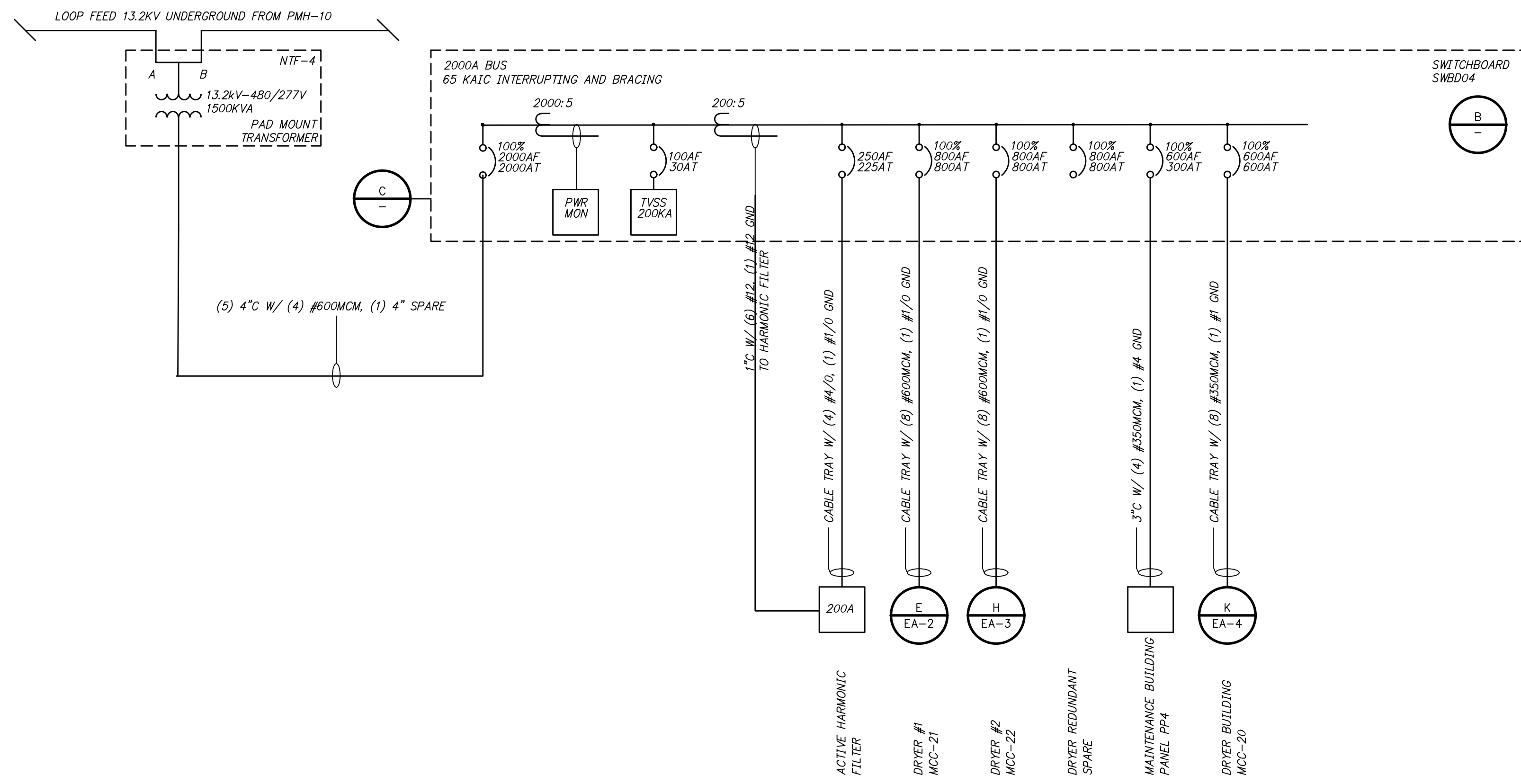


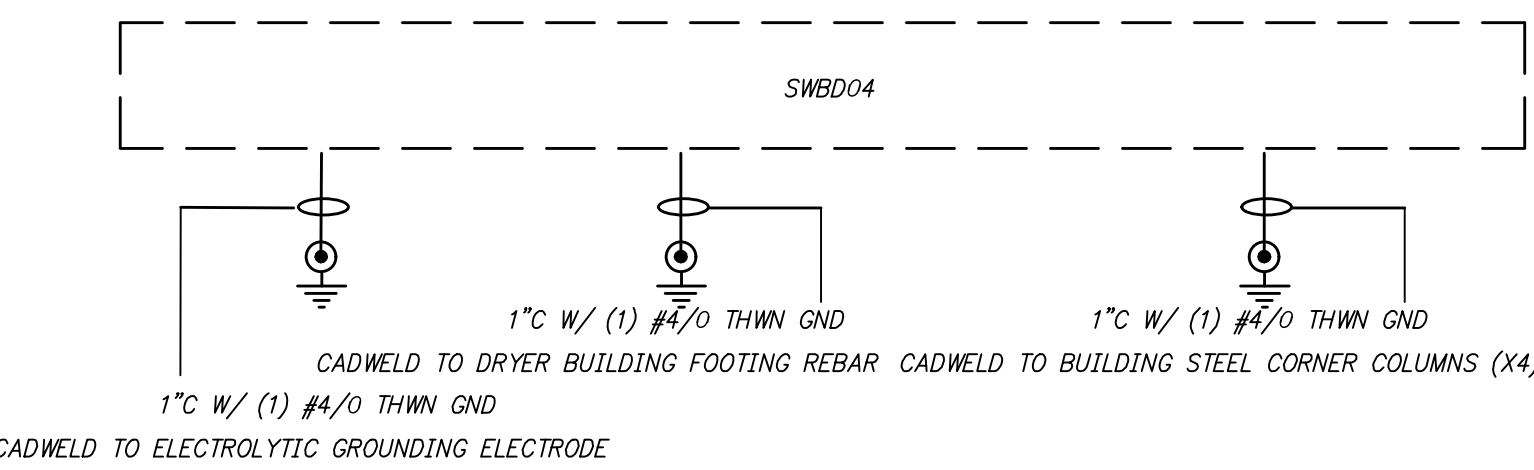
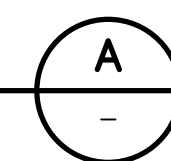
Z:\20\2020043 ROGERS SOLIDS HANDLING IMPROVEMENTS, PH. 2\DRAWINGS\CONSTRUCTION