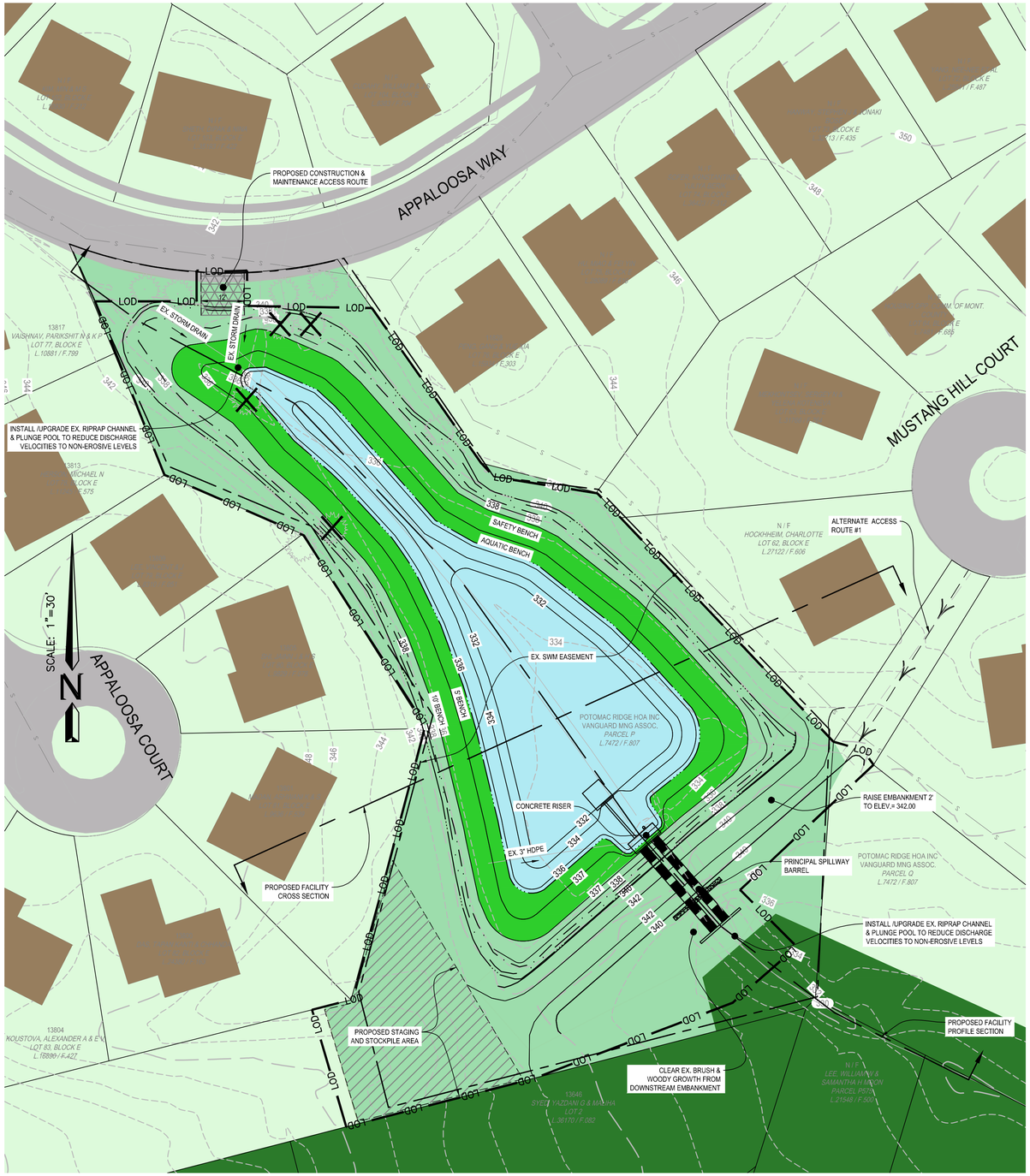
POTOMAC RIDGE STORMWATER MANAGEMENT PROJECT

MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION SANDY BRANCH (TRIBUTARY TO WATTS BRANCH IN THE POTOMAC RIVER WATERSHED)



ASSET #10891 PROPOSED RETROFIT CONCEPT PLAN VIEW

FIGURE 1. REPLACE CONCRETE CHANNEL OUTFALLS WITH RIPRAP PROTECTION TO REDUCE FLOW VELOCITY.

FIGURE 2. REMOVE CONCRETE CHANNELS AND PROVIDE WET POOL FOR STORMWATER QUALITY TREATMENT.

FIGURE 3. REPLACE EXISTING METAL OUTLET STRUCTURES AND PIPES WITH CONCRETE TO COMPLY WITH CURRENT STORMWATER MANAGEMENT AND SAFETY STANDARDS.

FIGURE 4. REINSTALL RIPRAP AND INSTALL SCOUR POOL TO REDUCE VELOCITY OF FLOWS LEAVING THE POND TO REDUCE DOWNSTREAM EROSION.

FIGURE 5. PROVIDE WETLAND VEGETATIVE LANDSCAPING AROUND POND TO IMPROVE WATER QUALITY AND AESTHETICS.

GRAPHIC SCALE

30 0 15 30 60

SCALE: 1" = 30'

LEGEND

- EX. FOREST
- PROPOSED PERMANENT POOL
- SHORELINE VEGETATION
- MEADOW VEGETATION
- TURFGRASS
- RIPRAP CHANNELS
- CONSTRUCTION AND MAINTENANCE ACCESS ROAD
- TEMPORARY CONSTRUCTION STAGING AND STOCKPILE AREA
- EX. CONTOUR
- PROPOSED CONTOUR
- LIMITS OF DISTURBANCE — LOD —

Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: SEB
DWN BY: GC
CKD BY: JBB
SUBMITTED BY: JBB
DATE: SEPT., 2013
TASK ORDER NO.: 12-01
CONTRACT NO.:
FILE NUMBER:
PLOT SCALE: 1"=30'
PLOT DATE: 4/5/2013
SIZE: ANSI D
FILE NAME: 01-EX-04.DWG

MR. CRAIG CARSON 240-777-7713
MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION
255 ROCKVILLE PIKE
ROCKVILLE, MD 20850

CPJ Associates

TASK ORDER 12-01
POTOMAC RIDGE SWM POND RETROFIT (ASSET #10891) - NOT FOR CONSTRUCTION
DARNESTOWN (6TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

STORMWATER MANAGEMENT POND RETROFIT PLAN VIEW

SHEET NO.
N/A
EX-04

Attached Xrefs:

Last Saved 10/7/2013 Last Plotted 10/7/2013 11:52 AM Sheet N:\43030\DWG\01-EX-04

POTOMAC RIDGE STORMWATER MANAGEMENT PROJECT

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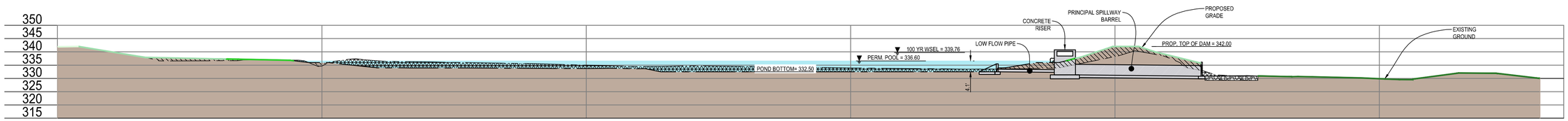
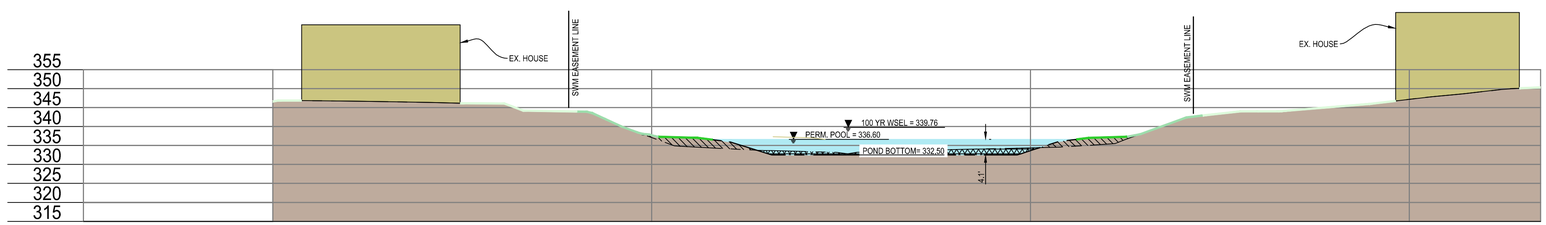


ASSET #10891 PROPOSED FACILITY PROFILE (UPSTREAM TO DOWNSTREAM)



ASSET #10891 PROPOSED FACILITY CROSS SECTION

GRAPHIC SCALE

20 0 10 20 40

SCALE: 1" = 20'

LEGEND

- NORMAL POOL - 336.60
- SHORELINE VEGETATION
- MEADOW VEGETATION
- TURFGRASS
- RIPRAP
- EX. GROUND
- PROPOSED GROUND
- EXCAVATION
- EARTH FILL

Department of Environmental Protection
Montgomery County Maryland

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: SEB
DWN BY: GC
CKD BY: JBB
SUBMITTED BY: JBB
DATE: SEPT., 2013
TASK ORDER NO.: 12-01
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(ASSET #10891) - NOT FOR CONSTRUCTION
DARNESTOWN (6TH) ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

STORMWATER MANAGEMENT POND RETROFIT PROFILES

SHEET NO.
N/A

EX-04

Attached Xrefs: