

IRRIGATION SCHEDULE

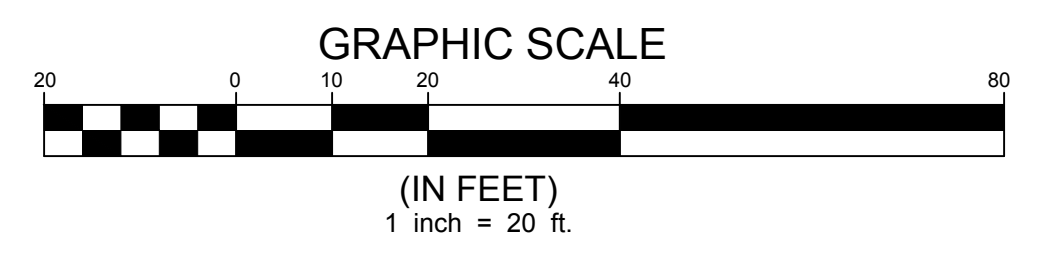
SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PROS-06-NSI 8' radius	3
	Hunter PROS-06-NSI 10' radius	2
	Hunter PROS-06-NSI 12' radius	20
	Hunter PROS-06-NSI 15' radius	3
SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter I-25-04	43
	Hunter PGP-ADJ-B	4
	Hunter PGP-ADJ-B	21
	Hunter PGP-ADJ-B	1
SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PGV-101G 1"	1
	Hunter PGV-151 Globe 1-1/2"	5
	Hunter PGV-201 Globe 2"	4
	Isolation Gate Valve Mainline Size	3
	Hunter Pro-C Controller	1
	Hunter RAIN-CLIK Rain Sensor	1
	Self-Cleaning Screen GTL125 - 125gpm Gator-tuff Lakescreen, self-cleaning, 3"outlet w/stand	1
	5 HP Centrifugal Pump	1
	Irrigation Lateral Line: PVC Class 160 SDR 26 1 1/2"	2,163 l.f.
	Irrigation Lateral Line: PVC Class 160 SDR 26 2"	717.7 l.f.
	Irrigation Lateral Line: PVC Class 160 SDR 26 2 1/2"	143.9 l.f.
	Irrigation Lateral Line: PVC Class 160 SDR 26 2 1/2"	23.6 l.f.
	Irrigation Mainline: PVC Class 160 SDR 26 2 1/2"	712.1 l.f.
	Pipe Sleeve: PVC Schedule 40 2"	6.2 l.f.
	Pipe Sleeve: PVC Schedule 40 3"	7.3 l.f.
	Pipe Sleeve: PVC Schedule 40 4"	38.2 l.f.

CRITICAL ANALYSIS

FLOW AVAILABLE	
Custom Max Flow:	60.00 gpm
Flow Available:	60.00 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	50.00 psi
Pressure Available:	50.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	45.00 gpm
Flow Available at POC:	60.00 gpm
Residual Flow Available:	15.00 gpm
Critical Station:	
Design Pressure:	60.00 psi
Friction Loss:	3.06 psi
Fittings Loss:	0.31 psi
Elevation Loss:	0.00 psi
Loss through Valve:	3.50 psi
Pressure Req. at Critical Station:	66.87 psi
Loss for Fittings:	0.01 psi
Loss for Main Line:	0.13 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	0.00 psi
Critical Station Pressure at POC:	67.01 psi
Pressure Available:	50.00 psi
Residual Pressure Available:	-17.01 psi

IRRIGATION NOTES

- ALL WORK IS TO BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.
- ALL UNDERGROUND ELECTRICAL CONNECTIONS ARE TO BE MADE WITH 3-M WIRE CONNECTORS, DBY.
- ALL REMOTE CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES OF APPROPRIATE SIZE.
- ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED FOR DIRECT BURY.
- ALL ROTORS AND SPRAY POP-UPS SHALL BE INSTALLED ON SWING PIPE.
- ALL QCV SHALL BE INSTALLED ON 3-ELBOW PVC SWING JOINTS.
- SYSTEM DESIGN BASED UPON 60 GPM @ 68 PSI.
- ANY CHANGES IN AVAILABILITY OF SUPPLY SHOULD BE NOTED AND MODIFICATIONS TO THE DESIGN SHOULD BE MADE.
- CONTRACTOR TO VERIFY WATER PRESSURE AND AVAILABILITY PRIOR TO INSTALLATION.
- THE LOCATION OF ALL IRRIGATION IS DIAGRAMMATIC AND SUBJECT TO FIELD VERIFICATION.
- ANY IRRIGATION PIPING SHOWN OUTSIDE OF CURBS FOR CLARITY ONLY.
- 120V. TO CONTROLLER AND COPPER STUB, BY OTHER THAN IRRIGATION CONTRACTOR.
- A BOOSTER PUMP IS REQUIRED IF SYSTEM DOES NOT MEET THE DESIGN PRESSURE.
- THE CONTRACTOR IS RESPONSIBLE FOR THEIR OWN MATERIAL TAKE OFF.
- USE KFLEX FOR ALL ROTORS AND SPRAYS.



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Date:	Issued for:
06-25-2017	Revision
06-27-2017	Revision
07-19-2017	Revision
07-21-2017	Revision
08-01-2017	Revision

Bid Design
Designed by: Angie McCarly

Scale: 1" = 20'-0"
Project Number: 131649
Sheet Number: IR-1