

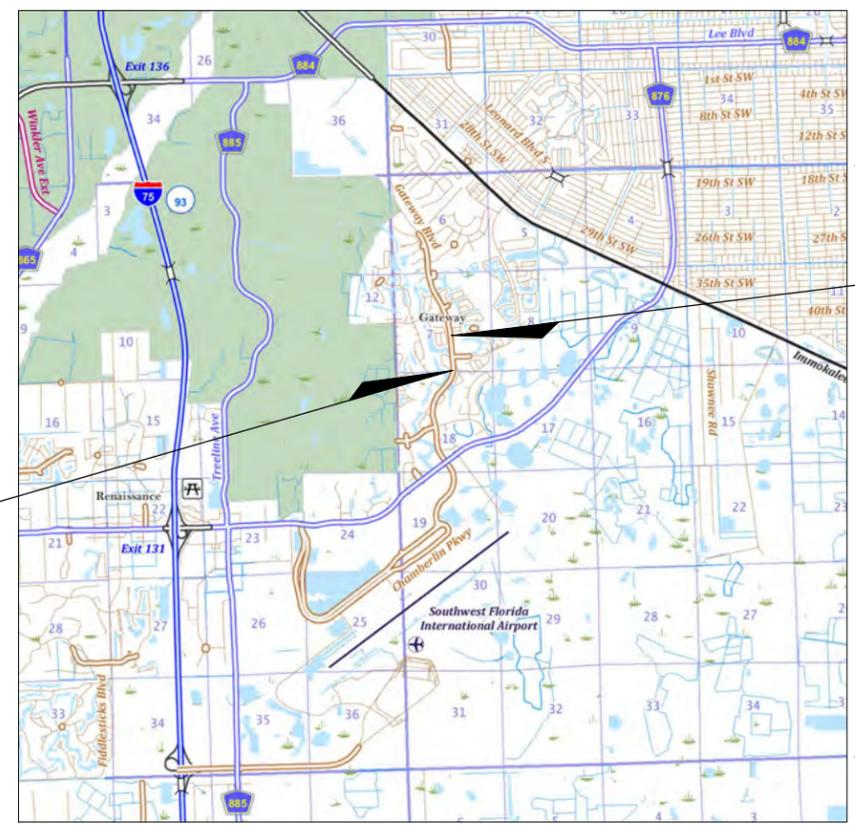
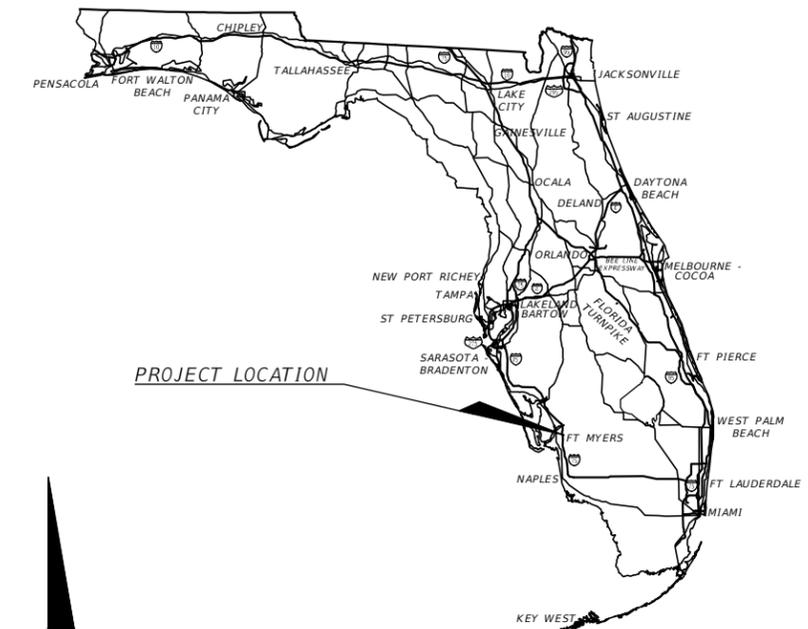
**LEE COUNTY
DEPARTMENT OF TRANSPORTATION**

FOUNTAIN & LANDSCAPE PLANS

**GATEWAY BOULEVARD AT GRIFFIN DRIVE
INTERSECTION CONTROL (ROUNDAABOUT)
LEE COUNTY PROJECT NO. 200672**

INDEX OF FOUNTAIN & LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
F1.1	FOUNTAIN PLAN
F1.2	PIPING PLAN
F2.1	FOUNTAIN SECTIONS
F3.1	PUMP VAULT MECHANICAL
F4.1	MECHANICAL FOUNTAIN DETAILS
FE1	FOUNTAIN ELECTRICAL
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FS1	FOUNTAIN STRUCTURAL PLAN
FS2	FOUNTAIN STRUCTURAL
LA-1	LANDSCAPE PLAN & FOUNTAIN MATERIAL SELECTION
LA-2	PLANTING NOTES & DETAILS
IR-1	IRRIGATION PLAN & IRRIGATION SCHEDULE
IR-2	IRRIGATION DETAILS



BEGIN PROJECT
GATEWAY BLVD.
SURVEY
STA. 145+78.67

END PROJECT
GATEWAY BLVD.
SURVEY
STA. 153+43.55

T-44-S
T-45-S

T-44-S
T-45-S

T-45-S
T-46-S

T-45-S
T-46-S

R-25-E
R-26-E

R-25-E
R-26-E



FOUNTAIN PLANS
ENGINEER OF RECORD:
JOEL M. WOLCOTT
P.E. NO. 56165
FREEPORT FOUNTAINS
1510 KASTNER PLACE
SANFORD, FL. 32771

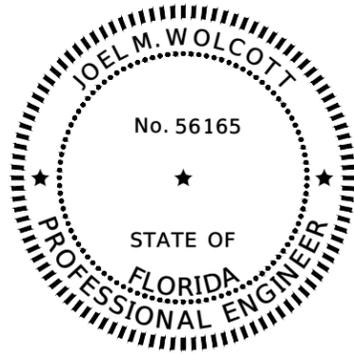
IRRIGATION PLANS
LANDSCAPE ARCHITECT OF RECORD:
DAYNA L. FENDRICK
L.A. NO. 0001224
URBAN GREEN STUDIO
P.O. BOX 111841
NAPLES, FL. 34108

COUNTY PROJECT MANAGER:
Dave Murphy, P.E.

**FINAL PLANS
JULY 2022**

CIP NO.	FISCAL YEAR	SHEET NO.
200672	22	1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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ON THE DATE ADJACENT TO THE SEAL

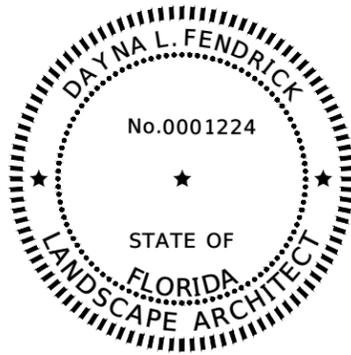
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FREEPORT FOUNTAINS
1510 KASTNER PLACE
SANFORD, FL. 32771
JOEL M. WOLCOTT, P.E. NO. 56165

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN
ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

PLAN INDEX

- 1 KEY SHEET
- 2 SIGNATURE SHEET
- F1.1 FOUNTAIN PLAN
- F1.2 PIPING PLAN
- F2.1 FOUNTAIN SECTIONS
- F3.1 PUMP VAULT MECHANICAL
- F4.1 MECHANICAL FOUNTAIN DETAILS
- FE1 FOUNTAIN ELECTRICAL
- FE2 ELECTRICAL FOUNTAIN DETAILS
- FS1 FOUNTAIN STRUCTURAL PLAN
- FS2 FOUNTAIN STRUCTURAL



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URBAN GREEN STUDIOS
P.O. BOX 111841
NAPLES, FL. 34108
DAYNA L. FENDRICK, L.A. NO. 0001224

THE ABOVE NAMED PROFESSIONAL SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN
ACCORDANCE WITH RULE 61G10-11.011, F.A.C.

PLAN INDEX

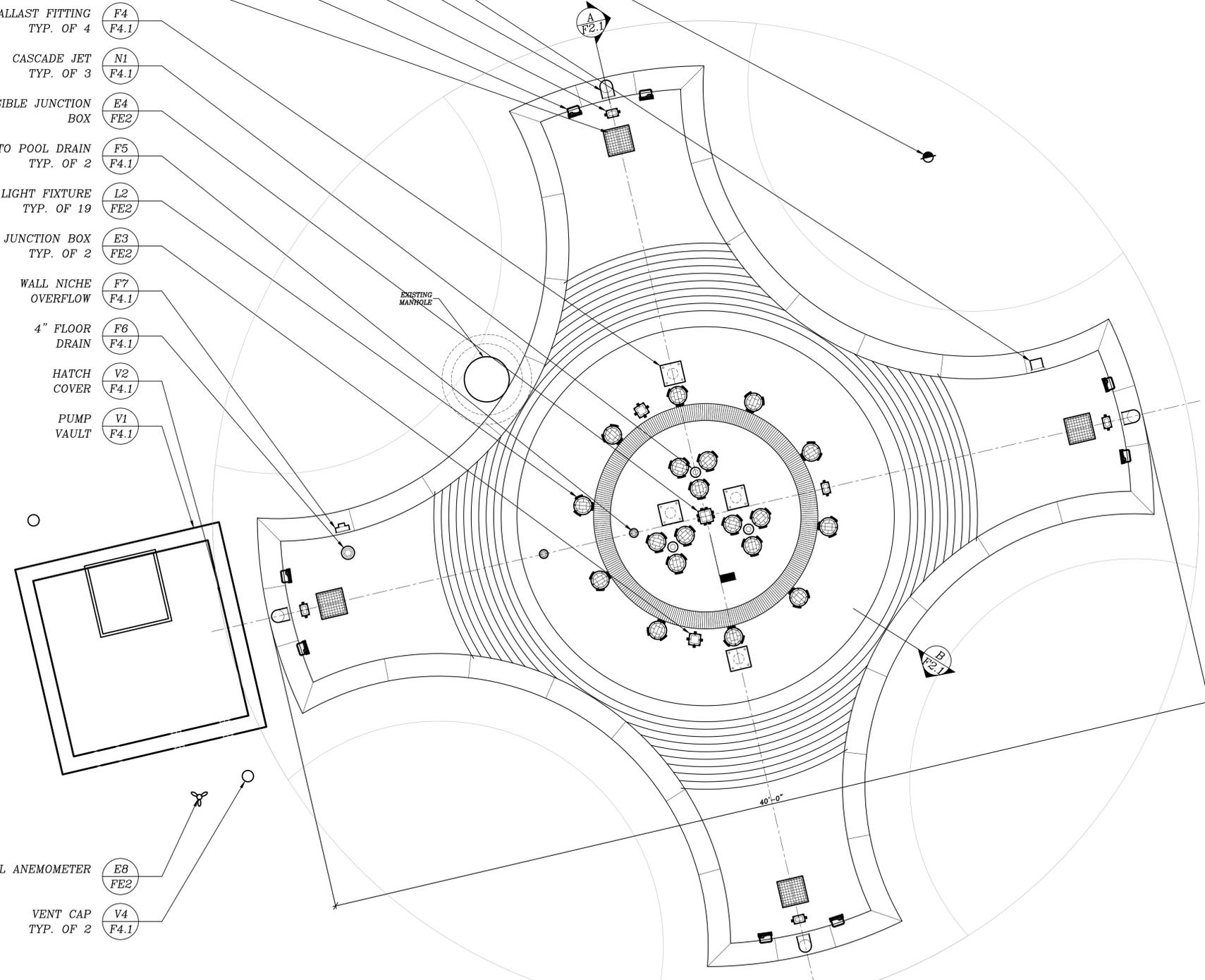
- 1 KEY SHEET
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- IR-2 IRRIGATION DETAILS

R E V I S I O N S				CARDNO, INC. 1821 VICTORIA AVE. FORT MYERS, FL. 33901		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)	SIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SIGNATURE SHEET	200672	2
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- LEGEND**
- MATERIAL CALLOUT
 - 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
 - FLOOR MOUNTED LIGHT FIXTURE
 - WALL MOUNTED LIGHT FIXTURE
 - SMALL JUNCTION BOX
 - MEDIUM JUNCTION BOX
 - LARGE JUNCTION BOX
 - NICHE JUNCTION BOX
 - ANEMOMETER
 - BACKFLOW PREVENTOR

- BACKFLOW PREVENTOR (F8 F4.1)
- WATER LEVEL SENSOR (E1 FE2)
- FRONT ACCESS SKIMMER (F1 F4.1) TYP. OF 4
- SUBMERSIBLE JUNCTION BOX (E2 FE2) TYP. OF 5
- WALL MOUNTED LIGHT FIXTURE (L2 FE2) TYP. OF 8
- LARGE SUCTION SUMP (F2 F4.1) TYP. OF 4
- BALLAST FITTING (F4 F4.1) TYP. OF 4
- CASCADE JET (N1 F4.1) TYP. OF 3
- SUBMERSIBLE JUNCTION BOX (E4 FE2)
- POOL TO POOL DRAIN (F5 F4.1) TYP. OF 2
- FLOOR MOUNTED LIGHT FIXTURE (L2 FE2) TYP. OF 19
- SUBMERSIBLE JUNCTION BOX (E3 FE2) TYP. OF 2
- WALL NICHE OVERFLOW (F7 F4.1)
- 4" FLOOR DRAIN (F6 F4.1)
- HATCH COVER (V2 F4.1)
- PUMP VAULT (V1 F4.1)

- WIND CONTROL ANEMOMETER (E8 FE2)
- VENT CAP (V4 F4.1) TYP. OF 2



FOUNTAIN PLAN
SCALE: 3/8" = 1'-0"
SCALE IN FEET

GENERAL NOTES

- G1. The applicable building code for this project is the Florida Building Code, 7th edition (2020). 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.

FOUNTAIN UTILITY REQUIREMENTS	
ELECTRICAL	
VOLTAGE	120/208
PHASE	THREE
NEUTRAL	REQUIRED
SERVICE SIZE	150 AMP.
CONNECTED LOAD	142.3 AMP.
FOUNTAIN DRAIN	
SIZE	4" INCH
CONNECTION POINT	EXISTING WETWELL
TYPE	GRAVITY
PUMP VAULT DRAIN	
SIZE	2" INCH
CONNECTION POINT	EXISTING WETWELL
TYPE	PRESSURE
WATER	
SERVICE SIZE	1" INCH
BACKFLOW PROTECTION	REQUIRED
CONNECTION POINT	NW INTERSECTION

FOUNTAIN DATA	
SURFACE AREA	456 SQ. FT.
VOLUME	5,350 GALLONS
OPERATING WATER LEVEL	1 FT. 6 IN.
SHUT DOWN WATER LEVEL	1 FT. 8.25 IN.
FEATURE RATE	950 GPM
FILTRATION RATE	50 G.P.M.
FILTER TURNOVER	1 HR. 47 MIN.

