1001 Feehanville Drive, Mount Prospect, IL 60056 | Phone 847.394.6200 | Fax 847.394.6205



#### **ADDENDUM NO. 1**

#### **Project:**

2026 Hoffman Estates High School Locker Room Renovations and Palatine High School Auditorium Improvements

Owner: Township High School District 211 1750 South Roselle Road

Palatine, Illinois 60067

Construction Manager: Architect:

Nicholas & Associates, Inc. 1001 Feehanville Drive Mount Prospect, IL 60056 ARCON Associates, Inc. 2050 S Finley Rd # 40 Lombard, IL 60148

Date: October 8, 2025

#### > INCLUDED DOCUMENTS:

- o Construction Manager Scope Clarifications
- o ARCON Addendum #1
- o Pre-bid Meeting Agenda
- o Pre-bid Sign-in Sheet
- Revised Bid Form R1

The Bidding Documents are modified, supplemented, or augmented as follows and this Addendum is hereby made a part of the proposed Contract Documents.

These clarifications are being provided to all prospective bidders based on questions or RFI's submitted to the Construction Manager. This information in no way relieves any contractor from work in the Instructions to Bidders, Drawings, or Specifications. These clarifications are provided to help delineate scope of work from Package to Package.

#### • General Clarification:

 PLEASE MAKE SURE THAT ALL THE ALLOWANCES ARE INCLUDED IN YOUR BID PROPOSALS. REFER TO THE SCOPES OF WORK IN THE SPECIFICATION AND ALL THE BID PACKAGE CLARIFICATIONS ISSUED VIA ADDENDUM.

#### ITEM NO. SCOPE CLARIFICATIONS

#### 01 <u>General Clarification for All Bid Packages</u>

- a. The Bid Opening Date has been revised/extended to October 23, 2025 at 11:00 AM. Please utilize the attached Revised Bid Form R1.
- b. Saturdays are considered a workday. A 6-day work week must be included in your bid.
  - i. Include all shift work as required. Loud activities will need to take place after Summer school hours
- c. Each contractor is required to attend the weekly construction meetings with the district, CM & design team throughout the course of construction.
- d. All contractors are responsible to provide adequate dust protection to control any/all dust created by their work
- e. Exterior temporary construction fencing at the staging areas will be provided by the CM/OWNER
- f. Flooring protection, dust protection/control and construction barricades at Palatine and Hoffman Estates High Schools will be provided by the contractors performing work in the respective areas.

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g. No diesel or gas powered equipment can be utilized during Summer School hours (7:30am – 1:30pm Monday – Thursdays) at Palatine High School.

#### 02 Notice for all Bid Packages

- a. The attendees of the Mandatory Pre-Bid Meeting held on October 7, 2025 at 3:30 pm at Hoffman Estates High School, are listed in the attached Pre-Bid Meeting Sign-in Sheets.
- b. The Building Managers at Palatine and Hoffman Estates High Schools will be available for site visits, after 3pm access is available through the loading dock/receiving. Please contact the Building Managers in advance of your planned visit at 847-755-5685 for Hoffman Estates High school, or (847) 755-1685 for Palatine.

#### 03 <u>Clarifications for Bid Package #2 Masonry</u>

a. Masonry BP#2 will grout new frames in new masonry openings.

#### 04 <u>Clarifications for Bid Package #3 General Trades</u>

- a. Include installation & removal of sheets of Masonite for complete coverage at all corridors, stairwells, gymnasium floors (both main gym and main gym mezzanines), and in adjacent spaces as required for the project work, including your work (including ground floors, first floor, second floor etc.). Document existing conditions prior to covering. These sheets should be taped at the joints with duct tape. Include visqueen below the Masonite to protect the floor surfaces. Include plywood in areas where equipment will be utilized for hauling materials in and out of the building.
- b. All corridor floor protection, including construction access route from the locker rooms, through the school to the exterior construction staging area at Palatine High School to be included in Base Bid 1.
- c. Include structural support for new mechanical openings the floor and ceilings & walls
- d. Add to note 29 ii grout new frames in existing walls and openings Masonry BP#2 will grout new frames in new masonry openings.
- e. Perform all roof work as indicated on the architectural and mechanical plans
  - i. Including roof curbs, flashing and all accessories

#### 05 Clarifications for Bid Package #4 Flooring

a. For bidding purposes, please include moisture mitigation for any new carpet or resilient/rubber flooring. Existing concrete floors to be tested prior to mitigation. The unit cost indicated on the bid form will be used for any Add/Deducts.

#### Clarifications for Bid Package #5 Fire Suppression

a. Remove the \$10,000 allowance for Palatine High School's Auditorium from your bid, there is no fire suppression work at Palatine.

#### 07 Clarifications for Bid Package #7 HVAC

06

a. ADD: Include Access Doors and Frames to your work scope. HVAC contractor to furnish all required access doors/panels for installation by the General Trades contractor.

#### 08 Clarifications for Bid Package #8 Electrical

a. Reminder that this is included in the Scope of Work notes, including new work notes:

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- i. Any required shuts downs will need to take place on Fridays or Saturdays when students are not in session.
- b. Temporarily support all ceiling mounted electrical devices/fixtures as required and reinstall accordingly once all work is complete.

Q&A:

**Question:** In general trades bid package, you list under division 7 spec section 07 26 14 surface applied moisture mitigation, please verify this should be under tile & flooring bid package #4 not under general trades.

**Response:** Correct. Moisture mitigation is part of Tile & Flooring Bid Package #4 scope of work.

**Question:** In general trades bid package, you list under division 8 spec section 08 91 00 louvers, please verify this should be under HVAC bid package #7 not under general trades.

**Response:** Louvers are part of the HVAC Bid Package #7.

**Question:** In general trades bid package, you list under division 8 spec section 08 92 00 louvered equipment enclosures. There is nothing in the spec book and I cannot find on the drawings. If needed, please provide specifications and locations.

**Response:** Design team confirmed no louvered equipment enclosures.

**Question:** In general trades bid package, you list under division 11 spec section 11 66 23 gymnasium equipment. There is nothing in the spec book and I cannot find on the drawings. If needed, please provide specifications and locations.

Response: Design team will confirm in a following addendum.

**Question:** In general trades scope of work line 29. Subline V. line 3 it lists cold formed framing. There are specifications for cold formed framing, but nothing is noted on architectural or structural drawings for cold formed framing. Please verify cold formed framing is not required.

**Response:** Cold formed framing is required at hard ceilings and soffits.

**Question:** In general trades scope of work line 29. Subline xxv. it lists FRP. There is nothing in the spec book and I cannot find on the drawings. If needed, please provide specifications and locations.

**Response:** No FRP is utilized in this project.

**Question:** Will each contractor be required to scaffold auditorium at Palatine high school for their respective ceiling work? Or will CM have general trades scope provide scaffolding for all trades??

**Response:** Electrical contractor will scaffold the auditorium for their work, and for use by the other Trades, including painting.

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Question: On spec page 01000 -34 it says 11. The HVAC contractor will be responsible to CUT, CAP, Make safe & DROP all Mechanical/HVAC items scheduled for demolition to be removed by the General Trades Bid Package contractor. A. All HVAC Equipment is to be demolished & removed from the site by the HVAC contractor complete. Which trade is removing the demolished materials and equipment from the building? Please clarify.

**Response:** See scope of work notes for individual packages removal of demolished <u>equipment</u> – besides General Trades removal of demolished <u>materials</u>.

**Question:** Who provides the boilers, AHUs, pumps and other mechanical equipment pads? The scope of work says if not shown they are by the Mechanical bid package. They are noted on the Mechanical plans and reference on the architectural and reference drawings. Are the pads by the general trades package or the mechanical package? Please clarify.

Response: By the Mechanical Contractor, per CM Manual HVAC Scope of Work, Note 20, Bid Package #7.

**END OF SECTION** 



October 3, 2025

ADDENDUM NO. 1 2026 LOCKER ROOM RENOVATIONS & MECHANICAL IMPROVEMENTS @ HOFFMAN ESTATES HS TOWNSHIP HIGH SCHOOL DISTRICT 211 PROJECT NO. 25031

Board of Education Township High School District 211 1750 South Roselle Road Palatine, Illinois 600067

The Contractor/Bidder shall acknowledge in writing on his bid proposal form the receipt of this Addendum.

This Addendum shall be part of the Specifications and Drawings for this project and shall be part of the actual contract document to complete the work. When the Architect issues an Addendum, it is the Bidder's responsibility to copy and insert it into the bid documents they have obtained from the Architect or Owner.

There are seven (7) items in this Addendum.

ITEM NO. 1: PROJECT MANUAL, SECTION 10 51 -1 – FULLY WELDED METAL LOCKERS

1. REVISE: Revise Division 10 Section 10 51 01-2.03-J to read: - Locking Device: Masterlock #1652 Built-In

Combination Lock

ITEM NO. 2: DRAWING, SHEET A7.2, INTERIOR DETAILS

1. REVISE: Revise 'C' Locker on 'LOCKER SCHEDULE' to read ' "C" LOCKER -A HEAVY DUTY VENTILATED

DOUBLE TIERED LOCKER 18"W X 15"D X 5'-0" H.

ITEM NO. 3: DRAWING, SHEET M2.0, PARTIAL GROUND FLOOR MECHANICAL PLAN

1. REVISE: REISSUE sheet to update several diffuser tags to correlate with the added DIFFUSER SCHEDULE on

sheet M7.0.

ITEM NO. 4: DRAWING, SHEET M2.1, PARTIAL FIRST FLOOR MECHANICAL PLAN

1. REVISE: REVISE sheet to update the two (2) diffuser "H" tags to tag as "D".

ITEM NO. 5: DRAWING, SHEET M2.2, PARTIAL FIRST FLOOR MECHANICAL PLAN

REVISE: REVISE sheet to update the two (2) diffuser "L" tags to tag as "E".
 REVISE: REVISE sheet to update the one (1) diffuser "K" tag to tag as "H".

ADDENDUM NO. 1 2026 LOCKER ROOM RENOVATIONS & MECHANICAL IMPROVEMENTS @ HOFFMAN ESTATES HS TOWNSHIP HIGH SCHOOL DISTRICT 211 PROJECT NO. 25031 PAGE 2

#### ITEM NO. 6: DRAWING, SHEET M7.0, MECHANICAL SCHEDULES

- 1. REVISE: At AIR HANDLING UNIT SCHEDULE
  - a) Add Schedule Note #14 to read; "AIR HANDLING UNITS (AH-1 & AH-2) HAVE HOT-GAS REHEAT (HGRH) AND REQUIRE AN ADDITIONAL COIL IN UNIT. COORDINATE COIL REQUIREMENTS WITH THE MANUFACTURER."
- 2. REVISE: At CONDENSING UNIT SCHEDULE
  - a) CU-AH1 REVISE "MECHANICAL COOLING STAGES (MIN)" to read; "25-100% (VARIABLE)".
  - b) CU-AH2 REVISE "MODEL" to read; "CFA-007".
  - c) CU-AH1 REVISE "MECHANICAL COOLING STAGES (MIN)" to read; "25-100% (VARIABLE)".
  - d) Add Schedule Note #13 to read; "CONDENSING UNITS (CU-AH1 & CU-AH2) HAVE HOT-GAS REHEAT (HGRH) AND REQUIRE AN ADDITIONAL COIL IN ASSOCIATED AHU AND AN ADDITIONAL LINE SET TO HGRH COIL. COORDINATE NUMBER OF LINE SETS AND SIZES OF LINE SETS WITH THE MANUFACTURER."
- 3. ADD: ADD "DIFFUSER SCHEDULE" in its entirety.

#### ITEM NO. 7: QUESTIONS AND ANSWERS

1. Is the roof under warranty at Hoffman Estates high school? If yes, please provide manufacturer who holds the warranty?

