Preliminary/Final Acceptance Punchlist

El Paso County – Department of Public Works - Stormwater Section

Project Name:	Saddlehorn Ranch Filing 1
EDARP Filing Number(s):	ESQ2131
ESQCP Number:	SF1912
Attendees:	DPW SW: Natasha Grimaldo, Ben Jones, Christina Prete, and Mikayla Hartford DPW Development Services: N/A Developer: ROI Property, LLC
Date of Walk-Thru:	06/19/2023
Walk-Thru Number:	1st

Please note that this Punchlist may not be exhaustive, and a secondary walk may be required to ensure that all permanent water quality features are installed per the approved plans.

All items should be 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:

Pond G:

- Top of Pond berm is between 12'-14' wide causing slopes to be too steep. North perimeter pond slopes should be 3:4:1, and south perimeter pond slopes should be 3:3:1 Reference Sheet 45 of the Construction Documents.
- Implement proper pond components per specification (e.g., trash rack, mesh grate, trash screen etc.). Ensure that the orifice plate is properly sealed and watertight. Reference Sheet 48 of the Construction Drawings.
- Stairs installed in the Outlet structure for Pond G are not called for on the approved plans. Change structure to meet detail specs or show change on the as-builts. Reference Sheet 48 on the Construction Drawings.
- Access road is above grade and holding water. Cut in road to be flush with the bottom of the pond per specification (12' wide with 8" of class 6). Reference Sheet 47 of the Construction Drawings.
- Plans for the Emergency Spillway call for soil riprap. Implement per approved plans or show change on the as-builts. Reference Sheet 47 on the Construction Drawings.
- Remove excess sediment from forebay structure.
- Remove excess sediment from forebay riprap.
- Approved plans call for a 29.80' concrete slab. Current forebay slab measures 25'. Extend concrete in forebay to match detail specifications. Reference Sheet 47 of the Construction Drawings.
- Grade pond bottom to be flush with the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.

Box Culvert:

- Inlet end - Raise rip rap to be flush with the flared end section of the culver to promote positive drainage.
- Repair riling above inlet and outlet of the box culvert and stabilize.
- Repair riling SE of the box culvert and stabilize.

- Maintenance access road is above grade causing channeling/riling. Cut in road to be flush with the grade per specification (12’ wide with 8” of class 6). Reference Sheet 36 of the Construction Drawings.
- Riprap rundown does not meet the 110’ length requirement. Extend riprap rundown to roadside ditch. Reference Sheet 36 of the Construction Drawings.
- Implement contour within the riprap rundown per the Grading Plans.
- Implement Low flow channel. Channel should ne 12’ wide and 1’ deep lined with riprap throughout the entirety of the channel. Reference Sheet 36 of the Construction Drawings.
- Inlet and Outlet- Riprap is not uniform Type H. Remove sediment and implement approved Type H riprap. Grouted riprap slopes should be shown on the as-builts. Reference Sheet 36 of the Construction Drawings.
- Outlet- Raise rip rap to be flush with the flared end section of the culver to prevent undercutting.
- Remove excess sediment from riprap.

Pond I:

- Maintenance access road is above grade and holding water. Cut in road to be flush with the bottom of the pond per specification (12’ wide with 8” of class 6). Reference Sheet 43 of the Construction Drawings.
- Remove excess sediment and riprap rock from forebay weir notch to promote positive drainage.
- Implement Type L grouted riprap per approved plans. Reference Sheet 43 of the Construction Drawings.
- Grade pond bottom to be flush with the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.
- Emergency Spillway is cut too deep. Total depth should be 1’ 6 ½”. Reference Sheet 43 of the Construction Drawings.
- Pond Slopes are too steep. Slopes should range between 3:0:1-3:2:1. Reference Sheet 41 of the Construction Drawings.
- Outfall riprap is holding water. Reestablish riprap to promote positive drainage.
- Implement proper pond components per specification (e.g., trash rack, mesh grate, trash screen etc.). Ensure that the orifice plate is properly sealed and watertight.

Pond H:

- Grade pond bottom to be flush with the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.
- Implement proper pond components per specification (e.g., trash rack, mesh grate, trash screen etc.). Ensure that the orifice plate is properly sealed and watertight.
- Fine Grade outfall riprap to promote positive drainage.
- Maintenance access road is above grade and holding water. Cut in road to be flush with the bottom of the pond per specification (12’ wide with 8” of class 6). Reference Sheet 43 of the Construction Drawings.
- Implement Type L grouted riprap per approved plans. Reference Sheet 39 of the Construction Drawings.
- Unable to measure/check forebay. Remove excess sediment from forebay.
- Unable to inspect trickle channel for cracks. Remove excess sediment.
- Fine grade pond slopes around outlet structure and implement stabilization.
- Vegetation is sparce along the back side of pond slopes. Seed and stabilize slopes.
- Back of pond slopes are too steep. Slopes should be 3:0:1. Reference Sheet 37 of the Construction Drawings.

Site Wide:

- Fine grade ditches throughout the site and stabilize.
- Remove excess sediment from FEC of culverts and implement soil riprap. Reference Sheet 34 of the Construction Drawings.
- Remove sediment from culverts to allow for proper drainage.
- Ensure pond berms are comprised of suitable material and compacted sufficiently as approved by the design engineer. In this field the berms did not appear compacted.

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.
- 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.
- Re-submit UD-Detention spreadsheet per changes shown in as-builts. Can be included with Cert Letter.
    - If significant changes, would need to also submit an updated SDI Form.

Photos:

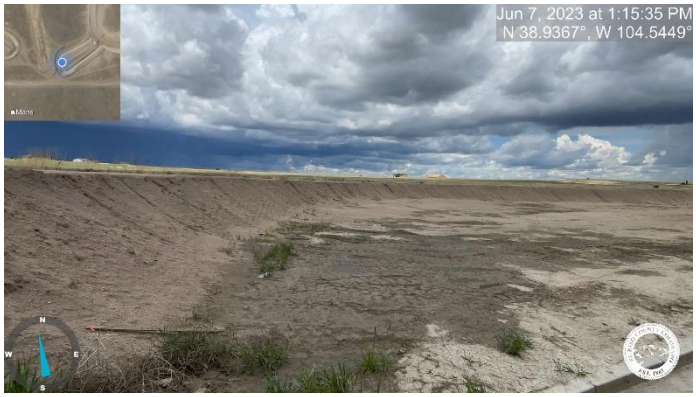
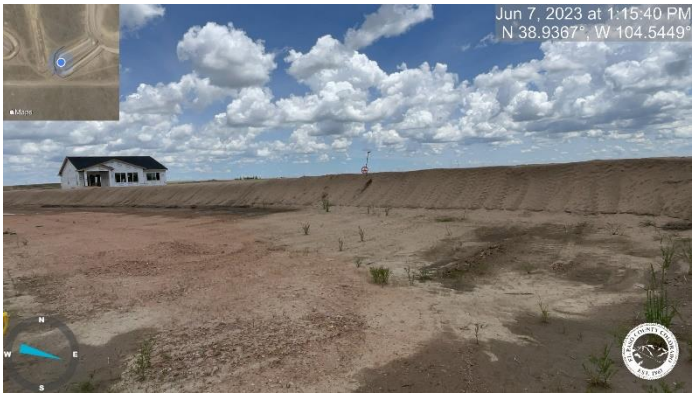
	

Photo 1: Pond G: Top of Pond berm is between 12'-14' wide causing slopes to be too steep. Photo is depicting the north perimeter pond slopes (should be 3:4:1). Reference Sheet 45 of the Construction Documents.	Photo 2: Pond G: Top of Pond berm is between 12'-14' wide causing slopes to be too steep. Photo is depicting the south perimeter pond slopes (should be 3:3:1). Reference Sheet 45 of the Construction Documents.

