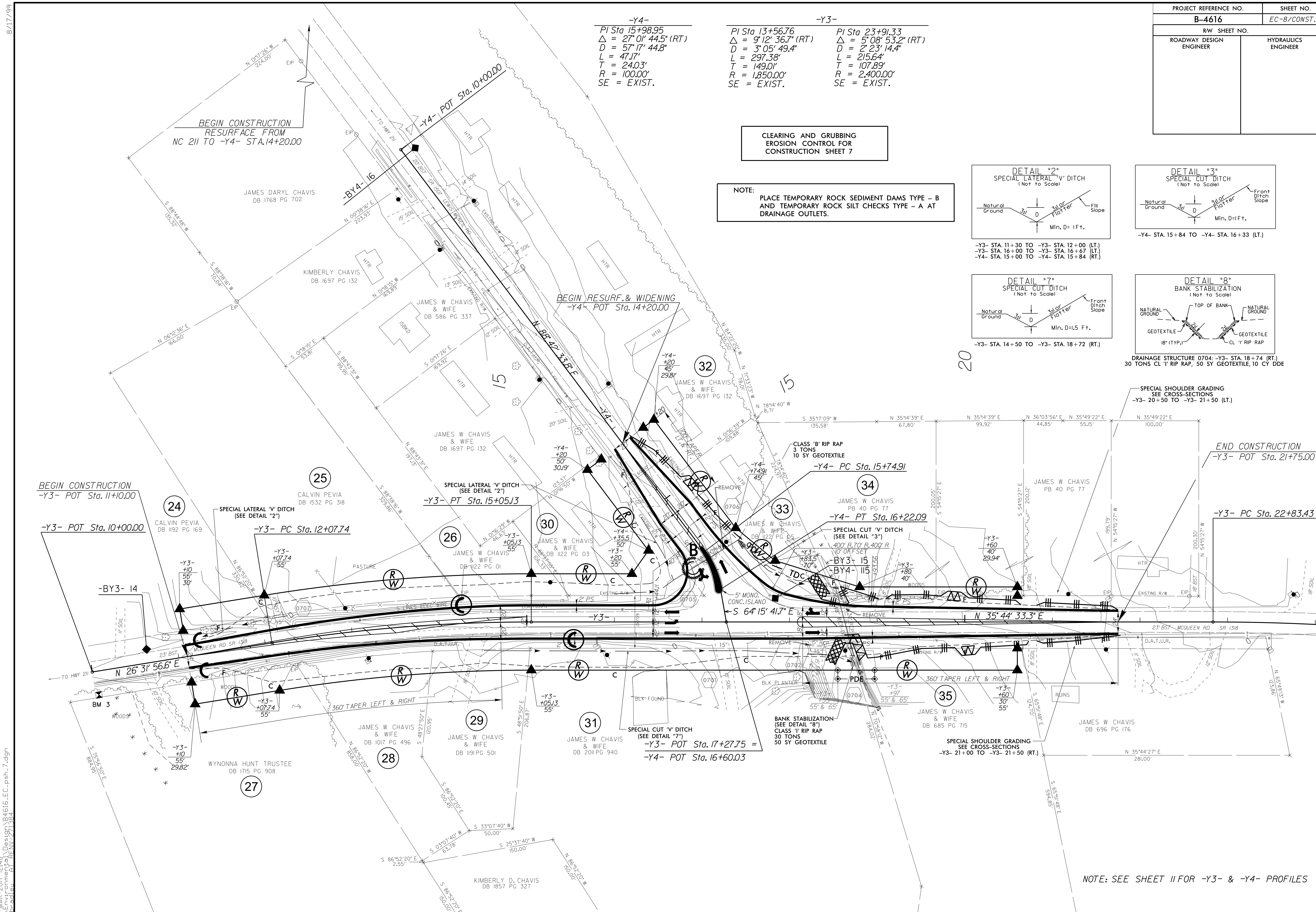
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

-Y3- STA. 11+30 TO -Y3- STA. 12+00 (LT.)
-Y3- STA. 16+00 TO -Y3- STA. 16+67 (LT.)
-Y4- STA. 15+00 TO -Y4- STA. 15+84 (RT.)

-Y4- STA. 15+84 TO -Y4- STA. 16+33 (LT.)

-Y3- STA. 14+50 TO -Y3- STA. 18+72 (RT.)

