PANEL: MDP
LOCATION: ELECTRICAL CLOSET
FEEDER SOURCE: CLECO

VOLTAGE: 120/240V, 400 AMP, 1Φ, 3W
ENCLOSURE: SURFACE MOUNTED, NEMA 1 PANELBOARD
W/EQUIPMENT GND BAR, MLO, 22000 AIC

CKT. NO.	THHN. WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA) AΦ	LOAD (VA) BΦ	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN. WIRE SIZE	CKT. NO.
1	4/0	SUB-PANEL "PP" 200 AMPS	200	2	18,410	9,776	2	200	SUB-PANEL "LP" 200 AMPS	4/0	2
3					17,270	8,030					4
5	#6	MS-#1 ** 2 TON	50	2	3,444	104	2	15	MS-1A ** 3/4 TON	#12	6
7					3,444	104					8
9	#8	MS-#2 ** 1.6 TON	40	2	2,257	104	2	15	MS-1B ** 3/4 TON	#12	10
11					2,257	104					12
13	#6	HP-#1 ** 5 TON	50	2	3,120	104	2	15	MS-1C ** 3/4 TON	#12	14
15					3,120	104					16
17		AHU # 1 ** 5 TON, 7.5 KW HEAT	45	2	3,536	104	2	15	MS-2A ** 1.6 TON	-	18
19					3,536	104				#12	20
										-	
21	#12	AIRVAC EXHAUST REMOVAL #1	20	1	1,587	104	2	15	MS-2B ** 1.6 TON	#12	22
23	#12	AIRVAC EXHAUST REMOVAL #2	20	1	1,587	104					24
25	#12	AIRVAC EXHAUST REMOVAL #3	20	1	1,587	828	2	15	EXHAUST FAN #7 MAINTENANCE BAY ¾ HP MOTOR	#8	26
27	#12	AIRVAC EXHAUST REMOVAL #4	20	1	1,587	828					28
29	#12	ACCUREX FIRE READY RANGE HOOD	20	1	1,500	2,760	2	30	SANITARY SEWER LIFT STATION **	#10	30
31		SPARE	20	1	805	2,760					32
33		SPARE	20	1	180	-	1	20	SPARE		34
35	-	SPACE	-	1	-	1,150	1	15	LAUNDRY GAS DRYER LOCATED IN UTILITY ROOM 118	#12	36
37	-	SPACE	-	1	-	1,000	1	20	WASHING MACHINE UTILITY ROOM 118	#12	38
39	#6	JUNCTION BOX FOR RANGE LOCATED IN KITCHEN 108	50	2	4,800	1,000	1	20	GEAR WASHING MACHINE APPARATUS BAY	#12	40
41					4,800	-	1	-	SPACE	-	42

SOLID NEUTRAL
NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (VA) = 97,143
AΦ = 49,877 BΦ = 47,266

GROUND BUS
GROUND WIRE (G)

NOTE: ** - INSTALL BREAKER TO MATCH UNIT THAT IS INSTALLED BY MECHANICAL CONTRACTOR.

PANEL: PP
LOCATION: ELECTRICAL CLOSET
FEEDER SOURCE: MDP PANEL

VOLTAGE: 120/240V, 200 AMP, 1Φ, 3W
ENCLOSURE: SURFACE MOUNTED, NEMA 1 PANELBOARD
W/EQUIPMENT GND BAR, MLO, 22000 AIC

CKT. NO.	THHN. WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA) AΦ	LOAD (VA) BΦ	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN. WIRE SIZE	CKT. NO.
1	#12	IGNITER FOR AEROTHERMES GAS HEATER LOCATED IN CORNER OF APPARATUS BAY	20	1	560	-	1	20	SPARE	#12	2
3	#12	ENTRY 101, DAYROOM 102, CAPTAIN 103, & WOMENS TOILET 104 RECEPTACLES	20	1	1440	1260	1	20	RECEPTACLES FOR DAYROOM 102 & WP GFIC,	#12	4
5	#12	I.T. ROOM 105 DEDICATED RECEPTACLE	20	1	180	1440	1	20	I.T. ROOM 105 QUAD RECEPTACLES	#12	6
7	#12	I.T. ROOM 105 DEDICATED RECEPTACLE	20	1	180	180	1	20	I.T. ROOM 105 DEDICATED RECEPTACLE	#12	8
9	#12	ANTE ROOM 106, CAPTAIN 107, BUNKROOM 113, & MENS TOILET 114 RECEPTACLES	20	1	1260	1100	1	20	KITCHEN 108 DEDICATED REFRIGERATOR RECEPTACLE	#12	10
11	#12	KITCHEN 108 DEDICATED REFRIGERATOR RECEPTACLE	20	1	1100	1100	1	20	KITCHEN 108 DEDICATED REFRIGERATOR RECEPTACLE	#12	12
13	#12	KITCHEN 108 COUNTER-HT. RECEPTACLES	20	1	1080	1440	1	20	KITCHEN 108 COUNTER-HT., & USB QUAD RECEPTACLES	#12	14
15	#12	KITCHEN 108 DEDICATED RECEPTACLE FOR DISHWASHER	20	1	1440	760	1	20	KITCHEN 108 DEDICATED RECEPTACLE FOR GARBAGE DISPOSAL	#12	16
17	#12	DINING ROOM 109 & BUNKROOM 113 USB QUAD WALL RECEPTACLES & AHU PLATFORM	20	1	1440	1260	1	20	BUNKROOM 113 USB QUAD & COUNTER RECEPTACLES	#12	18
19	#12	ICE MACHINE LOCATED IN UTILITY ROOM 118	20	1	1200	900	1	20	JUNCTION BOX (& 2-WAY SWITCH) FOR ROLLUP DOOR IN APPARATUS BAY 117	#12	20
21	#12	JUNCTION BOX (& 2-WAY SWITCH) FOR ROLLUP DOOR IN APPARATUS BAY 117	20	1	900	1080	1	20 GFCI	RECEPTACLES FOR APPARATUS BAY 117, REST-ROOM 119, AHU, & MAINTENANCE BAY 121	#12	22
23	-	SPARE	20	1	-	900	1	20	JUNCTION BOX (& 2-WAY SWITCH) FOR ROLLUP DOOR IN MAINTENANCE BAY 121	#12	24
25	#12	JUNCTION BOX (& 2-WAY SWITCH) FOR ROLLUP DOOR IN MAINTENANCE BAY 121	20	1	900	180	1	20	DEDICATED WEATHER-PROOF RECEPTACLE FOR GENERATOR (BLOCK HEATER)	#12	26
27	#12	DEDICATED RECEPTACLE IN MECH/ELEC ROOM 123	20	1	180	1250	2	20	ELECTRIC SPACE HEATER LOCATED IN ATTIC	#12	28
29	#12	GENERATOR BATTERY CHARGER	20	1	340	1250					30
31	#12	EXTERIOR WEATHER PROOF GFIC RECEPTACLES FOR LIGHTS	20	1	900	900	1	20	EXTERIOR WEATHER PROOF GFIC RECEPTACLES FOR IRRIGATION AND CONDENSOR MAINTENANCE	#12	32
33	#12	GAS HOT WATER HEATER IGNITOR(S)	20	1	1800	1080	1	20 GFCI	RECEPTACLES FOR APPARATUS BAY 117	#12	34
35	-	SPARE	20	1	-	1080	1	20 GFCI	RECEPTACLES FOR APPARATUS BAY 117, & MAINTENANCE BAY 121	#12	36
37	#12	KUSSMAUL AUTO-EJECT SYSTEM	20	1	1200	1200	1	20	KUSSMAUL AUTO-EJECT SYSTEM	#12	38
39	#12	ELECTRIC SPACE HEATER LOCATED IN ATTIC	20	2	1250	1250	2	20	ELECTRIC SPACE HEATER LOCATED IN ATTIC	#12	40
41					1250	1250					42

SOLID NEUTRAL
NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (VA) = 35,680
AΦ = 18,410 BΦ = 17,270

GROUND BUS
GROUND WIRE (G)

PANEL: LP
LOCATION: ELECTRICAL CLOSET
FEEDER SOURCE: MDP PANEL

VOLTAGE: 120/240V, 200 AMP, 1Φ, 3W
ENCLOSURE: SURFACE MOUNTED, NEMA 1 PANELBOARD
W/EQUIPMENT GND BAR, MLO, 22000 AIC

CKT. NO.	THHN. WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA) AΦ	LOAD (VA) BΦ	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN. WIRE SIZE	CKT. NO.
1	#12	LIGHTS IN ENTRY 101 & DAYRM 102, UTILITY RM 118, STORAGE RM 120	20	1	476	1386	1	20	LIGHTS IN DAYRM 102, DINING RM 109, ATTIC FOR AHU'S, PANTRIES 110, 111, 112& BUNK 113	#12	2
3	#12	CEILING FANS IN DAYROOM 102 AND ON EXTERIOR REAR PATIO	20	1	855	1087	1	20	LIGHTS IN CAPT RM 103, MEN & WOMEN TOILET, ANTE ROOM 106, & CAPT ROOM 107 & IT CLOSET	#12	4
5	#12	LIGHTS IN APPARATUS BAY 117	20	1	1752	1752	1	20	LIGHTS IN KITCHEN	#12	6
7	#12	RESTRM 119 LIGHTS, FAN AND HEATER	20	1	1750	732	1	20	LIGHTS GEAR RM 122, MECH RM 123, & STORAGE 2 RM 124	#12	8
9	#12	DOUBLE JUNCTION BOXES FOR SIGNS ON BLDG. ABOVE APPARATUS BAY DOORS	20	1	1800	1,200	1	20	WEST AND SOUTH EXTERIOR WALL-PACK LED LIGHTS, PROVIDE PHOTOCELL	#12	10
11	#12	EXIT AND EMERGENCY LIGHTS	20	1	320	526	1	20	FRNT EXTERIOR WALL-MOUNTED LIGHTS, FRNT PORCH/ALCOVE LIGHT & FLAGPOLE LIGHTS, PROVIDE PHOTOCELL	#12	12
13	#8	EXTERIOR PARKING LIGHTS	20	1	450	960	1	15	BIG ASS FAN IN APPARATUS BAY, RM 117	#12	14
15	#12	HVAC SMOKE DAMPERS	20	1	1800	960					16
17	#12	SPARE	20	1	-	-	1	20	SPARE	#12	18
19	#12	SPARE	20	1	-	-	1	20	SPARE	#12	20
21	#12	SPARE	20	1		-	1	20	SPARE	#12	22
23	#12	SPARE	20	1	-	-	1	20	SPARE	#12	24

SOLID NEUTRAL
NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (VA) = 17,806
AΦ = 9,776 BΦ = 8,030

GROUND BUS
GROUND WIRE (G)

CLECO Power Company Electrical Load Summary

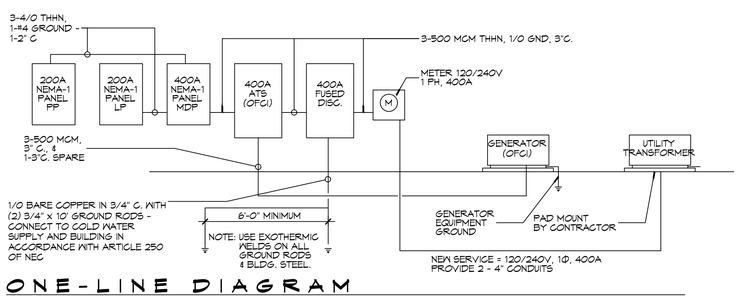
Project Name: FIRESTATION #10
Project Address: LAKESHORE VISTA BLVD
City / Town: SLIDELL, LOUISIANA

