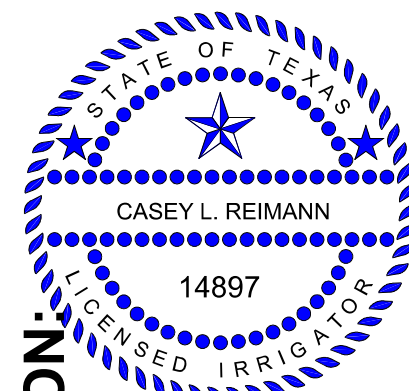




SHEET DESCRIPTION:
IRRIGATION DESIGN

casey Reimann
07/16/2020

PROJECT:
SUGAR LAND PARK

REVISIONS:
None

DATE:
07/16/2020

JOB NUMBER:
D1-07/16/2020

DRAWN BY:
CASEY REIMANN

CHECKED BY:
CLR

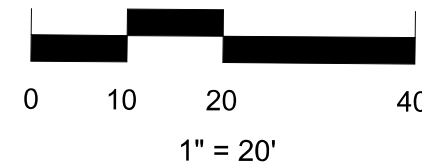
SCALE:
1" = 20'

SHEET:
LI.00

Irrigation		Quantity	Symbol	Description	Part Number	Pressure	Flow	Radius
Sprinklers								
50	▼	1		Hunter MP Side Sprig - Reduced - PROS-06-PRS40-CV	MPSrip	30 psi	0.27 gpm	24 x 4 ft
6	●	2		Hunter MP1000 180" - PROS-06-PRS40-CV	MP1000 90-210"	30 psi	0.32 gpm	12 ft
14	●	2		Hunter MP2000 180" - PROS-06-PRS40-CV	MP2000 90-210"	40 psi	0.74 gpm	19 ft
4	●	2		Hunter MP2000 360" - PROS-06-PRS40-CV	MP2000 360"	40 psi	1.47 gpm	19 ft
1	●	2		Hunter MP3000 90" - PROS-06-PRS40-CV	MP3000 90-210"	40 psi	0.4 gpm	20 ft
3	●	2		Hunter MP3000 180" - PROS-06-PRS40-CV	MP3000 90-210"	40 psi	1.82 gpm	30 ft
6	●	2		Hunter MP3000 270" - PROS-04-PRS40-CV	MP3000 210-270"	40 psi	2.73 gpm	30 ft
12	●	2		Hunter MP3000 360" - PROS-06-PRS40-CV	MP3000 360"	40 psi	3.64 gpm	30 ft
2	●	2		Hunter MP3000 90" - PROS-06-PRS40-CV	MP3000 90-210"	40 psi	0.86 gpm	30 ft
12	●	2		Hunter MP3500 180" - PROS-06-PRS40-CV	MP3500 90-210"	40 psi	2.86 gpm	35 ft
6	●	2		Hunter MP3500 270" - PROS-06-PRS40-CV	MP3500 90-210"	40 psi	1.28 gpm	35 ft
6	●	2		Hunter MP3500 360" - PROS-06-PRS40-CV	MP3500 90-210"	40 psi	3.64 gpm	30 ft
12	●	2		Hunter MP800SR 180" - PROS-06-PRS40-CV	MP800SR 90-210"	40 psi	0.42 gpm	10 ft
12	●	2		Hunter MP800SR 90" - PROS-06-PRS40-CV	MP800SR 90-210"	40 psi	0.23 gpm	10 ft
6	●	2		Hunter PGP-1.5 Blue - PGP-ADJ	1.5	45 psi	1.5 gpm	31 ft
22	●	2		Hunter PGP-3.0 Blue - PGP-ADJ	3	45 psi	3 gpm	38 ft
39	●	2		Hunter PGP-6.0 Blue - PGP-360	6	45 psi	6 gpm	43 ft
Meters/Pumps								
1	■	1		2 inch meter				
Backflow Devices								
1	■	1		Febco 860 - 2"	860 - 2"			
Control Valves								
1	■	1		Rain Bird 100-PGA Angle	100-PGA			
29	■	1		Rain Bird 150-PGA Globe	150-PGA			
3	■	1		Rain Bird 200-PGA Globe	200-PGA Globe			
Irrigation Accessories								
1	■	1		Hunter MINI-CLIK	MINI-CLIK			
1	■	1		Nibco 2" isolation valve				
Lateral Line Pipe								
1720 ft	■	1		Class 200 3/4"				
473 ft	■	1		Class 200 1"				
610 ft	■	1		Class 200 1 1/4"				
451 ft	■	1		Class 200 1 1/2"				
1729 ft	■	1		Schedule 40 2"				
1209 ft	■	1		Class 200 2"				
Mainline Pipe								
855 ft	■	1		Schedule 40 2"	0			

