

LIGHT FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG #	DESCRIPTION	VOLTS	WATTS	MOUNTING	REMARKS		
A1	EATON	24SR-LD2-39-C-UNV-L850-CD1-U	2 X 4 LED RECESSED FIXTURE	120	31.9	LAY-IN GRID	ACRYLIC LENS		
A1E	EATON	24SR-LD2-39-C-UNV-EL14W-L850-CD1-RH-U	2 X 4 LED RECESSED EMERGENCY FIXTURE	120	31.9	LAY-IN GRID	ACRYLIC LENS (NOTE 2)		
EM3	LITHONIA	ELA LED TWP M12	EMERGENCY LIGHT	9.6	1	CEILING / WALL	REMOTE EMERGENCY FIXTURE		
GG	US LED	DS-402U-2-UNV-QB3-NC-1L	LED WALL PACK	120	42.5	WALL	WALL PACK		
JB	LITHONIA	JEBL 18L 50K 80CRI WH	JP65 RATED LED HIGH BAY	120	136	SURFACE	MOUNT TO BOTTOM OF STRUCTURE		
T4	EATON	4SNLED-LD5-64HL-UNV-L850-CD1-L-LOV-U	4' LINEAR LED STRIP LIGHT - HIGH OUTPUT	120	43	SURFACE	MOUNT TO BOTTOM OF STRUCTURE		
T4E	EATON	4SNLED-LD5-64HL-UNV-L850-CD1-EL14W-LOV-U	4' LINEAR LED STRIP LIGHT - EMERGENCY	120	43	SURFACE	MOUNT TO BOTTOM OF STRUCTURE (NOTE 2)		
T8	EATON	8SNLED-LD5-64HL-UNV-L850-CD1-L-LOV-U	8' LINEAR LED STRIP LIGHT - HIGH OUTPUT	120	124	SURFACE	MOUNT TO BOTTOM OF STRUCTURE		
T8E	EATON	8SNLED-LD5-64HL-UNV-L850-CD1-EL14W-LOV-U	8' LINEAR LED STRIP LIGHT - EMERGENCY	120	124	SURFACE	MOUNT TO BOTTOM OF STRUCTURE (NOTE 2)		
TD	COOPER	PDR7733326-4VT3-LD5-4-WPC-UNV-L850-CD1-S W/ VT3-SS-SBK	VAPORTIGHT LED FIXTURE / MOUNTING BRACKET	120	31	SURFACE	USE CEILING MOUNT BRACKET		
TDE	COOPER	PDR7733326-4VT3-LD5-4-WPC-UNV-EL10W-L850 W/ VT3-SS-SBK	EMERGENCY VAPORTIGHT LED FIXTURE / MOUNTING BRACKET	120	31	SURFACE	USE CEILING MOUNT BRACKET (NOTE 2)		
X	LITHONIA	LHQM LED R HO M6	EXIT / EMERGENCY LIGHT	120	5	CEILING / WALL	EMERGENCY FIXTURE WITH 90 MINUTE BATTERY BACKUP		

- LIGHTING FIXTURE SCHEDULE GENERAL NOTES:**
- LIGHT FIXTURES TO BE PROVIDED BY OWNER, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
 - PROVIDE ARROWS AND FACES AS INDICATED ON THE DRAWINGS.
 - ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIXTURE LOCATIONS WITH ARCHITECTURAL ELEVATIONS.
 - ELECTRICAL CONTRACTOR SHALL INSTALL ALL CEILING MOUNTED LIGHTING FIXTURES IN LOCATIONS AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLAN.
 - GENERAL CONTRACTOR SHALL PROVIDE FIREPROOFING AROUND RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING PER U.L. REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL COORDINATE.
 - ALL LIGHT FIXTURES SHALL BE SECURED TO THE CEILING FRAMING SYSTEM BY MECHANICAL MEANS (SUCH AS BOLTS, SCREWS, OR RIVETS) OR BY CLIPS IDENTIFIED FOR USE WITH THE TYPE OF CEILING, FRAMING MEMBER, AND LIGHT FIXTURE.
 - EMERGENCY LIGHTS SHALL HUG CEILINGS. IN NON-CEILING STORAGE ROOMS, LOCATE BOTTOM OF FIXTURES AT 12'-0" AFF.
- LIGHTING FIXTURE SCHEDULE KEYNOTES:**
- PROVIDE DRYWALL FRAME KIT.
 - EMERGENCY FIXTURE WITH EMERGENCY BATTERY.

