

**Sheet** 346      **Surveyor's Name** Brian Kauppenin      **Certificate Number** U-218-070300218      **Date** 20250124  
**System Owner**      **Survey Customer**      **Time** 13:34  
**Drainage Area**      **Locality/City Name** Tulsa  
**P.O. No**      **Location (No. & Name)** 11902 E 21st St  
**Further Location Details**      **Inspection Level** Level 2  
**Outgoing Rim to Invert** 14.9 ft      **Outgoing Grade to Invert** 14.9 ft      **Rim to Grade** 0.0 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** Easement/Right of Way      **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** No chimney, Steps are brick and metal  
**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**  
☒ **Solid**      ☐ **Bolted**  
☐ **Vented/Slots**      ☐ **Locking**  
☐ **Gasketed**      ☐ **Lamphole**  
☐ **Hatch Single**      ☐ **Inner Cover**  
☐ **Hatch Double**  
**Cover Condition**  
☒ **Solid**      ☐ **Missing**  
☐ **Cracked**      ☐ **Corroded/Pitted**  
☐ **Broken**      ☐ **Bolts Missing**  
☐ **Restraint Missing**  
☐ **Restraint Defective**

**Cover Insert**

**Cover Insert Type** None      **Cover Insert Condition**  
☐ **Solid**      ☐ **Leaking**  
☐ **Poorly Fitting**      ☐ **Corroded**  
☐ **Cracked/Torn/Holes**      ☐ **Insert Fell**

Sheet 346

Survey Date 20250124

P.O. No

Location (No. &amp; Name) 11902 E 21st St

Inspection Level Level 2

Locality/City Name Tulsa

Inspection Status Remote Inspection

**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 Other

Interior Chimney Coating/Liner None - No Coating

Chimney Material 2

Exterior Chimney Coating/Liner

Chimney Clear Opening

Chimney I/I

Chimney Depth 0.0 in

**Cone**

Cone Type Conical centered

Cone Depth 3.5 in

Exterior Cone Coating/Liner

Cone Material Brick

Interior Cone Coating/Liner

**Wall**

Wall Diameter 1 49

Wall Depth 14.2 in

Wall Diameter 2

Interior Wall Coating/Liner Cementitious

Wall Material Brick

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	8
Step Material	Other

Sheet 346

Survey Date 20250124

P.O. No

Location (No. &amp; Name) 11902 E 21st St

Inspection Level Level 2

Locality/City Name Tulsa

Inspection Status Remote Inspection

**Pipe Connections**

Num	Clk Pos	Rim to Invert	Direc	Material	Shape	Diam	Width	Pipe Cond	Seal Cond	Special Condition	PSR
1	6	14.9	O	VCP	C	12		S	S	GR	Auto Pipe 18C
	Mainline		Comments								
2	9	14.8	I	VCP	C	12		S	S	GR	Auto Pipe 19C
	Mainline		Comments								
3	3	12.1	I	VCP	C	8		S	S	OU	Auto Pipe 20C
	Mainline		Comments								
4	3	14.5	I	VCP	C	8		S	S	OL	Auto Pipe 21C
	Mainline		Comments								

**Observations**

Distance	Comp	Code	CD	Jnt	Stp	%	In1	In2	Fr	To	Video Reference
2.1 ft	COI	DAR				5			7		360-0.0
	Remarks										
3.6 ft	WI	DAE	S01			5			7	8	360-0.0
	Remarks										
3.6 ft	WI	IS							7	8	360-0.0
	Remarks										
7.4 ft	WI	DAE	S02			5			11	12	360-0.0
	Remarks										
7.4 ft	WI	LFPH							12		360-0.0
	Remarks										
8.8 ft	WI	DAR	S03			5			7	8	360-0.0
	Remarks										
12.9 ft	WI	DAR	F03			5			7	8	360-0.0
	Remarks										
14.1 ft	WI	DAE	F01			5			7	8	360-0.0
	Remarks										
14.1 ft	WI	DAE	F02			5			11	12	360-0.0
	Remarks										