

ADDENDUM NO. 1

DATE OF ISSUANCE: April 12, 2024

PROJECT: 2024 Addition and Renovations
North Harrison Elementary School
1115 W. Whiskey Run Road
Ramsey, IN 47166

OWNER: North Harrison Community Schools

ARCHITECT'S PROJECT NO.: 23-228.001

ORIGINAL BID ISSUE DATE: April 03, 2024

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes 7 pages of text and the following documents:

- Drawings: **A301, K001, K401, K402, K403, FP200, P100, P200, P201, P300, P301, M200, M300, E100, E200A, E200B, E200C, E300A, E300B, E300C, E400A, E400B, E400C, E500, E600, E601, E602, UE100**

CHANGES TO SPECIFICATIONS

ADD-1 Item No. S-1 - Bid Date Change

Refer to Specification Section: 00 11 13 – Notice to Bidders

Bid date, time, and location are changed as indicated below:

AT: North Harrison Community School Corporation
1260 Highway 64 NW
Ramsey, IN 47166

UNTIL: 1pm (EST), [project local time]

DATE: Monday, April 29, 2024

ADD-1 Item No. S-2 - Plumbing Specialties

Refer to Specification Section: 22 01 00

Include the following specification for the grease trap.

GREASE TRAP: Schier Great Basin™ grease interceptor model # GB-250 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapters, Safety Star® access restrictor built into each cover adapter, built-in flow control (for 200 GPM only) and three outlet options. Interceptor shall be certified to ASME A112.14.3 (Type D for 100 GPM, type C for 200 GPM) and CSA B481.1. Interceptor flow rate shall be 100 GPM or 200 GPM. Interceptor grease capacity shall be 1,895 lbs. @ 100 GPM or 1,196 lbs. @ 200 GPM. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity. Provide with access hatches, extension rings and cast-irons cover.

ADD-1 Item No. S-3 - Plumbing Fixtures

Refer to Specification Section: 22 02 00

Replace the selection for P-3 with the following:

P-3 STAINLESS STEEL 17" X 20" X 5" SINGLE BOWL UNDERMOUNT ADA SINK

Elkay Lustertone® Classic Stainless Steel 16" x 18-1/2" x 4-3/8" Single Bowl Undermount ADA Sink with Perfect Drain®. Sink is manufactured from 18-gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads. Sink trim shall be American Standard Maven Single Control Kitchen Faucet with polished chrome finish. 1-Handle kitchen faucet featuring metal swivel spout and two function spray head, plus pause feature. Includes 28 mm ceramic disc valve cartage metal body and ADA metal level handle.

CHANGES TO DRAWINGS**ADD-1 Item No. D-1 - Roof Plan**

Refer to Sheet(s): **A301**

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.

ADD-1 Item No. D-2 - Kitchen Demolition Plan

Refer to Sheet(s): K001

Add attached Drawing in its entirety.

ADD-1 Item No. D-3 - Kitchen Exhaust Hood

Refer to Sheet(s): K401, K402, K403

Add attached Drawings in their entirety.

ADD-1 Item No. D-4 - Fire Protection Floor Plan

Refer to Sheet(s): **FP200**

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.

ADD-1 Item No. D-5 - Plumbing Legend, general Notes, Schedules, and Details

Refer to Sheet(s): P100

- Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.
- Plumbing details have been added.
- The natural gas loads have been added for the new gas meter.

ADD-1 Item No. D-6 - Plumbing Floor Plan – Underslab Demolition

Refer to Sheet(s): P200

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.

ADD-1 Item No. D-7 - Plumbing Floor Plan – Demolition

Refer to Sheet(s): P201

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.

ADD-1 Item No. D-8 - Plumbing Floor Plan – Underslab Renovation

Refer to Sheet(s): P300

- Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.
- Added information about the grease trap size.

ADD-1 Item No. D-9 - Plumbing Floor Plan – Renovation

Refer to Sheet(s): P301

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.

ADD-1 Item No. D-10 - Mechanical Floor Plan – Demolition

Refer to Sheet(s): M200

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.

ADD-1 Item No. D-11 - Mechanical Floor Plan – Renovation

Refer to Sheet(s): M300

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.

ADD-1 Item No. D-12 - Mechanical Details

Refer to Sheet(s): M400

Reference detail 12, the 2'x2' cassettes need to be installed in the grid, refer to the architectural plan for locations.

ADD-1 Item No. D-13 - Access Control Details

Refer to Sheet(s): **E100**

For all access control devices, refer to door access riser diagrams on Drawing A802 for additional requirements.

ADD-1 Item No. D-14 - Electrified Panic Symbol

Refer to Sheet(s): **E100**

Revise Access Control "ES" symbol to indicate an electrified panic device.

ADD-1 Item No. D-15 - Wireless Access Point Demolition

Refer to Sheet(s): E200A, E200B, E200C

All wireless access points indicated for removal shall be turned over to the owner.

ADD-1 Item No. D-16 - Walk-In Compressors

Refer to Sheet(s): E200A

Revised tagged note #8 to indicated compressors shall be "removed and replaced onto new roof" rather than reinstalled.

ADD-1 Item No. D-17 - AV Cabinet Power/Data

Refer to Sheet(s): E200B

Existing AV Cabinet in cafeteria shall remain; existing power and data serving the AV cabinet shall also remain.

ADD-1 Item No. D-18 - Intercom System Scope

Refer to Sheet(s): E200C

Revise tagged note #9 as follows: Existing intercom system shall remain at location indicated as part of intercom system alternate. In the base bid the contractor shall remove existing devices and provide cabling paths per details and specifications to intercom device locations for device, cabling and equipment installation by the owner through a separate contract. As part of the alternate the contractor shall provide new devices and cabling to expand the existing system as required for renovated spaces as shown on drawings. All new device cabling shall be routed to existing rack with additional length as required for future extension to IDF Rack located in Storage 127. Alternate price shall include all required devices, cabling and headend equipment expansion required to accommodate new speakers and zones indicated on plans. Contractor shall field verify exact conditions prior to bid to determine condition of existing equipment.

ADD-1 Item No. D-19 - Intercom System Handset

Refer to Sheet(s): E200C, E400C

The existing junction box indicated for demolition between the Main Office and Stair C is the location of the existing intercom system handset. This device shall be relocated to the new reception desk where indicated on new work plans as part of intercom system alternate.

ADD-1 Item No. D-20 - Cafeteria Surface Conduit

Refer to Sheet(s): E200B, E300B

All new surface raceway required for device installation in the cafeteria shall be routed on backside of cafeteria wall and poked through from behind wherever possible to avoid surface wireway in the cafeteria. Where surface wireway is installed in any finished space, wiremold shall be used and shall be painted to match adjacent surfaces. Field verify exact conditions.

ADD-1 Item No. D-21 - Architectural Elevation Coordination

Refer to Sheet(s): E200B, E300B

Refer to interior elevations on Drawings I301 and I302 to coordinate electrical devices with other wall mounted items in Cafeteria 133.

ADD-1 Item No. D-22 - Cafeteria WAPs

Refer to Sheet(s): E300B

Delete [2] new WAP's indicated on plan west side of cafeteria.

ADD-1 Item No. D-23 - Cooler/Freezer Electrical Connections

Refer to Sheet(s): E400A, E600

Updated electrical loads for cooler and freezer blower coils and compressors.

ADD-1 Item No. D-24 - Lighting RCP Coordination

Refer to Sheet(s): E300A, E300C

- "Office 141" to have [1] "K2" fixture in space.
- Changed "K2" fixture in "Kitchen 137" on plan west side over prep station to a "K1" fixture to avoid full-height wall.
- "Dishwash 136" to have [4] "K2" fixtures in space.
- "Serving 134" to have [8] "K2" fixtures in space.
- "Utility 135" to have [1] "K2" fixture instead of "H" fixture.
- Plan northeast "A2" fixture in "Office 120" to be shifted 2' to the right.
- "Counselor 105" to have [1] "A2" fixture in space.
- Changed [2] "B1" fixtures between "Assistant 104" and "Hall 110" to "B2" fixtures.

ADD-1 Item No. D-25 - Lighting Control Detail

Refer to Sheet(s): E601

Increased text size of lighting control legend and associated notes. Note #3 in "Lighting Control Legend Notes" to be "OR EQUAL BY WATTSTOPPER OR COOPER CONTROLS."

ADD-1 Item No. D-26 - Kitchen Hood Control Detail

Refer to Sheet(s): E600

Increased text size of "Kitchen Hood Equipment Control Schematic" detail.

ADD-1 Item No. D-27 - Emergency Wallpack Additions and Adjustments

Refer to Sheet(s): E300C

- Add emergency wallpack, "EW", to plan east wall in "Storage 118".
- Add emergency wallpack, "EW", to plan west wall in "Storage 119".
- Add emergency wallpack, "EW", to plan east wall in "Counselor 105".
- Add emergency wallpack, "EW", to plan north wall in "Counselor 106".
- Move emergency wallpack, "EW", from east wall to west wall in "Office 120".
- Move emergency wallpack, "EW", from east wall to west wall in "Office 123".
- Move emergency wallpack, "EW", from west wall to east wall in "Office 117".
- Move emergency wallpack, "EW", from east wall to north wall in "Reception 103".

ADD-1 Item No. D-28 - Kitchen Speaker Adjustment

Refer to Sheet(s): E400A

Move speaker in "Kitchen 137" at plan west 2' to the left to prevent conflict with supply diffuser.

ADD-1 Item No. D-29 - Kitchen Doorbell System

Refer to Sheet(s): E400A

Added [2] new vibrating doorbells in "Kitchen 137". One along plan south wall over 3-compartment sink, another along plan southwest wall by the milk coolers. Updated doorbell symbol by kitchen door to the dock to be a doorbell push button.

ADD-1 Item No. D-30 - Vestibule 101 Door Security

Refer to Sheet(s): E400C

Removed "DS" and "ES" from plan east, rightmost door for both Vestibule 101 exterior doors and Vestibule 101 interior doors. These [2] doors are to be manual only.

ADD-1 Item No. D-31 - Office Data Update

Refer to Sheet(s): E400C

Changed 2-data drops in "Principal 107" and "Assistant 104" to be 4-data drops.

ADD-1 Item No. D-32 - Power/Systems Readjustment

Refer to Sheet(s): E400C

- Shifted (2) duplexes in "Assistant 104" and "Counselor 105" north to be along wall.
- Moved quadruplex and 4-data device in "Counselor 105" from south wall to west wall behind desk.
- Moved (1) duplex off east wall to south wall in "Reception 103". Added (1) duplex to plan east wall behind plan north desk.
- Moved duplex in "Clinic 121" by plan south bed from east wall to opposite wall of plan south bed. Removed duplex by plan north bed.
- Existing duplex in "Storage 119" to be demolished and replaced with a new duplex receptacle. New circuit to go back to existing panel as indicated.
- Added above counter duplex receptacle to plan north wall in "Work Room 109". Circuit back to existing panel as indicated.

ADD-1 Item No. D-33 - Luminaire Schedule – Flat Panel Spec Updates

Refer to Sheet(s): E601

Update description and model of fixture type "A2" as follows:

- "Recessed lay-in 2'x4' dimmable LED flat panel with aluminum housing, polycarbonate lens".
- Model: "TGS #88-24-50-35". Equal fixture of Lithonia "CPANL" added.
- Delivered lumens updated to be 6250lm.

Update model of fixture type "B1" as follows:

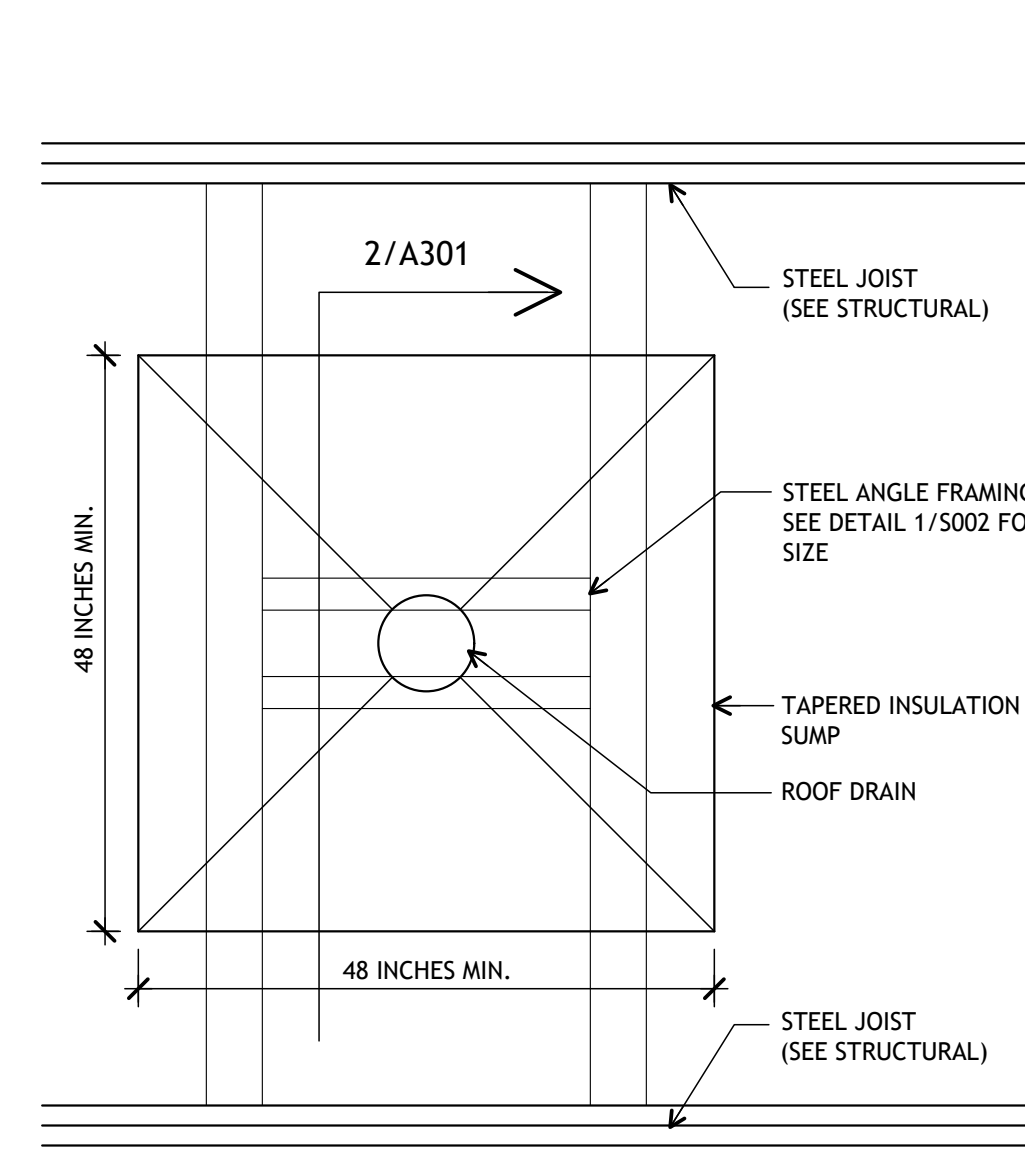
- Model: "TGS #88-22-40-35". Equal fixture of Lithonia "CPANL" added.

ADD-1 Item No. D-34 - Electrical Engineer's Stamp and Signature

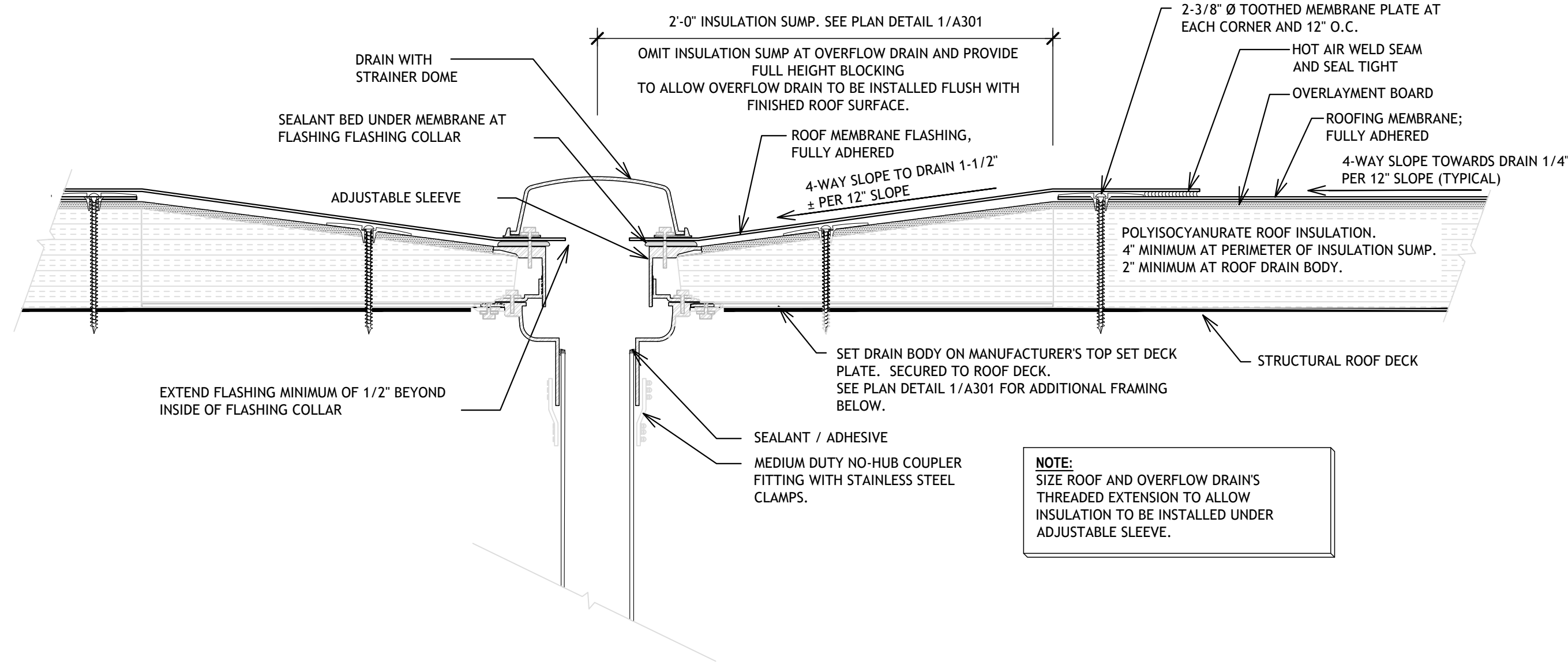
Refer to Sheet(s): E400B, E500, E602, UE100

Electrical engineer's stamp and signature have been updated on all electrical drawings. The drawings listed above were reissued only because of the stamp change; no other revisions were made to these drawings.

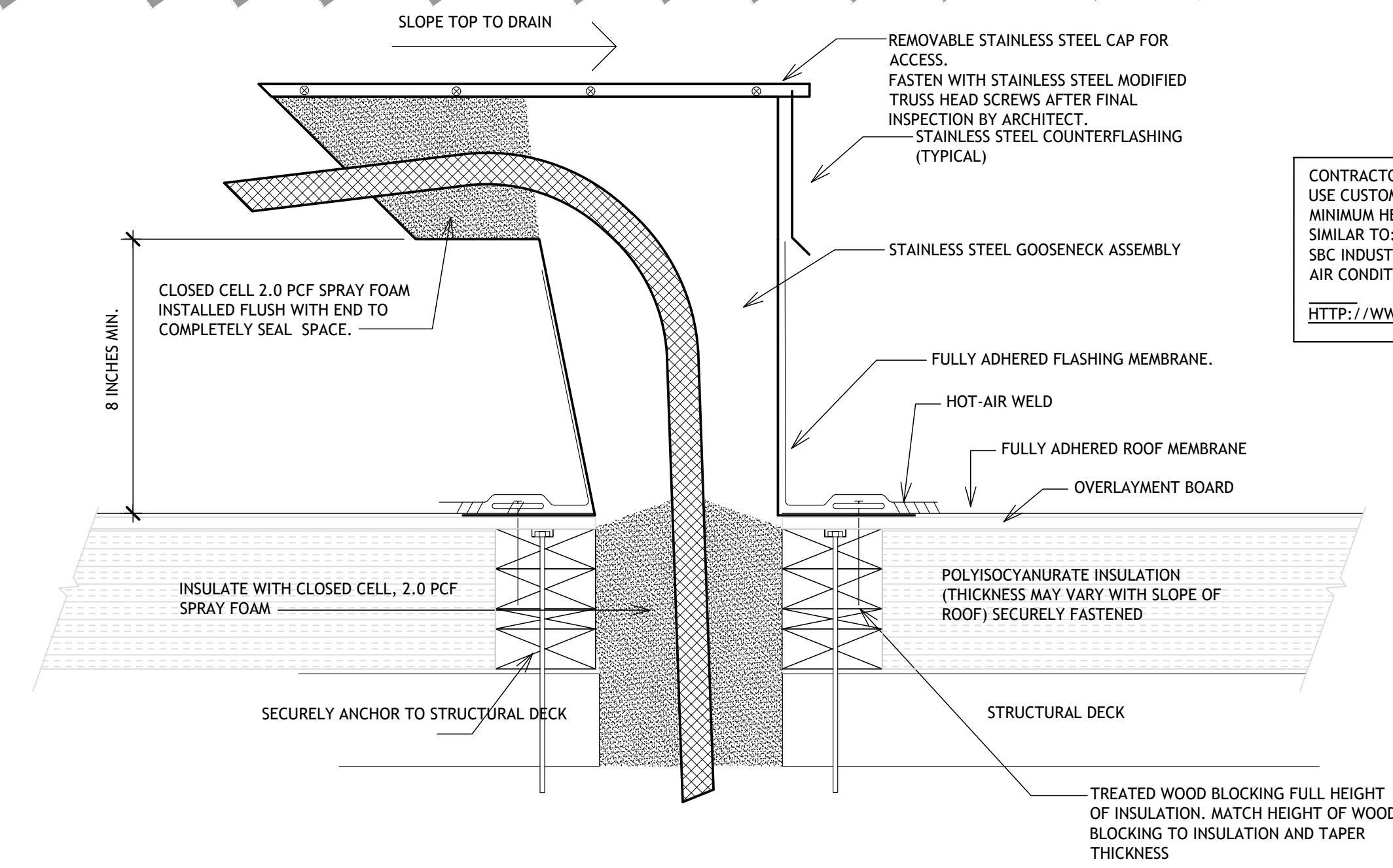
END OF ADDENDUM.



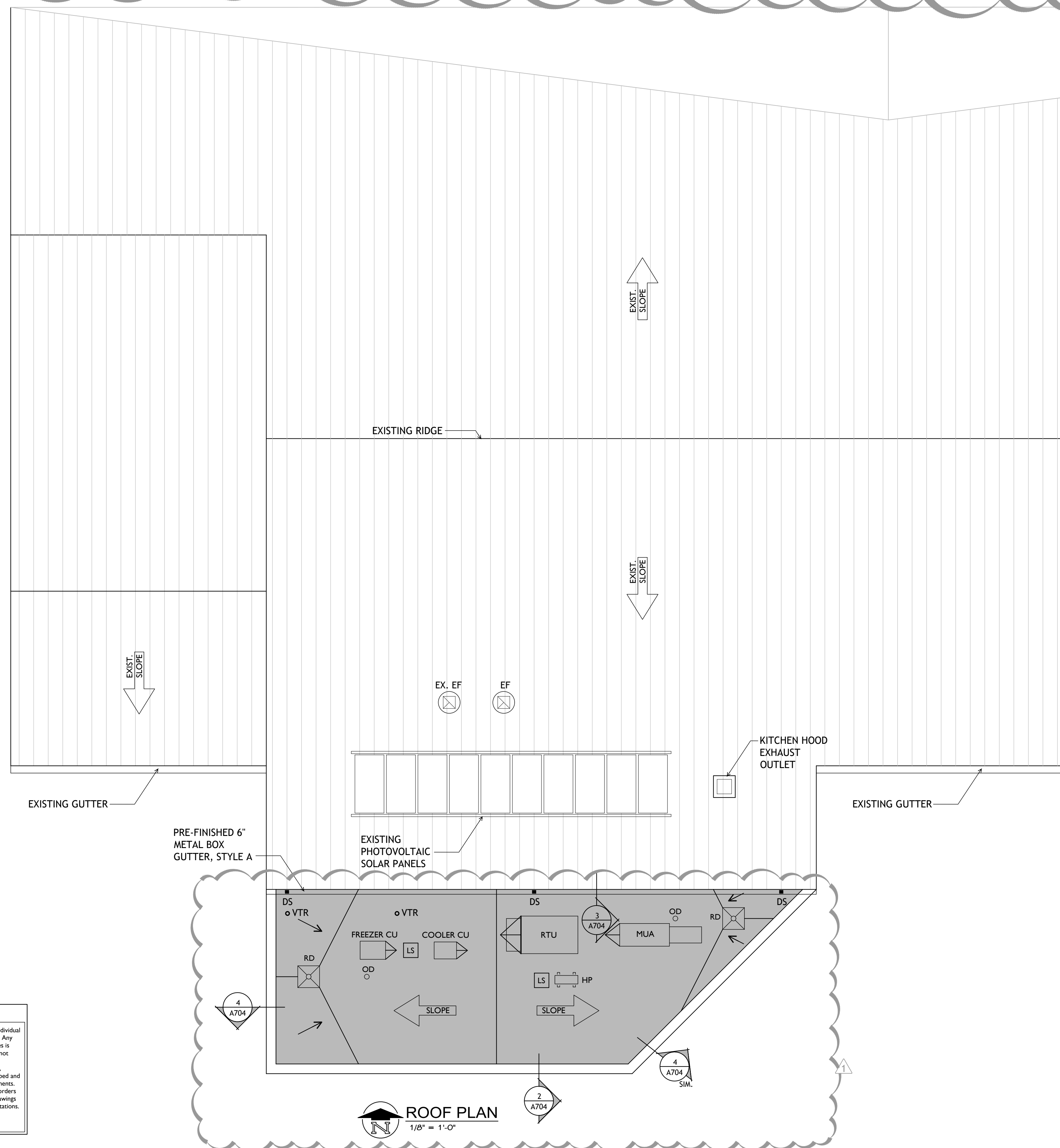
1 Typical Roof Drain Plan
A-301 full size plot scale: N.T.S.



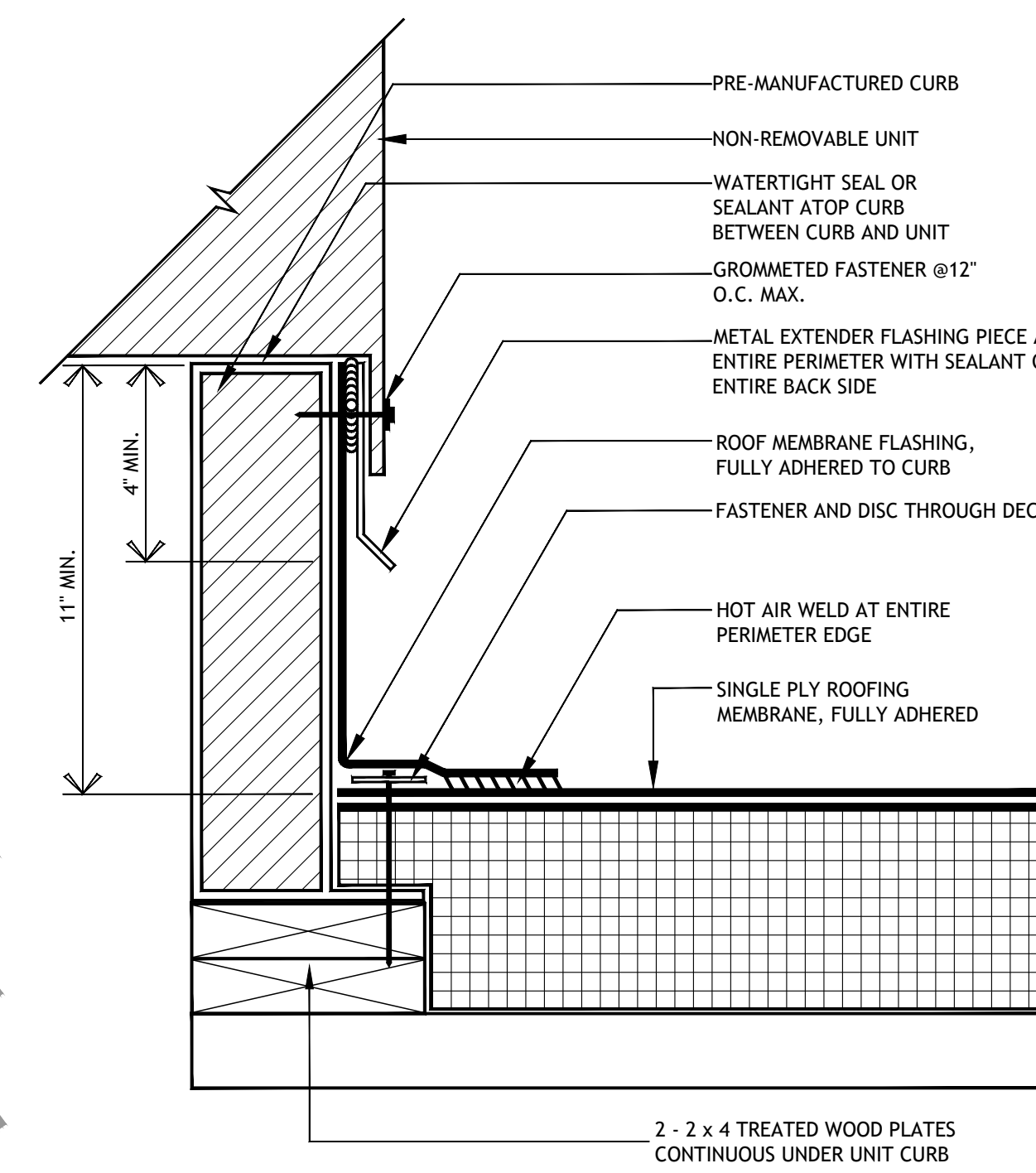
2 Typical Roof Drain Section
A-301 full size plot scale: N.T.S.



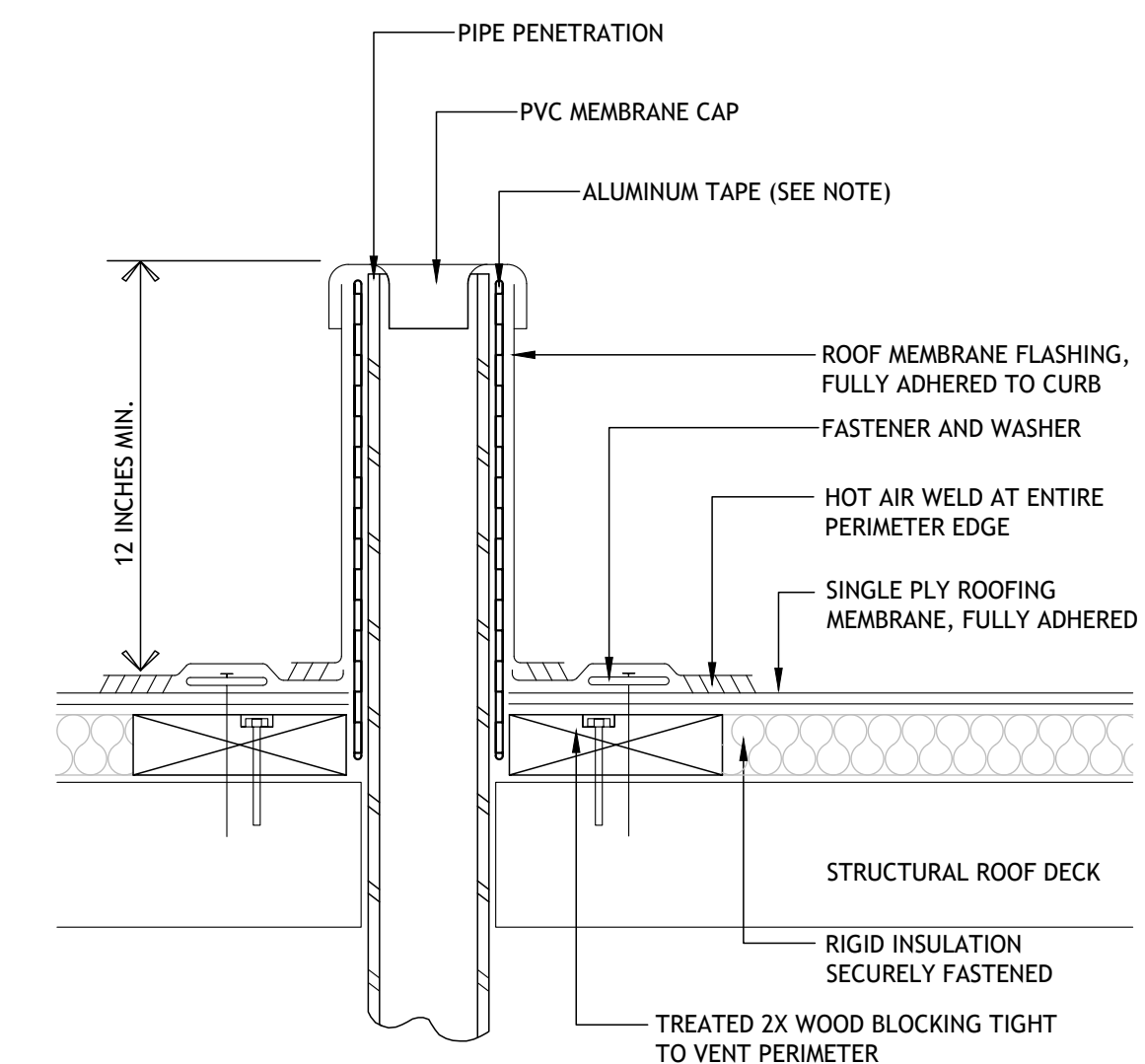
3 Typical Refrigerant Line Penetration Flashing
A-301 full size plot scale: N.T.S.



ROOF PLAN
1/8" = 1'-0"



4 Typical Equipment Curb
A-301 full size plot scale: N.T.S.



NOTE:
ALUMINUM TAPE IS REQUIRED IF EXISTING PENETRATION IS CONTAMINATED.

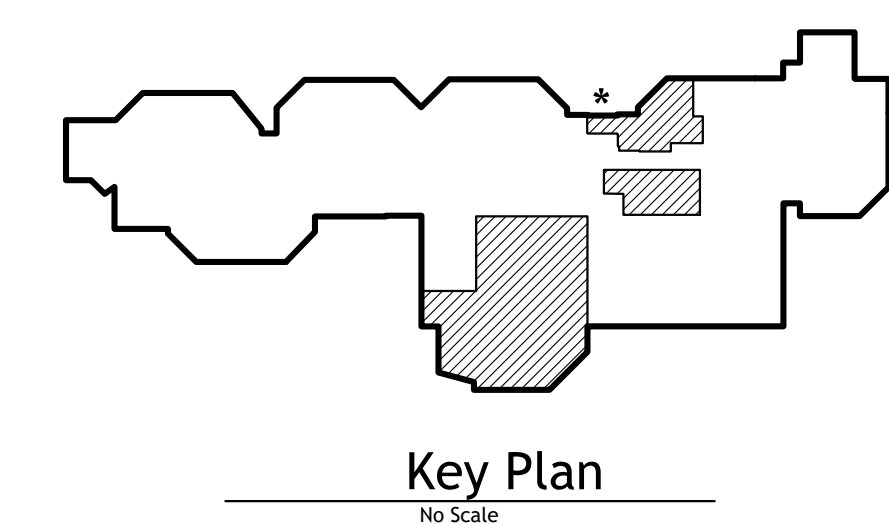
5 Typical Vent Flashing
A-301 full size plot scale: N.T.S.

Roof Plan Notes

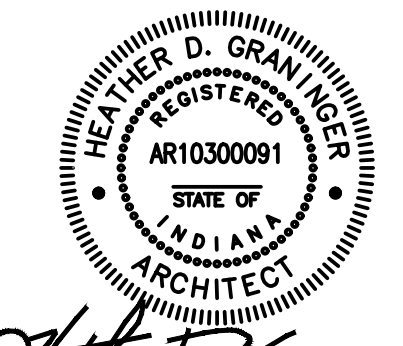
- REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ITEMS SHOWN ON THE ROOF PLAN.
- REFER TO BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION AND COORDINATION.
- PROVIDE TAPERED INSULATION CRICKET AT HIGH SIDE OF ALL ROOF CURBS THROUGHOUT.
- ROOF PLANS ARE DIAGRAMMATIC IN NATURE AND ILLUSTRATE THE DESIGN INTENT OF THE WORK. NOT ALL ROOFING CONDITIONS ARE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS.
- SERVICE SIDES OF ALL ROOFTOP EQUIPMENT TO BE LOCATED 1'-0" MINIMUM FROM ALL ROOF EDGES.

Roof Plan Legend

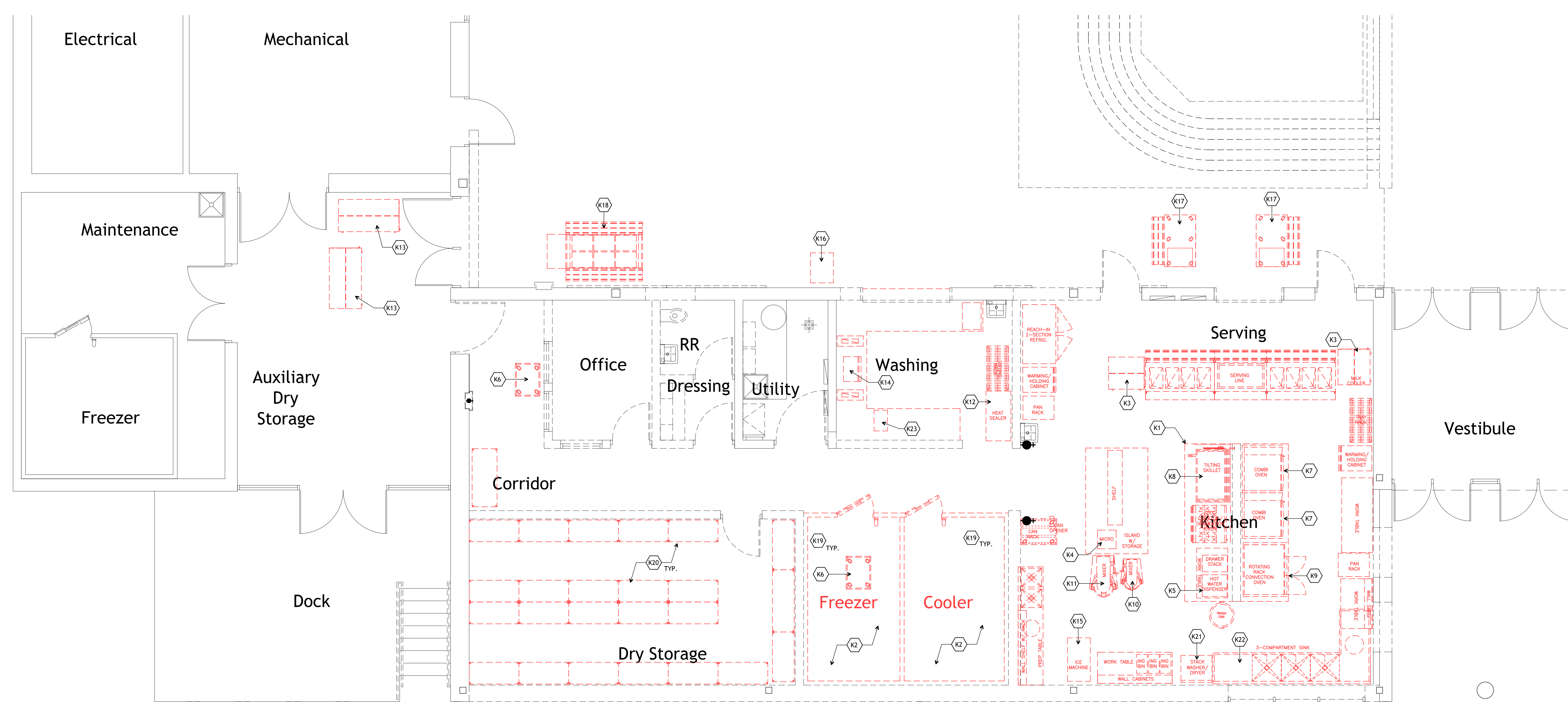
	STRUCTURAL ROOF SLOPE
	CONDENSING UNIT FOR WALK-INS (REFER TO DRAWING K303)
	PRE-FINISHED 3"x4" PLAIN RECTANGULAR METAL DOWNSPOUT
	HEAT PUMP (REFER TO MECHANICAL)
	EXISTING
	MAKE-UP AIR UNIT FOR KITCHEN EXHAUST HOOD (REFER TO K400 SERIES DRAWINGS)
	ROOFTOP UNIT (SEE MECHANICAL)
	EXHAUST FAN ON ROOF CURB
	EXISTING STANDING SEAM METAL ROOF SYSTEM TO REMAIN
	SINGLE-PLY ROOF MEMBRANE
	LINE SHACK FOR REFRIGERANT PIPING (REFER TO DETAIL 3/A301)
	ROOF DRAIN (REFER TO DETAILS 142/A301 AND PLUMBING DRAWINGS)
	OVERFLOW ROOF DRAIN (REFER TO DETAILS 142/A301 AND PLUMBING DRAWINGS)
	SANITARY VENT THRU ROOF (REFER TO DETAIL 5/A301)



Notice
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ISSUED FOR DATE
Addendum No. 1 04-12-2024



General Demolition Notes

- SEE SPECIFICATIONS SECTION 02 41 19 - SELECTIVE DEMOLITION FOR FURTHER REQUIREMENTS OF DEMOLITION WITHIN SCOPE OF WORK.
- OTHER SHEETS WITHIN THIS DRAWING SET REFER TO ITEMS PERTAINING TO SPECIFIC AREAS OF WORK WHICH NEED TO BE REMOVED AND ARE TO BE INCLUDED WITHIN THE ENTIRE SCOPE OF DEMOLITION ON THE PROJECT. CONTRACTOR IS NOT RELIEVED OF RESPONSIBILITY FOR ALL WORK INTENDED FOR FAILURE TO REVIEW ENTIRE DOCUMENT SET FOR WORK REQUIRED.
- COORDINATE ALL DEMOLITION WITH PHASING, ARCHITECT, AND OWNER'S REPRESENTATIVE.
- DEMOLITION DRAWINGS ARE INTENDED TO HELP COMMUNICATE THE INTENT OF THE DEMOLITION WORK INVOLVED AND CANNOT SHOW OR INDICATE EACH AND EVERY ITEM TO BE A PART OF THE DEMOLITION. SOME SPECIFIC ITEMS ARE SHOWN HEREIN, BUT OTHER WORK SHALL BE NEEDED TO ACCOMPLISH THE ENTIRE SCOPE OF WORK REQUIRED FOR THE PROJECT.
- ALL EXISTING FOOD SERVICE EQUIPMENT THROUGHOUT THE KITCHEN IS TO BE REMOVED FROM THE RENOVATION AREA SO AS TO ALLOW FOR THE SCOPE OF RENOVATION WORK. STOCKPILE ALL ITEMS IN AN ADJACENT SPACE THAT ARE TO BE REUSED AND/OR REINSTALLED. PROTECT ITEMS DURING RENOVATION. CLEAN ALL ITEMS AND REINSTALL IN NEW LOCATIONS.
- ALL EXISTING FOOD SERVICE EQUIPMENT THROUGHOUT THE KITCHEN THAT IS NOT INDICATED TO BE REINSTALLED IS TO BE RETURNED TO THE OWNER FOR THEIR USE IN ANOTHER LOCATION WITHIN THE SCHOOL SYSTEM. EXCLUDES ALL FABRICATED ITEMS (SINKS, DISHTABLES, ETC.), EXHAUST HOOD ITEMS, BOOSTER HEATERS, DISCONNECTS, CONNECTORS, ACCESSORIES, ETC.
- CONTRACTOR IS RESPONSIBLE FOR DISCONNECTING AND CAPPING ALL ASSOCIATED UTILITIES AND SERVICES FOR ALL EXISTING KITCHEN EQUIPMENT.

Kitchen Demolition Keynotes

- K17 COMPLETELY REMOVE EXHAUST HOOD SYSTEM IN ITS ENTIRETY.
- K2 COMPLETELY REMOVE WALK-IN COOLER AND FREEZER IN THEIR ENTIRETY.
- K3 EXISTING MILK COOLER (ITEM #1A ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K4 EXISTING MICROWAVE (ITEM #5 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K5 EXISTING HOT WATER DISPENSER (ITEM #7 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K6 EXISTING UTILITY CART (ITEM #14 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K7 EXISTING COMBI OVEN (ITEM #16 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K8 EXISTING TILTING SKILLET (ITEM #17 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K9 EXISTING ROTATING RACK OVEN (ITEM #19 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K10 EXISTING MIXER (ITEM #26 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K11 EXISTING MIXER (ITEM #27 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K12 EXISTING HEAT SEALER (ITEM #29 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K13 EXISTING MILK COOLER (ITEM #34 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K14 EXISTING DISHWASHER (ITEM #36 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K15 EXISTING ICE MACHINE (ITEM #38 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K16 EXISTING ICE MACHINE (ITEM #39 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K18 EXISTING CASHIER STAND (ITEM #40 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K19 EXISTING SALAD BAR UNIT (ITEM #41 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K20 EXISTING WALK-IN SHELVING UNITS (ITEM #50 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K21 EXISTING DRY STORAGE SHELVING UNIT (ITEM #51 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN.
- K22 EXISTING STACKING WASHER/ DRYER UNIT TO BE SALVAGED AND RE-INSTALLED IN NEW KITCHEN.
- K23 EXISTING 3-COMPARTMENT SINK (ITEM #15 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND RE-INSTALLED IN NEW KITCHEN.
- K24 EXISTING BOOSTER HEATER (ITEM #368 ON KITCHEN EQUIPMENT SCHEDULE) TO BE SALVAGED AND RE-INSTALLED IN NEW KITCHEN.

FOOD SERVICE DEMOLITION PLAN
1/4" = 1'-0"

NOTE: THIS DRAWING IS INTENDED TO BE PLOTTED IN COLOR. IF THIS NOTE DOES NOT APPEAR IN COLOR, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

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PROJECT TITLE
NORTH HARRISON
ELEMENTARY SCHOOL
2024 ADDITION AND
RENOVATIONS

OWNER
NORTH HARRISON
COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW
RAMSEY, INDIANA 47166

SHEET TITLE
FOOD SERVICE DEMOLITION PLAN

DATE
APRIL 12, 2024
SHEET NUMBER
K 001
23-228.001

HOOD INFORMATION - JOB#6676732

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM					MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM				VEL	SP
1	46 Skillet	5424 EX-2-ACPS-P	ECON-AIR	12' 8"	450 DEG	I	MEDIUM	185	2343	4"	16"	2343	1678	-0.759"	1874	702	430 SS WHERE EXPOSED	ALONE	FRONT
2	46 Oven Only	5424 EX-2-ACPS-P	ECON-AIR	12' 8"	450 DEG	I	MEDIUM	185	2343	4"	16"	2343	1678	-0.759"	1874	702	430 SS WHERE EXPOSED	ALONE	BACK

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)		EFFICIENCY @ 7 MICRONS	QTY	LIGHT(S)		UTILITY CABINET(S)		ELECTRICAL	SWITCHES	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT			
			QTY	HEIGHT			LENGTH	TYPE	WIRE GUARD	LOCATION					SIZE	FIRE SYSTEM	SIZE
1	46 Skillet	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	6	RECESSED ROUND	NO				YES	835 LBS			
2	46 Oven Only	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	6	RECESSED ROUND	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	1212 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	46 Skillet	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. BACK STANDOFF (FLAT) 6"± WIDE 152" LONG. BALANCE DAMPERS. SENSOR-CV.
2	46 Oven Only	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. BALANCE DAMPERS. SENSOR-CV.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)		
							WIDTH	LENG	SP
1	46 Skillet	Front	152"	24"	6"	MUA	8"	36"	624 0.174"
						MUA	8"	36"	624 0.174"
						MUA	8"	36"	624 0.174"
						AC	8"	16"	234 0.062"
						AC	8"	16"	234 0.062"
2	46 Oven Only	Front	164"	24"	6"	MUA	8"	36"	624 0.150"
						MUA	8"	36"	624 0.150"
						AC	8"	16"	234 0.062"
						AC	8"	16"	234 0.062"
						AC	8"	16"	234 0.062"

FIRE SYSTEM INFORMATION

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0/4.0	60	44	WALL UTILITY CABINET LEFT	N/A

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"
	RIGHT	18"
2	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"
	RIGHT	0"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED
FILE# 102900319PRT-001

ND-2 Series with AC-PSP Accessory Specification

The model ND-2 with AC-PSP Accessory is a compensating canopy hood rated for all types of cooking equipment. The hood shall have the size, shape and performance specified on drawings.

Construction shall be type 430 stainless steel, with a #3 or #4 polish where exposed. The manufacturer, ETL and NSF shall determine the individual component construction. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood enclosure to the lower outermost perimeter that directs and captures grease-laden vapor and exhaust gases shall have a liquid-tight continuous external weld in accordance with NFPA 96. The hood shall be wall type with a minimum of four connections for hanger rods. Connectors shall have 9/16" holes pre-punched in 1 1/2" x 1 1/2" angle iron at the factory to allow for hanger rod connection by others.

The hood shall be furnished with U.L. classified filters, supplied in size and quantity as required by ventilator. The filters shall extend the full length of the hood and the filler panels shall not be more than 6" in width.

The hood manufacturer shall supply complete computer generated submittal drawings including hood sections view(s) and hood plan view(s). These drawings must be available to the engineer, architect and owner for their use in construction, operation and maintenance.

