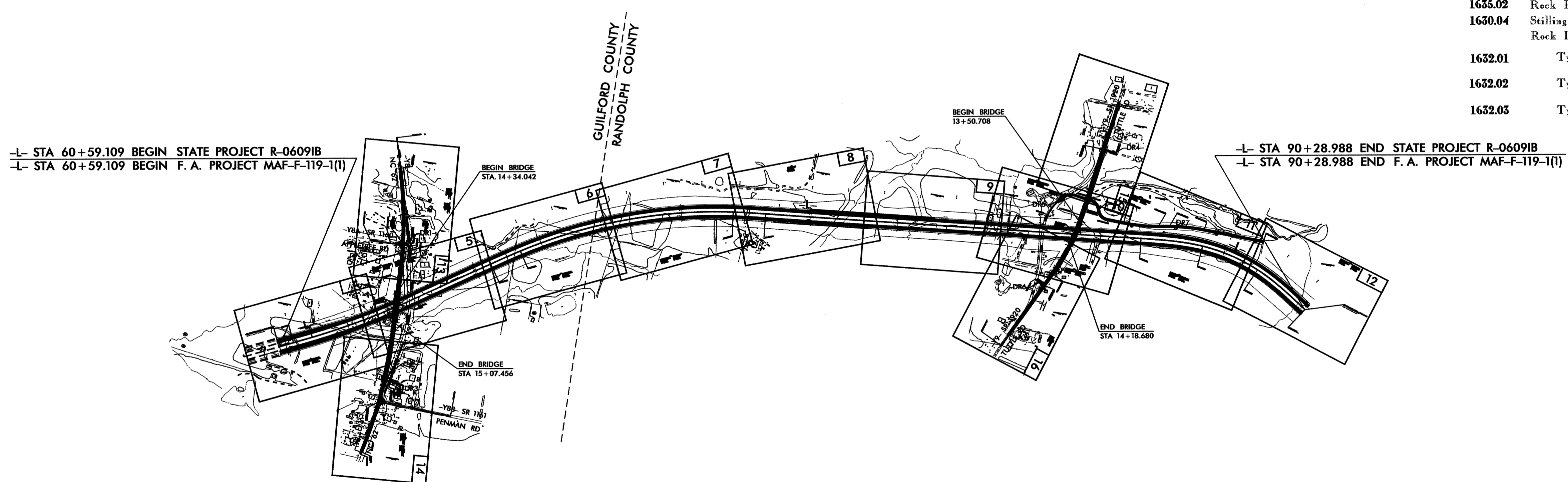
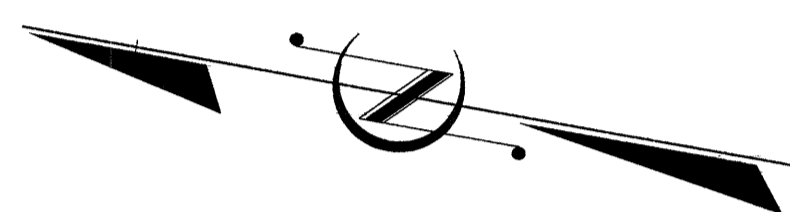


TIP PROJECT: R-06091B

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

**LOCATION: US 311 HIGH POINT EAST BELT FROM I-85 TO
 SOUTH OF SR 1920 (TUTTLE RD) NORTH OF ARCHDALE**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING, GUARDRAIL,
 CABLE GUIDERAIL AND STRUCTURES**



METRIC
 ALL DIMENSIONS IN THESE
 PLANS ARE IN METERS
 UNLESS OTHERWISE SHOWN

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-06091B	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.....	
	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.....	
1633.02	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.....	

**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
2002 STANDARD SPECIFICATIONS

Roadway Standard Drawings

The following roadway metric standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 20, 2002 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	1632.01 Rock Inlet Sediment Trap Type A
1622.01 Temporary Berms and Slope Drains	1632.02 Rock Inlet Sediment Trap Type B
1630.02 Silt Basin Type B	1632.03 Rock Inlet Sediment Trap Type C
1630.03 Temporary Silt Ditch	1633.01 Temporary Rock Silt Check Type A
1630.04 Stilling Basin	1633.02 Temporary Rock Silt Check Type B
1630.05 Temporary Diversion	1634.02 Temporary Rock Sediment Dam Type B
	1635.01 Rock Pipe Inlet Sediment Trap Type A

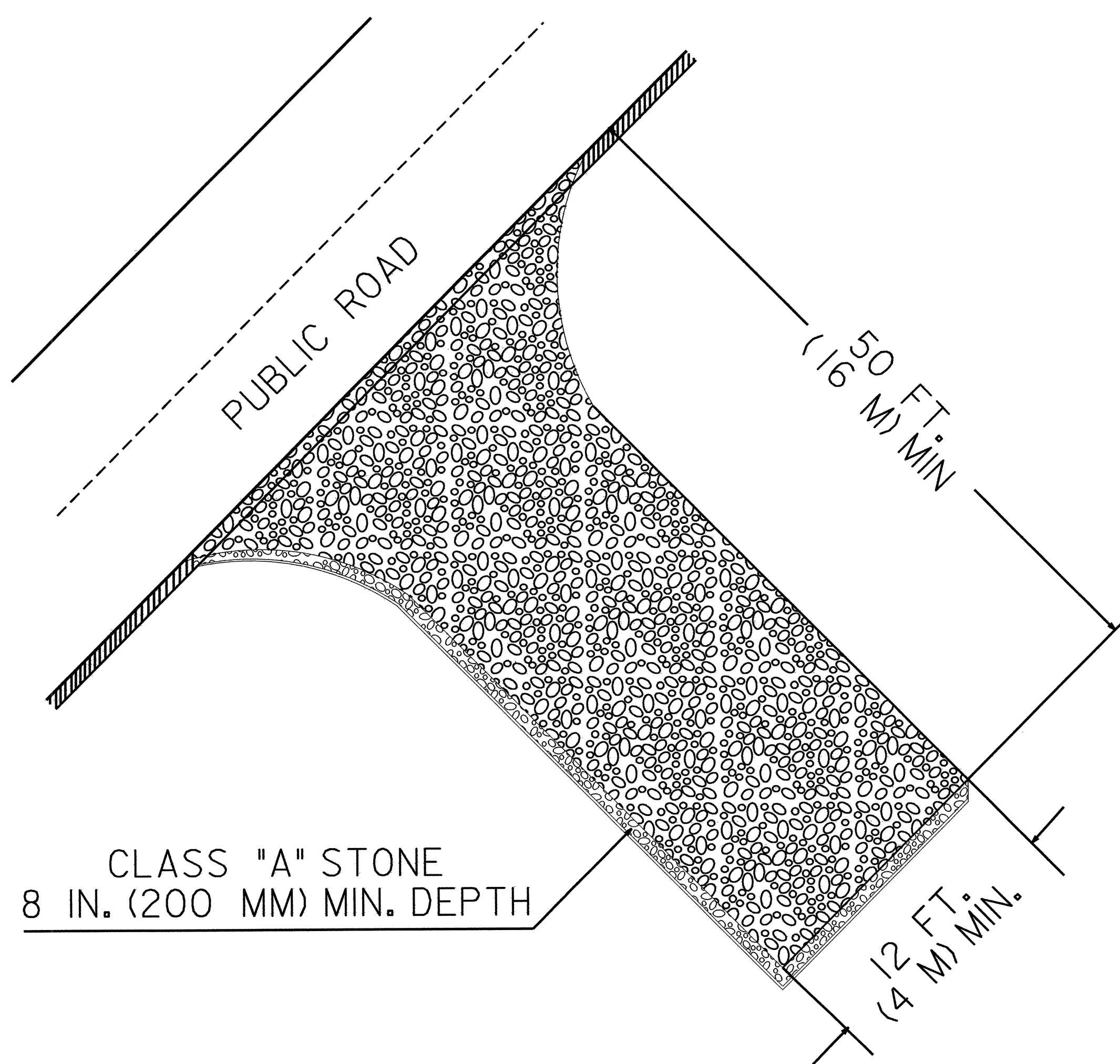
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 mstshj AT REN214515

PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

NOTES:

1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER

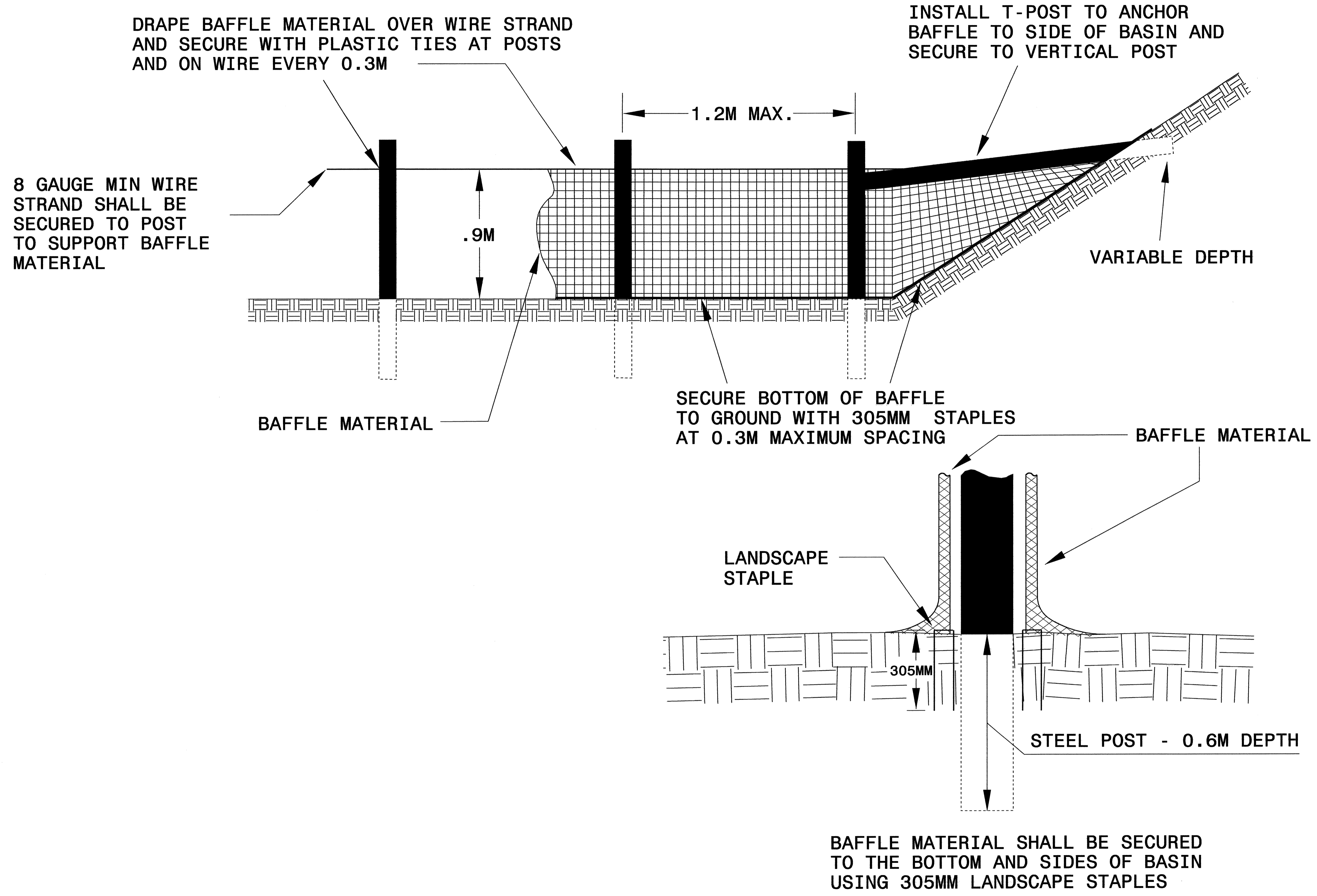


NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE

COIR FIBER BAFFLE DETAIL



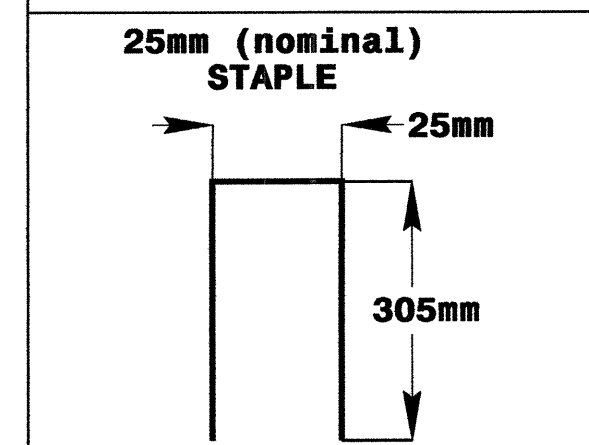
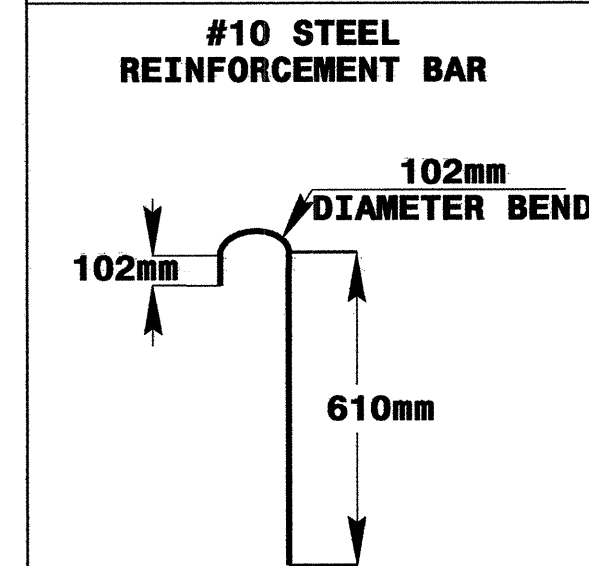
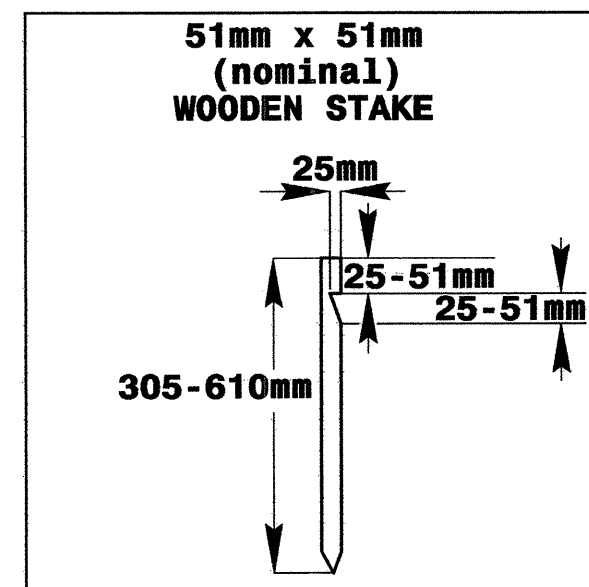
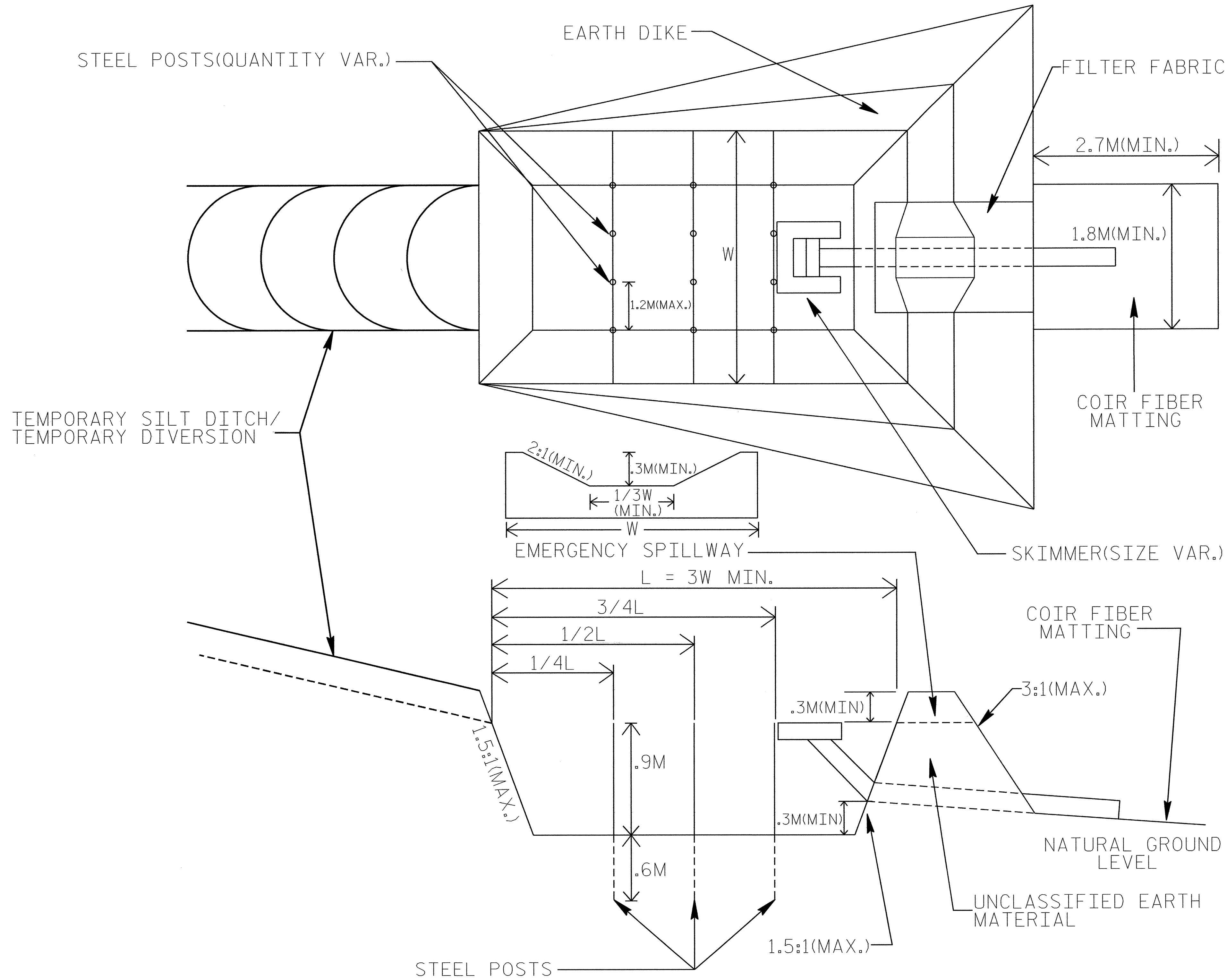
PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SKIMMER BASIN WITH BAFFLES DETAIL



PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-2B
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

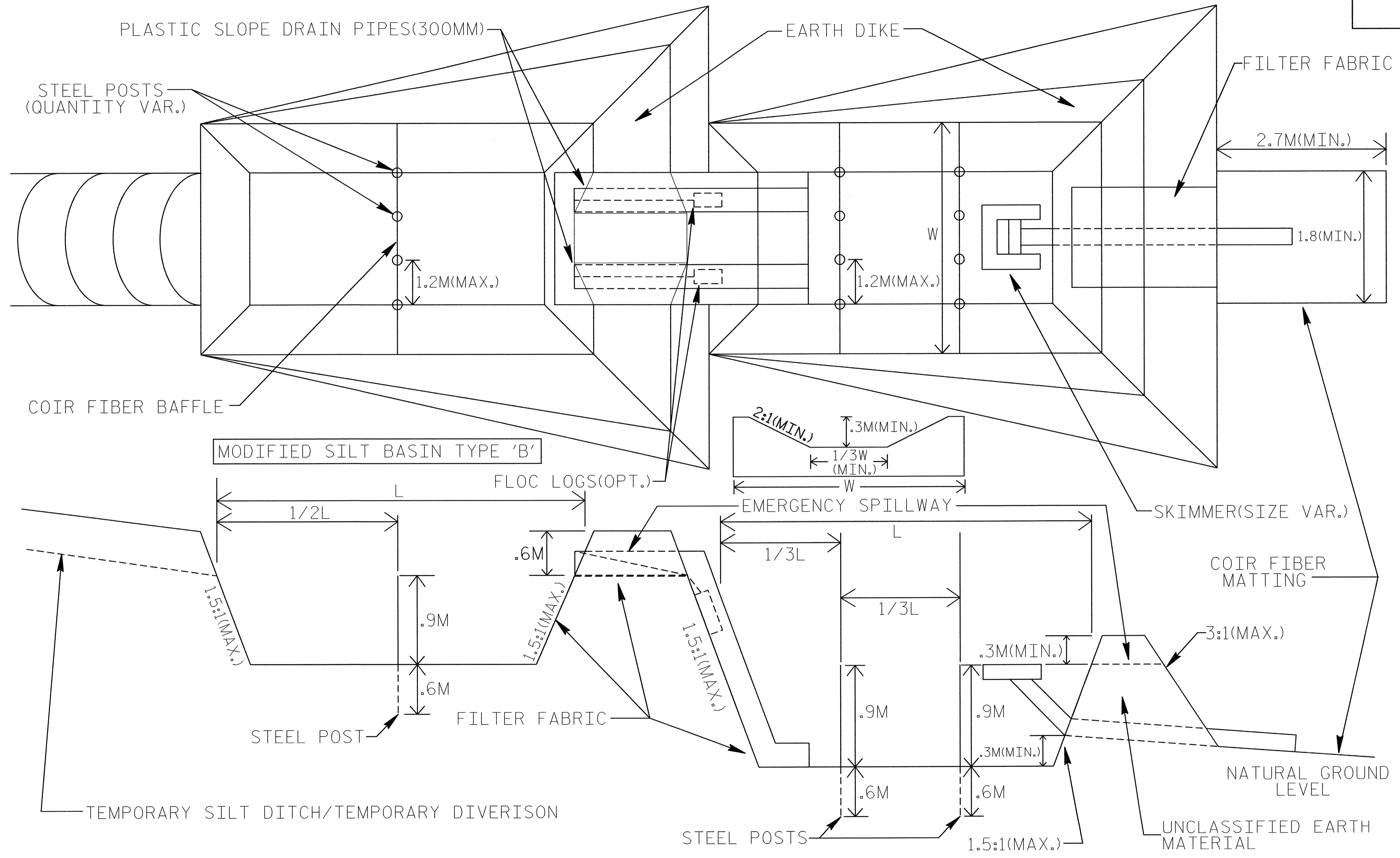


COIR FIBER MAT ANCHOR OPTIONS



PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TIERED SKIMMER BASIN DETAIL



NOTE
ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.



PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-2D
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SPECIAL SEDIMENT CONTROL FENCE DETAIL

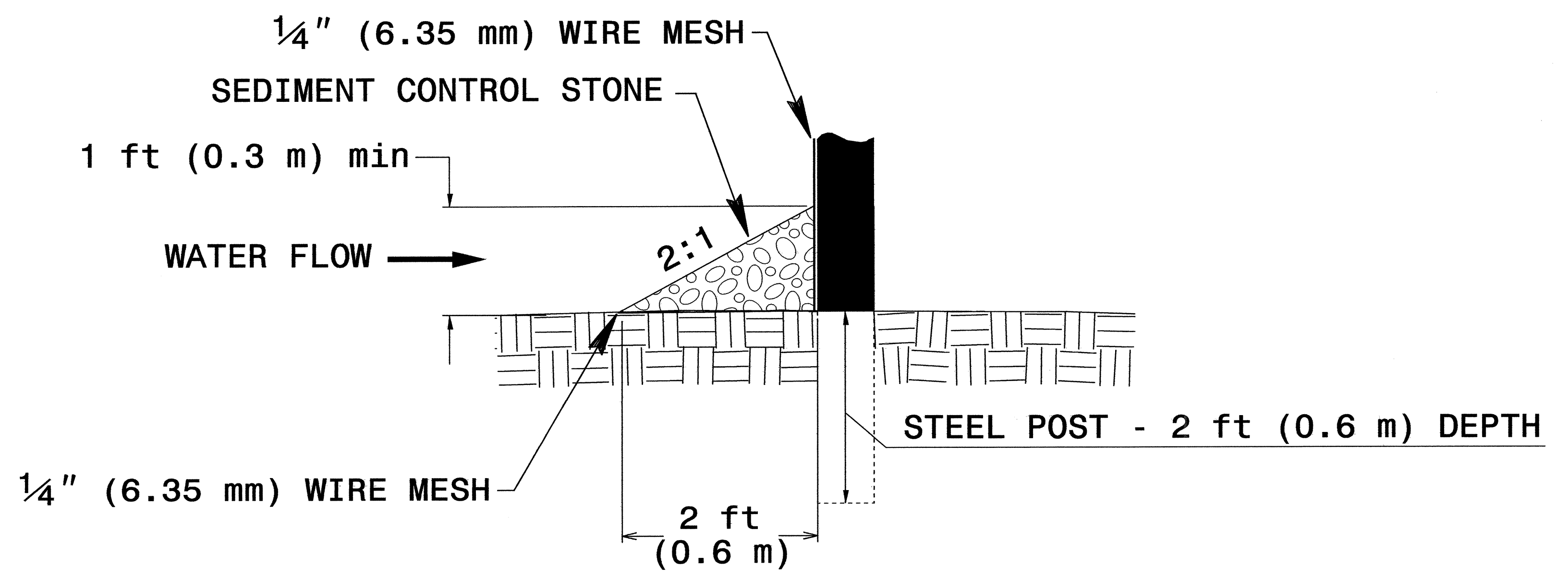
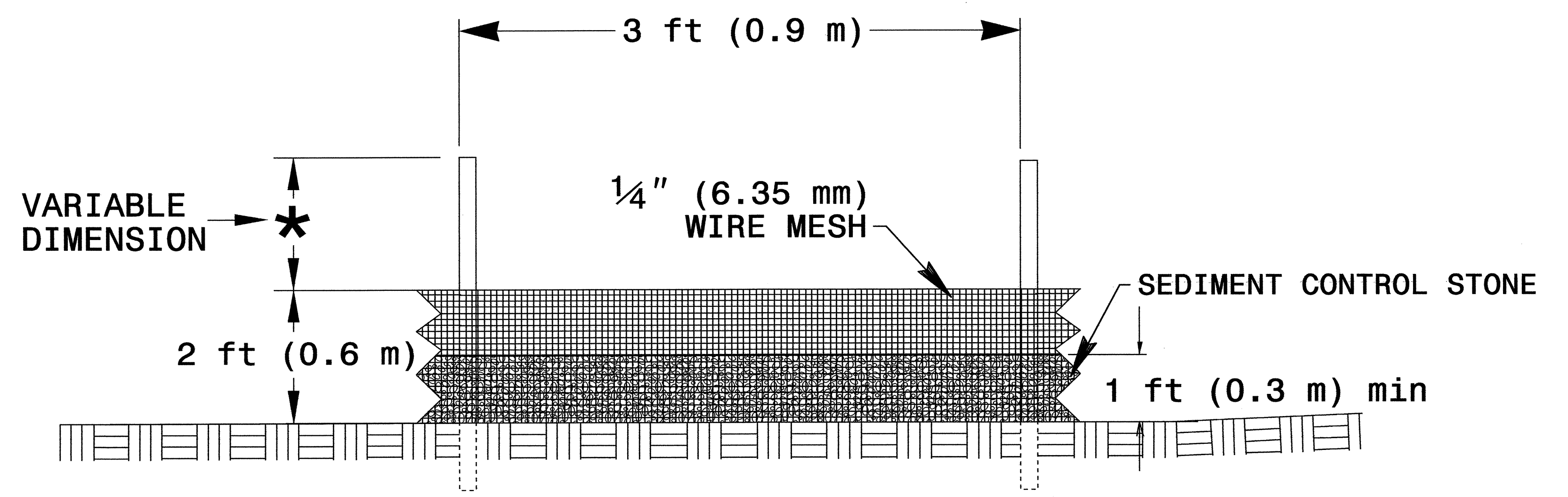
GENERAL NOTES:

USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL.

USE HARDWARE CLOTH 24 GAUGE WIRE MESH WITH 1/4" (6.35 MM) MESH OPENINGS.

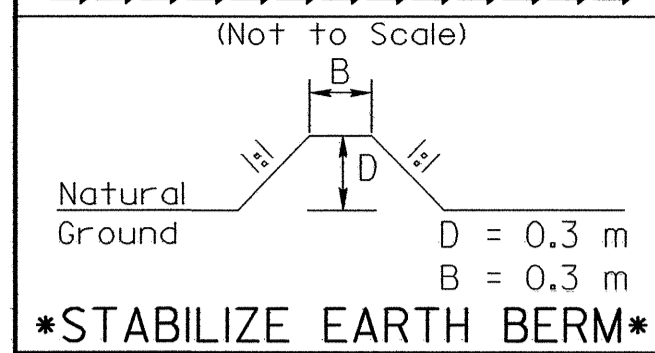
INSTALL 5 FT. (1.5 M) SELF FASTENER ANGLE STEEL POST 2 FT. (0.6 M) DEEP MINIMUM.