Zone #	Total Area	Total Flow	Precip Rate
1	3987.15 Sq/Ft	19.49 gpm	0.47 in/hr
2	3438.41 Sq/Ft	19.69 gpm	0.55 in/hr
3	8196.29 Sq/Ft	29.83 gpm	0.35 in/hr
4	7482.82 Sq/Ft	29.42 gpm	0.38 in/hr
5	7521.32 Sq/Ft	25.57 gpm	0.33 in/hr
6	7049.17 Sq/Ft	24.42 gpm	0.33 in/hr
7	1465.89 Sq/Ft	9.86 gpm	0.65 in/hr
8	3479.43 Sq/Ft	9 gpm	0.25 in/hr
9	6991.4 Sq/Ft	18 gpm	0.25 in/hr
10	7360.3 Sq/Ft	15 gpm	0.2 in/hr
11	8315.06 Sq/Ft	18 gpm	0.21 in/hr
12	3667.2 Sq/Ft	9 gpm	0.24 in/hr
13	6610.17 Sq/Ft	12 gpm	0.17 in/hr
14	6137.51 Sq/Ft	12 gpm	0.19 in/hr
15	6390.8 Sq/Ft	12 gpm	0.18 in/hr
16	6877.23 Sq/Ft	15 gpm	0.21 in/hr
17	6148.37 Sq/Ft	12 gpm	0.19 in/hr
18	6188.7 Sq/Ft	12 gpm	0.19 in/hr
19	6197.48 Sq/Ft	12 gpm	0.19 in/hr
20	6347.26 Sq/Ft	12 gpm	0.18 in/hr
21	6951.96 Sq/Ft	12 gpm	0.17 in/hr
22	6785.16 Sq/Ft	15 gpm	0.21 in/hr
23	4872.39 Sq/Ft	12 gpm	0.24 in/hr
24	4413.7 Sq/Ft	9 gpm	0.2 in/hr
25	6091.42 Sq/Ft	12 gpm	0.19 in/hr
26	6226.28 Sq/Ft	12 gpm	0.19 in/hr
27	6232.2 Sq/Ft	12 gpm	0.19 in/hr
28	6192.79 Sq/Ft	12 gpm	0.19 in/hr
29	6175.23 Sq/Ft	12 gpm	0.19 in/hr
30	5005.07 Sq/Ft	9 gpm	0.17 in/hr
31	6171.78 Sq/Ft	12 gpm	0.19 in/hr
32	6579.69 Sq/Ft	12 gpm	0.18 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.



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	5 ft
Velocity	5 fps
Recommendations	
Maximum Recommended Flow	52.29 gpm
Available Working Pressure	56.49 psi

Run Set: 1 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.015 psi Meter Loss: 0.423 psi Mainline Components Backflow Loss: 11.048 psi Master Valve Loss: 0.543 psi Filter Loss: 0 psi Zone 1 @ 18.1 gpm Mainline Loss: 0.05 psi Valve Loss: 1.146 psi Lateral Loss: 0.396 psi Fittings Loss: 0.09 psi Elevation: 0 psi Sprinkler Requirement: 40 psi Total Design Pressure: 53.626 psi Residual Pressure: 11.374 psi	Run Set: 2 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.016 psi Meter Loss: 0.439 psi Mainline Components Backflow Loss: 11.048 psi Master Valve Loss: 0.559 psi Filter Loss: 0 psi Zone 2 @ 18.62 gpm Mainline Loss: 0.07 psi Valve Loss: 1.179 psi Lateral Loss: 0.391 psi Fittings Loss: 0.122 psi Elevation: 0 psi Sprinkler Requirement: 40 psi Total Design Pressure: 53.942 psi Residual Pressure: 11.058 psi	Run Set: 3 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.037 psi Meter Loss: 0.769 psi Mainline Components Backflow Loss: 11.944 psi Master Valve Loss: 0.879 psi Filter Loss: 0 psi Zone 3 @ 23.3 gpm Mainline Loss: 0.51 psi Valve Loss: 1.856 psi Lateral Loss: 0.106 psi Fittings Loss: 0.123 psi Elevation: 0 psi Sprinkler Requirement: 40 psi Total Design Pressure: 55.552 psi Residual Pressure: 7.778 psi	Run Set: 4 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.037 psi Meter Loss: 0.773 psi Mainline Components Backflow Loss: 11.954 psi Master Valve Loss: 0.883 psi Filter Loss: 0 psi Zone 4 @ 29.42 gpm Mainline Loss: 0.71 psi Valve Loss: 1.863 psi Lateral Loss: 0.309 psi Fittings Loss: 0.342 psi Elevation: 0 psi Sprinkler Requirement: 40 psi Total Design Pressure: 55.552 psi Residual Pressure: 9.448 psi	Run Set: 5 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.029 psi Meter Loss: 0.653 psi Mainline Components Backflow Loss: 11.646 psi Master Valve Loss: 0.767 psi Filter Loss: 0 psi Zone 5 @ 25.57 gpm Mainline Loss: 0.75 psi Valve Loss: 1.619 psi Lateral Loss: 0.086 psi Fittings Loss: 0.048 psi Elevation: 0 psi Sprinkler Requirement: 40 psi Total Design Pressure: 55.552 psi Residual Pressure: 9.448 psi	Run Set: 6 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.026 psi Meter Loss: 0.613 psi Mainline Components Backflow Loss: 11.554 psi Master Valve Loss: 0.733 psi Filter Loss: 0 psi Zone 6 @ 24.42 gpm Mainline Loss: 0.2 psi Valve Loss: 1.547 psi Lateral Loss: 0.036 psi Fittings Loss: 0.037 psi Elevation: 0 psi Sprinkler Requirement: 40 psi Total Design Pressure: 56.634 psi Residual Pressure: 9.174 psi	Run Set: 7 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.005 psi Meter Loss: 0.216 psi Mainline Components Backflow Loss: 10.389 psi Master Valve Loss: 0.296 psi Filter Loss: 0 psi Zone 7 @ 9.86 gpm Mainline Loss: 0.2 psi Valve Loss: 5.486 psi Lateral Loss: 0.04 psi Fittings Loss: 0.045 psi Elevation: 0 psi Sprinkler Requirement: 40 psi Total Design Pressure: 56.634 psi Residual Pressure: 8.366 psi	Run Set: 8 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.004 psi Meter Loss: 0.042 psi Mainline Components Backflow Loss: 10.32 psi Master Valve Loss: 0.27 psi Filter Loss: 0 psi Zone 8 @ 9 gpm Mainline Loss: 0.15 psi Valve Loss: 5.486 psi Lateral Loss: 0.036 psi Fittings Loss: 0.037 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 56.238 psi Residual Pressure: 8.782 psi	Run Set: 9 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.015 psi Meter Loss: 0.042 psi Mainline Components Backflow Loss: 11.04 psi Master Valve Loss: 0.54 psi Filter Loss: 0 psi Zone 9 @ 18 gpm Mainline Loss: 0.46 psi Valve Loss: 1.14 psi Lateral Loss: 0.086 psi Fittings Loss: 0.11 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.598 psi Residual Pressure: 6.192 psi	Run Set: 10 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.011 psi Meter Loss: 0.042 psi Mainline Components Backflow Loss: 10.32 psi Master Valve Loss: 0.45 psi Filter Loss: 0 psi Zone 10 @ 15 gpm Mainline Loss: 0.46 psi Valve Loss: 0.45 psi Lateral Loss: 0.086 psi Fittings Loss: 0.11 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.598 psi Residual Pressure: 7.402 psi	Run Set: 11 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.015 psi Meter Loss: 0.042 psi Mainline Components Backflow Loss: 11.04 psi Master Valve Loss: 0.54 psi Filter Loss: 0 psi Zone 11 @ 18 gpm Mainline Loss: 0.65 psi Valve Loss: 1.14 psi Lateral Loss: 0.263 psi Fittings Loss: 0.183 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 59.072 psi Residual Pressure: 5.928 psi	Run Set: 12 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.004 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.32 psi Master Valve Loss: 0.56 psi Filter Loss: 0 psi Zone 12 @ 9 gpm Mainline Loss: 0.18 psi Valve Loss: 0.57 psi Lateral Loss: 0.012 psi Fittings Loss: 0.039 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 56.549 psi Residual Pressure: 8.451 psi	Run Set: 13 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 13 @ 12 gpm Mainline Loss: 0.37 psi Valve Loss: 0.76 psi Lateral Loss: 0.037 psi Fittings Loss: 0.116 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.535 psi Residual Pressure: 7.465 psi	Run Set: 14 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 14 @ 12 gpm Mainline Loss: 0.37 psi Valve Loss: 0.76 psi Lateral Loss: 0.037 psi Fittings Loss: 0.116 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.364 psi Residual Pressure: 7.635 psi	Run Set: 15 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 15 @ 12 gpm Mainline Loss: 0.37 psi Valve Loss: 0.76 psi Lateral Loss: 0.037 psi Fittings Loss: 0.116 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.514 psi Residual Pressure: 7.488 psi	Run Set: 16 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.011 psi Meter Loss: 0.034 psi Mainline Components Backflow Loss: 10.8 psi Master Valve Loss: 0.45 psi Filter Loss: 0 psi Zone 16 @ 15 gpm Mainline Loss: 0.57 psi Valve Loss: 0.76 psi Lateral Loss: 0.069 psi Fittings Loss: 0.128 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 58.191 psi Residual Pressure: 6.809 psi