Exhaust duct collar to be 4" high with 1" flange. Duct sizes, CFM and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

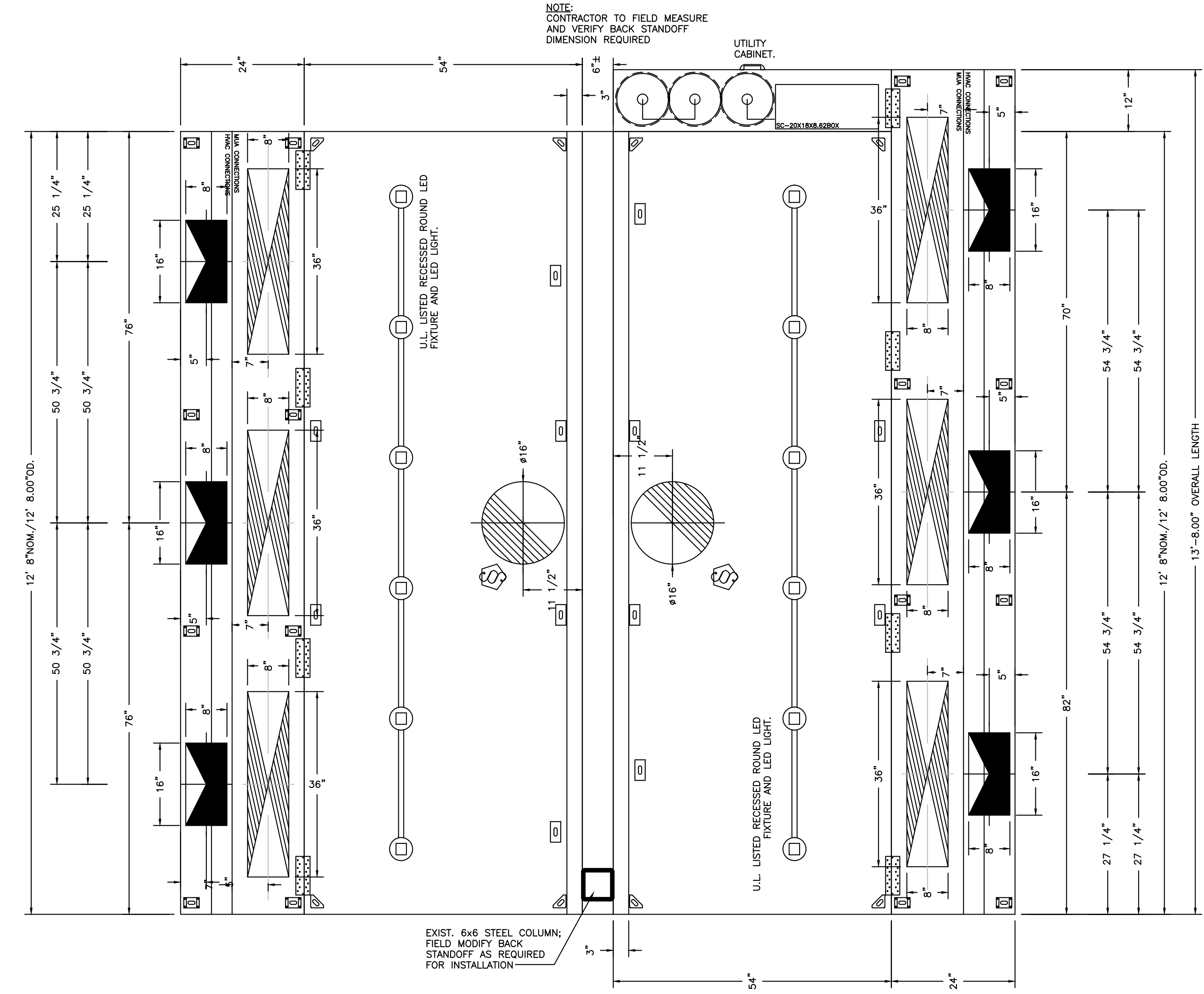
U.L. incandescent light fixtures and globes shall be installed and pre-wired to a junction box. The light fixtures shall be installed with a maximum of 4'0" spacing on center and allow up to a 100 watt standard light bulb.

The hood shall have:
- A double wall insulated front to eliminate condensation and increase rigidity. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
- An integral front baffle to direct grease laden vapors toward the exhaust filter bank.
- A built-in wiring chase provided for outlets and electrical controls on the hood face and shall not penetrate the capture area or require an external chase way.
- Removable grease cup for easy cleaning.

The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper", NSF Listed and built in accordance with NFPA 96.

The hood shall be listed for 450°F cooking surfaces at 150 CFM/ft, 600°F cooking surfaces at 200 CFM/ft, and 700°F cooking surfaces at 250 CFM/ft. The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper".

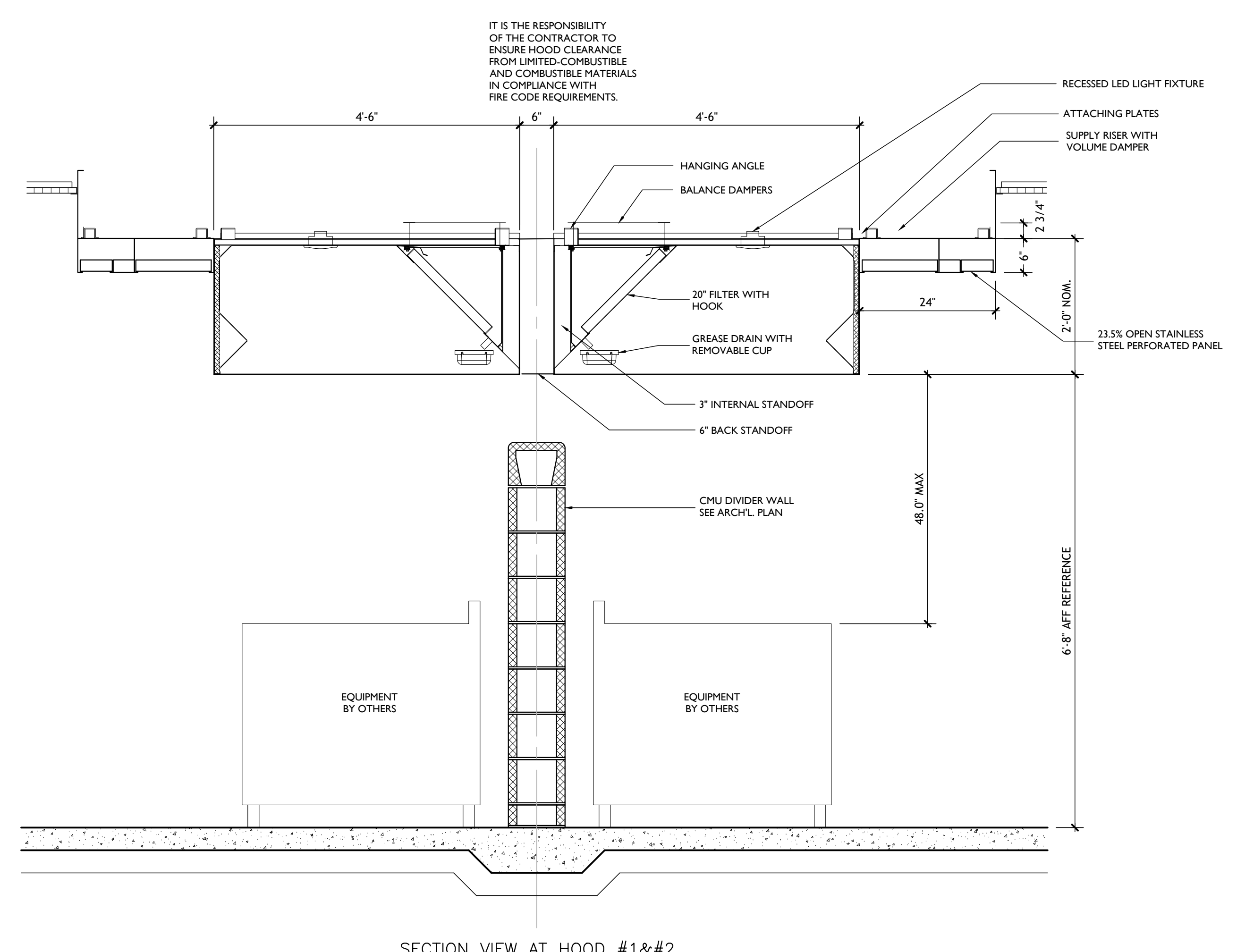
Factory will install the AC-PSP accessory which will delivers up to 80% make-up air while providing a termination point for AC air in a separate insulated plenum. Make-up air plenum shall be located closest to hood. Both the make-up air plenum and AC plenum shall contain two layers of perforated stainless steel diffuser plates to provide even air distribution.



PLAN VIEW - HOOD #1 (46 Skillet)
12' 8.00\"/>

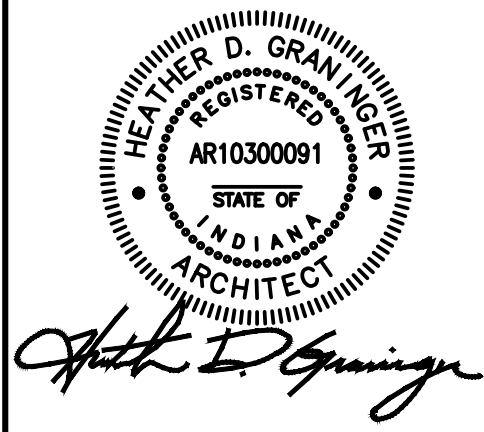
PLAN VIEW - HOOD #2 (46 Oven Only)
12' 8.00\"/>

PLAN VIEW AT HOOD #1



SECTION VIEW AT HOOD #1

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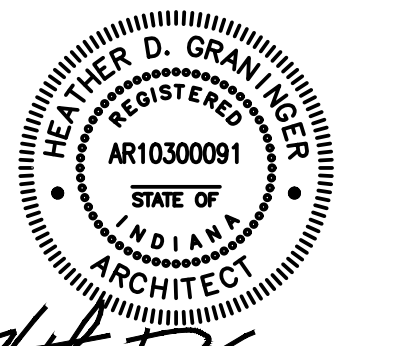


ISSUED FOR DATE
Addendum No. 1 04-12-2024

PROJECT TITLE
NORTH HARRISON
ELEMENTARY SCHOOL
2024 ADDITION AND
RENOVATIONS

OWNER
NORTH HARRISON
COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW
RAMSEY, INDIANA 47166

SHEET TITLE
FOOD SERVICE- HOOD DETAILS
DATE
APRIL 12, 2024
SHEET NUMBER
K 401
23-228.001



ISSUED FOR _____ DATE _____
Addendum No. 1 04-12-2024

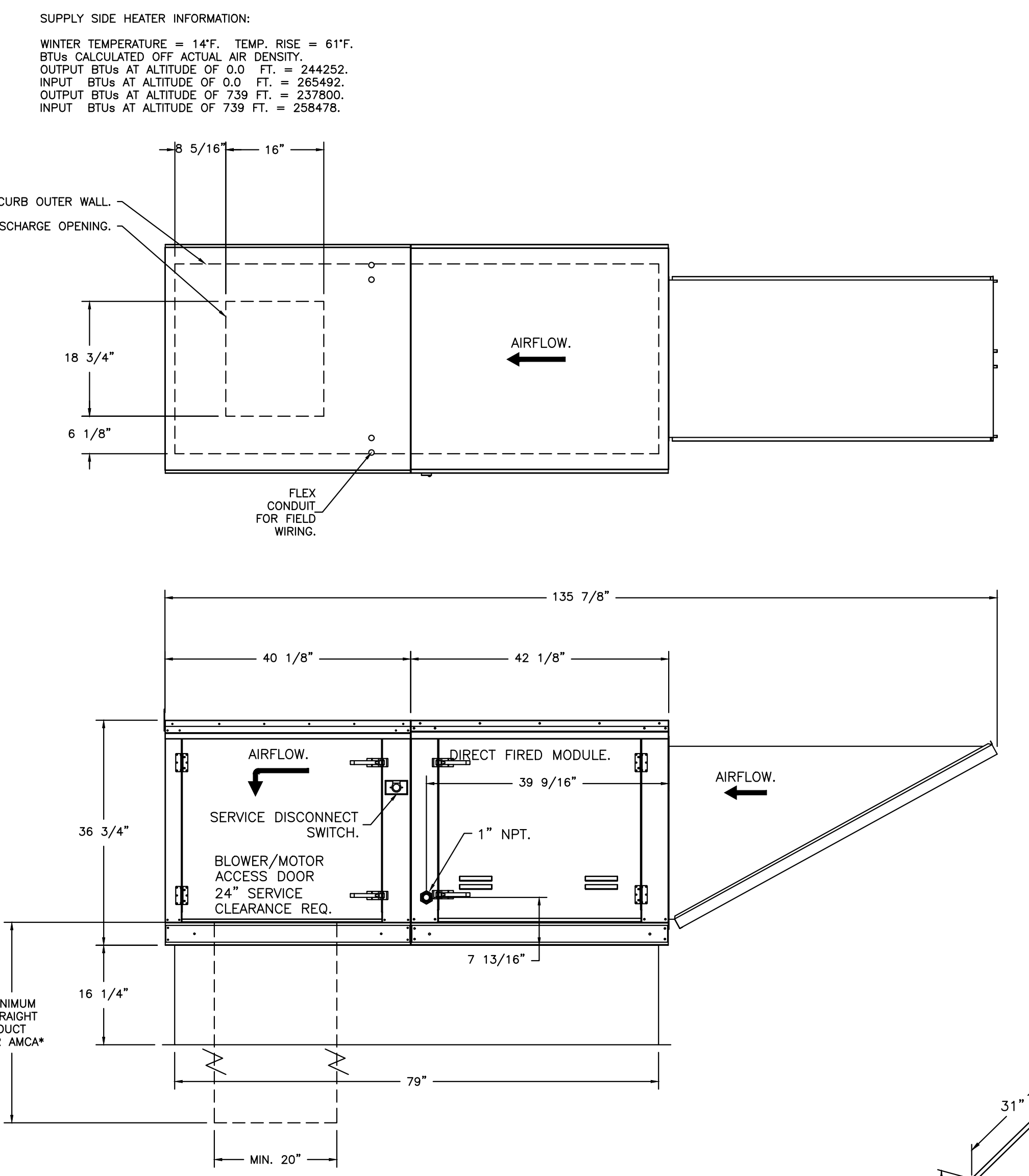
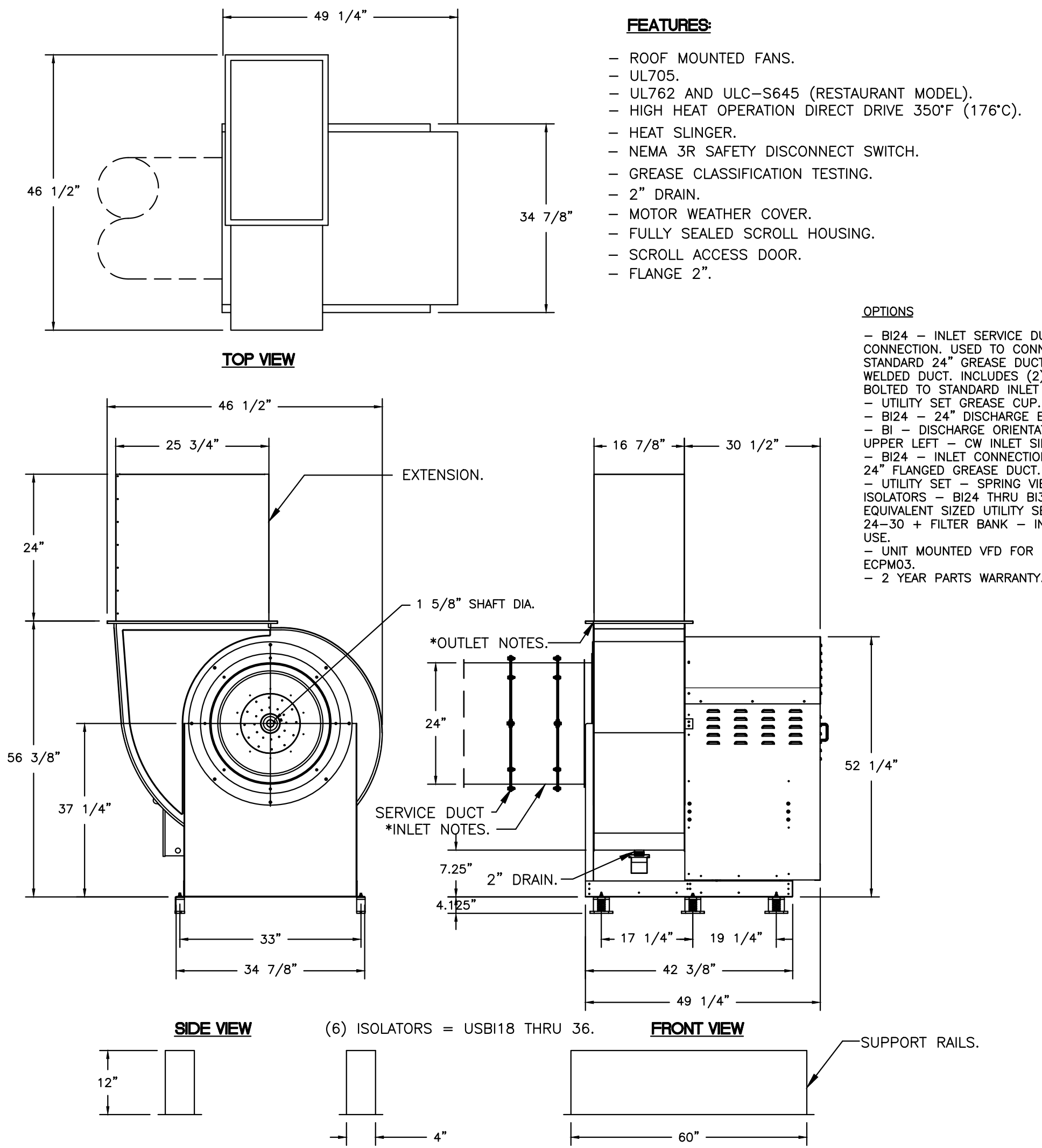
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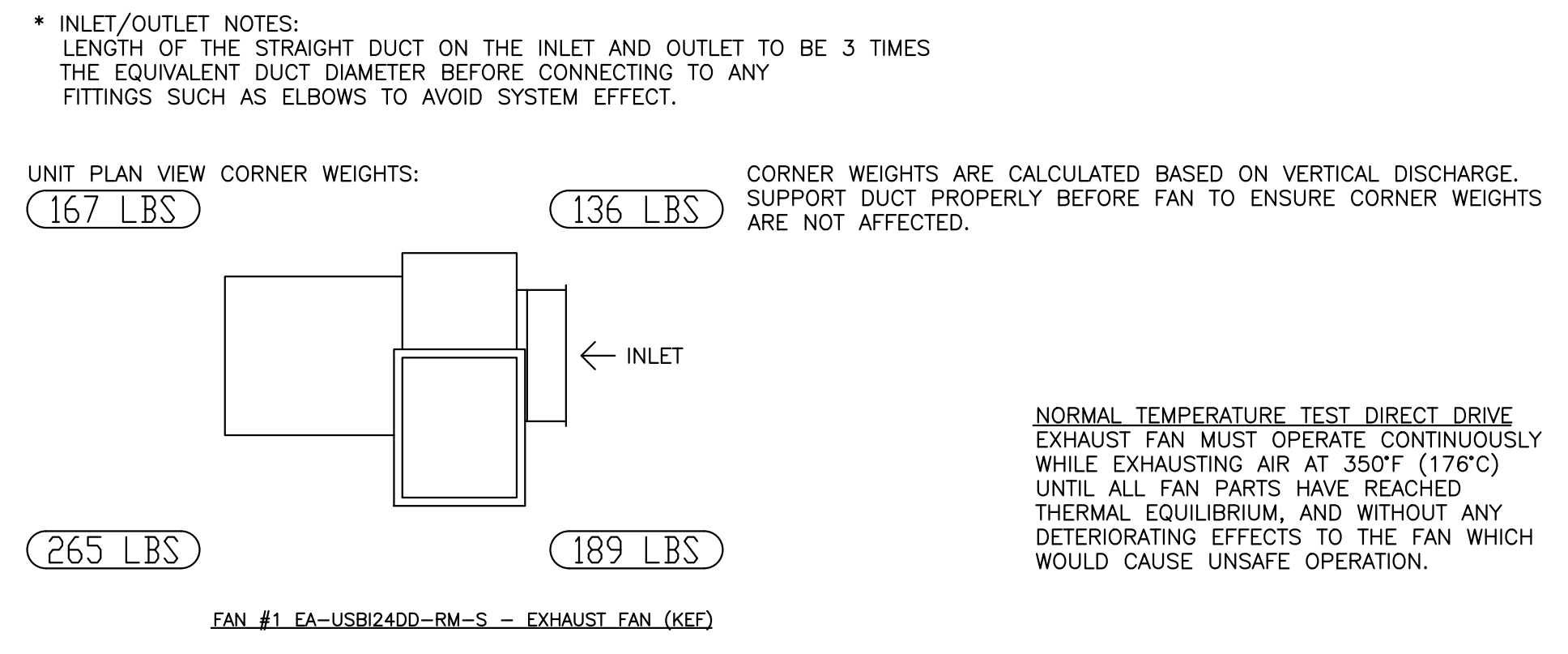
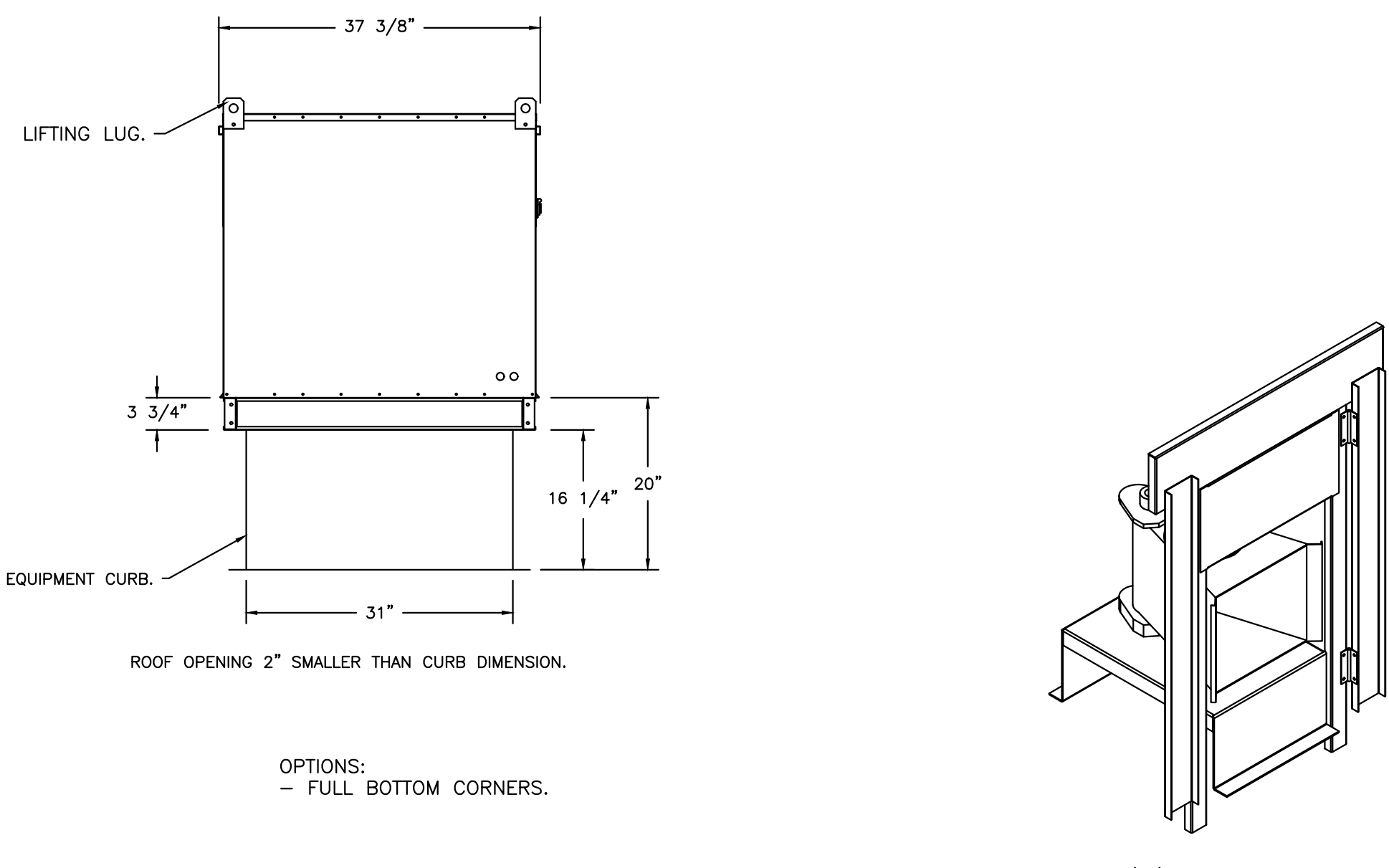
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FOOD SERVICE- HOOD DETAILS

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SHEET NUMBER
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23-228.001



- FAN #2 EA2-D.250-20D - HEATER (MUA)**
- DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN.
 - INTAKE HOOD WITH E2 FILTERS.
 - DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
 - GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
 - GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
 - BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE).
 - SHIP LOOSE GAS STRAINER TO BE INSTALLED UPSTREAM OF UNIT CONNECTION, 1" CONNECTION.
 - CASLINK BUILDING MONITORING SYSTEM COMMUNICATIONS MODULE. REQUIRES INTERNET & FIELD WIRED ETHERNET CONNECTION OR 3G CELLULAR SERVICE. INCLUDES REV 3 COMM MODULE, RJ45 TO MODBUS CONVERTER, 3 FT CAT5 CABLE, AND 1 FT OF SHIELDED TWISTED PAIR.
 - MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE. LF1205 ACTUATOR INCLUDED.
 - DOWN DISCHARGE CONSTRUCTION FOR SIZE 2 DIRECT DRIVE AHUS.
 - PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS.
 - UNIT MOUNTED VFD FOR USE WITH ECPM03.
 - HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
 - 2 YEAR PARTS WARRANTY.
- *NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRAMATICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" X 20".**



EXHAUST FAN INFORMATION

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF	1	EA-USB124DD-RM	ECON-AIR	4686	1.750	1055	ODP,PREMIUM	5.000	2.6930	3	208	15.8	1553 FPM	757	22

MUA FAN INFORMATION

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCF	WEIGHT (LBS)	SONES
2	MUA	1	EA2-D.250-20D	20MF-2-MOD	A2-D.250	2000	3748	0.500	1442	ODP,PREMIUM	3.000	1.6970	3	208	9.5	13.1A	20A	686	13.1

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	MUA	258478	237800	61°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF	1	B124 - INLET SERVICE DUCT CONNECTION, USED TO CONNECT TO STANDARD 24" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER
		1	UTILITY SET GREASE CUP
		1	B124 - 24" DISCHARGE EXTENSION
		1	BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE
		1	B124 - INLET CONNECTION STANDARD 24" FLANGED GREASE DUCT
		1	UTILITY SET - SPRING VIBRATION ISOLATORS - B124 THRU B130 / EQUIVALENT SIZED UTILITY SET / SIF 24-30 + FILTER BANK - INDOOR/OUTDOOR USE
		1	UTILITY SET / SIF 24-30 + FILTER BANK - INDOOR/OUTDOOR USE
		1	UNIT MOUNTED VFD FOR USE WITH ECPM03
		1	2 YEAR PARTS WARRANTY
		2	MUA
1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC		
1	BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE)		
1	SHIP LOOSE GAS STRAINER 1"		
1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED		
1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING - MEETS AMCA CLASS 1A RATING		
1	SIZE 2 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS		
1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE - USED ON HEATERS UNDER 2500 CFM		
1	UNIT MOUNTED VFD FOR USE WITH ECPM03		
1	2 YEAR PARTS WARRANTY		

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF	YES						
2	MUA						YES	

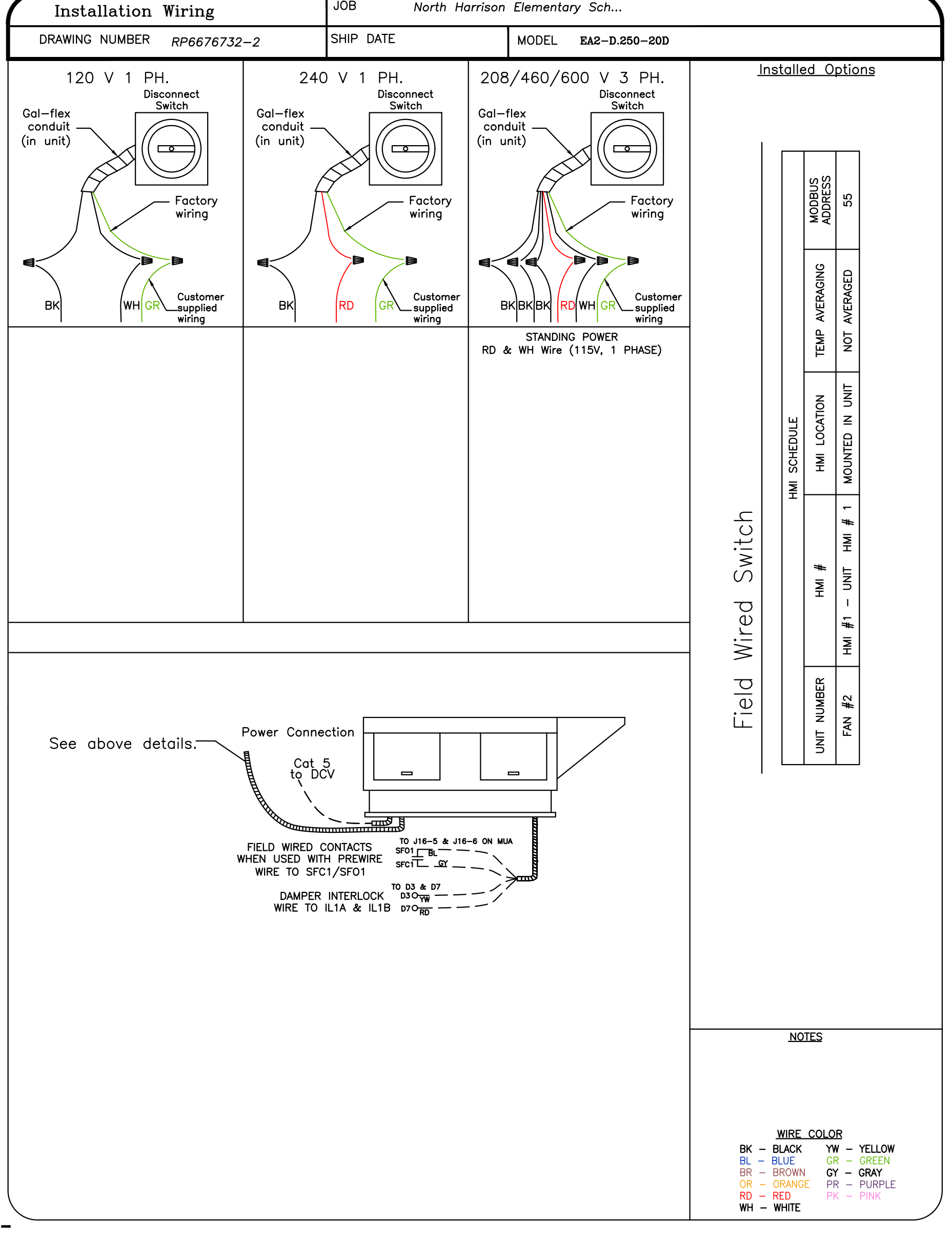
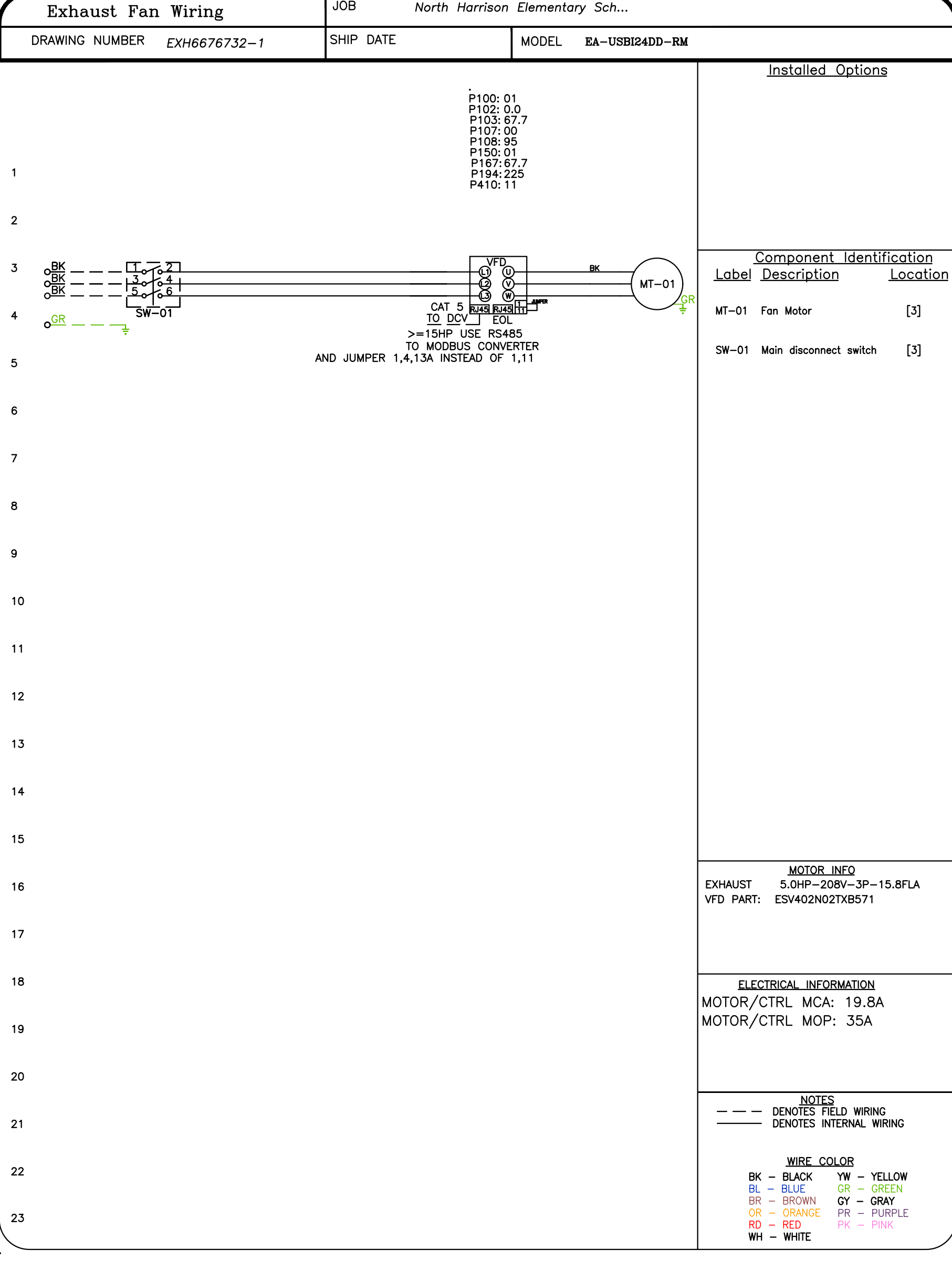
CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1		56 LBS	RAIL	4,000"W X 60,000"L X 12,000"H COMES AS A SET OF 2.
2	# 2	MUA	80 LBS	CURB	31,000"W X 79,000"L X 20,000"H INSULATED.

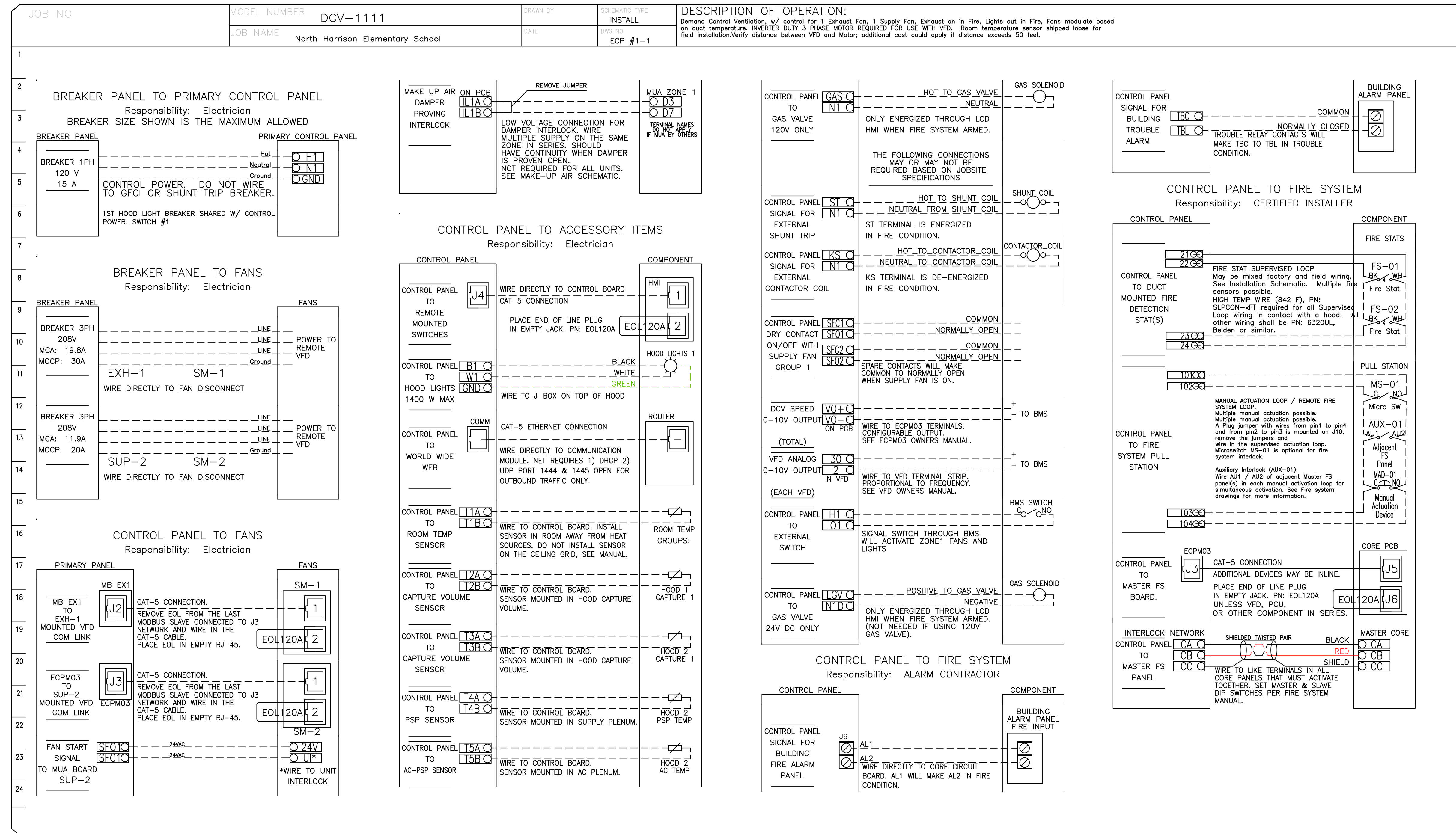
HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT #1	MOUNTED IN UNIT	NOT AVERAGED	55

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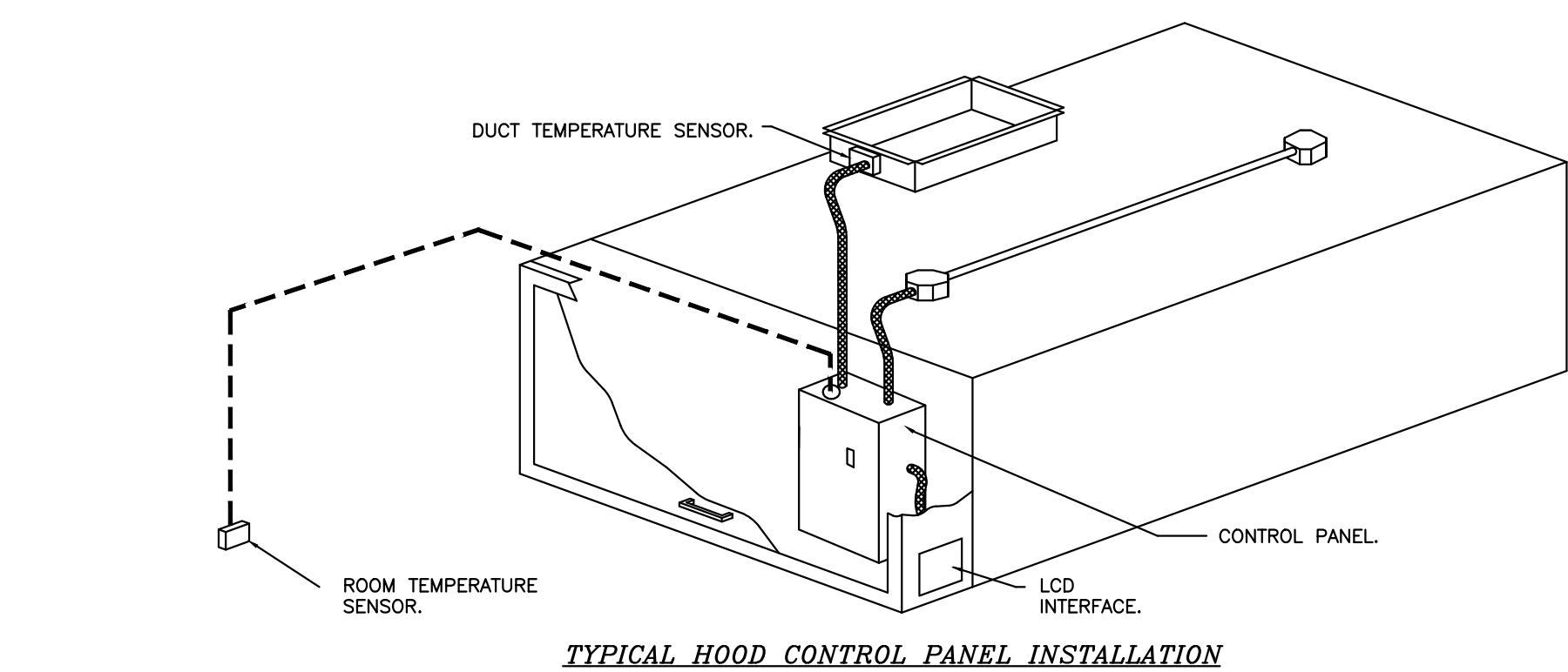


NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLTS	FLA
1		DCV-1111	WALL UTILITY CABINET LEFT	FACE MOUNT LEFT SIDE OF HOOD	1 LIGHT	SMART CONTROLS DCV	KEF	3	5,000	208	15.8
				HOOD # 1	1 FAN		MUA	3	3,000	208	9.5



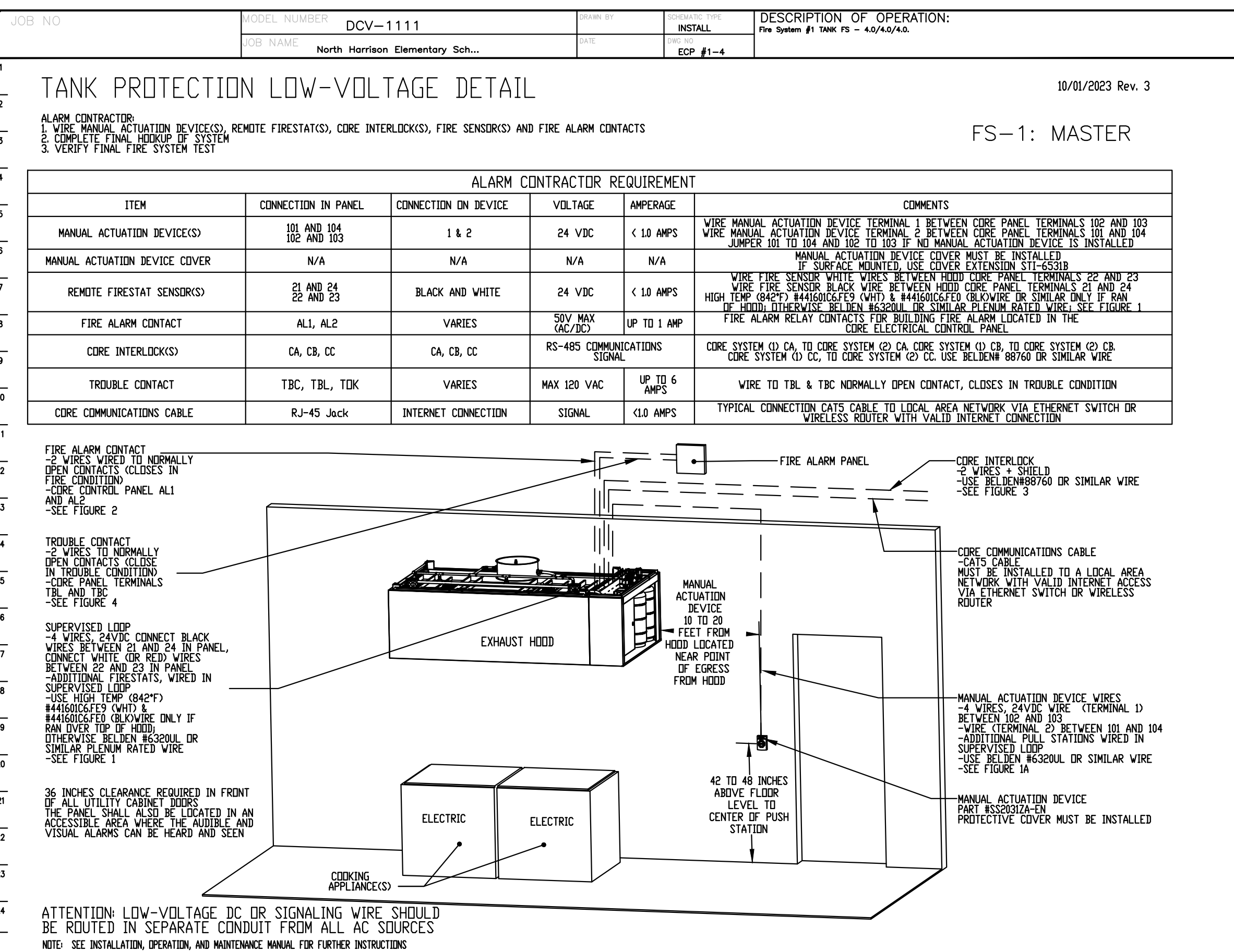
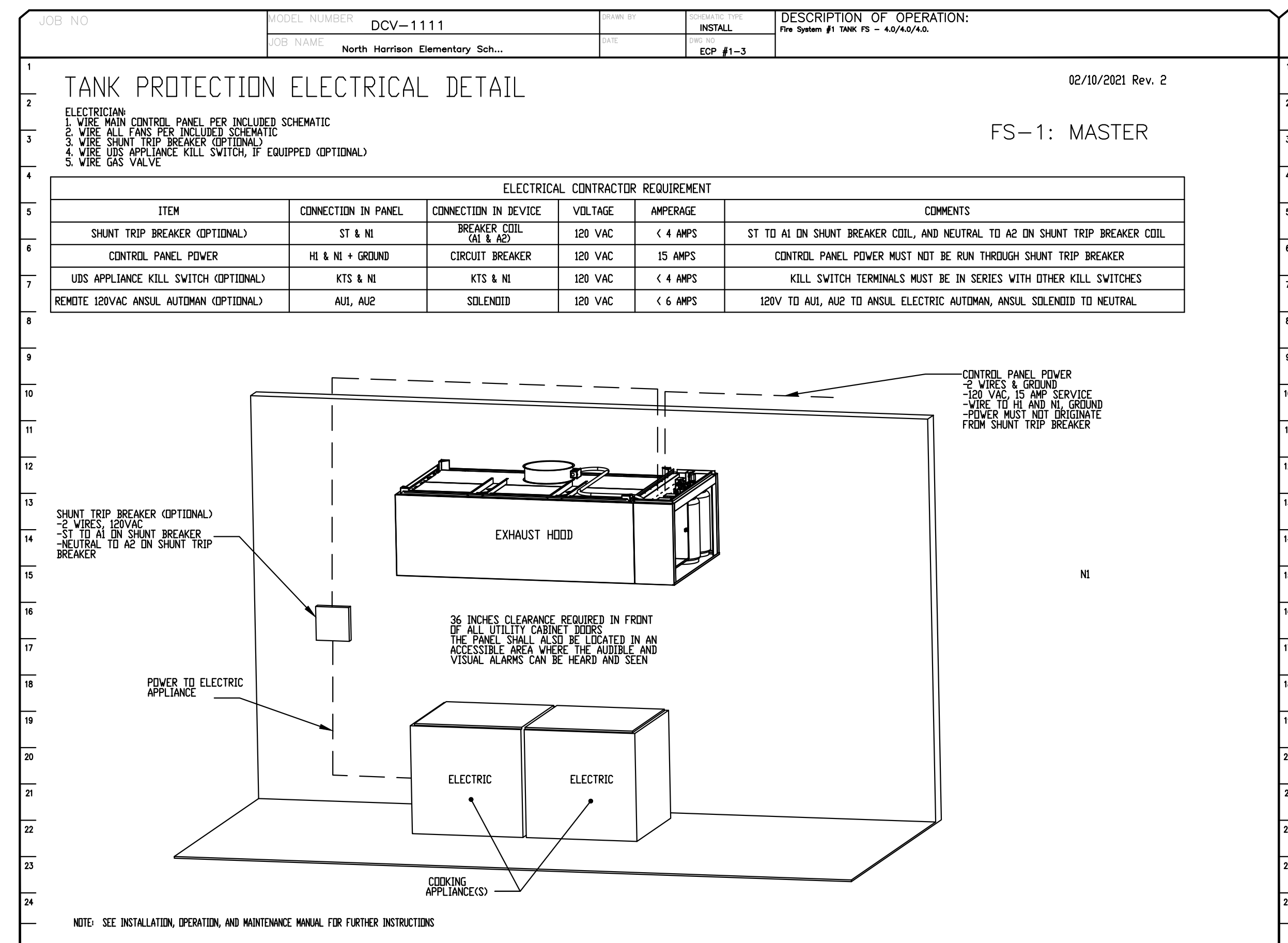
DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENCE BETWEEN THE AMBIENT AND DUCT TEMPERATURES. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDs) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDs BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT TIME REMAINS AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
 - ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
 - INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
 - VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
 - A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
 - AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDs.



SEQUENCE OF OPERATIONS:

- THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:
- AUTOMATIC:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
 - MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
 - SCHEDULE:** A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
 - OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
 - FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN. THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRIC GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

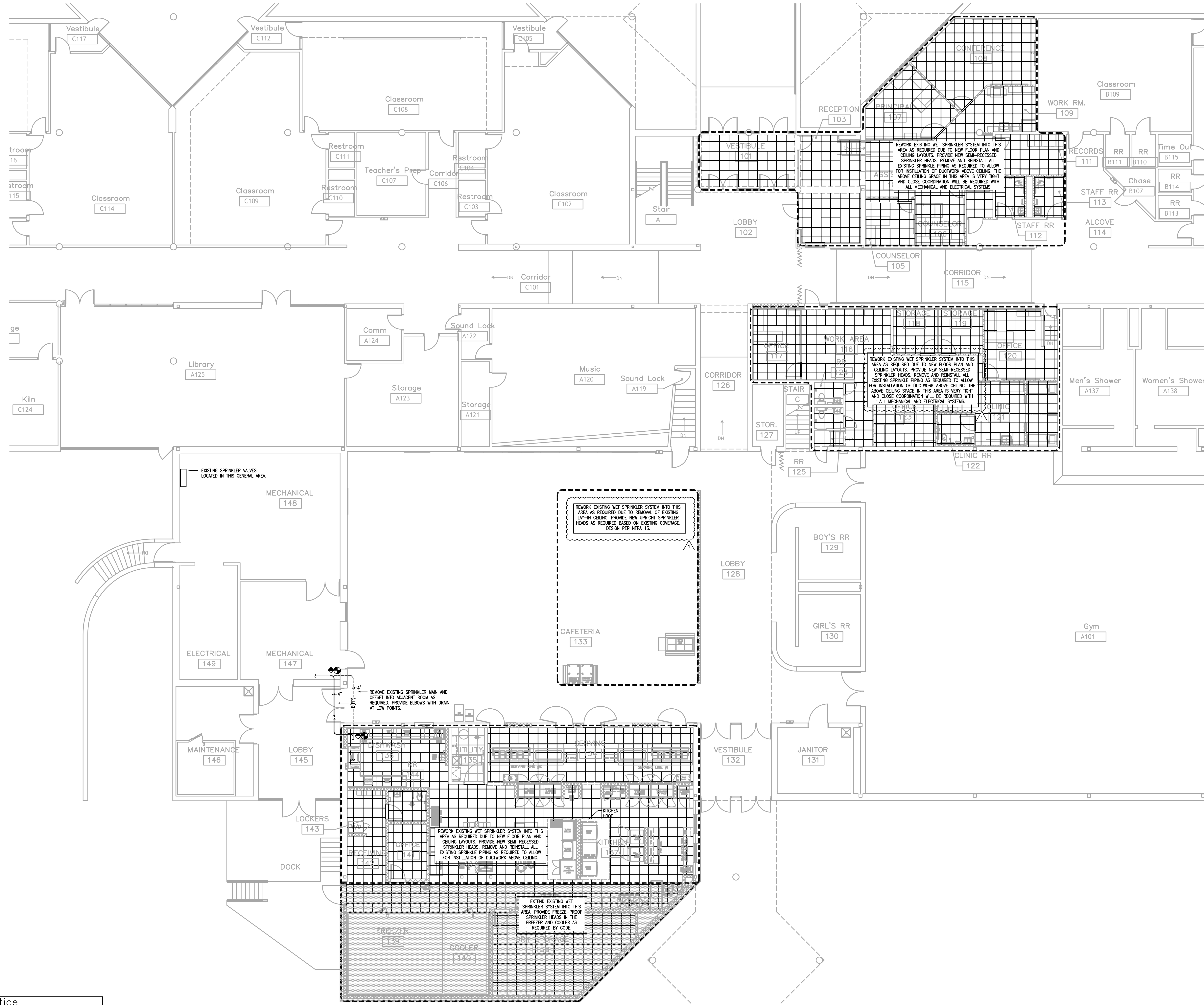


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UTILITY CABINET DIAGRAMS

NOTE: THESE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO DRAWING K401 FOR ACTUAL CONFIGURATION AND LAYOUT OF EQUIPMENT.



- GENERAL NOTES:**
- INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS WILL BE ABANDONED IN PLACE.
 - PATCH HOLES IN WALLS, FLOORS, CEILINGS, ROOFS, ETC. TO MATCH ADJACENT SURFACES AS A RESULT OF MECHANICAL SYSTEMS PATCH SHALL BE PERFORMED BY QUALIFIED TRADESMAN. PAINT ALL WALLS FROM CORNER TO CORNER TO MATCH ADJACENT CONDITIONS.
 - WHERE WORK IS REQUIRED ABOVE EXISTING CEILING AND/OR OUTSIDE OF WORKSCOPE AREA, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT, PATCH, REMOVAL, AND REINSTALLATION (OR REPLACEMENT IF DAMAGED) OF ALL CEILING TILES, HARD CEILING, AND GRID MEMBERS NECESSARY TO PERFORM THE WORK. THIS SHALL BE PERFORMED AT THIS CONTRACTOR'S EXPENSE.
 - MECHANICAL CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS DURING AND AFTER MECHANICAL EQUIPMENT DEMOLITION.
 - MECHANICAL CONTRACTOR SHALL DISPOSE OF DEMOLISHED MECHANICAL EQUIPMENT AND COORDINATE WITH THE CONSTRUCTION MANAGER.
 - PRIOR TO START OF DEMOLITION WORK, MECHANICAL CONTRACTOR SHALL VERIFY WITH ELECTRICAL CONTRACTOR THAT POWER FEEDS AND CONTROL WIRING HAVE BEEN DISCONNECTED AND LOCKED OUT FROM MECHANICAL EQUIPMENT WHICH IS TO BE REMOVED.
 - MECHANICAL CONTRACTOR SHALL REPAIR OR REPLACE ANY DUCT OR PIPING INSULATION DAMAGED DURING DEMOLITION WORK. WITHIN ALL AREAS OF WORK, ALL INSULATION MISSING OR DAMAGED SHALL BE REPAIRED OR REPLACED FOR ALL EXISTING SYSTEMS.
 - WHERE DUCT WORK OR PIPING IS REMOVED TO A MAIN, CAP AT MAIN AIRTIGHT. FIELD VERIFY EXACT CONDITIONS. PROVIDE ALL MATERIALS AS REQUIRED. PROVIDE NEW ISOLATIONS VALVES AT MAINS AS REQUIRED, OR EVERYWHERE NEW WORK TIES INTO EXISTING, AS A STANDARD FOR THE PROJECT. FIELD VERIFY EXACT EXTENT OF WORK PRIOR TO BID.
 - REMOVE ALL EXISTING ABANDONED PIPING ABOVE CEILING COMPLETELY INCLUDING ALL HANGERS, INSULATION, VALVES, ETC. CAP ALL AT MAINS AS REQUIRED.
 - REMOVE ALL EXISTING ABANDONED DUCTWORK ABOVE CEILING COMPLETELY INCLUDING ALL HANGERS, INSULATION, VALVES, ETC. CAP ALL AT MAINS AS REQUIRED.

TowerPinkster
Architecture · Engineering · Interiors

ISSUED FOR: Public Bidding Addendum 1
DATE: 04-03-2024 / 04-12-2024

PROFESSIONAL SEAL: REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING, NO. 1400823, STATE OF INDIANA

PROJECT TITLE: NORTH HARRISON ELEMENTARY SCHOOL
2024 ADDITIONS AND RENOVATIONS

OWNER: NORTH HARRISON COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW RAMSEY, IN 47166

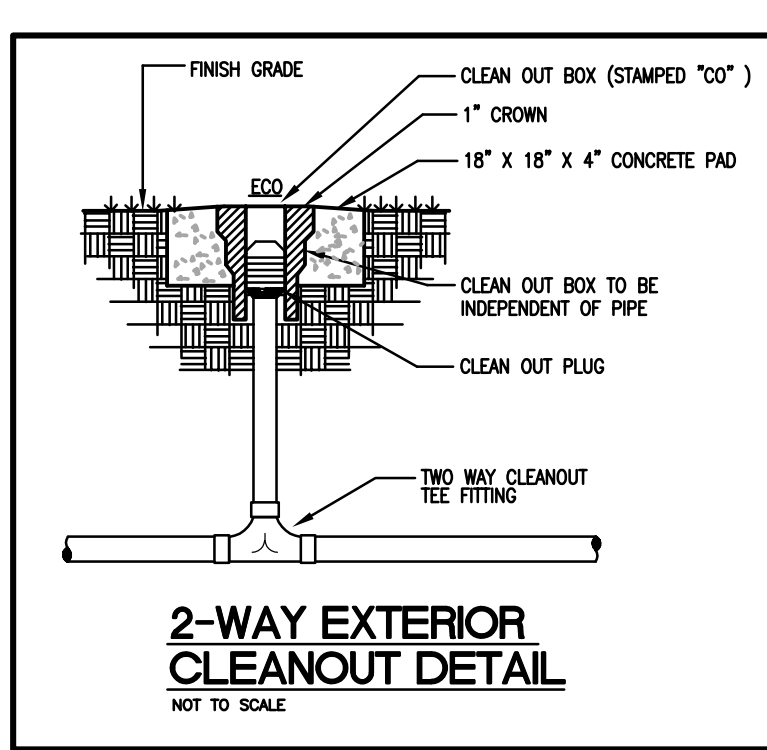
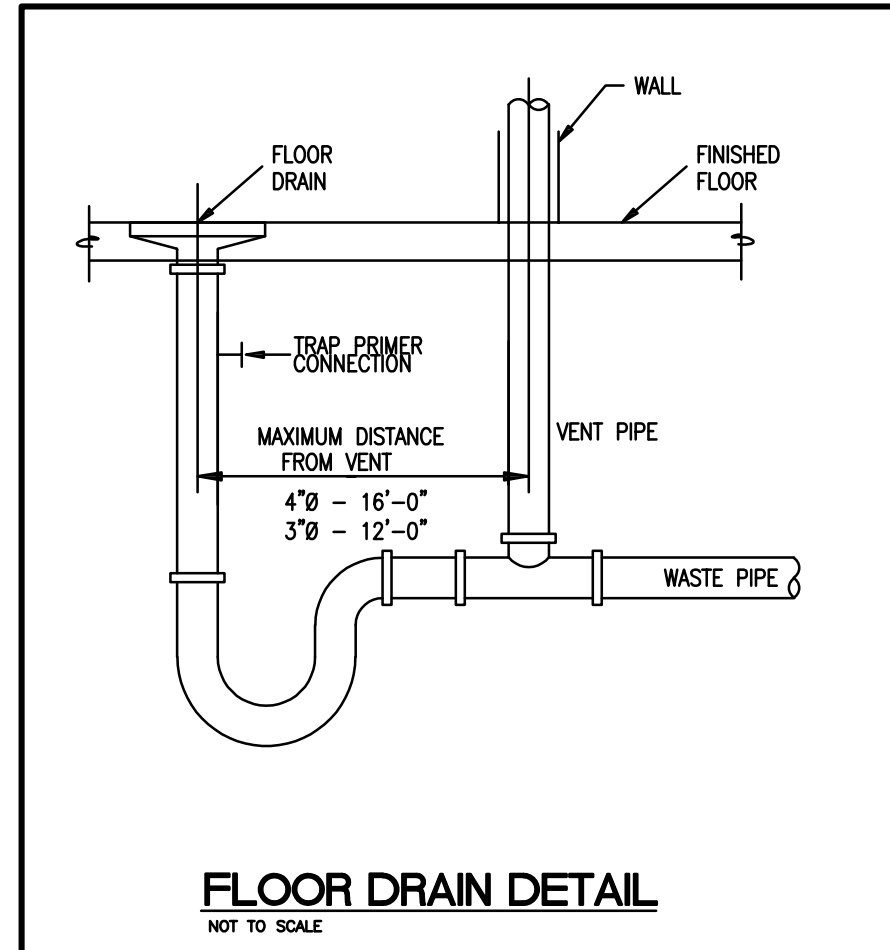
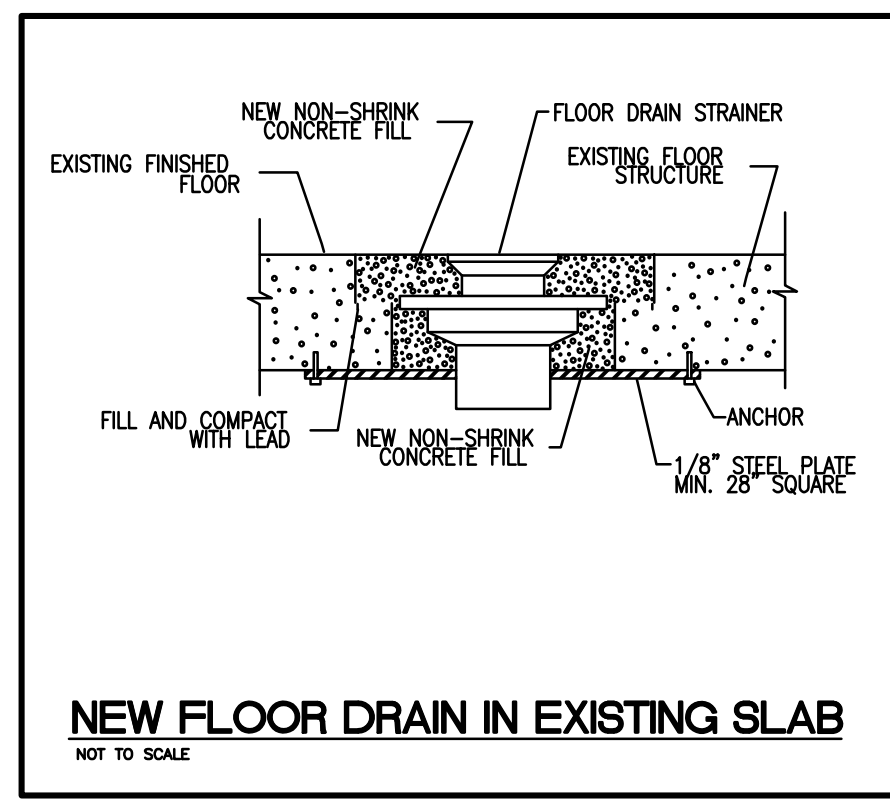
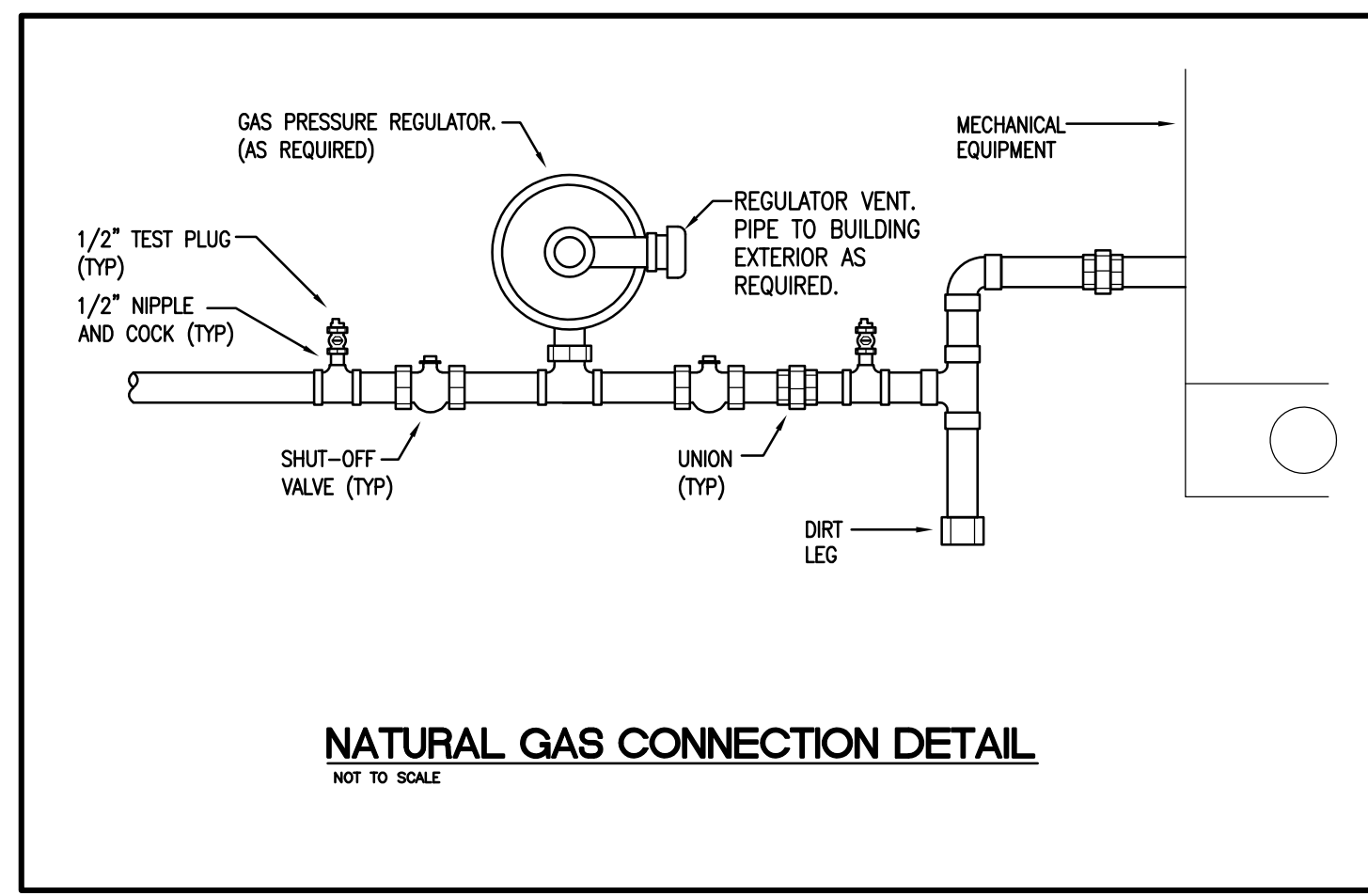
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Fire Protection Floor Plan
Scale: 1/8" = 1'-0"

Key Plan

CMTA
A L L Company
10411 Meeting Street, Prospect, Kentucky 40059
502.326.3065 | 502.326.2691
www.cmta.com

SHEET TITLE: Fire Protection Floor Plan
DATE: APRIL 3, 2024
SHEET NUMBER: FP200



GENERAL NOTES

- EACH CONTRACTOR, SUPPLIER AND, OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS AND AVOID CONFLICT WITH ANY OTHER BUILDING SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
- ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL, INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- DO NOT SCALE FROM DRAWINGS. PRINTING DISTORTS SCALE. WORK SHALL BE LAD OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL MATCH ADJACENT SURFACES. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCT WORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
- THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER LOCATIONS, DEPTHS, ELEVATIONS AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC. AT THE TIME OF BID.
- WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATIONS IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANY WAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER.
- ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
- COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, ETC. WITH ALL MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- THE PURPOSE AND INTENT OF ALL THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISE OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION.
- ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES. EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADES IN WRITING. REFER TO SEISMIC PROTECTION SPECIFICATIONS.
- DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- THE GENERAL CONTRACTOR FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC.
- VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT.
- THE GENERAL CONTRACTOR SHALL ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC. DO NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
- PROVIDE 1/2" ARMAFLEX CLOSED CELL, SELF SEALING PIPE INSULATION WHERE WATER PIPING COMES INTO CONTACT WITH CONCRETE. THIS APPLIES TO DOMESTIC AND SPRINKLING PIPING.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF PLUMBING VENTS THRU ROOF.

PLUMBING FIXTURE SCHEDULE

DESIGNATOR	FIXTURE	CW	HW	SAN	VENT
P-1	WATER CLOSET - FLUSH VALVE, WALL-MOUNTED - ADA HEIGHT	1/2"	---	4"	2"
P-1A	WATER CLOSET - FLUSH VALVE, FLOOR MOUNTED - ADA HEIGHT	1/2"	---	4"	2"
P-1B	WATER CLOSET - FLUSH TANK, FLOOR MOUNTED - ADA HEIGHT	N/A	N/A	N/A	N/A
P-2	LAVATORY - WALL-HUNG, BACKSPLASH - ADA COMPLIANT	1/2"	1/2"	2"	1/2"
P-3	STAINLESS STEEL 17" X 20" X 5" SINGLE BOWL DROP-IN ADA SINK	1/2"	1/2"	2"	1/2"
P-4	WASHING MACHINE CONNECTION BOX	3/4"	3/4"	2"	---
P-5	ICE MAKER CONNECTION BOX	1/2"	---	---	---
FD-1	FLOOR DRAIN	---	---	3"	2"
FD-2	FLOOR DRAIN W/ FUNNEL	---	---	3"	2"

- NOTES:**
- PIPE SIZES ARE AS INDICATED UNLESS OTHERWISE NOTED ON FLOOR PLANS AND RISER DIAGRAMS. MINIMUM 2" SANITARY PIPING UNDERGROUND.
 - PROVIDE ALL REQUIRED PIPING TO FIXTURES INDICATED ON THE FLOOR PLANS, INDICATED WITH A "2" DESIGNATOR. PROVIDE PIPING OF SIZE INDICATED IN THIS SCHEDULE.
 - PIPE ALL EQUIPMENT (SUPPLIED BY OTHERS) AS REQUIRED TO OBTAIN A FULL AND OPERATIONAL SYSTEM. PROVIDE BACKFLOW PROTECTION AS/IF REQUIRED BY THE DETAILS AND BY THE KENTUCKY PLUMBING CODE. ALL EQUIPMENT SHALL BE CONNECTED PER THE MANUFACTURER'S REQUIREMENTS. THE PLUMBING CONTRACTOR SHALL ALSO INSTALL ANY DRAIN PIPING CONNECTIONS AND SHALL INDIRECTLY TO EITHER AN OPEN RECEPTACLE OR FLOOR DRAIN. REFER TO ARCHITECTURAL PLANS FOR EXACT PLACEMENT OF ALL EQUIPMENT.

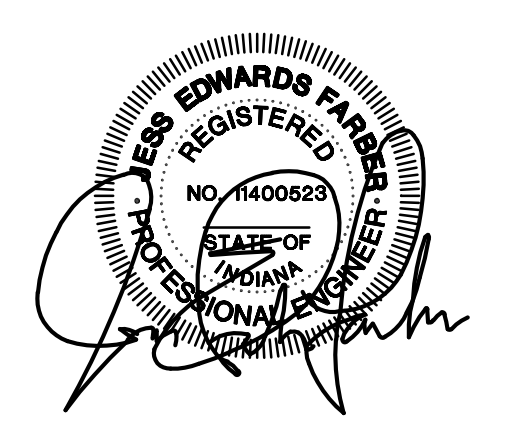
NEW GAS METER LOADS

METER #1	
EXISTING BOILERS (2 @ 1,999 MBH)	3,998 MBH
EXISTING WATER HEATERS (2 @ 199 MBH)	398 MBH
RTU-1	130 MBH
MAKE-UP AIR UNIT	260 MBH
MISC. BUILDING LOAD (EXISTING)	200 MBH
TOTAL CONNECTED LOAD:	4,986 MBH, PRESSURE (4" TO 10" WC)

PLUMBING LEGEND

ABOVE FINISHED FLOOR	---AFF---
BELOW FINISHED FLOOR	---BFF---
CAST IRON	---CI---
CLEANOUT	---CW---
COLD WATER	---CW---
DOMESTIC WATER CIRCULATING PUMP	---DP---
ELECTRICAL CONTRACTOR	---EC---
EXPANSION TANK	---ET---
EXTERIOR CLEANOUT	---ECO---
FLOOR DRAIN	---FD---
FLOOR SINK	---FS---
FREEZE PROOF WALL HYDRANT	---FPWH---
FREEZE PROOF ROOF HYDRANT	---FPRH---
GENERAL CONTRACTOR	---GC---
GREASE INTERCEPTOR	---GI---
HOSE BIBB	---HB---
HOT WATER	---HW---
INVERT ELEVATION	---IE---
MECHANICAL CONTRACTOR	---MC---
MIXING VALVE	---MV---
NEUTRALIZATION TANK	---NT---
OWNER FURNISHED CONTRACTOR INSTALLED	---OFCI---
OR	---OR---
OPEN RECEPTACLE	---OR---
PLUMBING CONTRACTOR	---PC---
POLYVINYL CHLORIDE	---PVC---
ROOF DRAIN	---RD---
SUMP PUMP	---SP---
TRAP PRIMER	---TP---
TRENCH DRAIN	---TD---
TYPICAL	---TYP---
VENT THROUGH ROOF	---VTR---
WATER HAMMER ARRESTOR	---WHA---
WATER HEATER	---WH---
WATER SOFTENER	---WS---
EXISTING SANITARY PIPING	---(ESAN)---
EXISTING STORM PIPING	---(ESS)---
EXISTING OVERFLOW STORM PIPING	---(EOSS)---
EXISTING SANITARY VENT PIPING	---(ESV)---
EXISTING DOMESTIC COLD WATER PIPING	---(ECW)---
EXISTING SOFTENED DOMESTIC COLD WATER	---(ECSW)---
EXISTING DOMESTIC HOT WATER PIPING	---(EHW)---
EXISTING DOMESTIC HOT WATER RETURN PIPING	---(EHWRT)---
EXISTING NATURAL GAS PIPING	---(EGAS)---
DEMO SANITARY PIPING	---(DSAN)---
DEMO STORM PIPING	---(DSS)---
DEMO OVERFLOW STORM PIPING	---(DOSS)---
DEMO SANITARY VENT PIPING	---(DSV)---
DEMO DOMESTIC COLD WATER PIPING	---(DCW)---
DEMO DOMESTIC HOT WATER PIPING	---(DHW)---
DEMO DOMESTIC HOT WATER RETURN PIPING	---(DHWRT)---
DEMO NATURAL GAS PIPING	---(DGAS)---
SANITARY PIPING	---SAN---
GREASE WASTE PIPING	---GW---
STORM PIPING	---SS---
OVERFLOW STORM PIPING	---OSS---
GREASE WASTE PIPING	---GL---
OIL WASTE PIPING	---OIL---
SANITARY VENT PIPING	---V---
DOMESTIC COLD WATER PIPING	---CW---
DOMESTIC HOT WATER PIPING (120' F)	---120'---
DOMESTIC HOT WATER RETURN PIPING (120' F)	---120'RT---
DOMESTIC HOT WATER PIPING (140' F)	---140'---
DOMESTIC HOT WATER RETURN PIPING (140' F)	---140'RT---
FILTERED COLD WATER	---FCW---
DEIONIZED WATER	---DI---
TRAP PRIMER PIPING	---TP---
RELIEF VALVE DISCHARGE	---RVD---
PRESSURE RELIEF VALVE	---PRV---
UNION	---U---
DIAL THERMOMETER	---DTM---
PRESSURE GAUGE	---PG---
GATE VALVE	---GV---
BALANCING VALVE	---BV---
SOLENOID VALVE	---SV---
GAS SHUT-OFF VALVE	---GSOV---
CHECK VALVE	---CV---
DOUBLE CHECK VALVE ASSEMBLY	---DCVA---
BALL VALVE	---BV---
BALL VALVE IN RISER	---BVR---
PIPING ELBOW (TURNED UP/DOWN)	---PE---
PIPING TEE (TURNED UP/DOWN)	---PT---
REDUCED PRESSURE BACKFLOW PREVENTER	---RPBF---
PRESSURE REDUCING VALVE	---PRV---

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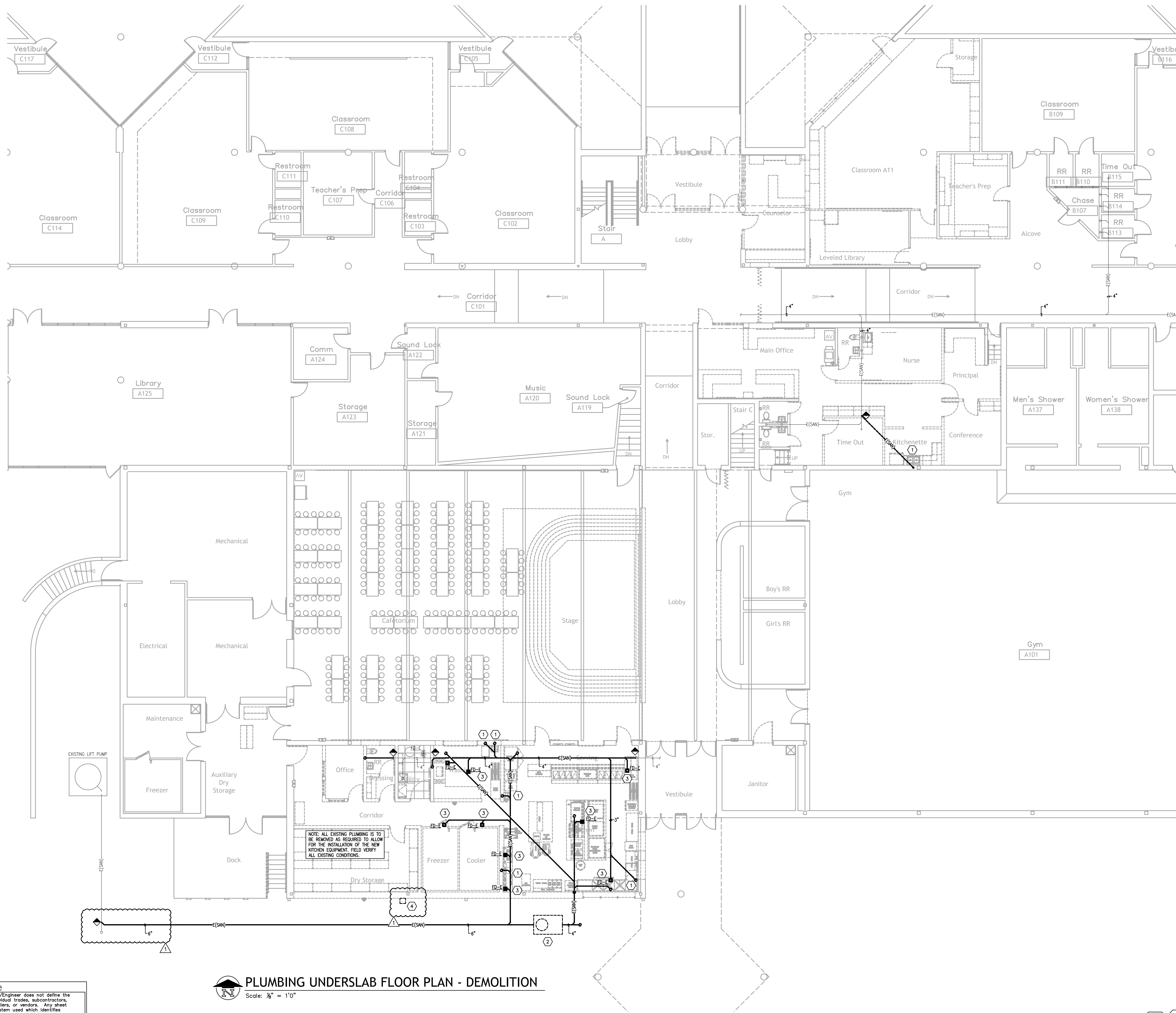


ISSUED FOR DATE
Public Bidding 04-03-2024
Addendum 1 04-12-2024

PROJECT TITLE
NORTH HARRISON
ELEMENTARY SCHOOL
2024 ADDITIONS AND
RENOVATIONS

OWNER
NORTH HARRISON
COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

SHEET TITLE
PLUMBING LEGEND, GENERAL NOTES, SCHEDULES
AND DETAILS
SHEET NUMBER
P100
DATE
APRIL 3, 2024

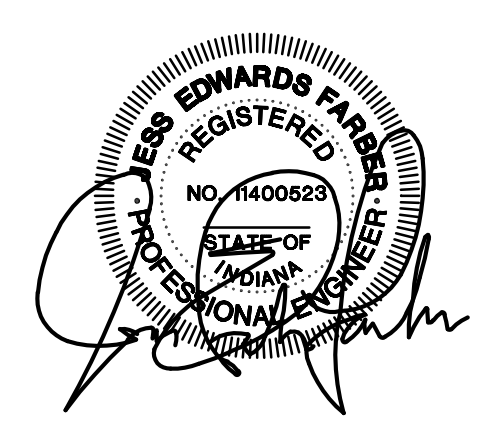


- PLUMBING UNDERSLAB DEMOLITION TAG NOTES:** (X)
1. DEMOLISH AND REMOVE EXISTING PLUMBING FIXTURE COMPLETELY. CAP ALL PIPING BEYOND FINISHED SURFACE AS REQUIRED.
 2. DEMOLISH AND REMOVE EXISTING GREASE INTERCEPTOR COMPLETELY. REMOVE ALL PIPING BACK TO POINTS AS INDICATED.
 3. DEMOLISH AND REMOVE FLOOR DRAIN COMPLETELY. CAP ALL PIPING BEYOND FINISHED SURFACE.
 4. DEMOLISH AND REMOVE EXISTING NATURAL GAS METER AND ALL ASSOCIATED PIPING. REMOVE NATURAL GAS PIPING TO BEYOND NEW BUILDING FOOTPRINT. FIELD VERIFY EXACT CONDITIONS.

NOTE: ALL EXISTING PLUMBING IS TO BE REMOVED AS REQUIRED TO ALLOW FOR THE INSTALLATION OF THE NEW KITCHEN EQUIPMENT. FIELD VERIFY ALL EXISTING CONDITIONS.

PLUMBING UNDERSLAB FLOOR PLAN - DEMOLITION
 Scale: 1/8" = 1'-0"

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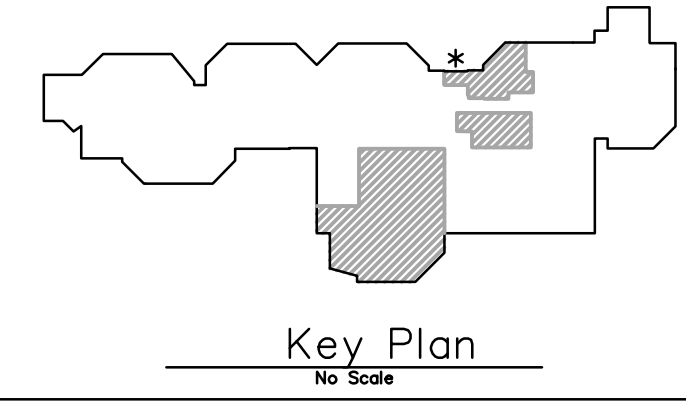


ISSUED FOR: Public Bidding Addendum 1
 DATE: 04-03-2024 / 04-12-2024

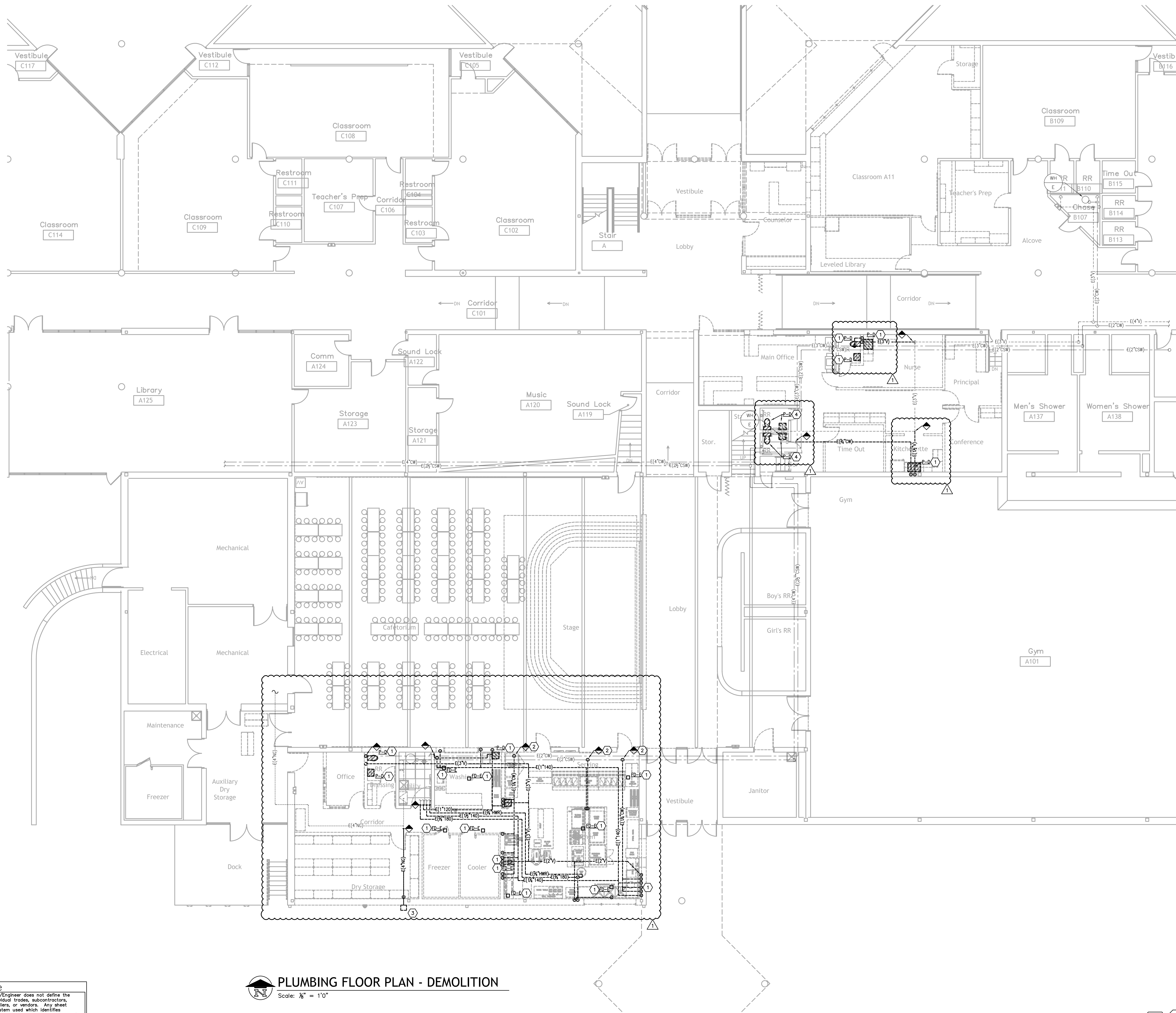
PROJECT TITLE
 NORTH HARRISON
 ELEMENTARY SCHOOL
 2024 ADDITIONS AND
 RENOVATIONS

OWNER
 NORTH HARRISON
 COMMUNITY SCHOOLS
 1115 W WHISKEY RUN RD. NW
 RAMSEY, IN 47166

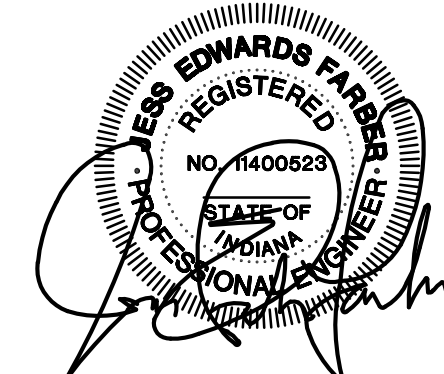
SHEET TITLE
 PLUMBING FLOOR PLAN - UNDERSLAB DEMOLITION
 SHEET NUMBER
P200
 DATE
 APRIL 3, 2024



CMTA
 A L.L. COMPANY
 10411 Meeting Street,
 Prospect, Kentucky 40059
 502.326.3065 F 502.326.2691
 www.cmta.com



- PLUMBING DEMOLITION TAG NOTES:**
- EXISTING PLUMBING FIXTURE TO BE REMOVED COMPLETELY. REMOVE ALL PIPING TO BEYOND FINISHED SURFACES.
 - CAP AT MAIN. REPLACE EXISTING PIPING 2" ON EITHER SIDE OF CAP WITH NEW.
 - REMOVE EXISTING GAS METER COMPLETELY, INCLUDING UNDERGRADE PIPING TO BEYOND BUILDING FOOTPRINT.
 - DEMOLISH AND REMOVE EXISTING PLUMBING FIXTURE, EXISTING ROUGH-INS TO REMAIN. REFER TO SHEET P300 FOR ADDITIONAL INFORMATION.



ISSUED FOR DATE
Public Bidding Addendum 1 04-03-2024
04-12-2024

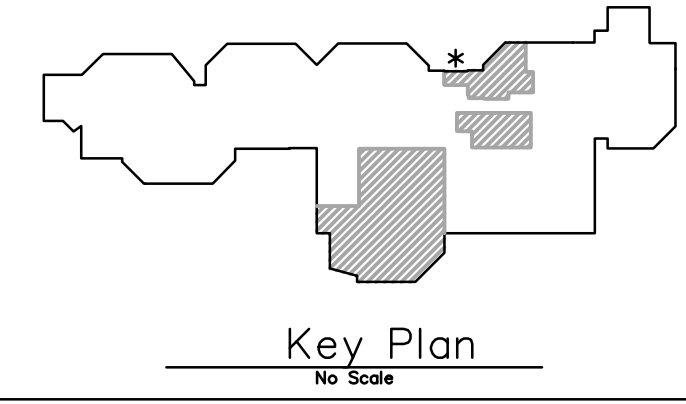
PROJECT TITLE
NORTH HARRISON
ELEMENTARY SCHOOL
2024 ADDITIONS AND
RENOVATIONS

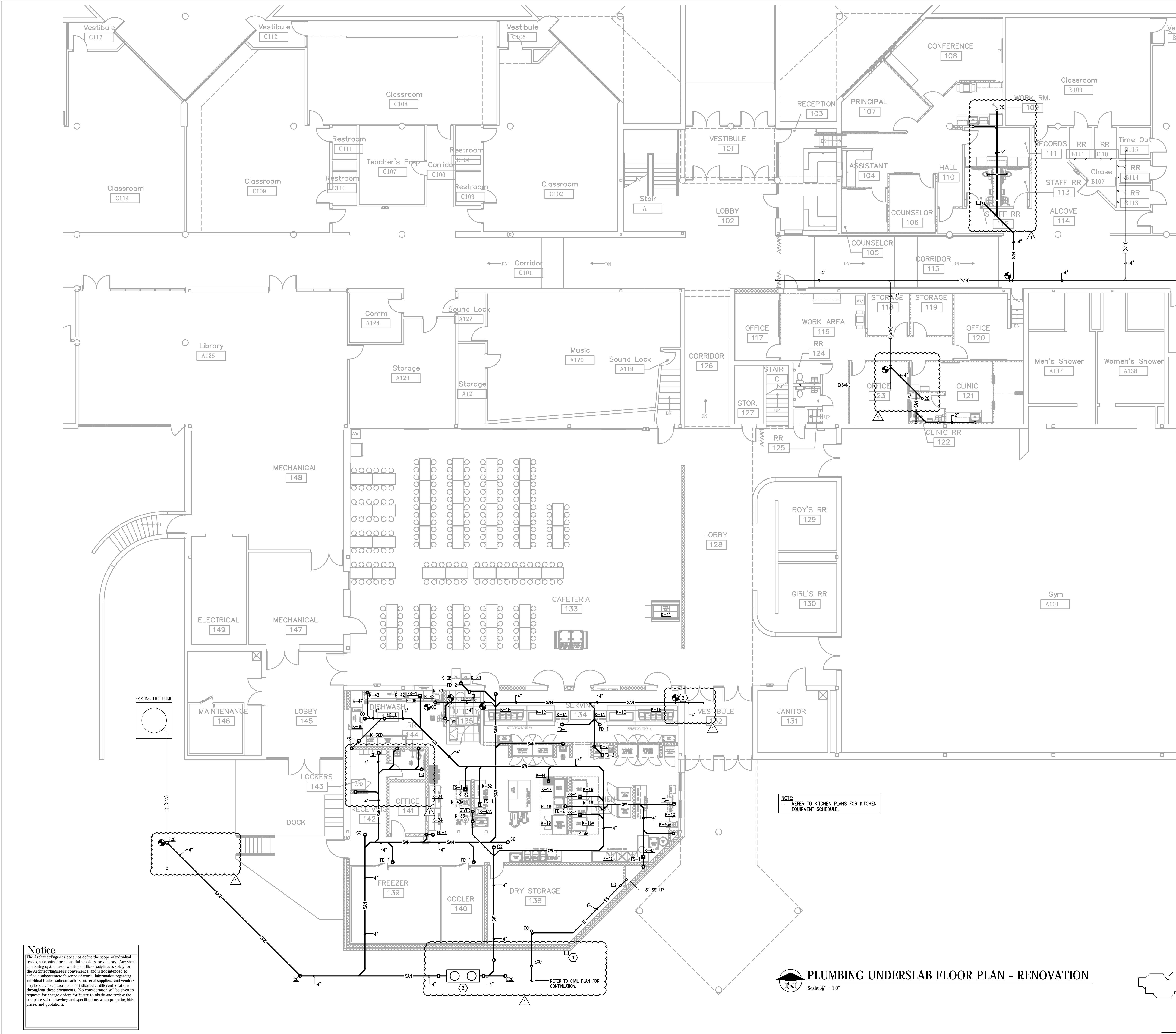
OWNER
NORTH HARRISON
COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

SHEET TITLE
PLUMBING FLOOR PLAN - DEMOLITION
DATE
APRIL 3, 2024
SHEET NUMBER
P201

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PLUMBING FLOOR PLAN - DEMOLITION
Scale: 1/8" = 1'0"





PLUMBING UNDERSLAB TAG NOTES:

1. NEW NATURAL GAS METER PROVIDED BY UTILITY COMPANY. CONTRACTOR IS TO INSTALL, AS REQUIRED. REFER TO NATURAL GAS EQUIPMENT SCHEDULE FOR SIZING INFORMATION. CONNECT TO EXISTING MAN AS REQUIRED.
2. CONNECT NEW SANITARY LINE TO EXISTING PIPING AS INDICATED.
3. PROVIDE AND INSTALL SCHER MODEL GB-250 GREASE INTERCEPTOR RATED AT 200 GPM WITH CAST IRON COVER. PROVIDE AS REQUIRED BY ALL LOCAL CODES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

NOTE: REFER TO KITCHEN PLANS FOR KITCHEN EQUIPMENT SCHEDULE.

PLUMBING UNDERSLAB FLOOR PLAN - RENOVATION
Scale: 1/8" = 1'-0"

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Key Plan

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10411 Meeting Street,
Prospect, Kentucky 40059
502.326.3065 | 502.326.2691
www.cmta.com

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PROFESSIONAL ENGINEER
No. 1400823
STATE OF KENTUCKY
PLUMBING

ISSUED FOR	DATE
Public Bidding Addendum 1	04-03-2024
	04-12-2024

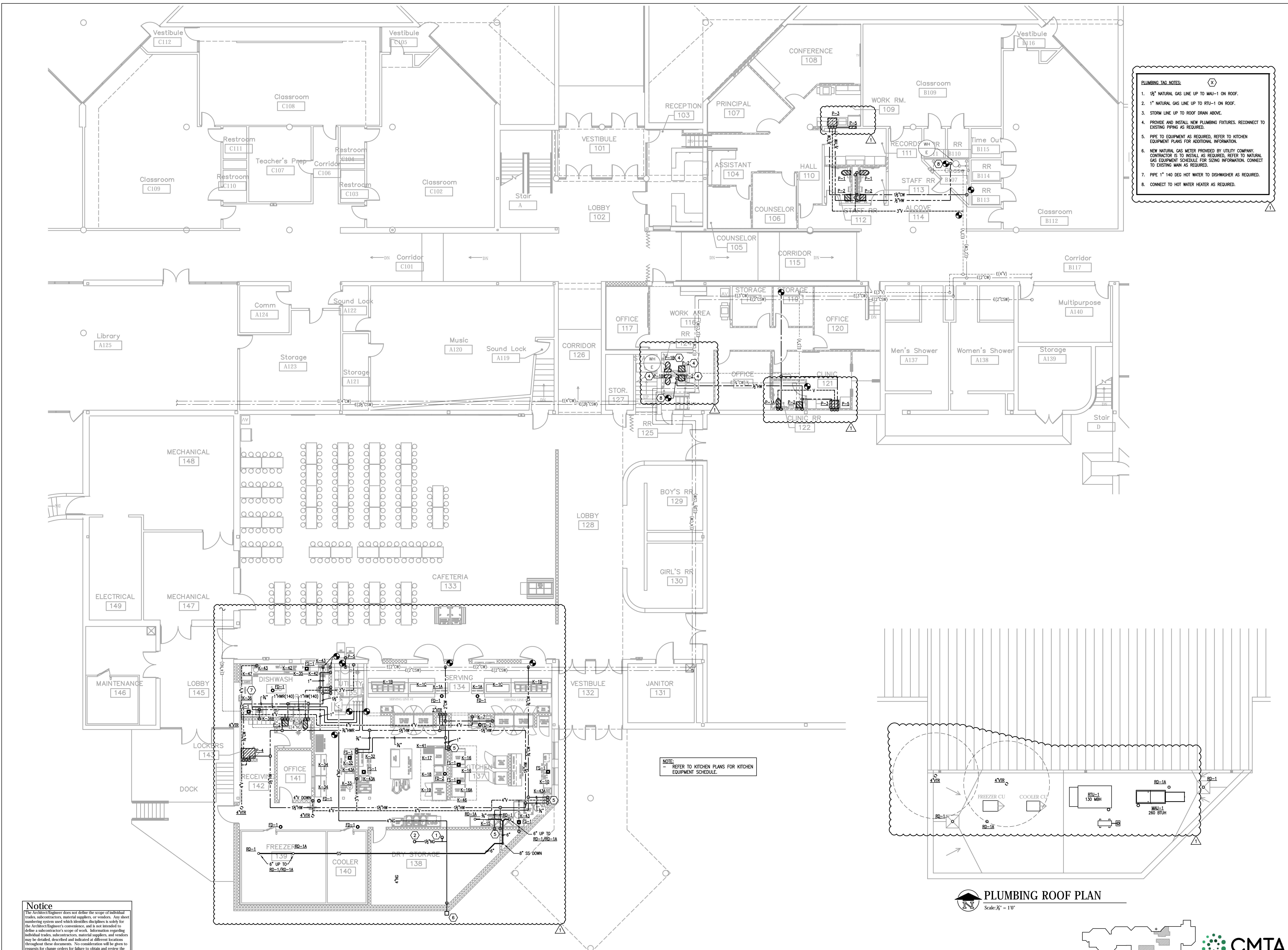
PROJECT TITLE
NORTH HARRISON ELEMENTARY SCHOOL
2024 ADDITIONS AND RENOVATIONS

OWNER
NORTH HARRISON COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

SHEET TITLE
PLUMBING FLOOR PLAN - UNDERSLAB RENOVATION

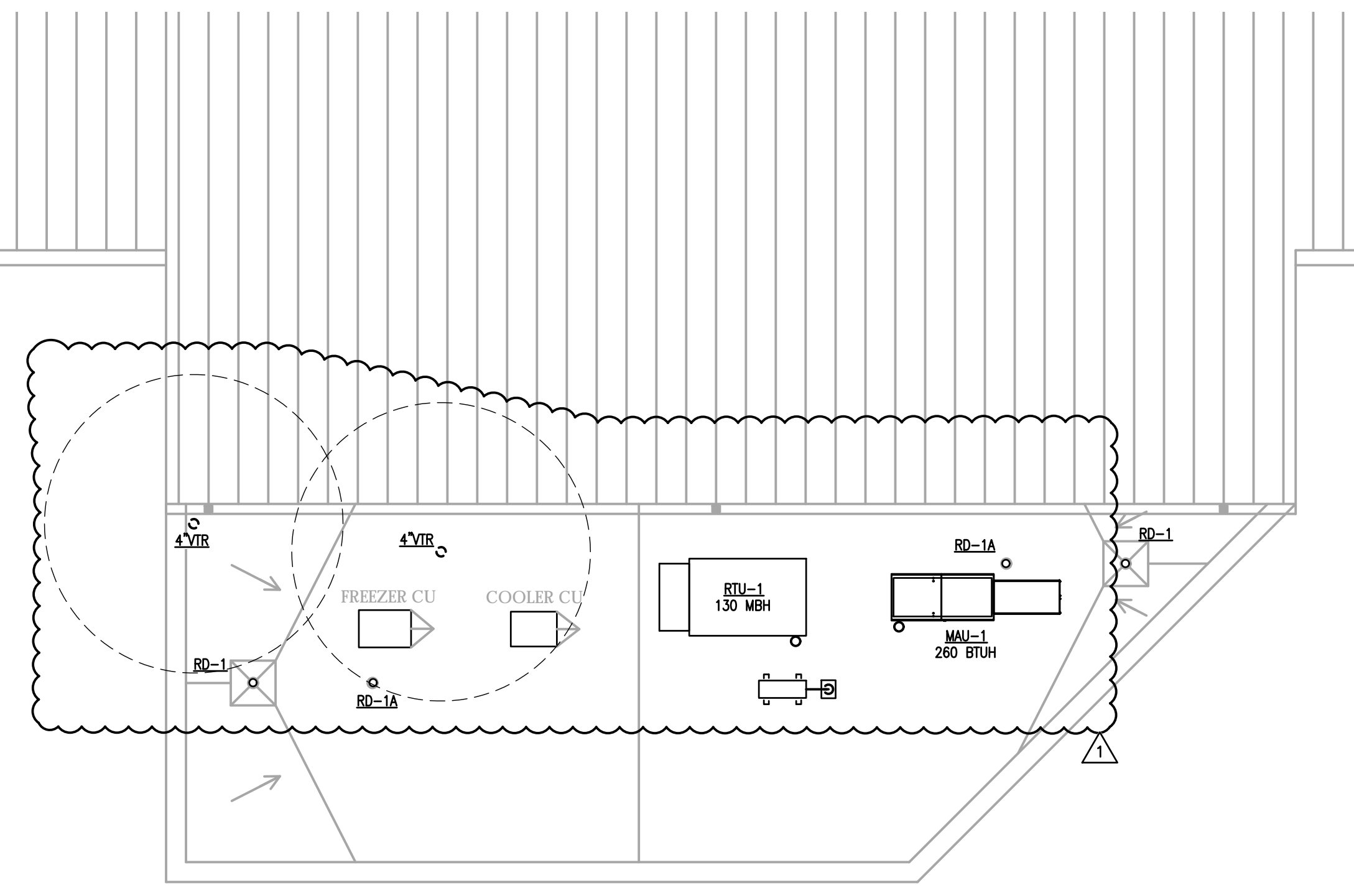
SHEET NUMBER
P300

DATE
APRIL 3, 2024

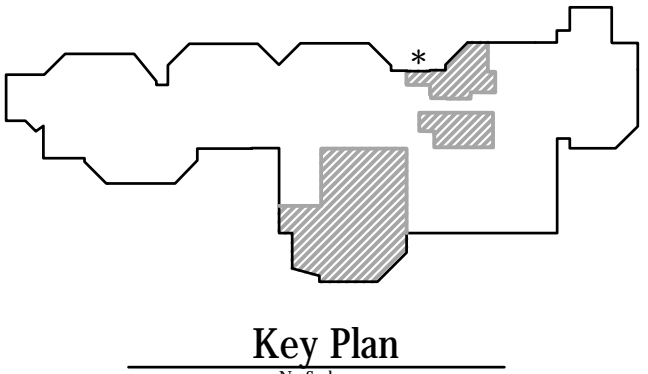


- PLUMBING TAG NOTES:**
1. 1/2" NATURAL GAS LINE UP TO MAU-1 ON ROOF.
 2. 1" NATURAL GAS LINE UP TO RTU-1 ON ROOF.
 3. STORM LINE UP TO ROOF DRAIN ABOVE.
 4. PROVIDE AND INSTALL NEW PLUMBING FIXTURES. RECONNECT TO EXISTING PIPING AS REQUIRED.
 5. PIPE TO EQUIPMENT AS REQUIRED. REFER TO KITCHEN EQUIPMENT PLANS FOR ADDITIONAL INFORMATION.
 6. NEW NATURAL GAS METER PROVIDED BY UTILITY COMPANY. CONTRACTOR IS TO INSTALL AS REQUIRED. REFER TO NATURAL GAS EQUIPMENT SCHEDULE FOR SIZING INFORMATION. CONNECT TO EXISTING MAIN AS REQUIRED.
 7. PIPE 1" 140 DEG HOT WATER TO DISHWASHER AS REQUIRED.
 8. CONNECT TO HOT WATER HEATER AS REQUIRED.

NOTE: REFER TO KITCHEN PLANS FOR KITCHEN EQUIPMENT SCHEDULE.



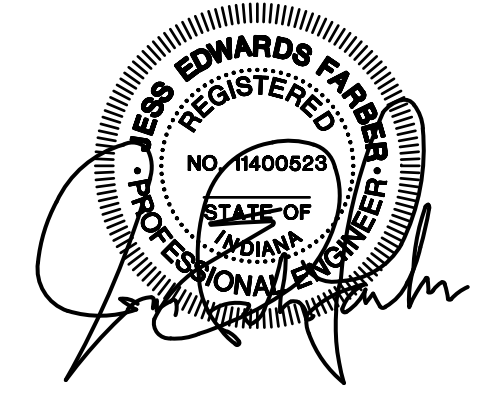
PLUMBING ROOF PLAN
Scale: 1/4" = 10'



Key Plan

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PLUMBING FLOOR PLAN - RENOVATION
Scale: 1/8" = 10'



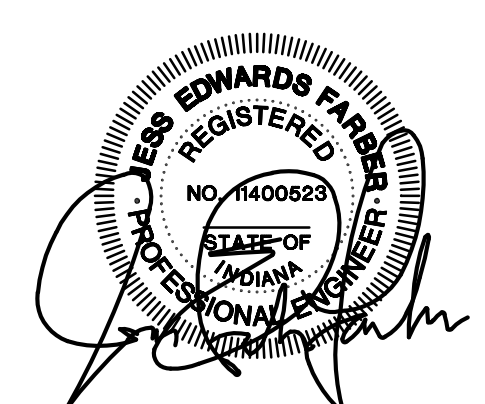
ISSUED FOR: Public Bidding Addendum 1
DATE: 04-03-2024
04-12-2024

PROJECT TITLE
**NORTH HARRISON
ELEMENTARY SCHOOL
2024 ADDITIONS AND
RENOVATIONS**

OWNER
**NORTH HARRISON
COMMUNITY SCHOOLS**
1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

SHEET TITLE
PLUMBING FLOOR PLAN - RENOVATION
DATE
APRIL 3, 2024
SHEET NUMBER
P301





ISSUED FOR DATE
Public Bidding Addendum 1 04-03-2024
04-12-2024

PROJECT TITLE
**NORTH HARRISON
ELEMENTARY SCHOOL**

2024 ADDITIONS AND
RENOVATIONS

OWNER
**NORTH HARRISON
COMMUNITY SCHOOLS**

1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

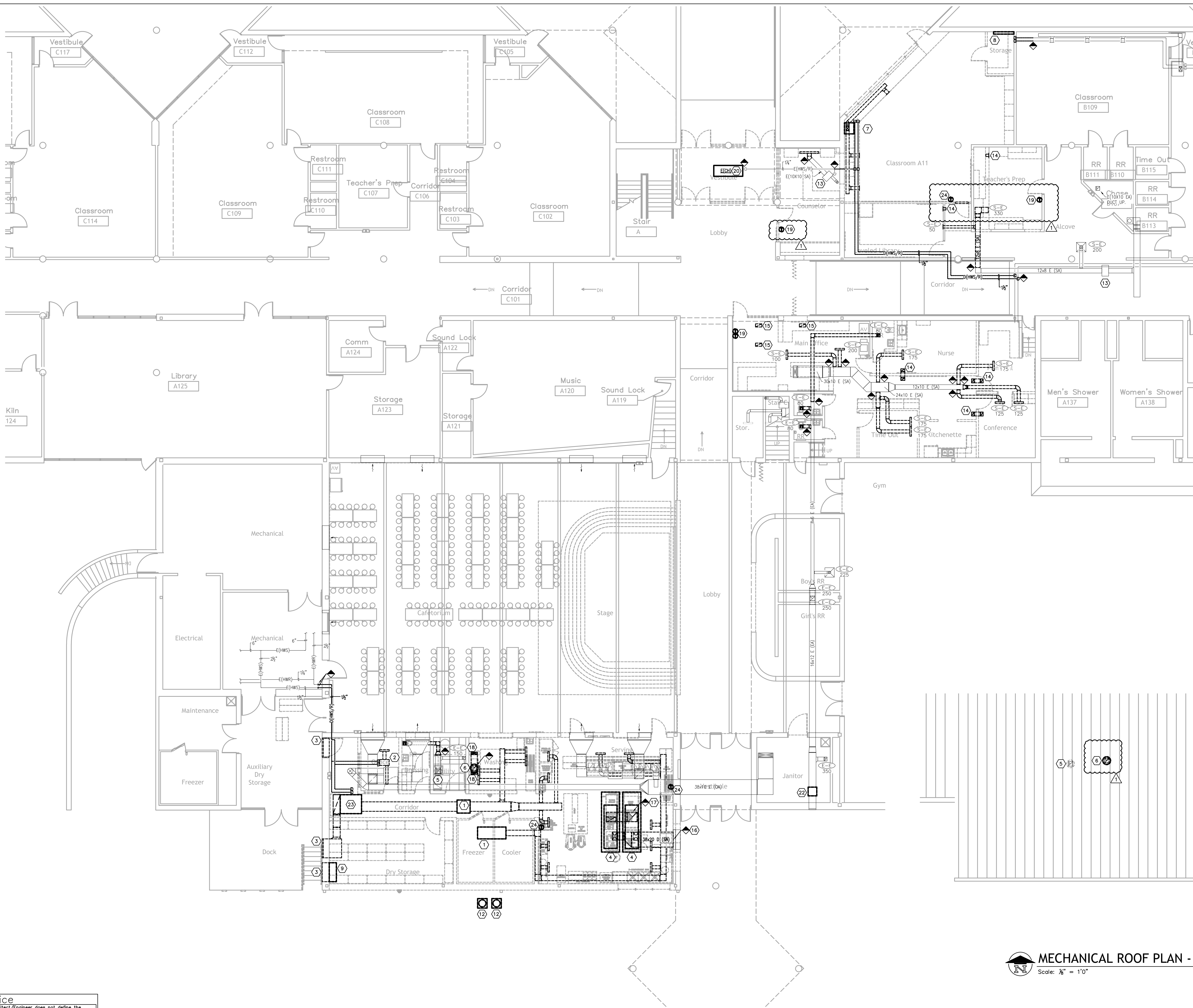
SHEET TITLE
MECHANICAL FLOOR PLAN - DEMOLITION

DATE
APRIL 3, 2024

SHEET NUMBER
M200

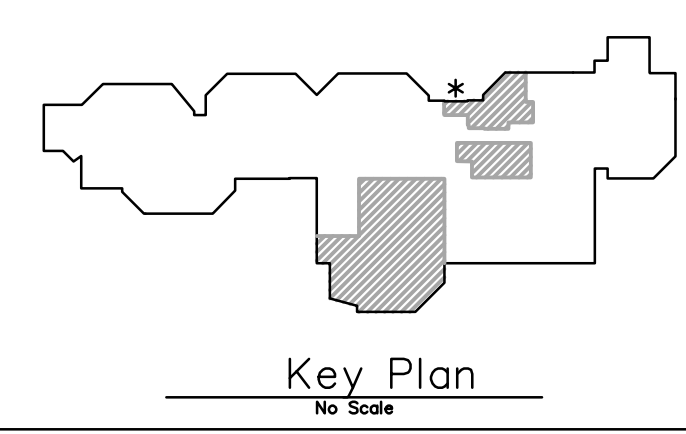
- GENERAL NOTES - MECHANICAL DEMOLITION:**
- INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE.
 - PATCH HOLES IN WALLS, FLOORS, CEILING, ROOFS, ETC. TO MATCH ADJACENT SURFACES AS A RESULT OF MECHANICAL SYSTEMS PATCH SHALL BE PERFORMED BY QUALIFIED TRADESMAN. PAINT ALL WALLS FROM CORNER TO CORNER TO MATCH ADJACENT CONDITIONS.
 - WHERE WORK IS REQUIRED ABOVE EXISTING CEILING AND/OR OUTSIDE OF WORKSCOPE AREA, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT, PATCH, REMOVAL, AND REINSTALLATION (OR REPLACEMENT IF DAMAGED) OF ALL CEILING TILES, HARD CEILING, AND GRID MEMBERS NECESSARY TO PERFORM THE WORK. THIS SHALL BE PERFORMED AT THIS CONTRACTOR'S EXPENSE.
 - MECHANICAL CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS DURING AND AFTER MECHANICAL EQUIPMENT DEMOLITION.
 - MECHANICAL CONTRACTOR SHALL DISPOSE OF DEMOLISHED MECHANICAL EQUIPMENT AND COORDINATE WITH THE CONSTRUCTION MANAGER.
 - PRIOR TO START OF DEMOLITION WORK, MECHANICAL CONTRACTOR SHALL VERIFY WITH ELECTRICAL CONTRACTOR THAT POWER FEEDS AND CONTROL WIRING HAVE BEEN DISCONNECTED AND LOCKED OUT FROM MECHANICAL EQUIPMENT WHICH IS TO BE REMOVED.
 - MECHANICAL CONTRACTOR SHALL REPAIR OR REPLACE ANY DUCT OR PIPING INSULATION DAMAGED DURING DEMOLITION WORK. WITHIN ALL AREAS OF WORK, ALL INSULATION MISSING OR DAMAGED SHALL BE REPAIRED OR REPLACED FOR ALL EXISTING SYSTEMS.
 - WHERE DUCT WORK OR PIPING IS REMOVED TO A MAIN, CAP AT MAIN AIRSIDE. FIELD VERIFY EXACT CONDITIONS. PROVIDE ALL MATERIALS AS REQUIRED. PROVIDE NEW ISOLATIONS VALVES AT MAINS AS REQUIRED, OR EVERYWHERE NEW WORK TIES INTO EXISTING AS A STANDARD FOR THE PROJECT. FIELD VERIFY EXACT EXTENT OF WORK PRIOR TO BID.
 - REMOVE ALL EXISTING ABANDONED PIPING ABOVE CEILING COMPLETELY INCLUDING ALL HANGERS, INSULATION, VALVES, ETC. CAP ALL AT MAINS AS REQUIRED.
 - REMOVE ALL EXISTING ABANDONED DUCTWORK ABOVE CEILING COMPLETELY INCLUDING ALL HANGERS, INSULATION, VALVES, ETC. CAP ALL AT MAINS AS REQUIRED.

- MECHANICAL DEMOLITION TAG NOTES (X)**
- DIS SPLIT UNIT, AND ALL ASSOCIATED PIPING, TO BE REMOVED COMPLETELY.
 - VAV BOX TO BE REMOVED COMPLETELY.
 - WALL LOUVER TO BE REMOVED. WALL TO BE INFILLED. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
 - KITCHEN HOOD, EXHAUST FAN, AND MAKEUP AIR UNIT TO BE REMOVED COMPLETELY.
 - 300 CFM EXHAUST FAN TO REMAIN.
 - 1000 CFM DISHWASHER EXHAUST FAN AND ALL ASSOCIATED DUCTWORK TO BE REMOVED COMPLETELY AND REPLACED. REFER TO SHEET M004 FOR ADDITIONAL INFORMATION.
 - UNIT VENTILATOR TO BE REMOVED COMPLETELY.
 - RADIANT HEATER TO BE REMOVED COMPLETELY, INCLUDING ALL DUCTWORK AND PIPING.
 - PTAC UNIT TO BE REMOVED COMPLETELY.
 - NOT USED.
 - EXISTING EXHAUST HOOD TO REMAIN.
 - CONDENSING UNIT, AND ALL ASSOCIATED PIPING, TO BE REMOVED COMPLETELY.
 - VAV BOX TO REMAIN.
 - TRANSFER DUCT TO BE REMOVED COMPLETELY.
 - RETURN GRILLE TO BE REMOVED COMPLETELY.
 - DEMOLISH AND REMOVE ALL EXISTING MAKE-UP AIR DUCTWORK BACK TO LOUVER AS INDICATED. CAP LOUVER WITH INSULATED SHEET METAL CAP.
 - 24x24 VERTICAL EXHAUST DUCT TO REMAIN.
 - DISCONNECT AND REMOVE EXHAUST DUCTWORK FROM EXISTING DISHWASHER SYSTEM.
 - EXISTING THERMOSTAT TO BE REMOVED AND RELOCATED. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
 - REMOVE EXISTING CABINET HEATER AS REQUIRED DUE TO INSTALLATION OF NEW CEILING. UNIT IS TO BE REINSTALLED.
 - DISCONNECT AND REMOVE EXISTING THERMOSTAT.
 - EXISTING INLINE EXHAUST FAN TO BE REMOVED AND REPLACED.
 - EXISTING AIR HANDLING UNIT TO BE REMOVED COMPLETELY.
 - EXISTING THERMOSTAT TO BE COMPLETELY REMOVED.



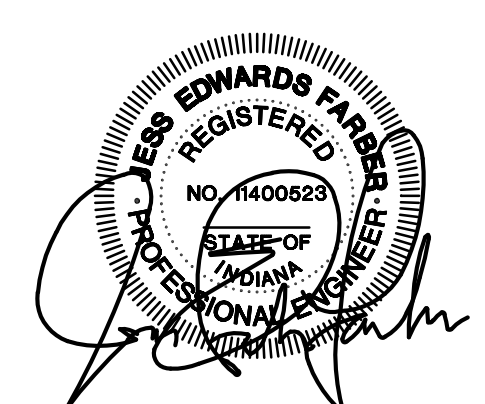
MECHANICAL ROOF PLAN - DEMOLITION
Scale: 1/8" = 1'-0"

MECHANICAL FLOOR PLAN - DEMOLITION
Scale: 1/8" = 1'-0"



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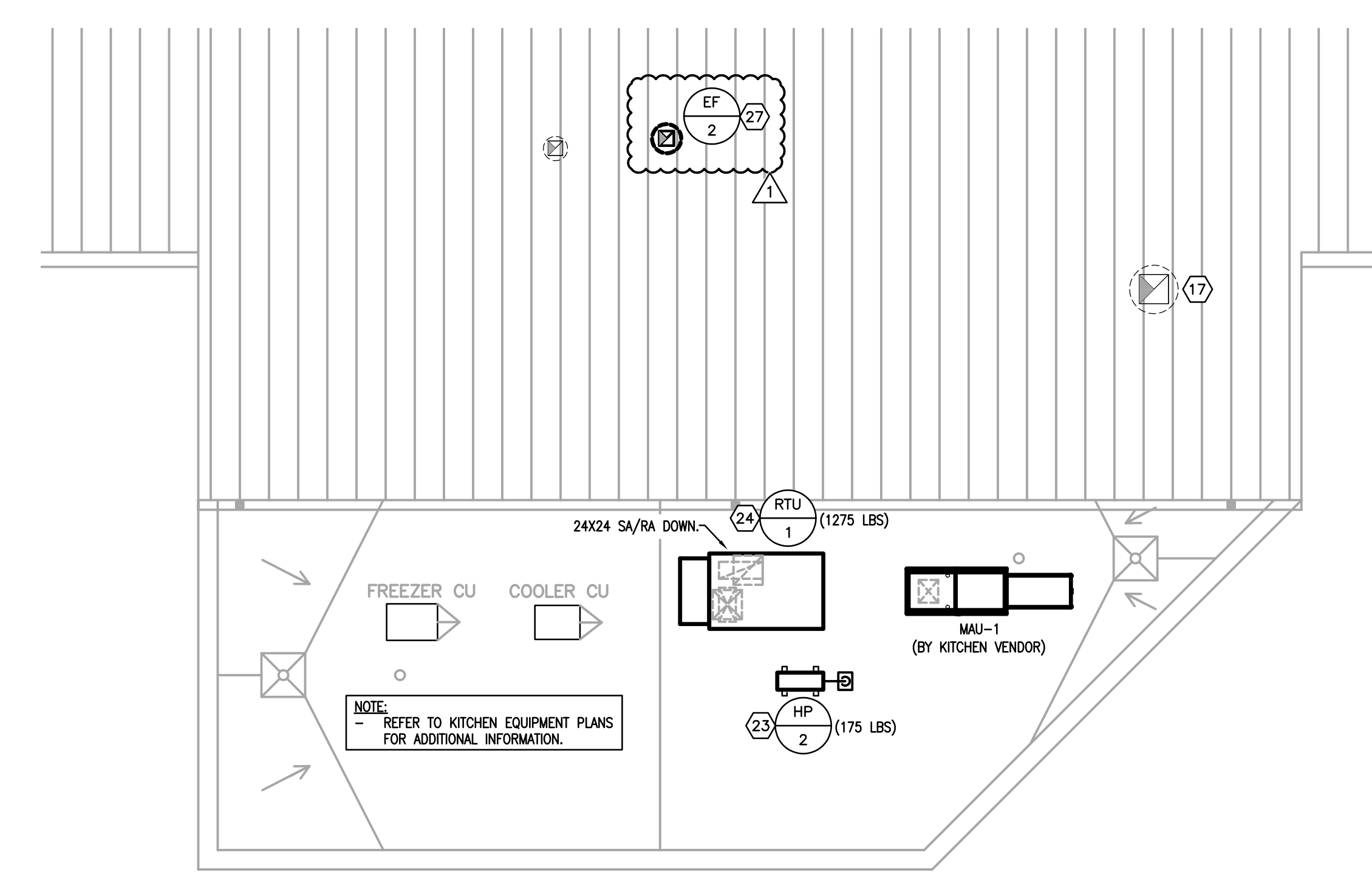
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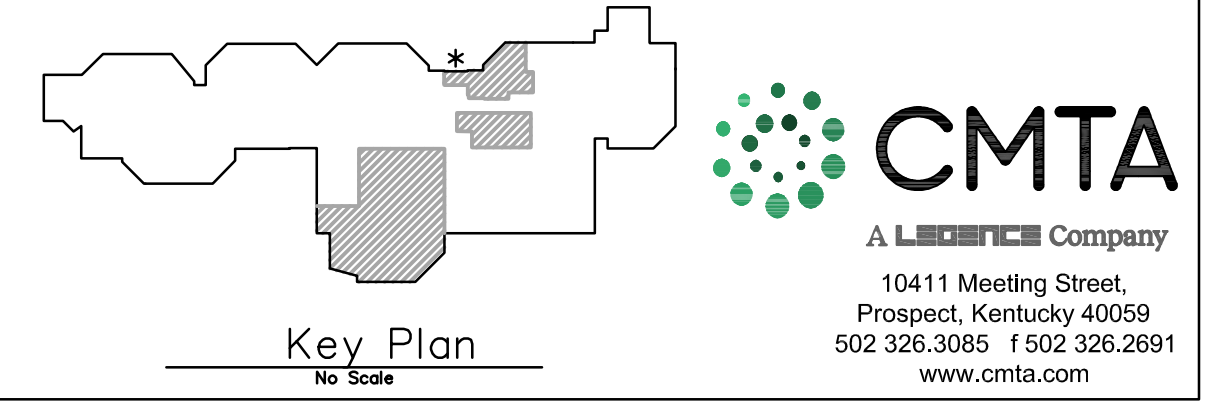
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Public Bidding Addendum 1 04-03-2024
04-12-2024

- MECHANICAL TAG NOTES:**
- CONNECT TO 16x4 DISHWASHER EXHAUST.
 - 12x6 TRANSFER OPENING ABOVE CEILING. REFER TO DETAIL.
 - DRYER EXHAUST, INSTALL PER CODE REQUIREMENTS.
 - RE-BALANCE EXISTING EXHAUST GRILLE TO FLOW INDICATED.
 - EXISTING 24x24 EA DUCT UP. CONNECT KITCHEN EXHAUST FAN DISCHARGE TO DUCT AS REQUIRED.
 - ARCHITECTURAL SOFFIT TO BE INSTALLED AS INDICATED. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
 - REMOVE AND REINSTALL EXISTING CABINET HEATER. RECONNECT HEATER TO EXISTING HOT WATER PIPING AS INDICATED.
 - KITCHEN EXHAUST FAN ON PLATFORM. CONNECT TO EXISTING RISER AS REQUIRED. REFER TO KITCHEN VENDOR PLANS FOR ADDITIONAL INFORMATION.
 - 16"x8" KITCHEN HOOD SUPPLY AIR, BALANCE TO 234 CFM EACH.
 - 36"x8" KITCHEN HOOD MAKEUP AIR, BALANCE TO 624 CFM EACH.
 - REFRIGERANT PIPING UP TO CONDENSING UNIT ON ROOF.
 - SPILL CONDENSATE DRAIN LINE AT FLOOR DRAIN NEXT TO COOLER AS INDICATED.
 - 20x20 OA UP TO MAKE-UP AIR UNIT ON ROOF. REFER TO KITCHEN VENDOR PLANS FOR ADDITIONAL INFORMATION.
 - 24x24 SA/RA UP TO RTU-1 ON ROOF.
 - SPILL 3/4" CONDENSATE TO GRADE. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
 - RELOCATE EXISTING THERMOSTAT TO NEW LOCATION AS INDICATED.
 - EXISTING EXHAUST HOOD TO REMAIN. REPAINT TO MATCH ROOF COLOR.
 - TRANSITION TO FAN OPENINGS. PROVIDE VIBRATION ISOLATORS AT DUCT CONNECTIONS.
 - NEW DISHWASHER EXHAUST DUCT TO BE STAINLESS STEEL. PROVIDE ACCESS DOORS AT ALL ELBOWS. PROVIDE NO TURNING VANES IN ELBOWS.
 - PROVIDE CONCRETE PAD UNDER NEW UNIT.
 - PROVIDE AND INSTALL ROUND ZONE DAMPER SIMILAR TO CARRIER MODEL OPNDR. DAMPER TO BE SAME SIZE AS DUCTWORK. INTERLOCK TO THERMOSTAT. REFER TO SPECIFICATIONS (TYPICAL).
 - DOC TEMPERATURE CONTROL PANEL. REFER TO SPECIFICATIONS.
 - ROUTE REFRIGERANT PIPING DOWN TO INDOOR UNIT. REFER TO PIPING PENETRATION DETAIL. INSTALL UNIT ON THYCRUB EQUIPMENT PALS.
 - PIPE CONDENSATE TO ROOF DRAIN FULL SIZE.
 - REFER TO SPECIFICATIONS FOR EXHAUST DUCT CONSTRUCTION INFORMATION.
 - 16" ROUND EXHAUST DUCT TO HOOD. BALANCE TO 2,343 CFM.
 - REMOVE AND REPLACE EXISTING EXHAUST FAN WITH NEW. PROVIDE CURB ADAPTER AS REQUIRED.

DUCT RUNOUT SCHEDULE					
GRILLE	DUCT SIZE	GRILLE	DUCT SIZE	GRILLE	DUCT SIZE
S-1	6"	R-1	6"	E-1	6"
S-2	8"	R-2	8"	E-2	8"
S-3	10"	R-3	10"	E-3	10"
S-4	10x4	R-4	12"	E-4	12"
		R-5	14"	E-5	14"
		R-6	24x24		
		R-6A	12x12		



MECHANICAL ROOF PLAN
Scale: 3/8" = 1'0"



MECHANICAL FLOOR PLAN - RENOVATION
Scale: 3/8" = 1'0"

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PROJECT TITLE
**NORTH HARRISON
ELEMENTARY SCHOOL**

OWNER
**NORTH HARRISON
COMMUNITY SCHOOLS**

SHEET TITLE
MECHANICAL FLOOR PLAN - RENOVATION

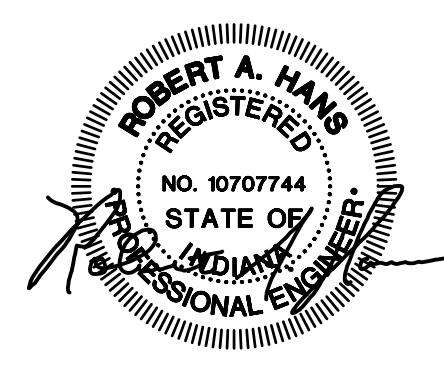
DATE
APRIL 3, 2024

SHEET NUMBER
M300

1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

2024 ADDITIONS AND
RENOVATIONS

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2024 ADDITIONS AND
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1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

SHEET TITLE
**PARTIAL FIRST FLOOR PLAN -
ELECTRICAL DEMOLITION - AREA A**

SHEET NUMBER
E200A

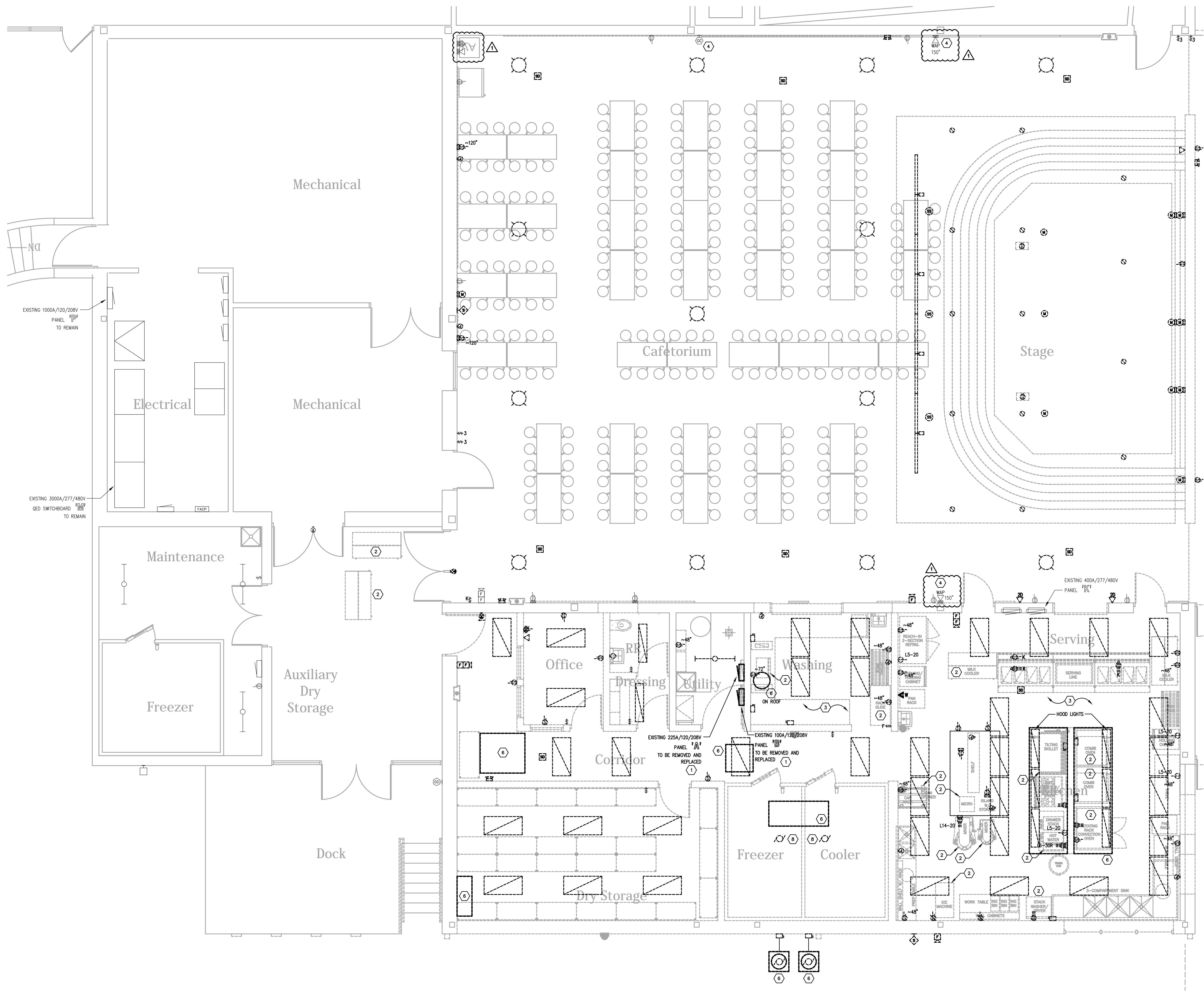
DATE
APRIL 3, 2024

GENERAL DEMOLITION NOTES :

- DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" OF THE CIRCUITS SHALL REMAIN IN "PRE-DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- LOCATIONS OF DEVICES, CONNECTIONS, ETC. INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (U.O.N.). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILING WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILING AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILING SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPEWRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNLID BREAKERS SHALL BE IN OFF POSITION. PROVIDE NEW PANEL BOARD LABEL PER DETAIL.
- ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW C-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.
- RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.
- LARGE EXISTING RECESSED DEVICES INDICATED AS DEMOLISHED (CLOCKS, EXIT SIGNS, SPEAKERS) SHALL BE PROVIDED WITH A BLANK COVER PLATE PAINTED TO MATCH. WHERE STUB OUT TURNS INTO EXPOSED FINISHED SPACE RACEWAYS SHALL BE SEALED FLUSH WITH WALL.
- EXISTING KETS COMPUTER DATA AND POWER BELOW CEILING, SURFACE BACKBOXES AND RACEWAYS ARE TO REMAIN FOR FUTURE WHERE POSSIBLE (U.O.N.) AND BE REUSED. WHERE UNUSED; IN CONFLICT W/ NEW WORK, CONTRACTOR SHALL REMOVE. PROVIDE SS BLANK COVERPLATE FOR EXISTING BOXES. EXISTING LOW VOLTAGE CABLING SHALL BE COMPLETELY REMOVED IN ALL LOCATIONS.
- CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF DUCTWORK AND PIPING.
- EXISTING SPLINE CEILING DEMOLISHED IN MANY LOCATIONS. CONTRACTOR SHALL RESUPPORT EXISTING TO REMAIN CONDUITS. CONTRACTOR SHALL SUPPORT UNSUPPORTED CONDUITS AND CEILING. PROVIDE ALL TREAD ROSS FROM STRUCTURE WITH CONDUIT HANGERS/STRAPS PER PER NEC 2017.
- EXISTING CABLING PATHS TO BE REMOVED BACK TO SOURCE AND REPLACED WITH NEW J-HOOK PATHWAYS PER DETAIL. ALL LOW VOLTAGE CABLING SHALL BE SUPPORTED.
- PROVIDE NEW MOUNTING BRACKETS FOR ALL REINSTALLED TV'S.
- ALL RECEPTACLES SHOWN AS EXISTING TO REMAIN SHALL BE REPLACED IN PLACE WITH NEW TAPERED RESISTANT DEVICE. EXISTING WIRING SHALL BE REUSED UNLESS NOTED OTHERWISE.

TAGGED NOTES :

- EXISTING PANEL INDICATED SHALL BE REMOVED AND REPLACED. CONTRACTOR SHALL REWORK EXISTING REMAINING BRANCH CIRCUITS TO NEW PANEL AND PROVIDE NEW BRANCH BREAKERS TO MATCH EXISTING. REFER TO PANEL REPLACEMENT/RELOCATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- EXISTING KITCHEN EQUIPMENT INDICATED TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN. CONTRACTOR SHALL INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW LOCATION WHERE POSSIBLE. RACEWAYS SHALL BE RE-SUPPORTED AS REQUIRED TO COMPLY WITH NFPA 70.
- EXISTING KITCHEN EQUIPMENT NOT INDICATED WITH A KEYNOTE TO BE REMOVED, PROTECTED DURING CONSTRUCTION AND RETURNED TO OWNER.
- REMOVE AND REINSTALL EXISTING ELECTRICAL DEVICE INDICATED. FIELD VERIFY EXACT CONDITIONS.
- EXISTING ELECTRICAL DEVICE INDICATED SHALL BE REMOVED AND RELOCATED. SEE NEW POWER/SYSTEMS PLANS FOR NEW LOCATION.
- ALL EXISTING MECHANICAL EQUIPMENT AND ALL ASSOCIATED DEVICES, CONDUIT, FEEDERS, DISCONNECTING MEANS, ETC. TO BE REMOVED. COMPLETELY BACK TO SOURCE AS INDICATED. COORDINATE EXACT REQUIREMENTS, LOCATIONS, ETC. WITH MECHANICAL CONTRACTOR.
- EXISTING LIGHT FIXTURE TO BE REMOVED AND REINSTALLED IN EXISTING CEILING. REFER TO NEW LIGHTING PLAN FOR NEW LOCATION.
- COMPRESSORS FOR EXISTING COOLER AND FREEZER TO BE REMOVED AND REPLACED ONTO NEW ROOF. REFER TO POWER/SYSTEMS PLANS FOR NEW LOCATIONS.
- EXISTING INTERCOM SYSTEM SHALL REMAIN AT LOCATION INDICATED AS PART OF INTERCOM SYSTEM ALTERNATE. IN THE BASE BID, THE CONTRACTOR SHALL REMOVE EXISTING DEVICES AND PROVIDE CABLING PATHS PER DETAILS AND SPECIFICATIONS TO INTERCOM DEVICE LOCATIONS FOR DEVICE CABLING AND EQUIPMENT INSTALLATION BY THE OWNER THROUGH A SEPARATE CONTRACT. AS PART OF THE ALTERNATE, THE CONTRACTOR SHALL PROVIDE NEW DEVICES AND CABLING TO EXPAND THE EXISTING SYSTEM AS REQUIRED FOR REMOVED SPACES AS SHOWN ON THE DRAWINGS. ALL NEW DEVICE CABLING SHALL BE ROUTED TO EXISTING RACK WITH ADDITIONAL LENGTH AS REQUIRED FOR FUTURE EXTENSION TO IDF RACK LOCATED IN STORAGE 127. ALTERNATE PRICE SHALL INCLUDE ALL REQUIRED DEVICES, CABLING AND HEAD-END EQUIPMENT EXPANSION REQUIRED TO ACCOMMODATE NEW SPEAKERS AND ZONES INDICATED ON PLANS. CONTRACTOR SHALL FIELD VERIFY EXACT CONDITIONS PRIOR TO BID TO DETERMINE CONDITION OF EXISTING EQUIPMENT.
- EXISTING CABINET HEATER TO BE REMOVED AND REINSTALLED IN PLACE. PRESERVE EXISTING ELECTRICAL CONNECTIONS AND RECONNECT. COORDINATE EXACT REQUIREMENTS, LOCATIONS, ETC. WITH MECHANICAL CONTRACTOR.
- EXISTING INTERCOM SYSTEM HANDESET SHALL BE RELOCATED TO NEW RECEPTION DESK AS INDICATED ON NEW WORK PLANS AS PART OF INTERCOM SYSTEM ALTERNATE.
- WIRELESS ACCESS POINTS INDICATED FOR REMOVAL SHALL BE TURNED OVER TO THE OWNER.



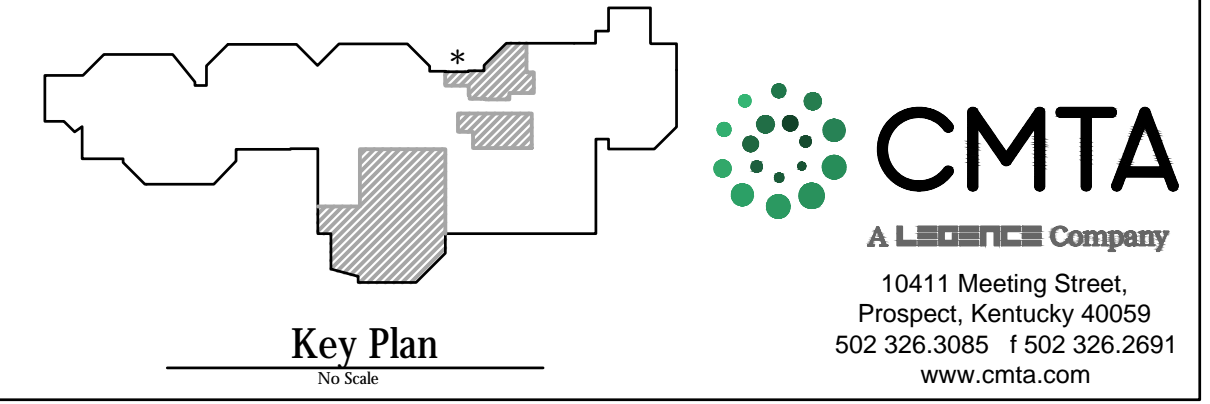
PARTIAL FIRST FLOOR PLAN - ELECTRICAL DEMOLITION - AREA A

SCALE: 1/4" = 1'-0"

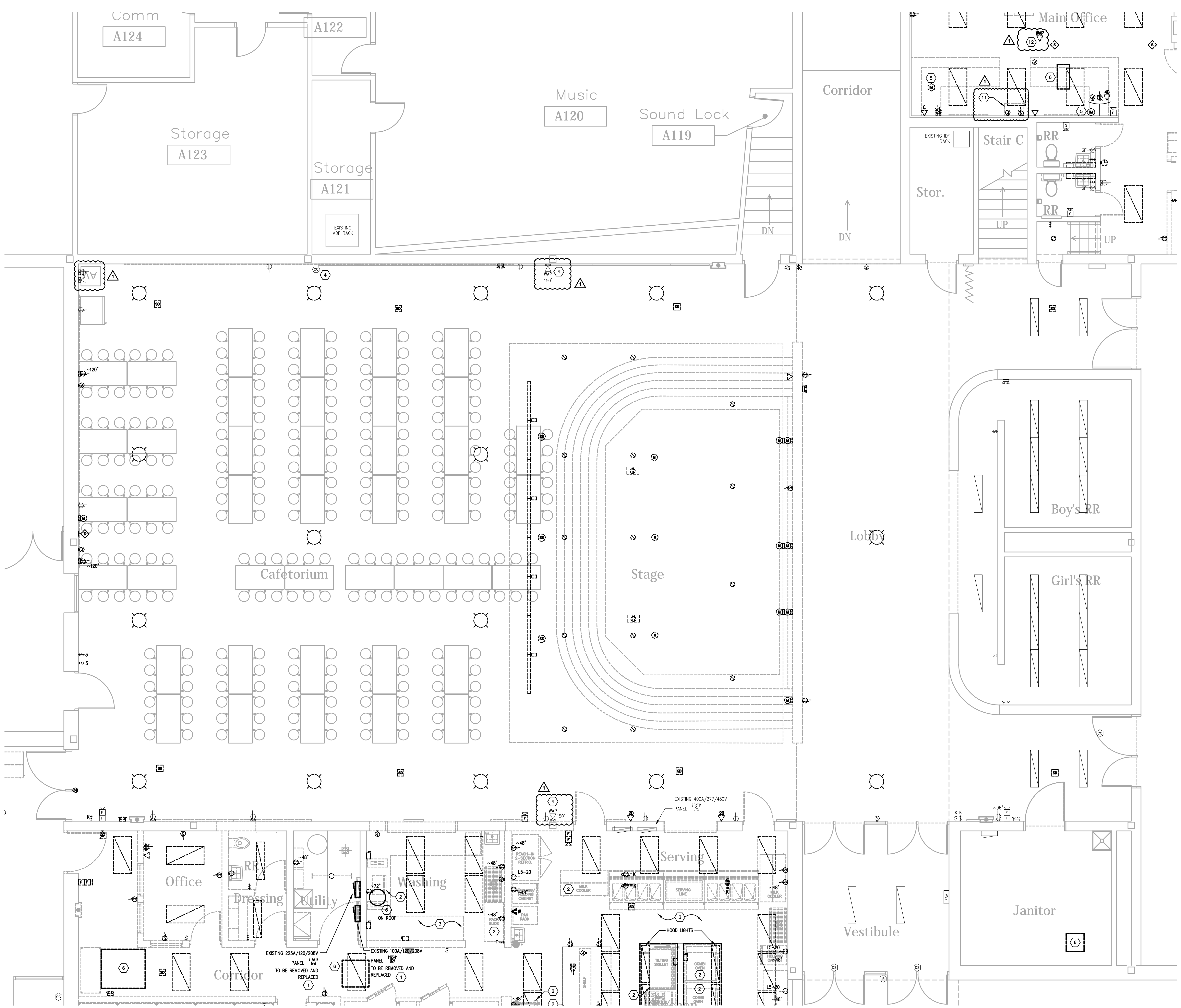
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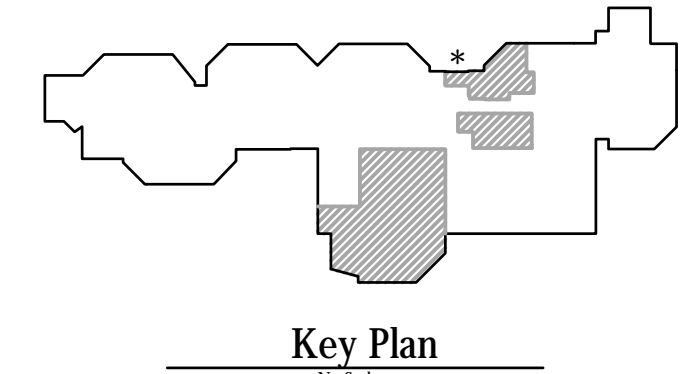
- A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS : THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "TREE" DEMOLITION "WORKING ORDER". "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- C. LOCATIONS OF DEVICES, CONNECTIONS, ETC. INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC AND SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPRIETOR TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPRIETOR.
- D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (U.O.N). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- L. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION. PROVIDE NEW PANEL BOARD LABEL PER DETAIL.
- M. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.
- N. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS UNACCESSIBLE.
- O. LARGE EXISTING RECESSED DEVICES INDICATED AS DEMOLISHED (CLOCKS, EXIT SIGNS, SPEAKERS) SHALL BE PROVIDED WITH A BLANK COVER PLATE PAINTED TO MATCH. WHERE STUB OUT TURNS INTO EXPOSED FINISHED SPACE RACEWAYS SHALL BE SEALED FLUSH WITH WALL.
- P. EXISTING KETS COMPUTER DATA AND POWER BELOW CEILING, SURFACE BACKBOXES AND RACEWAYS ARE TO REMAIN FOR FUTURE USE WHERE POSSIBLE (U.O.N) AND BE REUSED. WHERE UNUSED: IN CONFLICT W/ NEW WORK, CONTRACTOR SHALL REMOVE - PROVIDE SS BLANK COVERPLATE FOR EXISTING BOXES. EXISTING LOW VOLTAGE CABLING SHALL BE COMPLETELY REMOVED IN ALL LOCATIONS.
- Q. CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF DUCTWORK AND PIPING.
- R. EXISTING SPLINE CEILINGS DEMOLISHED IN MANY LOCATIONS. CONTRACTOR SHALL RESUPPORT EXISTING TO REMAIN CONDUITS. CONTRACTOR SHALL SUPPORT UNSUPPORTED CONDUITS ABOVE CEILING PROVIDE ALL BREAK ROOMS FROM STRUCTURE WITH CONDUIT HANGERS/STRAPS PER NEC 2017.
- S. EXISTING CABLING PATHS TO BE REMOVED BACK TO SOURCE AND REPLACED WITH NEW J-HOOK PATHWAYS PER DETAIL. ALL LOW VOLTAGE CABLING SHALL BE SUPPORTED.
- T. PROVIDE NEW MOUNTING BRACKETS FOR ALL REINSTALLED TVS.
- U. ALL RECEPTACLES SHOWN AS EXISTING TO REMAIN SHALL BE REPLACED IN PLACE WITH NEW TAMPER RESISTANT DEVICE. EXISTING WIRING SHALL BE REUSED UNLESS NOTED OTHERWISE.

