

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility1

Observation Location:



Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction:

Comments:

Photo taken facing upstream.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Observation Location:

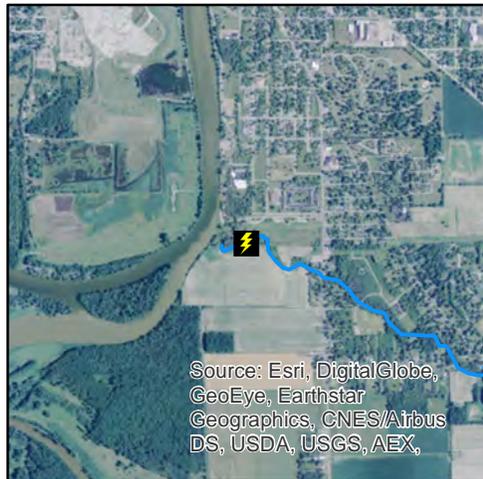


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction:

Comments:

Electric 40'

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Observation Location:

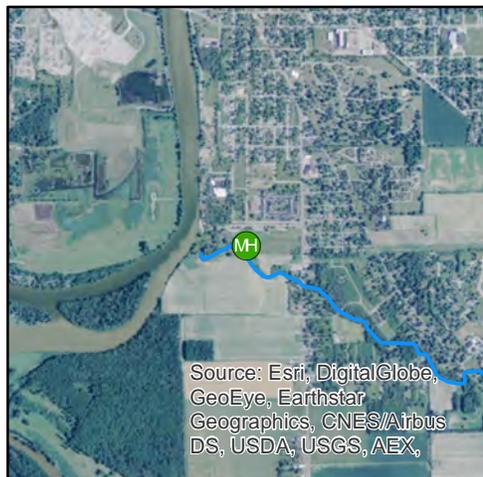


Photo 1



Type: Storm Manhole

Length (inches): 40

Location: Other

Photo 1 Direction:

Comments:

Upstream left side erosion at base

Photo 2

CLIENT	Saginaw County Public Works Commissioner		555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:

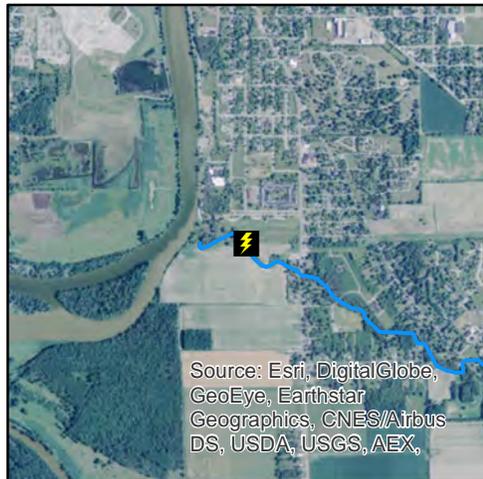


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction:

Comments:

Photo taken facing southwest. 2 different overhead areas.

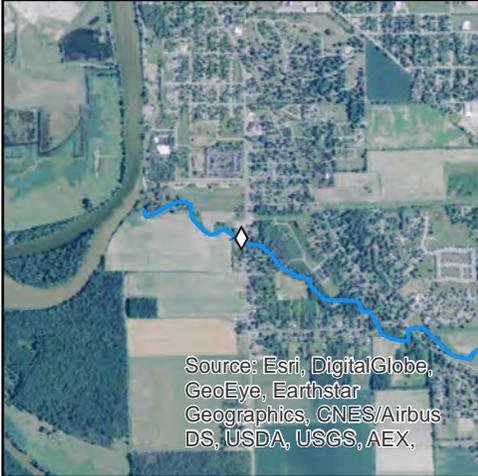
Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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NOTE				SHEET #:	
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King Street Tile Drain Inspections

Observation Location:

Photo 1



Type: Gas

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

Gas pipeline markers on left side facing upstream. Could be an old marker. Photo taken facing south.

Photo 2



CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:

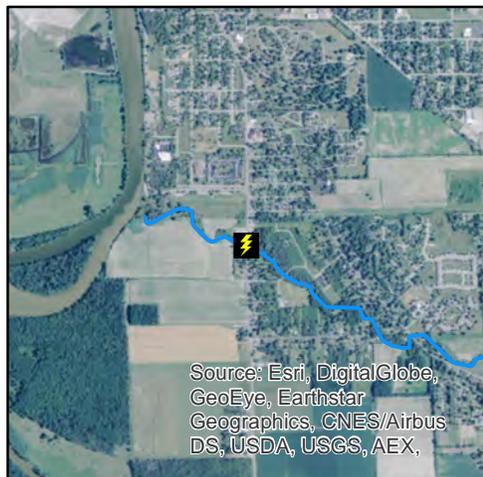


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction:

Comments:

Upstream 30' overhead west side of m-13

Photo 2

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Observation Location:

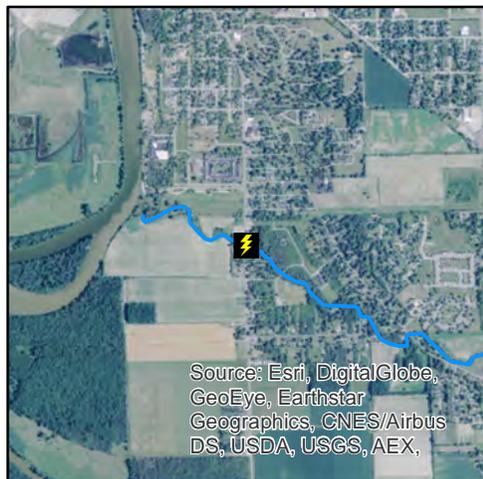


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction:

Comments:

Downstream 15' overhead east side of m-13

Photo 2

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Observation Location:

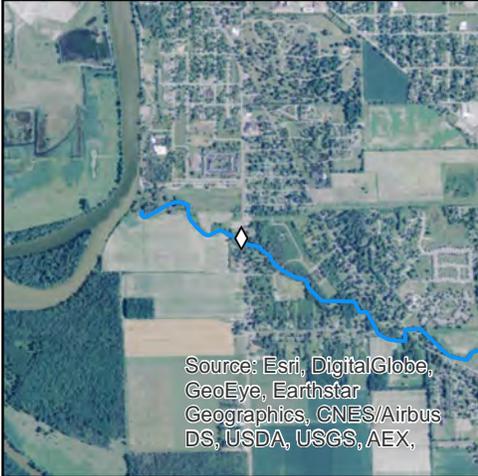


Photo 1



Type: Gas

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

Marker for gas pipeline. On left side facing upstream. Photo taken facing downstream.

Photo 2

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				SCALE:	
NOTE				SHEET #:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility9

Observation Location:

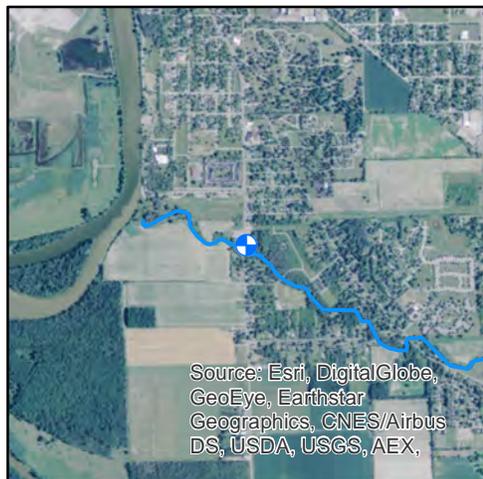


Photo 1



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

150 ft north of drain. Photo taken facing south.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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Observation Location:

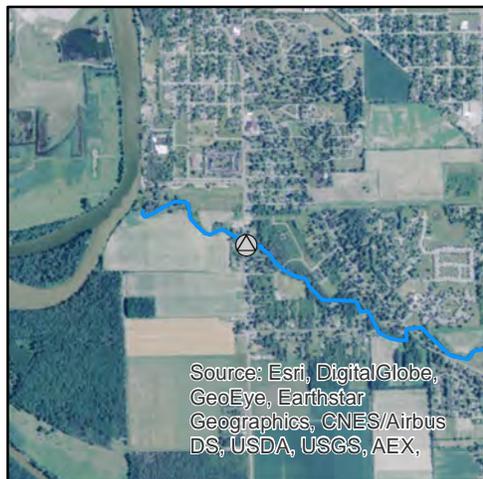


Photo 1



Type: Fiber Optics

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

Underground. Marker is approx 50 ft right of drain, on east side of M13.

Photo 2

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Observation Location:

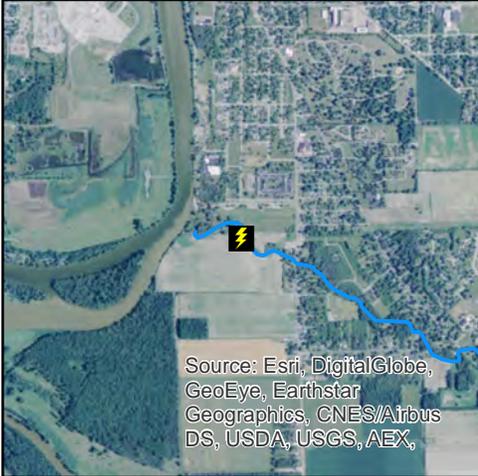


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction:

Comments:

High tension electric power line crossing the drain. Picture facing East.

Photo 2

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Observation Location:

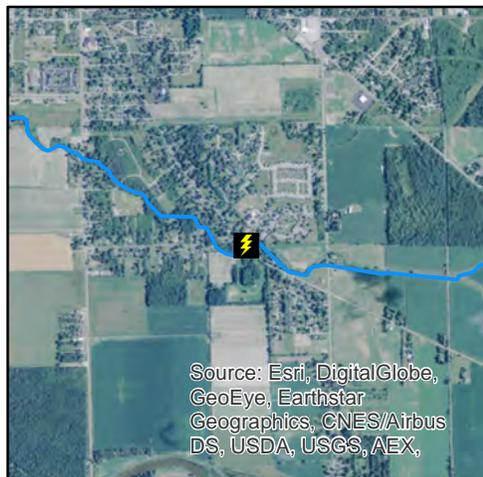


Photo 1



Type: Electric

Length (inches):

Location:

Photo 1 Direction:

Comments:

Overhead utility with light on southwest side of Washington. Photo facing south.

Photo 2

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Observation Location:

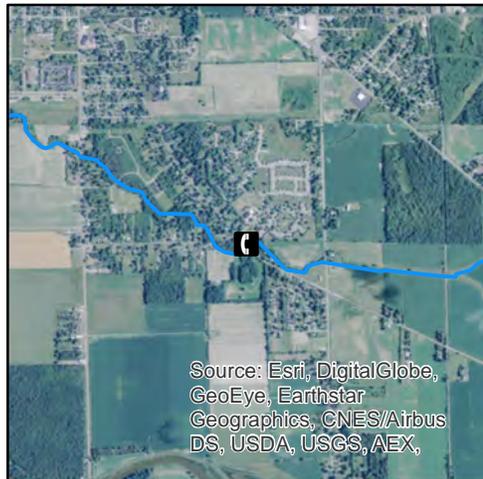


Photo 1



Type: Phone

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

At&t buried cable marker. 20 ft to right of drain on northeast side of Washington rd.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility14

Observation Location:

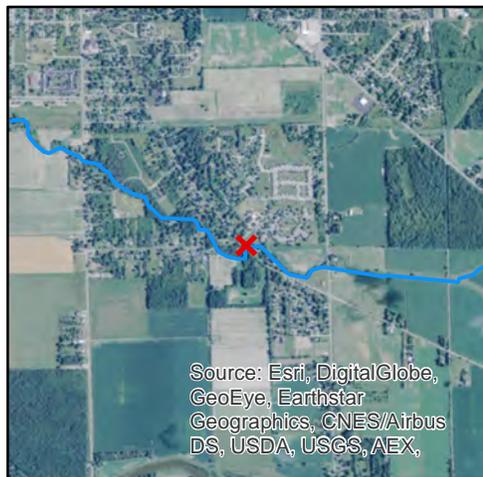


Photo 1



Type: Other

Length (inches):

Location:

Photo 1 Direction:

Comments:

10 ft on left side of drain. Unnamed pedestal. Photo facing southeast

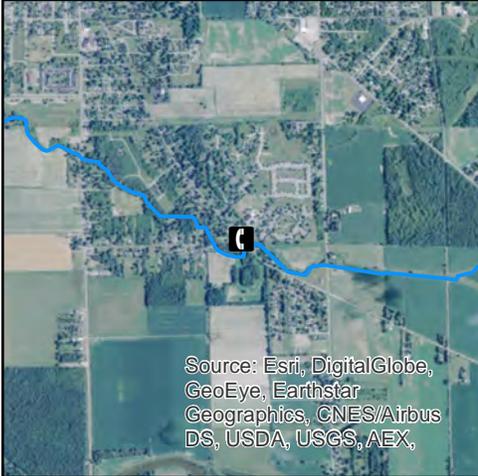
Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility15

Observation Location:



Type: Phone

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

At&t marker for buried cable 100 ft to left of drain. Photo facing southeast.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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King Street Tile Drain Inspections

Observation Location:

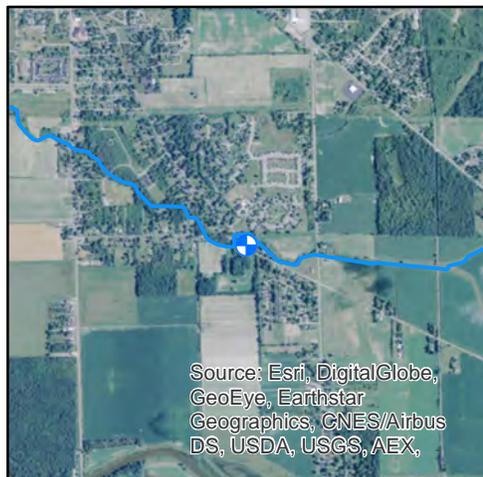
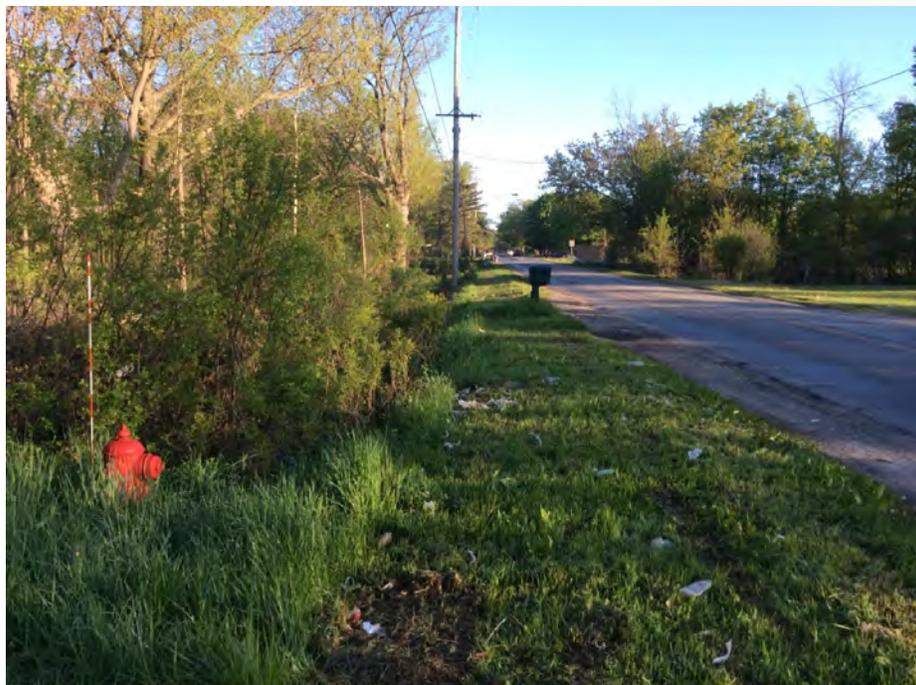


Photo 1



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

Found fire hydrant 300 ft southeast of drain. Photo facing northwest.

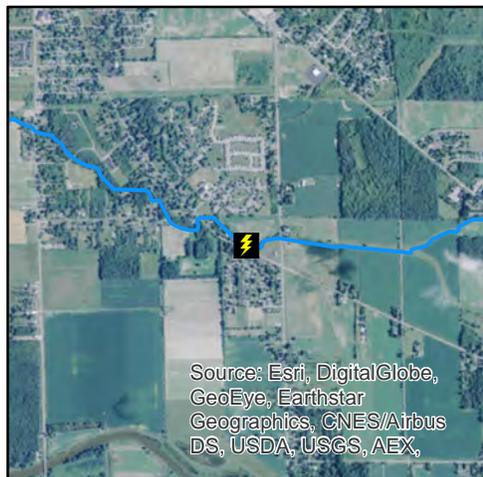
Photo 2

CLIENT	Saginaw County Public Works Commissioner		555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility17

Observation Location:



Type: Electric

Length (inches): 0

Location: Overhead

Photo 1 Direction:

Comments:

Electrical line overhead about 15 ft south of drain. Photo taken facing south.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility18

Observation Location:

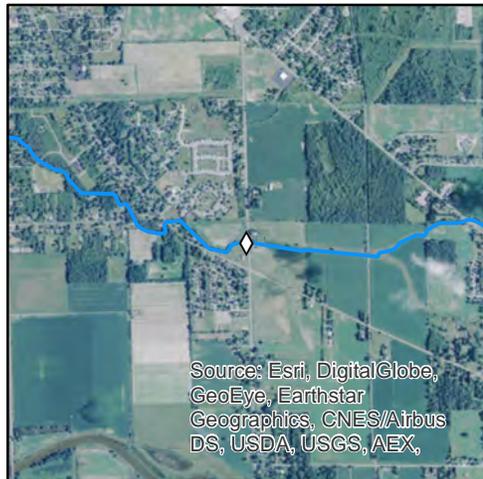


Photo 1



Type: Gas

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

Gas pipeline marker 10 ft right of drain.
On right side. Photo facing north.

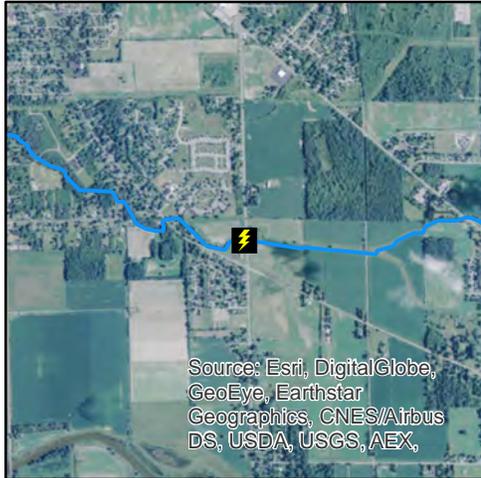
Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility19

Observation Location:



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction:

Comments:

Electric overhead crossing over culvert same direction as drain. Photo taken facing northeast.

Photo 1

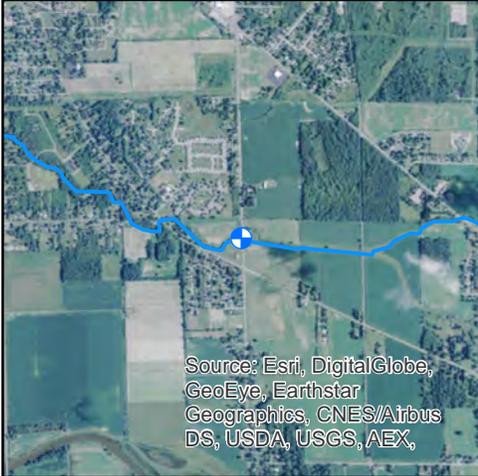


Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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King Street Tile Drain Inspections

Observation Location:



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

Water main manhole and sign 15 ft left of drain. On left side, wwest side of sheridan rd. Photo facing west.

Photo 1



Photo 2

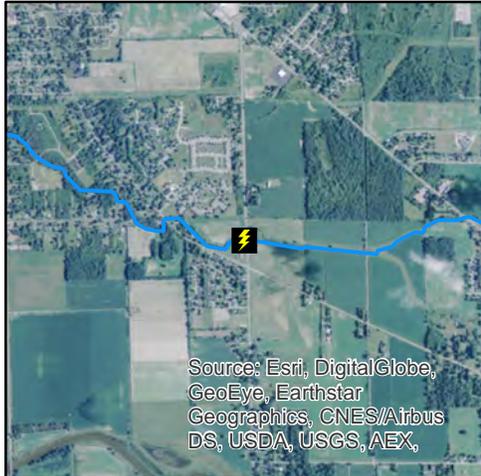


CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility21

Observation Location:



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction:

Comments:

Overhead electric perpendicular to drain crossing. Photo taken facing east.

Photo 1

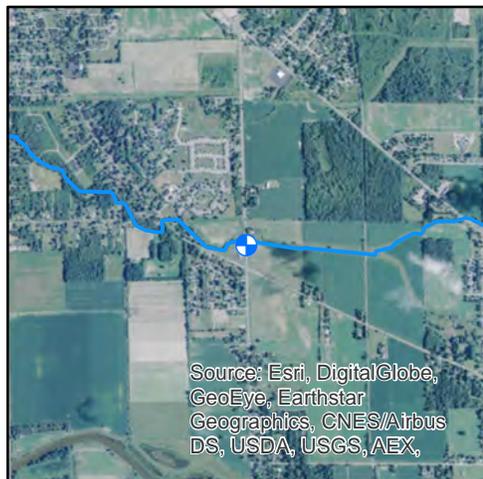


Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

Fire hydrant 100 ft right of sheridan rd.
On east side. Photo facing north.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
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King Street Tile Drain Inspections

Observation Location:

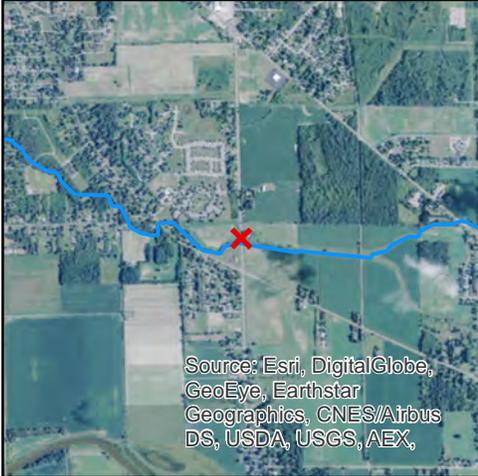


Photo 1



Type: Other

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

100 ft away On left side of drain. On east side of sheridan rd. Might be cable. Photo facing south.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility24

Observation Location:



Photo 1



Type: Other

Length (inches):

Location: Other

Photo 1 Direction:

Comments:

Wrapped up wires in utility box intertwining with tree branches. West of Sheridan Rd. 100 ft left of drain. Photo taken facing southwest.

Photo 2

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King Street Tile Drain Inspections

Observation Location:

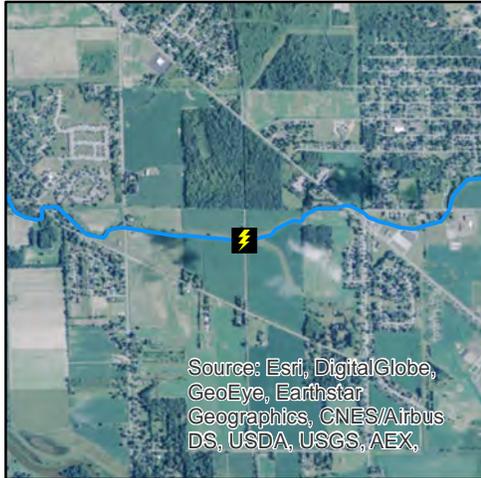


Photo 1



Type: Electric

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

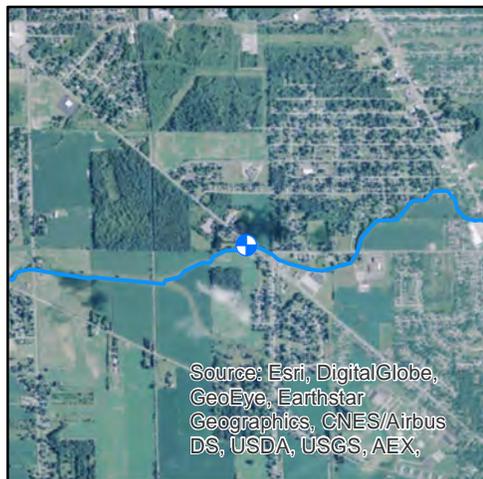
Buried optical cable underground. Right side of drain past railroad facing upstream. Photo taken from railroad facing upstream.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction: Southeast

Comments:

Fire hydrant located approximately 100' northeast of drain.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Type: Phone

Length (inches):

Location: Underground

Photo 1 Direction: West

Comments:

Underground cable 170 ft to right of drain. On south side of King st.

Photo 1

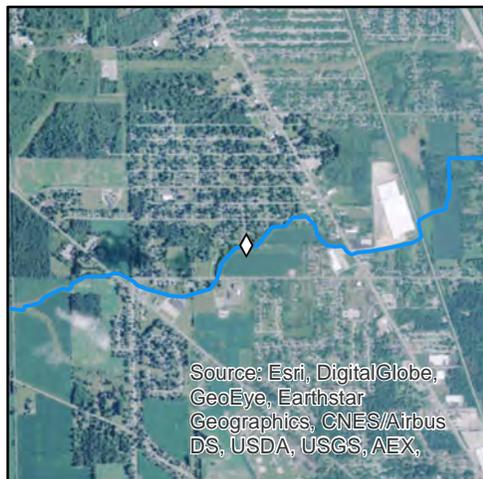


Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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King Street Tile Drain Inspections

Observation Location:



Type: Gas

Length (inches):

Location: Underground

Photo 1 Direction: South

Comments:

Gas utility sign about 20 ft north of drain.

Photo 1

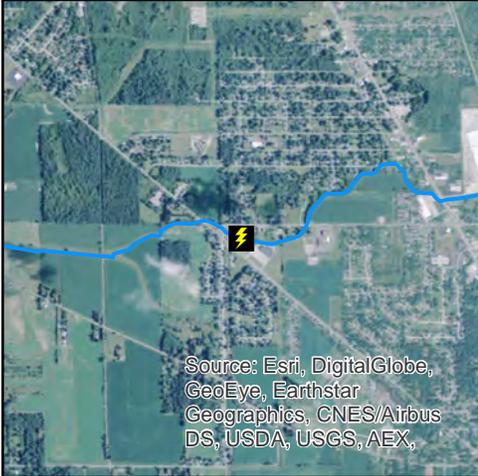


Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: Facing Upstream

Comments:

Electric pole about 100 ft tall on left side of drain.

Photo 1

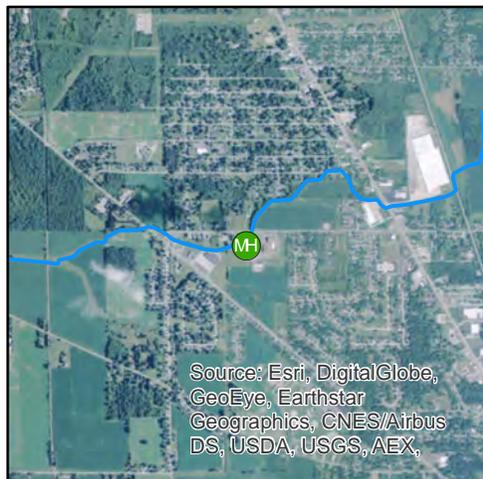


Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Type: Storm Manhole

Length (inches):

Location: Underground

Photo 1 Direction: North

Comments:

Storm manhole 100 ft right of drain.
Photo facing north.

Photo 1



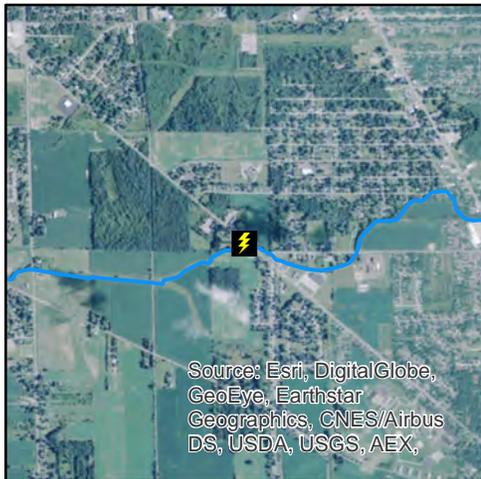
Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive		DATE:	08/16/2016
			P.O. Box 824		SCALE:	
Bloomfield Hills, MI 48303-0824			SHEET #:			
(248) 454-6300			JOB #:	20160331		
NOTE			http://www.hrc-engr.com			

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility31

Observation Location:



Type: Electric

Length (inches):

Location: Underground

Photo 1 Direction: Southeast

Comments:

Located 131' northwest of the drain.
Picture facing southeast across the drain.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Observation Location:

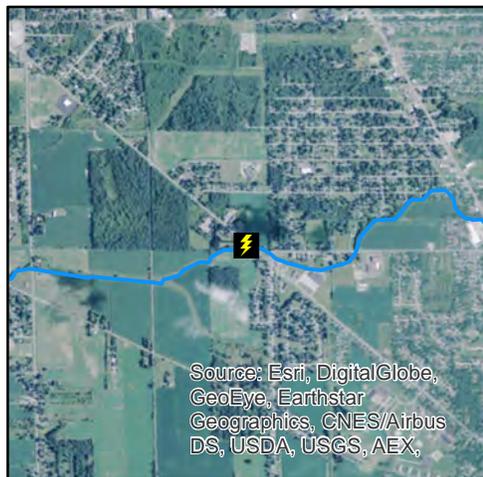


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: Southeast

Comments:

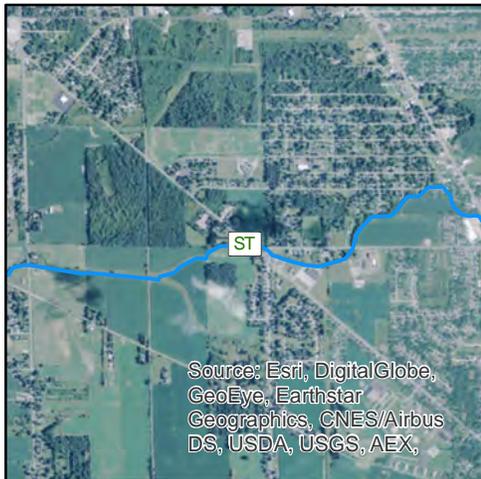
Overhanging electrical approximately 60' over the drain. Picture facing southeast across the drain.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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King Street Tile Drain Inspections

Observation Location:



Type: Storm Sewer

Length (inches):

Location: Underground

Photo 1 Direction: Facing Upstream

Comments:

Storm manhole within 10' of northeast side of drain.

