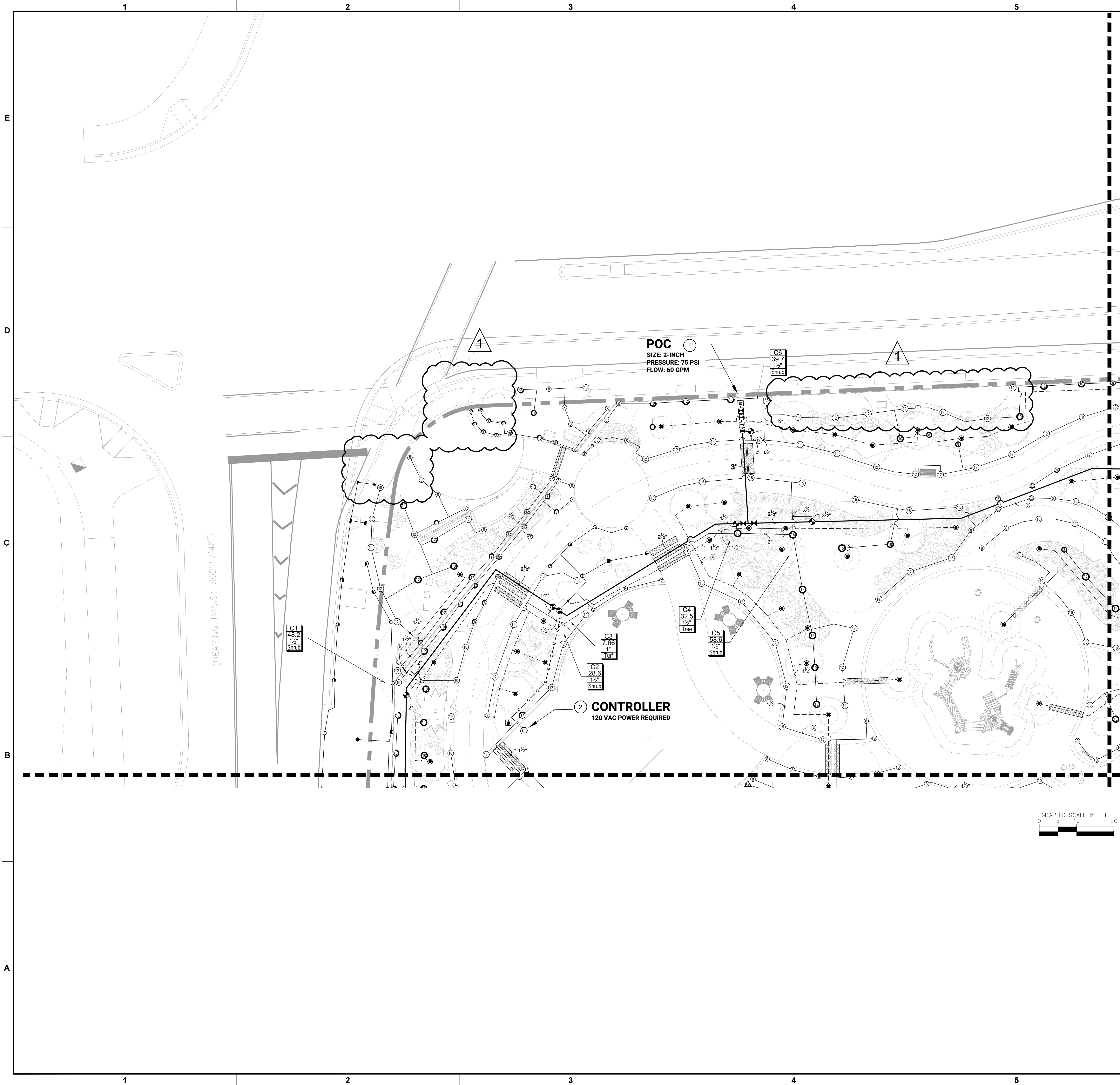




IRRIGATION LEGEND

- SLEEVES: CLASS 200 PVC
- POINT-OF-CONNECTION ASSEMBLY
- MAINLINE PIPE: CLASS 200 PVC
2-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC
1-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO TREE EMITTERS: CLASS 315 PVC
3/4-INCH SIZE UNLESS OTHERWISE INDICATED
- UNCONNECTED PIPE CROSSING
- REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS:
RAIN BIRD PEB PEB-IVM (SIZED PER PLAN)
- QUICK COUPLING VALVE ASSEMBLY: RAIN BIRD SRC
- ISOLATION GATE VALVE ASSEMBLY: MATCO 514
- FLOW SENSOR ASSEMBLY: RAIN BIRD FS200P
- BACKFLOW PREVENTION ASSEMBLY: FEBCO 825YA (2")
- WATER METER AND CURB STOP ASSEMBLY: BY OTHERS
- MASTER VALVE ASSEMBLY: RAIN BIRD PEB-IVM (2")
- HOSE BIB ASSEMBLY: SUPERIOR B400

- IRRIGATION CONTROLLER UNIT
WITH RAINBIRD WR2 RAIN SENSOR
1/4 CELL CARTRIDGE
RAINBIRD ESP-LXIVM 2 WIRE CONTROLLER
- WEATHER SENSOR: CONTACT HINES INC FOR WEATHER SENSOR SPECIFICATION
- IRRIGATION CONTROL WIRES IN CONDUIT OR WITH WARNING TAPE

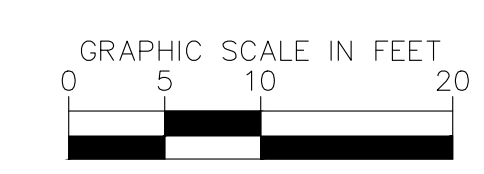
- TREE BUBBLER ASSEMBLY: TWO (V) RAIN BIRD 1401 BUBBLERS
PRESSURE: 30 PSI
FLOW (GPM): 0.25 PER BUBBLER; 0.50 PER ASSEMBLY
- POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/U-SERIES 8 NOZZLE
PRESSURE: 30 PSI
RADIUS: 8 FEET
FLOW (GPM): Q-0.26 H-0.52 F-1.05
- POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/U-SERIES 10 NOZZLE
PRESSURE: 30 PSI
RADIUS: 10 FEET
FLOW (GPM): Q-0.41 H-0.82 F-1.64
- POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/U-SERIES 12 NOZZLE
PRESSURE: 30 PSI
RADIUS: 12 FEET
FLOW (GPM): Q-0.65 H-1.30 F-2.60
- POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/U-SERIES 15 NOZZLE
PRESSURE: 30 PSI
RADIUS: 15 FEET
FLOW (GPM): Q-0.92 H-1.85 F-3.70
- POP-UP SPRAY SPRINKLER: RAIN BIRD RD1806-S-P30 W/U-SERIES NOZZLE
PRESSURE: 30 PSI
RADIUS: 4 FEET X 15 FEET
FLOW (GPM): EST-0.61 SST-1.21
- POP-UP SPRAY SPRINKLER: RAIN BIRD 1812-SAM-PRS W/ FIXED U-SERIES NOZZLE
PRESSURE: 30 PSI
RADIUS: AS SHOWN
- POP-UP SPRAY SPRINKLER: RAIN BIRD 1812-SAM-PRS W/ HE-VAN NOZZLES
PRESSURE: 30 PSI
RADIUS: AS SHOWN
- POP-UP SPRAY SPRINKLER: RAIN BIRD 1812-SAM-PRS W/ STRIP SERIES NOZZLES
PRESSURE: 30 PSI
RADIUS: AS SHOWN

POP-UP GEAR DRIVEN ROTORS: RAIN BIRD 5006-SAM-R
PRESSURE: 45 PSI

NOZZLE	RADIUS	FLOW
1.5"	35'	1.54 GPM
2.0"	37'	2.07 GPM
2.5"	37'	2.51 GPM
3.0"	39'	3.09 GPM
4.0"	42'	4.01 GPM
5.0"	43'	5.09 GPM
6.0"	44'	6.01 GPM
8.0"	44'	8.01 GPM

This item has been digitally signed and sealed by Jason M. Kruta, P.E. on the date adjacent to the seal.

