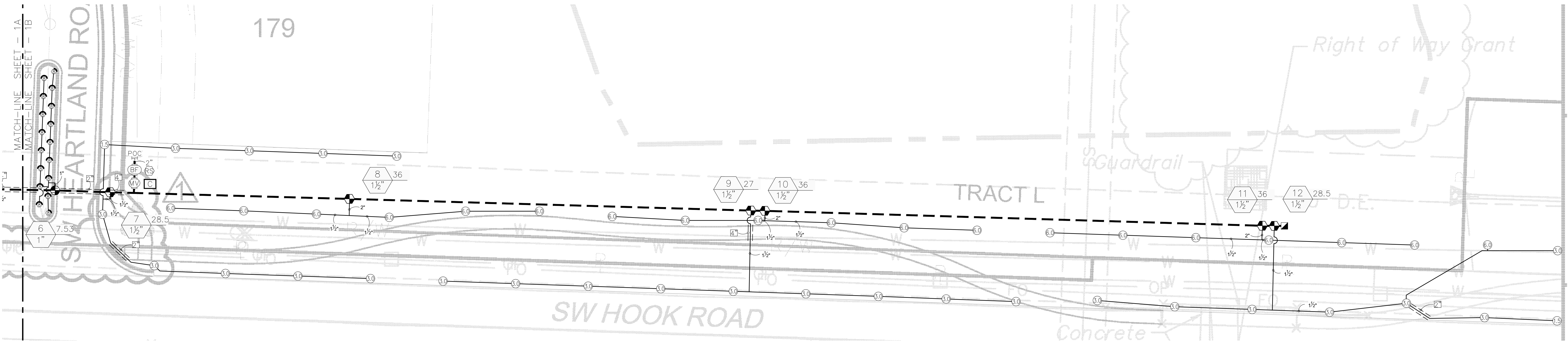
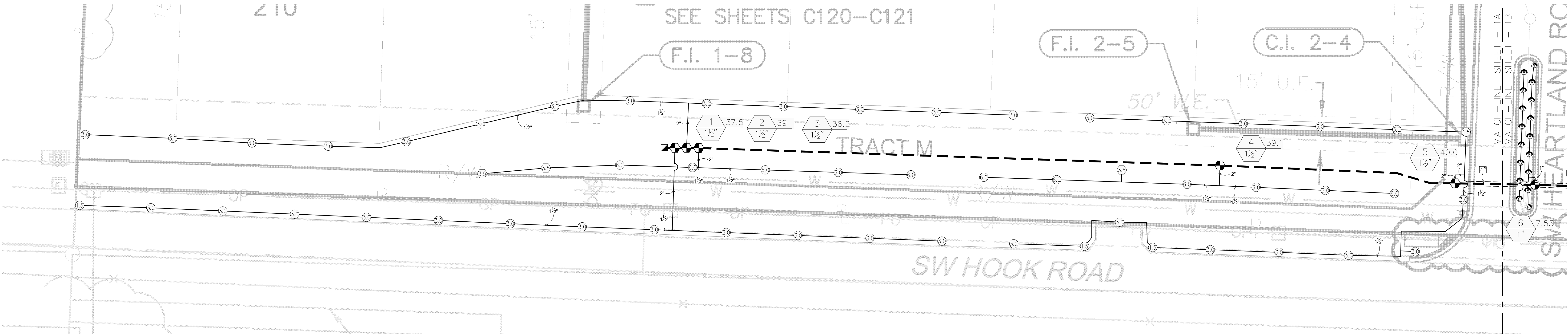
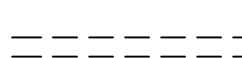
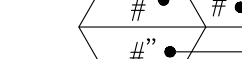


SCALE: 1" = 20' - 0"



