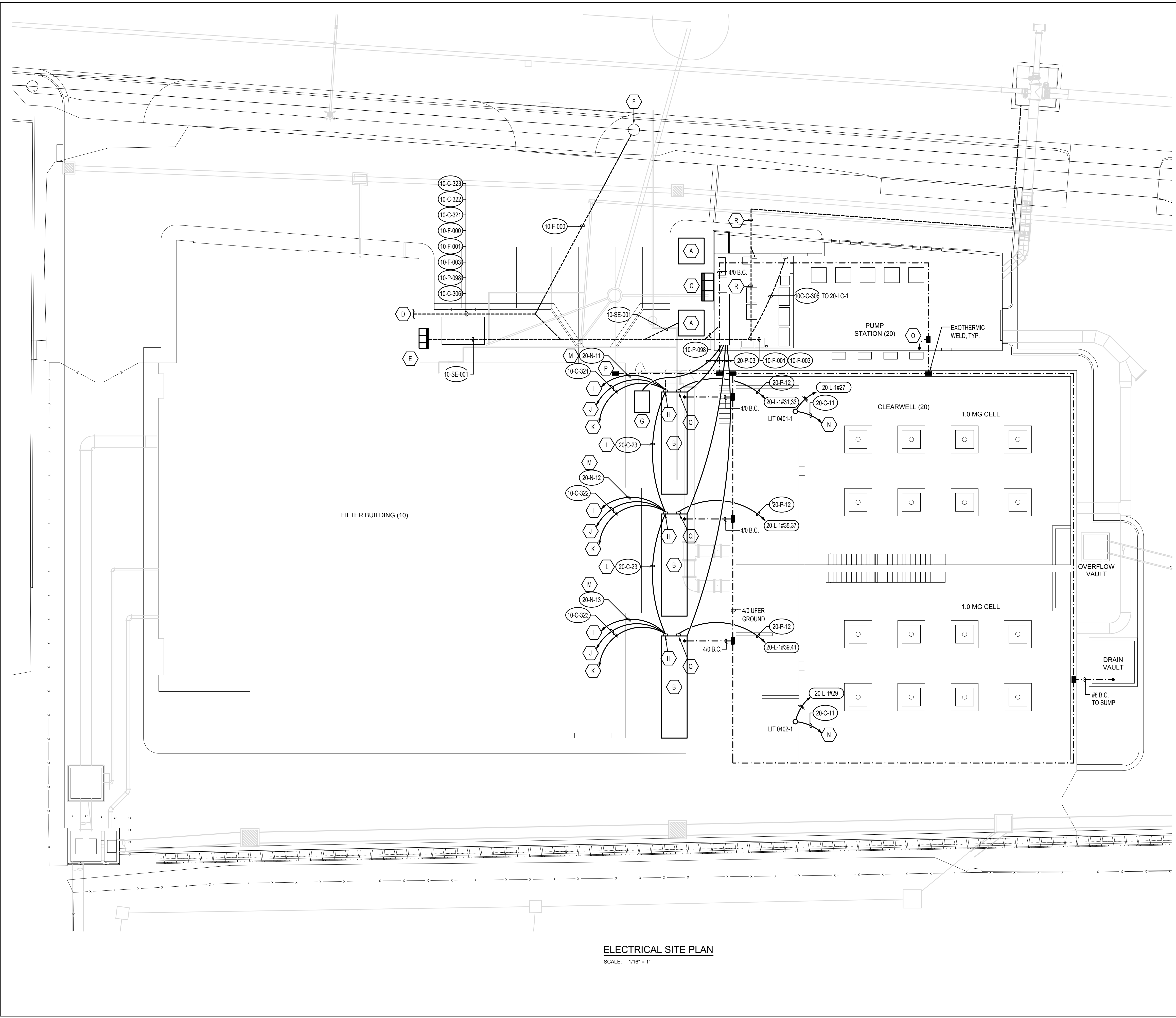


ANSI D 22" x 34" Approved: RHILLER Checked: RHILLER Designer: RHILLER Drafter: HEATH ENGINEERING Project Manager: RHILLER

Last Plotted: 14.04.2023
Filename: 10203701-DWG\REP22037-PS-G-TBLK.dwg



ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

KEY NOTES

A

UTILITY TRANSFORMER

B

GENERATOR

C

METER AND DISCONNECT 20-MB-1

D

REFER TO 10 SERIES SHEETS FOR CONTINUATION.

E

METER AND DISCONNECT, 10-MB-1

F

STUB-UP CONDUIT AT LEAST 12'-0" AFG. COORDINATE WITH CLIENT FOR THE FIBER OPTIC SERVICE.

