

HOISTS REPLACEMENTS (FTH, STH, OHB)

Metro Transit

METRO TRANSIT

560 SIXTH AVENUE NORTH
MINNEAPOLIS, MINNESOTA 55411



HOISTS
REPLACEMENTS
(FTH, STH, OHB)
HEI PROJECT NO. R25-5192.000
CONTRACT NO. 25P282

ABBREVIATIONS			ELECTRICAL SYMBOLS						ELECTRICAL SHEET INDEX		
2S1W	TWO SPEED SINGLE WINDING		LIGHT FIXTURE	DESCRIPTION	MOUNTING	WIRING DEVICE	DESCRIPTION	MOUNTING	COMMUNICATIONS	DESCRIPTION	MOUNTING
2S2W	TWO SPEED TWO WINDING		MAN	MANUAL			RECEPTACLE OPTIONS DENOTED BY "X", WHERE "X" CAN BE ONE OF THE FOLLOWING:				
2SPW	TWO STEP PART WINDING		MAX	MAXIMUM			IG = ISOLATED GROUND				
&	AND		MCC	MOTOR CONTROL CENTER			GF = GROUND FAULT INTERRUPTER				
#	AT NUMBER		MECH	MECHANICAL			TR = TAMPER RESISTANT				
A, AMP	AMPERE		MIN	MINIMUM			SS = SURGE SUPPRESSOR				
ABV	ABOVE		MISC	MISCELLANEOUS			WF = WEATHERPROOF				
AC	ALTERNATING CURRENT		MS	MOTOR STARTER			(blank) = STANDARD RECEPTACLE				
AF	ABOVE FINISHED FLOOR		MSS	MOTOR STARTER SWITCH							
ACIC	AMPERE INTERRUPTING CAPACITY		MSG	MOTOR STARTER GROUP							
ALT	ALTERNATE		MSR	MAIN SOUND RACK							
ALUM	ALUMINUM		MTD	MONTEED							
ANSI	AMERICAN NAT'L STDS. INSTITUTE		MTR	MOTOR							
APROX	APPROXIMATE		MT	EMPTY							
ARCH	ARCHITECT / ARCHITECTURAL		MTC	EMPTY CONDUIT							
ATS	AUTOMATIC TRANSFER SWITCH										
AUTO	AUTOMATIC										
AUX	AUXILIARY		N, NEUT	NEUTRAL							
AWG	AMERICAN WIRE GAUGE		NA	NOT APPLICABLE							
BFC	BELOW FINISHED CEILING		N.C.	NORMALLY CLOSED							
BLDG	BUILDING		NEC	NATIONAL ELECTRICAL CODE							
BY	BY OTHERS		NF	NON FUSED							
BRKR	BREAKER		NIC	NON IN CONTRACT							
BSMT	BASEMENT		NO	NUMBER							
B/TWN	BETWEEN		NORM	NORMAL							
C	DEGREE CELSIUS		N.O.	NORMALLY OPEN							
C	CONDUIT										
CAB	CABINET		OC	ON CENTER							
CB	CIRCUIT BREAKER		OD	OUTSIDE DIAMETER							
CBAS	COMPUTERIZED BUILDING AUTOMATION SYSTEM		OH	OVERHEAD							
CCT/CKT	CIRCUIT		Ø	PHASE							
CCTV	CLOSED CIRCUIT TELEVISION		P	POLE							
CLG	CEILING		PF	POWER FACTOR							
COL	COLUMN		PIV	POST INDICATOR VALVE							
COMB	COMBINATION		PL	PILOT LIGHT							
COMM	COMMUNICATION		PNL	PANEL							
CONN	CONCRETE		PRI	PRIMARY							
CONST	CONSTRUCTION		PT	POTENTIAL TRANSFORMER							
COORD	COORDINATE		PVC	POLYVINYL CHLORIDE							
CURR	CURRENT		PWR	POWER							
CT	CURRENT TRANSFORMER		PDU	POWER DISTRIBUTION UNIT							
CTB	COMMUNICATION TERMINAL BOARD										
CTC	COMMUNICATION TERMINAL CAB										
CUH	CABINET UNIT HEATER										
D	DEPTH / DEEP		REC	RECESSED RECEPTACLE							
DC	DIRECT CURRENT		REF	REFERENCE							
DEPT	DEPARTMENT		REQD	REFRIGERATOR REQUIRED							
DIA	DIAMETER		RM	ROOM							
DISC	DISCONNECT		RTC	RETURN TO CENTER							
DIV	DIVISION										
DN	DOWN		SEC	SECONDARY SCHEDULE							
DP	DATA PROCESSING		SCHED	SECTION							
DWG	DRAWING		SECT	SECTION							
EA	EACH		SHT	SHIRT							
ELEC	ELECTRICAL		SPC	SPACE							
EMERG	EMERGENCY		SPEC	SPECIFICATION							
EQ	EQUAL		SPI	SPECIAL							
EQUIP	EQUIPMENT		SPR	SPARE							
EWC	ELECTRIC WATER COOLER		SQ	SQUARE							
EXIST	EXISTING		STD	STANDARD							
EXP	EXPANSION		STRUCT	STRUCTURAL							
EXT	EXTERIOR		SW	SWITCH							
F	DEGREE FAHRENHEIT		SWRD	SWITCHBOARD							
FAAP	FIRE ALARM ANNUNCIATOR PANEL		SWGR	SWITCHGEAR							
FIN	TEMP		ST	SHUNT TRIP							
FIXT	Fixture										
FL	FLOOR		TEL	TELEPHONE							
FLEX	FLEXIBLE		TERM	TERMINAL/TERMINATE							
FLUOR	FLUORESCENT		TR	TAMPER RESISTANT							
FUT	FUTURE		TV	TELEVISION							
FVNR	FULL VOLTAGE NON REVERSING		TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR							
FVR	FULL VOLTAGE REVERSING		UF	UNDERFLOOR							
GA	GAUGE		UG	UNDERGROUND							
GALV	GALVANIZED		UH	UNIT HEATER							
GEN	GENERATOR		UPS	UNINTERRUPTABLE POWER SUPPLY							
GFI	GROUND FAULT INTERRUPTER		V	VOLTS							
GFR	GROUND FAULT RELAY		VA	VOLT AMPERE							
GND	GROUND		VDT	VIDEO DISPLAY TERMINAL							
GWA	GENERAL WORK AREA		VERT	VERTICAL							
H	HIGH / HEIGHT		VSD	VARIABLE SPEED DRIVE							
HOA	HAND OFF AUTOMATIC		W	WATTS							
HORIZ	HORIZONTAL		W/W	WITH							
HP	HORSEPOWER		W/O	WITHOUT							
HTG	HEATING		WP	WEATHERPROOF							
HTR	HEATER										
HZ	HERTZ		XFMR	TRANSFORMER							
ID	INSIDE DIAMETER		XP	EXPLOSION PROOF							
IG	ISOLATED GROUND		YDS	WYE-DELTA START							
KO	KNOCK OUT										
KVA	KILOVOLT AMPERES										
KW	KILOWATTS										
LCC	LIGHTING CONTROL CABINET										
LCP	LIGHTING CONTROL PANEL										
LOC	LOCATION										
LT/LTG	LIGHT/LIGHTING										



METRO TRANSIT

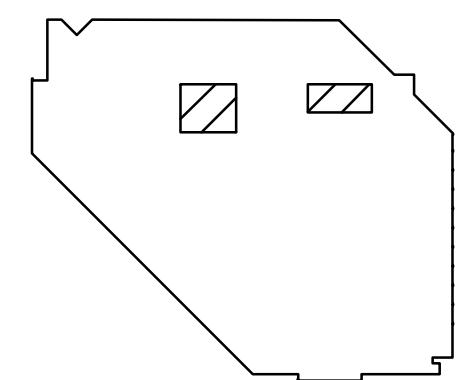
560 SIXTH AVENUE NORTH
MINNEAPOLIS, MINNESOTA 55411



HALLBERG
ENGINEERING
Mechanical / Electrical Consulting Engineers
1750 Commerce Court, White Bear Lake, MN 55110
(651) 748-1100 / Fax: (651) 748-4370

HOISTS REPLACEMENTS (FTH, STH, OHB)

HEI PROJECT NO. R25-5192.000
CONTRACT NO. 25P282



FRED T. HEYWOOD
GARAGE
560 N 6th Ave,
Minneapolis, MN 55411



LOCATION KEY

ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE

0 1

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0 10/10/2025 ISSUED FOR BIDDING
NO. DATE ISSUE RECORD

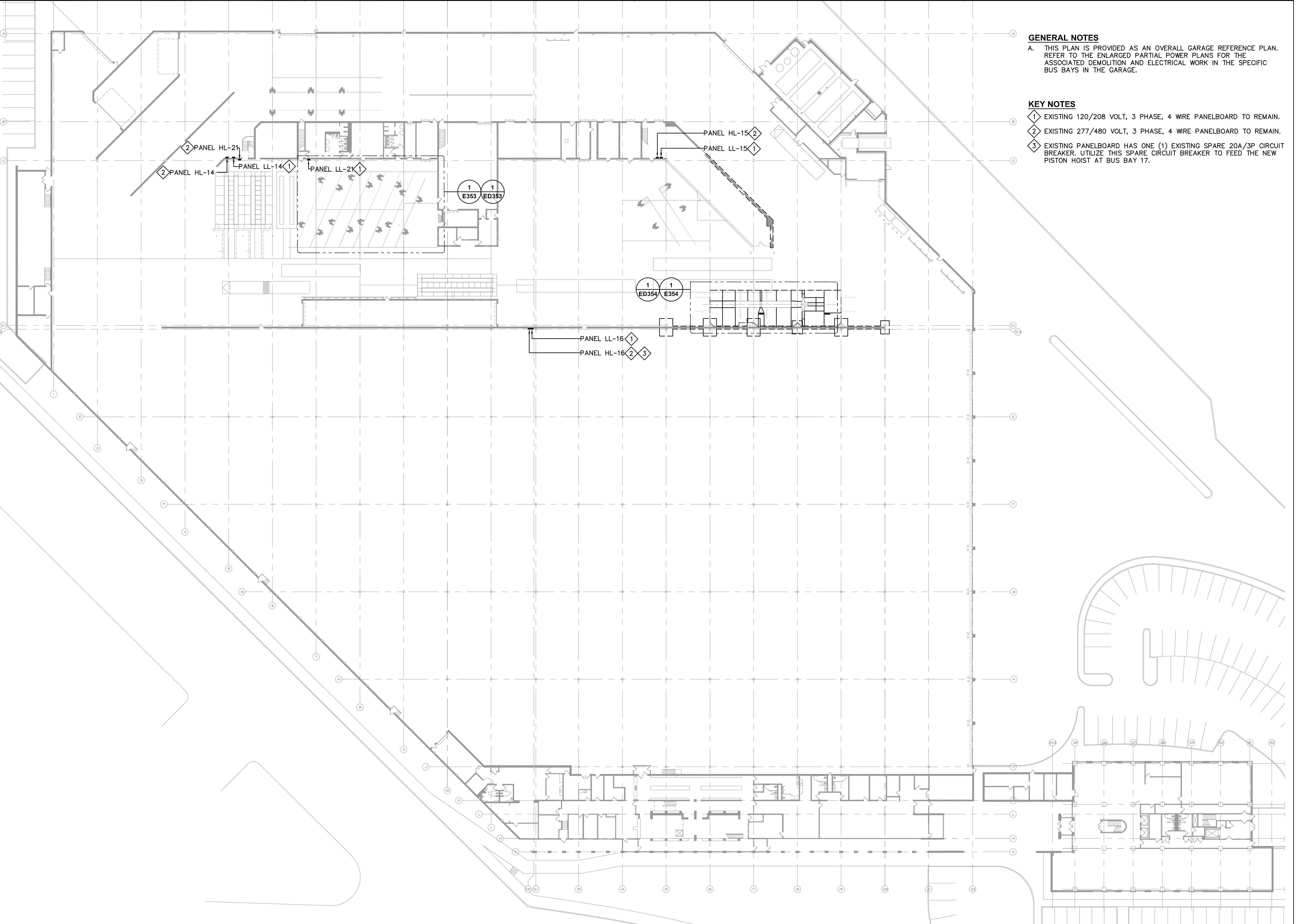
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: PAUL J. FETTINGER
LIC. NO.: 43079 DATE: 01/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJF

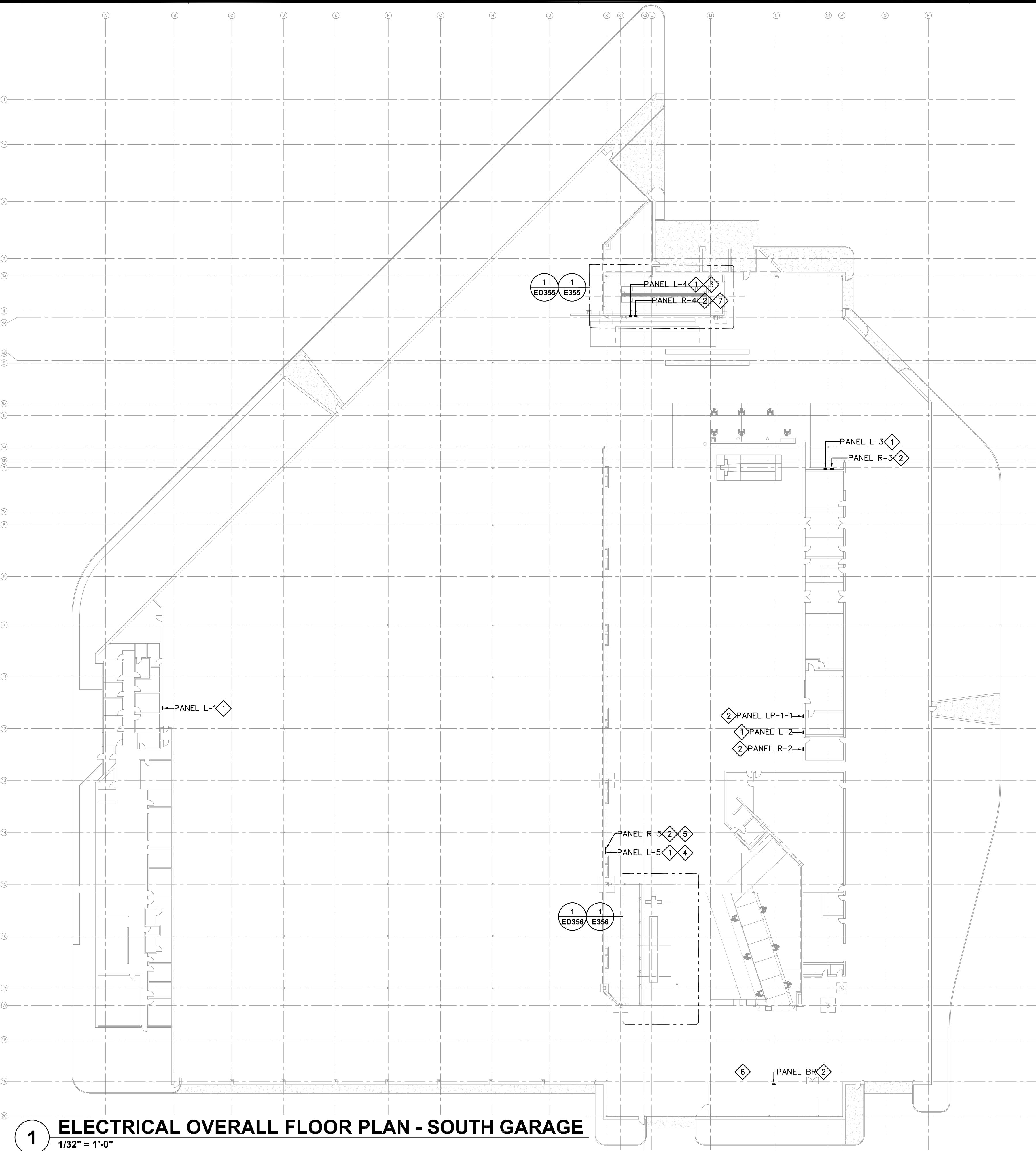
ELECTRICAL OVERALL
FLOOR PLAN - FTH
GARAGE

E101



1

ELECTRICAL OVERALL FLOOR PLAN - FTH GARAGE
1/32" = 1'-0"

**GENERAL NOTES**

A. THIS PLAN IS PROVIDED AS AN OVERALL GARAGE REFERENCE PLAN. REFER TO THE ENLARGED PARTIAL POWER PLANS FOR THE ASSOCIATED DEMOLITION AND ELECTRICAL WORK IN THE SPECIFIC BUS BAYS IN THE GARAGE.

KEY NOTES

- ① EXISTING 277/480 VOLT, 3 PHASE, 4 WIRE PANELBOARD TO REMAIN.
- ② EXISTING 120/208 VOLT, 3 PHASE, 4 WIRE PANELBOARD TO REMAIN.
- ③ EXISTING PANELBOARD HAS FIVE (5) EXISTING SPARE 20A/1P CIRCUIT BREAKERS.
- ④ EXISTING PANELBOARD HAS ELEVEN (11) EXISTING SPARE 20A/1P CIRCUIT BREAKERS.
- ⑤ EXISTING PANELBOARD HAS EIGHT (8) EXISTING SPARE 20A/1P CIRCUIT BREAKERS.
- ⑥ EXISTING MAIN ELECTRICAL ROOM IS LOCATED IN THIS AREA.
- ⑦ EXISTING PANELBOARD HAS FIFTEEN (15) EXISTING SPARE 20A/1P CIRCUIT BREAKERS.



METRO TRANSIT

560 SIXTH AVENUE NORTH
MINNEAPOLIS, MINNESOTA 55411



HALLBERG
ENGINEERING

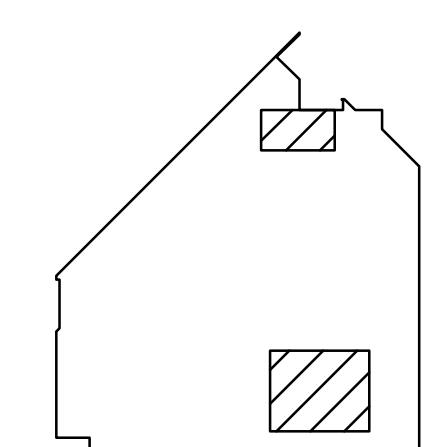
Mechanical / Electrical Consulting Engineers

1750 Commerce Court, White Bear Lake, MN 55110

(651) 748-1100 / Fax: (651) 748-4370

HOISTS REPLACEMENTS (FTH, STH, OHB)

HEI PROJECT NO. R25-5192.000
CONTRACT NO. 25P282



LOCATION KEY

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE

0 1

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING
NO.	DATE	ISSUE RECORD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: PAUL J. FETTINGER
LIC. NO.: 43079 DATE: 010/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJF

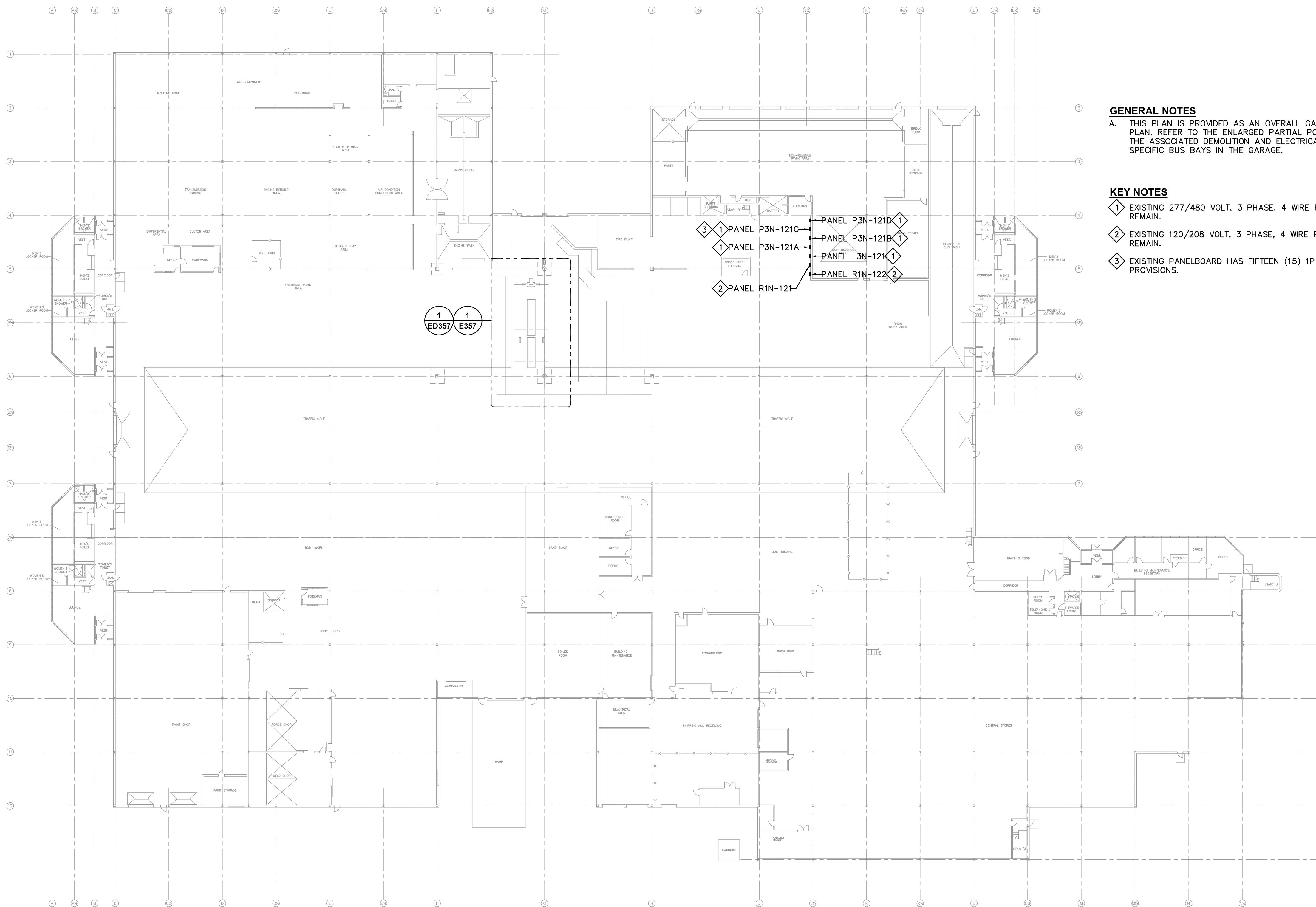
ELECTRICAL OVERALL
FLOOR PLAN - SOUTH
GARAGE

E102

1 ELECTRICAL OVERALL FLOOR PLAN - SOUTH GARAGE

1/32" = 1'-0"

**HOISTS
REPLACEMENTS
(FTH, STH, OHB)**

HEI PROJECT NO. R25-5192.000
CONTRACT NO. 25P282

ISSUED FOR BIDDING

0 10/10/2025 ISSUED FOR BIDDING
NO. DATE ISSUE RECORD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.



SIGNATURE:
PRINTED NAME: PAUL J. FETTINGER
LIC. NO.: 43079 DATE: 01/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJJ

**ELECTRICAL OVERALL
FLOOR PLAN - OHB**

GENERAL NOTES

- A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS, AND CEILINGS REQUIRED FOR ALL DEMOLITION AND NEW ELECTRICAL WORK. MATCH ADJACENT SURFACES.
- B. DEMOLISH ALL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRING, HANGERS, ETC. WHERE EXISTING BRANCH CIRCUITING IS INTERCEPTED MAINTAIN SERVICE TO ALL ITEMS THAT REMAIN.
- C. DEMOLISH ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN, UNLESS SPECIFICALLY NOTED OTHERWISE.
- D. PROVIDE BLANK COVERPLATES FOR ALL UNUSED DEVICE BOXES.
- E. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
- F. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOOR, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.

KEY NOTES

- ① EXISTING NEWER POWER CORD REEL PROVIDED AS PART OF THE 2024 - HOISTS REPLACEMENT PROJECT TO REMAIN AND SHOWN FOR REFERENCE ONLY.



METRO TRANSIT

560 SIXTH AVENUE NORTH
MINNEAPOLIS, MINNESOTA 55411



Mechanical / Electrical Consulting Engineers

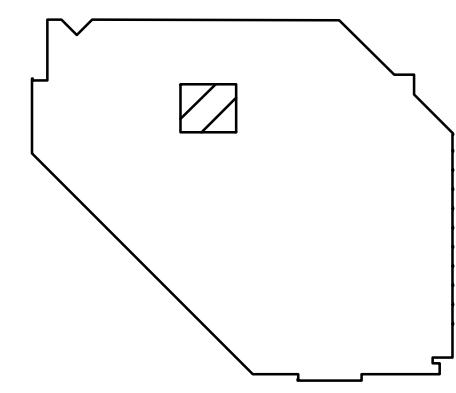
1750 Commerce Court, White Bear Lake, MN 55110

(651) 748-1100 / Fax: (651) 748-4370

**HOISTS
REPLACEMENTS
(FTH, STH, OHB)**

HEI PROJECT NO. R25-5192.000

CONTRACT NO. 25P282



FRED T. HEYWOOD
GARAGE
560 N 6th Ave,
Minneapolis, MN 55411

LOCATION KEY

ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE

0

1

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING
NO.	DATE	ISSUE RECORD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: PAUL J. FETTINGER
PRINTED NAME: PAUL J. FETTINGER
L/C. NO.: 43079 DATE: 010/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJF

**ENLARGED PARTIAL
POWER PLAN - DEMO -
FTH GARAGE**

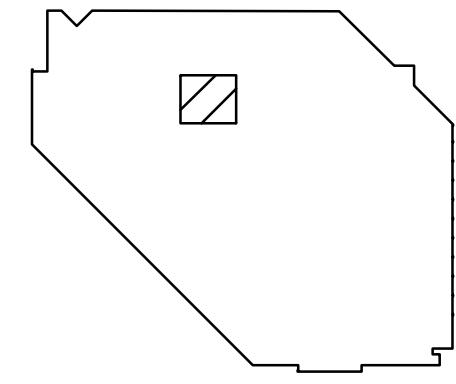
ED353

1

ENLARGED PARTIAL POWER PLAN - DEMO - FTH GARAGE

1/4" = 1'-0"

HOISTS
REPLACEMENTS
(FTH, STH, OHB)

 HEI PROJECT NO. R25-5192.000
 CONTRACT NO. 25P282

 FRED T. HEYWOOD
GARAGE
560 N 6th Ave,
Minneapolis, MN 55411


LOCATION KEY

 ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE

0 1

 BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING
NO.	DATE	ISSUE RECORD

 I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.



 SIGNATURE:
 PRINTED NAME: PAUL J. FETTINGER
 L/C. NO.: 43079 DATE: 010/10/2025

DESIGNED P.J.F DRAWN A.N.F CHECKED P.J.F

 ENLARGED PARTIAL
POWER PLAN - NEW -
FTH GARAGE

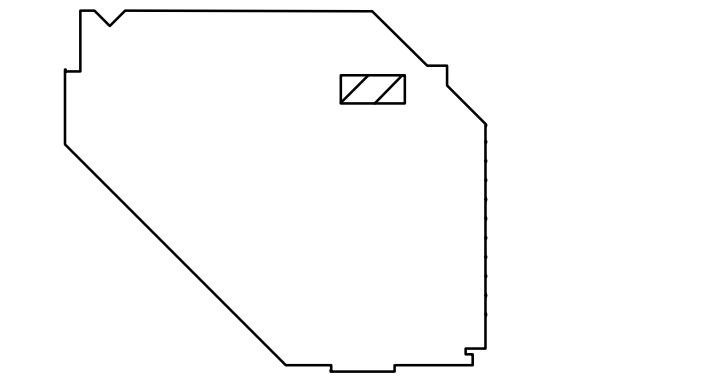
E353

GENERAL NOTES

- A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS, AND CEILINGS REQUIRED FOR DEMOLITION AND NEW ELECTRICAL WORK. MATCH ADJACENT SURFACES.
- B. MOUNT ALL NEW DEVICES SHOWN ON EXISTING WALLS IN THE GARAGE AREA USING SURFACE BOXES AND EXPOSED CONDUIT.
- C. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES, CORD REELS, DISCONNECTS, ELECTRICAL EQUIPMENT, ETC. WITH METRO TRANSIT PRIOR TO ROUGH-IN.
- D. REFER TO SPECIFIC LIFT MANUFACTURER EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- E. PROVIDE MINIMUM #10 AWG WIRING FOR ALL HOME RUNS, UNLESS NOTED OTHERWISE.
- F. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
- G. PROVIDE RIGIDLY MOUNTED UNISTRUT SUPPORTS SPANNING EXISTING ADJACENT JOISTS FOR MOUNTING ALL NEW OVERHEAD CONDUITS.

KEY NOTES

- ① EXISTING NEWER POWER CORD REEL PROVIDED AS PART OF THE 2024 - HOISTS REPLACEMENT PROJECT TO REMAIN AND SHOWN FOR REFERENCE ONLY.



FRED T. HEYWOOD
GARAGE
560 N 6th Ave,
Minneapolis, MN 55411



LOCATION KEY

ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE



BAR IS ONE INCH IN ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING
NO.	DATE	ISSUE RECORD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: PAUL J. FETTINGER
L/C. NO.: 43079 DATE: 010/10/2025

DESIGNED DRAWN CHECKED
PJF ANF PJF

**ENLARGED PARTIAL
POWER PLAN - DEMO -
FTH GARAGE**

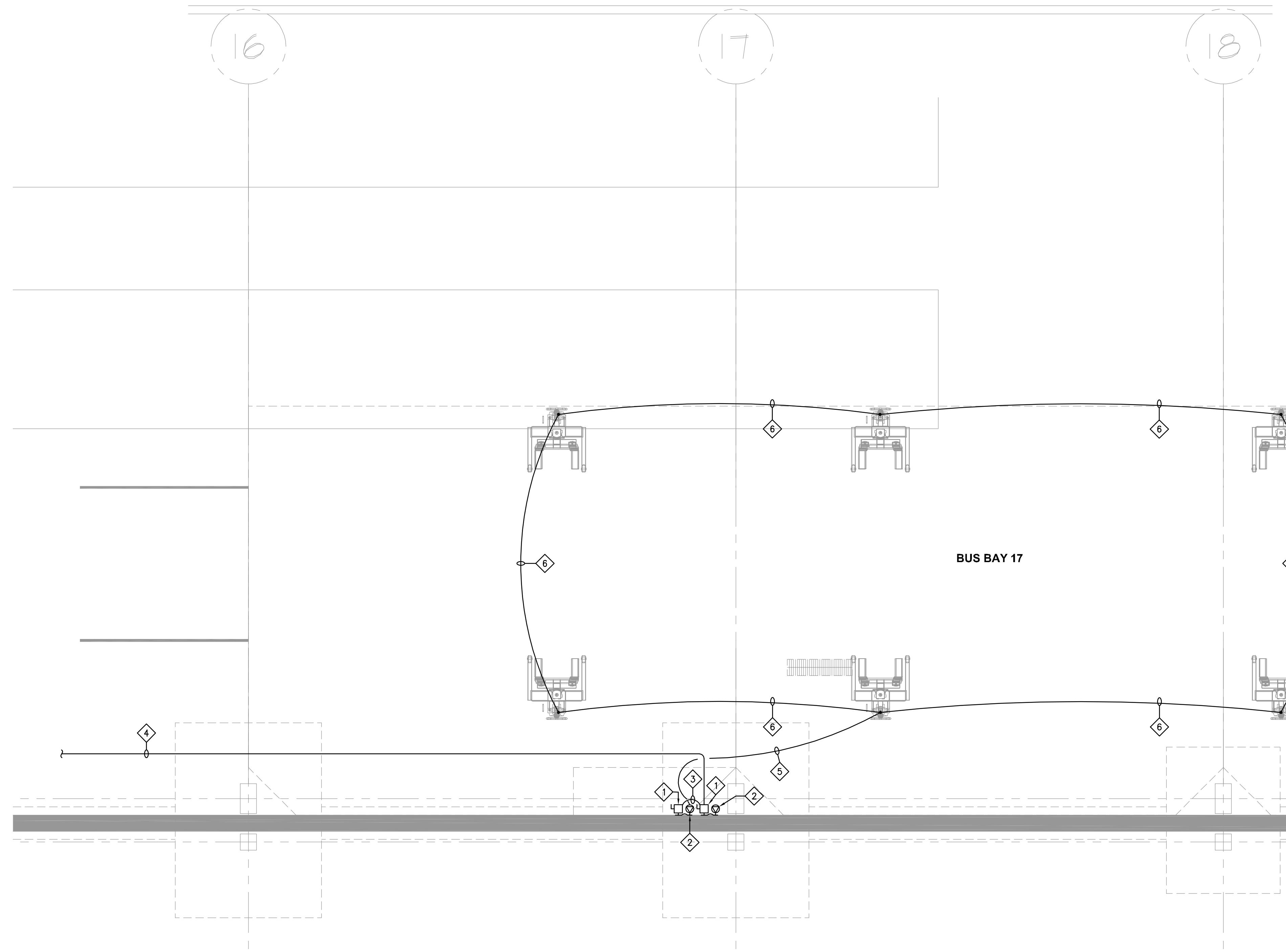
ED354

GENERAL NOTES

- A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS, AND CEILINGS REQUIRED FOR ALL DEMOLITION AND NEW ELECTRICAL WORK. MATCH ADJACENT SURFACES.
- B. DEMOLISH ALL ITEMS SCHEDULED FOR DEMOLITION COMPLETE, DO NOT ABANDON CONDUIT, WIRING, HANGERS, ETC. WHERE EXISTING BRANCH CIRCUITING IS INTERCEPTED MAINTAIN SERVICE TO ALL ITEMS THAT REMAIN.
- C. DEMOLISH ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN, UNLESS SPECIFICALLY NOTED OTHERWISE.
- D. PROVIDE BLANK COVERPLATES FOR ALL UNUSED DEVICE BOXES.
- E. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
- F. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOOR, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.

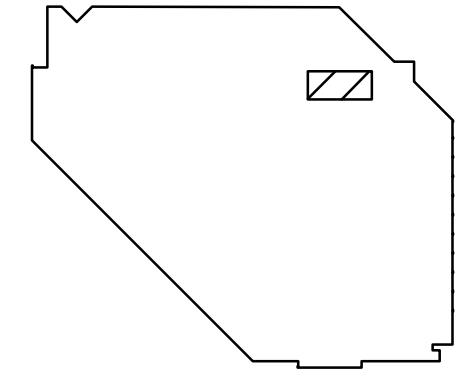
KEY NOTES

- ① EXISTING 480 VOLT DISCONNECT TO REMAIN.
- ② EXISTING SPECIAL PURPOSE RECEPTACLE AND ASSOCIATED CONDUIT AND WIRING FROM THE LOAD SIDE OF THE EXISTING DISCONNECT TO REMAIN.
- ③ EXISTING CONDUIT AND WIRING BETWEEN EXISTING DISCONNECTS TO REMAIN.
- ④ EXISTING INCOMING EXPOSED CONDUIT AND WIRING FROM THE ADJACENT EXISTING BUS BAY 18 DISCONNECT TO REMAIN.
- ⑤ DEMOLISH EXISTING SO CORD AND ASSOCIATED PLUGS/RECEPTACLES BETWEEN THE EXISTING SPECIAL PURPOSE RECEPTACLE AND THE FIRST EXISTING 480 VOLT PORTABLE KONI LIFT.
- ⑥ DEMOLISH EXISTING SO CORD AND ASSOCIATED PLUGS/RECEPTACLES BETWEEN EXISTING 480 VOLT PORTABLE KONI LIFTS.



**HOISTS
REPLACEMENTS
(FTH, STH, OHB)**

HEI PROJECT NO. R25-5192.000
CONTRACT NO. 25P282



FRED T. HEYWOOD
GARAGE
560 N 6th Ave,
Minneapolis, MN 55411



LOCATION KEY

ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE

0 1
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING
NO.	DATE	ISSUE RECORD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: PAUL J. FETTINGER
L/C. NO.: 43079 DATE: 01/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJF

**ENLARGED PARTIAL
POWER PLAN - NEW -
FTH GARAGE**

E354

GENERAL NOTES

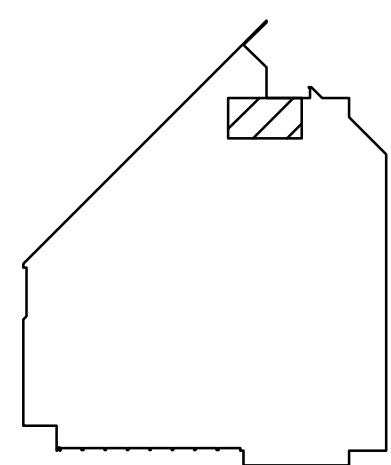
- A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS, AND CEILINGS REQUIRED FOR DEMOLITION AND NEW ELECTRICAL WORK. MATCH ADJACENT SURFACES.
- B. MOUNT ALL NEW DEVICES SHOWN ON EXISTING WALLS IN THE GARAGE AREA USING SURFACE BOXES AND EXPOSED CONDUIT.
- C. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES, CORD REELS, DISCONNECTS, ELECTRICAL EQUIPMENT, ETC. WITH METRO TRANSIT PRIOR TO ROUGH-IN.
- D. REFER TO SPECIFIC LIFT MANUFACTURER EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- E. PROVIDE MINIMUM #10 AWG WIRING FOR ALL HOME RUNS, UNLESS NOTED OTHERWISE.
- F. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOOR, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
- G. PROVIDE RIGIDLY MOUNTED UNISTRUT SUPPORTS SPANNING EXISTING ADJACENT JOISTS FOR MOUNTING ALL NEW OVERHEAD CONDUITS.

KEY NOTES

- ① NEW PISTON BUS HOIST CONTROLLER. COORDINATE EXACT MOUNTING LOCATION WITH METRO TRANSIT PRIOR TO ROUGH-IN. PROVIDE NEMA 4X, 30 AMP, 480 VOLT, 3 POLE, NON-FUSED DISCONNECT TO SERVE NEW BUS HOIST CONTROLLER. MOUNT DISCONNECT ON WALL ADJACENT TO CONTROLLER. CONNECT TO EXISTING 277/480 VOLT, 3 PHASE, 4 WIRE PANELBOARD HL-16. REMOVE THE EXISTING 20A/3P CIRCUIT BREAKER AND TURN OVER TO OWNER TO KEEP FOR ATTIC STOCK. PROVIDE NEW 30A/3P CIRCUIT BREAKER IN EXISTING PANELBOARD. MATCH EXISTING MAKE, MODEL, AIC RATING, ETC. PROVIDE 3/4"C, 3#10 + 1#10 GROUND FROM PANEL, OVERHEAD TO NEW BUS HOIST CONTROLLER AREA, DOWN WALL, TO DISCONNECT, TO NEW BUS HOIST CONTROLLER. PROVIDE CONDUIT SEAL-OFFS AS REQUIRED. PROVIDE COMPLETE INSTALLATION OF HOIST RACEWAYS, PATHWAYS, AND WIRING AS SPECIFIED IN THE HOIST MANUFACTURER'S DESIGN DETAILS INCLUDING ALL REQUIRED CONDUIT SEAL-OFFS, TRANSITIONS, ETC.
- ② PROVIDE TWO (2) 1" RIGID METAL CONDUIT ROUTED UNDERGROUND FROM THE NEW BUS HOIST CONTROLLER TO THE FRONT AND MIDDLE PISTON AREAS. REFER TO THE HOIST MANUFACTURER'S DESIGN DETAILS FOR ADDITIONAL INFORMATION. PROVIDE CONDUIT SEAL-OFFS WHERE THE UNDERGROUND CONDUITS STUB UP WITHIN THE NEW BUS HOIST CONTROLLER.
- ③ PROVIDE EXPLOSION PROOF JUNCTION BOX FOR EACH 1" CONDUIT AT THE FRONT AND MIDDLE PISTON AREAS. PROVIDE APPLETION GRUE 100-A OR PRE APPROVED EQUAL. REFER TO THE HOIST MANUFACTURER'S DESIGN DETAILS FOR ADDITIONAL INFORMATION.

HOISTS REPLACEMENTS (FTH, STH, OHB)

HEI PROJECT NO. R25-5192.000
CONTRACT NO. 25P282



N

LOCATION KEY

ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE

0 1
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0 10/10/2025
NO. DATE
ISSUED FOR BIDDING
ISSUE RECORD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: PAUL J. FETTINGER
L/C. NO.: 43079
DATE: 01/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJF

**ENLARGED PARTIAL
POWER PLAN - DEMO -
SOUTH GARAGE**

ED355

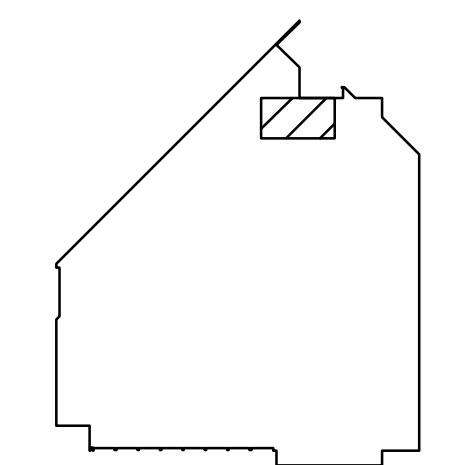
GENERAL NOTES

- A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS, AND CEILINGS REQUIRED FOR ALL DEMOLITION AND NEW ELECTRICAL WORK. MATCH ADJACENT SURFACES.
- B. DEMOLISH ALL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRING, HANGERS, ETC. WHERE EXISTING BRANCH CIRCUITING IS INTERRUPTED. MAINTAIN SERVICE TO ALL ITEMS THAT REMAIN.
- C. DEMOLISH ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN, UNLESS SPECIFICALLY NOTED OTHERWISE.
- D. PROVIDE BLANK COVERPLATES FOR ALL UNUSED DEVICE BOXES.
- E. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
- F. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOOR, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.

KEY NOTES

- ① EXISTING EAST OVERHEAD DOOR OPERATOR TO REMAIN.
- ② EXISTING EAST OVERHEAD DOOR DISCONNECT TO REMAIN.
- ③ EXISTING EAST OVERHEAD DOOR OPEN/CLOSE/STOP CONTROL STATION TO REMAIN.
- ④ EXISTING WEST OVERHEAD DOOR OPERATOR TO REMAIN.
- ⑤ EXISTING WEST OVERHEAD DOOR DISCONNECT TO REMAIN.
- ⑥ EXISTING WEST OVERHEAD DOOR OPEN/CLOSE/STOP CONTROL STATION TO REMAIN.
- ⑦ EXISTING 277/480 VOLT, 3 PHASE, 4 WIRE PANELBOARD L-4 TO REMAIN.
- ⑧ EXISTING 120/208 VOLT, 3 PHASE, 4 WIRE PANELBOARD R-4 TO REMAIN.
- ⑨ EXISTING RECEPTACLE TO REMAIN.
- ⑩ DEMOLISH EXISTING UNDERGROUND AND EXPOSED CONDUIT AND WIRING FROM THE EXISTING PANELBOARD R-4 TO THE EXISTING RECEPTACLE TO ACCOMMODATE THE NEW PARALLEL HOIST. FIELD VERIFY EXACT REQUIREMENTS. PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING. REFER TO SHEET E355 FOR ADDITIONAL INFORMATION.
- ⑪ DEMOLISH EXISTING UNDERGROUND AND EXPOSED CONDUIT AND WIRING BETWEEN EXISTING RECEPTACLES TO ACCOMMODATE THE NEW PARALLEL HOIST. FIELD VERIFY EXACT REQUIREMENTS. PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING. REFER TO SHEET E355 FOR ADDITIONAL INFORMATION.
- ⑫ EXISTING PRESSURE WASHER DISCONNECT TO REMAIN.
- ⑬ EXISTING EXPOSED CONDUIT AND WIRING FROM THE EXISTING LB TO THE EXISTING PRESSURE WASHER DISCONNECT TO REMAIN.
- ⑭ EXISTING EXPOSED CONDUIT AND WIRING FROM THE EXISTING LB TO THE EXISTING PRESSURE WASHER TO REMAIN.
- ⑮ DEMOLISH EXISTING UNDERGROUND AND EXPOSED CONDUIT AND WIRING FROM THE EXISTING PANELBOARD L-4 TO THE EXISTING LB TO ACCOMMODATE THE NEW PARALLEL HOIST. FIELD VERIFY EXACT REQUIREMENTS. PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING. REFER TO SHEET E355 FOR ADDITIONAL INFORMATION.
- ⑯ DEMOLISH EXISTING UNDERGROUND AND EXPOSED CONDUIT AND WIRING FROM THE EXISTING PANELBOARD R-4 TO THE EXISTING LB TO ACCOMMODATE THE NEW PARALLEL HOIST. FIELD VERIFY EXACT REQUIREMENTS. PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING. REFER TO SHEET E355 FOR ADDITIONAL INFORMATION.
- ⑰ EXISTING EXPOSED OVERHEAD CONDUIT AND WIRING ROUTED THROUGH THE COMPACTOR ROOM TO REMAIN.
- ⑱ DEMOLISH EXISTING UNDERGROUND AND EXPOSED CONDUIT AND WIRING FROM THE EXISTING PANELBOARD L-4 TO THE EXISTING COMPACTOR ROOM TO ACCOMMODATE THE NEW PARALLEL HOIST. DEMOLISH THE EXISTING EXPOSED CONDUIT AND WIRING ROUTED UP THE WALL OF THE EXISTING COMPACTOR ROOM TO THE EXPOSED CEILING SPACE. FIELD VERIFY EXACT REQUIREMENTS. PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING. REFER TO SHEET E355 FOR ADDITIONAL INFORMATION.
- ⑲ EXISTING HOTSY BEING REMOVED AND REINSTALLED IN THE SAME LOCATION BY OTHERS TO ALLOW FOR THE NEW CONCRETE AND HOIST TO BE INSTALLED. DISCONNECT EXISTING ELECTRICAL CONNECTIONS TO THE EXISTING HOTSY AND MAINTAIN FOR RECONNECTION. REFER TO SHEET E355 FOR ADDITIONAL INFORMATION.

**HOISTS
REPLACEMENTS
(FTH, STH, OHB)**

HEI PROJECT NO. R25-5192.000
CONTRACT NO. 25P282


N

LOCATION KEY

ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE

0 1

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0 10/10/2025 ISSUED FOR BIDDING ISSUE RECORD
NO. DATE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
PRINTED NAME: PAUL J. FETTINGER
LIC. NO.: 43079 DATE: 01/10/2025

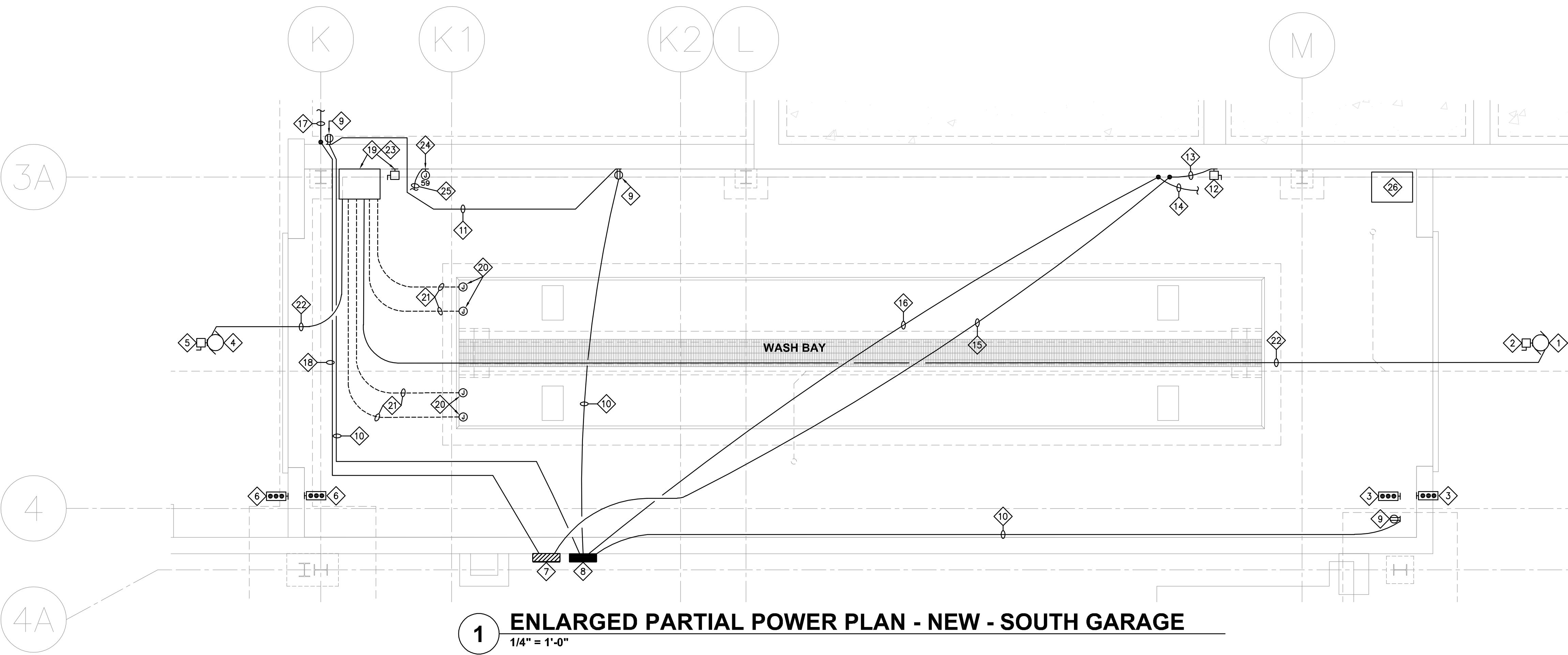
DESIGNED PJF DRAWN ANF CHECKED PJF

**ENLARGED PARTIAL
POWER PLAN - NEW -
SOUTH GARAGE**
E355
GENERAL NOTES

- A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS, AND CEILINGS REQUIRED FOR ALL DEMOLITION AND NEW ELECTRICAL WORK. MATCH ADJACENT SURFACES.
- B. MOUNT ALL NEW DEVICES SHOWN ON EXISTING WALLS IN THE GARAGE AREA USING SURFACE BOXES AND EXPOSED CONDUIT.
- C. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES, CORD REELS, DISCONNECTS, ELECTRICAL EQUIPMENT, ETC. WITH METRO TRANSIT PRIOR TO ROUGH-IN.
- D. REFER TO SPECIFIC LIFT MANUFACTURER EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
- E. PROVIDE MINIMUM #10 AWG WIRING FOR ALL HOME RUNS, UNLESS NOTED OTHERWISE.
- F. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
- G. PROVIDE RIGIDLY MOUNTED UNISTRUT SUPPORTS SPANNING EXISTING ADJACENT JOISTS FOR MOUNTING ALL NEW OVERHEAD CONDUITS.

KEY NOTES

- ① EXISTING EAST OVERHEAD DOOR OPERATOR TO REMAIN.
- ② EXISTING EAST OVERHEAD DOOR DISCONNECT TO REMAIN.
- ③ EXISTING EAST OVERHEAD DOOR OPEN/CLOSE/STOP CONTROL STATION TO REMAIN.
- ④ EXISTING WEST OVERHEAD DOOR OPERATOR TO REMAIN.
- ⑤ EXISTING WEST OVERHEAD DOOR DISCONNECT TO REMAIN.
- ⑥ EXISTING WEST OVERHEAD DOOR OPEN/CLOSE/STOP CONTROL STATION TO REMAIN.
- ⑦ EXISTING 277/480 VOLT, 3 PHASE, 4 WIRE PANELBOARD L-4 TO REMAIN.
- ⑧ EXISTING 120/208 VOLT, 3 PHASE, 4 WIRE PANELBOARD R-4 TO REMAIN.
- ⑨ EXISTING RECEPTACLE TO REMAIN.
- ⑩ PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING FROM THE EXISTING PANELBOARD R-4 TO THE EXISTING RECEPTACLE. FIELD VERIFY EXACT REQUIREMENTS AND COORDINATE WITH DEMOLITION WORK.
- ⑪ PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING BETWEEN EXISTING RECEPTACLES. FIELD VERIFY EXACT REQUIREMENTS AND COORDINATE WITH DEMOLITION WORK.
- ⑫ EXISTING PRESSURE WASHER DISCONNECT TO REMAIN.
- ⑬ EXISTING EXPOSED CONDUIT AND WIRING FROM THE EXISTING LB TO THE EXISTING PRESSURE WASHER DISCONNECT TO REMAIN.
- ⑭ EXISTING EXPOSED CONDUIT AND WIRING FROM THE EXISTING LB TO THE EXISTING PRESSURE WASHER TO REMAIN.
- ⑮ PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING FROM THE EXISTING PANELBOARD L-4 TO THE EXISTING LB. FIELD VERIFY EXACT REQUIREMENTS AND COORDINATE WITH DEMOLITION WORK.
- ⑯ PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING FROM THE EXISTING PANELBOARD R-4 TO THE EXISTING LB. FIELD VERIFY EXACT REQUIREMENTS AND COORDINATE WITH DEMOLITION WORK.
- ⑰ EXISTING EXPOSED OVERHEAD CONDUIT AND WIRING ROUTED THROUGH THE COMPACTOR ROOM TO REMAIN.
- ⑱ PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING FROM THE EXISTING PANELBOARD L-4 TO THE EXISTING COMPACTOR ROOM EXPOSED CEILING SPACE. FIELD VERIFY EXACT REQUIREMENTS AND COORDINATE WITH DEMOLITION WORK.
- ⑲ NEW PARALLEL HOIST CONTROL STATION. COORDINATE EXACT MOUNTING LOCATION WITH METRO TRANSIT PRIOR TO ROUGH-IN. PROVIDE NEMA 4X, 30 AMP, 480 VOLT, 3 POLE, FUSED DISCONNECT TO SERVE NEW HOIST CONTROL STATION. MOUNT ON WALL ADJACENT TO NEW HOIST CONTROL STATION. FUSE DISCONNECT AT 25 AMPS PER MANUFACTURER'S RECOMMENDATIONS. CONNECT TO EXISTING 277/480 VOLT, 3 PHASE, 4 WIRE PANELBOARD L-4. REMOVE THREE (3) EXISTING SPARE 20A/1P CIRCUIT BREAKERS (CIRCUITS 32, 34, AND 36) AND TURN OVER TO OWNER TO KEEP FOR ATTIC STOCK. PROVIDE NEW 30A/3P CIRCUIT BREAKER IN EXISTING PANELBOARD. MATCH EXISTING MAKE, MODEL, AIC RATING, ETC. PROVIDE 3/4", 3#10 AND 1#10 GROUND FROM PANEL, OVERHEAD TO NEW HOIST CONTROL STATION AREA, DOWN TO DISCONNECT, TO NEW HOIST CONTROL STATION. PROVIDE CONDUIT SEAL-OFFS FOR ALL UNDERGROUND CONDUIT ROUTED UP TO/WITHIN THE NEW HOIST CONTROL STATION. PROVIDE COMPLETE INSTALLATION OF HOIST RACEWAYS, PATHWAYS, AND WIRING AS SPECIFIED IN THE HOIST MANUFACTURER'S DESIGN DETAILS INCLUDING ALL REQUIRED CONDUIT SEAL-OFFS, TRANSITIONS, ETC.
- ⑳ PROVIDE EXPLOSION PROOF JUNCTION BOXES FOR EACH 1" CONDUIT AT EACH NEW PARALLEL HOIST SERVICE LEG LOCATION. PROVIDE APPLETONE GRUE 100-A OR PRE APPROVED EQUAL. REFER TO THE HOIST MANUFACTURER'S DESIGN DETAILS AND DETAILS 2 AND 3 ON SHEET E500 FOR ADDITIONAL INFORMATION.
- ㉑ PROVIDE TWO (2) 1" EMPTY RIGID METAL CONDUIT FROM THE NEW HOIST CONTROL STATION TO EACH NEW PARALLEL HOIST SERVICE LEG LOCATION. COORDINATE EXACT ROUTING OF CONDUITS AND LOCATION OF JUNCTION BOXES WITH THE PARALLEL HOIST INSTALLER PRIOR TO ROUGH-IN. WIRING/CABLING FROM THE NEW HOIST CONTROL STATION TO EACH NEW PARALLEL HOIST SERVICE LEG LOCATION IS PROVIDED BY THE PARALLEL HOIST VENDOR/INSTALLER. REFER TO THE HOIST MANUFACTURER'S DESIGN DETAILS AND DETAIL 1, 2, AND 3 ON SHEET E500 FOR ADDITIONAL INFORMATION.
- ㉒ PROVIDE NEW EXPOSED OVERHEAD CONTROL/INTERFACE CONDUIT AND WIRING FROM THE EXISTING OVERHEAD DOOR OPERATOR TO THE NEW HOIST CONTROL STATION. PROVIDE CONDUIT SEAL-OFFS AS REQUIRED.
- ㉓ COORDINATE THE CONTROL/INTERFACE REQUIREMENTS WITH THE NEW PARALLEL HOIST MANUFACTURER/INSTALLER AND THE EXISTING RYTEC OVERHEAD DOOR MANUFACTURER. CONNECT SUCH THAT THE NEW HOIST CANNOT OPERATE UNTIL BOTH OVERHEAD DOORS ARE CLOSED.
- ㉔ PROVIDE NEW NEMA 4X JUNCTION BOX WITH 120 VAC CIRCUIT FOR USE BY THE MECHANICAL CONTROLS CONTRACTOR FOR CONNECTION TO THE WASH BAY WATER SENSORS, SOLENOID CONTROL VALVES, ETC.
- ㉕ PROVIDE DEDICATED 120 VAC CIRCUIT FROM SPARE 20A/1P CIRCUIT BREAKER IN THE EXISTING PANELBOARD R-4 (CIRCUIT #59). PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING (3/4", 2#12 AND 1#12 GROUND) FROM THE EXISTING PANELBOARD TO THE NEW JUNCTION BOX.
- ㉖ EXISTING HOTSY BEING REINSTALLED IN THE SAME LOCATION BY OTHERS AFTER THE NEW CONCRETE AND HOIST ARE INSTALLED. RECONNECT THE EXISTING ELECTRICAL CONNECTIONS TO THE EXISTING HOTSY. COORDINATE WITH DEMOLITION WORK.




 N
LOCATION KEY

 ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE

0 1

 BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING
NO.	DATE	ISSUE RECORD

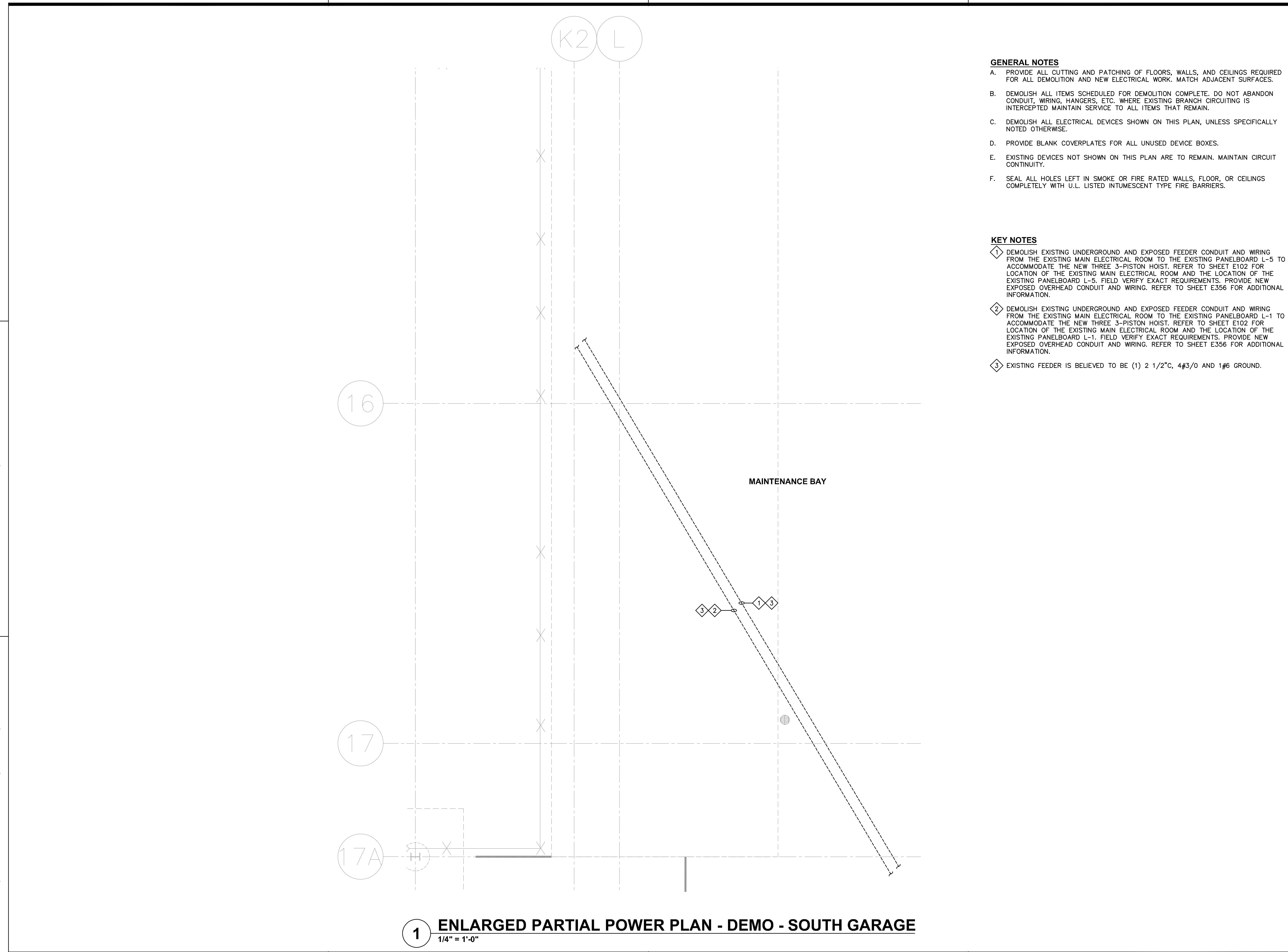
 I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

 SIGNATURE: 
 PRINTED NAME: PAUL J. FETTINGER
 L/C. NO.: 43079
 DATE: 010/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJF

 ENLARGED PARTIAL
POWER PLAN - DEMO -
SOUTH GARAGE

ED356


GENERAL NOTES

- A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS, AND CEILINGS REQUIRED FOR ALL DEMOLITION AND NEW ELECTRICAL WORK. MATCH ADJACENT SURFACES.
- B. DEMOLISH ALL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRING, HANGERS, ETC. WHERE EXISTING BRANCH CIRCUITING IS INTERCEPTED. MAINTAIN SERVICE TO ALL ITEMS THAT REMAIN.
- C. DEMOLISH ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN, UNLESS SPECIFICALLY NOTED OTHERWISE.
- D. PROVIDE BLANK COVERPLATES FOR ALL UNUSED DEVICE BOXES.
- E. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
- F. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOOR, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.

KEY NOTES

- ① DEMOLISH EXISTING UNDERGROUND AND EXPOSED FEEDER CONDUIT AND WIRING FROM THE EXISTING MAIN ELECTRICAL ROOM TO THE EXISTING PANELBOARD L-5 TO ACCOMMODATE THE NEW THREE 3-PISTON HOIST. REFER TO SHEET E102 FOR LOCATION OF THE EXISTING MAIN ELECTRICAL ROOM AND THE LOCATION OF THE EXISTING PANELBOARD L-5. FIELD VERIFY EXACT REQUIREMENTS. PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING. REFER TO SHEET E356 FOR ADDITIONAL INFORMATION.
- ② DEMOLISH EXISTING UNDERGROUND AND EXPOSED FEEDER CONDUIT AND WIRING FROM THE EXISTING MAIN ELECTRICAL ROOM TO THE EXISTING PANELBOARD L-1 TO ACCOMMODATE THE NEW THREE 3-PISTON HOIST. REFER TO SHEET E102 FOR LOCATION OF THE EXISTING MAIN ELECTRICAL ROOM AND THE LOCATION OF THE EXISTING PANELBOARD L-1. FIELD VERIFY EXACT REQUIREMENTS. PROVIDE NEW EXPOSED OVERHEAD CONDUIT AND WIRING. REFER TO SHEET E356 FOR ADDITIONAL INFORMATION.
- ③ EXISTING FEEDER IS BELIEVED TO BE (1) 2 1/2" C, 4#3/0 AND 1#6 GROUND.

ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING
NO.	DATE	ISSUE RECORD

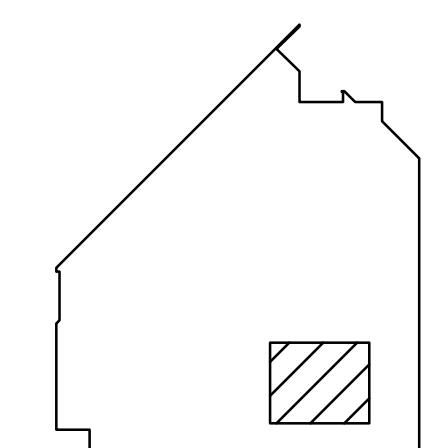
 I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

 SIGNATURE: 
 PRINTED NAME: PAUL J. FETTINGER
 L/C. NO.: 43079
 DATE: 010/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJF

 ENLARGED PARTIAL
POWER PLAN - DEMO -
SOUTH GARAGE

ED356

**HOISTS
REPLACEMENTS
(FTH, STH, OHB)**
HEI PROJECT NO. R25-5192.000
CONTRACT NO. 25P282

LOCATION KEY

 ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE

 BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

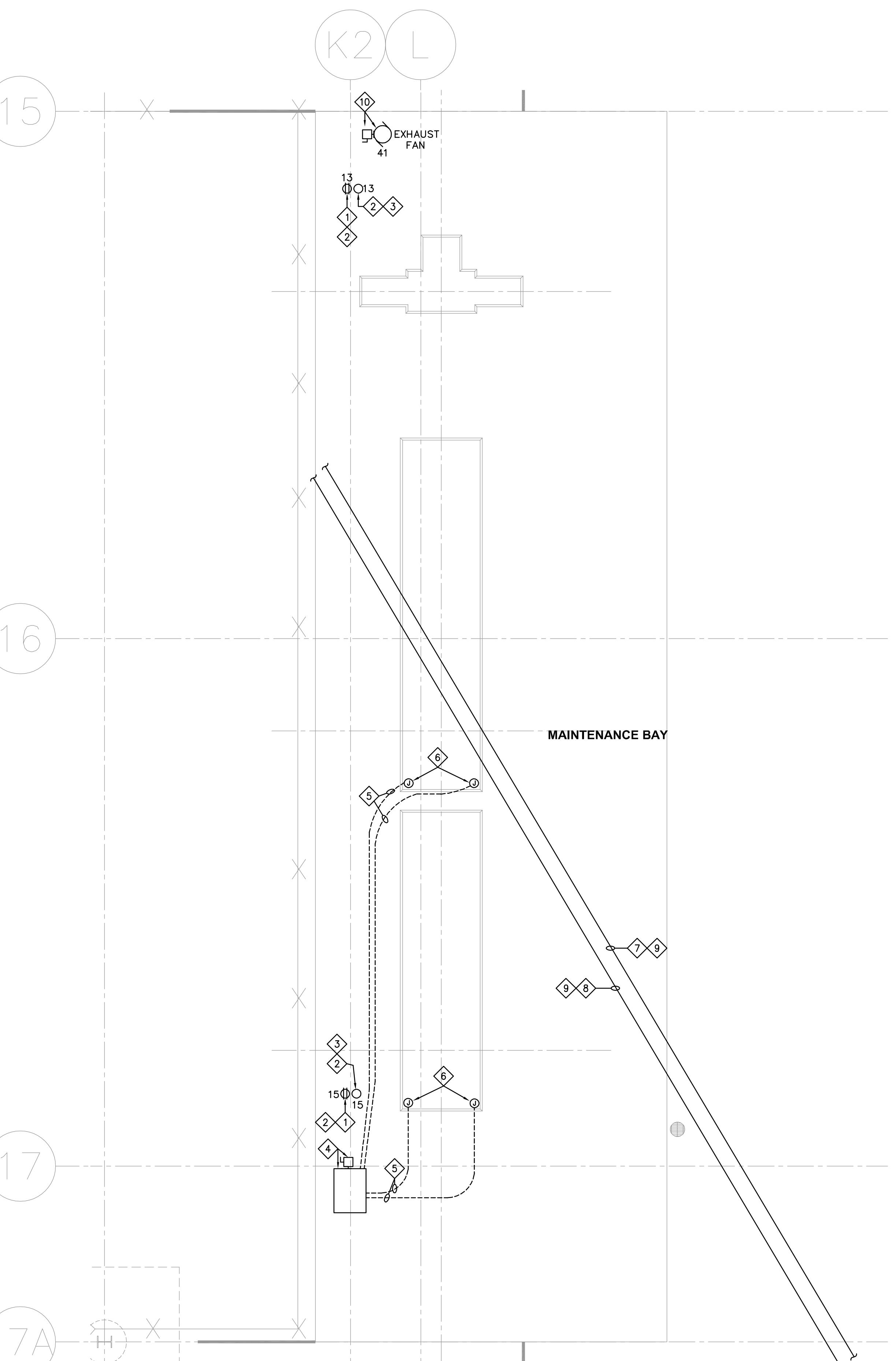
ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING
		ISSUE RECORD

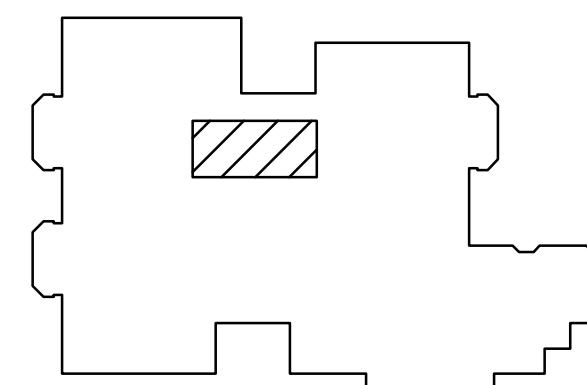
 I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

 SIGNATURE:
PRINTED NAME: PAUL J. FETTINGER
LIC. NO.: 43079 DATE: 01/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJF

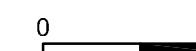
**ENLARGED PARTIAL
POWER PLAN - NEW -
SOUTH GARAGE**
E356

1 ENLARGED PARTIAL POWER PLAN - NEW - SOUTH GARAGE
1/4" = 1'-0"

**HOISTS
REPLACEMENTS
(FTH, STH, OHB)**

HEI PROJECT NO. R25-5192.000
CONTRACT NO. 25P282


LOCATION KEY

ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE



BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING
NO.	DATE	ISSUE RECORD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.



SIGNATURE: Paul J. Fettinger
PRINTED NAME: PAUL J. FETTINGER
L/C. NO.: 43079 DATE: 010/10/2025

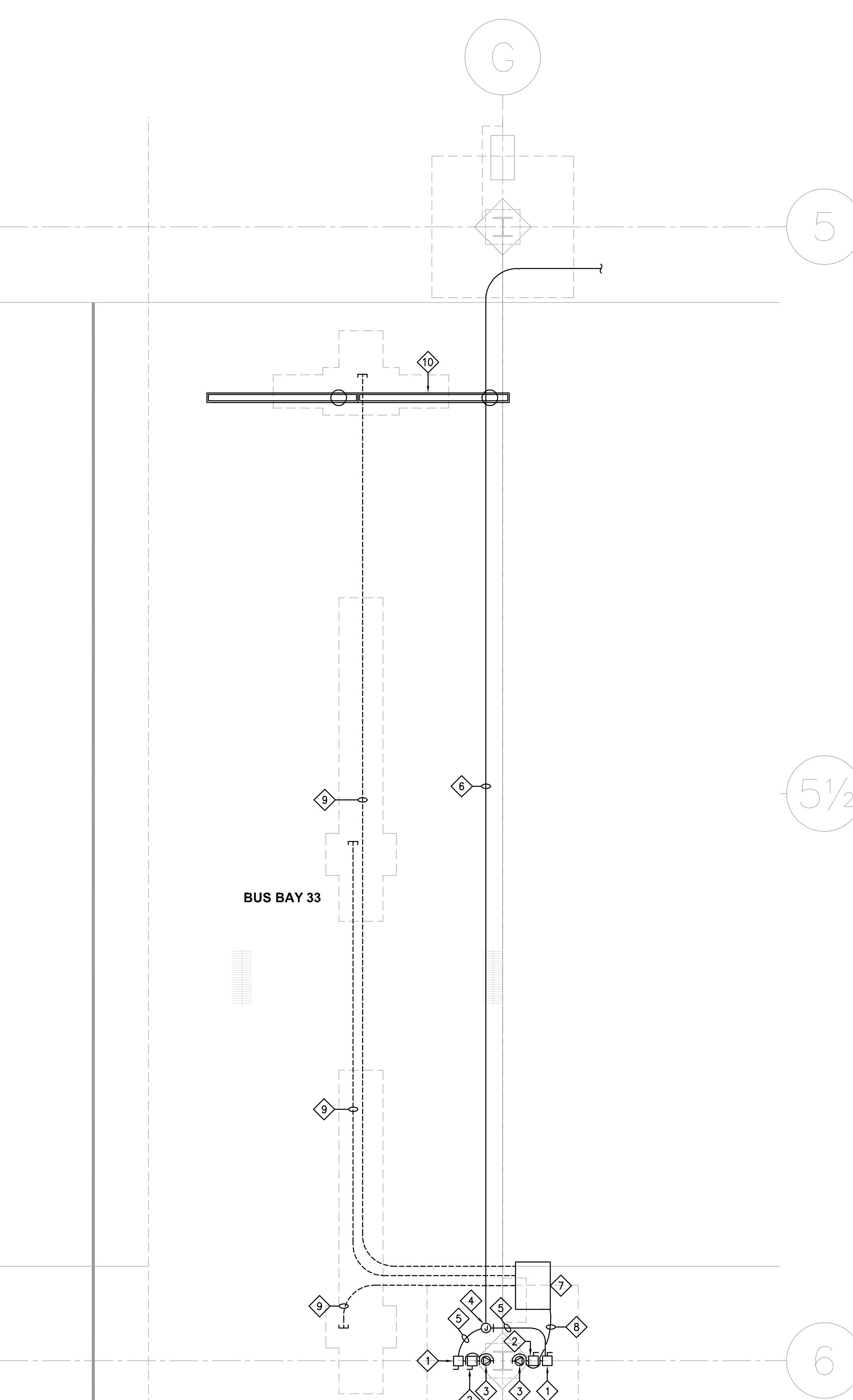
DESIGNED PJF DRAWN ANF CHECKED PJJ

**ENLARGED PARTIAL
POWER PLAN - DEMO -
OHB**
ED357
GENERAL NOTES

- A. PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS, AND CEILINGS REQUIRED FOR ALL DEMOLITION AND NEW ELECTRICAL WORK. MATCH ADJACENT SURFACES.
- B. DEMOLISH ALL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRING, HANGERS, ETC. WHERE EXISTING BRANCH CIRCUITING IS INTERRUPTED. MAINTAIN SERVICE TO ALL ITEMS THAT REMAIN.
- C. DEMOLISH ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN, UNLESS SPECIFICALLY NOTED OTHERWISE.
- D. PROVIDE BLANK COVERPLATES FOR ALL UNUSED DEVICE BOXES.
- E. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
- F. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOOR, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.

KEY NOTES

- ① EXISTING 480 VOLT DISCONNECT TO REMAIN.
- ② EXISTING 480 VOLT DISCONNECT AND ASSOCIATED CONDUIT AND WIRING FROM THE EXISTING UPSTREAM DISCONNECT TO REMAIN.
- ③ EXISTING SPECIAL PURPOSE RECEPTACLE AND ASSOCIATED CONDUIT AND WIRING FROM THE LOAD SIDE OF THE EXISTING DISCONNECT TO REMAIN.
- ④ EXISTING JUNCTION BOX MOUNTED HIGH ON COLUMN TO REMAIN.
- ⑤ EXISTING CONDUIT AND WIRING FROM THE EXISTING JUNCTION BOX TO THE EXISTING DISCONNECT TO REMAIN.
- ⑥ EXISTING EXPOSED OVERHEAD INCOMING CONDUIT AND WIRING FROM EXISTING PANELS P3N-121A,B,C,D TO THE EXISTING JUNCTION BOX TO REMAIN.
- ⑦ DISCONNECT ELECTRICAL CONNECTIONS TO THE EXISTING PISTON HOIST CONTROLLER AND ASSOCIATED PUMP MOUNTED BELOW THE EXISTING CONTROLLER.
- ⑧ DEMOLISH EXISTING EXPOSED CONDUIT AND WIRING FROM THE EXISTING DISCONNECT TO THE EXISTING HOIST CONTROLLER.
- ⑨ DEMOLISH EXISTING UNDERGROUND CONDUIT/RACEWAY AND ASSOCIATED WIRING/CABLING FROM THE EXISTING HOIST CONTROLLER TO THE EXISTING FRONT, MIDDLE, AND BACK PISTON AREAS.
- ⑩ REMOVE EXISTING 16' INDUSTRIAL STRIP LIGHT FIXTURE AND PROTECT FOR RELOCATION. SEPARATE THE EXISTING LIGHT FIXTURE INTO TWO (2) 8' SECTIONS. PROVIDE NEW LIGHT FIXTURE ENDPLATES, LAMP HOLDERS, AND INTEGRAL WIRING AS REQUIRED. MAINTAIN THE EXISTING LIGHTING BRANCH CIRCUITING FOR EXTENSION TO THE NEW MOUNTING LOCATIONS OF THE TWO (2) 8' SECTIONS. REFER TO SHEET E357 FOR ADDITIONAL INFORMATION.

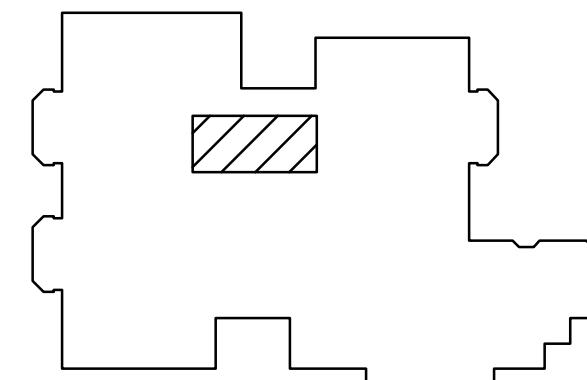


1

ENLARGED PARTIAL POWER PLAN - DEMO - OHB

1/4" = 1'-0"

HOISTS
REPLACEMENTS
(FTH, STH, OHB)

 HEI PROJECT NO. R25-5192.000
 CONTRACT NO. 25P282

 OVERHAUL BASE
 515 North Cleveland Ave,
 ST. PAUL, MN 55114

LOCATION KEY

 ALL CONTRACTORS AND SUBCONTRACTORS SHALL
VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE
BUILDING AND/OR SITE

 0 1
 BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE
INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING	ISSUE RECORD

 I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION,
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

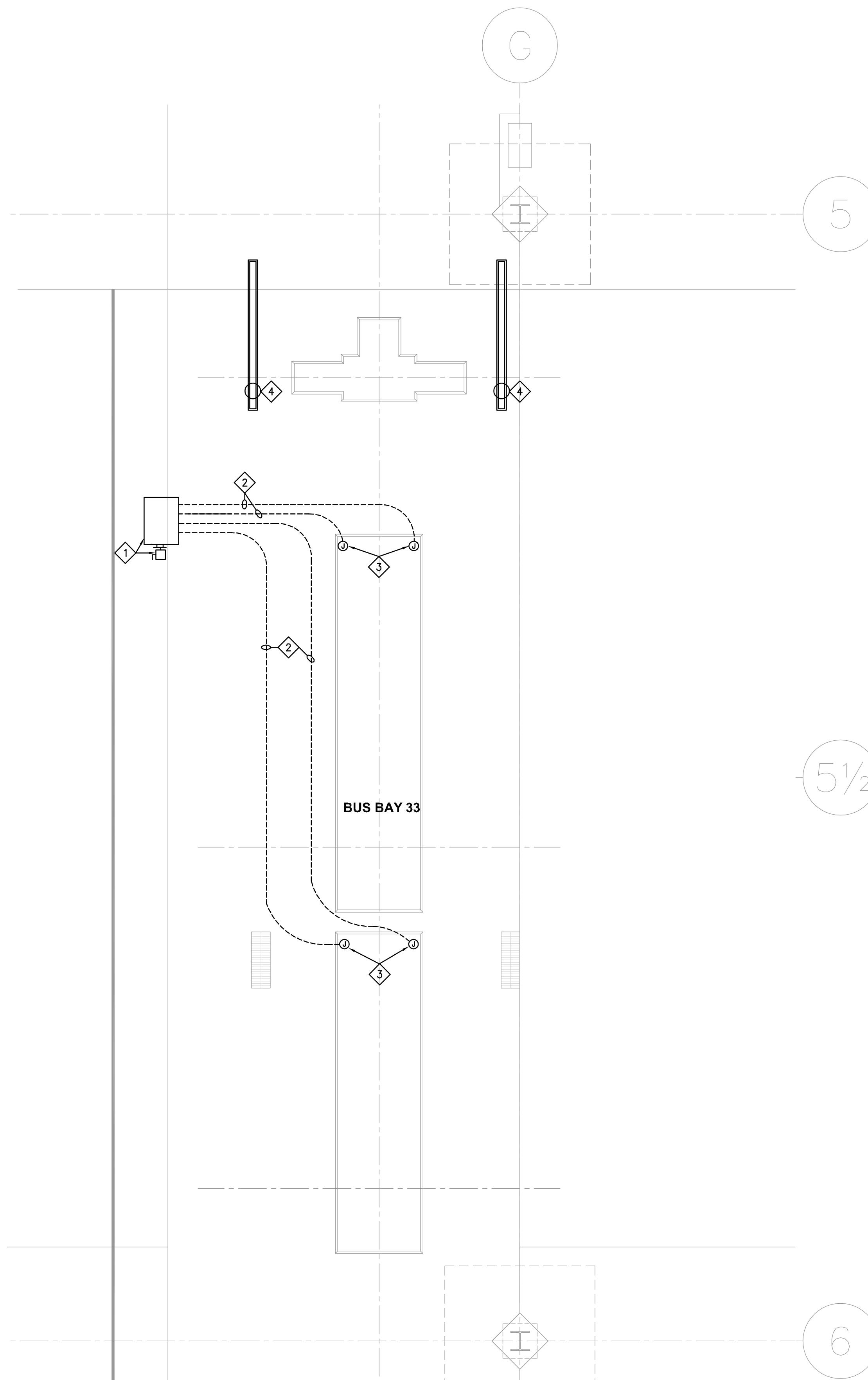


 SIGNATURE: Paul J. Fettinger
 PRINTED NAME: PAUL J. FETTINGER
 L/C. NO.: 43079 DATE: 010/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJF

 ENLARGED PARTIAL
POWER PLAN - NEW -
OHB

E357

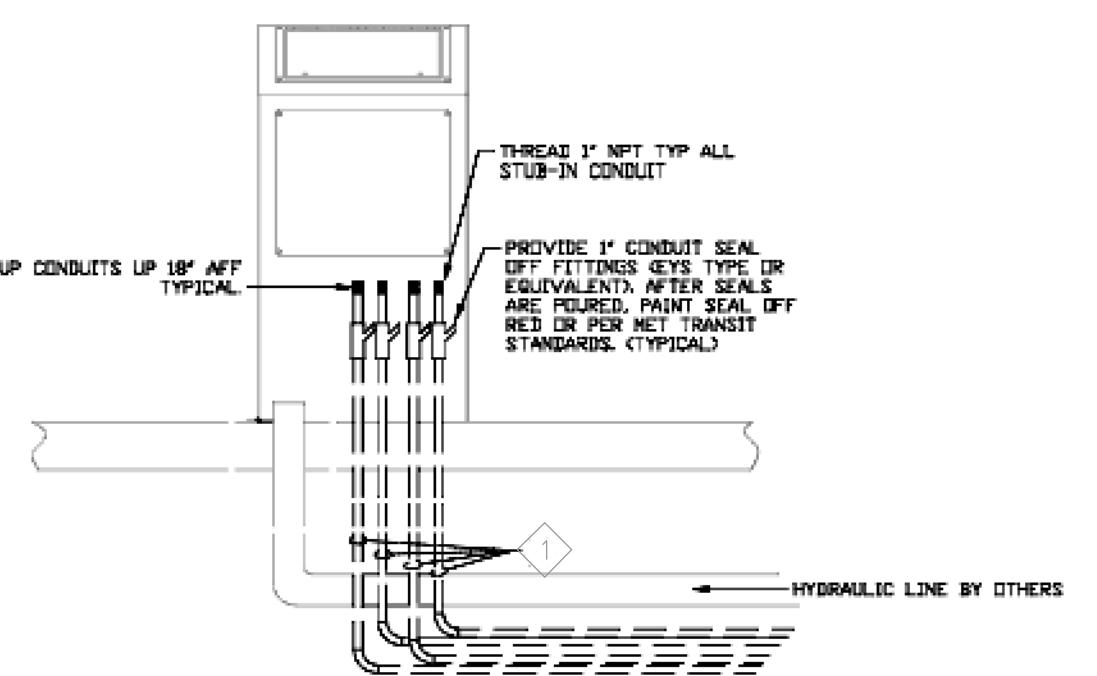


1 ENLARGED PARTIAL POWER PLAN - NEW - OHB

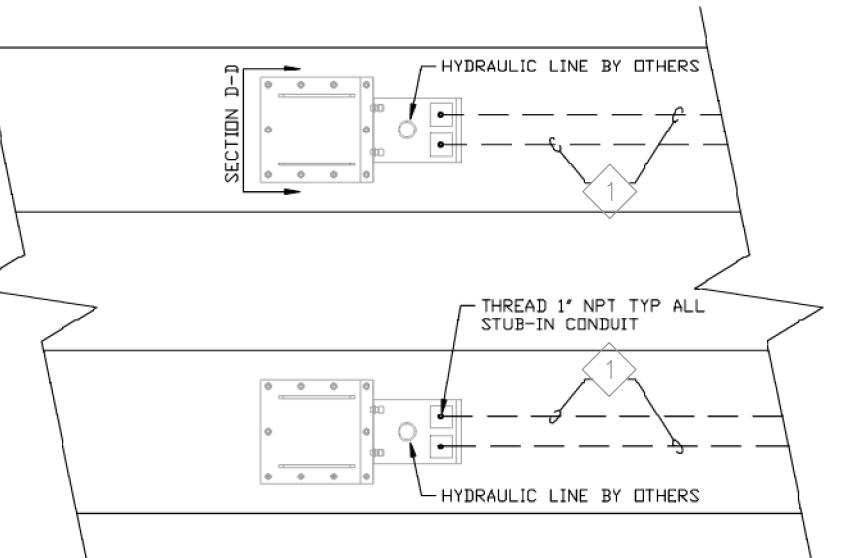
1/4" = 1'-0"

KEY NOTES - DETAILS 1, 2, AND 3

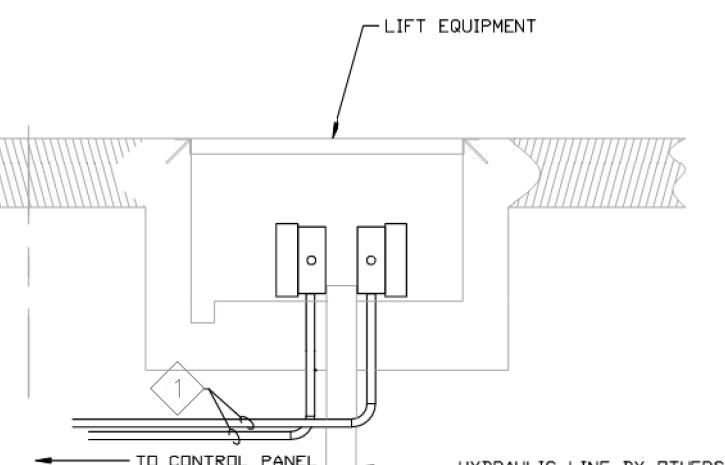
① PROVIDE TWO (2) 1" EMPTY RIGID METAL CONDUITS FROM THE HOIST CONTROL STATION TO EACH PARALLEL HOIST SERVICE LEG LOCATION. COORDINATE EXACT ROUTING OF CONDUITS AND LOCATION OF JUNCTION BOXES WITH THE PARALLEL HOIST INSTALLER PRIOR TO ROUGH-IN. WIRING/CABLING FROM THE HOIST CONTROL STATION TO EACH PARALLEL HOIST LEG LOCATION IS PROVIDED BY THE PARALLEL HOIST VENDOR/INSTALLER. REFER TO THE HOIST MANUFACTURER'S DESIGN DETAILS FOR ADDITIONAL INFORMATION.



1 **TYPICAL CONTROL STATION DETAIL**
NOT TO SCALE



2 **TYPICAL SERVICE LEG AREA PLAN VIEW**
NOT TO SCALE



3 **TYPICAL SERVICE LEG AREA CONDUIT STUB-UP "SECTION D-D"**
NOT TO SCALE

LOCATION KEY

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE

0 1

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ISSUED FOR BIDDING

0	10/10/2025	ISSUED FOR BIDDING
NO.	DATE	ISSUE RECORD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: *Paul J. Fettinger*
PRINTED NAME: PAUL J. FETTINGER
LIC. NO.: 43079 DATE: 010/10/2025

DESIGNED PJF DRAWN ANF CHECKED PJF

**ELECTRICAL DETAILS
AND SCHEDULES**

E500