

ADDENDUM NO. 1
LSD Gardner Elementary Chiller Replacement

Date: 05/19/2026
Job Number: 260150.00

OWNER:

Lansing School District
333 Dahlia Dr
Lansing, MI 48911

ENGINEER:

Matrix Consulting Engineers
544 Cherbourg Drive
Lansing, MI 48917

This Addendum is issued for the purpose of modifying and/or clarifying the original Contract Documents and shall take precedence over them.

All work included herein shall be in accordance with the original drawings and specifications except as specifically noted herein. All incidental items required to provide the following modifications shall be included even though not specifically described.

This addendum is being sent to all bidders receiving plans and specifications. **Receipt of this Addendum shall be noted on the Proposal Form in the appropriate location.**

Electrical

- 1. Sheet E-300 (Sheet Re-issued):**
 - a. Added existing panel.

- 2. Sheet E-500 (Sheet Re-issued):**
 - a. Added existing panel.
 - b. Removed keynote.
 - c. Added circuit tags to equipment (EF-1, EF-2, P-HC-1).
 - d. Revised location of P-4 combination starter.

- 3. Sheet E-600 (Sheet Re-issued):**
 - a. Added existing panel schedule.

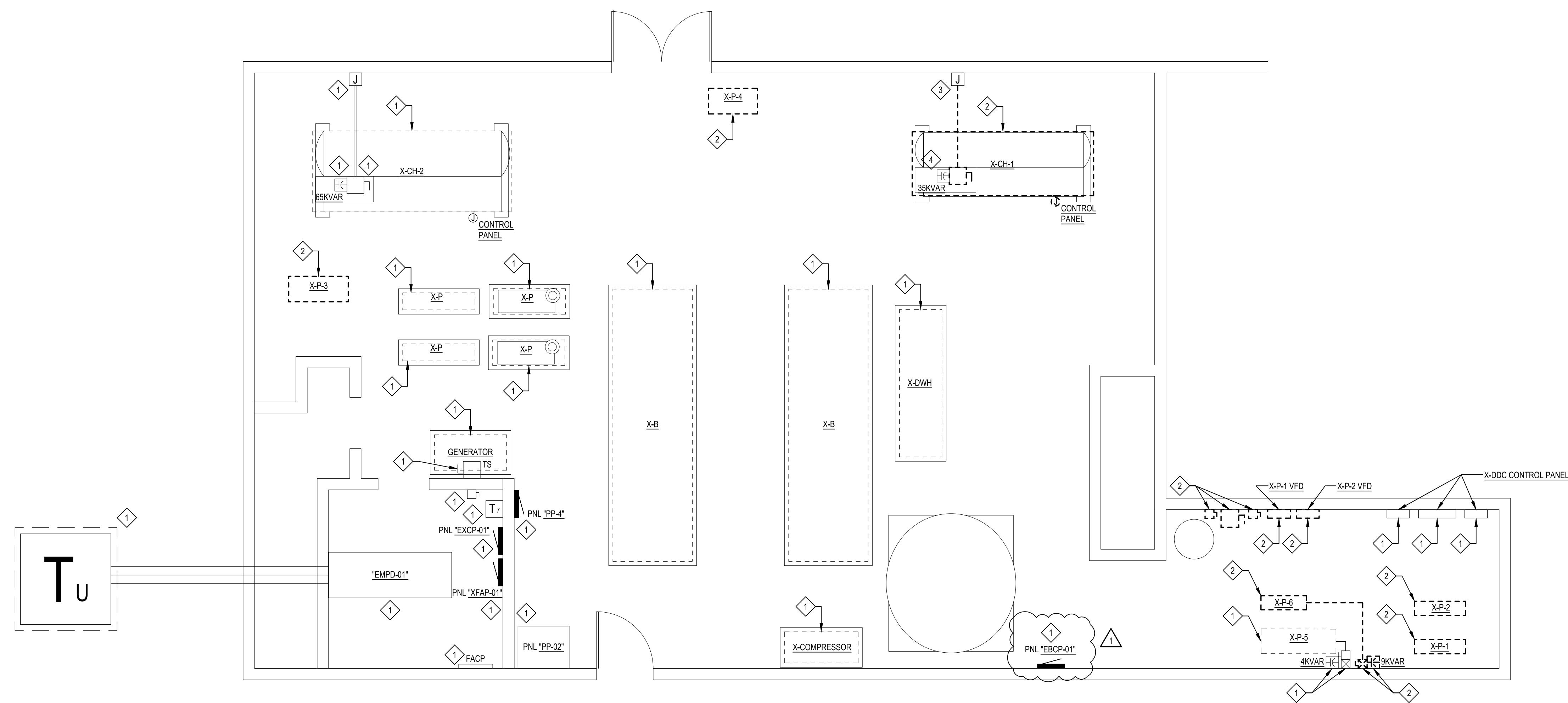
- 4. Sheet E-601 (Sheet Re-issued):**
 - a. Added revised panel schedule.

