# Final Acceptance (FA) – Punchlist from EPC Stormwater

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| Project Name: | Winding Walk Filing 1 |
| PCD Filing Number: | SF182 |
| ESQ #: | ESQ187 |
| EPC Stormwater Personnel: | Christina Prete, Dylan Finley and Joshua Augustenborg |
| Date of Walk-Thru: | 10/10/2022 |
| PA Walk-Thru #: | 12/02/2019 (PCD Only) |

Findings to be addressed prior to scheduling a follow-up FA inspection:

**Winding Walk Filing 1 Site Wide:**

- All temporary BMPs must be removed now that 70% vegetation has been achieved.

**Pond H (Stapleton Drive and Eastonville Road):**

- Remove all weeds from the emergency spillway.
- Clean out sediment and debris from outlet structure and trickle channels.
- Outlet riprap protection has not been installed per plan (see Construction Drawings, Sheet 20).
- Standing water throughout bottom of pond. Pond must release or infiltrate at least 99% of the captured runoff within 120 hours (5 days) of a storm (0.06-inches of precipitation on 10/6/2022, wunderground.com). The initial FA was completed 4 days after the last rain event in the area. Stormwater Personnel completed an additional visual inspection 7 days after the last rain event and noted standing water in Pond H remained (10/13/2022).
- Remove weeds from pond embankments and pond bottom.
- Mow all overgrown vegetation and seed and mulch all bare areas within the pond embankments and pond bottom.
- Raise pond bottom to top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.
- Standing water at forebay must be addressed to promote positive drainage.
- Repair trickle channel undercutting and subsequent damage at Station 10+25 (see Construction Drawings Sheet 20). Engineer should consider the need for a cutoff wall.
- Standing water between spillway and Stapleton Drive crossing culverts must be addressed to promote positive drainage.
- Riprap check structures (~30'L) within Stapleton Drive drainage ditch are not shown on plans. Please include in as-built drawings and include a justification. Standing water between the check structures must be addressed to promote positive drainage.

**Pond E (Eastonville Road and Londonderry Drive):**

- Clean out sediment and debris from outlet structure and trickle channels.
- North outlet structure weir opening is not built to design (GEC, Sheet 19, Detail 2.1). Include modification on the as-built drawings and Pond Certification Letter with revised MHFD Detention Spreadsheet (v4.06).

- Water Quality Pipe North: The diameter of the orifice standpipe is 12-inch, the plans call for a 15-inch standpipe (GEC, Sheet 19, Detail 2.4). The smaller diameter standpipe may remain as long as the revised MHFD Detention Spreadsheet (v4.06) indicates all drain times are met and all flow rates do not exceed pre-development conditions.
- Water Quality Pipe South: The diameter of the orifice standpipe is 8-inch, the plans call for a 10-inch standpipe (GEC Sheet 19, Detail 3.4). The smaller diameter standpipe may remain as long as the revised MHFD Detention Spreadsheet (v4.06) indicates all drain times are met and all flow rates do not exceed pre-development conditions.
- Remove weeds from pond embankments and pond bottom.
- Mow all overgrown vegetation and seed and mulch all bare areas within the pond embankments and pond bottom.
- The South trickle channel is damaged and will need to be repaired.
- Outlet riprap protection is not adequate and should be installed per plan (see Construction Drawings Sheet 20).
- Standing water between Spillway #1 and Eastonville Road crossing culverts must be addressed to promote positive drainage.
- Standing water between Spillway #2 and Eastonville Road crossing culverts must be addressed to promote positive drainage.

**Culverts (see Construction Drawings Sheet 43 for Culvert ID and location):**

- Storm #1, Storm #4, Storm #7 inlets must be cleaned out and temporary BMPs removed.
- Fine grade outlet riprap at Storm #7 to promote positive drainage.

**Stormwater Inlet Structures (see Construction Drawings Sheet 43 for Inlet ID and location):**

- Inlets that need to be cleaned of sediment and debris: Inlet #6, 13, 19, 20, 23, 24, 26, 27, 31
- Inlets that still have wood forms that need to be removed: Inlet #9
- Inlets that need to be cleaned out and the forms need to be removed: Inlet #11

**As-Built Drawings:**

- Please provide As-Built Drawings
- Please provide Pond Certification Letter and revised MHFD Detention Spreadsheet (v4.06)

**Final Acceptance Photo Log:**


Photo 1: Remove weeds from spillway at Pond H

Photo 2: Riprap outlet protection is inadequate at Pond H outlet


Photo 3: Standing water at Pond H


Photo 4: Mowing needed throughout Pond H. Seeding and stabilization needed.


Photo 5: Weir notch was not built per plan at Pond E


Photo 6: Cleanout of sediment at North outfall structure at Pond E

Photo 7: Riprap outlet protection inadequate at Pond E


Photo 8: South trickle channel needs repair at Pond E

Photo 9: Excess standing water throughout Pond E

Photo 10: Excess standing water throughout Pond E

Photo 11: Excess standing water throughout Pond E. Mowing needed

Photo 12: Excess standing water throughout Pond E. Northern most inlet pipe

Photo 13: Trickle channel needs cleaned out at Pond E

Photo 14: Storm #1 oulet standing water.

Photo 15: Storm #4 inlet needs to be cleaned and temporary BMPs removed.

Photo 16: Storm #4 outlet needs to be cleaned and temporary BMPs removed.

Photo 17: Storm #7 inlet needs to be cleaned out.

Photo 18: Storm #7 outlet needs to be cleaned and temporary BMPs removed.

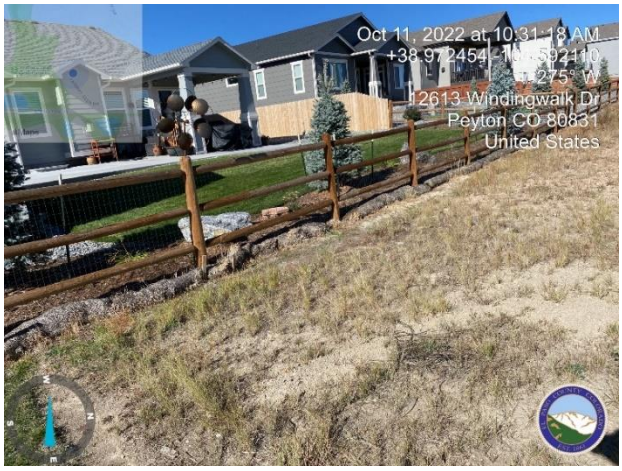

Photo 19: Ensure all temporary control measure are removed

Photo 20: Inlets throughout filing need to be cleaned out and debris removed