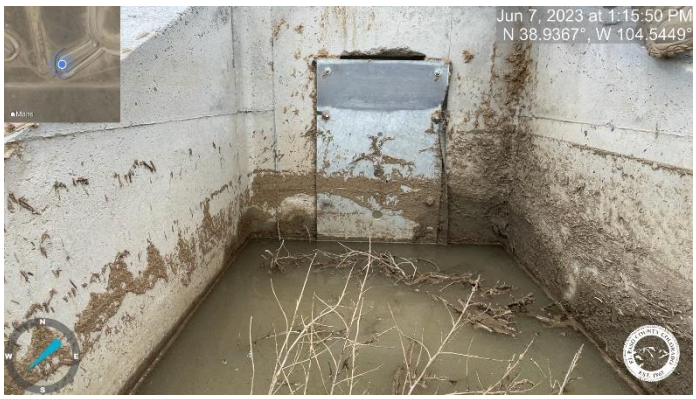
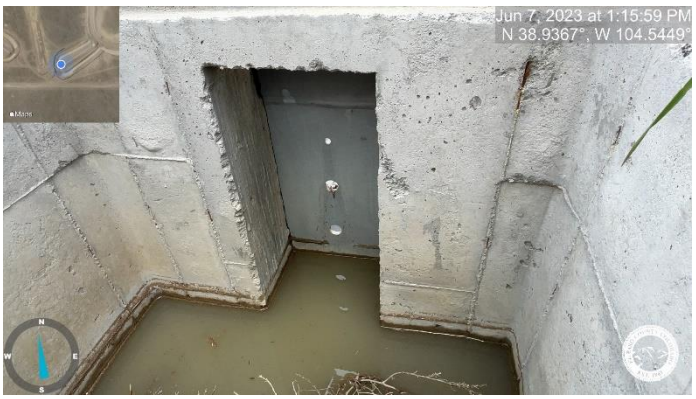
	

Photo 3: Pond G: Implement proper pond components per specification (e.g., trash rack, mesh grate, trash screen etc.). Ensure that the orifice plate is properly sealed and watertight. Reference Sheet 48 of the Construction Drawings.	Photo 4: Pond G: Implement proper pond components per specification (e.g., trash rack, mesh grate, trash screen etc.). Ensure that the orifice plate is properly sealed and watertight. Reference Sheet 48 of the Construction Drawings.

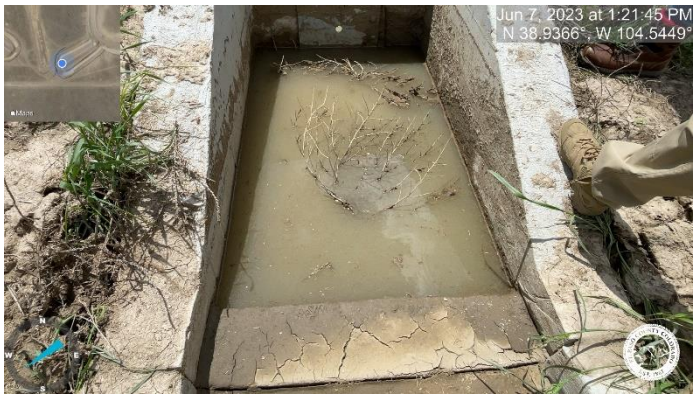
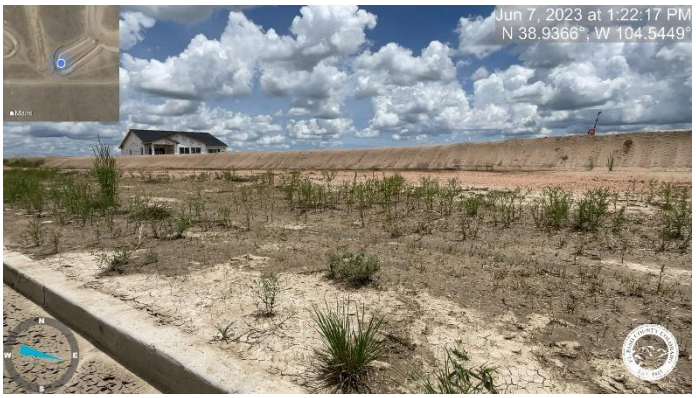
	

Photo 5: Pond G: Stairs installed in the Outlet structure for Pond G are not called for on the approved plans. Change structure to meet detail specs or show change on the as-builts. Reference Sheet 48 on the Construction Drawings.	Photo 6: Pond G: Maintenance access road is above grade and holding water. Cut in road to be flush with the bottom of the pond per specification (12’ wide with 8” of class 6). Reference Sheet 47 of the Construction Drawings.

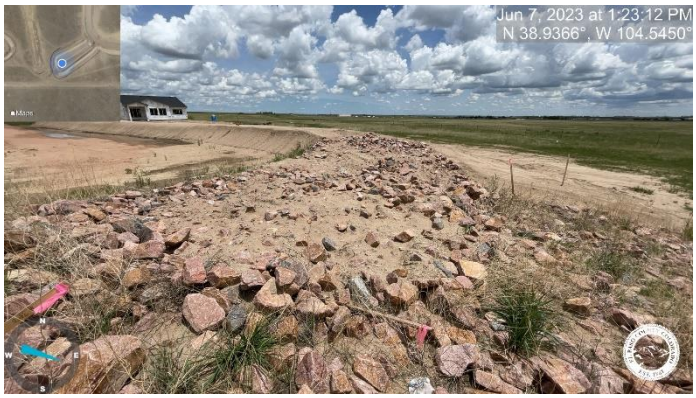
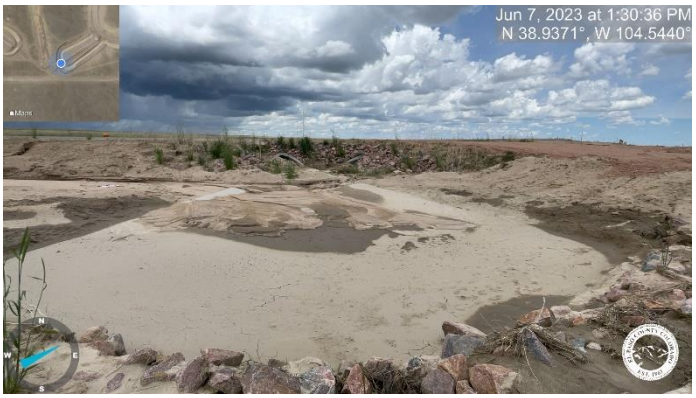
	

Photo 7: Pond G: Plans for the Emergency Spillway call for soil riprap. Implement per approved plans or show change on the as-builts. Reference Sheet 47 on the Construction Drawings.	Photo 8: Pond G: Remove excess sediment from forebay structure.