PANELBOARD NOTES ()

- TERMINATE GROUND ON ISOLATED GROUND BUS.
- INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE). LOCKING DEVICE SHALL BE UL LISTED.
- INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
- GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).
- GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).
- CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC.
- ROUTE CIRCUIT THROUGH CONTACTOR
- PROVIDE INTERLOCK WIRING WITH EXHAUST HOOD ANSUL SYSTEM.
- PROVIDE LISTED HANDLE-TIE BETWEEN CIRCUIT BREAKERS SHARING COMMON NEUTRAL FOR SIMULTANEOUS TRIP.
- REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
- CONDUCTOR SIZE HAS BEEN INCREASED FOR ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY. E.C. SHALL ADJUST CONDUCTOR SIZES AS NECESSARY.
- ROUTE CIRCUIT THROUGH LUBE PIT CONTROL RELAY.

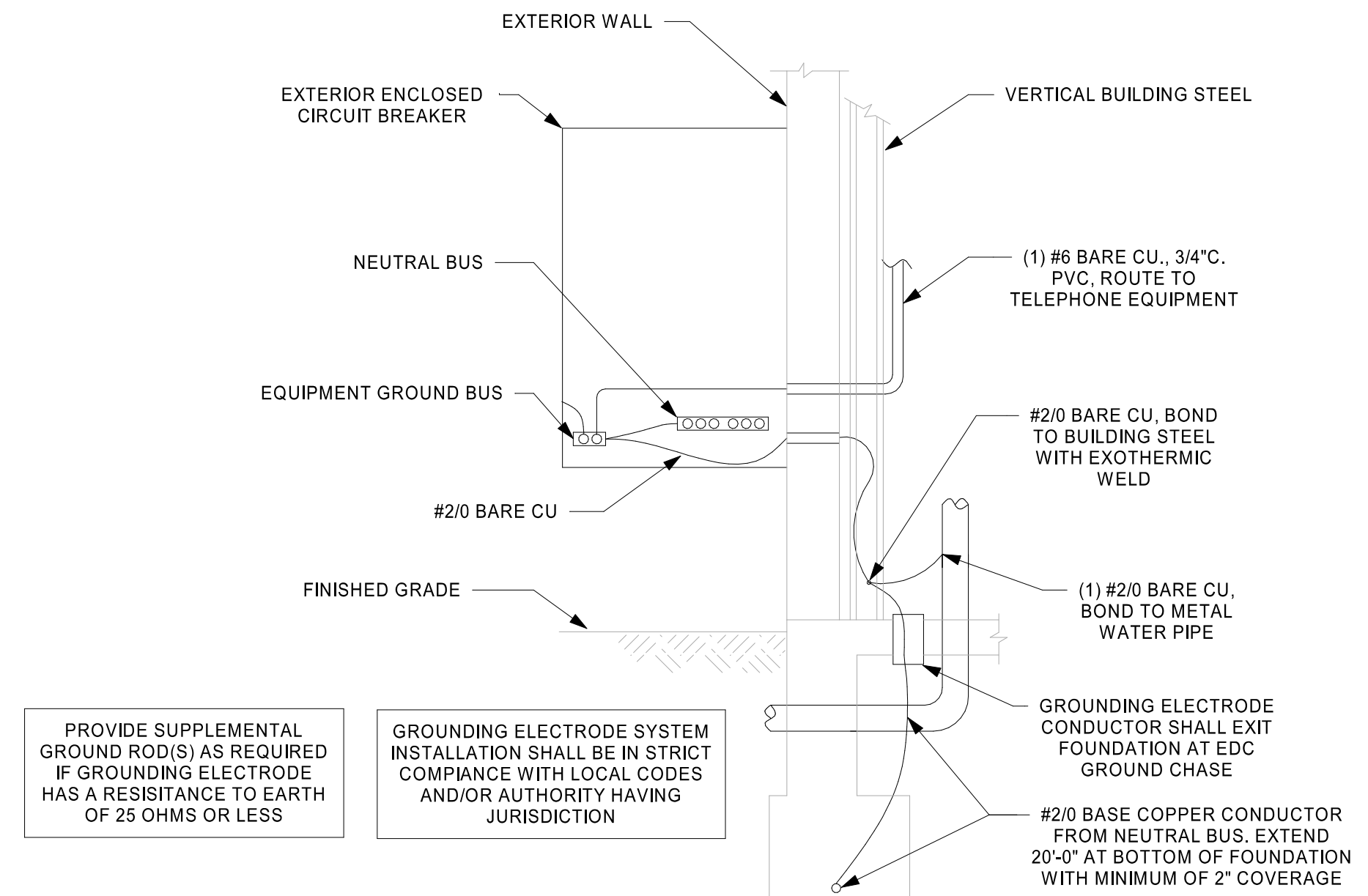
ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIAL PRODUCED PERMANENT LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS. IN ACCORDANCE WITH NEC 110.16 NFPA 70E. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

