ADDENDUM NO. 2

April 27, 2021

CARMEL CLAY SCHOOLS EDUCATIONAL SERVICES CENTER ADDITION AND REMODELING

TSC NO. 220100.3 5201 East Main Street Carmel, IN 46032

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated March 15, 2021, by Fanning Howey Associates, Inc. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1, ESC Interior Phasing Plan and Fanning Howey Associates, Inc. Addendum No. 2, dated April 26, 2021, consisting of 6 items, 2 pages, and Revised Drawing Sheets: M2.01, M5.01 and E5.1

A. Specification Section 00 20 00 – Information Available to Bidders

B. Pre-Award Meetings will be hosted virtually using Microsoft Teams on May 6, 2021. Microsoft Team's Meeting information will be shared with apparent low, responsible, and responsive Bidders. The Pre-Award Meetings will be scheduled as follows (all times are local time, EST). A minimum of one Contractor representative with knowledge of the project must be in attendance for Pre-Award Meeting.

Bid Category No. 1 – General Trades: May 6, 2021 8:00am – 9:00am

Bid Category No. 2 – Flooring: May 6, 2021 9:00am – 10:00am

Bid Category No. 3 – Painting and Wallcovering: May 6, 2021 10:00 – 11:00am

B. Specification Section 01 32 00 – Schedules and Reports

Paragraph 1.03 Guideline Schedule

D. Revised Interior Phasing Plan dated April 26, 2021 for Contractor reference, included in this Addendum.

ADDENDUM NO.2

Educational Services Center Additions and Remodeling

Project No. 220144.00

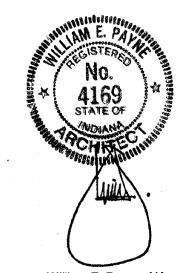
Carmel Clay Schools Carmel, Indiana

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Addendum No. 2, 6 items, 2 pages Revised Drawing Sheets: M2.01, M5.01 and E5.1

Date: April 26, 2021

FANNING/HOWEY ASSOCIATES, INC. ARCHITECTS/ENGINEERS/CONSULTANTS



William E. Payne, AIA Indiana Registration No. 4169

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 2 to Drawings and Project Manual, dated March 15, 2021 for Educational Services Center Additions and Remodeling for Carmel Clay Schools, 5201 East Main Street, Carmel, Indiana 46033; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.

This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, SECTION 10 26 00 - WALL AND DOOR PROTECTION

- A. Add 2.4, A., 5., as follows:
 - "5. Height: Full height, from base to ceiling."

ITEM NO. 2. ACCEPTABLE MANUFACTURERS

The following manufacturers are to be considered acceptable manufacturers (suppliers and fabricators) for the Sections of the Specifications listed. Listed manufacturers are required to bid on products equal in type and design, size, function, and quality to that originally specified. Final decision as to equality of products specified versus those proposed shall be made by the Architect.

Section 08 51 13 - Aluminum Windows

- Litex Windows, Rochester Hills, Michigan (L11001 Project Out)

Section 08 91 19 - Fixed Louvers

- Pottorff

Section 23 33 00 - Air Duct Accessories

- Pottorff (Air Duct Accessories)

Section 23 37 23 - HVAC Gravity Ventilators

- ACME

Section 26 51 00 Interior Lighting

- Beghelli MEZ series (Type M-3)

ITEM NO. 3. REVISED DRAWING SHEETS

A. Drawing Sheets: M2.01, M5.01 and E5.1 have been revised, dated 04/26/21 and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

ITEM NO. 4. DRAWING SHEET NO. - E3.1

A. Add communications outlet located next to temperature control panel in room A182D.

ITEM NO. 5. DRAWING SHEET NO. - E4.1

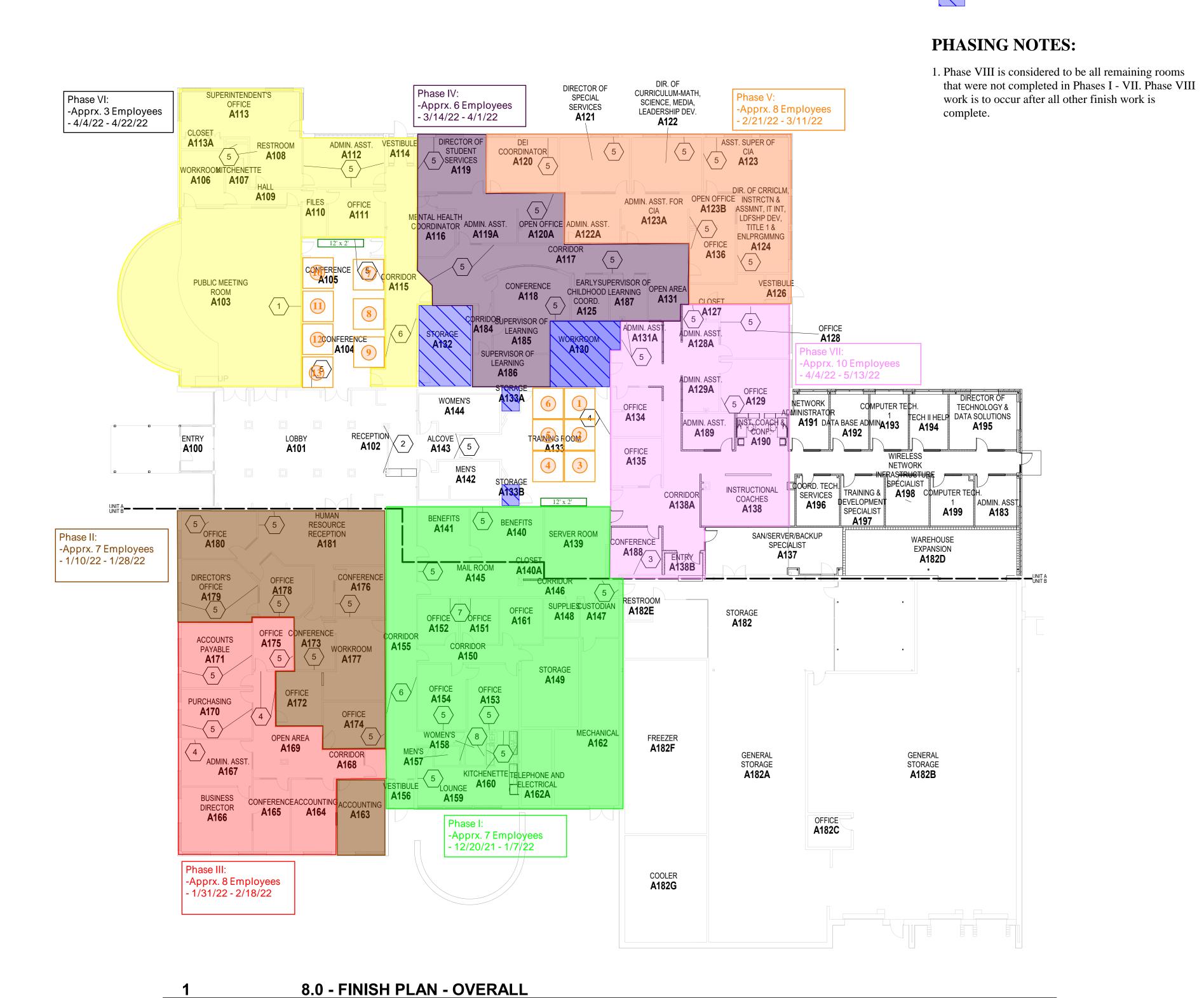
- A. Add fixture type LP-1 to the fixture schedule as follows:
 - 1. Manufacturer and series: Lithonia DSX2 series, Lumark Prevail series, Beacon Viper series.
 - 2. Description: LED area light, 4000 kelvin color temperature, type 3 medium distribution, multi-volt 120 277 driver, 27,000 lumens minimum, 230 watts input power, on 30' square steel pole, with arm mount, dark bronze finish.

ITEM NO. 6. DRAWING SHEET NO. – T3.1

A. Add C-1 data drop at temperature control panel in room A182D.

END OF ADDENDUM

			NOOH	Finish Schedule					Ceiling - Colo
OOM NO.	Name	Floor - Material			Base - Color Code	Wall - Material	Wall - Color Code	Ceiling - Material	Code
A100 A101	ENTRY LOBBY	XPT/ECT XPT	ECT-1 XPT	EXIST WDB	EXIST XWDB	EXIST/P	EXIST EXIST/P-1	XGLASS XGWB/P	XGLASS P-2,3
A102 A103	RECEPTION PUBLIC MEETING ROOM	CART	CART-1	WDB WDB	XWDB XWDB	EXIST/XGWB/VWC VWC	EXIST/P-1/VWC-1 VWC-1	XGWB/P XACT/XGWB/P	P-2 P-2
A104	CONFERENCE	CART	CART-1	RB	RB-1	VWC	VWC-2	XACT/XGWB/P	P-2
A105 A106	CONFERENCE WORKROOM	CART	CART-1	RB RB	RB-1	VWC P	VWC-2 P-1	XACT/XGWB/P XACT	P-2 XACT
A107	KITCHENETTE	LVT	LVT-1	RB	RB-1	P	P-1	XACT	XACT
A108 A109	RESTROOM HALL	XPT LVT	XPT LVT-1	XPTB RB	XPTB RB-1	VWC P	VWC-1 P-1	XGWB/P XACT	P-2 XACT
A110	FILES	CART	CART-1	RB	RB-1	P	P-1	XACT	XACT
A111 A112	OFFICE ADMIN. ASST.	CART	CART-2 CART-2	RB RB	RB-2	VWC	VWC-2	XACT	XACT
A113	SUPERINTENDENT'S OFFICE	CART	CART-2	RB	RB-2	VWC	VWC-2	XACT	XACT
A113A A114	CLOSET VESTIBULE	CART XPT/ECT	CART-2 XPT/ECT-1	RB EXIST	RB-2 EXIST	EXIST	P-1 EXIST	XACT	XACT
A115 A116	CORRIDOR MENTAL HEALTH COORDINATOR	CART	CART-1 CART-2	RB RB	RB-1 RB-2	VWC	VWC-1,4 P-1	XACT XACT	XACT XACT
A117	CORRIDOR	CART	CART-2 CART-1	RB	RB-1	VWC	VWC-1	XACT	XACT
A118 A119	CONFERENCE DIRECTOR OF STUDENT SERVICES	CART	CART-2 CART-2	RB RB	RB-2 RB-2	P/VWC P/VWC	P-1/VWC-3 P-1/VWC-2	XACT XACT	XACT XACT
A119A	ADMIN. ASST.	CART	CART-2	RB	RB-2	P/VWC	P-1/VWC-2	XACT	XACT
A120 A120A	DEI COORDINATOR OPEN OFFICE	CART	CART-2 CART-2	RB RB	RB-2	P/VWC	P-1/VWC-2 P-1/VWC-2	XACT	XACT
A121	DIRECTOR OF SPECIAL SERVICES	CART	CART-2	RB	RB-2	P/VWC	P-1/VWC-2	XACT	XACT
A122	DIR. OF CURRICULUM-MATH, SCIENCE, MEDIA, LEADERSHIP DEV.	CART	CART-2	RB	RB-2	P/VWC	P-1/VWC-2	XACT	XACT
A122A	ADMIN. ASST.	CART	CART-2	RB	RB-2	P/VWC	P-1/VWC-2	XACT	XACT
A123 A123A	ASST. SUPER OF CIA ADMIN. ASST. FOR CIA	CART	CART-2	RB RB	RB-2	P/VWC P/VWC	P-1/VWC-2 P-1/VWC-2	XACT	XACT
A123B	OPEN OFFICE	CART	CART-2	RB RB	RB-2	P/VWC	P-1/VWC-2	XACT	XACT
A124	DIR. OF CRRICLM, INSTRCTN & ASSMNT, IT INT, LDFSHP DEV, TITLE 1 & ENLPRGMMNG	CART	CART-2		RB-2	P/VWC	P-1/VWC-2	XACT	XACT
A125 A126	EARLY CHILDHOOD COORD. VESTIBULE	CART XPT/ECT	CART-2 XPT/ECT-1	RB EXIST	RB-2 EXIST	P P	P-1 P-1	XACT	XACT XACT
A127	CLOSET	CART	CART-1	RB	RB-1	P	P-1	XACT	XACT
A128 A128A	OFFICE ADMIN. ASST.	CART	CART-2 CART-2	RB RB	RB-2	P/VWC VWC	P-1/VWC-2 VWC-2	XACT ACT	XACT ACT-1
A129	OFFICE	CART	CART-2	RB	RB-2	P/VWC	P-1/VWC-2	XACT	XACT
A129A A130	ADMIN. ASST. WORKROOM	CART LVT	CART-2 LVT-1	RB RB	RB-2 RB-1	VWC P	VWC-2 P-1	ACT XACT	ACT-1 XACT
A131	OPEN AREA	CART	CART-1	RB	RB-1	VWC	VWC-1	XACT/ACT	XACT/ACT-1
A131A A132	ADMIN. ASST. STORAGE	CART LVT	CART-2 LVT-1	RB RB	RB-2 RB-1	VWC P	VWC-2 P-1	ACT XACT	ACT-1 XACT
A133	TRAINING ROOM	CART	CART-2	RB	RB-2	P/VWC	P-1/VWC-3	XACT	XACT
A133A A133B	STORAGE STORAGE	CART	CART-2	RB RB	RB-2	P	P-1 P-1	XACT	XACT
A134	OFFICE	CART	CART-2	RB	RB-2	P	P-1,4	ACT	ACT-1
A135 A136	OFFICE OFFICE	CART	CART-2	RB RB	RB-2	P/VWC	P-1,4 P-1/VWC-2	XACT	XACT
A137	SAN/SERVER/BACKUP SPECIALIST	LVT	LVT-1	RB	RB-1	Р	P-1	ACT	ACT-1
A138 A138A	INSTRUCTIONAL COACHES CORRIDOR	CART	CART-2 CART-1	RB RB	RB-2 RB-1	VWC	VWC-2 VWC-1	ACT	ACT-1
A138B	ENTRY	ECT	ECT-1	RB	RB-2	P	P-1	XACT	XACT
A139 A140	SERVER ROOM BENEFITS	CART	CART-2 CART-2	RB RB	RB-2	P/VWC	P-1 P-1/VWC-2	XACT	XACT
A140A	CLOSET	CART	CART-2	RB	RB-2	Р	P-1	XACT	XACT
A141 A142	BENEFITS MEN'S	CART	CART-2 XPT	RB XPTB	RB-2 XPTB	P XCT	P-1 XCT	XACT	XACT
A143	ALCOVE	CART	CART-1	RB	RB-1	VWC	VWC-1	XACT	XACT