Run Set: 17 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 17 @ 12 gpm Mainline Loss: 0.36 psi Valve Loss: 0.76 psi Lateral Loss: 0.023 psi Fittings Loss: 0.077 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.34 psi Residual Pressure: 7.66 psi	Run Set: 18 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 18 @ 12 gpm Mainline Loss: 0.36 psi Valve Loss: 0.76 psi Lateral Loss: 0.145 psi Fittings Loss: 0.101 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.461 psi Residual Pressure: 7.539 psi	Run Set: 19 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 19 @ 12 gpm Mainline Loss: 0.35 psi Valve Loss: 0.76 psi Lateral Loss: 0.074 psi Fittings Loss: 0.086 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.365 psi Residual Pressure: 7.615 psi	Run Set: 20 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 20 @ 12 gpm Mainline Loss: 0.35 psi Valve Loss: 0.76 psi Lateral Loss: 0.044 psi Fittings Loss: 0.079 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.351 psi Residual Pressure: 7.649 psi	Run Set: 21 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 21 @ 12 gpm Mainline Loss: 0.35 psi Valve Loss: 0.76 psi Lateral Loss: 0.05 psi Fittings Loss: 0.079 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.335 psi Residual Pressure: 7.647 psi	Run Set: 22 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 22 @ 15 gpm Mainline Loss: 0.54 psi Valve Loss: 0.95 psi Lateral Loss: 0.025 psi Fittings Loss: 0.076 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 58.26 psi Residual Pressure: 6.74 psi	Run Set: 23 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 23 @ 12 gpm Mainline Loss: 0.35 psi Valve Loss: 0.76 psi Lateral Loss: 0.025 psi Fittings Loss: 0.076 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.335 psi Residual Pressure: 7.665 psi	Run Set: 24 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.004 psi Meter Loss: 0.019 psi Mainline Components Backflow Loss: 10.32 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 24 @ 9 gpm Mainline Loss: 0.25 psi Valve Loss: 0.43 psi Lateral Loss: 0.03 psi Fittings Loss: 0.089 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.403 psi Residual Pressure: 8.365 psi	Run Set: 25 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 25 @ 12 gpm Mainline Loss: 0.43 psi Valve Loss: 0.76 psi Lateral Loss: 0.013 psi Fittings Loss: 0.089 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.403 psi Residual Pressure: 7.597 psi	Run Set: 26 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 26 @ 12 gpm Mainline Loss: 0.44 psi Valve Loss: 0.76 psi Lateral Loss: 0.036 psi Fittings Loss: 0.095 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.432 psi Residual Pressure: 7.598 psi	Run Set: 27 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 27 @ 12 gpm Mainline Loss: 0.44 psi Valve Loss: 0.76 psi Lateral Loss: 0.085 psi Fittings Loss: 0.106 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.472 psi Residual Pressure: 7.515 psi	Run Set: 28 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 28 @ 12 gpm Mainline Loss: 0.45 psi Valve Loss: 0.76 psi Lateral Loss: 0.085 psi Fittings Loss: 0.113 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 56.702 psi Residual Pressure: 7.428 psi	Run Set: 29 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 29 @ 12 gpm Mainline Loss: 0.46 psi Valve Loss: 0.76 psi Lateral Loss: 0.098 psi Fittings Loss: 0.112 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.415 psi Residual Pressure: 7.428 psi	Run Set: 30 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 30 @ 9 gpm Mainline Loss: 0.46 psi Valve Loss: 0.57 psi Lateral Loss: 0.076 psi Fittings Loss: 0.095 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.522 psi Residual Pressure: 7.478 psi	Run Set: 31 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 31 @ 12 gpm Mainline Loss: 0.47 psi Valve Loss: 0.76 psi Lateral Loss: 0.095 psi Fittings Loss: 0.128 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.458 psi Residual Pressure: 7.478 psi	Run Set: 32 Water Source #1 Type: Meter Static Pressure: 65 psi Service Line: 0.007 psi Meter Loss: 0.027 psi Mainline Components Backflow Loss: 10.56 psi Master Valve Loss: 0.36 psi Filter Loss: 0 psi Zone 32 @ 12 gpm Mainline Loss: 0.47 psi Valve Loss: 0.76 psi Lateral Loss: 0.095 psi Fittings Loss: 0.099 psi Elevation: 0 psi Sprinkler Requirement: 45 psi Total Design Pressure: 57.458 psi Residual Pressure: 7.478 psi