LT **PANELBOARD** 208Y/120V, 3PH, 4W 600 A MLO
 LOCATION: MEZZANINE (22K) AIC, SERIES RATED SURFACE, NEMA 1
 SUPPLY FROM: EXTERIOR DISCONNECT
 UPSTREAM OCPD: 600 A
 SERVES: TIRE SHOP
 ISOLATED GROUND BUS

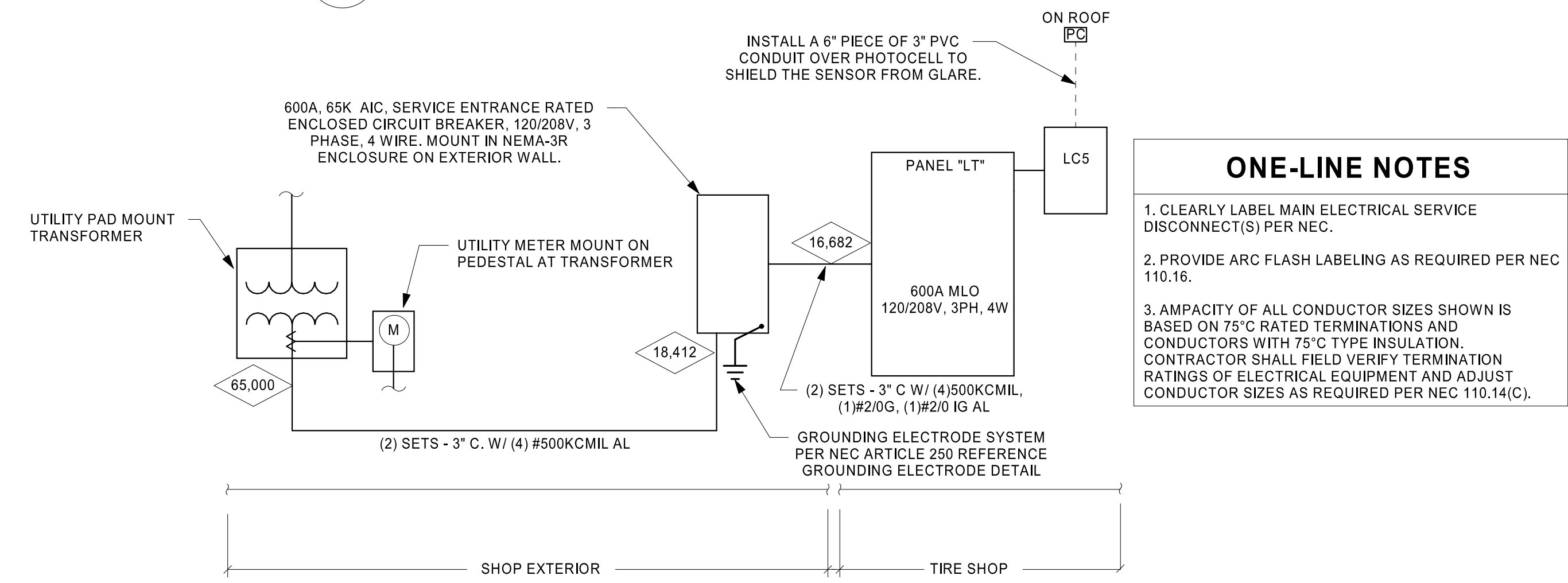
CKT	Circuit Description	Wire	Trip	Poles	A	B	C	Poles	Trip	Wire	Circuit Description	CKT	
1	AIR COMPRESSOR	3 90 A	3	5.54	0.56			2	20 A	12	ADO-1	2	
3		-- -- --	--	--	--	5.54	0.56		--	--	--	4	
5		-- -- --	--	--	--		5.54	0.56	2	20 A	12	ADO-2	6
7	TIRE BALANCER	10 30 A	3	1.60	0.56				--	--	--	8	
9		-- -- --	--	--	--	1.60	0.56		2	20 A	12	ADO-3	10
11		-- -- --	--	--	--		1.60	0.56	--	--	--	12	
13	WELDER	6 50 A	2	1.68	0.56			2	20 A	12	ADO-4	14	
15		-- -- --	--	--	--	1.68	0.56		--	--	--	16	
17	WELDER	6 50 A	2				1.68	0.56	2	20 A	12	ADO-5	18
19		-- -- --	--	--	--	1.68	0.56		--	--	--	20	
21	WELDER	6 50 A	2				1.68	0.56	2	20 A	12	ADO-6	22
23		-- -- --	--	--	--		1.68	0.56	--	--	--	24	
25	WELDER	6 50 A	2	1.68	0.56			2	20 A	12	ADO-7	26	
27		-- -- --	--	--	--	1.68	0.56		--	--	--	28	
29	WELDER	6 50 A	2				1.68	0.56	2	20 A	12	ADO-8	30
31		-- -- --	--	--	--	1.68	0.56		--	--	--	32	
33	TRAINING TRAILER	6 50 A	2			4.00	0.56		2	20 A	12	ADO-9	34
35		-- -- --	--	--	--		4.00	0.56	--	--	--	36	
37	SPACE	-- 1	--	0.56				2	20 A	12	ADO-10	38	
39	SPACE	-- 1	--	0.56				--	--	--	--	40	
41	SPACE	-- 1	--					1	--	--	SPACE	42	
43	AHU-1	6 50 A	2	4.99	1.33			3	20 A	12	DWH-1	44	
45		-- -- --	--	--	--	4.99	1.33		--	--	--	46	
47	HP-1	10 25 A	2				1.56	1.33	--	--	--	48	
49		-- -- --	--	--	--	1.56	0.40		1	20 A	12	EF-1	50
51	EW-1 (2)	12 20 A	2			0.56	0.40		1	20 A	12	EF-2	52
53		-- -- --	--	--	--		0.56	0.63	1	20 A	12	EF-3	54
55	UH-1	8 35 A	2	2.50	0.86				1	20 A	12	EF-4	56
57		-- -- --	--	--	--	2.50	0.86		1	20 A	12	EF-5	58
59	UH-2	8 35 A	2				2.50	1.18	1	20 A	12	EF-6	60
61		-- -- --	--	--	--	2.50	1.18		1	20 A	12	EF-7	62
63	UH-3	8 35 A	2			2.50	1.18		1	20 A	12	EF-8	64
65		-- -- --	--	--	--		2.50	1.18	1	20 A	12	EF-9	66
67	UH-4	8 35 A	2	2.50	1.18			1	20 A	12	EF-10	68	
69		-- -- --	--	--	--	2.50	0.70		1	20 A	12	SF-1	70
