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AIR HANDLING UNITS

UNIT NO.	SERVICE	TYPE	UNIT: CFM OF STD. AIR	UNIT: MIN. CFM OF O.A.	UNIT: MAX. CFM OF O.A.	UNIT: MAX. O.V.	UNIT: EXT. S.P. IN IN. WATER	UNIT: NO. OF FANS	UNIT: FAN DIA.	UNIT: FAN WHEEL TYPE	UNIT: DRIVE TYPE	UNIT: MOTOR HP	UNIT: FILTER TYPE	UNIT: FACE & BYPASS TYPE	UNIT: VOLUME CONTROL	UNIT: SUPPORT	UNIT: VIBRATION ISOLATORS TYPE	UNIT: VIBRATION ISOLATORS MIN. STATIC DEFL.	HEATING COIL: MAX. FACE VEL.	HEATING COIL: ENT. AIR TEMP.	HEATING COIL: LV. AIR TEMP.	HEATING COIL: ENT. H2O TEMP.	HEATING COIL: LV. H2O TEMP.	HEATING COIL: MAX. H2O P.D. IN FT.	HEATING COIL: GPM	HEATING COIL: BRANCH PIPE SIZE	COOLING COIL: MAX. FACE VEL.	COOLING COIL: ENT. AIR D.B.	COOLING COIL: ENT. AIR W.B.	COOLING COIL: LV. AIR D.B.	COOLING COIL: LV. AIR W.B.	COOLING COIL: ENT. H20 TEMP.	COOLING COIL: LV. H20 TEMP.	COOLING COIL: MAX. H2O P.D. IN FT.	COOLING COIL: GPM	COOLING COIL: BRANCH PIPE SIZE	DESIGN DIMENSIONS: LENGTH	DESIGN DIMENSIONS: WIDTH	DESIGN DIMENSIONS: HEIGHT	DESIGN DIMENSIONS: WEIGHT LBS.	MANUF. MODEL
AHU-10-1	OCAC LEVEL 1	HORIZ.	25,000	2,000	4,000	1,900	3	2	27"	PLENUM	DIRECT	15	2" MERV 13	INTERNAL	VFD	CONC. PAD	B	1"	725	55 °F	75 °F	160 °F	120 °F	10	27.3	2"	525	76.9 °F	64.5 °F	53 °F	52.4 °F	44 °F	54 °F	25	180	4"	19' - 4"	10' - 0"	6' - 8"	9,400	DAIKIN CAH-050
AHU-10-2	OCAC LEVEL 2	HORIZ.	25,000	3,500	6,000	1,700	3	2	27"	PLENUM	DIRECT	15	2" MERV 13	INTERNAL	VFD	CONC. PAD	B	1"	725	50 °F	75 °F	160 °F	120 °F	10	33.9	2"	525	77.9 °F	66.4 °F	53 °F	52.4 °F	44 °F	54 °F	25	212	4"	19' - 4"	10' - 0"	6' - 8"	9,400	DAIKIN CAH-050
AHU-10-3	OCAC LEVEL 3	HORIZ.	25,000	2,000	4,000	1,900	3	2	27"	PLENUM	DIRECT	15	2" MERV 13	INTERNAL	VFD	CONC. PAD	B	1"	725	55 °F	75 °F	160 °F	120 °F	10	27.3	2"	525	76.9 °F	64.5 °F	53 °F	52.4 °F	44 °F	54 °F	25	180	4"	19' - 4"	10' - 0"	6' - 8"	9,400	DAIKIN CAH-050
AHU-N2	HHS NORTH LEVEL 1	HORIZ.	7,000	575	1,000	1,500	3	1	22"	PLENUM	DIRECT	10	2" MERV 13	INTERNAL	VFD	CONC. PAD	B	1"	725	58 °F	75 °F	160 °F	120 °F	10	6.5	1"	500	76.7 °F	64.6 °F	53 °F	52.4 °F	44 °F	54 °F	25	51	2 1/2"	15' - 2"	6' - 2"	3' - 6"	2,700	DAIKIN CAH-014

RELIEF FANS

UNIT NO.	SERVICE	CFM OF STD. AIR	MAX. O.V.	EXT. S.P. IN IN. WATER	MOTOR HP	DRIVE	VOLUME CONTROL	FAN DIA	SUPPORT	VIBRATION ISOLATORS TYPE	VIBRATION ISOLATORS MIN. STATIC DEFLECTION	MAX. OUTLET SOUND PRESS. @ 5' dBA	MAX. OUTLET SOUND PRESS. @ 5' SONES	OUTLET OCTAVE BAND (LwA) 1	2	3	4	5	6	7	8	WEIGHT LBS.	MANUF. MODEL
RF-10-1	AHU-10-1 RELIEF	23,000	1,591	0.75	7.5	DIRECT	VFD	3' - 0 1/2"	SUSPENDED	D	0' - 1"	72	20	83	85	85	83	79	74	67	59	1,700	COOK QMXD-365
RF-10-2	AHU-10-2 RELIEF	23,000	1,591	0.75	7.5	DIRECT	VFD	3' - 0 1/2"	SUSPENDED	D	0' - 1"	72	20	83	85	85	83	79	74	67	59	1,700	COOK QMXD-365
RF-10-3	AHU-10-3 RELIEF	23,000	1,591	0.75	7.5	DIRECT	VFD	3' - 0 1/2"	SUSPENDED	D	0' - 1"	72	20	83	85	85	83	79	74	67	59	1,700	COOK QMXD-365

WATER COOLED CHILLERS

UNIT NO.	CHILLED WATER GPM	CHILLED WATER WATER IN	CHILLED WATER WATER OUT	MAX. CHILLER P.D. IN FT. OF WATER	CONDENSER WATER GPM	CONDENSER WATER WATER IN	CONDENSER WATER WATER OUT	MAX. COND. P.D. IN FT. OF WATER	IPLV KW/TON	FULL LOAD EFF. KW/TON	CAPACITY CONTROL	COMP. TYPE	NOM. TONS	SUPPORT	VIBRATION ISOLATORS TYPE	VIBRATION ISOLATORS MIN. STATIC DEFLECT.	MANUF. MODEL
WCC-1	1,200	54 °F	44 °F	30	1,500	85 °F	95 °F	25	0.322	0.549	VFD	MAG. BEARING CENT.	500	CONC. PAD	B	1"	DAIKIN WME-0501S
WCC-2	1,200	54 °F	44 °F	30	1,500	85 °F	95 °F	25	0.322	0.549	VFD	MAG. BEARING CENT.	500	CONC. PAD	B	1"	DAIKIN WME-0501S

COOLING TOWERS

UNIT NO.	SERVICE	GPM	WATER IN TEMP.	WATER OUT TEMP.	WET BULB TEMP.	MOTOR HP	FAN TYPE	DRIVE	SUPPORT	VIBRATION ISOLATORS TYPE	VIBRATION ISOLATORS MIN. STATIC DEFLECT.	MANUF. MODEL
CT-1	JUSTICE CENTER	1,500	95 °F	85 °F	78 °F	40	PROP.	DIRECT	CONC. PAD	C	0' - 1"	MARLEY NC-8405
CT-2	JUSTICE CENTER	1,500	95 °F	85 °F	78 °F	40	PROP.	DIRECT	CONC. PAD	C	0' - 1"	MARLEY NC-8405

CABINET HEATERS

UNIT NO.	SERVICE	TYPE	CAP. MBH	CFM OF STD. AIR	MOTOR HP	DRIVE	SPEED	RECESS	ENT. H2O TEMP.	LV. H2O TEMP.	GPM	BRANCH PIPE SIZE	MANUF. MODEL
CH-1	WOMENS 10.1.027	CR	10.7	220	0.017	DIRECT	3	0' - 10"	160 °F	140 °F	1.6	3/4"	RITTLING 02
CH-2	MENS 10.1.026	CR	10.7	220	0.017	DIRECT	3	0' - 10"	160 °F	140 °F	1.6	3/4"	RITTLING 02
CH-3	WOMENS 10.3.006	CR	10.7	220	0.017	DIRECT	3	0' - 10"	160 °F	140 °F	1.6	3/4"	RITTLING 02
CH-4	MENS 10.3.005	CR	10.7	220	0.017	DIRECT	3	0' - 10"	160 °F	140 °F	1.6	3/4"	RITTLING 02
CH-5	STAIR 10.1.S2	C	31.2	420	0.1	DIRECT	3	0' - 0"	160 °F	140 °F	4.8	1"	RITTLING 04
CH-6	PEDESTRIAN WALKWAY 10.1.024	CR	31.2	420	0.1	DIRECT	3	0' - 10"	160 °F	140 °F	4.8	1"	RITTLING 04

UNIT HEATERS

UNIT NO.	SERVICE	TYPE	CAP. MBH	CFM OF STD. AIR	MOTOR HP	MOTOR RPM	SPEED	DIFFUSER	ENT. H2O TEMP.	LV. H2O TEMP.	GPM	BRANCH PIPE SIZE	ELEV. ABOVE FIN. FL.	MANUF. MODEL
UH-1	MECHANICA 10.1.145	HORIZ.	24.1	730	0.067	1550	1	HORIZ.	160 °F	140 °F	3.4	3/4"	10' - 0"	RITTLING RH-47
UH-2	MECHANICA 10.2.084	HORIZ.	24.1	730	0.067	1550	1	HORIZ.	160 °F	140 °F	3.4	3/4"	10' - 0"	RITTLING RH-47
UH-3	MECHANICAL 10.3.123	HORIZ.	24.1	730	0.067	1550	1	HORIZ.	160 °F	140 °F	3.4	3/4"	10' - 0"	RITTLING RH-47

PUMPS

UNIT NO.	PUMP: SERVICE	PUMP: SIZE	PUMP: GPM	PUMP: FEET OF WATER HEAD	PUMP: MOTOR HP	PUMP: MOTOR RPM	PUMP: SUPPORT	PUMP: VFD	SUCTION DIFFUSER: INLET SIZE	SUCTION DIFFUSER: OUTLET SIZE	SUCTION DIFFUSER: START-UP STRAINER	MANUF. MODEL
P-1	CHILLED WATER LEAD	5 x 6	1,200	120	50	1750	CONC. PAD	YES	8"	6"	YES	B&G SERIES 1531
P-2	CHILLED WATER LAG	5 x 6	1,200	120	50	1750	CONC. PAD	YES	8"	6"	YES	B&G SERIES 1531
P-3	CHILLED WATER STAND-BY	5 x 6	1,200	120	50	1750	CONC. PAD	YES	8"	6"	YES	B&G SERIES 1531
P-4	CONDENSER WATER LEAD	6 x 8	1,500	70	40	1770	CONC. PAD	YES	8"	8"	YES	B&G SERIES 1531
P-5	CONDENSER WATER LAG	6 x 8	1,500	70	40	1770	CONC. PAD	YES	8"	8"	YES	B&G SERIES 1531
P-6	CONDENSER WATER STAND-BY	6 x 8	1,500	70	40	1770	CONC. PAD	YES	8"	8"	YES	B&G SERIES 1531
P-7	HOT WATER LEAD	5 x 6	800	95	30	1750	CONC. PAD	YES	8"	6"	YES	B&G SERIES 1531
P-8	HOT WATER LAG	5 x 6	800	95	30	1750	CONC. PAD	YES	8"	6"	YES	B&G SERIES 1531
P-9	HOT WATER STAND-BY	5 x 6	800	95	30	1750	CONC. PAD	YES	8"	6"	YES	B&G SERIES 1531

ROOM AIR CONDITIONING UNITS

UNIT NO.	INDOOR UNITS: SERVICE	INDOOR UNITS: TYPE	INDOOR UNITS: CFM OF STD. AIR	INDOOR UNITS: COOLING CAP. (BTU)	INDOOR UNITS: HEATING CAP. (BTU)	OUTDOOR UNITS: UNIT NO.	OUTDOOR UNITS: SERVICE	OUTDOOR UNITS: NOM. CAP. TONS	OUTDOOR UNITS: SEER	MANUF. MODEL
RAC-1	IT 10.1.034	HORIZ	530	24,000		OU-1	RAC-1	2	13.5	MITSUBISHI PKA/PUY
RAC-2	IT 10.2.013	HORIZ	530	24,000		OU-2	RAC-2	2	13.5	MITSUBISHI PKA/PUY
RAC-3	IT 10.3.004	HORIZ	530	24,000		OU-3	RAC-3	2	13.5	MITSUBISHI PKA/PUY
RAC-4	CRISIS PHONE ROOM 10.3.020	CLG.	500	24,000	26,000	OU-4	RAC-4	2	13.5	MITSUBISHI PLA/PUZ

ROOF EXHAUSTERS

UNIT NO.	SERVICE	CFM OF STD. AIR	FAN DIA	MAX. SONES	EXT. S.P. IN IN. WATER	MOTOR HP	DRIVE	BACKDRAFT DAMPER	MANUF. MODEL
RE-1	AHU-N2 RELIEF	6,000	24 1/2"	14	0.5	2	DIRECT	BY B.A.S.	COOK ACED-245
RE-2	OCAC 1ST. FLOOR TLTS.	1,175	12"	9.8	0.5	0.25	DIRECT	MOTORIZED	COOK ACED-120
RE-3	OCAC 2ND. & 3RD. FLOOR TLTS.	2,175	16 1/2"	10.5	0.5	0.5	DIRECT	MOTORIZED	COOK ACED-165
RE-4	MENS 03.3.184/WOMENS 03.2.185	800	12"	6.5	0.5	0.25	DIRECT	MOTORIZED	COOK ACED-120
RE-5	ELEVATOR SHAFT	300	10"	3.3	0.25	0.125	DIRECT	MOTORIZED	COOK ACED-100
RE-6	ELEVATOR SHAFT	300	10"	3.3	0.25	0.125	DIRECT	MOTORIZED	COOK ACED-100

RADIANT FLOOR TUBING

UNIT NO.	SERVICE	TUBE SIZE	DISTANCE BETWEEN TUBES	CAP. BTU/FT²	HTG. CIRCUIT AREA	MEAN WATER TEMP.	BRANCH PIPE SIZE	MAX. P.D. IN FT. WATER	COVERING R VALUE	MANUF. MODEL
RT-1	NON-SECURE VESTIBULE 10.1.001	5/8"	6"	40	950 ft²	110 °F	3/4"	10 FT	0	WATTS RADIANT
RT-2	VESTIBULE 10.1.002	5/8"	6"	40	350 ft²	110 °F	3/4"	10 FT	0	WATTS RADIANT

FIN PIPE RADIATION

UNIT NO.	ELEMENT SIZE	ELEMENT TYPE	FINS SIZE	FINS TYPE	BTU PER LIN. FT.	HGT. TOP OF CAB. TO FIN. FL.	CABINET DEPTH	CABINET HGT.	ELEMENT ONLY	ENT. AIR TEMP.	ENT. WATER TEMP.	LV. WATER TEMP.	MANUF. MODEL
FP-1	3/4"	CU	3 1/4"	AL	700	1' - 6"	0' - 4"	1' - 2"	No	60 °F	160 °F	140 °F	RITTLING FS5
FP-2	3/4"	CU	3 1/4"	AL	700	0' - 0"	0' - 0"	0' - 0"	Yes	60 °F	160 °F	140 °F	RITTLING FS5

CEILING EXHAUST FANS

UNIT NO.	SERVICE	CFM OF STD. AIR	TYPE	MAX. SONES	EXT. S.P. IN IN. WATER	MOTOR WATTS	MOTOR RPM	SOLID STATE SPEED CONTROLLER	MANUF. MODEL
CE-1	TOILET ROOM 10.2.054	125	CLG.	2.5	0.5	63.5	867	YES	COOK GC-186
CE-2	TOILER ROOM 03.2.109	125	CLG.	2.5	0.5	63.5	867	YES	COOK GC-186
CE-3	TOILET ROOM 03.3.145	125	CLG.	2.5	0.5	63.5	867	YES	COOK GC-186
CE-4	ELECTRICAL 10.1.025	375	CLG.	2	0.25	109	1200	YES	COOK GC-622
CE-5	ELECTRICAL 10.2.012	375	CLG.	2	0.25	109	1200	YES	COOK GC-622
CE-6	ELECTRICAL 10.3.003	375	CLG.	2	0.25	109	1200	YES	COOK GC-622
CE-7	TOILET ROOM 10.3.048	125	CLG.	2.5	0.5	63.5	867	YES	COOK GC-186

SYMBOLS

HS	HOT WATER SUPPLY
HR	HOT WATER RETURN
CS	CHILLED WATER SUPPLY
CR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
G	GAS
D	DRAIN
A	THREE WAY VALVE
	BALL VALVE
	BUTTERFLY VALVE
CBV	CALIBRATED BALANCING VALVE
	FLOW DIRECTION
	GAS VALVE
	FLEXIBLE DUCT
AD	MANUAL VOLUME DAMPER
AD	AUTOMATIC DAMPER WITH ACCESSIBLEDUCT ACCESS DOOR
FD	FIRE DAMPER WITH ACCESSIBLE DUCT ACCESS DOOR
	ACOUSTICAL INSULATION LINING ON INSIDE OF DUCT. LISTED DIMENSION IS CLEAR INSIDE DIMENSION.
	TURNING VANES
	BRANCH TAKE-OFF
	LOW PRESSURE FLEX. DUCT FITTING WITH MANUAL VOLUME DAMPER
UC	1" DOOR UNDERCUT. DOOR UNDERCUT BY GEN. CONTR.
T	ROOM SENSOR OR THERMOSTAT
S	REMOTE MOUNTED SWITCH
	CONNECT TO EXISTING DUCTWORK OR PIPING. FIELD VERIFY EXACT REQUIREMENTS.
	STATIC PRESSURE SENSOR

GENERAL NOTES:

A. THE MECHANICAL CONTRACTOR IS REQUIRED TO VISIT THE PREMISES AND TAKE NOTE OF ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK AND HE SHALL BE RESPONSIBLE FOR KNOWLEDGE OF SAME IN THE PREPARATION OF HIS BID. LACK OF INFORMATION ON EXISTING CONDITIONS SHALL NOT BE ALLOWED AS A VALID CAUSE FOR ADDITIONAL COMPENSATION.

B. ROUTE ALL NEW PIPING AND DUCTWORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING PIPING, CONDUIT, STRUCTURE, LIGHTING, ETC. PROVIDE ALL OFFSETS, ELBOWS, ETC. AS REQUIRED TO CONNECT BETWEEN POINTS INDICATED.

C. MECHANICAL CONTRACTOR SHALL VERIFY EXISTING CURRENT CHARACTERISTICS AT JOB SITE PRIOR TO ORDERING EQUIPMENT.

D. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT OUTLET AND GRILLE LOCATIONS WITH THE FINAL LIGHTING LAYOUT.

E. ELECTRICAL, STRUCTURAL, PLUMBING, ETC. REQUIREMENTS FOR THE EQUIPMENT MANUFACTURER LISTED ON THE SCHEDULE IS REFLECTED ON THE DOCUMENTS OF OTHER TRADES. ANY MODIFICATIONS NECESSARY TO ACCOMMODATE A MANUFACTURER OTHER THAN THAT LISTED IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

F. THE MECHANICAL CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING WITH THE GENERAL CONTRACTOR AND OWNER. PROVIDE ALL TEMPORARY PIPING, DUCTWORK, VENTILATION, CONTROLS, ETC. AS REQUIRED TO ACCOMMODATE CONSTRUCTION PHASES.

SOUND ATTENUATORS

UNIT NO.	SERVICE	CFM OF STD. AIR	MAX. S.P. IN IN. WATER	LENGTH	WIDTH	HEIGHT	DIAMETER	MINIMUM INSERTION LOSS OCTAVE BAND 1	2	3	4	5	6	7	8	MANUF. MODEL
SA-1	AHU-10-1	25,000	0.25	7' - 0"	3' - 8"	3' - 8"	-	7	10	16	32	54	43	26	16	AEROSONICS LP
SA-2	AHU-10-2	25,000	0.25	7' - 0"	3' - 8"	3' - 8"	-	7	10	16	32	54	43	26	16	AEROSONICS LP
SA-3	AHU-10-3	25,000	0.25	7' - 0"	3' - 8"	3' - 8"	-	7	10	16	32	54	43	26	16	AEROSONICS LP
SA-8																
SA-10																

IN-LINE PUMPS

UNIT NO.	SERVICE	SIZE	GPM	FEET OF WATER HEAD	MOTOR HP	MOTOR RPM	SUPPORT	MANUF. MODEL
IP-1	EXISTING BOILER B-1	6x6	700	20	5	1750	PIPE	B&G SERIES 80
IP-2	EXISTING BOILER B-2	6x6	700	20	5	1750	PIPE	B&G SERIES 80
IP-3	EXISTING BOILER B-3	5x5	400	20	3	1150	PIPE	B&G SERIES 80
IP-4	RADIANT FLOOR	1.5x1.5	6	30	0.167	3300	PIPE	B&G PL-36

GRILLES AND DIFFUSERS

UNIT NO.	SERVICE	SIZE	NECK SIZE	VOLUME DAMPER LOCATION	TRANSFER DUCT SIZE	AIR PATTERN	MANUF. MODEL
EG-1	EXHAUST GRILLE	12x12	12x12	DUCT TAKEOFF	-	EGGCRATE	PRICE 80
RG-1	SIDEWALL RETURN GRILLE	24x12	24x12	DUCT TAKEOFF	-	45°	PRICE 530
SG-1	PLAQUE DIFFUSER	24x24	8"Ø	DUCT TAKEOFF	-	4-WAY	PRICE SPD
SG-2	PLAQUE DIFFUSER	24x24	10"Ø	DUCT TAKEOFF	-	4-WAY	PRICE SPD
SG-4	SIDEWALL SUPPLY GRILLE	16x8	16x8	DUCT TAKEOFF	-	22.5°	PRICE 520
SG-5	SIDEWALL SUPPLY GRILLE	24x10	24x10	DUCT TAKEOFF	-	22.5°	PRICE 520
SG-6	SIDEWALL SUPPLY GRILLE	32x12	32x12	DUCT TAKEOFF	-	22.5°	PRICE 520
TG-1	TRANSFER GRILLE	12x12	12x12	-	12/10	EGGCRATE	PRICE 80
TG-2	TRANSFER GRILLE	22x22	22x22	-	22/12	EGGCRATE	PRICE 80
TG-3	SIDEWALL TRANSFER GRILLE	16x8	16x8	-	-	45°	PRICE 530
TG-4	SIDEWALL TRANSFER GRILLE	40x16	40x16	-	-	45°	PRICE 530

DESTRATIFICATION FANS

UNIT NO.	SERVICE	CFM OF STD. AIR	MOTOR WATTS	SOLID STATE SPEED CONTROLLER	MANUF. MODEL
DS-1	VESTIBULE 10.1.002	470	135	YES	ZOO FANS IC-30MFSilent
DS-2	NON-SECURE VESTIBULE 10.1.001	470	135	YES	ZOO FANS IC-30MFSilent
DS-3	NON-SECURE VESTIBULE 10.1.001	470	135	YES	ZOO FANS IC-30MFSilent

VARIABLE FREQUENCY DRIVES

UNIT NO.	SERVICE	MOTOR HP	CONTROL TYPE	MANUF. MODEL
VFD-1	AHU-10-1	15	VAV	ABB ACH-550
VFD-2	AHU-10-1	15	VAV	ABB ACH-550
VFD-3	RF-10-1	7.5	BLDG. PRESS.	ABB ACH-550
VFD-4	AHU-10-2	15	VAV	ABB ACH-550
VFD-5	AHU-10-2	15	VAV	ABB ACH-550
VFD-6	RF-10-2	7.5	BLDG. PRESS.	ABB ACH-550
VFD-7	AHU-10-3	15	VAV	ABB ACH-550
VFD-8	AHU-10-3	15	VAV	ABB ACH-550
VFD-9	RF-10-3	7.5	BLDG. PRESS.	ABB ACH-550
VFD-10	CT-1	40	VAV	ABB ACH-550
VFD-11	CT-2	40	VAV	ABB ACH-550
VFD-12	P-1	50	CHILLED WATER PDC	ABB ACH-550
VFD-13	P-2	50	CHILLED WATER PDC	ABB ACH-550
VFD-14	P-3	50	CHILLED WATER PDC	ABB ACH-550
VFD-15	P-4	40	WATER TEMP.	ABB ACH-550
VFD-16	P-5	40	WATER TEMP.	ABB ACH-550
VFD-17	P-6	40	WATER TEMP.	ABB ACH-550
VFD-18	P-7	30	HOT WATER PDC	ABB ACH-550
VFD-19	P-8	30	HOT WATER PDC	ABB ACH-550
VFD-20	P-9	30	HOT WATER PDC	ABB ACH-550
VFD-21	IP-1	5	BALANCING	ABB ACH-550
VFD-22	IP-2	5	BALANCING	ABB ACH-550
VFD-23	IP-3	5	BALANCING	ABB ACH-550
VFD-24	BOILER ROOM SUP. FAN	2	VAV	ABB ACH-550
VFD-25	BOILER ROOM EXH. FAN	2	VAV	ABB ACH-550
VFD-26	AHU-N2	10	VAV	ABB ACH-550
VFD-27	RE-1	2	BLDG. PRESS.	ABB ACH-550

WISCONSIN — RANDY L. ALL E-30277 CEDARBURG, WI — PROFESSIONAL ENGINEER

SHEET INDEX	
	FEI JOB No. 16-083
H001	HVAC SCHEDULES
H002	HVAC SCHEDULES
H003	HVAC SCHEDULES
H200	LEVEL 780.00 HVAC COMPOSITE PLAN
H201	LEVEL 790.00 HVAC COMPOSITE PLAN
H202	LEVEL 805.00 HVAC COMPOSITE PLAN
H203	LEVEL 820.00 HVAC COMPOSITE PLAN
H204	LEVEL 835.00 HVAC COMPOSITE PLAN
H210	LEVEL 780.00 HVAC DEMOLITION PLAN - JUSTICE CENTER
H211	LEVEL 780.0 HVAC DEMOLITION PLAN - HHS SOUTH
H212	LEVEL 790.00 HVAC DEMOLITION PLAN - CAB
H213	LEVEL 790.00 HVAC DEMOLITION PLAN - HHS NORTH
H214	LEVEL 790.00 HVAC DEMOLITION PLAN - JUSTICE CENTER
H215	LEVEL 805.00 HVAC DEMOLITION PLAN - HHS NORTH
H216	LEVEL 805.00 HVAC DEMOLITION PLAN - JUSTICE CENTER
H217	LEVEL 820.00 HVAC DEMOLITION PLAN - HHS NORTH
H218	LEVEL 820.0 HVAC DEMOLITION PLAN - HHS SOUTH
H219	LEVEL 835.0 HVAC DEMOLITION PLAN - HHS NORTH
H220	LEVEL 780.00 HVAC DUCTWORK PLAN - JUSTICE CENTER
H221	LEVEL 780.00 HVAC DUCTWORK AND PIPING PLAN - HHS NORTH
H222	LEVEL 790.00 HVAC DUCTWORK PLAN - CAB
H223	LEVEL 790.00 HVAC DUCTWORK PLAN - HHS NORTH / OCAC SOUTH
H224	LEVEL 790.00 HVAC DUCTWORK PLAN - OCAC NORTH
H225	LEVEL 790.00 HVAC DUCTWORK PLAN - JUSTICE CENTER
H226	LEVEL 805.00 HVAC DUCTWORK PLAN - HHS NORTH / OCAC SOUTH
H227	LEVEL 805.00 HVAC DUCTWORK PLAN - OCAC NORTH

SHEET INDEX	
	FEI JOB No. 16-083
H228	LEVEL 805.00 HVAC DUCTWORK PLAN - JUSTICE CENTER
H229	LEVEL 820.00 HVAC DUCTWORK PLAN - HHS NORTH / OCAC SOUTH
H230	LEVEL 820.00 HVAC DUCTWORK PLAN - OCAC NORTH
H231	LEVEL 835.00 HVAC DUCTWORK PLAN - HHS NORTH
H232	LEVEL 835.00 HVAC DUCTWORK PLAN - OCAC NORTH
H240	LEVEL 780.00 HVAC PIPING PLAN - JUSTICE CENTER
H241	LEVEL 780.00 HVAC PIPING PLAN - HHS SOUTH
H242	LEVEL 790.00 HVAC PIPING PLAN - CAB
H243	LEVEL 790.00 HVAC PIPING PLAN - HHS NORTH / OCAC SOUTH
H244	LEVEL 790.00 HVAC PIPING PLAN - OCAC NORTH
H245	LEVEL 790.00 HVAC PIPING PLAN - JUSTICE CENTER
H246	LEVEL 805.00 HVAC PIPING PLAN - HHS NORTH / OCAC SOUTH
H247	LEVEL 805.00 HVAC PIPING PLAN - OCAC NORTH
H248	LEVEL 805.00 HVAC PIPING PLAN - JUSTICE CENTER
H249	LEVEL 820.00 HVAC PIPING PLAN - HHS NORTH / OCAC SOUTH
H250	LEVEL 820.00 HVAC PIPING PLAN - OCAC NORTH
H260	LEVEL 790.00 HVAC PLENUM PLAN - OCAC/HHS NORTH
H261	LEVEL 805.00 HVAC PLENUM PLAN - OCAC/HHS NORTH
H262	LEVEL 820.00 HVAC PLENUM PLAN - OCAC/HHS NORTH
H400	JUSTICE CENTER BOILER ROOM DEMOLITION
H401	JUSTICE CENTER BOILER ROOM PLAN
H402	HHS NORTH/OCAC MECHANICAL ROOM DUCTWORK PLANS
H403	HHS NORTH/OCAC MECHANICAL ROOM PIPING PLANS
H800	HVAC DETAILS
H801	HVAC DETAILS

McMAHON ENGINEERS ARCHITECTS
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REVISION | DATE | NO

