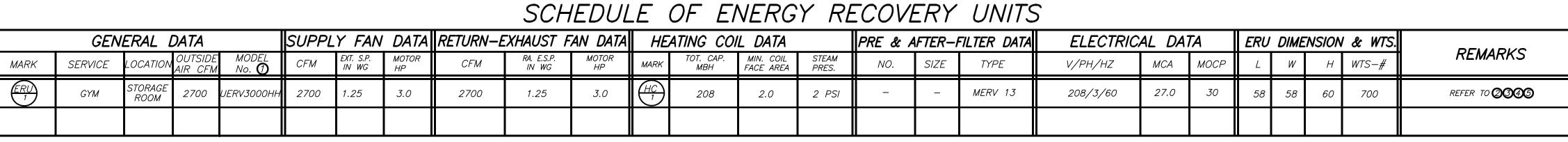


OUTDOOR HVAC

UNIT SECURITY ENCLOSURE



N \bigcirc AS MANUFACTURED BY "ENERGY WALL"

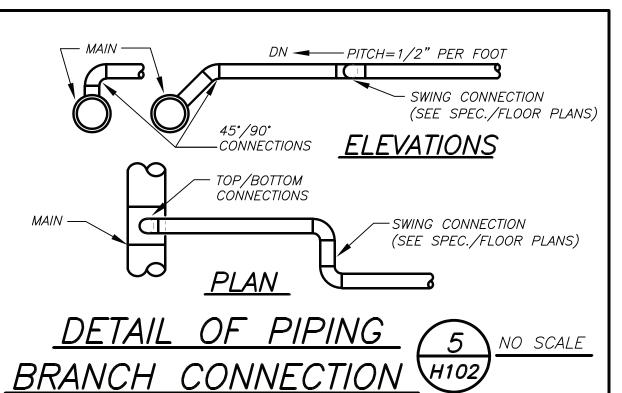
(2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

(3) PROVIDE FACTORY INSTALLED VARIABLE SPEED CONTROL, MOTORIZED SUPPLY/EXHAUST DAMPERS (FIELD INSTALLED), DAMPER END SWITCHES, RE-CIRCULATION DRY CONTACTS, LOW TEMP LIMIT, DIRTY FILTER SWITCH, MERV 13 FILTERS, BACNET COMPATIBLE CONTROLLER, DUCT MOUNTED STEAM HEATING COIL, SUPPLY/RETURN TEMPERATURE SENSORS, REMOTE WALL MOUNTED (PLATE TYPE) TEMPERATURE SENSORS, DDC CONTROLLER TIED INTO DISTRICT ATC.

4 UNIT SHALL BE DELIVERED IN MULTIPLE SECTIONS AND ASSEMBLED IN ROOM BY FACTORY TRAINED REPRESENTATIVE. UNIT SHALL BE INSTALLED ON CONCRETE HOUSE KEEPING PAD. PROVIDE NEOPRENE WAFFLE PAD VIBRATION ISOLATORS AT BASE OF UNIT.

5 DESIGN AIR CONDITIONS: SUMMER OA (95°F/75°F)

WINTER OA (O°F/O°F) RA (70°F/53°F)



	SCHEDULE OF DUCTLESS SPLIT SYSTEM AND VRF AIR CONDITIONING UNITS																	
	INDOOR UNIT INFORMATION								OUTDOOR CONDENSING UNIT INFORMATION									
GEN	ERAL DATA	MODEL	SUPF	PLY FA	N DATA	TOTAL CAPACITY	DIME	ENSIO	N/WE	IGHT	GENE	RAL INFO.			SSOR DATA		UNIT	
MARI	SERVICE	No. ①	CFM HIGH	UNIT MCA	ELECTRIC SERVICE	COOLING/HEATING kBTU/HR	W (IN.)	D (IN.)	H (IN.)	LBS	MARK	MODEL No. ①	QTY.	MCAMO	OCP ELECTRIC SERVICE	DIMENSIONS (IN)	WEIGHT (LBS)	REMARKS
HP 1	DATA CLOSET	ARNU243SKA4	450	0.52	208/1/60	24,200/25,600	47	11	14	35	CU 1	ARUN024GSS4	1	20.0 3	0.0 208/1/60	38Lx16Wx33H	1 <i>7</i> 5	REFER TO 23456

N (1) AS MANUFACTURED BY "LG".

