ACOUSTI	C DUCT LINING	MATRIX
	THICKNESS (IN)	
	2"	1.5"
WITHIN 15' DOWNSTREAM OF VAV BOXES	NOT REQUIRED	YES
15' UP AND DOWNSTREAM OF EXHAUST OR TRANSFER FANS (EXCLUDING TX AND DX)	NOT REQUIRED	YES
SUPPLY DUCTWORK WITHIN EXPOSED/BAFFLED CEILING	NOT REQUIRED	YES
25' DOWNSTREAM AND 15' UPSTREAM OF AC UNIT/FCU FAN UP TO 10,000 CFM, 25' DOWNSTREAM OF BUILDING SHAFTS	NOT REQUIRED	YES
SUPPLY DUCT MAIN WITHIN 25' OF AIR HANDLER OR AC UNIT FAN GREATER THAN 10,000 CFM	YES	NOT PERMITTED
RETURN AIR TRANSFER DUCTS, ALL DUCTWORK ABOVE CONFERENCE ROOMS	NOT REQUIRED	YES

THESE THICKNESS VALUES ARE MEANT ALSO TO PROVIDE AN INSTALLED

UNCONDITIONED SPACE OR ABOVE HUNG CEILING, ADDITIONAL EXTERNAL

R VALUE OF 4.2 OR GREATER. IF A MINIMUM OF R6 INSTALLED VALUE

CANNOT BE MAINTAINED FOR DUCTWORK CONCEALED IN

DIMENSIONAL DATA

REMARKS:

WRAP IS REQUIRED.

DUCT SIZE
12 X 6
14 x 6
16 x 6, 12 x 8
18 x 6
20 X 6, 14 X 8
16 X 8
18 x 8, 14 x 10
20 x 8, 16 x 10
22 x 8
24 x 8, 18 x 10
26 x 8, 20 x 10
28 x 8, 22 x 10
32 x 8, 24 x 10, 20 x 12

L	LINEAR DIFFUSER SCHEDULE									
TYPE	SLOT WIDTH (IN.) AND QUANTITY	CAPACITY (CFM/LF)	NOISE CRITERIA	MODEL						
A1	1", 1 SLOT	40	<20	FL-10-HT						
A2	1", 2 SLOT	70	<20	FL-10-HT						
B1	1-1/2", 1 SLOT	60	<20	FL-15-HT						
B2	1-1/2", 2 SLOT	100	<20	FL-15-HT						
C1	2", 1 SLOT	70	<20	FL-20-HT						
C2	2", 2 SLOT	120	<20	FL-20-HT						
2. RETURN LIN	FUSERS BASED ON TITI EARS TO MATCH SUPP SECTIONS OF LINEAR I	LY.	E FIELD FARRICA	TED 4'-0"						

3. ALL ACTIVE SECTIONS OF LINEAR DIFFUSERS TO BE FIELD FABRICATED 4'-0" PLENUMS UNLESS OTHERWISE NOTED OR SHOWN ON PLANS. 4. ALL INACTIVE SECTIONS OF LINEAR DIFFUSERS TO BE PROVIDED WITH LIGHT SHIELDS AND USED AS RETURN. 5. STANDARD THROW CONFIGURATION SHALL BE DIRECTED INWARD TO THE ROOM. REFER TO PLANS FOR THROW DIRECTION FOR DIFFERENT CONDITIONS. 6. FOR LINEAR DIFFUSERS LOCATED IN MILLWORK, FABRIC CEILINGS, CEILING TROUGHS, AND BETWEEN TILES, PROVIDE BORDER TYPE 55. FOR LINEAR DIFFUSERS LOCATED IN GYP CEILING, PROVIDE BORDER TYPE 22, TAPE AND SPACKLE, AND WITH WHITE FINISH. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION ON CEILING TYPES. FINAL FINISH AND BORDER TYPE TO BE VERIFIED IN SHOP DRAWINGS FOR EACH LOCATION.

	CEILII	NG DIF	FUSER ATE FA		DULE	
ΖE	NOMINAL	DIRECTION	CAMBOI		CFM RANGE	
<u>.</u> E	SIZE	DIRECTION	SYMBOL	4-WAY	3-WAY	2-1

NECK SIZE	NOMINAL	DIRECTION	SYMBOL			
NECK SIZE	SIZE	DIRECTION	STWIDOL	4-WAY	3-WAY	2-WAY
8"	12 X 12	ALL PATTERNS	X	UP TO 200	UP TO 150	UP TO 10
8"	24 X 24	ALL PATTERNS	\boxtimes	UP TO 200	UP TO 150	UP TO 10
10"	24 X 24	ALL PATTERNS	\boxtimes	201 - 325	151 - 240	101 - 16
12"	24 X 24	ALL PATTERNS	\boxtimes	326 - 475	241 - 355	161 - 23
14"	24 X 24	ALL PATTERNS	\boxtimes	476 - 625	356 - 465	236 - 31
15"	24 X 24	ALL PATTERNS	\boxtimes	626 - 750	466 - 560	311 - 37
8"	12 X 12	RETURN		-	-	-
15"	24 X 24	RETURN		-	-	-
REMARKS:		1		1		
 DIFFUS 	ERS BASE	D ON TITUS	MODEL ON	1NI		

. RETURN DIFFUSERS BASED ON TITUS MODEL OMNI W/ LIGHT SHIELDS B. DIFFUSERS AND GRILLES MUST BE COMPATIBLE WITH CEILING TYPES ON PLAN. REFER TO ARCHITECTURAL PLANS FOR ALL FINISHES AND BORDER TYPES.

PROJECT NOTES:

Default

1. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY **CONSERVATION CODE**

BOOK SPECIFICATION IS PART OF THIS CONTRACT "THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS 4-way Center Steel Default SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES."

