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**ELECTRICAL SITE PLAN**  
 SCALE: 1"=10'-0"

**LEGEND:**

PLAN SYMBOLS		ABBREVIATIONS	
	ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.	A	AMPERES
	CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.	AFG	ABOVE FINISHED GRADE
	CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.	AIC	AMPS INTERRUPTING CURRENT
	HOME RUN TO PANELBOARD. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. HASH MARKS INDICATE NUMBER OF #12 AWG. CONDUCTORS. NO HASH MARKS INDICATE 2 #12 CONDUCTORS.	CP	CONTROL PANEL
	LEVEL TRANSDUCER	CPT	CONTROL POWER TRANSFORMER
	LIQUID LEVEL SWITCH	FPL	FLORIDA POWER & LIGHT
	TEMPERATURE SWITCH	FVNR	FULL VOLTAGE NON-REVERSING
	SEAL FAIL	GND	GROUND
	PRESSURE TRANSMITTER	HP	HORSEPOWER
	GROUND ROD	LSCP	LIFT STATION CONTROL PANEL
	GROUND TEST WELL	MIN	MINIMUM
		MSC	MANUFACTURER SUPPLIED CABLE
		MTD	MOUNTED
		N	NEUTRAL
		NEC	NATIONAL ELECTRICAL CODE
		NO	NUMBER
		NTS	NOT TO SCALE
		P	POLE
		SLD	SINGLE LINE DIAGRAM
		SPD	SURGE PROTECTION DEVICE
		SS	STAINLESS STEEL
		TYP	TYPICAL
		V	VOLTS
		VA	VOLT AMPERES
		W	WIRE
		WP	WEATHERPROOF
		W/	WITH
		φ	PHASE

**NOTES**

- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED.
- ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC... THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2014 NATIONAL ELECTRICAL CODE, 2020 FLORIDA BUILDING, 2020 NATIONAL FIRE PROTECTION ASSOCIATION, AND SHALL COMPLY WITH ALL LOCAL RULES AND ORDINANCES.
- MINIMUM WIRE SIZE SHALL BE #12 A.W.G. FOR POWER CIRCUITS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. OR LOCAL CODES. ALL CONDUITS SHALL HAVE A BOND WIRE SIZED PER TABLE 250-122 OF THE NATIONAL ELECTRICAL CODE.
- ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/OWNER.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
- THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF FPL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.
- ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/ TYPE WRITTEN DIRECTORIES.
- ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE EXACT DIMENSIONS OF ALL EQUIPMENT.
- SLANTED AND SHADED TEXT DENOTES EXISTING EQUIPMENT OR STRUCTURES. EXISTING EQUIPMENT OR STRUCTURES ARE ALSO CALLED OUT WITH THE WORD "EXISTING" PRECEDING. NON-SLANTED TEXT DENOTES NEW EQUIPMENT, STRUCTURES & WORK.
- ALL CONTROL PANELS SHALL BE UL LISTED AND MEET THE REQUIREMENTS OF ARTICLE 409 OF THE NATIONAL ELECTRICAL CODE.

No.	REVISIONS	DATE	BY

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KHA PROJECT	043138041
DATE	MARCH 2022
SCALE	AS SHOWN
DESIGNED BY	SEB
DRAWN BY	SJL
CHECKED BY	SEB

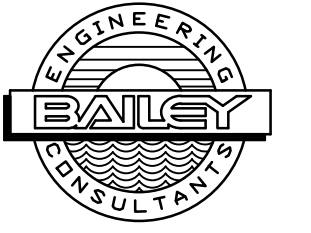
**VILLAGE HALL  
 PUMP STATION IMPROVEMENTS**  
 PREPARED FOR  
**NORTH BAY VILLAGE**  
 NORTH BAY VILLAGE FLORIDA

LICENSED PROFESSIONAL	STEPHEN E. BAILEY, P.E.
FLORIDA LICENSE NUMBER	42461
DATE:	03/09/22

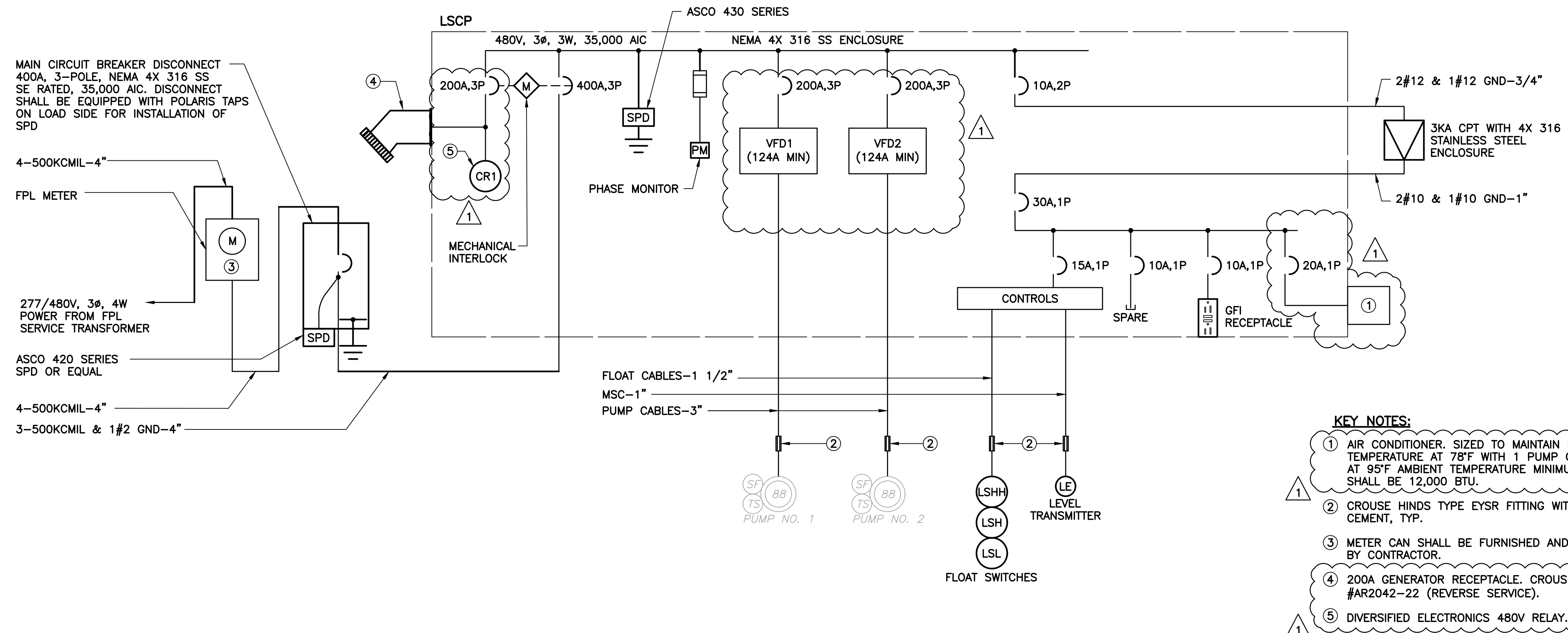
**ELECTRICAL SITE PLAN, NOTES,  
 SYMBOLS AND ABBREVIATIONS**

SHEET NUMBER	E-02
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SINGLE LINE DIAGRAM

LOAD TABULATION		
SERVICE VOLTAGE: 480V, 3 $\phi$ , 4W		
DESCRIPTION	LOAD	AMPACITY
① SUBMERSIBLE PUMPS	2 @ 88 HP EACH	= 210.00 AMPS
MISCELLANEOUS	3 KVA	= 3.60 AMPS
	CONNECTED LOAD	= 213.60 AMPS
	② MINIMUM SERVICE ENTRANCE	= 213.60 AMPS + (0.25)(105.0) = <b>239.85</b> AMPS
NOTES:		
① AMPACITIES PER PUMP MFR. DATASHEETS.		
② SERVICE ENTRANCE MINIMUM SIZE AS PER ARTICLE 230 OF THE NATIONAL ELECTRICAL CODE.		
③ EXISTING PUMP IS FLYGT CP 3300 HT SERIES.		

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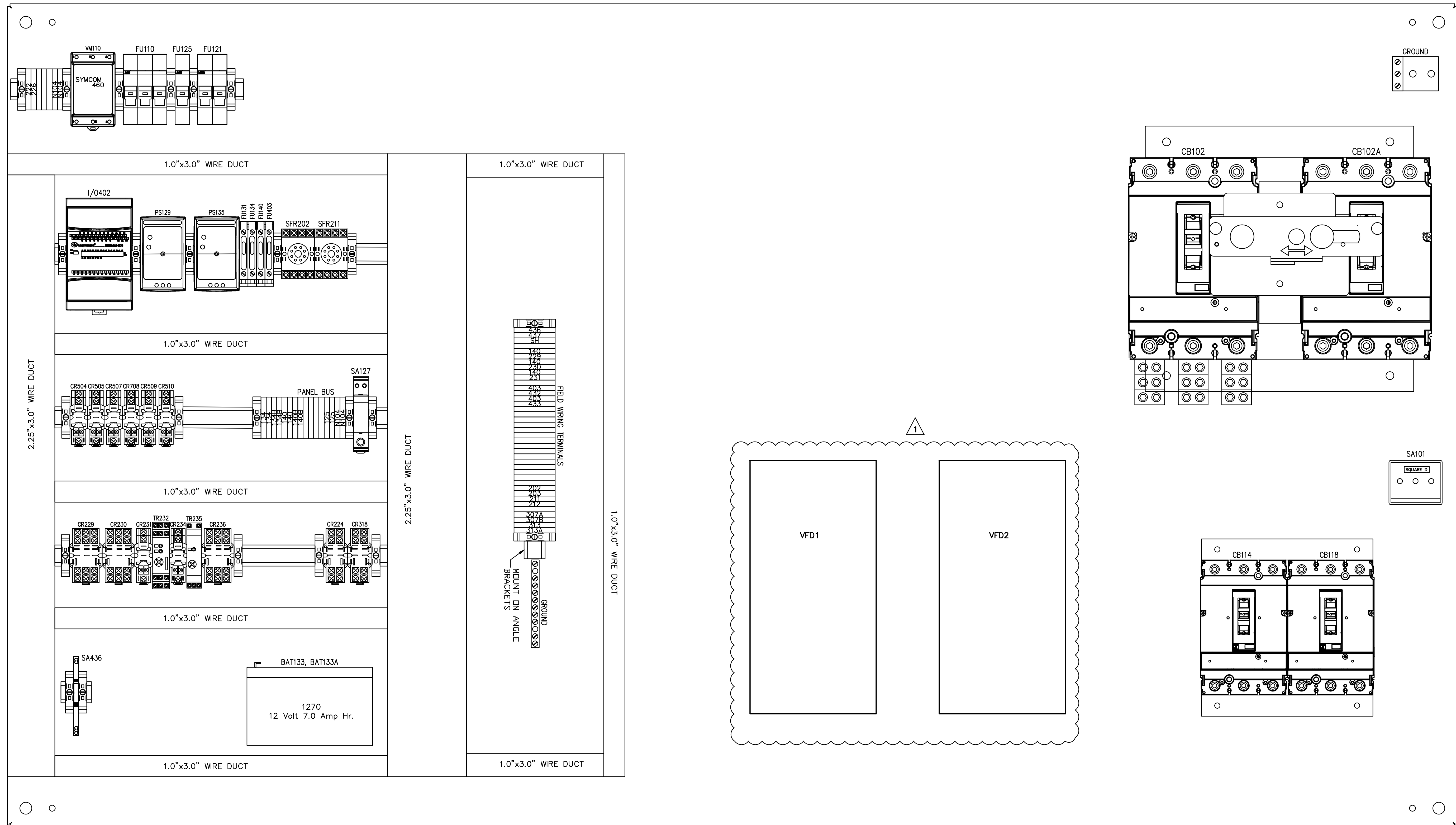
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**SINGLE LINE DIAGRAM**  
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**E-03**

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COMPONENT LAYOUT  
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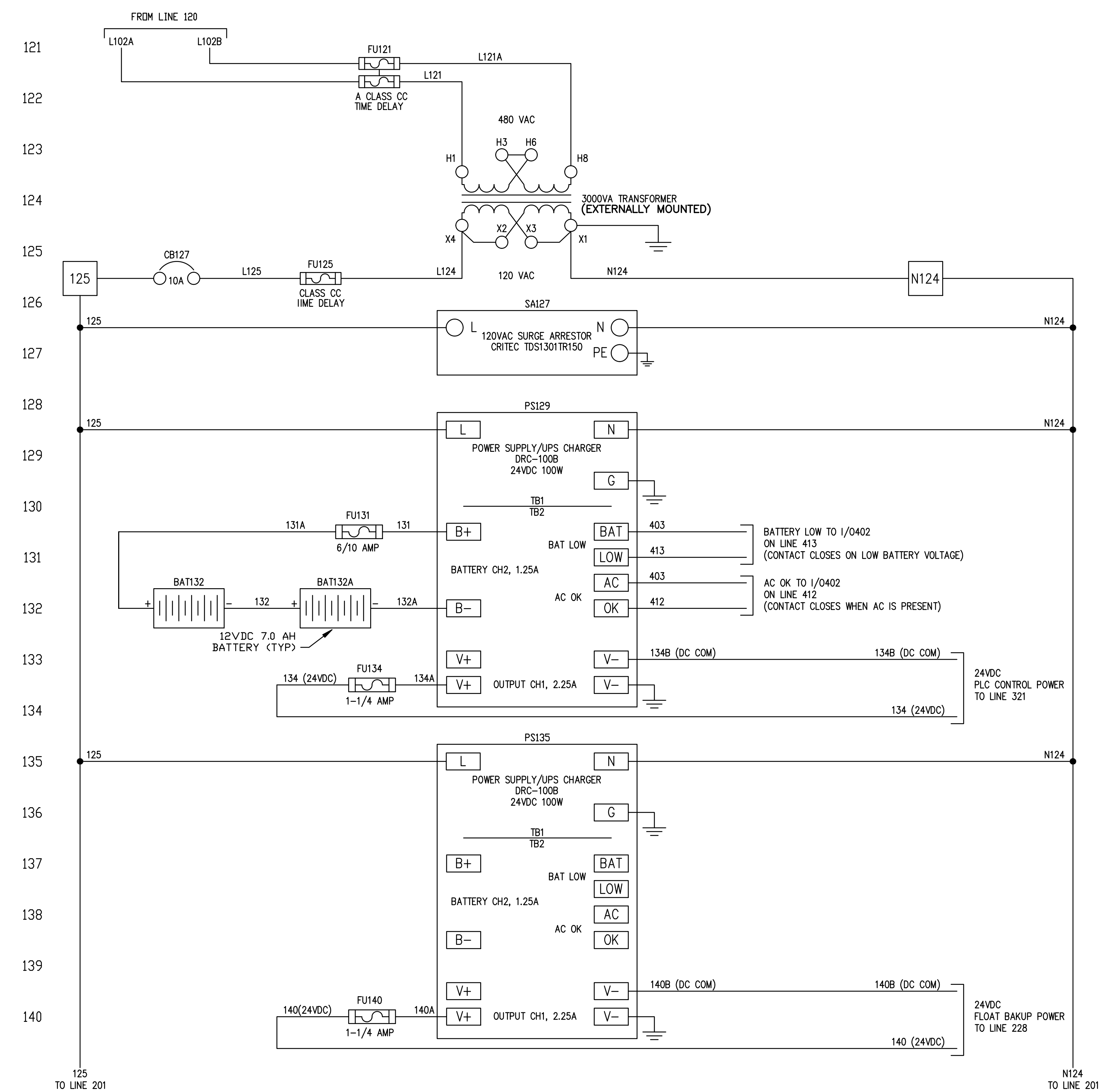
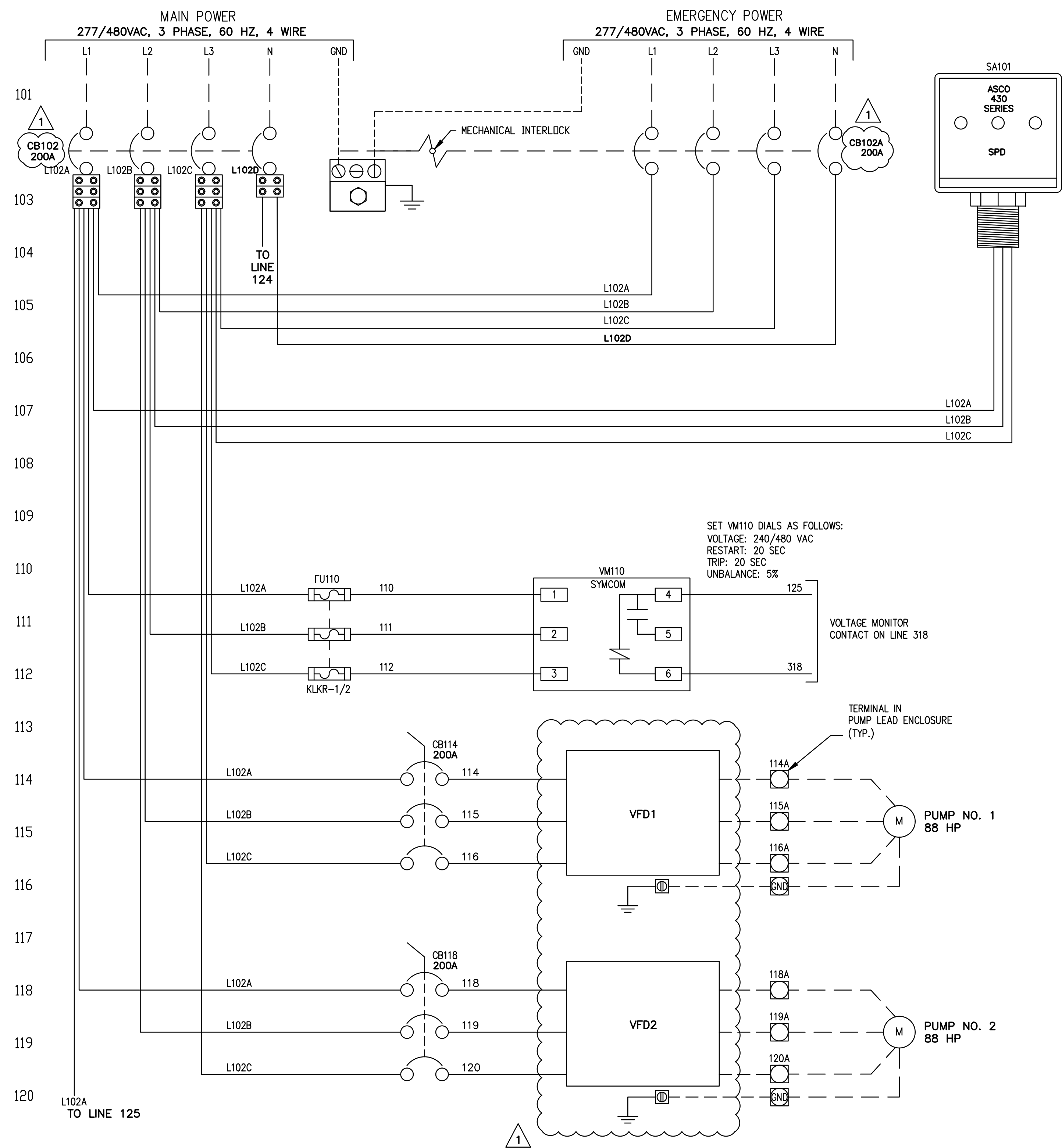
CONTROL PANEL COMPONENT  
 LAYOUT

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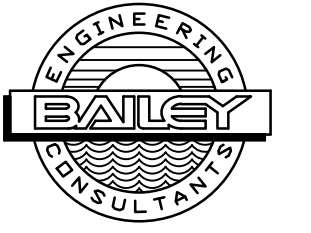
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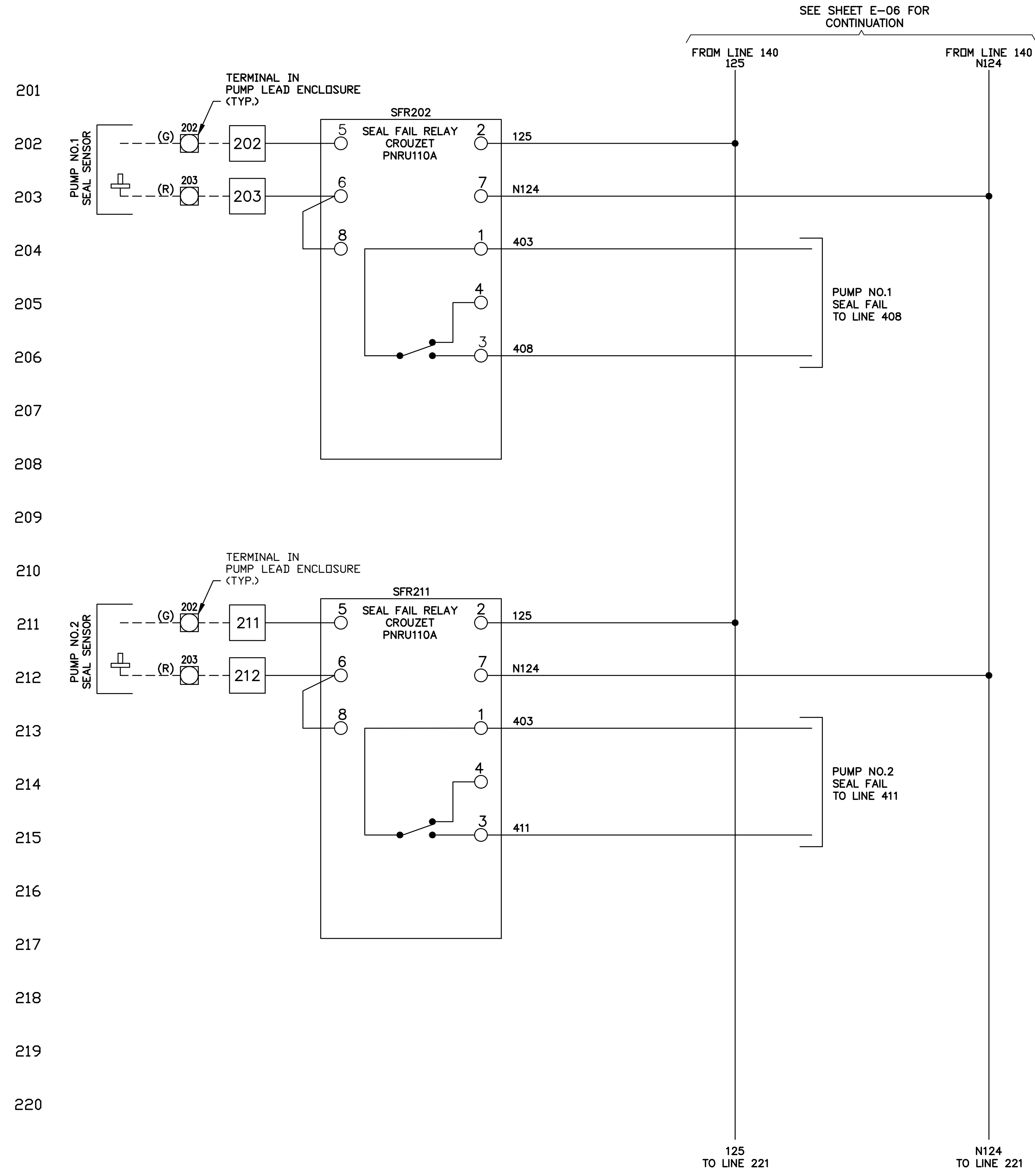
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**E-06**

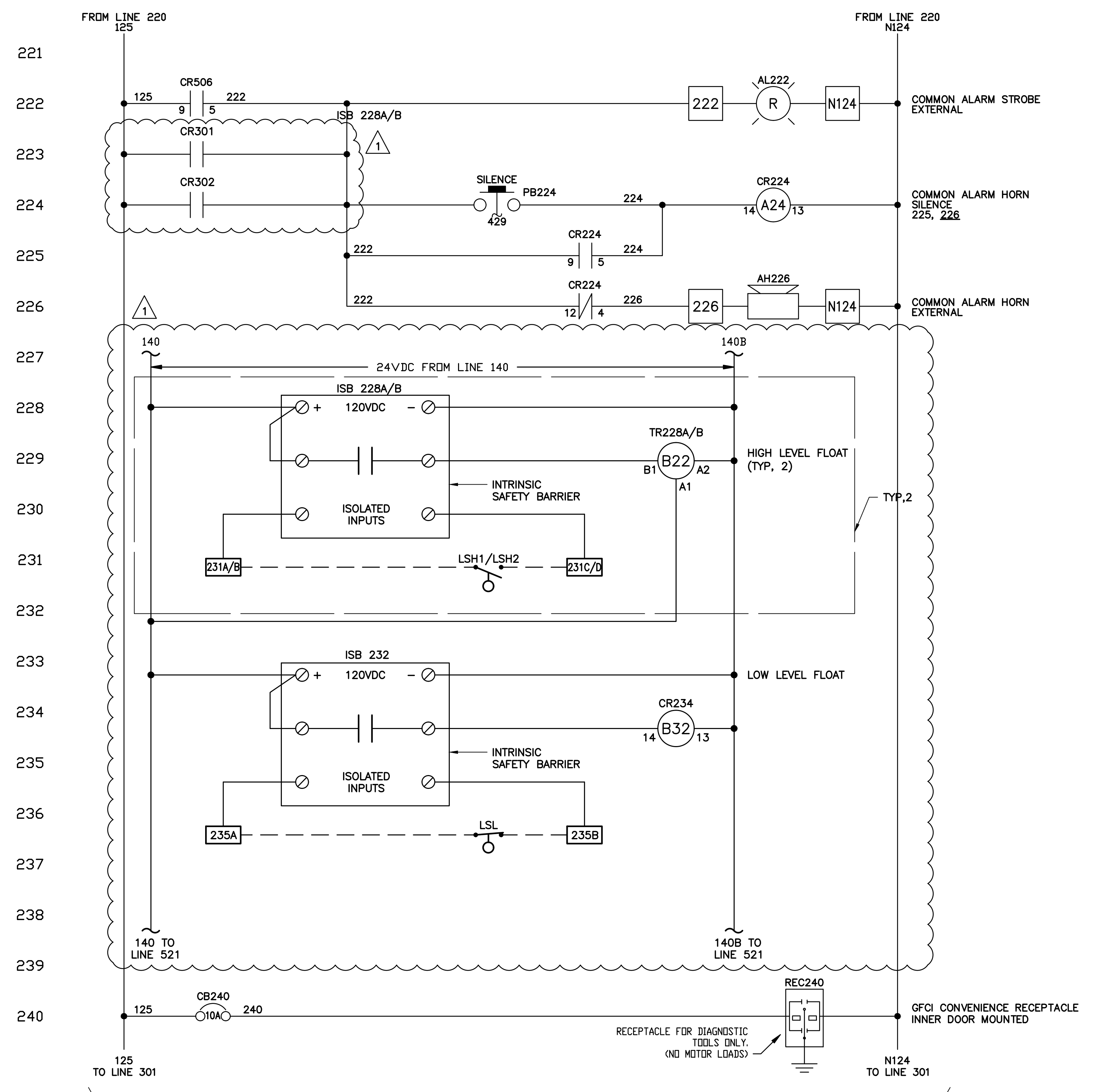
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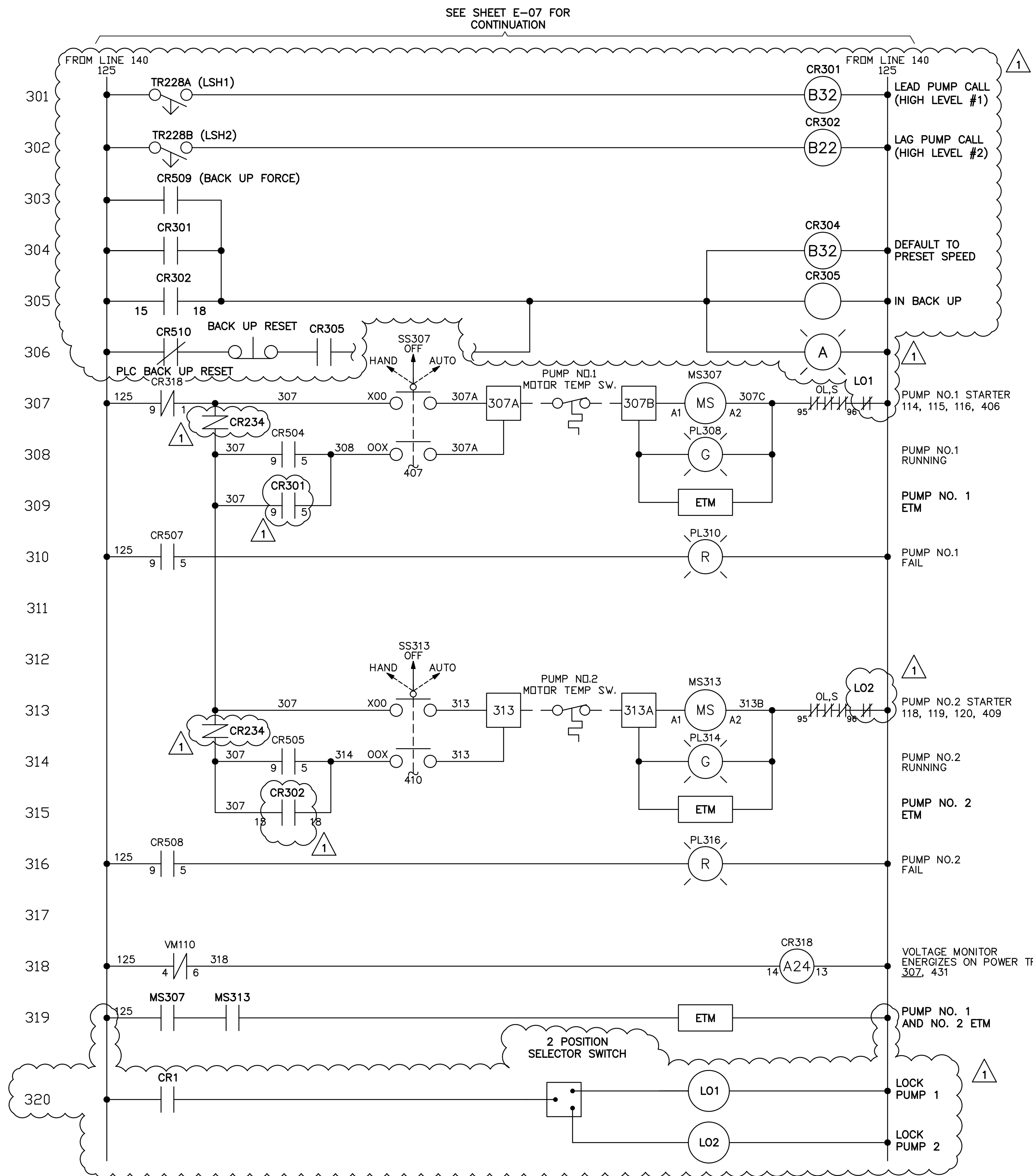
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 DIAGRAM - SHEET 2**

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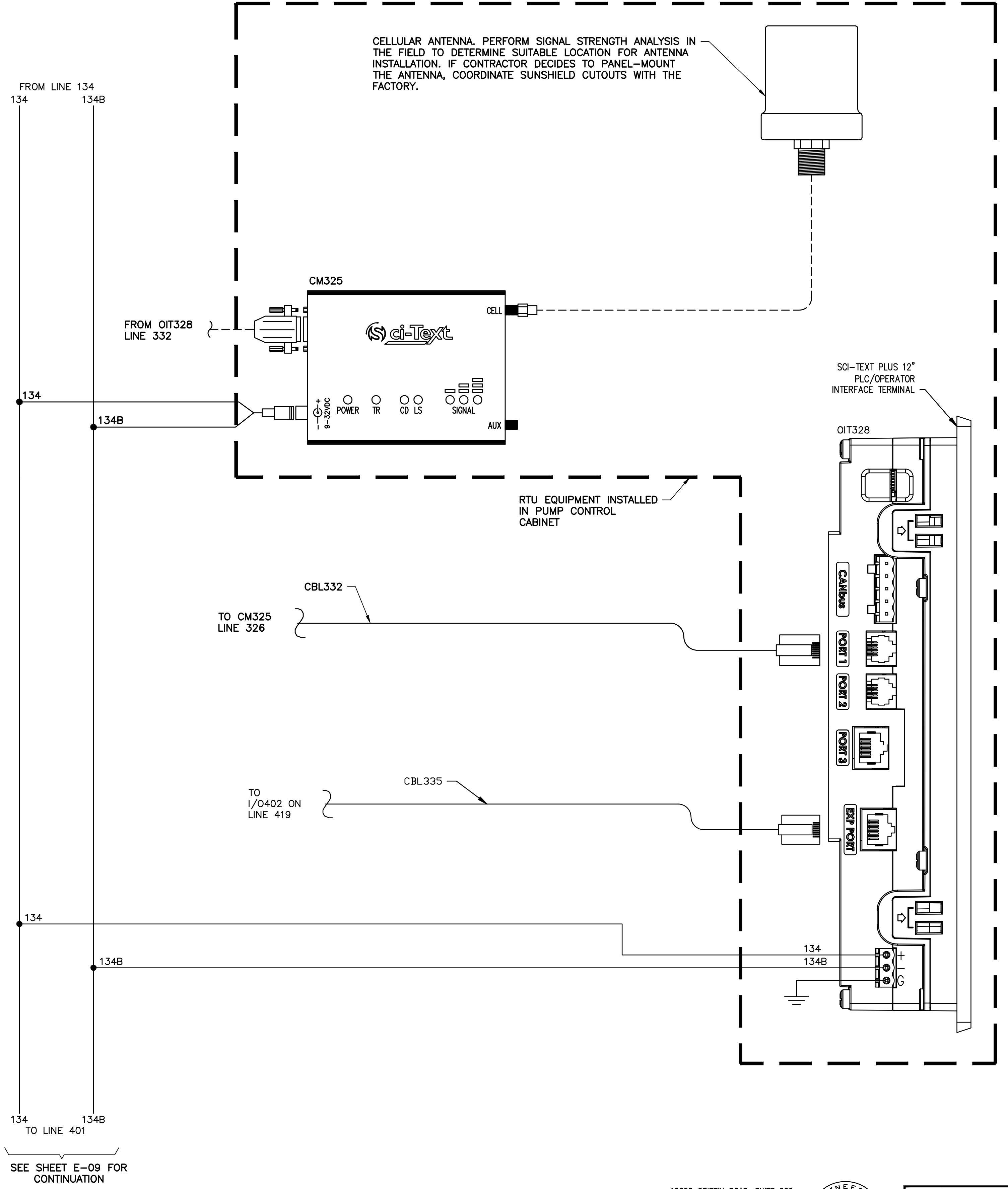
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SEE SHEET E-09 FOR CONTINUATION



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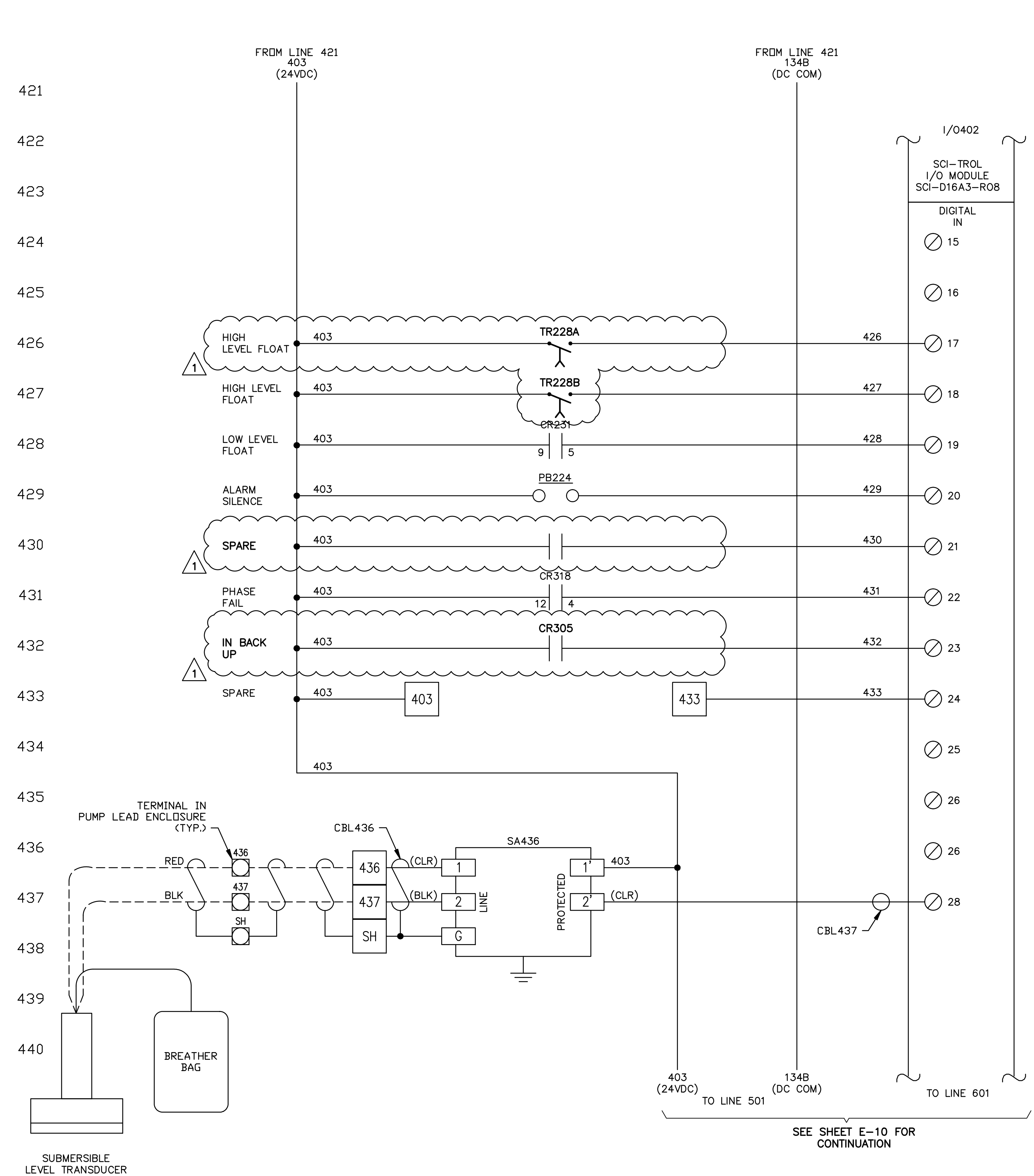
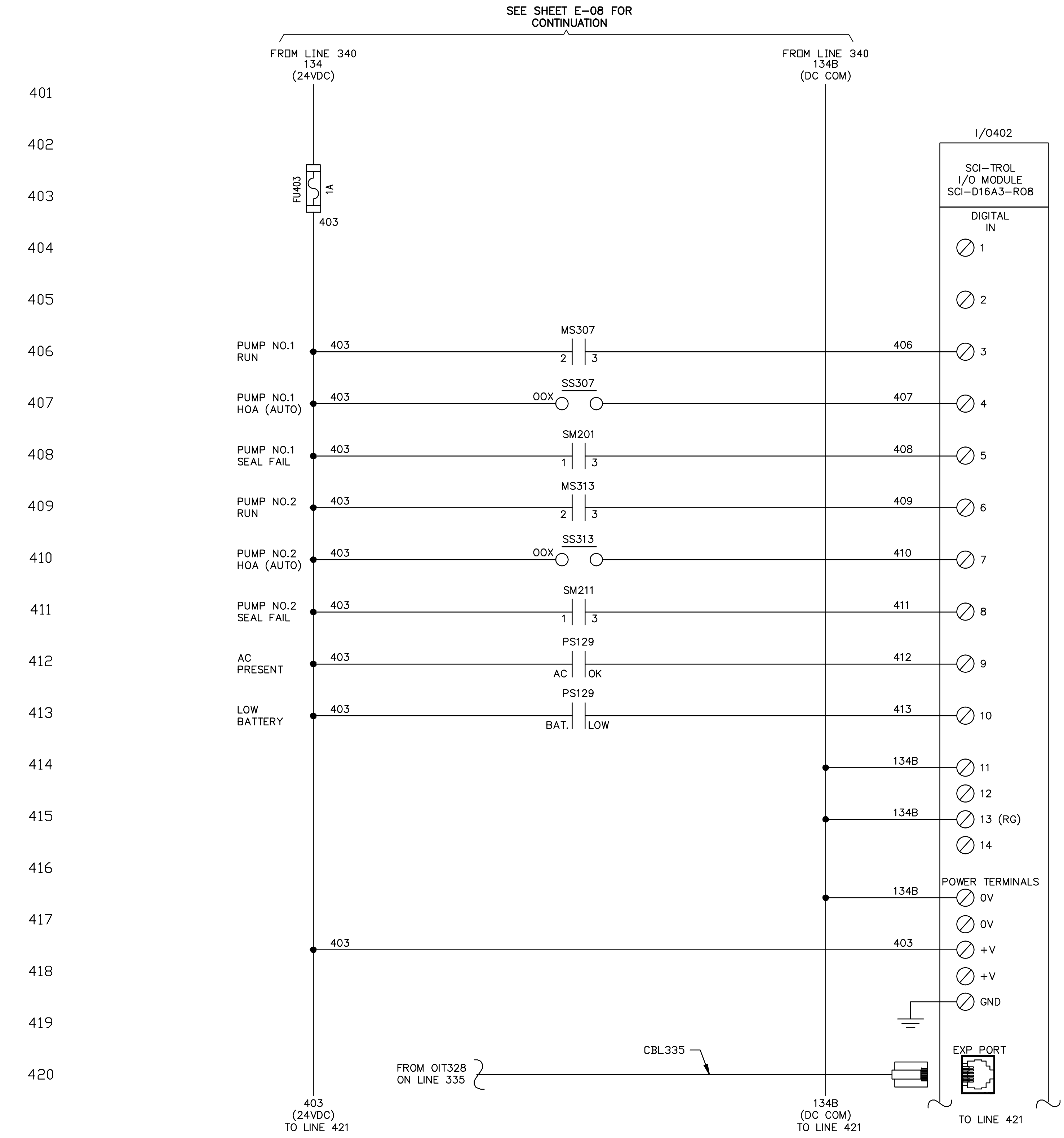
**CONTROL PANEL ELEMENTARY  
 DIAGRAM - SHEET 3**

SHEET NUMBER  
**E-08**

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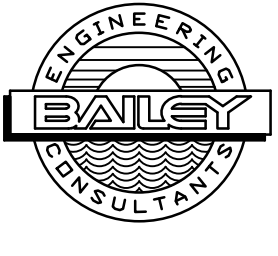
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**CONTROL PANEL ELEMENTARY  
 DIAGRAM - SHEET 4**

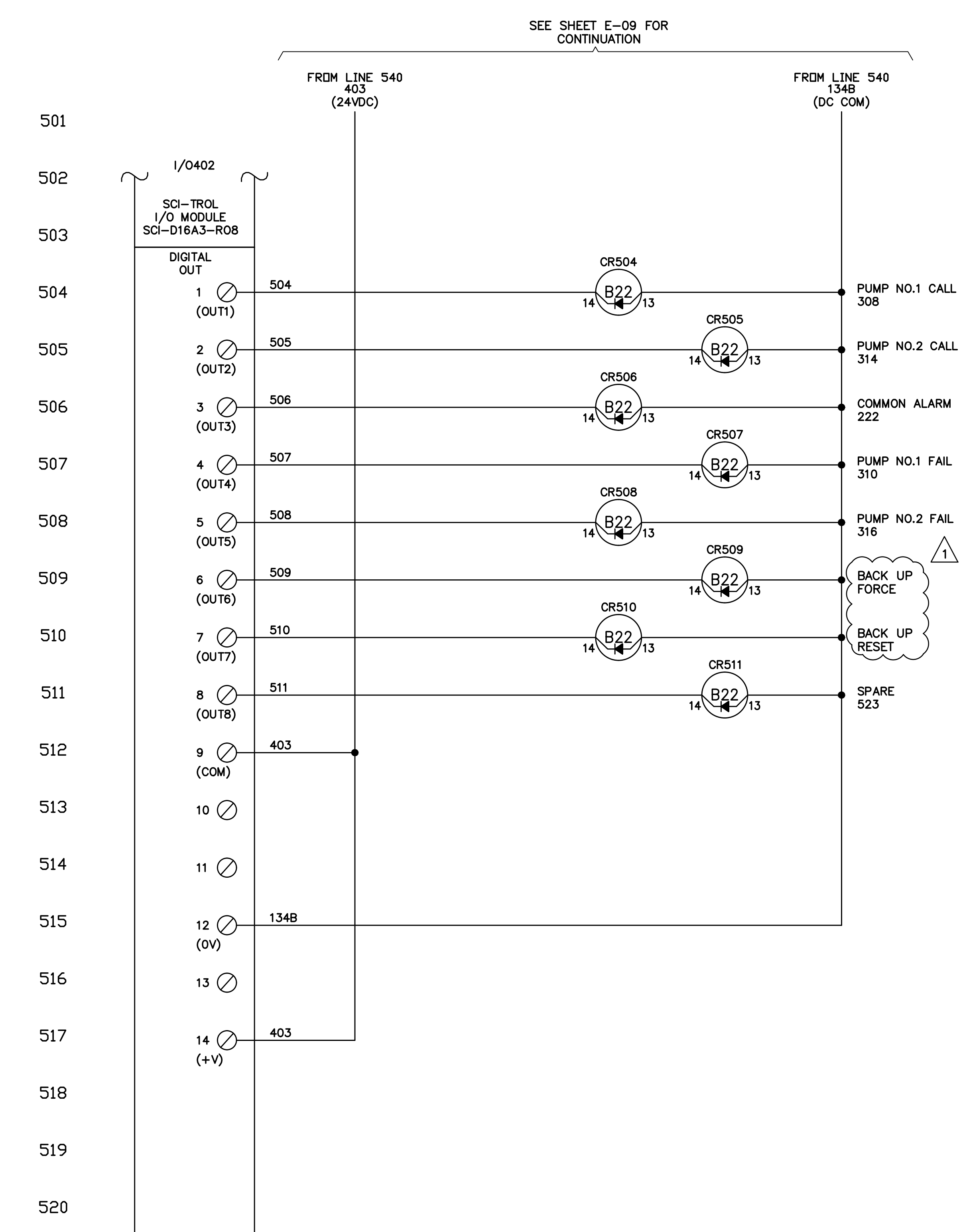
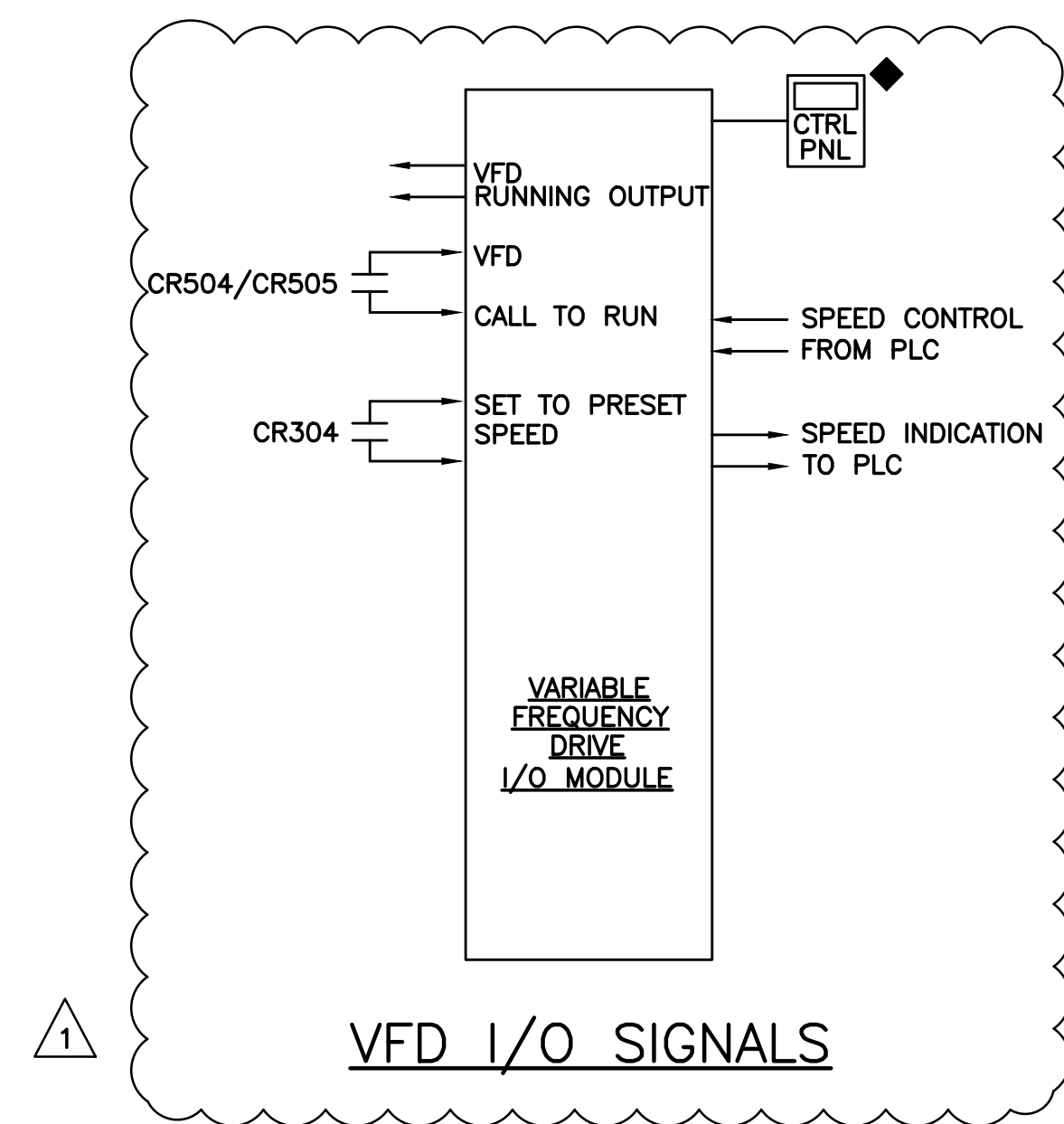
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**CONTROL PANEL ELEMENTARY  
DIAGRAM - SHEET 5**

SHEET NUMBER  
**E-10**

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**EQUIPMENT RACK – FRONT (NORTH ELEVATION)**  
NTS



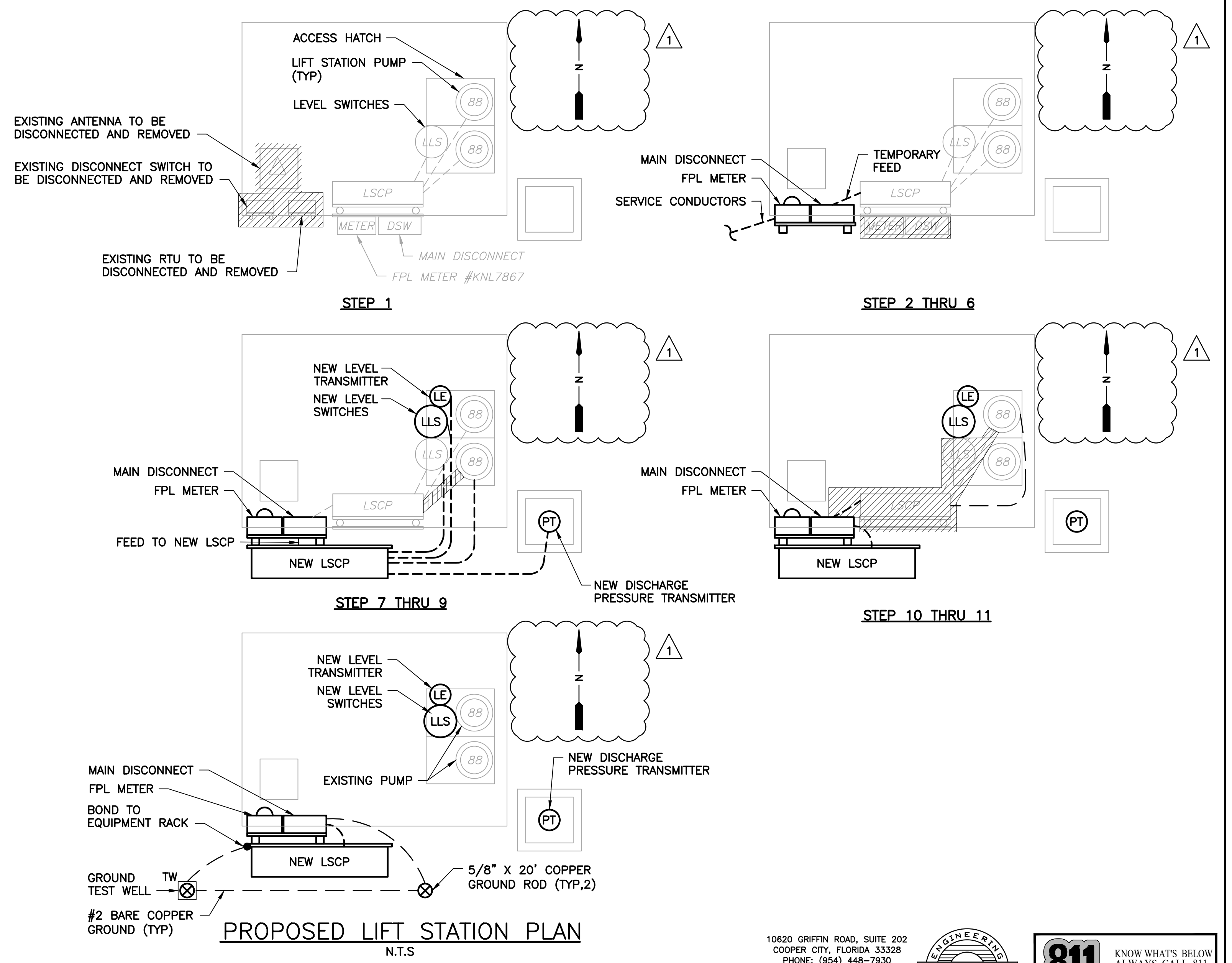
**EQUIPMENT RACK – REAR (SOUTH EAST ELEVATION)**  
NTS

**GENERAL NOTES:**

- A. EXISTING LIFT STATION SHALL REMAIN OPERATIONAL DURING THE DURATION OF THE WORK. PROVIDE STANDBY POWER, BYPASS PUMPING, AND TEMPORARY UTILITY POWER AS REQUIRED TO COMPLETE THE WORK.
- B. RECOMMENDED SEQUENCE OF CONSTRUCTION SHALL NOT BE CONSIDERED THE ONLY MEANS TO COMPLETE THE WORK. ULTIMATE RESPONSIBILITY TO COMPLETE THE WORK IS WITH THE CONTRACTOR. SUBMIT PLANNED SEQUENCE OF CONSTRUCTION TO ENGINEER PRIOR TO COMMENCING THE WORK.
- C. TRENCHING FOR NEW SERVICE CONDUCTORS SHALL BE HAND-DUG. SAW CUT PAVED AREAS, AS REQUIRED.
- D. VERIFY THAT EXISTING PUMP CABLE LENGTHS ARE OF SUFFICIENT LENGTH TO TERMINATE AT THE NEW LIFT STATION CONTROL PANEL, AND INCLUDE COST FOR INSTALLING LONGER CABLES IN THE BID, IF REQUIRED.
- E. CONTRACTOR SHALL FIELD VERIFY THE BEST ROUTE FOR NEW

**RECOMMENDED SEQUENCE OF CONSTRUCTION:**

1. DEMOLISH EXISTING RTU ANTENNA, DISCONNECT SWITCH, RTU PANEL, AND ALL ASSOCIATED MOUNTING HARDWARE. REMOVE ASSOCIATED CONDUCTORS BACK TO THE SOURCE. REMOVE ASSOCIATED RACEWAY AND PATCH ANY OPENINGS IN THE SLAB OR PAVEMENT CREATED AS A RESULT OF THIS WORK. KEEP EXISTING LIFT STATION CONTROL PANEL IN SERVICE WHILE PERFORMING THIS WORK.
2. INSTALL NEW EQUIPMENT RACK TO THE SOUTH OF EXISTING EQUIPMENT RACK, AS SHOWN. INSTALL AND WIRE NEW FPL METER AND MAIN DISCONNECT SWITCH.
3. INSTALL NEW SERVICE CONDUIT AND CONDUCTORS FROM EXISTING FPL PAD MOUNT TRANSFORMER TO NEW FPL METER.
4. ENERGIZE NEW EQUIPMENT.
5. PROVIDE TEMPORARY FEED FROM NEW MAIN DISCONNECT TO EXISTING LIFT STATION CONTROL PANEL.
6. REMOVE EXISTING MAIN DISCONNECT AND EXISTING FPL METER.
7. EXTEND NEW RACK AS REQUIRED TO ACCEPT NEW LIFT STATION CONTROL PANEL, AND INSTALL NEW CONTROL PANEL ON SOUTH SIDE OF NEW EQUIPMENT RACK. CONNECT TO NEW MAIN DISCONNECT AND ENERGIZE (EXISTING AND NEW PUMP CONTROL PANELS WILL BE SIMULTANEOUSLY SUPPLIED FROM NEW MAIN DISCONNECT SWITCH ON A TEMPORARY BASIS).
8. ROUTE NEW CONDUIT FROM WET WELL TO NEW CONTROL PANEL. INSTALL AND WIRE NEW LEVEL INSTRUMENTATION.
9. DISCONNECT FIRST PUMP FROM EXISTING LIFT STATION CONTROL PANEL, AND RECONNECT TO NEW CONTROL PANEL.
10. AFTER SUCCESSFUL SWITCH OVER OF THE FIRST PUMP, AND AFTER VERIFYING PROPER OPERATION OF THE CONTROLS SYSTEM, SWITCH OVER THE SECOND PUMP.
11. AFTER VERIFYING PROPER OPERATION OF THE SECOND PUMP, DEMOLISH EXISTING LIFT STATION CONTROL PANEL, INSTRUMENTATION, ASSOCIATED WIRING, RACEWAYS, 480V SERVICE, AND MOUNTING HARDWARE. PATCH ANY OPENINGS IN THE SLAB OR PAVEMENT CREATED AS A RESULT OF THIS WORK.



**PROPOSED LIFT STATION PLAN**  
N.T.S.

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PUMP STATION IMPROVEMENTS**

PREPARED FOR  
**NORTH BAY VILLAGE**

FLORIDA

LICENSED PROFESSIONAL	STEPHEN E. BAILEY, P.E.
FLORIDA LICENSE NUMBER	42461
DATE:	03/09/22

**PICTURES AND ANNOTATIONS**

SHEET NUMBER  
**E-11**