

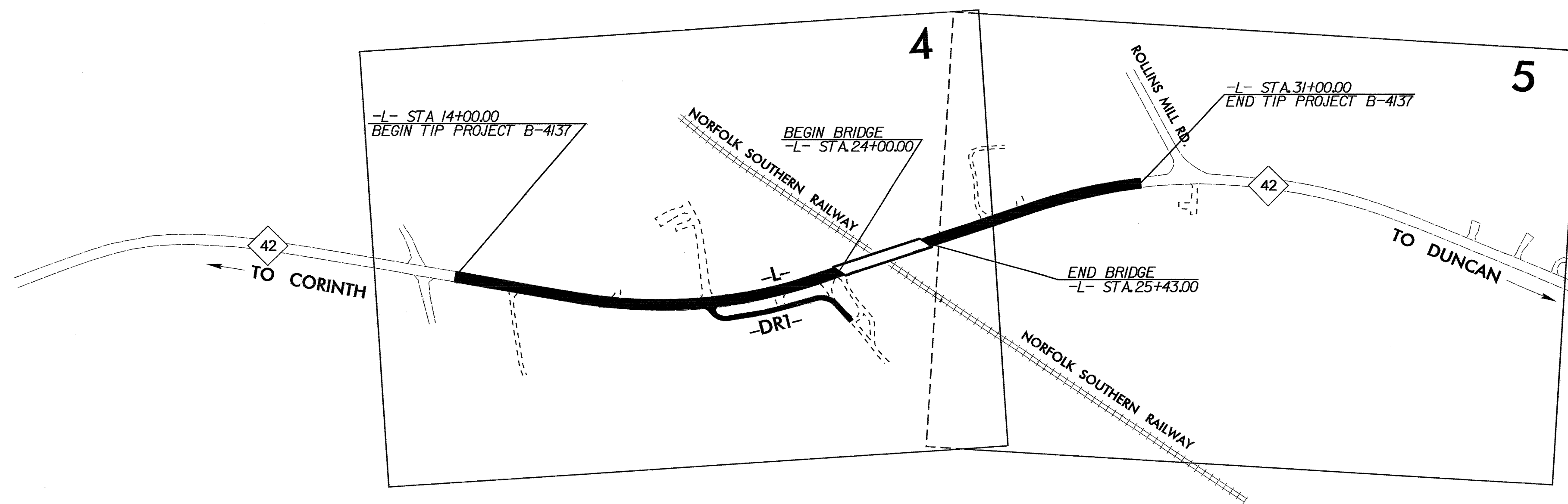
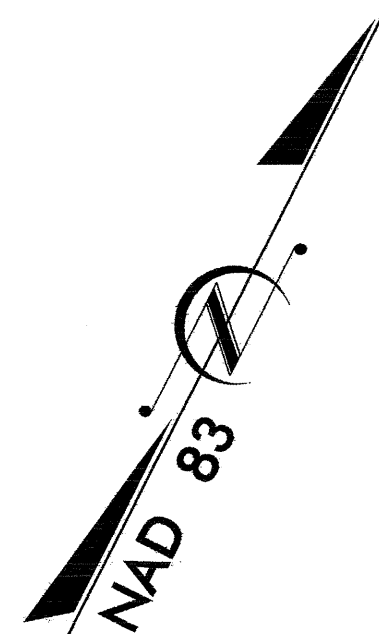
TIP PROJECT: B-4137

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

HARNETT COUNTY

LOCATION: BRIDGE No. 35 OVER NORFOLK AND SOUTHERN RAILROAD ON NC 42

TYPE OF WORK: GRADING, DRAINAGE, PAVING, GUARDRAIL, STRUCTURE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4137	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

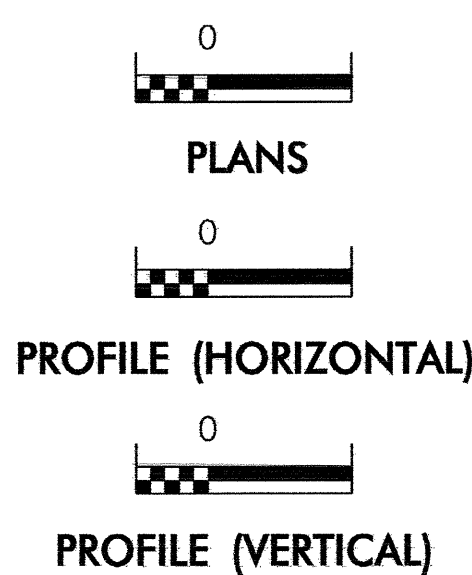
Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSO
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	~ ~ ~ ~ ~
1622.01	Temporary Berms and Slope Drains	~ ~ ~ ~ ~
1630.01	Riser Basin	⊙
	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-B	▶
	Wattle	⌒
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.

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

HIGH QUALITY WATER(S) EXIST ON THIS PROJECT
High Quality Water Zone(s) Exist From Sta. 14+00 to Sta. 31+00 Refer To E. C. Special Provisions for Special Considerations.

GRAPHIC SCALE



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

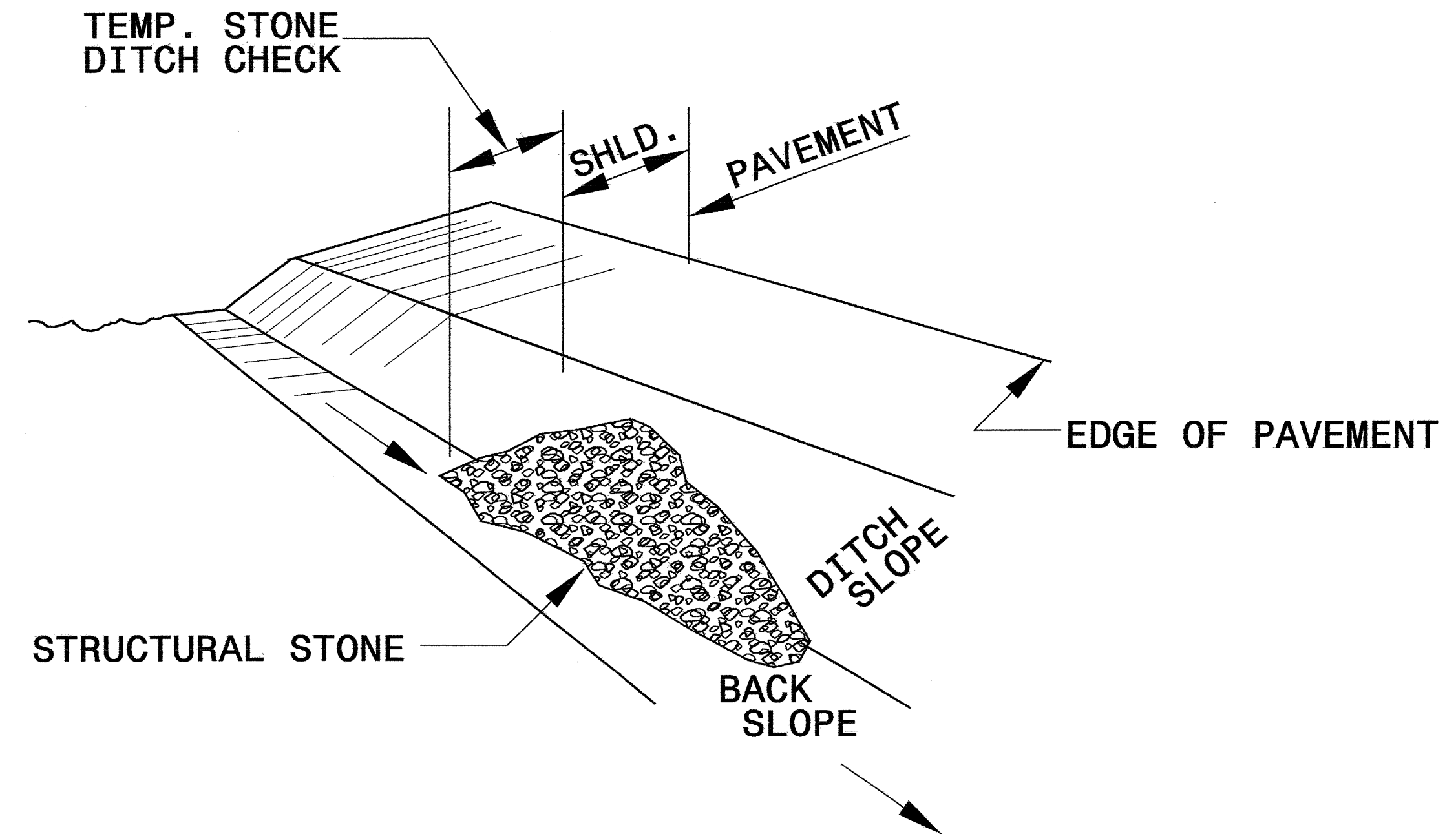
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.03 Rock Inlet Sediment Trap Type C
1606.01 Special Sediment Control Fence	1633.01 Temporary Rock Silt Check Type A
1607.01 Gravel Construction Entrance	1634.02 Temporary Rock Sediment Dam Type B
1622.01 Temporary Berms and Slope Drains	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.03 Temporary Silt Ditch	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	