Gensler

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WORKSHOP

Lindsey Trinity Consultants | Cerami 1001 Ave of the Americas, 4th

Trinity CERAMI

BROOKBRIDGE

New York, NY 10018 Tel 212.370.1776

RG ROMANO

Romano Gatland 1 Huntington Quad Suite 2C03 Melville, NY 11747 Tel 631.226.7700

ackslash Date Description

1 06/28/2024 ISSUED FOR DD 2 10/04/2024 ISSUED FOR 100% DD 3 12/20/2024 ISSUED FOR 25% CD 4 02/12/2025 ISSUED FOR 50% CD 5 03/28/2025 ISSUED FOR 75% CD

6 04/16/2025 ISSUED FOR 90% CD 7 05/02/2025 ISSUE FOR BID/LL REVIEW

Seal / Signature

Paul, Weiss - 1345 AoA Relocation

Project Number 877207

Description

MECHANICAL SCHEDULES I

NO SCALE

M-100.00

	-	_	-		RETURN	X 12
TOP REGISTER SCHEDULE						
				/	RETURN	Y 21

MINAL DUCT SIZE	CFM RANGE	DAMPER	NC	TOTAL PRESSURE
12X6	0 - 200	OBD	<25	0.1
16X6	201 - 300	OBD	<25	0.1
18X6	301 - 400	OBD	<25	0.1
24X6	401 - 500	OBD	<25	0.1
24X8	501 - 700	OBD	<25	0.1
36X8	701 - 1000	OBD	<25	0.1
36X10	1001 - 1350	OBD	<25	0.1
36X12	1351 - 1700	OBD	<25	0.1

Air Device Schedule

225 0.05

275 0.07

300 0.03

325 0.03

200

250

22.5 350 0.04

22.5

22.5

Titus R-OMNI 10 22.5 375 0.04

Module Size Airflow CFM Max Pd. Throw Max NC Pattern

1. DOUBLE DEFLECTION, 3/4" SPACING, STEEL REGISTER.

Tag Service Mfg. Model Neck Size

Titus R-OMNI 10

3. All air devices shall be tested in accordance with ASHRAE Standard 70-2006.

4. NC values are based upon a 10 dB Room Attenuation as outlined in the Titus catalog.

5. All Throw Values are Isothermal, and measured in feet.

All pressures are in inches, w.g.
 For rooms with any 22.5" R-omni all other supply diffuser to match.

Notes: 1. Border types shall be compatible with architectural ceiling type for the room in which the air device is located.

2. See the plans for location and air quantities of each air device.

2. BASED ON TITUS MODEL 300RL FOR RECTANGULAR DUCTWORK 3. BASED ON TITUS MODEL S300FL WITH ASD-AIR SCOOP DAMPER / EXTRACTOR. FOR FLAT OVAL DUCTWORK.

4. DIFFUSER FINISH SHALL MATCH DUCTWORK FOR AREAS WITH EXPOSED CEILING. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DETAIL.

DIRECTION SYMBOL UP TO 150 UP TO 100 **×** 466 - 560 311 - 375

4-way

Center

Center Steel

4-way Center Steel Default

CEILING DIFFUSER SCHEDULE

(LOUVERED FACE)

. DIFFUSERS BASED ON TITUS MODEL TDC. 2. FACE SELECTION OF TDC LOUVER DIFFUSER TO CORRESPOND TO 3-WAY OR 2-WAY PATTERNS AS SHOWN ON PLAN. (S2, G2, A3 PATTERN TYPES WHERE APPLICABLE BASED ON PATTERN ARROWS SHOWN) 3. DIFFUSERS AND GRILLES MUST BE COMPATIBLE WITH CEILING TYPES ON PLAN. REFER TO ARCHITECTURAL PLANS FOR ALL FINISHES AND BORDER TYPES.

VIBRATION ISOLATION SCHEDULE								
Base Type	Isolator Type	Static Deflection						
	Type A	2"						
	Type C	1"						
	Type C	1"						
	Type A	2"						
	Type F	2"						
	Type C	2"						
Type B-2	Type A	2"						
	Type D	0.3"						
	Type A	1"						
	Type D	0.3"						
	Type A	2"						
Type B-1, as required	Type D	0.3"						
	Type B-2	Base Type Type A Type C Type C Type A Type F Type C Type C Type B-2 Type A Type D Type A Type D Type A						

PIPING SHALL BE ISOLATOED FOR A MINMUM DISTANCE OF 50' FROM EQUIPMENT OR 100 PIPE DIAMTERS, WHICHEVER IS GREATER - ALL ISOLATION OF PLUMBING EQUIPMENT APPLIES TO DOMESTIC AND

HVAC RELATED PIPING - REFER TO RDA BOOK SPECFICATIONS SECTION HV-29 FOR ADDITIONAL INFORMATION ON ISOLATOR TYPES

CIZE	CIZE MAY CAD	MAY OFT	MAY OFT	PRESSURE DROP	N.C. AT	1.0" ∆Ps
SIZE	MAX. CAP.	MAX. SET	MIN. SET.	MAX CFM Pt	DISCHARGE	RADIATED
6	500	350	80	0.03	21	<20
8	900	750	145	0.01	22	23
10	1400	1100	230	0.01	22	24
12	2000	1600	325	0.01	21	24
14	3000	2100	450	0.01	22	25
16	4100	3100	580	0.01	23	28
 MIN. SET P CONTROLS 	N BASED ON TITUS OINT SHALL BE 40 S SHALL INCLUDE OWER SUPPLY W	0% OF MAX SHOWN DDC ADJUSTABL	E VAV COOLING	JT NOT LOWER THAN	SCHEDULED MIN.	

