APPENDIX M
JEROME BUDDIE FORD NATURE CENTER OUTFALL INTO HOLMES RUN
CONCEPT DESIGN
PROJECT DESCRIPTION

The proposed project includes the removal of an existing 18-inch reinforced concrete pipe (RCP) outfall and associated concrete apron and the construction of a proposed drop structure and outfall. Approximately 33 linear feet of channel improvements are proposed downstream of the new outfall.

EXISTING CONDITIONS

Flowing perpendicular to the RCP outfall, and no existing outfall appears to exist. Old sections of 18" RCP appear to have broken off and fallen into the channel, and the bank height greatly reduces. Construction access to the site will most likely occur from the Jerome Buddie Ford Nature Center parking lot and the Holmes Run Trail. Based on the preliminary concept, the approximate limit of disturbance (LOD) is 0.5 acres. It should be noted this is approximate and will require revision once a survey is completed.
EXISTING WOOD STAIRS / HIKING TRAIL (TO REMAIN)

EXISTING CONDITIONS - PHOTO LOCATION MAP
EXISTING CONDITIONS - PLAN AND PROFILE

Note: Existing stream centerline and topographic data is based on the City of Alexandria GIS data and field observations.

Existing 18" RCP existing end section and apron/cantilevered.

Existing grade.

1 inch = 10 feet

NOT FOR CONSTRUCTION
NOT FOR CONSTRUCTION

PLUNGE POOL (FIRST POOL BELOW PIPE OUTFALL)

CONSTRUCTED PLUNGE POOL (SHOWN FOR INFORMATION ONLY)

PLAN VIEW

N.T.S.

PROFILE VIEW

NOTE:
DEPENDING ON THE AVAILABILITY OF WOOD MATERIAL AND DROUGHT PRONE NATURE OF THE OUTFALL, ROCK SILLS MAY BE REQUIRED FOR SUBSTITUTION OF THE LOG ROLLERS.