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**PUBLIC WORKS ENGINEERING DIVISION**

## Inspection Summary

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Permit #: PRPWFC20162083, Public Works Infrastructure Permit - Commercial

WATER UTILITIES FACILITY

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

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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.

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Inspection Item:

Inspection:	Inspector:	Outcome:	Date:
PW-Sanitary Sewer - Invert	Brice Lawson	Passed	Tuesday, May 30, 2017
PW-Storm - Outlet Structure	Brice Lawson	Passed	Tuesday, May 30, 2017
PW-Storm - Rip Rap	Brice Lawson	Passed	Tuesday, May 30, 2017
PW-Storm - Pipe	Brice Lawson	Passed	Tuesday, May 30, 2017

Informational

- 1 Brice Lawson 11/07/2016 3:05 PM  
She Digs It installed 40' of 38" by 60" concrete elliptical storm pipe from CI 10A towards the retention pond.

Informational

- 2 Brice Lawson 11/11/2016 6:46 AM  
On 11/10/16 She Digs It installed 56' of 38" by 60" concrete elliptical pipe between CI 10A and JB 10B. They also installed 60' of HDPE storm pipe from the location where 10C is to be located and laid it towards the JB 10B.

Informational

- 3 Brice Lawson 11/16/2016 6:56 AM  
On 11/15/16 She Digs It installed a 30" by 20' piece of HDPE storm pipe at the outlet 30A. They installed a 12" by 20' piece of HDPE storm pipe at 40A.

Informational

- 4 Brice Lawson 11/22/2016 6:42 AM  
She Digs It installed 100' of 30" HDPE storm pipe on storm line 30 from close to CI 30B towards MH 30C.

Informational

- 5 Brice Lawson 11/23/2016 3:06 PM  
The bases for manholes 30C and 30D have been installed. The remainder of the 30" HDPE pipe was installed from MH 30B to MH 30C. The 24" HDPE pipe was installed from MH 30C to MH 30D. Approx. 140' of 24" HDPE pipe was installed from MH 30D towards GI 30E.

PW-Storm - Pipe	Brice Lawson	Partial	Tuesday, May 30, 2017
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Informational

- 1 Brice Lawson 03/08/2017 11:27 AM  
She Digs It installed the dual 24" by 38" by 92' elliptical pipes located at the south entrance to this site. These pipes are class 4. The joints were put together with mastic. The plans called for mitered ends on the pipe but flared end sections were used instead of the mitered pipes. They filled the void between the two pipes with flowable fill up to the spring line. On the north end near the FES the flowable fill is approx. 6" thick for a length of approx. 8'. They plan to fill the remainder of this void up to the spring line in this 8' long area with compacted soil.

PW-Sanitary Sewer Construction Inspection	Brice Lawson	Partial	Tuesday, May 30, 2017
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Informational

- 1 Brice Lawson 11/10/2016 7:01 AM  
On 11/9/16 She Digs It installed 28' of 8" SDR 26 and encased 20' of it centered at the crossing of the elliptical concrete pipe.

Informational

- 2 Brice Lawson 11/15/2016 6:49 AM  
On 11/11/16 She Digs It installed approx 170' of 8" SDR26 sewer pipe between MH A1 and MH A2.

Informational

- 3 Brice Lawson 11/16/2016 6:48 AM  
On 11/11/16 She Digs It installed the base and barrel section for MH A1 and connected the 8" sewer pipe on the east side of MH.

Informational

- 4 Brice Lawson 11/16/2016 3:26 PM  
She Digs It installed the 8" SDR26 sanitary pipe from MH A2 to MH A3 and installed MH A3.

Informational

- 5 Brice Lawson 11/18/2016 3:01 PM

She Digs It installed approx. 60' of 4" SDR 26 from MH A3 towards the oil/water interceptor.

Informational

- 6 Brice Lawson 11/22/2016 6:45 AOn 11/21/16 She Digs It installed more of the 4" SDR 26 sewer lateral pipe between MH A3 and the oil/water interceptor. This pipe ends close to where the oil/water interceptor is proposed to be located.

Informational

- 7 Brice Lawson 12/07/2016 1:57 PM  
She Digs It installed MH-A4 and installed the 8" SDR26 sanitary pipe from MH-A3 to MH-A4. The joint between the cone and base was sealed with butyl joint sealant and the outside joint was wrapped. The lift holes were grouted in on MH-A3 and MH-A4. The utility marker tape was installed above the sewer pipe.

