

ELECTRICAL ABBREVIATIONS

Table of electrical abbreviations including 1PH (SINGLE-PHASE), 1P (SINGLE POLE), 2/C (TWO-CONDUCTOR), 3/C (THREE-CONDUCTOR), 3PH (THREE-PHASE), 4/C (FOUR-CONDUCTOR), 4W (FOUR-WIRE), A/C UNIT (AIR CONDITIONING UNIT), AC (ARCHITECT/ENGINEER), ACC (ACCESSIBLE), ADDL (ADDITIONAL), ADJ (ADJACENT, ADJOINING), AF (AMPERE FRAME OR AMP FUSE), AFC (AVAILABLE FAULT CURRENT), AFF (ABOVE FINISHED FLOOR), AFG (ABOVE FINISHED GRADE), AHJ (AUTHORITY HAVING JURISDICTION), AIC (AMPERE INTERRUPTING CAPACITY), ALT (ALTERNATE), AMB (AMBIENT), AMP (AMPERE), ARCH (ARCHITECT), ASC (AMPS SHORT CIRCUIT), AT (AMPERE TRIP), ATS (AUTOMATIC TRANSFER SWITCH), AUTO (AUTOMATIC), BAT (BATTERY), BC (BARE COPPER), BD (BOARD), BFF (BELOW FINISH FLOOR), BLDG (BUILDING), BRKR (BREAKER), BYP (BY PASS), C (CONDUIT), CAB (CABINET), CALC (CALCULATE), CAP (CAPACITY), CAT (CATALOG), CCR (CONTROL CONTACTOR), CD (CONSTRUCTION DOCUMENTS), CF (CONTRACTOR FURNISHED), CF/CI (CONTRACTOR FURNISHED/CONTRACTOR INSTALLED), CF/OI (CONTRACTOR FURNISHED/OWNER INSTALLED), CFE (CONTRACTOR FURNISHED EQUIPMENT), CHW (CHILLED WATER), CHWP (CHILLED WATER PUMP), CKT (CIRCUIT), CKT BRKR (CIRCUIT BREAKER), CLF (CURRENT LIMITING FUSE), CLG (CEILING), CMU (CONCRETE MASONRY UNIT), COMPT (COMPARTMENT), CONC (CONCRETE), CONT (CONTINUE), CONTR (CONTRACTOR), COORD (COORDINATE), CPT (CONTROL POWER TRANSFORMER), CRI (COLOR RENDERING INDEX), CT (CURRENT TRANSFORMER), CU FT (COPPER CUBIC FEET), CUR (CURRENT), DB (DIRECT BURIAL), DC (DIRECT CURRENT), DCP (DIMMER CONTROL PANEL), DEMO (DEMOLITION), DISC (DISCONNECT), DISTR (DISTRIBUTION), DISTR PNL (DISTRIBUTION PANEL), DMR SW (DIMMER SWITCH), DN (DOWN), DPDT (DOUBLE POLE, DOUBLE THROW), DPST (DOUBLE POLE, SINGLE THROW), DS (DISCONNECT SWITCH), DWG (DRAWING), EC (EMPTY CONDUIT), EG (EQUIPMENT GROUND), EL (ELEVATION), ELEC (ELECTRIC OR ELECTRICAL), EMER (EMERGENCY), EMI (ELECTROMAGNETIC INTERFERENCE), EMT (ELECTRICAL METALLIC TUBING), ENCL (ENCLOSURE), EPO (EMERGENCY POWER OFF), EPRF (EXPLOSION PROOF), ESMT (EASEMENT), EWH (ELECTRIC WATER HEATER), EXIST (EXISTING), FA (FIRE ALARM), FC (FOOTCANDLE), FIXT (FIXTURE), FLA (FULL LOAD AMPS), FLEX (FLEXIBLE METALLIC CONDUIT), FLUOR (FLUORESCENT), FT (FEET OR FOOT), FU SW (FUSED SWITCH), FVNR (FULL VOLTAGE NON-REVERSING), FVR (FULL VOLTAGE REVERSING), G (GROUND OR GENERATOR), GEN (GENERATOR), GFCI (GROUND FAULT CIRCUIT INTERRUPTER), IMC (INTERMEDIATE METAL CONDUIT), IR (INFRARED), IWH (INSTANTANEOUS WATER HEATER), J-BOX (JUNCTION BOX), kV (KILOVOLT), kVA (KILOVOLT AMPERE), kVAH (KILOVOLT AMPERE PER HOUR), kVAR (KILOVOLT AMPERE REACTIVE), kW (KILOWATT), kWh (KILOWATT HOUR), kWhM (KILOWATT HOUR METER), LED (LIGHT EMITTING DIODE), LF (LINEAR FEET (FOOT)), LM (LUMEN), LP (LIGHT POLE), LT (LIGHT), LTG (LIGHTING), LTNG (LIGHTNING), LV (LOW VOLTAGE), MAX (MAXIMUM), MC (METAL-CLAD), MCA (MINIMUM CIRCUIT AMPS), MCB (MAIN CIRCUIT BREAKER), MCC (MOTOR CONTROL CENTER), MDP (MAIN DISTRIBUTION PANEL), MECH (MECHANICAL), MG (MOTOR GENERATOR), MH (MANHOLE), MIN (MINIMUM), MOC (MAXIMUM OVERCURRENT PROTECTION), MLO (MAIN LUGS ONLY), MT (MOUNT), MTD (MOUNTED), MTG (MOUNTING), MTS (MANUAL TRANSFER SWITCH), MV (MEDIUM VOLTAGE), MVA (MEGAVOLT-AMPERE), MW (MEGAWATT MICROWAVE), NA (NOT APPLICABLE), NEC (NATIONAL ELECTRICAL CODE), NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION), N (NEUTRAL), NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), NIC (NOT IN CONTRACT), NO (NORMALLY OPEN), NS (NO SCALE), NTS (NOT TO SCALE), OC (ON CENTER), OD (OUTSIDE DIAMETER), OL (OVERLOAD), P (POLE), PB (PANELBOARD, PULL BOX, OR PUSHBUTTON), PEC (PHOTOELECTRIC CELL), PED (PEDESTAL), PEND (PENDANT), PF (POWER FACTOR), PH (PHASE), PNL (PANEL), POD (POWER OPERATED DAMPER), PT (POTENTIAL TRANSFORMER), PTRV (POWER TYPE ROOF VENTILATION), PVC (POLYVINYL CHLORIDE (PLASTIC)), PWR (POWER), RCP (REFLECTED CEILING PLAN), REC (RECESSED), RECP (RECEPTACLE), RGS (RIGID GALVANIZED STEEL), RM (ROOM), REQD (REQUIRED), SCC (SHORT CIRCUIT CAPACITY), SES (SERVICE ENTRANCE SECTION), SF (SQUARE FOOT (FEET)), SHT (SHEET), SI (INTERNATIONAL SYSTEM OF UNITS), SPEC (SPECIFICATION), SPST (SINGLE POLE, SINGLE THROW), SURF (SURFACE), SW (SWITCH), SWBD (SWITCHBOARD), SWGR (SWITCHGEAR), TC (TIME CLOCK), TP (TWISTED PAIR), TPS (TWISTED PAIR SHIELDED), TTB (TELEPHONE TERMINAL BOARD), TYP (TYPICAL), UFD (UNDERFLOOR DUCT), UGND (UNDERGROUND), UL (UNDERWRITERS LABORATORY), UON (UNLESS OTHERWISE NOTED), UPS (UNINTERRUPTIBLE POWER SUPPLY), UTIL (UTILITY), V (VOLT), VA (VOLT AMPERE), VAR (VOLT AMPERE REACTIVE), VFD (VARIABLE FREQUENCY DRIVE), VOLT (VOLTAGE), W (WATT), WH (WATER HEATER), WP (WEATHERPROOF), XFER (TRANSFER), XFMR (TRANSFORMER)

ELECTRICAL SYMBOLS - DIAGRAM

Table of electrical symbols for diagrams including Delta Connection, Motor (Single-Phase), Motor (Three-Phase), Transformer, Wye Connection, Earth Ground, Fuse with Rating, Molded Case Circuit Breaker, Switch and Fuse Unit, Disconnect Switch (Fused/Unfused), Starter (Combination with Disconnect Switch), Starter or Motor Controller, Ammeter, Voltmeter, Wattmeter, Watt-Hour Meter.

GENERAL NOTES

- A. ALL FINAL LOCATIONS AND ARRANGEMENTS OF LIGHTING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL REFLECTED CEILING PLAN.
B. LIGHTING FIXTURES WITH MORE THAN TWO LAMPS SHALL HAVE TWO OUTER LAMPS CONTROLLED WITH ONE SWITCH AND INNER LAMP(S) CONTROLLED BY A SECOND SWITCH.
C. (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
D. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

GENERAL NOTES - DEMOLITION

- A. EXISTING EQUIPMENT, SUCH AS LIGHTING FIXTURES, WIRING DEVICES, CONDUITS, ETC., SHOWN ON PLANS TO BE REMOVED COMPLETELY. CUT/CAP CONDUITS AT THE AREA OF WORK PERIMETER AND REMOVE CONDUIT WITHIN THE WORK AREA. DISCONNECT WIRING AT THE OVERCURRENT PROTECTIVE DEVICE AND REMOVE WIRING COMPLETELY FROM THE ABANDONED CONDUITS.
B. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE, IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE.
C. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

ELECTRICAL SYMBOLS - POWER PLAN

Table of electrical symbols for power plans including Motor (Single-Phase), Motor (Three-Phase), Transformer (Plan), Wye Connection, Branch Circuit Homerun, Push Button, Distribution Panel, Panelboard Cabinet (Flush/Surface Mounted), Disconnect Switch (Fused/Unfused), Starter (Combination with Disconnect Switch), Starter or Motor Controller, Variable Frequency Drive.

SWITCH (# SUBSCRIPT AS INDICATED BELOW):
M = MANUAL MOTOR STARTING K = KEY OPERATED
MP = MOTOR SNAP WITH PILOT LIGHT LM = LOW VOLTAGE MASTER
(THERMAL TYPE) MC = MOMENTARY CONTACT
WP = WEATHER PROOF P = WITH PILOT LIGHT

ELECTRICAL SYMBOLS - LIGHTING PLAN

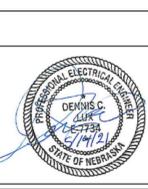
SWITCH
BLANK = SINGLE POLE 2 = DOUBLE POLE
3 = THREE-WAY 4 = FOUR-WAY
D = DIMMER K = KEY OPERATED
LV = LOW VOLTAGE P = WITH PILOT LIGH
LM = LOW VOLTAGE MASTER RC = REMOTE CONTROL
PB = PUSH BUTTON STATION WP = WEATHER PROOF
T = TIMER OPERATED Mo = OCCUPANCY SENSOR



Vertical scale on the left side of the page: three inches = one foot, one and one half inches = one foot, one inch = one foot, three quarters inch = one foot, one half inch = one foot, three eighths inch = one foot, one quarter inch = one foot, one eighth inch = one foot.

Table with columns for Revisions and Date.

Table for CONSULTANTS with columns for Name and Date.



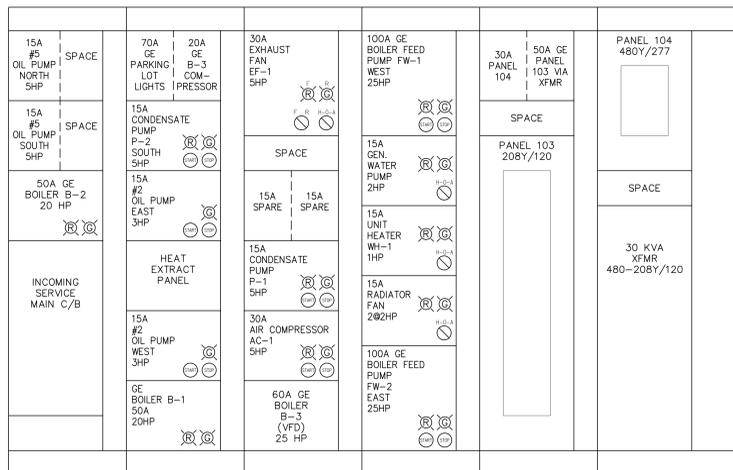
ARCHITECT/ENGINEERS: FARRIS ENGINEERING, OMAHA | LINCOLN | SIDNEY | COLORADO SPRINGS. Includes logo for Calvin L. Hinz and project number FEI #202013.

Table with Drawing Title (ELECTRICAL - SYMBOL LEGEND AND GENERAL NOTES) and Approved Project Director.

Table with Project Title (OMAHA VAMC - CORRECT MECHANICAL DEFICIENCIES), Project Number (636-19-301), Building Number (2), Location (OMAHA, NE), Date (05-14-2021), Checked (DCL), Drawn (SCT), Drawing Number (2EG101), and Dwg. of X.

100% CD SUBMITTAL. Office of Construction and Facilities Management. Department of Veterans Affairs.

EXISTING MOTOR CONTROL CENTER 'MCC' - FPE (FEDERAL PACIFIC) 500A 480Y/277



EXISTING MOTOR CONTROL CENTER (TO BE REMOVED)
NO SCALE

GENERAL ELECTRICAL NOTES

A. TEMPORARY BOILERS SHALL BE FULLY OPERATIONAL PRIOR TO REMOVAL OF EXISTING MCC.

ELECTRICAL KEYNOTES: (C)

- 1 REMOVE EXISTING BOILER CONTROL PANELS.
- 2 REMOVE EXISTING FLAME FAILURE PANEL AND CONNECTIONS TO BOILER AND ASSOCIATED BOILER CONTROL PANEL.
- 3 REMOVE EXISTING VFD.
- 4 REMOVE 100 AMP, 3-POLE SAFETY SWITCH.
- 5 REMOVE WIRE AND CONDUIT BACK TO SOURCE AT EXISTING MOTOR CONTROL CENTER.
- 6 REMOVE FEEDER TO EXISTING PANEL '105'. RETAIN CONDUIT FOR CONNECTION TO NEW POWER SOURCE.
- 7 REMOVE FEEDER TO EXISTING PANEL '101'.
- 8 PROVIDE 200 AMP, 3-POLE, FUSIBLE, 480 VOLT SAFETY SWITCH IN NEMA 1 ENCLOSURE. PROVIDE FUSES PER MANUFACTURER'S REQUIREMENT.
- 9 PROVIDE 3-#1/0, 1-#6 GRD., 2" C. TO NEW MAIN SWITCHBOARD 'MSB-2'. PROVIDE CONNECTION TO NEW 150 AMP, 3-POLE CIRCUIT BREAKER IN NEW SWITCHBOARD 'MSB-2'.
- 10 REMOVE EXISTING RADIATOR FAN DISCONNECTS.
- 11 REMOVE EXISTING GENERATOR COOLANT PUMP DISCONNECT.

three inches = one foot

one and one half inches = one foot

one inch = one foot

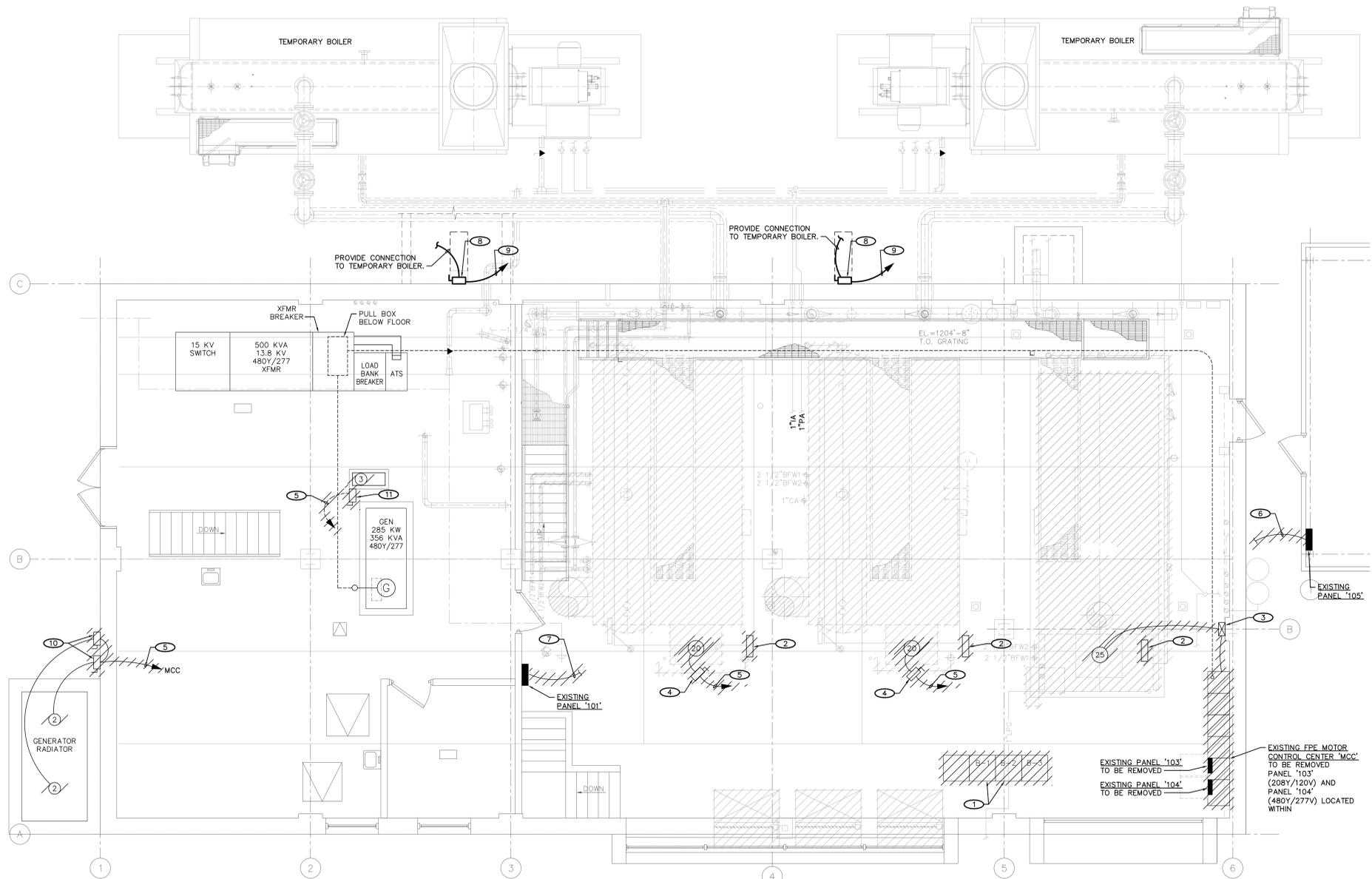
three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot



ELECTRICAL DEMOLITION - FIRST FLOOR POWER PLAN

SCALE: 1/4" INCH = 1 FOOT
12" 0 5"

100% CD SUBMITTAL

Revisions	Date

CONSULTANTS:



ARCHITECT/ENGINEERS:

FARRIS ENGINEERING
OMAHA | LINCOLN | SIDNEY | COLORADO SPRINGS
farris-usa.com FEI #202013

CLH
Calvin L. Hinz
ARCHITECTS & ENGINEERS
3705 North 200th Street
Elkhorn, Nebraska 68022
(402) 291-6941

Drawing Title	Project Title
ELECTRICAL DEMOLITION - FIRST FLOOR POWER PLAN	OMAHA VAMC - CORRECT MECHANICAL DEFICIENCIES
Approved Project Director	Location
	OMAHA, NE
	Date
	05-14-2021
	Checked
	DCL
	Drawn
	SCT

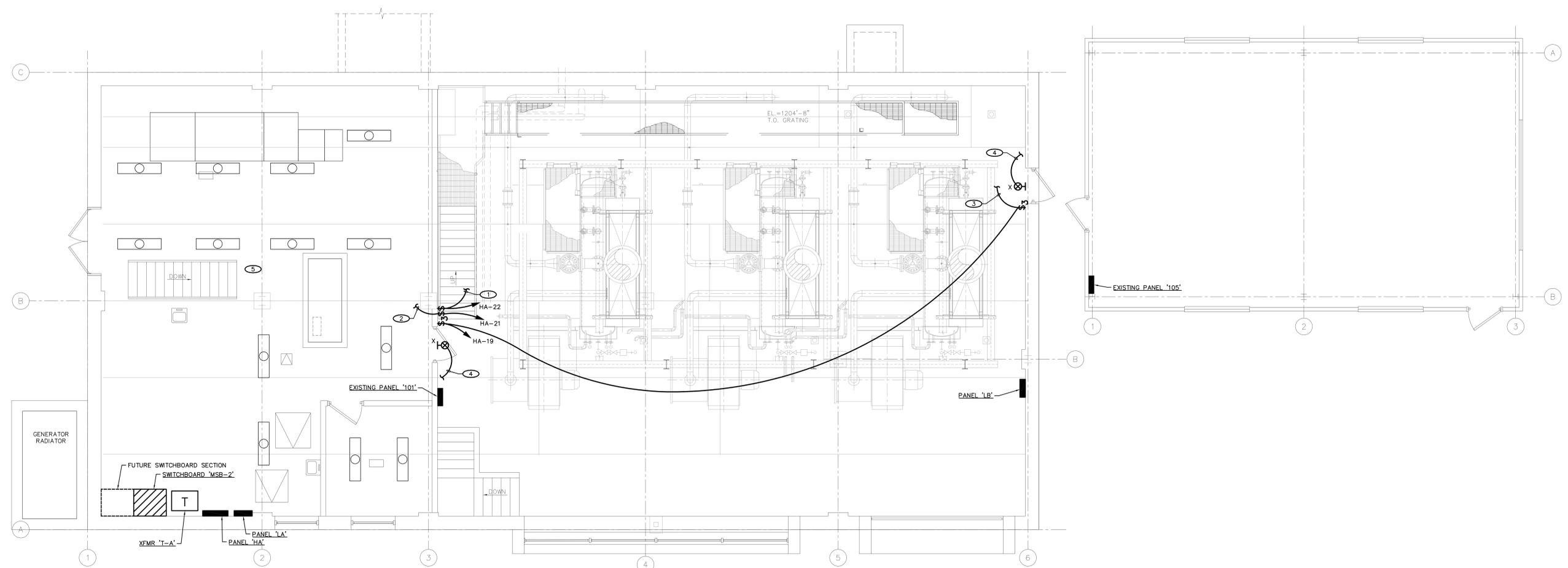
Project Number	636-19-301
Building Number	2
Drawing Number	2ED201
Dwg. of X	

Office of Construction and Facilities Management

Department of Veterans Affairs

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot

- ELECTRICAL KEYNOTES:** (○)
- 1 PROVIDE CONNECTION TO LUMINAIRES ABOVE IDENTIFIED BY KEYNOTE 1 ON SHEET 2EL102. PROVIDE ADDITIONAL UNSWITCHED POWER CONNECTIONS TO LUMINAIRE FOR EMERGENCY LIGHT OPERATION.
 - 2 PROVIDE CONNECTION TO LUMINAIRES ABOVE IDENTIFIED BY KEYNOTE 2 ON SHEET 2EL102.
 - 3 PROVIDE CONNECTION TO LUMINAIRES ABOVE IDENTIFIED BY KEYNOTE 3 ON SHEET 2EL102.
 - 4 PARTIAL CIRCUIT HA-22.
 - 5 RECONNECT EXISTING LUMINAIRES IN THIS ROOM TO NEW CIRCUIT HA-20. FIELD VERIFY EXACT REQUIREMENTS.

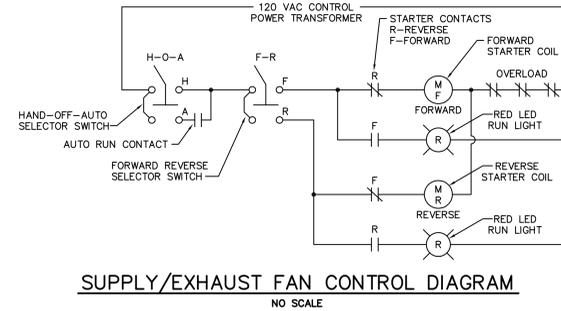
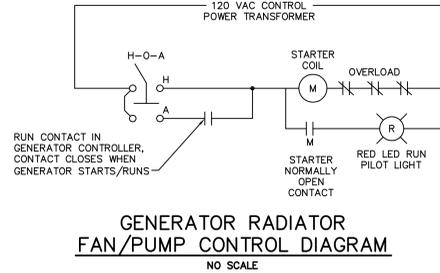
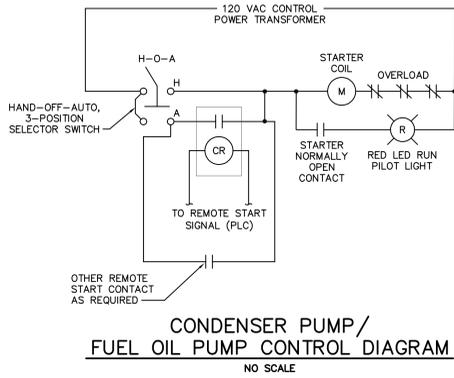


ELECTRICAL - FIRST FLOOR LIGHTING PLAN
 SCALE: 1/4" = 1 FOOT
 12" 0 1/4" 1/2" 3/4" 1" 5"

100% CD SUBMITTAL

Revisions Date	CONSULTANTS:		ARCHITECT/ENGINEERS: FARRIS ENGINEERING OMAHA LINCOLN SIDNEY COLORADO SPRINGS farris-usa.com FEI #202013		Drawing Title ELECTRICAL - FIRST FLOOR LIGHTING PLAN	Project Title OMAHA VAMC - CORRECT MECHANICAL DEFICIENCIES	Project Number 636-19-301	Office of Construction and Facilities Management Department of Veterans Affairs
					Approved Project Director	Location OMAHA, NE	Building Number 2	
					Date 05-14-2021	Checked DCL	Drawn SCT	Dwg. of X

