

# EDINBURG CISD

## MEMORIAL MIDDLE SCHOOL

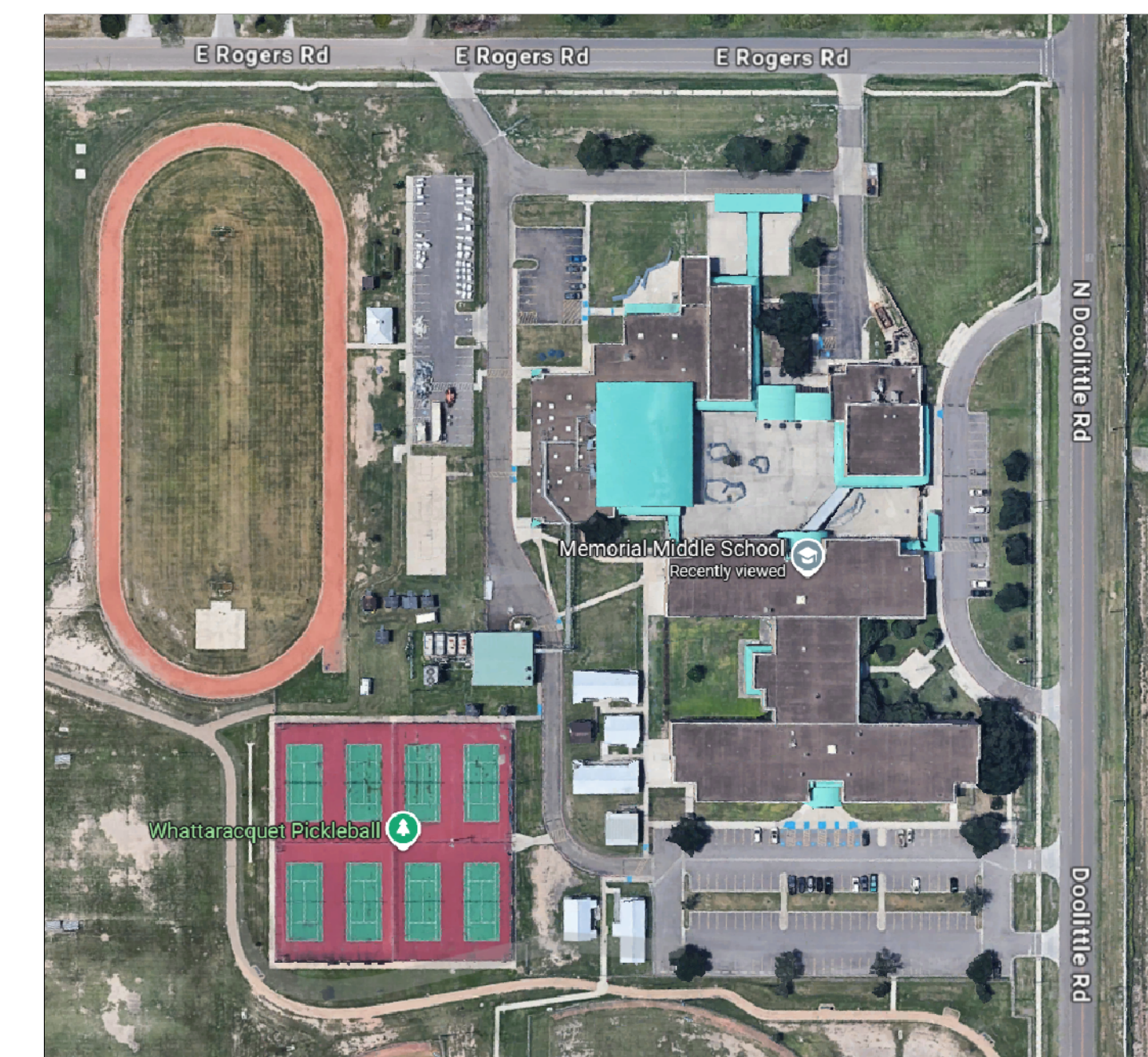
### CHILLER REPLACEMENT

EDINBURG, TEXAS

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3105 N. DOOLITTLE RD, EDINBURG, TX. 78542

VICINITY MAP

NORTH

#### SCHEDULE OF DRAWINGS

##### COVER SHEETS

CS1.0 - COVER SHEET

##### DEMOLITION

DM1.0 - DEMO MECHANICAL SITE PLAN  
 DM1.1 - DEMO MECHANICAL FLOOR PLAN

##### MECHANICAL

M1.0 - MECHANICAL SITE PLAN  
 M1.1 - MECHANICAL FLOOR PLAN  
 M2.1 - MECHANICAL SCHEDULES

##### ELECTRICAL

E1.1 - ELECTRICAL POWER FLOOR PLAN  
 E2.1 - ELECTRICAL SPECS, SCHEDULES & DETAILS

JOB NO.	25085
DATE	02/12/2026
REVISIONS	
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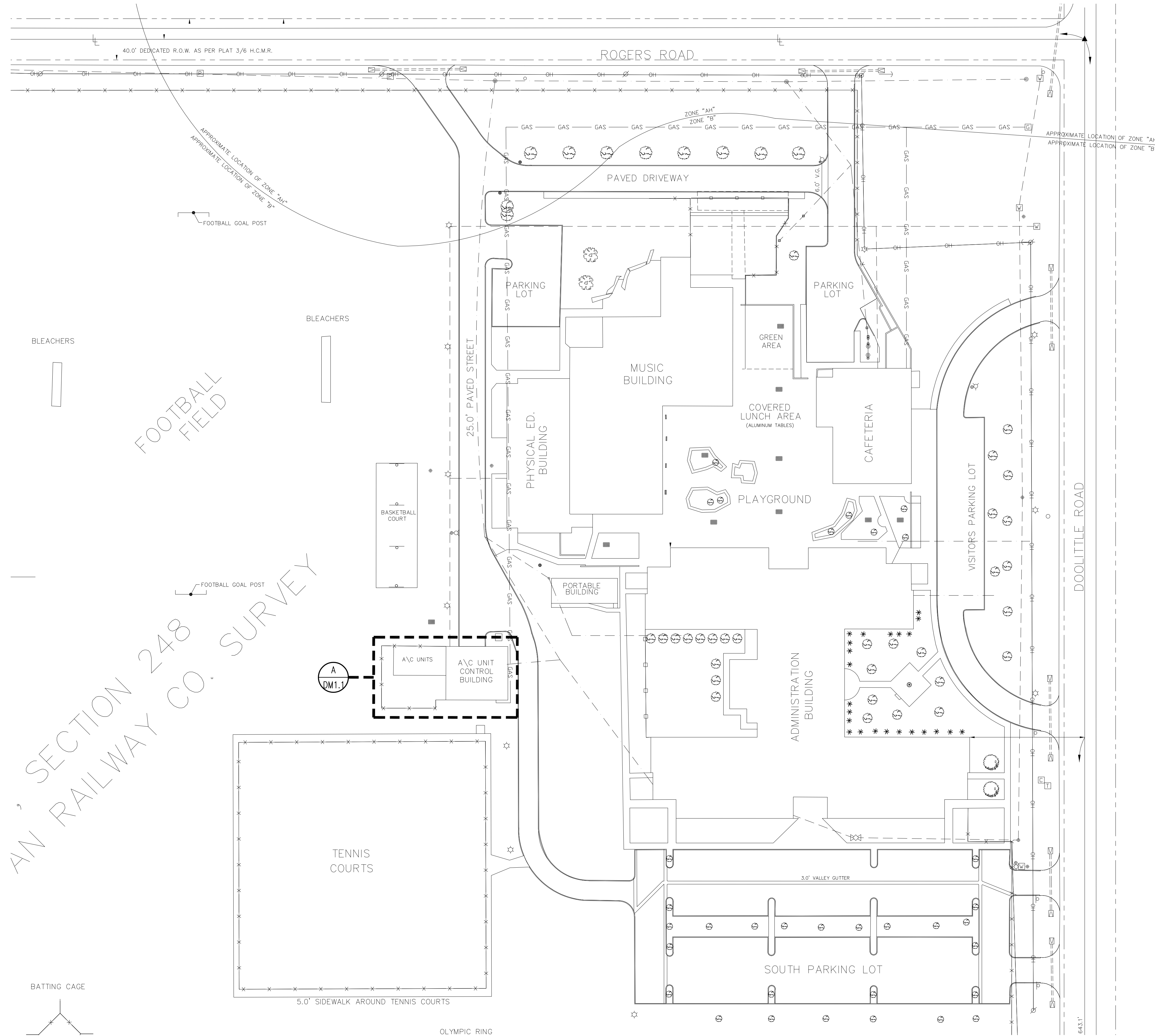
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**MEP SOLUTIONS**  
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 TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

