

TIP PROJECT: Y-4810K

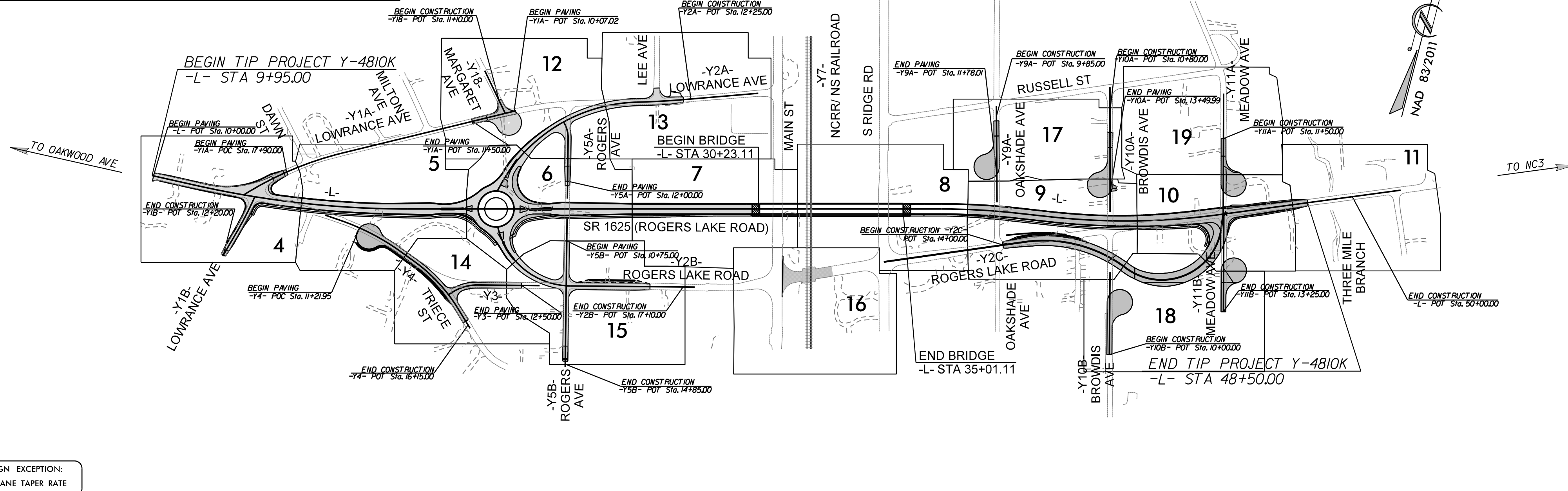
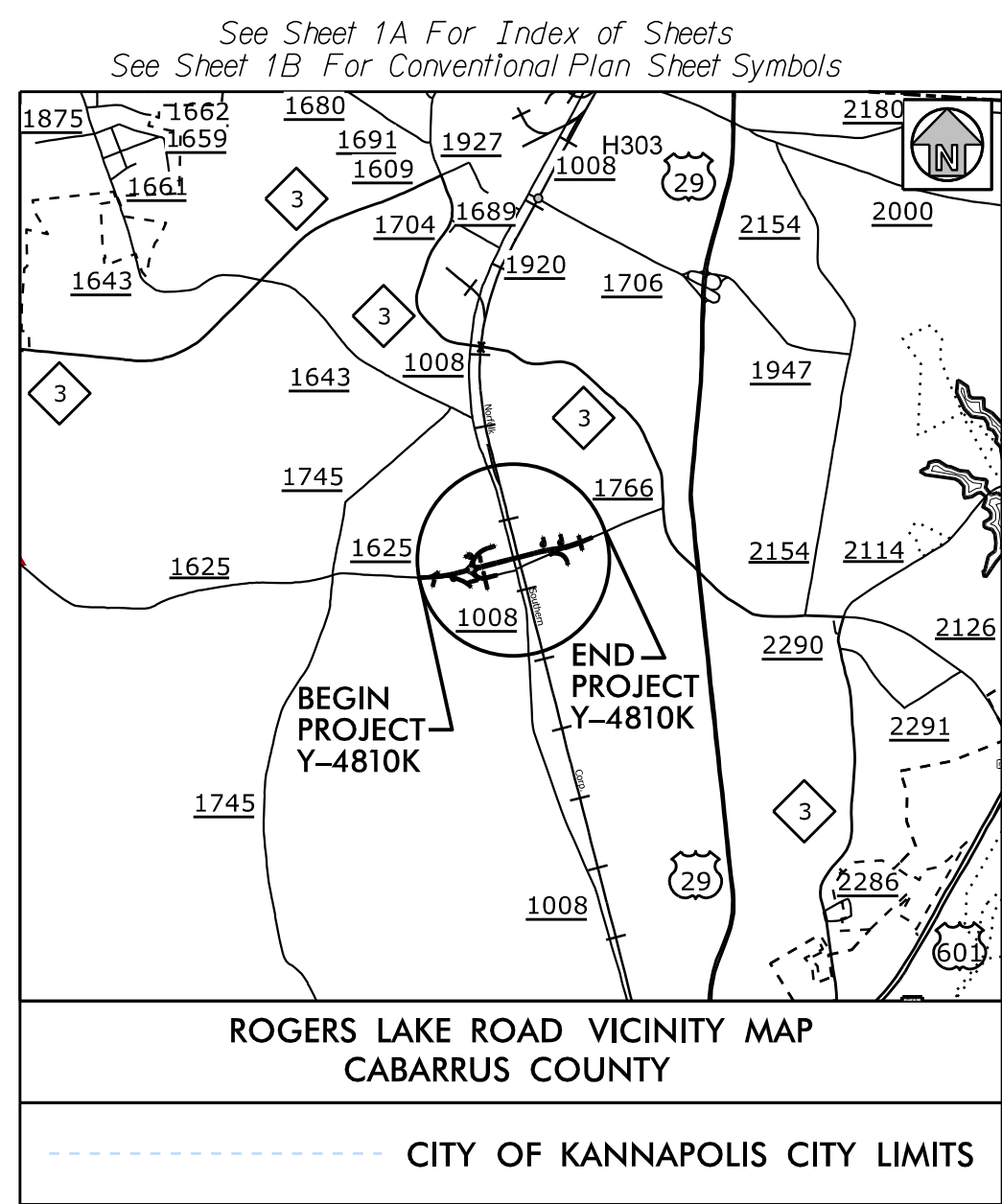
STATE OF NORTH CAROLINA
RAIL DIVISION

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CABARRUS COUNTY

**LOCATION: SR 1625 (ROGERS LAKE RD) GRADE SEPARATION OVER
NCRRNS RAILROAD (CROSSING #724408Y) NEAR
MILEPOST MP 350.73**

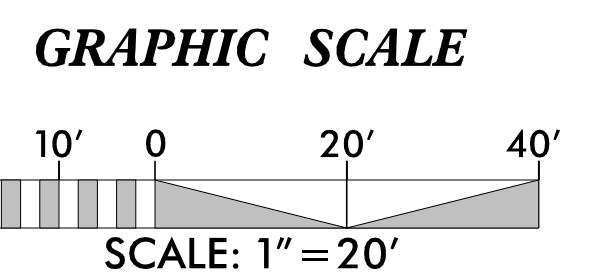
**TYPE OF WORK: GRADING, PAVING, DRAINAGE, STRUCTURE, AND
TRAFFIC SIGNAL**



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle/Coir Fiber Wattle	W/CFF
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	W/CFF-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

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



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Prepared in the Office of:
SUNGATE DESIGN GROUP, P.A.

905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243
ENG FIRM LICENSE NO. C-890

Designed by:
MATTHEW C. EDWARDS, PE 3992

NAME LEVEL III CERTIFICATION NO.

Reviewed in the Office of:
ROADSIDE ENVIRONMENTAL UNIT

1 South Wilmington St.
Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

Reviewed by:
WES CHANDLER, PE

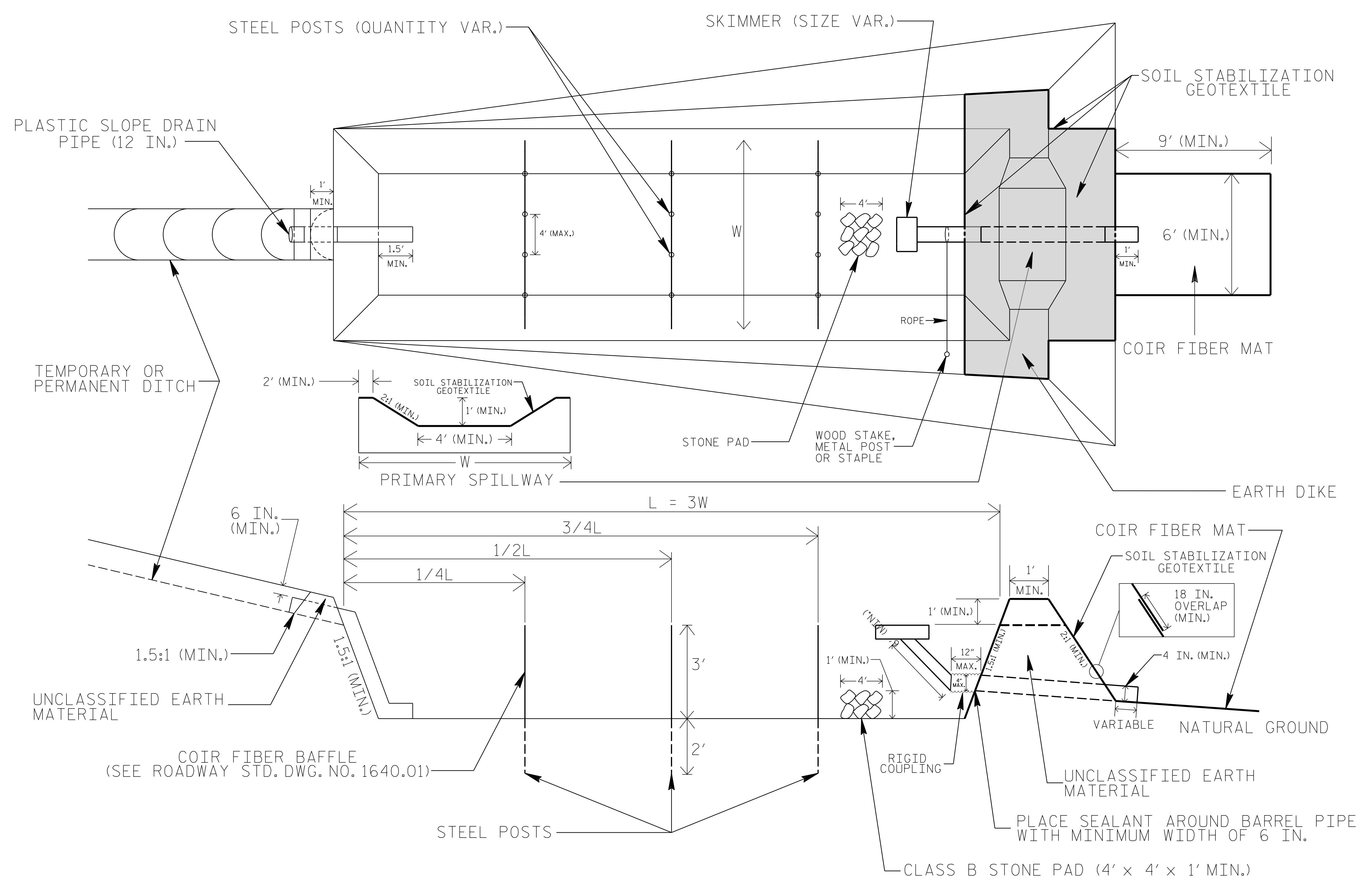
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

PROJECT REFERENCE NO. Y-4810K	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



NOTES

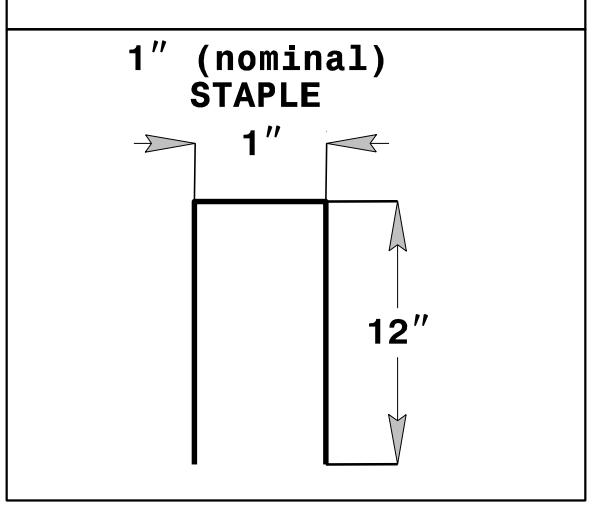
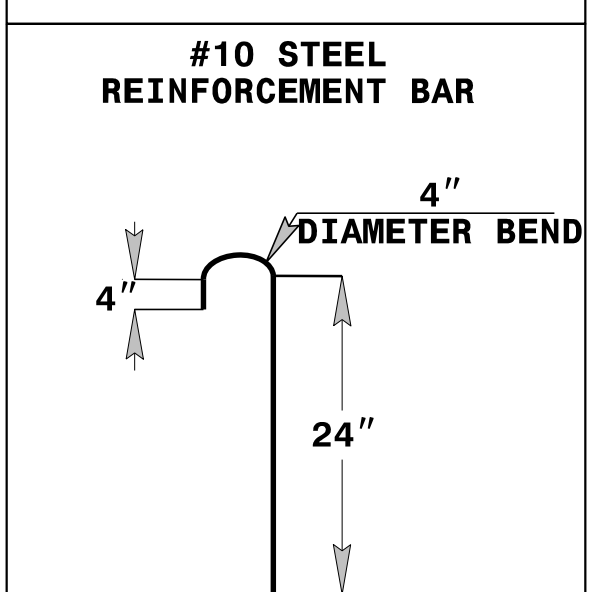
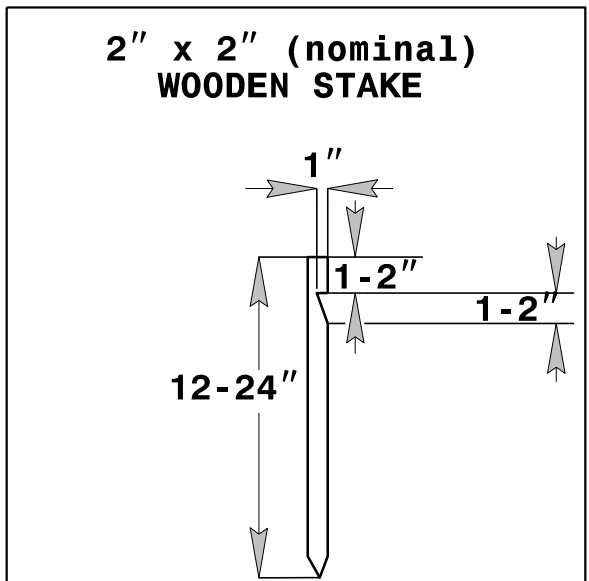
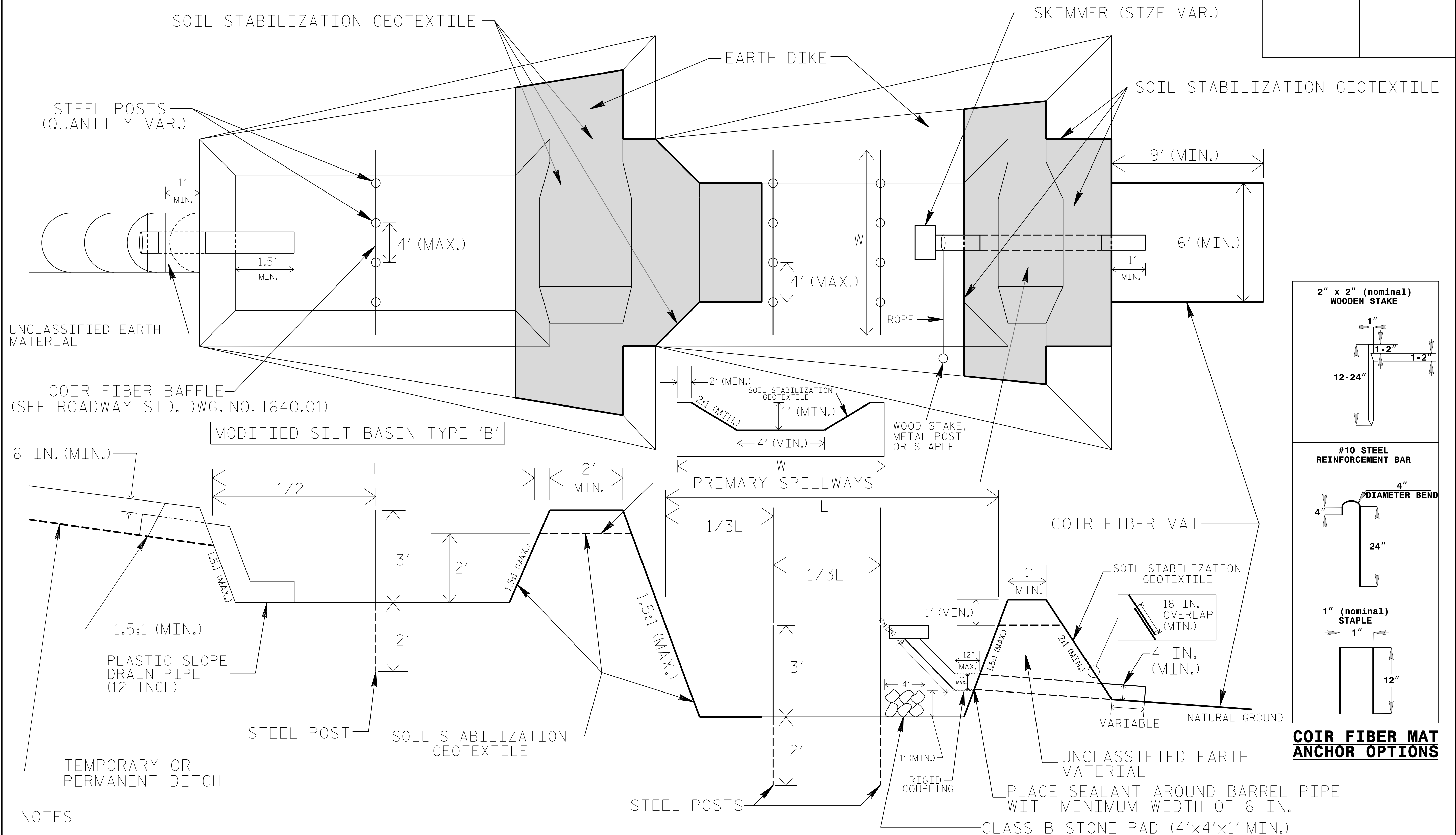
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

COIR FIBER MAT ANCHOR OPTIONS

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. Y-4810K	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

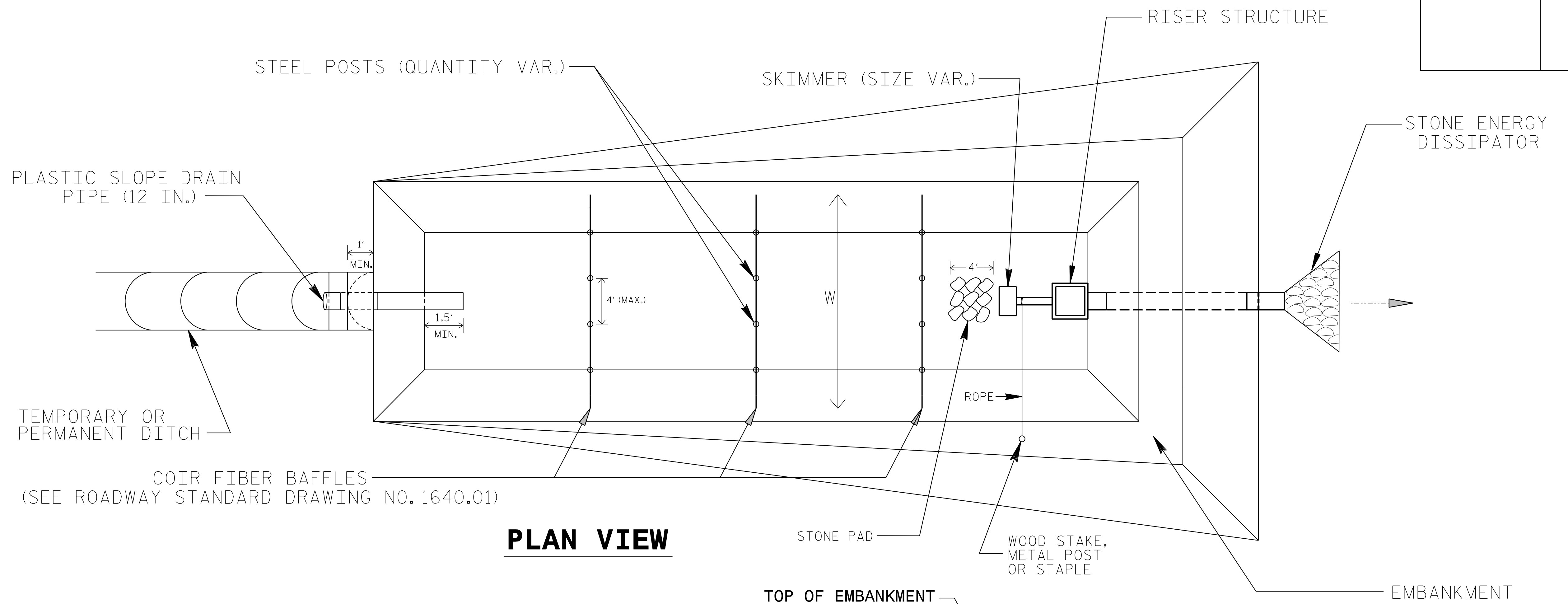
NOTES

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. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

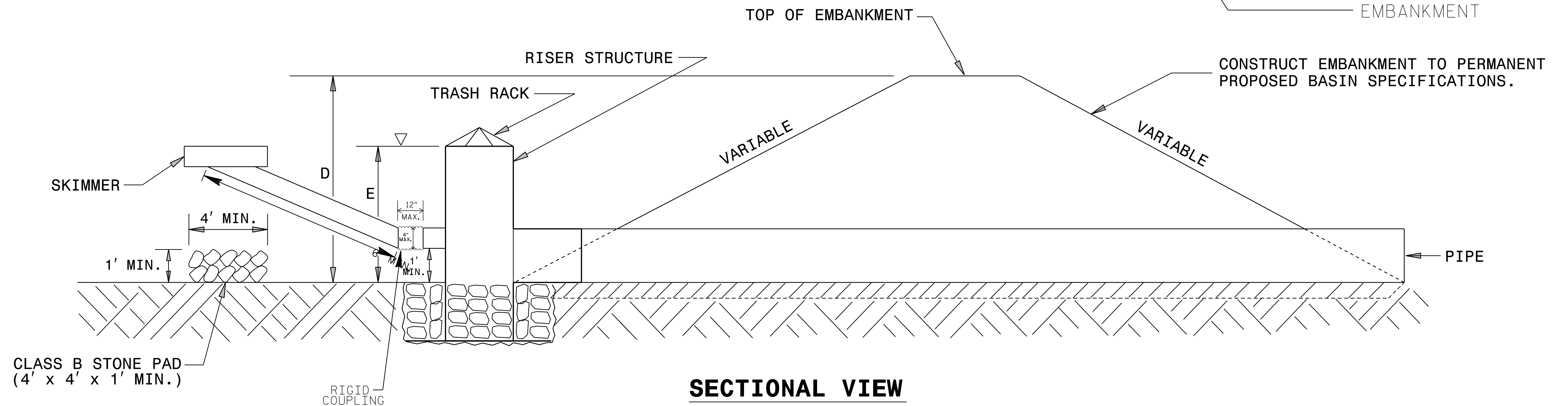
NOT TO SCALE

PROJECT REFERENCE NO. Y-4810K	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STORMWATER BASIN WITH SKIMMER



PLAN VIEW



SECTIONAL VIEW

NOTES

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

NOT TO SCALE

PROJECT REFERENCE NO. Y-4810K	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

