



Bolling Brook Sewer Riser Inspections - Building 3242

A Sanitary Sewer Evaluation Study is a technological method of scoring piping defects within sewer infrastructure. This top down method incorporates: surveys, pipe inspections, and evaluation concepts into a turnkey, professional service delivering detailed, conditional assessments for any major collection system. Our analytical process digitally overlays pipe locations with each pipes' conditional data points to provide a concise, quantifiable survey that are scored relative to the risk of the infrastructure failing. This information serves as an invaluable tool for assessing and planning short and long-term infrastructure rehabilitation projects.

Defect Scoring Legend 1. Excellent: pipe has not begun to deteriorate 2. Good: minor defects observed 3. Moderately poor: deterioration becoming evident with maintenance required in near future 4. Very poor: will become Grade 5 in the near future 5. Immediate attention required: structural failure is imminent or has occurred. NOTE: SOME INSPECTIONS TERMINATED DUE TO CONSTRUCTIONAL, OPERATIONAL, AND/OR MAINTENANCE DEFECTS.

Sewer Riser A

Pipe diameter & material: 2" DWV

Length of inspection: 45' 11"

Direction of survey: downstream

Defect score: 3 - heavy surface corrosion and general debris observed.



9/8/2015 12:09:47 PM

0' 0"

Start inspection. Access Sewer Riser.



9/8/2015 12:10:21 PM

4' 6"

2" Connection. SCP - surface corrosion present - continuous.



9/8/2015 12:11:22 PM

14' 0"

2" Connection



9/8/2015 12:12:45 PM

23' 8"

90 Degree bend.



9/8/2015 12:13:09 PM

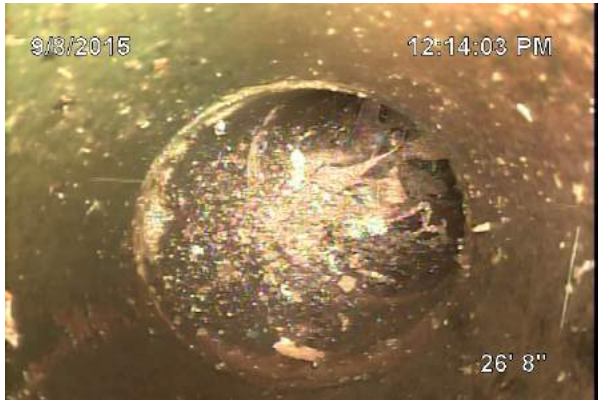
25' 10"

90 degree bend.



9/8/2015 12:13:26 PM
2" Connection

26' 1"



9/8/2015 12:14:03 PM
90 Degree bend. DNZ - general foreign debris in pipe.

26' 8"



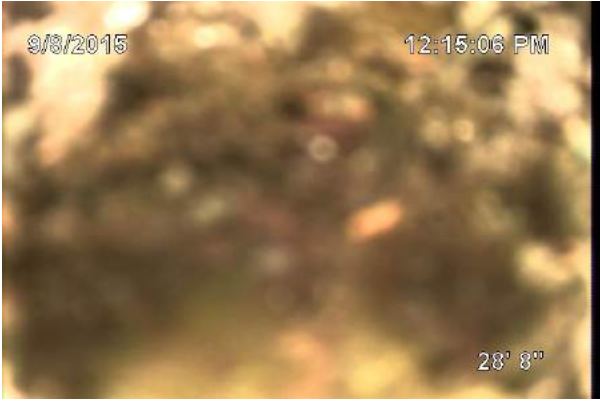
9/8/2015 12:14:24 PM
90 degree bend

27' 2"



9/8/2015 12:14:43 PM
90 degree bend

28' 8"



9/8/2015 12:15:07 PM 28' 8"

End inspection. MSA - survey abandoned due to number of bends preventing further progress. End continuous surface corrosion (SCP).

Sewer Riser B

Pipe diameter & material: 2" DWV

Length of inspection: 28' 11"

Direction of survey: downstream

Defect score: 2. The inspection was cut short due to number and proximity of bends. The inspected section did not exhibit any defects that would require attention in the foreseeable future.



