
PUBLIC WORKS ENGINEERING DIVISION

Inspection Summary

Permit #: PRPWFC20162083, Public Works Infrastructure Permit - Commercial

WATER UTILITIES FACILITY

Address: 1200 SE HAMBLER RD, LEES SUMMIT, MO 64081

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:
PW-Roof Drain	Brice Lawson	Passed	Friday, March 10, 2017

Resolved

1 Brice Lawson 12/14/2016 3:32 PM

Both of the 6" roof drain lines were installed from MH 40B towards the building. The collars were poured on these lines at the manhole. These were not completely installed to the building.

Brice Lawson 02/28/2017 3:26 PM

The roof drains that connect to MH 40B have been connected to the building roof drains.

Informational

2 Brice Lawson 02/16/2017 12:07 PM

She Digs it installed the 6" HDPE roof drain from the connection at the building to 20E.

They installed 8" HDPE roof drain from 20D to the connection at the building.

Informational

3 Brice Lawson 03/10/2017 9:12 AM

On 3/9/17 She Digs It installed a 6" HDPE roof drain line from the building drain connection to GI 40C. The connection to the building drain was made with a strongback fernco. This roof drain was a change order and not shown on the approved plans. I spoke with Casey Williams and he let me know that this is to be a 6" pipe.

PW-Storm - Sewer Construction Inspection	Brice Lawson	Partial	Friday, March 10, 2017
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Informational

- 1 Brice Lawson 11/03/2016 3:58 PM
She Digs It began removing the wall on the existing CI-8479 in preparation to the connection to this CI.

Informational

- 2 Brice Lawson 11/07/2016 3:09 PM
She Digs It installed CI 10A and poured the invert and collar around the 38" by 60" concrete elliptical pipe.

CI 10A was butted up next to the existing CI 8479 and the joint between the two has been partially grouted. Four rebar pins were drilled into the base of the existing CI and poured in the invert of CI 10A.

Gene Williams and I discussed this connection to the existing CI today.

Informational

- 3 Brice Lawson 11/28/2016 10:56 AM
The exterior pipe collars have been installed at the HDPE storm pipe connections for MH 30C and GI 30D.

Corrective Action Required

- 4 Brice Lawson 11/29/2016 2:24 PM
The interior collars and the inverts were installed in GI 30E, GI 30D and MH30C.

The invert in MH 30C needs to be smoothed.

Corrective Action Required

- 5 Brice Lawson 11/30/2016 2:36 PM
The outfall structure 10C has been installed and the 48" HDPE pipe has been connected to it. The collar and invert have been installed.

The collar on the inside of the structure needs to be filled in.

Informational

- 6 Brice Lawson 12/02/2016 7:05 AM
On 12/1/16 MH-40B base was installed and the remaining 12" HDPE pipe towards the pond.

CI 30B base was installed. The remaining 30" HDPE pipe towards the pond was installed and connected to CI 30B. The remaining 30" HDPE pipe was installed towards MH 30C.

Corrective Action Required

- 7 Brice Lawson 12/02/2016 3:45 PM
She Digs It poured the interior pipe collars on CI 30B. They installed CI 31A and connected the 18" HDPE pipe from CI31A to CI30B.

They installed the invert, interior and exterior collars on MH40B

The lid for MH 30C has been installed but needs to be seated down on the base section.

Informational

8 Brice Lawson 12/12/2016 3:52 PM

The base for GI 40C was installed and the remainder of the 12" HDPE storm pipe was installed between GI 40C and MH 40B

Informational

9 Brice Lawson 12/30/2016 3:33 PM

She Digs It installed the 4" underdrain into the southeast side of GI 30D and sealed the hole that was made in the manhole.

They installed the top section and lid with grate on GI 40C.

Informational

10 Brice Lawson 01/12/2017 4:10 PM

She Digs It installed the remainder of the 36" HDPE storm pipe between 20A and 20B which was about 20'. The base for MH-20B has been installed.