IRRIGATION SCHEDULE

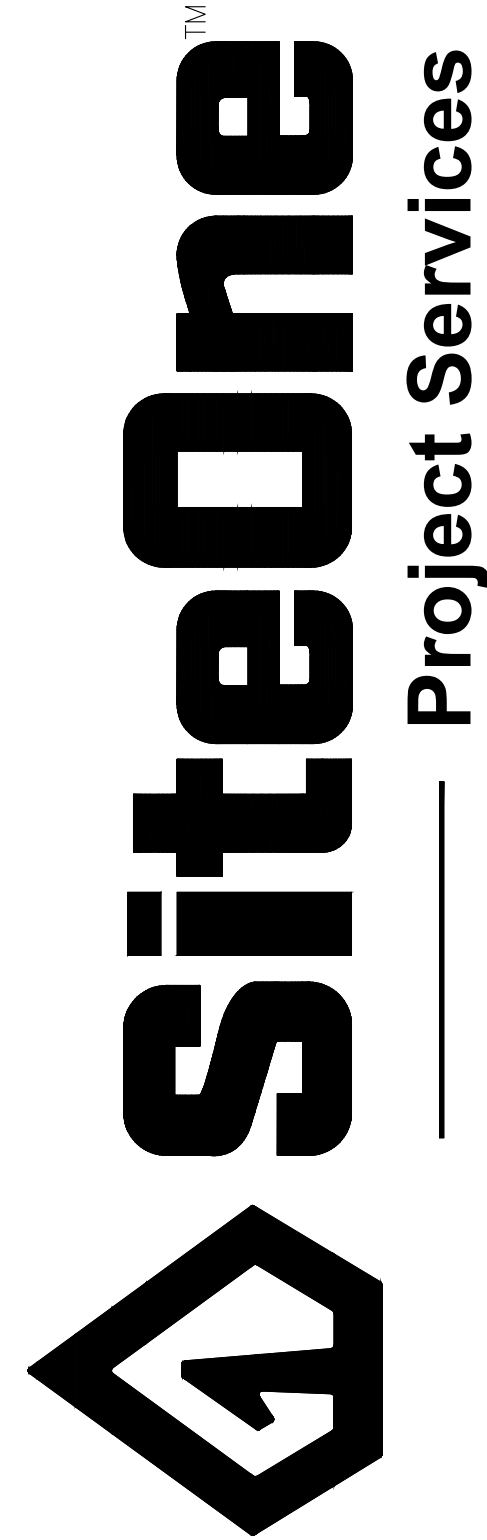
SYMBOL	MANUFACTURER/MODEL	QTY
	HUNTER PROS-04 8' RADIUS	17
SYMBOL	MANUFACTURER/MODEL	QTY
	HUNTER PGP-04 1.5	6
	HUNTER PGP-04 3.0	62
	HUNTER PGP-04 6.0	30
	HUNTER PGP-04-LA 3.5	3
SYMBOL	MANUFACTURER/MODEL	QTY
	HUNTER PGV-101G 1"	1
	HUNTER PGV-151 GLOBE 1-1/2"	11
	HUNTER HQ-SRC 1"	2
	HUNTER ICV-G 1-1/2"	1
	FEBCO 860 1-1/2"	1
	HUNTER PRO-C CONTROLLER	1
	HUNTER WR-CLIK	1
	POINT OF CONNECTION 1 1/2"	1
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1"	2,652 L.F.
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/2"	513.4 L.F.
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 2"	100.0 L.F.
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"	946.0 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40 2"	42.1 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40 4"	35.5 L.F.

CRITICAL ANALYSIS

P.O.C. NUMBER: 01	
Water Source Information:	
Flow Available	40 GPM
Custom Max Flow:	40 GPM
Flow Available	40 GPM
Pressure Available	70 PSI
Static Pressure at POC:	70 PSI
Pressure Available:	70 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	40.5 GPM
Flow Available at POC:	40 GPM
Residual Flow Available:	-0.5 GPM
Critical Station:	1
Design Pressure:	45 PSI
Friction Loss:	3.81 PSI
Fittings Loss:	0.38 PSI
Elevation Loss:	0 PSI
Loss through Valve:	3 PSI
Pressure Req. at Critical Station:	52.2 PSI
Loss for Fittings:	0.38 PSI
Loss for Main Line:	3.83 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	12 PSI
Loss for Master Valve:	1.65 PSI
Critical Station Pressure at POC:	70.1 PSI
Pressure Available:	70 PSI
Residual Pressure Available:	-0.05 PSI

IRRIGATION NOTES

- IRRIGATION SYSTEM DESIGN BASED ON 40 GPM AT 70 PSI.
- IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION (POC) ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE (GPM) AND POUNDS PER SQUARE INCH (PSI) FURNISHED BY OTHERS.
- IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
- THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5-FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
- ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL AND PLUMBING CODES.
- IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION PER LOCAL CODE.
- LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWINGS IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
- ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES, EXCEPT AS OTHERWISE INDICATED.
- INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH A MINIMUM 12" OF COVER BASED ON FINISH GRADES.
- PIPE LOCATIONS ARE DIAGRAMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY.
- THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
- THE FOLLOWING SHOULD BE NOTED REGARDING TO PIPE SIZING: IF A SECTION OF UN-SIZED LATERAL PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS THE UN-SIZED SECTION SHALL BE OF THE SAME SIZE. IF A SECTION OF UN-SIZED LATERAL PIPE IS NOT SIZED AT THE END OF A ZONE AND IS NOT BETWEEN TWO IDENTICALLY SIZED SECTIONS THE UN-SIZED SECTION(S) SHALL BE 1-INCH.
- ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTORS AND BE IN A VALVE OR SPLICE BOX.
- THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET (AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC.). SITEONE LANDSCAPE SUPPLY BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SITEONE LANDSCAPE SUPPLY IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.