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PROJECT REFERENCE NO. <i>B-4137</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

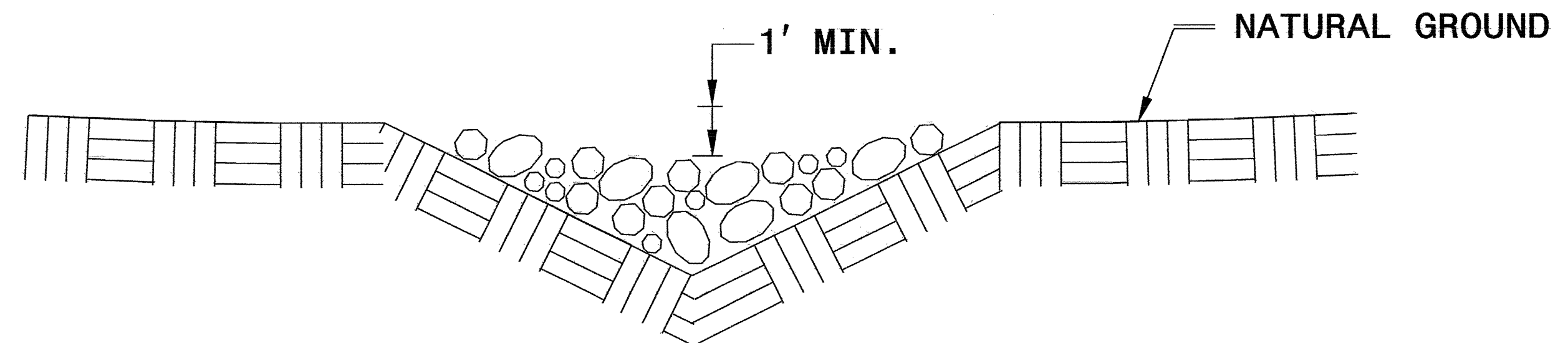


ISOMETRIC VIEW

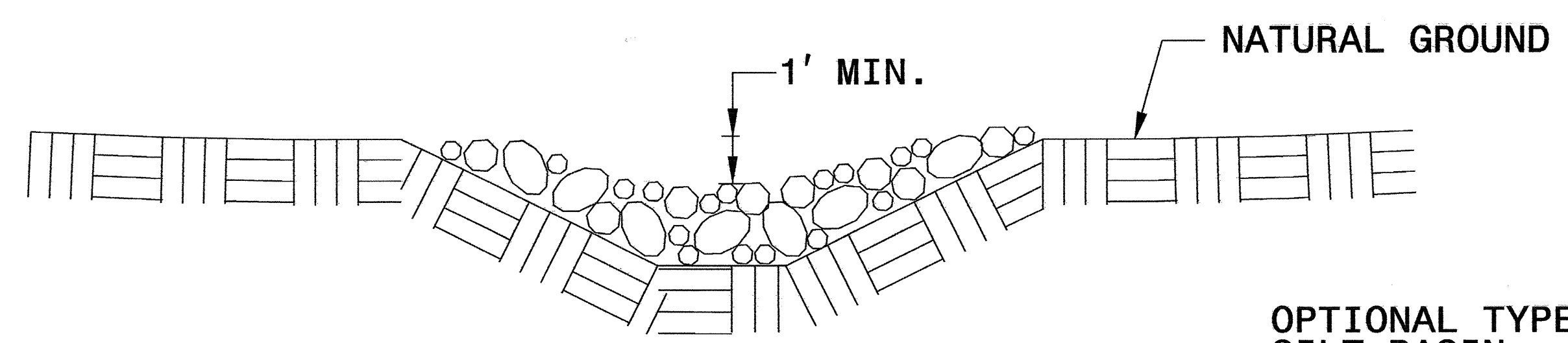
NOTES:

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

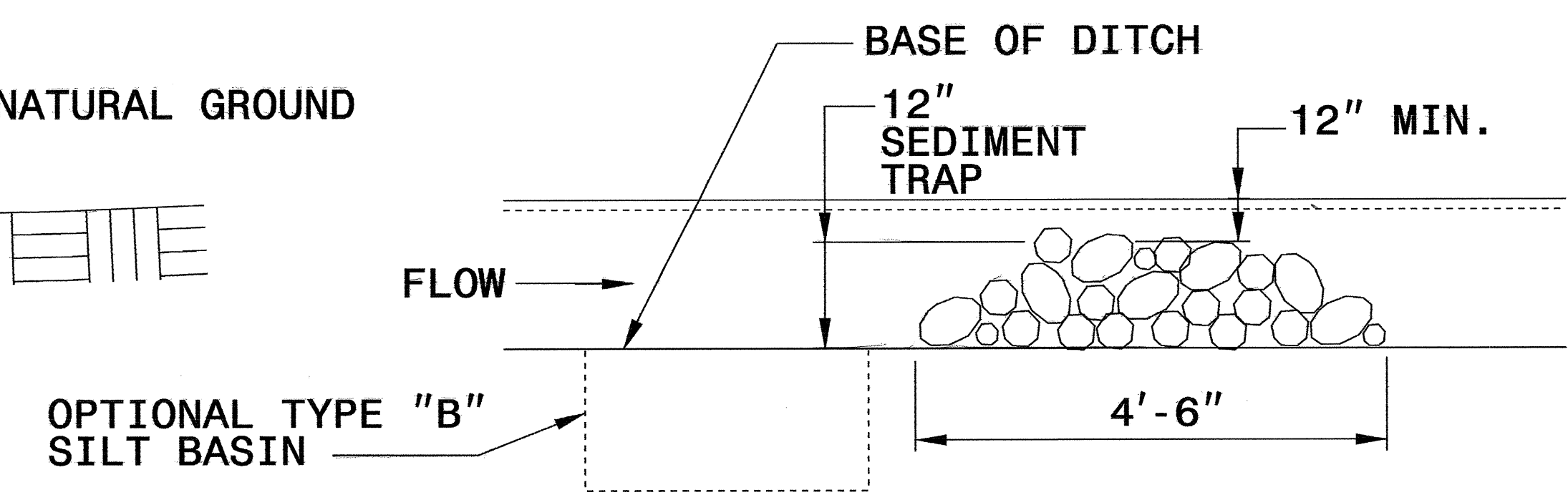
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



