LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION

Inspection Summary

Permit #: PRPWFR20171746, Public Works Infrastructure Permit - Residential
Manor at Stoney Creek 2nd - street, storm, sewer and water
Address:

This work has been inspected and the inspection results noted below. Please call for re-inspection once all corrective actions have been completed. Do not cover any work until approved.

Inspection Item:

Inspection:	Inspector:	Outcome:	Date:
DEI-Water Line - Fire Hydrant	Brice Lawson	Failed	Monday, January 08, 2018

Corrective Action Required

1 Brice Lawson 01/08/2018 9:45 AM
The Clow fire hydrants have been installed at this site. The fire hydrants have ice built up inside the barrel section. I informed Darrin with Redford of this today. Redford is attempting to thaw the frozen fire hydrant that was installed at the dead end of Amethyst.

Make necessary corrections so that the fire hydrants do not freeze and operate properly.

DEI-Water Line - Construction Taps Removed	Brice Lawson	Passed	Monday, January 08, 2018

Resolved

1 Brice Lawson 12/22/2017 7:45 AM
I spoke with Ryan Elam about who is suppose to perform the construction taps on new water mains. He let me know that it is a gray area and that it is fine if the contractor taps the water mains.

A tap has been installed by Redford on the 8" water main near the tie-in to existing on Grindstone at Coutny Line Rd.

Properly remove remove construction taps on this site.

Brice Lawson 01/08/2018 3:44 PM

Redford removed the corp. stop and installed a plug in in the construction tap on the 8" main on Alibaster near the tie-in to the 12" main on County Line Rd. The corp. stop was removed and a plug was installed in the construction tap that is located on the 8" water main on Grindstone near the tie-in to the 12" water main on SW County Line Rd.

DEI-Storm - Sewer Construction Inspection	Brice Lawson	Partial	Monday, January 08, 2018

Informational

1 Brice Lawson 11/10/2017 11:35 AM

Redford has installed CI 4-1, CI 4-2, CI 4-3 and CI 4-4. The 15" HDPE storm pipe has been installed between CI 4-4 and CI 4-3. The 18" HDPE pipe has been installed between CI 4-3 and CI 4-2. The 24" HDPE pipe has been installed between CI 4-2 and CI 4-1. The remainder of the 24" HDPE storm pipe has been installed between CI 4-1 and FI 2-5. There is approx. 30" of clearance between the existing 12" water main and the 24" storm pipe at the water main crossing on storm line 4. This crossing is just north of FI 2-5. The exterior collars have been installed on CI 4-1 and CI 4-2. The exterior collar on the west pipe at CI 4-4 has been installed. The north pipe collar and invert have been installed at FI 2-5. The west exterior pipe collar has been installed at CI 2-1. The concrete lids have been installed on FI 2-3, FI 2-4 and FI 2-6.

Informational

2 Brice Lawson 11/14/2017 1:36 PM

Redford installed CI 4-5 and the 15" HDPE storm pipe from CI 4-5 to CI 4-4. The invert and east exterior pipe collar has been installed at CI 4-4. The west pipe collar and invert were being installed.

Informational

3 Brice Lawson 11/15/2017 10:27 AM

Redford is cutting into the west side of the existing City FI on Storm line 1. The hole is being made to accept a 42" storm pipe.

Informational

4 Brice Lawson 11/16/2017 11:25 AM

Redford has installed the FI 1-1 and they are installing the 42" HDPE storm pipe between FI 1-1 and FI 1-2.

Informational

5 Brice Lawson 11/17/2017 11:53 AM

Redford has installed the 42" HDPE storm pipe on storm line 1 from approx. STA. 0+15 to approx. STA. 4+25. FI 1-1 has been installed. The outlet structure has been installed for the detention basin. The 36" HDPE pipe has been installed from the detention basin to FI 1-1. The 24" HDPE pipe has been installed from the outlet structure to the FES located in the detention basin.

The pipe collars have been installed on the three pipes at FI 1-1.

There is a conflict with the 42" storm pipe and an existing 12" water main on storm line 1 at approx. STA. 4+25. This is where the 12" water main crosses the proposed 42" storm pipe.

Redford was removing part of the floor and west wall of the existing FI located at STA. 0+00. This is being done to connect the proposed storm pipe and to install a new invert.