Photo 1

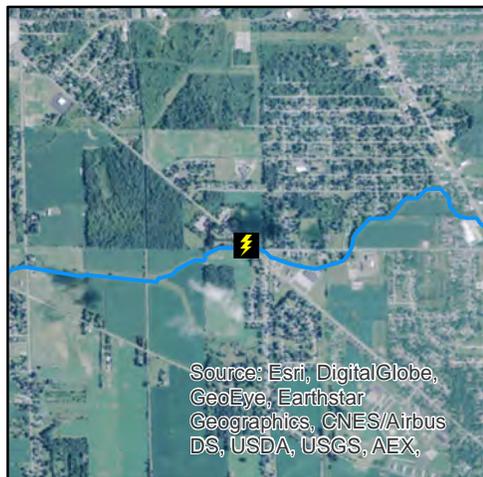


Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
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King Street Tile Drain Inspections

Observation Location:



Type: Electric

Length (inches):

Location: Underground

Photo 1 Direction: North

Comments:

Underground electrical approximately 20' south of drain.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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NOTE				SHEET #:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility35

Observation Location:

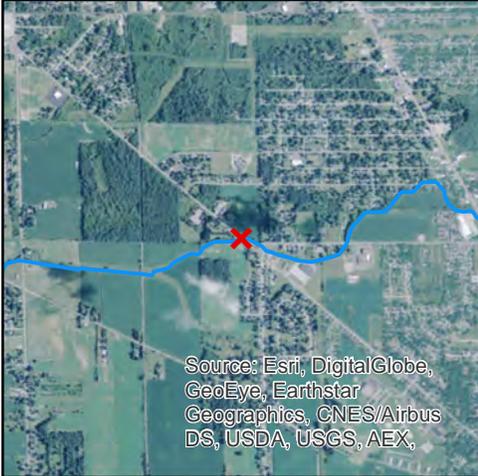


Photo 1



Type: Other

Length (inches): 4

Location: Other

Photo 1 Direction: North

Comments:

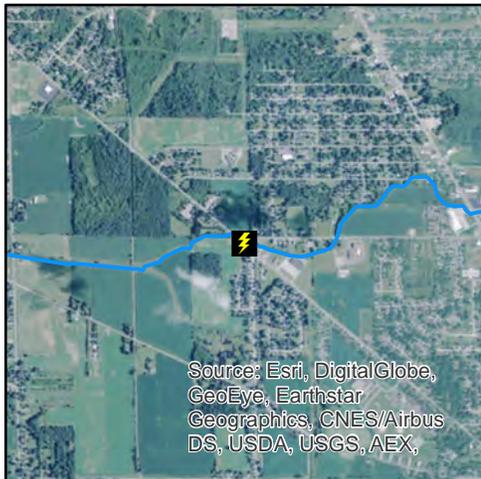
Unknown utility pipe crossing over drain from underground on both sides.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Type: Electric

Length (inches): 0

Location: Underground

Photo 1 Direction: North

Comments:

Underground electrical approximately 175' south of drain.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility37

Observation Location:

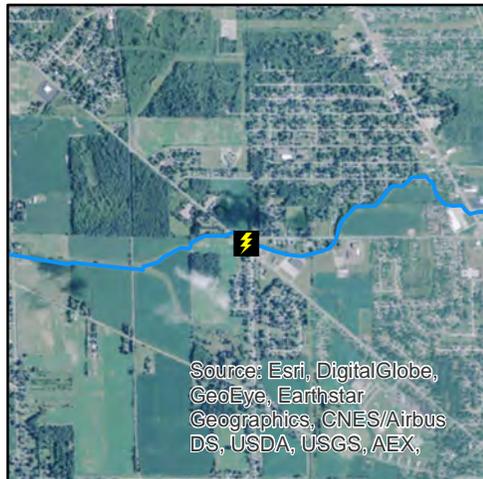


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: North

Comments:

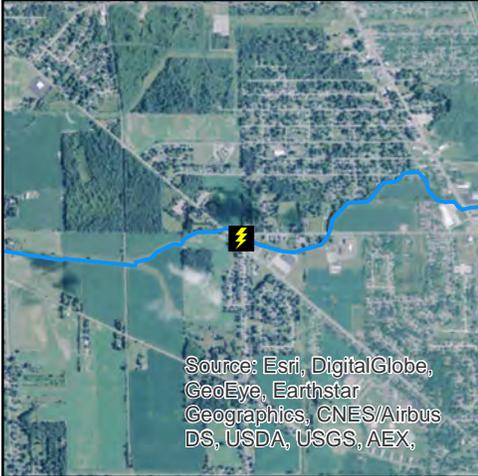
Large electrical pole 75' south of drain with wires overhanging approximately 100' over the drain.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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				JOB #:	20160331

King Street Tile Drain Inspections

Observation Location:



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: North

Comments:

Two large utility poles immediately on either side of drain with electrical going approximately 75' over drain.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Observation Location:

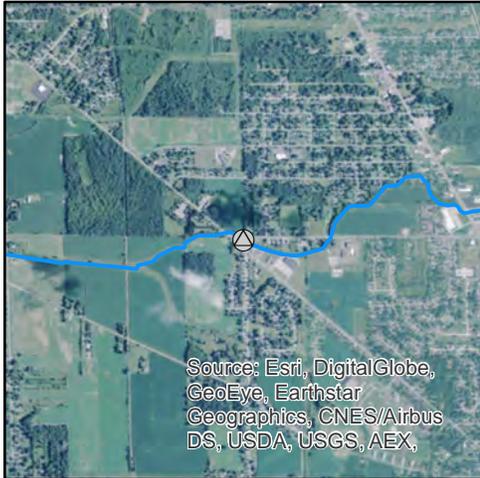


Photo 1



Type: Fiber Optics

Length (inches):

Location: Underground

Photo 1 Direction: Facing Downstream

Comments:

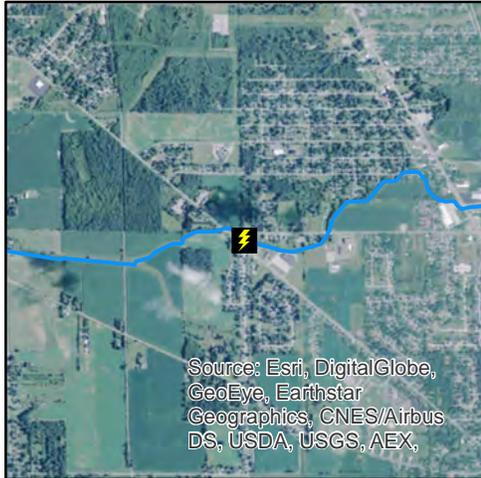
Approximately 10' to the south of drain.
Fiber optic cable buried notice.

Photo 2

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King Street Tile Drain Inspections

Observation Location:



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: Facing Upstream

Comments:

Approximately 25' south of the drain there are two utility poles with overhanging wires 100' apart.

Photo 1



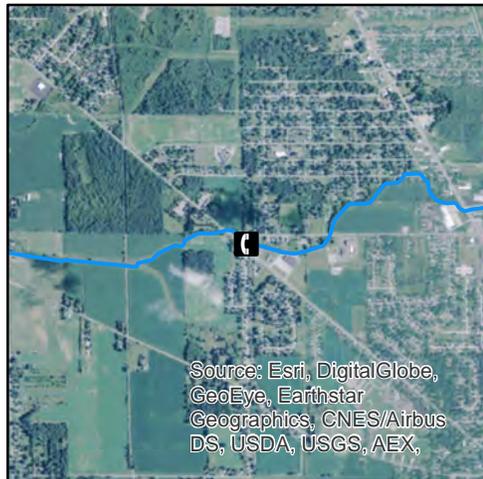
Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility41

Observation Location:



Type: Phone

Length (inches):

Location: Underground

Photo 1 Direction: Facing Upstream

Comments:

Approximately 40' south of drain there's a buried phone line.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Observation Location:

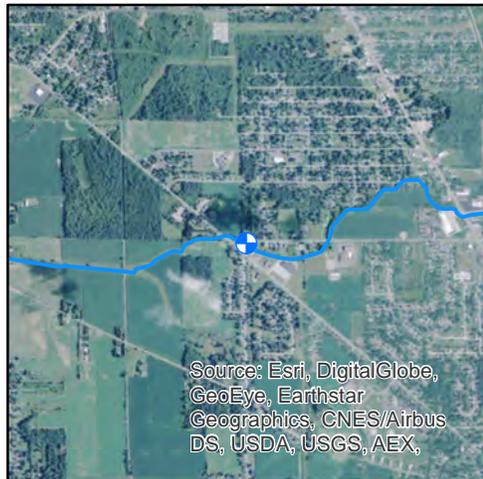


Photo 1



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction: South

Comments:

Underground watermain indicated by fire hydrant approximately 45' north of drain.

Photo 2

CLIENT	Saginaw County Public Works Commissioner		555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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				JOB #:	20160331

King Street Tile Drain Inspections

Observation Location:

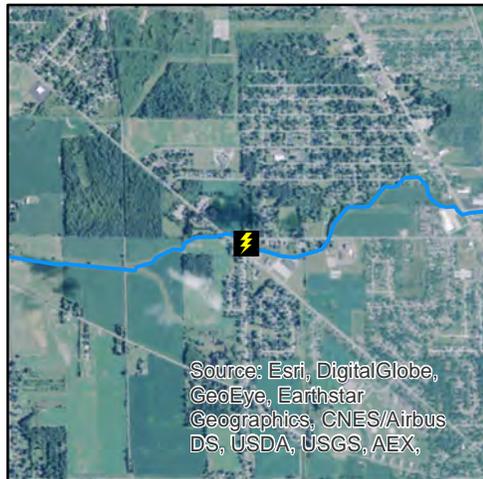


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: Facing Upstream

Comments:

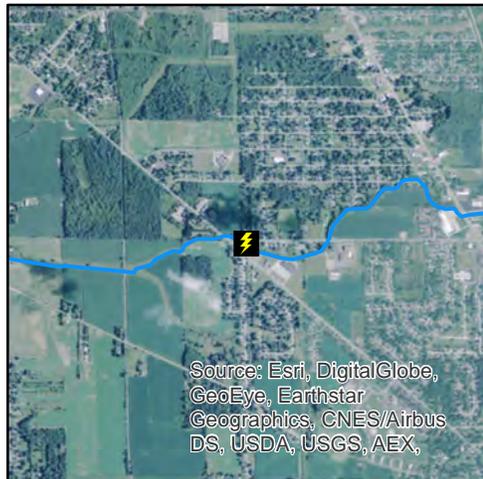
Beginning over drain at crossing and going for the next 500' approximately 20' north of drain and 100' above it.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: Facing Upstream

Comments:

Approximately 50' north of drain for next 500'.