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
HVAC SCHEDULES

DESIGNED: RA | DRAWN: JJ
PROJECT NO.: O0002-61600160
DATE: MARCH 3, 2017
SHEET NO.: H001

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VARIABLE AIR VOLUME BOXES

		BOX					HEATING COIL							
UNIT NO.	SERVICE	CFM OF STD. AIR	COOLING MIN. CFM OF STD. AIR	BOX INLET SIZE	INLET DUCT SIZE	MAX. AIR P.D. IN IN. OF WATER	HEATING CFM OF STD. AIR	ENT. AIR TEMP.	LV. AIR TEMP.	ENT. H2O TEMP.	LV. H2O TEMP.	GPM	BRANCH PIPE SIZE	MANUF. MODEL
V-1	OFFICE 03.1.146	225	70	5"Ø	6"Ø	0.5	225	55 °F	85 °F	160 °F	140 °F	0.7	1/2"	PRICE SDV
V-2	WORK ROOM 10.1.141	475	140	8"Ø	10"Ø	0.5	475	55 °F	85 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-3	OFFICE 03.1.152/150/148	325	100	6"Ø	8"Ø	0.5	325	55 °F	85 °F	160 °F	140 °F	1.1	1/2"	PRICE SDV
V-4	OFFICE 03.1.156/158	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-5	OPEN OFFICE 10.1.139	1,700	510	14"Ø	16"Ø	0.5	1,700	55 °F	85 °F	160 °F	140 °F	5.5	1"	PRICE SDV
V-6	CONFERENCE ROOM 10.1.160	350	110	6"Ø	8"Ø	0.5	350	55 °F	85 °F	160 °F	140 °F	1.1	1/2"	PRICE SDV
V-7	WAITING ROOM 10.1.078	1,000	300	10"Ø	12"Ø	0.5	1,000	55 °F	85 °F	160 °F	140 °F	3.2	3/4"	PRICE SDV
V-8	INTERVIEW ROOMS 10.1.080/079/164	375	110	6"Ø	8"Ø	0.5	375	55 °F	85 °F	160 °F	140 °F	1.2	1/2"	PRICE SDV
V-9	CORRIDOR 10.1.028	2,300	690	14"Ø	16"Ø	0.5	2,300	55 °F	95 °F	160 °F	140 °F	9.9	1 1/4"	PRICE SDV
V-10	OFFICE 10.1.107/APP. STATIONS 10.1.081	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-11	OFFICE 10.1.103/101. I.R. 10.1.082/083	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-12	ONLINE APPLICATIONS ROOM 10.1.084	225	70	5"Ø	6"Ø	0.5	225	55 °F	85 °F	160 °F	140 °F	0.7	1/2"	PRICE SDV
V-13	OFFICE 10.1.131/133/135/137/143/144	525	160	8"Ø	10"Ø	0.5	525	55 °F	85 °F	160 °F	140 °F	1.7	3/4"	PRICE SDV
V-14	CORRIDOR 10.1.130	350	110	6"Ø	8"Ø	0.5	350	55 °F	90 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-15	OFFICE 10.1.087/089/132/134/136/138	625	190	8"Ø	10"Ø	0.5	625	55 °F	85 °F	160 °F	140 °F	2	3/4"	PRICE SDV
V-16	OFFICE 10.1.091/093/095/097/099	500	150	8"Ø	10"Ø	0.5	500	55 °F	85 °F	160 °F	140 °F	1.6	3/4"	PRICE SDV
V-17	OFFICE 10.1.100/102/115/116	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-18	OFFICE 10.1.104/106/113/114	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-19	OFFICE 10.1.108/112/109, I.R. 10.1.032	450	140	6"Ø	8"Ø	0.5	450	55 °F	85 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-20	CORRIDOR 10.1.028	2,300	690	14"Ø	16"Ø	0.5	2,300	55 °F	95 °F	160 °F	140 °F	9.9	1 1/4"	PRICE SDV
V-21	WAITING ROOM 10.1.031	450	140	6"Ø	8"Ø	0.5	450	55 °F	85 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-22	OPEN OFFICE 10.1.035	600	180	8"Ø	10"Ø	0.5	600	55 °F	85 °F	160 °F	140 °F	1.9	3/4"	PRICE SDV
V-23	WORK ROOM 10.1.036	200	60	5"Ø	6"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-24	WORK AREA 10.1.098/CORR. 10.1.086	800	240	10"Ø	12"Ø	0.5	800	55 °F	85 °F	160 °F	140 °F	2.6	3/4"	PRICE SDV
V-25	OFFICE 10.1.092/094/096/117/119	500	150	8"Ø	10"Ø	0.5	500	55 °F	85 °F	160 °F	140 °F	1.6	3/4"	PRICE SDV
V-26	OFFICE 10.1.088/090/121/123/125	500	150	8"Ø	10"Ø	0.5	500	55 °F	85 °F	160 °F	140 °F	1.6	3/4"	PRICE SDV
V-27	KITCHENETTE 10.1.127	175	50	5"Ø	6"Ø	0.5	175	55 °F	90 °F	160 °F	140 °F	0.7	1/2"	PRICE SDV
V-28	OFFICE 10.1.045/128	225	70	5"Ø	6"Ø	0.5	225	55 °F	85 °F	160 °F	140 °F	0.7	1/2"	PRICE SDV
V-29	OFFICE 10.1.118/120/122/124/126	600	180	8"Ø	10"Ø	0.5	600	55 °F	85 °F	160 °F	140 °F	1.9	3/4"	PRICE SDV
V-30	OFFICE 10.1.039/040/041/042/043/044	675	200	8"Ø	10"Ø	0.5	675	55 °F	85 °F	160 °F	140 °F	2.2	3/4"	PRICE SDV
V-31	CORRIDOR 10.1.038	675	200	8"Ø	10"Ø	0.5	675	55 °F	85 °F	160 °F	140 °F	2.2	3/4"	PRICE SDV
V-32	OFFICE 10.1.045/046	200	60	6"Ø	8"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-33	OFFICE 10.1.052/INTER. ROOM 10.1.053	250	80	5"Ø	6"Ø	0.5	250	55 °F	85 °F	160 °F	140 °F	0.8	1/2"	PRICE SDV
V-34	CONFERENCE ROOM 10.1.033	425	130	6"Ø	8"Ø	0.5	425	55 °F	85 °F	160 °F	140 °F	1.4	1/2"	PRICE SDV
V-35	CORRIDOR 10.1.006	1,875	560	14"Ø	16"Ø	0.5	1,875	55 °F	85 °F	160 °F	140 °F	6.1	1"	PRICE SDV
V-36	CONFERENCE ROOM 10.1.056	200	60	5"Ø	6"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-37	OFFICE 10.1.055/058	350	110	5"Ø	6"Ø	0.5	350	55 °F	85 °F	160 °F	140 °F	1.1	1/2"	PRICE SDV
V-38	OFFICE 10.1.050/051/059/062	500	150	8"Ø	10"Ø	0.5	500	55 °F	85 °F	160 °F	140 °F	1.6	3/4"	PRICE SDV
V-39	CONFERENCE ROOM 10.1.074	425	130	6"Ø	8"Ø	0.5	425	55 °F	85 °F	160 °F	140 °F	1.4	1/2"	PRICE SDV
V-40	OFFICE 10.1.047/048/049/076/073	600	180	8"Ø	10"Ø	0.5	600	55 °F	85 °F	160 °F	140 °F	1.9	3/4"	PRICE SDV
V-41	OFFICE 10.1.077	200	60	5"Ø	6"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-42	OFFICE 10.1.069/070/071/072	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-43	OFFICE 10.1.063/064/065/066/067/068/069	600	180	8"Ø	10"Ø	0.5	600	55 °F	85 °F	160 °F	140 °F	1.9	3/4"	PRICE SDV
V-44	PEDESTRIAN WALKWAY 10.1.024	800	240	10"Ø	12"Ø	0.5	800	55 °F	85 °F	160 °F	140 °F	2.6	3/4"	PRICE SDV
V-45	OFFICE 10.1.018/019/020/021	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-46	OFFICE 10.1.017	175	50	5"Ø	6"Ø	0.5	175	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-47	OFFICE 10.1.016	200	60	5"Ø	6"Ø	0.5	200	55 °F	90 °F	160 °F	140 °F	0.8	1/2"	PRICE SDV
V-48	OFFICE 10.1.014	125	40	5"Ø	6"Ø	0.5	125	55 °F	95 °F	160 °F	140 °F	0.5	1/2"	PRICE SDV
V-49	SCREENING 10.1.003	750	230	8"Ø	10"Ø	0.5	750	55 °F	85 °F	160 °F	140 °F	2.4	3/4"	PRICE SDV
V-50	CJU 10.1.005	375	110	6"Ø	8"Ø	0.5	375	55 °F	85 °F	160 °F	140 °F	1.2	1/2"	PRICE SDV
V-51	WAITING ROOM 10.1.007	250	80	6"Ø	8"Ø	0.5	250	55 °F	85 °F	160 °F	140 °F	0.8	1/2"	PRICE SDV
V-52	OPEN OFFICE 10.1.022	1,225	370	12"Ø	14"Ø	0.5	1,225	55 °F	85 °F	160 °F	140 °F	4	1"	PRICE SDV
V-53	NON-SECURE VESTIBULE 10.1.001	1,300	390	12"Ø	14"Ø	0.5	1,300	55 °F	110 °F	160 °F	140 °F	7.7	1 1/4"	PRICE SDV
V-54	CONFERENCE ROOM 10.1.008	450	140	6"Ø	8"Ø	0.5	450	55 °F	90 °F	160 °F	140 °F	1.7	3/4"	PRICE SDV
V-55	OFFICE 10.1.010/011/012/013	400	120	6"Ø	8"Ø	0.5	400	55 °F	90 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-56	OFFICE 10.2.063/065/067/069/085	525	160	8"Ø	10"Ø	0.5	525	55 °F	85 °F	160 °F	140 °F	1.7	3/4"	PRICE SDV
V-57	OFFICE 10.2.080/081/082/083	575	170	8"Ø	10"Ø	0.5	575	55 °F	85 °F	160 °F	140 °F	1.9	3/4"	PRICE SDV
V-58	OFFICE 10.2.072/074/076/078	450	140	6"Ø	8"Ø	0.5	450	55 °F	85 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-59	OFFICE 10.2.047/049/051/075/077/079	675	200	8"Ø	10"Ø	0.5	675	55 °F	85 °F	160 °F	140 °F	2.2	3/4"	PRICE SDV
V-60	OFFICE 10.2.052	225	70	5"Ø	6"Ø	0.5	225	55 °F	85 °F	160 °F	140 °F	0.7	1/2"	PRICE SDV
V-61	VISITATION ROOM 10.2.062	300	90	6"Ø	8"Ø	0.5	300	55 °F	85 °F	160 °F	140 °F	1	1/2"	PRICE SDV
V-62	VISITATION ROOM 10.2.064	425	130	6"Ø	8"Ø	0.5	425	55 °F	85 °F	160 °F	140 °F	1.4	1/2"	PRICE SDV
V-63	OFFICE 10.2.035	225	70	5"Ø	6"Ø	0.5	225	55 °F	85 °F	160 °F	140 °F	0.7	1/2"	PRICE SDV
V-64	OPEN OFFICE 10.2.034	1,000	300	10"Ø	12"Ø	0.5	1,000	55 °F	85 °F	160 °F	140 °F	3.2	3/4"	PRICE SDV
V-65	CORRIDOR 10.2.006/003/071	600	180	8"Ø	10"Ø	0.5	600	55 °F	95 °F	160 °F	140 °F	2.6	3/4"	PRICE SDV
V-66	CONFERENCE ROOM D 10.2.004d	725	220	8"Ø	10"Ø	0.5	725	55 °F	85 °F	160 °F	140 °F	2.3	3/4"	PRICE SDV
V-67	CONFERENCE ROOM C 10.2.004c	725	220	8"Ø	10"Ø	0.5	725	55 °F	85 °F	160 °F	140 °F	2.3	3/4"	PRICE SDV
V-68	CHAMBERS 10.2.011	150	50	5"Ø	6"Ø	0.5	150	55 °F	85 °F	160 °F	140 °F	0.5	1/2"	PRICE SDV
V-69	COURTROOM 10.2.010	1,100	330	10"Ø	12"Ø	0.5	1,100	55 °F	85 °F	160 °F	140 °F	3.6	1"	PRICE SDV
V-70	CONFERENCE ROOM A 10.2.004a	700	210	8"Ø	10"Ø	0.5	700	55 °F	85 °F	160 °F	140 °F	2.3	3/4"	PRICE SDV
V-71	CONFERENCE ROOM B 10.2.004b	700	210	8"Ø	10"Ø	0.5	700	55 °F	85 °F	160 °F	140 °F	2.3	3/4"	PRICE SDV
V-72	CONFERENCE 10.2.008/WAITING 10.2.009	200	60	5"Ø	6"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-73	CORRIDOR 10.2.001	875	260	10"Ø	12"Ø	0.5	875	55 °F	85 °F	160 °F	140 °F	2.8	3/4"	PRICE SDV
V-74	VISITATION ROOM 10.2.059/061	300	90	6"Ø	8"Ø	0.5	300	55 °F	85 °F	160 °F	140 °F	1	1/2"	PRICE SDV
V-75	OBSERVATION 10.2.060/VISITATION 10.2.058	575	170	6"Ø	8"Ø	0.5	575	55 °F	85 °F	160 °F	140 °F	1.9	3/4"	PRICE SDV
V-76	CONFERENCE ROOM 10.2.057	475	140	8"Ø	10"Ø	0.5	475	55 °F	85 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-77	WAITING ROOM 10.2.038	425	130	6"Ø	8"Ø	0.5	425	55 °F	85 °F	160 °F	140 °F	1.4	1/2"	PRICE SDV
V-78	RECEPTION 10.2.041/WORK ROOM 10.2.043	325	100	6"Ø	8"Ø	0.5	325	55 °F	85 °F	160 °F	140 °F	1.1	1/2"	PRICE SDV
V-79	CORRIDOR 10.2.031	2,400	720	14"Ø	16"Ø	0.5	2,400	55 °F	85 °F	160 °F	140 °F	7.8	1 1/4"	PRICE SDV
V-80	MEDIATION 10.2.040/42/WAITING 10.2.044	500	150	8"Ø	10"Ø	0.5	500	55 °F	85 °F	160 °F	140 °F	1.6	3/4"	PRICE SDV
V-81	COURTROOM 10.2.023	1,000	300	10"Ø	12"Ø	0.5	1,000	55 °F	85 °F	160 °F	140 °F	3.2	3/4"	PRICE SDV
V-82	WAITING ROOM 10.2.033	300	90	6"Ø	8"Ø	0.5	300	55 °F	85 °F	160 °F	140 °F	1	1/2"	PRICE SDV
V-83	CHAMBERS 10.2.024	200	60	5"Ø	6"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-84	CORRIDOR 10.2.031	2,350	710	14"Ø	16"Ø	0.5	2,350	55 °F	95 °F	160 °F	140 °F	10.2	1 1/4"	PRICE SDV
V-85	CORRIDOR 10.2.031	2,400	720	14"Ø	16"Ø	0.5	2,400	55 °F	95 °F	160 °F	140 °F	10.4	1 1/4"	PRICE SDV
V-86	WAITING ROOM 10.2.018	525	160	8"Ø	10"Ø	0.5	525	55 °F	85 °F	160 °F	140 °F	1.7	3/4"	PRICE SDV
V-87	OPEN OFFICE 10.2.022/027	800	240	10"Ø	12"Ø	0.5	800	55 °F	85 °F	160 °F	140 °F	2.6	3/4"	PRICE SDV
V-88	CHAMBERS 10.2.026	125	40	5"Ø	6"Ø	0.5	125	55 °F	85 °F	160 °F	140 °F	0.4	1/2"	PRICE SDV
V-89	CONFERENCE ROOM 10.2.019/020	200	60	5"Ø	6"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-90	COURTROOM 10.2.021	1,000	300	10"Ø	12"Ø	0.5	1,000	55 °F	85 °F	160 °F	140 °F	3.2	3/4"	PRICE SDV
V-91	OFFICE 10.2.048/050	250	80	5"Ø	6"Ø	0.5	250	55 °F	85 °F	160 °F	140 °F	0.8	1/2"	PRICE SDV
V-92	CORRIDOR 10.2.006/003/071	350	110	5"Ø	6"Ø	0.5	350	55 °F	95 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-93	OFFICE 10.3.124/125/126/127	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-94	OFFICE 10.3.128/129/130	300	90	5"Ø	6"Ø	0.5	300	55 °F	85 °F	160 °F	140 °F	1	1/2"	PRICE SDV
V-95	OFFICE 10.3.131/132/133/134	675	200	8"Ø	10"Ø	0.5	675	55 °F	85 °F	160 °F	140 °F	2.2	3/4"	PRICE SDV
V-96	OFFICE 10.3.107/109/116/118	550	170	8"Ø	10"Ø	0.5	550	55 °F	85 °F	160 °F	140 °F	1.8	3/4"	PRICE SDV
V-97	OPEN OFFICE 10.3.117-OFFICE 10.3.119/121	525	160	8"Ø	10"Ø	0.5	525	55 °F	85 °F	160 °F	140 °F	1.7	3/4"	PRICE SDV
V-98	OFFICE 10.3.103/105/112/114	450	140	6"Ø	8"Ø	0.5	450	55 °F	85 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-99	CONFERENCE ROOM 5 10.3.115	300	90	6"Ø	8"Ø	0.5	300	55 °F	85 °F	160 °F	140 °F	1	1/2"	PRICE SDV
V-100	OFFICE 10.3.080/082/084, SHOT RM 10.3.051/049	600	180	8"Ø	10"Ø	0.5	600	55 °F	85 °F	160 °F	140 °F	1.9	3/4"	PRICE SDV
V-101	CONFERENCE ROOM 3 10.3.087	275	80	5"Ø	6"Ø	0.5	275	55 °F	85 °F	160 °F	140 °F	0.9	1/2"	PRICE SDV

VARIABLE AIR VOLUME BOXES

		BOX					HEATING COIL							
UNIT NO.	SERVICE	CFM OF STD. AIR	COOLING MIN. CFM OF STD. AIR	BOX INLET SIZE	INLET DUCT SIZE	MAX. AIR P.D. IN IN. OF WATER	HEATING CFM OF STD. AIR	ENT. AIR TEMP.	LV. AIR TEMP.	ENT. H2O TEMP.	LV. H2O TEMP.	GPM	BRANCH PIPE SIZE	MANUF. MODEL
V-102	OPEN OFFICE 10.3.083/CORRIDOR 10.3.086	450	140	6"Ø	8"Ø	0.5	450	55 °F	85 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-103	OFFICE 10.3.081	200	60	5"Ø	6"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-104	OFFICE 10.3.056/055/057/076/078	575	170	8"Ø	10"Ø	0.5	575	55 °F	85 °F	160 °F	140 °F	1.9	3/4"	PRICE SDV
V-105	CONFERENCE ROOM 2 10.3.077	300	90	5"Ø	6"Ø	0.5	300	55 °F	85 °F	160 °F	140 °F	1	1/2"	PRICE SDV
V-106	OFFICE 10.3.059/061/072/074	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-107	OFFICE 10.3.073/075	325	100	5"Ø	6"Ø	0.5	325	55 °F	85 °F	160 °F	140 °F	1.1	1/2"	PRICE SDV
V-108	OFFICE 10.3.063/064/065/	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-109	OFFICE 10.3.067/068/069	300	90	5"Ø	6"Ø	0.5	300	55 °F	90 °F	160 °F	140 °F	1.1	1/2"	PRICE SDV
V-110	WORK ROOM 10.3.093	275	80	5"Ø	6"Ø	0.5	275	55 °F	85 °F	160 °F	140 °F	0.9	1/2"	PRICE SDV
V-111	OFFICE 10.3.099/101/106/108	500	150	8"Ø	10"Ø	0.5	500	55 °F	85 °F	160 °F	140 °F	1.6	3/4"	PRICE SDV
V-112	OFFICE 10.3.094/096/098	350	110	5"Ø	6"Ø	0.5	350	55 °F	85 °F	160 °F	140 °F	1.1	1/2"	PRICE SDV
V-113	CONFERENCE ROOM 1 10.3.091	350	110	5"Ø	6"Ø	0.5	350	55 °F	85 °F	160 °F	140 °F	1.1	1/2"	PRICE SDV
V-114	OFFICE 10.3.092/094	250	80	5"Ø	6"Ø	0.5	250	55 °F	85 °F	160 °F	140 °F	0.8	1/2"	PRICE SDV
V-115	OFFICE 10.3.095/097/102/104	625	190	8"Ø	10"Ø	0.5	625	55 °F	85 °F	160 °F	140 °F	2	3/4"	PRICE SDV
V-116	CORRIDOR 10.3.045	625	190	6"Ø	8"Ø	0.5	625	55 °F	85 °F	160 °F	140 °F	2	3/4"	PRICE SDV
V-117	MEDICAL ROOM 10.3.050	250	80	5"Ø	6"Ø	0.5	250	55 °F	85 °F	160 °F	140 °F	0.8	1/2"	PRICE SDV
V-118	CONFERENCE ROOM 4 10.3.044/OFFICE 10.3.046	300	90	5"Ø	6"Ø	0.5	300	55 °F	85 °F	160 °F	140 °F	1	1/2"	PRICE SDV
V-119	OFFICE 10.3.015/017/040/042	500	150	8"Ø	10"Ø	0.5	500	55 °F	85 °F	160 °F	140 °F	1.6	3/4"	PRICE SDV
V-120	OFFICE 10.3.039/041/043	375	110	6"Ø	8"Ø	0.5	375	55 °F	85 °F	160 °F	140 °F	1.2	1/2"	PRICE SDV
V-121	OFFICE 10.3.019/021/038	375	110	6"Ø	8"Ø	0.5	375	55 °F	85 °F	160 °F	140 °F	1.2	1/2"	PRICE SDV
V-122	OFFICE 10.3.035/037/054/056	500	150	8"Ø	10"Ø	0.5	500	55 °F	85 °F	160 °F	140 °F	1.6	3/4"	PRICE SDV
V-123	OFFICE 10.3.023/025/034/036	450	140	6"Ø	8"Ø	0.5	450	55 °F	85 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-124	TELEHEALTH 10.3.033	200	60	5"Ø	6"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-125	CORRIDOR 10.3.060/WORK ARE 10.3.062	750	230	8"Ø	10"Ø	0.5	750	55 °F	85 °F	160 °F	140 °F	2.4	3/4"	PRICE SDV
V-126	OFFICE 10.3.030/032	200	60	5"Ø	6"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-127	OFFICE 10.3.031/058	200	60	5"Ø	6"Ø	0.5	200	55 °F	85 °F	160 °F	140 °F	0.6	1/2"	PRICE SDV
V-128	CORRIDOR 10.3.001	900	270	10"Ø	12"Ø	0.5	900	55 °F	85 °F	160 °F	140 °F	2.9	3/4"	PRICE SDV
V-129	STAFF BREAK ROOM 10.3.002	1,925	580	14"Ø	16"Ø	0.5	1,925	55 °F	100 °F	160 °F	140 °F	9.4	1 1/4"	PRICE SDV
V-130	OPEN OFFICE 10.3.136	1,700	510	14"Ø	16"Ø	0.5	1,700	55 °F	85 °F	160 °F	140 °F	5.5	1"	PRICE SDV
V-131	CORRIDOR 10.3.009	2,350	710	14"Ø	16"Ø	0.5	2,350	55 °F	95 °F	160 °F	140 °F	10.2	1 1/4"	PRICE SDV
V-132	WAITING ROOM 10.3.010	875	260	10"Ø	12"Ø	0.5	875	55 °F	85 °F	160 °F	140 °F	2.8	3/4"	PRICE SDV
V-133	CORRIDOR 10.3.009	2,350	710	14"Ø	16"Ø	0.5	2,350	55 °F	95 °F	160 °F	140 °F	10.2	1 1/4"	PRICE SDV
V-134	OFFICE 10.3.013/014/016	375	110	6"Ø	8"Ø	0.5	375	55 °F	85 °F	160 °F	140 °F	1.2	1/2"	PRICE SDV
V-135	WORK AREA 10.3.018/CORRIDOR 10.3.027	375	110	6"Ø	8"Ø	0.5	375	55 °F	85 °F	160 °F	140 °F	1.2	1/2"	PRICE SDV
V-136	CRISIS PHONE ROOM 10.3.020	675	200	8"Ø	10"Ø	0.5	675	55 °F	85 °F	160 °F	140 °F	2.2	3/4"	PRICE SDV
V-137	CRISIS CONFERENCE ROOM 10.3.026	300	90	5"Ø	6"Ø	0.5	300	55 °F	85 °F	160 °F	140 °F	1	1/2"	PRICE SDV
V-138	OPEN OFFICE 01.1.023	400	120	6"Ø	8"Ø	0.5	400	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-139	OFFICE 01.1.024	130	40	5"Ø	6"Ø	0.5	130	55 °F	85 °F	160 °F	140 °F	0.4	1/2"	PRICE SDV
V-140	OFFICE 01.1.125	130	40	5"Ø	6"Ø	0.5	130	55 °F	85 °F	160 °F	140 °F	0.4	1/2"	PRICE SDV
V-141	OFFICE 01.1.033	125	40	5"Ø	6"Ø	0.5	125	55 °F	85 °F	160 °F	140 °F	0.4	1/2"	PRICE SDV
V-142	OFFICE 03.1.169	150	50	5"Ø	6"Ø	0.5	150	55 °F	85 °F	160 °F	140 °F	0.5	1/2"	PRICE SDV
V-143	OFFICE 03.1.157/159/161/163/165/167	600	180	8"Ø	10"Ø	0.5	600	55 °F	85 °F	160 °F	140 °F	1.9	3/4"	PRICE SDV
V-144	OFFICE 03.1.173/174/175/176/177/178	600	180	8"Ø	10"Ø	0.5	600	55 °F	85 °F	160 °F	140 °F	1.9	3/4"	PRICE SDV
V-145	CORRIDOR 03.1.189	750	230	8"Ø	10"Ø	0.5	750	55 °F	85 °F	160 °F	140 °F	2.4	3/4"	PRICE SDV
V-146	CONFERENCE ROOM 03.1.170	325	100	6"Ø	8"Ø	0.5	325	55 °F	85 °F	160 °F	140 °F	1.1	1/2"	PRICE SDV
V-147	ATLS/ADRC STORAGE 03.1.191	700	210	8"Ø	10"Ø	0.5	700	55 °F	85 °F	160 °F	140 °F	2.3	3/4"	PRICE SDV
V-148	WAITING ROOM 03.1.192/OFFICE 03.1.195	250	80	5"Ø	6"Ø	0.5	250	55 °F	85 °F	160 °F	140 °F	0.8	1/2"	PRICE SDV
V-149	OFFICE 03.1.196/197	300	90	6"Ø	8"Ø	0.5	300	55 °F	85 °F	160 °F	140 °F	1.3	1/2"	PRICE SDV
V-150	OPEN OFFICE 03.1.194/I.R. 03.1.200	450	140	6"Ø	8"Ø	0.5	450	55 °F	85 °F	160 °F	140 °F	1.5	1/2"	PRICE SDV
V-151	OFFICE 03.1.198/199	275	80	5"Ø	6"Ø	0.5	275	55 °F	95 °F	160 °F	140 °F	1.2	1/2"	PRICE SDV
V-152	W

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FAN POWERED VAV BOXES

		BOX						FAN				HEATING COIL							
UNIT NO.	SERVICE	TYPE	CFM OF STD. AIR	INLET DIA.	INLET DUCT DIA.	MIN. AIR FLOW	MAX. AIR P.D. IN IN. OF WATER	MOTOR HP	EXT. S.P. IN IN. WATER	FAN CFM OF STD AIR	FILTER TYPE	CFM OF STD. AIR	ENT. H2O TEMP.	LV. H2O TEMP.	ENT. AIR TEMP.	LV. AIR TEMP.	GPM	BRANCH PIPE SIZE	MANUF. MODEL
FPV-1	EXISTING CORRIDOR	PARALLEL	575	8"	10"	175	0.5	0.125	0.5	400	MERV 8	575	160 °F	140 °F	55 °F	85 °F	1.2	1/2"	PRICE FDV
FPV-2	CLER. 04.0.G21	PARALLEL	900	10"	12"	270	0.5	0.25	0.5	630	MERV 8	900	160 °F	140 °F	55 °F	85 °F	3	3/4"	PRICE FDV
FPV-3	EMERGENCT OPERATIONS CENTER 04.0.007a	PARALLEL	950	10"	12"	285	0.5	0.25	0.5	665	MERV 8	950	160 °F	140 °F	55 °F	85 °F	3.1	3/4"	PRICE FDV
FPV-4	OFFICE 04.0.003	PARALLEL	115	6"	8"	35	0.5	0.125	0.5	80	MERV 8	115	160 °F	140 °F	55 °F	85 °F	0.4	1/2"	PRICE FDV
FPV-5	OFFICE 04.0.004/006/008/010	PARALLEL	635	8"	10"	190	0.5	0.125	0.5	445	MERV 8	635	160 °F	140 °F	55 °F	85 °F	2.1	3/4"	PRICE FDV
FPV-6	OPEN OFFICE 04.0.005	PARALLEL	600	8"	10"	180	0.5	0.125	0.5	420	MERV 8	600	160 °F	140 °F	55 °F	85 °F	2	3/4"	PRICE FDV
FPV-7	CLASSROOM/TRAINING 04.0.007b	PARALLEL	825	10"	12"	250	0.5	0.25	0.5	575	MERV 8	825	160 °F	140 °F	55 °F	85 °F	2.7	3/4"	PRICE FDV
FPV-8	UNASSIGNED 04.0.019	PARALLEL	450	8"	10"	135	0.5	0.125	0.5	315	MERV 8	450	160 °F	140 °F	55 °F	85 °F	1.5	1/2"	PRICE FDV
FPV-9	CONF. RM 04.0.012/OFFICE 04.0.14/016	PARALLEL	460	8"	10"	140	0.5	0.125	0.5	320	MERV 8	460	160 °F	140 °F	55 °F	85 °F	1.4	1/2"	PRICE FDV
FPV-10	CONFERENCE ROOM 04.0.015	PARALLEL	425	8"	10"	130	0.5	0.125	0.5	295	MERV 8	425	160 °F	140 °F	55 °F	85 °F	0.8	1/2"	PRICE FDV
FPV-11	OFFICE 04.1.013/014/016	PARALLEL	365	6"	8"	110	0.5	0.125	0.5	255	MERV 8	365	160 °F	140 °F	55 °F	95 °F	1.7	3/4"	PRICE FDV
FPV-12	OFFICE 04.1.006/015	PARALLEL	250	6"	8"	75	0.5	0.125	0.5	175	MERV 8	250	160 °F	140 °F	55 °F	80 °F	0.7	1/2"	PRICE FDV
FPV-13	WAITING 04.1.001/RECEPTION 04.1.002	PARALLEL	325	6"	8"	100	0.5	0.125	0.5	225	MERV 8	325	160 °F	140 °F	55 °F	80 °F	0.9	1/2"	PRICE FDV
FPV-14	CONFERENCE 04.1.005	PARALLEL	150	6"	8"	45	0.5	0.125	0.5	105	MERV 8	150	160 °F	140 °F	55 °F	80 °F	0.4	1/2"	PRICE FDV
FPV-15	OPEN OFFICE 04.1.004	PARALLEL	300	6"	8"	90	0.5	0.125	0.5	210	MERV 8	300	160 °F	140 °F	55 °F	80 °F	0.8	1/2"	PRICE FDV
FPV-16	OPEN OFFICE 04.1.008	PARALLEL	825	8"	10"	250	0.5	0.25	0.5	575	MERV 8	825	160 °F	140 °F	55 °F	80 °F	2	3/4"	PRICE FDV
FPV-17	CONF. RM. 04.1.019/WORK ROOM 04.1.017	PARALLEL	350	6"	8"	105	0.5	0.125	0.5	245	MERV 8	350	160 °F	140 °F	55 °F	80 °F	1	1/2"	PRICE FDV
FPV-18	OFFICE 04.1.022	PARALLEL	250	6"	8"	75	0.5	0.125	0.5	175	MERV 8	250	160 °F	140 °F	55 °F	90 °F	1	1/2"	PRICE FDV
FPV-19	OFFICE 04.1.023/024	PARALLEL	300	6"	8"	90	0.5	0.125	0.5	210	MERV 8	300	160 °F	140 °F	55 °F	90 °F	1.2	1/2"	PRICE FDV
FPV-20	OFFICE 04.1.026/027/028	PARALLEL	300	6"	8"	90	0.5	0.125	0.5	210	MERV 8	300	160 °F	140 °F	55 °F	100 °F	2.2	3/4"	PRICE FDV
FPV-21	OFFICE 04.1.029/030/031/032	PARALLEL	450	8"	10"	135	0.5	0.125	0.5	315	MERV 8	450	160 °F	140 °F	55 °F	80 °F	2.5	3/4"	PRICE FDV
FPV-22	OPEN OFFICE 04.1.036	PARALLEL	1,050	10"	12"	315	0.5	0.25	0.5	735	MERV 8	1,050	160 °F	140 °F	55 °F	80 °F	2.6	3/4"	PRICE FDV
FPV-23	CONFERENCE ROOM 04.1.039/041	PARALLEL	450	8"	10"	135	0.5	0.125	0.5	315	MERV 8	450	160 °F	140 °F	55 °F	80 °F	1.2	1/2"	PRICE FDV
FPV-24	OFFICE 04.1.003/042/043	PARALLEL	400	6"	8"	120	0.5	0.125	0.5	280	MERV 8	400	160 °F	140 °F	55 °F	80 °F	1.1	1/2"	PRICE FDV
FPV-25	OFFICE 04.1.010/011/012/038	PARALLEL	525	8"	10"	160	0.5	0.125	0.5	365	MERV 8	525	160 °F	140 °F	55 °F	80 °F	1.4	1/2"	PRICE FDV
FPV-26	VISITATION 04.1.045	PARALLEL	530	8"	10"	160	0.5	0.125	0.5	370	MERV 8	530	160 °F	140 °F	55 °F	80 °F	0.8	1/2"	PRICE FDV
FPV-27	COURTROOM 04.2.001	PARALLEL	2,260	14"	16"	680	0.5	0.75	0.5	1,580	MERV 8	2,260	160 °F	140 °F	55 °F	80 °F	5.7	1"	PRICE FDV
FPV-28	OFFICE 04.1.018/020	PARALLEL	225	6"	8"	70	0.5	0.125	0.5	155	MERV 8	225	160 °F	140 °F	55 °F	80 °F	1.1	1/2"	PRICE FDV
FPV-29	STORAGE 04.1.035	PARALLEL	350	6"	8"	105	0.5	0.125	0.5	245	MERV 8	350	160 °F	140 °F	55 °F	90 °F	1.2	1/2"	PRICE FDV

