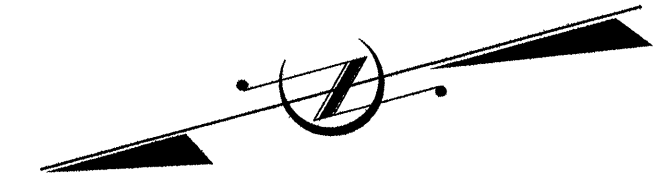


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5204	EC1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45326.1.STI	STM 00069 (6)	PE	
45326.2.STI	STM 00069 (6)	RW	
45326.3.STI	STM 00069 (6)	CONST	

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 PLAN FOR PROPOSED  
 HIGHWAY EROSION CONTROL

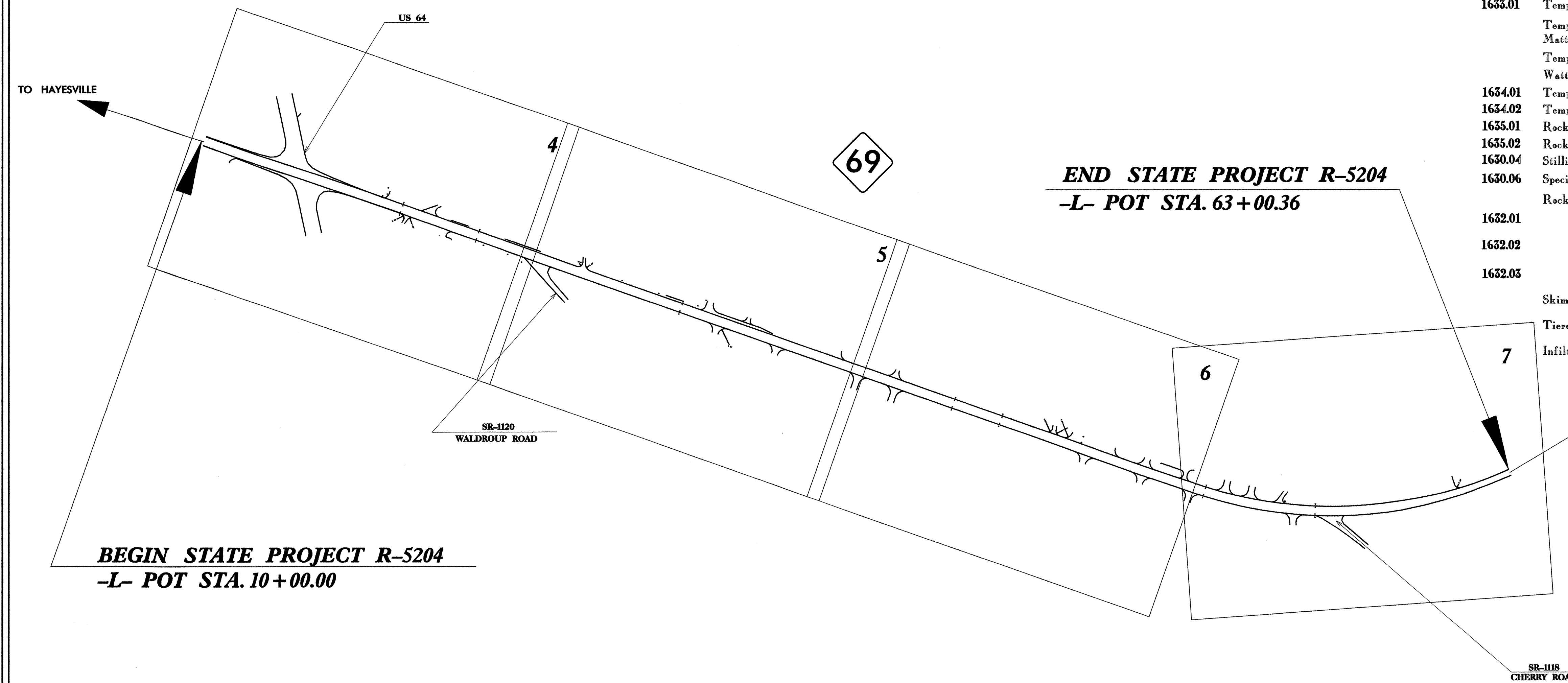
**CLAY COUNTY**

LOCATION : NC 69 FROM NORTH OF US 64 TO SOUTH OF SR- 1118  
 TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND GUARDRAIL



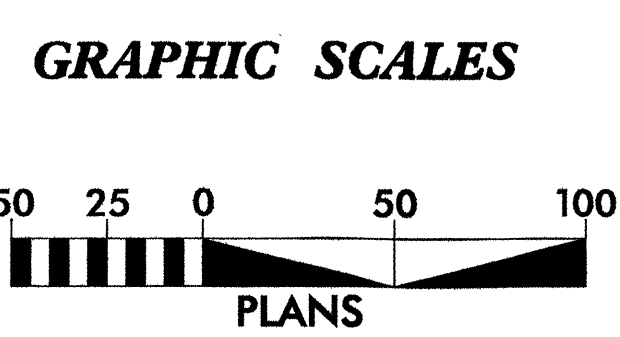
**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.05	Temporary Silt Ditch.....	TD
1630.05	Temporary Diversion.....	TD
1605.01	Temporary Silt Fence.....	III III III
1606.01	Special Sediment Control Fence.....	III III III
1622.01	Temporary Berms and Slope Drains.....	T
	Silt Basin Type B.....	SB
1633.01	Temporary Rock Silt Check Type-A.....	RS
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM).....	RS
	Temporary Rock Silt Check Type-B.....	RS
	Wattle.....	W
1634.01	Temporary Rock Sediment Dam Type-A.....	RD
1634.02	Temporary Rock Sediment Dam Type-B.....	RD
1635.01	Rock Pipe Inlet Sediment Trap Type-A.....	RP
1635.02	Rock Pipe Inlet Sediment Trap Type-B.....	RP
1630.04	Stilling Basin.....	SB
1630.06	Special Stilling Basin.....	SB
	Rock Inlet Sediment Trap:	
1632.01	Type A.....	A
1632.02	Type B.....	B
1632.03	Type C.....	C
	Skimmer Basin.....	SK
	Tiered Skimmer Basin.....	SK
	Infiltration Basin.....	IB



TIP PROJECT: R-5204

CONTRACT: C202534



DIVISION 14, DISTRICT III  
 DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

Prepared in the Office of:  
**DIVISION 14 DISTRICT III**  
 191 ROBBINSVILLE ROAD  
 ANDREWS, NC 28901  
 2006 STANDARD SPECIFICATIONS