DRAINAGE STRUCTURE 0704: -Y3- STA. 18+74 (RT.)
30 TONS CL 'I' RIP RAP, 50 SY GEOTEXTILE, 10 CY DDE



NOTE: SEE SHEET 11 FOR -Y3- & -Y4- PROFILES

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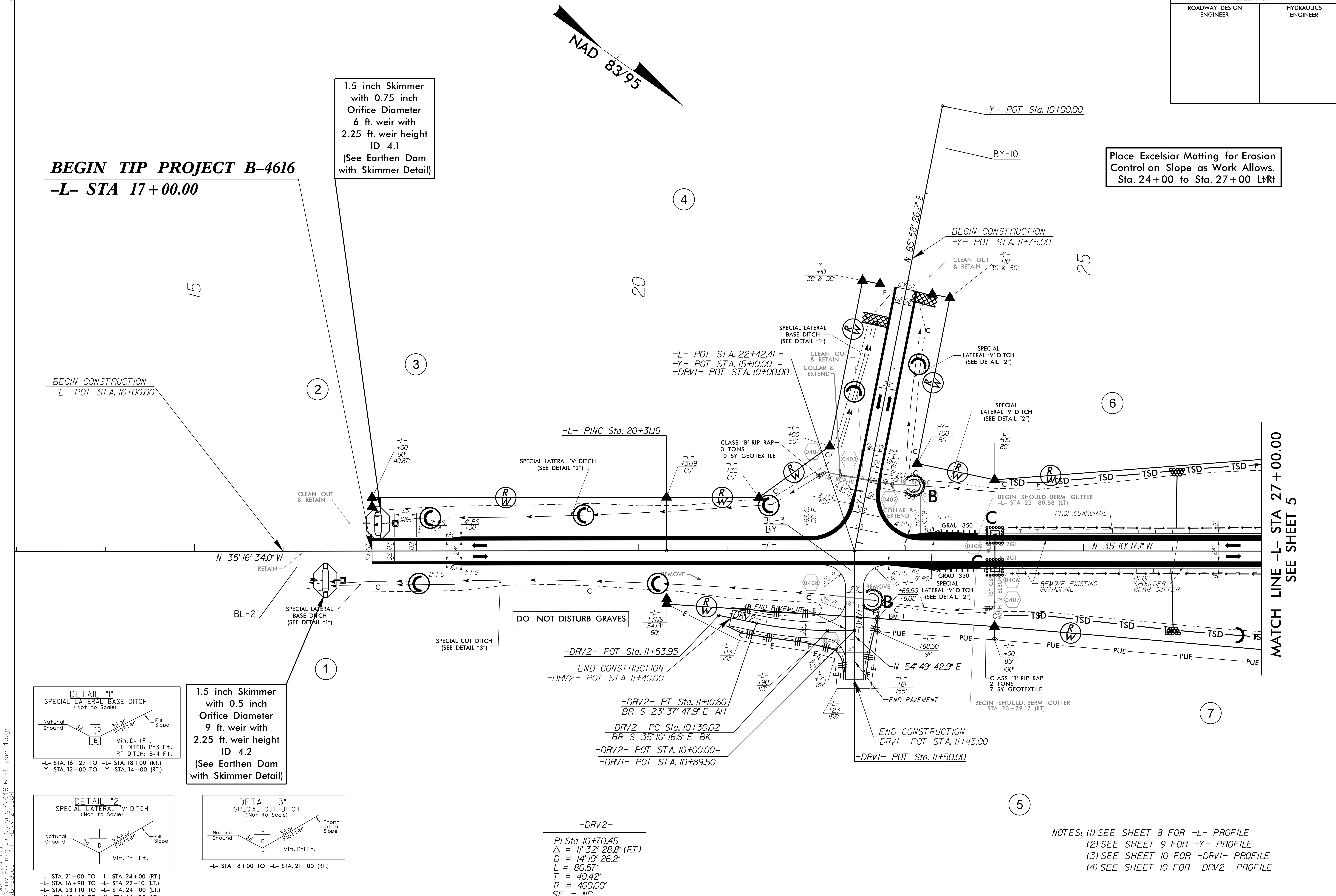
PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-9/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

