CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

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

METRIC
5 0 10

PROJECT REFERENCE NO.	SHEET NO.
R-977A	EC-19/CONST.17
HIGHWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CONST.REV.
R/W REV.

-L-
PIs Sta 52+13.333
Θs = 1° 28' 31.5"
Ls = 60.000
LT = 40.001
ST = 20.001

-L-
PI Sta 55+27.374
Δ = 28° 19' 50.9" (LT)
L = 576.053
T = 294.842
R = 1,165.000

-L-
PIs Sta 58+29.386
Θs = 1° 28' 31.5"
Ls = 60.000
LT = 40.001
ST = 20.001

-LREV-
PIs Sta 52+50.153
Θs = 2° 12' 47.3"
Ls = 90.000
LT = 60.005
ST = 30.004

-LREV-
PI Sta 55+58.285
Δ = 26° 51' 19.4" (LT)
L = 546.053
T = 278.137
R = 1,165.000
Se = 0.05
DS = 105 km/h

-LREV-
PIs Sta 58+56.205
Θs = 2° 12' 47.3"
Ls = 90.000
LT = 60.005
ST = 30.004

FUTURE FALSE CUT
Natural Ground
Filter Fabric
Max. w = 2.0 m
Min. d = 0.3 m
Type of Liner = CLASS 'B' RIP RAP
FROM -LREV- STA. 61+09 TO STA. 61+30 LT. (FUTURE)

SPECIAL BERM DITCH
Natural Ground
Filter Fabric
Cut Slope
Min. D = 0.3 m
Min. d = 0.3 m
Type of Liner = CLASS 'B' RIP RAP
FROM -LREV- STA. 58+46 TO STA. 58+52 LT.
(EST. RIP RAP = 5 m.tons, FIL. FAB. = 10 sm)

SPECIAL BERM DITCH
Natural Ground
Filter Fabric
Cut Slope
Min. D = 0.3 m
Min. d = 0.3 m
Type of Liner = CLASS 'I' RIP RAP
FROM -LREV- STA. 60+60 TO STA. 60+93 LT. (FUTURE)

FALSE CUT
Natural Ground
Filter Fabric
Max. w = 2.0 m
Min. d = 0.3 m
Type of Liner = CLASS 'B' RIP RAP
FROM -LREV- STA. 61+20 TO STA. 61+50 LT.
(EST. RIP RAP = 28 m.tons, FIL. FAB. = 56 sm)

CHARLES H. WEST
WILLIAM J. WELLS
DB 438 PG 90
DB 320 PG 76
DB 559 PG 43

+16.201 -LREV-
50.000 (164.00 ft)

+08.344 -LREV-
55.000 (180.40 ft)

+16.201 -LREV-
45.000 (147.60 ft)

+40.000 -LREV-
60.000 (196.80 ft)

+08.344 -LREV-
40.000 (131.20 ft)

-LREV- ST Sta.59+18.201
-LREV- TS Sta.58+69.385
-LREV- TS Sta.62+08.344
-LREV- TS Sta.61+91.681

MATCH LINE -LREV- STA 58+45.000
SEE SHEET 16
MATCH LINE -LREV- STA 62+25.000
SEE SHEET 18

CHORD
WOODS
OBLITERATE
(FUTURE) SLOPE STAKES LINE
SLOPE STAKES LINE
SPECIAL BERM DITCH W/ CLASS 'B' RIP RAP W/ FILTER FABRIC
Std. BERM DRAINAGE OUTLET
Std. BERM DITCH
(FUTURE) 2-GI
(FUTURE) GUARDRAIL
(FUTURE) 1-MT END SHLD. BERM GUTTER
FALSE SUMP
FUTURE LANES
-L- -LREV- N 82° 34' 12.0" E
(FUTURE) SPECIAL BERM DITCH W/ CL.'I' RIP RAP W/ FILTER FABRIC
(FUTURE) FALSE CUT W/ CL.'B' RIP RAP W/ FILTER FABRIC
(FUTURE) 450mm CSP TYPE 'B' COATING
(FUTURE) Std. BERM DRAINAGE OUTLET
(FUTURE) FALSE SUMP
FALSE CUT W/ CL.'B' RIP RAP W/ FILTER FABRIC
(EX. DEPTH 1.49)
(EX. DEPTH 1.26)
Std. SPRING BOX W/ PERF. 450mm CSP STUB
FALSE SUMP
2-GI TYPE 'E' (EX. DEPTH 1.20)
450mm CSP W/ ELBOW TYPE 'B' COATING
TOE OF FILL PROTECTION
CLASS 'I' RIP RAP (2 M.TONS) W/ FILTER FABRIC (4 SM)
SPECIAL DITCH GRADE
CHORD
GRAU-350
18.0
750mm RCP CLASS IV W/ HEADWALL
CLASS 'I' RIP RAP (1 M.TON) W/ FILTER FABRIC (2 SM)
TOE OF FILL PROTECTION
Live Stream

8 x 4 x 1
1.5 weir

12 x 6 x 1
1.5 weir

5 x 2 x 1
1.5 weir

13 x 7 x 1
2.0 weir

5 x 3 x 1
1.5 weir

9 x 4 x 1
1.5 weir

8 x 4 x 1
1.5 weir

-LREV-
PIs Sta 62+68.352
Θs = 2° 56' 47.9"
Ls = 90.000
LT = 60.008
ST = 30.008

-LREV-
PI Sta 66+99.236
Δ = 49° 13' 51.2" (RT)
L = 751.836
T = 400.892
R = 875.000
Se = 0.06
DS = 105 km/h

-LREV-
PIs Sta 62+68.352
Θs = 2° 56' 47.9"
Ls = 90.000
LT = 60.008
ST = 30.008

-L-
PIs Sta 62+31.683
Θs = 1° 57' 51.9"
Ls = 60.000
LT = 40.002
ST = 20.002

-L-
PI Sta 66+70.867
Δ = 51° 11' 43.1" (RT)
L = 781.836
T = 419.186
R = 875.000

-L-
PIs Sta 62+31.683
Θs = 1° 57' 51.9"
Ls = 60.000
LT = 40.002
ST = 20.002

TOE OF FILL PROTECTION
Fill Slope
Natural Ground
Filter Fabric
Max. w = 2.0 m
Min. d = 0.3 m
Type of Liner = CLASS 'I' RIP RAP
FROM -LREV- STA. 61+39 TO STA. 61+63 RT.
(EST. RIP RAP = 32 m.tons, FIL. FAB. = 37 sm)

CHARLES H. WEST
WILLIAM J. WELLS
DB 438 PG 90
DB 320 PG 76
DB 559 PG 43

SEE SHEET 43 FOR -LREV- PROFILE
SEE PROFILES FOR DITCH GRADES