	ELECTRICAL GENERAL LEGEND		ELECTRICAL DEMOLI	TION G	ENERAL NOTES
	ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.	A.			TAINED FROM EXISTING DRAWINGS
SYMBOL	DESCRIPTION		AND SITE SURVEY. CONTRACTOR PRIOR TO COMMENCING WORK.	ANY DISC	CREPANCIES BETWEEN EXISTING
OTIVIDOL			CONDITIONS AND CONSTRUCTION IMMEDIATELY TO THE ENGINEER		
lacktriangle	POWER - RECEPTACLES SINGLE RECEPTACLE - 20A/125V/1P/3W/G NEMA 5-20R. MOUNT 15" AFF	B.	THE CONTRACTOR IS FULLY RESI	PONSIBLE	E FOR PERFORMING THE
Φ	DUPLEX RECEPTACLE - 20A/125V/1P/3W/G NEMA 5-20R. MOUNT 15" AFF		DEMOLITION WORK UNDER THIS S COMPLIANCE WITH ALL APPLICAB		OF THE PROJECT IN FULL L, STATE, AND FEDERAL CODES. IF
•	ISOLATED GROUND DUPLEX RECEPTACLE - 20A/125V/1P/3W/G NEMA 5-20R. MOUNT 15" AFF		THE CONTRACTOR DETERMINES PLANS ARE NOT IN COMPLIANCE		
₩ G D	FURNISH AND INSTALL GFI TYPE RECEPTACLE, FOR GARBAGE DISPOSER. CONTROL THE		INFORM THE ARCHITECT PRIOR T FAILURE TO DO SO SHALL NOT RE RESPONSIBILITY TO MEET CODE	ELIEVE TH	
WILL	GARBAGE DISPOSER VIA A MOTOR RATED WALL SWITCH, WITH PILOT LIGHT, 6" ABS. MAKE FINAL CONNECTIONS 20A/125V/1P/3W/G NEMA 5-20R. MOUNT 6" BELOW COUNTER		CONTRACTOR'S EXPENSE. APPLI DEMOLITION WORK SHALL INCLUI AN ASBESTOS SURVEY SHALL BE	DE THOSI	E PUBLISHED BY OSHA AND EPA.
	DUPLEX GFI/WEATHER PROOF RECEPTACLE WITH "WHILE IN USE COVER - 20A/125V/1P/3W/G NEMA 5-20R. MOUNT 15" AFF		DEPARTMENT OF HEALTH REQUIR	REMENTS	S
\bigoplus	USB/TAMPER RESISTANT RECEPTACLE - 20A/125V/1P/3W/G NEMA 5-20R. MOUNT 15" AFF COOPER #TR7746X - X = CONFIRM COLOR WITH ARCHITECT	C.	ALL DUST PRODUCTION, SMOKE F TO REAL TIME REVIEW BY THE AR		TION AND NOISE SHALL BE SUBJECT
	QUADRAPLEX GFI RECEPTACLE (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE). MOUNT 15" AF	:	DURING CRITICAL ACTIVITIES BY	FORMAL	REQUEST FROM THE DESIGNATED F. WORK IN DUSTY AREAS SHALL BE
 	QUADRAPLEX RECEPTACLE (TWO DUPLEX RECEPTACLES UNDER ONE COVERPLATE). MOUNT 15" AFF		CONTROLLED WITH TEMPORARY MINIMIZED TO ELIMINATE SMOKE	PARTITIC	NS. FLAME CUTTING SHALL BE
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. OR RATING AS INDICATED). MOUNT 15" AFF		EXTINGUISHERS IN THE IMMEDIAT		
•	FLOOR BOX - BASIS OF DESIGN: HUBBELL #CFBG30RCR WITH ASSOCIATED ROUND COVER, AND ACCESSORY PLATES INCLUDING (2) HUBBELL #FBMPREC FOR TRANSMITTER PLATES. PROVIDE C26# 60072 AND C2G#60150 LEGRAND TRANSMITTER PLATES. PROVIDE CG2#16239 WIREMOLD INTEGRATE TRANSITION CHANNEL.	D.	ON ANY WORK SHOWN ON ELECT DEMOLITION OF BUILDING STRUC RESPONSIBILITY OF THE CONTRA DEMOLITION. CONTRACTOR SHA DAMAGE CREATED BY DEMOLITIC	TURES A CTOR TO LL PATCH	ND FINISHES, IT SHALL BE THE COMPLETE THE NECESSARY
• _{FF}	FLOOR BOX W/FURNITURE FEED - BASIS OF DESIGN: HUBBELL #CFB4G30RCR WITH COVER #CF8BSIR8CVR. VERIFY COVER FINISH WITH ARCHITECT. PROVIDE WITH DUPLEX OPENING FBMPDUP AND FRAM FOR KEYSTONE JACKS #FBMP6KS. COORDINATE WITH FURNITURE PROVIDER FOR EXACT LOCATION AND TYPE OF CONNECTION.	E.	WITH THE SAME MATERIALS AS TI ARCHITECT APPROVED PATCHING ALL OPENINGS CUT IN MASONRY	HE SURR	OUNDING AREAS, OR WITH IALS.
₽RJ	POWER FOR CEILING MOUNTED PROJECTOR. FURNISH AND INSTALL RECEPTACLE RECESSED WITHIN 1'-0" OF PROJECTOR COLUMN SUPPORT. VERIFY LOCATION PRIOR TO ROUGH-IN. SEE NOTE 1	Е.	FLOORS SHALL BE CORE-DRILLED CONTRACTOR SHALL CHECK BUIL ENGINEER BEFORE MAKING PENE	OR SAW DING CO	VED WHEN POSSIBLE. ONSTRUCTION WITH STRUCTURAL
