REVISIONS

A

1. "6" THICK CONCRETE

2. IN UNSUITABLE SOILS, OVER-EXCAVATION IS WET WELL SECTION

3. SCALE:

4. DATE:

5. "1" MINIMUM LEVELING COURSE

6. WET WELL LID SHALL UTILIZE STAPLE ASSEMBLY FOR LOCKING THE WET WELL.

7. CAPACITY: 2000 LB/SQ FT. (SEE NOTE)

8. UNDISTURBED SOIL MIN. BEARING METER CAN AND ELECTRICAL PANELS.

9. TRANSFORMERS SHALL BE LOCATED ON THE SAME SIDE OF PROPERTY AS BOTTOM ALL AROUND WITH CLASS "C" CONCRETE

10. UNTIL STATION ACCEPTED.

11. SPECIFICATIONS. (HTTPS://WWW.JEA.COM/ENGINEERING_AND_CONSTRUCTION/FACILITIES/)

12. SEE REFERENCE FACILITIES STANDARDS FOR GENERATOR, ATS, BACKFLOW, BOLLARDS AND PAVEMENT (SEE GROUNDING DETAIL SHEET).

FOR PEAK FLOWS BETWEEN 0 TO 440 GPM

TYP. 6"MIN

FOR PEAK FLOWS BETWEEN 440 TO 880 GPM

45° MINIMUM

3' MIN.

CLASS ONE PUMP STATION

2. HOW TO DETERMINE TOWER OR POLE FOR SCADA (SEE ALSO SPEC SECTION 433):

4. MIN. ELECTRIC SERVICE SIZE:

7. IT IS THE ENGINEER'S RESPONSIBILITY TO DESIGN THE SITE TO MEET FUNCTIONALITY AND SITE SPECIFIC

8. THICKNESS

9. WALL

10. THICKNESS

11. MIN WEIGHT OF STRUCTURE

12. MIN WEIGHT OF EXTENDER (IN)

13. DIA.

14. SIZE

15. FREE STANDING PUMP OUT FOR PIPE SIZES GREATER THAN 6"
STANDARD CLASS ONE PUMP STATION SITE PLAN
FOR PEAK FLOWS BETWEEN 0 TO 440 GPM

SCALE: 1"=10'
FOR PEAK FLOWS BETWEEN 0 TO 440 GPM

STANDARD CLASS ONE PUMP STATION SITE PLAN W/GENERATOR

SCALE: 1' = 10'

DRAWING NO. SHEET NO.

DESIGNER:

DATE:

CHECKED BY:

DATE:

DRAWN BY:

FLORIDA REGISTRATION NO.

PROJ. NO.

JEA STANDARD

CLASS ONE PUMP STATION W/GENERATOR

PLAN AND SECTION

LLOYD HENRY

9/25/2018

UPDATED ELECTRICAL PANEL

SITE SPECIFIC

DEMARCATION BOX

PIPING TIME

DISCHARGE FORCE

MAIN

VALVE

JUNCTION MANHOLE

POWER DISTRIBUTION

PANEL

GENERATOR AUTOMATIC TRANSFER SWITCH

ELECTRIC METER CAN

PANELS SHALL BE NEMA 4X S.S. ENCLOSURE, SEE ELECTRICAL STANDARD DETAIL SHEETS

GENERATOR REMOTE E-STOP SWITCH IN NEMA 4X S.S. ENCLOSURE MOUNTED SAME AS ELECTRIC METER ON STAND FOR UNDERGROUND SERVICE (NEC REQUIRED)

INFLUENT GRAVITY

DISCHARGE FORCE MAIN

LOCAL ELECTRICAL PANEL

GENERATOR AUTOMATIC TRANSFER SWITCH

ELECTRIC METER CAN

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INFLUENT GRAVITY

DISCHARGE FORCE

MAIN

VALVE W/B&C

WET WALL

JUNCTION MANHOLE

POWER DISTRIBUTION PANEL

GENERATOR AUTOMATIC TRANSFER SWITCH

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LOCAL ELECTRICAL PANEL

GENERATOR AUTOMATIC TRANSFER SWITCH
FOR PEAK FLOWS BETWEEN 0 TO 440 GPM

STANDARD CLASS ONE PUMP STATION SITE PLAN W/ STANDBY BACKUP PUMP

SCALE: 1"=10'

STANDARD CLASS ONE PUMP STATION W/ STANDBY BACKUP PUMP

FOR PEAK FLOWS BETWEEN 0 TO 440 GPM
FOR PEAK FLOWS BETWEEN 441 AND 1000 GPM

STANDARD CLASS TWO PUMP STATION SITE PLAN W/STANDBY BACKUP PUMP

SCALE: 1"=10'

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1. PROVIDE 6" THICK CONCRETE SLAB W/ EXPANSION JOINTS
2. THICKEN CONCRETE EDGE
3. PROPERTY LINE AT EDGE OF CONCRETE
4. CHECK VALVE
5. STANDBY BACKUP PUMP

6. DECOMMISSION BOX

7. SITE LIGHT - SEE PUMP STATION DETAILS SHEET
8. ANTENNA POLE - SEE PUMP STATION RTU DETAILS
9. COMBINED MOTOR CONTROL CENTER & RTU PANEL
10. POWER DISTRIBUTION PANEL
11. MANUAL TRANSFER SWITCH
12. ELECTRIC METER CTR

13. PANELS SHALL BE NEMA 4x S.S. ENCLOSURE SEE ELECTRICAL STANDARD DETAIL SHEETS

14. PROPERTY LINE AT EDGE OF CONCRETE

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JEA STANDARD CLASS TWO PUMP STATION SITE PLAN W/STANDBY BACKUP PUMP

PRIVATE IRRIGATION WATER SERVICE IF REQUIRED (SIZED BY ENGINEER)

1-1/2" WATER SERVICE - SEE JEA STANDARD WATER & SEWER CONSTRUCTION DETAILS

6" PVC GRAVITY DRAIN TO WET WELL (SEE STANDARD DETAIL SHEET)

WATER SUPPLY FOR ODOR CONTROL

ULTRASONIC FLOW METER (MAG METER WILL REQUIRE BYPASS SEE MAG METER DETAIL SHEET)
GENERAL NOTES:
1. ALL PUMP STATION PARTS WITH SPECIFICATIONS, SECTION 63, TUMBLERBEDGE DRAIN PIPE SYSTEMS ARE JEA WRAPPED AND SHOVEL STRAINED WHERE REQUIRED.
2. PUMP STATION DETAILS INFORMATION, TAPS AT WET WELL LOCATION, SHALL BE SUBMITTED PRIOR TO DESIGN COMPLETION. PUMP STATION DETAILS SHALL BE BASED ON SITE/ELEVATION RECORDING AND SAP PM JUST BEFORE THE START OF THE CONSTRUCTION (NOTE 1).
3. ALL PIPE SIZING AND MATERIALS OF EXTERNAL TO THE WET WELL SHALL BE PLACED IN SCHEDULE 40, 304 STAINLESS STEEL BUTT WELDING OF ANY PIPING MATERIAL FOR THE MANSFFIXATION OF PIPING IN THE WET WELL DOES ALLOW.
4. SUCTION PIT FITTINGS (SIZING/TEST ETC) WITHIN AND EXTERNAL OF THE WET WELL SHALL BE PLACED SPECIFICALLY LIMED TO CONFORM TO THE STANDARD CONDITIONS. HOWEVER, THE ENGINEER SHALL MAKE EVERY EFFORT TO CONFORM TO THE STANDARD

WET WELL SECTION

FOR PEAK FLOW BETWEEN 1001 AND 2000 GPM
CLASS THREE PUMP STATION SITE PLAN

SECTION "AA"

WET WELL SECTION

NUMBER SHEETS IN UNSUITABLE SOILS, OVER-EXCAVATION IS SUBMERSIBLE SEWAGE PUMPS

18.

