



Preliminary Acceptance Punchlist
El Paso County – Department of Public Works - Stormwater Section

Project Name:	Cloverleaf Filing 2
EDARP Filing Number(s):	SF2123, CON2216
ESQCP Number:	ESQ2133
Attendees:	DPW SW: Molly Layshock, Ben Jones DPW Development Services: Brad Walters, Spencer Pirzadeh Developer: Joe Desjardin, Connie Miller, Charlie Williams
Date of Walk-Thru:	07/13/2023
Walk-Thru Number:	1st

Internal Note: Pre-PA walk-thru completed by DPW Stormwater personnel Molly Layshock on 07/12/2023 and Glenn Reese on 7/19/2023.

Please have all items completed within six months of the date on this punchlist. If all items are not completed within six months, a new punchlist will be created. When all items are completed, please let your inspector know as soon as possible so they can come out to the project to confirm.

Findings to be addressed prior to scheduling a follow-up walk-thru:

Reference Cloverleaf Filing 2 Pond Plans and Details

- All ponds: Install proper well screen No. 93 Johnson Vee Wire Stainless steel well-screen or equivalent. Diamond plates are not equivalent replacements to those in our criteria.
- Monitor pond bottoms; must be brought up to edge of trickle channel for FA.

Pond 1 (Sheet 12 of 28)

- Regrade where ruts are present.
- Low point observed at toe of embankment at east/northeast side of pond. Regrade for positive drainage to trickle channel.
- Install “rock chute and basin” per plans (Sheet 11 of 28). Basin portion not installed.
- Repair erosion on either side of outlet structure.

Pond 2 (Sheet 16 of 28)

- Bolt missing above at trash-rack (Photo 1).
- Check dimensions of spillway and install/construct per plan or ask engineer to confirm that as-built condition is acceptable. Because plan calls for 45ft bottom width but as-built condition appears to be no more than 20ft wide.

Pond P3 (Sheet 17 of 28)

- At flared end section at Cloverleaf Rd, plans call for 5 CY type VL Soil Riprap and regular riprap is installed. Reflect this change on as-builts.
- Eastern side of spillway does not have a discernible embankment per plan. Supposed to be 4:1 slope for 1ft of elevation. Elevations of spillway crest or embankment likely not built per plan. Construct per plan.

Pond 4 (Sheet 20 of 28)

- Confirm soil riprap has been installed at emergency spillway.

- Install riprap apron at Leggins Way as per outlet structure detail on sheet 7 and 23 of 28 (Photo 2).
- Check elevations of spillway crest and pond embankment. Does not appear to be a 1ft difference from spillway crest to top of pond embankments.
- When creating and reviewing as-builts, check embankment slopes and depth of pond on southwestern side of pond. This area does not appear to be installed per plan as slopes are much flatter than 3.9:1.
- Missing Secondary Baffle Blocks on forebay. Only 2 secondary baffle blocks are installed and approved plans show 6. Submit as-builts to show that this is acceptable. See Forebay Plan View detail on Sheet 22 of 28. (Photo 3)
- Reestablish access road close to trick channel. Mud placed on top of road base material.
- Remove sediment from east side of pond bottom.
- Address erosion along bottom of retaining walls.
- Repair outfall pipe connection to inlet box at outlet structure (Sheet 23 of 28). Concrete broken around this connection point.

Pond SF-1 (Sheet 24 of 28)

- Regrade pond bottom per plan. Observed to not be flat from side to side or slope towards outlet in long direction.
- Roadside ditch just upstream of pond on north/east side of Walters Point not installed per plan. No ditch observed at all. It appears that the retaining wall was installed closer to the road than per the plan, not leaving as much room as intended for the ditch. Discuss options with engineer. Without ditch, flow isn't conveyed to the pond as intended.
- Per "Drain Basin Outlet Front Detail" on Sheet 25 of 28, the outlet grate was supposed to be installed ~9" from the base of the filter media. Instead it was installed flush with filter media. Regrade pond to meet design intent.
- Per "Sand Filter Underdrain End Cap Detail" on Sheet 25 of 28, the hole in the end cap was supposed to be installed close to the bottom. Instead it was installed turned 90 degrees from bottom (ie: on the side of the cap). Re-install per plan or address with updated as-built plans and calcs.

Inlets

- Clean out inlet painted with green (Photo 4)

Please have your engineer submit the following items (if they haven't already):

- Engineering Record Drawings (as-builts) consistent with Section 5.10.6 of the ECM.
 - Even if everything was built exactly per plan, we need an electronic PDF of the original drawings to be signed, dated, and stamped with "As-Built" on each sheet.
 - Differences from design to as-built conditions to be shown in red text with red clouds/bubbles.
- Volume Certification Letter(s) for pond(s), see ECM Chap 5.10.6.B for details on what type of statement should be included in the letter.
 - Letter to be stamped by Engineer.
 - State in the letter that the site and adjacent properties (as affected by work performed under the County permit) are stable with respect to settlement and subsidence, sloughing of cut and fill slopes, revegetation or other ground cover, and that the improvements (public improvements, site grading) meet or exceed the minimum design requirements.
- Re-submit UD-Detention spreadsheet per changes from the original design to the as-built condition. Can be included with Cert Letter.
 - If significant changes, would need to also submit an updated SDI Form.

Photos:



Photo 1: Pond P2 missing bolt above 42" RCP above trash-rack.



Photo 2: Install riprap apron at Leggins Way outfall of pond P4.



Photo 3: Pond 4 Forebay is missing 4 secondary baffle blocks. Submit as-builts to show that this is acceptable.



Photo 4: Remove forms and clean out above inlet painted with green strips.