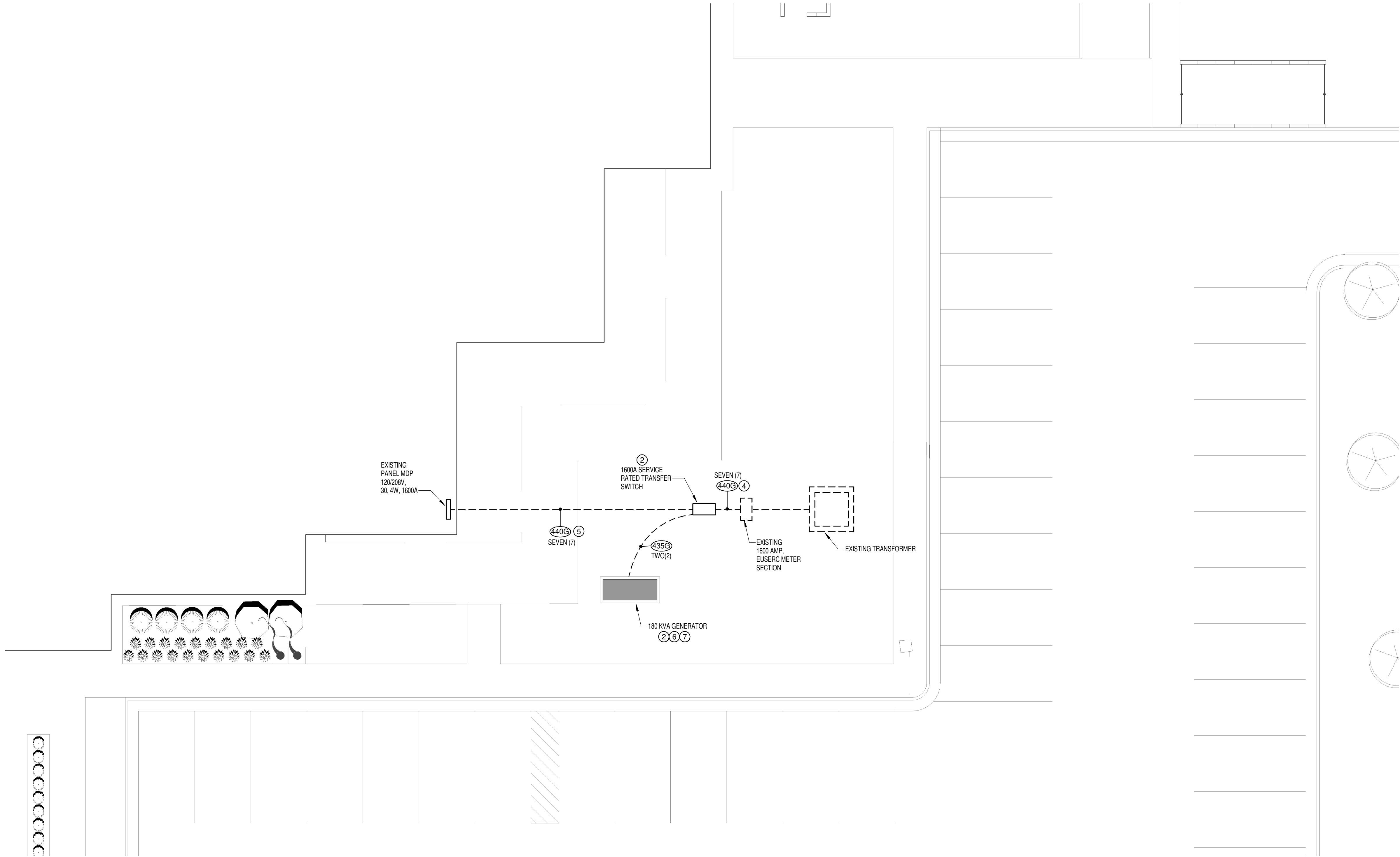


SCHEDULE-CONDUIT CONDUCTORS									
Y DENOTES NUMBER OF CONDUCTORS Y DENOTES CONDUCTOR SIZE Z (WHEN INDICATED) DENOTES GROUND CONDUCTOR TYPE "G" FOR CODE SIZE GROUND "G" FOR CODE SIZE ISOLATED GROUND									
TYPE	AMP (1)	COND. QUAN. (2)	CONDUCTOR SIZE (3)	INSULATION EQUIV. (4)	SERV. (5)	GND. SIZE (6)	GND. TYPE (7)	GND. TYPE (8)	GND. TYPE (9)
(12)	20	3/4 (6)	2	12	THHN/THWN	12	8		
(12)	30	3	3						
(12)	40	4	4						
(12)	50	2	10			10			
(12)	60	3	3						
(12)	75	4	4						
(12)	90	2	6			6			
(12)	100	3	3						
(12)	115	1 1/2	3	2		6			
(12)	130	3	1			6			
(12)	150	3	1 1/2						
(12)	175	3	2 1/2			4			
(12)	200	2 1/2	3	3 1/2		4			
(12)	225	3	4 1/2			2			
(12)	250	3	5						
(12)	300	4	3	5 1/2		1 1/2			
(12)	350	3	4	6 1/2					
(12)	400	2 1/2	6	3 1/2		3			
(12)	450	3	8	4 1/2					
(12)	500	3	10						
(12)	600	3	3 1/2	1	2 1/2				
(12)	800	4	1 1/2	3 1/2	1 1/2				
(12)	1200	4	3 1/2	3 1/2	3 1/2				
(12)	2000	8	3 1/2	2 1/2	2 1/2				

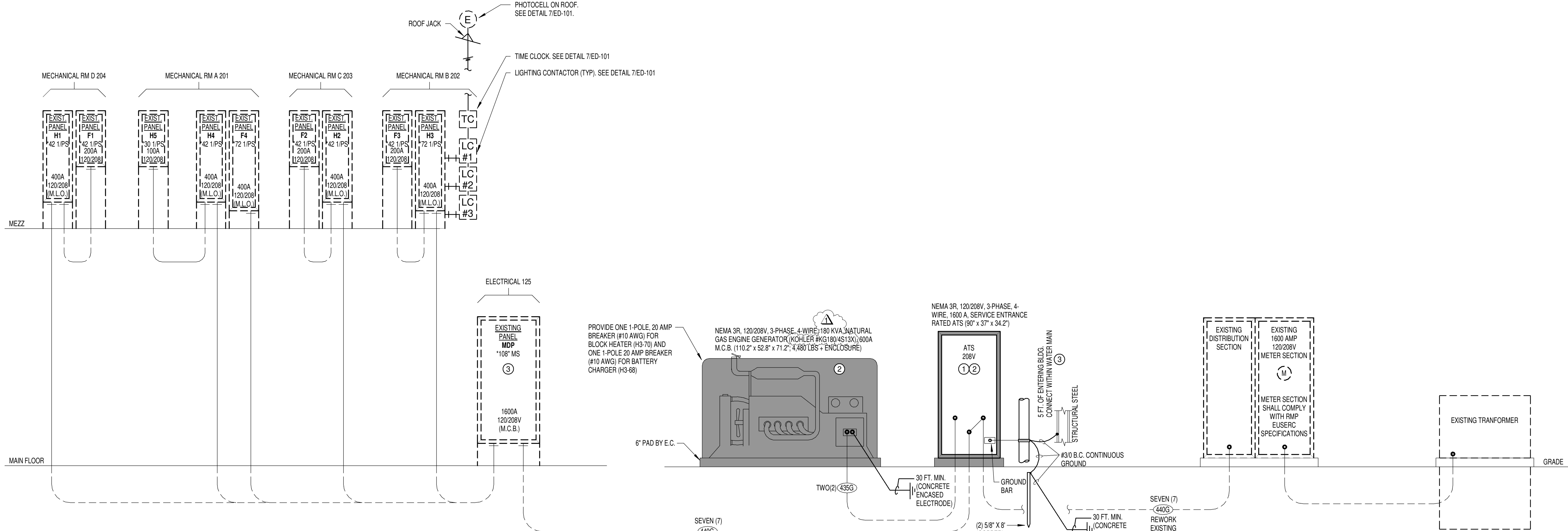
- 1) NEC 240.4(D) AND TABLE 310.16 (COPPER WITH 75°C RATING).
- 2) NEC ANNEX C TABLE C1 (EMT), TABLE C3 (FMC), TABLE C4 (IMC), TABLE C7 (LFMC), TABLE C8 (RMC), TABLE C9 (PVC-SCHED. 80), TABLE C10 (PVC-SCHED. 40), TABLE C11 (RIGID PVC-TYPE A), EXCLUDES TABLES C2, C5, C6, C12.
- 3) THHN CONDUCTORS SHALL BE INSTALLED IN DRY/DAMP LOCATIONS AND THWN CONDUCTORS SHALL BE INSTALLED IN WET LOCATIONS. NEC 100-1 LOCATION, DRY (LOCATION, WET) AND 310.8 (B), (C).
- 4) FOR AMPERAGE > 400 OR PARALLEL CONDUCTORS REFER TO NEC 250.86 (SERVICE ELECTRODE) AND 250.122 (EQUIPMENT GROUND).
- 5) ALL CONDUCTORS (IN PHASE, NEUTRAL, GROUND) SHALL BE COPPER.
- 6) MINIMUM SITE CONDUIT SIZE IS 1 1/2"



E-503 KEY NOTES	
1	TRANSFER SWITCH SHALL BE SERVICE ENTRANCE RATED.
2	GENERATOR AND TRANSFER SWITCH PROVIDED AND INSTALLED BY E.C.
3	E.C. TO REWORK GROUNDING SYSTEM FROM EXISTING "MDP" TO NEW SERVICE RATED TRANSFER SWITCH. THIS WORK SHOULD INCLUDE THE ISOLATION OF NEUTRALS FROM GROUND BAR IN EXISTING "MDP" PER NEC AND REMOVE BONDING OF NEUTRAL AND GROUND BAR IN THIS PANEL.
4	REWORK EXISTING CONDUIT/FEEDER INTO NEW ATS.
5	REWORK EXISTING CONDUIT INTO NEW ATS AND INSTALL NEW FEEDER BETWEEN ATS AND EXISTING PANEL "MDP".
6	INSTALL CIRCUITS FOR GENERATOR BLOCK HEATER AND BATTERY CHARGER AS NOTED IN RISER. PANEL "H3" IS IN THE MEZZANE. COORDINATE CONDUIT ROUTE WITH OWNER. PRIOR TO BID.
7	INSTALL RE-INFORCED CONCRETE PAD TO SUPPORT NATURAL GAS GENERATOR PER MANUFACTURER. LOCATE GENERATOR AS DIRECTED BY OWNER MAINTAINING ALL CODE AND ACCESSIBILITY REQUIREMENTS.

E-503 GENERATOR SITE PLAN

1" = 10'-0"



E-503 POWER RISER

1/8" = 1'-0"

BID SET

THIS DRAWING IS AN APPROXIMATE RECORD OF BUILT CONDITIONS AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. ALL BUILT CONDITIONS NEED TO BE VERIFIED PRIOR TO INITIATING NEW WORK.

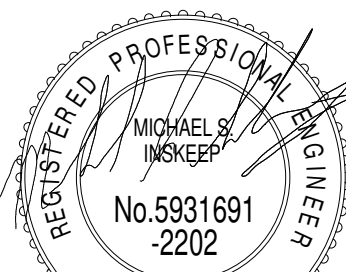
CACHE COUNTY EVENT CENTER

490 SOUTH 500 WEST, LOGAN, UT 84321

CACHE COUNTY, UT

MARK	DATE	DESCRIPTION
1	6-6-25	

PROJECT #:	1710
DRAWN BY:	Author
CHECKED BY:	MSI
ISSUED:	06.05.25



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GENERATOR RISER AND DETAILS

E-503