9/8/2015 12:23:44 PM 0' 0"

Start inspection. Access Sewer Riser. SCP - surface corrosion (scaling) - continuous.



9/8/2015 12:24:28 PM 5' 7"

2" connection



9/8/2015 12:25:32 PM
2" connection

13' 10"



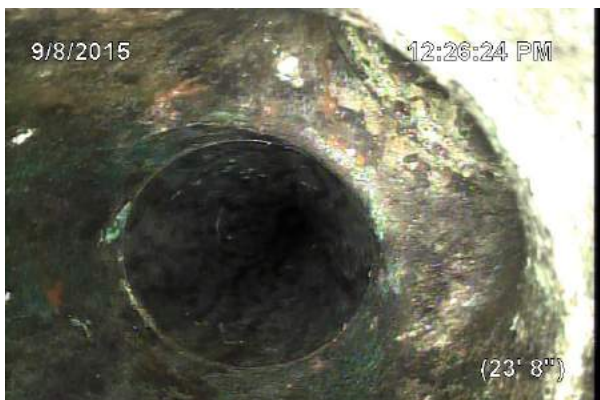
9/8/2015 12:26:08 PM
90 degree bend

21' 11"



9/8/2015 12:26:16 PM
90 degree bend

23' 0"



9/8/2015 12:26:24 PM
2" connection

23' 8"



9/8/2015 12:26:47 PM
90 degree bend.

27' 11"



9/8/2015 12:27:19 PM

28' 8"

End inspection. MSA - miscellaneous survey abandoned due to number of bends and heavy DNF - silt and debris - in the pipe.. End continuous surface corrosion (SCP).

Sewer Riser D

Pipe diameter & material: 4" cast iron

Length of inspection: 40' 11"

Direction of survey: downstream

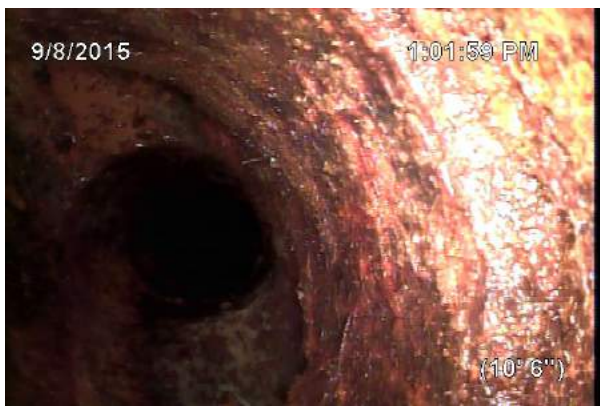
Defect score: 3 - heavy scaling and grease deposits observed.



9/8/2015 1:01:24 PM

0' 0"

Start inspection. Access Sewer Riser. SCP - surface corrosion (scaling) - continuous.



9/8/2015 1:02:00 PM
4" Combo Connection

10' 6"



9/8/2015 1:03:11 PM
4" Combo Connection

20' 0"



9/8/2015 1:03:44 PM
DAGS - grease deposits - continuous.

21' 9"



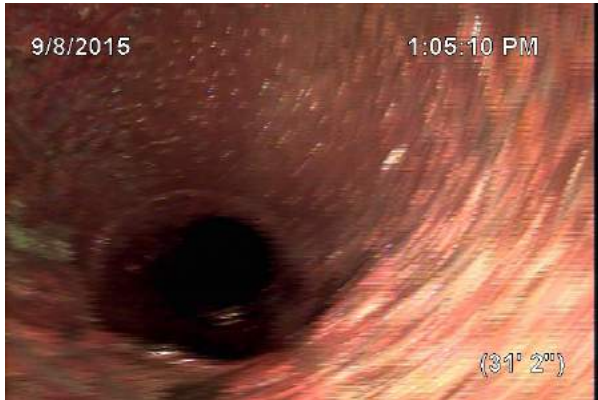
9/8/2015 1:04:36 PM
3" connection

26' 11"



9/8/2015 1:04:56 PM
4" Combo Connection

29' 2"



9/8/2015 1:05:10 PM
2 - 22.5 degree bends

31' 2"



