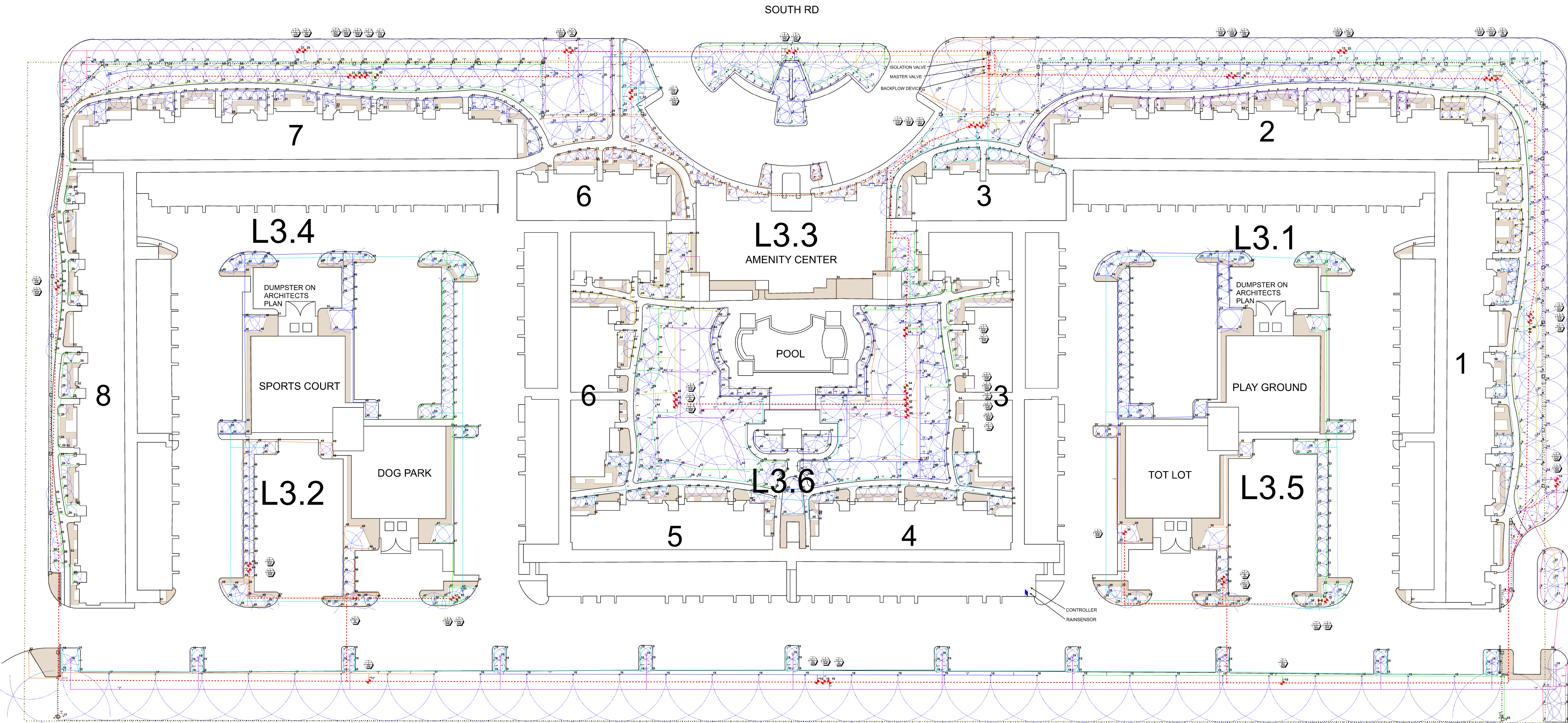




Water Source #1	
Meter Size	2 inch meter
Static Pressure	65 psi
Elevation Change	0 ft
Service Line Information	
Pipe Category	Poly 160
Pipe Size	Poly 160 2"
Length	0 ft
Velocity	5 fps
Recommendations	
Maximum Recommended Flow	90 gpm
Available Working Pressure	53 psi

