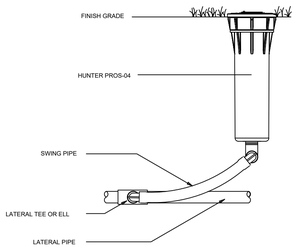
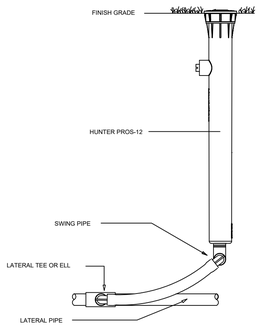


POP-UP SPRAY SPRINKLER



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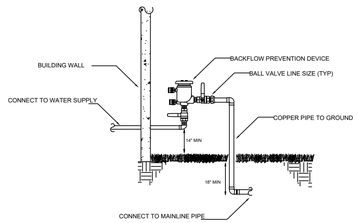
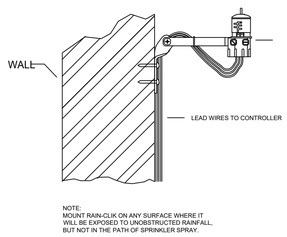
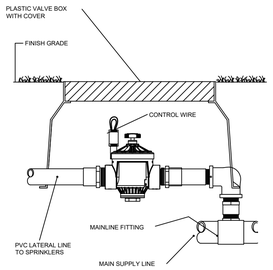


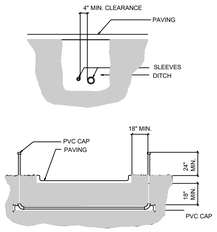
PRESSURE VACUUM BREAKER



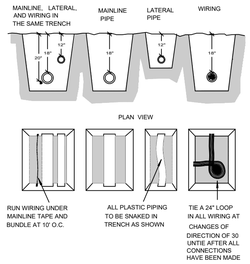
HUNTER RAIN-CLIK RAIN SENSOR



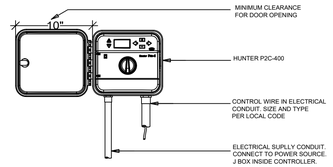
REMOTE CONTROL VALVE



IRRIGATION SLEEVING



PIPE AND WIRE TRENCH



HUNTER PRO-C CONTROLLER

CRITICAL ANALYSIS

P.O.C. NUMBER: 01
Water Source Information:

FLOW AVAILABLE	
Water Meter Size:	1"
Flow Available	18.2 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	55 PSI
Elevation Change:	5.00 ft
Service Line Size:	1"
Length of Service Line:	20 ft
Pressure Available:	50 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	17.78 GPM
Flow Available at POC:	18.2 GPM
Residual Flow Available:	0.42 GPM
Critical Station:	17
Design Pressure:	30 PSI
Friction Loss:	3.33 PSI
Fittings Loss:	0.33 PSI
Elevation Loss:	0 PSI
Loss through Valve:	2.55 PSI
Pressure Req. at Critical Station:	36.2 PSI
Loss for Fittings:	0.56 PSI
Loss for Main Line:	5.59 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	3.98 PSI
Loss for Water Meter:	1.76 PSI
Critical Station Pressure at POC:	48.1 PSI
Pressure Available:	50 PSI
Residual Pressure Available:	1.9 PSI

IRRIGATION SPECIFICATIONS

1. IRRIGATION POINT OF CONNECTION SHALL BE CAPABLE OF DELIVERING A VARIABLE FLOW RATE OF 18 GPM AT A CONSTANT PRESSURE OF 55 PSI DOWNSTREAM OF BACKFLOW PREVENTION DEVICE.POINT OF CONNECTION SHELL BE ABLE TO MAINTAIN THE MAXIMUM FLOW RATE AND PRESSURE FOR THE DURATION OF AN IRRIGATION CYCLE. CONTRACTOR SHALL VERIFY THESE PARAMETERS PRIOR TO CONSTRUCTION, AND NOTIFY OWNER'S REPRESENTATIVE AND IRRIGATION CONSULTANT IF THEY CANNOT BE MET.

2. IF THE POINT OF CONNECTION EXCEEDS THE ABOVE PRESSURE REQUIREMENTS, A PRESSURE REGULATOR SHALL BE INSTALLED AT THE OWNER'S EXPENSE. PRESSURE REGULATOR SHALL BE SET AT THE PRESSURE RECOMMENED ABOVE.

3. AN PVB TYPE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED IN A MANNER SATISFYING LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.

4. POWER FOR THE IRRIGATION CONTROLLER, PUMP AND OTHER ELECTRICAL COMPONENTS SHALL BE PROVIDED BY OTHER. CONTRACTOR SHALL VERIFY POWER AVAILABLE MEETS THE REQUIREMENTS OF THE COMPONENT'S MANUFACTURER. IF POWER AVAILABLE IS INADEQUATE, CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

5. IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE. MINOR FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE FOR LANDSCAPING CHANGES, PLANTING BEDS OR OTHER OBSTRUCTIONS. THESE ADJUSTMENTS MAY BE MADE ONLY AFTER NOTIFYING THE OWNER'S REPRESENTATIVE.

6.SOME IRRIGATION COMPONENTS AND PIPING ARE SHOWN IN HARDSCAPE AREAS AND OUTSIDE OF PROPERTY LINES TO IMPROVE ON THE READABILITY OF THE IRRIGATION PLAN. ALL COMPONENTS AND PIPING SHALL BE INSTALLED INSIDE OF THE PROPERTY LINES AND OUTSIDE OF HARDSCAPE AREAS.

7. MAINLINE, LATERALS AND CONTROL WIRES SHALL BE INSTALLED INSIDE THE SAME TRENCH WHENEVER POSSIBLE..

8. SYSTEM TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

9. CONTROLLER SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS.

10. ALL CONTROLLER/VALVE WIRE SHALL BE #14 GAUGE. THE COMMON WIRE SHALL BE COLORED WHITE, WHILE THE STATION WIRES SHALL BE OF AT LEAST ONE COLOR OTHER THAN WHITE.

11. ALL FIELD WIRE ABOVE GRADE OR WITHIN STRUCTURE TO BE INSTALLED IN CONDUIT PER LOCAL CODE.

12. ALL UNDERGROUND SPLICES TO UTILIZE 3M DBY, OR KING WATER PROOF SPLICE KITS, DEPENDING ON NUMBER AND SIZE OF WIRES. ALL SPLICES SHALL BE MADE INSIDE A VALVE BOX.

13. DEPTH OF IRRIGATION PIPING;18" ON MAINLINE; 12" ON LATERALS.

14. SLEEVING UNDER PAVED AREAS SHALL BE INSTALLED AT A DEPTH OF 24".

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	HEADS	PIPE	DESIGN PSI	FRICTION LOSS	VALVE LOSS	PSI	PSI @ POC	PRECIP
1	Hunter PGV-101G	1"	Shrub Spray	10.93	16	152.3	30	0.2	1.84	32.0	36.8	1.41 in/h
2	Hunter PGV-101G	1"	Bubbler	9.5	19	386.8	30	0.85	1.9	32.7	37.3	1.7 in/h
3	Hunter PGV-101G	1"	Turf Spray	16.25	13	136.8	30	0.68	2.03	32.7	39.4	2.21 in/h
4	Hunter PGV-101G	1"	Shrub Spray	13.11	27	241.5	30	0.68	1.71	32.4	38.4	1.35 in/h
5	Hunter PGV-101G	1"	Turf Spray	12.6	12	144.7	30	1.36	1.74	33.1	39.0	1.45 in/h
6	Hunter PGV-101G	1"	Turf Spray	13.97	14	145.5	30	1.35	1.66	33.0	38.2	1.49 in/h
7	Hunter PGV-101G	1"	Turf Spray	11.19	9	97.0	30	0.32	1.83	32.1	36.9	1.19 in/h
8	Hunter PGV-101G	1"	Turf Spray	13.97	15	169.3	30	0.62	1.66	32.3	37.7	1.16 in/h
9	Hunter PGV-101G	1"	Shrub Spray	10.64	13	156.7	30	0.26	1.86	32.1	37.0	1.42 in/h
10	Hunter PGV-101G	1"	Turf Spray	16.78	23	200.7	30	0.47	2.21	32.7	39.3	1.42 in/h
11	Hunter PGV-101G	1"	Turf Spray	5.85	6	73.6	30	0.07	1.9	32.0	35.8	1.4 in/h
12	Hunter PGV-101G	1"	Shrub Spray	11.65	15	143.1	30	0.25	1.8	32.1	37.6	1.48 in/h
13	Hunter PGV-101G	1"	Turf Spray	16.9	13	175.7	30	0.44	2.25	32.7	41.7	1.61 in/h
14	Hunter PGV-101G	1"	Bubbler	7.5	15	519.9	30	0.74	1.9	32.6	37.5	1.7 in/h
15	Hunter PGV-101G	1"	Shrub Spray	16.9	14	203.9	30	0.51	2.25	32.8	42.7	1.46 in/h
16	Hunter PGV-101G	1"	Turf Spray	16.9	17	224.8	30	1.39	2.25	33.6	44.7	1.47 in/h
17	Hunter PGV-101G	1"	Shrub Spray	17.78	20	282.6	30	3.66	2.55	36.2	48.1	1.58 in/h

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Designed: LMB
Drawn: LMB
Date: 03-31-2025
Job No.: 24-060

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CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

1	staff comments	5/27/25

LYNN M. BENDER
FL. REG. LANDSCAPE ARCHITECT
REGISTRATION NUMBER LA6666715

REGISTERED LANDSCAPE ARCHITECT LYNN M. BENDER STATE OF FLORIDA
5/27/25
SEAL

Title:
IRRIGATION DETAILS & SPECIFICATIONS

Sheet No.
IR-2
2 of 2

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07/16/2025