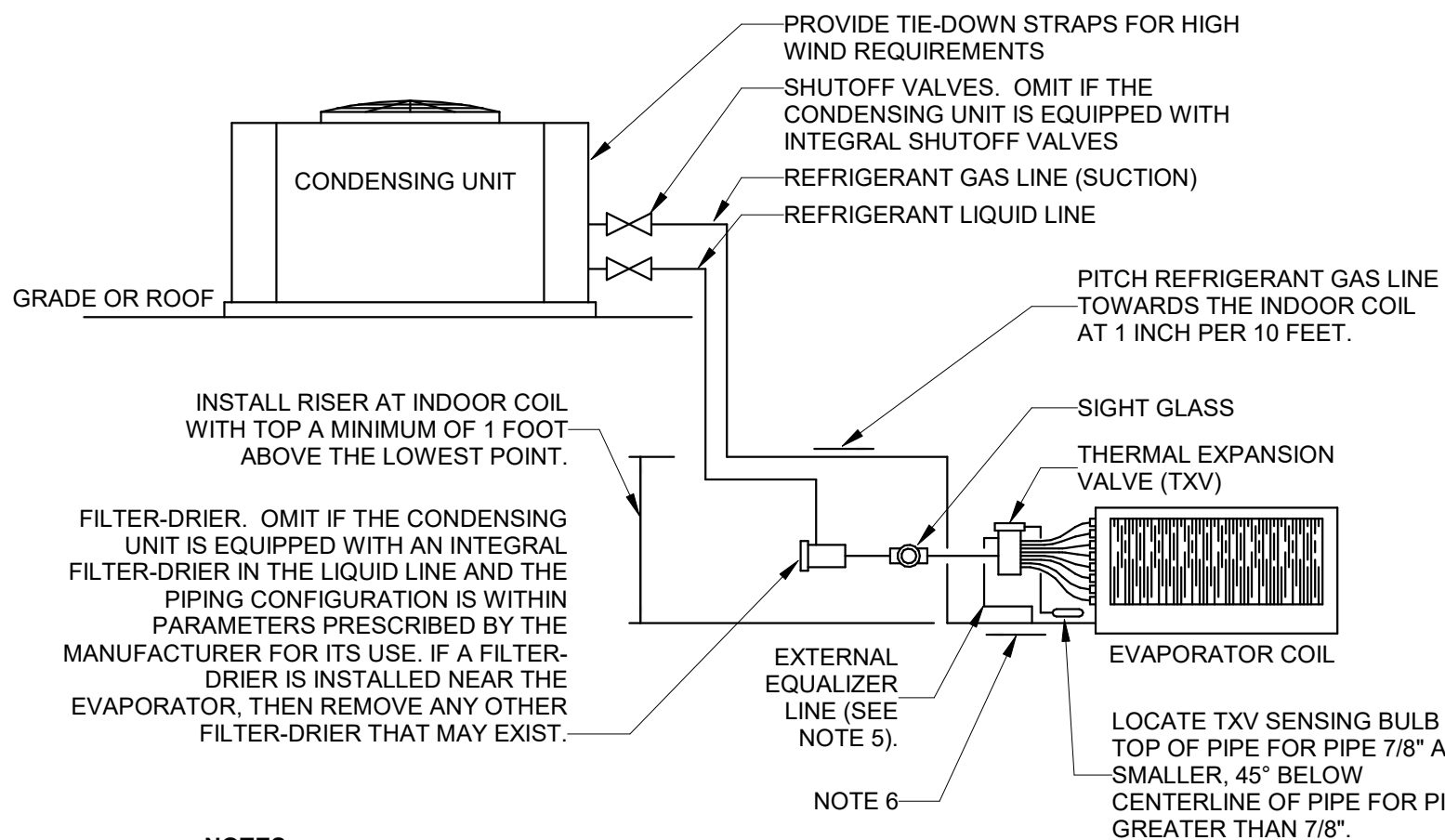


GENERAL NEW NOTES:

3. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
2. DURING INSTALLATION OF NEW WORK, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
3. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
4. INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.
5. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
6. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.
7. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
8. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
9. LOCATE AND SET THERMOSTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
10. COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.



NOTES:

1. INSTALL REFRIGERANT PIPING AND COMPONENTS IN STRICT CONFORMANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS, WHICH SHALL TAKE PRECEDENCE OVER INFORMATION PRESENTED IN THIS DETAIL.
2. ALL COMPONENTS INSTALLED SHALL BE THE EXACT MODEL RECOMMENDED BY THE MANUFACTURER.
3. CONSULT THE MANUFACTURER REGARDING THE NEED TO INSTALL A SOLENOID VALVE IN THE LIQUID LINE BETWEEN THE FILTER-DRIER AND SITE GLASS.
4. INSTALL REFRIGERATION PIPE SIZES RECOMMENDED BY THE MANUFACTURER AND CONSULT THE MANUFACTURER REGARDING THE NEED FOR INTERMEDIATE TRAPS BASED ON THE RECOMMENDED PIPE SIZES AND PIPING CONFIGURATION.
5. INSTALL THERMAL EXPANSION VALVE WITH BALANCED PORT CONSTRUCTION AND EXTERNAL EQUALIZER LINES FOR ALL EVAPORATOR COILS EQUIPPED WITH A REFRIGERANT DISTRIBUTOR.
6. PITCH REFRIGERANT GAS LINE AWAY FROM INDOOR COIL AT 1 INCH PER 10 FEET.
7. FILTER- DRIER MAY BE OMITTED IF NOT REQUIRED BY MANUFACTURER.
8. SIGHT GLASS MAY BE OMITTED IF NOT REQUIRED BY MANUFACTURER AND SYSTEM IS LESS THAN 5 TONS.

