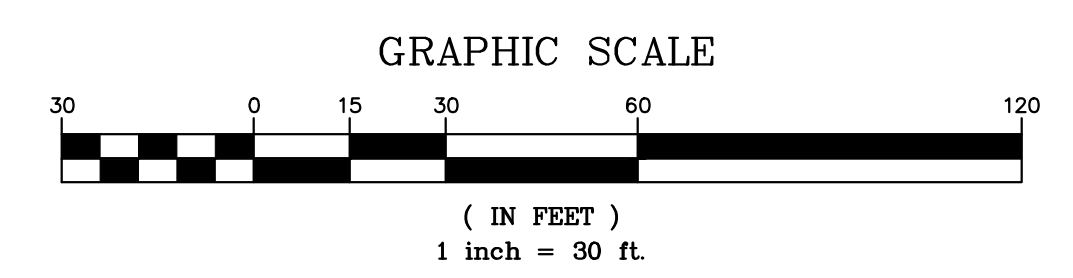
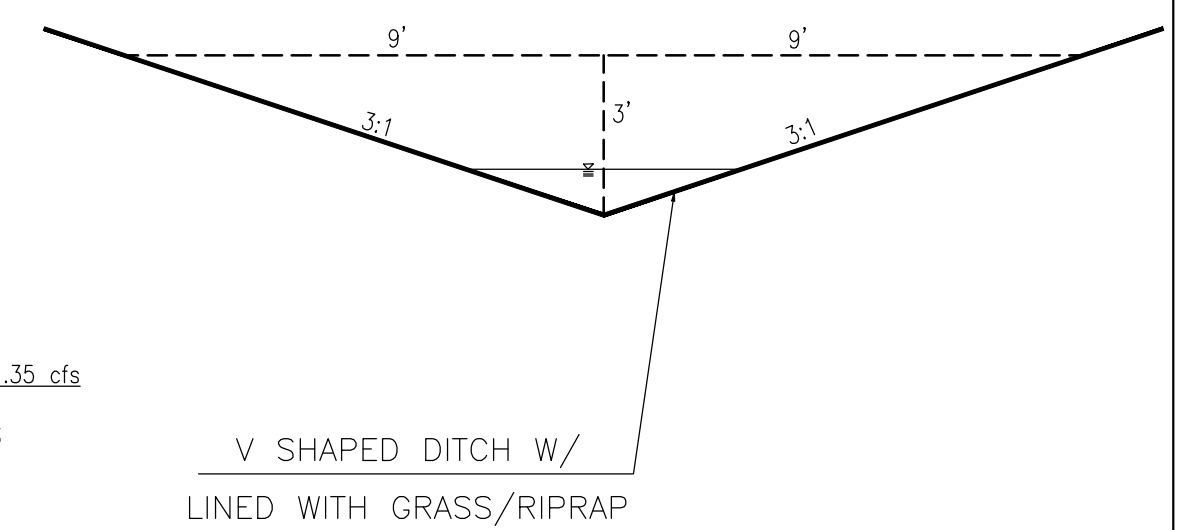


Proposed Grass Ditch Flow Calculations/Section:

USE DITCH SIZE AS FOLLOWS: 3' DEPTH
 MAXIMUM FLOW FOR THIS DITCH IS AS FOLLOWS:
 $FLOW\ AREA = 2((.5)(3)(9)) = 27\ SF$
 $n = 0.025\ FOR\ GRASS\ DITCH$
 $HYD.\ RADIUS = 27\ SF / 19' = 1.5$
 $MAX.\ Q = 1.49 / 0.025 (27) (1.5)^{.58} (.055)^{.58} = 481\ cfs$
 $ACTUAL\ Q\ IN\ DITCH\ AFTER\ CONSTRUCTION = CIA = (.5)(8.4)(21.75) = 91.35\ cfs$
 $ACTUAL\ V\ IN\ DITCH\ AFTER\ CONSTRUCTION = Q/A = 91.35 / 12 = 7.6\ FPS$



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REGISTERED PROFESSIONAL ENGINEER
 DONALD B. CLERICO, JR.
 GSWCC LEVEL II
 CERTIFICATION # 804

REVISIONS			
NO.	DATE	DESCRIPTION	COUNTY COMMENTS
1	5-19-22		
2	6-15-22		
3	8-29-22		

CONSTRUCTION PLANS
 FOR
**HOLLY SPRINGS
 PUBLIC WORKS BUILDING**
 CHEROKEE COUNTY, GEORGIA

SHEET TITLE
**GRADING
 PLAN**

SHEET NUMBER
C-3.0

SCALE SEE PLAN

DATE 5-2-22

PROJECT NO.