

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4861	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38194.1.1	BRZ-1002(21)	PE	
38194.2.1	BRZ-1002(21)	RW, UTIL.	
38194.3.1	BRZ-1002(21)	CONST.	

CITY OF ANSONVILLE  
ANSON COUNTY  
NORTH CAROLINA

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PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL

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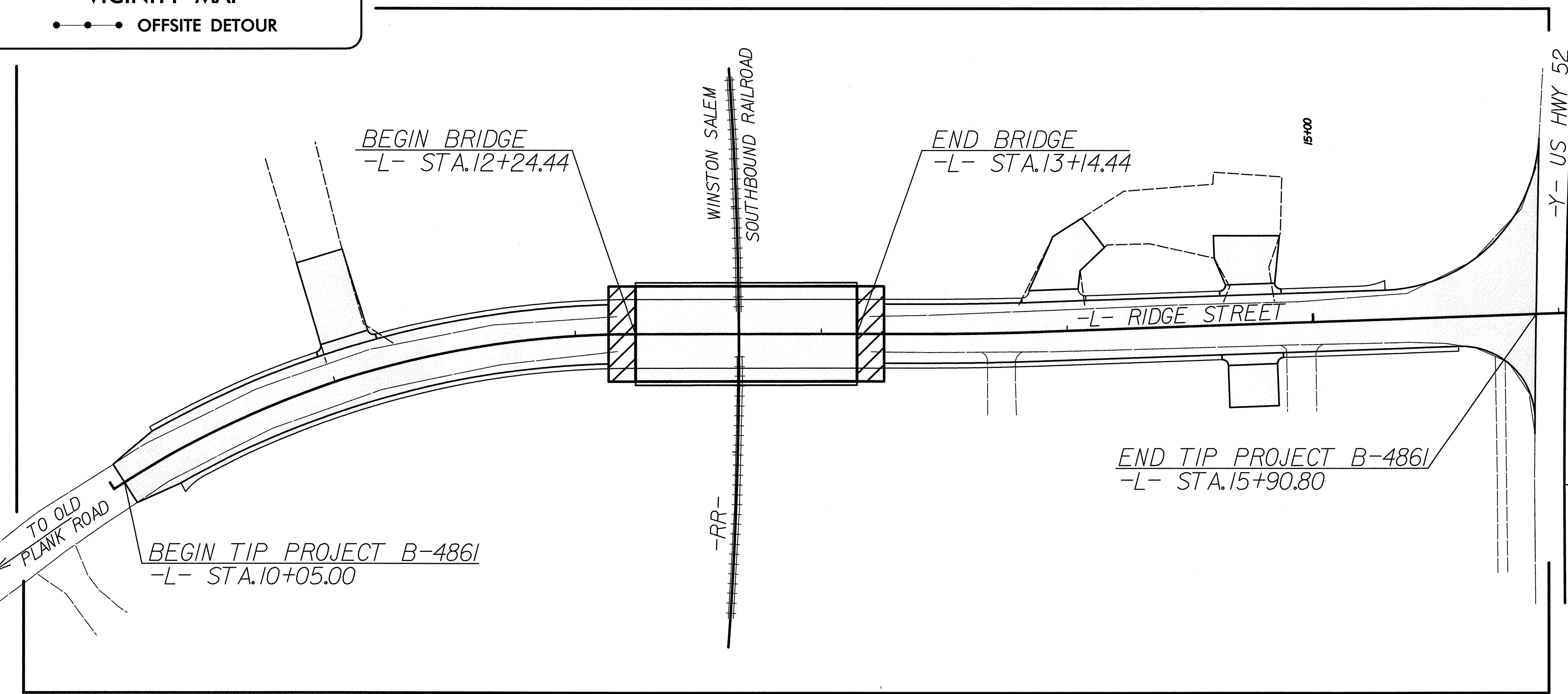
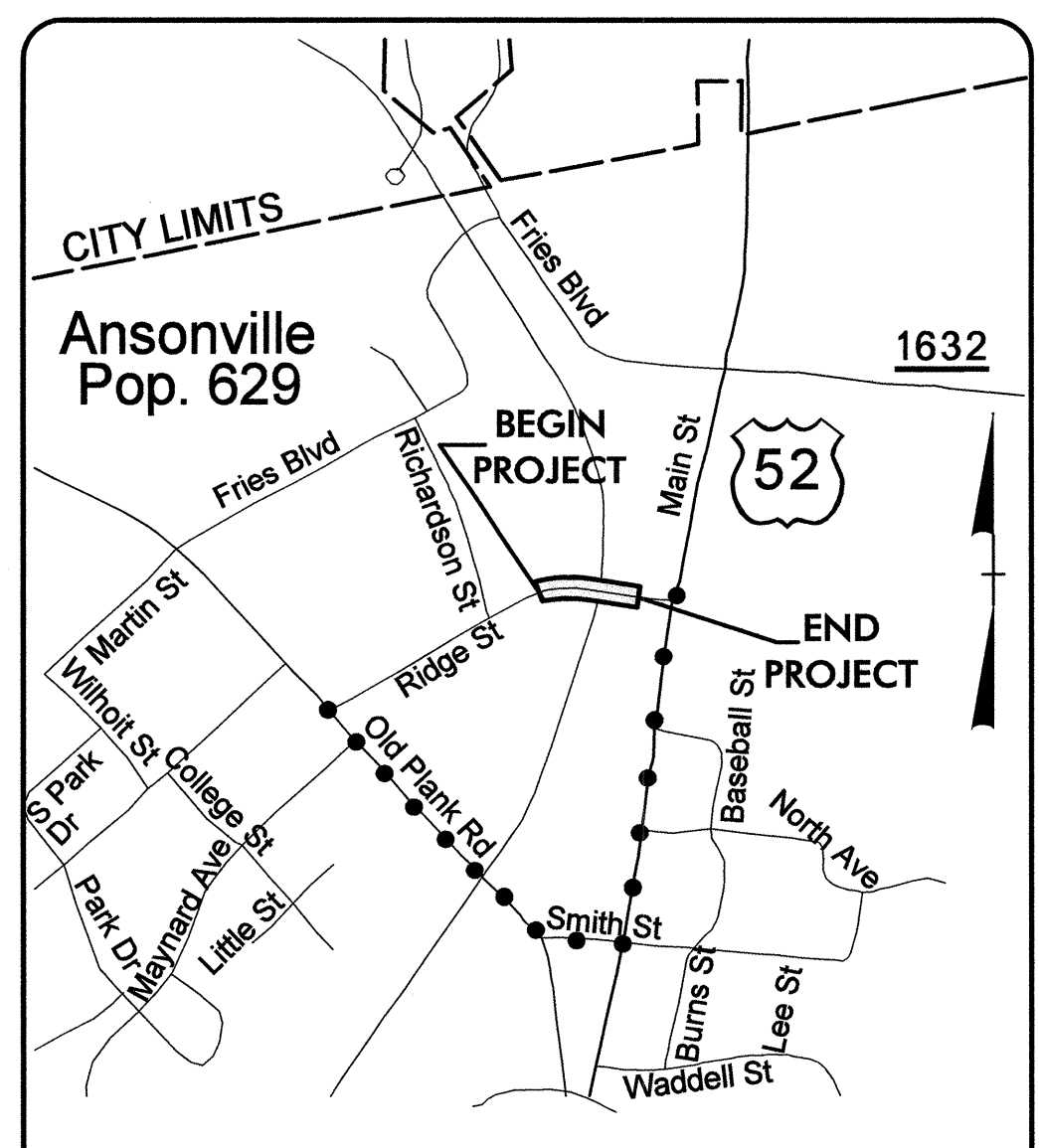
**LOCATION: BRIDGE NO. 88 ON RIDGE STREET OVER  
WINSTON SALEM SOUTHBOUND RAILROAD**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURE, & UTILITIES**