1

SPLIT SYSTEM PIPING DETAIL

N.T.S

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MECHANICAL SHEET LIST	
SHEET NUMBER	SHEET NAME
H01	MECHANICAL SYMBOLS, ABBREVIATIONS, AND NOTES
H02	MECHANICAL SPECIFICATIONS
H03	MECHANICAL HVAC PLAN
H04	MECHANICAL SCHEDULES & DETAILS
H05	MECHANICAL ENERGY COMPLIANCE

CONSTRUCTION PLANS

BIM 360://048104001 EWD Headworks/EWD Headworks MEP.R20.rvt

No.	Revisions	By	Date

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	DATE SEP 30, 2022
	SCALE: AS SHOWN
	DESIGNED BY: JCD
	DRAWN BY: JCD
	CHECKED BY: JDS

SOUTH WATER RECLAMATION FACILITY HEADWORKS PREPARED FOR ENGLEWOOD WATER DISTRICT	LICENSED PROFESSIONAL:	MECHANICAL SYMBOLS, ABBREVIATIONS, AND NOTES	SHEET NUMBER
	JEFF SMITH, P.E. FL LICENSE NUMBER 90923 DATE:		H01

MECHANICAL SPECIFICATIONS

A. WORKMANSHIP

1. ALL WORK TO BE PERFORMED BY QUALIFIED PERSONNEL NORMALLY ENGAGED IN THE RESPECTIVE LINE OF WORK.
2. PERFORM ALL WORK IN A MANNER NOT TO DISTURB THE NORMAL OPERATION OF THE BUILDING.
3. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE.
4. COORDINATE ALL WORK WITH THE OTHER TRADES.
5. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.

B. CUTTING, PATCHING, & PAINTING

1. ALL CUTTING AND PATCHING TO BE PERFORMED BY THE GENERAL CONTRACTOR.
2. CUTTING OF ALL OPENINGS SHALL BE COORDINATED WITH THE OWNER'S ENGINEERING REPRESENTATIVE.
3. WATER WILL NOT BE USED FOR CONCRETE CUTTING WITHOUT THE DIRECT SUPERVISION OF THE OWNER'S ENGINEERING REPRESENTATIVE.

C. PRODUCT HANDLING

1. USE ALL MEANS NECESSARY TO PROTECT ALL MATERIALS AND EQUIPMENT BEFORE, DURING, AND AFTER INSTALLATION AND TO PROTECT THE MATERIALS AND WORK OF THE OTHER TRADES.
2. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

D. EQUIPMENT

1. EQUIPMENT SHALL BE AS SPECIFIED IN THE EQUIPMENT SCHEDULE OR AN APPROVED EQUAL IF NOTED.
2. INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
3. GENERAL CONTRACTOR SHALL PROVIDE ALL CURBED OPENINGS IN ROOF FOR ALL ROOF MOUNTED EQUIPMENT.
4. ALL UNITS ON ROOF SHALL BE SET ON LEVEL CURBS OR SUPPORTS AT ROOF.
5. SECURELY FASTEN ALL EQUIPMENT TO PREVENT MOVEMENT DUE TO WIND OR SEISMIC FORCES.
6. PROVIDE 10'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKE AND ANY EXHAUST AIR OUTLETS OR PLUMBING VENTS.

E. PIPING

1. EQUIPMENT DRAIN PIPING TO BE TYPE 'M' HARD DRAWN COPPER WITH WROT COPPER FITTINGS. USE 95/5 SOLDER. SLOPE PIPING 1/8" PER FOOT TOWARDS DRAIN.
2. PROVIDE SPLIT RING HANGERS AT 6'-0" CENTERS AND AT ALL CHANGES IN DIRECTION.
3. ISOLATE ALL DISSIMILAR METALS WITH DIELECTRIC UNIONS OR APPROVED METHOD.
4. ISOLATE ALL COPPER PIPING FROM DISSIMILAR SUPPORTS.
5. REFRIGERANT PIPING SHALL BE TYPE L OR REFRIGERATION SERVICE COPPER TUBING WITH BRAZED JOINTS. PIPING TO BE SEALED AT BOTH ENDS UNTIL INSTALLED ON SITE.
6. CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT IS TO BE TRAPPED AND ROUTED TO THE NEAREST FLOOR DRAIN OR SERVICE SINK UNLESS OTHERWISE SHOWN. CONDENSATE PIPING IS TO BE SCHEDULE 40 PVC (EXCEPT INSULATED COPPER IN HVAC PLENUMS). CONDENSATE TO BE PUMPED AS REQUIRED. PVC CONDENSATE PIPING EXPOSED TO WEATHER SHALL BE UV PROTECTED PER MANUFACTURER'S RECOMMENDATIONS.
7. ALL PIPING ABOVE GRADE IS TO BE SUPPORTED BY THE BUILDING STRUCTURE AND IS NOT TO REST ON CEILING TIERS OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS IS TO BE HUNG FROM THE TOP CHORDS OF THE JOISTS.
8. WHERE MAXIMUM OPERATING PRESSURE IS GREATER THAN 150 PSIG IN ANY SYSTEM, FURNISH AND INSTALL PRODUCTS, PIPING, VALVES, FITTINGS, AND ACCESSORIES WITH PRESSURE CLASSIFICATIONS THAT ARE SUITABLE FOR SERVICE.