0 (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

- BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A, EER 12.5/SEER 20.5/HSPF10.3.
- S $\stackrel{ ext{(4)}}{ ext{PROVIDE}}$ UNIT WITH MOUNTING HARDWARE, LOW AMBIENT CONTROLS, DRAIN PAN HEATER, BASE PAN/CRANKCASE HEATER, DRY CONTACTS FOR BMS CONTROL, HARD WIRED PROGRAMMABLE THERMOSTAT.
- (5) PROVIDE PIPING ENCLOSURES TO CONCEAL ALL PIPING AND WIRING IN OCCUPIED AREAS.
- (6) FOR INDOOR UNIT PROVIDE WALL MOUNTING HARDWARE, DISCONNECT AND HARDWIRED REMOTE WALL MOUNTED CONTROLLER/THERMOSTAT.

GALVANIZED UNIVERSAL SIDE I— BEAM CLAMP (EQUAL TO ELCEN CO.) THREADED ROD (RESTORE CONC. ENCASEMENT FINANCE GALVANIZED UNIVERSAL SIDE I— BEAM CLAMP (EQUAL TO ELCEN CO.) THREADED ROD
SPEC.) AFTER (REFER TO INSTALLATION SPEC.)
SMALL LOADS(UPTO 390#) LARGE LOADS (UPTO 1000#)

SMALL LUADS(UPIO SYU#) LARGE LUADS (UPIO 1000#)

PIPE HANGER SUPPORT DETAIL



SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES									
	A	B	0	D	E	F	G	H	
ROOM NAME/NUMBER	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000SQ.FT)	THE TEOM TOTAL	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	I LOW NAIL	NUMBER PEOPLE (AxB)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (FxC)+(AxD)=CFM	DISTRIBUTION	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM
GYM 4	2710	100	7.5	0.06	_	271	2135	0.8	2668

T EXHAUST AIR FLOW RATE O.7CFM/SQ.FT. SCIENCE CLASSROOM-PEOPLE DENSITY 25PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW 5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.12CFM/SQ.FT.; RATE 10CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.18CFM/SQ.FT.;

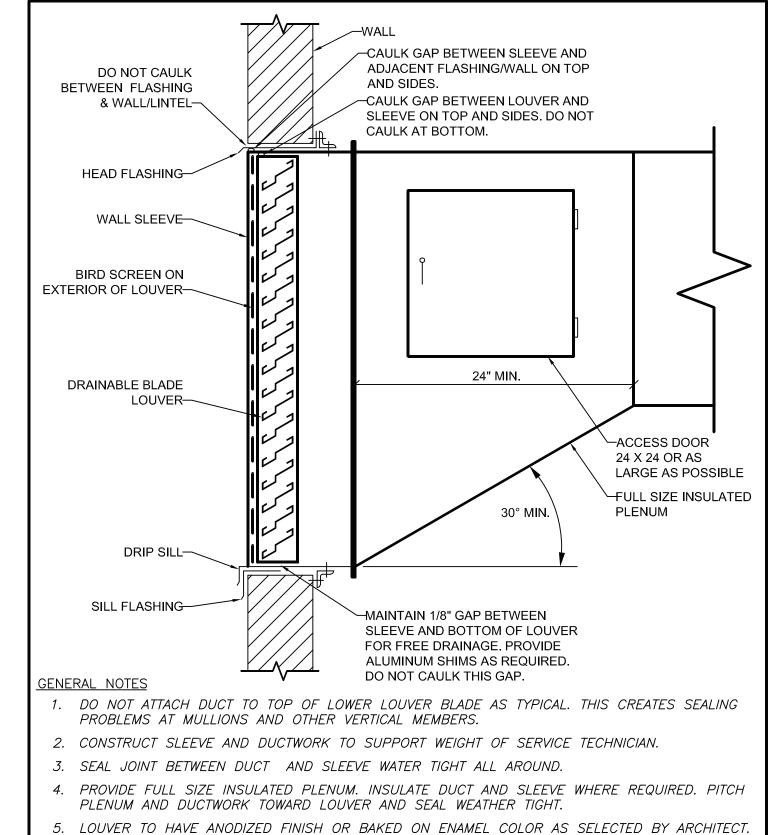
N <u>ART CLASSROOM</u>—PEOPLE DENSITY 20PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW

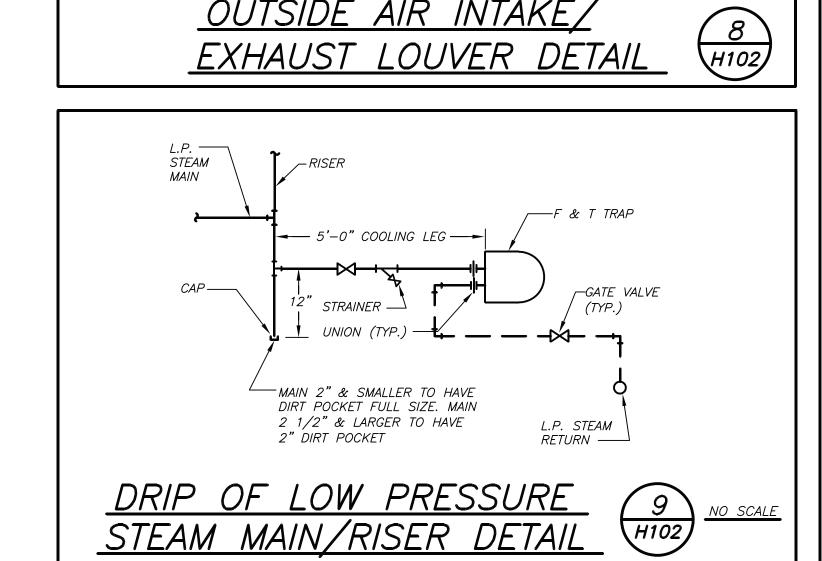
EXHAUST AIR FLOW RATE 1.0CFM/SQ.FT. TYPICAL CLASSROOM-PEOPLE DENSITY 35PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 10CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.12CFM/SQ.FT.; AUDITORIUM - PEOPLE DENSITY 150PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.06CFM/SQ.FT.; MULTIUSE - PEOPLE DENSITY 100PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 7.5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.06CFM/SQ.FT.;

TYPICAL OFFICES - PEOPLE DENSITY 5PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 10CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.18CFM/SQ.FT.; RATE 5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.06CFM/SQ.FT., LIBRARY —PEOPLE DENSITY 10PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE <u>CAFETERIA/LOUNGE</u>—PEOPLE DENSITY 100PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW THAT THE 150 FOOT/MINUTE SUPPLY AIR RATE 7.5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.18CFM/SQ.FT.; CONFERENCE ROOM-PEOPLE DENSITY 50PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW

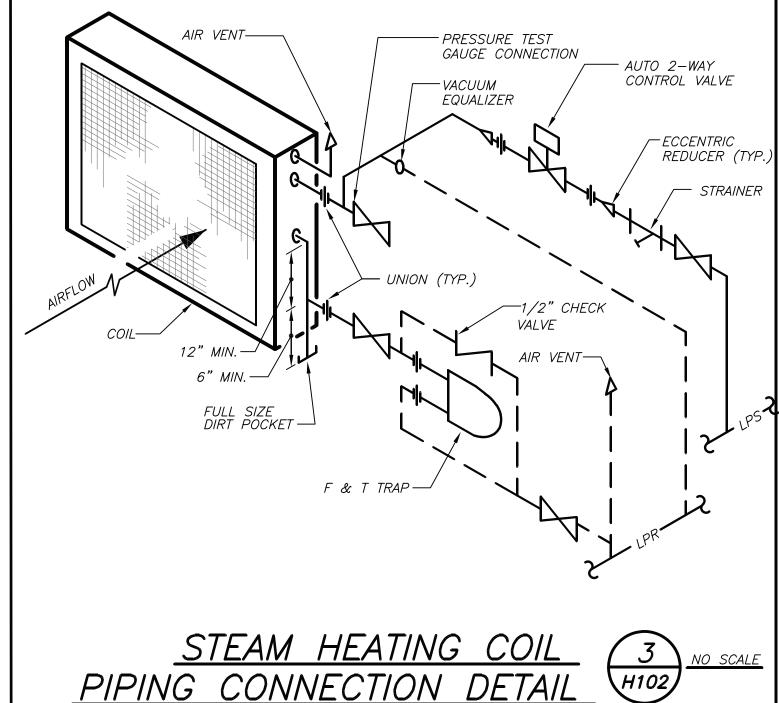
RATE 5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.06CFM/SQ.FT.; GYM - AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.30CFM/SQ.FT.; CORRIDORS - AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.06CFM/SQ.FT.

