NOTES

1. POLE HEIGHT SHALL BE 20'-40' AND SHALL BE DETERMINED BY THE COUNTY DURING CONSTRUCTION AFTER COORDINATES HAVE BEEN SUBMITTED AND A RADIO PATH REPORT HAS BEEN COMPLETED BY THE COUNTY.
2. POLES SHALL BE HINGED ALUMINUM FOR ANTENNA HEIGHTS 20' AND BELOW. POLES SHALL BE NON HINGED ALUMINUM FOR ANTENNA HEIGHTS GREATER THAN 20'. ORIENTATION OF HINGE SHALL BE COORDINATED WITH LOCATION OF OTHER ABOVE GROUND FEATURES WITHIN PUMP STATION SITE.
3. MOUNTING STUDS AND CONCRETE BASE SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. LAGS OR DRIVE PINS WILL NOT BE PERMITTED. NON-SHRINK GROUT TO BE APPLIED AROUND BASE.
4. CONFIGURATION OF ANTENNA SHALL BE BASED ON SUSSEX COUNTY RADIO PATH REPORTING.
NOTES

1. POLE SHALL BE ALUMINUM ROUND TAPERED, BLACK FINISH, 12' HEIGHT, 3" PIPE FITTER, WITH ANCHOR BOLTED BASE.
2. LIGHT TO BE LOCATED TO PROVIDE DIRECT ILLUMINANCE OF WET WELL AREA.
3. LIGHT FIXTURE TO BE RATED TO PROVIDE A MIN OF 10,000 LUMENS AT 5,000 K.
4. ORIENTATION OF HINGE SHALL BE COORDINATED WITH LOCATION OF OTHER ABOVE GROUND FEATURES WITHIN PUMP STATION SITE.
NOTES

1. PLAN PROVIDED REPRESENTS A TYPICAL GROUND RING CONFIGURATION. ALTERNATE GROUNDING LAYOUTS ARE ACCEPTABLE PER CONFORMANCE TO APPLICABLE CODE AND COUNTY APPROVAL.
2. SEE DETAIL E-4 FOR GROUND ROD CONFIGURATION.
COVER, TRAFFIC RATED MARKED "ELECTRIC"

14"x14" PRECAST CONCRETE BOX

FINISHED GRADE

GRANITE OR CRUSHED STONE

EXOTHERMIC WELD

#4/0 GROUNDING CONDUCTOR

3/4" DIAMETER GROUND COPPER COATED ROD 10'-0" LONG

GROUND ROD TYPE "A" SHOWN - SEE BELOW FOR TYPE "B" CONFIGURATION.

SECTION

FINISHED GRADE

#4/0 GROUNDING CONDUCTOR

EXOTHERMIC WELD

3/4" DIAMETER GROUND COPPER COATED ROD 10'-0" LONG

GROUND ROD TYPE "B"

PLAN - COVER REMOVED

14"
NOTES

1. TRENCH DETAIL IS APPLICABLE TO PUMP STATION SITES ONLY.
2. TRENCH WIDTH SHALL BE OUTSIDE DIAMETER OF CONDUIT PLUS 6 INCHES ON EITHER SIDE.
3. FOR MULTIPLE CONDUIT CONFIGURATIONS, PROVIDE 3" SEPARATION BETWEEN CONDUITS.
EQUIPMENT SUPPORT STRUCTURE

WELD CAP (TYP. FOR 2)

PUMP DISCONNECT SWITCH (TYP.)

1/8" THICK ALUMINUM PLATE

ALUMINUM CHANNEL, OR STAINLESS STEEL UNISTRUT FRAMING, 1-1/2" x 1-1/2"
LENGTH AS REQUIRED (TYP. FOR 2). SECURE CHANNEL TO PIPE USING GALVANIZED PIPE STRAPS.

PUMP CABLE
2-1/2" GALVANIZED STEEL PIPE, OR STAINLESS STEEL UNISTRUT FRAMING (TYP.)
(1)-#8 GND - TO GROUND LUG OF EQUIPMENT

18" MINIMUM

GROUND ROD
3/4" DIA. x 10'-0" LONG

2'-0" MINIMUM (EXACT HEIGHT TO SUIT EQUIPMENT)

JUNCTION BOX
NEVADA 4X, 316 STAINLESS STEEL

3'-0" MINIMUM (EXACT HEIGHT TO SUIT EQUIPMENT)

CABLE GRIP CROUSE-HINDS TYPE ‘CSBG’ (TYP.)

1/2" - 13 GAUGE FLAT STAINLESS STEEL EXPANDED METAL SCREEN WITH TOP & 4 SIDES. INSTALL WITH ALL STAINLESS STEEL HARDWARE AND ANCHORS.

LEVEL SENSING CABLE
PUMP FLOAT CABLE

PROVIDE CABLE SEAL - FITTING OZ-GEONEY TYPE ‘CSBG’ ON EACH CONDUIT & MATCH TO CABLE SIDES.

CONCRETE SLAB

3" CONCRETE ALL AROUND (TYP.)

EQUIPMENT SUPPORT STRUCTURE
NO SCALE

1 PUMP #1 CONDUIT TO SERVICE ENCLOSURE
2 PUMP #1 CONDUIT/CABLE TO WET WELL
3 PUMP #2 CONDUIT TO SERVICE ENCLOSURE
4 PUMP #2 CONDUIT/CABLE TO WET WELL
5 TRANSDUCER CONDUIT TO SERVICE ENCLOSURE
6 TRANSDUCER/PUMP FLOAT CABLE TO WET WELL
ELECTRICAL CABINET - CONTROLS SIDE

 SPECIFIC NOTES

 NOTES

 1. WIREWAY 6" WITH POWER TERMINAL BLOCKS, UL RATED
 2. MINI CAS II
 3. JUNCTION BOX NEMA 4 ENCLOSURE
 4. THERMOSTATS
 5. 125V., 20A, GFCI RECEPTACLE AND LIGHT SWITCH
 6. CABINET HEATER
 7. CONTROL CABINET TO FACE WET WELL
 8. VFD
 9. INTERIOR LIGHT FIXTURE

 SPECIFIC NOTES

 1. VFD WITH LINE REACTOR FOR PHASE CONVERSION SHALL BE SUPPLIED ONLY IF SINGLE PHASE ELECTRICAL SERVICE IS APPROVED BY THE COUNTY. COMBINATION NEMA 1 MOTOR STARTER SHALL BE PROVIDED IF THREE PHASE SERVICE IS PROVIDED.
TIER 1 PUMP STATION:
TYPICAL ELECTRICAL CABINET POWER SIDE

ELECTRICAL CABINET - POWER SIDE

NOTES

1. METER & BASE (MOUNT ON POWER CABINET).
2. WIREWAY 6" WITH POWER TERMINAL BLOCKS, UL RATED.
3. SINGLE PHASE MONITOR.
4. 125V, 20A, GFCI RECEPTACLE AND LIGHT SWITCH.
5. JUNCTION BOX NEMA 4 ENCLOSURE
6. WETWELL FAN MOTOR CONTROLLER.
7. MANUAL 20A-120V SWITCH (FOR EXTERIOR SITE LIGHT MANUAL CONTROL).
8. INTERIOR LIGHT FIXTURE.
ELECTRICAL CABINET - CONTROLS SIDE

NOTES

1. RRT
2. COMBINATION NEMA 1 MOTOR STARTER
3. MINI CAS II
4. JUNCTION BOX NEMA 4 ENCLOSURE
5. UPS
6. THERMOSTAT
7. 125V, 20A, GFCI RECEPTACLE AND LIGHT SWITCH
8. CABINET HEATER
9. INTERIOR LIGHT FIXTURE
ELECTRICAL CABINET - POWER SIDE

NOTES

1. METER & BASE (MOUNT ON POWER CABINET).
2. WIREWAY 6" WITH POWER TERMINAL BLOCKS, UL RATED.
3. SINGLE PHASE MONITOR.
4. 125V, 20A, GFCI RECEPTACLE AND LIGHT SWITCH.
5. JUNCTION BOX NEMA 4 ENCLOSURE.
6. WETWELL FAN MOTOR CONTROLLER.
7. MANUAL 20A–120V SWITCH (FOR EXTERIOR SITE LIGHT MANUAL CONTROL).
8. INTERIOR LIGHT FIXTURE.