71	OIL FILTER CRUSHER	12 20 A	1				1.80	1.28	2	20 A	6	PARKING LOT LIGHTS (6)	72
73	FOUNDATION DRAIN SUMP (4,6)	10 20 A	1	0.95	1.28				--	--	--	74	
75	SPACE	-- 1	--					1	--	--	SPACE	76	
77	SPACE	-- 1	--					--	--	--	SPACE	78	
79	SPACE	-- 1	--					1	--	--	SPACE	80	
81	TANK REC (6)	10 20 A	1			0.18	--		1	--	SPACE	82	
83	DIESEL TANK HTR SYSTEM (6)	10 20 A	1				1.20	--	1	--	SPACE	84	
85	AIR DRYER	12 20 A	1	0.70	1.44				1	20 A	12	LTG - STORAGE	86
87	TIRE SPREADER	12 20 A	1			1.00	0.18		1	20 A	12	LTG - LOBBY	88
89	REC - IT RACK	12 20 A	1				0.36	0.48	1	20 A	12	LTG - WORKBAY WALLPACKS	90
91	IG REC - COUNTER (1)	12 20 A	1	1.08	0.95				1	20 A	12	LTG - SERVICE BAY	92
93	REC - LOBBY	12 20 A	1			1.08	0.95		1	20 A	12	LTG - SERVICE BAY	94
95	WATER COOLERS (4)	12 20 A	1				0.60	1.09	1	20 A	12	LTG - SERVICE BAY	96
97	REC - RESTROOM, RCP-1 (4)	12 20 A	1	1.72	0.52				1	20 A	12	LTG - EXTERIOR (7)	98
99	REC - MEZZ / COMPRESSOR	12 20 A	1			0.54	1.20		1	20 A	12	SPEEDCO SIGN (2,7)	100
101	REC - STORAGE (4)	12 20 A	1				1.08	1.20	1	20 A	12	SPEEDCO SIGN (2,7)	102
103	FIRE ALARM CONTROL PANEL (3)	12 20 A	1	1.00	1.20				1	20 A	12	EXTERIOR SIGNS (2,7)	104
105	FUEL MONITORING PANEL (3)	12 20 A	1			1.92	0.40		1	20 A	12	HEART SIGNS (2,7)	106
107	DIAGNOSTICS STATION	12 20 A	1				0.36	0.40	1	20 A	12	HEART SIGNS (2,7)	108
109	OIL PIT SUMP PUMP (4,12)	12 20 A	1	1.20	0.01				1	20 A	12	LC5 PILOT	110
111	OIL PIT SUMP PUMP (4,12)	12 20 A	1			1.20	1.25		1	20 A	12	LTG - OIL PIT (12)	112
113	OIL PIT SUMP PUMP (4,12)	12 20 A	1			1.20	1.25		1	20 A	12	LTG - OIL PIT (12)	114
115	REC - SERVICE BAY	12 20 A	1	1.08	1.22				1	20 A	12	LTG - SERVICE BAY EMERG. (3)	116
117	REC - SERVICE BAY	12 20 A	1			0.72	0.10		1	20 A	12	LUBE PIT RELAY PILOT (3)	118
119	REC - SERVICE BAY	12 20 A	1				0.72	0.70	1	30 A	10	EMC (2)	120
121	REC - SERVICE BAY	12 20 A	1	1.08	0.36				1	20 A	12	REC - EMC PC	122
123	REC - SERVICE BAY	12 20 A	1			1.08	0.50		1	20 A	12	DAVCO UNIT (4)	124
125	AC AUTO TANK DRAIN	12 20 A	1				0.18	0.18	1	20 A	12	TIRE SHOP MONITOR (4)	126