Informational

11 Brice Lawson 01/13/2017 3:44 PM

She Digs It installed the cone section on MH 20B. They installed 20' of the 30" HDPE pipe towards CGI 20C. They installed collars on the connections of the 36" and 30" HDPE pipes at MH 20B and the invert in the MH 20B

Informational

12 Brice Lawson 01/17/2017 3:46 PM

She Digs It installed FES 50A and connected 20' of 42" HDPE storm pipe.

Informational

13 Brice Lawson 01/18/2017 2:51 PM

She Digs It installed the remainder of the 42" HDPE storm pipe between CI 50B and FES 50A. They installed CI 50B and installed approx 35' of 42" HDPE from CI 50B towards FI 50C. They are using 3/4" rock for bedding. They installed the interior and exterior collars and invert in CI50B.

Informational

14 Brice Lawson 01/19/2017 4:53 PM

She Digs It installed the remainder of the 42" HDPE storm pipe between CI 50B and FI 50C. They installed the invert and collars for FI 50C.

Informational

15 Brice Lawson 01/26/2017 11:37 AM

On 1/24/17 She Digs It installed JB 10B, installed the remainder of the 38" by 60" elliptical RCP pipe and connected this pipe to JB 10B. They installed the remainder of the 48" HDPE pipe between 10C and JB 10B and connected it to JB 10B. The collars were installed and the invert was poured.

Informational

16 Brice Lawson 01/26/2017 11:43 AM

On 1/25/17 She Digs It installed the installed the 18" culvert at the southwest corner of the site. They installed the dual 24" HDPE mitered pipes at the northwest corner of the site.

The space between the dual mitered pipes was not filled with flowable fill to the spring line as shown on the plans. Casey Williams is aware of this and plans to have the Design Engineer address this issue.

Informational

17 Brice Lawson 01/26/2017 11:52 AM

She Digs It installed CGI 20C, installed and connected the remainder of the 30" HDPE pipe between CGI 20C and MH 20B. They installed CGI 20D and installed the 30" HDPE from CGI 20D to CGI 20C. The collars were installed on the pipes at CGI 20C. The invert was installed in CGI 20C. An opening was in the north wall of CGI 20D to accept the roof drain.

Informational

18 Brice Lawson 01/27/2017 3:58 PM

She Digs It installed GI 21A and the 85' of 24" HDPE pipe from GI 21A to CGI 20D. They installed approx. 100' of 24" HDPE from CGI 20D towards CGI 20E.

Informational

19 Brice Lawson 01/31/2017 7:16 AM

She Digs It installed the invert and collar in GI 21A and the collars and invert in CGI 20D.

Corrective Action Required

20 Brice Lawson 02/01/2017 3:08 PM

The 18" culvert at the southwest corner of the site is proposed to be 25' in length. It has been installed and it measures approx. 20' in length.

-Make the proper adjustments to install this culvert according to the approved plan.-

The dual 24" mitered pipes have been installed at the northwest corner of the site without the space between them filled to the spring line with flowable fill as shown on the plan.

-Make the proper adjustments to these pipes to construct according to the approved plan.

Partial Correction

21 Brice Lawson 02/10/2017 7:18 AM

At Casey's request here is a list of items that need to be completed thus far pertaining to the storm sewer construction:

The dual pipes that were installed in the northwest corner were proposed to have flowable fill installed between them up to the spring line. The pipes were installed without flowable fill. This change has been approved by HDR and Gene Williams.

- The 20' of the 18" culvert in the southwest corner has been installed. The plans show this to be 25' long. Properly install the remaining 5'

- Complete the installation of the roof drains from 40B, 20D and 20E

- Complete the installation of the 4" under drains at the three remaining areas and the area

that was removed while installing the 4" sewer pipe going to the oil interceptor

Brice Lawson 02/10/2017 4:14 PM

Approx. 8' of the 4" underdrain has been repaired where the trench was dug for the sewer pipe going to the oil interceptor. This repair is located between MH-30C and GI-30D.

