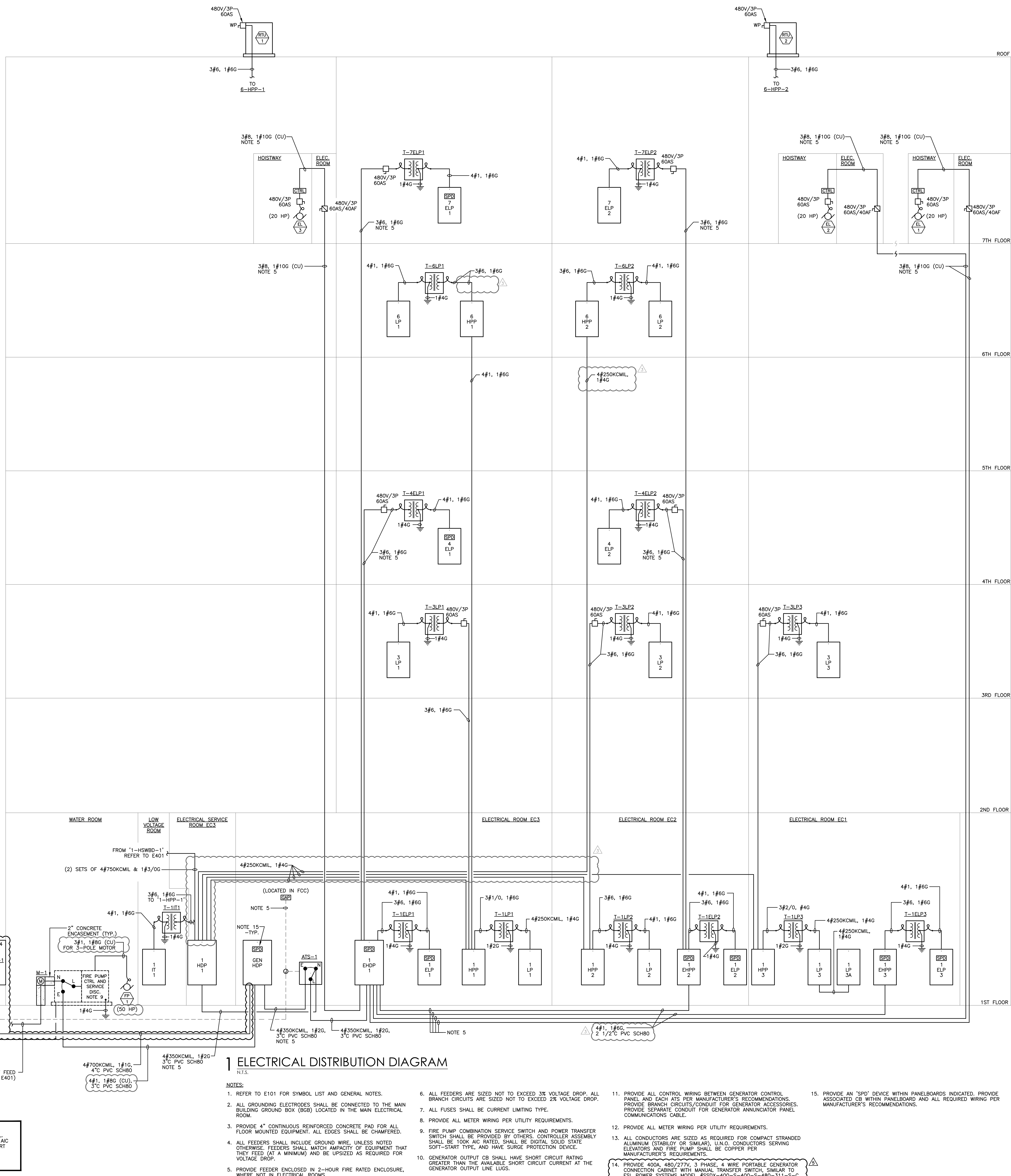


COMMERCIAL TRANSFORMER SCHEDULE											
TRANSFORMER DESIGNATION	KVA	PRIMARY			SECONDARY			TEMP RISE	REMARKS		
		VOLTS	PHASE	WIRE	VOLTS	PHASE	WIRE				
T-BD1	750	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-BD2	750	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-BD3	750	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-LP1	75	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-LP2	75	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-LP3	75	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-ELP1	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-ELP2	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-ELP3	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-3LP1	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-3LP2	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-3LP3	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-4ELP1	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-4ELP2	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-4ELP3	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-7ELP1	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-7ELP2	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS
T-11T1	30	480	3	3	DELTA	208	3	4	WYE	150°C	ALUMINUM WINDINGS

AUTOMATIC TRANSFER SWITCH SCHEDULE										
NAME	AMP	SW POLES	SOLID NEUT	VOLTAGE	NOR-STBY DELAY SEC	GEN START (Y OR N)	STBY-NOR DELAY (MIN)	TYPE	KVA	WITHSTAND
ATS-1	250	3	Y	480	10	Y	3	EMERG	128	65,000A
ATS: FP-1 (BY FFC)	200	3	N	480	15	Y	3	MOTOR	80	100,000A



1 ELECTRICAL DISTRIBUTION DIAGRAM
N.T.S.

- NOTES:**
- REFER TO E101 FOR SYMBOL LIST AND GENERAL NOTES.
 - ALL GROUNDING ELECTRODES SHALL BE CONNECTED TO THE MAIN BUILDING GROUND BOX (BGB) LOCATED IN THE MAIN ELECTRICAL ROOM.
 - PROVIDE 4" CONTINUOUS REINFORCED CONCRETE PAD FOR ALL FLOOR MOUNTED EQUIPMENT. ALL EDGES SHALL BE CHAMFERED.
 - ALL FEEDERS SHALL INCLUDE GROUND WIRE, UNLESS NOTED OTHERWISE. FEEDERS SHALL MATCH AMPACITY OF EQUIPMENT THAT THEY FEED (AT A MINIMUM) AND BE UPSIZED AS REQUIRED FOR VOLTAGE DROP.
 - PROVIDE FEEDER ENCLOSED IN 2-HOUR FIRE RATED ENCLOSURE, WHERE NOT IN ELECTRICAL ROOMS.
 - ALL FEEDERS ARE SIZED NOT TO EXCEED 3% VOLTAGE DROP. ALL BRANCH CIRCUITS ARE SIZED NOT TO EXCEED 2% VOLTAGE DROP.
 - ALL FUSES SHALL BE CURRENT LIMITING TYPE.
 - PROVIDE ALL METER WIRING PER UTILITY REQUIREMENTS.
 - PROVIDE ALL METER WIRING PER UTILITY REQUIREMENTS.
 - FIRE PUMP COMBINATION SERVICE SWITCH AND POWER TRANSFER SWITCH SHALL BE PROVIDED BY OTHERS. CONTROLLER ASSEMBLY SHALL BE 100% AC RATED, SHALL BE DIGITAL SOLID STATE SOFT-START TYPE, AND HAVE SURGE PROTECTION DEVICE.
 - GENERATOR OUTPUT CB SHALL HAVE SHORT CIRCUIT RATING GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE GENERATOR OUTPUT LINE LIVES.
 - PROVIDE ALL CONTROL WIRING BETWEEN GENERATOR CONTROL PANEL AND EACH ATS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE BRANCH CIRCUITS/CONDUIT FOR GENERATOR ACCESSORIES. PROVIDE SEPARATE CONDUIT FOR GENERATOR ANNUNCIATOR PANEL COMMUNICATIONS CABLE.
 - PROVIDE ALL METER WIRING PER UTILITY REQUIREMENTS.
 - ALL CONDUCTORS ARE SIZED AS REQUIRED FOR COMPACT STRANDED ALUMINUM (STABLOY OR SIMILAR). U.N.O. CONDUCTORS SERVING ELEVATORS AND FIRE PUMP SHALL BE COPPER PER MANUFACTURER'S REQUIREMENTS.
 - PROVIDE 400A, 480/277V, 3 PHASE, 4 WIRE PORTABLE GENERATOR CONNECTION CABINET WITH MANUAL TRANSFER SWITCH, SIMILAR TO ESL POWER SYSTEMS MODEL #SSDX-400-S-400-S-480-311-S-C.
 - PROVIDE AN 'SPD' DEVICE WITHIN PANELBOARDS INDICATED. PROVIDE ASSOCIATED CB WITHIN PANELBOARD AND ALL RELATED WIRING PER MANUFACTURER'S RECOMMENDATIONS.

ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE SHORT CIRCUIT AND COORDINATION STUDY WITH EQUIPMENT SUBMITTAL. INDICATED RATINGS ARE FOR BIDDING PURPOSES ONLY. FINAL AC EQUIPMENT RATINGS SHALL BE SELECTED BASED ON THE SHORT CIRCUIT AND COORDINATION STUDY AND SHALL BE AT NO ADDITIONAL COST TO THE OWNER. SERIES RATINGS SHALL BE ALLOWED.

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no.	revision	init.	date
1	FOUNDATION PERMIT SET	TES	04/03/2021
2	ISSUED FOR BUILDING PERMIT	TES	09/13/2021
3	PERMIT REVISION	TES	11/03/2021
4	REVISION 2	TES	11/29/2021
5	REVISION 3	TES	01/18/2022
6	REVISION 4	TES	02/18/2022
7	REVISION 5	TES	05/27/2022
8	REVISION 6	TES	10/14/2022
9	REVISION 7	TES	10/27/2022
10	REVISION 8	TES	12/19/2022
11	REVISION 9	TES	03/15/2023
12	REVISION 10	TES	05/11/2023
13	REVISION 11	TES	08/06/2023

ELECTRICAL DISTRIBUTION DIAGRAM

date _____ drawn by _____ ELS checked by _____ ELS

Job No. **16020C**

Sheet No. **E402**