**EROSION AND SEDIMENT CONTROL MEASURES**

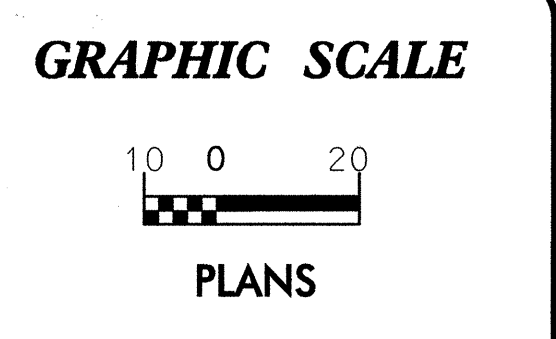
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	△△△
1622.01	Temporary Berms and Slope Drains	—
	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	⊗
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	⊗
	Temporary Rock Silt Check Type-B	▶
	Wattle / Coir Fiber Wattle	⌒
	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.**



**TIP: B-4861**

**CONTRACT: C203003**



**PLANS PREPARED BY:**

**TGS ENGINEERS**  
SUIITE 141  
975 WALNUT STREET  
CARY, NC 27511  
PH (919) 319-8850

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**JIMMY L. TERRY, PE**  
PROJECT ENGINEER  
LEVEL III CERTIFICATION NO. 3145

**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.**

**PLANS PREPARED FOR:**

**TOWN OF ANSONVILLE**

P.O. BOX 437.  
ANSONVILLE, NC 28007

**2006 STANDARD SPECIFICATIONS**

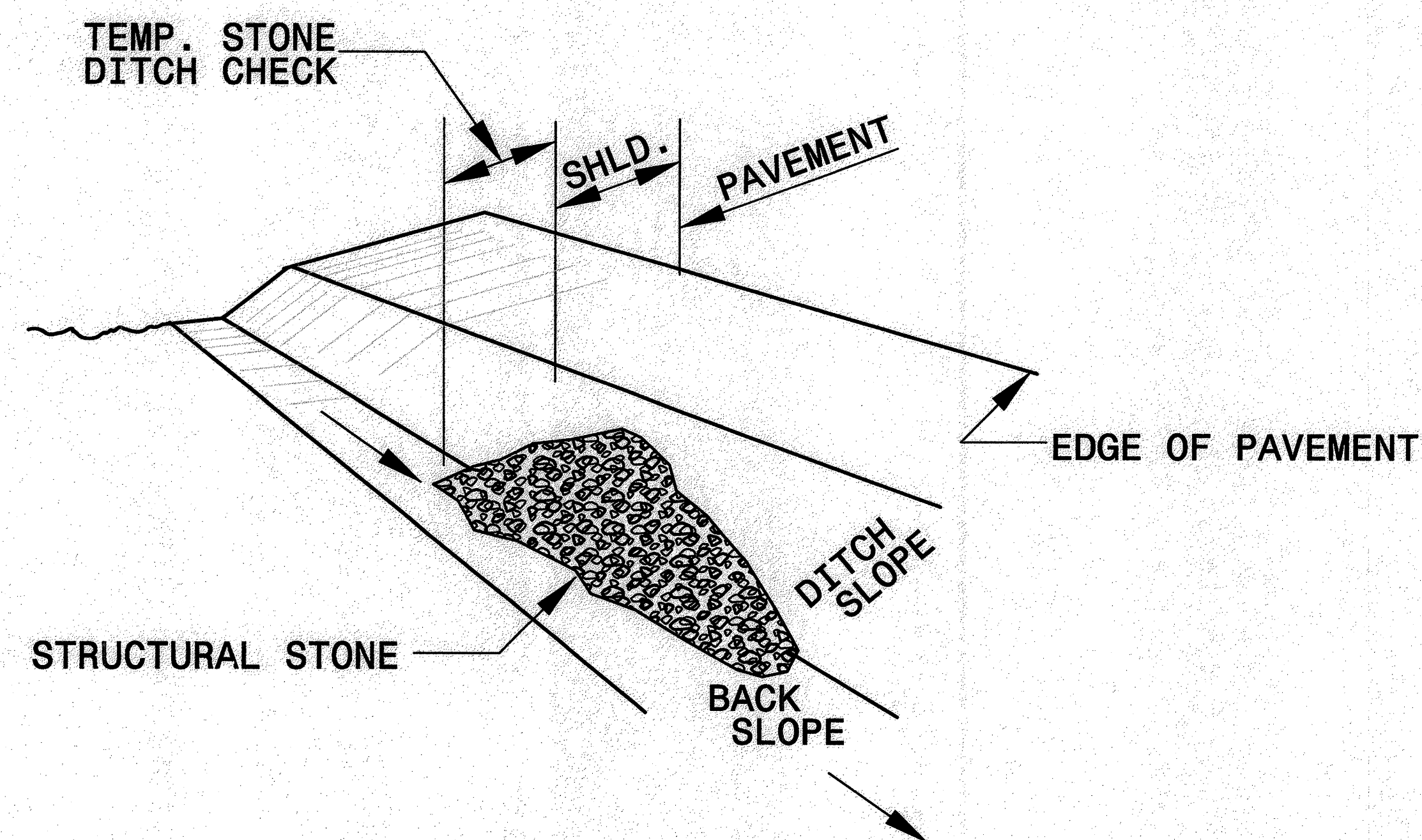
**Roadway Standard Drawings**

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.