REVISIONS	DATE	BY	CHKD

FREEPORT FOUNTAINS

1510 Kastner Place
Sanford, FL 32771
EB#27547
(407) 330-1150
www.freeportfountains.com

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

GATEWAY - GRIFFIN
ROUNDBOUT

FOUNTAIN
PLAN

JOB #:	1556
DRAWN	JMW
CHECKED	CA
DATE	6.7.22

F1.1

LEGEND

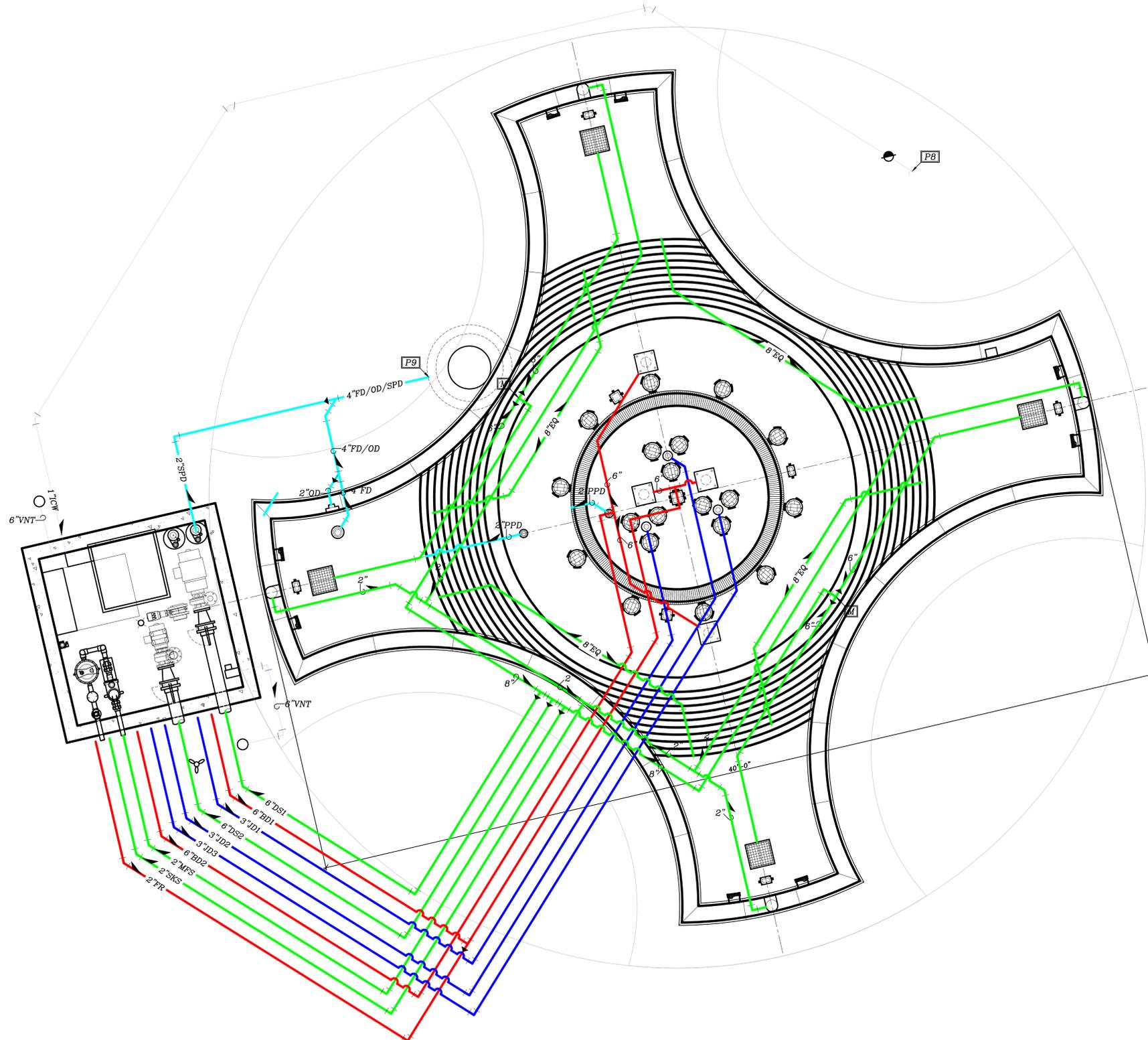
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 - WALL MOUNTED LIGHT FIXTURE
 - SMALL JUNCTION BOX
 - MEDIUM JUNCTION BOX
 - LARGE JUNCTION BOX
 - NICHE JUNCTION BOX
 - ANEMOMETER
 - BACKFLOW PREVENTOR

LINE LEGEND

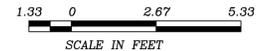
- MFS Main Filter Suction Line
- SKS Skimmer Suction Line
- FR Filter Return Line
- ICW Incoming Cold Water
- BW Backwash Line to Waste
- SPD Sump Pump Discharge Line to Waste
- DS Display Suction Line
- JD Jet Discharge Line
- BD Ballast Discharge Line
- PPD Pool to Pool Drain Line
- OD Overflow Drain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

PIPING LEGEND

- BD AND FR PIPE
- DS, MFS, SKS AND EQ PIPE
- FD, OD AND SPD PIPE
- ICW AND VNT PIPE
- JD 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
- INDICATES TEE AT EXACT MIDPOINT OF TEE OR FITTING



FOUNTAIN PLAN
SCALE: 3/8" = 1'-0"

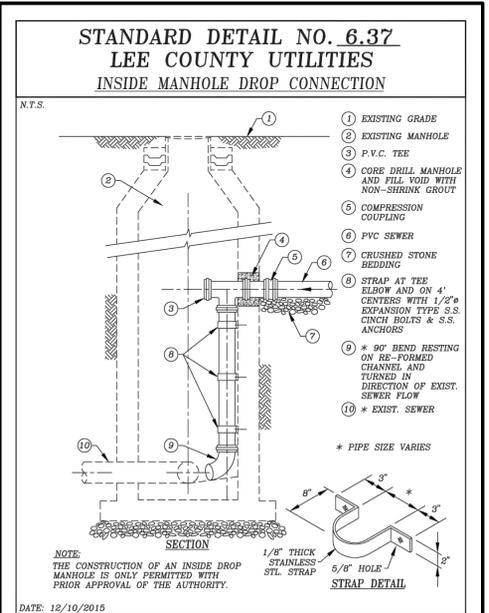


GENERAL NOTES

- G1. The applicable building code for this project is the Florida Building Code, 7th edition (2020). 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.

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 a continuous slope from the pool(s) to the pumping equipment to avoid high loops.
- P3. Gravity return lines shall be installed level or with a 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 connect a 1" incoming make-up water line to existing water line on traffic island.
- P9. Fountain Contractor will connect 4" drain line to existing drainage structure. See connection detail on F1.2.



REVISIONS	
7.26.22	1

FREERPORT
FOUNTAINS

1510 Kastner Place
Sanford, FL 32771
FB#27547
(407) 330-1150
www.freerportfountains.com

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

GATEWAY - GRIFFIN
ROUNDAABOUT

PIPING
PLAN

JOB #:	1556
DRAWN	JMW
CHECKED	CA
DATE	6.7.22

F1.2

LEGEND

PI MATERIAL CALLOUT

M NOTE CALLOUT

FINISH SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	MODEL #	DESCRIPTION
(A)	STUCCO	TEX COTE	COOLWALL SYSTEMS	SAND FINISH, FINAL COLOR SELECTION BY OWNER
(B)	WALL COPING	EM STUDIOS	E-SM-WHITE	PRECAST CONCRETE, WHITE WITH A LIGHT SANDBLAST FINISH
(C)	UPPER WEIR	EM STUDIOS	E-SM-WHITE	PRECAST CONCRETE, WHITE WITH A LIGHT SANDBLAST FINISH
(D)	WATERLINE TILE	TILE BAR	SWIM COLLECTION, BARRIER REEF, 2"x2"	CUT TO 6" WIDE BY 12" TALL STRIPS FOR INSTALLATION AT WATERLINE
(E)	UPPER POOL EXTERIOR & SPILLOVER FACING AT 4 LOWER POOLS	DAL TILE	"MESMEREST", 3"x12" PIECES, BLEND OF COLORS: MYSTIQUE 30% ALLURE 30% WHIMSY 30% CHARM 10%	INSTALL VERTICALLY ORIENTED, RANDOM MIX COLORS, STACKED NOT STAGGERED JOINTS
(F)	WATER STEPS	FUJIWA TILE	GLASSTEL-11, 1"x2"	INSTALL HORIZONTALLY, PARALLEL WITH WATER STEPS
(G)	INTERIOR COATING	MASTERSEAL	581	CEMENTITIOUS WATERPROOF PLASTER, DYE DARK GRAY WITH LAMBERT BLACK PIGMENT

GENERAL NOTES

- G1. The applicable building code for this project is the Florida Building Code, 7th edition (2003). 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.

REVISIONS

FREERPORT FOUNTAINS

1510 Kastner Place
Sanford, FL 32771
ED#27547
(407) 330-1150
www.freerportfountains.com

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

GATEWAY - GRIFFIN ROUNDABOUT

FOUNTAIN SECTIONS

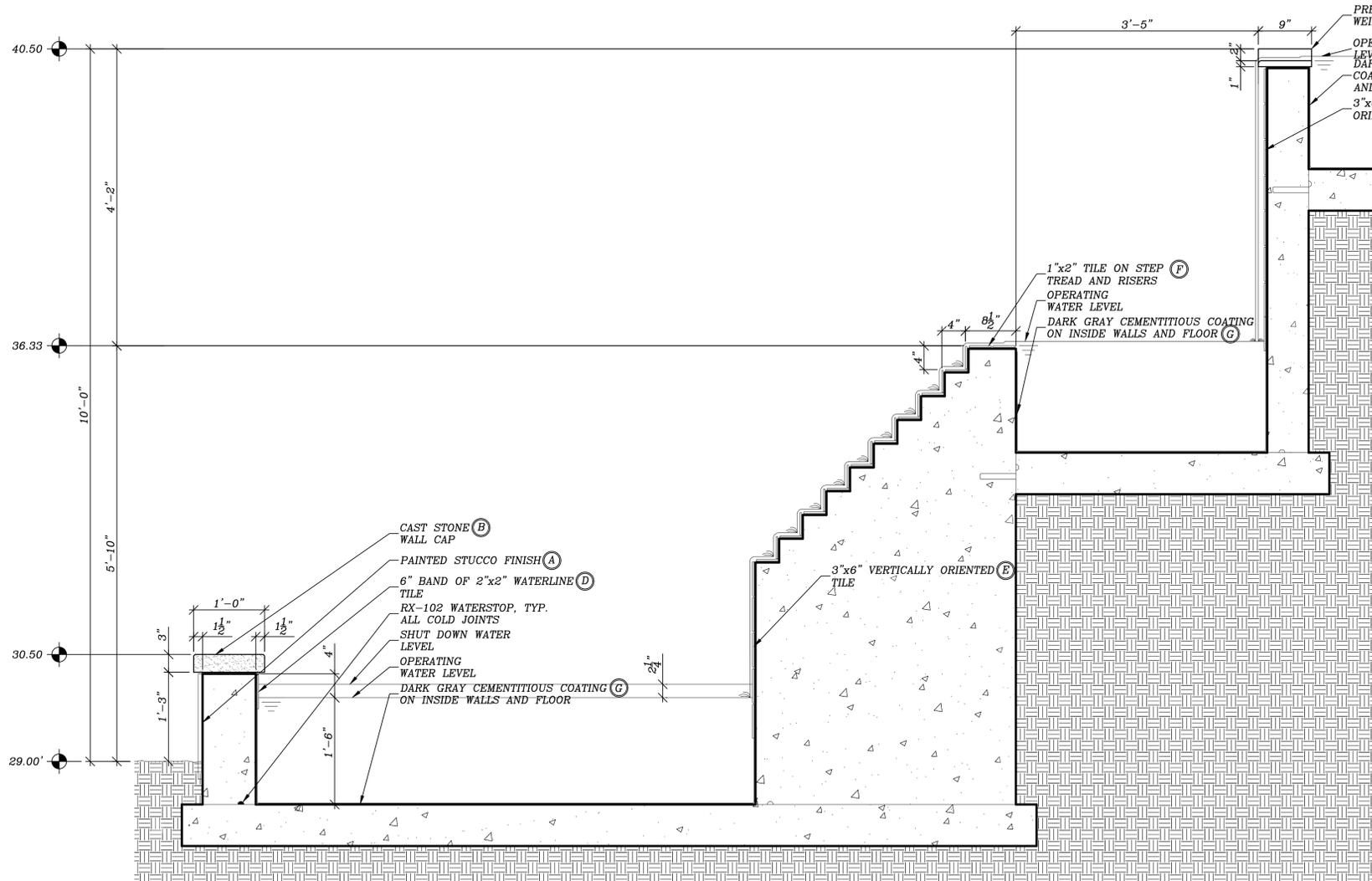
JOB #: 1556

DRAWN JMW

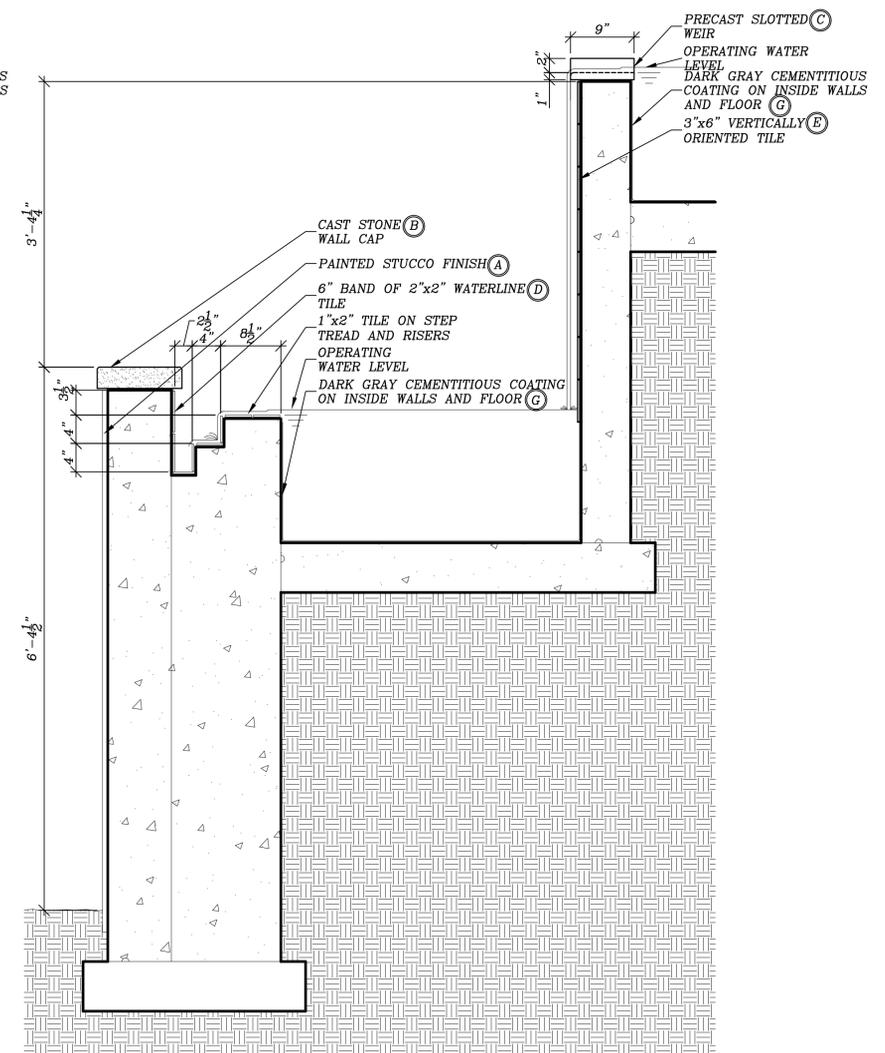
CHECKED CA

DATE 6.7.22

F2.1



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



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

LEGEND

PI MATERIAL CALLOUT

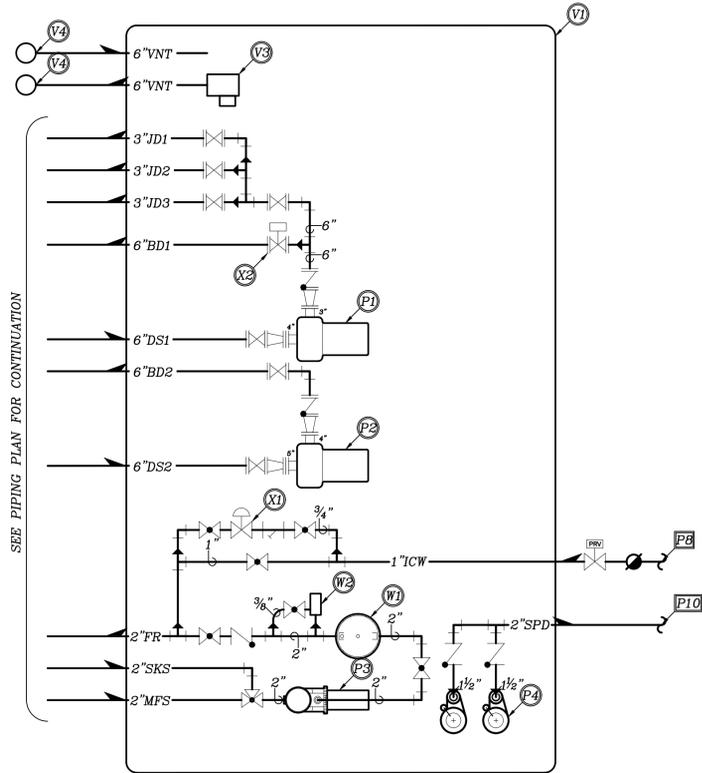
M NOTE CALLOUT

LINE LEGEND

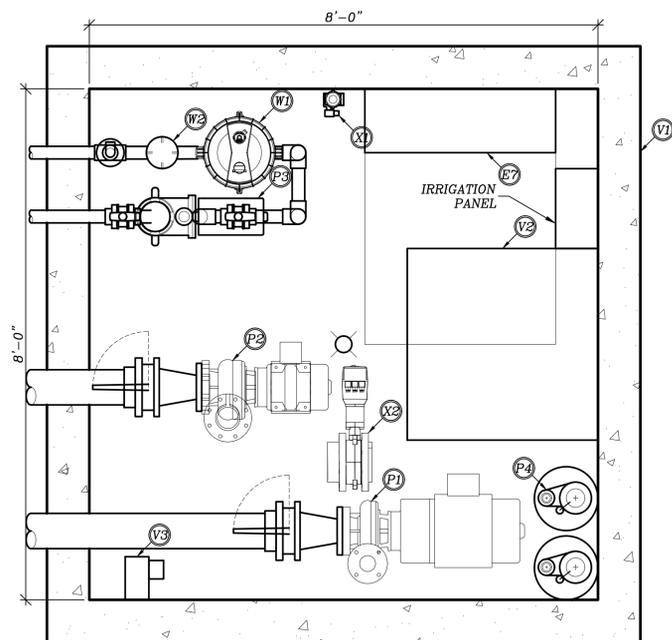
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- DS Display Suction Line
- JD Jet Discharge Line
- BD Ballast Discharge Line
- PPD Pool to Pool Drain Line
- OD Overflow Drain Line
- PD Pool Drain Line
- EQ Equalization Line
- GR Gravity Return Line
- VNT Exhaust Vent