5. DDC CONTROLS INSTALLED BY BMS VENDOR

	FAN COIL	. UNIT	SCHEDULE							FAN S	СН
UNIT NO.			FCU-14-1 FCU-16-1	FCU-15-1, -2 FCU-16-2, -3		UNIT NO.		TX-13-1, -2 TX-14-1, -2	EF-15-4	DXF-14-1	
TYPE			2-PIPE, 6-ROW - HEATING & COOLING	2-PIPE, 6-ROW - HEATING & COOLING		ONIT NO.		TX-15-1, -2 TX-16-1, -2	EF-16-4	DAI 14 1	
MANUFACTURER			IEC	IEC		SERVICE		SEE PLANS	SEE PLANS	14TH FLOOR	15T
MODEL NO.			HPY12	HPY08						DISHWASHERS	
RATED CFM			921	550		LOCATION		CEILING	CEILING	14TH FLOOR MER	14
	EWT/LWT (°F)		45/55	45/55		MANUFACTURER		GREENHECK	GREENHECK	GREENHECK	
	GPM		7.7	4.6		MODEL NO.		CSP-A1050	CSP-A780	BSQ-160HP	
	PD (FT. OF H2O)		11.1	3.7		TYPE		INLINE	INLINE	INLINE	
COOLING CAPACITY	(/	DB (°F)	80	80		CFM		720	700	600	
	ENT'G AIR	WB (°F)	67	67		SP (IN. W.G.)		0.75 1070	0.375 1600	1924	
		TOTAL	39.3	22.7		Krivi	TYPE	BC	BC	BELT-DRIVE	
	CAPACITY (MBH)	SENSIBLE	26.8	15.7			HP OR KW	0.467 KW	0.49 KW	2 HP	
	EWT/LWT (°F)		150/132.2	150/131.6		MOTOR	RPM	1070	1600	1725	
	GPM		7.8	4.5			VOLTS/PH/HZ	120/1/60	120/1/60	460/3/60	
LIFATING CARACITY	PD (FT. OF H2O)		8.7	2.9		OTABTER	TYPE	BMS	LINE VOLTAGE STAT	BMS	
HEATING CAPACITY	ENT'G AIR	DB (°F)	70	70		STARTER	NEMA	-	-	-	
	ENT GAIR	WB (°F)	-	-		DIMENSIONAL DATA	LxWxH (IN.)	23X14X14	18X15X15	28.5x20x22.75	
	CAPACITY (MBH)	TOTAL	68.6	41		DIMENSIONAL DATA	WEIGHT (LB)	59	36	188	
	WATTS		217.6	141.2		REMARKS:					
MOTOR	NO. SPEEDS		3	3		1. ALL FANS SHALL 2. PROVIDE UNIT MO			PPLICABLE.		
	RPM (LOW/MED/H	IIGH)	MED	MED		3. PROVIDE VIBRAT	ION ISOLATION				
FILTER SIZE	LxW (IN.)		14x35	14x26		4. PROVIDE PERFOR	RMANCE BAFFLE	FOR DXF-14-1	TO MEET PRESSURE A	AND AIRFLOW REQUIR	RED.
ELECTRICAL DATA	FLA / MCA / MFS		6.6 / 7.425 / 15	4.3 / 5.375 / 15							
LLLOTRIOAL DATA	VOLTS / PH / HZ		115 / 1 / 60	115 / 1 / 60							

115 / 1 / 60 115 / 1 / 60

				FAN S	CHEDULE -	AMENITY FL	LOORS			
JNIT NO.		TX-13-1, -2 TX-14-1, -2 TX-15-1, -2 TX-16-1, -2	EF-15-4 EF-16-4	DXF-14-1	DXF-14-2	EF-13-1 EF-14-1 EF-15-3 EF-16-3	EF-15-2, -5 EF-16-2, -5	GXF-14-1	EF-15-1 EF-16-1	ADD-ALT: TF-13-1 TF-14-1 TF-15-1 TF-16-1
SERVICE		SEE PLANS	SEE PLANS	14TH FLOOR DISHWASHERS	15TH & 16TH FLOOR DISHWASHERS	SEE PLANS	SEE PLANS	GREASE TRAP ROOM	PANTRY	IDF
OCATION		CEILING	CEILING	14TH FLOOR MER	14TH FLOOR MER	CEILING	CEILING	14TH FLOOR MER	CEILING	CEILING
MANUFACTURER		GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NO.		CSP-A1050	CSP-A780	BSQ-160HP	QEI-9	CSP-A510-VG	CSP-A390-VG	CSP-A3300-VG	CSP-A700	CSP-A1300
ГҮРЕ		INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE
CFM		720	700	600	1200	500	250	2300	600	1200
SP (IN. W.G.)		0.75	0.375	2	3	0.25	0.25	1	0.5	0.25
RPM		1070	1600	1924	2953	1275	1260	1090	1035	1300
	TYPE	BC	BC	BELT-DRIVE	BELT-DRIVE	BC	EC	BC	BC	BC
MOTOR	HP OR KW	0.467 KW	0.49 KW	2 HP	1.5 HP	0.156 KW	0.829 KW	0.8 KW	0.312 KW	0.7 KW
WOTOR	RPM	1070	1600	1725	3600	1275	1260	1090	1035	1300
	VOLTS/PH/HZ	120/1/60	120/1/60	460/3/60	460/3/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60
TADTED.	TYPE	BMS	LINE VOLTAGE STAT	BMS	BMS	LINE VOLTAGE STAT	LINE VOLTAGE STAT	BMS	BMS	BMS
STARTER	NEMA	-	-	-	-	-	-	-	-	-
NIMENOIONAL DATA	LxWxH (IN.)	23X14X14	18X15X15	28.5x20x22.75	28.5x20x22.75	15x18x15	12x14x12	45x16x16	12x24x12	23X14X14
DIMENSIONAL DATA	WEIGHT (LB)	59	36	188	188	36	23	122	34	59

		FAN S	CHEDULE -	PRACTICE	FLOORS		
UNIT NO.		EF-31-1,2 EF-32-1,2 EF-33-1,2 EF-35-1,2 EF-36-1,2 EF-37-1,2 EF-39-1,2 EF-40-1,2 EF-41-1,2 EF-42-1,2 EF-43-1,2 EF-44-1,2	EF-32-4 EF-34-4 EF-40-4 EF-42-4	EF-41-4 EF-41-5	(ADD - ALTERNATE) EF-29-3 EF-30-3 EF-31-3 EF-32-3 EF-33-3 EF-34-3 EF-36-3 EF-36-3 EF-38-3 EF-39-3 EF-40-3 EF-41-3 EF-42-3 EF-42-3 EF-43-3 EF-44-3	TX-29-1,2 TX-30-1,2 TX 31-1,2 TX-32-1,2 TX-33-1,2 TX-34-1,2 TX-35-1,2 TX-36-1,2 TX-37-1,2 TX-38-1,2 TX-39-1,2 TX-40-1,2	TX-41-1 TX-42-1 TX-43-1 TX-44-1
SERVICE		ELEC ROOM	AIR COOLED COMPRESSORS	AV RACK CLOSET	IDF	RESTROOMS	RESTROOMS
LOCATION		CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED
MANUFACTURER		GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NO.		CSP-A780	CSP-A700-VG	CSP-A510	CSP-A1300	CSP-A1050-VG	SQ-130-VG
TYPE		INLINE	INLINE	INLINE	INLINE	INLINE	INLINE
CFM		700	400	400	1200	850	1540
SP (IN. W.G.)		0.25	0.25	0.125	0.25	0.5	1
RPM		1600	1275	1070	1300	1213	1600
	TYPE	BC	BC	BC	BC	BC	BC
MOTOR	KW	0.5	0.63	0.2	0.7	0.2	.5 HP
	RPM	1600	1275	1070	1300	1213	1600
	VOLTS/PH/HZ	115V	115V	115V	115V	115V	115V
STARTER	TYPE	BMS	BMS	BMS	BMS	BMS	BMS
	LxWxH (IN.)	18X15X15	23X12X12	18X14X14	23X14X14	24X14X15	21X21X21
DIMENSIONAL DATA	WEIGHT (LB)	36	34	36	59	49	68

1. ALL FANS SHALL HAVE ECM MOTORS. 2. PROVIDE UNIT MOUNTED SPEED CONTROLLER. 3. PROVIDE VIBRATION ISOLATION

. PROVIDE FIRE ALARM SHUTDOWN TERMINAL. 2. EACH UNIT TO BE HEATING AND COOLING. EACH UNIT TO BE PROVIDED WITH AQUASTAT ON PIPING TRIM, TIED TO FCU OPERATION BASED ON WATER TEMPERATURE. SEE BOOK SPECIFICATIONS FOR MORE DETAILS ON OPERATION 3. PROVIDE (2) SPARE FILTERS PER FCU 4. ALL UNITS TO BE REAR RETURN.

WEIGHT (LBS)

DOB NOW JOB# DRAWING NO. _____ OF _

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	WATER SOL	IRCE HEAT	PUMP SCHE	EDULE - AM	ENITY FLOC	ORS	
UNIT NO.		AC-14-7, -8	AC-14-3, -4	AC-14-1, -2, -5, -9 AC-15-2 AC-16-2	AC-13-1	AC-13-2 AC-14-6	AC-C-1
SERVICE		SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
LOCATION		CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED
MANUFACTURER		FLORIDA HEAT PUMP	FLORIDA HEAT PUMP	FLORIDA HEAT PUMP	FLORIDA HEAT PUMP	FLORIDA HEAT PUMP	FLORIDA HEAT PUMP
MODEL NO.		CL012-HZ	CL018-HZ	CL024-HZ	CL030-HZ	CL036-HZ	CL048-HZ
REFIGERANT TYPE		R454B	R454B	R454B	R454B	R454B	R454B
FAN PERFORMANCE	CFM	375	600	800	925	1,150	1,600
	E.S.P. (IN. W.G.)	0.4	0.5	0.5	0.4	0.5	0.5
	MOTOR HP	0.25	0.33	0.5	0.5	0.75	0.75
	GPM	2.3	3.8	5	6	7.7	9.5
CONDENSOR WATER	P.D. (FT. OF H2O)	5.6	7.4	7.4	5.5	8.7	7.6
	WORKING PRESSURE (PSIG)						
	EWT/LWT (°F)	87/99	87/99	87/99	87/99	87/99	87/99
	EAT (°F DB/WB)	80/67	80/67	80/67	80/67	80/67	80/67
COOLING DEDEODMANCE	TOTAL COOLING CAPACITY (BTU)	11.1	18.1	22.5	28.6	36.7	46
COOLING PERFORMANCE	SENSIBLE COOLING CAPACITY (BTUH)	8.7	13.8	17.9	21.6	26.7	33.9
	EER	-	-	-	-	-	-
COMPDECCOD	QUANTITY	1	1	1	1	1	1
COMPRESSOR	RLA (EA.)	4.6	7.6	3.8	4.5	5.8	12.2
ELECTRICAL DATA	VOLTS/PH/Hz	208/1/60	265/1/60	460/3/60	460/3/60	460/3/60	208/3/60
ELECTRICAL DATA	FLA/MCA/MFS	6.9/8.1/15	10.2/12.1/15	5.9/6.9/15	6.6/7.7/15	9/10.4/15	18.2/21.2/30
	LxWxH (IN.)	33x19x11.5	44x21.5x17	44x21.5x18	44x21.5x18	47x21.5x19	54x24x21
DIMENSIONAL DATA	WEIGHT (LRS)	114	154.8	183.2	187 <i>I</i>	205.2	266.6

114 154.8 183.2 187.4

PROVIDE: 1. UNIT CAPABLE OF COOLING AND HEATING.

2. HOT GAS BYPASS.

3. 5-YEAR COMPRESSOR WARRANTY. 4. EXTENDED RANGE UNIT AND LOW ENTERING WATER KIT.

WEIGHT (LBS)

5. EXTRA QUIET SOUND PACKAGE.

6. ECM MOTORS. 7. FIRE ALARM SHUTDOWN TERMINAL.

8. VIBRATION ISOLATION.

FAILURE.

9. AUXILIARY DRIP PAN, LEAK DETECTOR AND CONDENSATE PUMP. 10. CONTROLS TO BE PROVIDED BY CONTROLS VENDOR

11. UNITS TO BE ORDERED WITH MINIMUM CONTROL REQUIREMENT 12. UNIT MANUFRACTURER/VENDOR TO INSTALL BMS VENDOR CONTROLS PRIOR TO SHIPPING TO SITE.