MOTOR STARTERS

	ELECTRICAL DATA						STARTER				DISCONNECT			
DESCRIPTION	MCA	MOCP	HP	VOLTAGE	PHASE	KW	FURNISHED BY	INSTALLED BY	LOCATION	TYPE	FURNISHED BY	INSTALLED BY	LOCATION	REMARKS
AHU-10-1			15	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	UNIT HAS TWO (2) FAN MOTORS
AHU-10-2			15	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	UNIT HAS TWO (2) FAN MOTORS
AHU-10-3			15	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	UNIT HAS TWO (2) FAN MOTORS
AHU-N2			10	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
CE-1				120	1	0.06	HVAC	EC	NEAR UNIT	SP. SW.	EC	EC	NEAR UNIT	
CE-2				120	1	0.06	HVAC	EC	NEAR UNIT	SP. SW.	EC	EC	NEAR UNIT	
CE-3				120	1	0.06	HVAC	EC	NEAR UNIT	SP. SW.	EC	EC	NEAR UNIT	
CE-4				120	1	0.11	HVAC	EC	NEAR UNIT	SP. SW.	EC	EC	NEAR UNIT	
CE-5				120	1	0.11	HVAC	EC	NEAR UNIT	SP. SW.	EC	EC	NEAR UNIT	
CE-6				120	1	0.11	HVAC	EC	NEAR UNIT	SP. SW.	EC	EC	NEAR UNIT	
CE-7				120	1	0.06	HVAC	EC	NEAR UNIT	SP. SW.	EC	EC	NEAR UNIT	
CH-1			0.02	120	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
CH-2			0.02	120	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
CH-3			0.02	120	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
CH-4			0.02	120	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
CH-5			0.1	120	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
CH-6			0.1	120	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
CT-1			40	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
CT-2			40	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
DS-1				120	1	0.14	HVAC	EC	NEAR UNIT	SP. SW.	EC	EC	NEAR UNIT	
DS-2				120	1	0.14	HVAC	EC	NEAR UNIT	SP. SW.	EC	EC	NEAR UNIT	
DS-3				120	1	0.14	HVAC	EC	NEAR UNIT	SP. SW.	EC	EC	NEAR UNIT	
FPV-1			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-2			0.25	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-3			0.25	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-4			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-5			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-6			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-7			0.25	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-8			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-9			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-10			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-11			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-12			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-13			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-14			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-15			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-16			0.25	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-17			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-18			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-19			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-20			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-21			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-22			0.25	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-23			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-24			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-25			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-26			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-27			0.75	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-28			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
FPV-29			0.13	277	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
IP-1			5	480	3		HVAC	EC	NEAR UNIT	VFD	EC	EC	NEAR UNIT	
IP-2			5	480	3		HVAC	EC	NEAR UNIT	VFD	EC	EC	NEAR UNIT	
IP-3			3	480	3		HVAC	EC	NEAR UNIT	VFD	EC	EC	NEAR UNIT	
IP-4			0.17	120	1		HVAC	EC	NEAR UNIT	MAN.	HVAC	-	PRE-WIRED	
OU-1	18	30		208	1		HVAC	HVAC	PRE-WIRED	-	HVAC	EC	NEAR UNIT	
OU-2	18	30		208	1		HVAC	HVAC	PRE-WIRED	-	HVAC	EC	NEAR UNIT	
OU-3	18	30		208	1		HVAC	HVAC	PRE-WIRED	-	HVAC	EC	NEAR UNIT	
OU-4	18	30		208	1		HVAC	HVAC	PRE-WIRED	-	HVAC	EC	NEAR UNIT	
P-1			50	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
P-2			50	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
P-3			50	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
P-4			40	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
P-5			40	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
P-6			40	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
P-7			30	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
P-8			30	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
P-9			30	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
RAC-1	1	15		208	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
RAC-2	1	15		208	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
RAC-3	1	15		208	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
RAC-4	1	15		208	1		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
RE-1			2	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
RE-2			0.25	120	1		HVAC	EC	NEAR UNIT	SP. SW.	HVAC	-	PRE-WIRED	
RE-3			0.5	120	1		HVAC	EC	NEAR UNIT	SP. SW.	HVAC	-	PRE-WIRED	
RE-4			0.25	120	1		HVAC	EC	NEAR UNIT	SP. SW.	HVAC	-	PRE-WIRED	
RE-5			0.13	120	1		HVAC	EC	NEAR UNIT	SP. SW.	HVAC	-	PRE-WIRED	
RE-6			0.13	120	1		HVAC	EC	NEAR UNIT	SP. SW.	HVAC	-	PRE-WIRED	
RF-10-1			7.5	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
RF-10-2			7.5	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
RF-10-3			7.5	480	3		HVAC	EC	NEAR UNIT	VFD	HVAC	-	PRE-WIRED	
UH-1			0.07	120	1		HVAC	EC	NEAR UNIT	MAN.	EC	EC	NEAR UNIT	
UH-2			0.07	120	1		HVAC	EC	NEAR UNIT	MAN.	EC	EC	NEAR UNIT	
UH-3			0.07	120	1		HVAC	EC	NEAR UNIT	MAN.	EC	EC	NEAR UNIT	
WCC-1	490	684		480	3		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	
WCC-2	490	684		480	3		HVAC	HVAC	PRE-WIRED	-	EC	EC	NEAR UNIT	

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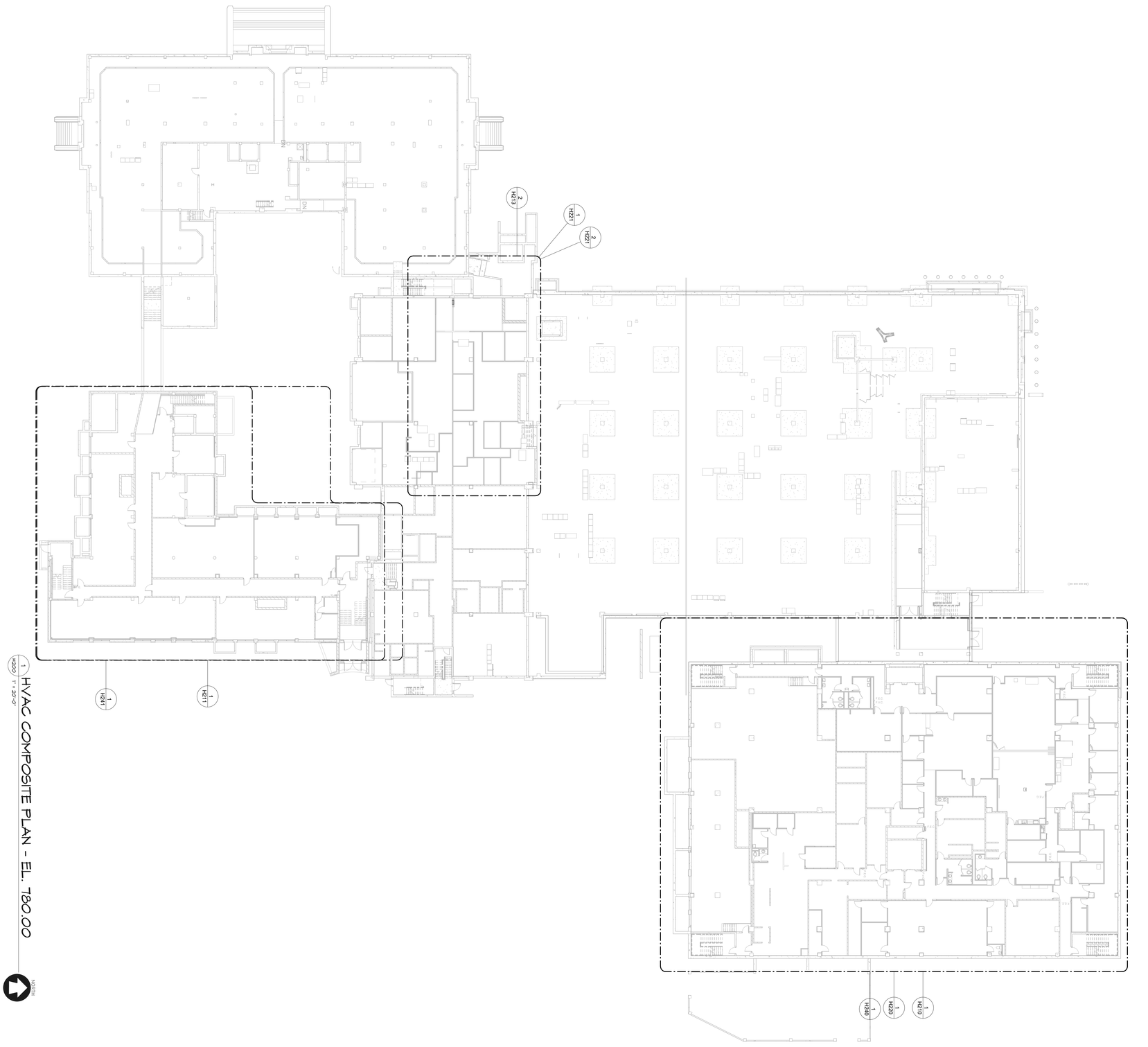
NO. | DATE | REVISION

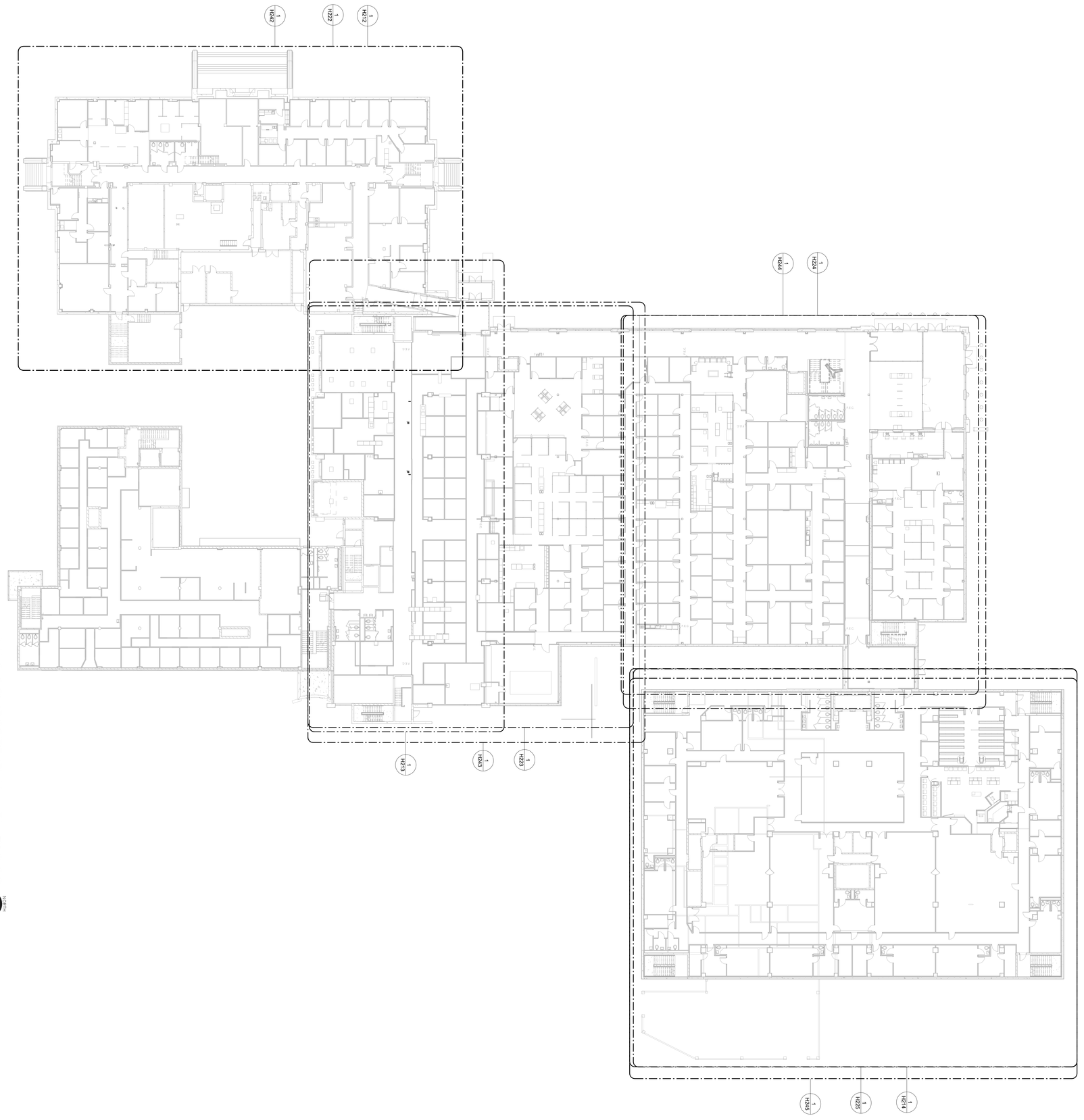
ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
HVAC SCHEDULES

DESIGNED	DRAWN
RA	JJ

PROJECT NO. O0002-61600160
DATE MARCH 3, 2017
SHEET NO. H003

J:\Projects\Revit Users Locals\Jamie J\2016\16-083H-C16_JJ.rvt


2
H2/3
1
H2/1
2
H2/1
1
H2/1
1
H2/1
1
H2/0
1
H2/0
1
H2/0



1 H201 HVAC COMPOSITE PLAN - EL. 790.00
1" = 30'-0"
NORTH

ALTERATION / ADDITION

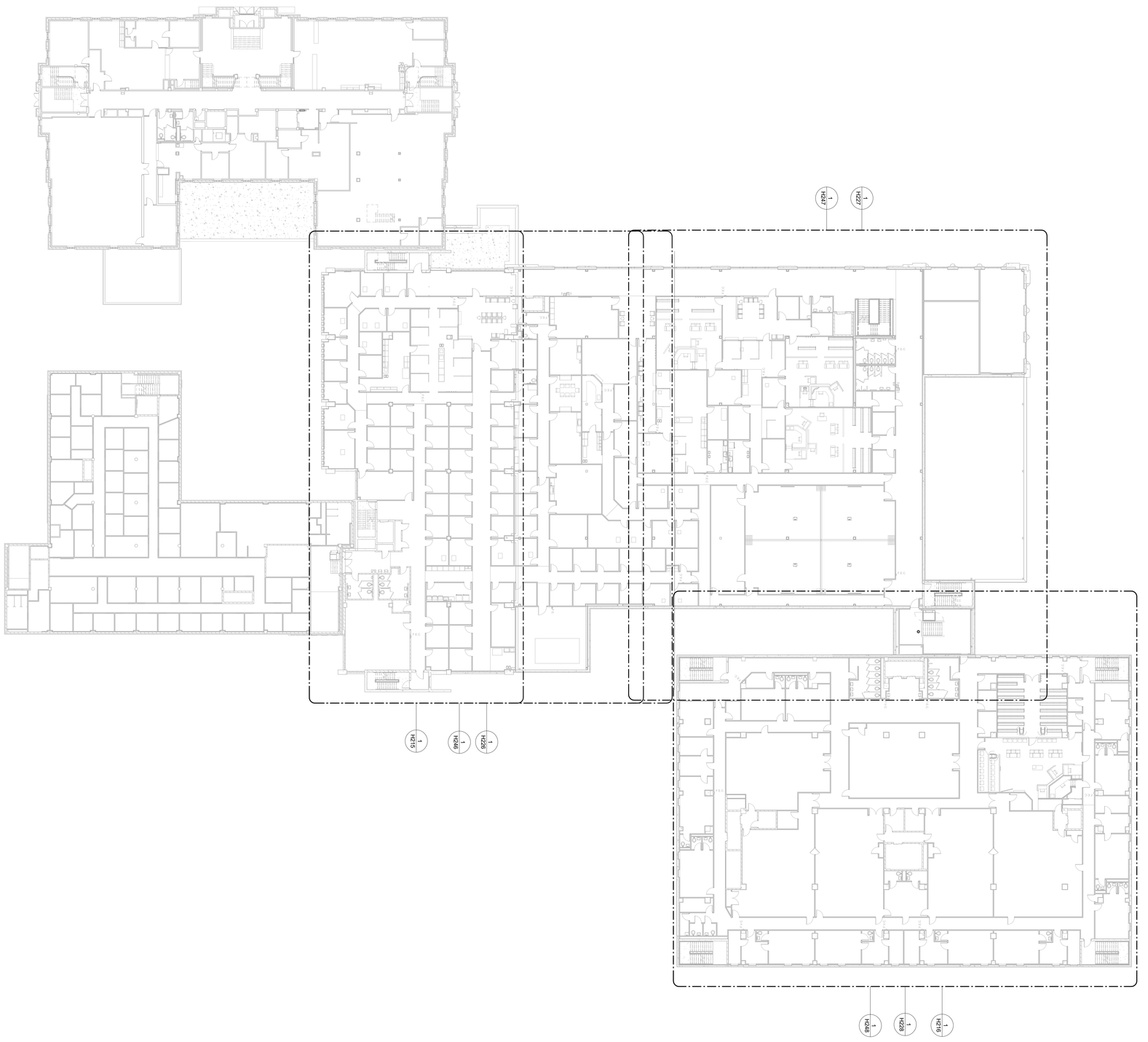
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC COMPOSITE PLAN

NO.	DATE	REVISION

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DESIGNED: RA
DRAWN: JJ
PROJECT NO.: 000024160160
DATE: MARCH 3, 2017
SHEET NO.: H201

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1 H202 / 1" = 20'-0"

HVAC COMPOSITE PLAN - EL. 805.00

VERTEX

ALTERATION / ADDITION

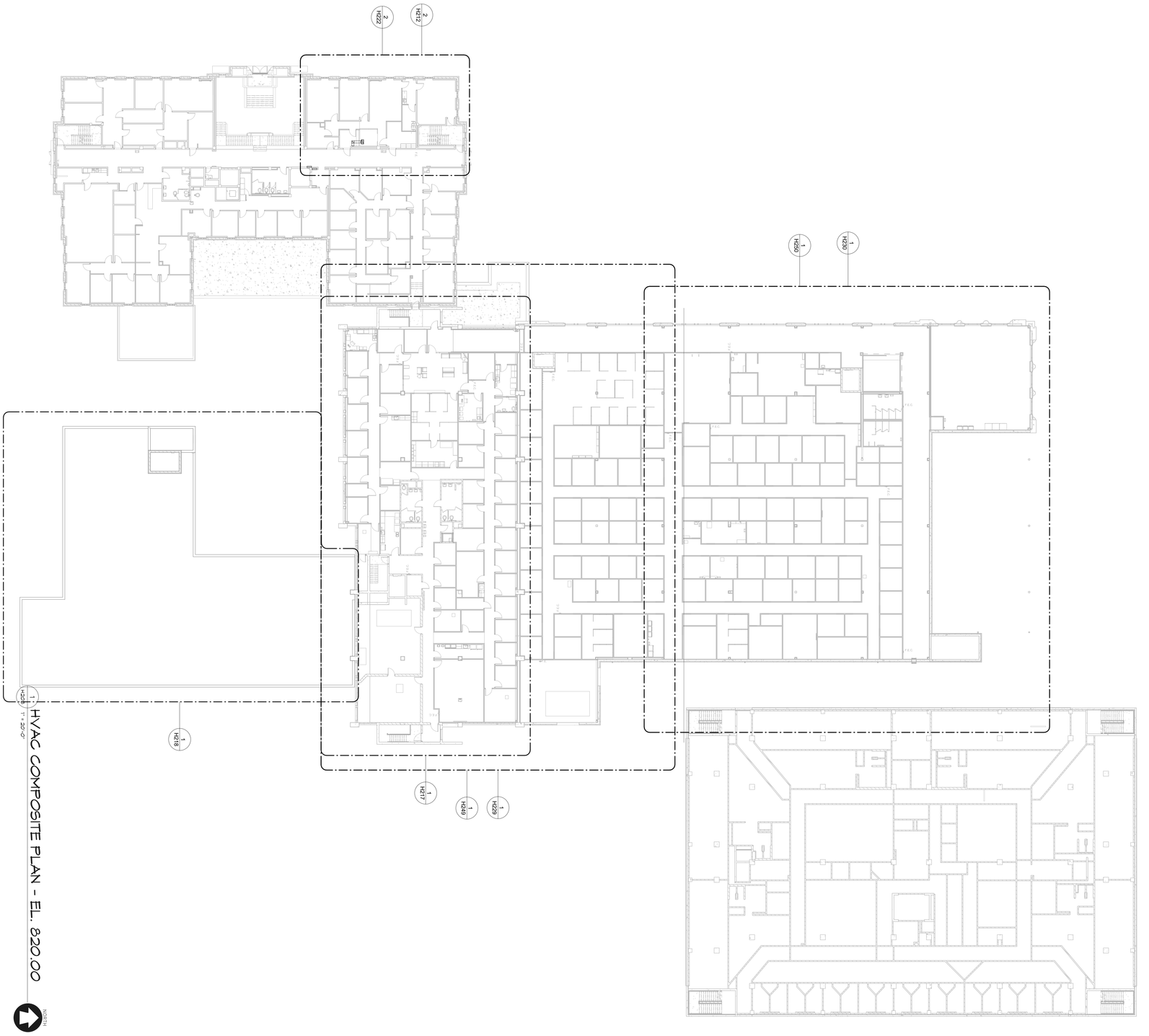
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 805.00 HVAC COMPOSITE PLAN

NO.	DATE	REVISION

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DESIGNED: RA
DRAWN: JJ
PROJECT NO: 0083G-61600160
DATE: MARCH 3, 2017
SHEET NO: H202



HVAC COMPOSITE PLAN - EL. 820.00

H203

DESIGNED RL DRAWN JJ
PROJECT NO. 000024-61600160
DATE MARCH 2, 2017
SHEET NO.

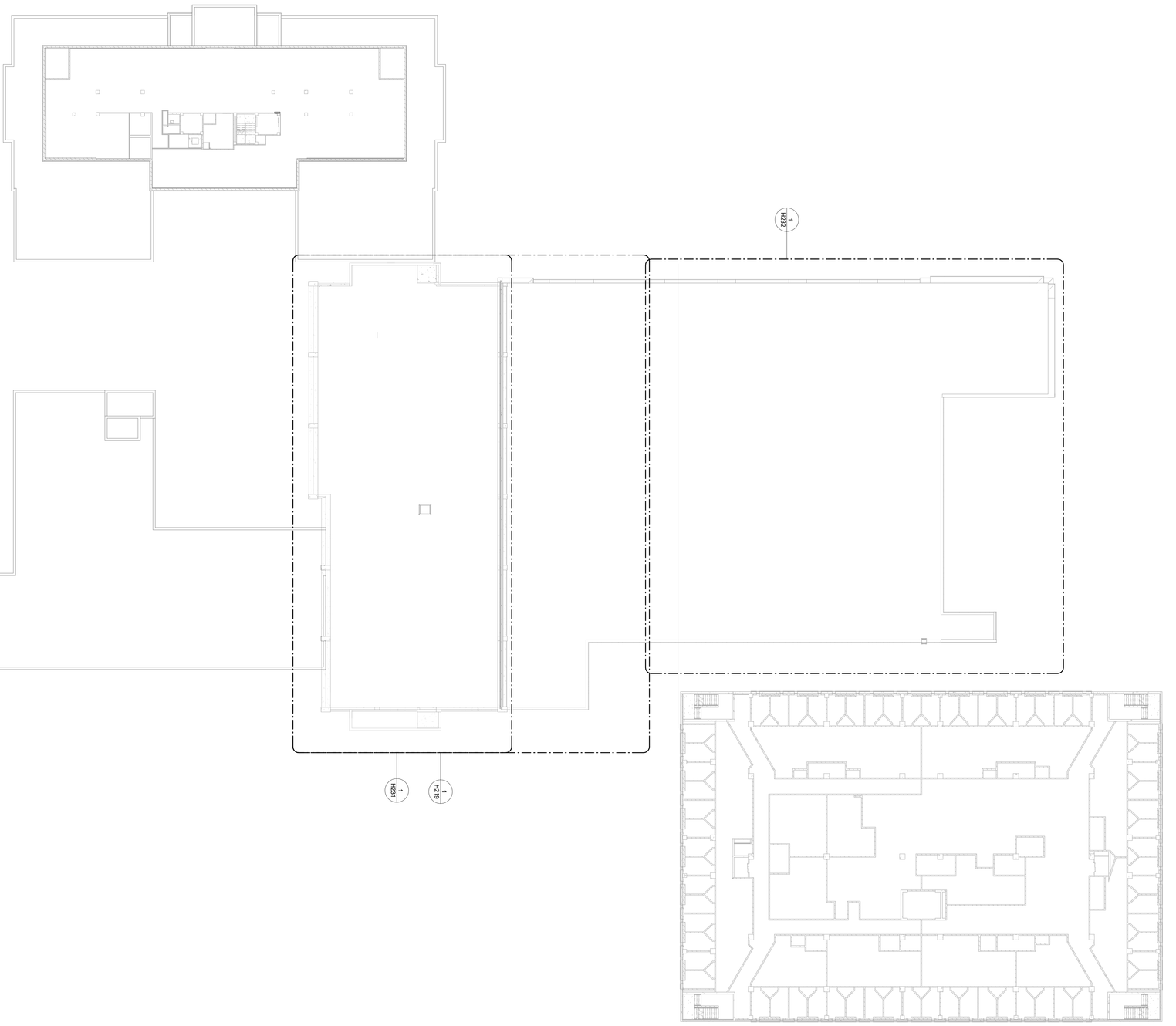
ALTERATION / ADDITION

OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 820.00 HVAC COMPOSITE PLAN

NO.	DATE	REVISION

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1 HVAC COMPOSITE PLAN - EL. 835.00
H204
1" = 20'-0"

NORTH

ALTERATION / ADDITION

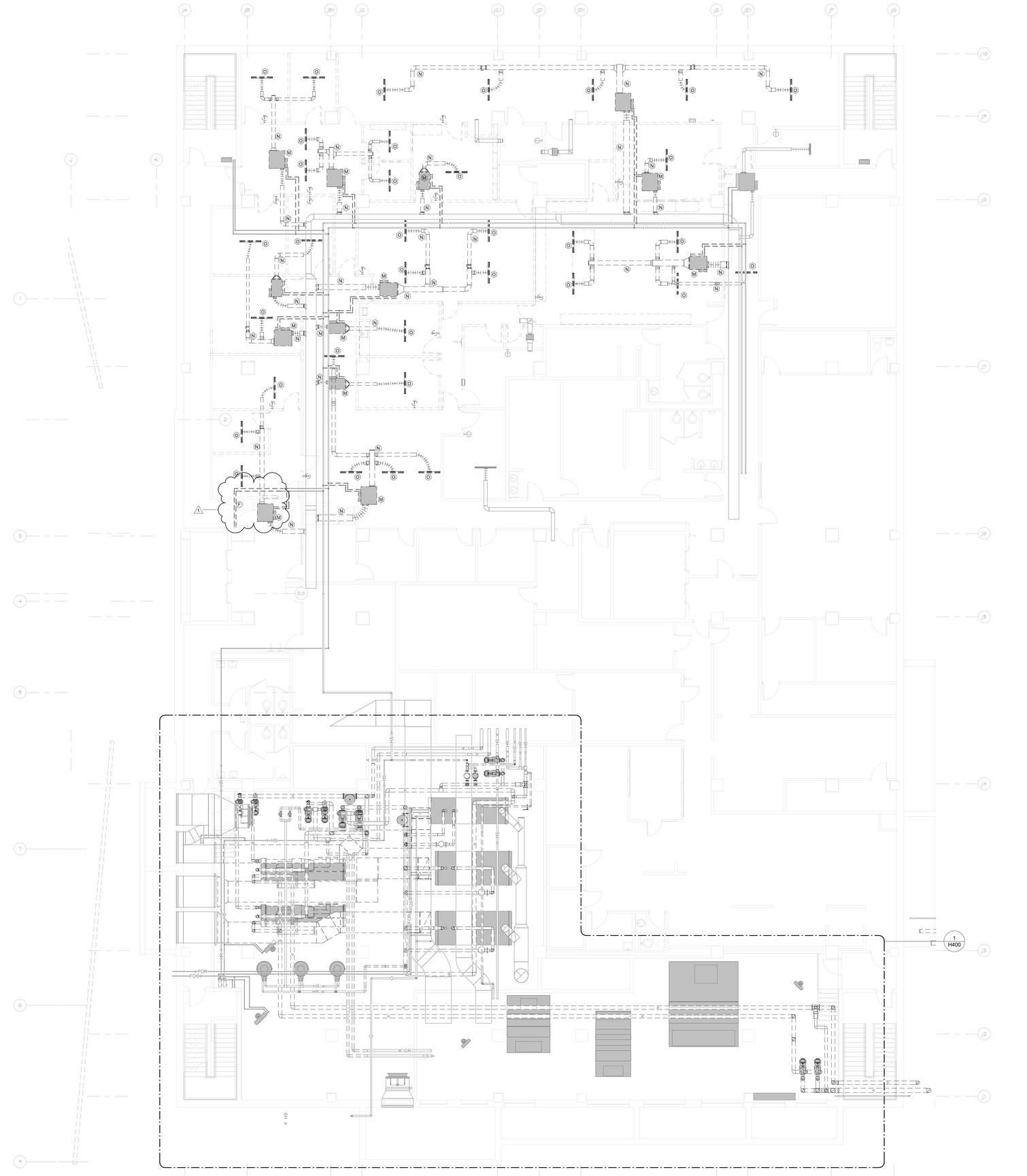
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 835.00 HVAC COMPOSITE PLAN

NO.	DATE	REVISION

DESIGNED: RM | DRAWN: JJ
PROJECT NO: 0300(24160)160
DATE: MARCH 3, 2017
SHEET NO: H204

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DEMOLITION SYMBOL	DESCRIPTION
———————	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES

HEX SYMBOL	DESCRIPTION
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.

1 H210 ENLARGED DEMOLITION PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

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NO.	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 780.00 HVAC DEMOLITION PLAN - JUSTICE CENTER

DESIGNED	DRAWN
RA	JJ

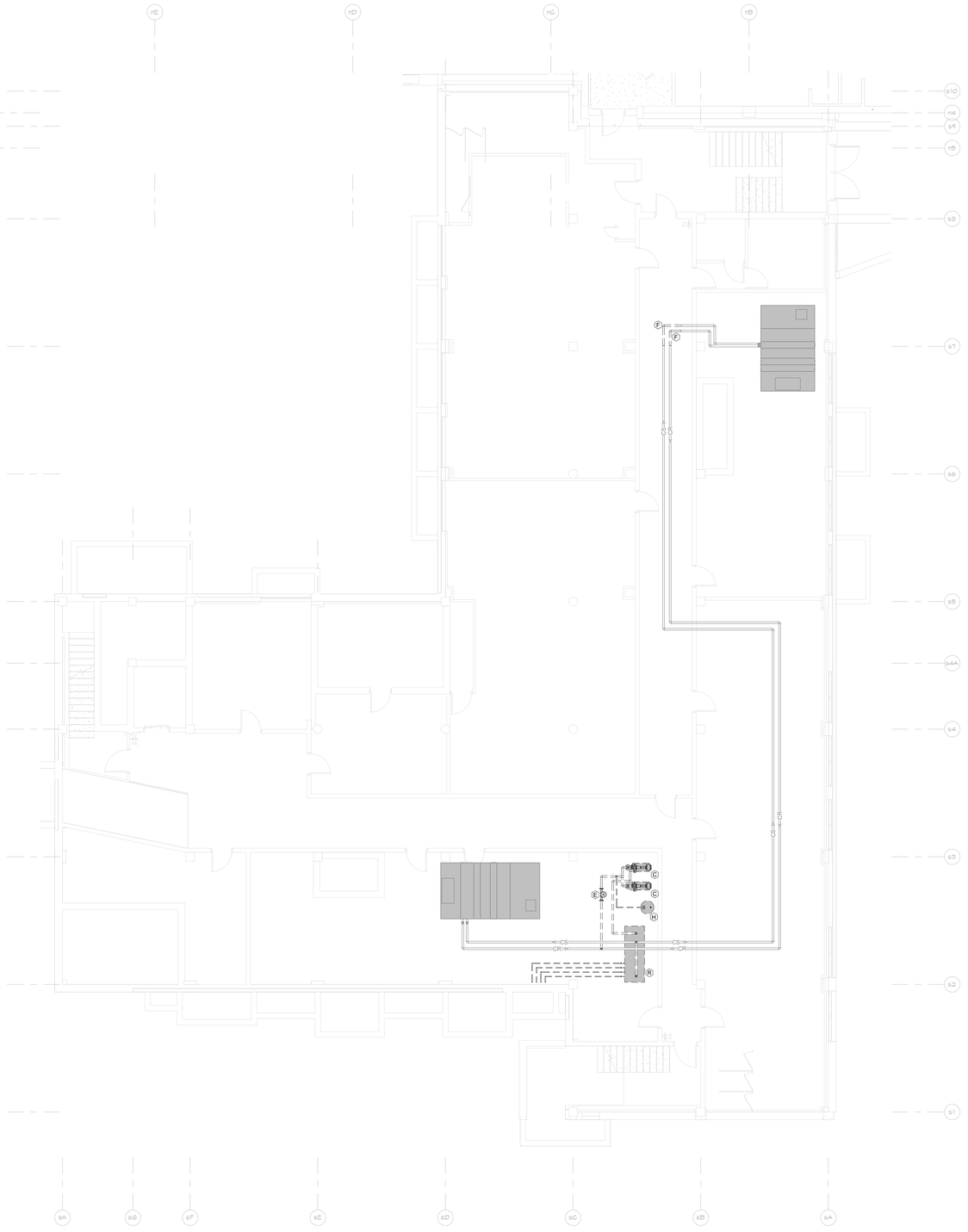
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H210

3/30/2017 12:32:27 PM
J:\Projects\Revit Users Locals\Jamie J\2016\16-0834-C16_JJ.rvt

3/30/2017 12:32:30 PM



DEMOLITION SYMBOL	DESCRIPTION
————	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES

HEX SYMBOL	DESCRIPTION
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.