SCHEMATIC LEGEND

- BALL VALVE
- 3-WAY VALVE
- BALL CHECK VALVE
- BUTTERFLY VALVE
- WAFER CHECK VALVE
- SOLENOID VALVE
- MOTORIZED VALVE
- PRESSURE REDUCING 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



FOUNTAIN PIPING SCHEMATIC
SCALE: NONE



PUMP VAULT PLAN
SCALE: 3/4"=1'-0"

MATERIAL LIST

ITEM	QTY	DESCRIPTION	DETAIL	MANUFACTURER	MODEL #	NOTES
(N1)	3	Cascade Jet	N1/F4.1	PEM Fountains	55 or approved equal	Single piece cast Bronze construction, 3" female N.P.T connection
(F1)	4	Front Access Skimmer	F1/F4.1	Waterway	510-1501 or approved equal	Black cycloc body and removable basket and weir, cast bronze faceplate, 1 1/2" slip PVC conn.
(F2)	4	Large Suction Sump	F2/F4.1	ASA Manufacturing	FBS-50-818-6 or approved equal	18"x18"x20" fiberglass body with waterstop flange, 20" x 20" Fiberglass Micro-Mesh FRP grating, 6" slip PVC side conn.
(F3)	3	Slab Penetration	N1/F4.1	Contractor fabricated	-	Stainless steel threaded coupling, stainless steel waterstop flange with bonding lug, 3" female N.P.T. connection.
(F4)	4	Ballast Fitting	F4/F4.1	Contractor fabricated	-	Fabricated from 6" sch. 40 PVC, RX waterstop 17"x17" stainless steel diverter plate fuse coat black
(F5)	2	Pool to Pool Drain	F5/F4.1	Contractor fabricated	-	Stainless steel threaded coupling, stainless steel waterstop flange with bonding lug, 2" female NPT conn., 2" stainless steel threaded plug
(F6)	1	4" Floor Drain	F6/F4.1	Contractor fabricated	-	Stainless steel threaded coupling, stainless steel waterstop flange with bonding lug, 4" female NPT conn., 4" stainless steel plug
(F7)	1	Wall Niche Overflow	F7/F4.1	Standard Bronze	4051 or approved equal	Cast brass body, 2" x 6" slotted face, 2" female n.p.t. conn.
(L1)	19	Floor Mounted Light Fixture	L1/FE2	PEM Fountains	1210B6-2/14-2-9/-B1 or approved equal	Stainless steel fitted cast bronze construction, clear flat armored glass lens, 9' 16/3 submersible cable, stainless steel fitted cast bronze tripod stand for 18" water depth, 30 watt, 24 volt, DC LED plate with 3000K warm white output and 20 degree spot diffuser. UL listed
(L2)	8	Wall Mounted Light Fixture	L2/FE2	PEM Fountains	1210B6-2/14-2-9/-B6-2 or approved equal	Stainless steel fitted cast bronze construction, clear flat armored glass lens, 9' 16/3 submersible cable, cast bronze mounting brackets, 30 watt, 24 volt, DC LED plate with 3000K warm white output and 20 degree spot diffuser. UL listed
(E1)	1	Water Level Sensor	E1/FE2	Crystal Fountains	ESW-203 or approved equal	Cast bronze wall niche and cover, stainless steel bolts, neoprene cover gasket, (2) electronic reed sensors, 3/4" n.p.t. side conn.
(E2)	5	Submersible Junction Box	E2/FE2	PEM Fountains	J1 or approved equal	Cast bronze body and cover, neoprene cover gasket, (2) 1/2" cord seals, (1) 1" bottom tap, UL listed.
(E3)	2	Submersible Junction Box	E3/FE2	PEM Fountains	J2 or approved equal	Cast bronze body and cover, neoprene cover gasket, (4) 1/2" cord seals, (1) 1" bottom tap, UL listed.
(E4)	1	Submersible Junction Box	E4/FE2	PEM Fountains	J4 or approved equal	Cast bronze body and cover, neoprene cover gasket, (9) 1/2" cord seals, (1) 1" bottom tap, UL listed.
(E5)	27	Cord Seal	E2/FE2	PEM Fountains	J14 or approved equal	Machined brass with neoprene gland 1/2" male N.P.T. conn.
(E6)	8	Slab Conduit	E2/FE2	Contractor fabricated	-	Stainless steel threaded coupling, stainless steel waterstop flange with bonding lug, 1" female NPT conn.
(E7)	1	Control Panel	E7/FE2	Contractor fabricated	-	NEMA 4X fiberglass enclosure, 208/120V volt three phase service, main disconnect breaker with through door disconnect, IEC type motor starters for 1, 5 and 15 HP pumps, motor circuit breakers, (2) 15 amp. GFCI breaker for lights, control circuit breaker, utility circuit breakers, separate 24 HR time clock, HOA switch, and run light for display pumps, filter pump and lights, water level monitor, wind control monitor lighting contactor, lighting power supplies, UL508A listed and labeled
(E8)	1	Wind Control Anemometer	E8/FE2	Demico	Anemometer or approved equal	Thermoplastic Construction, 3 Cup Design
(P1)	1	Cascade Jet Display Pump	A/F3.1	Marlow	530SC3-9 or approved equal	Close coupled, bronze fitted cast iron construction, 4" flanged suction, 3" flanged discharge, 465 GPM at 66 FH, 15 HP, 208 volt, 3 phase, 1750 RPM, 60 Hz motor
(P2)	1	Waterfall Display Pump	A/F3.1	Marlow	530SC4-7 or approved equal	Close coupled, bronze fitted cast iron construction, 5" flanged suction, 4" flanged discharge, 485 GPM at 25 FH, 5 HP, 208 volt, 3 phase, 1750 RPM, 60 Hz motor
(P3)	1	Filter Pump	A/F3.1	Pentair	Whisperflo 015583 or approved equal	Thermoplastic construction, integral basket strainer, 1 HP, 3500 RPM, 120/208-230 volt, TEFC single phase motor
(P4)	2	Sump Pump	A/F3.1	Zoeller	M53 or approved equal	Cast Iron construction, 0.3 HP, 120 volt motor, integral float switch
(W1)	1	Cartridge Filter	A/F3.1	Pentair	CC-150 or approved equal	Molded thermoplastic body, 150 sq. ft. cartridge, 2" conn., pressure gauge and air relief valve
(W2)	1	Automatic Brominator	A/F3.1	Pentair	Rainbow 320 or approved equal	PVC Construction, in line mounted, (11) 3" tablet capacity
(X1)	1	Fill manifold, includes	A/F3.1	ASCO	Bulletin 8221 or approved equal	3/4" bronze, slow closing solenoid valve, 3/4" bronze Y-strainer, (2) 3/4" true union ball isolation valves, (1) 1" true union ball quick fill valve
(X2)	1	Diverter Valve	A/F3.1	Georg Fisher	Type 567/145 or approved equal	PVC Butterfly valve with 115 volt AC motorized actuator
(V1)	1	Pump Vault	V1/F4.1	Forterra	Custom	8'x8'x6'-6" inside dimensions, precast concrete construction, integral waterproofing admixture, built to Florida DOT standards for H20 loading
(V2)	1	Hatch Cover	V1/F4.1	Halliday Products	W1R3636 or approved equal	36"x36" single leaf aluminum hatch cover with rain gutter, pedestrian load
(V3)	1	Vent Fan	A/F3.1	Dayton	1TDR7 or approved equal	Enamel Steel Housing, 375 Cfm At 0.5" Sp, 1.35 Amp, 120 Volt Motor. U.L. Listed.
(V4)	2	Vent Cap	V4/F4.1	Zurn	Z-193 or approved equal	Cast iron construction, 6" conn., paint dark green

GENERAL NOTES

- G1. The applicable building code for this project is the Florida Building Code, 7th edition (2020). 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.

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 connect a 1" incoming make-up water line to existing water line on traffic island.
- P9. Fountain Contractor will connect 4" gravity drain line to existing drainage structure.
- P10. Fountain Contractor will stub a 2" pressure drain line to existing drainage structure.

REVISIONS

FREEPORT
FOUNTAINS

1510 Koster Place
Sanford, FL 32771
E#27547
(407) 330-1150
www.freeportfountains.com

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

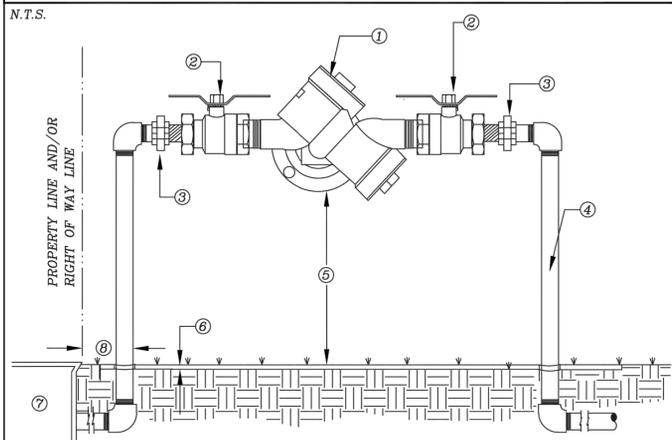
GATEWAY-GRIFFIN
ROUNDABOUT

PUMP VAULT
MECHANICAL

JOB #: 1556
DRAWN JMW
CHECKED CA
DATE 6.7.22

F3.1

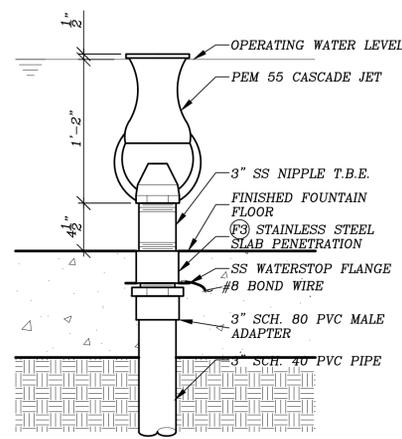
STANDARD DETAIL NO. 6.19
LEE COUNTY UTILITIES
3/4" TO 2" CROSS CONNECTION CONTROL ASSEMBLY



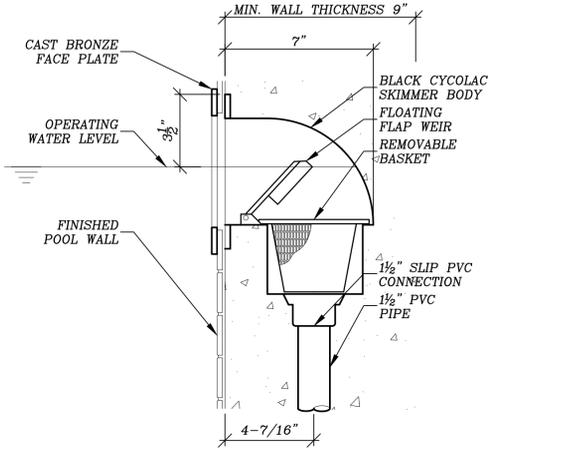
- ① LCU APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE (SEE APPROVED MATERIAL LIST)
- ② FULL FLOW BRONZE BALL VALVE
- ③ UNION
- ④ ALL PIPING AND FITTINGS SHALL BE BRASS OR COPPER
- ⑤ 12" MIN. - 24" MAX. UNLESS OTHERWISE APPROVED BY LCU
- ⑥ FINISHED GRADE
- ⑦ METER BOX
- ⑧ 2' MAXIMUM

NOTES: 1. UNIONS REQUIRED
 2. INITIAL AND ANNUAL DEVICE TESTING REQUIRED

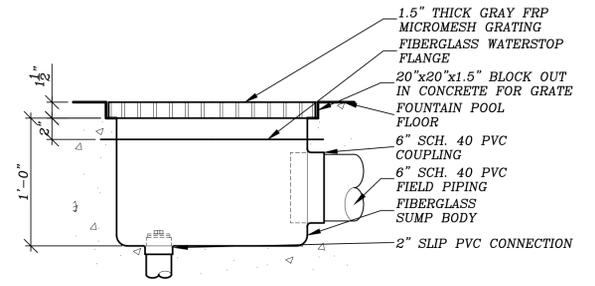
REV: 12/10/2015



CASCADE JET
 SCALE: 1 1/2"=1'-0" (N1)(F3)

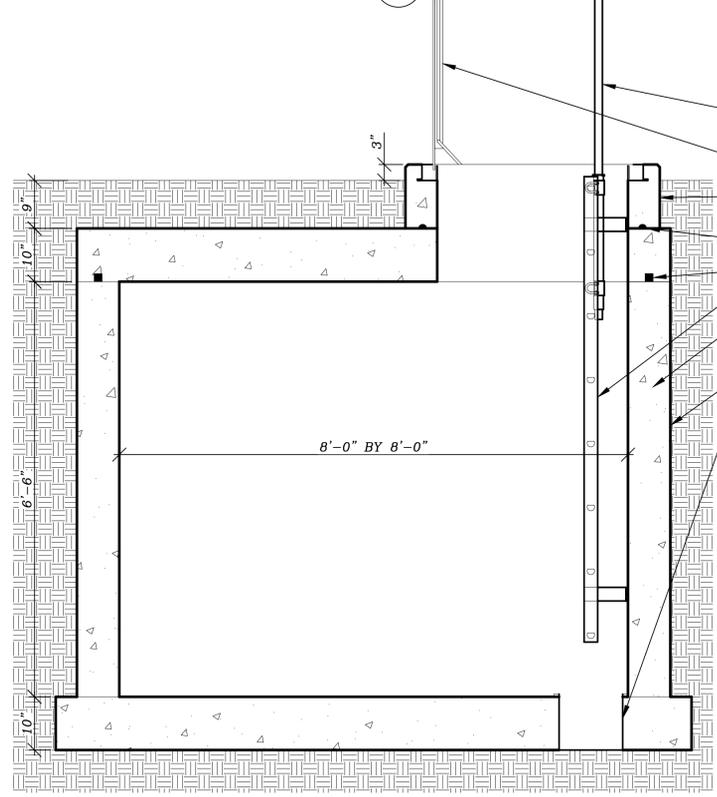


FRONT ACCESS SKIMMER
 SCALE: 3"=1'-0" (F1)

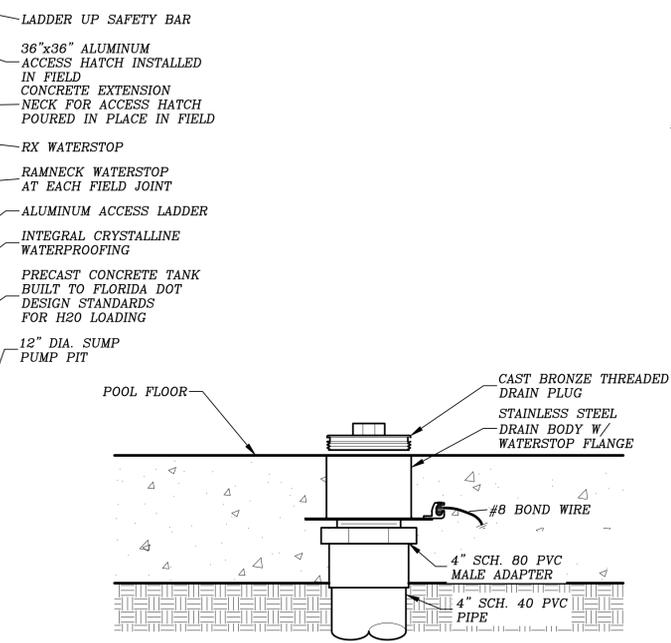


LARGE SUCTION SUMP
 SCALE: 1 1/2"=1'-0" (F2)

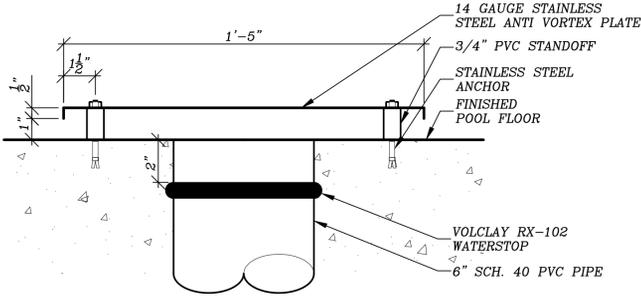
BACKFLOW PREVENTOR
 N.T.S. (F8)



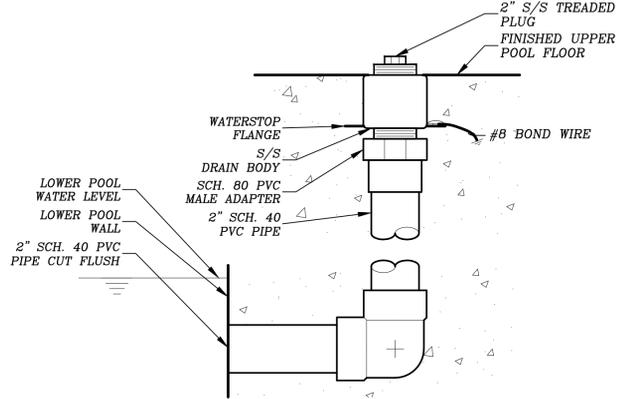
PUMP VAULT
 SCALE: 3/4"=1'-0" (V1)



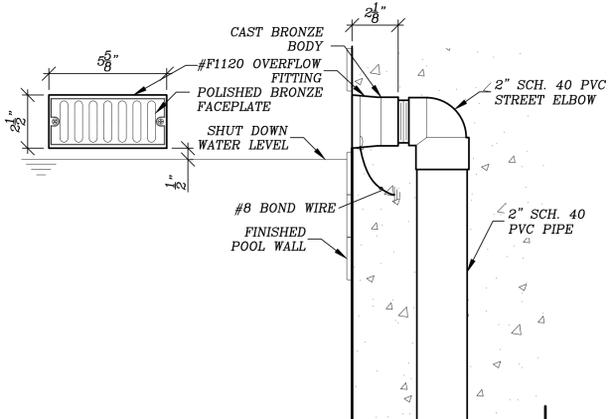
4" FLOOR DRAIN
 SCALE: 3"=1'-0" (F6)



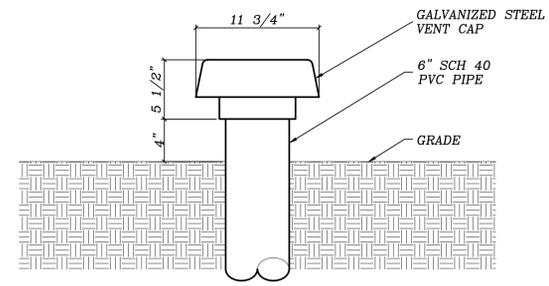
BALLAST FITTING
 SCALE: 3"=1'-0" (F4)



POOL TO POOL DRAIN
 SCALE: 3"=1'-0" (F5)



WALL NICHE OVERFLOW
 SCALE: 3"=1'-0" (F7)



6" VENT CAP
 SCALE: 1-1/2"=1'-0" (V4)

REVISIONS

FREEPORT
FOUNTAINS

1510 Kastner Place
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Joel M. Wolcott, P.E.
 Florida PE#56165

GATEWAY - GRIFFIN
ROUNDABOUT

MECHANICAL
FOUNTAIN DETAILS

JOB #: 1556
 DRAWN: JMW
 CHECKED: CA
 DATE: 6.7.22

F4.1

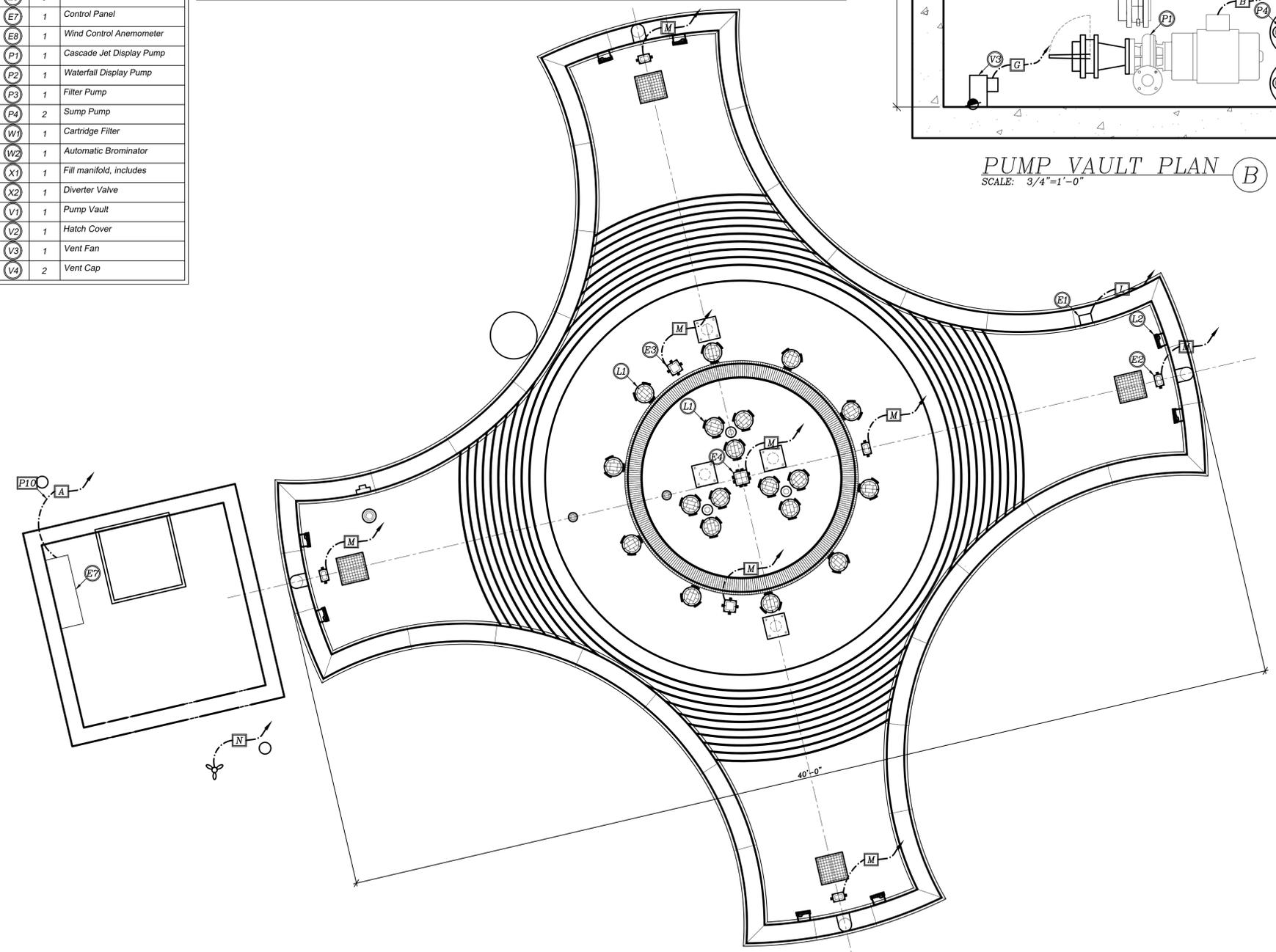
- LEGEND**
- MATERIAL CALLOUT
 - NOTE CALLOUT
- PLAN VIEW LEGEND**
- FOUNTAIN NOZZLE
 - EYEBALL FITTING
 - VACUUM FITTING
 - SURFACE SKIMMER
 - SUCTION/BALLAST FITTING W/ANTI-VORTEX PLATE
 - LARGE SUCTION SUMP W/SUCTION SCREEN
 - FLOOR DRAIN
 - WALL NICHE OVERFLOW OVERFLOW STANDPIPE/FLOOR DRAIN
 - WALL NICHE LEVEL SENSOR
 - CONDUIT MOUNTED LEVEL SENSOR
 - FLOOR MOUNTED LIGHT FIXTURE
 - WALL MOUNTED LIGHT FIXTURE
 - SMALL JUNCTION BOX
 - MEDIUM JUNCTION BOX
 - LARGE JUNCTION BOX
 - NICHE JUNCTION BOX
 - ANEMOMETER
 - BACKFLOW PREVENTOR
- ELECTRICAL LEGEND**
- CONDUIT
 - CONDUIT SWEEP
 - CONDUIT RUN TO FOUNTAIN CONTROL PANEL WITH ID
 - CONDUIT RUN WITH ID
 - WEATHERPROOF GFCI
 - CONVENIENCE OUTLET
 - WEATHERPROOF SINGLE POLE SWITCH
 - CEILING MOUNTED WEATHERPROOF LIGHT FIXTURE
 - JUNCTION BOX

MATERIAL LEGEND		
ITEM	QTY	DESCRIPTION
(N1)	3	Cascade Jet
(F1)	4	Front Access Skimmer
(F2)	4	Large Suction Sump
(F3)	3	Slab Penetration
(F4)	4	Ballast Fitting
(F5)	2	Pool to Pool Drain
(F6)	1	4" Floor Drain
(L1)	1	Wall Niche Overflow
(L2)	19	Floor Mounted Light Fixture
(L3)	8	Wall Mounted Light Fixture
(E1)	1	Water Level Sensor
(E2)	5	Submersible Junction Box
(E3)	2	Submersible Junction Box
(E4)	1	Submersible Junction Box
(E5)	27	Cord Seal
(E6)	8	Slab Conduit
(E7)	1	Control Panel
(E8)	1	Wind Control Anemometer
(P1)	1	Cascade Jet Display Pump
(P2)	1	Waterfall Display Pump
(P3)	1	Filter Pump
(P4)	2	Sump Pump
(W1)	1	Cartridge Filter
(W2)	1	Automatic Brominator
(X1)	1	Fill manifold, includes
(X2)	1	Diverter Valve
(V1)	1	Pump Vault
(V2)	1	Hatch Cover
(V3)	1	Vent Fan
(V4)	2	Vent Cap

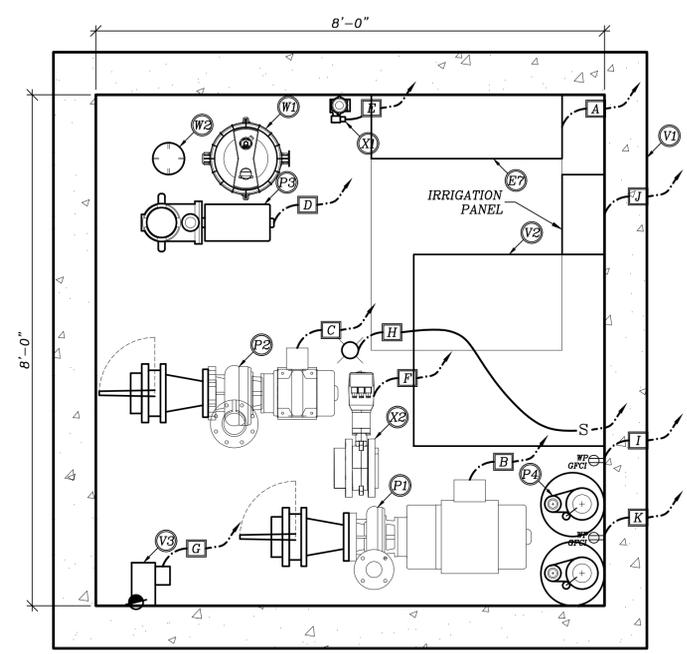
Panel: Fountain Control Panel
Voltage: 120/208 V, 3 PH, 4 W, Wye
Main: 150 A MCB WITH THROUGH DOOR DISCONNECT 10k AIC RATING

VA	Load Served	CB	ID	A	B	C	ID	CB	Load Served	VA
5800	15 HP Cascade Jet Display Pump	90/3	CB1	*	-	-	CB2	35/3	5 HP Waterfall/Display Pump	2100
5800				-	*	-				2100
5800				-	-	*				2100
1600	1 HP WF1 Filter Pump	20/1	CB3	*	-	-	L-CB	15/1 GFI	Submersible Lights	900
1200	Sump Pump	20/1	CB4	-	*	-	CB5	20/1	Sump Pump	1200
1200	Sump Pump	20/1	CB6	-	-	*	CB7	20/1	Convenience Outlet	1800
200	Vault Lighting	10/1	CB8	*	-	-	CB9	20/1	Irrigation Panel	1800
200	Exhaust Fan	10/1	CB10	-	*	-	CB11	20/1	Spare	1800
600	Controls	10/1	CCB	-	-	*	CB12	20/1	Spare	1800
1800	Spare	10/1	CB13	*	-	-	CB14	20/1	Spare	1800
1800	Spare	10/1	CB15	-	*	-				

	Total	Connected kVA	Motor	Other	Total
Phase A	16,000		27.7	16.6	44.3
Phase B	14,100	Demand Factor	1.25	1	
Phase C	13,300	Adjusted kVA	34.6	16.6	51.2
		Adjusted Amps.			142.3



FOUNTAIN PLAN
SCALE: 3/8" = 1'-0"



PUMP VAULT PLAN (B)
SCALE: 3/4" = 1'-0"

- GENERAL NOTES**
- G1. The applicable building code for this project is the Florida Building Code, 7th edition (2003). 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 2017 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-entable potting compound.
 - E7. All control panels shall be UL listed and labeled.
 - E8. Final conduit and conductor sizing shall be by electrical subcontractor.
 - E9. Provide Arc Flash warning labels on Fountain Control Panel per NEC 110.16.
 - E10. Provide 2" conduit with (3) 1/0+G conductors to FPL meter at Southwest Corner of intersection approximately 140' from pump vault.

CONDUIT LEGEND				
CIRCUIT ID	CONDUIT SIZE	WIRE SIZE	BREAKER	NOTES
A	2"	3#1/0+G	MCB	INCOMING, 120/208 VOLT, 3 PHASE
B	1"	3#6+G	CB1	15 HP, 208 VOLT, THREE PHASE PUMP
C	3/4"	3#12+G	CB2	5 HP, 208 VOLT, THREE PHASE PUMP
D	3/4"	2#12+G	CB3	1 HP, 120 VOLT, SINGLE PHASE PUMP
E	3/4"	2#12+G	CCB	120 VAC, 70 WATT SOLENOID VALVE COIL
F	3/4"	3#12+G	CCB	120 VAC, 70 WATT MOTORIZED VALVE
G	3/4"	2#12+G	CB10	120 VAC, 1.4 A EXHAUST FAN
H	3/4"	2#12+G	CB8	120 VAC, 100 WATT VAULT LIGHTING
I	3/4"	2#12+G	CB7	120 VAC, RECEPTACLE
J	3/4"	2#12+G	CB9	IRRIGATION PANEL
K	3/4"	4#12+G	CB4, 6	SUMP PUMPS
L	3/4"	3#14+G	CCB	12 VDC LEVEL CONTROL
M	1"	2#10+G	L-CB	24 VOLT DC LIGHTING
N	3/4"	2#24+ SHIELD	CCB	LOW VOLTAGE

REVISIONS

FREEMPORT FOUNTAINS

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Sanford, FL 32771
(407) 330-1150
www.freemportfountains.com

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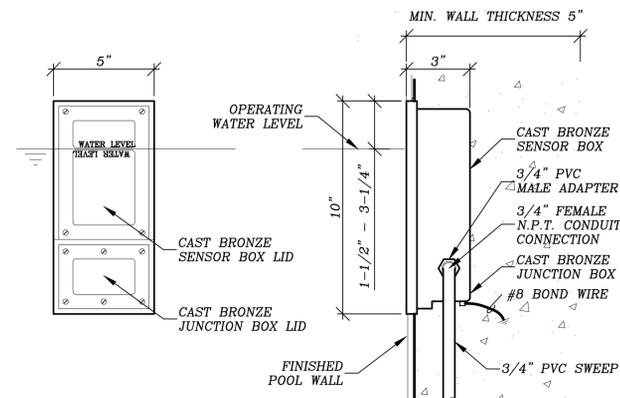
Joel M. Wolcott, P.E.
Florida PE#56165

GATEWAY - GRIFFIN ROUNDABOUT

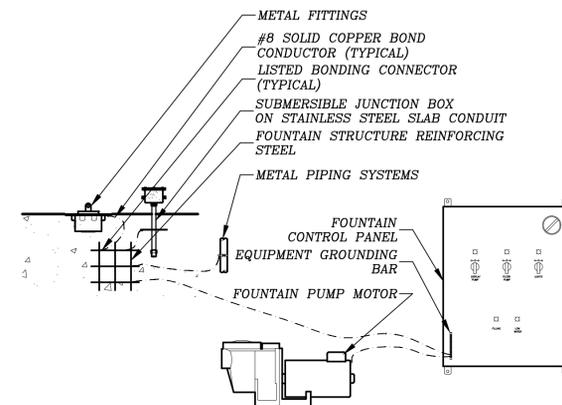
FOUNTAIN ELECTRICAL

JOB #: 1556
DRAWN: JMW
CHECKED: CA
DATE: 6.7.22

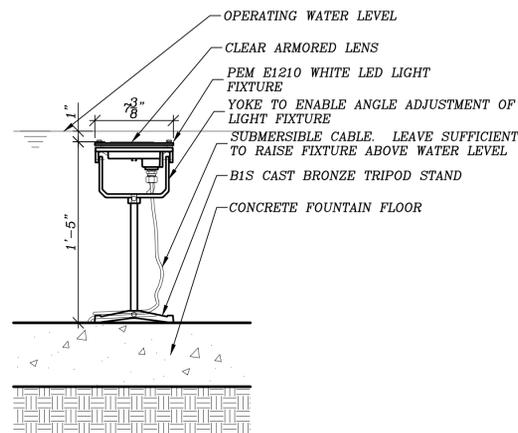
FE1



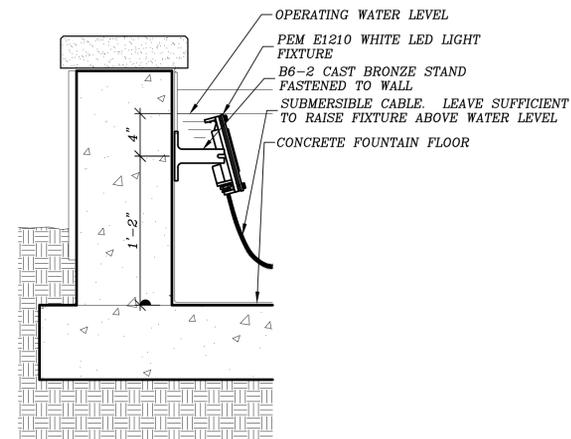
WATER LEVEL SENSOR (E1)
SCALE: 3"=1'-0"



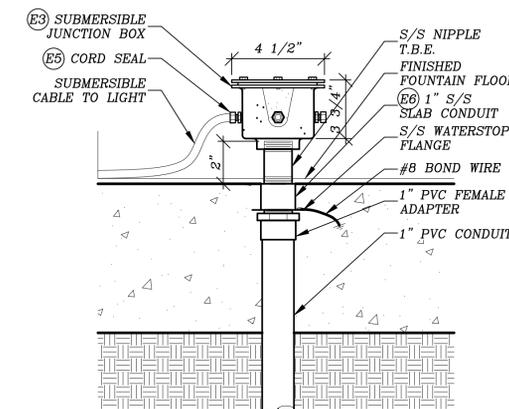
BONDING SCHEMATIC (B)
SCALE: NONE



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

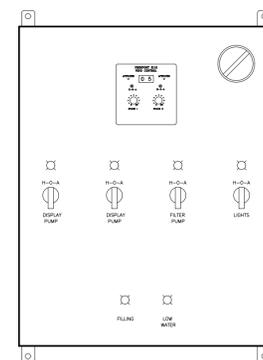


WALL MOUNTED LIGHT FIXTURE (L2)
SCALE: 1 1/2"=1'-0"



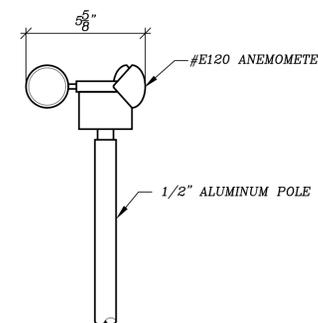
SUBMERSIBLE JUNCTION BOX (E3)(E5)(E6)
SCALE: 3"=1'-0"

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:

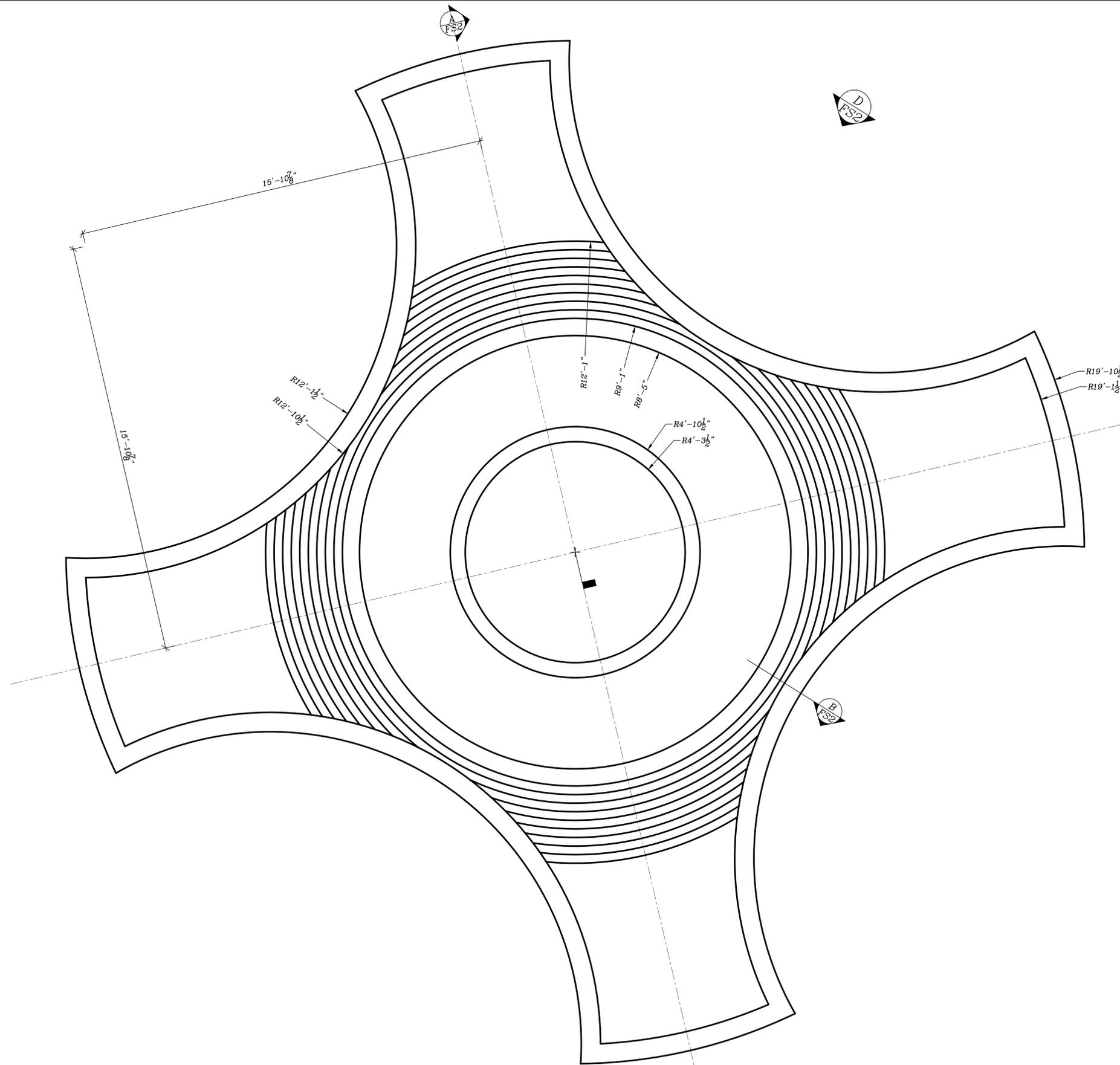


CONTROL PANEL (E7)
SCALE: 1 1/2" = 1'-0"

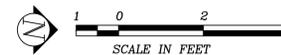
- NEMA 4X fiberglass enclosure properly sized to accommodate all electrical equipment
- U.L. 508A listing and label
- Main circuit breaker for 120/208 volt, three phase incoming power
- Motor circuit breaker and properly sized for two 208 volt, three phase display pump
- Motor circuit breaker and properly sized for one 120 volt, single phase filter pump
- IEC type motor starters for display and filter pumps
- 15 Amp. 120 volt GFCI lighting circuit breakers
- 24 VDC lighting power supplies
- Control circuit breakers
- Isolation control transformer
- IEC type contactor for lights
- Door mounted, hand operated H-0-A switches for the pumps and lights (4 total)
- Door mounted, run lights for the pumps and lights (4 total)
- Water level monitor with fill and low water circuits
- Wind control monitor with digital readout and two set points
- Neutral and ground bars



ANEMOMETER (E8)
SCALE: 3"= 1'-0"



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



STRUCTURAL NOTES

1. The applicable building code for this project is the Florida Building Code 7th edition, (2020).
2. All concrete is to be a minimum of 2,500 psi at 28 days, bearing on solid virgin soil or to be placed on soil compacted to 95% max. density if required by the reviewing agencies.
3. Reinforcing steel shall be ASTM - 615 grade 60, deformed new billet steel conforming to AC 130, AC 1315, AC 1318 and CRSI manual of standard practices latest edition.
4. All continuous vertical and horizontal reinforcing steel in footings, beams and columns shall be lap spliced a minimum of 35 bar diameter or 24", whichever is greater.
5. Concrete cover of reinforcing steel shall be as follows:
 - a. Footings - 3" from bottom and sides and 2" from top.
 - b. Beams - 1-1/2" from bottom, sides and top.
 - c. Slabs on grade - 2" from bottom and 4" from top.
 - d. Others per ACI.

REVISIONS

**FREEPORT
FOUNTAINS**

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EB#27547
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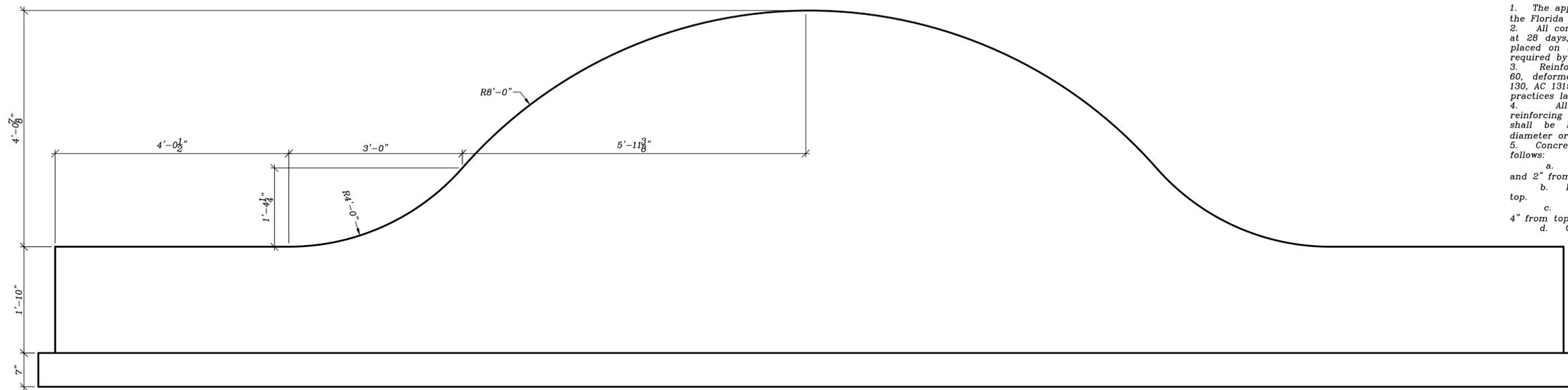
**GATEWAY - GRIFFIN
ROUNDAABOUT**

**FOUNTAIN
STRUCTURAL**

JOB #: 1556
DRAWN JMW
CHECKED CA
DATE 6.7.22

BOJACK ENGINEERING SERVICES, INC
CERT. OF AUTHORIZATION NO. CA31436
PO BOX 940104
MAITLAND, FL 32794-0104
MICHAEL J. BOJACK, P.E.
FL LICENSE #37804

FS1

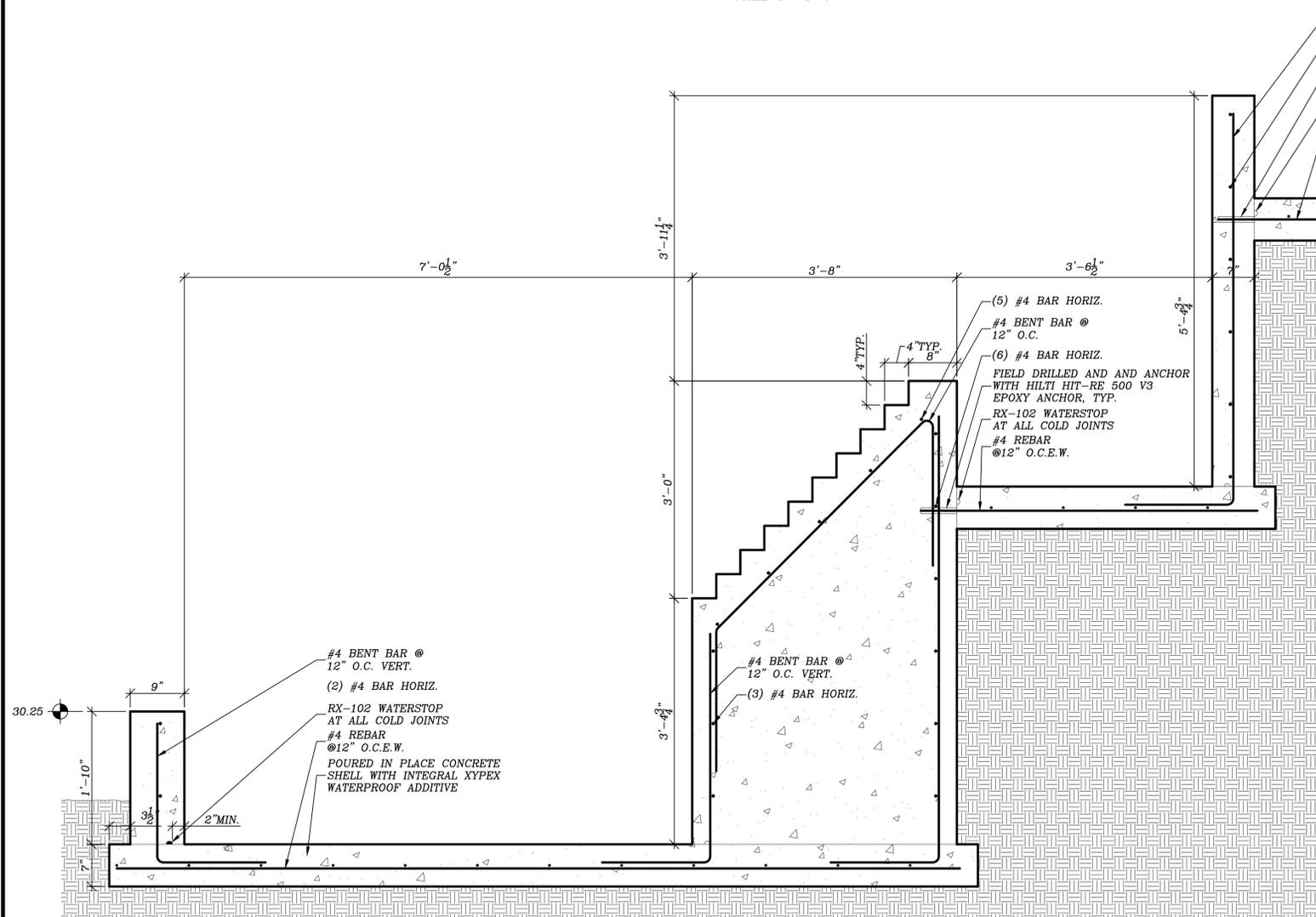


STRUCTURAL NOTES

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 - c. Slabs on grade - 2" from bottom and 4" from top.
 - d. Others per ACI.