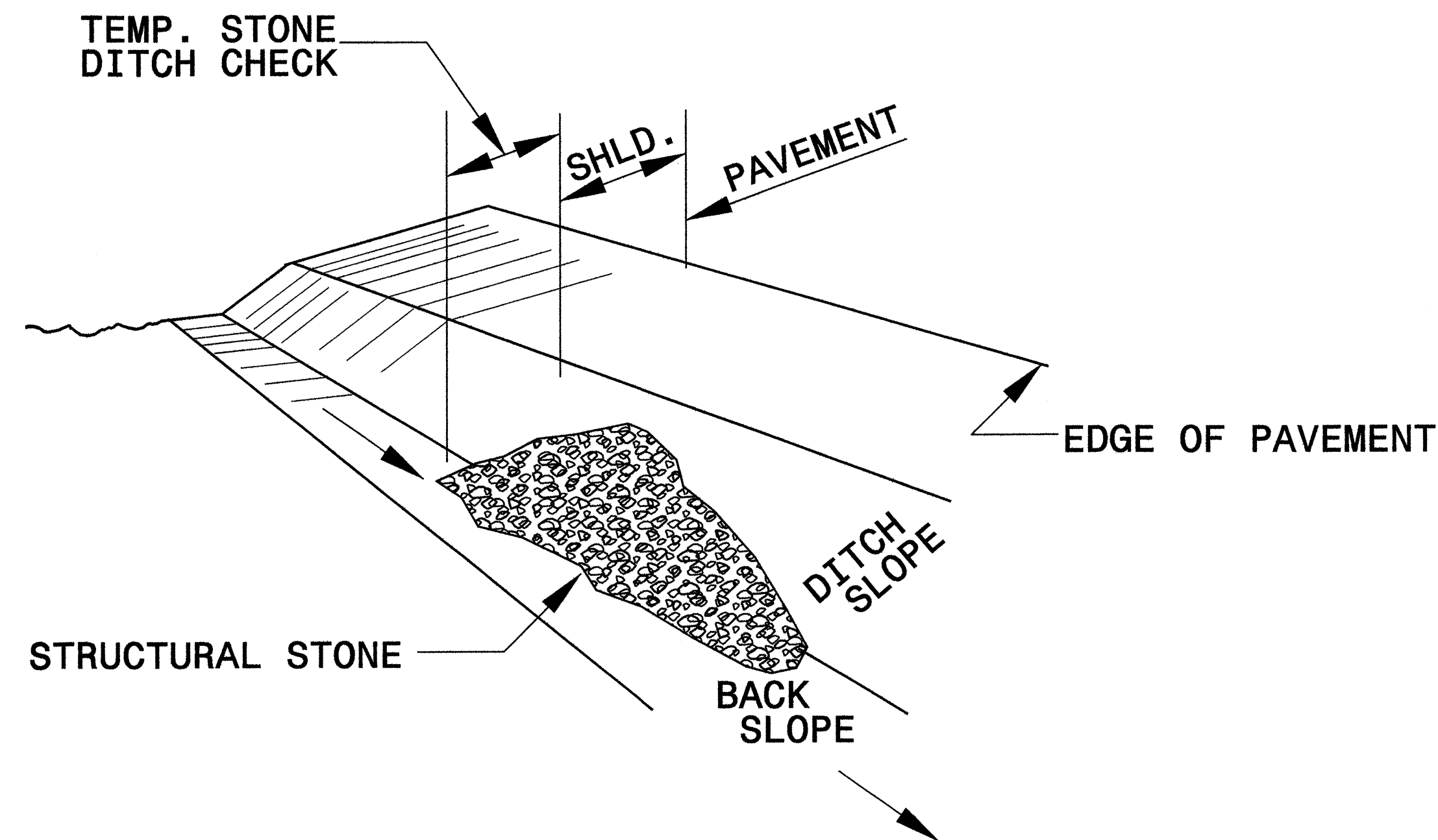
Roadway Standard Drawings  
 The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered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

1605.01 Temporary Silt Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1630.06 Special Stilling Basin	1634.02 Temporary Rock Sediment Dam Type B
1632.02 Rock Inlet Sediment Trap Type B	

08-DEC-2009 14:38 s:\dist3\design\nc69\turnlane\nc69\design\dgn\Erosion Control\nc69\_ec\_tsh.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-5204	EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	

# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

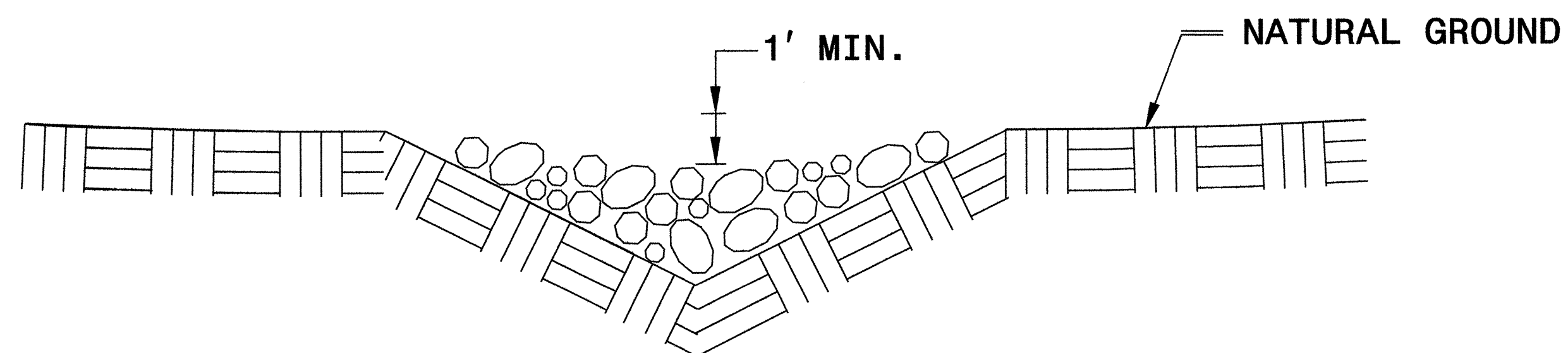


**ISOMETRIC VIEW**

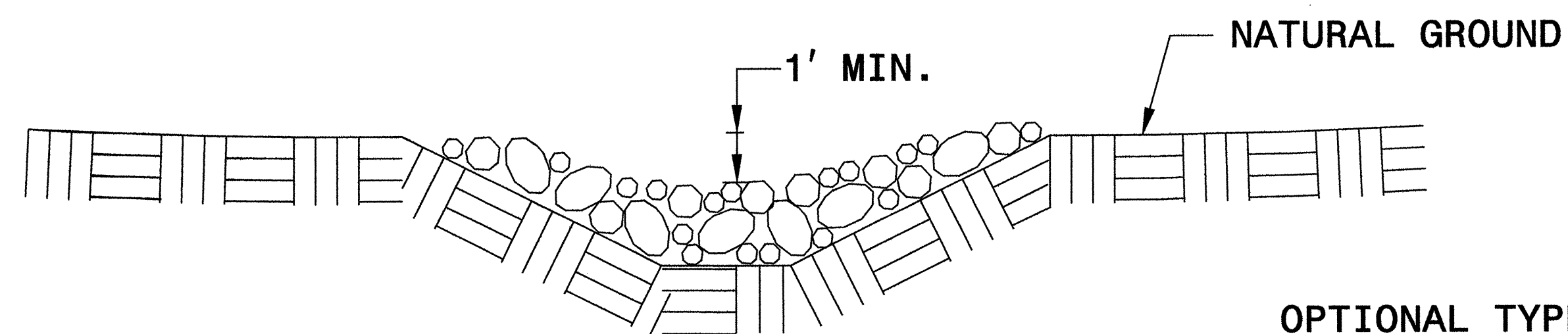
**NOTES:**

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

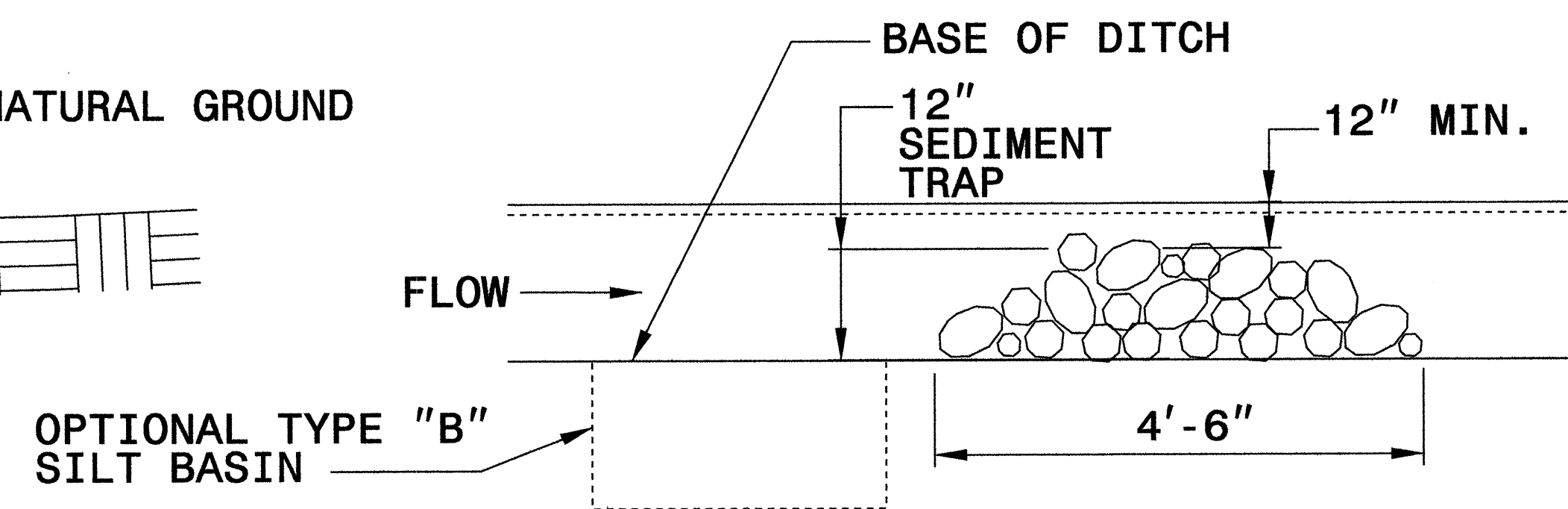
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION  
VEE DITCH**