F. OTHER MATERIAL

1. ALL OTHER MATERIAL, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE JOB, SHALL BE NEW AND FIRST QUALITY, FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

G. TESTING AND BALANCING

1. TEST & BALANCE TO BE CONDUCTED BY A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC), AND THEY SHALL SUBMIT FINAL SYSTEM PERFORMANCE REPORT TO THE ENGINEER FOR APPROVAL AND BEFORE THE FINAL INSPECTION. TAB REPORT SHALL INCLUDE A 'REPORT SUMMARY/REMARKS' SECTION IN ACCORDANCE WITH THE PROCEDURAL STANDARD THAT PROVIDES BOTH SYSTEM SET UP AND A SUMMARY OF DEFICIENCIES AS DEFINED BY THE PROCEDURAL STANDARD.
2. AFTER COMPLETION OF THE INSTALLATION WORK, TEST AND REGULATE ALL COMPONENTS OF THE NEW SYSTEMS TO THE SATISFACTION OF THE OWNER'S ENGINEERING REPRESENTATIVE.
3. AIR SYSTEM: ALL COMPONENTS SHALL BE TESTED AND ADJUSTED TO -0 TO +10%. REPORT SHALL INCLUDE SCHEDULED (NAMEPLATE) AND TESTED DATA. PROVIDE FAN/MOTOR RPM, AIR PRESSURE DROP FOR INDIVIDUAL COMPONENTS, TSP, ESP, CFM, VOLTAGE, AMPS, HP, AND SHEAVE SIZES (AS APPLICABLE) FOR ALL EQUIPMENT, AIR OUTLETS, AND AIR INLETS.

H. IDENTIFICATION

1. PROVIDE MANUFACTURER'S STANDARD PRE-PRINTED, SEMI-RIGID SNAP-ON OR PERMANENT ADHESIVE, PRESSURE-SENSITIVE VINYL PIPE MARKERS. COLOR CODE PIPE MARKERS TO COMPLY WITH ANSI A13.1.
2. INSTALL PIPE MARKERS ON EACH HVAC PIPING SYSTEM AND INCLUDE ARROWS TO SHOW NORMAL DIRECTION OF FLOW.
3. LOCATE PIPE MARKERS AND COLOR BANDS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES, MACHINE ROOMS, ACCESSIBLE MAINTENANCE SPACES (SHAFTS, TUNNELS, PLENUMS) AND EXTERIOR NON-CONCEALED LOCATIONS.
4. PROVIDE PLASTIC LAMINATE OR BRASS VALVE TAG ON EVERY VALVE, COCK AND CONTROL DEVICE IN EACH HVAC PIPING SYSTEM; EXCLUDE CHECK VALVES WITHIN FACTORY-FABRICATED EQUIPMENT UNITS, AND SHUT-OFF VALVES AT HVAC TERMINAL DEVICES AND SIMILAR ROUGH-IN CONNECTIONS OF END-USE FIXTURES AND UNITS.
5. PROVIDE MANUFACTURER'S STANDARD LAMINATED PLASTIC, COLOR CODED EQUIPMENT MARKERS. CONFORM TO THE FOLLOWING COLOR CODE: GREEN FOR COOLING; YELLOW FOR HEATING; YELLOW/GREEN FOR COMBINATION COOLING AND HEATING; BROWN FOR ENERGY RECLAMATION; BLUE FOR OTHER EQUIPMENT TYPES. CONFORM TO ANSI A13.1 FOR HAZARDOUS EQUIPMENT.
6. PROVIDE STENCILED SIGNS FOR EQUIPMENT IDENTIFICATION AT CONTRACTOR'S OPTION OR WHERE DISTANCE OF REQUIRED IDENTIFICATION REQUIRES LETTERING LARGER THAN 1 INCH HEIGHT. STENCIL PAINT SHALL BE EXTERIOR TYPE, OIL-BASED, ALKYL ENAMEL, MINIMUM 1-1/4 INCH HEIGHT OR GREATER AS REQUIRED FOR LONG DISTANCE IDENTIFICATION, WHITE OR BLACK COLOR FOR BEST CONTRAST.

