



**City of Hot Springs
Engineering Department**

January 14, 2015

Mr. Mo Shafii
Arkansas Dept of Environmental Quality
Asst. Chief
Water Division

133 Convention Blvd.
Post Office Box 700
Hot Springs National Park,
Arkansas 71902
(501) 321-6861
(501) 321-6967 Fax

Mr. Shafii,

This document will serve to further clarify the discussion we had on 1/12/15 related to the SSO occurrence(s) involving Manhole #1750. This will include the root cause of the overflow, actions taken to date and planned activities to mitigate the reoccurrence of an overflow at this site.

Report of Overflow (SSO): Hot Springs Utilities personnel were notified of an overflow at this site (M.H. #1750) on 12/8/14. Upon receiving notification Utilities staff responded to the site and discovered the manhole had in fact overflowed but was not doing so at the time staff arrived. It was evident an overflow had occurred based on wastewater stream debris in the area surrounding manhole #1750. Staff notified ADEQ of the overflow and began to address cleanup of the area and applied disinfectant once site cleanup was in order. Staff then began to place additional containment devices (i.e. fencing, hay bales, etc.) around the area to mitigate the potential for any additional overflows to reach the adjacent water stream.

Approximately one week later another occurrence of an overflow at this site was reported. The measures previously put in place had helped in reducing the overflow debris from the water stream but once again the overflow stream had escaped the containment. The SSO was documented in accordance with ADEQ requirements and included in the monthly overflow report to ADEQ.

Staff once again performed site cleanup in accordance with department procedures and disinfected the area. At that time staff noted both overflows had occurred during periods of little or no rain. Staff checked the pump station and determined it had not malfunctioned and was not the cause of the overflow. That lead staff to further investigate and the result was the discovery of a ~2 ½ foot long log lodged in the wastewater main near the pump station bar screen. This debris was not allowing full pipe flow into the station, that was confirmed when manhole #1750 was inspected and found to be surcharged with the pump station wet-well at a normal level. Staff removed the blockage and the flows to the station were observed and noted to be more "normal". The # 1750 manhole was then visually inspected and the manhole was not surcharged.

Corrective Action #1: Manhole Monitoring

At that time staff began to discuss a method to enable monitoring of the level within the manhole. As of this time staff is working to modify one of our Grinder Alert components and adapt it for this use. The plan is to have this alert type device in place within the next week. Staff has also begun to perform a site inspection of the manhole during rain events. While we all recognize this overflow was not weather related we are attempting to mitigate an overflow, no matter the reason, in the future.

Corrective Action #2 – Manhole Rehab and Post Rehab Flow Monitoring

This Gulpha Basin is also scheduled for Post Rehab Flow Monitoring in the second quarter of 2015, this reflects the same time frame (season) as the original effort performed in 2009. This is

scheduled to coincide with the completion of the current manhole rehab project for Phases III & IV. These projects have a total cost of ~\$2.2MM. This manhole rehab scope of work included replacement or rehab of ~623 manholes in this Gulpha Basin, (30ea) were total replacements and the remaining scope of work involved various levels of rehab, which can be seen on the attached exhibit. Our previous manhole rehab project(s) indicated a significant reduction (~22%) in I&I. This post rehab data will be compared to the initial flow monitoring data collected in 2009, and analyzed to compare the flows, both for dry and wet weather flows, and scorecard the rehabilitation efforts implemented for the tributary area upstream of Manhole #1750. It will also be input into our wastewater model so as to better analyze the effects of our rehabilitation efforts and define the next scope of work in this area. All of this is intended to mitigate overflows, just like our other CAO projects.

Corrective Action #3 – Hydraulic Modeling

We have asked our consulting engineer (RJN) to model this particular portion of our system to identify possible solutions we can put in place now to further assist in our efforts to mitigate this and other overflows. The re-calibration of the model will update the original SECAP recommendations and outline an updated plan moving forward. Modeling will also be done on the interceptor, which includes Manhole #1750, to determine any additional measure that may be taken to further mitigate overflows. In addition to the model effort we are also utilizing Utilities staff to physically walk this wastewater pipeline to identify any deficiencies that may be contributing to the overflow(s). To date staff has walked approximately 50% (~10,000 ft.) of the line.

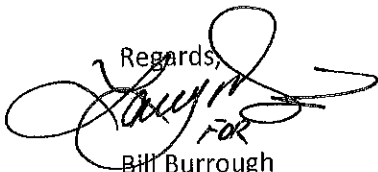
Corrective Action #4 – Physical Inspection

As noted above staff is in the process of performing a visual inspection of the wastewater main that routes to Manhole #1750 and the pump station. To date we have completed our visual inspection of the manholes and ~10,000 ft of the line. This inspection will include inspecting the creek crossing noted in our meeting. This is the location discussed where erosion of the piping encasement was a concern.

The most recent issue involving what appears to be floating grease is also being reviewed by staff. This was reported to Utilities staff by a citizen on 1/10/15. Samples of the floating matter are being collected and will be analyzed by a lab to identify if the matter/grease contains any waste stream components such as fecal matter. Once that analysis has been completed ADEQ will be notified of the lab testing results and any action CHS will take to address the findings.

We (City of Hot Springs) would like to once again take this opportunity to remind everyone involved that we have not diminished our efforts in achieving compliance with the mandates set forth in our 2008 CAO. We continue to develop and implement projects that have and will continue to have an impact on the overall health of our wastewater system. To date we have seen success in our projects and have been recognized for innovation in our use of SCADA related technology. We are committed to stay the course and openly communicate with our regulatory agencies. We again thank you for meeting with us and for working with us as we all pursue the common goal here, being good stewards of our most precious natural resource, clean water. Please do not hesitate to contact me if you require additional information on this matter.

Regards,



Bill Burrough
Deputy City Manager
City of Hot Springs, AR

**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS	
				1	2	3	4	5	6	7	8	9	10	11	12					
1	HS14	2813	110	RIDGE ONE CIR	x			x									NP		8.70	
2	HS14	2814	112	RIDGE ONE CIR	x			x									NP		12.30	
3	HS14	2819	110	RIDGE ONE CIR	x			x									NP		5.70	
4	HS14	2822	207	RIDGE ONE CIR			x	x									NP	1.00	9.80	
5	HS14	2830		BELVEDERE DR	x			x									NP		4.43	
6	HS14	2835	159	BELVEDERE DR			x	x	x								NP	0.83	7.90	
7	HS14	2838	102	RIDGE ONE CIR			x	x									NP	0.33	6.90	
8	HS14	3313		GORGE RD				x									NP		3.70	
9	HS14	3324	100	GORGE RD	x			x									NP		5.48	
10	HS14	3325	100	GORGE RD	x			x									NP		4.99	
11	HS14	3329	100	GORGE RD	x			x									NP		4.02	
12	HS14	3330	100	GORGE RD	x			x									NP		3.90	
13	HS14	3331	100	GORGE RD	x			x									NP		5.60	
14	HS14	3336	100	GORGE RD	x			x									NP		8.09	
15	HS14	3338	100	GORGE RD	x			x									P	0.50	8.39	
16	HS14	3339	100	GORGE RD	x			x									P	0.92	7.55	
17	HS14	3356	100	GRANGER DR											x		NP	1.17	4.77	
18	HS14	3361		SLEEPY VALLEY RD			x	x		x							P	0.50	6.60	
19	HS14	3362	100	GRANGER DR											x		P	0.83	5.70	
20	HS14	3369		SLEEPY VALLEY RD			x	x									P	0.92	6.20	
21	HS14	3376	1620	PARK AVE	x		x	x		x							P	0.25	5.00	
22	HS14	3377		PARK AVE	x			x		x							NP		5.00	
23	HS14	3379	1501	PARK AVE	x			x	x								NP		5.35	
24	HS14	3383		PARK AVE				x									NP		10.10	
25	HS14	3386		PARK AVE			x	x		x							NP	1.17	4.40	
26	HS14	3388	104	FOREST HILLS TRL	x		x	x		x							NP	0.42	3.60	
27	HS14	3389	104	FOREST HILLS TRL	x			x		x							NP		1.80	
28	HS14	3390	110	FOREST HILLS TRL											x		NP		2.60	
29	HS14	3392		PARK AVE											x		NP		3.23	
30	HS14	3393		STONEBRIDGE RD											x		NP		5.30	
31	HS14	3394		STONEBRIDGE RD											x		NP		4.30	
32	HS14	3395		STONEBRIDGE RD											x		NP	3.92	9.50	
33	HS14	3420	2009	PARK AVE				x		x	x						NP		4.10	
34	HS14	3423	2105	PARK AVE	x			x									NP	0.67	3.50	
35	HS14	3425		PARK AVE							x						P		3.30	
36	HS14	3427		PARK AVE			x	x			x						NP	0.92	4.00	
37	HS14	3428	2211	PARK AVE			x	x			x						NP	0.75	3.40	
38	HS14	3429	2324	PARK AVE			x	x		x							NP	0.58	5.10	
39	HS14	3433		PARK AVE	x			x									P		4.70	
40	HS14	3434	2341	PARK AVE				x									NP	0.50	3.20	
41	HS14	3438	2437	PARK AVE	x			x									NP	1.00	5.70	
42	HS14	3882	108	SPRING VALLEY DR	x			x									NP		2.90	

SURFACE TYPE

P - PAVED (See Surface Code)

NP - NON - PAVED (See Surface Code)

WORK ITEM DESCRIPTION

- 1 REPLACE MANHOLE FRAME AND COVER PER D2-2
- 2 REPLACE BOLTED MANHOLE FRAME AND COVER PER D2-2
- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
- 5 GROUT MANHOLE WALL JOINTS & CRACKS PER D2-7
- 6 GROUT PIPE SEALS, LOWER 18" OF MANHOLE INCLUDING BENCH AND TROUGH PER D2-7
- 7 APPLY CEMENTITIOUS COATING TO INTERIOR OF MANHOLE PER D2-8A
- 8 APPLY CEMENTITIOUS COATING TO EXISTING GRADE ADJUSTMENT (VERTICAL INCHES) PER D2-8A
- 9 APPLY EPOXY COATING TO INTERIOR OF MANHOLE PER D2-8
- 10 REPLACE MANHOLE BENCH & TROUGH PER D2-6
- 11 PARTIAL REPLACEMENT OF MANHOLE PER D2-5
- 12 COMPLETE REPLACEMENT OF MANHOLE PER D2-5

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UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS	
				1	2	3	4	5	6	7	8	9	10	11	12					
43	HS14	10168	116	ROCKCLIFF CT			x	x									NP	1.42	5.60	
44	HS14	10563	100	BELVEDERE DR			x	x									NP	0.92	5.30	
45	HS14	10866		SLEEPY VALLEY RD				x									P		5.80	
46	HS14	10867		SLEEPY VALLEY RD				x	x								P	0.17	6.00	
47	HS14	10984														x	NP		6.00	
48	HS14	10987		BELVEDERE DR					x								NP	1.58	5.40	
49	HS14	10989		BELVEDERE DR	x		x	x									NP	0.33	3.40	
50	HS14	10991		BELVEDERE DR	x			x									NP		5.10	
51	HS14	10992		BELVEDERE DR	x		x	x									NP	0.17	3.80	
52	HS14	3891B	104	ROCKCLIFF CT	x			x									NP		2.10	
53	HS18	1983	140	N BORDER TER												x	NP	2.92	7.09	
54	HS18	1984	140	N BORDER TER												x	NP	3.17	6.74	
55	HS18	3268	1061	CASTLEBERRY ST												x	NP		2.70	
56	HS18	3270	1501	SPRING ST												x	P		2.46	
57	HS18	3272		TEXAS ST												x	P		3.80	
58	HS18	3273	214	TEXAS ST												x	P	0.17	4.29	
59	HS18	3948	311	MILLCREEK RD												x	NP		6.20	Replace Additional 10 LF of Pipe
60	HS19	878	105	GROVE ST												x	P	0.75	4.12	
61	HS19	2540	112	PLEASANT ST												x	P		3.48	
62	HS19	2877	740	SPRING ST												x	NP	0.50	3.28	
63	HS19	10583	500	RESERVE ST												x	P		4.49	
64	HS20	3023	220	BARRETT ST												x	P		5.64	
65	HS20	3054	125	LAFAYETTE ST												x	P		3.03	
66	HS20	3218	427	AUTUMN ST												x	P	0.33	3.15	
67	HS20	3222	706	E GRAND AVE												x	P		5.11	
68	HS20	3242	900	E GRAND AVE												x	NP		3.23	
69	HS20	3258	1100	E GRAND AVE												x	P		3.45	
70	HS20	4129	609	RAYMOND ST	x			x									P		11.28	Replace Manhole Corbel Section
71	HS21	1	100	WADE LN	x			x									P		9.40	
72	HS21	2		MONTANA ST	x			x	x	x							NP	1.08	4.50	
73	HS21	3		YANCY ST	x			x									NP			
74	HS21	4	508	APEX ST	x			x									P	1.50	5.50	
75	HS21	7	419	OMEGA ST	x			x	x								P		6.60	
76	HS21	10		DENVER ST				x		x	x						NP	1.33	6.60	
77	HS21	12	108	PIPER ST				x	x	x							NP	0.92	5.70	
78	HS21	13	101	MONTREAL ST	x			x			x						P	1.17	4.00	
79	HS21	14	1115	ILLINOIS ST	x			x			x						P	0.58	3.10	
80	HS21	15	1115	ILLINOIS ST							x						P	0.58	3.40	
81	HS21	16	205	OMEGA ST							x						P		4.40	
82	HS21	17		CYPRESSVALE ST												x	NP	6.33	10.64	
83	HS21	18	121	ALDER ST	x			x			x						P	1.25	5.00	
84	HS21	19	114	ALDER ST	x			x			x						P		2.50	

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				1	2	3	4	5	6	7	8	9	10	11	12				
85	HS21	20	126 MAIDEN ST												x	P	0.92	3.10	
86	HS21	21	509 CRESCENT AVE	x			x		x							P	2.60	5.60	
87	HS21	22	502 CRESCENT AVE	x			x			x						P	0.92	4.60	
88	HS21	23	502 CRESCENT AVE	x			x			x						NP		3.50	
89	HS21	24	490 CRESCENT AVE	x			x			x						NP	0.42	5.40	
90	HS21	25	546 CRESCENT AVE	x			x									NP	0.75	4.40	
91	HS21	26	600 CRESCENT AVE	x			x	x		x						P	1.67	4.90	
92	HS21	27	407 SILVER ST													P	0.25	3.80	
93	HS21	28	622 CRESCENT AVE	x			x									P		3.90	
94	HS21	34	112 FARGO ST								x					P	2.33	10.80	
95	HS21	35	CHATTANOOGA ST												x	P	0.33	3.50	
96	HS21	39	417 CYPRESSVALE ST	x			x			x						P	0.67	3.60	
97	HS21	40	CYPRESSVALE ST							x						P		4.26	
98	HS21	41	CYPRESSVALE ST							x						P		4.36	
99	HS21	42	203 WOODRIDGE ST							x						NP		3.50	
100	HS21	43	309 WOODRIDGE ST	x			x									P	0.67	3.10	
101	HS21	44	601 CYPRESSVALE ST							x						P	1.33	6.00	
102	HS21	46	121 WOODRIDGE ST	x			x			x						P		4.80	
103	HS21	47	107 FULTON ST	x			x									P		5.20	
104	HS21	51	110 PANSY ST	x			x			x						P	0.75	5.30	
105	HS21	52	101 PANSY ST	x			x			x						P		4.20	
106	HS21	54	207 CHESTNUT	x			x			x						P	0.50	3.20	
107	HS21	55	303 ASH ST	x			x			x						P	1.50	5.50	
108	HS21	56	221 ASH ST	x			x			x						P		3.20	City to Relocate Unknown Utility
109	HS21	62	317 CRESCENT AVE				x									NP		4.00	
110	HS21	64	134 JOHN ST				x									P	0.83	5.20	
111	HS21	66	212 ASH ST				x									P	0.50	4.10	
112	HS21	73	201 CRESCENT AVE	x			x	x								NP		4.30	
113	HS21	78	131 ARCH ST				x							x		P		5.50	
114	HS21	79	150 HALTON TER	x			x	x		x						NP	1.00	5.70	
115	HS21	81	128 MICA ST	x			x	x		x						P	1.25	4.60	
116	HS21	82	206 CYPRESSVALE ST	x			x	x		x						P	0.58	3.90	
117	HS21	84	405 CYPRESSVALE ST	x			x			x						P		4.40	
118	HS21	543	402 RILEY ST	x			x			x	x					NP		1.80	
119	HS21	691	415 OMEGA ST	x			x	x	x	x						P	0.50	4.90	
120	HS21	692	300 APEX ST	x			x									P	2.50	9.00	
121	HS21	693	APEX ST	x			x									NP		4.00	
122	HS21	694	DENVER ST	x			x	x								P	0.67	5.70	
123	HS21	723	509 CRESCENT AVE	x			x			x						NP	0.92	3.90	
124	HS21	725	581 CRESCENT AVE	x			x	x	x							NP		5.10	
125	HS21	811	1013 MALVERN AVE	x			x									NP	0.67	5.80	
126	HS21	812	1013 MALVERN AVE	x			x	x								P	1.33	5.10	

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127	HS21	1663	419 OMEGA ST	x			x										NP		6.70	
128	HS21	1664	515 OMEGA ST	x			x		x								NP	1.00	4.60	
129	HS21	1696	793 OMEGA ST	x			x										P		3.10	
130	HS21	1776	201 DETROIT ST	x			x										P	0.50	5.40	
131	HS21	1776	123 DETROIT ST	x			x										NP	0.50	5.50	
132	HS21	1814	240 WADE ST	x			x	x									NP		8.60	
133	HS21	1815	240 WADE ST	x			x										NP		11.10	
134	HS21	1817	240 WADE LN	x			x										NP		7.70	
135	HS21	1822	201 CYPRESSVALE ST	x			x	x									P	0.33	2.70	
136	HS21	1823	300 PORTLAND ST	x		x	x										P	0.83	5.20	
137	HS21	1840	112 FULTON ST	x		x	x	x									NP		1.60	
138	HS21	1848	508 APEX ST				x										P	1.33	5.30	
139	HS21	1849	409 APEX ST	x		x	x										P	0.33	5.10	
140	HS21	2857	312 ASH ST	x		x	x	x									P	0.33	3.80	
141	HS21	2874	DENVER ST				x	x									P	1.42	5.60	
142	HS21	3764	131 ARCH ST				x			x							P		4.80	
143	HS21	3755	1022 PLEASANT ST				x										P	0.67	4.80	
144	HS21	3787	203 NICKELS ST						x	x							P		2.10	
145	HS21	3854	400 DETROIT ST	x			x										P	0.50	5.60	
146	HS21	3855	430 CHATTANOOGA ST	x			x										P	1.17	7.40	
147	HS21	3856	797 OMEGA ST	x			x										P		4.40	
148	HS21	3903	207 PANSY ST	x			x										P	0.67	5.40	
149	HS21	4056	208 MCCLENDON	x			x										NP		4.70	
150	HS21	4057	208 MCCLENDON ST	x			x										NP		7.30	
151	HS21	4058	101 SPRING ST	x		x	x										P	0.67	5.20	
152	HS21	4059	101 MCCLENDON ST	x			x		x								P		5.70	
153	HS21	4060	1911 SPRING ST	x			x										NP		4.70	
154	HS21	4061	1911 SPRING ST	x			x										NP		3.90	
155	HS21	4063	116 HALIFAX ST	x			x										P	0.25	4.60	
156	HS21	4064	110 HALIFAX ST	x			x	x									P		5.20	
157	HS21	4065	102 HALIFAX ST	x			x										P	0.25	6.60	
158	HS21	4066	111 TONEY ST	x			x										P		6.30	
159	HS21	4068	104 TONEY ST	x			x										NP		4.70	
160	HS21	4069	112 BOUNDARY ST	x			x										NP		9.70	
161	HS21	4070	112 BOUNDARY ST	x		x	x										NP	0.33	4.40	
162	HS21	4071	112 BOUNDARY ST	x			x										NP		3.80	
163	HS21	4072	1910 SPRING ST	x			x	x									NP		6.30	
164	HS21	4073	1910 SPRING ST	x			x		x								NP		9.60	
165	HS21	4079	2100 SPRING ST	x			x										NP		11.00	
166	HS21	4080	2120 SPRING ST	x		x	x										NP		11.50	Raise Manhole to Grade
167	HS21	4081	2120 SPRING ST	x			x		x								NP		9.80	Install Inside Drop Connection
168	HS21	4086	140 WAINE ST	x			x	x	x								NP		10.80	

SURFACE TYPE

P - PAVED (See Surface Code)

NP - NON - PAVED (See Surface Code)

WORK ITEM DESCRIPTION

- 1 REPLACE MANHOLE FRAME AND COVER PER D2-2
- 2 REPLACE BOLTED MANHOLE FRAME AND COVER PER D2-2
- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
- 5 GROUT MANHOLE WALL JOINTS & CRACKS PER D2-7
- 6 GROUT PIPE SEALS, LOWER 18" OF MANHOLE INCLUDING BENCH AND TROUGH PER D2-7
- 7 APPLY CEMENTITIOUS COATING TO INTERIOR OF MANHOLE PER D2-8A
- 8 APPLY CEMENTITIOUS COATING TO EXISTING GRADE ADJUSTMENT (VERTICAL INCHES) PER D2-8A
- 9 APPLY EPOXY COATING TO INTERIOR OF MANHOLE PER D2-8
- 10 REPLACE MANHOLE BENCH & TROUGH PER D2-6
- 11 PARTIAL REPLACEMENT OF MANHOLE PER D2-5
- 12 COMPLETE REPLACEMENT OF MANHOLE PER D2-5

**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS
				1	2	3	4	5	6	7	8	9	10	11	12				
169	HS21	4087	194 WAINE PL	x		x	x									P	1.17	5.90	
170	HS21	4088	136 WAINE PL	x			x									P	0.75	5.30	
171	HS21	4089	136 WAINE PL	x		x	x		x							P	0.50	4.50	
172	HS21	4090	120 WAINE PL	x		x	x		x							P	0.92	5.10	
173	HS21	4091	120 HONEYCUTT ST	x		x	x									P	0.83	5.80	
174	HS21	4092	100 HONEYCUTT ST	x			x									P		5.23	
175	HS21	4093	200 HONEYCUTT ST	x			x		x							P		4.20	
176	HS21	4094	208 HONEYCUTT ST	x			x									P		4.00	
177	HS21	4095	200 BOUNDARY ST	x			x									NP		7.60	
178	HS21	4096	BOUNDARY ST	x		x	x									NP	0.67	7.60	
179	HS21	4097	208 BOUNDARY ST	x			x		x							NP		5.70	
180	HS21	4098	BOUNDARY ST	x			x									NP		4.70	
181	HS21	4102	1900 SPRING ST	x			x	x								NP		9.70	
182	HS21	4104	1846 SPRING ST	x			x	x	x							NP		11.00	
183	HS21	4126	BOUNDARY ST	x			x	x								NP	0.75	5.30	
184	HS21	4130	RAYMOND ST	x			x									NP		6.20	
185	HS21	4131	624 RAYMOND ST	x			x			x						P	1.17	6.30	
186	HS21	4132	620 RAYMOND ST	x			x									NP		4.40	
187	HS21	4134	194 WAINE PL	x			x		x							NP		7.00	
188	HS21	4135	194 WAINE PL	x			x									NP		5.80	
189	HS21	4136	1872 SPRING ST	x			x									NP		4.50	
190	HS21	4137	1872 SPRING ST	x			x									NP		4.50	
191	HS21	4138	1846 SPRING ST	x			x		x							NP		4.90	
192	HS21	4139	401 HALIFAX ST	x		x	x									P	0.67	6.40	
193	HS21	4283	2200 SPRING ST	x			x									NP		6.80	
194	HS11	8387	116 BURROWS SHORES RD	x		x	x									NP	0.50	6.40	
195	HS21	10012	111 JOHN ST	x			x									P	0.50	3.00	
196	HS21	10013	207 ASH ST				x									P	0.25	4.90	
197	HS22	801	130 JONITA ST	x		x	x		x							NP	0.33	3.74	
198	HS22	4027	614 MCCLENDON ST	x			x									NP		3.75	
199	HS22	4028	606 MCCLENDON ST	x			x									P		4.70	
200	HS22	4029	606 MCCLENDON ST	x			x									P		7.12	
201	HS22	4030	508 MCCLENDON ST	x			x									NP		7.02	Raise Manhole to Grade
202	HS22	4031	504 MCCLENDON ST	x			x									NP		9.54	
203	HS22	4032	100 MAYFAIR PL	x			x		x							P	0.17	10.74	
204	HS22	4033	408 MCCLENDON ST	x			x	x								P	0.67	6.99	
205	HS22	4034	147 JONITA ST	x			x	x								P	1.17	5.90	
206	HS22	4035	138 JONITA ST	x			x	x		x						P	1.50	7.16	
207	HS22	4036	2007 SPRING ST	x			x									P	0.67	4.54	
208	HS22	4037	2105 SPRING ST	x			x									P	0.58	4.74	
209	HS22	4038	2115 SPRING ST	x			x	x								P	0.83	4.79	
210	HS22	4039	2123 SPRING ST	x			x	x	x							NP	0.83	5.12	

SURFACE TYPE

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WORK ITEM DESCRIPTION

- 1 REPLACE MANHOLE FRAME AND COVER PER D2-2
- 2 REPLACE BOLTED MANHOLE FRAME AND COVER PER D2-2
- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
- 5 GROUT MANHOLE WALL JOINTS & CRACKS PER D2-7
- 6 GROUT PIPE SEALS, LOWER 18" OF MANHOLE INCLUDING BENCH AND TROUGH PER D2-7
- 7 APPLY CEMENTITIOUS COATING TO INTERIOR OF MANHOLE PER D2-8A
- 8 APPLY CEMENTITIOUS COATING TO EXISTING GRADE ADJUSTMENT (VERTICAL INCHES) PER D2-8A
- 9 APPLY EPOXY COATING TO INTERIOR OF MANHOLE PER D2-8
- 10 REPLACE MANHOLE BENCH & TROUGH PER D2-6
- 11 PARTIAL REPLACEMENT OF MANHOLE PER D2-5
- 12 COMPLETE REPLACEMENT OF MANHOLE PER D2-5

**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS	
				1	2	3	4	5	6	7	8	9	10	11	12					
211	HS22	4040	2131	SPRING ST	x		x	x									P	0.67	6.44	
212	HS22	4041	2137	SPRING ST	x		x	x									P	0.67	6.64	
213	HS22	4042	111	HEATON LN	x			x									NP		4.31	
214	HS22	4043	105	HEATON LN	x			x									NP		4.58	
215	HS22	4044	131	EDDISON LN	x			x									NP		5.10	
216	HS22	4045	419	EDDISON LN	x			x									P		4.49	
217	HS22	4046	104	MAYFAIR PL	x			x									NP		6.67	
218	HS22	4047	106	MAYFAIR PL	x			x									NP		4.92	
219	HS22	4048	112	LODEN ST	x			x									P	0.33	5.33	
220	HS22	4049	110	LODEN ST	x			x									P	0.33	5.48	
221	HS22	4050	104	LODEN ST	x			x			x						P	0.25	5.71	
222	HS22	4051	1937	SPRING ST	x			x									NP		6.13	
223	HS22	4052	114	BATES ST	x		x	x									P	0.33	5.83	
224	HS22	4053	408	MCCLENDON ST	x		x	x									NP		4.48	Raise Manhole to Grade
225	HS22	4082	2203	SPRING ST	x		x	x									P	0.67	5.99	
226	HS22	4085	2200	SPRING ST	x		x	x									P	0.50	5.05	
227	HS22	4140	2214	SPRING ST	x			x									NP		9.25	
228	HS22	10011	1873	E GRAND AVE	x			x									P		3.90	
229	HS22	10639	2101	E GRAND AVE							x		x				NP		4.68	
230	HS22	11201	2345	E GRAND AVE						x	x						NP		3.12	
231	HS22	11577	109	REDFERN PL			x	x									NP		4.93	Raise Manhole to Grade
232	HS22	11579	217	REDFERN PL				x									NP		3.94	
233	HS22	11583	135	REDFERN PL			x	x									NP		9.51	Raise Manhole to Grade
234	HS22	11760	902	MILLCREEK RD	x			x									P		5.87	
235	HS22	11761		MILLCREEK RD	x			x									P		7.76	
236	HS22	11762	964	MILLCREEK RD	x			x									P		6.02	
237	HS22	11766	114	BLACKBEAR LN	x			x									P		7.02	
238	HS22	11768	125	BLACKBEAR LN	x			x									P		5.60	
239	HS22	12103	1873	E GRAND AVE	x			x									NP		7.14	
240	HS22	12105	1871	E GRAND AVE	x			x									NP		4.85	
241	HS22	12120	1701	MAGIC SPRINGS DR							x						P	0.67	5.59	
242	HS22	12127	1701	MAGIC SPRINGS DR	x			x									P		6.15	
243	HS22	12129	1701	MAGIC SPRINGS DR				x	x								NP	1.00	7.31	
244	HS22	12454	227	FESTIVAL ST							x						P	0.42	10.11	
245	HS22	12456		FESTIVAL ST							x						P	0.33	11.21	
246	HS22	12469	240	DAVIS DR			x	x									NP		11.18	Raise Manhole to Grade
247	HS22	12471	300	DAVIS DR				x									NP	0.58	6.64	
248	HS22	12492	104	RINGO ST				x	x								NP	1.67	10.09	
249	HS22	12493	106	RINGO ST				x	x								NP		8.73	Raise Manhole to Grade
250	HS22	12494		WHISTLER ST				x	x								NP	1.50	6.52	
251	HS22	12496	854	MILLCREEK RD							x						NP		7.72	Patch Pipe Seal Void Around Drop (No Separate Payment)
252	HS22	12573		E GRAND AVE				x									NP		6.02	

SURFACE TYPE

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WORK ITEM DESCRIPTION

- 1 REPLACE MANHOLE FRAME AND COVER PER D2-2
- 2 REPLACE BOLTED MANHOLE FRAME AND COVER PER D2-2
- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
- 5 GROUT MANHOLE WALL JOINTS & CRACKS PER D2-7
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- 7 APPLY CEMENTITIOUS COATING TO INTERIOR OF MANHOLE PER D2-8A
- 8 APPLY CEMENTITIOUS COATING TO EXISTING GRADE ADJUSTMENT (VERTICAL INCHES) PER D2-8A
- 9 APPLY EPOXY COATING TO INTERIOR OF MANHOLE PER D2-8
- 10 REPLACE MANHOLE BENCH & TROUGH PER D2-6
- 11 PARTIAL REPLACEMENT OF MANHOLE PER D2-5
- 12 COMPLETE REPLACEMENT OF MANHOLE PER D2-5

**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS	
				1	2	3	4	5	6	7	8	9	10	11	12					
253	HS22	11201A	2351	E GRAND AVE													NP		2.44	
254	HS22	11201B	2351	E GRAND AVE													NP		2.34	
255	HS22	11201C	2351	E GRAND AVE				x		x	x						NP		3.04	
256	HS22	11201D	2351	E GRAND AVE													NP		1.68	
257	HS22	13085A	149	EAGLE PASS TR				x									NP		3.96	
258	HS23	646	239	CENTRAL AVE	x		x	x	x								P	1.08	5.19	
259	HS23	1567	320	SHAWNEE ST	x			x									NP	0.92	6.92	
260	HS23	1568	320	SHAWNEE ST													P	0.33	4.95	
261	HS23	1569	100	CHOCTAW CT	x			x		x							P		4.08	
262	HS23	1575	103	SEMINOLE CT	x			x									NP		3.71	
263	HS23	1576	312	SHAWNEE ST	x		x	x									P	0.33	5.86	
264	HS23	1577	304	SHAWNEE ST													P	0.75	5.43	
265	HS23	1578	204	SHAWNEE ST													P	0.17	4.98	
266	HS23	1579	103	MOHAWK ST	x			x									P		4.90	
267	HS23	1580	104	MOHAWK ST	x		x	x									P	0.25	3.82	
268	HS23	1581	108	MOHAWK ST													P	0.25	4.71	
269	HS23	1582	203	SHAWNEE ST	x			x	x								P	0.33	3.93	
270	HS23	2000	105	DAVID ROBERT CT	x		x	x									P	0.83	5.59	
271	HS23	2001	102	SHERRY ST	x		x	x									P	0.33	3.35	
272	HS23	4311	137	HIGHLAND PARK ST													NP	0.58	8.79	
273	HS23	4312	117	KAYLA ST													NP	0.33	10.76	
274	HS23	4314	125	HIGHLAND PARK ST													NP	0.42	11.08	
275	HS23	4316	115	HIGHLAND PARK ST													P	0.33	5.29	
276	HS23	4317	114	KAYLA ST													P	0.58	5.52	
277	HS23	4318	101	HIGHLAND PARK ST													P	0.33	3.83	
278	HS23	4319	1515	MALVERN AVE	x		x	x									P	0.75	6.82	
279	HS23	4320	100	CONES RD	x		x	x									NP		4.91	Raise Manhole to Grade
280	HS23	4322	200	CONES RD													P	0.67	12.54	
281	HS23	4345	301	CONES RD													P	0.67	8.84	
282	HS23	4346	308	CONES RD													P	0.67	7.12	
283	HS23	4347	319	CONES RD													P	0.33	8.23	
284	HS23	4348	106	PLEASANT VALLEY ST													P	0.33	8.61	
285	HS23	4349	106	BOAZ ST													P	0.25	5.45	
286	HS23	4355	406	CONES RD				x	x								NP	0.67	6.36	
287	HS23	4357	102	PLEASANT VALLEY ST													P	0.42	7.84	
288	HS23	4358	206	PLEASANT VALLEY ST													P	0.42	9.43	
289	HS23	4359	218	PLEASANT VALLEY ST													P	0.50	8.96	
290	HS23	4360	218	PLEASANT VALLEY ST													NP	3.75	10.82	
291	HS23	4363	229	RIDGEWAY ST													NP	0.67	8.95	
292	HS23	4367	322	PLEASANT VALLEY ST													P	0.25	9.12	
293	HS23	4368	310	PLEASANT VALLEY ST													P	0.67	4.21	
294	HS23	4371	407	PLEASANT VALLEY ST													P	0.58	4.04	

SURFACE TYPE

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WORK ITEM DESCRIPTION

- 1 REPLACE MANHOLE FRAME AND COVER PER D2-2
- 2 REPLACE BOLTED MANHOLE FRAME AND COVER PER D2-2
- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
- 5 GROUT MANHOLE WALL JOINTS & CRACKS PER D2-7
- 6 GROUT PIPE SEALS, LOWER 18" OF MANHOLE INCLUDING BENCH AND TROUGH PER D2-7
- 7 APPLY CEMENTITIOUS COATING TO INTERIOR OF MANHOLE PER D2-8A
- 8 APPLY CEMENTITIOUS COATING TO EXISTING GRADE ADJUSTMENT (VERTICAL INCHES) PER D2-8A
- 9 APPLY EPOXY COATING TO INTERIOR OF MANHOLE PER D2-8
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- 12 COMPLETE REPLACEMENT OF MANHOLE PER D2-5

**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS	
				1	2	3	4	5	6	7	8	9	10	11	12					
295	HS23	4372	303 DAVID ST											x			P	0.42	5.12	
296	HS23	4382	414 CONES RD											x			P	1.67	8.46	
297	HS23	4383	410 CONES RD											x			P	0.58	7.79	
298	HS23	4384	406 CONES RD											x			P	0.25	6.39	
299	HS23	4385	400 CONES RD											x			P	0.17	5.74	
300	HS23	4386	510A CONES RD											x			P	0.50	11.71	
301	HS23	4387	111 GIBBS ST						x								P	0.75	6.12	
302	HS23	4389	111 GIBBS ST	x			x										NP		7.32	
303	HS23	4392	507 PLEASANT VALLEY ST	x			x										P		7.08	
304	HS23	4393	523 PLEASANT VALLEY ST	x			x		x								P	0.25	7.22	
305	HS23	4531	8 BELDOIR CT						x								NP		7.36	
306	HS23	4539	206 DOTTIE ST											x			P	1.08	9.14	
307	HS23	4541	206 SHERRI ST											x			P	0.33	7.48	
308	HS23	4542	209 DINO ST				x	x									NP		8.00	
309	HS23	4548	101 DINO ST	x			x	x									P		6.43	
310	HS23	4549	101 DINO ST				x	x									NP		5.69	
311	HS23	4550	201 MARYLOU ST						x		x						P	1.00	5.48	
312	HS23	4556	841 BELLAIRE DR											x			P	0.25	5.60	Patch Pipe Seal Void Around Drop (No Separate Payment)
313	HS23	4558	108 DOTTIE ST											x			P	0.42	6.64	
314	HS23	4632	123 PARKRIDGE ST	x			x										NP			
315	HS23	4639	PARKRIDGE ST				x		x								P	0.33	4.47	
316	HS23	4668	110 APACHE ST						x		x						NP	1.83	8.12	
317	HS23	4676	103 SEMINOLE CT	x			x										NP		13.63	
318	HS23	4680	102 RIDGEWAY ST											x			NP	0.50	18.56	
319	HS23	4683	AUTUMNRIDGE CIR	x			x	x									NP		15.06	
320	HS23	4685	106 RIDGEWAY ST											x			NP		8.32	
321	HS23	4686	106 RIDGEWAY ST	x			x										NP		7.56	
322	HS23	10004	1700 MALVERN AVE				x										NP	0.67	3.96	
323	HS23	10138	HUNTLEIGH ST											x			NP	0.33	13.23	
324	HS23	10139	HUNTLEIGH ST											x			NP	0.25	1.95	
325	HS23	10140	HUNTLEIGH ST											x			NP	0.25	3.84	
326	HS23	10141	HUNTLEIGH ST											x			NP	1.83	5.21	
327	HS23	10142	HUNTLEIGH ST				x										NP		3.81	
328	HS23	10143	HUNTLEIGH ST				x										NP		6.45	
329	HS23	10155	9 HUNTLEIGH ST						x	x							NP	0.33	6.72	
330	HS23	10158	STEEPLECHASE CT				x							x			NP		5.03	
331	HS23	11120	200 DOTTIE ST	x			x										P	0.50	6.08	
332	HS23	11121	202 DOTTIE ST	x			x										P	0.25	6.04	
333	HS23	4531B	105 LOWERY ST	x			x	x									NP	1.33	5.66	
334	HS23	4531C	105 LOWERY ST				x	x									P	1.08	5.46	
335	HS23	4531D	105 LOWERY ST	x			x	x									NP	0.67	4.35	
336	HS23	4531E	105 LOWERY ST	x			x										NP		5.45	

SURFACE TYPE

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WORK ITEM DESCRIPTION

- 1 REPLACE MANHOLE FRAME AND COVER PER D2-2
- 2 REPLACE BOLTED MANHOLE FRAME AND COVER PER D2-2
- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
- 5 GROUT MANHOLE WALL JOINTS & CRACKS PER D2-7
- 6 GROUT PIPE SEALS, LOWER 18" OF MANHOLE INCLUDING BENCH AND TROUGH PER D2-7
- 7 APPLY CEMENTITIOUS COATING TO INTERIOR OF MANHOLE PER D2-8A
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**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS
				1	2	3	4	5	6	7	8	9	10	11	12				
337	HS24	2951	212 MELWOOD ST				x		x							NP		3.54	
338	HS24	4537	111 HOLLYWOOD AVE				x									NP		7.63	
339	HS24	4567	111 RUBY ST	x			x									NP			
340	HS24	4568	ALYSONVIEW ST	x			x									NP		7.54	
341	HS24	4569	ALYSONVIEW ST											x		NP		7.45	
342	HS24	4583	103 RUBY ST							x						NP	0.75	3.80	
343	HS24	4585	110 JEFF ST													P	0.33	5.51	
344	HS24	4586	110 JEFF ST													P	0.67	5.02	
345	HS24	4587	108 JEFF ST													P	0.17	6.54	
346	HS24	4591	201 SCOTTWOOD ST							x						P	0.67	6.42	
347	HS24	4594	103 JEFF ST								x					P	0.25	5.36	
348	HS24	4603	501 BELLAIRE DR											x		P	0.75	6.10	
349	HS24	4610	214 FAIROAKS PL	x			x									P			
350	HS24	4651	1875 MALVERN AVE	x			x									NP			
351	HS24	4663	310 MELWOOD ST							x		x				P	0.33	7.72	
352	HS24	4664	320 MELWOOD ST	x												NP			
353	HS24	4696	1901 MALVERN AVE								x					NP	2.08	6.45	
354	HS24	4702	NINA PL		x		x									P		5.58	
355	HS24	4703	1925 MALVERN AVE							x						NP		5.11	City to Install Bolts in Cover
356	HS24	4739	109 FAIROAKS PL	x			x									P		6.70	
357	HS24	4745	314 BELLAIRE DR			x	x									P	0.17	6.01	
358	HS24	10535	1925 MALVERN AVE										x			P	0.42	8.56	
359	HS25	785	204 RICHWOOD CT	x			x	x								NP		4.71	
360	HS25	786	202 MARKWOOD CT	x			x		x							NP		4.50	
361	HS25	787	101 MARKWOOD CT						x		x					P	0.75	5.10	
362	HS25	788	726 BELLAIRE DR	x			x	x	x							NP		2.88	
363	HS25	789	100 MILLBRANCH CT								x					NP	0.50	6.14	
364	HS25	794	102 SAXONY ST			x	x		x							NP	1.00	4.62	
365	HS25	796	100 STONEHENGE CT										x			NP	0.33	4.20	
366	HS25	1755	951 RIDGEWAY ST							x		x				NP		12.46	Install Outside Drop Connection
367	HS25	1757	916 RIDGEWAY ST								x					P	0.50	5.19	
368	HS25	1759	871 RIDGEWAY ST		x	x	x									P	0.17	10.48	Install Inside Drop Connection on Service Re-attach Inside Drop Connection (No Separate Payment)
369	HS25	1760	854 RIDGEWAY ST	x			x									P	0.17	17.29	
370	HS25	1761	854 RIDGEWAY ST	x			x									NP		7.85	
371	HS25	1762	854 RIDGEWAY ST	x			x									NP		7.84	
372	HS25	1765	714 RIDGEWAY ST				x	x								NP	0.67	6.85	
373	HS25	1766	714 RIDGEWAY ST				x	x								NP	1.17	7.62	
374	HS25	1767	714 RIDGEWAY ST				x	x								NP	2.17	7.17	
375	HS25	1768	714 RIDGEWAY ST				x	x								NP	1.50	7.00	
376	HS25	1770	205 MILLBRANCH CT				x	x								NP	1.00	7.04	
377	HS25	2894	107 KOLLER LN	x			x		x							P	0.33	3.14	
378	HS25	4292	104 KOLLER LN										x			P	0.75	4.34	

SURFACE TYPE

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WORK ITEM DESCRIPTION

- 1 REPLACE MANHOLE FRAME AND COVER PER D2-2
- 2 REPLACE BOLTED MANHOLE FRAME AND COVER PER D2-2
- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
- 5 GROUT MANHOLE WALL JOINTS & CRACKS PER D2-7
- 6 GROUT PIPE SEALS, LOWER 18" OF MANHOLE INCLUDING BENCH AND TROUGH PER D2-7
- 7 APPLY CEMENTITIOUS COATING TO INTERIOR OF MANHOLE PER D2-8A
- 8 APPLY CEMENTITIOUS COATING TO EXISTING GRADE ADJUSTMENT (VERTICAL INCHES) PER D2-8A
- 9 APPLY EPOXY COATING TO INTERIOR OF MANHOLE PER D2-8
- 10 REPLACE MANHOLE BENCH & TROUGH PER D2-6
- 11 PARTIAL REPLACEMENT OF MANHOLE PER D2-5
- 12 COMPLETE REPLACEMENT OF MANHOLE PER D2-5

**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS	
				1	2	3	4	5	6	7	8	9	10	11	12					
379	HS25	4295	101 RHODES ST														P	0.33	5.93	
380	HS25	4296	103 RHODES ST														P	0.42	5.50	
381	HS25	4297	115 RHODES ST	x			x										P	0.42	5.24	
382	HS25	4298	105 RHODES ST						x		x						P	0.33	7.42	
383	HS25	4299	118 RHODES ST						x								P	0.17	13.24	Patch Pipe Seal Void Around Drop (No Separate Payment)
384	HS25	4304	1334 CONES RD					x									NP		7.42	
385	HS25	4305	150 RHODES ST					x									P		10.60	
386	HS25	4306	205 RHODES ST					x									P	0.67	5.13	
387	HS25	4432	1103 CONES RD					x									P		7.07	
388	HS25	4446	103 OMA ST			x	x			x							NP	0.67	4.15	Raise Manhole to Grade
389	HS25	4460	111 EDDIEMEE ST														P	0.67	8.11	
390	HS25	4467	914 CONES RD			x	x			x							NP	0.92	11.81	Raise Manhole to Grade
391	HS25	4468	210 JACOBS ST			x	x	x									P	0.83	5.00	
392	HS25	4471	210 MARYMEE ST			x	x										P		9.50	Raise Manhole to Grade
393	HS25	4472	201 MARYMEE ST														P	1.00	7.62	
394	HS25	4575	624 RIDGEWAY ST														P	0.25	6.52	
395	HS25	4578	510 RIDGEWAY ST														P	0.33	8.32	
396	HS25	4579	510 RIDGEWAY ST	x		x	x										P	0.50	6.58	
397	HS25	4613	BELLAIRE DR														P	0.33	4.08	
398	HS25	4615	100 MARKWOOD CT														P	0.58	4.32	
399	HS25	4619	106 RICHWOOD CT														P	1.00	5.84	
400	HS25	4620	104 RICHWOOD CT	x		x	x										P	0.33	6.15	
401	HS25	4621	100 RICHWOOD CT														P	1.08	7.18	
402	HS25	7753	810 RIDGEWAY ST	x			x										NP		2.99	
403	HS25	7754	810 RIDGEWAY ST	x			x										P		3.20	
404	HS25	10978	1486 CONES RD	x			x										NP		6.40	
405	HS25	11063	351 RIDGEMONT CIR				x	x									NP	0.42	3.95	
406	HS25	4429A	109 JINGLE LN	x		x	x										P	1.00	4.48	
407	HS26	608	201 CONES RD														NP	1.58	7.20	
408	HS26	1544	210 BRIARWOOD ST				x	x	x								NP	1.08	7.40	
409	HS26	1545	210 BRIARWOOD ST														NP		2.80	
410	HS26	1546	210 BRIARWOOD ST														NP		2.70	
411	HS26	1547	210 BRIARWOOD ST														NP		3.30	
412	HS26	1548	210 BRIARWOOD ST														NP		5.30	
413	HS26	1549	210 BRIARWOOD ST	x			x										NP		2.40	
414	HS26	1550	219 ROBINWOOD ST				x										NP		3.20	
415	HS26	1551	210 BRIARWOOD ST														NP		4.50	
416	HS26	1552	210 BRIARWOOD ST														P	1.08	5.00	
417	HS26	1553	205 ROBINWOOD ST	x			x										NP		3.30	
418	HS26	1554	210 BRIARWOOD ST	x			x										NP	1.08	7.40	
419	HS26	1555	201 ROBINWOOD ST														NP		4.90	
420	HS26	1556	202 IDLEWOOD ST	x			x										NP		3.90	

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WORK ITEM DESCRIPTION

- 1 REPLACE MANHOLE FRAME AND COVER PER D2-2
- 2 REPLACE BOLTED MANHOLE FRAME AND COVER PER D2-2
- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
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- 6 GROUT PIPE SEALS, LOWER 18" OF MANHOLE INCLUDING BENCH AND TROUGH PER D2-7
- 7 APPLY CEMENTITIOUS COATING TO INTERIOR OF MANHOLE PER D2-8A
- 8 APPLY CEMENTITIOUS COATING TO EXISTING GRADE ADJUSTMENT (VERTICAL INCHES) PER D2-8A
- 9 APPLY EPOXY COATING TO INTERIOR OF MANHOLE PER D2-8
- 10 REPLACE MANHOLE BENCH & TROUGH PER D2-6
- 11 PARTIAL REPLACEMENT OF MANHOLE PER D2-5
- 12 COMPLETE REPLACEMENT OF MANHOLE PER D2-5

**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS
				1	2	3	4	5	6	7	8	9	10	11	12				
421	HS26	1557	101 IDLEWOOD ST	x			x	x								P		2.34	
422	HS26	1558	331 ROBINWOOD ST							x						NP		6.80	
423	HS26	1559	318 ROBINWOOD ST							x	x					P		4.10	Apply Cementitious Coating to Bottom 3 VF of Manhole
424	HS26	1560	ROBINWOOD ST							x						NP	1.42	4.40	
425	HS26	1562	215 IDLEWOOD ST							x						NP		4.00	
426	HS26	1563	214 IDLEWOOD ST							x						NP		3.20	
427	HS26	1679	104 BEATRICE LN						x							NP		8.10	Patch Pipe Seal Void Around Drop (No Separate Payment)
428	HS26	1701	2214 SPRING ST					x								P		7.00	
429	HS26	1710	951 RIDGEWAY ST	x				x	x							NP		7.20	
430	HS26	1712	951 RIDGEWAY ST	x				x								NP		9.60	
431	HS26	1713	951 RIDGEWAY ST	x				x								NP		11.30	
432	HS26	3835	201 ROBINWOOD ST	x				x			x					NP		3.30	
433	HS26	3836	110 IDLEWOOD ST	x				x								NP		1.10	
434	HS26	3862	114 ROBINWOOD ST	x				x								NP		5.50	
435	HS26	3863	707 CYPRESSVALE ST	x				x			x					NP		4.90	
436	HS26	3864	115 ROBINWOOD ST	x				x								NP		4.30	
437	HS26	3865	105 ROBINWOOD ST	x				x			x	x				NP		4.30	Apply Cementitious Coating to Bottom 2 VF of Manhole
438	HS26	3937	101 TIRELLI ST					x								NP		3.70	Remove Large Rocks from Trough (No Separate Payment)
439	HS26	4083	2214 SPRING ST	x				x								NP		9.80	
440	HS26	4084	2214 SPRING ST							x		x				NP		10.20	Patch Void in Manhole Wall (No Separate Payment)
441	HS26	4283	2200 SPRINGS ST	x				x	x							NP		6.80	Raise Manhole to Grade
442	HS26	4324	107 GOSSETT PL	x				x								NP			
443	HS26	4325	107 GOSSETT PL	x				x								NP		7.20	
444	HS26	4331	331 ROBINWOOD ST	x				x								NP			
445	HS26	4343	104 BEATRICE LN							x						NP		5.90	
446	HS26	4344	104 BEATRICE LN							x						NP		8.50	
447	HS26	4397	104 BEATRICE LN					x	x							NP		7.04	Raise Manhole to Grade
448	HS26	4411	100 REBECCA ST							x						NP		5.90	
449	HS26	4413	100 REBECCA ST							x						NP		7.70	
450	HS26	10761	200 REBECCA ST	x						x						P		4.20	
451	HS26	10870	1425 MALVERN AVE	x						x						NP		6.50	
452	HS27	837	302 LEIGH CIR	x						x						NP		4.20	
453	HS27	838	302 LEIGH CIR	x						x						NP		4.05	
454	HS27	839	306 LEIGH CIR	x						x						NP		5.55	Apply Cementitious Coating to Bottom 2 VF of Manhole
455	HS27	840	306 LEIGH CIR	x						x						NP		6.21	Apply Cementitious Coating to Bottom 2 VF of Manhole
456	HS27	842	308 LEIGH CIR	x						x						NP	1.67	5.33	
457	HS27	843	102 LESLIE ST	x						x						NP	1.42	5.35	
458	HS27	844	102 LESLIE ST	x						x	x					NP		4.71	Apply Cementitious Coating to Bottom 2 VF of Manhole
459	HS27	845	312 LEIGH CIR	x						x						NP	2.67	8.10	
460	HS27	846	102 LEIGH CIR	x						x						NP	1.75	6.10	
461	HS27	847	106 LEIGH CIR	x						x						NP	0.25	5.65	
462	HS27	852	105 HAL CT	x						x						P		5.18	