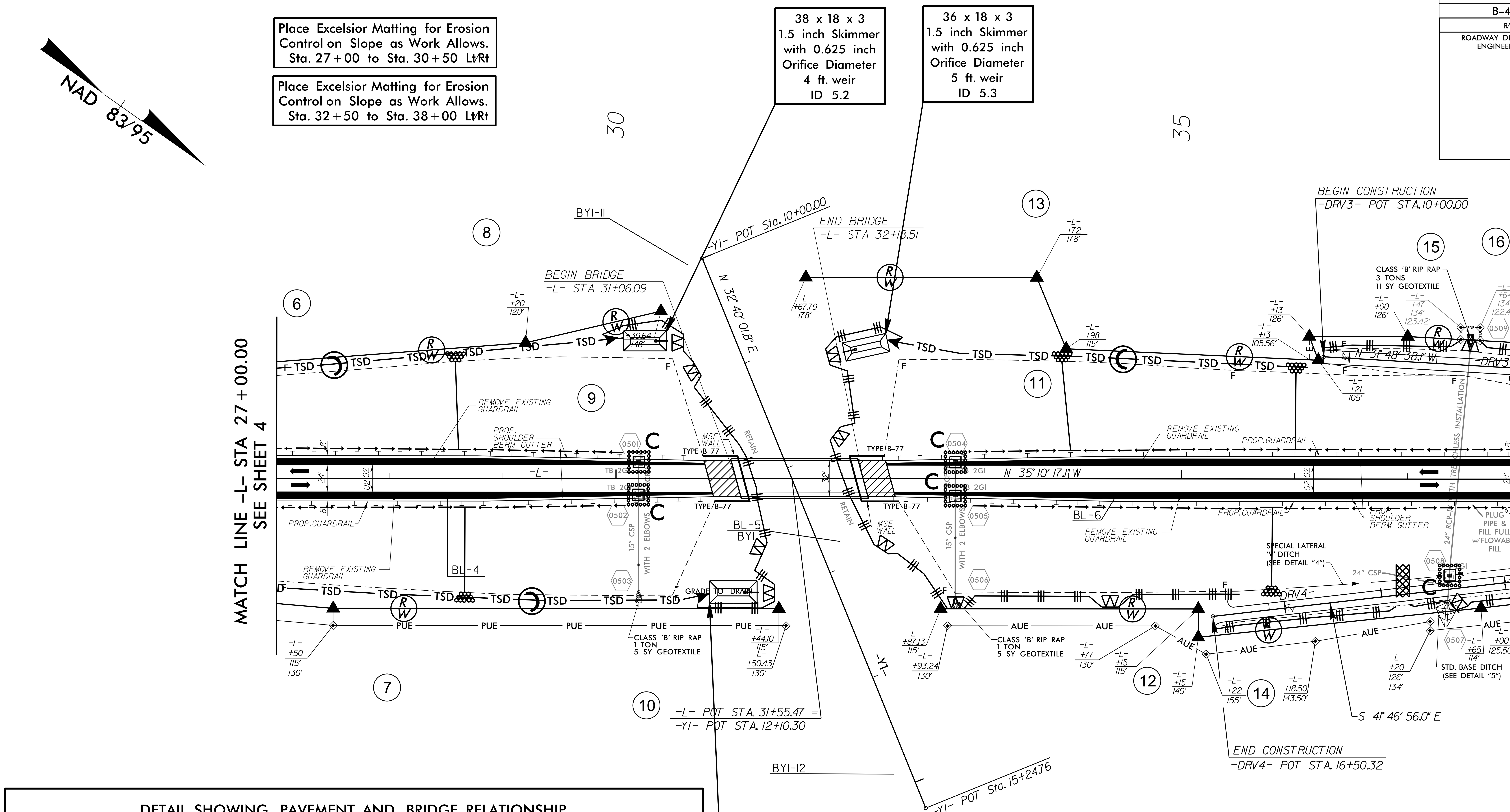

NAD 83/95
BEGIN TIP PROJECT B-4616
-L- STA 17+00.00
1.5 inch Skimmer with 0.75 inch Orifice Diameter 6 ft. weir with 2.25 ft. weir height ID 4.1 (See Earthen Dam with Skimmer Detail)
1.5 inch Skimmer with 0.5 inch Orifice Diameter 9 ft. weir with 2.25 ft. weir height ID 4.2 (See Earthen Dam with Skimmer Detail)
-Y- POT Sta. 10+00.00
BY-10
Place Excelsior Matting for Erosion Control on Slope as Work Allows. Sta. 24+00 to Sta. 27+00 Lt/Rt
BEGIN CONSTRUCTION -Y- POT STA. 11+75.00
N 65° 58' 26.2" E
BEGIN CONSTRUCTION -L- POT STA. 16+00.00
-L- PINC Sta. 20+31.19
-L- POT STA. 22+42.41 = -Y- POT STA. 15+10.00 = -DRV1- POT STA. 10+00.00
N 35° 16' 34.0" W
N 35° 10' 17.1" W
BL-2
BL-3 BY
DO NOT DISTURB GRAVES
SPECIAL LATERAL 'V' DITCH (SEE DETAIL "2")
SPECIAL LATERAL BASE DITCH (SEE DETAIL "1")
SPECIAL CUT DITCH (SEE DETAIL "3")
CLASS 'B' RIP RAP 3 TONS 10 SY GEOTEXTILE
CLASS 'B' RIP RAP 2 TONS 7 SY GEOTEXTILE
CLEAN OUT & RETAIN
COLLAR & EXTEND
BEGIN SHOULD. BERM GUTTER -L- STA 23+80.88 (LT)
BEGIN SHOULD. BERM GUTTER -L- STA 23+79.17 (RT)
REMOVE EXISTING GUARDRAIL
PROP. GUARDRAIL
PROP. SHOULDER BERM GUTTER
-DRV2- POT Sta. 11+53.95
END CONSTRUCTION -DRV2- POT STA 11+40.00
-DRV2- PT Sta. 11+10.60 BR S 23° 37' 47.9" E AH
-DRV2- PC Sta. 10+30.02 BR S 35° 10' 16.6" E BK
-DRV2- POT STA. 10+00.00= -DRV1- POT STA. 10+89.50
N 54° 49' 42.9" E
END PAVEMENT
END CONSTRUCTION -DRV1- POT STA. 11+45.00
-DRV1- POT Sta. 11+50.00
MATCH LINE -L- STA 27+00.00 SEE SHEET 5
DETAIL "1" SPECIAL LATERAL BASE DITCH (Not to Scale)
Natural Ground
Fill Slope
Min. D= 1 Ft. LT DITCH: B=3 Ft. RT DITCH: B=4 Ft.
-L- STA. 16+27 TO -L- STA. 18+00 (RT.)
-Y- STA. 12+00 TO -Y- STA. 14+00 (RT.)
DETAIL "2" SPECIAL LATERAL 'V' DITCH (Not to Scale)
Min. D= 1 Ft.
-L- STA. 21+00 TO -L- STA. 24+00 (RT.)
-L- STA. 16+90 TO -L- STA. 22+10 (LT.)
-L- STA. 23+10 TO -L- STA. 24+00 (LT.)
-Y- STA. 12+10 TO -Y- STA. 14+00 (LT.)
DETAIL "3" SPECIAL CUT DITCH (Not to Scale)
Front Ditch Slope
Min. D=1 Ft.
-L- STA. 18+00 TO -L- STA. 21+00 (RT.)