SPACE POST A MAXIMUM OF 3 FT (0.9 M).



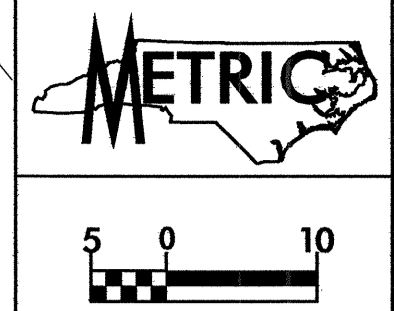
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

TEMPORARY EARTH BERM

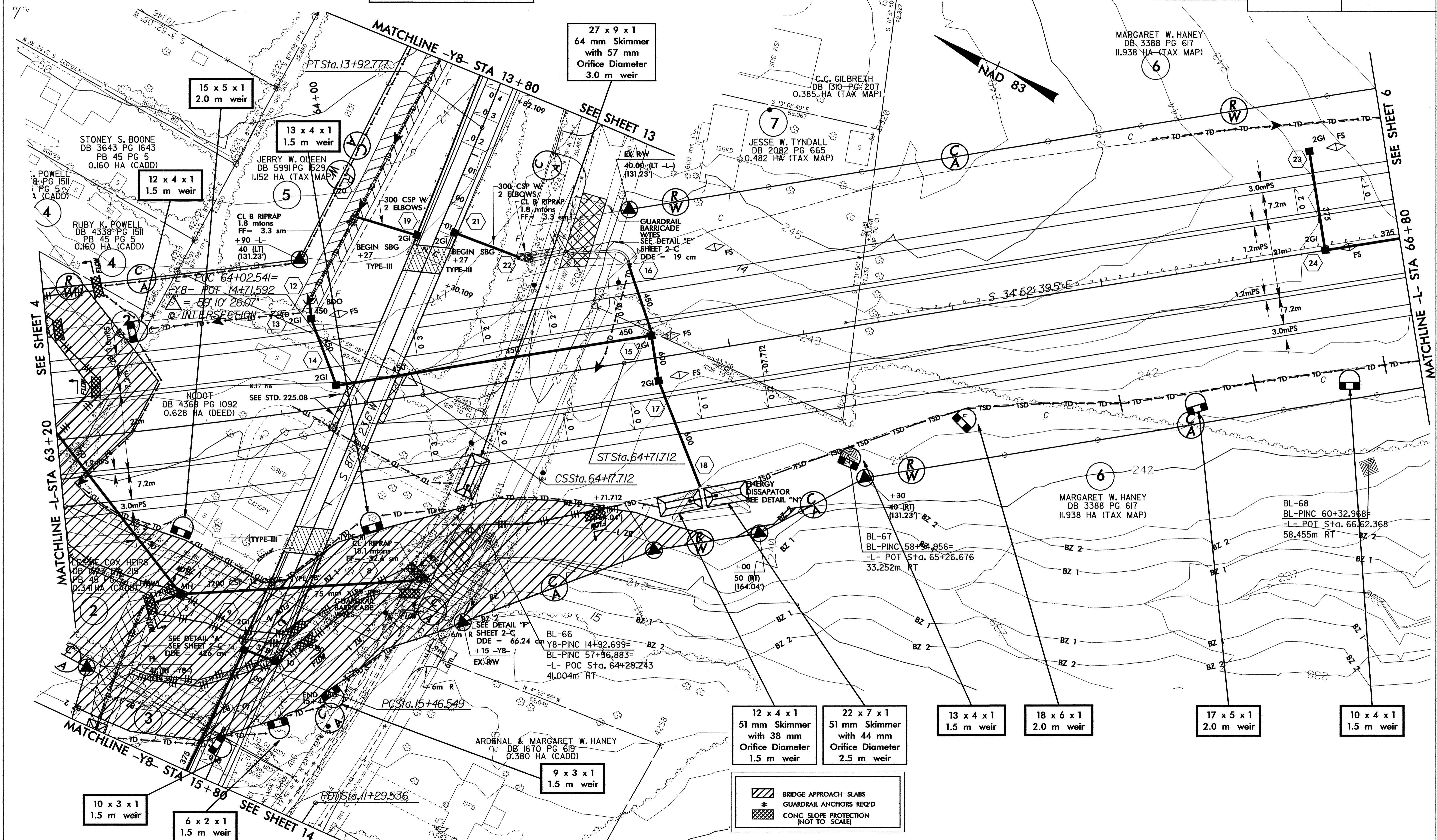


NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B
AND TEMPORARY ROCK SILT CHECKS TYPE-A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5



PROJECT REFERENCE NO. R-0609/B	SHEET NO. EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CONST. REV.	
R/W REV.	



BRIDGE APPROACH SLABS
GUARDRAIL ANCHORS REQ'D
CONC SLOPE PROTECTION
(NOT TO SCALE)

97°V

NAD 83

MARGARET W. HANEY
DB 3388 PG 617
11.938 HA (TAX MAP)

JESSE W. TYNDALL
DB 2082 PG 665
0.482 HA (TAX MAP)

STONEY S. BOONE
DB 3643 PG 1643
PB 45 PG 5
0.160 HA (CADD)

JERRY W. QUEEN
DB 5991 PG 629
1.152 HA (TAX MAP)

RUBY K. POWELL
DB 4338 PG 1511
PB 45 PG 5
0.160 HA (CADD)

CL B RIPRAP
1.8 mt/tons
FF = 3.3 sm
+90 L
40 (LT)
(131.23')

27 x 9 x 1
64 mm Skimmer
with 57 mm
Orifice Diameter
3.0 m weir

15 x 5 x 1
2.0 m weir

12 x 4 x 1
1.5 m weir

13 x 4 x 1
1.5 m weir

ST Sta. 64+71.712

CSS Sta. 64+71.712

PC Sta. 15+46.549

ARDENAL & MARGARET W. HANEY
DB 1670 PG 619
0.380 HA (CADD)

BL-67
BL-PINC 58+26.956=
-L- POT Sta. 65+26.676
33.252m RT

MARGARET W. HANEY
DB 3388 PG 617
11.938 HA (TAX MAP)

BL-68
BL-PINC 60+32.968=
-L- POT Sta. 66+62.368
58.455m RT

10 x 3 x 1
1.5 m weir

6 x 2 x 1
1.5 m weir

9 x 3 x 1
1.5 m weir

12 x 4 x 1
51 mm Skimmer
with 38 mm
Orifice Diameter
1.5 m weir

22 x 7 x 1
51 mm Skimmer
with 44 mm
Orifice Diameter
2.5 m weir

13 x 4 x 1
1.5 m weir

18 x 6 x 1
2.0 m weir

17 x 5 x 1
2.0 m weir

10 x 4 x 1
1.5 m weir

SEE SHEET 4

MATCHLINE -L- STA 63+20

MATCHLINE -Y8- STA 15+80

MATCHLINE -Y8- STA 13+80

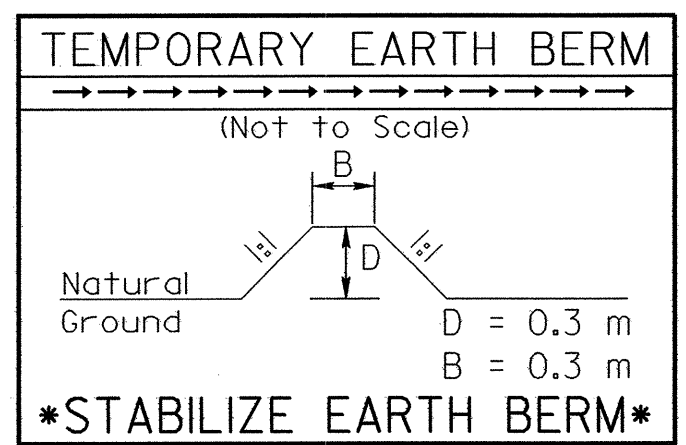
SEE SHEET 13

SEE SHEET 6

MATCHLINE -L- STA 66+80

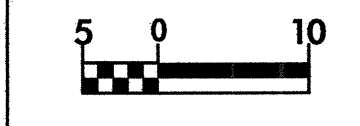
SEE SHEET 14

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

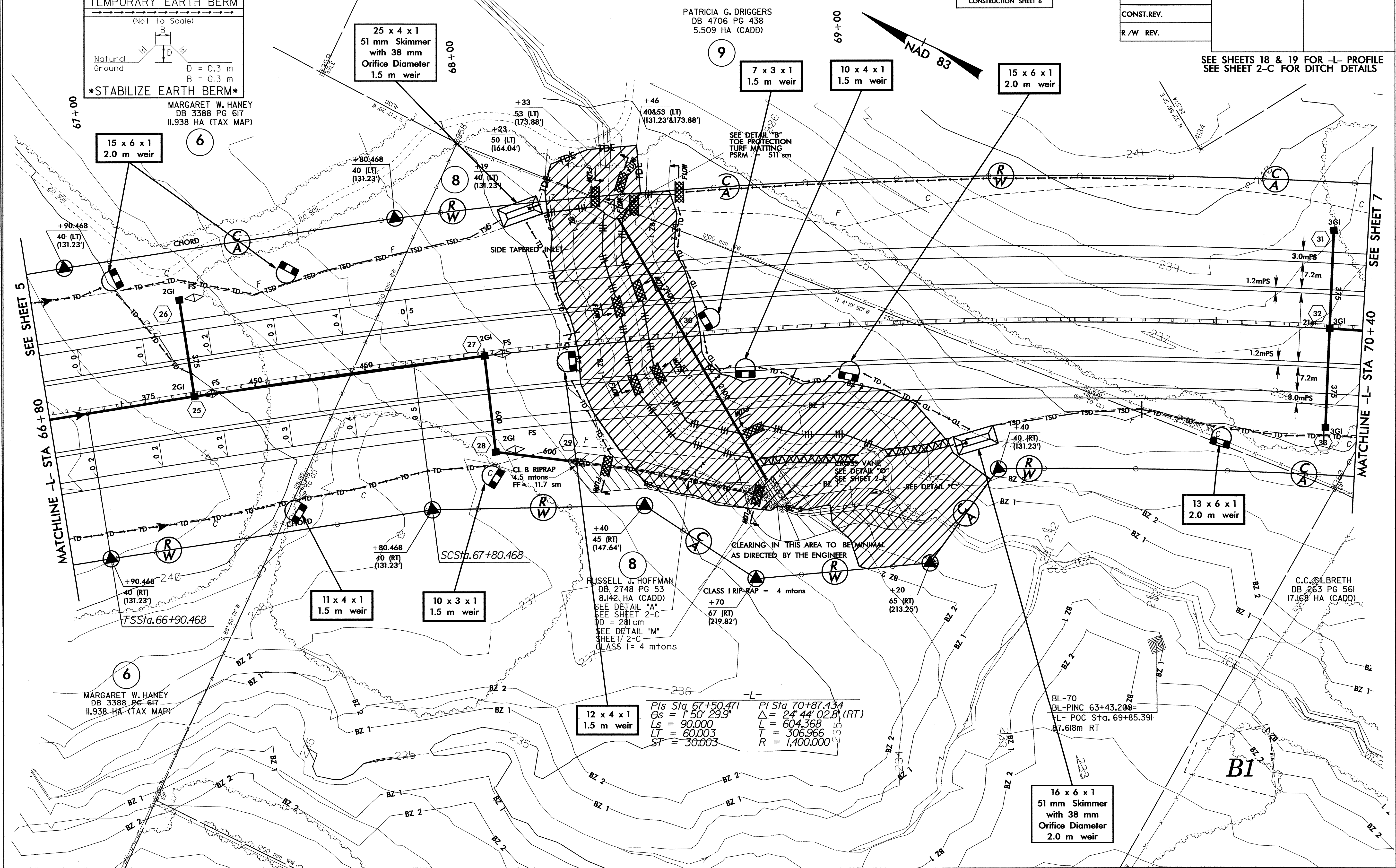


NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

PROJECT REFERENCE NO. R-0609/B	SHEET NO. EC-6/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CONST. REV.	
R/W REV.	



SEE SHEETS 18 & 19 FOR -L- PROFILE
SEE SHEET 2-C FOR DITCH DETAILS



PATRICIA G. DRIGGERS
DB 4706 PG 438
5.509 HA (CADD)

MARGARET W. HANEY
DB 3388 PG 617
11.938 HA (TAX MAP)

RUSSELL J. HOFFMAN
DB 2748 PG 53
8.142 HA (CADD)
SEE DETAIL "A"
SEE SHEET 2-C
D = 281 cm
SEE DETAIL "M"
SEE SHEET 2-C
CLASS I = 4 mtons

BL-70
BL-PINC 63+43.208=
L- POC Sta. 69+85.391
87.618m RT

$PI\ Sta\ 67+50.471$
 $\theta_s = 1^\circ 50' 29.9"$
 $L_s = 90.000$
 $LT = 60.003$
 $ST = 30.003$

$PI\ Sta\ 70+87.434$
 $\Delta = 24^\circ 44' 02.8" (RT)$
 $L = 604.368$
 $T = 306.966$
 $R = 1,400.000$

