Addendum 01 for RFQ933500-01

Project Name: DPS Oran Pape Intel Ops Room Remodel
DAS RFQ #: 933500-01
DAS Project #: 9335.00
Date: 6/14/2023

Bids Due: June 22nd, 2023 at 2:00 PM CST

Contents:

- Cover Page (2 pages)
- Re-issued drawing sheets (4 pages)

Clarifications to bid documents

Drawings:

Cover

1. **ADD** to List of Drawings after Sheet A1.2 as follows:
   FIRE PROTECTION
   FP1.0 FIRE PROTECTION

Sheet A1.1 DEMOLITION, FLOOR, AND REFLECTED CEILING PLANS

2. **MODIFY** detail 1 title to “FIFTH FLOOR – FLOOR PLAN”
3. **MODIFY** detail 4 title to “FIFTH FLOOR – REFLECTED CEILING DEMOLITION PLAN”

Sheet FP1.0 FIRE PROTECTION

4. **ADD** sheet FP1.0 FIRE PROTECTION

Sheet M1.0 FIFTH FLOOR VENITLATION PLAN

5. **MODIFY** Keynote #1 to read “MOUNT TRANSFER GRILLE 1’-8” ABOVE FINISHED FLOOR.”
6. **MODIFY** Keynote #3 to read “FURNISH AND INSTALL NEW EF-1 AND 12"X10" EXHAUST DUCT FROM EXISTING OPENING TO EF INLET, TO BE CONTROLLED BY 120V COOLING THERMOSTAT SET AT 80 DEGREES F.”
7. **MODIFY** Keynote #4 to read “MOUNT TRANSFER GRILLE 10'-0" ABOVE FINISHED FLOOR. FURNISH AND INSTALL LINED TRANSFER DUCT ELBOW.”
8. **ADD** Keynote # 13 to read “REMOVE AND DISPOSE OF EXISTING TRANSFER GRILLE AND SMOKE DAMPER.”
9. **ADD** Keynote # 14 to read “MODIFY THE MINIMUM POSITION OF VAV-504 TO 215 CFM AND THE MINIMUM POSITION OF VAV-509 TO 335 CFM.”
10. **ADD** Keynote # 15 to read “EXISTING TRANSFER GRILLE TRANSFERRING 300 CFM INTO NEW OFFICE SPACE.”
11. **ADD** Keyed Note #13 to FLOOR PLAN.
12. **ADD** Keyed Notes #14 to FLOOR PLAN.
13. **ADD** Keyed Note #15 to FLOOR PLAN.
14. **MODIFY** AIR DEVICE SCHEDULE to read MARK T1 as “0.01” MAX. AIR P.D. (IN. W.C.).
15. **MODIFY** AIR DEVICE SCHEDULE to read MARK T1 as “12X12” FACE SIZE.
16. **MODIFY** AIR DEVICE SCHEDULE to read MARK T2 as “0.02” MAX. AIR P.D. (IN. W.C.).

17. **MODIFY** AIR DEVICE SCHEDULE to read MARK T2 as “30X6” FACE SIZE.
18. **ADD** EXHAUST FAN SCHEDULE.
19. **MODIFY** FLOOR PLAN to show transfer ducts T2 as 30x6 as shown in AIR DEVICE SCHEDULE.
20. **MODIFY** FLOOR PLAN to show transfer ducts T1 as 12x12 as shown in AIR DEVICE SCHEDULE.
21. **ADD** 30x6 lined transfer duct elbows to FLOOR PLAN.
22. **ADD** new 12x10 ductwork with elbow to FLOOR PLAN.
23. **ADD** new Exhaust Fan EF-1 with equipment tag to FLOOR PLAN.

Sheet E2.5 FIFTH FLOOR POWER PLAN

24. **ADD** EF-1 and LINE VOLTAGE COOLING THERMOSTAT to drawing.

Sheet E5.1 ELECTRICAL SCHEDULES AND DETAILS

25. **ADD** CKT 39 “EF-1” to EXISTING PANELBOARD M5.

DEMOLITION NOTES

A. LOCATIONS SHOWN FOR EXISTING FIRE PROTECTION PIPE AND EQUIPMENT ARE APPROXIMATE. THE CONTRACTOR IS TO FIELD VERIFY THE EXACT LOCATIONS OF EXISTING FIRE PROTECTION LINES AND EQUIPMENT INCLUDING RISERS AND VALVES PRIOR TO THE START OF WORK.

B. COORDINATE WITH OWNER FOR ANY SHUTDOWNS OR PLANNED INTERRUPTIONS OF THE FIRE PROTECTION SERVICE. THE CONTRACTOR SHALL GIVE THE OWNER THREE (3) DAYS NOTICE PRIOR TO THE PLANNED SHUTDOWN OR INTERRUPTION.