TAGGED NOTES :

- 1. EXISTING PANEL INDICATED SHALL BE REMOVED AND REPLACED. CONTRACTOR SHALL REMOVE EXISTING REMAINING BRANCH CIRCUITS TO NEW PANEL AND PROVIDE NEW BRANCHES TO MATCH EXISTING. REFER TO PANEL REPLACEMENT/RELOCATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- 2. EXISTING KITCHEN EQUIPMENT INDICATED TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN. CONTRACTOR SHALL INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW LOCATION WHERE POSSIBLE. RACEWAYS SHALL BE RE-SUPPORTED AS REQUIRED TO COMPLY WITH NFPA 70.
- 3. EXISTING KITCHEN EQUIPMENT NOT INDICATED WITH A KEYNOTE TO BE REMOVED, PROTECTED DURING CONSTRUCTION AND RETURNED TO OWNER.
- 4. REMOVE AND REINSTALL EXISTING ELECTRICAL DEVICE INDICATED. FIELD VERIFY EXACT CONDITIONS.
- 5. EXISTING ELECTRICAL DEVICE INDICATED SHALL BE REMOVED AND RELOCATED. SEE NEW POWER/SYSTEMS PLANS FOR NEW LOCATION.
- 6. ALL EXISTING MECHANICAL EQUIPMENT AND ALL ASSOCIATED DEVICES, CONDUIT, FEEDERS, DISCONNECTING MEANS, ETC. TO BE REMOVED. COMPLETELY BACK TO SOURCE AS INDICATED. COORDINATE EXACT REQUIREMENTS, LOCATIONS, ETC. WITH MECHANICAL CONTRACTOR.
- 7. EXISTING LIGHT FIXTURE TO BE REMOVED AND REINSTALLED IN EXISTING CEILING REFER TO NEW LIGHTING PLAN FOR NEW LOCATION.
- 8. COMPRESSORS EXISTING COOLER AND FREEZER TO BE REMOVED AND REPLACED ONTO NEW ROOF. REFER TO POWER/SYSTEMS PLANS FOR NEW LOCATIONS.
- 9. EXISTING INTERCOM SYSTEM SHALL REMAIN AT LOCATION INDICATED AS PART OF INTERCOM SYSTEM ALTERNATE. IN THE BASE BID, THE CONTRACTOR SHALL REMOVE EXISTING DEVICES AND PROVIDE CABLING PATHS PER DETAILS AND SPECIFICATIONS TO INTERCOM DEVICE LOCATIONS FOR DEVICE, CABLING AND EQUIPMENT INSTALLATION BY THE OWNER THROUGH A SEPARATE CONTRACT. AS PART OF THE ALTERNATE, THE CONTRACTOR SHALL PROVIDE NEW DEVICES AND CABLING TO EXPAND THE EXISTING SYSTEM AS REQUIRED FOR RENOVATED SPACES AS SHOWN ON THE DRAWINGS. ALL NEW DEVICE CABLING SHALL BE ROUTED TO EXISTING RACK WITH ADDITIONAL LENGTH AS REQUIRED FOR FUTURE EXTENSION TO IDF RACK LOCATED IN STORAGE 127. ALTERNATE PRICE SHALL INCLUDE ALL REQUIRED DEVICES, CABLING AND HEAD-END EQUIPMENT EXPANSION REQUIRED TO ACCOMMODATE NEW DEVICES AND ZONES INDICATED ON PLANS. CONTRACTOR SHALL FIELD VERIFY EXACT CONDITIONS PRIOR TO BID TO DETERMINE CONDITION OF EXISTING EQUIPMENT.
- 10. EXISTING CABINET HEATER TO BE REMOVED AND REINSTALLED IN PLACE. PRESERVE EXISTING ELECTRICAL CONNECTIONS AND RELOCATIONS. COORDINATE EXACT REQUIREMENTS, LOCATIONS, ETC. WITH MECHANICAL CONTRACTOR.
- 11. EXISTING INTERCOM SYSTEM HANDESET SHALL BE RELOCATED TO NEW RECEPTION DESK AS INDICATED ON NEW WORK PLANS AS PART OF INTERCOM SYSTEM ALTERNATE.
- 12. WIRELESS ACCESS POINTS INDICATED FOR REMOVAL SHALL BE TURNED OVER TO THE OWNER.

PARTIAL FIRST FLOOR PLAN - ELECTRICAL DEMOLITION - AREA B
 SCALE: 1/4" = 1'-0"
 E200B

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ISSUED FOR	DATE
Public Bidding	04-03-2024
Addendum No. 1	04-12-2024

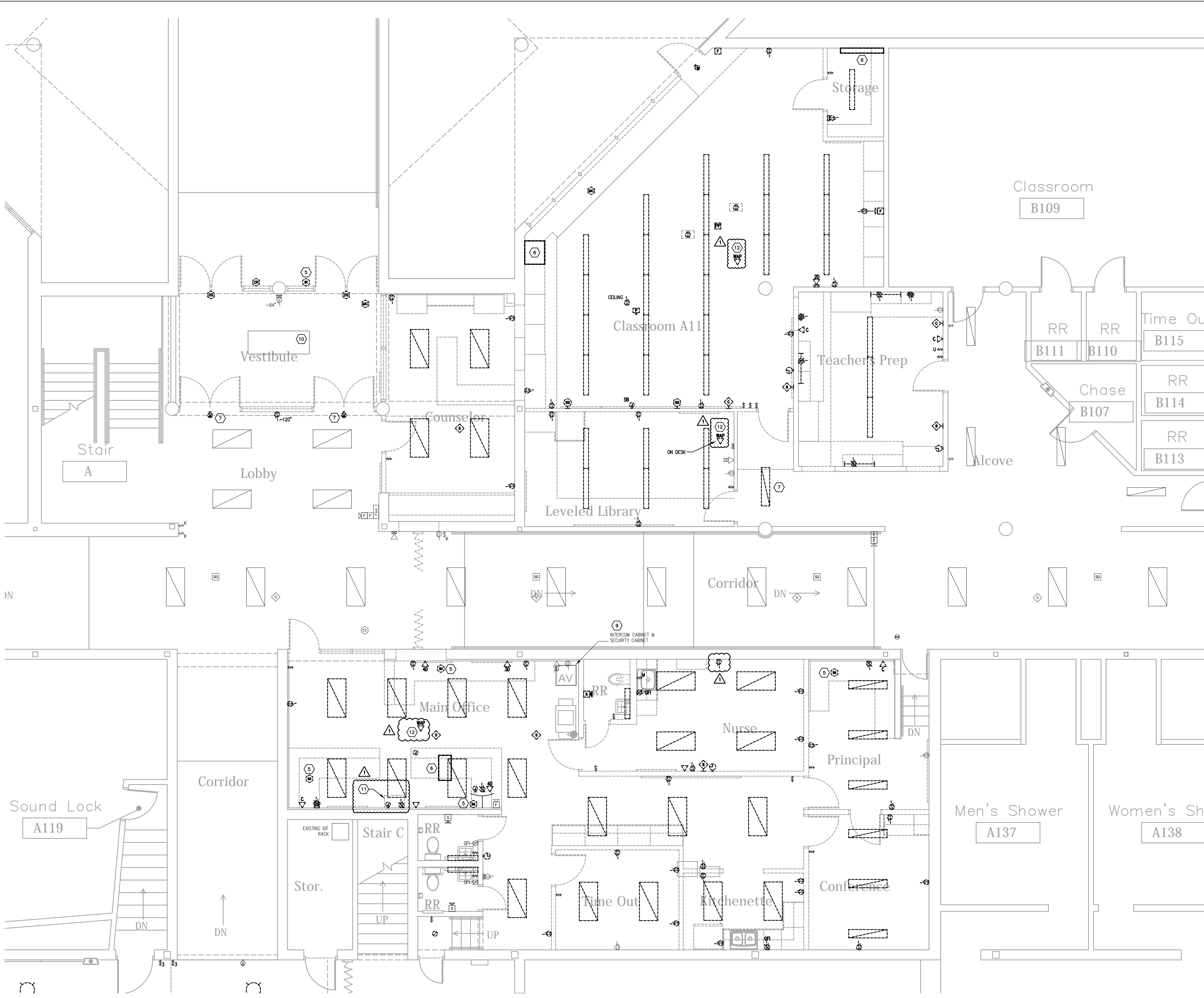
PROJECT TITLE
 NORTH HARRISON
 ELEMENTARY SCHOOL
 2024 ADDITIONS AND
 RENOVATIONS

OWNER
 NORTH HARRISON
 COMMUNITY SCHOOLS
 1115 W WHISKEY RUN RD. NW
 RAMSEY, IN 47166

SHEET TITLE
 PARTIAL FIRST FLOOR PLAN -
 ELECTRICAL DEMOLITION - AREA B

SHEET NUMBER
E200B

DATE
 APRIL 3, 2024



GENERAL DEMOLITION NOTES :

- A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N) AND THIN SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS : THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "TREE" DEMOLITION "WORKING ORDER". "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- C. LOCATIONS OF DEVICES, CONNECTIONS, ETC. INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPRIETOR TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPRIETOR.
- D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (U.O.N). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- I. UNUSED/ABANDONED CONDUITS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.
- K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- L. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION. PROVIDE NEW PANEL BOARD LABEL PER DETAIL.
- M. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.
- N. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS UNACCESSIBLE.
- O. LARGE EXISTING RECESSED DEVICES INDICATED AS DEMOLISHED (CLOCKS, EXIT SIGNS, SPEAKERS) SHALL BE PROVIDED WITH A BLANK COVER PLATE PAINTED TO MATCH. WHERE STUB OUT TURNS INTO EXPOSED FINISHED SPACE RACEWAYS SHALL BE SEALED FLUSH WITH WALL.
- P. EXISTING KEYS, COMPUTER DATA AND POWER BELOW CEILING, SURFACE BACKBOXES AND RACEWAYS ARE TO REMAIN FOR FUTURE USE WHERE POSSIBLE. U.O.N AND BE REUSED. WHERE UNUSED: IN CONFLICT W/ NEW WORK, CONTRACTOR SHALL REMOVE - PROVIDE SS BLANK COVERPLATE FOR EXISTING BOXES. EXISTING LOW VOLTAGE CABLING SHALL BE COMPLETELY REMOVED IN ALL LOCATIONS.
- Q. CONTRACTOR SHALL RE-WORK ANY EXISTING TO REMAIN CONDUITS OR WALL PENETRATIONS WHERE CONFLICTING WITH NEW MAIN DUCTWORK ROUTING. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF DUCTWORK AND PIPING.
- R. EXISTING SPLINE CEILING DEMOLISHED IN MANY LOCATIONS. CONTRACTOR SHALL RESUPPORT EXISTING TO REMAIN CONDUITS. CONTRACTOR SHALL SUPPORT UNSUPPORTED CONDUITS ABOVE CEILING PROVIDED ALL TIEBACK RODS FROM STRUCTURE WITH CONDUIT HANGERS/STRAPS PER NEC 2017.
- S. EXISTING CABLING PATHS TO BE REMOVED BACK TO SOURCE AND REPLACED WITH NEW J-HOOK PATHWAYS PER DETAIL. ALL LOW VOLTAGE CABLING SHALL BE SUPPORTED.
- T. PROVIDE NEW MOUNTING BRACKETS FOR ALL REINSTALLED TVS.
- U. ALL RECEPTACLES SHOWN AS EXISTING TO REMAIN SHALL BE REPLACED IN PLACE WITH NEW TAMPER RESISTANT DEVICE. EXISTING WIRING SHALL BE REUSED UNLESS NOTED OTHERWISE.

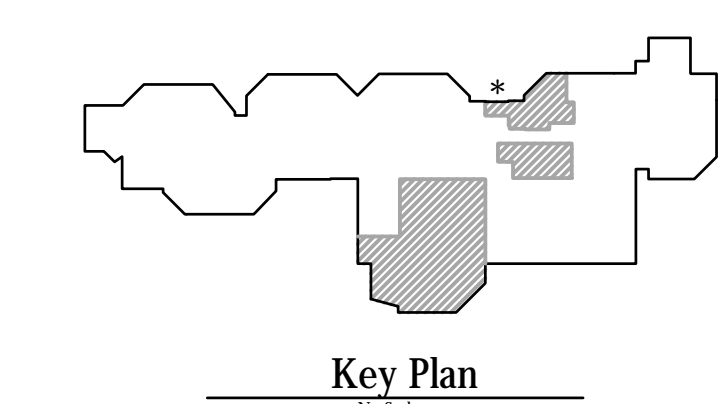
TAGGED NOTES :

- 1. EXISTING PANEL INDICATED SHALL BE REMOVED AND REPLACED. CONTRACTOR SHALL REWORK EXISTING REMAINING BRANCH CIRCUITS TO NEW PANEL AND PROVIDE NEW BRANCH BREAKERS TO MATCH EXISTING. REFER TO PANEL REPLACEMENT/RELOCATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- 2. EXISTING KITCHEN EQUIPMENT INDICATED TO BE SALVAGED AND REINSTALLED IN NEW KITCHEN. CONTRACTOR SHALL INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW LOCATION WHERE POSSIBLE. RACEWAYS SHALL BE RE-SUPPORTED AS REQUIRED TO COMPLY WITH NFPA 70.
- 3. EXISTING KITCHEN EQUIPMENT NOT INDICATED WITH A KEYNOTE TO BE REMOVED, PROTECTED DURING CONSTRUCTION AND RETURNED TO OWNER.
- 4. REMOVE AND REINSTALL EXISTING ELECTRICAL DEVICE INDICATED. FIELD VERIFY EXACT CONDITIONS.
- 5. EXISTING ELECTRICAL DEVICE INDICATED SHALL BE REMOVED AND RELOCATED. SEE NEW POWER/SYSTEMS PLANS FOR NEW LOCATION.
- 6. ALL EXISTING MECHANICAL EQUIPMENT AND ALL ASSOCIATED DEVICES, CONDUIT, FEEDERS, DISCONNECTING MEANS, ETC. TO BE REMOVED. COMPLETELY BACK TO SOURCE AS INDICATED. COORDINATE EXACT REQUIREMENTS, LOCATIONS, ETC. WITH MECHANICAL CONTRACTOR.
- 7. EXISTING LIGHT FIXTURE TO BE REMOVED AND REINSTALLED IN EXISTING CEILING REFER TO NEW LIGHTING PLAN FOR NEW LOCATION.
- 8. COMPRESSORS FOR EXISTING COOLER AND FREEZER TO BE REMOVED AND REPLACED ONTO NEW ROOF. REFER TO POWER/SYSTEMS PLANS FOR NEW LOCATIONS.
- 9. EXISTING INTERCOM SYSTEM SHALL REMAIN AT LOCATION INDICATED AS PART OF INTERCOM SYSTEM ALTERNATE. IN THE BASE BID, THE CONTRACTOR SHALL REMOVE EXISTING DEVICES AND PROVIDE CABLING PATHS PER DETAILS AND SPECIFICATIONS TO INTERCOM DEVICE LOCATIONS FOR DEVICE, CABLING AND EQUIPMENT INSTALLATION BY THE OWNER. THROUGH A SEPARATE CONTRACT, AS PART OF THE ALTERNATE, THE CONTRACTOR SHALL PROVIDE NEW DEVICES AND CABLING TO EXPAND THE EXISTING SYSTEM AS REQUIRED FOR RENOVATED SPACES AS SHOWN ON THE DRAWINGS. ALL NEW DEVICE CABLING SHALL BE ROUTED TO EXISTING RACK WITH ADDITIONAL LENGTH AS REQUIRED FOR FUTURE EXTENSION TO IDF RACK LOCATED IN STORAGE 127. ALTERNATE PRICE SHALL INCLUDE ALL REQUIRED DEVICES, CABLING AND HEAD-END EQUIPMENT EXPANSION REQUIRED TO ACCOMMODATE NEW SPEAKERS AND ZONES INDICATED ON PLANS. CONTRACTOR SHALL FIELD VERIFY EXACT CONDITIONS PRIOR TO BID TO DETERMINE CONDITION OF EXISTING EQUIPMENT.
- 10. EXISTING CABINET HEATER TO BE REMOVED AND REINSTALLED IN PLACE. PRESERVE EXISTING ELECTRICAL CONNECTIONS AND RELOCATE. COORDINATE EXACT REQUIREMENTS, LOCATIONS, ETC. WITH MECHANICAL CONTRACTOR.
- 11. EXISTING INTERCOM SYSTEM HANDESET SHALL BE RELOCATED TO NEW RECEPTION DESK AS INDICATED ON NEW WORK PLANS AS PART OF INTERCOM SYSTEM ALTERNATE.
- 12. WIRELESS ACCESS POINTS INDICATED FOR REMOVAL SHALL BE TURNED OVER TO THE OWNER.

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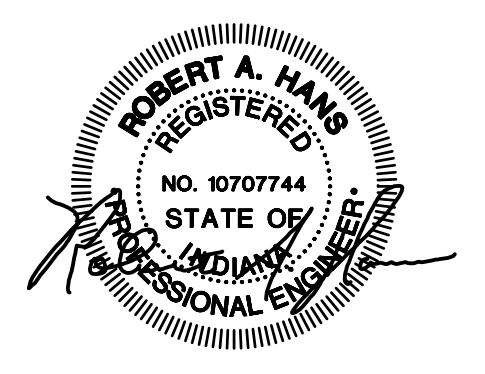
PARTIAL FIRST FLOOR PLAN - ELECTRICAL DEMOLITION - AREA C
 SCALE: 1/4" = 1'-0"

1
 E200C



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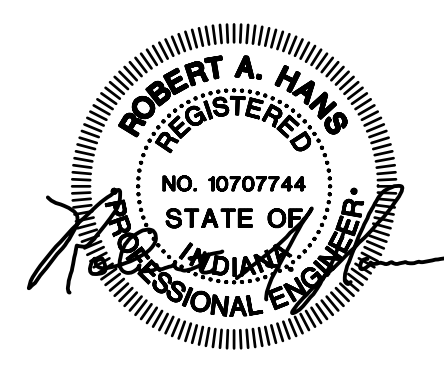


ISSUED FOR: Public Bidding Addendum No. 1
 DATE: 04-03-2024
 04-12-2024

PROJECT TITLE
**NORTH HARRISON
 ELEMENTARY SCHOOL**
 2024 ADDITIONS AND
 RENOVATIONS

OWNER
**NORTH HARRISON
 COMMUNITY SCHOOLS**
 1115 W WHISKEY RUN RD. NW
 RAMSEY, IN 47166

SHEET TITLE
**PARTIAL FIRST FLOOR PLAN -
 ELECTRICAL DEMOLITION - AREA C**
 SHEET NUMBER
E200C
 DATE
APRIL 3, 2024



ISSUED FOR DATE
Public Bidding 04-03-2024
Addendum No. 1 04-12-2024

PROJECT TITLE
NORTH HARRISON
ELEMENTARY SCHOOL
2024 ADDITIONS AND
RENOVATIONS

OWNER
NORTH HARRISON
COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

SHEET TITLE
PARTIAL FIRST FLOOR PLAN -
LIGHTING - AREA A

SHEET NUMBER
E300A

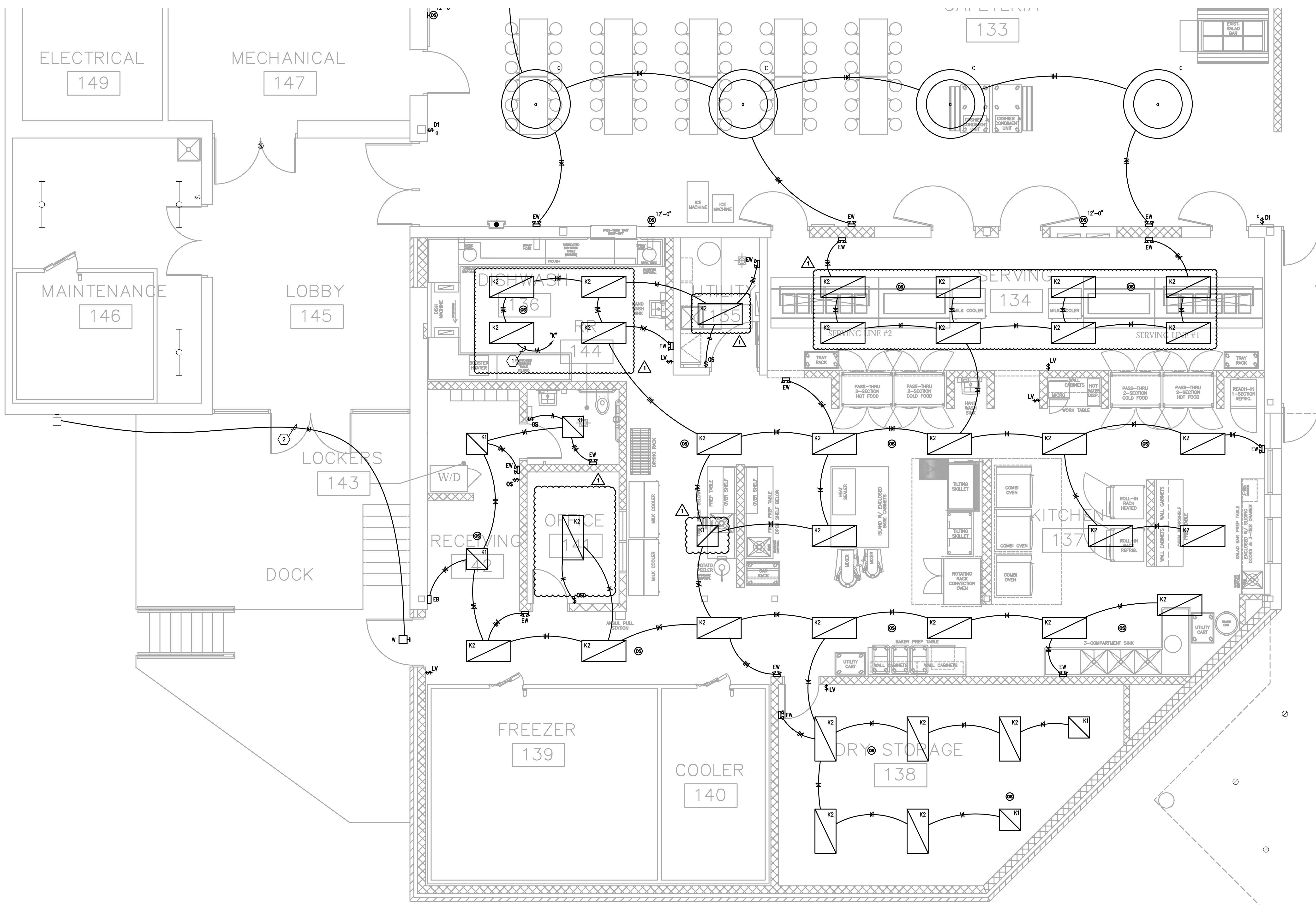
DATE
APRIL 3, 2024

GENERAL NEW WORK NOTES (LIGHTING):

- THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PUSH-OUT" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.
- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES ETC. REFER ALSO TO THE ARCHITECT'S CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES. ETC. NOTIFY THE ENGINEER OF DISCREPANCY BETWEEN BOTH FOR RULING.
- ALL NEW WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.O.N.). CONDUIT SHALL BE 3/4" MINIMUM.
- CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(2), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIPLE BRANCH CIRCUITS AS DEFINED IN N.E.C. #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED. THE CONTRACTOR SHALL USE THE EXISTING CORRIDOR LIGHT FIXTURES FOR TEMPORARY LIGHTING WHERE POSSIBLE.
- IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. ALSO, MARK INSIDES OF ALL JUNCTION BOX COVERS WITH PANEL AND CIRCUIT NUMBER.
- CUT AND PATCH EXISTING WALL ABOVE/BELOW PANELS AS REQUIRED FOR INSTALLATION OF NEW CIRCUIT HOMERUNS. FIELD EXACT REQUIREMENTS. PATCH WALLS TO MATCH EXISTING.
- CONTRACTOR SHALL ATTEMPT TO "FISH" ALL NEW CABLING/ CIRCUITS AS INDICATED WITHIN CONDUIT INSIDE EXISTING WALLS. IF DETERMINED TO NOT BE POSSIBLE (E.G. SLUSH FILLED CONCRETE BLOCK EXISTING WALLS), CONTRACTOR SHALL THEN ROUTE SURFACE MOUNTED WIRING (OR APPROVED EQUAL) PAINTED TO MATCH ADJACENT SURFACES WHERE IT IS NECESSARY FOR NEW CABLING RUNS. SECURELY MOUNT TWO-HOLE STRIPS ON 2"-0" CENTERS IN WALL/CEILING CORNERS AND "OUT OF SITE" AS MUCH AS POSSIBLE. SIZE WIRE/CONDUIT TO SUIT CABLING AS REQUIRED. SEE DETAIL.
- ALL CEILING MOUNTED DEVICES SHALL BE SUPPORTED FROM STRUCTURAL JOISTS ONLY. NO DEVICES SHALL BE SUPPORTED FROM BULK HEADS.
- CONTRACTOR SHALL KEEP RECORDS OF ALL CIRCUIT POLE NUMBERS FOR ALL NEW CIRCUITS TO EXISTING PANELBOARDS AS BUILT DOCUMENTS.
- CONTRACTOR SHALL INDICATE ALL EMERGENCY TRANSFER DEVICE "ET" INSTALLATION LOCATIONS ON AS BUILT SET OF PLANS. REFER TO DETAIL FOR LOCATION AND LABELING REQUIREMENTS.
- IN ROOMS WHERE EXISTING LIGHTING IS BEING REPLACED, EXISTING RECEPTACLE BRANCH CIRCUITS MAY BE UTILIZING SAME RACEWAY AND CIRCUIT. EXISTING BRANCH CIRCUITS SERVING RECEPTACLES SHALL REMAIN AND OLD SWITCHING BE REMOVED. LIGHTING BRANCH CIRCUITS AND RACEWAYS ARE TO BE COMPLETELY INDICATED.
- ALL OCCUPANCY AND VACANCY SENSORS IN ROOM SHALL BE CONNECTED TO WORK AS AN EMERGENCY CONTROLLER FOR ENTIRE ROOM. DETECTION OF OCCUPANCY BY ONE SENSOR SHALL ENABLE ALL LIGHTS IN THE ROOM TO OPERATE (TYPICAL).
- CONTRACTOR SHALL MINIMIZE BEAM CROSSINGS IN CLASSROOMS AT EXPOSED BEAMS. WHERE BEAM IS EXPOSED ROUTE IN SURFACE 3/4" EXIT IN A NEAT, ORDERLY FASHION GROUPED WITH OTHER RACEWAY CROSSINGS. EXIT TO BE PAINTED TO MATCH ADJACENT SURFACES.
- PROVIDE ALL EXIT SIGNS WITH AN UNSWITCHED EMERGENCY HOT CONDUCTOR FOR CONSTANT ILLUMINATION.
- PROVIDE ALL EMERGENCY LIGHTING TRANSFER DEVICES (ET) WITH AN UNSWITCHED NORMAL POWER CONDUCTOR FROM LIGHTING CIRCUIT SERVING THE SAME AREA AS THE EMERGENCY FIXTURES ASSOCIATED WITH THE TRANSFER DEVICE.
- CLASSROOM LIGHTING AND PROJECTOR LOCATIONS TO BE COORDINATED SUCH THAT LIGHTING DOORS DO NOT INTERFERE WITH PROJECTOR LOCATIONS. EC SHALL COORDINATE WITH GC AND CEILING GRID INSTALLER PRIOR TO ROUGH-IN FOR FINAL LAYOUT.
- WHERE #MC IS INDICATED, LIGHTING IS TO BE CONTROLLED BY CONTROLLABLE BREAKER PANEL.
- IN CORRIDORS, STAIRS, LOBBIES, AND OTHER COMMON AREAS, CONTRACTOR SHALL AVOID ROUTING SURFACE MOUNTED RACEWAYS ALONG WALLS. PENETRATE WALL FROM SPACE OPPOSITE OF COMMON AREAS WHERE POSSIBLE. WHERE HORIZONTAL SURFACE MOUNTED RACEWAYS ARE UTILIZED, CONTRACTOR SHALL NOT MOUNT BELOW CEILING PLANE.
- CIRCUITING IS DIAGRAMMATIC. PROVIDE AS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEM.
- WHERE EXISTING RECESSED EXIT SIGNS AND LIGHT FIXTURES ARE REMOVED COMPLETE FROM HARD SURFACES THAT WILL REMAIN EXPOSED, CONTRACTOR SHALL PROVIDE STEEL COVER PLATE CONCEAL ENTIRE EXISTING OPENING. BACKPLATE SHALL BE PRE-FINISHED AND FIELD PAINTED TO MATCH ADJACENT FINISHES WHERE FINISHED AND STAINLESS STEEL WHERE MOUNTED ON EXPOSED CONCRETE.
- MC CABLING MAY BE USED FOR LIGHT FIXTURE CONNECTIONS WITHIN ROOMS. WHERE LOW VOLTAGE DIMMING/CONTROLS ARE REQUIRED TO BE ROUTED TO THE LIGHT FIXTURES, THE CONTRACTOR SHALL USE MC CABLING WITH ADDITIONAL 16/2 THIN CABLING RATED FOR ROOF. THE CONTRACTOR SHALL ROUTE WIRING IN ENT INTO ROOMS TO WITHIN 6" OF FIXTURES. MC CABLING MAY BE USED TO CONNECT BETWEEN FIXTURES THAT ARE A MAXIMUM OF 8' APART ON CENTERS. MC CABLING SHALL BE SUPPORTED FROM STRUCTURE AND SHALL NOT BE SUPPORTED FROM NEW OR EXISTING CEILING ASSEMBLIES. THE CONTRACTOR SHALL PROVIDE UN-SWIRLING SPANNING STRUCTURAL MEMBERS WHERE REQUIRED FOR SUPPORT OF ALL RACEWAYS AND WIRING. THIS NOTE SHALL ONLY APPLY TO LIGHTING CIRCUITS.

TAGGED NOTES :

- ROUTE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/EXIST 200/1P BREAKER IN EXISTING PANEL INDICATED.
- CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUIT. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND AS INDICATED.
- EXISTING LIGHT FIXTURE INDICATED TO BE REMOVED AND REINSTALLED IN EXISTING CEILING. RECONNECT TO EXISTING CIRCUIT SERVING FIXTURE.

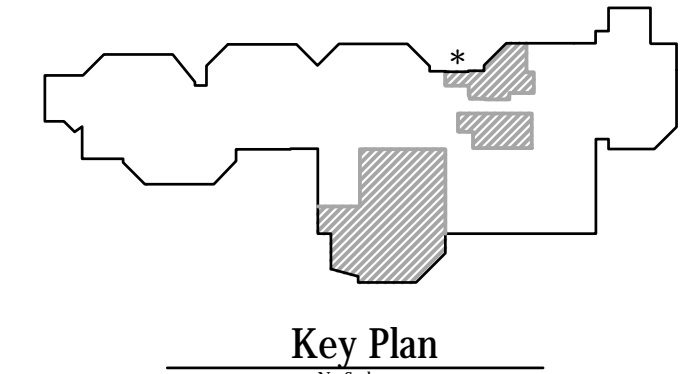


PARTIAL FIRST FLOOR PLAN - LIGHTING - AREA A

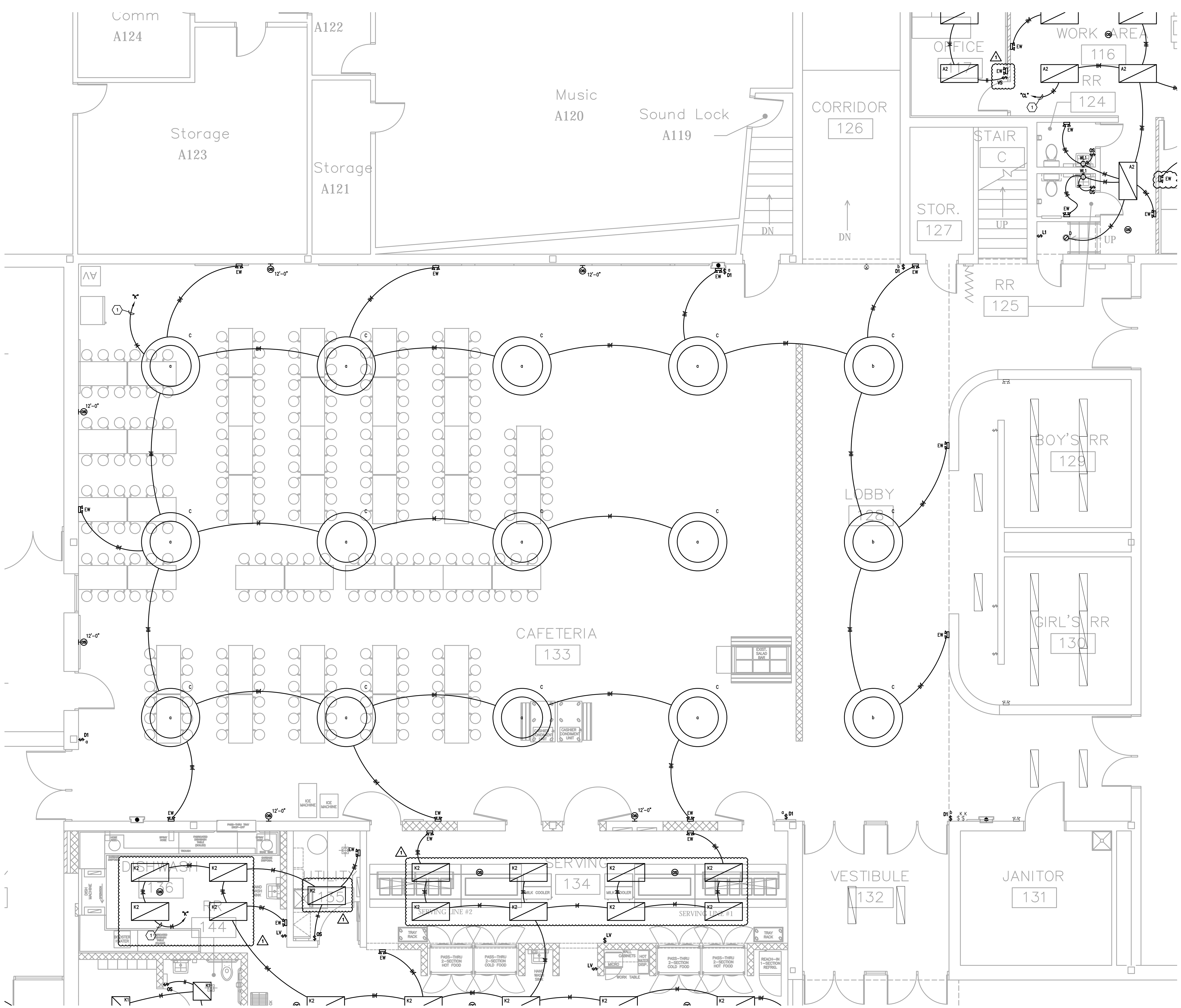
SCALE: 1/4" = 1'-0"

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PARTIAL FIRST FLOOR PLAN - LIGHTING - AREA B
 SCALE: 1/4" = 1'-0"

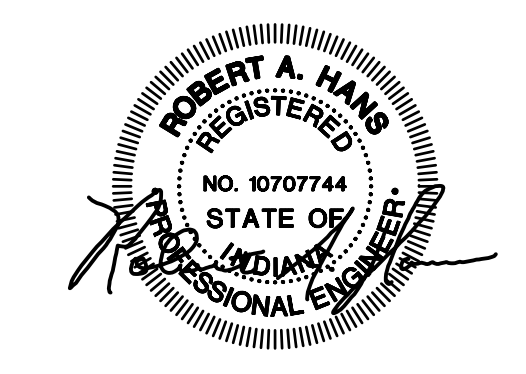
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- B. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES ETC. REFER ALSO TO THE ARCHITECT'S CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES. ETC. NOTIFY THE ENGINEER OF DISCREPANCY BETWEEN BOTH FOR RULING.
- C. ALL NEW WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.O.N.). CONDUIT SHALL BE 3/4" MINIMUM.
- D. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(2), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIPLE BRANCH CIRCUITS AS DEFINED IN N.E.C. #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- E. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED. THE CONTRACTOR SHALL USE THE EXISTING CORRIDOR LIGHT FIXTURES FOR TEMPORARY LIGHTING WHERE POSSIBLE.
- F. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. ALSO, MARK INSIDES OF ALL JUNCTION BOX COVERS WITH PANEL AND CIRCUIT NUMBER.
- G. CUT AND PATCH EXISTING WALL ABOVE/BELOW PANELS AS REQUIRED FOR INSTALLATION OF NEW CIRCUIT HOMERUNS. FIELD TO EXIST EXACT REQUIREMENTS. PAINT WALL TO MATCH EXISTING.
- H. CONTRACTOR SHALL ATTEMPT TO "FISH" ALL NEW CABLING / CIRCUITS AS INDICATED WITHIN CONDUIT INSIDE EXISTING WALLS. IF DETERMINED TO NOT BE POSSIBLE (E.G. SLUSH FILLED CONCRETE BLOCK EXISTING WALLS), CONTRACTOR SHALL THEN ROUTE SURFACE MOUNTED WIRING (OR APPROVED EQUAL) PAINTED TO MATCH ADJACENT SURFACES WHERE IT IS NECESSARY FOR NEW CABLING RUNS. SECURELY MOUNT TWO-HOLE STRIPS ON 2'-0" CENTERS IN WALL/CEILING CORNERS AND "OUT OF SITE" AS MUCH AS POSSIBLE. SIZE WIREMOLD TO SUIT CABLING AS REQUIRED. SEE DETAIL.
- I. ALL CEILING MOUNTED DEVICES SHALL BE SUPPORTED FROM STRUCTURAL JOISTS ONLY. NO DEVICES SHALL BE SUPPORTED FROM BULB TEES.
- J. CONTRACTOR SHALL KEEP RECORD OF ALL CIRCUIT POLE NUMBERS FOR ALL NEW CIRCUITS TO EXISTING PANELBOARDS ON AS BUILT DOCUMENTS.
- K. CONTRACTOR SHALL INDICATE ALL EMERGENCY TRANSFER DEVICE "ET" INSTALLATION LOCATIONS ON AS BUILT SET OF PLANS. REFER TO DETAIL FOR LOCATION AND LABELING REQUIREMENTS.
- L. IN ROOMS WHERE EXISTING LIGHTING IS BEING REPLACED, EXISTING RECEPTACLE BRANCH CIRCUITS MAY BE UTILIZING SAME RACEWAY AND CIRCUIT. EXISTING BRANCH CIRCUITS SERVING RECEPTACLES SHALL REMAIN AND OLD SWITCHING BE REMOVED. LIGHTING BRANCH CIRCUITS AND RACEWAYS TO BE COMPLETELY NEW UNLESS OTHERWISE INDICATED.
- M. ALL OCCUPANCY AND VACANCY SENSORS IN ROOM SHALL BE CONNECTED TO WORK AS ONE CONTROLLER FOR ENTIRE ROOM. DETECTION OF OCCUPANCY BY ONE SENSOR SHALL ENABLE ALL LIGHTS IN THE ROOM TO OPERATE (TYPICAL).
- N. CONTRACTOR SHALL MINIMIZE BEAM CROSSINGS IN CLASSROOMS AT EXPOSED BEAMS. WHERE BEAM IS EXPOSED ROUTE IN SURFACE 3/4" EXIT IN A NEAT, ORDERLY FASHION GROUPOUT WITH OTHER RACEWAY CROSSINGS. EXIT TO BE PAINTED TO MATCH ADJACENT SURFACES.
- O. PROVIDE ALL EXIT SIGNS WITH AN UNSWITCHED EMERGENCY HOT CONDUCTOR FOR CONSTANT ILLUMINATION.
- P. PROVIDE ALL EMERGENCY LIGHTING TRANSFER DEVICES (ET) WITH AN UNSWITCHED NORMAL POWER CONDUCTOR FROM LIGHTING CIRCUIT SERVING THE SAME AREA AS THE EMERGENCY FIXTURES ASSOCIATED WITH THE TRANSFER DEVICE.
- Q. CLASSROOM LIGHTING AND PROJECTOR LOCATIONS TO BE COORDINATED SUCH THAT LIGHTING DOORS DO NOT INTERFERE WITH PROJECTOR LOCATIONS. EC SHALL COORDINATE WITH GC AND CEILING GRID INSTALLER PRIOR TO ROUGH-IN FOR FINAL LAYOUT.
- R. WHERE #MC IS INDICATED, LIGHTING IS TO BE CONTROLLED BY CONTROLLABLE BREAKER PANEL.
- S. IN CORRIDORS, STAIRS, LOBBIES, AND OTHER COMMON AREAS, CONTRACTOR SHALL AVOID ROUTING SURFACE MOUNTED RACEWAYS ALONG WALLS. PENETRATE WALL FROM SPACE OPPOSITE OF COMMON AREAS WHERE POSSIBLE. WHERE HORIZONTAL SURFACE MOUNTED RACEWAYS ARE UTILIZED, CONTRACTOR SHALL NOT MOUNT BELOW CEILING PLANE.
- T. CIRCUITING IS DIAGRAMMATIC. PROVIDE AS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEM.
- U. WHERE EXISTING RECESSED EXIT SIGNS AND LIGHT FIXTURES ARE REMOVED COMPLETE FROM HARD SURFACES THAT WILL REMAIN EXPOSED, CONTRACTOR SHALL PROVIDE STEEL COVER PLATE CONCEAL ENTIRE EXISTING OPENING. BACKPLATE SHALL BE PRE-FINISHED AND FIELD PAINTED TO MATCH ADJACENT FINISHES WHERE FINISHED AND STAINLESS STEEL WHERE MOUNTED ON EXPOSED CONCRETE.
- V. MC CABLING MAY BE USED FOR LIGHT FIXTURE CONNECTIONS WITHIN ROOMS. WHERE LOW VOLTAGE DIMMING/CONTROLS ARE REQUIRED TO THE LIGHT FIXTURES, THE CONTRACTOR SHALL USE MC CABLING WITH ADDITIONAL 16/2 THIN CABLING RATED FOR BODY. THE CONTRACTOR SHALL ROUTE WIRING IN ENT INTO ROOMS TO WITHIN 6" OF FIXTURES. MC CABLING MAY BE USED TO CONNECT BETWEEN FIXTURES THAT ARE A MAXIMUM OF 8' APART ON CENTERS. MC CABLING SHALL BE SUPPORTED FROM STRUCTURE AND SHALL NOT BE SUPPORTED FROM NEW OR EXISTING CEILING ASSEMBLIES. THE CONTRACTOR SHALL PROVIDE UN-STRUT SPANNING STRUCTURAL MEMBERS WHERE REQUIRED FOR SUPPORT OF ALL RACEWAYS AND WIRING. THIS NOTE SHALL ONLY APPLY TO LIGHTING CIRCUITS.

TAGGED NOTES :

1. ROUTE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 200/1P BREAKER IN EXISTING PANEL INDICATED.
2. CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUIT. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND AS INDICATED.
3. EXISTING LIGHT FIXTURE INDICATED TO BE REMOVED AND REINSTALLED IN EXISTING CEILING. RECONNECT TO EXISTING CIRCUIT SERVING FIXTURE.

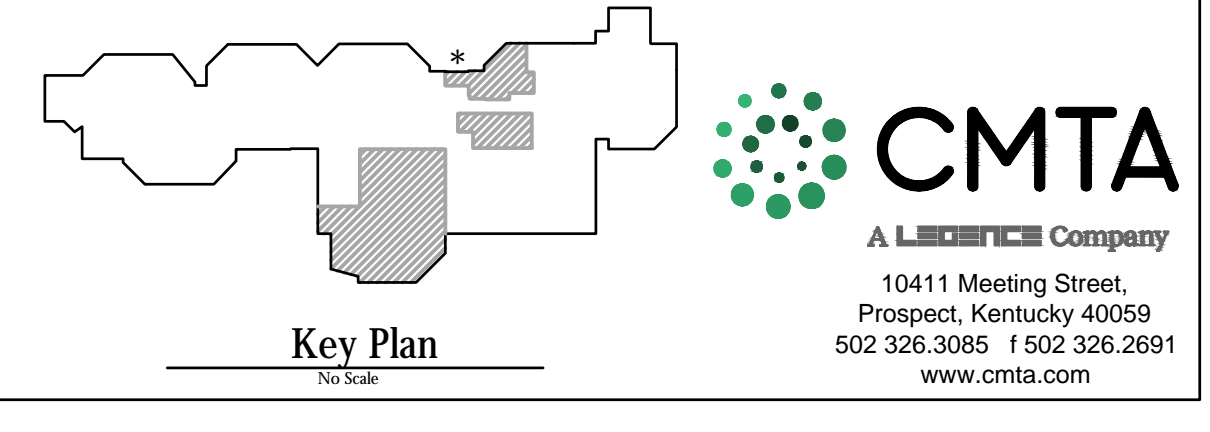


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 Addendum No. 1 04-12-2024

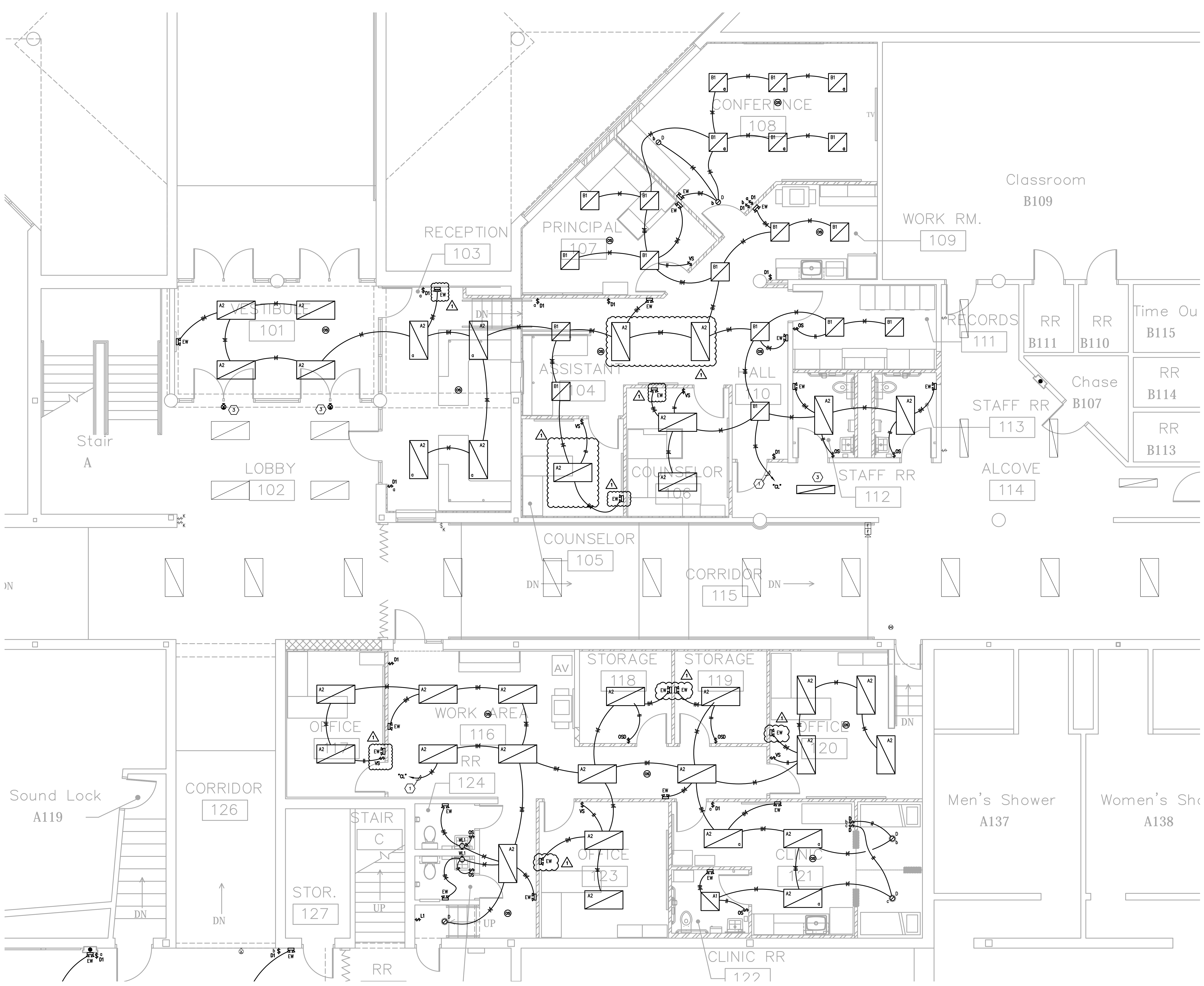
PROJECT TITLE
 NORTH HARRISON
 ELEMENTARY SCHOOL
 2024 ADDITIONS AND
 RENOVATIONS

OWNER
 NORTH HARRISON
 COMMUNITY SCHOOLS
 1115 W WHISKEY RUN RD. NW
 RAMSEY, IN 47166

SHEET TITLE
 PARTIAL FIRST FLOOR PLAN -
 LIGHTING - AREA B
 SHEET NUMBER
E300B
 DATE
 APRIL 3, 2024



CMTA
 A L. B. COMPANY
 10411 Meeting Street,
 Prospect, Kentucky 40059
 502.326.3085 | 502.326.2891
 www.cmta.com



GENERAL NEW WORK NOTES (LIGHTING):

- A. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL INSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PUSH-OUT" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPED DIRECTORIES FOR ALL PANELS AFFECTED.
- B. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES ETC. REFER ALSO TO THE ARCHITECT'S CASEWORK DETAILS AND ROOM ELEVATIONS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES. ETC. NOTIFY THE ENGINEER OF DISCREPANCY BETWEEN BOTH FOR RULING.
- C. ALL NEW WIRING SHALL BE #12 WITH A #12 INSULATED GROUND WIRE (I.O.N.). CONDUIT SHALL BE 3/4" MINIMUM.
- D. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(2), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIPLE BRANCH CIRCUITS AS DEFINED IN N.E.C. #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- E. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED. THE CONTRACTOR SHALL USE THE EXISTING CORRIDOR LIGHT FIXTURES FOR TEMPORARY LIGHTING WHERE POSSIBLE.
- F. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. ALSO, MARK INSIDES OF ALL JUNCTION BOX COVERS WITH PANEL AND CIRCUIT NUMBER.
- G. CUT AND PATCH EXISTING WALL ABOVE/BELOW PANELS AS REQUIRED FOR INSTALLATION OF NEW CIRCUIT HOMERUNS. FIELD EXACT REQUIREMENTS. FIELD EXACT REQUIREMENTS.
- H. CONTRACTOR SHALL ATTEMPT TO "FIT" ALL NEW CABLING/ CIRCUITS AS INDICATED WITHIN CONDUIT INSIDE EXISTING WALLS. IF DETERMINED TO NOT BE POSSIBLE (E.G. SLUSH FILLED CONCRETE BLOCK EXISTING WALLS), CONTRACTOR SHALL THEN ROUTE SURFACE-MOUNTED WIRING (OR APPROVED EQUAL) PAINTED TO MATCH ADJACENT SURFACES WHERE IT IS NECESSARY FOR NEW CABLING RUNS. SECURELY MOUNT TWO-HOLE STRAPS ON 2"-O" CENTERS IN WALL/CEILING CORNERS AND "OUT OF SITE" AS MUCH AS POSSIBLE. SIZE WIRING TO SUIT CABLING AS REQUIRED. SEE DETAIL.
- I. ALL CEILING MOUNTED DEVICES SHALL BE SUPPORTED FROM STRUCTURAL JOISTS ONLY. NO DEVICES SHALL BE SUPPORTED FROM BUILT TEES.
- J. CONTRACTOR SHALL KEEP RECORD OF ALL CIRCUIT POLE NUMBERS FOR ALL NEW CIRCUITS TO EXISTING PANELBOARDS OR AS BUILT DOCUMENTS.
- K. CONTRACTOR SHALL INDICATE ALL EMERGENCY TRANSFER DEVICE "ET" INSTALLATION LOCATIONS ON AS BUILT SET OF PLANS. REFER TO DETAIL FOR LOCATION AND LABELING REQUIREMENTS.
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- M. ALL OCCUPANCY AND VACANCY SENSORS IN ROOM SHALL BE CONNECTED TO WORK AS ONE CONTROLLER FOR ENTIRE ROOM. DETECTION OF OCCUPANCY BY ONE SENSOR SHALL ENABLE ALL LIGHTS IN THE ROOM TO OPERATE (TYPICAL).
- N. CONTRACTOR SHALL MINIMIZE BEAM CROSSINGS IN CLASSROOMS AT EXPOSED BEAMS, WHERE BEAM IS EXPOSED ROUTE IN SURFACE 3/4" EXIT IN A NEAT, ORDERLY FASHION GROUPOUT WITH OTHER RACEWAY CROSSINGS. EXIT TO BE PAINTED TO MATCH ADJACENT SURFACES.
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- Q. CLASSROOM LIGHTING AND PROJECTOR LOCATIONS TO BE COORDINATED SUCH THAT LIGHTING DOORS DO NOT INTERFERE WITH PROJECTOR LOCATIONS. EC SHALL COORDINATE WITH GC AND CEILING GRID INSTALLER PRIOR TO ROUGH-IN FOR FINAL LAYOUT.
- R. WHERE #MC IS INDICATED, LIGHTING IS TO BE CONTROLLED BY CONTROLLABLE BREAKER PANEL.
- S. IN CORRIDORS, STAIRS, LOBBIES, AND OTHER COMMON AREAS, CONTRACTOR SHALL AVOID ROUTING SURFACE MOUNTED RACEWAYS ALONG WALLS. PENETRATE WALL FROM SPACE OPPOSITE OF COMMON AREAS WHERE POSSIBLE. WHERE HORIZONTAL SURFACE MOUNTED RACEWAYS ARE UTILIZED, CONTRACTOR SHALL NOT MOUNT BELOW CEILING PLANE.
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- V. MC CABLING MAY BE USED FOR LIGHT FIXTURE CONNECTIONS WITHIN ROOMS. WHERE LOW VOLTAGE DIMMING/CONTROLS ARE REQUIRED TO BE ROUTED TO THE LIGHT FIXTURES, THE CONTRACTOR SHALL ROUTE WIRING IN EMT INTO ROOMS TO WITHIN 4" OF FIXTURES. MC CABLING MAY BE USED TO CONNECT BETWEEN FIXTURES THAT ARE A MAXIMUM OF 8' APART ON CENTERS. MC CABLING SHALL BE SUPPORTED FROM STRUCTURE AND SHALL NOT BE SUPPORTED FROM NEW OR EXISTING CEILING ASSEMBLIES. THE CONTRACTOR SHALL PROVIDE UN-STRUT SPANNING STRUCTURAL MEMBERS WHERE REQUIRED FOR SUPPORT OF ALL RACEWAYS AND WIRING. THIS NOTE SHALL ONLY APPLY TO LIGHTING CIRCUITS.

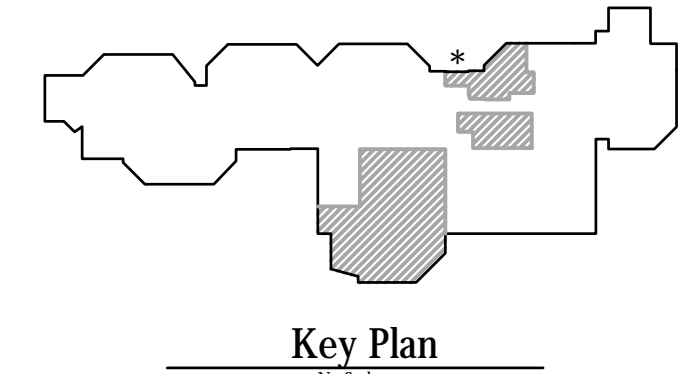
TAGGED NOTES :

1. ROUTE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/EXIST 200/1P BREAKER IN EXISTING PANEL INDICATED.
2. CONNECT NEW LIGHTING FIXTURES TO EXISTING CIRCUIT. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND AS INDICATED.
3. EXISTING LIGHT FIXTURE INDICATED TO BE REMOVED AND REINSTALLED IN EXISTING CEILING. RECONNECT TO EXISTING CIRCUIT SERVING FIXTURE.

Notice
 The Architect/Engineer does not define the scope of individual trades, subcontractors, material suppliers, or vendors. Any drawing numbering system used which identifies disciplines is solely for the Architect/Engineer's convenience, and is not intended to define a subcontractor's scope of work. Information regarding individual trades, subcontractors, material suppliers, and vendors may be detailed, described and indicated at different locations throughout these documents. No consideration will be given to requests for change orders for failure to obtain and review the complete set of drawings and specifications when preparing bids, prices, and quotations.

PARTIAL FIRST FLOOR PLAN - LIGHTING - AREA C
 SCALE: 1/4" = 1'-0"

1
 ES00C



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SHEET TITLE
PARTIAL FIRST FLOOR PLAN - LIGHTING - AREA C

SHEET NUMBER
E300C

OWNER
 NORTH HARRISON
 COMMUNITY SCHOOLS

PROJECT TITLE
 NORTH HARRISON
 ELEMENTARY SCHOOL

2024 ADDITIONS AND
 RENOVATIONS

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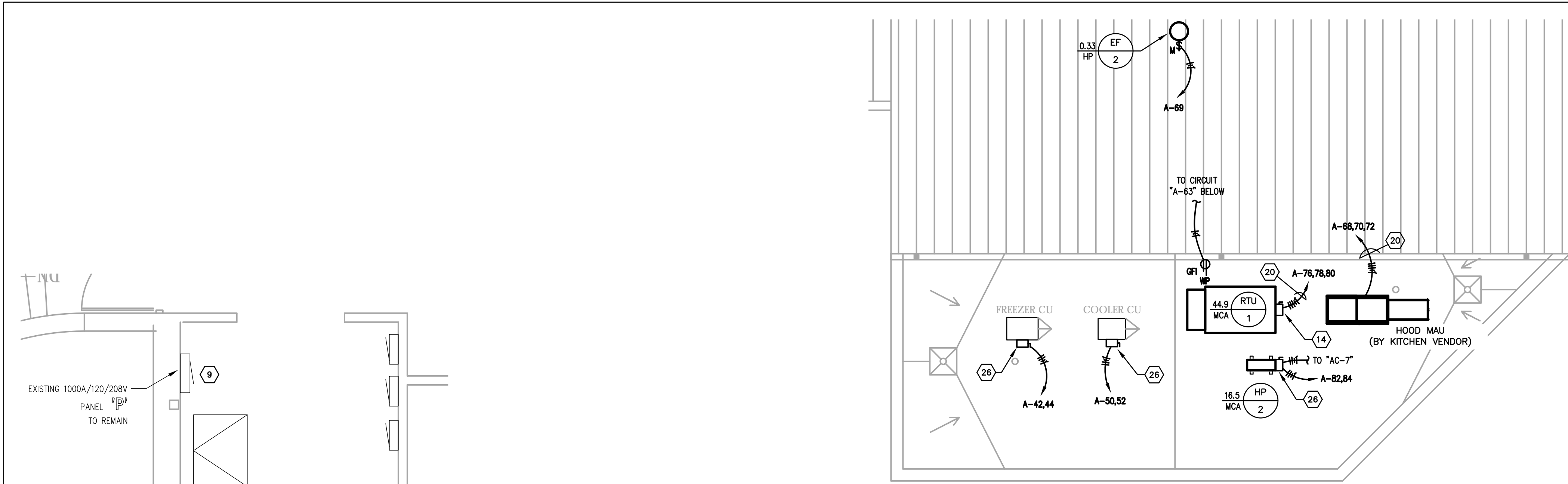
DATE
 APRIL 3, 2024

ISSUED FOR
 Public Bidding
 Addendum No. 1

DATE
 04-03-2024
 04-12-2024



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 Architecture - Engineering - Interiors
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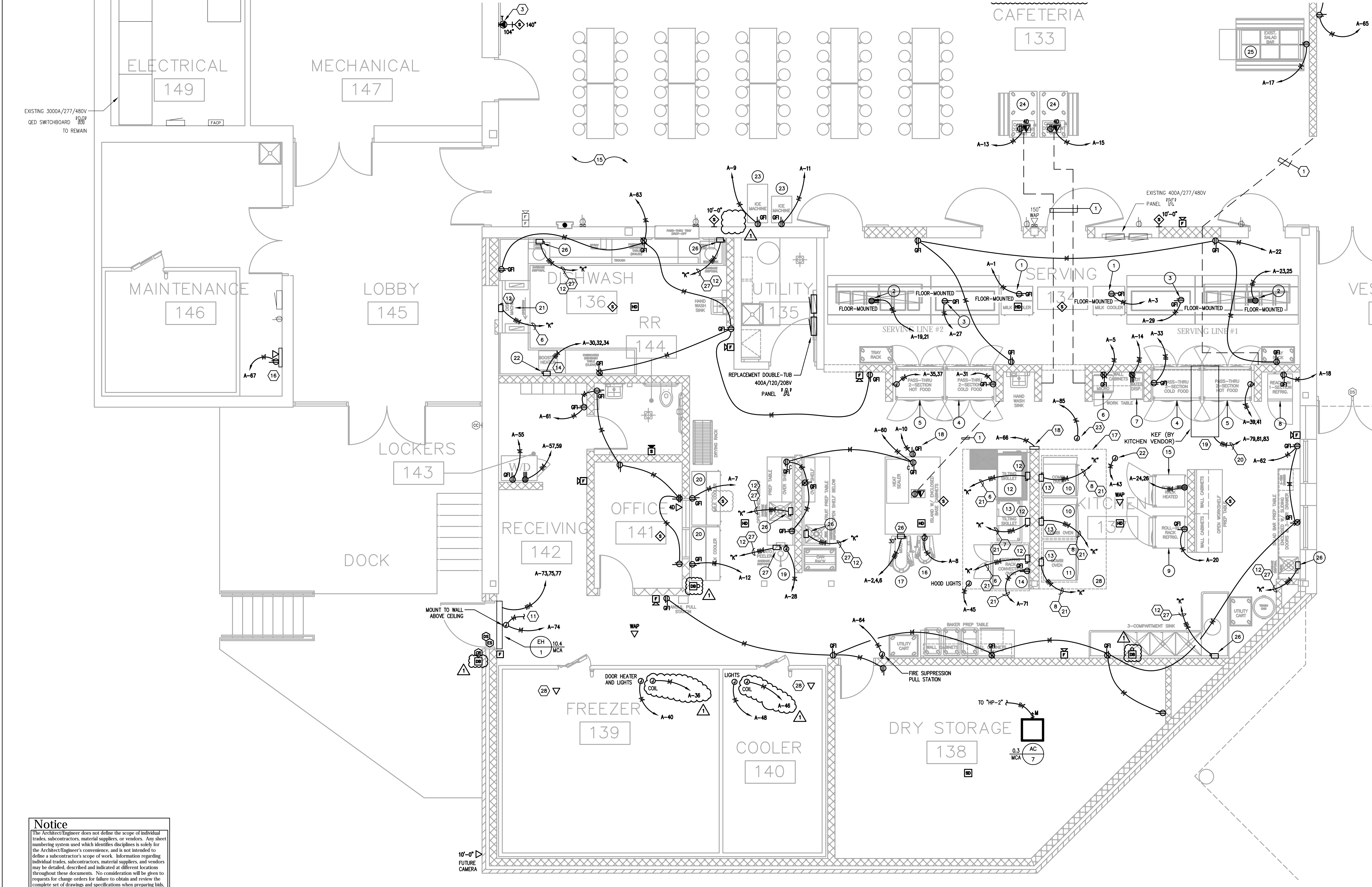


PARTIAL ROOF PLAN - ELECTRICAL

SCALE: 1/8" = 1'-0"

EQUIPMENT SCHEDULE		ELECTRICAL		REMARKS	
ITEM	QTY	DESCRIPTION	HP	KW	AMP VOLT PH
1	2	MILK COOLER (EX)	1/3	2.2	115 1
2	2	SERVING COUNTER, 6-WELL	1/5	6.9	208 1
3	2	SERVING COUNTER, FROST-TOP	1/4	3.7	115 1
4	2	REFRIGERATOR, 2-SEC. PASS	1/2	5.9	120 1
5	2	HOT FOOD HOLDING, 2-SEC		3.0	208 1
6	1	MICROWAVE (EX)		3.8	15.0 120 1
7	1	HOT WATER DISPENSER (EX)		5.0	24.0 208 1
8	1	REFRIGERATOR, 1-SEC. REACH-IN	1/4	2.2	115 1
9	1	REFRIGERATOR, 1-SEC. ROLL-IN	1/3	8.9	115 1
10	2	COMBI OVEN (EX)		37.4	480 3
11	1	COMBI OVEN		37.4	480 3
12	1	TILTING SKILLET (EX)		17.7	15.5 480 3
13	1	TILTING SKILLET		22.0	480 3
14	1	ROTATING RACK OVEN (EX)	3/4	18.0	23.0 480 3
15	1	HOT FOOD HOLDING, 1-SEC. ROLL		9.6	208 1
16	1	MIXER (EX)	1/2	10.2	115 1
17	1	MIXER (EX)	2.0	5.8	200 3
18	1	HEAT SEALER (EX)		7.0	120 1
19	1	POTATO PEELER	1.0	16.6	115 1
20	2	MILK COOLER (EX)	1/3	3.0	120 1
21	1	DISHMACHINE (EX)	2.0	25.0	480 3
22	1	BOOSTER HEATER		47.9	208 3
23	2	ICE MACHINE (EX)			120 1
24	2	CASHER STAND (EX)			120 1
25	1	SALAD BAR UNIT (EX)			120 1
26	3	GARBAGE DISPOSAL & PANEL	2.0	4.4	208 3
27	3	GARBAGE DISPOSAL & PANEL	1.5	2.4	208 3
28	1	EXHAUST HOOD SYSTEM (COOK)			208 3

* COORDINATE EXACT EQUIPMENT LOCATIONS WITH OWNER'S FINAL LAYOUT PRIOR TO ROUGH-IN.
** "EX." IS EXISTING EQUIPMENT TO BE RELOCATED.



PARTIAL FIRST FLOOR PLAN - POWER/SYSTEMS - AREA A

SCALE: 1/4" = 1'-0"

- GENERAL NEW WORK NOTES (POWER/SYSTEMS):**
- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
 - CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DENOTE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
 - IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
 - RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.5(E).
 - LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
 - NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.
 - REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
 - THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT SUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "SUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
 - CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT SUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RANS FOR SYSTEM CABLING INSTALLATION.
 - ALL RECEPTACLES SHOWN AS EXISTING TO REMAIN SHALL BE REPLACED IN PLACE WITH NEW TAMPER RESISTANT DEVICE. EXISTING WIRING SHALL BE REUSED UNLESS NOTED OTHERWISE.

- TAGGED NOTES:**
- CUT AND PATCH FLOOR FOR NEW RACEWAYS TO FLOOR BOXES. ROUTE CONCEALED IN NEW WALL INFILL.
 - PROVIDE 6"x6" BOX FOR TERMINATION OF CAFETERIA T.V. CONDUITS. ROUTE SURFACE CONDUITS IN STORAGE A123 AND STUB THRU WALL INTO CAFETERIA. FIELD VERIFY EXACT ROUTES.
 - PROVIDE ADDITIONAL SINGLE-GANG BOX AND 1-1/4" CONDUIT TO A.V. RACK IN CAFETERIA.
 - CONNECT NEW ELECTRICAL DEVICES IN CIRCUIT TO EXISTING CIRCUIT INDICATED. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND AS INDICATED.
 - PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/1P BREAKER(S) IN EXISTING PANEL INDICATED.
 - PROVIDE # OF #10 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 30A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
 - PROVIDE # OF #8 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 40A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
 - PROVIDE # OF #6 CONDUCTORS AND #10 GROUND IN 1" CONDUIT TO NEW/SPARE 60A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
 - PROVIDE NEW 300A/3P CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANEL INDICATED FOR REPLACEMENT PANEL "A". REMOVE EXISTING SPARE BREAKERS AS REQUIRED TO CREATE SPACE. FIELD VERIFY EXACT CONDITIONS.
 - PROVIDE # OF #8 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 40A/2P BREAKER(S) IN EXISTING PANEL INDICATED.
 - WIRE NEW DOOR POWER SUPPLY INTO BUILDING FIRE ALARM SYSTEM.
 - PROVIDE 30A/600V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
 - PROVIDE 60A/600V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
 - PROVIDE 60A/240V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
 - ALL NEW SURFACE RACEWAY REQUIRED FOR DEVICE INSTALLATION IN THE CAFETERIA SHALL BE ROUTED ON BACKSIDE OF CAFETERIA WALL AND PORED THROUGH FROM BEHIND SERVICE COUNTER TO SURFACE WHEREBY IN THE CAFETERIA, WHERE SURFACE WIREWAY IS INSTALLED IN ANY FINISHED SPACE, WIREWAY SHALL BE USED AND PAINTED TO MATCH ADJACENT SURFACES. FIELD VERIFY EXACT CONDITIONS.
 - PROVIDE POWER AND NETWORK DATA DROP TO HVAC CONTROL PANEL. PROVIDE 120V CONNECTION AND DATA BOXES AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
 - PROVIDE ALL NECESSARY CONNECTIONS FROM EXISTING FIRE ALARM SIGNALING LOOP TO FIRE SUPPRESSION SYSTEM.
 - HOOD CONTROL PANEL. COORDINATE EXACT MOUNTING LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. REFER TO VENDOR DRAWINGS FOR FURTHER REQUIREMENTS.
 - KITCHEN EXHAUST FAN TO BE MOUNTED TO PLATFORM ABOVE CEILING. REFER TO VENDOR DRAWINGS FOR FURTHER REQUIREMENTS.
 - PROVIDE RACEWAY AND WIRING FOR CONTROL CONNECTION FROM HOOD CONTROL PANEL AS REQUIRED BY KITCHEN HOOD INSTALLATION DRAWINGS.
 - ROUTE CIRCUIT INDICATED THROUGH KITCHEN HOOD CONTROL CONTRACTOR FOR EMERGENCY SHUTDOWN. REFER TO KITCHEN HOOD CONTROL SCHEMATIC FOR ADDITIONAL REQUIREMENTS.
 - CONTRACTOR FOR HOOD EQUIPMENT EMERGENCY SHUTDOWN. MOUNT ABOVE CEILING AT ACCESSIBLE LOCATION. REFER TO KITCHEN HOOD CONTROL SCHEMATIC FOR ADDITIONAL REQUIREMENTS.
 - PROVIDE ROUGH-IN CONDUIT AND WIRING FOR HOOD FIRE SUPPRESSION ACTIVATION STATION. COORDINATE EXACT REQUIREMENTS WITH KITCHEN VENDOR SHOP DRAWINGS.
 - PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/2P BREAKER IN EXISTING PANEL INDICATED.
 - EXISTING INTERCOM SYSTEM SHALL REMAIN AT LOCATED INDICATED AS PART OF BASE BID. CONTRACTOR SHALL REMOVE EXISTING DEVICES AND CABLING WHERE INDICATED ON PLANS AND REPLACE WITH NEW AS PART OF BASE BID. CONTRACTOR SHALL PROVIDE NEW CABLING BACK TO EXISTING INTERCOM RACK WITH LENGTH TO BE EXTENDED TO NEW RACK LOCATED IN STORAGE 127 AS PART OF FUTURE INTERCOM UPGRADE. ALTERNATE PRICE SHALL REMOVE ALL NEW INTERCOM SCOPE FOR A BUILDING-WIDE INTERCOM UPGRADE THAT WOULD BE PART OF A SEPARATE CONTRACT. ALL DEMOLITION SCOPE WOULD REMAIN IN THIS CONTRACT.
 - PROVIDE 30A/240V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
 - PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/3P BREAKER IN EXISTING PANEL INDICATED.
 - PROVIDE NETWORK DROP TO WALK-IN EQUIPMENT FOR TEMPERATURE MONITORING. COORDINATE EXACT LOCATION WITH VENDOR.
 - EXISTING INTERCOM SYSTEM HANDSET RELOCATED TO NEW RECEPTION DESK AS INDICATED AS PART OF INTERCOM SYSTEM ALTERNATE. PROVIDE CONNECTIONS THROUGH DESK AS REQUIRED.

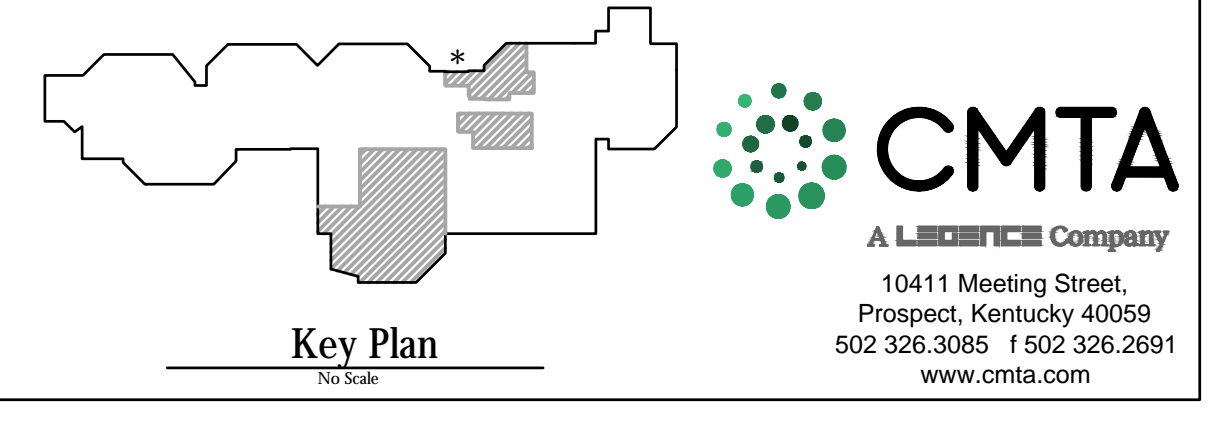


ISSUED FOR: Public Bidding Addendum No. 1
DATE: 04-03-2024
04-12-2024

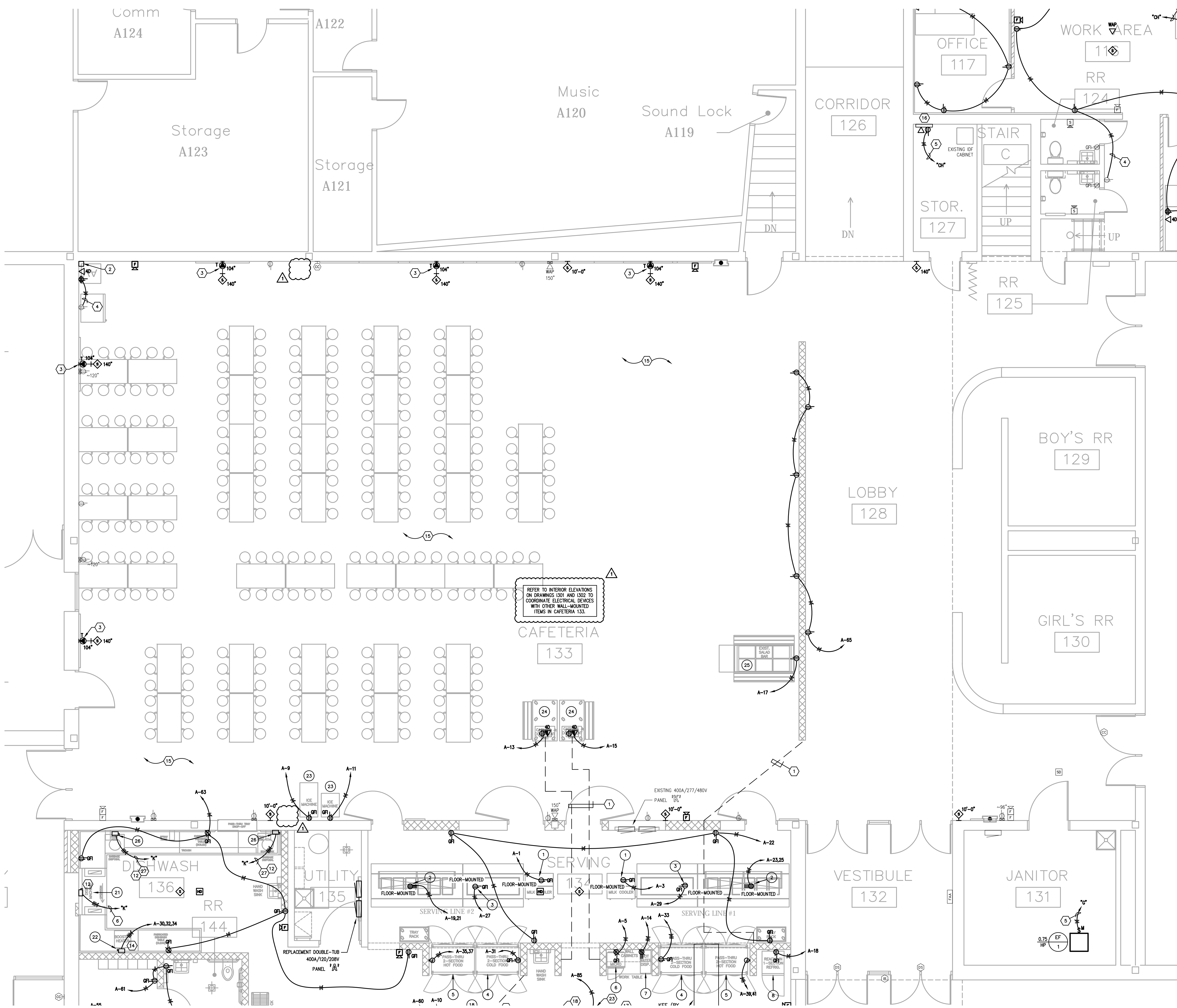
PROJECT TITLE: NORTH HARRISON ELEMENTARY SCHOOL
2024 ADDITIONS AND RENOVATIONS
OWNER: NORTH HARRISON COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW RAMSEY, IN 47166

SHEET TITLE: PARTIAL FIRST FLOOR PLAN - POWER/SYSTEMS - AREA A
SHEET NUMBER: E400A
DATE: APRIL 3, 2024

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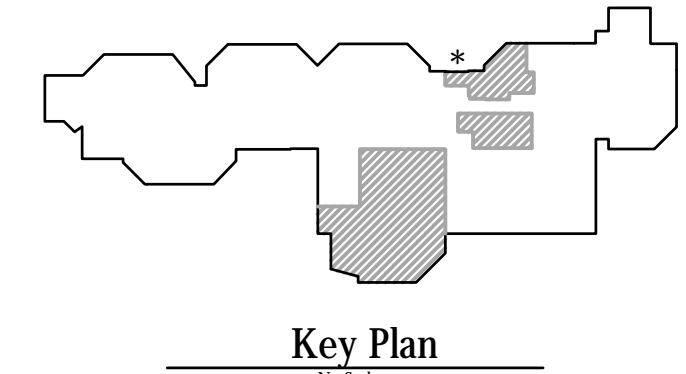


- GENERAL NEW WORK NOTES (POWER/SYSTEMS) :**
- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
 - CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(7) AND USES CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
 - IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
 - RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
 - LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
 - NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.
 - REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
 - THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT SUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "SUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
 - CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT SUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.
 - ALL RECEPTACLES SHOWN AS EXISTING TO REMAIN SHALL BE REPLACED IN PLACE WITH NEW TAMPER RESISTANT DEVICE. EXISTING WIRING SHALL BE REUSED UNLESS NOTED OTHERWISE.
- TAGGED NOTES :**
- CUT AND PATCH FLOOR FOR NEW RACEWAYS TO FLOOR BOXES. ROUTE CONCEALED IN NEW WALL INFILL.
 - PROVIDE 6"x6" BOX FOR TERMINATION OF CAFETERIA T.V. CONDUITS. ROUTE SURFACE CONDUITS IN STORAGE A123 AND STUB THRU WALL INTO CAFETERIA. FIELD VERIFY EXACT ROUTES.
 - PROVIDE ADDITIONAL SINGLE-GANG BOX AND 1-1/4" CONDUIT TO A.V. RACK IN CAFETERIA.
 - CONNECT NEW ELECTRICAL DEVICES IN CIRCUIT TO EXISTING CIRCUIT INDICATED. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND AS INDICATED.
 - PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
 - PROVIDE # OF #10 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 30A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
 - PROVIDE # OF #8 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 40A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
 - PROVIDE # OF #6 CONDUCTORS AND #10 GROUND IN 1" CONDUIT TO NEW/SPARE 60A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
 - PROVIDE NEW 300A/3P CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANEL INDICATED FOR REPLACEMENT PANEL "A". REMOVE EXISTING SPARE BREAKERS AS REQUIRED TO CREATE SPACE. FIELD VERIFY EXACT CONDITIONS.
 - PROVIDE # OF #8 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 40A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
 - WIRE NEW DOOR POWER SUPPLY INTO BUILDING FIRE ALARM SYSTEM.
 - PROVIDE 30A/600V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
 - PROVIDE 60A/600V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
 - PROVIDE 60A/240V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
 - ALL NEW SURFACE RACEWAY REQUIRED FOR DEVICE INSTALLATION IN THE CAFETERIA SHALL BE ROUTED ON BACKSIDE OF CAFETERIA WALL AND POKED THROUGH FROM BEHIND WHERE POSSIBLE. PROVIDE SURFACE WIREWAY IN THE CAFETERIA WHERE SURFACE WIREWAY IS INSTALLED IN ANY FINISHED SPACE. WIREWAY SHALL BE USED AND PAINTED TO MATCH ADJACENT SURFACES. FIELD VERIFY EXACT CONDITIONS.
 - PROVIDE POWER AND NETWORK DATA DROP TO HVAC CONTROL PANEL. PROVIDE 120V CONNECTION AND DATA BOXES AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
 - PROVIDE ALL NECESSARY CONNECTIONS FROM EXISTING FIRE ALARM SIGNALING LOOP TO FIRE SUPPRESSION SYSTEM.
 - HOOD CONTROL PANEL. COORDINATE EXACT MOUNTING LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. REFER TO VENDOR DRAWINGS FOR FURTHER REQUIREMENTS.
 - KITCHEN EXHAUST FAN TO BE MOUNTED TO PLATFORM ABOVE CEILING. REFER TO VENDOR DRAWINGS FOR FURTHER REQUIREMENTS.
 - PROVIDE RACEWAY AND WIRING FOR CONTROL CONNECTION FROM HOOD CONTROL PANEL AS REQUIRED BY KITCHEN HOOD INSTALLATION DRAWINGS.
 - ROUTE CIRCUIT INDICATED THROUGH KITCHEN HOOD CONTROL CONTACTOR FOR EMERGENCY SHUTDOWN. REFER TO KITCHEN HOOD CONTROL SCHEMATIC FOR ADDITIONAL REQUIREMENTS.
 - PROVIDE CONTACTOR FOR HOOD EQUIPMENT EMERGENCY SHUTDOWN. MOUNT ABOVE CEILING AT ACCESSIBLE LOCATION. REFER TO KITCHEN HOOD CONTROL SCHEMATIC FOR ADDITIONAL REQUIREMENTS.
 - PROVIDE ROUGH-IN CONDUIT, AND WIRING FOR HOOD FIRE SUPPRESSION ACTIVATION STATION. COORDINATE EXACT REQUIREMENTS WITH KITCHEN VENDOR SHOP DRAWINGS.
 - PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/3P BREAKER IN EXISTING PANEL INDICATED.
 - EXISTING INTERCOM SYSTEM SHALL REMAIN AT LOCATED INDICATED AS PART OF BASE BID. CONTRACTOR SHALL REMOVE EXISTING DEVICES AND CABLING WHERE INDICATED ON PLANS AND REPLACE WITH NEW AS PART OF BASE BID. CONTRACTOR SHALL PROVIDE NEW CABLING BACK TO EXISTING INTERCOM RACK WITH LENGTH TO BE EXTENDED TO THE RACK LOCATED IN STORAGE 127 AS PART OF FUTURE INTERCOM UPGRADE. ALTERNATE PRICE SHALL REMOVE ALL NEW INTERCOM SCOPE FOR A BUILDING-WIDE INTERCOM UPGRADE THAT WOULD BE PART OF A SEPARATE CONTRACT. ALL DEMOLITION SCOPE WOULD REMAIN IN THIS CONTRACT.
 - PROVIDE 30A/240V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
 - PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/3P BREAKER IN EXISTING PANEL INDICATED.
 - PROVIDE NETWORK DROP TO WALK-IN EQUIPMENT FOR TEMPERATURE MONITORING. COORDINATE EXACT LOCATION WITH VENDOR.
 - EXISTING INTERCOM SYSTEM HANDSET RELOCATED TO NEW RECEPTION DESK AS INDICATED AS PART OF INTERCOM SYSTEM ALTERNATE. PROVIDE CONNECTIONS THROUGH DESK AS REQUIRED.

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PARTIAL FIRST FLOOR PLAN - POWER/SYSTEMS - AREA B
 SCALE: 1/4" = 1'-0"

1
E400B



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ROBERT A. HANKS
 REGISTERED PROFESSIONAL ENGINEER
 NO. 1070744
 STATE OF KENTUCKY

ISSUED FOR	DATE
Public Bidding	04-03-2024
Addendum No. 1	04-12-2024

PROJECT TITLE
**NORTH HARRISON
 ELEMENTARY SCHOOL**

OWNER
**NORTH HARRISON
 COMMUNITY SCHOOLS**

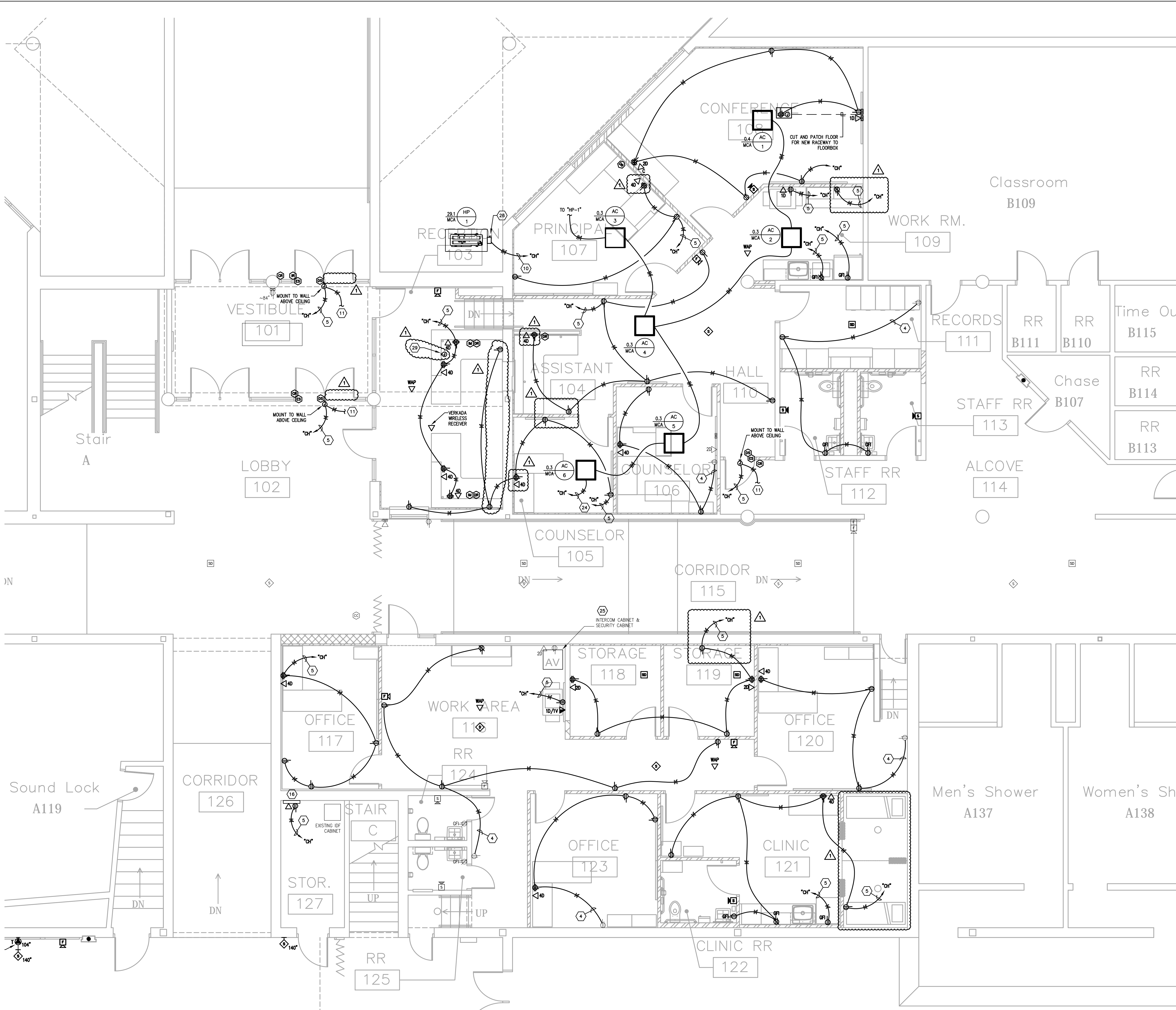
1115 W WHISKEY RUN RD. NW
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2024 ADDITIONS AND
 RENOVATIONS

SHEET TITLE
**PARTIAL FIRST FLOOR PLAN -
 POWER/SYSTEMS - AREA B**

SHEET NUMBER
E400B

DATE
 APRIL 3, 2024



GENERAL NEW WORK NOTES (POWER/SYSTEMS) :

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS OCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- F. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.
- G. REFER TO "SYSTEM INSTALLATION MATRIX" (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
- H. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT SUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "SUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- I. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT SUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL STRINGS IN ALL NEW CONDUIT RUNS FOR SYSTEM CABLING INSTALLATION.
- J. ALL RECEPTACLES SHOWN AS EXISTING TO REMAIN SHALL BE REPLACED IN PLACE WITH NEW TAMPER RESISTANT DEVICE. EXISTING WIRING SHALL BE REUSED UNLESS NOTED OTHERWISE.

TAGGED NOTES :

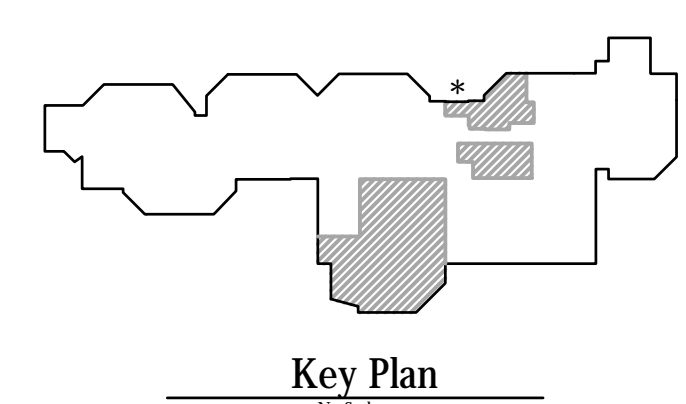
1. CUT AND PATCH FLOOR FOR NEW RACEWAYS TO FLOOR BOXES. ROUTE CONCEALED IN NEW WALL INFILL.
2. PROVIDE 4"x4" BOX FOR TERMINATION OF CAFETERIA T.V. CONDUITS. ROUTE SURFACE CONDUITS IN STORAGE A123 AND STUB THRU WALL INTO CAFETERIA. FIELD VERIFY EXACT ROUTES.
3. PROVIDE ADDITIONAL SINGLE-GANG BOX AND 1-1/4" CONDUIT TO A.V. RACK IN CAFETERIA.
4. CONNECT NEW ELECTRICAL DEVICES IN CIRCUIT TO EXISTING CIRCUIT INDICATED. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND AS INDICATED.
5. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/1P BREAKER(S) IN EXISTING PANEL INDICATED.
6. PROVIDE # OF #10 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 30A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
7. PROVIDE # OF #8 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 40A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
8. PROVIDE # OF #6 CONDUCTORS AND #10 GROUND IN 1" CONDUIT TO NEW/SPARE 60A/3P BREAKER(S) IN EXISTING PANEL INDICATED.
9. PROVIDE NEW 300A/3P CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANEL INDICATED FOR REPLACEMENT PANEL "A". REMOVE EXISTING SPARE BREAKERS AS REQUIRED TO CREATE SPACE. FIELD VERIFY EXACT CONDITIONS.
10. PROVIDE # OF #8 CONDUCTORS AND #10 GROUND IN 3/4" CONDUIT TO NEW/SPARE 40A/2P BREAKER(S) IN EXISTING PANEL INDICATED.
11. WIRE NEW DOOR POWER SUPPLY INTO BUILDING FIRE ALARM SYSTEM.
12. PROVIDE 30A/600V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
13. PROVIDE 60A/600V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
14. PROVIDE 60A/240V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
15. ALL NEW SURFACE RACEWAY REQUIRED FOR DEVICE INSTALLATION IN THE CAFETERIA SHALL BE ROUTED ON BACKSIDE OF CAFETERIA WALL AND POKED THROUGH FROM BEHIND WHERE POSSIBLE TO AVOID SURFACE WIRING IN THE CAFETERIA. WHERE SURFACE WIRING IS INSTALLED IN ANY FINISHED SPACE, WIRING SHALL BE USED AND PAINTED TO MATCH ADJACENT SURFACES. FIELD VERIFY EXACT CONDITIONS.
16. PROVIDE POWER AND NETWORK DATA DROP TO HVAC CONTROL PANEL. PROVIDE 120V CONNECTION AND DATA BOXES AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
17. PROVIDE ALL NECESSARY CONNECTIONS FROM EXISTING FIRE ALARM SIGNALING LOOP TO FIRE SUPPRESSION SYSTEM.
18. HOOD CONTROL PANEL. COORDINATE EXACT MOUNTING LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. REFER TO VENDOR DRAWINGS FOR FURTHER REQUIREMENTS.
19. KITCHEN EXHAUST FAN TO BE MOUNTED TO PLATFORM ABOVE CEILING. REFER TO VENDOR DRAWINGS FOR FURTHER REQUIREMENTS.
20. PROVIDE RACEWAY AND WIRING FOR CONTROL CONNECTION FROM HOOD CONTROL PANEL AS REQUIRED BY KITCHEN HOOD INSTALLATION DRAWINGS.
21. ROUTE CIRCUIT INDICATED THROUGH KITCHEN HOOD CONTROL CONTACTOR FOR EMERGENCY SHUTDOWN. REFER TO KITCHEN HOOD CONTROL SCHEMATIC FOR ADDITIONAL REQUIREMENTS.
22. PROVIDE CONTACTOR FOR HOOD EQUIPMENT EMERGENCY SHUTDOWN. MOUNT ABOVE CEILING AT ACCESSIBLE LOCATION. REFER TO KITCHEN HOOD CONTROL SCHEMATIC FOR ADDITIONAL REQUIREMENTS.
23. PROVIDE ROUGH-IN CONDUIT, AND WIRING FOR HOOD FIRE SUPPRESSION ACTIVATION STATION. COORDINATE EXACT REQUIREMENTS WITH KITCHEN VENDOR SHOP DRAWINGS.
24. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/2P BREAKER IN EXISTING PANEL INDICATED.
25. EXISTING INTERCOM SYSTEM SHALL REMAIN AT LOCATED INDICATED AS PART OF BASE BID. CONTRACTOR SHALL REMOVE EXISTING DEVICES AND CABLING WHERE INDICATED ON PLANS AND REPLACE WITH NEW AS PART OF BASE BID. CONTRACTOR SHALL PROVIDE NEW CABLING BACK TO EXISTING INTERCOM RACK WITH LENGTH TO BE EXTENDED TO RACK LOCATED IN STORAGE 127 AS PART OF FUTURE INTERCOM UPGRADE. ALTERNATE PRICE SHALL REMOVE ALL NEW INTERCOM SCOPE FOR A BUILDING-WIDE INTERCOM UPGRADE THAT WOULD BE PART OF A SEPARATE CONTRACT. ALL DEMOLITION SCOPE WOULD REMAIN IN THIS CONTRACT.
26. PROVIDE 30A/240V/3P FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE. COORDINATE EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN.
27. PROVIDE # OF #12 CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT TO NEW/SPARE 20A/3P BREAKER IN EXISTING PANEL INDICATED.
28. PROVIDE NETWORK DROP TO WALK-IN EQUIPMENT FOR TEMPERATURE MONITORING. COORDINATE EXACT LOCATION WITH VENDOR.
29. EXISTING INTERCOM SYSTEM HANDSET RELOCATED TO NEW RECEPTION DESK AS INDICATED AS PART OF INTERCOM SYSTEM ALTERNATE. PROVIDE CONNECTIONS THROUGH DESK AS REQUIRED.

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PARTIAL FIRST FLOOR PLAN - POWER/SYSTEMS - AREA C

SCALE: 1/4" = 1'-0"

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E400C



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SHEET TITLE
PARTIAL FIRST FLOOR PLAN - POWER/SYSTEMS - AREA C

SHEET NUMBER
E400C

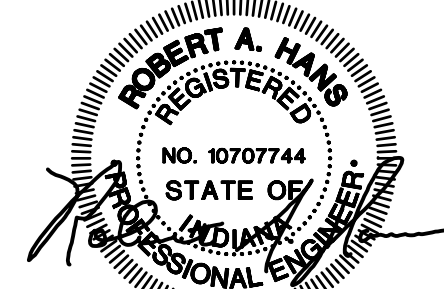
OWNER
NORTH HARRISON COMMUNITY SCHOOLS

PROJECT TITLE
NORTH HARRISON ELEMENTARY SCHOOL

ISSUED FOR
 Public Bidding Addendum No. 1

DATE
 04-03-2024
 04-12-2024

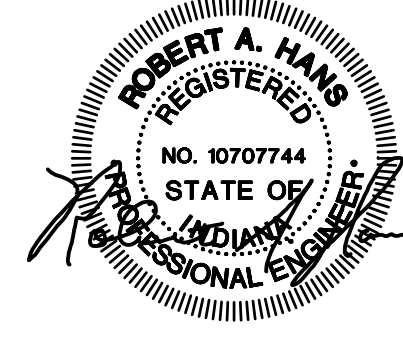
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DATE
 APRIL 3, 2024

2024 ADDITIONS AND RENOVATIONS

1115 W WHISKEY RUN RD. NW
 RAMSEY, IN 47166

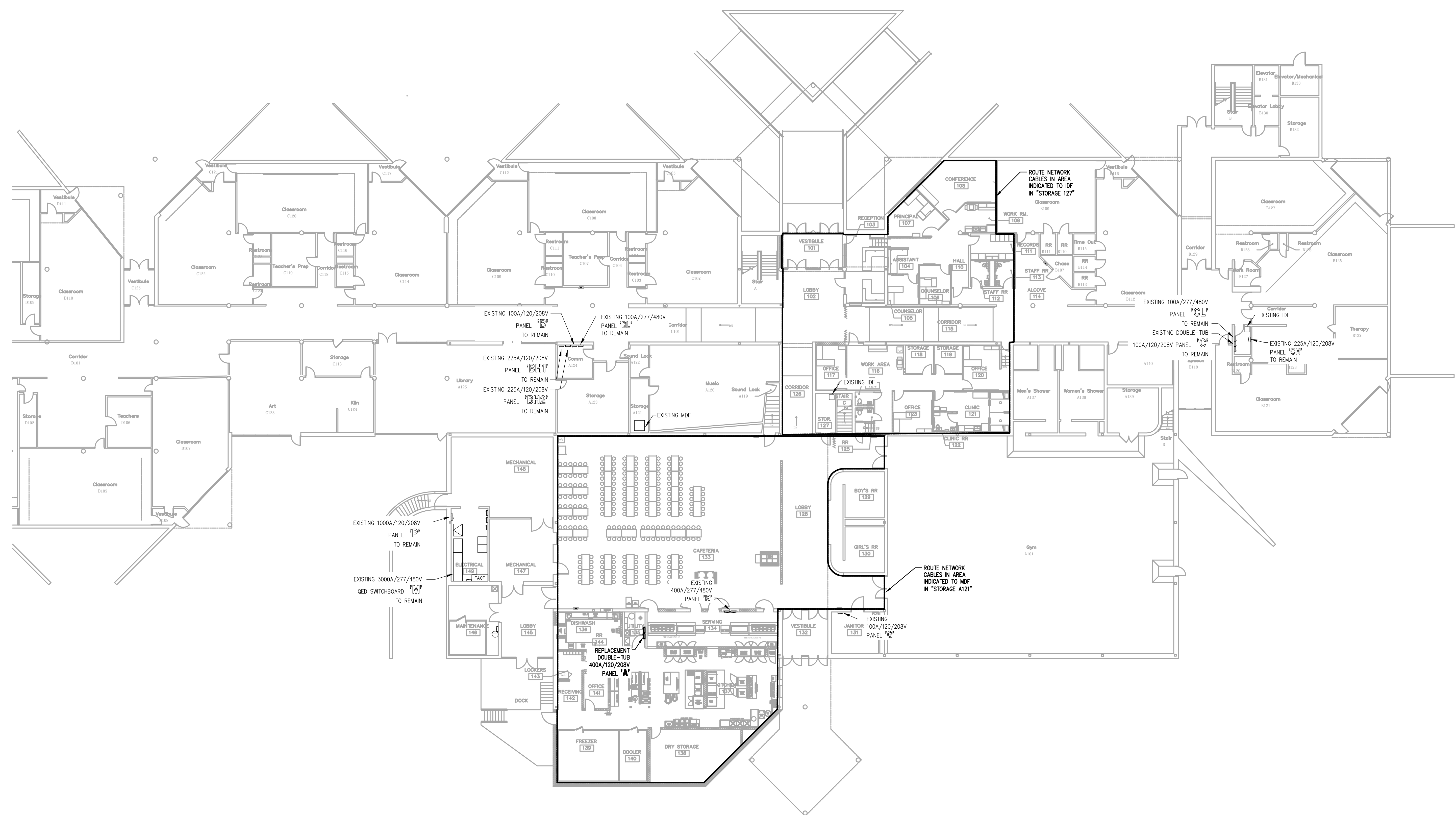


- GENERAL INTERCONNECTION NOTES :**
- THE CONTRACTOR SHALL VISIT SITE AND VERIFY THAT HE IS ABLE TO INSTALL PULL BOXES AS REQUIRED AND CONDUITS AS INDICATED. IF THERE IS A CONFLICT, CONTRACTOR SHALL NOTIFY ENGINEER 10 DAYS PRIOR TO BID. NO PRICE CHANGE WILL BE GIVEN FOR ANY ALTERNATE ROUTINGS OF CONDUIT AFTER THE CONTRACT HAS BEEN AWARDED. NOTIFY FACILITY ENGINEER AT LEAST 24 HOURS IN ADVANCE OF ANY VISIT.
 - ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES (WHETHER EXISTING OR NEW).
 - COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.
 - REMOVE AND RE-INSTALL ALL CEILING TILES, HARD CEILINGS AND GRID MEMBERS NECESSARY TO PERFORM WORK REQUIRED. TO ENSURE NEW REPLACEMENT CEILING TILES MATCH EXISTING TILES, ETC. IN AREA, THE CONTRACTOR SHALL REMOVE TILES FROM DESIGNATED ROOM(S) AND USE THESE TO REPLACE DAMAGED CEILING TILES. ALL NEW CEILING TILES SHALL BE INSTALLED IN "DESIGNATED" ROOM(S) AT CLOSE OF PROJECT. COORDINATE "DESIGNATED" ROOM(S) WITH FACILITY ENGINEER. REPLACE TILES WITH NEW IF ACCEPTABLE OWNER.

