STORM SEWER COMPUTATIONS
Clarity Pointe Memory Care Facility

LOCATION			BASIN DATA								PIPE DATA							
Inlet	Area	Outlet	Incre. Area (acres)	Total Area (acres)	Coeff. "C" Value	Incre. C x A (acres)	Sum C x A (acres)	Total Tc (min)	Intensity "I" (in/hr)	**Flow Req. (cfs)**	Pipe Size (in)	"n" Value	Pipe Length (ft)	Pipe Slope (ft/ft)	US Invert (ft)	DS Invert (ft)	Mean Velocity (ft/sec)	**Flow Capacity (cfs)**
EXISTING AREA		CB-214	1.400	1.400	0.60	0.840	0.840	11.67	4.90	**4.12**	-----Existing Pipe-----							
(from report)																		
CO-216	1	YD-215	0.046	0.046	0.95	0.044	0.044	10	5.15	**0.23**	8	0.010	54	0.0200	867.57	866.49	6.38	**2.23**
YD-215	2	CB-214	0.054	0.100	0.85	0.046	0.090	10	5.15	**0.46**	12	0.013	75	0.0197	866.39	864.91	6.39	**5.02**
CB-214	3	CB-213	0.334	1.834	0.75	0.251	1.180	10	7.32	**8.63**	24	0.013	80	0.0032	862.75	862.49	4.12	**12.93**
CB-213	4	CB-211	0.662	2.496	0.75	0.497	1.677	10	7.32	**12.27**	24	0.013	83	0.0033	862.44	862.17	4.12	**12.94**
YD-212	6	CB-211	0.129	0.129	0.72	0.093	0.093	10	5.15	**0.48**	12	0.013	60	0.0198	867.47	866.28	6.41	**5.03**
CB-211	5	MH-207	0.200	2.825	0.75	0.150	1.919	10	7.32	**14.04**	24	0.013	85	0.0033	862.12	861.84	4.14	**13.02**
YD-210	9	YD-209	0.040	0.040	0.82	0.033	0.033	10	5.15	**0.17**	12	0.013	40	0.0197	867.73	866.94	6.39	**5.02**
YD-209	8	MH-207	0.054	0.094	0.56	0.030	0.063	10	5.15	**0.32**	12	0.013	28	0.0196	866.94	866.39	6.37	**5.01**
MH-208	16	MH-207	2.974	2.974	0.75	2.231	2.231	10	5.15	**11.49**	30	0.013	74	0.0277	866.86	864.81	13.94	**68.45**
MH-207	7	CB-203	0.235	6.128	0.75	0.176	4.389	10	7.32	**32.12**	36	0.013	87	0.0032	861.79	861.51	5.37	**37.94**
MH-204	15	CB-203	0.586	0.586	0.85	0.498	0.498	10	5.15	**2.57**	12	0.013	48	0.0198	867.7	866.75	6.40	**5.03**
YD-206	11	YD-205	0.054	0.054	0.83	0.045	0.045	10	5.15	**0.23**	12	0.013	41	0.0198	867.3	866.49	6.39	**5.02**
YD-205	10	CB-203	0.055	0.109	0.82	0.045	0.090	10	5.15	**0.46**	12	0.013	42	0.0352	866.49	865.01	8.54	**6.71**
CB-203	12	CB-202	0.365	7.188	0.75	0.274	5.251	10	7.32	**38.42**	42	0.013	82	0.0033	861.46	861.19	6.02	**57.89**
CB-202	13	MH-201	0.136	7.324	0.75	0.102	5.353	10	7.32	**39.17**	42	0.013	71	0.0032	861.14	860.91	5.97	**57.42**
MH-201	14	HW-200	0.019	7.343	0.95	0.018	5.371	10	7.32	**39.30**	42	0.013	22	0.0032	860.86	860.79	5.91	**56.90**
CO-310	20	YD-301	0.411	0.411	0.75	0.308	0.308	10	5.15	**1.59**	8	0.010	131	0.0198	868.43	865.83	6.36	**2.22**
YD-302	19	YD-301	0.334	0.334	0.75	0.251	0.251	10	5.15	**1.29**	12	0.013	33	0.0194	866.61	865.97	6.33	**4.97**
YD-301	17	HW-300	0.135	0.880	0.95	0.128	0.687	10	5.15	**3.54**	12	0.013	117	0.0199	865.73	863.40	6.42	**5.04**
CO-406	18	HW-400	0.139	0.139	0.95	0.132	0.132	10	5.15	**0.68**	8	0.010	277	0.0364	868.01	857.92	8.61	**3.01**

DESIGNED: KCK
REVIEWED:
File: 150275STM000 LOCAL STM NETWORK.xlsx