COMPONENT OR UNIT OF A PRODUCT, SYSTEM OR SERVICE. THE CONTRACTOR FURTHER AGREES THAT, AS PART O ITS BID, IT MUST FURNISH AND INSTALL EVERY LENGTH, SEGMENT, PIECE, PART, COMPONENT OR UNIT OF A

COMPENSATION FOR ANY LENGTH, SEGMENT, PIECE, PART COMPONENT OR UNIT OF A PRODUCT, SYSTEM OR SERVICE

EXP

FDN

FNDN

FRT

GALV

FUR CHN'L

GEN CONTR

GYP BD-(1)

HD WD-(1)

INSUL

MAX

MB (16)

MECH CONTR

MECH

NOM

NTS

OC

OD

OPNG

**EXP CONST** 

PRODUCT, SYSTEM OR SERVICE AND, CONSEQUENTLY, THE CONTRACTOR IS NOT ENTITLED TO ANY ADDITIONAL

BECAUSE IT IS NOT EXPRESSLY DEPICTED HEREIN.

ANCHOR BOLT

ACOUSTICAL CEILING PANEL

ADJACENT OR ADJUSTABLE

ACOUSTICAL CEILING TILE ABOVE FINISH FLOOR

ABOVE FINISH GRADE

ABRASIVE

ACOUSTIC

**ADDITIONAL** 

ALUMINUM

**ALTERNATE** 

ACCESS PANE

**APPROXIMATE** 

ANCHOR

ASPHALT

AVERAGE

BASEMENT

BOARD

BETWEEN

BUILDING

BEARING

**BRACKET** 

CLEAR

CLEAN-OUT

**CONCRETE** 

CONDITION

COUNTER

CENTER(S)

**DIMENSION** 

DOOR OPENING

**EXPANSION JOINT** 

ELECTRIC/ELECTRICAL

ELECTRICAL CONTRACTOR

ELEVATOR OR ELEVATION

ELECTRIC WATER COOLER

ELEVATION

EMBEDMENT

**EMERGENCY** 

EACH WAY

**EPOXY** 

EQUAL

DOWN

DOOR

DETAIL

DOWELS

EACH

DRAWINGS

**CONTINUOUS** 

CONTRACT(OR)

CARPET (TYPE)

COUNTER SINK

CONCRETE OPENING

CERAMIC TILE (TYPE)

CABINET UNIT HEATER

CABINET UNIT VENTILATOR

**BITUMINOUS** 

BLOCKING (WOOD)

BENT STEEL PLATE

CAST-IN-PLACE

CEMENT PLASTER (TYPE)

CONCRETE MASONRY UNIT

COMPRESSIBLE OR COMPACTED

CERAMIC PAVER TILE (TYPE)

CONSTRUCTION OR CONTRACTION JOINT

BENCH MARK

BOTTOM OF

**AUTOMATIC** 

**ACP** 

**ACOU** 

**APPROX** 

BRK1

CAB

COMP

CONC

COND

CONT

CONTR

CPT-(1

CTR SK

DWGS

DWL'S

ELEC

ELEV

**EMBED** 

**EMER** 

EW

ELEC CONTR

CONC OPNO

CEM PL-(1)

CT PAV-(1

B: MISCELLANEOUS AND DEMOLITION NOTES

STANDARD ABBREVIATIONS

**EXPANSION** 

FLOOR DRAIN

FOUNDATION

FOUNDATION

**FLOOR** 

FOOTING

**GALVANIZED** 

HARDENER

HOLLOW METAL

INSIDE DIAMETER

KNOCK DOWN

LEFT HAND

LOW POINT

LIGHTWEIGHT

**MECHANICAL** 

MOUNT(ED)