SEE SHEET 5

MATCHLINE -L- STA 66+80

SEE SHEET 7

MATCHLINE -L- STA 70+40

NAD 83

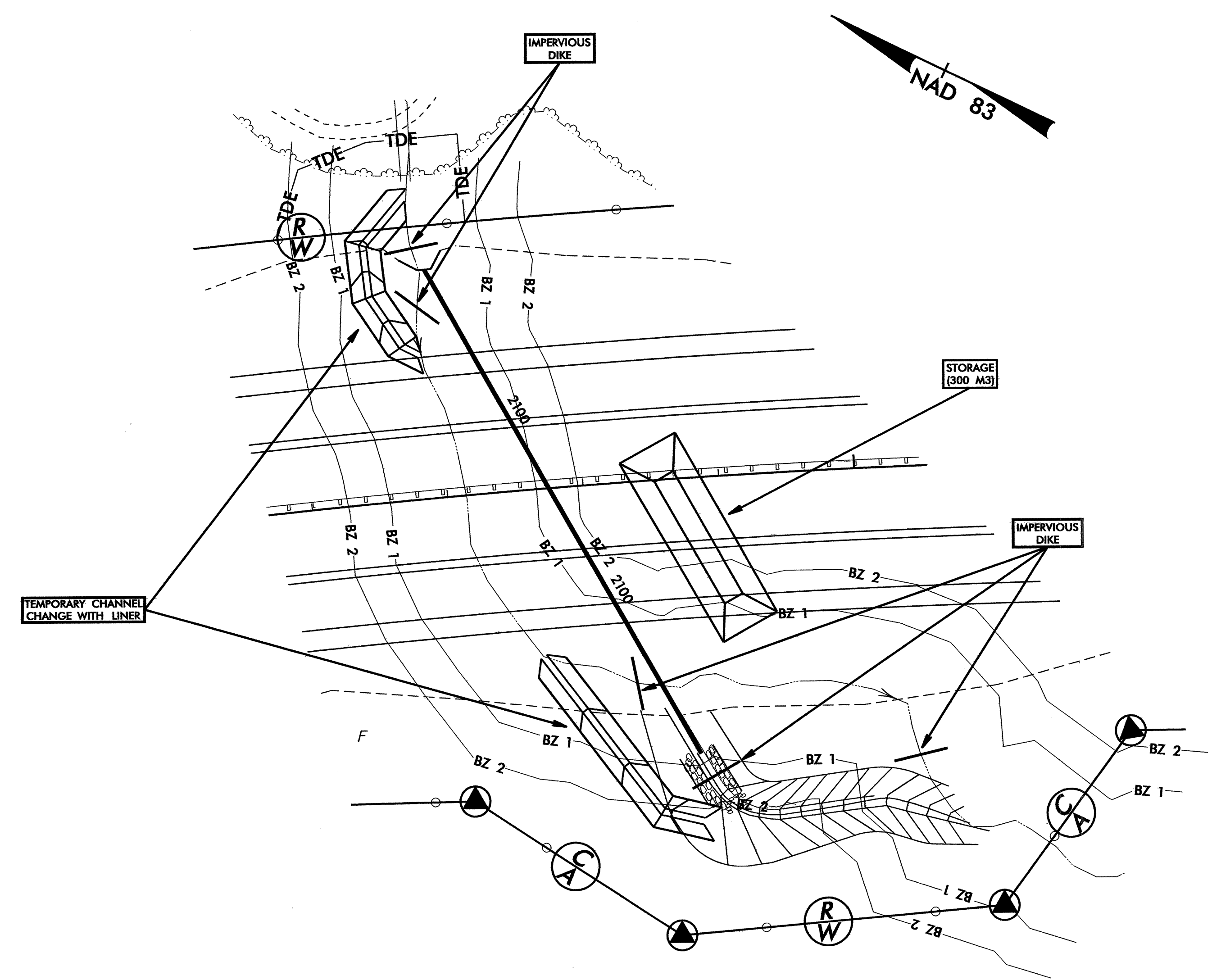
B1



PROJECT REFERENCE NO.	SHEET NO.
R-0609/B	EC-7/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 68+55 -L-

1. CONSTRUCT STILLING BASIN (300 M3).
2. CONSTRUCT AS MUCH OF OUTLET CHANNEL IMPROVEMENTS AS POSSIBLE.
3. CONSTRUCT IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGES WITH LINER (1M BASE, 1M DEEP, 2:1 SIDE SLOPES) DIVERTING FLOW.
4. CONSTRUCT 2100 RCP WITH SIDE TAPERED INLET.
5. COMPLETE NECESSARY INLET AND OUTLET CHANNEL IMPROVEMENTS.
6. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGES, AND DIVERT FLOW THROUGH PIPE.
7. COMPLETE ROADWAY.



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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

METRIC

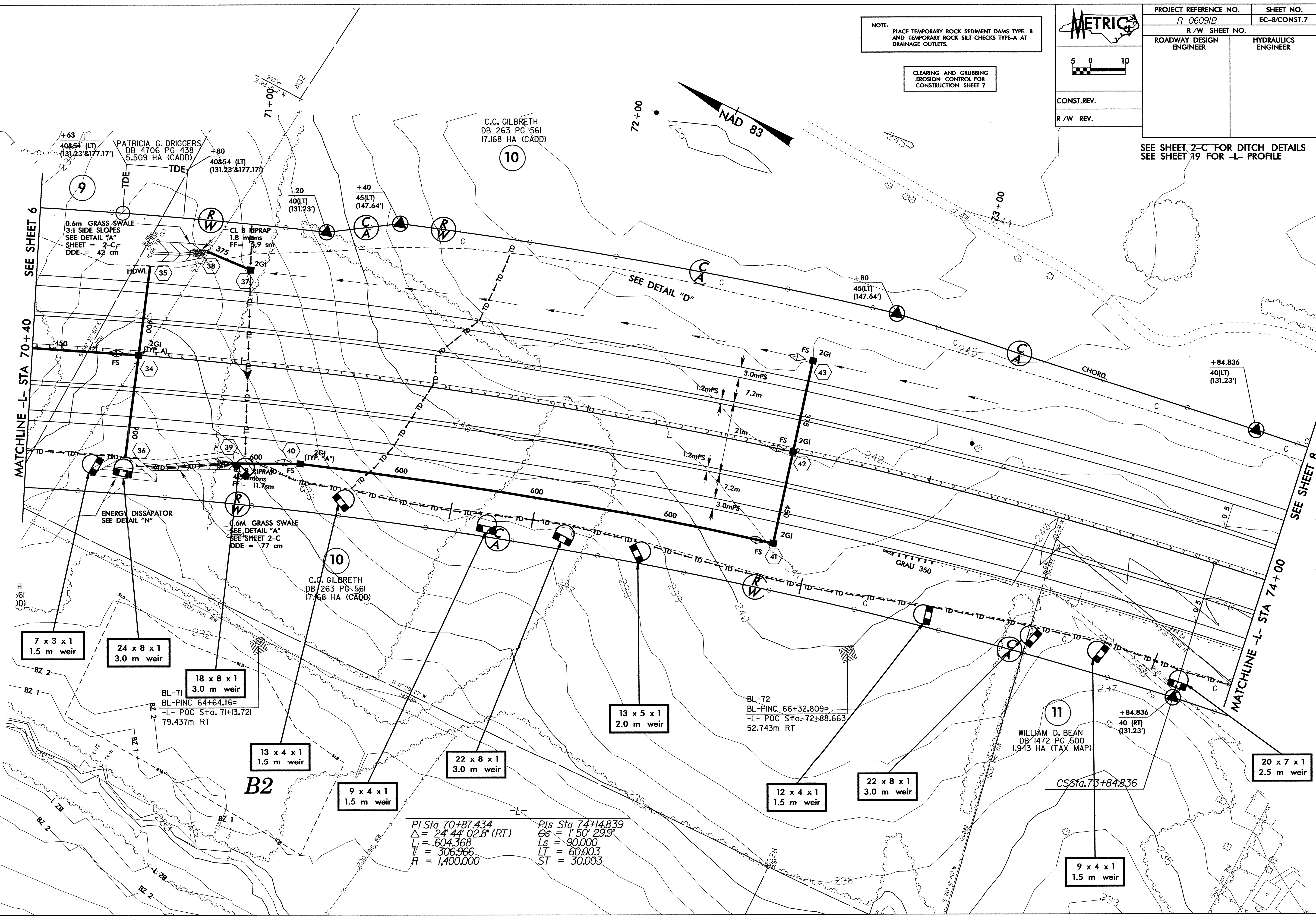
5 0 10

CONST.REV.

R/W REV.

PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-8/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET 2-C FOR DITCH DETAILS
SEE SHEET 19 FOR -L- PROFILE



$PI\ Sta\ 70+87.434$
 $\Delta = 24^{\circ}44'02.8''\ (RT)$
 $L = 604.368$
 $T = 306.966$
 $R = 1,400.000$

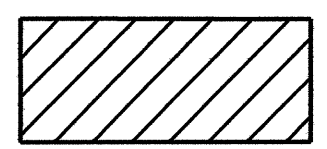
$PIs\ Sta\ 74+48.39$
 $\Delta_s = 1^{\circ}50'29.9''$
 $L_s = 90.000$
 $LT = 60.003$
 $ST = 30.003$

B2

11

10

9

 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

METRIC

5 0 10

CONST. REV.

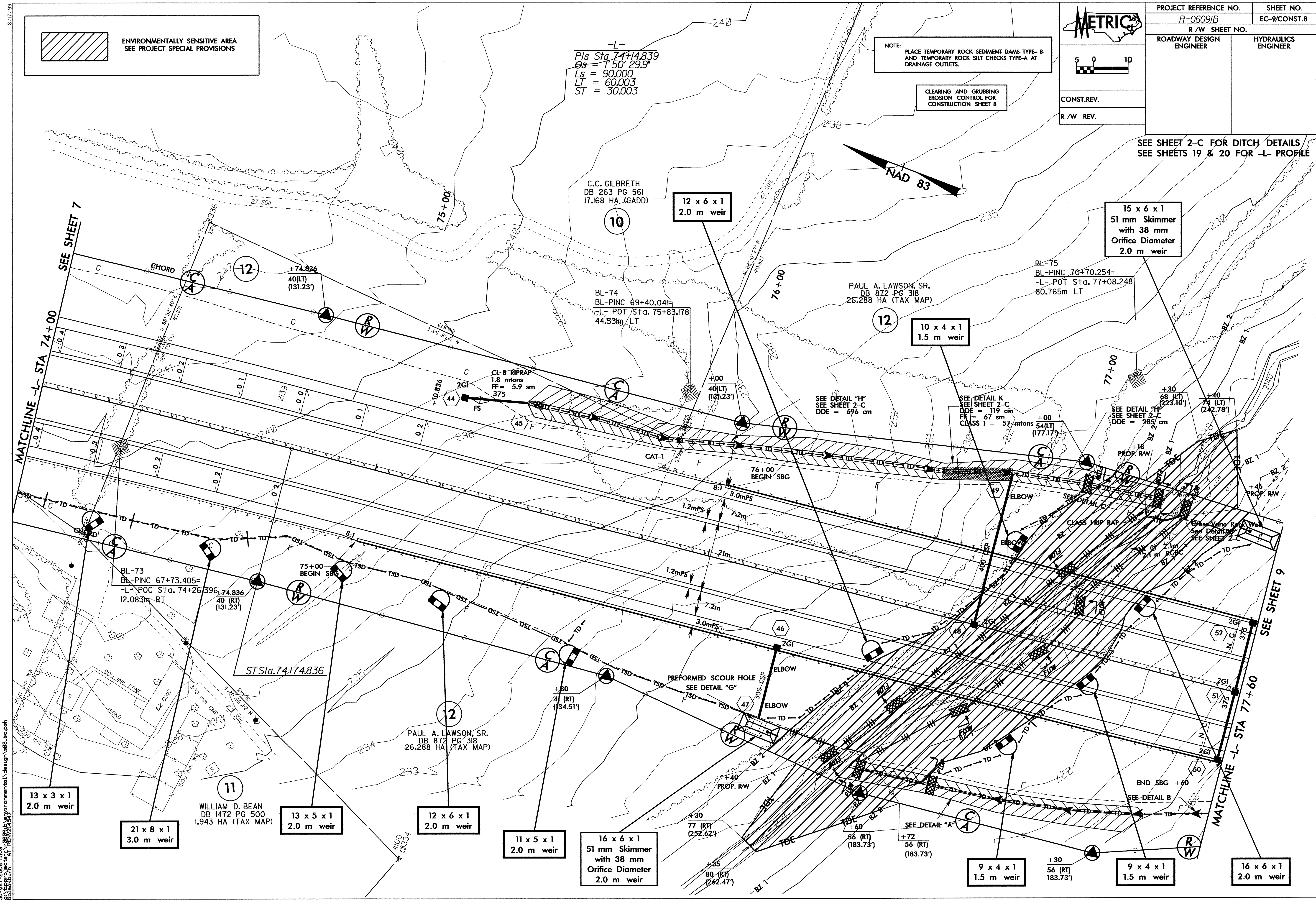
R/W REV.

PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-9/CONST.8
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8

SEE SHEET 2-C FOR DITCH DETAILS/
SEE SHEETS 19 & 20 FOR -L- PROFILE



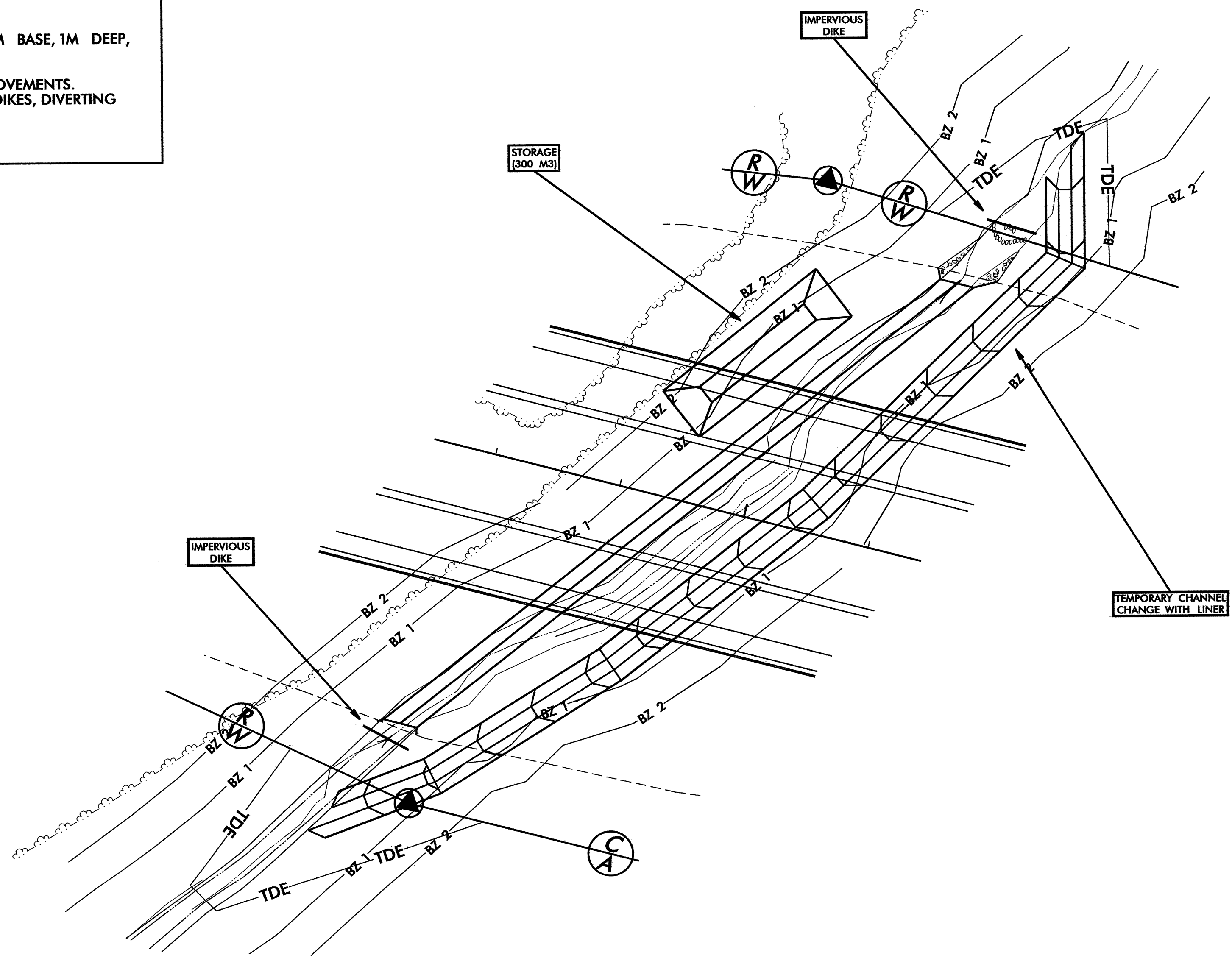
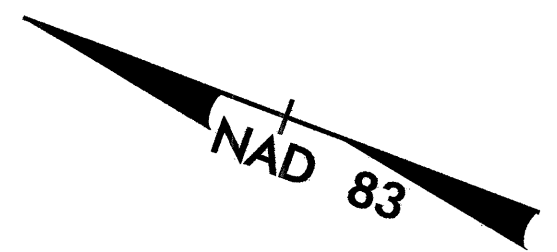
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 8/17/09



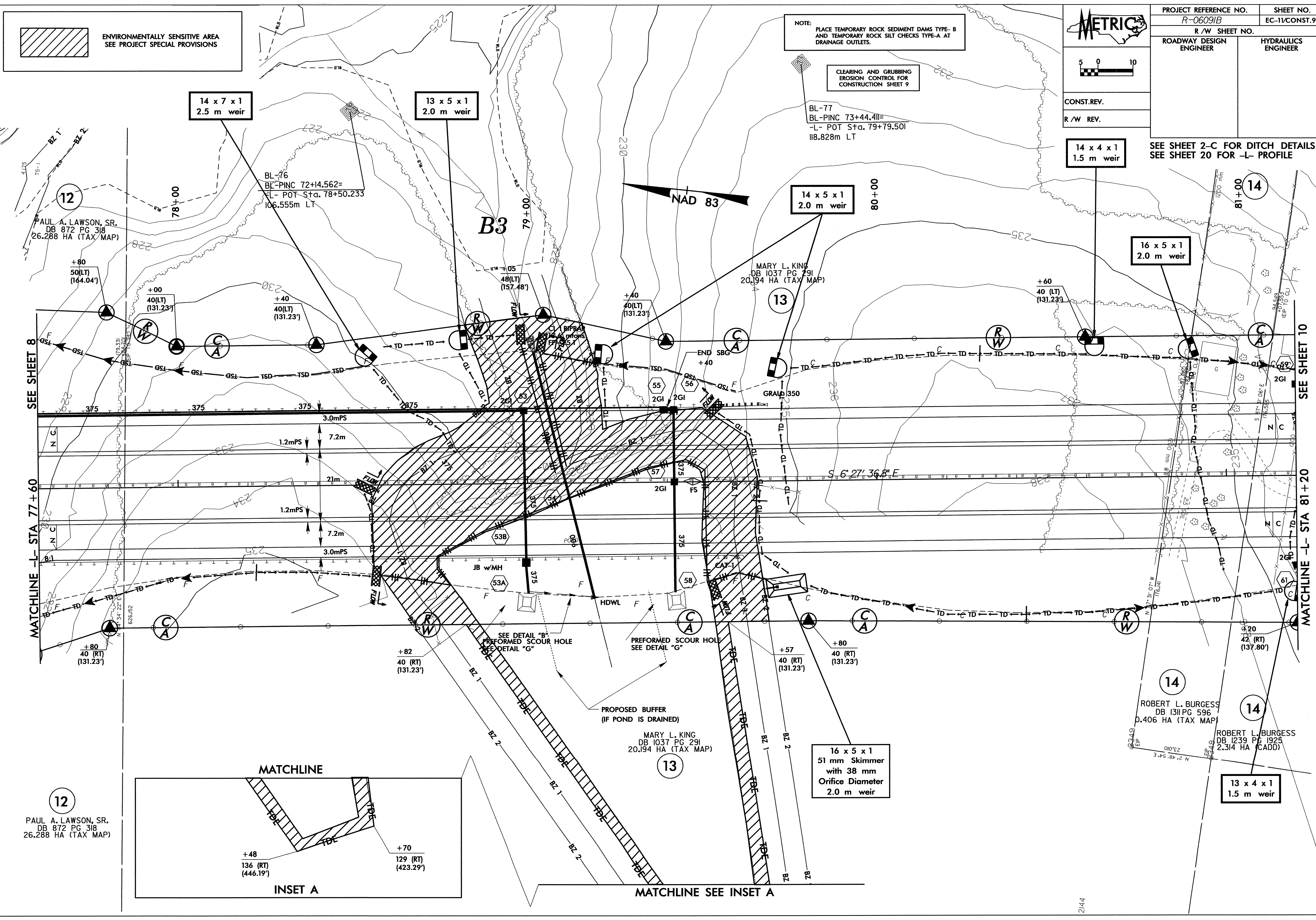
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R-0609/B	EC-10/CONST.B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 76+90 -L-

1. CONSTRUCT STILLING BASIN (300 M3).
2. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (2M BASE, 1M DEEP, 2:1 SIDE SLOPES) AND IMPERVIOUS DIKES, DIVERTING FLOW.
3. CONSTRUCT CULVERT.
4. CONSTRUCT NECESSARY INLET AND OUTLET CHANNEL IMPROVEMENTS.
5. REMOVE TEMPORARY CHANNEL CHANGE AND IMPERVIOUS DIKES, DIVERTING FLOW THROUGH CULVERT.
6. COMPLETE ROADWAY.



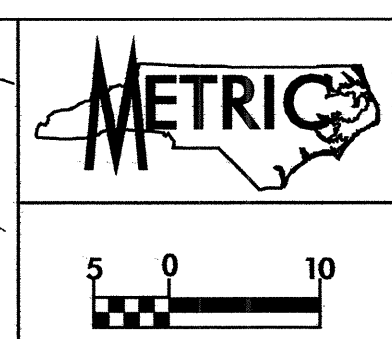
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ENVIRONMENTALLY SENSITIVE AREA
 SEE PROJECT SPECIAL PROVISIONS

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

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 9



CONST.REV.
 R/W REV.

PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-11/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

14 x 4 x 1
 1.5 m weir
 SEE SHEET 2-C FOR DITCH DETAILS
 SEE SHEET 20 FOR -L- PROFILE

12
 PAUL A. LAWSON, SR.
 DB 872 PG 318
 26.288 HA (TAX MAP)

BL-76
 BL-PINC 72+44.562=
 -L- POT Sta. 78+50.233
 106.555m LT

13 x 5 x 1
 2.0 m weir

NAD 83

14 x 5 x 1
 2.0 m weir

BL-77
 BL-PINC 73+44.411=
 -L- POT Sta. 79+79.501
 118.828m LT

14 x 4 x 1
 1.5 m weir

16 x 5 x 1
 2.0 m weir

14
 81+00

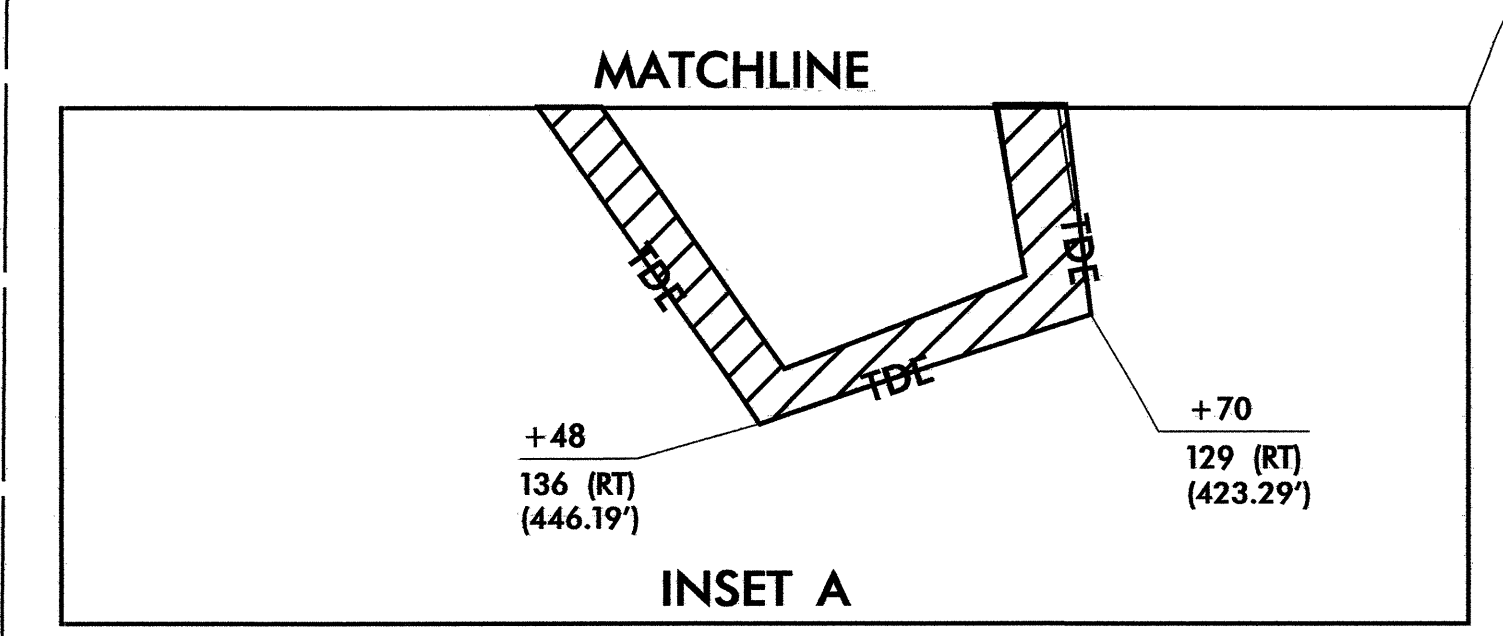
SEE SHEET 8

MATCHLINE -L- STA 77+60

SEE SHEET 10

MATCHLINE -L- STA 81+20

12
 PAUL A. LAWSON, SR.
 DB 872 PG 318
 26.288 HA (TAX MAP)



SEE DETAIL "B"
 PREFORMED SCOUR HOLE
 SEE DETAIL "G"

PREFORMED SCOUR HOLE
 SEE DETAIL "G"

PROPOSED BUFFER
 (IF POND IS DRAINED)

MARY L. KING
 DB 1037 PG 291
 20.194 HA (TAX MAP)

16 x 5 x 1
 51 mm Skimmer
 with 38 mm
 Orifice Diameter
 2.0 m weir

13 x 4 x 1
 1.5 m weir

14
 ROBERT L. BURGESS
 DB 1311 PG 596
 0.406 HA (TAX MAP)

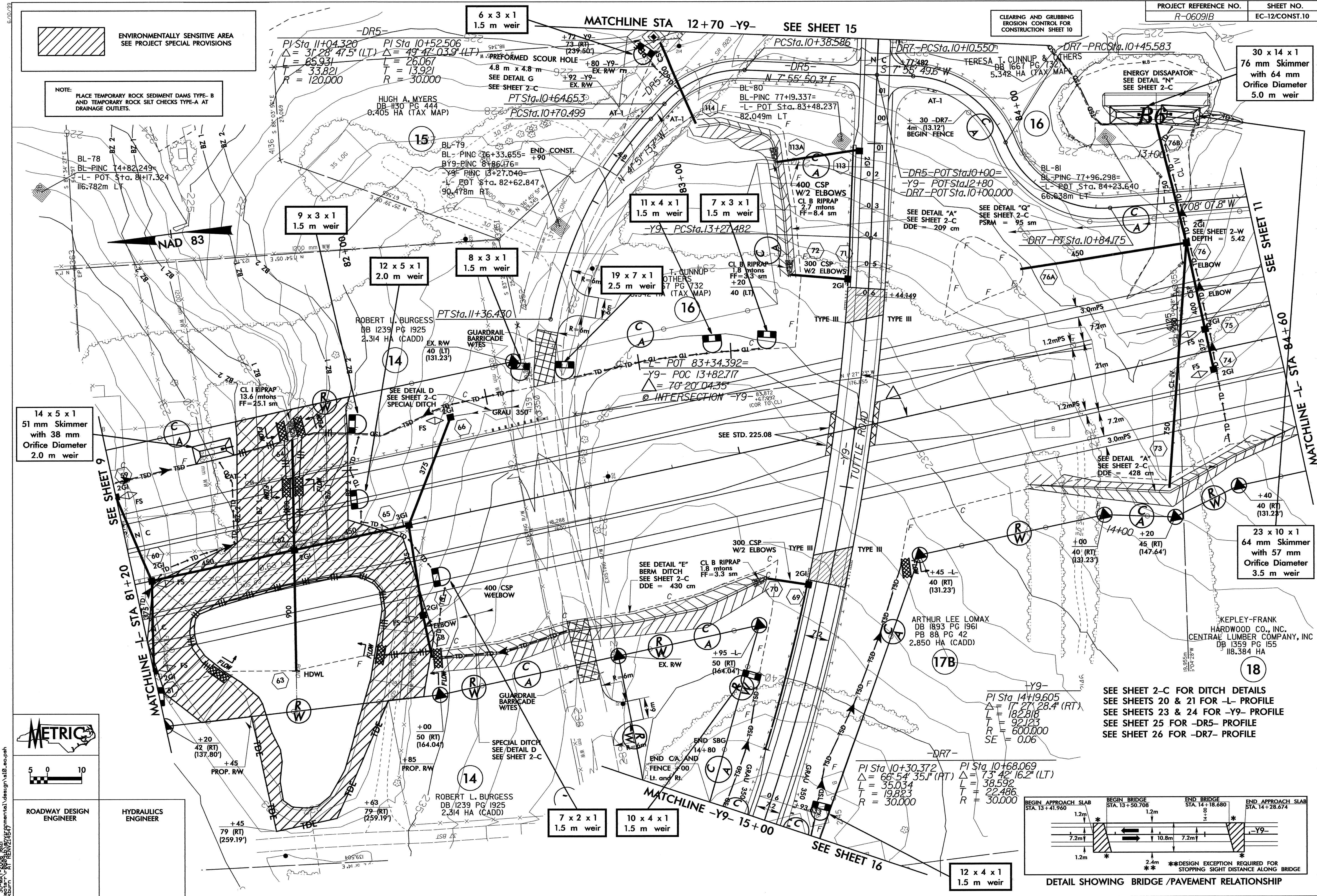
ROBERT L. BURGESS
 DB 1239 PG 1925
 2.314 HA (CADD)