**CROSS SECTION  
TRAPEZOIDAL DITCH**

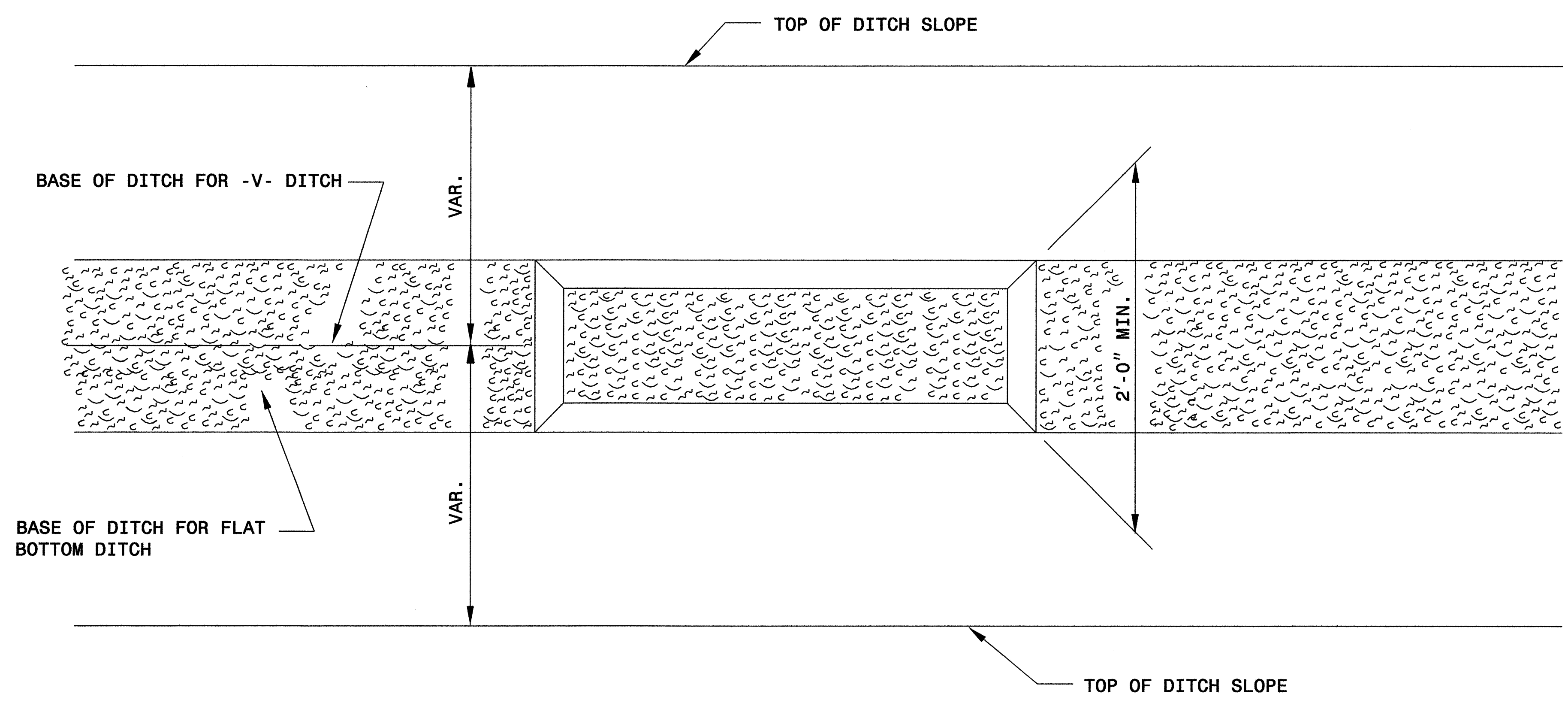


**ELEVATION VIEW**

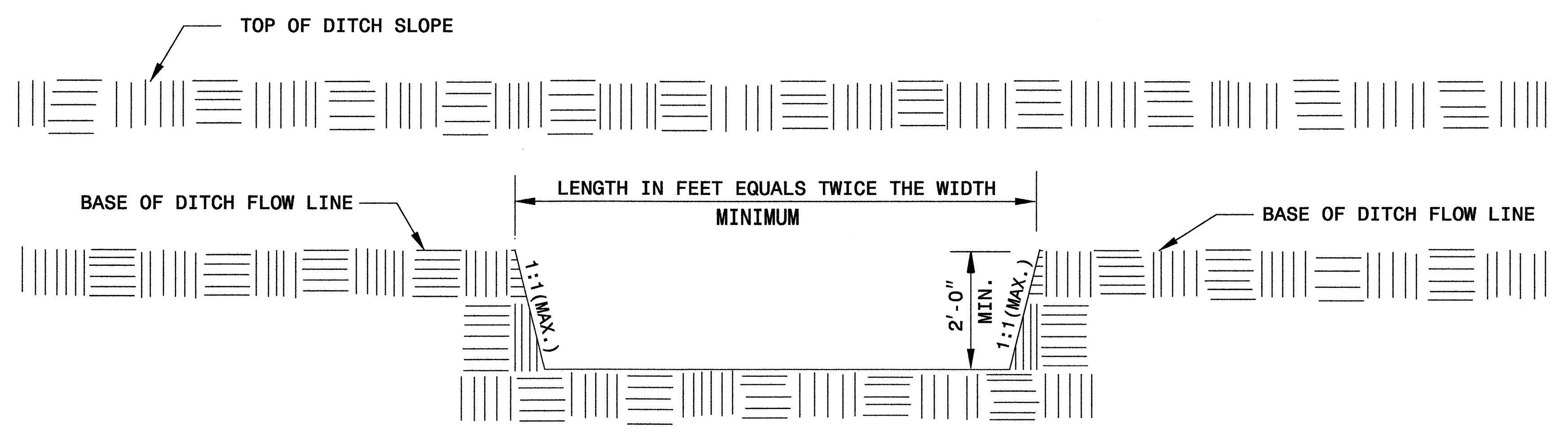


PROJECT REFERENCE NO.	SHEET NO.
R-5204	EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	

# SILT BASIN 'B' DETAIL



PLAN



ELEVATION

PROJECT REFERENCE NO. R-5204	SHEET NO. EC-2C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	