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

PROJECT REFERENCE NO. B-4861	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

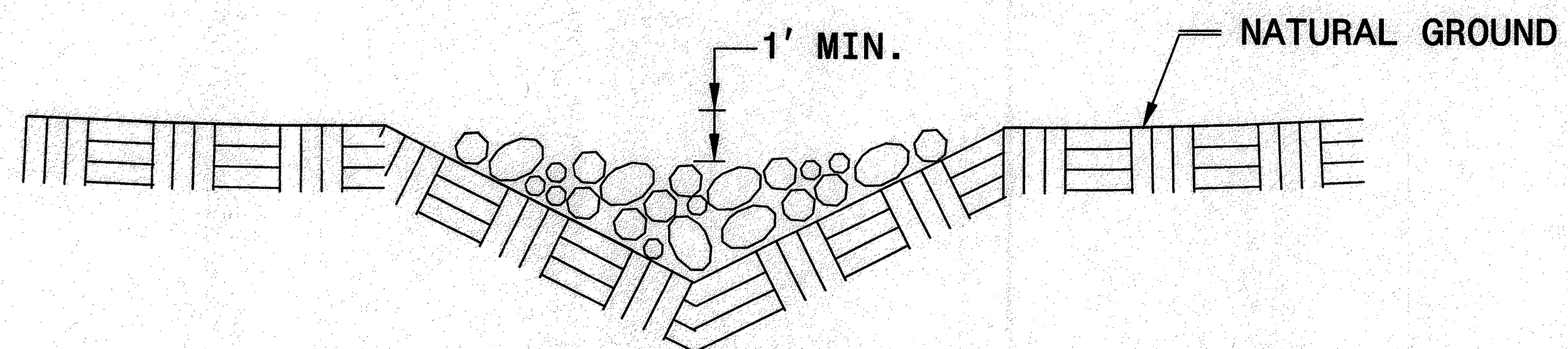


**ISOMETRIC VIEW**

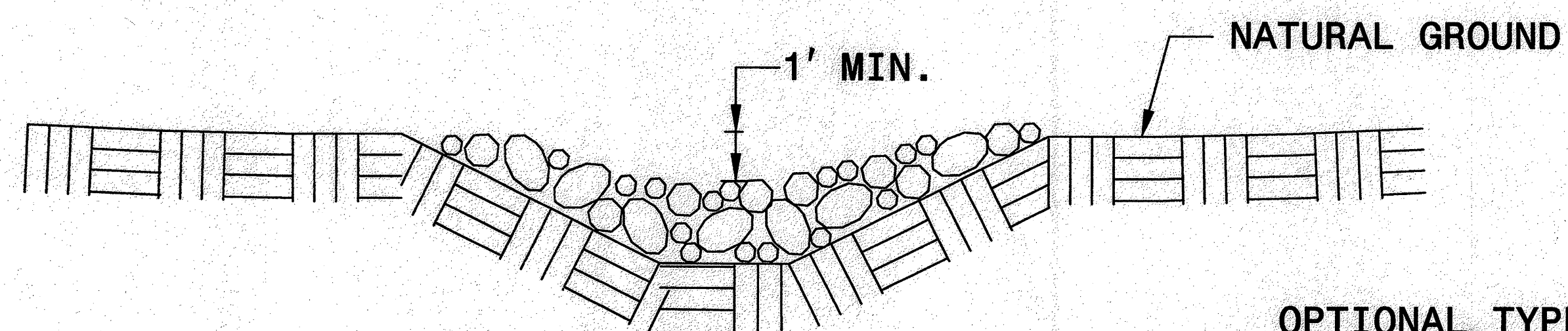
**NOTES:**

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

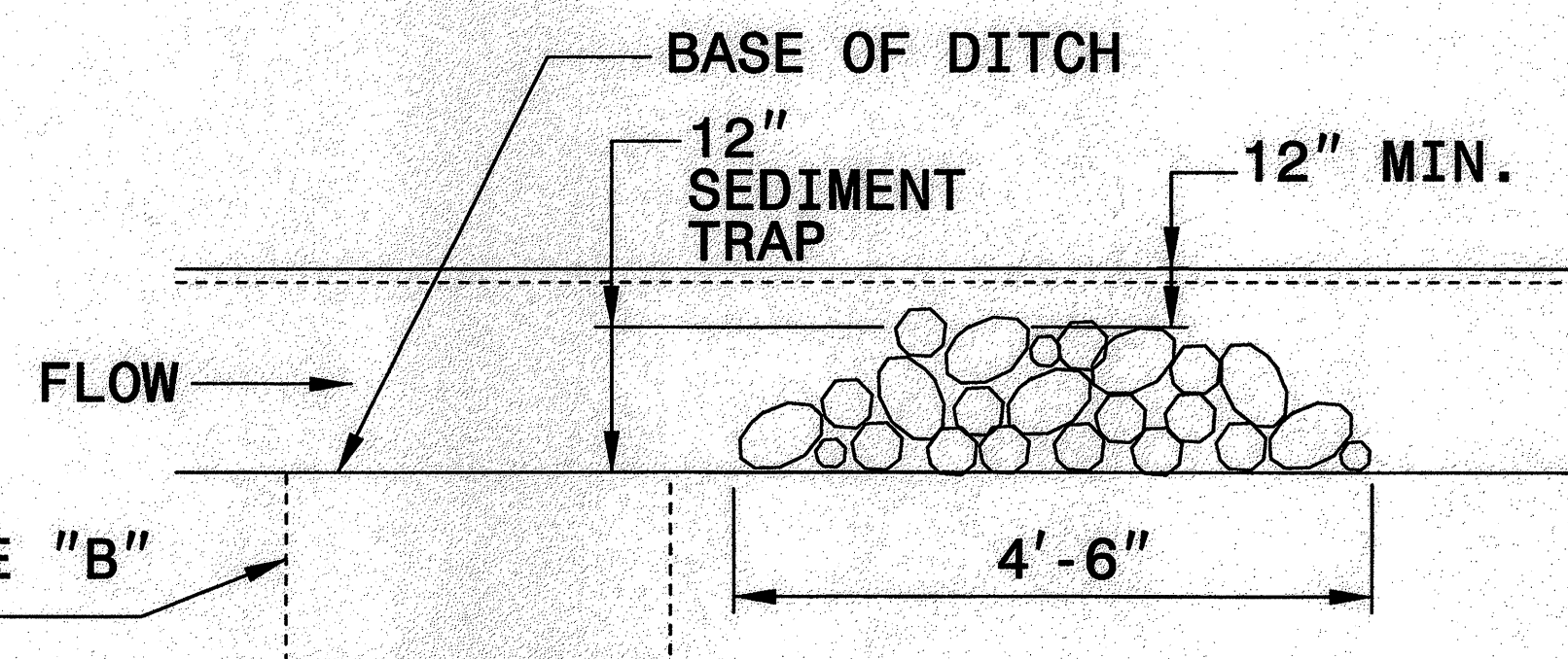
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION VEE DITCH**



