

TIP PROJECT: B-4298

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

VANCE COUNTY

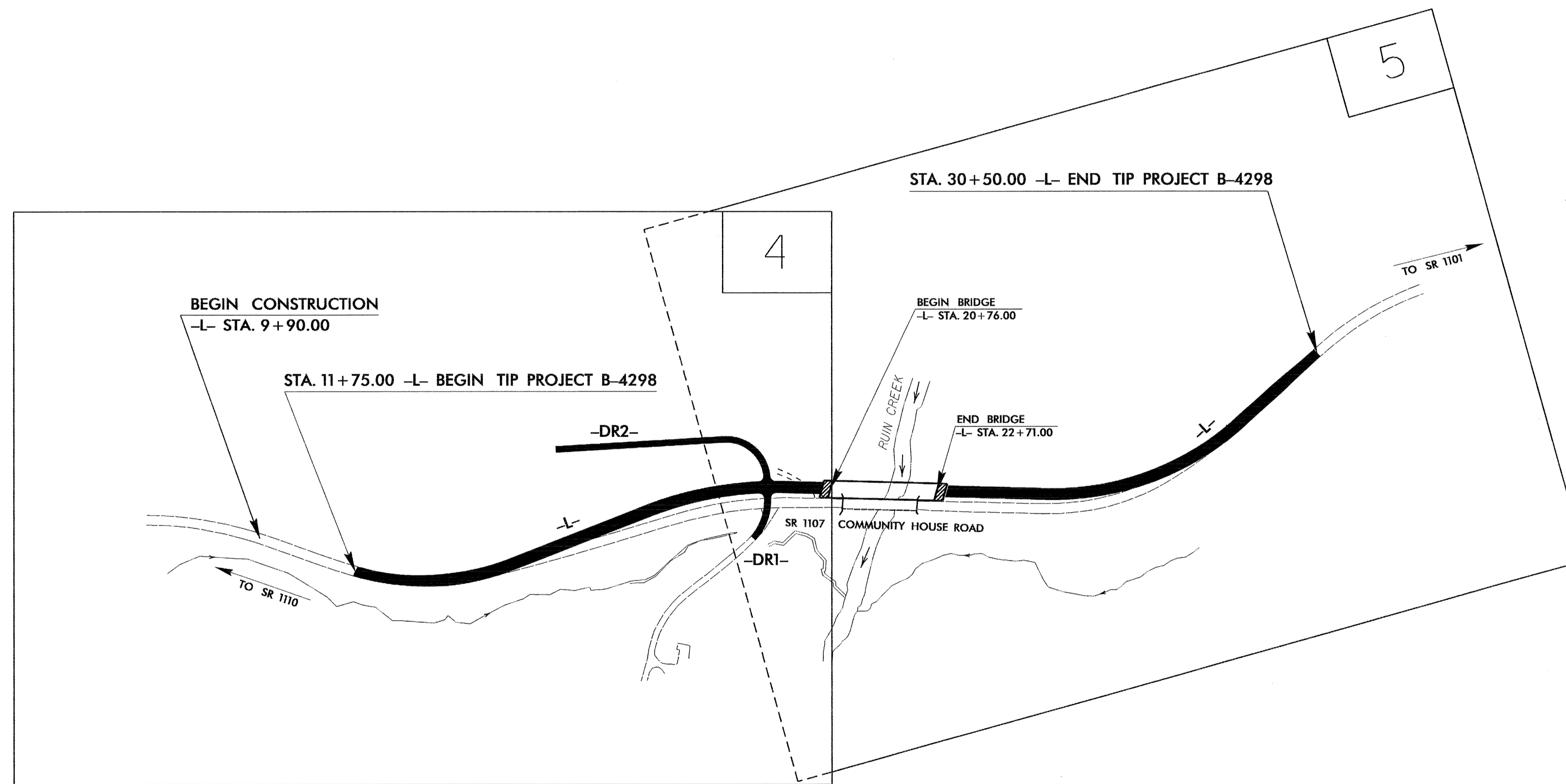
**LOCATION: BRIDGE NO. 3 OVER RUIN CREEK AND APPROACHES
ON SR 1107 (COMMUNITY HOUSE ROAD)**

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4298	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation.....	
1630.03	Temporary Silt Ditch.....	
1630.05	Temporary Diversion.....	
1605.01	Temporary Silt Fence.....	
1606.01	Special Sediment Control Fence.....	
1622.01	Temporary Berms and Slope Drains.....	
1630.01	Riser Basin.....	
1630.02	Silt Basin Type B.....	
1633.01	Temporary Rock Silt Check Type-A.....	
	Temporary Rock Silt Check Type-B.....	
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.....	
	Rock Inlet Sediment Trap:	
1632.01	Type A.....	
1632.02	Type B.....	
1632.03	Type C.....	
	Skimmer Basin.....	
	Tiered Skimmer Basin.....	



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

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**

**ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST
ON THIS PROJECT**

*Refer To E. C. Special Provisions
for Special Considerations.*

GRAPHIC SCALE

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Prepared in the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2006 STANDARD SPECIFICATIONS

Roadway Standard Drawings

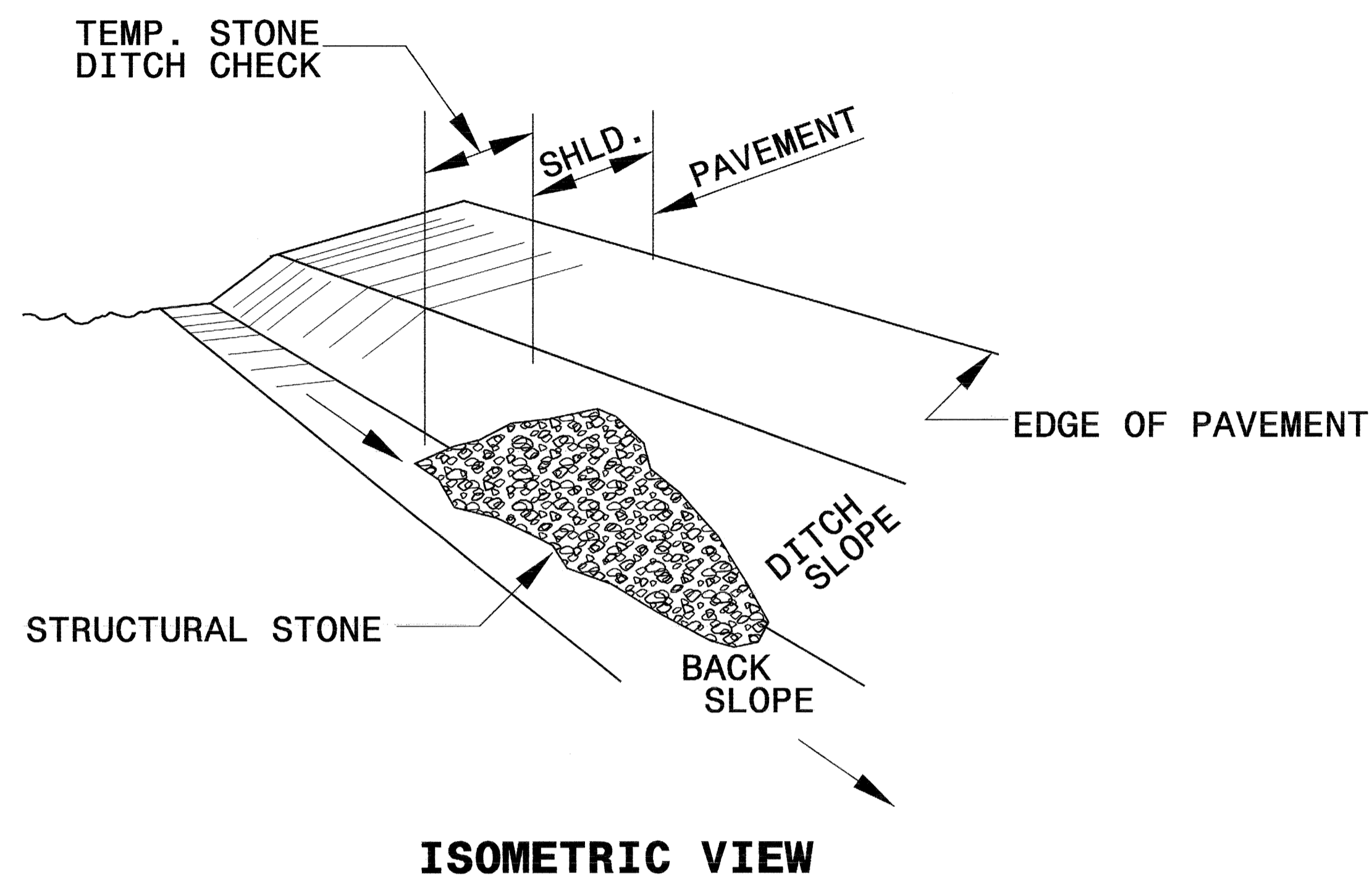
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
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	1634.02 Temporary Rock Sediment Dam Type B
1630.02 Silt Basin Type B	

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PROJECT REFERENCE NO. B-4298	SHEET NO. EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

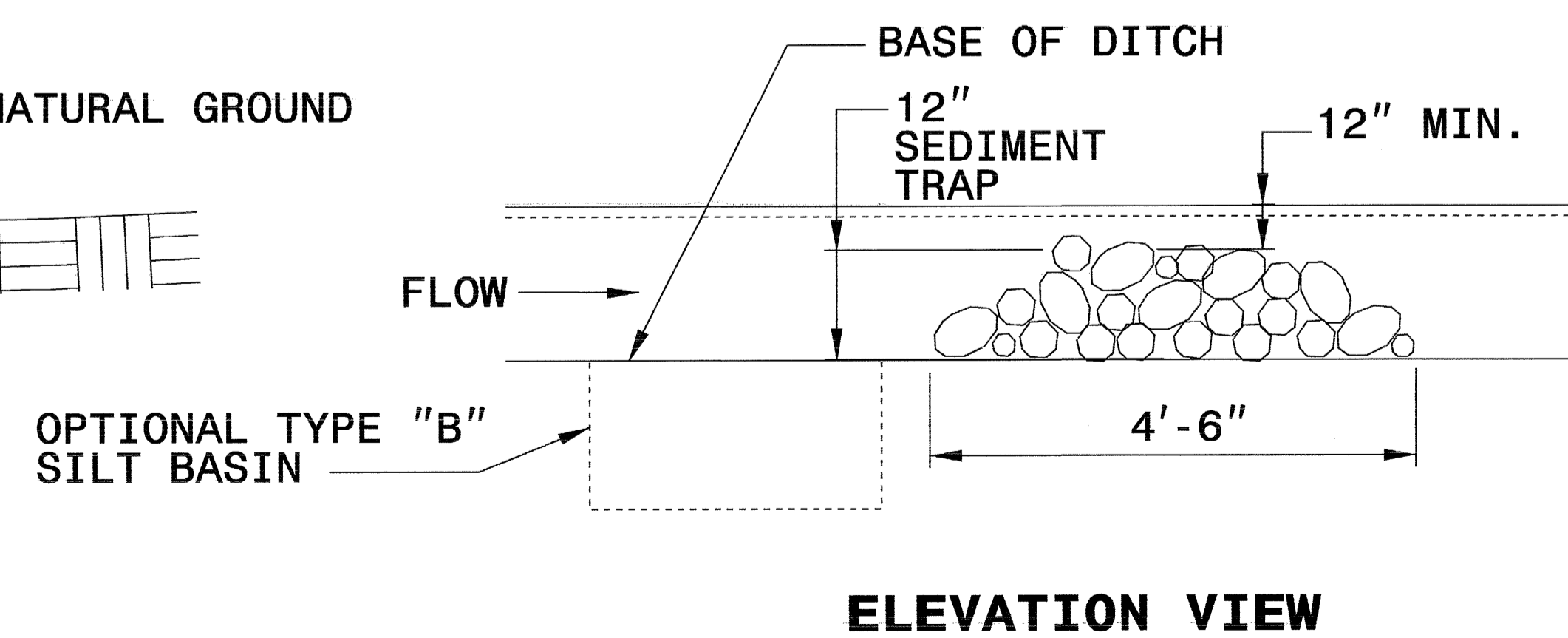
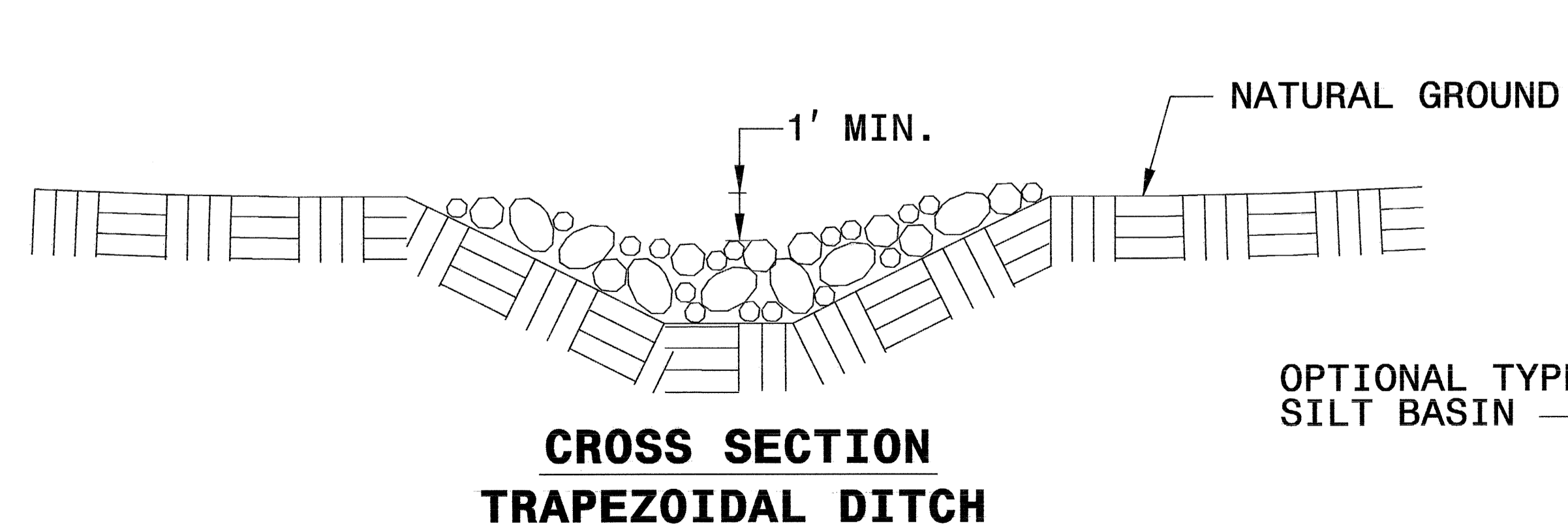
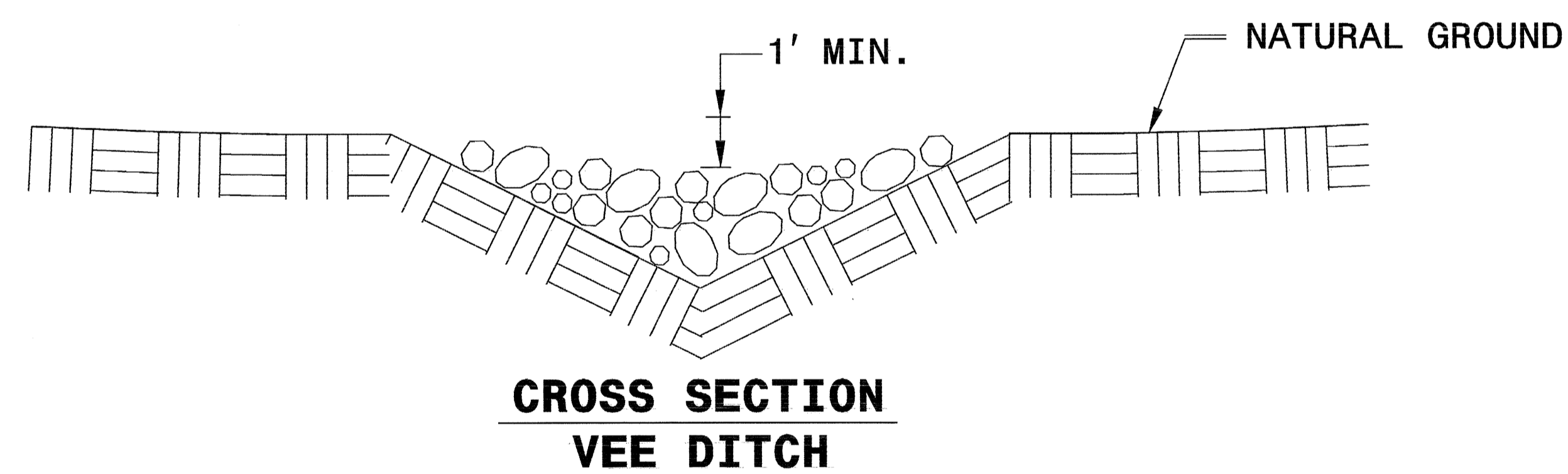
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL



NOTES:

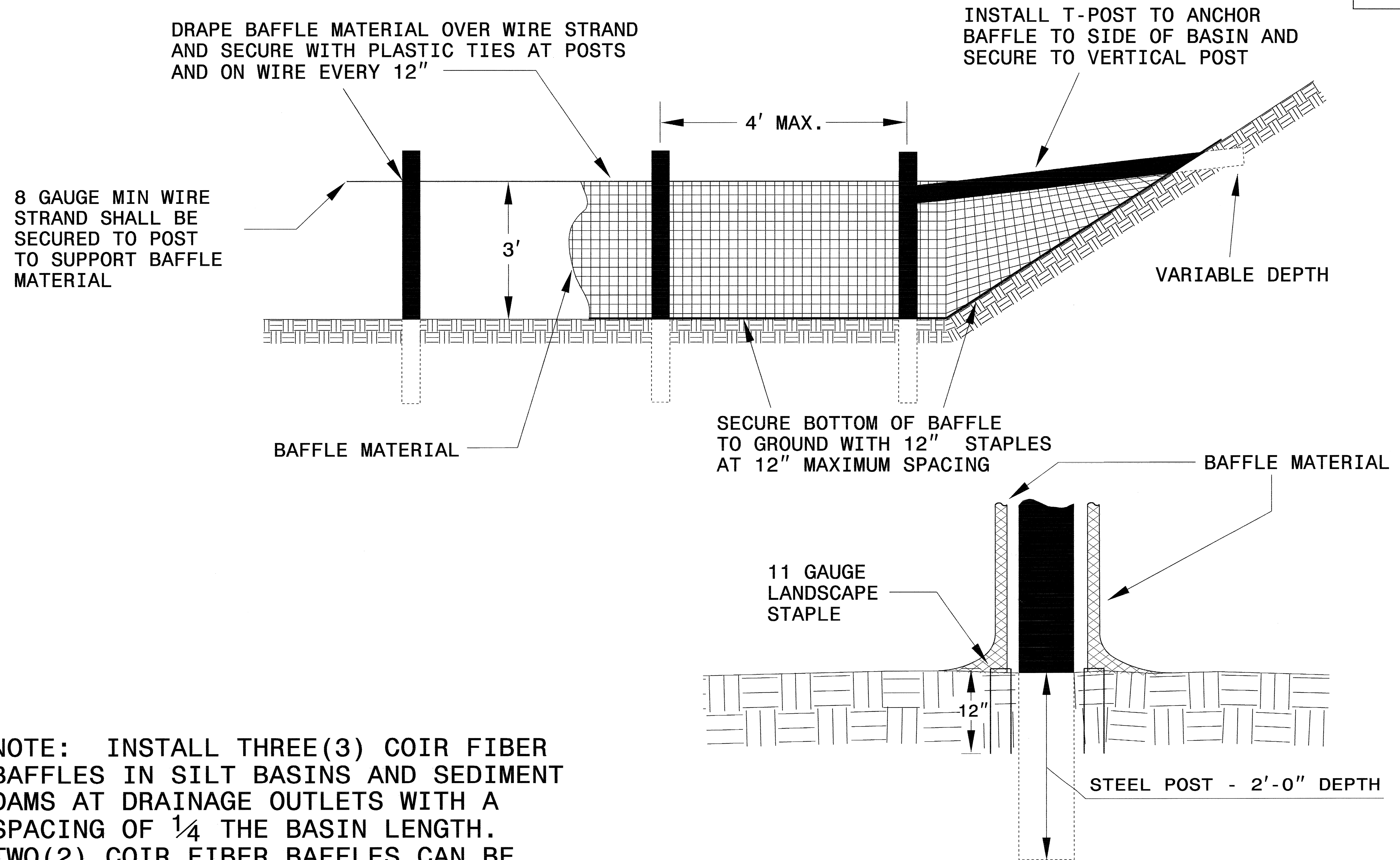
USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