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

30 x 14 x 1
76 mm Skimmer
with 64 mm
Orifice Diameter
5.0 m weir



14 x 5 x 1
51 mm Skimmer
with 38 mm
Orifice Diameter
2.0 m weir

9 x 3 x 1
1.5 m weir

12 x 5 x 1
2.0 m weir

8 x 3 x 1
1.5 m weir

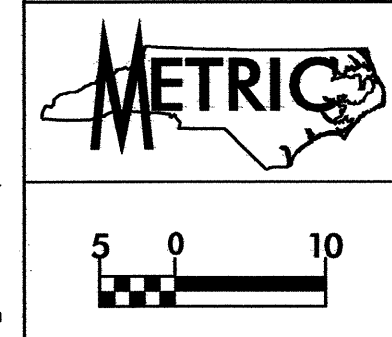
11 x 4 x 1
1.5 m weir

7 x 3 x 1
1.5 m weir

19 x 7 x 1
2.5 m weir

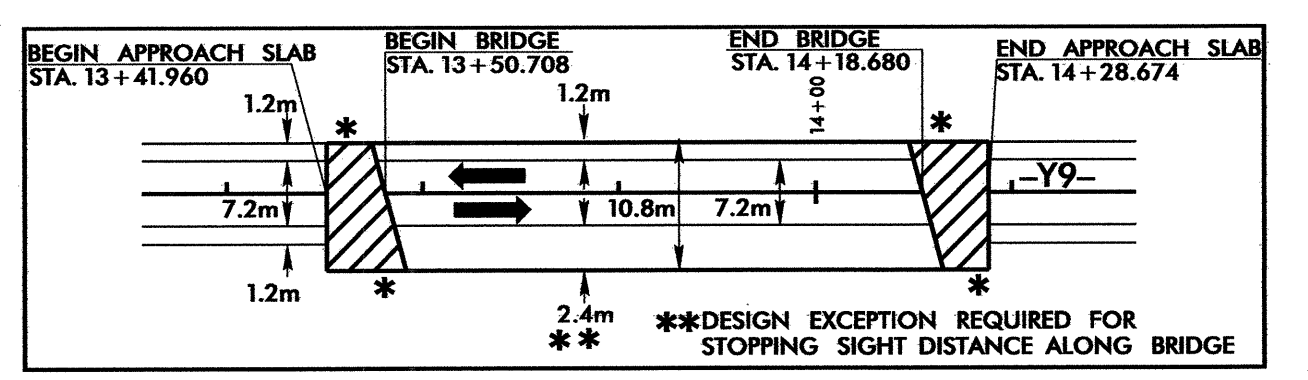
12 x 4 x 1
1.5 m weir

23 x 10 x 1
64 mm Skimmer
with 57 mm
Orifice Diameter
3.5 m weir



ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER

SEE SHEET 2-C FOR DITCH DETAILS
SEE SHEETS 20 & 21 FOR -L- PROFILE
SEE SHEETS 23 & 24 FOR -Y9- PROFILE
SEE SHEET 25 FOR -DR5- PROFILE
SEE SHEET 26 FOR -DR7- PROFILE

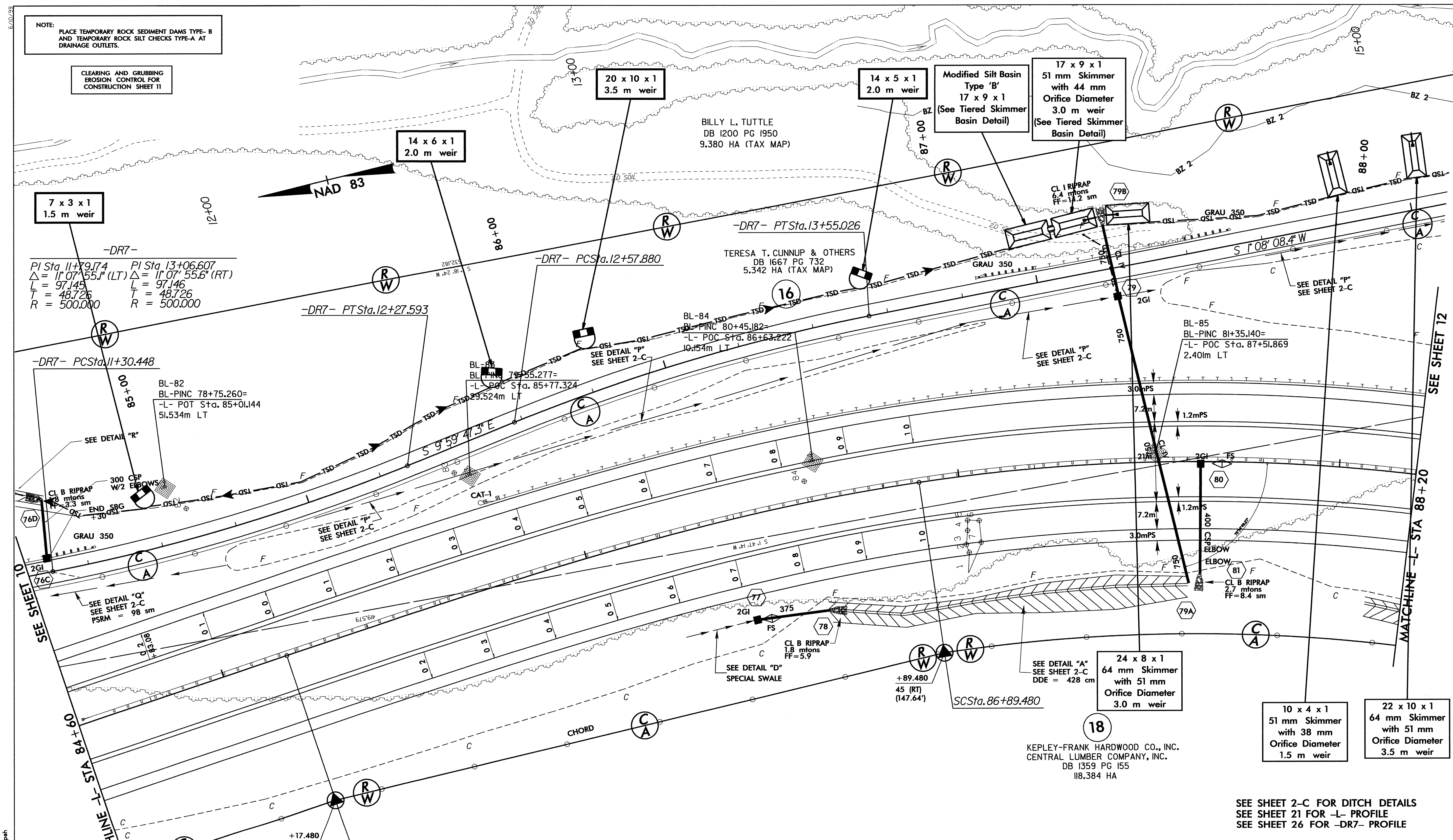


DETAIL SHOWING BRIDGE /PAVEMENT RELATIONSHIP

30-MAY-2008, Rev. 2
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NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE- B
AND TEMPORARY ROCK SILT CHECKS TYPE-A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11



7 x 3 x 1
1.5 m weir

14 x 6 x 1
2.0 m weir

20 x 10 x 1
3.5 m weir

14 x 5 x 1
2.0 m weir

Modified Silt Basin
Type 'B'
17 x 9 x 1
(See Tiered Skimmer
Basin Detail)

17 x 9 x 1
51 mm Skimmer
with 44 mm
Orifice Diameter
3.0 m weir
(See Tiered Skimmer
Basin Detail)

-DR7-
PI Sta 11+79.174 PI Sta 13+06.607
 $\Delta = 11^{\circ} 07' 55.1''$ (LT) $\Delta = 11^{\circ} 07' 55.6''$ (RT)
L = 97.145 L = 97.146
T = 48.726 T = 48.726
R = 500.000 R = 500.000

-DR7- PCSta.11+30.448

BL-82
BL-PINC 78+75.260=
-L- POT Sta. 85+01.144
51.534m LT

-DR7- PTSta.12+27.593

BL-86
BL-PINC 79+55.277=
-L- POT Sta. 85+77.324
29.524m LT

-DR7- PCSa.12+57.880

BL-84
BL-PINC 80+45.182=
-L- POT Sta. 86+63.222
10.154m LT

-DR7- PTSta.13+55.026

BILLY L. TUTTLE
DB 1200 PG 1950
9.380 HA (TAX MAP)

TERESA T. CUNNUP & OTHERS
DB 1667 PG 732
5.342 HA (TAX MAP)

BL-85
BL-PINC 81+35.140=
-L- POT Sta. 87+51.869
2.401m LT

SEE DETAIL "Q"
SEE SHEET 2-C
PSRM = 98 sm

SEE DETAIL "P"
SEE SHEET 2-C

SEE DETAIL "P"
SEE SHEET 2-C

SEE DETAIL "P"
SEE SHEET 2-C

SEE DETAIL "D"
SPECIAL SWALE

SEE DETAIL "A"
SEE SHEET 2-C
DDE = 428 cm

24 x 8 x 1
64 mm Skimmer
with 51 mm
Orifice Diameter
3.0 m weir

10 x 4 x 1
51 mm Skimmer
with 38 mm
Orifice Diameter
1.5 m weir

22 x 10 x 1
64 mm Skimmer
with 51 mm
Orifice Diameter
3.5 m weir

SEE SHEET 10

SEE SHEET 12

MATCHLINE -L- STA 88+20

MATCHLINE -L- STA 84+90

-L-
PIs Sta 86+32.332 PI Sta 87+74.061
 $\Theta_s = 10^{\circ} 03' 58.6''$ $\Delta = 19^{\circ} 36' 24.4''$ (RT)
Ls = 172.000 L = 167.508
LT = 114.853 T = 84.581
ST = 57.502 R = 489.500

18
KEPLEY-FRANK HARDWOOD CO., INC.
CENTRAL LUMBER COMPANY, INC.
DB 1359 PG 155
118.384 HA

SEE SHEET 2-C FOR DITCH DETAILS
SEE SHEET 21 FOR -L- PROFILE
SEE SHEET 26 FOR -DR7- PROFILE

METRIC

CONST. REV.
R/W REV.

PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-13/CONST.11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-18/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

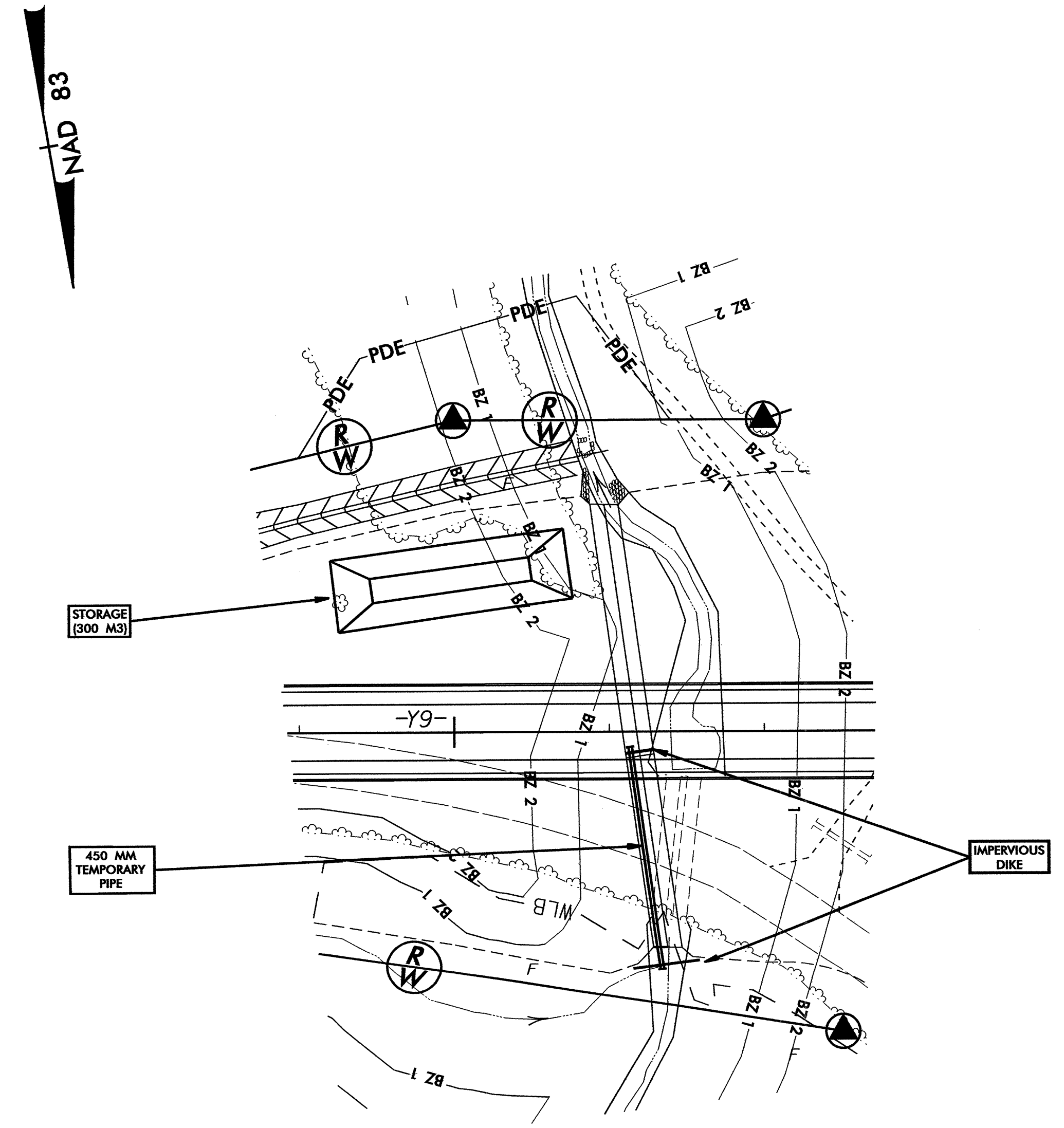
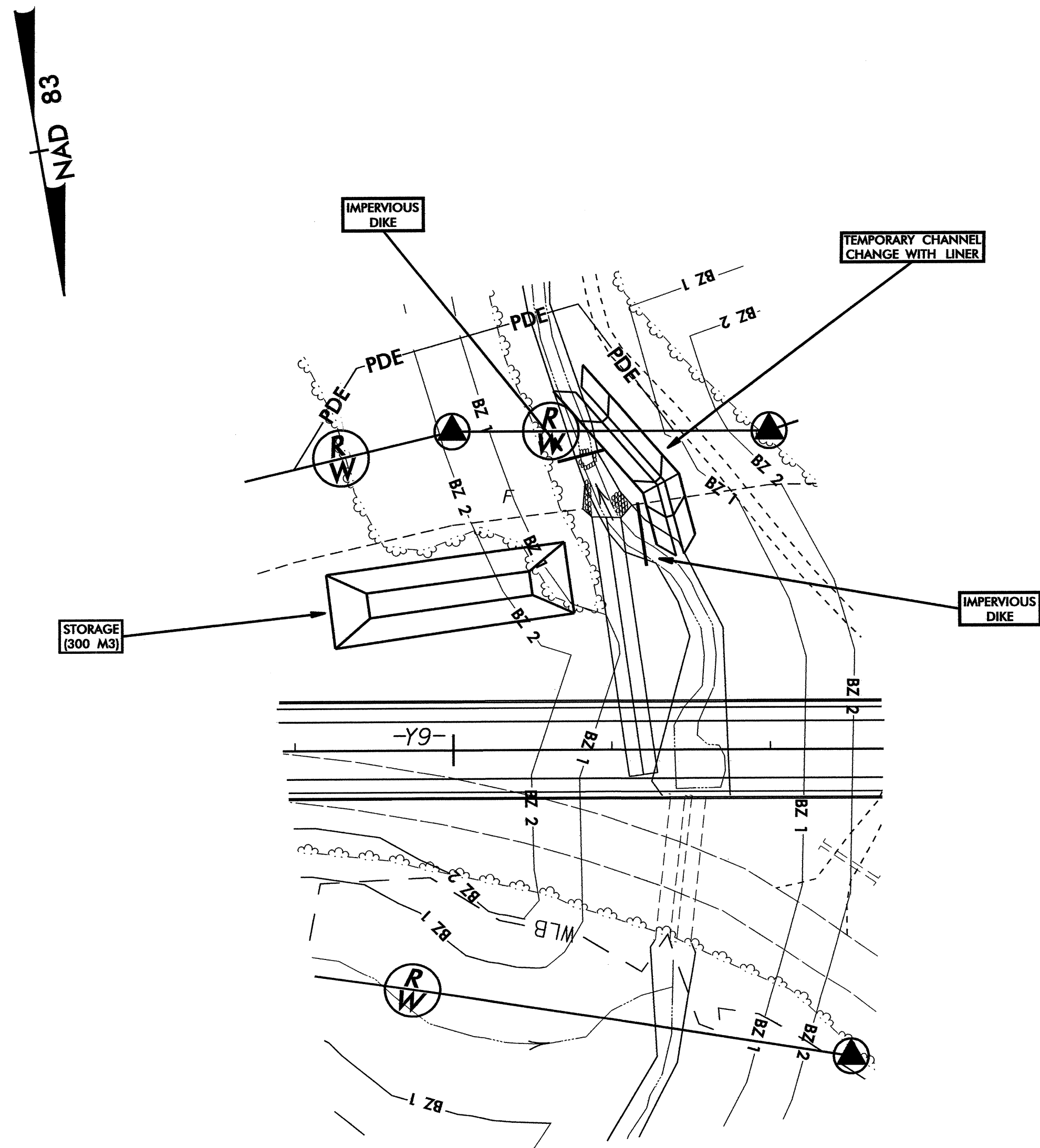
CULVERT CONSTRUCTION SEQUENCE STA. 12+23 -Y9-