	PUMP SCH	EDULE - AME	ENITY FLOO	RS	
UNIT NO.		PCWP-15-1, -2	SCWP-15-1, -2	CWP-14-1, -2, -3	
SERVICE		15TH FLOOR WCCU	15TH FLOOR WCCU	13-16 FLOORS	
TYPE		IN LINE	IN LINE	END SUCTION	
LOCATION		CEILING	CEILING	14TH FLOOR MER	
MANUFACTURER		GRUNDFOS	GRUNDFOS	GRUNDFOS	
MODEL NO.		CR5-DOL5-2P	CR5-DOL3-2P	NBS25-DOL70-2P	
	TEMP (°F)	87	89	87	
	FLUID	WATER	WATER	WATER	
	GPM	34.18	34.18	250	
FLUID DATA	TOT. OPER. HEAD. (FT.)	100'	40'	120'	
	SHUT OFF HEAD (FT.)	116.5'	65.29'	124'	
	NPSH REQ. (FT.)	40'	38'	9.48	
OPERATING PRESS. (P	SIG			-	
	TYPE	WEG	WEG	TEFC	
MOTOD	HP	2	1	15	
MOTOR	RPM	3500	3500	3530	
	VOLTS/PH/HZ	460/3/60	460/3/60	460/3/60	
CTADTED	TYPE	VFD	VFD	VFD	
STARTER	NEMA SIZE	-	-	-	
DIMENCIONAL DATA	LxWxH (IN.)	10x9x28	10x9x24	46x15x18	
DIMENSIONAL DATA					

1. PUMPS CWP-14-1 AND CWP-14-2 TO BE A LEAD LAG CONFIGURATION. CWP-14-3 TO OPERATE AS BACK UP FOR PUMP FAILURE. 2. PCWP-15-1 AND SCWP-15-1 TO BE OPERATING PUMP, PCWP-15-2 AND SCWP-15-2 TO OPERATE AS BACK UP FOR PUMP

3. PROVIDE VFD FOR EACH PUMP CWP-14-1, -2, -3 WITHIN MER. 4. PROVIDE DRIP PAN AND LEAK DETECTOR FOR EACH PUMP.

WEIGHT (LB.)

PUMP S	CHEDULE - P	RACTICE FI	LOORS	
UNIT NO.		CWP-37-1, 2, 3	CWP-35-1, 2	
SERVICE		29TH-44TH FLOORS	MDF CRAC UNITS	
TYPE		INLINE	INLINE	
LOCATION		37TH FLOOR	35TH FLOOR	
MANUFACTURER		GRUNDFOS	GRUNDFOS	
MODEL NO.		CRE32-DOL2-1	CRE5-DOL6	
	TEMP (°F)	68	68	
	FLUID	WATER	WATER	
FLUID DATA	GPM	160	30	
FLUID DATA	TOT. OPER. HEAD. (FT.)	120'	100'	
	SHUT OFF HEAD (FT.)			
	NPSH REQ. (FT.)	12.69	8.41	
OPERATING PRESS. (P	PSIG)	300	300	
	TYPE	TEFC	TEFC	
MOTOD	HP	7.5	2	
MOTOR	RPM	3500	3027	
	VOLTS/PH/HZ	460/3/60	460/3/60	
CTARTER	TYPE			
STARTER	NEMA SIZE			
DIMENSIONAL DATA	LxWxH (IN.)	12x12x28	10X9X27.7	
DIMENSIONAL DATA	WEIGHT (LB.)	198	88.9	

- PROVIDE INVERTER DUTY MOTOR FOR IN LINE PUMPS

- PUMPS TO BE LEAD LAG CONFIGURATION

				RLA(EA.)			
				VOLTS/PH/Hz		265/1/60	265/
		ELECTRICA	L DATA	FLA/MCA MOCP		5.8/6.7/15	10.2/1
		DIMENSION	AL DATA	33x19x11.5	44x21		
		PROVIDE: 1. UNIT CA 2. HOT GA 3. 5-YEAR 4. EXTEND 5. EXTRA (6. ECM MC 7. FIRE AL 8. VIBRATI 9. AUXILIA 10. CONTRO 11. UNITS T	APABLE OF COO S BYPASS. COMPRESSOR WED RANGE UNI QUIET SOUND F OTORS. ARM SHUTDOV ON ISOLATION ARY DRIP PAN, OLS TO BE PRO O BE ORDEREI	T AND LOW ENTERING PACKAGE. VN TERMINAL.	CONDENSATI /ENDOR ROL REQUIR	114 E PUMP. EMENT	15
VATER COOL	_ED COMP		ROOM A		EDULE	E - PRACTIC	E
UNIT NO.				CRAC-35-2 CRAC-35-3 CRAC-35-4	CRAC-29-1 CRAC-30-1 CRAC-31-1 CRAC-32-1 CRAC-33-1 CRAC-34-1 CRAC-35-1 CRAC-36-1 CRAC-37-1 CRAC-38-1 CRAC-39-1 CRAC-40-1 CRAC-41-1 CRAC-41-1 CRAC-42-1 CRAC-43-1 CRAC-44-1		
ERVICE				MDF		IDF	
OCATION				OR MOUNTED	Fl	LOOR MOUNTED	
ANUFACTURER ODEL NO.				BOVE AIR -00ERH-EC-FE-UF0-1A	MCM 0079	ABOVE AIR S1-7-00000-EC-00-UF2->	/5
ER			IVICVV-01851-4	-UUEKH-EU-FE-UFU-TA	IVICVV-0073	S1-7-00000-EC-00-0F2-7	(3)
_IX	CFM			2800		850	
AN	E.S.P. (IN. W.G.)			0.5		0.5	
	MOTOR (kW)			4.5		1 KW	
	CFM			2800		850	
	ENT'G AIR	DB°F		75		75	
(COIL	LIVI O AIR	R.H.		50		62.5	
	CAPACITY MBH	TOTAL		68.9		28.2	
	O/ II / IOIT I WIBIT	SENSIBLE		65.1		21.5	
	E.W.T. (°F)			87		87	
	L.W.T. (°F)			99		99	
NDENSOR	GPM		13.7		5.8		
	P.D.(FT. OF H2O			9.3		8.6	
	WORKING PRESSU	IRE (PSI)		-		-	
	QUANTITY			1		1	
MPRESSOR	REFIGERANT			R-410A 7.8		R-410A 10.9	
	RLA(EA.) TYPE			MERV-8		MERV-8	
.TER	NO./SIZE		(1) 25X29X4		(1) 18X24X2	
	TYPE		· ·	AM CANISTER		-	
MIDIFER	FLA			7.4		-	
	LBS/HR			10		-	
	NO. OF STAGES		2-STAGE	ELECTRIC HEAT		-	
ECTRIC REHEAT	FLA			12.6		-	
	KW			10		-	
ECTRICAL DATA	VOLTS/PH/Hz			460/3/60		277/1/60	
	FLA/MCA MOCP			.4X31.5X35		14.6/17.3/25	
MENSIONAL DATA	LxWxH (IN.)		4	40X34X77		24X24X77	
ROVIDE:	WEIGHT (LBS)			625		480 LBS	
 HOT GAS BYPASS. 5-YEAR COMPRESSOR EXTENDED RANGE UNI EXTRA QUIET SOUND F FIRE ALARM SHUTDOM VIBRATION ISOLATION. 	T AND LOW ENTERIN PACKAGE. /N TERMINAL.						

205.2

	WATER SOUR	CE HEAT P	UMP SCHE	DULE - PRA	CTICE FLC	ORS					COOLED A	
UNIT NO.		AC-29-1 AC-30-1 AC-31-1 AC-32-1 AC-33-1			AC-29-2			UNIT NO. SERVICE LOCATION MANUFACTURER MODEL NO. EER	CFM		AC-15-1 SEE PLANS MER - SEE PLANS MAMMOTH VVW-303-GXST 16.53 10,500	AC-16-1 SEE PLANS MER - SEE PLANS MAMMOTH VVW-393-CXST-L 17.03 14,000
		AC-34-1 AC-35-1		AC-31-2 AC-32-2	AC-31-3			FAN	E.S.P. (IN. W.G.)		2	2
		(ADD-ALT) AC-35-2 AC-36-1	AC-37-2	AC-32-3	AC-33-4 AC-35-3	A.C. 40 F	AC 41 2		MOTOR HP		15	20
		AC-37-1	AC-37-3	AC-33-2 AC-33-3	AC-39-2	AC-40-5	AC-41-3		MAX. FACE VEL.	°F DB	420 80	427.21 80
		AC-39-1 AC-40-1		(ADD-ALT) AC-40-4	AC-40-3 AC-41-2				ENT'G AIR	°F WB	67	67
		AC-40-1 AC-40-2		AC-43-2	AC-43-3			DX COIL	LVG. AIR	°F DB	54.3	55.5
		AC-41-1 AC-42-1						DA GOIL		°F WB	53.8 421.5	55.3 505.8
		AC-43-1			SEE PLANS				CAPACITY MBH	SENSIBLE	295.2	375.9
		AC-44-1							MIN. NO. OF ROWS		6	6
			SEE PLANS	SEE PLANS				CONDENSOR	EWT / LWT (°F)		87/99	87/99
									GPM PRESS. DROP (FT O	E H3O)	86 4.2	103 5.7
SERVICE		SEE PLANS				SEE PLANS	SEE PLANS		WORKING PRESSUR	,	300	300
LOCATION		CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED	CEILING MOUNTED		NO.	, ,	3	3
MANUFACTURER		FLORIDA HEAT	FLORIDA HEAT	FLORIDA HEAT	FLORIDA HEAT	FLORIDA HEAT	FLORIDA HEAT	COMPRESSOR	TYPE		SCROLL	SCROLL
MODEL NO.		CL012-HZ	CL018-HZ	CL024-HZ	CL030-HZ	CL036-HZ	CL048-HZ		FLA (EA.)		15.3 MERV-8 (PRE)	16.4 MERV-8 (PRE)
REFIGERANT TYPE	CEM	R454B	R454B	R454B	R454B	R454B	R454B	EII TED	TYPE		MERV-15	MERV-15
	CFM	375	600	800	925	1150	1600	FILTER	NO./SIZE		9 / 24x24x4	9 / 24x24x4
FAN PERFORMANCE	E.S.P. (IN. W.G.) MOTOR HP	0.4	0.5	0.5	0.4	0.5	0.5		VOLTS/PH/Hz		9 / 24x24x4 460/3/60	9 / 24x24x4 460/3/60
		0.25	0.33	0.5	0.5	0.75	0.75	ELECTRICAL DATA	FLA / MCA / MOP		72 / 78 / 100	79 / 86 / 110
CONDENCODIMATED	GPM	2.5	3.8	5	6.25	7.7	9.5	DIMENSIONAL DATA	LxWxH (IN.)		76.5x82x92	76.5x82x92
CONDENSOR WATER	P.D. (FT. OF H2O)	5.6	7.4	7.4	5.5	8.7	7.6		WEIGHT (LBS)		6,800	6,800
	WORKING PRESSURE (PSIG)	07/00	07/00	07/00	07/00	07/00	07/00	PROVIDE: 1. HOT GAS BYPASS.				
1	EWT/LWT (°F)	87/99	87/99	87/99	87/99	87/99	87/99	2. 5-YEAR COMPRESS				
	EAT (°F DB/WB)	80/67	80/67	80/67	80/67	80/67	80/67	3. FACTORY MOUNTED VFD 4. WATERSIDE ECONOMIZER 3. EXTENDED RANGE UNIT.				
COOLING PERFORMANCE	TOTAL COOLING CAPACITY (BTU)	11.1	18.1	22.5	28.6	36.7	46					
	SENSIBLE COOLING CAPACITY (BTUH)	8.7	13.8	17.9	21.6	26.7	33.9	4. EXTRA QUIET SOUN 5. FIRE ALARM SHUTE 6. VIBRATION ISOLATI	OOWN TERMINAL.			
	EER	-	-	-	-	-	-	7. AUXILIARY DRIP PA	N, LEAK DETECTOR A			
COMPRESSOR	QUANTITY	1	1	1	1	1	1	8. MICROPROCESSER 9. BMS INTEGRATION		RAPHIIC DISP	LAY.	
COM RECOOK	RLA(EA.)	3.5	7.6	3.8	4.5	5.8	6.4	7. DIVIS INTEGRATION	CAILD.			
ELECTRICAL DATA	VOLTS/PH/Hz	265/1/60	265/1/60	460/3/60	460/3/60	460/3/60	460/3/60					
ELECTRICAL DATA	FLA/MCA MOCP	5.8/6.7/15	10.2/12.1/15	5.9/6.9/15	6.6/7.7/15	9/10.4/15	9.6/11.2/15					
DIMENSIONAL DATA	LxWxH (IN.)	33x19x11.5	44x21.5x17	44x21.5x18	44x21.5x18	47x21.5x19	54x24x21					
	WEIGHT (LBS)	114	155	183.2	187.4	205.2	213.2					
PROVIDE: 1. UNIT CAPABLE OF CO 2. HOT GAS BYPASS. 3. 5-YEAR COMPRESSOR 4. EYTENDED BANGE UN									SCH		ME HEAT E - AMENITY	
5. EXTRA QUIET SOUND									UNIT NO.			HX-15-1
6. ECM MOTORS.									SERVICE			WCCU
7. FIRE ALARM SHUTDON									LOCATION			15TH FLR MER

