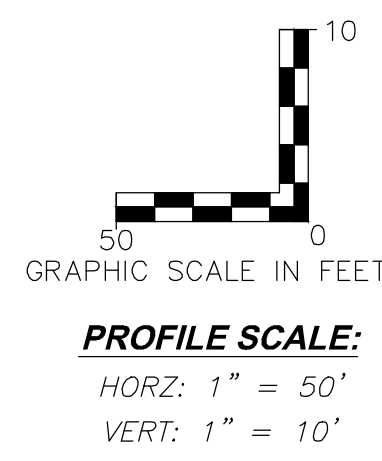


PR STRM 1      PR STRM 2      PR STRM 3      PR STRM 4      PR STRM 5      PR STRM 6



PIPES

SN	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Outlet Invert Elevation (ft)	Total Drop (ft)	Average Slope (%)	Pipe Diameter or Height (inches)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Max Flow Velocity (ft/sec)	Travel Time (min)	Design Flow Capacity (cfs)	Max Flow / Design Flow Ratio	Max Flow Depth / Total Depth Ratio	Max Flow Depth (ft)	Reported Condition
1	YD01	Outfall	49.91	496.94	493.73	3.21	6.4300	12.000	0.0130	0.5000	0.5000	0.0000	1.07	0 00:20	7.71	0.11	9.04	0.12	0.23	0.23	Calculated
2	GI10	GI09	172.65	508.46	500.69	7.77	4.5000	12.000	0.0130	0.5000	0.5000	0.0000	0.53	0 00:20	8.84	0.33	7.56	0.07	0.18	0.18	Calculated
3	AI12	EX-NE	58.54	494.34	493.26	1.08	1.8400	15.000	0.0130	0.5000	0.5000	0.0000	7.66	0 00:20	8.58	0.11	9.40	0.81	0.89	0.86	Calculated
4	AI13	AI12	236.53	505.61	494.50	11.11	4.7000	12.000	0.0130	0.5000	0.5000	0.0000	0.93	0 00:20	10.99	0.36	7.72	0.12	0.23	0.23	Calculated
5	FE14	AI12	76.64	500.60	494.50	6.10	7.9600	12.000	0.0130	0.5000	0.5000	0.0000	6.38	0 00:20	14.87	0.09	10.05	0.63	0.58	0.58	Calculated
6	OS02	YD01	30.15	497.25	496.94	0.31	1.0300	12.000	0.0130	0.5000	0.5000	0.0000	0.63	0 00:24	3.46	0.15	3.61	0.18	0.28	0.28	Calculated
7	MH04	FE03	11.48	498.18	497.98	0.20	1.7400	12.000	0.0130	0.5000	0.5000	0.0000	1.92	0 00:20	5.72	0.03	4.74	0.41	0.44	0.44	Calculated
8	AI05	MH04	142.13	508.11	504.77	3.34	2.3500	12.000	0.0130	0.5000	0.5000	0.0000	0.96	0 00:20	8.07	0.29	5.46	0.18	0.28	0.28	Calculated
9	GI06	MH04	38.54	505.16	504.77	0.39	1.0100	12.000	0.0130	0.5000	0.5000	0.0000	0.96	0 00:20	3.87	0.17	3.58	0.27	0.35	0.35	Calculated
10	GI07	GI06	146.00	508.36	505.26	3.10	2.1200	12.000	0.0130	0.5000	0.5000	0.0000	0.54	0 00:20	6.95	0.35	5.19	0.10	0.22	0.22	Calculated
11	GI09	FE08	43.71	498.44	498.00	0.44	1.0100	12.000	0.0130	0.5000	0.5000	0.0000	1.17	0 00:20	4.10	0.18	3.57	0.33	0.39	0.39	Calculated