TAGGED NOTES :

- NOT USED.

ISSUED FOR	DATE
Public Bidding Addendum No. 1	04-03-2024
	04-12-2024

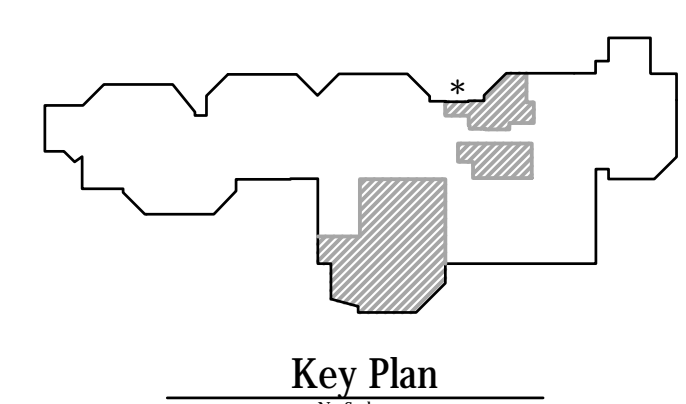


PARTIAL FIRST FLOOR PLAN - ELECTRICAL INTERCONNECTIONS

SCALE: 1/16" = 1'-0"

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E50

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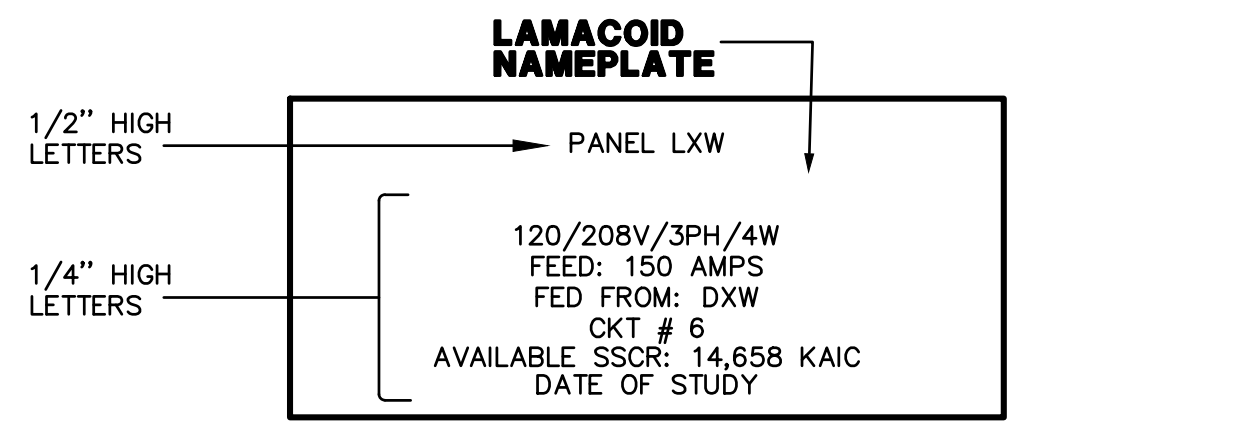
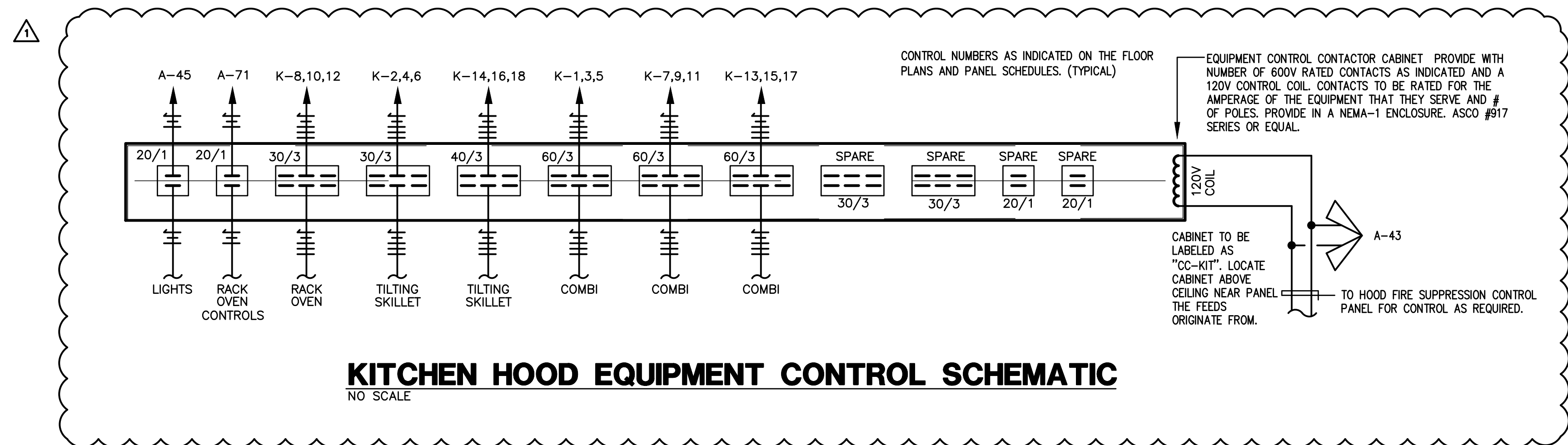
PROJECT TITLE
NORTH HARRISON
ELEMENTARY SCHOOL
2024 ADDITIONS AND
RENOVATIONS

OWNER
NORTH HARRISON
COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

SHEET TITLE
ELECTRICAL INTERCONNECTIONS PLAN

DATE
APRIL 3, 2024

SHEET NUMBER
E500



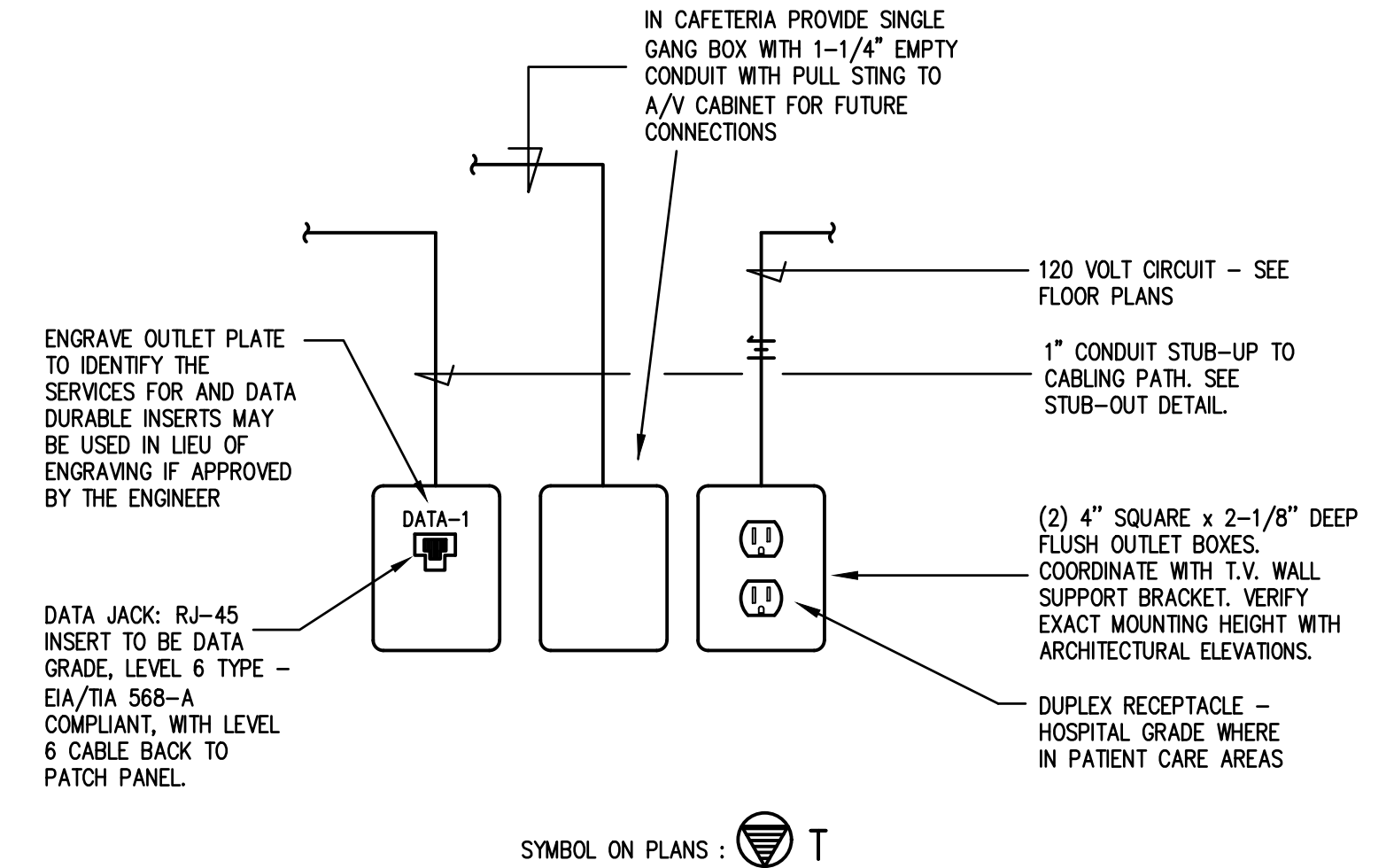
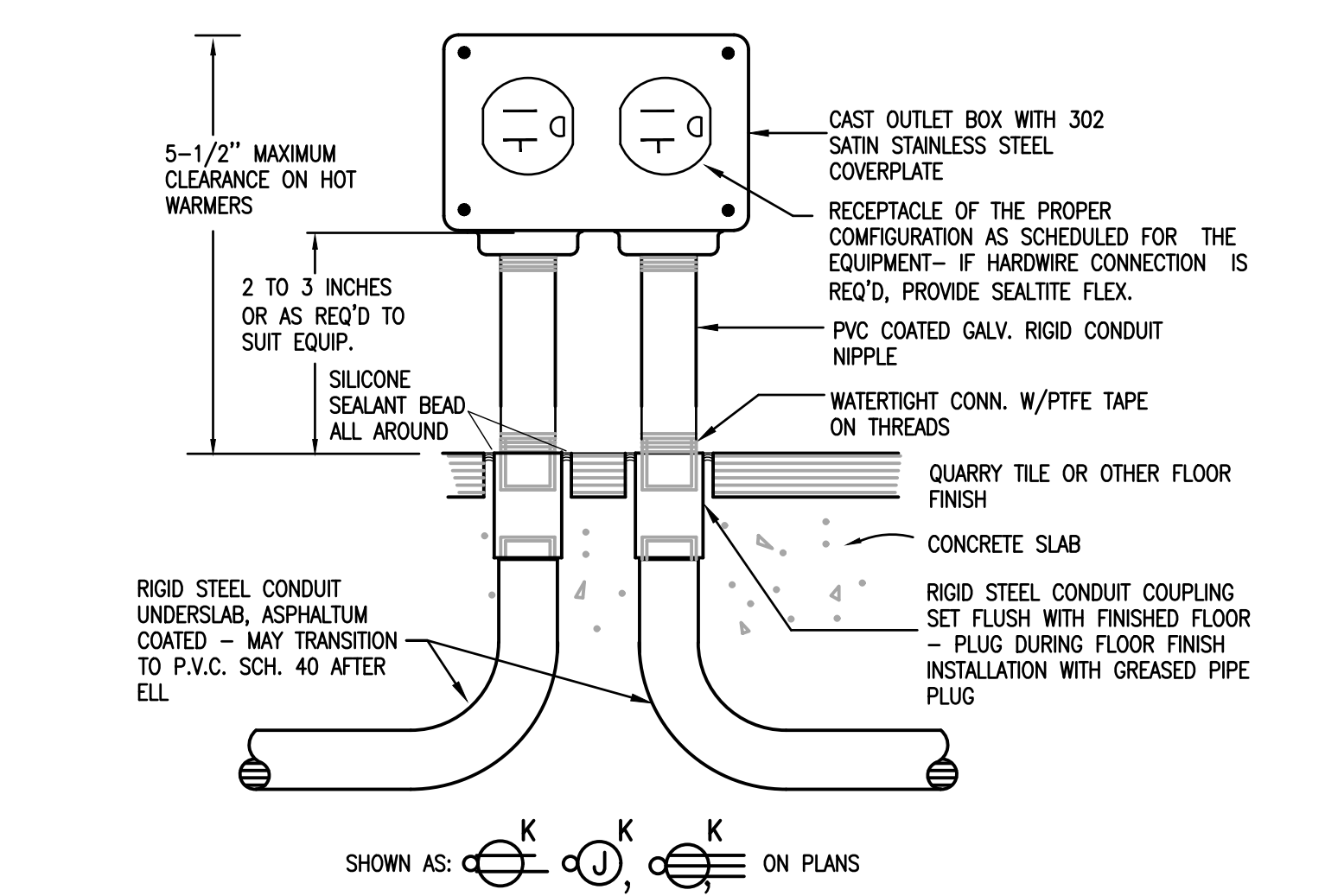
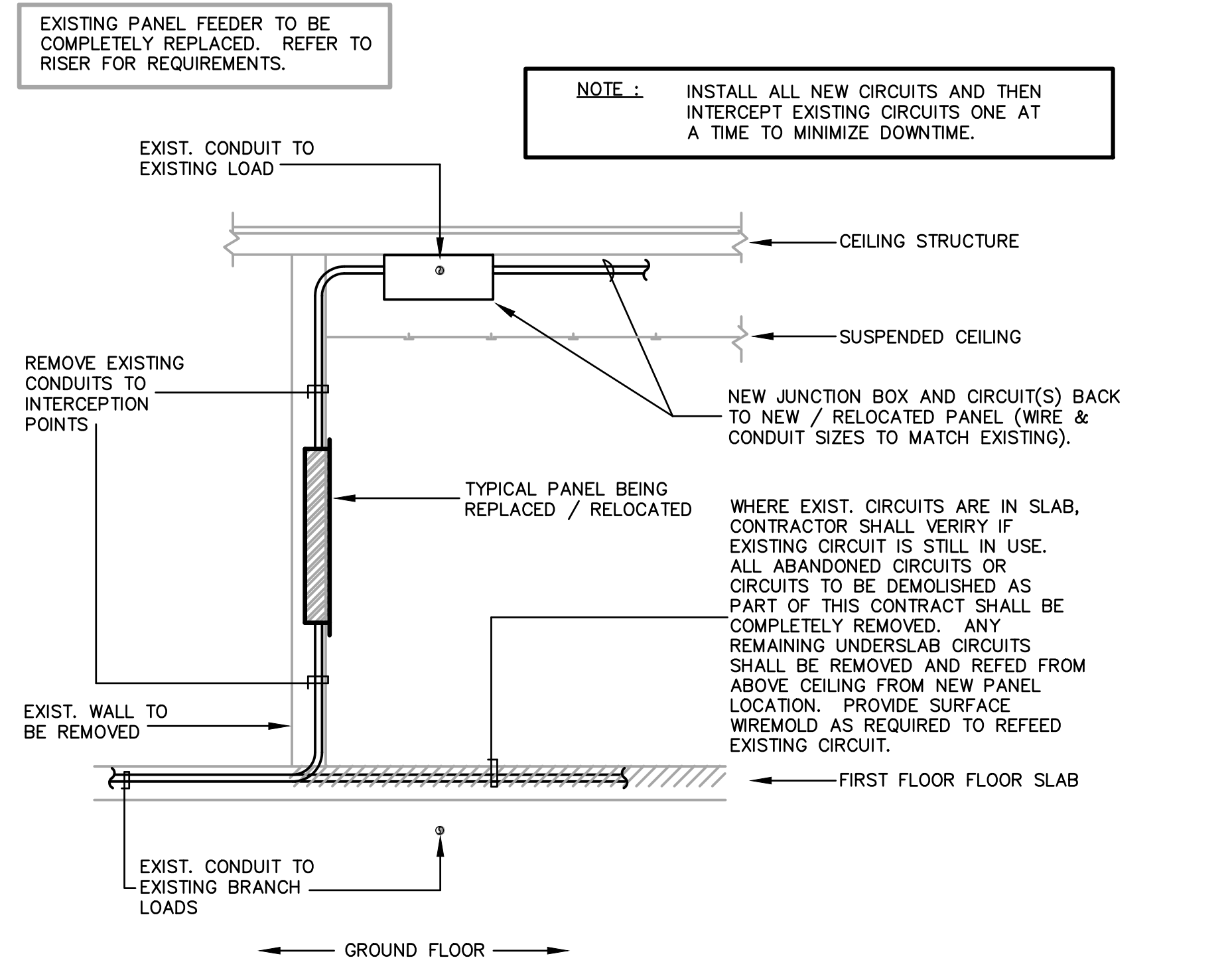
SPARE CONDUIT NOTE:
PROVIDE (4) SPARE 1" CONDUITS TO ACCESSIBLE CEILING FROM ALL NEW RECESSED PANELBOARDS.

PANEL SCHEDULE LABELING NOTE:
PROVIDE NEW TYPEWRITTEN SCHEDULES AT ALL NEW AND EXISTING PANELS WHERE CIRCUITS ARE REWORKED OR ADDED. INDICATE ALL ROOM NUMBERS BEING SERVED BY CIRCUIT ON SCHEDULE.

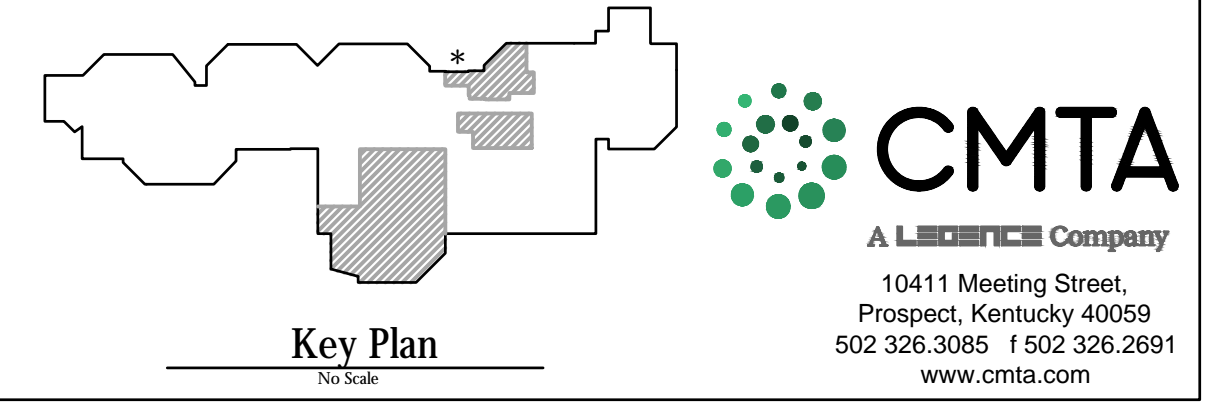
ALL PANELS SHALL BE PROVIDED WITH "DOOR IN DOOR" ACCESS COVERS

PANEL SCHEDULE SYMBOLS:
* - REFER TO RISER FOR SIZES.
GFI - PROVIDE 20A/1P GFI BREAKER
- MATCH EXISTING CONDITIONS. PROVIDE NUMBER OF CIRCUITS AS REQUIRED FOR EXISTING LOADS

PANELBOARD		LOAD		DESIGNATION		WIRE		BKR		CKT		WIRE		DESIGNATION		LOAD					
CON	CON	A	B	C											A	B	C				
12	3/4"	0.3			MILK COOLER (EXISTING)	12	201	1			2	201	12	MIXER (EXISTING)	0.7		3/4"	12			
10	3/4"		0.3		MILK COOLER (EXISTING)	12	201	3			4	---	---	---	0.7		---	---			
12	3/4"			3.8	MICROWAVE (EXISTING)	10	301	5			6	---	---	---		0.7		---			
12	3/4"	0.3			MILK COOLER (EXISTING)	12	201	7			8	201	12	MIXER (EXISTING)	1.2		3/4"	12			
12	3/4"		1.6		ICE MACHINE (EXISTING)	12	201	9			10	201	12	HEAT SEALER (EXISTING)	0.8		3/4"	12			
12	3/4"			1.6	ICE MACHINE (EXISTING)	12	201	11			12	201	12	MILK COOLER (EXISTING)		0.3	3/4"	12			
12	3/4"	1.6			CASHER STAND (EXISTING)	12	201	13			14	302	10	HOT WATER DISPENSER (EXIST.)	2.5		3/4"	10			
12	3/4"			1.6	CASHER STAND (EXISTING)	12	201	15			16	---	---	---	2.5		---	---			
12	3/4"		1.6		SALAD BAR UNIT (EXISTING)	12	201	17			18	201	12	REFRIG., 1-SECTION REACH-IN		0.3	3/4"	12			
12	3/4"	0.7			SERVING COUNTER, 6-WELL	12	202	19			20	201	12	REFRIG., 1-SECTION ROLL-IN	1.1		3/4"	12			
---	---		0.7		---	---	---	---	---	---	22	201	12	KITCHEN RCP		0.7	3/4"	12			
12	3/4"			0.7	SERVING COUNTER, 6-WELL	12	202	23			24	202	12	HOT FOOD HOLDING, 1-SECTION		1.0	3/4"	12			
---	---		0.7		---	---	---	---	---	---	26	---	---	---	1.0		---	---			
12	3/4"		0.4		SERVING COUNTER, FROST TOP	12	201	27			28	301	10	POTATO PEELER W/ DISPOSAL	2.0		3/4"	10			
12	3/4"			0.4	SERVING COUNTER, FROST TOP	12	201	29			30	1003	6	BOOSTER HEATER		5.8	1"	8			
12	3/4"	0.7			REFRIG., 2-SECTION, PASS-THRU	12	201	31			32	---	---	---	5.8		---	---			
12	3/4"			0.7	REFRIG., 2-SECTION, PASS-THRU	12	201	33			34	---	---	---	5.8		---	---			
12	3/4"		1.5		HOT FOOD HOLDING, 2-SECTION	12	202	35			36	201	12	FREEZER - BLOWER COOL		0.9	3/4"	12			
---	---		1.5		---	---	---	---	---	---	37	---	---	---			---	---			
12	3/4"		1.5		HOT FOOD HOLDING, 2-SECTION	12	202	39			40	201	12	FREEZER - DOOR HEATER/LIGHTS	0.6		3/4"	12			
---	---			1.5	---	---	---	---	---	---	42	302	10	FREEZER - COMPRESSOR (ROOF)	2.1		3/4"	10			
12	3/4"	0.5			HOOD CONTACTOR	12	201	43			44	---	---	---	2.1		---	---			
12	3/4"			0.5	HOOD LIGHTS	12	201	45			46	201	12	COOLER - BLOWER COOL	0.9		3/4"	12			
---	---				SPARE	---	---	---	---	---	48	201	12	COOLER - LIGHTS		0.1	3/4"	12			
---	---				SPARE	---	---	---	---	---	50	302	10	COOLER - COMPRESSOR (ROOF)	2.1		---	---			
---	---				SPARE	---	---	---	---	---	52	---	---	---	2.1		---	---			
12	3/4"	2.0			WASHER	12	201	55			56	201	12	SPARE							
10	3/4"		2.5		DRYER	10	302	57			58	201	12	SPARE							
---	---			2.5	---	---	---	---	---	---	59	---	---	---		0.7	3/4"	12			
12	3/4"	1.1			KITCHEN RCP	12	201	61			62	201	12	KITCHEN RCP		1.3	3/4"	12			
12	3/4"		0.9		KITCHEN RCP	12	201	63			64	201	12	FIRE SUPPRESSION FULL STATION	0.5		3/4"	12			
12	3/4"		0.9		CAFETERIA RCP	12	201	65			66	201	12	HOOD CONTROL PANEL		0.5	3/4"	12			
12	3/4"	0.5			TOP - MAINTENANCE 146	12	201	67			68	203	12	MAKE-UP AIR UNIT	1.1		3/4"	12			
12	3/4"		0.9		EF-2 (ON ROOF)	12	201	69			70	---	---	---	1.1		---	---			
12	3/4"		0.5		RACK OVEN CONTROLS	12	201	71			72	---	---	---	1.1		---	---			
12	3/4"	1.0			EH-1 - RECEIVING 142	12	203	73			74	201	12	POWER SUPPLY (DOOR 142)	0.5		3/4"	12			
---	---		1.0		---	---	---	---	---	---	76	503	8	RTU-1 (ON ROOF)		4.3	3/4"	10			
---	---			1.0	---	---	---	---	---	---	78	---	---	---		4.3		---			
10	3/4"	1.9			KITCHEN EXHAUST FAN	10	303	79			80	---	---	---	4.3		---	---			
---	---		1.9		---	---	---	---	---	---	82	352	8	HP-2 (ON ROOF)		1.4	3/4"	10			
---	---			1.9	---	---	---	---	---	---	84	---	---	---		1.4	---	---			
12	3/4"	0.0			HOOD CONTACTOR CABINET	12	201	85			86	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	88	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	90	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	92	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	94	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	96	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	98	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	100	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	102	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	104	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	106	201	12	SPARE							
---	---				SPARE	---	---	---	---	---	108	201	12	SPARE							
---	---	12.7	14.5	17.9	SUB-TOTAL										KVA	23.5	23.4	19.1			
EMERGENCY POWER: NO																MAIN BREAKER: 300A/3P		KVA GROSS-TOTAL: 36.2 37.9 37.0		111.2	
BRANCH: NORMAL																MAIN LUGS:		A.I.C. RATING: 14,000			



Notice
The Architect/Engineer does not define the scope of individual trades, subcontractors, material suppliers, or vendors. Any sheet numbering system used which identifies disciplines is solely for the Architect/Engineer's convenience, and is not intended to define a subcontractor's scope of work. Information regarding individual trades, subcontractors, material suppliers, and vendors may be detailed, described and indicated at different locations throughout these documents. No consideration will be given to requests for change orders for failure to obtain and review the complete set of drawings and specifications when preparing bids, prices, and quotations.



LIGHT FIXTURE SCHEDULE :

TYPE	DESCRIPTION	MODEL	LUMENS	REMARKS	VOLTAGE
A2	RECESSED LAY-IN 2'x4' DIMMABLE LED FLAT PANEL WITH ALUMINUM HOUSING, POLYCARBONATE LENS	TGS #88-24-50-35 HUBBELL EQUAL COOPER EQUAL PHILIPS EQUAL LITHONIA "CPANEL" EQUAL	8250 LUMENS @50 INPUT WATTS	0-10V DIMMABLE DRIVER WITH LESS THAN 10% THD BALLAST.	UNV
B1	SAME AS "A2" EXCEPT WITH 2'x2' HOUSING	TGS #88-22-40-35 HUBBELL EQUAL COOPER EQUAL PHILIPS EQUAL LITHONIA "CPANEL" EQUAL	4400 LUMENS @40 INPUT WATTS	0-10V DIMMABLE DRIVER WITH LESS THAN 10% THD BALLAST.	UNV
C	PENDANT LED RING FIXTURE	SP # AP1987-1228W-120/277V-400K-80-DIM1-HIO-F800-MA-M802 OR EQUAL	23,088 LUMENS @226 INPUT WATTS	PROVIDE AIRCRAFT CABLING AS REQUIRED TO MOUNT EACH FIXTURE AT 24"-0" AFF.	UNV
D	4" RECESSED CAN LIGHT FIXTURE	HALO # HC4-20-D010-HM4-12-840-41-MD-C OR EQUAL	2000 LUMENS @22 INPUT WATTS		UNV
EW	20W EMERGENCY REMOTE BATTERY WITH SELF-DIAGNOSTICS	SURE-LITES # IN20-NC-5-30 OR EQUAL			UNV
H	48" INDUSTRIAL STRIP FIXTURE	LITHONIA # ZLD-148-ASR-3000LM-FST-INVOLT-40K-80CRI COOPER EQUAL LIGHTOLIER EQUAL HUBBELL EQUAL	3000 LUMENS @25 INPUT WATTS		UNV
K1	2'x2' LAY-IN LED TROFFER WITH FLAT WHITE EXTRUDED ALUMINUM DOOR FRAME, WITH NEOPRENE GASKETING AND INVERTED A12.125 LENS	LITHONIA #26TL2 40L RW A12125 G21 LP835 CLR ABC LATC COOPER EQUAL LIGHTOLIER EQUAL	4000 LUMENS @35 INPUT WATTS	0-10V DIMMABLE DRIVER TO 1%	UNV
K2	2'x4' LAY-IN LED TROFFER WITH FLAT WHITE EXTRUDED ALUMINUM DOOR FRAME, WITH NEOPRENE GASKETING AND INVERTED A12.125 LENS	LITHONIA #26TL4 72L RW A12125 G21 LP835 CLR ABC LATC COOPER EQUAL LIGHTOLIER EQUAL	7200 LUMENS @53 INPUT WATTS	0-10V DIMMABLE DRIVER TO 1%	UNV
X1	UNIVERSAL MOUNT EXIT SIGN, INTEGRAL BATTERY	LITHONIA # LQC-W-R-ELN COOPER EQUAL LIGHTOLIER EQUAL HUBBELL EQUAL	LED		UNV
EB	125W REMOTE EMERGENCY BATTERY INVERTER	ISOLITE #E3MINI 125 LC MB COOPER EQUAL LIGHTOLIER EQUAL HUBBELL EQUAL	166 INPUT WATTS	COORDINATE LOCATION WITH EQUIPMENT TO ALLOW ACCESS FOR MAINTENANCE AND TESTING.	UNV
WL1	LED VANITY LIGHT WITH EXTRUDED ALUMINUM HOUSING AND ACRYLIC DIFFUSER	BROWNLEE LIGHTING #FLOW-RD-MINI-1260-BN-X-H08-BN-40K COOPER EQUAL LIGHTOLIER EQUAL	750 LUMENS @8 INPUT WATTS		UNV
W	EXTERIOR WALL MOUNT LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, IMPACT-RESISTANT TEMPERED GLASS LENS WITH MULTIPLE LIGHT ENGINES	LITHONIA #WST LED P3 40K VW MVOLT SF COOPER EQUAL LIGHTOLIER EQUAL	7200 LUMENS @53 INPUT WATTS	FIXTURE SHALL HAVE FULL CUTOFF. FIXTURE SHALL BE MOUNTED AT 10"-0" AFF UNLESS NOTED OTHERWISE. FINISH SHALL BE BLACK.	UNV

LIGHTING CONTROLS SEQUENCE OF OPERATIONS:

- DAYLIGHT PHOTOCELL OPERATION: DEVICE SHALL BE SET TO MAINTAIN DESIGNED ARTIFICIAL ILLUMINATION LEVEL IN EACH ZONE/AREA.
- ALL LUMINAIRES WITHIN A DAYLIGHT ZONE SHALL BE SEPARATELY CONTROLLED FROM THE REST OF THE GENERAL LIGHTING IN THE SPACE. THESE LUMINAIRES SHALL BE CONTROLLED USING AUTOMATIC DAYLIGHT HARVESTING CONTROLS. THE DAYLIGHT HARVESTING CONTROLS SHALL PROVIDE SMOOTH AND CONTINUOUS DIMMING. DIMMING SHALL BE INITIATED WHEN TOTAL ILLUMINATION (COMBINED DAYLIGHT AND ELECTRIC LIGHTING) REACHES 150% OF THE MAINTAINED DESIGN ILLUMINANCE PROVIDED BY THE ELECTRIC LIGHTING ONLY.
- VACANCY SENSOR OPERATION: DEVICE SHALL BE MANUAL ON AND AUTOMATIC OFF. LIGHTING TO TURN OFF AFTER 20 MINUTES OF NO OCCUPANCY.
- OCCUPANCY SENSOR OPERATION: DEVICE SHALL BE AUTOMATIC ON AND AUTOMATIC OFF. LIGHTING TO TURN OFF AFTER 15 MINUTES OF NO OCCUPANCY.
- VACANCY SENSOR WITH DIMMING CONTROLS: PROVIDE 70% OF LIGHT IN ZONE WHEN WALL SWITCH IS ACTIVATED. OCCUPANT SHALL BE ABLE TO ADJUST FROM 0% TO 100% ON WITH RAISE/LOWER BUTTONS.
- OCCUPANCY SENSOR WITH DIMMING CONTROLS: PROVIDE 70% OF LIGHT IN ZONE WHEN OCCUPANCY SENSOR IS ACTIVATED. OCCUPANT SHALL BE ABLE TO ADJUST FROM 0% TO 100% ON WITH RAISE/LOWER BUTTONS.
- OCCUPANCY SENSOR CONTROL ZONES WITHOUT MANUAL OR DIGITAL SWITCHING SHALL BE CONTROLLED BY OCCUPANCY SENSORS ONLY.
- INTERIOR LIGHTING RELAY CABINETS WITH OCCUPANCY SENSOR OVERIDES.
- TEMPERATURE CONTROLS CONTRACTOR SHALL INTERFACE WITH BUILDING AUTOMATION SYSTEM. H.A. OCCUPIED AND UNOCCUPIED SCHEDULES VIA THE BUILDING AUTOMATION SYSTEM TIME CLOCK AND USER SCHEDULES.
- H.C. OCCUPIED MODE: ALL RELAYS SHALL CLOSE. INTERIOR LIGHT FIXTURES "ON".
- H.D. DURING OCCUPIED MODE, OCCUPANTS SHALL BE ABLE TO CONTROL LIGHT FIXTURES FROM LOCAL SWITCHES AND DIMMERS.
- H.E. UNOCCUPIED MODE: ALL RELAYS SHALL OPEN AND TURN ALL INTERIOR LIGHT FIXTURES "OFF".
- H.F. EXIT SIGNS, EMERGENCY LIGHTING CHARGING, SENSING CIRCUITS AND NIGHT LIGHTS SHALL REMAIN "ON". BYPASS RELAYS.
- H.G. WHEN AN OCCUPANCY SENSOR IS INITIATED, LIGHTS IN CONTROL ZONE ASSOCIATED WITH OCCUPANCY SENSOR TURN "ON" FOR 20 MINUTES.
- EXTERIOR LIGHTING CONTACTOR CABINET(S):
- EXTERIOR LIGHTING INCLUDES BUILDING MOUNTED LIGHTING.
- EXTERIOR LIGHTING SHALL BE CONTROLLED VIA BUILDING AUTOMATION SYSTEM.
- EXTERIOR SCHEDULE SHALL BE VIA THE BUILDING AUTOMATION SYSTEM TIME CLOCK AND PHOTOCELL.
- INTERIOR LIGHTING SEQUENCE OF OPERATION:
- INTERIOR LIGHTING SHALL BE CONTROLLED VIA STAND-ALONE OCCUPANCY SENSORS. OCCUPANCY SENSORS SHALL BE W/O HAS AS INDICATED BY DETAILS.
- REFER TO COMMON AREA LIGHTING CONTROL ZONE DIAGRAMS. ZONES HAVE BEEN GIVEN A DESIGNATION FOR CLARITY. OCCUPANCY SENSORS IN EACH ZONE SHALL BE TIED TOGETHER AND SHALL CONTROL LIGHT FIXTURES WITHIN EACH ZONE VIA POWER PACKS.
- AREAS SUCH AS CLASSROOMS, STORAGE ROOMS, CONFERENCE ROOMS, OFFICES, ETC. HAVE BEEN INDICATED ON LIGHTING CONTROL ZONE DIAGRAM FOR CLARITY. OCCUPANCY SENSORS IN THESE AREAS SHALL BE TIED TOGETHER AND CONTROL LIGHTING IN RESPECTIVE AREA/ROOM.

GENERAL LIGHTING CONTROL NOTES:

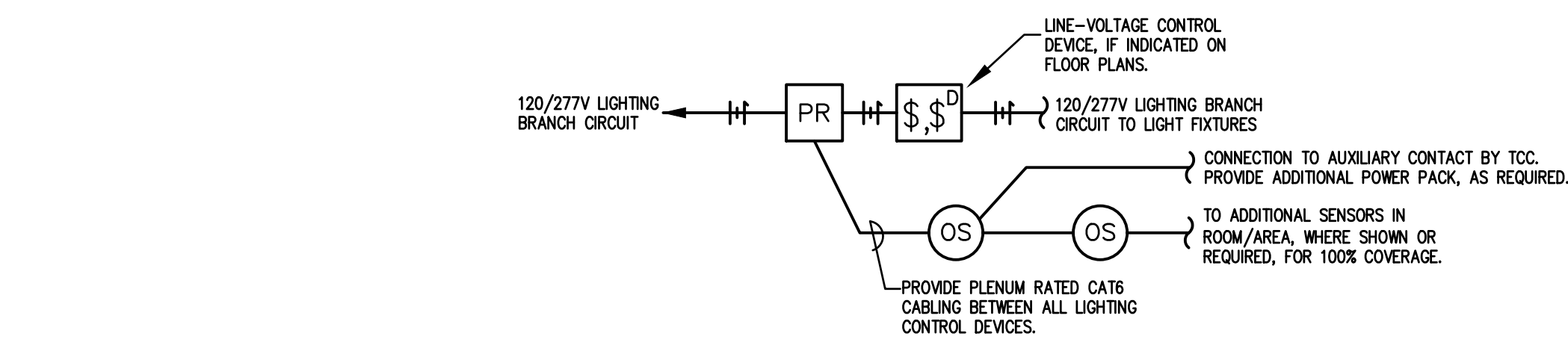
- PROVIDE \square AND \square FOR NON-DIMMABLE ZONES.
- PROVIDE \square AND \square WHEN CONTROLLING EMERGENCY LIGHTING BRANCH CIRCUIT.
- VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF LIGHTING CONTROL DEVICES PRIOR TO ROUGH-IN. THIS SCHEMATIC DIAGRAM IS MEANT TO BE ILLUSTRATIVE ONLY.
- LIGHTING CONTROL SYSTEM SHALL COMPLY WITH ENERGY CODE.
- LIGHTING CONTROL DEVICES SHALL BE SENSOR SWITCH (DLIGHT), WATTSTOPPER (DLM) OR COOPER CONTROLS. ALL DEVICES SHALL BE FURNISHED BY ONE MANUFACTURER.
- ALL LIGHTING CONTROL SYSTEMS SHALL BE STAND-ALONE. SYSTEMS THAT REQUIRE HEAD-END SOFTWARE ARE NOT ACCEPTABLE.
- CEILING SENSORS AND PHOTOCELLS SHALL NOT BE SUPPORTED BY THE CEILING TILES. PROVIDE MOUNTING BRACKET TO SUPPORT SENSORS AND PHOTOCELLS FROM THE CEILING GRID.
- ALL POWER PACKS AND RELAYS SHALL BE CONCEALED, READILY ACCESSIBLE AND LOCATED ABOVE AN ACCESSIBLE CEILING.
- ALL OCCUPANCY AND VACANCY SENSORS SHALL BE DUAL-TECHNOLOGY TYPE.
- PROVIDE J-HOOKS ON 2' CENTERS ABOVE ACCESSIBLE CEILING FOR ALL LOW-VOLTAGE CABLING. J-HOOK INSTALLATION SHALL NOT INTERFERE WITH REMOVAL OF CEILING TILES. ADD SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO THE AREAS WALLS. PROVIDE CABLING IN CONDUIT IF CEILING IS OPEN OR ABOVE INACCESSIBLE CEILING.
- PROVIDE AN EXTRA 1' OF COILED-UP, LOW-VOLTAGE CONTROL WIRING ABOVE ALL CEILING MOUNTED OCCUPANCY/VACANCY SENSOR AND PHOTOCELLS.
- ALL DIGITAL WALL STATIONS SHALL HAVE CUSTOM ENGRAVED BUTTONS. EXACT ENGRAVING SHALL BE COORDINATED DURING SHOP DRAWING REVIEW.
- ALL CONTROL STATIONS SHALL HAVE FACTORY ENGRAVED BUTTON FACES.
- WHERE MULTIPLE CIRCUITS SERVE ONE ZONE, PROVIDE ADDITIONAL POWER PACKS AS REQUIRED TO CONTROL ALL CIRCUITS IN ZONE TOGETHER. PROVIDE ALL ACCESSORIES, DEVICES AND CABLING FOR OPERATION AS DESCRIBED.
- ALL 0-10V WIRING AND CATEGORY CABLING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR FOR A COMPLETE AND OPERATIONAL SYSTEM.
- THE INTERFACE CONNECTION FROM THE POWER PACKS AUXILIARY RELAYS TO THE BUILDING AUTOMATION SYSTEM SHALL BE PROVIDED BY THE TEMPERATURE CONTROLS CONTRACTOR (TCC).
- PROVIDE REMOTE TEST SWITCHES FOR EMERGENCY RELAY CONTROLLERS "ER" AND/OR "ET" LOCATED ABOVE ACCESSIBLE CEILING. TEST SWITCH SHALL BE LOCATED WITHIN THE AREA THAT THE "ER" IS SERVING. COORDINATE EXACT LOCATION WITH ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.
- ADJUST SENSOR LOCATION AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFFS.
- SET AUTOMATIC OFF INTERVAL AT 20 MINUTES.
- POWER PACKS LOCATED IN GYMNASIUMS AND AREAS SUBJECT TO DAMAGE SHALL BE INSTALLED IN A NEMA 1 METAL ENCLOSURE.
- SUBMIT FULL SIZE MANUFACTURER SHOP DRAWINGS, WITH BILL OF MATERIALS, INDICATING ALL DEVICE LOCATIONS, OCCUPANCY/VACANCY SENSOR COVERAGE PATTERNS AND RISER DIAGRAMS. PROVIDE ADDITIONAL OCCUPANCY SENSORS, AS REQUIRED, FOR 100% COVERAGE.
- CONTRACTOR SHALL VERIFY ALL ROOM NAMES AND NUMBERS USED FOR LABELING IS IN ACCORDANCE WITH FINAL DESIGNATIONS CHOSEN BY THE OWNER AND ARCHITECT.
- EXACT LOCATION OF ALL DEVICES SHALL BE INDICATED ON RECORD/AS-BUILT DRAWINGS.
- EXTRA MATERIALS: PROVIDE TWO (2) OF EACH LIGHTING CONTROL DEVICE UTILIZED. EXTRA MATERIALS SHALL BE HANDLED OVER TO THE OWNER AT SUBSTANTIAL COMPLETION.
- FURNISH ALL REQUIRED CONTROL WIRING AND ALL COMPONENTS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- COORDINATE AL DEVICE BACK BOX SIZES, LOCATIONS, MOUNTING HEIGHTS, ETC. WITH MANUFACTURER RECOMMENDATIONS AND WIRING DIAGRAM PRIOR TO CONSTRUCTION.

LIGHTING CONTROL LEGEND

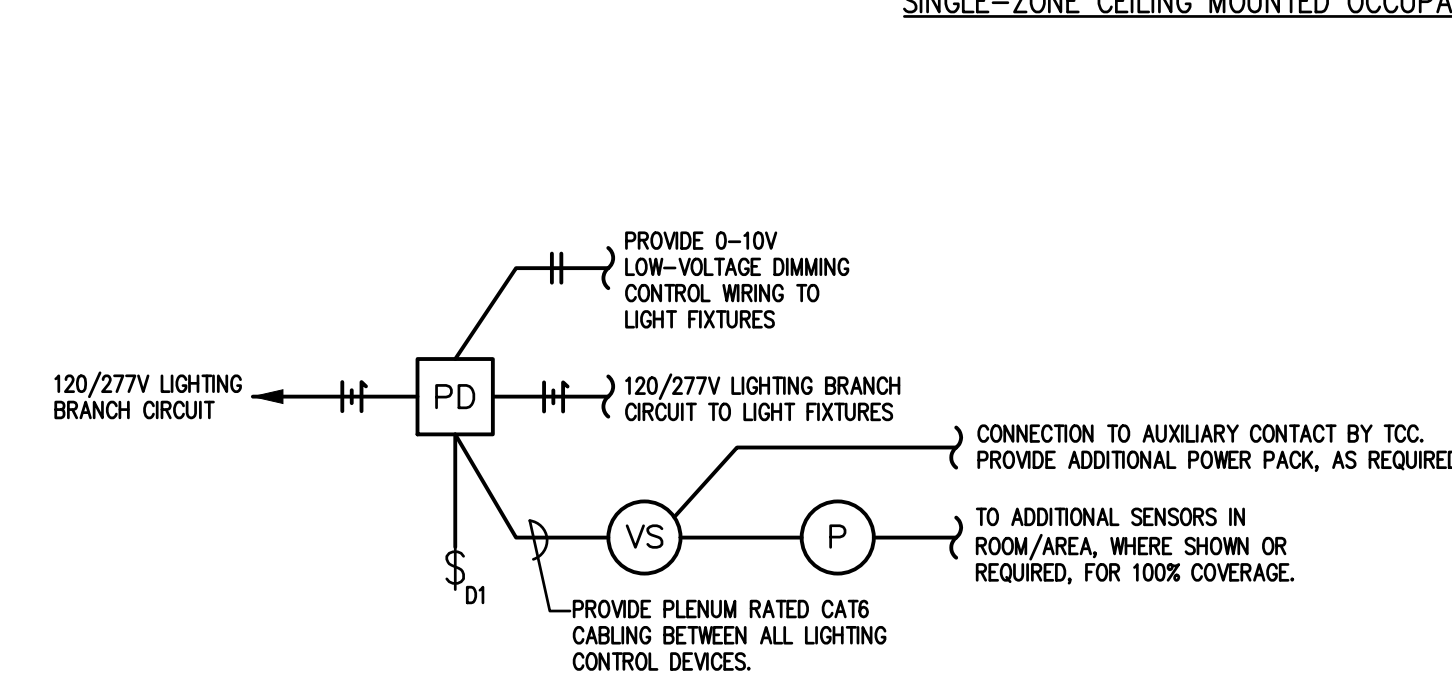
LIGHT SWITCH, SPST, GENERAL PURPOSE	SEE SPECS.	\$
LIGHT SWITCH, 3-WAY	SEE SPECS.	\$3
FULL RANGE SLIDE DIMMER WITH ON/OFF BUTTON, 277VAC RATED	LEVITON	WATTSTOPPER
DIGITAL WALL SWITCH, ON/OFF, SINGLE ZONE	SENSOR SWITCH #F00M DX	WATTSTOPPER LMSW-101
DIGITAL ON/OFF WALL SWITCH WITH DIMMING, SINGLE ZONE	SENSOR SWITCH #F00M DX	WATTSTOPPER LMSW-101
OCCUPANCY SENSOR WALL SWITCH, DUAL TECHNOLOGY, SINGLE POLE, (800W AT 120VAC, 1200W AT 277VAC)	SENSOR SWITCH WSX P01V	WATTSTOPPER DSW-301
VACANCY SENSOR WALL SWITCH, DUAL TECHNOLOGY, SINGLE POLE, (800W AT 120VAC, 1200W AT 277VAC)	SENSOR SWITCH WSX P01V	WATTSTOPPER DSW-301
OCCUPANCY SENSOR WALL SWITCH WITH 0-10V DIMMING, DUAL TECHNOLOGY, SINGLE POLE	SENSOR SWITCH WSX P01 D	WATTSTOPPER DSW-311
CEILING MOUNTED EXTENDED RANGE DUAL-TECHNOLOGY OCCUPANCY SENSOR, WITH AUXILIARY RELAY FOR CONNECTION TO BAS BY TCC.	SENSOR SWITCH #CM P01 9 R/B AR	WATTSTOPPER LMDC-100
CEILING MOUNTED EXTENDED RANGE DUAL-TECHNOLOGY VACANCY SENSOR, WITH AUXILIARY RELAY FOR CONNECTION TO BAS BY TCC.	SENSOR SWITCH #CM P01 9 R/B AR	WATTSTOPPER LMDC-100

LIGHTING CONTROL LEGEND NOTES:

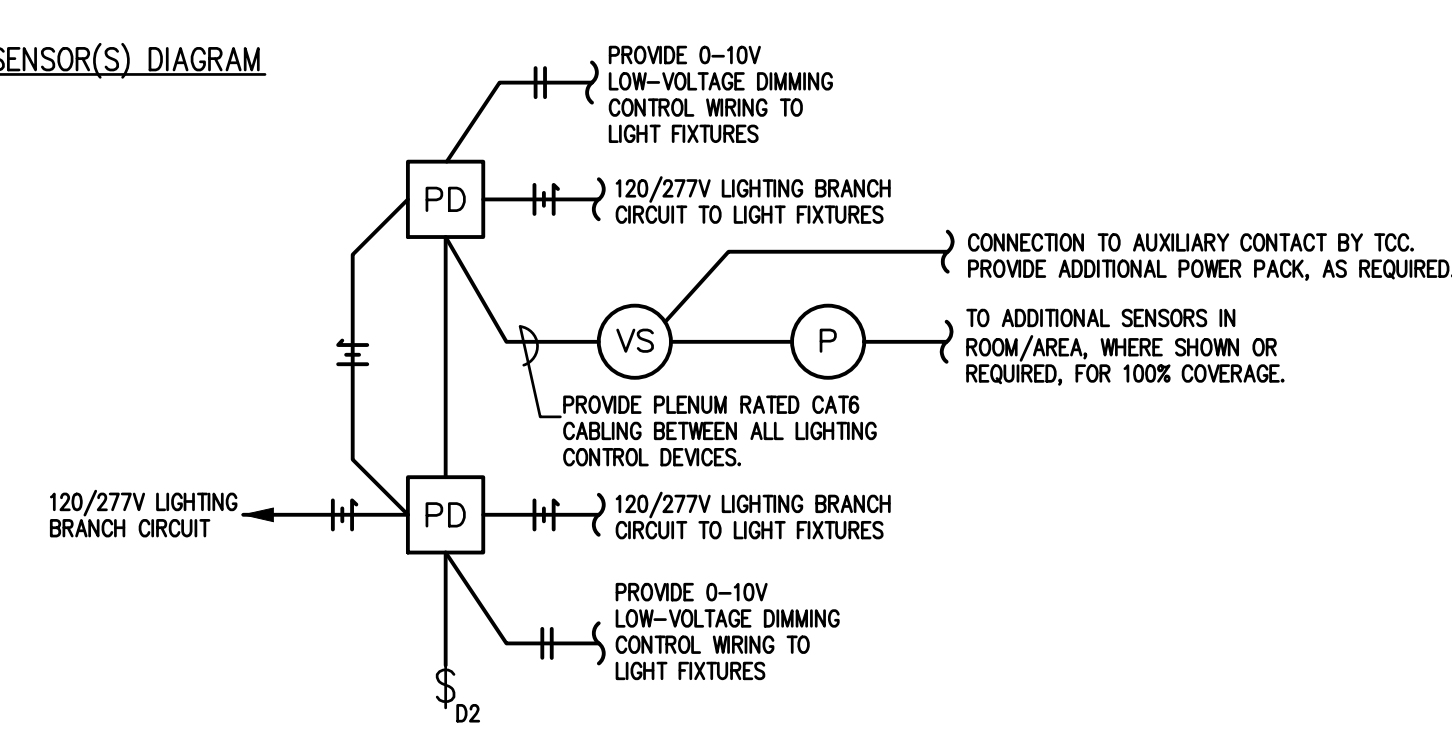
- OCCUPANCY SENSORS SHALL BE PROGRAMMED AS AUTOMATIC ON, AUTOMATIC OFF.
- VACANCY SENSORS SHALL BE PROGRAMMED AS MANUAL ON, AUTOMATIC OFF.
- OR EQUAL BY WATTSTOPPER OR COOPER CONTROLS.
- SENSOR AUTOMATIC OFF TIME INTERVAL TO BE SET AT 20 MIN.
- ADJUST SENSOR LOCATION AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFFS.
- ALL DEVICES SHALL BE LOCATED IN ACCESSIBLE LOCATIONS APPROVED BY ENGINEERS.
- REFER TO SPECIFICATION FOR DEVICE FINISHES.