PROJECT REFERENCE NO. B-4298	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL

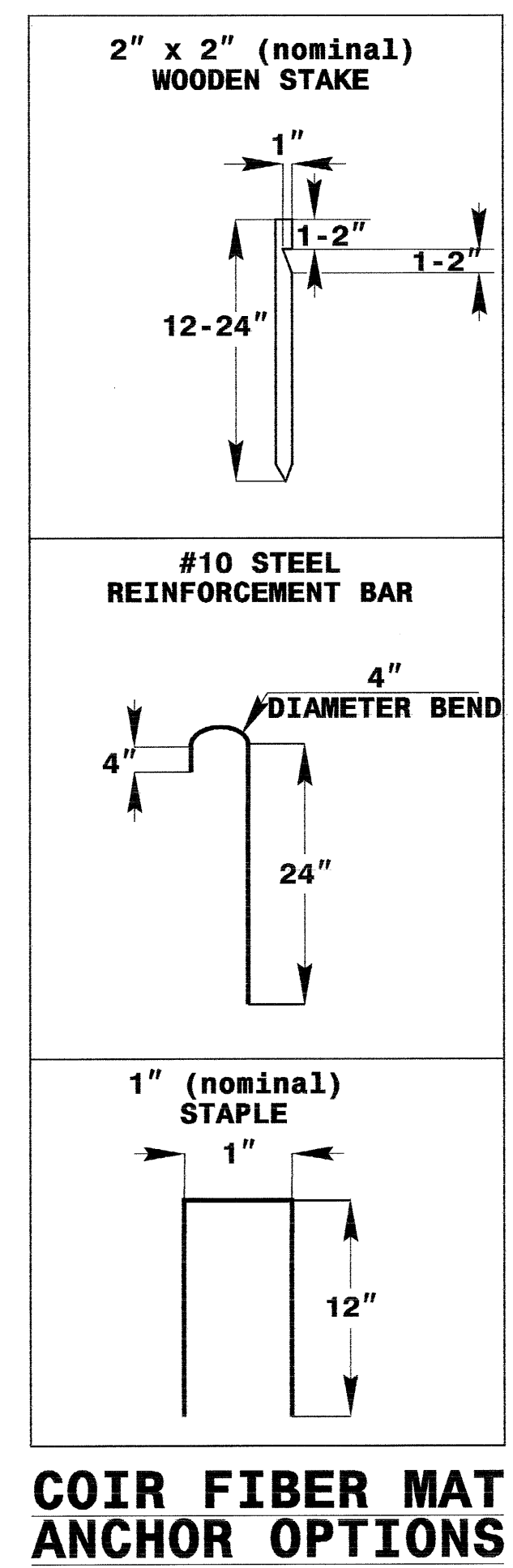
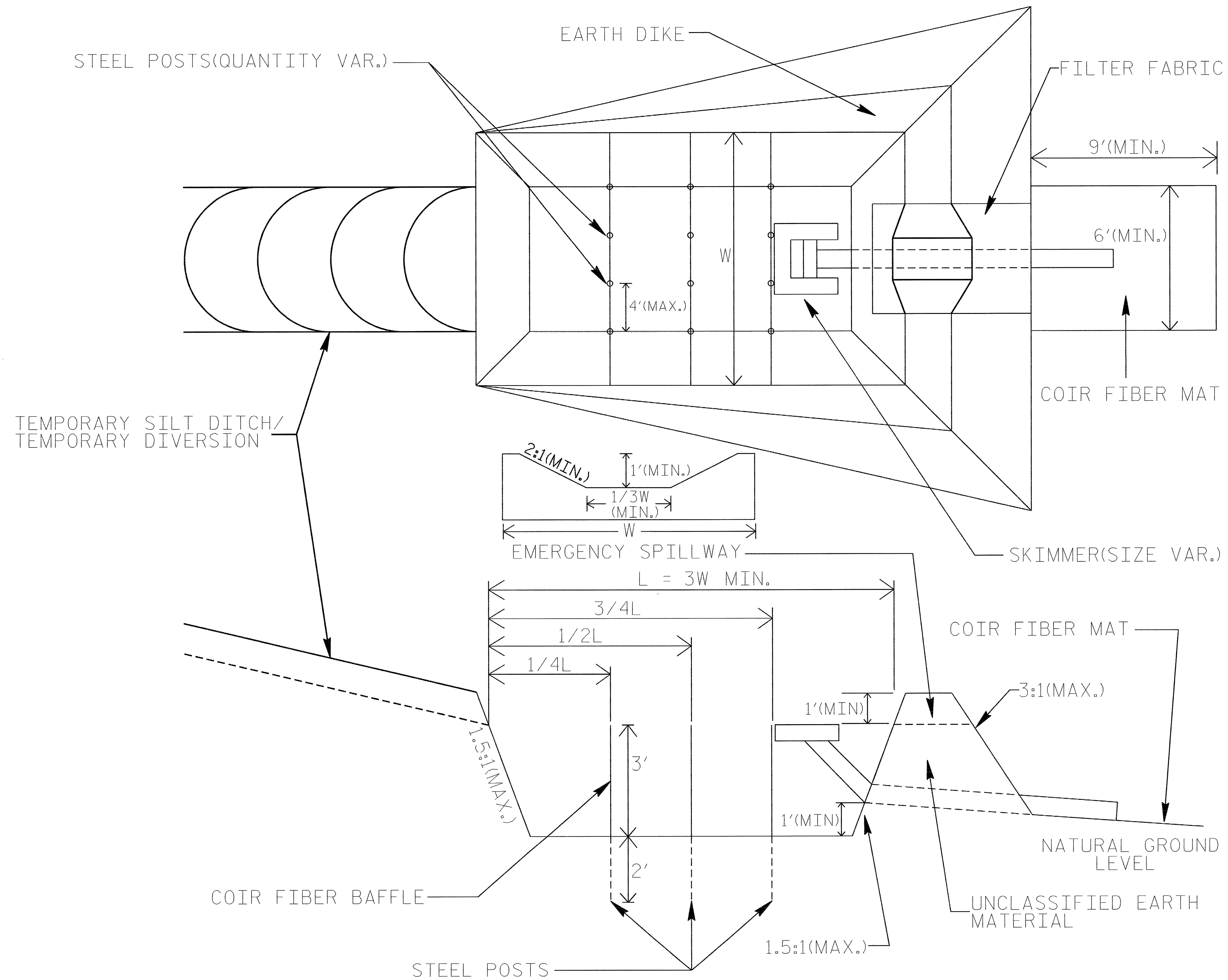


NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF $\frac{1}{4}$ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF $\frac{1}{3}$ THE BASIN LENGTH.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. B-4298	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULIC ENGINEER



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

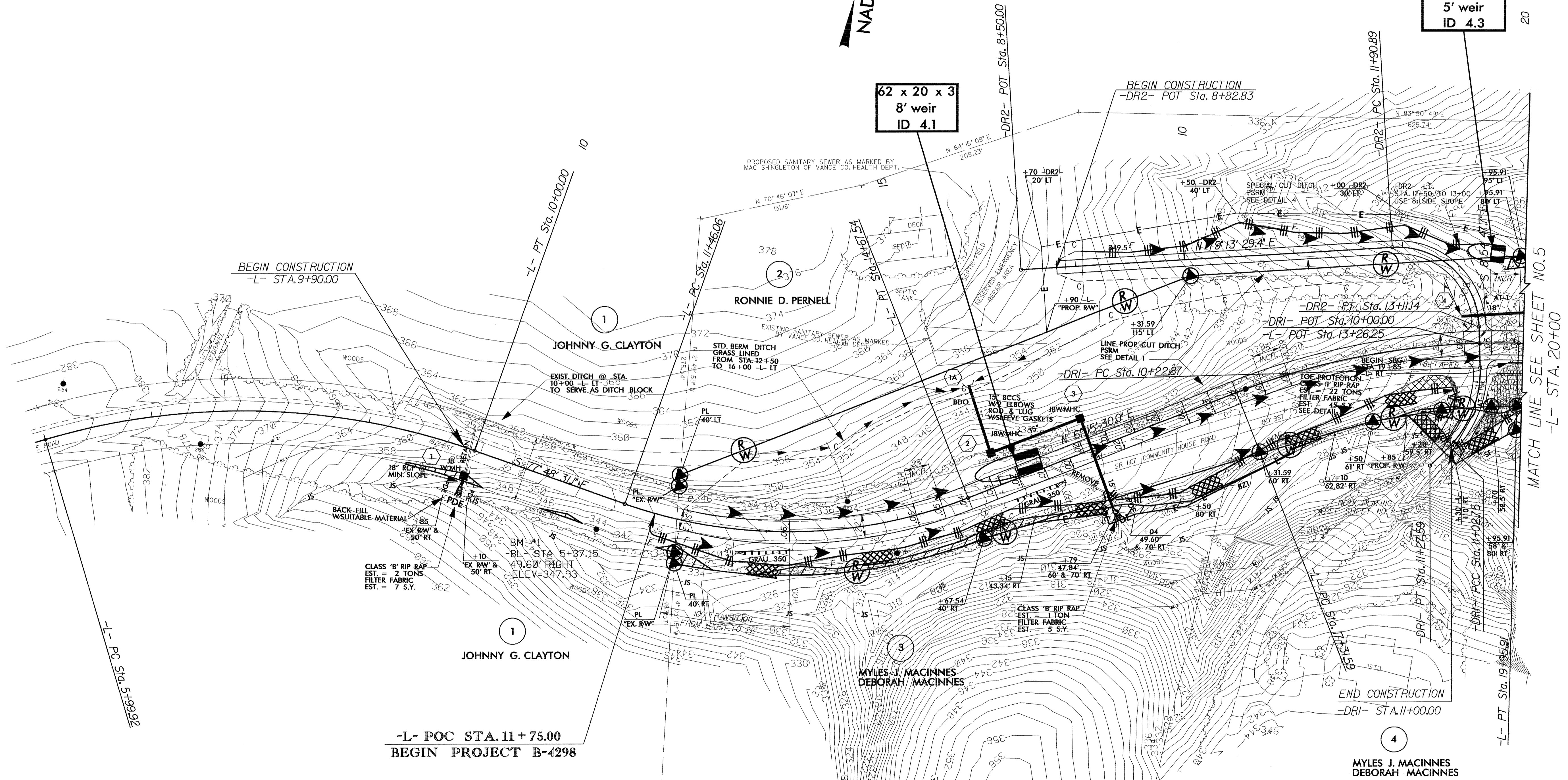
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NAD 8395

1
JOHNNY G. CLAYTON
GOLDIE E. CLAYTON

34 x 16 x 3
5' weir
ID 4.3

62 x 20 x 3
8' weir
ID 4.1



MATCH LINE SEE SHEET NO. 5
-L- STA. 20+00

-L- POC STA. 11+75.00
BEGIN PROJECT B-4298

4
MYLES J. MACINNES
DEBORAH MACINNES

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

-L-			-DRI-		-DR2-	
PI Sta 8+06.79	PI Sta 13+14.00	PI Sta 18+65.55	PI Sta 11+15.17	PI Sta 10+65.08	PI Sta 12+68.37	
Δ = 35° 57' 22.5" (RT)	Δ = 40° 55' 58.9" (LT)	Δ = 22° 56' 45.0" (RT)	Δ = 2° 52' 44.7" (RT)	Δ = 45° 46' 03.1" (RT)	Δ = 9° 51' 42.9" (RT)	
D = 8° 59' 14.1"	D = 12° 43' 56.6"	D = 8° 40' 52.2"	D = 11° 35' 20.2"	D = 57° 17' 44.8"	D = 76° 23' 39.7"	
L = 400.08'	L = 321.49'	L = 264.32'	L = 24.84'	L = 79.88'	L = 120.25'	
T = 206.87'	T = 167.95'	T = 133.95'	T = 12.42'	T = 42.21'	T = 77.48'	
R = 637.52'	R = 450.00'	R = 660.00'	R = 494.40'	R = 100.00'	R = 75.00'	
	Runoff = 133'	Runoff = 120'				

NOTES: (1) SEE SHEET 6 FOR -L- & -DRI- PROFILES,
AND SHEET 7 FOR -DR2- PROFILE
(2) SEE SHEET 2-A FOR DITCH DETAILS

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PROJECT REFERENCE NO. B-4298	SHEET NO. EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

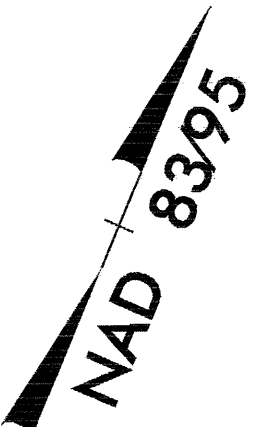
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

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

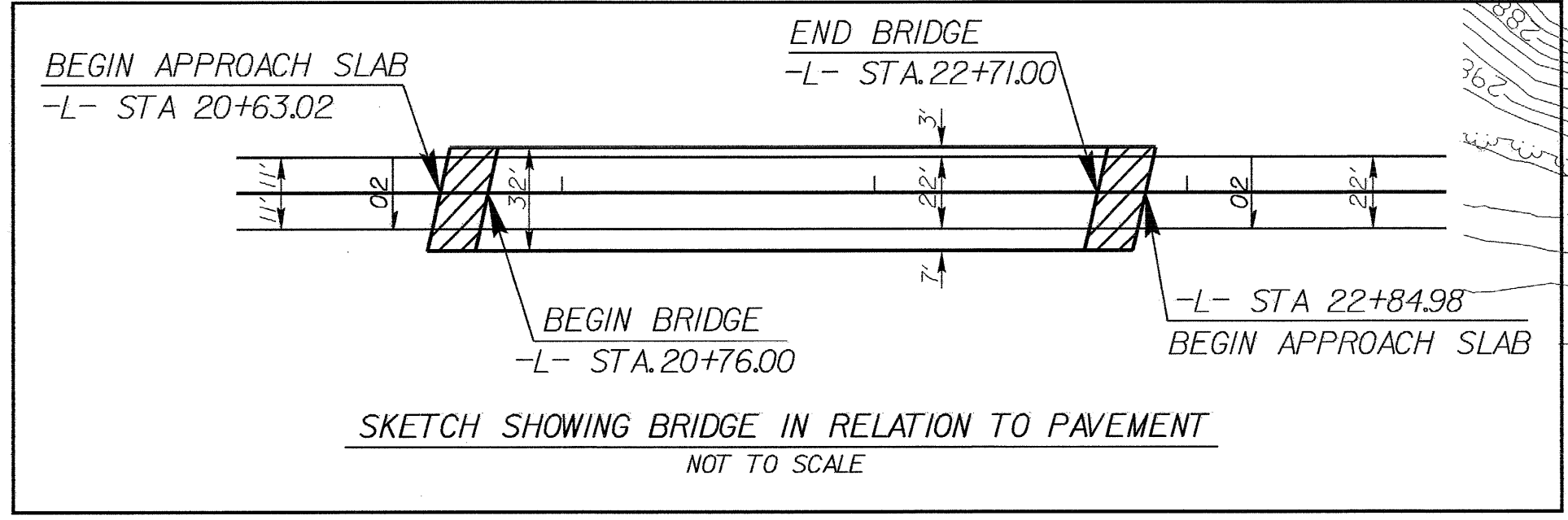
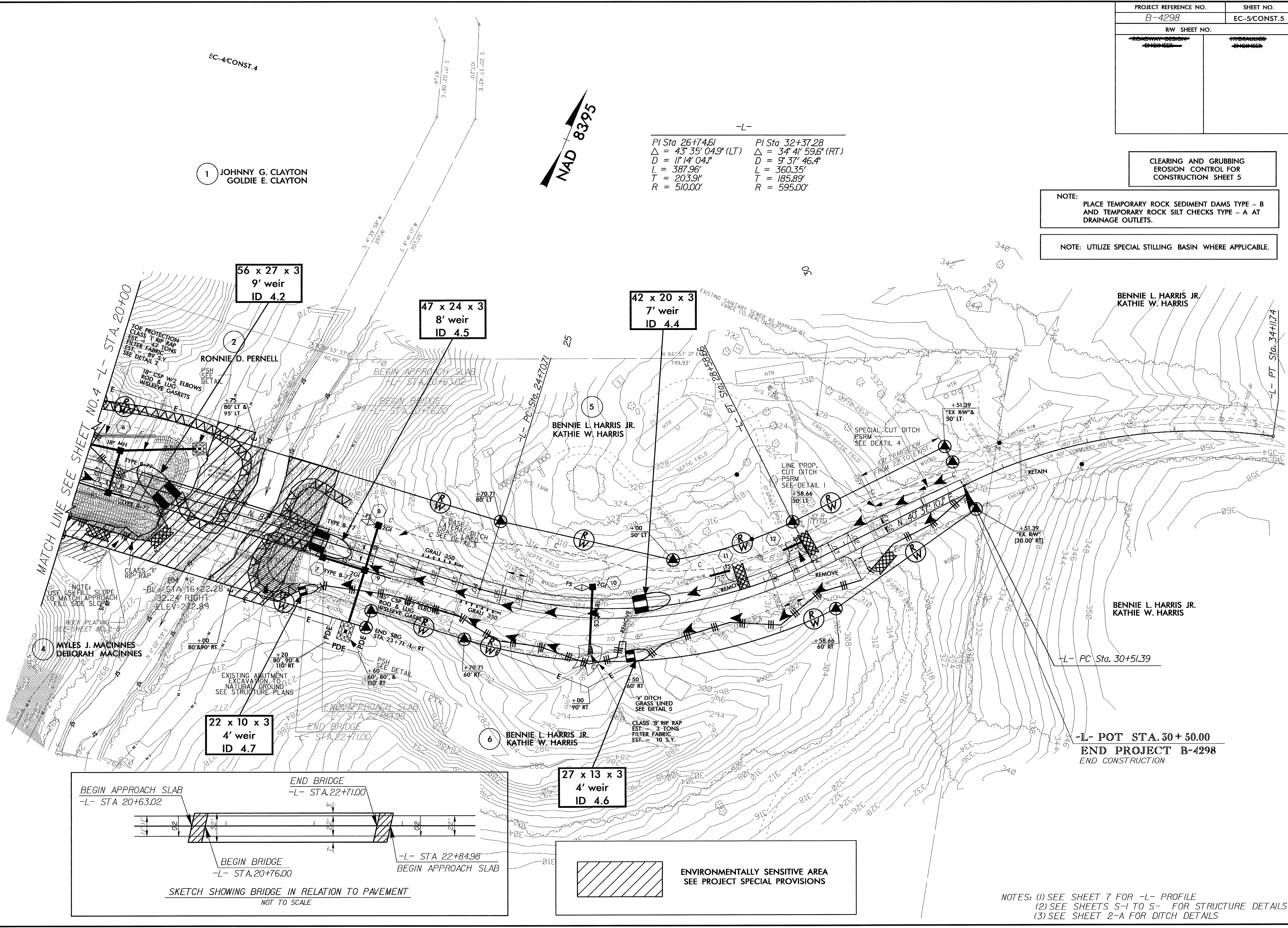
NOTE: UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE.