•	CONTROLLED RECEPTACLE. PROVIDE WITH UL LISTED AND REQUIRED BY NEC 2014 POWER SYMBOL MARKINGS. CONTROLLED SIDE OF RECEPTACLE SHALL BE CONTROLLED WITH OCCUPANCY SENSOR SHOWN ON LIGHTING PLAN. MOUNT 15" AFF		STRUCTURAL BEAMS AND REINFO	ORCING. (T OR DAM	CONTRACTOR SHALL INFORM THE MAGED WHILE MAKING OPENINGS
\$ _M	MOTOR RATED SWITCH. MOUNT 48" AFF		•	OR ESC	UTCHEONS) AROUND OPENINGS IN
TV	DUPLEX RECEPTACLE FOR TV - 20A/125V/1P/3W/G NEMA 5-20R. VERIFY MOUNTING w/ ARCH REFER TO TELECOMMUNICATIONS LEGEND FOR OTHER COMPONENTS		FINISHED AREAS. COORDINATE A OTHER TRADES.		
AVP	DUPLEX RECEPTACLE FOR AV RELATED TV - 20A/125V/1P/3W/G NEMA 5-20R. VERIFY MOUNTING w/ ARCH REFER TO TELECOMMUNICATIONS LEGEND FOR OTHER COMPONENTS	F.	ALL SURFACES COVERED BY "SPI TEMPORARY PARTITIONS SHALL I PROJECT. REMOVE THE PROTEC DEVICES, JUNCTION BOXES AND MAINTAIN THE PROTECTIVE BARF	REMAIN F TIVE BAR CONDUIT	PROTECTED THROUGHOUT THE RRIERS ONLY AFTER THE NEW
	POWER - SPECIALTY POWER		EQUIPMENT OPENINGS WITH 4 MI	L. POLY	AND DUCT TAPE IN PLACE.
$\vdash \bigcup$ \bigcup	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED TYPICAL OF ALL.	G.	CONTRACTOR SHALL KEEP THE E TIMES.	NTIRE MI	EP DEMOLITION SITE CLEAN AT ALL
⊢Ū _{DDC} ⊢Ū _{FF}	POWER FOR DDC CONTROLS. COORDINATE WITH MECHANICAL CONTRACTOR FOR REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN. WALL MOUNTED JUNCTION BOX FOR FURNITURE FEED. COORDINATE WITH FURNITURE PROVIDER FOR EXACT LOCATION AND TYPE OF CONNECTION.	H.	AND ALL ASBESTOS PRESENT IN		LY RESPONSIBLE TO IDENTIFY ANY DING PRIOR TO DEMOLITION AS
(J) _{MPS}	POWER FOR MOTORIZED PROJECTOR SCREEN. VERIFY LOCATION PRIOR TO ROUGH-IN.	l.	REQUIRED BY LAW. COORDINATION AMONG OTHER C	ONSTRU	CTION DISCIPLINES PRIOR TO
(J) _{MD}	POWER FOR MOTORIZED DOOR. PROVIDE J-BOX ABOVE CEILING FOR CIRCUIT WIRING. VERIFY ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.		DEMOLITION IS MANDATORY.		
J _{ACS}	POWER FOR ACCESS CONTROL SYSTEM. PROVIDE J-BOX ABOVE CEILING FOR CIRCUIT WIRING. COORDINATE ELECTRICAL CONNECTION TO ACCESS CONTROL WITH MANUFACTURER INSTRUCTIONS.		ELECTRICAL GENE	RAL A	BBREVIATIONS
∭ _{MG}	POWER FOR MOTORIZED GATES. COORDINATE ELECTRICAL CONNECTION TO MOTORIZED GATES WITH MANUFACTURER INSTRUCTIONS.	ABS AFF ARS	ABOVE BACK SPLASH ABOVE FINISHED FLOOR AREA OF RESCUE SYSTEM	NL NC N.O.	NIGHT LIGHT NORMALLY CLOSED NORMALLY OPEN
·	POWER FOR HAND DRYER. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN		BUILDING AUTOMATION SYSTEM	NF	NON-FUSED
EPO	EMERGENCY POWER OFF BUTTON FOR GENERATOR.	BAS BFC	BELOW FINISHED CEILING		NOT IN CONTRACT
	DOMED	ВОСТ	BOTTOM OF CABLE TRAY	PNL	PANEL PAGE F(0)
	POWER COMPINIATION STARTED, DISCONNECT SWITCH	C CB	CONDUIT CIRCUIT BREAKER	RCPT(S)	RECEPTACLE(S)
	COMBINATION STARTER - DISCONNECT SWITCH. DISCONNECT SWITCH - 30/-/3 INDICATES 30A, NONFUSED, 3-POLE; 30/30/3 INDICATES	CLG	CEILING	SD	SMOKE DAMPER
	30A, 30A FUSE, 3-POLE. MOUNT AS REQUIRED	EP EC	ELECTRICAL COMPANY EMPTY CONDUIT	S.O. SP	SPACE ONLY SPARE/SPACE
	TRANSFORMER. MOUNT AS REQUIRED	EX	EXISTING	S.T. SW	SHUNT TRIP SWITCH
	PANEL BOARD.	F FSD	FUSE FIRE & SMOKE DAMPER	TYP	TYPICAL
	CIRCUIT HOMERUN TO PANELBOARD. (2#12, 1#12G, 3/4"C 20A/1P CB UNO)	G	GROUND (EQUIPMENT)	UF	UNDERFLOOR
EPO	EMERGENCY POWER OFF SWITCH.	GAP	GENERATOR ANNUNCIATOR PANEL	UG	UNDERGROUND
IOTES:		GFI	GROUND FAULT INTERRUPTER	WG WP	WIRE GUARD WEATHERPROOF
	DEVICES AT HEIGHTS INDICATED ABOVE, UNO ON PLAN CATES TO TOP OF DEVICE	IC IG	INTERRUPTING CAPACITY ISOLATED GROUND	WP/WIU	WEATHERPROOF/ WHILE-IN-USE COVER
	CATES TO BOTTOM OF DEVICE	MTD	MOUNT OR MOUNTED	XFMR	TRANSFORMER
	MOUNTING HEIGHTS INDICATE TO CENTERLINE OF DEVICE				I