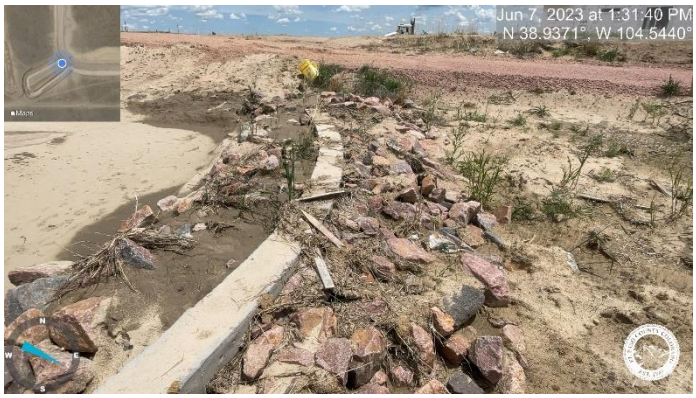
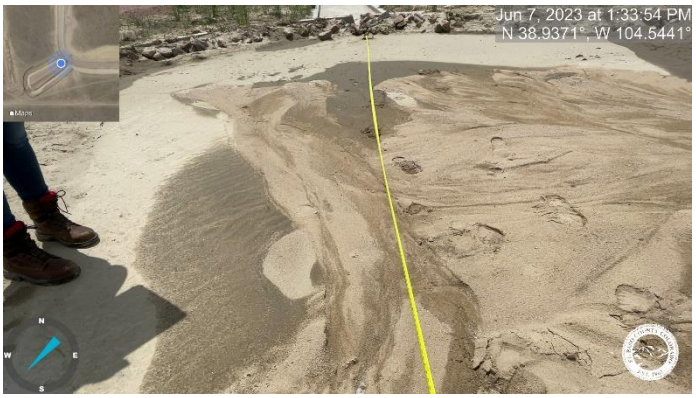
	

Photo 9: Pond G: Remove excess sediment from forebay riprap.	Photo 10: Pond G: Approved plans call for a 29.80’ concrete slab. Current forebay slab measures 25’. Extend concrete in forebay to match detail specifications. Reference Sheet 47 of the Construction Drawings.

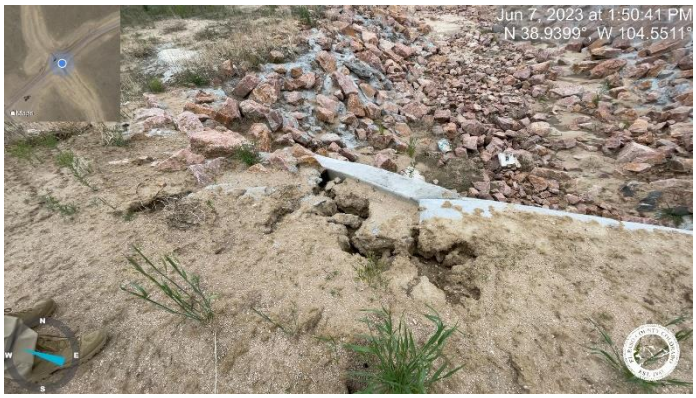
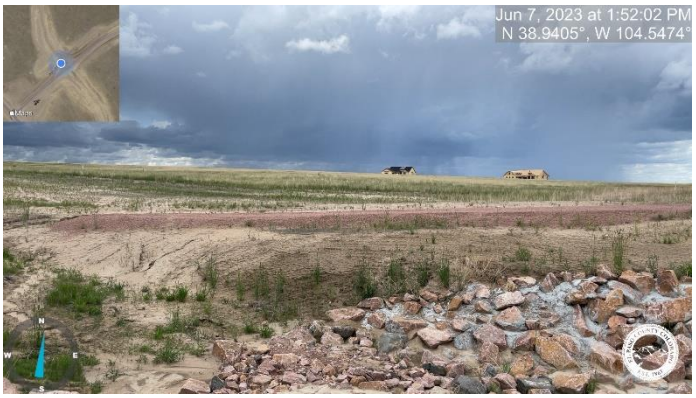
	

Photo 13: Box Culvert Inlet: Repair riling above inlet of the box culvert and stabilize.	Photo 14: Box Culvert: Maintenance access road is above grade causing channeling/riling. Cut in road to be flush with the grade per specification (12’ wide with 8” of class 6). Reference Sheet 36 of the Construction Drawings.

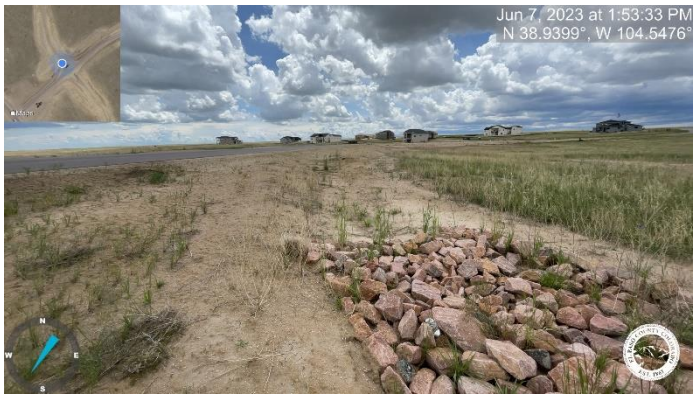
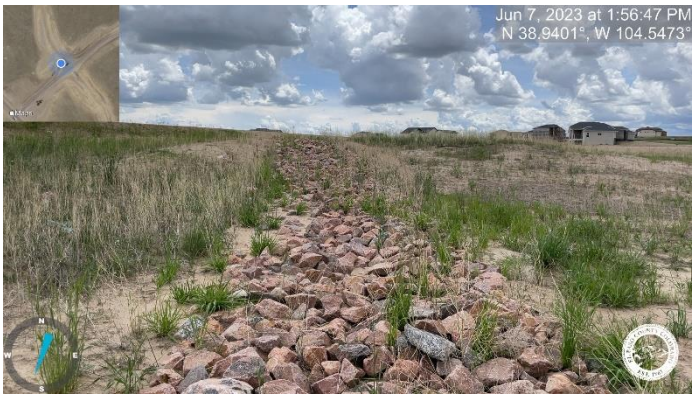
	

Photo 15: Box Culvert: Riprap rundown does not meet the 110’ length requirement. Extend riprap rundown to roadside ditch. Reference Sheet 36 of the Construction Drawings.	Photo 16: Box Culvert: Implement contour within the riprap rundown per the Grading Plans.

