

To:

CIB W117 Performance Measurement in Construction

Subject: IRC 2019 Alpha Inspections

Joseph Kashiwagi inspected IRC's roofs [jobs] on September 18-19, 2019 for their Alpha Certification. A total of 293 roofs were surveyed with a total square footage of 21.6M. Among the surveyed roofs, 52 were inspected.

Below are the significant results from 2019 IRC Alpha Inspection:

- 293 roofs were surveyed (Total of 21 M SF) including 40 clients.
- 52 roofs were inspected (Total of 8M SF) including 10 clients.
- 100% of roofs have reported to have no current leaks.
- 100% of roofs have reported to have a satisfied client that would hire IRC again.
- 0.06% of the total inspected roof area was blistered (4457 SF of total blisters).

Please let me know if you have any questions. You can contact me at 480-313-4488

Thank you.

**Joseph Kashiwagi**

*Program Director*

**Kashiwagi Solution Model**

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Enclosed Attachments:

- Attachment A - Overall Performance Information
- Attachment B – Inspection Results
- Attachment C – Survey Results
- Excel Document - Survey and Inspection Detailed Roof Information

**Attachment A – Year Comparison**

<b>No</b>	<b>Survey</b>	<b>Unit</b>	<b>2019</b>	<b>2017</b>	<b>2015</b>	<b>2013</b>
1	Total number of different clients	#	40	12	27	24
2	Total number of roofs surveyed	#	293	72	90	89
3	Total roof area	SF	21,634,918	7,915,423	2,286,230	5,428,887
4	Largest roof area	SF	1,037,600	1,037,600	140,000	759,500
5	Average roof area	SF	73,839	109,936	25,403	60,999
6	Oldest roof	Years	44	31	16	31
7	Average age of roofs	Years	15	13	8	7
8	Age sum of all projects that never leaked	Years	2,661	804	680	688
9	Age sum of all projects that do not leak	Years	4,201	944	698	858
10	Percent of roofs that do not leak	%	100%	100%	100%	100%
11	Percent of roofs with satisfied clients	%	100%	100%	100%	100%
12	Percent of roofs with clients that would purchase again	%	100%	98%	100%	100%
<b>No</b>	<b>Inspection [all 2019 inspected roofs were surveyed]</b>	<b>Unit</b>	<b>2019</b>	<b>2017</b>	<b>2015</b>	<b>2013</b>
1	Total number of different clients	#	10	6	12	6
2	Total number of roofs inspected	#	52	28	30	33
3	Total roof area	SF	8,037,065	7,154,944	2,095,986	4,025,462
4	Average roof area	SF	154,559	255,533	69,866	121,983
5	Oldest roof	Years	44	31	26	27
6	Average age of roofs	Years	21	24	11	10
7	Percent of inspected roofs with less than 5% ponded water	%	100.00%	100%	100%	97%
8	Percent of inspected roofs with less than 1% deterioration	%	100.00%	100%	100%	97%
9	Percent of inspected roofs with more than 1/4" slope	%	96%	79%	97%	94%
10	Percent of inspected roofs' area blistered	%	0.06%	0.03%	0.02%	0.02%

### Attachment B – Inspection Results

#	Roof Name	Roof Area	Date Installed	Insp. Date	Slope more than 1/4"	SF of Roof Ponding	Gran / Agg	# of Penetrations	SF of Blisters	Sf of Delamination	SF of Mech. Damage	SF of Bird Pecks	SF of Repair	SF of Deterioration	% of Roof Blistered	Inspector
1	DW Silks	91260	8/1/1990	9/18/2019	0	0	G	10	0	0	0	0	0	0	0.00%	JBK
10	Middle Bay Low Pit	14000	6/7/1976	9/18/2019	1	0	G	50	250	100	100	0	250	0	1.79%	JBK
11	Far Bay	14400	5/21/1979	9/18/2019	1	0	G	50	250	100	100	0	250	0	1.74%	JBK
14	DW Silks	90000	9/5/2012	9/18/2019	0	0	G	10	0	0	0	0	0	0	0.00%	JBK
21	Dunbar High School	140000	7/31/2006	9/19/2019	1	0	G	150	200	0	100	0	2000	0	0.14%	JBK
22	Beaumont Middle School	25483	9/4/2008	9/19/2019	1	0	G	20	33	33	33	0	100	0	0.13%	JBK
23	Beaumont Middle School	51517	8/11/2009	9/19/2019	1	0	G	60	66	0	66	0	200	0	0.13%	JBK
40	Bldg2 - Accounts Payable	100000	1/1/1986	9/18/2019	1	0	G	100	0	100	0	0	500	0	0.00%	JBK
41	Bldg2 - Office	100000	1/1/1986	9/18/2019	1	0	G	100	5	0	0	0	500	0	0.01%	JBK
42	Bldg2 - North Section	258200	1/1/1986	9/18/2019	1	0	G	100	110	0	100	0	600	0	0.04%	JBK
43	Bldg1 - Main Center Section	360000	1/1/1986	9/18/2019	1	0	G	75	60	0	0	0	980	0	0.02%	JBK
44	Bldg1 - Section 1	418810	1/1/1986	9/18/2019	1	0	G	75	34	0	0	0	780	0	0.01%	JBK
45	Bldg3	728000	1/1/1986	9/18/2019	1	0	G	100	200	0	100	0	750	0	0.03%	JBK
46	Bldg2 - South Section	260000	1/1/1987	9/18/2019	1	0	G	93	70	0	0	0	500	0	0.03%	JBK
47	Bldg1 - Main Southeast	112000	11/5/1988	9/18/2019	1	0	G	175	200	0	0	0	500	0	0.18%	JBK
48	Bldg4 - Section 2	192683	1/1/1990	9/18/2019	1	0	G	130	0	0	0	0	500	0	0.00%	JBK
49	Bldg4 - North Section Main	204000	1/1/1990	9/18/2019	1	0	G	150	0	0	0	0	100	0	0.00%	JBK
50	Bldg4 - Section 1	24000	1/1/1991	9/18/2019	1	0	G	100	100	0	0	0	300	0	0.42%	JBK
51	Bldg4 - Southwest Section	24000	1/1/1991	9/18/2019	1	0	G	50	10	0	0	0	300	0	0.04%	JBK
52	Bldg4 - Section 4	38809	1/1/1991	9/18/2019	1	0	G	100	100	0	0	0	10	0	0.26%	JBK
53	Bldg4 - Office (East Section)	46500	1/1/1991	9/18/2019	1	0	G	150	100	0	0	0	500	0	0.22%	JBK
54	Bldg4 - Main South	255500	1/1/1991	9/18/2019	1	0	G	200	0	0	0	0	50	0	0.00%	JBK
55	Bldg4 - Section 5	258426	1/1/1991	9/18/2019	1	0	G	200	0	0	0	0	50	0	0.00%	JBK
56	Bldg5	212517	8/1/1991	9/18/2019	1	0	G	200	50	0	0	0	100	0	0.02%	JBK
57	Bldg5 - Northwest Corner	250000	8/1/1991	9/18/2019	1	0	G	145	50	0	0	0	100	0	0.02%	JBK
58	Bldg6 - Office - Middle Sctin	15000	3/29/2000	9/18/2019	1	0	G	20	0	0	0	0	0	0	0.00%	JBK
59	Bldg35	40218	11/28/2000	9/18/2019	1	0	G	175	1000	0	500	0	0	0	2.49%	JBK
60	Bldg5	152689	11/28/2000	9/18/2019	1	0	G	150	0	0	0	0	500	0	0.00%	JBK
61	Bldg10 - Phase III - Section G	167610	11/28/2000	9/18/2019	1	0	G	50	100	0	0	0	1000	0	0.06%	JBK

