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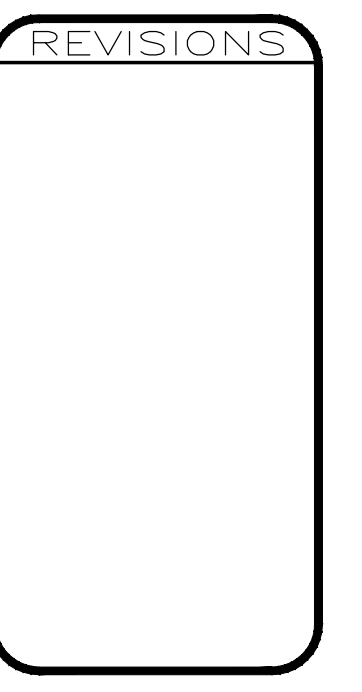
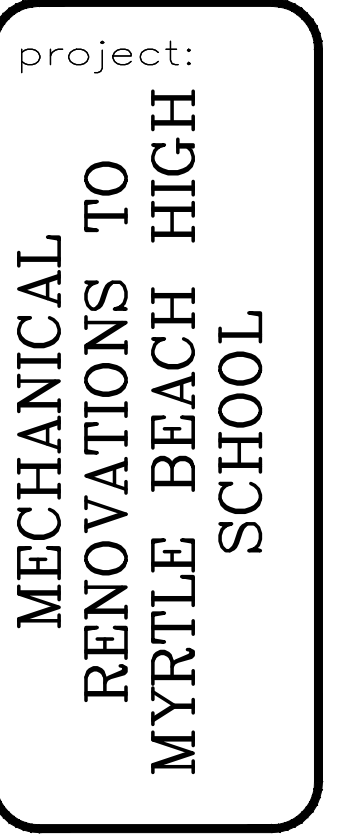
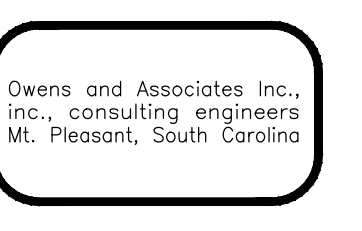
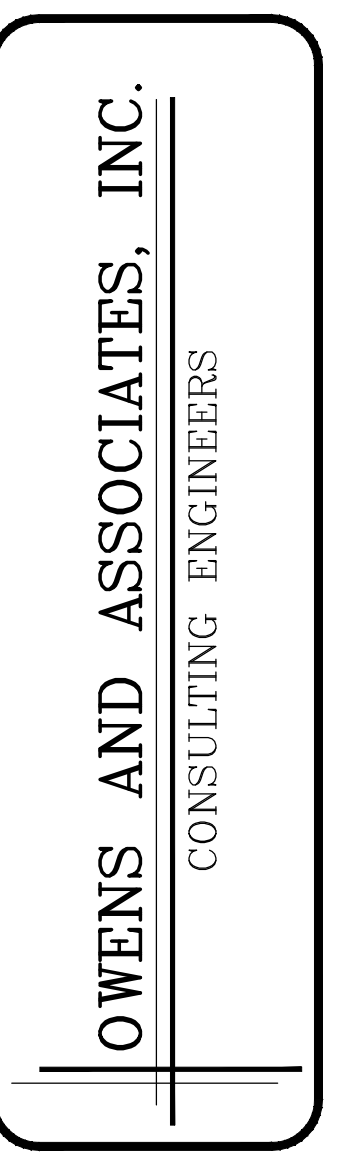
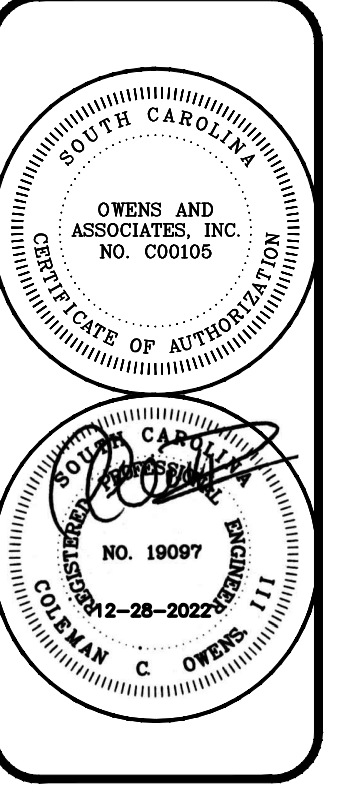
MECHANICAL RENOVATIONS TO MYRTLE BEACH HIGH SCHOOL

HORRY COUNTY SCHOOL DISTRICT

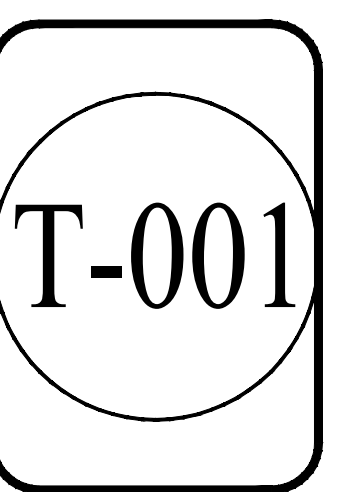
3302 ROBERT M GRISSOM PARKWAY
MYRTLE BEACH, SC 29577

OWNER / ENGINEERS	LIST OF DRAWINGS	PROJECT LOCATION
<p>OWNER: HORRY COUNTY SCHOOL DISTRICT 1160 E. HWY 501 CONWAY, SC 29526 (843) 488-6965</p> <p>MEP ENGINEER: OWENS AND ASSOCIATES, INC. 1007 LAKE HUNTER CIRCLE MT. PLEASANT, SC 29464 (843) 849-6457</p> <p>STRUCTURAL ENGINEER: WEATHERLY STRUCTURAL ENGINEERS 514 ALDER STREET MYRTLE BEACH, SC (843) 448-3428</p>	<p><u>GENERAL:</u> T-001 TITLE SHEET</p> <p><u>MECHANICAL, ELECTRICAL AND PLUMBING:</u> ME-101 MECHANICAL AND ELECTRICAL FLOOR PLAN-ALT.#2 ME-102 MECHANICAL AND ELECTRICAL FLOOR PLAN-ALT.#1 ME-103 MECHANICAL AND ELECTRICAL LOCKER ROOM FLOOR PLAN AREA "PE"-BASE BID ME-104 MECHANICAL AND ELECTRICAL AUDITORIUM FLOOR PLAN AREA "A"-BASE BID ME-105 MECHANICAL AND ELECTRICAL FIRST FLOOR ADMIN. FLOOR PLAN AREA "B"-BASE BID ME-106 MECHANICAL AND ELECTRICAL FIRST FLOOR CLASSROOM FLOOR PLAN AREA "C"-BASE BID ME-107 MECHANICAL AND ELECTRICAL FIRST FLOOR PLAN AREAS "D"&"E"-BASE BID ME-108 MECHANICAL AND ELECTRICAL SECOND FLOOR PLAN AREA "A"-BASE BID ME-109 MECHANICAL AND ELECTRICAL SECOND FLOOR PLAN AREA "C"-BASE BID ME-110 MECHANICAL AND ELECTRICAL SECOND FLOOR PLAN AREAS "B" & "D"-BASE BID ME-111 MECHANICAL AND ELECTRICAL SECOND FLOOR PLAN AREA "C"-BASE BID ME-112 ENLARGED 2ND FLOOR ELECTRICAL AND MECHANICAL PLAN ROOM M216-BASE BID ME-113 MECHANICAL PIPING PLAN-MAIN MECHANICAL BUILDING M100-ALT.#3 ME-114 ELECTRICAL POWER PLAN-MAIN MECHANICAL BUILDING M100-ALT.#3 ME-115 MECHANICAL AND ELECTRICAL FIELD HOUSE PLAN-ALT.#2 ME-201 MECHANICAL SCHEDULES AND DETAILS ME-202 MECHANICAL SCHEDULES AND DETAILS ME-203 MECHANICAL SCHEDULES AND DETAILS ME-204 MECHANICAL SCHEDULES AND DETAILS ME-205 CONDENSER WATER CONTROL SCHEMATIC ME-206 EVAPORATIVE COOLER SUPPORT DETAILS ME-207 ELECTRICAL SCHEDULES AND DETAILS ME-208 ELECTRICAL PANEL SCHEDULES AND RISER DIAGRAMS</p> <p><u>STRUCTURAL(ALT.#1):</u> S1- HVAC SUPPORT FRAMING PLAN S2- STRUCTURAL DETAILS AND SECTIONS</p>	

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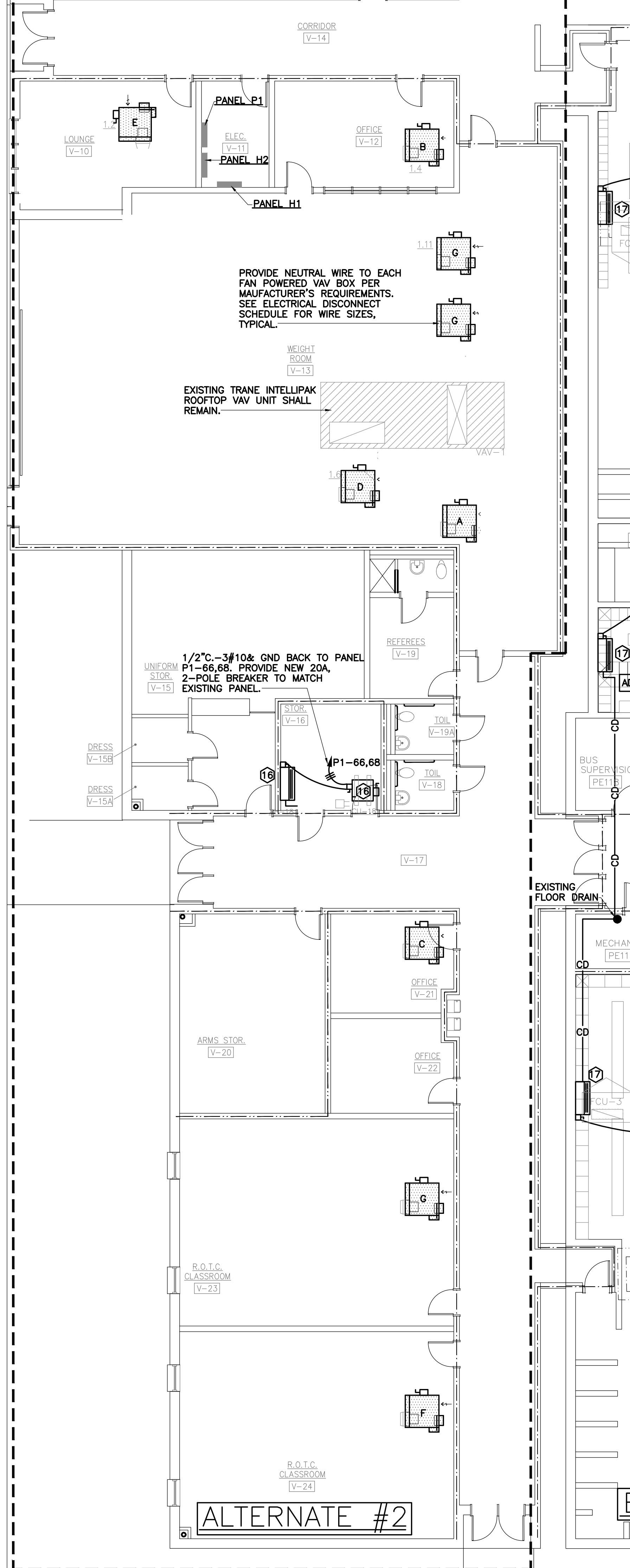