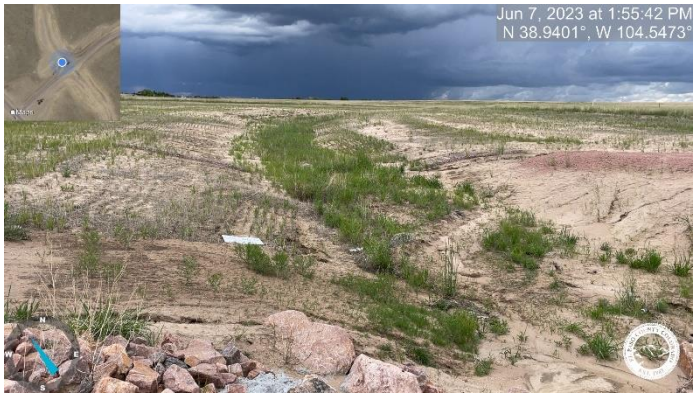
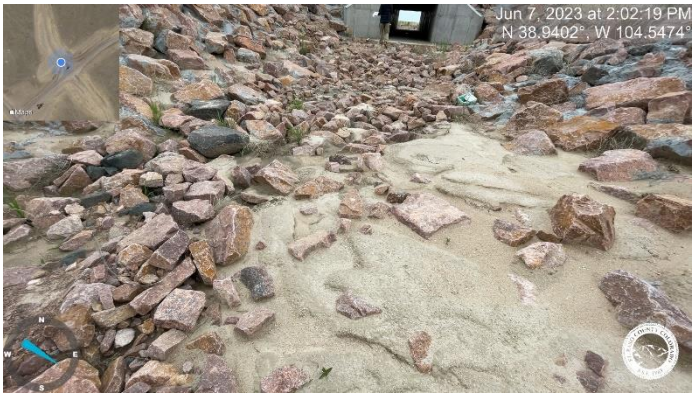
	

Photo 17: Box Culvert: Implement Low flow channel. Channel should ne 12’ wide and 1’ deep lined with riprap throughout the entirety of the channel. Reference Sheet 36 of the Construction Drawings.	Photo 18: Box Culvert Inlet: Riprap is not uniform Type H. Remove sediment and implement approved Type H riprap. Grouted riprap slopes should be shown on the as-builts. Reference Sheet 36 of the Construction Drawings.

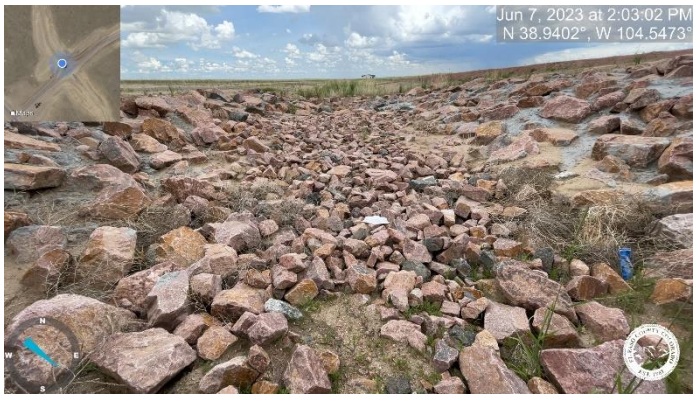
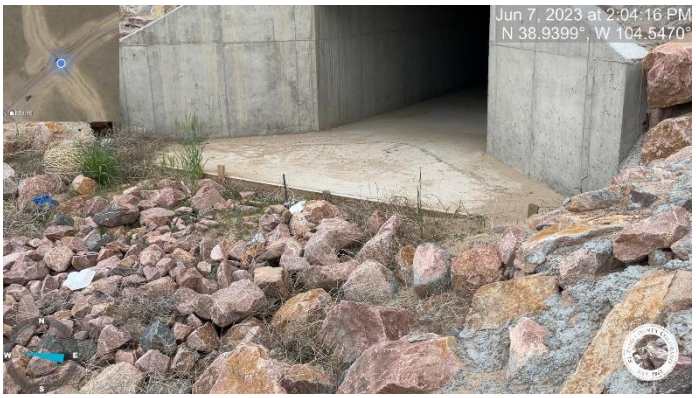
	

Photo 19: Box Culvert Outlet: Riprap is not uniform Type H. Remove sediment and implement approved Type H riprap. Grouted riprap slopes should be shown on the as-builts. Reference Sheet 36 of the Construction Drawings.	Photo 20: Box Culvert Outlet: Raise rip rap to be flush with the flared end section of the culver to prevent undercutting.

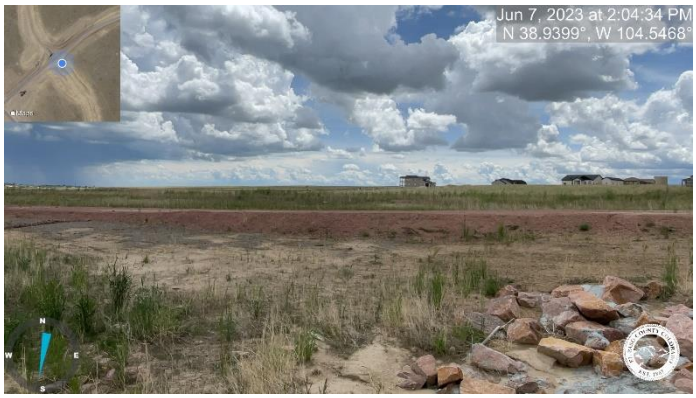
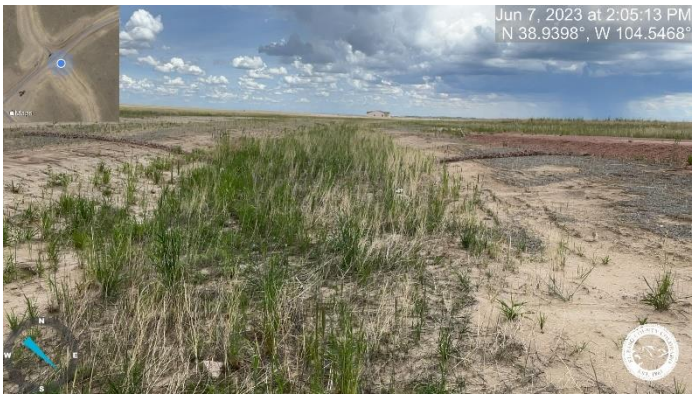
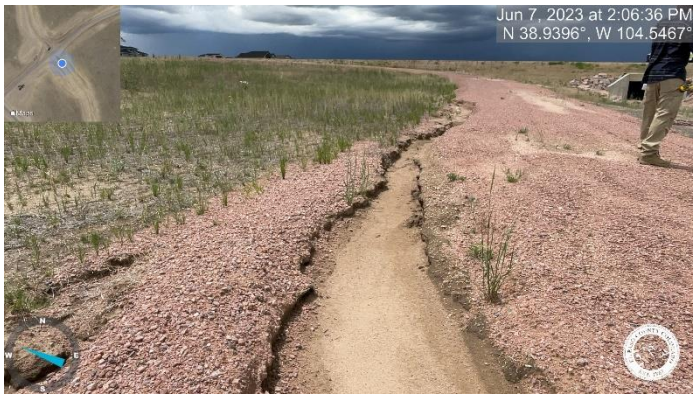
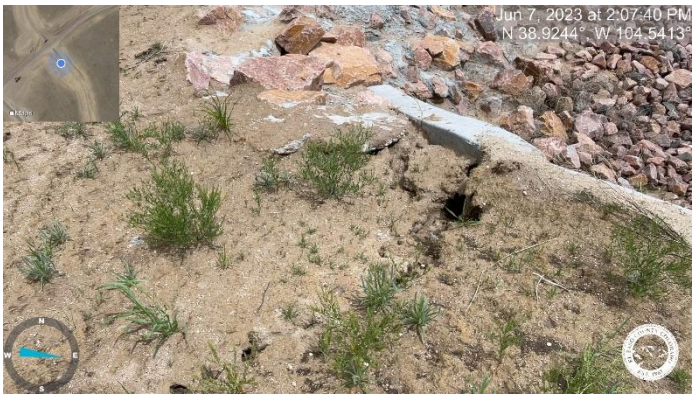
	