PHASE I

PHASE II

1. CONSTRUCT STILLING BASIN (300 M3).
2. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (1M BASE, 1M DEEP, 2:1 SIDE SLOPES) AND IMPERVIOUS DIKES, DIVERTING FLOW.
3. CONSTRUCT 33M OF NEW 2 @ 1.8M X 2.4M RCBC.

4. REMOVE TEMPORARY CHANNEL CHANGE AND IMPERVIOUS DIKES FROM PHASE I.
5. INSTALL 450MM TEMPORARY PIPE AND CONSTRUCT IMPERVIOUS DIKES, DIVERTING FLOW INTO PORTION OF RCBC CONSTRUCTED IN PHASE I.
6. REMOVE EXISTING 1800MM CMP'S, AND CONSTRUCT REMAINDER OF NEW RCBC.
7. CONSTRUCT NECESSARY INLET AND OUTLET CHANNEL IMPROVEMENTS.
8. REMOVE TEMPORARY PIPE AND IMPERVIOUS DIKES, DIVERTING FLOW THROUGH CULVERT.
9. COMPLETE ROADWAY.

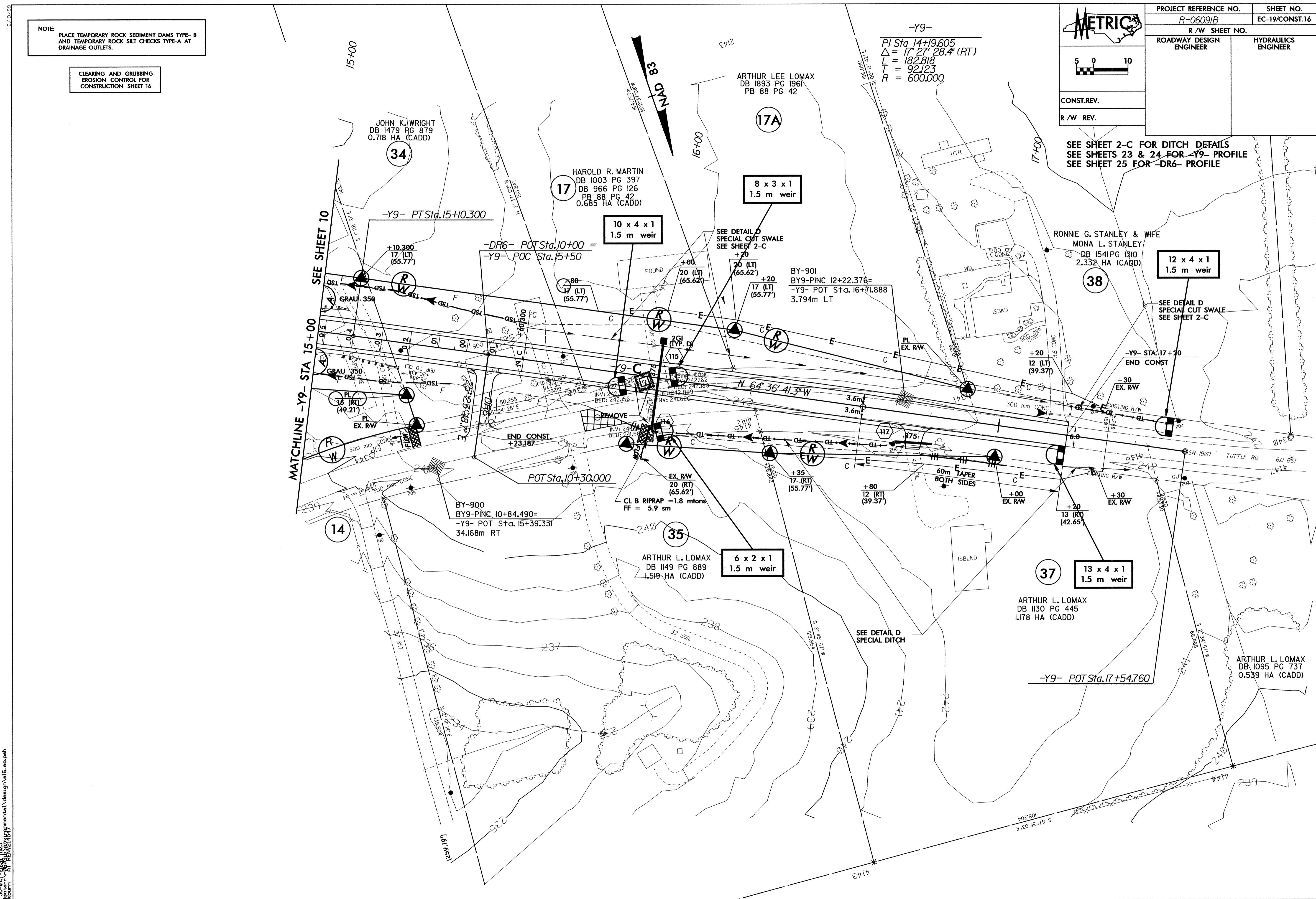


NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE-B AND TEMPORARY ROCK SILT CHECKS TYPE-A AT DRAINAGE OUTLETS.

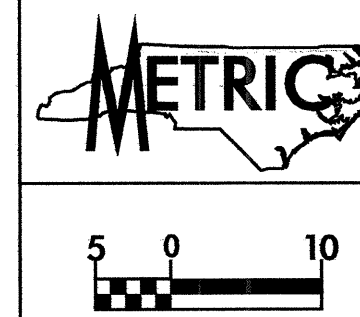
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 16

PROJECT REFERENCE NO. R-06091B		SHEET NO. EC-19/CONST.16
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
CONST.REV.		
R/W REV.		

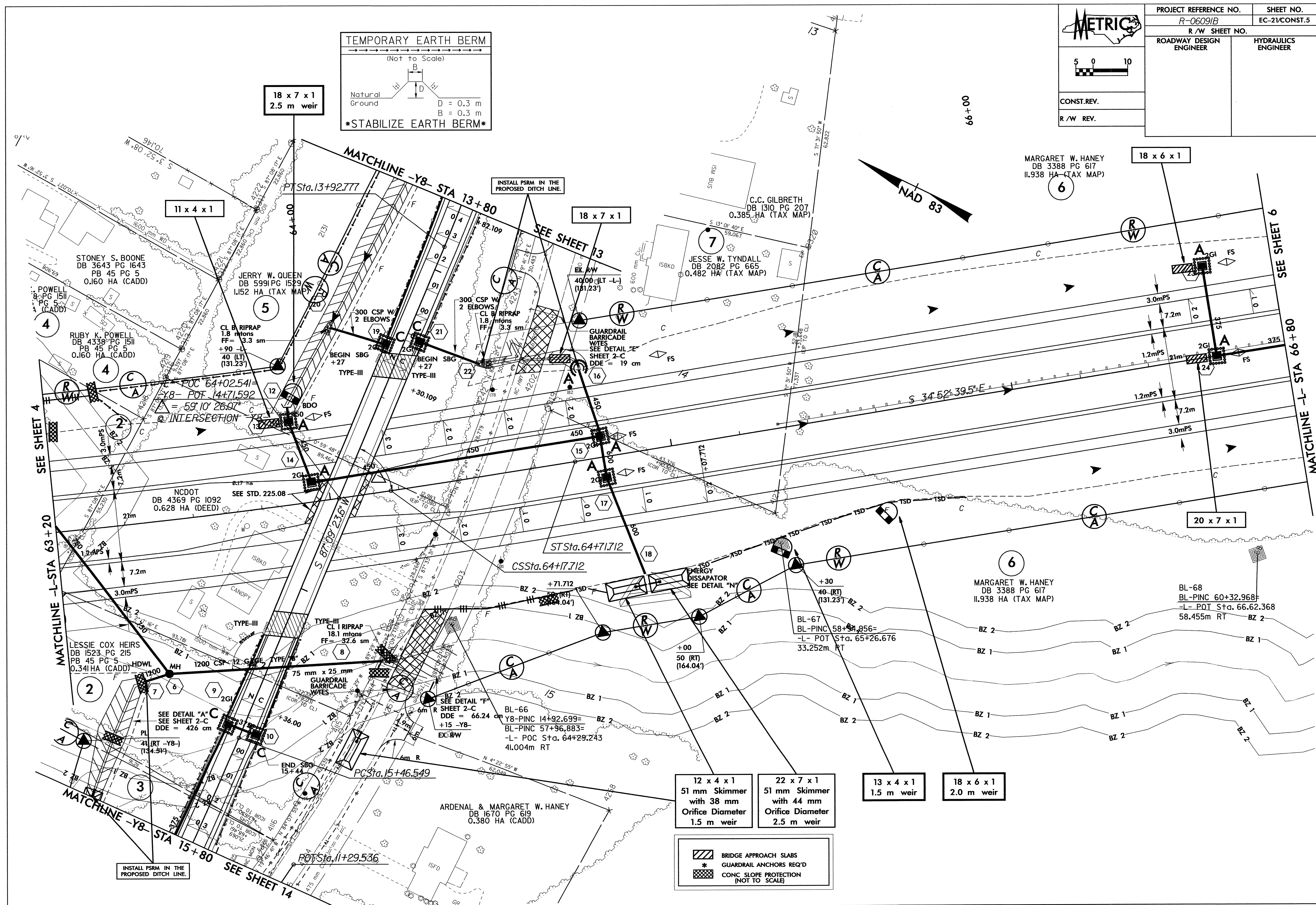
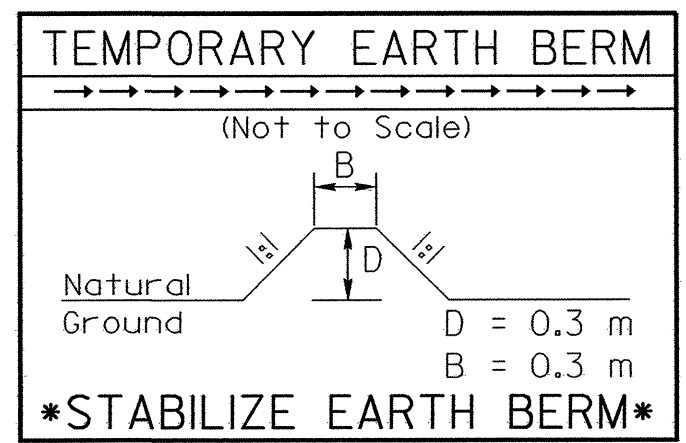
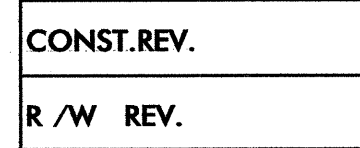
SEE SHEET 2-C FOR DITCH DETAILS
SEE SHEETS 23 & 24 FOR -Y9- PROFILE
SEE SHEET 25 FOR -DR6- PROFILE



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PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-2V/CONST.5
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
CONST.REV.	
R/W REV.	