A144 A145	WOMEN'S MAIL ROOM	XPT LVT	XPT LVT-1	XPTB RB	XPTB RB-1	XCT P/VWC	P-1/VWC-2	XACT	XACT
A146	CORRIDOR	LVT	LVT-1	RB	RB-1	P/VWC	P-1/VWC-2	EXIST	EXIST
A147 A148	CUSTODIAN SUPPLIES	LVT	LVT-1 FS-1	RB RB	RB-1	P	P-1 P-1	XACT	XACT
A149	STORAGE	LVT	LVT-1	RB	RB-1	P	P-1	XACT	XACT
A150 A151	CORRIDOR OFFICE	CART	CART-1 CART-2	RB RB	RB-1 RB-2	P	P-1 P-1,4	XACT	XACT
A152	OFFICE	CART	CART-2	RB RB	RB-2 RB-2	P	P-1,4	XACT	XACT
A153 A154	OFFICE OFFICE	CART	CART-2	RB	RB-2	P/VWC P/VWC	P-1/VWC-2 P-1/VWC-2	XACT	XACT
A155 A156	CORRIDOR VESTIBULE	CART XPT/ECT	CART-1 XPT/ECT-1	RB EXIST	RB-1 EXIST	VWC XBRK	VWC-1,4 XBRK	XACT	XACT XACT
A157	MEN'S	XPT	XPT/ECT-1	XPTB	XPTB	XCT/P	XCT/P-5	XACT	XACT
A158 A159	WOMEN'S LOUNGE	XPT LVT	XPT LVT-1	XPTB RB	XPTB RB-1	XCT/P P/VWC	XCT/P-5 P-1/VWC-1	XACT EXIST	XACT EXIST
A160	KITCHENETTE	LVT	LVT-1	RB	RB-1	VWC	VWC-1	EXIST	EXIST
A161 A162	OFFICE MECHANICAL	CART XCONC	CART-2 XCONC	RB EXIST	RB-2 EXIST	P P	P-1,4 P-1	XACT XACT	XACT XACT
A162A	TELEPHONE AND ELECTRICAL	XCONC	XCONC	EXIST	EXIST	P	P-1	XACT	XACT
A163 A164	ACCOUNTING ACCOUNTING	CART	CART-2 CART-2	RB RB	RB-2 RB-2	VWC	VWC-2 VWC-2	XACT	XACT XACT
A165	CONFERENCE	CART	CART-2	RB	RB-2	VWC	VWC-2	XACT	XACT
A166 A167	BUSINESS DIRECTOR ADMIN. ASST.	CART	CART-2 CART-2	RB RB	RB-2 RB-2	VWC P/VWC	VWC-2 P-1/VWC-2	XACT XACT	XACT XACT
A168	CORRIDOR	CART	CART-1	RB	RB-1	VWC	VWC-1	XACT	XACT
A169 A170	OPEN AREA PURCHASING	CART	CART-1 CART-2	RB RB	RB-1 RB-2	P/VWC	P-1/VWC-1 P-1/VWC-2	XACT	XACT
A171	ACCOUNTS PAYABLE	CART	CART-2	RB	RB-2	P/VWC	P-1/VWC-2	XACT	XACT
A172 A173	OFFICE CONFERENCE	CART	CART-2	RB RB	RB-2	P/VWC	P-1,4 P-1/VWC-3	XACT	XACT
A174	OFFICE	CART	CART-2	RB	RB-2	P/VWC	P-1/VWC-2	XACT	XACT
A175 A176	OFFICE CONFERENCE	CART	CART-2	RB RB	RB-2	P/VWC P/VWC	P-1/VWC-2 P-1/VWC-3	XACT	XACT
A177	WORKROOM	LVT	LVT-1	RB	RB-1	Р	P-1	XACT	XACT
A178 A179	OFFICE DIRECTOR'S OFFICE	CART	CART-2	RB RB	RB-2	P/VWC P/VWC	P-1/VWC-2 P-1/VWC-2	XACT	XACT
A180	OFFICE	CART	CART-2	RB	RB-2	P/VWC	P-1/VWC-2	XACT	XACT
A181 A182	HUMAN RESOURCE RECEPTION STORAGE	XCONC XCONC	XCONC	RB EXIST	RB-2 EXIST	P/VWC EXIST/P	P-1/VWC-3 EXIST/P-1	XACT XACT	XACT
A182A	GENERAL STORAGE	XCONC	XCONC	EXIST	EXIST	P	P-1	XACT	XACT
A182B A182C	GENERAL STORAGE OFFICE	XCONC XCONC	XCONC XCONC	EXIST EXIST	EXIST EXIST	P	P-1 P-1	XACT	XACT
A182D	WAREHOUSE EXPANSION	CONC	FS-1	RB RB	RB-1	P	P-1	EXP	PES-1
A182E A182F	RESTROOM FREEZER	XCONC EXIST	XCONC EXIST	EXIST	EXIST	EXIST	P-1 EXIST	XGWB/P EXIST	P-2 EXIST
A182G	COOLER ADMIN ASST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST
A183 A184	ADMIN. ASST. CORRIDOR	CART	CART-2 CART-1	RB RB	RB-2 RB-1	VWC	VWC-2 VWC-1	ACT XACT	ACT-1 XACT
A185	SUPERVISOR OF LEARNING	CART	CART-2	RB	RB-2	VWC	VWC-2	XACT	XACT
A186 A187	SUPERVISOR OF LEARNING SUPERVISOR OF LEARNING	CART	CART-2	RB RB	RB-2 RB-2	VWC	VWC-2 VWC-2	XACT	XACT
A188	CONFERENCE	CART	CART-2	RB	RB-2	P/VWC	P-1/VWC-3	ACT	ACT-1
A189 A190	ADMIN. ASST. INST. COACH & CONF.	CART	CART-2	RB RB	RB-2	VWC	VWC-2	ACT ACT	ACT-1 ACT-1
A191	NETWORK ADMINISTRATOR	CART	CART-2	RB	RB-2	VWC	VWC-2	ACT	ACT-1
A192 A193	DATA BASE ADMIN. COMPUTER TECH. 1	CART	CART-2	RB RB	RB-2 RB-2	VWC	VWC-2 VWC-2	ACT ACT	ACT-1 ACT-1
A194	TECH II HELP	CART	CART-2	RB	RB-2	VWC	VWC-2	ACT	ACT-1
A195	DIRECTOR OF TECHNOLOGY & DATA SOLUTIONS	CART	CART-2	RB	RB-2	VWC	VWC-2	ACT	ACT-1
A196	COORD. TECH. SERVICES	CART	CART-2 CART-2	RB RB	RB-2 RB-2	VWC VWC	VWC-2 VWC-2	ACT ACT	ACT-1
A197	TRAINING & DEVELOPMENT SPECIALIST WIRELESS NETWORK INFRASTRUCTURE	CART	CART-2 CART-2	RB	RB-2	VWC	VWC-2 VWC-2	ACT	ACT-1
A198			1	I .					T. Control of the Con
A198 A199	SPECIALIST COMPUTER TECH. 1	CART	CART-2	RB	RB-2	VWC	VWC-2	ACT	ACT-1



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

GENERAL FINISH NOTES

Temporary 8'x8' Work Station

Temporary Storage for Displaced Employees

Temporary Countertop Work Area

FIXED CASEWORK AND TACKBOARDS SHALL REMAIN IN PLACE (UNO). NEW WALL FINISHES SHALL BE INSTALLED AROUND THESE ITEMS. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES.

ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.

REMOVE AND REINSTALL EXISTING DEVICE FACEPLATES, SWITCH FACEPLATES, TECHNOLOGY FACEPLATES, AND CLOCKS.

EXISTING ITEMS TO REMAIN AND NEW FINISHES APPLIED AROUND INCLUDE BUT NOT LIMITED TO

THERMOSTATS, AND FIRE EXTINGUISHER CABINETS RESILIENT TRANSITION STRIP BETWEEN NEW FLOOR FINISH AND EXISTING FLOOR FINISH.

PROVIDE NEW RESILIENT TRANSITION STRIPS AT EXPOSED EDGE OF NEW FLOOR FINISH TO EXISTING

FLOOR FINISH. PAINT ALL SIDES (VERT. AND HORZ.) OF

BULKHEAD/SOFFIT COLOR INDICATED (UNO). EXISTING INTERIOR DOOR FRAMES ARE TO REMAIN. DO NOT PAINT. PAINT ALL NEW INTERIOR DOOR FRAMES P-6, TO MATCH EXISTING DOOR FRAME COLOR. PAINT ON ALL

XPTB INDICATES EXISTING PORCELAIN TILE BASE.

FACES (PAINT CODE #5.12). REFER TO LIST OF PATCH AND REPAIR ALL HOLES AND IMPERFECTIONS,

TO RECEIVE NEW FINISHES. XPT INDICATES EXISTING PORECLAIN TILE. XBRK INDICATES EXISTING BRICK. XCT INDICATES EXISTING CERAMIC TILE.

XACT INDICATES EXISTING ACOUSTICAL CEILING TILE. XGWB INDICATES EXISTING GYPSUM WALL BOARD. XWDB INDICATES EXISTING WOOD BASE.

XCONC INDICATES EXISTING CONCRETE. XGLASS INDICATES EXISTING GLASS.

FLOOR PATTERN/FINISH KEY NOTES

CONFERNCE A104, A105: IN REFERENCE TO RESURFACING OF MOVABLE WALLS, PROVIDE AND INSTALL 1/2" J-CHANNEL AT BOTTOM EDGE OF PANELS (BOTH SIDES) TO SECURE VWC-5 AT BASE. FINISH TO MATCH EXISTING TRIM ON PANELS (ANODIZED BRONZE OR EQUAL). INSTALL VWC-1 BELOW CHAIR RAIL AND WRAP AROUND

PAINT WALL P-7, LEVEL 5 FINISH ON THIS WALL ONLY. THIS WALL ONLY, PAINT P-1. THIS WALL ONLY, INSTALL VINYL WALL COVERING. REFER TO LIST OF FINISH AND ROOM FINISH SCHEDULE.

INSTALL VWC-1 ABOVE CHAIR RAIL, INSTALL VWC-4 BELOW CHAIR RAIL. THIS WALL ONLY, P-4.

8 THIS WALL ONLY, P-5.

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EDUCATIONAL | SERVICES CENTER | **ADDITION AND** REMODELING

5201 EAST MAIN STREET CARMEL, INDIANA

CARMEL CLAY SCHOOLS



FANNING

317-848-0966 WWW.FHAI.COM apolis, IN 46204

HOWEY

- NEW ADDITION

KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: Author PROJECT NUMBER: 220144.00 PROJECT ISSUE DATE: March 15, 2021 REV.