Photo 21: Box Culvert Outlet: Maintenance access road is above grade causing channeling/riling. Cut in road to be flush with the grade per specification (12’ wide with 8” of class 6). Reference Sheet 36 of the Construction Drawings.	Photo 22: Box Culvert Outlet: Implement Low flow channel. Channel should ne 12’ wide and 1’ deep lined with riprap throughout the entirety of the channel. Reference Sheet 36 of the Construction Drawings.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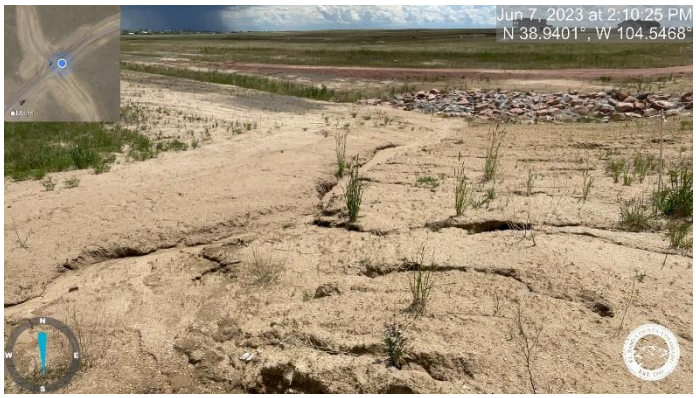
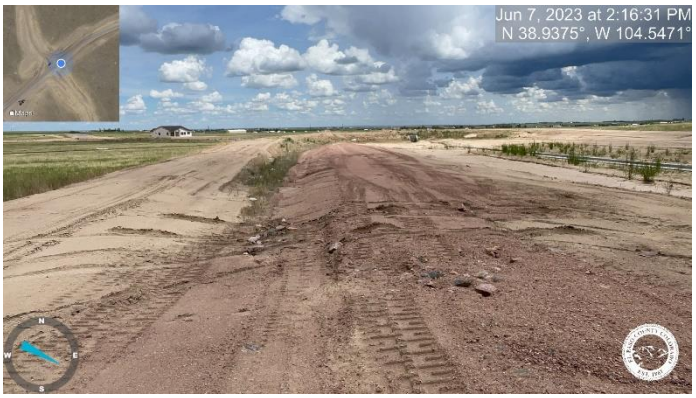
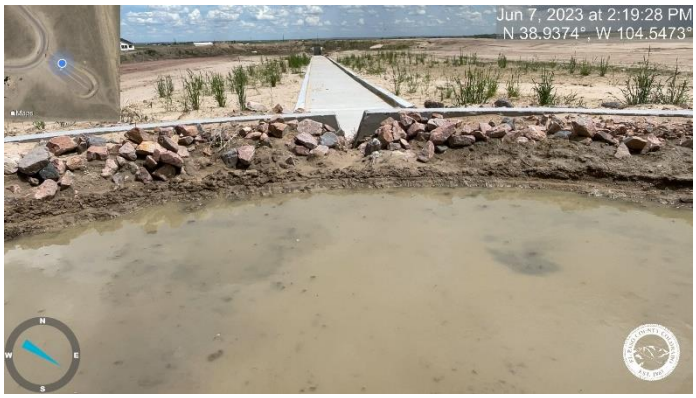
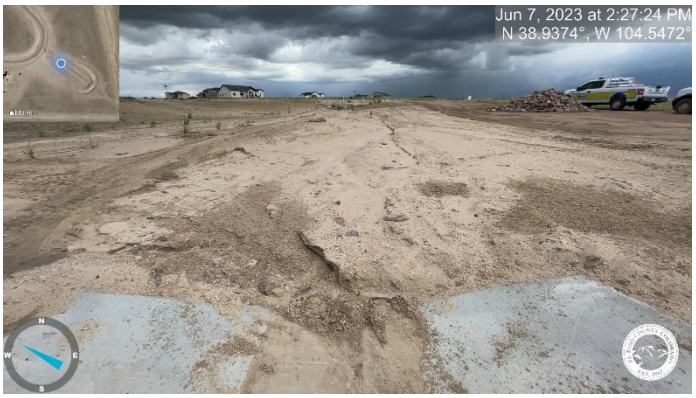
	

