

**PUBLIC WORKS ENGINEERING DIVISION**

## Inspection Summary

Permit #: PRPWFC20173801, Public Works Infrastructure Permit - Commercial

Residences at Echelon

Address: 3500 SW HOLLYWOOD DR, LEES SUMMIT, MO 64082

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-Storm - Sewer Construction Inspection	Matt Munger	Partial	Wednesday, March 14, 2018

Informational

- 1 Matt Munger 01/30/2018 10:40 AM While on site I observed Kat workers using a laser to align the storm pipe. They had started installing pipe from CI 1-2 that had been installed on 12/21/17. I observed an adequate amount of gravel below the pipe and on top of the storm pipe. I observed Daniel from Kat using pipe dope on the spigot ends of each section of pipe that was installed. They hadn't installed storm box 2-1. Kat had started on installing storm pipe between CI 1-2 to CI 1-3.

Informational

- 2 Matt Munger 01/30/2018 1:48 PM I observed the Kat workers using a laser to align the pipe from CI 2-1 to CI 4-1. There was adequate amount of gravel below the pipe and storm boxes. They covered the pipe to the top of the trench with gravel then capped over the gravel with dirt. Daniel said they were going to backfill with gravel then cap with dirt until they cut in the road for the curb inlets that crossed over the roadway.

Note: I had pointed out to Daniel earlier in the morning the storm pipe that they had installed on 12/21/17 that ran from CI 1-2 to where the end section 1-1 was going to be put in: it didn't appear there was on top of the pipe. He stated that when they installed the flared end section he will make sure there is gravel installed.

Informational

- 3 Matt Munger 01/31/2018 10:09 AM The concrete collars and invert for the following curb inlets had been poured prior to my arrival: CI 1-2 Invert and all collars, CI 1-3 outside collar on the west side of the inlet, CI 2-1 north and east outside collars were poured, CI 4-1 outside collar on the west side of the inlet. The collars were smooth and there was enough concrete used to support the pipe. The concrete ticket I gathered from Daniel showed it

being a 4000 psi mix. The invert on CI 1-2 was smooth in all directions.

Informational

- 4 Matt Munger 02/02/2018 11:13 AM When I arrived on site, storm pipe from CI 2-1, 2-2 and 2-3 was installed prior to my arrival. They are going to pour the collars later once they get the public line in. The areas that had not been backfilled I observed an adequate amount of gravel above and below the pipe. I observed Daniel using a laser to get the correct elevation shots for CI 2-4. They were digging from 2-3 to 2-4 to be able to install CI 2-4 and storm pipe and the trench for CI 3-1 to CI 2-2.

Informational

- 5 Matt Munger 02/02/2018 1:35 PM CI 2-4 had been installed prior to my arrival. They had poured the collars and inverts for the following storm boxes before I arrived: CI 2-1, CI 4-1, CI 2-2, CI 3-1, CI 2-3 and CI 2-4. CI 4-2 the collar was poured but not the invert. The inverts that I saw appeared to be smooth and properly formed. The areas around the storm boxes that were not backfilled where the pipe and box meets I could tell there was an adequate amount of gravel above and below the pipe.

On 2/1/18 I had asked Justin to save the concrete tickets or make a copy for our records and make note of where the concrete was used on the tickets. I have only received one concrete ticket so far.

Informational

- 6 Matt Munger 02/14/2018 9:42 AM  
KAT workers had installed Private CI 7-4, 7-5, and 7-6 prior to my arrival. I did observe an adequate amount of gravel on top of the pipe and what I could see below the pipe. They were running a string line to CI 7-7. I did see them using pipe dope and they were pushing the ends of the pipe to seat the spigot end into the bell end.

Informational

- 7 Matt Munger 02/14/2018 3:39 PM  
When I arrived CI 7-6, 7-7, and 12-1 had been installed. Collars were being poured while I was on site. KC Test Lab was on site testing the lifts. I did observe the KAT crew backfill in lifts. The areas around the collars that had not been backfilled had plenty of gravel above the pipe. I spoke with Daniel about getting all concrete tickets and flowable fill tickets. TJ was on site and gave me copies of the concrete tickets.

Informational

- 8 Matt Munger 02/15/2018 10:28 AM  
I observed KAT backfilling in lifts between CI 7-5 and CI 7-6. KAT had installed storm pipe from CI 7-7 to CI 7-8. I observed an adequate amount of gravel above the pipe. They hadn't poured the collars for the boxes on CI 7-8.

Informational

- 9 Matt Munger 02/15/2018 3:04 PM  
Kat crew was pouring collars for CI 7-7 and had everything in place for CI 7-8. KC Test Lab was on site doing compactions tests in between backfill lifts.

Informational

- 10 Matt Munger 03/12/2018 8:40 AM  
KAT was digging the trench for the storm pipe for CI 1-4. The plan is to get CI 1-5 in today.

Informational

11 Matt Munger 03/12/2018 11:08 AM

KAT had installed the storm pipe from CI 1-3 to CI 1-4. Justin from KAT said they would be working on the 8 line later today.

Informational

12 Matt Munger 03/12/2018 2:12 PM

KAT had installed CI 8-2, there was an adequate amount of gravel below the box.

Informational

13 Matt Munger 03/13/2018 10:15 AM

KAT had installed storm pipe from 8-2 to 8-3 and had the box for 8-3 set in place. I did observe an adequate amount of gravel below and on top of the pipe. I did observe KAT using a laser from 8-2 to 8-3 to get proper alignment.

Informational

14 Matt Munger 03/13/2018 1:43 PM

KAT was cutting into the existing storm box on the SE corner of the property and tied in the roof drains from the church. I spoke with TJ about putting in a new storm box and he stated they would only be replacing the lid.

Informational

15 Matt Munger 03/14/2018 9:05 AM

KAT had installed the storm pipe from CI 1-4 to CI 1-5 and had the CI 1-5 set and in place. Brett from KAT said they would have the concrete for the collars by the end of the day. I showed Brett the detail for the flared end section so he would know what exactly needed to be done when installing it.

I had sent an email to TJ Watreas in regards to the old field inlet on the SE side of the property that was being re-used when the plans stated to install a new field inlet. TJ called me later in the morning and stated he would get a hold of Engineering Solutions to come up with a solution.

Note: KC Test Lab was on site.

**Comments:**

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