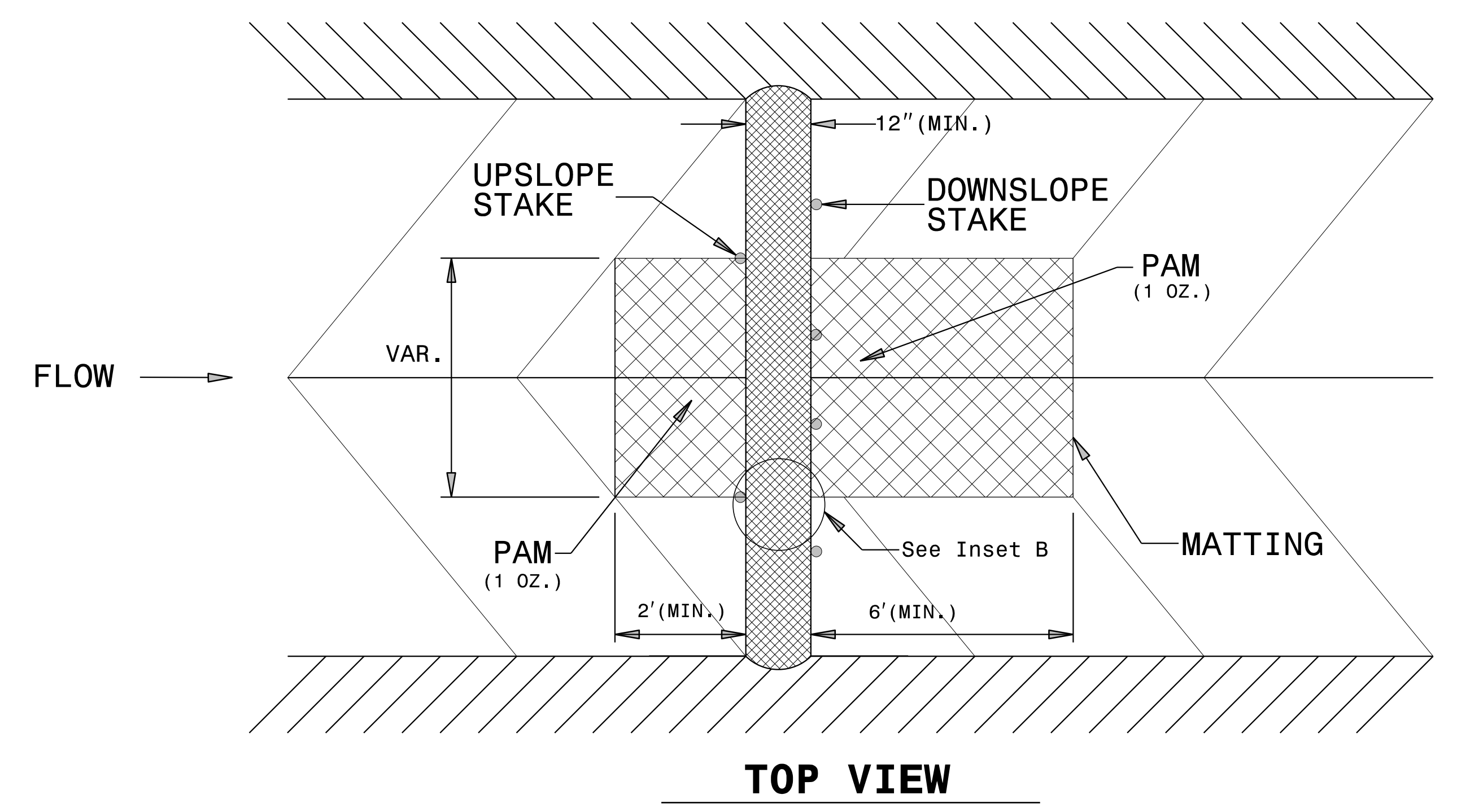
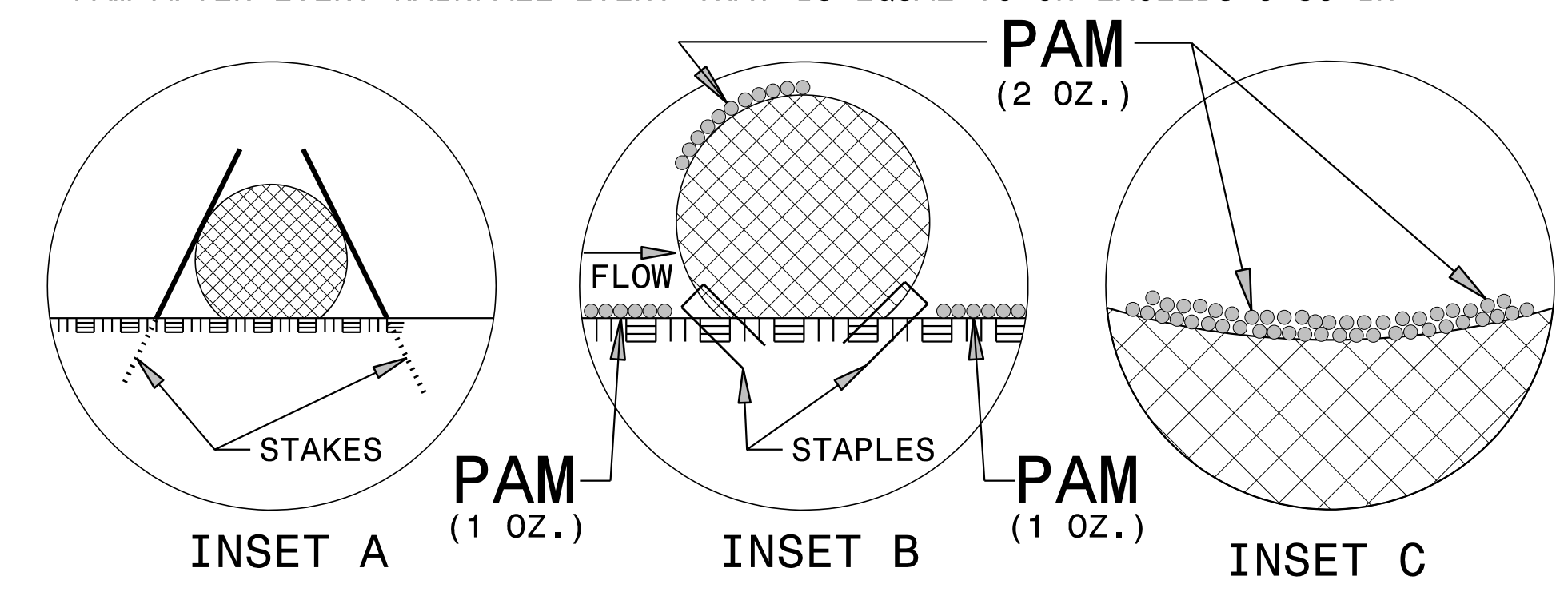
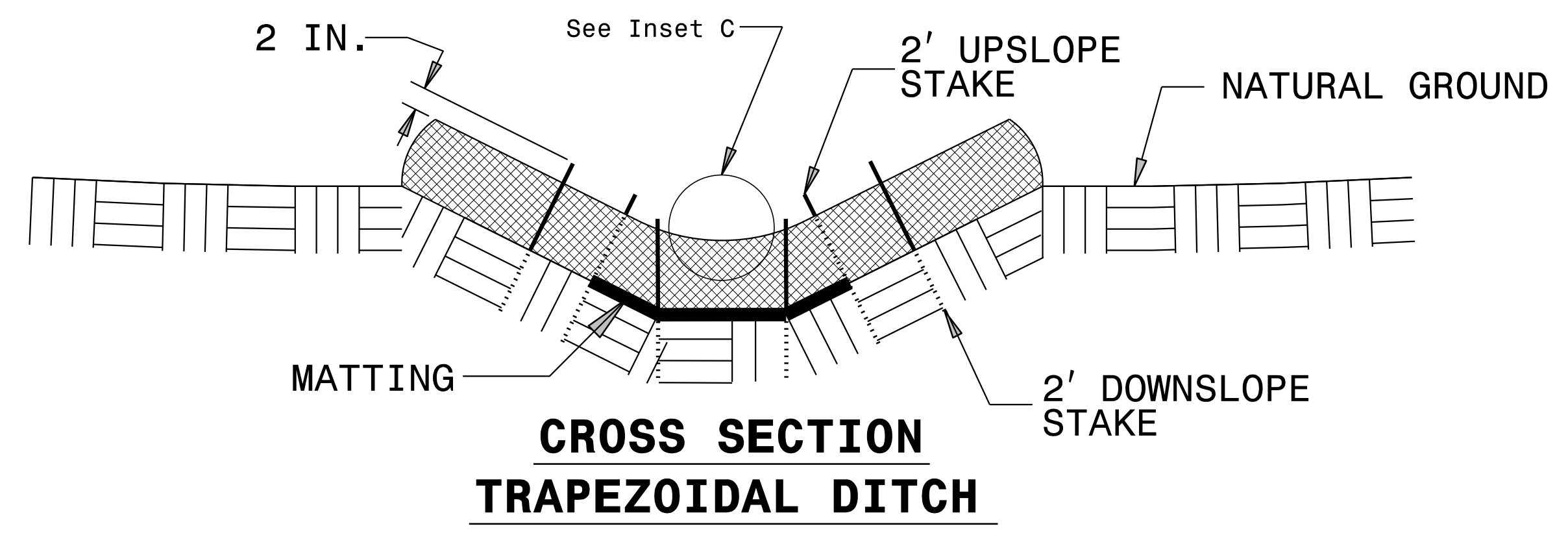
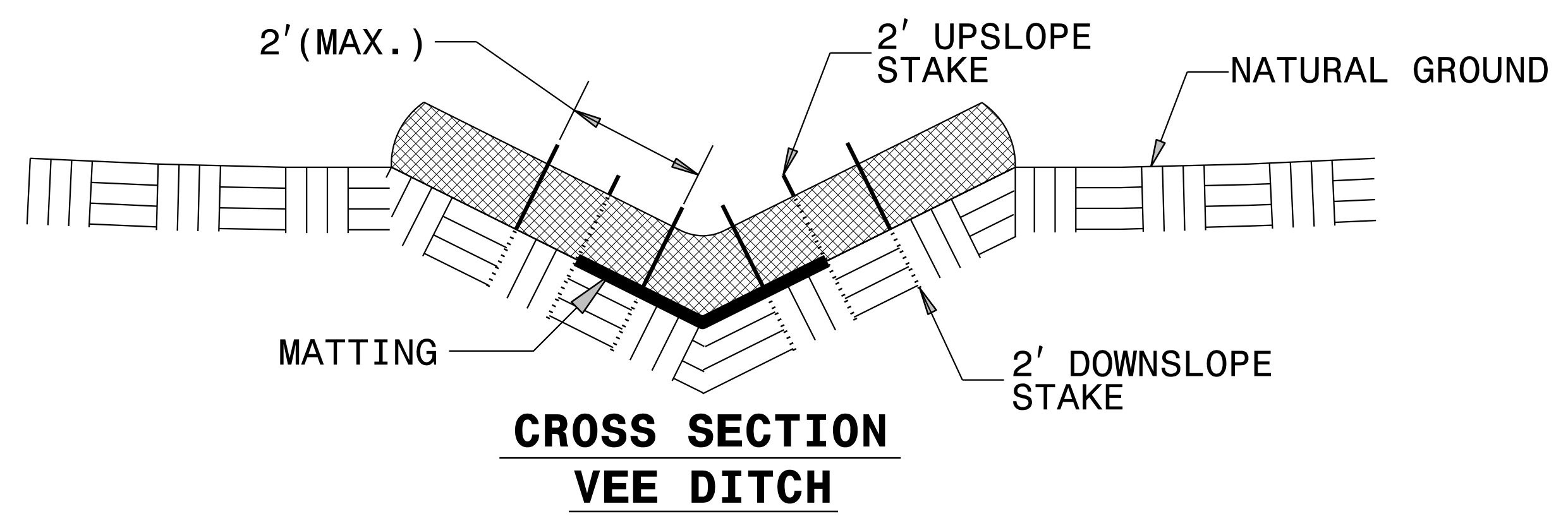
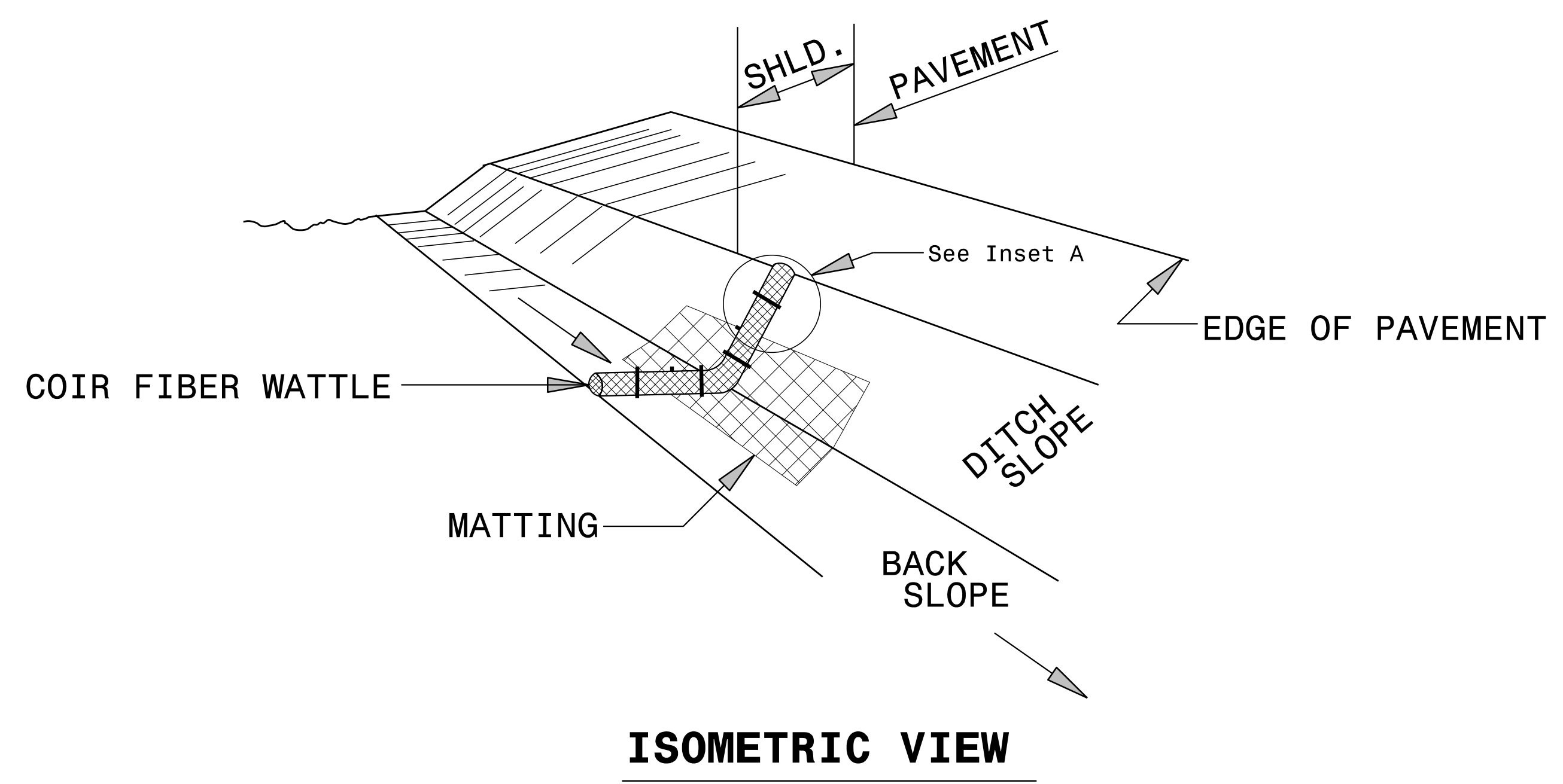
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

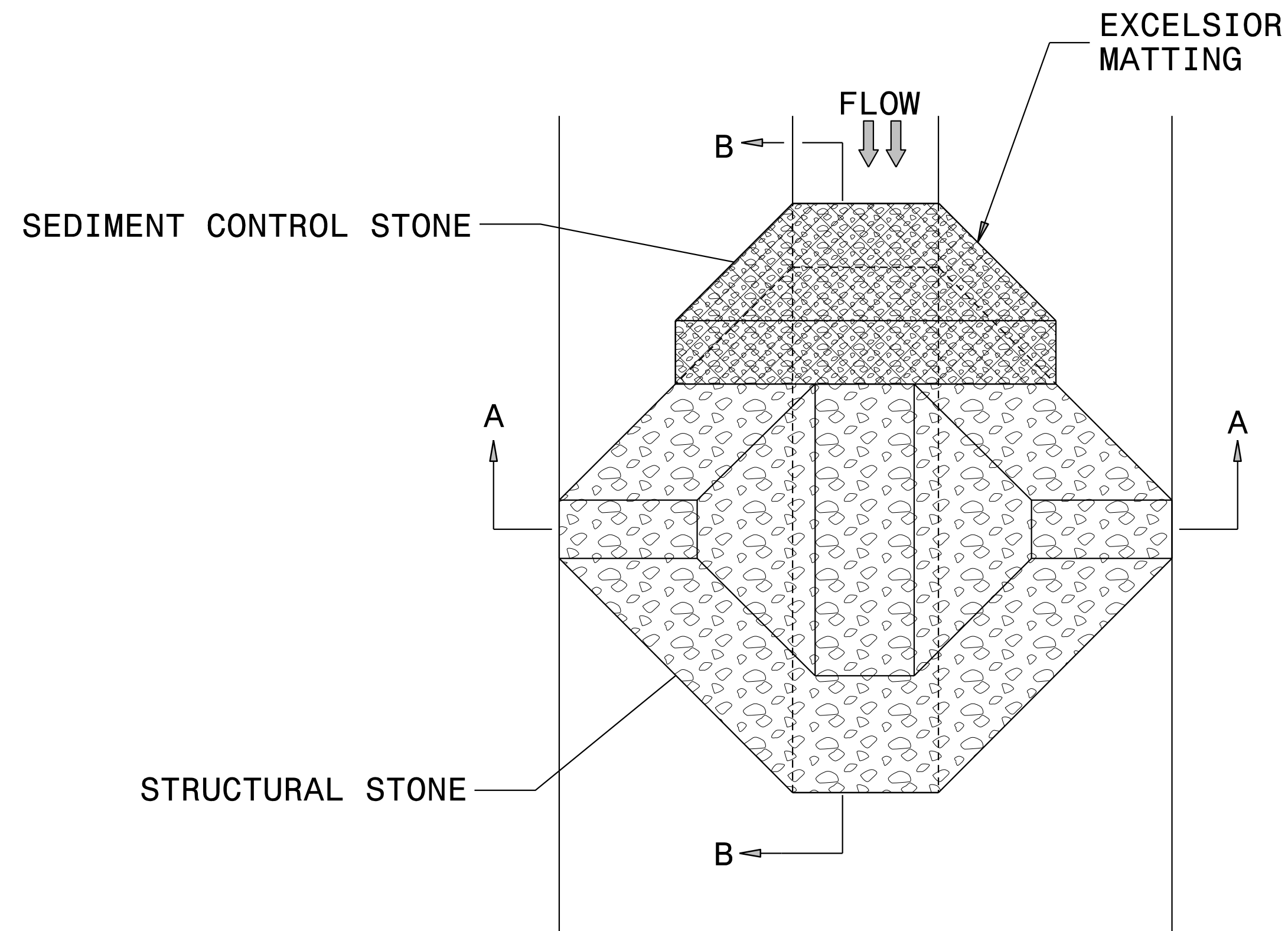
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

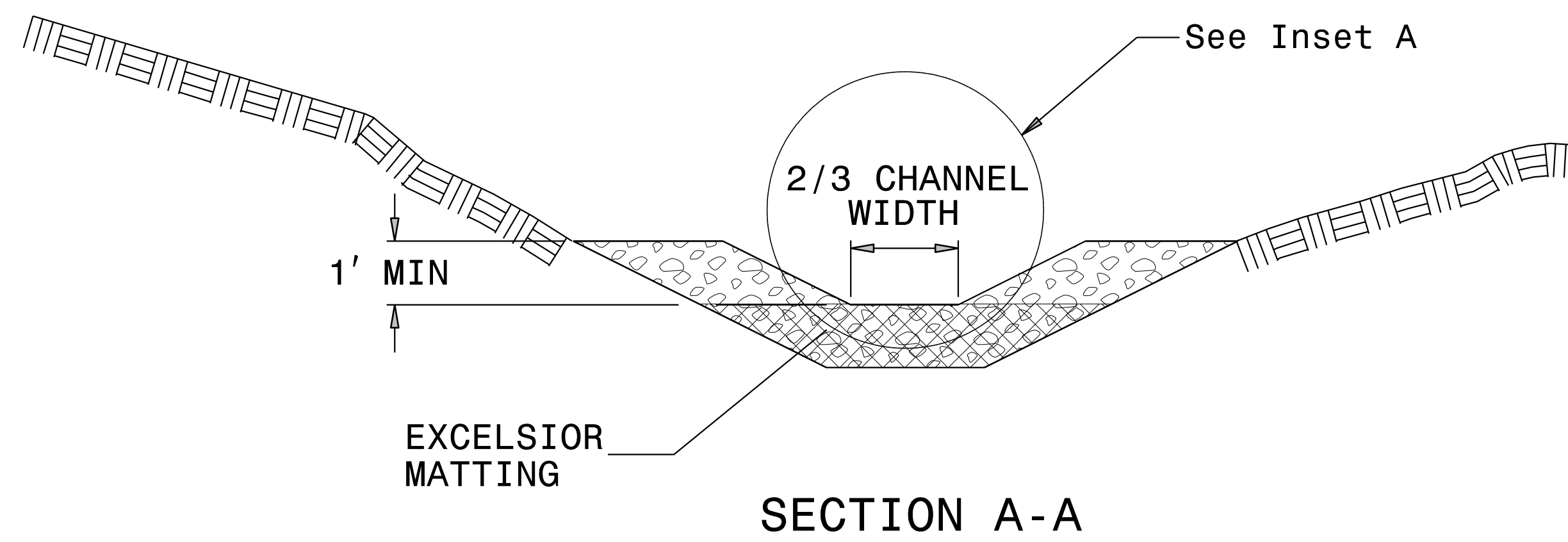


PROJECT REFERENCE NO. Y-4810K	SHEET NO. EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN



SECTION A-A

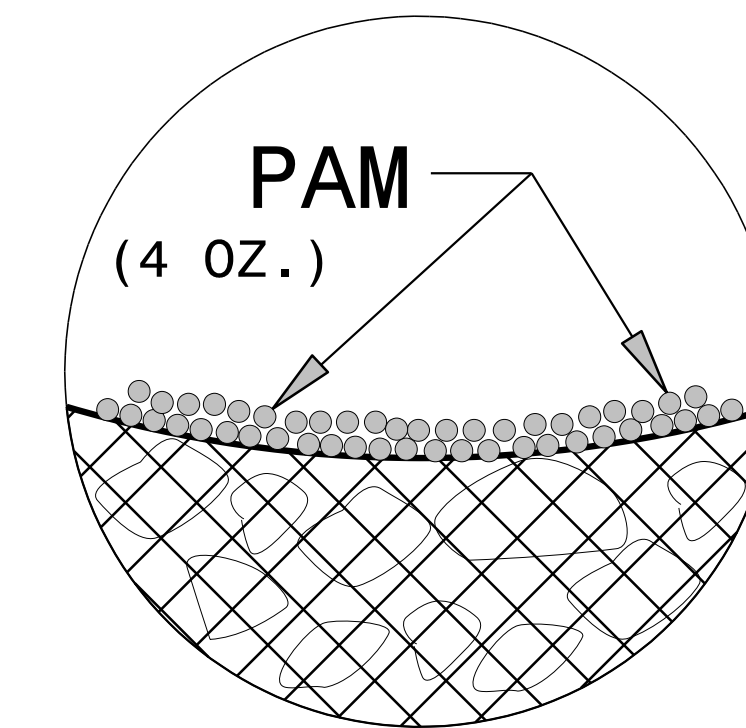
NOTES:

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

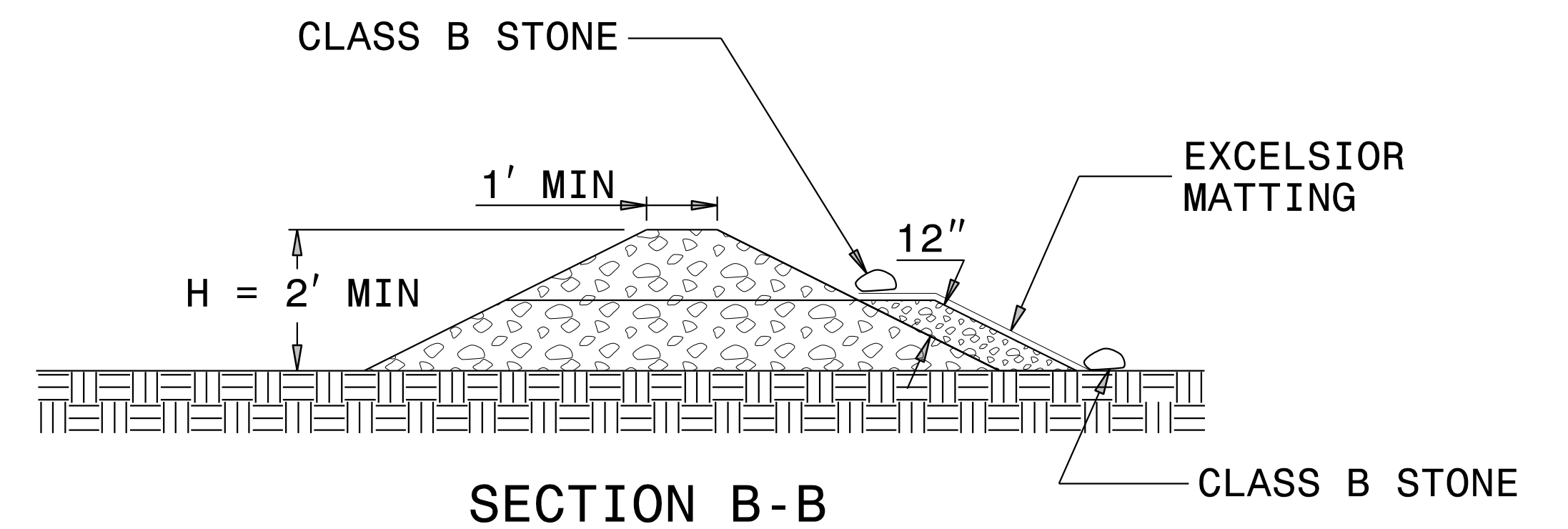
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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 B-B

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

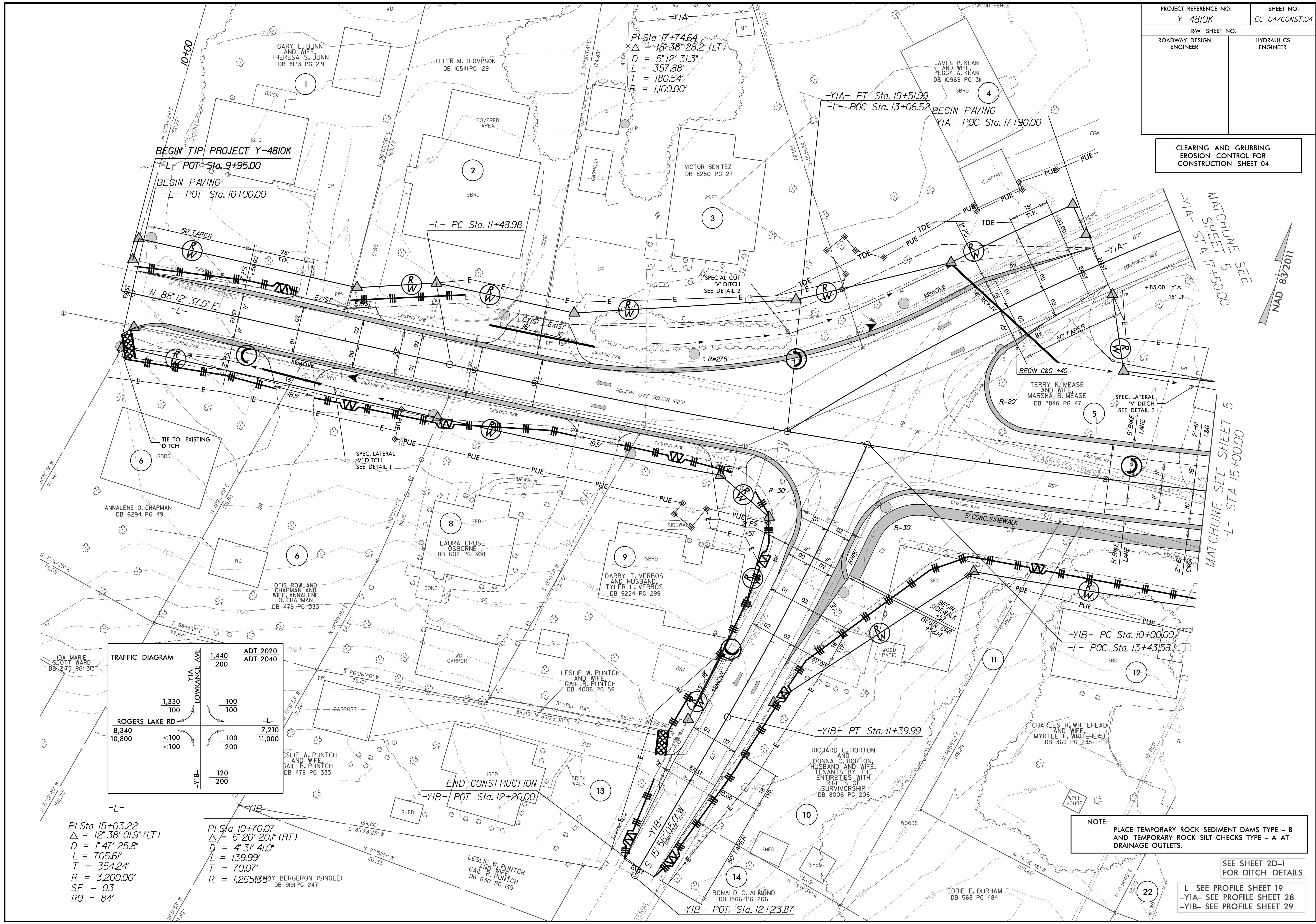
PROJECT REFERENCE NO. <i>Y-4810K</i>	SHEET NO. <i>EC-3B</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04



TRAFFIC DIAGRAM

YIA- LOWRANCE AVE	1,440	ADT 2020	200	ADT 2040
ROGERS LAKE RD	1,330	100	100	100
YIB-	8,340	<100	100	7,210
	10,800	<100	200	11,000
YIB-		120	200	

-L-
PI Sta 15+03.22
Δ = 12° 38' 01.9" (LT)
D = 1' 47' 25.8"
L = 705.61'
T = 354.24'
R = 3,200.00'
SE = 03
RO = 84'

-YIB-
PI Sta 10+70.07
Δ = 6° 20' 20.1" (RT)
D = 4' 31' 41.0"
L = 139.99'
T = 70.07'
R = 1,265.35'

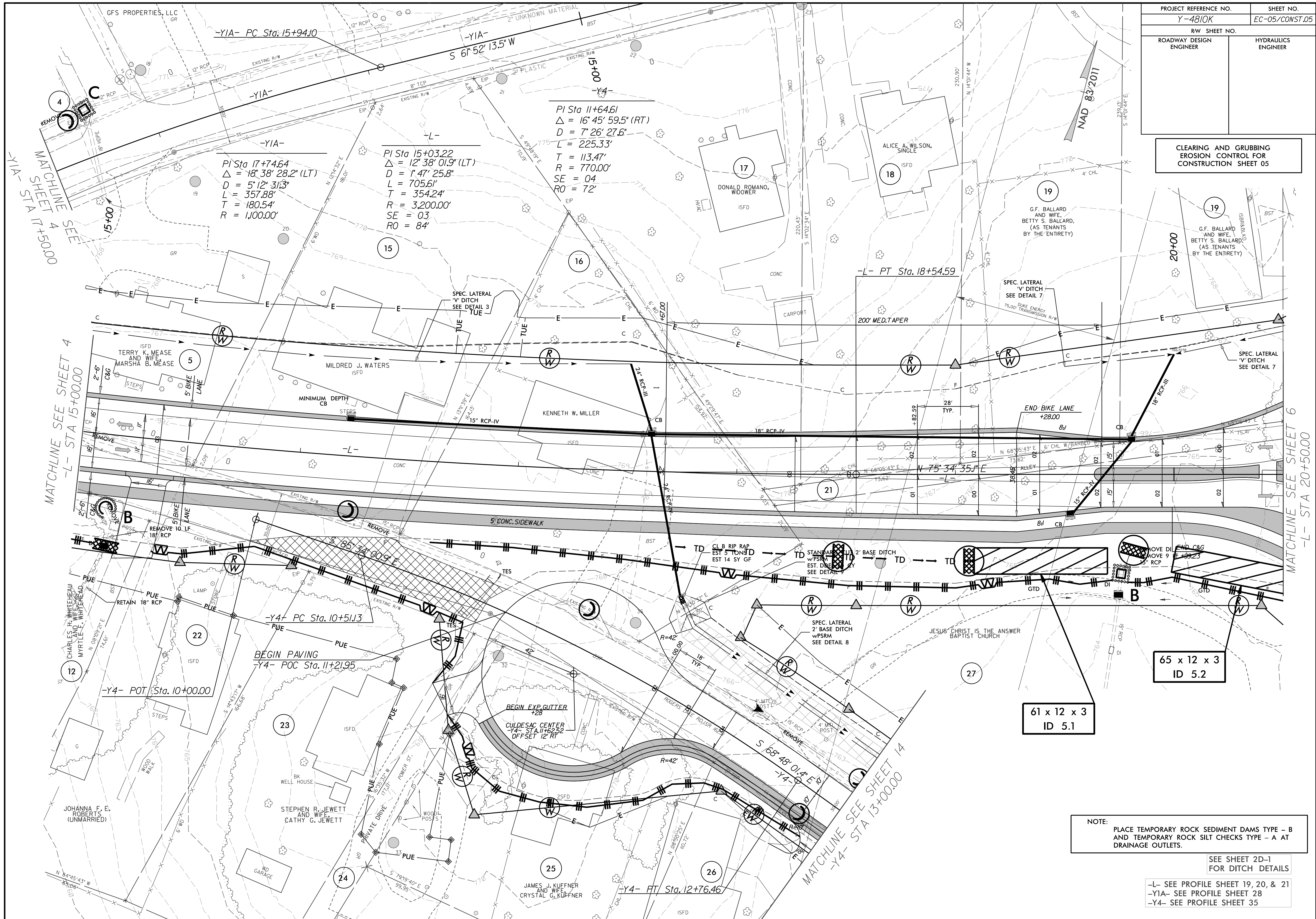
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

SEE SHEET 2D-1 FOR DITCH DETAILS

-L- SEE PROFILE SHEET 19
-YIA- SEE PROFILE SHEET 28
-YIB- SEE PROFILE SHEET 29

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-05/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05



MATCHLINE SEE SHEET 4
-L- STA 15+00.00

MATCHLINE SEE SHEET 6
-L- STA 20+50.00

65 x 12 x 3
ID 5.2

61 x 12 x 3
ID 5.1

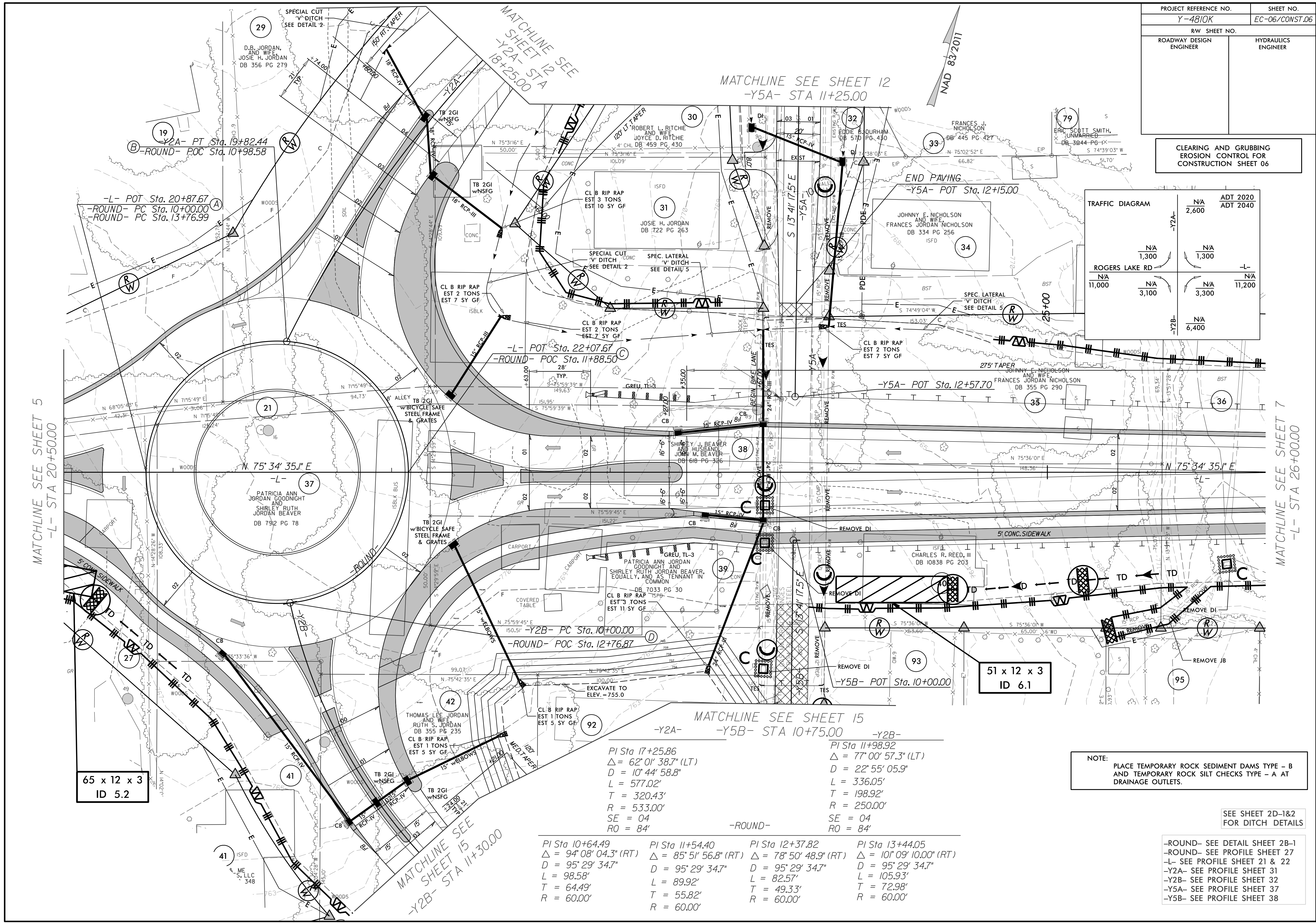
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

SEE SHEET 2D-1
FOR DITCH DETAILS

-L- SEE PROFILE SHEET 19, 20, & 21
-Y1A- SEE PROFILE SHEET 28
-Y4- SEE PROFILE SHEET 35

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06

TRAFFIC DIAGRAM		ADT 2020	ADT 2040
		N/A	2,600
		1,300	N/A
		1,300	N/A
		N/A	11,200
		3,100	N/A
		3,300	N/A
		N/A	6,400



MATCHLINE SEE SHEET 5
-L- STA 20+50.00

MATCHLINE SEE SHEET 7
-L- STA 26+00.00

65 x 12 x 3
ID 5.2

51 x 12 x 3
ID 6.1

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

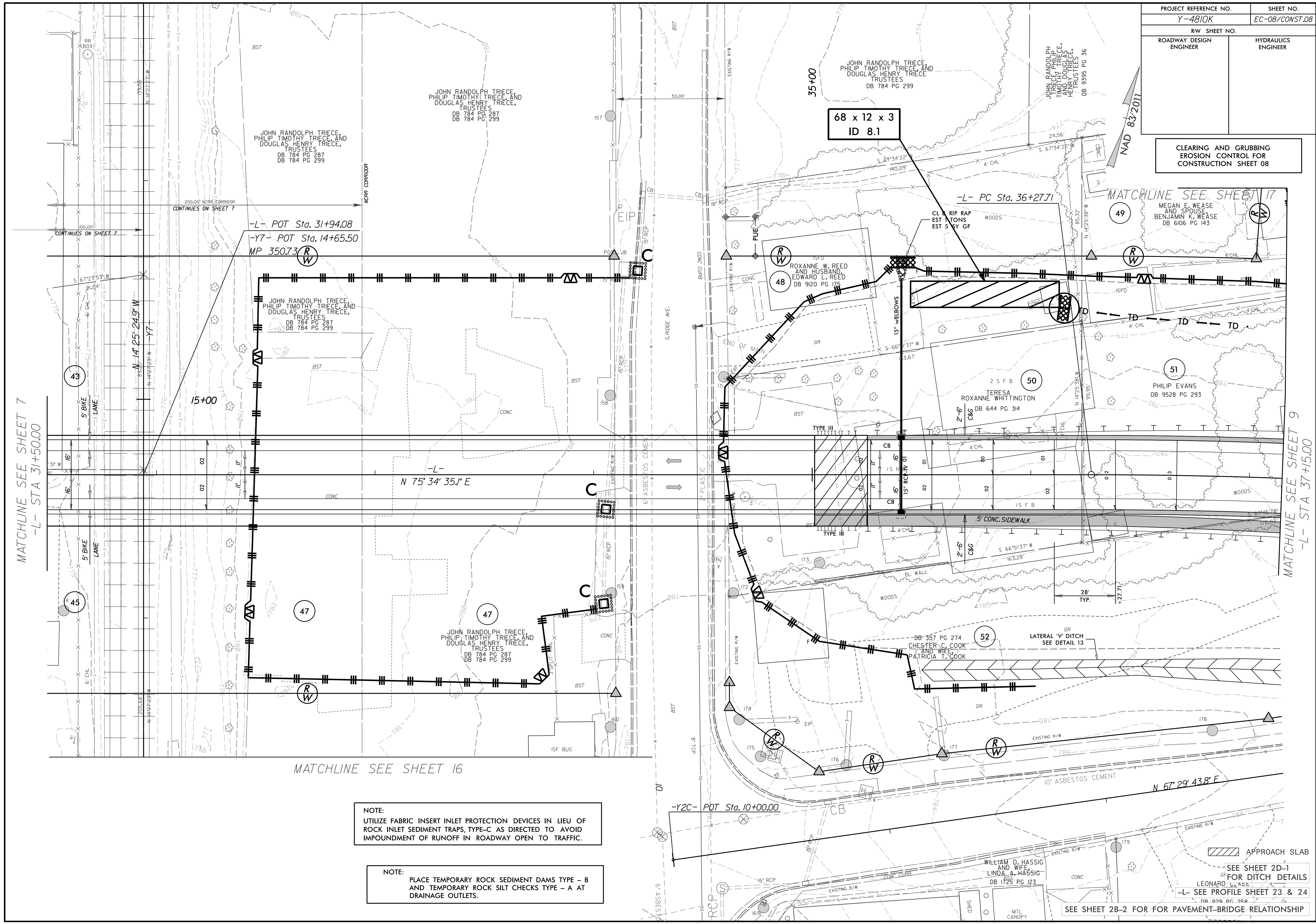
SEE SHEET 2D-1&2
FOR DITCH DETAILS

<p>PI Sta 10+64.49 Δ = 94° 08' 04.3" (RT) D = 95' 29' 34.7" L = 98.58' T = 64.49' R = 60.00'</p>	<p>PI Sta 11+54.40 Δ = 85° 51' 56.8" (RT) D = 95' 29' 34.7" L = 89.92' T = 55.82' R = 60.00'</p>	<p>PI Sta 12+37.82 Δ = 78° 50' 48.9" (RT) D = 95' 29' 34.7" L = 82.57' T = 49.33' R = 60.00'</p>	<p>PI Sta 13+44.05 Δ = 101° 09' 10.00" (RT) D = 95' 29' 34.7" L = 105.93' T = 72.98' R = 60.00'</p>
<p>PI Sta 17+25.86 Δ = 62° 01' 38.7" (LT) D = 10' 44' 58.8" L = 577.02' T = 320.43' R = 533.00' SE = 04' RO = 84'</p>	<p>PI Sta 11+98.92 Δ = 77° 00' 57.3" (LT) D = 22' 55' 05.9" L = 336.05' T = 198.92' R = 250.00' SE = 04' RO = 84'</p>		

-ROUND- SEE DETAIL SHEET 2B-1
-L- SEE PROFILE SHEET 27
-L- SEE PROFILE SHEET 21 & 22
-Y2A- SEE PROFILE SHEET 31
-Y2B- SEE PROFILE SHEET 32
-Y5A- SEE PROFILE SHEET 37
-Y5B- SEE PROFILE SHEET 38

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-08/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08



MATCHLINE SEE SHEET 7
-L- STA 31+50.00

MATCHLINE SEE SHEET 9
-L- STA 37+15.00

-L- POT Sta. 31+94.08
-Y7- POT Sta. 14+65.50
MP 350.73 (RW)

-L- PC Sta. 36+27.71

-Y2C- POT Sta. 10+00.00

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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

/// APPROACH SLAB
SEE SHEET 2D-1
FOR DITCH DETAILS
LEONARD, SEE
-L- SEE PROFILE SHEET 23 & 24
DB 929 PG 258

SEE SHEET 2B-2 FOR FOR PAVEMENT-BRIDGE RELATIONSHIP

MATCHLINE SEE SHEET 16

MATCHLINE SEE SHEET 17
MEGAN E. WEASE
AND SPOUSE
BENJAMIN K. WEASE
DB 6106 PG 143

JOHN RANDOLPH TRIECE,
PHILIP TIMOTHY TRIECE, AND
DOUGLAS HENRY TRIECE,
TRUSTEES
DB 784 PG 287
DB 784 PG 299

JOHN RANDOLPH TRIECE,
PHILIP TIMOTHY TRIECE, AND
DOUGLAS HENRY TRIECE,
TRUSTEES
DB 784 PG 287
DB 784 PG 299

68 x 12 x 3
ID 8.1

JOHN RANDOLPH TRIECE,
PHILIP TIMOTHY TRIECE, AND
DOUGLAS HENRY TRIECE,
TRUSTEES
DB 784 PG 299

JOHN RANDOLPH TRIECE,
PHILIP TIMOTHY TRIECE, AND
DOUGLAS HENRY TRIECE,
TRUSTEES
DB 9395 PG 36

ROXANNE W. REED
AND HUSBAND
EDWARD L. REED
DB 9120 PG 175

2 SFB
TERESA
ROXANNE WHITTINGTON
DB 644 PG 314

PHILIP EVANS
DB 9528 PG 293

JOHN RANDOLPH TRIECE,
PHILIP TIMOTHY TRIECE, AND
DOUGLAS HENRY TRIECE,
TRUSTEES
DB 784 PG 287
DB 784 PG 299

DB 357 PG 274
CHESTER C. COOK
AND WIFE
PATRICIA T. COOK

WILLIAM D. HASSIG
AND WIFE
LINDA A. HASSIG
DB 1725 PG 123

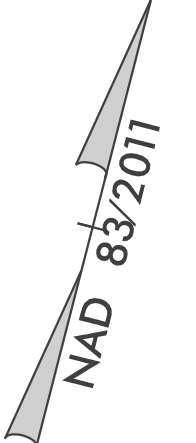
PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-09/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
 PI Sta 37+53.74 PI Sta 42+73.11
 $\Delta = 6' 16'' 23.3''$ (RT) $\Delta = 13' 57'' 57.4''$ (LT)
 $D = 2' 29'' 28.0''$ $D = 2' 29'' 28.0''$
 $L = 251.82'$ $L = 560.63'$
 $T = 126.04'$ $T = 281.71'$
 $R = 2,300.00'$ $R = 2,300.00'$
 $SE = 03$ $SE = 03$
 $RO = 84'$ $RO = 84'$

-Y2C-
 PI Sta 16+61.08
 $\Delta = 45' 03'' 49.7''$ (RT)
 $D = 12' 43'' 56.6''$
 $L = 353.93'$
 $T = 186.69'$
 $R = 450.00'$
 $SE = 06$
 $RO = 108.00'$

25 x 51 x 3
 1.5 inch Skimmer
 with 1.0 inch
 Orifice Diameter
 5 ft. weir
 ID 9.1

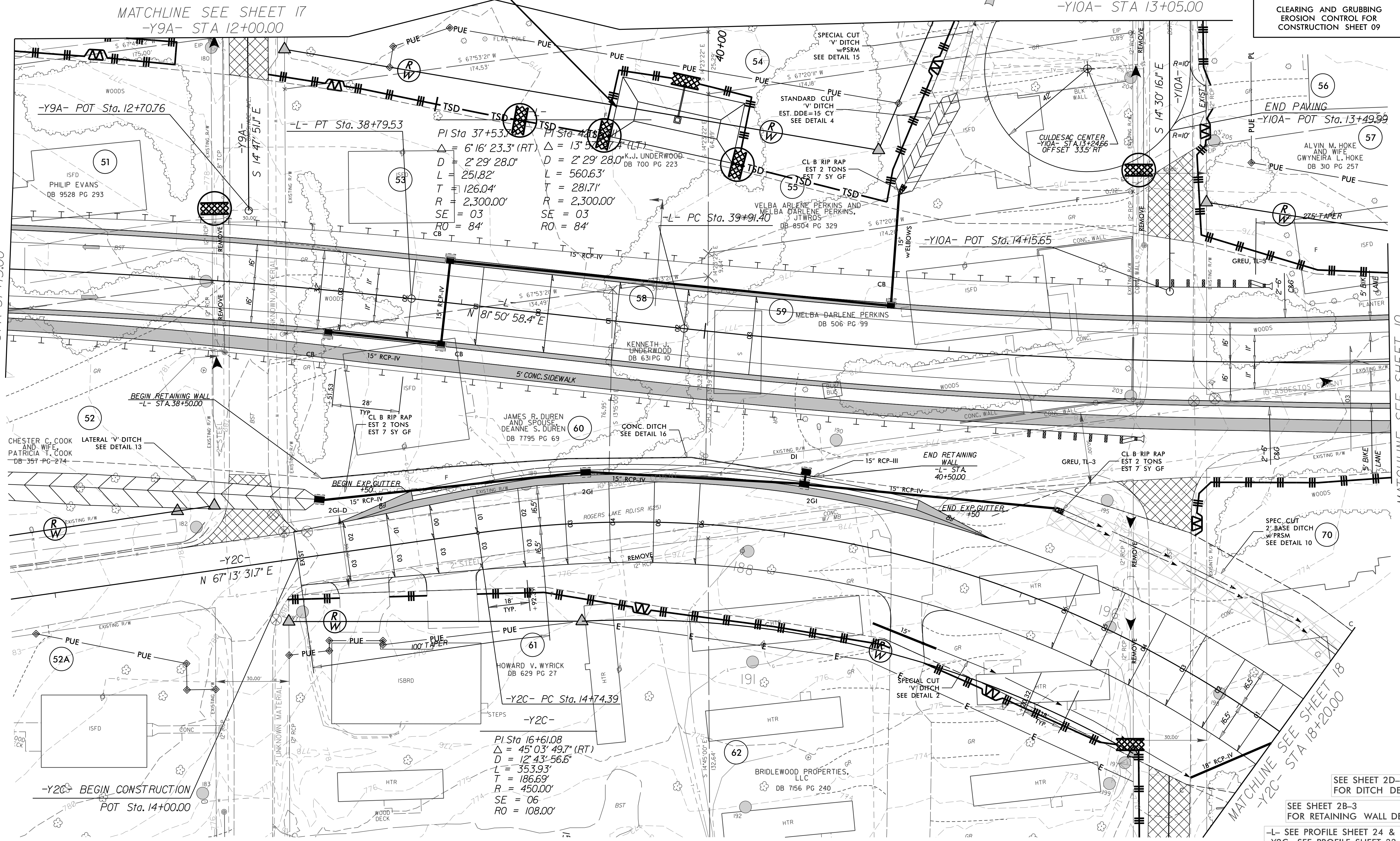
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



