

Sheet 68 **Surveyor's Name** Brian Kauppenin **Certificate Number** U-218-070300218 **Date** 20241218
System Owner **Survey Customer** **Time** 17:43
Drainage Area **Locality/City Name** Tulsa
P.O. No **Location (No. & Name)** 9503 E 21st St
Further Location Details **Inspection Level** Level 2
Outgoing Rim to Invert 18.4 ft **Outgoing Grade to Invert** 17.6 ft **Rim to Grade** 0.8 ft
Use of Sewer Sanitary **Year Laid** **Year Rehabilitated** **Media Label**
Purpose Sewer System Evaluation Survey **Sewer Category**
Pre-Cleaning No Pre-Cleaning **Date Cleaned** **Weather**
Location Code Ditch **Potential for Runoff** **Evidence of Surcharge** Yes
Access Point Type Manhole **Coordinate System**
Northing **Easting** **Elevation** **Accuracy of GPS**
Inspection Status Remote Inspection
Additional Information Cone and wall are square
Node Surface Types

Concrete Pavement ☐ **Concrete Collar** ☐ **Asphalt** ☒ **Grass / Dirt** ☐ **Gravel** ☐ **Other** ☐

Cover

Cover Shape Circular **Cover Bearing Surface Diameter Width**
Cover Size 23.3 in **Cover Bearing Surface Diameter** 23.0 in
Civer Size Width **# Vent Holes**
Cover Material Cast Iron **Vent Hole Diameter**
Cover Frame Fit Good
Cover Type

<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> Bolted
<input type="checkbox"/> Vented/Slots	<input type="checkbox"/> Locking
<input type="checkbox"/> Gasketed	<input type="checkbox"/> Lamphole
<input type="checkbox"/> Hatch Single	<input type="checkbox"/> Inner Cover
<input type="checkbox"/> Hatch Double	

Cover Condition

<input checked="" type="checkbox"/> Solid	<input type="checkbox"/> Missing
<input type="checkbox"/> Cracked	<input type="checkbox"/> Corroded/Pitted
<input type="checkbox"/> Broken	<input type="checkbox"/> Bolts Missing
<input type="checkbox"/> Restraint Missing	
<input type="checkbox"/> Restraint Defective	

Cover Insert

Cover Insert Type None

Cover Insert Condition

<input type="checkbox"/> Solid	<input type="checkbox"/> Leaking
<input type="checkbox"/> Poorly Fitting	<input type="checkbox"/> Corroded
<input type="checkbox"/> Cracked/Torn/Holes	<input type="checkbox"/> Insert Fell

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Adj. Ring

Adjustment Ring Type None

Adjustment Ring Material

Adjustment Ring Height

Adjustment Ring Condition

- | | |
|----------------------------------|---|
| <input type="checkbox"/> Sound | <input type="checkbox"/> Corroded/Pitted/Worn |
| <input type="checkbox"/> Cracked | <input type="checkbox"/> Leaking |
| <input type="checkbox"/> Broken | <input type="checkbox"/> Poor Installation |

Frame

Frame Material Cast Iron

Frame Offset Distance 0.0 in

Frame Bearing Surface Width 0.8 in

Frame Depth

Frame Bearing Surface Depth 1.0 in

Frame Seal Inflow None

Frame Clear Opening Diameter 21.8 in

Frame Condition

- | | |
|---|---|
| <input checked="" type="checkbox"/> Sound | <input type="checkbox"/> Missing |
| <input type="checkbox"/> Cracked | <input type="checkbox"/> Corroded/Pitted/Worn |
| <input type="checkbox"/> Broken | <input type="checkbox"/> Coated |

Frame Seal Condition

- | | |
|---|---|
| <input checked="" type="checkbox"/> Sound | <input type="checkbox"/> Loose/Not Attached |
| <input type="checkbox"/> Cracked | |
| <input type="checkbox"/> Broken | <input type="checkbox"/> Offset |

Chimney

Chimney Material 1 Brick

Interior Chimney Coating/Liner None - No Coating

Chimney Material 2

Exterior Chimney Coating/Liner

Chimney Clear Opening

Chimney I/I

Chimney Depth 1.3 in

Cone

Cone Type Conical off centered

Cone Depth 5.0 in

Exterior Cone Coating/Liner

Cone Material Brick

Interior Cone Coating/Liner

Wall

Wall Diameter 1 48

Wall Depth 15.3 in

Wall Diameter 2 48

Interior Wall Coating/Liner None - No Coating

Wall Material Concrete (reinforced)

Exterior Wall Coating/Liner

Bench

Bench Present Y

Bench Material Concrete (non-reinforced)

Bench Coating/Liner Bench Liner

Channel/Step**Channel**

Channel Material	Concrete (non-reinforced)
Channel Type	Concrete (non-reinforced)
Channel Exposure	F
Channel Installed	Y

Step

# Steps	0
Step Material	

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Pipe Connections

Num	Clk	Rim to Pos	Invert	Direc	Material	Shape	Diam	Width	Pipe Cond	Seal Cond	Special Condition	PSR
1	6	18.4		O	RCP	C	54		D	S	GR	Auto Pipe 160B
	Mainline		Comments									
2	11	13.7		I	DIP	C	16		D	D	GR	Auto Pipe 161B
	Mainline		Comments									
3	12	18.0		I	RCP	C	48		D	S	GR	Auto Pipe 162B
	Mainline		Comments									
4	2	17.1		I	VCP	C	8		D	D	GR	Auto Pipe 163B
	Mainline		Comments									

Observations

Distance	Comp	Code	CD	Jnt	Stp	%	In1	In2	Fr	To	Video Reference
1.0 ft	CMI	MMS							12	12	360-0.0
	Remarks										
1.8 ft	COI	FM							12	12	360-0.0
	Remarks										
4.5 ft	COI	MGO									360-0.0
	Remarks Water mark										
5.7 ft	WI	SAP	S01						12	12	360-0.0
	Remarks										
11.2 ft	WI	MSC					72	72			360-0.0
	Remarks Wall size is best guess, unable to determine from point cloud										
13.7 ft	WI	CC							11	12	360-0.0
	Remarks Pipe seal 2										
13.7 ft	WI	IW							11	12	360-0.0
	Remarks Pipe seal 2										
15.2 ft	WI	SAP	F01						12	12	360-0.0
	Remarks										
17.1 ft	B	IS							11		360-0.0
	Remarks Pipe seal 4, unable to see crack										