Photo 25: SE of the Box Culvert: Repair riling SE of the box culvert and stabilize.	Photo 26: Pond I: Maintenance access road is above grade and holding water. Cut in road to be flush with the bottom of the pond per specification (12’ wide with 8” of class 6). Reference Sheet 43 of the Construction Drawings.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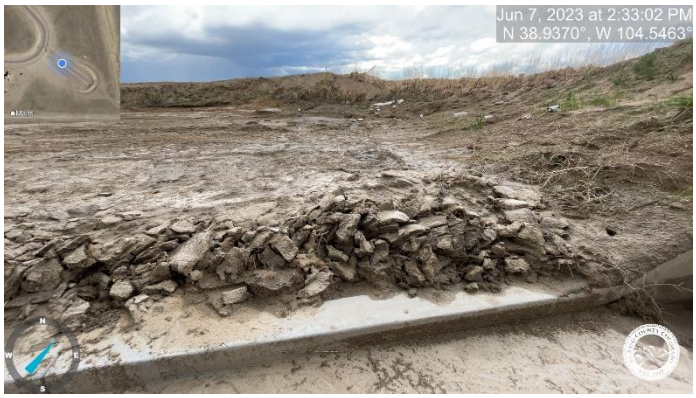
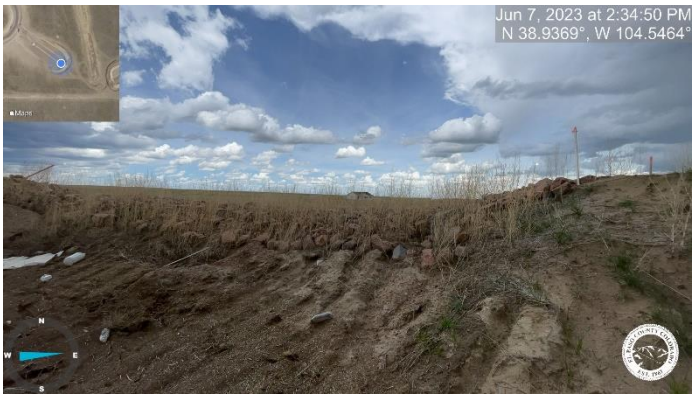
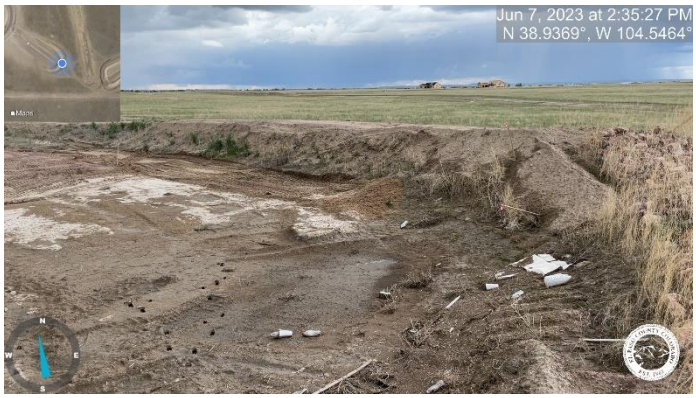
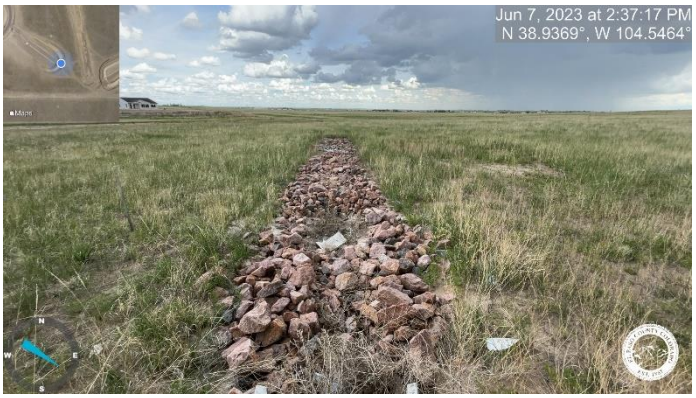
	