MATCHLINE SEE SHEET 17
 -Y10A- STA 13+05.00

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 09

MATCHLINE SEE SHEET 8
 -L- STA 37+15.00



MATCHLINE SEE SHEET 10
 -L- STA 42+80.00

MATCHLINE SEE SHEET 18
 -Y2C- STA 18+20.00

-Y2C- BEGIN CONSTRUCTION
 POT Sta. 14+00.00

SEE SHEET 2D-1
 FOR DITCH DETAILS

SEE SHEET 2B-3
 FOR RETAINING WALL DETAILS

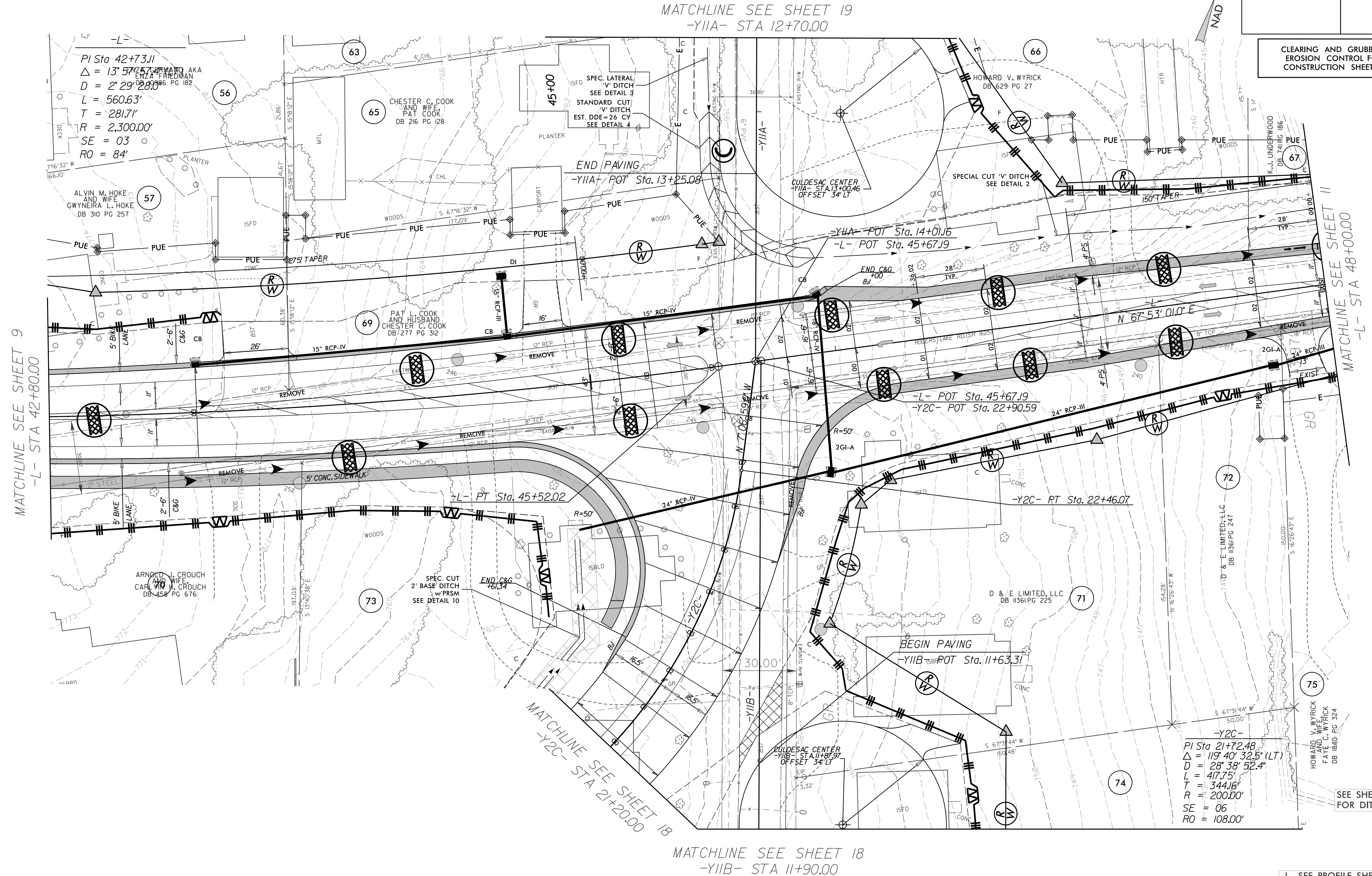
-L- SEE PROFILE SHEET 24 & 25
 -Y2C- SEE PROFILE SHEET 33 & 34
 -Y9A- SEE PROFILE SHEET 39
 -Y10A- SEE PROFILE SHEET 40

*DESIGN EXCEPTION:
LANE TAPER RATE

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

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-10/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10



PI Sta 42+73.11
 $\Delta = 13^\circ 57' 27.77''$
 $D = 2^\circ 29' 28.00''$
 $L = 560.63'$
 $T = 281.71'$
 $R = 2,300.00'$
 $SE = 03$
 $RO = 84'$

ALVIN M. HOKE AND WIFE
 GWYNETH L. HOKE
 DB 310 PG 257

PAT L. COOK AND HUSBAND
 CHESTER C. COOK
 DB 277 PG 312

ARNOLD J. CROUCH AND WIFE
 CAROLYN J. CROUCH
 DB 458 PG 676

BEGIN PAVING
 -Y11B- POT Sta. 11+63.31

PI Sta 21+72.48
 $\Delta = 119^\circ 40' 32.5''$ (LT)
 $D = 28^\circ 38' 52.4''$
 $L = 417.75'$
 $T = 344.16'$
 $R = 200.00'$
 $SE = 06$
 $RO = 108.00'$

SEE SHEET 2D-1
FOR DITCH DETAILS

-L- SEE PROFILE SHEET 25 & 26
 -Y2C- SEE PROFILE SHEET 35
 -Y11A- SEE PROFILE SHEET 41
 -Y11B- SEE PROFILE SHEET 42

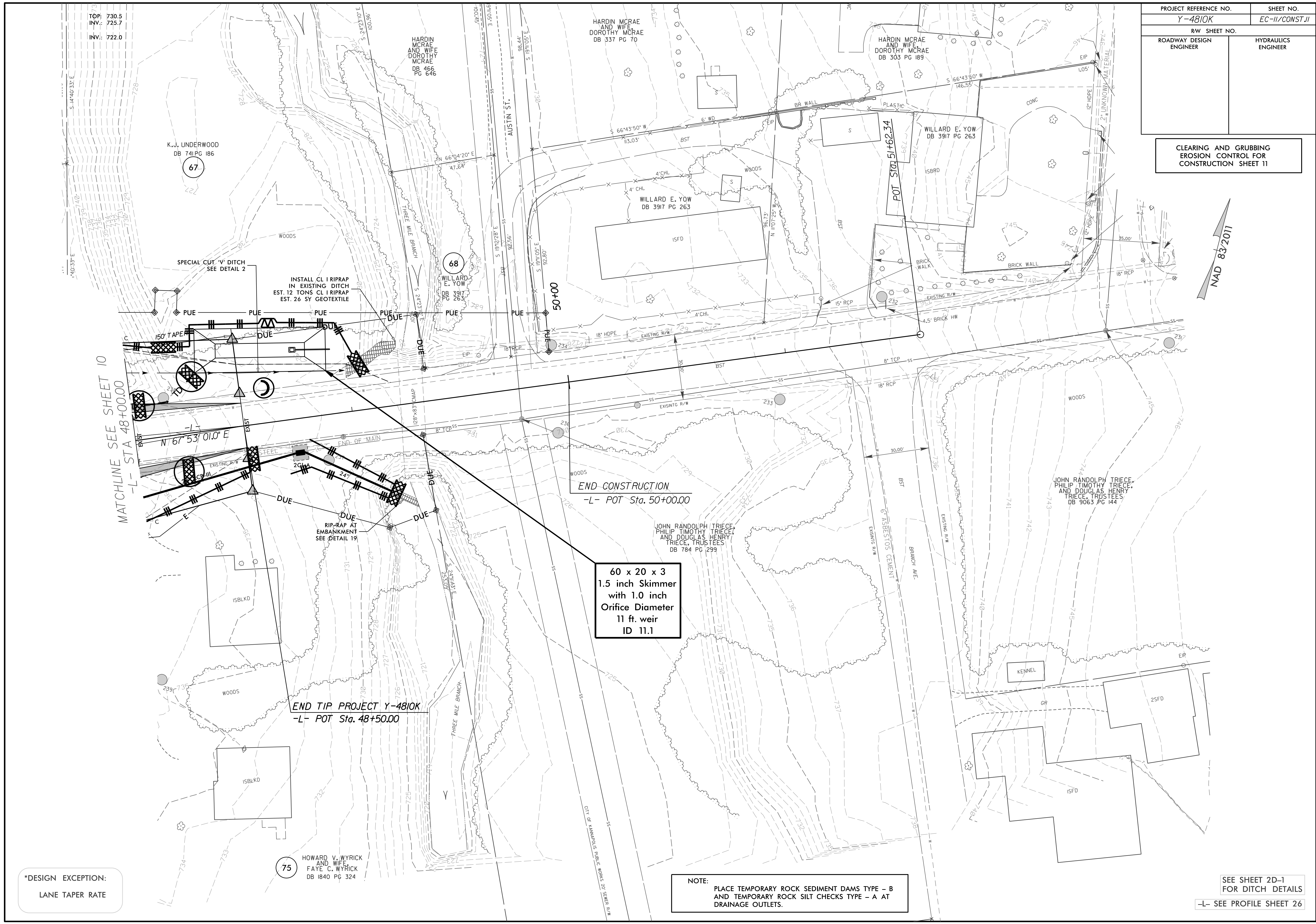
NAD 83/2011

TOP: 730.5
 INV.: 725.7
 INV.: 722.0

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-II/CONST.II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 11

NAD 83/2011



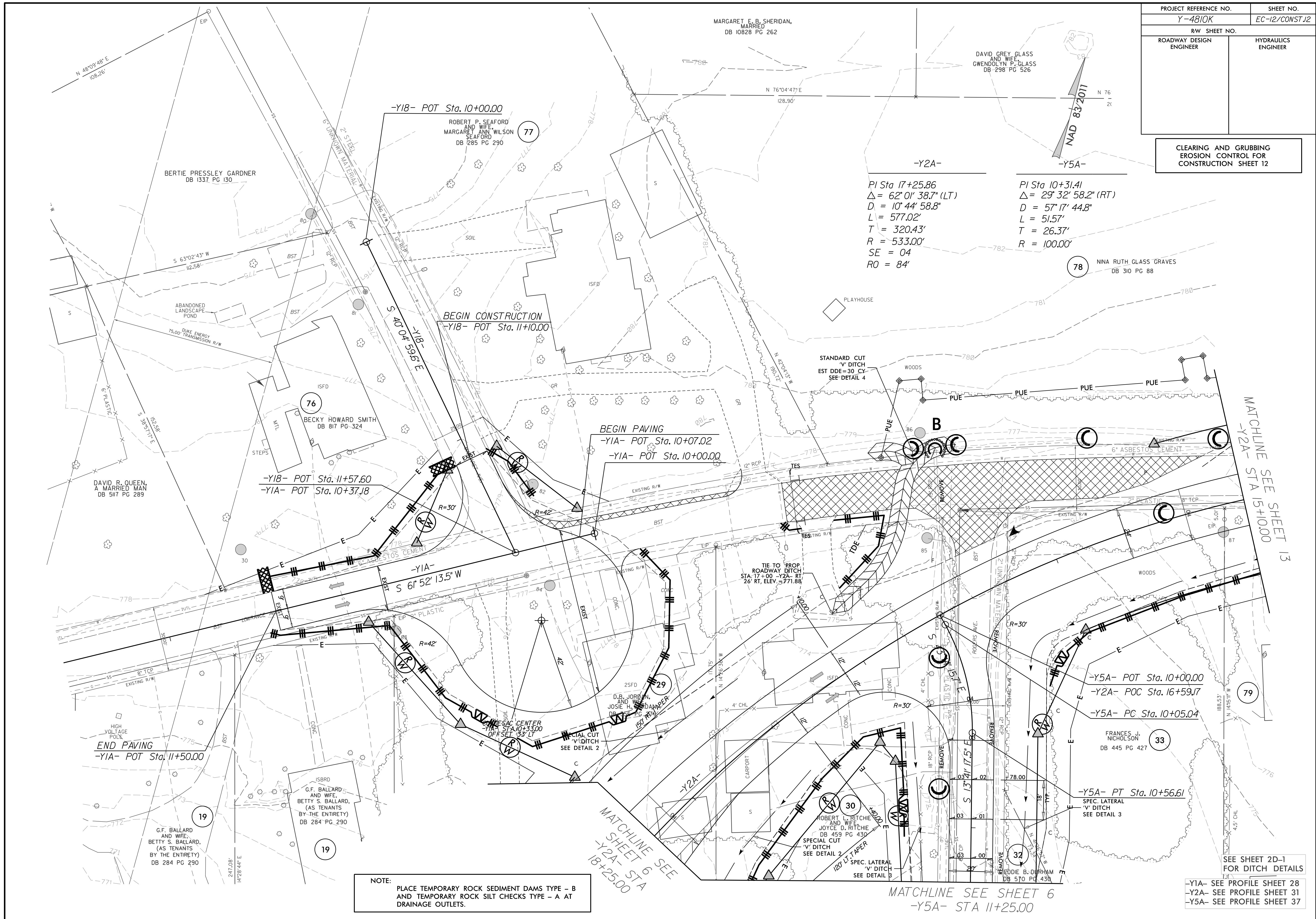
*DESIGN EXCEPTION:
 LANE TAPER RATE

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

SEE SHEET 2D-1
 FOR DITCH DETAILS
 -L- SEE PROFILE SHEET 26

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-12/CONST J2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12



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

SEE SHEET 2D-1 FOR DITCH DETAILS
-Y1A- SEE PROFILE SHEET 28
-Y2A- SEE PROFILE SHEET 31
-Y5A- SEE PROFILE SHEET 37

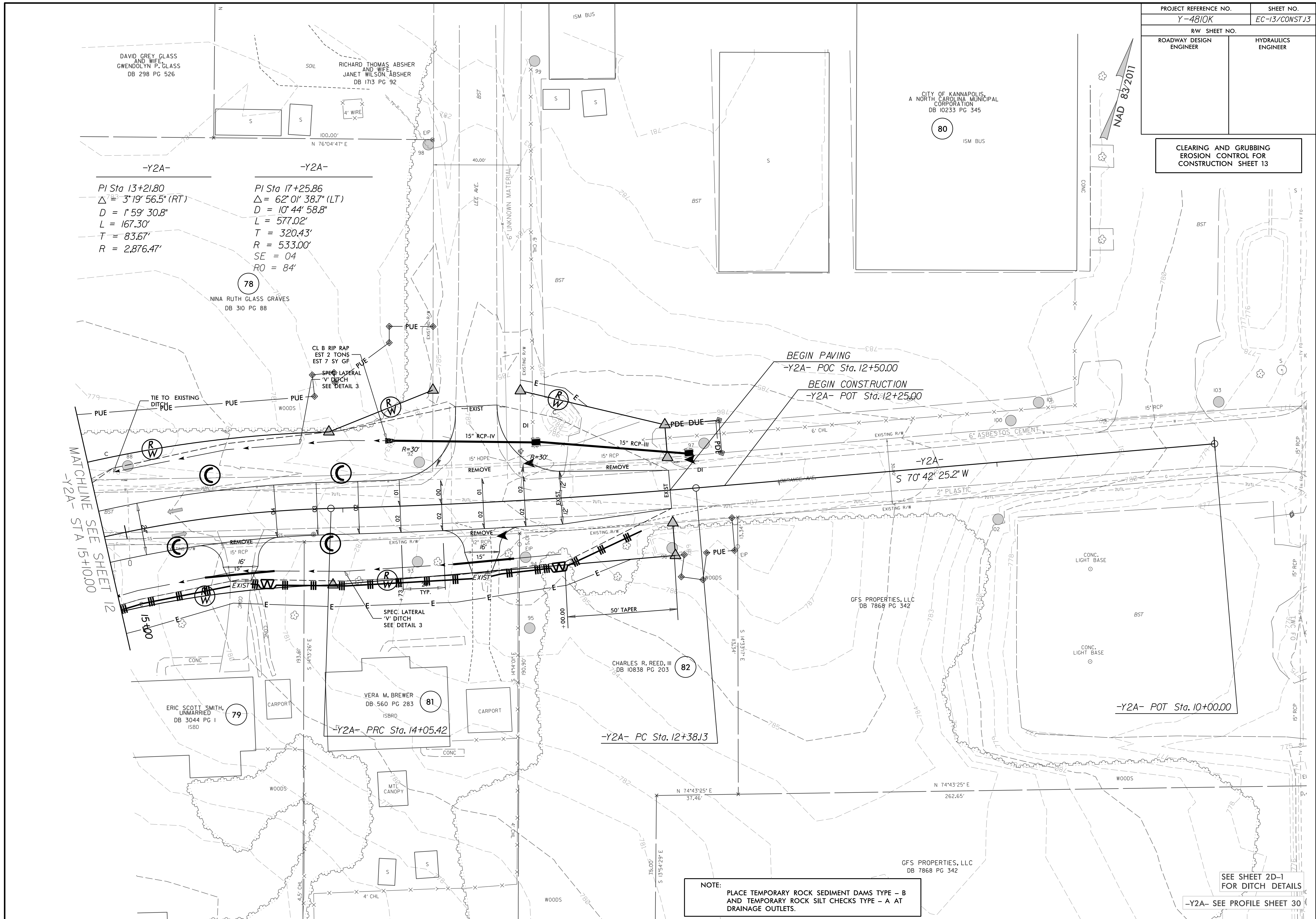
MATCHLINE SEE SHEET 6
-Y5A- STA 11+25.00

MATCHLINE SEE SHEET 6
-Y2A- STA 18+25.00

MATCHLINE SEE SHEET 13
-Y2A- STA 15+10.00

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-13/CONST13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13



-Y2A-
 PI Sta 13+21.80
 $\Delta = 3^{\circ}19'56.5\" (RT)$
 $D = 1^{\circ}59'30.8\"$
 $L = 167.30'$
 $T = 83.67'$
 $R = 2,876.47'$

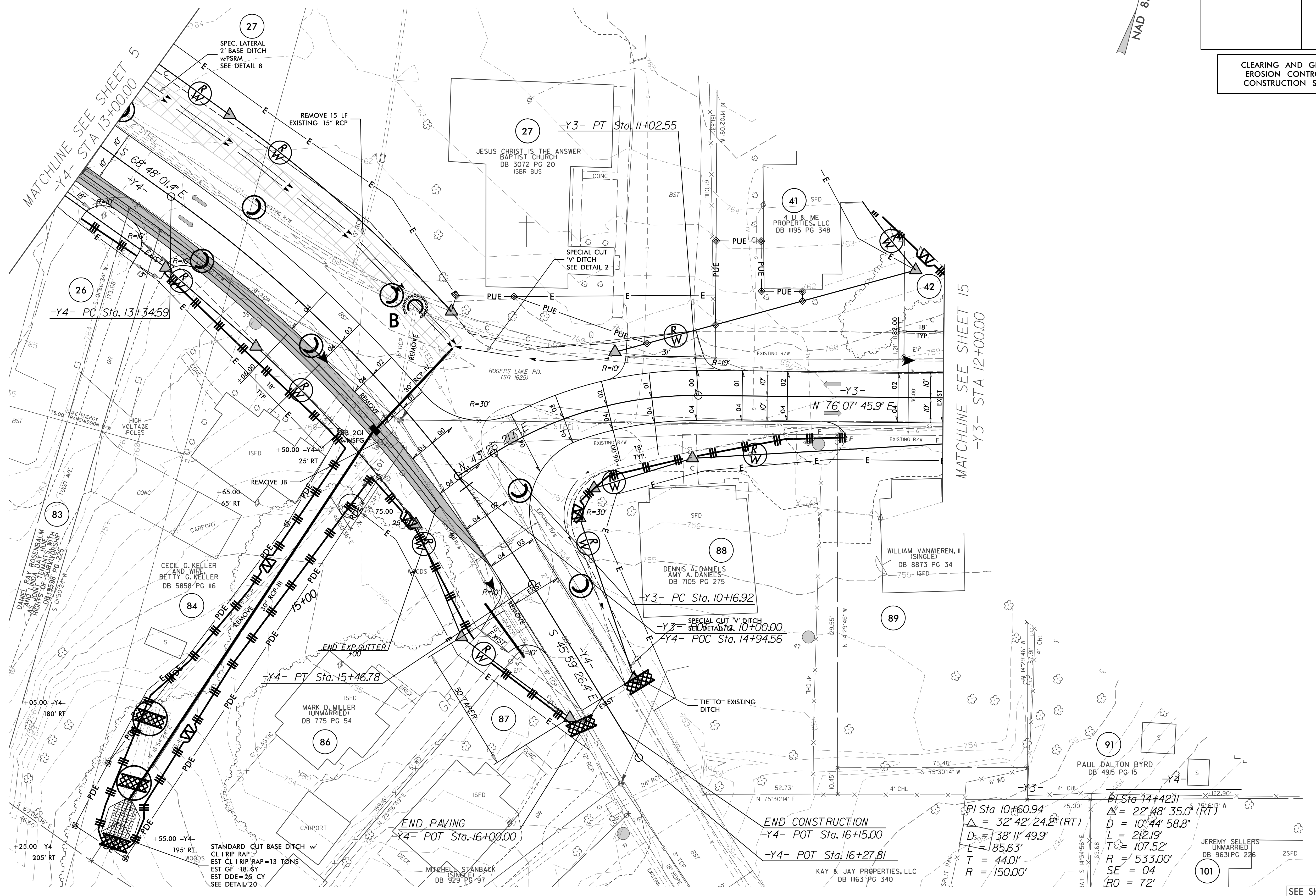
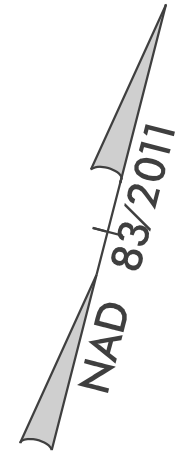
-Y2A-
 PI Sta 17+25.86
 $\Delta = 62^{\circ}01'38.7\" (LT)$
 $D = 10^{\circ}44'58.8\"$
 $L = 577.02'$
 $T = 320.43'$
 $R = 533.00'$
 $SE = 04'$
 $RO = 84'$

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

SEE SHEET 2D-1
 FOR DITCH DETAILS
 -Y2A- SEE PROFILE SHEET 30

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-14/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14



PI Sta 10+60.94
 $\Delta = 32^{\circ} 42' 24.2''$ (RT)
 $D = 38^{\circ} 11' 49.9''$
 $L = 85.63'$
 $T = 44.01'$
 $R = 150.00'$

PI Sta 14+42.11
 $\Delta = 22^{\circ} 48' 35.0''$ (RT)
 $D = 10^{\circ} 44' 58.8''$
 $L = 212.19'$
 $T = 107.52'$
 $R = 533.00'$
 $SE = 04$
 $RO = 72'$

