



IRRIGATION SCHEDULE

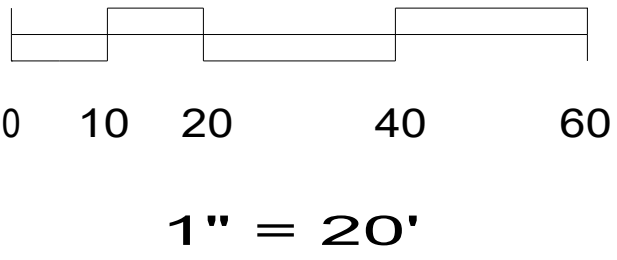
SYMBOL	MANUFACTURER/MODEL	QTY	PSI	DETAIL
	Rain Bird 1804 15 Strip Series	9	30	
	Rain Bird 1804 ADJ	58	30	
	Rain Bird XCZLF-100-PRF 1"	2		DETAIL
	Area to Receive Dripline	398.2 l.f.		
	Rain Bird XFD-09-18			
SYMBOL	MANUFACTURER/MODEL	QTY		DETAIL
	Rain Bird PGA Globe 1"	4		
	Febco 850 1"	1		
	Rain Bird ESP4ME3 with (1) ESP-SM3	1		
	Rain Bird WR2-RFC	1		
	Blow Out	1		
	Point of Connection 1"	1		
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	791.8 l.f.		
	Irrigation Mainline: PVC Class 200 SDR 21	15.0 l.f.		
	Irrigation Mainline: PVC Class 200 SDR 21 1"	435.8 l.f.		
	Pipe Sleeve: PVC Class 200 SDR 21	155.7 l.f.		
	Valve Callout			
	Valve Number			
	Valve Flow			
	Valve Size			

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Rain Bird PGA Globe	1"	Turf Spray	15.36	122.7	36.75	47.59	2.0 in/h
2	Rain Bird XCZLF-100-PRF	1"	Area for Dripline	2.46	98.8	44.85	49.95	0.65 in/h
3	Rain Bird PGA Globe	1"	Turf Spray	15.44	70.9	36.41	45.63	1.73 in/h
4	Rain Bird PGA Globe	1"	Turf Spray	14.61	22.5	36.33	43.91	2.34 in/h
5	Rain Bird PGA Globe	1"	Turf Spray	11.72	251.9	36.42	46.1	2.59 in/h
6	Rain Bird XCZLF-100-PRF	1"	Area for Dripline	1.53	369.9	44.57	49.73	0.64 in/h
	Common Wire				450.8			

CRITICAL ANALYSIS

Generated:	2021-12-08 11:59
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Point of Connection Size:	1"
Flow Available:	19.24 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	80.00 PSI
Pressure Available:	80.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	15.44 GPM
Flow Available at POC:	19.24 GPM
Residual Flow Available:	3.8 GPM
Critical Station:	2
Design Pressure:	40 PSI
Friction Loss:	0.01 PSI
Fittings Loss:	0 PSI
Elevation Loss:	0 PSI
Loss through Valve:	4.84 PSI
Pressure Req. at Critical Station:	44.85 PSI
Loss for Fittings:	0.01 PSI
Loss for Main Line:	0.09 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	5 PSI
Critical Station Pressure at POC:	49.95 PSI
Pressure Available:	80 PSI
Residual Pressure Available:	30.05 PSI



TOWER PARK COMM-LOT 7
NORTH BLDG
420 SW LONGVIEW ROAD
LEE'S SUMMIT, MISSOURI

DATE
12-08-2021
REVISED

SHEET
IR-1