#	Roof Name	Roof Area	Date Installed	Insp. Date	Slope More than 1/4"	SF of Roof Ponding	Gran / Agg	# of Penetrations	SF of Blisters	SF of Delamination	SF of Mech. Damage	SF of Bird Pecks	SF of Repair	SF of Deterioration	% of Roof Blistered	Inspector
62	Bldg10 - Phase I	750307	11/28/2000	9/18/2019	1	0	G	100	0	0	0	0	3500	0	0.00%	JBK
63	Bldg10 - Phase II	1037600	11/28/2000	9/18/2019	1	0	G	100	200	0	0	0	2000	0	0.02%	JBK
64	Ge Ap #6	339104	6/20/2002	9/18/2019	1	0	G	150	0	6	0	0	0	0	0.00%	JBK
65	Bldg5	759500	8/8/2011	9/18/2019	1	0	G	100	100	0	0	0	500	0	0.01%	JBK
127	Kaba Mas Corp.	46620	8/9/2002	9/19/2019	1	0	G	100	0	0	0	0	0	0	0.00%	JBK
128	Kentucky Electirc Coop	53985	10/11/1988	9/18/2019	1	0	G	30	20	0	0	0	100	0	0.04%	JBK
129	Lafayette Christian Church	6869	8/29/2002	9/19/2019	1	0	G	10	5	5	0	5	10	0	0.07%	JBK
209	Paradise Tomato Kitchens	13200	8/3/2009	9/18/2019	1	0	G	25	25	0	0	25	0	0	0.19%	JBK
210	Paradise Tomato Kitchens	20371	5/31/2005	9/18/2019	1	0	G	25	25	0	0	25	0	0	0.12%	JBK
211	Paradise Tomato Kitchens	19657	6/15/2007	9/18/2019	1	0	G	25	25	0	0	25	0	0	0.13%	JBK
212	Parker Commercial Storage	78228	1/1/2000	9/18/2019	1	0	G	40	0	400	0	0	200	0	0.00%	JBK
213	Parker Commercial Storage	52152	5/6/2002	9/18/2019	1	0	G	40	0	400	0	0	200	0	0.00%	JBK
252	Chandler Medical Center	23520	9/7/2010	9/19/2019	1	0	G	100	0	0	100	0	0	0	0.00%	JBK
253	Dental Wing	15252	9/13/2010	9/19/2019	1	0	G	35	10	0	10	0	0	0	0.07%	JBK
254	Chemistry/Physics Bldg.	37060	9/19/2001	9/19/2019	1	0	G	250	4	0	0	0	0	0	0.01%	JBK
255	John Oswald Building - West Half	23,748	4/30/2003	9/19/2019	1	0	G	30	200	10	10	0	300	0	0.84%	JBK
256	M.i.k. Bldg	13000	11/29/2006	9/19/2019	1	0	G	17	100	0	0	0	500	0	0.77%	JBK
257	Chandler Medical Science Wing	25,667	8/14/2008	9/19/2019	1	0	G	150	300	400	0	0	3000	0	1.17%	JBK
258	Thomas Hunt Morgan Bldg	24246	11/13/2008	9/19/2019	1	0	G	80	100	0	10	0	10	0	0.41%	JBK
284	College Of Nursing	5351	5/9/2018	9/19/2019	1	0	G	10	0	0	0	0	0	0	0.00%	JBK
285	KY Clinic Mri	750	11/20/2018	9/19/2019	1	0	G	5	5	0	0	5	0	0	0.67%	JBK
286	Chandler Helipad	24893	12/19/2018	9/19/2019	1	0	G	80	300	100	0	0	100	0	1.21%	JBK