Photo 1



Photo 2

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				SCALE:	
NOTE				SHEET #:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility45

Observation Location:

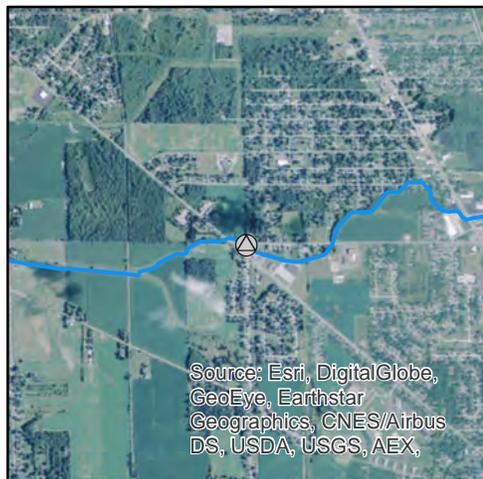


Photo 1



Type: Fiber Optics

Length (inches):

Location: Underground

Photo 1 Direction: Facing Downstream

Comments:

Approximately 15' north of drain.

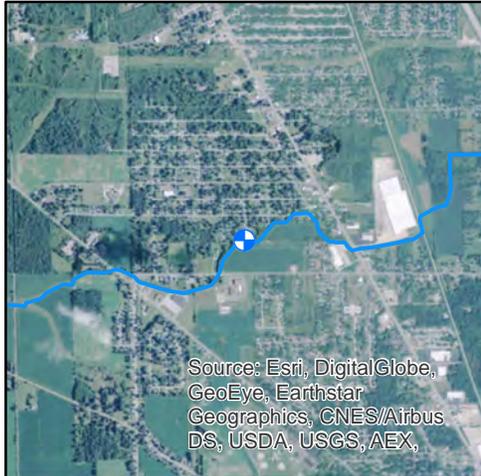
Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility46

Observation Location:



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction: South

Comments:

Underground watermain 30' north of drain.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility47

Observation Location:

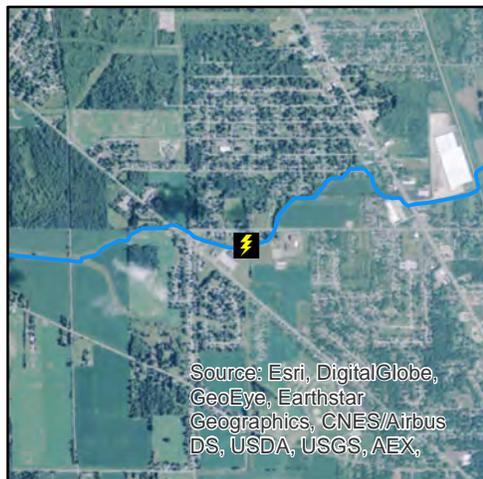


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: East

Comments:

Utility overhead on right side of drain.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility48

Observation Location:

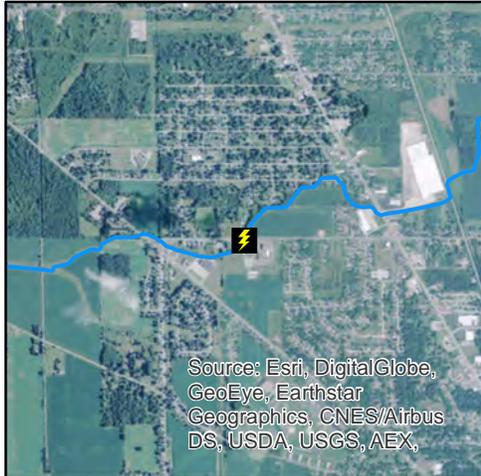


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: West

Comments:

Utility overhead crossing over drain parallel with King Street.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Observation Location:

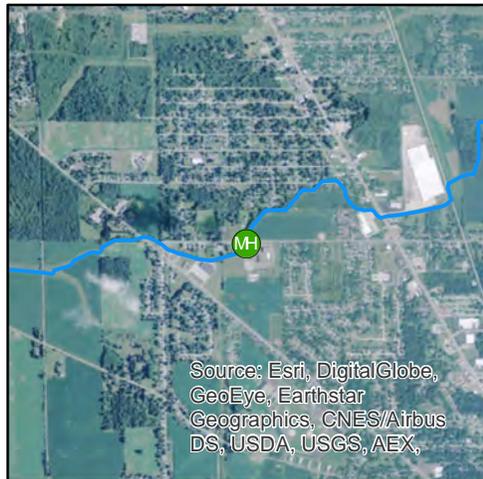


Photo 1



Type: Storm Manhole

Length (inches):

Location: Underground

Photo 1 Direction: North

Comments:

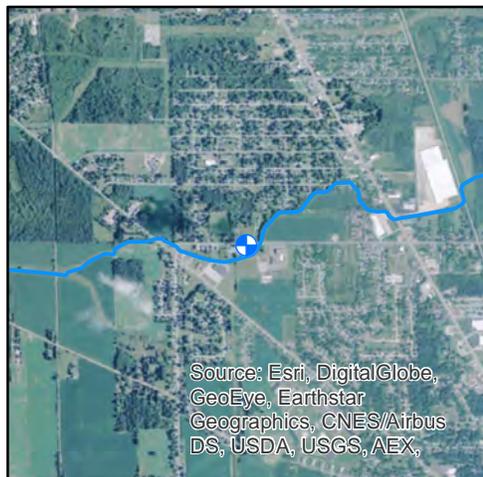
Stone storm manhole about 5 ft from road.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
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King Street Tile Drain Inspections

Observation Location:



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction: East

Comments:

Fire hydrant about 5 ft from road. About 260 ft west of drain.

Photo 1

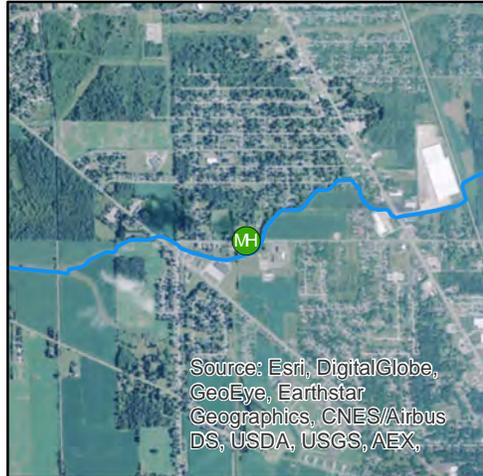


Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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King Street Tile Drain Inspections

Observation Location:



Type: Storm Manhole

Length (inches):

Location: Underground

Photo 1 Direction: North

Comments:

Storm manhole about 5 ft from road and about 260 ft west of drain.

Photo 1



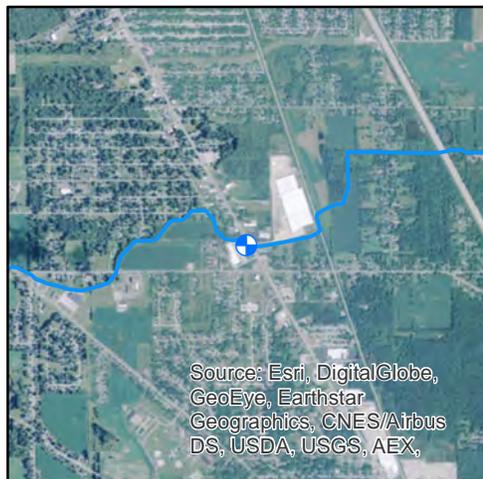
Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016	
				SCALE:		
NOTE					SHEET #:	
					JOB #:	20160331

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility52

Observation Location:



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction: Northwest

Comments:

Existing watermain West side of Dixie Hwy. Picture facing Northwest.

Photo 1

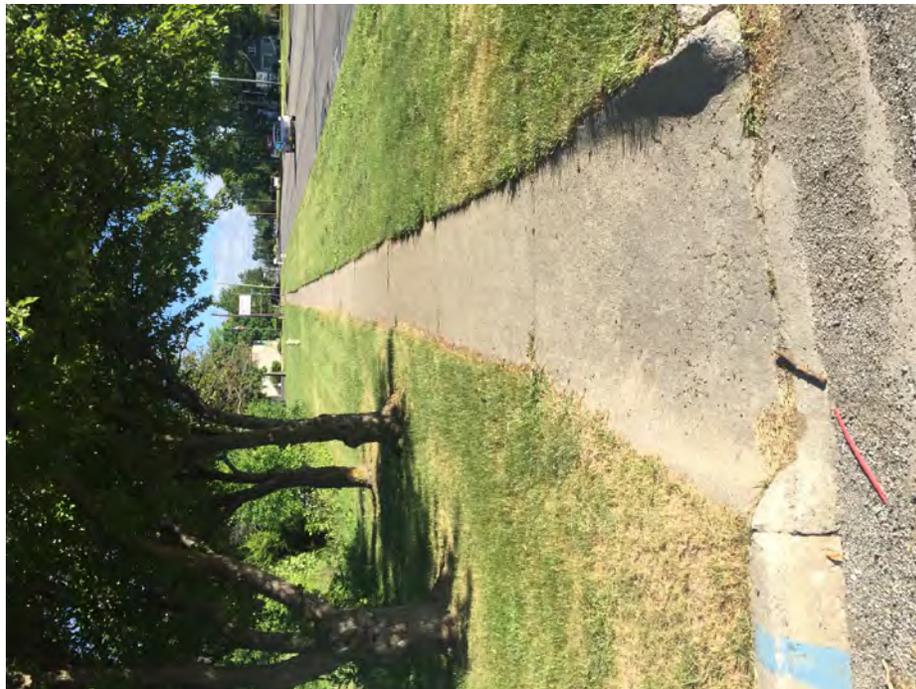


Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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				JOB #:	20160331

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility53

Observation Location:

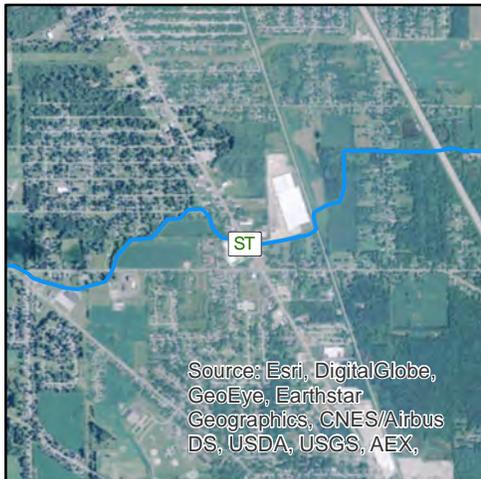


Photo 1



Type: Storm Sewer

Length (inches):

Location: Underground

Photo 1 Direction: Northwest

Comments:

Ex catch basin west side of Dixie Hwy.
Picture facing Northeast

Photo 2

CLIENT	Saginaw County Public Works Commissioner		555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility54

Observation Location:

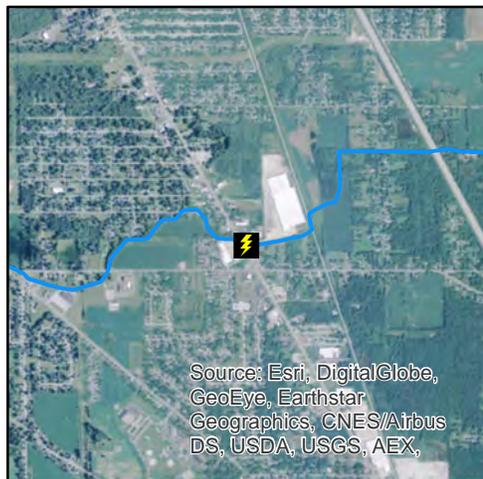


Photo 1



Type: Electric

Length (inches):

Location: Underground

Photo 1 Direction: Facing Upstream

Comments:

Electric meter. Picture facing upstream.

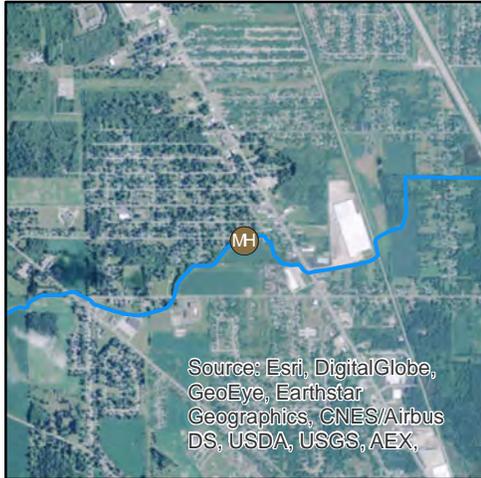
Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility55

Observation Location:



Type: Sanitary Manhole

Length (inches):

Location:

Photo 1 Direction: Facing Upstream

Comments:

On left side of drain, south side of Kansas st crossing.

Photo 1



Photo 2

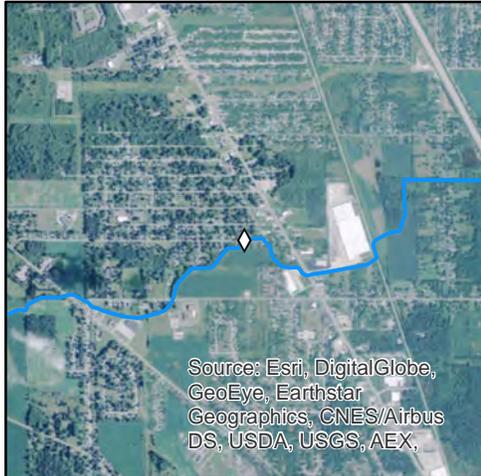


CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility56

Observation Location:



Type: Gas

Length (inches):

Location: Underground

Photo 1 Direction: Facing Upstream

Comments:

On left side of drain, north side of Kansas St. Gas pipeline marker.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner		555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility57

Observation Location:

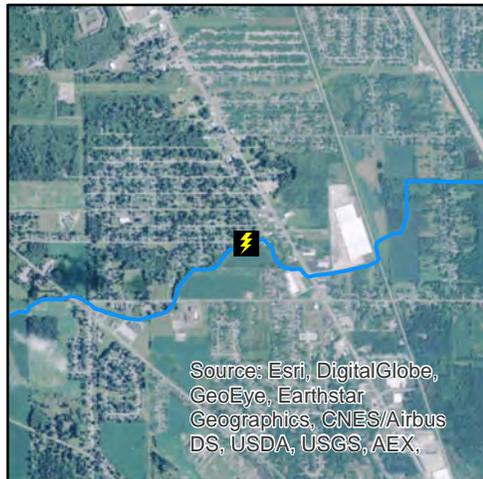


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: South

Comments:

Overhead of drain. On south side of Kansas st. Light is on west side of drain.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility58

Observation Location:

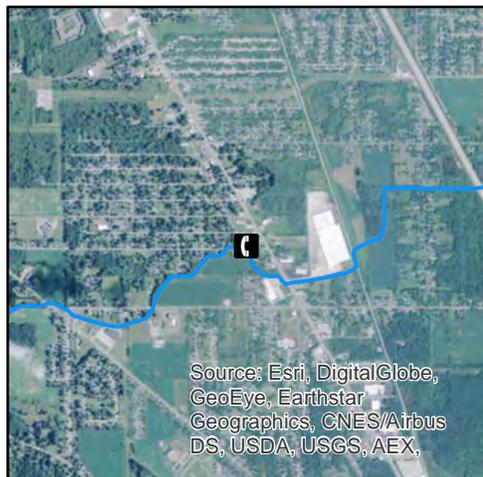


Photo 1



Type: Phone

Length (inches):

Location: Underground

Photo 1 Direction: East

Comments:

56 ft left of drain. About 10 ft left of
Broadway St.

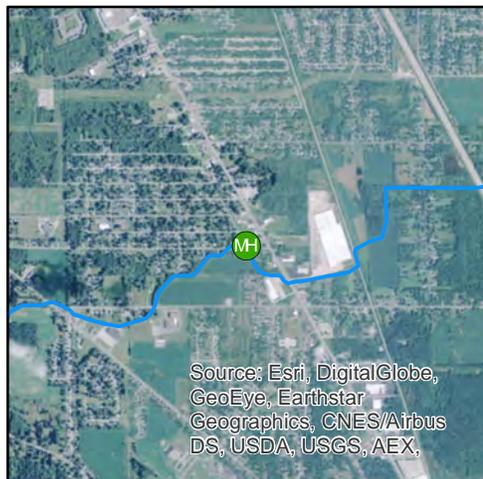
Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
				JOB #:	20160331

King Street Tile Drain Inspections

Inspection Report for Observation:
Utility59

Observation Location:



Type: Storm Manhole

Length (inches):

Location: Underground

Photo 1 Direction: West

Comments:

50 ft left of drain. Steel storm manhole.
About 3 ft left of Broadway St.

Photo 1

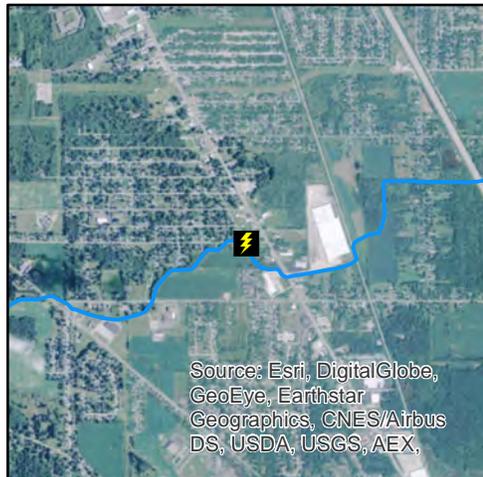


Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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NOTE				SHEET #:	
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King Street Tile Drain Inspections

Observation Location:



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: East

Comments:

Electric overhead crossing drain next to Kansas St.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
				SCALE:	
NOTE				SHEET #:	
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility61

Observation Location:

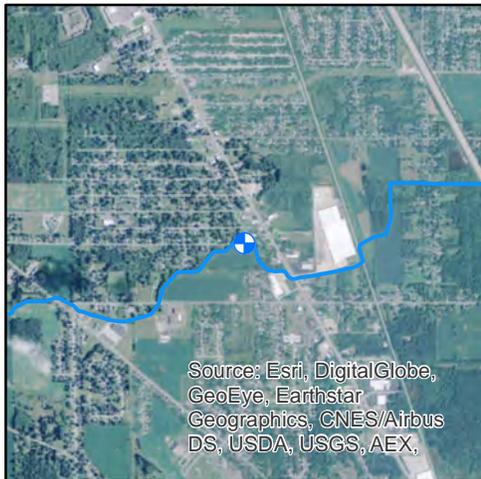


Photo 1



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction: East

Comments:

125 ft right of drain is fire hydrant. Grass clear cut around it.

Photo 2

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King Street Tile Drain Inspections

Observation Location:

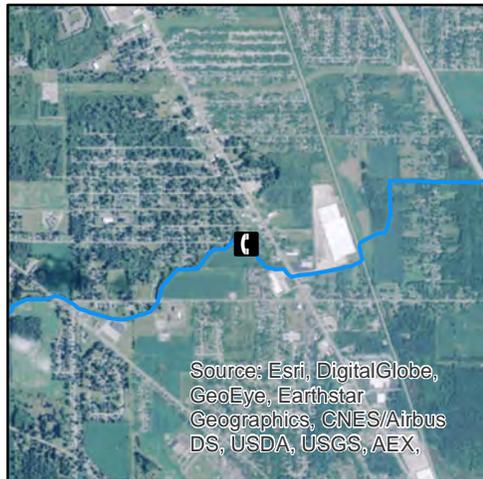


Photo 1



Type: Phone

Length (inches):

Location: Underground

Photo 1 Direction: South

Comments:

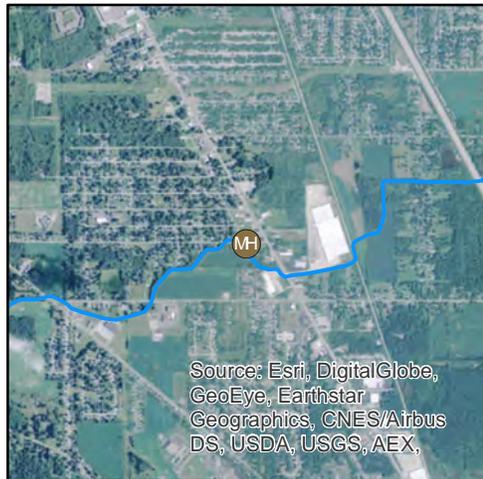
92 ft right of drain. About 7 ft from Kansas Ave. Failed condition- wires smashed, box not assembled.