-L-

PI Sta 26+74.61	PI Sta 32+37.28
$\Delta = 43^{\circ} 35' 04.9"$ (LT)	$\Delta = 34^{\circ} 41' 59.6"$ (RT)
$D = 11^{\circ} 14' 04.1"$	$D = 9^{\circ} 37' 46.4"$
$L = 387.96'$	$L = 360.35'$
$T = 203.91'$	$T = 185.89'$
$R = 510.00'$	$R = 595.00'$



1 JOHNNY G. CLAYTON
GOLDIE E. CLAYTON

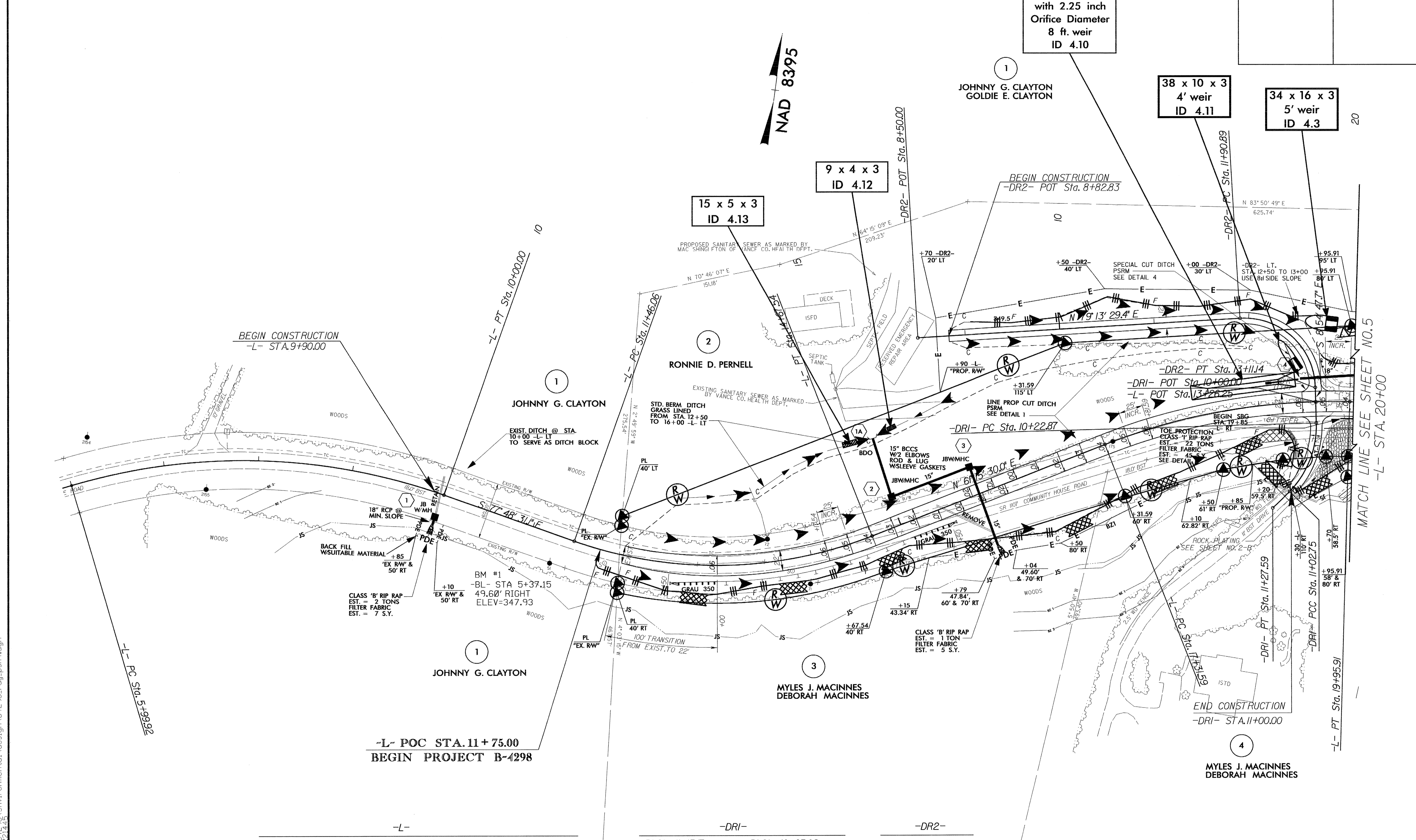


 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

NOTES: (1) SEE SHEET 7 FOR -L- PROFILE
(2) SEE SHEETS S-1 TO S- FOR STRUCTURE DETAILS
(3) SEE SHEET 2-A FOR DITCH DETAILS

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PROJECT REFERENCE NO.	SHEET NO.
B-4298	EC-6/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



