PRAWING CODE	BASIS OF DESIGN	BASIS OF DESIGN MODEL	ALTERNATE	SYSTEM TYPE	COOLIN	G (AHRI STANDARD)	H	HEATING (AHRI STAN	DARD)	INDOOR UNIT		AUXILIARY		ELECTRICAL					WEIGHT (LB	S.) NOTES	NOTES	ACCESSORIES	
DU/ODU)	MANUFACTURER	(IDU/ODU)	APPROVED MANUFACTURERS					TOTAL EFFICIEN	ICY	SUPPLY AIRFLOW		LOL (IIV. LUCAT	ELECTRIC HEATER (KW)	INDOOR UNIT		C	UTDOOR UNIT	-	-	1 1	OUTDOOR		
			147 11 10 10 10 12 10		(MBH)	(MBH)		MBH)	-	(CFM)	AIRFLOW (CFM)	WG.)	1127 (1 C/1 (1 (1 (1 / 1))	(V/PH/HZ)	(MCA) (MOC	P) (\	//PH/HZ)	(MCA)	(MOCP)	UNIT	UNIT		
X)AHU01 / (X)HP01	-		-	HEAT PUMP	84.9	68.5 EER	11.3	79.1 COP	3	.3 2,700	270	0.5	15.	0 460/3/60	26.0	30	460/3/60	18.0	30	375	350	10	٥
X)AHU02 / (X)HP02	TRANE	TEM4A0C36S41 / 4TWA4036A4	N/A	HEAT PUMP	-	-	-		-	- 1,080	200	0.5		-	-	-	-		- -	-	-	6	٥
X)AHU03 / (X)HP03	-	• • • • • • • • • • • • • • • • • • • •	-	HEAT PUMP	-		-	-	-	- 7,200	1,440	0.8		-	-	-	-	-		-		7,9	ə
X)AHU04 / (X)HP04	-	•	-	HEAT PUMP	-		-	-	-	- 7,200	1,440	0.8			-	-	•		-	-	- 1	7,9	э
X)AHU06 / (X)HP06	-	•	-	HEAT PUMP	119.3	92.4 EER	11.3	118.1 COP	3	.3 3,600	360	0.5	26.	0 460/3/60	42.0	45	460/3/60	25.0	40	450	475	10	o l
X)AHU13 / (X)HP13	-	-		HEAT PUMP	34.5	24.7 SEER	15.0	31.4 HSPF	8.	.5 1,080	200	0.5	4.	8 460/3/60	9.8	15	460/3/60	6.0	15	150	240	10	J .
X)AHU14 / (X)HP14	· · ·	· .	•	HEAT PUMP	34.5	24.7 SEER	15.0	31.4 HSPF	8.	.5 1,080	200	0.5	4.	8 460/3/60	9.8	15	460/3/60	6.0	15	150	240	10	J .
X)AHU15 / (X)HP15	-	•	-	HEAT PUMP	46.7	33.3 SEER	14.5	41.5 HSPF	8.	.2 1,440	290	0.5	7.	7 460/3/60	15.3	20	460/3/60	8.0	15	200	300	10	υ l
X)AHU16 / (X)HP16	•	-	-	HEAT PUMP	84.9	68.5 EER	11.3	79.1 COP	3.	.3 2,700	540	0.5	15.	0 460/3/60	26.0	30	460/3/60	18.0	30	340	350	10	J
AHU17 / HP17	TRANE	GAM5B0B36M31 / 4TWA4036A4	YORK, CARRIER	HEAT PUMP	34.5	24.7 SEER	15.0	31.4 HSPF	8.	.5 1,080	200	0.5	4.	8 460/3/60	9.8	15	460/3/60	6.0	15	150	240	1,2,3,4,8	8 A,B,
X)AHU18 / (X)HP18	-	-	-	HEAT PUMP	56.2	41.9 SEER	14.5	52.5 HSPF	8.	5 1,800	360	0.5	9.	6 460/3/60	19.1	20	460/3/60	9.0	15	200	300	7	7
AHU19 / HP19	TRANE	GAM5B0B36M31 / 4TWA4036A4	YORK, CARRIER	HEAT PUMP	34.5	24.7 SEER	15.0	31.4 HSPF	8.	5 1,080	200	0.5	4.	8 460/3/60	9.8	15	460/3/60	6.0	15	150	240	1,2,3,4,8	8 A,B,
AHU20 / HP20	TRANE	GAM5B0B36M31 / 4TWA4036A4	YORK, CARRIER	HEAT PUMP	34.5	24.7 SEER	15.0	31.4 HSPF	8.	5 1,080	200	0.5	4.8	8 460/3/60	9.8	15	460/3/60	6.0	15	150	240	1,2,3,4,8	8 A,B,
X)AHU22 / (X)HP22	-	-	-	HEAT PUMP	46.7	33.3 SEER	14.5	41.5 HSPF	8.	2 1,440	290	0.5	7.	7 460/3/60	15.3	20	460/3/60	8.0	15	200	300	3	3
AHU23 / HP23	TRANE	GAM5B0B36M31 / 4TWA4036A4	YORK, CARRIER	HEAT PUMP	34.5	24.7 SEER	15.0	31.4 HSPF	8.	5 1,080	200	0.5	4.8	8 460/3/60	9.8	15	460/3/60	6.0	15	150	240	1,2,3,4,8	8 A,B,
AHU24 / HP24	TRANE	GAM5B0B36M31 / 4TWA4036A4	YORK, CARRIER	HEAT PUMP	34.5	24.7 SEER	15.0	31.4 HSPF	8.	5 1,080	200	0.5	4.8	8 460/3/60	9.8	15	460/3/60	6.0	15	150	240	1,2,3,4,8	8 A,B,
AHU25 / HP25	TRANE	GAM5B0B36M31 / 4TWA4036A4	YORK, CARRIER	HEAT PUMP	34.5	24.7 SEER	15.0	31.4 HSPF	8.	5 1,080	200	0.5	4.8	8 460/3/60	9.8	15	460/3/60	6.0	15	150	240	1,2,3,4,8	8 A,B,
AHU26 / HP26	TRANE	GAM5B0B36M31 / 4TWA4036A4	YORK, CARRIER	HEAT PUMP	34.5	24.7 SEER	15.0	31.4 HSPF	8.	5 1,080	200	0.5	4.8	8 460/3/60	9.8	15	460/3/60	6.0	15	150	240	1,2,3,4,8	8 A,B,
AHU27 / HP27	TRANE	GAM5B0B36M31 / 4TWA4036A4	YORK, CARRIER	HEAT PUMP	34.5	24.7 SEER	15.0	31.4 HSPF	8.	5 1,080	200	0.5	4.8	8 460/3/60	9.8	15	460/3/60	6.0	15	150	240	1,2,3,4,8	8 A,B,
IOTES:	1. REFER TO SPECIFIC	CATION SECTION 238126 - SPLIT-SYS	TEM HEAT PUMPS FOR I	FURTHER INFORMA	TION.										-	-							-
	2. MOUNT OUTDOOR	UNIT ON CONCRETE HOUSEKEEPING	PAD.																				
	3. CONTRACTOR SHA	LL PROVIDE THERMOSTAT/HUMIDIST	TAT AND SES DEHUMIDI	FICATION MODULE	CONFIRM	PROPER OPERATION WIT	TH EQUIPME	ENT MANUFACTURER	₹.														
	4. AUXILIARY ELECTR	IC HEATER VOLTAGE IS 460/3/60.																					
	5. NOT USED.																						