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

SEE SHEET 2D-1
 FOR DITCH DETAILS

-Y4- SEE PROFILE SHEET 35 & 36
 -Y3- SEE PROFILE SHEET 36

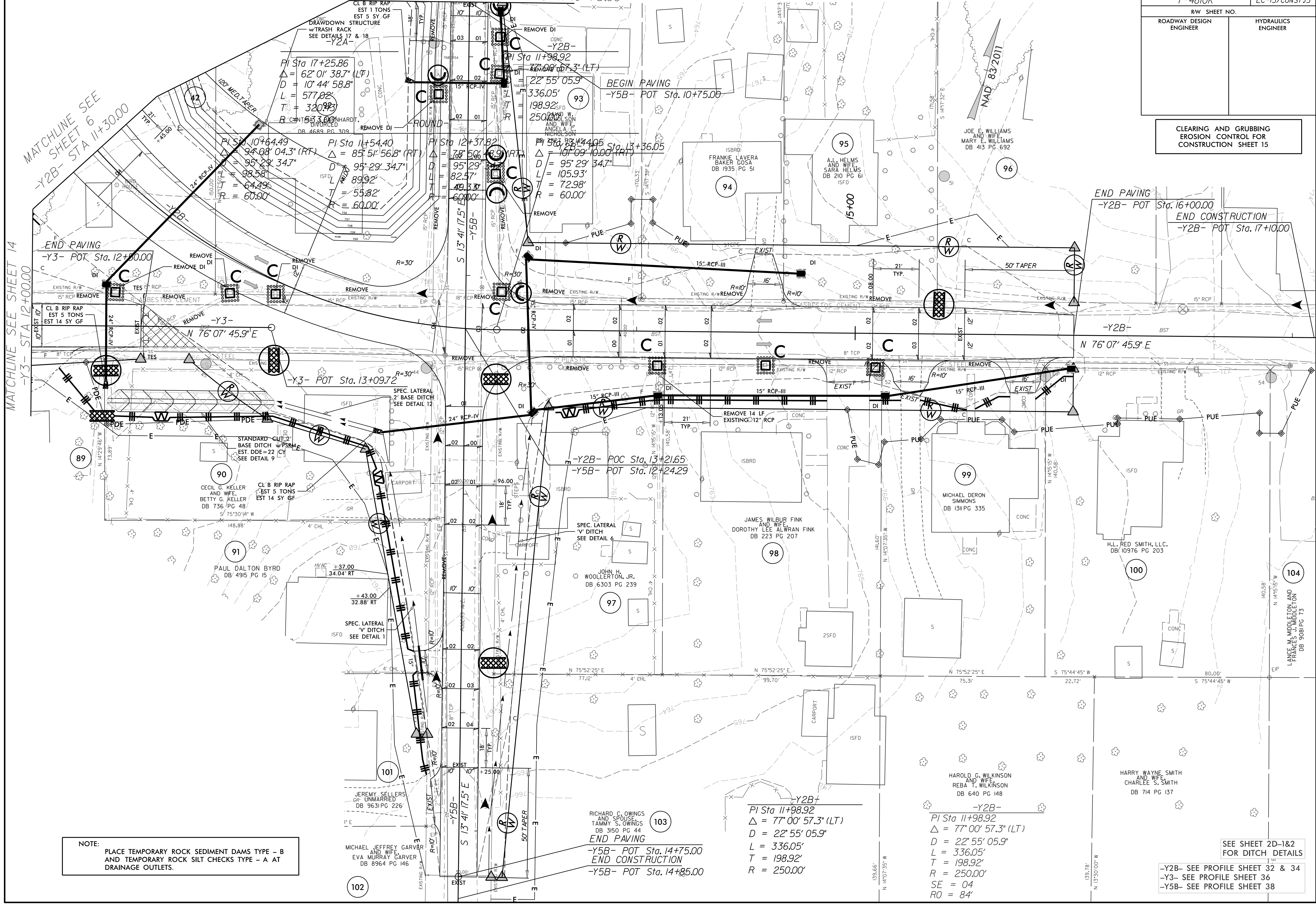
MATCHLINE SEE SHEET 6 -Y5B- STA 10+75.00

PROJECT REFERENCE NO. Y-4810K	SHEET NO. EC-15/CONST15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15

MATCHLINE SEE SHEET 14
-Y3- STA 12+00.00

MATCHLINE SEE
SHEET 6
-Y2B- STA 11+30.00



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

SEE SHEET 2D-1&2
FOR DITCH DETAILS
-Y2B- SEE PROFILE SHEET 32 & 34
-Y3- SEE PROFILE SHEET 36
-Y5B- SEE PROFILE SHEET 38

Richard C. Owings
and spouse
TAMMY S. OWINGS
DB 3150 PG 44
END PAVING
-Y5B- POT Sta. 14+75.00
END CONSTRUCTION
-Y5B- POT Sta. 14+85.00

-Y2B-
PI Sta 11+98.92
Δ = 77° 00' 57.3" (LT)
D = 22° 55' 05.9"
L = 336.05'
T = 198.92'
R = 250.00'

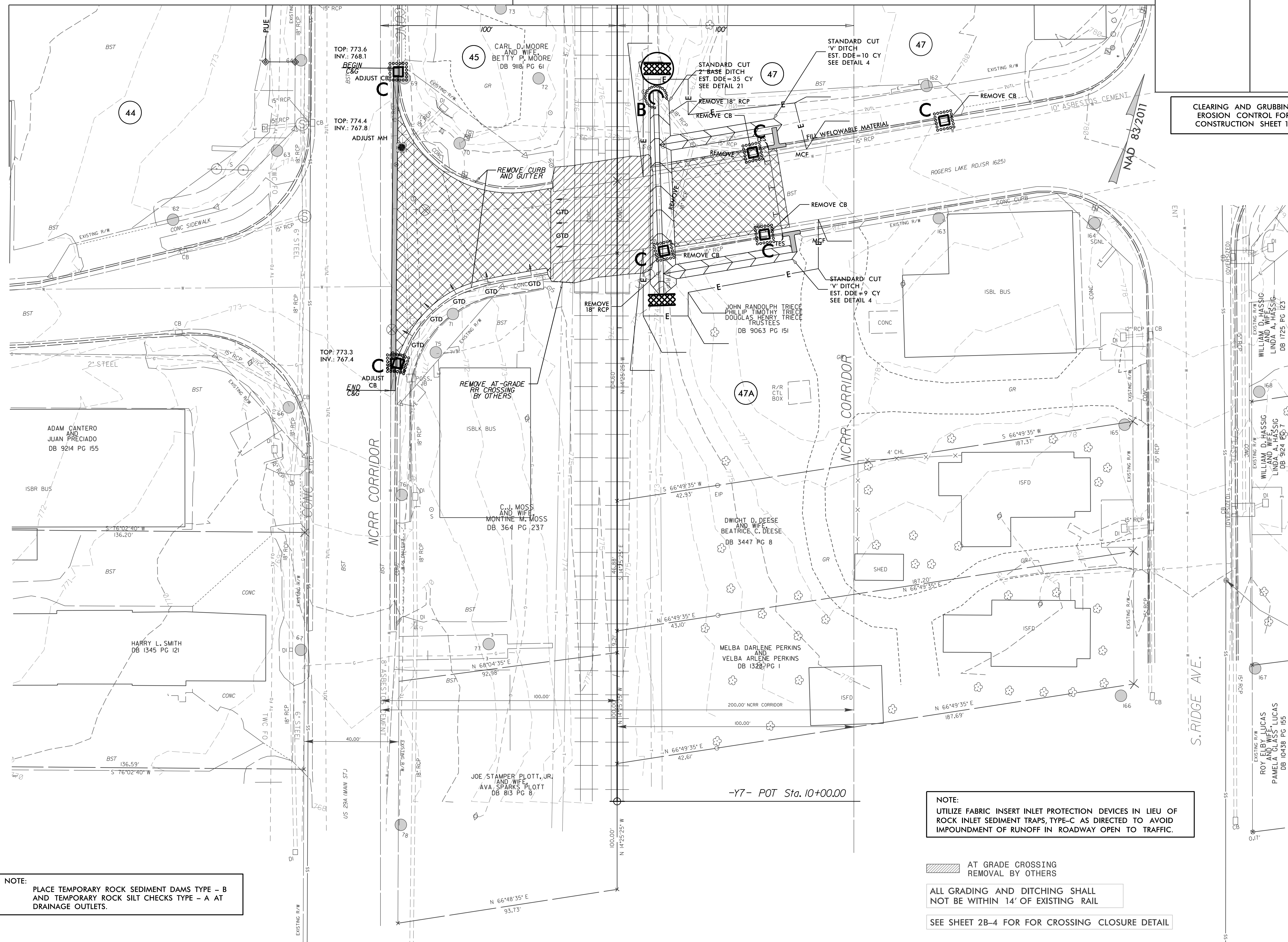
-Y2B-
PI Sta 11+98.92
Δ = 77° 00' 57.3" (LT)
D = 22° 55' 05.9"
L = 336.05'
T = 198.92'
R = 250.00'
SE = 04
RO = 84'

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-16/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 16

MATCHLINE SEE SHEET 7

MATCHLINE SEE SHEET 8



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

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

▨ AT GRADE CROSSING
REMOVAL BY OTHERS

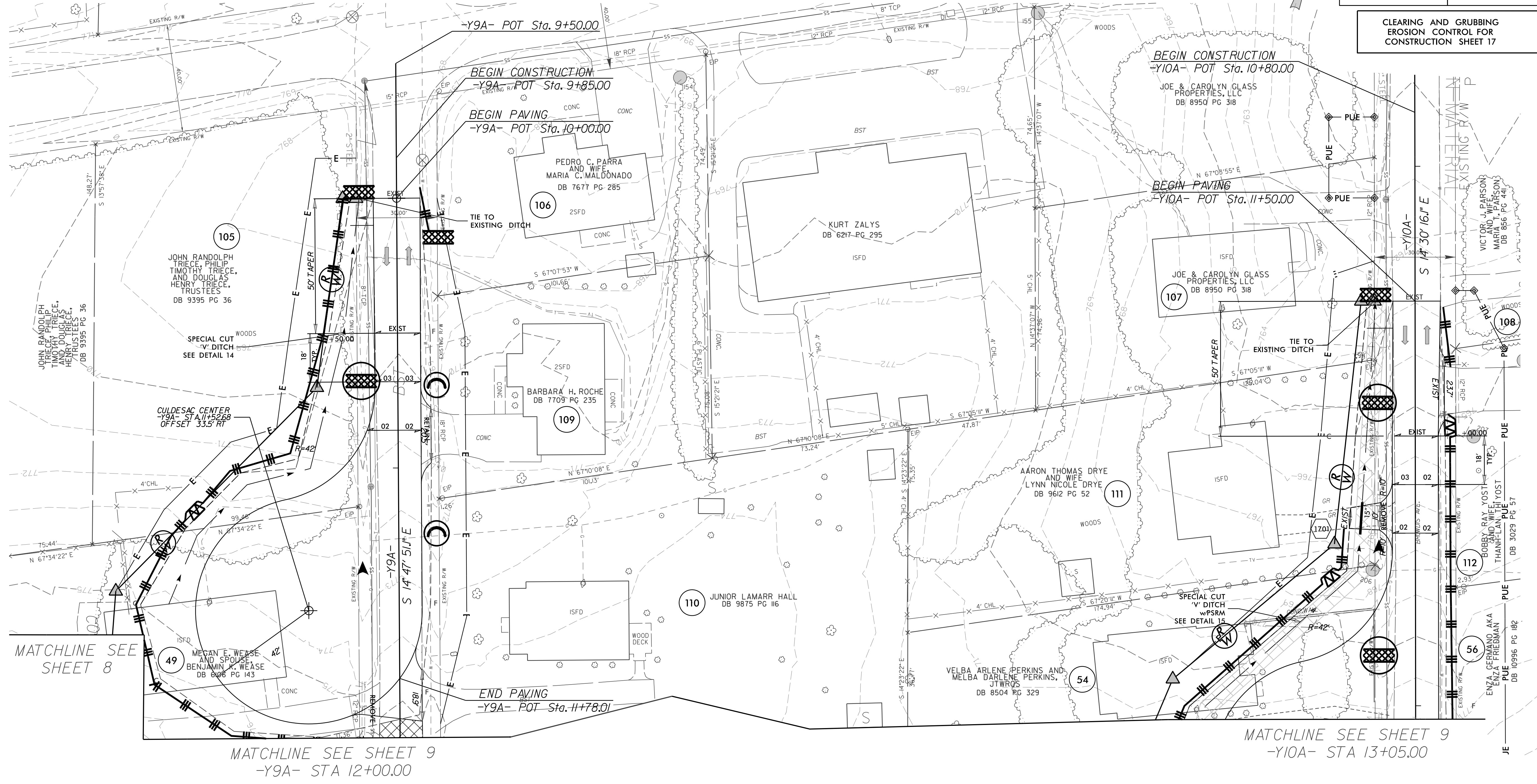
ALL GRADING AND DITCHING SHALL
NOT BE WITHIN 14' OF EXISTING RAIL

SEE SHEET 2B-4 FOR CROSSING CLOSURE DETAIL

-Y7- POT Sta. 10+00.00

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-17/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17



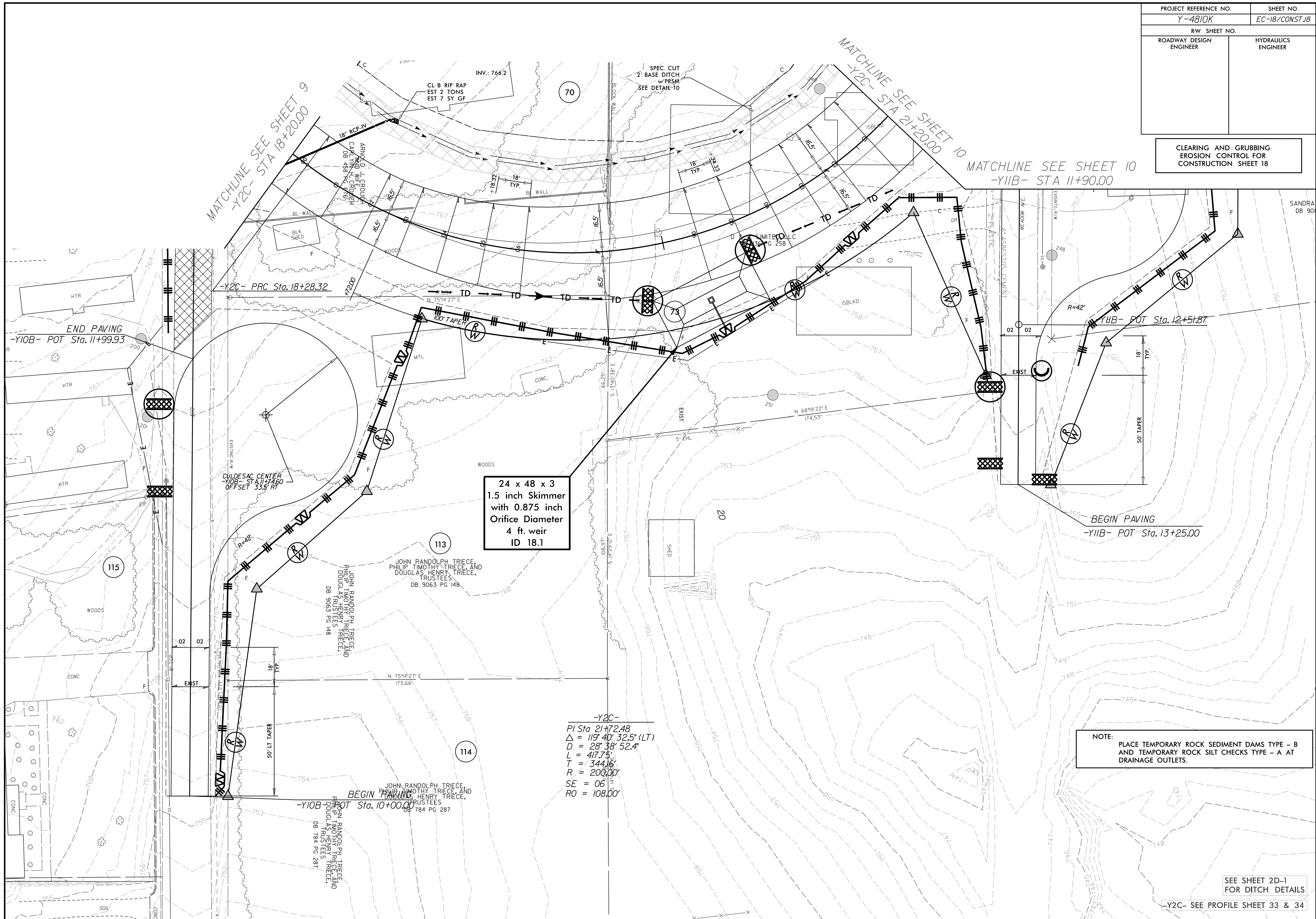
NAD 83/2011

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

SEE SHEET 2D-1
FOR DITCH DETAILS
-Y9A- SEE PROFILE SHEET 39
-Y10A- SEE PROFILE SHEET 40

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-18/CONST JB
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 18



24 x 48 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 18.1

-Y2C-
PI Sta 21+72.48
 $\Delta = 119' 40'' 32.5'' (LT)$
 $D = 28' 38'' 52.4''$
 $L = 417.75'$
 $T = 344.16'$
 $R = 200.00'$
 $SE = 06'$
 $RO = 108.00'$

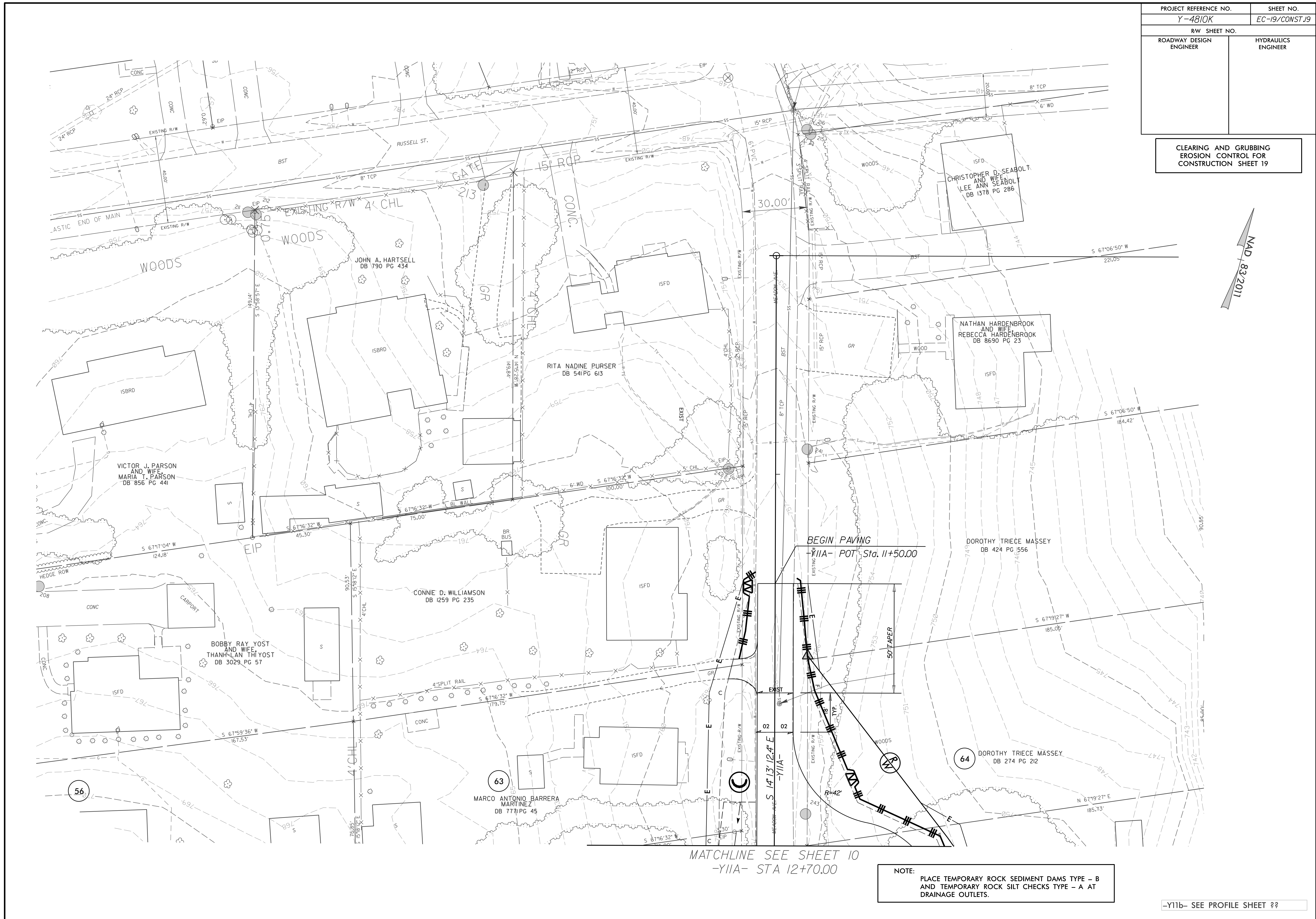
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

SEE SHEET 2D-1
FOR DITCH DETAILS

-Y2C- SEE PROFILE SHEET 33 & 34

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-19/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19



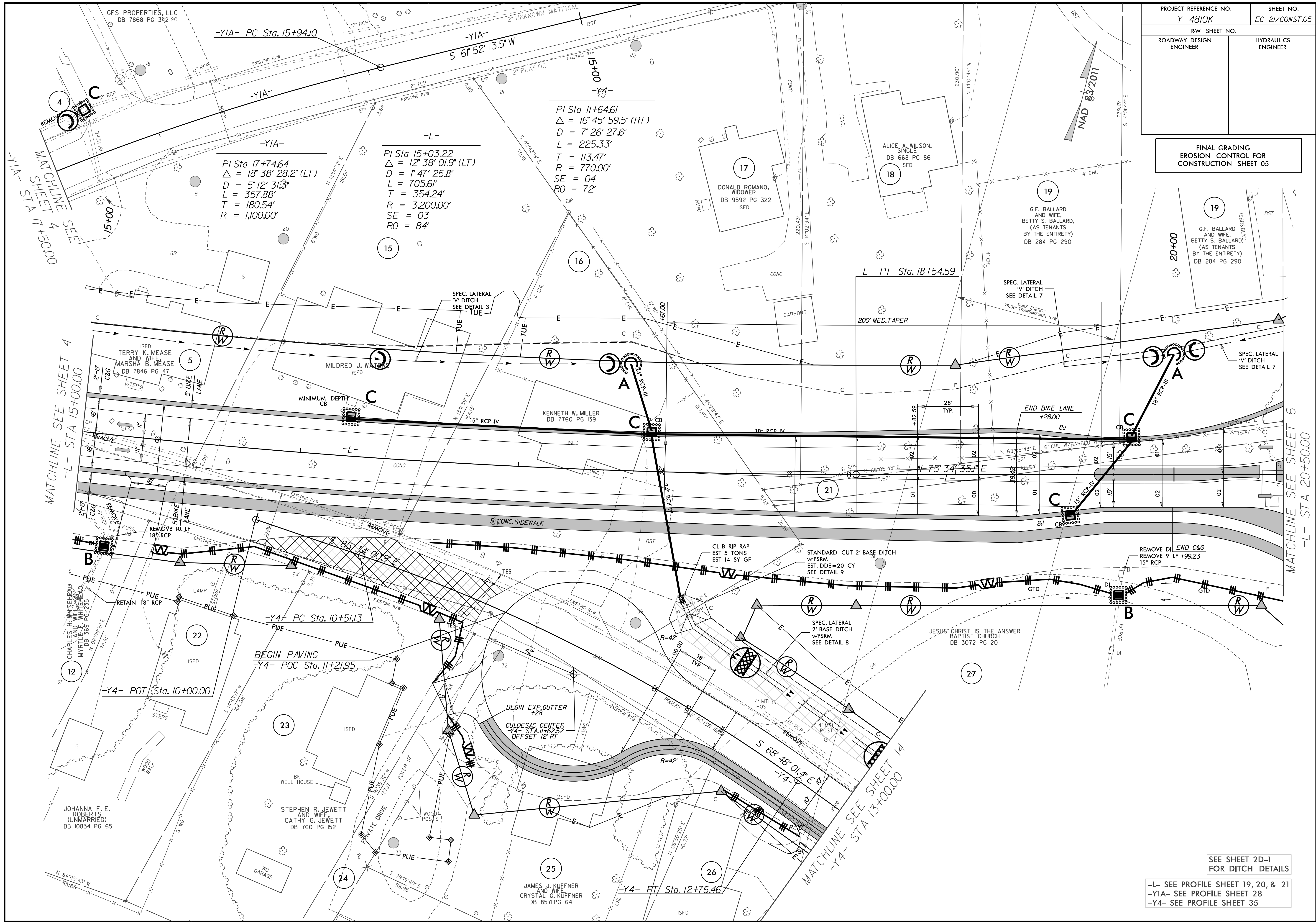
MATCHLINE SEE SHEET 10
-Y11A- STA 12+70.00

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

-Y11b- SEE PROFILE SHEET ??