END OF ADDENDUM

REVISIONS
05/18/2026 100% BID SET 05/19/2026 ADDENDUM #1

DRAWN BTT
APPROVED JFS

544 Cheaburg Drive
Lansing, MI 48917
PHONE (517) 487-2511
administrator@matrixinc.com
Matrix Project No. 260150.00

DEMOLITION NOTES

- 1 EXISTING EQUIPMENT TO REMAIN.
- 2 BASE BID: DISCONNECT AND REMOVE EXISTING EQUIPMENT. ASSOCIATED CONDUIT TO REMAIN FOR CONNECTION TO NEW EQUIPMENT. REMOVE ASSOCIATED WIRE BACK TO SOURCE.

ADD ALTERNATE: DISCONNECT AND REMOVE EXISTING EQUIPMENT. ASSOCIATED CONDUIT TO BE CAPPED ABOVE FINISHED FLOOR. REMOVE ASSOCIATED WIRE BACK TO SOURCE.
- 3 BASE BID: EXISTING EQUIPMENT TO REMAIN. ASSOCIATED CONDUIT TO REMAIN FOR CONNECTION TO NEW EQUIPMENT. REMOVE ASSOCIATED WIRE BACK TO SOURCE.

ADD ALTERNATE: EXISTING EQUIPMENT TO REMAIN. ASSOCIATED CONDUIT TO BE TERMINATED TO PULL BOX. REMOVE ASSOCIATED WIRE BACK TO SOURCE.
- 4 DISCONNECT AND REMOVE EXISTING CAPACITOR FOR REMOVAL OF CHILLER. RE-CONNECT CAPACITOR TO NEW CHILLER.

MECHANICAL ROOM PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"

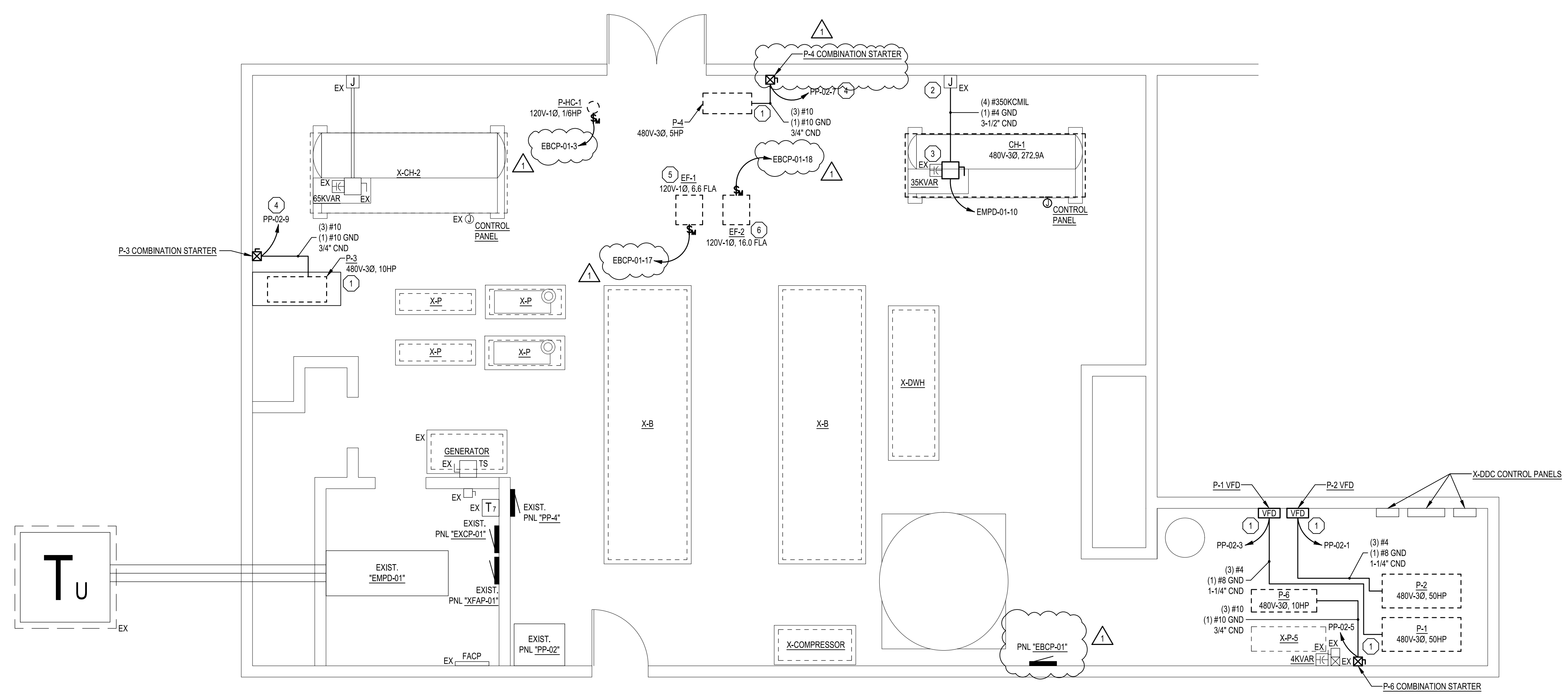
PROJECT
GARDNER INTERNATIONAL MAGNET SCHOOL
CHILLER REPLACEMENT
333 DAHLIA DR, LANSING, MI

SHEET DESCRIPTION MECHANICAL ROOM PLAN DEMOLITION
DATE 05/18/2026
PROJECT NUMBER 260150.00
SHEET NUMBER E-300

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05/18/2026 100% BID SET
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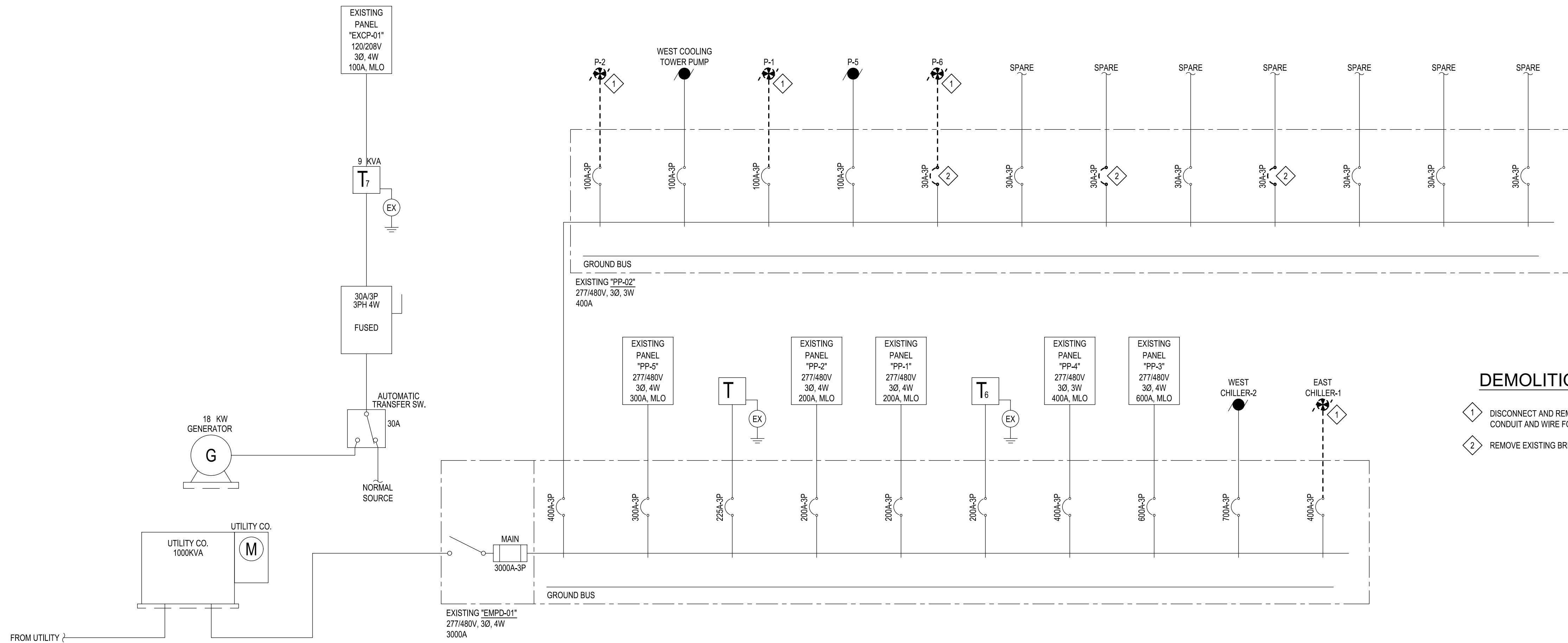



- ### ELECTRICAL KEY NOTES
- BASE BID:** REUSE EXISTING CONDUIT FOR CONNECTION TO NEW EQUIPMENT. PROVIDE AND INSTALL NEW WIRE.
 - ADD ALTERNATE:** PROVIDE AND INSTALL NEW CONDUIT AND WIRE FOR CONNECTION TO NEW EQUIPMENT.
 - BASE BID:** REUSE EXISTING CONDUIT TO PULL BOX FOR CONNECTION TO NEW EQUIPMENT. PROVIDE AND INSTALL NEW CONDUIT FROM PULL BOX TO CHILLER. PROVIDE AND INSTALL NEW WIRE IN ENTIRETY.
 - ADD ALTERNATE:** PROVIDE AND INSTALL NEW CONDUIT AND WIRE FOR CONNECTION TO NEW EQUIPMENT.
 - RE-CONNECT CAPACITOR TO NEW CHILLER.
 - EXISTING CIRCUIT IS UNKNOWN. NEW CIRCUIT NUMBER IS SHOWN FOR LOAD PURPOSES. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUIT, FOR POTENTIAL RE-CONNECTION.
 - EXHAUST FAN TO RUN CONTINUOUSLY.
 - EXHAUST FAN SHALL BE CONTROLLED BY REFRIGERANT MONITOR. ROUTE CIRCUIT THROUGH RIB RELAY CONTROLLED BY BAS SYSTEM. PROVIDE ALL WIRE AND CONDUIT FOR A COMPLETE INSTALLATION.