8. SCHEDULED COOLING CAPACITY IS NET.

A. LOW AMBIENT COOLING OPERATION TO 40F.

B. E-COATED COILS WITH HAIL GUARDS.

10. EXISTING SYSTEM SCHEDULED FOR REFERENCE ONLY.

C. SINGLE POINT POWER CONNECTION FOR INDOOR UNIT.

D. THERMOSTAT MODEL BAYSTAT152. THERMOSTAT TO CONNECT IN CONJUNCTION WITH SES DEHUMIFICATION MODULE.

9. BALANCE AIR HANDLER ONLY.

DUCTLESS	SPLIT SYSTE	M SCHEDULE					: -														
DRAWING CODE	MANUFACTURER	DESIGN MODEL	ROOM SERVED	SYSTEM TYPE	COOLING (AF	IRI STANDARI	D) HE	EATING (AHRI STANDAF	RD) INDO	OOR UNIT	ELECTRICAL		1 4 .			REFRIGERAN	NT PIPING	WEIGHT (L	_BS.)	NOTES	ACCESSORIES
(IDU/ODU)			100		1 1	FFICIENCY	ТО	OTAL (BTUH) EFFICIEN	ICY SUP	PLY AIRFLOW	POWER SUPPLY	1	OUTDOOF	UNIT		MAXIMUM	MAXIMUM HEIGHT	INDOOR	OUTDOOR		
					(BTUH)				(CFN	И)	(V/PH/HZ)	UNIT (MCA)	(V/PH/HZ)	(MCA)	(MOCP)	LENGTH (FT.)) DIFFERENTIAL (FT.)	UNIT	UNIT		
DAH05 / DHP05	MITSUBISHI ELECTRIC	PKA-A12HA7 / PUZ-A12NKA7	100F SOUND	HEAT PUMP	12,000 S	EER	20.8	14,000 HSPF	10.20	370	0 208/1	/60 1	.0 208/1/6	0 11	.0 1	5 1	00 10	00 29	9 9	3 1,2,	,3 A,B,0
NOTES:	1. REFER TO SPECIFICA	TION 238126.18 - SPLIT DUCTLES	SS SYSTEMS FOR FURTHER	INFORMATION.	-																
	2. MOUNT OUTDOOR UN	IIT ON CONCRETE HOUSEKEEPI	NG PAD.																		
	3. ELECTRICAL CONTRA	CTOR TO PROVIDE CONDUIT AN	ID CONDUCTOR FROM OUT	DOOR UNIT TO INDOO	RUNIT.																
ACCESSORIES:	A. WALL-MOUNT HAND-	HELD WIRELESS REMOTE.																			
	B. INDOOR UNIT POWER	RED CONDENSATE PUMP.																			
	C. SEACOAST COATING	PROTECTION ON OUTDOOR UNI	Т.																		

LOUVER S	CHEDULE		And Tanada and Angling Co.						. 4.					`			
DRAWING CODE	BASIS OF DESIGN	BASIS OF DESIGN	ALTERNATE APPROVED	TYPE	FRAME	DESCRIPTION		MATERIAL	LOUVER	SIZE (W x H)	SERVICE	AIRFLOW	PERFORMAN	CE RATINGS		NOTES	ACCESSORIES
	MANUFACTURER	MODEL	MANUFACTURERS		•				DEPTH			(CFM)	FREE AREA	S.P. LOSS	WATER PENETRATION	7	
							• .		(IN.)	(IN.)			(SF)	(IN.H20)	(OZ./SF)		
L01	RUSKIN	ELF6375DXH	GREENHECK, POTTORFF	FIXED	EXTERIOR FLANGE	HORIZONTAL, DRAINABLE-BLADE		ALUMINUM	6	24 X 24	INTAKE	600	1.90	0.02	-	1,2	Α
L02	RUSKIN	ELF6375DXH	GREENHECK, POTTORFF	FIXED	EXTERIOR FLANGE	HORIZONTAL, DRAINABLE-BLADE		ALUMINUM	6	16 X 16	EXHAUST	250	0.77	0.01	-	1,2	Α
NOTES:	REFER TO SPECI	FICATION SECTION 08	119 - FIXED LOUVERS FOR FURT	HER INFORMATION	I.												
	2. FINISH AS SELEC	TED BY ARCHITECT FF	ROM MANUFACTURER'S FULL RA	NGE OF COLOR AN	ID GLOSS.												
ACCESSORIES:	A. BIRD SCREENING	MATERIAL TO MATC	H LOUVER MATERIAL).														

DRAWING CODE	BASIS OF DESIGN	BASIS OF DESIGN	ALTERNATE APPROVED	FAN TYPE	SERVICE	CAPACITIES				ELECTRICAL					SONES	WEIGHT		ACCESSORIES	
	MANUFACTURER	MODEL	MANUFACTURERS			AIRFLOW (CFM)	ESP (IN. WG.)	DRIVE ARRANGEMENT	FAN RPM	MOTOR RPM	MOTOR TYPE	MOTOR SIZE (W)(HP)	V/PH/HZ	FLA	МОСР	_	(LBS.)		
(X)F05	-	-	-		EXHAUST	70	0.38	DIRECT	 	 		<u> </u>	120/1/60	-				-	2
(X)F06	-	-	-	-	EXHAUST	300	0.25	DIRECT	-	<u> </u>		-	120/1/60	-				-	2
PV08	GREENHECK	SP-80-VG	TWIN CITY, PENNBARRY	CEILING-MOUNTED VENTILATORS	EXHAUST	70	0.25	DIRECT	935		ECM	6 W	120/1/60	0.1	15	0.6	2	5	1 A,B,C,D
(X)PV09	-	-	-	-	EXHAUST	470-570	0.38	DIRECT	-		-	.=	120/1/60	-				-	2
(X)PV10	-	-	-	-	EXHAUST	1,250	0.38	DIRECT	-			-	120/1/60	-				-	2
(X)PV11	-	-		- · · · · · · · · · · · · · · · · · · ·	EXHAUST	625	0.38	DIRECT	-			-	120/1/60	-				-	2
PV12	GREENHECK	SQ-80-VG	TWIN CITY, PENNBARRY	IN-LINE CENTRIFUGAL FANS	EXHAUST	250	0.38	DIRECT	1484		ECM	1/10 HP	120/1/60	2.6	15	6.8	5	0 1,	3
NOTES:		EXISTING, SHOWN FO	233423 - HVAC POWER VENTILA OR REFERENCE ONLY.	TORS FOR FURTHER INFORMATION.															
ACCESSORIES:	A. BIRDSCREEN. B. GRAVITY DAMPE	ER.										-							
	C. WALL CAP.D. 277V TO 120V TO	RANSFORMER.																	
	E. ON/OFF SWITCH	H WITH BUILT IN OCCU	UPANCY SENSOR LOCATED PE	R ELECTRICAL PLANS.															

			AND GRILLES						· .				
DRAWING CODE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN	ALTERNATE APPROVED MANUFACTURERS	TYPE	SERVICE	NECK SIZE	BRANCH	MODULE	MATERIAL	FINISH	MOUNTING	NOTES	ACCESSORIES
gr. d	WANDFACTURER	MODEL	MANUFACTURERS			(IN.)	CONN. SIZE (IN.)	SIZE (IN.)					
S1	PRICE	ASPD	METALAIRE, TITUS	PLAQUE SQUARE CEILING DIFFUSER	SUPPLY	6Ø	6Ø	24 X 24	ALUMINUM	WHITE	T-BAR	1,2	A
S2	PRICE	ASPD	METALAIRE, TITUS	PLAQUE SQUARE CEILING DIFFUSER	SUPPLY	8Ø	8Ø	24 X 24	ALUMINUM	WHITE	T-BAR	1,2	Α
S3	PRICE	ASPD	METALAIRE, TITUS	PLAQUE SQUARE CEILING DIFFUSER	SUPPLY	10Ø	10Ø	24 X 24	ALUMINUM	WHITE	T-BAR	1,2	Α
R1	PRICE	630	METALAIRE, TITUS	EGG CRATE GRILLE	RETURN	20 X 20	-	24 X 24	ALUMINUM	WHITE	T-BAR	1,2	Α
E1	PRICE	630	METALAIRE, TITUS	EGG CRATE GRILLE	EXHAUST	20 X 20	-	24 X 24	ALUMINUM	WHITE	T-BAR	1,2	Α
NOTES:	1. REFER TO SPEC	CIFICATION S	SECTION 233713 - DIFFUSER	S, REGISTERS, AND GRILLES FOR FURTHER INFOF	RMATION.								
	2. DUCT BRANCH	CONNECTIO	N SIZE TO BE EQUAL TO TH	E NECK SIZE OF DIFFUSER UNLESS NOTED OTHER	RWISE ON PLA	NS.							
ACCESSORIES:	A. VOLUME DAMPI	ER.						***********************	######################################		***************************************		

MECHANICAL DEMOLITION NOTES

THE MECHANICAL CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND LAYOUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL EQUIPMENT, DUCTWORK, SUPPORTS, CONTROLS, ACCESSORIES, ETC..., AND MECHANICAL ITEMS MADE OBSOLETE BY THESE ALTERATIONS AS SHOWN IN THE MECHANICAL DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY MECHANICAL WORK AS REQUIRED BY THE CONSTRUCTION OR AS DIRECTED BY THE OWNER OR THE ENGINEER. SURVEY THE AFFECTED AREAS BEFORE SUBMITTING A

SCHEDULING OF DEMOLITION - COORDINATE SCHEDULING OF MECHANICAL DEMOLITION WORK WITH THE OWNER AND GENERAL CONTRACTOR SO AS TO MINIMIZE DISRUPTION OF THE OWNER'S USE OF THE FACILITIES AND MAINTAIN THE CONSTRUCTION SEQUENCE OF THE GENERAL CONTRACTOR. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS CONCERNING PHASING AND SEQUENCE OF WORK.

EXISTING MECHANICAL SYSTEMS - VERIFY CONDITION OF EXISTING MECHANICAL SYSTEMS TO BE REUSED SO THAT COMPLETE, FULLY OPERATIONAL AND RELIABLE SYSTEMS ARE OBTAINED AT THE COMPLETION OF THE WORK. NOTIFY ARCHITECT/ENGINEER OF ANY SYSTEMS FOUND TO BE OF QUESTIONABLE CONDITION.

. ALL EXISTING MECHANICAL EQUIPMENT AND DEVICES SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.

5. DEMOLISHED MATERIALS - UNLESS SPECIFICALLY REQUESTED BY THE OWNER, ALL DEMOLISHED MECHANICAL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

S. CUTTING AND PATCHING - PERFORM CUTTING AND PATCHING FOR MECHANICAL WORK SO AS TO MINIMIZE DAMAGE TO CEILINGS, FLOORS AND WALLS. REFER TO ARCHITECTURAL DRAWINGS AND GENERAL SPECIFICATIONS SECTIONS FOR SPECIFIC RESPONSIBILITIES REGARDING CUTTING AND

THESE DRAWINGS ARE COMPILED BY THE ARCHITECT/ENGINEER FROM THE OWNER'S AS-BUILT RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL DUCTWORK, EQUIPMENT LOCATIONS, DIMENSIONS AND ALL FIELD CONDITIONS AFFECTING HIS WORK.

WHERE MECHANICAL SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL REMAIN OR BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. ADVISE THE ARCHITECT/ENGINEER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.

PROTECT ALL EXISTING LIFE SAFETY SYSTEMS, FIRE ALARM AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND ARCHITECT/ENGINEER IN WRITING OF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED MAINTAINING SERVICE.

0. SURVEY THE EFFECTED AREAS BEFORE SUBMITTING A BID AS ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEPICTED ON THE DRAWINGS AND SOME UNUSUAL CONDITIONS EXIST.

MECHANICAL SUMMARY MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT CLIMATE ZONE 3A - WARM/HUMID WINTER DRY BULB: SUMMER DRY BULB INTERIOR DESIGN CONDITIONS WINTER DRY BULB SUMMER DRY BULB 75°F 60% RH RELATIVE HUMIDITY 175 MBH RENOVATED BUILDING HEATING LOAD: RENOVATED BUILDING COOLING LOAD: 262 MBH MECHANICAL SPACING CONDITIONING SYSTEM SEE SCHEDULES UNITARY DESCRIPTION OF UNIT: SEE SCHEDULES SEE SCHEDULES HEATING EFFICIENCY: COOLING EFFICIENCY: SEE SCHEDULES SIZE CATEGORY OF UNIT: SEE SCHEDULES BOILER SIZE CATEGORY, IF OVERSIZED STATE REASON: SIZE CATEGORY, IF OVERSIZED STATE REASON:

LIST EQUIPMENT EFFICIENCIES:

AIR HANDLING UNIT NUMBER BITUH BRITISH THERMAL UNIT PER HOUR COOP COEFFICIENT OF PERFORMANCE FACTOR CUMBURER CONDENSING UNIT NUMBER DUCTLESS AIR HANDLING UNIT NUMBER DUCTLESS CONDENSING UNIT NUMBER CUMBURER COUMBURER	CFM	CUBIC FEET PER MINUTE
BRITISH THERMAL UNIT PER HOUR COP COEFFICIENT OF PERFORMANCE FACTOR CU# CONDENSING UNIT NUMBER DAHU# DUCTLESS AIR HANDLING UNIT NUMBER DEG. F DEGREES FAHRENHEIT DHP# DUCTLESS HEAT PUMP UNIT NUMBER E# EXHAUST GRILLE NUMBER E# EXHAUST GRILLE NUMBER E# EXHAUST GRILLE NUMBER E# EXHAUST FAN NUMBER E# EXHAUST FAN NUMBER E# EXHAUST FAN NUMBER FEET PER MINUTE HP HORSEPOWER HEAT PUMP UNIT NUMBER TH TRANSFER GRILLE NUMBER TH TRANSFER GRILLE NUMBER MICHAIN AND MICHAIN AND MICHAIN AND MICHAIN	AH#	
COP COEFFICIENT OF PERFORMANCE FACTOR CU# CONDENSING UNIT NUMBER DAHU# DUCTLESS AIR HANDLING UNIT NUMBER DOLD DUCTLESS CONDENSING UNIT NUMBER DEGE, F DEGREES FAHRENHEIT DHP# DUCTLESS HEAT PUMP UNIT NUMBER ESE, EXHAUST GRILLE NUMBER ESP EXTERNAL STATIC PRESSURE EXHAUST FAN NUMBER ELA FULL LOAD AMPS FEET PER MINUTE HORSEPOWER HEAT PUMP UNIT NUMBER TI# TRANSFER GRILLE NUMBER TI# TRANSFER GRILLE NUMBER TI# TRANSFER GRILLE NUMBER TIM TRANSFER GRILLE NUMBER TIM TRANSFER GRILLE NUMBER TIM TRANSFER GRILLE NUMBER TO UNIDOOR UNIT N. NICHES TO DU NIDOOR UNIT N. NICHES TO DU NIDOOR UNIT TO DU NICHES TO DU NICHES TO DU NICHES TO DU NICHES TO DOU OUTDOOR UNIT TO DOU OUTDOOR UNIT TO DOU OUTDOOR UNIT TO DOU OUTDOOR UNIT TO THE RETURN GRILLE NUMBER TO DOU OUTDOOR UNIT TO THE RETURN GRILLE NUMBER TO DOU OUTDOOR UNIT TO THE RETURN GRILLE NUMBER TO DOU OUTDOOR UNIT TO THE RETURN GRILLE NUMBER TO SEER SEASONAL ENERGY EFFICIENCY RATIO TO SEER SEASONAL ENERGY EFFICIENCY PATIO TO DOU OUTS DEMOLITION THE MOCH OF THE PROPERTY OF THE		
COMPENSING UNIT NUMBER DAHU# DUCTLESS AIR HANDLING UNIT NUMBER DUCH# DUCTLESS CONDENSING UNIT NUMBER DUCTLESS CONDENSING UNIT NUMBER DEG. F DEGREES FAHRENHEIT DHP# DUCTLESS HEAT PUMP UNIT NUMBER E# EXHAUST GRILLE NUMBER EAT ENTERING AIR TEMPERATURE E\$P EXTERNAL STATIC PRESSURE E# EXHAUST FAN NUMBER FELA FULL LOAD AMPS FEET PER MINUTE HP HORSEPOWER HP# HEAT PUMP UNIT NUMBER TH TRANSFER GRILLE NUMBER DU INDOOR UNIT N. INCHES KW KILOWATT LEAVING AIR TEMPERATURE MINUMEN MCA MINIMUM CIRCUIT AMPACITY MOCP MAXIMUM OVERCURRENT PROTECTION DU OUTDOOR UNIT RR MCA MINIMUM CIRCUIT AMPACITY MOCP MAXIMUM OVERCURRENT PROTECTION DOU OUTDOOR UNIT RR RETURN GRILLE NUMBER RPM ROTATIONS PER MINUTE S# SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION		
DU D	CU#	
DUCTLESS CONDENSING UNIT NUMBER DEG. F DEGRES FAHRENHEIT DHP# DUCTLESS HEAT PUMP UNIT NUMBER E# EXHAUST GRILLE NUMBER ESP EXTERNAL STATIC PRESSURE EXHAUST FAN NUMBER F# EXHAUST FAN NUMBER F# EXHAUST FAN NUMBER FH EXHAUST FAN NUMBER FH FLA FULL LOAD AMPS FFET PER MINUTE HP HORSEPOWER HP# HEAT PUMP UNIT NUMBER T# TRANSFER GRILLE NUMBER INDOOR UNIT INCHES KW KILOWATT LAT LEAVING AIR TEMPERATURE MBH 1000 BRITISH THERMAL UNIT MMGA MINIMUM CIRCUIT AMPACITY MMCCP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE EXISTING CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING		
DEG. F DEGREES FAHRENHEIT DHP# DUCTLESS HEAT PUMP UNIT NUMBER E# EXHAUST GRILLE NUMBER EAT ENTERING AIR TEMPERATURE ESP EXTERNAL STATIC PRESSURE EXHAUST FAN NUMBER F# EXHAUST FAN NUMBER F# EXHAUST FAN NUMBER F# EXHAUST FAN NUMBER FH HEAT PUMP UNIT NUMBER FH HORSEPOWER HP# HEAT PUMP UNIT NUMBER T# TRANSFER GRILLE NUMBER DU INDOOR UNIT INCHES KW KW KILOWATT LEAVING AIR TEMPERATURE MBH 1000 BRITISH THERMAL UNIT MCA MINIMUM CIRCUIT AMPACITY MCCP MAXIMUM OVERCURRENT PROTECTION DU OUTDOOR UNIT R# RETURN GRILLE NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE EXISTING CONNECTION POINT - NEW TO EXISTING EXTENT OF DEMOLITION		
DUCTLESS HEAT PUMP UNIT NUMBER E# EXHAUST GRILLE NUMBER EAT ENTERING AIR TEMPERATURE ESP EXTERNAL STATIC PRESSURE E# EXHAUST FAN NUMBER FLA FULL LOAD AMPS FPM FEET PER MINUTE HIP HORSEPOWER HIP# HARSFER GRILLE NUMBER TITH TRANSFER GRILLE NUMBER TOU INDOOR UNIT N. INCHES KW KILOWATT LAT LEAVING AIR TEMPERATURE MBH 1000 BRITISH THERMAL UNIT MCA MINIMUM CIRCUIT AMPACITY MCCP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WWG WATER GAUGE (X) EXISTING CONNECTION POINT - NEW TO EXISTING EXTENT OF DEMOLITION EXISTING CONDENSATE PIPING		
