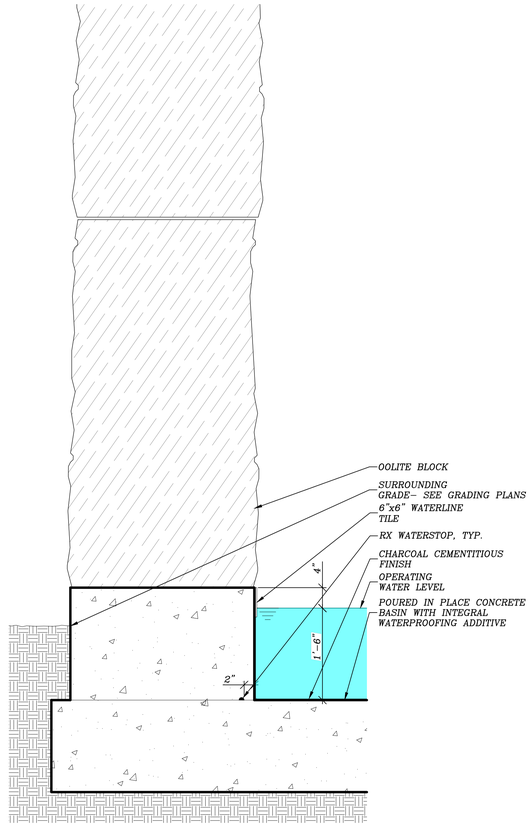
LEGEND

PJ — MATERIAL CALLOUT

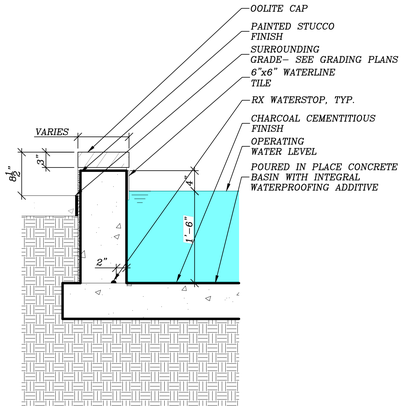
MJ — NOTE CALLOUT

PLAN VIEW LEGEND

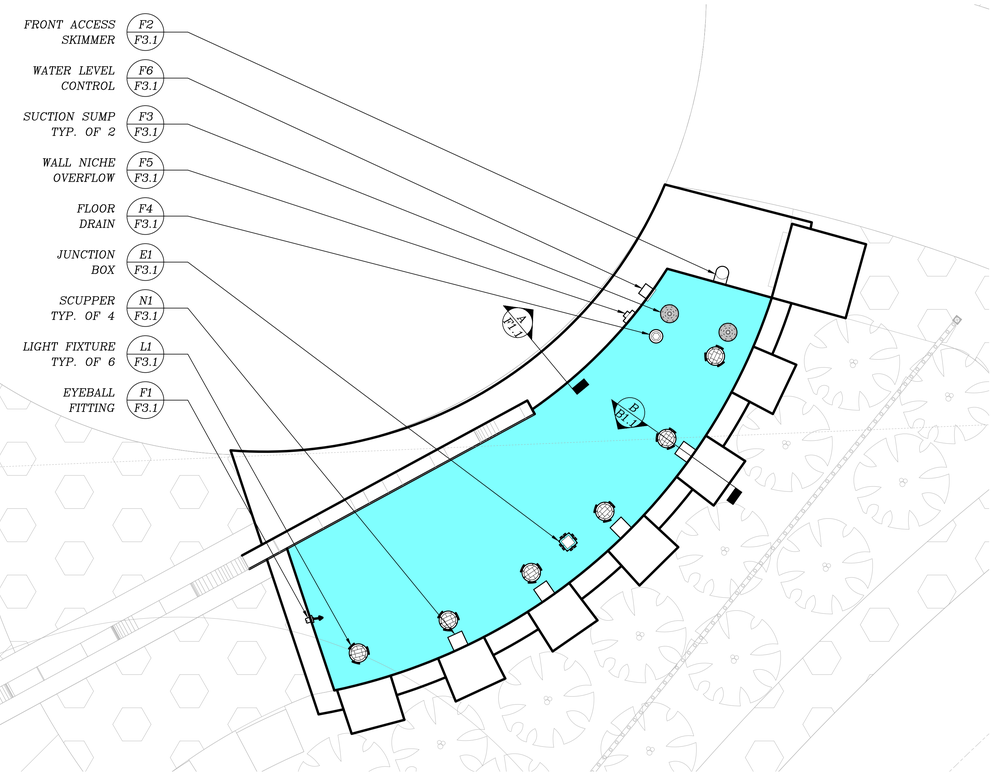
- FOUNTAIN NOZZLE
- EYEBALL FITTING
- VACUUM FITTING
- SURFACE SKIMMER
- SUCTION/BALLAST FITTING W/ANTI-VORTEX PLATE
- LARGE SUCTION SUMP W/SUCTION SCREEN
- FLOOR DRAIN
- WALL NICHE OVERFLOW
- OVERFLOW STANDPIPE/FLOOR DRAIN
- WALL NICHE LEVEL SENSOR
- CONDUIT MOUNTED LEVEL SENSOR
- LARGE FREESTANDING LIGHT FIXTURE
- SMALL FREESTANDING LIGHT FIXTURE
- SMALL JUNCTION BOX
- MEDIUM JUNCTION BOX
- LARGE JUNCTION BOX
- NICHE JUNCTION BOX
- ANEMOMETER



FOUNTAIN SECTION B
SCALE: 1"= 1'-0"



FOUNTAIN SECTION A
SCALE: 1"= 1'-0"



FOUNTAIN PLAN
SCALE: 1/2"= 1'-0"

GENERAL NOTES

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G2. Written dimensions take precedence over scaled dimensions.

G3. This fountain is not intended as an interactive water feature.

FOUNTAIN UTILITY REQUIREMENTS	
ELECTRICAL	
VOLTAGE	120/208
PHASE	SINGLE
NEUTRAL	40 AMP.
SERVICE SIZE	REQUIRED
CONNECTED LOAD	24 AMP.
FOUNTAIN DRAIN	
SIZE	1" INCH
LOCATION	BY PLUMBING
TYPE	GRAVITY
WATER	
SERVICE SIZE	3" INCH
BACKFLOW PROTECTION	EQUIPMENT ROOM FLOOR
CONNECTION POINT	IN EQUIPMENT ROOM

FOUNTAIN DATA	
SURFACE AREA	74 SQ. FT.
VOLUME	886 GALLONS
OPERATING WATER LEVEL	1 FT. 6 IN.
SHUT DOWN WATER LEVEL	1 FT. 6 IN.
FEATURE RATE	50 GPM
FILTRATION RATE	28 G.P.M.
FILTER TURNOVER	0 HR. 32 MIN.

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: LB6860
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LANDSCAPE ARCHITECT:

MKSK
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407.871.9607
MKSKSTUDIOS.COM

ARCHITECT:

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FREEPORT FOUNTAINS
1510 Kastner Place
Sanford, FL 32771
www.freeportfountains.com
(407) 330-1150

REVISIONS

NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	11/21/24

ISSUE DATE:	11/21/24
DESIGNED BY:	
DRAWN BY:	RV
CHECKED BY:	JMW

Digitally signed by Joel M Wolcott
Date: 2024.11.21 12:59:10-05'00'

Joel M. Wolcott, P.E.
Florida PE#56165

CLIENT
VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT
GARY MATZNER PARK

SHEET TITLE
FOUNTAIN PLAN AND SECTIONS

SHEET NUMBER **F1.1**

KEITH PROJECT NUMBER **13861.00**

STATUS: CONSTRUCTION DOCUMENTS

Drawing name: S:\Project Files\Pinecrest Walk\3 - Drawings\c - dwgs\3 - Working Drawings\157001.dwg

Plotted by: jwolcott On 11/21/2024 12:57 PM

LEGEND

P1 — MATERIAL CALLOUT

M1 — NOTE CALLOUT

PLAN VIEW LEGEND

- FOUNTAIN NOZZLE
- EYEBALL FITTING
- VACUUM FITTING
- SURFACE SKIMMER
- SUCTION/BALLAST FITTING W/ANTI-VORTEX PLATE
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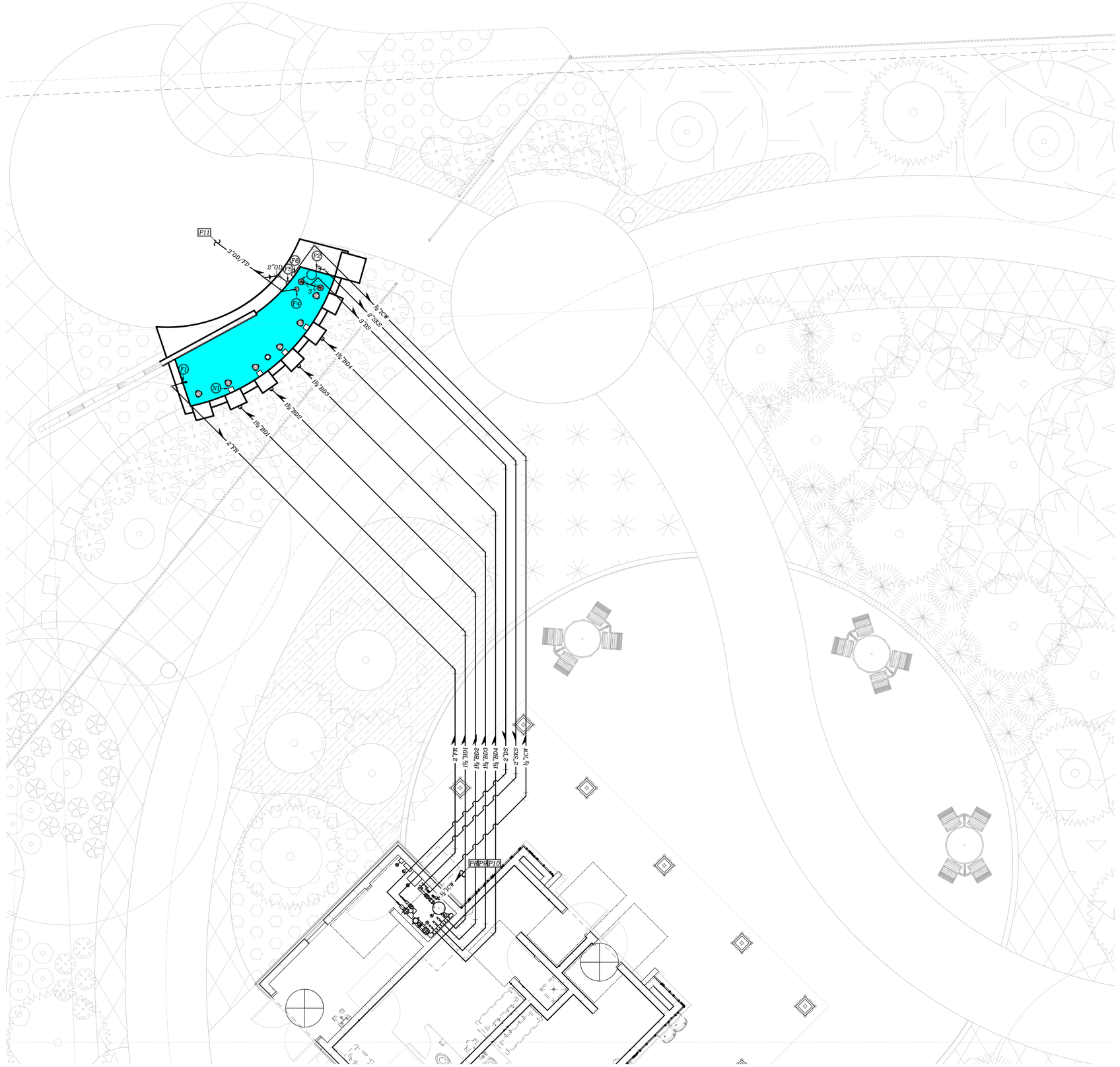
- SMALL FREESTANDING LIGHT FIXTURE
- SMALL JUNCTION BOX
- MEDIUM JUNCTION BOX
- LARGE JUNCTION BOX
- NICHE JUNCTION BOX
- ANEMOMETER

LINE LEGEND

MFS	Main Filter Suction Line
SKS	Skimmer Suction Line
FR	Filter Return Line
ICW	Incoming Cold Water
BW	Backwash Line to Waste
SPD	Sump Pump Discharge Line to Waste
DS	Display Suction Line
JD	Jet Discharge Line
BD	Ballast Discharge Line
PPD	Pool to Pool Drain Line
OD	Overflow Drain Line
PD	Pool Drain Line
EQ	Equalization Line
GR	Gravity Return Line
VNT	Exhaust Vent

PIPING LEGEND

- PIPE
- 45° ELBOW
- 90° ELBOW
- ELBOW UP
- ELBOW DOWN
- TEE
- TEE WITH BRANCH DOWN
- TEE WITH BRANCH UP
- WYE
- UNION
- PIPE SIZE REDUCER
- FLOW DIRECTION ARROW
- PIPE CROSSOVER
- CONNECTION POINT BETWEEN FOUNTAIN PIPING AND PIPING BY OTHERS
- M — INDICATES TEE AT EXACT MIDPOINT OF TEE OR FITTING



FOUNTAIN PIPING PLAN
SCALE: 1/4"= 1'-0"

N

2 0 4 8
SCALE IN FEET

GENERAL NOTES

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G2. Written dimensions take precedence over scaled dimensions.

G3. This fountain is not intended as an interactive water feature.

PIPING NOTES

P1. All piping runs are shown for clarity. Piping shall be installed with as few changes in direction as conditions allow.

P2. Suction piping shall be installed level or with an continuous slope from the pool(s) to the pumping equipment to avoid high loops.

P3. Gravity return lines shall be installed level or with an continuous slope to avoid high loops.

P4. Pressure piping shall be pressure tested to a minimum of 40 psi. for 4 hours without any discernible pressure drop. It is recommended that pipes remain under pressure during concrete pours.

P5. Gravity return and gravity drain lines shall be static tested for 24 hours.

P6. Underground pipe and fittings shall be sch. 40 Type 1 PVC. All slip PVC fittings shall be sch. 40; all threaded PVC fittings shall be sch. 80.

P7. Pipe and fittings inside the pump rooms or vaults shall be sch. 80 PVC, epoxy or cement lined cast iron or sch. 10 type 304 stainless steel.

P8. Fountain Contractor will stub a 1" incoming make-up water line five feet from the equipment room for connection to an appropriate source of potable water by others.

P9. Incoming make-up water lines shall have a pressure of not greater than 50 psi. to prevent damage to fountain equipment.

P10. Incoming make-up water lines shall be protected by a dedicated reduced pressure principle backflow protector if connected to a potable water supply.

P11. Fountain Contractor will stub a 3" gravity drain line five feet from the edge of the fountain basin. See Civil plans for connection to an appropriate sewer.

MATERIAL LEGEND

ITEM	QTY	DESCRIPTION
N1	4	Scupper
F1	1	Eyeball Fitting
F2	1	Front Access Skimmer
F3	2	Suction Sump
F4	1	Floor Drain
F5	1	Wall Niche Overflow
F6	1	Water Level Control
L1	6	Light Fixture
E1	1	Submersible Junction Box
E2	6	Cord Seal
E3	1	Slab Conduit
E4	1	Control Panel
E5	1	Lighting Transformer
P1	1	Display Pump
W1	1	Cartridge Filter
W2	1	Sanitizer

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Joel M. Wolcott, P.E.
Florida PE#56165

CLIENT
VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT
GARY MATZNER PARK

SHEET TITLE
FOUNTAIN PIPING PLAN

SHEET NUMBER F1.2

KEITH PROJECT NUMBER 13861.00

STATUS: CONSTRUCTION DOCUMENTS

Drawing name: S:\Project Files\Pinecrest Walk\3 - Drawing\dc - dwg\3 - Working Drawings\157001.dwg

Plotted by: jwolcott On 11/21/2024 12:57 PM

LEGEND

P1 MATERIAL CALLOUT

M1 NOTE CALLOUT

LINE LEGEND

MFS Main Filter Suction Line
SKS Skimmer Suction Line
FR Filter Return Line
ICW Incoming Cold Water
BW Backwash Line to Waste
SPD Sump Pump Discharge Line to Waste
DS Display Suction Line
JD Jet Discharge Line
BD Ballast Discharge Line
PPD Pool to Pool Drain Line
OD Overflow Drain Line
PD Pool Drain Line
EQ Equalization Line
GR Gravity Return Line
VNT Exhaust Vent

SCHEMATIC LEGEND

BALL VALVE
3-WAY VALVE
BALL CHECK VALVE
BUTTERFLY VALVE
WAFER CHECK VALVE
SOLENOID VALVE
Y-STRAINER
FLANGED Y-STRAINER
FLANGED BASKET STRAINER
FLANGED CONCENTRIC REDUCER
FLANGED ECCENTRIC REDUCER
CENTRIFUGAL PUMP
VACUUM GAUGE 0-30" Hg
PRESSURE GAUGE 0-60 PSI
FLOW METER
FLANGED PUMP W/STRAINER
PUMP W/STRAINER
CARTRIDGE FILTER
SAND FILTER
EROSION CHEMICAL FEEDER
SUMP PUMP
FLOW DIRECTION ARROW
PIPE SIZE REDUCER
SOCKET WELD CONNECTION
FLANGE CONNECTION
PIPE
CONDUIT
45° ELBOW
90° ELBOW
ELBOW UP
ELBOW DOWN
TEE
TEE WITH BRANCH DOWN
TEE WITH BRANCH UP
WYE
UNION

MATERIAL LIST

ITEM	QTY	DESCRIPTION	DETAIL	MANUFACTURER	MODEL #	NOTES
N1	4	Scupper	N1/F3.1	Freeport Fountains	Custom	Copper Construction, 1-1/2" conn., With Bond Lug.
F1	1	Eyeball Fitting	F1/F3.1	Freeport Fountains	#F115P	Black Cycolac Construction, 1 ½" Inside Slip Conn., ½" Directionally Adjustable Orifice
F2	1	Front Access Skimmer	F2/F3.1	Freeport Fountains LLC	#F315	Black cycolac body and removable basket and weir, cast bronze faceplate, 1½" slip PVC conn.
F3	2	Suction Sump	F3/F3.1	Pentair	500111	ABS. construction, 8" dia. Drain body with 2" female n.p.t. side port, 8" dia. black cover
F4	1	Floor Drain	F4/F3.1	Freeport Fountains LLC	#F1040	Stainless steel threaded coupling, stainless steel waterstop flange with bonding lug, 4" female NPT conn., 4" stainless steel plug
F5	1	Wall Niche Overflow	F5/F3.1	Freeport Fountains LLC	#F1120	Cast brass body, 2" x 6" slotted face, 2" female n.p.t. conn.
F6	1	Water Level Control	F6/F3.1	Freeport Fountains LLC	#F1305	ABS plastic wall niche, bronze frame, stainless steel cover with stainless steel fasteners, molded plastic float valve, 1/2" n.p.t. bottom conn.
L1	6	Light Fixture	L1/F3.1	PEM Fountains	1210/B1	Stainless steel fitted cast bronze construction, clear glass lens, B1 tripod stand, 9' 18/5 submersible cable, 30 watt, 12 volt, AC LED board with DMX controlled RGBW LEDS and 20 degree spot diffuser, UL listed.
E1	1	Submersible Junction Box	E1/F3.1	PEM Fountains	J3	Cast bronze body and cover, neoprene cover gasket, (6) ½" cord seals, (1) 1" bottom tap, UL listed.
E2	6	Cord Seal	E2/F3.1	PEM Fountains	J14	Machined brass with neoprene gland ½" male N.P.T. conn.
E3	1	Slab Conduit	E3/F3.1	Freeport Fountains LLC	#F810	Stainless steel threaded coupling, stainless steel waterstop flange with bonding lug, 1" female NPT conn.
E4	1	Control Panel	E4/F3.1	Freeport Fountains LLC	#E300	NEMA 4X fiberglass enclosure, 120/208 volt single phase service, main breaker with through door disconnect, IEC type contactor for 3 HP pump, GFCI motor breaker, GFCI breaker for lights, GFCI breaker for sanitizer, control circuit breaker, separate 24 HR time clock, HOA switch and run light for pump and lights, lighting and sanitizer contactors, DMX splitter, UL508A listed and labeled
E5	1	Lighting Transformer	E5/F3.1	Intermatic	PX300S	Isolation type, 120 volt primary, 12, 13, 14 VAC secondary, 300 watts, NEMA 3R stainless steel enclosure
P1	1	Display Pump	A/F2.1	Pentair	WFE-12	Thermoplastic construction, integral basket strainer, 3 HP, 3500 RPM, 208-230 volt, single phase motor
W1	1	Cartridge Filter	A/F2.1	Pentair	CC-100RP	Molded thermoplastic body, 100 sq. ft. cartridge, 2" conn., pressure gauge and air relief valve
W2	1	Sanitizer	A/F2.1	C-M-P	Del AOP-25	Combined Ozone and UV-C, 2" union PVC connections, 110/240 VAC, 60 Hz, 1 Phase

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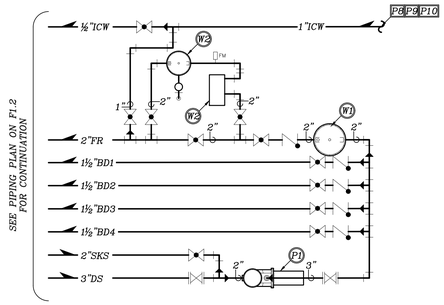
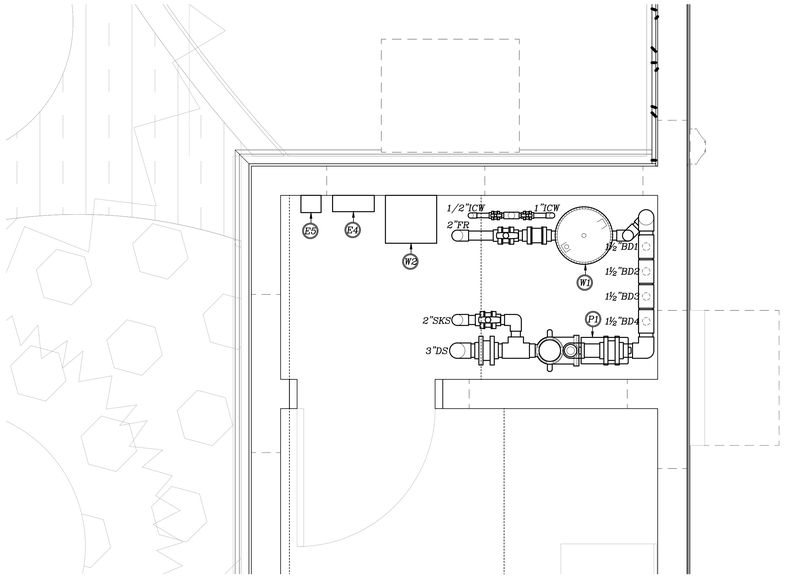


FOUNTAIN PIPING SCHEMATIC (A)
SCALE: NONE



EQUIPMENT ROOM PLAN (B)
SCALE: 3/4"= 1'-0"

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Florida PE#56165

CLIENT
VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT
GARY MATZNER PARK

SHEET TITLE
FOUNTAIN EQUIPMENT ROOM AND MATERIAL LIST

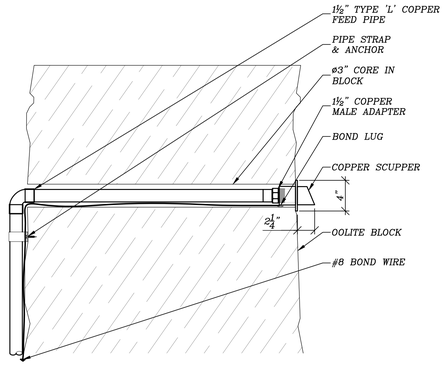
SHEET NUMBER F2.1

KEITH PROJECT NUMBER 13861.00

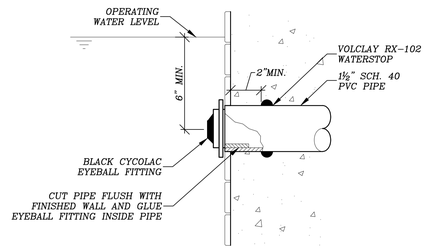
STATUS: CONSTRUCTION DOCUMENTS

Plotted by: jwolcott On 11/21/2024 12:57 PM

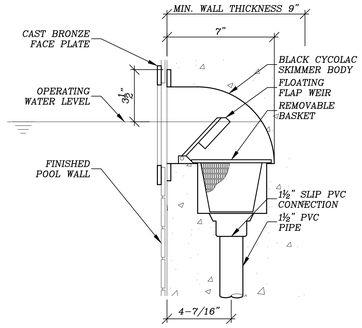
Drawing name: S:\Project Files\Pinecrest Walk\3 - Drawings\c - dwgs\3. Working Drawings\13700f1.dwg



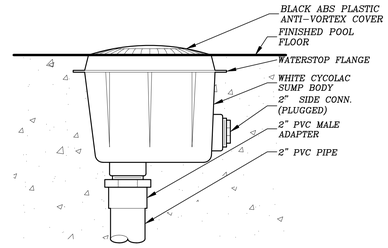
FOUNTAIN SCUPPER (N1)
SCALE: 1 1/2"=1'-0"



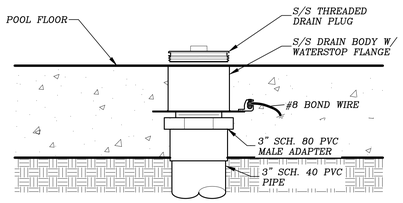
EYEBALL FITTING (F1)
SCALE: 3"=1'-0"



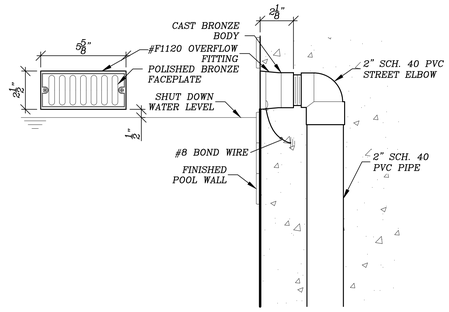
FRONT ACCESS SKIMMER (F2)
SCALE: 3"=1'-0"



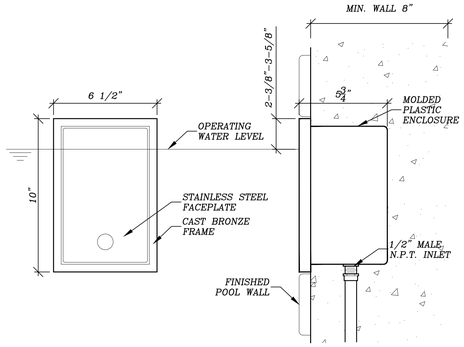
SUCTION SUMP (F3)
SCALE: 3"=1'-0"



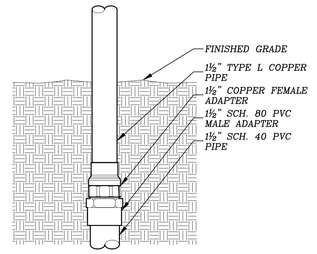
FLOOR DRAIN (F4)
SCALE: 3"=1'-0"



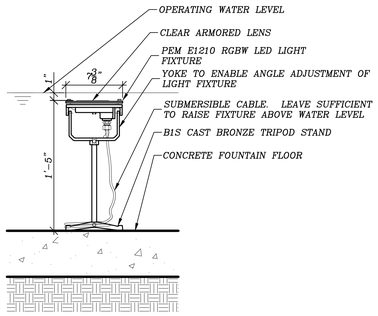
WALL NICHE OVERFLOW (F5)
SCALE: 3"=1'-0"



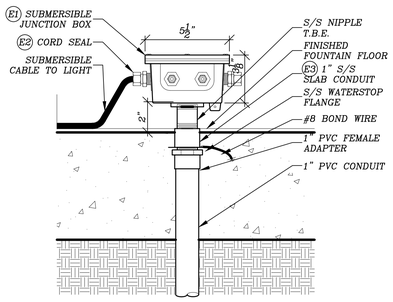
WATER LEVEL CONTROL (F6)
SCALE: 3"=1'-0"



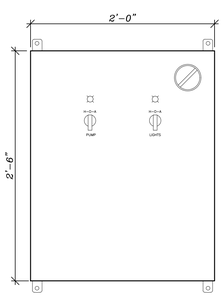
PVC TO COPPER PIPE TRANSITION (F7)
SCALE: 3"=1'-0"



LIGHT FIXTURE (L1)
SCALE: 1 1/2"=1'-0"



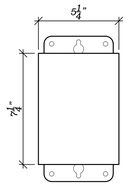
JUNCTION BOX (E1) (E2) (E3)
SCALE: 3"=1'-0"



SPECIFICATIONS:
The fountain control panel is designed for fully automatic operate of the fountain. It will be factory wired and tested and will include, but not be limited to, the following features:

- *NEMA 4X fiberglass properly sized to accommodate all electrical equipment*
- *U.L. 508A listing and label*
- *Main circuit breaker with through door disconnect for 120/208 volt, single phase incoming power*
- *Motor GFCI circuit breaker and properly sized for one 208 volt, single phase pump*
- *IEC type contactor for pump*
- *120 volt GFCI lighting circuit breaker*
- *Control circuit breaker*
- *120 volt GFCI circuit breaker for sanitizer*
- *IEC type contactor for lights*
- *IEC type contactor for sanitizer*
- *Door mounted, hand operated H-O-A switches for the pump and lights (2 total)*
- *Door mounted, run lights for the pump and lights (2 total)*
- *DMX splitter for light fixtures*
- *Neutral and ground bars*

CONTROL PANEL (E4)
SCALE: 1 1/2" = 1'-0"



SPECIFICATIONS:
Safety transformer for low voltage fountain lights.

- *Stainless steel enclosure*
- *U.L. listing and label*
- *Grounded shield between primary and secondary windings*
- *300 watt*
- *120 volt primary, 12, 13, 14 volt secondary taps*

LIGHTING TRANSFORMER (E5)
SCALE: 3"=1'-0"

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: LB6860
Florida Landscape Architecture Business License: LC26000457

LANDSCAPE ARCHITECT:
MKSK
801 INTERNATIONAL PARKWAY
LAKE MARY, FL 32746
407.871.9607
MKSKSTUDIOS.COM

ARCHITECT:
WANNEMACHER JENSEN ARCHITECTS
815 NORTHWEST 57 AVE. SUITE 219
MIAMI, FLORIDA 33126
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WJARC.COM AA0002277

MECHANICAL, PLUMBING, & ELECTRICAL ENGINEERING:
FREEPORT FOUNTAINS
1510 Kastner Place
Sanford, FL 32771
www.freeportfountains.com
(407) 330-1150

REVISIONS

NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	11/21/24

ISSUE DATE:	11/21/24
DESIGNED BY:	
DRAWN BY:	RV
CHECKED BY:	JMW

Joel M. Wolcott, P.E.
Florida PE#56165

CLIENT
VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT
GARY MATZNER PARK

SHEET TITLE
FOUNTAIN DETAILS

SHEET NUMBER F3.1

KEITH PROJECT NUMBER 13861.00

STATUS: CONSTRUCTION DOCUMENTS

Drawing name: S:\Project Files\Pinecrest Walk\3 - Drawings\c - dwg\3 - Working Drawings\15701.dwg

Plotted by: jwolcott On 11/21/2024 12:57 PM

LEGEND

P1 — MATERIAL CALLOUT

M1 — NOTE CALLOUT

PLAN VIEW LEGEND

- FOUNTAIN NOZZLE
- EYEBALL FITTING
- VACUUM FITTING
- SURFACE SKIMMER
- SUCTION/BALLAST FITTING W/ANTI-VORTEX PLATE
- LARGE SUCTION SUMP W/SUCTION SCREEN
- FLOOR DRAIN
- WALL NICHE OVERFLOW OVERFLOW STANDPIPE/FLOOR DRAIN
- WALL NICHE LEVEL SENSOR
- CONDUIT MOUNTED LEVEL SENSOR
- LARGE FREESTANDING LIGHT FIXTURE
- SMALL FREESTANDING LIGHT FIXTURE
- SMALL JUNCTION BOX
- MEDIUM JUNCTION BOX
- LARGE JUNCTION BOX
- NICHE JUNCTION BOX
- ANEMOMETER

ELECTRICAL LEGEND

- CONDUIT
- CONDUIT SWEEP
- G — CONDUIT RUN TO FOUNTAIN CONTROL PANEL WITH ID
- G — CONDUIT RUN WITH ID
- WP GFCI — WEATHERPROOF GFCI CONVENIENCE OUTLET
- S — WEATHERPROOF SINGLE POLE SWITCH
- CEILING MOUNTED WEATHERPROOF LIGHT FIXTURE
- JUNCTION BOX

MATERIAL LEGEND

ITEM	QTY	DESCRIPTION
N1	4	Scupper
F1	1	Eyeball Fitting
F2	1	Front Access Skimmer
F3	2	Suction Sump
F4	1	Floor Drain
F5	1	Wall Niche Overflow
F6	1	Water Level Control
L1	6	Light Fixture
E1	1	Submersible Junction Box
E2	6	Cord Seal
E3	1	Slab Conduit
E4	1	Control Panel
E5	1	Lighting Transformer
P1	1	Display Pump
W1	1	Cartridge Filter
W2	1	Sanitizer

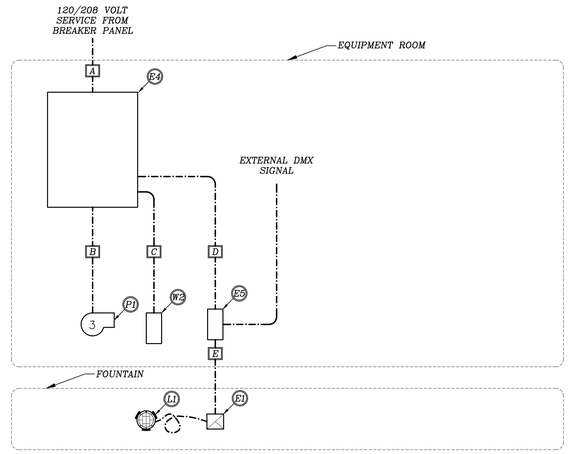
Panel: Fountain Control Panel

Voltage: 120/208 V, 1 PH, 3 W

Main: 40 A WITH TROUGH DOOR DISCONNECT — 10k AIC RATING

VA	Load Served	CB	ID	A	B	ID	CB	Load Served	VA
2000	3 HP Pump P1	25/2-GFI	CB1	*	–	L-CB	15/1-GFI	Lighting Power Supply	300
2000				–	*	CB2	10/1-GFI	Sanitizer	300
	–			*	–			–	
	–			–	*			–	

	Total		Motor	Other	Total
Phase A	2,300	Connected kVA	4.00	0.6	5.69
Phase B	2,300	Demand Factor	1.25	1	–
		Adjusted kVA	5.00	0.6	5.6
		Adjusted Amps.	–	–	24.3



ELECTRIC RISER DIAGRAM (A)
N.T.S.

GENERAL NOTES

G1. The applicable building code for this project is the Florida Building Code, 8th edition (2023). To the best of my knowledge and ability the design complies with the applicable building codes.

G2. Written dimensions take precedence over scaled dimensions.

G3. This fountain is not intended as an interactive water feature.

ELECTRICAL NOTES

E1. All electrical work shall comply with Article 680 of the 2020 National Electrical Code.

E2. Conduit runs are shown for clarity. Conduit shall be installed with as few changes in direction as conditions allow.

E3. All underground conduit shall be sch. 40 PVC. All conduit in pump rooms or vaults shall be sch. 40 PVC except for flexible conduit not longer than four feet in length for connection to equipment subject to vibration.