	ELECTRICAL SHEET INDEX		
SHEET#	SHEET TITLE	REV	DATE
E-001	GENERAL NOTES AND LEGENDS		
ED-100	ELECTRICAL DEMOLITION PLAN		
E-100	ELECTRICAL PLAN		
E-201	ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES		
E-202	ELECTRICAL SCHEDULES		
E-301	ELECTRICAL DETAILS		

ELECTRICAL SITE PLAN NOTES

C. ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE ENTRANCE

CONDUCTORS, AND CABLE AS SPECIFIED IN PROJECT MANUAL.

E. INFORMATION ON THIS SHEET HAS BEEN TAKEN FROM RECORD DRAWINGS

APPLICABLE CODES

AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK AND REPORT ANY AND ALL

DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THESE PLANS TO THE

REQUIREMENTS FOR TELEPHONE WITH LOCAL TELEPHONE SERVICE

ELECTRICAL CONTRACTOR SHALL INSTALL ALL UNDERGROUND CONDUIT,

COMMENCING WORK.

SAW CUTTING, AND PATCHING.

COMPANY PRIOR TO COMMENCING WORK.

ENGINEER/ARCHITECT IMMEDIATELY.

2018 INTERNATIONAL MECHANICAL CODE

2018 INTERNATIONAL PLUMBING CODE

2018 INTERNATIONAL BUILDING CODE

2017 NATIONAL ELECTRICAL CODE

2018 INTERNATIONAL ENERGY CONSERVATION CODE

ELECTRICAL CONTRACTOR SHALL CONTACT UTILITY COMPANY SERVICE

REPRESENTATIVE AND COORDINATE SERVICE INSTALLATION PRIOR TO

ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER ALL FEES AND CONSTRUCTION COSTS CHARGED BY UTILITY COMPANY FOR MAIN LINE

EXTENSIONS AND NEW SERVICE INSTALLATION IN ADDITION TO TRENCHING,

	ELECTRICAL SHEET INDEX		
SHEET#	SHEET TITLE	REV	DATE
E-001	GENERAL NOTES AND LEGENDS		
ED-100	ELECTRICAL DEMOLITION PLAN		
E-100	ELECTRICAL PLAN		
E-201	ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES		
E-202	ELECTRICAL SCHEDULES		
E-301	ELECTRICAL DETAILS		

E REC. CENTER

REPLACEMENTS

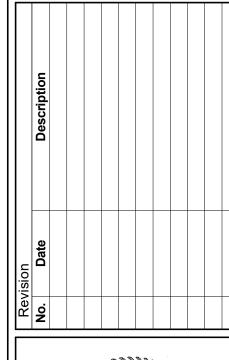
DF MESQUITE

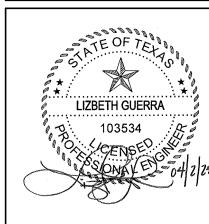
Vay, Mesquite, TX 75150

FLORENCE EQUIPMENT F









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Sheet Title

GENERAL NOTES AND LEGENDS

E-001 Sheet Number

GENERAL DEMOLITION NOTES:

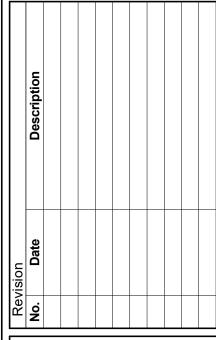
A. REFER TO SHEET E-001 FOR ELECTRICAL DEMOLITION NOTES.

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2501 Whitson Way, Mesquite, TX 75150

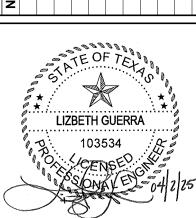


KEY NOTES:

- EXISTING AIR HANDLING UNIT TO BE DEMOLISHED. REFER TO MECHANICAL DEMOLITION PLAN MD-101. REMOVE ALL CONDUIT AND CIRCUIT WIRING BACK TO ITS SOURCE. CONTRACTOR SHALL DEMOLISH ALL ASSOCIATED ELECTRICAL EQUIPMENT SUCH AS SWITCHES AND STARTERS.
- EXISTING DOMESTIC WATER HEATER TO BE DEMOLISHED. REMOVE ALL CONDUIT AND CIRCUIT WIRING BACK TO ITS SOURCE. REFER TO MECHANICAL DEMOLITION PLAN MD-101. CONTRACTOR SHALL DEMOLISH ALL ASSOCIATED ELECTRICAL EQUIPMENT SUCH AS SWITCHES AND STARTERS.
- EXISTING BOILER TO BE DEMOLISHED. REMOVE ALL CIRCUIT WIRING BACK TO ITS SOURCE. EXISTING CONDUIT FROM BOILER TO POWER SOURCE TO REMAIN. REFER TO MECHANICAL DEMOLITION PLAN MD-101. CONTRACTOR SHALL DEMOLISH ALL ASSOCIATED ELECTRICAL EQUIPMENT SUCH AS SWITCHES AND STARTERS.
- 4. EXISTING WATER PUMP TO BE DEMOLISHED. REMOVE ALL CIRCUIT WIRING BACK TO ITS SOURCE. EXISTING CONDUIT FROM WATER PUMP TO POWER SOURCE TO REMAIN. EXISTING CIRCUIT BREAKER SHALL BE RE-USED FOR CONNECTION OF NEW WATER PUMPS. CONTRACTOR SHALL DOCUMENT AND LABEL ASSOCIATED CIRCUIT BREAKERS IN PANEL N (RIGHT) AND KEEP THIS INFORMATION FOR CONNECTION OF NEW WATER PUMPS. REFER TO MECHANICAL DEMOLITION PLAN MD-101. CONTRACTOR SHALL DEMOLISH ALL ASSOCIATED ELECTRICAL EQUIPMENT SUCH AS SWITCHES AND STARTERS.
- EXISTING CHILLER UNIT TO BE DEMOLISHED. REMOVE ALL CONDUIT AND CIRCUIT WIRING BACK TO ITS SOURCE. REFER TO MECHANICAL DEMOLITION PLAN MD-101.
- 6. EXISTING DISCONNECT FEEDING CHILLER UNIT TO BE DEMOLISHED.
- CONTRACTOR SHALL DEMOLISH EXISTING WIREWAY AND ANY REMAINING ELECTRICAL EQUIPMENT BELONGING TO DEMOLISHED HVAC EQUIPMENT.
- EXISTING CIRCULATING PUMP TO BE DEMOLISHED. REMOVE ALL CONDUIT AND CIRCUIT WIRING BACK TO ITS SOURCE. REFER TO MECHANICAL DEMOLITION PLAN MD-101.



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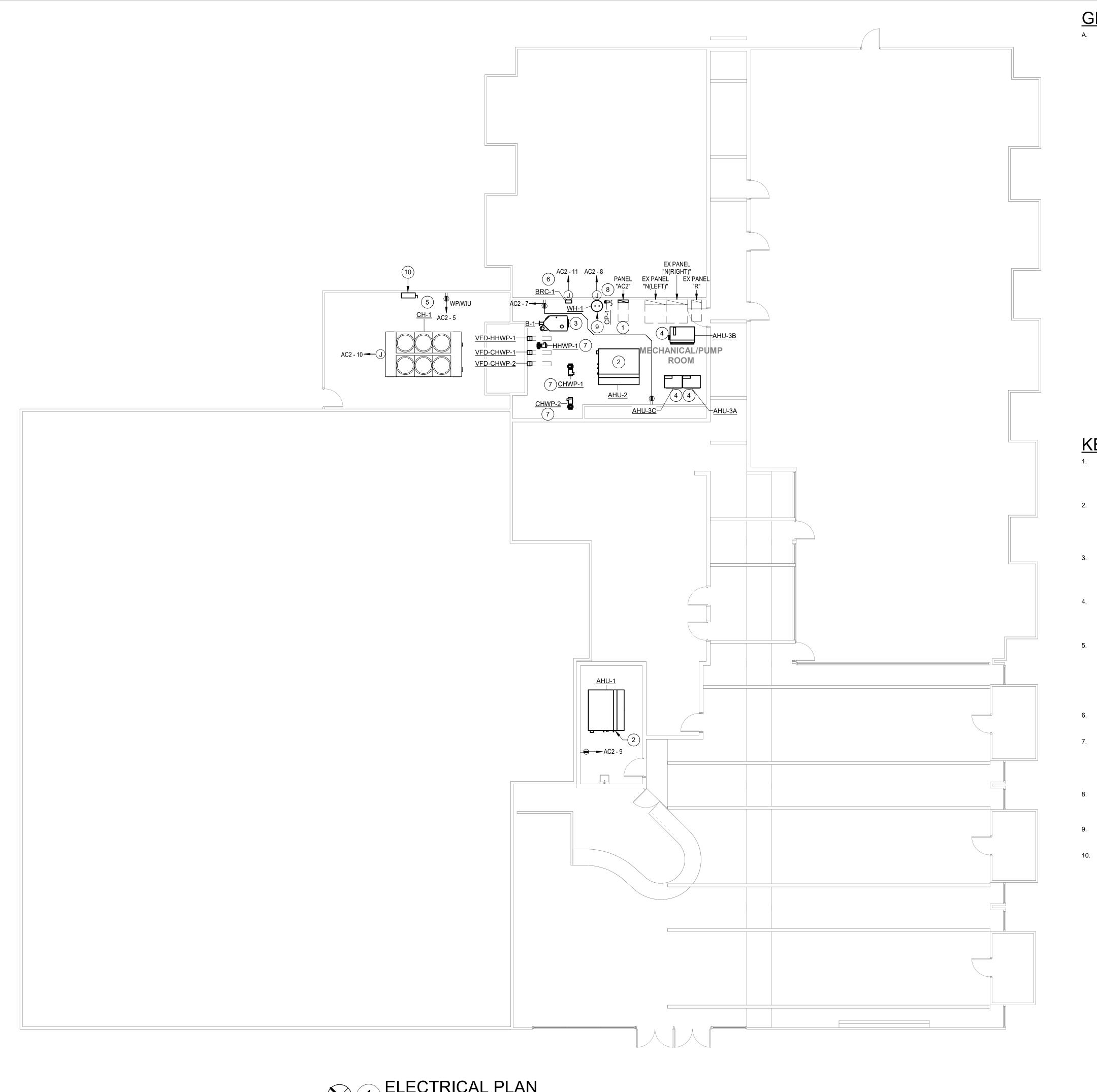


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Sheet Title

ELECTRICAL DEMOLITION PLAN

ED-100 Sheet Number



GENERAL NOTES:

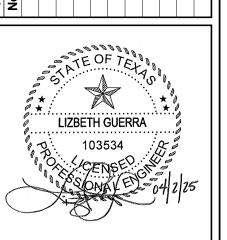
REFER TO SHEET E-001 FOR ELECTRICAL GENERAL NOTES.

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CITY OF MESQUITE
2501 Whitson Way, Mesquite, TX 75150



KEY NOTES: #

- CONTRACTOR SHALL FURNISH AND INSTALL NEW 100A 120/208V 3-PHASE PANEL-AC2 FOR CONNECTION OF NEW EQUIPMENT. CONTRACTOR SHALL RE-USE EXISTING CIRCUIT BREAKER ON PANEL N (RIGHT). REFER TO REVISED ONE-LINE DIAGRAM ON SHEET E-201 FOR CONNECTION DETAILS.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW CONDUCTORS AND CONDUIT FOR CONNECTION TO NEW AIR HANDLING UNIT. CONTRACTOR SHALL RE-USE EXISTING CIRCUIT BREAKER ON PANEL N (RIGHT). REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULES ON SHEET E-201, FOR CONNECTION DETAILS.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW CONDUCTORS IN EXISTING CONDUIT FOR CONNECTION TO NEW GAS BOILER B-1 CONTROLS. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E-201, FOR
- 4. FURNISH AND INSTALL NEW CONDUCTORS AND CONDUIT TO NEW PANEL AC2 FOR POWER TO NEW AIR HANDLING UNIT. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E-201, FOR CONNECTION
- CONTRACTOR SHALL FURNISH AND INSTALL CONDUCTORS AND CONDUIT FOR CONNECTION TO NEW CHILLER CH-1. CONTRACTOR SHALL RE-USE EXISTING CIRCUIT BREAKER ON PANEL N (RIGHT). CONTRACTOR SHALL PROVIDE ADDITIONAL 120V, 20A SINGLE PHASE CIRCUIT FOR POWER TO FREEZE PROTECTION HEATER, CIRCUIT AC2-10. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E-201, FOR CONNECTION DETAILS.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW 120V, 20A SINGLE PHASE CIRCUIT FOR POWER TO BOILER RELAY CONTROLLER BRC-1, CIRCUIT AC2-11
- 7. CONTRACTOR SHALL FURNISH AND INSTALL NEW CONDUCTORS IN EXISTING CONDUIT FOR CONNECTION TO NEW WATER PUMP VIA ITS ASSOCIATED VFD. $|\mathcal{L}|$ CONTRACTOR SHALL RE-USE EXISTING CIRCUIT BREAKERS IN PANEL N (RIGHT). REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E-201, FOR CONNECTION DETAILS.
- PROVIDE MOTOR RATED SWITCH FOR NEW CIRCULATING PUMP CP-1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E-201, FOR CONNECTION DETAILS.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW 120V, 20A SINGLE PHASE CIRCUIT FOR POWER TO GAS WATER HEATER CONTROLS, CIRCUIT AC2-8.
- 10. CONTRACTOR SHALL FURNISH AND INSTALL NEW 400A/-/3P NEMA 3R DISCONNECT FOR NEW CHILLER CH-1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E-201 FOR CONNECTION DETAILS.



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ELECTRICAL PLAN

E-100 Sheet Number

1 ELECTRICAL PLAN

1/8" = 1'-0"

	FEEDER / BRANCH CIRCUIT SCHEDULE												
		PHASE	NEUTRAL	GROUND									
MARK	RACEWAY	CONDUCTORS	CONDUCTORS	CONDUCTORS	REMARKS								
1000	1 1/4"	3#4	1#4	1#10									

EXISTING PANEL-N (RIGHT)

60A/3P

60A/3P

) 60A/3P

QMR 800A 120/280V 3-PHASE 4W, 25KAIC QMR 200A 120/280V 3-PHASE 4W, 25KAIC

225KVA

800A/3P

EX

120/208V 3-PHASE

ONCOR UTILITY TRANSFORMER

EX

EXISTING PANEL-N (LEFT)

EX

1\	/IECHAN	ICAL EG	UIPIV	MENT CONNECTION SCHEDULE
MARK	PANEL	CIRCUIT	NOTES	DISCONNECTING MEANS AND/OR BRANCH CIRCUIT SIZE
AHU-1	N(RIGHT)	EXISTING	1,2	3#4,1#10G, 1"C
AHU-2	N(RIGHT)	EXISTING	1,2	3#4,1#10G, 1"C
AHU-3A	AC2	2		30/-/1P NEMA 1 DISCONNECT SWITCH / 2#12, 1#12G, 3/4"C
AHU-3B	AC2	1,3		30/-/2P NEMA 1 DISCONNECT SWITCH / 2#12, 1#12G, 3/4"C
AHU-3C	AC2	4		30/-/1P NEMA 1 DISCONNECT SWITCH / 2#12, 1#12G, 3/4"C
B-1	R	34	3	2#12,1#12G
CH-1	N(RIGHT)	EXISTING	2	400/-/3P NEMA 3R DISCONNECT SWITCH / 3#600KCMIL,1#3G,4"C
CHWP-1	N(RIGHT)	EXISTING	2,4,5	3#10, 1#10G
CHWP-2	N(RIGHT)	EXISTING	2,4,5	3#10, 1#10G
CP-1	AC2	6		MOTOR RATED SWITCH / 2#12,1#12G,3/4"C
HHWP-1	N(RIGHT)	EXISTING	2,4,5	3#10, 1#10G

1. INTEGRAL VFD/DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR TO INSTALL.

- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS OF QMR INTERRUPTER PRIOR TO ANY
- CONTRACTOR SHALL PROVIDE BRANCH CIRCUIT CONDUCTORS FOR GAS BOILER CONTROLS IN
- 4. CONTRACTOR SHALL FURNISH AND INSTALL BRANCH CIRCUIT CONDUCTORS USING EXISTING
- CONDUIT. WALL MOUNT VFD WITH INTEGRAL DISCONNECT PROVIDED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR TO INSTALL.