0.	DESCRIPTION	DATE

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH **Interior Phasing** Plan 4/26/21



ROOM LEGEND - FIRST FLOOR UNIT A ROOM NO. ROOM NAME AREA (SF) AREA (SF) A166 BUSINESS DIRECTOR A167 ADMIN. ASST. A168 CORRIDOR 60 SF 345 SF A169 OPEN AREA A170 PURCHASING 237 SF 280 SF A171 ACCOUNTS PAYABLE 309 SF 405 SF A172 OFFICE 169 SF A173 CONFERENCE A174 OFFICE 189 SF A175 OFFICE 143 SF A176 CONFERENCE 172 SF 26 SF 167 SF A177 WORKROOM 297 SF A178 OFFICE 196 SF 165 SF A179 DIRECTOR'S OFFICE 291 SF 168 SF A180 OFFICE A181 HUMAN RESOURCE 436 SF 219 SF 546 SF RECEPTION A182 STORAGE 935 SF Room 57 SF A182A GENERAL STORAGE 2839 SF 304 SF A182B GENERAL STORAGE A182C OFFICE
A182D WAREHOUSE EXPANSION 567 SF A182E RESTROOM 196 SF 28 SF A182F FREEZER 978 SF 124 SF A182G COOLER 602 SF 198 SF A183 ADMIN. ASST 145 SF 235 SF A184 CORRIDOR 107 SF A185 SUPERVISOR OF LEARNING 119 SF A186 SUPERVISOR OF LEARNING A187 SUPERVISOR OF LEARNING A188 CONFERENCE 174 SF A189 ADMIN. ASST. 130 SF 120 SF A190 INST. COACH & CONF. 132 SF 129 SF A191 NETWORK ADMINISTRATOR 144 SF A192 DATA BASE ADMIN. 145 SF A193 COMPUTER TECH. 1 A194 TECH II HELP 145 SF
A195 DIRECTOR OF TECHNOLOGY & 257 SF DATA SOLUTIONS 56 SF A196 COORD. TECH. SERVICES 150 SF A197 TRAINING & DEVELOPMENT 74 SF SPECIALIST 134 SF A198 WIRELESS NETWORK 575 SF INFRASTRUCTURE SPECIALIST A199 COMPUTER TECH. 1 147 SF

VENTILATION PLAN GENERAL NOTES

ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE NOTED.

B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.

C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR

EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES. SIDEWALKS. STREETS

MATCH EXISTING SURFACES, SIDEWALKS, STREETS,
FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.

F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN
ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT
SIZES SHOWN ARE INSIDE DIAMETERS.

G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH,
SERVING DIFFUSER, GRILLE AND REGISTER.

H. INSTALL WALL THERMOSTATS, TEMPERATURE
SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH

I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.

J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.

FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.

LAYOUT.

PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.

THE SUPPLY AIR DUCTWORK DOWNSTREAM OF THE VAV SHALL BE AN INTERNALLY LINED, SIZED AT 8X10 UNLESS OTHERWISE NOTED.

VENTILATION PLAN NOTES

REFER TO DETAIL.

WITH BIRDSCREEN.

VIBRATION ISOLATION.

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

V2 ACOUSTICALLY LINED AIR TRANSFER SOUND

INSTALLED BY HVAC CONTRACTOR.

APPROXIMATE LOCATION OF DUCT STATIC PRESSURE SENSOR. SENSOR PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND

TRAP. EXTEND DUCTWORK UP TO PROVIDE NO LINE OF SITE FROM OPENING TO OPENING.

INSULATED SHEET METAL PLENUM MOUNTED BEHIND WALL LOUVER. TRANSITION BOTTOM OF DUCT AT A SLOPE DOWNWARD TO WALL LOUVER. SEAL ALL SEAMS AND EDGES WATER TIGHT. WRAP PLENUM WITH INSULATION.

INSTALL DRIP PAN UNDER WALL LOUVER. PAN

THE CEILING. OPENING TO BE PROTECTED

REMOTE MOUNTED RETURN AIR CONTROL

REMOTE MOUNTED OUTSIDE AIR CONTROL

V10 SUPPORT UNIT HEATER FROM STRUCTURE ABOVE OR ADJACENT WALL WITH

11 INSTALL EQUIPMENT ON A CONCRETE PAD.
COORDINATE EXACT LOCATION AND
INSTALLATION WITH ALL TRADES

V12 LOCATION OF TEMPERATURE CONTROL SYSTEM BUILDING CONTROL PANEL.

SUPPORT UNIT FROM STRUCTURE ABOVE WITH THREADED ROD, SUPPLEMENTAL STEEL AND

SUPPLEMENTAL STEEL AND THREADED ROD WITH VIBRATION ISOLATORS AS REQUIRED. MOUNT BOTTOM OF UNIT AT 9'-0" AFF.

SHALL BE SEALED WATER TIGHT. DRIP PAN TO

EXTEND A MINIMUM OF 6" BEYOND DUCTWORK.

V6 END OF DUCT OPEN TO PLENUM SPACE ABOVE

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ARCHITECT

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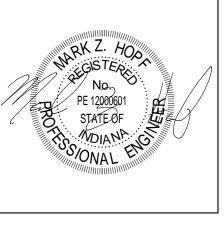
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UNIT A REMODEL NEW ADDITION

UNIT B

KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: MZH
PROJECT NUMBER: 220144.00
PROJECT ISSUE DATE: March 15, 2021
REV.