Photo 2

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King Street Tile Drain Inspections

Observation Location:



Type: Sanitary Manhole

Length (inches):

Location: Underground

Photo 1 Direction: West

Comments:

Sanitary manhole at intersection of Kansas and Broadway. Above upstream side of culvert.

Photo 1



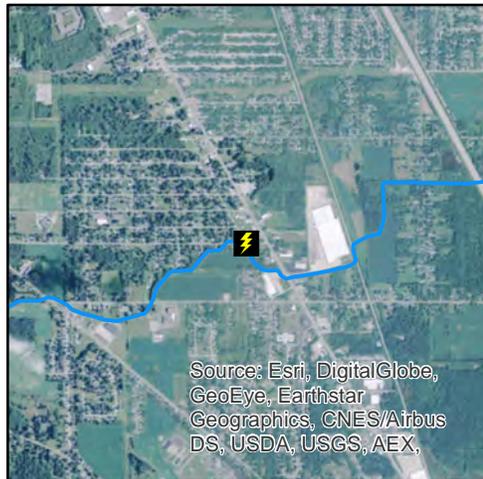
Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility64

Observation Location:



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: East

Comments:

Separate light pole at intersection of Kansas and Broadway. Crosses over Kansas Ave. About 50 ft left of drain.

Photo 1

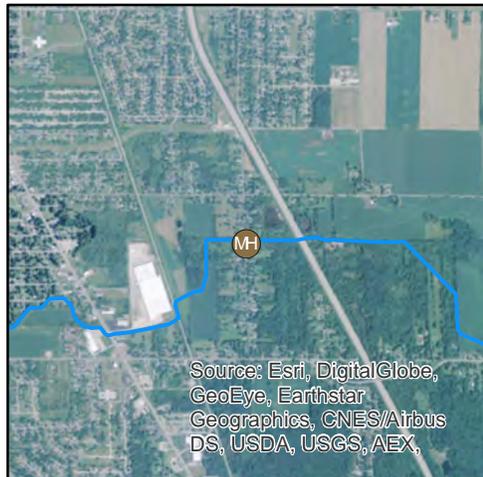


Photo 2

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King Street Tile Drain Inspections

Observation Location:



Type: Sanitary Manhole

Length (inches):

Location: Underground

Photo 1 Direction: North

Comments:

Sanitary manhole 50' south of the drain on the east side of Mack Road. Picture facing north toward drain.

Photo 1

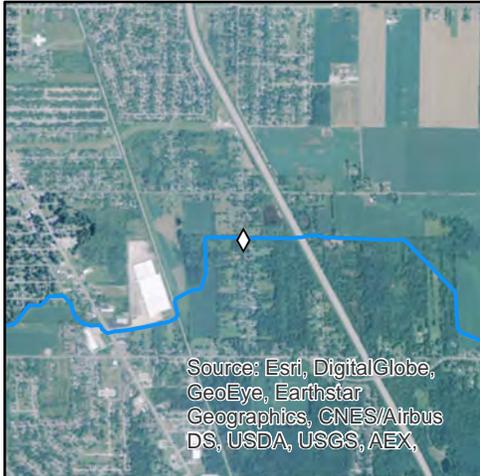


Photo 2

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King Street Tile Drain Inspections

Observation Location:



Type: Gas

Length (inches):

Location: Underground

Photo 1 Direction: North

Comments:

Gas pipeline sign notification 30' south of drain on west side of Mack Road.
Picture one facing north across drain.
Picture two facing west parallel to drain.

Photo 1



Photo 2



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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility67

Observation Location:

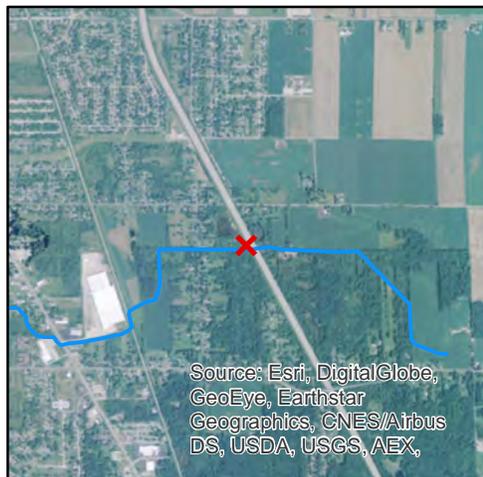


Photo 1



Type: Other

Length (inches):

Location: Underground

Photo 1 Direction: South

Comments:

Manhole 100 ft left of drain. Unknown type. On southbound side of I75.

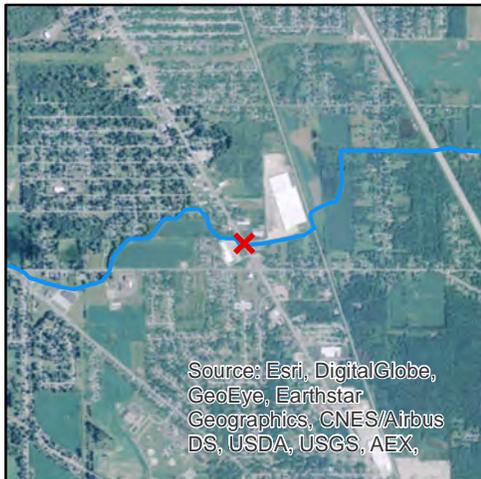
Photo 2

CLIENT	Saginaw County Public Works Commissioner		555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility68

Observation Location:



Type: Other

Length (inches):

Location: Underground

Photo 1 Direction: South

Comments:

Unknown manhole approx. 30' north of drain. Picture facing south across drain.

Photo 1

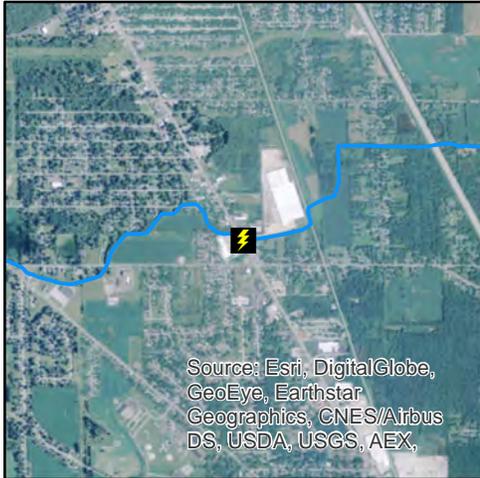


Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: South

Comments:

Electric utility pole directly over underground culvert crossing. Overhead wires crossing drain. All on eastern side of Dixie. Picture facing south.

Photo 1



Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility70

Observation Location:

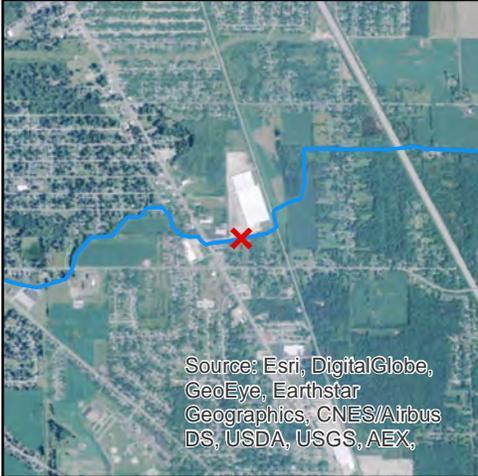


Photo 1



Type: Other

Length (inches):

Location: Other

Photo 1 Direction: South

Comments:

Unknown 2" galvanized pipe going across the drain creating a little bit of a blockage. Picture facing south across the drain.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility71

Observation Location:

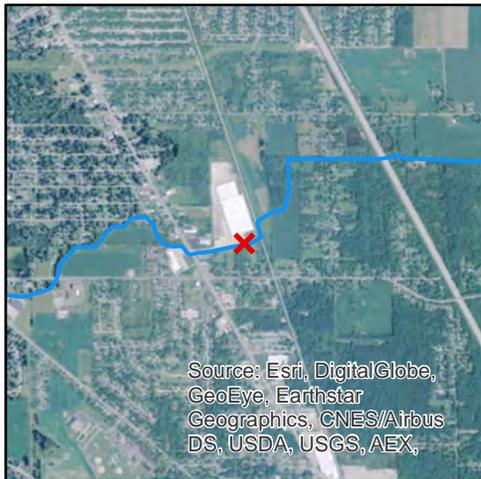


Photo 1



Type: Other

Length (inches):

Location: Other

Photo 1 Direction: Facing Upstream

Comments:

Unknown galvanized 3" pipe going across drain causing a blockage of flow. Picture facing upstream.