I. RELATED WORK

1. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL POWER WIRING AND EQUIPMENT DISCONNECTS, UNLESS INCLUDED WITH EQUIPMENT, TO MAKE SYSTEM OPERATIONAL.

J. HVAC COMPLIANCE NOTES

1. HEATING AND COOLING TO EACH ZONE IS CONTROLLED BY A THERMOSTAT CONTROL.
2. ALL HVAC SYSTEMS TO INCLUDE OPTIMUM START CONTROLS.
3. INSULATE ALL PIPING EXPOSED TO WEATHER. INSULATION TO PROTECT FROM DAMAGE DUE TO SUN, MOISTURE, WIND, ETC.
4. THERMOSTATIC CONTROLS TO HAVE A 5 DEGREE DEADBAND AND TEMPERATURE CONTROLS TO HAVE SETPOINT OVERLAP RESTRICTIONS.
5. EQUIP EACH ZONE WITH SETBACK CONTROLS USING PROGRAMMABLE CONTROL SYSTEM.
6. AUTOMATIC CONTROLS; SETBACK TO 85 F (COOL), 7-DAY CLOCK, 2-HOUR OCCUPANT OVERRIDE, 10-HOUR BACKUP.

CONSTRUCTION PLANS

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KHA PROJECT
048104001

DATE _____

SEP 30, 2022

SCALE: AS SHOWN

SIGNED BY: JCL

AWN BY: JCD

SOUTH WATER RECLAMATION FACILITY HEADWORKS

PREPARED FOR

ENGLEWOOD WATER DISTRICT

LICENSED PROFESSIONAL:

JEFF SMITH, P.E.

FL LICENSE NUMBER
90923

DATE:

MECHANICAL SPECIFICATIONS

SHEET NUMBER

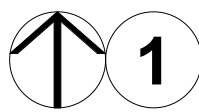
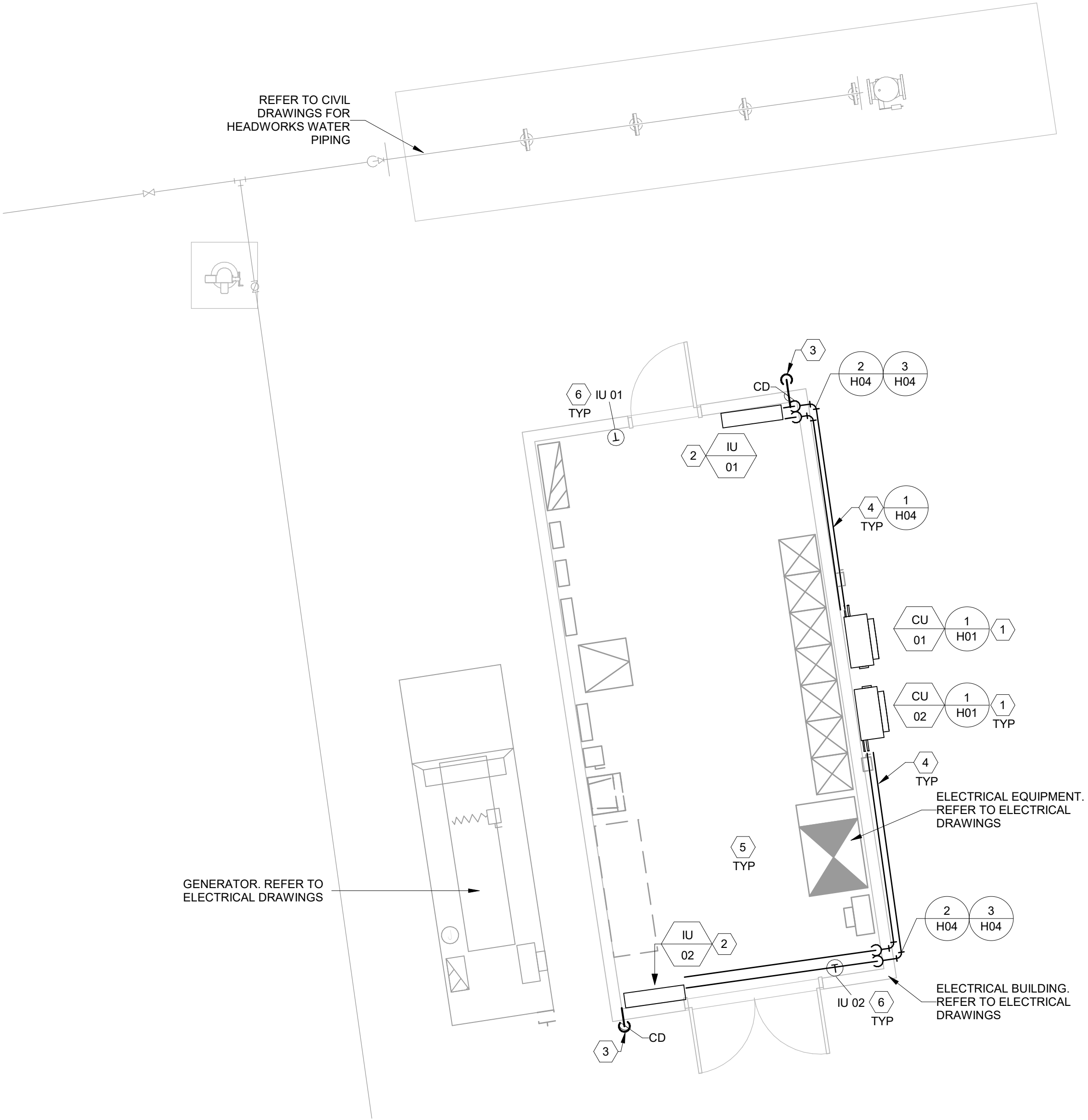
H02

