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 LIFT STATION NO. 7 SITE PLAN - ELECTRICAL
 SCALE: 1" = 10'-0" APPROXIMATE (22x34)
 SCALE: 1" = 20'-0" APPROXIMATE (11x17)

- GENERAL NOTES:**
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM ENGINEER PRIOR TO PROCEEDING WITH WORK.
 - EFFORT WAS MADE IN THE PREPARATION OF THE CONTRACT DOCUMENTATION TO COORDINATE CONNECTIONS WITH ALL DISCIPLINES. HOWEVER, THE EC IS RESPONSIBLE TO REVIEW ENTIRE PLANS AND THE SPECIFICATIONS AND INCLUDE ALL WORK REQUIRED TO PROVIDE A COMPLETE PROJECT.
 - SIZE HOME-RUN WIRING PER ONE-LINE DIAGRAM AND WIRE SCHEDULE.
 - REFER TO INSTRUMENTATION DEVICE SCHEDULE ON SCHEDULE SHEET FOR WIRING REQUIREMENTS.
 - OBSERVE APPLICABLE CODE REQUIREMENTS FOR ELECTRICAL INSTALLATIONS WITHIN HAZARDOUS AREAS NOTED ON PLAN.
 - MINIMUM CONDUIT SIZE 3/4", UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
 - ALL CONDUITS LOCATED IN CLASSIFIED AS HAZARDOUS OR CORROSIVE AREAS SHALL BE PVC COATED RIGID CONDUIT, AND XP FITTINGS & BOXES, AND SS SUPPORTS & HARDWARE. CABLE SLEEVES SHALL BE SCH. 80 NON-METALLIC CONDUIT (TYP.).
 - ALL BURIED RACEWAYS AND SLEEVES SHALL BE INSTALLED WITH A MINIMUM 24" DEPTH TO TOP OF CONDUIT. CONTRACTOR SHALL INSTALL IDENTIFICATION RIBBONS 12" ABOVE ALL CONDUITS/TRENCHES (MULTIPLE RIBBONS MAYBE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES PRIOR AND FOR ALL BACK FILL AND RESTORATION AFTERWARDS).
 - REFER TO ELECTRICAL PLANS AND SPECIFICATION FOR ADDITIONAL INFORMATION AND DETAILS.
 - ALL ITEMS AND DEVICES SHOWN ARE FOR GENERAL INTENT AND CLARITY. ACTUAL LAYOUT AND INSTALLATION MAY VARY, BASED ON FIELD CONDITIONS. ALL CHANGES SHALL BE COORDINATED WITH OWNER AND FIELD ENGINEER.
 - ELECTRICAL INSTALLATION SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND COMPLY WITH ALL RELEVANT CODES, REGULATIONS, AND GUIDANCE.
 - CONTRACTOR SHALL FIELD VERIFY FEEDER SIZING FOR VOLTAGE DROP PER ACTUAL WIRE RUNS.
 - CONTRACTOR SHALL FIELD VERIFY THAT ALL LOADS AND BRANCH LOADS ARE BALANCED.
 - CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS (COMPLETE).
 - ALL RACEWAYS SHALL BE CONCEALED OR DIRECT BURIED. EXPOSED RACEWAYS SHALL BE APPROVED PRIOR TO INSTALLATION.

LIFT STATION ELECTRICAL REQUIREMENTS:

- POWER:** OBTAIN POWER CIRCUIT FROM THE EXISTING LOAD CENTER LOCATED INSIDE 70-LSQP-1.
- COMMUNICATION LINK:** PROVIDE AND INSTALL (1) CAT5e CABLE BETWEEN 70-RTU-1 AND 70-LSQP-1.
- 70-LSQP-1:** CITY OF SUPERIOR LIFT STATION NO.7 CONTROL PANEL TO REMAIN. COORDINATE INTEGRATION WITH CITY.
- 70-RTU-1:** PROVIDE AND INSTALL NEW RTU PANEL MOUNTED TO NEW FREE STANDING EQUIPMENT RACK.
- LEVEL TRANSMITTER:** PROVIDE AND INSTALL RADAR LEVEL SENSOR AS SPECIFIED AND TYPICAL DETAIL 26 90 06.
- EXTERIOR RECEPTACLE:** PROVIDE AND INSTALL ONE EXTERIOR WEATHERPROOF/DFCI RECEPTACLE AT THE EQUIPMENT MOUNTING RACK AS DETAILED. ROUTE 2#10 & #10G IN 3/4" TO 20A/1P CIRCUIT BREAKER IN CONTROL PANEL.
- EXISTING LIGHT POLE:** TO REMAIN, THE CONTRACTOR SHALL SUPPORT DURING CONSTRUCTION. CONTRACTOR SHALL NOTE THAT THE CITY SCADA ANTENNA IS MOUNTED TO THIS POLE. CONTRACTOR SHALL PROTECT COORDINATE AND PROTECT EXISTING COMMUNICATION FACILITIES.
- PAVEMENT REMOVAL AND RESTORATION:** APPROXIMATE LIMITS AS SHOWN. COMPLETE AND INCLUSIVE.
- ANTENNA BASE:** PROVIDE AND INSTALL AS SPECIFIED AND DETAILED.

PLAN NOTES: (X)

- APPROXIMATE LOCATION OF SCADA ANTENNA AND TOWER. INSTALL NEW RC BASE. THE BASE SHALL BE INSTALLED INSITU OF THE GRADE PRIOR TO FILLING. BASE SHALL EXTEND THROUGH FILL. PROVIDE AND INSTALL OBSTRUCTION LIGHT ON TOWER. REFER TO SCHEDULE ((2)#10 & #12G IN 1" TO 20A CB).
- EXISTING WETWELL, HAZARDOUS ENVIRONMENT. INSTALL RADAR LEVEL TRANSMITTER (TYP.). CONE WETWELL WALL AND SEAL CONDUIT PENETRATION WITH A MODULAR COMPRESSOR SEAL (LINK SEAL, OR EQUAL). (TYP.).
- INSTALL NEW RTU PANEL MOUNTED TO A EQUIPMENT RACK (TYP.).
- APPROXIMATE LOCATION OF BURIED CONDUITS, RACEWAYS OR CABLE SLEEVES (TYP.).
- APPROXIMATE LIMITS OF REMOVAL. RESTORATION SHALL BE COMPLETE. REMOVE AND REPLACE PAVEMENT COMPLETE.
- PROVIDE AND INSTALL NEW RADAR LEVEL SENSOR. COORDINATE MOUNTING LOCATION WITH THE CITY AND DISTRICT.
- MINOR ANTENNA RACK, ANTENNA'S AND CABLES. INSTALL WITH MINIMUM 10' SEPARATION OF MAJOR ANTENNA. COORDINATE ACTUAL INSTALLATION PER MFR AND SI (TYP.).
- LOCATE EQUIPMENT ON TOWER AT NEW LOCATION**

PROPOSED CONTRACTOR SUBSTITUTE TOWER INSTALLATION PLAN

LIFT STATION NO.7 SITE PLAN - ELECTRICAL		PROJECT NO: 00626000	DATE: JANUARY 2010	SCALE: AS SHOWN	DESIGNED BY: SRC	DATE: 12/9/10	REVISION: REVISED TOWER LOCATION	BY: RWM
PARKLAND SANITARY DISTRICT NO.1 WASTEWATER COLLECTION SYSTEM PARKLAND TOWNSHIP, DOUGLAS COUNTY, WISCONSIN		DATE: JANUARY 2010	DESIGNED BY: SRC	DATE: 12/9/10	REVISION: REVISED TOWER LOCATION	BY: RWM	<p>TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL 301 West First Street Duluth, MN 55802 218-722-3915 1-800-777-7380 Fax: 218-722-4548 MSA PROFESSIONAL SERVICES</p>	