PROJECT: W-4704

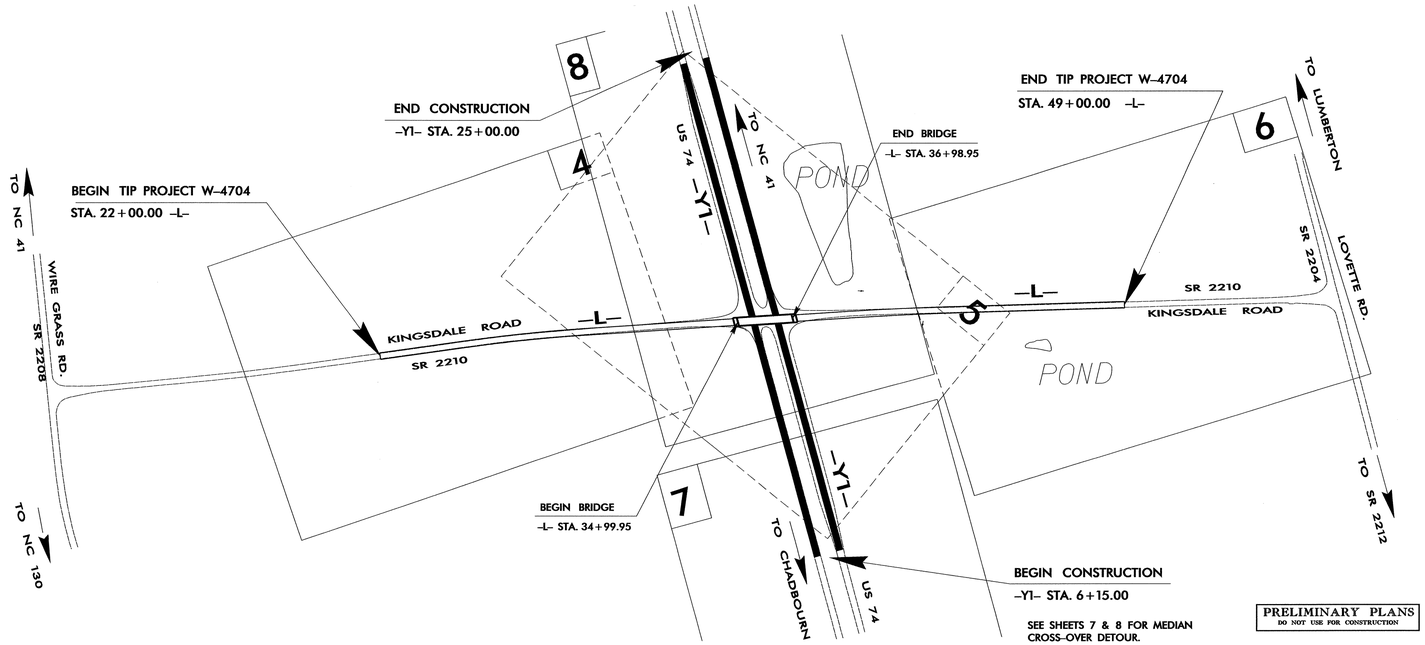
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

ROBESON COUNTY

LOCATION: BRIDGE OVER US 74 AT SR 2210
(OLD KINGSDALE RD)

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



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-4704	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
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.

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

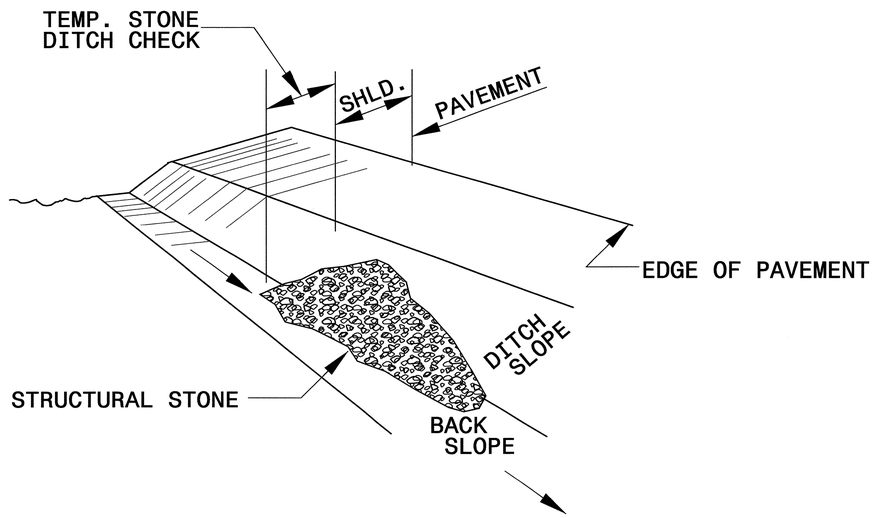
Roadway Standard Drawings

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 revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01	Temporary Silt 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
1630.03	Temporary Silt Ditch	1634.02	Temporary Rock Sediment Dam Type B
1630.05	Temporary Diversion	1635.02	Rock Pipe Inlet Sediment Trap Type B

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

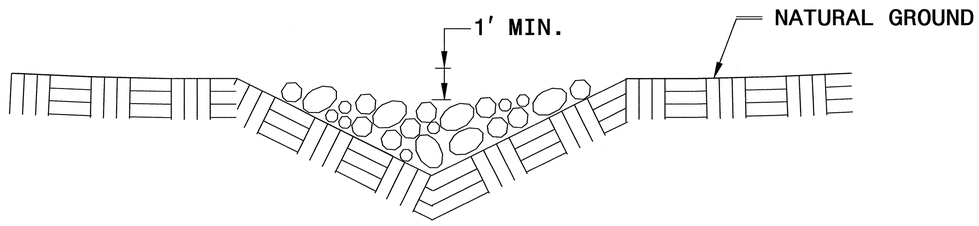


ISOMETRIC VIEW

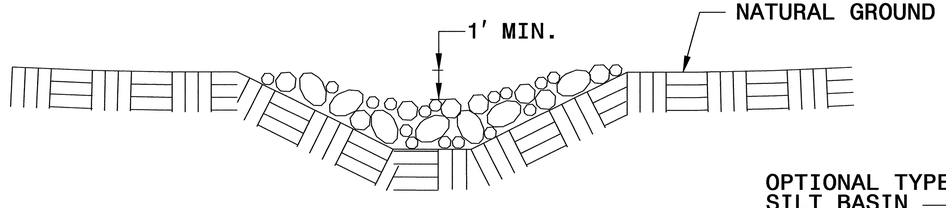
NOTES:

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

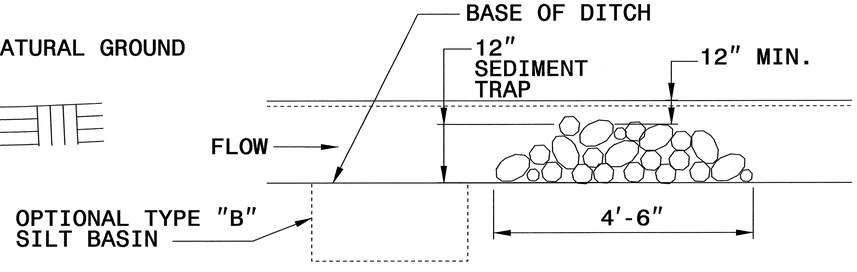
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