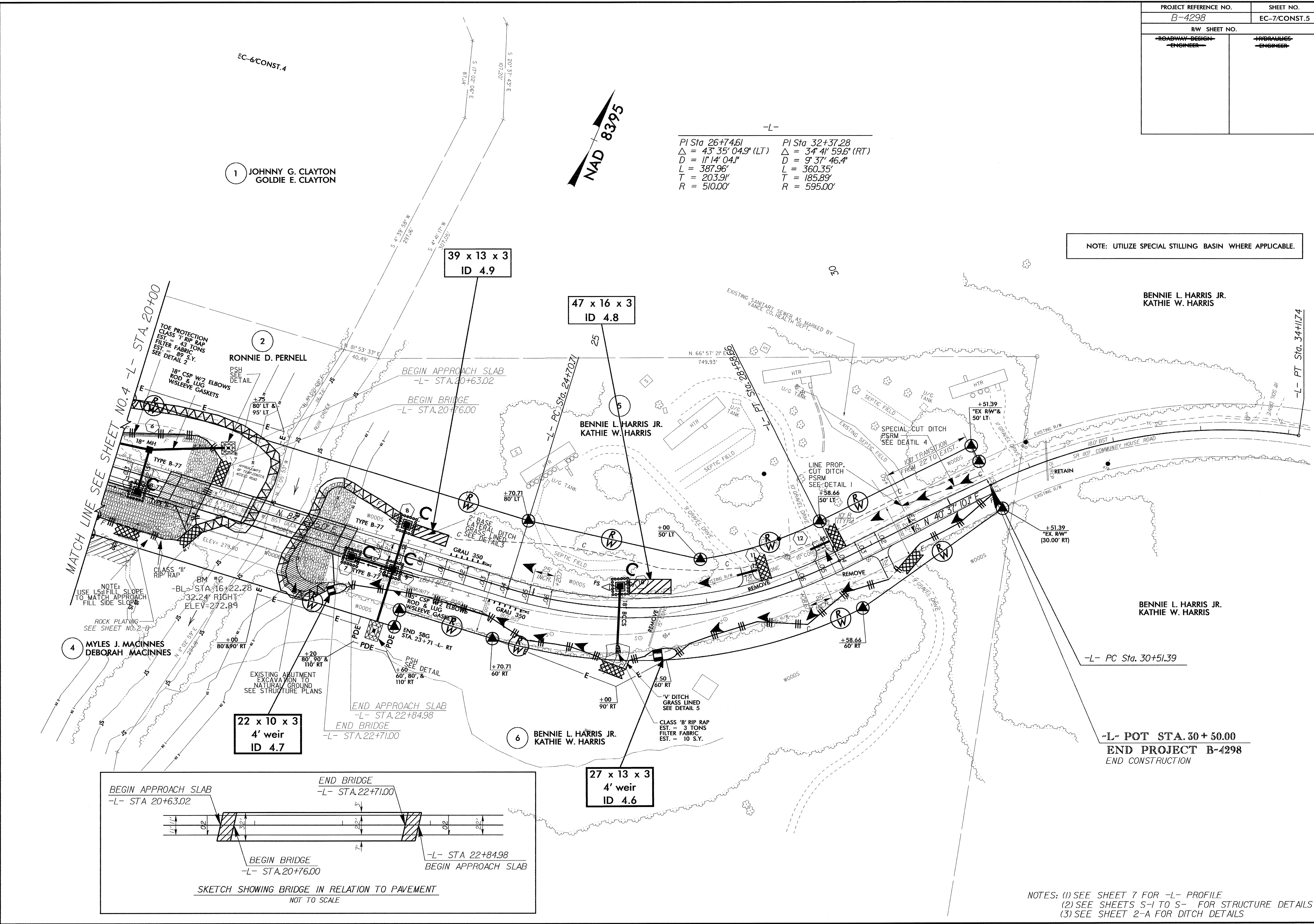
-L-			-DRI-		-DR2-
PI Sta 8+06.79	PI Sta 13+4.00	PI Sta 18+65.55	PI Sta 11+5.17	PI Sta 10+65.08	PI Sta 12+68.37
$\Delta = 35^{\circ} 57' 22.5''$ (RT)	$\Delta = 40^{\circ} 55' 58.9''$ (LT)	$\Delta = 22^{\circ} 56' 45.0''$ (RT)	$\Delta = 2^{\circ} 52' 44.7''$ (RT)	$\Delta = 45^{\circ} 46' 03.1''$ (RT)	$\Delta = 9^{\circ} 51' 42.9''$ (RT)
D = 8' 59' 14.1"	D = 12' 43' 56.6"	D = 8' 40' 52.2"	D = 11' 35' 20.2"	D = 57' 17' 44.8"	D = 76' 23' 39.7"
L = 400.08'	L = 321.49'	L = 264.32'	L = 24.84'	L = 79.88'	L = 120.25'
T = 206.87'	T = 167.95'	T = 133.95'	T = 12.42'	T = 42.21'	T = 77.48'
R = 637.52'	R = 450.00'	R = 660.00'	R = 494.40'	R = 100.00'	R = 75.00'
	Runoff = 133'	Runoff = 120'			

NOTES: (1) SEE SHEET 6 FOR -L- & -DRI- PROFILES, AND SHEET 7 FOR -DR2- PROFILE
 (2) SEE SHEET 2-A FOR DITCH DETAILS

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PROJECT REFERENCE NO.	SHEET NO.
B-4298	EC-7/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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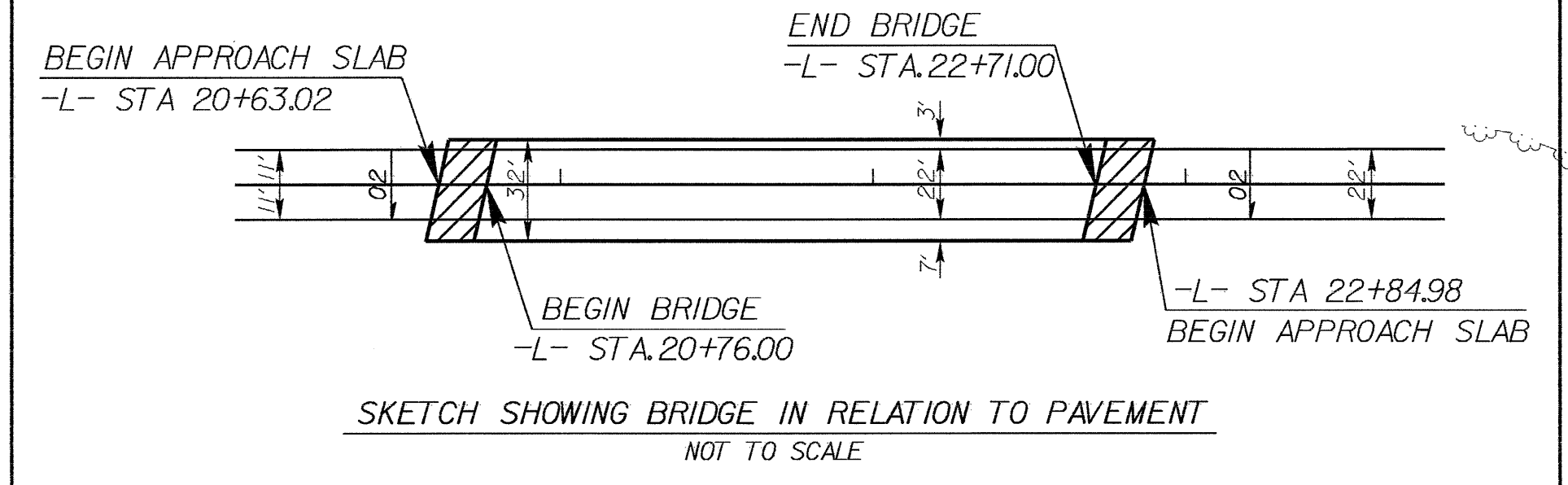


-L-

PI Sta 26+74.61 $\Delta = 43^\circ 35' 04.9"$ (LT) $D = 11' 14" 04.1"$ $L = 387.96'$ $T = 203.91'$ $R = 510.00'$	PI Sta 32+37.28 $\Delta = 34^\circ 41' 59.6"$ (RT) $D = 9' 37" 46.4"$ $L = 360.35'$ $T = 185.89'$ $R = 595.00'$
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NOTE: UTILIZE SPECIAL STILLING BASIN WHERE APPLICABLE.

MATCH LINE SEE SHEET NO. 4 -L- STA. 20+00



NOTES: (1) SEE SHEET 7 FOR -L- PROFILE
(2) SEE SHEETS S-1 TO S- FOR STRUCTURE DETAILS
(3) SEE SHEET 2-A FOR DITCH DETAILS

-L- POT STA. 30 + 50.00
END PROJECT B-4298
END CONSTRUCTION