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot

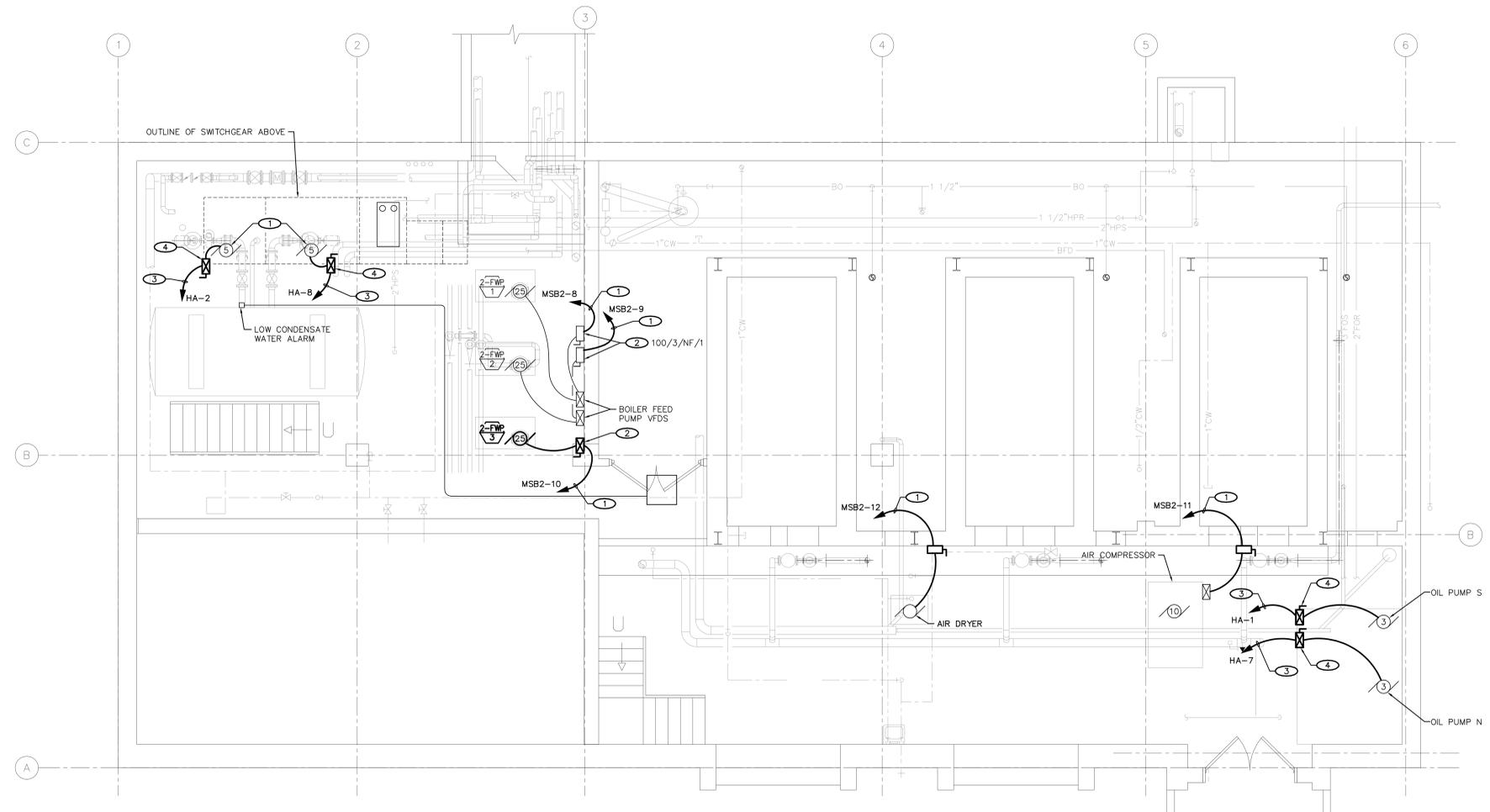


GENERAL ELECTRICAL NOTES

- A. A MINIMUM OF 1 CONDENSATE PUMP, 1 BOILER FEED PUMP, AND 1 FUEL OIL PUMP SHALL REMAIN OPERABLE AT ALL TIMES. COORDINATE INDIVIDUAL EQUIPMENT CUT OVER TO NEW POWER SOURCE/CONTROLLERS WITH OWNERS REPRESENTATIVES.

ELECTRICAL KEYNOTES: (○)

- 1 PROVIDE CONNECTION TO MSB2. SEE SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS.
- 2 PROVIDE NEW VFD.
- 3 PROVIDE 3-#10, 1-#10 GRD., 3/4" C.
- 4 PROVIDE NEMA SIZE 1, FULL VOLTAGE, NON-REVERSING, FUSIBLE COMBINATION STARTER WITH STOP/START PUSH BUTTON RED LED RUN PILOT LIGHT, 120 VAC CONTROL POWER TRANSFORMER IN NEMA 1 ENCLOSURE.



ELECTRICAL - BASEMENT POWER PLAN

SCALE: 1/4" INCH = 1 FOOT

12" 0' 5'

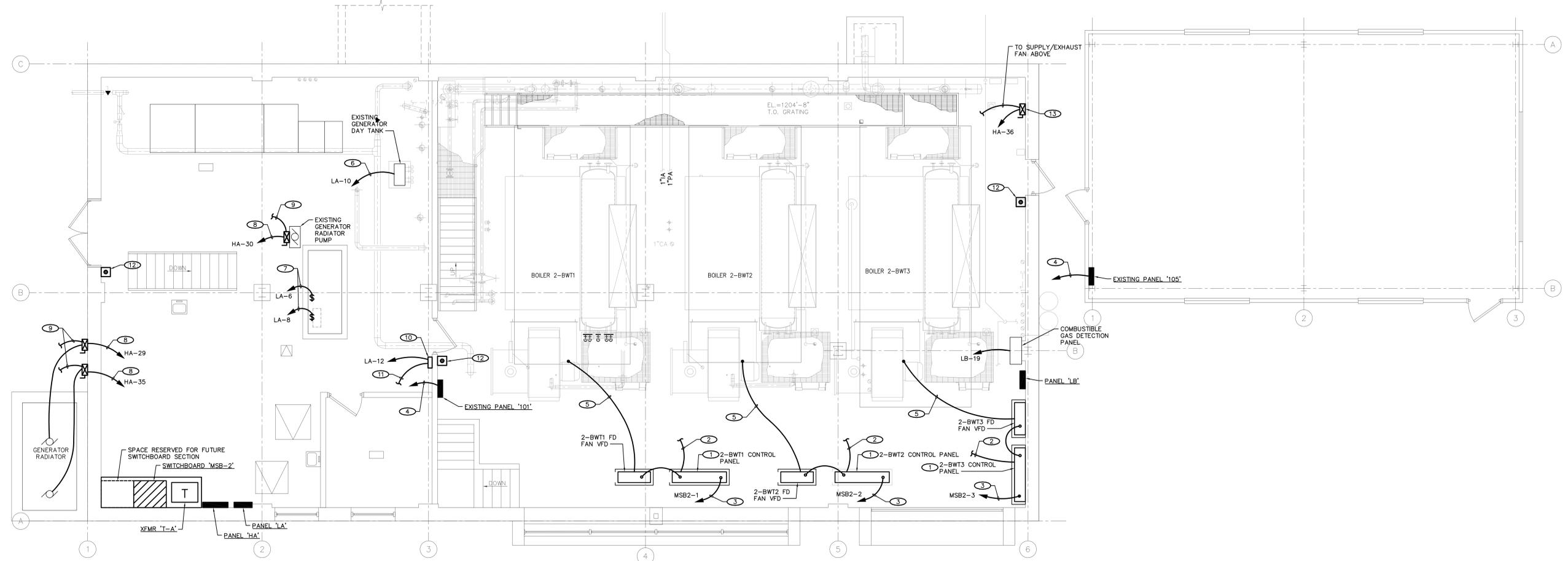
NORTH

100% CD SUBMITTAL

Revisions Date	CONSULTANTS:		ARCHITECT/ENGINEERS: FARRIS ENGINEERING OMAHA LINCOLN SIDNEY COLORADO SPRINGS farris-usa.com FEI #202013		Drawing Title ELECTRICAL - BASEMENT POWER PLAN	Project Title OMAHA VAMC - CORRECT MECHANICAL DEFICIENCIES	Project Number 636-19-301	Office of Construction and Facilities Management
					Approved Project Director	Location OMAHA, NE	Building Number 2	
					Date 05-14-2021	Checked DCL	Drawn SCT	Dwg. of X

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

- ELECTRICAL KEYNOTES:** (○)
- 1 BURNER CONTROL PANEL FURNISHED WITH BOILER.
 - 2 PROVIDE INTERCONNECTING WIRING BETWEEN BOILER CONTROL PANEL AND ASSOCIATED BOILER. ALL WIRING SHALL BE ENCLOSED WITHIN RACEWAY COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT FURNISHED.
 - 3 PROVIDE CONNECTION TO MSB-2. SEE SCHEDULE FOR CONDUCTOR AND CONDUIT REQUIREMENTS.
 - 4 PROVIDE CONNECTION FROM EXISTING PANEL TO NEW POWER SOURCE IN PANEL 'LA'.
 - 5 PROVIDE CONNECTION FROM VFD TO BOILER FD FAN.
 - 6 PROVIDE CONNECTION TO EXISTING DAY TANK; 2-#12, 1-#12, 1/2" C.
 - 7 PROVIDE CONNECTION TO EXISTING GENERATOR BLOCK HEATER AND BATTERY CHARGER; 2-#12, 1-#12, 1/2" C.
 - 8 3-#12, 1-#12, 1/2" C.
 - 9 PROVIDE CONNECTION TO GENERATOR CONTROLLER FOR AUTOMATIC OPERATION. 2-#12, 1-#12 GRD., 1/2" C.
 - 10 BOILER EMERGENCY SHUTDOWN PANEL. SEE DETAIL FOR REQUIREMENTS.
 - 11 PROVIDE CONNECTION TO SHUNT TRIP CIRCUIT BREAKERS IN 'MSB-2' AND PANEL 'HA'.
 - 12 BOILER EMERGENCY SHUTDOWN PUSH BUTTON. SEE DETAILS FOR REQUIREMENT. PROVIDE CONNECTION TO BOILER EMERGENCY SHUTDOWN PANEL.
 - 13 PROVIDE 480-VOLT, NEMA SIZE 1, FULL VOLTAGE, REVERSIBLE, FUSIBLE, COMBINATION STARTER WITH HAND-OFF-AUTO SELECTOR SWITCH, FORWARD-REVERSE SELECTOR SWITCH, RED LED FORWARD AND REVERSE PILOT LIGHTS AND CONTROL POWER TRANSFORMER IN NEMA 1 ENCLOSURE. PROVIDE CONNECTION TO CIRCUIT INDICATED IN PANEL 'HA' AND SUPPLY/EXHAUST FAN ON ROOF. PROVIDE 3-#10, 1-#10 GRD., 3/4" C. SEE CONTROL DETAILS.



ELECTRICAL - FIRST FLOOR POWER PLAN
 SCALE: 1/4" = 1 FOOT
 12" 0' 5'

100% CD SUBMITTAL

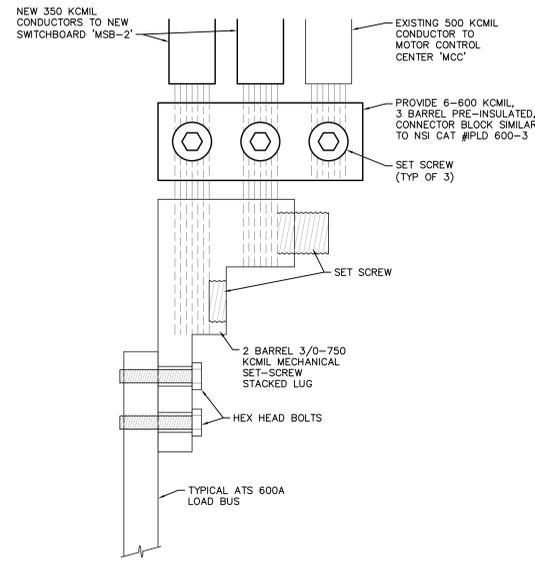
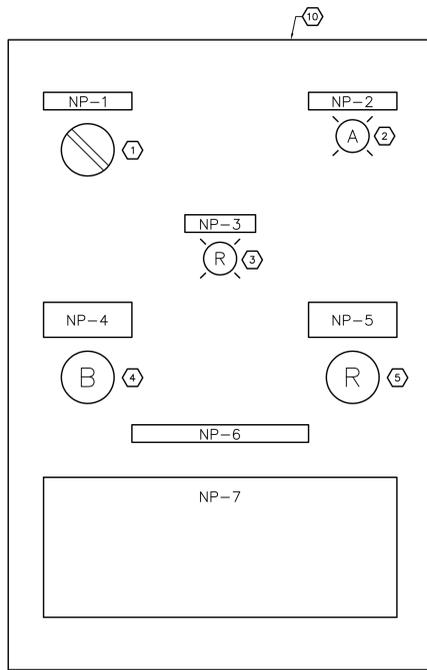
CONSULTANTS: 	ARCHITECT/ENGINEERS: FARRIS ENGINEERING OMAHA LINCOLN SIDNEY COLORADO SPRINGS farris-usa.com FEI #202013	 CLH PROJECT Calvin L. Hinz 3705 North 200th Street Elkhorn, Nebraska 68022 (402) 291-6941	Drawing Title ELECTRICAL - FIRST FLOOR POWER PLAN	Project Title OMAHA VAMC - CORRECT MECHANICAL DEFICIENCIES	Project Number 636-19-301
			Approved Project Director	Location OMAHA, NE	Building Number 2
Revisions Date	Date 05-14-2021	Checked DCL	Drawn SCT	Date 05-14-2021	Dwg. of X

GENERAL NOTES:
 A. DASHED LINES ARE FIELD WIRING.
 B. ALL WIRING TO BE #12 AWG STRANDED.

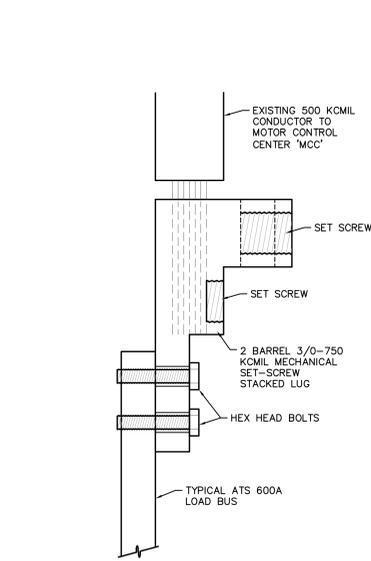
SHUT DOWN PANEL KEYNOTES: (○)

- ① PROVIDE SIMILAR TO ALLEN-BRADLEY, 30.5mm, 800 T-SERIES, MAINTAINED CONTACT, 2 POSITION SELECTOR SWITCH.
- ② PROVIDE SIMILAR TO ALLEN-BRADLEY, 30.5mm, 800 T-SERIES, AMBER LED PILOT LIGHT.
- ③ PROVIDE SIMILAR TO ALLEN-BRADLEY, 30.5mm, 800 T-SERIES, RED LED PILOT LIGHT.
- ④ PROVIDE SIMILAR TO ALLEN-BRADLEY, 30.5mm, 800 T-SERIES, NORMALLY OPEN-MOMENTARY CONTACT, BLOCK PUSHBUTTON COMPLETE WITH PUSHBUTTON GUARD.
- ⑤ PROVIDE SIMILAR TO ALLEN-BRADLEY, 30.5mm, 800 T-SERIES, NORMALLY OPEN-MOMENTARY CONTACT, RED MUSHROOM HEAD AND PUSHBUTTON GUARD. PROVIDE SIGN ABOVE PUSHBUTTON STATING "BOILER KILL SWITCH-PUSH TO OPERATE".
- ⑥ 4-POLE 120 VAC COIL LATCHING RELAY. CONTACTS SHOWN IN "UNLATCHED" POSITION.
- ⑦ 120 VAC, SELF-RESETTING, EMERGENCY GAS SHUT OFF VALVE (VALVE PROVIDED BY MECHANICAL).
- ⑧ CIRCUIT BREAKER SHUNT TRIP. THE SHUNT TRIP PROVIDES REMOTE CONTROLLED TRIPPING OF THE CIRCUIT BREAKER. THE SHUNT TRIP CONSISTS OF AN INTERMITTENT RATED 120 VAC SOLENOID WITH A TRIP PLUNGER AND CUTOFF SWITCH.
- ⑨ FIELD MOUNTED DEVICE.
- ⑩ NEMA 12 ENCLOSURE, SIZE AS REQUIRED
- ⑪ 120 VAC, SELF-RESETTING, EMERGENCY PROPANE SHUT-OFF VALVE (VALVE PROVIDED BY MECHANICAL).

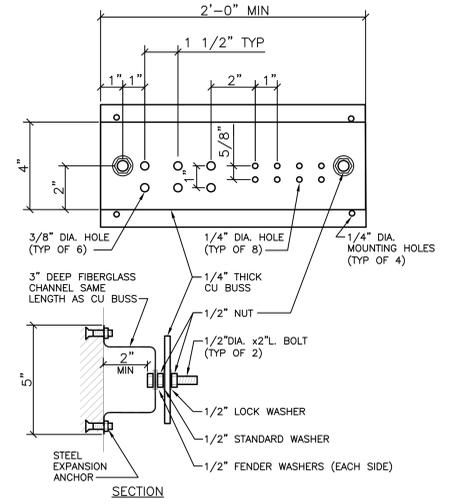
NAME PLATE SCHEDULE	
NP-1	ON-OFF POWER ON
NP-2	POWER OFF
NP-3	BOILERS OFF
NP-4	BOILER RESET SWITCH - PUSH TO OPERATE
NP-5	BOILER KILL SWITCH - PUSH TO OPERATE
NP-6	BOILER EMERGENCY SHUT DOWN PANEL
NP-7	TO RESTART BOILERS: 1. PRESS BOILER RESET SWITCH 2. TURN ON BOILER CIRCUIT BREAKERS IN MAIN SWITCHBOARD 'MSB-2' 3. TURN ON FUEL OIL PUMP CIRCUIT BREAKERS IN PANEL 'HA'



REVISED ATS LOAD BUS TERMINATION DETAIL

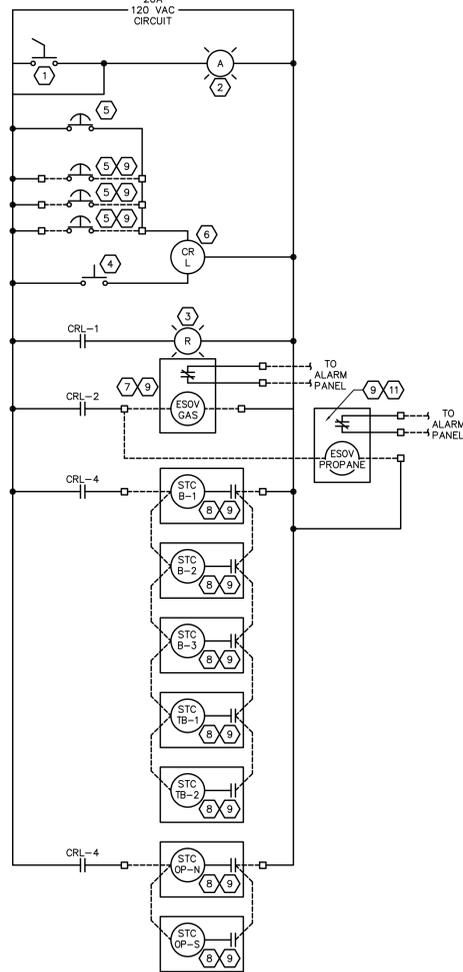


EXISTING ATS LOAD BUS TERMINATION DETAIL

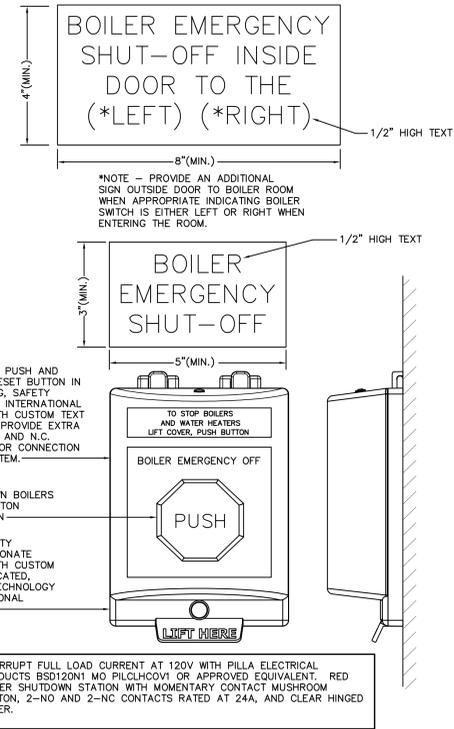


- GENERAL NOTES**
 1. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
 2. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
 3. HOLES MAY BE ADDED IF REQUIRED.

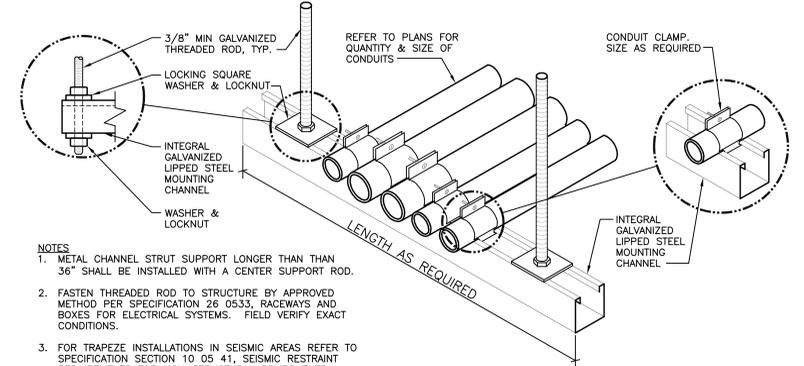
GROUNDING BAR DETAIL



BOILER SHUT DOWN PANEL DETAILS
NO SCALE



TYPICAL BOILER EMERGENCY OFF PUSHBUTTON
NO SCALE



- NOTES**
 1. METAL CHANNEL STRUT SUPPORT LONGER THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
 2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26.0533, RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
 3. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 10.05.41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

CONDUIT TRAPEZE MOUNTING DETAIL

CONSULTANTS:

ARCHITECT/ENGINEERS:

FARRIS ENGINEERING
 OMAHA | LINCOLN | SIDNEY | COLORADO SPRINGS
 farris-usa.com
 FEI #202013

CLH PROJECT
 Calvin L. Hinz
 3705 North 200th Street
 Elkhorn, Nebraska 68022
 (402) 291-6941

Drawing Title
ELECTRICAL - DETAILS

Project Title
OMAHA VAMC - CORRECT MECHANICAL DEFICIENCIES

Project Number
 636-19-301

Building Number
 2

Drawing Number
 2E501

Dwg. of X

Office of
 Construction
 and Facilities
 Management

Department of
 Veterans Affairs

100% CD SUBMITTAL

NEW PANEL HA

277/480 VOLT, 3 PHASE, 4 WIRE
200 AMP M.L.O.
SURFACE MOUNTED

AIC RATING: 65,000A

CCT NO	LOAD V.A.	LET S	LOAD DESCRIPTION	R E M	AMP SIZE	Ø	AMP SIZE	R E M	LOAD DESCRIPTION	LET S	LOAD V.A.	CCT NO
1	3823		OIL PUMP OP-N 3HP	S	3	20	A 20 3		CONDENSATE PUMP 2-CTP1 5HP		6055	2
3												4
5												6
7	3823		OIL PUMP OPS 3HP	S	3	20	A 20 3		CONDENSATE PUMP 2-CTP2 5HP		6055	8
9												10
11												12
13			SPARE		3	20	A 20 3		SPARE			14
15												16
17												18
19	880 X		BOILER RM EAST/WEST LIGHTS		1	15	A 20 1		XFMR RM LIGHTS			20
21	587 X		BOILER RM LOW CENTER LIGHTS		1	15	B 20 1		BOILER RM CENTER LIGHTS	X	574	22
23												24
25												26
27												28
29	2700		RADIATOR FAN 1		3	20	C 20 3		RADIATOR PUMP		2700	30
31												32
33												34
35	2700		RADIATOR FAN 2		3	20	C 20 3		ROOF SUPPLY/EXHAUST FAN		8764	36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60

REMARKS:
S = PROVIDE WITH 120 VAC SHUNT TRIP COIL.

NEW PANEL LA

120/208 VOLT, 3 PHASE, 4 WIRE
250 AMP MAIN BREAKER
SURFACE MOUNTED

AIC RATING: 22,000A

CCT NO	LOAD V.A.	LET S	LOAD DESCRIPTION	R E M	AMP SIZE	Ø	AMP SIZE	R E M	LOAD DESCRIPTION	LET S	LOAD V.A.	CCT NO
1			PANEL 'P-101'		3	100	A 20 1		DA-1 CONTROL PANEL			2
3									DA-2 CONTROL PANEL			4
5									GENERATOR BATTERY CHARGER			6
7			PANEL 'P-105' NORTH GARAGE		3	60	A 20 1		GENERATOR BLOCK HEATER			8
9									GENERATOR DAY TANK			10
11									BOILER RLL PANEL			12
13			PANEL 'P-106'		3	60	A 20 1		SPARE			14
15									SPARE			16
17									SPARE			18
19			RECREATION BLDG.		2	50	A 20 1		SPARE			20
21									SPARE			22
23			PANEL 'LB'		3	100	C 20 1		SPARE			24
25									SPACE ONLY			26
27									SPACE ONLY			28
29									SPACE ONLY			30
31									SPACE ONLY			32
33									SPACE ONLY			34
35									SPACE ONLY			36
37									SPACE ONLY			38
39									SPACE ONLY			40
41									SPACE ONLY			42

REMARKS:
E = UNDEFINED LOAD PREVIOUSLY SERVED FROM PANEL 'P-103' VIA 30 KVA TRANSFORMER.

NEW PANEL LB

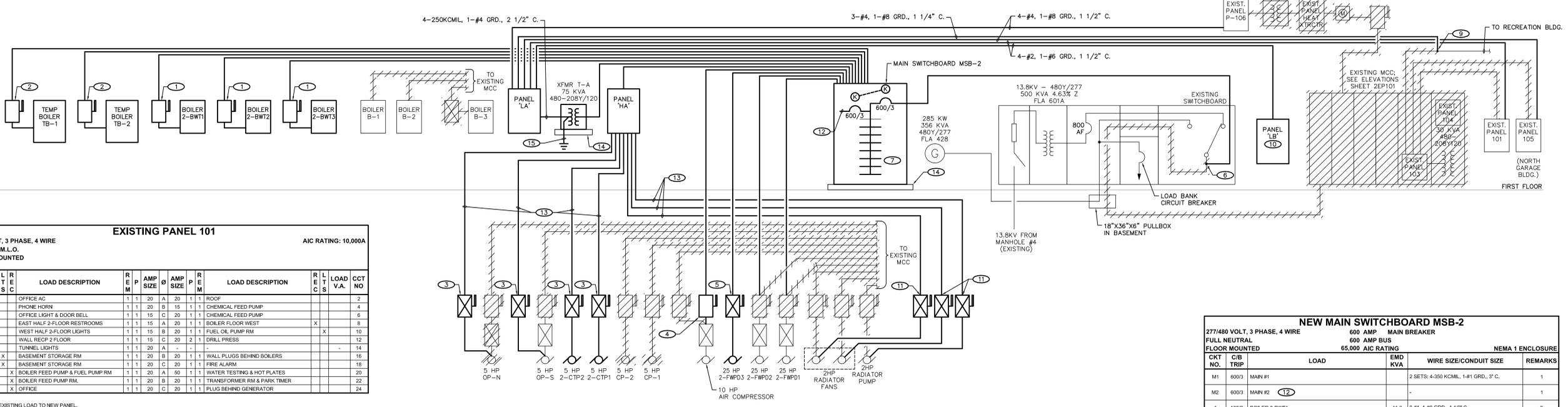
120/208 VOLT, 3 PHASE, 4 WIRE
100 AMP M.L.O.
SURFACE MOUNTED

AIC RATING: 22,000A

CCT NO	LOAD V.A.	LET S	LOAD DESCRIPTION	R E M	AMP SIZE	Ø	AMP SIZE	R E M	LOAD DESCRIPTION	LET S	LOAD V.A.	CCT NO
1			MAIN GAS VALVE		1	20	A 30 1		COLUMN & EAST BOILER RM RECEPTS.			2
3			UNDEFINED LOAD		E	1	20	B 30 2	UNDEFINED LOAD			4
5			UNDEFINED LOAD		E	1	20	C - -	UNDEFINED LOAD			6
7			UNDEFINED LOAD		E	1	20	A 30 2	UNDEFINED LOAD			8
9			NORTH OUTLETS		1	20	B 20 1		OUTSIDE LIGHTS			10
11			CONDENSATE VALVE		1	20	C 50 3		WELDER OUTLET			12
13			UNDEFINED LOAD		E	1	20	A - -	UNDEFINED LOAD			14
15			EAST TANK FARM LIGHTS		1	20	B - -		UNDEFINED LOAD			16
17			WEST TANK FARM LIGHTS		1	20	C 20 1		WORKBENCH LIGHT/RECEPT.			18
19			COMBUSTIBLE GAS DETECTION PANEL		1	20	A 20 1		TANK FARM LIGHTS			20
21			SPARE		1	20	B 20 1		OUTSIDE LIGHTS			22
23			SPARE		1	20	C 50 3		OUTSIDE NORTH RECEPT.			24
25			SPARE		1	20	A 20 1		RECEPT. NE CORNER			26
27			SPARE		1	20	B 20 1		SPARE			28
29			SPARE		1	20	C 20 1		SPARE			30
31			SPACE ONLY		A				SPACE ONLY			32
33			SPACE ONLY		B				SPACE ONLY			34
35			SPACE ONLY		C				SPACE ONLY			36
37			SPACE ONLY		A				SPACE ONLY			38
39			SPACE ONLY		B				SPACE ONLY			40
41			SPACE ONLY		C				SPACE ONLY			42

REMARKS:
G = PROVIDE GFI TYPE CIRCUIT BREAKER.
E = IDENTIFY EXISTING LOAD AND MARK IN SCHEDULE. LOAD RELOCATED FROM EXISTING PANEL '103'.

- ### ELECTRICAL KEYNOTES: (C)
- PROVIDE 100 AMP, 480 VOLT, 3-POLE, FUSIBLE SAFETY SWITCH IN NEMA 1 ENCLOSURE. PROVIDE DUAL ELEMENT, TIME DELAY FUSES PER EQUIPMENT REQUIREMENTS.
 - PROVIDE 200 AMP, 480 VOLT, 3-POLE, FUSIBLE SAFETY SWITCH IN NEMA 3R ENCLOSURE. PROVIDE DUAL ELEMENT, TIME DELAY FUSES PER EQUIPMENT REQUIREMENTS.
 - PROVIDE 480 VOLT, NEMA SIZE 1, FULL VOLTAGE, NON-REVERSING, FUSIBLE COMBINATION STARTER WITH HAND-OFF-AUTO SELECTOR SWITCH, 24 VDC COIL INTERPOSING RELAY (AUTO RUN SIGNAL), RED LED RUNNING PILOT LIGHT, AND 120 VAC CONTROL POWER TRANSFORMER IN NEMA 1 ENCLOSURE.
 - PROVIDE 30 AMP, 480 VOLT, 3-POLE, UNFUSED SAFETY SWITCH IN NEMA 1 ENCLOSURE.
 - PROVIDE VARIABLE FREQUENCY DRIVE. SEE SPECIFICATIONS FOR REQUIREMENTS.
 - SEE ATS LOAD BUS TERMINATION DETAIL FOR REQUIREMENTS.
 - SEE SCHEDULE FOR CONDUCTOR AND CONDUIT SIZE.
 - IF EXISTING PANEL 'P-106' IS LOCATED WHERE SHOWN ON SHEET 2ED202 AT TIME OF CONSTRUCTION, REMOVE PANEL 'P-106' AND RE-FEED 3-20 AMP, 120 VOLT CIRCUITS FROM NEW PANEL 'LA'. IF PANEL HAS BEEN RELOCATED BY OTHER PRIOR TO CONSTRUCTION, PROVIDE NEW FEEDER FROM PANEL 'LA' TO PANEL 'P-106'.
 - PROVIDE CONNECTION TO EXISTING RECREATION BLDG. FEEDER.
 - RELOCATE EXISTING CIRCUITS FROM PANEL 'P-103' TO NEW PANEL 'LB' CIRCUITS TO BE RELOCATED ARE IDENTIFIED BY REMARK 3 IN EXISTING PANEL '103' PANEL SCHEDULE.
 - PROVIDE 480 VOLT, NEMA SIZE 1, FULL VOLTAGE, NON-REVERSING FUSIBLE COMBINATION STARTER WITH HAND-OFF-AUTO SELECTOR SWITCH, RED LED RUNNING PILOT LIGHT, 120 VAC CONTROL POWER TRANSFORMER IN NEMA 3R ENCLOSURE (RADIATOR PUMP STARTER TO HAVE NEMA 1 ENCLOSURE). CONNECT FOR AUTOMATIC OPERATION (NORMALLY OPEN CONTACT) TO GENERATOR CONTROL PANEL.
 - RESERVED FOR FUTURE NEW POWER SOURCE PROVIDED BY OTHERS UNDER SEPARATE CONTRACT.
 - 3-#10, 1-#10 GRD., 3/4" C.
 - PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD. EXTEND PAD 4" BEYOND FRONT AND SIDES OF EQUIPMENT.
 - PROVIDE #6 TO EXISTING GROUNDING ELECTRODE. FIELD VERIFY LOCATION.



EXISTING PANEL 101

120/208 VOLT, 3 PHASE, 4 WIRE
100 AMP M.L.O.
SURFACE MOUNTED

AIC RATING: 10,000A

CCT NO	LOAD V.A.	LET S	LOAD DESCRIPTION	R E M	AMP SIZE	Ø	AMP SIZE	R E M	LOAD DESCRIPTION	LET S	LOAD V.A.	CCT NO
1			OFFICE AC		1	1	20	A 20 1	1	1	1	2
3			PHONE HORN		1	1	20	B 15 1	1	1	1	4
5			OFFICE LIGHT & DOOR BELL		1	1	15	C 20 1	1	1	1	6
7			EAST HALF 2-FLOOR RESTROOMS		1	1	15	A 20 1	1	1	1	8
9			WEST HALF 2-FLOOR LIGHTS		1	1	15	B 20 1	1	1	1	10
11			WALL RECP 2-FLOOR		1	1	15	C 20 2	1	1	1	12
13			TUNNEL LIGHTS		1	1	20	A - -				14
15	X		BASEMENT STORAGE RM		1	1	20	B 20 1	1	1	1	16
17	X		BASEMENT STORAGE RM		1	1	20	C 20 1	1	1	1	18
19	X		BOILER FEED PUMP & FUEL PUMP RM		1	1	20	A 50 1	1	1	1	20
21	X		BOILER FEED PUMP RM		1	1	20	B 20 1	1	1	1	22
23	X		OFFICE		1	1	20	C 20 1	1	1	1	24

REMARKS:
1 = RELOCATE EXISTING LOAD TO NEW PANEL.

EXISTING PANEL 104

277/480 VOLT, 3 PHASE, 4 WIRE
60 AMP M.L.O.
MOUNTED IN MCC

AIC RATING: 14,000A

CCT NO	LOAD V.A.	LET S	LOAD DESCRIPTION	R E M	AMP SIZE	Ø	AMP SIZE	R E M	LOAD DESCRIPTION	LET S	LOAD V.A.	CCT NO
1	X		TRANSFORMER RM.		1	1	20	A	2	FRONT OF BOILER	X	2
3	X		BOILER ROOM MERCURY VAPOR		2	1	20	B	2	BACK OF BOILER	X	4
5	X		SPARE		1	1	20	C		SPARE	X	6
7			SPACE ONLY						SPACE ONLY			8
9			SPACE ONLY						SPACE ONLY			10
11			SPACE ONLY						SPACE ONLY			12

REMARKS:
1 = RELOCATE EXISTING LOAD TO NEW PANEL.
2 = DISCONNECT EXISTING LOAD AND REMOVE ALL ASSOCIATED WIRING/CONDUIT.

EXISTING PANEL 106

120/240 VOLT, 1 PHASE, 3 WIRE
50 AMP MAIN BREAKER
SURFACE MOUNTED

AIC RATING: 10,000A

CCT NO	LOAD V.A.	LET S	LOAD DESCRIPTION	R E M	AMP SIZE	Ø	AMP SIZE	R E M	LOAD DESCRIPTION	LET S	LOAD V.A.	CCT NO
1			MAN		50	2	A 20 1		SPARE			2
3									UNDEFINED LOAD			4
5			SPARE		1	20	A 20 1		SPARE			6
7			UNDEFINED LOAD		1	1	20	B 20 1	SPARE			8
9			UNDEFINED LOAD		1	1	20	A 20 1	SPARE			10
11									SPARE			12

REMARKS:
1 = RELOCATE EXISTING LOAD TO NEW PANEL.

EXISTING PANEL 103

120/208 VOLT, 3 PHASE, 4 WIRE
125 AMP MAIN BREAKER
MOUNTED IN MCC

AIC RATING: 10,000A

CCT NO	LOAD V.A.	LET S	LOAD DESCRIPTION	R E M	AMP SIZE	Ø	AMP SIZE	R E M	LOAD DESCRIPTION	LET S	LOAD V.A.	CCT NO
1			MAIN GAS VALVE		3	1	20	A 20 1	3	COLUMN & EAST BOILER ROOM	X	2
3			GAUGE LIGHTS		2	1	20	B 20 1	2	BOILER MASTER CONTROL RM		4
5			UNDEFINED LOAD		3	1	20	C 20 1	1	GENERATOR BLOCK HEATER		6
7			BOILER #1 CONTROL		2	1	20	A 20 1	3	BOILER #2 CONTROL		8
9			UNDEFINED LOAD		3	1	20	B 20 1	1	GENERATOR BATTERY CHARGER		10
11			UNDEFINED LOAD		3	1	20	C 30 2	3	UNDEFINED LOAD		12
13			NORTH OUTLETS		3	1	20	A - -		OUTSIDE LIGHTS		14
15			CONDENSATE VALVE		3	1	20	C - -		UNDEFINED LOAD		16
17			UNDEFINED LOAD		3	1	20	C - -		UNDEFINED LOAD		18
19			PANEL 105 SHED		1	3	100	A 50 3	1	PANEL 101		20
21												22
23												24
25			RECREATION BLDG.		1	2	50	A 50 3	3	WELDER PLUG		26
27												28
29			SPACE ONLY									30
31			EAST TANK FARM LIGHTS		3	1	20	A 20 1	3	WORK BENCH PLUGLIGHTS		32
33			WEST TANK FARM LIGHTS		3	1	20	B 20 1	2	02 TWIN CENTURY CONTROLS		34
35			DFH-2 DA		1	1	20	C 20 1	3	TANK FARM LIGHTS		36
37			DFH-1 DA		1	1	20	A 20 1	3	OUTSIDE LIGHTS		38
39			SPACE ONLY						2	OUTSIDE NORTH PLUG		40
41			SPACE ONLY						C 20 1	3	PLUG NE CORNER	42

REMARKS:
1 = RELOCATE EXISTING LOAD TO NEW PANEL 'LA'.
2 = DISCONNECT EXISTING LOAD AND REMOVE ALL ASSOCIATED WIRING/CONDUIT.
3 = RELOCATE EXISTING LOAD TO NEW PANEL 'LB'. PROVIDE SCHEDULE TO IDENTIFY ALL LOADS.