GENERAL NOTES:

1.
- REFRIGERANT PIPING SIZED AND ROUTED PER MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS.
2.
- DX SPLIT SYSTEM(S) (IU/CU-1 & 2) SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE SETPOINT 24/7 FOR ELECTRICAL ROOM. THE DX UNIT SHALL BE IN OCCUPIED MODE 24/7 TO MAINTAIN SPACE TEMPERATURE SETPOINTS 80F (ADJ) DEADBAND.

KEYNOTES

1.
- INSTALL NEW OUTDOOR CONDENSING UNIT PER LOCATIONS ON PLANS, WALL HUNG ON SIDE OF BUILDING. ROUTE, SIZE, AND INSTALL REFRIGERANT PIPING PER MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS. PROVIDE TIE-DOWN STRAPS AS REQUIRED FOR HIGH WINDS.
2.
- INSTALL NEW INDOOR DX WALL MOUNTED UNIT PER LOCATIONS ON PLANS, ROUTE, SIZE, AND INSTALL REFRIGERANT PIPING PER MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS.
3.
- ROUTE AND DISCHARGE CONDENSATE DRAIN TO EXTERIOR GRADE. TERMINATE 6" ABOVE FINISHED GRADE, AVOID WALKWAYS AND EQUIPMENT.
4.
- ROUTE REFRIGERANT PIPING ALONG WALL(S) TO AVOID ROUTING OVER ELECTRICAL EQUIPMENT. SEAL WALL PENETRATIONS PER DETAILS, PROVIDE JACKETING OVER PIPING INSULATION FOR PROTECTION.
5.
- DO NOT ROUTE DUCTWORK OR PIPING OVER ELECTRICAL EQUIPMENT OR PANELS. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT LOCATIONS (TYP).
6.
- PROVIDE THERMALLY INSULATED BACKPLATE FOR THERMOSTAT MOUNTING TO EXTERIOR WALL (TYP).



MECHANICAL HVAC PLAN - ELECTRICAL ROOM

1/4" = 1'-0"

CONSTRUCTION PLANS

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KHA PROJECT 048104001
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DESIGNED BY: JCD
DRAWN BY: JCD
CHECKED BY: JDS

SOUTH WATER RECLAMATION FACILITY
HEADWORKS

PREPARED FOR

ENGLEWOOD WATER DISTRICT

LICENSED PROFESSIONAL:
JEFF SMITH, P.E.
FL LICENSE NUMBER 90923
DATE:

MECHANICAL HVAC PLAN

SHEET NUMBER

H03

SPLIT SYSTEM - INDOOR FAN COIL UNIT

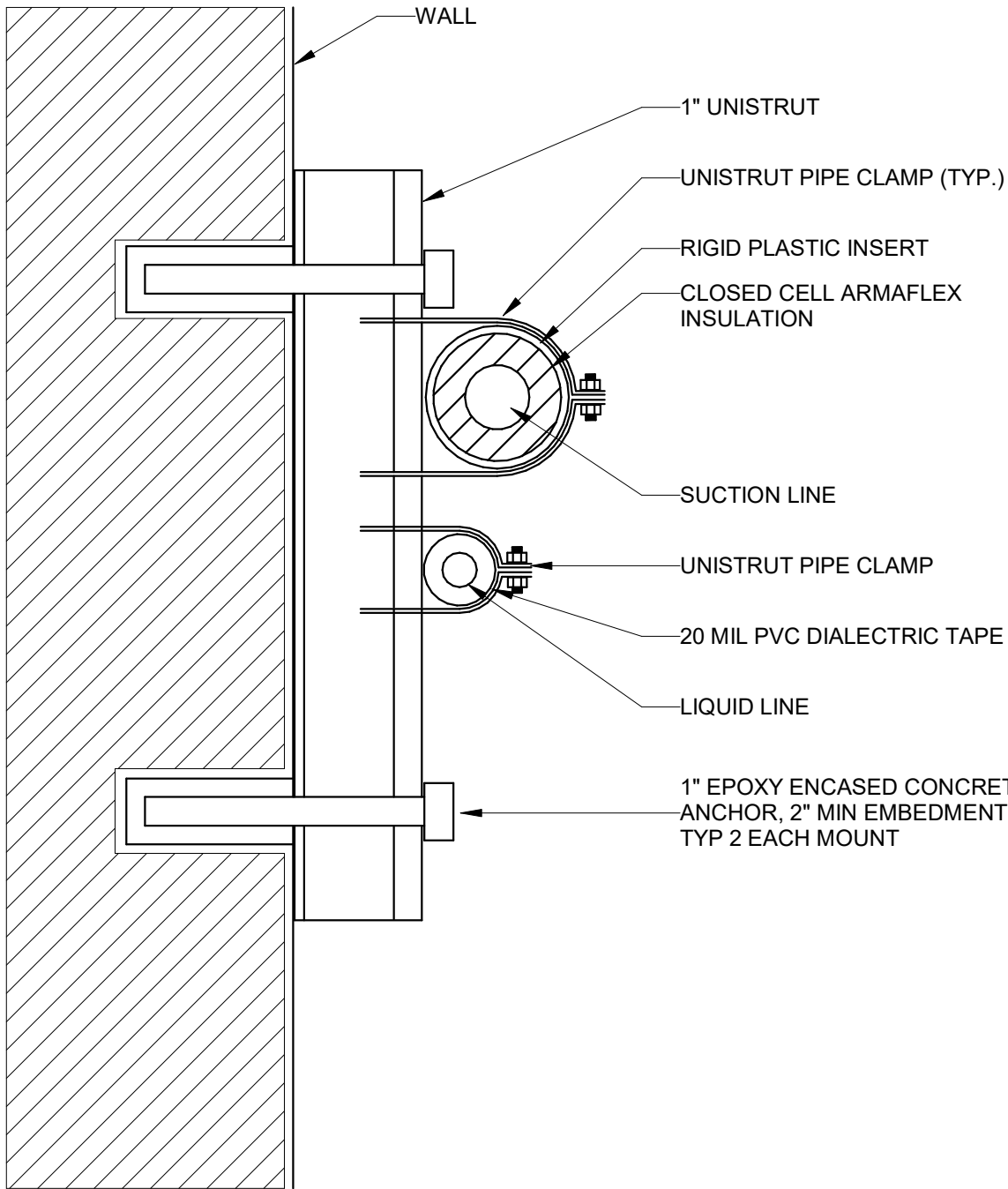
- NOTES:
1. CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
 2. SELECT EQUIPMENT FOR ELEVATION OF 16.5 FEET ABOVE SEA LEVEL.
 3. EQUIPMENT SIZED FOR SUMMER AMBIENT OF 95°F AND WINTER AMBIENT OF 40°F.
 4. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR EVAPORATOR SECTION AND CONDENSING SECTION.
 5. PROVIDE WITH WALL MOUNTED THERMOSTAT BY UNIT MANUFACTURER.
 6. ROUTE CONDENSATE DRAIN TO EXTERIOR, AVOID ELECTRICAL EQUIPMENT.
 7. PROVIDE CONDENSER COIL HAIL GUARDS.
 8. INDOOR UNIT (EVAPORATOR) SHALL BE POWERED FROM OUTDOOR UNIT (CONDENSER). PROVIDE SINGLE POINT POWER CONNECTION AT CONDENSING UNIT.
 9. PROVIDE LOW AMBIENT CONTROL TO 40°F.

MARK	UNIT TYPE	LOCATION	SUPPLY FAN				COOLING COIL					HEATING COIL	ELECTRICAL					ASSOCIATED UNIT	WEIGHT	MANUFACTURER	MODEL	NOTES
			AIRFLOW (CFM)	MOTOR HP	DISCONNECT BY	DISCONNECT TYPE	TOTAL CAP (MBH)	SENS CAP (MBH)	EAT DB (°F)	EAT WB (°F)	SEER	TOTAL CAP (MBH)	VOLTAGE	PHASE	HZ	MCA	MOCP					
IU-01	HEAT PUMP	ELEC RM	810	0.075	EC	NON-FUSED	30.0	30.0	80.0	67.0	19	32.0	208 V	1	60 Hz	1 A	15 A	CU-01	55 lb	mitsubishi	PKA-A30	1 THRU 9
IU-02	HEAT PUMP	ELEC RM	810	0.075	EC	NON-FUSED	30.0	30.0	80.0	67.0	19	32.0	208 V	1	60 Hz	1 A	15 A	CU-02	55 lb	mitsubishi	PKA-A30	1 THRU 9