# WATTLE WITH POLYACRYLAMIDE DETAIL

**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. 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.

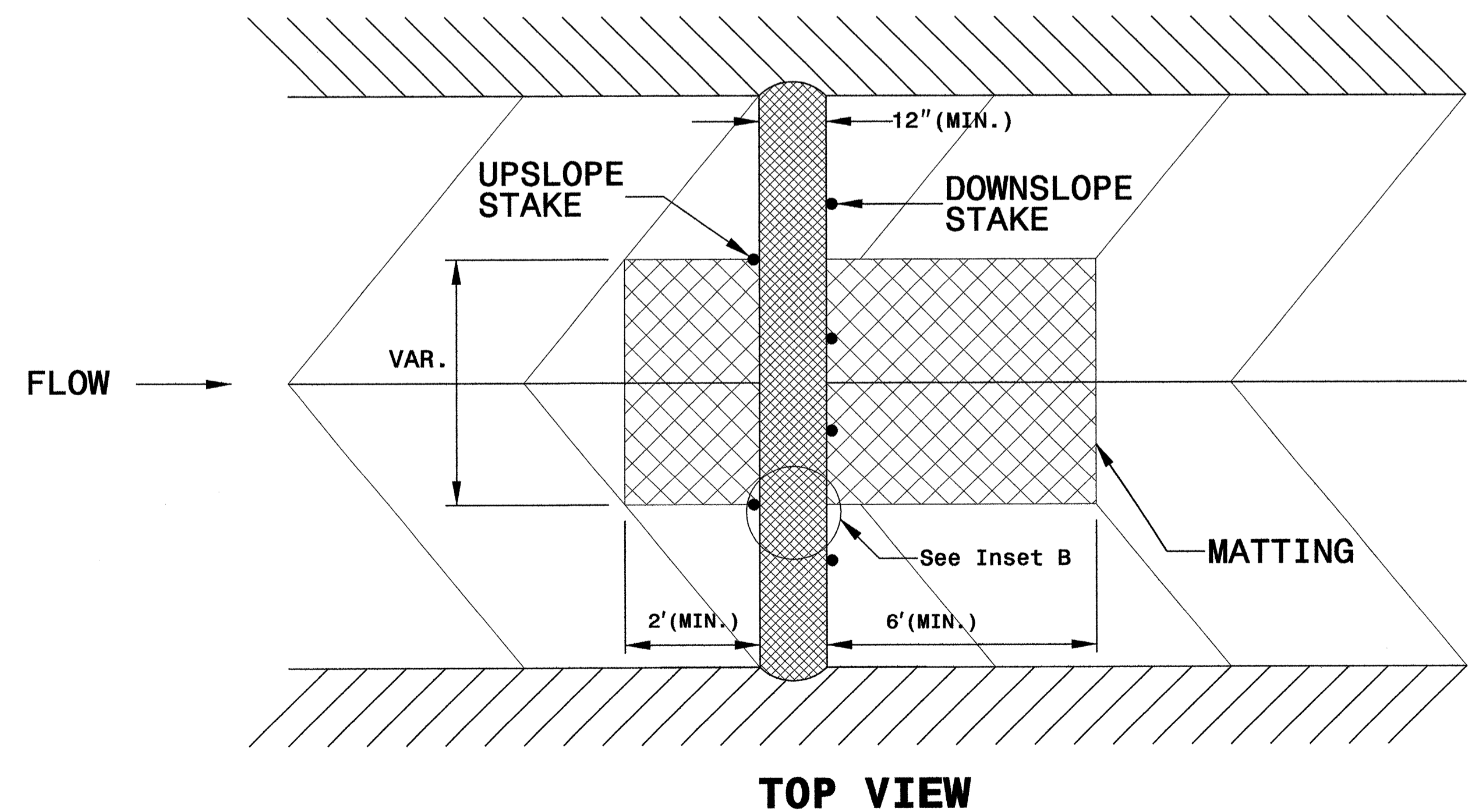