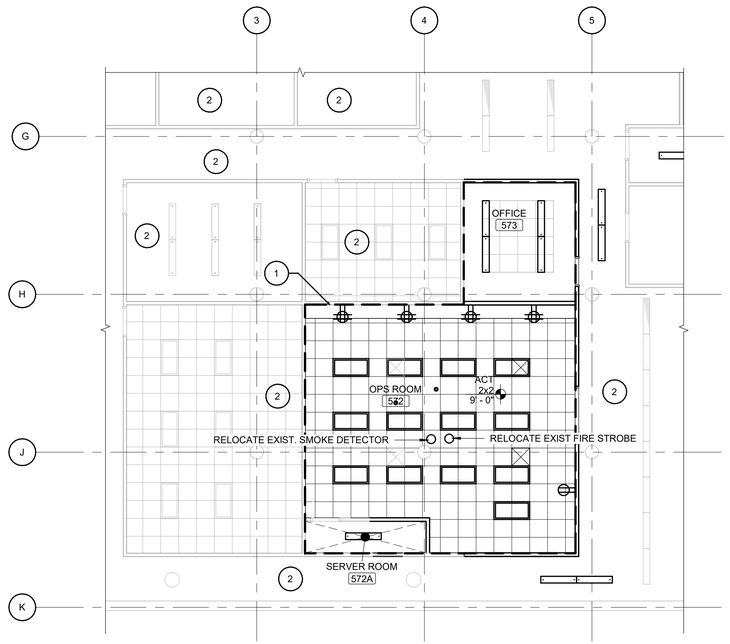
C. COORDINATE DEMOLITION OF FIRE PROTECTION PIPING WITH OTHER PIPING WHICH IS NOT TO BE REMOVED. PROTECT OTHER PIPING WHICH IS NOT TO BE REMOVED FROM DAMAGE, DIRT, AND DEBRIS.

D. ALL FIRE PROTECTION RELATED EQUIPMENT AND PIPING WHICH IS REMOVED FROM THE BUILDING IS TO BE TAKEN OFFSITE AND DISPOSED OF.

KEYED NOTES (#)

1. EXISTING SPRINKLER COVERAGE SERVING SPACE IS TO BE MODIFIED AS NECESSARY TO SERVE NEW HEADS THROUGHOUT WORK AREA.
2. COVERAGE IN ADJACENT AREAS NOT IN SCOPE OF WORK.

THE FIRE PROTECTION DRAWING IS DESIGNED TO BE IN CONFORMANCE WITH NFPA 13. IT IS A PERFORMANCE BASED DRAWING INDICATING THE EXTENT OF FIRE PROTECTION WORK FOR THE AREA THAT THIS DRAWING REPRESENTS. THIS DRAWING IS "FOR INFORMATION ONLY", AS A REFERENCE FOR THE FIRE PROTECTION CONTRACTOR TO BASE THE DESIGN OF THE FIRE PROTECTION SYSTEM ON. THE CONTRACTOR SHALL VERIFY THE EXACT CONDITIONS THAT THIS DRAWING REPRESENTS, INCLUDING ANY PERCEIVED CONCEALED SPACES, AND THE BUILDING TYPE AND CONSTRUCTION AS OUTLINED IN THE INTERNATIONAL BUILDING CODE, PRIOR TO THE START OF WORK. REFER TO THE INTERNATIONAL BUILDING CODE, ESPECIALLY CHAPTERS 6 (TYPES OF CONSTRUCTION) AND CHAPTER 9 (FIRE PROTECTION SYSTEMS), NFPA 13, AND THE PROJECT SPECIFICATIONS FOR OTHER FIRE PROTECTION REQUIREMENTS.



GENERAL NOTES

A. THE FIRE PROTECTION CONTRACTOR SHOULD USE NFPA-13 (CURRENT EDITION), "PLANS AND CALCULATIONS" AS A GUIDELINE WHEN PREPARING SUBMITTALS FOR REVIEW. DISREGARD ONLY THOSE ITEMS NOT APPLICABLE TO THE INDIVIDUAL BUILDING SYSTEM. FIRE PROTECTION MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13 FOR THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEM.

B. THE FIRE PROTECTION CONTRACTOR SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE (LATEST ADOPTED EDITION). INSTALLATION SHALL MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

C. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ROOM FINISH SCHEDULE WHICH INDICATE CEILING HEIGHTS. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLAN FOR PROPOSED LOCATION OF SPRINKLER HEADS IN AREAS WITH CEILINGS. LOCATE HEADS IN AREAS WITHOUT CEILINGS AS REQUIRED BY IFC. NFPA AND AUTHORITY HAVING JURISDICTION REQUIREMENTS FOR THE APPROPRIATE HAZARD CLASSIFICATION.

D. THIS FACILITY SHALL BE A TOTALLY SPRINKLERED BUILDING. FIRE SUPPRESSION SYSTEM SHALL BE WET PIPE TYPE SYSTEM WITH COMPLETE SPRINKLER PROTECTION UNLESS NOTED OTHERWISE. SYSTEM TO BE DESIGNED AS REQUIRED BY IFC, NFPA, AND AUTHORITY HAVING JURISDICTION REQUIREMENTS FOR THE APPROPRIATE HAZARD CLASSIFICATION.

E. SPRINKLER HEAD LAYOUTS INDICATED ARE BASED ON OCCUPANCY HAZARD CLASSIFICATIONS OUTLINED IN NFPA-13 STANDARDS, GENERALLY, PUBLIC / OFFICE AREAS ARE BASED ON "LIGHT HAZARD", AND STORAGE / MECHANICAL AREAS ARE BASED ON "ORDINARY HAZARD". EXTENDED COVERAGE DISTRIBUTION IS NOT INDICATED, BUT MAY BE UTILIZED WHERE SPACE MEETS REQUIREMENTS SET FORTH IN NFPA-13.

F. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HYDRAULICALLY CALCULATE SPRINKLER REQUIREMENTS PER THE APPROPRIATE HAZARD OCCUPANCY AND PROVIDE ACTUAL NUMBER OF HEADS, REQUIRED SPACING AND PIPE ROUTING AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS AND OTHER TRADES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH IFC, NFPA AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.

G. FIRE PROTECTION CONTRACTOR SHOULD OBTAIN FLOW TEST DATA INDICATING THE WATER FLOW AND PRESSURE AVAILABLE TO THE FACILITY OR MAKE ARRANGEMENTS TO HAVE A FLOW TEST PERFORMED. FIRE PROTECTION CONTRACTOR TO INCLUDE IN THEIR BID, ALL COSTS ASSOCIATED WITH FLOW TEST. SUBMIT HYDRAULIC CALCULATIONS AND PLANS RELATED TO A MINIMUM OF 1 REMOTE AREA FOR REVIEW.

H. PIPING IS SHOWN IN SCHEMATIC FORM TO INDICATE APPROXIMATE ARRANGEMENT OF EQUIPMENT AND PIPING. SPRINKLER CONTRACTOR SHALL DESIGN THE SYSTEM AND ROUTE PIPING AS REQUIRED FOR CONFORMANCE WITH ACTUAL BUILDING CONDITIONS AND NFPA REQUIREMENTS. COORDINATE SPRINKLER WORK WITH ALL OTHER TRADES TO AVOID CONFLICT.

I. SUPPORT ALL NEW PIPING AND EQUIPMENT FROM STRUCTURE ABOVE AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTAL STEEL TO SPAN BETWEEN PRIMARY BUILDING STRUCTURAL MEMBERS. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE DESIGN OF SUPPLEMENTAL STEEL AND SUPPORTS INCLUDING REACTION LOADS AT PRIMARY BUILDING STRUCTURAL MEMBERS.

J. PROVIDE SPRINKLER HEADS IN CONCEALED LOCATIONS PER NFPA REQUIREMENTS.

K. DURING CONSTRUCTION PROCEDURES, THE ENTIRE WORK AREA SHALL BE CLEAN OF ALL DUST, DIRT, AND OTHER DEBRIS BEFORE APPLICATION OF ANY NEWMATERIALS.

L. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF THE WORK AND ARE NOT INTENDED TO SHOW OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF CONTRACT DOCUMENTS.

M. PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, ETC. REQUIRED FOR COMPLETE AND FUNCTIONAL SYSTEM AS SPECIFIED AND INDICATED ON THE DRAWINGS.

N. INCLUDE IN BID, ALL LICENSE, PERMIT, INSPECTION, AND OTHER FEES REQUIRED BY UTILITY COMPANIES OR AUTHORITIES HAVING JURISDICTION REQUIRED FOR COMPLETION OF WORK SO NO ADDITIONAL EXPENSES ARE INTRODUCED TO OWNER.

O. PROMPTLY INFORM THE ENGINEER, IN WRITING, OF ANY DEVIATIONS IN THE CONTRACT DOCUMENTS FROM REQUIREMENTS OF LOCAL UTILITIES, MUNICIPALITIES, STATE OR FEDERAL LAWS AND REGULATIONS. PERFORM WORK IN ACCORDANCE WITH SUCH REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.

P. FIRE PROTECTION CONTRACTOR SHALL SUBMIT ONE COMPLETE SET OF AUTOMATIC SPRINKLER SYSTEM DRAWINGS, HYDRAULIC CALCULATIONS, CURRENT WATER FLOW TEST, AND THE EQUIPMENT DATA BROCHURES PREPARED BY OR UNDER THE SUPERVISION OF, AND SEALED BY A PROFESSIONAL ENGINEER. THE SUBMITTAL SHALL BE SENT TO ALL AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL. SYSTEM SHALL ALSO BE IN COMPLIANCE WITH ALL REQUIRED PLUMBING CODES.

Q. ALL EXPENSES CARRIED BY THE A/E IN TROUBLESHOOTING SYSTEM(S) PROBLEMS CAUSED BY INADEQUATE WORKMANSHIP, LACK OF TECHNICAL EXPERTISE OR OTHER FORMS OF POOR PERFORMANCE ON THE PART OF A CONTRACTOR, SHALL BE BORN BY THAT CONTRACTOR.

R. PROVIDE FIRE STOP / SEALANT AT ALL PIPE PENETRATIONS THROUGHOUT FIRE RATED WALLS. REVIEW ARCHITECTURAL PLANS PRIOR TO BIDDING AND INDICATE FIRE-RATED PENETRATION LOCATIONS ON SPRINKLER LAYOUT SUBMITTAL.

S. FIRE PROTECTION CONTRACTOR SHALL FURNISH AND INSTALL ARMOVER SUPPORTS FOR ALL END OF LINE BRANCH LINES PER NFPA-13, SECTION: 9.2.3.4. REFER TO A.9.2.3.4.3(B) FOR ACCEPTABLE.

T. ALL DROPS TO SPRINKLER HEADS SHALL TEE / ELBOW OFF TOP OF BRANCH PIPE, EXCEPT WHERE STRUCTURAL, ARCHITECTURAL OR MECHANICAL EQUIPMENT CONDITIONS PRECLUDE CONVENTIONAL INSTALLATION.

U. SPRINKLER HEADS SHALL BE IN A SYMMETRICAL PATTERN, NOT NECESSARILY IN THE CENTER OF ROOMS, CORRIDORS OR CEILING TILE.

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#	DATE:	DESCRIPTION:
1	06/14/2023	Addendum No. 01

△1

100% CD SET

PROJECT:

Iowa State Capitol Complex

ORAN PAPE CONFERENCE ROOM

215 E. 7TH Street, Des Moines, IA

DATE:	05/05/2023
DESIGNED:	DAH
DRAWN:	MB
REVIEWED:	DAH

SHEET TITLE:

FIRE PROTECTION

SHEET NUMBER:

FP1.0

PROJECT NO.: 0230377.00

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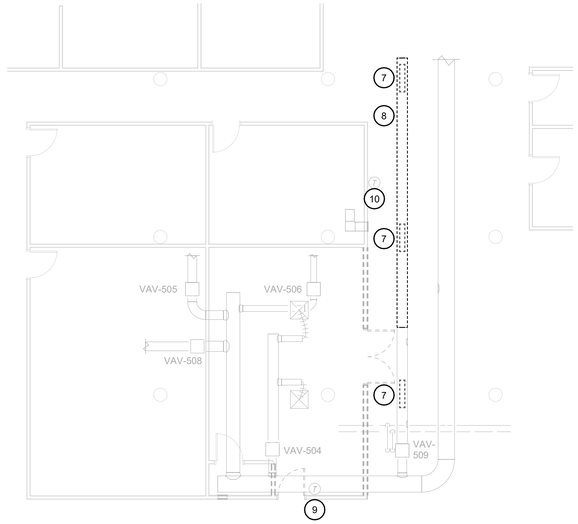
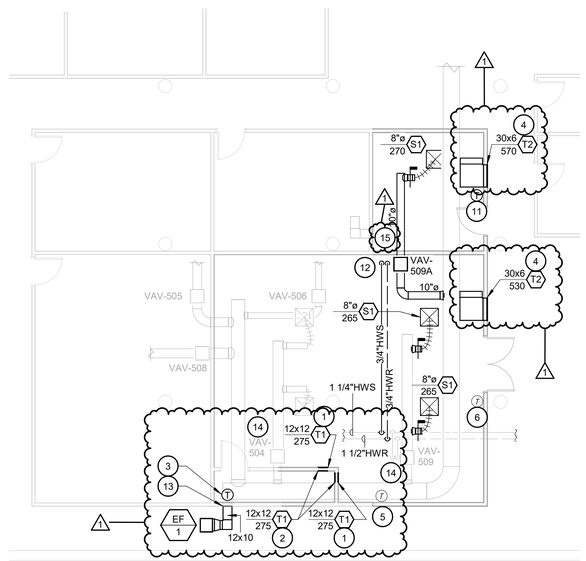


2 MECHANICAL DEMOLITION PLAN

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

0 4 8 16

TRUE NORTH



1 FLOOR PLAN

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

0 4 8 16

TRUE NORTH

GENERAL NOTES

1. TEST AND BALANCE AIR AND WATER SYSTEMS TO CFM AND GPM SHOWN.
2. ALL CONTROL WORK TO BE DONE BY EXISTING CONTROL SYSTEM MANUFACTURER.