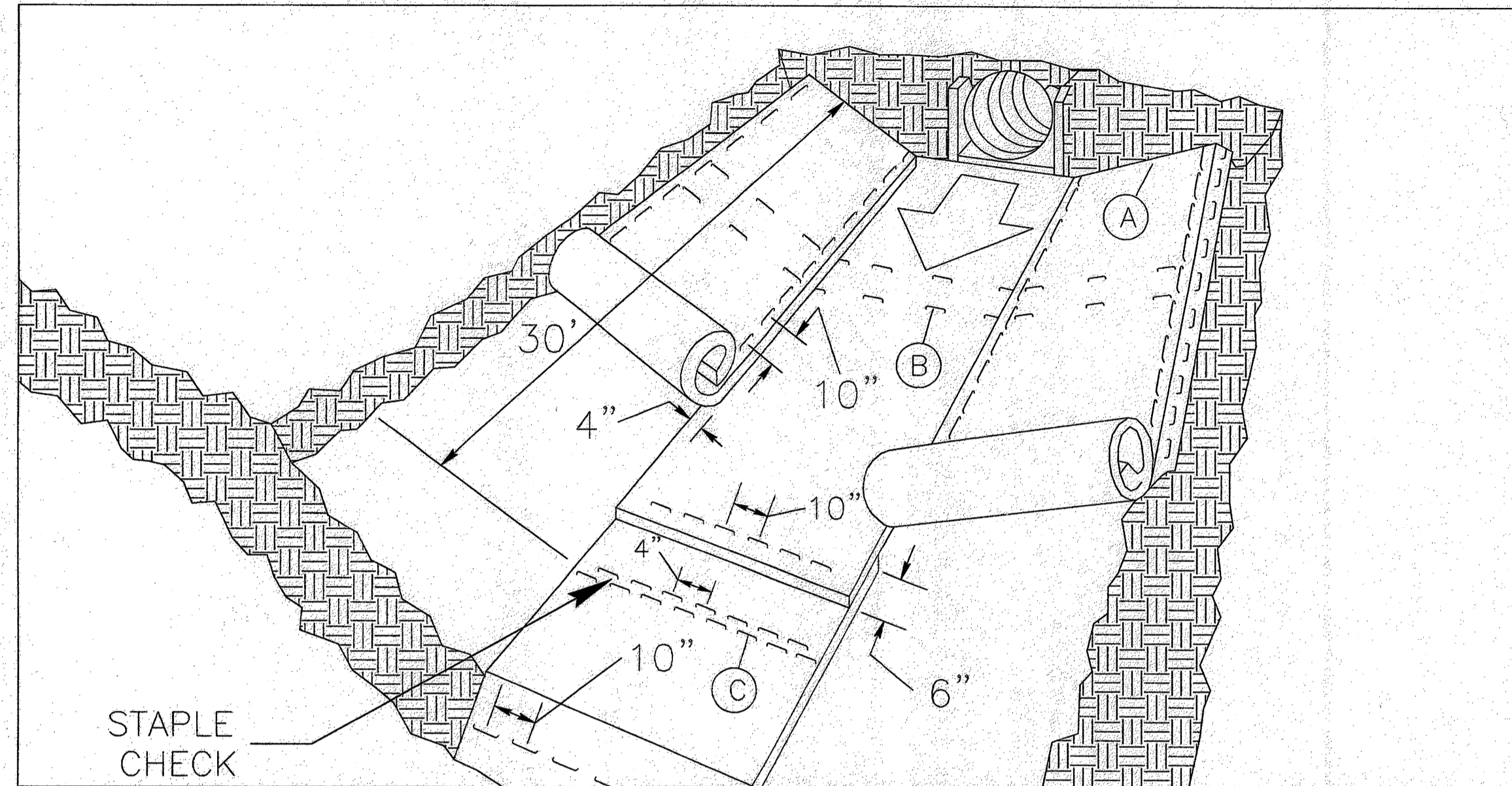
**CROSS SECTION TRAPEZOIDAL DITCH**



**ELEVATION VIEW**

PROJECT REFERENCE NO. B-4861	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# MATTING