5102 N Garfield Ave
Loveland, CO 80538
Phone 970.667.6605
Fax 970.667.3525
<http://projectservices.siteone.com>
800.347.4272

Project Name:
**THE RETREAT AT HOOK FARMS
2ND PLAT**
LEES SUMMIT, MO, 64082

Customer Name:

Design Date: 06/18/24

Drawn By: Ryan Blumenshine

REVISIONS

Description	Date
	
	
	
	
	

Drawing Title:

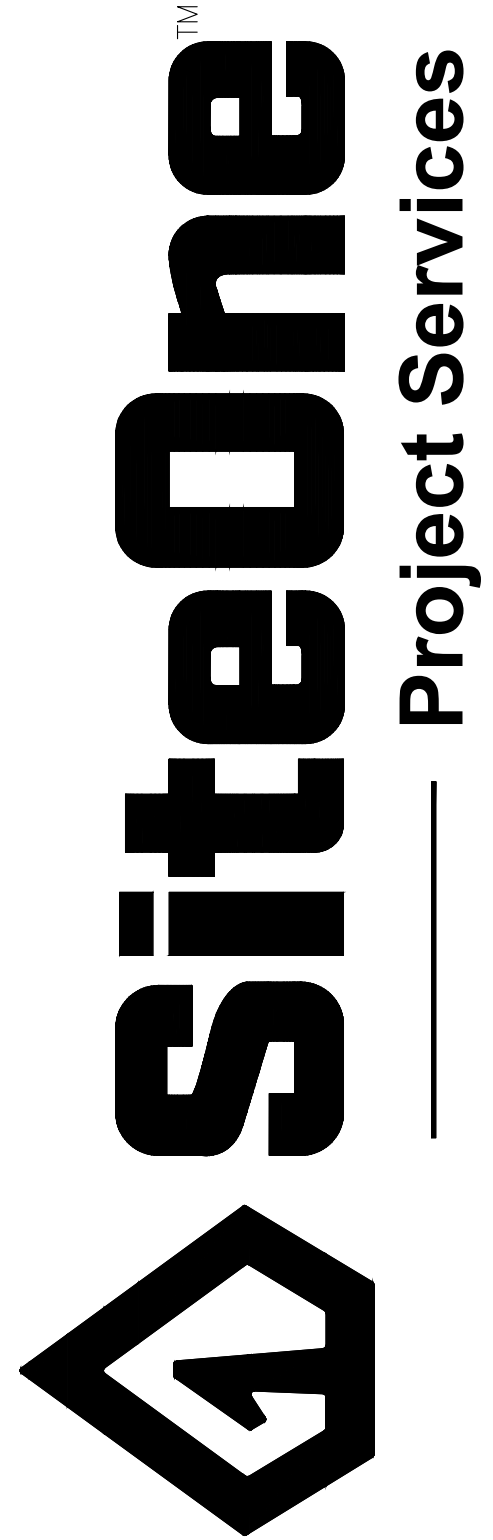
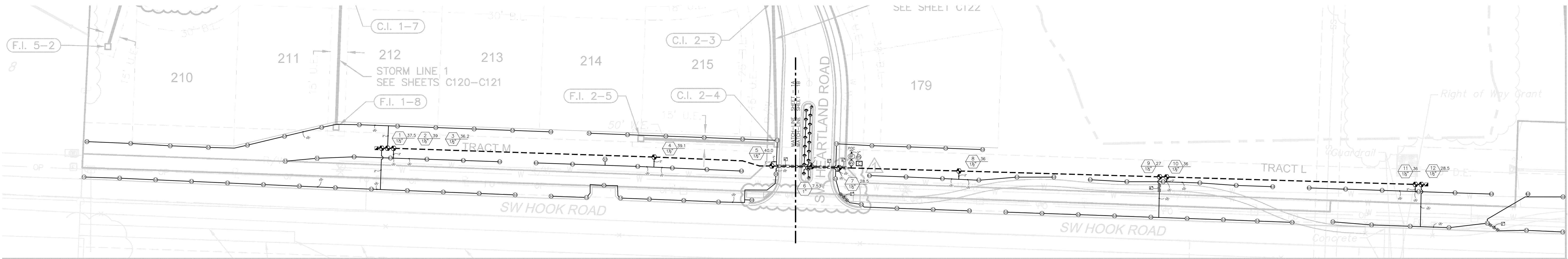
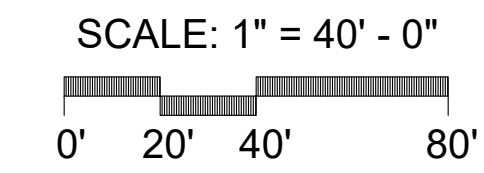
Irrigation Plan

Drawing Scale: 1" = 20'

PS Project Number: 364854

Sheet Number:

IR-1



5102 N Garfield Ave
Loveland, CO 80538
Phone 970.667.6605
Fax 970.667.3525
<http://projectservices.siteone.com>
800.347.4272

Project Name:
**THE RETREAT AT HOOK FARMS
2ND PLAT**
LEES SUMMIT, MO, 64082

Customer Name:

Design Date: 06/18/24
Drawn By: Ryan Blumenshine

REVISIONS	
Description	Date
△	
△	
△	
△	
△	
△	

Drawing Title:
Overall Irrigation Plan

Drawing Scale: 1" = 40'

PS Project Number: 364854

Sheet Number:
IR-2