METAL

NOMINAL

NUMBER

OPENING

ON CENTER

MANUFACTURER

NOT IN CONTRACT

OUTSIDE DIAMETER

NOT TO SCALE

LONG LEG HORIZONTAL

LONG LEG VERTICAL

MASONRY OPENING

HORIZONTAL

FIRE EXTINGUISHER

FIRE HOSE CABINET

FURRING CHANNEL

GENERAL CONTRACTOR

GENERAL CONTRACTOR

GYPSUM WALL BOARD (TYPE)

HEATING/VENTILATING/AIR CONDITIONING

INCLUDE/INCLUDING/INCLUDED

INSULATION/INSULATING/INSULATED

LAMINATE/LAMINATING/LAMINATED

MARKERBOARD (LENGTH IN FEET)

MECHANICAL CONTRACTOR

MOP SERVICE BASIN (SINK)

OVERALL OR OUTSIDE AIR

OUTSIDE FACE OR OPPOSITE FACE

OPPOSITE OR OPPOSITE HAND

PRESSURE TREATED OR PAINT

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

MINIMUM OR MINUTE(S)

GYPSUM PLASTER (TYPE)

HEAVY DUTY OR HARD

HARD WOOD (TYPE)

ELECTRIC WATER HEATER

**EXPOSED CONSTRUCTION** 

FIRE EXTINGUISHER CABINET

FIRE RETARDANT TREATED

- COORDINATE PENETRATIONS AND/OR SLEEVES REQUIRED IN WALLS, FLOORS, CEILINGS OR ROOFS FOR MECHANICAL AND ELECTRICAL WORK REQUIRED BY ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND
- SEAL WITH UL APPROVED MATERIALS PENETRATIONS OF DUCTWORK, CONDUIT AND PIPES THROUGH FIRE-RATED ASSEMBLIES, TO MAINTAIN THE RATING INTEGRITY OF THOSE ASSEMBLIES. PROVIDE FIRE DAMPERS AS INDICATED ON THE DRAWINGS.
- 3. SEAL WITH ACOUSTICAL SEALANT PENETRATIONS OF DUCTWORK, CONDUIT AND PIPES THROUGH NON-RATED FLOORS, FULL-HEIGHT WALLS/PARTITIONS, ACOUSTICALLY INSULATED WALLS/PARTITIONS, AND SOUND-RATED WALLS/PARTITIONS, TO MAINTAIN THE ACOUSTICAL INTEGRITY OF THOSE
- APPLY APPROPRIATE & COMPATIBLE SEALANT MATERIALS AS REQUIRED TO SEPARATE DISSIMILAR METALS, FILL GAPS IN EXISTING ASSEMBLIES OR WHERE NEW AND EXISTING ASSEMBLIES MEET OR WHERE OTHERWISE REQUIRED BY THE SPECIFICATIONS.
- BRING ANY UNFORESEEN OR CONFLICTING CONDITIONS TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

REPAIR, PATCH, OR REPLACE FINISH MATERIALS OR VISIBLE ASSEMBLIES THAT ARE SOILED, CUT OR DAMAGED IN ANY FASHION DURING THE COURSE OF THE WORK. PERFORM PATCHING SUCH THAT EDGES BLEND INTO CONTIGUOUS SURFACES SMOOTHLY, MATCHING TEXTURE AND COLOR OF ADJACENT

PAVEMENT

PLASTIC LAMINATE(D)

PLUMBING CONTRACTOR

POLYVINYL CHLORIDE

GYPSUM PLASTER (TYPE)

RUBBER FLOORING (TYPE)

REINFORCE/REINFORCING/REINFORCED

PRECAST (CONCRETE) OPENING

PIECE PLATE

**PLASTER** 

**PLUMBING** 

RADIUS

ROOF DRAIN

REQUIRED

SQUARE FOOT

SQUARE INCH

STAINLESS STEEL

SEALER/HARDENER

SLAB ON GRADE

SPECIFICATION(S)

STANDARD WEIGHT

TONGUE AND GROOVE

TOP OF FOUNDATION

TACKBOARD (LENGTH IN FEET)

(WINDOW) UNIT DIMENSION

UNLESS NOTED OTHERWISE

STRUCTURE OR STRUCTURAL

SERVICE SINK

SCHEDULE

SECTION

SPACING SPEAKER

STANDARD

SUSPEND(ED)

SYMMETRICAL

TOP OF BEAM

TOP OF CURB

TOP OF STEEL

TOP OF WALL

TOP OF MASONRY

VINYL BASE COVED

VERTICAL

WITHOUT

WINDOW

WATER PROOF

WEIGHT

WIDE OR WIDTH

VINYL BASE STRAIGHT

VINYL COMPOSITION TILE

VENEER PLASTER (TYPE)

WALL CORNER GUARD

WELDED WIRE FABRIC

WALL SERVICE BASIN

SHEET

ROUGH OPENING

PLB'G CONTR

R OR RAD

SEAL/HDNR

STD WT

VCT

VERT

VEN PL (1)

**JUNIOR COLLEGE** 

**PROJECT BUILDING 'T' BOILER** 

> REPLACEMENT JOLIET JUNIOR COLLEGE 1215 HOUBOLT ROAD **JOLIET, IL 60431**

JOLIET JUNIOR COLLEGE **OWNER** 

> 1215 HOUBOLT ROAD **JOLIET, IL 60431**

ARCHITECT/ **ENGINEER** 

A12.24

<del>--\-</del>A7.19 /

**(26)** 

100'-0"

204

203.2

203.1X

7.531

CONCRETE

CONCRETE MASONRY IN PLAN

BRICK MASONRY IN

(RUNNING BOND)

MASONRY IN PLAN

STONE MASONRY IN

RAKED JOINT IN

CTRL./EXP. JOINT

BRICK MASONRY I

SECTION DETAIL

CONCRETE

MASONRY IN

SECTION DETAIL

STONE MASONRY IN

SECTION DETAIL

STEEL IN SECTION

DISCONTINUOUS ROUGH WOOD

BLOCKING IN

**CONTINUOUS** 

IN SECTION

ROUGH WOOD

FRAMING/BLOCKING

FINISHED WOOD IN

SECTION DETAIL

RIGID BOARD

RIGID BOARD

BATT INSULATION

GYPSUM BOARD

ACOUSTICAL

BITUMINOUS

IN SECTION

AGGREGATE

SECTION

UNDISTURBED

EARTH BACKFILL

(ASPHALT) PAVING

BALLAST, FILL OR BACKFILL IN

CONCRETE

CEILING PANEL

INSULATION

(ROOFING)

INSULATION

(STACK BOND)

DETAIL NUMBER-

DRAWING NUMBER —

DETAIL NUMBER-

DRAWING NUMBER —

DETAIL NUMBER -

DETAIL NUMBER

COLUMN NO

**ELEVATION** 

NUMBER

DOOR NO. NEW

DOOR NO. EXISTING

NOMINAL THICKNESS -

KEYNOTE

IDENTIFICATION

WINDOW TYPE IDENTIFICATION

TOILET ACCESSORY

IDENTIFICATION

**ELEVATION** 

CONSTRUCTION TYPE SPECIAL CONDITION

reference line no

DRAWING NUMBER — A6.05/

DRAWING NUMBER -

KLUBER ARCHITECTS + ENGINEERS 41 W BENTON STREET **AURORA, ILLINOIS 60506** 

TEL (630) 406-1213 FAX (630) 406-9472 www.kluberinc.com

## BID DOCUMENTS

## **INDEX OF DRAWINGS**

- G100 COVER SHEET, GENERAL NOTES, SYMBOLS, & DRAWING INDEX
- M310 MECHANICAL PARTIAL FLOOR PLANS M410 ENLARGED FLOOR PLANS, MECHANICAL SCHEDULES AND

E410 ELECTRICAL ENLARGED FLOOR PLANS & SCHEDULES



## **APPLICABLE CODES**

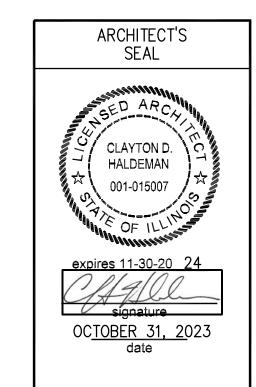
2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL AND GAS CODE 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 INTERNATIONAL FIRE CODE 2020 NATIONAL ELECTRICAL CODE LOCAL AMENDMENTS TO THE ABOVE CODES

2014 ILLINOIS PLUMBING CODE 2018 ILLINOIS ENERGY CONSERVATION CODE (2018 INTERNATIONAL ENERGY CONSERVATION CODE W/STATE AMENDMENTS 2018 ILLINOIS ACCESSIBILITY CODE

## **SEALS & CERTIFICATIONS**

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH IBC 2018 EDITION. THE ENVIRONMENTAL BARRIERS ACT AND THE ILLINOIS ACCESSIBILITY

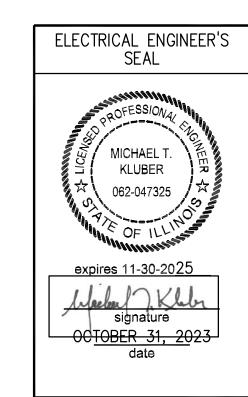
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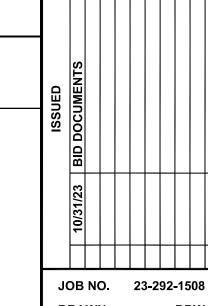
DONALD D. WARE, JR. 062-052082 expires 11-30-20<u>25</u> Joseph D Www. OCTOBER 31, 2023