Informational

6 Brice Lawson 12/29/2017 10:19 AM

Redford has removed approx. 180' of 42" HDPE storm pipe that was installed west of field inlet 1-1. There is still approx. 2' of pipe connected to FI 1-1. Plywood has been installed in front of the open end of the pipe. This area has been backfilled to finish grade. The removal of this pipe was approved by Gene Williams in an email. The pipe is to be removed and grade the swale from the existing 30" culvert at Pryor Rd to the weir opening at FI 1-1.

Informational

7 Brice Lawson 01/04/2018 3:35 PM

Darrin with Redford informed me that the storm sewer installation is near completion for this site. I began a post construction inspection of the storm structures.

Informational

8 Brice Lawson 01/04/2018 3:38 PM

I continued the post construction inspections of the completed storm sewer structures.

Informational

9 Brice Lawson 01/08/2018 4:03 PM

I continued to perform post construction inspections of the storm sewer system that has been installed.

DEI-Sanitary Sewer Construction Inspection	Brice Lawson	Failed	Monday, January 08, 2018

Corrective Action Required

1 A main inspection has uncovered the following problems.

Brice Lawson 01/08/2018 11:49 AM

Existing City Sanitary Manhole #60-082 at tie-in:
Grout the sides of the pipe up to the springline of the new pipe inside the manhole. Make a smooth transition from the new pipe to the existing flowline with proper slope. Eliminate any vertical offset.

MH A-1: Remove wire mesh, debris and paint from the lid

MH A-2: Remove green paint from the lid

MH A-3: Remove green paint from the lid

MH A-4: Remove green paint from the lid

MH A-5: Remove green paint from lid. Backfill around the frame to achieve positive drainage away the manhole frame

MH A-6: Remove green paint from the lid. Complete the backfill of the manhole frame and achieve positive drainage away from the manhole frame

MH A-7: Backfill around the manhole frame and achieve positive drainage away from the frame. Remove green paint from the lid. Remove excess joint mastic at the adjustment ring joint.

MH B-1: Remove green paint from lid. Remove excess mastic from adjustmen ring joint. Properly backfill around manhole frame to achieve positive drainage away from the frame.

MH B-2: Remove debris from manhole floor, remove wire mesh, remove the vertical strip of what appears to be mastic from the barrel section, remove green paint from the lid

MH B-3: Remove the paint from the lid

MH E-1: Remove the excess mastic at the horizontal joints, remove debris from the manhole floor, remove the paint from the lid, raise the manhole so that the top of the lid is 2% to 4% above the back of curb

MH C-1: Remove paint from the lid, remove debris from invert bench, repair the top of the cone at the void that is allowing the mastic to fall out of the joint, complete grading around the frame to achieve positive drainage away from the frame

MH C-2: Remove the green paint from the lid

MH C-3: Remove green paint from the lid. Raise the manhole top so that the top is 2% to 4% above the back of the curb. Grade around the frame to achieve positive drainage away from the frame.

MH C-4: Remove debris from the manhole floor, remove paint from the lid. Raise the manhole lid so that it is 2% to 4% above the back of curb. FYI- a maximum of 1' of adjustment rings can be used.

MH D-1: The top of the lid does not appear to be installed at the elevation shown on the revised drawings. Make necessary corrections to get the top at the correct elevation. Replace manhole lid with the proper lid. Backfill around the frame to achieve positive drainage away from the frame.

MH D-2: Remove paint from the lid, fill the lift hole in the cone section behind the steps,

properly grade around frame to achieve positive drainage away from the frame.

Should the tracer boxes be attached to the post with something that is more durable than ductape

Tracer boxes should be installed on a post that extends atleast 3' above grade. The posts need to be painted green.

Lot 93-Repair tracer wire and tracer box

Lot 99-Raise the tracer box in elevation so it is easily seen

Lot 97- Move the tracer box so that it is above the service line and 1' from the property line

Lot 98-Repair broken tracer wire and retest the tracer wire in the presence of an inspector

Lot 78-repair the tracer box post

Lot 42-Attach the tracer wire to the tracer box

Lot 69-Install the tracer box on a post at least 3' above grade

Lot 48-Install the tracer box on a post at least 3' above grade

Lot 65-paint the tracer box post green

Lot 64-paint the tracer box post green

Lots 63, 62, 61, 60, 58, 57, 56, 55-paint the tracer box post green

Lot 54-repair/replace tracer box post and paint green

Comments: