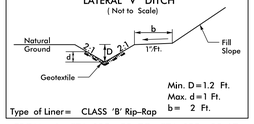
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
R-2603	EC-32/CONST.JI
R/W SHEET NOS.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DETAIL LR1
LATERAL 'V' DITCH
(Not to Scale)

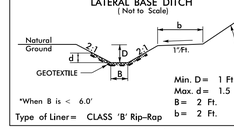


Min. D=1.2 Ft.
Max. d=1 Ft.
b= 2 Ft.

Type of Liner= CLASS 'B' Rip-Rap

FROM –L– STA. 105+50 TO STA. 108+00 LT

DETAIL L4
LATERAL BASE DDITCH
(Not to Scale)



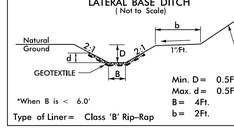
Min. D= 1 Ft.
Max. d= 1.5 Ft.
B= 2 Ft.
b= 2 Ft.

*When B is < 6.0'

Type of Liner= CLASS 'B' Rip-Rap

FROM –L– STA. 107+00 TO STA. 108+50 RT
FROM –L– STA. 111+00 TO STA. 111+50 RT
FROM –L– STA. 111+86 TO STA. 113+26 RT
FROM –L– STA. 113+77 TO STA. 117+00 RT

DETAIL LB4
LATERAL BASE DDITCH
(Not to Scale)



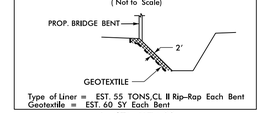
Min. D= 0.5Ft.
Max. d= 0.5Ft.
B= 4Ft.
b= 2Ft.

*When B is < 6.0'

Type of Liner= Class 'B' Rip-Rap

FROM –L– STA. 108+50 TO STA. 109+50 RT

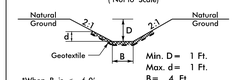
DETAIL EB1
RIP RAP AT BRIDGE BENT AND STREAM EMBANKMENT
(Not to Scale)



Type of Liner = EST. 55 TONS,CL II Rip-Rap Each Bent
Geotextile = EST. 60 SY Each Bent

–L– STA. 117+03
–L– STA. 117+65

DETAIL TB4
STANDARD BASE DITCH
(Not to Scale)



Min. D= 1 Ft.
Max. d= 1 Ft.
B= 4 Ft.

*When B is < 6.0'

Type of Liner= CLASS 'B' Rip-Rap

FROM –L– STA. 110+79 (114' RT) TO 111+50 (65' RT)

NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

35 x 17 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
9 ft. weir
ID 11.2F

NAD 83 95

MATCH LINE –L– STA.105+00 SEE SHEET NO.10

MATCH LINE –L– STA.119+00 SEE SHEET NO.12

–Y12– POT Sta. 10+00.00=
–L– POC Sta. 105+99.33

–L– PRC Sta. 108+37.10

–L– PT Sta. 114+67.98

CLASS 'B' RIP RAP
EST. 5 TONS
14 SY GEOTEXTILE

LATERAL 'V' DITCH
SEE DETAIL LR1
EST 117 CY DDE
EST. 63 TONS CL B
250 SY GEOTEXTILE

BERM DITCH
SEE RDWY STD. 240.01
–L– STA 110+00 to 111+50

HUTCHINSONS LLC

NC 268 ELKIN RD 22' BST

–L–

N 70° 06' 26.8" E

BEGIN SBG
–L– STA 113+80 LT

ATTENUATOR

BEGIN SBG
–L– STA 113+96

GRADE CUT TO DRAIN

CAT–I

PDE

PSH SEE DETAIL P1
Q10 = 1 cfs

BRENCO - DB 645 PG 681
200' POWER EASEMENT

CLASS 'II' RIP RAP
SEE DETAIL EB1
(STRUCTURE PAY ITEM)

RETAIN

TYPE–III

TYPE B

REMOVE

8" PLASTIC

6" PVC

6" AC

8" STEEL

MASTER METER

LATERAL BASE DITCH
SEE DETAIL L4
EST 62 CY DDE
EST. 53 TONS CLB
153 SY GEOTEXTILE

LATERAL BASE DITCH
SEE DETAIL LB4
EST 22 CY DDE
EST. 34 TONS CL B
100 SY GEOTEXTILE

–DRIVE3– POT Sta. 10+00.00=
–Y12– POT Sta. 11+25.00

CLASS 'B' RIP RAP
EST. 8 TONS
21 SY GEOTEXTILE

–DRIVE3– PC Sta. 10+27.86

S 52°59'33.8" W

BERM DITCH
SEE RDWY STD. 240.01
–L– STA 103+72 to 105+40

–Y12– PC Sta. 13+02.15

S 37°00'262" E

–DRIVE3–

REMOVE

TAM HUTCHINSON
MARY HUTCHINSON

S 28°43'8" W
226.23'

HILL RD SR 2334

GRADE CUT TO DRAIN

RETAIN

ISFBUS

GRADE CUT TO DRAIN

–Y12– PT Sta. 16+25.02

–Y12– PC Sta. 17+22.32

S 57°33'41.5" E

END CONSTRUCTION
–Y12– PT 16+25.02

LATERAL BASE DITCH
SEE DETAIL L4
EST 85 CY DDE
EST. 23 TONS CL B
67 SY GEOTEXTILE

TAIL BASE DITCH
SEE DETAIL TB4
EST 45 CY DDE
EST. 45 TONS CL B
133 SY GEOTEXTILE

CLASS 'B' RIP RAP
EST. 8 TONS
21 SY GEOTEXTILE

LATERAL BASE DITCH
SEE DETAIL L4
EST 73 CY DDE
EST. 64 TONS CL B
187 SY GEOTEXTILE

DO NOT DISTURB STRUCTURE

120 x 23 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
15 ft. weir
ID 11.3F

LATERAL BASE DITCH
SEE DETAIL L4
EST 1171 CY DDE
EST. 149 TONS CL B
431 SY GEOTEXTILE

BEGIN APPROACH SLAB
–L– STA 116+35.83

CLASS 'B' RIP RAP
EST. 2 TONS
7 SY GEOTEXTILE

BEGIN BRIDGE
–L– STA 116+60.00

FRANK VERNON JOHNSON

Modified Silt Basin
Type 'B'
100 x 33 x 3
25 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 11.1F

CLASS 'II' RIP RAP
(STRUCTURE PAY ITEM)

100 x 33 x 3
2 inch Skimmer
with 1.875 inch
Orifice Diameter
25 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 11.1F

PSH SEE DETAIL P1
GRADE TO EL 993
Q10 = 1 cfs

END APPROACH SLAB
–L– STA 118+34.17

END BRIDGE
–L– STA 118+10.00

S 45°46'40" E
74.15'

S 26°43'23" E
50.12'

NORTH WILKESBORO CITY LIMITS

S 77°18'53" E
115.43'

NORTH WILKESBORO CITY LIMITS

N 68°55'44" E
363.18'

NORTH WILKESBORO CITY LIMITS

S 20°30'30" E
305.57'

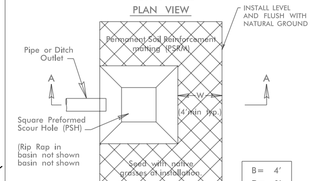
N 21°38'20" W
250.96'

N 19°38'24" W
555.6'

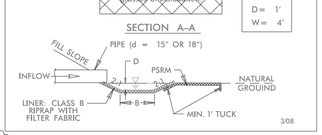
MULBERRY CREEK

DETAIL P1
PREFORMED SCOUR HOLE
*NOT TO SCALE

PLAN VIEW



SECTION A–A



–L– STA 116+38 (78' LT)
–L– STA 118+39 (65' RT)

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE–C AT LOCATIONS WHERE THEY CANNOT BE INSTALLED CORRECTLY OR IMPOUND WATER ON ACTIVE TRAVEL LANES

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01 PENZ 2.112