G

PAD-MOUNTED 1000KW RESISTIVE LOAD BANK

H

GENERATOR CONTROLLER. EMCP 4.4 OR EQUAL

I

1" CONDUIT WITH CAT 6 CABLE TO SCADA ETHERNET SWITCH IN PUMP STATION FOR GENERATOR MONITORING AND ALARMS

J

TO FILTER BUILDING ATS

K

TO PUMP STATION ATS

L

CONNECT ETHERNET BETWEEN ALL GENERATOR CONTROLLERS IN A RING

M

SEE NETWORK CONDUIT SCHEDULE

N

TO PLC

O

BOND TO BUILDING STEEL WHERE PRACTICAL

P

TO FILTER BUILDING GROUND GRID

Q

GENERATOR AUXILIARY PANEL

R

SEE 30-E101 AND 30-D101 FOR CONDUIT INFORMATION

AECOM

HANSEN

ALLEN

& LUCE inc

ENGINEERS

PROJECT

PROVO RIVER

WATER TREATMENT

PLANT

CLIENT

PROVO CITY

PUBLIC WORKS

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HEATH

Engineering Company

REGISTRATION

ISSUE/REVISION

B	2023-04-07	ISSUED FOR BID
A	2023-01-20	ISSUED FOR 90%
I/R	DATE	DESCRIPTION

PROJECT NUMBER

AECOM Project No. - 60670884

HAL Project No. - 035.15.420

SHEET TITLE

PLANT SITE

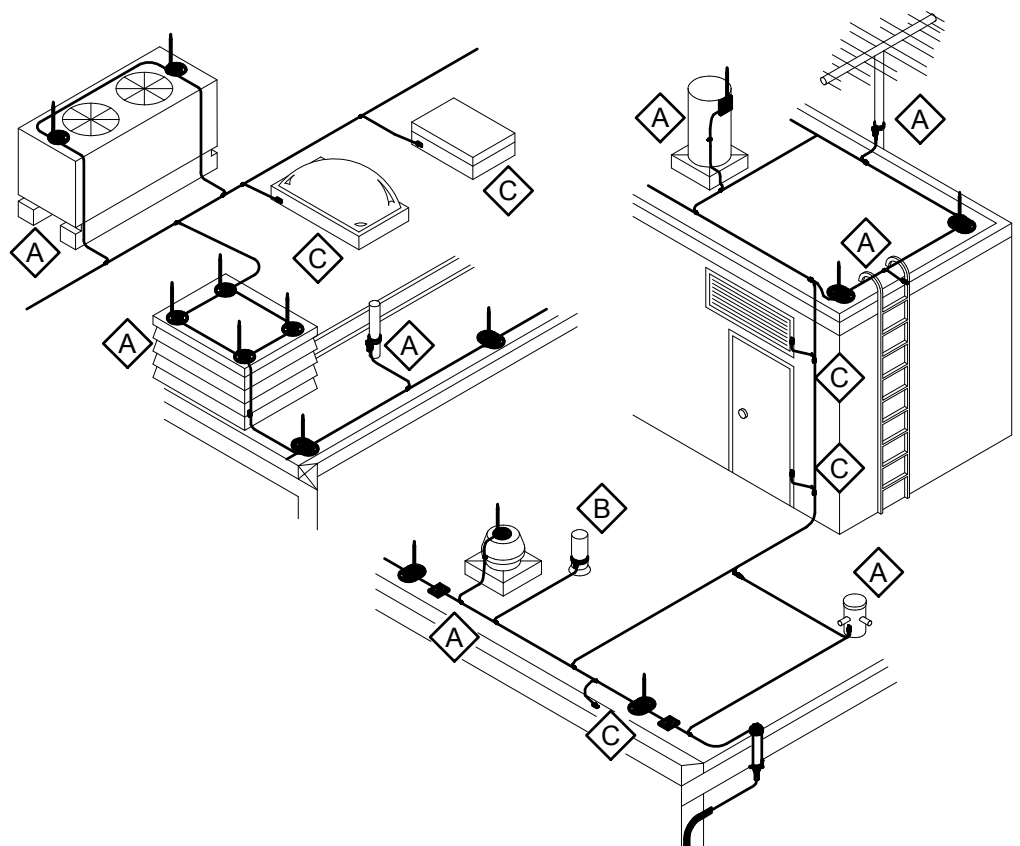
ELECTRICAL

SITE PLAN

DRAWING NUMBER

01-E100

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01-E101



BAR IS ONE INCH ON ORIGINAL DRAWING



1. REFER TO SHEET 10-E611 FOR LIGHT FIXTURE SCHEDULE.



- A. ROUTE THROUGH EXTERIOR LIGHTING CONTROL PANEL. 10-LC-1 IN WTP ELEC 117. REFER TO SHEET **10-E402**.
- B. 2#10, 1#10G, 1°C. UNLESS NOTED OTHERWISE.
- C. SEE AREA LIGHTING POLE BASE DETAIL, SHEET **39-E704**.
- D. ROUTE THROUGH LIGHTING CONTACTOR 20-LC-1. REFER TO 20 SERIES SHEETS FOR DETAILS AND LOCATION.
- E. ELECTRIC VEHICLE CHARGING STATION. PROVIDE DUAL-PORT CHARGERS WITH 9.6kW PER PORT. ROUTE 2 SETS (3#6, 1#10 GND, 1°C) TO EACH STATION.
- F. 3/03 NEMA 4X DISCONNECT. CONNECT GATE WITH WFC.
- G. FURNISH & INSTALL NEMA 4X J-BOXES BELOW DISCONNECT FOR DISCRETE SIGNALS. CONNECT WITH WFC.
- H. REFER TO SITE PLAN FOR CONTINUATION.
- I. SLIDE GATE PEDESTAL WITH ELECTRIC ACTUATOR. TYPICAL.
- J. ELECTRICAL CONDUITS. SEE SHEET **01-D101** FOR MORE INFORMATION. TYPICAL.
- K. THREE NEMA 4X J-BOXES; ONE EACH FOR POWER, DISCRETE SIGNALS, & ANALOG SIGNALS. SEAL ALL CONDUITS. MOUNT AS HIGH AS POSSIBLE ON WALL.
- L. PROVIDE 20A, GFI, DUPLEX RECEPTACLE WITH WP COVER FOR SUMP PUMP. MOUNT AS HIGH AS POSSIBLE ON WALL. EXTEND 3/4"C, 2#10, 1#10G TO POWER J-BOX.
- M. FLOAT SWITCH. EXTEND 3/4"C, 2#14, 1#12G TO DISCRETE J-BOX.
- N. 3-WAY LIGHT SWITCH WITH WP COVER. MOUNT AS HIGH AS POSSIBLE ON WALL NEXT TO LADDER. EXTEND AND CONNECT.
- O. PROVIDE 20A, GFI, DUPLEX RECEPTACLE & 3-WAY LIGHT SWITCH WITH WP COVER. MOUNT AS HIGH AS POSSIBLE ON WALL NEXT TO LADDER. EXTEND 3/4"C, 2#10, 1#10G TO POWER J-BOX.
- P. CONNECT POWER FROM J-BOX. CONNECT WITH WFC WITH A MAXIMUM LENGTH OF 36". 3/4"C, 2#10, 1#10G.
- Q. CONNECT MONITORING FROM J-BOX. CONNECT WITH WFC WITH A MAXIMUM LENGTH OF 36".
- R. TWO NEMA 4X J-BOXES; ONE EACH FOR POWER AND ANALOG SIGNALS. SEAL ALL CONDUITS. MOUNT AS HIGH AS POSSIBLE ON WALL.
- S. CONNECT POWER FROM LCP-0102-2 TO J-BOX WITH WFC WITH A MAXIMUM LENGTH OF 36". 3/4"C, 2#10, 1#10G.
- T. HATCH SWITCH. EXTEND 3/4"C, 2#14, 1#12G TO DISCRETE J-BOX.
- U. 150W EXHAUST FAN. BY OTHERS.
- V. 8#10, 4#10G, 1-1/2"C.
- W. FURNISH & INSTALL FOUR NEMA 4X J-BOXES. ONE EACH FOR 480V POWER, 120V POWER, DISCRETE SIGNALS, & ANALOG SIGNALS. FROM 120V J-BOX ROUTE FEEDER TO LCP-0102-2 FOR PMP-0102-2.
- X. LOCATE LCP-0102-2 IRRIGATION SYSTEM CONTROLLER IN THIS AREA INSIDE THE BUILDING.

PROVO RIVER WATER TREATMENT PLANT

CLIENT

PROVO CITY PUBLIC WORKS

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Provo, UT 84606
Tel: (801) 852-6700**

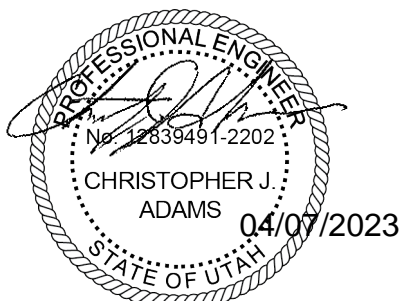


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AECOM Project No. - 60670884
HAL Project No. - 035.15.420

SHEET TITLE

PLANT SITE ELECTRICAL LIGHTING AND POWER PLAN

DRAWING NUMBER

01-E102