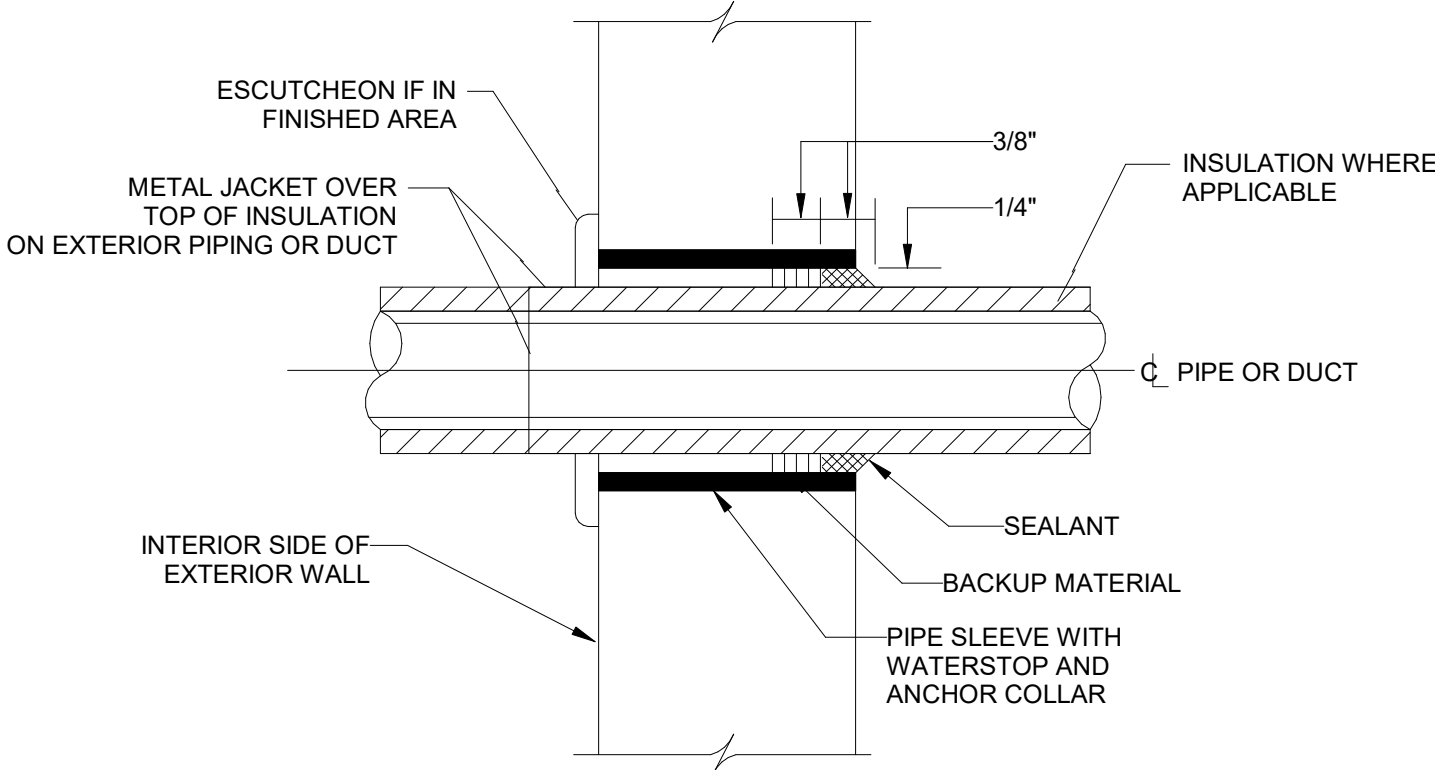
SPLIT SYSTEM - OUTDOOR CONDENSING UNIT SCHEDULE

- NOTES:
1. PROVIDE LOW AMBIENT CONTROL TO 40°F.
 2. EQUIPMENT SIZED FOR 95°F AMBIENT TEMPERATURE.
 3. COORDINATE WITH THE MANUFACTURER THE HORIZONTAL AND VERTICAL REFRIGERANT PIPE ROUTING TO DETERMINE PIPE SIZES FOR THE REFRIGERANT PIPING. MANUFACTURER SHALL PROVIDE DETAILED REFRIGERANT PIPING DIAGRAMS INCLUDING DIMENSIONAL DATA FOR ALL REFRIGERANT PIPING DEVICES. THE MANUFACTURER SHALL SIZE AND LOCATETHE ASSOCIATED REFRIGERANT TRAPS BASED ON THE ACTUAL ROUTING AND PROVIDE OTHER APPURTENANCES TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM. COORDINATE WITH THE MANUFACTURER LOCATIONS FOR ALL REFRIGERANT PIPING DEVICES TO MAINTAIN SERVICEABILITY AND ACCESSIBILITY.
 4. PROVIDE LIQUID LINE FILTER DRYER AND SIGHT GLASS.
 5. MOUNT ON CONCRETE PAD, REFER TO CIVIL DRAWINGS.
 6. DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
 7. STARTERS FOR ALL MOTORS SHALL BE PROVIDED INTEGRAL WITH UNIT.
 8. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
 9. PROVIDE CONDENSER COIL HAIL GUARDS.
 10. SELECT EQUIPMENT FOR ELEVATION OF 17 FEET ABOVE SEA LEVEL.
 11. COORDINATE NUMBER OF CIRCUITS PROVIDED WITH NUMBER OF CONNECTIONS ON DX COIL SERVED.