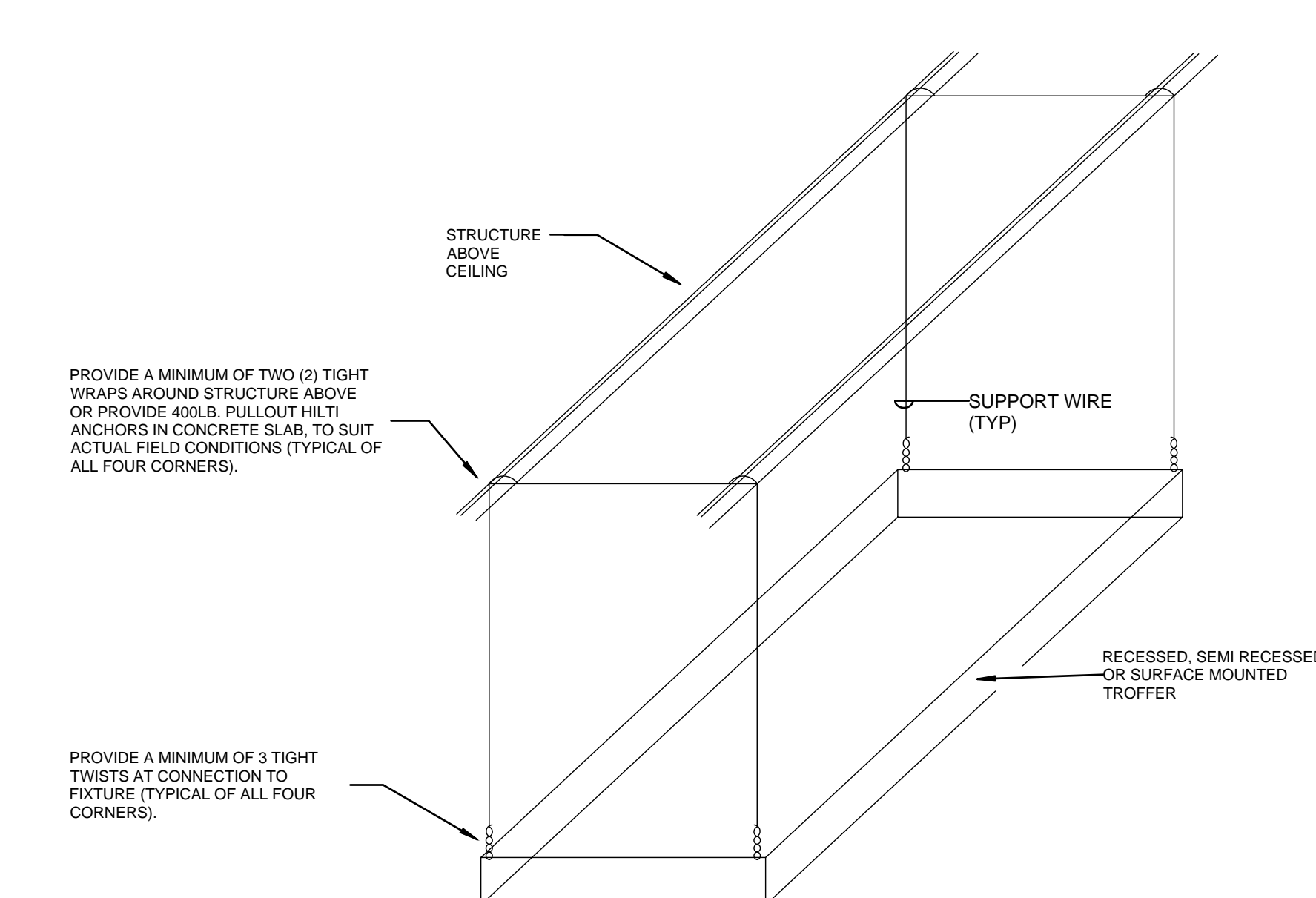
SINGLE-ZONE CEILING MOUNTED OCCUPANCY SENSOR(S) DIAGRAM



SINGLE-ZONE CEILING MOUNTED VACANCY SENSOR(S) WITH DIMMING DIAGRAM



DUAL-ZONE CEILING MOUNTED VACANCY SENSOR(S) WITH DIMMING DIAGRAM

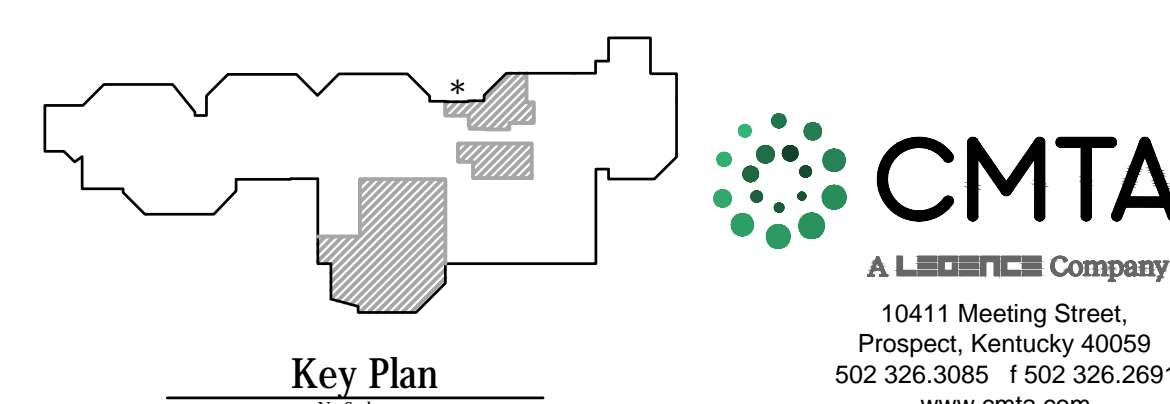


GENERAL TROFFER SUPPORT DETAIL NOTES:
 1. SUPPORT WIRES SHALL BE GALVANIZED REGULAR COATING, SOFT TEMPER, 0.1055 INCHES IN DIAMETER (10 GAUGE).
 2. ALTERNATELY, CONTRACTOR MAY SUPPORT FIXTURES WITH SINGLE WIRE FROM ALL FOUR CORNERS OF FIXTURE PER SPECIFICATIONS WITH NUMBER OF TWISTS AT FIXTURE AND NUMBER OF WRAPS AROUND STRUCTURE INDICATED IN THIS DETAIL.

1 STAND-ALONE LIGHTING CONTROL DETAILS
 SCALE: NONE

2 TROFFER SUPPORT DETAIL
 SCALE: NONE

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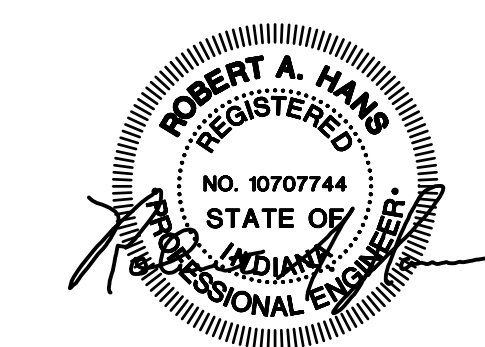
TowerPinkster
 Architecture - Engineering - Interiors

PROJECT TITLE: NORTH HARRISON ELEMENTARY SCHOOL
 OWNER: NORTH HARRISON COMMUNITY SCHOOLS
 2024 ADDITIONS AND RENOVATIONS
 1115 W WHISKEY RUN RD, NW RAMSEY, IN 47166

ISSUED FOR: Public Bidding Addendum No. 1
 DATE: 04-03-2024
 04-12-2024

SHEET NUMBER: E601
 DATE: APRIL 3, 2024

REGISTERS
 NO. 10707744
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

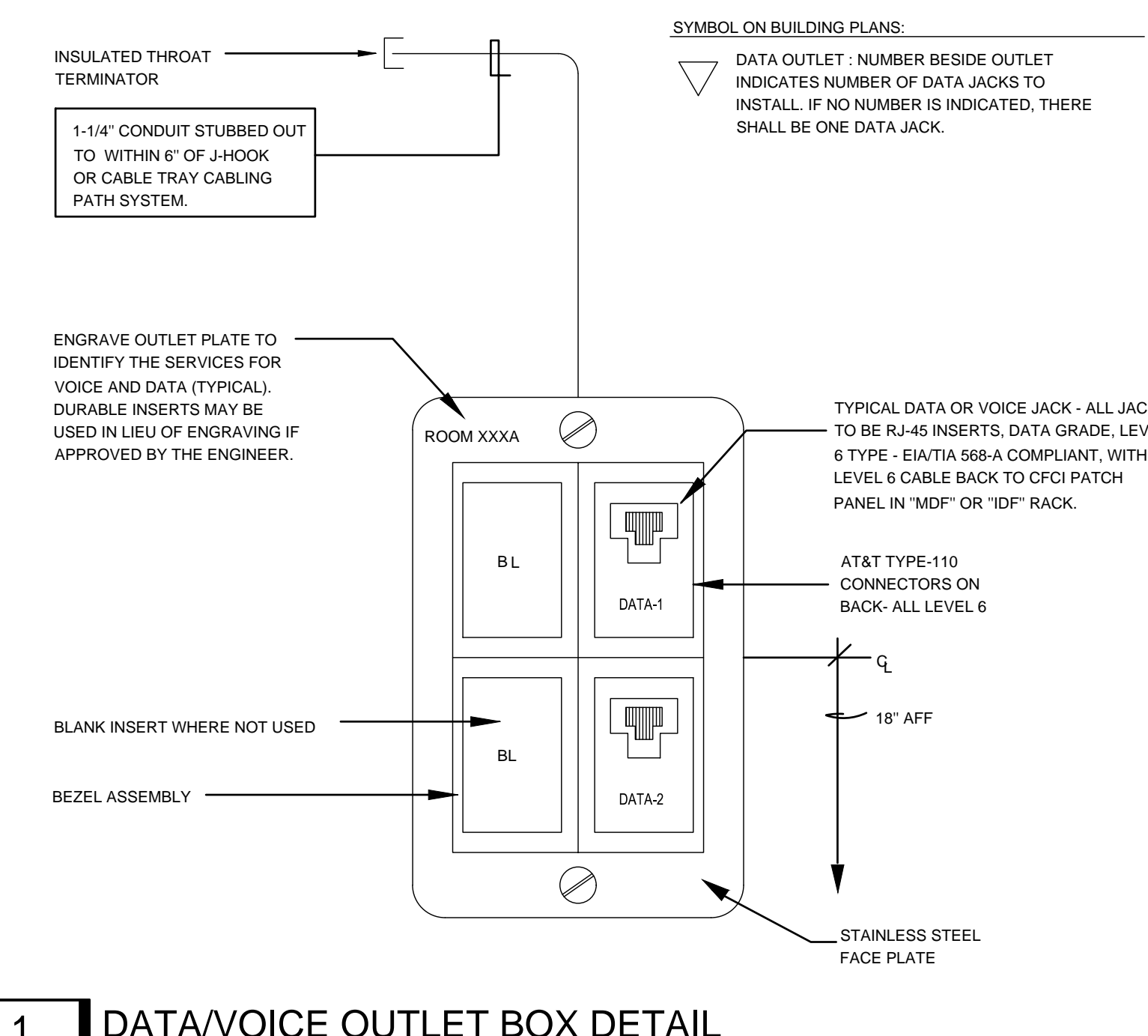


ISSUED FOR DATE
Public Bidding 04-03-2024
Addendum No. 1 04-12-2024

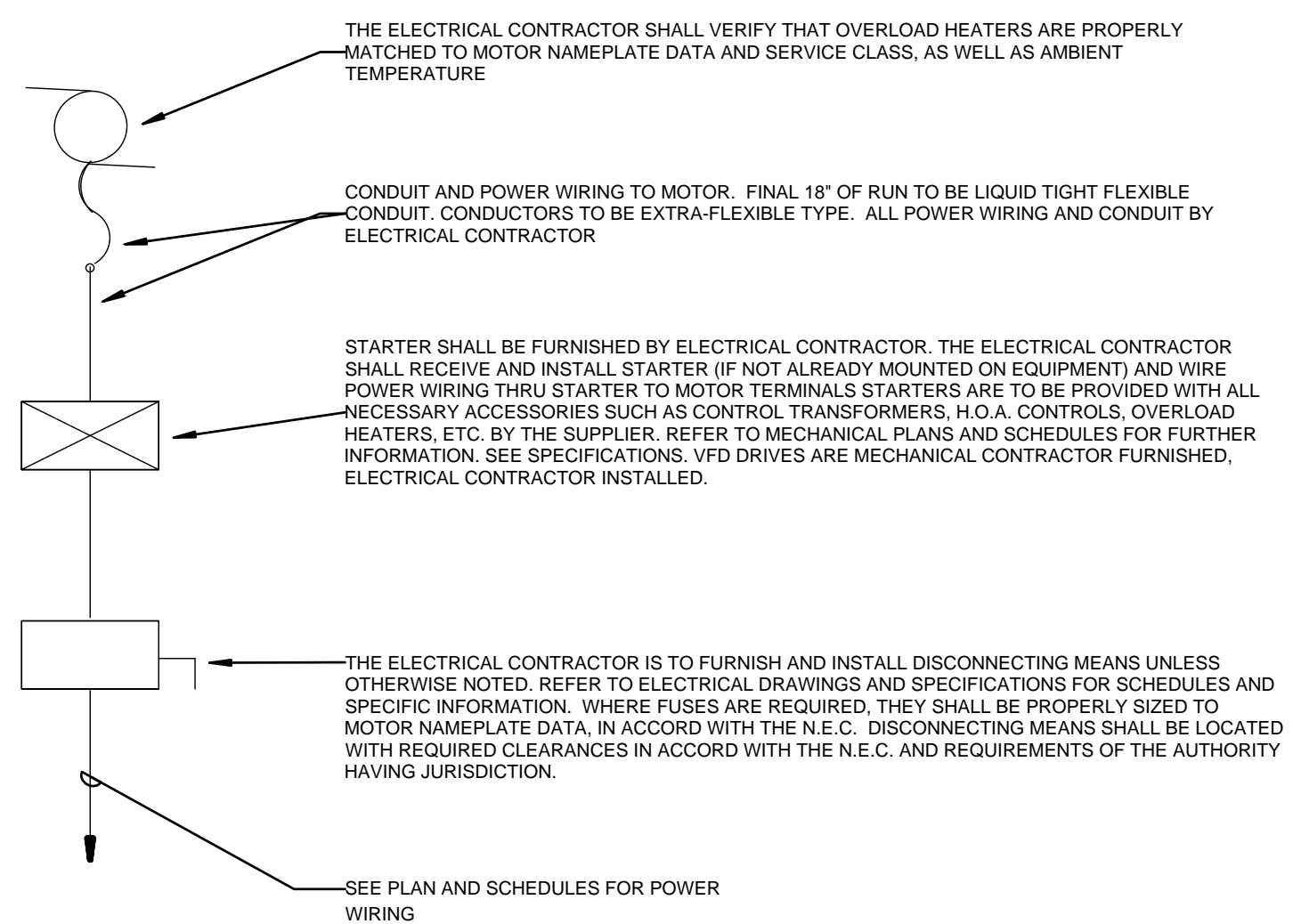
PROJECT TITLE
NORTH HARRISON
ELEMENTARY SCHOOL
2024 ADDITIONS AND
RENOVATIONS

OWNER
NORTH HARRISON
COMMUNITY SCHOOLS
1115 W WHISKEY RUN RD. NW
RAMSEY, IN 47166

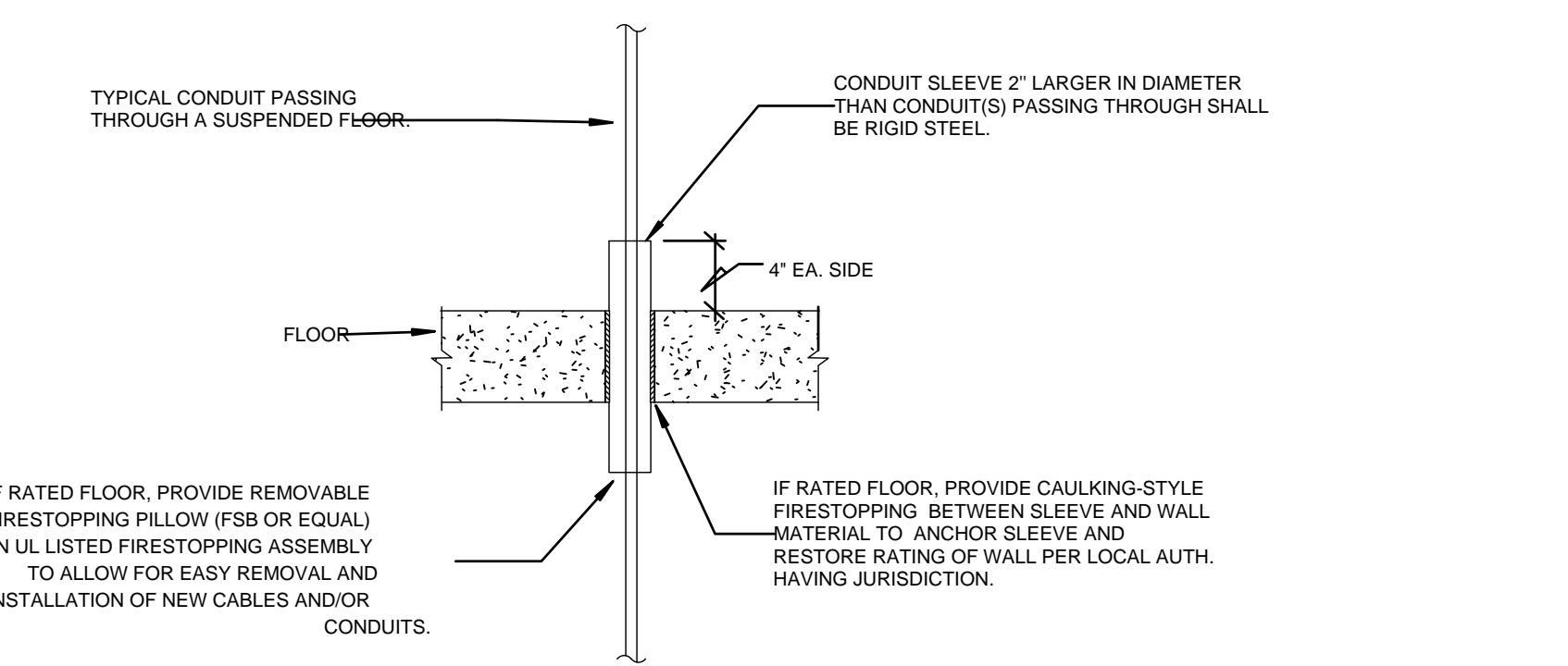
SHEET TITLE
ELECTRICAL DETAILS
DATE
APRIL 3, 2024
SHEET NUMBER
E602



1 DATA/VOICE OUTLET BOX DETAIL
SCALE: NONE

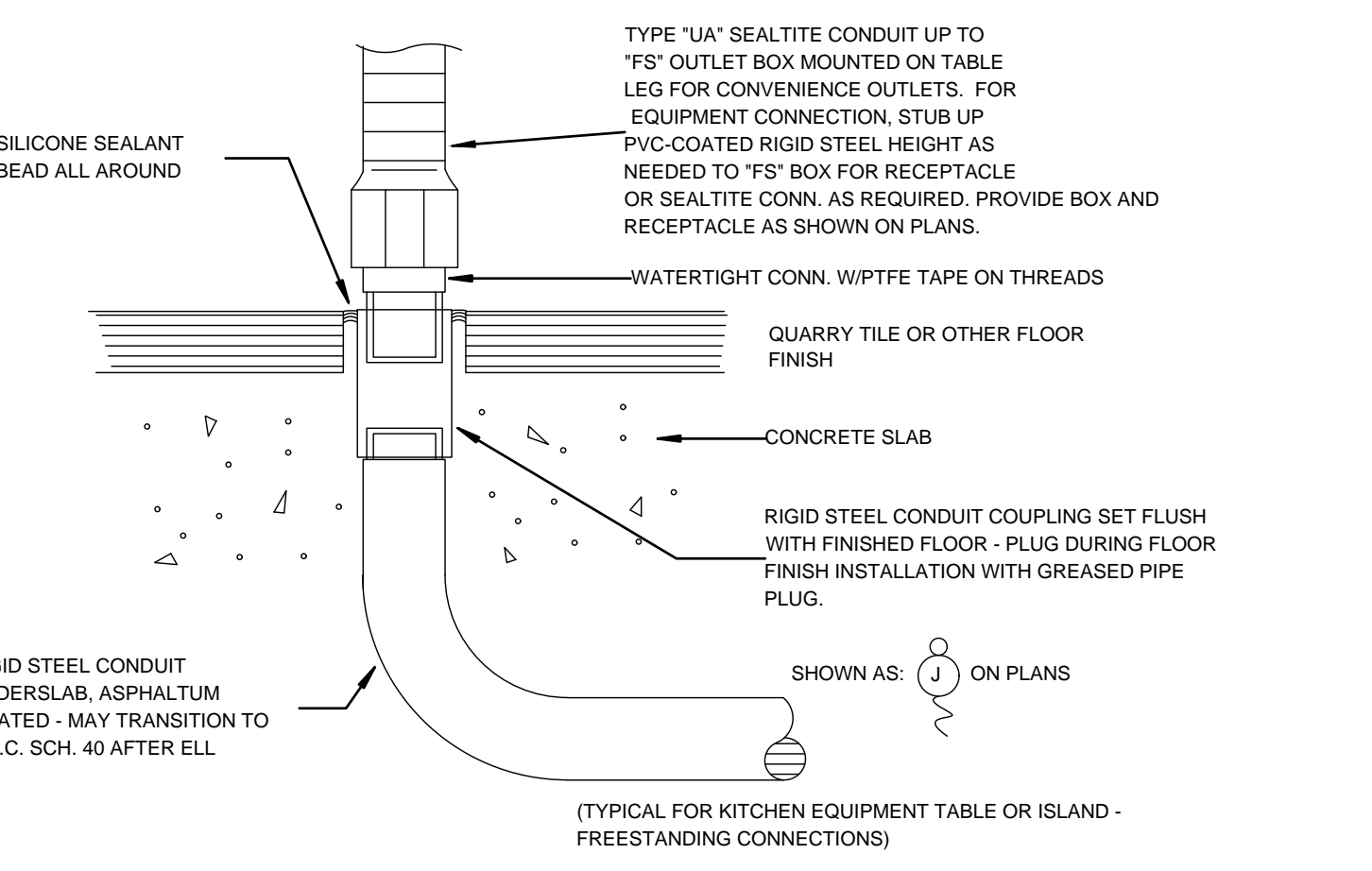


3 DETAIL OF TYPICAL MOTOR/STARTER INSTALLATION
SCALE: NONE

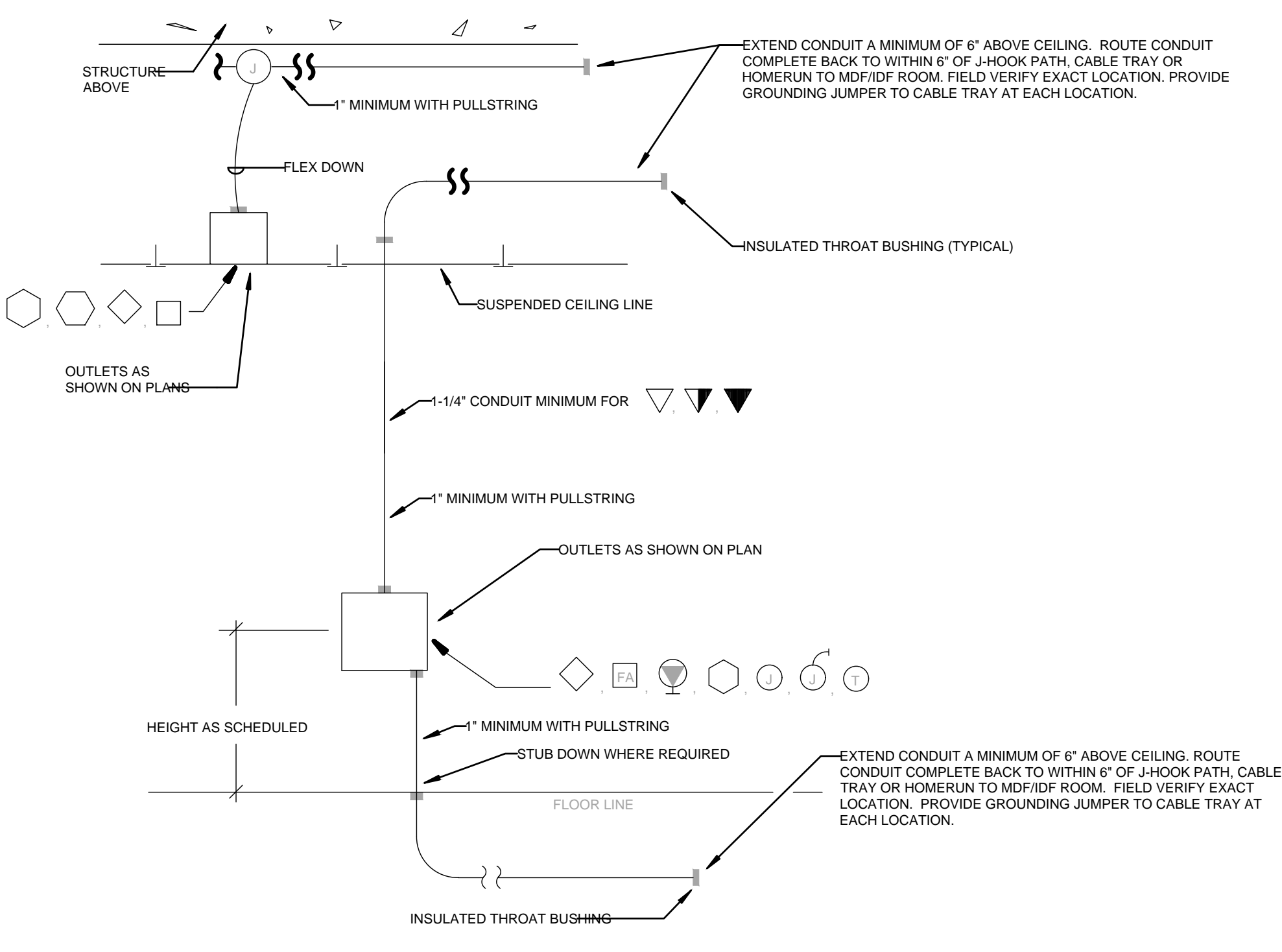


GENERAL FLOOR PENETRATION NOTES:
• WHERE CONDUITS PENETRATE A FLOOR SLAB AND ARE EXPOSED, PROVIDE SQUARE 4\"/>

2 CONDUIT PENETRATION SLEEVE INSTALLATION
SCALE: NONE

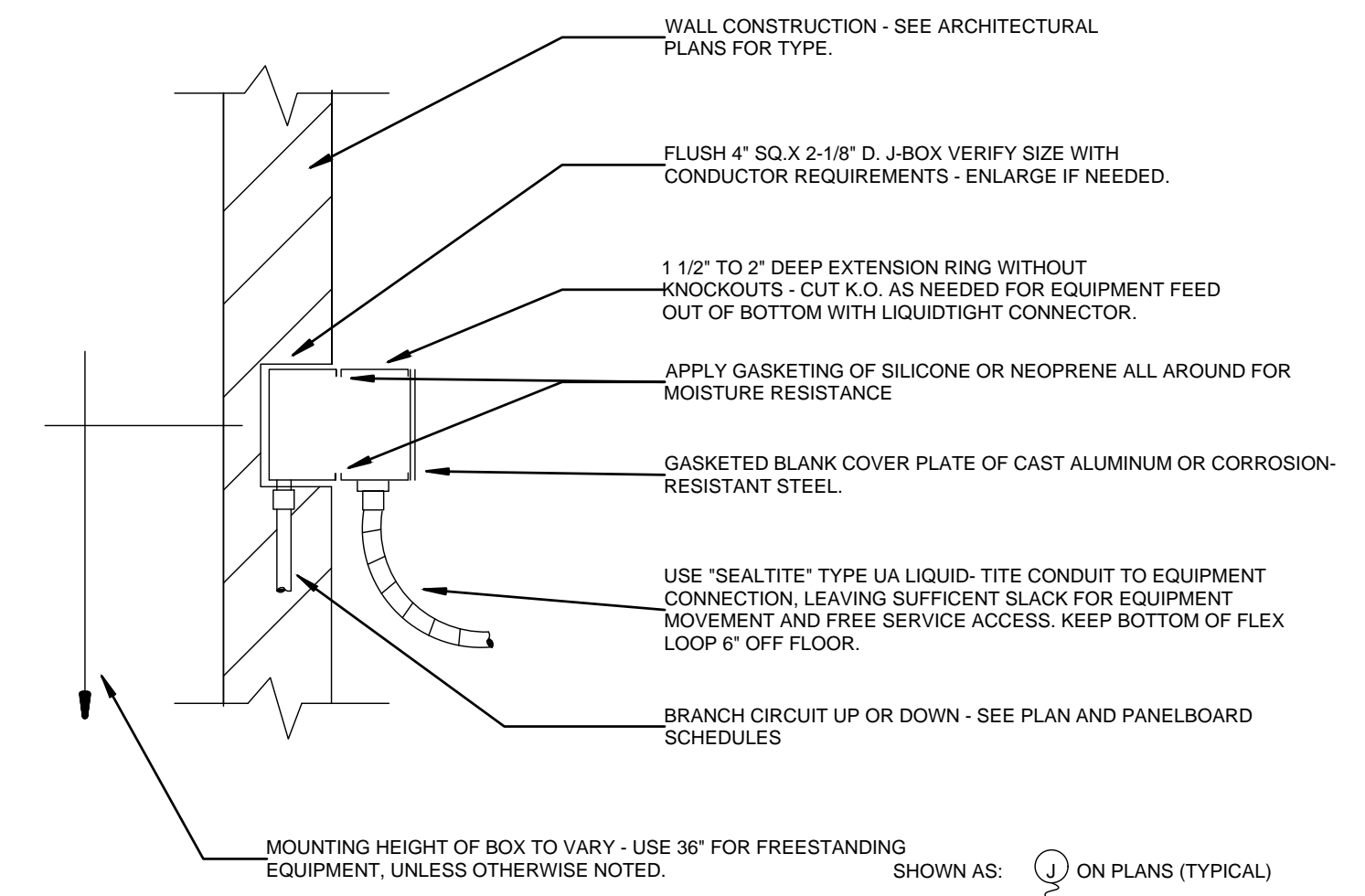


4 FLOOR OUTLET COUPLING TO FLEX STUB-UP DETAIL
SCALE: NONE

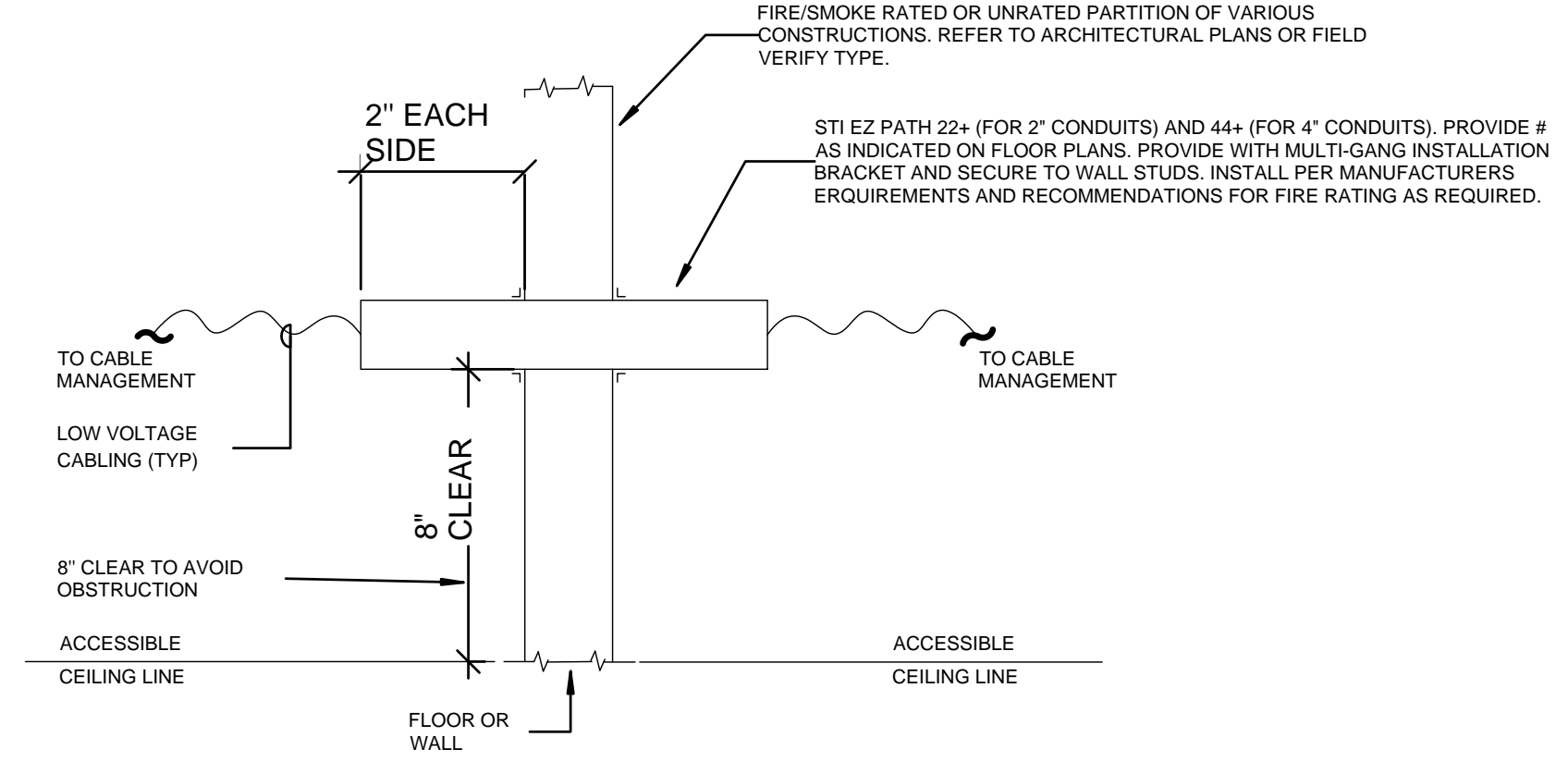


NOTES:
1. EXTEND CONDUIT TO NEAREST WIRING PATH UNLESS CABLING TERMINATES AT ANOTHER OUTLET IN THE SAME ROOM IN WHICH CASE, STUB CONDUIT OUT ABOVE THE ROOM'S SUSPENDED CEILING. REFER TO GENERAL NOTES LOCATED ON ALL SYSTEMS DRAWINGS.
2. WHERE OPEN CABLING IS INSTALLED WITHIN ENVIRONMENT AIR PLENUMS, SUCH CABLING SHALL MEET NEC REQUIREMENTS FOR SUCH INSTALLATIONS.
3. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/16\"/>

7 ROUGHING-IN DETAIL FOR STUB-OUTS
SCALE: NONE

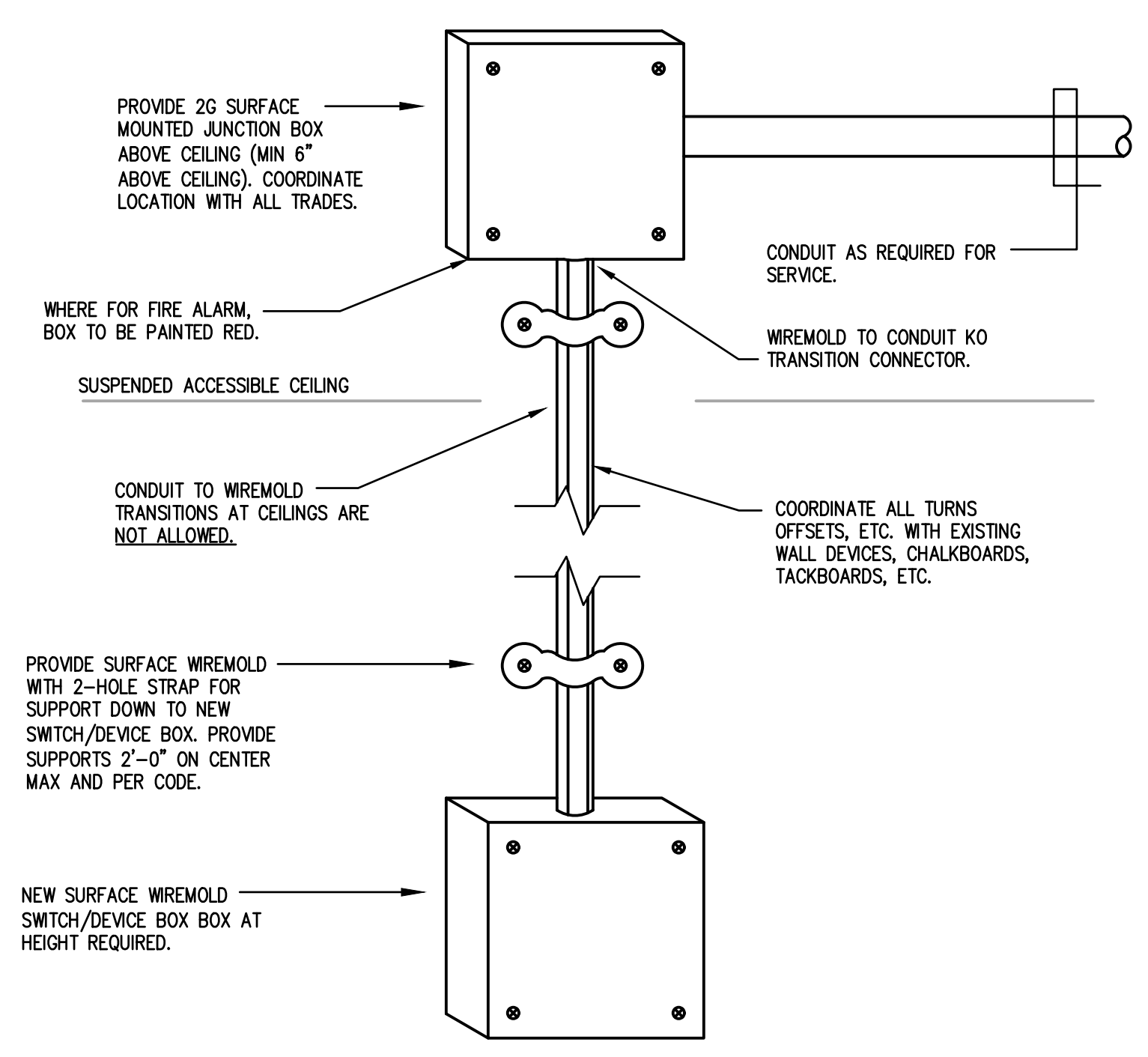


5 TYPICAL HARD-WIRED CONNECTION
SCALE: NONE



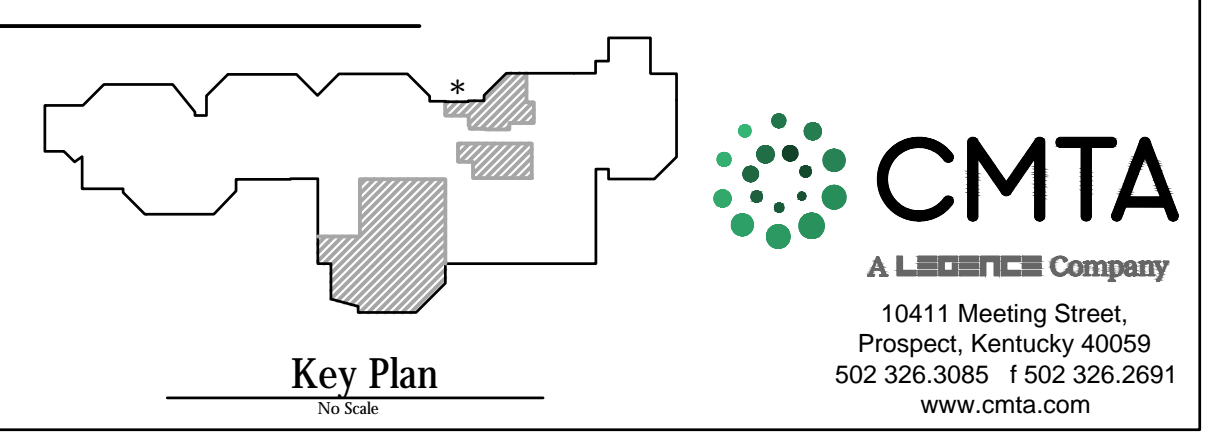
NOTE:
PATHWAYS SHALL BE PROVIDED WHERE PENETRATING CEILINGS (RATED OR NOT) FOR EXPOSED CABLE ROUTING TO LADDER TRAY IN MDP/IDF ROOMS. PROVIDE GRID SYSTEMS MOUNT AS REQUIRED.

6 SYSTEMS CABLING SLEEVE INSTALLATION DETAIL
SCALE: NONE



8 TYPICAL WIREMOLD DEVICE INSTALLATION
SCALE: NONE

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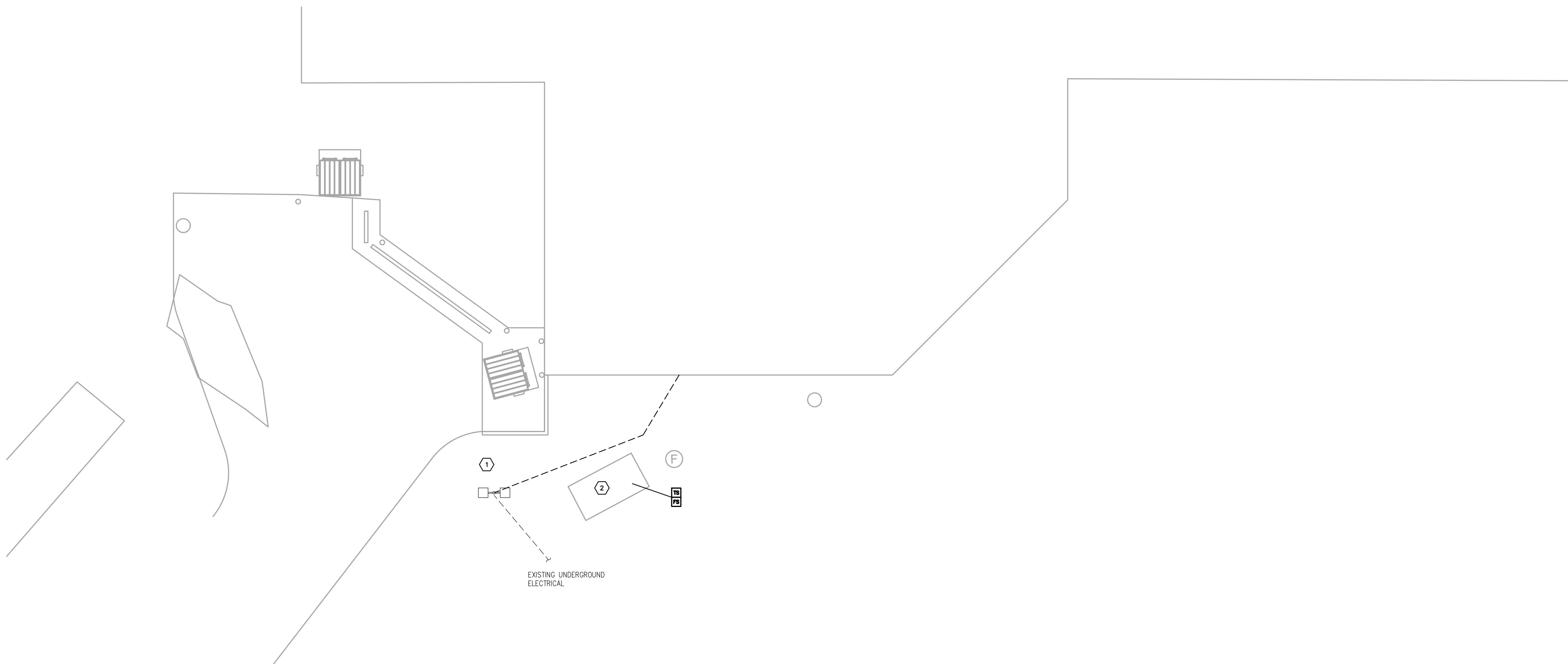
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PARTIAL SITE PLAN - ELECTRICAL DEMOLITION

SCALE: 1/16" = 1'-0"

1
UE100



PARTIAL SITE PLAN - NEW ELECTRICAL

SCALE: 1/16" = 1'-0"

2
UE100

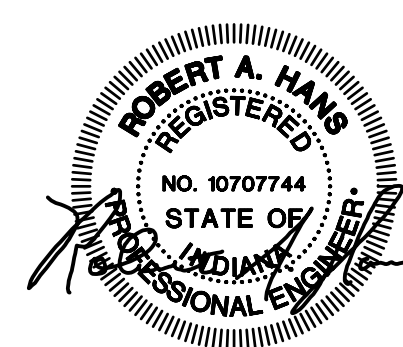
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GENERAL SITE WORK NOTES :

- A. DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS AND COORDINATE WITH CIVIL DRAWINGS AND SURVEYS.
- B. REFER ALSO TO ALL OTHER PLANS AND THE SPECIFICATION, BUT ESPECIALLY TO: THE SITE SURVEY, THE ARCHITECTURAL SITE PLAN, THE SITE GRADING PLAN, THE PLANTING PLAN (WHERE AVAILABLE), FOUNDATION PLANS, APPROPRIATE MECHANICAL & ELECTRICAL FLOOR PLANS FOR SERVICE CONTINUATIONS, THE SITE UTILITY PLAN - MECHANICAL & ELECTRICAL. WHERE THERE ARE CONFLICTS AMONG THESE PLANS AND/OR RELATED SPECIFICATIONS, ADVISE THESE ENGINEERS AT LEAST TEN DAYS PRIOR TO SUBMISSION OF BIDS.
- C. ALL FEES AND ANY OTHER COSTS TO UTILITY COMPANIES, MUNICIPALITIES, INSPECTORS, REVIEWING AGENCIES, ETC. ARE TO BE INCLUDED AS A PART OF THIS CONTRACT.
- D. FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- E. WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICE IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
- F. LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGNOSTIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY. CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS.
- G. PROVIDE LONG RADIUS ELBOWS FOR UNDERGROUND CONDUIT BENDS. WHERE SERVING A UTILITY OWNED TRANSFORMER, THE UTILITY STANDARDS SHALL TAKE PRECEDENCE.
- H. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE ENGINEER. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES NEW AND EXISTING PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID PROPOSAL INDICATES THAT THE CONTRACTOR IS FULLY AWARE OF ALL OBSTRUCTIONS AND WILL INSTALL ALL OF THE NEW UTILITIES WITHOUT REQUESTS FOR ANY ADDITIONAL CHANGES.
- I. PROVIDE GALVANIZED RIGID CONDUIT FOR EXTERIOR UNDERGROUND INSTALLATIONS TO ABOVE GRADE. EXTEND CONDUIT A MINIMUM OF 4' ABOVE GRADE.
- J. CONTRACTOR SHALL PERFORM A SMOKE TEST ON ALL CONDUITS INSTALLED ON SITE AND SHALL TAKE ALL NECESSARY CORRECTIVE ACTION IF NOT FOUND IN COMPLIANCE WITH FACILITY STANDARDS.
- K. CONTRACTOR SHALL CONTACT ENGINEER FOR INSPECTION OF TRENCHES PRIOR TO INSTALLATION OF CONDUITS OR RACEWAYS. PROVIDE PHOTOS UPON REQUEST.
- L. CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK. FINISH GRADE, SEED AND STRAW ALL DISTURBED GREEN SPACES. ALL PATCH AND REPAIR WORK SHALL BE IN ACCORDANCE WITH BOTH CIVIL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.

TAGGED NOTES :

1. REMOVE EXISTING UNDERGROUND ELECTRICAL CONNECTIONS TO SITE LIGHT POLE AS SHOWN TO ACCOMMODATE BUILDING ADDITION, ROUTE NEW ELECTRICAL FEED FOR SITE LIGHT POLE AS REQUIRED AND RECONNECT TO EXISTING CIRCUIT.
2. RECONNECT EXISTING FIRE ALARM CONNECTIONS FOR FIRE SUPPRESSION SYSTEM VAULT AT NEW LOCATION INDICATED. FIELD VERIFY EXACT CONDITIONS PRIOR TO CONSTRUCTION.



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SHEET NUMBER
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DATE
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Key Plan

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