KEYNOTES (#)

1 MOUNT TRANSFER GRILLE 1'-8" ABOVE FINISHED FLOOR.

2 MOUNT TRANSFER GRILLE 0'-6" ABOVE FINISHED FLOOR.

3 FURNISH AND INSTALL NEW EF-1 AND 12"X10" EXHAUST DUCT FROM EXISTING OPENING TO EF INLET, TO BE CONTROLLED BY 120V COOLING THERMOSTAT SET AT 80 DEGREES F.

4 MOUNT TRANSFER GRILLE 10'-0" ABOVE FINISHED FLOOR. FURNISH AND INSTALL LINED TRANSFER DUCT ELBOW

5 NEW LOCATION OF EXISTING THERMOSTAT FOR VAV-504. INSTALL ASSOCIATED CONTROL WIRING BACK TO VAV BOX.

6 NEW LOCATION OF EXISTING THERMOSTAT FOR VAV-509. INSTALL ASSOCIATED CONTROL WIRING BACK TO VAV BOX.

7 REMOVE AND DISPOSE OF EXISTING SLOT DIFFUSERS AND PATCH DUCT WHERE REQUIRED.

8 REMOVE AND DISPOSE OF EXISTING DUCT AS SHOWN AND CAP.

9 EXISTING LOCATION OF THERMOSTAT FOR VAV-504.

10 EXISTING LOCATION OF THERMOSTAT FOR VAV-509.

11 FURNISH AND INSTALL THERMOSTAT FOR VAV-509A. MOUNT 48" AFF.

12 FURNISH AND INSTALL NEW VAV BOX AND RUN NEW 3/4" SUPPLY AND RETURN PIPING FROM EXISTING MAIN. SEQUENCE TO BE THE SAME AS VAV-509. SEE DETAIL 3 THIS SHEET.

13 REMOVE AND DISPOSE OF EXISTING TRANSFER GRILLE AND SMOKE DAMPER.

14 MODIFY THE MINIMUM POSITION OF VAV-504 TO 215 CFM AND THE MINIMUM POSITION OF VAV-509 TO 335 CFM.

15 EXISTING TRANSFER GRILLE TRANSFERRING 300 CFM INTO NEW OFFICE SPACE.

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	STYLE	MAX. N.C.	MAX. AIR P.D. (IN. W.C.)	FACE SIZE	FRAME	FINISH	MATERIAL	REMARKS
S1	TITUS	OMNI-AA	SUPPLY	PLAQUE	30	0.1	24x24	LAY-IN	WHITE	ALUMINUM	
T1	TITUS	50F	TRANSFER	GRILLE	30	0.01	12X12	SURFACE	WHITE	ALUMINUM	
T2	TITUS	50F	TRANSFER	GRILLE	30	0.02	30X6	SURFACE	WHITE	ALUMINUM	
NOTES:											

VARIABLE AIR VOLUME TERMINAL SCHEDULE

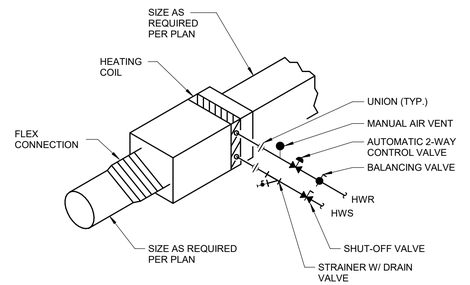
MARK	MANUFACTURER	MODEL	MAX. COOLING CFM	MIN. COOLING CFM	HEATING CFM	MAX. AIR P.D. (IN. W.C.)	MAX. N.C.	REHEAT COIL							INLET SIZE (IN.)	OUTLET SIZE (IN.)	PHYSICAL DATA			REMARKS
								TOTAL CAP. (MBH)	FLOW (GPM)	MAX. FLUID P.D. (FT. W.C.)	EWT (%%DF)	LWT (%%DF)	EAT (%%DF)	LAT (%%DF)			L (IN.)	W (IN.)	H (IN.)	
VAV-509A	TITUS	DESV	270	65	65	0.5	30	4.1	0.3	0.1	180	153.2	55	113	5	12X8	21	18.5	12.25	1

NOTES: 1. 2-WAY HEATING VALVE

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	DRIVE	SERVICE	CFM	TSP (IN. W.C.)	SONES	DAMPER	ELECTRICAL DATA			PHYSICAL DATA			REMARKS
										WATTS	V/PH	FLA	L (IN.)	W (IN.)	H (IN.)	
EF1	GREENHECK	CSP-A710	INLINE CABINET	DIRECT	SERVER RM.	550	0.1	0.7	BACKDRAFT	168	115/60	4.9	16.375	18	14.5	1, 2

NOTES: 1. PLUG TYPE DISCONNECT
2. SPEED CONTROL
3. LINE VOLTAGE COOLING THERMOSTAT



3 VAV BOX CONNECTION DETAIL

SCALE: No Scale

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ISSUE:

#	DATE:	DESCRIPTION:
1	06/14/23	Addendum 1

100% CD SET

PROJECT:

Iowa State Capitol Complex

ORAN PAPE CONFERENCE ROOM

215 E. 7TH Street, Des Moines, IA

DATE:	05/05/2023
DESIGNED:	DAH
DRAWN:	MB
REVIEWED:	TAK

SHEET TITLE:

FIFTH FLOOR VENTILATION PLAN

SHEET NUMBER:

M1.1

PROJECT NO.: 0230377.00

6/13/2023 4:26:46 PM

EQUIPMENT DATA SCHEDULE

MARK	EQUIPMENT	DESCRIPTION: FURNISHED BY	DESCRIPTION: INSTALLED BY	LOCATION	LOAD DATA: LOAD	LOAD DATA: VOLTAGE	LOAD DATA: PHASE	DISCONNECT AT EQUIP.: DISC. TYPE	DISCONNECT AT EQUIP.: DISC. SIZE	DISCONNECT AT EQUIP.: FURNISHED BY	DISCONNECT AT EQUIP.: INSTALLED BY	WIRE & CONDUIT	REMARKS
1 EF 1	EXHAUST FAN	MC	MC	HALLWAY	4.9 FLA	120	1	DR	-	EC	EC	2#12, 1#12G, 3/4"C	
VAV 509A	VARIABLE AIR VOLUME BOX	MC	MC	OPS ROOM 572	39 VA	120	1	SW	-	EC	EC	2#12, 1#12G, 3/4"	

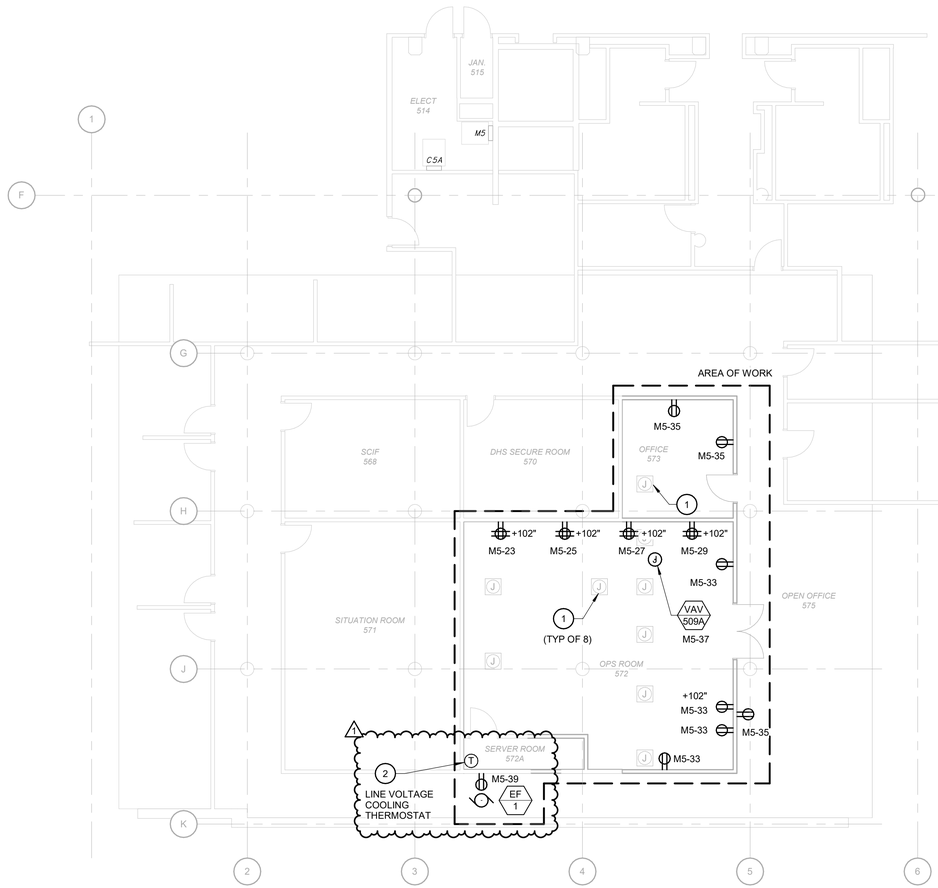
EQUIPMENT DATA NOTES:

GENERAL NOTES:

A.