EAT ENTERING AIR TEMPERATURE ESP EXTERNAL STATIC PRESSURE F# EXHAUST FAN NUMBER FLA FULL LOAD AMPS FEET PER MINUTE HP HORSEPOWER HP# HEAT PUMP UNIT NUMBER TT# TRANSFER GRILLE NUMBER DU INDOOR UNIT INCHES KW KILOWATT LEAVING AIR TEMPERATURE MBH 1000 BRITISH THERMAL UNIT MMCA MINIMUM CIRCUIT AMPACITY MOCOP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER RPM ROTATIONS PER MINUTE S# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION	DHP#	DUCTLESS HEAT PUMP UNIT NUMBER
ESP EXTERNAL STATIC PRESSURE F# EXHAUST FAN NUMBER FLA FULL LOAD AMPS FPEM FEET PER MINUTE HIP HORSEPOWER HIP# HEAT PUMP UNIT NUMBER T# TRANSFER GRILLE NUMBER IDU INDOOR UNIT IN. INCHES KW KILOWATT LAT LEAVING AIR TEMPERATURE MBH 1000 BRITISH THERMAL UNIT MCA MINIMUM CIRCUIT AMPACITY MOCP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION EXTENT OF DEMOLITION EXTENT OF DEMOLITION EXISTING CONDENSATE PIPING	Ξ#	EXHAUST GRILLE NUMBER
EXHAUST FAN NUMBER FLA FULL LOAD AMPS FPM FEET PER MINUTE HP HORSEPOWER HP# HEAT PUMP UNIT NUMBER TT# TRANSFER GRILLE NUMBER INDOOR UNIT IN. INCHES KW KILOWATT LAT LEAVING AIR TEMPERATURE MBH 1000 BRITISH THERMAL UNIT MCA MINIMUM CIRCUIT AMPACITY MOCP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER SSER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	EAT	ENTERING AIR TEMPERATURE
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HPP HORSEPOWER HP# HEAT PUMP UNIT NUMBER TRANSFER GRILLE NUMBER INDOOR UNIT INDOOR UNIT INCHES KW KILOWATT LEAVING AIR TEMPERATURE MBH 1000 BRITISH THERMAL UNIT MCA MINIMUM CIRCUIT AMPACITY MOCP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER RPM ROTATIONS PER MINUTE S\$# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	FLA	FULL LOAD AMPS
HP# HEAT PUMP UNIT NUMBER T# TRANSFER GRILLE NUMBER IDU INDOOR UNIT IN. INCHES KW KILOWATT LEAVING AIR TEMPERATURE MBH 1000 BRITISH THERMAL UNIT MCA MINIMUM CIRCUIT AMPACITY MOCP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER RPM ROTATIONS PER MINUTE S# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING	FPM	FEET PER MINUTE
T# TRANSFER GRILLE NUMBER IDU INDOOR UNIT INCHES KW KILOWATT LEAVING AIR TEMPERATURE MBH 1000 BRITISH THERMAL UNIT MCA MINIMUM CIRCUIT AMPACITY MOCP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER RPM ROTATIONS PER MINUTE S# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	HP	HORSEPOWER
INDOOR UNIT IN. INCHES KW KILOWATT LEAVING AIR TEMPERATURE MBH 1000 BRITISH THERMAL UNIT MCA MINIMUM CIRCUIT AMPACITY MOCP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER RPM ROTATIONS PER MINUTE S# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	HP#	HEAT PUMP UNIT NUMBER
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MCA MINIMUM CIRCUIT AMPACITY MOCP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER RPM ROTATIONS PER MINUTE S# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	LAT	LEAVING AIR TEMPERATURE
MOCP MAXIMUM OVERCURRENT PROTECTION ODU OUTDOOR UNIT R# RETURN GRILLE NUMBER RPM ROTATIONS PER MINUTE S# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	MBH	1000 BRITISH THERMAL UNIT
ODU R# RETURN GRILLE NUMBER RPM ROTATIONS PER MINUTE S# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	MCA	MINIMUM CIRCUIT AMPACITY
R# RETURN GRILLE NUMBER RPM ROTATIONS PER MINUTE S# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	MOCP	MAXIMUM OVERCURRENT PROTECTION
RPM ROTATIONS PER MINUTE S# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING		OUTDOOR UNIT
S# SUPPLY DIFFUSER NUMBER SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING		RETURN GRILLE NUMBER
SEER SEASONAL ENERGY EFFICIENCY RATIO WG WATER GAUGE EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING		ROTATIONS PER MINUTE
WG (X) EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	S#	SUPPLY DIFFUSER NUMBER
EXISTING THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	SEER	
THERMOSTAT/HUMIDISTAT DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING		
DENOTES DEMOLITION EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	(X)	EXISTING
EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING		THERMOSTAT/HUMIDISTAT
EXTENT OF DEMOLITION CONNECTION POINT - NEW TO EXISTING EXISTING CONDENSATE PIPING	<i>'\\\\</i> .	DENOTES DEMOLITION
EXISTING CONDENSATE PIPING		EXTENT OF DEMOLITION
	•	CONNECTION POINT - NEW TO EXISTING
EXISTING REFRIGERANT PIPING	(X)C	EXISTING CONDENSATE PIPING
	(X)R	EXISTING REFRIGERANT PIPING