Intended Use: Firestation
Requested Service: 120/240 Volts 1Φ Phase 3 Wires
Service Entrance Size: 400 Amps
HVAC Tonnage: 9 Tons
Largest Motor: N/A HP
Total Building Square Footage: 6,526 Square Feet
Living Unit Square Footage: 2,624 Square Feet
Storage Square Footage: 3,902 Square Feet

LOAD SOURCE	1Φ-kva	3Φ-kva
Building Lighting	14.0	-
Electric Water Heating	-	-
Heat Pumps	17.6	-
Supplemental Heat System	7.5	-
Air Conditioning Condensing Units	-	-
Electrical Heating (Primary) - AHUs	7.1	-
Cooking	9.6	-
Refrigeration	3.3	-
Receptacles (Standard)	20.7	-
Receptacles (Computer)	2.0	-
Total Motors (Exclude HVAC)	9.7	-
Exterior Lighting	0.7	-
Miscellaneous - Ceiling Fans	2.2	-
Other (OVERHEAD ROLL-UP DOORS)	3.6	-

GENERAL PANEL NOTES

1. ELECTRICAL CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS, PRIOR TO SUBMISSION OF BID. ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND BE INCLUDED IN FINAL BID.
2. COORDINATE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES.
3. INSTALL "LOCK-DOGS" ON CIRCUIT BREAKERS FOR EMERGENCY LIGHTS AND EXIT LIGHTS TO PREVENT ACCIDENTAL TURNING OF LIGHTS.
4. SEE ARCHITECTURAL SHEETS FOR LOCATION OF FIRE RATED CONSTRUCTION. PROVIDE FIRE RATED PENETRATIONS THROUGH FIRE RATED CONSTRUCTION. ALL PENETRATION SYSTEMS SHALL BE UL LISTED.
5. WALL MOUNTED THERMOSTAT, TEMPERATURE SENSOR, ETC. ARE SHOWN ON THE MECHANICAL DRAWINGS. REFER TO THOSE DRAWINGS FOR LOCATIONS.
6. PROVIDE UL LISTED FIRE STOPPING FOR THE INTERIOR OF ALL CABLE TRAYS, SLEEVES, AND CONDUITS PENETRATING FIRE RATED CONSTRUCTION AFTER WIRE HAS BEEN INSTALLED IN SUCH CONSTRUCTION.
7. CONDUIT ROUTING: ALL CONDUITS SHALL BE ROUTED IN WALLS AND CEILING SPACE EXCEPT TO SERVE FLOOR BOXES.
8. METER LOCATION: THE HEIGHT OF THE METER SHALL BE BETWEEN 48" AND 66" AFF.
9. WORKING SPACE: PROVIDE A CLEAR WORKING SPACE IN FRONT OF THE PANEL NOT LESS THAN 30 INCHES WIDE AND 36 INCHES DEEP WITH A MINIMUM HEADROOM CLEARANCE OF 6'-6".
10. SEAL ALL PENETRATIONS IN TOP PLATES AND STUD WALLS WITH FIRE CAULK.



1 ONE-LINE DIAGRAM
SCALE: NTS

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Slidell, LA 70458

#	DESCRIPTION	DATE
	REVISIONS	

SEAL:
STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

NEW FIRE STATION #10
ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
2145 LAKESHORE VISTA BLVD
SLIDELL, LA 70461

JOB No:	2519
DATE:	12-03-2025
DRAWN BY:	CCD
CHECKED BY:	BAM

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SHEET TITLE:
ELECTRICAL CIRCUIT PANELS AND ONE-LINE DIAGRAMS

DRAWING NUMBER:
E103

SHEET No: 37 of 37