Signature must be verified on any electronic copies.



PROJECT LEAD & CIVIL ENGINEERING:

KEITH

301 EAST ATLANTIC BLVD.
POMPANO BEACH, FL 33060
PH: (954) 788-3400

Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6660
Florida Landscape Architecture Business License: LC26000457

LANDSCAPE ARCHITECT:

MKSK

801 INTERNATIONAL PARKWAY
LAKE MARY, FL 32746
407.871.9607
MKSKSTUDIOS.COM

ARCHITECT:

WA

WANNEMACHER, JENSEN ARCHITECTS
815 NORTHWEST 57 AVE. SUITE 219
MIAMI, FLORIDA 33126
727-822-5568
WJARC.COM AA0002277

MECHANICAL, PLUMBING, & ELECTRICAL ENGINEERING:

SGM ENGINEERING

5301 WATERFORD DISTRICT DR.
SUITE 750
954-421-1944
SGMENGINEERING.COM CA-00006208

REVISIONS

NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	11/21/2024
	REVISED FOR BUILDING PERMIT	01/10/2025
1	REVISED PER COMMENTS	03/27/2025

ISSUE DATE: 03/27/2025

DESIGNED BY: HINES

DRAWN BY: HINES

CHECKED BY: HINES

JASON M. KRUTA
PROFESSIONAL ENGINEER
FLORIDA
Date: 2025.08.21
15:43:06

CLIENT

VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT

PINECREST PARKS AND RECREATION

SHEET TITLE

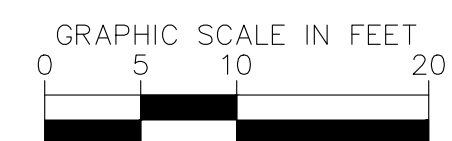
IRRIGATION PLAN

SHEET NUMBER

IR-001

KEITH PROJECT NUMBER

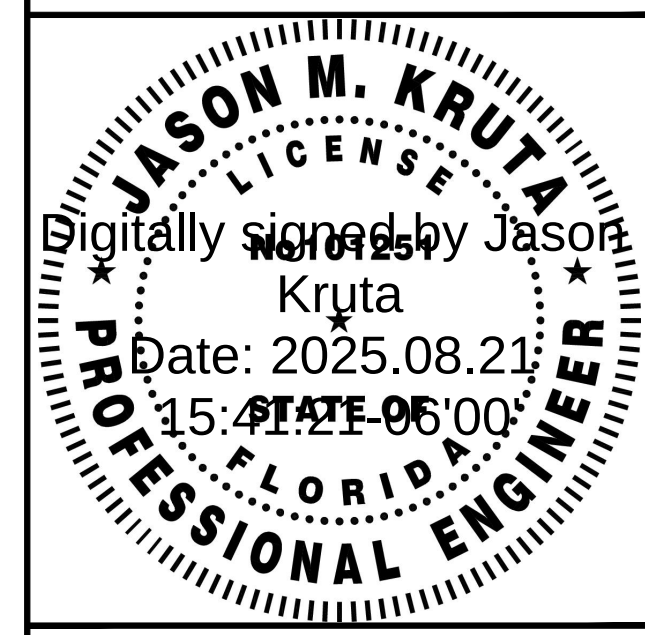
13861.00



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CLIENT
VILLAGE OF
PINECREST
PINECREST PARKS & RECREATION



PROJECT

SHEET TITLE

IRRIGATION PLAN

SHEET
NUMBER

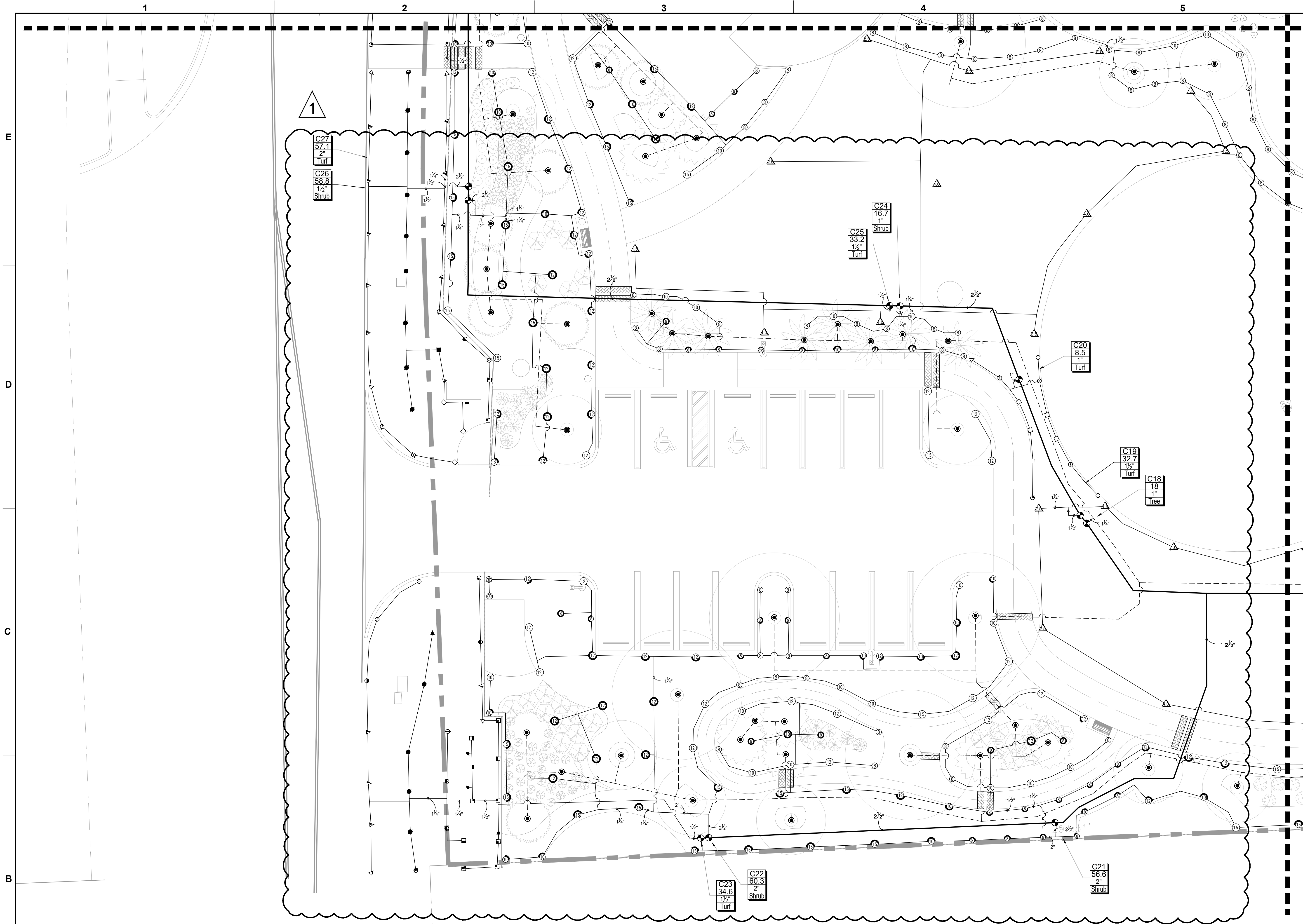
KEITH PROJECT
NUMBER 13861.00



Hines Inc

SITE WATER ENGINEERING SERVICES
323 W. DRAKE RD, SUITE 204
FORT COLLINS, COLORADO 80526
Telephone: 970.282.1800
Web: www.hinesinc.com