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-21/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 05



-Y1A- PC Sta. 15+94.10
S 61° 52' 13.5" W

PI Sta 17+74.64
Δ = 18° 38' 28.2" (LT)
D = 5' 12' 31.3"
L = 357.88'
T = 180.54'
R = 1,100.00'

PI Sta 15+03.22
Δ = 12° 38' 01.9" (LT)
D = 1' 47' 25.8"
L = 705.61'
T = 354.24'
R = 3,200.00'
SE = 03
RO = 84'

PI Sta 11+64.61
Δ = 16° 45' 59.5" (RT)
D = 7' 26' 27.6"
L = 225.33'
T = 113.47'
R = 770.00'
SE = 04
RO = 72'

-L- PT Sta. 18+54.59

-Y4- PC Sta. 10+51.13

BEGIN PAVING
-Y4- POC Sta. 11+21.95

-Y4- POT Sta. 10+00.00

BEGIN EXP. GUTTER
-Y4- STA. 11+62.52
OFFSET 12' RT

-Y4- PT Sta. 12+76.46

MATCHLINE SEE SHEET 4
-Y1A- STA 17+50.00

MATCHLINE SEE SHEET 4
-L- STA 15+00.00

MATCHLINE SEE SHEET 14
-Y4- STA 13+00.00

MATCHLINE SEE SHEET 6
-L- STA 20+50.00

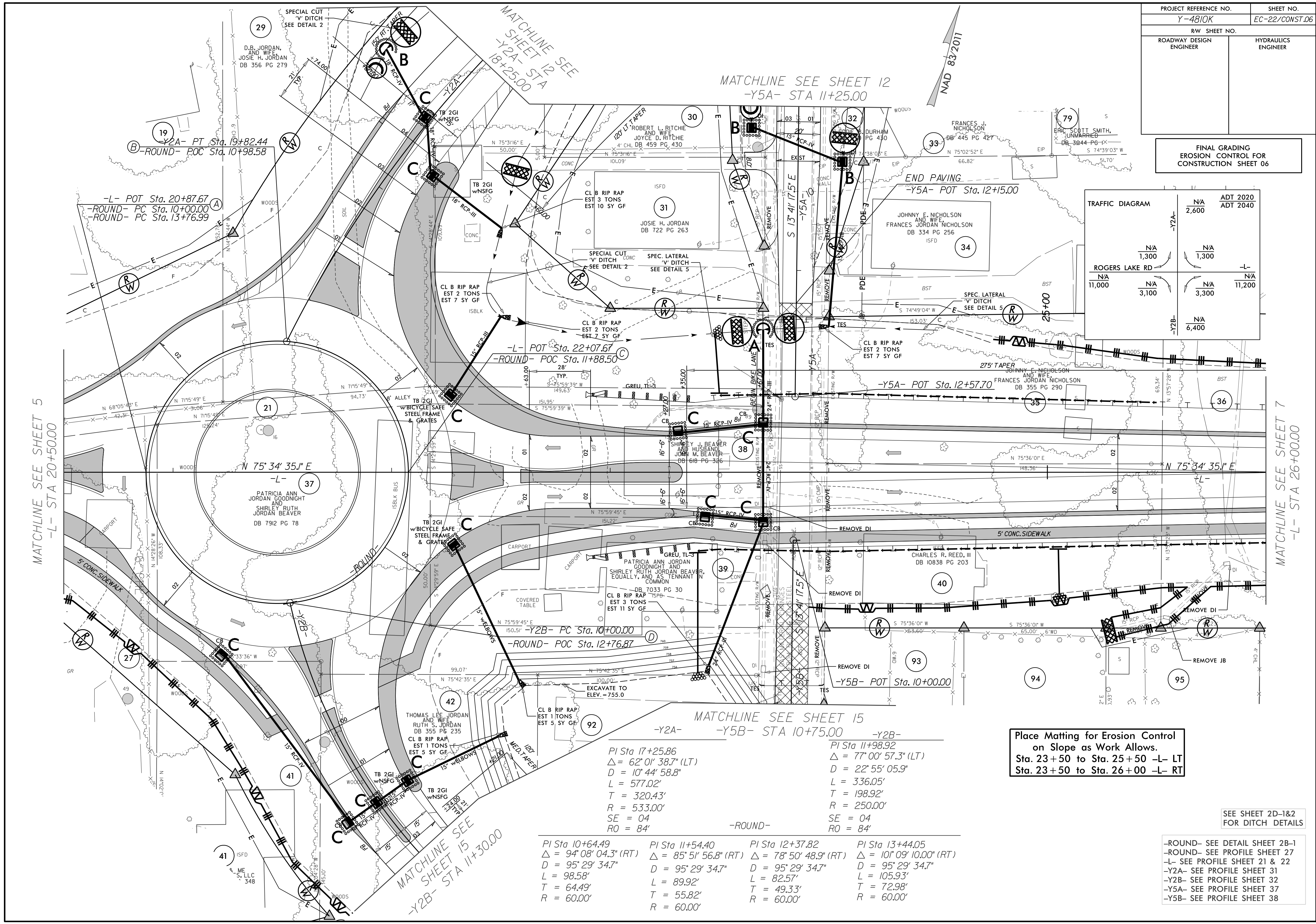
SEE SHEET 2D-1
FOR DITCH DETAILS

-L- SEE PROFILE SHEET 19, 20, & 21
-Y1A- SEE PROFILE SHEET 28
-Y4- SEE PROFILE SHEET 35

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-22/CONST.06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06

TRAFFIC DIAGRAM		ADT 2020	ADT 2040
-Y2A-	N/A	2,600	N/A
-Y2B-	N/A	6,400	N/A
-L-	N/A	11,200	N/A
-Y5A-	N/A	3,300	N/A
-Y5B-	N/A	3,100	N/A



Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 23+50 to Sta. 25+50 -L- LT
Sta. 23+50 to Sta. 26+00 -L- RT

SEE SHEET 2D-1&2
FOR DITCH DETAILS

PI Sta 10+64.49 $\Delta = 94' 08'' 04.3''$ (RT) $D = 95' 29'' 34.7''$ $L = 98.58'$ $T = 64.49'$ $R = 60.00'$	PI Sta 11+54.40 $\Delta = 85' 51'' 56.8''$ (RT) $D = 95' 29'' 34.7''$ $L = 89.92'$ $T = 55.82'$ $R = 60.00'$	PI Sta 12+37.82 $\Delta = 78' 50'' 48.9''$ (RT) $D = 95' 29'' 34.7''$ $L = 82.57'$ $T = 49.33'$ $R = 60.00'$	PI Sta 13+44.05 $\Delta = 101' 09'' 10.00''$ (RT) $D = 95' 29'' 34.7''$ $L = 105.93'$ $T = 72.98'$ $R = 60.00'$
PI Sta 17+25.86 $\Delta = 62' 01'' 38.7''$ (LT) $D = 10' 44'' 58.8''$ $L = 577.02'$ $T = 320.43'$ $R = 533.00'$ $SE = 04$ $RO = 84'$	PI Sta 11+98.92 $\Delta = 77' 00'' 57.3''$ (LT) $D = 22' 55'' 05.9''$ $L = 336.05'$ $T = 198.92'$ $R = 250.00'$ $SE = 04$ $RO = 84'$	-ROUND-	

MATCHLINE SEE SHEET 5
-L- STA 20+50.00

MATCHLINE SEE SHEET 7
-L- STA 26+00.00

MATCHLINE SEE SHEET 15
-Y2B- STA 11+30.00

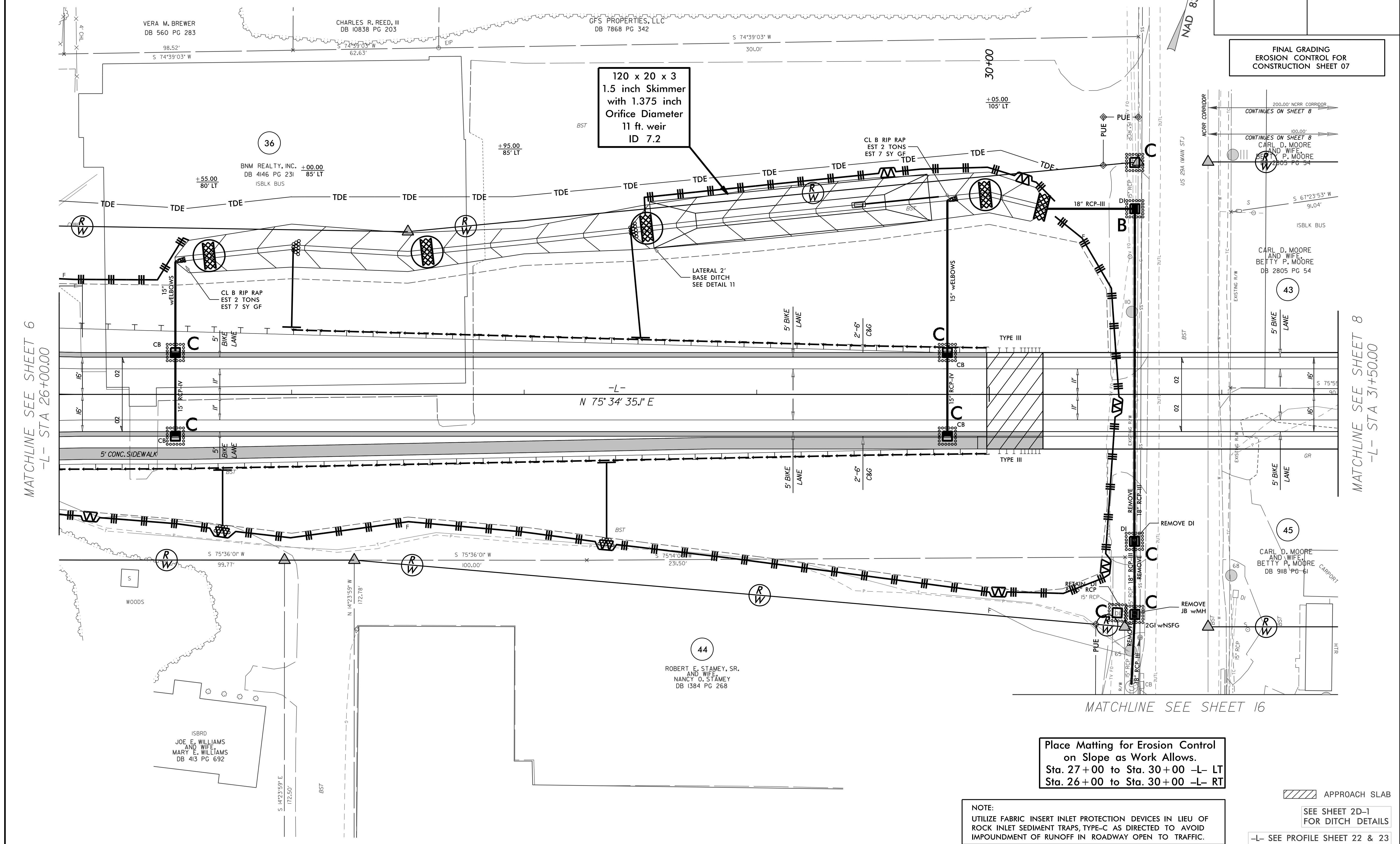
MATCHLINE SEE SHEET 15
-Y2A- -Y5B- STA 10+75.00

MATCHLINE SEE SHEET 12
-Y5A- STA 11+25.00

MATCHLINE SEE SHEET 12
-Y2A- STA 18+25.00

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-23/CONST.07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07



MATCHLINE SEE SHEET 6
-L- STA 26+00.00

MATCHLINE SEE SHEET 8
-L- STA 31+50.00

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 27+00 to Sta. 30+00 -L- LT
Sta. 26+00 to Sta. 30+00 -L- RT

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

/// APPROACH SLAB

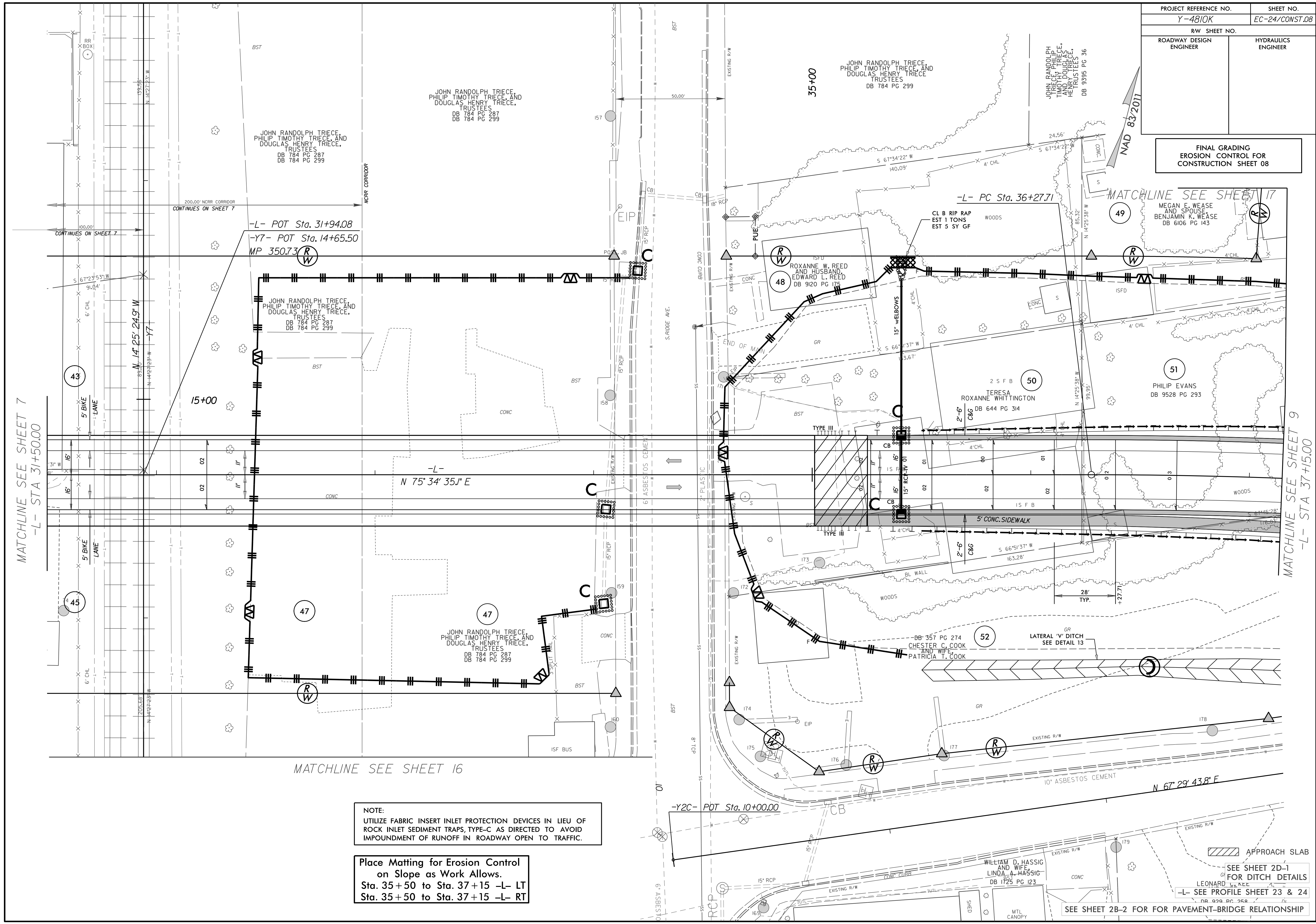
SEE SHEET 2D-1
FOR DITCH DETAILS

-L- SEE PROFILE SHEET 22 & 23

SEE SHEET 2B-2 FOR FOR PAVEMENT-BRIDGE RELATIONSHIP

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-24/CONST.08
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 08



MATCHLINE SEE SHEET 7
-L- STA 31+50.00

MATCHLINE SEE SHEET 9
-L- STA 37+15.00

MATCHLINE SEE SHEET 16

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 35+50 to Sta. 37+15 -L- LT
Sta. 35+50 to Sta. 37+15 -L- RT

APPROACH SLAB
SEE SHEET 2D-1
FOR DITCH DETAILS
LEONARD, SEE
-L- SEE PROFILE SHEET 23 & 24
DB 929 PG 258

SEE SHEET 2B-2 FOR FOR PAVEMENT-BRIDGE RELATIONSHIP

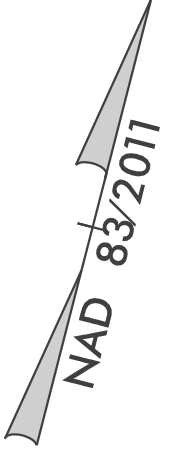
PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-25/CONST.09
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-L-
 PI Sta 37+53.74 PI Sta 42+73.11
 $\Delta = 6' 16" 23.3" (RT)$ $\Delta = 13' 57" 57.4" (LT)$
 $D = 2' 29' 28.0"$ $D = 2' 29' 28.0"$
 $L = 251.82'$ $L = 560.63'$
 $T = 126.04'$ $T = 281.71'$
 $R = 2,300.00'$ $R = 2,300.00'$
 $SE = 03$ $SE = 03$
 $RO = 84'$ $RO = 84'$

-Y2C-
 PI Sta 16+61.08
 $\Delta = 45' 03' 49.7" (RT)$
 $D = 12' 43' 56.6"$
 $L = 353.93'$
 $T = 186.69'$
 $R = 450.00'$
 $SE = 06$
 $RO = 108.00'$

25 x 51 x 3
 1.5 inch Skimmer
 with 1.0 inch
 Orifice Diameter
 5 ft. weir
 ID 9.1

Place Matting for Erosion Control
 on Slope as Work Allows.
 Sta. 37+15 to Sta. 41+50 -L- LT
 Sta. 37+15 to Sta. 41+50 -L- RT

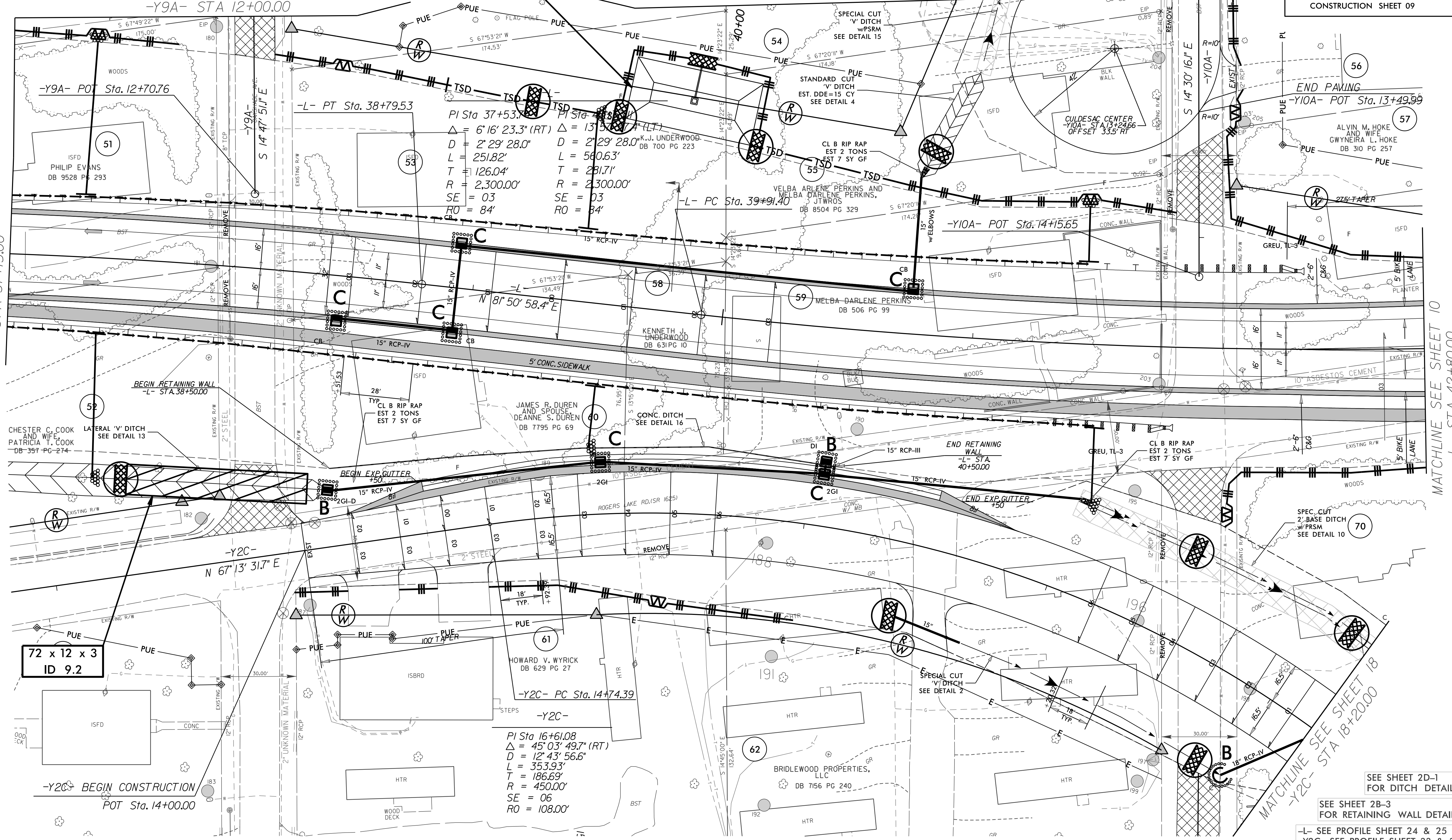


MATCHLINE SEE SHEET 17
 -Y10A- STA 13+05.00

FINAL GRADING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 09

MATCHLINE SEE SHEET 8
 -L- STA 37+15.00

MATCHLINE SEE SHEET 10
 -L- STA 42+80.00



72 x 12 x 3
 ID 9.2

PI Sta 16+61.08
 $\Delta = 45' 03' 49.7" (RT)$
 $D = 12' 43' 56.6"$
 $L = 353.93'$
 $T = 186.69'$
 $R = 450.00'$
 $SE = 06$
 $RO = 108.00'$

SEE SHEET 2D-1
 FOR DITCH DETAILS

SEE SHEET 2B-3
 FOR RETAINING WALL DETAILS

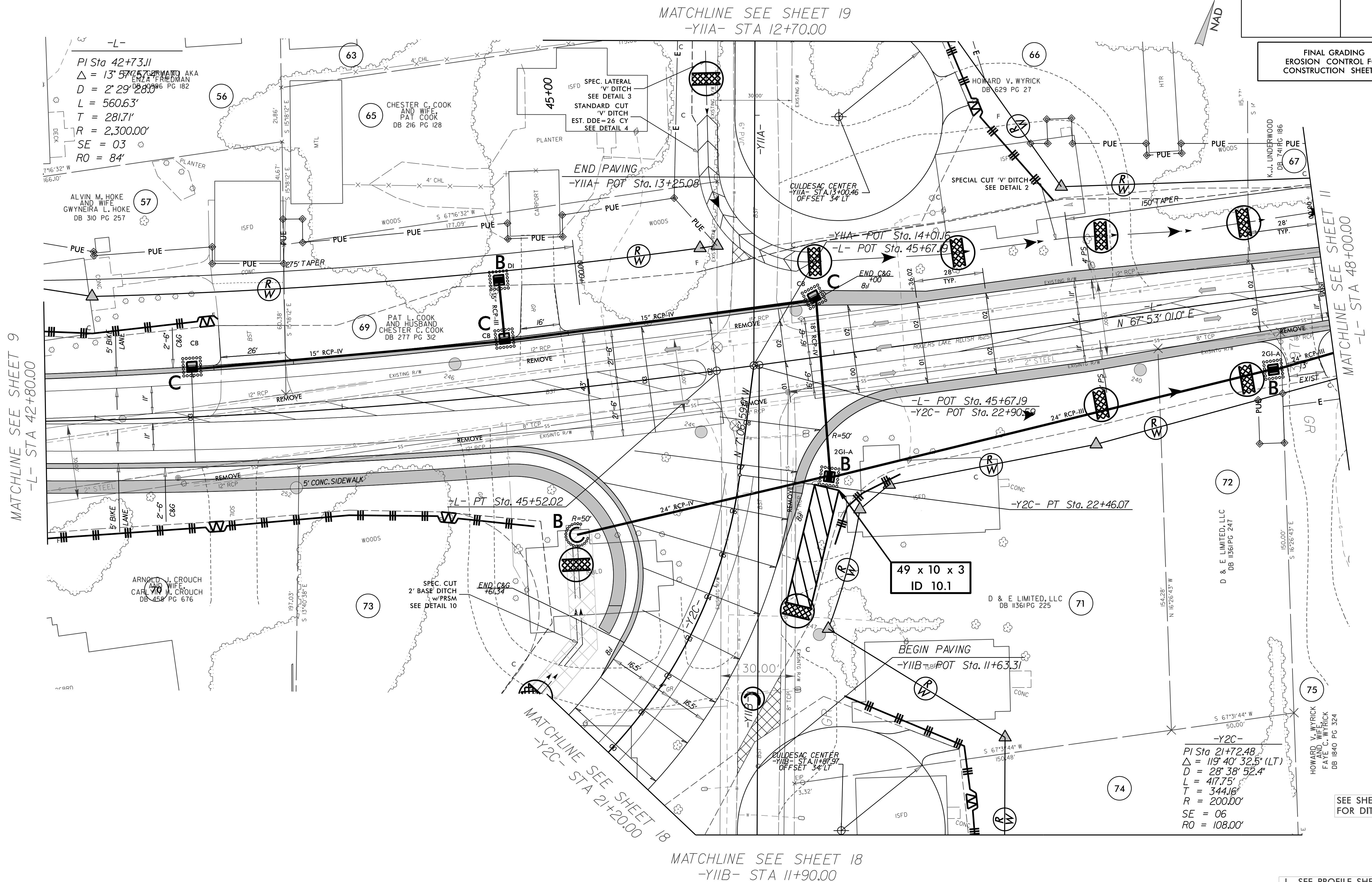
-L- SEE PROFILE SHEET 24 & 25
 -Y2C- SEE PROFILE SHEET 33 & 34
 -Y9A- SEE PROFILE SHEET 39
 -Y10A- SEE PROFILE SHEET 40

*DESIGN EXCEPTION:
LANE TAPER RATE

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-26/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

NAD 83/2011



PI Sta 42+73.11
 $\Delta = 13^\circ 57' 27.00''$
 $D = 2' 29' 28.00''$
 $L = 560.63'$
 $T = 281.71'$
 $R = 2,300.00'$
 $SE = 03$
 $RO = 84'$

ALVIN M. HOKE
 AND WIFE
 GWYNETH L. HOKE
 DB 310 PG 257

CHESTER C. COOK
 AND WIFE
 PAT COOK
 DB 216 PG 128

PAT L. COOK
 AND HUSBAND
 CHESTER C. COOK
 DB 277 PG 312

ARNOLD J. CROUCH
 AND WIFE
 CAROLYN J. CROUCH
 DB 458 PG 676

49 x 10 x 3
 ID 10.1

D & E LIMITED, LLC
 DB 11361 PG 225

PI Sta 21+72.48
 $\Delta = 119^\circ 40' 32.5''$ (LT)
 $D = 28' 38' 52.4''$
 $L = 417.75'$
 $T = 344.16'$
 $R = 200.00'$
 $SE = 06$
 $RO = 108.00'$

HOWARD V. WYRICK
 FA I.E.C. WYRICK
 DB 1840 PG 324

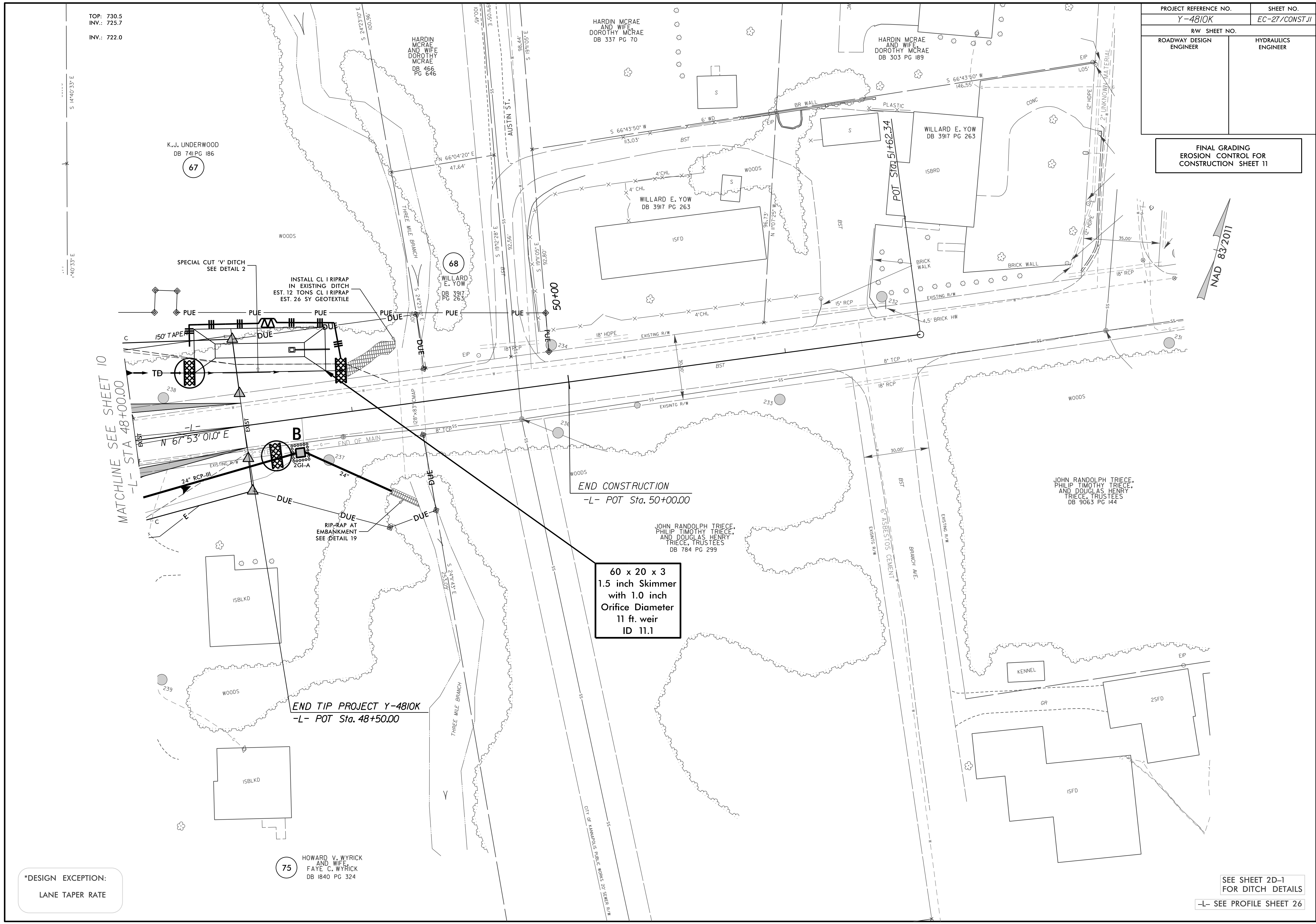
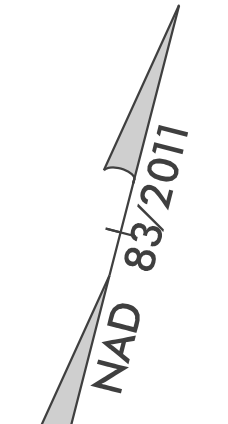
SEE SHEET 2D-1
 FOR DITCH DETAILS

-L- SEE PROFILE SHEET 25 & 26
 -Y2C- SEE PROFILE SHEET 35
 -Y11A- SEE PROFILE SHEET 41
 -Y11B- SEE PROFILE SHEET 42

TOP: 730.5
 INV.: 725.7
 INV.: 722.0

PROJECT REFERENCE NO. Y-4810K	SHEET NO. EC-27/CONST II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**FINAL GRADING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 11**



MATCHLINE SEE SHEET 10
 -L- STA 48+00.00

END CONSTRUCTION
 -L- POT Sta. 50+00.00

END TIP PROJECT Y-4810K
 -L- POT Sta. 48+50.00

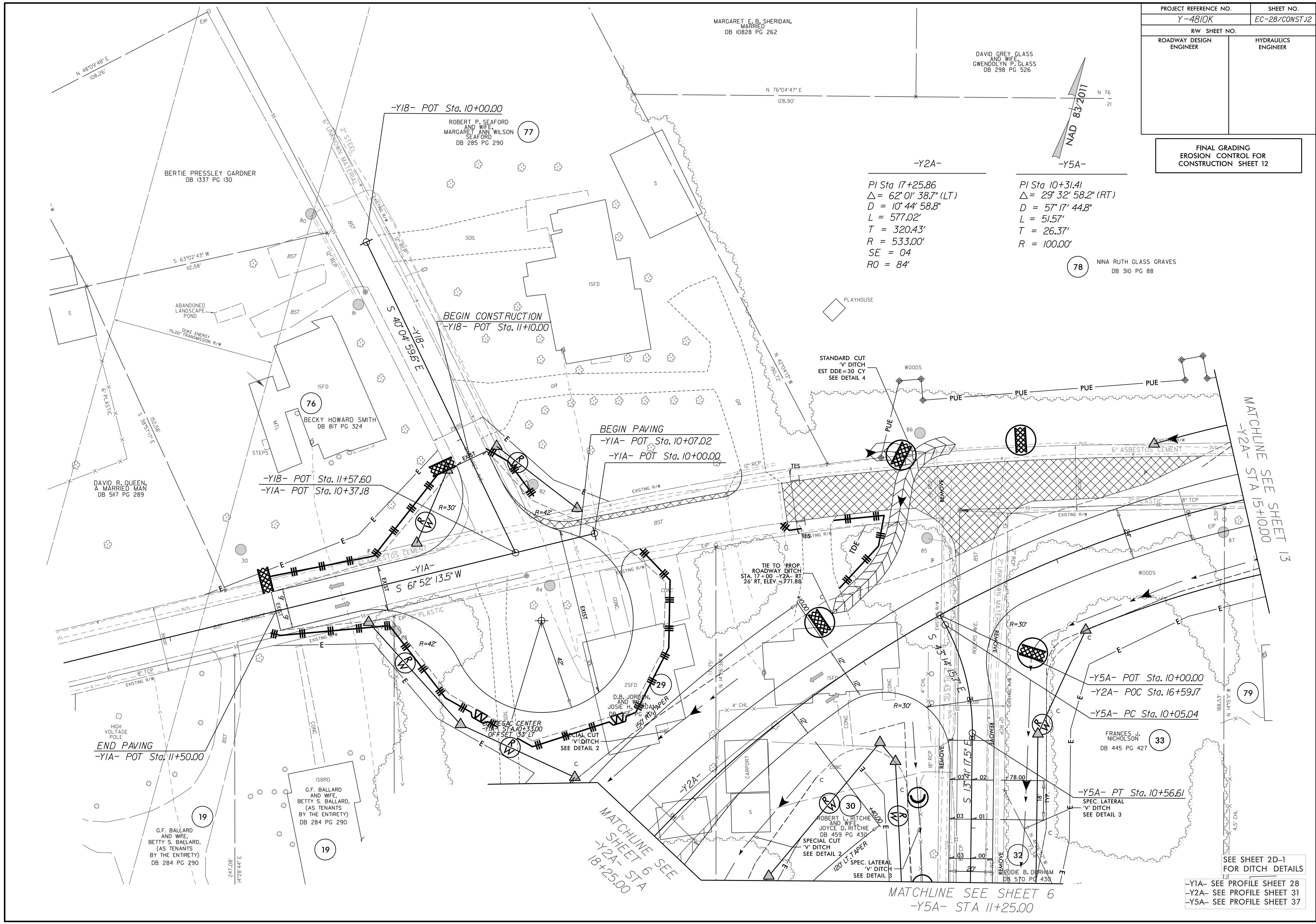
**60 x 20 x 3
 1.5 inch Skimmer
 with 1.0 inch
 Orifice Diameter
 11 ft. weir
 ID 11.1**

***DESIGN EXCEPTION:**
 LANE TAPER RATE

SEE SHEET 2D-1
 FOR DITCH DETAILS
 -L- SEE PROFILE SHEET 26

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-28/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12



MARGARET E. B. SHERIDAN,
MARRIED
DB 10828 PG 262

DAVID GREY GLASS
AND WIFE
GWENDOLYN P. GLASS
DB 298 PG 526



-Y2A-
PI Sta 17+25.86
 $\Delta = 62^{\circ} 01' 38.7''$ (LT)
 $D = 10^{\circ} 44' 58.8''$
 $L = 577.02'$
 $T = 320.43'$
 $R = 533.00'$
 $SE = 04$
 $RO = 84'$

-Y5A-
PI Sta 10+31.41
 $\Delta = 29^{\circ} 32' 58.2''$ (RT)
 $D = 57^{\circ} 17' 44.8''$
 $L = 51.57'$
 $T = 26.37'$
 $R = 100.00'$

78 NINA RUTH GLASS GRAVES
DB 310 PG 88

BERTIE PRESSLEY GARDNER
DB 1337 PG 130

ROBERT P. SEAFORD
AND WIFE
MARGARET ANN WILSON
SEAFORD
DB 285 PG 290

BECKY HOWARD SMITH
DB 817 PG 324

DAVID R. QUEEN,
A MARRIED MAN
DB 5117 PG 289

-Y18- POT Sta. 11+57.60
-Y1A- POT Sta. 10+37.18

BEGIN PAVING
-Y1A- POT Sta. 10+07.02
-Y1A- POT Sta. 10+00.00

END PAVING
-Y1A- POT Sta. 11+50.00

G.F. BALLARD
AND WIFE,
BETTY S. BALLARD,
(AS TENANTS
BY THE ENTIRETY)
DB 284 PG 290

G.F. BALLARD
AND WIFE,
BETTY S. BALLARD,
(AS TENANTS
BY THE ENTIRETY)
DB 284 PG 290

ROBERT L. MITCHELL
AND WIFE
JOYCE D. MITCHELL
DB 459 PG 430
SPECIAL CUT
'V' DITCH
SEE DETAIL 2

FRANCES J.
NICHOLSON
DB 445 PG 427

-Y5A- POT Sta. 10+00.00
-Y2A- POC Sta. 16+59.17
-Y5A- PC Sta. 10+05.04

-Y5A- PT Sta. 10+56.61
SPEC. LATERAL
'V' DITCH
SEE DETAIL 3

SEE SHEET 2D-1
FOR DITCH DETAILS

-Y1A- SEE PROFILE SHEET 28
-Y2A- SEE PROFILE SHEET 31
-Y5A- SEE PROFILE SHEET 37

MATCHLINE SEE
SHEET 6
-Y2A- STA
18+25.00

MATCHLINE SEE SHEET 6
-Y5A- STA 11+25.00

MATCHLINE SEE SHEET 13
-Y2A- STA 15+10.00

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-29/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

TOP: 786.5
INV.: 784.2
TOP: 783.3
INV.: 780.8
INV.: 780.3 Y. GLASS
IF E.
WRENDAULIN P. GLASS
DB 298 PG 526

RICHARD THOMAS ABSHER
AND WIFE
JANET WILSON ABSHER
DB 1713 PG 92

CITY OF KANNAPOLIS,
A NORTH CAROLINA MUNICIPAL
CORPORATION
DB 10233 PG 345
80
ISM BUS

NAD 83/2011

-Y2A-
PI Sta 13+21.80
 $\Delta = 3^{\circ}19'56.5"$ (RT)
 $D = 1^{\circ}59'30.8"$
 $L = 167.30'$
 $T = 83.67'$
 $R = 2,876.47'$

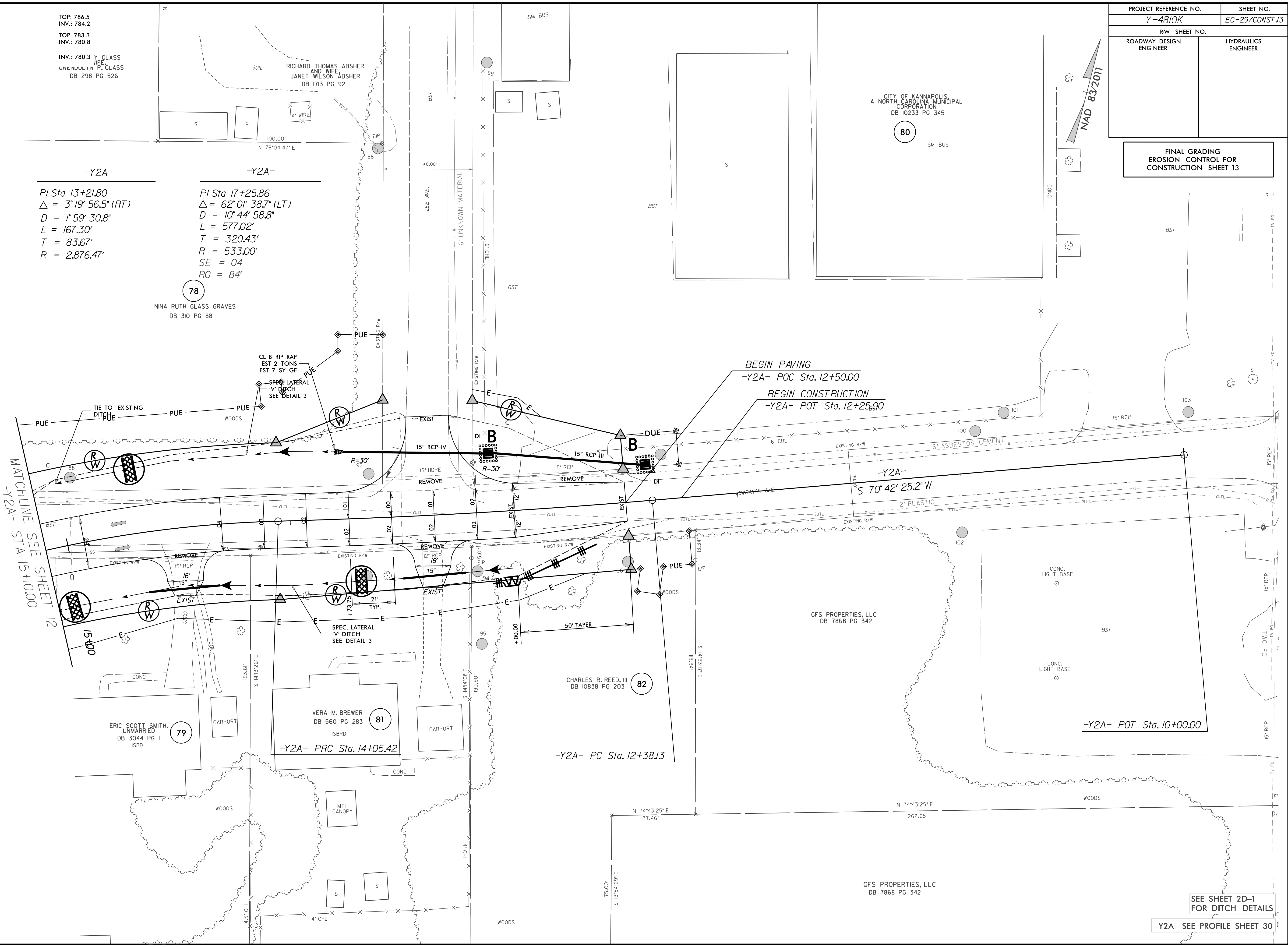
-Y2A-
PI Sta 17+25.86
 $\Delta = 62^{\circ}01'38.7"$ (LT)
 $D = 10^{\circ}44'58.8"$
 $L = 577.02'$
 $T = 320.43'$
 $R = 533.00'$
 $SE = 04'$
 $RO = 84'$

78
NINA RUTH GLASS GRAVES
DB 310 PG 88

CL B RIP RAP
EST 2 TONS
EST 7 SY GF
SPEC. LATERAL
V DITCH
SEE DETAIL 3

BEGIN PAVING
-Y2A- POC Sta. 12+50.00
BEGIN CONSTRUCTION
-Y2A- POT Sta. 12+25.00

MATCHLINE SEE SHEET 12
-Y2A- STA 15+10.00



ERIC SCOTT SMITH,
UNMARRIED
DB 3044 PG 1
ISBD
79

VERA M. BREWER
DB 560 PG 283
ISBRD
81

CHARLES R. REED, III
DB 10838 PG 203
82

GFS PROPERTIES, LLC
DB 7868 PG 342

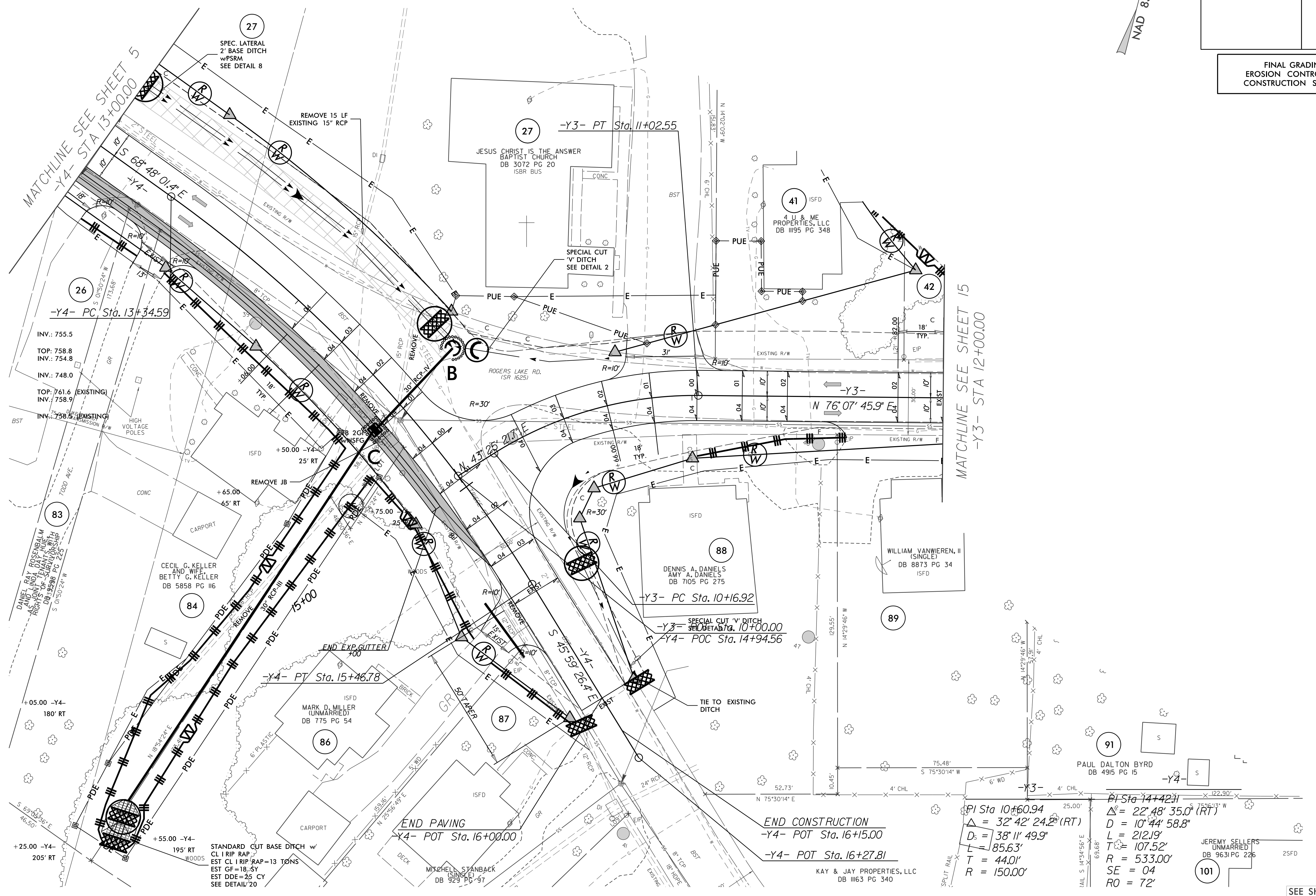
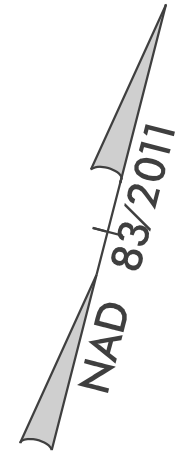
GFS PROPERTIES, LLC
DB 7868 PG 342

SEE SHEET 2D-1
FOR DITCH DETAILS

-Y2A- SEE PROFILE SHEET 30

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-30/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14



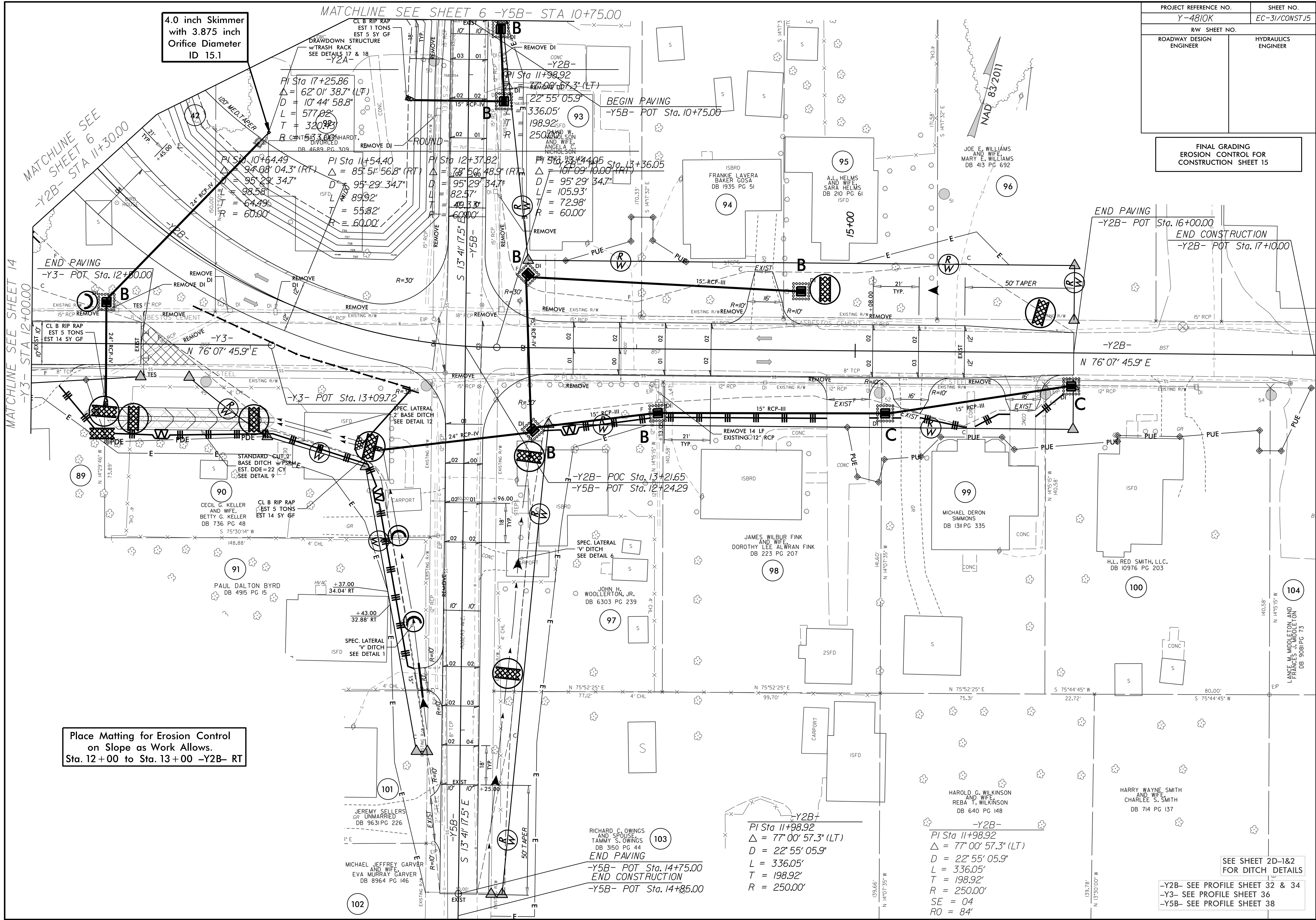
PI Sta 10+60.94 $\Delta = 32^{\circ} 42' 24.2''$ (RT) $D_s = 38' 11' 49.9''$ $L = 85.63'$ $T = 44.01'$ $R = 150.00'$	PI Sta 14+42.11 $\Delta = 22^{\circ} 48' 35.0''$ (RT) $D = 10^{\circ} 44' 58.8''$ $L = 212.19'$ $T = 107.52'$ $R = 533.00'$ $SE = 04$ $RO = 72'$
---	---