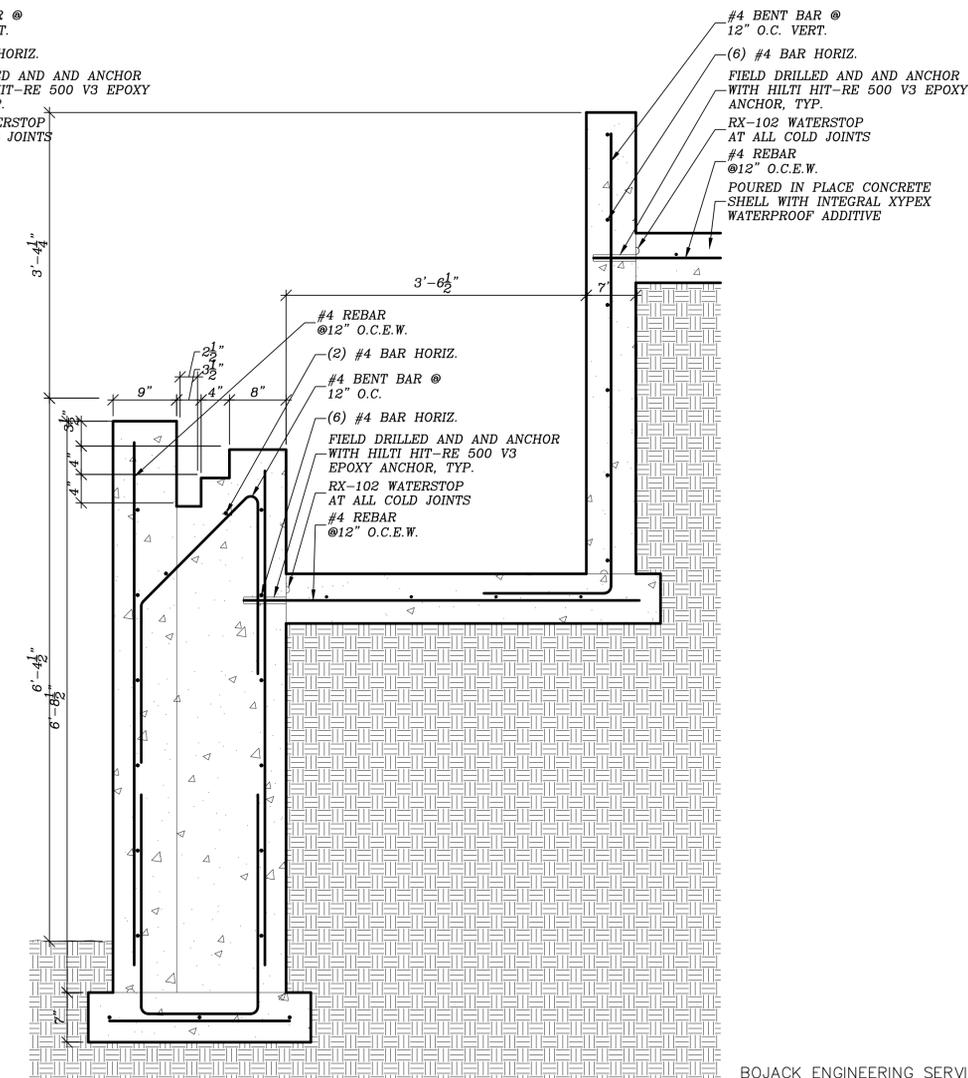
FOUNTAIN WALL FLATTENED ELEVATION
SCALE: 1" = 1'-0"

(D)



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

(A)



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

(B)

- #4 BENT BAR @ 12" O.C. VERT.
- (6) #4 BAR HORIZ.
- FIELD DRILLED AND AND ANCHOR WITH HILTI HIT-RE 500 V3 EPOXY ANCHOR, TYP.
- RX-102 WATERSTOP AT ALL COLD JOINTS
- #4 REBAR @12" O.C.E.W.

- #4 REBAR @12" O.C.E.W.
- (2) #4 BAR HORIZ.
- #4 BENT BAR @ 12" O.C.
- (6) #4 BAR HORIZ.
- FIELD DRILLED AND AND ANCHOR WITH HILTI HIT-RE 500 V3 EPOXY ANCHOR, TYP.
- RX-102 WATERSTOP AT ALL COLD JOINTS
- #4 REBAR @12" O.C.E.W.

- #4 BENT BAR @ 12" O.C. VERT.
- (6) #4 BAR HORIZ.
- FIELD DRILLED AND AND ANCHOR WITH HILTI HIT-RE 500 V3 EPOXY ANCHOR, TYP.
- RX-102 WATERSTOP AT ALL COLD JOINTS
- #4 REBAR @12" O.C.E.W.
- POURED IN PLACE CONCRETE SHELL WITH INTEGRAL XYPEX WATERPROOF ADDITIVE

BOJACK ENGINEERING SERVICES, INC
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MAITLAND, FL 32794-0104
MICHAEL J. BOJACK, P.E.
FL LICENSE #37804

REVISIONS

NO.	DESCRIPTION

FREEPORT
FOUNTAINS

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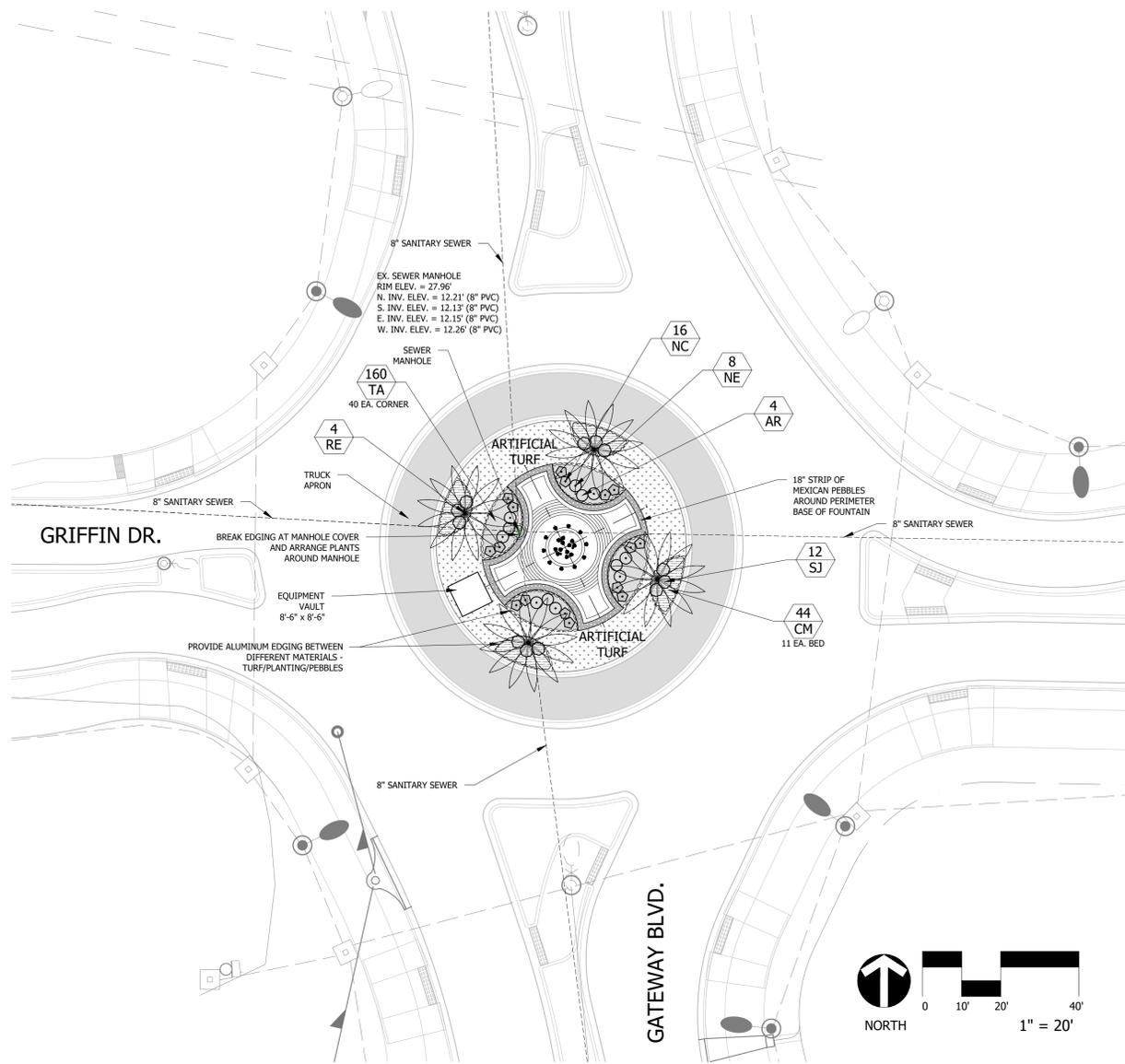
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GATEWAY-GRIFFIN
ROUNDBOUT

FOUNTAIN
STRUCTURAL

JOB #:	1556
DRAWN	JMW
CHECKED	CA
DATE	6.7.22

FS2



LANDSCAPE PLAN

SCALE: 1" = 20'

PLANT & MATERIALS SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SPECIFICATION	QUANTITY	UNIT	NATIVE
TREES & PALMS						
RE	Roystonea elata	Royal Palm	5-6' GW, heavy trunk, full head	4	EA	YES
SUBTOTAL TREES & PALMS				4		
SHRUBS & GROUNDCOVERS						
AR	Alcantarea "Regina"	Silver Bromeliad	9" pot, 24" ht x 20" spr, full	4	EA	NO
NE	Neoregelia "Sunshine"	"Sunshine" Bromeliad	8" pot, 18" ht x 18" spr, full	8	EA	NO
NC	Neoregelia "Cruenta"	"Cruenta" Bromeliad	6" pot, 14" ht x 12" spr, full	16	EA	NO
CM	Carissa macrocarpa "Emerald Blanket"	Dwarf Natal Plum "Em. Blanket"	3 gal, 12" x 15", full, 30" oc	44	EA	NO
SJ	Stachytarpheta jamaicensis	Native Blue Porterweed	3 gal, 15" x 15", full, 3' o.c.	12	EA	YES
TA	Trachelospermum asiaticum "minima"	Asian Jasmine	1 gal, 4" x 6", full, 18" o.c.	160	EA	NO
SUBTOTAL SHRUBS & GROUNDCOVERS				244		
MISCELLANEOUS						
TURF	Artificial Turf appropriate for Landscape application	Grass!365 Wave60 or equal	Provide and prepare base material and install artificial turf per manufacturer's recommendations.	1,460	SF	N/A
N/A	Filter Fabric		Mirafli filter Fabric, non-woven, light grey color. To be used under the artificial turf base material and under the Mexican pebbles	1,725	SF	N/A
EDGING	Aluminum Edging	PermaLoc Aluminum Edging	CleanLine 1/8" x 5.5" mill finish	340	LF	N/A
N/A	Mexican Pebbles, grey		Grey Mexican Pebbles, 2-3", install at 3" depth over filter fabric, 255 SF	3.2	TONS	N/A
N/A	Landscape Planting soil		Planting soil to be a combination of topsoil and organic composted soil, 3" depth all planting areas	7	CY	N/A
Mulch	Coco Brown Mulch	Shredded Mulch, Coco Brown, 772 sf	3" depth, mulch all planting beds and tree rings.	100	BAGS	N/A
SUBTOTAL MISCELLANEOUS						

NOTE: Quantities shown for Miscellaneous items reflect the finished product, and do not have a factor applied for waste, cutting, overlap or fluff. Contractor is to allow sufficient factors for the various products.

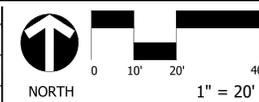


IN COORDINATION WITH:
Cardno
 1821 VICTORIA AVENUE
 FORT MYERS, FL 33901

PREPARED FOR:
 LEE COUNTY
 DEPARTMENT OF
 TRANSPORTATION

GATEWAY BOULEVARD AT GRIFFIN DRIVE
 ROUNDABOUT FOUNTAIN
 LEE COUNTY, FL

REV	DATE	DESCRIPTION	PROJECT #:



LANDSCAPE PLAN
 FINAL PLANS

DAYNA L. FENDRICK, RLA #0001224

SHEET #
LA-1

PLANTING NOTES

- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASES. ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE TO FLORIDA NO. 1 GRADE, ACCORDING TO THE "GRADES AND STANDARDS FOR NURSERY PLANTS", PUBLISHED BY FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. PLANT MATERIALS IN SOME INSTANCES EXCEED NO. 1 GRADE IN ORDER TO MEET THE MINIMUM REQUIREMENTS OF THIS PROJECT.
- THE OWNER, AGENT TENANT OR PARTY IN CONTROL OF THE PROPERTY IS TO MAINTAIN THE SITE LANDSCAPING IN ACCORDANCE WITH THE LOCAL JURISDICTION'S LANDSCAPE CODE. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL CONSTITUTE A VIOLATION OF THE LOCAL JURISDICTION'S CODE OF ORDINANCES, AND WOULD SUBJECT THE AFOREMENTIONED PARTY TO ANY PENALTY IMPOSED BY LAW.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTS MEETING SPECIFICATION AS NOTED PRIOR TO INSTALLATION. CONTRACTOR SHALL IMMEDIATELY REMOVE ALL PLANT MATERIAL THAT DOES NOT CONFORM TO SPECIFICATIONS.
- ALL ROOTBALLS SHALL CONFORM TO THE SIZE STANDARDS SET FORTH IN "AMERICAN STANDARDS FOR NURSERY STOCK".
- ALL PLANT MATERIAL SHALL BE PROTECTED DURING TRANSPORT AND DELIVERY TO JOB SITE WITH SHADE CLOTH OR OTHER ACCEPTABLE MEANS OF WINDBURN PREVENTION.
- CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION PRIOR TO INITIATING PLANTING INSTALLATION. ALL EXISTING PLANTING SHALL REMAIN INTACT AND UNDISTURBED UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED, AND MEET ALL REQUIREMENTS SPECIFIED.
- PRIOR TO CONSTRUCTION, THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING CONSTRUCTION. SHOULD THE LANDSCAPE CONTRACTOR CAUSE DAMAGE TO ANY UTILITIES, NECESSARY REPAIRS SHALL BE MADE AS QUICKLY AS PRACTICABLE, AT LANDSCAPE CONTRACTORS EXPENSE.
- INSTALLATION - ALL PLANT MATERIAL SHALL BE INSTALLED IN A SOUND, WORKMANLIKE MANNER AND ACCORDING TO ACCEPTED GOOD PLANTING PROCEDURES WITH THE QUALITY OF PLANT MATERIALS AS HEREINAFTER DESCRIBED. ALL ELEMENTS OF LANDSCAPING SHALL BE INSTALLED SO AS TO MEET ALL APPLICABLE ORDINANCES AND CODE REQUIREMENTS.
- TYPICALLY, SHRUB AND GROUNDCOVER PLANTINGS ARE SHOWN AS MASS PLANTING BEDS. PLANTS SHALL BE PLACED ON A TRIANGULAR SPACING CONFIGURATION (STAGGERED SPACING) AS SHOWN IN THE PLANTING DETAILS. PLANT CENTER TO CENTER DIMENSIONS (O.C.) ARE LISTED ON THE PLANT LIST.
- CONTRACTOR SHALL ASSURE DRAINAGE AND PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL. CONTRACTOR SHALL FILL ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE THAT PROPER DRAINAGE AND PERCOLATION IS AVAILABLE. CORRECT IF REQUIRED TO ASSURE PERCOLATION. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL PLANTS LOST DUE TO INADEQUATE DRAINAGE CONDITIONS.
- PLANT MATERIALS MUST BE INSTALLED IN SOIL CONDITIONS THAT ARE CONDUCIVE TO THE PROPER GROWTH OF THE PLANT MATERIAL. LIMEROCK LOCATED WITHIN PARKING ISLANDS AND OTHER PLANTING AREAS MUST BE REMOVED AND REPLACED WITH NATIVE OR GROWING QUALITY SOIL BEFORE PLANTING.
- TREES GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE THE GROW BAG REMOVED ENTIRELY PRIOR TO PLANTING .
- BALLED AND BURLAPPED MATERIAL SHALL HAVE THE TOP ONE HALF (1/2) OF THE BURLAP AROUND THE BASE OF THE TRUNK CUT AND PULLED BACK. DO NOT REMOVE BURLAP. WIRE CAGES, STRAPS, ETC. MUST BE CUT AND REMOVED PRIOR TO INSTALLATION. ALL PLASTIC WRAPPING SHALL BE REMOVED PRIOR TO INSTALLATION.
- CONTRACTOR TO REPLACE REJECTED PLANT MATERIAL WITHIN ONE (1) WEEK OF NOTICE FROM THE OWNER OR LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANTS LIST, GENERAL NOTES AND THE PLANTING SPECIFICATIONS FOR COMPLETE LANDSCAPE PLANTING INSTRUCTIONS.
- FERTILIZATION

PALMS 13-3-13 PLUS MINOR ELEMENTS - SLOW RELEASE 1/2 LB FERTILIZER PER 1/2 INCH CALIPER

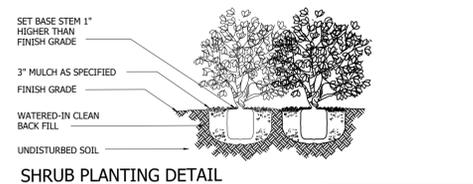
SHRUBS AND GROUNDCOVERS 8-10-10 PLUS MINOR ELEMENTS - SLOW RELEASE 1/2 LB FERTILIZER PER 100 FT²

TREES 8-6-6 PLUS MINOR ELEMENTS - SLOW RELEASE 1/2 LB FERTILIZER PER 1/2 INCH CALIPER

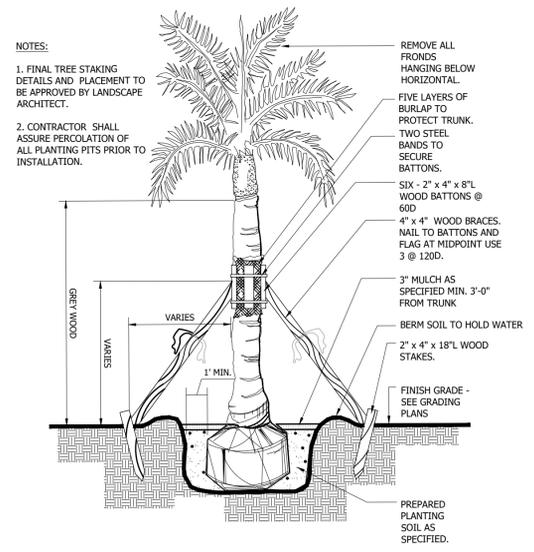
TURF 16-4-8 PLUS MINOR ELEMENTS - SLOW RELEASE 1 LB FERTILIZER PER 1000 FT²

* THE COST FOR LANDSCAPE FERTILIZER AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE PER PLANT PRICE.

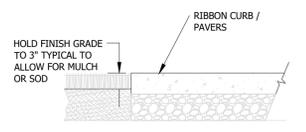
- SOIL PREPARATION AND SOIL MIX
 - APPLY ROUNDUP (MANUFACTURED BY MONSANTO CORP.) OR APPROVED HERBICIDE EQUAL ACCORDING TO MANUFACTURER'S RATE AND SPECIFICATION WITHIN LIMITS OF ALL AREAS TO BE PLANTED. PROTECT EXISTING PLANTS TO REMAIN FROM OVERSPRAY OR SPRAY WITHIN ROOT ZONE. CONTRACTOR TO ENSURE TOTAL WEED ERADICATION.
 - BEFORE REPLACING TOPSOIL, RAKE SUBSOIL SURFACE CLEAR OF STONES (1 INCH DIAMETER AND LARGER), DEBRIS, RUBBISH, AND REMAINING FROM REMOVED PLANT MATERIAL.
 - SCARIFY SUBSOIL TO A DEPTH OF 3 INCHES.
 - CONTRACTOR TO APPLY "RONSTAR" OR APPROVED PRE-EMERGENT HERBICIDE IN ACCORDANCE WITH MANUFACTURER'S RATE AND SPECIFICATIONS.
 - PLANTING SOIL MIX FOR TREES, SHRUBS, AND GROUNDCOVERS SHALL CONSIST OF A THOROUGHLY BLENDED MIXTURE OF:
 - 50% TOPSOIL / EXISTING SOIL IF ACCEPTABLE
 - 50% COMPOSTED SOIL AMENDMENTS, WHICH SHALL CONSIST OF PEAT, COMPOSTED PINE BARK AND HARDWOOD FINES
 PROVIDE THE FOLLOWING AMOUNT OF COMPOSTED SOIL AMENDMENTS PER PLANT:
 - 13 CF / LARGE TREE (>16')
 - 9 CF / SMALL TREE OR PALM (10-16')
 - 6 CF / MEDIUM TREE OR PALM (<10')
 - 1 CF / 3 GAL SHRUB OR LARGER
 - 5 CF / 1 GAL GROUNDCOVER
 - 6" DEPTH ALL ANNUAL BEDS
- CONTRACTOR TO SUBMIT LABORATORY SOIL TESTS OF THE SOIL MIXTURE FOR TEST RESULT REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE TO AMEND THE SOILS PER THE TESTING RESULTS AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- COMPOST MIX SHALL BE FREE OF DELETERIOUS MATERIALS THAT WOULD BE HARMFUL TO PLANT GROWTH, SHALL BE FREE OF NEMATODES, SHALL BE OF UNIFORM QUALITY AND SHALL HAVE A PH VALUE BETWEEN 6.5 AND 7.0 (AS DETERMINED IN ACCORDANCE WITH ASTM E70). FLORIDA PEAT SHALL BE STERILIZED TO MAKE FREE OF ALL VIABLE NUT GRASS AND OTHER UNDESIRABLE WEEDS.
- TOPSOIL SHALL BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL BE OF UNIFORM COMPOSITION THROUGHOUT, WITH ADMIXTURE OF SUBSOIL. IT SHALL BE FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS, AND OTHER EXTRANEIOUS MATTER. SPREAD TOPSOIL MIXTURE TO MINIMUM DEPTH OF 3 INCHES THROUGHOUT ALL AREAS AND 6 INCHES IN ALL SHRUB AND GROUNDCOVER BEDS. REMOVE ALL ROCKS AND OTHER OBJECTS OVER 1 INCH IN DIAMETER.
- SMOOTH ALL PREPARED TOPSOIL TO FOUR (4) INCHES BELOW TOP OF SURROUNDING PAVEMENT EDGES. FINISH GRADE ALL PREPARED TOPSOIL AREAS TO A SMOOTH, EVEN SURFACE ASSURING POSITIVE DRAINAGE AWAY FROM THE STRUCTURES AND AND ELIMINATE ANY LOW AREAS NOT REQUIRED BY THE DOCUMENTS WHICH MAY COLLECT WATER.
- SMOOTH TOPSOIL MIXTURE TO 6 INCHES BELOW GRADE IN AREAS TO BE SODDED.
- TOPSOIL SHALL NOT BE EXTREMELY ACIDIC OR ALKALINE, NOR CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. THE PH SHALL BE IN THE RANGE OF 6.5 TO 7.0. IF NECESSARY, THE CONTRACTOR TOPSOIL PH SHALL APPLY THE APPROPRIATE SOIL AMENDMENTS ADJUSTING SOIL PH TO ASSURE A PH RANGE OF 6.5 TO 7.0.
- GUYING / STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES ETC., TO PENETRATE OUTER SURFACE OF TREE OR PALM. TREES OR PALMS REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED.
- CONTRACTOR SHALL MULCH ALL PLANT MATERIAL THROUGHOUT AND COMPLETELY TO A THREE (3) INCH DEPTH WITH CLEAN, WEED FREE MULCH AS SPECIFIED.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, IN FULL ALL PLANTING AREAS (INCLUDING WATERING, SPRAYING, MULCHING, MOWING, FERTILIZING, ETC.) UNTIL THE JOB IS ACCEPTED BY THE OWNER.
- CONTRACTOR TO GUARANTEE PLANT MATERIAL FOR A 12 MONTH PERIOD. THE CONTRACTOR SHALL VISIT THE SITE ONCE A MONTH TO REVIEW THE STATUS OF MAINTENANCE BY THE OWNER AND ADVISE IN WRITING ANY ACTIVITIES OR DISCREPANCIES THAT ARE POTENTIALLY DETRIMENTAL TO THE LANDSCAPE INSTALLATION OR MAY VOID WARRANTY.
- ALL PLANT MATERIAL SHALL BE OF FLORIDA NO. 1 OR BETTER QUALITY AT TIME OF INSTALLATION AND SHALL BE MAINTAINED IN THIS SAME CONDITION UNTIL FINAL ACCEPTANCE. DECLINE IN CONDITION OF PLANT MATERIAL DURING THE MAINTENANCE PERIOD SHALL BE GROUNDS FOR REJECTION AND REPLACEMENT.
- XERISCAPE PRINCIPLES AS OUTLINED IN THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT XERISCAPE PLANT GUIDE 2 SHALL BE APPLIED THROUGHOUT LANDSCAPE INSTALLATION AND MAINTENANCE.



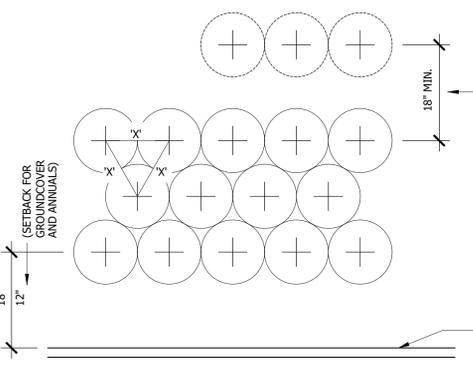
SHRUB PLANTING DETAIL N.T.S.



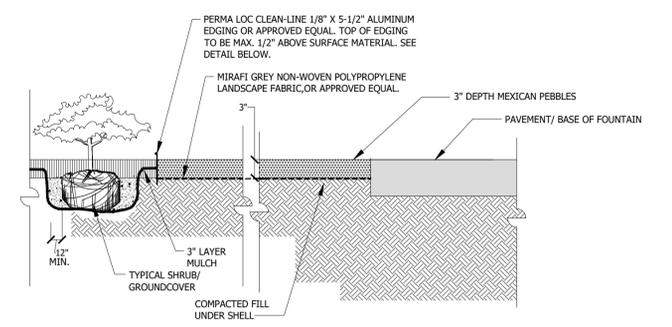
ROYAL PALM PLANTING DETAIL N.T.S.



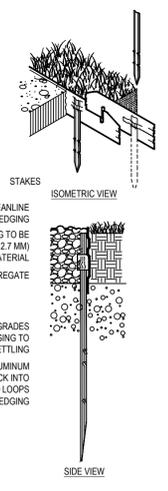
SOD/MULCH AT PAVEMENT EDGE N.T.S.



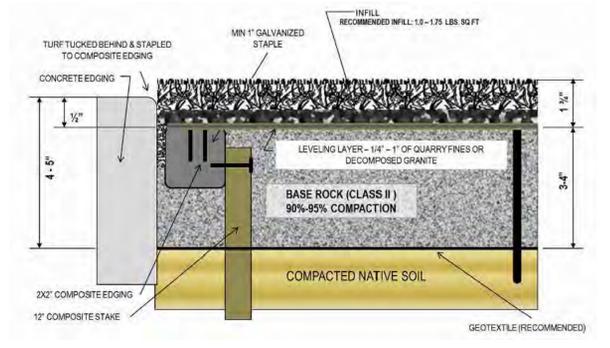
TYPICAL PLANT SPACING N.T.S.



STONE / EDGING DETAIL N.T.S.



CLEAN LINE COMMERCIAL GRADE LANDSCAPE EDGING PLANTING BED EDGING DETAIL - BED MATERIAL AND TURF N.T.S.



- NOTES:
- Excavate 3-5 inches of the native soil, an optional weed barrier may be laid down on top of the excavated area.
 - Fill the excavated area with a crushed rock base to create a sub-base. The sub-base should be approximately 3-4 inches deep and compacted to 95% using a vibratory plate compactor. Leave a space of 2.5 inches below the landscape edge. You will add more sub-base after installing bend-a-board.
 - Unroll grass and allow it to be exposed to sunlight for at least two hours. This will help the backing to become more pliable and for the grass blades to stand up straight.
 - Lay the bend-a-board around the entire perimeter, leaving about 1/4 inch between your concrete edge and the bend-a-board itself, and about 1/2 inch before reaching the height of the outer perimeter. The bend-a-board is held in place with 12 inch composite stakes, five stakes per bend-a-board, held together by nailing or screwing the stake into the bend-a-board.
 - After the bend-a-board is in place, continue to evenly lay out the crushed rock base within the bend-a-board perimeter, leaving 1/4 inch before reaching the top of the bend-a-board, compacting this down as you go.
 - Use about 1/4 inch of decomposed granite to level the area, be sure to compact this evenly. Your sub-base and the bend-a-board should now be flush, about 1/2 inch below the hard concrete edge.
 - A weed barrier may be laid down on top of the sub-base. If adding a weed barrier, overlap the edges and nail into place using 5 inch, non-galvanized nails. Trim the edges to fit the project area.
 - Now it's time to install your grass. If your installation requires seaming, be sure to use seam tape and glue to attach the two pieces. Secure the seam into place with 5 inch, non-galvanized nails every 6 inches on both sides (staggered by 3 inches on either side) of the seam. Secure the turf by using 5 inch, non-galvanized nails every 3-6 inches around the perimeter, about 1/2 inch away from the hard concrete edge, as well as every 3 square feet within the interior.
 - Now that the grass is laid out flat and attached, use a drop spreader to evenly spread 1-2 pound(s) of *infill* per square foot, raking it into the thatch of the turf.

ARTIFICIAL TURF DETAIL N.T.S.



PREPARED FOR:
LEE COUNTY
DEPARTMENT OF
TRANSPORTATION

GATEWAY BOULEVARD AT GRIFFIN DRIVE
ROUNDAABOUT FOUNTAIN
LEE COUNTY, FL

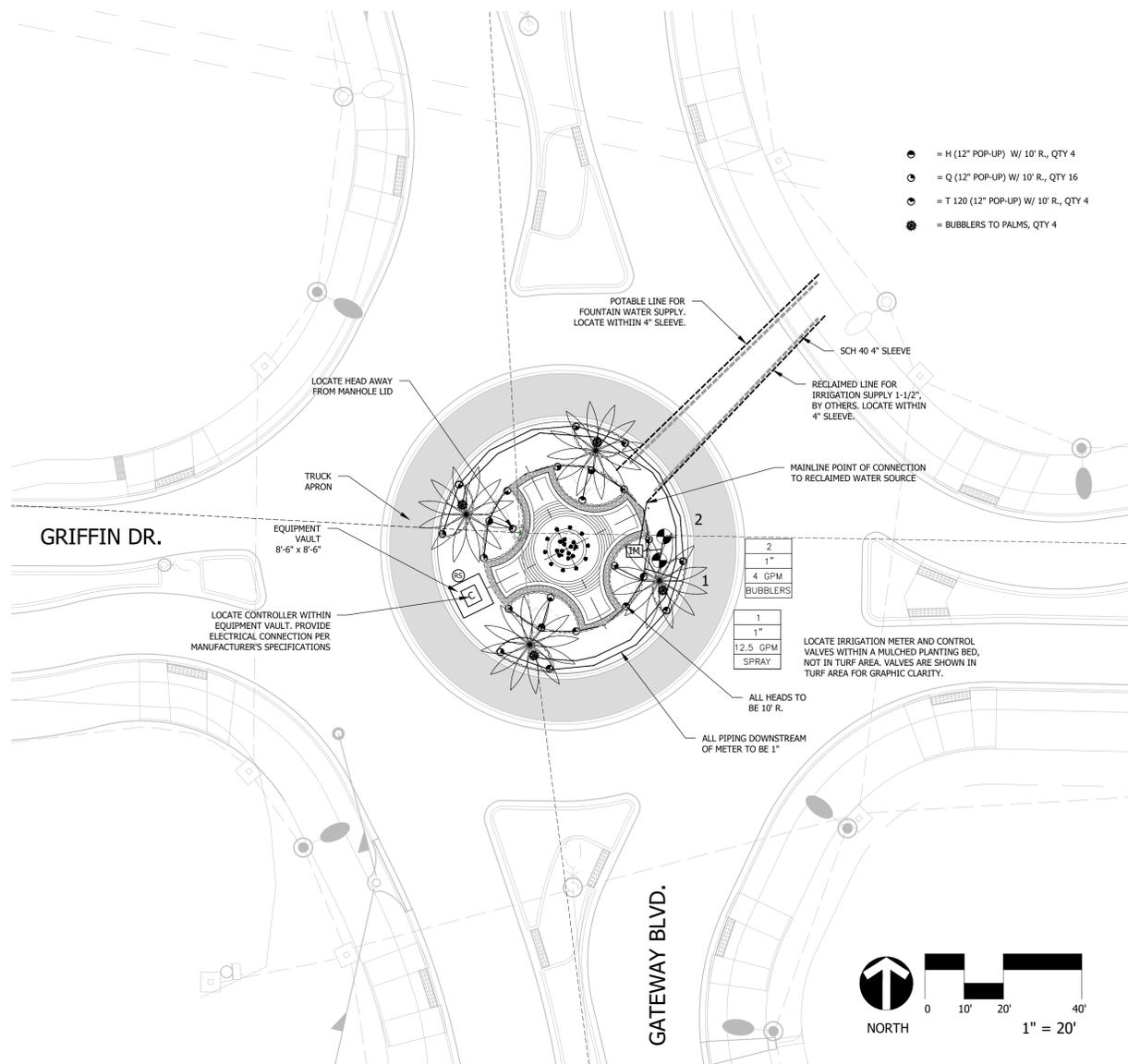
REV	DATE	DESCRIPTION

SCALE:	
DATE:	JULY 2022
PROJECT #:	

PLANTING NOTES
& DETAILS
FINAL PLANS

DAYNA L. FENDRICK, RLA #0001224

SHEET #
LA-2

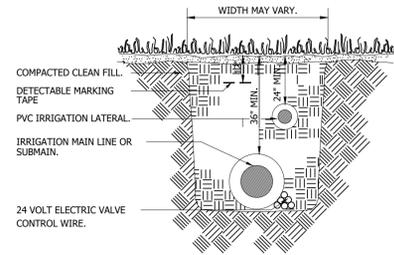


**IRRIGATION ELEMENTS
SPECIFICATION LEGEND**

SYMBOL	DESCRIPTION
	IRRIGATION WATER METER: SOURCE TO BE RECLAIMED WATER LINE.
	IRRIGATION CONTROLLER: RAINBIRD ESP-ME3. LOCATE THE CONTROLLER WITHIN THE EQUIPMENT VAULT. REFER TO MANUFACTURER SPECIFICATIONS SPECIFIC INSTALLATION DIRECTIONS. RAINSENSOR TO BE RAINBIRD WR-2 WIRELESS, LOCATE OUTSIDE VAULT.
	IRRIGATION MAIN SHUT-OFF/FILTER SERVICE VALVE: 1.5" SCH 40 PVC SOLVENT WELD VALVES. INSTALL AT MAIN LINE LOCATION SHOWN PLUS UPSTREAM FROM OF FILTER
	IRRIGATION SLEEVES: 4"IS, 4" SCH 40 PVC FOR MULTIPLE LINES CROSSINGS; 2"IS, 2" SCH 40 PVC FOR SINGLE LINES & CONTROL WIRES CROSSINGS.
	IRRIGATION MAIN: 1120-1220 1-1/2" CLASS 200 PVC SOLVENT WELD PIPE WITH SCH 40 PVC INTERCONNECTING FITTINGS, PANTONE PURPLE 522C. INSTALLATION DEPTH, 36"±.
	IRRIGATION LATERAL LINE: 1120-1220 CLASS 200 PVC SOLVENT WELD PIPE WITH SCH 40 PVC INTERCONNECTING FITTINGS, PANTONE PURPLE 522C. INSTALLATION DEPTH, 24".
	PROPOSED IRRIGATION ZONE CONTROL VALVE: HUNTER ICV-101G, ICV SERIES 1.0" ELECTRIC SOLENOID VALVE WITH FLOW CONTROL. INSTALL WITHIN A JUMBO VALVE BOX. REFER TO INSTALLATION DETAIL FOR OTHER COMPONENTS AND ASSEMBLY ILLUSTRATION.
	PROPOSED 12" HIGH POP-UP SPRAY HEAD: HUNTER PROS-12, PRO-SPRAY SERIES 12" REFER TO PLAN FOR NOZZLE SIZE AND COVERAGE PATTERN.
	PROPOSED TREE/PALM BUBBLER HYDRANT: RAINBIRD/HUNTER SR-00, SHRUB RISER NOZZLE ADAPTER W/ PC UMBRELLA BUBBLER NOZZLE. PROVIDE ONE UNIT PER DESIGNATED TREE/PALM. 1.0 GPM
	TBD: TO BE DETERMINED BY IRRIGATION CONTRACTOR PRIOR TO SUBMITTING BID(S).
	PROPOSED VALVE/CONTROLLER STATION NUMBER.
	PROPOSED VALVE SIZE.
	PROPOSED ZONE ESTIMATED FLOW DEMAND.
	PROPOSED ZONE IRRIGATION METHOD & MEDIA.

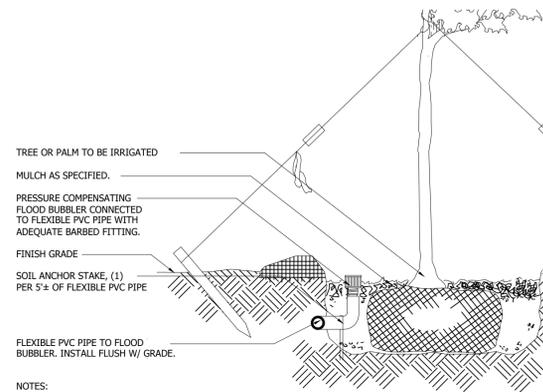
IRRIGATION PLAN

SCALE: 1" = 20'



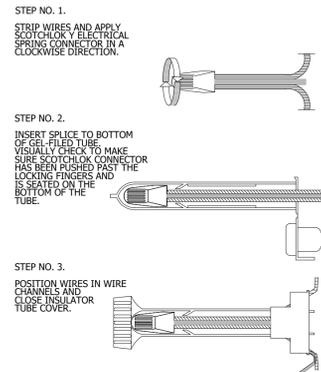
NOTES:
 ALL TRENCHING DEPTHS SHOWN ARE MINIMUM. IN THE EVENT THAT MINIMUM TRENCHING DEPTHS ARE NOT MET, THE TRENCHES SHALL BE RE-EXCAVATED.
 DEPTH MEASUREMENTS ARE TO BE DONE FROM FINISH GRADE TO TOP OF PIPE.
 PROVIDE A 4" MINIMUM VERTICAL SEPARATION BETWEEN MAIN LINE(S) AND LATERAL LINE(S).
 PIPE PULLING THROUGH UN-TRENCHED SOIL IS NOT ALLOWED UNDER ANY CIRCUMSTANCE.

TYPICAL TRENCHING DETAIL
 N.T.S.

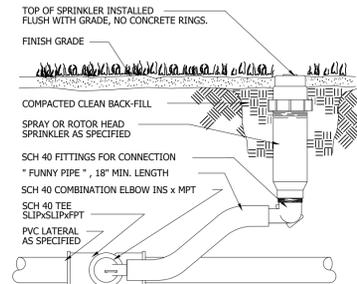


NOTES:
 REFER TO PLAN OR BUBBLER LEGEND FOR BUBBLER QUANTITIES & NOZZLE SIZE PER TREE/PALM.
 BUBBLER(S) IS/ARE TO BE INSTALLED ADJACENT TO ROOTBALL PERIMETER.
 DO NOT INSTALL BUBBLER ON TOP OF ROOTBALL, NEXT TO TRUNK; INSTALL AT EDGE OF ROOTBALL.
 ON SLOPING GROUNDS, INSTALL BUBBLER(S) DIRECTLY UPHILL FROM THE TREE/PALM ROOTBALL.

IRRIGATION FLOOD BUBBLER FOR TREES OR PALMS INSTALLATION DETAIL
 N.T.S.

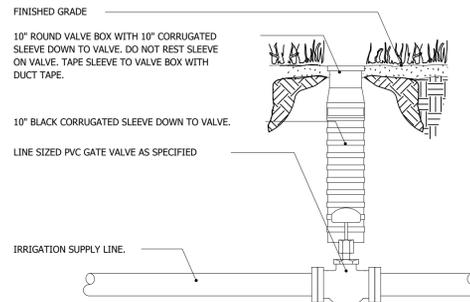


24 VOLT WIRE WIRE CONNECTION DETAIL
 N.T.S.

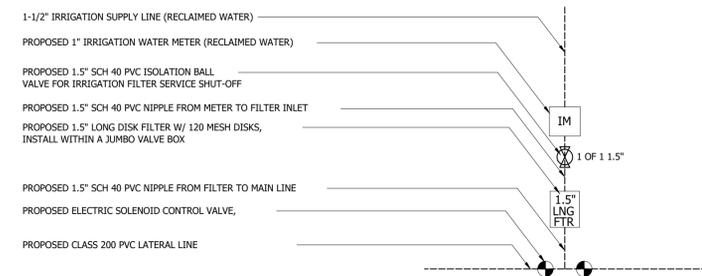


NOTES:
 NO SPRINKLER HEADS SHALL OCCUR WITHIN 9" OF SIDEWALKS, PAVED AREAS, BEDLINES, AND 15" FROM BUILDINGS, OR OTHER STRUCTURES.
 INSTALLATION OF SPRINKLERS WITH THE TOP EXPOSED ABOVE GRADE ADJACENT TO A PAVED SURFACE IS NOT RECOMMENDED BECAUSE THE SPRINKLER WITH THE TOP EXPOSED ABOVE GRADE IS CONSIDERED A TRIPPING LIABILITY HAZARD AND IS ALSO SUBJECT TO MOWER DAMAGE.

POP-UP SPRAY HEAD FLUSH W/ GRADE INSTALLATION DETAIL
 N.T.S.

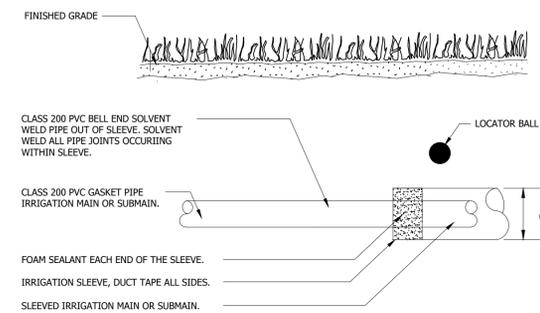


MAIN LINE ISOLATION MANUAL GATE VALVE INSTALLATION DETAIL
 N.T.S.

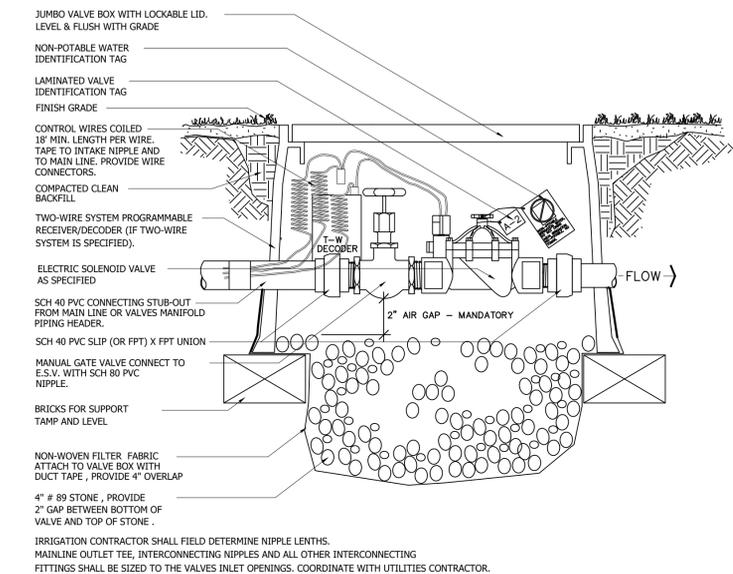


NOTES:
 THE IRRIGATION FILTER, ISOLATION VALVE AND IRRIGATION FILTER ARE NOT SHOWN IN PLAN DUE TO LIMITED SPACE AND GRAPHIC CLARITY COMMUNICATION.
 THE FILTER SHALL BE INSTALLED WITHIN THE JUMBO VALVE BOX IN A NEAT ARRANGEMENT THAT ENABLES MAINTENANCE PERSONNEL TO SERVICE THE FILTER WITH CARTRIDGE CASING REMOVAL AND RE-ATTACHMENT EASE.
 PROVIDE FILTER FABRIC AND GRAVEL AT ALL VALVE BOXES; AND 10" CORRUGATED PLASTIC SLEEVES AT ALL PVC BALL VALVE BOXES. PVC BALL VALVE BOXES SHALL BE 10" ROUND BOXES.

IRRIGATION POINT OF CONNECTION PLAN VIEW SCHEMATIC DETAIL
 N.T.S.



IRRIGATION SLEEVE SEALING DETAIL
 N.T.S.



ELECTRIC SOLENOID VALVE WITH MANUAL GATE VALVE INSTALLATION DETAIL
 N.T.S.

SCALE:	
DATE:	JULY 2022
PROJECT #:	
REV	DATE DESCRIPTION