MECHANICAL ENGINEER'S

"G" SERIES, "M" SERIES



"G" SERIES, "E" SERIES



DRAWN CHECKED APPROVED SHEET TITLE

COVER SHEET, GENERAL NOTES, SYMBOLS AND **DRAWING INDEX** 

SHEET NUMBER

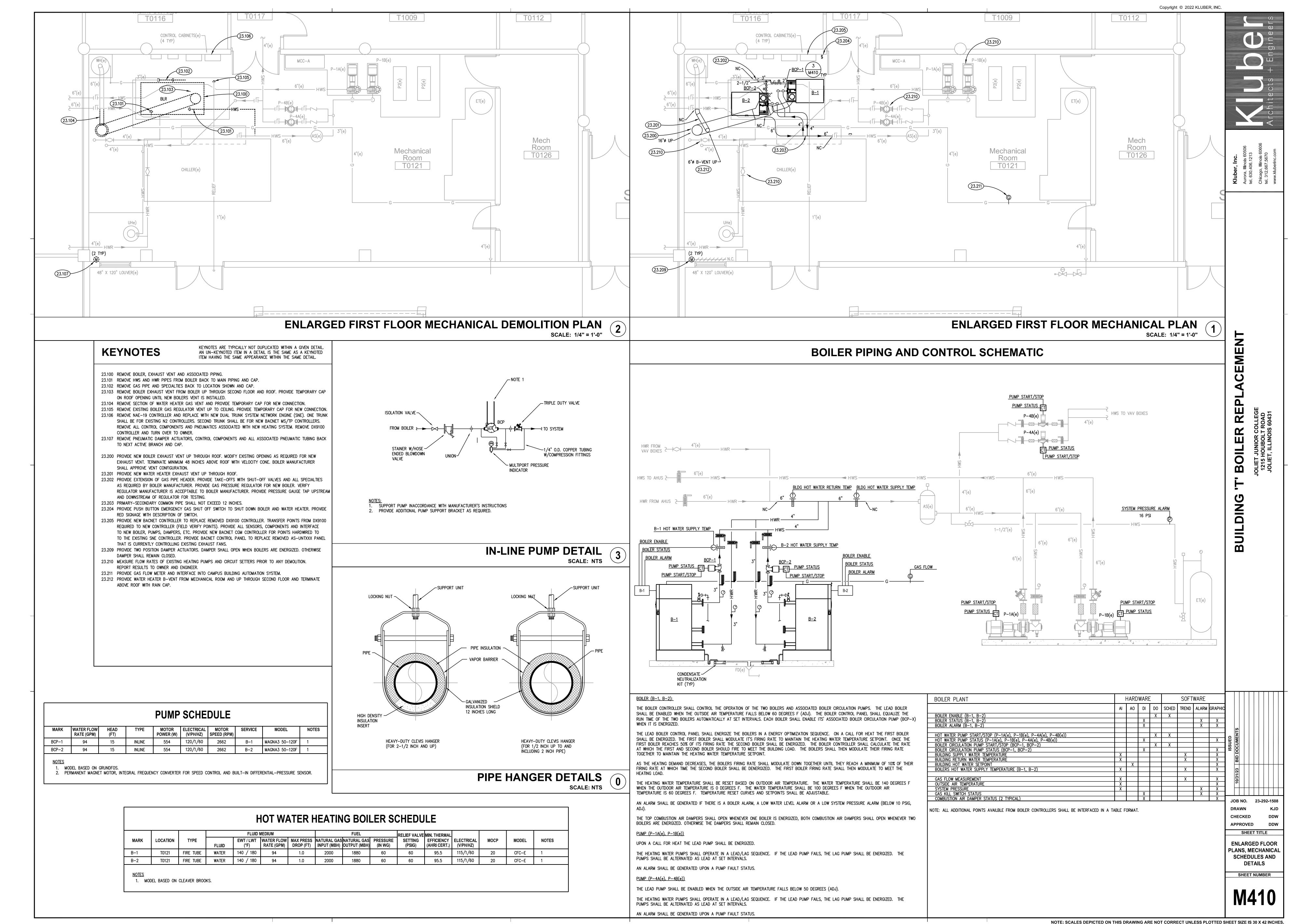
THE MATERIALS, ABBREVIATIONS, AND DRAFTING SYMBOLS LEGEND ARE EACH AN ALL INCLUSIVE MASTER LIST USED BY THIS FIRM. THE INCLUSION OF THESE LEGENDS INTO THESE DOCUMENTS DOES NOT IMPLY THAT ALL THE SYMBOLS OR MATERIALS INCLUDED IN THESE LEGENDS ARE INCORPORATED INTO THIS PROJECT. ABBREVIATIONS MAY

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

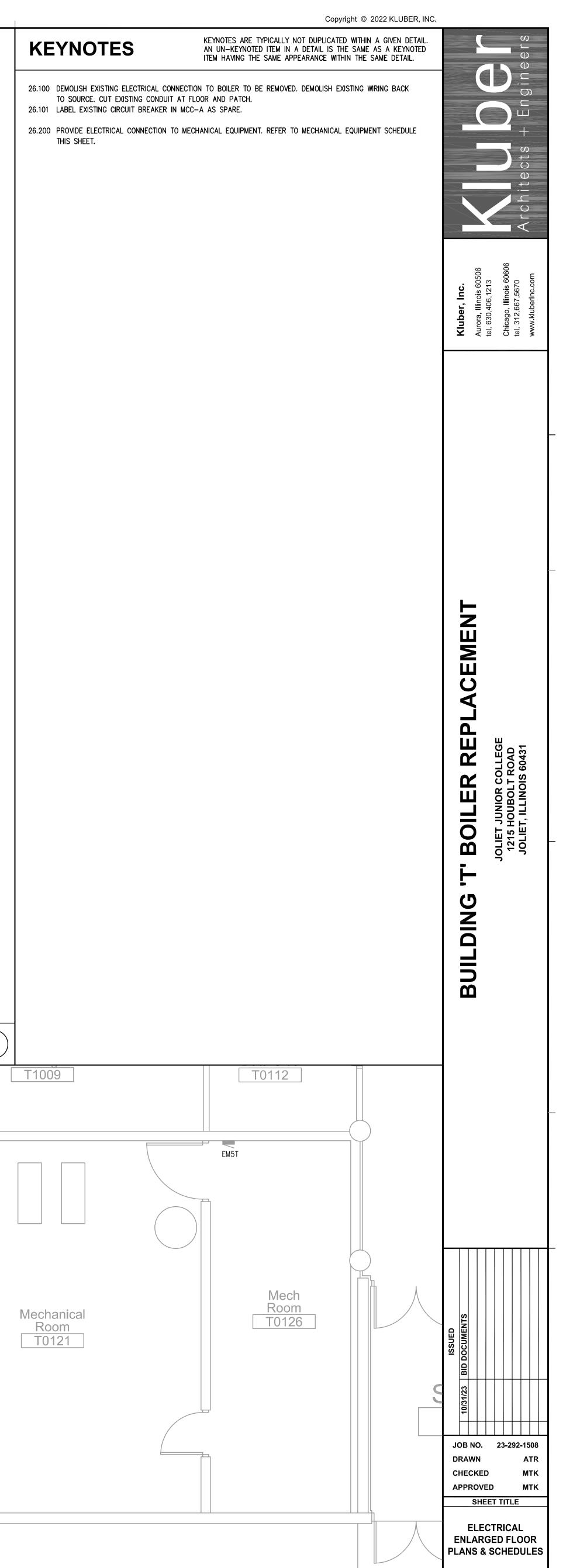
APPEAR WITH PERIODS OR OTHER PUNCTUATION SEPARATING CHARACTERS ON THE DRAWINGS; THE MEANING REMAINS THE SAME.

"G" SERIES, "M310"

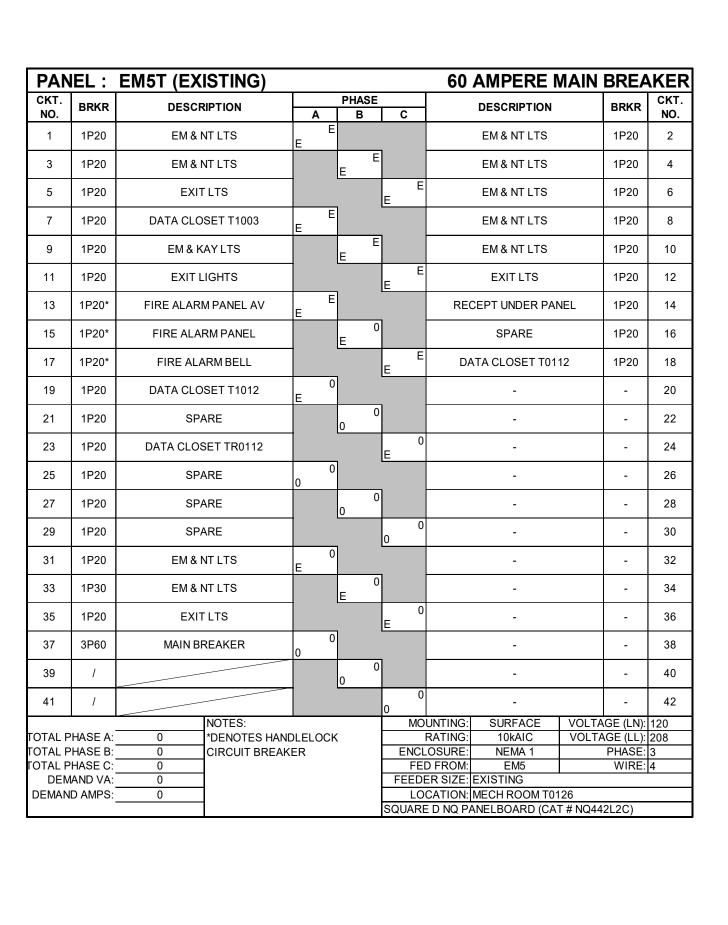
NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.



P:\1508 - JJC - Building T Boiler Replacement\30\_Design\Dwgs\DD-CD\30\_Mech\1508M0410.dwg, 10/31/2023 10:08:53 /



NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.



PANEL: EM5T (REMODELED)						60 AMPERE MAIN BREAKER				
KT. NO.	BRKR	DESCRIPTION  EM & NT LTS	A	PHASE B	i I c		DESCRIPTION  EM & NT LTS		<b>BRKR</b> 1P20	CKT. NO.
1	1P20		E							
3	1P20	EM & NT LTS		E			EM & NT LTS		1P20	4
5	1P20	EXIT LTS			E		EM & NT LTS		1P20	6
7	1P20	DATA CLOSET T1003	E				EM & NT LTS		1P20	8
9	1P20	EM & KAY LTS		E			EM & NT LTS		1P20	10
11	1P20	EXIT LIGHTS			E		EXIT LTS			12
13	1P20*	FIRE ALARM PANEL AV	E			REC	RECEPT UNDER PANEL			14
15	1P20*	FIRE ALARM PANEL		( E			SPARE			16
17	1P20*	FIRE ALARM BELL			E	DA	DATA CLOSET T0112		1P20	18
19	1P20	DATA CLOSET T1012	0 E				-			20
21	1P20	SPARE		0			-		-	22
23	1P20	DATA CLOSET TR0112			E (	)	-		-	24
25	1P20	BOILER B-1	1860				-		-	26
27	1P20	BOILER B-2		1860	)		-		-	28
29	1P20	BCP-1, BCP-2			1108		-		ı	30
31	1P20	EM & NT LTS	0 E		_		-		-	32
33	1P30	EM & NT LTS		(  E			-		-	34
35	1P20	EXIT LTS			E (				-	36
37	3P60	MAIN BREAKER	0				-		-	38
39	/			0	)	-			1	40
41	1				0	)	-		1	42
DTAL PHASE A: 1860 *DENOTES HAND DTAL PHASE B: 1860 CIRCUIT BREAKE DTAL PHASE C: 1108 DEMAND VA: 4828			(	ENC FE	MOUNTING: SURFACE RATING: 10kAIC ENCLOSURE: NEMA 1 FED FROM: EM5 FEEDER SIZE: EXISTING			GE (LN): GE (LL): PHASE: WIRE:	208 3	

	DESCRIPTION		KW	HP	VOL	РН	CRCT NO.	MOCP	DISC. FURN BY	CIRCUIT WIRING	NOTE
NO.		FLA						POLE AMP			
B-1	BOILER	15.5	-	-	120	1	EM5T-25	1P, 20A	EC	2#12,#12G,3/4"C	1
B-2	BOILER	15.5	-	-	120	1	EM5T-27	1P, 20A	EC	2#12,#12G,3/4"C	1
BCP-1	BOILER CIRCULATION PUMP	-	0.5	-	120	1	EM5T-29	1P, 20A	EC	2#12,#12G,3/4"C	
BCP-2	BOILER CIRCULATION PUMP	-	0.5	-	120	1	EM5T-29	1P, 20A	EC	2#12,#12G,3/4"C	

ELECTRICAL SCHEDULES SCALE: N.T.S. 3 T0117 T0117 T1009 T0112 T0116 T0116 MCC-A Mech Room T0126 Mechanical Room T0121 SHEET NUMBER E410 ENLARGED FIRST FLOOR ELECTRICAL DEMOLITION PLAN SCALE: 1/4" = 1'-0" ENLARGED FIRST FLOOR ELECTRICAL PLAN (1)