PROJECT REFERENCE NO.	SHEET NO.
U-5824	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Prepared in the Office of: SUMMIT DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE No: P-0339
320 Executive Ct
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

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

NOTE: UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/ JURISDICTIONAL AREAS, AND AS DIRECTED

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NAD 83/2011

PI Sta 16+75.18
△ = 49° 58' 56.1" (LT)
D = 6° 01' 52.1"
L = 828.74'
T = 442.81'
R = 950.00'
SE = 4%
RO = 192'

CONTRACTOR WILL NOT BE PERMITTED TO STORE ANY EQUIPMENT ON NS PROPERTY WITHOUT PERMISSION FROM THE NS RAILROAD ENGINEER IN ACCORDANCE WITH SECTION E.5.K.1 OF THE NS PUBLIC PROJECTS MANUAL.

BEGIN TIP PROJECT U-5824
-L- Sta.10+52.50

-L- POT Sta.10+00.00

NORFOLK AND WESTERN RAILROAD

90 x 45 x 3
2 inch Skimmer
with 1.750 inch
Orifice Diameter
29 ft. weir
ID 4.1

80 x 40 x 3
2 inch Skimmer
with 1.625 inch
Orifice Diameter
24 ft. weir
ID 4.2

35 x 15 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
4 ft. weir
ID 4.3

BEGIN CONSTRUCTION
-Y1- Sta.10+75.00

DETAIL 4–7
PIPE INLET CHANNEL STABILIZATION
(Not to Scale)
Natural Ground — Natural Bed Elevation — Natural Ground — 1' — Geotextile — Channel Bed (Variable)
Length = 8 Ft.
Type of Liner = CL B Rip-Rap – Keyed-In
FROM STA. 19+11 TO 19+29 –L– LT

PIPE INLET CHANNEL STABILIZATION
SEE DETAIL 4–7
3 TONS CL B RIP RAP
6 SY GEOTEXTILE

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 4–4
3 TONS CL B RIP RAP
6 SY GEOTEXTILE

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 4–3
8 TONS CL B RIP RAP
18 SY GEOTEXTILE

SPECIAL LATERAL 'V' DITCH
SEE DETAIL 4–5
47 TONS CL B RIP RAP
104 SY GEOTEXTILE

-L- PT Sta. 20+61.11

-Y1- POT Sta. 12+49.30
-L- POC Sta.13+95.36
-Y2- POT Sta. 10+00.00
-L- POC Sta.16+71.74

-L- PC Sta. 12+32.37

BEGIN -L- STA 24+00.00 (SEE SHEET 5) MATCHLINE -L-

2 JOHN T VLAHOS DB 2833 PG 1741
3 PELAGIC PARTNERS, LLC. DB 3312 PG 1691
4 A D D VENTURES,LLC. DB 3272 PG 4145
5 DUKE POWER CO DB 875 PG 125
5 DUKE POWER CO DB 889 PG 68
5A DUKE POWER CO DB 1167 PG 564
6 WALKERTOWN LUBE-N-WASH, INC DB 2111 PG 3660
7 PRITCHARD, RALPH L. DB 1664 PG 2256
8 DAVID H BATTEN DB 2813 PG 3290
9 WALKERTOWN PENT HOLINESS CHURCH NDF
10 TNP HOLDINGS LLC DB 2995 PG 4135
10 TNP HOLDINGS LLC DB 2996 PG 4135
10A TNP HOLDINGS LLC DB 2995 PG 4135
11 WILLIAM E RUSSELL DB 1994 PG 3252
12 JOHN CHONG PEEL DB 1914 PG 3810
ELIOSE J HALL DB 1884 PG 1704

TO OLD WALKERTOWN & SALEM RD
OLD HOLLOW RD (SR-66)
WALKERTOWN PLAZA
S 32° 55' 14.8" W
S 57° 22' 22.8" W
N 13°18'00" E 19.22'

RETAIN SYSTEM
STACKED JERSEY WALL VAR. HEIGHT
VAR. HEIGHT BLK WALL
CONC. APRON UNDER CANOPY
TIE TO EXISTING DITCH
CL I RIP-RAP 33 TON GEOTEXTILE 62 SY
SPECIAL LATERAL 'V' DITCH SEE DETAIL 4–1
TOE PROTECTION SEE DETAIL 4–6 27 TONS CL B RIP-RAP 60 SY GEOTEXTILE
CL B RIP-RAP 2 TON GEOTEXTILE 7 SY
SPECIAL CUT DITCH SEE DETAIL 4–2
TIE TO EXISTING DITCH

END CONSTRUCTION
-Y2- Sta.11+75.00

DETAIL 4–1
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground — 2:1 — D — 3:1 or Flatter — Fill Slope
Min. D = 1.0 Ft.
FROM STA. 17+50 TO STA. 18+50 –L– RT

DETAIL 4–2
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground — 2:1 — D — 3:1 or Flatter — Front Ditch Slope
Min. D = 1.0 Ft.
FROM STA. 11+25 TO STA. 11+75 –Y2– LT

DETAIL 4–3
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground — 3:1 — d — D — 3:1 or Flatter — Fill Slope — Geotextile
Min. D = 0.5 Ft.
Max. d = 0.5 Ft.
Type of Liner = CL B Rip-Rap
FROM STA. 18+50 TO STA. 19+00 –L– LT

DETAIL 4–4
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground — 2:1 — d — D — 3:1 or Flatter — Fill Slope — Geotextile
Min. D = 1.0 Ft.
Max. d = 1.0 Ft.
Type of Liner = CL B Rip-Rap
FROM STA. 19+00 TO STA. 19+15 –L– LT

DETAIL 4–5
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground — 2:1 — d — D — 3:1 or Flatter — Fill Slope — Geotextile
Min. D = 1.6 Ft.
Max. d = 1.6 Ft.
Type of Liner = CL B Rip-Rap
FROM STA. 19+53.19 TO STA. 21+00 –L– LT

DETAIL 4–6
TOE PROTECTION
(Not to Scale)
NATURAL GROUND — b — d — 4:1 OR FLATTER — FILL SLOPE
d = 1 Ft.
b = 3 Ft.
Type of Liner = CL B RIP RAP
FROM STA. 10+72 TO STA. 11+50 –Y2– RT

REVISIONS

8/17/99

08-AUG-2023 13:29
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Hewang