-DRV2-

PI Sta 10+70.45
Δ = 11° 32' 28.8" (RT)
D = 14° 19' 26.2"
L = 80.57'
T = 40.42'
R = 400.00'
SE = NC

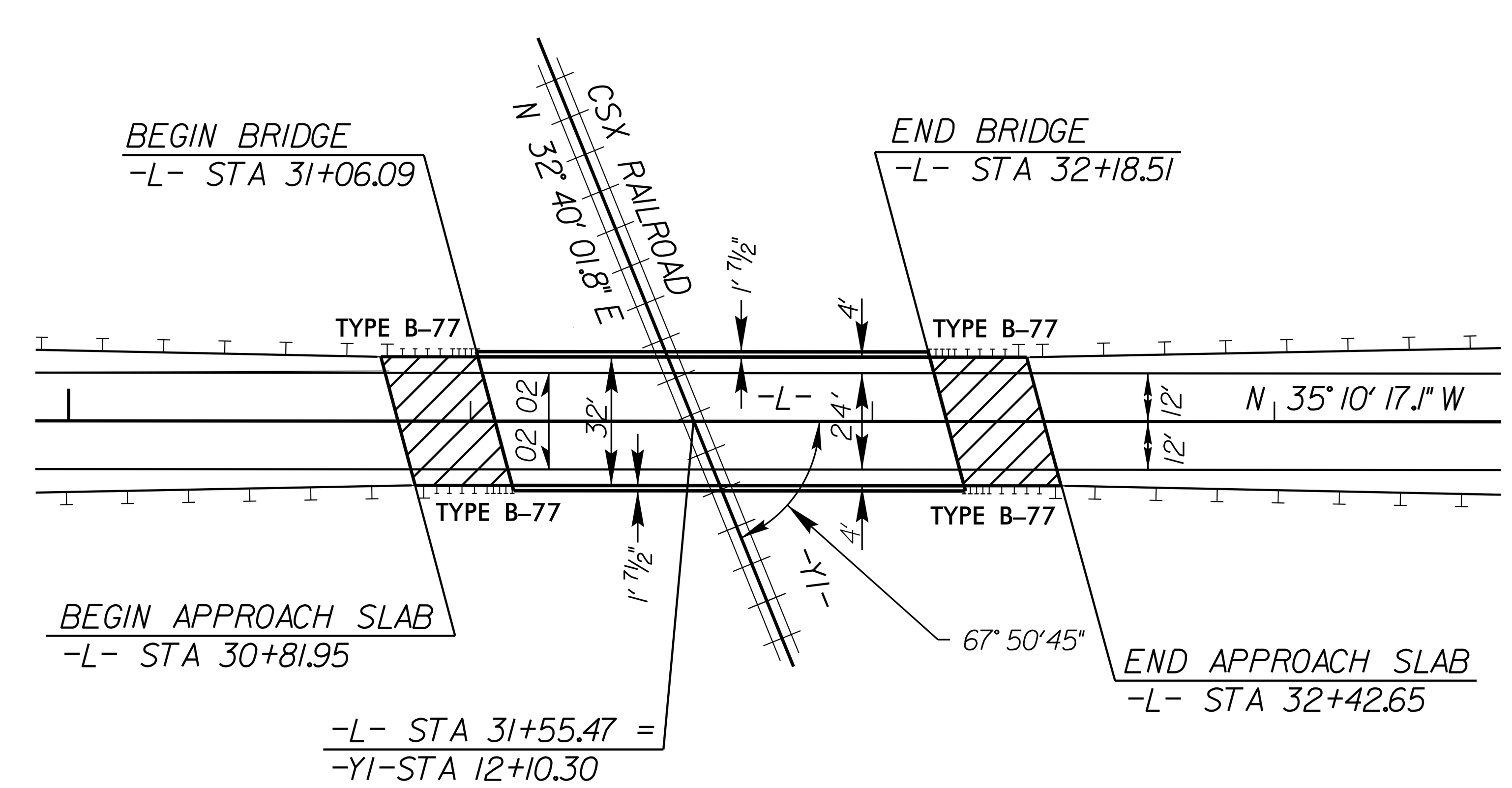
NOTES: (1) SEE SHEET 8 FOR -L- PROFILE
(2) SEE SHEET 9 FOR -Y- PROFILE
(3) SEE SHEET 10 FOR -DRV1- PROFILE
(4) SEE SHEET 10 FOR -DRV2- PROFILE

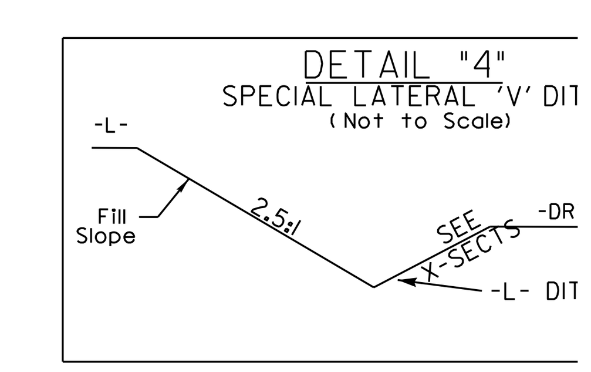
PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-10/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

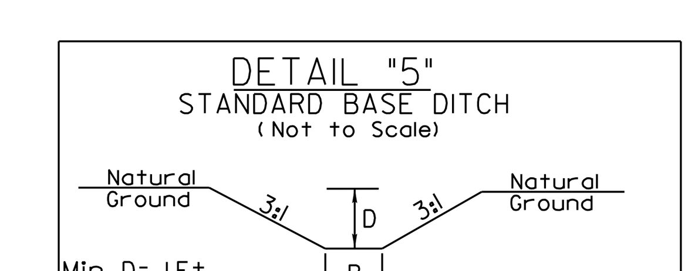


DETAIL SHOWING PAVEMENT AND BRIDGE RELATIONSHIP

SCALE: 1" = 40'







