

**1**  
E-201  
**RAINWATER HARVESTING SYSTEM  
ELECTRIC INSTALLATION PLAN**  
SCALE: 1" = 40'

- KEYED NOTES:**
1. INSTALL NEW EQUIPMENT RACK FOR THE RAINWATER HARVESTING SYSTEM. INSTALL NEW METER BASE, POWER DISCONNECT, PUMP CONTROL PANEL, CONVENIENCE RECEPTACLE, AND GROUNDING SYSTEM.
  2. EXISTING ELECTRIC UTILITY POLE. COORDINATE WITH ONCOR TO CONVERT TO THREE-PHASE POWER.
  3. INSTALL NEW SERVICE DROP POLE, GUYING, AND APPURTENANCES.
  4. INSTALL NEW UNDERGROUND SECONDARY SERVICE TO NEW UTILITY RACK.
  5. INSTALL NEW RAINWATER HARVESTING SYSTEM.
  6. INSTALL NEW OVERHEAD ELECTRIC SECONDARY. AT LOWEST SAG, MINIMUM VERTICAL CLEARANCE SHALL BE 18'.
  7. INSTALL SAFETY BOLLARDS AROUND ELECTRICAL SERVICE AND PUMP CONTROL EQUIPMENT. BOLLARDS SHALL BE SPACED AT A MAXIMUM OF 6 FEET APART WITHOUT OBSTRUCTION ACCESS TO EQUIPMENT. BOLLARDS SHALL ONLY BE INSTALLED ON THE SIDE CLOSEST TO LINDBERGH DRIVE AND THE FRONT OF THE EQUIPMENT. BOLLARDS SHALL BE INSTALLED A MINIMUM OF 2 FEET FROM THE BACK OF CURB WITH 3 FEET OF SEPARATION BETWEEN THE BOLLARDS AND EQUIPMENT. SEE SHEET C-300 FOR BOLLARD DETAILS.
  8. INSTALL NON-POTABLE WATER SIGN. SIGN MATERIAL SHALL BE 0.08" ALUMINUM. SIGN SHALL BE INSTALLED NEXT TO OUTLET CONNECTION.

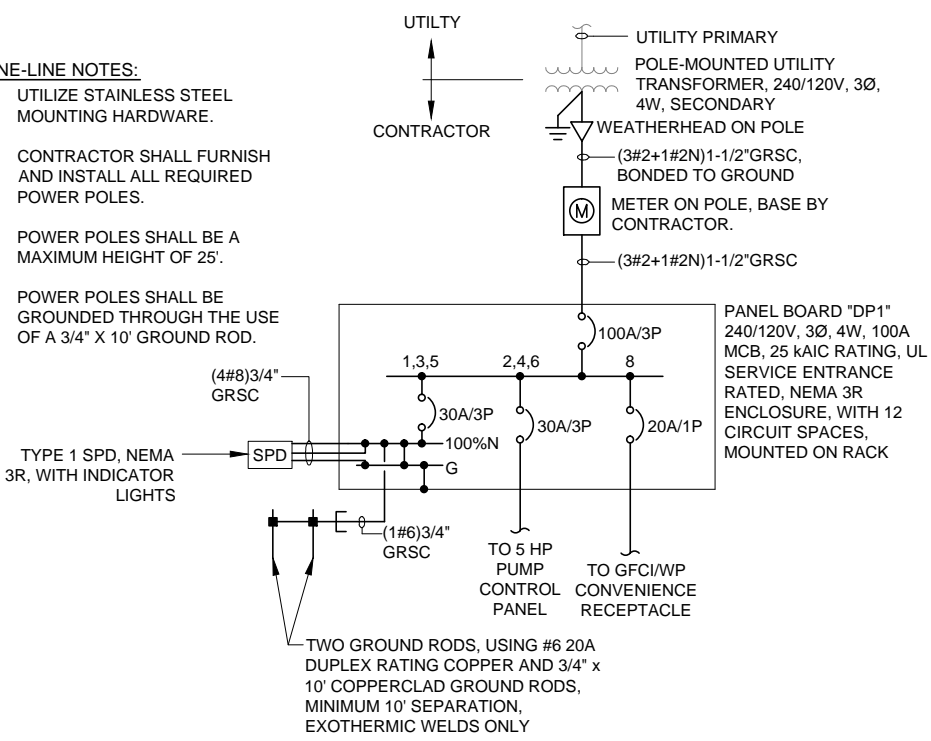


**4**  
E-201  
**NON-POTABLE WATER SIGN**  
SCALE: NONE

**NOTES:**

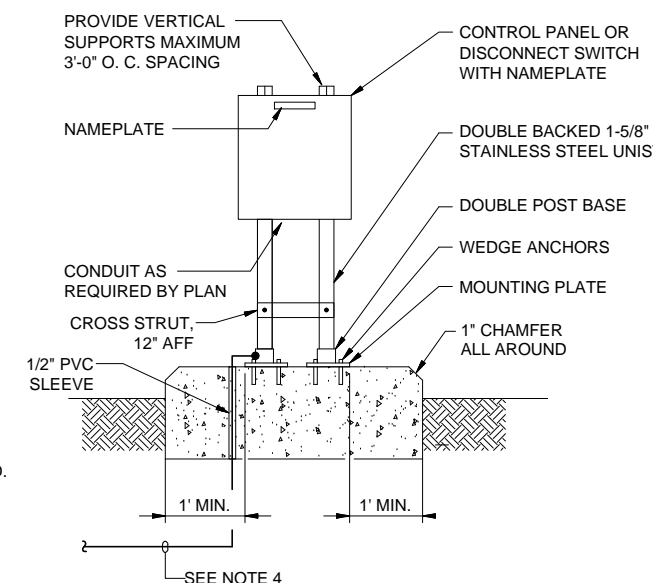
1. SIGN SHALL BE INSTALLED ON A SQUARE BREAKAWAY SIGN SUPPORT. SEE SPECIFICATIONS FOR DETAILS.
2. BOTTOM OF SIGN SHALL BE INSTALLED FIVE FEET FROM EXISTING GROUND.

- ONE-LINE NOTES:**
1. UTILIZE STAINLESS STEEL MOUNTING HARDWARE.
  2. CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED POWER POLES.
  3. POWER POLES SHALL BE A MAXIMUM HEIGHT OF 25'.
  4. POWER POLES SHALL BE GROUNDED THROUGH THE USE OF A 3/4" X 10' GROUND ROD.

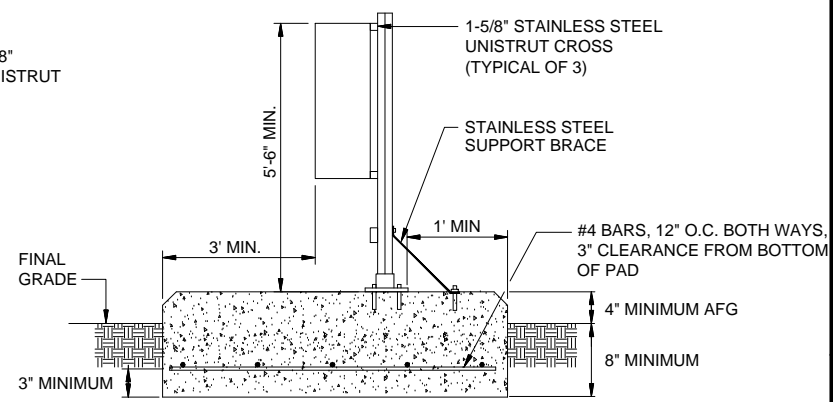


**2**  
E-201  
**NEW SERVICE ONE-LINE DIAGRAM**  
SCALE: NONE

- DIAGRAM NOTES:**
1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 (2011) NATIONAL ELECTRICAL CODE, NFPA 101 (2012) LIFE SAFETY CODE, STATE ELECTRICAL CODE, AND LOCAL ELECTRICAL CODE.
  2. COORDINATE ELECTRICAL POWER SUPPLY WITH EQUIPMENT SUPPLIED.
  3. COORDINATE ALL ELECTRICAL WORK AND POWER OUTAGES WITH OWNER, FAA, AND POWER UTILITY.
  4. SERVICE WIRING SHALL BE MINIMUM TYPE THHN/THWN-2.
  5. UNDERGROUND FEEDER AND BRANCH CIRCUIT WIRING SHALL BE A MINIMUM TYPE THHN/THWN-2.
  6. ABOVE GROUND FEEDER AND BRANCH CIRCUIT WIRING SHALL BE MINIMUM TYPE THHN/THWN-2.
  7. EQUIPMENT SHORT CIRCUIT CURRENT RATINGS AND AVAILABLE INTERRUPTING CURRENT RATINGS SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT CIRCUIT CURRENT AVAILABLE AT TERMINALS. SERIES RATED SYSTEMS SHALL NOT BE USED.
  8. NEUTRAL BUSES SHALL BE COPPER 100% RATED UNLESS NOTED OTHERWISE.
  9. GROUND BUSES SHALL BE COPPER UNLESS NOTED OTHERWISE.
  10. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS.
  11. INSTALL ALL CONDUCTORS AND CABLES IN CONDUIT UNLESS NOTED OTHERWISE.
  12. INSTALL LUGS AND JUNCTION BOXES AS REQUIRED TO FIT WIRING.
  13. ALL WIRING SHALL BE COPPER.
  14. INSTALL NEW LAMINATED TYPED PANEL SCHEDULES IN ALL ELECTRICAL PANELS INDICATING WORK PERFORMED.
  15. THE POWER UTILITY POINT OF CONTACT IS LARRY REDICK, ONCOR, PHONE NUMBER (972) 323-8917.
  16. THE OVERALL INSTALLATION SHALL CONFORM TO ONCOR STANDARDS AND ANY DEFICIENCIES NOTED BY ONCOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT.



**FRONT VIEW**



**SIDE VIEW**

- NOTES:**
1. ALL BOLTS, NUTS, WASHERS, ANCHORS, PLATES, AND OTHER MOUNTING ITEMS SHALL BE CORROSION RESISTANT, STAINLESS STEEL.
  2. UTILIZE 5/16" STAINLESS STEEL WEDGE ANCHORS AS REQUIRED.
  3. UTILIZE 3500 PSI CONCRETE.
  4. BOND ELECTRICAL EQUIPMENT SUPPORT FRAME TO GROUNDING SYSTEM USING #6 AND EXOTHERMIC WELDS.
  5. PROVIDE SHOP DRAWING WITH EQUIPMENT DIMENSIONS FOR REVIEW AND APPROVAL BY ENGINEER.

**3**  
E-201  
**TYPICAL PANEL MOUNTING DETAIL**  
SCALE: NONE



REGISTRATION NO.  
F-5713

RECORD DRAWINGS  
03/10/2015

REV.	DATE	DESCRIPTION	BY

**Addison Airport**  
ADDISON, TEXAS  
RUNWAY 33 RSA IMPROVEMENTS

RAINWATER HARVESTING ELECTRICAL INSTALLATION PLAN

JOB NO.: 13081100  
DATE: NOV. , 2013  
DESIGNED BY: MCL  
DRAWN BY: JKS

BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER  
**E-201**

SHEET NUMBER  
**47**

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Last plotted by: Suarez, Javier Plot Style: AECmonochrome.ctb Plot Date: 3/10/2015 4:58 PM Plotter used: DWG To PDF.pc3