**Attachment C – Survey Results**

#	Owner	Roof Name	Roof Area	Date Installed	Contact Name	On-Time?	Satisfied?	Purchase?	Leaked?	Cur Leak?
1	Advanced Distribution	DW Silks	91260	8/1/1990	Chris Deeley	1	1	1	0	0
2	Advanced Distribution	DW Silks	305273	7/1/1992	Chris Deeley	1	1	1	0	0
3	Ball Corporation	Ball Corporation	45732	9/20/2012	J Miller	1	1	1	0	0
4	Ball Corporation	Ball Corporation	68446	8/21/2002	Scott Zimmerman	1	1	1	0	0
5	Burton Property Group	Office Max	24483	5/3/2018	Joe Burton	1	1	1	1	0
6	Burton Property Group	Five Below Store	16230	7/24/2018	Joe Burton	1	1	1	1	0
7	Chalfant Industries	Quills Coffee	2000	4/23/2018	Matt Chalfant	1	1	1	0	0
8	Chalfant Industries	Brooke Point Center	33248	9/12/2018	Matt Chalfant	1	1	1	0	0
9	Consolidated H.S. District 135	Consolidated H.s. District 135	575517	1/30/2007	Robert Hughes	1	1	1	0	0
10	Dean Milk	Middle Bay Low Pit	14000	6/7/1976	Scott James	1	1	1	1	0
11	Dean Milk	Far Bay	14400	5/21/1979	Scott James	1	1	1	1	0
12	Downtown Ford	Ford Bldg.	23050	9/19/1999	Mike	1	1	1	0	0
13	Dw Management Co, Llc	Dw Management	400000	9/24/2018	Tammy Weiser	1	1	1	0	0
14	East Gibson School Corporation	DW Silks	90000	9/5/2012	Chris Deeley	1	1	1	0	0
15	East Gibson School Corporation	Wood Memorial High School	27688	10/24/2012	Dave Edwards	1	1	1	0	0
16	East Gibson School Corporation	Barton Elementary School	9800	6/27/2008	Dave Edwards	1	1	1	0	0
17	East Gibson School Corporation	Wood Memorial H.s. Gym	6500	7/1/2008	Dave Edwards	1	1	1	0	0
18	East Gibson School Corporation	East Gibson School Corp	118378	9/7/2012	Dave Edwards	1	1	1	0	0
19	East Kentucky Power	H L Spurlock Power Station	55648	11/17/1999	Yolanda Perry	1	1	1	0	0
20	Entek IRD International	Primary Warehouse	7388	9/22/1999	Brian Allison	1	1	1	0	0
21	Fayette County Public Schools	Dunbar High School	140000	7/31/2006	Wesley Perkins	1	1	1	1	0
22	Fayette County Public Schools	Beaumont Middle School	25483	9/4/2008	Wesley Perkins	1	1	1	0	0
23	Fayette County Public Schools	Beaumont Middle School	51517	8/11/2009	Wesley Perkins	1	1	1	0	0
24	Fayette County Public Schools	Athens Elementary	9488	5/2/2002	Wesley Perkins	1	1	1	0	0
25	Fayette County Public Schools	Crawford Middle School	12500	7/29/2002	Wesley Perkins	1	1	1	0	0
26	Fayette County Public Schools	Central Main Office	27000	4/30/2003	Wesley Perkins	1	1	1	0	0
27	Fayette County Public Schools	Russell Cave Elementary	14361	7/25/2003	Wesley Perkins	1	1	1	0	0
28	Fayette County Public Schools	Crawford Middle School	9323	9/5/2003	Wesley Perkins	1	1	1	0	0
29	Fayette County Public Schools	Meadowthorpe Elementary Gym	6195	8/13/2004	Wesley Perkins	1	1	1	0	0
30	Fayette County Public Schools	Tates Creek Elementary School	6867	8/13/2004	Wesley Perkins	1	1	1	0	0
31	Fayette County Public Schools	Tates Creek Middle School	14823	8/17/2004	Wesley Perkins	1	1	1	0	0
32	Fayette County Public Schools	Tates Creek Middle School	76694	5/18/2006	Wesley Perkins	1	1	1	0	0
33	Fayette County Public Schools	Mary Todd Elementary	54200	8/11/2006	Wesley Perkins	1	1	1	1	0

#	Owner	Roof Name	Roof Area	Date Installed	Contact Name	On-Time?	Satisfied?	Purchase?	Leaked?	Cur Leak?
34	Fayette County Public Schools	Clays Mill Elementary	9166	11/27/2006	Wesley Perkins	1	1	1	0	0
35	Fayette County Public Schools	Meadowthorpe Elementary	39000	11/30/2006	Wesley Perkins	1	1	1	0	0
36	Fayette County Public Schools	Jessie Clark Middle School	20263	8/22/2008	Wesley Perkins	1	1	1	0	0
37	Fayette County Public Schools	Jessie Clark Middle School	52404	7/28/2009	Wesley Perkins	1	1	1	0	0
38	Fayette County Public Schools	Picadome Elementary School	40000	5/23/2011	Wesley Perkins	1	1	1	0	0
39	Federal Mogul	Federal Mogul	5148	1/1/2000	Gary Casto	1	1	1	0	0
40	GE	Bldg2 - Accounts Payable	100000	1/1/1986	Tom Fairfax	1	1	1	1	0
41	GE	Bldg2 - Office	100000	1/1/1986	Tom Fairfax	1	1	1	1	0
42	GE	Bldg2 - North Section	258200	1/1/1986	Tom Fairfax	1	1	1	1	0
43	GE	Bldg1 - Main Center Section	360000	1/1/1986	Tom Fairfax	1	1	1	1	0
44	GE	Bldg1 - Section 1	418810	1/1/1986	Tom Fairfax	1	1	1	1	0
45	GE	Bldg3	728000	1/1/1986	Tom Fairfax	1	1	1	1	0
46	GE	Bldg2 - South Section	260000	1/1/1987	Tom Fairfax	1	1	1	1	0
47	GE	Bldg1 - Main Southeast	112000	11/5/1988	Tom Fairfax	1	1	1	1	0
48	GE	Bldg4 - Section 2	192683	1/1/1990	Tom Fairfax	1	1	1	1	0
49	GE	Bldg4 - North Section Main	204000	1/1/1990	Tom Fairfax	1	1	1	1	0
50	GE	Bldg4 - Section 1	24000	1/1/1991	Tom Fairfax	1	1	1	1	0
51	GE	Bldg4 - Southwest Section	24000	1/1/1991	Tom Fairfax	1	1	1	1	0
52	GE	Bldg4 - Section 4	38809	1/1/1991	Tom Fairfax	1	1	1	1	0
53	GE	Bldg4 - Office (East Section)	46500	1/1/1991	Tom Fairfax	1	1	1	1	0
54	GE	Bldg4 - Main South	255500	1/1/1991	Tom Fairfax	1	1	1	1	0
55	GE	Bldg4 - Section 5	258426	1/1/1991	Tom Fairfax	1	1	1	1	0
56	GE	Bldg5	212517	8/1/1991	Tom Fairfax	1	1	1	1	0
57	GE	Bldg5 - Northwest Corner	250000	8/1/1991	Tom Fairfax	1	1	1	1	0
58	GE	Bldg6 - Office - Middle Sctin	15000	3/29/2000	Tom Fairfax	1	1	1	1	0
59	GE	Bldg35	40218	11/28/2000	Tom Fairfax	1	1	1	1	0
60	GE	Bldg5	152689	11/28/2000	Tom Fairfax	1	1	1	1	0
61	GE	Bldg10 - Phase III - Section G	167610	11/28/2000	Tom Fairfax	1	1	1	1	0
62	GE	Bldg10 - Phase I	750307	11/28/2000	Tom Fairfax	1	1	1	1	0
63	GE	Bldg10 - Phase II	1037600	11/28/2000	Tom Fairfax	1	1	1	1	0
64	GE	Ge Ap #6	339104	6/20/2002	Tom Fairfax	1	1	1	1	0
65	GE	Bldg5	759500	8/8/2011	Tom Fairfax	1	1	1	1	0
66	GE	Bldg6 - Office (East)	22800	10/27/1999	Tom Fairfax	1	1	1	1	0

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67	GE	Bldg6 - Office (West)	22800	10/27/1999	Tom Fairfax	1	1	1	1	0
68	GE	Bldg6 - Section 2 (west office)	50000	10/27/1999	Tom Fairfax	1	1	1	1	0
69	GE	Bldg6 - High Bay next to office	96000	3/29/2000	Tom Fairfax	1	1	1	1	0
70	GE	Bldg6 - Section 3 (east office)	96000	3/29/2000	Tom Fairfax	1	1	1	1	0
71	GE	Bldg10 - Section 3	93465	10/19/2001	Tom Fairfax	1	1	1	1	0
72	GE	Bldg10 - Section 2	89745	4/14/2003	Tom Fairfax	1	1	1	1	0
73	GE	Bldg2	613192	10/4/2012	Tom Fairfax	1	1	1	1	0
74	Ge cp Accounts Payable	General Electric Co.	79200	7/26/2004	Tom Fairfax	1	1	1	1	0
75	Ge cp Accounts Payable	Ge Applicances	26425	10/7/2004	Tom Fairfax	1	1	1	1	0
76	Ge cp Accounts Payable	Ge Appliance Park	8000	10/21/2004	Tom Fairfax	1	1	1	1	0
77	Ge cp Accounts Payable	General Electric	59430	11/8/2004	Tom Fairfax	1	1	1	1	0
78	Ge cp Accounts Payable	Ge Appliance Park	7060	11/12/2004	Tom Fairfax	1	1	1	1	0
79	Ge cp Accounts Payable	Ge cp Accounts Payable	41000	4/27/2006	Tom Fairfax	1	1	1	1	0
80	Ge cp Accounts Payable	Ge Ap#3/Office	8000	7/13/2006	Tom Fairfax	1	1	1	1	0
81	Ge cp Accounts Payable	Ge Ap #6	29000	12/8/2006	Tom Fairfax	1	1	1	1	0
82	Ge cp Accounts Payable	Ge Bldg #2 Ne Elevation	46760	7/7/2008	Tom Fairfax	1	1	1	1	0
83	Ge cp Accounts Payable	Ge Ap 2	13010	11/5/2009	Tom Fairfax	1	1	1	1	0
84	Ge cp Accounts Payable	Ge Ap 1	27000	6/4/2010	Tom Fairfax	1	1	1	1	0
85	Ge cp Accounts Payable	Ge Ap 5	7500	9/13/2010	Tom Fairfax	1	1	1	1	0
86	Ge cp Accounts Payable	Ge Ap 5	178425	8/8/2011	Tom Fairfax	1	1	1	1	0
87	Ge cp Accounts Payable	Ge - Ap 4	17950	9/14/2011	Tom Fairfax	1	1	1	1	0
88	Ge cp Accounts Payable	Ge Ap 5	6815	9/23/2011	Tom Fairfax	1	1	1	1	0
89	Ge cp Accounts Payable	Ge - Bulding #1	52000	10/19/2011	Tom Fairfax	1	1	1	1	0
90	Ge cp Accounts Payable	Ge cp Accounts Payable	6754	10/24/2011	Tom Fairfax	1	1	1	1	0
91	Ge cp Accounts Payable	Ge Lighting	28040	10/27/2011	Tom Fairfax	1	1	1	1	0
92	Ge cp Accounts Payable	Ge Lighting	30976	11/1/2011	Tom Fairfax	1	1	1	1	0
93	Ge cp Accounts Payable	Ge - Bulding 1	50877	12/30/2011	Tom Fairfax	1	1	1	1	0
94	Ge cp Accounts Payable	Ge	732928	9/26/2012	Tom Fairfax	1	1	1	1	0
95	Ge cp Accounts Payable	Ge cp Accounts Payable	750307	12/14/2012	Tom Fairfax	1	1	1	1	0
96	Ge cp Accts Payables	Ge - Ap 10	167610	6/3/2015	Tom Fairfax	1	1	1	1	0
97	Ge cp Accts Payables	Ge - Roper	30500	7/13/2015	Tom Fairfax	1	1	1	1	0
98	Ge cp Accts Payables	Ge cp Accounts Payable	21775	11/3/2015	Tom Fairfax	1	1	1	1	0
99	Ge cp Accts Payables	Ge - Ap 4	605856	12/22/2015	Tom Fairfax	1	1	1	1	0

