Project Name: Willis High School Expansion 9th Grade Center
Client: Willis ISD
Willis, Texas
Project Number: 1989-01-01

THE SEAL APPEARING ON THIS DOCUMENT
WAS AUTHORIZED BY
GABRIEL R. GARCIA, PE #125068 ON 10/13/2025

MECHANICAL ITEMS FOR ADDENDUM NO. 2

NOTICE TO PROPOSERS:

A. This Addendum shall be considered part of the contract documents for the above-mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original contract documents, this Addendum shall govern and take precedence.
B. Proposers are hereby notified that they shall make any necessary adjustments in their estimate on account of this Addendum. It will be construed that each Proposer's proposal is submitted with full knowledge of all modifications and supplemental data specified therein. Acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject Proposer to disqualification.

REFERENCE IS MADE TO THE DRAWINGS AND THE PROJECT MANUAL AS NOTED:

DRAWINGS:

AD No 2, MECH. Item 1: To the Drawings, Sheet M0.02 – MECHANICAL SCHEDULES

1. Revised hydronic air handler schedule to remove "indoor" from title. Refer to arrangement column.
2. Revised hydronic air handler schedule to include re-heat coil for all single zone AHUs.

END OF MECHANICAL ADDENDUM

HYDRONIC AIR HANDLER SCHEDULE

MARK AHU-	SERVES	ARRANGEMENT	S/A CFM	MIN S/A CFM	O/A CFM	MIN O/A CFM	EXT. S.P. IN WG	FANS QTY	FANS HP	COOLING DATA: ENT AIR DE... DB	ENT AIR DE... WB	LAT	MIN. CAP. MBH TOTAL	MIN. CAP. MBH SENS	WATER GPM	WATER ENT. DEG. F.	WATER LVG. DEG. F.	MAX. PD FT WG	PRE HEATING DATA: HEATING CFM	ENT AIR DEG. F. DB	LV AIR DEG. F. DB	CAP. MBH TOTAL	WATER GPM	WATER ENT. DEG. F.	WATER LVG. DEG. F.	RE-HEATING DATA: HEATING CFM	ENT AIR DEG. F. DB	LV AIR DEG. F. DB	CAP. MBH TOTAL	WATER GPM	WATER ENT. DEG. F.	WATER LVG. DEG. F.	MAX. PD FT WG	VFD ELEC. DATA: MCA	MOCP	VOLTS	PH	MANFACTURER AND MODEL NO.	WEIGHT LBS	REMARKS
01	LEVEL 1 ACADEMICS	TOP DISCHARGE, REAR RETURN, TOP OA	14,000	5,950	5,950	1,785	2.5	2	10	84.8	69.0	55	631.7	437.0	105.3	42.0	54.0	10	5950	28	55	173.5	8.7	140.0	100.0	--	--	--	--	--	--	--	--	27	40	480	3	CARRIER 39MN	4,650	1-12
02	LEVEL 2 ACADEMICS	TOP DISCHARGE, REAR RETURN, TOP OA	10,500	6,075	6,075	1,825	2.5	2	10	88.3	71.1	55	564.7	378.4	94.1	42.0	54.0	10	6075	28	55	177.1	8.9	140.0	100.0	--	--	--	--	--	--	--	--	27	40	480	3	CARRIER 39MN	3,500	1-12