INSTALLATION DETAIL



**MATTING IN DITCHES**

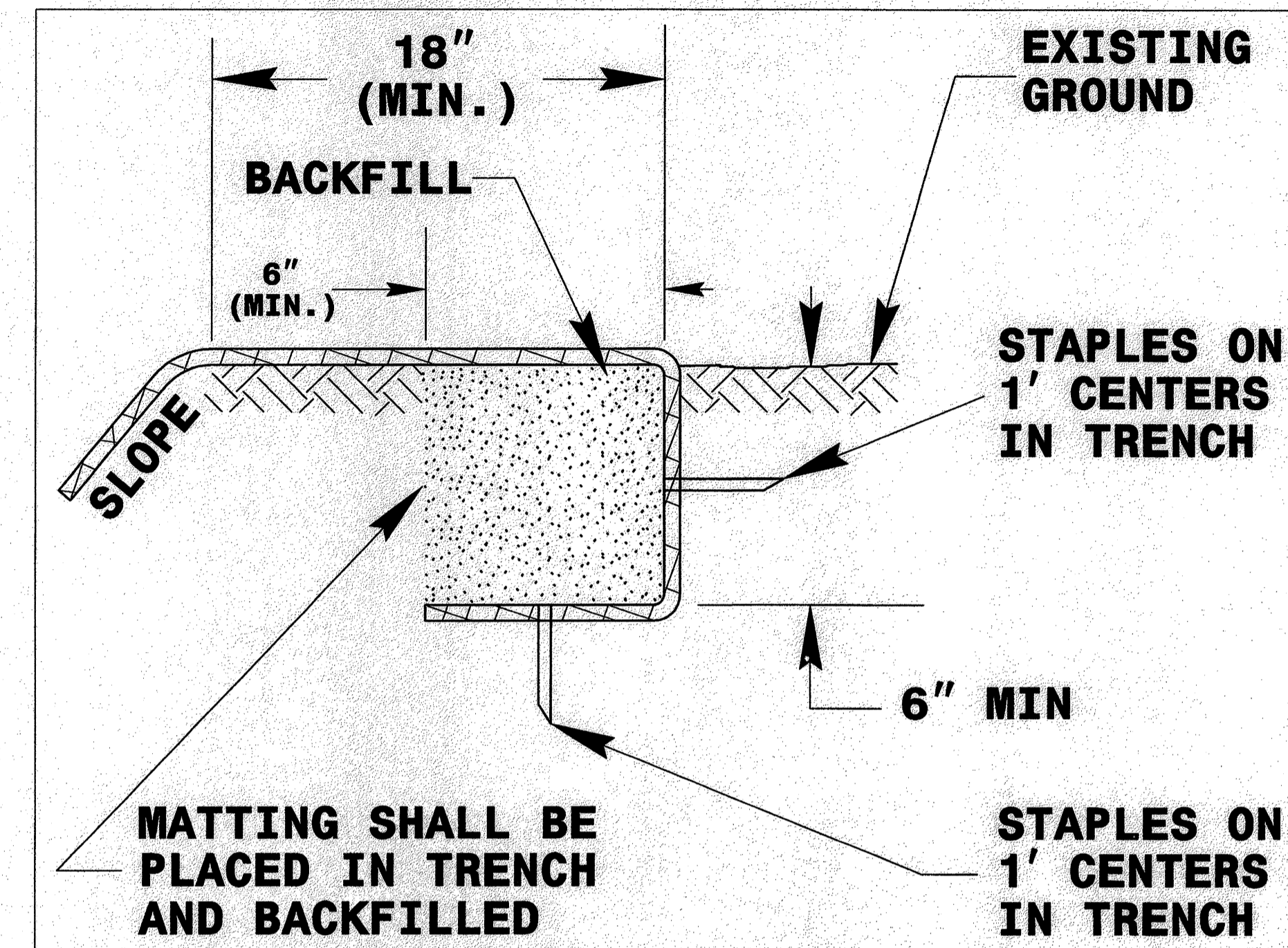
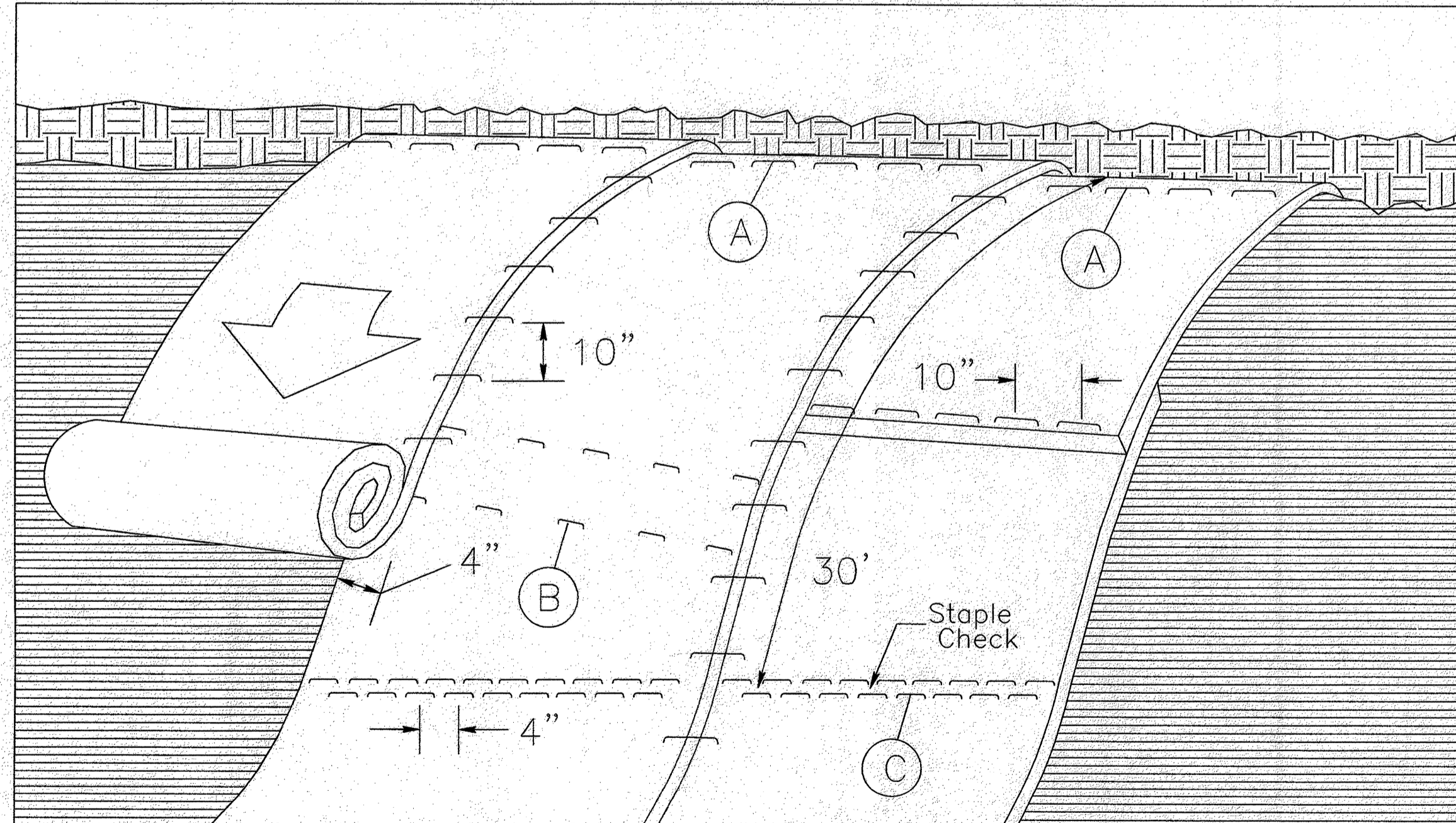


DIAGRAM (A)