SHEET

CS1.0



**GENERAL DEMOLITION NOTES:**

- A. INFORMATION ON THE PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.
- B. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.
- C. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWS WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING, OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.
- D. CONTRACTOR SHALL REMOVE AND RELOCATE ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER SPECIFIED LOCATION(S). OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC. SHALL BECOME THE PROPERTY AND RESPONSIBILITY OF THE CONTRACTOR.
- E. EXISTING MECHANICAL EQUIPMENT CHARGED WITH REFRIGERANT AND SCHEDULED FOR REMOVAL OR DEMOLITION SHALL BE DISPOSED OF IN A LEGAL MANNER.

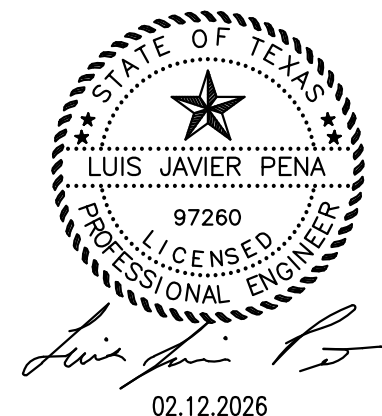
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**ECISD MEMORIAL MIDDLE SCHOOL  
CHILLER REPLACEMENT**

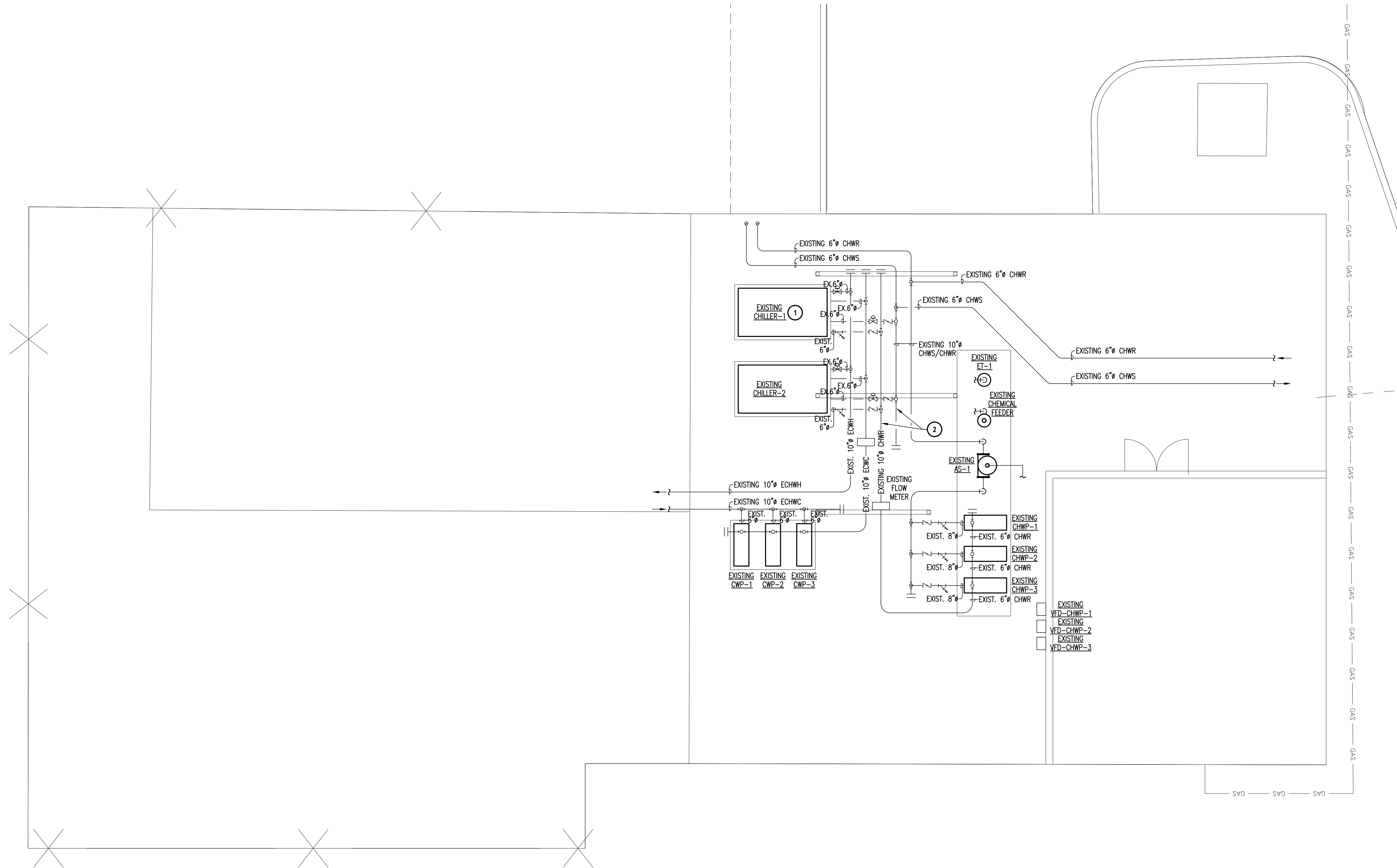
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**A DEMO-MECHANICAL SITE PLAN**  
SCALE: 1" = 50'-0"



**GENERAL DEMOLITION NOTES:**

- A. INFORMATION ON THE PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.
- B. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.
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- E. EXISTING MECHANICAL EQUIPMENT CHARGED WITH REFRIGERANT AND SCHEDULED FOR REMOVAL OR DEMOLITION SHALL BE DISPOSED OF IN A LEGAL MANNER.

**DEMOLITION KEY NOTES:**

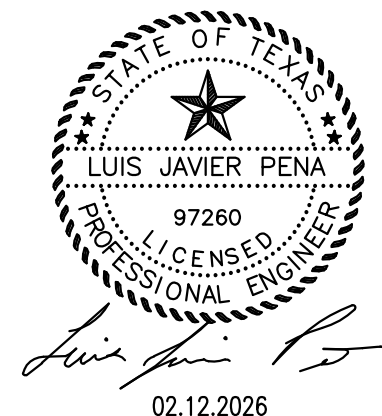
- 1. EXISTING CHILLER TO BE REMOVED AND REPLACED WITH NEW. REMOVE ASSOCIATED PIPE RISERS (INCLUDING HYDRONIC ACCESSORIES) SERVING EVAPORATOR AND CONDENSER BARREL TO ALLOW REMOVAL OF CHILLER UNIT. EXISTING HYDRONIC ACCESSORIES AND CONTROL SENSORS SHALL BE RE-USED IN REASSEMBLY. REFER TO MECHANICAL PLAN.
- 2. PREPARE EXISTING 10" CHILLED WATER SUPPLY/RETURN LINES FOR NEW 6" BRANCH LINES TO SERVE AS TEMPORARY HOOK-UPS. REFER TO MECHANICAL PLAN.

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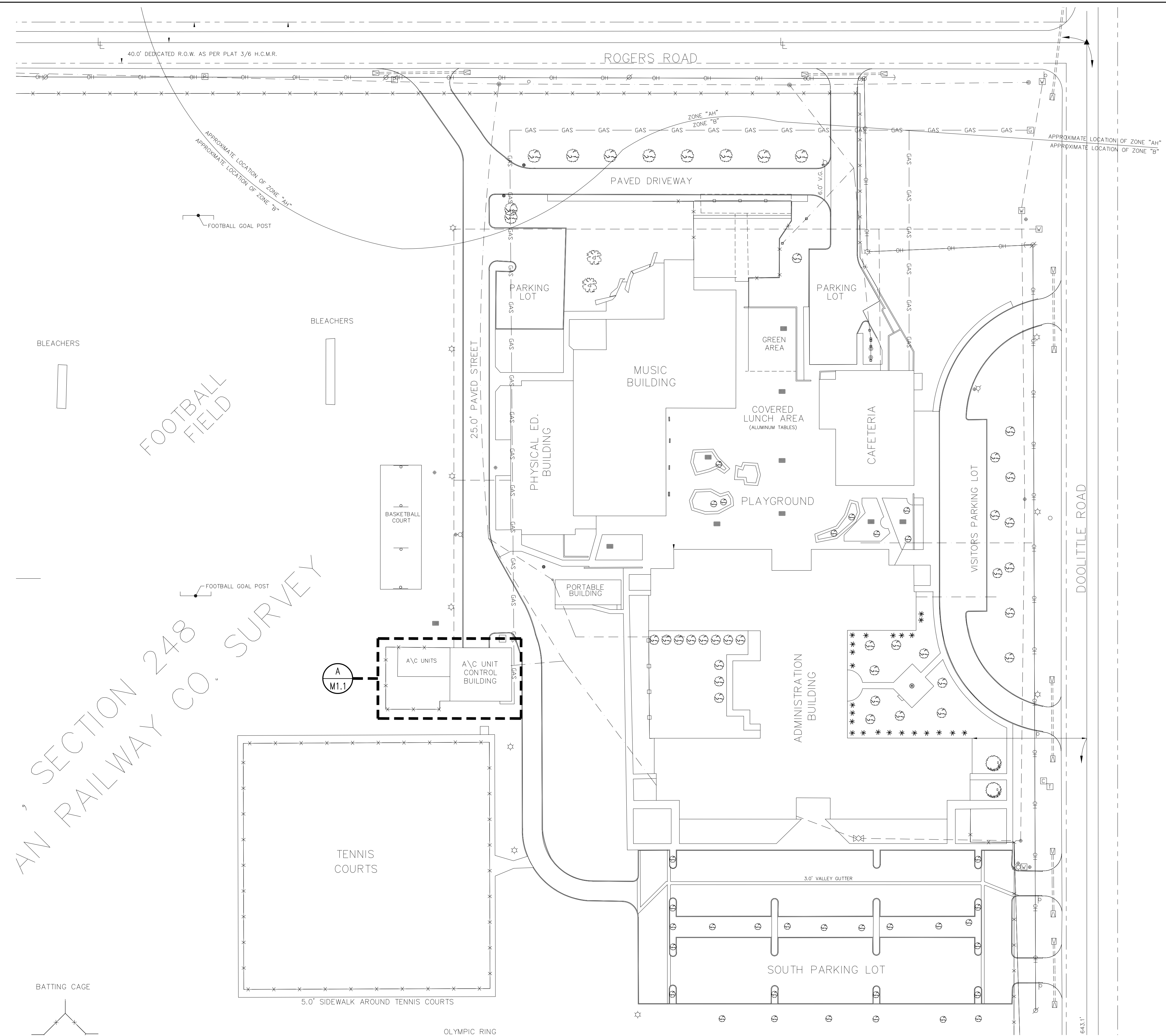
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**DEMOMECHEANICAL FLOOR PLAN**  
 SCALE: 3/16" = 1'-0"



SHEET  
**DM1.1**



MONTE CRISTO INN & COUNTRY CLUB  
(VOL. 19, P.C.S., H.C.M.R.)

**GENERAL NOTES:**

- A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL MECHANICAL NOTES.
- B. CHILLED WATER LINES LOCATED IN MECHANICAL ROOMS SHALL BE PROVIDED WITH PVC JACKET OVER INSULATION AND LABELED.
- C. CHILLED WATER LINED LOCATED ABOVE ACCESSIBLE CEILING SHALL BE LABELED.
- D. CHILLED WATER HYDRONIC ACCESSORIES WHICH INCLUDE BALANCING VALVES, ISOLATION VALVES, CHECK VALVES, STRAINERS, AND CIRCUIT SETTERS SHALL BE OF EQUAL SIZE AS THE BRANCH LINE SERVING EACH UNIT.
- E. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.
- F. CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR ALL MECHANICAL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILING.
- G. CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORTS FOR ALL MECHANICAL EQUIPMENT SUSPENDED FROM STRUCTURE.
- H. CONTRACTOR SHALL COORDINATE ALL ROOF PENETRATIONS AND ROOFING WORK WITH ROOFING CONTRACTOR AS REQUIRED TO MAINTAIN ROOF WARRANTY.
- I. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRANSITIONS FROM MECHANICAL EQUIPMENT TO PIPING DISTRIBUTION. VERIFY EQUIPMENT CONNECTION SIZE WITH SCHEDULE OR MANUFACTURER.
- J. CONTRACTOR SHALL PROVIDE PIPE SLEEVE(S) AT ALL PIPE PENETRATIONS THRU WALLS AND FOUNDATION; REFER TO SPECIFICATIONS.
- K. NEW HOT WATER/CHILLED WATER PIPING SHALL BE FLUSHED (CLEANED WITH DETERGENT) AND TREATED WITH CORROSION INHIBITOR PRIOR TO CONNECTION OF HEAT-EXCHANGER(S). PROVIDE TEMPORARY PVC CONNECTIONS BETWEEN SUPPLY/RETURN BRANCHES TO ALLOW FLUSHING OF SYSTEM WITHOUT FOULING OF HEAT-EXCHANGER(S).

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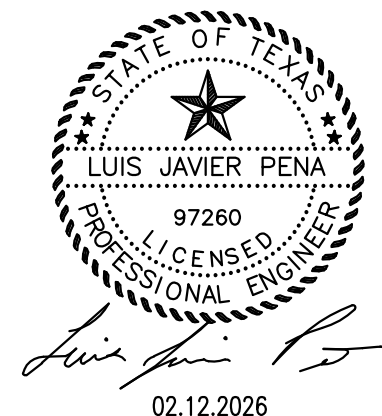
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SHEET