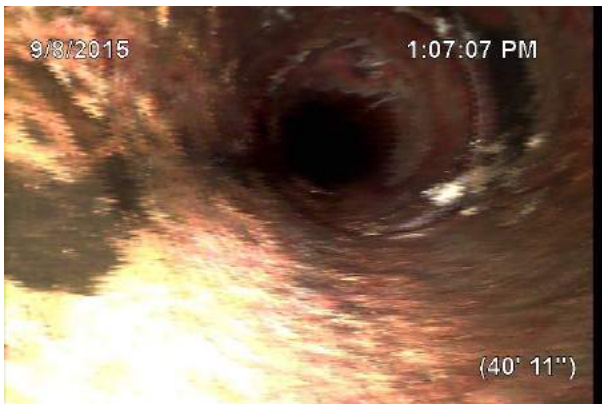
9/8/2015 1:05:30 PM
Cleanout

32' 6"



9/8/2015 1:06:23 PM
Sweeping 90 degree bend.

38' 2"



9/8/2015 1:07:08 PM

40' 11"

End inspection. MSA - survey abandoned at bottom of vertical riser. End continuous scale (SCP). End continuous grease deposits (DAGS).

Sewer Riser E

Pipe size & material: 2" DWV

Length of inspection: 41' 8"

Direction of survey: downstream

Defect score: 5 - very heavy corrosion and a hole observed.



9/8/2015 4:03:43 PM

0' 0"

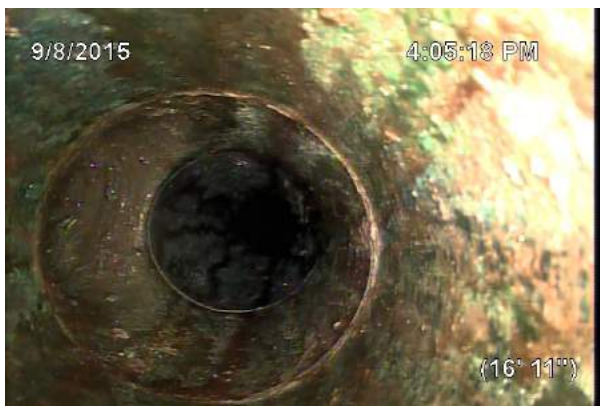
Start inspection. Access Sewer Riser. SCP - surface corrosion (scaling) - continuous.



9/8/2015 4:04:16 PM

7' 8"

2" connection



9/8/2015 4:05:19 PM
2" connection

16' 11"



9/8/2015 4:06:04 PM
PRR - point repair

21' 1"



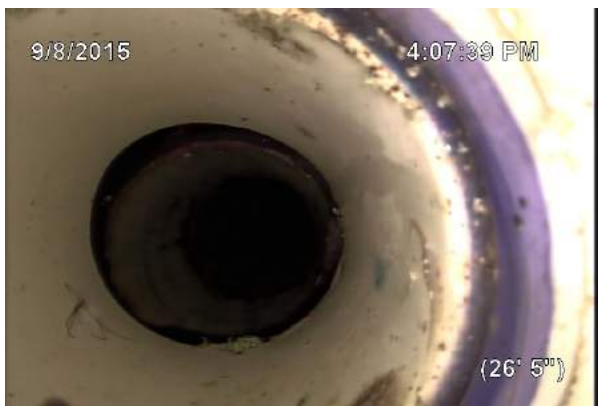
9/8/2015 4:07:11 PM
MMC - material change to PVC

25' 9"



9/8/2015 4:07:19 PM
2" connection

26' 3"



9/8/2015 4:07:40 PM
MMC - material change to DWV

26' 5"



9/8/2015 4:08:32 PM
SRI - Surface Roughness Increasing

33' 2"



9/8/2015 4:09:07 PM
90 degree bend.

36' 4"



9/8/2015 4:09:24 PM
45 degree bend

37' 0"



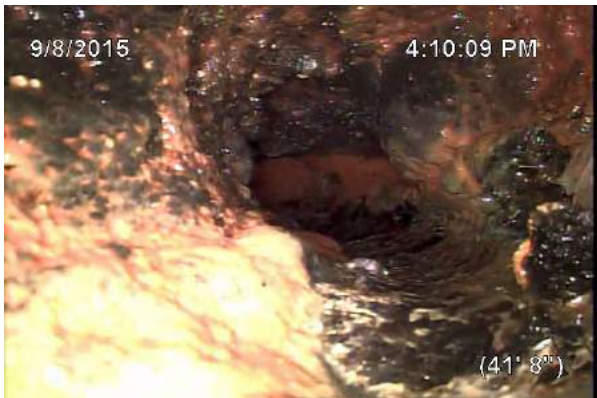
9/8/2015 4:09:26 PM
H - hole @ 1 o'clock.

37' 0"



9/8/2015 4:09:40 PM
90 degree bend. DAGS - grease deposits.

37' 10"



9/8/2015 4:10:08 PM
End inspection. MSA - miscellaneous survey abandoned due to heavy grease deposits (over 30% of diameter) preventing further progress. End continuous surface corrosion (SCP).

41' 8"

Sewer Riser I

Pipe diameter & material: 2" DWV

Length of inspection: 38' 7"

Direction of survey: downstream

Defect score: 5 - pipe exhibits heavy corrosion and 100% blockage at 34'.



9/8/2015 3:24:33 PM

0' 0"

Start inspection. Access Sewer Riser. SCP - surface corrosion (scaling) - continuous.



9/8/2015 3:25:10 PM

6' 0"

2" connection



9/8/2015 3:26:17 PM

15' 2"

2" connection



9/8/2015 3:27:24 PM

23' 9"

90 degree bend



9/8/2015 3:27:37 PM
90 degree bend

24' 4"



9/8/2015 3:27:45 PM
2" connection

24' 8"



9/8/2015 3:28:15 PM
90 degree bend

29' 0"



9/8/2015 3:28:49 PM
90 degree bend. SRI - surface roughness increasing.

33' 4"



9/8/2015 3:29:28 PM 34' 6"
100% blocked. End inspection. MSA - survey abandoned due to complete blockage. End continuous surface corrosion (SCP).

Sewer Riser F

Pipe size and material: 4" cast iron

Length of inspection: 38' 2"

Direction of inspection: downstream

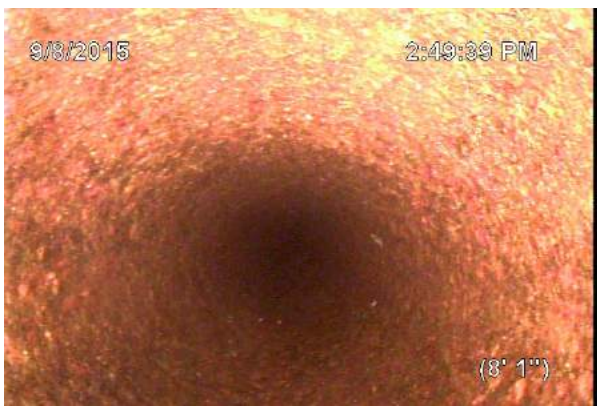
Defect score: 4 - very heavy scale and grease observed throughout pipe.



9/8/2015 2:49:16 PM 0' -1"
Start inspection. Access Sewer Riser.



9/8/2015 2:49:32 PM 5' 8"
2" connection



9/8/2015 2:49:40 PM

8' 1"

SCP - surface corrosion (scaling) - continuous.



9/8/2015 2:49:53 PM

10' 10"

Combo connection. 3" connection @ 11 o'clock. 3" connection @ 5 o'clock.



9/8/2015 2:50:11 PM

14' 6"

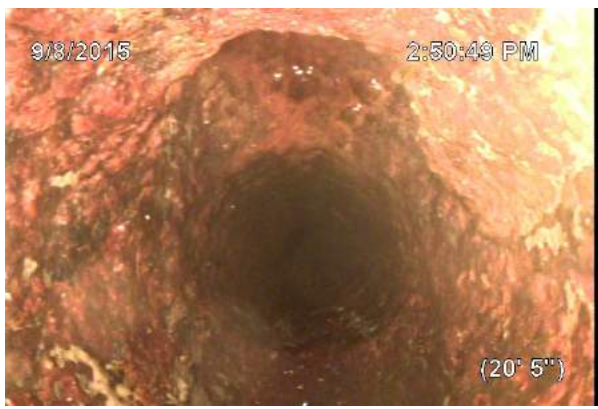
DAR - ragging deposits.



9/8/2015 2:50:45 PM

20' 3"

SRI - surface roughness increasing.



9/8/2015 2:50:50 PM
4" Combo Connection

20' 5"



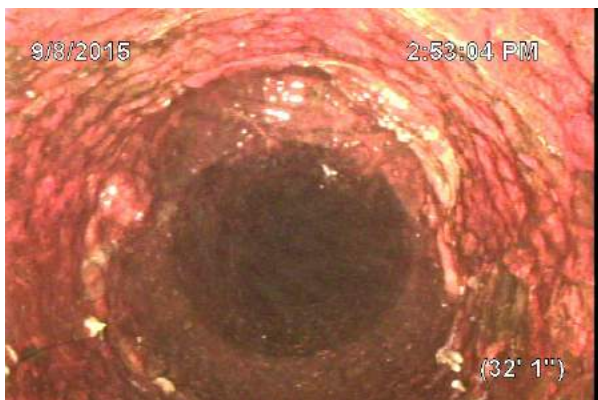
9/8/2015 2:52:17 PM
3" connection

26' 7"



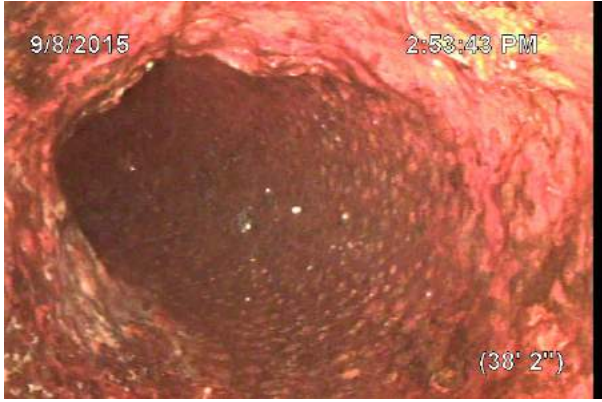
9/8/2015 2:52:36 PM
3" Combo Connection

29' 3"



9/8/2015 2:53:04 PM
3" connection

32' 1"



9/8/2015 2:53:43 PM

38' 2"

Sweeping 90 degree bend. End inspection. MSA - survey abandoned at bottom of vertical riser. End continuous scale (SCP).

Sewer Riser J

Pipe diameter & material: 2" DWV

Length of inspection: 46' 3"

Direction of survey: downstream

Defect score: 3 - heavy corrosion observed along with sealant leaking in at joint of point repair.



9/8/2015 3:36:07 PM

0' 0"

Start inspection. Access Sewer Riser. SCP - surface corrosion (scaling) - continuous.



9/8/2015 3:36:43 PM

6' 0"

2" connection



9/8/2015 3:38:13 PM

15' 0"

2" connection. Diameter transition from 2" to 1.5".



9/8/2015 3:39:38 PM

25' 0"

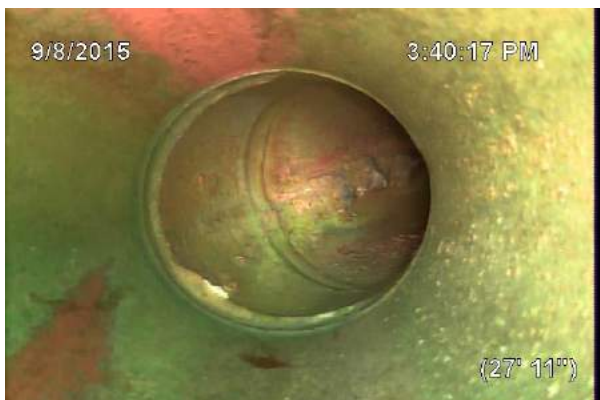
90 degree bend.



9/8/2015 3:40:01 PM

26' 5"

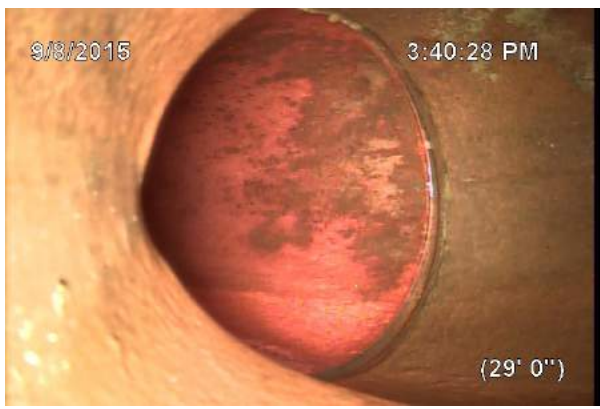
90 degree bend.



9/8/2015 3:40:17 PM

27' 11"

90 degree bend.



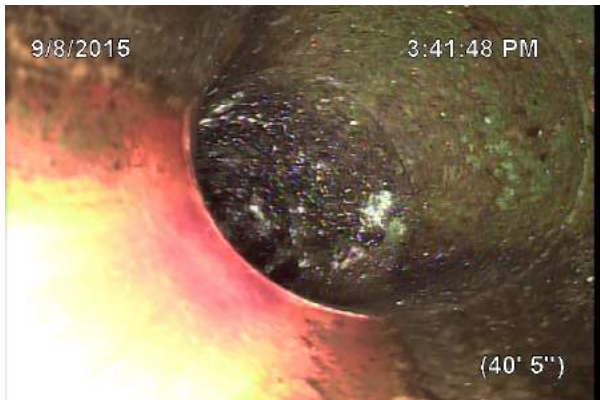
9/8/2015 3:40:29 PM
90 degree bend.

29' 0"



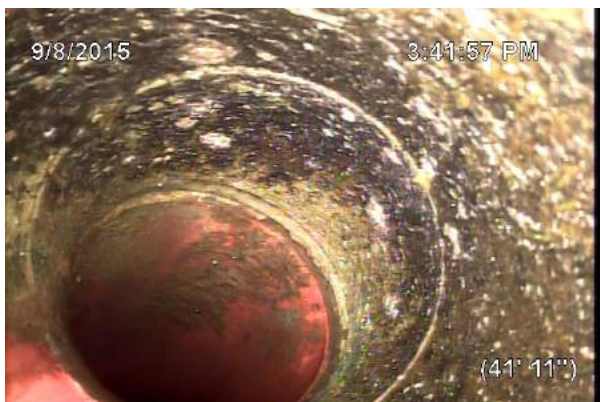
9/8/2015 3:40:41 PM
90 degree bend.

29' 2"



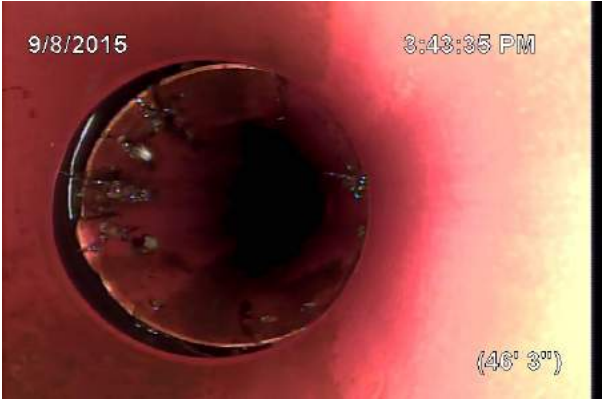
9/8/2015 3:41:49 PM
90 degree bend.

40' 5"



9/8/2015 3:41:58 PM
90 degree bend.

41' 11"



9/8/2015 3:43:35 PM 46' 3"
ISSR - intruding sealing material. End inspection. MSA - survey abandoned due to number of bends. End continuous surface corrosion (SCP).

Sewer Riser C

Pipe diameter & material: 3" PVC

Length of inspection: 29' 7"

Direction of survey: downstream

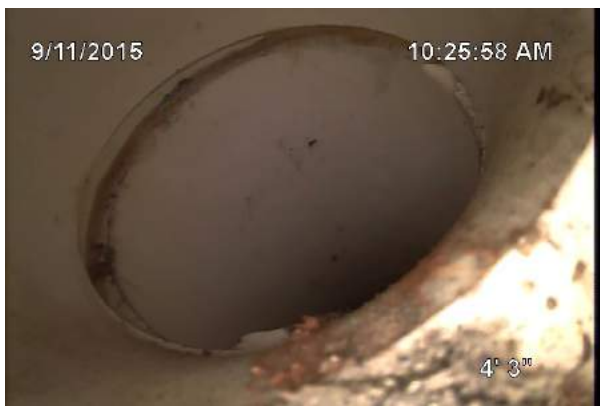
Defect score: 2 - only observed defect is 30% offset to horizontal slab pipe at wye connection.



9/11/2015 10:25:33 AM 2' 2"
Start inspection. Access Sewer Riser.

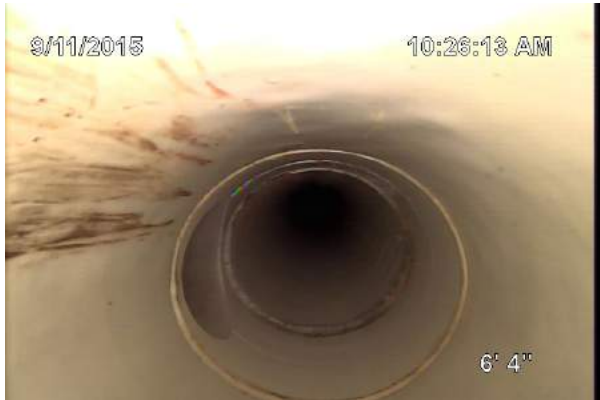


9/11/2015 10:25:46 AM 3' 2"
45 degree bend



9/11/2015 10:25:58 AM
45 degree bend

4' 3"



9/11/2015 10:26:13 AM
2" connection

6' 4"



9/11/2015 10:26:38 AM
2" connection

10' 2"



9/11/2015 10:27:36 AM
2" connection

19' 7"



9/11/2015 10:28:29 AM
3" connection

27' 0"



9/11/2015 10:28:50 AM
2" connection

28' 3"



9/11/2015 10:29:12 AM
45 degree bend

28' 11"



9/11/2015 10:29:27 AM
Offset joint. End inspection. AEP - end of pipe at horizontal wye connection.

29' 7"

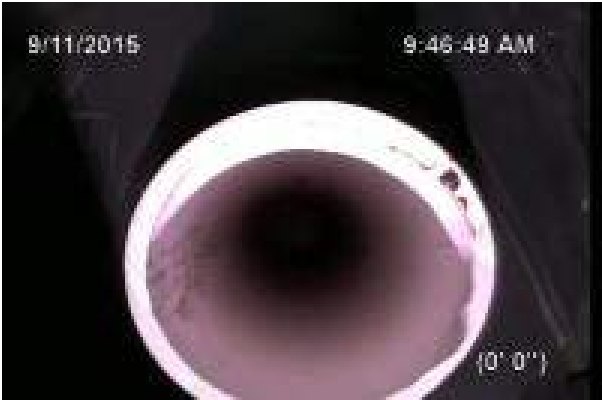
Sewer Riser G

Pipe diameter & material: 3" PVC

Length of inspection: 27' 1"

Direction of survey: downstream

Defect score: 1 - no defects observed.



9/11/2015 9:46:49 AM
Start inspection. Access Sewer Riser.

0' 0"



9/11/2015 9:46:57 AM
90 degree bend

0' 4"



9/11/2015 9:47:07 AM
90 degree bend

1' 11"



9/11/2015 9:47:22 AM
2" connection

4' 9"



9/11/2015 9:47:37 AM
90 degree bend

6' 9"



9/11/2015 9:47:48 AM
90 degree bend

7' 3"



9/11/2015 9:48:06 AM
2" connection

8' 1"



9/11/2015 9:49:03 AM
2" connection

17' 9"



9/11/2015 9:49:37 AM
Cleanout

24' 5"



9/11/2015 9:49:50 AM
2" connection

25' 8"



9/11/2015 9:49:56 AM
90 degree bend

26' 4"



9/11/2015 9:50:29 AM
End inspection. AEP - end of pipe at wye connection.