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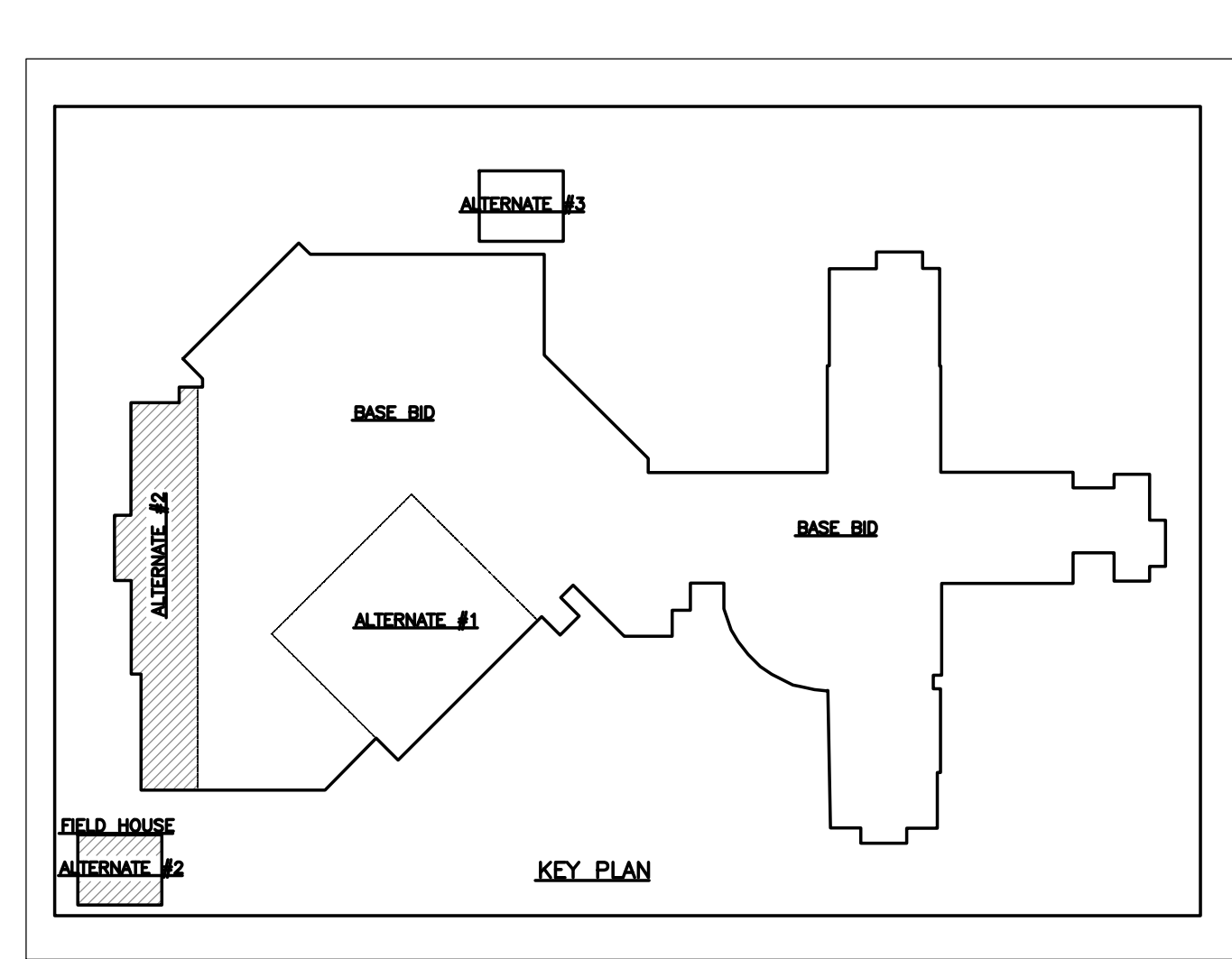


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MATCHLINE

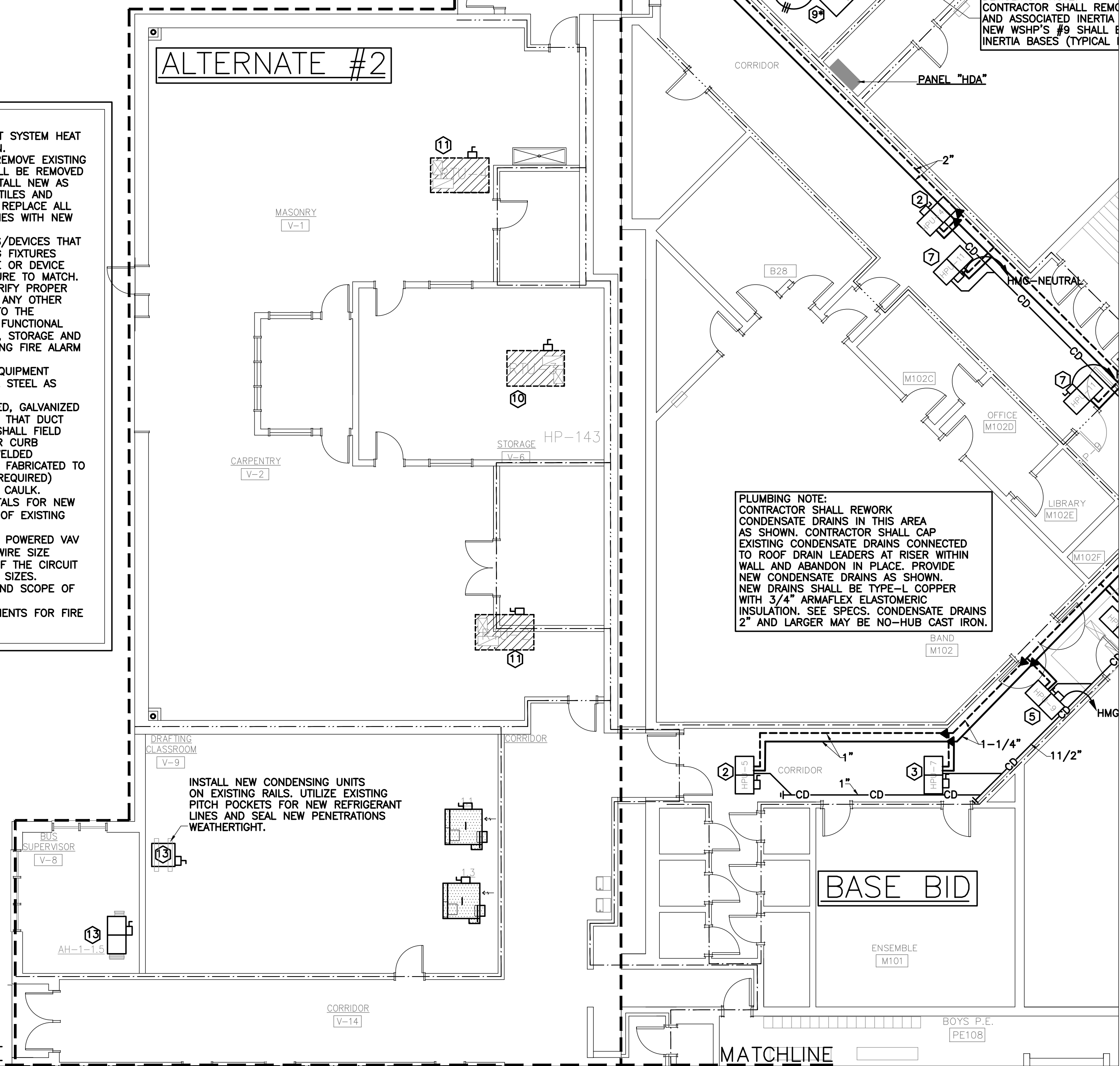


MECHANICAL AND ELECTRICAL FLOOR PLAN-ALTERNATE #2
SCALE: 1/8"=1'-0"



- ALTERNATE 2 (PHASE II) GENERAL NOTES:**
- 1) PHASE III CONSISTS OF REMOVAL OF ALL ROOFTOP HEAT PUMPS, SPLIT SYSTEM HEAT PUMPS AND FAN POWERED VAV BOXES. EXISTING VAV-1 SHALL REMAIN. CONTRACTOR SHALL REMOVE PORTIONS OF CEILING AS REQUIRED TO REMOVE EXISTING SUSPENDED HEAT PUMPS AND VAV BOXES. CEILING GRID T-BARS SHALL BE REMOVED TO THE EXTENT NECESSARY TO REMOVE EXISTING EQUIPMENT AND INSTALL NEW AS INDICATED. CONTRACTOR SHALL REMOVE AND STORE EXISTING CEILING TILES AND REINSTALL AFTER NEW EQUIPMENT IS INSTALLED. CONTRACTOR SHALL REPLACE ALL DAMAGED TILES AND CEILING GRID DAMAGED BY CONSTRUCTION ACTIVITIES WITH NEW GRID AND TILES TO MATCH.
 - 2) CONTRACTOR SHALL REMOVE AND STORE ANY EXISTING LIGHT FIXTURES/DEVICES THAT INTERFERE WITH EQUIPMENT REMOVAL AND NEW INSTALLATION. EXISTING FIXTURES SHALL BE REINSTALLED AFTER WORK IS COMPLETE. ANY LIGHT FIXTURE OR DEVICE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH NEW FIXTURE TO MATCH. PRIOR TO REMOVAL FOR STORAGE, ELECTRICAL CONTRACTOR SHALL VERIFY PROPER OPERATION OF ALL LIGHT FIXTURES, EMERGENCY LIGHTS, STROBES OR ANY OTHER CEILING MOUNTED DEVICE AND REPORT ANY ITEMS NOT OPERATIONAL TO THE ENGINEER/OWNER. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING FUNCTIONAL SYSTEMS AFTER STORAGE AND REINSTALLATION. VERIFICATION, REMOVAL, STORAGE AND REINSTALLATION OF ANY DEVICE ASSOCIATED WITH THE EXISTING BUILDING FIRE ALARM SYSTEM SHALL BE PERFORMED BY THE FIRE ALARM CONTRACTOR.
 - 3) WHERE POSSIBLE, CONTRACTOR SHALL RETAIN AND UTILIZE EXISTING EQUIPMENT HANGER RODS FOR NEW REPLACEMENT UNITS. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED TO INSTALL NEW EQUIPMENT.
 - 4) NEW ROOFTOP UNITS SHALL BE PROVIDED WITH NEW SEISMICALLY RATED, GALVANIZED ADAPTOR CURBS TO MATCH EXISTING DUCTWORK CONFIGURATION SUCH THAT DUCT REMOVAL FROM INSIDE THE BUILDING IS NOT REQUIRED. CONTRACTOR SHALL FIELD VERIFY EXISTING CURB ARRANGEMENTS AND COORDINATE WITH ADAPTOR CURB SUPPLIER. CURBS SHALL BE FABRICATED TO BE WEATHERTIGHT WITH WELDED CONSTRUCTION AND GALVANIZED AFTER FABRICATION. CURBS SHALL BE FABRICATED TO POSITIVELY DRAIN WATER. ALL PENETRATIONS OF ADAPTOR CURBS (IF REQUIRED) SHALL BE SEALED WATERTIGHT WITH 3M TYPE 5000 MARINE ADHESIVE CAULK.
 - 5) CONTRACTOR SHALL REUSE EXISTING EQUIPMENT RAILS AND PIPE PORTALS FOR NEW SPLIT SYSTEM/mini SPLIT HEAT PUMPS. SEAL ALL NEW PENETRATIONS OF EXISTING PIPE PORTALS WATERTIGHT.
 - 6) ELECTRICAL CONTRACTOR SHALL PROVIDE NEUTRAL WIRES TO NEW FAN POWERED VAV BOXES AS REQUIRED BY THE MANUFACTURER'S LITERATURE. NEUTRAL WIRE SIZE SHALL MATCH EXISTING CONDUCTOR SIZES PER THE AMPERE RATING OF THE CIRCUIT SERVING THE ASSOCIATED BOX. SEE DISCONNECT SCHEDULE FOR WIRE SIZES.
 - 7) REFER TO PLANS FOR ALTERNATE #2 PLANS FOR ADDITIONAL NOTES AND SCOPE OF WORK REQUIREMENTS.
 - 8) REFER TO BASE BID, NOTE 7 PERTAINING TO THE CONTRACT REQUIREMENTS FOR FIRE RATED SUB-CEILING REPAIR ASSOCIATED WITH ALTERNATE #2 WORK.

MATCHLINE



MECHANICAL AND ELECTRICAL FLOOR PLAN-ALTERNATE #2
SCALE: 1/8"=1'-0"

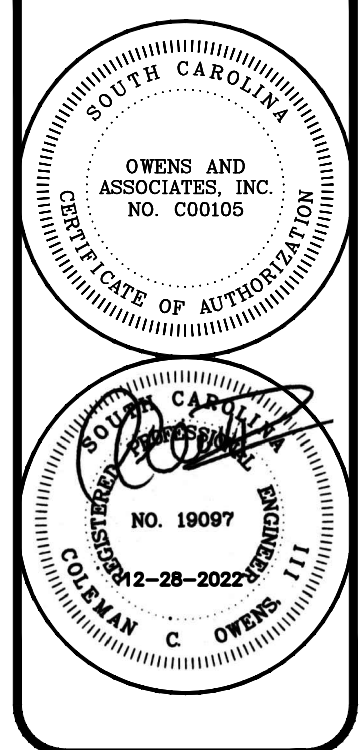
FIREWALL INDICATIONS

- 1 HOUR WALL
- 2 HOUR WALL
- 3 HOUR WALL
- SMOKE WALL

NOTE: CEILING SPACE IS LIMITED IN THIS AREA. CONTRACTOR SHALL ENSURE THAT CONDENSATE DRAINS ARE PROPERLY SLOPED BACK TO CO-RISERS TO EXISTING FLOOR DRAINS IN MECHANICAL ROOMS. COORDINATE WITH EXISTING CONDITIONS.

DEMOLITION NOTE: CONTRACTOR SHALL REMOVE AND ASSOCIATED INERTIA NEW WSPH'S #9 SHALL BE INERTIA BASES (TYPICAL)

PLUMBING NOTE: CONTRACTOR SHALL REWORK CONDENSATE DRAINS IN THIS AREA AS SHOWN. CONTRACTOR SHALL CAP EXISTING CONDENSATE DRAINS CONNECTED TO ROOF DRAIN LEADERS AT RISER WITHIN WALL AND ABANDON IN PLACE. PROVIDE NEW CONDENSATE DRAINS AS SHOWN. NEW DRAINS SHALL BE TYPE-L COPPER WITH 3/4" ARMAFLEX ELASTOMERIC INSULATION. SEE SPECS. CONDENSATE DRAINS 2" AND LARGER MAY BE NO-HUB CAST IRON.



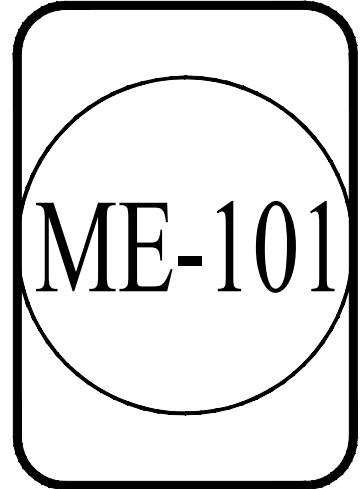
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Mt. Pleasant, South Carolina

project:
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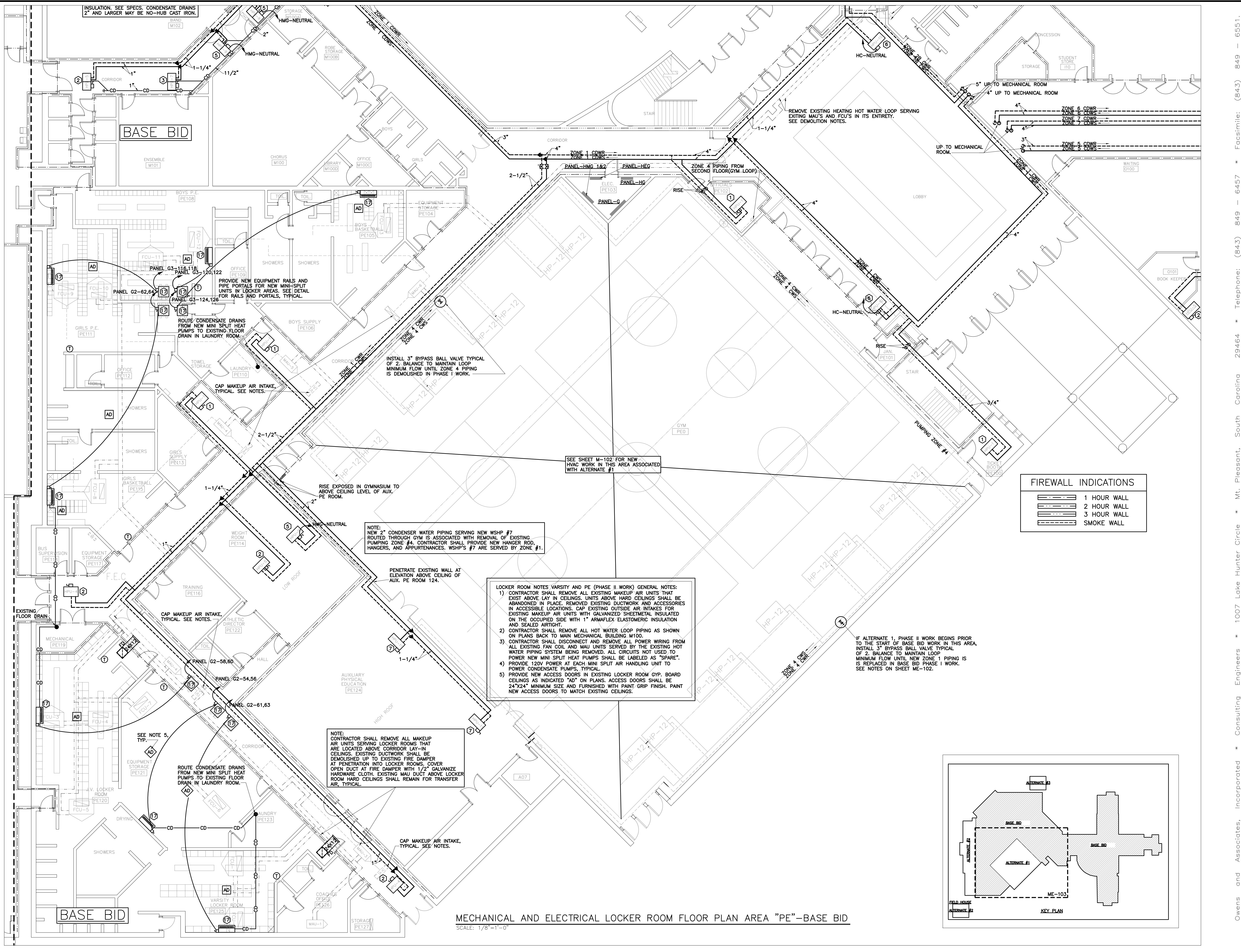
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INSULATION, SEE SPECS. CONDENSATE DRAINS 2" AND LARGER MAY BE NO-HUB CAST IRON.

BASE BID

BASE BID

MECHANICAL AND ELECTRICAL LOCKER ROOM FLOOR PLAN AREA "PE"--BASE BID
SCALE: 1/8"=1'-0"

FIREWALL INDICATIONS

	1 HOUR WALL
	2 HOUR WALL
	3 HOUR WALL
	SMOKE WALL

LOCKER ROOM NOTES VARSITY AND PE (PHASE II WORK) GENERAL NOTES:

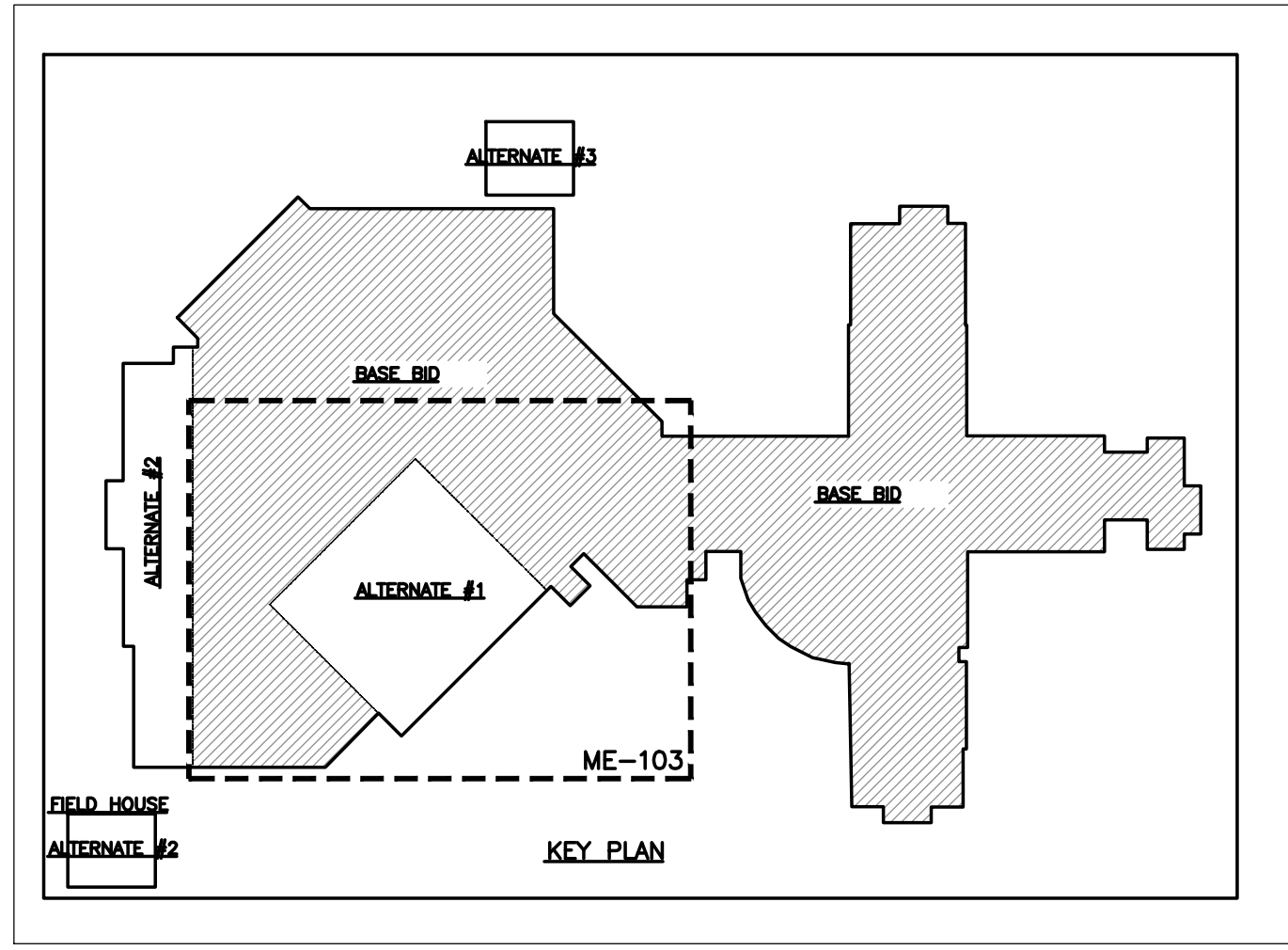
- 1) CONTRACTOR SHALL REMOVE ALL EXISTING MAKEUP AIR UNITS THAT EXIST ABOVE LAY IN CEILINGS. UNITS ABOVE HARD CEILINGS SHALL BE ABANDONED IN PLACE. REMOVED EXISTING DUCTWORK AND ACCESSORIES IN ACCESSIBLE LOCATIONS. CAP EXISTING OUTSIDE AIR INTAKES FOR EXISTING MAKEUP AIR UNITS WITH GALVANIZED SHEETMETAL INSULATED ON THE OCCUPIED SIDE WITH 1" ARMAFLEX ELASTOMERIC INSULATION AND SEALED AIRTIGHT.
- 2) CONTRACTOR SHALL REMOVE ALL HOT WATER LOOP PIPING AS SHOWN ON PLANS BACK TO MAIN MECHANICAL BUILDING M100.
- 3) CONTRACTOR SHALL DISCONNECT AND REMOVE ALL POWER WIRING FROM ALL EXISTING FAN COIL AND MAU UNITS SERVED BY THE EXISTING HOT WATER PIPING SYSTEM BEING REMOVED. ALL CIRCUITS NOT USED TO POWER NEW MINI SPLIT HEAT PUMPS SHALL BE LABELED AS "SPARE".
- 4) PROVIDE 120V POWER AT EACH MINI SPLIT AIR HANDLING UNIT TO POWER CONDENSATE PUMPS, TYPICAL.
- 5) PROVIDE NEW ACCESS DOORS IN EXISTING LOCKER ROOM GYP. BOARD CEILINGS AS INDICATED "AD" ON PLANS. ACCESS DOORS SHALL BE 24"x24" MINIMUM SIZE AND FURNISHED WITH PAINT GRIP FINISH. PAINT NEW ACCESS DOORS TO MATCH EXISTING CEILINGS.

NOTE: CONTRACTOR SHALL REMOVE ALL MAKEUP AIR UNITS SERVING LOCKER ROOMS THAT ARE LOCATED ABOVE CORRIDOR LAY-IN CEILINGS. EXISTING DUCTWORK SHALL BE DEMOLISHED UP TO EXISTING FIRE DAMPER AT PENETRATION INTO LOCKER ROOMS. COVER OPEN DUCT AT FIRE DAMPER WITH 1/2" GALVANIZE HARDWARE CLOTH. EXISTING MAU DUCT ABOVE LOCKER ROOM HARD CEILINGS SHALL REMAIN FOR TRANSFER AIR, TYPICAL.

NOTE: NEW 2" CONDENSER WATER PIPING SERVING NEW WSHWP #7 ROUTED THROUGH GYM IS ASSOCIATED WITH REMOVAL OF EXISTING PUMPING ZONE #4. CONTRACTOR SHALL PROVIDE NEW HANGER ROD, HANGERS, AND APPURTENANCES. WSHWP'S #7 ARE SERVED BY ZONE #1.

SEE SHEET M-102 FOR NEW HVAC WORK IN THIS AREA ASSOCIATED WITH ALTERNATE #1

IF ALTERNATE 1, PHASE II WORK BEGINS PRIOR TO THE START OF BASE BID WORK IN THIS AREA, INSTALL 3" BYPASS BALL VALVE TYPICAL OF 2. BALANCE TO MAINTAIN LOOP MINIMUM FLOW UNTIL NEW ZONE 1 PIPING IS REPLACED IN BASE BID PHASE I WORK. SEE NOTES ON SHEET ME-102.



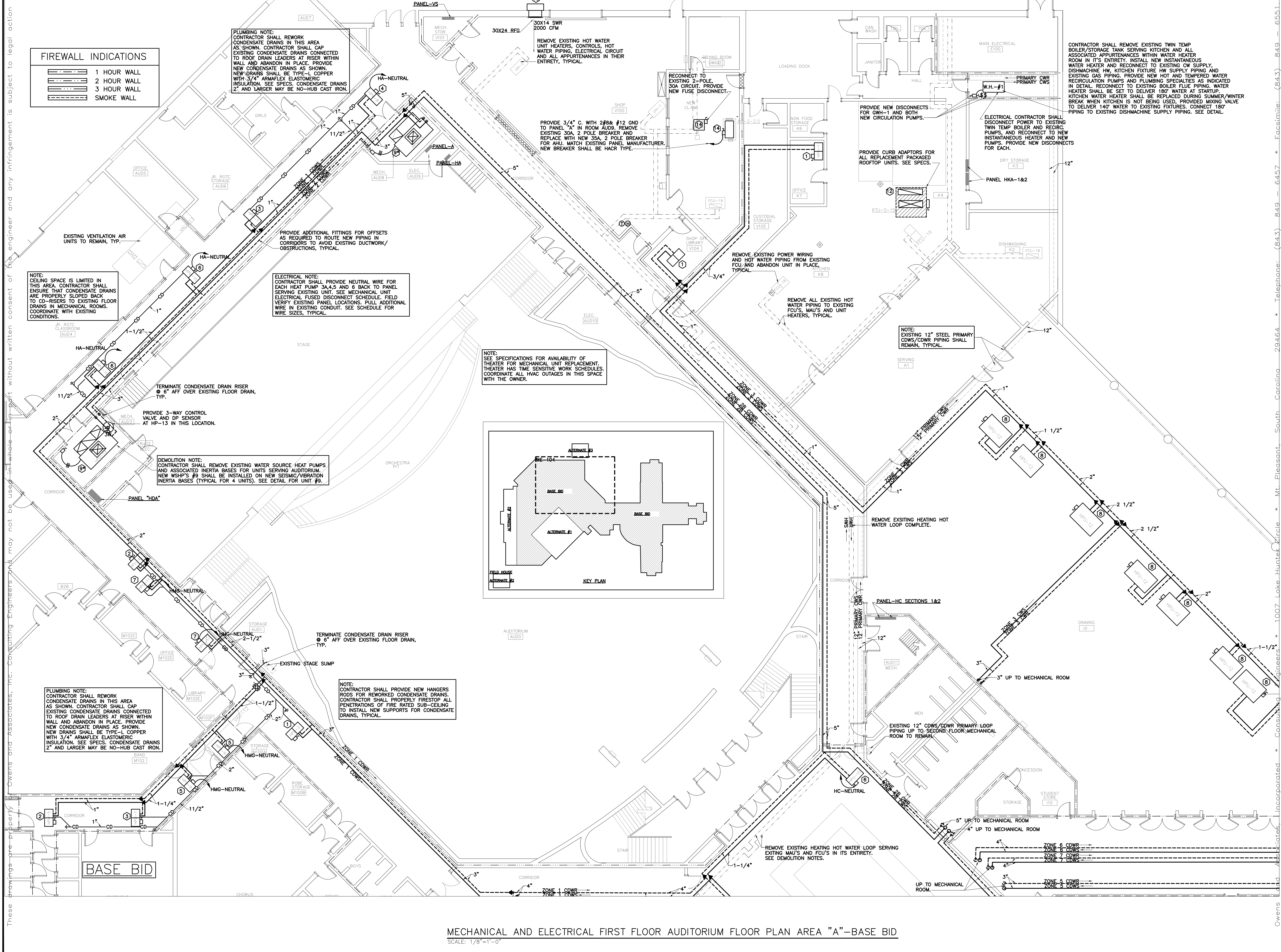
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ME-103



FIREWALL INDICATIONS

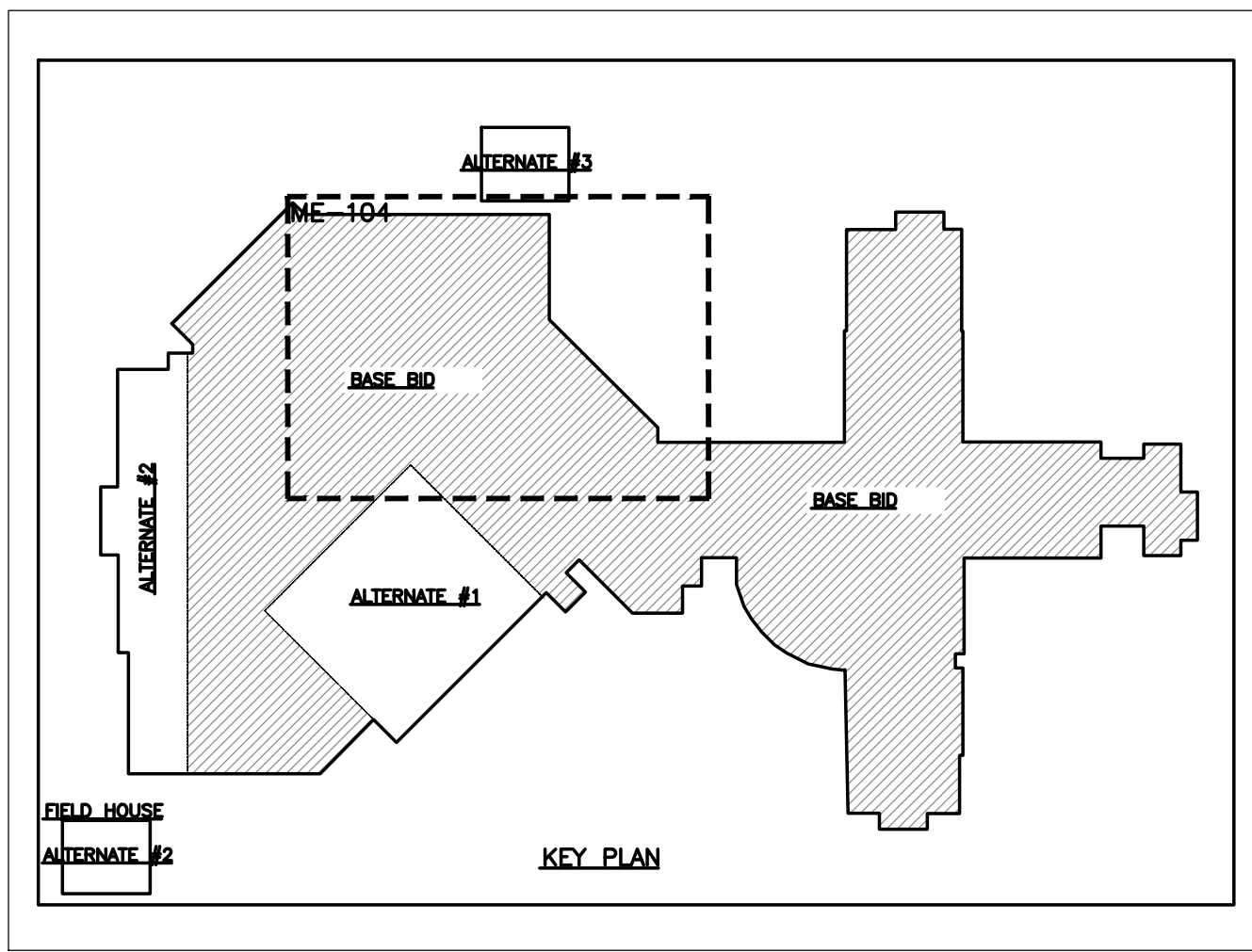
	1 HOUR WALL
	2 HOUR WALL
	3 HOUR WALL
	SMOKE WALL