AT -DRV4- STA. 14+44 (LT.)
Length = 16 ft.
Slope = 10.0 %
DDE = 13 CU YD

NOTES: (1) SEE SHEET 8 FOR -L- PROFILE
(2) SEE SHEET 10 FOR -DRV3- PROFILE
(3) SEE SHEET 10 FOR -DRV4- PROFILE

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PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-11/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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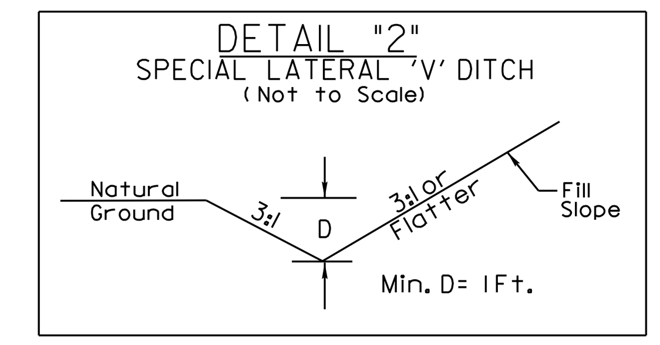
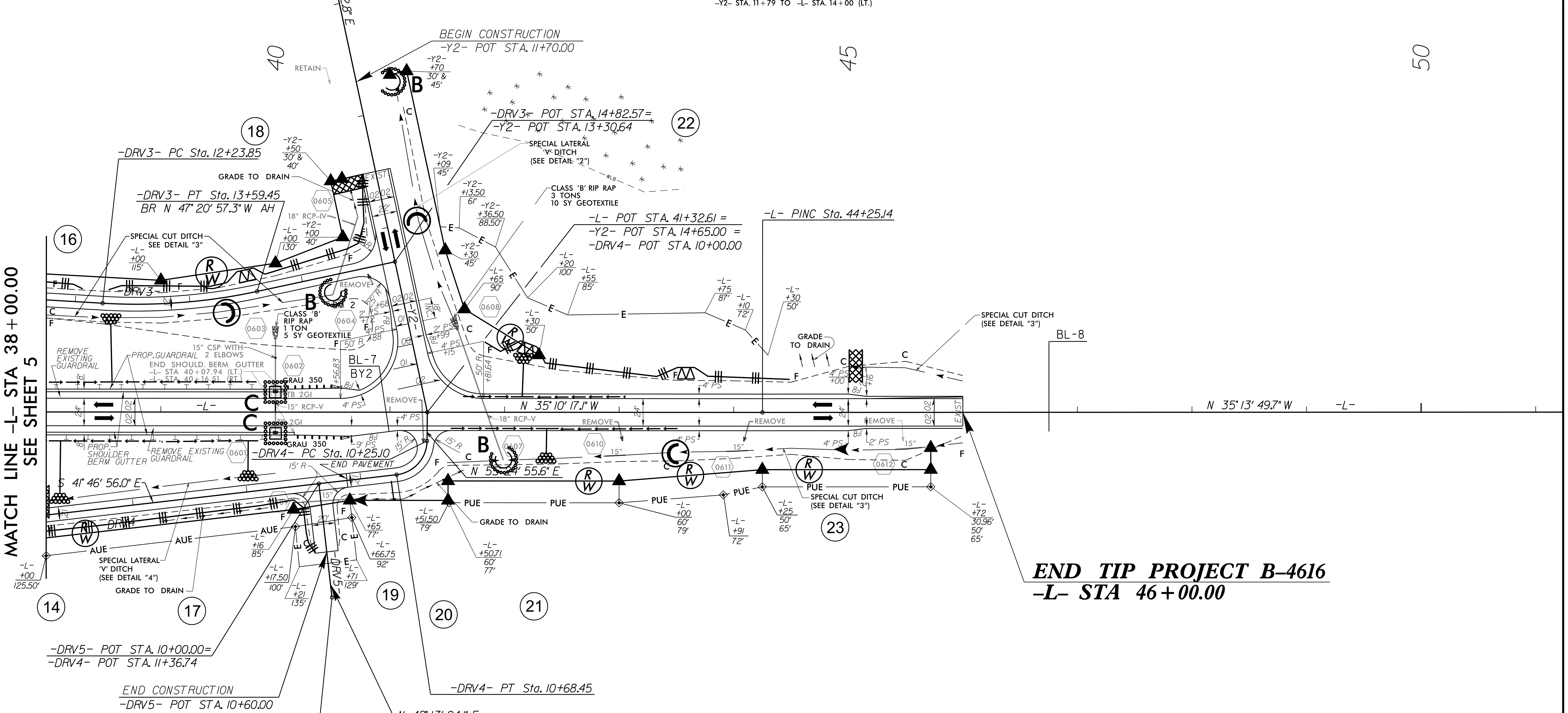
-DRV3-

PI Sta 12+92.07
Δ = 15° 32' 19.2" (LT)
D = 11° 27' 33.0"
L = 135.60'
T = 68.22'
R = 500.00'
SE = NC

Place Excelsior Matting for Erosion Control on Slope as Work Allows. Sta. 38+00 to Sta. 41+00 Lt/Rt

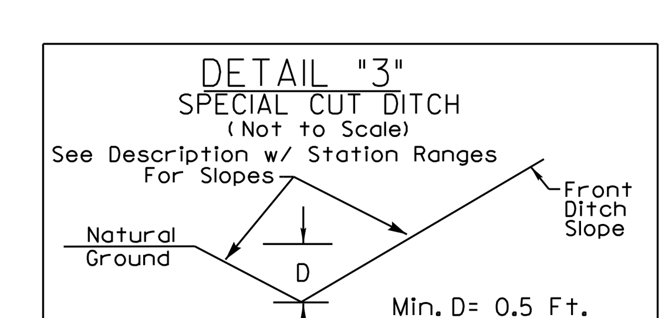


-Y2- STA. 11+79 TO -L- STA. 14+00 (LT.)



-DRV4-

PI Sta 10+51.55
Δ = 82° 48' 08.5" (RT)
D = 190° 59' 09.4"
L = 43.36'
T = 26.45'
R = 30.00'
SE = NC



-L- STA. 41+50 TO -L- STA. 46+00 (RT.) w/3:1 BACK SLOPE & 3:1 OR FLATTER FRONT SLOPE
-L- STA. 45+00 TO -L- STA. 46+00 (LT.) w/4:1 BACK SLOPE & 6:1 FRONT SLOPE
-DRV3- STA. 11+75 TO -DRV3- STA. 14+27 (RT.) w/3:1 FRONT & BACK SLOPES

NOTES: (1) SEE SHEET 9 FOR -L- PROFILE
(2) SEE SHEET 9 FOR -Y2- PROFILE
(3) SEE SHEET 10 FOR -DRV3- PROFILE
(4) SEE SHEET 10 FOR -DRV4- PROFILE
(5) SEE SHEET 10 FOR -DRV5- PROFILE
(6) SEE SHEET 6-A FOR -Y2 DETOUR- & -DRV4 DETOUR- DESIGN

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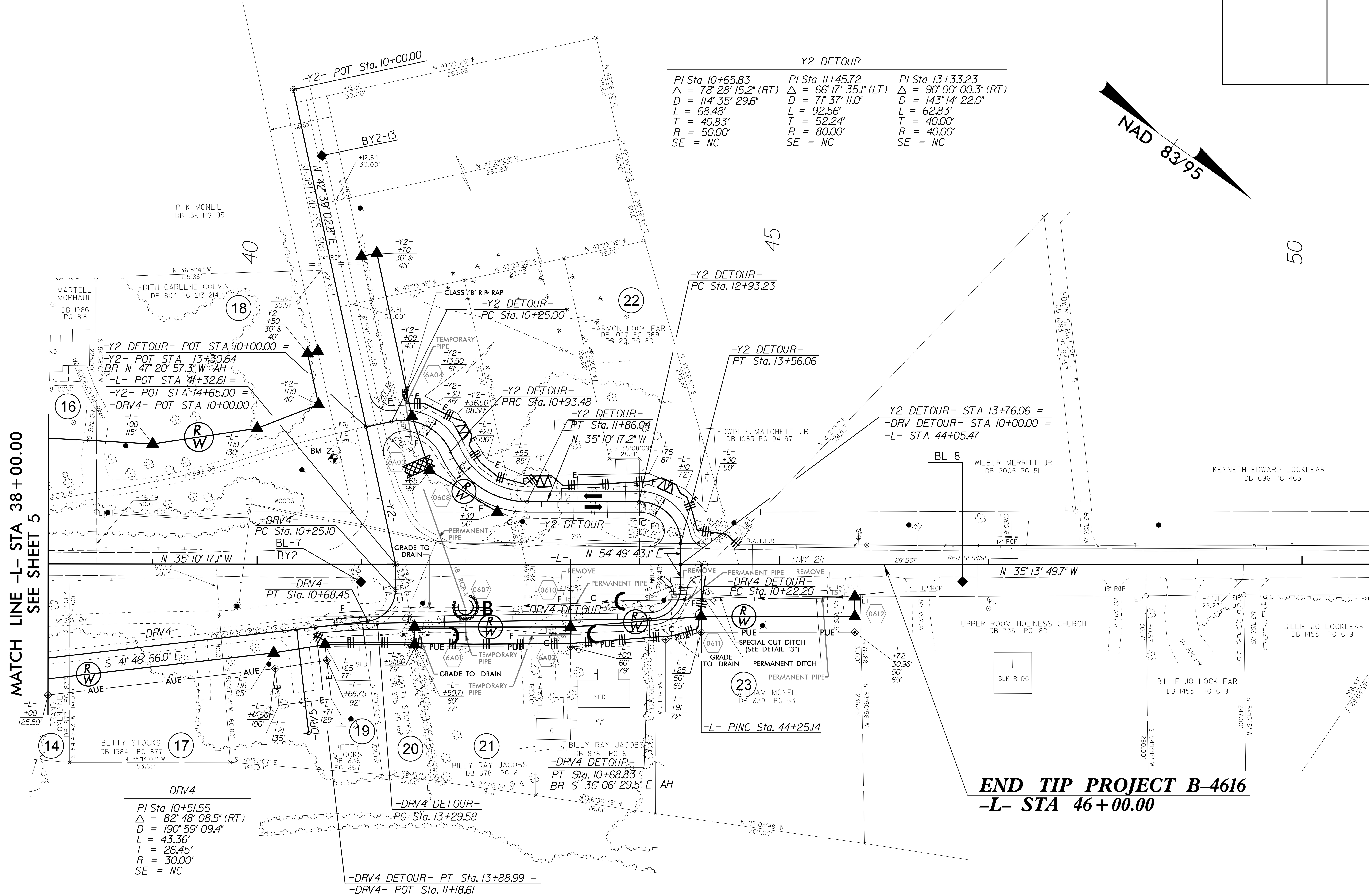
TEMPORARY DETOUR ONLY FOR –DRV4_DETOUR– AND –Y2_DETOUR–

(FOR –L–, –Y2–, –DRV4– AND –DRV5– PLANS SEE SHEET 6)

PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-12/CONST.6A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NAD 83/95
MATCH LINE –L– STA 38+00.00
SEE SHEET 5
–Y2– POT Sta. 10+00.00
BY2-13
SHORT RD (SR 1618)
P K MCNEIL
DB 15K PG 95
EDITH CARLENE COLVIN
DB 804 PG 213-214
MARTELL MCPHAUL
DB 1286 PG 818
-Y2 DETOUR- POT STA 10+00.00 =
-Y2- POT STA 13+30.64
BR N 47° 20' 57.3" W AH
-L- POT STA 41+32.61 =
-Y2- POT STA 14+65.00 =
-DRV4- POT STA 10+00.00
-Y2 DETOUR-
PC Sta. 10+25.00
-Y2 DETOUR-
PRC Sta. 10+93.48
-Y2 DETOUR-
PT Sta. 11+86.04
N 35° 10' 17.2" W
-Y2 DETOUR-
PC Sta. 12+93.23
-Y2 DETOUR-
PT Sta. 13+56.06
-Y2 DETOUR- STA 13+76.06 =
-DRV DETOUR- STA 10+00.00 =
-L- STA 44+05.47
HARMON LOCKLEAR
DB 1027 PG 369
EDWIN S. MATCHETT JR
DB 1083 PG 94-97
WILBUR MERRITT JR
DB 2005 PG 51
KENNETH EDWARD LOCKLEAR
DB 696 PG 465
BL-8
-DRV4-
PC Sta. 10+25.10
BL-7
BY2
N 35° 10' 17.1" W
N 54° 49' 43.1" E
HWY 211
N 35° 13' 49.7" W
-DRV4-
PT Sta. 10+68.45
-DRV4 DETOUR-
PC Sta. 10+22.20
S 41° 46' 56.0" E
UPPER ROOM HOLINESS CHURCH
DB 735 PG 180
BILLIE JO LOCKLEAR
DB 1453 PG 6-9
WILLIAM MCNEIL
DB 639 PG 531
-L- PINC Sta. 44+25.14
SPECIAL CUT DITCH (SEE DETAIL "3")
BETTY STOCKS
DB 1564 PG 877
BILLY RAY JACOBS
DB 878 PG 6
-DRV4 DETOUR-
PT Sta. 10+68.83
BR S 36° 06' 29.5" E AH
-DRV4 DETOUR-
PC Sta. 13+29.58
-DRV4 DETOUR- PT Sta. 13+88.99 =
-DRV4- POT Sta. 11+18.61
END TIP PROJECT B-4616
-L- STA 46+00.00

-Y2 DETOUR-

PI Sta 10+65.83	PI Sta 11+45.72	PI Sta 13+33.23
Δ = 78° 28' 15.2" (RT)	Δ = 66° 17' 35.1" (LT)	Δ = 90° 00' 00.3" (RT)
D = 114° 35' 29.6"	D = 71° 37' 11.0"	D = 143° 14' 22.0"
L = 68.48'	L = 92.56'	L = 62.83'
T = 40.83'	T = 52.24'	T = 40.00'
R = 50.00'	R = 80.00'	R = 40.00'
SE = NC	SE = NC	SE = NC

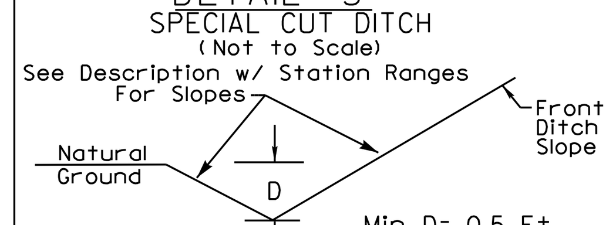
-DRV4-

PI Sta 10+51.55
Δ = 82° 48' 08.5" (RT)
D = 190° 59' 09.4"
L = 43.36'
T = 26.45'
R = 30.00'
SE = NC

-DRV4 DETOUR-

PI Sta 10+51.71	PI Sta 13+59.31
Δ = 89° 03' 47.4" (RT)	Δ = 5° 40' 26.5" (LT)
D = 190° 59' 09.4"	D = 9° 32' 57.5"
L = 46.63'	L = 59.42'
T = 29.51'	T = 29.73'
R = 30.00'	R = 600.00'
SE = NC	SE = NC

DETAIL "3"
SPECIAL CUT DITCH
(Not to Scale)



–L– STA. 42+00 TO –L– STA. 46+00 (RT.) w/3:1 BACK SLOPE & 3:1 OR FLATTER FRONT SLOPE

NOTES: (1) SEE SHEET 11 FOR -DRV4- DETOUR PROFILE
(2) SEE SHEET 11 FOR -Y2- DETOUR PROFILE
(3) SEE SHEET 6 FOR -L- DESIGN

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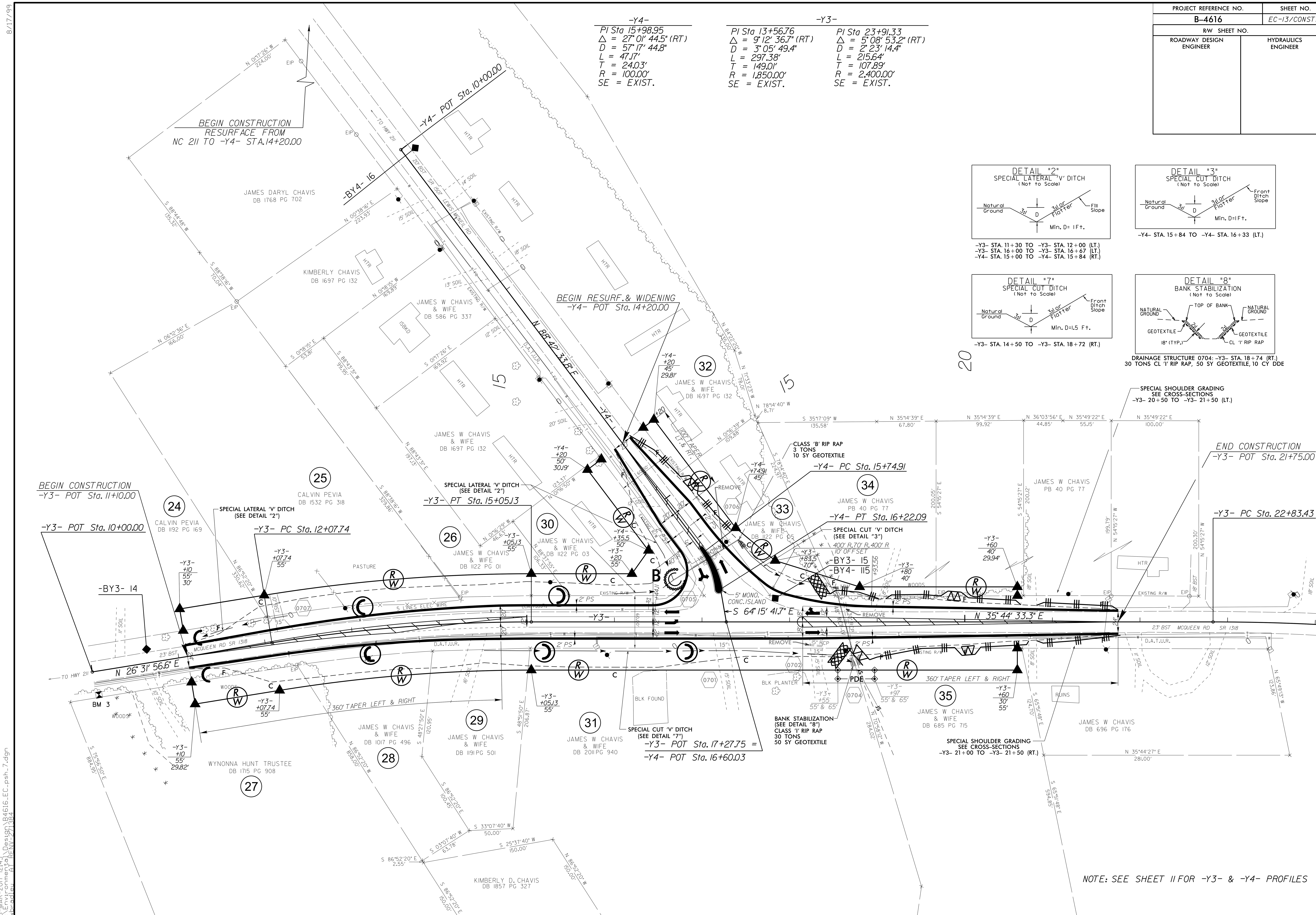
PROJECT REFERENCE NO.	SHEET NO.
B-4616	EC-13/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y4-
PI Sta 15+98.95
Δ = 27° 01' 44.5" (RT)
D = 57° 17' 44.8"
L = 47.17'
T = 24.03'
R = 100.00'
SE = EXIST.