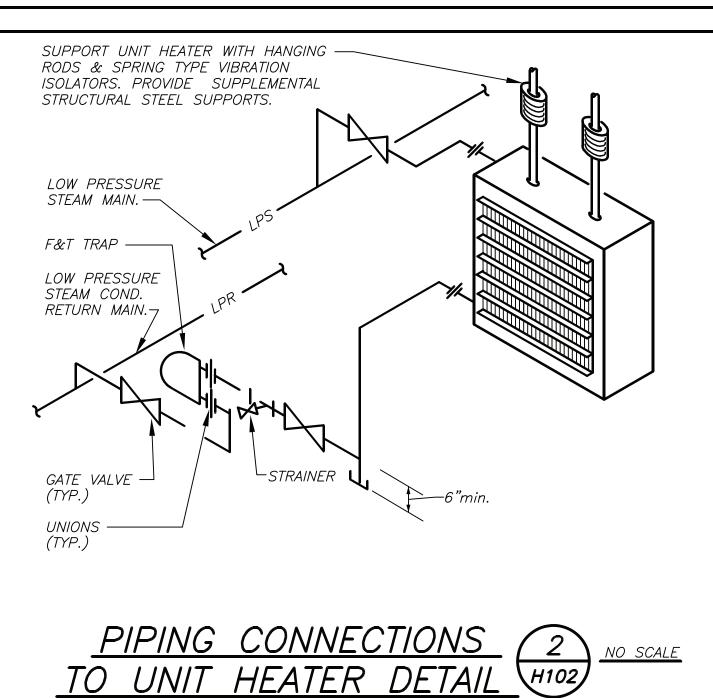
<u> CONE AIR DISTRIBUTION EFFECTIVENESS</u> ACTOR-CEILING SUPPLY AND RETURN WARM IR 0.8; 1.0 SHALL BE PERMITTED IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 15'1 ABOVE SPACE TEMPERATURE AND PROVIDED REACHES WITHIN 4-1/2 FEET OF FLOOR. <u>FACTOR</u>—CEILING OR FLOOR SUPPLY COOL AIR D.; CEILING OR FLOOR SUPPLY WARM AIR AND FLOOR RETURN 1.0.

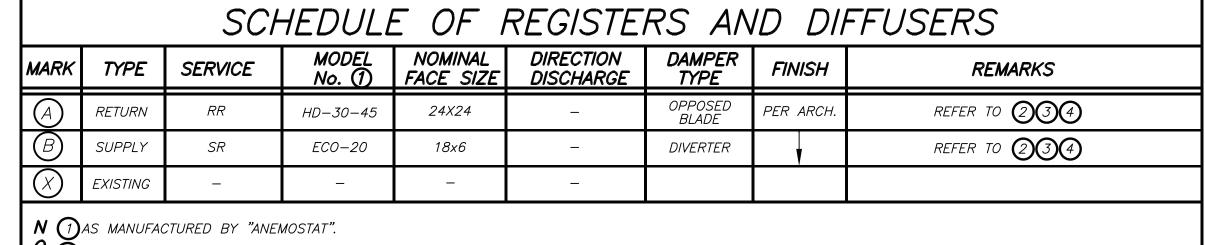




OUTSIDE AIR INTAKE/







O (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

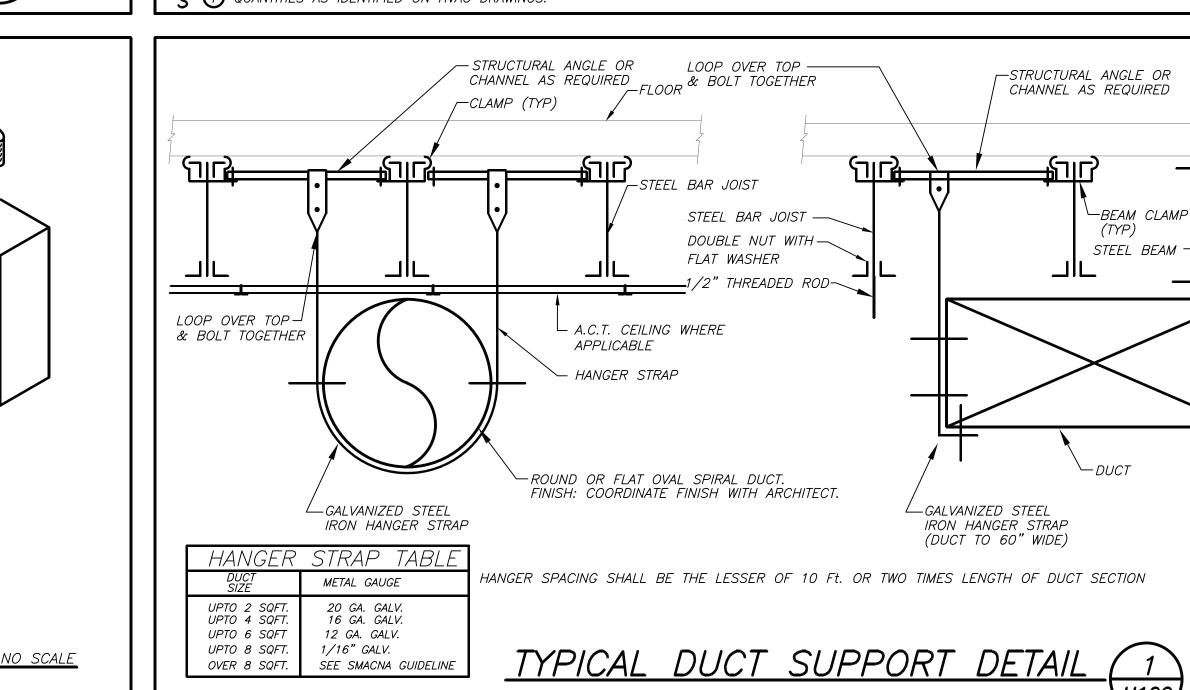
- (3) AIR OUTLET TO BE OF STEEL CONSTRUCTION.

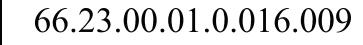
5 (4) COORDINATE TRIM TYPE AND COLOR WITH ARCHITECT.

		NECK S EXCEE		R CFM l fpm)	RANGE			RN NEO			CFM F om)	RANGE	
50 TO 135	100 TO 245	246 TO 380	381 TO 550	551 TO 750	751 TO 860	50 TO 149	150 TO 249	250 TO 399	400 TO 599	600 TO 799	800 TO 1099	1100 TO 1199	1200 TO 2399
6"ø	8"ø	10"ø	12"ø	14"ø	15"ø	6x6	8X8	10X10	12X12	14X14	16X16	18X18	24X24

SCHEDULE OF UNIT HEATER									
MARK	MODEL No. 🕥	CA BTU/HR	APACITY DATA STEAM PRESURE	MOTOR WATTS	ELECTRIC SERVICE	PHYSICAL LxWxH	DATA WEIGHT (LBS)	REMARKS	
UH A	HS-24	17400	2PSIG	16	120/1/60	15X10X18	50	REFER TO (1)(2)(3)(4)	

N (1) AS MANUFACTURED BY "STERLING". O D INSTALL PER MANUFACTURER'S RECOMMENDATIONS 'E 3 350 CFM @1350 RPM. 5 (4) QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.





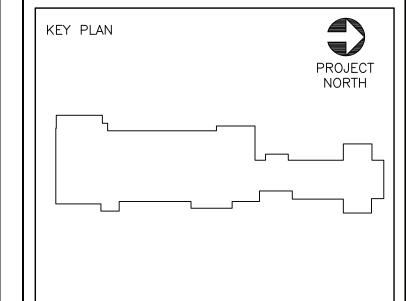
YONKERS PROJECT NUMBER 10845

PROJECT NAME YONKERS PUBLIC SCHOOLS

PS 16 - YONKERS 759 NORTH BROADWAY YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE







IVIL ENGINEER CONSULTANT INSITE





ADELAIDE ENVIRONMENTAL HEALTH ASSOC 511 RT 22, BREWSTER, NY 10509



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7			
	REV. NO.	DATE	DESCRIPTION
		01/23/19	SED FOR BUILDING PERMIT
		09/15/19	ISSUED FOR BID
٥		11/16/20	ISSUED FOR BID

SCALE: AS SHOWN DATE: 1/23/19 CHECKED BY: C.G. DRAWN BY: K.C.

DRAWING TITLE

SCHEDULES AND **DETAILS**

SHEET NO.

H102.00