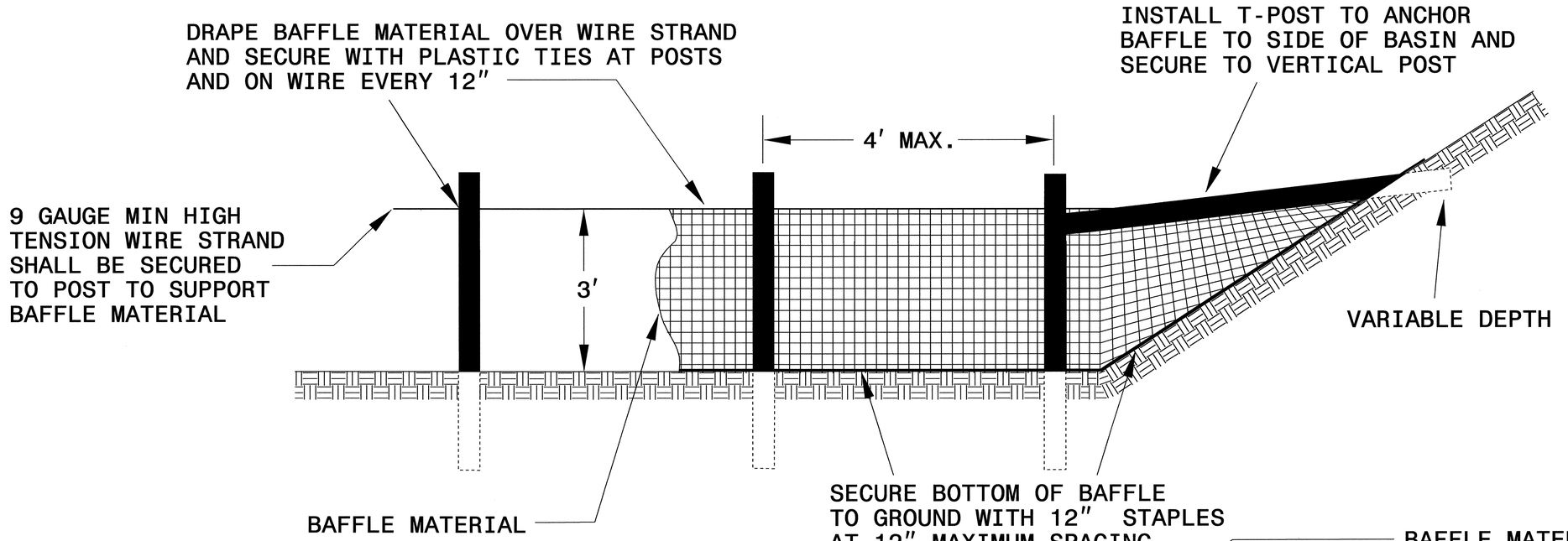
CROSS SECTION TRAPEZOIDAL DITCH

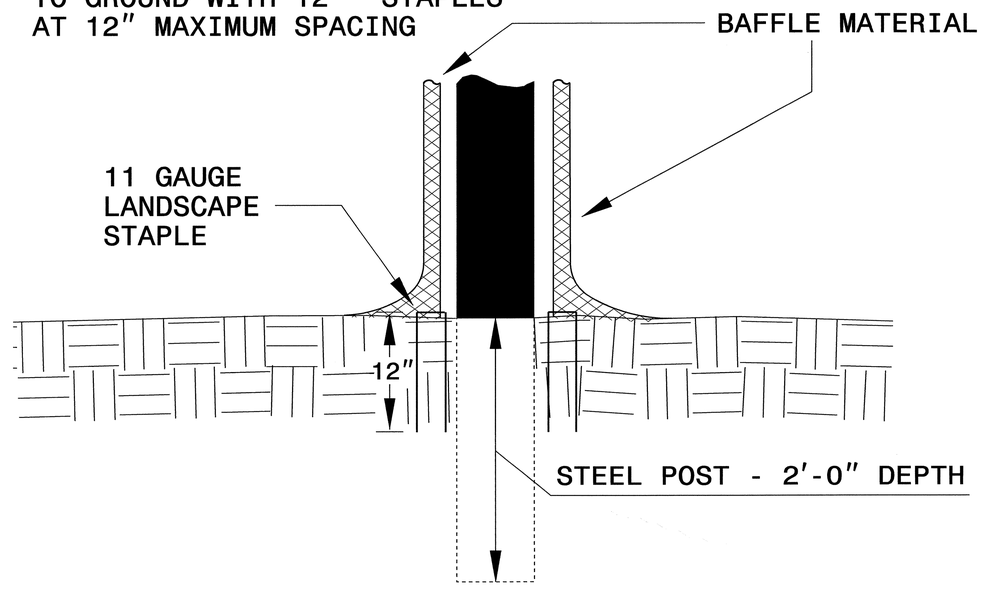


ELEVATION VIEW

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



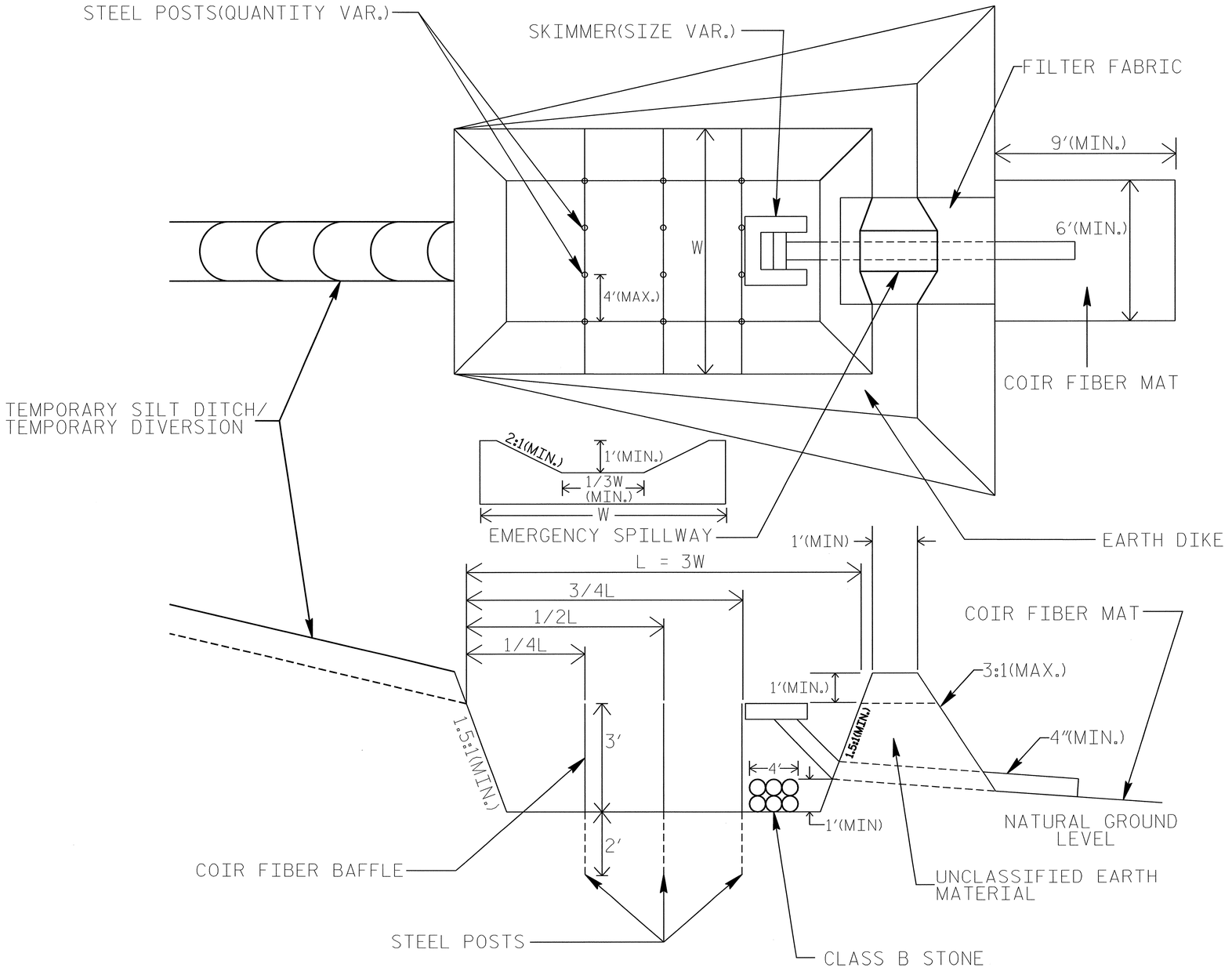


BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12″ LANDSCAPE STAPLES

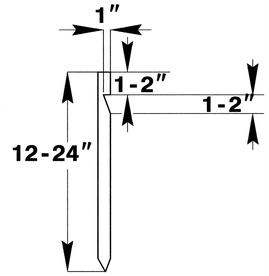
NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