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- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
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- 9 APPLY EPOXY COATING TO INTERIOR OF MANHOLE PER D2-8
- 10 REPLACE MANHOLE BENCH & TROUGH PER D2-6
- 11 PARTIAL REPLACEMENT OF MANHOLE PER D2-5
- 12 COMPLETE REPLACEMENT OF MANHOLE PER D2-5

**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS	
				1	2	3	4	5	6	7	8	9	10	11	12					
463	HS27	854	124 LEIGH CIR	x		x	x	x									NP	3.08	8.30	
464	HS27	855	211 LEIGH CIR	x			x										NP		5.50	
465	HS27	856	214 LEIGH CIR	x			x		x								NP		3.30	
466	HS27	857	220 LEIGH CIR	x		x	x										NP	0.25	3.60	
467	HS27	858	220 LEIGH CIR	x		x	x										NP	0.58	5.00	
468	HS27	859	107 LESLIE ST	x			x	x									NP		6.52	
469	HS27	860	107 LESLIE ST	x			x										NP		5.00	
470	HS27	1715	RIDGEWAY ST		x		x										NP		9.40	
471	HS27	1718	RIDGEWAY ST		x		x										NP		9.30	
472	HS27	1717	RIDGEWAY ST		x		x										NP		7.40	
473	HS27	1718	RIDGEWAY ST		x		x										NP		7.20	
474	HS27	1719	RIDGEWAY ST		x		x										NP		6.30	
475	HS27	2946	WHISPERING HILLS ST				x										NP		6.70	
476	HS27	2948	WHISPERING HILLS ST	x			x		x								NP		6.90	
477	HS27	4596	214 DEANWOOD TER	x		x	x										NP		8.70	
478	HS27	4597	220 DEANWOOD TER	x		x	x										NP		5.90	
479	HS27	4746	124 LEIGH CIR	x			x										NP		4.90	
480	HS27	4747	124 LEIGH CIR	x			x		x								P		5.90	
481	HS27	4757	117 VALLEY VIEW ST							x							P	0.25	7.81	
482	HS27	4758	204 OAKCREST ST			x	x										P	0.33	6.40	
483	HS27	4762	113 FARNSWORTH ST														P	0.25	6.08	
484	HS27	4763	117 FARNSWORTH ST	x		x	x										P		5.46	
485	HS27	4781	103 SUBURBAN DR	x			x										P		6.10	
486	HS27	4829	DEANWOOD TER				x										NP		7.30	
487	HS27	9971	WHISPERING HILLS ST	x			x										P		4.30	
488	HS27	10669	125 MELISSA ST							x							P	0.67	3.80	
489	HS27	11132	DEANWOOD TER							x							NP	0.67	5.50	
490	HS28	895	101 WHISPERING HILLS ST	x		x	x										NP	0.67	7.51	
491	HS28	896	105 WHISPERING HILLS ST	x		x	x										NP	1.33	14.29	
492	HS28	897	109 WHISPERING HILLS ST	x			x										NP	1.08	7.75	
493	HS28	1720	WHISPERING HILLS ST	x			x										NP			
494	HS28	1722	WHISPERING HILLS ST	x			x										NP		5.90	
495	HS28	1725	WHISPERING HILLS ST	x			x										NP		9.50	
496	HS28	2938	323 QUAIL CREEK RD							x							P	1.75	6.58	
497	HS28	2942	340 QUAIL CREEK RD				x										NP		5.58	
498	HS28	2944	340 QUAIL CREEK RD							x							NP	0.33	6.81	Patch Void in Manhole Wall (No Separate Payment)
499	HS28	2960	WEDGEWOOD TER							x							P	0.83	5.68	
500	HS28	4772	115 LAKESIDE RD							x							P	0.17	7.02	
501	HS28	4801	201 QUAIL CREEK RD								x						NP	1.33	9.65	
502	HS28	4802	203 QUAIL CREEK RD								x						NP	0.17	11.52	
503	HS28	4805	101 FOX CREEK CT	x			x										P		4.52	
504	HS28	9438	109 RAVENWOOD PL								x						NP	1.33	8.30	

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- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
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**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS
				1	2	3	4	5	6	7	8	9	10	11	12				
505	HS28	11530	QUAIL CREEK RD				x	x								NP	0.75	4.75	
506	HS28	11531	QUAIL CREEK RD				x									NP	0.75	4.35	
507	HS28	11533	QUAIL CREEK RD				x									NP	0.58	4.15	
508	HS28	4764H	202 OAKCREST ST													NP		6.22	
509	HS29	2847	801 LAKESIDE DR	x			x	x	x							NP		5.60	
510	HS29	2849	120 LOMBARD CT				x	x								NP		6.78	
511	HS29	2972	116 HILLSDALE TER				x									P		6.68	
512	HS29	2973	115 COLONIAL TR										x			P	0.42	7.65	
513	HS29	2974	127 COLONIAL TR										x			P	0.75	6.24	
514	HS29	2975	110 FOREST HEIGHTS TRL						x	x						P	0.67	7.04	
515	HS29	2976	208 FOREST HEIGHTS TRL						x	x						P	0.25	5.99	
516	HS29	2977	216 FOREST HEIGHTS TRL							x						P	0.17	9.66	
517	HS29	2982	201 KEATS PL							x						P	1.92	6.32	
518	HS29	2988	100 COLONIAL TRL							x						P	0.50	5.44	
519	HS29	2989	100 COLONIAL TR							x						P	0.33	6.24	
520	HS29	2990	111 COLONIAL TR							x						P	0.50	7.51	
521	HS29	2994	2620 MALVERN AVE								x					NP	0.33	7.35	
522	HS29	2996	2325 MALVERN AVE	x		x	x									NP	1.50	9.60	
523	HS29	4262	114 LAMOTT ST										x			P	0.33	6.00	
524	HS29	4263	2205B MALVERN AVE										x			P	0.67	6.87	
525	HS29	4264	2207 MALVERN AVE													NP		5.81	
526	HS29	4279	128 LAMOTT ST										x			P	0.25	6.09	
527	HS29	4280	201 LAMOTT ST										x			P	0.58	6.20	
528	HS29	4281	104 CENTERWOOD ST										x			P	0.25	6.65	
529	HS29	4282	100 CENTERWOOD ST										x			P	0.25	7.76	
530	HS29	4919	103 CHIMNEY ROCK CT	x		x	x									P	0.50	4.90	
531	HS29	4920	105 CHIMNEY ROCK CT	x			x									P	0.25	5.36	
532	HS29	4921	115 KINGSBROOK CT	x		x	x	x								P	0.75	6.04	
533	HS29	4926	100 BERKSHIRE CT			x	x									P	0.17	8.39	
534	HS29	4927	401 CEDARWOOD ST			x	x									P	0.33	7.09	
535	HS29	4928	403 CEDARWOOD ST			x	x									P	0.42	11.01	
536	HS29	4934	108 KINGSBROOK CT			x	x									P	0.42	7.42	
537	HS29	4937	301 CEDARWOOD ST			x	x									P	0.33	8.02	
538	HS29	4938	220 CEDARWOOD ST										x			P	0.50	5.24	
539	HS29	4939	217 CEDARWOOD ST	x		x	x									P	0.17	4.55	
540	HS29	4944	205 BRENTWOOD ST	x			x									NP			
541	HS29	4948	213 CEDARWOOD ST			x	x									P	0.17	6.36	
542	HS29	4949	210 CEDARWOOD ST			x	x									P	0.58	5.63	
543	HS29	4950	206 VALE ST			x	x									NP	0.83	7.10	
544	HS29	4956	225 COLONIAL TR			x	x									P	0.50	7.48	
545	HS29	4957	227 COLONIAL TR			x	x									P	0.33	8.20	
546	HS29	4958	234 COLONIAL TR										x			P	0.42	8.38	

SURFACE TYPE

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WORK ITEM DESCRIPTION

- 1 REPLACE MANHOLE FRAME AND COVER PER D2-2
- 2 REPLACE BOLTED MANHOLE FRAME AND COVER PER D2-2
- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
- 5 GROUT MANHOLE WALL JOINTS & CRACKS PER D2-7
- 6 GROUT PIPE SEALS, LOWER 18" OF MANHOLE INCLUDING BENCH AND TROUGH PER D2-7
- 7 APPLY CEMENTITIOUS COATING TO INTERIOR OF MANHOLE PER D2-8A
- 8 APPLY CEMENTITIOUS COATING TO EXISTING GRADE ADJUSTMENT (VERTICAL INCHES) PER D2-8A
- 9 APPLY EPOXY COATING TO INTERIOR OF MANHOLE PER D2-8
- 10 REPLACE MANHOLE BENCH & TROUGH PER D2-6
- 11 PARTIAL REPLACEMENT OF MANHOLE PER D2-5
- 12 COMPLETE REPLACEMENT OF MANHOLE PER D2-5

**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS	WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS
				1	2	3	4	5	6	7	8	9	10	11	12				
547	HS29	4972	312 BAFANRIDGE ST			x	x									P	0.33	7.09	
548	HS29	4979	206 BAFANRIDGE ST	x			x									NP		5.05	
549	HS29	4980	303 BAFANRIDGE ST			x	x									P	0.25	6.00	
550	HS29	4981	301 BAFANRIDGE ST			x	x									P	0.50	6.28	
551	HS29	4982	237 BAFANRIDGE ST										x			P	0.83	6.80	
552	HS29	4984	233 BAFANRIDGE ST										x			P	0.75	5.16	
553	HS29	4985	230 BAFANRIDGE ST										x			P	0.66	7.26	
554	HS29	5018	100 WILDWOOD CIR			x	x									P	0.25	5.79	
555	HS29	5032	215 GLENDALE ST													NP		8.35	
556	HS29	5033	506 WILDWOOD CIR			x	x		x							P	1.42	9.20	
557	HS29	5081	100 CEDARWOOD ST						x			x				NP	1.00	5.60	
558	HS29	5082	108 CEDARWOOD ST			x	x									P	0.83	5.42	
559	HS29	11606	111 CEDARWOOD ST	x			x	x	x							P		4.40	
560	HS29	11606	103 BRENTWOOD ST	x			x									P		2.81	
561	HS29	11842	100 LOMBARD ST													NP		6.81	
562	HS29	12238	2325 MALVERN AVE	x			x									NP		6.17	
563	HS29	12239	2325 MALVERN AVE	x			x									NP		6.65	
564	HS29	12518	2325 MALVERN AVE				x									NP	2.92	7.21	
565	HS29	2968A	100 VALE ST	x			x									NP		7.29	
566	HS29	4934A	112 KINGSBROOK CT	x		x	x									P	0.33	3.42	
567	HS30	2170	2224 MALVERN RD										x			P	0.50	4.18	
568	HS30	3000	210 FAIRPLAY DR	x			x									NP		6.75	
569	HS30	3001	210 FAIRPLAY DR										x			NP	0.83	6.49	
570	HS30	3690	428 WILDWOOD CIR	x			x	x								NP	0.25	6.38	
571	HS30	3691	426 WILDWOOD CIR	x			x	x								NP		4.58	
572	HS30	5046	251 PIPER ST										x			P	1.92	8.82	
573	HS30	5047	200 PIPER ST										x			P	0.25	9.59	
574	HS30	5048	200 GLENDALE ST				x									NP		5.28	
575	HS30	5049	104 PIPER ST										x			P	0.50	4.92	
576	HS30	5050	100 PIPER ST										x			P	0.83	9.20	
577	HS30	5060	103 KAREN ST										x			P	0.42	8.42	
578	HS30	5067	308 WILDWOOD CIR										x			P	0.75	6.00	
579	HS30	5069	211 WILDWOOD CIR										x			P	0.75	6.01	
580	HS30	5071	202 GLENDALE ST										x			P	0.25	6.88	
581	HS30	5075	426 WILDWOOD CIR										x			P	0.25		
582	HS30	5112	108 BRENTWOOD ST										x			P		8.74	
583	HS30	5118	102 SKYWAY ST	x			x	x								P	1.33	8.55	
584	HS30	5121	102 SKYWAY ST										x			NP	0.92	9.15	
585	HS30	5130	2805 VADEA TER										x			P	1.25	6.15	
586	HS30	5131	112 VADEA TER										x			P	0.75	6.15	
587	HS30	5206	115 ROXBURY ST										x			P	0.50	8.48	
588	HS30	5215	210 CARPENTER DAM RD				x									NP		7.12	

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- 3 REPLACE MANHOLE GRADE ADJUSTMENT PER D2-3
- 4 SEAL FRAME AND GRADE ADJUSTMENT PER D2-3 & D2-4
- 5 GROUT MANHOLE WALL JOINTS & CRACKS PER D2-7
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- 7 APPLY CEMENTITIOUS COATING TO INTERIOR OF MANHOLE PER D2-8A
- 8 APPLY CEMENTITIOUS COATING TO EXISTING GRADE ADJUSTMENT (VERTICAL INCHES) PER D2-8A
- 9 APPLY EPOXY COATING TO INTERIOR OF MANHOLE PER D2-8
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- 11 PARTIAL REPLACEMENT OF MANHOLE PER D2-5
- 12 COMPLETE REPLACEMENT OF MANHOLE PER D2-5

**CITY OF HOT SPRINGS, ARKANSAS
2014 MANHOLE REHABILITATION SCHEDULE
UNIT 3**

JOB NO.	BASIN	MH #	LOCATION ADDRESS		WORK ITEMS												SURF. TYPE	ADJ. HEIGHT (VF)	MH DEPTH (VF)	COMMENTS
					1	2	3	4	5	6	7	8	9	10	11	12				
589	HS30	5339	1311	GOLF LINKS RD	x			x									NP		4.57	
590	HS30	5340	1313	GOLF LINKS RD				x	x								NP		7.06	Apply Grout at Corbel Joints
591	HS30	5342	1313	GOLF LINKS RD	x			x	x								NP		5.15	
592	HS30	5343	2224	MALVERN RD									x				P	0.75	7.05	
593	HS30	5344	2224	MALVERN RD									x				P	2.00	12.65	
594	HS30	5345	2224	GOLF LINKS RD									x				P	0.50	6.50	
595	HS30	12526	2751	MALVERN RD									x				NP	2.58	5.99	
596	HS31	1156	2871	MALVERN AVE	x		x	x					x				P	1.83	6.95	
597	HS31	1729		RAVENWOOD PL	x			x									NP		10.00	
598	HS31	1732	1732	JOYCE ST	x			x									NP		9.01	
599	HS31	1734		RAVENWOOD PL	x			x									NP		10.00	
600	HS31	1739		MALVERN AVE	x			x									NP		8.70	
601	HS31	1743		MALVERN AVE	x		x	x									NP		10.60	Raise Manhole to Grade
602	HS31	4875	320	SKYLINE DR	x		x	x									P	0.33	7.23	
603	HS31	4876	402	SKYLINE DR				x	x								P	0.42	4.64	
604	HS31	4877	402	SKYLINE DR				x	x								P	0.33	4.77	
605	HS31	4889		MALVERN AVE										x			NP	0.83	7.84	
606	HS31	4890		MALVERN AVE					x								NP	0.33	7.69	
607	HS31	4902		MALVERN AVE				x	x								NP	1.92	9.30	
608	HS31	4910		MALVERN AVE				x	x								NP	0.67	9.99	
609	HS31	9166	107	BLUE MIST TER				x	x								P	0.50	9.31	
610	HS31	9167	111	BLUE MIST TER					x								NP		2.64	
611	HS31	9181	147	TRADEWINDS PL				x	x								NP	0.75	10.14	
612	HS31	9187	874	SHADY HEIGHTS RD	x				x								NP		6.72	
613	HS31	9190	363	LANCE CIR					x								P		3.71	
614	HS31	9195	317	LANCE CIR				x	x								P	0.50	4.32	
615	HS31	9198	751	SHADY HEIGHTS RD				x	x					x			NP	1.92	9.06	
616	HS31	9209	103	KEYSTONE PL				x	x								NP	1.33	7.50	
617	HS31	9213	552	CATHERINE HGTS RD				x	x								P	0.67	4.52	
618	HS31	9214	290	CATHERINE HGTS RD				x	x								P	0.67	4.25	
619	HS31	9240	119	BLUE MIST TER					x	x							P	0.25	8.15	
620	HS31	10507	2855	MALVERN AVE	x				x								NP		4.81	
621	HS31	10508	2855	MALVERN AVE	x				x								P		4.41	
622	HS31	10509	2855	MALVERN AVE	x				x								P		4.17	
623	HS31	10510	2855	MALVERN AVE												x	NP		2.66	
624	HS31	10512	2871	MALVERN AVE	x				x								NP	4.33	7.79	
625	HS31	10513	2871	MALVERN AVE	x				x								NP		4.95	
626	HS31	11066	2855	MALVERN AVE	x				x								P		4.24	
627	HS31	11067	2855	MALVERN AVE	x				x								P	1.42	4.15	

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