03	LEVEL 3 ACADEMICS	TOP DISCHARGE, REAR RETURN, TOP OA	16,000	7,100	7,100	2,130	2.5	2	10	85.2	69.2	55	722.2	500.4	120.4	42.0	54.0	10	7100	28	55	207.0	10.4	140.0	100.0	--	--	--	--	--	--	--	--	27	40	480	3	CARRIER 39MN	4,650	1-12
04	KITCHEN	TOP DISCHARGE, REAR RETURN, TOP OA	4,700	4,700	1,260	1,260	1	2	3	81.2	66.8	55	196.4	145.3	32.7	42.0	54.0	10	4700	59	95	184.1	9.2	140.0	100.0	4700	55	75	101.5	5.1	140.0	100.0	10	12	15	480	3	CARRIER 39MN	2,750	1-12
05	CAFETERIA	SIDE DISCHARGE, SIDE RETURN, ROOF MOUNT	9,125	9,125	4,615	1,385	1	2	5	86.6	70.1	55	497.4	319.2	82.9	42.0	54.0	10	9125	49	95	455.7	22.8	140.0	100.0	9125	55	75	197.1	9.9	140.0	100.0	10	14	30	480	3	CARRIER 39MN	5,300	1-13
06	GYM	DOWN DISCHARGE, DOWN RETURN, ROOF MOUNT	11,500	11,500	7,825	2,350	1	2	7.5	90.7	72.5	55	693.4	454.7	115.6	42.0	54.0	10	11500	41	95	665.4	33.3	140.0	100.0	11500	55	75	248.4	12.4	140.0	100.0	10	23	30	480	3	CARRIER 39MN	6,100	1-13
07	GYM	DOWN DISCHARGE, DOWN RETURN, ROOF MOUNT	3,500	3,500	2,700	810	1	2	3	92.7	73.8	55	210.3	135.9	35.1	42.0	54.0	10	3500	38	95	217.0	10.8	140.0	100.0	3500	55	75	75.6	3.8	140.0	100.0	10	7.6	15	480	3	CARRIER 39MN	3,200	1-13
08	GYM	DOWN DISCHARGE, DOWN RETURN, ROOF MOUNT	11,500	11,500	7,850	2,355	1	2	7.5	90.7	72.6	55	693.2	455.7	115.5	42.0	54.0	10	11500	41	95	666.6	33.3	140.0	100.0	11500	55	75	248.4	12.4	140.0	100.0	10	23	30	480	3	CARRIER 39MN	6,100	1-13
09	ORCHESTRA	DOWN DISCHARGE, DOWN RETURN, ROOF MOUNT	2,000	2,000	900	900	1	1	3	85.4	69.3	55	97.2	68.8	16.2	42.0	54.0	10	2000	51	95	94.8	4.7	140.0	100.0	2000	55	75	43.2	2.2	140.0	100.0	10	3.0	15	480	3	CARRIER 39MN	2,600	1-12
10	LOCKER ROOMS	DOWN DISCHARGE, DOWN RETURN, ROOF MOUNT	4,675	2,300	2,300	985	2.5	2	5	86.3	69.9	55	185.2	136.5	30.9	42.0	54.0	10	2300	28	55	67.1	3.4	140.0	100.0	--	--	--	--	--	--	--	--	14	30	480	3	CARRIER 39MN	3,000	1-13
11	WEIGHT ROOM	DOWN DISCHARGE, DOWN RETURN, ROOF MOUNT	2,400	2,400	1,600	480	1	1	3	90.3	72.3	55	159.3	104.5	26.6	42.0	54.0	10	2400	42	95	137.4	6.9	140.0	100.0	2400	55	75	51.8	2.6	140.0	100.0	10	4.8	15	480	3	CARRIER 39MN	2,650	1-13
12	MAIN COMMONS	DOWN DISCHARGE, DOWN RETURN, ROOF MOUNT	4,000	4,000	525	525	1	2	3	78.0	64.8	55	121.5	107.6	20.3	42.0	54.0	10	4000	64	95	131.8	6.6	140.0	100.0	4000	55	75	86.4	4.3	140.0	100.0	10	12	15	480	3	CARRIER 39MN	3,200	1-12
13	ATHLETIC LOBBY	SIDE DISCHARGE, SIDE RETURN, ROOF MOUNT	2,050	2,050	175	175	1	1	2	77.0	64.2	55	56.7	52.8	9.5	42.0	54.0	10	2050	66	95	63.3	3.2	140.0	100.0	2050	55	75	44.3	2.2	140.0	100.0	10	3.0	15	480	3	CARRIER 39MN	2,750	1-12

