

**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:**

<b>Inspection:</b>	<b>Inspector:</b>	<b>Outcome:</b>	<b>Date:</b>
PW-Driveway Inspection	Brice Lawson	Partial	Friday, June 23, 2017

**Informational**

1 Brice Lawson 04/11/2017 3:26 PM  
Epic Concrete has formed the south driveway approach. They have installed grade stakes and it appears that they will be able to install 6" of concrete. The contractor and myself checked the grade stakes where the sidewalk will go through the driveway. These stakes were set to have approx. 1.5% cross slope for the sidewalk.

**Informational**

2 Brice Lawson 04/10/2017 1:55 PM  
Casey Williams requested an inspection of the base rock for the south driveway approach. The type 5 base rock appeared to be well compacted and stable. I dug holes 4 different areas of the approach to check the thickness of the type 5 rock. It appeared that there was at least an 8" thickness of the type 5 base rock.

The east concrete storm pipe that is under the driveway approach will not have the 8" of type 5 over it. This was approved by Gene Williams. This driveway approach pavement is designed to be 6" thick. I checked with Gene Williams about this pavement thickness being 6" instead of our standard 8" and he said it would be fine.

**Resolved**

3 Brice Lawson 04/12/2017 9:30 AM  
Epic Concrete has installed the south concrete driveway approach. The curb and driveway approach have been installed monolithically. It appears to be to the dimensions shown on the plans. They used KCM MB 4K concrete mix and sprayed the approach with white curing compound.

The cross slope is over 2% at the north ADA sidewalk ramp opening. Make necessary

adjustments to fix the cross slope issue.

Brice Lawson 05/17/2017 10:26 AM

A repair has been made to repair the cross slope issue, but the cross slope is over 2%. Make necessary repairs.

Brice Lawson 06/23/2017 11:29 AM

The cross slope issue has been resolved at the north curb in front of the ADA opening.

#### Informational

4 Brice Lawson 04/24/2017 2:35 PM

Epic Concrete has the north driveway approach formed. This will be poured monolithically. 5/8" dowels have been installed at the existing curbs. It appears the rock base has been compacted and is stable. It appears that they will be able to install at least 7" of concrete. Approx. 18" of the existing road was removed across the front of the approach due to loose/broken existing pavement. This pavement was removed to a depth of what appeared to be solid base asphalt. This area will be brought up to grade with 4000 psi KCMMB concrete.

#### Partial Correction

5 Brice Lawson 05/01/2017 1:52 PM

Epic Concrete has installed the north driveway approach using 4K concrete mix. Repair the areas of the flow line that are not draining properly. Repair the area around the new sanitary manhole lid. Repair the areas in the driveway approach where the sidewalk cross slope exceeds the maximum 2% cross slope.

Brice Lawson 05/15/2017 1:52 PM

Epic Concrete removed an area of the approach that is approx. 6' by 16' located where the sidewalk runs through this driveway. They used a limestone concrete mix instead of the required KCMMB mix. They removed this 6' by 16' patch and poured it again using 5000 psi KCMMB concrete mix. They tied this patch to the existing approach with 5/8" epoxy coated dowels on 2' centers.

Brice Lawson 06/23/2017 11:30 AM

Epic Concrete replaced two areas in the north driveway approach. The west area is approx. 11' by 12' with a 5' by 5' area attached where the sidewalk goes through the driveway. This repair was to fix a low spot around the new sanitary lid that was too low.

The other area is approx. 11' by 14'. This area is in the southeast area of the approach. This repair was done to fix a drainage issue in the flow line of the driveway approach. This area has a small section of the curb poured in it that did not get finished. The 11' by 14' patch was drove through and there are tire marks in the approach.

Replace the 11' by 14' repair patch.

Any repairs should be surrounded with cones or something to notify others not to drive

through this area until the concrete has reached its proper strength.

PW-Fire Line Construction      Brice Lawson      Passed      Friday, June  
Inspection      23, 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 apprx. 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.

PW-Sidewalk Inspection

Brice Lawson

Partial

Friday, June  
23, 2017

Informational

1 Brice Lawson 05/31/2017 4:08 PM

Epic Concrete installed approx. 50' of sidewalk just south of the north driveway approach. The base rock was compacted and the forms were set to achieve the proper cross slope.

Corrective Action Required

2 Brice Lawson 06/14/2017 3:12 PM

Epic Concrete set the forms for approx. 304' of 5' sidewalk between the two driveway approaches. It appeared that the sidewalk was set to the elevations shown on the grade stakes. It appeared that they installed a minimum of 4" of compacted aggregate base. The sidewalk has been poured and sprayed with white curing compound. The contraction joints and the cross slope were spot checked and appeared to be acceptable.

Brice Lawson 06/23/2017 11:53 AM

Epic Concrete installed the sidewalk on the north side of the north driveway approach. It appears that it was installed to the property line as the property corner was staked.

All of the isolation joints in the sidewalk need to have the wood strip removed and sealed with sealant per the plans.

Corrective Action Required

3 Brice Lawson 06/23/2017 11:55 AM

The ada and sidewalk on the south side of the south entrance has not been installed. Casey let me know that Jeff Thorn is looking to escrow this section of sidewalk.

PW-ADA Inspection

Brice Lawson

Partial

Friday, June  
23, 2017

Corrective Action Required

1 Brice Lawson 06/23/2017 11:49 AM

Epic Concrete has installed the two ada ramps at the north driveway approach and the one ada ramp on the north side of the south approach.

These ada ramps were doweled into the curb with #4 epoxy coated bars.

The ada ramp on the north side of the north approach needs to be replace due to the cross slope being over 2%.

**Comments:**

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