27' 1"

Sewer Riser H

Pipe diameter & material: 3" PVC

Length of inspection: 44' 5"

Direction of survey: downstream

Defect score: 1 - no defects observed.



9/11/2015 10:00:43 AM
Start inspection. Access Sewer Riser.

0' 0"



9/11/2015 10:01:18 AM
2" connection

5' 0"



9/11/2015 10:01:44 AM
2" connection

8' 5"



9/11/2015 10:02:26 AM
2" connection

17' 9"



9/11/2015 10:02:54 AM
2" connection

27' 2"



9/11/2015 10:03:21 AM
2" connection

35' 4"



9/11/2015 10:03:28 AM
90 degree bend

36' 5"



9/11/2015 10:04:11 AM
Cleanout

40' 5"



9/11/2015 10:04:18 AM
90 degree bend

41' 8"



9/11/2015 10:04:29 AM
45 degree bend

43' 7"



9/11/2015 10:04:40 AM
End inspection. AEP - end of pipe at wye connection.

44' 5"

Sewer Riser K

Pipe diameter & material: 3" PVC

Length of inspection: 44' 10"

Direction of survey: downstream

Defect score: 2 - observed offset joint in wye connection to slab horizontal.



9/11/2015 10:18:13 AM
Start inspection. Access Sewer Riser.

0' 1"



9/11/2015 10:18:36 AM
2" connection

5' 5"



9/11/2015 10:18:57 AM
2" connection

8' 0"



9/11/2015 10:19:48 AM
2" connection

17' 5"



9/11/2015 10:20:20 AM
2" connection

26' 8"



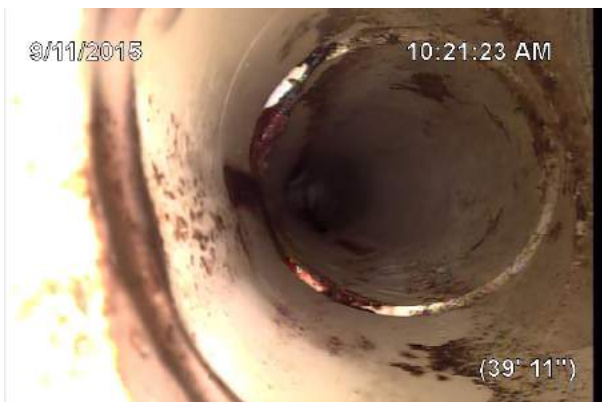
9/11/2015 10:20:57 AM
2" connection

35' 8"



9/11/2015 10:21:03 AM
90 degree bend

36' 8"



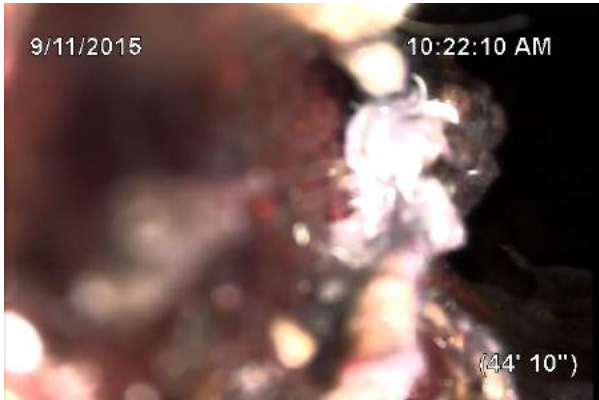
9/11/2015 10:21:23 AM
Diameter transition from 3" to 4".

39' 11"



9/11/2015 10:21:38 AM
90 degree bend

41' 10"



9/11/2015 10:22:11 AM

44' 10"

JOM - offset joint. End inspection. AEP - end of pipe at wye connection
in slab horizontal.