

## Profile/Photo Observation Report




Date:	<b>04/10/2018</b>	Weather:		Coding:	<b>PACP 6.0</b>
Pipe Length (ft):	<b>182.6</b>	Owner:	<b>NA</b>	Pre Clean:	<b>Not Known</b>
P.O.#:		Surveyor:	<b>Mark Ruby</b>	PSR:	<b>P-503-022-021</b>
Customer:		Clean Date:	<b>01/01/1900</b>	Shape:	<b>C</b>

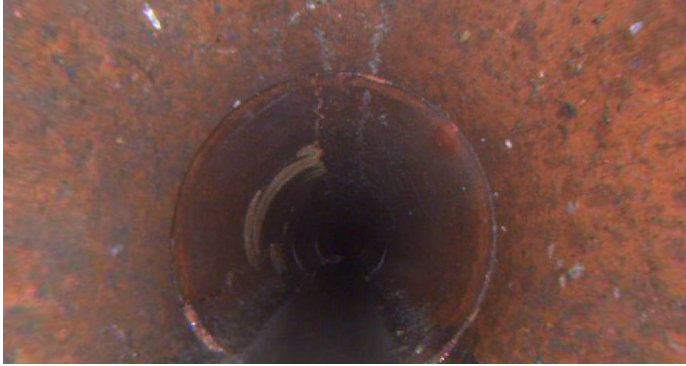
Street:	<b>W 40th ave</b>	Flow Control:	<b>Not Controlled</b>
City:	<b>Hobart, IN</b>	Year Renewed:	
Location:	<b>Other</b>	Tape/Media #:	
Purpose:	<b>Not Known</b>	Dia/Height:	<b>10"</b>
Use:	<b>Sanitary</b>	Material:	<b>VCP</b>
Drain Area:	<b>NA</b>	Lining:	
Category:	<b>NA</b>		
Comment:			

Location Details:		Direction of Survey:	<b>Downstream</b>
US MH:	<b>M-503-021</b>	DS MH:	<b>M-503-022</b>
		Total Length Surveyed (ft):	<b>173.7</b>

O&M Index:	<b>1.36</b>	O&M Quick:	<b>3123</b>	O&M Rating:	<b>19.00</b>
Structural Index:	<b>2.60</b>	Structural Quick:	<b>4331</b>	Structural Rating:	<b>26.00</b>
Overall Index:	<b>1.88</b>	Overall Quick:	<b>4332</b>	Overall Rating:	<b>45.00</b>

	Position	Code	Observation	Video (sec)	Grade
<b>M-503-021</b>					
	.0	AMH	Manhole	10	NA
	.0	MWL	Water Level	22	NA
	1.4	FM	Fracture Multiple	36	S 4
	10.6	TFC	Tap Factory Capped	68	NA
	12.4	TFC	Tap Factory Capped	88	NA
	21.0	RFJ	Roots Fine Joint	119	M 1
	35.6	RFJ	Roots Fine Joint	163	M 1
	45.8	MMC	Material Change	199	NA
	47.7	TFA	Tap Factory Active	218	NA
	53.7	MMC	Material Change	245	NA
	61.7	RFJ	Roots Fine Joint	277	M 1
	65.3	RFJ	Roots Fine Joint	300	M 1
	67.3	RFJ	Roots Fine Joint	319	M 1
	71.5	RFJ	Roots Fine Joint	343	M 1
	74.0	CL	Crack Longitudinal	364	S 2
	79.6	CC	Crack Circumferential	391	S 1
	80.7	TB	Tap Break-in	408	NA
	83.0	TFC	Tap Factory Capped	427	NA
	85.0	TFC	Tap Factory Capped	442	NA
	102.1	FM	Fracture Multiple	490	S 4
	102.5	RFC	Roots Fine Connection	506	M 1
	102.5	TBD	Tap Break-in Defective	517	M 3
	104.1	RFJ	Roots Fine Joint	536	M 1
	105.9	CL	Crack Longitudinal	555	S 2
	117.4	TFD	Tap Factory Defective	592	M 2
	117.4	RFL	Roots Fine Lateral	603	M 1
	119.2	TFC	Tap Factory Capped	619	NA
	121.1	CL	Crack Longitudinal	636	S 2
	126.0	RFJ	Roots Fine Joint	661	M 1
	133.8	DAE	Deposits Attached Encrustation	693	M 2
	138.4	FC	Fracture Circumferential	717	S 2
	148.2	CS	Crack Spiral	753	S 2
	156.3	DAZ	Deposits Attached Other	784	M 2
	161.9	FM	Fracture Multiple	811	S 4
	170.4	CM	Crack Multiple	843	S 3
	173.7	AMH	Manhole	866	NA
<b>M-503-022</b>					

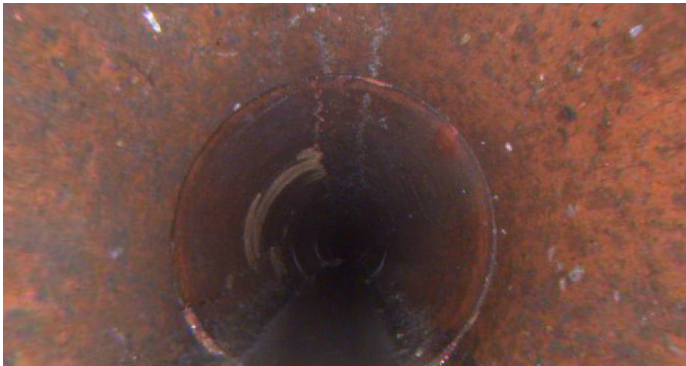
Code: **AMH**  
Description: **Manhole**



