



Lexington-Fayette Urban County Government  
DEPARTMENT OF ENVIRONMENTAL QUALITY

Jim Gray  
Mayor

Cheryl Taylor  
Commissioner

To: Hillard Newman, P.E., Engineering Section Manager, Division of Engineering  
Wallace Rice, Engineering Technician Principal, Division of Engineering  
Ron St.Clair, Engineering Bonds Officer, Division of Engineering

From: Chris Begley, Engineering Technician Senior, WWC&CS, Division of Water Quality

Cc: Rodney Chervus, P.E., WWC&CS Manager, Division of Water Quality

Date: June 28, 2011  
~~April 28, 2014~~  
~~February 11, 2016~~  
**REVIEW DATE: MARCH 17, 2021**

RE: New Development 3 Year Re-Inspect  
Subdivision: Bluegrass Aspendale Infrastructure  
Unit/Phase: Phase 3, Sections 4A, 4B, 4C, 4D, 5

The Division of Water Quality (DWQ) has completed review of the submittals for the project referenced above. We are providing the following list of items, for sanitary sewer systems only, to be completed or corrected prior to Final Inspection. We request that you include these with comments from the Division of Engineering.

Material Reviewed: CCTV performed by LFUCG

**Manhole F-1 (TB3\_892A)**

- ❖ The top step in the manhole is too high.
  - ◆ Correct the deficiency, re-vacuum test the Manhole and submit Test Results and Field Verification to my attention at DWQ

~~Line Segment P-1 to Ex MH (TB3\_872 to TB3\_394)~~

- ~~❖ At 3.2 ft downstream of Manhole P-1 (TB3\_872) there is a material change. **Removed per C. Prater.**~~
  - ~~◆ Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ~~❖ At 11.1 ft. downstream of Manhole P-1 (TB3\_872) there is a circumferential fracture. **Removed per C. Prater**~~
  - ~~◆ Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ~~❖ At 16.3 ft downstream of Manhole P-1 (TB3\_872) there is a complete pipe main failure. **Removed per C. Prater**~~
  - ~~◆ Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ~~❖ At 54.6 ft upstream of Ex Manhole (TB3\_394) there is a circumferential fracture. **Removed per C. Prater**~~
  - ~~◆ Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~

- ❖ At 69.4 ft upstream of Ex Manhole (TB3\_394) there is a circumferential fracture. **Removed per C. Prater**
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ❖ At 88.0 ft upstream of Ex Manhole (TB3\_394) there is a complete pipe-main failure. **Removed per C. Prater**
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~

#### Manhole Existing (TB3\_394)

- ❖ ~~The manhole is brick and needs to be replaced with a new manhole.~~
  - ◆ ~~Correct the deficiency, re-vacuum test the Manhole and submit Test Results and Field Verification to my attention at DWQ~~ **Removed per C. Prater**

#### Line Segment Ex Drop Manhole P-1 (TB3\_399-TB3\_872)

- ❖ Material changes at 2.0 ft, 42.8 ft, 46.8 ft, 51.0 ft, 95.7 ft, 97.2 ft, 98.3 ft, 99.9 ft, 155.7 ft and 178.9 ft downstream from Ex Drop Manhole (TB3\_399). **Removed per C. Prater**
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ❖ Roots appear at 18.7 ft, 24.9 ft, 28.0, 52.0 and 55.0 ft downstream from Ex Drop Manhole (TB3\_399). **Removed per C. Prater**
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ❖ At 46.8 ft downstream from Ex Drop Manhole (TB3\_399) a lateral to the right is 50% blocked and needs cleaning. **Removed per C. Prater**
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ❖ At 57.6 ft downstream from Ex Drop Manhole (TB3\_399) there is a circumferential fracture. **Removed per C. Prater**
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ❖ At 58.6 ft downstream from Ex Drop Manhole (TB3\_399) a lateral is 100% blocked and needs cleaning. **Removed per C. Prater**
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ❖ Beginning at ~58.6' downstream of from Ex Drop Manhole (TB3\_399) and extending to ~64' there appears to be a pipe sag **Removed per C. Prater**
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ❖ At 58.6 ft downstream from Ex Drop Manhole (TB3\_399) a lateral is 100% blocked and needs cleaning. **Removed per C. Prater**
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ❖ At 166.2 ft downstream from Ex Drop Manhole (TB3\_399) a lateral is 100% blocked and needs cleaning. **Removed per C. Prater**
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~

#### Manhole A-2 (TB3\_891)

- ❖ The top step in the manhole is too high.
  - ◆ Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ
- ❖ The casting needs to be resealed.

- ◆ Correct the deficiency, re-vacuum test the Manhole and submit Test Results and Field Verification to my attention at DWQ

#### Manhole A-1 (TB3\_890)

- ❖ 6" lateral inside manhole has dropped and needs repaired and sealed.
- ❖ Remove top step
  - ◆ Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ

#### Line Segment A-3 to A-2 (TB3\_892 to TB3\_891) LINE IS CLEAN, NO FURTHER WORK NEEDED

- ~~❖ Pipe main is 10% blocked at ~9 ft and needs cleaning.~~
  - ~~◆ Correct the deficiency, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~

#### Manhole A-2 (TB3\_891)

- ❖ The top step in the manhole is too high.
  - ◆ Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ
- ❖ The manhole casting needs resealed.
  - ◆ Correct the deficiency, re-vacuum test the Manhole and submit Test Results and Field Verification to my attention at DWQ

#### Manhole A-2 to A-1 (TB3\_891 to TB3\_890) LINE IS CLEAN, NO FURTHER WORK NEEDED

- ~~❖ This main line needs cleaned due to debris~~
  - ~~◆ Correct the deficiency, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~

#### Manhole A-2A (TB3\_891A)

- ❖ This Manhole is full of debris.
  - ◆ Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ

#### Line Segment A-2 to A-2A (TB3\_891 to TB3\_891A) LINE IS CLEAN, NO FURTHER WORK NEEDED

- ❖ The pipe main has debris blocking it at 41 ft and needs cleaning.
  - ◆ Correct the deficiency, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ

#### Line Segment Ex Drop Manhole to A-1 (TB3\_399-TB3\_890) LINE IS CLEAN, NO FURTHER WORK NEEDED

- ~~❖ At 9.6 ft upstream from Ex Drop Manhole (TB3\_399) a lateral to the left is 100% blocked and needs cleaning.~~
  - ~~◆ Correct the deficiency, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~
- ~~❖ This whole line segment is full of FOGs and needs jetted (cleaned).~~
  - ~~◆ Correct the deficiency, re test the Line Segment, re CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ~~

#### Manhole P-2 (TB3\_873)

- ❖ This Manhole is full of debris.
  - ◆ Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ

#### Manhole P-2 to P-1 (TB3\_873 to TB3\_872) LINE CLEAR, MULTIPLE SAGS

- ❖ This main line needs cleaned due to debris (possible sags)

- ◆ Correct the deficiency, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ

#### Manhole P-1 (TB3\_872)

- ❖ The top step in the manhole is too high.
  - ◆ Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ

#### Manhole R-2 (TB3\_875)

- ❖ The top step in the manhole is too high.
  - ◆ Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ

#### Manhole R-3 (TB3\_876)

- ❖ The top step in the manhole is too high.
  - ◆ Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ

#### Manhole R-4 (TB3\_877)

- ❖ The Casting is 12" below finished grade.
  - ◆ Correct the Deficiency, re-vacuum test the Manhole, submit Test Result Sheets and Field Verification to my attention at DWQ

#### Line Segment R-3 to R-2 (TB3\_876 to TB3\_875)

- ❖ ~~Beginning at ~96' downstream of Manhole R-3 (TB3\_876) and extending to ~106' there appears to be a pipe sag (Corrected 2/11/2016)~~
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (Corrected 2/11/2016)~~
- ❖ ~~The lateral at 39.6 ft downstream of Manhole R-3 (TB3\_876) appears to have a sag at its connection to the main (Corrected 2/11/2016)~~
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (Corrected 2/11/2016)~~
- ❖ ~~The lateral at 95.1 ft downstream of Manhole R-3 (TB3\_876) appears to have a FOGs and needs to be cleaned (Corrected 2/11/2016)~~
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (Corrected 2/11/2016)~~

#### Line Segment R-4 to R-5 (TB3\_877 to TB3\_878)

- ❖ ~~Remove top step~~
- ❖ ~~This whole line segment is full of debris and needs jetted (cleaned).~~
  - ◆ ~~Clean the line, re-CCTV and submit the results to my attention at DWQ (Corrected 2/11/2016)~~

#### Line Segment P-2 to P-3 (TB3\_873 to TB3\_880)

- ❖ ~~This whole line segment is full of debris and needs jetted (cleaned).~~
  - ◆ ~~Clean the line, re-CCTV and submit the results to my attention at DWQ (Corrected 2/11/2016)~~

#### Manhole P-2 (TB3\_873)

- ❖ ~~This Manhole is full of debris~~
  - ◆ ~~Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ~~

#### Manhole P-3 (TB3\_880)

- ❖ The casting is off center

- ◆ Correct the deficiency, re-vacuum test the Manhole and submit Test Results and Field Verification to my attention at DWQ
- ❖ The top step in the manhole is too high.
  - ◆ Correct the deficiency, re-vacuum test the Manhole and submit Test Results and Field Verification to my attention at DWQ
- ❖ This Manhole is Buried
  - ◆ Correct the deficiency, re-vacuum test the Manhole and submit Test Results and Field Verification to my attention at DWQ

#### Manhole P-7 (TB3\_887A)

- ❖ The casting is off center
  - ◆ Correct the deficiency, re-vacuum test the Manhole and submit Test Results and Field Verification to my attention at DWQ
- ❖ The top step in the manhole is too high.
  - ◆ Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ

#### Line Segment P-4 to T-1 (TB3\_881 to TB3\_882)

- ❖ At ~24.4' upstream of Manhole P-4 (TB3\_881) the tap located at 561 E Fourth is full of debris and needs cleaning (**Corrected 2/11/2016**)
  - ◆ ~~Correct~~ the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (**Corrected 2/11/2016**)
- ❖ At ~239.4' upstream of Manhole P-4 (TB3\_881) the tap located at 432 Shropshire has dropped on builder's side of easement (**Corrected 2/11/2016**)
  - ◆ ~~Correct~~ the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (**Corrected 2/11/2016**)

#### **Line Segment P-6 to V-1 (TB3\_887 to TB3\_888) LINE IS CLEAR / SAGS STILL EXIST**

- ❖ At ~85.1' upstream of Manhole P-6 (TB3\_887) the tap located at 408 Race is full of debris and needs cleaning (**Corrected 2/11/2016**)
  - ◆ ~~Correct~~ the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (**Corrected 2/11/2016**)
- ❖ At ~145.1' upstream of Manhole P-6 (TB3\_887) the tap located at 416 Race is full of debris and needs cleaning (**Corrected 2/11/2016**)
  - ◆ ~~Correct~~ the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (**Corrected 2/11/2016**)
- ❖ Beginning at ~267.5' upstream of Manhole P-6 (TB3\_887) and extending to ~345' there appears to be a pipe sag
  - ◆ Correct the deficiency, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ

#### Line Segment T-1 to T-2 (TB3\_882 to TB3\_883)

- ❖ This whole line segment is full of debris and needs jetted (cleaned).
  - ◆ Clean the line, re-CCTV and submit the results to my attention at DWQ (**Corrected 2/11/2016**)
- ❖ At ~210.2' upstream of Manhole T-1 (TB3\_882) the tap located at 465 Julia has debris and needs cleaning (**Corrected 2/11/2016**)
  - ◆ ~~Correct~~ the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (**Corrected 2/11/2016**)
- ❖ At ~266.9' upstream of Manhole T-1 (TB3\_882) the tap located at 473 Julia is full of debris and needs cleaning (**Corrected 2/11/2016**)
  - ◆ ~~Correct~~ the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (**Corrected 2/11/2016**)

## Manhole P-6 (TB3\_887)

- ❖ ~~The steps are not in correct alignment, as required by LFUCG Standard Drawings:~~
  - ~~No. 103, Manhole, Frames, Covers and Steps, which states, “Manhole Steps Shall Be Installed in a Vertical Line and Shall Comply with OSHA Standards in All Respects”; and (Corrected 2/11/2016)~~
  - ~~No. 211, Typical Standard Precast Concrete Manhole, which states, “Manhole Steps Shall be Aligned with Straight Side of Concentric Cone Section, and Aligned Over the Outlet Pipe”; (Corrected 2/11/2016)~~
- ◆ ~~Correct the Deficiency, re-vacuum test the Manhole, submit pictures, Field Verification and Test Result Sheets of the repairs to my attention at DWQ (Corrected 2/11/2016)~~

## Line Segment V-1 to V-2 (TB3\_888 to TB3\_889)

- ❖ ~~At ~99.8' upstream of Manhole V-1 (TB3\_888) the tap located at 449 Shropshire has dropped on builder's side of easement (Corrected 2/11/2016)~~
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (Corrected 2/11/2016)~~
- ❖ ~~At ~159.8' upstream of Manhole V-1 (TB3\_888) the tap located at 457 Shropshire has dropped on builder's side of easement (Corrected 2/11/2016)~~
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (Corrected 2/11/2016)~~
- ❖ ~~At ~228.7' upstream of Manhole V-1 (TB3\_888) the pipe is deformed at 10 o'clock (Corrected 2/11/2016)~~
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (Corrected 2/11/2016)~~
- ❖ ~~At ~340.7' upstream of Manhole V-1 (TB3\_888) the line has debris and needs to be cleaned~~
  - ◆ ~~Correct the deficiency, re-test the Line Segment, re-CCTV, and submit Test Results, Field Verification, and CCTV records to my attention at DWQ (Corrected 2/11/2016)~~

**Manhole V-1to V-2 (TB3\_889 to TB3\_888) LINE IS CLEAR / NO FURTHER WORK NEEDED**

- ❖ This line needs cleaned
- ❖ The flow channel is full of debris and needs cleaning
  - ◆ Correct the deficiency, submit Test Results and Field Verification to my attention at DWQ

## Manhole T-3 (TB3\_884)

- ❖ The flow channel is full of debris and needs cleaning
- ❖ Remove the top step
  - ◆ Correct the deficiency, and submit Test Results and Field Verification to my attention at DWQ

## Manhole U-1 (TB3\_885)

- ❖ The Casting is 3" below finished grade.
  - ◆ Correct the Deficiency, re-vacuum test the Manhole, submit Test Result Sheets and Field Verification to my attention at DWQ
- ❖ Remove top step
  - ◆ Correct the deficiency, and submit Field Verification to my attention at DWQ