KEY NOTES:

- EXISTING EQUIPMENT AND ALL ASSOCIATED WIRING TO BE REMOVED. EXISTING CONDUIT AND CIRCUIT BREAKERS SHALL REMAIN IN PLACE FOR CONNECTION OF NEW WATER PUMPS.
- 2. EXISTING EQUIPMENT TO REMAIN.
- 3. NEW PANEL AC2 SHALL BE CONNECTED TO EXISTING 60A/3P BREAKER IN EXISTING PANEL-N (RIGHT).
- 4. REFER TO PANEL SCHEDULES AND MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION DETAILS.
- EXISTING EQUIPMENT AND ALL ASSOCIATED CONDUIT AND WIRING TO BE REMOVED. EXISTING CIRCUIT BREAKERS SHALL REMAIN IN PLACE.
- 6. CONTRACTOR SHALL MARK EXISTING QMR FUSIBLE INTERRUPTER AS A SPARE.

3 2 EX EX EX EX CHWP-2 CEIVER EXIT DUCT HEATER AHU-3 (A,B,C) AHU-2 EX CHWP-1 EX HHWP-1 2 EXISTING ONE-LINE DIAGRAM N.T.S.

30A/3P

30A/3P

30A/3P

30A/3P

30A/3P

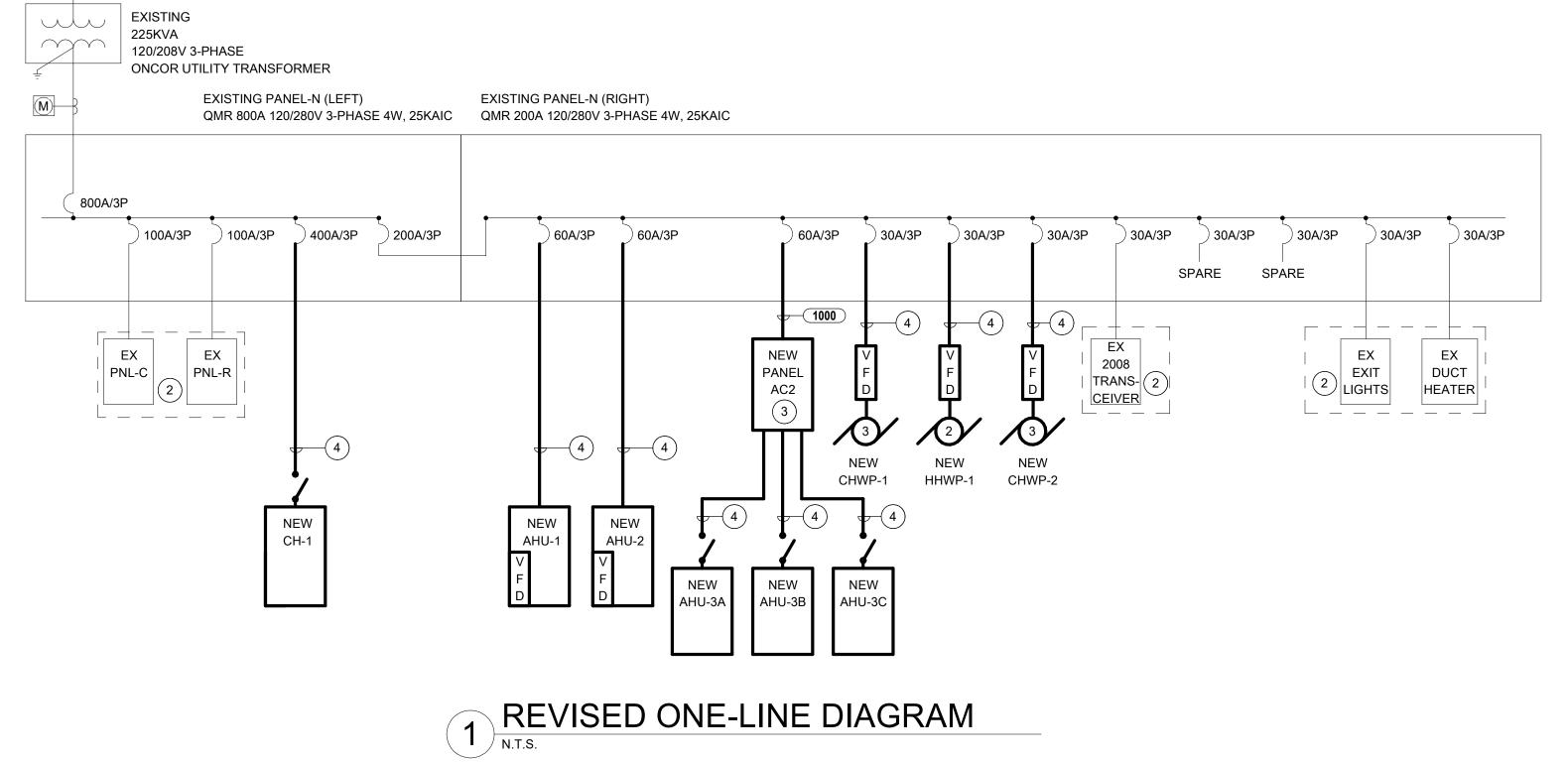
SPARE SPARE

30A/3P

30A/3P

EX

EX



	LEGEND
	NEW EQUIPMENT TO BE INSTALLED
	EXISTING EQUIPMENT TO REMAIN
A H F	ACTIVE HARMONIC FILTER
	FUSE
>	CIRCUIT BREAKER
\	SOLID STATE POWER BREAKER WITH ARC ENERGY REDUCTION PER NEC, 240.87(A) 2017
#/	INDUCTION ELECTRIC MOTOR # INDICATES RATED HORSEPOWER
	DISCONNECT SWITCH
ulu m	DRY TYPE DOE2016 TRANSFORMER
SPD	SURGE PROTECTION DEVICE
PQM	POWER QUALITY METER
(M)	UTILITY METER
V F D	VARIABLE FREQUENCY DRIVE
HVAC	HVAC EQUIPMENT
NOTES:	ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

55881.001 Issued: 04/2/2025 Drawn By: GC/LDLG Checked By: Scale: 1/8" = 1'-0" Sheet Title ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES

LIZBETH GUERRA

FLORENCE REC. CENTER
EQUIPMENT REPLACEMENTS
CITY OF MESQUITE
2501 Whitson Way, Mesquite, TX 75150

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2501

B

ME

Input Input

 CONSTRUCTION

E-201 Sheet Number

VOLTAGE: 100 A MAIN			PHASE 4 WIRE						L	OCATION: N MC	MECHANIC DUNTING: (
BUSES: M			LOAD	DIAD	OKT	DU	OVT	DICD	LOAD	\/A	\/A D	\/A 0
VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	400		LIGHTS/FIRE PANEL	20/1	1	Α -	2	20/1	LIGHTING	1000		
0	400		RECEPTACLES	20/1	3	В	4	20/1	LIGHTING	1000		
0	400		RECEPTACLES	20/1	5	С	6	20/1	LIGHTING	1000		
0	400		RECEPTACLES	20/1	7	Α	8	20/1	LIGHTING	1000		
0	400		RECEPTACLES	20/1	9	В	10	20/1	LIGHTING	1000		
0	400		RECEPTACLES	20/1	11	С	12	20/1	LIGHTING	1000		
0	400		LIGHTING	20/1	13	Α	14	20/1	LIGHTING	1000		
0	400		LIGHTING	20/1	15	В	16	20/1	LIGHTING	1000		
0	400		LIGHTING	20/1	17	С	18	20/1	EX LOAD	400	0	
0	400		LIGHTING	20/1	19	Α	20	20/1	EX LOAD	400	0	
0	400		RECEPTACLES	20/1	21	В	22	20/1	RECEPTACLES	400	0	
0	400		EX LOAD	20/1	23	С	24	20/1	RECEPTACLES	400	0	
0	400		RECEPTACLES	20/1	25	Α	26	20/1	EX LOAD	400	0	
0	400		EX LOAD	20/1	27	В	28	20/1	EX LOAD	400	0	
0	400		RECEPTACLES	20/1	29	С	30	20/1	LIGHTING	400	0	
0	400		EX LOAD	20/1	31	Α	32	20/1	EX LOAD	400	0	
0	400		AC	30/1	33	В	34	20/1	BOILER	400	0	
0	400		EX LOAD	20/1	35	С	36	20/1	AH-2	400	0	
0	400		EX LOAD	20/1	37	Α	38	20/1	RECEPTACLES/LIGHTING	400	0	
0	400		RECEPTACLES	20/1	39	В	40	40/1	EX LOAD	1500	0	
0	400		EX LOAD	20/1	41	С	42	40/1	EX LOAD	1500	0	
VA:L (LIGH	,		15400	CONNEC						DEMAND		
•	EPTACLE	S)	8400	CONNEC						DEMAND		
VA:O (OTH				CONNEC						DEMAND		
va: Total				CONNEC						DEMAND		
AMPS: TO	TAL		66	CONNEC	TED				77	DEMAND		
L	R	0		TOTAL								
4600	2800	0	VA CONNECTED TO A PHASE		VA =			62	AMPS CONNECTED TO A PHASE @ 120) VOLTS		
5700	2800	0	VA CONNECTED TO B PHASE		VA =			71				
5100	2800	0			VA =			66				
15400	8400	0	_	23800	-			30				

USES: MAIN	VA:R VA:O 400 400 400 400 400 400 400 4	LOAD LIGHTS/FIRE PANEL RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES	BKR 20/1 20/1 20/1 20/1 20/1	CKT 1 3	PH A	СКТ	BKR	LOAD	MOU VA:L	UNTING: S	VA:O
VA:L V 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VA:R VA:O 400 400 400 400 400 400 400 4	LIGHTS/FIRE PANEL RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES	20/1 20/1 20/1	1		СКТ	BKR	LOAD	VA:L	VA:R	VA:O
0 0 0 0 0 0 0 0 0	400 400 400 400 400 400 400	LIGHTS/FIRE PANEL RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES	20/1 20/1 20/1	1		СКТ	BKR	LOAD	VA:L	VA:R	VA:O
0 0 0 0 0 0 0 0	400 400 400 400 400 400	RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES	20/1 20/1		Α			The state of the s		I	-
0 0 0 0 0 0 0	400 400 400 400 400	RECEPTACLES RECEPTACLES RECEPTACLES	20/1	3		2	20/1	LIGHTING	1000		
0 0 0 0 0 0 0	400 400 400 400	RECEPTACLES RECEPTACLES			В	4	20/1	LIGHTING	1000		
0 0 0 0 0 0	400 400 400	RECEPTACLES	20/1	5	С	6	20/1	LIGHTING	1000		
0 0 0 0 0	400 400		1	7	Α	8	20/1	LIGHTING	1000		
0 0 0 0	400	DECEDTACLES	20/1	9	В	10	20/1	LIGHTING	1000		
0 0 0		INLUEFIAULES	20/1	11	С	12	20/1	LIGHTING	1000		
0 0 0		LIGHTING	20/1	13	Α	14	20/1	LIGHTING	1000		
0	400	LIGHTING	20/1	15	В	16	20/1	LIGHTING	1000		
0	400	LIGHTING	20/1	17	С	18	20/1	EX LOAD	400	0	
	400	LIGHTING	20/1	19	Α	20	20/1	EX LOAD	400	0	
0	400	RECEPTACLES	20/1	21	В	22	20/1	RECEPTACLES	400	0	
0	400	EX LOAD	20/1	23	С	24	20/1	RECEPTACLES	400	0	
0	400	RECEPTACLES	20/1	25	Α	26	20/1	EX LOAD	400	0	
0	400	EX LOAD	20/1	27	В	28	20/1	EX LOAD	400	0	
0	400	RECEPTACLES	20/1	29	С	30	20/1	LIGHTING	400	0	
0	400	EX LOAD	20/1	31	Α	32	20/1	EX LOAD	400	0	
0	400	AC	30/1	33	В	34	20/1	NEW GAS BOILER CONTROLS	400	0	-
0	400	EX LOAD	20/1	35	С	36	20/1	AH-2	400	0	
0	400	EX LOAD	20/1	37	Α	38	20/1	RECEPTACLES/LIGHTING	400	0	
0	400	RECEPTACLES	20/1	39	В	40	40/1	EX LOAD	1500	0	
0	400	EX LOAD	20/1	41	С	42	40/1	EX LOAD	1500	0	
A:L (LIGHTIN	ING)	15400	CONNEC	CTED				19250	DEMAND		
A:R (RECEP		8400							DEMAND		
A:O (OTHER	•	0.00							DEMAND		
A: TOTAL	,		CONNEC						DEMAND		
MPS: TOTAL	NL		CONNEC						7 DEMAND		
L	R O		TOTAL								
4600		0 VA CONNECTED TO A PHASE		VA =			62	AMPS CONNECTED TO A PHASE @ 12	0 VOLTS		
5700	2800	0 VA CONNECTED TO A FINASE 0 VA CONNECTED TO B PHASE		VA =			7				
5100	2800	0 VA CONNECTED TO B FITASE O VA CONNECTED TO C PHASE		VA =			66		0 VOLTS		

	PANEL: AC2													
Notes:	Location: MECHANIC Supply From: N(RIGHT) Mounting: Surface Enclosure: Type 1	Volts: 120/208 Wye Phases: 3 Wires: 4								A.I.C. Rating: 25KAIC Mains Type: MCB Mains Rating: 100 A MCB Rating: 60 A				
0167					A	E	3						01/7	
CKT AH	Circuit Description J-3B	Trip 20 A	Poles 2	1367 VA	863 VA					Poles 1		Circuit Description AHU-3A	CKT 2	
3	J-3B	20 A		1307 VA	003 VA	1367 VA	863 VA			1		AHU-3C	4	
	RECEPT	20 A	1			1307 VA	003 VA	180 VA	168 VA	1	20 A		6	
	RECEPT	20 A	1	360 VA	180 VA			100 VA	100 VA	1		WH-1 CONTROLS	8	
	RECEPT	20 A	1	300 VA	100 VA	180 VA	500 VA			1		CH-1 FREEZE PROTECTION	10	
	ILER RELAY CONTROLLER	20 A	1			100 VA	300 VA	500 VA		1		Space	12	
13 Spa			1					300 VA		1		Space	14	
15 Spa			1							1		Space	16	
17 Spa			1							1		Space	18	
19 Spa			1							1		Space	20	
21 Spa			1							1		Space	22	
23 Spa			1							1		Space	24	
25 Spa			1		0 VA					3	30 A	•	26	
27 Spa			1		0 17 1		0 VA						28	
29 Spa			1				0 171		0 VA				30	
20 000			Load:	2770) \/A	2910) \/A	848						
			Amps:			27			A					
Load Clas	sification			cted Load		emand Fac			ed Demand	i		Panel Totals		
Motor				8 VA		100.00%			8 VA					
Other			464	10 VA		100.00%		464	10 VA			Total Conn. Load: 6528 VA		
Receptacle	9		72	0 VA		100.00%		72	0 VA			Total Est. Demand: 6528 VA		
Power			100	00 VA		100.00%		100	00 VA			Total Conn. Current: 18 A		
											To	tal Est. Demand Current: 18 A		
I														

GENERAL NOTES:

KEY NOTES: #

CONNECTION OF NEW LOAD.

ROOM NAMES.

PROVIDE A TYPE-WRITTEN UPDATED DIRECTORY INCLUDING

CONTRACTOR SHALL REUSE EXISTING CIRCUIT BREAKER FOR

- REFER TO SHEET E-001 FOR ELECTRICAL GENERAL NOTES. REFER TO MECHANICAL DEMOLITION DRAWINGS FOR EXACT SCOPE OF MECHANICAL DEMOLITION WORK.
- C. INFORMATION ON THIS SHEET HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- D. REFER TO SHEET E-201 FOR SYMBOLS LEGEND.

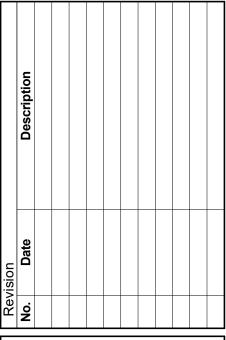
FLORENCE REC. CENT	CITY OF MESQUITE
EQUIPMENT REPLACEME	2501 Whitson Way, Mesquite, TX

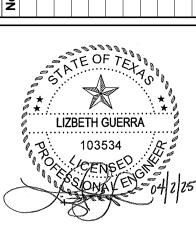
CONSTRUCTION DOCUMENTS











AVO:	55881.001
Issued:	04/2/2025
Drawn By:	GC/LDLG
Checked By:	LG
Scale:	As indicated
Sheet Title	

ELECTRICAL SCHEDULES

E-202