-Y3-
PI Sta 13+56.76
Δ = 9° 12' 36.7" (RT)
D = 3° 05' 49.4"
L = 297.38'
T = 149.01'
R = 1,850.00'
SE = EXIST.

PI Sta 23+91.33
Δ = 5° 08' 53.2" (RT)
D = 2° 23' 14.4"
L = 215.64'
T = 107.89'
R = 2,400.00'
SE = EXIST.



DETAIL "2"
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground
Fill Slope
3d or Flatter
Min. D= 1 Ft.
-Y3- STA. 11+30 TO -Y3- STA. 12+00 (LT.)
-Y3- STA. 16+00 TO -Y3- STA. 16+67 (LT.)
-Y4- STA. 15+00 TO -Y4- STA. 15+84 (RT.)
DETAIL "3"
SPECIAL CUT DITCH
(Not to Scale)
Front Ditch Slope
Min. D=1 Ft.
-Y4- STA. 15+84 TO -Y4- STA. 16+33 (LT.)
DETAIL "7"
SPECIAL CUT DITCH
(Not to Scale)
Min. D=1.5 Ft.
-Y3- STA. 14+50 TO -Y3- STA. 18+72 (RT.)
DETAIL "8"
BANK STABILIZATION
(Not to Scale)
NATURAL GROUND
TOP OF BANK
GEOTEXTILE
18" (TYP.)
CL 'I' RIP RAP
DRAINAGE STRUCTURE 0704: -Y3- STA. 18+74 (RT.)
30 TONS CL 'I' RIP RAP, 50 SY GEOTEXTILE, 10 CY DDE
BEGIN CONSTRUCTION
RESURFACE FROM
NC 211 TO -Y4- STA.14+20.00
-Y4- POT Sta. 10+00.00
-BY4- 16
JAMES DARYL CHAVIS
DB 1768 PG 702
KIMBERLY CHAVIS
DB 1697 PG 132
JAMES W CHAVIS & WIFE
DB 586 PG 337
BEGIN RESURF.& WIDENING
-Y4- POT Sta. 14+20.00
N 88° 42' 33.8" E
JAMES W CHAVIS & WIFE
DB 1697 PG 132
SPECIAL SHOULDER GRADING
SEE CROSS-SECTIONS
-Y3- 20+50 TO -Y3- 21+50 (LT.)
END CONSTRUCTION
-Y3- POT Sta. 21+75.00
CLASS 'B' RIP RAP
3 TONS
10 SY GEOTEXTILE
-Y4- PC Sta. 15+74.91
BEGIN CONSTRUCTION
-Y3- POT Sta. 11+10.00
-Y3- POT Sta. 10+00.00
SPECIAL LATERAL 'V' DITCH
(SEE DETAIL "2")
-Y3- PC Sta. 12+07.74
-Y3- PT Sta. 15+05.13
CALVIN PEVIA
DB 1532 PG 318
CALVIN PEVIA
DB 1192 PG 169
JAMES W CHAVIS & WIFE
DB 1122 PG 01
JAMES W CHAVIS & WIFE
DB 1122 PG 03
JAMES W CHAVIS & WIFE
DB 1122 PG 05
JAMES W CHAVIS
PB 40 PG 77
-Y4- PT Sta. 16+22.09
SPECIAL CUT 'V' DITCH
(SEE DETAIL "3")
-BY3- 15
-BY4- 115
-Y3- PC Sta. 22+83.43
-BY3- 14
N 26° 31' 56.6" E
S 64° 15' 41.7" E
N 35° 44' 33.3" E
5" MONO. CONC. ISLAND
MCQUEEN RD SR 1318
360' TAPER LEFT & RIGHT
BM 3
WYNONNA HUNT TRUSTEE
DB 1715 PG 908
JAMES W CHAVIS & WIFE
DB 1017 PG 496
JAMES W CHAVIS & WIFE
DB 1191 PG 501
JAMES W CHAVIS & WIFE
DB 2011 PG 940
SPECIAL CUT 'V' DITCH
(SEE DETAIL "7")
-Y3- POT Sta. 17+27.75 =
-Y4- POT Sta. 16+60.03
BANK STABILIZATION
(SEE DETAIL "8")
CLASS 'I' RIP RAP
30 TONS
50 SY GEOTEXTILE
JAMES W CHAVIS & WIFE
DB 685 PG 715
SPECIAL SHOULDER GRADING
SEE CROSS-SECTIONS
-Y3- 21+00 TO -Y3- 21+50 (RT.)
JAMES W CHAVIS
DB 696 PG 176
KIMBERLY D. CHAVIS
DB 1857 PG 327

NOTE: SEE SHEET 11 FOR -Y3- & -Y4- PROFILES

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