1. ESP DOES NOT INCLUDE FILTER OR UNIT LOSSES
2. REFER TO CONTROLS DOCUMENTS FOR CONTROL REQUIREMENTS.
3. ALL ACCESS TO BE PROVIDED FROM SINGLE SIDE OF UNIT. VERIFY UNIT HANDEDNESS PRIOR TO ORDERING EQUIPMENT.
4. PROVIDE WITH DOUBLE-WALL CONSTRUCTION WITH CLOSED CELL FOAM INNER LINER AND THERMAL BREAK. DOUBLE-WALL ACCESS DOOR WITH QUARTER TURN DOOR HANDLES
5. PROVIDE WITH CORROSION RESISTANT CONDENSATE PAN
6. CAPACITIES LISTED ARE NET FROM UNIT DISCHARGE
7. PROVIDE WITH DIRECT DRIVE SUPPLY FAN WITH PREMIUM EFFICIENCY MOTOR.
8. PROVIDE FILTER RACK SECTION WITH 2" PLEATED MERV 13 FILTERS.
9. PROVDE WITH DUCT SMOKE DETECTOR IN RETURN DUCT INTERLOCKED WITH SUPPLY FAN FOR SHUTDOWN UPON DETECTION
10. BASIS OF DESIGN IS CARRIER. CONTRACTOR RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
11. PROVIDE WITH SINGLE POINT OF POWER CONNECTION.
12. PROVIDE WITH BIPOLAR IONIZER NEEDLE POINT AIR CLEANING DEVICE.
13. PROVIDE WITH DEMAND CONTROL VENTILATION. CO2 SENSOR MOUNTED PER PLANS.

DEDICATED OUTSIDE AIR SYSTEM UNIT SCHEDULE

MARK AHU-	SERVES	ARRANGEMENT	SUPPLY FAN: S/A CFM	O/A CFM	EXT. S.P.	QTY	HP	EXHAUST FAN: E/A CFM	EXT. S.P.	QTY	HP	ENERGY WHEEL: WINTER SUP EAT	WINTER SUP LAT	WINTER EXH EAT	WINTER MBH	SUMMER SUP EAT	SUMMER SUP LAT	SUMMER EXH EAT	SUMMER MBH	HYDRONIC HEATING DATA: EAT	LAT	CAP MBH	WATER GPM	WATER EWT	WATER LWT	NET COOLING PERFORMANCE: ENTERING... D.B.	ENTERING... W.B.	CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENS	WATER LAT	WATER GPM	WATER EWT	WATER LWT	POWER CONN. V.	Ph.	MCA	MOCP	MANUFACTURER AND MODEL	UNIT WEIGHT (LBS)	REMARKS
14	SCIENCE	ROOF MOUNTED DOWNFLOW	9,460	9,460	1.0	1.0	10.0	11,130	0.3	1.0	10.0	27.5	46.0	70.0	271.0	105.0	84.0	75.0	642.0	46.0	70.0	245.2	13.8	140.0	100	85.0	68.9	425.0	302.0	123.0	70.7	42.0	54.0	460	3	70	100	CARRIER 39MN	6,750	1-18

1. EXTERNAL STATIC PRESSURE ("WG") INCLUDES DUCTWORK, BALANCING DAMPERS AND AIR DEVICES ONLY
2. CAPACITIES LISTED ARE NET FROM UNIT DISCHARGE. UNITS SHALL PERFORM TO LISTED CAPACITIES. UNIT PERFORMANCE MUST SATISFY BOTH SENSIBLE AND LATENT CAPACITY REQUIREMENTS.
3. CARRIER IS THE BASIS FOR DESIGN. CONTRACTOR IS RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
4. FUEL FOR HEATING SHALL BE HEATING WATER
5. PROVIDE GALVANIZED INSULATED FACTORY ROOF CURB TO MATCH ROOF SLOPE.
6. PROVIDE FACTORY HAIL GUARDS
7. PROVIDE WITH TERMINAL STRIP FOR CONTROL SYSTEM INTERFACE - COORDINATE WITH CONTROLS CONTRACTOR.
8. PROVIDE WITH SMOKE DETECTOR INTERLOCKED TO SUPPLY FAN AS REQUIRED BY CODE.
11. PROVIDE WITH STAINLESS STEEL HEAT EXCHANGERS.
12. PROVIDE WITH INTEGRAL DISCONNECT AND UNPOWERED GFCI...
13. PROVIDE DOUBLE WALL CONSTRUCTION.
14. PROVIDE WITH STAINLESS STEEL OR CORRISION RESISTANT CONDENSATE DRAIN PAN.
16. PROVIDE SINGLE POINT ELECTRICAL CONNECTION, INCLUDING ENERGY WHEEL.
17. PROVIDE SUPPLY AND EXHAUST FANS WITH VARIABLE FREQUENCY DRIVES.
18. PROVIDE WITH BIPOLAR IONIZER NEEDLE POINT AIR CLEANING DEVICE.

HYDRONIC FAN COIL UNIT SCHEDULE

MARK FCU-	SERVES	ARRANGEMENT	SUPPLY FAN: DES CFM	O/A CFM	EXT. S.P.	EAT	LAT	CAP MBH	HOT WATER HEATING: WATER EWT	WATER LWT	WATER GPM	WATER MAX P.D.	NET COOLING PERFORMANCE DATA: CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENS	ENTERING... LAT	LAT D.B.	LAT W.B.	WATER EWT	WATER LWT	WATER GPM	WATER MAX P.D.	POWER CONN. V	PH	MCA	MOCP	MANUFACTURER MAKE AND MODEL	REMARKS
1	ART	HORIZONTAL	800	265	0.50	57.75	90	27.9	140	100	1.4	10	33.5	23.9	9.6	82	67	55	42	54	5.6	10	277	1	6.4	15	CARRIER 42DHA	1-9
2	ART	HORIZONTAL	1,300	285	0.50	62.231	90	39.0	140	100	1.9	10	43.6	33.0	10.6	79	66	55	42	54	7.3	10	277	1	6.4	15	CARRIER 42DHA	1-9
3	SCIENCE	HORIZONTAL	2,300	0	0.50	71	90	47.2	140	100	2.4	10	67.0	50.8	16.2	74	63	55	42	54	11.2	10	277	1	5.5	15	CARRIER 42DHA	1-9
4	SCIENCE	HORIZONTAL	1,800	0	0.50	71	90	36.9	140	100	1.8	10	53.1	39.4	13.7	74	63	55	42	54	8.9	10	277	1	6.4	15	CARRIER 42DHA	1-9
5	SCIENCE	HORIZONTAL	2,100	0	0.50	71	90	43.1	140	100	2.2	10	62.6	46.7	15.9	74	63	55	42	54	10.4	10	277	1	2.8	15	CARRIER 42DHA	1-9
6	SCIENCE	HORIZONTAL	1,900	0	0.50	71	90	39.0	140	100	1.9	10	60.1	46.3	13.8	74	63	55	42	54	10.0	10	277	1	6.4	15	CARRIER 42DHA	1-9
7	SCIENCE	HORIZONTAL	2,350	0	0.50	71	90	48.2	140	100	2.4	10	71.4	57.5	13.9	74	63	55	42	54	11.9	10	277	1	5.5	15	CARRIER 42DHA	1-9
8	SCIENCE	HORIZONTAL	2,250	0	0.50	71	90	46.2	140	100	2.3	10	70.3	55.0	15.3	74	63	55	42	54	11.7	10	277	1	5.5	15	CARRIER 42DHA	1-9
9	STAIR	HORIZONTAL	450	50	0.25	66.556	90	11.4	140	100	0.6	10	10.6	9.8	0.8	77	64	55	42	54	1.8	10	277	1	1.4	15	CARRIER 42DHA	1-9
10	STAIR	HORIZONTAL	450	50	0.25	66.556	90	11.4	140	100	0.6	10	14.7	13.9	0.8	77	64	55	42	54	2.5	10	277	1	1.3	15	CARRIER 42DHA	1-9
11	STAIR	HORIZONTAL	300	50	0.25	64.333	90	8.3	140	100	0.4	10	14.7	13.9	0.8	78	65	55	42	54	2.5	10	277	1	1.3	15	CARRIER 42DHA	1-9
12	AV	HORIZONTAL	300	50	0.25	64.333	90	8.3	140	100	0.4	10	5.8	4.9	0.9	78	65	55	42	54	1.0	10	277	1	1.0	15	CARRIER 42DHA	1-9
13	CONCESSIO...	HORIZONTAL	400	50	0.25	66	90	10.4	140	100	0.5	10	5.8	4.9	0.9	77	64	55	42	54	1.0	10	277	1	1.0	15	CARRIER 42DHA	1-9

1. EXTERNAL STATIC PRESSURE ("WG") INCLUDES DUCTWORK, BALANCING DAMPERS AND AIR DEVICES ONLY
2. UNITS SHALL PERFORM TO LISTED CAPACITIES. UNIT PERFORMANCE MUST SATISFY BOTH SENSIBLE AND LATENT CAPACITY REQUIREMENTS.
3. DESIGN BASIS IS CARRIER. CONTRACTOR IS RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
4. PROVIDE WITH 2" MERV 8 FILTERS.
5. PROVIDE WITH STAINLESS STEEL OR CORROSION RESISTANT CONDENSATE DRAIN PAN
6. PROVIDE WITH AN END RETURN AIR CONNECTION AND AN END SUPPLY AIR CONNECTION
7. PROVIDE MODULATING CONTROL VALVE FOR CHILLED AND HOT WATER COIL
8. PROVIDE SINGLE POINT POWER CONNECTION
9. PROVIDE WITH ELECTRONICALLY COMMUTATED MOTOR

PACKAGED MAKEUP AIR UNIT WITH NATURAL GAS HEAT SCHEDULE

MARK MAU-	ARRANGEMENT	SUPPLY FAN: SUPPLY CFM	O/A CFM	EXT. S.P.	QTY	HP	NATURAL GAS HEATING: EAT	LAT	CAP. MBH	INPUT MBH	NO. STAGES	NET COOLING PERFORMANCE DATA: CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENS.	LAT.	O.D. D.B.	ENTERING D.B.	ENTERING W.B.	MIN. IEER	COMPRESSOR QTY	COMPRESSOR REF. TYPE	POWER CONN. V	PH	MCA	MOCP	MANUFACTURER MAKE AND MODEL	UNIT WEIGHT (LBS.)	REMARKS
1	DOWNFLOW	4500	4500	1	1	5	28	75	242.9	299.9	MOD	204.7	137.6	67.1	100	105	78	18.8	1	R410A	480	3	34	40	CAPTIVEAIRE CAS HVAC3	2500	1-9
2	DOWNFLOW	800	800	1	1	1	28	75	60.7	74.9	MOD	38.4	24	14.4	100	105	78	17.9	1	R410A	480	3	10.2	15	CAPTIVEAIRE CAS HVAC1	1100	1-9

1. EXTERNAL STATIC PRESSURE ("WG") INCLUDES DUCTWORK, BALANCING DAMPERS AND AIR DEVICES ONLY.
2. UNITS SHALL PERFORM TO LISTED CAPACITIES. UNIT PERFORMANCE MUST SATISFY BOTH SENSIBLE AND LATENT CAPACITY REQUIREMENTS.
3. DESIGN BASIS IS CAPTIVEAIRE. CONTRACTOR IS RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
4. PROVIDE GALVANIZED INSULATED FACTORY ROOF CURB TO MATCH ROOF SLOPE.
5. PROVIDE FACTORY COIL PROTECTION PACKAGE.
6. INTERLOCK WITH TOGGLE SWITCH FOR ASSOCIATED KITCHEN HOODS AND KITCHEN EXHAUST FANS.
7. PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER.
8. PROVIDE WITH INTEGRAL DISCONNECT AND UNPOWERED GFCI RECEPTACLE
9. PROVIDE WITH STAINLESS STEEL OR CORROSION RESISTANT CONDENSATE DRAIN PAN

AIR COOLED CHILLER SCHEDULE

MARK CH-	NOMINAL TONS	O.D. D.B.	TYPE	EWT DEG...	LWT DEG...	FLOW (GPM) MIN	FLOW (GPM) DESIGN	WPD FT WG	FOULI... FACTOR	EE R	IPLV	REF. TYPE	UNIT ELECTRICAL VOLTS	PH.	HZ	MCA	MOCP	WEIG... (LBS)	MANUFACTURER AND MODEL NO.	REMARKS
1	300	98	SCREW	54	42	319	547	10.7	0.0001	9.5	18.09	R513A	460	3	60	545	700	17,500	CARRIER 30XV300	1-11
2	300	98	SCREW	54	42	319	547	10.7	0.0001	9.5	18.09	R513A	460	3	60	545	700	17,500	CARRIER 30XV300	1-11

1. ALL PIPING (AND CHILLER WATER-SIDE COMPONENTS) EXPOSED TO AMBIENT CONDITIONS SHALL BE HEAT TRACED AND INSULATED TO PREVENT FREEZING, DOWN TO 0 DEG F....
2. PROVIDE LOW AMBIENT HEAD PRESSURE CONTROLS TO ALLOW OPERATION DOWN TO 0 DEG F. AMBIENT.
3. PROVIDE SINGLE POINT POWER CONNECTION WITH NON-FUSED DISCONNECT SWITCH AND HIGH SCCR RATING
4. PROVIDE SUCTION ACCUMULATOR, WATER FLOW SWITCH AND PUMP DIFFERENTIAL SENSOR
5. PROVIDE PACKAGED UNIT FOR OUTDOOR APPLICATION
6. PROVIDE A MINIMUM OF TWO VARIABLE SPEED SCREW COMPRESSORS
7. PROVIDE WITH E-COATED ALUMINUM MICROCHANNEL COILS FOR COASTAL ENVIRONMENT APPLICATIONS
8. PROVIDE 115V NEMA 3R SERVICE OUTLET
9. PROVIDE WATER PRESSURE GAUGE SET
10. PROVIDE VARIABLE SPEED CONDENSER FANS WITH LOW SOUND KIT AND SOUND OPTIMIZATION
11. PROVIDE FULL HAIL GUARD COIL PROTECTION PACKAGE

PUMP SCHEDULE

MARK -	SERVES	TYPE	GPM	TOTAL HEAD FT...	PUMP EFF.	MOTOR DATA HP	MOTOR DATA RPM	MOTOR DATA V	MOTOR DATA PH	MANUFACTURER MAKE AND MODEL	REMARKS
CHWP-1	PRIMARY CHILLER LOOP	END SUCTION	600	120	76.7	30	1775	460	3	WILO NL-H3 4X3X12	1-8
CHWP-2	PRIMARY CHILLER LOOP	END SUCTION	600	120	76.7	30	1775	460	3	WILO NL-HE 4X3X12	1-8
HWP-1	HEATING WATER LOOP	END SUCTION	130	100	70	7.5	3500	460	3	WILO NL-HE 2.5X1.5X5	1-8
HWP-2	HEATING WATER LOOP	END SUCTION	130	100	70	7.5	3500	460	3	WILO NL-HE 2.5X1.5X5	1-8

1. PROVIDE STAINLESS STEEL FITTED IMPELLER
2. PROVIDE WITH A NEMA MG 1 PART 31 - PREMIUM EFFECIENCY MOTOR IN ACCORDANCE WITH NEMA STANDARDS. PROVIDE WITH SHAFT GROUNDING RINGS
3. PUMP SUBMITTED MUST MEET STATED PUMP EFFECIENCY AT CONDITIONS SPECIFIED
4. PUMP MOTOR SHALL BE INVERTER DUTY RATED.
5. PROVIDE WITH ODP MOTOR
6. PROVIDE WITH ANSI CLASS 125 FLANGES
7. PROVIDE WITH ABB VARIABLE FREQUENCY DRIVE TO BE MOUNTED ON WALL.
8. PROVIDE WITH END SUCTION DIFFUSER

EXPANSION TANK / AIR SEPARATOR SCHEDULE

MARK	SYSTEM	LOCATION	SYSTEM TEMP RANGE (DEG. F.)	TANK: TYPE	TANK: SIZE (GAL.)	TANK: ACCEPTANCE...	TANK: AIR CHARGE (PSIG)	TANK: ASME RATING...	TANK: MFG. / MODEL	TANK: FLOODED WEIGHT...	TANK: NOTES	AIR SEPARATOR: MARK	AIR SEPARATOR: CAP. GPM	AIR SEPARATOR: CONN. PIPE...	AIR SEPARATOR: MFG. / MODEL	AIR SEPARATOR: FLOODED WEIGHT...	AIR SEPARATOR: NOTES
ET-1	CHILLED WATER	MECH 317	42-70	DIAPHRAGM/FLOOR...	115	93	12	100	B&G / D200	1283	1-4	AS-1	3600	10	B&G / RL-10F	2100	1,5,6,7
ET-2	HEATING WATER	MECH 317	100-140	DIAPHRAGM/FLOOR...	211	171	12	100	B&G / D280	2510	1-4	AS-2	1900	8	B&G / RL-8F	1200	1,5,6,7

1. BELL & GOSSETT IS THE BASIS OF DESIGN.
2. ASME RATED, PRE-CHARGED BLADDER TYPE, CARBON STEEL SHELL TANK.
3. PROVIDE HEAVY DUTY BUTYL RUBBER BLADDER.
4. PROVIDE WITH BLADDER CONDITION MONITOR AND PRESSURE GAUGE.
5. ASME CERTIFIED, CARBON STEEL BODY.
6. PROVIDE WITH FLANGED CONNECTIONS.
7. CENTRIFUGAL SEPARATOR WITHOUT STRAINER.

GAS FIRED HYDRONIC BOILER

MARK B-	TYPE	HEATING CAPACIT... INPUT	HEATING CAPACIT... OUTPUT	MIN. EFF. (%)	FLUE SIZE	WATER TEMP. ENT.	WATER TEMP. LVG.	GPM	VOLT	PHASE	MCA	MANUFACTURER AND MODEL NUMBER	REMARKS
1	WATER TUBE	3,000	2,589	86.3	10"	100	140	130	208	3	7.8	LAARS OMNITHERM	1-6
2	WATER TUBE	3,000	2,589	86.3	10"	100	140	130	208	3	7.8	LAARS OMNITHERM	1-6

1. PROVIDE COMBINATION WATER FEEDER AND LOW WATER CUT-OFF
2. PROVIDE VERTICAL DRAFT DIVERTER
3. PROVIDE STAINLESS STEEL HEAT EXCHANGER
4. PROVIDE WITH MANUFACTURER CONTROLLER FOR CASCADING CONTROL OF ALL BOILERS. CONTROLLER TO INCLUDE BACNET CAPABILITY FOR CONNECTION TO CAMPUS BMS SYSTEM.
5. PROVIDE FACTORY MOUNTED 75 PSI PRESSURE RELIEFT VALVE
6. PROVIDE WITH MANUFACTURER'S INTEGRAL BOILER CIRCULATION PUMP

Revision / 1 — Date 10/13/25 — Addendum 02

Project:
WILLIS ISD HIGH SCHOOL EXPANSION
9TH GRADE CENTER
FOR
WILLIS ISD
1201 FM 830 RD, WILLIS, TX 77378

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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY GABRIEL R. GARCIA, PE #125068 ON 10/13/2025

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MECHANICAL SCHEDULES

Job No. 1989-01-01
Drawn By: MBP
Date: 09/09/2025
Sheet No. M0.02