Final Acceptance (FA) – Punchlist from EPC Stormwater

Project Name:	Flying Horse North
PCD Filing Number:	SF-18-001
ESQCP #:	ESQ17-011
Attendees:	DPW: Molly Galloway Layshock, Natasha Grimaldo, Ben Jones PCD: Brad Walters, David Parkerson Developer: Austin Lenz
Date of Walk-Thru:	10/25/2022
Walk-Thru #:	FA walk #1

Internal Note: Pre-PA walk-thru of detention facilities 1, 4, 8 and 12 completed by EPC Stormwater personnel Ben Jones, Natasha Grimaldo, Christina Prete, and Molly Galloway Layshock on 10/20/2022. Natasha Grimaldo, Erica Rylander, and Molly Galloway Layshock measured and observed the Flying Horse North Irrigation Reservoir Embankment on 11/2/2022.

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

Detention Facility 1 (Flying Horse North Filing No. 1 Storm Sewer Construction Drawings [hereinafter referred to as Construction Drawings] Sheet 11 of 22)

- Outlet box orifice plate not installed
- Remove sediment from pipe
- Remove sediment from riprap pad at pond outlet

Detention Facility 4 (Construction Drawings Sheet 14 of 22)

- Remove temporary control measures from pond embankment
- Remove weeds from pond embankments, pond bottom, and all riprap pads
- Raise pond bottom to top of trickle channel curb with a 3% slope towards trickle channel for positive drainage
- Extend the riprap around the southern trickle channel to match the detail on Sheet 14

Detention Facility 8 (Construction Drawings Sheet 16 of 22)

- Fine grade around outlet structure
- Remove temporary control measure from outfall
- Remove weeds from outfall riprap
- Adjust restrictor plate so that it is installed to match the detail on Sheet 19

Detention Facility 12 (Construction Drawings Sheet 20 of 22)

- Regrade 8'x20' riprap dissipater at 30" RCP for positive drainage
- Fine grade in front of concrete
- Remove berm northeast of detention facility 12 to match grade on adjacent property to allow for positive drainage
- Remove temporary control measure from rear of detention facility and straw bale barriers east of access road

Culvert Crossings

Dual 30" RCP Storm Sewer Culvert Crossing @ STA. 28+54.05 (Construction Drawings Sheet 4 of 22)

- Remove temporary control measures and add riprap to FES corners on north side of double barrel culvert
- Remove temporary control measures from 14.67'x 15' southern riprap pad

Stagecoach Road Triple 48" RCP Storm Sewer Crossing (Construction Drawings Sheet 8 of 22)

- Confirm soil riprap on southern side of triple barrel culvert
- Remove sediment from riprap pad at STA. 46+70.97 (Photo 2)

Stagecoach Road Dual 42" RCP Storm Sewer at STA. 83+47.22

- Repair erosion and remove temporary control measures on northern end of double barrel culvert at STA. 83+58.34

Old Stagecoach Road (Construction Drawings Sheet 5 of 22)

- Remove temporary control measures around 36" RCP at STA. 15+89.72
- 10'x20' riprap pad at inlet of flared end section not installed
- Fill in straw wattle trench at 48" RCP at STA. 57+83.44
- Remove sediment and temporary control measures from 30" RCP at STA. 74+10.30
- Remove temporary control measures and reinstall 10'x15' type L riprap pad at STA. 74+10.30

Old Stagecoach Road and Rubble Drive (Construction Drawings Sheet 6 of 22)

- Remove sediment and re-establish 10'x15' riprap pad at 30" RCP at STA. 82+81.01
- Remove sediment and temporary control measures from 36" RCP at STA. 94+59.96
- Re-establish 10'x20' riprap pad at Old Stagecoach Rd at STA. 94+84.47
- Remove sediment and temporary control measures from culvert at STA. 99+25.27

Longwall Drive (Construction Drawings Sheet 7 of 22)

- Clean sediment from culvert and FES at STA 7+58.28
- Remove sediment and re-establish 10.5'x10.5' riprap pad
- Remove temporary control measures
- Extend downstream riprap pad to meet proposed 12.5'x15.0' dimensions at STA. 22+69.02

18" RCP Storm Sewer Culvert Crossing Fire Access Driveway @ STA. 0+42.13 (Construction Drawings Sheet 3 of 22)

- 4'x4' riprap pad at inlet of flared end section not installed
- 4'x6' riprap pad at outfall of flared end section not installed
- Fine grade and stabilize where erosion has occurred up gradient of STA 0+42.30

24" RCP storm sewer Culvert Crossing Stagecoach Road @ STA. 10+04.74 (Construction Drawings Sheet 4 of 22)

- 8'x10' riprap pad on both ends of culvert not installed
- Remove sediment from flared end section
- Remove temporary control measures
- Fine grade riprap to promote positive drainage at 8'x10' type L riprap pad

30" RCP Storm Sewer Culvert Crossing Billings Court and Stagecoach Road @ STA. 10 +04 (Construction Drawings Sheet 3 of 22)

- Remove sediment from riprap pad
- Remove temporary control measures
- Fine grading needed to promote positive drainage
- Fill in straw wattle void and stabilize around downgradient riprap apron

Irrigation Reservoir Embankment (Flying Horse North Irrigation Reservoir Embankment Sheets 9 & 10 of 14)

- Address erosion along Storm/Access Easement

8'x4' SWQ Outlet Box with Flow Control Plate

- Only 2 openings; bottom opening welded shut (Photo 3)

48" RCP north of Old Stagecoach Road @ STA. 57 +83.44 (Construction Drawings Sheet 5 of 22)

- RCP outlets into a temporary sediment basin. Water cannot be held in that basin without a permanent outlet structure. If you are going to break through the embankment to allow the water to drain, you may need to armor the subsequent swale. Please discuss a more permanent solution with your engineer. And/or provide documentation that the future park plans will modify the drainage and remove the basin.

Photo Log:

Photo 1: Raise pond bottom to meet top of trickle channel at Detention Facility 4

Photo 2: Remove sediment from riprap pad, southwest of culvert at STA. 46+70.97.

 Photo 3: Irrigation Reservoir Embankment (JD Pond 13) 8'x4' SWQ Outlet Box with flow control plate welded shut.	