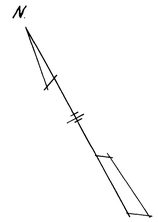
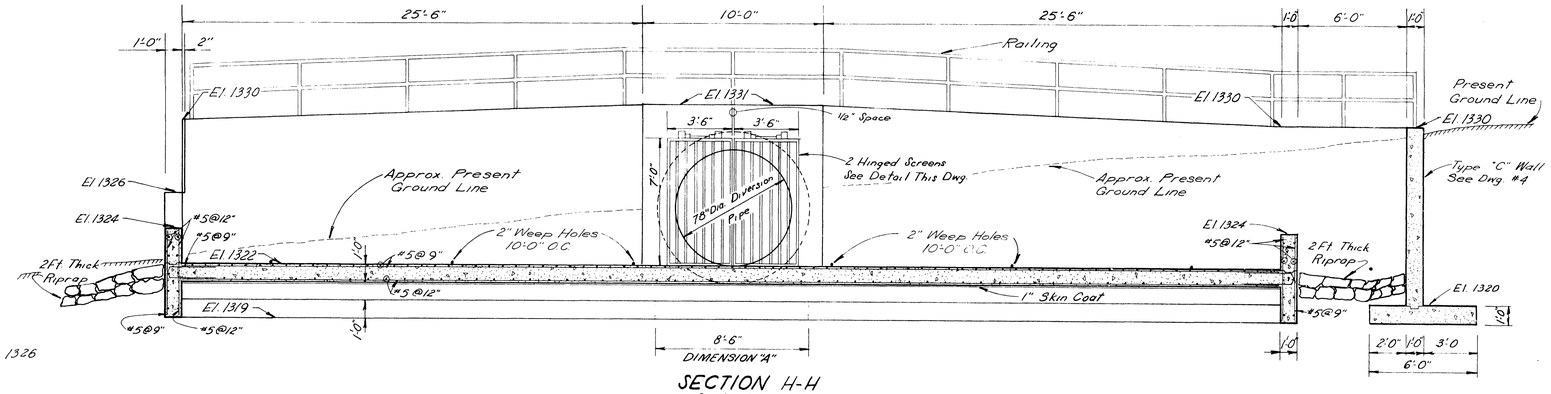
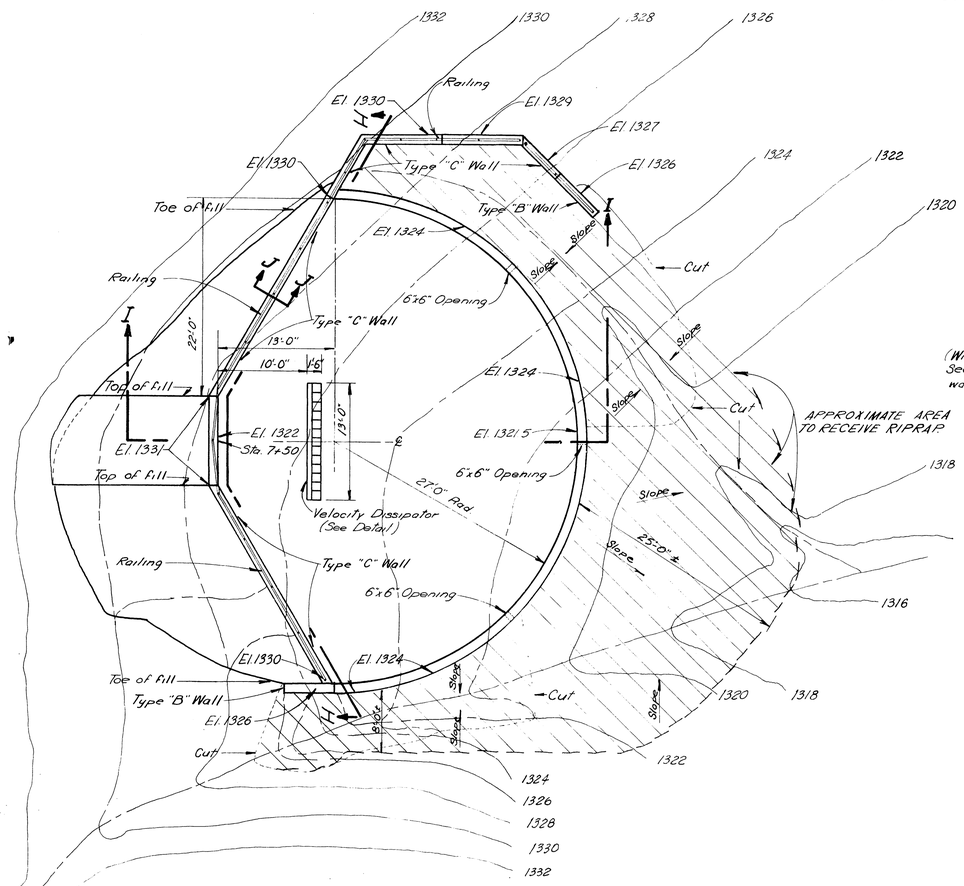
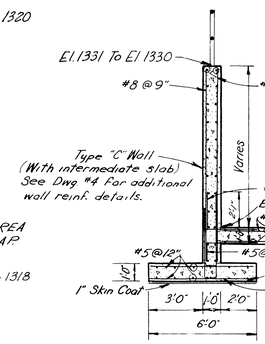