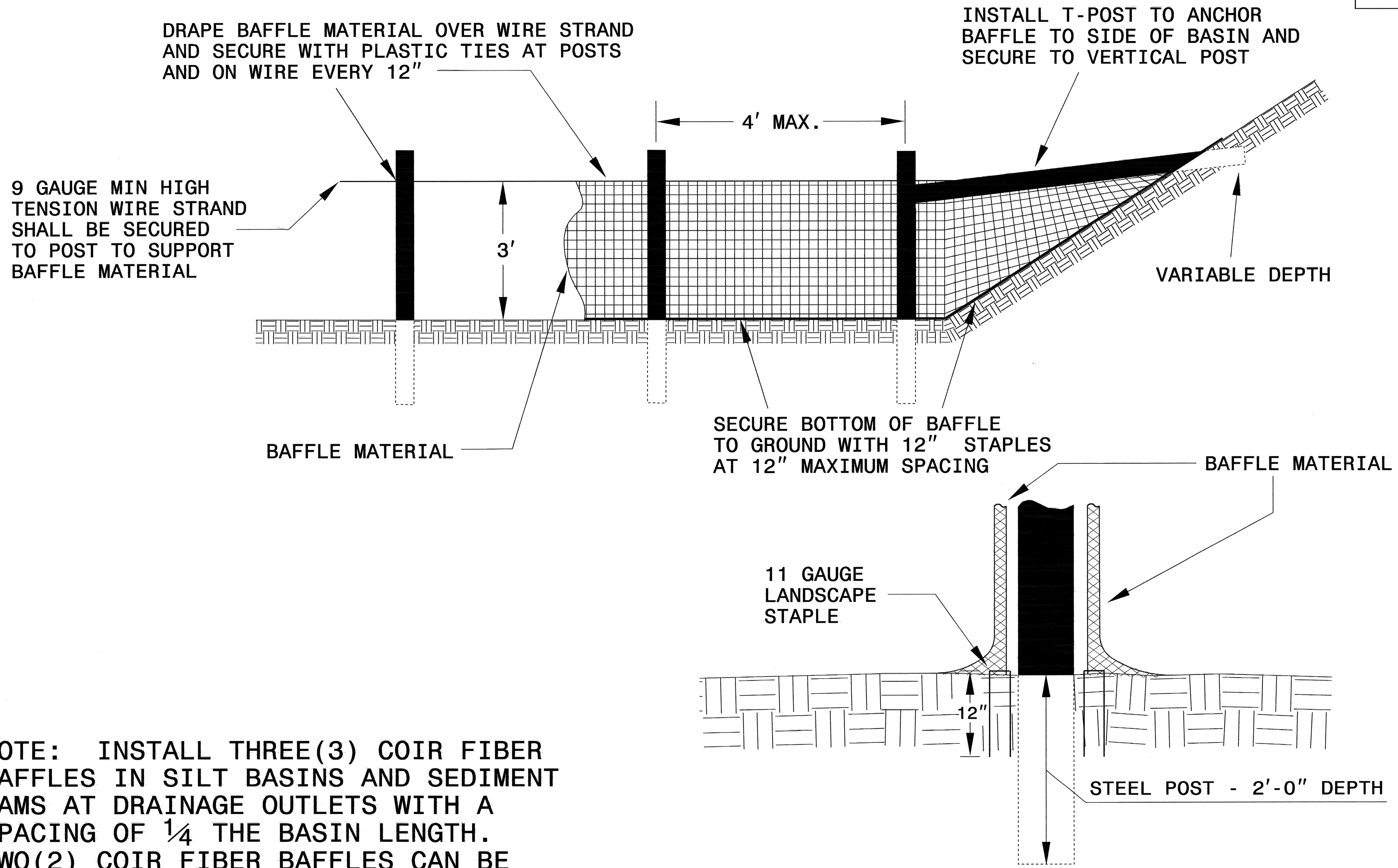
CROSS SECTION TRAPEZOIDAL DITCH



ELEVATION VIEW

PROJECT REFERENCE NO. B-4137	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

PROJECT REFERENCE NO. B-4137	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS 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.

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

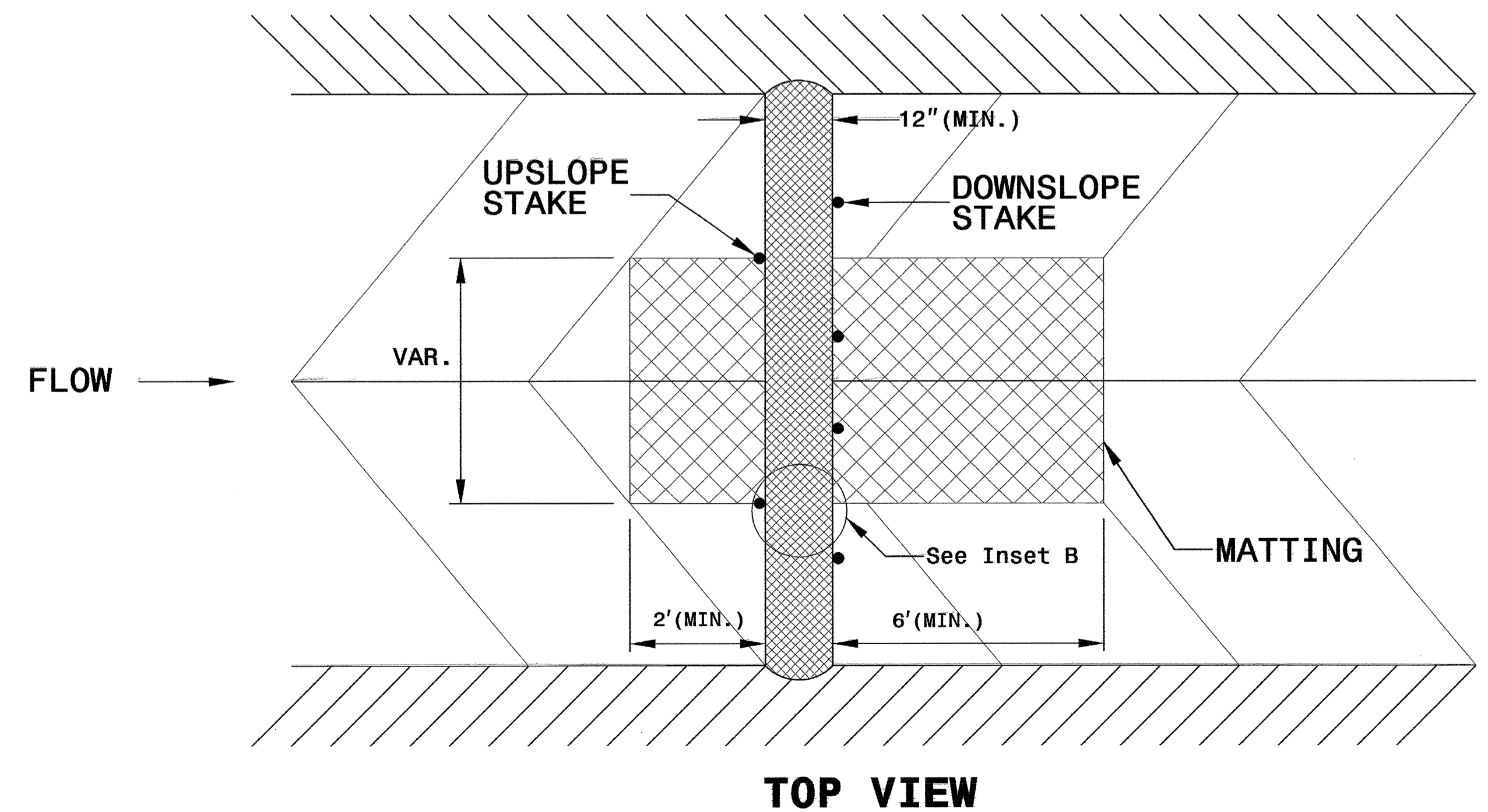
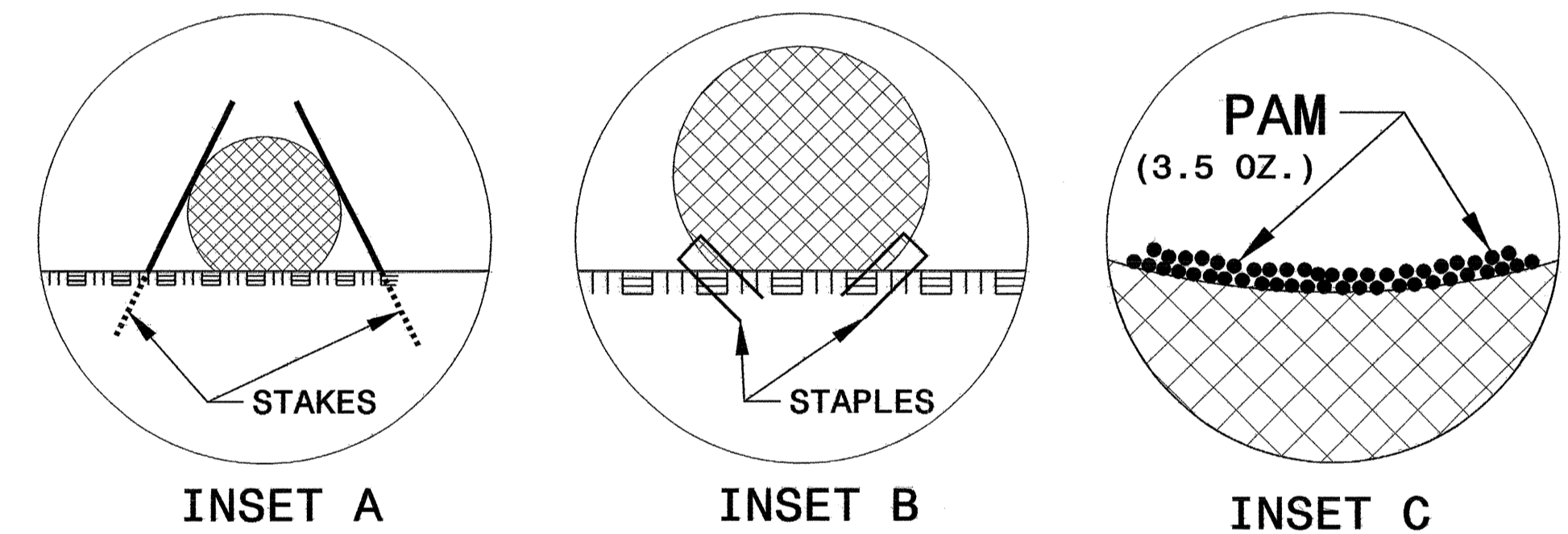
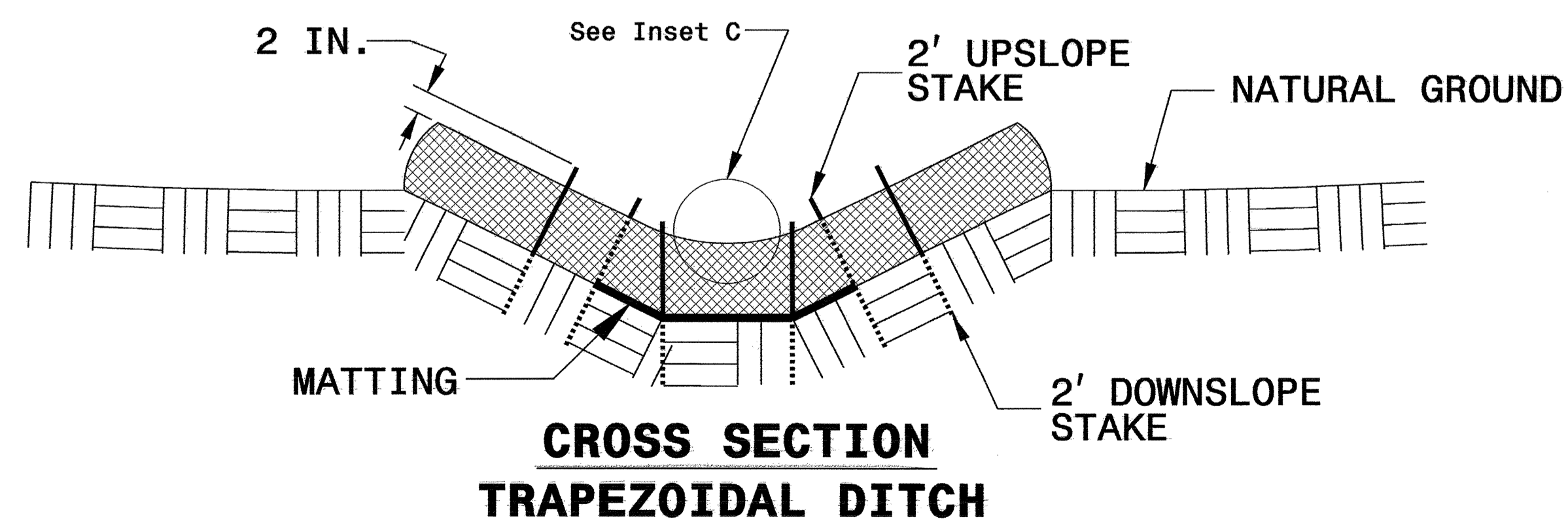
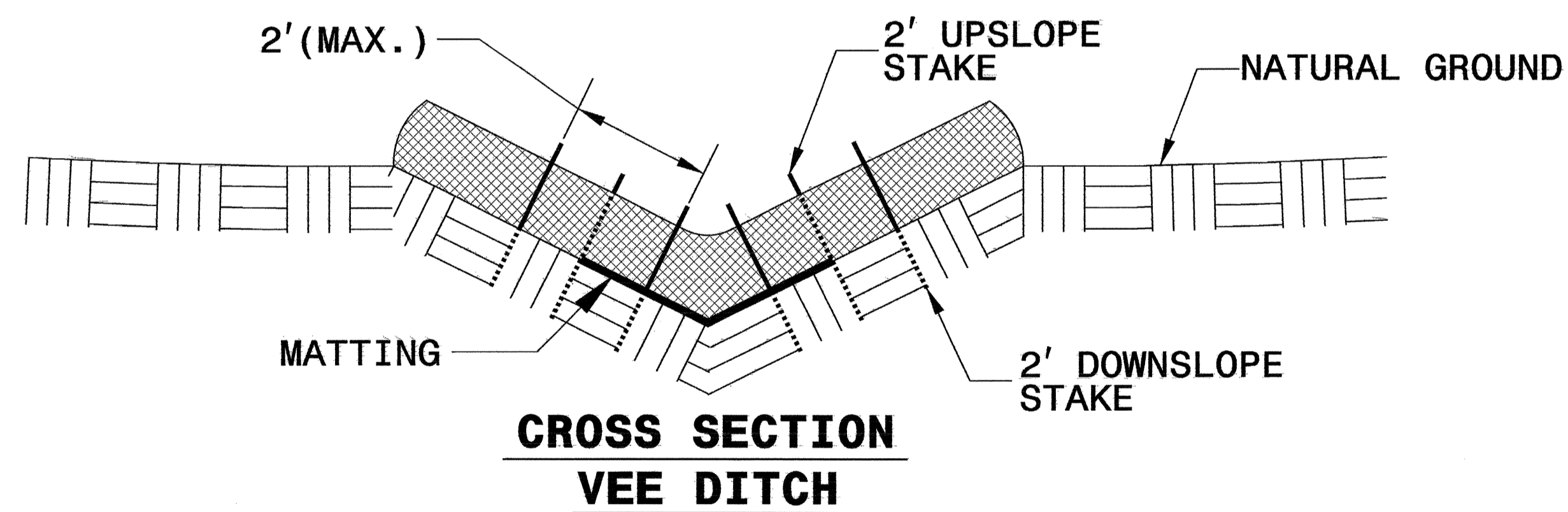
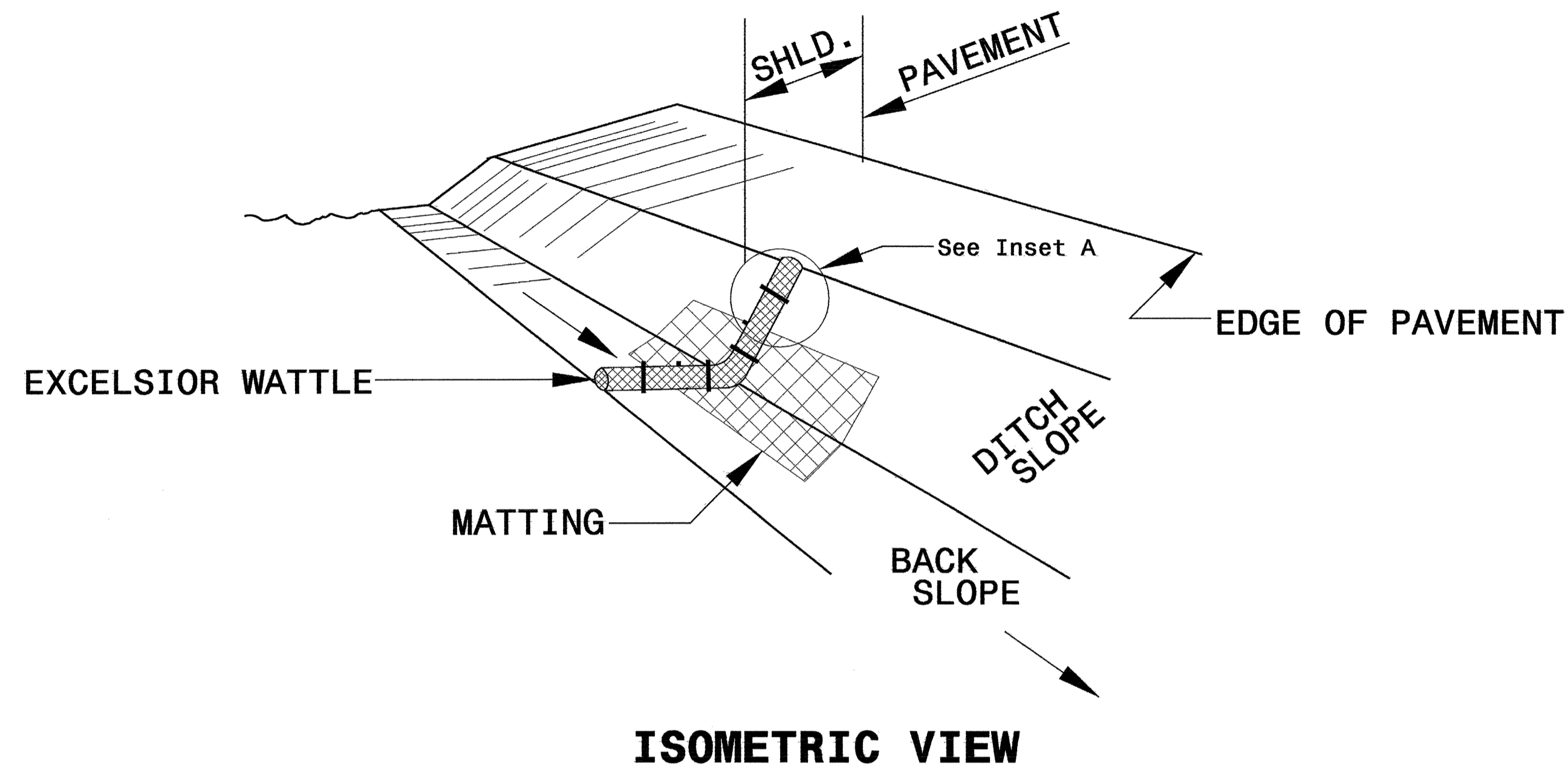
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

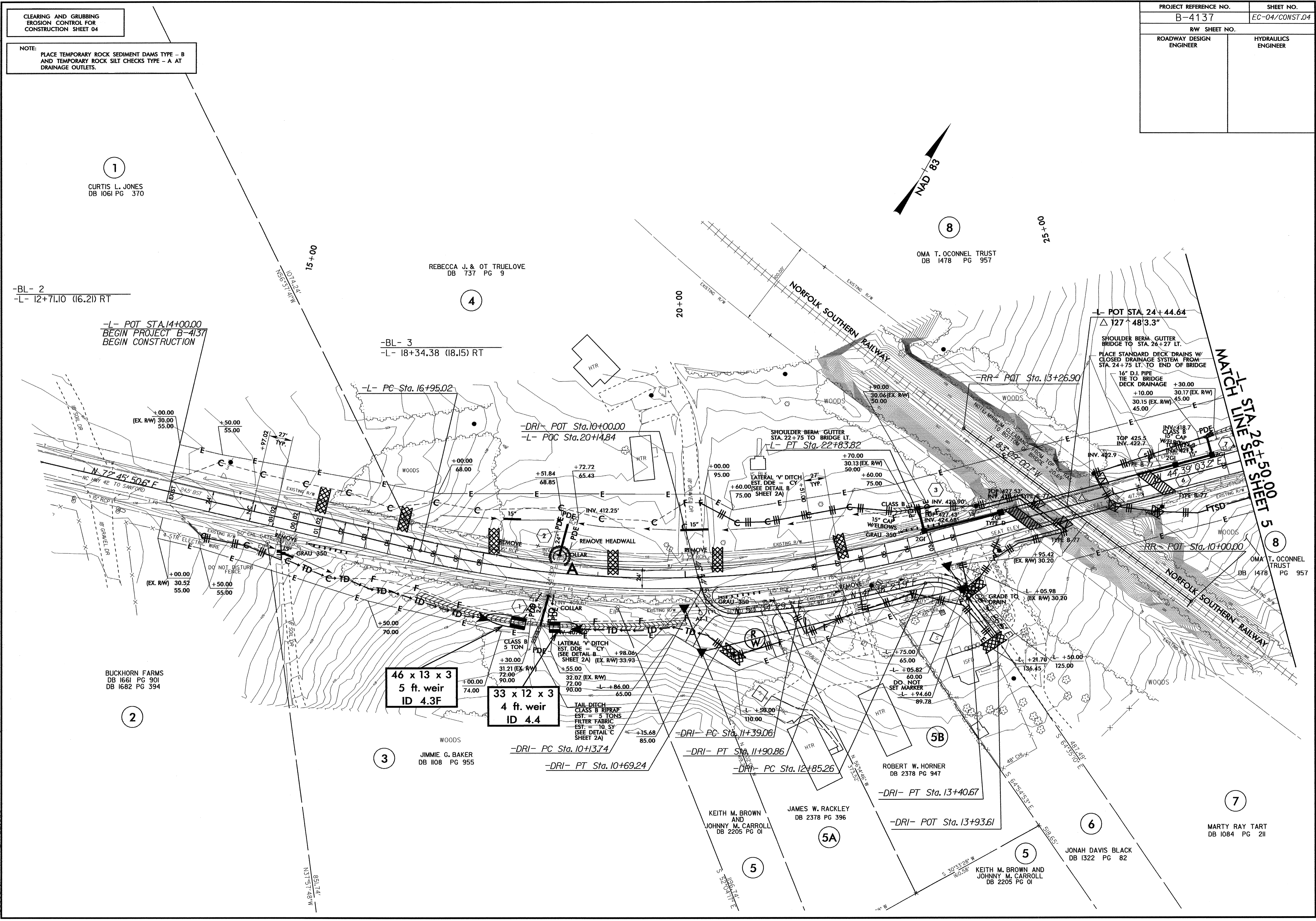


PROJECT REFERENCE NO. B-4137	SHEET NO. EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

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

REVISIONS
RW REV. - ADDED PROP RW MARKERS AT -L- STA. 19+98.06 RT, 20+15.68 RT, 22+95.42 RT AND 23+05.82 RT. REMOVED PROP. RW MARKERS THROUGH REMAINDER OF PROJECT. EXTENDED PROP. CONSTR. EASEMENT FROM -L- STA. 23+19.82 TO -L- STA. 23+05.98 (EXIST. RW). ELIMINATED PROP. CONSTR. EASEMENT FROM -L- STA. 23+19.82 RT TO -L- STA. 24+27.94 RT. UPDATED PROPERTY LINES AND PARCEL NUMBERS ON PARCEL 5, 5A, AND 5B. ADDED DRIVEWAY CONNECTIONS ON PARCELS 3, 5, AND 5A TO -DRI-. - SEC 10/2808



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lscocatta

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1
CURTIS L. JONES
DB 1061 PG 370

-BL- 2
-L- 12+71.10 (16.21) RT

-L- POT STA. 14+00.00
BEGIN PROJECT B-4137
BEGIN CONSTRUCTION

-BL- 3
-L- 18+34.38 (18.15) RT

-L- PC Sta. 16+95.02

-DRI- POT Sta. 10+00.00
-L- PC Sta. 20+14.84

8
OMA T. O'CONNEL TRUST
DB 1478 PG 957

-RR- POT Sta. 13+26.90

-L- POT STA. 24+44.64
 $\Delta 127^\circ 48' 3.3''$

SHOULDER BERM GUTTER
BRIDGE TO STA. 26+27 LT.