SEE SHEET 2D-1
FOR DITCH DETAILS

-Y4- SEE PROFILE SHEET 35 & 36
-Y3- SEE PROFILE SHEET 36

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-31/CONST15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15



4.0 inch Skimmer
with 3.875 inch
Orifice Diameter
ID 15.1

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 12+00 to Sta. 13+00 -Y2B- RT

MATCHLINE SEE SHEET 14
-Y3- STA 12+00.00

MATCHLINE SEE SHEET 6 -Y5B- STA 10+75.00

END PAVING
-Y2B- POT Sta. 16+00.00
END CONSTRUCTION
-Y2B- POT Sta. 17+10.00

SEE SHEET 2D-1&2
FOR DITCH DETAILS

-Y2B- SEE PROFILE SHEET 32 & 34
-Y3- SEE PROFILE SHEET 36
-Y5B- SEE PROFILE SHEET 38

PI Sta 17+25.86
 $\Delta = 62^{\circ} 01' 38.7"$ (LT)
 $D = 10' 44' 58.8"$
 $L = 577.02'$
 $T = 320.93'$
 $R = 60.00'$

PI Sta 11+98.92
 $\Delta = 77^{\circ} 00' 57.3"$ (LT)
 $D = 22' 55' 05.9"$
 $L = 198.92'$
 $T = 250.00'$
 $R = 250.00'$

PI Sta 11+98.92
 $\Delta = 77^{\circ} 00' 57.3"$ (LT)
 $D = 22' 55' 05.9"$
 $L = 198.92'$
 $T = 250.00'$
 $R = 250.00'$

PI Sta 11+98.92
 $\Delta = 77^{\circ} 00' 57.3"$ (LT)
 $D = 22' 55' 05.9"$
 $L = 198.92'$
 $T = 250.00'$
 $R = 250.00'$

END PAVING
-Y5B- POT Sta. 14+75.00
END CONSTRUCTION
-Y5B- POT Sta. 14+85.00

-Y2B- POC Sta. 13+21.65
-Y5B- POT Sta. 12+24.29

END PAVING
-Y3- POT Sta. 12+00.00

-Y3- POT Sta. 13+09.72

CECIL G. KELLER
AND WIFE,
BETTY G. KELLER
DB 736 PG 48
S 75°30'14" W
148.88'

PAUL DALTON BYRD
DB 4915 PG 15

JEREMY SELLERS
UNMARRIED
DB 9631 PG 226

MICHAEL JEFFREY GARVER
AND WIFE,
EVA MURRAY GARVER
DB 8964 PG 146

JOHN H.
WOOLLERTON, JR.
DB 6303 PG 239

JAMES WILBUR FINK
AND WIFE,
DOROTHY LEE ALWRAN FINK
DB 223 PG 207

MICHAEL DERON
SIMMONS
DB 1311 PG 335

H.L. RED SMITH, LLC.
DB 10976 PG 203

HARRY WAYNE SMITH
AND WIFE,
CHARLEE S. SMITH
DB 714 PG 137

LANCE M. MIDDLETON AND
FRANCES J. MIDDLETON
DB 9081 PG 73

FRANKIE LAVERA
BAKER GOSA
DB 1935 PG 51

A.L. HELMS
AND WIFE,
SARA HELMS
DB 210 PG 61
ISFD

JOE E. WILLIAMS
AND WIFE,
MARY E. WILLIAMS
DB 413 PG 692

STANDARD CUT-2
BASE DITCH
EST. DDE = 22' CY
SEE DETAIL 9

SPEC. LATERAL
'V' DITCH
SEE DETAIL 6

SPEC. LATERAL
'V' DITCH
SEE DETAIL 1

SPEC. LATERAL
'V' DITCH
SEE DETAIL 6

CL B RIP RAP
EST 5 TONS
EST 14 SY GF

CL B RIP RAP
EST 5 TONS
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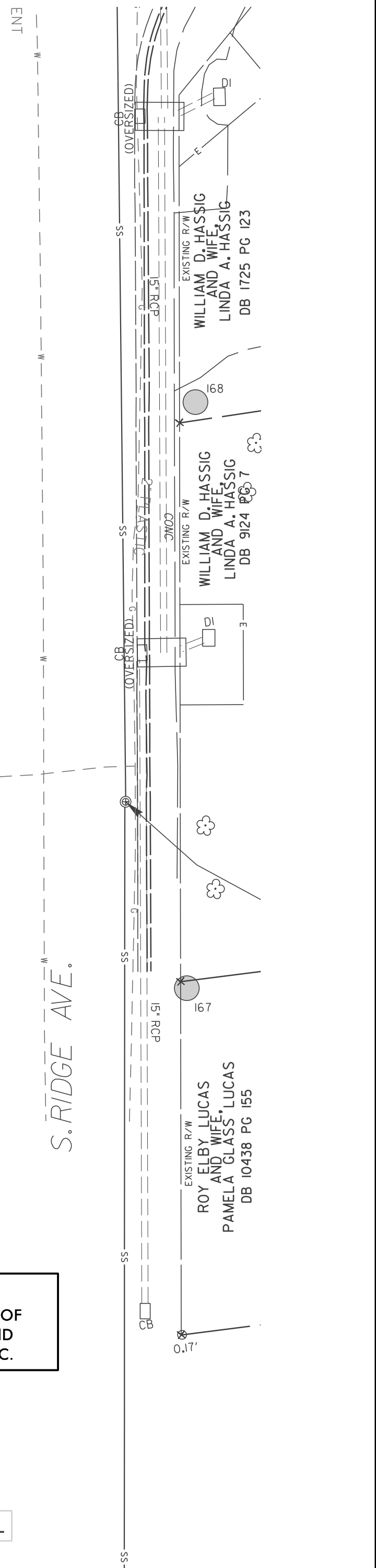
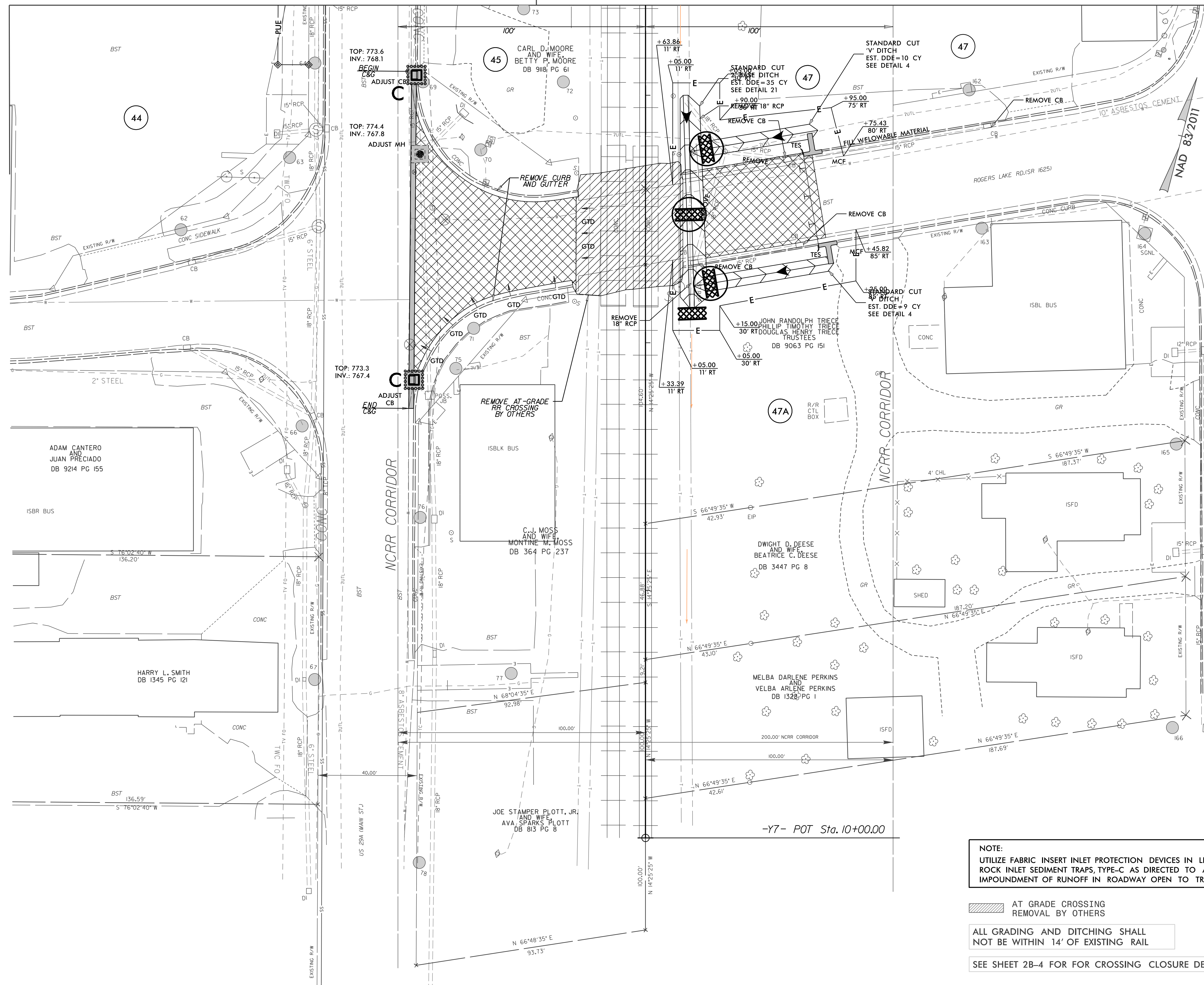
REMOVE EXISTING R/W

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-32/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 16

MATCHLINE SEE SHEET 7

MATCHLINE SEE SHEET 8



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

AT GRADE CROSSING
REMOVAL BY OTHERS

ALL GRADING AND DITCHING SHALL
NOT BE WITHIN 14' OF EXISTING RAIL

SEE SHEET 2B-4 FOR CROSSING CLOSURE DETAIL

NAD 83/2011

-Y7- POT Sta. 10+00.00

NCRR CORRIDOR

NCRR CORRIDOR

S. RIDGE AVE.

ADAM CANTERO
AND
JUAN PRECIADO
DB 924 PG 155

HARRY L. SMITH
DB 1345 PG 121

JOE STAMPER PLOTT, JR.
AND WIFE
AVA SPARKS PLOTT
DB 913 PG 8

C. J. MOSS
AND WIFE
MONTINE W. MOSS
DB 364 PG 237

DWIGHT D. DEESE
AND WIFE
BEATRICE C. DEESE
DB 3447 PG 8

MELBA DARLENE PERKINS
AND
VELBA ARLENE PERKINS
DB 1328 PG 1

JOHN RANDOLPH TRICE
PHILLIP TIMOTHY TRICE
30' RT DOUGLAS HENRY TRICE
TRUSTEES
DB 9063 PG 151

WILLIAM D. HASSIG
AND WIFE
LINDA A. HASSIG
DB 1725 PG 123

WILLIAM D. HASSIG
AND WIFE
LINDA A. HASSIG
DB 924 PG 7

ROY W. LUCAS
AND WIFE
PAMELA G. LUCAS
DB 10438 PG 155

TOP: 773.6
INV.: 768.1
BEGIN
C&G
ADJUST CB

TOP: 774.4
INV.: 767.8
ADJUST MH

TOP: 773.3
INV.: 767.4
END
C&G
ADJUST CB

STANDARD CUT
'V' DITCH
EST. DDE=10 CY
SEE DETAIL 4

STANDARD CUT
2-PHASE DITCH
EST. DDE=35 CY
SEE DETAIL 21

STANDARD CUT
'V' DITCH
EST. DDE=9 CY
SEE DETAIL 4

REMOVE CURB
AND GUTTER

REMOVE AT-GRADE
RR CROSSING
BY OTHERS

REMOVE CB

REMOVE CB

REMOVE
18" RCP

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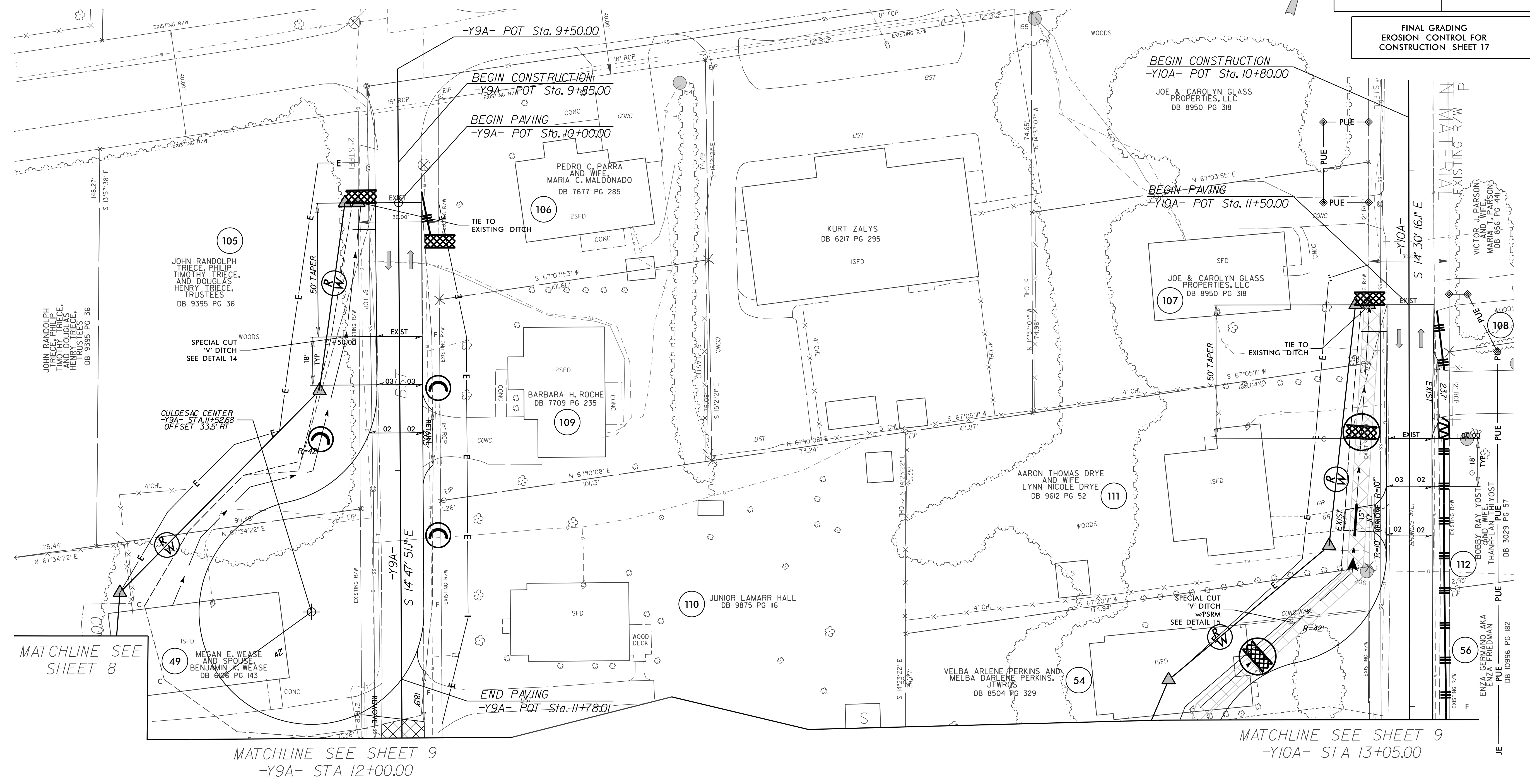
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PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-33/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2011

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

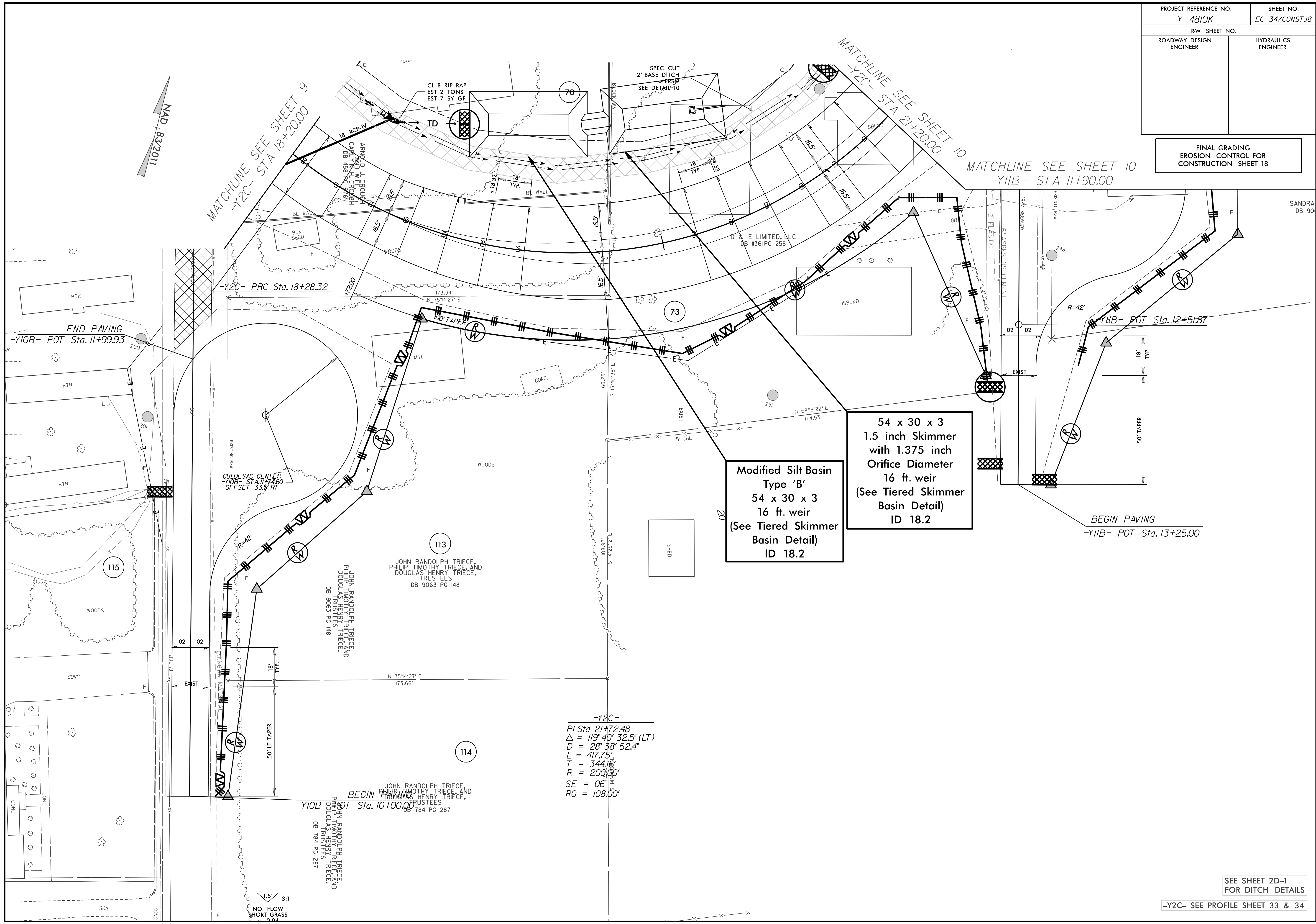


SEE SHEET 2D-1 FOR DITCH DETAILS

-Y9A- SEE PROFILE SHEET 39
-Y10A- SEE PROFILE SHEET 40

PROJECT REFERENCE NO. Y-4810K	SHEET NO. EC-34/CONST.18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 18



Modified Silt Basin
Type 'B'
54 x 30 x 3
16 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 18.2

54 x 30 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
16 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 18.2

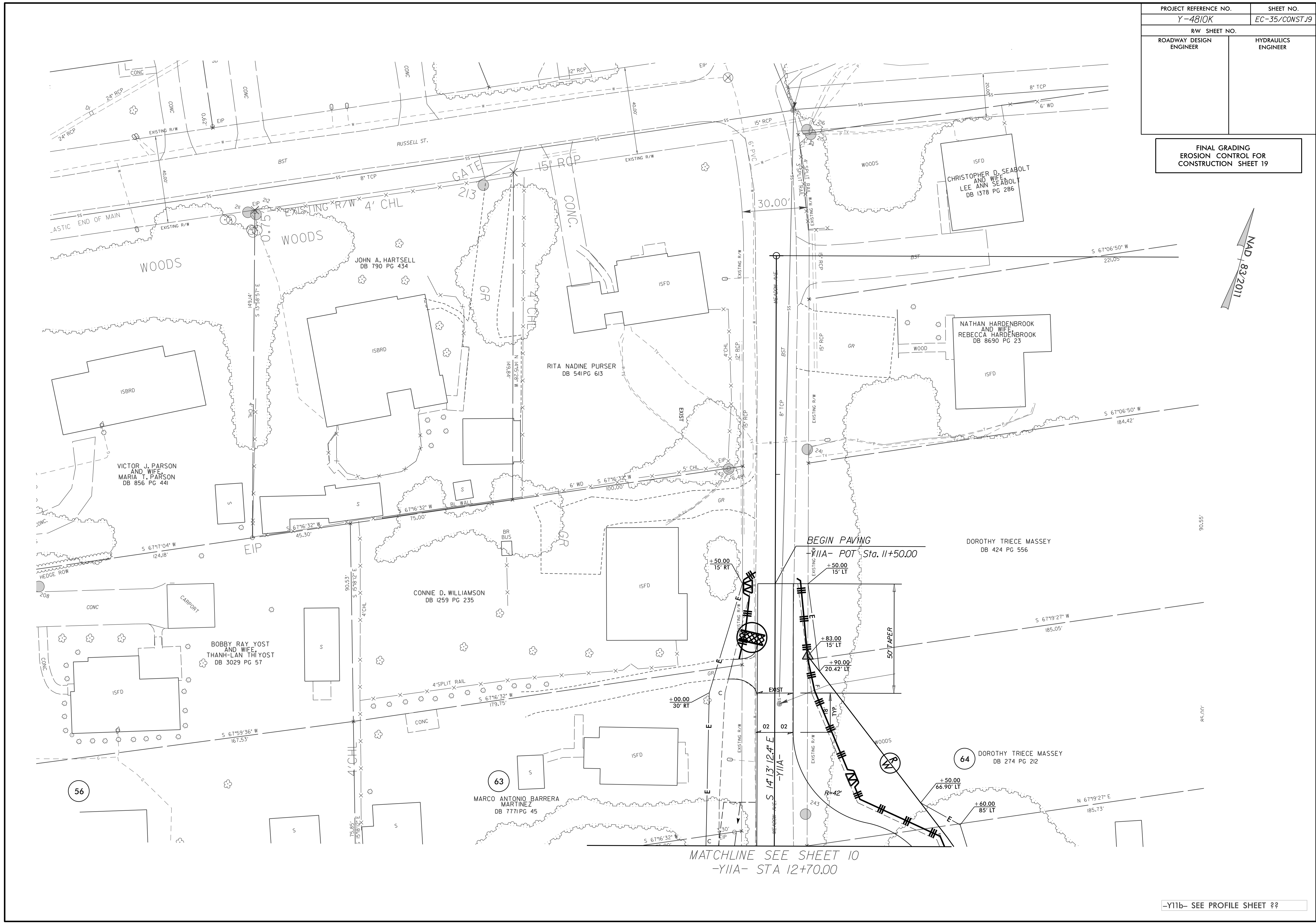
-Y2C-
PI Sta 21+72.48
 $\Delta = 119' 40" 32.5"$ (LT)
 $D = 28' 38" 52.4"$
 $L = 417.75'$
 $T = 344.16'$
 $R = 200.00'$
 $SE = 06'$
 $RO = 108.00'$

SEE SHEET 2D-1
FOR DITCH DETAILS

-Y2C- SEE PROFILE SHEET 33 & 34

PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	EC-35/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 19



MATCHLINE SEE SHEET 10
-Y11A- STA 12+70.00

-Y11b- SEE PROFILE SHEET ??