Run Set: 11		Run Set: 14		Run Set: 16		Run Set: 17		Run Set: 34		Run Set: 41		Run Set: 49	
Water Source #1		Water Source #1		Water Source #1		Water Source #1		Water Source #1		Water Source #1		Water Source #1	
Type	Meter	Type	Meter	Type	Meter	Type	Meter	Type	Meter	Type	Meter	Type	Meter
Static Pressure	65 psi	Static Pressure	65 psi	Static Pressure	65 psi	Static Pressure	65 psi	Static Pressure	65 psi	Static Pressure	65 psi	Static Pressure	65 psi
Service Line	0 psi	Service Line	0 psi	Service Line	0 psi	Service Line	0 psi	Service Line	0 psi	Service Line	0 psi	Service Line	0 psi
Filter Loss	1.899 psi	Filter Loss	1.075 psi	Filter Loss	0.47 psi	Filter Loss	0.51 psi	Filter Loss	0.51 psi	Filter Loss	0.51 psi	Filter Loss	0.676 psi
Mainline Components		Mainline Components		Mainline Components		Mainline Components		Mainline Components		Mainline Components		Mainline Components	
Backflow Loss	2.75 psi	Backflow Loss	2.5 psi	Backflow Loss	2.5 psi	Backflow Loss	2.5 psi	Backflow Loss	2.5 psi	Backflow Loss	2.5 psi	Backflow Loss	2.5 psi
Master Valve Loss	2.199 psi	Master Valve Loss	1.655 psi	Master Valve Loss	1.462 psi	Master Valve Loss	1.462 psi	Master Valve Loss	1.5 psi	Master Valve Loss	1.5 psi	Master Valve Loss	1.5 psi
Filter Loss	0 psi	Filter Loss	0 psi	Filter Loss	0 psi	Filter Loss	0 psi	Filter Loss	0 psi	Filter Loss	0 psi	Filter Loss	0 psi
Zone 11 @ 49.99 gpm		Zone 14 @ 37.75 gpm		Zone 16 @ 19.5 gpm		Zone 17 @ 19.5 gpm		Zone 34 @ 36.86 gpm		Zone 41 @ 21 gpm		Zone 49 @ 26.26 gpm	
Mainline Loss	2.21 psi	Mainline Loss	3.8 psi	Mainline Loss	1.19 psi	Mainline Loss	1.2 psi	Mainline Loss	5.27 psi	Mainline Loss	0.89 psi	Mainline Loss	2.8 psi
Valve Loss	2.2 psi	Valve Loss	1.655 psi	Valve Loss	3 psi	Valve Loss	3 psi	Valve Loss	1.637 psi	Valve Loss	1.5 psi	Valve Loss	1.5 psi
Lateral Loss	0.716 psi	Lateral Loss	0.806 psi	Lateral Loss	0.11 psi	Lateral Loss	0.237 psi	Lateral Loss	4.692 psi	Lateral Loss	0.025 psi	Lateral Loss	0.232 psi
Fittings Loss	0.585 psi	Fittings Loss	0.92 psi	Fittings Loss	0.26 psi	Fittings Loss	0.996 psi	Fittings Loss	0.996 psi	Fittings Loss	0.203 psi	Fittings Loss	0.697 psi
Elevation	0 psi	Elevation	0 psi	Elevation	0 psi	Elevation	0 psi	Elevation	0 psi	Elevation	0 psi	Elevation	0 psi
Sprinkler Requirement	30 psi	Sprinkler Requirement	30 psi	Sprinkler Requirement	45 psi	Sprinkler Requirement	45 psi	Sprinkler Requirement	30 psi	Sprinkler Requirement	45 psi	Sprinkler Requirement	30 psi
Total Design Pressure	41.971 psi	Total Design Pressure	41.486 psi	Total Design Pressure	53.735 psi	Total Design Pressure	53.867 psi	Total Design Pressure	46.737 psi	Total Design Pressure	52.027 psi	Total Design Pressure	39.21 psi
Residual Pressure	23.029 psi	Residual Pressure	23.514 psi	Residual Pressure	11.265 psi	Residual Pressure	11.133 psi	Residual Pressure	18.263 psi	Residual Pressure	12.973 psi	Residual Pressure	25.79 psi