PLACE STANDARD DECK DRAINS W/
CLOSED DRAINAGE SYSTEM FROM
STA. 24+75 LT. TO END OF BRIDGE

MATCH LINE SEE SHEET 5

BUCKHORN FARMS
DB 1661 PG 901
DB 1682 PG 394

46 x 13 x 3
5 ft. weir
ID 4.3F

33 x 12 x 3
4 ft. weir
ID 4.4

3
JIMMIE G. BAKER
DB 1108 PG 955

-DRI- PC Sta. 10+13.74

-DRI- PT Sta. 10+69.24

-DRI- PT Sta. 11+90.86

-DRI- PC Sta. 12+85.26

-DRI- PT Sta. 13+40.67

-DRI- POT Sta. 13+93.61

5B
ROBERT W. HORNER
DB 2378 PG 947

5A
KEITH M. BROWN
AND
JOHNNY M. CARROLL
DB 2205 PG 01

JAMES W. RACKLEY
DB 2378 PG 396

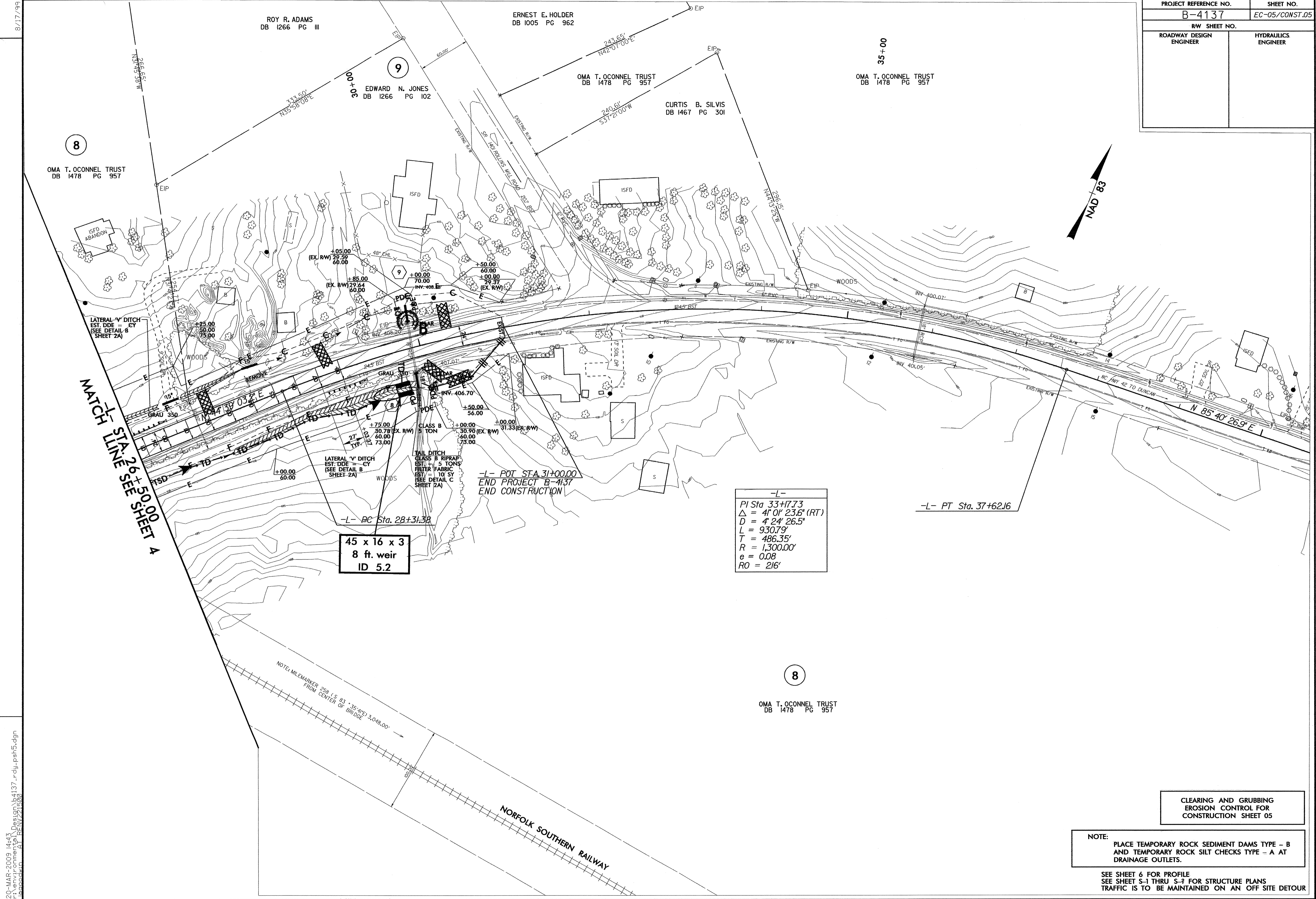
6
JONAH DAVIS BLACK
DB 1322 PG 82

5
KEITH M. BROWN
AND
JOHNNY M. CARROLL
DB 2205 PG 01

7
MARTY RAY TART
DB 1084 PG 211

PROJECT REFERENCE NO.	SHEET NO.
B-4137	EC-05/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS
 R/W REV. - REMOVED PROP R/W MARKERS ALONG EXISTING R/W. - SEC 102808



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CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 05

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

SEE SHEET 6 FOR PROFILE
 SEE SHEET S-1 THRU S-? FOR STRUCTURE PLANS
 TRAFFIC IS TO BE MAINTAINED ON AN OFF SITE DETOUR

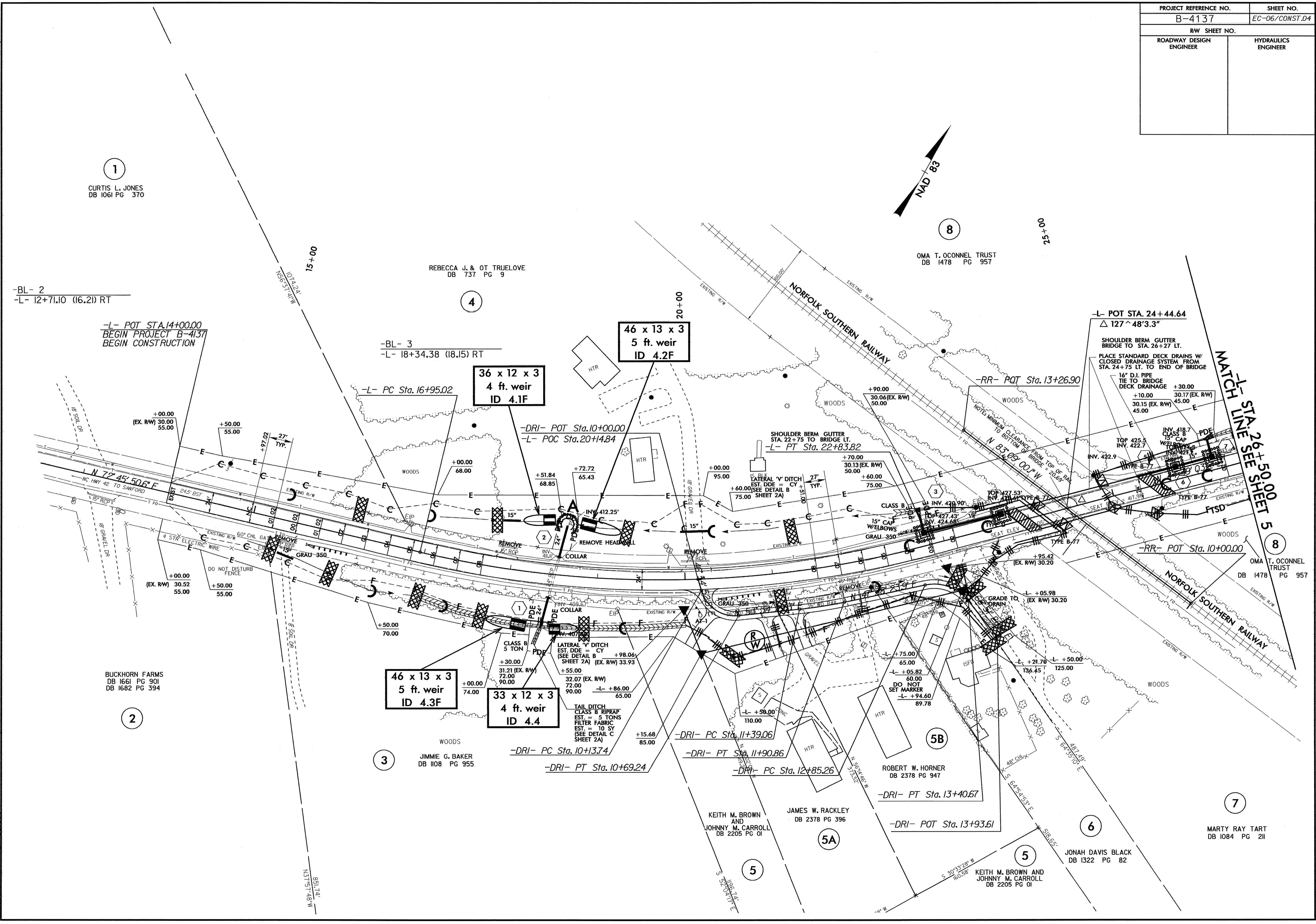
PROJECT REFERENCE NO.	SHEET NO.
B-4137	EC-06/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