#	Owner	Roof Name	Roof Area	Date Installed	Contact Name	On-Time?	Satisfied?	Purchase?	Leaked?	Cur Leak?
100	Geop Accts Payables	Ge	1084	7/19/2016	Tom Fairfax	1	1	1	1	0
101	Geop Accts Payables	Ge	1084	7/19/2016	Tom Fairfax	1	1	1	1	0
102	Geop Accts Payables	Ge - Ap-2	6840	8/8/2016	Tom Fairfax	1	1	1	1	0
103	Geop Accts Payables	Ge - Ap-35	209221	8/17/2016	Tom Fairfax	1	1	1	1	0
104	Geop Accts Payables	Ge Ap 6	62060	8/19/2016	Tom Fairfax	1	1	1	1	0
105	Geop Accts Payables	Ge - Ap-90	25617	9/12/2016	Tom Fairfax	1	1	1	1	0
106	Geop Accts Payables	Ge - Ap-20	36596	10/5/2016	Tom Fairfax	1	1	1	1	0
107	General Electric Co.	Ge Ap 5	46769	1/1/2000	Tom Fairfax	1	1	1	1	0
108	General Electric Co.	Ge-Ap5 Product Conveyer	7885	7/28/2000	Tom Fairfax	1	1	1	1	0
109	General Electric Co.	Ge Monogram Hall	20023	12/6/2001	Tom Fairfax	1	1	1	1	0
110	General Electric Co.	Ge Ap #6	339104	6/20/2002	Tom Fairfax	1	1	1	1	0
111	General Electric Co.	Ge Ap #20 Power House	5280	8/5/2002	Tom Fairfax	1	1	1	1	0
112	General Electric Co.	General Electric Ap #26	14892	8/12/2002	Tom Fairfax	1	1	1	1	0
113	General Electric Co.	Ge	90247	10/10/2003	Tom Fairfax	1	1	1	1	0
114	Greater Clark County Schools	River Valley Middle School	47373	10/22/2008	Chad Schenck	1	1	1	0	0
115	Greater Clark County Schools	Greater Clark County Schools	38407	11/11/2008	Chad Schenck	1	1	1	0	0
116	Greater Clark County Schools	Greater Clark County Schools	46715	12/23/2009	Chad Schenck	1	1	1	0	0
117	Greater Clark County Schools	Greater Clark Roofing 2010	82530	10/15/2010	Chad Schenck	1	1	1	0	0
118	Greater Clark County Schools	Options Alternative School	8120	7/12/2011	Chad Schenck	1	1	1	0	0
119	Greater Clark County Schools	Greater Clark County Schools	73000	8/25/2011	Chad Schenck	1	1	1	0	0
120	Hendricks County Government	Paradise Tomato Kitchens	20363	5/8/2012	Nate Crosby	1	1	1	1	0
121	Hermitage United Methodist Chur	Hermitage United Methodist Chu	22500	4/27/2018	Brad Stevens	1	1	1	0	0
122	Huber Tires	Huber Tire Inc.	25635	4/17/2012	Tom Fairfax	1	1	1	1	0
123	Indiana Department Of Transportation	In Dot Cloverdale Sub	14215	8/20/2012	Mike	1	1	1	0	0
124	Industry Capital	Industry Capital	245000	4/27/2016	Andy Ramirez	1	1	1	0	0
125	Jbs Usa, Llc	Jbs Usa, Llc	37060	8/6/2018	Brad Carl	1	1	1	0	0
126	Jbs Usa, Llc	Jbs 11	11750	11/21/2018	Brad Carl	1	1	1	0	0
127	Kaba Mas Corp.	Kaba Mas Corp.	46620	8/9/2002	J.t. Logan	1	1	1	0	0
128	KY Association of Electrical Cooperation	Kentucky Electirc Coop	53985	10/11/1988	Peter Rastocny	1	1	1	1	0
129	Lafayette Christian Church	Lafayette Christian Church	6869	8/29/2002	Tom Hall	1	1	1	1	0
130	Loudon Co. Finance Administration	Loudon Co. Schools	208516	10/22/2009	Brian Brown	1	1	1	0	0
131	Madison County Board Of Education	Phillips Building	40252	9/11/2003	Pam Claussen	1	1	1	0	0
132	Madison County Board Of Education	Waco Elementary	5595	10/7/2003	Pam Claussen	1	1	1	0	0



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133	Madison County Board Of Education	Kit Carson Elementary	21294	10/7/2003	Pam Claussen	1	1	1	0	0
134	Madison County Board Of Education	Daniel Boone Elementary	33118	10/7/2003	Pam Claussen	1	1	1	0	0
135	Madison County Board Of Education	Clark Moores Middle School	9100	7/16/2004	Pam Claussen	1	1	1	0	0
136	Madison County Board Of Education	Waco Elementary	15774	7/16/2004	Pam Claussen	1	1	1	0	0
137	Madison County Board Of Education	Phillips Building	22064	7/16/2004	Pam Claussen	1	1	1	0	0
138	Madison County Board Of Education	Silver Creek Elementary	23541	8/24/2004	Pam Claussen	1	1	1	0	0
139	Madison County Board Of Education	Silver Creek Elementary	8650	12/9/2005	Pam Claussen	1	1	1	0	0
140	Madison County Board Of Education	Kit Carson Elementary	8360	12/8/2006	Pam Claussen	1	1	1	0	0
141	Madison County Board Of Education	White Hall Elementary	31022	12/8/2006	Pam Claussen	1	1	1	0	0
142	Meade Co. Board Of Education	Meade Co. High School	14723	7/27/2009	J Miller	1	1	1	0	0
143	Meade Co. Board Of Education	Ekron Elementary	7211	6/8/2011	J Miller	1	1	1	0	0
144	Meade Co. Board Of Education	Meade Co. Vocational School	32733	8/21/2006	J Miller	1	1	1	0	0
145	Meade Co. Board Of Education	Paineville Elementary School	6203	5/15/2007	J Miller	1	1	1	0	0
146	Meade Co. Schools	Meade Co. Schools (7 Bldgs)	178349	4/4/2003	J Miller	1	1	1	0	0
147	Meade Co. Schools	Ekron Elem/Mchs/Bus Garage	23587	7/31/2003	J Miller	1	1	1	0	0
148	Meade Co. Schools	Stuart Pepper M.s. New Const	8365	10/2/2003	J Miller	1	1	1	0	0
149	Meade Co. Schools	Meade Co. High School Gym	13340	11/3/2003	J Miller	1	1	1	0	0
150	Meade Co. Schools	Flaherty Elementary	19922	7/26/2004	J Miller	1	1	1	0	0
151	Meade Co. Schools	Flaherty Primary	64564	9/20/2010	J Miller	1	1	1	0	0
152	Meadowbrook Lakes Condo Assoc	Meadowbrook Lakes Condo	15000	9/7/2012	Tom Fairfax	1	1	1	1	0
153	Miba Bearings Us Llc	Miba Bearing	90504	10/3/2006	Gary Casto	1	1	1	0	0
154	Miba Bearings Us Llc	Miba Bearing	29205	11/10/2008	Gary Casto	1	1	1	0	0
155	Miba Bearings Us Llc	Miba Bearing - Sections A & F	23060	6/17/2010	Gary Casto	1	1	1	0	0
156	Msd Of Decator Township	Valley Mills Elementary (White)	7180	9/3/1998	Aaron Hillard	1	1	1	0	0
157	Msd Of Decator Township	Valley Mills Elementary (Gray)	15500	9/3/1998	Aaron Hillard	1	1	1	0	0
158	Msd Of Decator Township	West Northern Elementary	6552	1/1/2000	Aaron Hillard	1	1	1	0	0
159	Msd Of Decator Township	Decatur High School	19364	8/16/2000	Aaron Hillard	1	1	1	0	0
160	Msd Of Decator Township	Msd Of Decatur Twsp High Sch.	21195	7/5/2001	Aaron Hillard	1	1	1	0	0
161	Msd Of Decator Township	Msd Decatur High School	9197	4/10/2002	Aaron Hillard	1	1	1	0	0
162	Msd Of Decator Township	Valley Mills Elementary (Tan)	26800	8/29/2002	Aaron Hillard	1	1	1	0	0
163	Msd Of Decator Township	Armstrong Pavilion	39400	9/9/2004	Aaron Hillard	1	1	1	0	0
164	Msd Of Decator Township	Msd Of Decator H.s. Gym	27850	5/19/2008	Aaron Hillard	1	1	1	0	0
165	Msd Of Decator Township	Decatur H.s. Auxillary Gym	15000	8/19/2008	Aaron Hillard	1	1	1	0	0

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166	Msd Of Decatur Township	Decatur Middle School (Gray)	32121	9/3/1998	Aaron Hillard	1	1	1	0	0
167	Msd Of Decatur Township	Msd Of Decator High School	43000	8/10/2009	Aaron Hillard	1	1	1	0	0
168	Msd Of Decatur Township	Stephen Decatur Elementary	7500	5/3/2011	Aaron Hillard	1	1	1	0	0
169	Msd Of Decatur Township	Decatur Middle School (Tan)	10961	8/20/2012	Aaron Hillard	1	1	1	0	0
170	NAFC Schools - Floyd Central HS	Lower Section	175000	5/7/1999	Mike	1	1	1	0	0
171	NAFC Schools - Floyd Knobs El. Sc.	Main Entire Lower Roof Area	35000	12/10/2000	Mike	1	1	1	0	0
172	NAFC Schools - Hazelwood Jr. HS	Auditorium	8500	6/13/2000	Mike	1	1	1	0	0
173	NAFC Schools - Hazelwood Jr. HS	New section	131306	4/7/2004	Mike	1	1	1	0	0
174	NAFC Schools - Prosser Voc. School	A1 & A2	82012	8/12/1989	Mike	1	1	1	0	0
175	NAFC Schools - S. Ellen Jones	Gym Roof	7584	8/15/1983	Mike	1	1	1	0	0
176	NAFC Schools - Scribner Jr. HS	Main Cafeteria Roof Only	14276	6/15/2001	Mike	1	1	1	0	0
177	NAFC Schools - Slate Run	Main Entrnc (Admin Service Cntr)	31849	6/12/1992	Mike	1	1	1	0	0
178	New Albany Floyd County Schools Corp	Greenville Elementary School	44693	8/15/2006	Aaron Hillard	1	1	1	0	0
179	New Albany Floyd County Schools Corp	New Albany High School	105575	7/6/2015	Mike	1	1	1	0	0
180	New Albany Floyd County Schools Corp	S. Ellen Jones Elementary	52000	6/24/2016	Mike	1	1	1	0	0
181	New Albany Floyd County Schools Corp	Grantline Elementary	15008	8/26/2016	Mike	1	1	1	0	0
182	New Albany Floyd County Schools Corp	Old Galena Elementary	14932	5/17/2018	Mike	1	1	1	0	0
183	New Albany Floyd County Schools Corp	Slate Run Elementary	6840	1/1/2000	Mike	1	1	1	0	0
184	New Albany Floyd County Schools Corp	Galena Elementary School	10176	1/1/2000	Mike	1	1	1	0	0
185	New Albany Floyd County Schools Corp	Hazelwood Jr. High School	10599	1/1/2000	Mike	1	1	1	0	0
186	New Albany Floyd County Schools Corp	New Albany High School	11760	1/1/2000	Mike	1	1	1	0	0
187	New Albany Floyd County Schools Corp	Grantline Elementary School	13539	1/1/2000	Mike	1	1	1	0	0
188	New Albany Floyd County Schools Corp	Mt. Tabor Elementary School	14000	1/1/2000	Mike	1	1	1	0	0
189	New Albany Floyd County Schools Corp	Floyd Central High School	58612	1/1/2000	Mike	1	1	1	0	0
190	New Albany Floyd County Schools Corp	Prosser Vocational School	82240	1/1/2000	Mike	1	1	1	0	0
191	New Albany Floyd County Schools Corp	New Albany H.s.	35870	7/12/2000	Mike	1	1	1	0	0
192	New Albany Floyd County Schools Corp	Mt. Tabor Elementary	9760	6/15/2001	Mike	1	1	1	0	0
193	New Albany Floyd County Schools Corp	Scribner Jr High School	14276	6/15/2001	Mike	1	1	1	0	0
194	New Albany Floyd County Schools Corp	Hazlewood Jr. High School	16324	6/15/2001	Mike	1	1	1	0	0
195	New Albany Floyd County Schools Corp	Floyd Central High School	18301	7/17/2001	Mike	1	1	1	0	0
196	New Albany Floyd County Schools Corp	General Services Bldg.	9620	7/20/2001	Mike	1	1	1	0	0
197	New Albany Floyd County Schools Corp	M.I. Reiz	7546	8/31/2001	Mike	1	1	1	0	0
198	New Albany Floyd County Schools Corp	New Albany High School	20712	9/13/2001	Mike	1	1	1	0	0

