

1 HUBBELL

M 1 SQUARE D

N 1 PANDUIT

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NOTE 1: SELECT APPROPRIATELY SIZED TERMINAL BLOCK BASED ON MOTOR LOAD

NOTE 4: ENGINEER APPROVED EQUAL COMPONENT MAY BE SUBSTITUTED

AND THE ASSOCIATED ADJACENT JUMPER

NOTE 2: INSERTING MULTIPLE CABLES INTO A SINGLE TERMINAL IS PROHIBITED. USE A SECOND BLOCK

NOTE 3: USE PRINTED GUIDE ON TERMINAL BLOCKS TO MEASURE CORRECT CABLE STRIP LENGTH

GF20WLA

FF30MC

WP1030C

PK9GTA

LAMA2-14-QY

DUPLEX GFCI RECEPTACLE, 20A

EQUIPMENT GROUND BAR, 9-POINT

SPRING-WOUND TIMER, 30 min. NO HOLD

GROUND LUG, DUAL-RATED, #2-14 AWG

SINGLE GANG WEATHER-PROOF COVER, CLEAR

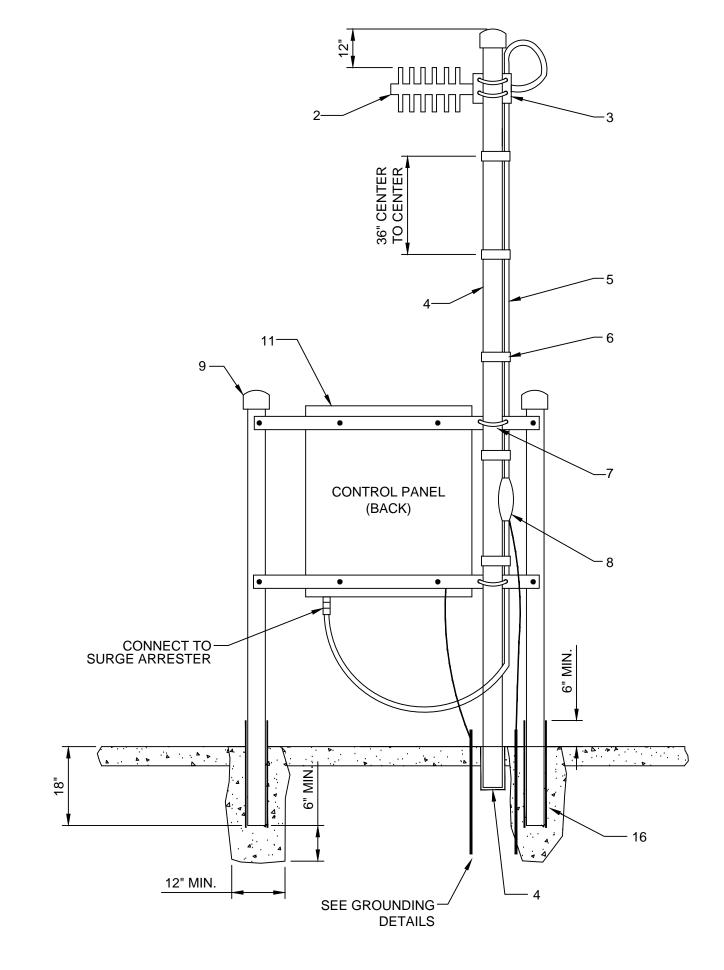
SHEET NO. DRAWING NO.

18. GFCI AND TIMER SHALL BE RIGIDLY MOUNTED ON THE EXTERIOR OF THE PANEL USING TYPE 316 SS OR ALUMINUM BRACKETS.

2) YAGI ANTENNA — SEE NOTE 7 — 4) COAXIAL CABLE 3) MOUNTING POLE -NOTES: 1. ACCEPTABLE MANUFACTURERS OF TOWERS ARE ROHN OR UNIVERSAL TOWERS. SEE PUMP STATION SITE DRAWINGS FOR POLE OR TOWER SPECIFICATIONS. 2. YAGI ANTENNA: MANUFACTURER: SCALA MODEL #: TY-900 3. MOUNTING POLE: MANUFACTURER: SCALA MODEL #: WPM-2 4. COAXIAL CABLE SHALL BE ONE CONTINUOUS CABLE: MANUFACTURER: ANDREW MODEL #: LDF4-50A COAXIAL CABLE CONNECTORS: MANUFACTURER: ANDREW MODEL #: L4TNM-PSA 5. COAXIAL SUPPORT HANGERS: MANUFACTURER: ANDREW MODEL #: 43211 6. COAXIAL CABLE GROUND: MANUFACTURER: TESSCO MODEL #: 41669 7. WEATHER PROOFING KIT: MANUFACTURER: TESSCO MODEL #: 18264 8. REFERENCE GROUNDING DETAILS SHEET. 9. TOWER BASE IS TO BE DESIGNED PER MANUFACTURERS RECOMMENDATIONS. TOWER SEE NOTE #1-- 5) COAXIAL SUPPORT HANGERS 18" MAX. CONTROL PANEL — 6) COAXIAL CABLE GROUND - SEE NOTE #8 SEE NOTE #7 4" SCH 40 ALUMINUM POST -SET IN CONCRETE (WITH MASTIC COATING) 6" MIN. CLEARANCE FROM GROUND

SEE NOTE 9 -

ALTERNATE POLE SCADA INSTALLATION DETAIL FOR POLE HEIGHTS 20 FEET AND ABOVE NOT TO SCALE



SCADA INSTALLATION DETAIL FOR POLE HEIGHTS LESS THAN 20 FEET NOT TO SCALE

1. SEE PUMP STATION SITE DRAWINGS FOR POLE OR TOWER SPECIFICATIONS.

2. YAGI ANTENNA, COMES W/ MOUNTING HARDWARE(MAST SHALL BE SLEEVED THRU CONCRETE TO ALLOW ROTATION (DO NOT USE WOOD POLE MOUNT) MANUFACTURE: SCALA MODEL NUMBER: TY-900

3. COAX CONNECTOR MANUFACTURE: WIRELESS SOLUTIONS MODEL NUMBER: NM50V-1/2

4. 2 3 O.D. SCD. 40 ALUMINUM 20 POLE. POLE SHALL BE SLEEVED THROUGH CONCRETE TO ALLOW FOR ROTATION

5. COAXIAL CABLE SHALL BE ONE CONTINUOUS CABLE MANUFACTURER: ANDREW

MODEL #: LDF4-50A 6. STAINLESS STEEL STRAPS 3' O/C

MANUFACTURE: WIRELESS SOLUTIONS MODEL NUMBER: RM-A300

7. 316 STAINLESS STEEL U-BOLTS MANUFACTURE: ANY DOMESTIC BRAND MODEL NUMBER: N/A

8. COAXIAL CABLE GROUND MANUFACTURER: TESSCO MODEL #: 41669

9. 4" PVC CAPS

10. 4" DIA. ALUMINUM POST

11. 1/2"X3" SOLID ALUMINUM SUPPORT BARS (2 TOTAL) BOLTED TO POST W/ 5/8" S.S. ANCHOR BOLTS. DRILL 2 HOLES (AS DIMENSIONED ON DETAIL) IN TOP & BOTTOM SUPPORTS ONLY

12. BURY ALUMINUM POST IN CONCRETE AS SHOWN ON DRAWING.

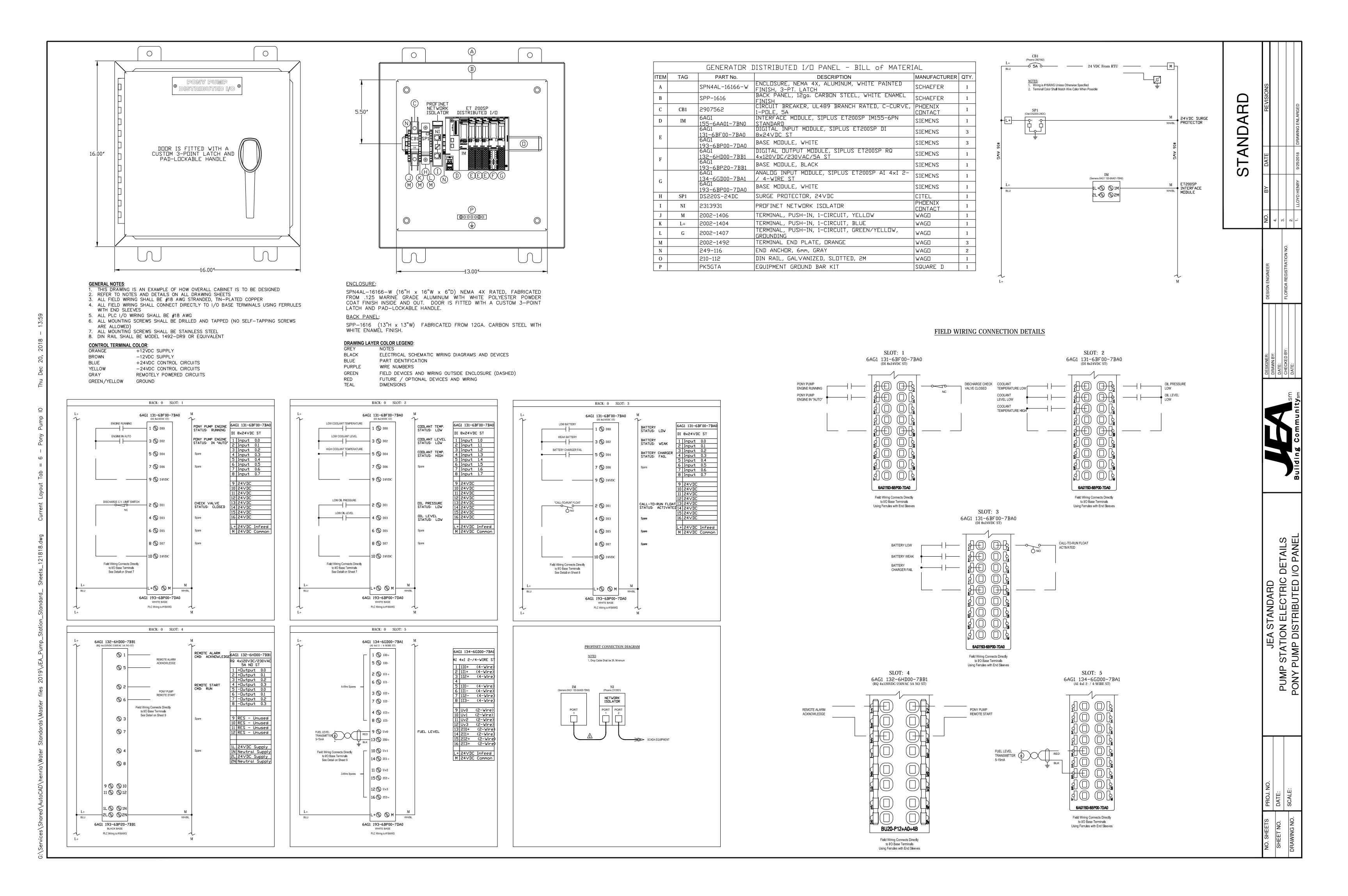
13. INSTALL RTU MOUNT SO THAT WHEN CABINET IS ATTACHED DOOR IS FACING NORTH UNLESS DOOR HAS SUN SHIELD. IN ALL INSTANCES JEA PREFERS THE DOOR TO FACE NORTH IF

14. CABINET SHALL HAVE CLEARANCE TO OPEN DOOR COMPLETELY.

15. SCADA SYSTEM WOOD POLE ALTERNATE DETAIL TO BE USED ONLY WHEN ADDITIONAL ANTENNA HEIGHT IS REQUIRED, AND APPROVED.

16. MASTIC SEAL ALL POSTS WHICH ARE EMBEDDED IN CONCRETE.

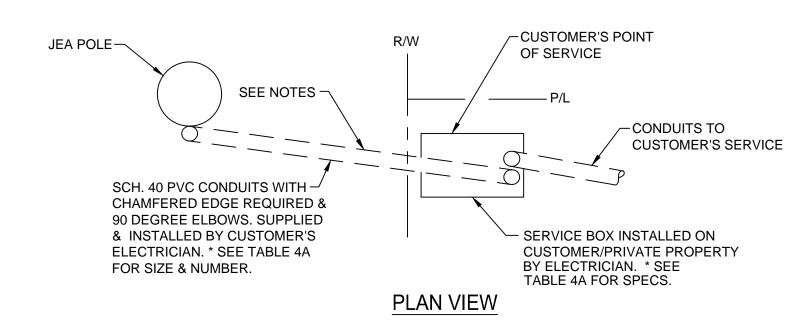
17. ALL MATERIALS MUST MEET OR EXCEED JEA SPECIFICATIONS

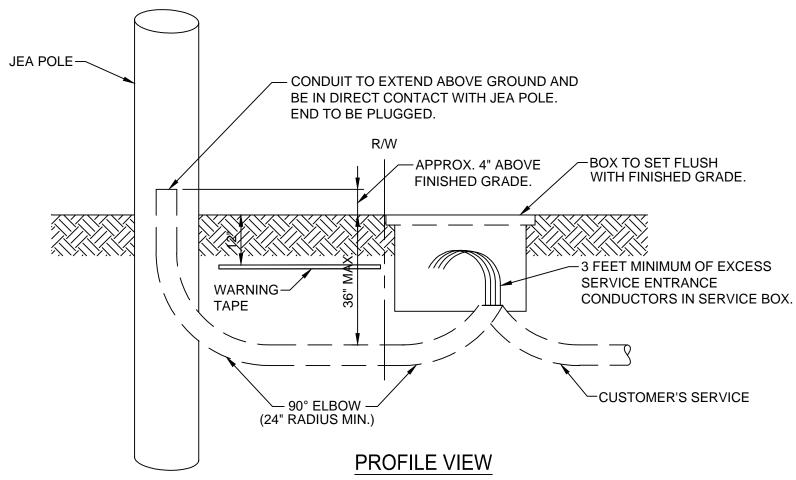


- 20 FT MINIMUM OF EXCESS SERVICE ENTRANCE CONDUCTORS COILED AT TOP OF CONDUIT. JEA POLE — - RECOMMEND CONTRACTOR SEAL/FOAM TOP OF CONDUIT TO KEEP WATER OUT OF METER SOCKET. CUSTOMER INSTALLED CONDUIT TO EXTEND ABOVE FINISHED GRADE 10 FEET AND ATTACH TO JEA POLE. (SEE NOTE #3.) - FINISHED GRADE - WARNING TAPE TO CUSTOMER'S SERVICE

- 1. 100 AMP MAXIMUM SERVICE SIZE.
- 2. THE CUSTOMER WILL MAINTAIN THE WARNING TAPE, CONDUIT AND CONDUCTORS SHOWN.
- 3. THE CUSTOMER MUST PICK A CLEAR SIDE OF THE JEA POLE TO EXTEND UP CONDUIT. CLEAR FROM PHONE OR COMMUNICATION CABLES, OR ANY OTHER EQUIPMENT, FROM FINISHED GRADE TO JEA POINT OF SERVICE. CALL JEA DISTRIBUTION ENGINEER IF LOCATION IS REQUIRED.
- 4. THE JEA WILL MAKE ALL CONNECTIONS TO CUSTOMER'S SERVICE WIRE ON THE JEA POLE.
- 5. THE JEA WILL INSTALL CABLE GUARD ON JEA POLE AND COVER CUSTOMER'S SERVICE WIRE AND CONDUIT TO FINISHED GRADE.

COMMERCIAL SERVICE 100AMP MAXIMUM UNDERGROUND SERVICE FROM AN OVERHEAD POLE NOT TO SCALE





- 1. THE MINIMUM DISTANCE BETWEEN THE SERVICE BOX AND SERVICE POLE IS 4 FEET.
- 2. THE CUSTOMER MUST PICK A CLEAR SIDE OF THE JEA POLE FOR THE JEA TO EXTEND UP THE POLE RISER. CLEAR FROM PHONE OR COMMUNICATION CABLES, OR ANY OTHER EQUIPMENT, FROM FINISHED GRADE TO CONNECTIONS TO OVERHEAD FACILITIES. CALL JEA DISTRIBUTION ENGINEER IF LOCATION IS REQUIRED.
- 3. THE JEA WILL MAINTAIN THE POLE RISER AND CONDUCTOR FROM THE OVERHEAD FACILITIES TO A CUSTOMER-PROVIDED SERVICE BOX.
- 4. THE JEA WILL MAKE ALL CONNECTIONS TO THE CUSTOMER'S SERVICE WIRE IN THE SERVICE BOX. SAID CONNECTIONS WILL BE THE CUSTOMER'S POINT OF SERVICE.

COMMERCIAL SERVICE ABOVE 100 AMPS AND MULTI-METERED UNDERGROUND SERVICE FROM AN OVERHEAD POLE NOT TO SCALE

TABLE 4A

CONDUIT AND SERVICE BOX REQUIREMENTS

FOR UNDERGROUND COMMERCIAL SERVICES FROM AN OVERHEAD POLE

SERVICE SIZE	CONDUIT SIZE (From Service Box to JEA Overhead Pole)	SERVICE BOX SIZE
20A - 150A	1-2 in	13" x 24" x 18" d
151A -200A	1-3 in	17" x 30" x 18" d
201A - 399A	1-3 in	24" x 36" x 18" d
400A-800A	400A=1-4 in 401-800A=2-4 in	30" x 48" x 24" d manhole
801A-1400A	801-1000A=2-4 in 1001-1400A=3-4 in	36" x 60" x 36" d manhole

- 1. ALL CONDUITS TO BE SCHEDULE 40 PVC WITH CHAMFERED EDGES REQUIRED. CONDUIT SIZE AND NUMBER DOES NOT HAVE TO MATCH CUSTOMERS' SERVICE CONDUIT SIZE, TYPE, AND NUMBER.
- 2. ALL CONDUIT RADIUS TO BE 24 INCH MINIMUM.
- 3. JEA WILL ALLOW THE OPTION OF PURCHASING THESE BOXES FROM AN ELECTRICAL SUPPLY HOUSE. THESE BOXES MUST MEET THE FOLLOWING SPECIFICATIONS.
- 4. SERVICE BOX SIZE MAY VARY FOR 3 PHASE APPLICATIONS.
- 5. CONTACT JEA SERVICE ENGINEER FOR CONDUIT AND BOX LOCATION.

TECHNICAL SPECIFICATIONS

MATERIAL SPECIFICATIONS:

- 1. TOP: COMPRESSION MOLDED POLYMER CONCRETE WITH MINIMUM THICKNESS OF TWO INCHES.
- 2. BODY: REINFORCED PLASTIC MORTAR (RPM) CONSISTING OF FIBERGLASS AND ISOPHOLIC RESIN. THE BASE WILL HAVE A FLANGE OF TWO INCHES FROM THE INSIDE WALL.
- 3. RING: THE RING WILL BE OF POLYMER CONCRETE AND WILL BE PERMANENTLY FUSED TO THE BODY DURING THE CURING PROCESS.

<u>MANHOLE</u>

- 1. MANHOLE BODY SHALL BE OF ONE PIECE CONSTRUCTION WITH A SOLID COVER.
- 2. MANHOLE DIMENSIONS SHALL BE 60" L X 36" W X 36"D.

LOAD RATING:

- 1. LOAD RATING: H-10 (INCIDENTAL TRAFFIC).
- 2. LOAD RATINGS SHALL BE IN ACCORDANCE WITH ASTM, C-857-87 (STD. PRACTICE FOR MINIMUM STRUCTURAL DESIGN LOADING FOR UG PRECAST CONCRETE UTILITY STRUCTURES) AASHTO AND WESTERN UNDERGROUND COMMITTEE RECOMMENDED GUIDELINES RULE 3.6 DATED 6-15-87.

MISCELLANEOUS REQUIREMENTS:

- 1. HARDWARE: TWO CAPTIVE STAINLESS PENTA HEAD BOLTS FOR SECURING TOP. BOLT HEADS WILL BE FLUSH
- 2. IDENTIFICATION: EACH TOP WILL HAVE THE WORD "ELECTRIC" PERMANENTLY MARKED INTO THE TOP.

ELECTRICAL NOTES

- 1. GROUND WIRE SHALL RUN FROM THE CHASSIS CONTINUOUS THROUGH THE METER CAN TO 2 GROUND RODS SPACED 6 FEET APART AND TERMINATE ON A FENCE POST IN CONCRETE.
- 2. ELECTRICAL ENCLOSURES SHALL BE ORIENTED SUCH THAT THE FRONT OF THE ENCLOSURE FACES THE INTERIOR OF THE PUMP STATION SITE.
- 3. QUANTITY AND SIZE OF NEMA 4x 316-STAINLESS STEEL ENCLOSURES AS REQUIRED FOR STATION OPERATION.
- 4. SERVICE DISCONNECT SHALL BE MANUAL FUSE 3 PHASE-4 WIRE