Photo 2

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King Street Tile Drain Inspections

Observation Location:

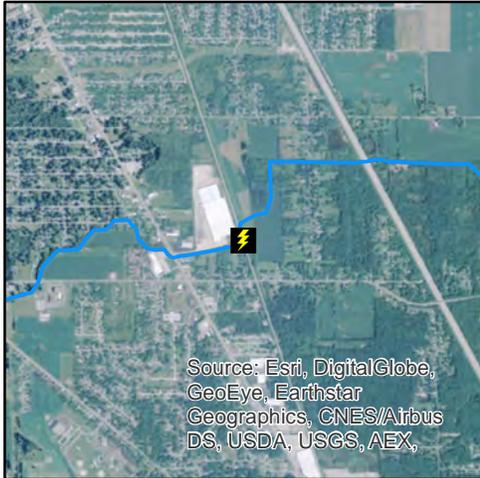


Photo 1



Type: Electric

Length (inches):4200

Location: Overhead

Photo 1 Direction: Facing Upstream

Comments:

Utility poles and overhead electrical wires for next 350' to end on left side of drain facing upstream within 10' of east side of drain. Very low hanging, at most 20' about the drain. May not be in use.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility73

Observation Location:

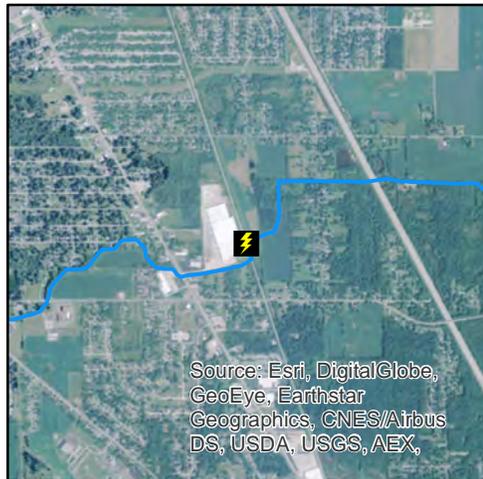


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: North

Comments:

Electrical overhead wires are low hanging and cross the drain at this location. Better description 500' downstream point. Picture facing north.

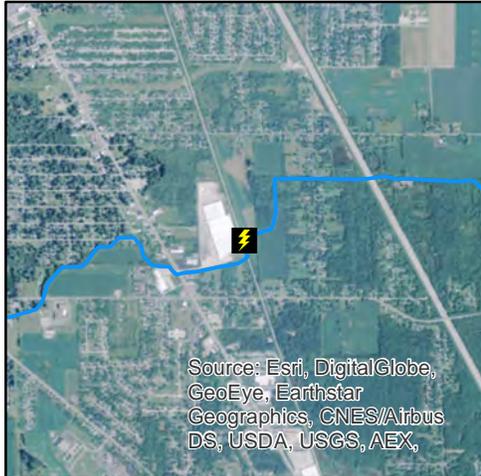
Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility74

Observation Location:



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: North

Comments:

High voltage transmission tower 100' north of drain with wires crossing overhead across the drain. Picture facing north across the drain.

Photo 1



Photo 2

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King Street Tile Drain Inspections

Observation Location:

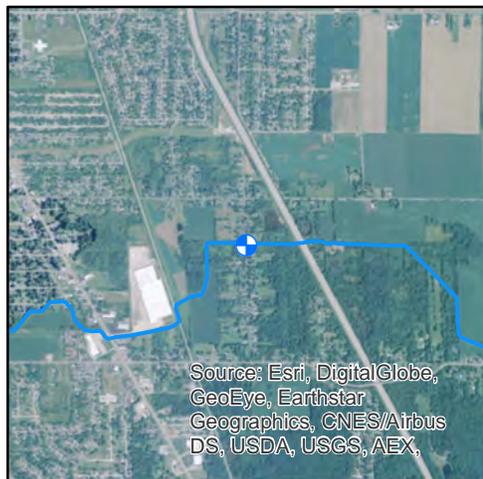


Photo 1



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction: South

Comments:

Watermain west side of Mack road.
Picture facing south

Photo 2

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King Street Tile Drain Inspections

Observation Location:

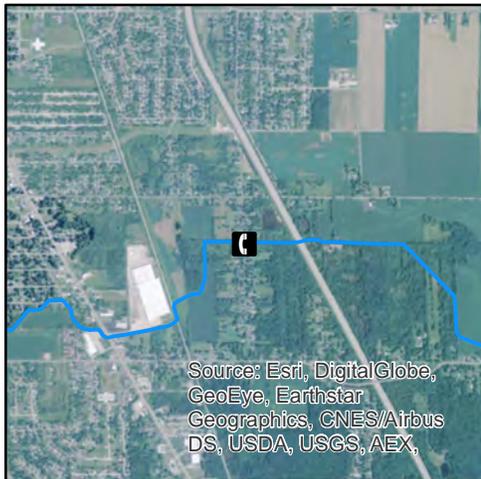


Photo 1



Type: Phone

Length (inches):

Location: Overhead

Photo 1 Direction: North

Comments:

Overhead Ameritech crossing the drain west side of Mack Road. Picture facing north.

Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility77

Observation Location:

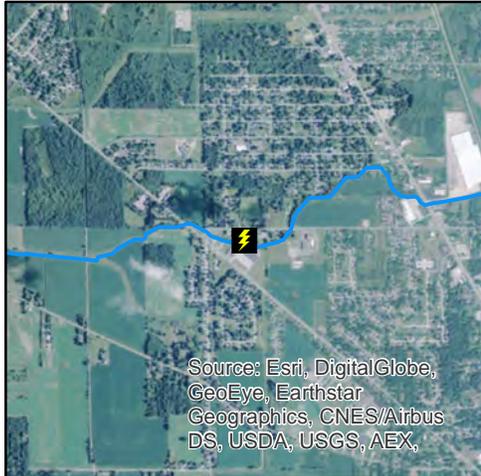


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: South

Comments:

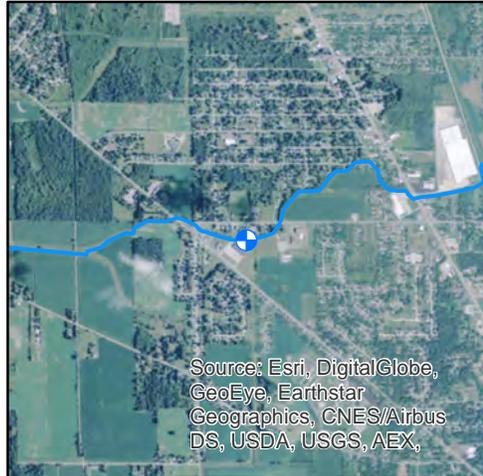
Wooden utility pole 30' north of drain with overhanging wires running parallel to the drain about 75' overhead.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction: South

Comments:

Underground watermain indicated by fire hydrant approximately 40' south of the drain. Picture taken from north bank.

Photo 1



Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016	
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King Street Tile Drain Inspections

Observation Location:

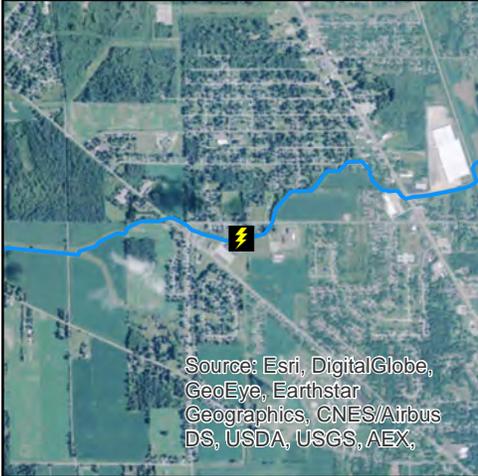


Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: Southeast

Comments:

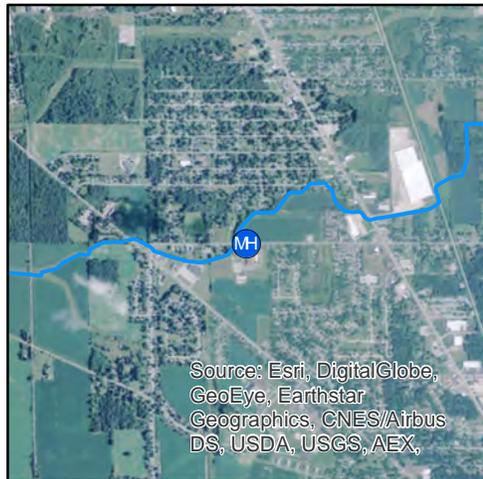
Large electrical tower 30' southeast of the drain. Several lines crossing drain for previous 100' to this location. Picture from north side bank.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Type: Water Main Manhole

Length (inches):

Location: Underground

Photo 1 Direction: West

Comments:

Fire hydrant about 5 ft from road. About 260 ft east of drain.

Photo 1



Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility81

Observation Location:

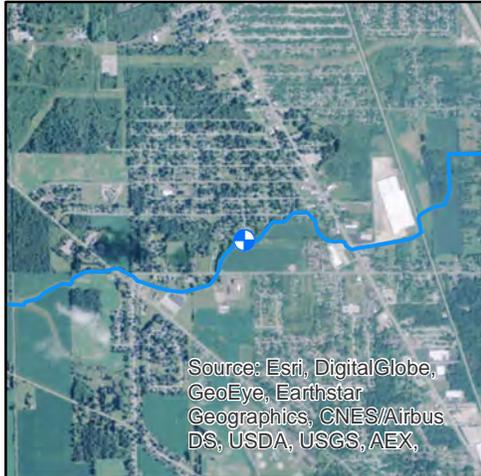


Photo 1



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction: East

Comments:

Fire hydrant about 20 ft west of drain.

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Observation Location:



Photo 1



Type: Electric

Length (inches):

Location: Overhead

Photo 1 Direction: Facing Upstream

Comments:

Overhead electric and phone running parallel to King road in drain centerline. Picture facing upstream

Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility83

Observation Location:



Photo 1



Type: Water Main

Length (inches):

Location: Underground

Photo 1 Direction: East

Comments:

Existing watermain South side of King street. Picture facing east

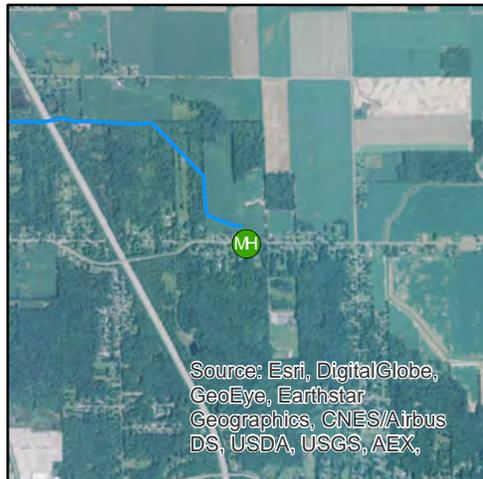
Photo 2

CLIENT	Saginaw County Public Works Commissioner	 HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915	555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com	DATE:	08/16/2016
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King Street Tile Drain Inspections

Inspection Report for Observation:
Utility84

Observation Location:



Type: Storm Manhole

Length (inches):

Location: Underground

Photo 1 Direction:

Comments:

Beehive catch basin South side of King street at the end of the upstream end of described legal drain. Picture facing downstream

Photo 1



Photo 2

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