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199	New Albany Floyd County Schools Corp	Scribner Jr. High School	21470	11/15/2001	Mike	1	1	1	0	0
200	New Albany Floyd County Schools Corp	Prosser Bus Garage	12188	8/8/2002	Mike	1	1	1	0	0
201	New Albany Floyd County Schools Corp	Galena Elementary	8587	9/8/2003	Mike	1	1	1	0	0
202	New Albany Floyd County Schools Corp	Lilian Emery Elementary School	31165	9/29/2003	Mike	1	1	1	0	0
203	New Albany Floyd County Schools Corp	Floyd Central H.s. (sec B2)	39057	7/28/2004	Mike	1	1	1	0	0
204	New Albany Floyd County Schools Corp	Floyds Knobs Elementary	21113	8/9/2005	Mike	1	1	1	0	0
205	New Albany Floyd County Schools Corp	Highland Hills Middle School	5491	10/19/2005	Mike	1	1	1	0	0
206	New Albany Floyd County Schools Corp	Green Valley Elementary	10366	7/24/2007	Mike	1	1	1	0	0
207	New Albany Floyd County Schools Corp	Floyd Central	5000	9/5/2007	Mike	1	1	1	0	0
208	Nth/works	Nth/works	97060	10/16/2012	Jerry Lankford	1	1	1	0	0
209	Paradise Tomato Kitchens Inc.	Paradise Tomato Kitchens	13200	8/3/2009	Nate Crosby	1	1	1	1	0
210	Paradise Tomato Kitchens Inc.	Paradise Tomato Kitchens	20371	5/31/2005	Nate Crosby	1	1	1	1	0
211	Paradise Tomato Kitchens Inc.	Paradise Tomato Kitchens	19657	6/15/2007	Nate Crosby	1	1	1	1	0
212	Parker Commercial Storage	Parker Commercial Storage	78228	1/1/2000	Sam Parker	1	1	1	1	0
213	Parker Commercial Storage	Parker Commercial Storage	52152	5/6/2002	Sam Parker	1	1	1	1	0
214	Resideo	Resideo	204809	12/18/2012	Eric Newton	1	0	0	1	0
215	Reynolds Consumer Products	Reynolds	13608	10/16/2018	George Pierce	1	1	1	0	0
216	Riverside Contracting	Milton School Apts	26610	10/29/2018	Keith Kimmel	1	1	1	0	0
217	Roane Co. Board Of Education	Roane Co. Board Of Education	10044	1/2/2006	Lee Maines	1	1	1	0	0
218	Roane County Schools	Roane County Board Of Educatio	10000	9/15/2016	Lee Maines	1	1	1	0	0
219	Roane County Schools	Roane County High School	69637	9/15/2011	Lee Maines	1	1	1	1	0
220	Roane County Schools	Rockwood Middle & H.s.	70800	7/18/2011	Lee Maines	1	1	1	0	0
221	Roof Management	Kroger Dc	14580	6/22/2016	Scott Jackson	1	1	1	0	0
222	Roof Management, Inc.	Kroger-Gables Shopping Center	76291	12/4/2005	Scott Jackson	1	1	1	0	0
223	Salem Community Schools	Salem Community Schools	261677	7/3/2002	Kim Thurston	1	1	1	0	0
224	Salem Community Schools	Salem Community Schools	261709	5/27/2015	Kim Thurston	1	1	1	0	0
225	Salem Community Schools	Salem High School - Shop Bldg	48,781	6/18/1986	Kim Thurston	1	1	1	0	0
226	Salem Communtiy Schools	Salem Middle School (Upper)	23,212	9/3/1983	Kim Thurston	1	1	1	0	0
227	Scott Co. School Dist. #2	Lexington Elementary Sch.	7300	1/1/2000	Bobby Riley	1	1	1	0	0
228	Scott Co. School Dist. #2	Scott Co. Dist. 2 - Meyer Gym	20000	8/29/2008	Bobby Riley	1	1	1	0	0
229	Scott Co. School Dist. #2	Scott Co. Dist. #2 Admin Bldg	6390	10/22/2008	Bobby Riley	1	1	1	0	0
230	Scott Co. School Dist. #2	New Tech High School	25475	9/29/2010	Bobby Riley	1	1	1	1	0
231	Scott County Board Of Education	Northern Elementary	40655	9/16/2008	Dwayne Ellison	1	1	1	0	0