CI-10A:

- Seal the gap between the structure walls
- Seal the gap between the concrete lids
- Install the approved City of LS cover
- Complete the seal for the concrete lid to structure joint

JB-10B:

- Add Steps

Outfall Structure-10C:

- Add steps
- Seal the concrete lid to the structure
- Install the 3rd weir opening

Outlet-20A:

- Make proper repairs to the first pipe joint from the pond as this joint is separated

MH-20B:

- Add steps 16" O/C as needed
- Remove debris

CGI-20C:

- No inspection this structure is covered with fabric

CGI-20D:

- Install the roof drains from here to the building
- Grout the interior collar
- Seal the concrete lid to the structure
- Remove debris
- Install the grate per the plan

CGI-20E:

- Has not been installed

CI-30B:

- Move steps
- Replace the concrete lid so that the opening is over the relocated steps
- Install the approved City of LS cover

- Remove the 4" knockouts
- Seal the concrete lid to the structure

MH-30C:

- Properly seat/seal the concrete lid to the structure
- The concert lid does not match the thickness shown on the plans. Rebuild the lid to the proper thickness
- Properly install the casting and lid
- Grout the lift holes

GI-30D:

- Grout the lift holes
- Properly install the frame, grate and adj. ring
- Grout around the north interior collar and 4" under drain pipe
- The concrete lid is not 8" thick. Replace the lid with one that is built per the plan and properly seal

GI-30E:

- Install the frame and grate
- Seal the concrete lid to the structure
- Grout the lift holes
- The concert lid is not 8" thick. Replace this lid with one that is built per the plan and properly seal

CI-31A:

- Seal the concrete lid to the structure
- Remove the 4" knockouts
- Install the approved City of LS cover
- Grout the interior collar

MH-40B:

- Install the approved City of LS cover
- Install the frame
- Remove debris
- Grout the collars
- Verify that the elevation of the lid is correct

GI-40C:

- Remove the debris

FI-50C:

- Install the approved City of LS cover
- Remove the 4" knockouts
- Seal the concrete lid to the structure

Install line 60 with the flowable fill

Informational

22 Brice Lawson 02/16/2017 12:02 PM

She Digs It installed CGI structure 20E and the remainder of the 24" HDPE pipe between 20E and 20D. This was approx. 115' of 24" HDPE.

They installed the 6" HDPE roof drain from structure 20D to the connection at the building.

They installed 8" HDPE roof drain from 20D to the connection at the building.

Informational

23 Brice Lawson 02/28/2017 3:23 PM

On 2/24/17 She Digs It installed approx. 155' of the 4" underdrain on the south side of CI 30B and connected it to CI 30B.

Informational

24 Brice Lawson 03/01/2017 3:33 PM

She Digs It installed approx. 220' of the 4" underdrain with filter fabric along the north parking lot curb perimeter from where they left off to CI 31A.

Informational

25 Brice Lawson 03/10/2017 11:10 AM

On 3/9/17 She Digs It installed the remainder of the 4" underdrain between CGI 20D and CGI 20E and connected it to CGI 20E. They connected this to 20E because of a grade brake in the finish grade that is east of this structure. Casey Williams is aware of this.

They installed approx. 99' of the 4" underdrain west of CGI 20E and connected it to CGI 20E.

PW-Fire Line - Flush

Brice Lawson

Passed

Friday, March
10, 2017

Informational

1 Brice Lawson 03/10/2017 11:26 AM

The 6" fire line was flushed from the 8" water main to the 6" building riser and to all of the fire hydrants on the site. The 6" fire line was flushed to the building riser for 30 min. The 6" fire line was flushed to the straight set fire hydrant in the southwest corner of the site for 35 min.

PW-Fire Line - Hydrostatic
Test

Brice Lawson

Passed

Friday, March
10, 2017

Informational

1 Brice Lawson 03/10/2017 3:36 PM

She Digs It performed a hydrostatic test on the 6" fire line from the tie-in to the 8" water

main to the riser in the building. This test included the 6" fire line all the way to the fire hydrant located at the southwest corner of the site.

Comments:
