



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

Project Name:	Bent Grass Residential F2
EDARP Filing Number(s):	SF1914, CON2022
ESQCP Number:	ESQ228
Attendees:	DPW SW: Dylan Finley, Ben Jones DPW Development Services: Spencer Pirzadeh, Brad Walters Developer: George Hart, Erin Ganaway
Date of Walk-Thru:	09/13/2023
Walk-Thru Number:	1

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:

Stormwater Inlet Structures [GEC pages 2.04]:

- Inlets that need to be cleaned of debris: Rock socks present inside of the inlet box.
 - Inlets near south pond marked with green paint.
 - South inlet above box culvert

Pond North [GEC pages. G5.02, G6.01, G6.02]:

- Findings listed on 6/23/22 punchlist and still not completed:
 - Missing outlet protection. (Type L soil riprap page G5.02)
 - As of 9/13/23, all pond components and pond bottom have lots of sediment throughout that needs to be removed, including all riprap. Unable to complete inspection of the previous findings listed below because of amount of sediment covering pond. The PA inspection will be completed once sediment is removed. And the items below will be re-inspected.
 - Remove sediment and debris throughout pond.
 - Grade pond to top of trickle channel curb.
 - Grade pond bottom to min 3% slope towards trickle channel.
 - Missing pond sign (“proposed storm facility”)
 - Well screen type not acceptable: diamond plate not allowed. Drawing calls for Johnson vee wire. See sheet G6.01. See email from Glenn Reese from 11/2/2022 titled “Screen information – SF1914 – Bent Grass F2.”
 - Install restrictor plate on outlet pipe per plan and UD-Detention spreadsheet.
 - Confirm gasket at orifice plate.
- Repair erosion on northern embankment of pond.
- Repair erosion around south side of spillway cutoff wall.
- The grade of the north side of the spillway has been raised due to an adjacent temporary access road. This appears to be causing the aforementioned erosion. Regrade north side of spillway per plan.
- Clean and re-establish inlet protection around inlets just south of North Pond and clean sediment from adjacent gutter.

Pond South [GEC pages G6.03, G6.04, 6.05]

- Findings listed on 6/23/22 punchlist and still not completed:
 - Grade pond bottom to min 3% slope towards trickle channel. Cat tails present in low points where water is not draining.
 - Well screen type not acceptable. See explanation in North Pond above.
 - Missing pond sign (“proposed storm facility”).
 - Install restrictor plate on outlet pipe per plan and UD-Detention spreadsheet.
 - Confirm gasket at orifice plate.
- Remove debris from outlet structure.
 - Outlet structure inspection could not be completed because of amount of debris covering it. The PA inspection will be completed once debris is removed.
- Remove sediment from downstream end of pond outlet pipe in Swale C.
- Flared End Section missing from downstream end of pond outlet pipe.

Pond WU [GEC page 6.06]

- Gaskets missing from all orifice plates. Install the watertight seal per specification.
- Install plate over cross member between trash rack and orifice plate to prevent debris clogging outlet structure.

Swales [GEC pages 2.0- 5.01, 7.02]

- Swale A has standing water at point near channel. Cat tails present. Sediment eroding into channel.
- Swale B (which is tributary to North Pond) not installed per plan. See GEC Plan Sheet G2.03 and G5.01.
- Swale E missing north pipe and riprap pad.
- Swale F missing riprap.
- Swale G not installed per plan.
- Swale H not installed per plan.

Channel Improvements [CDs C4.06]

- Install drop structure in main channel with 24” grouted boulders. (West of Swale B).
- Also missing:
 - 1.5’ high riprap check dam
 - Type M Soil Riprap 24” deep
 - Six-foot deep cutoff wall
 - Three-foot deep cutoff wall
 - Type L riprap 18” deep.

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:

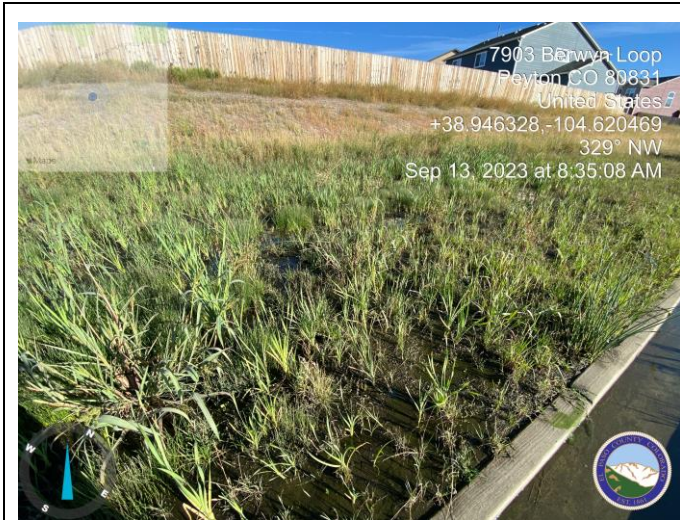


Photo 1: Swale A has standing water at point near channel. Cat tails present. Sediment eroding into channel. Regrade and stabilize.

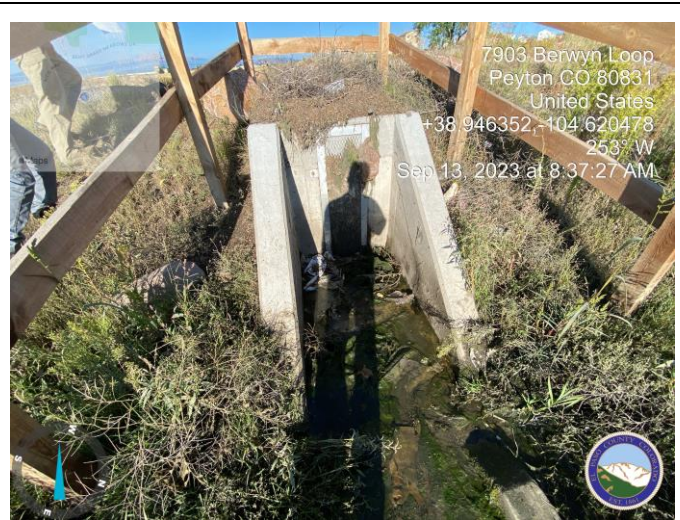


Photo 2: (South Pond) Outlet structure inspection could not be completed because of amount of debris covering it. The PA inspection will be completed once debris is removed.

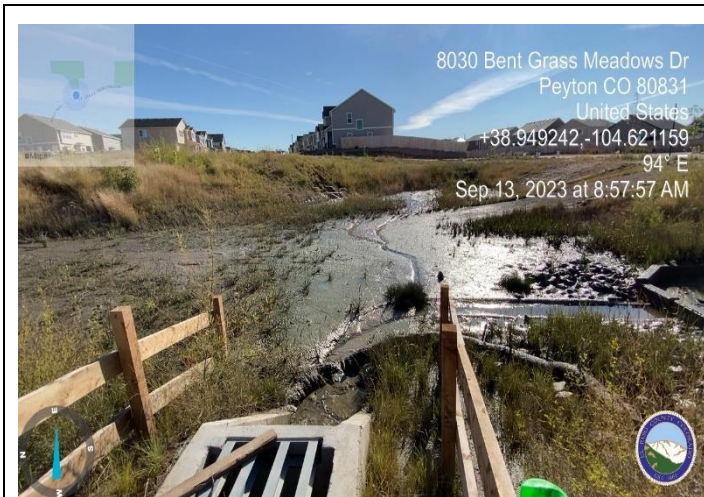


Photo 3: Remove sediment and debris throughout pond. Grade pond to top of trickle channel curb. Grade pond bottom to min 3% slope towards trickle channel.

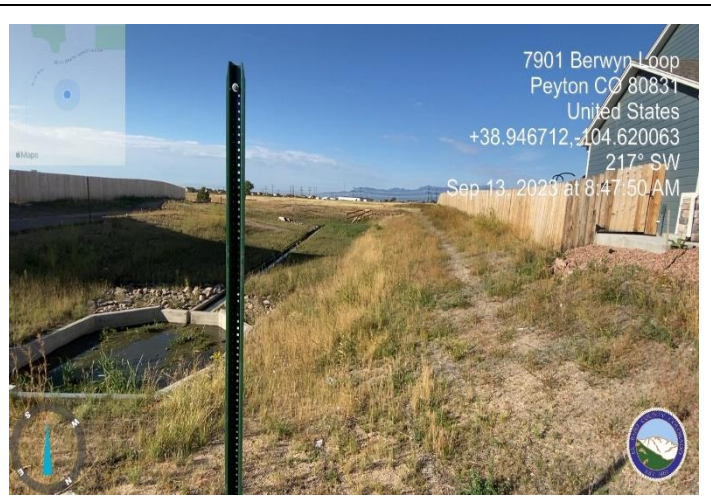


Photo 4: Signage for permanent ponds missing at both ponds.

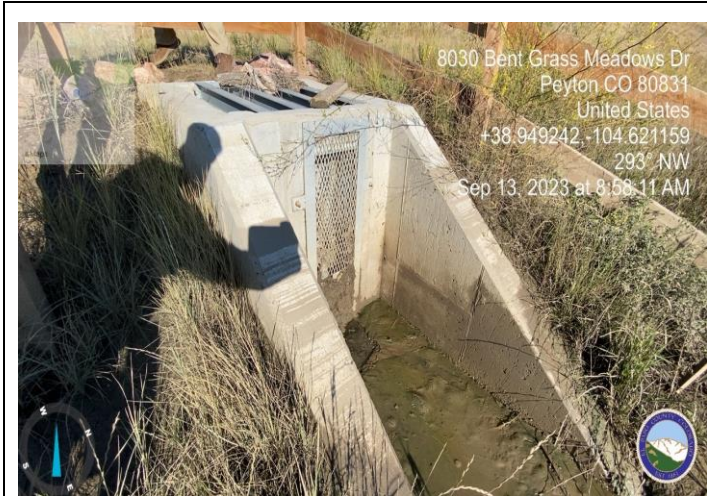


Photo 5: Well screen type not acceptable: diamond plate not allowed. Drawing calls for Johnson vee wire. See sheet G6.01



Photo 6: North Pond embankments eroding. Regrade and stabilize.

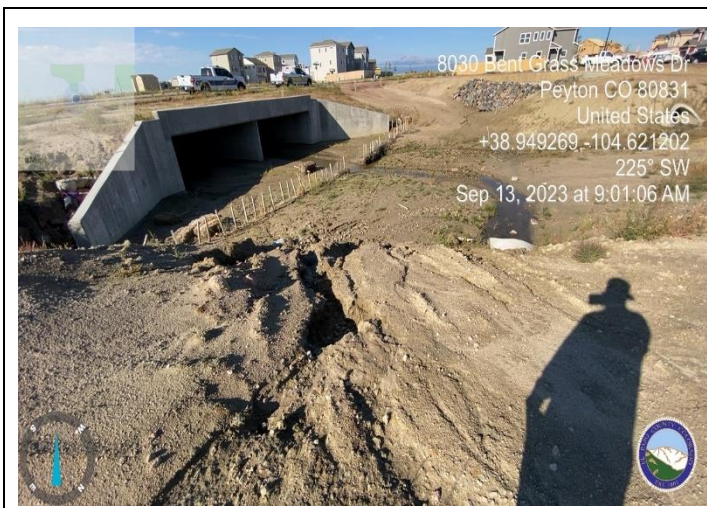


Photo 7: North pond outfall near cutoff wall eroding. Regrade and stabilize.

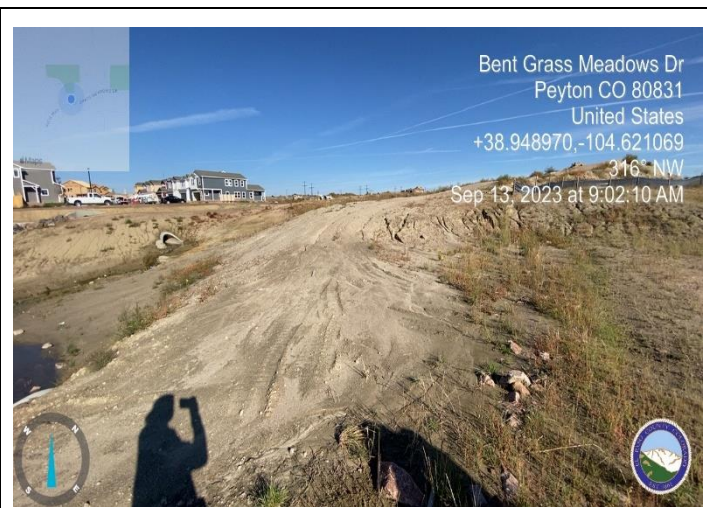


Photo 8: The grade of the north side of the spillway has been raised due to an adjacent temporary access road. This appears to be causing the erosion at cutoff wall. Regrade north side of spillway per plan.

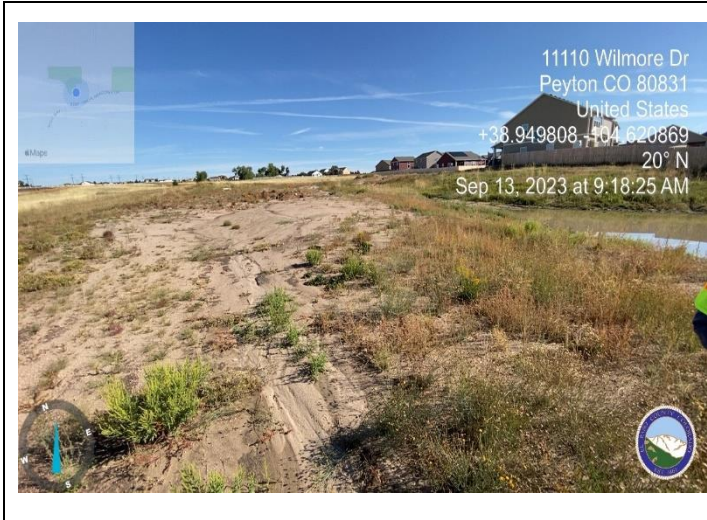


Photo 9: Install Swale B (which is tributary to North pond) per plan. See GEC Plan Sheet G2.03 and G5.01.



Photo 10: Swale A has standing water at point near channel. Cat tails present. Sediment eroding into channel. Regrade to promote positive drainage and stabilize.

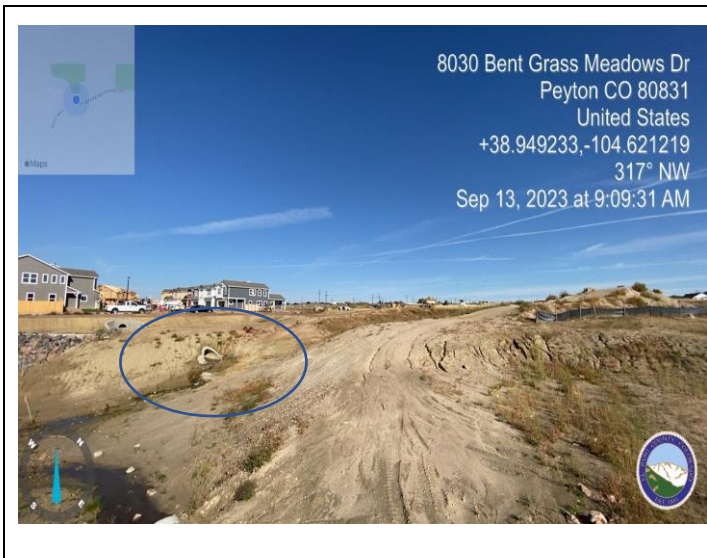


Photo 11: Install drop structure and other improvements in main channel (West of Swale B). See GEC Plan Sheet G7.02.



Photo 12: Pond WU - Install plate over cross member to prevent debris clogging outlet structure.

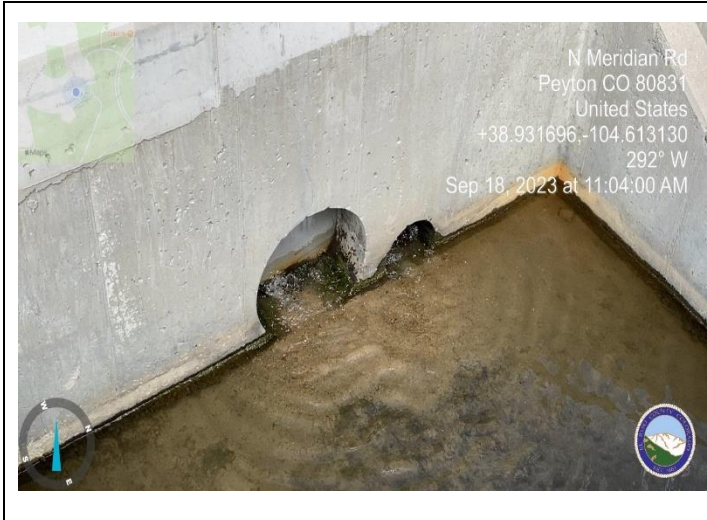


Photo 13: (Pond WU) Gaskets missing from all orifice plates. Install the watertight seal per spec. (GEC page 6.06)



Photo 14: Swale G not Installed per plan



Photo 15: Swale H not installed per plan