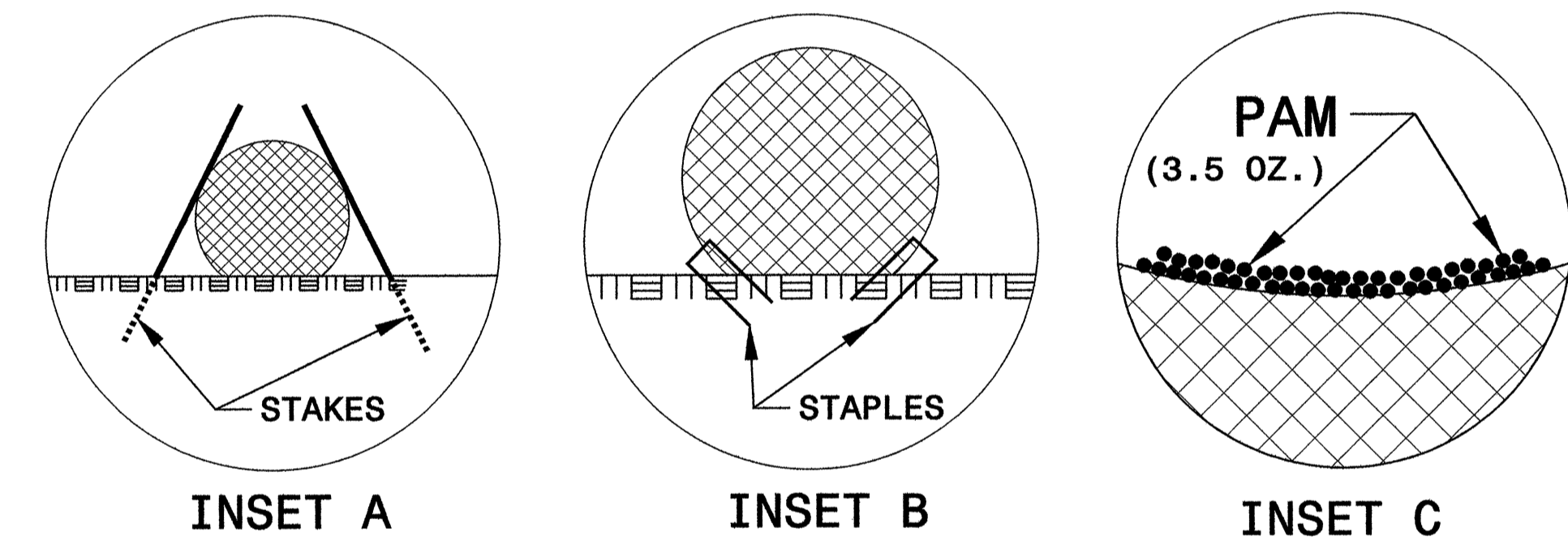
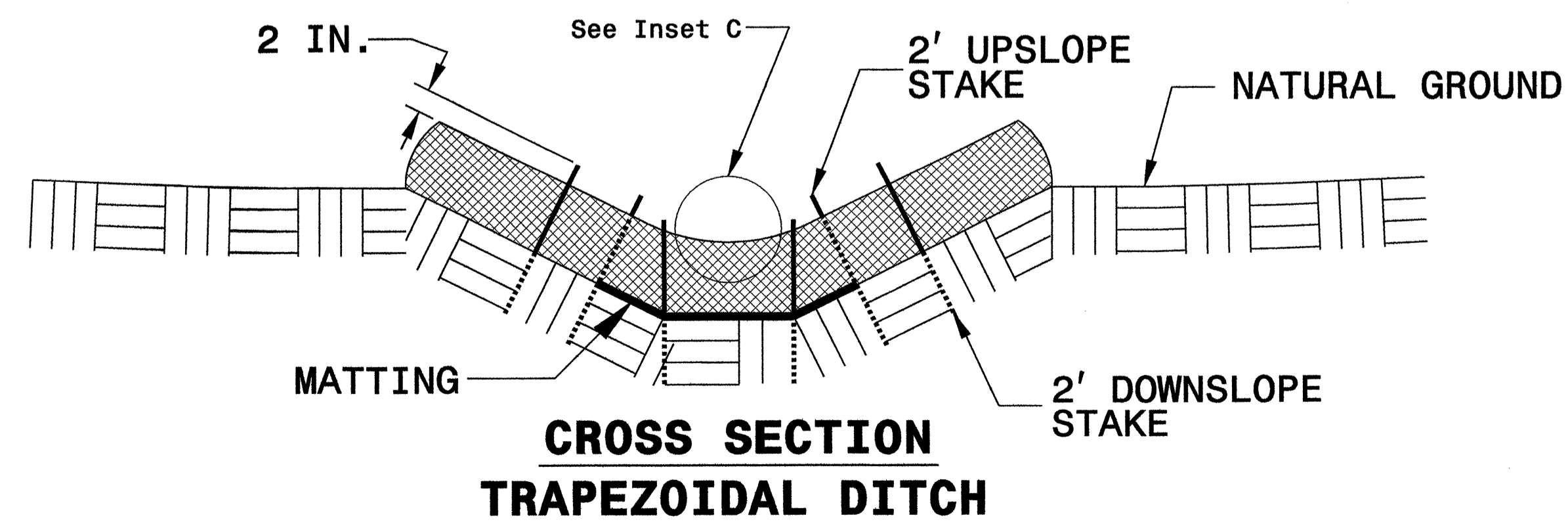
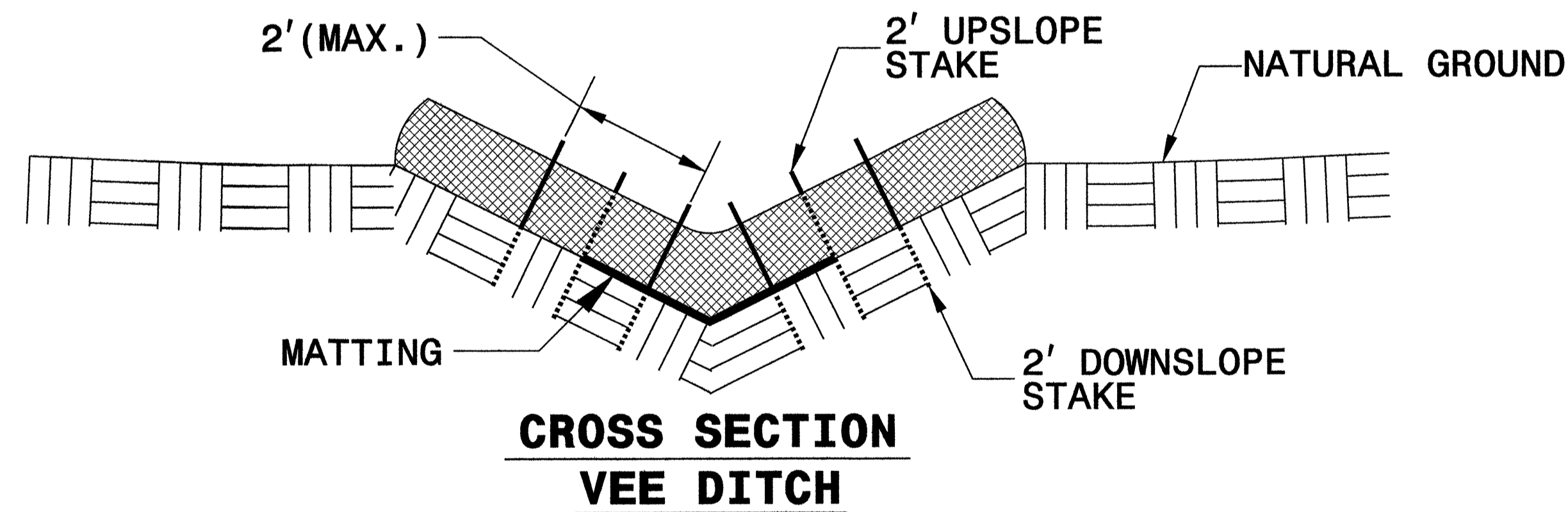
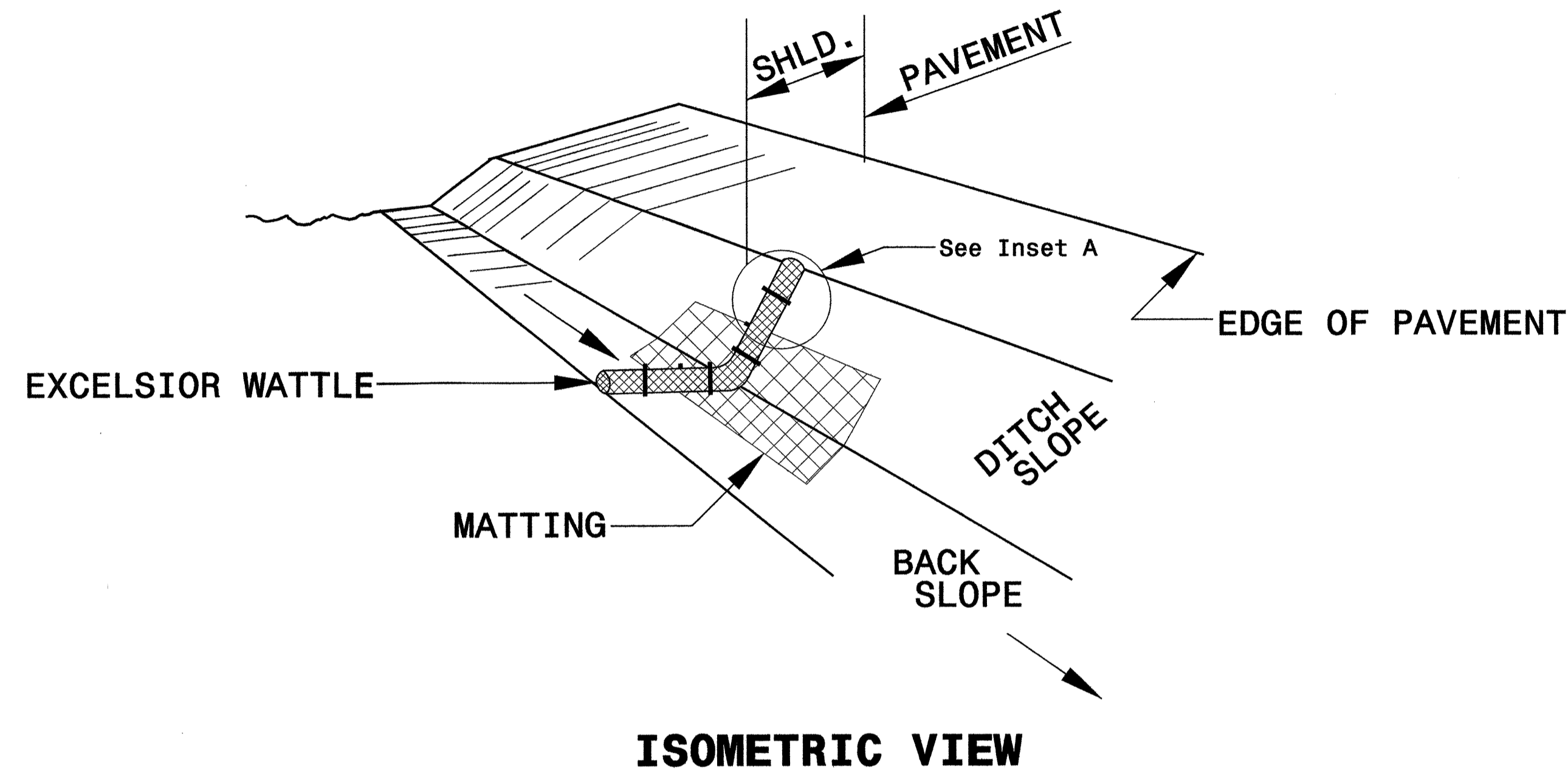
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

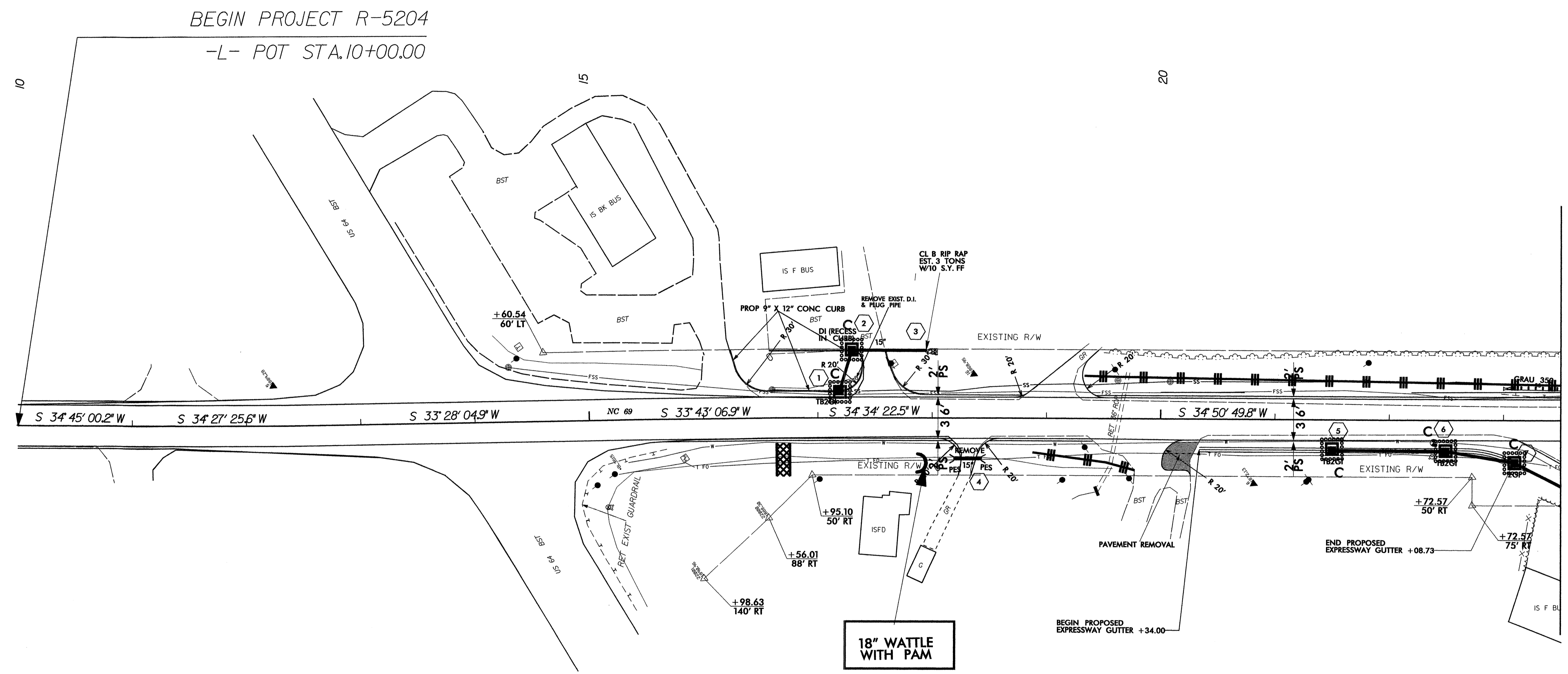




5/14/99

08-DEC-2009 14:45  
ts\civil\nc669\erostion\control\er-5204.ec.psh.4.dgn  
jbdenton AT 11/11/2009 11:17:00

PROJECT REFERENCE NO. <i>R-5204</i>	SHEET NO. <i>EC-4 /CONST.4</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	



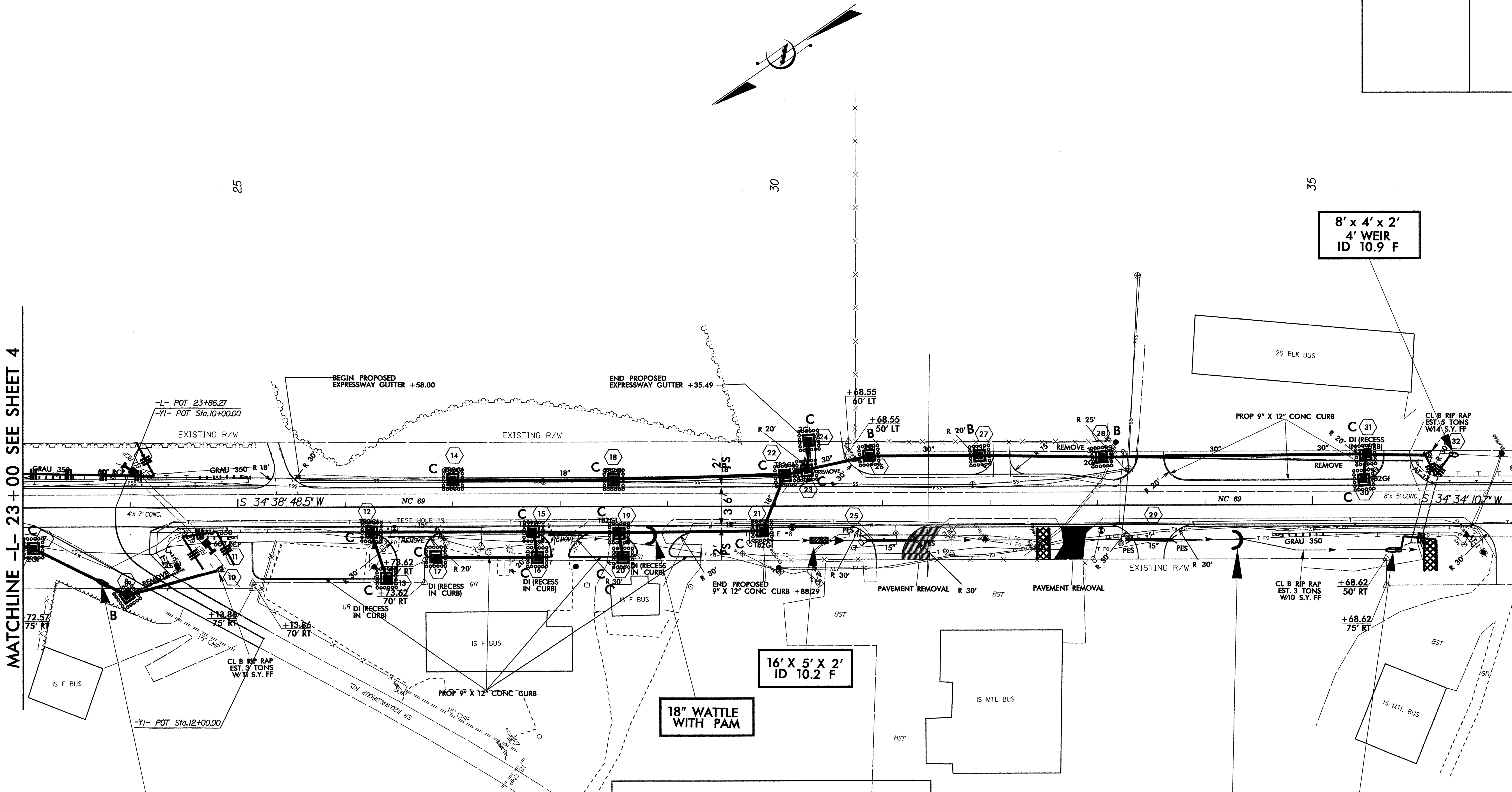
MATCHLINE -L- 23+50 SEE SHEET 5

5/14/99  
 08-DFC-2009 1447  
 s:\c1\au\nc69\ur\pl\ne\X-nc69\_design\ dgn\ Erosion Control\ R-5204\_EC\_PSH\_5.dgn  
 J:\dell\AT\1447\1231760

PROJECT REFERENCE NO. R-5204	SHEET NO. EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	

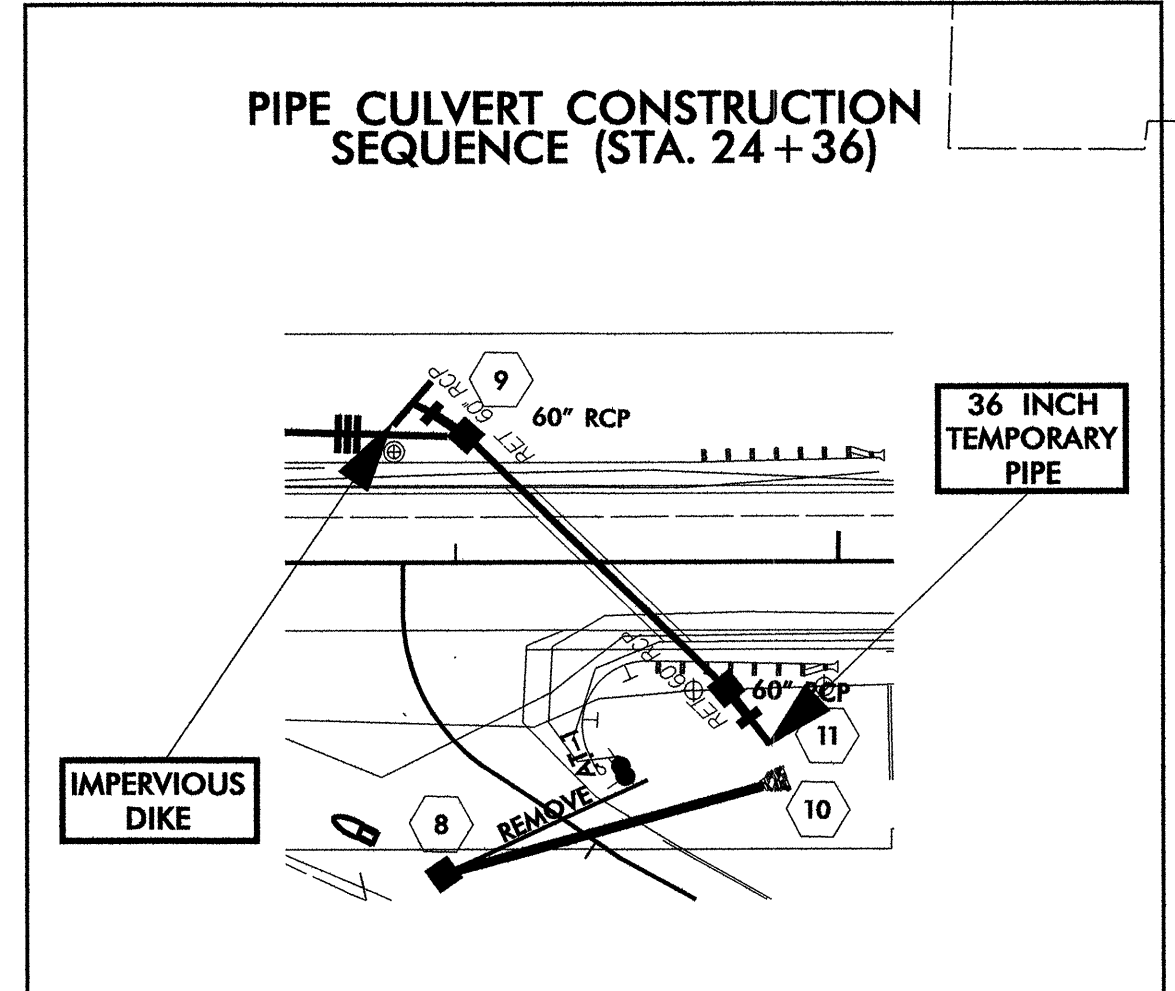
MATCHLINE -L- 23+00 SEE SHEET 4

MATCHLINE -L- 37+00 SEE SHEET 6



**12' x 4' x 2'  
4' WEIR  
ID 10.1 F**

- PIPE CULVERT CONSTRUCTION SEQUENCE**
1. CONSTRUCT IMPERVIOUS DIKE AND INSTALL 36" TEMPORARY PIPE.
  2. DEWATER SITE UTILIZING SPECIAL STILLING BASIN(S).
  3. CONSTRUCT DRAINAGE STRUCTURES AND PIPE CULVERT.
  4. DIVERT WATER THROUGH PIPE CULVERT.
  5. COMPLETE ROADWAY.



**18" WATTLE WITH PAM**

**16' X 5' X 2'  
ID 10.2 F**

**18" WATTLE WITH PAM**

**15' x 4' x 2'  
4' WEIR  
ID 10.3 F**

**8' x 4' x 2'  
4' WEIR  
ID 10.9 F**





PROJECT REFERENCE NO.	SHEET NO.
R-5204	EC-7/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	

5/14/99

18-DEC-2008 11:39  
 ts\clay\ec05\hwy\on\pnt\ec\ne69\_design\edgn\Control\5204\_ec\_psh\_7.dgn  
 Jodeh