**MATTING ON SLOPES**

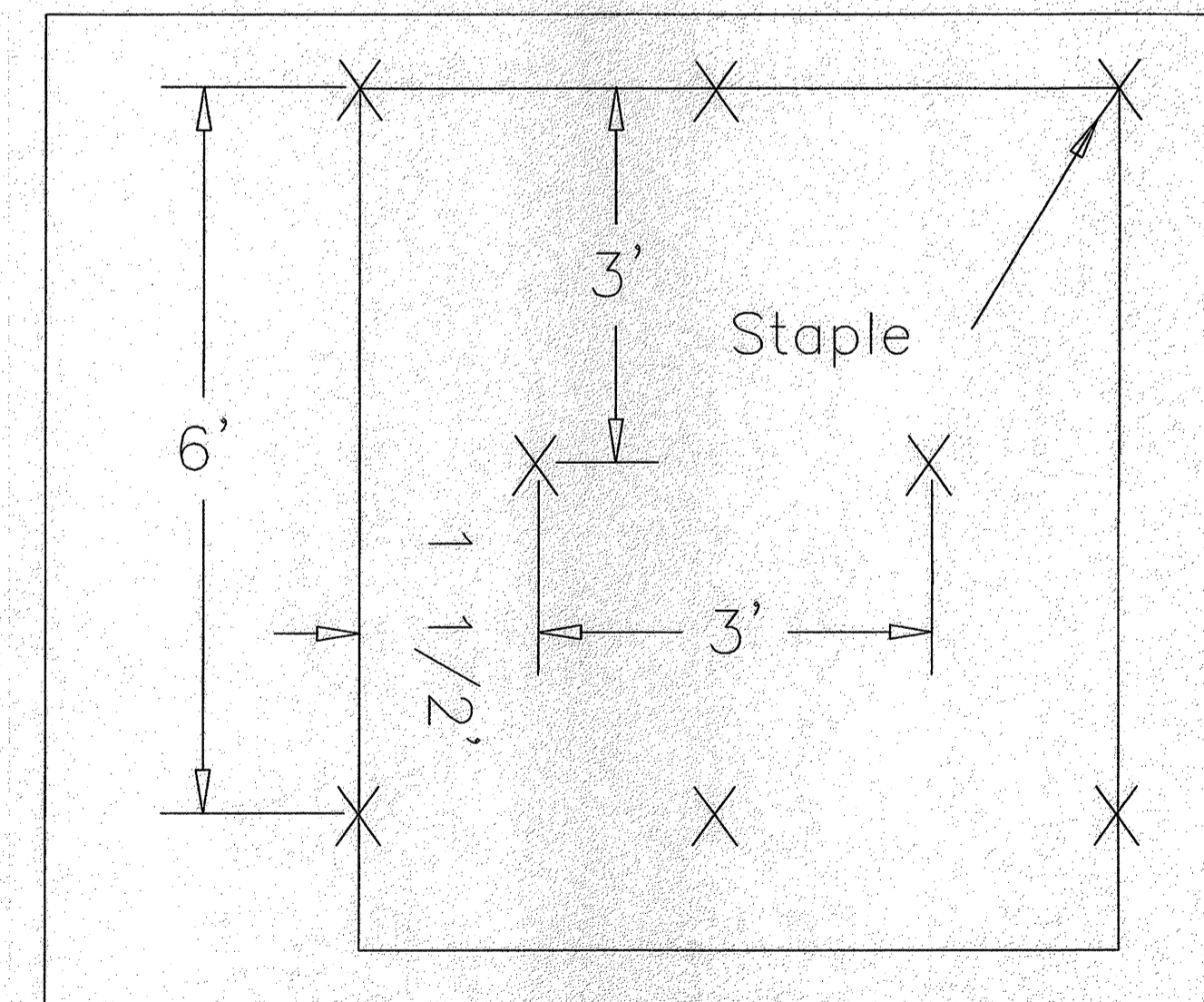


DIAGRAM (B)

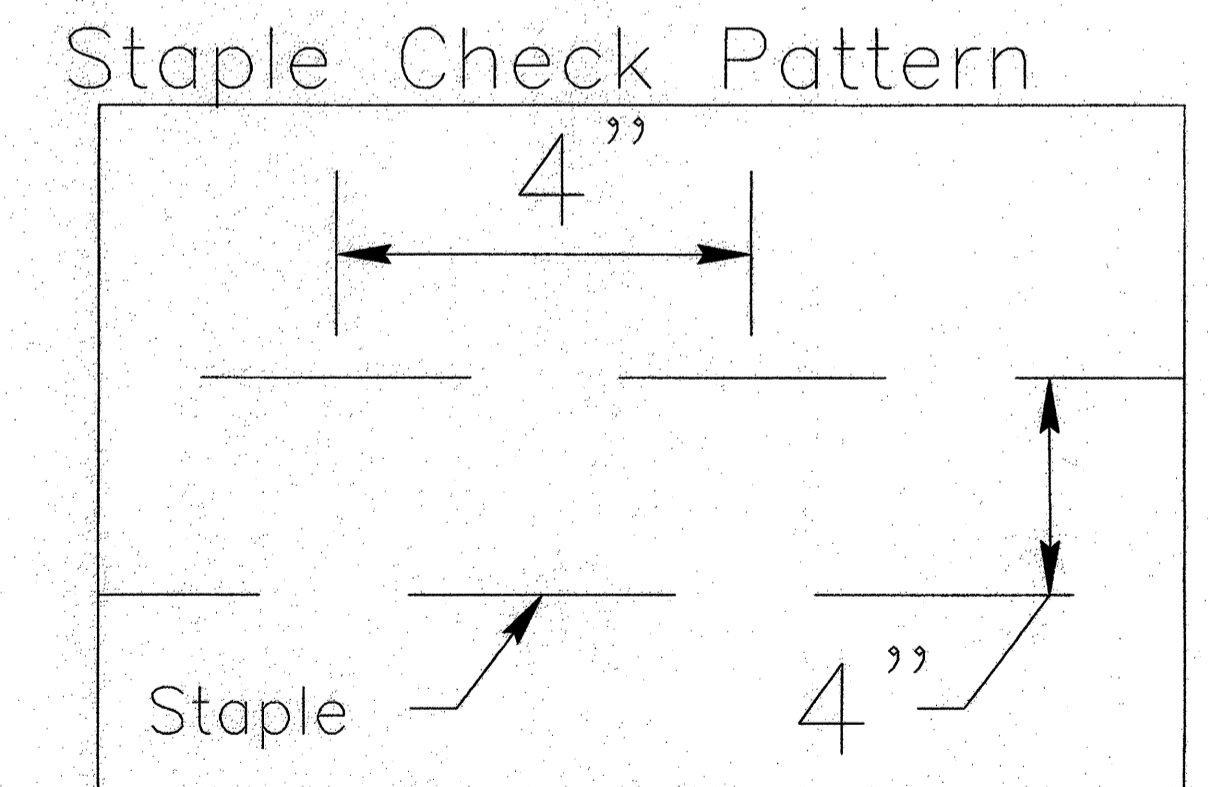


DIAGRAM (C)