E4. Allow 3 feet of clear space from floor to ceiling for all electrical control panels.

E5. All metal pool fittings shall be bonded with a #8 bond wire per NEC 680-53.

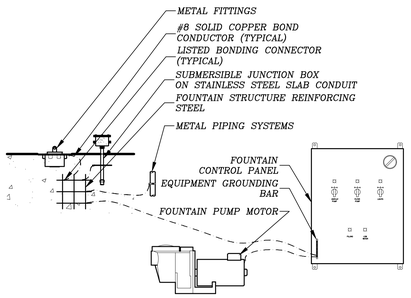
E6. Submersible junction boxes shall be sealed with paraffin wax or other approved re-enterable potting compound.

E7. All control panels shall be UL508A listed and labeled.

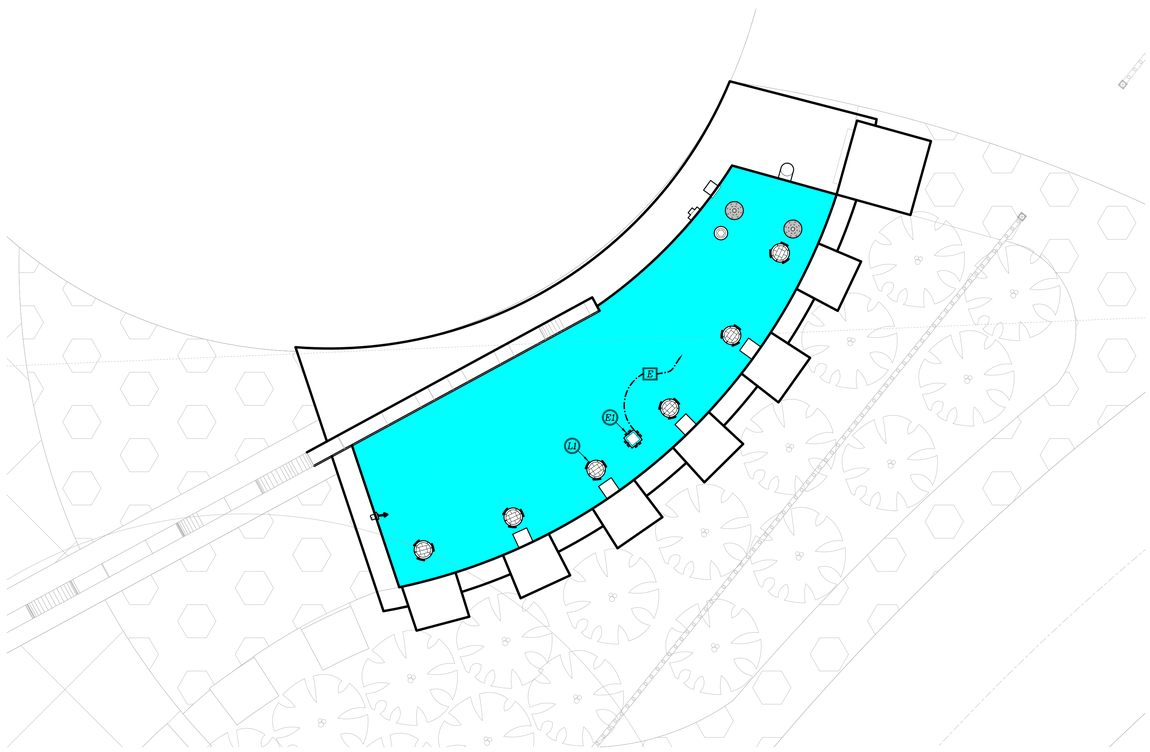
E8. Provide Arc Flash warning labels on Fountain Control Panel per NEC 110.16.

CONDUIT LEGEND

CIRCUIT ID	CONDUIT SIZE	WIRE SIZE	BREAKER	NOTES
A	–	–	MCB	INCOMING, 120/208 VOLT, 1PHASE
B	¾"	2#10+G	CB1	3 HP, 208 VOLT, SINGLE PHASE PUMP
C	¾"	2#12+G	CB2	AOP SANITIZER
D	¾"	2#12+G	L-CB1	120 VOLT LIGHTING TRANSFORMER
E	¾"	2#10, 2CAT5+G	L-CB1	12 VOLT LIGHT FIXTURES



BONDING SCHEMATIC (B)
SCALE: NONE



FOUNTAIN ELECTRICAL PLAN
SCALE: 1/2"= 1'-0"
N
1 0 2 4
SCALE IN FEET

PROJECT LEAD & CIVIL ENGINEERING:

KEITH
301 EAST ATLANTIC BLVD.
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PH: (954) 788-3400
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Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

LANDSCAPE ARCHITECT:

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ARCHITECT:

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Joel M. Wolcott, P.E.
Florida PE#56165

CLIENT
VILLAGE OF PINECREST
PINECREST PARKS & RECREATION

PROJECT
GARY MATZNER PARK

SHEET TITLE
FOUNTAIN ELECTRICAL PLAN

SHEET NUMBER **FE1**

KEITH PROJECT NUMBER **13861.00**

STATUS: CONSTRUCTION DOCUMENTS

Plotted by: jwolcott On 11/21/2024 12:57 PM

Drawing name: S:\Project Files\Pinecrest Walk\3 - Drawings\c - design\3. Working Drawings\137001.dwg