Photo 29: Pond I: Grade pond bottom to be flush with the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.	Photo 30: Pond I: Emergency Spillway is cut too deep. Total depth should be 1’ 6 ½”. Reference Sheet 43 of the Construction Drawings.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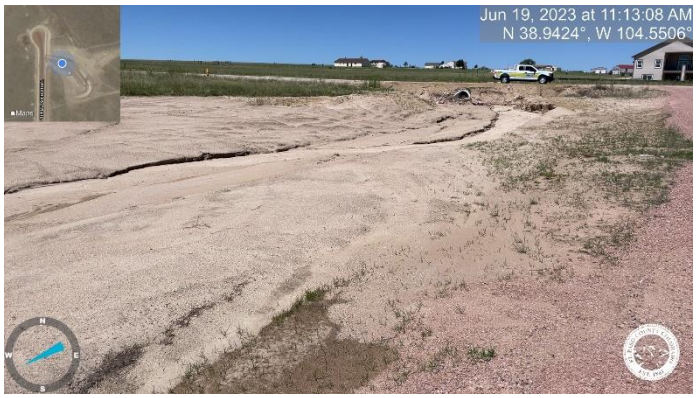	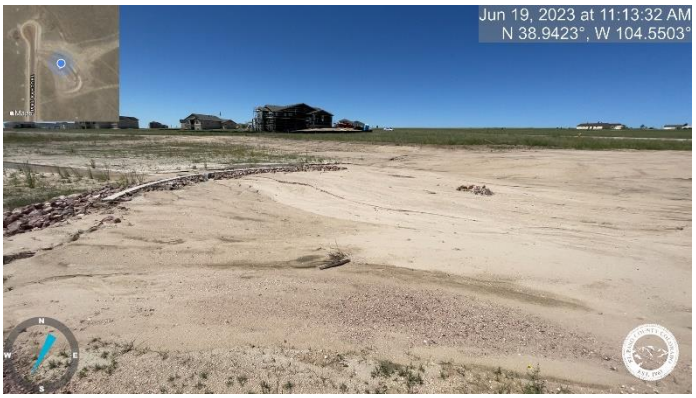
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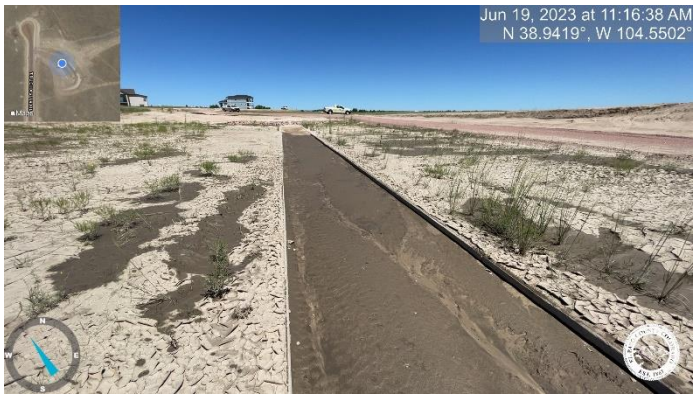	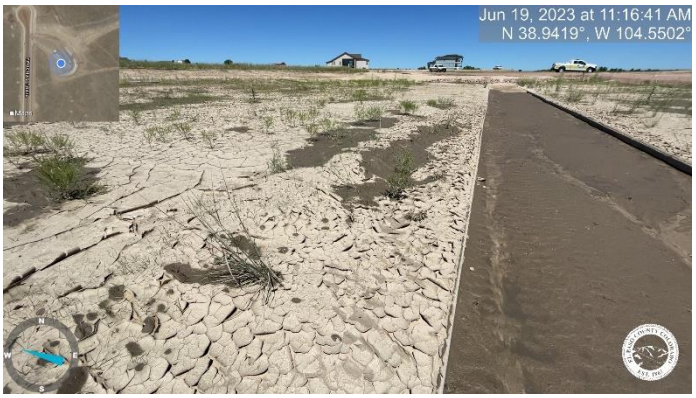
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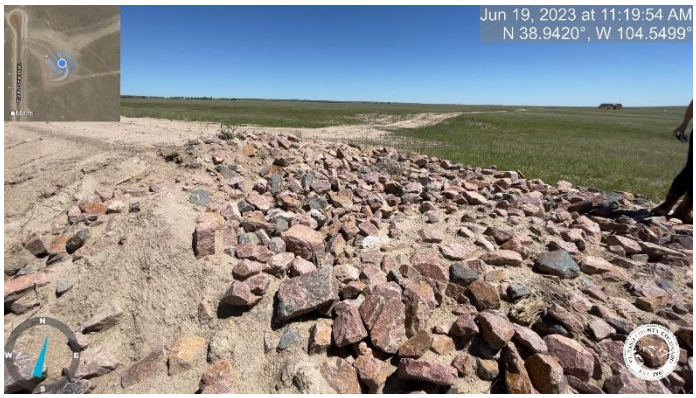	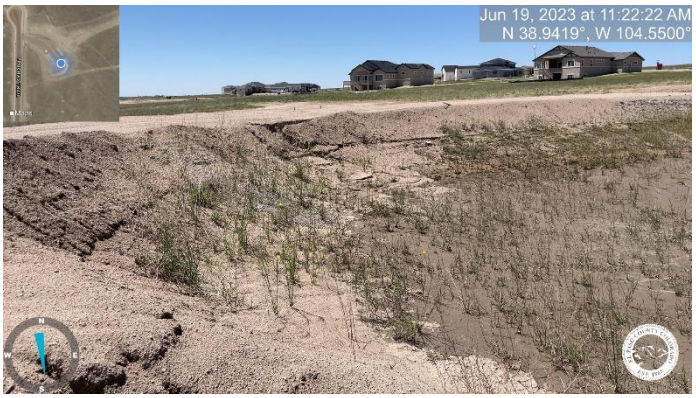
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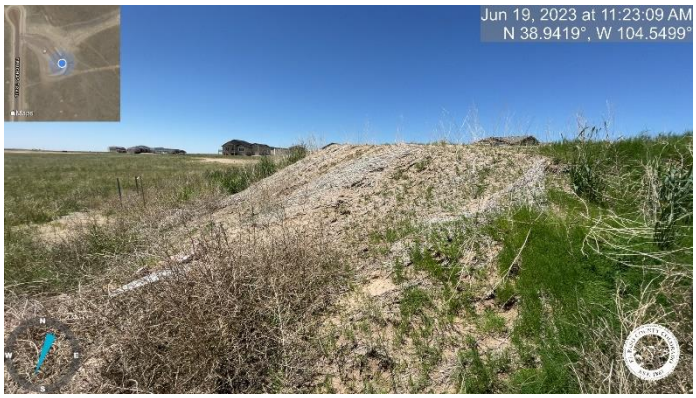	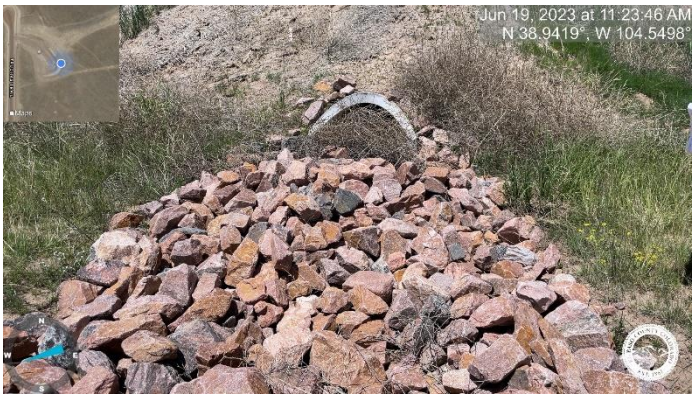
Photo 39: Pond H: Vegetation is sparce along the back side of pond slopes. Seed and stabilize slopes.	Photo 40: Pond H: Fine grade to promote positive drainage at pond outfall.
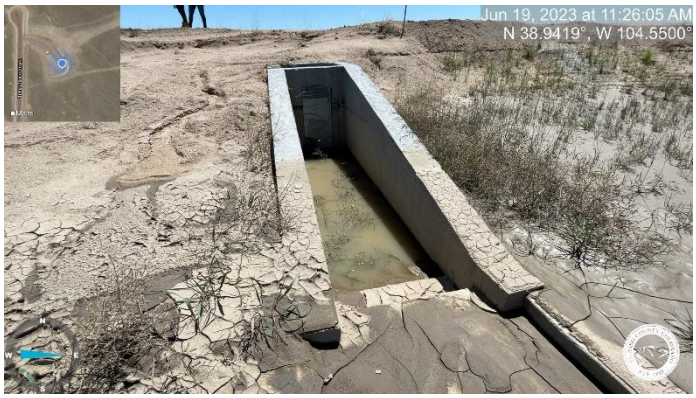	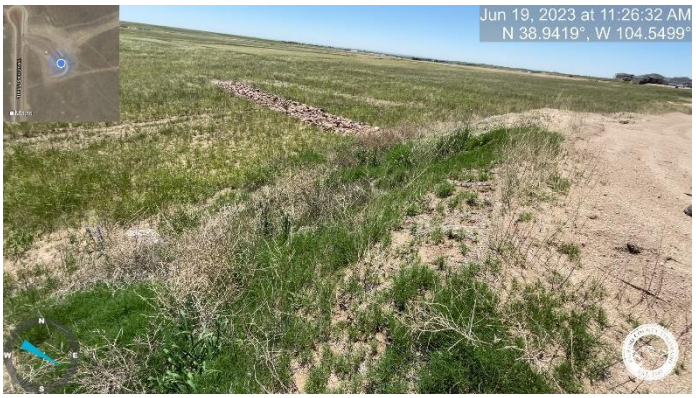
Photo 41: Pond H: Implement proper pond components per specification (e.g., trash rack, mesh grate, trash screen etc.). Ensure that the orifice plate is properly sealed and watertight. Reference Sheet 40 of the Construction Drawings.	Photo 42: Pond H: Pond Slopes are too steep. Slopes should be 3:0:1. Reference Sheet 37 of the Construction Drawings.

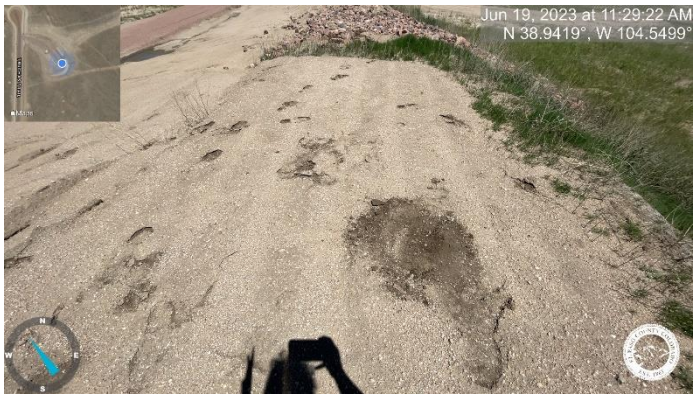	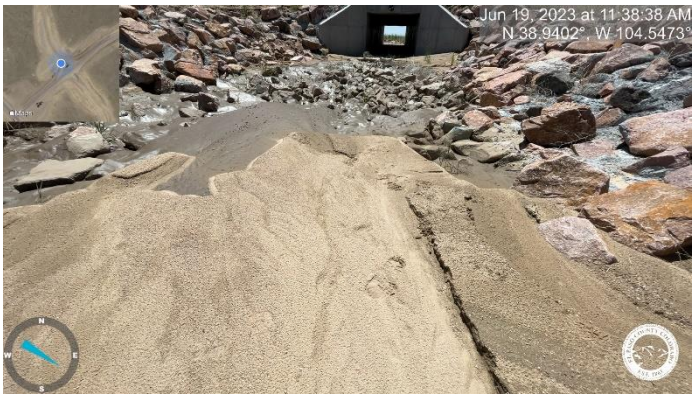
Photo 43: Pond H: Berm compaction?	Photo 44: Box Culvert: Remove excess sediment from riprap.
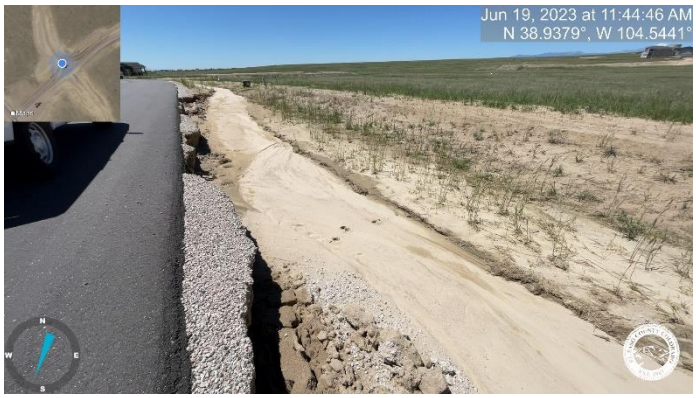	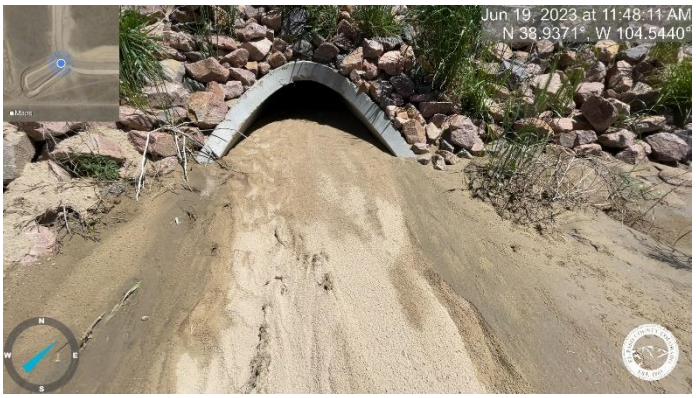
Photo 45: Site wide: Fine grade ditches and implement stabilization.	Photo 46: Site wide: Remove excess sediment from culverts and implement soil riprap at the FES of culvers. Reference Sheet 34 of the Construction Drawings.

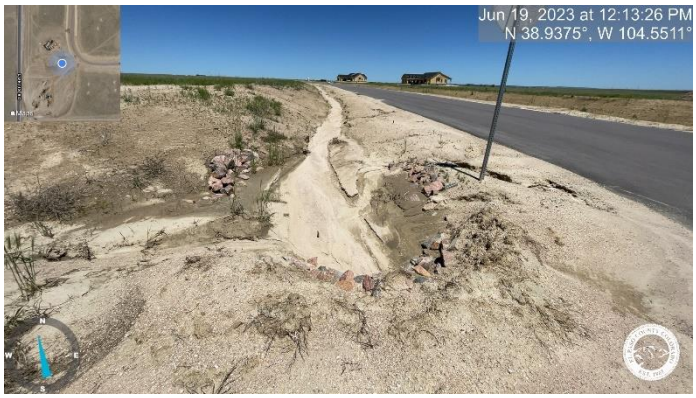	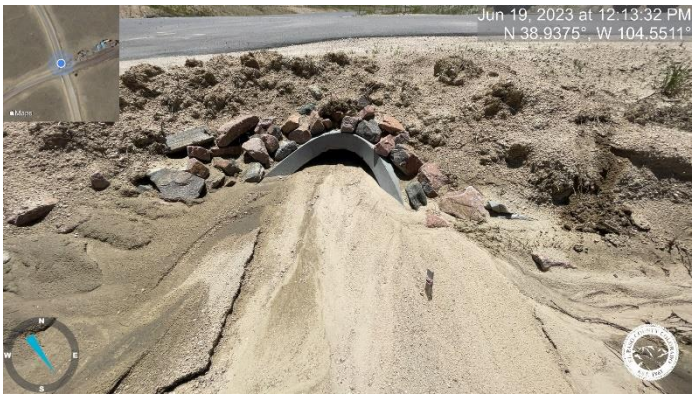
Photo 47: Site wide: Fine grade ditches and implement stabilization.	Photo 48: Site wide: Remove sediment from culverts to allow for proper drainage.

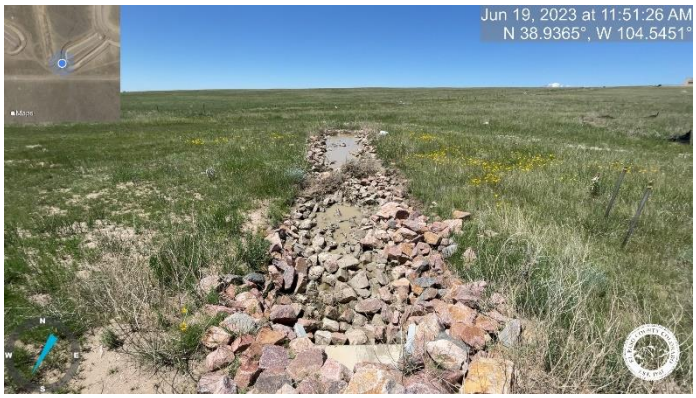	
Photo 49: Pond G: Outfall riprap is holding water. Fine grade to promote positive drainage.	

Subdivision/Business:

For sites with PBMP(s), please complete and return as much of this table as possible for the PBMP(s):

Contact Info	**Owner**	**Responsible Maintenance Entity**
Company/Business Name:		
Entity Type: (HOA, Metro District, Trust, Individual, Contractor, Business, etc)		
Mailing Address:		
Primary Contact Name(s):		
Primary Phone Number:		
Primary Email Address:		
Additional Email Addresses to Add to Distribution List:		
Additional Information / Comments:		