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232	Scott County Board Of Education	Western Elementary School	29883	11/29/2011	Dwayne Ellison	1	1	1	0	0
233	Scott County Schools	Scott Co School Central Office	14800	6/30/2004	Dwayne Ellison	1	1	1	0	0
234	Scott County Schools	Scott Co. Alternative School	62000	6/30/2004	Dwayne Ellison	1	1	1	0	0
235	Scott County Schools	Scott Co. 9th Grade School	8225	9/27/2007	Dwayne Ellison	1	1	1	0	0
236	Scott County Schools	Scott County Middle School	6042	9/30/2008	Dwayne Ellison	1	1	1	0	0
237	Scott County Schools	Scott Co. Middle School Gym	13668	8/17/2009	Dwayne Ellison	1	1	1	0	0
238	Scott County Schools	Georgetown Middle School	23869	8/17/2009	Dwayne Ellison	1	1	1	0	0
239	Scott County Schools	Scott Co. Career Technology Ct	57333	12/2/2009	Dwayne Ellison	1	1	1	0	0
240	Scott County Schools	Stamping Ground Elementary	52883	3/11/2010	Dwayne Ellison	1	1	1	0	0
241	Scott County Schools	Scott County High School	141700	6/26/2012	Dwayne Ellison	1	1	1	0	0
242	Tell City - Troy Township	Tell City Jr. High School	40170	1/1/2000	John Smitson	1	1	1	0	0
243	Tell City - Troy Township	Tell City High School	49201	1/1/2000	John Smitson	1	1	1	0	0
244	Tell City - Troy Township	Tell City H.s. & Jr. High	55777	7/17/2001	John Smitson	1	1	1	0	0
245	Tell City - Troy Township	Tell City Jr. High School	14850	10/28/2004	John Smitson	1	1	1	0	0
246	Tell City - Troy Township	Tell City High School	50052	5/10/2005	John Smitson	1	1	1	0	0
247	Tell City - Troy Township	Tell City Jr. High School	6000	Blank	John Smitson	1	1	1	0	0
248	The Kroger Company	The Kroger Company	505000	1/31/2003	Scott Jackson	1	1	1	0	0
249	The Kroger Company	Wal Mart Plaza	31600	11/30/2004	Scott Jackson	1	1	1	0	0
250	TRANSIT AUTHORITY BARN	TRANSIT AUTHORITY BARN	40000	1/1/1982	Mike	1	1	1	0	0
251	United States Enrichment Corp.	United States Enrichment Corp.	219354	10/20/2008	Todd Walker	1	1	1	0	0
252	University of Kentucky	Chandler Medical Center	23520	9/7/2010	Dave Tyler	1	1	1	0	0
253	University of Kentucky	Dental Wing	15252	9/13/2010	Dave Tyler	1	1	1	0	0
254	University of Kentucky	Chemistry/Physics Bldg.	37060	9/19/2001	Dave Tyler	1	1	1	0	0
255	University of Kentucky	John Oswald Building - West Half	23,748	4/30/2003	Dave Tyler	1	1	1	0	0
256	University of Kentucky	M.i.k. Bldg	13000	11/29/2006	Dave Tyler	1	1	1	0	0
257	University of Kentucky	Chandler Medical Science Wing	25,667	8/14/2008	Dave Tyler	1	1	1	0	0
258	University of Kentucky	Thomas Hunt Morgan Bldg	24246	11/13/2008	Dave Tyler	1	1	1	0	0
259	University of Kentucky	Slone Research Bldg	11530	10/8/2009	Dave Tyler	1	1	1	0	0
260	University of Kentucky	Cooper Dairy	11898	10/21/2009	Dave Tyler	1	1	1	0	0
261	University of Kentucky	Peterson Service Bld (SW Corner)	7,700	11/10/2009	Dave Tyler	1	1	1	0	0
262	University of Kentucky	HsrB Building	20027	6/24/2010	Dave Tyler	1	1	1	0	0
263	University of Kentucky	Peterson Service Building	12,350	6/30/2010	Dave Tyler	1	1	1	0	0
264	University of Kentucky	Lancaster Aquatic Center	10147	9/13/2010	Dave Tyler	1	1	1	0	0

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265	University of Kentucky	Nutter Training Facility	48,500	10/8/2010	Dave Tyler	1	1	1	0	0
266	University of Kentucky	Kentucky Clinic & Medical	80965	10/12/2010	Dave Tyler	1	1	1	0	0
267	University of Kentucky	Boone Tennis Center	36960	11/3/2010	Dave Tyler	1	1	1	0	0
268	University of Kentucky	Digital Village Phase li	8010	2/2/2011	Dave Tyler	1	1	1	0	0
269	University of Kentucky	Business & Economics Bldg	31,207	6/14/2011	Dave Tyler	1	1	1	0	0
270	University of Kentucky	Mrisc Building	5624	6/27/2011	Dave Tyler	1	1	1	0	0
271	University of Kentucky	Singletary Center For Arts	20102	7/13/2011	Dave Tyler	1	1	1	0	0
272	University of Kentucky	Gluck Equine Research Ctr	8,091	8/1/2011	Dave Tyler	1	1	1	0	0
273	University of Kentucky	Good Smaritan	5836	9/26/2011	Dave Tyler	1	1	1	0	0
274	University of Kentucky	Robotics	13245	10/26/2011	Dave Tyler	1	1	1	0	0
275	University of Kentucky	Tobacco & Health Bldg.	11098	9/27/2002	Dave Tyler	1	1	1	0	0
276	University of Kentucky	Lexington Community College	24427	10/21/2003	Dave Tyler	1	1	1	0	0
277	University of Kentucky	Astecc Bulding	24,947	11/15/2011	Dave Tyler	1	1	1	0	0
278	University of Kentucky	Law Building	28,600	11/29/2011	Dave Tyler	1	1	1	0	0
279	University of Kentucky	Alumni Gym	22326	Blank	Dave Tyler	1	1	1	0	0
280	University of Kentucky	Student Center 3	6251	Blank	Dave Tyler	1	1	1	0	0
281	University of Kentucky	Erickson Hall	10776	Blank	Dave Tyler	1	1	1	0	0
282	University of Kentucky	Student Center	16800	Blank	Dave Tyler	1	1	1	0	0
283	University of Kentucky	Student Center #0030	17227	Blank	Dave Tyler	1	1	1	0	0
284	University Of Kentucky	College Of Nursing	5351	5/9/2018	Dave Tyler	1	1	1	0	0
285	University Of Kentucky	KY Clinic Mri	750	11/20/2018	Dave Tyler	1	1	1	0	0
286	University Of Kentucky	Chandler Helipad	24893	12/19/2018	Dave Tyler	1	1	1	0	0
287	Viskase Corporation	Viskase Corporation	25000	12/14/2000	Greg	1	1	1	0	0
288	Viskase Corporation	Viskase - Section "a"	23430	4/19/2001	Greg	1	1	1	0	0
289	Viskase Corporation	Viskase Corporation	24480	7/22/2002	Greg	1	1	1	0	0
290	Viskase Corporation	Viskase Corporation	32760	10/11/2002	Greg	1	1	1	0	0
291	Viskase Corporation	Viskase Corporation	32305	10/16/2002	Greg	1	1	1	0	0
292	Viskase Corporation	Viskase Corporation	6800	10/8/2008	Greg	1	1	1	0	0
293	Viskase Corporation	Viskase Corporation	46350	5/4/2010	Greg	1	1	1	0	0