**M1.0**

**A MECHANICAL SITE PLAN**  
SCALE: 1" = 50'-0"



02.12.2026

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SHEET

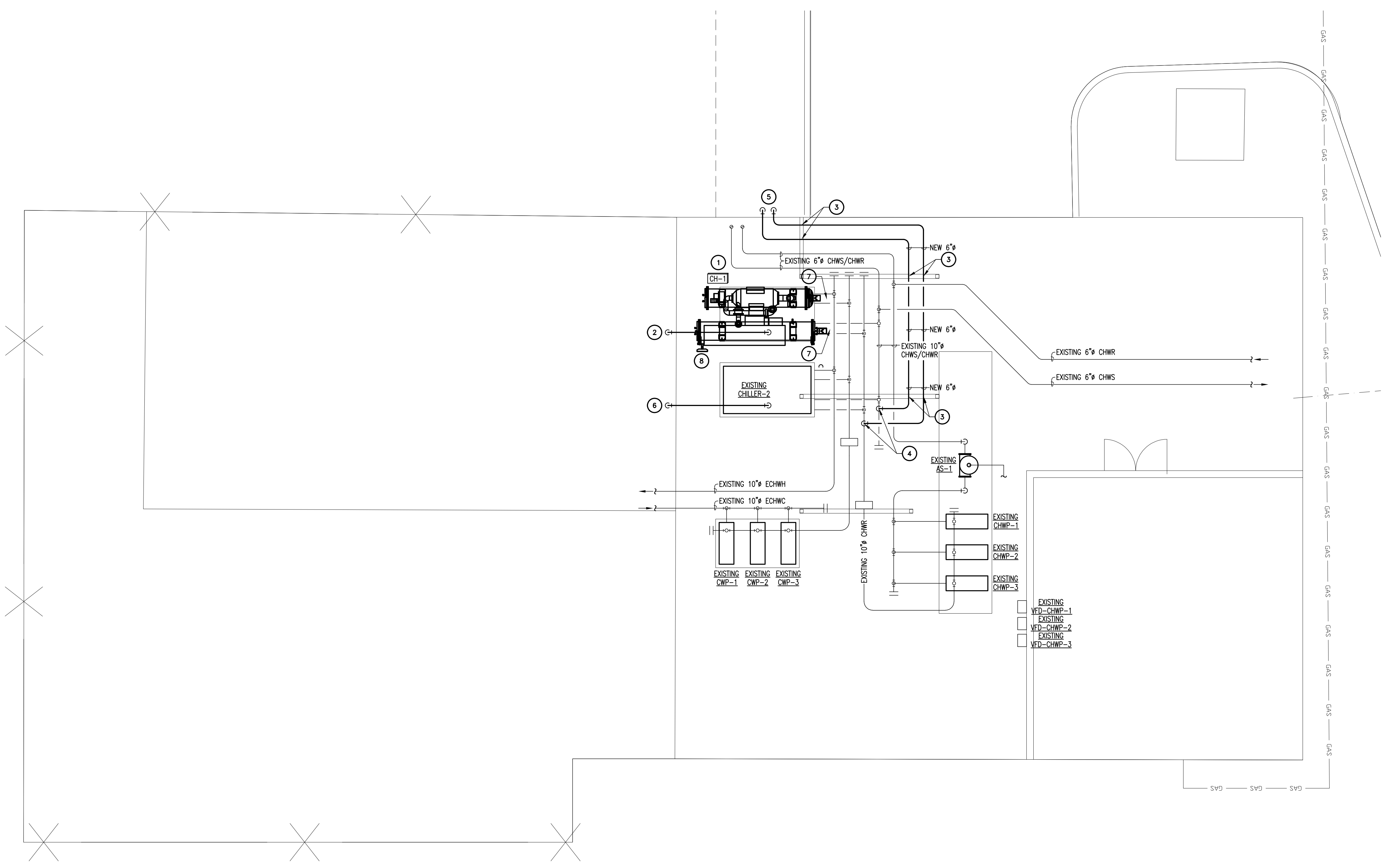
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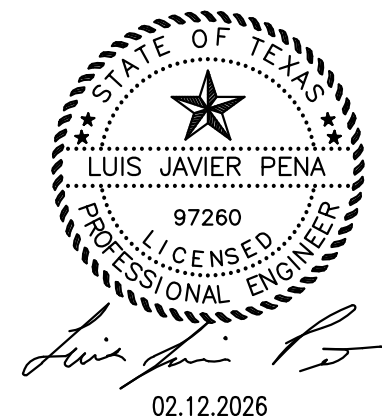
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**KEY NOTES:**

- 1. NEW CHILLER TO BE MOUNTED ONTO EXISTING HOUSEKEEPING PAD. CONNECT NEW CHILLER ONTO EXISTING 6" CONDENSER WATER LINES AND 6" CHILLED WATER LINES. FURNISH NEW THERMO WELLS AND PRESSURE GAUGES ONTO EXISTING RISERS. RE-USED EXISTING ISOLATION VALVES, MOTORIZED VALVES, AND SENSORS.
- 2. PROVIDE AND INSTALL 3" TYPE ACR COPPER HARD DRAWN RELIEF VALVE PIPING AND ROUTE TO EXTERIOR WALL. PROVIDE BRANCH CONNECTIONS TO EACH REFRIGERANT RELIEF VALVE (EVAPORATOR AND CONDENSER).
- 3. PROVIDE AND INSTALL ADJUSTABLE PIPE ROLLER STAND (AS MANUFACTURED FROM "ALLIED CORROSION INDUSTRIES") TO BE MOUNTED ONTO THE TOP SIDE OF THE EXISTING BEAM SUPPORT. MAKE MODIFICATIONS TO EXISTING I-BEAM AS REQUIRED TO ACCOMMODATE SUPPORTS. SUPPORTS SHALL CARRY NEW 6" DISTRIBUTION PIPING.
- 4. PROVIDE AND INSTALL NEW 6" CHILLED WATER EMERGENCY CONNECTION LINES AND CONNECT TO EXISTING 10" CHILLED WATER SUPPLY/RETURN MAINS. CONNECTIONS SHALL BE ON THE TOP SIDE OF THE EXISTING PIPES. ROUTE LINES TO THE EXTERIOR WALL AS SHOWN.
- 5. ROUTE CHILLED WATER LINES THRU EXTERIOR WALL. FURNISH PIPE SLEEVES AT EACH PENETRATION. DROP DOWN LINES ALONG EXTERIOR WALL AND TERMINATE WITH 90-ELBOW, ISOLATION VALVE, SHORT PIPE EXTENSION, AND BLIND-FLANGE TO ALLOW EMERGENCY HOOK-UP OF TEMPORARY CHILLER. LOCATE PIPING 4-FT ABOVE FINISHED GRADE.
- 6. PROVIDE AND INSTALL 3" TYPE ACR COPPER HARD DRAWN RELIEF VALVE PIPING ROUTED TO THE EXTERIOR WALL. PROVIDE BRANCH CONNECTIONS TO EACH VALVE, EVAPORATOR, AND CONDENSER. FIELD VERIFY POINT OF CONNECTION ONTO EXISTING CHILLER.
- 7. PROVIDE NEW CHILLED/CONDENSER WATER PIPE STANDS AT 90-DEGREE ELBOWS WHERE CHILLED WATER LINES ENTER CHILLER FRAME (4 TYPICAL).
- 8. NEW CHILLER SHALL TIE-INTO EXISTING ENERGY MANAGEMENT SYSTEM SERVING FACILITY (JOHNSON CONTROLS - METASYS). FURNISH ALL GRAPHIC DISPLAY VARIABLES TO MATCH THOSE SERVING EXISTING REMAINING CHILLER. FIELD VERIFY.



