

Irrigation

Quantity	Symbol	Description	Part Number	Pressure	Flow	Radius
Sprinklers						
12	●	Rain Bird 10H - 1804	10H	30 psi	0.79 gpm	10 ft
9	●	Rain Bird 10Q - 1804	10Q	30 psi	0.39 gpm	10 ft
3	●	Rain Bird 10-VAN 180 - 1804	10-VAN	30 psi	1.45 gpm	10 ft
5	●	Rain Bird 15H - 1804	15H	30 psi	1.85 gpm	15 ft
13	●	Rain Bird 15H - 1812	15H	30 psi	1.85 gpm	15 ft
7	●	Rain Bird 15Q - 1804	15Q	30 psi	0.92 gpm	15 ft
7	●	Rain Bird 15Q - 1812	15Q	30 psi	0.92 gpm	15 ft
3	●	Rain Bird 15-VAN 180 - 1804	15-VAN	30 psi	1.85 gpm	15 ft
6	●	Rain Bird 15-VAN 90 - 1804	15-VAN	30 psi	0.92 gpm	15 ft
8	●	Rain Bird 5000 Series 1.5 - 5004-PL-PC	1.5	45 psi	1.54 gpm	35 ft
1	●	Rain Bird 5000 Series 3.0 - 5004-PL-PC	3.0	45 psi	3.09 gpm	40 ft
12	●	Rain Bird 6-VAN 180 - 1812	6-VAN	30 psi	0.6 gpm	6 ft
13	●	Rain Bird 6-VAN 90 - 1804	6-VAN	30 psi	0.37 gpm	6 ft
29	●	Rain Bird 6-VAN 90 - 1812	6-VAN	30 psi	0.37 gpm	6 ft
3	●	Rain Bird 8F - 1812	8F	30 psi	1.05 gpm	8 ft
11	●	Rain Bird 8H - 1804	8H	30 psi	0.52 gpm	8 ft
65	●	Rain Bird 8H - 1812	8H	30 psi	0.52 gpm	8 ft
5	●	Rain Bird 8Q - 1812	8Q	30 psi	0.26 gpm	8 ft
5	●	Rain Bird 8-VAN 180 - 1812	8-VAN	30 psi	1.19 gpm	8 ft
4	●	Rain Bird 8-VAN 90 - 1804	8-VAN	30 psi	0.72 gpm	8 ft

Meters/Pumps		
1	■	1 inch meter
Backflow Devices		
1	■	Febco 765 - 1"
Control Valves		
14	■	Rain Bird 100-DV-SS
Irrigation Accessories		
1	■	Hunter MINI-CLIK
1	■	Nibco 1" isolation valve
1	■	Rain Bird ESP-4Mei (16 Stations)
Lateral Line Pipe		
2441 ft	■	Class 200 1"
Mainline Pipe		
8 ft	■	Schedule 40 1"
391 ft	■	Class 200 1"

Sprinkler Zone Data

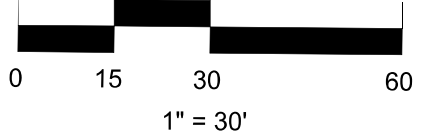
Zone #	Total Area	Total Flow	Precip Rate
1	1038.49 Sq/Ft	12.93 gpm	1.2 in/hr
2	1778.87 Sq/Ft	9.25 gpm	0.5 in/hr
3	1243.32 Sq/Ft	12.58 gpm	0.97 in/hr
4	1240.27 Sq/Ft	11.04 gpm	0.86 in/hr
5	1301.63 Sq/Ft	14.64 gpm	1.08 in/hr
6	1285.24 Sq/Ft	6.16 gpm	0.46 in/hr
7	1378.55 Sq/Ft	16.61 gpm	1.16 in/hr
8	1106.36 Sq/Ft	15.69 gpm	1.37 in/hr
9	1228.24 Sq/Ft	16.32 gpm	1.28 in/hr
10	922.75 Sq/Ft	15.36 gpm	1.6 in/hr
11	492.32 Sq/Ft	7.19 gpm	1.41 in/hr
12	459.37 Sq/Ft	4.68 gpm	0.98 in/hr
13	762.86 Sq/Ft	9.23 gpm	1.17 in/hr
14	1102.71 Sq/Ft	13.86 gpm	1.21 in/hr

Water Source #1	
Meter Size	1 inch meter
Static Pressure	80 psi
Elevation Change	0 ft

Service Line Information	
Pipe Category	Poly 160
Pipe Size	Poly 160 1 1/4"
Length	15 ft
Velocity	5 fps

Recommendations	
Maximum Recommended Flow	23.31 gpm
Available Working Pressure	68.48 psi

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 13087, Austin, Texas 78711-3087. TCEQ's website is: www.tceq.state.tx.us. Backflow preventer will need to be tested yearly.



SHEET DESCRIPTION:
IRRIGATION DESIGN
Casey Reimann
03/04/2021

PROJECT:
1507 CARTER CREEK PKWY
BRYAN, TX

REVISIONS:
None

DATE:
03/04/2021

JOB NUMBER:
D1-03/04/2021

DRAWN BY:
CASEY REIMANN

CHECKED BY:
CLR

SCALE:
1" = 30'

SHEET:
1 of 1