Informational

- 8 Brice Lawson 12/13/2016 3:03 PM  
She Digs It installed the 4" SDR 26 sewer service line from MH-A4 to the building service line. The connection was made with a Strongback Fernco. This connection is southeast of MH-A4

They installed the 4" SDR 26 sewer service line from MH-A4 towards the connection to the building southwest of MH-A4. This line is capped about 5' short of the building. They are waiting for the building wall to be poured.

Informational

- 9 Brice Lawson 12/15/2016 11:02 AM  
The inverts were installed in manholes A2, A3 and A4.

Informational

- 10 Brice Lawson 01/17/2017 3:30 PM  
She Digs It damaged the service wye connection to the 8" sanitary sewer main for I believe 1161 SE Hamblen Rd. This repair is located 16' behind the curb on the 8" sanitary main. A 8" by 6" wye, two strongback ferncos and a 6" coupler were installed to make the repair.

Corrective Action Required

- 11 Brice Lawson 02/10/2017 7:09 AM  
At Casey William's request here is a list of items that remain to be completed on the sanitary sewer construction:

Conect the 4" san. service to the building southwest of MH-A4

Air test the 8" sewer pipe between MH-A3 and MH-A4

San. MH-A1:

- Complete the invert at the connection to the private 8" pipe
- Remove debris from the MH
- Make the proper adjustments to the invert where it is collecting sediment

- The frame has not been sealed
- Verify that the lid is at the proper elevation

San. MH-A4:

- Install the proper cover

San. MH-A2:

- Install the proper cover

#### Informational

12 Brice Lawson 02/21/2017 3:45 PM

She Digs It damaged the 8" sanitary main while trying to locate the main. This repair is located at the point where the south end of the 24" by 38" mitered pipe will be installed at the south entrance to this property. They installed approx. 26" of SDR26 pipe with two strongback ferncos.

#### Informational

13 Brice Lawson 03/06/2017 4:04 PM

She Digs It encased approx. 100' of the existing 8" sewer line that is located at the future south entrance to this lot. They started this encasement at the north end and worked toward the south. For the first 40' they did not install the rebar as shown on the plan detail. Instead of installing bends on the corners of the transverse rebar they tied the 4 corners together with wire. This was approved by Jeff Thorn as he happened to be on site at the time that this came up. The next 60' of transverse rebar sections were added at 1' O/C. It appeared that the longitudinal rebar was installed per the plan. They used 5K KCMMB concrete mix and 1/2" rebar for the encasement.

#### Informational

14 Brice Lawson 03/07/2017 12:02 PM

She Digs It installed the remainder of the sanitary sewer encasement under the proposed south entrance. It appeared that the rebar was installed according to the plan. They used 5K KCMMB concrete mix. The length that was encased today was 27'. The total length of the encasement is 127'.

#### Informational

15 Brice Lawson 04/04/2017 10:10 AM

Water Utilities looked at the existing 8" sanitary sewer main that was encased in concrete below the south driveway approach and the new public sanitary sewer manhole located in the north driveway approach. Josh Roach sent an email stating that everything looked good.

#### Corrective Action Required

16 Brice Lawson 05/30/2017 4:44 PM

Repair the manhole frame on sanitary manhole A-1.

Inspection

30, 2017

Informational

- 1 They installed approximately 50 ft of 6" fire line and 50 ft of 1" domestic copper covered with rock and backfilled. They also did approximately 50 more feet up to the fire hydrant. They left that open and were not going to backfill. Steve Robbins 11/23/2016 7:31 AM

Informational

- 2 Brice Lawson 11/23/2016 3:22 PM  
She Digs It installed the 6" fire line from approx. STA. 6+00 almost to STA. 9+85.16. This is just north of the 2nd 22.5 bend fitting.

Informational

- 3 Brice Lawson 11/30/2016 12:26 PM  
I discussed with Gene Williams that the fire line and the domestic water line that goes to the building will be flip flopped. The 6" fire line will cross the 4" domestic line due to this change.

Informational

- 4 Brice Lawson 11/30/2016 12:28 PM  
She Digs It installed approx 45' of 6" C900 waterline at the T at the connection near the backflow vault.

Informational

- 5 Brice Lawson 12/22/2016 3:03 PM  
She Digs It installed approx. 100' of 6" C900 fire line towards the building from where they left off previously.

Informational

- 6 Brice Lawson 12/30/2016 3:12 PM  
She Digs It installed the rest of the 6" C900 fire line to the building including the riser in the building. They installed the thrust blocks on the T at the fire hydrant and on the fire hydrant that is on the east side of site.. They installed a thrust block at the connection to the irrigation connection to the 6" fire line. They installed a thrust block on the 90 degree bend at the building and a thrust block on the 90 degree bend at the base of the building riser.

Informational

- 7 Brice Lawson 01/26/2017 11:48 AM  
On 1/14/17 She Digs It removed the 6" gate valve and the short piece of C900 from the T fitting at the 8" main. They installed a 6" anchor spool and attached the 6" valve to the anchor spool. This was done due to the contractor wanting to test this section of water line.

Informational

- 8 Brice Lawson 02/14/2017 2:52 PM  
She Digs It installed approx. 100' of 6" C900 water pipe. This is the fire line. This line was installed from the 6" gate valve at the 8" water main to the backflow preventer and then approx. 20' past the backflow preventer. This line was connected to 6" C900 where they left off previously. Thrust blocks were installed on the tee fitting for the 4" domestic line and on the retainer gland that restrains the DI flange pipe on the north side of the vault. The lower 45 degree bend on the south side of the vault had a thrust block installed below it

with two epoxy coated rebars looped of the fitting and into the thrust block. A tracer wire has been installed. and the fittings have been wrapped in the polyetholene encasement.

Informational

9 Brice Lawson 02/15/2017 7:40 AM

She Digs It installed the 6" C900 on the south side of the backflow preventer. This pipe is approx. 4' from the curb inlet just south of the backflow vault. The minimum separation is suppose to be 5'.

I checked with Gene Williams and he stated that this 4' separation is acceptable.

Informational

10 Brice Lawson 04/04/2017 10:16 AM

Evan Dolan with Water Utilities let me know verbally that the new tracer wires located on the new public 12" water main and the new public 8" water main are locatable.

Corrective Action Required

11 Brice Lawson 05/30/2017 4:47 PM

Open the gate valve in the backflow vault when necessary.

PW-Water Line - Valve

Brice Lawson

Partial

Tuesday, May  
30, 2017

Informational

1 Brice Lawson 11/28/2016 11:40 AM

The 6" gate valves have been installed for the fire hydrants at STA. 6+50 and STA. 10+04.99.

Informational

2 Brice Lawson 02/15/2017 7:37 AM

I checked with Gene Williams to see if a 6" gate valve needs to be installed on the 6" fire line between the 4" domestic line and the backflow preventer. I explained that if in the future there is a problem with the backflow preventer that the domestic line would be taken out of service. He stated that the 6" gate valve does not need to be installed between the 4" domestic line and the backflow preventer.

Informational

3 Brice Lawson 02/17/2017 3:09 PM

She Digs It installed cast iron valve box on the new 8" valve that is installed where the north commercial drive entrance will be located.

They also installed a cast iron valve box on the existing 12" valve 3089 as this valve box will be located in the north commercial drive entrance.

Informational

4 Brice Lawson 02/22/2017 3:37 PM

She Digs It installed a 6" Mueller gate valve, cast iron valve box and DI sleeve near the 6" by 6" tee fitting that is located south of the doublecheck detector vault. This valve was installed approx. 3' from the tee fitting on the 6" fire line that feeds the two fire hydrants on the west side of the site.

Informational

5 Brice Lawson 04/24/2017 2:33 PM  
She Digs It replaced the broken cast iron valve box located in the north entrance that is on the new 8" valve.

Informational

6 Brice Lawson 05/17/2017 10:19 AM  
She Digs It replaced the valve box located just south of the vault in the north drive entrance. They installed the valve box on the 6" gate valve where the 6" line connects to the 8" mater main.

Informational

7 Brice Lawson 05/30/2017 4:56 PM  
All the valves have been installed. The valve boxes have been installed. The operating stems are within 3' of final grade and the tracer wires are accessible at the valve boxes.

PW-Storm - Sewer  
Construction Inspection

Brice Lawson

Partial

Tuesday, May  
30, 2017

Informational

1 Brice Lawson 11/03/2016 3:58 PM  
She Digs It began removeing the wall on the existing CI-8479 in preperation 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.

Informational

4 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

5 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.

Brice Lawson 05/30/2017 3:58 PM

Resolved

Informational

6 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

7 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

8 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

9 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

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

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

Informational

11 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

12 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

13 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

14 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

15 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

16 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

17 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.