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-503-021**

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



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

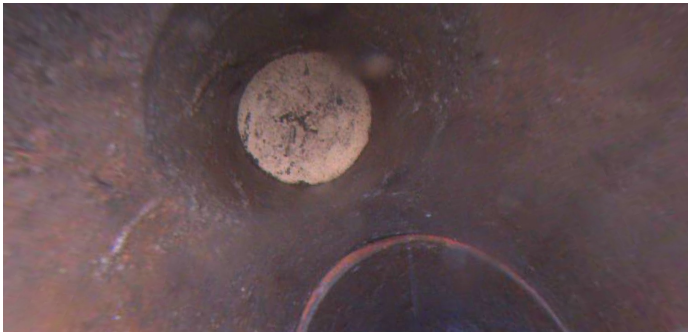
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Code: **FM**  
Description: **Fracture Multiple**

Distance (ft): **1.4**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **7**  
Clock To: **1**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---



Code: **TFC**  
Description: **Tap Factory Capped**

Distance (ft): **10.6**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **1**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---





Code: **TFC**  
Description: **Tap Factory Capped**

Distance (ft): **12.4**  
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:  
Remarks:

---



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

Distance (ft): **21.0**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **1**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---

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



Distance (ft): **35.6**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **9**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---

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



Distance (ft): **45.8**  
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: **PVC**

---



Code: **TFA**  
Description: **Tap Factory Active**

Distance (ft): **47.7**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **3**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---



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

Distance (ft): **53.7**  
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**

---



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

Distance (ft): **61.7**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **5**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---



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

Distance (ft): **65.3**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **2**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---

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



Distance (ft): **67.3**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **2**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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



Distance (ft): **71.5**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **1**  
Clock To: **4**  
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): **74.0**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---

Code: **CC**  
Description: **Crack Circumferential**



Distance (ft): **79.6**  
Structural Grade: **1**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **12**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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

Distance (ft): **80.7**  
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:  
Remarks:

---

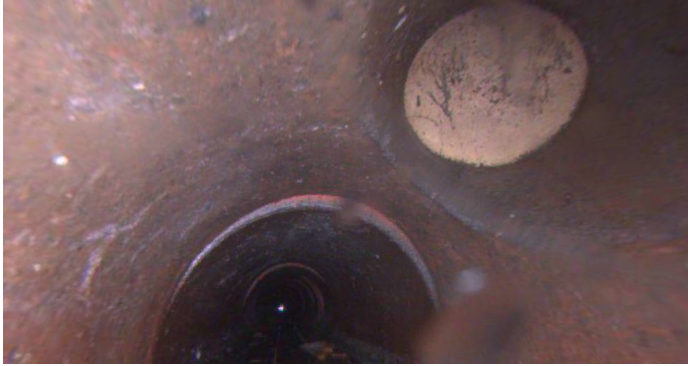


Code: **TFC**  
Description: **Tap Factory Capped**

Distance (ft): **83.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

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Code: **TFC**  
Description: **Tap Factory Capped**

Distance (ft): **85.0**  
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:  
Remarks:

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

Distance (ft): **102.1**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **1**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---

Code: **RFC**  
Description: **Roots Fine Connection**



Distance (ft): **102.5**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **12**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code: **TBD**  
Description: **Tap Break-in Defective**



Distance (ft): **102.5**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks: **Roots**

---



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

Distance (ft): **104.1**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **3**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:



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

Distance (ft): **105.9**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **3**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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



Distance (ft): **117.4**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **1**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks: **ROOTS**

---

Code: **RFL**  
Description: **Roots Fine Lateral**



Distance (ft): **117.4**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **1**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

---



Code: **TFC**  
Description: **Tap Factory Capped**

Distance (ft): **119.2**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **11**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---



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

Distance (ft): **121.1**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

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



Distance (ft): **126.0**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **2**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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Code: **DAE**  
Description: **Deposits Attached Encrustation**



Distance (ft): **133.8**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---

Code: **FC**  
Description: **Fracture Circumferential**



Distance (ft): **138.4**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **11**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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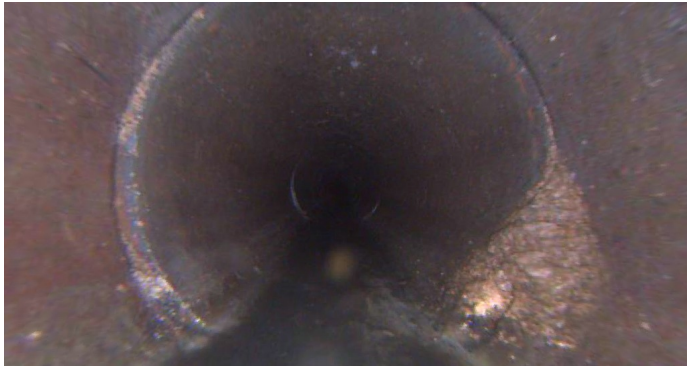
Code: **CS**  
Description: **Crack Spiral**



Distance (ft): **148.2**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **11**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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Code: **DAZ**  
Description: **Deposits Attached Other**

Distance (ft): **156.3**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **5**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---



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

Distance (ft): **161.9**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---

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



Distance (ft): **170.4**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **8**  
Clock To: **12**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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



Distance (ft): **173.7**  
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-503-022**