WATER COOLED COMPUTER ROOM AC UNIT SCHEDULE - AMENITY FLOORS

UNIT NO.		CRAC-13-1 CRAC-14-1 CRAC-15-1 CRAC-16-1	CRAC-14-2 CRAC-15-2 CRAC-16-2		
SERVICE		IDF	SEE PLANS		
LOCATION		IDF	CEILING MOUNTED		
MANUFACTURER		ABOVE AIR	FLORIDA HEAT PUMF		
MODEL NO.		MCW-005S1-7-00000- EC-00-UF2-XS	CL036-HZ		
EER					
	CFM	1000	1200		
FAN	E.S.P. (IN. W.G.)		0.5	0.5	
	MOTOR KW or HP		1 KW	0.75 HP	
	CFM		1000	1200	
	ENT'G AIR	DB°F	75	75	
DX COIL	ENT G AIR	WB°F	62.5	62.5	
	CADACITY MDII	TOTAL	25.4	33.7	
	CAPACITY MBH	SENSIBLE	20.7	23.2	
	E.W.T. (°F)	'	87	87	
	L.W.T. (°F)		99	99	
CONDENSOR	GPM		5.2	7.3	
	P.D.(FT. OF H2O		9.6	7.9	
	WORKING PRESSU	IRE (PSI)			
	QUANTITY		1 / SCROLL	1 / SCROLL	
COMPRESSOR	REFIGERANT		R-410A	R-454B	
	RLA (EA.)		2	12.2	
CII TED	TYPE		MERV-8	MERV-8	
FILTER	NO./SIZE		(1)/18X24X2	(1)/19x27x2	
	TYPE		-	-	
HUMIDIFER	KW		-	-	
	LBS/HR		-	-	
ELECTRIC REHEAT	NO. OF STAGES		-	-	
ELECTRIC REMEAT	KW		-	-	
	VOLTS/PH/Hz		277/1/60	208/3/60	
ELECTRICAL DATA	FLA/MCA/MFS		13.3 / 15.7 / 25	18.2 / 21.2 / 30	
DIMENCIONAL DATA	LxWxH (IN.)		24x24x76	47x21.5x19	
DIMENSIONAL DATA	WEIGHT (LBS)		480	205.2	

1. HOT GAS BYPASS. 2. 5-YEAR COMPRESSOR WARRANTY. 3. EXTENDED RANGE UNIT AND LOW ENTERING WATER KIT. 4. EXTRA QUIET SOUND PACKAGE.

5. FIRE ALARM SHUTDOWN TERMINAL. 6. VIBRATION ISOLATION. . AUXILIARY DRIP PAN, LEAK DETECTOR AND CONDENSATE PUMP.

8. MICROPROCESSER CONTROLLER WITH GRAPHIIC DISPLAY.

9. BMS INTEGRATION CARD.

HEXONIC MANUFACTURER MODEL NO. LB60-DOL110H-1 34.18 GPM EWT/LWT (°F) 89/101 HOT SIDE PRESS. DROP (PSI) 4 WORKING PRESSURE (PSIG) 43.5 34.18 GPM EWT/LWT (°F) 87/99 COLD SIZE PRESS. DROP (PSI) 2 WORKING PRESSURE (PSIG) 43.5 CONNECTION SIZES (IN.) 2-1/2" 2-1/2" 95.7 HEAT TRANSFER AREA (SQ.FT.)

84.9 WEIGHT (LB.) REMARKS: - SEE BOOK SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

DIMENSIONAL DATA

PROJECT NOTES:

1. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY

CONSERVATION CODE 2. BOOK SPECIFICATION IS PART OF THIS CONTRACT

APPLICABLE CODES."