1 H211 ENLARGED DEMOLITION PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 780.0 HVAC DEMOLITION PLAN - HHS SOUTH

DESIGNED	DRAWN
RA	JJ

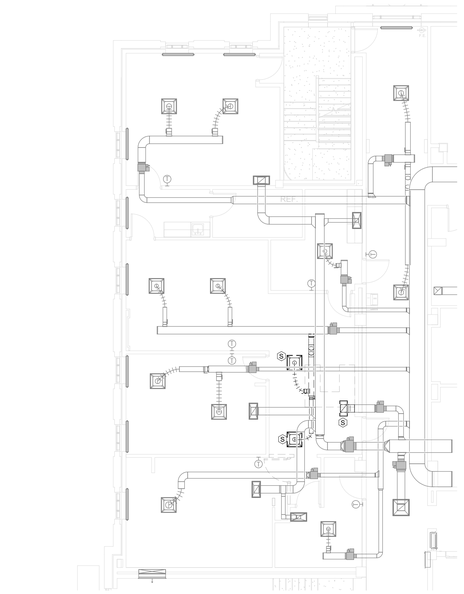
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H211

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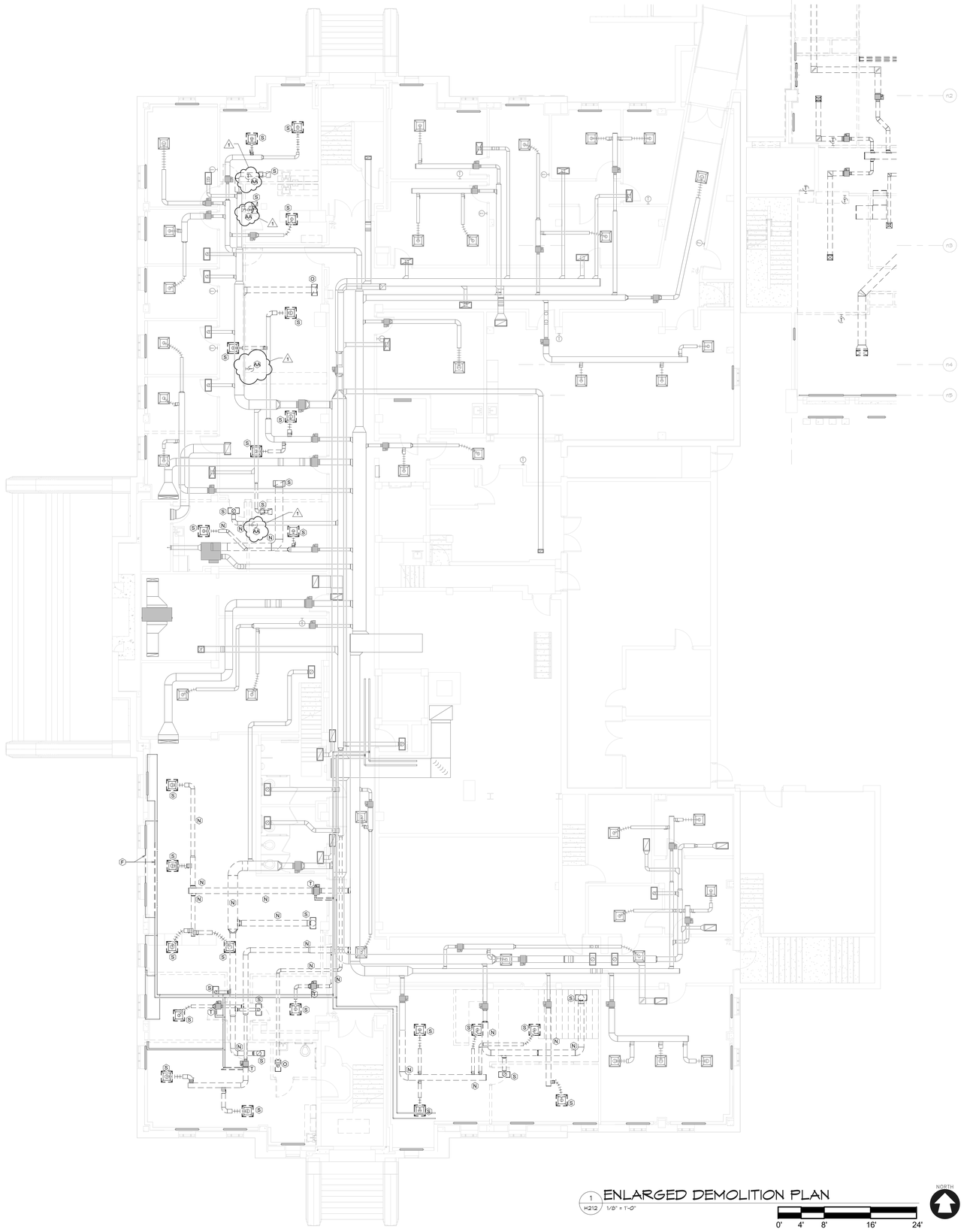
3/30/2017 12:32:38 PM



2 ENLARGED DEMOLITION PLAN
H212 1/8" = 1'-0"

0' 4' 8' 16' 24'

NORTH



1 ENLARGED DEMOLITION PLAN
H212 1/8" = 1'-0"

0' 4' 8' 16' 24'

NORTH

DEMOLITION SYMBOL	DESCRIPTION
————	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES

HEX SYMBOL	DESCRIPTION
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.

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NO.	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH. APPLETON WI 54911
LEVEL 790.00 HVAC DEMOLITION PLAN - CAB

DESIGNED	DRAWN
RA	JJ

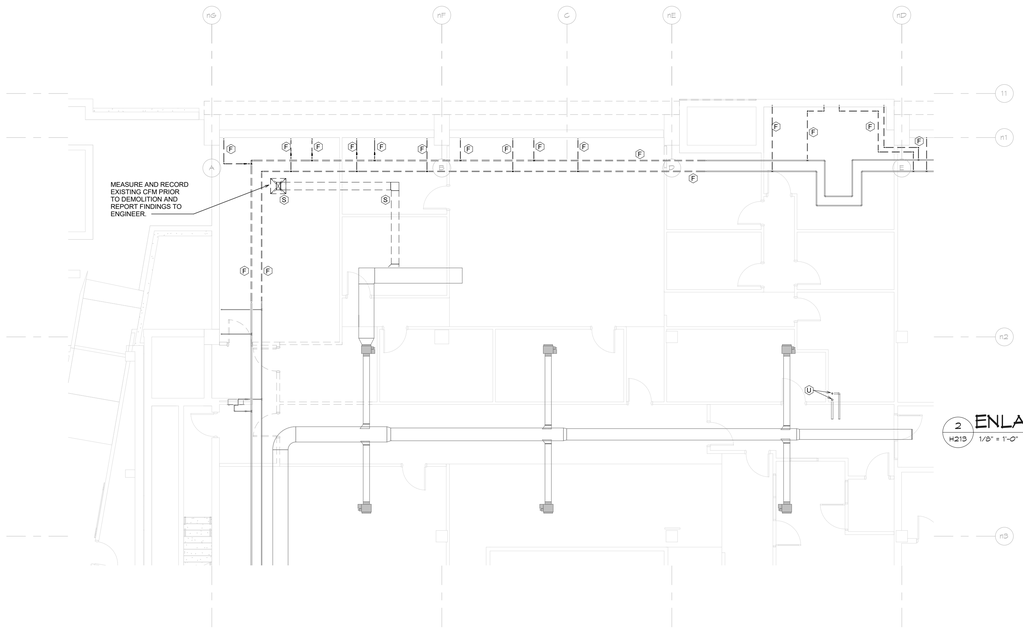
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H212

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2 H213 ENLARGED DEMOLITION PLAN - LEVEL 780
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES	
HEX SYMBOL	**DESCRIPTION**
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.

1 H213 ENLARGED DEMOLITION PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Madison Office: 1500 Fourier Drive, Suite 250
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NO	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC DEMOLITION PLAN - HHS NORTH

DESIGNED	DRAWN
RA	JJ

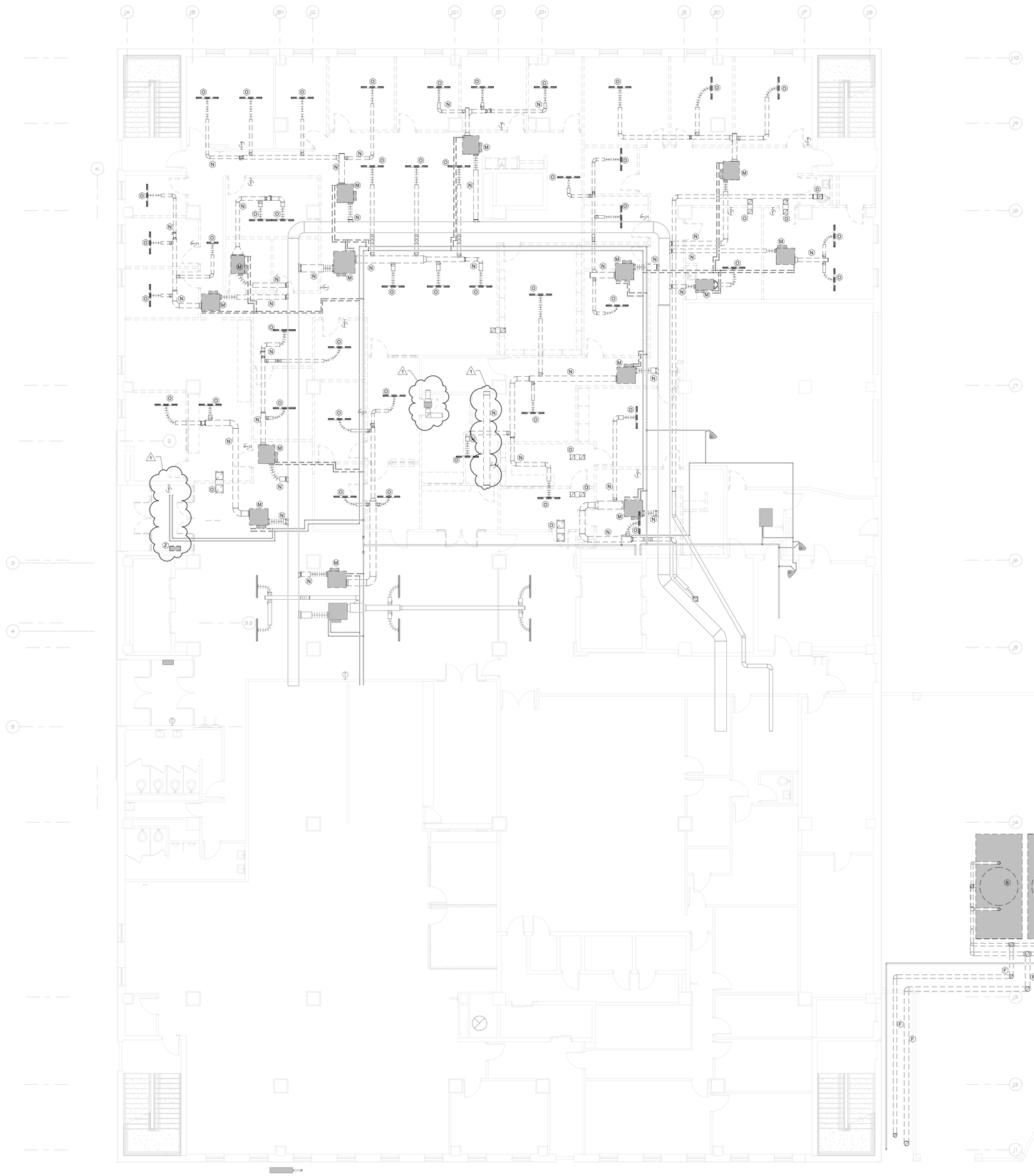
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H213

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DEMOLITION SYMBOL	DESCRIPTION
————	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES	
HEX SYMBOL	**DESCRIPTION**
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.

1 H214 ENLARGED DEMOLITION PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Madison, WI 53562 Milwaukee, WI 53202
Tel: (920) 751-4200 Fax: (920) 751-4284
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NO	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC DEMOLITION PLAN - JUSTICE CENTER

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H214

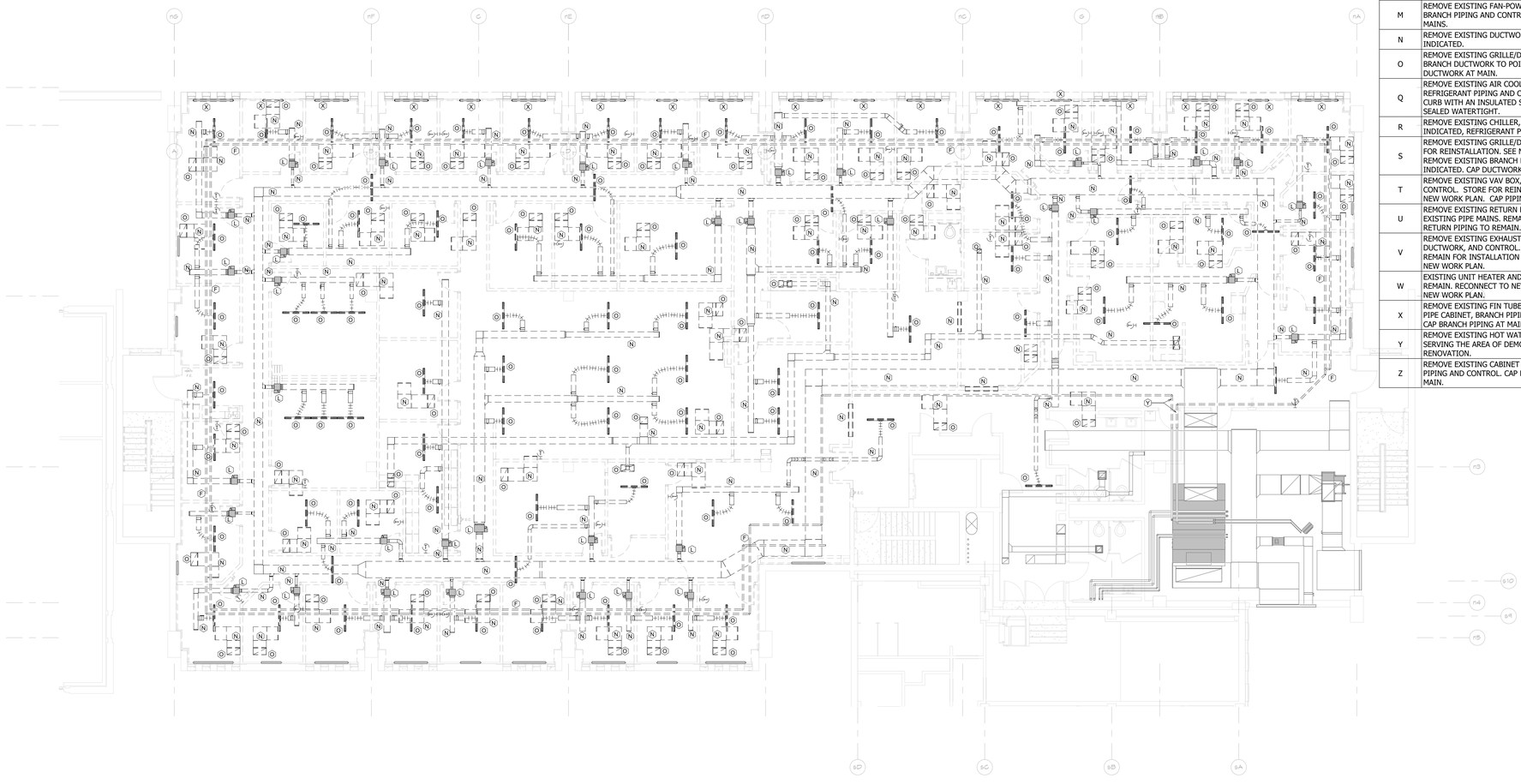
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DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES

HEX SYMBOL	DESCRIPTION
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX. BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.



1 H215 ENLARGED DEMOLITION PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Madison (608) 241-8000 Milwaukee (414) 431-1625
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 805.00 HVAC DEMOLITION PLAN - HHS NORTH

DESIGNED	DRAWN
RA	JJ

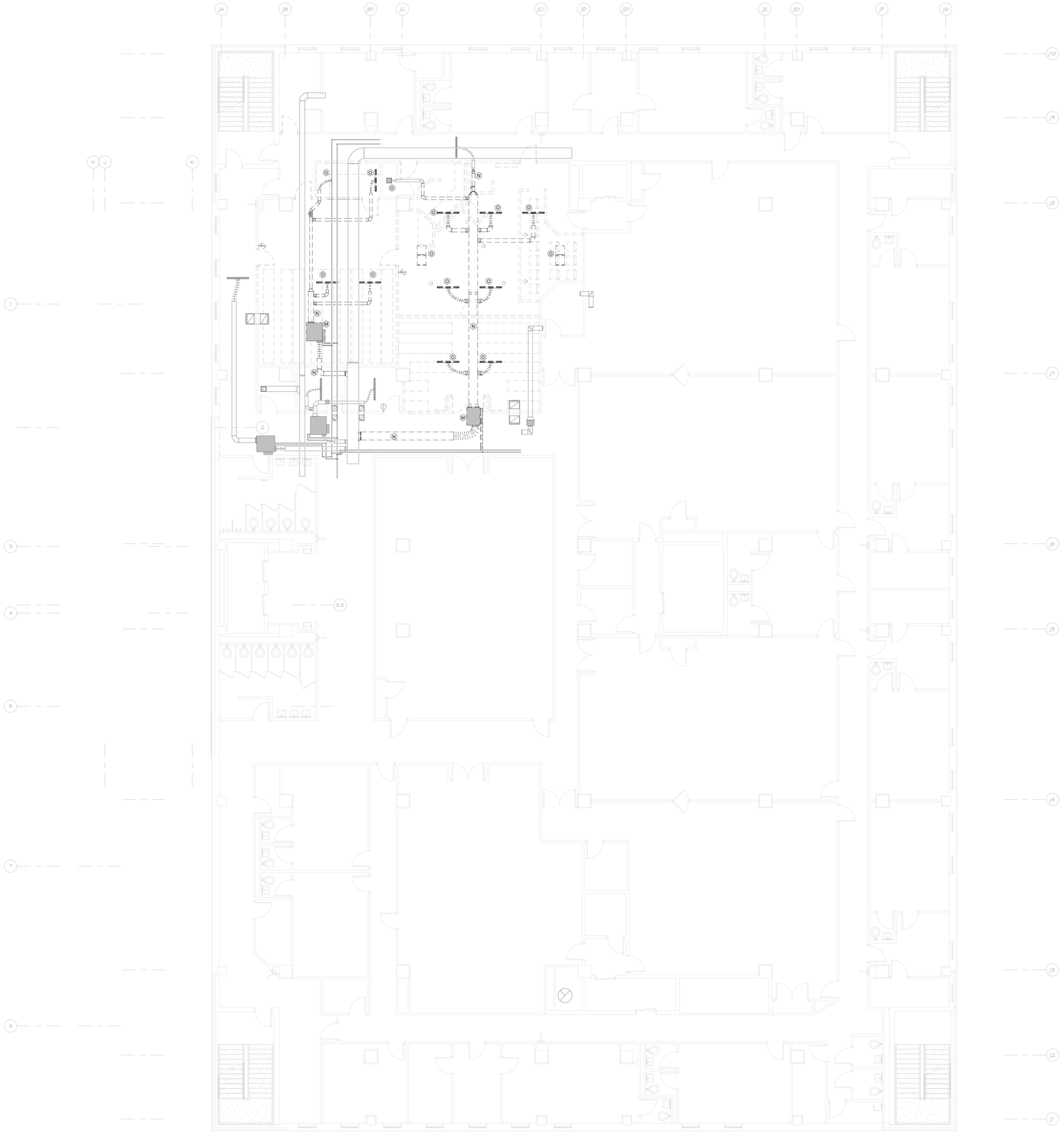
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H215

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DEMOLITION SYMBOL	DESCRIPTION
————————	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES	
HEX SYMBOL	**DESCRIPTION**
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.

1 H216 ENLARGED DEMOLITION PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Madison, WI 53562 Milwaukee, WI 53223
Tel: (920) 751-4200 Fax: (920) 751-4284
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 805.00 HVAC DEMOLITION PLAN - JUSTICE CENTER

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

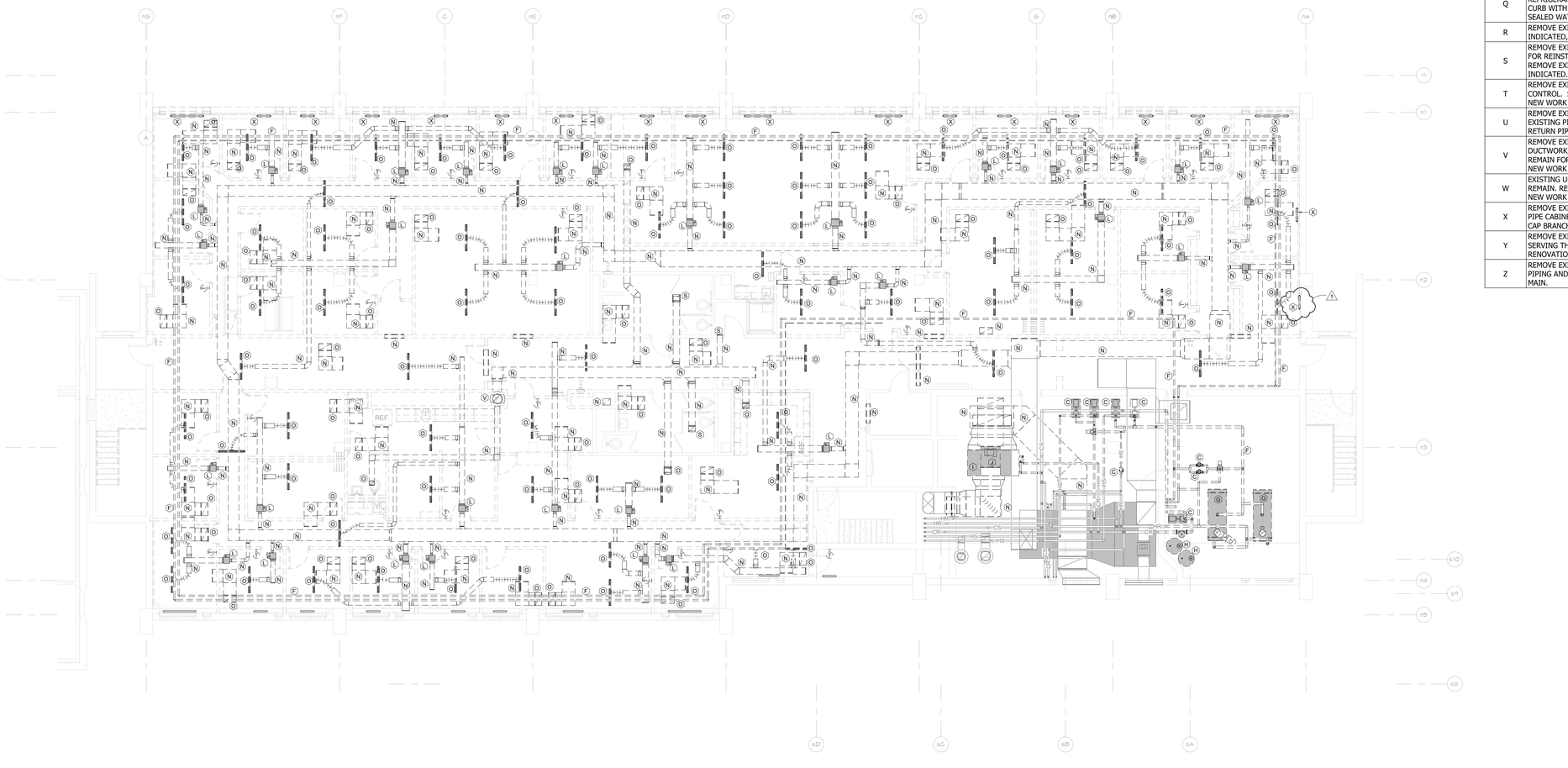
SHEET NO.
H216

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DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES	
HEX SYMBOL	**DESCRIPTION**
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.



1 H217 ENLARGED DEMOLITION PLAN 1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Madison (608) 661-4000 Milwaukee (414) 431-4025
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NO.	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 820.00 HVAC DEMOLITION PLAN - HHS NORTH

DESIGNED	DRAWN
RA	JJ

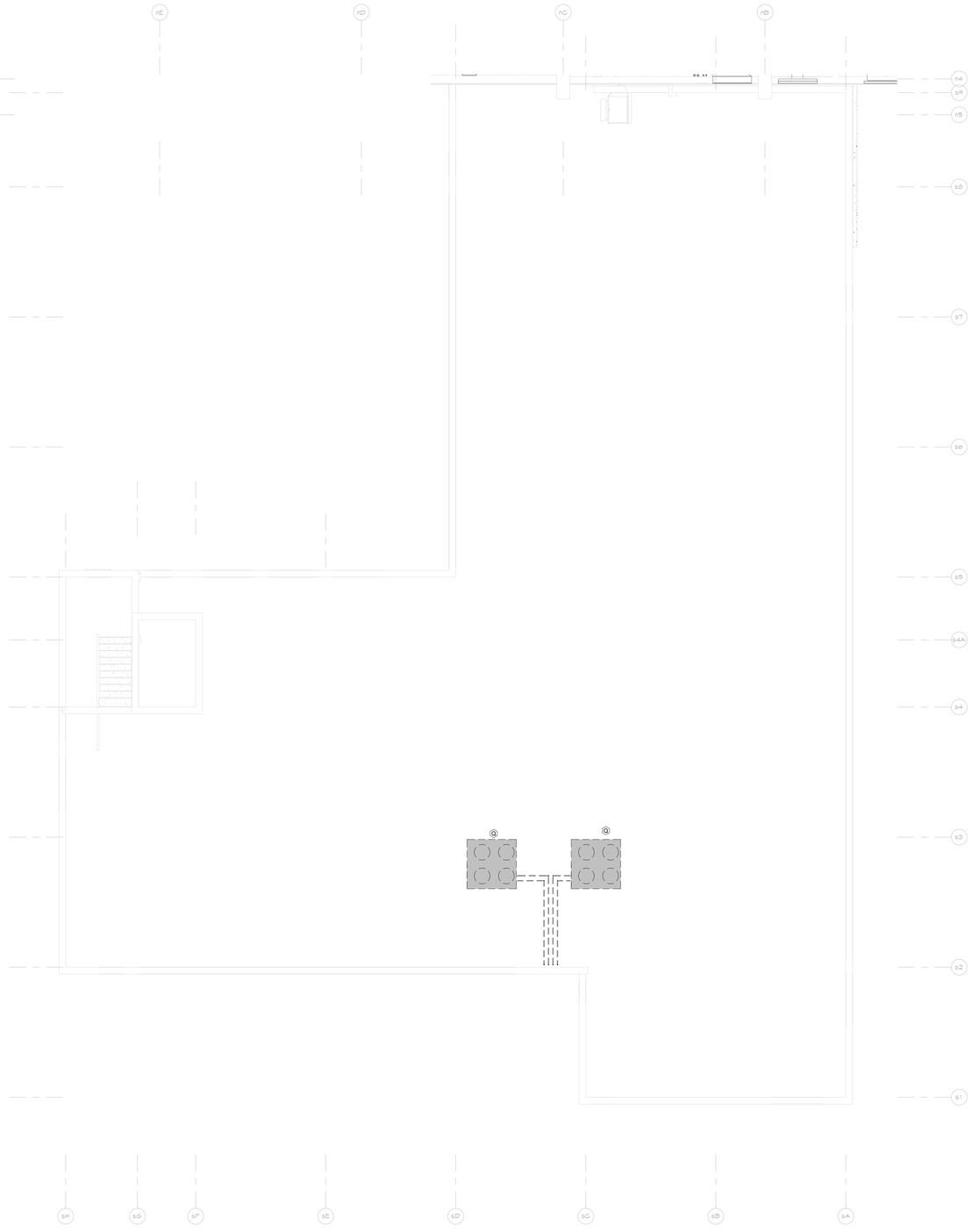
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H217

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1 H218 ENLARGED DEMOLITION PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

DEMOLITION SYMBOL	DESCRIPTION
————	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES	
HEX SYMBOL	**DESCRIPTION**
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.

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1445 McMAHON DRIVE NEENAH, WI 54956
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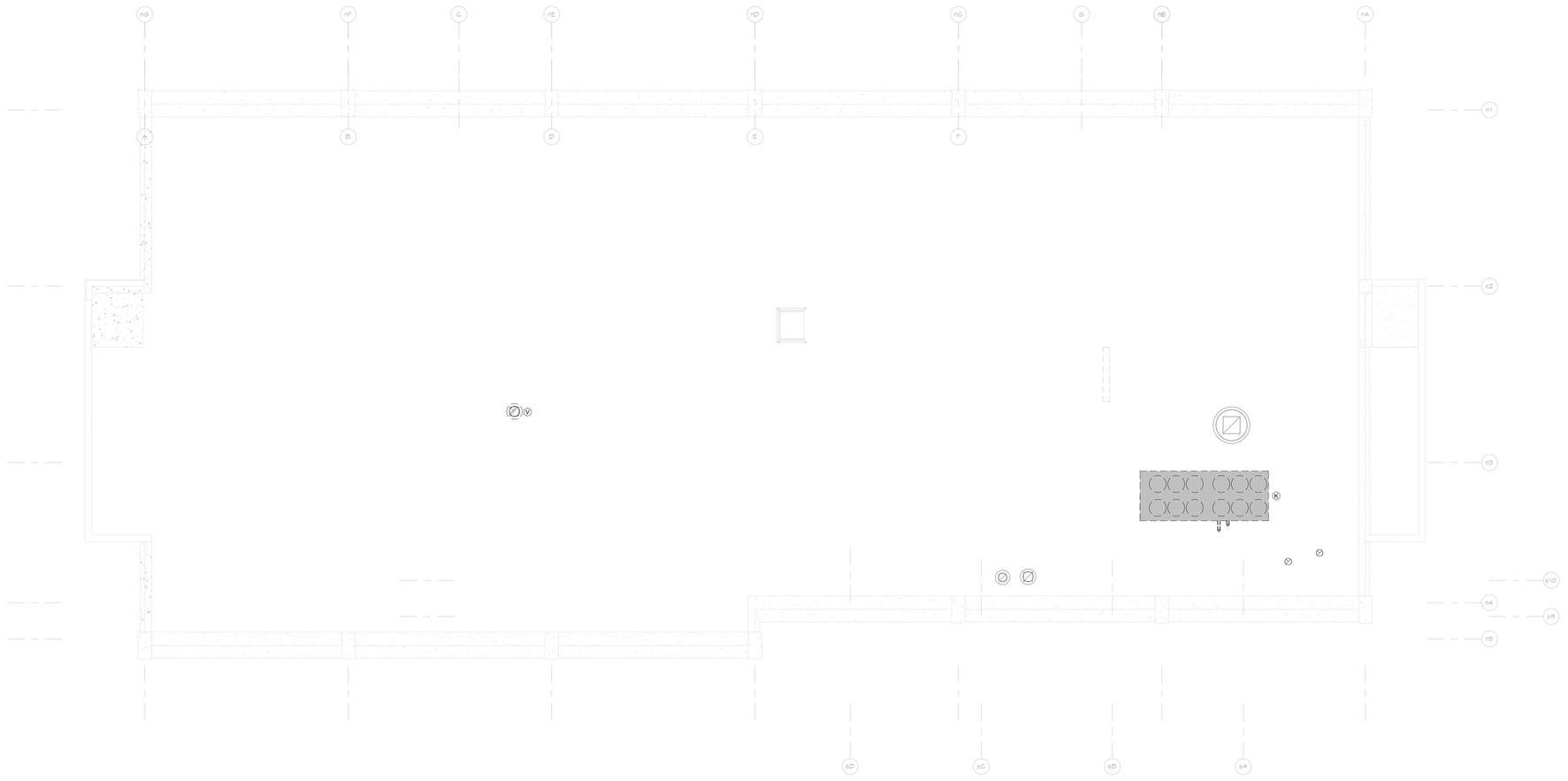
ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 820.0 HVAC DEMOLITION PLAN - HHS SOUTH

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160
DATE
MARCH 3, 2017
SHEET NO.
H218

J:\Projects\Revit Users Locals\Jamie.JJ20161\6-0834-C16_JJ.rvt

3/30/2017 12:33:16 PM



1 H219 ENLARGED DEMOLITION PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

DEMOLITION SYMBOL	DESCRIPTION
———————	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES

HEX SYMBOL	DESCRIPTION
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.

McMAHON ENGINEERS ARCHITECTS
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 835.0 HVAC DEMOLITION PLAN - HHS NORTH

DESIGNED	DRAWN
RA	JJ

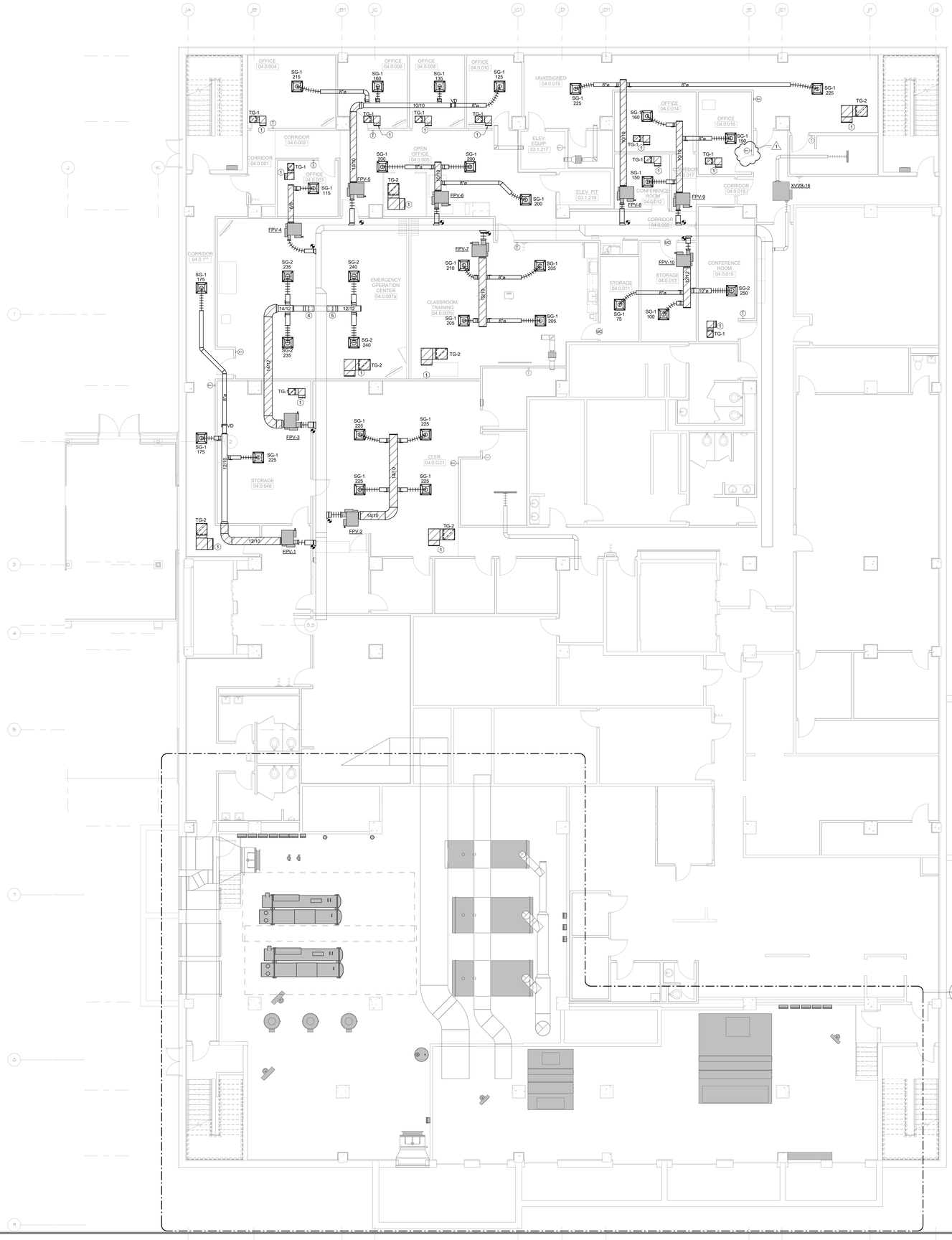
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H219

J:\Projects\Revit Users Locals\Jamie J\20161610-0834-C16_JJ.rvt

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KEYED PLAN NOTES

HEX SYMBOL	DESCRIPTION
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H220 ENLARGED DUCTWORK PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Madison Office: 6602 Normandy Lane, Madison, WI 53719-1253
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NO	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 780.00 HVAC DUCTWORK PLAN - JUSTICE CENTER

DESIGNED	DRAWN
RA	JJ

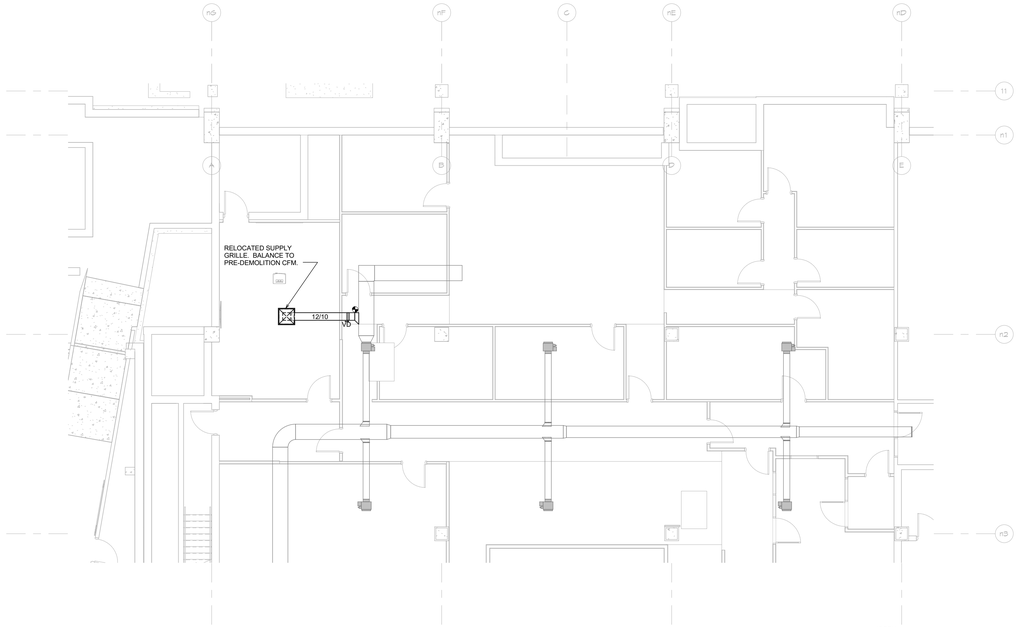
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H220

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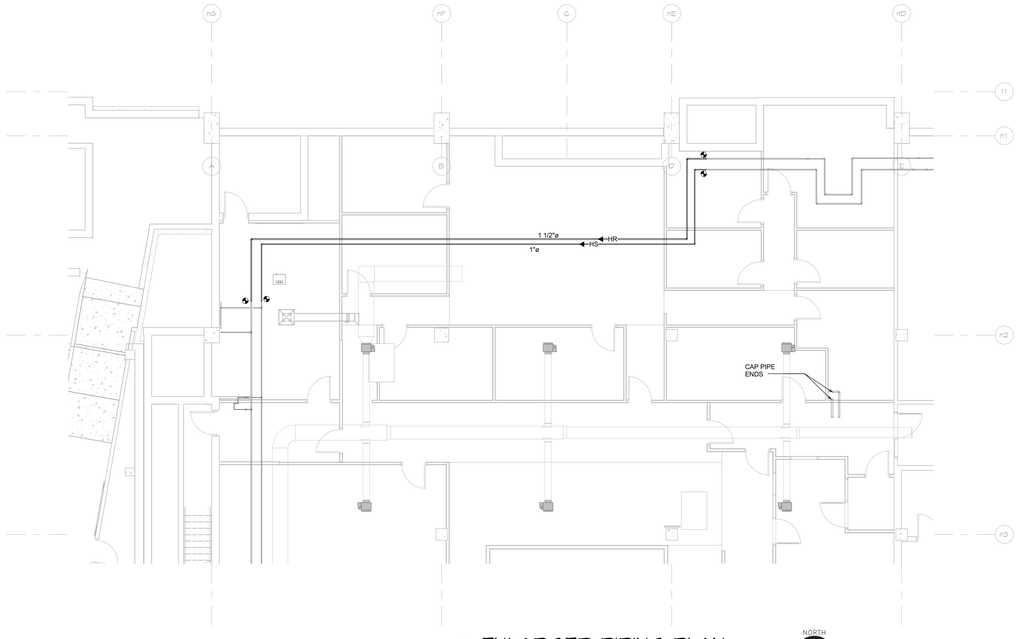
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1 H221 ENLARGED DUCTWORK PLAN
1/8" = 1'-0"
NORTH
0' 4' 8' 16' 24'

KEYED PLAN NOTES

HEX SYMBOL	DESCRIPTION
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.



2 H221 ENLARGED PIPING PLAN
1/8" = 1'-0"
NORTH
0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 780.00 HVAC DUCTWORK AND PIPING PLAN - HHS NORTH

DESIGNED	DRAWN
RA	JJ

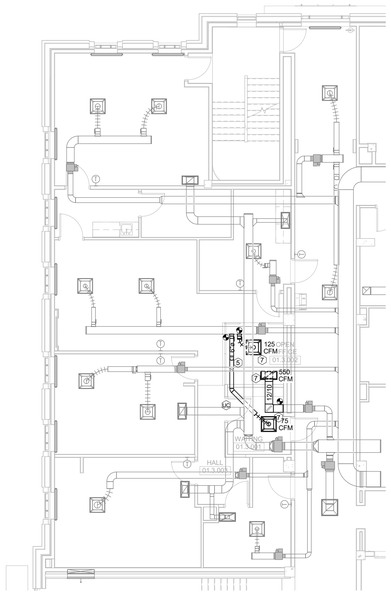
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H221

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2 H222 ENLARGED DUCTWORK PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'



1 H222 ENLARGED DUCTWORK PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

KEYED PLAN NOTES

HEX SYMBOL	DESCRIPTION
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

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NO	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC DUCTWORK PLAN - CAB

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H222

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KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

INSTALL NEW 38x38 FSD IN EXISTING RETURN OPENING. VERIFY EXACT SIZE AT SITE.

1 H223 ENLARGED DUCTWORK PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Madison, WI 53562 Milwaukee, WI 53202
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NO	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC DUCTWORK PLAN - HHS NORTH / OCAC SOUTH

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H223

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3/30/2017 12:33:52 PM

KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H224 ENLARGED DUCTWORK PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

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Madison (608) 661-4000 Milwaukee (414) 431-7025
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NO.	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC DUCTWORK PLAN - OCAC NORTH

DESIGNED	DRAWN
RA	JJ

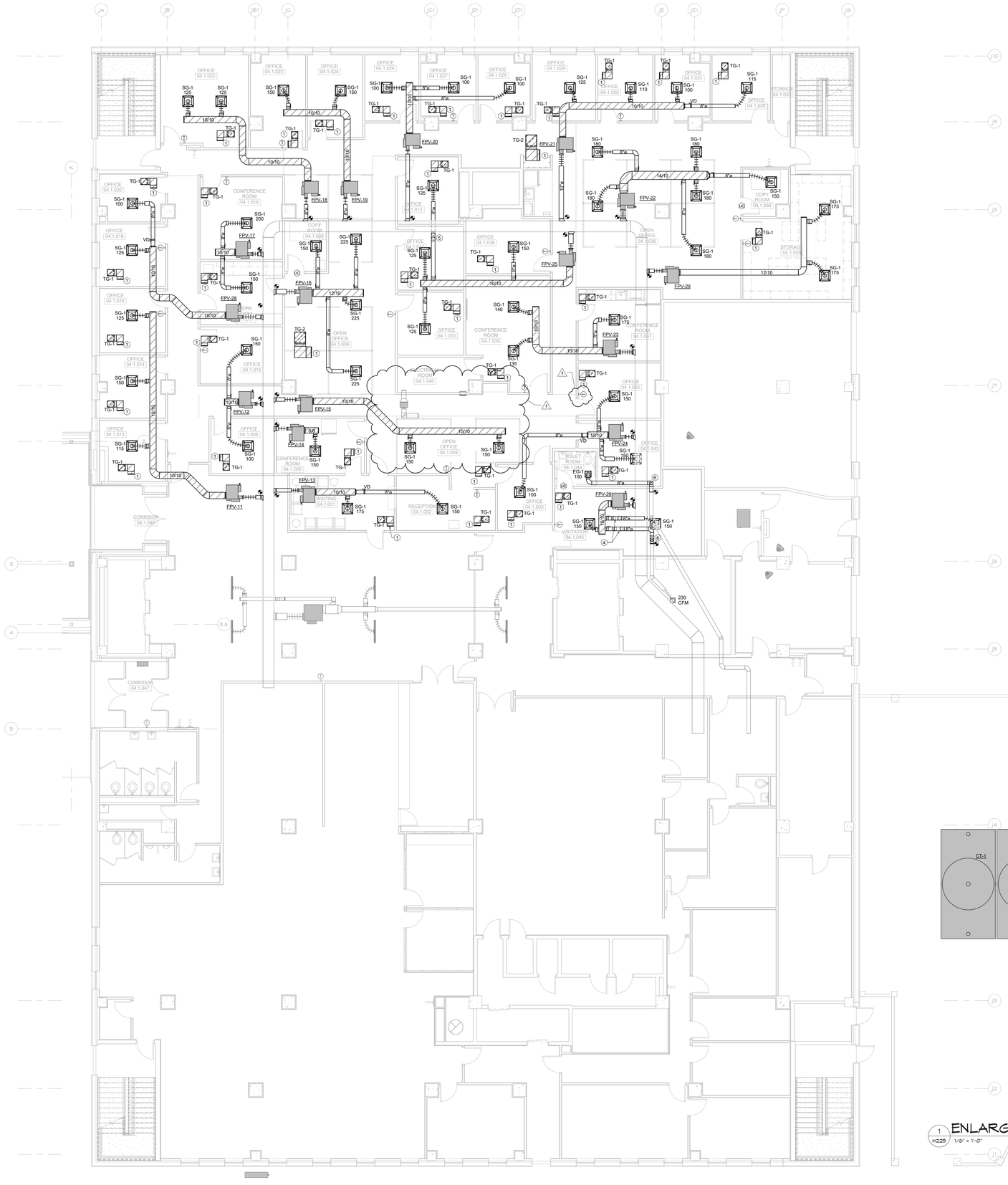
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H224

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KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H225 ENLARGED DUCTWORK PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
LA CROSSE, WI 54603 MADISON, WI 53717
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NO	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC DUCTWORK PLAN - JUSTICE CENTER

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

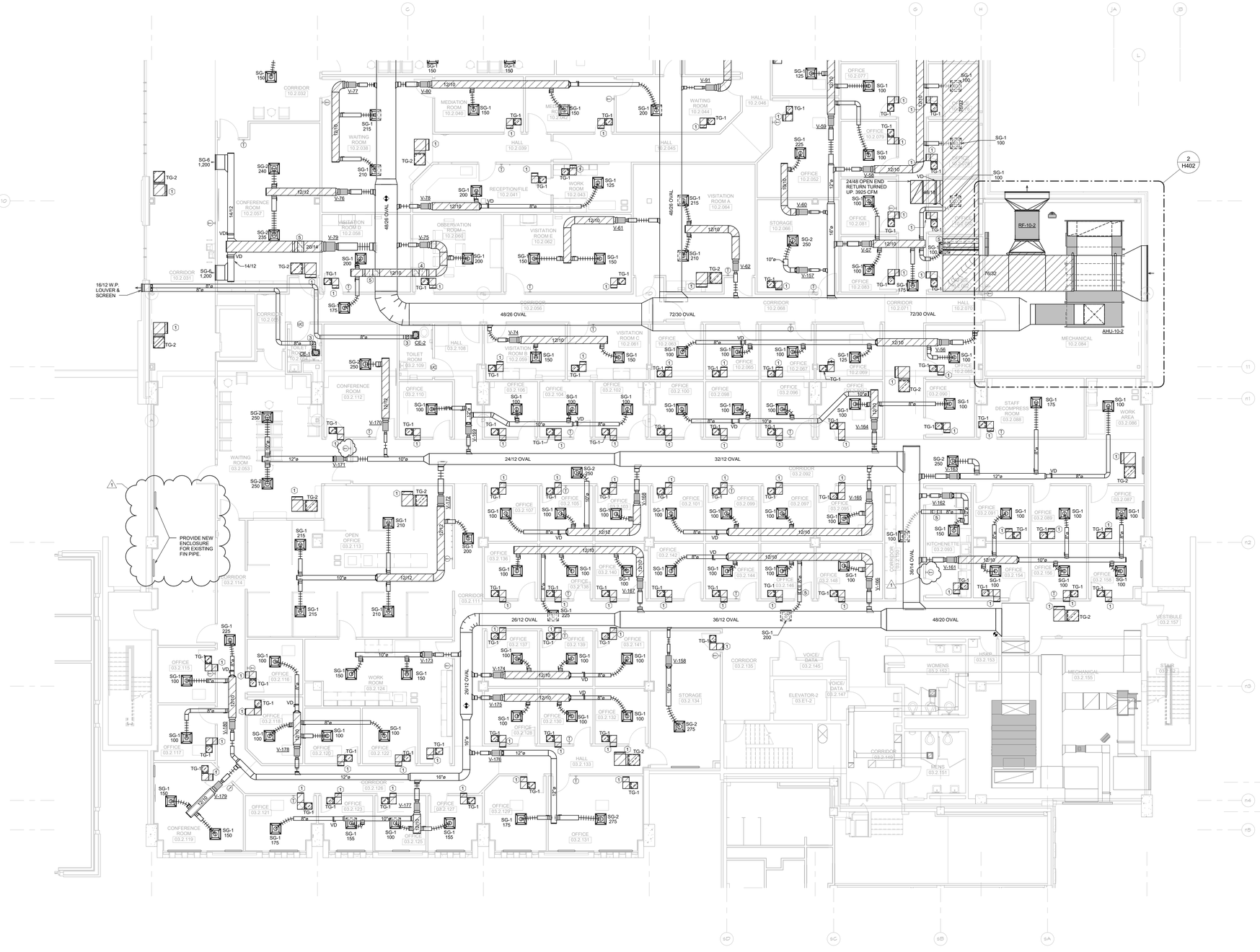
DATE
MARCH 3, 2017

SHEET NO.
H225

J:\Projects\Revit Users Locals\Jamie JJ\20161604-0839-C16_JJ.rvt

3/30/2017 12:34:10 PM

KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.



1 H226 ENLARGED DUCTWORK PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Madison (608) 661-4000 Milwaukee (262) 317-4725
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NO.	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 805.00 HVAC DUCTWORK PLAN - HHS NORTH / OCAC SOUTH

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H226

J:\Projects\Revit Users Locals\Jamie J\20161604-0834-C16_JJ.rvt

3/30/2017 12:34:20 PM

KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
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11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H227 ENLARGED DUCTWORK PLAN
1/8" = 1'-0"

0' 4' 8' 16' 24'

NORTH

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
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ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 805.00 HVAC DUCTWORK PLAN - OCAC NORTH

DESIGNED	DRAWN
RA	JJ

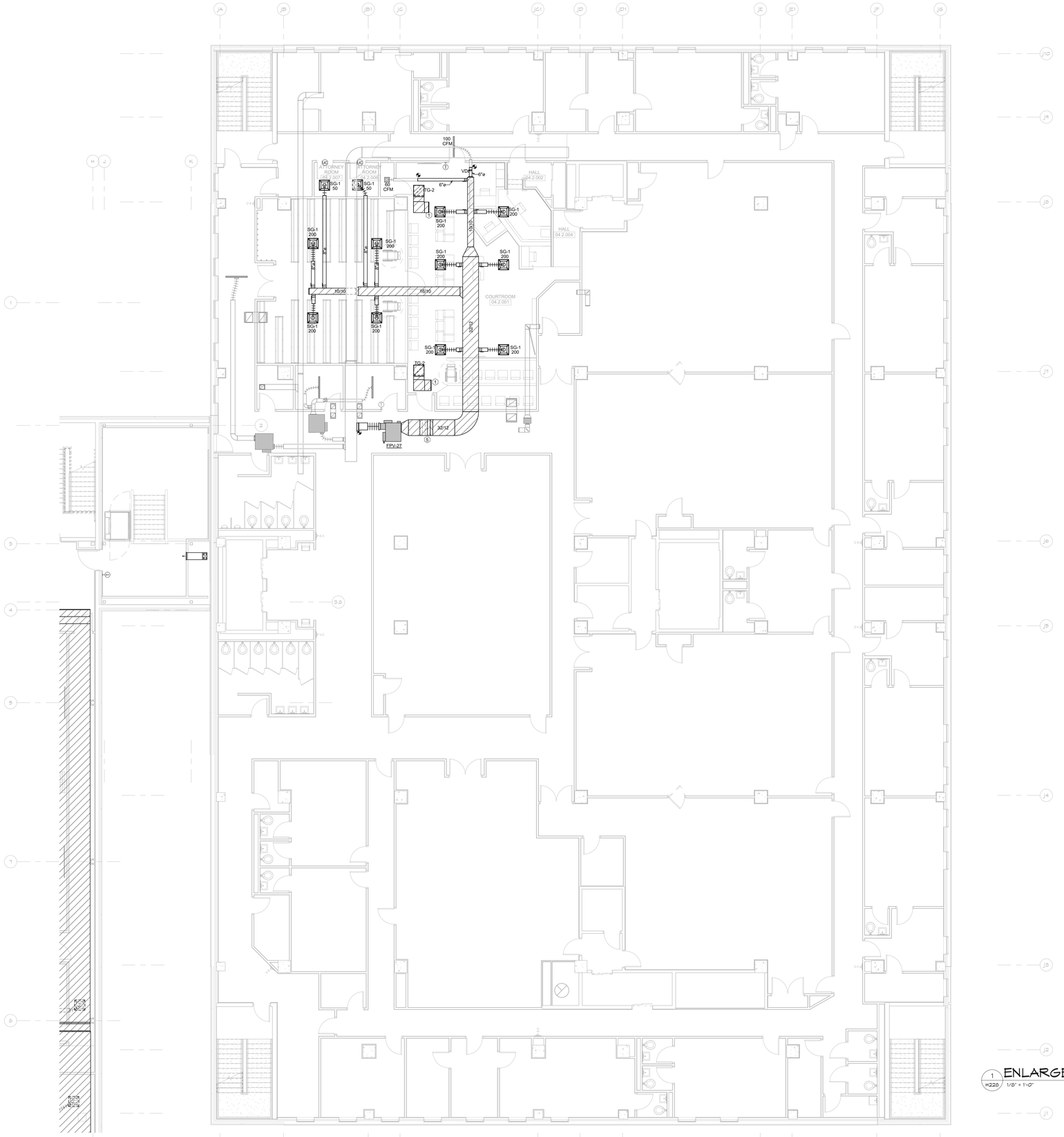
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H227

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KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
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11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H228 ENLARGED DUCTWORK PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 805.00 HVAC DUCTWORK PLAN - JUSTICE CENTER

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

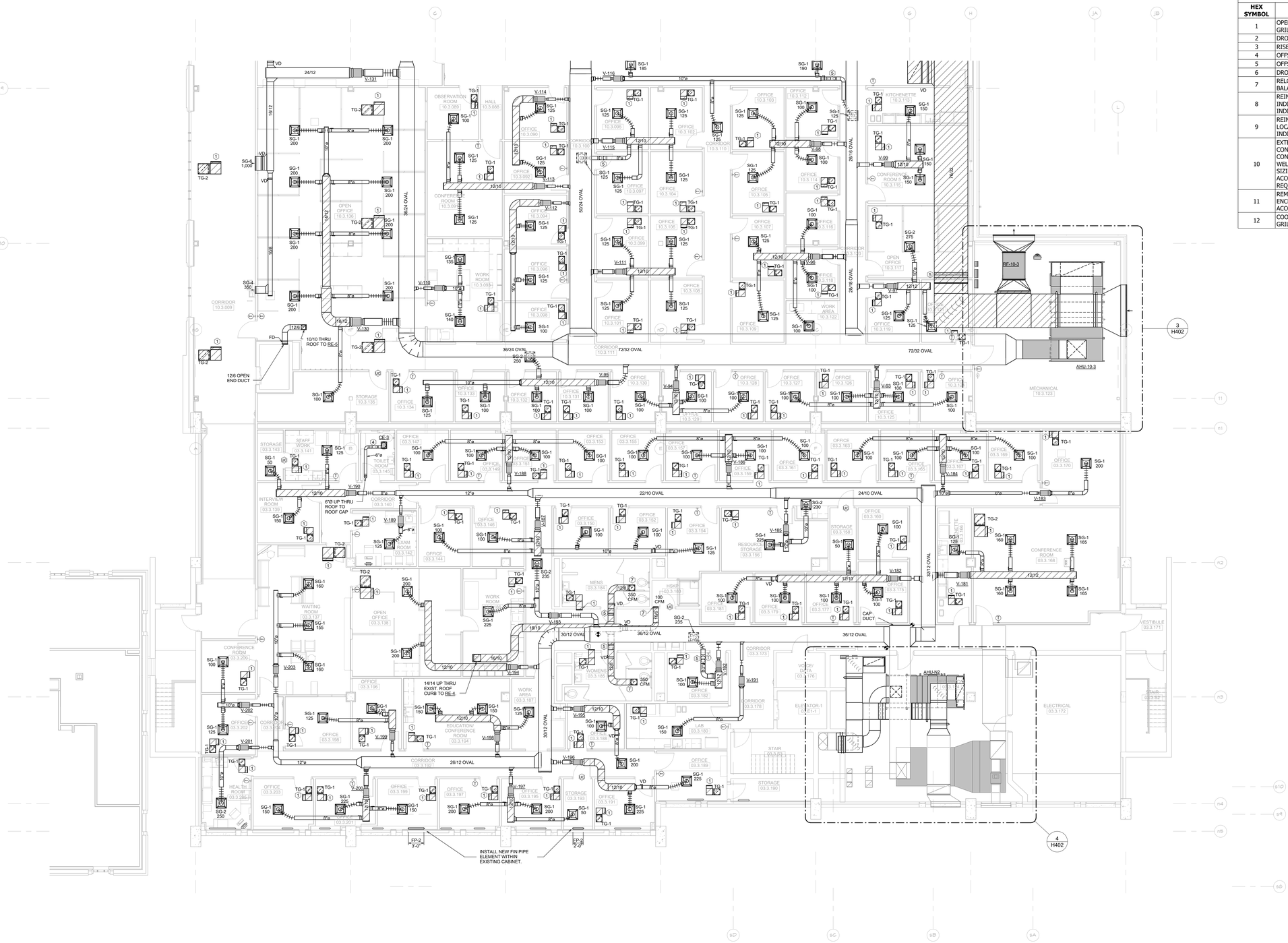
DATE
MARCH 3, 2017

SHEET NO.
H228

J:\Projects\Revit Users Locals\Jamie J\2016\16-0839-C16_JJ.rvt

3/30/2017 12:34:36 PM

KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
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12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.



1 H224 ENLARGED DUCTWORK PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 820.00 HVAC DUCTWORK PLAN - HHS NORTH / OCAC SOUTH

DESIGNED	DRAWN
RA	JJ

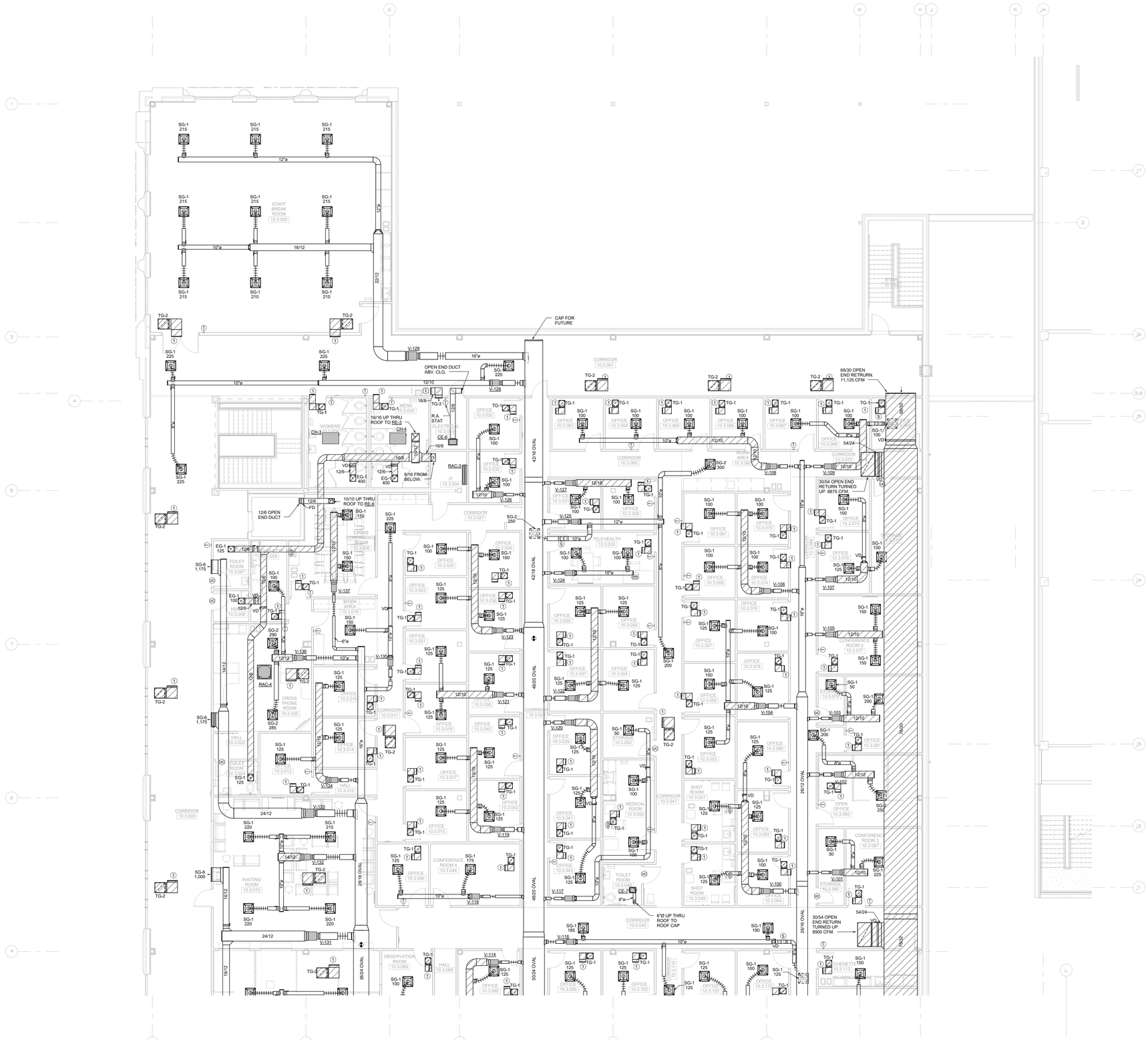
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H229

J:\Projects\Revit Users Locals\Jamie JJ2016\16-083H-C16_JJ.rvt

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KEYED PLAN NOTES

HEX SYMBOL	DESCRIPTION
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
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11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H230 ENLARGED DUCTWORK PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

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1445 McMAHON DRIVE NEENAH, WI 54956
Madison, WI 53562 Milwaukee, WI 53202
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NO. | DATE | REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 820.00 HVAC DUCTWORK PLAN - OCAC NORTH

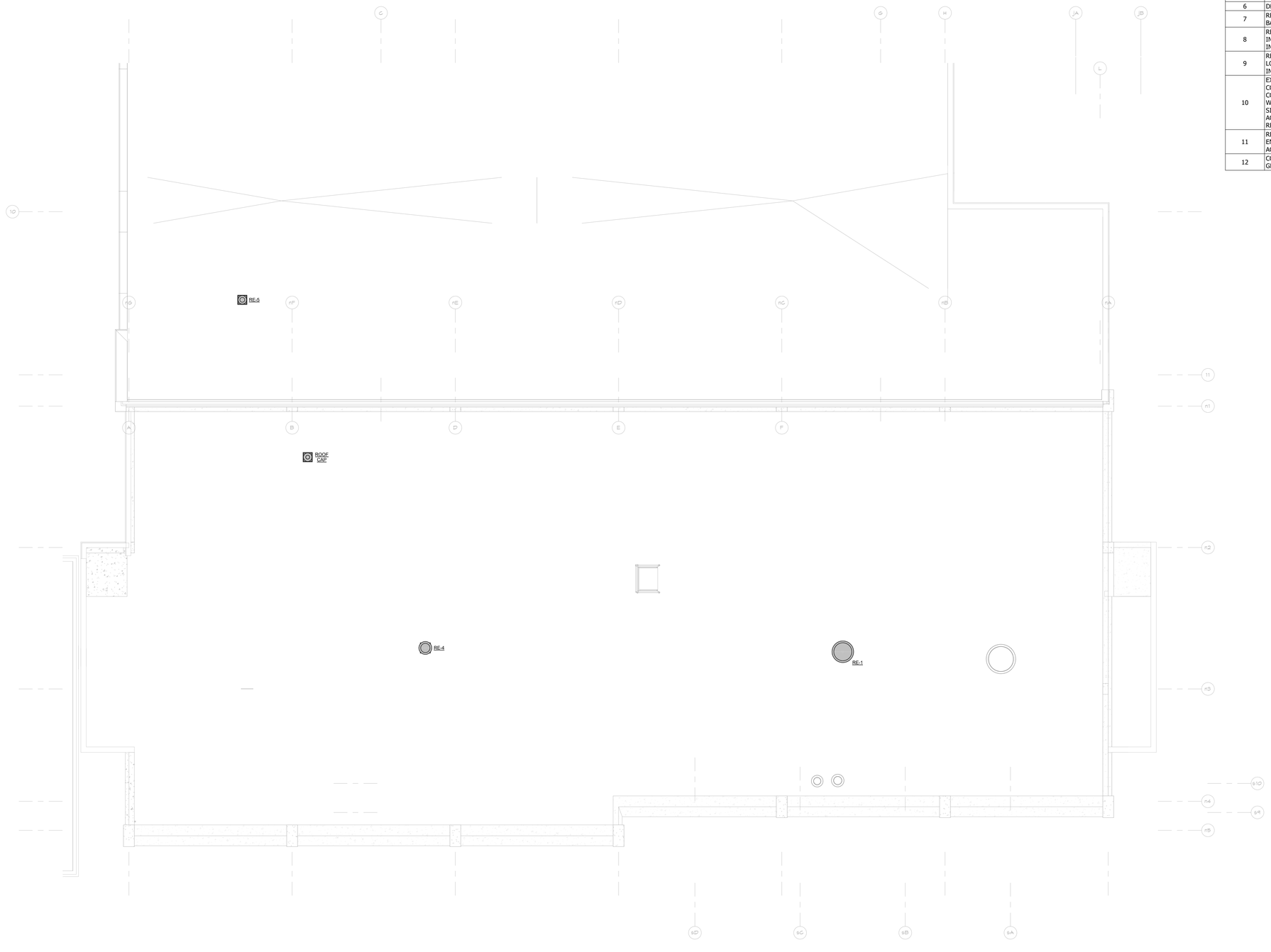
DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160
DATE
MARCH 3, 2017
SHEET NO.
H230

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KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
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11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.



1 H231 ENLARGED DUCTWORK PLAN
1/8" = 1'-0"

NORTH

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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 835.00 HVAC DUCTWORK PLAN - HHS NORTH

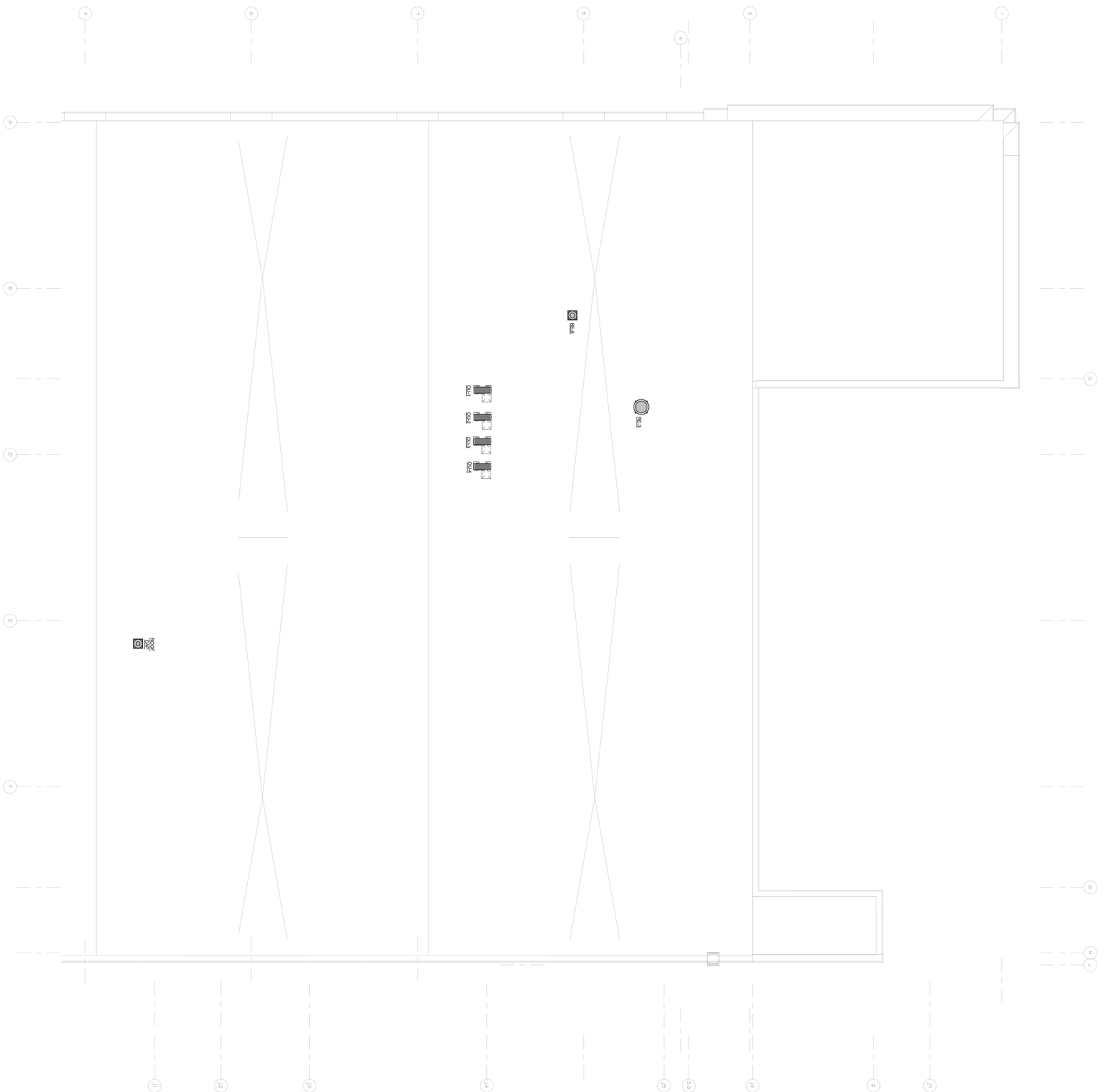
DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H231

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1 ENLARGED DUCTWORK PLAN
H232 / 1/8" = 1'-0"

0' 4' 8' 16' 24'

NORTH

ALTERATION / ADDITION

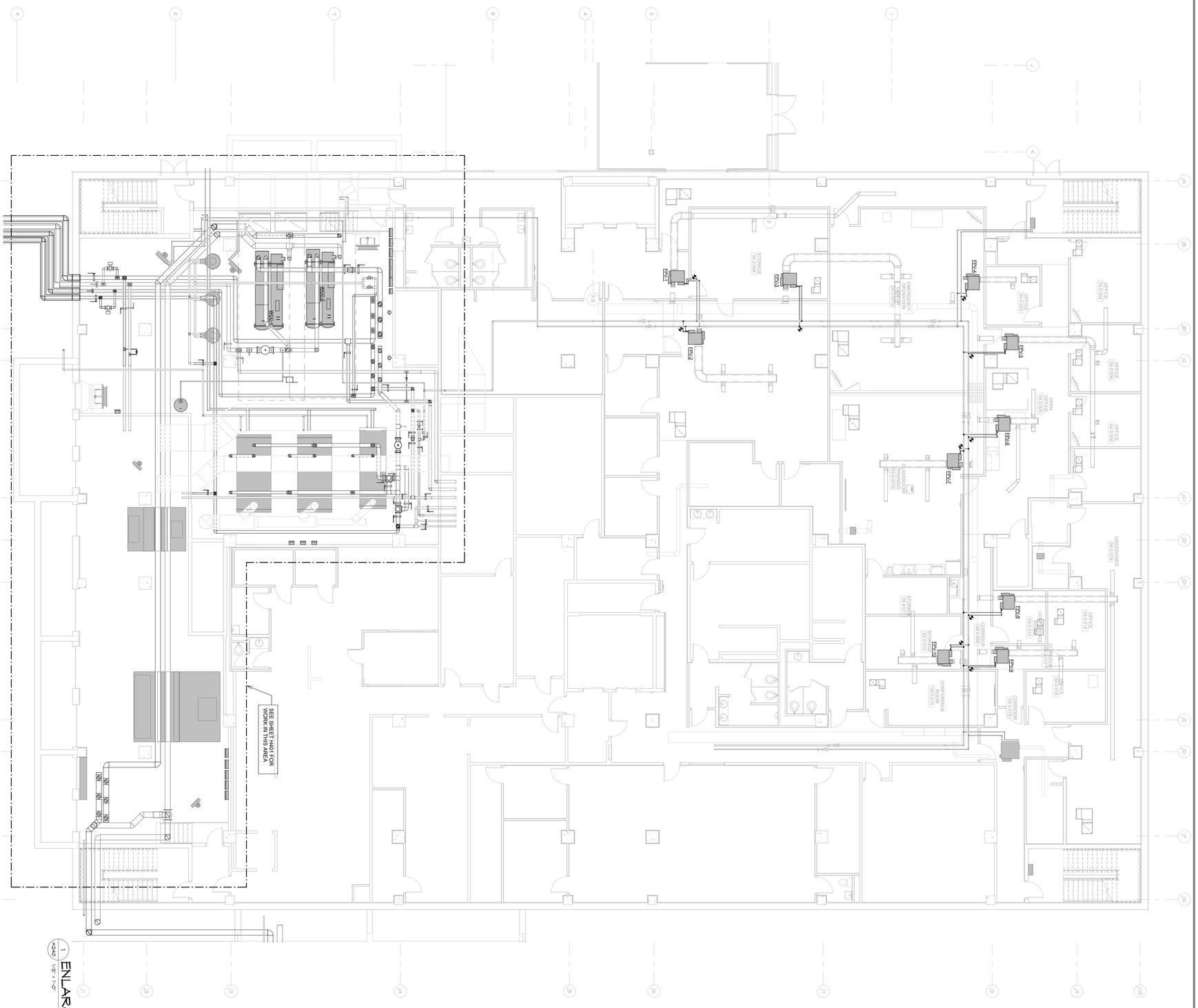
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 835.00 HVAC DUCTWORK PLAN - OCAC NORTH

NO.	DATE	REVISION

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Tel: (920) 751-4200 Fax: (920) 751-4284
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DESIGNED RN | DRAWN JJ
PROJECT NO. 000004160160
DATE MARCH 3, 2017
SHEET NO. H232



1 ENLARGED PIPING PLAN

H240 1/8" = 1'-0"

0' 4' 8' 16' 24' NORTH

ALTERATION / ADDITION

OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 780.00 HVAC PIPING PLAN - JUSTICE CENTER

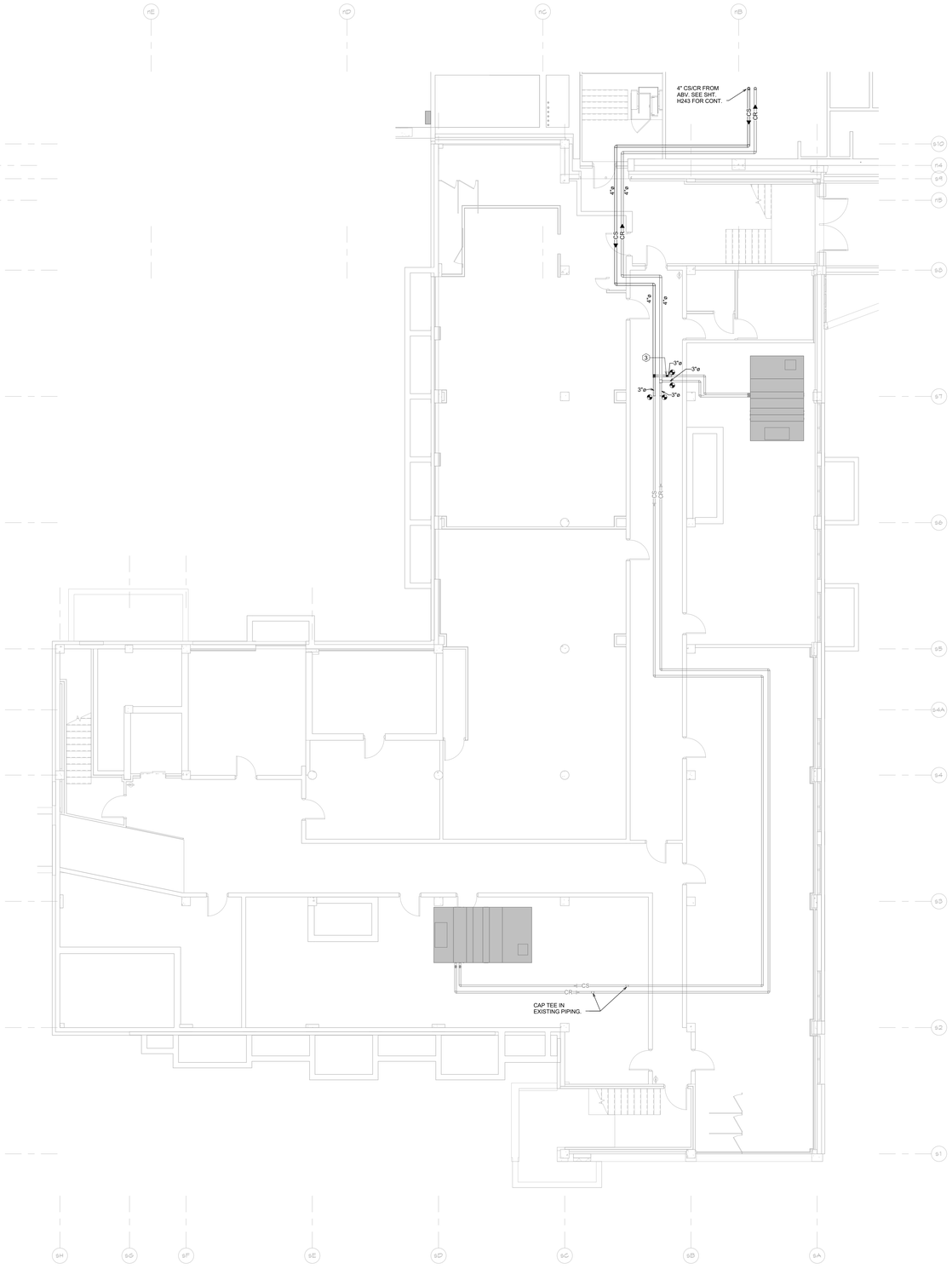
NO.	DATE	REVISION

DESIGNED: RA
DRAWN: JJ
PROJECT NO: 00002.416001160
DATE: MARCH 3, 2017
SHEET NO: H240

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Tel: (920) 751-4200 Fax: (920) 751-4284
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3/30/2017 12:34:57 PM



KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H241 ENLARGED PIPING PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Mailing: P.O. BOX 1025 NEENAH, WI 54957-1025
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 780.00 HVAC PIPING PLAN - HHS SOUTH

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H241

J:\Projects\Revit Users Locals\Jamie J\2016\16-0839-C16_JJ.rvt

3/30/2017 12:35:04 PM



1 H242 ENLARGED PIPING PLAN
1/8" = 1'-0"

NORTH
0' 4' 8' 16' 24'

KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
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11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

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NO.	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC PIPING PLAN - CAB

DESIGNED	DRAWN
RA	JJ

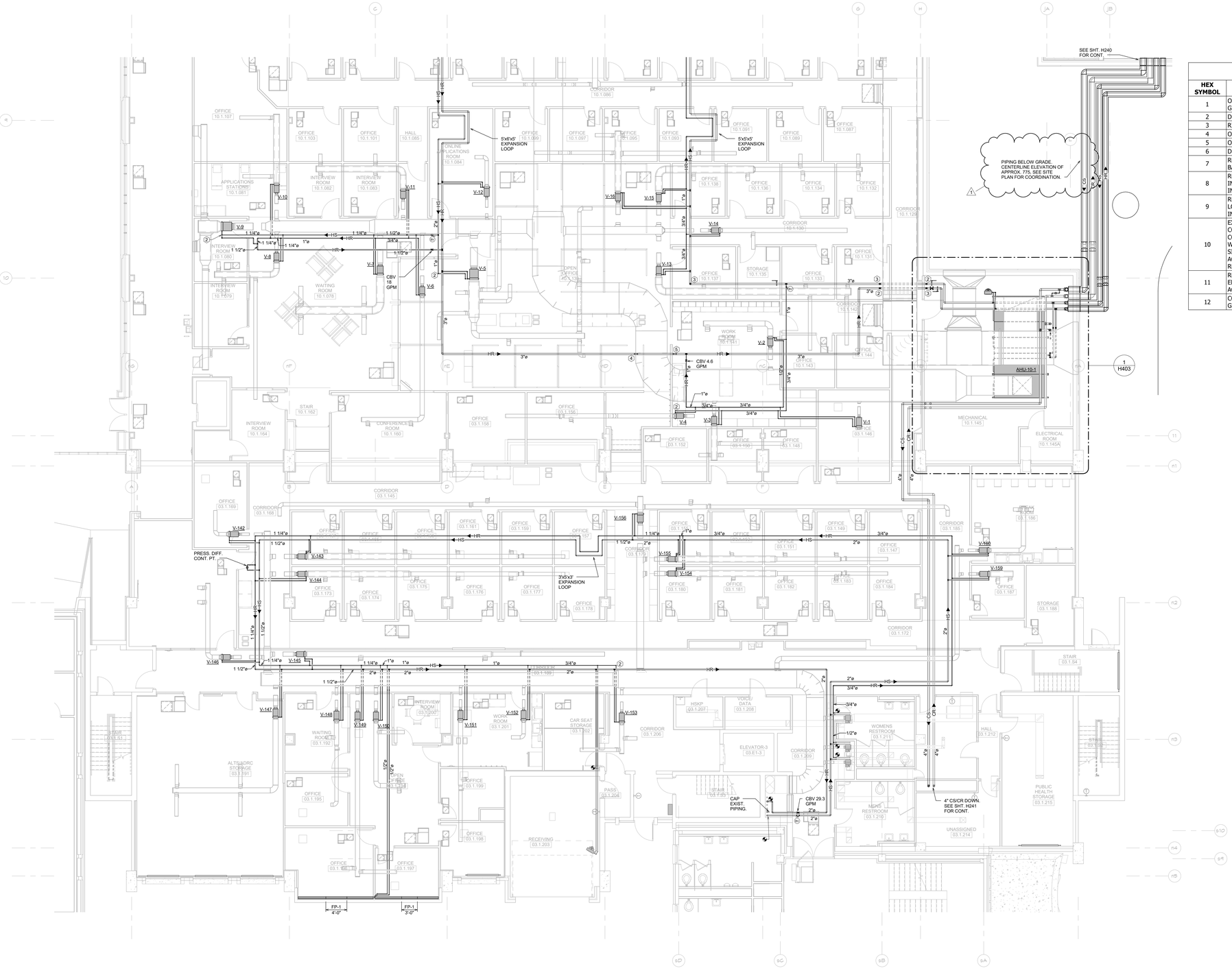
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H242

J:\Projects\Revit Users Locals\Jamie J\2016\16-0839-C16_JJ.rvt

3/30/2017 12:35:16 PM



KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
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11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H243 ENLARGED PIPING PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

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1445 McMAHON DRIVE NEENAH, WI 54956
Madison 1-800-627-4665 Milwaukee 1-800-236-4665
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NO.	DATE	REVISION
1	03/31/2017	ADDENDUM #1

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC PIPING PLAN - HHS NORTH / OCAC SOUTH

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H243

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3/30/2017 12:35:29 PM

RADIANT FLOOR SUPPLY AND RETURN MANIFOLDS LOCATED ABOVE CEILING.

RT-1

RT-2

RUN REFR. PIPING UP THRU ROOF WITHIN PIPE CURB ASSEMBLY. EXTEND TO OU-1 PER MANUF. RECOMM.

3/4" LOOP SEAL EXTEND TO HUB DRAIN WITHIN 10'-0". HUB DRAIN BY PLBR.

PRESS. DIFF. CONT. PT.

CBV 27.7 GPM

CBV 12.2 GPM

CBV 16.1 GPM

RAC-1

CH-1

CH-2

CH-5

CH-6

V-20 V-21 V-22 V-23 V-24 V-25 V-26 V-27 V-28 V-29 V-30 V-31 V-32 V-33 V-34 V-35 V-36 V-37 V-38 V-39 V-40 V-41 V-42 V-43 V-44 V-45 V-46 V-47 V-48 V-49 V-50 V-51 V-52 V-53 V-54 V-55

1 ENLARGED PIPING PLAN
H244 1/8" = 1'-0"

0' 4' 8' 16' 24'

NORTH

KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Madison Office: 7601 Ganser Way, Madison, WI 53719
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC PIPING PLAN - OCAC NORTH

DESIGNED	DRAWN
RA	JJ

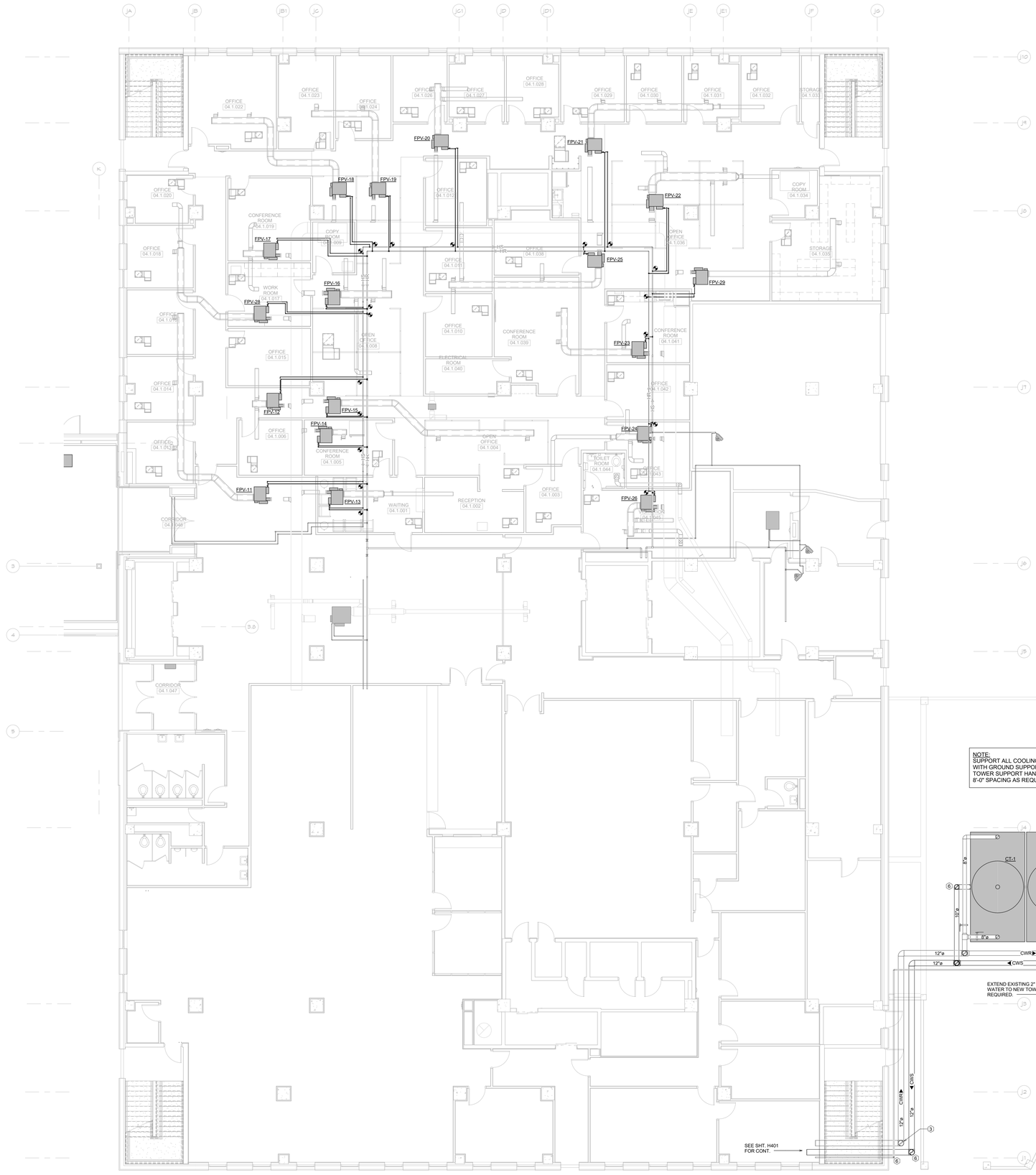
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H244

J:\Projects\Revit Users Locals\Jamie J\2016\16-083H-C16_JJ.rvt

3/30/2017 12:35:37 PM



1 ENLARGED PIPING PLAN
H245 1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC PIPING PLAN - JUSTICE CENTER

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
G0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H245

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KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H246 ENLARGED PIPING PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 805.00 HVAC PIPING PLAN - HHS NORTH / OCAC SOUTH

DESIGNED	DRAWN
RA	JJ

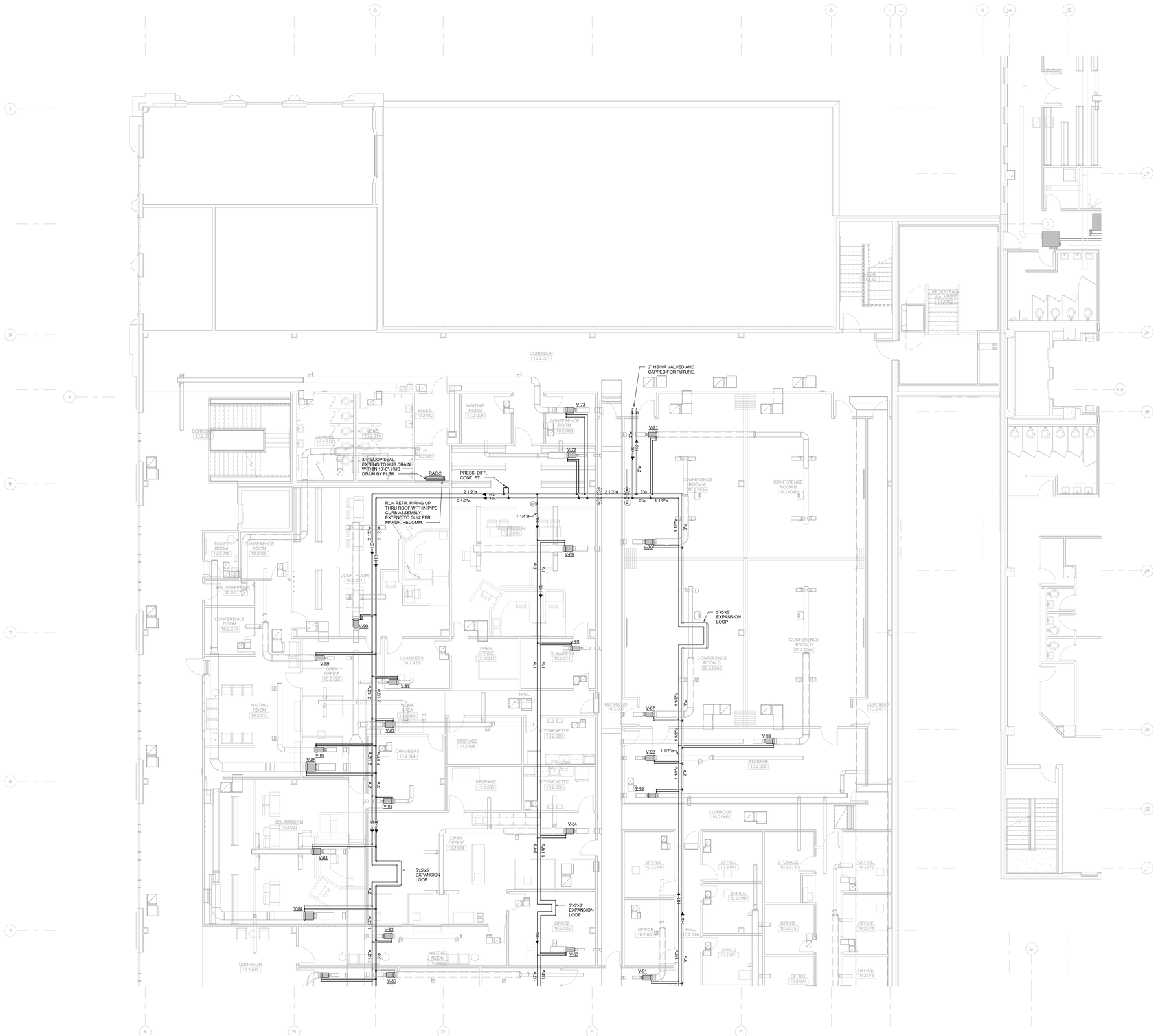
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H246

J:\Projects\Revit Users Locals\Jamie J\20161604-0839-C16_JJ.rvt

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KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H247 ENLARGED PIPING PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 805.00 HVAC PIPING PLAN - OCAC NORTH

DESIGNED	DRAWN
RA	JJ

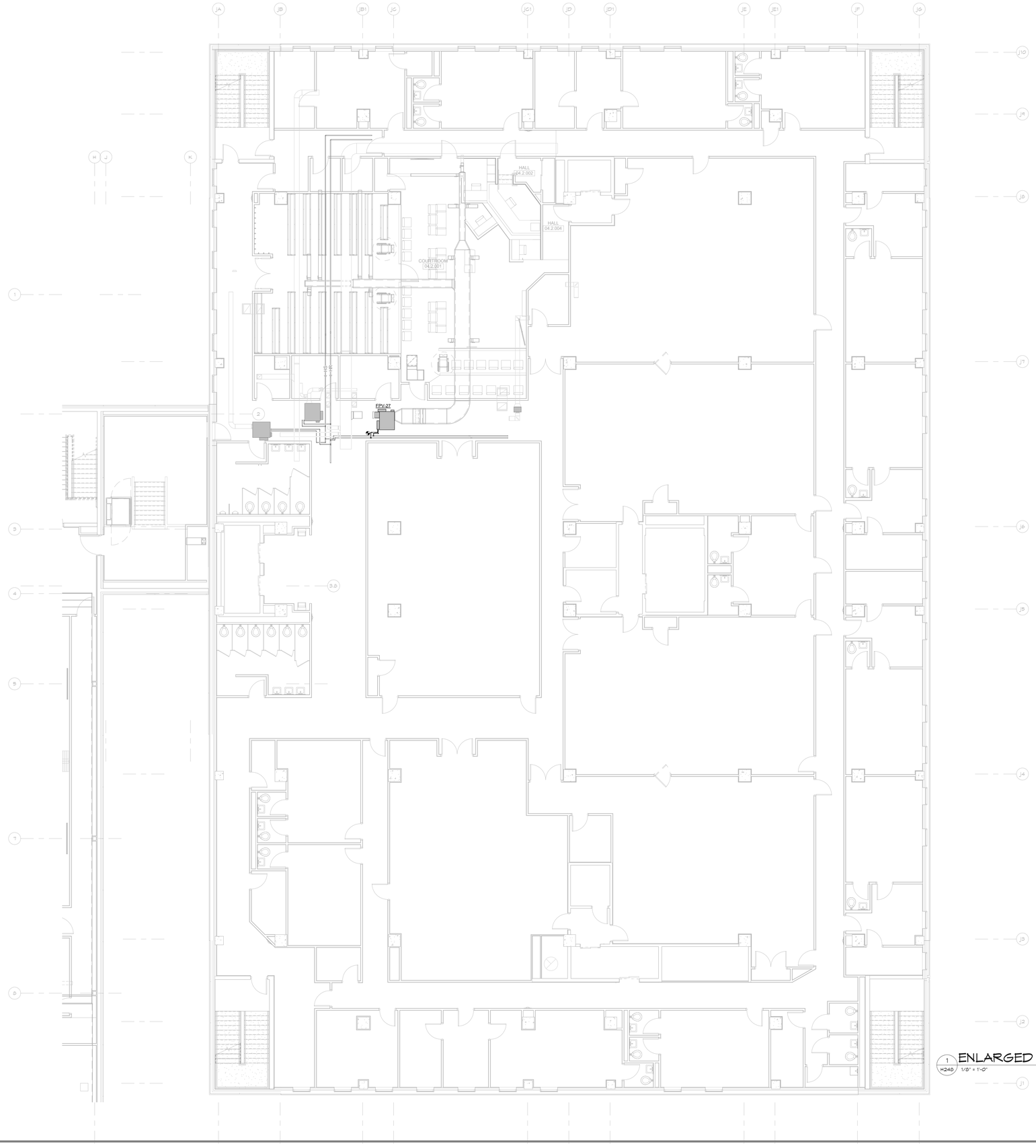
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H247

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KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H248 ENLARGED PIPING PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

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1445 McMAHON DRIVE NEENAH, WI 54956
Madison, WI 53593 Milwaukee, WI 53202
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 805.00 HVAC PIPING PLAN - JUSTICE CENTER

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H248

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3/30/2017 12:36:21 PM

KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

1 H249 ENLARGED PIPING PLAN

1/8" = 1'-0"

NORTH

0' 4' 8' 16' 24'

McMAHON ENGINEERS ARCHITECTS
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Madison (608) 662-1600 Milwaukee (414) 431-1420
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 820.00 HVAC PIPING PLAN - HHS NORTH / OCAC SOUTH

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

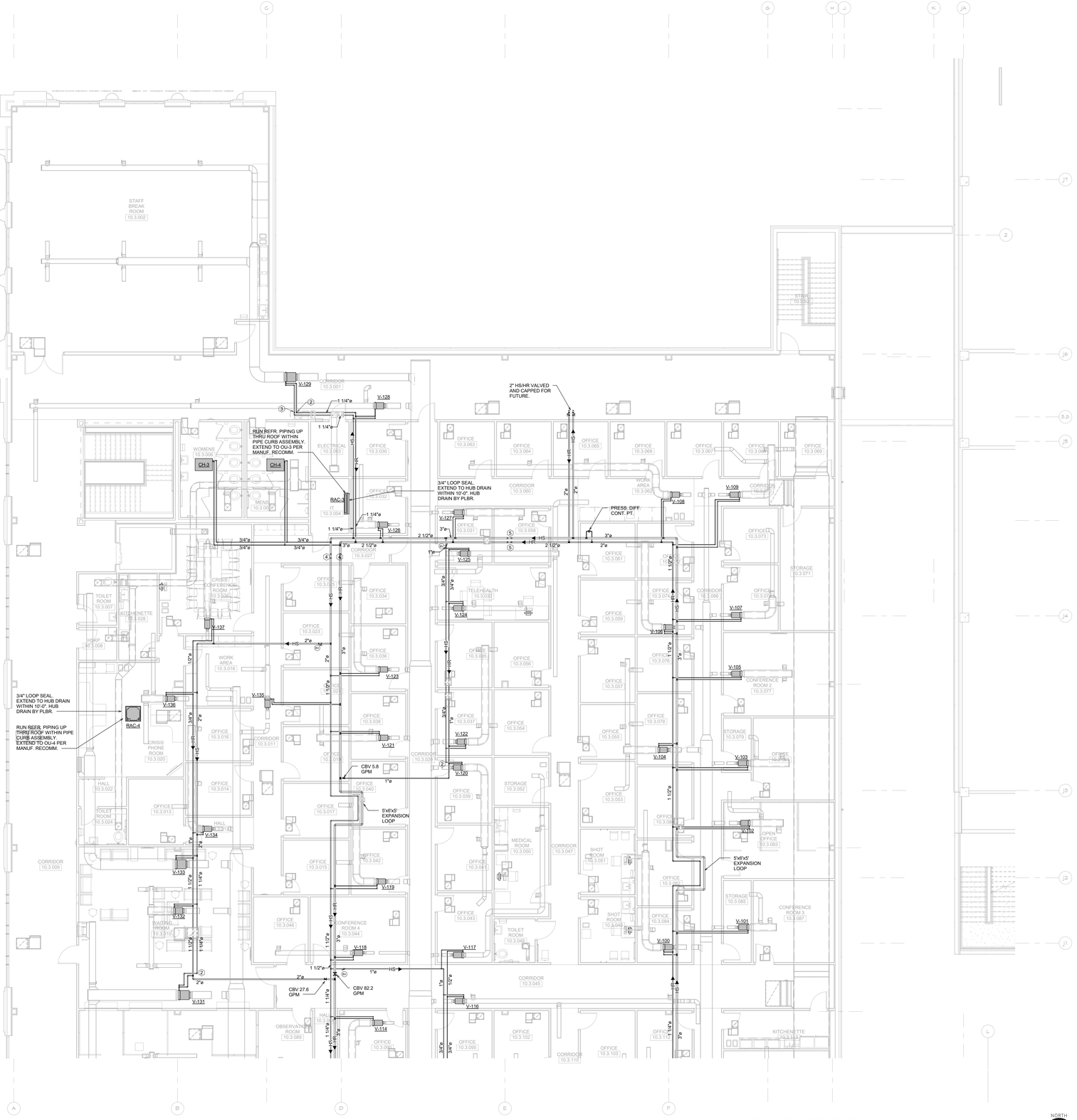
DATE
MARCH 3, 2017

SHEET NO.
H249

J:\Projects\Revit Users Locals\Jamie JJ20161616-0834-C16_JJ.rvt

3/30/2017 12:36:29 PM

KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
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11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.


2" HS/HR VALVED AND CAPPED FOR FUTURE.
RUN REFR. PIPING UP THRU ROOF WITHIN PIPE CURB ASSEMBLY. EXTEND TO OU-3 PER MANUF. RECOMM.
3/4" LOOP SEAL EXTEND TO HUB DRAIN WITHIN 10'-0". HUB DRAIN BY PLBR.
PRESS. DIFF. CONT. PT.
3/4" LOOP SEAL EXTEND TO HUB DRAIN WITHIN 10'-0". HUB DRAIN BY PLBR.
RUN REFR. PIPING UP THRU ROOF WITHIN PIPE CURB ASSEMBLY. EXTEND TO OU-4 PER MANUF. RECOMM.
CBV 5.8 GPM
CBV 27.6 GPM
CBV 82.2 GPM
5'x6'x5' EXPANSION LOOP
5'x6'x5' EXPANSION LOOP
RAC-3
RAC-4
CH-3
CH-4
V-100
V-101
V-102
V-103
V-104
V-105
V-106
V-107
V-108
V-109
V-110
V-111
V-112
V-113
V-114
V-115
V-116
V-117
V-118
V-119
V-120
V-121
V-122
V-123
V-124
V-125
V-126
V-127
V-128
V-129
V-130
V-131
V-132
V-133
V-134
V-135
V-136
V-137
STAFF BREAK ROOM 10.3.002
CORRIDOR 10.3.001
WOMENS 10.3.006
MENS 10.3.005
ELECTRICAL 10.3.063
OFFICE 10.3.030
OFFICE 10.3.004
OFFICE 10.3.031
CORRIDOR 10.3.027
OFFICE 10.3.060
CORRIDOR 10.3.060
OFFICE 10.3.058
OFFICE 10.3.063
OFFICE 10.3.064
OFFICE 10.3.065
OFFICE 10.3.066
OFFICE 10.3.067
OFFICE 10.3.068
OFFICE 10.3.069
WORK AREA 10.3.062
CORRIDOR 10.3.070
OFFICE 10.3.073
OFFICE 10.3.061
STORAGE 10.3.071
TELEHEALTH 10.3.035
OFFICE 10.3.074
CORRIDOR 10.3.086
OFFICE 10.3.072
OFFICE 10.3.069
OFFICE 10.3.076
OFFICE 10.3.056
OFFICE 10.3.057
CONFERENCE ROOM 2 10.3.077
OFFICE 10.3.078
STORAGE 10.3.079
OFFICE 10.3.080
OFFICE 10.3.053
OFFICE 10.3.081
OPEN OFFICE 10.3.083
OFFICE 10.3.082
STORAGE 10.3.085
CONFERENCE ROOM 3 10.3.087
OFFICE 10.3.084
SHOT ROOM 10.3.048
SHOT ROOM 10.3.051
TOILET ROOM 10.3.049
MEDICAL ROOM 10.3.050
CORRIDOR 10.3.047
OFFICE 10.3.043
OFFICE 10.3.044
CORRIDOR 10.3.045
OFFICE 10.3.102
CORRIDOR 10.3.110
OFFICE 10.3.103
OFFICE 10.3.112
KITCHENETTE 10.3.113
OFFICE 10.3.095
OFFICE 10.3.096
OBSERVATION ROOM 10.3.089
HALL 10.3.088
OFFICE 10.3.046
OFFICE 10.3.042
OFFICE 10.3.015
OFFICE 10.3.017
OFFICE 10.3.040
OFFICE 10.3.038
OFFICE 10.3.037
OFFICE 10.3.054
OFFICE 10.3.039
STORAGE 10.3.052
CORRIDOR 10.3.025
OFFICE 10.3.018
OFFICE 10.3.035
OFFICE 10.3.036
OFFICE 10.3.023
OFFICE 10.3.034
CORRIDOR 10.3.026
TOILET ROOM 10.3.007
KITCHENETTE 10.3.028
HSKP 10.3.008
CRISIS CONFERENCE ROOM 10.3.004
WORK AREA 10.3.018
CRISIS PHONE ROOM 10.3.020
OFFICE 10.3.016
CORRIDOR 10.3.011
HALL 10.3.022
OFFICE 10.3.014
OFFICE 10.3.013
TOILET ROOM 10.3.024
HALL 10.3.041
CORRIDOR 10.3.009
WAITING ROOM 10.3.010
OFFICE 10.3.046
CONFERENCE ROOM 4 10.3.044
TOILET ROOM 10.3.048
CORRIDOR 10.3.045

1 H260 OCAC/HHS NORTH PLENUM PLANS - LEVEL 1
1/16" = 1'-0"

0 8 16 32 48



SHADED AREA INDICATES THE AREA WHERE THE SPACE BETWEEN THE STRUCTURE ABOVE IS USED AS A RETURN AIR PLENUM. THIS SHEET IS FOR REFERENCE ONLY. VERIFY CONDITIONS ON SITE PRIOR TO INSTALLATION

H260

DATE: MARCH 2, 2017
SHEET NO:

00002-416001/60

PROJECT NO:

DESIGNED: RA
DRAWN: JJ

ALTERATION / ADDITION

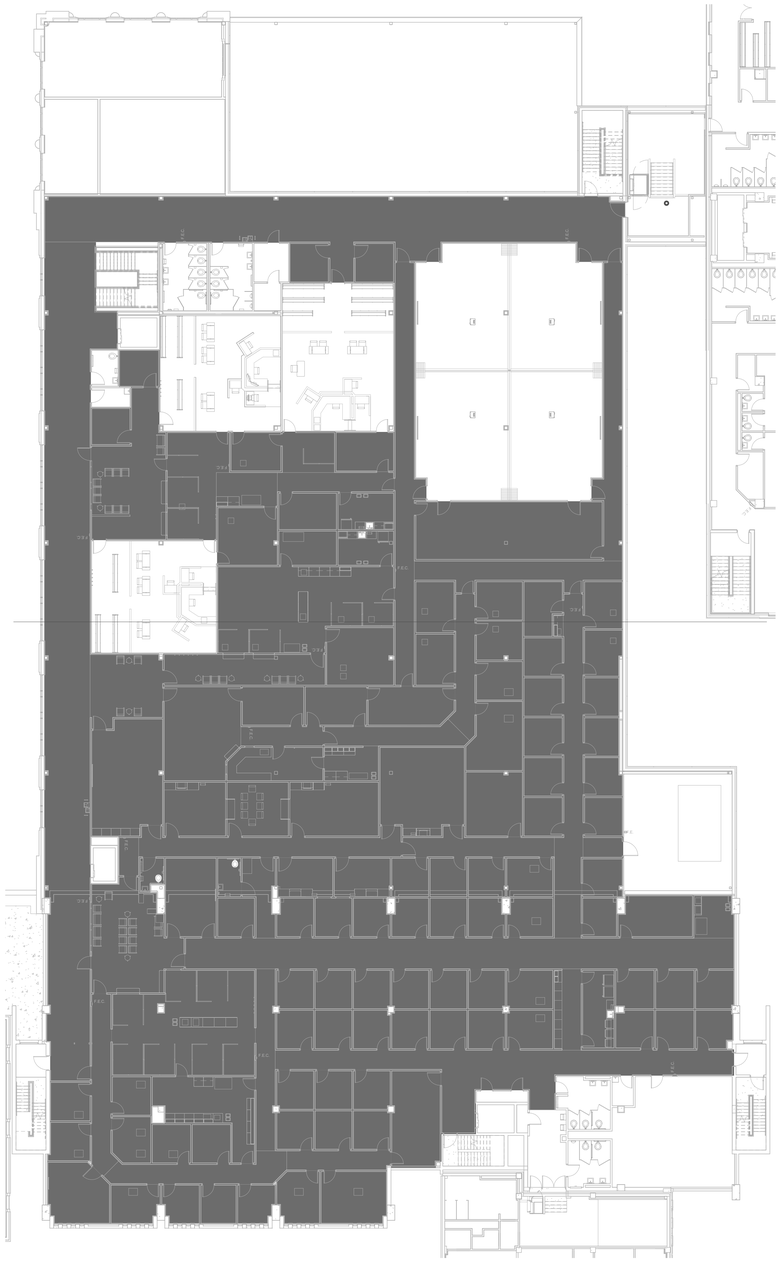
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 790.00 HVAC PLENUM PLAN - OCAC/HHS NORTH

NO.	DATE	REVISION

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ENGINEERS ARCHITECTS
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Mailing: P.O.BOX 1025 NEENAH, WI 54957-1025
Tel: (920) 751-4200 Fax: (920) 751-4284
www.mcmgrp.com

3/30/2017 12:36:53 PM



SHADED AREA INDICATES THE AREA WHERE THE SPACE BETWEEN THE CEILING AND THE STRUCTURE ABOVE IS USED AS A RETURN AIR PLENUM. THIS SHEET IS FOR REFERENCE ONLY. VERIFY CONDITIONS ON SITE PRIOR TO INSTALLATION

1 H261 OCAC/HHS NORTH PLENUM PLANS - LEVEL 2

1/16" = 1'-0"

NORTH

0' 8' 16' 32' 48'

McMAHON ENGINEERS ARCHITECTS
1445 McMAHON DRIVE NEENAH, WI 54956
Madison, WI 53593 Milwaukee, WI 53202
Tel: (920) 751-4200 Fax: (920) 751-4284
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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 805.00 HVAC PLENUM PLAN - OCAC/HHS NORTH

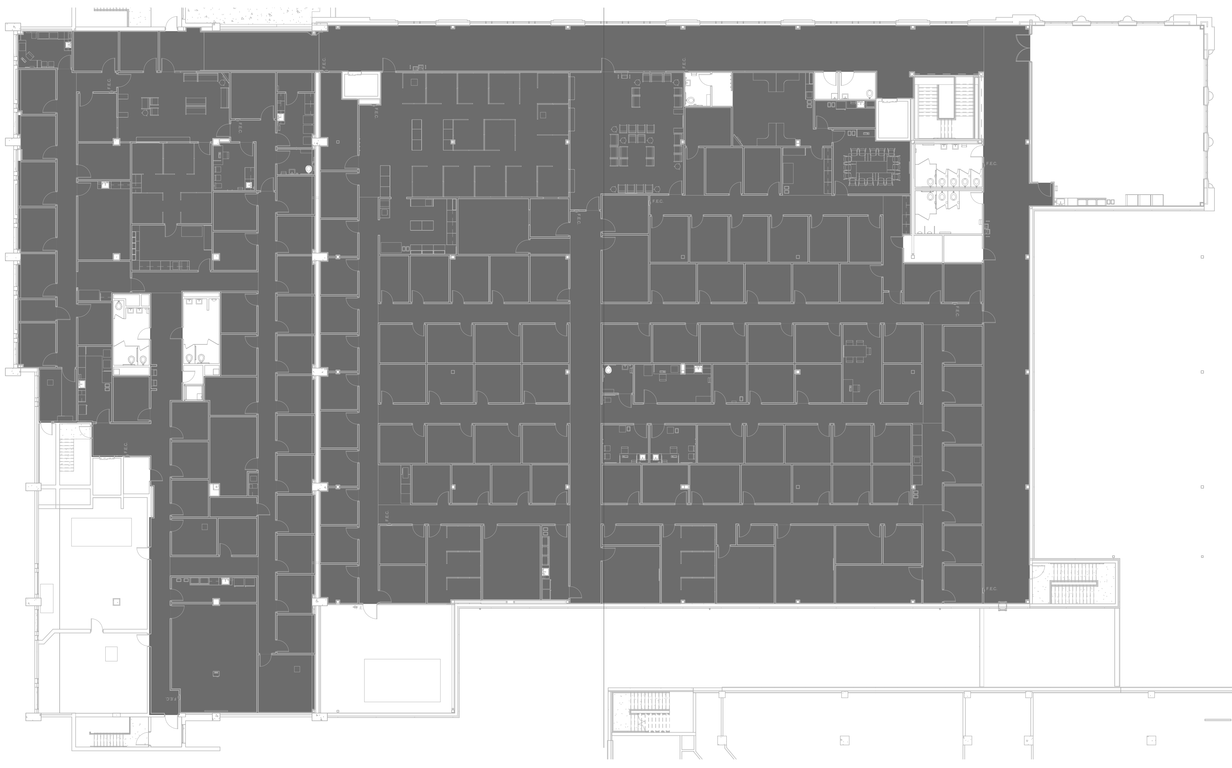
DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H261

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1 H262 OCAC/HHS NORTH PLENUM PLANS - LEVEL 3
1/16" = 1'-0"

0 8' 16' 32' 48'

NORTH

SHADED AREA INDICATES THE AREA WHERE THE ENTIRE CEILING SYSTEM IS REMOVED TO ACCESS THE PLENUM BELOW. THE AREA CAN BE USED AS A RETURN AIR PLENUM. THIS SHEET IS FOR REFERENCE ONLY. VERIFY CONDITIONS ON SITE PRIOR TO INSTALLATION

ALTERATION / ADDITION

OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
LEVEL 820.00 HVAC PLENUM PLAN - OCAC/HHS NORTH

NO.	DATE	REVISION

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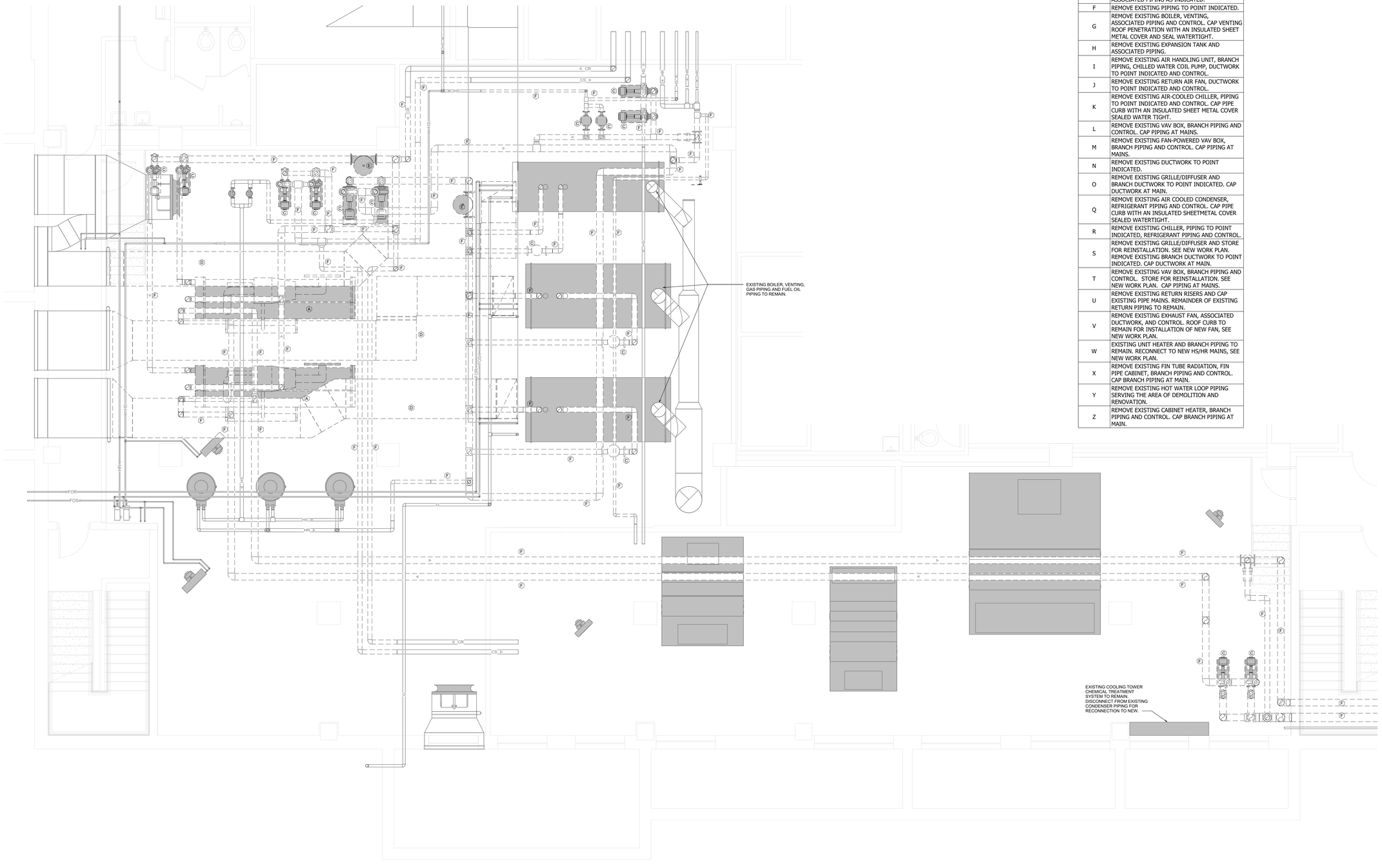
McMAHON ENGINEERS ARCHITECTS
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DRAWN JJ
PROJECT NO. 016003-61600169
DATE MARCH 3, 2017
SHEET NO. H262

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DEMOLITION SYMBOL	DESCRIPTION
———————	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

DEMOLITION KEYED NOTES	
HEX SYMBOL	**DESCRIPTION**
A	REMOVE EXISTING CHILLER, CHILLED WATER PIPING TO POINT INDICATED, CONDENSER WATER PIPING, REFRIGERANT RELIEF PIPING AND CONTROL.
AA	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION. SEE NEW WORK PLANS.
B	REMOVE EXISTING COOLING TOWER, ASSOCIATED CONDENSER WATER PIPING AND CONTROL.
C	REMOVE EXISTING PUMP, PIPING TO POINT INDICATED AND CONTROL.
D	REMOVE EXISTING COMBUSTION AIR DUCTWORK TO POINT INDICATED.
E	REMOVE EXISTING AIR SEPARATOR AND ASSOCIATED PIPING AS INDICATED.
F	REMOVE EXISTING PIPING TO POINT INDICATED.
G	REMOVE EXISTING BOILER, VENTING, ASSOCIATED PIPING AND CONTROL. CAP VENTING ROOF PENETRATION WITH AN INSULATED SHEET METAL COVER AND SEAL WATERTIGHT.
H	REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
I	REMOVE EXISTING AIR HANDLING UNIT, BRANCH PIPING, CHILLED WATER COIL PUMP, DUCTWORK TO POINT INDICATED AND CONTROL.
J	REMOVE EXISTING RETURN AIR FAN, DUCTWORK TO POINT INDICATED AND CONTROL.
K	REMOVE EXISTING AIR-COOLED CHILLER, PIPING TO POINT INDICATED AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEET METAL COVER SEALED WATER TIGHT.
L	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
M	REMOVE EXISTING FAN-POWERED VAV BOX, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
N	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
O	REMOVE EXISTING GRILLE/DIFFUSER AND BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
Q	REMOVE EXISTING AIR COOLED CONDENSER, REFRIGERANT PIPING AND CONTROL. CAP PIPE CURB WITH AN INSULATED SHEETMETAL COVER SEALED WATERTIGHT.
R	REMOVE EXISTING CHILLER, PIPING TO POINT INDICATED, REFRIGERANT PIPING AND CONTROL.
S	REMOVE EXISTING GRILLE/DIFFUSER AND STORE FOR REINSTALLATION. SEE NEW WORK PLAN. REMOVE EXISTING BRANCH DUCTWORK TO POINT INDICATED. CAP DUCTWORK AT MAIN.
T	REMOVE EXISTING VAV BOX, BRANCH PIPING AND CONTROL. STORE FOR REINSTALLATION. SEE NEW WORK PLAN. CAP PIPING AT MAINS.
U	REMOVE EXISTING RETURN RISERS AND CAP EXISTING PIPE MAINS. REMAINDER OF EXISTING RETURN PIPING TO REMAIN.
V	REMOVE EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK, AND CONTROL. ROOF CURB TO REMAIN FOR INSTALLATION OF NEW FAN, SEE NEW WORK PLAN.
W	EXISTING UNIT HEATER AND BRANCH PIPING TO REMAIN. RECONNECT TO NEW HS/HR MAINS, SEE NEW WORK PLAN.
X	REMOVE EXISTING FIN TUBE RADIATION, FIN PIPE CABINET, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.
Y	REMOVE EXISTING HOT WATER LOOP PIPING SERVING THE AREA OF DEMOLITION AND RENOVATION.
Z	REMOVE EXISTING CABINET HEATER, BRANCH PIPING AND CONTROL. CAP BRANCH PIPING AT MAIN.



1 H400 BOILER ROOM DEMOLITION PLAN
1/4" = 1'-0"

NORTH

0' 2' 4' 8' 12'

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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
JUSTICE CENTER BOILER ROOM DEMOLITION

DESIGNED	DRAWN
RA	JJ

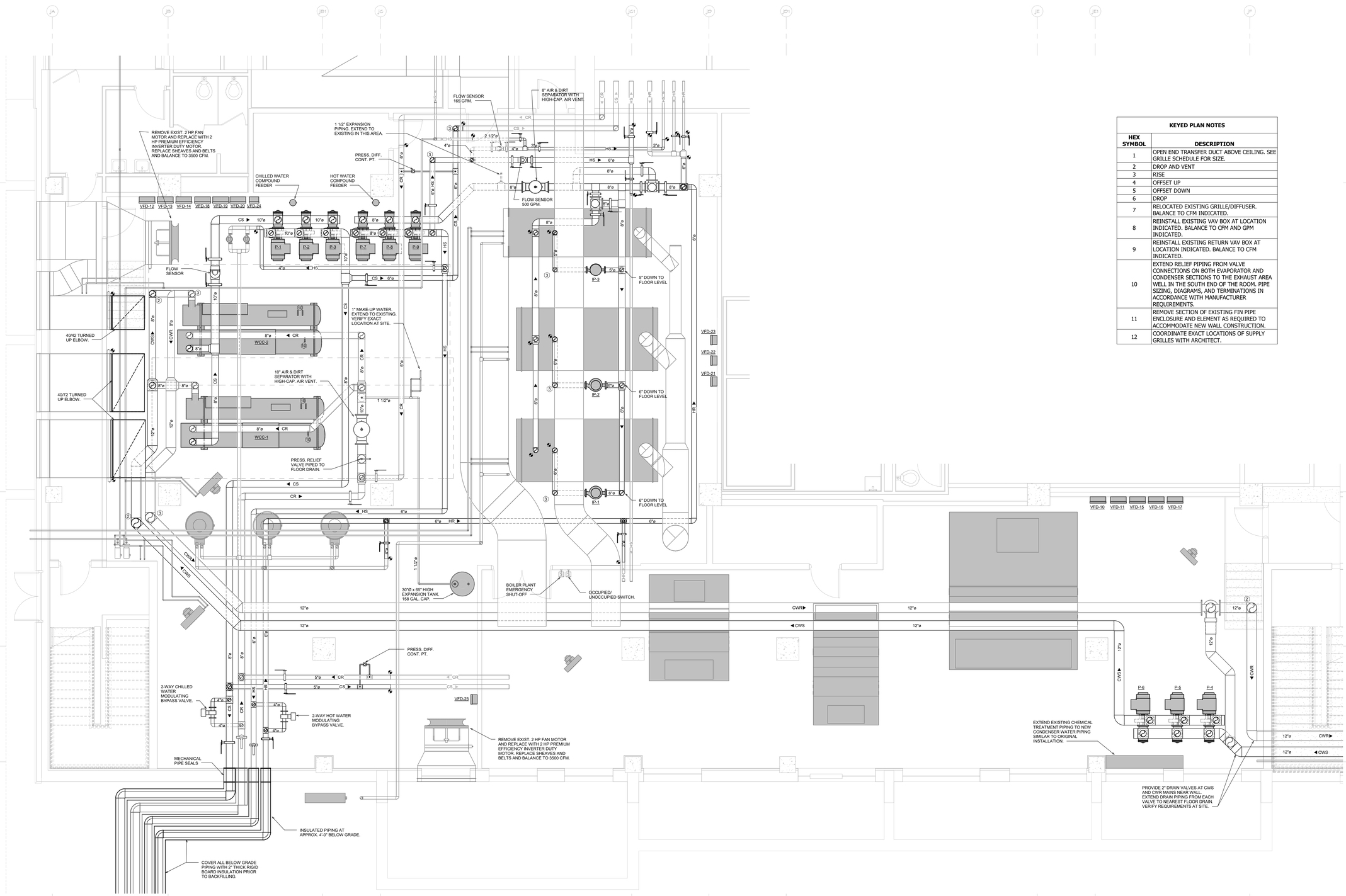
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H400

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1 H401 BOILER ROOM PLAN

1/4" = 1'-0"

NORTH

0' 2' 4' 8' 12'

KEYED PLAN NOTES	
HEX SYMBOL	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING. SEE GRILLE SCHEDULE FOR SIZE.
2	DROP AND VENT
3	RISE
4	OFFSET UP
5	OFFSET DOWN
6	DROP
7	RELOCATED EXISTING GRILLE/DIFFUSER. BALANCE TO CFM INDICATED.
8	REINSTALL EXISTING VAV BOX AT LOCATION INDICATED. BALANCE TO CFM AND GPM INDICATED.
9	REINSTALL EXISTING RETURN VAV BOX AT LOCATION INDICATED. BALANCE TO CFM INDICATED.
10	EXTEND RELIEF PIPING FROM VALVE CONNECTIONS ON BOTH EVAPORATOR AND CONDENSER SECTIONS TO THE EXHAUST AREA WELL IN THE SOUTH END OF THE ROOM. PIPE SIZING, DIAGRAMS, AND TERMINATIONS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
11	REMOVE SECTION OF EXISTING FIN PIPE ENCLOSURE AND ELEMENT AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
12	COORDINATE EXACT LOCATIONS OF SUPPLY GRILLES WITH ARCHITECT.

