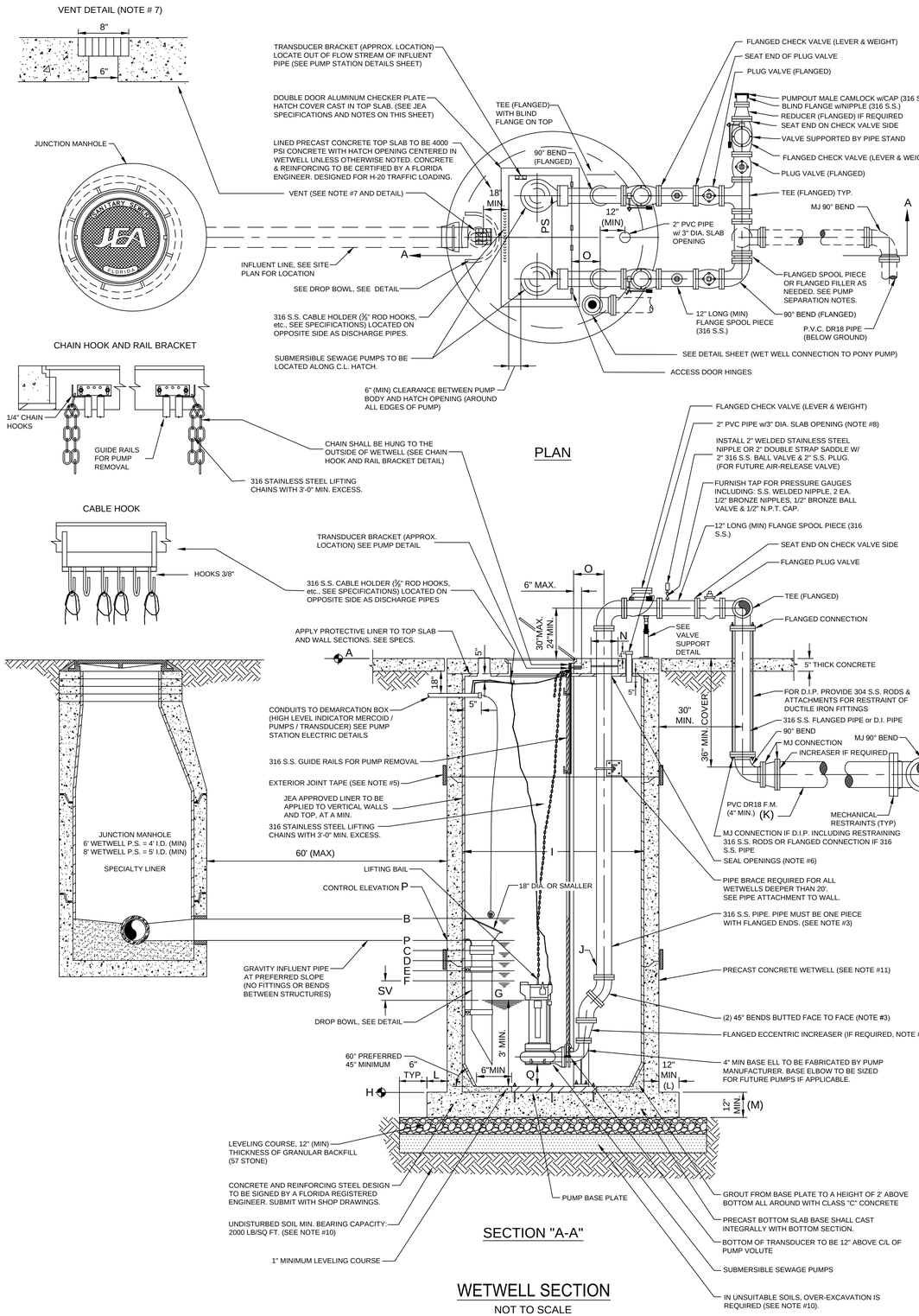


PUMP STATION INFORMATION
SCHEDULE OF ELEVATIONS

PUMP STATION STREET ADDRESS	TOP ELEV (NOTE 9)	MERCOID LEVEL	ALARM ELEVATION	LEFT BLANK	LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION	BOTTOM ELEVATION	WET WELL DIA.	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE (SEE TABLE BELOW)
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
	R + 1.0	P + 0.5'	P - 0.5'		P - 1.0'	P - 1.5'	F - SV	G - 3'	---	---	---	---	---	---	---	---	---	---	
	---	---	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

	ALL PUMPS			
PUMP MANUFACTURER	WILO/EMU	FLYGT	HYDROMATIC	KSB
MODEL	---	---	---	---
IMPELLER	---	---	---	---
PUMP DISCHARGE	---	---	---	---
MOTOR (RPM)	---	---	---	---
HORSEPOWER (HP)	---	---	---	---
PHASE/VOLT/AMPS (NOTE #3)	---	---	---	---
AIC (SEE NOTE #4)	---	---	---	---
DESIGN POINT (GPM) @ TDH (FT)	---	---	---	---
RUNOUT POINT (GPM) @ TDH (FT)	---	---	---	---
EMERGENCY MAIN	---	---	---	---
NORMAL SERVICE MAIN	---	---	---	---
CB #1 TO PUMP NO. 1	---	---	---	---
CB #2 TO PUMP NO. 2	---	---	---	---
CONTROL PANEL MCB	---	---	---	---
CONTROL PANEL ECB	---	---	---	---
GENERATOR RECEPTACLE (NOTE # 5)	---	---	---	---
STARTER (SIZE & TYPE)	---	---	---	---
ELECTRIC SERVICE (TYPE & SIZE)	---	---	---	---
PONY PUMP MODEL	---	---	---	---
PONY PUMP SUCTION SIZE	---	---	---	---
PONY PUMP DISCHARGE SIZE	---	---	---	---

PUMP STATION INFORMATION NOTES:

1. "SV" = STORAGE VOLUME PER DESIGN ENGINEER AND SHALL BE DESIGNED FOR 12 MINUTE CYCLE TIME, MINIMUM STORAGE DEPTH SHALL BE 24".
2. IF PUMP MANUFACTURER REQUIRES A GREATER SEPARATION, THAT SEPARATION SHALL BE USED WITH THE ADDITION OF FLANGED FILLERS OR SPOOL PIECES. THE DIFFERENT SEPARATION MUST BE APPROVED BY JEA PRIOR TO CONSTRUCTION AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO JEA.
3. ALL PUMP MOTORS SHALL BE 3 PHASE.
4. AMPERE INTERRUPTING CAPACITY (AIC): CONTACT ELECTRICAL UTILITY FOR THIS DATA.
5. A GENERATOR RECEPTACLE SHALL BE PROVIDED REGARDLESS IF A PONY PUMP IS INSTALLED.

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433, "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
2. PENETRATION SOIL BORING INFORMATION, TAKEN AT WETWELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN SUBMITTAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEPER THAN WETWELL BOTTOM OR UNTIL SUITABLE SOIL IS LOCATED UP TO A MAXIMUM OF 25' BELOW WET WELL BOTTOM.
3. PIPING WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL (SCHEDULE 10, ONE PIECE CONSTRUCTION). FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL. BUTT WELDING OF PIPING IS NOT ALLOWED. ALL NUTS, BOLTS AND ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
4. FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE EITHER STAINLESS STEEL (FLANGED, SCHEDULE 10). ALL WELD-ON FLANGES SHALL BE 150# RF SOCKET-WELD FLANGE. ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" TYPE COATING.
5. ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 12" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
6. THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED w/ EUCOLASTIC BY EUCLID CITEM CO. OR APPROVED EQUAL SEAL. ALL OHTER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
7. PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1 ½" WIDE x ⅜" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
8. PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM). SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
9. SITE GRADE IS 6" (MIN) BELOW TOP ELEVATION OF PUMP STATION SLAB.
10. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).
11. PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD, ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWING SUBMITTAL. SEE SPECIFICATIONS. THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
12. SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCITON DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.

DISCHARGE PIPE DATA (WITHIN WET WELL)

PIPE SIZE	PIPE HOLE DIA.	PUMP SEPARATION	MIN PUMPOUT SIZE	HATCH SIZE (MIN.)
(J)	(N)	(PS)	(PO)	
4"	10"	26"	4"	36"x48"
6"	12"	32"	6"	36"x60"
FREE STANDING PUMP OUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	36"	8"	---
10"	17"	44"	10"	---
12"	20"	48"	12"	---
14" & LARGER	-	-	14" & LARGER	---

WET WELL DIMENSIONS

WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
8'-0"	0'-9"	0'-10"
10'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

MCC PANEL

THE COMBINED MOTOR CONTROL AND RTV PANEL SHALL BE AS NOTED BELOW. CONTRATOR SHALL SUBMIT APPLICABLE SHOP DRAWING PACKAGE.SEE JEA.COM FOR DETAILS.

- ☐ FIXED SPEED PANEL: 240/120 VOLT, 3 PHASE, OPEN DELTA, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ FIXED SPEED PANEL:: 480 VOLT, 3 PHASE, FULL VOLTAGE MOTOR STARTING 15 STARTS PER HOUR
- ☐ 1P-3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ 3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, REDUCED VOLTAGE MOTOR STARTING, 10 STARTS PER HOUR

PONY PUMP

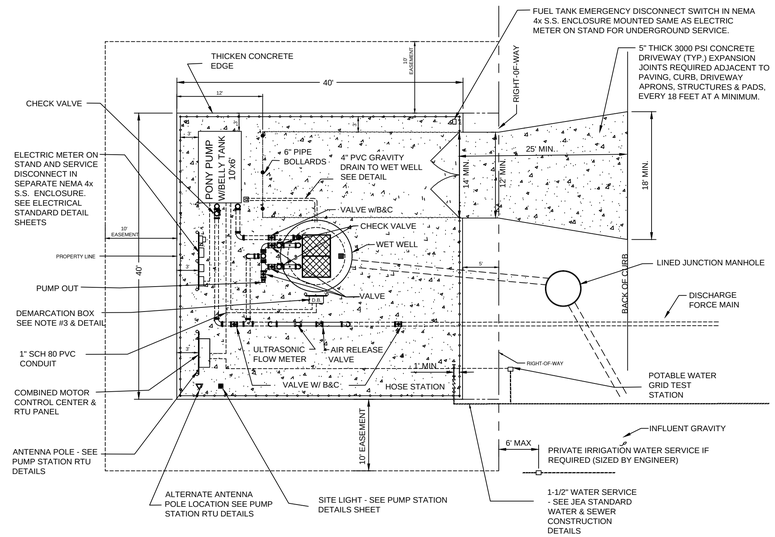
MANUFACTURE		
MODEL		
FLOW GPM @ TDH		
RPM		
NPSHR		
ENGINE H.P.		
SUCTION PIPE SIZE		
DISCHARGE PIPE SIZE		

DESIGN NOTES:

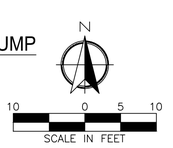
1. ENGINEER SHALL USE THIS PLAN AS A BASIS OF DESIGN FOR SITE SPECIFIC PUMP STATION. THESE NOTES TO BE ERASED ON COMPLETED DRAWING.
2. WETWELL SIZE: PUMP STATION 8'-0" I.D. MIN., 27' DEEP MAX.
3. MINIMUM FLOW RATE: 220 GPM EACH PUMP
4. MINIMUM ELECTRIC SERVICE SIZE: 230 VOLT, 200 AMP., 3 PHASE, 4 WIRE
5. MINIMUM CONCRETE PAD SIZE: 40'x40'
6. MINIMUM JUNCTION MANHOLE SIZE: 5'-0" I.D. LOCATE ON SAME SIDE OF DRIVEWAY AS PUMP-OUT CONNECTION.
7. IT IS THE ENGINEER'S RESPONSIBILITY TO DESIGN THE SITE TO MEET FUNCTIONALITY AND SITE SPECIFIC CONDITIONS. HOWEVER, THE ENGINEER SHALL MAKE EVERY EFFORT TO CONFORM TO THE STANDARD DRAWING SHOWN HERE.
8. HOW TO DETERMINE TOWER OR POLE FOR SCADA (SEE ALSO SPEC SECTION 433): TO DETERMINE IF A POLE OR TOWER IS REQUIRED A RADIO PATH STUDY MUST FIRST BE CONDUCTED. THE RADIO PATH STUDY MUST BE DONE USING THE SAME TYPE OF RADIO USED IN THE SCADA PANEL AND MUST BE A MINIMUM OF -86DB RSSI. IF THE HEIGHT OF THE MINIMUM -86DB RSSI LEVEL IS LESS THAN OR EQUAL TO 20 FEET THEN A 20 FOOT POLE CAN BE USED. IF THE HEIGHT REQUIREMENTS ARE OVER 20 FEET THEN A TOWER MUST BE USED.
9. THE PUMP STATION TOP ELEVATION SHALL BE SET AT A MINIMUM OF 1' ABOVE THE "R" ELEVATION, THE "R" ELEVATION SHALL BE EQUAL TO THE DESIGN HIGH WATER LEVEL OR THE 100 YEAR FLOOD ELEVATION, WHICHEVER IS HIGHER.
10. FLOW METER: ULTRASONIC FLOW METER TO BE DESIGNED BY ENGINEER.

CONSTRUCTION NOTES:

1. SLOPE CONCRETE 1" PER 8' TO DRAIN TOWARDS STREET OR OTHER ADJACENT CITY OR JEA OWNED DRAINAGE FACILITY.
2. CONTRACTOR MUST MAINTAIN LANDSCAPING UNTIL FINAL ACCEPTANCE AND SUPPLY ONE (1) YEAR WARRANTY FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.
3. DEMARCATION BOX SHALL BE PLACED AS CLOSE AS POSSIBLE TO WETWELL. IT SHALL BE PLACED SO AS NOT TO INTERFERE WITH ACCESS TO THE WETWELL OR DISCHARGE APPARATUS, AND DOOR SHALL FACE AWAY FROM WETWELL.
4. SEE GROUNDING PLAN FOR ELECTRICAL SERVICE GROUNDING REQUIREMENTS (SEE JEA.COM).
5. CONTRACTOR MUST KEEP COMPANY SIGN AND PHONE NUMBER ON FENCE UNTIL STATION ACCEPTED.