**A MECHANICAL FLOOR PLAN**  
SCALE: 3/16" = 1'-0"



02.12.2026

### GENERAL MECHANICAL NOTES

- THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION EFFORTS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS.
- CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK TIGHT WITH THE BUILDING STRUCTURE TO ACCOMMODATE CEILINGS. CONTRACTOR SHALL COORDINATE INSTALLATION WORK WITH ALL OTHER TRADES. ALL DUCTWORK SHALL BE MODIFIED AS REQUIRED TO FIT AROUND BUILDING STRUCTURES.
- CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS AS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS AND INDIVIDUAL DIFFUSER DAMPERS.
- CONTRACTOR SHALL MOUNT ALL THERMOSTATS 48-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE THE FINAL LOCATION OF EACH THERMOSTAT WITH ROOM FINISHES. PROVIDE ALL CONTROL VOLTAGE WIRING FOR THERMOSTAT INSTALLATION.
- CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF ALL CEILING AIR DEVICES WITH LIGHTING INSTALLATIONS AND ARCHITECTURAL CEILING PLANS. AIR DEVICES SHALL BE RELOCATED IF REQUIRED TO AVOID OBSTRUCTION WITH DUCTWORK AND LIGHT FIXTURES.
- PROVIDE SMOKE DETECTORS AND SHUTDOWN CONTROLS ON AIR HANDLING UNITS. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED, AND WIRED FOR SHUTDOWN BY DIVISION 16.

### GENERAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	KW	KILOWATTS
AHU	AIR HANDLING UNIT	L	LOUVER
ACCU	AIR COOLED CONDENSING UNIT	MAX	MAXIMUM
DB	DRY BULB	MIN	MINIMUM
EDH	ELECTRIC DUCT HEATER	NTS	NOT TO SCALE
EF	EXHAUST FAN	OPD	OPPOSED BLADE DAMPER
FCU	FAN COIL UNIT	S.P.	STATIC PRESSURE
FCCU	FAN COOLED CONDENSING UNIT	WB	WET BULB

### MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊙	TEMPERATURE SENSOR	⊠	EXHAUST AIR DUCT
⊠	SUPPLY AIR DEVICE (SEE SCHEDULE)	⊠	RETURN AIR DUCT
⊠	RETURN/TRANSFER AIR DEVICE (SEE SCHEDULE)	⊠	SUPPLY AIR DUCT
⊠	EXHAUST FAN (SEE SCHEDULE)	X/X	DUCT INTERNAL DIMENSIONS (WIDTH/DEPTH)
⊠	RECTANGULAR DUCT TRANSITION	⊠	ROUND BRANCH DUCT WITH MANUAL BALANCING DAMPER
⊠	ROUND FLEX DUCT	⊠	ROOF TOP UNIT (SEE SCHEDULE)
⊙ <sub>AVG.</sub>	AVERAGING TEMPERATURE SENSOR	⊠	THERMOSTAT

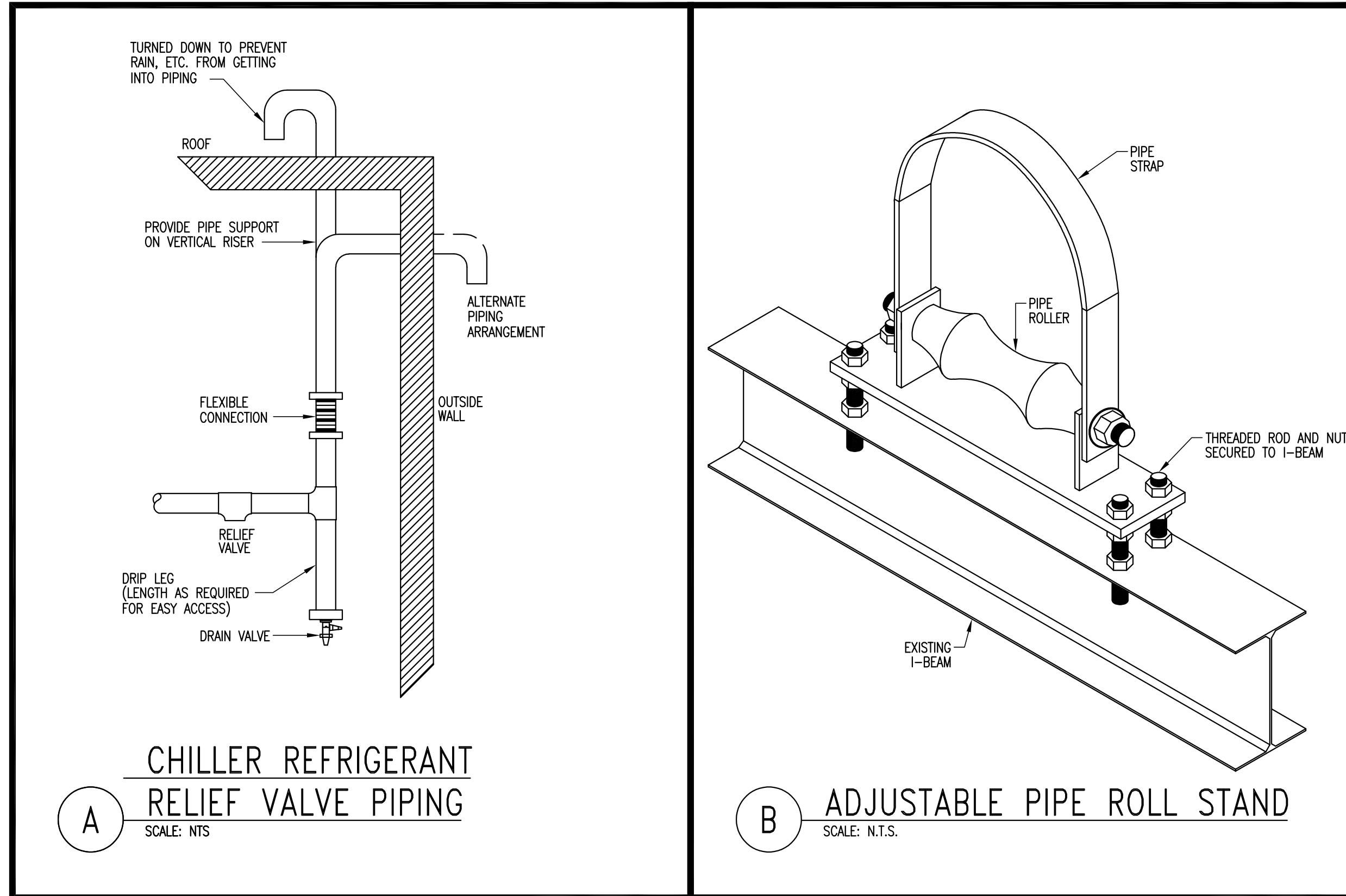
### HVAC SPECIFICATION

- CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BIDDING OR BEGINNING WORK.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND NOTIFY AUTHORITIES FOR INSPECTIONS.
- CONTRACTOR SHALL PROVIDE A FULLY FUNCTIONAL HVAC SYSTEM TO INCLUDE DUCTWORK, DIFFUSERS AND GRILLES, INSULATION, THERMOSTATS/SENSORS, SUPPLY/EXHAUST FANS, INTERCONNECTING REFRIGERANT LINES, FILTERS, DAMPERS, INTAKE/RELIEF HOODS, ROOF CURBS, AIR CONDITIONING UNITS, AND ANY REQUIRED HANGERS/SUPPORTS.
- WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- CONTRACTOR SHALL INSTALL FIRE-STOPPING ON ALL PENETRATIONS THRU FIRE-RATED ASSEMBLIES.
- ALL DUCTWORK SHALL BE DESIGNED, MANUFACTURED, AND TESTED IN ACCORDANCE WITH THE LATEST APPLICABLE INDUSTRY STANDARDS INCLUDING THE FOLLOWING:  
SMACNA "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"  
ASTM A924/A924M-94, A653-G-65, AND E84  
NFPA 90A, 96, AND 255  
UL 181, 555, 555, AND 723  
DUCT METAL THICKNESS, REINFORCING TYPES AND INTERVALS, AND JOINT TYPES AND INTERVALS SHALL ALSO COMPLY WITH THE REQUIREMENT OF THE ABOVE ORGANIZATIONS.  
  