PLUMBING NOTE:
 CONTRACTOR SHALL REWORK CONDENSATE DRAINS IN THIS AREA AS SHOWN. CONTRACTOR SHALL CAP EXISTING CONDENSATE DRAINS CONNECTED TO ROOF DRAIN LEADERS AT RISER WITHIN WALL AND ABANDON IN PLACE. PROVIDE NEW CONDENSATE DRAINS AS SHOWN. NEW DRAINS SHALL BE TYPE-L COPPER WITH 3/4" ARMAFLEX ELASTOMERIC INSULATION. SEE SPECS. CONDENSATE DRAINS 2" AND LARGER MAY BE NO-HUB CAST IRON.

ELECTRICAL NOTE:
 CONTRACTOR SHALL PROVIDE NEUTRAL WIRE FOR EACH HEAT PUMP 3A, 4, 5 AND 6 BACK TO PANEL SERVING EXISTING UNIT. SEE MECHANICAL UNIT ELECTRICAL FUSED DISCONNECT SCHEDULE. FIELD VERIFY EXISTING PANEL LOCATIONS. PULL ADDITIONAL WIRE IN EXISTING CONDUIT. SEE SCHEDULE FOR WIRE SIZES, TYPICAL.

NOTE:
 SEE SPECIFICATIONS FOR AVAILABILITY OF THEATER FOR MECHANICAL UNIT REPLACEMENT. THEATER HAS TIME SENSITIVE WORK SCHEDULES. COORDINATE ALL HVAC OUTAGES IN THIS SPACE WITH THE OWNER.

CONTRACTOR SHALL REMOVE EXISTING THIN TEMP BOILER/STORAGE TANK SERVING KITCHEN AND ALL ASSOCIATED APPURTENANCES WITHIN WATER HEATER ROOM IN ITS ENTIRETY. INSTALL NEW INSTANTANEOUS WATER HEATER AND RECONNECT TO EXISTING CW SUPPLY, DISHWASHER HW, KITCHEN FIXTURE HW SUPPLY PIPING AND EXISTING GAS PIPING. PROVIDE NEW HOT AND TEMPERED WATER RECIRCULATION PUMPS AND PLUMBING SPECIALTIES AS INDICATED IN DETAIL. RECONNECT TO EXISTING BOILER FLUE PIPING. WATER HEATER SHALL BE SET TO DELIVER 180° WATER AT STARTUP. KITCHEN WATER HEATER SHALL BE REPLACED DURING SUMMER/WINTER BREAK WHEN KITCHEN IS NOT BEING USED. PROVIDED MIXING VALVE TO DELIVER 140° WATER TO EXISTING FIXTURES. CONNECT 180° PIPING TO EXISTING DISHWASHER SUPPLY PIPING. SEE DETAIL.



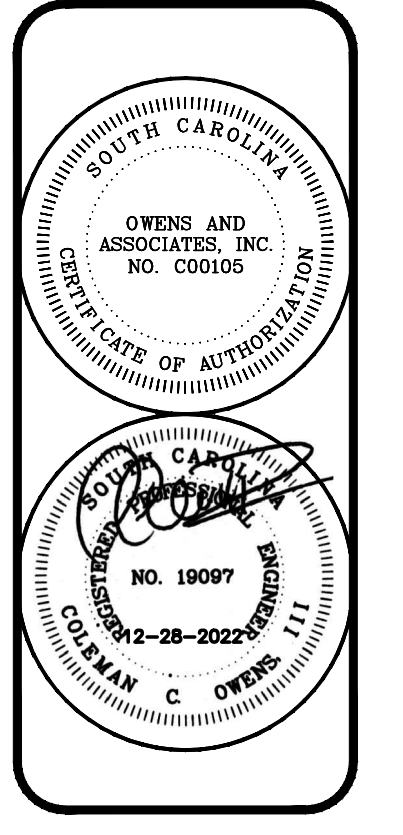
PLUMBING NOTE:
 CONTRACTOR SHALL REWORK CONDENSATE DRAINS IN THIS AREA AS SHOWN. CONTRACTOR SHALL CAP EXISTING CONDENSATE DRAINS CONNECTED TO ROOF DRAIN LEADERS AT RISER WITHIN WALL AND ABANDON IN PLACE. PROVIDE NEW CONDENSATE DRAINS AS SHOWN. NEW DRAINS SHALL BE TYPE-L COPPER WITH 3/4" ARMAFLEX ELASTOMERIC INSULATION. SEE SPECS. CONDENSATE DRAINS 2" AND LARGER MAY BE NO-HUB CAST IRON.

NOTE:
 CONTRACTOR SHALL PROVIDE NEW HANGERS RODS FOR REWORKED CONDENSATE DRAINS. CONTRACTOR SHALL PROPERLY FIRESTOP ALL PENETRATIONS OF FIRE RATED SUB-CEILING TO INSTALL NEW SUPPORTS FOR CONDENSATE DRAINS, TYPICAL.

MECHANICAL AND ELECTRICAL FIRST FLOOR AUDITORIUM FLOOR PLAN AREA "A"—BASE BID
 SCALE: 1/8"=1'-0"

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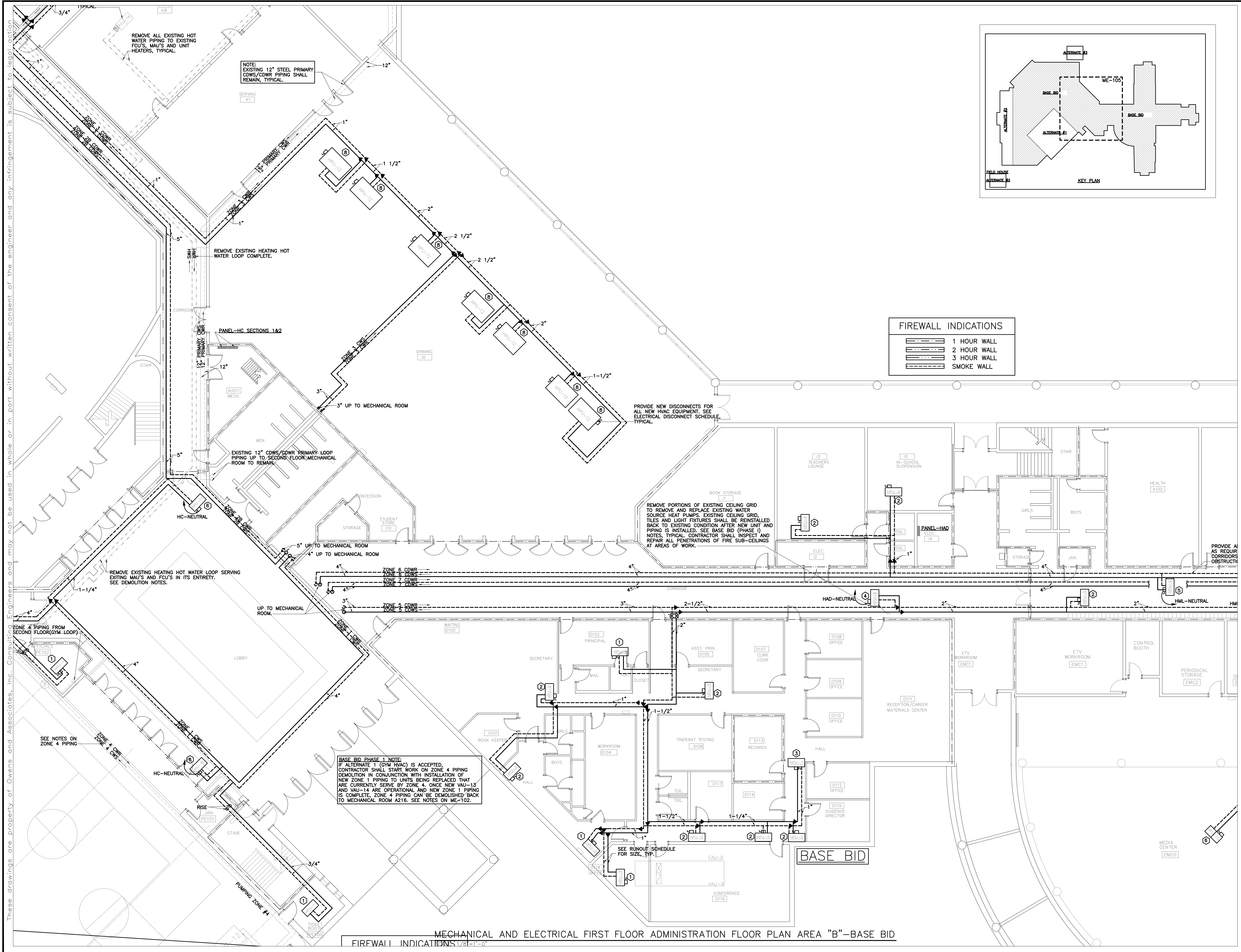
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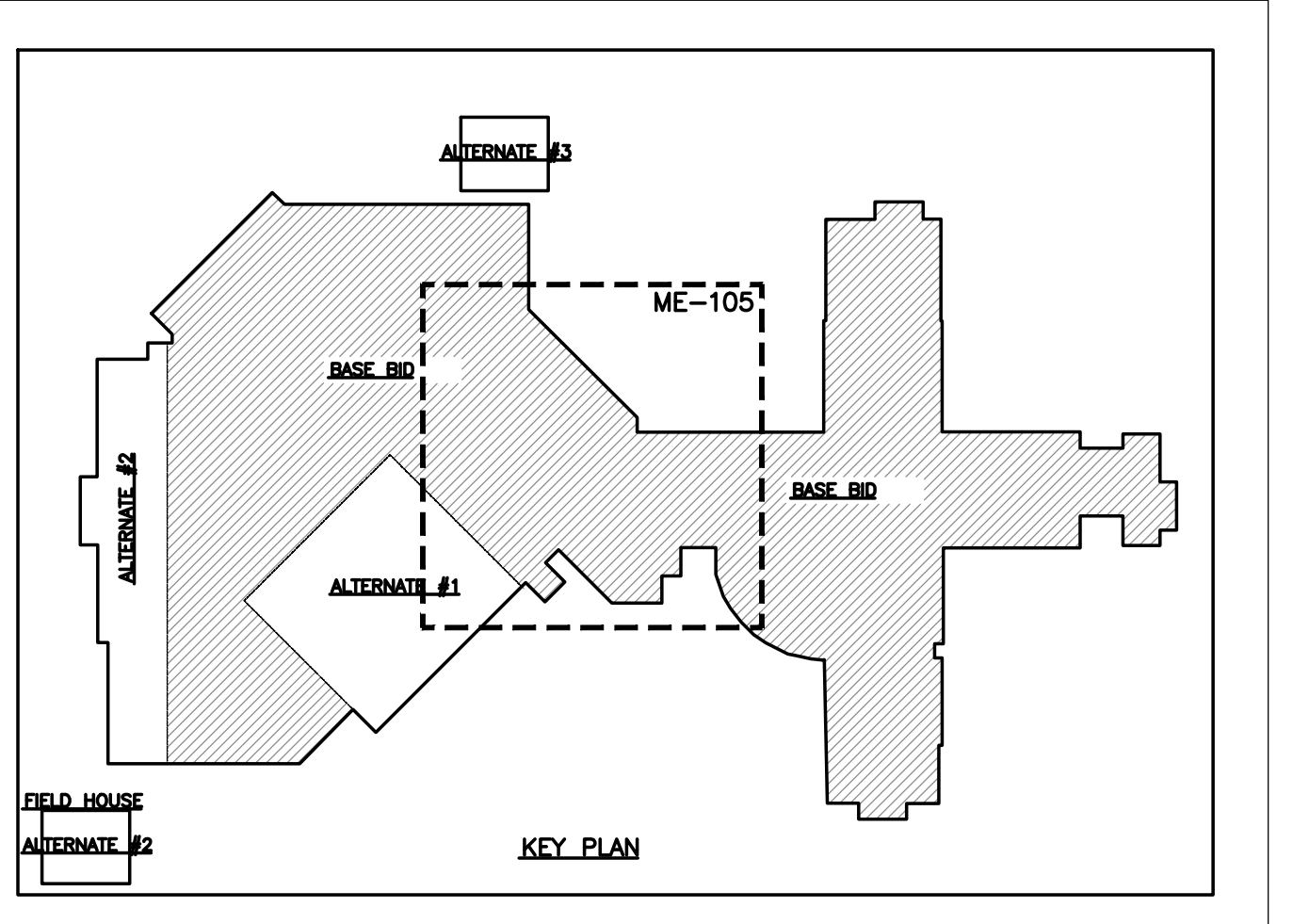
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 date: 12-28-2022

ME-104



MECHANICAL AND ELECTRICAL FIRST FLOOR ADMINISTRATION FLOOR PLAN AREA "B" - BASE BID



FIREWALL INDICATIONS

	1 HOUR WALL
	2 HOUR WALL
	3 HOUR WALL
	SMOKE WALL

BASE BID PHASE 1 NOTE:
 IF ALTERNATE 1 (GYM HVAC) IS ACCEPTED, CONTRACTOR SHALL START WORK ON ZONE 4 PIPING DEMOLITION IN CONJUNCTION WITH INSTALLATION OF NEW ZONE 1 PIPING TO UNITS BEING REPLACED THAT ARE CURRENTLY SERVED BY ZONE 4. ONCE NEW VAL-13 AND VAL-14 ARE OPERATIONAL AND NEW ZONE 1 PIPING IS COMPLETE, ZONE 4 PIPING CAN BE DEMOLISHED BACK TO MECHANICAL ROOM A216. SEE NOTES ON ME-102.

REMOVE PORTIONS OF EXISTING CEILING GRID TO REMOVE AND REPLACE EXISTING WATER SOURCE HEAT PUMPS, EXISTING CEILING GRID, TILES AND LIGHT FIXTURES SHALL BE REINSTALLED BACK TO EXISTING CONDITION AFTER NEW UNIT AND PIPING IS INSTALLED. SEE BASE BID (PHASE 1) NOTES. TYPICAL CONTRACTOR SHALL INSPECT AND REPAIR ALL PENETRATIONS OF FIRE SUB-CEILING AT AREAS OF WORK.

REMOVE EXISTING HEATING HOT WATER LOOP SERVING EXISTING MAU'S AND FOU'S IN ITS ENTIRETY. SEE DEMOLITION NOTES.

REMOVE EXISTING HEATING HOT WATER LOOP COMPLETE.

REMOVE ALL EXISTING HOT WATER PIPING TO EXISTING FCU'S, MAU'S AND UNIT HEATERS, TYPICAL.

NOTE: EXISTING 12" STEEL PRIMARY CDWS/CDWR PIPING SHALL REMAIN, TYPICAL.

PROVIDE NEW DISCONNECTS FOR ALL NEW HVAC EQUIPMENT. SEE ELECTRICAL DISCONNECT SCHEDULE, TYPICAL.

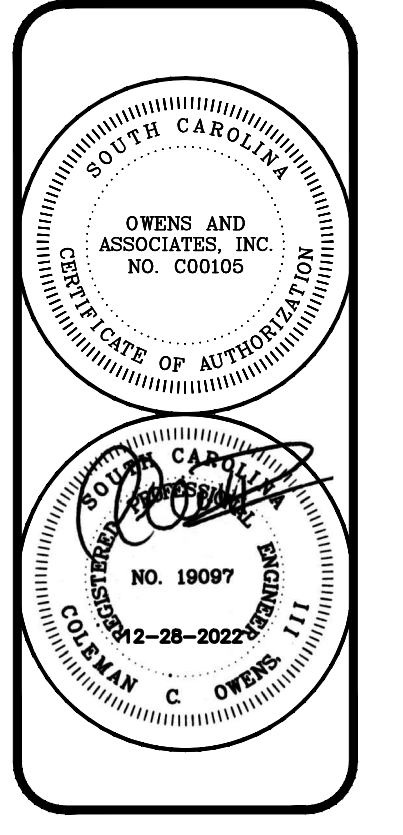
PROVIDE AS REQUIRED CORRIDOR OBSTRUCTION

SEE RUNOUT SCHEDULE FOR SIZE, TYP.

SEE NOTES ON ZONE 4 PIPING

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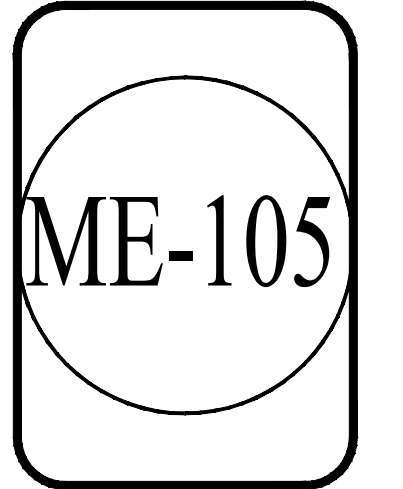
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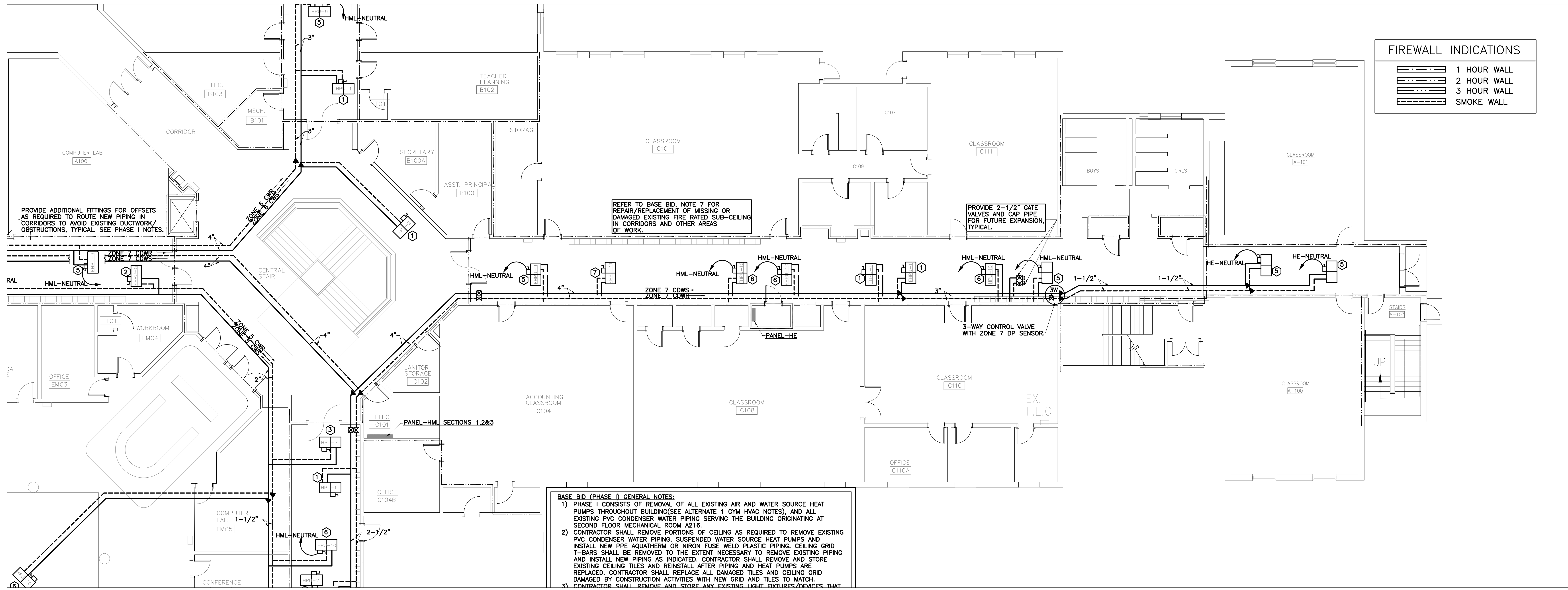
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REVISIONS