STATUS: CONSTRUCTION DOCUMENTS



IRRIGATION LEGEND

- SLEEVES: CLASS 200 PVC
- POINT-OF-CONNECTION ASSEMBLY
- MAINLINE PIPE: CLASS 200 PVC
2-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC
1-INCH SIZE UNLESS OTHERWISE INDICATED
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- FLOW SENSOR ASSEMBLY: RAIN BIRD FS200P
- BACKFLOW PREVENTION ASSEMBLY: FEBCO 825YA (2")
- WATER METER AND CURB STOP ASSEMBLY: BY OTHERS
- MASTER VALVE ASSEMBLY: RAIN BIRD PEB-IVM (2")
- HOSE BIB ASSEMBLY: SUPERIOR B400
- INDICATES CONTROLLER AND STATION NUMBER
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES LANDSCAPE APPLICATION
- IRRIGATION CONTROLLER UNIT
WITH RAINBIRD WR2 RAIN SENSOR
1/4 CELL CARTRIDGE
RAINBIRD ESP-LXIVM 2 WIRE CONTROLLER
- WEATHER SENSOR: CONTACT HINES INC FOR WEATHER SENSOR SPECIFICATION
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PRESSURE: 30 PSI RADIUS: AS SHOWN
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PRESSURE: 30 PSI RADIUS: AS SHOWN
- POP-UP SPRAY SPRINKLER: RAIN BIRD 1812-SAM-PRS W/ STRIP SERIES NOZZLES
PRESSURE: 30 PSI RADIUS: AS SHOWN
- POP-UP GEAR DRIVEN ROTORS: RAIN BIRD 5006-SAM-R
PRESSURE: 45 PSI
- | NOZZLE | RADIUS | FLOW |
|--------|--------|----------|
| 1.5" | 35' | 1.54 GPM |
| 2.0" | 37' | 2.07 GPM |
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| 5.0" | 43' | 5.09 GPM |
| 6.0" | 44' | 6.01 GPM |
| 8.0" | 44' | 8.01 GPM |

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PROJECT LEAD & CIVIL ENGINEERING:

KEITH

301 EAST ATLANTIC BLVD.
POMPAHO BEACH, FL 33060
PH: (954) 788-3400

Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6660
Florida Landscape Architecture Business License: LC26000457

LANDSCAPE ARCHITECT:

MKSK

801 INTERNATIONAL PARKWAY
LAKE MARY, FL 32746
407.871.9807
MKSKSTUDIOS.COM

ARCHITECT:

WA

WANNEMACHER, JENSEN ARCHITECTS
815 NORTHWEST 57 AVE. SUITE 219
MIAMI, FLORIDA 33126
727.822-5568
WJARC.COM AA0002277

MECHANICAL, PLUMBING, & ELECTRICAL ENGINEERING:

SGM ENGINEERING

5301 WATERFORD DISTRICT DR.
SUITE 750
954-421-1944
SGMENGINEERING.COM CA-00006208

REVISIONS		
NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	11/21/2024
	REVISED FOR BUILDING PERMIT	01/10/2025
1	REVISED PER COMMENTS	03/27/2025

ISSUE DATE: 03/27/2025

DESIGNED BY: HINES

DRAWN BY: HINES

CHECKED BY: HINES

JASON M. KRUTA
LICENSED PROFESSIONAL ENGINEER
Digitally signed by Jason M. Kruta
Date: 2025.08.21 15:41:50 -06'00'

CLIENT

VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT

SHEET TITLE

IRRIGATION PLAN

SHEET NUMBER

IR-003

KEITH PROJECT NUMBER

13861.00