18 x 7 x 1
2.5 m weir

11 x 4 x 1

18 x 7 x 1

18 x 6 x 1

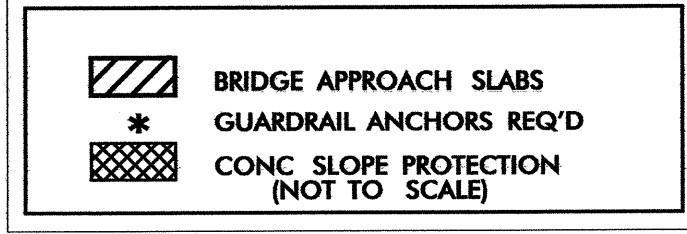
20 x 7 x 1

12 x 4 x 1
51 mm Skimmer
with 38 mm
Orifice Diameter
1.5 m weir

22 x 7 x 1
51 mm Skimmer
with 44 mm
Orifice Diameter
2.5 m weir

13 x 4 x 1
1.5 m weir

18 x 6 x 1
2.0 m weir



INSTALL PSRM IN THE PROPOSED DITCH LINE.

INSTALL PSRM IN THE PROPOSED DITCH LINE.

SEE SHEET 13

SEE SHEET 4

SEE SHEET 6

SEE SHEET 14

MATCHLINE -L- STA 63+20

MATCHLINE -Y8- STA 15+80

MATCHLINE -Y8- STA 13+80

MATCHLINE -L- STA 66+80

MARGARET W. HANEY
DB 3388 PG 617
11,938 HA (TAX MAP)

JESSE W. TYNDALL
DB 2082 PG 665
0.482 HA (TAX MAP)

JERRY W. QUEEN
DB 5991 PG 1529
1,152 HA (TAX MAP)

STONEY S. BOONE
DB 3643 PG 1643
PB 45 PG 5
0.160 HA (CADD)

RUBY K. POWELL
DB 4338 PG 1511
PB 45 PG 5
0.160 HA (CADD)

NCDOT
DB 4369 PG 1092
0.628 HA (DEED)

LESSIE COX HEIRS
DB 1523 PG 215
PB 45 PG 5
0.341 HA (CADD)

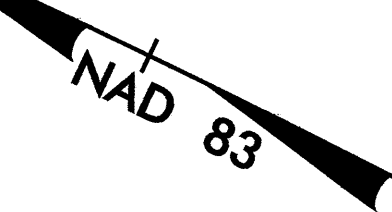
ARDENAL & MARGARET W. HANEY
DB 1670 PG 619
0.380 HA (CADD)

MARGARET W. HANEY
DB 3388 PG 617
11,938 HA (TAX MAP)

BL-68
BL-PINC 60+32.968
-L- POT Sta. 66.62.368
58.455m RT

BL-67
BL-PINC 58+31.956
-L- POT Sta. 65+26.676
33.252m RT

BL-66
Y8-PINC 14+92.699
BL-PINC 57+96.883
-L- POT Sta. 64+29.243
41.004m RT

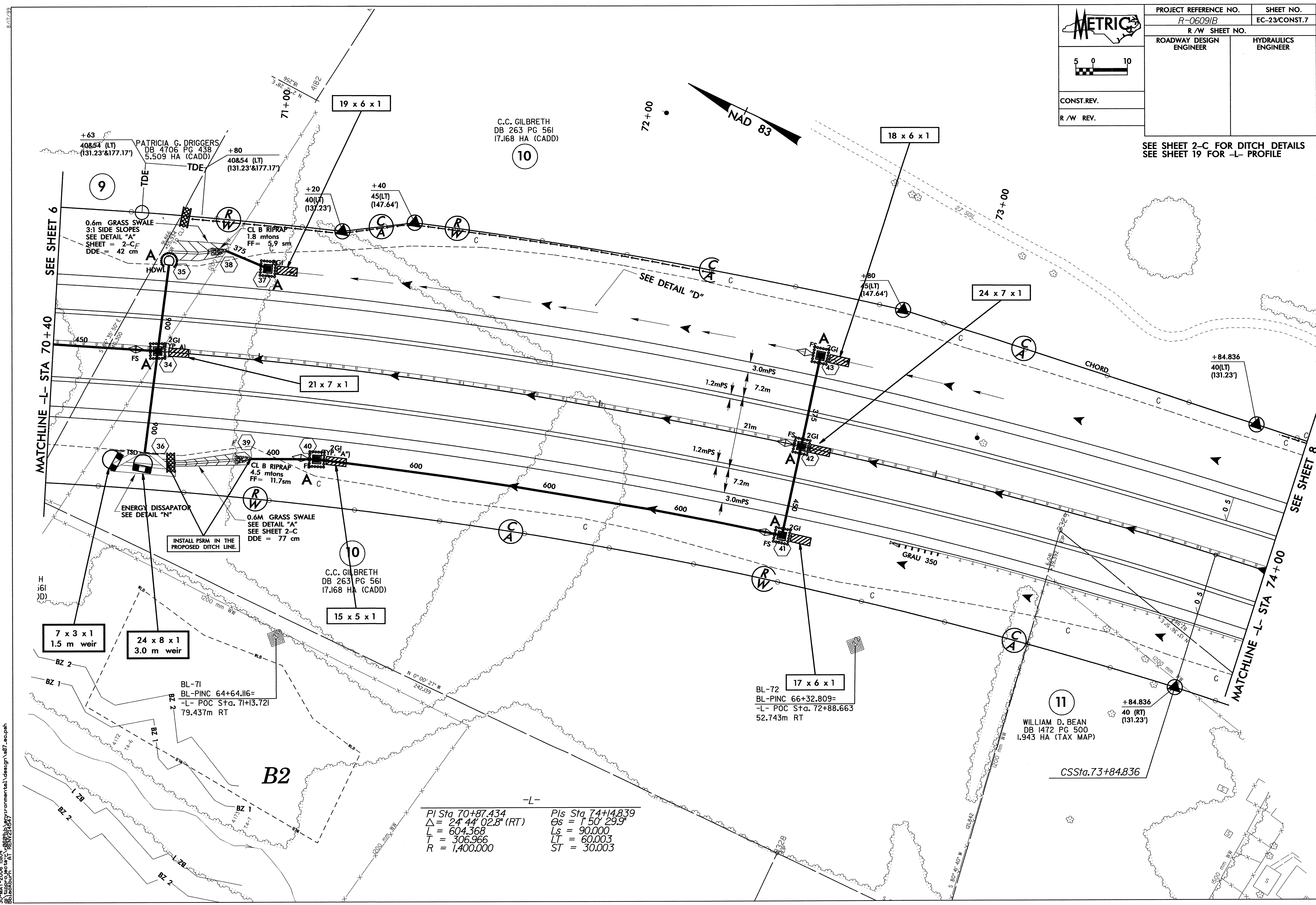


METRIC

CONST. REV.
R/W REV.

PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-23/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEET 2-C FOR DITCH DETAILS
SEE SHEET 19 FOR -L- PROFILE

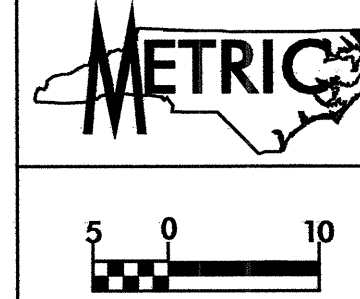


C.C. GILBRETH
DB 263 PG 561
17.168 HA (CADD)
10

11
WILLIAM D. BEAN
DB 1472 PG 500
1.943 HA (TAX MAP)
CSSta.73+84.836

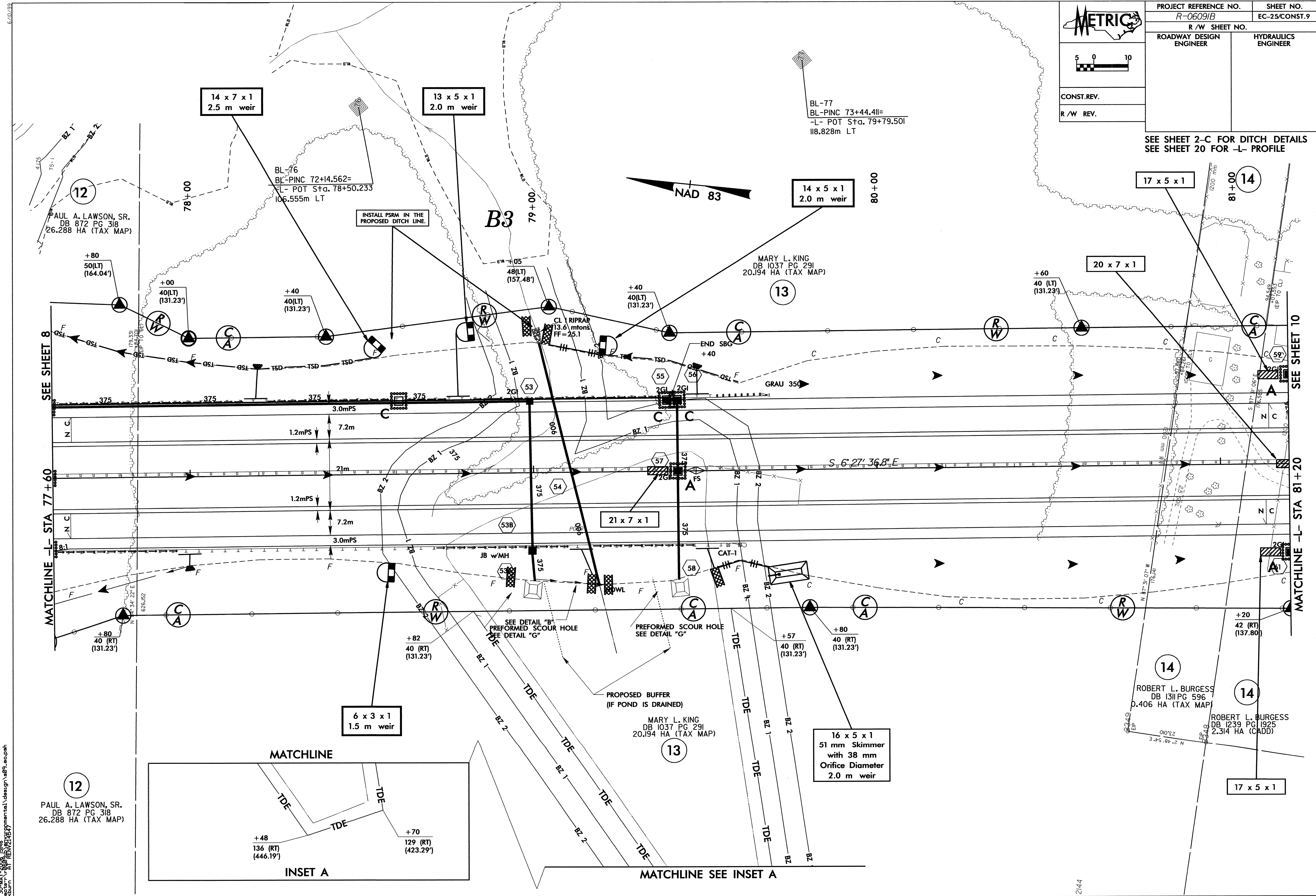
-L-
PI Sta 70+87.434
 $\Delta = 24^{\circ}44'02.8''$ (RT)
L = 604.368
T = 306.966
R = 1,400.000
PIs Sta 74+148.39
 $\Theta_s = 150^{\circ}29.9'$
Ls = 90.000
LT = 60.003
ST = 30.003

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PROJECT REFERENCE NO. R-06091B	SHEET NO. EC-25/CONST.9
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
CONST.REV.	
R/W REV.	

SEE SHEET 2-C FOR DITCH DETAILS
SEE SHEET 20 FOR -L- PROFILE

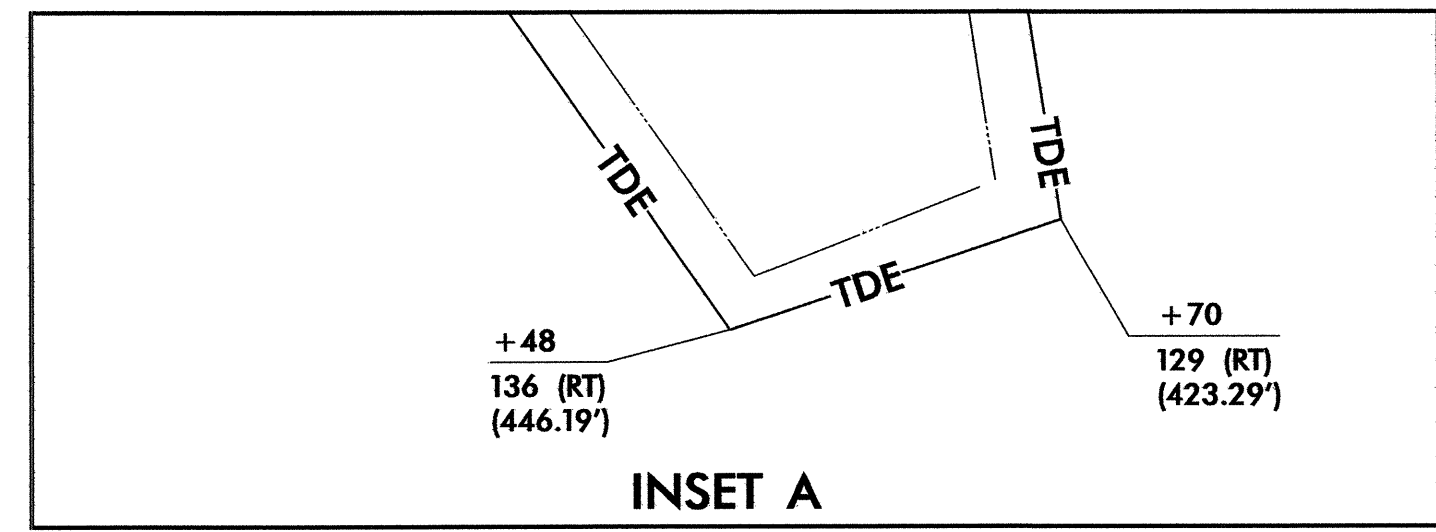


SEE SHEET 8

MATCHLINE -L- STA 77 + 60

12

PAUL A. LAWSON, SR.
DB 872 PG 318
26.288 HA (TAX MAP)



INSET A



BL-77
BL-PINC 73+44.411=
-L- POT Sta. 79+79.501
118.828m LT

14 x 7 x 1
2.5 m weir

13 x 5 x 1
2.0 m weir

14 x 5 x 1
2.0 m weir

17 x 5 x 1

14

20 x 7 x 1

21 x 7 x 1

6 x 3 x 1
1.5 m weir

16 x 5 x 1
51 mm Skimmer
with 38 mm
Orifice Diameter
2.0 m weir

17 x 5 x 1

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