

ARCHITECT OF RECORD



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DEVELOPER:



SEAL:



REVISIONS:

NO.	DESCRIPTION

CVS PROJECT MANAGER: SB

DRAWING BY: WRC

DATE: 07-22-2019

JOB NUMBER: 121-12600-08

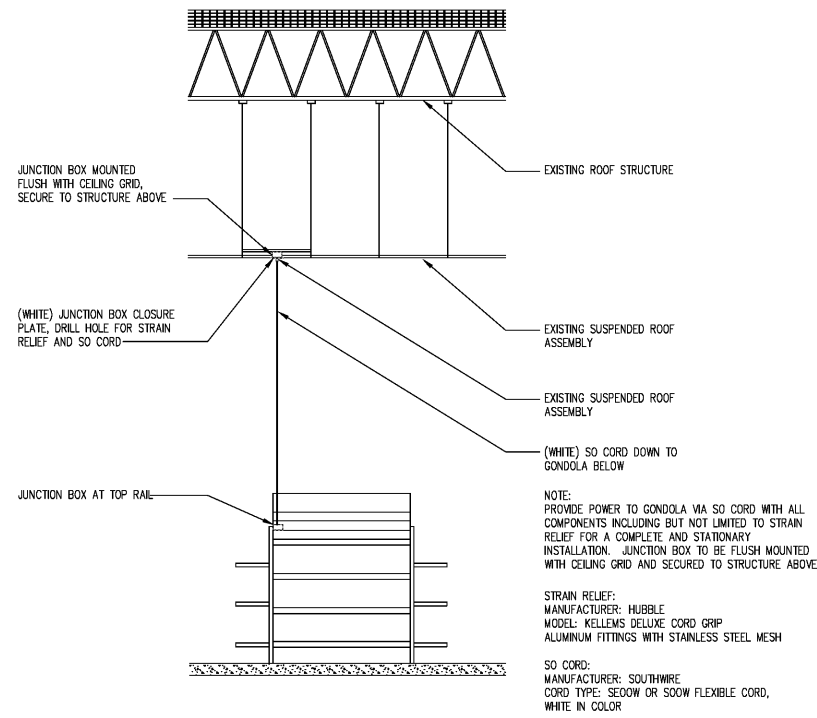
TITLE:

ELECTRICAL
DIAGRAMS

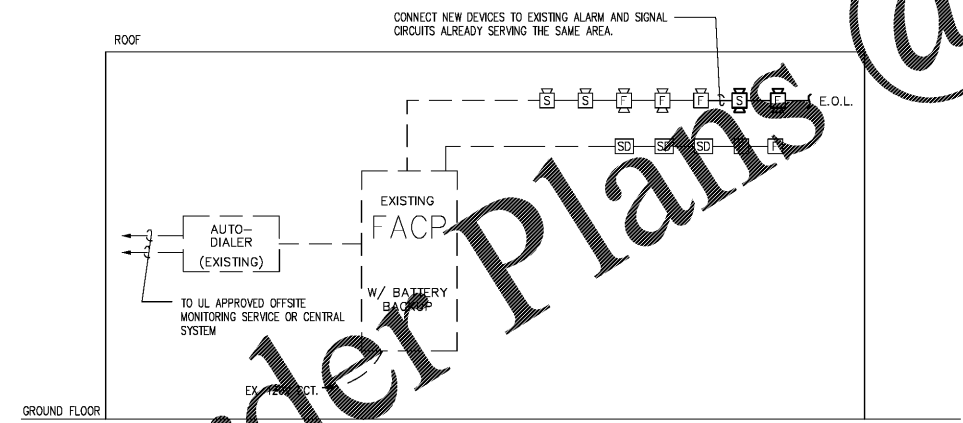
SHEET NUMBER:

E4

COMMENTS:



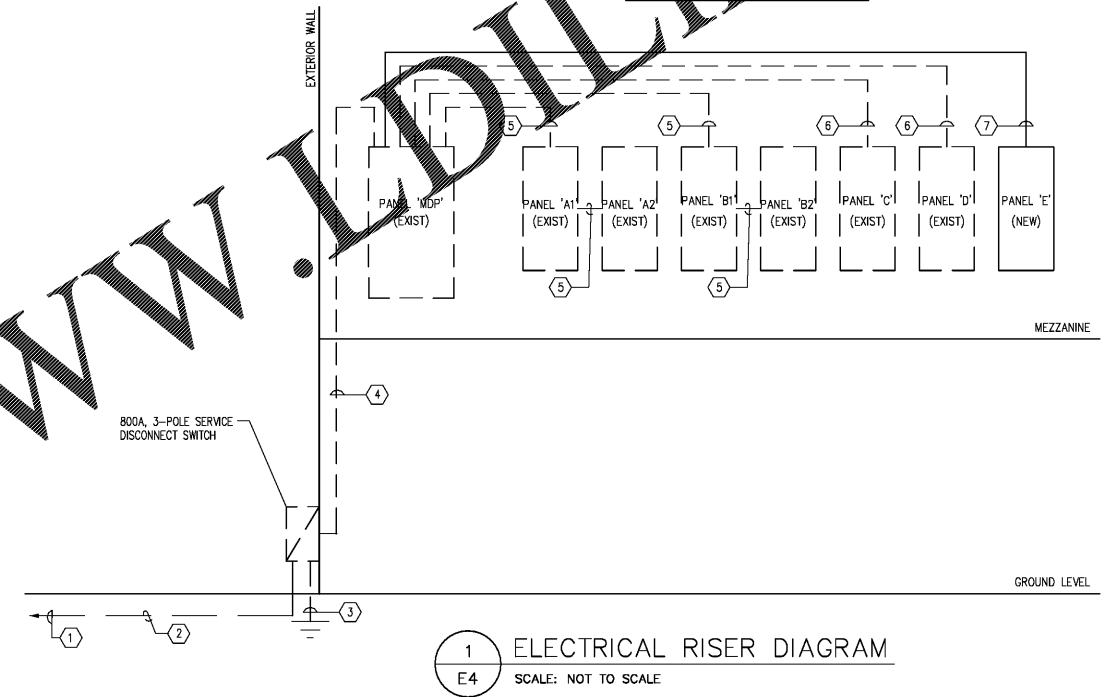
3 POWER DROP (SO CORD) MOUNTING DIAGRAM
E4 SCALE: NOT TO SCALE



2 PARTIAL FIRE ALARM RISER DIAGRAM
E4 SCALE: NOT TO SCALE

FIRE ALARM RISER DIAGRAM NOTES:

- ALL DEVICE QUANTITIES SHALL BE TAKEN OFF OF THE FLOOR PLANS. THE RISER DIAGRAM IS DIAGRAMMATIC ONLY.
- ALL NEW FIRE ALARM INITIATING DEVICES SHALL MATCH EXISTING FIRE ALARM SYSTEM EQUIPMENT.
- ALL FIRE ALARM WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND N.E.C. REQUIREMENTS.
- INSTALLATION OF ALL WIRING, CONDUIT AND DEVICES SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY CODES AND NFPA CODES.
- PROVIDE ADDITIONAL CONTROL CARDS, POWER SUPPLIES, EXTENDER CABINET(S), etc. AS NEEDED TO ACCOMMODATE NEW DEVICES SHOWN ON PLANS. ANY ADDITIONAL CABINETS REQUIRED SHALL BE LOCATED AS DIRECTED BY OWNER.
- ALL ITEMS SHOWN DASHED ARE EXISTING TO REMAIN.
- UPON COMPLETION OF INSTALLATION, NEW SYSTEM DEVICES SHALL BE TESTED AND THE SYSTEM RE-CERTIFIED THAT IT IS IN FULL AND PROPER OPERATION. COORDINATE TESTING SCHEDULE WITH OWNER IN WRITING PRIOR TO TESTING.



PANELBOARD MDP LOAD SUMMARY		PANELBOARD A1 & A2 LOAD SUMMARY	
RATED LOAD (80% of circuit brkr. rating of panel or feeder, whichever is less)	288.2 KVA	RATED LOAD (80% of circuit brkr. rating of panel or feeder, whichever is less)	64.8 KVA
EXISTING LOAD x 1.25:	108.5 KVA	EXISTING LOAD x 1.25:	25.4 KVA
REMOVED LOAD:	9.9 KVA	REMOVED LOAD:	5.6 KVA
ADDED LOAD:		ADDED LOAD:	
CONT. x 1.25:	3.0 KVA	CONT. x 1.25:	2.0 KVA
NON-CONT:	48.3 KVA	NON-CONT:	0.0 KVA
TOTAL LOAD:	149.9 KVA	TOTAL LOAD:	21.8 KVA

PANELBOARD D LOAD SUMMARY	
RATED LOAD (80% of circuit brkr. rating of panel or feeder, whichever is less)	10.0 KVA
EXISTING LOAD x 1.25:	4.3 KVA
REMOVED LOAD:	
ADDED LOAD:	
CONT. x 1.25:	0.0 KVA
NON-CONT:	10.8 KVA
TOTAL LOAD:	16.5 KVA

1 ELECTRICAL RISER DIAGRAM
E4 SCALE: NOT TO SCALE

- RISER DIAGRAM NOTES:**
- ALL EQUIPMENT AND FEEDERS SHOWN DASHED ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
 - A.I.C. RATING OF ANY NEW CIRCUIT BREAKERS OR ELECTRICAL EQUIPMENT SHALL MATCH OR EXCEED RATINGS OF EXISTING PANELBOARDS/EQUIPMENT TO WHICH THEY ARE TO BE CONNECTED.
 - EXISTING CONDITIONS WERE DETERMINED FROM LIMITED SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY OWNER/ARCHITECT/ENGINEER IMMEDIATELY OF ANY IRRECONCILABLE CONFLICTS.
 - CONTRACTOR SHALL FIELD VERIFY LOADING ON EXISTING PANELBOARDS TO BE AFFECTED BY THIS PROJECT, PRIOR TO BEGINNING CONSTRUCTION. AT THE COMPLETION OF PROJECT, CONTRACTOR SHALL ONCE AGAIN VERIFY LOADING OF AFFECTED PANELBOARDS TO CONFIRM THAT NO PANELBOARD/FEEDER IS BEING OVERLOADED BY THIS WORK.
 - ALL NEW MULTI-CIRCUIT HOMERUNS SHALL BE PROTECTED WITH MULTI-POLE, SIMULTANEOUS-TRIP CIRCUIT BREAKERS PER N.E.C. 210.4B.
 - ALL NEW WIRE SHALL BE TYPE THHN/THWN COPPER.
 - SERIES RATING IS NOT ALLOWED ON NEW EQUIPMENT/DEVICES.
 - ALL TERMINATION'S ON NEW ELECTRICAL GEAR/EQUIPMENT (i.e. PANELBOARDS, DISCONNECT SWITCHES, etc.) SHALL HAVE DUAL RATED 60-DEGREE / 75-DEGREE LUGS/TERMINALS.
 - SEE E5 FOR PANEL SCHEDULES.
- ELECTRICAL LEGEND NOTES (RISER DIAGRAM ONLY):**
- EXISTING 208V/120V POWER COMPANY TRANSFORMER AND METER. COORDINATE SERVICE REQUIREMENTS WITH LOCAL POWER COMPANY PRIOR TO ANY WORK.
 - EXISTING 800A, 208V/120V, 3-PHASE, SERVICE FEEDER.
 - EXISTING SERVICE GROUND.
 - EXISTING 800A 3-PHASE FEEDER.
 - EXISTING 225A, 3-PHASE FEEDER.
 - EXISTING 125A, 3-PHASE FEEDER.
 - PROVIDE AND INSTALL NEW (4) #1/0, #6GND. IN 2" C