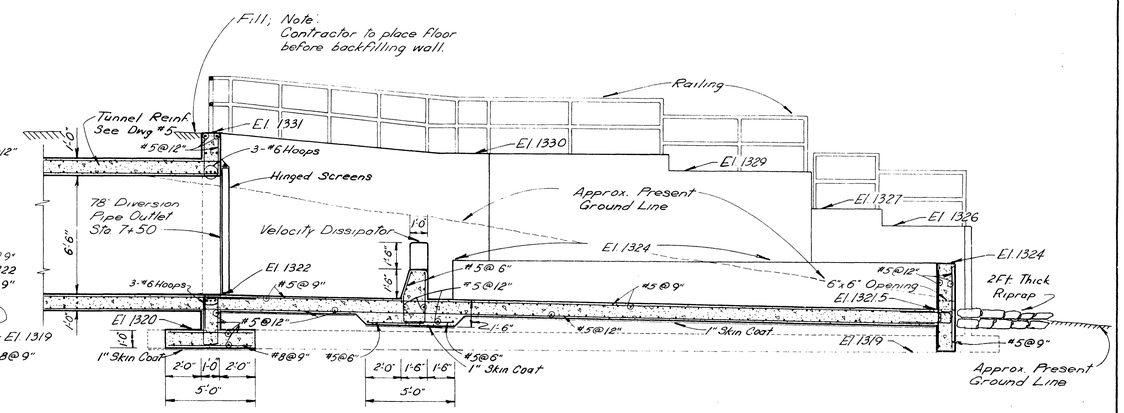
SECTION H-H
Scale: 1/4"=1'-0"



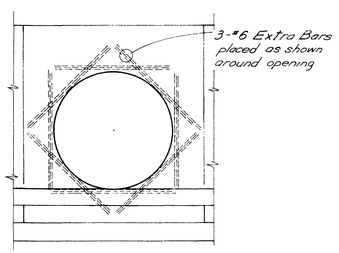
PLAN OF OUTLET STRUCTURE
Scale: 1/8"=1'-0"



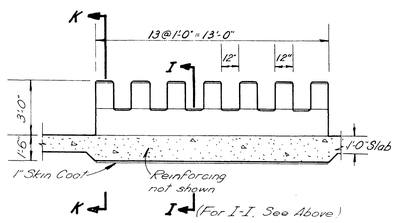
SECTION J-J
Scale: 1/4"=1'-0"



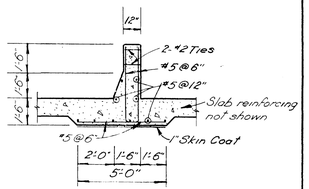
SECTION I-I
Scale: 1/4"=1'-0"



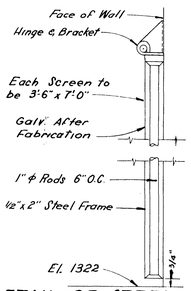
EXTRA REINFORCING AT OPENING
No Scale



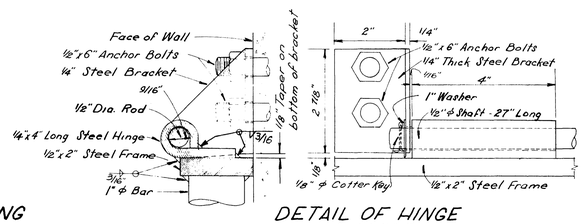
VELOCITY DISSIPATOR DETAIL
Scale: 1/4"=1'-0"



SECTION K-K
Scale: 1/4"=1'-0"



DETAIL OF STEEL GRATING
Scale: 1/2"=1'-0"



DETAIL OF HINGE
Scale: 1/2"=1"

LOUIS R. HOWSON REGISTERED No. 781 STATE OF VIRGINIA PROFESSIONAL ENGINEER

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CATAWBA CREEK DIVERSION PROJECT

OUTLET STRUCTURE PLAN & DETAILS

CITY OF ROANOKE WATER DEPT.
ROANOKE, VIRGINIA

ALVORD BURDICK & HOWSON
ENGINEERS CHICAGO
1970