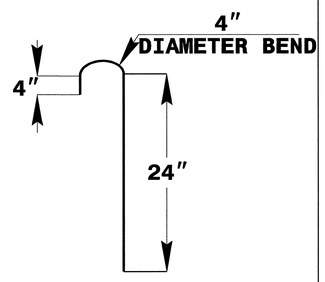
SKIMMER BASIN WITH BAFFLES DETAIL



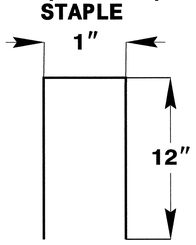
2" x 2" (nominal)
WOODEN STAKE



#10 STEEL
REINFORCEMENT BAR



1" (nominal)
STAPLE

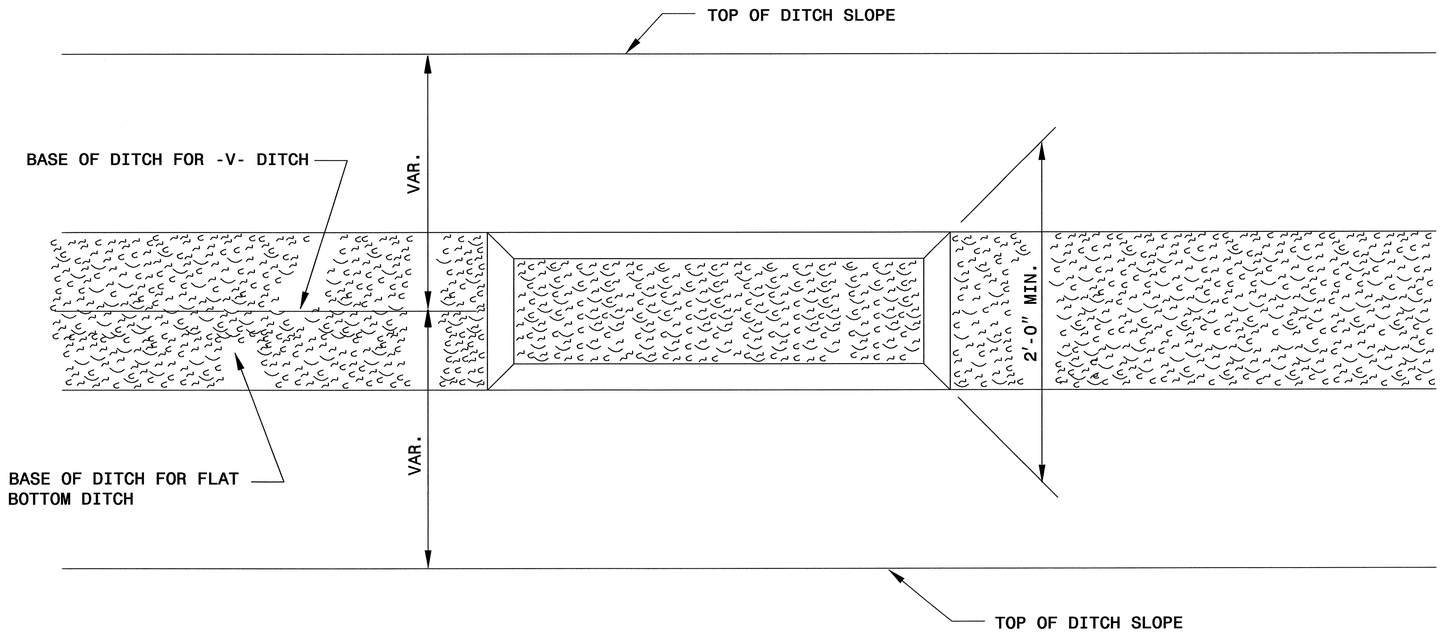


COIR FIBER MAT ANCHOR OPTIONS

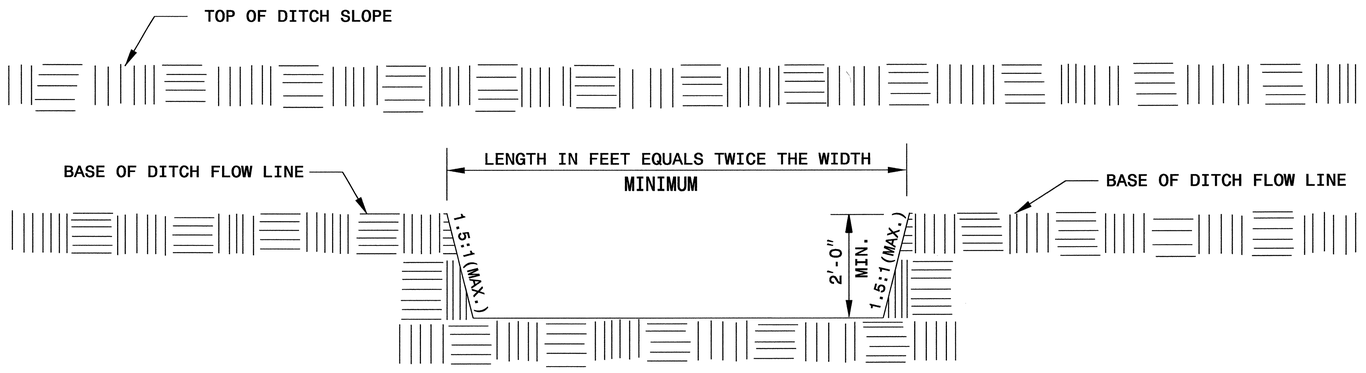
NOTES:
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT BASIN 'B' DETAIL



PLAN



ELEVATION

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	39+50	42+00	LT	235
				SUBTOTAL	235
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					23920
				TOTAL	24155
				SAY	24200

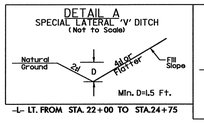
MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

8/17/99

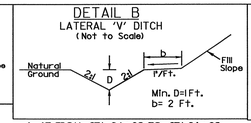
PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL A
SPECIAL LATERAL "V" DITCH
(Not to Scale)



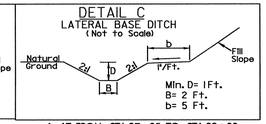
-L- LT. FROM STA. 22+00 TO STA.24+75

DETAIL B
LATERAL "V" DITCH
(Not to Scale)



-L- LT FROM STA. 24+85 TO STA.26+95

DETAIL C
LATERAL BASE DITCH
(Not to Scale)



-L- LT FROM STA.27+05 TO STA.33+00

-L-

PI Sta 17+42.16
Δ = 2° 24' 34.6" (LT)
D = 0° 59' 59.7"
L = 240.98'
T = 120.51'
R = 5,730.00'

PI Sta 27+33.11
Δ = 4° 21' 48.5" (RT)
D = 0° 59' 59.7"
L = 436.38'
T = 218.30'
R = 5,730.00'
S.E.= 0.03

NAD 83'95

-L- PT Sta. 18+62.63

BEGIN PROJECT W-4704
-L- POT STA. 22+00.00
BEGIN CONSTRUCTION

55 x 20 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
10 ft. weir
ID 4.1C

56 x 20 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
10 ft. weir
ID 4.2C

20+00

25+00

30+00

HAL STEPHENS
DB 16V PG 47

JAMES G MARTIN
DB 722 PG 74

BL-3
-BL- PINC STA. 19+87.90 =
-L- STA 25+13.16 (17.62' RT)

-L- 25+14.82
EXIST R/W

SPECIAL V DITCH
SEE DETAIL A.

-L- +75.00
80.00' LT

-L- +33.50
BEGIN C/A
85.00' LT

-L- +51.20
102.50' LT

BEG.PROP.SHLD.
BERM GUTTER
-L- STA.30+18.00

-L- +33.07
BEGIN C/A
82.00' RT

-L- +51.20
102.50' RT

BEGIN PROP.
W/W FENCE
-L- +33.07

BEGIN PROP.
W/W FENCE
+33.50

PROP.W/W FENCE

BEG.PROP.SHLD.
BERM GUTTER
-L- STA 27+98.00

-L- PT Sta. 25+14.82

-L- PT Sta. 29+51.20

MATCHLINE -L- 31+00.00, SEE SHEET 5.

HOUSE UNDER CONSTRUCTION

LETTIE SUE HEDGEPETH
DB 1357 PG 63

JOHNNY HEDGEPETH
DB 8KPG 65
WILL BK 69 PG 93

AVENDER RAY COLLINS
DB 626 PG 599

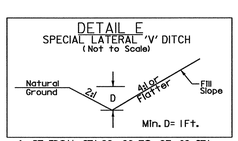
AVENDER RAY COLLINS
DB 411PG 265

43 x 20 x 3
7 ft. weir
ID 4.3C

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

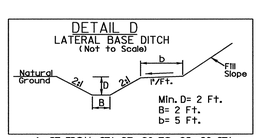
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

DETAIL E
SPECIAL LATERAL "V" DITCH
(Not to Scale)



-L- RT. FROM STA.22+00 TO 27+10 STA.

DETAIL D
LATERAL BASE DITCH
(Not to Scale)



-L- RT. FROM STA. 27+20 TO 35+30 STA.

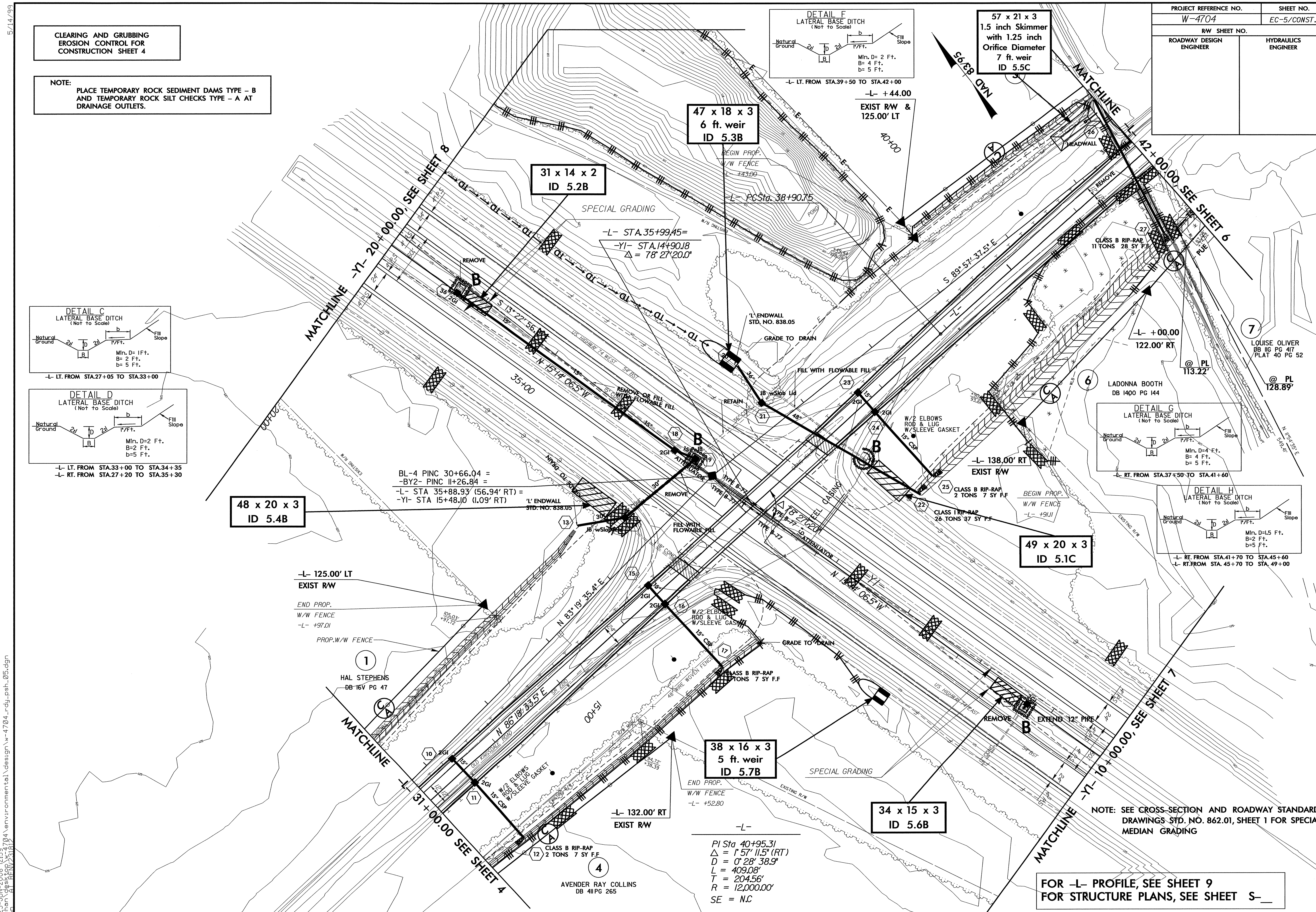
FOR -L- PROFILE, SEE SHEET 9

23-JUN-2008 12:57
c:\documents and settings\rchan\desktop\w-4704\environmental\design\w-4704_rdy_psh_04.dgn
rchan AT REN23812

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS 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.



DETAIL C
LATERAL BASE DITCH
(Not to Scale)
Min. D= 1 Ft.
B= 2 Ft.
b= 5 Ft.
-L- LT. FROM STA.27+05 TO STA.33+00
DETAIL D
LATERAL BASE DITCH
(Not to Scale)
Min. D=2 Ft.
B=2 Ft.
b=5 Ft.
-L- LT. FROM STA.33+00 TO STA.34+35
-L- RT. FROM STA.27+20 TO STA.35+30
DETAIL F
LATERAL BASE DITCH
(Not to Scale)
Min. D= 2 Ft.
B= 4 Ft.
b= 5 Ft.
-L- LT. FROM STA.39+50 TO STA.42+00
DETAIL G
LATERAL BASE DITCH
(Not to Scale)
Min. D=4 Ft.
B= 4 Ft.
b= 5 Ft.
-L- RT. FROM STA.37+50 TO STA.41+60
DETAIL H
LATERAL BASE DITCH
(Not to Scale)
Min. D=1.5 Ft.
B=2 Ft.
b=5 Ft.
-L- RT. FROM STA.41+70 TO STA.45+60
-L- RT.FROM STA. 45+70 TO STA. 49+00
57 x 21 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 5.5C
47 x 18 x 3
6 ft. weir
ID 5.3B
31 x 14 x 2
ID 5.2B
48 x 20 x 3
ID 5.4B
49 x 20 x 3
ID 5.1C
38 x 16 x 3
5 ft. weir
ID 5.7B
34 x 15 x 3
ID 5.6B
NAD 83/95
MATCHLINE -Y1- 20+00.00, SEE SHEET 8
MATCHLINE 42+00.00 SEE SHEET 6
MATCHLINE -Y1- 10+00.00, SEE SHEET 7
MATCHLINE -L- 31+00.00 SEE SHEET 4
SPECIAL GRADING
-L- STA.35+99.45=
-Y1- STA.14+90.18
Δ = 78° 27' 20.0"
-L- PC Sta. 38+90.75
BEGIN PROP. W/W FENCE -L- +43.00
-L- +44.00
EXIST R/W & 125.00' LT
BL-4 PINC 30+66.04 =
-BY2- PINC 11+26.84 =
-L- STA 35+88.93 (56.94' RT) =
-Y1- STA 15+48.10 (1.09' RT)
'L' ENDWALL STD. NO. 838.05
GRADE TO DRAIN
FILL WITH FLOWABLE FILL
REMOVE OR FILL WITH FLOWABLE FILL
RETAIN
REMOVE
HEADWALL
CLASS B RIP-RAP 11 TONS 28 SY F.F
CLASS B RIP-RAP 2 TONS 7 SY F.F
CLASS I RIP-RAP 26 TONS 37 SY F.F
CLASS B RIP-RAP 2 TONS 7 SY F.F
-L- +00.00 122.00' RT
-L- 138.00' RT EXIST R/W
BEGIN PROP. W/W FENCE -L- +91.11
-L- 125.00' LT EXIST R/W
END PROP. W/W FENCE -L- +97.01
PROP. W/W FENCE
-L- 132.00' RT EXIST R/W
END PROP. W/W FENCE -L- +52.80
W/2 ELBOWS ROD & LUG W/SLEEVE GASKET
EXTEND 12" PIPE
1 HAL STEPHENS DB 16V PG 47
4 AVENDER RAY COLLINS DB 411 PG 265
6 LADONNA BOOTH DB 1400 PG 144
7 LOUISE OLIVER DB 11G PG 417 PLAT 40 PG 52
@ PL 113.22'
@ PL 128.89'
S 89° 57' 37.5" E
N 15°14' 06.5" W
N 83°19' 35.4" E
N 86°18' 33.5" E
S 13°22' 56" E
US HIGHWAY 74 WEST
-L-
PI Sta 40+95.31
Δ = 1° 57' 11.5" (RT)
D = 0° 28' 38.9"
L = 409.08'
T = 204.56'
R = 12,000.00'
SE = N.C

NOTE: SEE CROSS-SECTION AND ROADWAY STANDARD DRAWINGS STD. NO. 862.01, SHEET 1 FOR SPECIAL MEDIAN GRADING

FOR -L- PROFILE, SEE SHEET 9
FOR STRUCTURE PLANS, SEE SHEET S-__

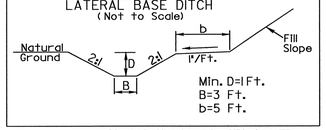
5/14/99

23-JUN-2008 12:59

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-6/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL I
LATERAL BASE DITCH
(Not to Scale)



Min. D=1 Ft.
B=3 Ft.
b=5 Ft.

-L- LT. FROM STA.42+00 TO STA.45+75
-L- LT. FROM STA. 45+85 TO 49+00

-L-
PI Sta 40+95.31
△ = 1° 57' 11.5" (RT)
D = 0° 28' 38.9"
L = 409.08'
T = 204.56'
R = 12,000.00'
SE = N.C.

NAD 83'95

5
LADONNA BOOTH
DB 1400 PG 144

41 x 18 x 3
6 ft. weir
ID 6.1C

-L- +99.83
96.00' LT

43 x 18 x 3
6 ft. weir
ID 6.3B

MATCHLINE -L- 42+00.00 SHEET 5.

PROP.W/W FENCE

RETAIN

END PROP.SHLD.
BERM GUTTER
-L- STA.44+77.00

END PROP.W/W FENCE
-L- +50.00

45+00

-L- 45+50.00
END C/A
EXIST. R/W

50+00

END PROJECT W-4704
-L- POT STA. 49+00.00
END CONSTRUCTION

-Y2- POT Sta. 20+00.00

HEADWALL

TD

W/2 ELBOWS ROD & LUG W/SLEEVE GASKET

GRAU 350

REMOVE

EXISTING R/W

-L-

CLASS B RIP-RAP
2 TONS 7 SY F.F

-L- +99.83
95.00' RT

PUE

PROP.W/W FENCE

ABAN. BARN

POND

CLASS B RIP-RAP
2 TONS
7 SY F.F

-L- +20.00
83.28'

7
LOUISE OLIVER
DB 116 PG 417
PLAT 40 PG 52

-L- PT Sta. 42+99.83

-L- +20.00
100'

END PROP.SHLD.
BERM GUTTER
-L- STA.44+77.00

END PROP.W/W FENCE
-L- +50.00

-L- 45+50.00
END C/A
EXIST. R/W

N 88° 15' 45" E

R/W MON.
±63.11
30.00'

OLD KINGSDALE ROAD SR 2210 24' BST

EXISTING R/W

-L- POT Sta. 56+63.24

24" BK HEAD WALL

15" CONC.

CONC.

15+00

55+00

LADONNA BOOTH
DB 1400 PG 144

LOUISE OLIVER
DB 116 PG 417
PLAT 40 PG 52

CHRISTOPHER DAVIS
DB 1018 PG 227

238.54' N 04°15'34" W

240.44'
S 75°25'55" W

N 14° 37' 18" W

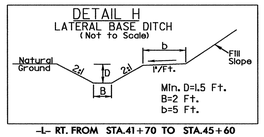
-Y2-

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 6

47 x 18 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
6 ft. weir
ID 6.2B

DETAIL H
LATERAL BASE DITCH
(Not to Scale)



Min. D=1.5 Ft.
B=2 Ft.
b=5 Ft.

-L- RT. FROM STA.41+70 TO STA.45+60
-L- RT. FROM STA. 45+70 TO STA. 49+00

FOR -L- PROFILE, SEE SHEET 10

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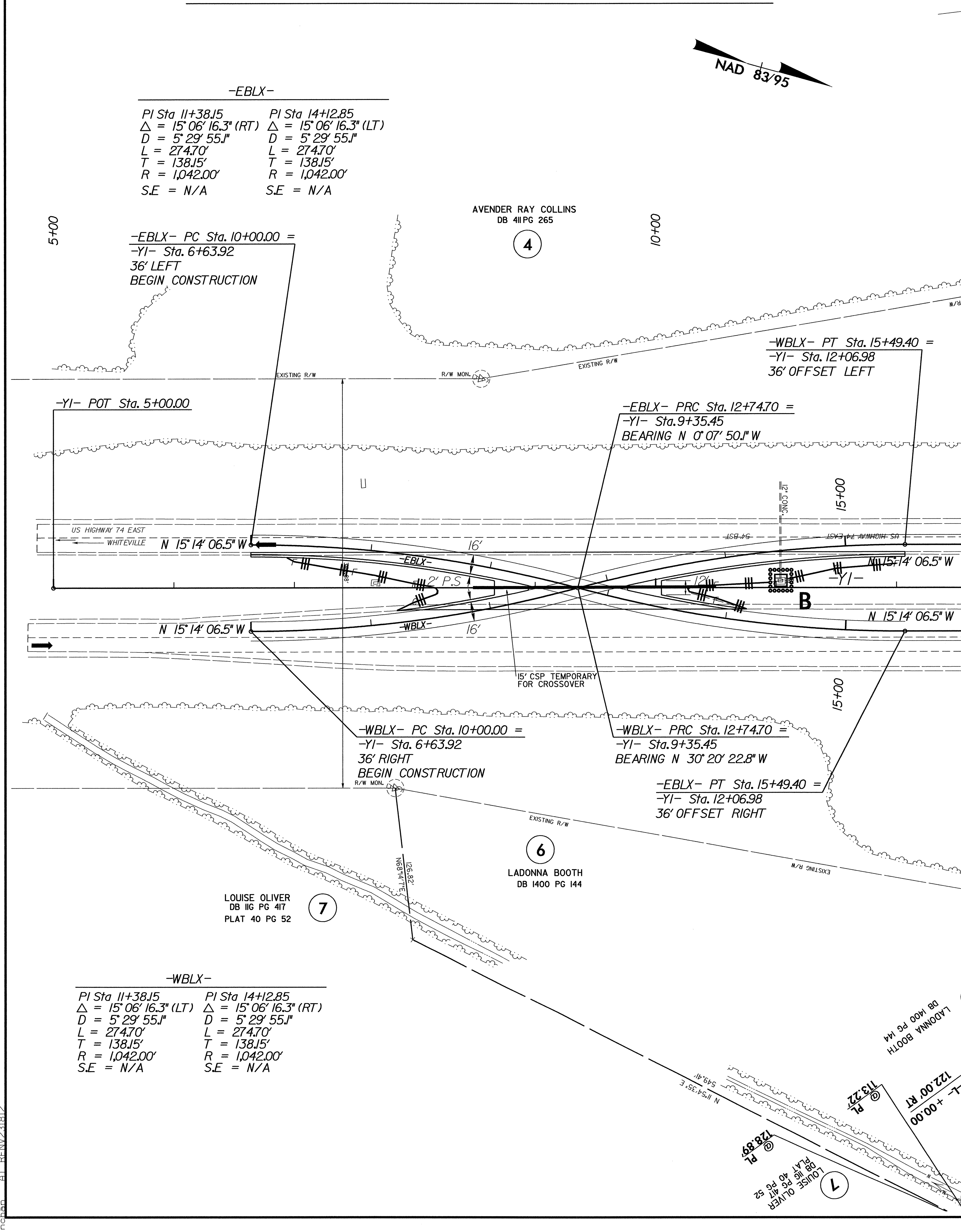
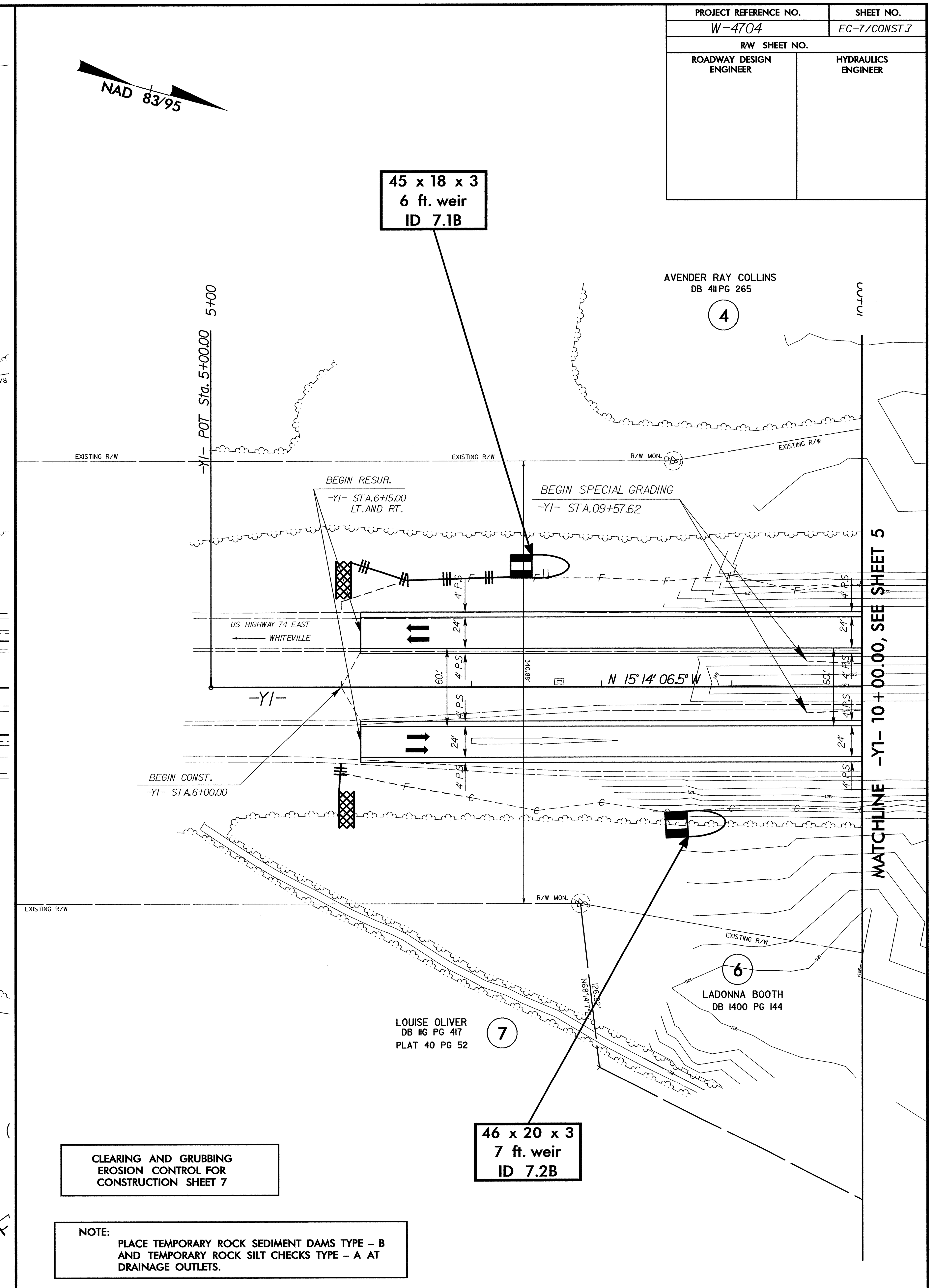
US 74 TEMPORARY CROSSOVER FOR BRIDGE CONSTRUCTION (SOUTH)





CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

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

NOTE: SEE CROSS-SECTION AND ROADWAY STANDARD DRAWINGS STD. NO. 862.01, SHEET 1 FOR SPECIAL MEDIAN GRADING

5/14/99

US 74 TEMPORARY CROSSOVER FOR BRIDGE CONSTRUCTION (NORTH)

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-8/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

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

NAD 83/95

-WBLX-

PI Sta 24+02.57
Δ = 15° 06' 16.3" (LT)
D = 5° 29' 55.1"
L = 274.70'
T = 138.15'
R = 1,042.00'
S.E = N/A

PI Sta 26+77.27
Δ = 15° 06' 16.3" (RT)
D = 5° 29' 55.1"
L = 274.70'
T = 138.15'
R = 1,042.00'
S.E = N/A

1
HAL STEPHENS
DB 16V PG 47

WBLX PC Sta. 22+64.42 =
-Y1- Sta. 19+22.00
36' OFFSET LEFT

WBLX PRC Sta. 25+39.12 =
-Y1- Sta. 21+93.53
BEARING N 0° 07' 50.1" W

EBLX PT Sta. 28+13.82 =
-Y1- Sta. 24+65.06
36' LEFT
END CONSTRUCTION

EXISTING R/W
R/W MON.
20+00
25+00
N 15° 14' 06.5" W
EBLX
WBLX
16'
12'
15' C.S.P. TEMPORARY FOR CROSSOVER

EBLX PC Sta. 22+64.42 =
-Y1- Sta. 19+22.00
36' OFFSET RIGHT

EBLX PRC Sta. 25+39.12 =
-Y1- Sta. 21+93.53
BEARING N 30° 20' 22.8" W

WBLX PT Sta. 28+13.82 =
-Y1- Sta. 24+65.06
36' RIGHT
END CONSTRUCTION

-Y1- +49.00
EXIST R/W

-Y1- +00.00
401.00' RT

-Y1- +27.00
450' RT

5
LADONNA BOOTH
DB 1400 PG 144

-EBLX-

PI Sta 24+02.57
Δ = 15° 06' 16.3" (RT)
D = 5° 29' 55.1"
L = 274.70'
T = 138.15'
R = 1,042.00'
S.E = N/A

PI Sta 26+77.27
Δ = 15° 06' 16.3" (LT)
D = 5° 29' 55.1"
L = 274.70'
T = 138.15'
R = 1,042.00'
S.E = N/A

MATCHLINE -Y1- 20+00.00, SEE SHEET 5

END RESUR.
-Y1- STA.24+65.06
LT. AND RT.

END SPECIAL GRADING
-Y1- STA.20+24.21

-Y1- POT Sta. 26+00.00

4" P.S.
24'
60'

US HIGHWAY 74 WEST
LUMBERTON

-Y1- STA.25+00.00
END CONST.

34 x 15 x 3
5 ft. weir
ID 8.1B

S 87°33'24" E
1368.70'

NOTE: SEE CROSS-SECTION AND ROADWAY STANDARD DRAWINGS STD. NO. 862.01, SHEET 1 FOR SPECIAL MEDIAN GRADING

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AT REV 23.18.2

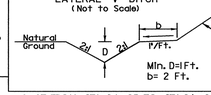
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-9/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL A
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

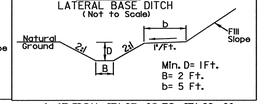
-L- LT. FROM STA. 22+00 TO STA.24+75

DETAIL B
LATERAL 'V' DITCH
(Not to Scale)



-L- LT FROM STA. 24+85 TO STA.26+95

DETAIL C
LATERAL BASE DITCH
(Not to Scale)



-L- LT FROM STA.27+05 TO STA.33+00

-L-

PI Sta 17+42.16
Δ = 2° 24' 34.6" (LT)
D = 0° 59' 59.7"
L = 240.98'
T = 120.51'
R = 5,730.00'

PI Sta 27+33.11
Δ = 4° 21' 48.5" (RT)
D = 0° 59' 59.7"
L = 436.38'
T = 218.30'
R = 5,730.00'
S.E.= 0.03

NAD 83'95

BEGIN PROJECT W-4704
-L- POT STA. 22+00.00
BEGIN CONSTRUCTION

72 x 17 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
10 ft. weir
ID 4.5F

67 x 17 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
10 ft. weir
ID 4.6F

63 x 15 x 3
6 ft. weir
ID 4.4F

65 x 18 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 4.7F

-L- PT Sta. 18+62.63

JAMES G MARTIN
DB 722 PG 74

HAL STEPHENS
DB 16V PG 47

LETTIE SUE HEDGEPETH
DB 1357 PG 63

JOHNNY HEDGEPETH
DB 8KPG 65
WILL BK 69 PG 93

1 HAL STEPHENS DB 16V PG 47

2 JOHNNY HEDGEPETH DB 8KPG 65 WILL BK 69 PG 93

3 AVENDER RAY COLLINS DB 626 PG 599

4 AVENDER RAY COLLINS DB 411PG 265

BL-3
-BL- PINC STA. 19+87.90 =
-L- STA 25+13.16 (17.62' RT)

-L- 25+14.82
EXIST R/W

SPECIAL V DITCH
SEE DETAIL A.