Irrigation						
Quantity	Symbol	Description	Part Number	Pressure	Flow	Radius
Sprinklers						
30	●	Hunter PGP-1.5 Blue - PGP-ADJ	1.5	45 psi	1.5 gpm	31 ft
26	●	Hunter PGP-1.5 Blue - PGP-ADJ	1.5	45 psi	1.5 gpm	31 ft
17	●	Hunter PGP-3.0 Blue - PGP-ADJ	3	45 psi	3 gpm	38 ft
2	●	Hunter PGP-6.0 Blue - PGP-360	6	45 psi	6 gpm	43 ft
45	●	Rain Bird 10H - 1812	10H	30 psi	0.79 gpm	10 ft
16	●	Rain Bird 10Q - 1804	10Q	30 psi	0.39 gpm	10 ft
23	●	Rain Bird 10Q - 1812	10Q	30 psi	0.39 gpm	10 ft
20	●	Rain Bird 10-VAN 180 - 1804	10-VAN	30 psi	1.45 gpm	10 ft
10	●	Rain Bird 10-VAN 90 - 1804	10-VAN	30 psi	0.75 gpm	10 ft
16	●	Rain Bird 12H - 1804	12H	30 psi	1.3 gpm	12 ft
9	●	Rain Bird 12H - 1812	12H	30 psi	1.3 gpm	12 ft
25	●	Rain Bird 12Q - 1804	12Q	30 psi	0.65 gpm	12 ft
3	●	Rain Bird 12Q - 1812	12Q	30 psi	0.65 gpm	12 ft
38	●	Rain Bird 12-VAN 180 - 1804	12-VAN	30 psi	1.3 gpm	12 ft
7	●	Rain Bird 12-VAN 180 - 1812	12-VAN	30 psi	1.3 gpm	12 ft
2	●	Rain Bird 12-VAN 90 - 1804	12-VAN	30 psi	0.65 gpm	12 ft
10	●	Rain Bird 12-VAN 90 - 1812	12-VAN	30 psi	0.65 gpm	12 ft
98	●	Rain Bird 1404	1404	30 psi	1 gpm	0 ft
91	●	Rain Bird 15H - 1804	15H	30 psi	1.85 gpm	15 ft
36	●	Rain Bird 15Q - 1804	15Q	30 psi	0.92 gpm	15 ft
80	●	Rain Bird 15-VAN 180 - 1804	15-VAN	30 psi	1.85 gpm	15 ft
31	●	Rain Bird 15-VAN 90 - 1804	15-VAN	30 psi	0.92 gpm	15 ft
184	●	Rain Bird 6-VAN 180 - 1804	6-VAN	30 psi	0.6 gpm	6 ft
50	●	Rain Bird 6-VAN 180 - 1812	6-VAN	30 psi	0.6 gpm	6 ft
201	●	Rain Bird 6-VAN 90 - 1804	6-VAN	30 psi	0.37 gpm	6 ft
23	●	Rain Bird 6-VAN 90 - 1812	6-VAN	30 psi	0.37 gpm	6 ft
5	●	Rain Bird 8F - 1812	8F	30 psi	1.05 gpm	8 ft
188	●	Rain Bird 8H - 1804	8H	30 psi	0.52 gpm	8 ft
118	●	Rain Bird 8H - 1812	8H	30 psi	0.52 gpm	8 ft
5	●	Rain Bird 8Q - 1804	8Q	30 psi	0.26 gpm	8 ft
5	●	Rain Bird 8Q - 1812	8Q	30 psi	0.26 gpm	8 ft
52	●	Rain Bird 8-VAN 180 - 1804	8-VAN	30 psi	1.19 gpm	8 ft
14	●	Rain Bird 8-VAN 180 - 1812	8-VAN	30 psi	1.19 gpm	8 ft
54	●	Rain Bird 8-VAN 90 - 1804	8-VAN	30 psi	0.57 gpm	8 ft
10	●	Rain Bird 8-VAN 90 - 1812	8-VAN	30 psi	0.57 gpm	8 ft

Meters/Pumps	
1	2 inch meter
Backflow Devices	
1	Febco 765 - 1 1/2" 765 - 1 1/2"
Control Valves	
19	Hunter ICV-101G ICV-101G
32	Hunter ICV-151G ICV-151G
6	Rain Bird XCZ-100-PRF XCZ-100-PRF
1	Rain Bird XCZ-PRB-150-COM XCZ-PRB-150-COM
Irrigation Accessories	
1	Hunter MINI-CLIK MINI-CLIK
1	Nibco 2" Isolation valve
Lateral Line Pipe	
3550 ft	Class 315 1/2"
1802 ft	Class 200 3/4"
2873 ft	Class 200 1"
2860 ft	Class 200 1 1/4"
4769 ft	Schedule 40 1 1/2"
1466 ft	Class 200 1 1/2"
4469 ft	Class 200 2"
Mainline Pipe	
2128 ft	Schedule 40 2" 0
Drip Tubing	
8589 ft	Rain Bird XFS-06-18 XFS-06-18