Response: Existing roof system is under warranty

Install Year: 2016 Manufacturer: Siplast Warranty: 20 Year

Roof System: 3-Ply SBS Asphalt Roof with Gravel Surfacing

Contractor: G.E. Riddford

#### **Attachments**

MSK-001 (M7.0)

MSK-002 (M2.0)

MSK-003 (M2.1)

MSK-004 (M2.2)

#### END OF ADDENDUM NO. 1

#### **Attachments**

#### EMM/rac

J:\1 D211\25031 2026 Locker Room Renovations @ HEHS\1 Spec\Addendum 01\25031 AD1.docx

			Н	EATING CO	OIL	COOLING COIL SUPPLY FAN SECTION					RETURN		UST FAN							EN	IERGY RE	COVERY						(SII	ECTRICANGLE POIL	TI													
AH #				ГЕМРЅ			AIR TI				CAPA	ACITY			МС	OTOR			CAPA	CITY			МО	TOR									UMMER FORMANCE	w	INTER PEI	RFORMA	NCE						
		MIN. # OF	EAT	LAT			EAT DB /WB	LAT DB /WB		GPM OR								STARTER VFD								STARTER VFD		FROST	PRESSURE						EAT L	AT							
	<b>FILTERS</b>	ROWS		(°F)	MBH	GPM	(°F)	(°F)	MBH	DX	CFM	ESP	ВНР	HP	PHASE	VOLTS	RPM	ECM	CFM	ESP	ВНР	HP	PHASE	VOLTS	RPM	ECM	TYPE	PROTECTION		EA	OA	EAT	LAT N		B/WB DB		BH MIN	OA MO	CA MO	CP EER	MAKE	MODEL	WEIGHT
1	M.E.R.V. 8 (PRE) J.E.R.V. 13 (FINAL)	2	-10 OA (20 MIXED	90	260	27	80 / 67	56 / 55	126	DX	3,450	2.0"	3.77	7.5	3Ø	460	3,777	VFD	3,450	1.0"	0.95	5	3Ø	460	2,512	VFD	WHEEL	VFD	0.5"	3,450	3,450	92	81	83.9	-4/-5 67	/36	224 3,4	50 SI			YORK	XTI-33x60	5,000
2	M.E.R.V. 8 (PRE) J.E.R.V. 13 (FINAL)	2	-10 OA (20 MIXED	91	205	21	80 / 67	57/56	96	DX	2,670	2.0"	2.53	5	3Ø	460	3,600	VFD	2,670	1.0"	2.9	5	3Ø	460	3,600	VFD	WHEEL	VFD	0.5"	2,670	2,670	92	75	72.9	-4/-5 72	/54	92 2,6	70 SI			YORK	XTI-30x57	4,500
3	M.E.R.V. 8 (PRE) J.E.R.V. 13 (FINAL)	2	-10 OA (20 MIXED	90	203	21			SEE NOTE		2,700	2.0"	2.93	5	3Ø	460	3.600	VFD	1,800	1.0"	0.32	1.5	3Ø	460	1,770	VFD	NONE										9(C	00 SE 02) NO	EE TES		YORK	XTI-30X51	2,100
	M.E.R.V. 8 (PRE) J.E.R.V. 13 (FINAL)	2	-10 OA (20 MIXED	82	1133	116			SEE NOTE		17,000	2.0"	17.93	25	3Ø	460	1,775	VFD	11,350	1.0"	4.37	7.5	3Ø	460	1,180	VFD	NONE											50 SE	EE TES		YORK	XTI-63x111	7,100

ALL UNITS SHALL BE COMPLETE WITH SPRING TYPE VIBRATION ISOLATORS FOR FAN CARRIER, FLEXIBLE CONNECTIONS AT EACH DUCT COLLAR ON THE UNIT, BELT GUARDS, AND ALL NECESSARY OPERATING CONTROLS.

HEATING CAPACITIES ARE BASED ON 200°F ENTERING WATER TEMPERATURE, A 20°F WATER TEMPERATURE DROP AND A MAXIMUM PRESSURE DROP OF 5' ACROSS THE COIL. COOLING CAPACITIES ARE BASED ON 45°F ENTERING WATER TEMPERATURE, A 10°F WATER TEMPERATURE RISE AND A MAXIMUM PRESSURE DROP OF 10' ACROSS THE COIL.

INSTALL NEW FILTERS IN ALL UNITS AFTER ALL DUCTWORK HAS BEEN COMPLETED AND PRIOR TO TESTING AND BALANCING. ALL UNITS SHALL BE DOUBLE WALL CONSTRUCTION WITH PERFORATED LINER IN FAN SECTIONS.

ALL UNITS SHALL COME COMPLETE WITH ULTRA LOW LEAK, OPPOSED BLADE DAMPERS WHEREVER APPLICABLE.

ALL FAN SYSTEMS SHALL BE IN COMPLIANCE WITH ASHRAE 90.1 STANDARDS.

ALL FLOOR MOUNTED AIR HANDLING UNITS SHALL BE MOUNTED ATOP 6" THICK CONCRETE HOUSEKEEPING PAD (FURNISHED AND INSTALLED BY THE CONTRACTOR.) ALL FLOOR OR STRUCTURAL FRAME MOUNTED AIR HANDLERS ARE TO BE INSTALLED ATOP NEOPRENE VIBRATION PADS (VIBRASYSTEMS, INC. MODEL VP SERIES, 1/2" THICK MINIMUM) ALONG THE ENTIRE PERIMETER OF UNIT AND AT CROSS BRACES UNDER UNIT. ALL SUSPENDED AIR HANDLING UNITS SHALL BE PROVIDED WITH EXTERNAL SUPPORT KIT BY RESPECTIVE MANUFACTURER.

STATIC PRESSURES SCHEDULED ABOVE ARE EXTERNAL TO UNIT. UNIT PRESSURE CALCULATIONS SHALL ASSUME A PRESSURE DROP FOR "DIRTY" FILTERS. FREQUENCY DRIVES FOR AIR HANDLING UNITS SHALL BE DANFOSS - GRAHAM MODEL VLT-HVAC ADJUSTABLE FREQUENCY DRIVE COMPLETE WITH THE FOLLOWING: MANUAL BYPASS. THREE CONTACTOR STYLE BYPASS, CIRCUIT BREAKER, FUSING, 4-20 mA SIGNAL FOLLOWER AND SHALL BE EQUIPPED TO INTERFACE WITH THE BMS. REFER TO CONTROL DIAGRAMS FOR

ADDITIONAL INFORMATION. PROVIDE ALL VARIABLE FREQUENCY DRIVES REQUIRED FOR PROPER OPERATION OF ALL EQUIPMENT. NOT ALL DRIVES ARE INDICATED ON THE FLOOR PLANS OR SCHEDULES. REFER TO

CONTROL SEQUENCES FOR ADDITIONAL REQUIRED LOCATIONS. ALL FANS AND FAN SYSTEMS SHALL BE IN COMPLIANCE WITH INTERNATIONAL ENERGY CODE (IECC) SECTION C403.8.3 FAN EFFICIENCY AS APPLICABLE. FANS AND FAN SYSTEMS SHALL HAVE A FAN ENERGY INDEX (FEI) MEETING OR EXCEEDING THAT INDICATED IN IECC. FANS AND FAN SYSTEMS SHALL HAVE ASSOCIATED LABELING FROM RESPECTIVE MANUFACTURER.

ALL DIRECT DRIVEN PLENUM FANS SHALL BE MOUNTED CENTERED ON THE HORIZONTAL AND VERTICAL DIMENSIONS. UNITS WITH MULTIPLE FANS SHALL HAVE INDIVIDUAL MOTOR 14. AIR HANDLING UNITS (AH-1 & AH-2) HAVE HOT-GAS REHEAT (HGRH) AND REQUIRE AN ADDITIONAL COIL IN UNIT. COORDINATE COIL REQUIREMENTS WITH THE MANUFACTURER. 🖓 🖊 1

AIR HANDLING UNIT DESCRIPTION: TOP TUNNEL: RETURN / FILTER SECTION, ERW SECTION W/ECONOMIZER AND NIGHT SETBACK DAMPERS, PLENUM EXHAUST FAN.

**NOMINAL** 

**IEER/EER** 

17.2 EER

16.2 EER

LINE SIZE

SECTION, DX COOLING COIL W/HGR COIL SECTION, PLENUM SUPPLY FAN SECTION. AH-2 TOP TUNNEL: RETURN / FILTER SECTION, ERW SECTION W/ECONOMIZER AND NIGHT SETBACK DAMPERS, PLENUM EXHAUST FAN. BOTTOM TUNNEL: OUTSIDE AIR / FILTER SECTION, ERW SECTION W/ECONOMIZER AND NIGHT SETBACK DAMPERS, HOT WATER COIL

SECTION, DX COOLING COIL W/HGR COIL SECTION, PLENUM SUPPLY FAN SECTION. FORWARD CURVE RETURN FAN SECTION, EXHAUST SECTION, FILTER/MIXING BOX, EXTERNAL FACE AND BYPASS SECTION, SMALL FACE

AREA HOT WATER COIL, ACCESS SECTION, LARGE FACE AREA DX COOLING COIL (FUTURE), FORWARD CURVE SUPPLY FAN SECTION FORWARD CURVE RETURN FAN SECTION. EXHAUST SECTION. FILTER/MIXING BOX. EXTERNAL FACE AND BYPASS SECTION. SMALL FACE AREA HOT WATER COIL, ACCESS SECTION, LARGE FACE AREA DX COOLING COIL (FUTURE), FORWARD CURVE SUPPLY FAN SECTION

BOTTOM TUNNEL: OUTSIDE AIR / FILTER SECTION, ERW SECTION W/ECONOMIZER AND NIGHT SETBACK DAMPERS, HOT WATER COIL

NOTES:

UNIT HEATING / COOLING ENTERING AIR TEMPS ARE BASED ON MIXED AIR TEMPS COMPRISING OF AIR FROM RECOVERY SECTION -VALUES SHALL BE ADJUSTED BASED ON ACTUAL ENERGY (SENSIBLE/LATENT) RECOVERED FROM AIRSTREAM. ENERGY RECOVERY VALUES BASED ON AIR TEMPS AS FOLLOWS - SUMMER: O.A. (92/76) E.A. (75/63) - WINTER: O.A. (-10/-11.4) E.A. (70/52). UNIT SHALL BE EQUIPPED WITH RECOVERY DEVICE CAPABLE OF 100% OF THE UNIT'S RATED AIRFLOW. REFER TO CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. UNIT SHALL BE PROVIDED WITH FILTERS AS REQUIRED FOR PROTECTION OF ENERGY RECOVERY DEVICE. AHU WINTER HEATING REQUIREMENTS SHALL BE BASED ON ENTHALPY WHEEL IN VARIABLE SPEED DEFROST OPERATION.

ALL ENERGY RECOVERY WHEELS SHALL BE TOTAL ENTHALPY TYPE, COMPLETE WITH VARIABLE SPEED (VFD) FROST CONTROL AND ROTATION DETECTOR WITH CONTACTS FOR EXTERNAL ALARM TO BMS SYSTEM.

ENERGY RECOVERY WHEELS SHALL HAVE A SYNTHETIC FIBER, POLY OR ALUMINUM SUBSTRATE WITH PERMANENTLY BONDED TRANSFER MEDIA. ETCHED/OXIDIZED ALUMINUM WHEELS WILL NOT BE ACCEPTED.

4. CONTRACTOR SHALL INSTALL ALL ADDITIONAL SENSORS, RELATED WIRING AND CONTROL COMPONENTS AS REQUIRED FOR PROPER INSTALLATION AND OPERATION OF UNIT.

ALL ENERGY RECOVERY WHEELS AND RELATED COMPONENTS SHALL BE UL / ETL LISTED. PERFORMANCE OF WHEEL SHALL BE CERTIFIED TO MEET ARI STANDARD 1060.

ADDITIONAL ELECTRICAL INFORMATION

CIRCUIT #1 - FS VFD-1 (on FS) - 460/3/60 - 8.7 FLA - MCA=10.88 - MOCP=15 CIRCUIT #2 - FE VFD-1 (on FE) - 460/3/60 - 6.6 FLA - MCA=8.25 - MOCP=15 CIRCUIT #3 - HW VFD-1 (on HW) - 460/3/60 - 0.44 FLA - MCA=0.55 - MOCP=15 CIRCUIT #4 - LIGHT SWITCH (on FS) - 120/1/60 - MOCP=15

> CIRCUIT #1 - FS VFD-1 (on FS) - 460/3/60 - 5.9 FLA - MCA=7.38 - MOCP=15 CIRCUIT #2 - FE VFD-1 (on FE) - 460/3/60 - 5.9 FLA - MCA=7.38 - MOCP=15 CIRCUIT #3 - HW VFD-1 (on HW) - 460/3/60 - 0.44 FLA - MCA=0.55 - MOCP=15

CIRCUIT #1 - FS VFD-1 (on FS) - 5HP - 460/3/60 - 5.9 FLA CIRCUIT #2 - FR VFD-1 (on FR) - 1.5 HP - 460/3/60 - 2.3 FLA CIRCUIT #3 - LIGHT SWITCH (on FS) - 120/1/60 - MOCP=15

CIRCUIT #4 - LIGHT SWITCH (on FS) - 120/1/60 - MOCP=15

CIRCUIT #1 - FS VFD-1 (on FS) - 25HP - 460/3/60 - 30.0 FLA CIRCUIT #2 - FR VFD-1 (on FR) - 7.5 HP - 460/3/60 - 11.4 FLA CIRCUIT #3 - LIGHT SWITCH (on FS) - 120/1/60 - MOCP=15

GAS FIRED BOILER SCHEDULE																
	MI	ВН			GAS											
( # )	INPUT	OUTPUT	TURNDOWN	INLET GAS PRESSURE	REGULATOR SIZE	FLUE	AIR INLET	HEIGHT	WIDTH	DEPTH	HP	PHASE	VOLTAGE	MAKE	MODEL	WEIGHT
1	2,000	1,874	15:1	7" WC	1-1/2"	8"	8"	80"	34"	61"	25 A	1	120 V	FULTON .	ENDURA EDR-2000	3,210
2	2,000	1,874	15:1	7" WC	1-1/2"	8"	8"	80"	34"	61"	25 A	1	120 V	FULTON .	ENDURA EDR-2000	3,210
3	2,000	1,874	15:1	7" WC	1-1/2"	8"	8"	80"	34"	61"	25 A	1	120 V	FULTON .	ENDURA EDR-2000	3,210
N	OTEC.	•	•	•			•		•			•	•	-	•	•

**ELECTRICAL** 

ALL ROOFTOP MOUNTED UNITS SHALL BE MOUNTED ATOP A FULL SIZED, PREFABRICATED 18" HIGH ROOF CURB WITH SHEET METAL CAP, SEALED WATER TIGHT. THE BOTTOM OF THE CURB SHALL BE SLOPED TO MATCH THE SLOPE OF THE ROOF TO PROVIDE FOR A LEVEL INSTALLATION OF THE UNIT. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL UNITS SHALL BE COMPLETE WITH SUCTION LINE ACCUMULATORS, LIQUID AND SUCTION LINE SERVICE VALVES, CRANKCASE HEATERS, HIGH AND LOW PRESSURE CUTOFFS, COMPRESSOR

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL COORDINATION OF ALL ELECTRICAL REQUIREMENTS FOR ALL UNITS. PROVIDE MANUFACTURER'S WRITTEN DATA FOR EACH CONDENSING UNIT PRIOR TO SUBMITTAL OF ANY ELECTRICAL EQUIPMENT FOR REVIEW. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY CHANGES TO ELECTRICAL FEEDERS OR CIRCUIT BREAKERS

ALL CONDENSING UNITS FOR USE WITH VAV AIR HANDLERS SHALL BE EQUIPPED WITH FACTORY CONTROLS FOR VAV SERVICE. CONTROLS SHALL STAGE COMPRESSORS AND CONDENSER FANS TO

ALL REFRIGERANT LINES SHALL BE SIZED AND INSTALLED AS PER THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE MANUFACTURER APPROVED PIPING DIAGRAM PRIOR TO INSTALLATION OF ALL UNITS. ALL LINES SHALL BE INSULATED WITH 1" THICK CLOSED CELL INSULATION. LINES INSTALLED OUTSIDE OF THE BUILDING

ALL UNITS SHALL BE COMPLETE WITH ALL OPERATING CONTROLS COMPONENTS FOR A FULLY FUNCTIONAL SYSTEM TO WHICH IT IS INSTALLED. REFERENCE PLANS AND CONTROLS SEQUENCES

FOR ADDITIONAL INFORMATION. ALL UNITS SHALL BE CAPABLE OF PROVIDING AN ALARM CONDITION TO THE BUILDING AUTOMATION SYSTEM (BAS). WHERE FULL INTERCONNECT IS INDICATED IN

SCHEDULE ABOVE, ALL UNITS SHALL BE COMPLETE WITH COMMUNICATIONS CARD (LON OR BACNET) AS REQUIRED FOR COMMUNICATION WITH BUILDING CONTROLS SYSTEM. COMMUNICATIONS PROTOCOL SHALL BE CAPABLE OF COMMUNICATING ALL POINTS INDICATED IN THE CONTROLS SEQUENCES. THE SYSTEM SHALL BE CAPABLE TO ADJUST ALL SETPOINTS FROM THE BUILDING

CONTROL SYSTEM COMPUTER. REFER TO CONTROL SEQUENCES FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED COMPONENTS WITH ASSOCIATED

MANUFACTURERS AND CONTRACTORS PRIOR TO RELEASE OF EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT AND COMPONENTS AS REQUIRED TO PROVIDE A

SYSTEM CAPABLE OF ALL FUNCTIONS AND POINTS INDICATED IN THE CONTROLS SEQUENCES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR MODIFICATIONS REQUIRED TO PROVIDE ALL

CONDENSING UNITS (CU-AH1 & CU-AH2) HAVE HOT-GAS REHEAT (HGRH) AND REQUIRE AN ADDITIONAL COIL IN ASSOCIATED AHU AND AN ADDITIONAL LINE SET TO HGRH COIL. COORDINATE NUMBER

ALL CONDENSING UNITS FOR USE WITH MULTIZONE AIR HANDLERS SHALL BE EQUIPPED WITH HOT GAS BYPASS AND ALL NECESSARY OPERATING CONTROLS ON THE LEAD CIRCUIT.

| VOLTAGE | PHASE

ALL UNITS SHALL BE SUPPLIED WITH ALL COMPONENTS AS SPECIFIED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

START ASSIST CAPACITOR(S) AND RELAYS, LONG LINE LENGTH ACCESSORIES (AS APPLICABLE) AND LOW OIL PRESSURE CUTOFF.

460

PROVIDE LOW SOUND FAN OPTION AND COMPRESSOR SOUND BLANKETS FOR ALL UNITS.

ENVELOPE SHALL BE JACKETED WITH SOLVENT WELDED PVC OR ALUMINUM JACKETING.

**CONDENSING UNIT SCHEDULE** 

MODEL

CFA-011

CFA-007

MAKE

BOILER SHALL COME COMPLETE WITH THE FOLLOWING FIELD INSTALLED COMPONENTS, ALARM BELL, FLOW SWITCH, PRESSURE/TEMPERATURE GAUGES, MANUAL RESET LOW WATER CUT-OFF, GAS SHUT-OFF COCKS AND GAS PRESSURE GAUGE. BOILER TO COME COMPLETE WITH THE FOLLOWING FACTORY INSTALLED OPTIONS, DIGITAL KEYPAD DISPLAY MODULE, GAS VALVE TRAIN, AND ALL NECESSARY OPERATORS SWITCHES. REFER TO SPECIFICATIONS FOR

ADDITIONAL FACTORY INSTALLED COMPONENTS. HEATING PLANT SHALL BE COMPLETE WITH MICROPROCESSOR CONTROL PANEL: PROVIDE ONE MICROPROCESSOR SEQUENCING SYSTEM TO CONTROL BOILERS AND PRIMARY PUMPS. CONTROL PANEL SHALL INCLUDE AN INTUITIVE, EASILY CONFIGURABLE TOUCHSCREEN INTERFACE MOUNTED IN A NEMA 4X

FIBERGLASS ENCLOSURE, PANEL SHALL HAVE ABILITY TO LEAD/LAG BOILERS IN FITHER SEQUENTIAL OR PARALLEL OPERATION, HAVE OUTDOOR AIR RESET FUNCTIONALITY AND BE ABLE TO COMMUNICATE WITH A BUILDING AUTOMATION / MANAGEMENT SYSTEM USING MODBUS, BACNET, LONWORKS OR N2 PROTOCOLS. THE CONTROL PANEL SHALL INTERFACE DIRECTLY TO EACH BOILER'S PRIMARY PUMP. UPON A CALL FOR HEAT IT SHALL ENABLE THE PUMP AND MONITOR ITS FLOW STATUS. AFTER HEAT LOAD HAS BEEN SATISFIED AND A CONFIGURABLE TIME DELAY HAS ELAPSED, THE BOILER PUMP SHALL BE DISABLED PANEL SHALL ALLOW FOR MULTIPLE SETPOINT MODES INCLUDING; OUTDOOR AIR RESET, REMOTE SETPOINT (4-20mA OR 0-10VDC), BAS/BMS COMMUNICATION PROTOCOL AND MANUAL SETPOINT THROUGH THE TOUCHSCREEN. PANEL SHALL ALLOW FOR AUTOMATIC SWITCHOVER TO LOWER BOILER OPERATING TEMPERATURES WHEN BUILDING IS UNOCCUPIED. AN ALARM STATUS AND HISTORY FEATURE SHALL PROVIDE A DATE AND TIME STAMP OF ANY RECENT ALARM

CONDITIONS. SEQUENCING PANEL SHALL BE SUPPLIED LOOSE AND INCLUDE ALL NECESSARY WATER AND AIR TEMPERATURE SENSORS REQUIRED FOR PROPER OPERATION. CONTRACTOR SHALL INSTALL CONTROL PANEL UNIT PER MANUFACTURER'S WRITTEN RECOMMENDATIONS AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL INTERCONNECTING WIRING AND COMPONENTS AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO CONTROL SEQUENCES FOR ADDITIONAL INFORMATION.

1,100

PROVIDE HAIL GUARDS FOR ALL UNITS UNLESS NOTED OTHERWISE.

MOUNT ALL UNITS ATOP SPRING TYPE VIBRATION ISOLATORS.

FUNCTIONS AND POINTS AS INDICATED IN THE SEQUENCES.

OF LINE SETS AND SIZES OF LINE SETS WITH THE MANUFACTURER.

MAINTAIN A CONSTANT DISCHARGE TEMPERATURE.

CAPACITIES ARE BASED ON 95°F OUTDOOR AIR.

BOILER INTAKE AND FLUE PIPE SHALL BE TYPE AL29-4C WITH APPROVED TERMINAL CAPS.

CONTRACTOR SHALL PROVIDE A 6" THICK CONCRETE SERVICE PAD FOR EACH BOILER. BOILER WEIGHTS INDICATED ABOVE DO NOT ACCOUNT FOR THIS

CAPACITY WEIGHT

				AIR S	EPARATOR SCHEDULE			
AS #	TYPE	CAPACITY	STRAINER FREE AREA (SQFT)	INLET-OUTLET SIZE	AIR FITTING SIZE	BLOWDOWN CONNNECTION SIZE	MAKE	MODEL
1	AS	700 GPM	220	6"	1 1/2"	2"	BELL&GOSSET	ROLAIRTROL, R-8
	NOTEC							

AIR SEPARATOR SHALL COME COMPLETE WITH A CAPPED, HOSE-END DRAIN DOWN BALL VALVE AT THE BLOW DOWN CONNECTION.

ADEQUATE CLEARANCE SHALL BE GIVEN FOR STRAINER REMOVAL AND CLEANING, BELOW

AIR SEPARATOR SHALL BE FIELD INSULATED WITH VAPOR-PROOF INSULATION. REFER TO

SPECIFICATIONS FOR ADDITIONAL INFORMATION.

	BLADDER EXPANSION TANKS SCHEDULE  ACCEPTANCE VOLUME  ROTTOM TARRING MAXIMUM UNIT									
ET #	DIAMETER	LENGTH	ACCEPTANCE VOLUME (GALLONS)	TOP TAPPING SIZE	BOTTOM TAPPING SIZE	MAXIMUM UNIT WEIGHT (LBS)	MAKE	MODEL		
1	30Ø	5' - 4"	158	1 1/2"	1"	1850	BELL & GOSSETT	B-600		

EXPANSION TANK SHALL COME COMPLETE WITH A CAPPED, HOSE-END DRAIN DOWN BALL

PROVIDE CLEARANCE ABOVE TANK FOR BLADDER REMOVAL.

EXPANSION TANK SHALL BE FIELD INSULATED WITH VAPOR-PROOF INSULATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ALL TANKS SHALL BE ASME RATED AND SHALL BEAR ASSOCIATED STAMPING. EXPANSION TANK SHALL CAPABLE OF BEING INSTALLED HORIZONTALLY WITH THE SYSTEM CONNECTION LOCATED BELOW THE HORIZONTAL CENTERLINE OF THE TANK.

VALVE AT BOTTOM SYSTEM CONNECTION. INSTALL PRESSURE GAUGE AT TOP SYSTEM

		LINE	SIZE											
1	MECHANICAL COOLING STAGES (MIN)	SUCTION	LIQUID	BAS INTERCONNECT						HVAC	PUMP SC	HEDULE		
	25-100% (VARIABLE) 25-100%	0.88"	0.5"	YES YES	P #	DESCRIPTION	GPM	HEAD FEET	НР	PHASE	VOLT	RPM	MAKE	MODEL
<u>-</u>	(VARIABLE)	1				LINE RECIRCULATION PUMP	27	25	0.5	3Ø	460 V	1,765	BELL & GOSSETT	SERIES e90 ECM 1.25AAB
	•	/				LINE RECIRCULATION PUMP I-2 HW COIL	21	25	0.5	3Ø	460 V	3,775	BELL & GOSSETT	SERIES e90 ECM 1.25AAB
	BSHALL					LINE RECIRCULATION PUMP I-3 HW COIL	21	25	0.5	3Ø	460 V	1,765	BELL & GOSSETT	SERIES e90 ECM 1.25AAB
S	SOR				1	LINE RECIRCULATION PUMP I-4 HW COIL	116	25	1.5	3Ø	460 V	1,800	BELL & GOSSETT	SERIES e80 3x3x7C
						LINE RECIRCULATION PUMP	140	10	3/4	3Ø	460 V	1200	BELL & GOSSETT	SERIES e80 4x4x7B

ALL PUMPS SHALL BE COMPLETE WITH FLEXIBLE PIPE CONNECTIONS ON BOTH THE SUCTION AND DISCHARGE SIDES OF THE PUMPS.

REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION FOR ALL EQUIPMENT. AM MODEL VLT-HVAC WING: MANUAL BYPASS, THREE ) ma signal follower and

ADDITIONAL INFORMATION. PROVIDE ALL VARIABLE FREQUENCY DRIVES REQUIRED FOR PROPER OPERATION OF ALL EQUIPMENT. NOT ALL DRIVES ARE INDICATED ON THE FLOOR PLANS OR SCHEDULES. REFER TO CONTROL SEQUENCES FOR ADDITIONAL REQUIRED LOCATIONS.

P #	DESCRIPTION	GPM	HEAD FEET	HP	PHASE	VOLT	RPM	MAKE	MODEL	WEIGHT (LBS)	VFD	PARALLEL OPERATION
AH1	IN-LINE RECIRCULATION PUMP AH-1 HW COIL	27	25	0.5	3Ø	460 V	1,765	BELL & GOSSETT	SERIES e90 ECM 1.25AAB	60	ECM	NO
AH2	IN-LINE RECIRCULATION PUMP AH-2 HW COIL	21	25	0.5	3Ø	460 V	3,775	BELL & GOSSETT	SERIES e90 ECM 1.25AAB	60	ECM	NO
AH3	IN-LINE RECIRCULATION PUMP AH-3 HW COIL	21	25	0.5	3Ø	460 V	1,765	BELL & GOSSETT	SERIES e90 ECM 1.25AAB	60	ECM	NO
AH4	IN-LINE RECIRCULATION PUMP AH-4 HW COIL	116	25	1.5	3Ø	460 V	1,800	BELL & GOSSETT	SERIES e80 3x3x7C	175	VFD	NO
B1	IN-LINE RECIRCULATION PUMP BOILER B-2	140	10	3/4	3Ø	460 V	1200	BELL & GOSSETT	SERIES e80 4x4x7B	280	VFD	NO
B2	IN-LINE RECIRCULATION PUMP BOILER B-1	140	10	3/4	3Ø	460 V	1200	BELL & GOSSETT	SERIES e80 4x4x7B	280	VFD	NO
В3	IN-LINE RECIRCULATION PUMP BOILER B-3	140	10	3/4	3Ø	460 V	1200	BELL & GOSSETT	SERIES e80 4x4x7B	280	VFD	NO
S1	BASE MOUNTED END SUCTION PUMP SYSTEM PUMP	270	100	10	3Ø	460 V	3600	BELL & GOSSETT	SERIES 1510 2.5AC	205	VFD	YES 50%
S2	BASE MOUNTED END SUCTION PUMP SYSTEM PUMP	270	100	10	3Ø	460 V	3600	BELL & GOSSETT	SERIES 1510 2.5AC	205	VFD	YES 50%

3.	FREQUENCY DRIVES FOR PUMPS SHALL BE DANFOSS - GRAHAM MODEL VLT-HVAC
	ADJUSTABLE FREQUENCY DRIVE COMPLETE WITH THE FOLLOWING: MANUAL BYPASS, THR
	CONTACTOR STYLE BYPASS, CIRCUIT BREAKER, FUSING, 4-20 mA SIGNAL FOLLOWER AND
	SHALL BE EQUIPPED TO INTERFACE WITH THE BMS. REFER TO CONTROL DIAGRAMS FOR
	ADDITIONAL INFORMATION

RELIEF VENT SCHEDULE								
	DESCRIPTION	CFM	MAX dP	THROAT AREA	THROAT VELOCITY	CURB HEIGHT	MAKE	MODEL
	GRAVITY RELIEF VENT AIR HANDLER AH-1	3450 CFM	0.05 in-wg	6 SQFT	545 FPM	1' - 6"	GREENHECK	FGR-24x38
	GRAVITY RELIEF VENT AIR HANDLER AH-2	2670 CFM	0.05 in-wg	5 SQFT	534 FPM	1' - 6"	GREENHECK	FGR-24x30
	GRAVITY RELIEF VENT AIR HANDLER AH-3	2700 CFM	0.05 in-wg	5 SQFT	540 FPM	1' - 6"	GREENHECK	FGR-24x30
	GRAVITY RELIEF VENT AIR HANDLER AH-4	17000 CFM	0.05 in-wg	34 SQFT	500 FPM	1' - 6"	GREENHECK	ESD-635PD-70x70

ALL RELIEF VENTILATORS SHALL BE COMPLETE WITH PREFABRICATED ROOF CURB, BIRD SCREEN AND GRAVITY BACKDRAFT DAMPER INSTALLED IN RISER THROUGH ROOF. BACKDRAFT DAMPER SHALL BE RUSKIN MODEL CBD4 WITH ALUMINUM FRAME AND COUNTERBALANCED ALUMINUM BLADES.

### MECHANICAL EQUIPMENT

RPH\ ROOF PENETRATION HOUSING

 $\setminus$  M / ROOF PENETRATION HOUSINGS AWI "MEDIUM" VAULT MODEL AWI-201412, 20.5" x 14.5" x 12", FOUR-PIECE CONFIGURATION CONSISTING OF A REMOVEABLE VANDAL RESISTANT LID, MIDDLE HOUSING, INSULATION EXTENSION (ICE) AND WIDE FLANGED (WATER TIGHT) CURB. UNIT SHALL BE CONSTRUCTED OF HEAVY GAUGE POWDER COATED, WELDED ALUMINUM WITH GASKETS AND STAINLESS-STEEL HARDWARE. UNIT SHALL BE TESTED TO MEET ICC-500 AND FEMA 320/361 STANDARDS AND TESTED TO COMPLY WITH 2018 ICC ENERGY CODE C402, SECTION ASTM E2178-11 AND ASTM E2357-11. USE ONLY THE MANUFACTURER'S RPH EXIT SEALS FOR ALL PENETRATIONS THROUGH SIDES OF HOUSING. PROVIDE WITH 20-YEAR INSURED WARRANTY.

<b>\</b>							
TAG	MAKE	MODEL NUMBER	DIFFUSER SIZE	MOUNTING TYPE	DAMPER TYPE	APPLICATI ON	ACCESSORIES
A	TITUS	OMNI	24" x 24"	CEILING	MVD	SUPPLY	6"Ø NK
В	TITUS	OMNI	24" x 24"	CEILING	MVD	SUPPLY	8"Ø NK
C	TITUS	T3SQ-2	24" x 24"	CEILING	MVD	SUPPLY	6"Ø NK, DIGITAL VAV DIFFUSER
D	TITUS	300RL	ON PLANS	DUCT	AG-15	SUPPLY	
E	TITUS	XC-310	18"Ø	DUCT	AG-75	SUPPLY	10"Ø NK
F	TITUS	350RL	ON PLANS	CEILING	AG-15	RETURN	LAY-IN OR MOUNTING FRAME, SEE PLANS FOR TYPE OF MOOUNTING
G	TITUS	350RL	ON PLANS	CEILING	AG-15	RETURN	SURFACE MOUNTING FRAME
H	TITUS	350RL	ON PLANS	DUCT	AG-15	RETURN	
\	TITUS	350RL	ON PLANS	CEILING	AG-15	EXHAUST	LAY-IN OR SURFACE MOUNTING FRAME, SEE PLANS FOR TYPE OF MOUNTING
>	NOTES:		•				LEGEND

1/1

**DIFFUSER SCHEDULE** 

COLOR TO BE SELECTED BY THE ARCHITECT.

DAMPER TO BE MANUAL VOLUME DAMPER MOUNTED AT BRANCH TAKE-OFF UNLESS NOTED

VERIFY MOUNTING TYPE, EITHER LAY-IN OR MOUNTING FRAME, WITH ARCHITECTURAL

REFLECTED CEILING PLANS. WHERE A SOUARE TO ROUND THROAT ADAPTER IS UTILIZED FOR CONNECTION TO A DIFFUSER OR GRILLE, THE PLENUM CREATED ABOVE THE SQUARE NECK CONNECTION SHALL HAVE A FREE / CLEAR HEIGHT OF 4" (MINIMUM - VERIFY AVAILABLE SPACE WITH LOCATION AND CONSTRUCTION) FROM THE TOP OF THE DIFFUSER, GRILLE AND/OR DAMPER TO THE BOTTOM OF THE PLENUM / INSULATION. PLENUM SHALL BE COMPLETE WITH 1/2" (OR GREATER) INSULATION LINER (REFERENCE DETAILS). ALTERNATIVELY, THE PLENUM MAY BE EXTERNALLY INSULATED (1" THINK MINIMUM) IN THE FIELD. ALL EXPOSED INSULATION ENDS

SHALL BE SEALED WITH MASTIC (LISTED FOR INSTALLATION IN AN AIRSTREAM), METAL

NOSING OR TAPE (TAPE FOR SEALING OF EXTERNAL INSULATION ONLY).

PLY	6"Ø NK	, DIGITAL VAV DIFFUSER		1-3
PLY				1-4
PLY	10"Ø NI	<	7	1-5
RN	LAY-IN	OR MOUNTING FRAME, SEE PLANS FOR TYPE OF MOOUNTING	}	
RN	SURFA	CE MOUNTING FRAME		1.
RN			3	
JST	LAY-IN	OR SURFACE MOUNTING FRAME, SEE PLANS FOR TYPE OF MOUNTING		2. 3.
		<u>LEGEND:</u>		4.
		APPLICATION SUPPLY TAG	3	5.

$ \zeta $						VAV	BOX SCHEE	DULE - AH-1				
1	VAV		AIRFLOW			HEATIN	IG COIL		DUCT CO	NNECTION		
1	#	MAX	MIN	APD	BTU	PIPE	GPM	WPD	INLET	OUTLET	MAKE	MODEL
3	1-1	425	145	0.50"	15	3/4"	1.0	1'	6"ø	12"x8"	TITUS	DESV 06
	1-2	2,070	1,630	0.35"	73	1"	5.0	2'	6"ø	24"x18"	TITUS	DESV 16
	1-3	500	500	0.30"	18	3/4"	1.5	1'	6"ø	12"x10"	TITUS	DESV 08
3	1-4	355	120	0.35"	13	3/4"	1.0	1'	6"ø	12"x8"	TITUS	DESV 06
	1-5	100	35	0.05"	4	3/4"	0.5	1'	6"ø	12"x8"	TITUS	DESV 04

HEATING CAPACITIES ARE BASED ON 150°F ENTERING WATER TEMPERATURE, 120°F LEAVING WATER TEMPERATURE, 55°F ENTERING AIR TEMPERATURE, AND 95°F LEAVING AIR

TEMPERATURE. ALL COILS SHALL BE 2 ROW (MINIMUM), MULTI CIRCUIT UNLESS NOTED OTHERWISE. ALL VAV BOXES SHALL BE SUSPENDED FROM STRUCTURE WITH UNISTRUT AND HANGER

RODS UNLESS NOTED OTHERWISE. ALL BOXES SHALL HAVE BALL VALVE, CONTROL VALVE & STRAINER IN THE HWS LINE AND A CIRCUIT SETTER & BALL VALVE IN THE HWR LINE. ALL VAV BOXES SHALL HAVE AN ACCESS DOOR WITH DUAL CAMLOCK LATCHES UPSTREAM OF THE COIL, PROVIDE AN ADDITIONAL INSULATED ACCESS DOOR WITH DUAL CAMLOCK LATCHES

LATCH WILL ALSO MEET THE INTENT. ALL REHEAT COILS SHALL BE EXTERNALLY WRAPPED WITH 1 1/2" THICK FIBERGLASS INSULATION WITH VAPOR BARRIER.

MOUNTED IN THE DUCTWORK DOWNSTREAM OF EACH COIL. HINGED WITH SINGLE CAMLOCK

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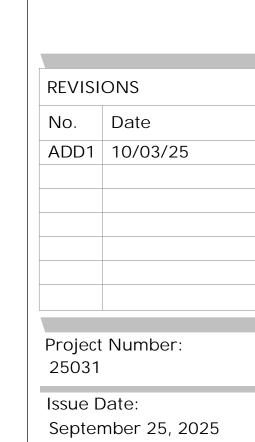
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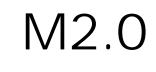
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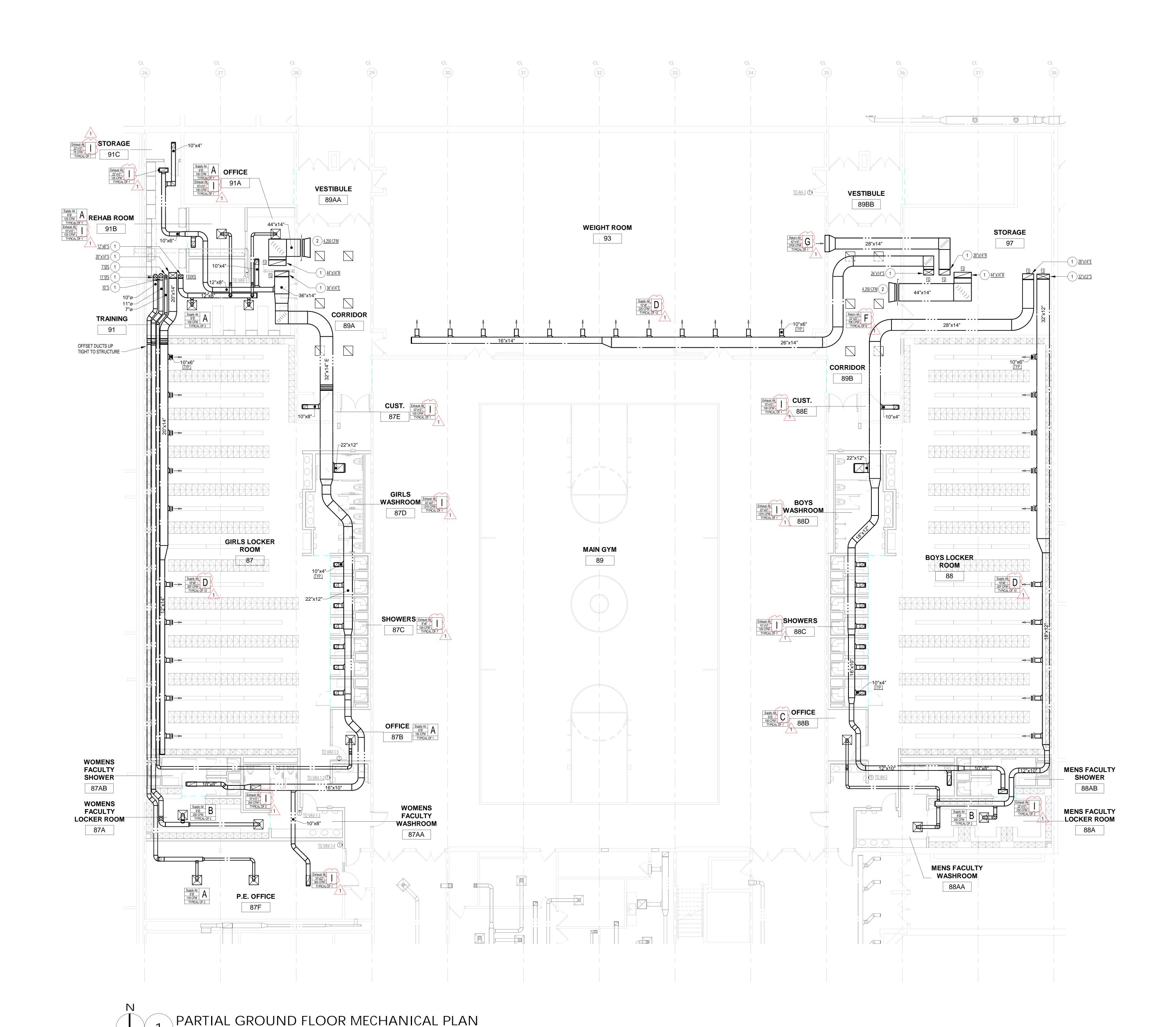
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JMB Sheet Title: PARTIAL GROUND FLOOR MECHANICAL PLAN

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**GENERAL NOTES** 

1. INSTALL FIRE DAMPERS IN EVERY DUCT PASSING THROUGH A FIRE WALL, SMOKE BARRIER, EQUIPMENT ROOM WALL OR FLOOR, DUCT SHAFT PENETRATIONS AND ANY OTHER PLACE WHERE REQUIRED BY ANY AND ALL GOVERNING CODES. INSTALL AN ACCESS DOOR IN DUCTWORK AT EACH FIRE DAMPER. FIRE DAMPERS SHALL BE INSTALLED AS PER LATEST U.L. AND F.I.A. REQUIREMENTS. ALL FIRE DAMPERS SHALL BE RATED FOR DYNAMIC SERVICE UNLESS NOTED OTHERWISE. EXAMINE ALL EXISTING FIRE DAMPERS AND PROVIDE NEW FUSIBLE LINKS FOR PROPER OPERATION. FIRE DAMPERS INSTALLED IN SUPPLY DUCTWORK WITH A PRESSURE CLASS GREATER THAN 1" W.C. SHALL BE SEALED/WELDED TYPE. ALL DAMPERS TO BE CONFIGURED WITH BLADES OUT OF THE AIRSTREAM (TYPE "B" OR "C"). WHERE DAMPER SIZES ARE GREATER THAN AVAILABLE FOR CURTAIN TYPE DAMPERS, HIGH PERFORMANCE LOW-LOSS (LOW PRESSURE DROP) MULTI-BLADE TYPE DAMPERS MAY BE UTILIZED. PROVIDE DOCUMENTATION OF INSPECTION OF FIRE DAMPERS IN ACCORDANCE WITH THE FIRE AND SMOKE DAMPER INSPECTION ACT 425 ILCS 13.

### **KEY NOTES**

(1) <u>DUCT ROUTING</u>

ROUTE DUCT UP THROUGH NEW FLOOR PENETRATION. PROVIDE FIRE DAMPER IN DUCT AT FLOOR PENETRATION.

2 DUCT ROUTING - PLENUM RETURN STUB RETURN DUCT ABOVE CEILING AND TERMINATE WITH 3" FLARED OPENING. PROVIDE BALANCING DAMPER.

2026 LOCKER RENOVATIONS & MECHANICAL **IMPROVEMENTS** 

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PARTIAL FIRST FLOOR MECHANICAL PLAN

### **GENERAL NOTES**

1. INSTALL FIRE DAMPERS IN EVERY DUCT PASSING THROUGH A FIRE WALL, SMOKE BARRIER, EQUIPMENT ROOM WALL OR FLOOR, DUCT SHAFT PENETRATIONS AND ANY OTHER PLACE WHERE REQUIRED BY ANY AND ALL GOVERNING CODES. INSTALL AN ACCESS DOOR IN DUCTWORK AT EACH FIRE DAMPER. FIRE DAMPERS SHALL BE INSTALLED AS PER LATEST U.L. AND F.I.A. REQUIREMENTS. ALL FIRE DAMPERS SHALL BE RATED FOR DYNAMIC SERVICE UNLESS NOTED OTHERWISE. EXAMINE ALL EXISTING FIRE DAMPERS AND PROVIDE NEW FUSIBLE LINKS FOR PROPER OPERATION. FIRE DAMPERS INSTALLED IN SUPPLY DUCTWORK WITH A PRESSURE CLASS GREATER THAN 1" W.C. SHALL BE SEALED/WELDED TYPE. ALL DAMPERS TO BE CONFIGURED WITH BLADES OUT OF THE AIRSTREAM (TYPE "B" OR "C"). WHERE DAMPER SIZES ARE GREATER THAN AVAILABLE FOR CURTAIN TYPE DAMPERS, HIGH PERFORMANCE LOW-LOSS (LOW PRESSURE DROP) MULTI-BLADE TYPE DAMPERS MAY BE UTILIZED. PROVIDE DOCUMENTATION OF INSPECTION OF FIRE DAMPERS IN ACCORDANCE WITH THE FIRE AND SMOKE DAMPER INSPECTION ACT 425 ILCS 13.

### **KEY NOTES**

1 DUCT ROUTING

*\_*−4"ø HWS

∕\_4"ø HWR

ROUTE DUCT UP THROUGH NEW FLOOR PENETRATION. PROVIDE FIRE DAMPER IN DUCT AT FLOOR PENETRATION.

2 DUCT ROUTING ROUTE DUCT DOWN THROUGH NEW FLOOR PENETRATION. PROVIDE FIRE

DAMPER IN DUCT AT FLOOR PENETRATION. (3) PIPE ROUTING - 4" HWS/R

ROUTE 4" HWS & HWR PIPING THROUGH NEW FLOOR PENETRATION INTO MECHANICAL ROOM ABOVE.

(4) <u>MECHANICAL EQUIPMENT - VAV</u> FURNISH AND INSTALL NEW VAV BOX FROM STRUCTURE INDEPENDENT OF DUCTWORK OR PIPING. EXTEND SUPPLY DUCTWORK FOR CONNECTION WITH INLET AND OUTLET OF VAV UNIT. EXTEND 3/4" HWS & HWR PIPING FOR CONNECTION WITH COIL.

5 <u>MECHANICAL EQUIPMENT - VAV</u> FURNISH AND INSTALL NEW VAV BOX FROM STRUCTURE INDEPENDENT OF DUCTWORK OR PIPING. EXTEND SUPPLY DUCTWORK FOR CONNECTION WITH INLET AND OUTLET OF VAV UNIT. EXTEND 1" HWS & HWR PIPING FOR CONNECTION WITH COIL.

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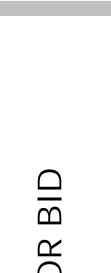
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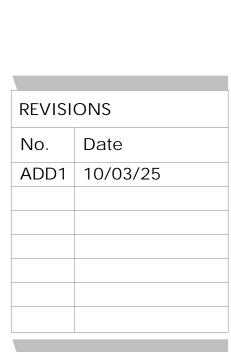
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PARTIAL SECOND FLOOR

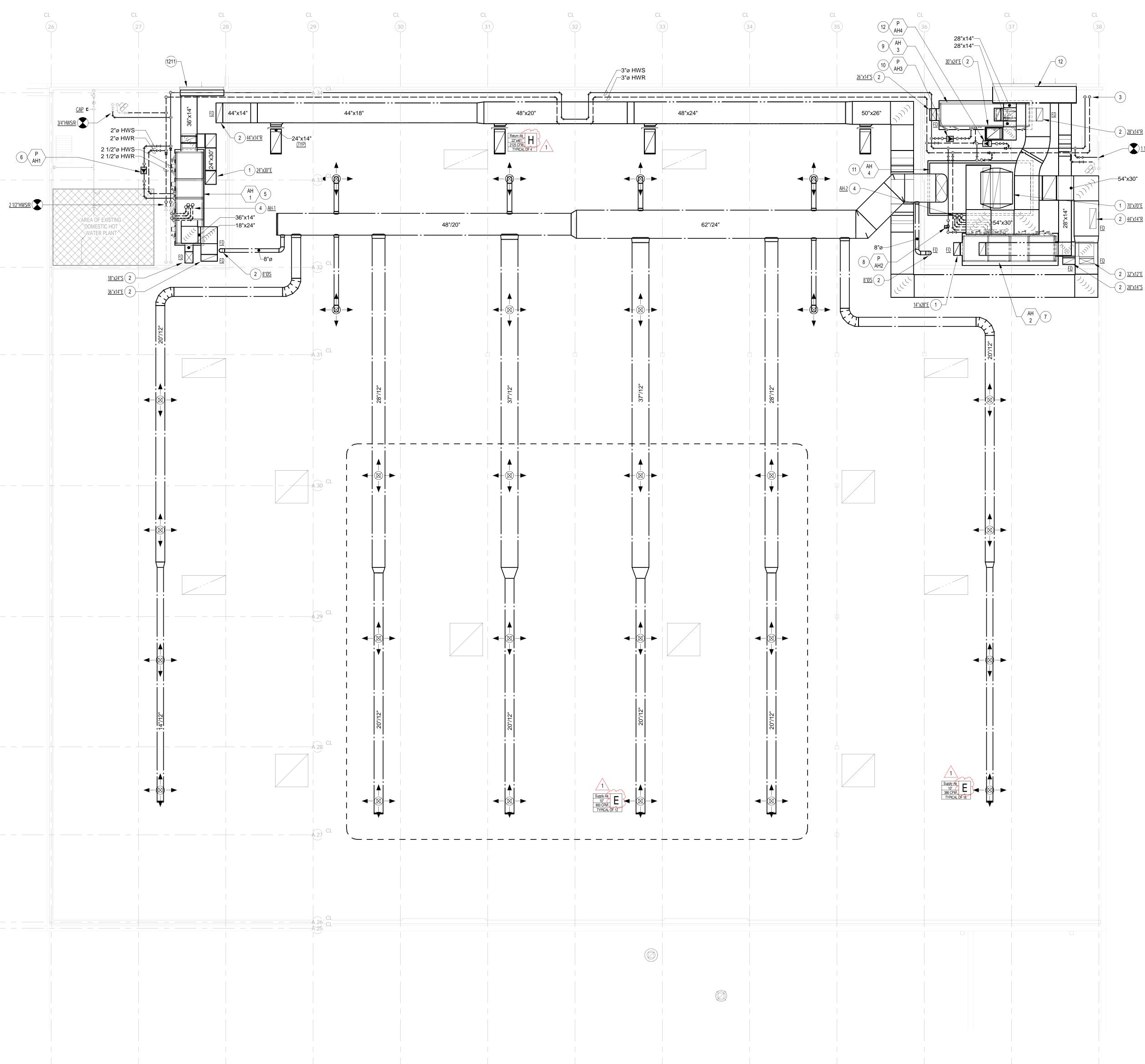
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PARTIAL SECOND FLOOR MECHANICAL PLAN

**GENERAL NOTES** 

1. INSTALL FIRE DAMPERS IN EVERY DUCT PASSING THROUGH A FIRE WALL, SMOKE BARRIER, EQUIPMENT ROOM WALL OR FLOOR, DUCT SHAFT PENETRATIONS AND ANY OTHER PLACE WHERE REQUIRED BY ANY AND ALL GOVERNING CODES. INSTALL AN ACCESS DOOR IN DUCTWORK AT EACH FIRE DAMPER. FIRE DAMPERS SHALL BE INSTALLED AS PER LATEST U.L. AND F.I.A. REQUIREMENTS. ALL FIRE DAMPERS SHALL BE RATED FOR DYNAMIC SERVICE UNLESS NOTED OTHERWISE. EXAMINE ALL EXISTING FIRE DAMPERS AND PROVIDE NEW FUSIBLE LINKS FOR PROPER OPERATION. FIRE DAMPERS INSTALLED IN SUPPLY DUCTWORK WITH A PRESSURE CLASS GREATER THAN 1" W.C. SHALL BE SEALED/WELDED TYPE. ALL DAMPERS TO BE CONFIGURED WITH BLADES OUT OF THE AIRSTREAM (TYPE "B" OR "C"). WHERE DAMPER SIZES ARE GREATER THAN AVAILABLE FOR CURTAIN TYPE DAMPERS, HIGH PERFORMANCE LOW-LOSS (LOW PRESSURE DROP) MULTI-BLADE TYPE DAMPERS MAY BE UTILIZED. PROVIDE DOCUMENTATION OF INSPECTION OF FIRE DAMPERS IN ACCORDANCE WITH THE FIRE AND SMOKE DAMPER INSPECTION ACT 425 ILCS 13.

### **KEY NOTES**

(1) <u>DUCT ROUTING</u>

ROUTE DUCT UP THROUGH NEW ROOF PENETRATION AND EXTEND FOR CONNECTION WITH VENTILATOR ABOVE.

(2) <u>DUCT ROUTING</u> ROUTE DUCT DOWN THROUGH NEW FLOOR PENETRATION. PROVIDE FIRE

DAMPER IN DUCT AT FLOOR PENETRATION. (3) PIPE ROUTING - 4" HWS/R

CONTINUE 4" HWS & HWR PIPING UP FROM FLOOR BELOW.

(4) <u>PIPE ROUTING - REFRIGERANT PIPING</u> CONTINUE REFRIGERANT PIPING DOWN FROM ROOF PORTAL AND EXTEND FOR CONNECTION WITH ASSOCIATED AIR HANDLING UNIT DX COIL AND MAKE ALL CONNECTIONS. REFER TO THE MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR NUMBER OF AND SIZE OF LINES SET FROM CU TO

( 5 ) MECHANICAL EQUIPMENT - AH-1

FURNISH AND INSTALL NEW AIR HANDLING UNIT ATOP 6" TALL CONCRETE HOUSEKEEPING PAD. EXTEND 24"x18" SUPPLY, 36"x14" EXHAUST (IN), 36"x14" FRESH AIR INTAKE, AND 30"X24" EXHAUST (OUT) DUCTWORK TO UNIT AND MAKE CONNECTIONS. EXTEND 2" HWS & HWR PIPING TO UNIT COIL AND MAKE CONNECTIONS. EXTEND REFRIGERANT (SIZE AND NUMBER OF LINES SET AS PER THE MANUFACTURER) TO UNIT COIL AND MAKE CONNECTION. EXTEND TRAPPED CONDENSATE SIZED PER THE MANUFACTURER'S WRITTEN RECOMMENDATIONS TO INDIRECTLY SPILL INTO NEAREST FLOOR

(6) MECHANICAL EQUIPMENT - P-AH1 FURNISH AND INSTALL NEW COIL CIRCULATION PUMP FROM STRUCTURE INDEPENDENT OF PIPING. EXTEND 2" HWS PIPING TO INLET AND OUTLET OF

PUMP AND MAKE CONNECTIONS.

7 MECHANICAL EQUIPMENT - AH-2 FURNISH AND INSTALL NEW AIR HANDLING UNIT ATOP 6" TALL CONCRETE HOUSEKEEPING PAD. EXTEND 28"x14" SUPPLY, 32"x12" EXHAUST (IN), 28"x14" FRESH AIR INTAKE, AND 28"X24" EXHAUST (OUT) DUCTWORK TO UNIT AND MAKE CONNECTIONS. EXTEND 2" HWS & HWR PIPING TO UNIT COIL AND MAKE CONNECTIONS. EXTEND REFRIGERANT (SIZE AND NUMBER OF LINES SET AS PER THE MANUFACTURER) TO UNIT COIL AND MAKE CONNECTION. EXTEND TRAPPED CONDENSATE SIZED PER THE MANUFACTURER'S WRITTEN RECOMMENDATIONS TO INDIRECTLY SPILL INTO NEAREST FLOOR

(8) MECHANICAL EQUIPMENT - P-AH2 FURNISH AND INSTALL NEW COIL CIRCULATION PUMP FROM STRUCTURE INDEPENDENT OF PIPING. EXTEND 2" HWS PIPING TO INLET AND OUTLET OF PUMP AND MAKE CONNECTIONS.

(9) MECHANICAL EQUIPMENT - AH-3 FURNISH AND INSTALL NEW AIR HANDLING UNIT ATOP 6" TALL CONCRETE HOUSEKEEPING PAD. EXTEND 26"x14" SUPPLY, 28"x14" RETURN, 28"x14" FRESH AIR INTAKE, AND 28"X4" RELIEF DUCTWORK TO UNIT AND MAKE CONNECTIONS. EXTEND 2" HWS & HWR PIPING TO UNIT COIL AND MAKE CONNECTIONS.

(10) MECHANICAL EQUIPMENT - P-AH3 FURNISH AND INSTALL NEW COIL CIRCULATION PUMP FROM STRUCTURE INDEPENDENT OF PIPING. EXTEND 2" HWS PIPING TO INLET AND OUTLET OF PUMP AND MAKE CONNECTIONS.

9 MECHANICAL EQUIPMENT - AH-4

FURNISH AND INSTALL NEW AIR HANDLING UNIT ATOP 6" TALL CONCRETE HOUSEKEEPING PAD. EXTEND 62"x44" SUPPLY, 54"x30" RETURN, 88"x16" FRESH AIR INTAKE, AND 88"X16" RELIEF DUCTWORK TO UNIT AND MAKE CONNECTIONS. EXTEND 3" HWS & HWR PIPING TO UNIT COIL AND MAKE CONNECTIONS.

(10) MECHANICAL EQUIPMENT - P-AH4

FURNISH AND INSTALL NEW COIL CIRCULATION PUMP FROM STRUCTURE INDEPENDENT OF PIPING. EXTEND 3" HWS PIPING TO INLET AND OUTLET OF PUMP AND MAKE CONNECTIONS.

(11) MECHANICAL EQUIPMENT - EXISTING LOUVER (WEST) CLEAN EXISTING LOUVER AND PAINT CUSTOM COLOR AND FINISH AS SELECTED BY THE ARCHITECT. PROVIDE NEW 96"x72"x12" INSULATED PLENUM ON INSIDE OF LOUVER. EXTEND 36"x14" FRESH AIR INTAKE TO PLENUM AND MAKE CONNECTION.

(12) MECHANICAL EQUIPMENT - EXISTING LOUVER (WEST)

CLEAN EXISTING LOUVER AND PAINT CUSTOM COLOR AND FINISH AS SELECTED BY THE ARCHITECT. PROVIDE NEW 184"x72"x24" INSULATED PLENUM ON INSIDE OF LOUVER. EXTEND TWO (2) 28"x14" AND ONE (1) 54"x30" FRESH AIR INTAKES TO PLENUM AND MAKE CONNECTIONS.

OTHER SIMILAR TECHNIQUE OF PROCESS, FOR INCORPORATING THE MATERIAL CONTAINED HEREON INTO A SHOP DRAWING, IS STRICTLY PROHIBITED.

(C) 2025 AMSCO ENGINEERING INCORPORATED. ALL RIGHTS RESERVED.



October 3, 2025

ADDENDUM NO. 1 2026 AUDITORIUM IMPROVEMENTS AT PALATINE HIGH SCHOOL TOWNSHIP HIGH SCHOOL DISTRICT 211 PROJECT NO. 25032

Board of Education Township High School District 211 1750 South Roselle Road Palatine, Illinois 600067

The Contractor/Bidder shall acknowledge in writing on his bid proposal form the receipt of this Addendum.

This Addendum shall be part of the Specifications and Drawings for this project and shall be part of the actual contract document to complete the work. When the Architect issues an Addendum, it is the Bidder's responsibility to copy and insert it into the bid documents they have obtained from the Architect or Owner.

There is one (1) item in this Addendum.

ITEM NO. 1: DRAWING, SHEET A6.1, PARTIAL REFLECTED CEILING PLAN

REVISE: Scope of work keynotes revised on plan.

#### END OF ADDENDUM NO. 1

Attachments A6.1

BCK/rac

J:\1 D211\25032 2026 Auditorium Improvements @ PHS\1 Spec\Addendum No. 1\25032 AD1.docx

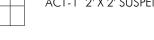


## **CEILING LEGEND**

GB-1 GYPSUM BOARD CEILING/ SOFFIT

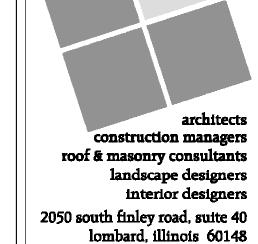


ACT-1 2' X 2' SUSPENDED ACOUSTICAL LAY-IN CEILING TILE - SEE SPEC



PENDANT LIGHT FIXTURE - REFER TO ELECTRICAL AND THEATRE DRAWINGS FOR ADDITIONAL INFORMATION

RECESSED DOWNLIGHT - REFER TO ELECTRICAL AND THEATRE DRAWINGS FOR ADDITIONAL INFORMATION



2026 **AUDITORIUM IMPROVEMENTS** 

**PALATINE HIGH SCHOOL** 

1111 N Rohlwing Rd,

Palatine,

Illinois 60074

p: 630.495.1900 www.arconassoc.com

## SCOPE OF WORK - NEW WORK

C1 <u>THEATRE RIGGING:</u> NEW AUDITORIUM RIGGING, TRACK AND CURTAINS - REFER TO THEATRE DRAWINGS.

- C2 **EXISTING LIGHTING:** EXISTING LIGHT FIXTURES SHOWN FOR REFERENCE (VIF) PATCH CEILINGS AS REQUIRED, LIGHT FIXTURES, DIFFUSERS, ETC. REFER TO MEP DOCS. EXISTING CEILING SHALL BE PATCHED/REPLACED AS REQUIRED FOR MECHANICAL, SPRINKLER AND ELECTRICAL/LIGHTING WORK. - ALL NEW AND EXISTING GB CEILINGS IN AREA OF WORK SHALL RECEIVE NEW PAINT.
- C3 <u>Linear Step Fixture:</u> New Linear Fixture Mount 18" AFF (TYP.) Remove and dispose of existing recessed fixtures and associated conduit Patch/Paint WALL AS REQUIRED - (REFER TO FLOOR PLANS & ELECTRICAL DRAWINGS.)
- C4 <u>CATWALK MOUNTING BRACKET:</u> NEW PLUG STRIP MOUNTING BRACKET REFER TO THEATER AND ELECTRICAL DOCUMENTS.
- C5 <u>NEW PROJECTION SCREEN:</u> PROVIDE & INSTALL NEW PROJECTION SCREEN -COORDINATE LOCATION WITH OWNER & RIGGING - REFER TO ELECTRICAL DRAWINGS.

  BASIS OF DESIGN = DA-LITE PROFESSIONAL ELECTROL - (16:10) 110" X 176" W/ 4'-O\_
- C6 <u>CLOUD CEILING REPAIR:</u> SKIM COAT, SAND, AND PAINT EXISTING PAINTED WOOD

# GENERAL CEILING NOTES

- 1. AT WALL OR EDGE CONDITIONS FOR TILES 4" OR SMALLER, PROVIDE AN OVERSIZED ACOUSTICAL TILE CUT DOWN WITH EDGE TO MATCH ADJACENT TILES AT THESE CONDITIONS. PAINT CUT TILE EDGE TO MATCH TILE FACE W/ PAINT RECOMMENDED BY
- ALL DIMENSIONS ARE TAKEN FROM FLOOR SHOWN IN PLAN U.N.O. CONTRACTOR SHALL CAREFULLY REMOVE AND REINSTALL CEILING TILE NECESSARY FOR
- LOW VOLTAGE WIRE PULLING AND OTHER UTILITY INFRASTRUCTURE WORK. SEE BOTH ARCH. & MPE DOCUMENTS. ALL EXISTING SOFFITS / BULKHEADS, TO BE PAINTED IN ROOMS WITH NEW CEILING WORK. INSTALL/PATCH NEW CEILING GRID OR GYPSUM BOARD, TILE, AND ACCESSORIES IN ALL AREAS WHERE LIGHTING IS BEING REPLACED, SHIFTED, OR REINSTALLED. SEE ELECTRICAL

DOCS FOR LOCATIONS. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY AND WALK-THROUGH EACH SCHOOL TO DETERMINE OFFICIAL LOCATIONS, QUANTITY AND

- NECESSARY WORK TO COMPLETE THE PROJECT. PATCH EXISTING CEILING TO REMAIN ADJACENT TO NEW CONSTRUCTION (TYP.)
  EXISTING CEILINGS SHALL BE REMOVED, PATCHED AND/OR REPLACED FOR ANY ABOVE
- CEILING WORK AS REQUIRED. PROVIDE ACCESS PANELS AS REQUIRED FOR ACCESS TO MECHANICAL EQUIPMENT - REFER TO MEP DRAWINGS FOR LOCATIONS. FOR BIDDING PURPOSES ASSUME 'QUANTITY -8'
  9. PATCH/PAINT EXISTING EXPOSED ROOF STRUCTURE IN EXPOSED AREAS.
- 1750 S. Roselle Rd. Palatine, Illinois 60067

**BOARD of EDUCATION** 

School District 211



REVISIONS										
No.	Date									

Project Number:

**September 25, 2025** 

**Sheet Number:** 

1001 Feehanville Drive, Mount Prospect, IL 60056 | Phone (847) 394.6200 | Fax (847) 394.6205



October 7, 2025

### Pre-Bid Meeting - Agenda

#### PROJECT:

2026 Hoffman Estates High School Locker Room Renovations and Palatine High School Auditorium Improvements
Township High School District 211
1750 South Roselle Road
Palatine, IL 60067

#### **INTRODUCTIONS:**

Director of Facilities and Purchasing: Mr. Rickey Sparks - D211

Facilities & Energy Manager: David Grelyak - D211

Hoffman Estates High School Building Manager: Bob Zimmerman - D211

Palatine High School Building Manager: Allen McAllister - D211

Architect: Brian Kukla - ARCON Associates

Construction Manager: Michael Hantel - Nicholas & Associates, Inc.

All bidding questions shall be directed to Michael Hantel or David Torres in writing on or before October 16, 2025.

Email: mhantel@nicholasquality.com dtorres@nicholasquality.com

#### **DOCUMENT AVAILABILITY:**

Bidding Documents will be distributed electronically, at no charge, on or after September 25, 2025

#### **CRITICAL DATES:**

Mandatory Pre-Bid:	10.7.25 at 3:30pm
2. Bid Opening:	10.21.25 at 11:00am
3. Notice of Award:	11.7.25
4. Commencement	5.23.26
5. Substantial Completion	7.31.26
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Note:

Contractors to include all overtime costs required to complete their work. Expect to bid double shifts or double crews. Saturdays are Workdays, and all such costs are to be included in the bid.

#### SITE VISITS:

Site Access will be available after this meeting. Additional access must be coordinated with the Building Managers at Hoffman Estates and Palatine High Schools

Site Visits are HIGHLY ENCOURAGED.

Hoffman Estates High School Building Manager: Bob Zimmerman - D211 (847) 755-5685

Palatine High School Building Manager: Allen McAllister - D211 (847) 755-1685

1001 Feehanville Drive, Mount Prospect, IL 60056 | Phone (847) 394.6200 | Fax (847) 394.6205



#### **Submission of Bids:**

Instructions to Bidders

#### **BID SUBMISSIONS:**

- Base Bids (Base Bid 1 & Base Bid 2)
- Unit Prices
- Allowances

Bid Security/Bid Bond (10% Required)

Project Experience/References/AIA Document A305

Scope Review for Apparent Low Bidders on will take place in the afternoon on October 24, 2025

#### **SCOPE OF WORK:**

The Hoffman Estates High School Locker Room Renovations and Palatine High School Auditorium Improvements consists of the following Bid Packages:

Bid Package #1 - Concrete

Bid Package #2 - Masonry

Bid Package #3 - General Trades

Bid Package #4 - Flooring

Bid Package #5 - Fire Suppression

Bid Package #6 - Plumbing

Bid Package #7 - HVAC

Bid Package #8 - Electrical

#### Other Important Information:

Construction Starting Times/Construction Hours as Required by the Villages of Palatine and Hoffman Estates.

No Exceptions.

#### **QUESTIONS:**

#### **ATTACHMENTS:**

None

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### Pre-Bid Meeting - Sign-in Sheet

Township High School District 211 2026 Hoffman Estates High School Locker Room Renovations and Palatine High School Auditorium Improvements

PLACE:

**Hoffman Estates High School** 

1100 West Higgins Road

Hoffman Estates, Illinois 60169

TIME:

3:30pm

NAME	REPRESENTING	PHONE	EMAIL
soon weaver	Nelson Fire Prote	ection 815-877-6	5004exH8 donn anclsonpipi
+ Brucher	CF Backer	3128421070	CFBE CFbricker. Com
Neel ?	Tynaz	773-882	inel Drum constration
JASON BRIDGES	WALTER DANI	<u>FIS</u> 1245	Ubridge 5 ewalterdum
John Zybko	John Zylakio	(630)2792800	JZybko@kecunstruction
ank Baio	TSI -	708 277 5913	frank, baio otsicfo
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#### **Pre-Bid Meeting – Sign-in Sheet**

Township High School District 211 2026 Hoffman Estates High School Locker Room Renovations and Palatine High School Auditorium Improvements

PLACE:

**Hoffman Estates High School** 

1100 West Higgins Road

Hoffman Estates, Illinois 60169

TIME:

3:30pm

NAME	REPRESENTING	PHONE	EMAIL
Migrel Guzman	NICKELSOW.	7136170494	Migrelenickerson Jemo. Com
BRUCE C. BUKA	C.B. KA CONC	630 802-71	71 C: BIKA CONCRETE @ AU.
Greg MUNOR	Bear constaction	on 847-521-	-2534 danz@heurcc.com
Paul lyons	Bear construct	40n 847-42	1-5876 paull@hearce.com
RYAN NOLAN	Douglas Floor Cov	win 6308804	644 ryand doughs flooring, o
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### Pre-Bid Meeting - Sign-in Sheet

Township High School District 211 2026 Hoffman Estates High School Locker Room Renovations and Palatine High School Auditorium Improvements

PLACE: Hoffman Estates High School

1100 West Higgins Road

Hoffman Estates, Illinois 60169

TIME: 3:30pm

NAME	REPRESENTING	PHONE 355 87	// <sub>s</sub> EMAIL
KEN HOW		8/5 940	Ken Howen @ Hold
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ERRY KOSTS	EUR HY POWEN ELEC	THIC 815-671-7764	JERRY K @HYPOWER EL
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### Pre-Bid Meeting - Sign-in Sheet

Township High School District 211 2026 Hoffman Estates High School Locker Room Renovations and Palatine High School Auditorium Improvements

PLACE: Hoffman Estates High School

1100 West Higgins Road

Hoffman Estates, Illinois 60169

TIME: 3:30pm

NAME	REPRESENTING	PHONE	EMAIL
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Kathleen Cil		Concrde 708-692-9	
TROY DEFRAND 1	DEFRAMO PLUMBIN	1, ILE 847-438-08	B TROY E DX PROMO PLYMING COM
Jonathon Gury	MG Mcchanical	815-334-749	O estimating Day mechanical r
Neil Brossmen	I Deal HTG	815 641 1067	Neic Brossman @ Idoly en
BRIAN KUKLA	ARCOU 70	185254381 bc	kukla @arconassoc
Anthony Butell	Prenin Corcrete	630 9678725	abertell@prenium concrete
Haley Dunn	Helmmechanic	al 108-248-3922	hounne helmgrap
Brian Henhap!	A + H Plumbing	847-981-8800	Brian Dahplbg, com
Kiekey Soan	& School District	211 -	
JAKE GAMENTO	ABM Commercial Mac	ring 630-400-6210	Jake @ ABINCF. Com
PAUL SWAYED	USAFP	847-878-996b	Paul Suraniette USAFP.
Alex Ammor	FlotechMccl	1 6308471000	, alex OFlotechnich
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### **Pre-Bid Meeting – Sign-in Sheet**

Township High School District 211 2026 Hoffman Estates High School Locker Room Renovations and Palatine High School Auditorium Improvements

PLACE:

**Hoffman Estates High School** 

1100 West Higgins Road

Hoffman Estates, Illinois 60169

TIME:

3:30pm

MICHAEL HANTEL NICHOLOGY 847 394-6200 MHANTEL & NICHOLOGY EM FARLEY NICHOLOGY 847-394-6200 efarley @Nichology Quis Joel Ramos, Amsco 630-861-7294 Jramos & amany electric Mily Romas Many Electric 717 3909497 MRCMI a many electric MUSHAHID TILUS IN SLYL 312-776 8121 maldbacki @ Fozoccorst Michael Yulda Allstate Denno 841-973-9752 myalda @ allstate concretz the Reinskalli Fre Taza Construction 318-505-3354 6-1-metiles instyle.com  Lan Cathey Eagle Concrete (230-746-1310 Randy Knoth Cayle concret Correr Dava Amsco Correr (230-746-1310 Randy Knoth Cayle concret Correr Dava Amsco Correr (230-746-1310 Randy Knoth Cayle concret Correr Consolur Fem (330-890-6542 Foster Consolur Femorano Dave Table March	NAME	REPRESENTING	PHONE	EMAIL
Joel Rames, Amsco 630-861-7294 Jeamos Bainscoenginedin Mai 14 Romas Many Elastric 717 3909497 MRCMC a many electric MUSHAHID Tilus In Style 312-776 8121 moldshowi @ Fozoconst Michael Yulda Allstate Demo 841-973-9152 myalda@allstate concrets of Briunhaldi Ize Taza Construction 310-505-3254 60-10-02+11esinstyle com Jan Cathey Eagle Concrete 630-746-1310 Randy Knoth C Eagle concret Correr Dava Amsco C35-301-12/2 cdzun@amscoengincering Math Mutagamy IDS 708-8308947 Suth Quinty grated dissolition co Former Gonzalez Fem 630890 6542 Foster, caonsolize Femorania Dave TABEC AMBER MECH. 708597-9700 ESTEMATING PAMBERMENT		NicHolars		
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#### Pre-Bid Meeting - Sign-in Sheet

Township High School District 211 2026 Hoffman Estates High School Locker Room Renovations and Palatine High School Auditorium Improvements

PLACE: Hoffman Estates High School

1100 West Higgins Road

Hoffman Estates, Illinois 60169

TIME: 3:30pm

NAME	RE	PRESENTING	PHONE	EMAIL
LUIT MATTSON	DeKalb	Mechanical BIS-751	0-4528 ESTIMATING C	DeKalSMechanical. can
NORK	281049	PROTOUGHT	7088607101	Nonys perolium.
Mark Horn		A. Horn, IR.	847-382-4170	marke ahorning. Con
JOB FEAT	1500	AMERICAN HAS	847.543-803	Z ESPOQUELON
MIKE BA	ars	UBETTYVILLEDUS	847-362-8500	mike@likeaguilleti
Anthony Ac	itelli	C. Acitelli	630-832-4645	anthony @ acitelli. com
	tallo	Arno Decalston	847494 1718	NEFRO AVNO Decat
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Hoffman Estates, Illinois 60169

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NAME	REPRESENTING	PHONE	EMAIL
Com Cheave	Lo Destro CC	630 44159 80	(cheavre@ lodes to construction.
Dale Richards	JEE Duff	6.30 514 6255	dukr@jeduff.com
GTEVE SANSONE	IBS	708.439.3372	SSansone Dibs-chicagos
Jim D'Ambrosco	Monarch	847-439-4227	jinda monarch construction and
PAUL MUZZAL	ypo Bremien Pict St	one 1478780071	PAYTHYPO BCOMMONION
Andrew Bylsma	Elliot Construction	630-469-1823 a	indrew dellistronstruction.com
RICGIDO Arrogs	TOR construction	815-540-8308	Eriko Tok Construction.com
Marty Gold	AC+D 269-223	-4407 myolobea	ecetheatrical.com
Clanssa Buen	o Terra Demolition	847-451-9301	terra 9301 Controok.com
Bosn Jersen /	Manusas General Cont	. 847-973-0600.	Manusos @Manusos FAC. Com
Frank Dais	TSI,	708-277-	
Tom Toolarge	MASTERSANG	5. 84 680-760	o Four and Inguires con
Brent Carroll	Automotic fire System	815-654-7449	estimating a Auto Make fire systems com
1,			
(1 <del>4</del>			

#### **REVISED BID FORM R1**

Projects:			novations at H ents at Palatir		ites High School & ool
Owner:	-	High School h Roselle Roo IL 60067			
Architect:		ssociates Ind h Finley Road IL 60148			
Construction Manager:	1001 Feel	& Associates nanville Drive ospect, IL 600	)		
Bid To:		High School h Roselle Roo IL 60067			
Bid Package	#				
Bid From:					
	Name of	Firm		Cor	tact Person
	Address				
	Telephon	<del></del>	Fax	Email	
All bidders ar may result in		_	eipt of Adder	ndum on Bid	Form. Failure to do s
Addendum N	Vo	_ Date:	Addenc	lum No	Date:
Addendum N	Vo	_ Date:	Addenc	lum No	Date:
Addendum N	۸o	Date:	Addend	lum No	Date:

#### Bid Date, Time & Place:

Construction Manager, Nicholas & Associates, Inc. will receive bid proposals in triplicate form on Thursday, October 23rd, 2025 at 11:00 AM at the District 211 Administration Center, 1750 South Roselle Road, Palatine, IL 60067

#### **Bidders:**

By submitting this bid form, the contractor has thoroughly familiarized themselves with the entire bid documents, procedure manual, local conditions, instructions to bidders, and here by propose to perform everything required and to provide all labor, materials, tools, bonds, insurance, equipment, and services as required to perform the scope of work in a skilled and workmanlike manner in accordance with the drawings and described in the project manual even through such work may be included as related requirements specified in other divisions or section for the lump sum amount of

<u>Base Bid 1 – Locker Room Renovati</u>	ions at Hoffman Estates High School	
	Dollars (\$	)
Base Bid 2 – Auditorium Improveme	ents at Palatine High School	
	Dollars (\$	_)
<u> </u>	ount of specified allowance(s) included uitable soil allowance, & floor prep allov	•
specified.	Dollars (\$	)
<u>Overtime</u> – Please state the amour schedule requirements.	nt of Overtime included in your bid per t	he
	Dollars (\$	)
Alternate Bid Proposals		

The following alternate describe labor or materials which shall be provided in a like manner as those specified and /or indicated on the drawings. The Owner reserves the right to accept any alternate as a change to the base bid. For each alternate, state the amount to be added to or deducted from the base bid should the Owner decide to proceed with the portion of the work identified as alternates.

#### Alternates

None

#### Performance and Material Bonds

Cost of the 100% "Performance and Labor & Material Payment Bond" that is included in this bid.
\$Dollars (\$)
Pre-Bid Conference This bidder did did not attend the pre-bid conference.
Multiple Bid Submissions  Contractors are strongly advised to properly identify their individual trade on this bid form and the exterior of the sealed bid envelope. Contractor will be permitted to submit multiple trade bids; however, each separate trade will required a separate bid proposal in a separate bid envelope.
All bidders accept the provisions of the bidding requirements regarding disposition of bid security.
When awarded a contract based upon this bid, this contractor will enter into and execute a contract with the Owner and aggress to furnish in accordance with the bidding documents:  1. All insurance requirements 2. All bonds requirements 3. Accomplish the work in accords with the contract
Extra Work  The undersigned agrees that on all changes to the construction documents involving cost, either extra items or credit items, the following percentage will be added or deducted from the actual cost of the work for this bidder's overhead and profit.
For work performed by contractor's own employees – 10% For work performed under subcontractor employees – 5% Note: Above to be applied for extras if and when allowance value is exhausted. No OH&P will be approved for cost changes being applied to the specified allowance.
Unit Prices General Requirements: Include an amount for each Unit Price listed on the Bid Form and specified in the Project Manual. Include costs for labor, materials, installation, overhead, and Contractor's profit in amount for each Unit Price. These Unit Prices will be used for all Add's & Deduct's.
<u>Unit Price #1</u> – Moisture Mitigation
Unit Price #2 — Ceiling Grid & Tile replacement

/Per Square Foot

#### Time is of the Essence

The contractor by signing this agreement shall make every effort, including working overtime, weekends and /or evenings to complete work on schedule and not adversely inconvenience the Owner or other contractors to perform their work following this contractor's work. This contractor will make every effort to cooperate with other trades on site.

#### **Award**

In submitting this bid, it is understood that the right is reserved by the Owner to reject any and all bids. If written notice of the acceptance of the bid is mailed, telegraphed, facsimiled, and /or delivered to the undersigned with in 45 days after the bid opening there of, or at any time thereafter before this bid is withdrawn by written notification, the undersigned agrees to execute and deliver a contract in the prescribed form and furnished the required bonds within 10 days after the contract is presented to them for signature.

#### **Schedule of Values**

The contractor agrees to furnish a schedule of values and complete list of subcontractors within seven (7) days of the bid opening. This may be requested regardless of award of bid.

#### **Bidder Certification**

The undersigned hereby understands and agrees as a condition of entering into a contract with the Owner, and under oath and penalty of perjury and possible termination of contract rights and debarment, the undersigned deposes and states that he / she has the authority to make any certifications required by this affidavit on behalf of the bidder and that all information contained in this affidavit is true and correct in both substance and face.

- 1. Bidder hereby certifies that said bidder is not barred from bidding on the aforementioned contract of a violation of either Section 33E-11 (720 ILC 5/33E-11 ILL Revised Statutes) bid rigging and rotating.
- 2. Bidder hereby certifies that said bidder has a written Sexual Harassment Policy in place in full compliance with 775 ILCS 5/2-105 (A) (4) of the Illinois Human Rights Act.
- 3. Bidder hereby certifies that said bidder has a written Equal Employment Policy in place in full compliance with 775 ILCS 511 of the Illinois Human Rights Act.

4.	Bidder hereby certifies that said bidder has a written Illinois Drug Free Workplace Policy in place in full compliance with Illinois Revised Statutes Chapter 217 Paragraph 132-311 et.sec.

### **NON-COLLUSION AFFIDAVIT**

STATE OF ILLINOIS
SS:
COUNTY
The undersigned bidder or agent, being duly sworn, on oath says that s(he) has not, no has any other member, representative, or agent of the firm, company, corporation of partnership represented by him/her, entered into any combination, collusion of agreement with any person relative to the price to be bid by anyone at such letting, no to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement understanding or combination with any other person in reference to such bidding.
S(he) further states that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value resulting from such sale.
Firm/Corporation
Name of Representative
Subscribed and sworn to before me thisday of20
My Commission Expires: Signature:

## **Contractor's Certification** \_\_\_\_\_ having been first duly sworn on (Individual) Oath, do depose and state that I presently reside at \_\_\_\_ (Address) \_\_\_\_\_, authorized Principal, Officer, and Agent of \_\_\_\_\_ And do hereby certify to (Name of Corporation) Township High School District 211, its Board of Education, and Employees that neither I nor \_\_\_\_\_ (Name of Contractor) are in violation of the above State of Illinois Statutes. Name of Bidder (Individually or on Behalf of Contractor) Title Subscribed and sworn before to me this day: Date

Notary Public

Commission Expires

By signing this bid form, the bidder certifies that they have examined and carefully prepared this proposal based on the bidding documents, all issued addenda, other related clarification and have checked the same in detail before submitting this proposal and I have full authority to made statements and submit this proposal in it's/their behalf that the said statements are true and correct.

Each prospective individual trade contracting firm making a submission for consideration of their bid proposal agrees to waive any claim it has or may have against the Owner, the Architect / Engineer, Construction Manager and their respective employees, arising out of or in conjunction with the administration, evaluation or recommendation of any submittal.

Bidder agrees that this proposal is done at the contractors own expense and understands that no compensation will be given for their efforts.

I hereby certify that all statements herein are made on behalf of

(Name of Corporation, Partnership	o, or Person submitting bid)
A Corporation organized and existing un	der the law of the State of
A Partnership consisting of	
An Individual trading as	of the city of
State of	
Contractor:	
Title: Do	ate:
Subscribed and sworn before to me this	day:
Date	
Notary Public	
Commission Expires	

This proposal shall remain in effect for 60 days after submittal of same.

#### **End of Bid Form**