SUB BASINS

SN	Element ID	Area (acres)	Drainage Node ID	Weighted Runoff Coefficient	Accumulated Precipitation (inches)	Total Runoff (inches)	Peak Runoff (cfs)	Rainfall Intensity (inches/hr)	Time of Concentration (days hh:mm:ss)
1	DR-01	0.28	YD01	0.3400	1.64	0.56	0.47	4.920	0 00:05:00
2	DR-02	0.09	OS02	0.3400	1.64	0.56	0.15	4.920	0 00:05:00
3	DR-05	0.27	AI05	0.7200	1.64	1.18	0.96	4.920	0 00:05:00
4	DR-06	0.12	GI06	0.7200	1.64	1.18	0.43	4.920	0 00:05:00
5	DR-07	0.15	GI07	0.7200	1.64	1.18	0.53	4.920	0 00:05:00
6	DR-09	0.18	GI09	0.7200	1.64	1.18	0.64	4.920	0 00:05:00
7	DR-10	0.15	GI10	0.7200	1.64	1.18	0.53	4.920	0 00:05:00
8	DR-12	0.21	AI12	0.3400	1.64	0.56	0.35	4.920	0 00:05:00
9	DR-13	0.26	AI13	0.7200	1.64	1.18	0.92	4.920	0 00:05:00
10	DR-14	1.80	FE14	0.7200	1.64	1.18	6.38	4.920	0 00:05:00

JUNCTIONS

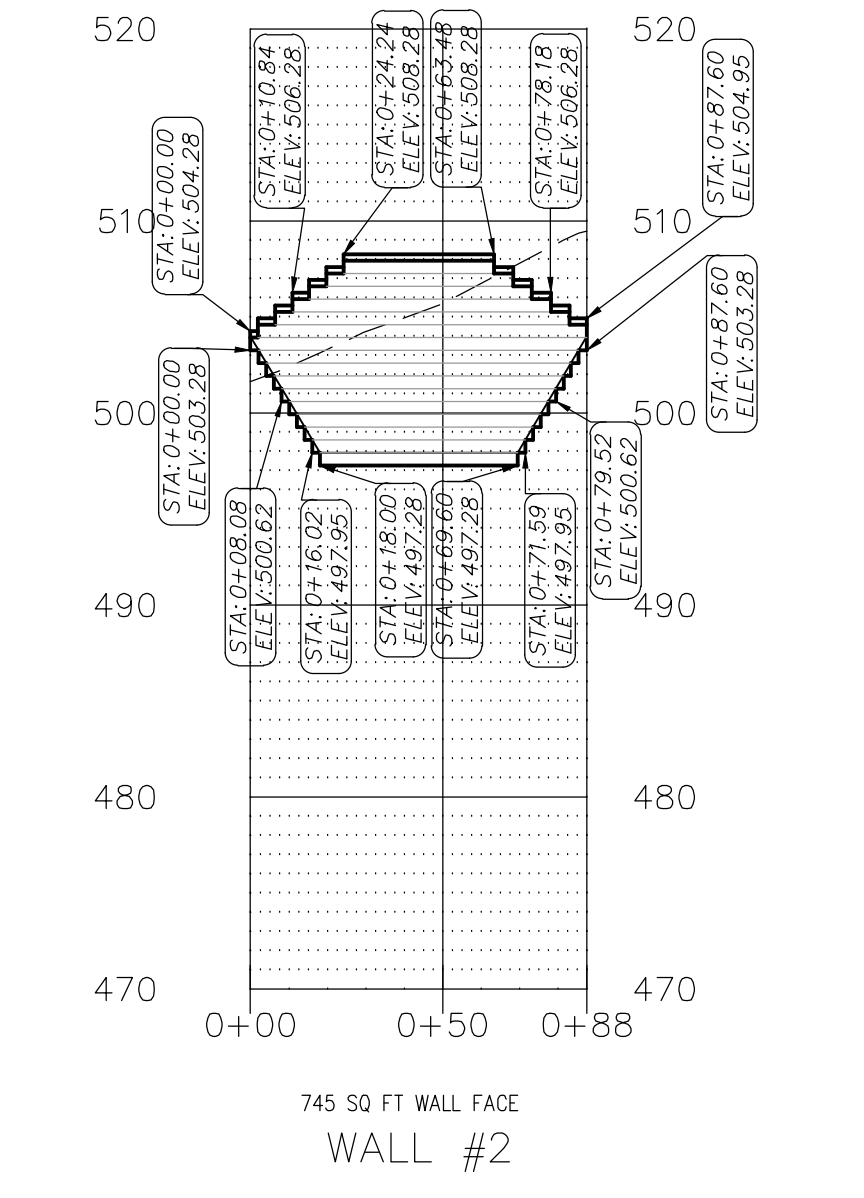
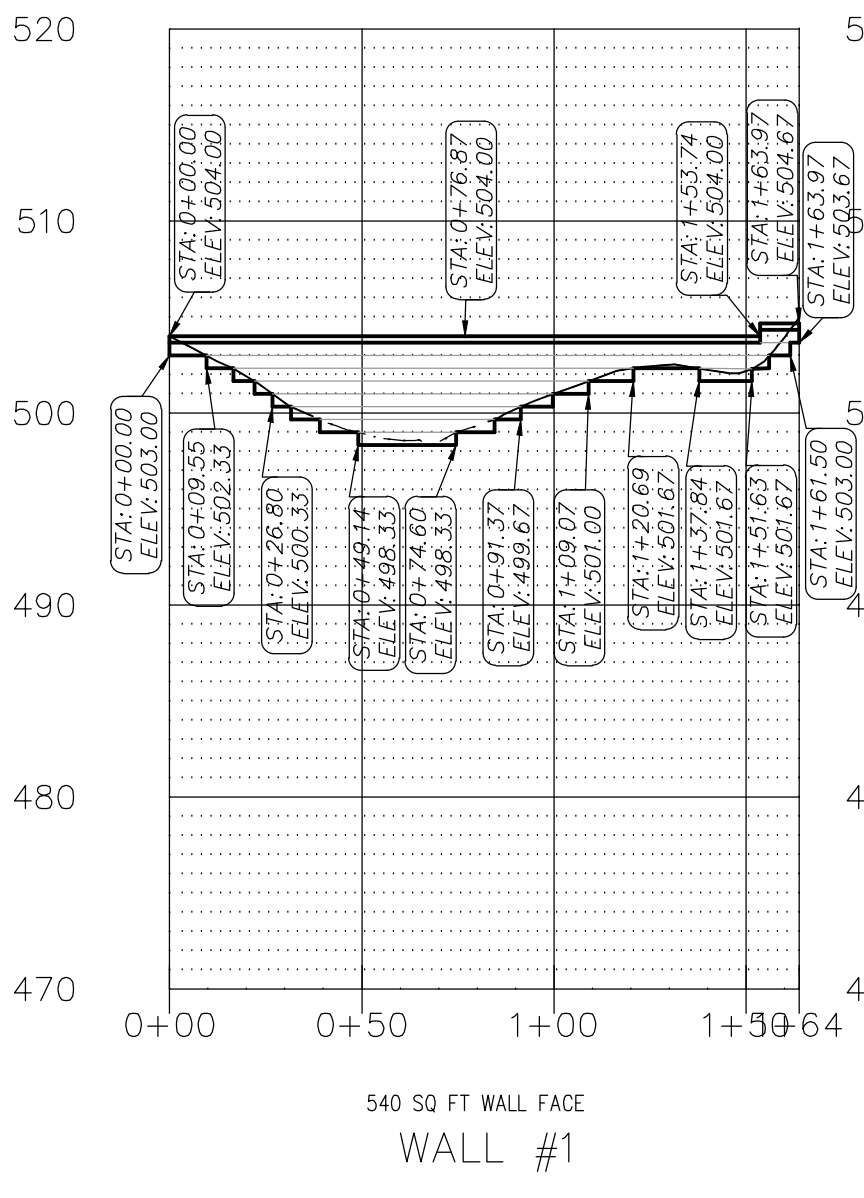
SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Maximum HGL Elevation Attained (ft)	HGL Depth Attained (ft)	Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Maximum HGL Occurrence (days hh:mm)
1	AI05	508.11	512.70	4.59	508.11	0.00	512.70	0.96	0.96	508.39	0.28	4.31	508.11	0.00	0 00:05
2	AI12	494.50	500.50	6.00	494.50	0.00	500.50	7.66	0.35	495.36	0.86	5.14	494.51	0.01	0 00:20
3	AI13	505.61	511.44	5.83	505.61	0.00	511.44	0.92	0.92	505.84	0.23	5.60	505.61	0.00	0 00:05
4	FE14	500.60	501.85	1.25	500.60	0.00	501.85	6.38	6.38	501.18	0.58	0.67	500.61	0.01	0 00:05
5	GI06	505.16	509.76	4.60	505.16	0.00	509.76	0.96	0.43	505.51	0.35	4.25	505.26	0.10	0 00:12
6	GI07	508.36	512.86	4.50	508.36	0.00	512.86	0.53	0.53	508.58	0.22	4.28	508.36	0.00	0 00:05
7	GI09	498.44	505.24	6.80	498.44	0.00	505.24	1.17	0.64	500.87	2.43	4.37	500.69	2.25	0 00:20
8	GI10	508.46	512.96	4.50	508.46	0.00	512.96	0.53	0.53	508.64	0.18	4.32	508.46	0.00	0 00:05
9	MH04	498.18	510.20	12.02	498.18	0.00	510.20	1.92	0.00	505.12	6.94	5.08	504.78	6.60	0 00:20
10	YD01	496.94	498.67	1.73	496.94	0.00	0.00	1.07	0.47	497.22	0.28	1.45	496.97	0.03	0 00:24