REV. NO. DESCRIPTION DAT

1 ADDENDUM #2 04/26/

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED,

CONTACT THE ARCHITECT BEFORE PROCEEDING WITH

FIRST FLOOR VENTILATION PLAN -UNIT A

M2.01



FIRST FLOOR VENTILATION PLAN

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

	EXTER	RIOR WALL LOUVER SCH	EDULE	
MARK	SIZE W X H	TOP OF LOUVER ELEVATION	TYPE	NOTES
WL-A1	64"x16"	10'-8"	WL-1	1,2,3,4,5

1. REFER TO SPECIFICATION SECTION 08900. 2. SEAL ALL AROUND WITH SILICONE.

3. REFER TO INSTALLATION DETAILS ON ARCHITECTURAL AND MECHANICAL DRAWINGS.

4. CUSTOM COLOR AS SELECTED BY ARCHITECT. REFER TO DIVISION 9, LIST OF FINISHES.

4. COSTOM COLOR AS SELECTED BY ARCHITECT. REFER
5. COORDINATE SIZE AND LOCATION WITH ALL TRADES.

			(NOT ALL GRII	LE TYPES MAY BE U	SED IN THIS S	ET OF PROJEC	T DOCUMENTS)	
MARK	TYPE	NECK SIZE	OVERALL SIZE L"xW"	MAX CORE/ NECK VEL.(FPM)	MAX. CFM	MAX. NOISE CRITERIA	FRAME/ MOUNTING	REMARKS
A	SQUARE PLAQUE CEILING DIFFUSER	5"	12"x12"	800	100	21	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
В	SQUARE PLAQUE CEILING DIFFUSER	6"	12"x12"	800	150	21	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
С	SQUARE PLAQUE CEILING DIFFUSER	6"	24"x24"	800	150	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
D	SQUARE PLAQUE CEILING DIFFUSER	8"	24"x24"	800	300	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
Е	SQUARE PLAQUE CEILING DIFFUSER	10"	24"x24"	800	425	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
F	SQUARE PLAQUE CEILING DIFFUSER	12"	24"x24"	800	625	23	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
G	SQUARE PLAQUE CEILING DIFFUSER	14"	24"x24"	700	750	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
Н	RETURN/AIR TRANSFER GRILLE	6"x6"	8"x8"	600	175	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
I	RETURN/AIR TRANSFER GRILLE	10"x10"	12"x12"	500	375	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
J	RETURN/AIR TRANSFER GRILLE	14"x14"	16"x16"	500	650	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
K	RETURN/AIR TRANSFER GRILLE	16"x16"	18"x18"	500	850	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
L	RETURN/AIR TRANSFER GRILLE	22"x10"	24"x12"	500	910	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
М	RETURN/AIR TRANSFER GRILLE	22"x22"	24"x24"	500	1300	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
N	SIDEWALL- SUPPLY GRILLE	-	SEE FLOOR PLANS FOR SIZE	500	PER PLANS	20	DUCT OR SIDEWALL: REFER TO FLOOR PLAN	45 (DEGREE) DEFLECTION, UNLESS NOTED OTHERWISE ON FLOOR PLAN
0	SIDEWALL- RETURN GRILLE	-	SEE FLOOR PLANS FOR SIZE	300	PER PLANS	20	DUCT OR SIDEWALL: REFER TO FLOOR PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
Р	HEAVY DUTY SUPPLY GRILLE	-	SEE FLOOR PLANS FOR SIZE	-	PER PLANS	20	DUCT OR SIDEWALL: REFER TO FLOOR PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
Q	HEAVY DUTY RETURN GRILLE	-	SEE FLOOR PLANS FOR SIZE	-	PER PLANS	20	DUCT OR SIDEWALL: REFER TO FLOOR PLAN	FIXED 38 (DEGREE) DEFLECTION BLADES
R	EGGCRATE GRILLE	-	12"x12"	600	1100	20	REFER TO REFLECTED CEILING PLAN	PROVIDE STEEL SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
S	EGGCRATE GRILLE	-	24"x12"	600	600	20	REFER TO REFLECTED CEILING PLAN	PROVIDE STEEL SURFACE MOUNT BORDEF FOR DUCTED INSTALLATIONS.

	AIR HANDLING/HEAT RECOVERY UNIT SCHEDULE																										
	FANS																										
	SUPPLY EXHAUST								DX	COOLING	COII				HEATIN	NG COII	(EWT 180	 วง									
		NORMAL	MAX.																1					(= 111 10	,	1	NOTES
MARK	CFM	O.A.	O.A.	EXT.	TOTAL	HP	TYPE	ELEC.	CFM	EXT.	TOTAL	HP	TYPE	ELEC.	EAT	LAT		G LOAD	APD	EAT	LAT	MBH	GPM	LWT	WPD	APD	
	0.11	CFM	CFM	S.P.	S.P.				01 111	S.P.	S.P.						SENS.	TOTAL	, <u>_</u>				<u> </u>			, <u>_</u>	
AHU-A1	2,750	500	2,750	2.25	4.45	5.0	PLENUM	208/3							78.0	53.5	73.2	99.1	0.498	59.3	85.0	88.6	8.8	160	0.29	0.08	1,2,3,4,5,6,7,8,9,10,11,12

1. SINGLE POINT ELECTRICAL CONNECTION TO UNITS.

2. REFER TO SPECIFICATION SECTION 237313.

3. MAXIMUM HEATING COIL FACE VELOCITY SHALL BE 511 FPM.

4. MAXIMUM FILTER FACE VELOCITY SHALL BE 500 FPM.

5. MAXIMUM COOLING COIL FACE VELOCITY SHALL BE 500 FPM.

VFC SHALL BE PROVIDED BY AHU MANUFACTURER. 8. INSTALL HEATING COIL IN A RE-HEAT POSITION.

6. REFER TO PLANS & SCHEMATICS FOR UNIT LAYOUT DETAILS.

9. PROVIDE CONVENIENCE OUTLET AND LIGHTS ON A SEPARATE CIRCUIT.

7. VARIABLE FREQUENCY CONTROLLER (VFC) SHALL BE PROVIDED ON SUPPLY FAN.

10. TOTAL STATIC PRESSURE REFLECT AVERAGE DIRTY FILTERS.

11. BASIS OF DESIGN: TRANE CSAA006.

12. SUMMER: INDOOR: 75°db/50% RH OUTDOOR: 91.3°db/75.0°wb WINTER:

INDOOR: 72.0°db OUTDOOR: 2.6°db

	CABINET/PROPELLER UNIT HEATER SCHEDULE												
AA DI	0514	FAN SPEED (RPM)	LID				HEATING	3			ELEC	MODEL	
//ARK	CFM	(RPM)	HP	MBH	EAT	LAT	EWT	GPM	WPD	WTD	SERV	NO.	NOTES
PUH-A1	310	LOW	1/30	8.3	60.0	84.6	180.0	0.8	0.2	20.0	115/1	RH-18	1,2,3,4,5,6
NOTES													

1. UNIT SCHEDULED AS MANUFACTURED BY RITTLING. 2. INCLUDE FACTORY MOUNTED DISCONNECTS.

3. REFER TO SPECIFICATION SECTION 238239.

4. UNIT SHALL BE SELECTED USING THE LOW SPEED FAN SETTING.

5. SUPPORT HEATER FROM STRUCTURE ABOVE WITH MINIMUM OF TWO (2), 3/8" DIAMETER THREADED RODS. ADD VIBRATION ISOLATORS.

6. UNIT FURNISHED WITH ADJUSTABLE LOUVER FIN DIFFUSERS TO PROVIDE FOUR-DIRECTION AIR FLOW CONTROL.

* FAN CONTROL LEGEND

24 - 24 HOUR CONTINUOUS.

M - MANUAL TIMER SWITCH CONTROL BY DIVISION 26.

F - INTERLOCK WITH FUME HOOD BY DIVISION 26.

T - THERMOSTAT TO CONTROL FAN OPERATION; CONTROL BY T.C.C.

A - AUTOMATIC CONTROL BY T.C.C.; REFER TO SEQUENCE OF OPERATION.