NEW MAIN SWITCHBOARD MSB-2

277/480 VOLT, 3 PHASE, 4 WIRE
600 AMP MAIN BREAKER
600 AMP BUS
65,000 AIC RATING
NEMA 1 ENCLOSURE

CCT NO.	CB TRIP	LOAD	EWD KVA	WIRE SIZE/CONDUIT SIZE	REMARKS
M1	600/3	MAIN #1	2	2 SETS: 4-350 KCMIL, 1-#1 GRD., 3" C.	1
M2	600/3	MAIN #2	-	-	1
1	100/3	BOILER 2-BWT1	41.3	3-#1, 1-#6 GRD., 1 1/2" C.	2
2</					

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

- GENERAL NOTES:**
- THESE DRAWINGS ARE DIAGRAMMATIC AND FOR GENERAL IDENTIFICATION OF ASBESTOS-CONTAINING MATERIALS (ACM) AND LEAD-BASED PAINT (LBP) SUBJECT TO REMOVAL OR DISTURBANCE. THEIR ACCURACY IS NOT GUARANTEED. LOCATIONS AND QUANTITIES SHOWN OF ACM AND LBP TO BE REMOVED ARE REPRESENTATIVE BASED ON RECENT AND PREEXISTING SITE SURVEY INFORMATION. THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL MATERIAL LOCATIONS AND REMOVAL QUANTITIES, AND EXISTING SITE CONDITIONS.
 - ASBESTOS REMOVAL IS BEING PERFORMED PURSUANT TO RENOVATION OF THE PROJECT AREAS. REMOVE AND DISPOSE OF ALL ACM IN ACCORDANCE WITH APPLICABLE REGULATIONS, PROJECT SPECIFICATIONS, AND THE APPROVED ASBESTOS HAZARD ABATEMENT PLAN (AHAP). IF SUSPECT ACMs ARE ENCOUNTERED DURING CONSTRUCTION AND DEMOLITION THAT ARE NOT IDENTIFIED ON THE ASBESTOS ABATEMENT DRAWINGS, STOP WORK AND CONTACT THE PROJECT MANAGER AND VPIH.
 - ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, PROJECT SPECIFICATIONS, THE APPROVED WORK PLAN, AND ACCEPTED INDUSTRY PRACTICE. WHEN REQUIREMENTS OVERLAP OR CONFLICT, THE MOST STRINGENT REQUIREMENT SHALL APPLY. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE OWNER, THE OWNER'S CONSULTANTS, AND REGULATORY PERSONNEL.
 - DEMOLITION OF NON-ACM BUILDING MATERIALS MAY BE REQUIRED TO ACCESS REGULATED MATERIALS, INCLUDING, BUT NOT LIMITED TO, CABINETS, RAISED FLOORING, GYPSUM WALLBOARD, EXPANDED METAL OR WOOD LATH AND PLASTER WALLS AND CEILINGS, WALL FRAMING, CARPET, CERAMIC AND VINYL FLOOR COVERINGS, WOOD, ETC. THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF NON-ACM MATERIALS AS NEEDED TO ACCESS REGULATED MATERIALS FOR ABATEMENT, AND FOR COORDINATING THE LIMITS OF DEMOLITION AND ABATEMENT WITH THE GENERAL CONTRACTOR.
 - ALL COSTS ASSOCIATED WITH EXPLORATORY DEMOLITION AND DEMOLITION OF NON-ACM MATERIALS NEEDED TO ACCOMPLISH ABATEMENT SHALL BE INCLUDED IN THE ABATEMENT CONTRACTOR'S LUMP SUM PRICE FOR THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED FOR THIS WORK.

- ASBESTOS NOTES:**
- THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REFER TO THE HAZARDOUS BUILDING MATERIALS INSPECTION REPORT BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORMATION ABOUT ACMs IDENTIFIED IN THE PROJECT AREA.
 - CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WALLS, PIPE CHASES AND ABOVE RIGID CEILINGS. COORDINATE ACCESS WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SOME EXPLORATORY DEMOLITION MAY BE REQUIRED TO DETERMINE IF CONCEALED ACM IS PRESENT.
 - GASKETS AND PACKINGS ARE CONCEALED IN VALVES, EQUIPMENT, STEAM TRAPS, BOILERS AND FLUES AND ARE INACCESSIBLE FOR SAMPLING. GASKETS AND PACKINGS ARE ASSUMED AS ACM UNLESS SAMPLED, ANALYZED, AND DETERMINED TO BE NON-ASBESTOS.
 - ESTABLISH REGULATED AREAS (RA) AND NEGATIVE PRESSURE ENCLOSURES (NPE) AND PERFORM REMOVAL IN ACCORDANCE WITH APPLICABLE SPECIFICATION SECTIONS: SEC 02 82 13-13, GLOVEBAG ASBESTOS ABATEMENT; SEC 02 82 11, TRADITIONAL ASBESTOS ABATEMENT; SEC 02 82 13-19, FINALIZE LIMITS OF REGULATED AREAS, LOCATIONS OF NEGATIVE AIR MACHINES (NAM), PERSONAL DECONTAMINATION FACILITIES (PDF), AND WASTE DECONTAMINATION FACILITIES (WDF) BASED ON SITE CONDITIONS, BEST PRACTICES AND PHASING REQUIREMENTS.
 - ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIREMENTS FOR ACHIEVING FOUR (4) AIR CHANGES PER HOUR AND PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND PLACE NAMS AS NEEDED TO MAXIMIZE AIR MOVEMENT AND PREVENT DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIONS WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND VPIH, IF NEEDED.

- ASBESTOS ABATEMENT PHASING:**
- THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPIH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.
- LEAD-BASED PAINT AND PAINT CONTAINING LEAD:**
- LEAD-BASED PAINT (LBP) ARE PAINTS THAT CONTAIN LEAD ≥1.0 mg/m² or ≥0.5 PERCENT BY WEIGHT. PAINT CONTAINING LEAD (PCL) IS PAINT WITH A DETECTABLE LEVEL OF LEAD. LBP AND PCL ARE KNOWN TO EXIST ON MATERIALS, COMPONENTS, AND SURFACES THAT MAY BE DISTURBED, PENETRATED, REFINISHED, OR DEMOLISHED. PERFORM DEMOLITION OF MATERIALS AND COMPONENTS WITH LBP AND/OR PCL IN ACCORDANCE WITH APPLICABLE REGULATIONS AND THE APPROVED WORK PLAN.
 - FLAKING AND PEELING LBP AND/OR PCL ON SURFACES TO REMAIN SHALL BE REMOVED AND STABILIZED USING METHODS IN ACCORDANCE WITH SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL.
 - REFER TO THE HAZARDOUS BUILDING MATERIALS INSPECTION REPORT BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020, FOR INFORMATION CONCERNING THE PRESENCE OF LBP AND PCL IN THE PROJECT AREAS.

SUMMARY OF ASBESTOS CONTAINING MATERIALS			
DESCRIPTION	LOCATION	EST. QTY.	HATCHING
INTERIOR & EXTERIOR CAULK - COLOR; GRAY & BLACK	BLDG 2 BOILER RM WINDOWS	900 LF	
PIPING THERMAL SYSTEMS INSULATION - COLOR; YELLOW & RED	BLDG 2 BOILER RM	1110 FT ²	
PIPING THERMAL SYSTEMS FITTINGS - COLOR; YELLOW, GREEN & RED	BLDG 2 BOILER RM	85 EACH	
THERMAL SYSTEMS FLUE - COLOR; SILVER	BLDG 2 BOILER RM	1500 SF	
GASKETS / PACKING	BLDG 1 & 2 CONCEALED INSIDE BOILER & EQUIPMENT	500 EACH	NONE
DEFECTIVE TRAPS	BUILDING 1	AS NEEDED	NONE

SUMMARY OF LEAD-BASED PAINT MATERIALS			
DESCRIPTION	CONDITION	EST. QTY.	HATCHING OR KEYNOTE
BUILDING 2 - PAINT ON EXTERIOR OF BOILER 1 (GRAY)	POOR	2000 SQ FT	
BUILDING 2 - PAINT ON PIPES OF BOILER ROOM (ORANGE)	POOR	200 LF	
BUILDING 2 - PAINT ON EXTERIOR OF BOILERS 1 AND 2 (BLUE)	POOR	800 SQ FT	
BUILDING 2 - END EDGE STRIP OF BOILERS 1 AND 2 (GRAY)	POOR	50 LF	
BUILDING 2 - SEAM STRIP OF BOILERS 1 AND 2 (GRAY)	POOR	120 LF	
BUILDING 2 - PAINT ON PIPES (YELLOW) SUBGRADE OF BOILER RM	POOR	500 LF	
BUILDING 2 - PAINT ON PIPES (GREEN) SUBGRADE OF BOILER RM	POOR	50 LF	
BUILDING 2 - VALVE UNDER BOILER 3 PAINTED BLACK	POOR	5 EACH	



Revisions	Date

CONSULTANTS:

AMI ENVIRONMENTAL
 AMI ENVIRONMENTAL
 8802 SOUTH 135TH STREET,
 SUITE 100
 OMAHA, NEBRASKA, 68138
 PH: (402) 397-3313

ARCHITECT/ENGINEERS:

FARRIS ENGINEERING
 OMAHA | LINCOLN | SIDNEY | COLORADO SPRINGS
 farris-usa.com
 FEI #: 182047

CLH PROJECT
 3705 North 200th Street
 Elkhorn, Nebraska 68022
 (402) 291-6941

Drawing Title
BUILDING 2 HAZARDOUS MATERIALS SUMMARY

Approved Project Director

Project Title
VAMC OMAHA - CORRECT MECHANICAL DEFICIENCIES

Project Number
636-19-301

Building Numbers

Location
 OMAHA, NE

Date
 05-14-2021

Checked
 W/MSC

Drawn
 M/MEET

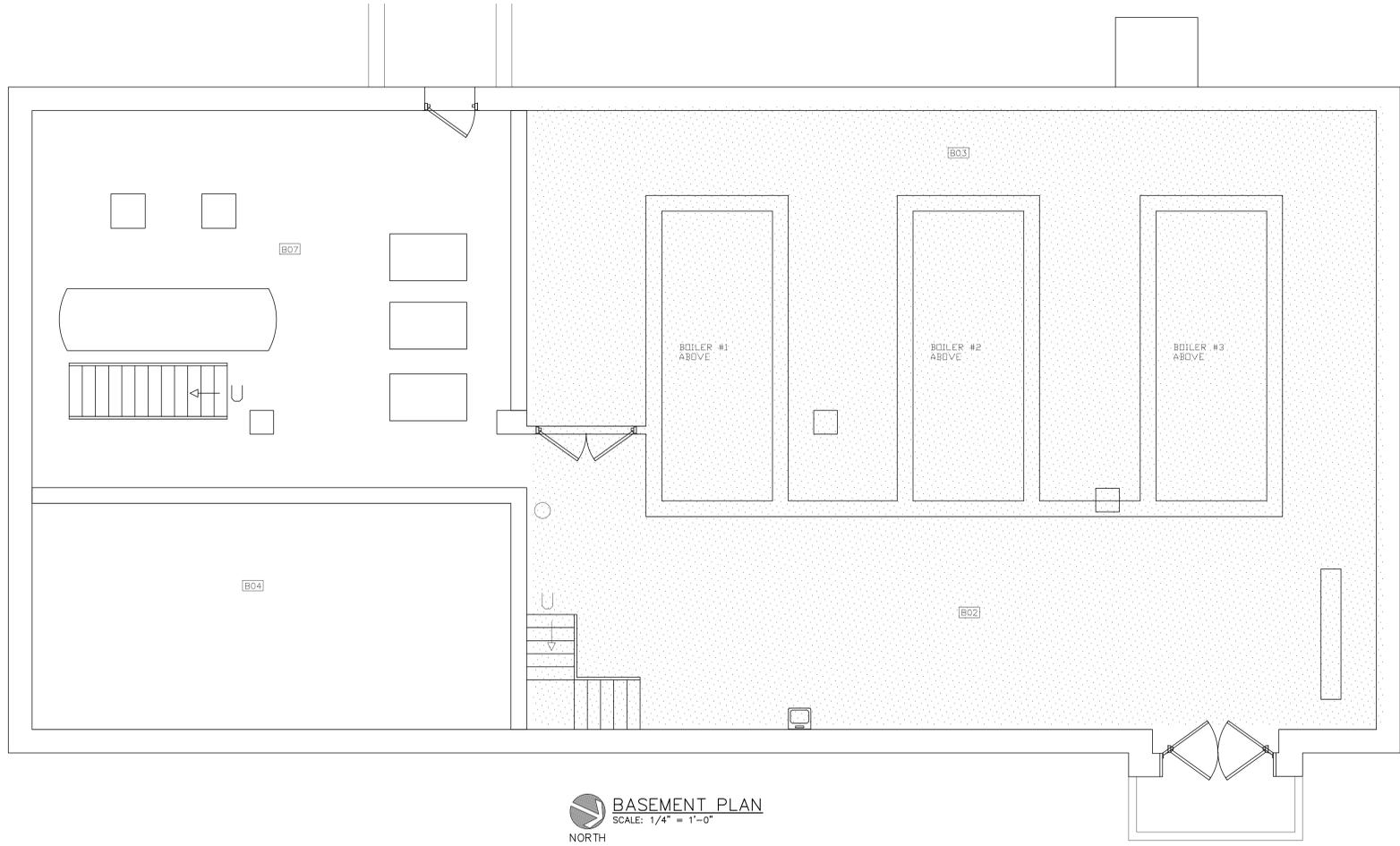
Drawing Number
HA-100

Dwg of

Office of Construction and Facilities Management

Department of Veterans Affairs

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one eighth inch = one foot



BASEMENT PLAN
 SCALE: 1/4" = 1'-0"
 NORTH

- BUILDING 1 AND 2 ASBESTOS NOTES:**
1. THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REFER TO THE HAZARDOUS BUILDING MATERIALS INSPECTION REPORT BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORMATION ABOUT ACM'S IDENTIFIED IN THE PROJECT AREA.
 2. ESTABLISH REGULATED AREA (MINOR DECONTAMINATION AREA) AND REMOVE ACM WINDOW CAULK IN BUILDING 2 BOILER ROOM IN ACCORDANCE WITH CLASS II REMOVAL SECTIONS 02 82 13-31.
 3. ESTABLISH REGULATED AREA AND REMOVE THERMAL SYSTEM INSULATION (TSI) COVERED PIPE AND FITTINGS USING GLOVEBAG ABATEMENT METHODS AS REQUIRED BY SECTION 02 82 13-13. FOR SECTIONS OF PIPE TO BE DEMOLISHED, WRAP AND CUT METHODS MAY BE USED ONLY IF APPROVED BY THE GENERAL CONTRACTOR. USE GLOVEBAG ABATEMENT METHODS TO REMOVE ACM THAT REMAINS IN WALL PENETRATIONS. WHEN GLOVEBAG METHODS ARE NOT FEASIBLE, USE FULL CONTAINMENT AND ISOLATION PROCEDURES (MAJOR DECONTAMINATION AREAS) IN ACCORDANCE WITH SECTION 02 82 11. TRADITIONAL ASBESTOS ABATEMENT.
 4. GASKETS/PACKINGS ARE PRESENT IN PIPE VALVES, PUMPS, BOILERS AND EQUIPMENT WITHIN THE INSPECTION AREA. GASKETS/PACKINGS ARE CONCEALED AND UNABLE TO BE SAMPLED. GASKETS/PACKINGS ARE ASSUMED AS ACM UNLESS SAMPLED, ANALYZED, AND FOUND AS NON-ACM.
 WHEN GLOVEBAG METHODS ARE NOT FEASIBLE, USE FULL CONTAINMENT AND ISOLATION PROCEDURES (MAJOR DECONTAMINATION AREAS) IN ACCORDANCE WITH SECTION 02 82 11. TRADITIONAL ASBESTOS ABATEMENT.
 5. CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WALLS, PIPE CHASES AND ABOVE RIGID CEILINGS. COORDINATE ACCESS WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SOME EXPLORATORY DEMOLITION MAY BE REQUIRED TO DETERMINE IF CONCEALED ACM IS PRESENT.
 6. ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIREMENTS FOR ACHIEVING FOUR (4) AIR CHANGES PER HOUR AND PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND PLACE NAMS AS NEEDED TO MAXIMIZE AIR MOVEMENT AND PREVENT DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIONS WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND VPH, IF NEEDED.
 7. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.

- ASBESTOS ABATEMENT PHASING:**
1. THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.

SUMMARY OF ASBESTOS CONTAINING MATERIALS			
DESCRIPTION	LOCATION	EST. QTY.	HATCHING
INTERIOR & EXTERIOR CAULK - COLOR: GRAY & BLACK	BLDG 2 BOILER RM WINDOWS	900 LF	
PIPING THERMAL SYSTEMS INSULATION - COLOR: YELLOW & RED	BLDG 2 BOILER RM	1110 FT ²	
PIPING THERMAL SYSTEMS FITTINGS - COLOR: YELLOW, GREEN & RED	BLDG 2 BOILER RM	85 EACH	
THERMAL SYSTEMS FLUE - COLOR: SILVER	BLDG 2 BOILER RM	1500 SF	
GASKETS / PACKING	BLDG 1 & 2 CONCEALED INSIDE BOILER & EQUIPMENT	500 EACH	NONE
DEFECTIVE TRAPS	BUILDING 1	AS NEEDED	NONE

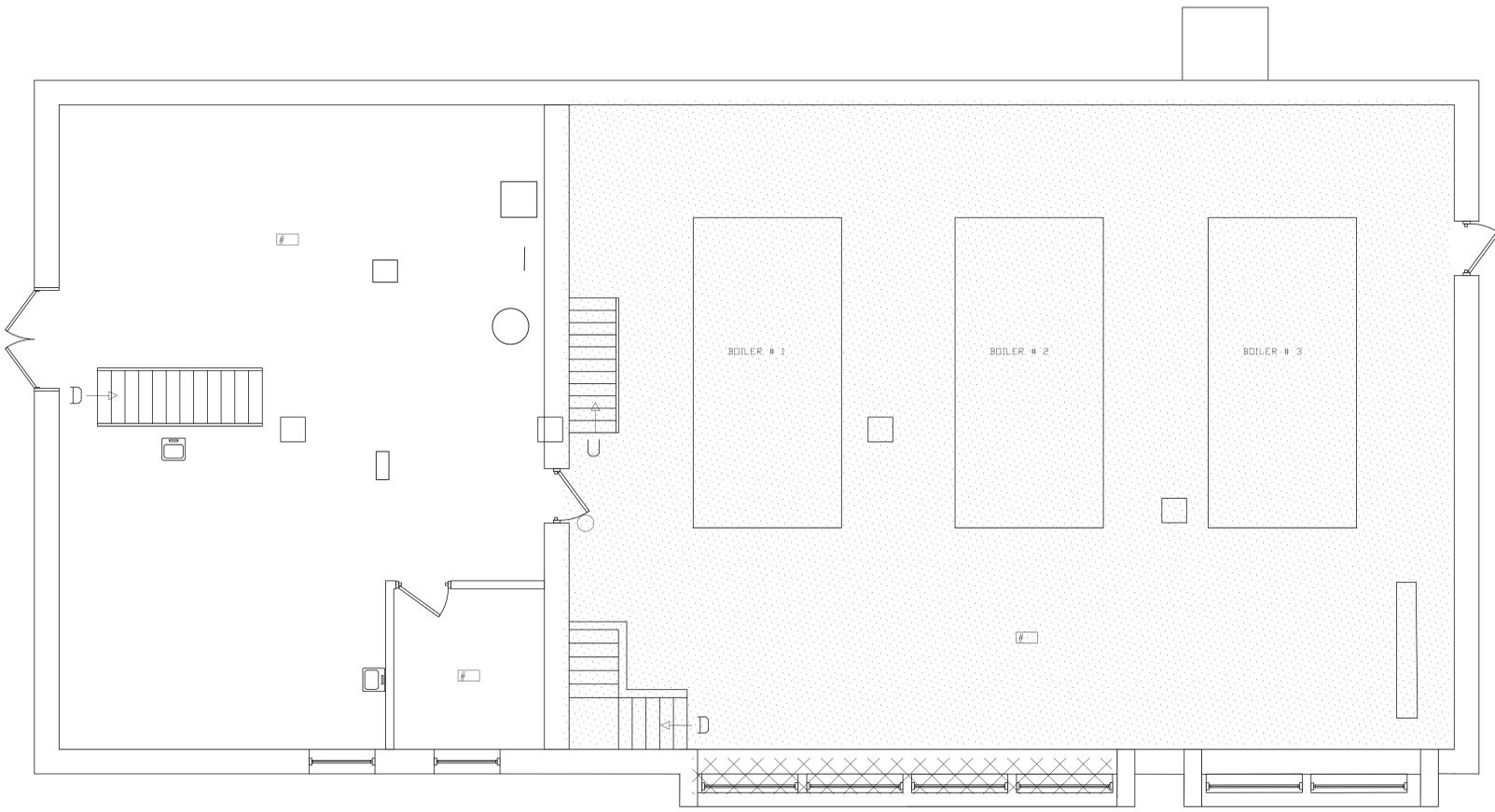
100% CD SUBMITTAL

KEYPLAN

PLAN NORTH ACTUAL NORTH

CONSULTANTS: AMI ENVIRONMENTAL 8802 SOUTH 135TH STREET, SUITE 100 OMAHA, NEBRASKA, 68138 PH: (402) 397-3313	ARCHITECT/ENGINEERS: FARRIS ENGINEERING OMAHA LINCOLN SIDNEY COLORADO SPRINGS farris-usa.com FEI #: 182047 <small>This document and the information contained may not be reproduced or excerpted from without the express written permission of Farris Engineering, Inc. Unauthorized copying, disclosure or construction use are prohibited by the copyright law.</small>	 Calvin L. Hinz 3705 North 200th Street Elkhorn, Nebraska 68022 (402) 291-6941 CLH PROJECT NO: 18-013	Drawing Title BUILDING 2 HAZARDOUS MATERIALS ASBESTOS BASEMENT PLAN	Project Title VAMC OMAHA - CORRECT MECHANICAL DEFICIENCIES	Project Number 636-19-301	Office of Construction and Facilities Management
			Approved Project Director	Location OMAHA, NE	Drawing Number HA-101	

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



FIRST FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 NORTH

- BUILDING 1 AND 2 ASBESTOS NOTES:**
- THE PROJECT AREA WAS RECENTLY SURVEYED FOR ACM. REFER TO THE HAZARDOUS BUILDING MATERIALS INSPECTION REPORT BY AMI ENVIRONMENTAL, DATED AUGUST 27, 2020 FOR MORE INFORMATION ABOUT ACM'S IDENTIFIED IN THE PROJECT AREA.
 - ESTABLISH REGULATED AREA (MINOR DECONTAMINATION AREA) AND REMOVE ACM WINDOW CAULK IN BUILDING 2 BOILER ROOM IN ACCORDANCE WITH CLASS II REMOVAL SECTIONS 02 82 13-31.
 - ESTABLISH REGULATED AREA AND REMOVE THERMAL SYSTEM INSULATION (TSI) COVERED PIPE AND FITTINGS USING GLOBEBAG ABATEMENT METHODS AS REQUIRED BY SECTION 02 82 13-13. FOR SECTIONS OF PIPE TO BE DEMOLISHED, WRAP AND CUT METHODS MAY BE USED ONLY IF APPROVED BY THE GENERAL CONTRACTOR. USE GLOBEBAG ABATEMENT METHODS TO REMOVE ACM THAT REMAINS IN WALL PENETRATIONS. WHEN GLOBEBAG METHODS ARE NOT FEASIBLE, USE FULL CONTAINMENT AND ISOLATION PROCEDURES (MAJOR DECONTAMINATION AREAS) IN ACCORDANCE WITH SECTION 02 82 11, TRADITIONAL ASBESTOS ABATEMENT.
 - GASKETS/PACKINGS ARE PRESENT IN PIPE VALVES, PUMPS, BOILERS AND EQUIPMENT WITHIN THE INSPECTION AREA. GASKETS/PACKINGS ARE CONCEALED AND UNABLE TO BE SAMPLED. GASKETS/PACKINGS ARE ASSUMED AS ACM UNLESS SAMPLED, ANALYZED, AND FOUND AS NON-ACM.
 WHEN GLOBEBAG METHODS ARE NOT FEASIBLE, USE FULL CONTAINMENT AND ISOLATION PROCEDURES (MAJOR DECONTAMINATION AREAS) IN ACCORDANCE WITH SECTION 02 82 11, TRADITIONAL ASBESTOS ABATEMENT.
 - CONCEALED ACM PIPE INSULATION (TSI) MAY EXIST WITHIN WALLS, PIPE CHASES AND ABOVE RIGID CEILINGS. COORDINATE ACCESS WITH DEMOLITION DRAWINGS AND THE GENERAL CONTRACTOR. SOME EXPLORATORY DEMOLITION MAY BE REQUIRED TO DETERMINE IF CONCEALED ACM IS PRESENT.
 - ASSUME 50% EFFICIENCY WHEN CALCULATING NAM REQUIREMENTS FOR ACHIEVING FOUR (4) AIR CHANGES PER HOUR AND PROVIDED GREATER THAN -0.02" WCG PRESSURE. CONFIGURE AND PLACE NAMS AS NEEDED TO MAXIMIZE AIR MOVEMENT AND PREVENT DEAD AIR SPACE. COORDINATE NEGATIVE AIR DISCHARGE LOCATIONS WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND VPH, IF NEEDED.
 - THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.

ASBESTOS ABATEMENT PHASING:

- THE ABATEMENT CONTRACTOR SHALL WORK CLOSELY WITH THE GENERAL CONTRACTOR, CONTRACTING OFFICER, OWNER OR OWNER'S REPRESENTATIVE, AND/OR THE VPH TO COORDINATE REMOVAL OF ACM IN ACCORDANCE WITH PROJECT SCHEDULING, SEQUENCING, AND PHASING REQUIREMENTS. SOME AFTER HOURS AND WEEK-END WORK MAY BE REQUIRED. PHASING IS SUBJECT TO CHANGE TO ACCOMMODATE SITE CONDITIONS AND FACILITY OPERATIONS.

SUMMARY OF ASBESTOS CONTAINING MATERIALS			
DESCRIPTION	LOCATION	EST. QTY.	HATCHING
INTERIOR & EXTERIOR CAULK - COLOR: GRAY & BLACK	BLDG 2 BOILER RM WINDOWS	900 LF	
PIPING THERMAL SYSTEMS INSULATION - COLOR: YELLOW & RED	BLDG 2 BOILER RM	1110 FT ²	
PIPING THERMAL SYSTEMS FITTINGS - COLOR: YELLOW, GREEN & RED	BLDG 2 BOILER RM	85 EACH	
THERMAL SYSTEMS FLUE - COLOR: SILVER	BLDG 2 BOILER RM	1500 SF	
GASKETS / PACKING	BLDG 1 & 2 CONCEALED INSIDE BOILER & EQUIPMENT	500 EACH	NONE
DEFECTIVE TRAPS	BUILDING 1	AS NEEDED	NONE



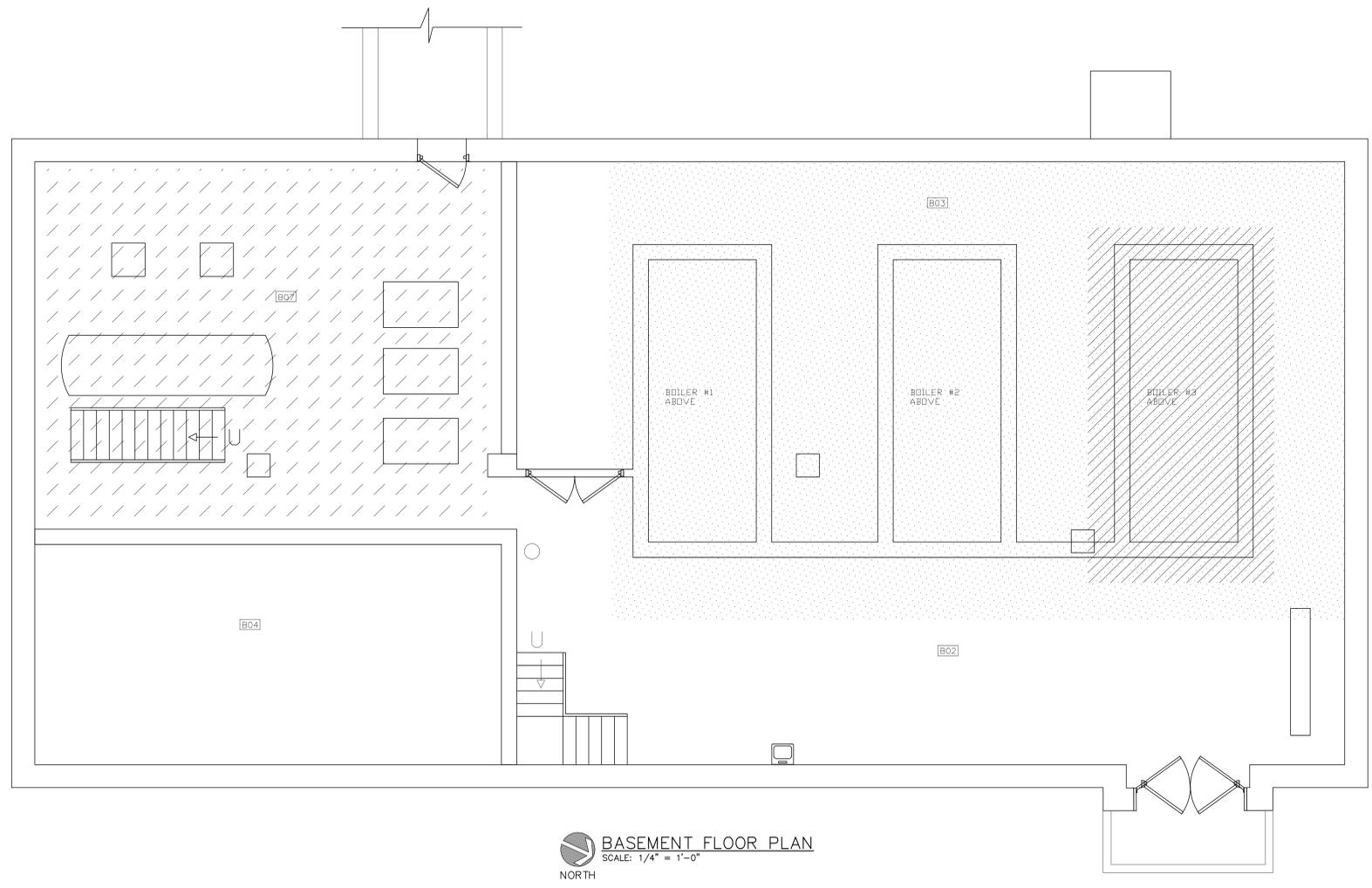
KEYPLAN
 100% CD SUBMITTAL

CONSULTANTS: AMI ENVIRONMENTAL 8802 SOUTH 135TH STREET, SUITE 100 OMAHA, NEBRASKA, 68138 PH: (402) 397-3313	ARCHITECT/ENGINEERS: FARRIS ENGINEERING OMAHA LINCOLN SIDNEY COLORADO SPRINGS farris-usa.com FEI #: 182047 <small>This document and the information contained may not be reproduced or excerpted from without the express written permission of Farris Engineering, Inc. Unauthorized copying, disclosure or construction use are prohibited by the copyright law.</small>	 Calvin L. Hinz 3705 North 200th Street Elkhorn, Nebraska 68022 (402) 291-6941	Drawing Title BUILDING 2 HAZARDOUS MATERIALS ASBESTOS FIRST FLOOR PLAN	Project Title VAMC OMAHA - CORRECT MECHANICAL DEFICIENCIES	Project Number 636-19-301	Office of Construction and Facilities Management
			Approved Project Director	Location OMAHA, NE	Drawing Number HA-102	
Revisions	Date	Date 05-14-2021	Checked WHC	Drawn MET	Dwg. of	

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

LEAD NOTES:

- LBP IS KNOWN TO EXIST ON MATERIALS, COMPONENTS, AND SURFACES THAT MAY BE DISTURBED, PENETRATED, REFINISHED, OR DEMOLISHED. PERFORM DEMOLITION OF MATERIALS AND COMPONENTS WITH LBP AND/OR PCL IN ACCORDANCE WITH APPLICABLE REGULATIONS, SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL AND THE APPROVED WORK PLAN.
- CONCEALED LBP MAY BE PRESENT ON SURFACES BEHIND WALLS AND MAY BE IMPACTED FOR PENETRATIONS, OR WALL DEMOLITION. LBP DUST MUST BE CONTROLLED ACCORDING TO 29 CFR 1926.62. PERFORM CLEANUP AND DISPOSAL OF LBP DUST AND DEBRIS IN ACCORDANCE WITH SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL.



BASEMENT FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 NORTH

SUMMARY OF LEAD-BASED PAINT MATERIALS			
DESCRIPTION	CONDITION	EST. QTY.	HATCHING OR KEYNOTE
BUILDING 2 - PAINT ON PIPES (YELLOW) BASEMENT OF BOILER RM	POOR	500 LF	[Dotted Hatching]
BUILDING 2 - PAINT ON PIPES (GREEN) BASEMENT OF BOILER RM	POOR	50 LF	[Diagonal Hatching]
BUILDING 2 - VALVE UNDER BOILER 3 PAINTED BLACK	POOR	5 EACH	[Cross-hatched Hatching]

100% CD SUBMITTAL

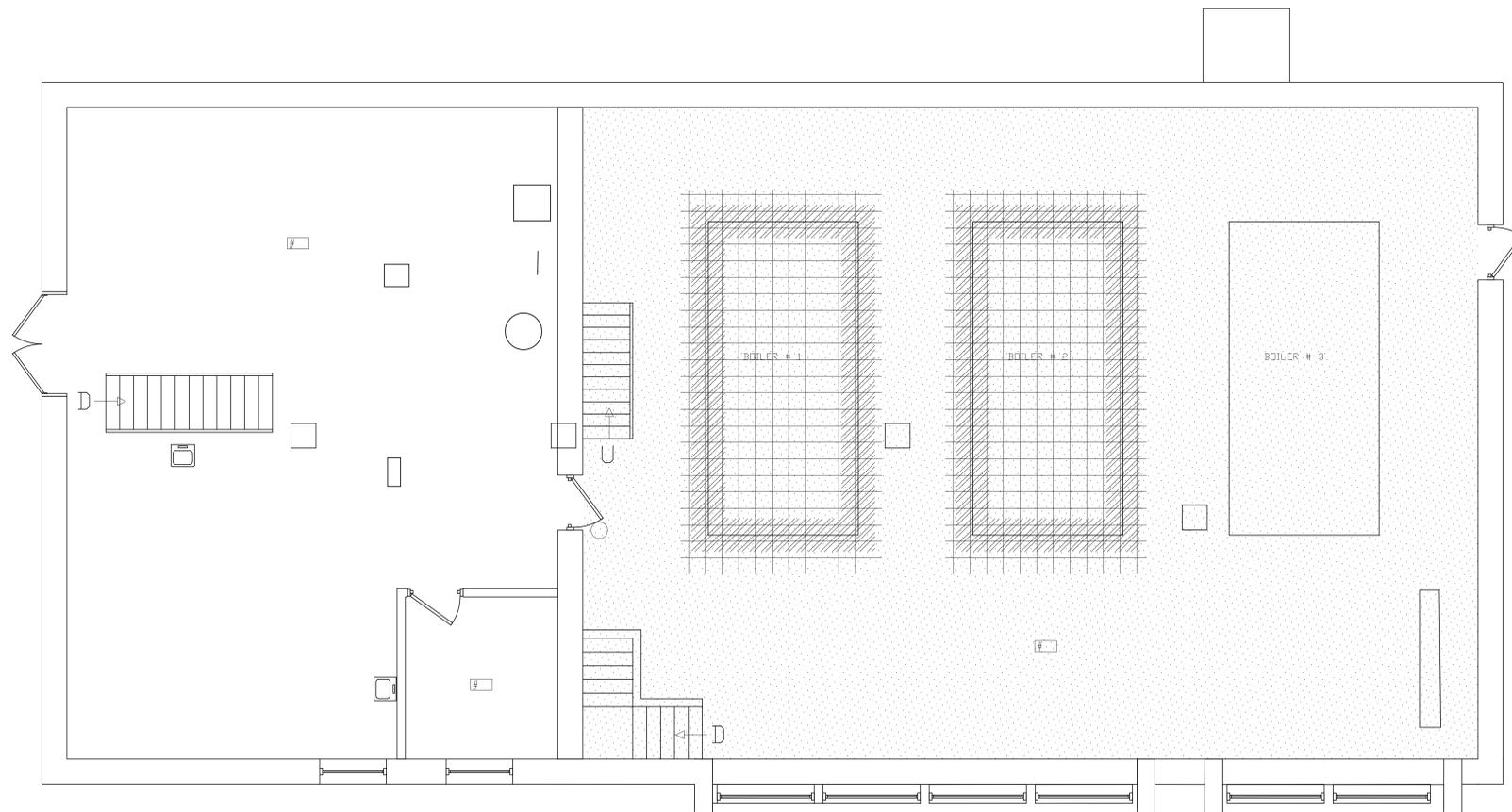
KEYPLAN

CONSULTANTS: AMI ENVIRONMENTAL 8802 SOUTH 135TH STREET, SUITE 100 OMAHA, NEBRASKA, 68138 PH: (402) 397-3313	ARCHITECT/ENGINEERS: FARRIS ENGINEERING OMAHA LINCOLN SIDNEY COLORADO SPRINGS farris-usa.com FEI #: 182047 <small>This document and the information contained may not be reproduced or excerpted from without the express written permission of Farris Engineering, Inc. Unauthorized copying, disclosure or construction use are prohibited by the copyright law.</small>	 Calvin L. Hinz ARCHITECTS, PC 3705 North 200th Street Elkhorn, Nebraska 68022 (402) 291-6941	Drawing Title BUILDING 2 HAZARDOUS MATERIALS LEAD BASED PAINT BASEMENT PLAN	Project Title VAMC OMAHA - CORRECT MECHANICAL DEFICIENCIES	Project Number 636-19-301	Office of Construction and Facilities Management
			Approved Project Director	Location OMAHA, NE	Drawing Number HA-103	

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

LEAD NOTES:

- LBP IS KNOWN TO EXIST ON MATERIALS, COMPONENTS, AND SURFACES THAT MAY BE DISTURBED, PENETRATED, REFINISHED, OR DEMOLISHED. PERFORM DEMOLITION OF MATERIALS AND COMPONENTS WITH LBP AND/OR PCL IN ACCORDANCE WITH APPLICABLE REGULATIONS, SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL AND THE APPROVED WORK PLAN.
- CONCEALED LBP MAY BE PRESENT ON SURFACES BEHIND WALLS AND MAY BE IMPACTED FOR PENETRATIONS, OR WALL DEMOLITION. LBP DUST MUST BE CONTROLLED ACCORDING TO 29 CFR 1926.62. PERFORM CLEANUP AND DISPOSAL OF LBP DUST AND DEBRIS IN ACCORDANCE WITH SECTION 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL.



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"
NORTH

SUMMARY OF LEAD-BASED PAINT MATERIALS			
DESCRIPTION	CONDITION	EST. QTY.	HATCHING OR KEYNOTE
BUILDING 2 - PAINT ON EXTERIOR OF BOILER 1 (GRAY)	POOR	2000 SQ FT	[Hatching]
BUILDING 2 - PAINT ON PIPES OF BOILER ROOM (ORANGE)	POOR	200 LF	[Hatching]
BUILDING 2 - PAINT ON EXTERIOR OF BOILERS 1 AND 2 (BLUE)	POOR	800 SQ FT	[Hatching]
BUILDING 2 - END EDGE STRIP OF BOILERS 1 AND 2 (GRAY)	POOR	50 LF	[Hatching]
BUILDING 2 - SEAM STRIP OF BOILERS 1 AND 2 (GRAY)	POOR	120 LF	[Hatching]

PLAN NORTH ACTUAL NORTH

KEYPLAN

100% CD SUBMITTAL

Revisions Date	CONSULTANTS: AMI ENVIRONMENTAL AMI ENVIRONMENTAL 8802 SOUTH 135TH STREET, SUITE 100 OMAHA, NEBRASKA, 68138 PH: (402) 397-3313	ARCHITECT/ENGINEERS: FARRIS ENGINEERING OMAHA LINCOLN SIDNEY COLORADO SPRINGS farris-usa.com FEI #: 182047 <small>This document and the information contained may not be reproduced or excerpted from without the express written permission of Farris Engineering, Inc. Unauthorized copying, disclosure or construction use are prohibited by the copyright law.</small>	 CLH PROJECT 3705 North 200th Street Elkhorn, Nebraska 68022 (402) 291-6941 <small>NO: 18-013</small>	Drawing Title BUILDING 2 HAZARDOUS MATERIALS LEAD BASED PAINT FIRST FLOOR PLAN	Project Title VAMC OMAHA - CORRECT MECHANICAL DEFICIENCIES	Project Number 636-19-301	Office of Construction and Facilities Management
	Approved Project Director	Location OMAHA, NE	Drawing Number HA-104	Date 05-14-2021	Checked WHC	Drawn MET	