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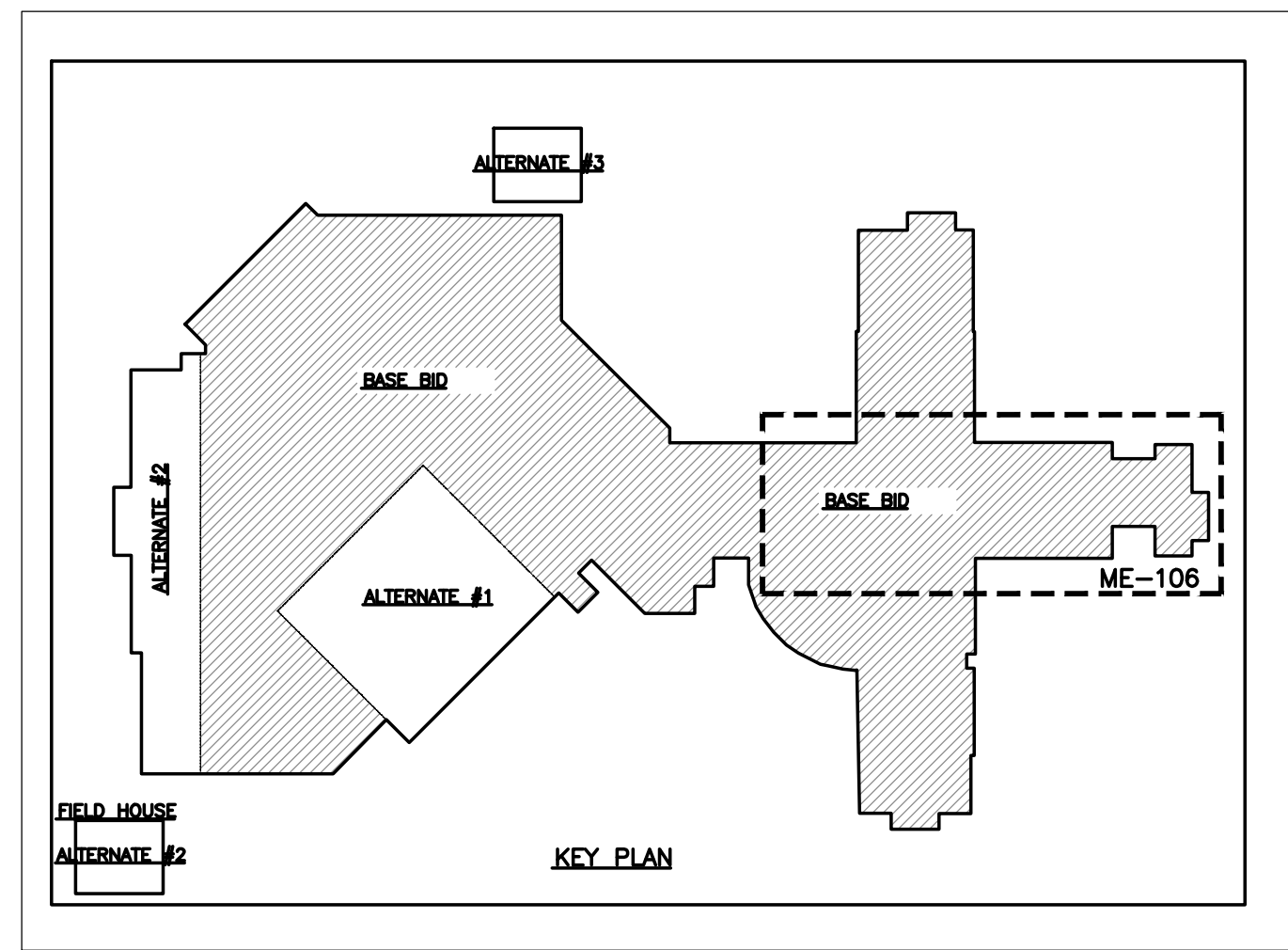
FIREWALL INDICATIONS

	1 HOUR WALL
	2 HOUR WALL
	3 HOUR WALL
	SMOKE WALL

BASE BID (PHASE I) GENERAL NOTES:

- 1) PHASE I CONSISTS OF REMOVAL OF ALL EXISTING AIR AND WATER SOURCE HEAT PUMPS THROUGHOUT BUILDING (SEE ALTERNATE 1 GYM HVAC NOTES), AND ALL EXISTING PVC CONDENSER WATER PIPING SERVING THE BUILDING ORIGINATING AT SECOND FLOOR MECHANICAL ROOM A216.
- 2) CONTRACTOR SHALL REMOVE PORTIONS OF CEILING AS REQUIRED TO REMOVE EXISTING PVC CONDENSER WATER PIPING, SUSPENDED WATER SOURCE HEAT PUMPS AND INSTALL NEW PIPE AQUATHERM OR NIRON FUSE WELD PLASTIC PIPING. CEILING GRID T-BARS SHALL BE REMOVED TO THE EXTENT NECESSARY TO REMOVE EXISTING PIPING AND INSTALL NEW PIPING AS INDICATED. CONTRACTOR SHALL REMOVE AND STORE EXISTING CEILING TILES AND REINSTALL AFTER PIPING AND HEAT PUMPS ARE REPLACED. CONTRACTOR SHALL REPLACE ALL DAMAGED TILES AND CEILING GRID DAMAGED BY CONSTRUCTION ACTIVITIES WITH NEW GRID AND TILES TO MATCH.
- 3) CONTRACTOR SHALL REMOVE AND STORE ANY EXISTING LIGHT FIXTURES/DEVICES THAT

MECHANICAL AND ELECTRICAL FIRST FLOOR CLASSROOM FLOOR PLAN AREA "C"—BASE BID
SCALE: 1/8"=1'-0"