	EXHAUST FAN SCHEDULE												
MARK	FAN TYPE	CFM	TOTAL S.P. (IN.)	FAN RPM	MAX. NOISE LEVEL (SONES)	DRIVE TYPE		TOR DA		SERVICE	EXAMPLE MANUFACTURER MODEL NO.	FAN CONTROL *	NOTES
			((00.120)							^	
EF-A1	ROOF MOUNTED CENTRIFUGAL	700	0.200	1,113	7.4	DIRECT	1/6	115	1	A182D WAREHOUSE	G-099-B	Α	2,3,4,6,7,8

ACCU-A1

1. SUPPORT FROM STRUCTURE ABOVE WITH THREADED ROD AND VIBRATION ISOLATORS.

2. PROVIDE BACKDRAFT DAMPER.

3. PROVIDE FACTORY-INSTALLED VARIABLE SPEED CONTROLLER.

4. INCLUDE FACTORY MOUNTED DISCONNECT SWITCH.

5. INSTALL EXHAUST FAN ON EXISTING ROOF CURB.

6. MOUNT ON 12" HIGH ROOF CURB.

7. REFER TO SPECIFICATION SECTION 233423 FOR ADDITIONAL REQUIREMENTS. 8. COLOR SHALL BE PROVIDED FROM MANUFACTURER'S FULL RANGE OF COLORS AS SELECTED BY A/E.

MARK	PRIMARY CFM	MIN PRIMARY CFM	MBH	GPM	INLET DIA	INLET SP.	EWT	LWT	LAT	HEATING COIL ROWS
VAV-A1	125	63	7.25	0.72	5	0.78	180	160	108.5	1
VAV-A2	150	75	8.01	0.80	5	0.79	180	160	104.2	1
VAV-A3	150	75	8.01	0.80	6	0.65	180	160	104.2	1
VAV-A4	150	75	8.01	0.80	5	0.75	180	160	104.2	1
VAV-A5	150	75	8.01	0.80	5	0.75	180	160	104.2	1
VAV-A6	250	125	10.67	1.07	5	0.50	180	160	94.35	1
VAV-A7	300	150	12.36	1.57	6	0.63	180	164.3	93.0	1
VAV-A8	150	75	8.01	0.80	5	0.77	180	160	104.2	1
VAV-A9	150	75	8.01	0.80	5	0.78	180	160	104.2	1
VAV-A10	150	75	8.01	0.80	5	0.77	180	160	104.2	1
VAV-A11	150	75	8.01	0.80	5	0.76	180	160	104.2	1
VAV-A12	150	75	8.01	0.80	6	0.76	180	160	104.2	1
VAV-A13	400	200	24.55	2.45	6	0.56	180	160	111.6	2

1. REFER TO PROJECT MANUAL.

2 UNIT SELECTION MUST ALLOW FOR A MINIMUM 0F 0.50" DOWNSTREAM STATIC PRESSURE.

3. 120/1 VOLT ELEGTRICAL SERVICE WILL BE SUPPLIED TO EACH UNIT BY ELECTRICAL CONTRACTOR REFER TO DETAILS.

4. UNIT MANUFACTURER SHALL PROVIDE REQUIRED HANGING BRACKETS TO PROPERLY

5. HEATING COIL LOADS CALCULATED WITH SCHEDULED EWT AND 55°EAT, AT PRIMARY AIRFLOW.

6. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.

7. HEATING COIL DESIGN BASED ON HIGH-EFFIECIENCY, HOT WATER COIL, UNLESS OTHERWISE

RELIEF HOOD/INTAKE HOOD SCHEDULE

8. COILS SHALL BE SELECTED WITH 10' WPD MAXIMUM.

9. NOISE LEVELS ARE NOT TO EXCEED 20 NC.

	AIR-COOLED CONDENSING UNIT SCHEDULE									
OMINAL TONS	SUCTION TEMP	AMBIENT TEMP	EER	MCA	SERVICE	MANUFACTURER & MODEL NO.	NOTES			
10.0	45.0	95.0	11.4	41.0	208/3	TRANE TTA120	1,2,3,4,5,6,7			

NOTES: 1. UNIT SHALL BE GROUND MOUNTED ON CONCRETE SUPPORT PAD.

2. REFER TO PROJECT MANUAL SECTION 236200.

110.0

3. INCLUDE THE FOLLOWING ACCESSORIES, HIGH AMBIENT UNLOADER PRESSURESTAT, PROTECTIVE COIL GUARDS, PHASE LOSS/VOLTAGE PROTECTION, STANDARD AMBIENT CONTROL, AND VIBRATION ISOLATORS.

4. UNIT SELECTED WITH R-410A REFRIGERANT.

5. INSTALL REFRIGERANT PIPING SIZE AND QUANTITY PER MANUFACTURERS REQUIREMENTS.

7. PROVIDE COMPRESSOR BLANKETS FOR SOUND ATTENUATION.

6. PROVIDE CONVENIENCE OUTLET ON A SEPARATE CIRCUIT.

1. MOTORIZED TEMPERATURE CONTROL DAMPER(S) FURNISHED BY T.C.C., INSTALLED BY SHEETMETAL CONTRACTOR.

2. GRAVITY BACK-DRAFT DAMPER FURNISHED BY HOOD MANUFACTURER, INSTALLED BY SHEETMETAL CONTRACTOR.

LOCATION

A138A CORRIDOR

3. INTAKE AREA OF THE HOOD SHALL BE TWICE THE THROAT AREA.

4. REFER TO PROJECT MANUAL SECTION 233723. 5. COLOR SHALL BE PROVIDED FROM MANUFACTURER'S FULL RANGE OF COLORS AS SELECTED BY ARCHITECT/ENGINEER.

6. UNITS TO BE PROVIDED WITH A HINGED BASE KIT.

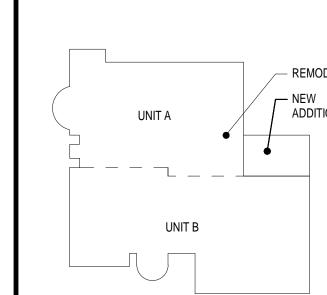
RELIEF

MARK

RTV-A1

	VAV REHEAT TERMINAL SCHEDULE											
MARK	PRIMARY CFM	MIN PRIMARY CFM	MBH	GPM	INLET DIA	INLET SP.	EWT	LWT	LAT	HEATING COIL ROWS		
VAV-A1	125	63	7.25	0.72	5	0.78	180	160	108.5	1		
VAV-A2	150	75	8.01	0.80	5	0.79	180	160	104.2	1		
VAV-A3	150	75	8.01	0.80	6	0.65	180	160	104.2	1		
VAV-A4	150	75	8.01	0.80	5	0.75	180	160	104.2	1		
VAV-A5	150	75	8.01	0.80	5	0.75	180	160	104.2	1		
VAV-A6	250	125	10.67	1.07	5	0.50	180	160	94.35	1		
VAV-A7	300	150	12.36	1.57	6	0.63	180	164.3	93.0	1		
VAV-A8	150	75	8.01	0.80	5	0.77	180	160	104.2	1		
VAV-A9	150	75	8.01	0.80	5	0.78	180	160	104.2	1		
VAV-A10	150	75	8.01	0.80	5	0.77	180	160	104.2	1		
VAV-A11	150	75	8.01	0.80	5	0.76	180	160	104.2	1		
VAV-A12	150	75	8.01	0.80	6	0.76	180	160	104.2	1		
VAV-A13	400	200	24.55	2.45	6	0.56	180	160	111.6	2		
NOTES:												

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CARMEL, INDIANA

KEY PLAN

REMARKS

1,2,4,5,6

GREENHECK

FABRAHOOD "FGR"

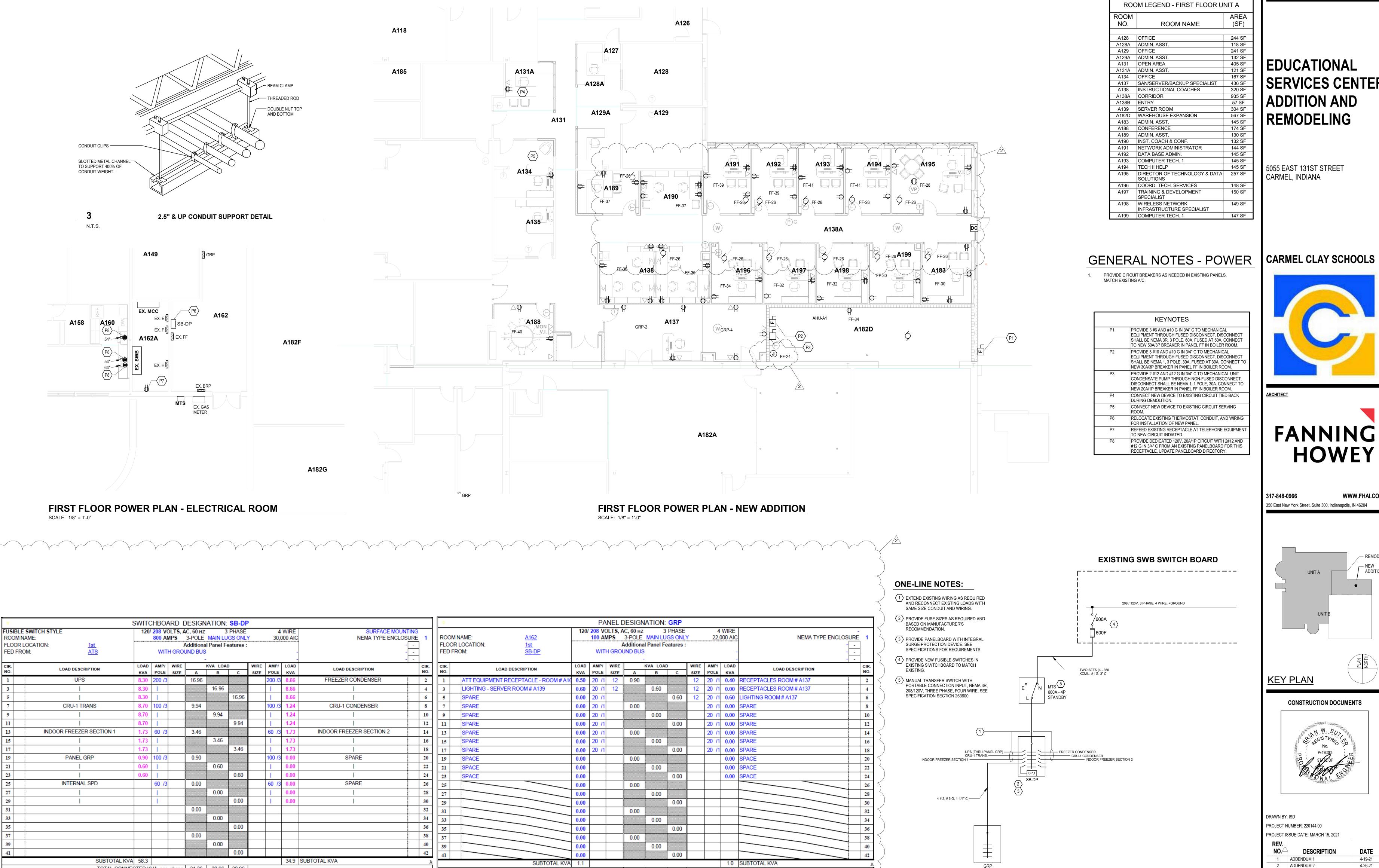
CONSTRUCTION DOCUMENTS



DRAWN BY: MZH PROJECT NUMBER: 220144.00 PROJECT ISSUE DATE: March 15, 2021

MECHANICAL SCHEDULES

M5.01



TOTAL CONNECTED KVA per phase 0.90 0.60 0.60

5.8 TOTAL CONNECTED AMPS

ONE-LINE DIAGRAM

NO SCALE

5.2 TOTAL DEMAND AMPS

TOTAL CONNECTED KVA 2.1

TOTAL DEMAND KVA 1.9

TOTAL CONNECTED KVA per phase 31.26 30.96 30.96

258.6 TOTAL CONNECTED AMPS

35.8 TOTAL DEMAND AMPS

TOTAL CONNECTED KVA 93.2

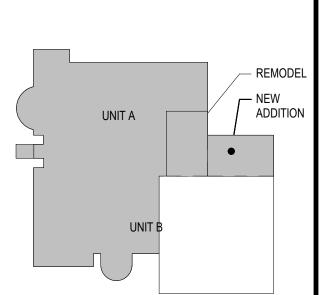
TOTAL DEMAND KVA 12.9

SERVICES CENTER **ADDITION AND**

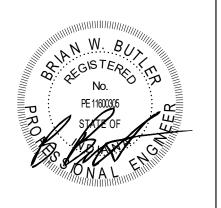
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CONSTRUCTION DOCUMENTS



REV. NO.	DESCRIPTION	DATE
1	ADDENDUM 1	4-19-21
2	ADDENDUM 2	4-26-21

FIRST FLOOR POWER PLAN - NEW ADDITION AND ELECTRICAL ROOM