Sprinkler Zone Data			
Zone #	Total Area	Total Flow	Precip Rate
1	2614.4 Sq/Ft	33.54 gpm	1.24 in/hr
2	1267.3 Sq/Ft	19.47 gpm	1.48 in/hr
3	686.67 Sq/Ft	17.23 gpm	2.42 in/hr
4	2097.8 Sq/Ft	40.08 gpm	1.84 in/hr
5	1395.97 Sq/Ft	30.42 gpm	2.1 in/hr
6	1502.34 Sq/Ft	34.49 gpm	2.21 in/hr
7	702.86 Sq/Ft	19.71 gpm	2.7 in/hr
8	1802.4 Sq/Ft	24.27 gpm	1.3 in/hr
9	2739.01 Sq/Ft	37.87 gpm	1.33 in/hr
10	2878.53 Sq/Ft	41.29 gpm	1.38 in/hr
11	3287.1 Sq/Ft	49.99 gpm	1.46 in/hr
12	3285.53 Sq/Ft	28.5 gpm	0.84 in/hr
13	4879.75 Sq/Ft	41.62 gpm	0.82 in/hr
14	4344.7 Sq/Ft	37.75 gpm	0.84 in/hr
15	9880.75 Sq/Ft	19.5 gpm	0.19 in/hr
16	12413.25 Sq/Ft	19.5 gpm	0.15 in/hr
17	9325.18 Sq/Ft	19.5 gpm	0.2 in/hr
18	1408.42 Sq/Ft	22.36 gpm	1.53 in/hr
19	37.47 Sq/Ft	12 gpm	30.84 in/hr
20	1763.55 Sq/Ft	30.76 gpm	1.68 in/hr
21	1547.65 Sq/Ft	38.77 gpm	2.41 in/hr
22	1825.82 Sq/Ft	32.33 gpm	1.71 in/hr
23	805.61 Sq/Ft	11.97 gpm	1.43 in/hr
24	2284.18 Sq/Ft	24 gpm	1.01 in/hr
25	2305.68 Sq/Ft	19.42 gpm	0.81 in/hr
26	2275.48 Sq/Ft	18.5 gpm	0.78 in/hr
27	455.54 Sq/Ft	7.15 gpm	1.51 in/hr
28	2431.68 Sq/Ft	38.05 gpm	1.51 in/hr
29	2792.88 Sq/Ft	38.84 gpm	1.34 in/hr
30	53.08 Sq/Ft	17 gpm	30.84 in/hr
31	90.55 Sq/Ft	29 gpm	30.84 in/hr
32	415.2 Sq/Ft	5.85 gpm	1.36 in/hr
33	1838.63 Sq/Ft	30.51 gpm	1.6 in/hr
34	2092.1 Sq/Ft	36.86 gpm	1.7 in/hr
35	1428.18 Sq/Ft	17.94 gpm	1.21 in/hr
36	49.96 Sq/Ft	16 gpm	30.84 in/hr
37	1734.08 Sq/Ft	23.21 gpm	1.29 in/hr
38	1998.04 Sq/Ft	29.39 gpm	1.42 in/hr
39	1924 Sq/Ft	28.99 gpm	1.45 in/hr
40	1643.1 Sq/Ft	30.83 gpm	1.81 in/hr
41	3730.73 Sq/Ft	21 gpm	0.54 in/hr
42	2857.3 Sq/Ft	27.69 gpm	0.93 in/hr
43	3986.74 Sq/Ft	21 gpm	0.51 in/hr
44	1670.27 Sq/Ft	23.58 gpm	1.36 in/hr
45	1792.5 Sq/Ft	39.13 gpm	2.1 in/hr
46	24.98 Sq/Ft	8 gpm	30.84 in/hr
47	1857.46 Sq/Ft	30.88 gpm	1.6 in/hr
48	1443.33 Sq/Ft	28.17 gpm	1.88 in/hr
49	2066.66 Sq/Ft	26.26 gpm	1.22 in/hr
50	49.96 Sq/Ft	16 gpm	30.84 in/hr

Drip Zone Data			
Zone #	Total Area	Total Flow	Precip Rate
51	2210.67 Sq/Ft	585.6 gph	0.43 in/hr
52	1281 Sq/Ft	339 gph	0.42 in/hr
53	1217.47 Sq/Ft	321 gph	0.42 in/hr
54	3606.03 Sq/Ft	950.4 gph	0.42 in/hr
55	1329.73 Sq/Ft	349.8 gph	0.42 in/hr
56	976.17 Sq/Ft	257.4 gph	0.42 in/hr
57	2211.18 Sq/Ft	586.2 gph	0.43 in/hr

The maximum velocity of the PVC water piping will not exceed 5 linear feet per second.
Plans and instruction manuals will be kept on site during the installation of the system.
Proposed watering schedule will be programmed into controller.
There will be a permanent sticker on controller.
Wiring used to connect controller is U.L. approved.
Irrigation in Texas is regulated by the Texas Commission on Environmental Quality (TCEQ) (MC-178).
PO Box 13057, Austin, Texas 78711-3057.
TCEQ's website is: www.tceq.state.tx.us.
Backflow preventer will need to be tested yearly.

