


MEMORANDUM

TO: Michael G. Lewis, City Engineer/Director of Public Works
FROM: Brian D. Block, Traffic & Utility Technician 
DATE: July 8, 2010
RE: Claim Against the City of West Allis by Badger Underground LLC and Globe Contractors, Inc. for repair work on failed sanitary lateral riser connection at 1433 S. 57 St. including a spot sanitary relay with riser connection for 1432 S. 57 St.

SUMMARY

Badger Underground LLC was hired by the property owner who was experiencing a back up of the sewer water at the property addressed 1433 S. 57 St.

Badger Underground LLC excavated in the pavement area at 1433 S. 57 St. and found the riser section completely missing. Badger Underground LLC excavated to the wye connection, which was determined to be failed.

I instructed Badger Underground LLC to make a sanitary spot relay with sanitary lateral reconnections for 1433 S. 57 St. and 1432 S. 57 St.

Badger Underground LLC hired Globe Contractors to excavate and make the spot relay with connections.

Badger Underground LLC completed the reconnections and placed concrete pavement.

FINDINGS & OBSERVATIONS

- **Existing conditions and utilities in S. 57 St. at the address 1433 S. 57 St.**

The pavement at 1433 S. 57 St. is a 30 ft. wide 7 in. thick concrete pavement centered in a 60 ft. right of way. Both sides of the street have concrete sidewalks.

The City of West Allis underground utilities in S. 57 St. at the above-referenced address consist of the following:

UTILITY	YEAR INSTALLED	LOCATION
6 in. cast iron water main	1915	24 ft. west of east RoW line
18 in. clay sanitary sewer	1910	27 ft. west of east RoW line
12 in. concrete storm sewer	2000	26 ft. east of west RoW line

City records indicate that the existing sanitary sewer lateral at 1433 S. 57 St. is a 6 in. clay pipe installed in 1921.

On February 15, 2010, West Allis Public Works Crews repaired a break on the 6 in. water main at the addressed location 1432 S. 57 St., listed at 59 ft. north of sanitary manhole.

On March 9, 2010 West Allis Public Works Crews repaired a service leak for service for the addressed property of 1432 S. 57 St. at the water main with a 5/8 in. corporation connection and 6 ft. of 3/4 in. copper pipe out from the water main. This repair was the service for 1433 S. 57 St.

CHRONOLOGY

05/14/10

Property owner, Gregory Zingler, called West Allis Streets and Sanitation and claimed that the property was experiencing a sewage backup in the basement at 1433 S. 57 St. I met with Jim Caylor, West Allis Streets and Sanitation Supervisor and Mr. Zingler in front of the property.

Mr. Zingler said that he "had Rotor Rooter out a couple of days ago and they failed to open the line and could only get the auger and cable out about 45 ft. from the building and were pulling back mud". Jim Caylor stated that he had a crew out today and found that the City sanitary sewer main was flowing free with no backed up conditions observed.

I instructed Mr. Zingler that the property owner owns and maintains the property lateral up to the connection to the main. I explained to him that the City installed the main in 1910 and that an owner of this property connected to the main in 1921.

Mr. Zingler said that he suspected that the recent City water main repairs in the pavement in front of his property were responsible for the sewer backup that he was experiencing. I explained to Mr. Zingler that the City would not excavated to repair his lateral unless proof existed that the City was negligent in some fashion. I advised him to hire a plumber to find and repair any damages on the sanitary lateral to his property.

05/17/10

A representative for Badger Underground, LLC came to the Engineering Department for a quote and information regarding the lateral and main at 1433 S. 57 St. He stated that he was hired by the property owner and that his company inserted a video camera in from the building side and could push the camera out to approximately 3 ft. west of the sanitary main and appeared to be stopped by clay.

5/19/10

West Allis Excavation Permit No. 6842 was issued to Badger Underground, LLC for a sanitary lateral repair. Badger Underground LLC mobilized on site and began the excavation for the sanitary lateral repair. The backfill excavated by Badger Underground LLC for the sanitary lateral repair included stone chips from the recent City water service repair. Badger Underground LLC discovered the City's repair coupling approximately 4 ft. west of the water main.

It was slightly west of this location that a pocket of sanitary sewage began oozing up into the bottom of the excavated area from below. Badger Underground LLC determined the depth to the bottom of trench was approximately 8 ft. Badger Underground LLC was still excavating stone chips from the water service repair.

5/20/10

Badger Underground LLC excavated down to the lateral to 1433 S 57 St., found at approximately 12 ft. down from the pavement surface and 4 ft. west of the sanitary main. The riser connection was not found or connected to the lateral.

When exploring for the riser using a probe and hand excavation methods only, chips from the pipe could be located. Badger Underground LLC excavated to a depth of approximately 18 ft. and located the connection to the sanitary main, along with the connection for 1432 S. 57 St., found at 3 ft. south of the 1433 S. 57 St. connection. Badger Underground LLC was at the limit of the equipment that they had mobilized.

5/21/10

Badger Underground LLC arranged for Globe Contractors to mobilize on site with a crew and equipment capable of excavating to depths of over 20 ft. Note that Globe Contractors were working on the storm sewer in S. 67 Pl. on Capital Improvement Project Number 2010-2, but were shut down due to rain and the inability to dump excavated materials.

Globe Contractors and Badger Underground LLC completed the spot sanitary relay using 8.17 ft. of 18 in. PVC pipe, and two ferncos. They began two sanitary lateral reconnects using 2 clamp-on tee connections, and (2) 5 ft. sections of 6 in. PVC pipe. Stone chip bedding and cover was used up to and above the sanitary main.

5/22/10

Badger Underground LLC with one Globe Contractor operator and backhoe completed the sanitary lateral reconnects for 1433 S. 57 St. and 1432 S. 57 St. using (3) 45° x 6 in. bends, (2) 22-1/2° x 6 in. bends, and 13.8 ft. of 6 in. PVC pipe. Slurry backfill was used to up to the depth of the existing water main; then the area was backfilled using recycled material that was consolidated by flushing with water.

5/24/10

Badger Underground LLC completed the backfill and consolidation by flushing with water. Badger began to prepare the pavement restoration.

5/27/10

Badger Underground LLC placed concrete for pavement restoration of the trench area.

6/4/10

Barricades were removed and pavement opened for public use.

CONCLUSIONS/RECOMMENDATIONS

It is my opinion that a failure of the riser to the sanitary main existed at 1433 S. 57 St.

I've concluded that the obliterated riser caused a back-up and non-draining condition for the resident at 1433 S. 57 St.

I am recommending a payment of \$20,333.00 to Badger Underground LLC, which is the amount of the Badger Underground LLC. invoice dated 6-15-10.

I am recommending a payment of \$6,627.08, to Globe Contractors Inc., which is the amount of the Globe Contractors Inc. invoice dated 7-2-10.

BDB

cc (via email) Joseph Burtch
Michael Scherer



JEFF

NO. 10/66

BADGER UNDERGROUND LLC.

W148 N7230 WOODLAND DR. MENOMONEE FALLS WI. 53051

Phone: (262)502-1220 Fax: (262)252-4148

THE SUBTERRANEAN PLUMBERS

CONTACT PERSON:

PHONE NO:

DATE:

6-15-10

NAME:

City of West Allis

ADDRESS:

CITY, STATE, ZIP:

QUANTITY	DESCRIPTION	PRICE	AMOUNT
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Job 1433 S. 57th St.

• Repair sanitary sewer

• 5-19-10 9 hours at \$323. per hr.

3 man crew

Excavator

Tri Axle dump

Quad Axle dump Sub Total \$2,907.⁰⁰

• 5-20-10 12 hrs. at \$323. per hr.

3 man crew

Excavator

Tri Axle dump

Quad Axle dump Sub Total \$3,876.⁰⁰

In Voice



NO. 10/66

BADGER UNDERGROUND LLC.

W148 N7230 WOODLAND DR. MENOMONEE FALLS WI. 53051

Phone: (262)502- 1220 Fax: (262)252-4148

THE SUBTERRANEAN PLUMBERS

CONTACT PERSON:

PHONE NO:

DATE:

6-15-10

NAME:

City of West Allis

ADDRESS:

CITY, STATE, ZIP:

QUANTITY

DESCRIPTION

PRICE

AMOUNT

• 5-21-10 12 hours at \$258. per hr.

3 man crew

Excavator

Tri Axle dump

Sub Total \$3,096.⁰⁰

• 5-22-10 10 hours at \$258 per hr.

3 man crew

Excavator

Tri Axle dump

Sub Total \$2,580.

In Voice



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BADGER UNDERGROUND LLC.

W148 N7230 WOODLAND DR. MENOMONEE FALLS WI. 53051

Phone: (262)502-1220 Fax: (262)252-4148

THE SUBTERRANEAN PLUMBERS

CONTACT PERSON:

PHONE NO:

DATE:

6-15-10

NAME:

City of West Allis

ADDRESS:

CITY, STATE, ZIP:

QUANTITY

DESCRIPTION

PRICE

AMOUNT

Job 1433 S. 57th.

- Back fill and clean site
- 5-24-10 6 hrs. at \$213 per hr.

Excavator

Tri Axle dump Sub Total \$1,278

2 man crew

- Concrete road

- 5-27-10 6 hrs at \$135 per hr.

3 man crew

Sub Total \$810.

In Voice

NO. 10/66

BADGER UNDERGROUND LLC.

W148 N7230 WOODLAND DR. MENOMONEE FALLS WI. 53051

Phone: (262)502- 1220 Fax: (262)252-4148

THE SUBTERRANEAN PLUMBERS

CONTACT PERSON:

PHONE NO:

DATE:

6-15-10

NAME:

City of West Allis

ADDRESS:

CITY, STATE, ZIP:

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	Sawcut Concrete		\$ 690.
	Trench Box		625.
	27 yd slurry at \$49 per yd		1,323.
	5 yd Concrete		725.
	12 concrete pins		36.
	8'- 18" sch 35 pipe		\$ 160.
	2- 18" Fernco non shear coupling		900.
	2- 18" x 6" saddle		270.
	6- yds chips		132.
	26- yds Backfill gravel		364.
	1- 3/4" lead pack		36.
	8'- 3/4" copper		16.
	10'- 6" Sch 35 pipe		30
	5- 6" Sch 35 Fittings		65.
	2- 6" Fernco		52.
	Barricades		362.
	<u>In Voice</u> Sub Total		\$5,786.



NO. 10/66

BADGER UNDERGROUND LLC.

W148 N7230 WOODLAND DR. MENOMONEE FALLS WI. 53051

Phone: (262)502- 1220 Fax: (262)252-4148

THE SUBTERRANEAN PLUMBERS

CONTACT PERSON:

PHONE NO:

DATE:

6-15-10

NAME:

City of West Allis

ADDRESS:

CITY, STATE, ZIP:

QUANTITY

DESCRIPTION

PRICE

AMOUNT

Job 1433 S 57

Repair sanitary sewer

Total due \$20.333.⁰⁰

In Voice



N50 W23076 BETKER RD. • P.O. BOX 450 • PEWAUKEE, WISCONSIN 53072
 262-246-0600 • FAX: 262-246-0730

RECEIVED
 JUL 06 2010
 CITY OF WEST ALLIS
 ENGINEERING DEPT

Invoice No. 070210

INVOICE

Name	City of West Allis	Date	07/02/10
Address	7525 W. Greenfield Ave.	Order No.	Job 300-10
City	West Allis State WI ZIP 53214	Rep	
Phone	414-302-8372	FOB	

Qty	Description	Unit Price	TOTAL
	57th & Greenfield		
1	18" Sewer Repair at above location 5/21/10	\$6,627.08	\$6,627.08

Payment Details

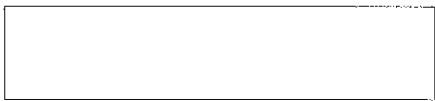
Cash
 Check
 Credit Card

Name _____

CC # _____

Expires _____

SubTotal	\$6,627.08
Shipping & Handling	\$0.00
Taxes	
TOTAL	\$6,627.08



Thank you for your business!

GLOBE CONTRACTORS, INC.
N50 W23076 BETKER RD.
PEWAUKEE, WI 53072
262-246-0600
FAX: 262-246-0730

PROJECT: West Allis Sewer Repair	LOCATION: 57th & Greenfield
DATE: 5/21/10	Hotline Ticket #
FOREMANS DAILY REPORT	

LABOR						EQUIPMENT			
Employee Name	Reg Hrs	Reg Rate	OT Hrs	OT Rate	Amt.	Unit	Hours	Rate	Amt.
05/21/2010						Volvo Backhoe	12.50	100.00	1250.00
Markus Thomsen	4.50	66.00	8.00	89.00	1009.00	1 - 3" Trash pump	8.00	25.00	200.00
Bob Ribar	4.50	66.00	8.00	89.00	1009.00	Foreman Truck	12.50	15.00	187.50
Bob Grandaw	5.00	66.00	7.50	89.00	997.50	Lowboy	6.00	60.00	360.00
Ron Mullens	4.00	63.00			252.00	Volvo Backhoe 5/22	3.00	100.00	300.00
05/22/2010						Road plates	4.00	30.00	120.00
Bob Ribar			3.00	89.00	267.00				
05/24/2010									
Ron Mullens	2.00	63.00			126.00				
						Total Equipment			\$ 2,417.50
						MATERIALS			
Total Labor					\$ 3,660.50				
WORK ACCOMPLISHED & REMARKS:									
18" sewer repair, 24' deep.									
						Total Materials		\$ -	
						COST OF WORK ACCOMPLISHED			
						Total Labor		3,660.50	
						Total Material		0.00	
						Total Labor & Material		3,660.50	
						plus 15% overhead profit		549.08	
						Total		4,209.58	
						Total Equipment		2,417.50	
						Total Cost		\$ 6,627.08	