MECHANICAL ROOM PLAN - POWER
SCALE: 1/4" = 1'-0"

PROJECT
GARDNER INTERNATIONAL MAGNET SCHOOL
CHILLER REPLACEMENT
333 DAHLIA DR, LANSING, MI

SHEET DESCRIPTION MECHANICAL ROOM PLAN POWER
DATE 05/18/2026
PROJECT NUMBER 260150.00
SHEET NUMBER E-500



DEMOLITION NOTES

1 DISCONNECT AND REMOVE EXISTING EQUIPMENT. MODIFY ASSOCIATED CONDUIT AND WIRE FOR NEW EQUIPMENT.

2 REMOVE EXISTING BREAKER, AND TURN OVER TO OWNER.

SERVICE LOAD SUMMARY

	W	AMPS
EXISTING DEMAND	606530	729.56
ADDITIONAL 25% CAPACITY	151633	182.39
REMOVED LOAD	346355	416.61
ADDITIONAL LOAD	390135	469.27
TOTAL	801943	964.62

PARTIAL RISER DIAGRAM - EXISTING
SCALE: N.T.S.

EXISTING PANEL "EMPD-01"

LOCATION: MAIN ELECTRICAL ROOM MOUNTING: SURFACE ENCLOSURE: NEMA 1 A.I.C. RATING: EXISTING NOTES:

SUPPLY FROM: UTILITY XFMR PHASE: 3 WIRE: 4 AMPS: 3000 MAIN: MCB

BRKR	DESCRIPTION	CIRCUIT	PHASE LOADS			CIRCUIT	DESCRIPTION	BRKR
			VA	A	B			
400	EXISTING PNL "PP-02"	1	0	0	0	2	EXISTING PNL "PP-5"	300
225	EXISTING TRANSFORMER	3	0	0	0	4	EXISTING PNL "PP-2"	200
200	EXISTING PNL "PP-1"	5	0	0	0	6	EXISTING TRANSFORMER #6	200
400	EXISTING PNL "PP-4"	7	0	0	0	8	EXISTING PNL "PP-3"	600
700	EXISTING WEST CHILLER-2	9	0	0	0	10	EXISTING EAST CHILLER-1	400
CONNECTED			0	0	0	TOTAL CONNECTED LOAD		0 VOLT-AMPS
TOTAL CONNECTED			0	0	0			0.00 AMPS

EXISTING PANEL "PP-02"

LOCATION: MECHANICAL ROOM MOUNTING: SURFACE ENCLOSURE: NEMA 1 A.I.C. RATING: EXISTING NOTES: LOADS LISTED IN ITALICS ARE ESTIMATED

SUPPLY FROM: EMPD-01 PHASE: 3 WIRE: 3 AMPS: 400 MAIN: MLO

BRKR	DESCRIPTION	CIRCUIT	PHASE LOADS			CIRCUIT	DESCRIPTION	BRKR
			VA	A	B			
100	EXISTING P-2	1	14410	28820		2	EXISTING WEST COOLING TOWER PUMP	100
100	EXISTING P-1	3	14410	28820	28820	4	EXISTING P-5	100
30	EXISTING P-6	5	5820	5820		6	SPARE	30
30	SPARE	7	0	0	0	8	SPARE	30
30	SPARE	9	0	0	0	10	SPARE	30
30	SPARE	11	0	0	0	12	SPARE	30
CONNECTED			63460	63460	63460	TOTAL CONNECTED LOAD		190381 VOLT-AMPS
TOTAL CONNECTED			190381					228.99 AMPS

EXISTING PANEL "EBCP-01"

LOCATION: MECHANICAL ROOM MOUNTING: SURFACE ENCLOSURE: NEMA 1 A.I.C. RATING: EXISTING NOTES:

SUPPLY FROM: PHASE: 3 WIRE: 4 AMPS: 225 MAIN: MLO

BRKR	DESCRIPTION	CIRCUIT	PHASE LOADS			CIRCUIT	DESCRIPTION	BRKR
			VA	A	B			
20	RECP. (BACK DOOR & BOILER)	1		0		22	RECP. GRAPHICS	20
20	HALL RECP.	2		0		23	RECP. GRAPHICS	20
20	SPARE	3		0	0	24	RECP. GRAPHICS	20
20	MECH. RMS. LTS.	4		0		25	TEMP CONTROLS	20
20	MECH. RMS. LTS.	5		0		26	UNIT HEATER BY CHILLER	20
20	RECEIVING LTS.	6		0	0	27	UNIT HEATER BY BOILER	20
20	STORAGE RM. LTS.	7		0		28	WESTHALL POP MACHINE	20
20	STORAGE RM. LTS.	8		0		29	WESTHALL POP MACHINE	20
20	DARK RM LTS.	9		0	0	30	ALARM SEW. & VACUUM	20
20	SERVING LTS.	10		0		31	SPARE	20
20	SERVING LTS.	11		0		32	SPARE	20
20	SERVING LTS.	12		0	0	33	TRANE	20
20	RECP. - CAFÉ LOUNGE	13		0		34	SPARE	20
20	ROOF VENT #2	14		0		35	REFRIGERANT MONITOR	20
20	SPARE	15		0	0	36	RECP. DARK RM.	20
20	SPARE	16		0		37	RECP. DARK RM.	20
20	SPARE	17		0		38	TIME CLOCK #8	20
20	SPARE	18		0	0	39	TIME CLOCK - PARKING LOT	20
20	POWER INVERTERS	19		0		40	TIME CLOCK #12	20
20	POWER INVERTERS	20		0		41	TIME CLOCK #12	20
20	RM 43 E.S. PLUG	21		0	0	42	UNIT HEATER	20
CONNECTED			0	0	0	TOTAL CONNECTED LOAD		0 VOLT-AMPS
TOTAL CONNECTED			0	0	0			0.00 AMPS

REVISIONS

05/18/2026	100% BID SET
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DRAWN: **BTT**

APPROVED: **JFS**

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MATRIX
CONSULTING ENGINEERS, INC.

PROJECT

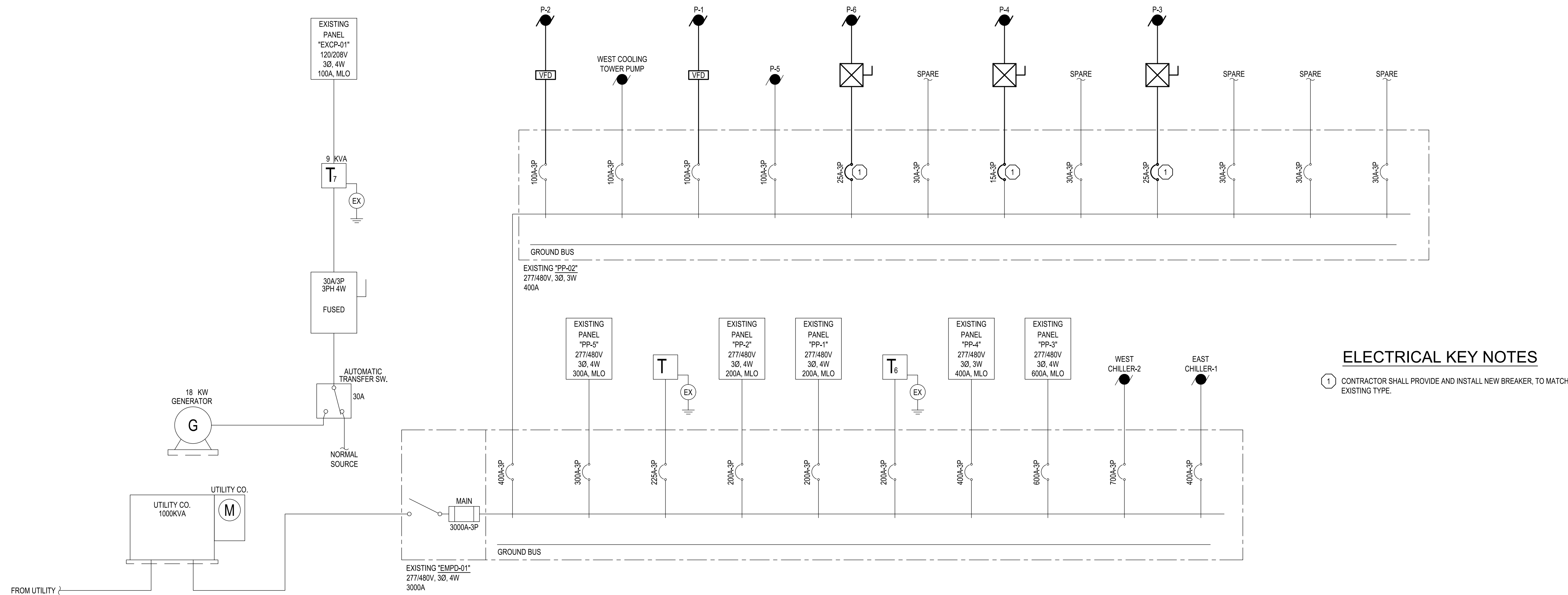
GARDNER INTERNATIONAL MAGNET SCHOOL
CHILLER REPLACEMENT
333 DAHLIA DR, LANSING, MI

SHEET DESCRIPTION: **EXISTING RISER DIAGRAM AND PANEL SCHEDULES**

DATE: **05/18/2026**

PROJECT NUMBER: **260150.00**

SHEET NUMBER: **E-600**



ELECTRICAL KEY NOTES
 1 CONTRACTOR SHALL PROVIDE AND INSTALL NEW BREAKER, TO MATCH EXISTING TYPE.

SERVICE LOAD SUMMARY

	W	AMPS
EXISTING DEMAND	606530	729.56
ADDITIONAL 25% CAPACITY	151633	182.39
REMOVED LOAD	346355	416.61
ADDITIONAL LOAD	390135	469.27
TOTAL	801943	964.62

PARTIAL RISER DIAGRAM - REVISED
 SCALE: N.T.S.

REVISED PANEL "EMPD-01"

LOCATION: MAIN ELECTRICAL ROOM MOUNTING: SURFACE A.I.C. RATING: EXISTING
 SUPPLY FROM: UTILITY XFMR ENCLOSURE: NEMA 1

VOLTS: 480 /277 PHASE: 3 WIRE: 4 AMPS: 3000 MAIN: MCB

BRKR	DESCRIPTION	CIRCUIT	PHASE LOADS			CIRCUIT	DESCRIPTION	BRKR
			VA	A	B			
400 3	EXISTING PNL "PP-02"	1	0	0	0	2	EXISTING PNL "PP-5"	300 3
225 3	EXISTING TRANSFORMER	3	0	0	0	4	EXISTING PNL "PP-2"	200 3
200 3	EXISTING PNL "PP-1"	5	0	0	0	6	EXISTING TRANSFORMER #6	200 3
400 3	EXISTING PNL "PP-4"	7	0	0	0	8	EXISTING PNL "PP-3"	600 3
700 3	EXISTING WEST CHILLER-2	9	75539	75539	75539	10	NEW EAST CHILLER-1	400 3
CONNECTED			75539	75539	75539	TOTAL CONNECTED LOAD		226617 VOLT-AMPS
TOTAL CONNECTED			226617					272.58 AMPS

REVISED PANEL "PP-02"

LOCATION: MECHANICAL ROOM MOUNTING: SURFACE A.I.C. RATING: EXISTING
 SUPPLY FROM: EMPD-01 ENCLOSURE: NEMA 1

VOLTS: 480 /277 PHASE: 3 WIRE: 3 AMPS: 400 MAIN: MLO

NOTES: *DENOTES NEW CONTRACTOR PROVIDED BREAKER

BRKR	DESCRIPTION	CIRCUIT	PHASE LOADS			CIRCUIT	DESCRIPTION	BRKR
			VA	A	B			
100 3	NEW P-2	1	18013	32423		2	EXISTING WEST COOLING TOWER PUMP	100 3
100 3	NEW P-1	3	18013	32423	32423	4	EXISTING P-5	100 3
30 3	NEW P-6	5	3876	3876	3876	6	SPARE	30 3
15 3	*NEW P-4	7	2106	2106	2106	8	SPARE	30 3
25 3	*NEW P-3	9	3880	3880	3880	10	SPARE	30 3
30 3	SPARE	11		0	0	12	SPARE	30 3
CONNECTED			74708	74708	74708	TOTAL CONNECTED LOAD		224124 VOLT-AMPS
TOTAL CONNECTED			224124					269.58 AMPS

REVISED PANEL "EBCP-01"

LOCATION: MECHANICAL ROOM MOUNTING: SURFACE A.I.C. RATING: EXISTING
 SUPPLY FROM: EXISTING TRANSFORMER ENCLOSURE: NEMA 1

VOLTS: 208 /120 PHASE: 3 WIRE: 4 AMPS: 225 MAIN: MLO

BRKR	DESCRIPTION	CIRCUIT	PHASE LOADS			CIRCUIT	DESCRIPTION	BRKR
			VA	A	B			
20 1	RECP. (BACK DOOR & BOILER)	1	0	0	0	22	RECP. GRAPHICS	20 1
20 1	HALL RECP.	2	0	0	0	23	RECP. GRAPHICS	20 1
20 1	P-HC-1	3	528	528	528	24	RECP. GRAPHICS	20 1
20 1	MECH. RMS. LTS.	4	0	0	0	25	TEMP CONTROLS	20 1
20 1	MECH. RMS. LTS.	5	0	0	0	26	UNIT HEATER BY CHILLER	20 1
20 1	RECEIVING LTS.	6	0	0	0	27	UNIT HEATER BY BOILER	20 1
20 1	STORAGE RM. LTS.	7	0	0	0	28	WESTHALL POP MACHINE	20 1
20 1	STORAGE RM. LTS.	8	0	0	0	29	WESTHALL POP MACHINE	20 1
20 1	DARK RM LTS.	9	0	0	0	30	ALARM SEW. & VACUUM	20 1
20 1	SERVING LTS.	10	0	0	0	31	SPARE	20 1
20 1	SERVING LTS.	11	0	0	0	32	SPARE	20 1
20 1	SERVING LTS.	12	0	0	0	33	TRANE	20 1
20 1	RECP. - CAFÉ LOUNGE	13	0	0	0	34	SPARE	20 1
20 1	ROOF VENT #2	14	0	0	0	35	REFRIGERANT MONITOR	20 1
20 1	SPARE	15	0	0	0	36	RECP. DARK RM.	20 1
20 1	SPARE	16	0	0	0	37	RECP. DARK RM.	20 1
20 1	EF-1	17	792	792	792	38	TIME CLOCK #8	20 1
20 1	EF-2	18	1920	1920	1920	39	TIME CLOCK - PARKING LOT	20 1
20 1	POWER INVERTERS	19	0	0	0	40	TIME CLOCK #12	20 1
20 1	POWER INVERTERS	20	0	0	0	41	TIME CLOCK #12	20 1
20 1	RM 43 E.S. PLUG	21	0	0	0	42	UNIT HEATER	20 1
CONNECTED			0	792	2448	TOTAL CONNECTED LOAD		3240 VOLT-AMPS
TOTAL CONNECTED			3240					8.99 AMPS

REVISIONS

05/18/2026	100% BID SET
05/19/2026	ADDENDUM #1

DRAWN: **BTT**
 APPROVED: **JFS**

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 CHILLER REPLACEMENT
 333 DAHLIA DR, LANSING, MI

SHEET DESCRIPTION
REVISED RISER DIAGRAM AND PANEL SCHEDULES

DATE
 05/18/2026

PROJECT NUMBER
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SHEET NUMBER
E-601