DRAWINGS\WIP\EA-01.DWG, 8/26/2024 11:13 AM, MATT WEIR, LAYOUT



DRYER BUILDING ELECTRICAL ONE-LINE DIAGRAM

DETAIL A

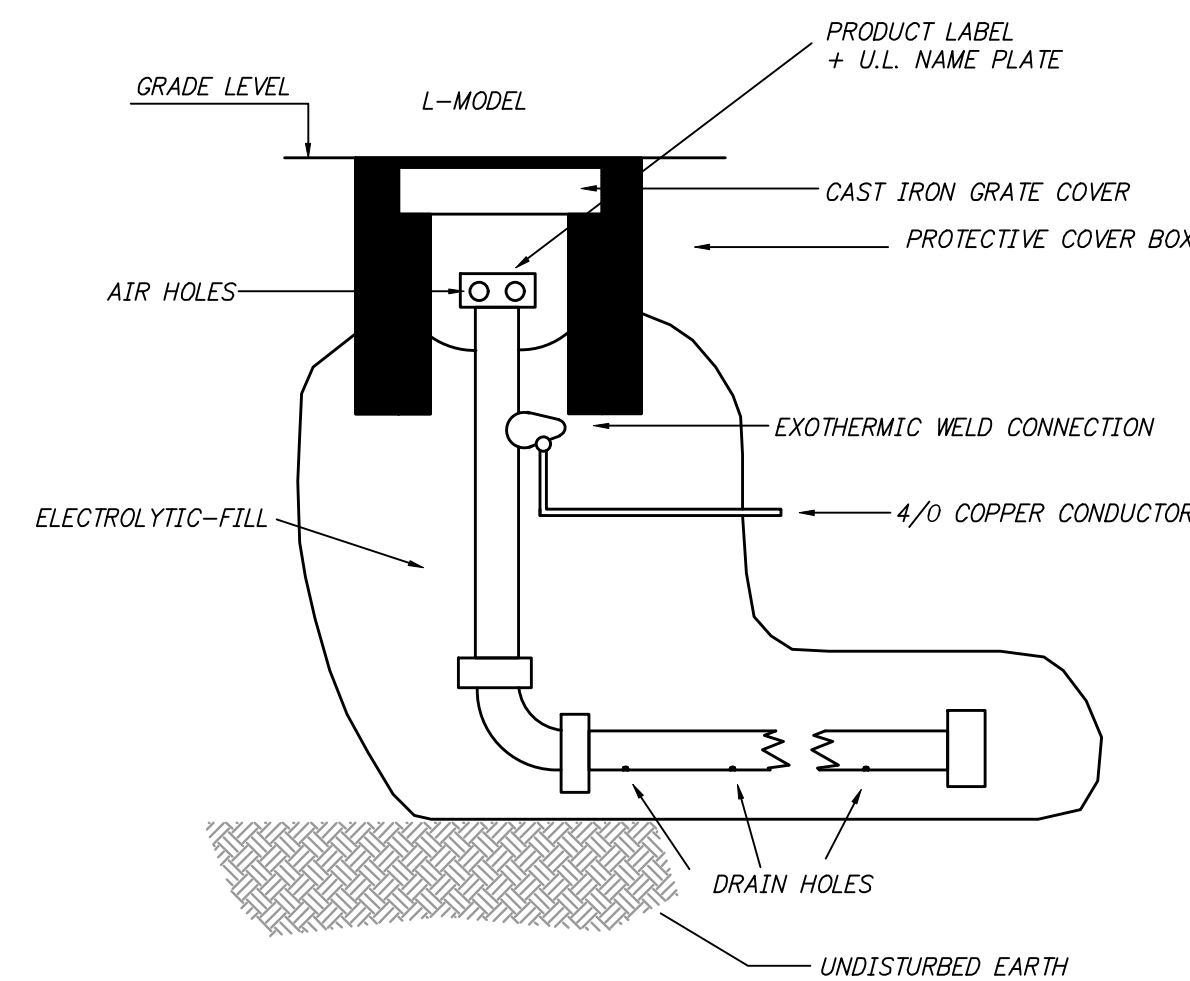
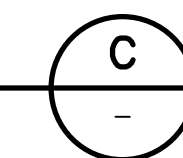
NTS



GROUNDING ELECTRODE CONDUCTORS

DETAIL C

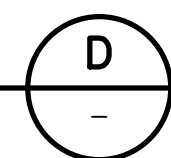
NTS



ELECTROLYTIC GROUNDING ELECTRODE

DETAIL D

NTS



SWITCHBOARD SWBD04

CKT #	DESCRIPTION	WIRE (GND)	CB (PANEL SPACE)	CONDUIT	LOAD AMPS PHASE A		LOAD AMPS PHASE B		LOAD AMPS PHASE C	
					CONNECTED	DEMAND	CONNECTED	DEMAND	CONNECTED	DEMAND
1	DRYER #1 MCC-21	(2)#600 (#1/0)	800 (7.5")	CBL TRAY	535	535	535	535	535	535
2	DRYER #2 MCC-22	(2)#600 (#1/0)	800 (7.5")	CBL TRAY	535	535	535	535	535	535
3	REDUNDANT DRYER SPARE	800 (7.5")								
4	ACTIVE HARMONIC FILTER	250 (4.5")			200	0	200	0	200	0
5	MAINTENANCE BUILDING	300 (7.5")			205	157	205	157	127	127
6	DRYER BUILDING MCC-20	600 (7.5")			225	225	225	225	225	225
5	SPD 200KA I-LINE MOUNT	30 (13.5")								
6	SPACE	(18")								
TOTAL CONNECTED					1700		1700		1400	
TOTAL DEMAND					1452		1452		1200	

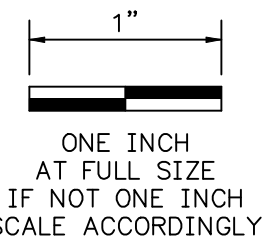
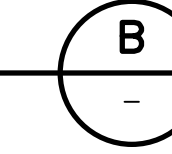
TYPE: SQUARE D QED-2 SWITCHBOARD MAIN CB WITH I-LINE PANEL SINGLE ROW INTERIOR, OR EQUAL
 VOLTS: 277/480, THREE PHASE, FOUR WIRE
 MAIN CB: 2000 AMP 65KAIC UL489 AND UL1066 100% RATED, STORED ENERGY STATIONARY MOUNTED, BOTTOM FEED
 MAIN CB: LSIG TRIP UNIT WITH AMMETER
 BRANCH SECTION: 2000 AMP INTERIOR, SINGLE ROW MAX CB FRAME 1200A, TOP CABLE ENTRY, 72" MOUNTING SPACE
 BRANCH CB: LI TRIP UNIT WITH AMMETER FOR EACH BRANCH CB EXCEPT SPD/TVSS
 OPTIONAL ITEM: SPD/TVSS 200KA MOUNTED IN THE BRANCH BREAKER SECTION
 OPTIONAL ITEM: POWERLOGIC PM5560 WITH 40I/200 AND ETHERNET 1P PROTOCOL
 MOUNTING: FREE STANDING
 ENCLOSURE RATING: NEMA 1

CONNECTED KVA: 1413
 DEMAND KVA: 1207
 DESIGN KVA: 1500

SWITCHBOARD SWBD04 SCHEDULE

DETAIL B

NTS



ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

DATE	REVISION



HAWKINS WEIR ENGINEERS, INC.
BLACK & VEATCH

ROGERS, ARKANSAS
 ROGERS POLLUTION CONTROL FACILITY (PCF) SOLIDS HANDLING IMPROVEMENTS, PHASE II
 DRYER BUILDING ELECTRICAL ONE-LINE DIAGRAM, SWITCHBOARD SCHEDULE AND DETAILS
 FOR: ROGERS WATER UTILITIES

DATE: AUGUST 2024
 SCALE: NTS
 DESIGNED BY: LSM
 DRAWN BY: LSM
 HWEI NO.: 2020043
 FILENAME: EA-01

SHEET NO. EA-1