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ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
JUSTICE CENTER BOILER ROOM PLAN

DESIGNED	DRAWN
RA	JJ

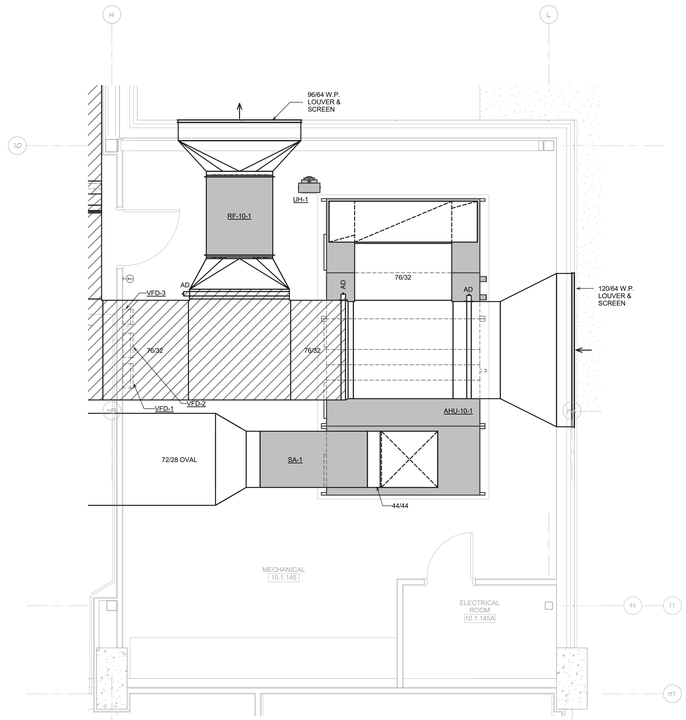
PROJECT NO.
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DATE
MARCH 3, 2017

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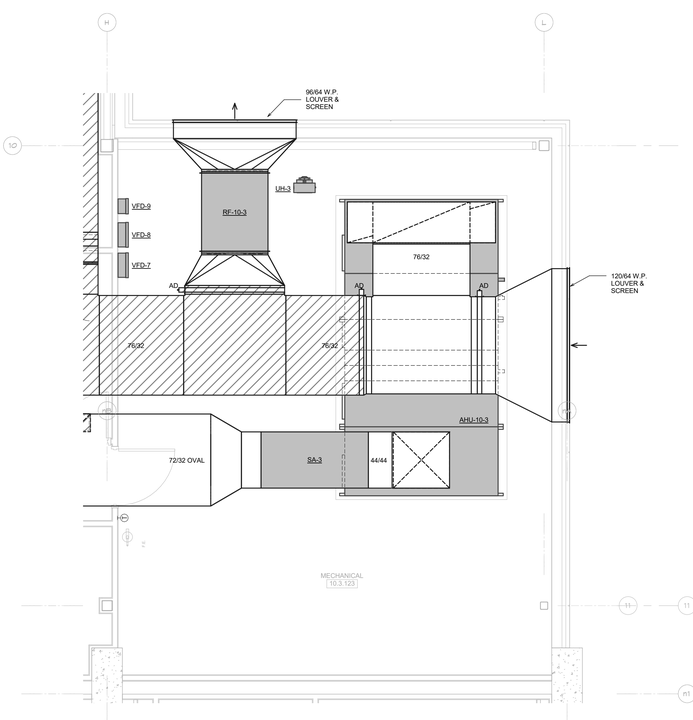
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1 H402 LEVEL 790.00 MECH. ROOM DUCTWORK PLAN
1/4" = 1'-0"

NORTH

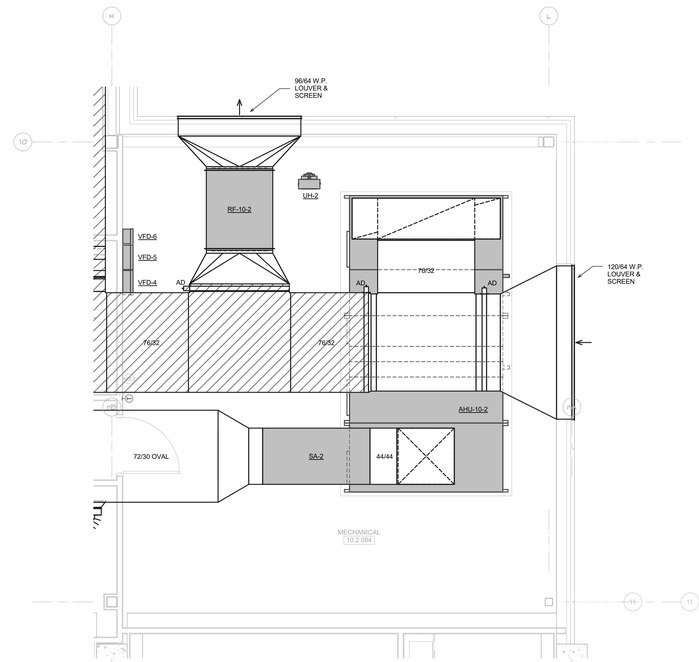
0' 2' 4' 8' 12'



3 H402 LEVEL 820.00 MECH. ROOM DUCTWORK PLAN
1/4" = 1'-0"

NORTH

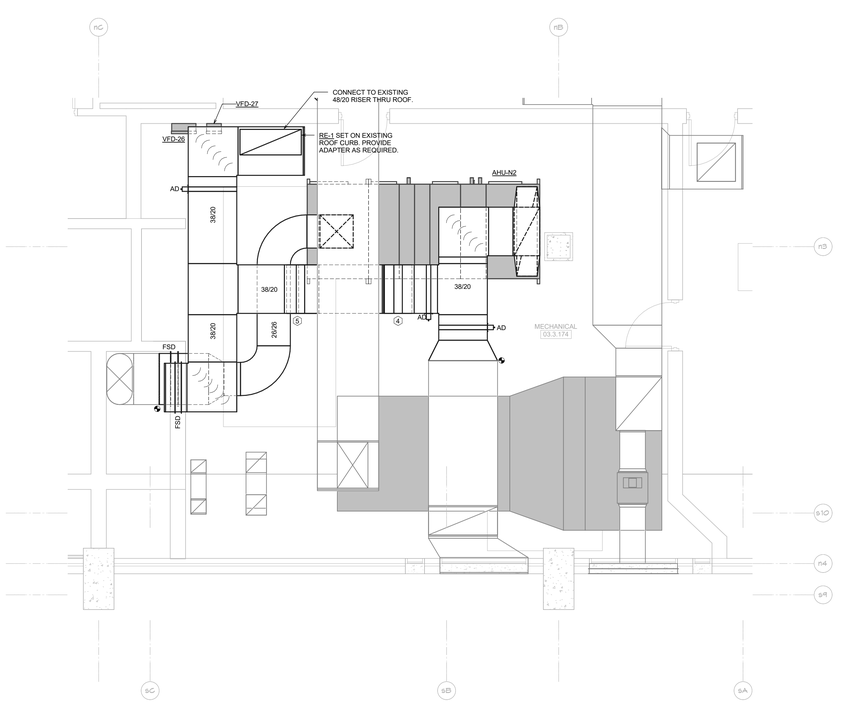
0' 2' 4' 8' 12'



2 H402 LEVEL 805.00 MECH. ROOM DUCTWORK PLAN
1/4" = 1'-0"

NORTH

0' 2' 4' 8' 12'



4 H402 LEVEL 820.00 EXIST. MECH. ROOM DUCTWORK PLAN
1/4" = 1'-0"

NORTH

0' 2' 4' 8' 12'

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REVISION

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ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
HHS NORTH/OCAC MECHANICAL ROOM DUCTWORK PLANS

DESIGNED	DRAWN
RA	JJ

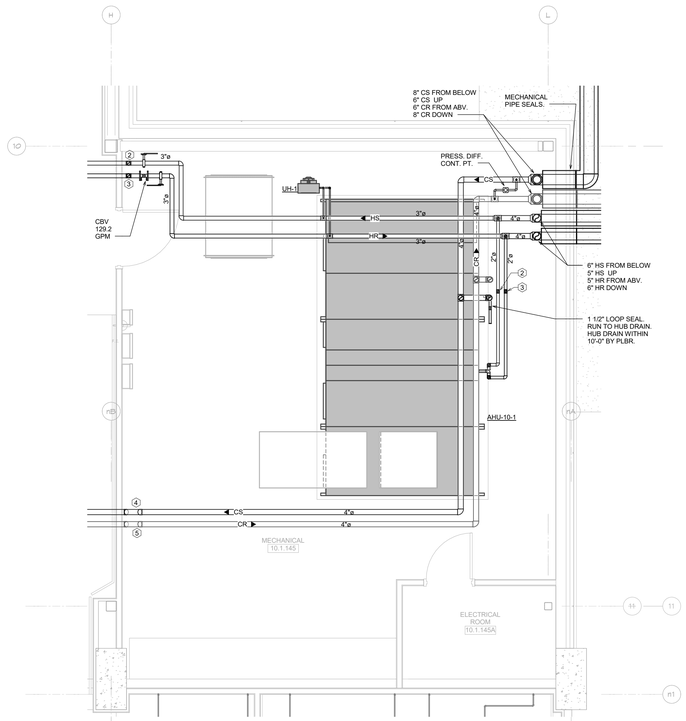
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O0002-61600160

DATE
MARCH 3, 2017

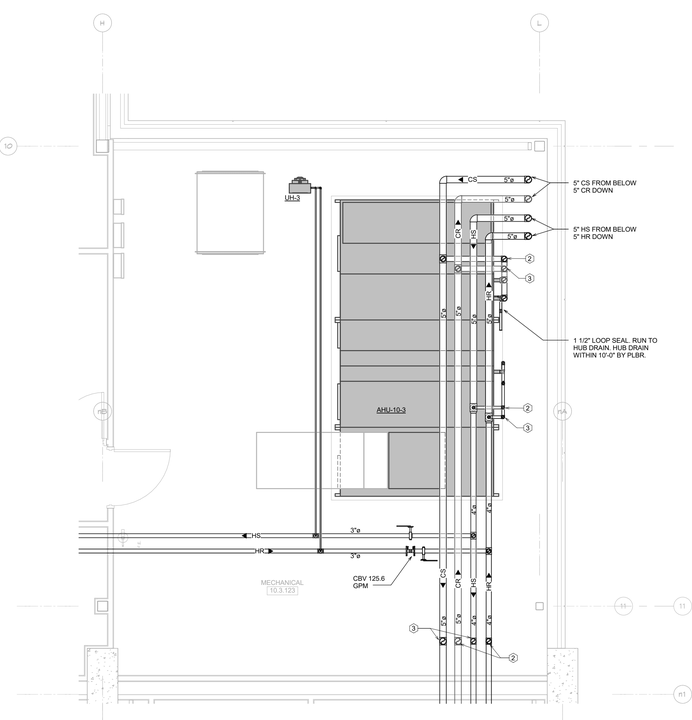
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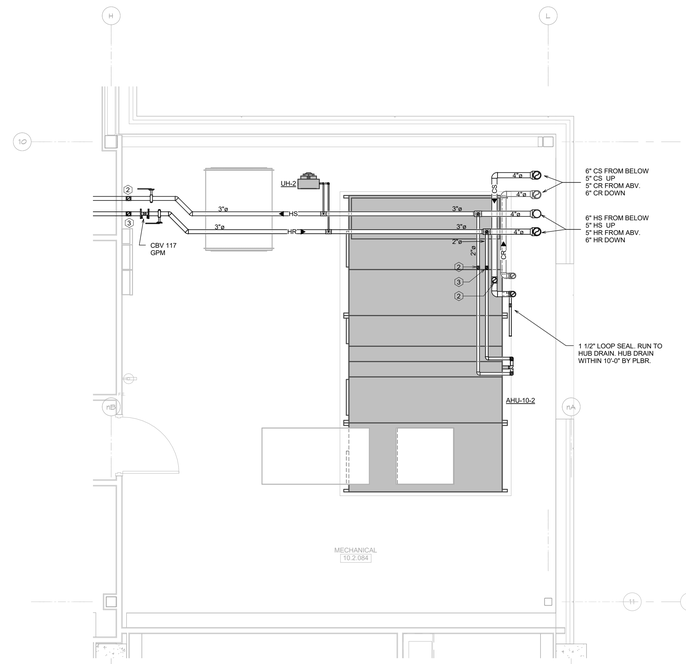
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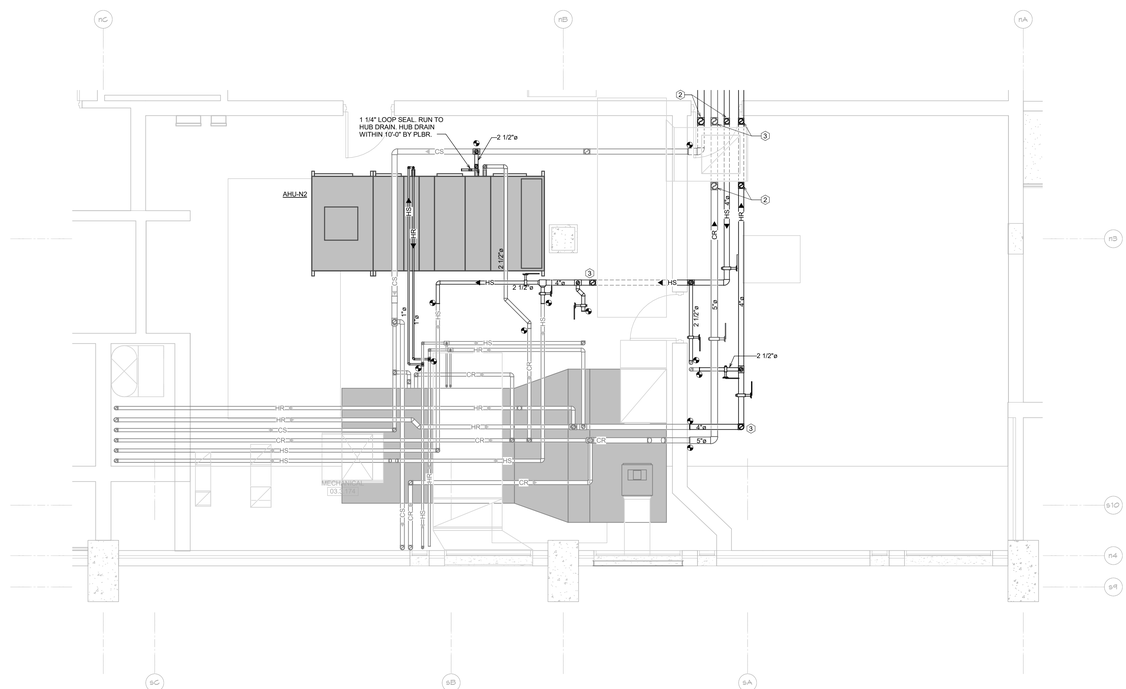
1 H403 LEVEL 790.00 MECH. ROOM PIPING PLAN
1/4" = 1'-0"



3 H403 LEVEL 820.00 MECH. ROOM DUCTWORK PLAN
1/4" = 1'-0"



2 H403 LEVEL 805.00 MECH. ROOM PIPING PLAN
1/4" = 1'-0"



4 H403 LEVEL 820.00 EXIST. MECH. RM. PIPING PLAN
1/4" = 1'-0"

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S. WALNUT & W. 8TH, APPLETON WI 54911
HHS NORTH/OCAC MECHANICAL ROOM PIPING PLANS

DESIGNED	DRAWN
RA	JJ

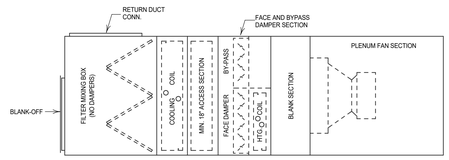
PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

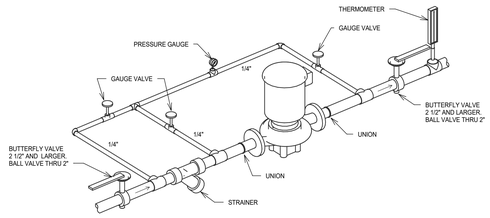
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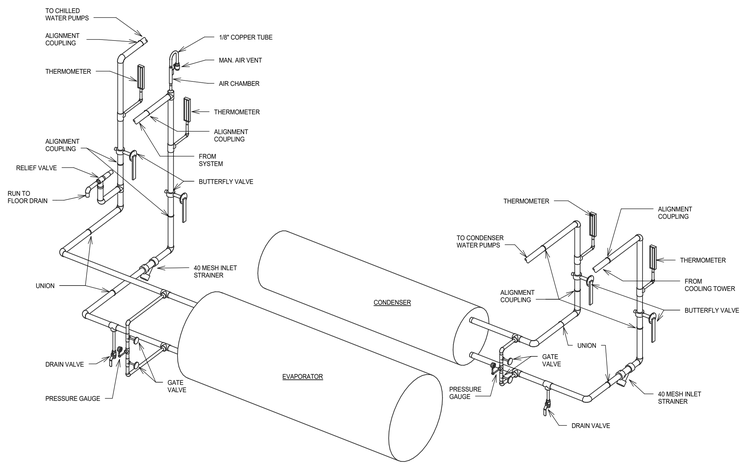
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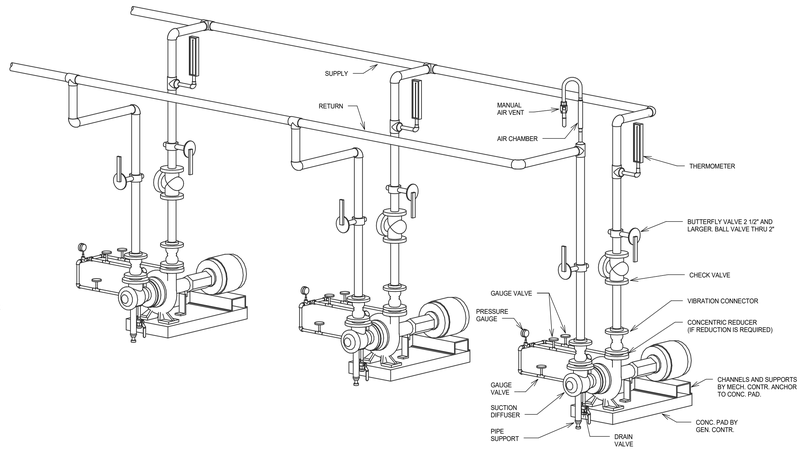
AIR CONDITIONING UNIT CHILLED WATER WITH FACE AND BY-PASS



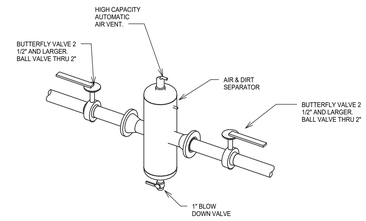
IN-LINE PUMP



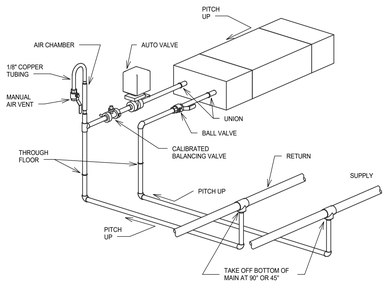
WATER CHILLER



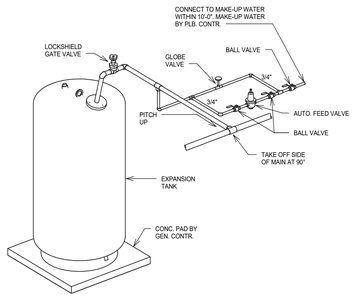
PUMPS



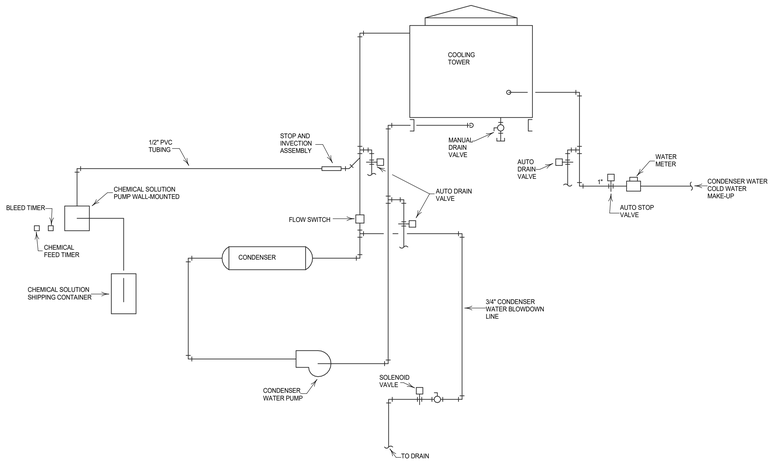
AIR & DIRT SEPARATOR



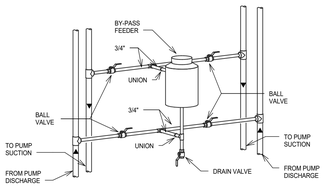
CEILING HUNG HOT WATER CABINET HEATER



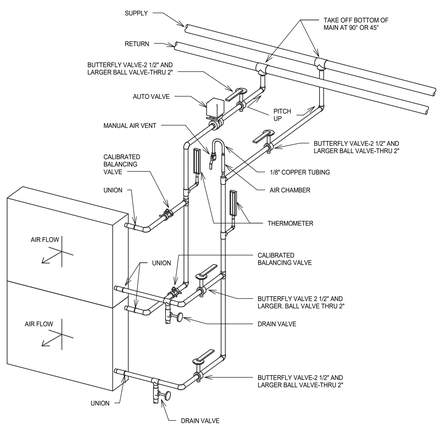
PRESSURIZED TYPE EXPANSION TANK



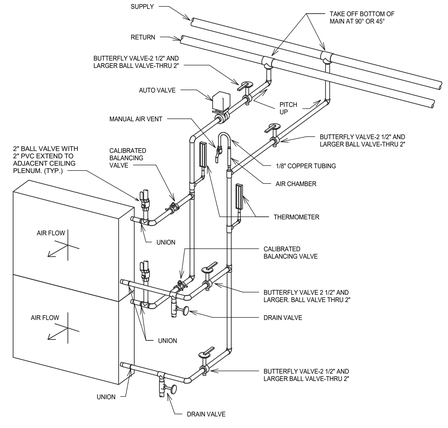
COOLING TOWER WATER TREATMENT AND DRAIN SCHEMATIC



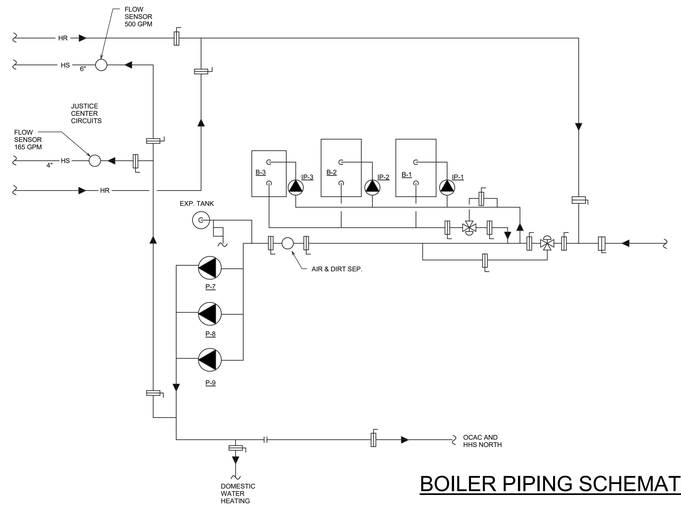
BY-PASS COMPOUND FEEDER



HOT WATER HEATING COIL



CHILLED WATER COOLING COIL



BOILER PIPING SCHEMATIC

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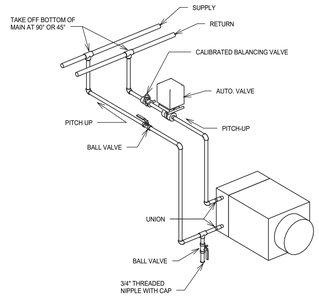
ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
HVAC DETAILS

DESIGNED	DRAWN
RA	JJ

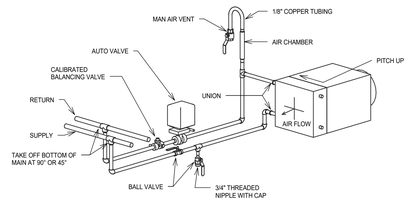
PROJECT NO.
O0002-61600160
DATE
MARCH 3, 2017
SHEET NO.
H800

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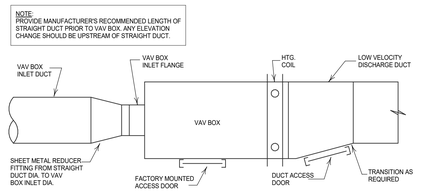
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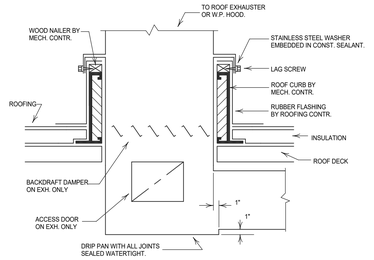
DOWNFEED VARIABLE AIR VOLUME BOX HEATING COIL



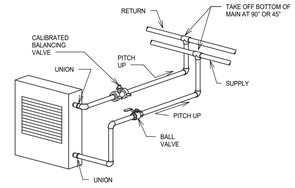
UPFEED VARIABLE AIR VOLUME BOX HEATING COIL



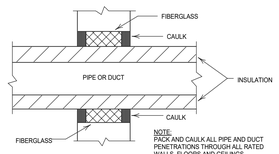
VAV BOX DUCT CONNECTIONS



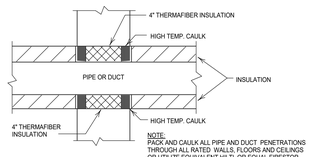
CONDENSATE DRIP PAN



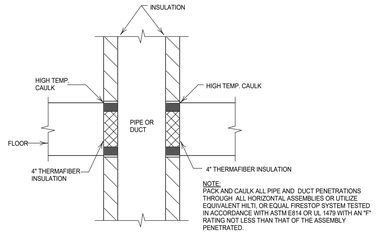
HOT WATER UNIT HEATER



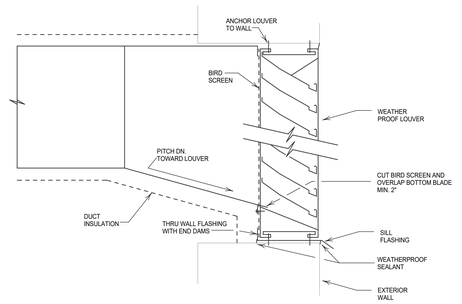
PACK AND CAULK (NON-RATED WALLS)



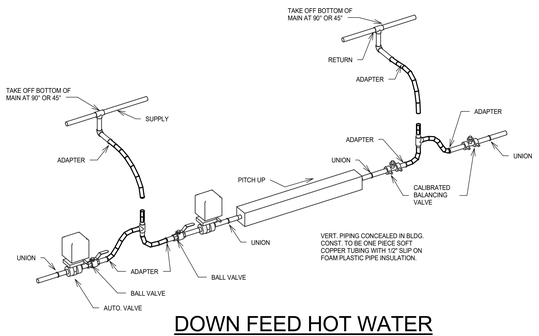
PACK AND CAULK (RATED WALLS)



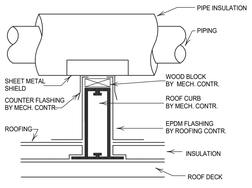
PACK AND CAULK IN HORIZONTAL ASSEMBLY



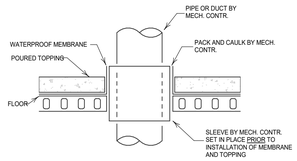
WEATHERPROOF LOUVER



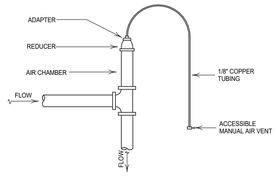
DOWN FEED HOT WATER FIN PIPE RADIATION



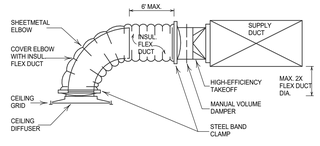
PIPE SUPPORT CURB



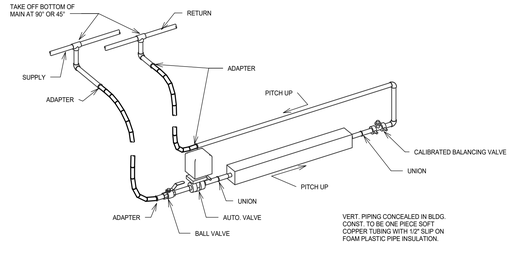
PIPE OR DUCT PASSING THRU EQUIP. ROOM FLOOR



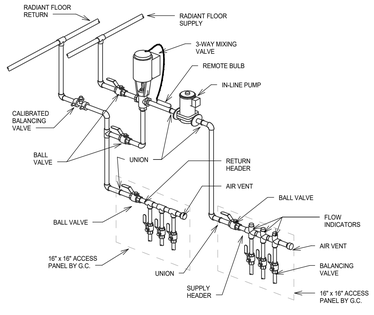
AIR VENT



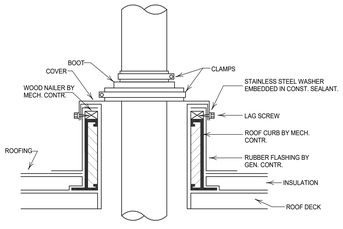
DIFFUSER DETAIL



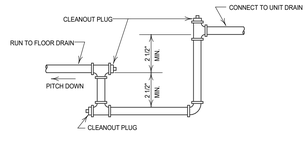
DOWNFEED HOT WATER FIN PIPE RADIATION-SAME END CONNECTION



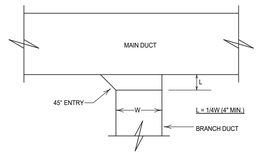
RADIANT FLOOR



PIPE CURB ASSEMBLY



LOOP SEAL



TYPICAL BRANCH CONN.

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NO.	DATE	REVISION

ALTERATION / ADDITION
OUTAGAMIE COUNTY ADMINISTRATION CENTER
S. WALNUT & W. 8TH, APPLETON WI 54911
HVAC DETAILS

DESIGNED	DRAWN
RA	JJ

PROJECT NO.
O0002-61600160

DATE
MARCH 3, 2017

SHEET NO.
H801

J:\Projects\Revit Users Locals\Jamie J\2016\16-0839-C16_JJ.rvt