

# Profile/Photo Observation Report



Date:	11/03/2021	Weather:		Coding:	PACP 7.0
Pipe Length (ft):	291.0	Owner:	City of Hobart	Pre Clean:	Heavy Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-405-068-002
Customer:	City of Hobart	Clean Date:	10/29/2021	Shape:	C

Street:	South Wabash Street	Flow Control:	Not Controlled
City:	Hobart, IN	Year Renewed:	
Location:	Alley	Tape/Media #:	
Purpose:	Routine Assessment	Dia/Height:	12"
Use:	Sanitary Sewage Pipe	Material:	VCP
Drain Area:		Lining:	None
Category:	NA		
Comment:			
Location Details:		Direction of Survey:	Upstream
US MH:	M-404-002	DS MH:	M-405-068
		Total Length Surveyed (ft):	236.1

O&M Index:	2.00	O&M Quick:	3124	O&M Rating:	12.00
Structural Index:	2.54	Structural Quick:	5342	Structural Rating:	104.00
Overall Index:	2.47	Overall Quick:	5342	Overall Rating:	116.00

Position	Code	Observation	Video (sec)	Grade
.0	AMH	Manhole	1	NA
.0	MWL	Miscellaneous Water Level	67	NA
.0	CM	Crack Multiple	120	S 3
1.7	CL	Crack Longitudinal	186	S 2
1.7	CL	Crack Longitudinal	206	S 2
4.5	CL	Crack Longitudinal	283	S 2
7.7	CM(S01)	Crack Multiple	386	S 3
10.3	JOM	Joint Offset Medium	417	S 3
22.4	FS	Fracture Spiral	513	S 3
22.5	JOM	Joint Offset Medium	527	S 3
25.8	MMC	Miscellaneous Material Change	583	NA
25.8	CM(F01)	Crack Multiple	598	S 3
46.7	RFJ	Roots Fine Joint	691	M 1
52.7	DAR	Deposits Attached Ragging	735	M 2
59.0	MMC	Miscellaneous Material Change	793	NA
60.3	TF	Tap Factory	818	NA
61.0	MMC	Miscellaneous Material Change	863	NA
61.0	MWL	Miscellaneous Water Level	876	NA
67.7	MWLS(S02)	Miscellaneous Water Level Sag	910	S 2

85.9	TB	Tap Break-in/Hammer	1026	NA
89.6	MWLS(F02)	Miscellaneous Water Level Sag	1054	S 2
115.9	MWLS(S03)	Miscellaneous Water Level Sag	1143	S 2
122.5	TBI	Tap Break-in Intruding	1242	M 2
146.6	MWLS(F03)	Miscellaneous Water Level Sag	1576	S 2
156.8	MWLS(S04)	Miscellaneous Water Level Sag	1620	S 2
163.3	B	Broken	1691	S 4
163.9	TBI	Tap Break-in Intruding	1714	M 2
172.2	MMC	Miscellaneous Material Change	1805	NA
173.4	TFD	Tap Factory Defective	1840	M 3
174.4	MMC	Miscellaneous Material Change	1905	NA
177.3	MMC	Miscellaneous Material Change	1977	NA
190.3	MWLS(F04)	Miscellaneous Water Level Sag	2055	S 2
195.4	FM(S05)	Fracture Multiple	2136	S 4
197.6	MWLS(S06)	Miscellaneous Water Level Sag	2171	S 2
200.0	SSS	Surface Damage Surface Spalling	2207	S 2
200.4	TBI	Tap Break-in Intruding	2231	M 2
201.4	FM(F05)	Fracture Multiple	2635	S 4
216.5	MMC	Miscellaneous Material Change	2410	NA
225.6	MMC	Miscellaneous Material Change	2464	NA
225.6	MWLS(F06)	Miscellaneous Water Level Sag	2501	S 2
227.4	SMW	Surface Damage Missing Wall	2593	S 5
233.8	SMW	Surface Damage Missing Wall	2839	S 5
235.3	JOMD	Joint Offset Medium Defective	2911	S 3
235.4	BSV	Broken Soil Visible	2977	S 5
236.1	MSC	Miscellaneous Shape/Size Change	3014	NA
236.1	MSA	Miscellaneous Survey Abandoned	3024	NA

M-404-002



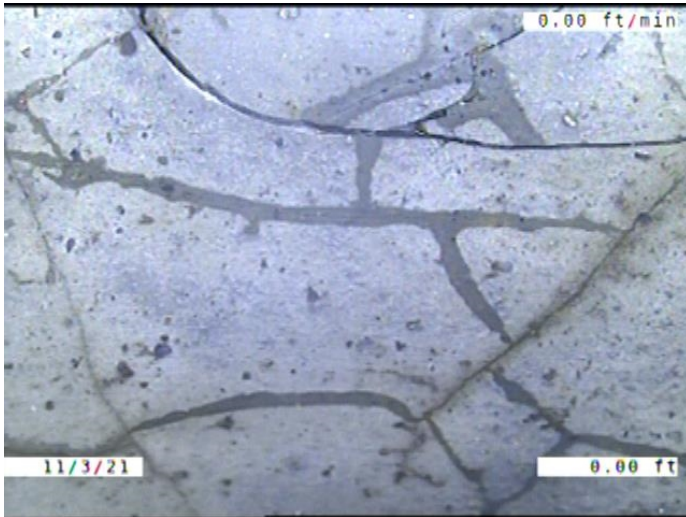
Code: **AMH**  
Description: **Manhole**

Distance (ft): **.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **M-405-068**



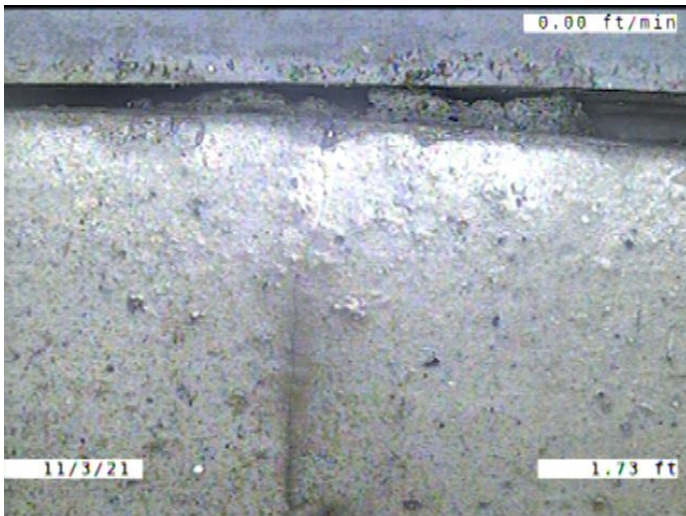
Code: **MWL**  
Description: **Miscellaneous Water Level**

Distance (ft): **.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **15.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:



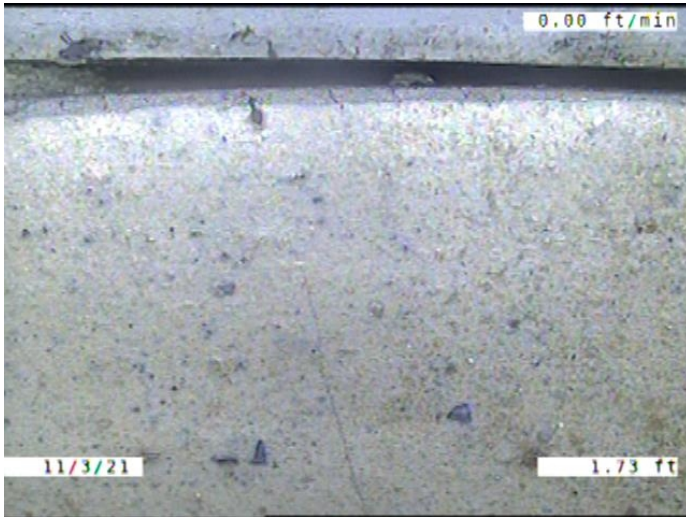
Code: **CM**  
Description: **Crack Multiple**

Distance (ft): **.0**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:



Code: **CL**  
Description: **Crack Longitudinal**

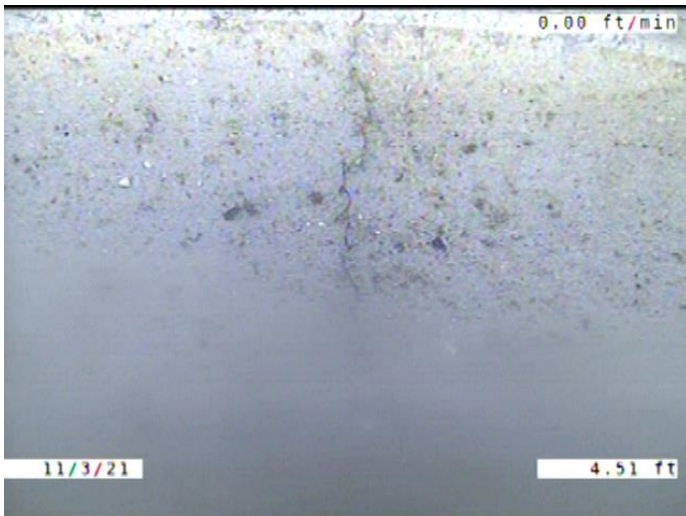
Distance (ft): **1.7**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **1**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:



Code: **CL**  
Description: **Crack Longitudinal**

Distance (ft): **1.7**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **11**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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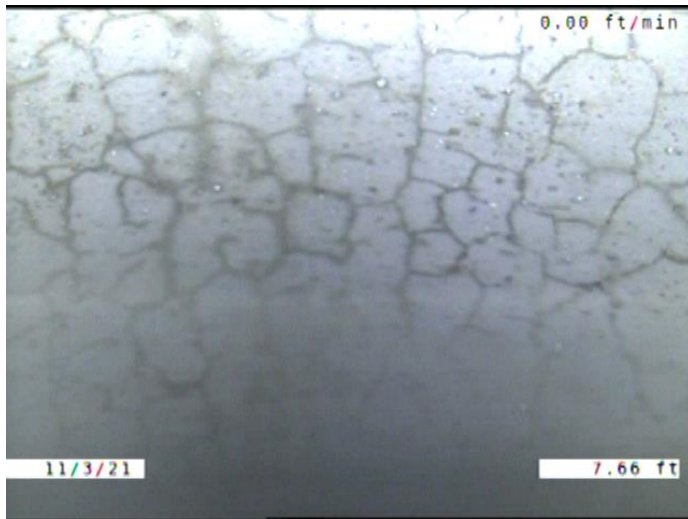


Code: **CL**  
Description: **Crack Longitudinal**

Distance (ft): **4.5**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **1**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

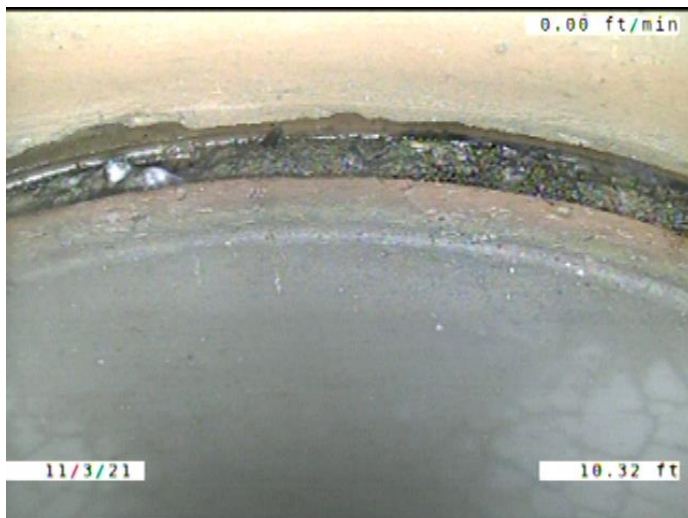
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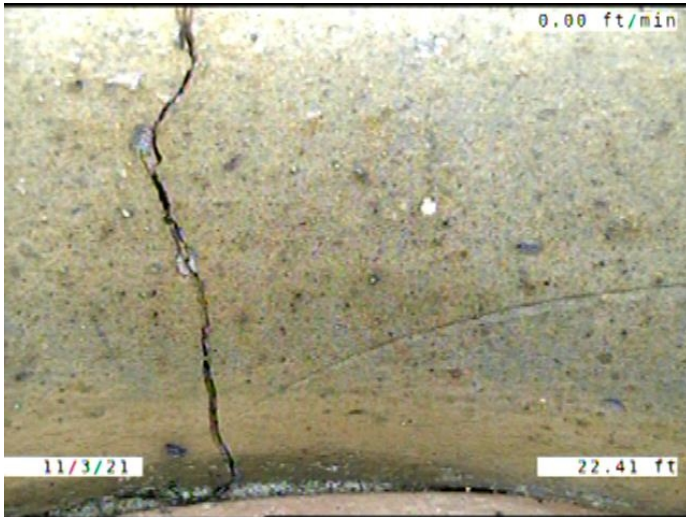
Code: **CM**  
 Description: **Crack Multiple**

Distance (ft): **7.7**  
 Structural Grade: **3**  
 O&M Grade: **0**  
 Clock Start/From: **8**  
 Clock To: **4**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index: **S01**  
 Within 8" of Joint: **YES**  
 Remarks:



Code: **JOM**  
 Description: **Joint Offset Medium**

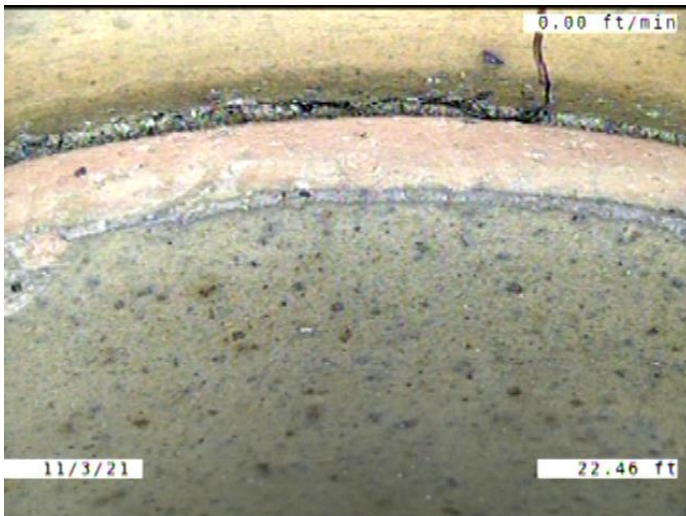
Distance (ft): **10.3**  
 Structural Grade: **3**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



Code: **FS**  
Description: **Fracture Spiral**

Distance (ft): **22.4**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **11**  
Clock To: **12**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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Code: **JOM**  
Description: **Joint Offset Medium**

Distance (ft): **22.5**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code: **MMC**  
 Description: **Miscellaneous Material Change**

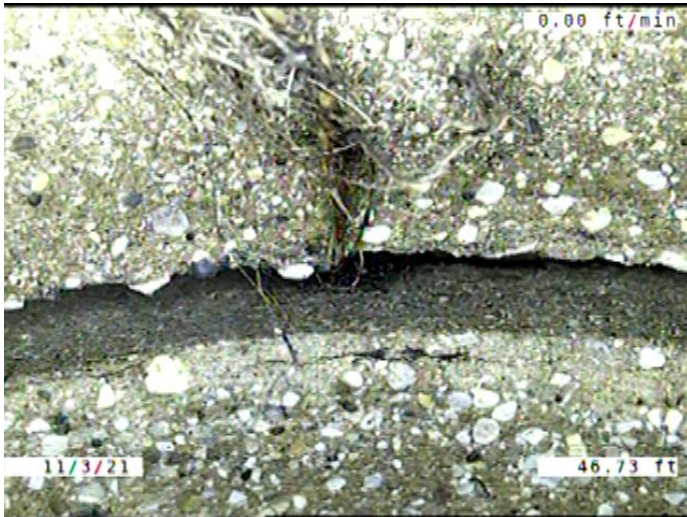
Distance (ft): **25.8**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks: **VCP TO CONCRETE**



Code: **CM**  
 Description: **Crack Multiple**

Distance (ft): **25.8**  
 Structural Grade: **3**  
 O&M Grade: **0**  
 Clock Start/From: **8**  
 Clock To: **4**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index: **F01**  
 Within 8" of Joint: **YES**  
 Remarks:





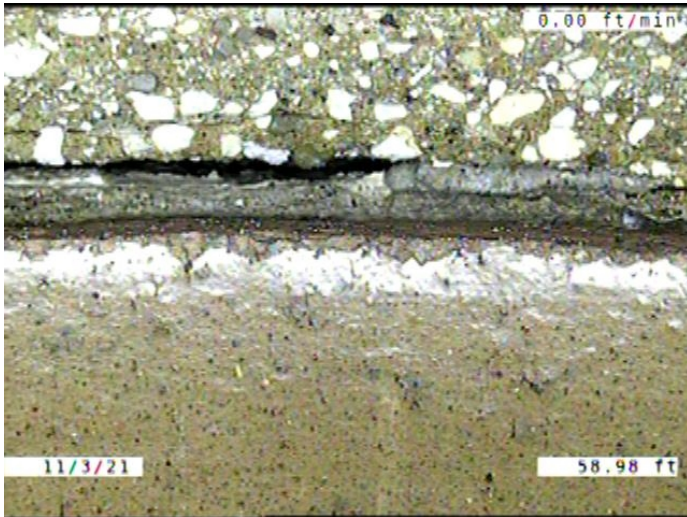
Code: **RFJ**  
 Description: **Roots Fine Joint**

Distance (ft): **46.7**  
 Structural Grade: **0**  
 O&M Grade: **1**  
 Clock Start/From: **9**  
 Clock To: **11**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



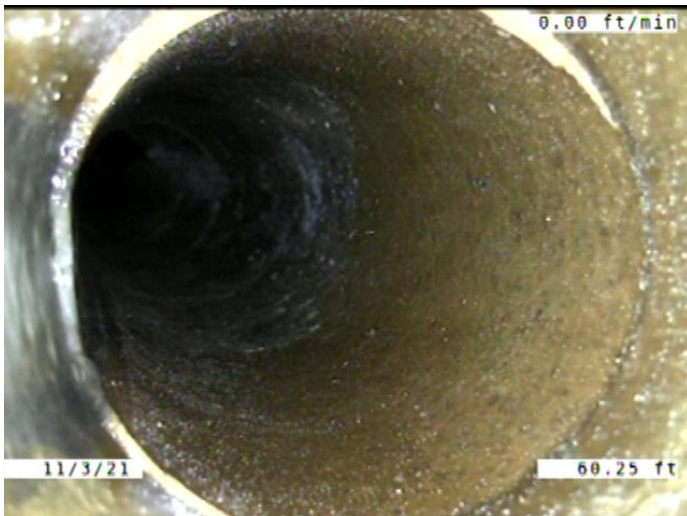
Code: **DAR**  
 Description: **Deposits Attached Ragging**

Distance (ft): **52.7**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **7**  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



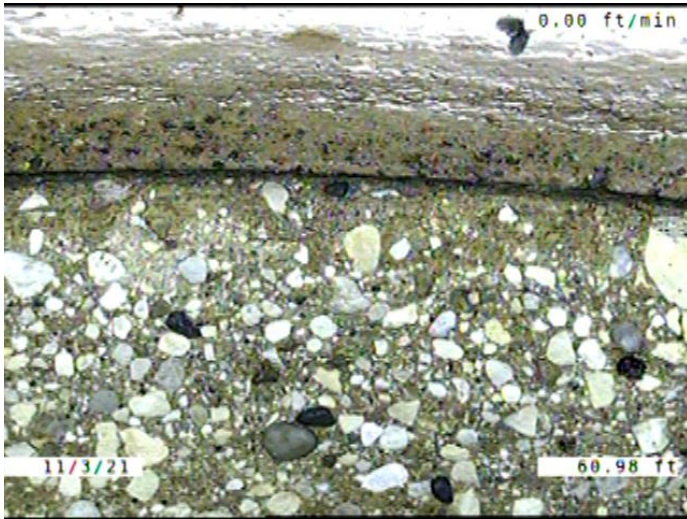
Code: **MMC**  
 Description: **Miscellaneous Material Change**

Distance (ft): **59.0**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks: **CONCRETE TO VCP**



Code: **TF**  
 Description: **Tap Factory**

Distance (ft): **60.3**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From: **10**  
 Clock To:  
 1st Value: **4.000**  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks: **CONSTANTLY RUNNING WATER**



Code: **MMC**  
 Description: **Miscellaneous Material Change**

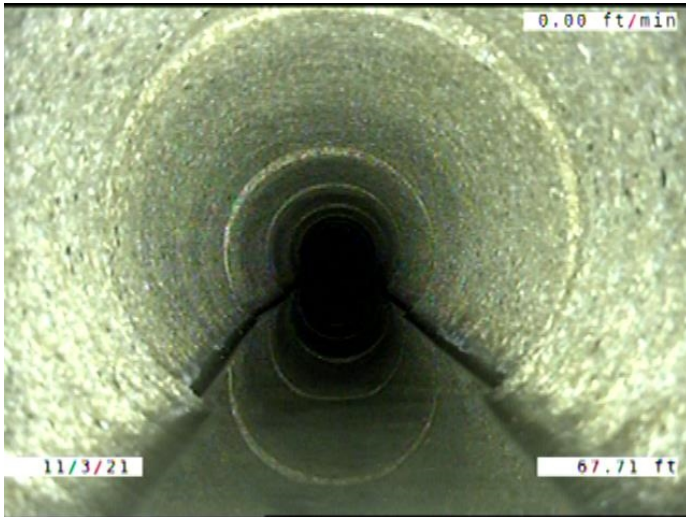
Distance (ft): **61.0**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks: **VCP TO CONCRETE**



Code: **MWL**  
 Description: **Miscellaneous Water Level**

Distance (ft): **61.0**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:

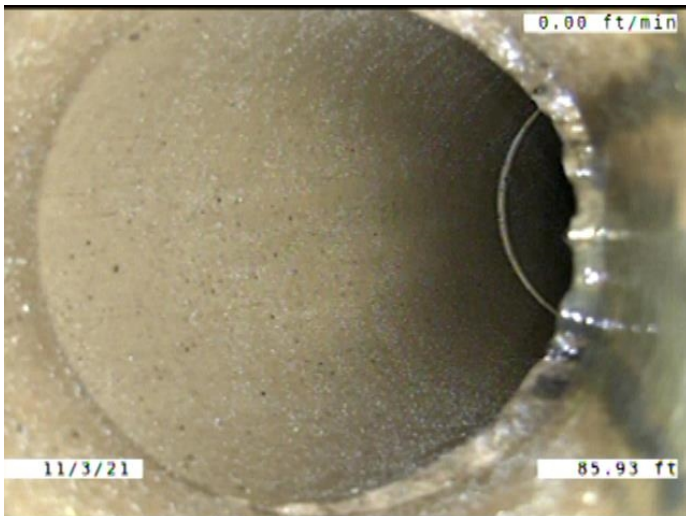




Code: **MWLS**  
Description: **Miscellaneous Water Level Sag**

Distance (ft): **67.7**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index: **S02**  
Within 8" of Joint: **NO**  
Remarks:

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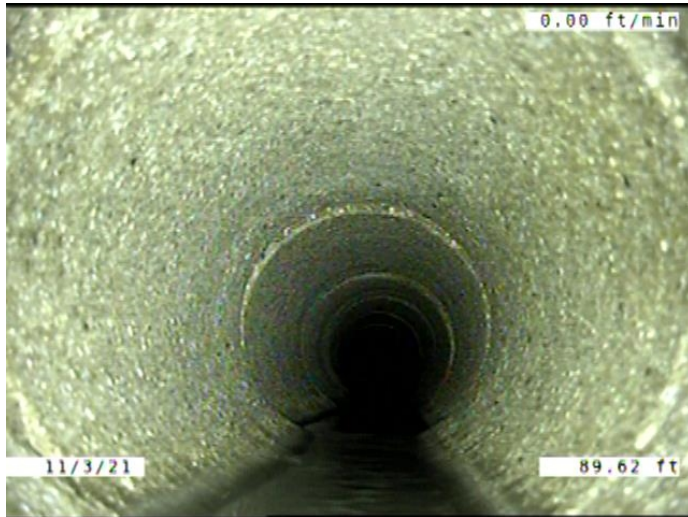


Code: **TB**  
Description: **Tap Break-in/Hammer**

Distance (ft): **85.9**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks: **CONSTANTLY RUNNING WATER**

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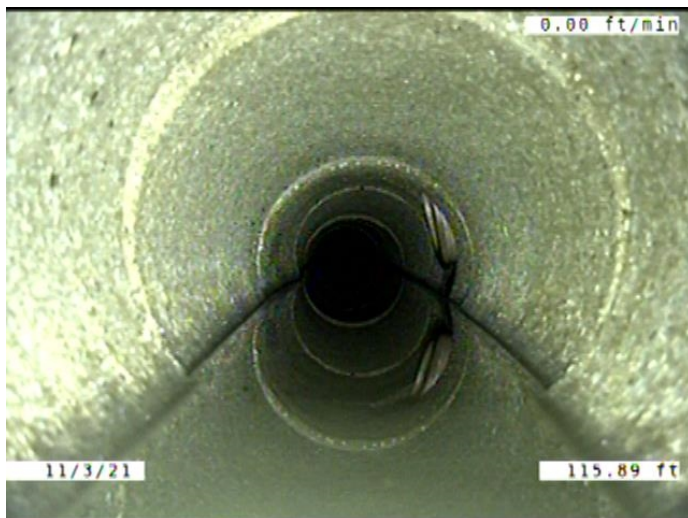




Code: **MWLS**  
Description: **Miscellaneous Water Level Sag**

Distance (ft): **89.6**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index: **F02**  
Within 8" of Joint: **NO**  
Remarks:

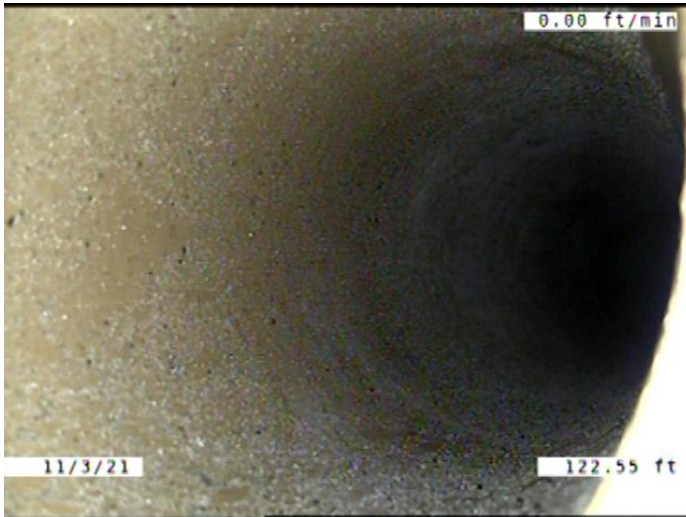
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Code: **MWLS**  
Description: **Miscellaneous Water Level Sag**

Distance (ft): **115.9**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **15.000**  
Continuous Index: **S03**  
Within 8" of Joint: **NO**  
Remarks:

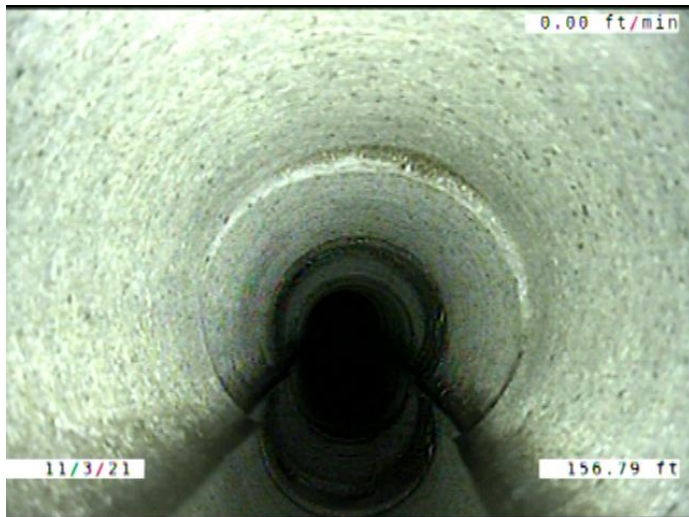
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Code:	<b>TBI</b>
Description:	<b>Tap Break-in Intruding</b>
Distance (ft):	<b>122.5</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>2</b>
Clock Start/From:	<b>2</b>
Clock To:	
1st Value:	<b>4.000</b>
2nd Value:	<b>1.000</b>
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>YES</b>
Remarks:	

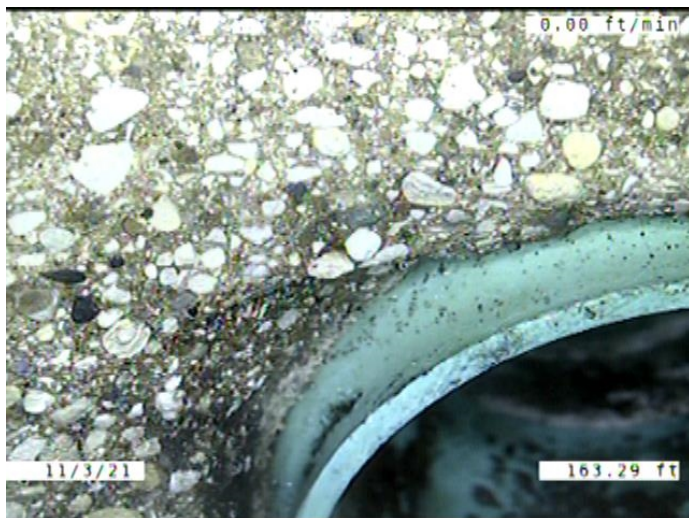


Code:	<b>MWLS</b>
Description:	<b>Miscellaneous Water Level Sag</b>
Distance (ft):	<b>146.6</b>
Structural Grade:	<b>2</b>
O&M Grade:	<b>0</b>
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	<b>15.000</b>
Continuous Index:	<b>F03</b>
Within 8" of Joint:	<b>NO</b>
Remarks:	



Code: **MWLS**  
 Description: **Miscellaneous Water Level Sag**

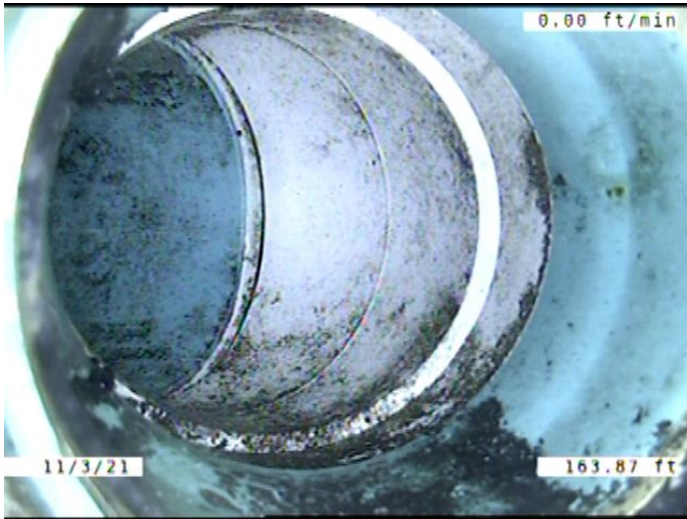
Distance (ft): **156.8**  
 Structural Grade: **2**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **10.000**  
 Continuous Index: **S04**  
 Within 8" of Joint: **NO**  
 Remarks:



Code: **B**  
 Description: **Broken**

Distance (ft): **163.3**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **11**  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

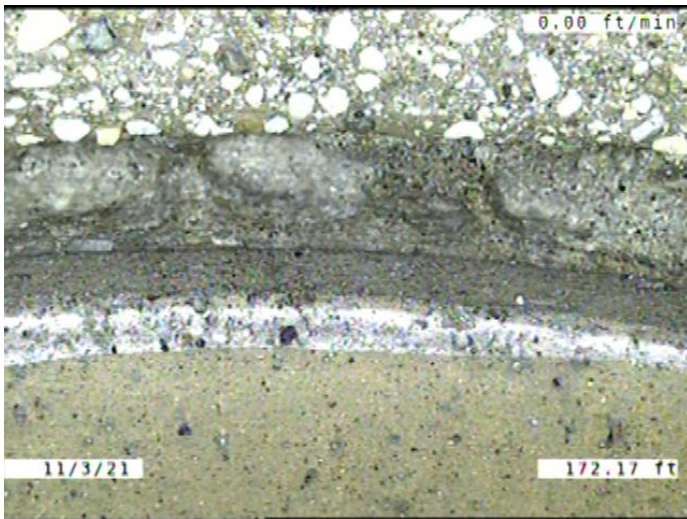




Code: **TBI**  
Description: **Tap Break-in Intruding**

Distance (ft): **163.9**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **11**  
Clock To:  
1st Value: **4.000**  
2nd Value: **1.000**  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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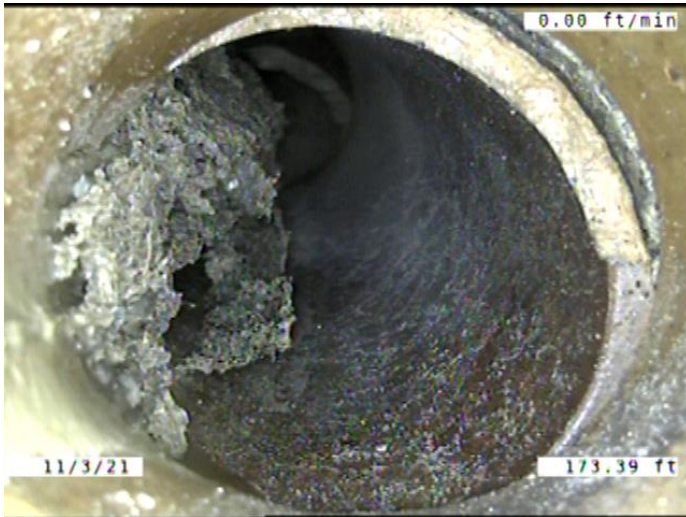


Code: **MMC**  
Description: **Miscellaneous Material Change**

Distance (ft): **172.2**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **CONCRETE TO VCP**

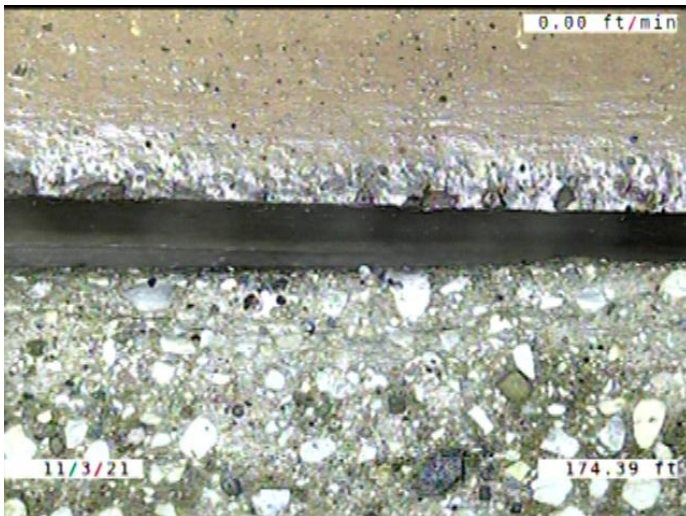
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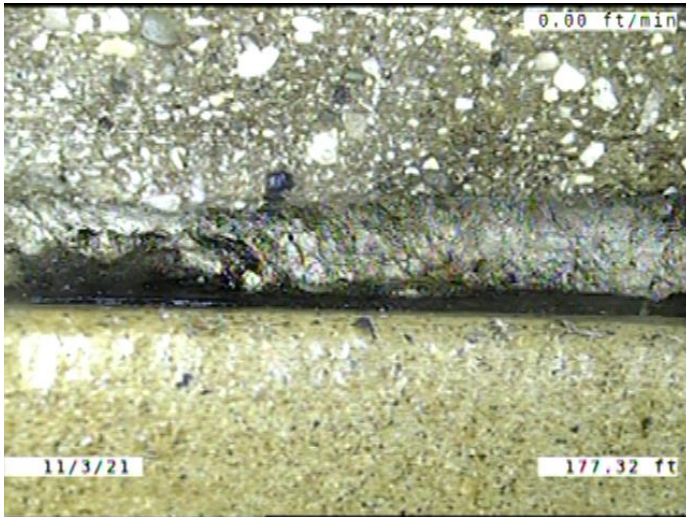
Code: **TFD**  
Description: **Tap Factory Defective**

Distance (ft): **173.4**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **10**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks: **BROKEN. OFFSET. SOIL VISIBLE**



Code: **MMC**  
Description: **Miscellaneous Material Change**

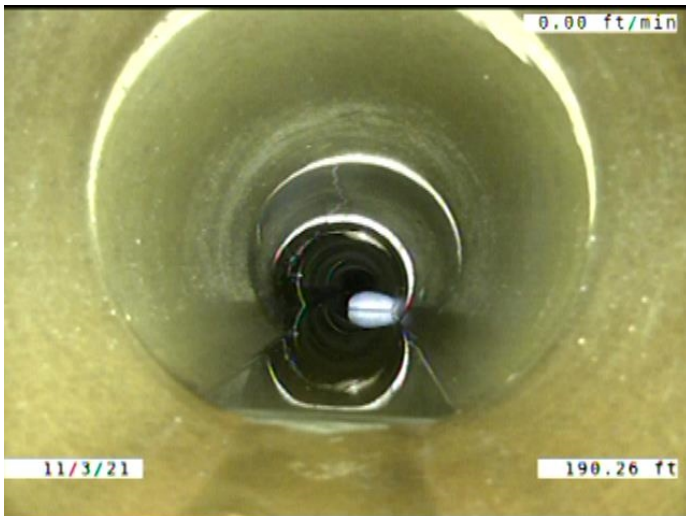
Distance (ft): **174.4**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **VCP TO CONCRETE**



Code: **MMC**  
Description: **Miscellaneous Material Change**

Distance (ft): **177.3**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **CONCRETE TO VCP**

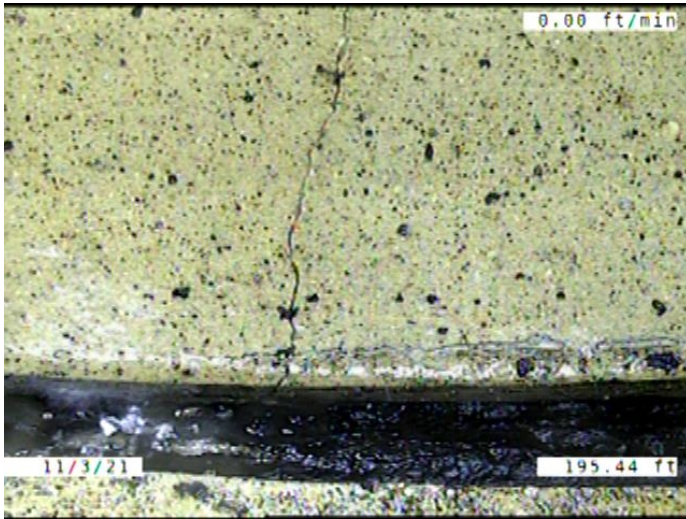
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Code: **MWLS**  
Description: **Miscellaneous Water Level Sag**

Distance (ft): **190.3**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **10.000**  
Continuous Index: **F04**  
Within 8" of Joint: **NO**  
Remarks:

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Code: **FM**  
 Description: **Fracture Multiple**

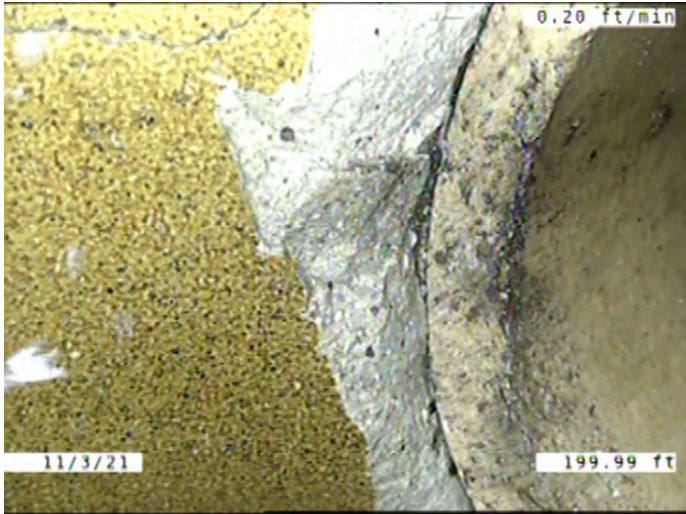
Distance (ft): **195.4**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **8**  
 Clock To: **4**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index: **S05**  
 Within 8" of Joint: **YES**  
 Remarks:



Code: **MWLS**  
 Description: **Miscellaneous Water Level Sag**

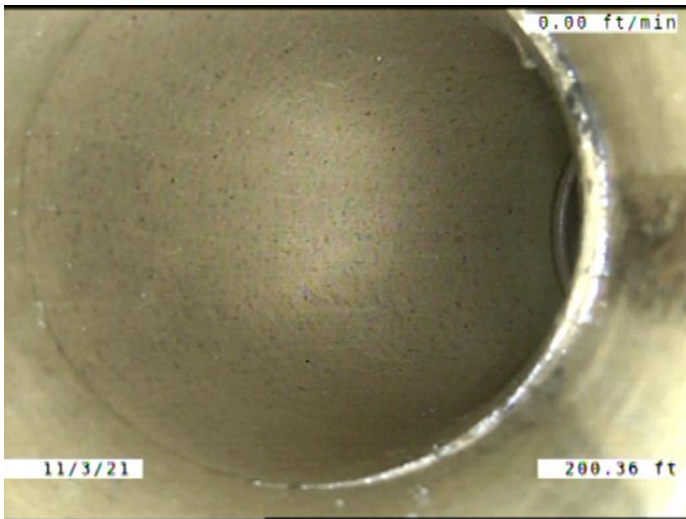
Distance (ft): **197.6**  
 Structural Grade: **2**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **15.000**  
 Continuous Index: **S06**  
 Within 8" of Joint: **NO**  
 Remarks:





Code: **SSS**  
 Description: **Surface Damage Surface Spalling**

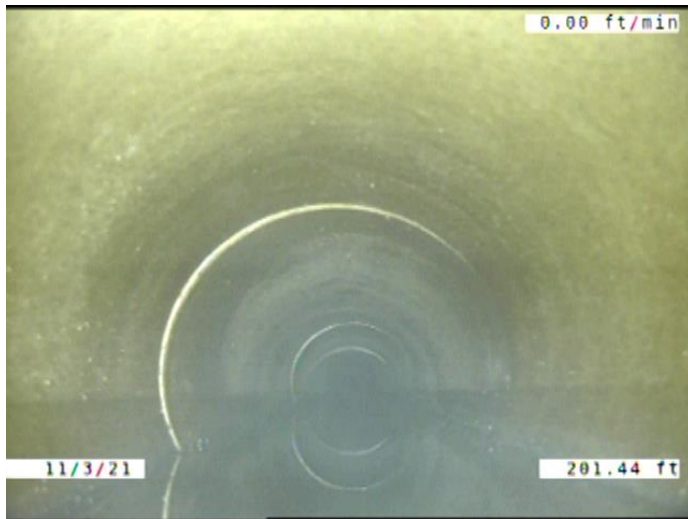
Distance (ft): **200.0**  
 Structural Grade: **2**  
 O&M Grade: **0**  
 Clock Start/From: **12**  
 Clock To: **2**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



Code: **TBI**  
 Description: **Tap Break-in Intruding**

Distance (ft): **200.4**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **1**  
 Clock To:  
 1st Value: **4.000**  
 2nd Value: **1.000**  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

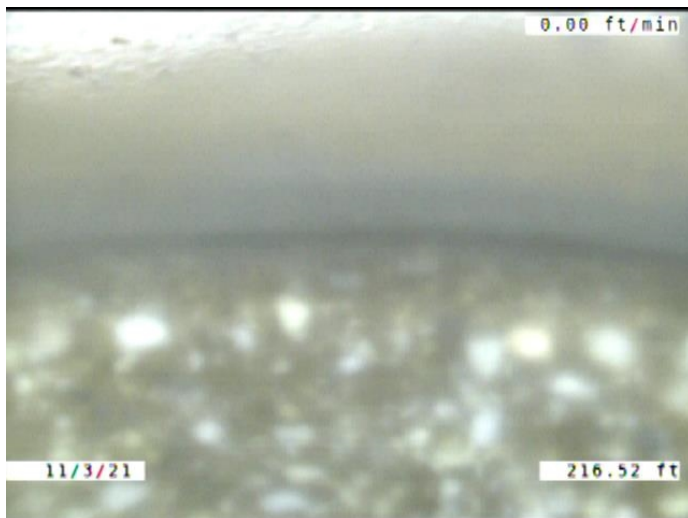




Code: **FM**  
Description: **Fracture Multiple**

Distance (ft): **201.4**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F05**  
Within 8" of Joint: **YES**  
Remarks:

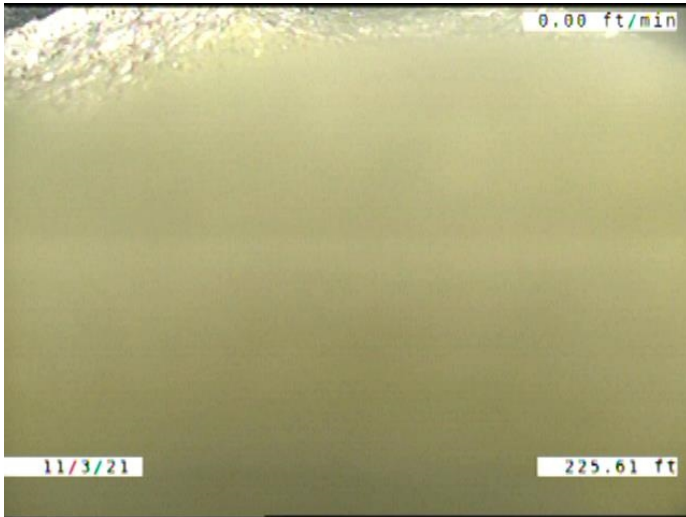
---



Code: **MMC**  
Description: **Miscellaneous Material Change**

Distance (ft): **216.5**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **VCP TO CONCRETE**

---



Code: **MMC**  
Description: **Miscellaneous Material Change**

Distance (ft): **225.6**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **CONCRETE. TO VCP**

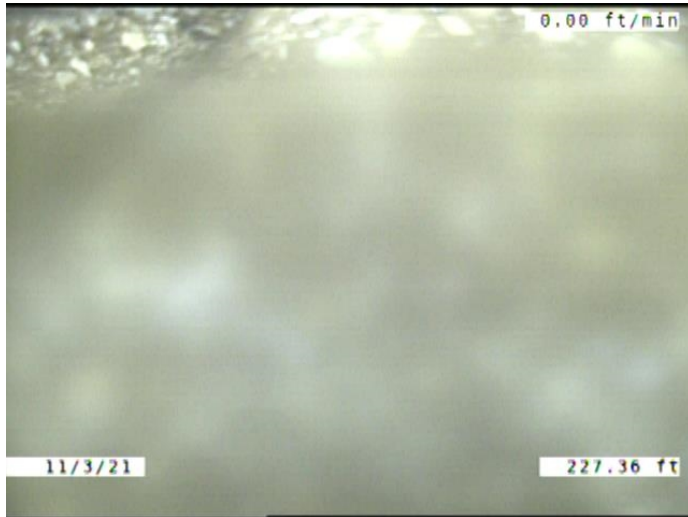
---



Code: **MWLS**  
Description: **Miscellaneous Water Level Sag**

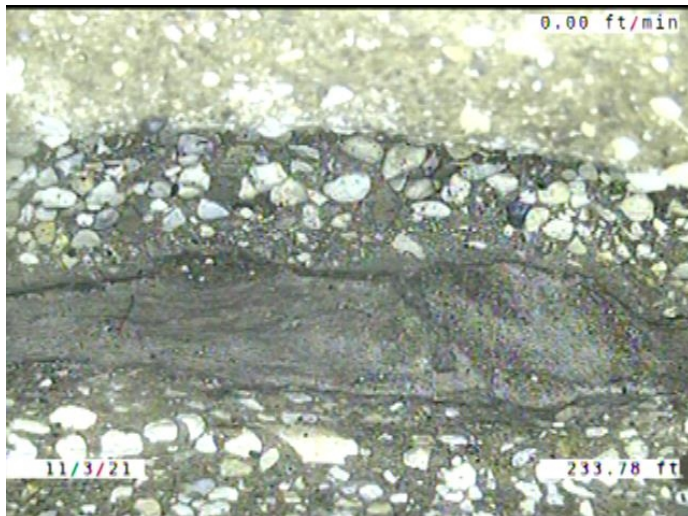
Distance (ft): **225.6**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **15.000**  
Continuous Index: **F06**  
Within 8" of Joint: **NO**  
Remarks:

---



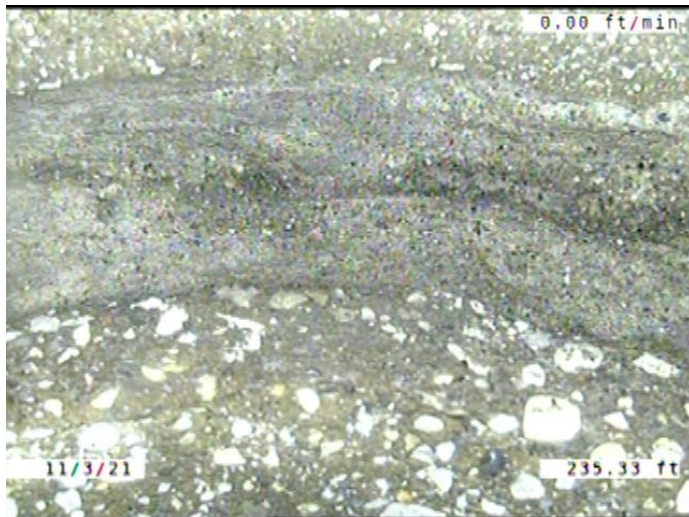
Code: **SMW**  
 Description: **Surface Damage Missing Wall**

Distance (ft): **227.4**  
 Structural Grade: **5**  
 O&M Grade: **0**  
 Clock Start/From: **11**  
 Clock To: **1**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



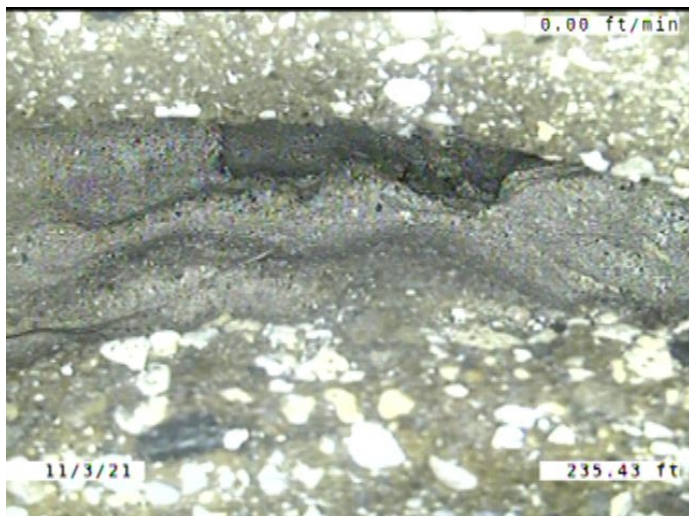
Code: **SMW**  
 Description: **Surface Damage Missing Wall**

Distance (ft): **233.8**  
 Structural Grade: **5**  
 O&M Grade: **0**  
 Clock Start/From: **12**  
 Clock To: **2**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks: **INSIDE OF THE JOINT**



Code: **JOMD**  
 Description: **Joint Offset Medium Defective**

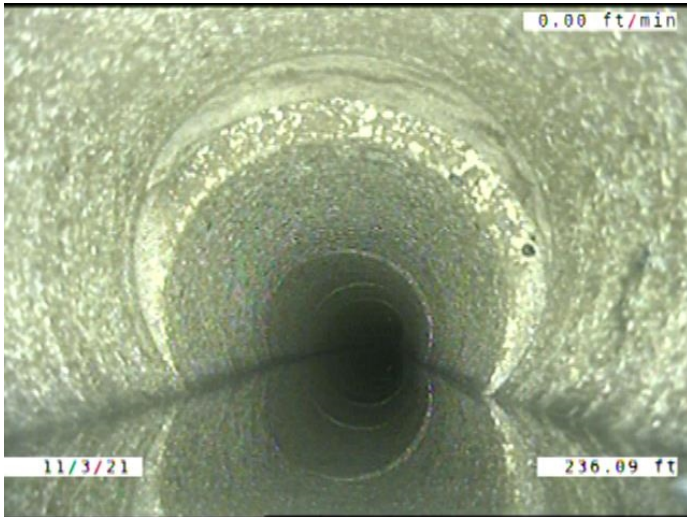
Distance (ft): **235.3**  
 Structural Grade: **3**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



Code: **BSV**  
 Description: **Broken Soil Visible**

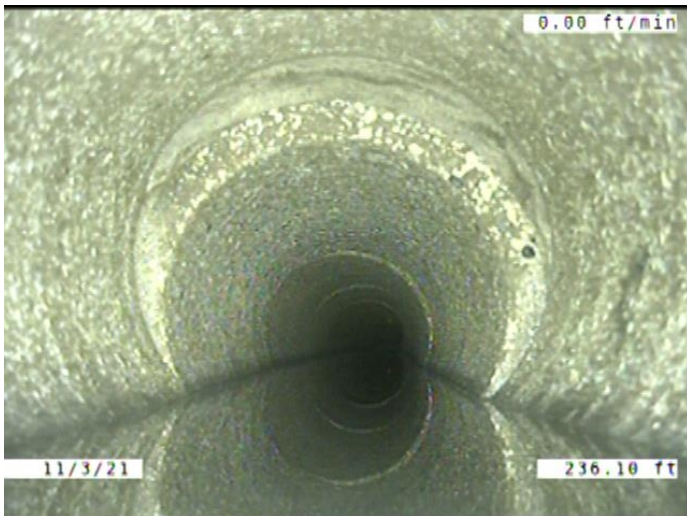
Distance (ft): **235.4**  
 Structural Grade: **5**  
 O&M Grade: **0**  
 Clock Start/From: **1**  
 Clock To: **2**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:





Code: **MSC**  
 Description: **Miscellaneous Shape/Size Change**

Distance (ft): **236.1**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value: **10.000**  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



Code: **MSA**  
 Description: **Miscellaneous Survey Abandoned**

Distance (ft): **236.1**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks: **CAMERA CANT FIT INTO 10" PIPE.**