RW REV. - ADDED PROP. RW MARKERS AT -L- STA. 19+98.06 RT, 20+15.68 RT, 22+95.42 RT AND 23+05.82 RT. REMOVED PROP. RW MARKERS THROUGH REMAINDER OF PROJECT. EXTENDED PROP. CONSTR. EASEMENT FROM -L- STA. 23+19.82 TO -L- STA. 23+05.98 (EXIST. RW). ELIMINATED PROP. CONSTR. EASEMENT FROM -L- STA. 23+19.82 RT TO -L- STA. 24+27.94 RT. UPDATED PROPERTY LINES AND PARCEL NUMBERS ON PARCEL 5A, AND 5B. ADDED DRIVEWAY CONNECTIONS ON PARCELS 3, 5, AND 5A TO -DRI-, - SEC 102808

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1
 CURTIS L. JONES
 DB 1061 PG 370

REBECCA J. & OT TRUETOVE
 DB 737 PG 9

8
 OMA T. OCONNEL TRUST
 DB 1478 PG 957

-BL- 2
 -L- 12+71.10 (16.21) RT

-BL- 3
 -L- 18+34.38 (18.15) RT

-L- POT STA. 14+00.00
 BEGIN PROJECT B-4137
 BEGIN CONSTRUCTION

-L- POT STA. 24+44.64
 Δ 127' 48" 3.3"

MATCH LINE SEE SHEET 5

BUCKHORN FARMS
 DB 1661 PG 901
 DB 1682 PG 394

JIMMIE G. BAKER
 DB 1108 PG 955

ROBERT W. HORNER
 DB 2378 PG 947

KEITH M. BROWN
 AND
 JOHNNY M. CARROLL
 DB 2205 PG 01

JAMES W. RACKLEY
 DB 2378 PG 396

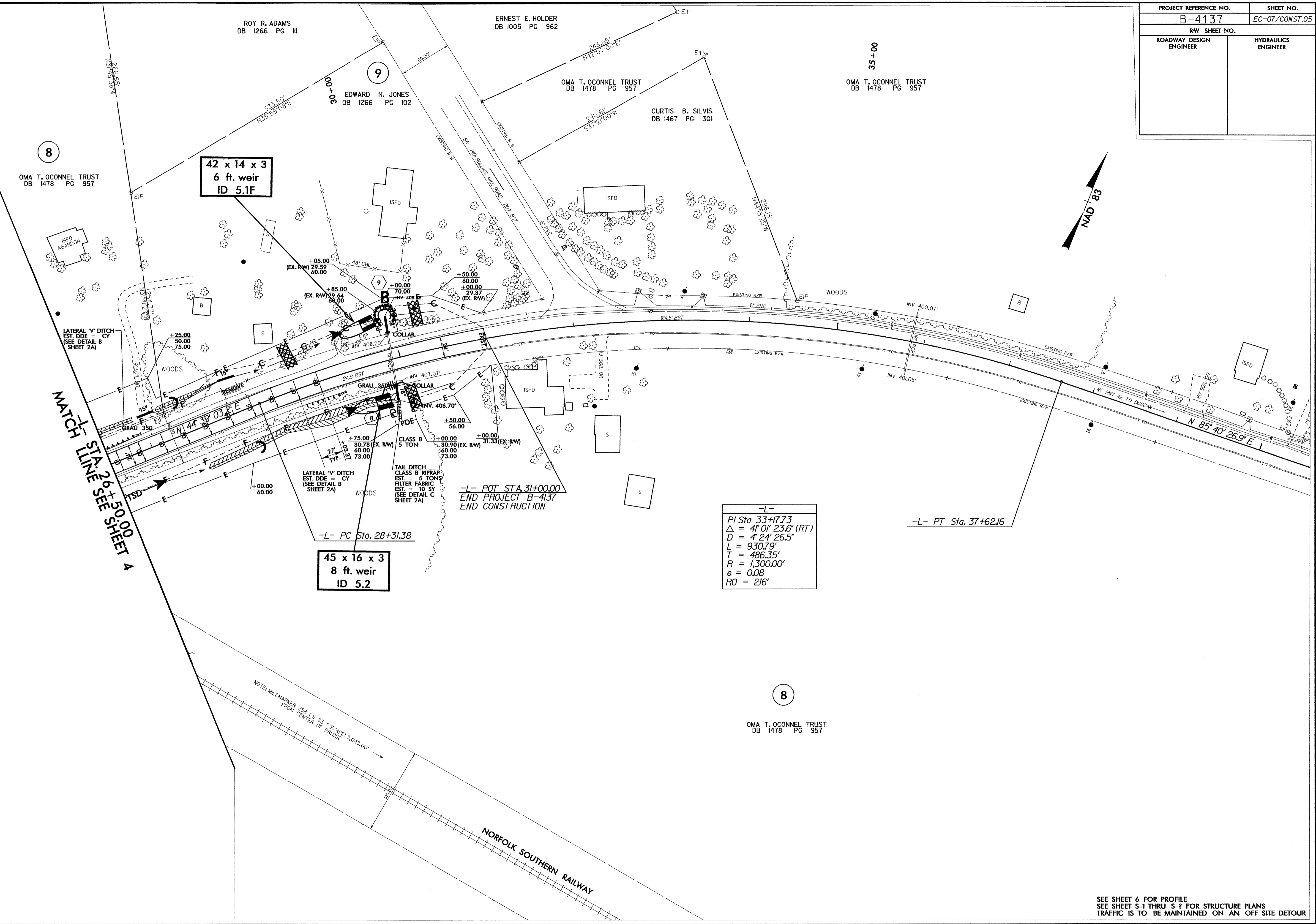
JONAH DAVIS BLACK
 DB 1322 PG 82

KEITH M. BROWN AND
 JOHNNY M. CARROLL
 DB 2205 PG 01

MARTY RAY TART
 DB 1084 PG 211

PROJECT REFERENCE NO.	SHEET NO.
B-4137	EC-07/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99
 REVISIONS
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42 x 14 x 3
6 ft. weir
ID 5.1F

45 x 16 x 3
8 ft. weir
ID 5.2

-L-
 PI Sta 33+77.3
 $\Delta = 41^{\circ} 0' 23.6" (RT)$
 $D = 424' 26.5"$
 $L = 930.79'$
 $T = 486.35'$
 $R = 1,300.00'$
 $e = 0.08$
 $RO = 216'$

-L- POT STA. 31+00.00
 END PROJECT B-4137
 END CONSTRUCTION

-L- PT Sta. 37+62.16

MATCH LINE SEE SHEET 4
 STATION 26+50.00

SEE SHEET 6 FOR PROFILE
 SEE SHEET S-1 THRU S-? FOR STRUCTURE PLANS
 TRAFFIC IS TO BE MAINTAINED ON AN OFF SITE DETOUR