DUCT PRESSURE CLASS SHALL BE 3" W.G. FOR SUPPLY DUCTS FROM UNIT TO VAV BOXES. RETURN, EXHAUST, AND SUPPLY DUCTS LOCATED DOWNSTREAM OF VAV BOXES SHALL BE 1" W.G.  
  
DUCT INSULATION SHALL BE 2-INCH THICK MINERAL-FIBER BLANKET WITH 1.5-LB/CU.FT. NOMINAL DENSITY AND FACTORY APPLIED "FSK" JACKET (ALUMINUM-FOIL, FIBERGLASS-REINFORCED SCRM WITH KRAFT-PAPER BACKING.)
- CONTRACTOR SHALL PROVIDE RECORD "AS-BUILT" PRINTS TO THE OWNER.
- PROVIDE GRILLES, DIFFUSERS, AND DAMPERS IN SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.
- FIRE DAMPERS (1-1/2 HOUR) SHALL BE EQUAL TO RUSKIN MODEL "DIB02".
- SQUARE VOLUME DAMPERS SHALL BE EQUAL TO RUSKIN MODEL "MD25".
- ROUND VOLUME DAMPERS SHALL BE EQUAL TO RUSKIN MODEL "MORS25"

THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:

- 2018 INT'L BUILDING CODE
- 2018 INT'L MECHANICAL CODE
- 2018 INT'L PLUMBING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2018 INT'L ENERGY CONSERVATION CODE

ANY DISCREPANCY SHALL BE BROUGHT TO ENGINEERS ATTENTION.



### WATER CHILLER UNIT SCHEDULE

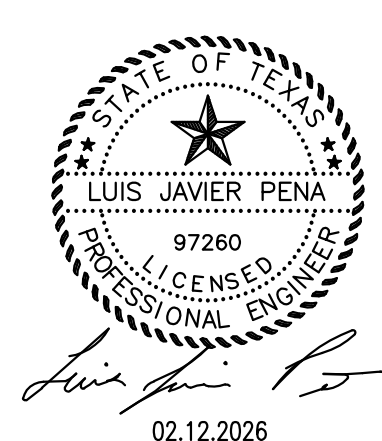
DESIGNATION	SYSTEM TYPE	CAPACITY (TONS)	EVAPORATOR BARREL				CONDENSER BARREL				UNIT VOLTAGE	UNIT POWER (KW)	UNIT MCA/MOCP	NPLV KW/TON	FULL LOAD KW/TON	WEIGHT (LBS)	MANUFACTURER	MODEL				
			E.W.T. (°F)	L.W.T. (°F)	WATER FLOW (GPM)	MAX P.D. (FT. W.G.)	No. OF PASSES	FOULING FACTOR	E.W.T. (°F)	L.W.T. (°F)									WATER FLOW (GPM)	MAX P.D. (FT. W.G.)	No. OF PASSES	FOULING FACTOR
CH-1	CHILLED WATER	218	52.80	42.80	520.7	17.8	2	0.0001	85.00	94.10	672.1	18.6	2	0.00025	460/3φ	123.9	216/350	0.3621	0.5683	11,649	TRANE	HDWA 300

- NOTES:
- PROVIDE EACH UNIT WITH A UNIT MOUNTED VARIABLE FREQUENCY DRIVE AND NON-FUSED DISCONNECT.
  - PROVIDE CHILLER CAPABLE OF UNLOADING TO 25% LOAD AT 85°F ENTERING CONDENSER WATER.
  - PROVIDE 0.025" EVAPORATOR AND 0.028" CONDENSER TUBE THICKNESSES.

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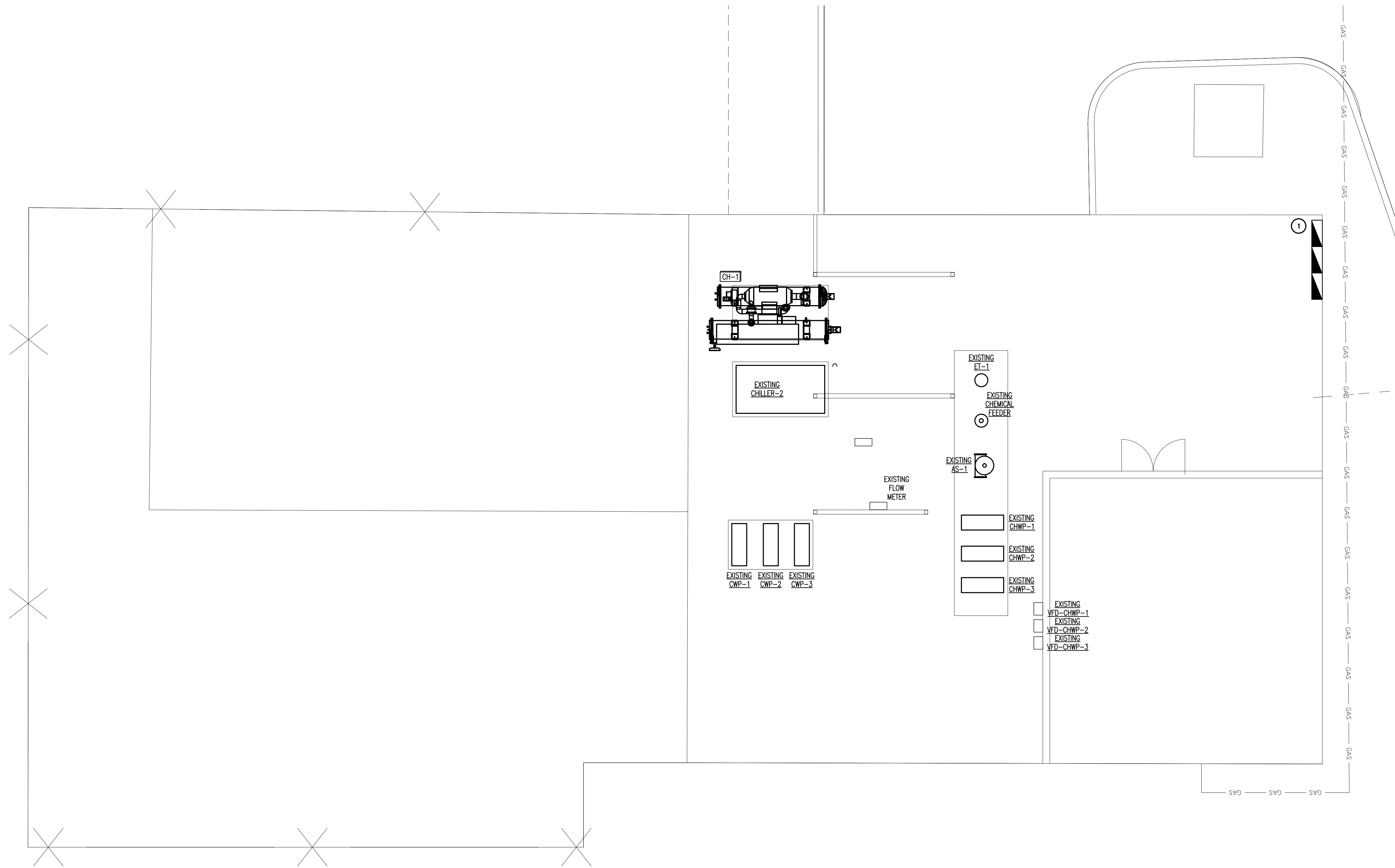
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SHEET

M2.1

02.12.2026



**GENERAL NOTES:**

- A. COORDINATE ROUGH-IN LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND PLANS.
- B. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.
- C. FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE, REFER TO DETAIL A/SHEET E3.

**KEY NOTES:**

- ① FURNISH AND INSTALL NEW 350 AMP TRIP UNIT EATON #KT3350T AT EXISTING CIRCUIT BREAKER SERVING CH-1. ROUTE 3#400 KCMIL #3C,2# C.

**FIELD VERIFY ALL CONDITIONS**

DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

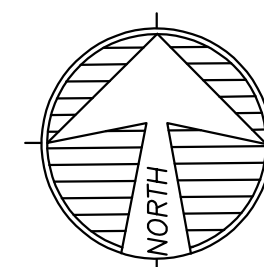
THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

25085	AD/T.C.
02/12/2026	REVISIONS
JOB NO.	DATE
DATE	REVISIONS
AD/T.C.	DRAWN BY

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CHILLER REPLACEMENT**  
3105 N. DOOLITTLE RD.  
EDINBURG, TEXAS 78542

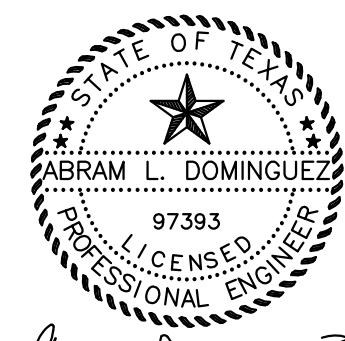
**MEP SOLUTIONS ENGINEERING**  
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600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727  
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748



A

**ELECTRICAL POWER FLOOR PLAN**

SCALE: 3/16" = 1'-0"



*Abram L. Dominguez*  
02.12.2026

SHEET

**E1.1**

# ELECTRICAL SYSTEM – SECTION 16000

THE ELECTRICAL WORK INCLUDES PROVIDING NEW MATERIALS, FIXTURES, DEVICES AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM. THE WORK ALSO INCLUDES FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT ITEMS PROVIDED BY OTHERS. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL FIXTURES, LAMPS, DEVICES, ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

COORDINATE WITH THE WORK OF OTHER SECTIONS. VERIFY EXISTING SITE CONDITIONS BEFORE BIDDING. MAKE ALL CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. COMPLY WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION REGARDING KITCHEN EQUIPMENT, CASEWORK, AND REQUIRED ELECTRICAL CONNECTIONS.

ALL WORK SHALL COMPLY WITH LOCAL LAWS GOVERNING ELECTRICAL INSTALLATIONS, AND THE MOST RECENT EDITION OF THE "NATIONAL ELECTRIC CODE". PROVIDE CODE REQUIRED CLEARANCES AROUND ALL ELECTRICAL EQUIPMENT. OBTAIN ALL PERMITS AND PAY ANY FEES RELATING TO ELECTRICAL WORK.

MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO NEMA, NATIONAL ELECTRIC CODE (NEC), AND UNDERWRITERS LABORATORIES (U.L.) STANDARDS IN EVERY CASE WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED.

VERIFY VOLTAGE DROPS AND A.I.C. RATINGS FOR ALL EQUIPMENT CONNECTED, AND VERIFY SIZE OF ELECTRICAL SYSTEM BREAKERS, CONDUITS, ETC.

TEMPORARY SERVICES: ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/208 VOLT, 3-PHASE, 4-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.

DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK TYPE NEMA 1 ENCLOSURE (NEMA 3R FOR OUTDOOR). SWITCHES SHALL BE AS MANUFACTURED BY SQUARE "D", GENERAL ELECTRIC, OR CUTLER HAMMER PROVIDE ALL FUSES AS MANUFACTURED BY BUSSMAN, GOULD-SHAMMUT, OR LITTLE-FUSE. ALL CONDUCTOR TERMINALS TO BE U.L. FOR MINIMUM 75°C.

PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE "D", GENERAL ELECTRIC, OR CUTLER HAMMER; MEETING U.L. STANDARDS 30 AND 67, WITH U.L. LABEL. ALL CONDUCTOR TERMINALS TO BE U.L. FOR MINIMUM 75°C.

BREAKERS TO BE THERMAL MAGNETIC TYPE, BOLT-ON, QUICK-MAKE, QUICK-BREAK TYPE SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. ALL BREAKERS CONNECTED TO LIGHTING BRANCH CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SWD".

PANELBOARD CABINETS SHALL BE ONE PIECE CODE GAGE GALVANIZED STEEL WITH MOUNTING STUDS. WIRING CUTTERS OF AMPLE SIZE AND KNOCKOUTS FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BARS SHALL BE 98 % CONDUCTIVE COPPER. FRONTS SHALL BE ONE PIECE CODE GAGE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE FLUSH MOUNT UNITS UNLESS OTHERWISE INDICATED. PROVIDE A PLASTIC COVERED TYPED SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH CABINET.

GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM GROUNDING NEUTRAL. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT, GROUND CLAMP SHALL BE OF A TYPE WHICH GROUND BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE CONDUIT OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZED IN ACCORDANCE WITH "NEC" TABLE 250-95.

CONDUIT SHALL BE SIZED TO COMPLY WITH "NEC" FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED, MINIMUM SIZE OF 1/2" ABOVE GRADE (UNLESS 3/4" IS REQUIRED BY LOCAL JURISDICTION). PROVIDE SCHEDULE 40 PWD PLASTIC OR RIGID STEEL CONDUIT BELOW GRADE, MINIMUM SIZE OF 3/4". PROVIDE ELECTRICAL METAL TUBING (EMT) MEETING FS #W-C563, OR FLEXIBLE CONDUIT (IN LENGTHS 6'-0" OR LESS) FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLINGS SHALL BE SET-SCREW TYPE. CLAMP CONDUIT TO BOXES WITH BUSHINGS INSIDE AND LOCKNUT OUTSIDE. TYPE AC & MC ARMORED CABLE IS ACCEPTABLE IN CONSTRUCTION TO BE SECURELY FASTENED TO STRUCTURE (UNLESS NOT ACCEPTABLE BY LOCAL JURISDICTION.)

CONDUCTORS SHALL BE INSULATED SOFT ANNEALED 98 % PURE COPPER WITH COLOR CODING, B & S GAGE, #10 AND SMALLER TO BE SOLID, #8 AND LARGER TO BE STRANDED, MINIMUM #12 UNLESS OTHERWISE INDICATED. ALUMINUM CONDUCTORS SHALL NOT BE ALLOWED. "THHN" MAY NOT BE USED UNDERGROUND, AT SERVICE ENTRANCE, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 600 VOLT AND TYPES AS FOLLOWS:

#10 AND SMALLER: THW, THHN, OR THWN  
#8 AND LARGER: THW OR THHN  
SERVICE ENTRANCE: USE-RHW

WIRE THROUGH FLUORESCENT FIXTURES OR WITHIN 3" OF HEATING EQUIPMENT TO BE "THHN".

DEVICES SHALL BE MANUFACTURED BY LEVITON OR EQUAL. ALL DEVICES AND COVER PLATES SHALL BE WHITE COLOR. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20 AMP, NEMA 5-20R, BACK AND SIDE WIRED. OTHER DEVICES SHALL BE AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE EQUIPMENT ITEM INTENDED TO BE SERVED. WHERE SWITCHES ARE GROUPED, PROVIDE GANG PLATES.

SPECIAL PLATES: PROVIDE STAINLESS STEEL PLATES AT ALL RECEPTACLES INSTALLED IN THE KITCHEN AND BACK LINE AREAS.

LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE SIZE IF VOLTAGE DROP EXCEEDS 3 FEET.

THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:

- 2018 INT'L BUILDING CODE
- 2018 INT'L MECHANICAL CODE
- 2018 INT'L PLUMBING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2015 INT'L ENERGY CONSERVATION CODE

ANY DISCREPANCY SHALL BE BROUGHT TO ENGINEERS ATTENTION.

## A ELECTRICAL SPECIFICATIONS

SCALE: N.T.S.

## ELECTRICAL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)	SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)	
	2'x4' LED LIGHT FIXTURE	SEE FIX. SCH.		FIRE ALARM SPRINKLER FLOW SWITCH	-	
	2'x4' LED LIGHT FIXTURE ON EMERGENCY CIRCUIT	SEE FIX. SCH.		FIRE ALARM SPRINKLER TAMPER SWITCH	-	
	2'x2' LED LIGHT FIXTURE	SEE FIX. SCH.		FIRE ALARM SPRINKLER TAMPER SWITCH	-	
	2'x2' LED LIGHT FIXTURE ON EMERGENCY CIRCUIT	SEE FIX. SCH.		FIRE ALARM SPRINKLER PRESSURE SWITCH	-	
	LED STRIP LIGHT	SEE FIX. SCH.		FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	80" AFF	
	1'x4' LED LIGHT FIXTURE	SEE FIX. SCH.		HEAT DETECTOR CEILING OR WALL MOUNTED	-	
	TRACK LIGHT	SEE FIX. SCH.		DUCT SMOKE DETECTOR	-	
	LED FIXTURE CLG. OR WALL MTD.	SEE FIX. SCH.		SMOKE DOOR HOLDER	-	
	LED FIXTURE ON EMERGENCY CCT. CLG. OR WALL MTD.	SEE FIX. SCH.		FIRE ALARM CONTROL PANEL	-	
	EXIT LIGHT, CEILING OR WALL MOUNTED - SHADING INDICATING SINGLE OR DOUBLE FACE; DIRECTIONAL ARROWS AS INDICATED	9" BFC		FIRE ALARM ANNUNCIATOR PANEL	-	
	WALL SWITCH SPST, 20A/120/277V	48" AFF		P.A. SPEAKER, CEILING OR WALL MOUNTED	9" BFC	
	DOUBLE POLE TOGGLE SWITCH, 20A/120/277V	48" AFF		MICROPHONE OUTLET	-	
	3-WAY WALL SWITCH, 20A/120/277V	48" AFF		DISCONNECT SWITCH - 30/-/3 INDICATES 30A, 3-POLE, NONFUSED; 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.	
	4-WAY WALL SWITCH, 20A/120/277V	48" AFF		CIRCUIT BREAKER DISCONNECT SWITCH - THERMAL MAGNETIC CB IN NEMA 1 ENCL.; AMPS/POLES AS INDICATED	AS REQD.	
	WALL DIMMER SWITCH	48" AFF		DISCONNECT SWITCH - 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.	
	KEY OPERATED WALL SWITCH	48" AFF		MOTOR STARTER FVAR UNQ; NUMBER INDICATES NEMA SIZE	AS REQD.	
	WALL SWITCH WITH PILOT LIGHT	48" AFF		COMBINATION MOTOR CONTROLLER/DISCONNECT SWITCH	AS REQD.	
	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF		MOTOR	-	
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF		PANELBOARD	-	
	DUPLEX RCPT. SPLIT-WIRED - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF		CIRCUIT HOME RUN TO PANELBOARD (2 #12, 1 #12G, 1/2" C, 20A/1P CB UNO)	-	
	DUPLEX RCPT. GFI - 20A/125V/2P/3W/G NEMA 5-20R	15" AFF		THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-	
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE)	15" AFF		MULTI-POLE DEVICE CIRCUIT NUMBERS	-	
	ISOLATED GROUND DUPLEX RECEPTACLE - 20A/125V NEMA 5-20R	15" AFF		MOTION DETECTOR, CEILING OR WALL MOUNTED	-	
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	15" AFF		DOOR HOLDER - REFER TO ARCHITECTURAL DOOR SCHEDULE FOR DOOR ROUGH-IN REQUIREMENTS.	-	
	FLOOR MOUNTED DUPLEX RECEPTACLE - FLUSH MOUNTED UNQ	-		CHIME/STROBE	80" AFF	
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)	15" AFF		BELL/BUZZ	48" AFF	
	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS REQD.		GLASS BREAK MOTION SENSOR	-	
	MULTIOUTLET ASSEMBLY - LENGTH AND OUTLET SPACING AS INDICATED	AS NOTED		DOOR CONTACTS	-	
	TELEPHONE/DATA OUTLET, WALL MOUNTED - STUB 1" C, ABOVE CEILING FROM OUTLET BOX	15" AFF		KEYPAD	48" AFF	
	FLOOR MOUNTED DATA/TELEPHONE OUTLET - FLUSH MOUNTED UNQ	-		CAMERA	-	
	TELEVISION OUTLET, CLG. OR WALL MOUNTED - STUB 3/4" C, ABOVE CEILING FROM OUTLET BOX	15" AFF		CARD READER - REFER TO DESCRIPTION IN DOOR HARDWARE SPECIFICATION SECTION.	48" AFF	
	PUSHBUTTON	48" AFF	ELECTRICAL ABBREVIATIONS			
	CLOCK HANGER OUTLET 15A/125V/2P/3W/G RECEPTACLE	96" AFF	AFF	ABOVE FINISHED FLOOR	NL	NIGHT LIGHT
	WIRELESS ACCESS POINT	-	BFC	BELOW FINISHED CEILING	NO (N.O.)	NORMALLY OPEN
	FIRE ALARM PULL STATION	48" AFF	C	CONDUIT	RCPT(S)	RECEPTACLE(S)
	FIRE ALARM AUDIBLE/VISUAL SIGNAL	80" AFF	CB	CIRCUIT BREAKER	PNL	PANEL
	FIRE ALARM AUDIBLE SIGNAL	80" AFF	EC	EMPTY CONDUIT	SO (S.O.)	SPACE ONLY
	FIRE ALARM VISUAL SIGNAL	80" AFF	EX	EXISTING	SP	SPARE
	SPEAKER VOICE EVAC SYSTEM	80" AFF	F	FUSE	ST (S.T.)	SHUNT TRIP
	FIRE ALARM AUDIBLE/VISUAL SIGNAL-LOW FREQUENCY	80" AFF	G	GROUND (EQUIPMENT)	SW	SWITCH
	FIRE ALARM AUDIBLE SIGNAL-LOW FREQUENCY	80" AFF	GFI	GROUND FAULT INTERRUPTER	UF	UNDERFLOOR
	VOICE EVAC SYSTEM	-	IC	INTERRUPTING CAPACITY	UG	UNDERGROUND
			IG	ISOLATED GROUND	UNO(U.N.O.)	UNLESS NOTED OTHERWISE
			MTD	MOUNT OR MOUNTED	WG	WIRE GUARD
			NC (N.C.)	NORMALLY CLOSED	WP	WEATHERPROOF
			NF	NONFUSED	XFMR	TRANSFORMER
			NIC	NOT IN CONTRACT		

NOTES:  
1. 48" AFF INDICATES TO TOP OF DEVICE;  
15" AFF INDICATES TO BOTTOM OF DEVICE;  
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

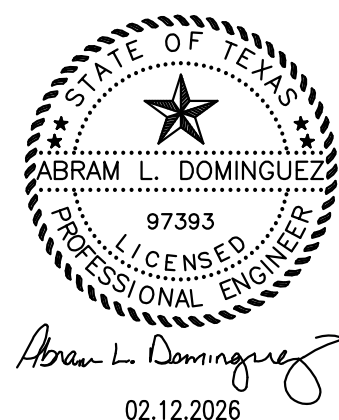
## B ELECTRICAL LEGEND

SCALE: N.T.S.

JOB NO.	25085
DATE	02/12/2026
REVISIONS	
DRAWN BY	AD/FLG.

ECISD MEMORIAL MIDDLE SCHOOL  
CHILLER REPLACEMENT  
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SHEET

E2.1