**NOTES:**

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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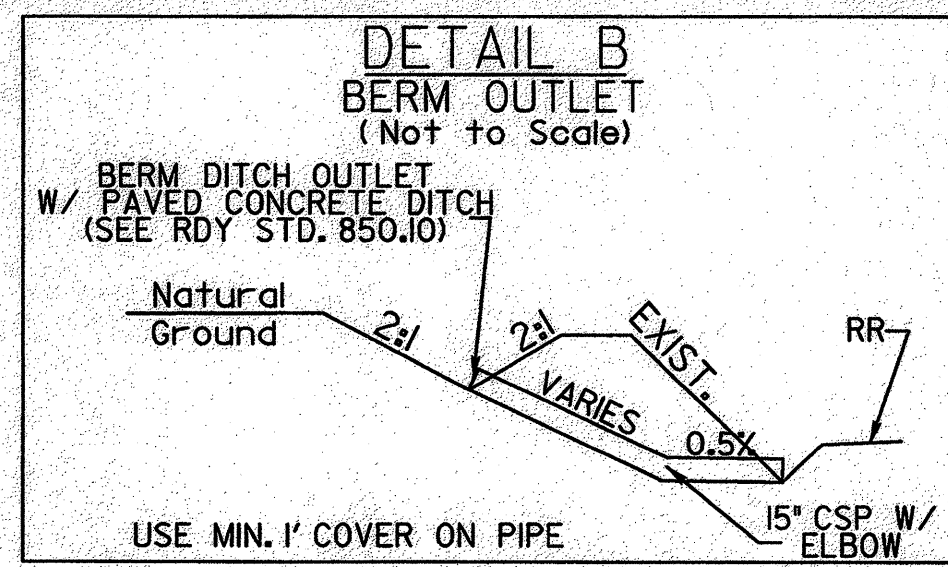
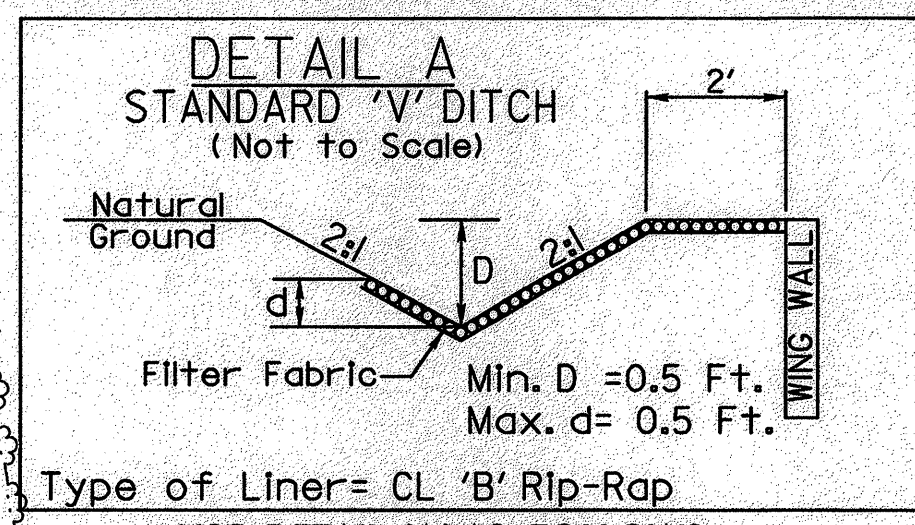
PROJECT REFERENCE NO. <i>B-486I</i>	SHEET NO. <i>EC-2B</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***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.

# EROSION CONTROL PLAN

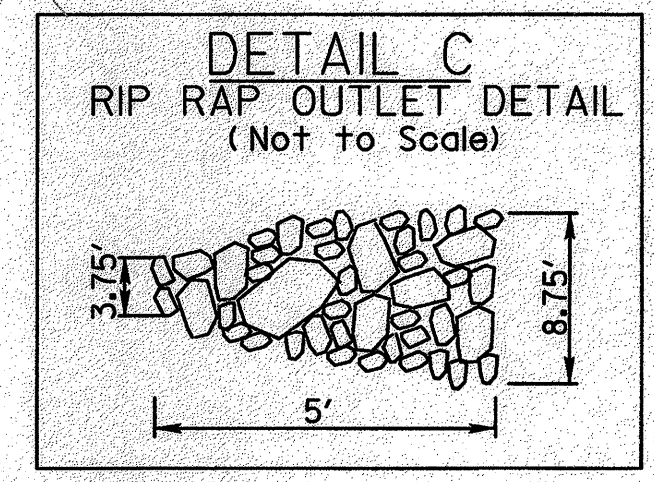
PROJECT REFERENCE NO. B-4861	SHEET NO. EC-3/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



Type of Liner = CL 'B' Rip-Rap

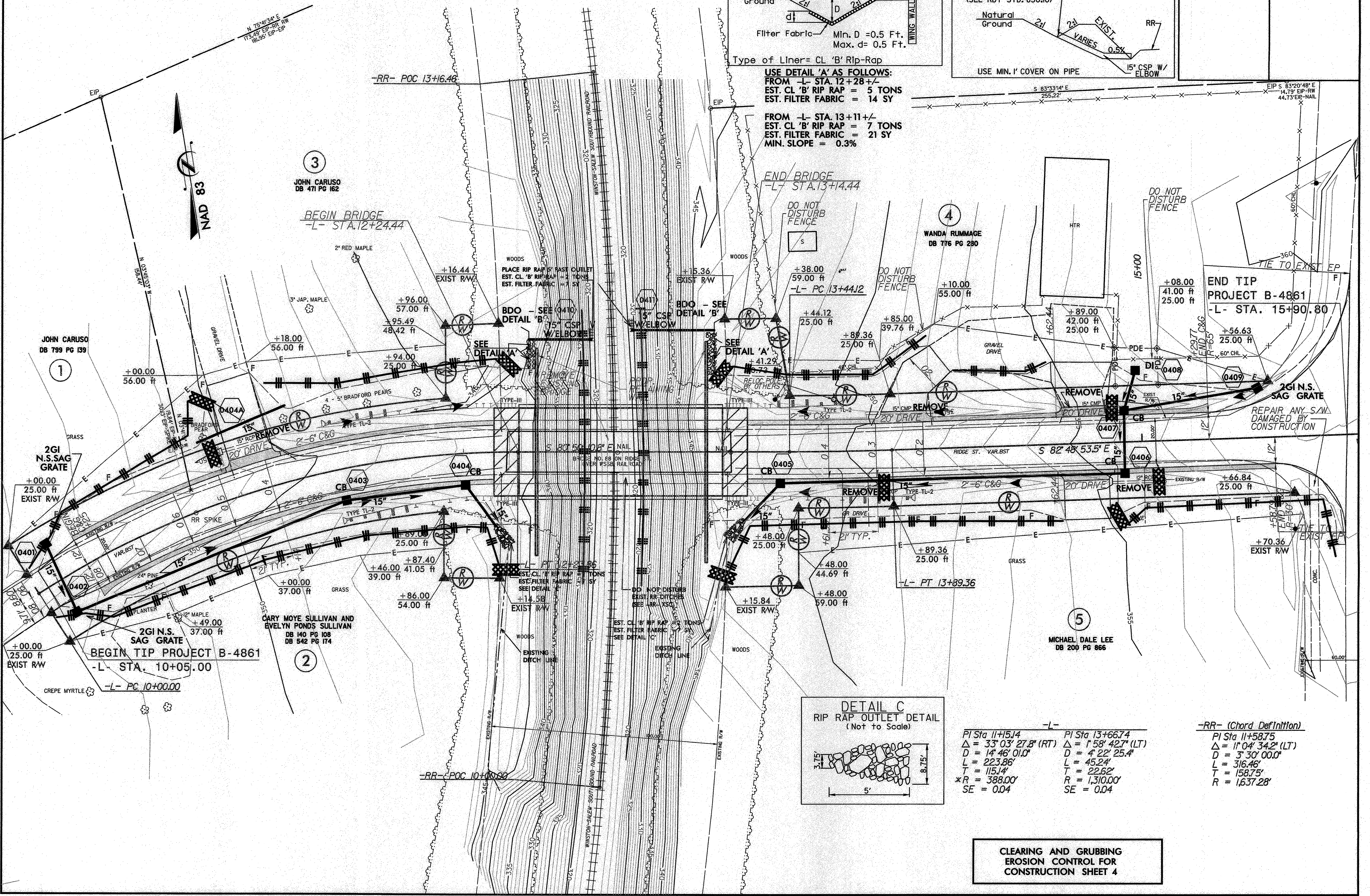
USE DETAIL 'A' AS FOLLOWS:  
 FROM -L- STA. 12+28+/-  
 EST. CL 'B' RIP RAP = 5 TONS  
 EST. FILTER FABRIC = 14 SY

FROM -L- STA. 13+11+/-  
 EST. CL 'B' RIP RAP = 7 TONS  
 EST. FILTER FABRIC = 21 SY  
 MIN. SLOPE = 0.3%



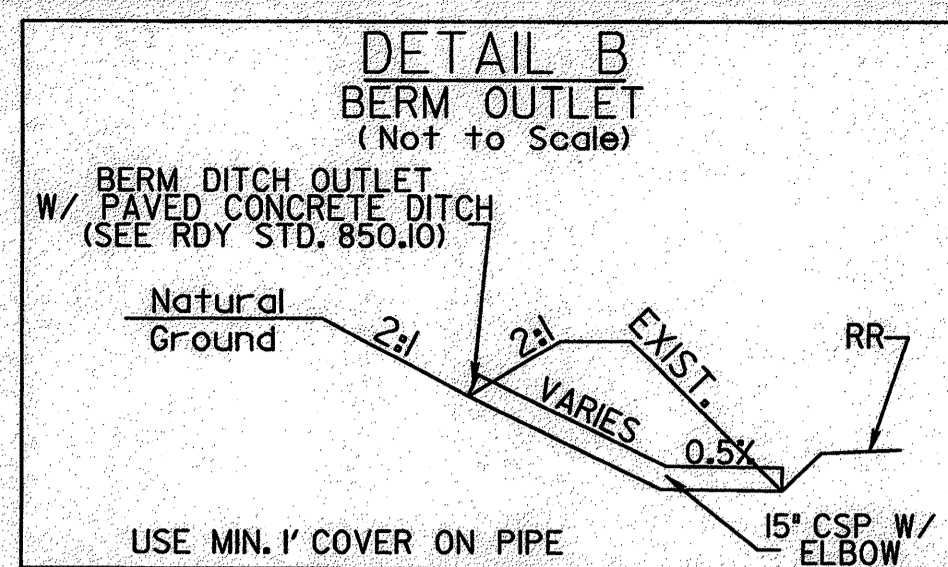
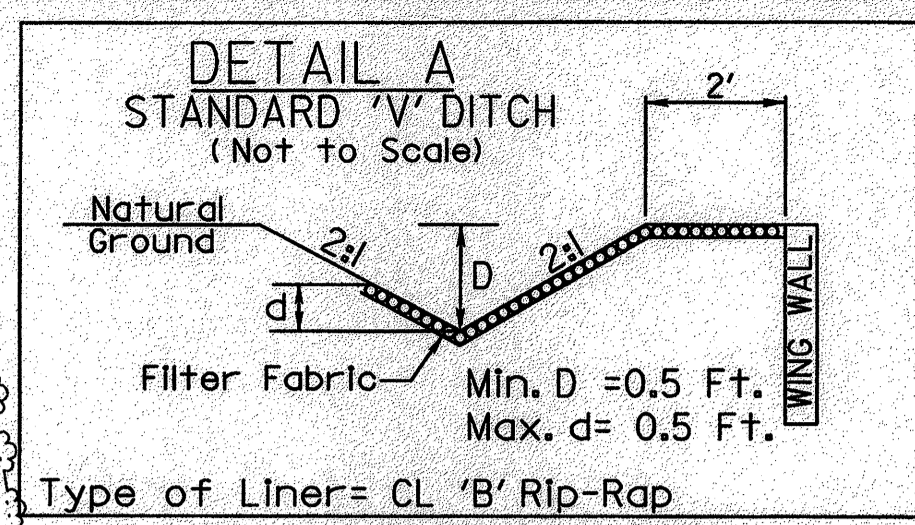
-L-	-L-	-RR- (Chord Definition)
PI Sta 11+15.14	PI Sta 13+66.74	PI Sta 11+58.75
$\Delta = 33^{\circ} 03' 27.8''$ (RT)	$\Delta = 1^{\circ} 58' 42.7''$ (LT)	$\Delta = 1^{\circ} 04' 34.2''$ (LT)
D = 14' 46' 01.0"	D = 4' 22' 25.4"	D = 3' 30' 00.0"
L = 223.86'	L = 45.24'	L = 316.46'
T = 115.14'	T = 22.62'	T = 158.75'
*R = 388.00'	R = 1,310.00'	R = 1,637.28'
SE = 0.04	SE = 0.04	

CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 4



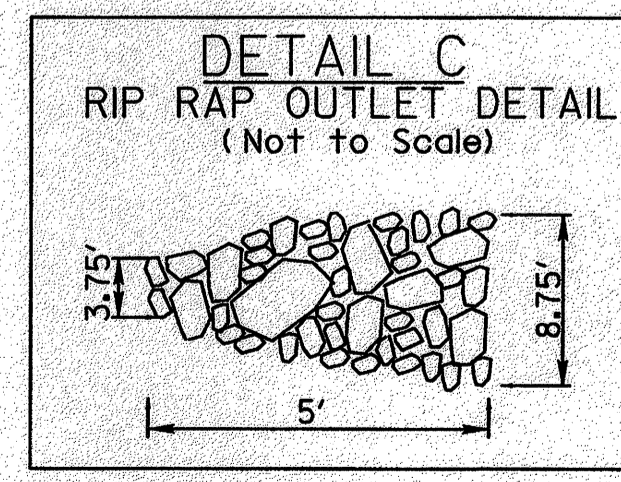
# EROSION CONTROL PLAN

PROJECT REFERENCE NO. <b>B-4861</b>	SHEET NO. <b>EC-4/CONST.4</b>
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



**USE DETAIL 'A' AS FOLLOWS:**  
FROM -L- STA. 12+28+/-  
EST. CL 'B' RIP RAP = 5 TONS  
EST. FILTER FABRIC = 14 SY

FROM -L- STA. 13+11+/-  
EST. CL 'B' RIP RAP = 7 TONS  
EST. FILTER FABRIC = 21 SY  
MIN. SLOPE = 0.3%



-L- PI Sta 11+15.14 Δ = 33° 03' 27.8" (RT) D = 14' 46' 01.0" L = 223.86' T = 115.14' *R = 388.00' SE = 0.04	-L- PI Sta 13+66.74 Δ = 1° 58' 42.7" (LT) D = 4' 22' 25.4" L = 45.24' T = 22.62' R = 1,310.00' SE = 0.04
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-RR- (Chord Definition)  
PI Sta 11+58.75  
Δ = 11° 04' 34.2" (LT)  
D = 3' 30' 00.0"  
L = 316.46'  
T = 158.75'  
R = 1,637.28'