METER REQUIRES BYPASS PIPING. SEE ULTRASONIC/MAG METER DETAIL ON MISCELLANEOUS DETAILS SHEET.

FLOW METER SHALL BE ULTRASONIC OR MAG METER. ULTRASONIC FLOW METER REQUIRES A FLOW METER PANEL. MAG

BOTTOM ALL AROUND WITH CLASS "C" CONCRETE GROUT FROM BASE PLATE TO A HEIGHT OF 2' ABOVE SLAB OPENING.

THE VOID AREAS BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED W/EUCOLASTIC BY EUCLID CITEM CO. OR (OR POLYMER)

I.D.

60' (MAX)

12'-0" I.D. MIN., 27' DEEP MAX.

MINIMUM CONCRETE PAD SIZE:

BUILDING REQUIRED FOR CLASS 3 IF PUMPS ARE 76-200HP OR FLA >= 400 A OR > 3 PUMPS.

ENGINEER SHALL DESIGN STANDBY BACKUP PUMP SUCTION PIPING TO MEET STATION PEAK FLOW.

STANDBY BACKUP PUMP SHALL OPERATE IN LEAD LAG CONFIGURATION.

PROVIDE 2" PIPE (PVC, SCH. 80) THROUGH CONCRETE TOP WITH CAPPED TOP AND OPEN END BOTTOM). SEAL AROUND

FROM NURSERY SUPPLYING PLANTS FROM DATE OF ACCEPTANCE.

THICKNESS OF GRANULAR BACKFILL LEVELING COURSE, 12" (MIN)

IF ODOR CONTROL WILL NOT BE INSTALLED UPON COMPLETION THEN CONDUITS AND PIPING SHALL BE STUBBED OUT FOR

PUMP STATION INFORMATION NOTES:

THE USE AREA BETWEEN TOP SLAB AND FORCE MAIN PIPE SHALL BE SEALED W/EUCOLASTIC BY EUCLID CITEM CO. ON CONSTRUCTION, BARIUM SULFIDE SHALL BE USED TO SIMULATE "WHITE" CONSTRUCTION MOLDING. THE DIFFERENT SEPARATION MUST BE

PROCEDURE 8" OF COPING THROUGH THE CONCRETE TOP OF THE WET WELL AND INSERT 4" X 1/2" THICK ALUMINUM IF DOOR CONTROLS WILL NOT BE STANDBOARD PUMP PANEL AND IN.matches THE SELECTION OF THE STATION ELECTRIC DEPARTMENT. STATION ELECTRIC DETAILS

ELEVATION FROM PUMP STATION BASE.

TIME, DATE OF V-TUBE LOCATION (UNLESS OTHERWISE NOTED. CONCRETE, POLYMER & OTHER LAYOUT DETAILS

STANDARD FOR CONSTRUCTION DETAILS OF SPECIFIC COMPONENTS INCLUDING ELECTRICAL.

DOOR CONTROLS WILL NOT BE STANDBOARD PUMP PANEL AND IN.matches THE SELECTION OF THE STATION ELECTRIC DEPARTMENT. STATION ELECTRIC DETAILS

ELEVATION FROM PUMP STATION BASE.

TIME, DATE OF V-TUBE LOCATION (UNLESS OTHERWISE NOTED. CONCRETE, POLYMER & OTHER LAYOUT DETAILS
FOR PEAK FLOWS BETWEEN 1001 AND 2000 GPM

CLASS THREE PUMP STATION SITE PLAN

SCALE: 1"=15'

1. PROVIDE 6" THICK CONCRETE SLAB W/ EXPANSION JOINTS
2. THICKEN CONCRETE EDGE
3. GRAYDRAIN TO WET WELL
4. ULTRASONIC FLOW METER (MAG METER WILL REQUIRE BYPASS SEE MAG METER DETAIL SHEET)
5. REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY. ALL ABOVE GROUND PIPING AND UNDER CONCRETE SLAB SHALL BE STAINLESS STEEL.
6. SITE LIGHT - SEE PUMP STATION DETAIL SHEET
7. INFLUENT Gravity DRAIN TO WET WELL
8. GENERATOR REMOTE E-STOP SWITCH IN NEMA 4X S.S. ENCLOSURE MOUNTED SAME AS ELECTRIC METER ON STAND FOR UNDERGROUND SERVICE. (NEC REQUIRED)
9. PROVIDE 6" THICK 3000 PSI CONCRETE DRIVEWAY 10' MIN. THICKEN CONCRETE EDGE
10. INSTALL VACUUM PIPING FROM WET WELL IF SOLID SYSTEM IS NOT INSTALLED
11. ULTRASONIC FLOW METER PANEL (ONLY REQUIRED FOR ULTRASONIC FLOW METER)
12. PANELS SHALL BE NEMA 4x S.S. ENCLOSURE. SEE ELECTRICAL STANDARD DETAIL SHEETS
FOR PEAK FLOWS GREATER THAN 2000 GPM
CLASS FOUR PUMP STATION W/ SOLIDS REMOVAL SITE PLAN

SCALE: 1"=15'

PROVIDE 6" THICK CONCRETE SLAB W/ EXPANSION JOINTS
ULTRASONIC FLOW METER (BMD) EMBL EMBED AND HYDROSEWER Bypass SYS. (DETAIL SHEETS)
AIR RELEASE VALVE
REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY. ALL ABOVE GROUND PIPING AND UNDER CONCRETE SLAB SHALL BE STAINLESS STEEL.
FLOW METER PANEL (ONLY REQUIRED FOR ULTRASONIC FLOW METER)
DECK CONTROL (BMD STANDARD) (DETAIL SHEET)
6" 90° PIPE VALANCE
VALUE REDUCED TO INLET WELL
WATER SUPPLY FOR VALVE
WATER SUPPLY FOR VALVE
IT IS RECOMMENDED TO INSTALL VACUUM PIPING FROM WET WELL IF SOLID SYSTEM IS NOT INSTALLED
4" PVC GRAVITY DRAIN TO WET WELL
SEE DETAIL
POWER DISTRIBUTION PANEL
GENERATOR BYPASS AUTOMATIC TRANSFER SWITCH
MANUAL TRANSFER SWITCH ELECTRIC METER PANEL
PANELS SHALL BE NEMA 4x S.S. ENCLOSURE. SEE ELECTRICAL STANDARD DETAILS SHEETS
ELECTRICAL BUILDING CHECK VALVE
W/ B&C
VALVE
2' MIN
3' MIN
3' CLEARANCE SPACE
GENERATOR W/BELLY TANK FOOTPRINT MAY VERY
6" BOLLARDS
VALVE W/B&C
3' MIN
12'
18'
25'
30'
35'
40'
45'
50'
55'
60'
65'
70'
75'
80'
85'
90'
95'
100'

POTABLE WATER GRID TEST STATION
HOSE STATION
DISCHARGE FORCE MAIN
VALVE W/ B&C
1' MIN
2' MIN
ULTRASONIC FLOW METER (MAG METER WILL REQUIRE BYPASS SEE MAG METER DETAIL SHEET)
FLOW METER PANEL (ONLY REQUIRED FOR ULTRASONIC FLOW METER)
REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY. ALL ABOVE GROUND PIPING AND UNDER CONCRETE SLAB SHALL BE STAINLESS STEEL.

GENERATOR REMOTE E-STOP SWITCH IN NEMA 4X S.S. ENCLOSURE MOUNTED SAME AS ELECTRIC METER ON STAND FOR UNDERGROUND SERVICE. (NEC REQUIRED)
POWER DISTRIBUTION PANEL
GENERATOR BYPASS AUTOMATIC TRANSFER SWITCH
MANUAL TRANSFER SWITCH ELECTRIC METER PANEL
PANELS SHALL BE NEMA 4x S.S. ENCLOSURE. SEE ELECTRICAL STANDARD DETAILS SHEETS
ELECTRIC METER CAN
MANUAL TRANSFER SWITCH
STANDBY BACKUP PUMP 1
W/BELLY TANK
CHECK VALVE
STANDBY BACKUP PUMP 2
W/BELLY TANK
CHECK VALVE
3'
8'

FOR PEAK FLOWS GREATER THAN 2000 GPM
CLASS FOUR PUMP STATION W/ SOLIDS REMOVAL SITE PLAN

SCALE: 1"=15'
1. LANDSCAPE PLAN


3. PLANT MATERIAL LOCATIONS AND BED OUTLINES SHALL BE STAKED OR FLAGGED ON SITE BY THE RESPONSIBLE PARTY WILL PROVIDE AN IRRIGATION SYSTEM WITH A RAIN SENSOR IN ACCORDANCE WITH SECTION 220-116.3036. THE TREES SHALL BE PLANTED WITHIN 10' EASEMENT BY THE DEVELOPER AND MAINTAINED BY THE LANDSCAPING SHALL BE INSTALLED IN THE 10' EASEMENT BY THE DEVELOPER AND MAINTAINED BY THE PROPERTY LINE. IF LANDSCAPING IS REQUIRED BY OTHER GOVERNMENT AGENCIES, THE REQUIRED CONDITIONS THAT WOULD PREVENT THRIVING GROWTH.

4. SUBSTITUTION OF PLANT MATERIALS WILL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY JEA. JEA IS NOT REQUIRED TO PLANT ANY LANDSCAPING OUTSIDE OF THE PROPERTY LINE. THE DRAWINGS ON THIS SHEET ARE RECOMMENDED FOR LANDSCAPING OUTSIDE OF THE PROPERTY LINE AS A BASIS OF DESIGN FOR SITE SPECIFIC PLANT STATIONS. THESE NOTES TO BE CHANGED ON COMPLETED DRAWING.

5. PROPER DRAINAGE SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER FOR陸地標高の差に応じて表示される株の植え込み位置を意識してください。THE JEA OR JEA'S REPRESENTATIVE SHALL HAVE THE RIGHT TO REJECT ANY AND ALL WORK WHICH IN THE JEA'S OPINION WOULD NOT MEET WITH THE REQUIREMENTS OF THE SPECIFICATIONS SHOWN ON THIS SHEET OR THE JEA SPECIFICATIONS. THE JEA SPECIFICATIONS SHALL BE THE PREVAILING SPECIFICATIONS.

6. PLANTS SHALL BE PLANTED IN CONFORMITY WITH LANDSCAPING BOARD REQUIREMENTS.

7. LANDSCAPING MATERIALS SHALL BE MAINTAINED THROUGH AN IRRIGATION SYSTEM WITH PROPER MAINTENANCE AND MEET JEA SPECIFICATIONS.

8. ALL PLANTS SHALL BE SEQUENCED IN ACCORDANCE WITH THE PLANT LIST. PLANT MATERIALS, PLANT SPECIES, PLANT MATERIAL BACKFILL MIXTURE SHALL BE THOROUGHLY MIXED IN THE FOLLOWING 1/3 COW MANURE 1/3 TOPSOIL 1/3 PLANTING SOIL. PLANT MATERIAL BACKFILL MIXTURE SHALL BE THOROUGHLY MIXED IN THE FOLLOWING 1/3 COW MANURE 1/3 TOPSOIL 1/3 PLANTING SOIL.

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