Partial Correction

18 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'

Brice Lawson 05/17/2017 10:39 AM

Resolved

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

Brice Lawson 05/17/2017 10:40 AM

Resolved

- 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 05/17/2017 10:40 AM  
Resolved

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  
Resolved

JB-10B:  
- Add Steps  
Brice Lawson 05/30/2017 4:00 PM  
Resolved

Outfall Structure-10C:  
- Add steps  
- Seal the concrete lid to the structure  
- Install the 3rd weir opening  
Brice Lawson 05/30/2017 4:00 PM  
Resolved

Outlet-20A:  
- Make proper repairs to the first pipe joint from the pond as this joint is separated  
Brice Lawson 05/30/2017 4:01 PM  
Resolved

MH-20B:  
- Add steps 16" O/C as needed  
- Remove debris  
Resolved

CGI-20C:  
- No inspection this structure is covered with fabric  
Resolved

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

Brice Lawson 05/30/2017 4:02 PM

Resolved

CGI-20E:

- Has not been installed

Resolved

CI-30B:

- Move steps - Resolved
- Replace the concrete lid so that the opening is over the relocated steps - Resolved
- Install the approved City of LS cover - Resolved
- Remove the 4" knockouts - Resolved
- Seal the concrete lid to the structure - Resolved
- Grout throat inside CI
- Install 4" drain holes in 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

Brice Lawson 05/30/2017 4:06 PM

Resolved

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

Resolved

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

Resolved

CI-31A:

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

Brice Lawson 05/30/2017 4:19 PM

Resolved

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

Resolved

GI-40C:

- Remove the debris

Brice Lawson 05/30/2017 4:37 PM

Resolved

FI-50C:

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

Install line 60 with the flowable fill

Resolved

Informational

19 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

20 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

21 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

22 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.

Resolved

23 It appears that the joints in CGI-20C, CGI-20D and CGI-20E have been sealed with grout.

CGI-20D - Tighten the interior bolts on the curb frame.

Brice Lawson 05/30/2017 4:38 PM

Resolved

PW-Sanitary Sewer  
Construction Inspection

Brice Lawson

Partial

Tuesday, May  
30, 2017

Informational

1 Brice Lawson 11/10/2016 7:01 AM  
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Informational

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Informational

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Informational

8 Brice Lawson 12/13/2016 3:03 PM

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They installed the 4" SDR 26 sewer service line from MH-A4 towards the connection to the building southwest of MH-A4. This line is capped about 5' short of the building. They are waiting for the building wall to be poured.

Informational

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The inverts were installed in manholes A2, A3 and A4.

Informational

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She Digs It damaged the service wye connection to the 8" sanitary sewer main for I believe 1161 SE Hamblen Rd. This repair is located 16' behind the curb on the 8" sanitary main. A 8" by 6" wye, two strongback ferncos and a 6" coupler were installed to make the repair.

Partial Correction

11 Brice Lawson 02/10/2017 7:09 AM

At Casey William's request here is a list of items that remain to be completed on the sanitary sewer construction:

Conect the 4" san. service to the building southwest of MH-A4

Brice Lawson 05/30/2017 4:52 PM

Resolved

Air test the 8" sewer pipe between MH-A3 and MH-A4

Brice Lawson 05/30/2017 4:52 PM

Resolved

San. MH-A1:

- Complete the invert at the connection to the private 8" pipe - Resolved
- Remove debris from the MH - Resolved
- Make the proper adjustments to the invert where it is collecting sediment - Resolved
- The frame has not been sealed
- Verify that the lid is at the proper elevation

San. MH-A4:

- Install the proper cover

Brice Lawson 05/30/2017 4:53 PM

Resolved

San. MH-A2:

- Install the proper cover

Brice Lawson 05/30/2017 4:53 PM

Resolved

Informational

12 Brice Lawson 02/21/2017 3:45 PM

She Digs It damaged the 8" sanitary main while trying to locate the main. This repair is located at the point where the south end of the 24" by 38" mitered pipe will be installed at the south entrance to this property. They installed approx. 26" of SDR26 pipe with two strongback ferncos.

Informational

13 Brice Lawson 03/06/2017 4:04 PM

She Digs It encased approx. 100' of the existing 8" sewer line that is located at the future south entrance to this lot. They started this encasement at the north end and worked toward the south. For the first 40' they did not install the rebar as shown on the plan detail. Instead of installing bends on the corners of the transverse rebar they tied the 4 corners together with wire. This was approved by Jeff Thorn as he happened to be on site at the time that this came up. The next 60' of transverse rebar sections were added at 1' O/C. It appeared that the longitudinal rebar was installed per the plan. They used 5K KCMMB concrete mix and 1/2" rebar for the encasement.

Informational

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**Comments:**

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