TOTAL CONNECTED KVA: 52.58 kVA 49.93 kVA 45.06 kVA
TOTAL CONNECTED AMPS: 444.40 A 422.28 A 375.51 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND	PANEL TOTALS
CONTINUOUS	2.72 kVA	125.00%	3.40 kVA	
NON-CONTINUOUS	23.10 kVA	100.00%	23.10 kVA	TOTAL CONN. LOAD: 147.57 kVA
LIGHTING	11.91 kVA	125.00%	14.88 kVA	TOTAL CONN. LOAD: 140.13 kVA
RECEPTACLES	20.25 kVA	74.69%	15.13 kVA	TOTAL CONN. CURRENT: 410 A
MOTORS	63.77 kVA	100.00%	63.77 kVA	TOTAL DEMAND CURRENT: 389 A
KITCHEN	0.00 kVA			
REFRIGERATION	0.00 kVA			
HVAC COOL	13.10 kVA	100.00%	13.10 kVA	
HVAC HEAT	7.32 kVA	0.00%	0.00 kVA	



2 GROUNDING ELECTRODE SYSTEM
 NTS



1 ONE-LINE DIAGRAM
 NTS

ONE-LINE NOTES

- CLEARLY LABEL MAIN ELECTRICAL SERVICE DISCONNECT(S) PER NEC.
- PROVIDE ARC FLASH LABELING AS REQUIRED PER NEC 110.16.
- AMPCACITY OF ALL CONDUCTOR SIZES SHOWN IS BASED ON 75°C RATED TERMINATIONS AND CONDUCTORS WITH 75°C TYPE INSULATION. CONTRACTOR SHALL FIELD VERIFY TERMINATION RATINGS OF ELECTRICAL EQUIPMENT AND ADJUST CONDUCTOR SIZES AS REQUIRED PER NEC 110.14(C).

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Loves
 STORE NUMBER: 860
 I-59, EXIT 1
 NICHOLSON, MS 39466
 JOB NUMBER: 03-23-30009
 SPEEDCO_4_BAY

ISSUE BLOCK

NO.	DATE	DESCRIPTION

CHECKED BY: CAR
 DRAWN BY: SED
 DOCUMENT DATE: 2/7/2023
 PROTO: SPEEDCO_4 BAY
 PROTO CYCLE: Q4 - 2022

ENGINEER
 JAMES CASTANEDA
 LICENSED PROFESSIONAL ENGINEER
 28109
 2023.02.07 14:25:12-06'00"

SCHEDULES & ONE-LINE DIAGRAM

EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

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