REFRIGERANT PIPING

0		
MECHANICAL ABBREVIATI	ONE	SEA-TECH HIGH SCHOOL
		RENOVATIONS
Term	Abbreviation	KENOVATIONS
ABOVE FINISHED FLOOR	AFF	PHASE 3
ABOVE SEA LEVEL	ASL	
ACROSS THE LINE	ACL	
AIR CONDITION(-ING, -ED)	AIR COND	
AIR-HANDLING UNIT	AHU	NEW HANOVER
AMBIENT	AMB	
AMERICAN NATIONAL STANDARDS INSTITUTE	ANSI	COUNTY
AMPERE (AMP, AMPS)	AMP	
APPARATUS DEW POINT	ADP	SCHOOLS
APPROXIMATE	APPROX	
ATMOSPHERE	ATM	
AVERAGE	AVG	
BRAKE HORSEPOWER	ВНР	L
BROWN & SHARPE WIRE GAGE	B&S	
BRITISH THERMAL UNIT	BTU	
BUILDING	BLDG	

CU IN

SCFM

CHILLED WATER RETURN

CHILLED WATER SUPPLY

CUBIC FEET PER MINUTE

CFM, STANDARD CONDITIONS

DEW-POINT TEMPERATURE

DIAMETER, INSIDE

EFFICIENCY

FACE VELOCITY **FAHRENHEIT** FEET PER MINUTE FEET PER SECOND FOOT OR FEET GAGE OR GAUGE

GALLONS PER HOUR

GALLONS PER MINUTE GALLONS PER DAY

HIGH-PRESSURE STEAM

HUMIDITY, RELATIVE

IRON PIPE SIZE

KILOVOLT-AMP

KILOWATT HOUR

LINEAR FEET

LEAVING AIR TEMPERATURE

LOW-PRESSURE STEAM

MILES PER HOUR

MANUFACTURER NOISE CRITERIA

NORMALLY OPEN

NORMALLY CLOSED NOT APPLICABLE NOT IN CONTACT NOT TO SCALE NUMBER ON CENTER OUNCE OUTSIDE AIR PARTS PER MILLION

PERCENT

PRESSURE

RATED LOAD AMPS

RELATIVE HUMIDITY

SAFETY FACTOR

SHADING COEFFICIENT SPECIFICATION

TEMPERATURE DIFFERENCE

TONS OF REFRIGERATION TO BE DETERMINED TOTAL DYNAMIC HEAD

VARIABLE AIR VOLUME

WATER PRESSURE DROP

NOTE: ALL ABBREVIATIONS MAY NOT BE USED IN PROJECT

RECIRCULATE

RETURN AIR

STANDARD STATIC PRESSURE

SUPPLY AIR TEMPERATURE

THERMOSTAT

U-FACTOR

VELOCITY VENTILATION, VENT

VERTICAL

VOLT AMPERE

SEE SCHEDULES

MEDIUM-PRESSURE STEAM

NON-STANDARD PART LOAD

POUNDS PER SQUARE FOOT

REFRIGERANT (12, 22, ETC.)

REVOLUTIONS PER MINUTE REVOLUTIONS PER SECOND

LEAVING WATER TEMPERATURE

KILOWATT

INTERGRATED PART LOAD VALUES

ELEVATION

DIAMETER, OUTSIDE

DIFFERENCE OR DELTA

DRY-BULB TEMPERATURE

ENERGY EFFICIENCY RATING

ENTERING WATER TEMPERATURE

EXTERNAL AMBIENT TEMPERATURE

ENTERING AIR TEMPERATURE

COMPRESSOR

CONNECTION

CUBIC FEET

CUBIC INCH

COOLING LOAD

COEFFICIENT, VALVE FLOW

CONDENS(-ER, -ING, -ATION)

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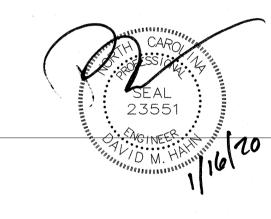
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CONSTRUCTION **DOCUMENTS**

NEW HANOVER COUNTY SCHOOLS PROJECT NUMBER: 20-9189



LS3P ASSOCIATES LTD. 2528 INDEPENDENCE BLVD. SUITE 200 WILMINGTON, NORTH CAROLINA 28412 TEL. 910.790.9901 FAX 910.790.3111 WWW.LS3P.COM



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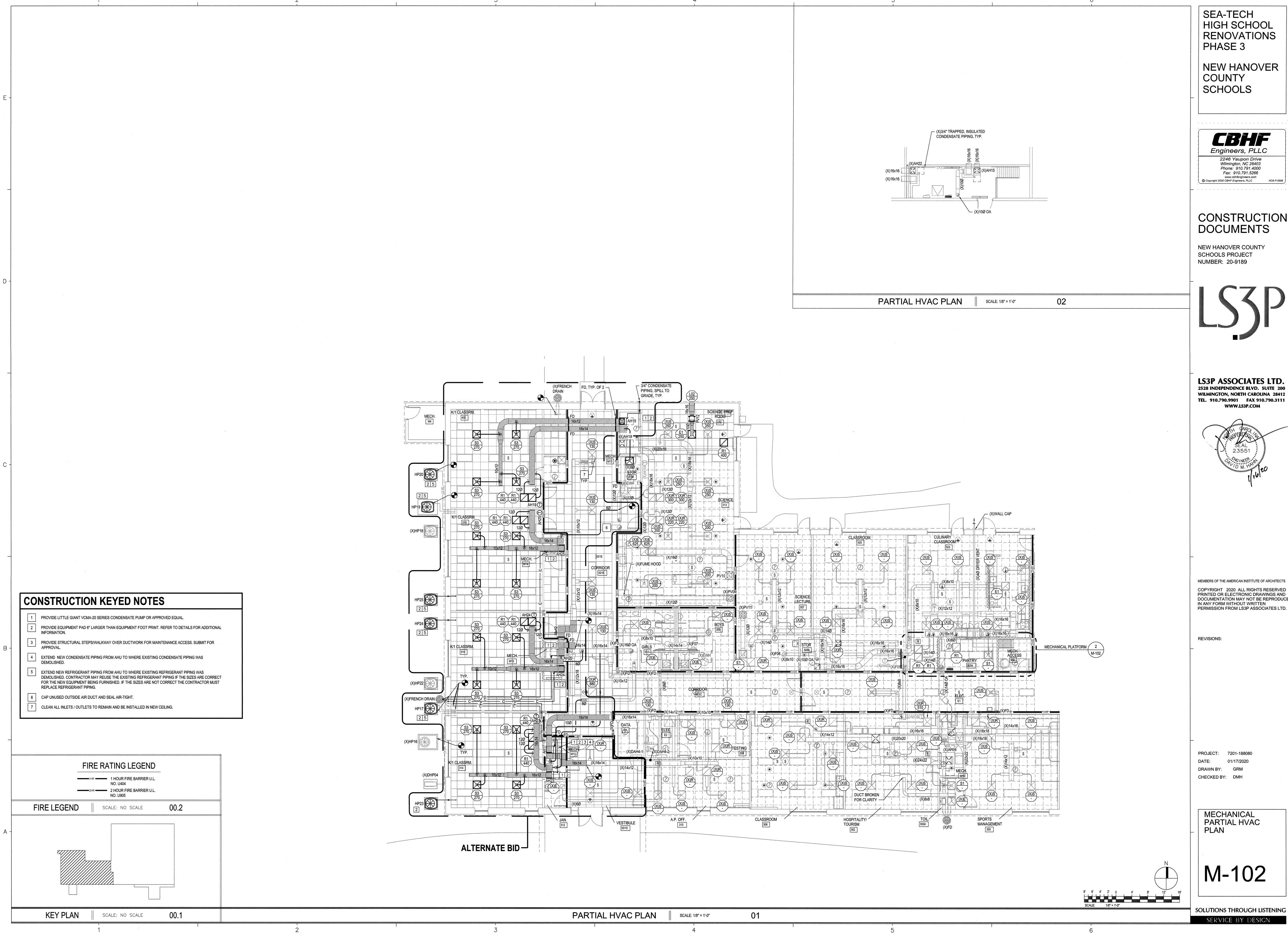
PROJECT: 7201-188080 DRAWN BY: GRM CHECKED BY: DMH

HVAC -NOTES, LEGEND, SCHEDULES & ABBREVIATIONS

M-001

SOLUTIONS THROUGH LISTENING SERVICE BY DESIGN





HIGH SCHOOL RENOVATIONS

NEW HANOVER

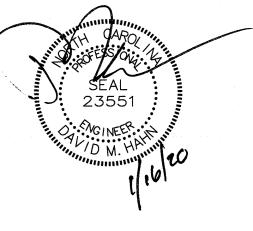


CONSTRUCTION

NEW HANOVER COUNTY

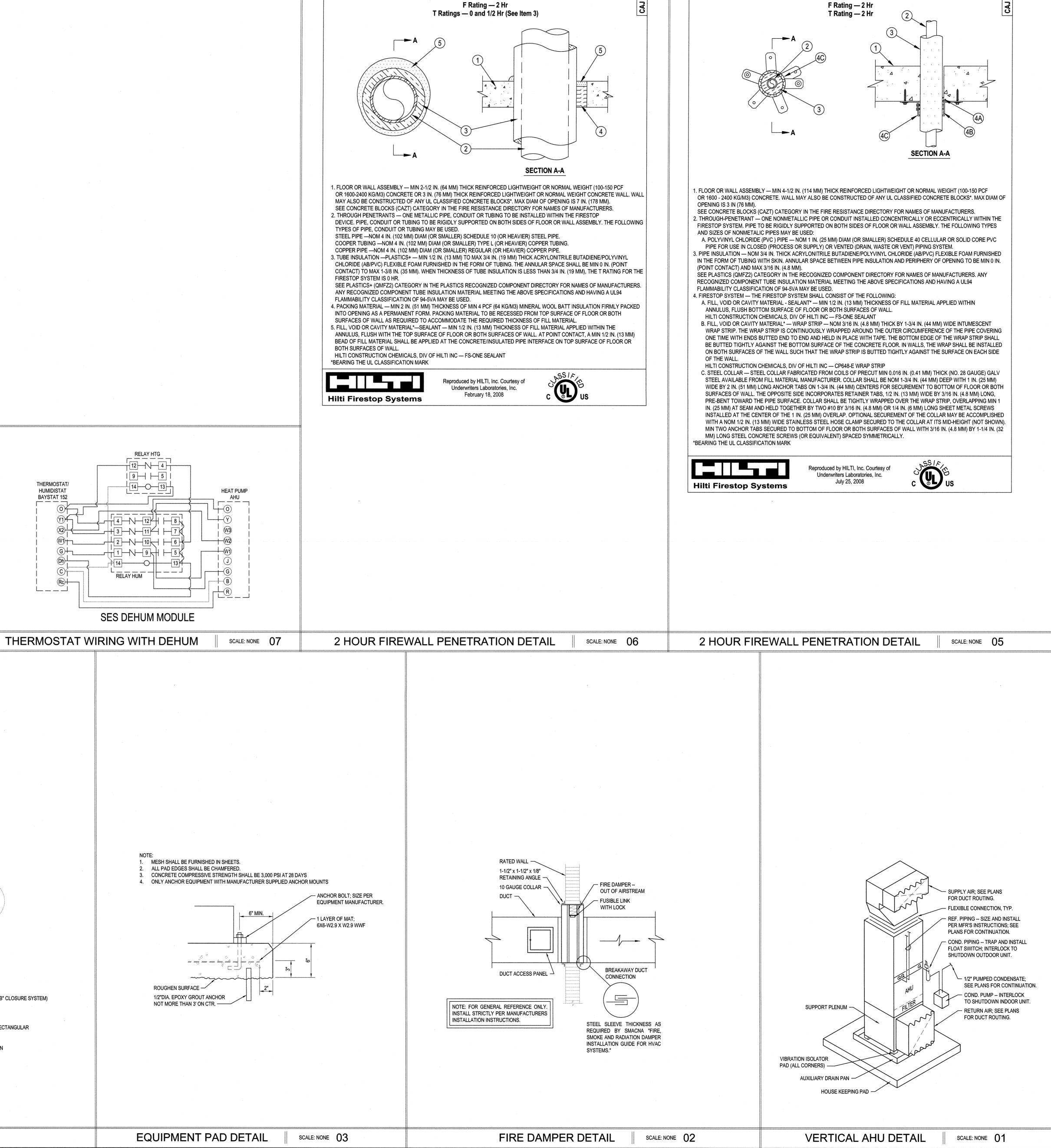


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SOLUTIONS THROUGH LISTENING



System No. C-AJ-5198

THERMOSTAT/

HUMIDISTAT

BAYSTAT 152

- NYLON CLAMP OVER

(2) WRAPS "B" TAPE AND

NYLON CLAMP OVER INSULATION

- FLEXIBLE DUCT (U.L. 181 "B" CLOSURE SYSTEM)

- ROUND TO SQUARE OR RECTANGULAR

- INSULATED BACKPAN

LIMIT RUN TO 5'-0" MAX.

FLEX DUCT

- WIRE HANGER TO

STRUCTURE

RIGID ROUND

- 45 DEG EXPANDED

- HANGER

DIFFUSER CONNECTION DETAIL

#10 X 3/4" SELF TAPPING

CADMIUM PLATED SHEET

METAL SCREWS NO POP

RIVETS ALLOWED -

STRAPS ----

THROAT TAKE OFF

- BALANCE DAMPER

RIGID ROUND DUCT. SEE PLANS FOR

SIZE. WRAP W/ EXTERNAL INSULATION —

W/LOCKING QUADRANT

12" WIDE 24 GA. SHIELD -

2" X 24" 24 GA. STRAPS -

SCALE: NONE 04

SEA-TECH HIGH SCHOOL RENOVATIONS PHASE 3

NEW HANOVER COUNTY SCHOOLS

System No. C-AJ-5320

CBHF 2246 Yaupon Drive Wilmington, NC 28403 Phone: 910.791.4000

Fax: 910.791.5266

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NEW HANOVER COUNTY **SCHOOLS PROJECT** NUMBER: 20-9189



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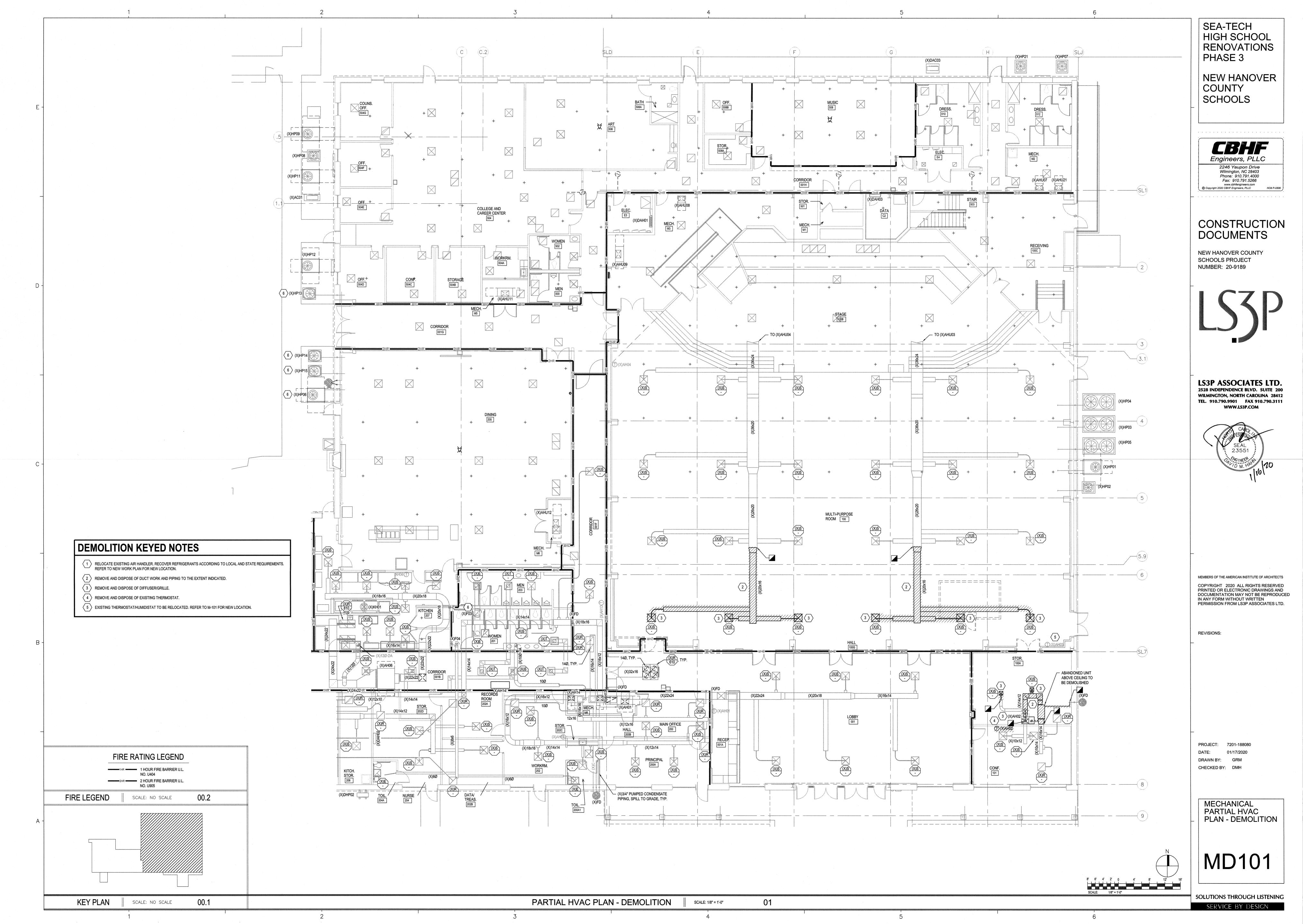
CHECKED BY: DMH

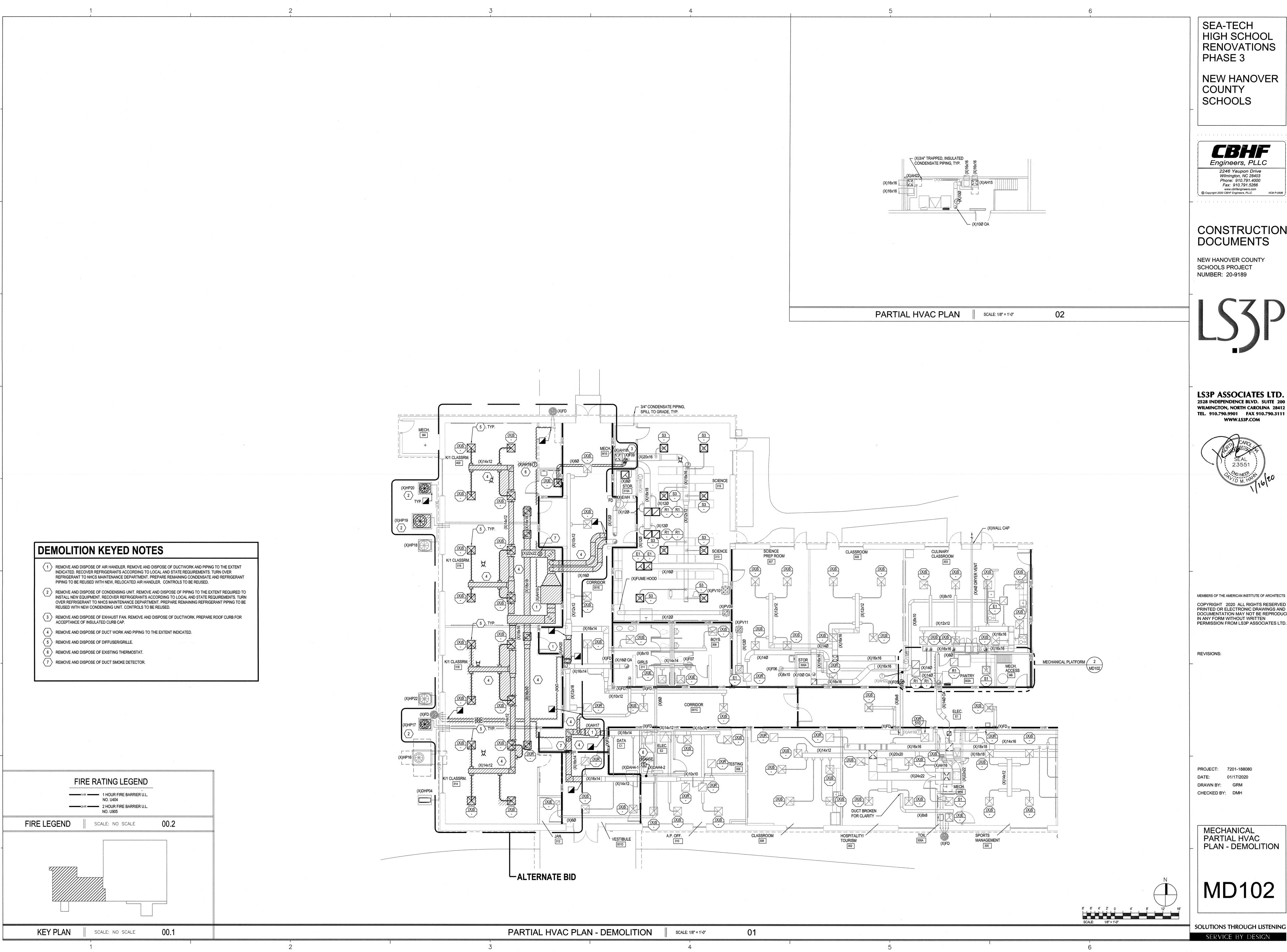
HVAC -**UL DETAILS** AND DETAIL

M-501

SOLUTIONS THROUGH LISTENING

SERVICE BY DESIGN





HIGH SCHOOL RENOVATIONS

NEW HANOVER



CONSTRUCTION

NEW HANOVER COUNTY



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MECHANICAL PARTIAL HVAC PLAN - DEMOLITION

MD102

SOLUTIONS THROUGH LISTENING