STORAGE NODE

SN	Element ID	Invert Elevation (ft)	Max (Rim) Elevation (ft)	Max (Rim) Offset (ft)	Initial Water Elevation (ft)	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Peak Outflow (cfs)	Maximum HGL Elevation Attained (ft)	Maximum HGL Depth Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Maximum HGL Occurrence (days hh:mm)
1	OS02	497.25	504.00	6.75	497.25	3.29	0.32	2.58	497.88	0.63	497.25	0.00	0 00:06

OUTFALLS

SN	Element ID	Invert Elevation (ft)	Boundary Type	Flap Gate	Fixed Water Elevation (ft)	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Maximum HGL Depth Attained (ft)	Maximum HGL Elevation Attained (ft)
1	EX-NE	493.26	FREE	NO		7.66	0.00	0.86	494.12
2	Outfall	493.73	FREE	NO		1.07	0.00	0.23	493.96



**UTILITIES NOTE**  
 UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UTILITIES LOCATED IN THE FIELD PRIOR TO EXCAVATION OR CONSTRUCTION.



**RELIABLE INVESTMENTS**  
 Improvement Plans  
 Profiles



**Pickett Ray & Silver**  
 Part of Civil & Environmental Consultants, Inc. (CEC)  
 St. Charles  
 3000 Little Hills Esplanade  
 Suite 102  
 St. Charles, MO 63301

**ENGINEER'S AUTHENTICATION**  
 The responsibility for professional engineering liability on this project is hereby limited to the set of plans authorized by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthorized.



KARL ANTHONY SCHOENKE, P.E.  
 PE-2003015039

**Owner Information:**  
 Reliable Investments  
 1262 Perouque Ridge Drive  
 Wentzville, MO 63385

**City of O'Fallon Site Plan**

P+Z No.: 21-009215  
 Approval Date: 11-04-2021

City No.:

Page No.