-L- PC Sta. 25+14.82

-L- +75.00
80.00' LT

-L- +33.50
BEGIN C/A
85.00' LT

-L- +51.20
102.50' LT

-L- +33.07
BEGIN C/A
82.00' RT

-L- +51.20
102.50' RT

-L- PT Sta. 29+51.20

BEGIN PROP. W/W FENCE +33.50

BEGIN PROP. W/W FENCE -L- +33.07

PROP. W/W FENCE

BEG. PROP. SHLD. BERM GUTTER -L- STA. 30+18.00

BEG. PROP. SHLD. BERM GUTTER -L- STA 27+98.00

CLASS B RIP-RAP 2 TONS 7 SY F.F

REMOVE TWO PIPES

REMOVE

W/2 ELBOWS & LUG W/SLEEVE GASKET

GRAU 350

24" CONC.

15" CSP

8" PVC

27' INC. TYP.

N 82° 05' 06.8" E

N 81° 56' 45.0" E

N 83° 19' 35.4" E

TO SR 2208

PLACED PER PLANS

HOUSE UNDER CONSTRUCTION

MATCHLINE -L- 31+00.00, SEE SHEET 5.

FOR -L- PROFILE, SEE SHEET 9

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rchan AT REN(23.12)

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-10/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE -Y1- 20+00.00, SEE SHEET 8

MATCHLINE -L- 42+00.00, SEE SHEET 6

MATCHLINE -L- 31+00.00 SEE SHEET 4

MATCHLINE -Y1- 10+00.00, SEE SHEET 7

NAD 83/95

DETAIL C
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 2d, D, B, 2d, b, 1'/Ft., Fill Slope

Min. D= 1Ft.
B= 2 Ft.
b= 5 Ft.

-L- LT. FROM STA.27+05 TO STA.33+00

DETAIL D
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 2d, D, B, 2d, b, 1'/Ft., Fill Slope

Min. D=2 Ft.
B=2 Ft.
b=5 Ft.

-L- LT. FROM STA.33+00 TO STA.34+35
-L- RT. FROM STA.27+20 TO STA.35+30

DETAIL F
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 2d, D, B, 2d, b, 1'/Ft., Fill Slope

Min. D= 2 Ft.
B= 4 Ft.
b= 5 Ft.

-L- LT. FROM STA.39+50 TO STA.42+00

DETAIL G
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 2d, D, B, 2d, b, 1'/Ft., Fill Slope

Min. D=4 Ft.
B= 4 Ft.
b= 5 Ft.

-L- RT. FROM STA.37+50 TO STA.41+60

DETAIL H
LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 2d, D, B, 2d, b, 1'/Ft., Fill Slope

Min. D=1.5 Ft.
B=2 Ft.
b=5 Ft.

-L- RT. FROM STA.41+70 TO STA.45+60
-L- RT.FROM STA. 45+70 TO STA. 49+00

55 x 18 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 5.10F

47 x 18 x 3
6 ft. weir
ID 5.3B

31 x 14 x 2
ID 5.2B

48 x 20 x 3
ID 5.4B

33 x 13 x 3
ID 5.8F

38 x 16 x 3
5 ft. weir
ID 5.7B

34 x 15 x 3
ID 5.6B

68 x 18 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
6 ft. weir
ID 5.9F

-L- +44.00
EXIST R/W &
125.00' LT

-L- +00.00
122.00' RT

-L- 138.00' RT
EXIST R/W

-L- 125.00' LT
EXIST R/W

-L- 132.00' RT
EXIST R/W

BEGIN PROP. W/W FENCE
-L- +43.00

END PROP. W/W FENCE
-L- +97.01

PROP. W/W FENCE

BEGIN PROP. W/W FENCE
-L- +91.11

END PROP. W/W FENCE
-L- +52.80

-L- PCSta. 38+90.75

-L- STA.35+99.45=
-Y1- STA.14+90.18
Δ = 78° 27' 20.0"

BL-4 PINC 30+66.04 =
-BY2- PINC 11+26.84 =
-L- STA 35+88.93 (56.94' RT) =
-Y1- STA 15+48.10 (1.09' RT)

-L-
PI Sta 40+95.31
Δ = 1° 57' 11.5" (RT)
D = 0° 28' 38.9"
L = 409.08'
T = 204.56'
R = 12,000.00'
SE = N.C

SPECIAL GRADING

REMOVE

REMOVE OR FILL WITH FLOWABLE FILL

FILL WITH FLOWABLE FILL

'L' ENDWALL
STD. NO. 838.05

GRADE TO DRAIN

RETAIN

JB w/Slab Lid

W/2 ELBOWS
ROD & LUG
W/SLEEVE GASKET

CLASS B RIP-RAP
2 TONS 7 SY F.F

CLASS I RIP-RAP
26 TONS 37 SY F.F

HEADWALL

EXTEND 12" PIPE

S 13° 22' 56.5" E

N 15° 14' 06.5" W

N 83° 19' 35.4" E

S 89° 57' 37.5" E

N 89° 06' 06.5" W

1 HAL STEPHENS
DB 16V PG 47

2 AVENDER RAY COLLINS
DB 411 PG 265

4 AVENDER RAY COLLINS
DB 411 PG 265

6 LADONNA BOOTH
DB 1400 PG 144

7 LOUISE OLIVER
DB 116 PG 417
PLAT 40 PG 52

@ PL
113.22'

@ PL
128.89'

NOTE: SEE CROSS-SECTION AND ROADWAY STANDARD DRAWINGS STD. NO. 862.01, SHEET 1 FOR SPECIAL MEDIAN GRADING

FOR -L- PROFILE, SEE SHEET 9
FOR STRUCTURE PLANS, SEE SHEET S-__

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rchan AT REN/2316/2

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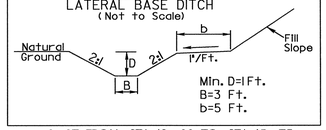
PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-11/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

45 x 14 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
5 ft. weir
ID 6.4F

DETAIL I
LATERAL BASE DITCH
(Not to Scale)



Min. D=1 Ft.
B=3 Ft.
b=5 Ft.

-L- LT. FROM STA.42+00 TO STA.45+75
-L- LT. FROM STA. 45+85 TO 49+00

-L-
PI Sta 40+95.31
△ = 1° 57' 11.5" (RT)
D = 0° 28' 38.9"
L = 409.08'
T = 204.56'
R = 12,000.00'
SE = N.C.

NAD 83/95

43 x 18 x 3
6 ft. weir
ID 6.3B

MATCHLINE -L- 42+00.00 SHEET 5.

5
LADONNA BOOTH
DB 1400 PG 144

-L- +99.83
96.00' LT

PROP.W/W FENCE

END PROP.W/W FENCE
-L- +50.00

45+00

END PROP.SHLD.
BERM GUTTER
-L- STA.44+77.00

-L- 45+50.00
END C/A
EXIST. R/W

RETAIN

26 HEADWALL

28 CONC. CI

29 CONC. CI

15" CSP

W/2 ELBOWS
ROD & LUG
W/SLEEVE GASKET

D.A.T.U.R

30 PUE

CLASS B RIP-RAP
2 TONS 7 SY F.F

-L- +99.83
95.00' RT

PROP.W/W FENCE

48" WIRE WOVEN FENCE

ABAN. BARN

7
LOUISE OLIVER
DB 116 PG 417
PLAT 40 PG 52

-L- PTSta. 42+99.83

-L- +20.00
100'

53 x 19 x 3
6 ft. weir
ID 6.5F

32 CONC. CI

GRAU 350

33 CONC. CI

CLASS B
RIP-RAP
2 TONS
7 SY F.F

-L- +20.00
83.28'

34 CONC. CI

15"

8" PVC

R=10'

REMOVE

EXISTING R/W

35 CONC. CI

POND

±63.32
10.00'

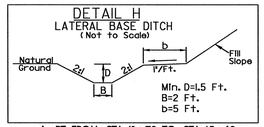
END PROP.SHLD.
BERM GUTTER
-L- STA.44+77.00

END PROP.W/W FENCE
-L- +50.00

-L- 45+50.00
END C/A
EXIST. R/W

47 x 18 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
6 ft. weir
ID 6.2B

DETAIL H
LATERAL BASE DITCH
(Not to Scale)



Min. D=1.5 Ft.
B=2 Ft.
b=5 Ft.

-L- RT. FROM STA.41+70 TO STA.45+60
-L- RT. FROM STA. 45+70 TO STA. 49+00

50+00

END PROJECT W-4704
-L- POT STA. 49+00
END CONSTRUCTION

N 88° 15' 45.10" E

±63.18
30.00'

R/W MONU.

OLD KINGSDALE ROAD SR 2210 24' BST

LADONNA BOOTH
DB 1400 PG 144

55+00

-Y2- POTSta. 20+00.00

60.00'

D.A.T.U.R

CONST. CL ROAD SR 2210

N 14° 37' 18.0" W

-Y2-

15+00

15" CONC.

24" BK HEAD WALL

CONC.

G

15 BK. D

LOUISE OLIVER
DB 116 PG 417
PLAT 40 PG 52

-L- POTSta. 56+63.24

CHRISTOPHER DAVIS
DB 1018 PG 227

N 01° 45' 34" W
238.28'

240.44'
S 75° 25' 55" W

±70.92
30.00'

FOR -L- PROFILE, SEE SHEET 10

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nchan AT REN/23/12

US 74 TEMPORARY CROSSOVER FOR BRIDGE CONSTRUCTION (SOUTH)

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-12/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

-EBLX-

PI Sta 11+38.15	PI Sta 14+12.85
△ = 15° 06' 16.3" (RT)	△ = 15° 06' 16.3" (LT)
D = 5° 29' 55.1"	D = 5° 29' 55.1"
L = 274.70'	L = 274.70'
T = 138.15'	T = 138.15'
R = 1,042.00'	R = 1,042.00'
S.E = N/A	S.E = N/A

AVENDER RAY COLLINS
DB 411 PG 265
4

5+00

10+00

15+00

-EBLX- PC Sta. 10+00.00 =
-Y1- Sta. 6+63.92
36' LEFT
BEGIN CONSTRUCTION

-Y1- POT Sta. 5+00.00

-WBLX- PT Sta. 15+49.40 =
-Y1- Sta. 12+06.98
36' OFFSET LEFT

-EBLX- PRC Sta. 12+74.70 =
-Y1- Sta. 9+35.45
BEARING N 0° 07' 50.1" W

EXISTING R/W

R/W MON.

US HIGHWAY 74 EAST
WHITEVILLE

N 15° 14' 06.5" W

-EBLX-

16'

2' P.S.

-Y1-

-WBLX-

15' CSP TEMPORARY FOR CROSSOVER

-WBLX- PC Sta. 10+00.00 =
-Y1- Sta. 6+63.92
36' RIGHT
BEGIN CONSTRUCTION

-WBLX- PRC Sta. 12+74.70 =
-Y1- Sta. 9+35.45
BEARING N 30° 20' 22.8" W

-EBLX- PT Sta. 15+49.40 =
-Y1- Sta. 12+06.98
36' OFFSET RIGHT

LADONNA BOOTH
DB 1400 PG 144
6

LOUISE OLIVER
DB 11G PG 417
PLAT 40 PG 52
7

N 54°35' E
549.41'

PI @ 113.27'

L- +00.00
122.00' RT

PI @ 128.89'

LOUISE OLIVER
DB 11G PG 417
PLAT 40 PG 52

LADONNA BOOTH
DB 1400 PG 144

-WBLX-

PI Sta 11+38.15	PI Sta 14+12.85
△ = 15° 06' 16.3" (LT)	△ = 15° 06' 16.3" (RT)
D = 5° 29' 55.1"	D = 5° 29' 55.1"
L = 274.70'	L = 274.70'
T = 138.15'	T = 138.15'
R = 1,042.00'	R = 1,042.00'
S.E = N/A	S.E = N/A

NAD 83/95

45 x 18 x 3
6 ft. weir
ID 7.1B

AVENDER RAY COLLINS
DB 411 PG 265
4

5+00

-Y1- POT Sta. 5+00.00

BEGIN RESUR.
-Y1- STA.6+15.00
LT. AND RT.

BEGIN SPECIAL GRADING
-Y1- STA.09+57.62

EXISTING R/W

R/W MON.

US HIGHWAY 74 EAST
WHITEVILLE

4' P.S.

24'

60'

N 15° 14' 06.5" W

-Y1-

BEGIN CONST.
-Y1- STA.6+00.00

LADONNA BOOTH
DB 1400 PG 144
6

LOUISE OLIVER
DB 11G PG 417
PLAT 40 PG 52
7

46 x 20 x 3
7 ft. weir
ID 7.2B

MATCHLINE -Y1- 10+00.00, SEE SHEET 5

NOTE: SEE CROSS-SECTION AND ROADWAY STANDARD DRAWINGS STD. NO. 862.01, SHEET 1 FOR SPECIAL MEDIAN GRADING

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nchan 21 REV(23.12)

5/14/99

US 74 TEMPORARY CROSSOVER FOR BRIDGE CONSTRUCTION (NORTH)

PROJECT REFERENCE NO.	SHEET NO.
W-4704	EC-13/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/95

-WBLX-

PI Sta 24+02.57	PI Sta 26+77.27
△ = 15° 06' 16.3" (LT)	△ = 15° 06' 16.3" (RT)
D = 5° 29' 55.1"	D = 5° 29' 55.1"
L = 274.70'	L = 274.70'
T = 138.15'	T = 138.15'
R = 1,042.00'	R = 1,042.00'
S.E = N/A	S.E = N/A

1 HAL STEPHENS DB 16V PG 47

20+00 25+00

EXISTING R/W

WBLX PC Sta. 22+64.42 =
-Y1- Sta. 19+22.00
36' OFFSET LEFT

EBLX PT Sta. 28+13.82 =
-Y1- Sta. 24+65.06
36' LEFT
END CONSTRUCTION

WBLX PRC Sta. 25+39.12 =
-Y1- Sta. 21+93.53
BEARING N 0° 07' 50.1" W

N 15° 14' 06.5" W

16' 12' 16' EBLX WBLX

N 15° 14' 06.5" W N 15° 14' 06.5" W N 15° 14' 06.5" W

25+00

15" RCP TEMPORARY FOR CROSSOVER

EBLX PC Sta. 22+64.42 =
-Y1- Sta. 19+22.00
36' OFFSET RIGHT

EBLX PRC Sta. 25+39.12 =
-Y1- Sta. 21+93.53
BEARING N 30° 20' 22.8" W

WBLX PT Sta. 28+13.82 =
-Y1- Sta. 24+65.06
36' RIGHT
END CONSTRUCTION

-Y1- +49.00
EXIST R/W

-Y1- +00.00
401.00' RT

-Y1- +27.00
450' RT

5 LADONNA BOOTH DB 1400 PG 144

-EBLX-

PI Sta 24+02.57	PI Sta 26+77.27
△ = 15° 06' 16.3" (RT)	△ = 15° 06' 16.3" (LT)
D = 5° 29' 55.1"	D = 5° 29' 55.1"
L = 274.70'	L = 274.70'
T = 138.15'	T = 138.15'
R = 1,042.00'	R = 1,042.00'
S.E = N/A	S.E = N/A

NAD 83/95

1 HAL STEPHENS DB 16V PG 47

25+00

END RESUR.
-Y1- STA.24+65.06
LT. AND RT.

END SPECIAL GRADING
-Y1- STA.20+24.21

-Y1- POT Sta. 26+00.00

MATCHLINE -Y1- 20+00.00, SEE SHEET 5

4" P.S 24" 60' 20'MIN

-Y1-

US HIGHWAY 74 WEST
LUMBERTON

-Y1- STA.25+00.00
END CONST.

34 x 15 x 3
5 ft. weir
ID 8.1B

S 87°33'24" E
(868.70')

NOTE: SEE CROSS-SECTION AND ROADWAY STANDARD DRAWINGS STD. NO. 862.01, SHEET 1 FOR SPECIAL MEDIAN GRADING

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