FOR PEAK FLOWS BETWEEN 0 TO 440 GPM
STANDARD CLASS ONE PUMP STATION SITE PLAN W/ PONY PUMP
SCALE: 1"=10'



SITE SPECIFIC

REVISIONS

NO.	BY	DATE
6.		
5.		
4.		
3.		
2.		
1.		

DESIGN ENGINEER

FLORIDA REGISTRATION NO.

DESIGNED:
DRAWN BY:
DATE:
CHECKED BY:
DATE:

JEA Building Community sm

JEA STANDARD
CLASS ONE PUMP STATION W/PONY PUMP
FOR PEAK FLOWS BETWEEN 0 TO 440 GPM
PLAN AND SECTION

PROJ. NO.
DATE:
SCALE:

NO. SHEETS
SHEET NO.
DRAWING NO.

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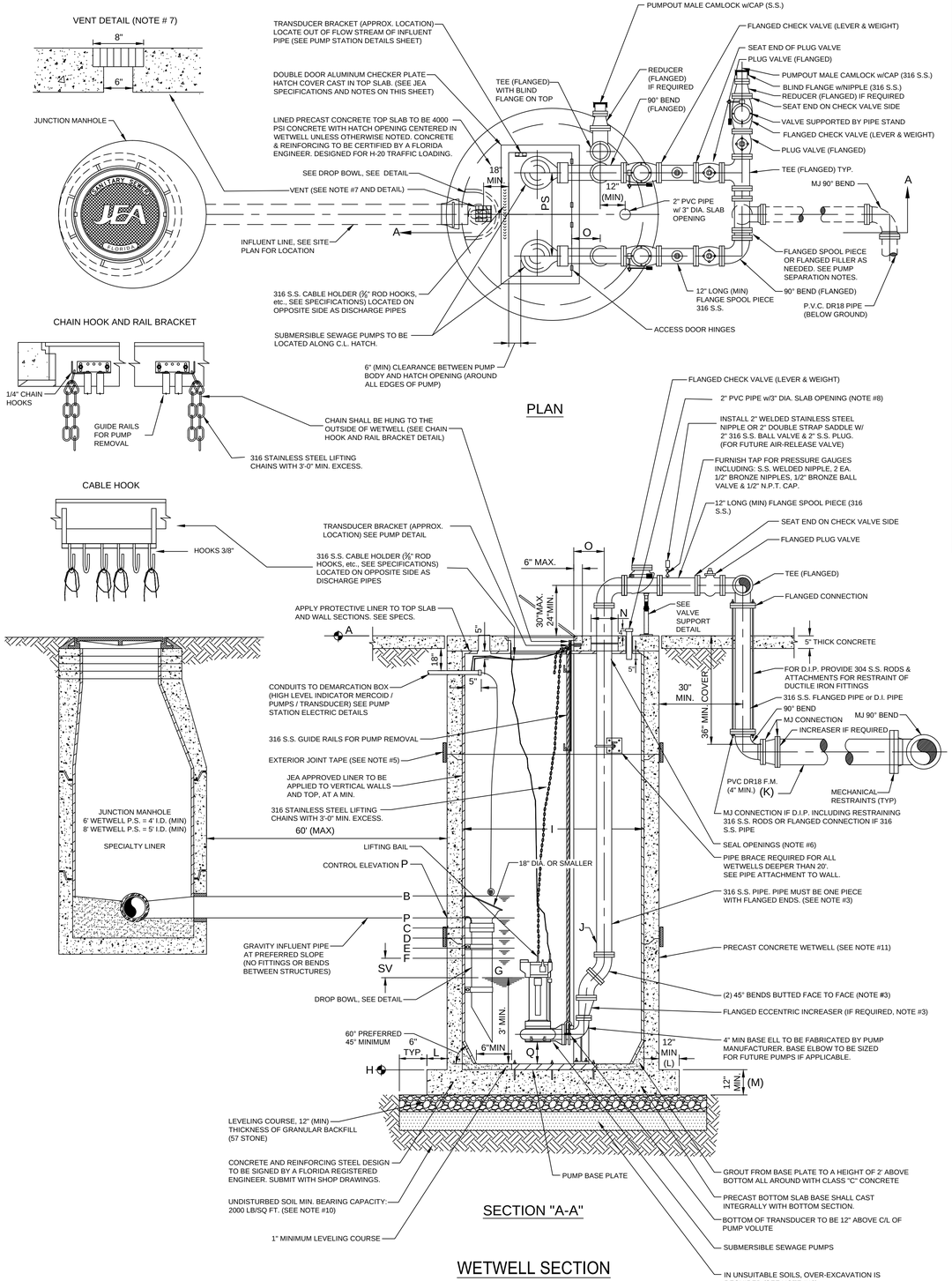


SECTION "A-A"

WETWELL SECTION

NOT TO SCALE

PUMP STATION INFORMATION
SCHEDULE OF ELEVATIONS

PUMP STATION STREET ADDRESS	TOP ELEV (NOTE 9)	MERCOID LEVEL	ALARM ELEVATION	LEFT BLANK	LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION (NOTE #1)	BOTTOM ELEVATION (NOTE #5)	WET WELL DIA.	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE (SEE TABLE BELOW)
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
	R + 1.0	P + 0.5'	P - 0.5'		P - 1.0'	P - 1.5'	F - SV	G - 3"	---	---	---	---	---	---	---	---	---	---	---
	---	---	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	

	ALL PUMPS			
PUMP MANUFACTURER	WILO/EMU	FLYGT	HYDROMATIC	KSB
MODEL	---	---	---	---
IMPELLER	---	---	---	---
PUMP DISCHARGE	---	---	---	---
MOTOR (RPM)	---	---	---	---
HORSEPOWER (HP)	---	---	---	---
PHASE/VOLT/AMPS (NOTE#3)	---	---	---	---
AIC (SEE NOTE #4)	---	---	---	---
DESIGN POINT (GPM) @ TDH (FT)	---	---	---	---
RUNOUT POINT (GPM) @ TDH (FT)	---	---	---	---
EMERGENCY MAIN	---	---	---	---
NORMAL SERVICE MAIN	---	---	---	---
CB #1 TO PUMP NO. 1	---	---	---	---
CB #2 TO PUMP NO. 2	---	---	---	---
CONTROL PANEL MCB	---	---	---	---
CONTROL PANEL ECB	---	---	---	---
GENERATOR RECEPTACLE	---	---	---	---
STARTER (SIZE & TYPE)	---	---	---	---
ELECTRIC SERVICE (TYPE & SIZE)	---	---	---	---
GENERATOR SIZE	N/A	N/A	N/A	N/A

PUMP STATION INFORMATION NOTES:

1. "SV" = STORAGE VOLUME PER DESIGN ENGINEER AND SHALL BE DESIGNED FOR 12 MINUTE CYCLE TIME, MINIMUM STORAGE DEPTH SHALL BE 24".
2. IF PUMP MANUFACTURER REQUIRES A GREATER SEPARATION, THAT SEPARATION SHALL BE USED WITH THE ADDITION OF FLANGED FILLERS OR SPOOL PIECES. THE DIFFERENT SEPARATION MUST BE APPROVED BY JEA PRIOR TO CONSTRUCTION AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO JEA.
3. ALL PUMP MOTORS SHALL BE 3 PHASE.
4. AMPERE INTERRUPTING CAPACITY (AIC): CONTACT THE ELECTRICAL UTILITY COMPANY FOR THIS DATA IF AVAILABLE.
5. FOR 6' I.D. WET WELLS, "H" EQUALS "G"-1.5'.

DISCHARGE PIPE DATA (WITHIN WET WELL)

PIPE SIZE	PIPE HOLE DIA.	PUMP SEPARATION	MIN PUMPOUT SIZE	HATCH SIZE (MIN.)
(J)	(N)	(PS)	(PO)	
4"	10"	26"	4"	36"x48"
6"	12"	32"	6"	36"x60"
FREE STANDING PUMP OUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	36"	8"	---
10"	17"	44"	10"	---
12"	20"	48"	12"	---
14" & LARGER	-	-	14" & LARGER	---

WET WELL DIMENSIONS

WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
6'-0"	0'-7"	0'-8"
8'-0"	0'-9"	0'-10"
1'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

MCC PANEL

THE COMBINED MOTOR CONTROL AND RTV PANEL SHALL BE AS NOTED BELOW. CONTRATOR SHALL SUBMIT APPLICABLE SHOP DRAWING PACKAGE.SEE JEA.COM FOR DETAILS.

- ☐ FIXED SPEED PANEL: 240/120 VOLT, 3 PHASE, OPEN DELTA, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ FIXED SPEED PANEL:: 480 VOLT, 3 PHASE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ 1P-3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ 3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, REDUCED VOLTAGE MOTOR STARTING, 10 STARTS PER HOUR

GENERAL NOTES:

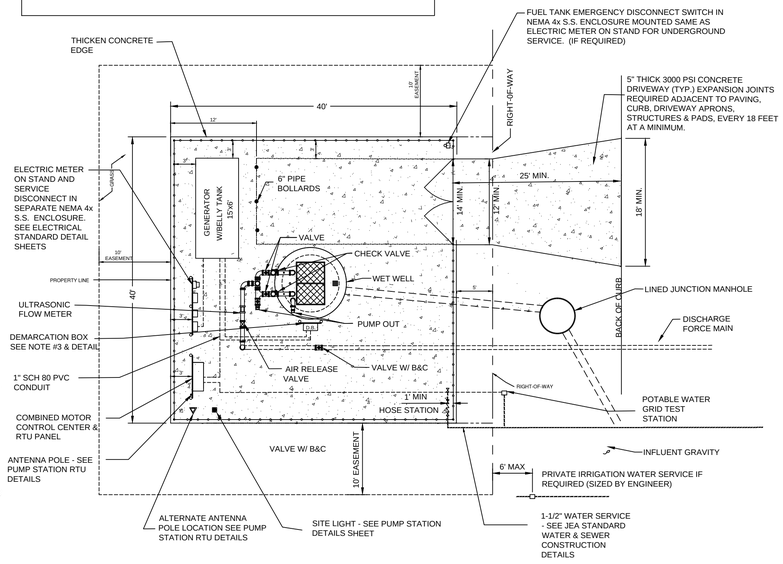
1. ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433, "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
2. PENETRATION SOIL BORING INFORMATION, TAKEN AT WETWELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN SUBMITTAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEPER THAN WETWELL BOTTOM OR UNTIL SUITABLE SOIL IS LOCATED UP TO A MAXIMUM OF 25' BELOW WET WELL BOTTOM.
3. PIPING WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, (SCHEDULE 10, ONE PIECE CONSTRUCTION). FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL. BUTT WELDING OF PIPING IS NOT ALLOWED. ALL NUTS, BOLTS AND ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
4. FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE EITHER STAINLESS STEEL (FLANGED, SCHEDULE 10). ALL WELD-ON FLANGES SHALL BE 150# RF SOCKET-WELD FLANGE. ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" TYPE COATING.
5. ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 12" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
6. THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED w/ EUCOLASTIC BY EUCLID CITEM CO. OR APPROVED EQUAL SEAL. ALL OHTER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
7. PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1 ¾" WIDE x ⅛" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
8. PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM). SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
9. SITE GRADE IS 6" (MIN) BELOW TOP ELEVATION OF PUMP STATION SLAB.
10. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).
11. PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD, ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWING SUBMITTAL. SEE SPECIFICATIONS. THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
12. SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCITON DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.

DESIGN NOTES:

1. ENGINEER SHALL USE THIS PLAN AS A BASIS OF DESIGN FOR SITE SPECIFIC PUMP STATION. THESE NOTES TO BE ERASED ON COMPLETED DRAWING.
2. WETWELL SIZE: PUMP STATION 8'-0" I.D. MIN., 27' DEEP MAX.
3. MINIMUM FLOW RATE: 220 GPM EACH PUMP
4. MINIMUM ELECTRIC SERVICE SIZE: 230 VOLT, 200 AMP., 3 PHASE, 4 WIRE
5. MINIMUM CONCRETE PAD SIZE: 40'x40'
6. MINIMUM JUNCTION MANHOLE SIZE: 5'-0" I.D. LOCATE ON SAME SIDE OF DRIVEWAY AS PUMP-OUT CONNECTION.
7. IT IS THE ENGINEER'S RESPONSIBILITY TO DESIGN THE SITE TO MEET FUNCTIONALITY AND SITE SPECIFIC CONDITIONS. HOWEVER, THE ENGINEER SHALL MAKE EVERY EFFORT TO CONFORM TO THE STANDARD DRAWING SHOWN HERE.
8. HOW TO DETERMINE TOWER OR POLE FOR SCADA (SEE ALSO SPEC SECTION 433): TO DETERMINE IF A POLE OR TOWER IS REQUIRED A RADIO PATH STUDY MUST FIRST BE CONDUCTED. THE RADIO PATH STUDY MUST BE DONE USING THE SAME TYPE OF RADIO USED IN THE SCADA PANEL AND MUST BE A MINIMUM OF -96DB RSSI. IF THE HEIGHT OF THE MINIMUM -96DB RSSI LEVEL IS LESS THAN OR EQUAL TO 20 FEET THEN A 20 FOOT POLE CAN BE USED. IF THE HEIGHT REQUIREMENTS ARE OVER 20 FEET THEN A TOWER MUST BE USED.
9. THE PUMP STATION TOP ELEVATION SHALL BE SET AT A MINIMUM OF 1' ABOVE THE "R" ELEVATION. THE "R" ELEVATION SHALL BE EQUAL TO THE DESIGN HIGH WATER LEVEL OR THE 100 YEAR FLOOD ELEVATION, WHICHEVER IS HIGHER.
10. FLOW METER: ULTRASONIC FLOW METER TO BE DESIGNED BY ENGINEER.

CONSTRUCTION NOTES:

1. SLOPE CONCRETE 1" PER 8' TO DRAIN TOWARDS STREET OR OTHER ADJACENT CITY OR JEA OWNED DRAINAGE FACILITY.
2. CONTRACTOR MUST MAINTAIN LANDSCAPING UNTIL FINAL ACCEPTANCE AND SUPPLY ONE (1) YEAR WARRANTY FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.
3. DEMARCATION BOX SHALL BE PLACED AS CLOSE AS POSSIBLE TO WETWELL. IT SHALL BE PLACED SO AS NOT TO INTERFERE WITH ACCESS TO THE WETWELL OR DISCHARGE APPARATUS, AND DOOR SHALL FACE AWAY FROM WETWELL.
4. SEE GROUNDING PLAN FOR ELECTRICAL SERVICE GROUNDING REQUIREMENTS (SEE JEA.COM).
5. CONTRACTOR MUST KEEP COMPANY SIGN AND PHONE NUMBER ON FENCE UNTIL STATION ACCEPTED.



FOR PEAK FLOWS BETWEEN 0 TO 440 GPM
STANDARD CLASS ONE PUMP STATION SITE PLAN W/GENERATOR

SCALE: 1"=10'

N

10 0 5 10

SCALE IN FEET

SITE SPECIFIC

NO.	BY	DATE	REVISIONS
6.			
5.			
4.			
3.			
2.			
1.			

DESIGN ENGINEER

FLORIDA REGISTRATION NO.

DESIGNED:
DRAWN BY:
DATE:
CHECKED BY:
DATE:

JEA Building Community sm

JEA STANDARD
CLASS ONE PUMP STATION W/GENERATOR
FOR PEAK FLOWS BETWEEN 0 TO 440 GPM
PLAN AND SECTION

PROJ. NO.
DATE:
SCALE:

NO. SHEETS
SHEET NO.
DRAWING NO.

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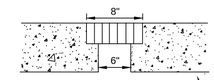
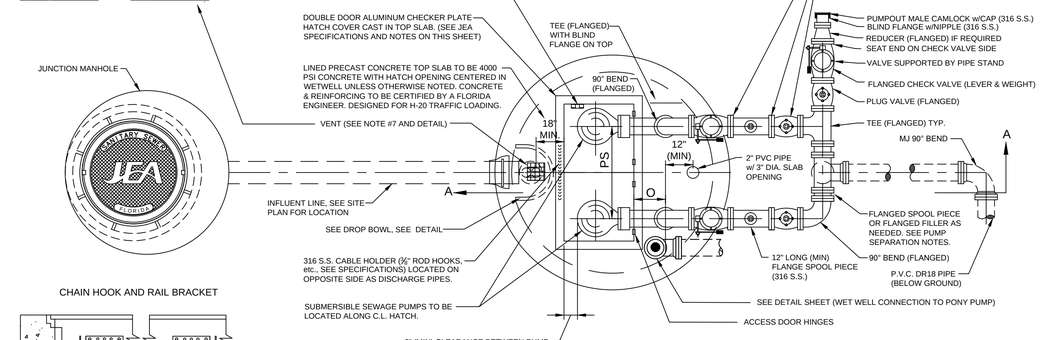
Xrefs Attached=

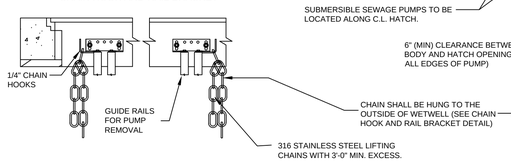
SITE SPECIFIC

VENT DETAIL (NOTE # 7)

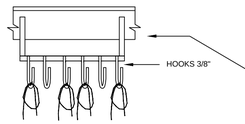




CHAIN HOOK AND RAIL BRACKET



CABLE HOOK



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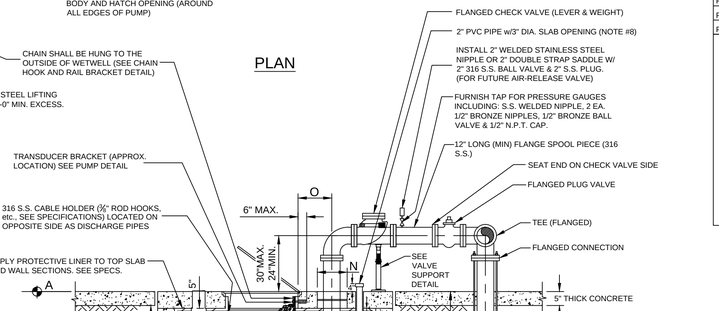


SECTION "A-A"

WETWELL SECTION

NOT TO SCALE

PUMP STATION INFORMATION
SCHEDULE OF ELEVATIONS

PUMP STATION STREET ADDRESS	TOP ELEV (NOTE 9)	MERCOID LEVEL	ALARM ELEVATION	LEFT BLANK	LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION	BOTTOM ELEVATION	WET WELL DIA.	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE (SEE TABLE BELOW)
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
	R + 1.0	P + 0.5'	P - 0.5'		P - 1.0'	P - 1.5'	F - SV	G - 3'	---	---	---	---	---	---	---	---	---	---	---
	---	---	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	

	ALL PUMPS			
PUMP MANUFACTURER	WILO/EMU	FLYGT	HYDROMATIC	KSB
MODEL	---	---	---	---
IMPELLER	---	---	---	---
PUMP DISCHARGE	---	---	---	---
MOTOR (RPM)	---	---	---	---
HORSEPOWER (HP)	---	---	---	---
PHASE/VOLT/AMPS (NOTE #3)	---	---	---	---
AIC (SEE NOTE #4)	---	---	---	---
DESIGN POINT (GPM) @ TDH (FT)	---	---	---	---
RUNOUT POINT (GPM) @ TDH (FT)	---	---	---	---
EMERGENCY MAIN	---	---	---	---
NORMAL SERVICE MAIN	---	---	---	---
CB #1 TO PUMP NO. 1	---	---	---	---
CB #2 TO PUMP NO. 2	---	---	---	---
CONTROL PANEL MCB	---	---	---	---
CONTROL PANEL ECB	---	---	---	---
GENERATOR RECEPTACLE (NOTE # 5)	---	---	---	---
STARTER (SIZE & TYPE)	---	---	---	---
ELECTRIC SERVICE (TYPE & SIZE)	---	---	---	---
PONY PUMP MODEL	---	---	---	---
PONY PUMP SUCTION SIZE	---	---	---	---
PONY PUMP DISCHARGE SIZE	---	---	---	---

PUMP STATION INFORMATION NOTES:

1. "SV" = STORAGE VOLUME PER DESIGN ENGINEER AND SHALL BE DESIGNED FOR 12 MINUTE CYCLE TIME, MINIMUM STORAGE DEPTH SHALL BE 24".
2. IF PUMP MANUFACTURER REQUIRES A GREATER SEPARATION, THAT SEPARATION SHALL BE USED WITH THE ADDITION OF FLANGED FILLERS OR SPOOL PIECES. THE DIFFERENT SEPARATION MUST BE APPROVED BY JEA PRIOR TO CONSTRUCTION AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO JEA.
3. ALL PUMP MOTORS SHALL BE 3 PHASE.
4. AMPERE INTERRUPTING CAPACITY (AIC): CONTACT ELECTRICAL UTILITY FOR THIS DATA.
5. A GENERATOR RECEPTACLE SHALL BE PROVIDED REGARDLESS IF A PONY PUMP IS INSTALLED.

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433, "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
2. PENETRATION SOIL BORING INFORMATION, TAKEN AT WETWELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN SUBMITTAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEPER THAN WETWELL BOTTOM OR UNTIL SUITABLE SOIL IS LOCATED UP TO A MAXIMUM OF 25' BELOW WET WELL BOTTOM.
3. PIPING WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, (SCHEDULE 10, ONE PIECE CONSTRUCTION). FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL. BUTT WELDING OF PIPING IS NOT ALLOWED. ALL NUTS, BOLTS AND ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
4. FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE EITHER STAINLESS STEEL (FLANGED, SCHEDULE 10). ALL WELD-ON FLANGES SHALL BE 150# RF SOCKET-WELD FLANGE. ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" TYPE COATING.
5. ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 12" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
6. THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED w/ EUCOLASTIC BY EUCLID CITEM CO. OR APPROVED EQUAL SEAL. ALL OHTER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
7. PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1 ¾" WIDE x ⅜" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
8. PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM). SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
9. SITE GRADE IS 6" (MIN) BELOW TOP ELEVATION OF PUMP STATION SLAB.
10. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).
11. PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD, ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWING SUBMITTAL. SEE SPECIFICATIONS. THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
12. SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCITON DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.

DISCHARGE PIPE DATA (WITHIN WET WELL)

PIPE SIZE	PIPE HOLE DIA.	PUMP SEPARATION	MIN PUMPOUT SIZE	HATCH SIZE (MIN.)
(J)	(N)	(PS)	(PO)	
4"	10"	26"	4"	36"x48"
6"	12"	32"	6"	36"x60"
FREE STANDING PUMP OUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	36"	8"	---
10"	17"	44"	10"	---
12"	20"	48"	12"	---
14" & LARGER	-	-	14" & LARGER	---

WET WELL DIMENSIONS

WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
8'-0"	0'-9"	0'-10"
10'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

MCC PANEL

THE COMBINED MOTOR CONTROL AND RTV PANEL SHALL BE AS NOTED BELOW. CONTRATOR SHALL SUBMIT APPLICABLE SHOP DRAWING PACKAGE,SEE JEA.COM FOR DETAILS.

- ☐ FIXED SPEED PANEL: 240/120 VOLT, 3 PHASE, OPEN DELTA, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ FIXED SPEED PANEL:: 480 VOLT, 3 PHASE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ 1P-3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ 3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, REDUCED VOLTAGE MOTOR STARTING, 10 STARTS PER HOUR

DESIGN NOTES:

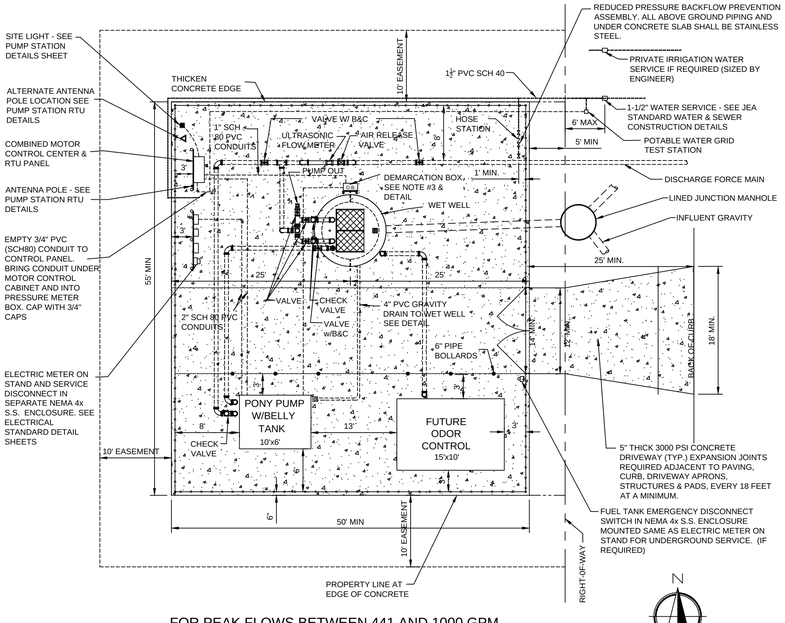
1. ENGINEER SHALL USE THIS PLAN AS A BASIS OF DESIGN FOR SITE SPECIFIC PUMP STATION. THESE NOTES TO BE ERASED ON COMPLETED DRAWING.
2. WETWELL SIZE: PUMP STATION 8'-0" I.D. MIN., 27' DEEP MAX.
3. MINIMUM FLOW RATE: 220 GPM EACH PUMP
4. MINIMUM ELECTRIC SERVICE SIZE: 230 VOLT, 200 AMP., 3 PHASE, 4 WIRE
5. MINIMUM CONCRETE PAD SIZE: 40'x40'
6. MINIMUM JUNCTION MANHOLE SIZE: 5'-0" I.D. LOCATE ON SAME SIDE OF DRIVEWAY AS PUMP-OUT CONNECTION.
7. IT IS THE ENGINEER'S RESPONSIBILITY TO DESIGN THE SITE TO MEET FUNCTIONALITY AND SITE SPECIFIC CONDITIONS. HOWEVER, THE ENGINEER SHALL MAKE EVERY EFFORT TO CONFORM TO THE STANDARD DRAWING SHOWN HERE.
8. HOW TO DETERMINE TOWER OR POLE FOR SCADA (SEE ALSO SPEC SECTION 433): TO DETERMINE IF A POLE OR TOWER IS REQUIRED A RADIO PATH STUDY MUST FIRST BE CONDUCTED. THE RADIO PATH STUDY MUST BE DONE USING THE SAME TYPE OF RADIO USED IN THE SCADA PANEL AND MUST BE A MINIMUM OF -86DB RSSI. IF THE HEIGHT OF THE MINIMUM -86DB RSSI LEVEL IS LESS THAN OR EQUAL TO 20 FEET THEN A 20 FOOT POLE CAN BE USED. IF THE HEIGHT REQUIREMENTS ARE OVER 20 FEET THEN A TOWER MUST BE USED.
9. THE PUMP STATION TOP ELEVATION SHALL BE SET AT A MINIMUM OF 1' ABOVE THE "R" ELEVATION. THE "R" ELEVATION SHALL BE EQUAL TO THE DESIGN HIGH WATER LEVEL OR THE 100 YEAR FLOOD ELEVATION, WHICHEVER IS HIGHER.
10. FLOW METER: ULTRASONIC FLOW METER TO BE DESIGNED BY ENGINEER.

PONY PUMP

MANUFACTURE	
MODEL	
FLOW GPM @ TDH	
RPM	
NPSHR	
ENGINE H.P.	
SUCTION PIPE SIZE	
DISCHARGE PIPE SIZE	

CONSTRUCTION NOTES:

1. SLOPE CONCRETE TO DRAIN TOWARDS STREET OR OTHER ADJACENT CITY OR JEA OWNED DRAINAGE FACILITY.
2. CONTRACTOR MUST MAINTAIN LANDSCAPING UNTIL FINAL ACCEPTANCE AND SUPPLY ONE (1) YEAR WARRANTY FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.
3. DEMARCATION BOX SHALL BE PLACED AS CLOSE AS POSSIBLE TO WETWELL. IT SHALL BE PLACED SO AS NOT TO INTERFERE WITH ACCESS TO THE WETWELL OR DISCHARGE APPARATUS, AND DOOR SHALL FACE AWAY FROM WETWELL.
4. SEE GROUNDING PLAN FOR ELECTRICAL SERVICE GROUNDING REQUIREMENTS (SEE JEA.COM).
5. CONTRACTOR MUST KEEP COMPANY SIGN AND PHONE NUMBER ON FENCE UNTIL STATION ACCEPTED.



FOR PEAK FLOWS BETWEEN 441 AND 1000 GPM

STANDARD CLASS TWO PUMP STATION SITE PLAN W/PONY PUMP

SCALE: 1"=10'

NO.	BY	DATE	REVISIONS
6.			
5.			
4.			
3.			
2.			
1.			

DESIGN ENGINEER:

FLORIDA REGISTRATION NO.

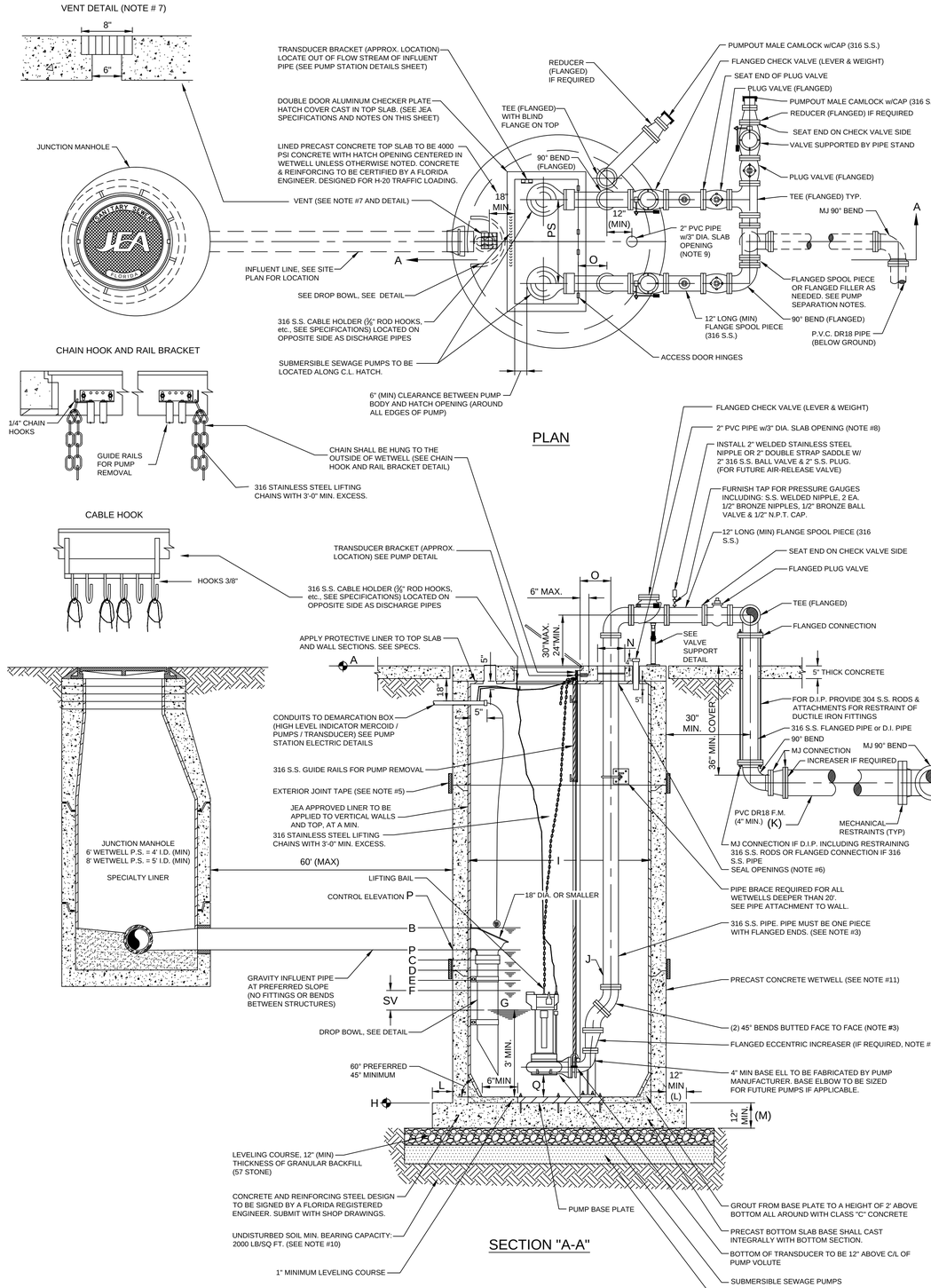
DESIGNED:
DRAWN BY:
DATE:
CHECKED BY:
DATE:

JEA Building Community sm

JEA STANDARD
CLASS TWO PUMP STATION WITH PONY PUMP
FOR PEAK FLOWS BETWEEN 441 TO 1000 GPM
PLAN AND SECTION BY EXCEPTION ONLY

PROJ. NO.
DATE:
SCALE:

NO. SHEETS
SHEET NO.
DRAWING NO.



PUMP STATION INFORMATION
SCHEDULE OF ELEVATIONS

PUMP STATION STREET ADDRESS	TOP ELEV (NOTE 9)	MERCOID LEVEL	ALARM ELEVATION	LEFT BLANK	LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION	BOTTOM ELEVATION	WET WELL DIA.	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE (SEE TABLE BELOW)
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
	R + 1.0	P + 0.5'	P - 0.5'		P - 1.0'	P - 1.5'	F - SV	G - 3'	---	---	---	---	---	---	---	---	---	---	---
	---	---	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	

	ALL PUMPS			
PUMP MANUFACTURER	WILO/EMU	FLYGT	HYDROMATIC	KSB
MODEL	---	---	---	---
IMPELLER	---	---	---	---
PUMP DISCHARGE	---	---	---	---
MOTOR (RPM)	---	---	---	---
HORSEPOWER (HP)	---	---	---	---
PHASE/VOLT/AMPS (NOTE #3)	---	---	---	---
AIC (SEE NOTE #4)	---	---	---	---
DESIGN POINT (GPM) @ TDH (FT)	---	---	---	---
RUNOUT POINT (GPM) @ TDH (FT)	---	---	---	---
EMERGENCY MAIN	---	---	---	---
NORMAL SERVICE MAIN	---	---	---	---
CB #1 TO PUMP NO. 1	---	---	---	---
CB #2 TO PUMP NO. 2	---	---	---	---
CONTROL PANEL MCB	---	---	---	---
CONTROL PANEL ECB	---	---	---	---
GENERATOR RECEPTACLE	---	---	---	---
STARTER (SIZE & TYPE)	---	---	---	---
ELECTRIC SERVICE (TYPE & SIZE)	---	---	---	---
GENERATOR MODEL	---	---	---	---
---	---	---	---	---
---	---	---	---	---

PUMP STATION INFORMATION NOTES:

1. "SV" = STORAGE VOLUME PER DESIGN ENGINEER AND SHALL BE DESIGNED FOR 12 MINUTE CYCLE TIME, MINIMUM STORAGE DEPTH SHALL BE 24".
2. IF PUMP MANUFACTURER REQUIRES A GREATER SEPARATION, THAT SEPARATION SHALL BE USED WITH THE ADDITION OF FLANGED FILLERS OR SPOOL PIECES. THE DIFFERENT SEPARATION MUST BE APPROVED BY JEA PRIOR TO CONSTRUCTION AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO JEA.
3. ALL PUMP MOTORS SHALL BE 3 PHASE.
4. AMPERE INTERRUPTING CAPACITY (AIC): CONTACT ELECTRICAL UTILITY FOR THIS DATA.
5. A GENERATOR RECEPTACLE WILL BE PROVIDED REGARDLESS IF A GENERATOR ON SITE

DISCHARGE PIPE DATA (WITHIN WET WELL)

PIPE SIZE	PIPE HOLE DIA.	PUMP SEPARATION	MIN. PUMPOUT SIZE	HATCH SIZE (MIN.)
(J)	(N)	(PS)	(PO)	
4"	10"	26"	4"	36"x48"
6"	12"	32"	6"	36"x60"
FREE STANDING PUMP OUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	36"	8"	---
10"	17"	44"	10"	---
12"	20"	48"	12"	---
14" & LARGER	-	-	14" & LARGER	---

WET WELL DIMENSIONS

WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
8'-0"	0'-9"	0'-10"
10'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

MCC PANEL

THE COMBINED MOTOR CONTROL AND RTV PANEL SHALL BE AS NOTED BELOW. CONTRATOR SHALL SUBMIT APPLICABLE SHOP DRAWING PACKAGE,SEE JEA.COM FOR DETAILS.

- ☐ FIXED SPEED PANEL: 240/120 VOLT, 3 PHASE, OPEN DELTA, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ FIXED SPEED PANEL:: 480 VOLT, 3 PHASE, FULL VOLTAGE MOTOR STARTING. 15 STARTS PER HOUR
- ☐ 1P-3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ 3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, REDUCED VOLTAGE MOTOR STARTING, 10 STARTS PER HOUR

GENERAL NOTES:

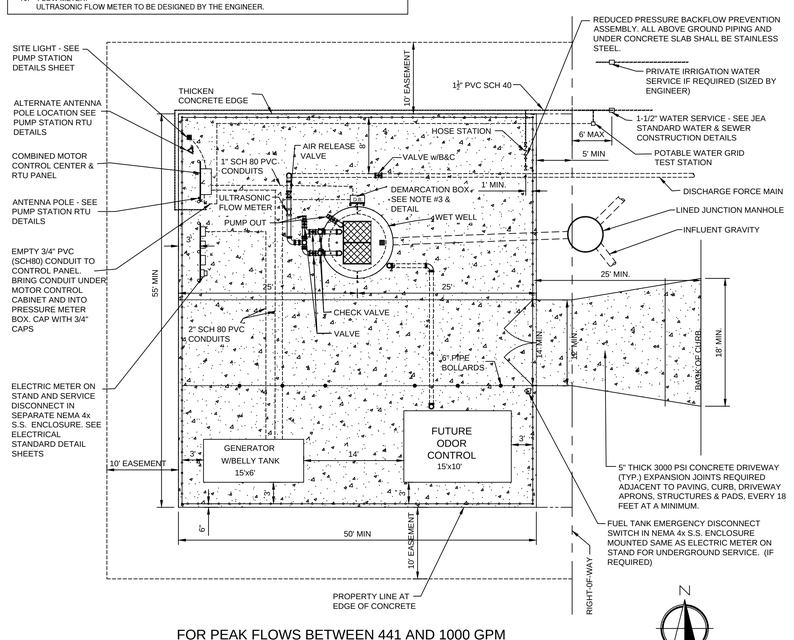
1. ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433, "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
2. PENETRATION SOIL BORING INFORMATION, TAKEN AT WETWELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN SUBMITTAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEPER THAN WETWELL BOTTOM OR UNTIL SUITABLE SOIL IS LOCATED UP TO A MAXIMUM OF 25' BELOW WET WELL BOTTOM.
3. PIPING WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, (SCHEDULE 10, ONE PIECE CONSTRUCTION). FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL. BUTT WELDING OF PIPING IS NOT ALLOWED. ALL NUTS, BOLTS AND ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
4. FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE EITHER STAINLESS STEEL (FLANGED, SCHEDULE 10). ALL WELD-ON FLANGES SHALL BE 150# RF SOCKET-WELD FLANGE. ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" TYPE COATING.
5. ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 12" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
6. THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED w/ EUCOLASTIC BY EUCLID CITEM CO. OR APPROVED EQUAL SEAL. ALL OHTER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
7. PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1 ½" WIDE x ⅜" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
8. PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM). SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
9. SITE GRADE IS 6" (MIN) BELOW TOP ELEVATION OF PUMP STATION SLAB.
10. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).
11. PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD, ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWING SUBMITTAL. SEE SPECIFICATIONS. THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
12. SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCITON DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.

DESIGN NOTES:

1. ENGINEER SHALL USE THIS PLAN AS A BASIS OF DESIGN FOR SITE SPECIFIC PUMP STATION. THESE NOTES TO BE ERASED ON COMPLETED DRAWING.
2. WETWELL SIZE: PUMP STATION 8'-0" I.D. MIN., 27' DEEP MAX.
3. MINIMUM FLOW RATE: 500 GPM EACH PUMP
4. MINIMUM ELECTRIC SERVICE SIZE: 230 VOLT, 200 AMP., 3 PHASE, 4 WIRE
5. MINIMUM CONCRETE PAD SIZE: 55'x50'
6. MINIMUM JUNCTION MANHOLE SIZE: 5'-0" I.D. LOCATE ON SAME SIDE OF DRIVEWAY AS PUMP-OUT CONNECTION.
7. IT IS THE ENGINEER'S RESPONSIBILITY TO DESIGN THE SITE TO MEET FUNCTIONALITY AND SITE SPECIFIC CONDITIONS. HOWEVER, THE ENGINEER SHALL MAKE EVERY EFFORT TO CONFORM TO THE STANDARD DRAWING SHOWN HERE.
8. HOW TO DETERMINE TOWER OR POLE FOR SCADA (SEE ALSO SPEC SECTION 433): TO DETERMINE IF A POLE OR TOWER IS REQUIRED A RADIO PATH STUDY MUST FIRST BE CONDUCTED. THE RADIO PATH STUDY MUST BE DONE USING THE SAME TYPE OF RADIO USED IN THE SCADA PANEL AND MUST BE A MINIMUM OF -86DB RSSI. IF THE HEIGHT OF THE MINIMUM -86DB RSSI LEVEL IS LESS THAN OR EQUAL TO 20 FEET THEN A 20 FOOT POLE CAN BE USED. IF THE HEIGHT REQUIREMENTS ARE OVER 20 FEET THEN A TOWER MUST BE USED.
9. THE PUMP STATION TOP ELEVATION SHALL BE SET AT A MINIMUM OF 1' ABOVE THE "R" ELEVATION. THE "R" ELEVATION SHALL BE EQUAL TO THE DESIGN HIGH WATER LEVEL OR THE 100 YEAR FLOOD ELEVATION, WHICHEVER IS HIGHER.
10. FLOW METER: ULTRASONIC FLOW METER TO BE DESIGNED BY THE ENGINEER.

CONSTRUCTION NOTES:

1. SLOPE CONCRETE TO DRAIN TOWARDS STREET OR OTHER ADJACENT CITY OR JEA OWNED DRAINAGE FACILITY.
2. CONTRACTOR MUST MAINTAIN LANDSCAPING UNTIL FINAL ACCEPTANCE AND SUPPLY ONE (1) YEAR WARRANTY FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.
3. DEMARCATION BOX SHALL BE PLACED AS CLOSE AS POSSIBLE TO WETWELL. IT SHALL BE PLACED SO AS NOT TO INTERFERE WITH ACCESS TO THE WETWELL OR DISCHARGE APPARATUS, AND DOOR SHALL FACE AWAY FROM WETWELL.
4. SEE GROUNDING PLAN FOR ELECTRICAL SERVICE GROUNDING REQUIREMENTS (SEE JEA.COM).
5. CONTRACTOR MUST KEEP COMPANY SIGN AND PHONE NUMBER ON FENCE UNTIL STATION ACCEPTED.



FOR PEAK FLOWS BETWEEN 441 AND 1000 GPM

STANDARD CLASS TWO PUMP STATION SITE PLAN W/GENERATOR

SCALE: 1"=10'

SITE SPECIFIC

NO.	BY	DATE	REVISIONS
6.			
5.			
4.			
3.			
2.			
1.			

DESIGNER:
DRAWN BY:
DATE:
CHECKED BY:
DATE:

DESIGN ENGINEER:
FLORIDA REGISTRATION NO.

JEA Building Community.com

JEA STANDARD
CLASS TWO PUMP STATION WITH GENERATOR
FOR PEAK FLOWS BETWEEN 441 AND 1000 GPM
PLAN AND SECTION

PROJ. NO.
DATE:
SCALE:
NO. SHEETS
SHEET NO.
DRAWING NO.

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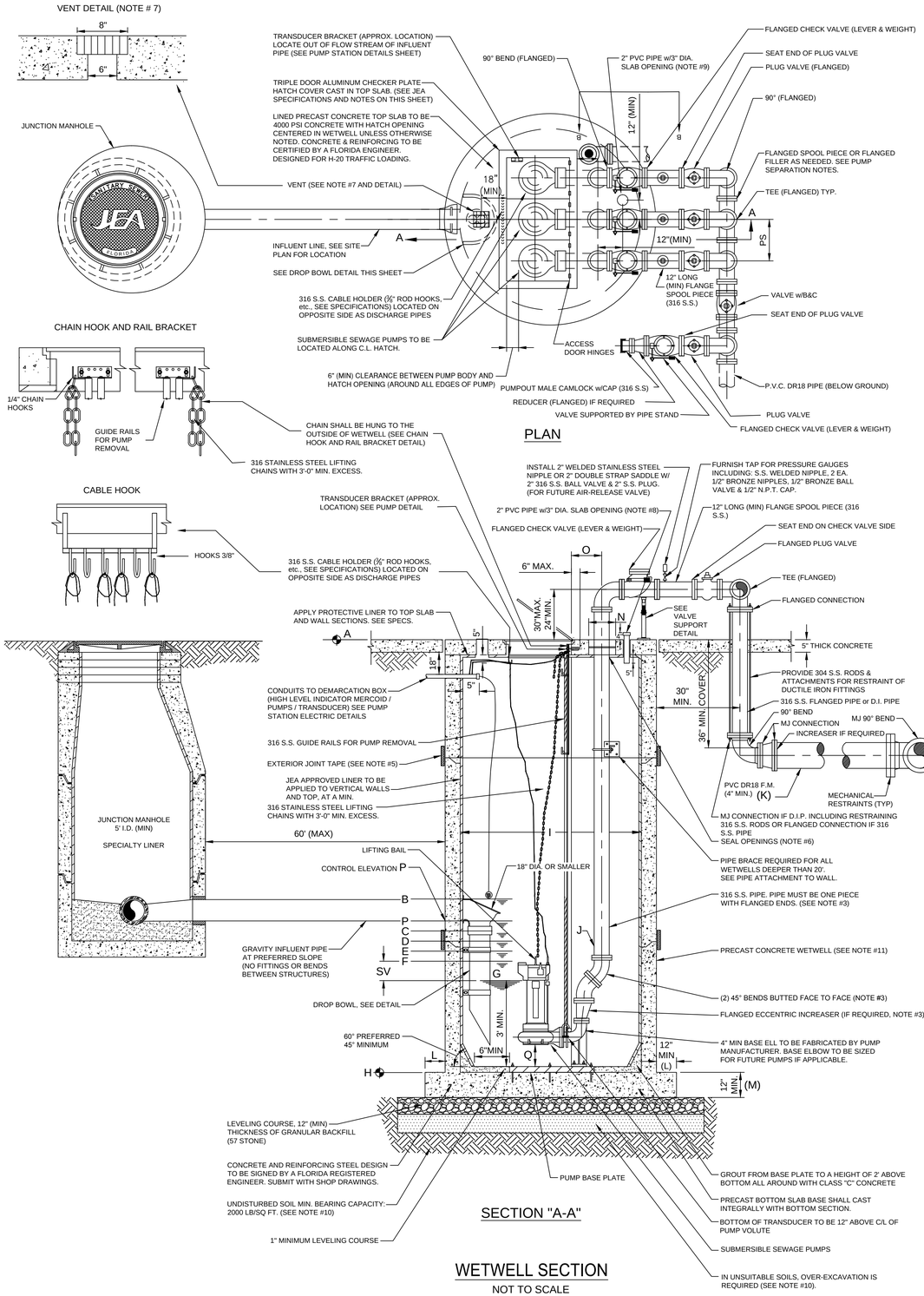


PUMP STATION INFORMATION
SCHEDULE OF ELEVATIONS

PUMP STATION STREET ADDRESS	TOP ELEV (NOTE 9)	MERCOID LEVEL	ALARM ELEVATION	2nd LAG PUMP ON ELEVATION	1st LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION	BOTTOM ELEVATION (NOTE 1)	WET WELL DIA.	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
	R + 1.0	P + 0.5'	P - 0.5'	P - 1.0'	P - 1.5'	P - 2.0'	F - SV	G - 3'	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

	ALL PUMPS			
PUMP MANUFACTURER	WILO/EMU	FLYGT	HYDROMATIC	KSB
MODEL	---	---	---	---
IMPELLER	---	---	---	---
PUMP DISCHARGE	---	---	---	---
MOTOR (RPM)	---	---	---	---
HORSEPOWER (HP)	---	---	---	---
PHASE/VOLT/AMPS (NOTE #3)	---	---	---	---
AIC (SEE NOTE #4)	---	---	---	---
DESIGN POINT (GPM) @ TDH (FT)	---	---	---	---
RUNOUT POINT (GPM) @ TDH (FT)	---	---	---	---
EMERGENCY MAIN	---	---	---	---
NORMAL SERVICE MAIN	---	---	---	---
CB #1 TO PUMP NO. 1	---	---	---	---
CB #2 TO PUMP NO. 2	---	---	---	---
CONTROL PANEL MCB	---	---	---	---
CONTROL PANEL ECB	---	---	---	---
GENERATOR RECEPTACLE	---	---	---	---
STARTER (SIZE & TYPE)	---	---	---	---
ELECTRIC SERVICE (TYPE & SIZE)	---	---	---	---
GENERATOR MODEL	---	---	---	---
---	---	---	---	---
---	---	---	---	---

PUMP STATION INFORMATION NOTES:

1. "SV" = STORAGE VOLUME PER DESIGN ENGINEER AND SHALL BE DESIGNED FOR 12 MINUTE CYCLE TIME, MINIMUM STORAGE DEPTH SHALL BE 24".
2. IF PUMP MANUFACTURER REQUIRES A GREATER SEPARATION, THAT SEPARATION SHALL BE USED WITH THE ADDITION OF FLANGED FILLERS OR SPOOL PIECES. THE DIFFERENT SEPARATION MUST BE APPROVED BY JEA PRIOR TO CONSTRUCTION AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO JEA.
3. ALL PUMP MOTORS SHALL BE 3 PHASE.
4. AMPERE INTERRUPTING CAPACITY (AIC): CONTACT ELECTRICAL UTILITY FOR THIS DATA.
5. A GENERATOR RECEPTACLE TO BE INSTALLED REGARDLESS IF GENERATOR IS PRESET UP TO 400 AMPS.

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433, "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
2. PENETRATION SOIL BORING INFORMATION, TAKEN AT WETWELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN SUBMITTAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEPER THAN WETWELL BOTTOM OR UNTIL SUITABLE SOIL IS LOCATED UP TO A MAXIMUM OF 25' BELOW WET WELL BOTTOM.
3. PIPING WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, (SCHEDULE 10, ONE PIECE CONSTRUCTION). FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL. BUTT WELDING OF PIPING IS NOT ALLOWED. ALL NUTS, BOLTS AND ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
4. FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE EITHER STAINLESS STEEL (FLANGED, SCHEDULE 10). ALL WELD-ON FLANGES SHALL BE 150# RF SOCKET-WELD FLANGE. ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" TYPE COATING.
5. ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 12" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
6. THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED w/ EUCOLASTIC BY EUCLID CITEM CO. OR APPROVED EQUAL SEAL. ALL OHTER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
7. PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1 ¼" WIDE x ⅜" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
8. PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM). SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
9. SITE GRADE IS 6" (MIN) BELOW TOP ELEVATION OF PUMP STATION SLAB.
10. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).
11. PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD, ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWING SUBMITTAL. SEE SPECIFICATIONS. THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
12. SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCITON DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.

DISCHARGE PIPE DATA (WITHIN WET WELL)

PIPE SIZE	PIPE HOLE DIA.	PUMP SEPARATION	MIN PUMPOUT SIZE	HATCH SIZE (MIN.)
(J)	(N)	(PS)	(PO)	
4"	10"	26"	4"	---
6"	12"	32"	6"	---
FREE STANDING PUMP OUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	36"	8"	---
10"	17"	44"	10"	---
12"	20"	48"	12"	---
14" & LARGER	-	-	14" & LARGER	---

WET WELL DIMENSIONS

WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
10'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

MCC PANEL

THE COMBINED MOTOR CONTROL AND RTV PANEL SHALL BE AS NOTED BELOW. CONTRATOR SHALL SUBMIT APPLICABLE SHOP DRAWING PACKAGE,SEE JEA.COM FOR DETAILS.

- ☐ FIXED SPEED PANEL: 240/120 VOLT, 3 PHASE, OPEN DELTA, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ FIXED SPEED PANEL:: 480 VOLT, 3 PHASE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ 1P-3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ 3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, REDUCED VOLTAGE MOTOR STARTING, 10 STARTS PER HOUR

PONY PUMP	
MANUFACTURE	
MODEL	
FLOW GPM @ TDH	
RPM	
NPSHR	
ENGINE H.P.	
SUCTION PIPE SIZE	
DISCHARGE PIPE SIZE	

DESIGN NOTES:

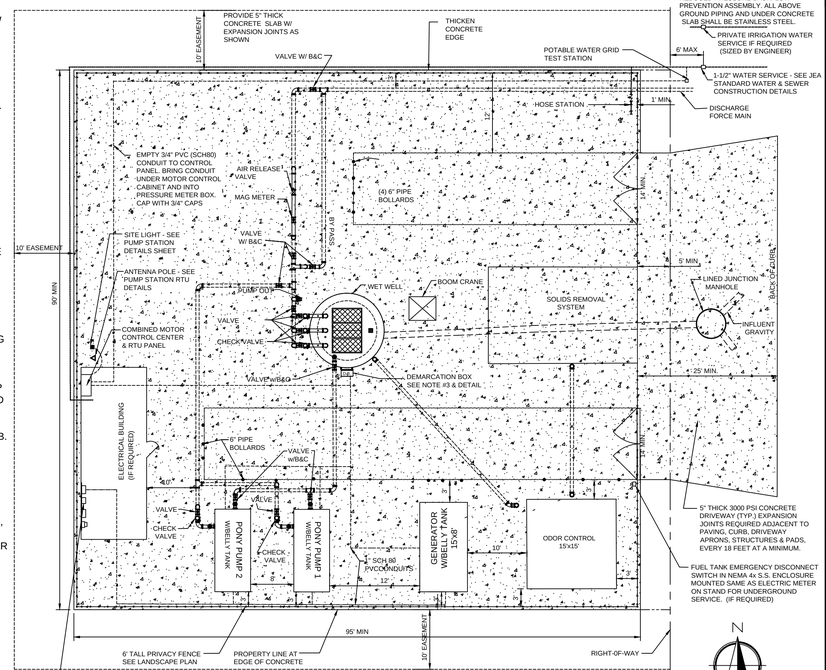
1. ENGINEER SHALL USE THIS PLAN AS A BASIS OF DESIGN FOR SITE SPECIFIC PUMP STATION. THESE NOTES TO BE ERASED ON COMPLETED DRAWING.
2. TRIPLEX PUMP STATION SHALL BE USED FOR PUMP FLOW GREATER THAN 1000 G.P.M.
3. BUILDING REQUIRED FOR CLASS 3 IF PUMPS ARE 76-200HP OR FLA >= 400 A OR > 3 PUMPS.
4. WETWELL SIZE: 8" AND SMALLER PUMP DISCHARGE 10'-0" I.D. MIN., 27' DEEP MAX. 10" AND LARGER PUMP DISCHARGE 12'-0" I.D. MIN., 27' DEEP MAX.
5. MINIMUM FLOW RATE: 500 GPM EACH PUMP
6. MINIMUM ELECTRIC SERVICE SIZE: 230 VOLT, 200 AMP., 3 PHASE, 4 WIRE
7. MINIMUM CONCRETE PAD SIZE: 95'x90'
8. MINIMUM JUNCTION MANHOLE SIZE: 5'-0" I.D. LOCATE ON SAME SIDE OF DRIVEWAY AS PUMP-OUT CONNECTION.

IT IS THE ENGINEER'S RESPONSIBILITY TO DESIGN THE SITE TO MEET FUNCTIONALITY AND SITE SPECIFIC CONDITIONS. HOWEVER, THE ENGINEER SHALL MAKE EVERY EFFORT TO CONFORM TO THE STANDARD DRAWING SHOWN HERE.

9. HOW TO DETERMINE TOWER OR POLE FOR SCADA (SEE ALSO SPEC SECTION 433): TO DETERMINE IF A POLE OR TOWER IS REQUIRED A RADIO PATH STUDY MUST FIRST BE CONDUCTED. THE RADIO PATH STUDY MUST BE DONE USING THE SAME TYPE OF RADIO USED IN THE SCADA PANEL AND MUST BE A MINIMUM OF -86DB RSSI. IF THE HEIGHT OF THE MINIMUM -86DB RSSI LEVEL IS LESS THAN OR EQUAL TO 20 FEET THEN A 20 FOOT POLE CAN BE USED. IF THE HEIGHT REQUIREMENTS ARE OVER 20 FEET THEN A TOWER MUST BE USED.
9. THE PUMP STATION TOP ELEVATION SHALL BE SET AT A MINIMUM OF 1' ABOVE THE "R" ELEVATION. THE "R" ELEVATION SHALL BE EQUAL TO THE DESIGN HIGH WATER LEVEL OR THE 100 YEAR FLOOD ELEVATION, WHICHEVER IS HIGHER.
10. FLOW METER: MAG METER WILL BE DESIGNED BY THE ENGINEER.
11. THE ENGINEER WILL DERIVE THE BEST OPTION FOR SOLID REMOVAL FOR THE SUBMERSIBLE PUMP STATION.

CONSTRUCTION NOTES:

1. SLOPE CONCRETE TO DRAIN TOWARDS STREET OR OTHER ADJACENT CITY OR JEA OWNED DRAINAGE FACILITY.
2. CONTRACTOR MUST MAINTAIN LANDSCAPING UNTIL FINAL ACCEPTANCE AND SUPPLY ONE (1) YEAR WARRANTY FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.
3. DEMARCATION BOX SHALL BE PLACED AS CLOSE AS POSSIBLE TO WETWELL. IT SHALL BE PLACED SO AS NOT TO INTERFERE WITH ACCESS TO THE WETWELL OR DISCHARGE APPARATUS, AND DOOR SHALL FACE AWAY FROM WETWELL.
4. SEE GROUNDING PLAN FOR ELECTRICAL SERVICE GROUNDING REQUIREMENTS (SEE JEA.COM).
5. CONTRACTOR MUST KEEP COMPANY SIGN AND PHONE NUMBER ON FENCE UNTIL STATION ACCEPTED.



FOR PEAK FLOWS BETWEEN 1001 AND 2000 GPM
CLASS THREE PUMP STATION W/ SOLIDS REMOVAL SITE PLAN
NOT TO SCALE

SITE SPECIFIC

NO.	BY	DATE	REVISIONS
6			
5			
4			
3			
2			
1			

DESIGNER:
DRAWN BY:
DATE:
CHECKED BY:
DATE:
DESIGN ENGINEER:
FLORIDA REGISTRATION NO.

JEA Building Community sm

JEA STANDARD
CLASS THREE PUMP STATION
FOR PEAK FLOWS BETWEEN 1001-2000 GPM
PLAN AND SECTION

PROJ. NO.
DATE:
SCALE:
NO. SHEETS
SHEET NO.
DRAWING NO.

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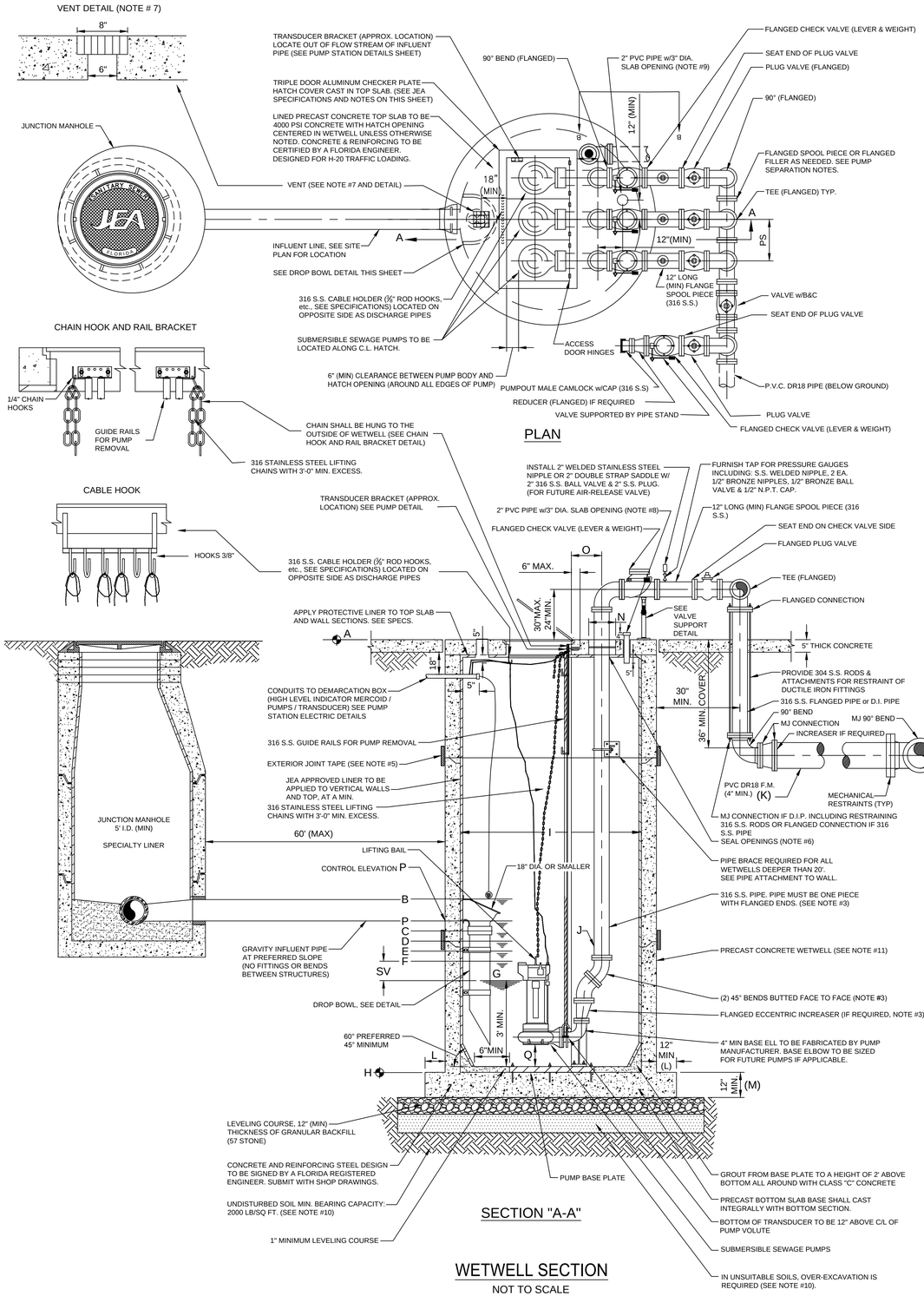


PUMP STATION INFORMATION
SCHEDULE OF ELEVATIONS

PUMP STATION STREET ADDRESS	TOP ELEV (NOTE 9)	MERCOID LEVEL	ALARM ELEVATION	2nd LAG PUMP ON ELEVATION	1st LAG PUMP ON ELEVATION	LEAD PUMP ON ELEVATION	PUMP OFF ELEVATION	BOTTOM ELEVATION (NOTE 1)	WET WELL DIA.	DISCHARGE PIPE DIA.	DISCHARGE F.M. DIA.	BOTTOM SLAB OVERHANG	BOTTOM SLAB THICKNESS (INCHES)	PER HOLE DIA. (SEE NOTES)	LEFT BLANK	CONTROL ELEVATION	PUMP SUCTION CLEARANCE (INCHES)	SITE FLOOD ELEVATION (DESIGN NOTE 9)	HATCH SIZE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
	R + 1.0	P + 0.5'	P - 0.5'	P - 1.0'	P - 1.5'	P - 2.0'	F - SV	G - 3'	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

	ALL PUMPS			
PUMP MANUFACTURER	WILO/EMU	FLYGT	HYDROMATIC	KSB
MODEL	---	---	---	---
IMPELLER	---	---	---	---
PUMP DISCHARGE	---	---	---	---
MOTOR (RPM)	---	---	---	---
HORSEPOWER (HP)	---	---	---	---
PHASE/VOLT/AMPS (NOTE #3)	---	---	---	---
AIC (SEE NOTE #4)	---	---	---	---
DESIGN POINT (GPM) @ TDH (FT)	---	---	---	---
RUNOUT POINT (GPM) @ TDH (FT)	---	---	---	---
EMERGENCY MAIN	---	---	---	---
NORMAL SERVICE MAIN	---	---	---	---
CB #1 TO PUMP NO. 1	---	---	---	---
CB #2 TO PUMP NO. 2	---	---	---	---
CONTROL PANEL MCB	---	---	---	---
CONTROL PANEL ECB	---	---	---	---
GENERATOR RECEPTACLE	---	---	---	---
STARTER (SIZE & TYPE)	---	---	---	---
ELECTRIC SERVICE (TYPE & SIZE)	---	---	---	---
GENERATOR MODEL	---	---	---	---
---	---	---	---	---
---	---	---	---	---

PUMP STATION INFORMATION NOTES:

1. "SV" = STORAGE VOLUME PER DESIGN ENGINEER AND SHALL BE DESIGNED FOR 12 MINUTE CYCLE TIME, MINIMUM STORAGE DEPTH SHALL BE 24".
2. IF PUMP MANUFACTURER REQUIRES A GREATER SEPARATION, THAT SEPARATION SHALL BE USED WITH THE ADDITION OF FLANGED FILLERS OR SPOOL PIECES. THE DIFFERENT SEPARATION MUST BE APPROVED BY JEA PRIOR TO CONSTRUCTION AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO JEA.
3. ALL PUMP MOTORS SHALL BE 3 PHASE.
4. AMPERE INTERRUPTING CAPACITY (AIC): CONTACT ELECTRICAL UTILITY FOR THIS DATA.
5. A GENERATOR RECEPTACLE TO BE INSTALLED REGARDLESS IF GENERATOR IS PRESET UP TO 400 AMPS.

DISCHARGE PIPE DATA (WITHIN WET WELL)

PIPE SIZE	PIPE HOLE DIA.	PUMP SEPARATION	MIN PUMPOUT SIZE	HATCH SIZE (MIN.)
(J)	(N)	(PS)	(PO)	
4"	10"	26"	4"	---
6"	12"	32"	6"	---
FREE STANDING PUMP OUT FOR PIPE SIZES GREATER THAN 6"				
8"	15"	36"	8"	---
10"	17"	44"	10"	---
12"	20"	48"	12"	---
14" & LARGER	-	-	14" & LARGER	---

WET WELL DIMENSIONS

WET WELL I.D.	WALL THICKNESS (MIN)	TOP SLAB THICKNESS (MIN)
10'-0"	1'-0"	1'-0"
12'-0"	1'-0"	1'-0"

MCC PANEL

THE COMBINED MOTOR CONTROL AND RTV PANEL SHALL BE AS NOTED BELOW. CONTRATOR SHALL SUBMIT APPLICABLE SHOP DRAWING PACKAGE,SEE JEA.COM FOR DETAILS.

- ☐ FIXED SPEED PANEL: 240/120 VOLT, 3 PHASE, OPEN DELTA, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ FIXED SPEED PANEL:: 480 VOLT, 3 PHASE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ 1P-3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, FULL VOLTAGE MOTOR STARTING, 15 STARTS PER HOUR
- ☐ 3P VFD PANEL:: 480/277 VOLT, 3 PHASE, WYE, REDUCED VOLTAGE MOTOR STARTING, 10 STARTS PER HOUR

PONY PUMP	
MANUFACTURE	
MODEL	
FLOW GPM @ TDH	
RPM	
NPSHR	
ENGINE H.P.	
SUCTION PIPE SIZE	
DISCHARGE PIPE SIZE	

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH SPECIFICATIONS, SECTION 433, "SUBMERSIBLE SEWAGE PUMPING STATIONS" IN JEA WATER AND SEWER STANDARDS MANUAL.
2. PENETRATION SOIL BORING INFORMATION, TAKEN AT WETWELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN SUBMITTAL. SOIL BORING SHALL BE A MINIMUM OF 15' DEEPER THAN WETWELL BOTTOM OR UNTIL SUITABLE SOIL IS LOCATED UP TO A MAXIMUM OF 25' BELOW WET WELL BOTTOM.
3. PIPING WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL, (SCHEDULE 10, ONE PIECE CONSTRUCTION). FITTINGS WITHIN THE WET WELL SHALL BE FLANGED 316 STAINLESS STEEL. BUTT WELDING OF PIPING IS NOT ALLOWED. ALL NUTS, BOLTS AND ACCESSORIES WITHIN THE WET WELL SHALL BE 316 STAINLESS STEEL.
4. FITTINGS OUTSIDE OF THE WET WELL AND ABOVE GROUND SHALL BE EITHER STAINLESS STEEL (FLANGED, SCHEDULE 10). ALL WELD-ON FLANGES SHALL BE 150# RF SOCKET-WELD FLANGE. ALL BOLTS, WASHERS AND NUTS SHALL BE 316 STAINLESS STEEL AND SHALL BE COATED WITH "NEVER SEIZE" TYPE COATING.
5. ALL EXTERIOR JOINTS OF PRECAST CONCRETE WET WELLS SHALL BE SEALED WITH A 12" WIDE RUBBERIZED ASPHALT MEMBRANE TAPE. (SEE JEA SPEC).
6. THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED w/ EUCOLASTIC BY EUCLID CITEM CO. OR APPROVED EQUAL SEAL. ALL OHTER OPENINGS IN CONCRETE TOP WITH NON-SHRINK GROUT, EXCEPT AS DESCRIBED IN NOTE #5. PROVIDE INSECT SCREEN SECURED TO TOP.
7. PROVIDE HOLE IN TOP AND INSERT 8" x 8" ALUMINUM GRATE VENT CONSTRUCTED OF 1 ¾" WIDE x ⅜" THICK PLATE. PROVIDE 6" x 6" OPENING THROUGH CONCRETE TOP.
8. PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM). SEAL AROUND CONCRETE TOP WITH NON-SHRINK GROUT. IN THE FUTURE, THIS PIPE WILL BE UTILIZED FOR THE CONSTRUCTION OF THE AIR-RELEASE VALVE PIPING.
9. SITE GRADE IS 6" (MIN) BELOW TOP ELEVATION OF PUMP STATION SLAB.
10. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).
11. PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD, ENTIRE INSIDE SURFACE OF WETWELL & TOP SLAB SHALL BE LINED WITH APPROVED LINER. LINER INSTALLER MUST BE CERTIFIED BY LINER MANUFACTURER. SUBMIT CERTIFICATION WITH SHOP DRAWING SUBMITTAL. SEE SPECIFICATIONS. THE EXCAVATED HOLE SHALL BE DRY (DE-WATERED) DURING THE WET WELL INSTALLATION. (SEE WET WELL DIMENSIONS TABLE)
12. SEE JEA STANDARD SHEETS (AVAILABLE AT JEA.COM) FOR CONSTRUCITON DETAILS OF SPECIFIC COMPONENTS, INCLUDING ELECTRICAL.

DESIGN NOTES:

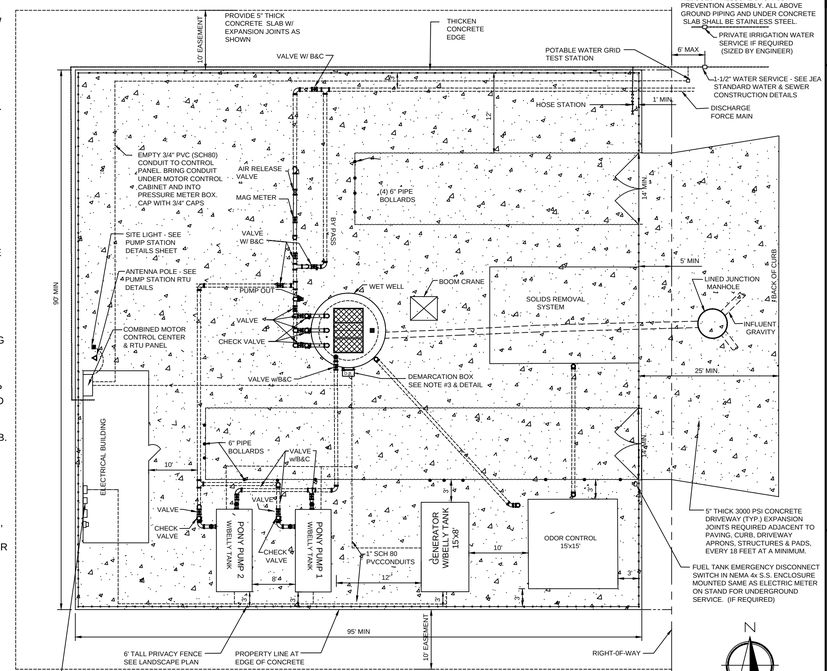
1. ENGINEER SHALL USE THIS PLAN AS A BASIS OF DESIGN FOR SITE SPECIFIC PUMP STATION. THESE NOTES TO BE ERASED ON COMPLETED DRAWING.
2. TRIPLEX PUMP STATION SHALL BE USED FOR PUMP FLOW GREATER THAN 1000 G.P.M.
3. BUILDING REQUIRED FOR CLASS 3 IF PUMPS ARE 76-200HP OR FLA >= 400 A OR > 3 PUMPS.
4. WETWELL SIZE: 8" AND SMALLER PUMP DISCHARGE 10'-0" I.D. MIN., 27' DEEP MAX. 10" AND LARGER PUMP DISCHARGE 12'-0" I.D. MIN., 27' DEEP MAX.
5. MINIMUM FLOW RATE: 500 GPM EACH PUMP
6. MINIMUM ELECTRIC SERVICE SIZE: 230 VOLT, 200 AMP, 3 PHASE, 4 WIRE
7. MINIMUM CONCRETE PAD SIZE: 9'5'x9'
8. MINIMUM JUNCTION MANHOLE SIZE: 5'-0" I.D. LOCATE ON SAME SIDE OF DRIVEWAY AS PUMP-OUT CONNECTION.

IT IS THE ENGINEER'S RESPONSIBILITY TO DESIGN THE SITE TO MEET FUNCTIONALITY AND SITE SPECIFIC CONDITIONS. HOWEVER, THE ENGINEER SHALL MAKE EVERY EFFORT TO CONFORM TO THE STANDARD DRAWING SHOWN HERE.

9. HOW TO DETERMINE TOWER OR POLE FOR SCADA (SEE ALSO SPEC SECTION 433): TO DETERMINE IF A POLE OR TOWER IS REQUIRED A RADIO PATH STUDY MUST FIRST BE CONDUCTED. THE RADIO PATH STUDY MUST BE DONE USING THE SAME TYPE OF RADIO USED IN THE SCADA PANEL AND MUST BE A MINIMUM OF -86DB RSSI. IF THE HEIGHT OF THE MINIMUM -86DB RSSI LEVEL IS LESS THAN OR EQUAL TO 20 FEET THEN A 20 FOOT POLE CAN BE USED. IF THE HEIGHT REQUIREMENTS ARE OVER 20 FEET THEN A TOWER MUST BE USED.
9. THE PUMP STATION TOP ELEVATION SHALL BE SET AT A MINIMUM OF 1' ABOVE THE "R" ELEVATION. THE "R" ELEVATION SHALL BE EQUAL TO THE DESIGN HIGH WATER LEVEL OR THE 100 YEAR FLOOD ELEVATION, WHICHEVER IS HIGHER.
10. FLOW METER: MAG METER WILL BE DESIGNED BY THE ENGINEER.
11. THE ENGINEER WILL DERIVE THE BEST OPTION FOR SOLID REMOVAL FOR THE SUBMERSIBLE PUMP STATION.

CONSTRUCTION NOTES:

1. SLOPE CONCRETE TO DRAIN TOWARDS STREET OR OTHER ADJACENT CITY OR JEA OWNED DRAINAGE FACILITY.
2. CONTRACTOR MUST MAINTAIN LANDSCAPING UNTIL FINAL ACCEPTANCE AND SUPPLY ONE (1) YEAR WARRANTY FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.
3. DEMARCATION BOX SHALL BE PLACED AS CLOSE AS POSSIBLE TO WETWELL. IT SHALL BE PLACED SO AS NOT TO INTERFERE WITH ACCESS TO THE WETWELL OR DISCHARGE APPARATUS, AND DOOR SHALL FACE AWAY FROM WETWELL.
4. SEE GROUNDING PLAN FOR ELECTRICAL SERVICE GROUNDING REQUIREMENTS (SEE JEA.COM).
5. CONTRACTOR MUST KEEP COMPANY SIGN AND PHONE NUMBER ON FENCE UNTIL STATION ACCEPTED.



FOR PEAK FLOWS GREATER THAN 2000 GPM
CLASS FOUR PUMP STATION W/ SOLIDS REMOVAL SITE PLAN
NOT TO SCALE

SITE SPECIFIC

NO.	BY	DATE	REVISIONS
6			
5			
4			
3			
2			
1			

DESIGNER:
DRAWN BY:
DATE:
CHECKED BY:
DATE:

DESIGN ENGINEER:
FLORIDA REGISTRATION NO.

JEA
Building Community Sm

JEA STANDARD
CLASS FOUR PUMP STATION
FOR PEAK FLOWS GREATER THAN 2000 GPM
PLAN AND SECTION

PROJ. NO.
DATE:
SCALE:

NO. SHEETS
SHEET NO.
DRAWING NO.

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LANDSCAPE NOTES:

1. APPROVED CLUSTER NON-SHADE TREES, (PER CITY OF JACKSONVILLE CODE 656.12.11) TO BE PROVIDED AT JEA PUMPING STATIONS. TREES TO BE PLANTED 12' O.C. MULTI-TRUNK VARIETIES TO BE MIN. 8' HEIGHT AND 3 TRUNK MINIMUM TOTALING 2" CALIPER. SINGLE TRUNK TREES TO BE MIN. 10' HEIGHT AND 2" CALIPER AT TIME OF PLANTING.

COMMON NAME	BOTANICAL NAME
YAPOUN HOLLY	ilex vomitoria
JAPANESE PRIVET	ligustrum japonicum
DAHOON HOLLY	ilex cassine
NELLY STEVENS HOLLY	ilex 'nellie r. stevens'
CRAPE MYRTLE	lagerstroemia indica
DOG WOOD	cornus florida
REDBUD	cercis canadensis\

2. ALL SHRUBS SHALL BE EVERGREEN A ROW OF EVERGREEN SHRUBS SHALL BE A MINIMUM 3' TALL AT TIME OF PLANTING, PLANTED AT 3' ON CENTER.

3. APPROVED SHRUBS INCLUDE ANY OF THE FOLLOWING:

COMMON NAME	BOTANICAL NAME
SWEET VIBURNUM	viburnum odoratissium
DWARF WALTERS VUBURNUM	viburnum obuvatum
SAW PALMETTO	serenoa repens
JAPANESE PRIVETT	ligustrum janonicum
HETZII OR PHTIZERANA	junipurcus chinensis
DWARF BUFORD HOLLY	ilex cornuta 'Buford'
STAR ANISE	illicium spp.

4. ALL LANDSCAPING SHALL BE CONSISTENT WITH FLORIDA FRIENDLY LANDSCAPE STANDARDS. TREES AND SHRUBS SHALL BE SELECTED FROM THE FLORIDA WATERWISE PLANT LIST AND BE APPROPRIATE TO THE LOCAL SOIL AND LIGHT CONDITIONS.

NOTE: JEA NEIGHBORHOOD PUMP STATION WITHIN DUVAL COUNTY

(A.) LANDSCAPE PERFORMANCE STANDARDS (SEC. 656.1223)
THE VISUAL IMPACTS OF THE BELOW GROUND PUMP STATION SITES SHALL BE MITIGATED THROUGH THE USE OF A LANDSCAPING BUFFER OUTSIDE THE SECURITY FENCE. THE BUFFER SHALL BE A MINIMUM OF 5' AT THE STREET FRONTAGE AND A MINIMUM OF 10' ON ALL OTHER SIDES AND SUBJECT TO AND CONSISTING OF THE FOLLOWING:

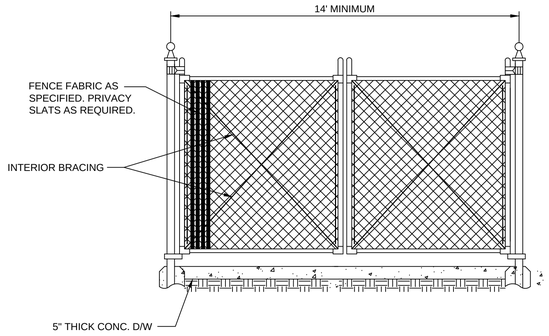
(1) A ROW OF SHADE TREES, BEGINNING AT THE HALFWAY POINT ALONG EACH SIDE FENCE AND ACROSS THE BACK, WITH NO TREES ALLOWED IN THE FRONT OF THE PUMP STATION, PLANTED A MINIMUM OF 25' ON CENTER. AT THE TIME OF PLANTING, THE TREES SHALL BE MINIMUM OF 10' TALL WITH A 2" CALIPER, AND

(2) A ROW OF EVERGREEN SHRUBS SUCH AS VIBURNUM, LIGUSTRUM, HOLLY OR JUNIPER, OR ANY OTHER EVERGREEN SHRUB PERMITTED BY SECTION 656.1223, A MINIMUM OF 3' TALL AT TIME OF PLANTING. PLANTED AT 3' ON CENTER; AND

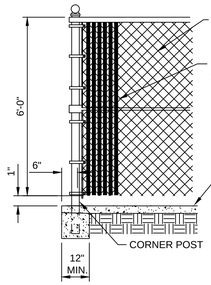
(3) A 6' TALL PRIVACY FENCE WITH BLACK VINYL PRIVACY SLATS AND A MINIMUM 14' WIDE PRIVACY GATE.

(4) THE REQUIRED LANDSCAPING SHALL BE PROPERLY MAINTAINED THROUGH AN IRRIGATION SYSTEM WITH RAIN SENSOR.

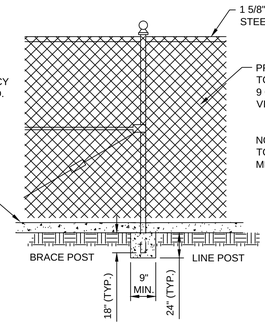
(B) DEVIATIONS FROM THE STANDARDS IN SUBSECTION (A) MUST BE REVIEWED AND APPROVED BY JEA AND BY THE CITY OF JACKSONVILLE LANDSCAPE ARCHITECT.



DOUBLE GATE DETAIL



CORNER POST DETAIL



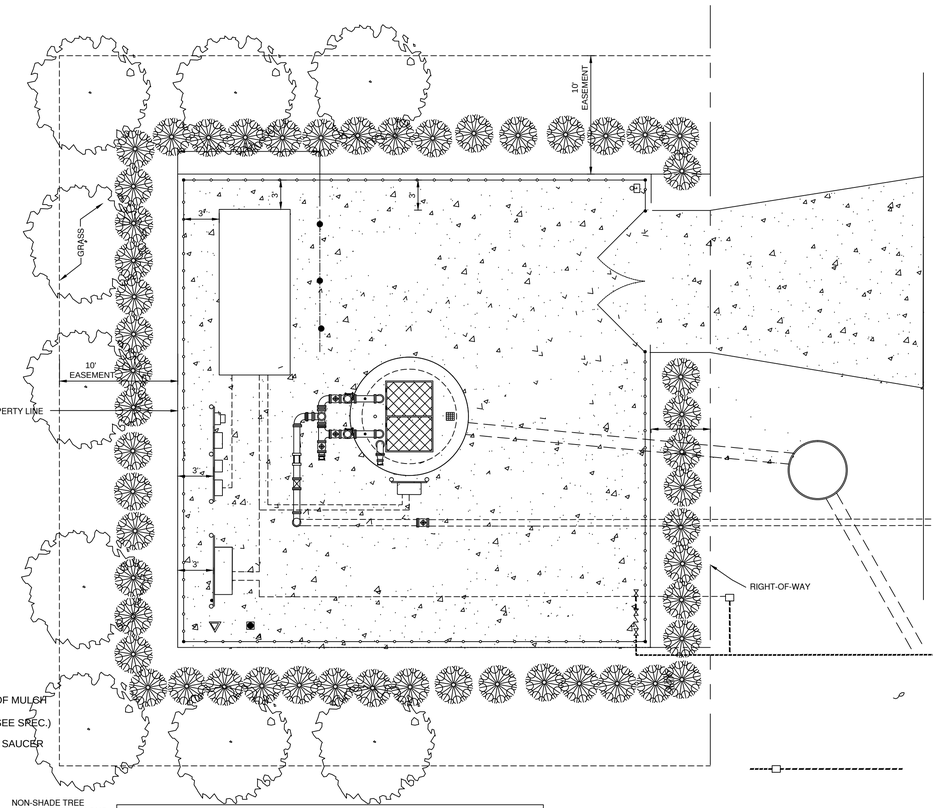
LINE POST DETAIL

FENCE DETAILS

NOT TO SCALE

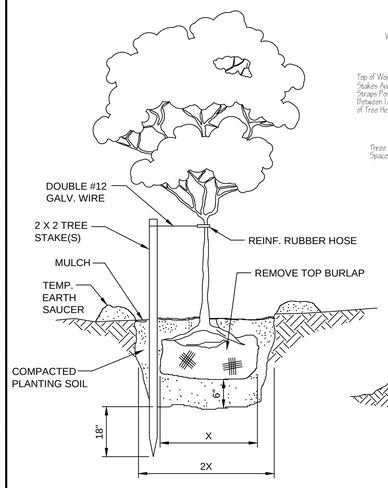
FENCE NOTES

1. FENCE TO BE INSTALLED AS INDICATED ON SITE PLAN.
2. GATE POST TO BE 4" O.D. PVC COATED GALVANIZED STEEL PIPE. CORNER POST TO BE 3" O.D. PVC COATED GALVANIZED STEEL PIPE. LINE POST TO BE 2 1/2" O.D. PVC COATED GALVANIZED STEEL PIPE.
3. ALL FENCE SHALL BE GROUNDED IN ACCORDANCE WITH JEA GROUNDING STANDARDS.
4. BONDING WIRE BETWEEN GATE POST IS NOT REQUIRED WHERE EXISTING ROAD PAVING OR RAILROAD TRACKS WOULD MAKE INSTALLATION IMPRACTICAL.
5. ALL FENCING SHALL BE IN ACCORDANCE WITH JEA SPECIFCATION NO. 492.
6. EMBEDDED CONCRETE PORTION OF FENCE POST SHALL HAVE MASTIC SEAL OR EQUAL COATING TO A MINIMUM OF 6" ABOVE FINISH GRADE.
7. A DOUBLE 14' WIDE SLIDE GATE. IS AN ACCEPTABLE OPTION.
8. FENCE FABRIC SHALL BE KNUCKLED ON TOP AND TWIST ON BOTTOM.
9. ALL FENCING, RAILS, POSTS, BRACKETS, BOLTS ETC. WILL BE PVC COATED



DESIGN NOTES:

1. LANDSCAPE ARCHITECT SHALL USE THIS PLAN AS A BASIS OF DESIGN FOR SITE SPECIFIC PUMP STATION. THESE NOTES TO BE ERASED ON COMPLETED DRAWING.

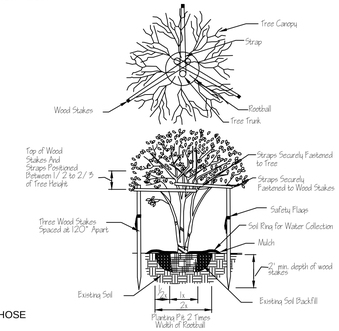


NOTES:

1 STAKE FOR TREES 2" CAL. & LESS
2 STAKES FOR TREES 2 1/2" - 4" CAL.
3 STAKES FOR TREES GREATER THAN 4" CAL.

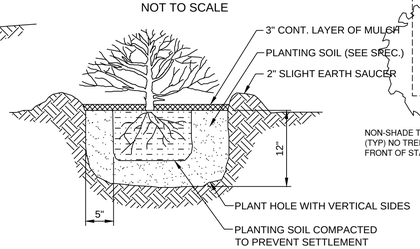
TREE PLANTING DETAIL

NOT TO SCALE



MULTI-TRUNK TREE PLANTING

NOT TO SCALE



NOTE: REMOVE CONTAINER BEFORE PLANTING.

CONTAINER GROWN SHRUB DETAIL

NOT TO SCALE

STANDARD CLASS ONE PUMP STATION SITE PLAN W/GENERATOR

STANDARD LANDSCAPE PLAN

SCALE: 1"=5'

N

5 0 5

SCALE IN FEET

PLANTING NOTES:

1. JEA IS NOT REQUIRED TO PLANT ANY LANDSCAPING OUTSIDE OF THE PROPERTY LINE. THIS DRAWING REPRESENTS THE MINIMUM AMOUNT OF LANDSCAPING REQUIRED IF LANDSCAPING IS PROVIDED WITHIN THE 10' EASEMENT. HOWEVER, ADDITIONAL PLANTINGS WILL BE ALLOWED IN THE 10' EASEMENT WITH APPROVAL FROM JEA, OR JEA'S REPRESENTATIVE.
2. JEA IS NOT RESPONSIBLE FOR THE MAINTENANCE OF LANDSCAPE MATERIAL OUTSIDE OF THE PROPERTY LINE. IF LANDSCAPING IS REQUIRED BY OTHER GOVERNMENT AGENCIES, THE REQUIRED LANDSCAPING SHALL BE INSTALLED IN THE 10' EASEMENT BY THE DEVELOPER AND MAINTAINED BY THE UNDERLYING LAND OWNER.
3. IT IS NOT THE RESPONSIBILITY OF JEA TO PROVIDE IRRIGATION WITHIN THE 10' EASEMENT. HOWEVER, JEA WILL ALLOW IRRIGATION WITHIN THE EASEMENT WITH THE UNDERSTANDING THAT SUCH IRRIGATION IS MAINTAINED BY THE CONTRACTOR RESPONSIBLE, OR OTHER RESPONSIBLE PARTY, SUCH AS A HOMEOWNERS ASSOCIATION (H.O.A.). IF AN RESPONSIBLE PARTY, OR H.O.A. IS NOT INVOLVED IN THE PUMP STATION SITE, ONLY THEN WILL JEA BE RESPONSIBLE FOR PROVIDING AN IRRIGATION SYSTEM. WHEN IRRIGATION IS REQUIRED BY OTHER GOVERNMENT AGENCIES, THE RESPONSIBLE PARTY WILL PROVIDE AN IRRIGATION SYSTEM WITH A RAIN SENSOR IN ACCORDANCE WITH SPECIFICATIONS SECTION 433. THE TREES SHALL BE IRRIGATED WITH BUBBLERS, THE SHRUBS WITH A MICRO IRRIGATION SYSTEM AND SOD WITH SPRAY HEADS.

   FOR STATION WITHIN DUVAL COUNTY, THE TREES, SHRUBS AND SOD SHALL ALL BE IRRIGATED ON SEPARATED ZONES. SPRAYS, ROTORS OR MICRO IRRIGATION ARE NOT PERMITTED ON SAME ZONE. SEE COJ CODE 656.1212.
4. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT SITE CONDITIONS AND ALL QUANTITIES INDICATED ON THESE PLANS, BEFORE PRICING WORK.
5. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER NURSERY GROWN IN ACCORDANCE TO FLORIDA GRADES AND STANDARDS HANDBOOK.
6. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECTS, EGGS OR LARVAE AND SHALL HAVE HEALTHY, WELL DEVELOPED ROOT SYSTEMS. THEY SHALL BE FREE FROM PHYSICAL DAMAGE OR ADVERSE CONDITIONS THAT WOULD PREVENT THRIVING GROWTH.
7. ALL PLANTS MUST BE CONTAINER GROWN OR AS INDICATED IN THE PLANT LIST.
8. ALL PLANTS SHALL CONFORM TO THE VARIETIES INDICATED IN THE PLANT LIST.
9. SUBSTITUTION OF PLANT MATERIALS WILL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY JEA, AGENCY LANDSCAPE ARCHITECT OR THE ENGINEER.
10. PLANT MATERIAL LOCATIONS AND BED OUTLINES SHALL BE STAKED OR FLAGGED ON SITE BY THE CONTRACTOR AND SHALL BE ADJUSTED IF REQUIRED TO FIT ACTUAL AS-BUILT CONDITIONS ON SITE AND APPROVED BY JEA OR JEA'S REPRESENTATIVE.
11. ALL PROPOSED TREE PLANTING LOCATIONS SHALL BE STAKED OR FLAGGED BEFORE INSTALLATION BY THE LANDSCAPE CONTRACTOR AND APPROVED BY JEA OR JEA'S REPRESENTATIVE.
12. ALL CONTAINER GROWN ROOTBALLS SHALL BE CAREFULLY SCOURED BEFORE SETTING IN PLANT PITS.
13. ALL BACKFILL AROUND PLANT MATERIAL SHALL BE WORKED FIRMLY, TAMPED AND WATERED IN UNDER AND AROUND THE ROOT BALL TO FILL ALL VOIDS.
14. LANDSCAPE CONTRACTOR SHALL BEAR FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS. ANY DISCREPANCY IN THE DRAWINGS, OBSTRUCTION ON THE SITE, OR PRIOR TO WORK DONE BY ANY OTHER PARTY, WHICH THE CONTRACTOR FEELS PRECLUDES ESTABLISHING PROPER DRAINAGE SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER FOR CORRECTION OR RELIEF OF SAID RESPONSIBILITY.
15. PLANTING BEDS SHALL BE CUT OR EDGED TO FORM A UNIFORM CLEAN LINE BETWEEN BEDS AND LAWN AREAS.
16. AFTER ALL PLANT MATERIAL IN A PLANT BED AREA HAS BEEN INSTALLED AND APPROVED, THE AREAS BETWEEN PLANTS SHALL BE RAKED TO AN EVEN GRADE TO CONFORM TO PRE MULCHING FINISH GRADES. ALL PLANTING BEDS AND PLANT SAUCERS SHALL THEN BE UNIFORMLY COVERED WITH A MINIMUM THREE INCH LAYER OF #2 GRADE OR BETTER CYPRESS MULCH, PINE STRAW OR OTHER JEA ACCEPTABLE MATERIAL.
17. PLANT MATERIAL BACKFILL MIXTURE SHALL BE THOROUGHLY MIXED IN THE FOLLOWING PREPARATIONS:

50% EXISTING CLEAN TOPSOIL	1/3 TOPSOIL
50% SOIL MIX	1/3 PEAT
	1/3 COW MANURE

18. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL FINE GRADING PREPARATION FOR PLANTING.
19. ROUGH GRADES WILL BE ESTABLISHED BY THE OWNERS GENERAL CONTRACTOR AT APPROXIMATELY 3 INCHES BELOW CURBS, SIDEWALKS, HARDSCAPE AMENITIES, MOWING STRIPS AND ABUTMENTS.
20. THE JEA OR JEA'S REPRESENTATIVE SHALL HAVE THE RIGHT TO REJECT ANY AND ALL WORK WHICH IN HIS OPINION DOES NOT MEET WITH THE REQUIREMENTS OF THE SPECIFICATIONS AT ANY STAGE OF THE PROJECT OPERATION.
21. IN GENERAL, THE WORK SHALL PROCEED AS RAPIDLY AS THE SITE BECOMES AVAILABLE. KEEP ALL AREAS OF WORK CLEAN, NEAT, AND ORDERLY AT ALL TIMES.
22. THERE WILL BE SPECIAL CARE TO ALL EXISTING TREES TO BE RETAINED ON SITE TO AVOID CONSTRUCTION DAMAGE.
23. A BACKFLOW PREVENTION SHALL BE INSTALLED AS REQUIRED.
24. AFTER THE LANDSCAPE PLAN IS APPROVED BY THE GOVERNMENTAL AGENCY ANY SUBSEQUENT CHANGES MUST BE RESUBMITTED FOR REVIEW AND APPROVAL.

SITE SPECIFIC

NO.	BY	DATE	REVISIONS
6.			
5.			
4.			
3.			
2.			
1.			

DESIGN ENGINEER

FLORIDA REGISTRATION NO.

DESIGNED:
DRAWN BY:
DATE:
CHECKED BY:
DATE:

JEA
Building Community sm

JEA STANDARD
PUMP STATION
LANDSCAPE PLAN

NO. SHEETS
SHEET NO.
DRAWING NO.

PROJ. NO.
DATE:
SCALE: