

CRITICAL ANALYSIS

Generated: 2025-03-19 17:16

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



























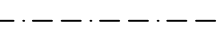







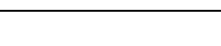
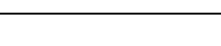
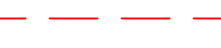
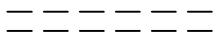
FLOW AVAILABLE  
Custom Max Flow: 22 GPM  
Flow Available: 22 GPM

PRESSURE AVAILABLE  
Static Pressure at POC: 60 PSI  
Pressure Available: 60 PSI

DESIGN ANALYSIS  
Maximum Station Flow: 20.03 GPM  
Flow Available at POC: 22 GPM  
Residual Flow Available: 1.97 GPM

Design Pressure: 30 PSI  
Friction Loss: 1.59 PSI  
Fittings Loss: 0.16 PSI  
Elevation Loss: 0 PSI  
Loss through Valve: 2.97 PSI  
Pressure Req. at Critical Station: 34.7 PSI  
Loss for Fittings: 0.22 PSI  
Loss for Main Line: 2.15 PSI  
Loss for POC to Valve Elevation: 0 PSI  
Loss for Backflow: 10.2 PSI  
Critical Station Pressure at POC: 47.3 PSI  
Pressure Available: 60 PSI  
Residual Pressure Available: 12.7 PSI

IRRIGATION SCHEDULE

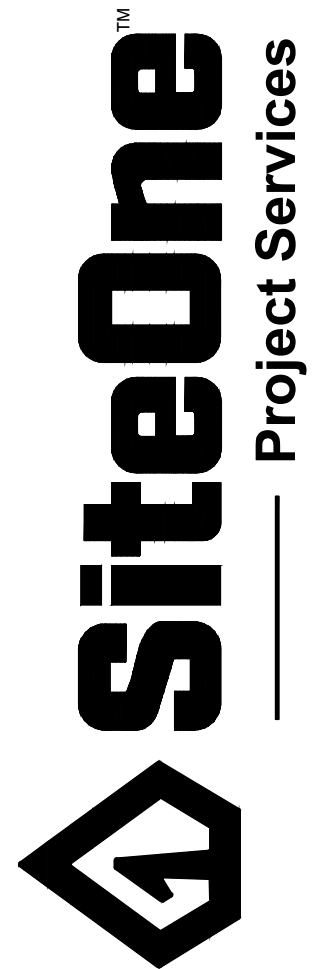
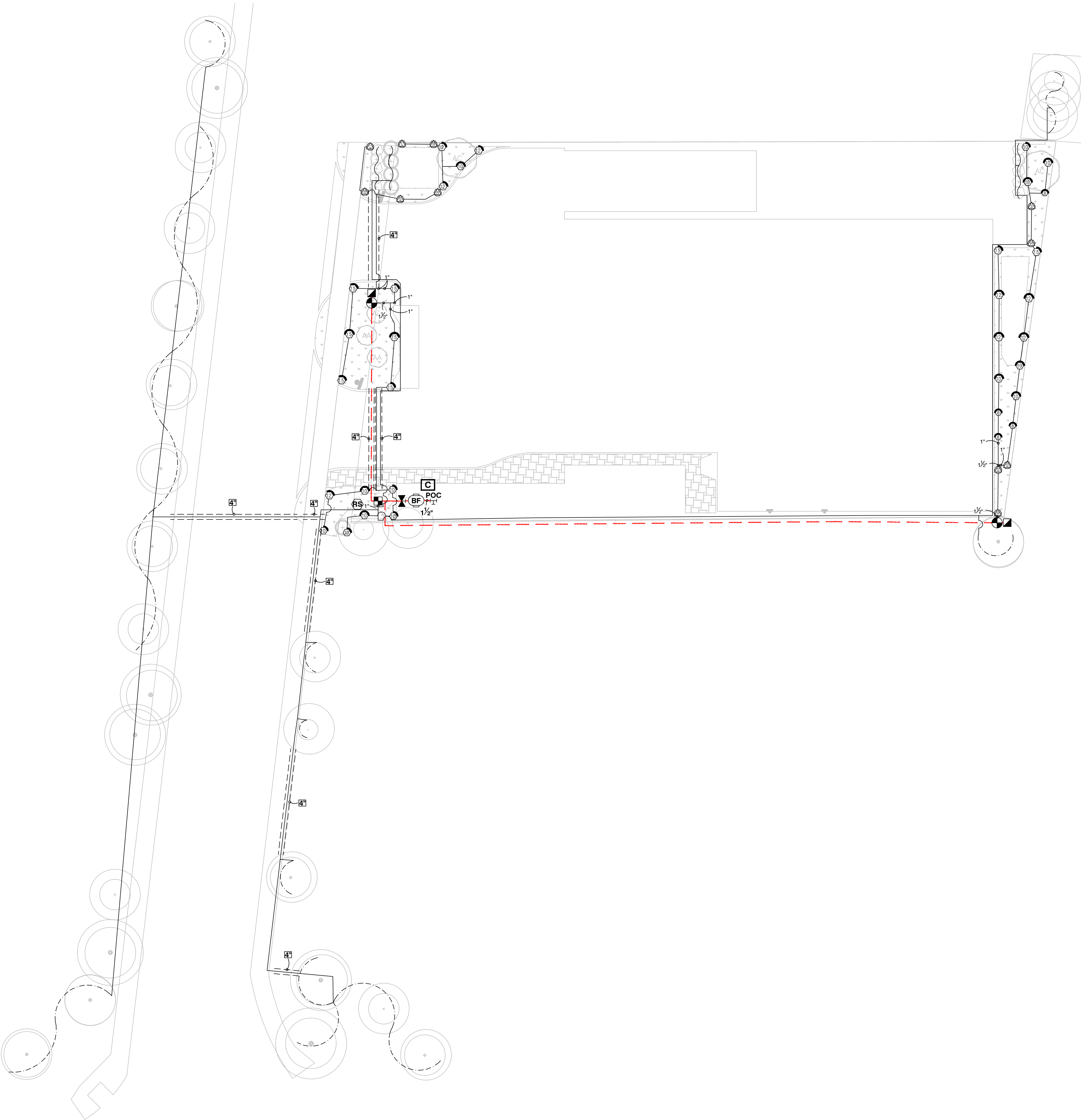
SYMBOL	MANUFACTURER/MODEL	QTY
    	Hunter PROS-04 5' strip spray	11
   	Hunter PROS-04 8' radius	4
   	Hunter PROS-04 10' radius	13
     	Hunter PROS-04 12' radius	8
     	Hunter PROS-04 15' radius	8
SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PCZ-101-40 1"	1
	Rain Bird XFDc-06-12 Serpentine Dripline	154.4 m
SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PGV-100G 1"	2
	Hunter HQ-44RC 1"	2
	Isolation Gate Valve - Mainline Sized	1
	Watts 009 1"	1
	Hunter P2C-400	1
	Hunter WR-CLIK	1
	Point of Connection 1"	1
	Irrigation Lateral Line: Polyethylene Pipe 1"	482.9 m
	Irrigation Lateral Line: Polyethylene Pipe 1 1/2"	7.7 m
	Irrigation Mainline: Polyethylene Pipe 1 1/2"	90.3 m
	Pipe Sleeve: PVC SDR 35 4"	67.3 m

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 22 GPM @ 60 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.

0m 5m 10m 20m 1:200 (metric)

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IRRIGATION PLAN  
Designed By: ROSS KEARNS

Drawing Scale: 1: 200  
Project Number: 392585  
Sheet Number: IR-1