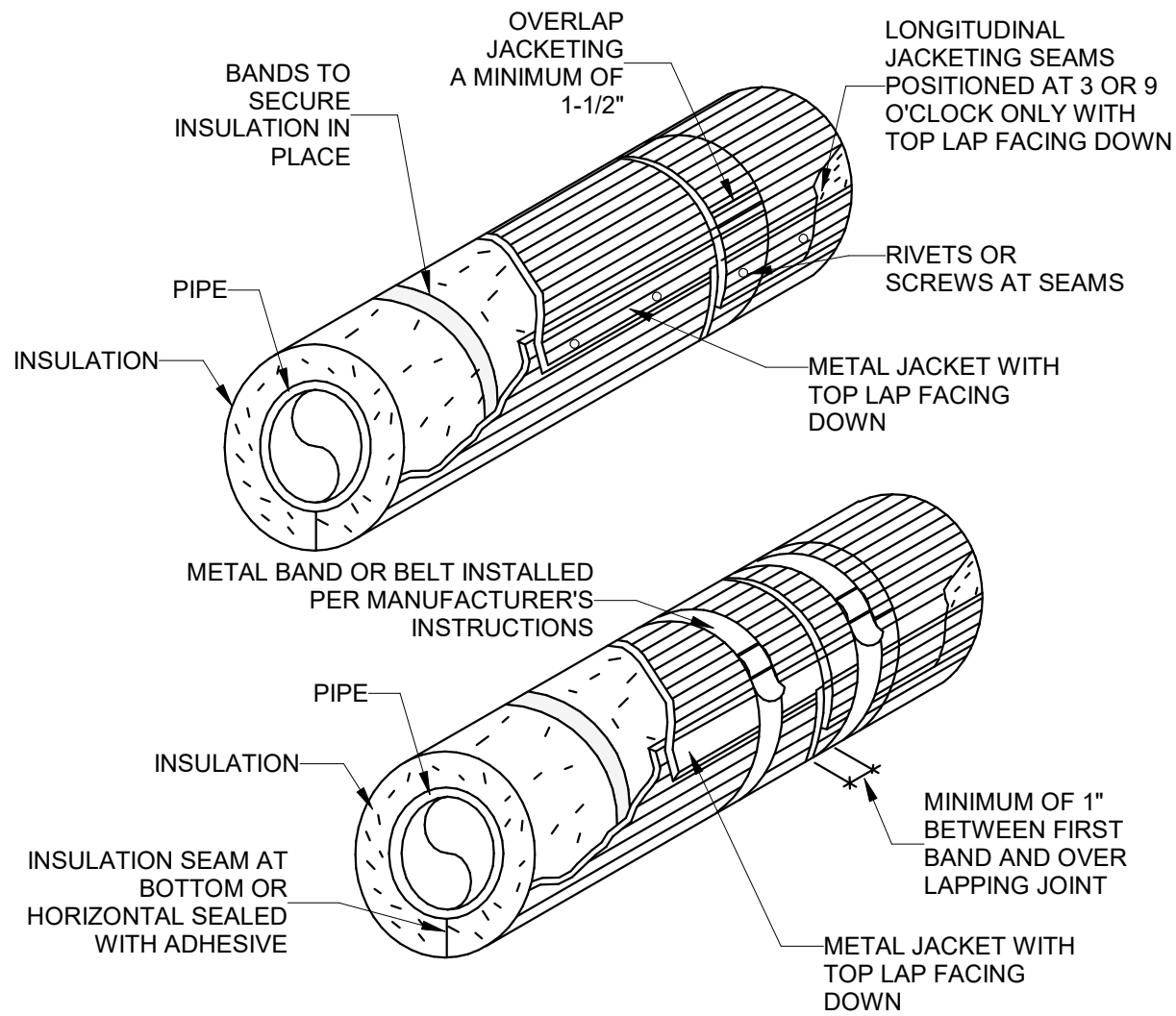
MARK	LOCATION	COOLING					HEATING		ELECTRICAL							ASSOCIATED UNIT	WEIGHT	MANUFACTURER	MODEL	NOTES
		TOTAL CAP (MBH)	SUMMER AMBIENT		SEER	REFR. TYPE	TOTAL CAP (MBH)	WINTER AMBIENT DB (°F)	VOLTAGE	PHASE	HZ	MCA	MOCP	DISCONNECT						
			DB (°F)	WB (°F)										BY	TYPE					
CU-01	EXT. ELEC RM	30.0	95.0	77.0	19	R-410A	32.0	40.0	208 V	1	60 Hz	19 A	26 A	EC	NON-FUSED	IU-01	160 lb	mitsubishi	PUZ-A30	1 THRU 11
CU-02	EXT. ELEC RM	30.0	95.0	77.0	19	R-410A	32.0	40.0	208 V	1	60 Hz	19 A	26 A	EC	NON-FUSED	IU-02	160 lb	mitsubishi	PUZ-A30	1 THRU 11



1 PIPE MOUNTING ALONG WALL
N.T.S



2 DUCT/PIPE THRU EXTERIOR WALL
N.T.S



3 EXTERIOR PIPING WITH METAL JACKETING OVER INSULATION DETAIL
N.T.S

CONSTRUCTION PLANS

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H04