REMARKS:

1. INSTALL DISCONNECT SWITCH ON THE SIDE OF THE EQUIPMENT HOUSING.
2. PROVIDE DISCONNECT LOCKABLE IN ACCORDANCE WITH NEC 110.25.
3. FUSE PER MANUFACTURER'S RECOMMENDATIONS.
4. INTERIOR UNIT ELECTRICALLY FED FROM EXTERIOR UNIT BY MANUFACTURER PROVIDED CABLE. COORDINATE RACEWAY REQUIREMENTS WITH EQUIPMENT MANUFACTURER.



1 **FIRST FLOOR POWER PLAN**

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

0 4 8 16

PLAN NORTH

GENERAL NOTES

A. NOT USED

KEYNOTES (#)

1 EXISTING COMBINATION POWER AND DATA FLOOR BOX.

2 ELECTRICAL CONTRACTOR TO INSTALL LINE VOLTAGE COOLING THERMOSTAT TO EF-1. THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR.

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1	06/13/2023	ADD 01

100% CD Set

PROJECT:

Iowa State Capitol Complex

ORAN PAPE CONFRENCE ROOM

215 E. 7TH ST.

DATE:	05/05/2023
DESIGNED:	GVP
DRAWN:	TMT
REVIEWED:	SFW

SHEET TITLE:

FIFTH FLOOR POWER PLAN

SHEET NUMBER:

E2.5

PROJECT NO.: 0230377.00

6/14/2023 11:25:20 AM

EXISTING PANELBOARD M5

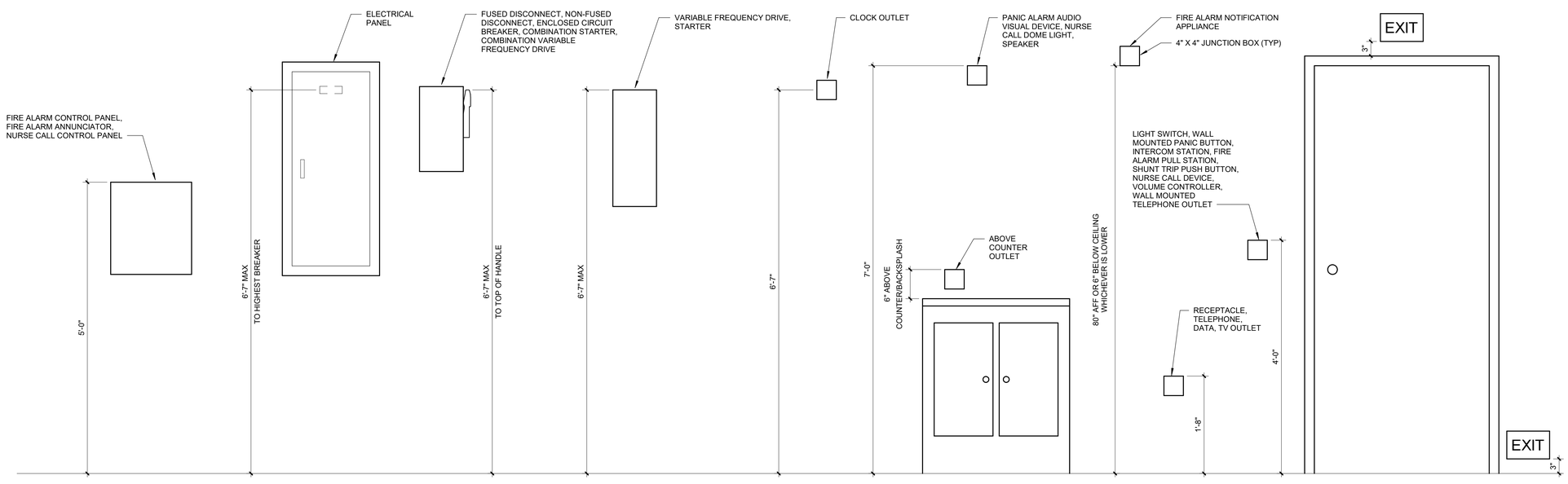
VOLTAGE:	208/120V			CONNECTED LOAD PER PHASE						ISOLATED GROUND BUS (Y/N):			N
PHASE / WIRE:	3Ø / 4W									BUSSING:			SEE SPEC
RATED AMPERAGE:	150 A			A		B		C		MOUNTING:			RECESSED
MAIN:	MCB									MCB GROUND FAULT PROTECTION (Y/N):			N
SCC RATING (SYM):	EXISTING			10870 VA		12556 VA		9520 VA		MCB SHUNT TRIP (Y/N):			N
FED FROM:	PANEL MDP			91 A		105 A		79 A		MCB 100% RATED (Y/N):			N

CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION	CKT
1	*RM 522, 505*		20	1	1080	1080					1	20		*RM 530, 532*	2
3	*RM 523, 524, 530*		20	1			1080	1080			1	20		*RM 554*	4
5	*RM 508, 530*		20	1					1080	1080	1	20		*RM 550, 554, 555, 579*	6
7	*RM 576*		20	1	1080	1080					1	20		*RM 570, 575*	8
9	*RM 576*		20	1			1080	1080			1	20		*RM 561, 566, 572, 573, 578*	10
11	*RM 576*		20	1					1080	1080	1	20		*RM 514, 540, 547, 561*	12
13	*RM 547*		20	1	1080	1080					1	20		*RM 503, 510, 511, 512*	14
15	*RM 547*		20	1			1080	500			1	20		*DRINKING FOUNTAIN RM 510*	16
17	*RM 514*		30	1					1080	0	1	20		*SPARE*	18
19	*ELEV SMOKE DOOR*		20	1	480	2300					1	30		*HAND DRYER RM 511*	20
21	*HAND DRYER RM 512*		30	1			2300	0			1	20		*SPARE*	22
23	**RM 572 QUAD RCPT 1**		20	1					800	0	1	20		*SPARE*	24
25	**RM 572 QUAD RCPT 2**		20	1	800	0					1	20		*SPARE*	26
27	**RM 572 QUAD RCPT 3**		20	1			800	0			1	20		*SPARE*	28
29	**RM 572 QUAD RCPT 4**		20	1					800	480	1	20		*FIRE SMOKE DAMPER*	30
31	*FIRE SMOKE DAMPER*		20	1	760	0					1	20		*SPARE*	32
33	**RM 572 RCPTS**		20	1			720	1748			1	20		*VAV POWER*	34
35	**RM 573 RCPTS/OPEN OFFICE 575**		20	1					540	1000	1	20		*EX. FANS*	36
37	**VAV 508A OPS ROOM 572**		20	1	50	0					1	20		*SPARE*	38
39	**EF-1**		20	1			588	500			1	20		*SECURITY CAMERAS*	40
41	SPARE		20	1					0	500	1	20		*CARD READER*	42

NOTES:

1. ALL BREAKERS ARE STANDARD UNLESS OTHERWISE NOTED
2. (*) NUMBER INDICATES BREAKER TYPE: 1 = AFCI, 2 = CLASS A 5mA GFCI, 3 = 30mA GFPE, 4 = SHUNT TRIP ACTIVATED, 5 = PANELBOARD FEEDER SERVING UNIT SHALL BE LOCKABLE USING A PADLOCK, IN ACCORDANCE WITH OSHA LOCK-OUT-TAG RULES, 6 = NEW BREAKER

PANEL	LOAD SUMMARY								
PHASE	A		B		C		TOTAL CONN.		% DIVERSITY	DEMAND LOAD (W)
LIGHTING=1	0		0		0		0		1.25	0
RECEPTACLES=2	7280		6920		7540		21740		**	15870
MOTOR, LARGEST=3	760		0		0		760		1.25	950
MOTOR=4	0		0		1480		1480		1.00	1480
KITCHEN EQUIPMENT=5****	0		0		0		0		1.00	0
ELECTRIC HEAT=6	0		0		0		0		1.25	0
OTHER CONTINUOUS=7	50		1748		0		1798		1.25	2248
OTHER NON-CONTINUOUS=8	2780		3300		500		6580		1.00	6580
	0		0		0		0		1.00	0
	0		0		0		0		1.00	0
	0		0		0		0		1.00	0
	0		0		0		0		1.00	0
TOTAL CONNECTED LOAD (W)							32358			
*** SPARES							6472			
TOTAL DEMAND LOAD (W)										27128



1 TYPICAL MOUNTING HEIGHT DETAIL

SCALE: 1" = 1'-0"

6/14/2023 11:23:21 AM

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1	06/13/2023	ADD 01

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PROJECT:

Iowa State Capitol Complex

ORAN PAPE CONFRENCE ROOM

215 E. 7TH ST.

DATE:	05/05/2023
DESIGNED:	GVP
DRAWN:	TMT
REVIEWED:	SFW

SHEET TITLE:

ELECTRICAL SCHEDULES AND DETAILS

SHEET NUMBER:

E5.1

PROJECT NO.: 0230377.00