3. "THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH

WATER COOLED MAKE-UP AIR UNIT SCHEDULE

460 / 3 / 60

107 / 111 / 150

98x103x93

8,600

MUA-14-1 SERVICE 14TH FLOOR KITCHEN LOCATION 14TH FLOOR MER MANUFACTURER MAMMOTH MODEL NO. VVX-684-GEL QUANTITY CFM 11,000 E.S.P. (IN. W.G.) MOTOR HP (EA.) 5.5 QUANTITY / CIRCUITS (EA.) 1 / 4.0 MAX. FACE VEL. (FPM) 338 95 °F DB ENT'G AIR °F WB 75 °F DB 52.6 LVG. AIR °F WB 52.1 822.4 TOTAL CAPACITY MBH SENSIBLE 508.4 MIN. NO. OF ROWS (EA.) 6 EWT / LWT (°F) 87 / 99 CONDENSER PRESS. DROP (FT. OF H2O) 6.8 WORKING PRESSURE (PSI) SCROLL COMPRESSOR 14.7 FLA (EA.) QUANTITY ROWS / CIRCUITS 1 / 4.0 ENT'G AIR HOT GAS REHEAT LVG. AIR HEATING CAPACITY (MBH) EDH-14-1 EAT / LAT (°F) 10 DEG / 65 DEG HEEATING COIL CAPACITY (MBH) 656.4 (ELECTRIC, DUCT 192.4 MOUNTED) VOLTS/PH/Hz 460 / 3 / 60 FLA / MCA / MOP 242 / 303 / 350 MERV-8 (PRE) MERV-15 15 / 20X20X4

DIMENSIONAL DATA LXWXH (IN.) PROVIDE: HOT GAS BYPASS. 2. 5-YEAR COMPRESSOR WARRANTY. 3. EXTENDED RANGE UNIT. 4. EXTRA QUIET SOUND PACKAGE. 5. FIRE ALARM SHUTDOWN TERMINAL 6. VIBRATION ISOLATION.

ELECTRICAL DATA

7. AUXILIARY DRIP PAN, LEAK DETECTOR AND CONDENSATE PUMP. 8. MICROPROCESSER CONTROLLER WITH GRAPHIIC DISPLAY. 9. PROVIDE DDC CONTROLLER WITH BAC-NET INTERFACE TO INTEGRATE WITH BMS AND KITCHEN

VOLTS/PH/Hz

FLA / MCA / MOP

EXHAUST HOOD CONTROL SYSTEM. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERCONNECTING WIRING. 10. REMOTE MOUNT ELECTRIC HEATER CONTROL PANEL WITHIN MER. 11. WATERSIDE ECONOMIZER

- PROVIDE CROSS-FLOW CONFIGURATION FOR ALL PIPING CONNECTIONS

10x10.25x18.5

ELECTROSTATIC PRECIPITATOR SCHEDULE SERVICE KITCHEN LOCATION MER HALTON MANUFACTURER MODEL NO. PST-18-ESP-ESP-EF-OCUV-OCC-B UNIT ESP (IN W.G.) MANUFACTURER HALTON MODEL NO. ATZAF 22-22-FF-T2 DWDI 16,000 TOTAL STATIC PRESSURE (IN W.G.) 5.99" SECTION 1800 CUSTOM - SIDE BLAST CONFIGURATION NUMBER OF PASSES ELECTROSTATIC | CELLS PER PASS PRECIPITATOR CELL DIMENSIONS - LxWxH (IN) 24x24x12, 24x12x12 SECTION PRESSURE DROP (IN W.G.) 0.2" NUMBER OF FILTERS 9 (8-POCKET FULL DEPTH) PREFILTER DIMENSIONS (IN) 24x24x2 PREFILTERS PRESSURE DROP (IN W.G.) 0.25" NUMBER OF FILTERS 72 (FULL SIZE) CARBON PREFILTER DIMENSIONS (IN) 24x24x2 FILTERS PRESSURE DROP (IN W.G.) 0.25" HOT WATER FLOW RATE (GPM) 69.3 HW PRESSURE (PSIG) 45 IN-PLACE HW FLOW PER PASS (GAL) CLEANIING 277.2 SYSTEM DETERGENT PER PASS (GAL) 2.78 DETERGENT TANK CAPACITY (GAL) ELECTRICAL DATA VOLTS/PH/HZ 460/3/60 FLA / MCA / MOCP 34 / 42.5 / 76.5 ELECTRICAL DATA VOLTS/PH/HZ 120/1/60 (CONTROL) FLA ELECTRICAL DATA (DETERGENT 7.2 CABINET) LxWxH (IN.) 252x75x96 DIMENSIONAL DATA WEIGHT (LB) 10211 PROVIDE: 1. ALL COMPONENTS ON MANUFACTURER PROVIDED SKID.

2. DETERGENT TANK AS REQUIRED FOR WASH-DOWN OPERATION. DETERGENT ONLY CONSUMED ONCE PER WEEK. 3. FACTORY MOUNTED AND MANUFACTURER PROVIDED VFD

4. PROVIDE DDC CONTROLLER WITH BAC-NET INTERFACE TO INTEGRATE WITH BMS AND KITCHEN EXHAUST HOOD CONTROL SYSTEM. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERCONNECTING WIRING. 5. ANSUL TANK AND PANEL FOR INTEGRATION WITH KITCHEN ANSUL SYSTEM. 6. DISCONNECT SWITCH

8. BREAKAPART CONSTRUCTION.

NO SCALE 7. VIBRATION ISOLATION PER SCHEDULE AND SPECIFICATIONS

DRAWING NO. _____ OF © 2024 Gensler

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Trinity CERAMI

LIGHTING WORKSHOP

Lighting Workshop Trinity Consultants | Cerami 20 Jay Street Brooklyn, NY 11201

1001 Ave of the Americas, 4th New York, NY 10018 Tel 212.370.1776

RG ROMANO

Romano Gatland 1 Huntington Quad Suite 2C03 Melville, NY 11747 Tel 631.226.7700

Description 1 11/08/2024 ISSUED FOR 100% DD 2 01/17/2025 ISSUED FOR 25% CD

4 03/28/2025 ISSUED FOR 75% CD 5 04/16/2025 ISSUED FOR 90% CD 6 05/02/2025 ISSUE FOR BID/LL REVIEW

3 02/12/2025 ISSUED FOR 50% CD

Seal / Signature

Paul, Weiss - 1345 AoA Relocation

Project Number 877207

Description

MECHANICAL SCHEDULES II

PM:

DOB NOW JOB #