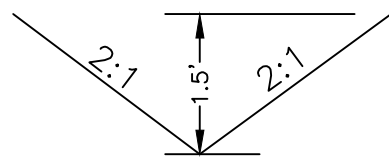


J:\2023\04\24\2006\06 GAD - BRAMMER LN FALL BRIDGE\DWG\CIVIL BASE.dwg PLOTTED: 12/19/2023 10:52:23 AM

CONVEYANCE CHANNEL CROSS SECTIONS

N.T.S.

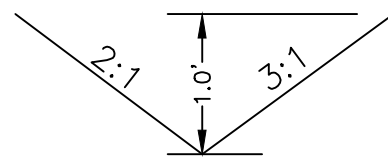
D=1
DRAINAGE AREA=1.31 AC.



MIN. CONSTRUCTED DEPTH = 1.5 FT
LINING=EC-2 (TREATMENT 1)

Q₂ = 2.90 cfs
V₂ = 3.11 fps
Q₁₀ = 3.87 cfs
D₁₀ = 0.76 ft

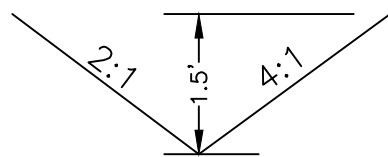
D=2
DRAINAGE AREA=0.56 AC.



MIN. CONSTRUCTED DEPTH = 1.0 FT
LINING=EC-2 (TREATMENT 1)

Q₂ = 0.69 cfs
V₂ = 3.45 fps
Q₁₀ = 0.92 cfs
D₁₀ = 0.32 ft

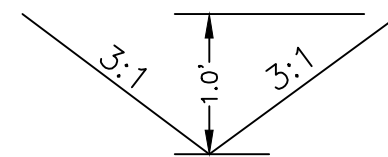
D=3
DRAINAGE AREA=0.09 AC.



MIN. CONSTRUCTED DEPTH = 1.5 FT
LINING=EC-2 (TREATMENT 1)

Q₂ = 0.33 cfs
V₂ = 3.30 fps
Q₁₀ = 0.44 cfs
D₁₀ = 0.20 ft

D=4
DRAINAGE AREA=6.18 AC.



MIN. CONSTRUCTED DEPTH = 1.0 FT
LINING=EC-2 (TREATMENT 1)

Q₂ = 1.34* cfs
V₂ = 2.54* fps
Q₁₀ = 4.35* cfs
D₁₀ = 0.65 ft

*NOTE:

THE FLOW RATES FOR CONVEYANCE CHANNEL SECTION D-4 HAVE BEEN TAKEN FROM HYDROCAD CALCULATIONS AT POD #1.

STRUCTURE SCHEDULE

- 32.39 LF OF 18" C-361 CLASS III RCP @ 1.39% W/ VDOT EW-1 ENDWALL
INV. UPPER=2160.45 INV. LOWER=2160.00
- 48" DIA. RISER STRUCTURE
OUTLET CONTROL FLOW STRUCTURE
SEE DETAIL SHEET C3
TOP=2164.00
18" INV. OUT=2160.45
- 41.43 LF OF 15" HDPE @ 1.00%
INV. UPPER=2166.69 INV. LOWER=2166.28

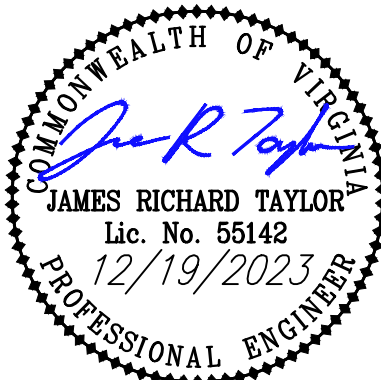


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GAD - BRAMMER LN MASS GRADING PLAN

GRADING PLAN & STRUCTURE SCHEDULE

SHAVESVILLE MAGISTERIAL DISTRICT
260 BRAMMER LN, CHRISTIANSBURG, VIRGINIA

DRAWN BY: WRS
DESIGNED BY: WRS
CHECKED BY: JRT
DATE: 07/28/2023
SCALE: AS NOTED
REVISIONS:
11/15/2023
11/30/2023
12/19/2023

PROJECT NO. 24230065.00

C4