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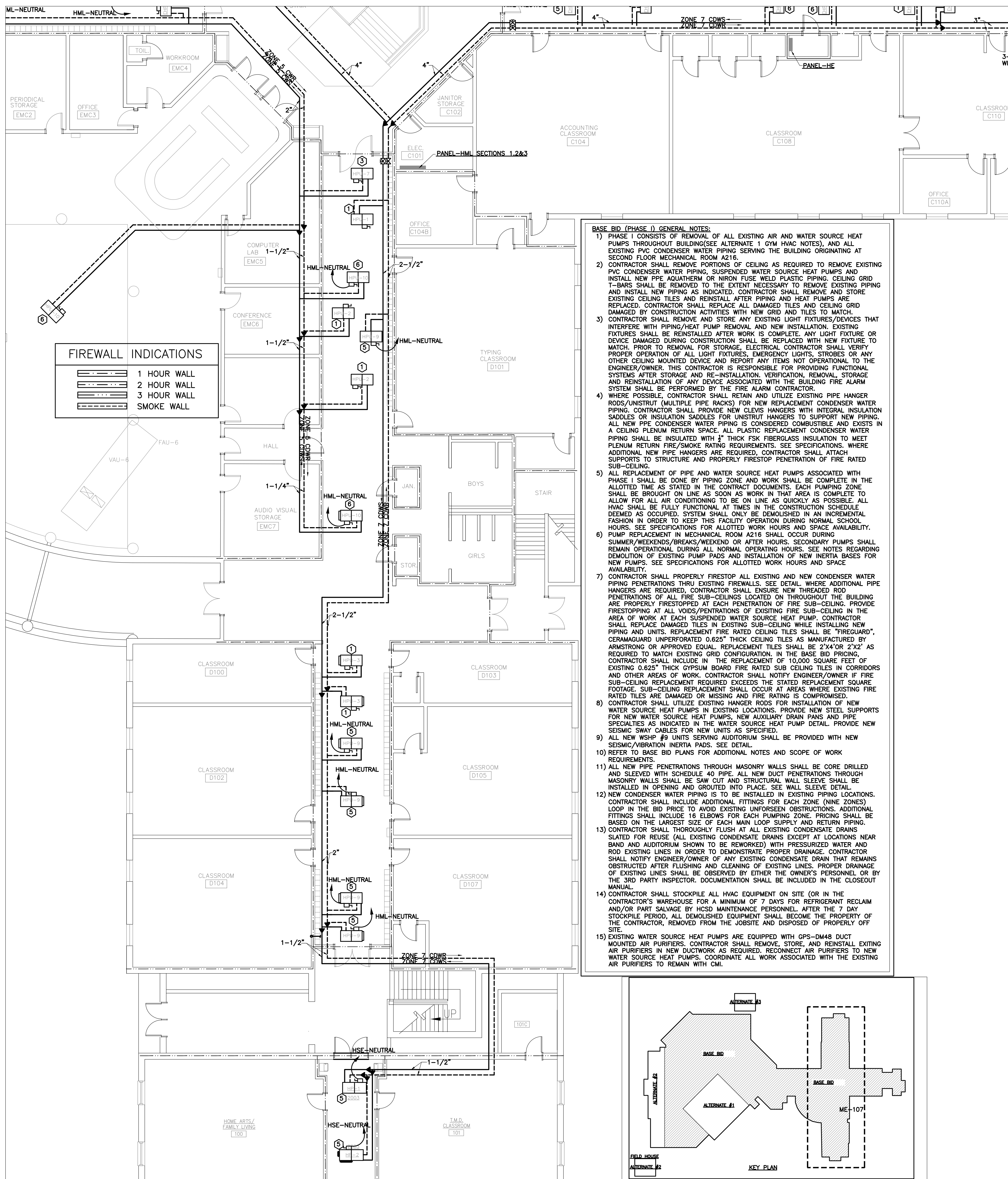
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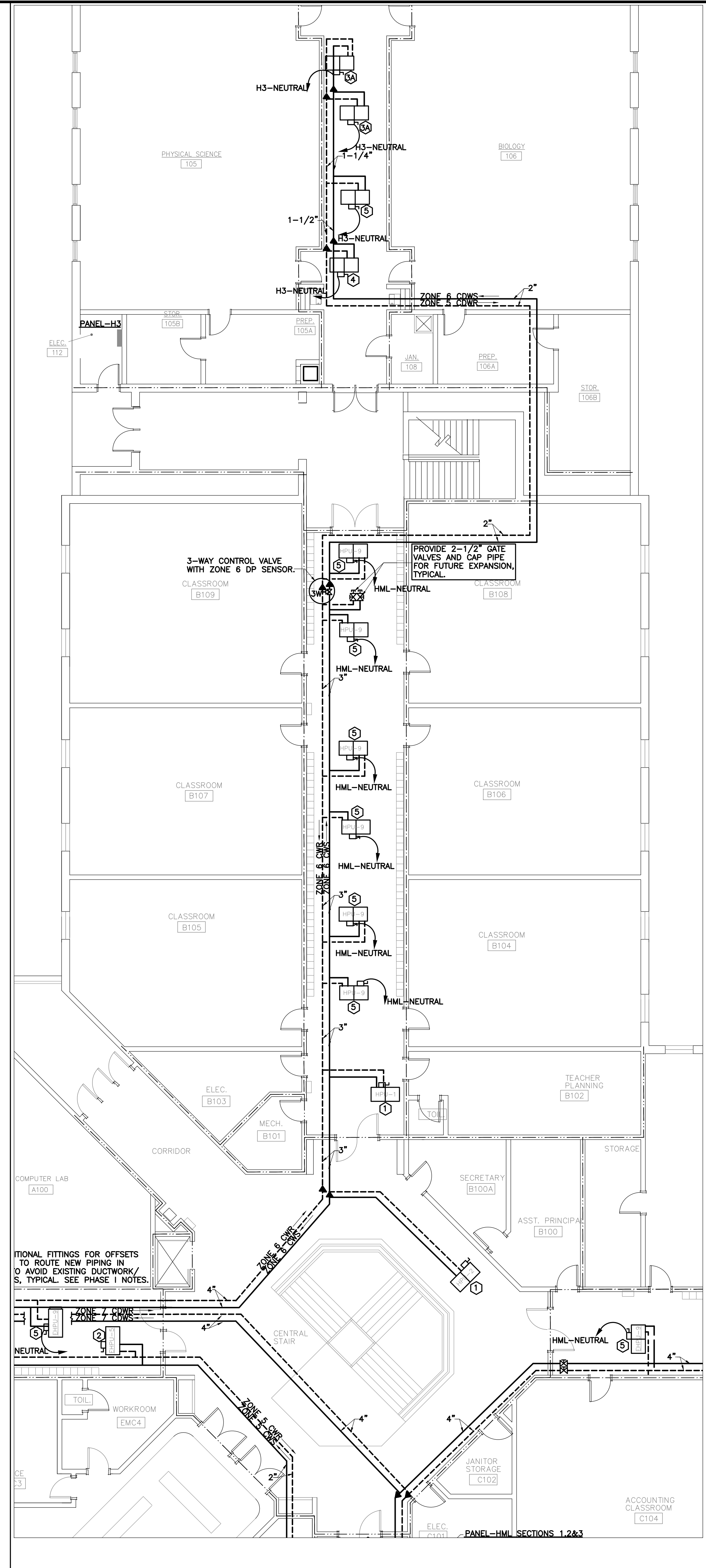
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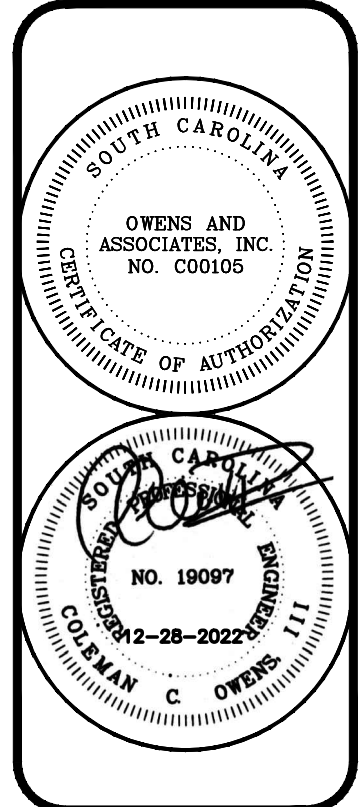
- BASE BID (PHASE I) GENERAL NOTES:**
- 1) PHASE I CONSISTS OF REMOVAL OF ALL EXISTING AIR AND WATER SOURCE HEAT PUMPS THROUGHOUT BUILDING (SEE ALTERNATE 1 GYM HVAC NOTES), AND ALL EXISTING PVC CONDENSER WATER PIPING SERVING THE BUILDING ORIGINATING AT SECOND FLOOR MECHANICAL ROOM A216.
 - 2) CONTRACTOR SHALL REMOVE PORTIONS OF CEILING AS REQUIRED TO REMOVE EXISTING PVC CONDENSER WATER PIPING, SUSPENDED WATER SOURCE HEAT PUMPS AND INSTALL NEW PIPE AQUATHERM OR NIRON FUSE WELD PLASTIC PIPING. CEILING GRID T-BARS SHALL BE REMOVED TO THE EXTENT NECESSARY TO REMOVE EXISTING PIPING AND INSTALL NEW PIPING AS INDICATED. CONTRACTOR SHALL REMOVE AND STORE EXISTING CEILING TILES AND REINSTALL AFTER PIPING AND HEAT PUMPS ARE REPLACED. CONTRACTOR SHALL REPLACE ALL DAMAGED TILES AND CEILING GRID DAMAGED BY CONSTRUCTION ACTIVITIES WITH NEW GRID AND TILES TO MATCH.
 - 3) CONTRACTOR SHALL REMOVE AND STORE ANY EXISTING LIGHT FIXTURES/DEVICES THAT INTERFERE WITH PIPING/HEAT PUMP REMOVAL AND NEW INSTALLATION. EXISTING FIXTURES SHALL BE REINSTALLED AFTER WORK IS COMPLETE. ANY LIGHT FIXTURE OR DEVICE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH NEW FIXTURE TO MATCH. PRIOR TO REMOVAL FOR STORAGE, ELECTRICAL CONTRACTOR SHALL VERIFY PROPER OPERATION OF ALL LIGHT FIXTURES, EMERGENCY LIGHTS, STROBES OR ANY OTHER CEILING MOUNTED DEVICE AND REPORT ANY ITEMS NOT OPERATIONAL TO THE ENGINEER/OWNER. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING FUNCTIONAL SYSTEMS AFTER STORAGE AND RE-INSTALLATION. VERIFICATION, REMOVAL, STORAGE AND REINSTALLATION OF ANY DEVICE ASSOCIATED WITH THE BUILDING FIRE ALARM SYSTEM SHALL BE PERFORMED BY THE FIRE ALARM CONTRACTOR.
 - 4) WHERE POSSIBLE, CONTRACTOR SHALL RETAIN AND UTILIZE EXISTING PIPE HANGER RODS/UNISTRUT (MULTIPLE PIPE RACKS) FOR NEW REPLACEMENT CONDENSER WATER PIPING. CONTRACTOR SHALL PROVIDE NEW CLEVIS HANGERS WITH INTEGRAL INSULATION SADDLES OR INSULAN SADDLES FOR UNISTRUT HANGERS TO SUPPORT NEW PIPING. ALL NEW PVC CONDENSER WATER PIPING IS CONSIDERED COMBUSTIBLE AND EXISTS IN A CEILING PLENUM RETURN SPACE. ALL PLASTIC REPLACEMENT CONDENSER WATER PIPING SHALL BE INSULATED WITH 2" THICK FSK FIBERGLASS INSULATION TO MEET PLENUM RETURN FIRE/SMOKE RATING REQUIREMENTS. SEE SPECIFICATIONS. WHERE ADDITIONAL NEW PIPE HANGERS ARE REQUIRED, CONTRACTOR SHALL ATTACH SUPPORTS TO STRUCTURE AND PROPERLY FIRESTOP PENETRATION OF FIRE RATED SUB-CEILING.
 - 5) ALL REPLACEMENT OF PIPE AND WATER SOURCE HEAT PUMPS ASSOCIATED WITH PHASE I SHALL BE DONE BY PIPING ZONE AND WORK SHALL BE COMPLETE IN THE ALLOTTED TIME AS STATED IN THE CONTRACT DOCUMENTS. EACH PUMPING ZONE SHALL BE BROUGHT ON LINE AS SOON AS WORK IN THAT AREA IS COMPLETE TO ALLOW FOR ALL AIR CONDITIONING TO BE ON LINE AS QUICKLY AS POSSIBLE. ALL HVAC SHALL BE FULLY FUNCTIONAL AT TIMES IN THE CONSTRUCTION SCHEDULE DEEMED AS OCCUPIED. SYSTEM SHALL ONLY BE IN AN INCREMENTAL FASHION IN ORDER TO KEEP THIS FACILITY OPERATIONAL DURING NORMAL SCHOOL HOURS. SEE SPECIFICATIONS FOR ALLOTTED WORK HOURS AND SPACE AVAILABILITY.
 - 6) PUMP REPLACEMENT IN MECHANICAL ROOM A216 SHALL OCCUR DURING SUMMER/WEEKENDS/BREAKS/WEEKEND OR AFTER HOURS. SECONDARY PUMPS SHALL REMAIN OPERATIONAL DURING ALL NORMAL OPERATING HOURS. SEE NOTES REGARDING DEMOLITION OF EXISTING PUMP PADS AND INSTALLATION OF NEW INERTIA BASES FOR NEW PUMPS. SEE SPECIFICATIONS FOR ALLOTTED WORK HOURS AND SPACE AVAILABILITY.
 - 7) CONTRACTOR SHALL PROPERLY FIRESTOP ALL EXISTING AND NEW CONDENSER WATER PIPING PENETRATIONS THRU EXISTING FIREWALLS. SEE DETAIL WHERE ADDITIONAL PIPE HANGERS ARE REQUIRED. CONTRACTOR SHALL ENSURE NEW THREADED ROD PENETRATIONS OF ALL FIRE SUB-CEILING LOCATED ON THROUGHOUT THE BUILDING ARE PROPERLY FIRESTOPPED AT EACH PENETRATION OF FIRE SUB-CEILING. PROVIDE FIRESTOPPING AT ALL VOIDS/PENETRATIONS OF EXISTING FIRE SUB-CEILING IN THE AREA OF WORK AT EACH SUSPENDED WATER SOURCE HEAT PUMP. CONTRACTOR SHALL REPLACE DAMAGED TILES IN EXISTING SUB-CEILING WHILE INSTALLING NEW PIPING AND UNITS. FIRE RATED CEILING TILES SHALL BE "FIREGUARD", CERAMAGUARD UNPERFORATED 0.625" THICK CEILING TILES AS MANUFACTURED BY ARMSTRONG OR APPROVED EQUAL. REPLACEMENT TILES SHALL BE 2'x4' OR 2'x2' AS REQUIRED TO MATCH EXISTING GRID CONFIGURATION. IN THE BASE BID PRICING, CONTRACTOR SHALL INCLUDE IN THE REPLACEMENT OF 10,000 SQUARE FEET OF EXISTING 0.625" THICK GYPSUM BOARD FIRE RATED SUB CEILING TILES IN CORRIDORS AND OTHER AREAS OF WORK. CONTRACTOR SHALL NOTIFY ENGINEER/OWNER IF FIRE SUB-CEILING REPLACEMENT EXCEEDS THE STATED REPLACEMENT SQUARE FOOTAGE. SUB-CEILING REPLACEMENT SHALL OCCUR AT AREAS WHERE EXISTING FIRE RATED TILES ARE DAMAGED OR MISSING AND FIRE RATING IS COMPROMISED.
 - 8) CONTRACTOR SHALL UTILIZE EXISTING HANGER RODS FOR INSTALLATION OF NEW WATER SOURCE HEAT PUMPS IN EXISTING LOCATIONS. PROVIDE NEW STEEL SUPPORTS FOR NEW WATER SOURCE HEAT PUMPS, NEW AUXILIARY DRAIN PANS AND PIPE SPECIALTIES AS INDICATED IN THE WATER SOURCE HEAT PUMP DETAIL. PROVIDE NEW SEISMIC SWAY CABLES FOR NEW UNITS AS SPECIFIED.
 - 9) ALL NEW WSP #9 UNITS SERVING AUDITORIUM SHALL BE PROVIDED WITH NEW SEISMIC/VIBRATION INERTIA PADS. SEE DETAIL.
 - 10) REFER TO BASE BID PLANS FOR ADDITIONAL NOTES AND SCOPE OF WORK REQUIREMENTS.
 - 11) ALL NEW PIPE PENETRATIONS THROUGH MASONRY WALLS SHALL BE CORE DRILLED AND SLEEVED WITH SCHEDULE 40 PIPE. ALL NEW DUCT PENETRATIONS THROUGH MASONRY WALLS SHALL BE SAW CUT AND STRUCTURAL WALL SLEEVE SHALL BE INSTALLED IN OPENING AND GROUTED INTO PLACE. SEE SLEEVE DETAIL.
 - 12) NEW CONDENSER WATER PIPING IS TO BE INSTALLED IN EXISTING PIPING LOCATIONS. CONTRACTOR SHALL INCLUDE ADDITIONAL FITTINGS FOR EACH ZONE (NINE ZONES). CONTRACTOR SHALL INCLUDE 16 ELBOWS FOR EACH PUMPING ZONE. PRICING SHALL BE BASED ON THE LARGEST SIZE OF EACH MAIN LOOP SUPPLY AND RETURN PIPING.
 - 13) CONTRACTOR SHALL THOROUGHLY FLUSH AT ALL EXISTING CONDENSATE DRAINS SLATED FOR REUSE (ALL EXISTING CONDENSATE DRAINS EXCEPT AT LOCATIONS NEAR BAND AND AUDITORIUM SHOWN TO BE REWORKED) WITH PRESSURIZED WATER AND ROD EXISTING LINES IN ORDER TO DEMONSTRATE PROPER DRAINAGE. CONTRACTOR SHALL NOTIFY ENGINEER/OWNER OF ANY EXISTING CONDENSATE DRAIN THAT REMAINS OBSTRUCTED AFTER FLUSHING AND CLEANING OF EXISTING LINES. PROPER DRAINAGE OF EXISTING LINES SHALL BE OBSERVED BY EITHER THE OWNER'S PERSONNEL OR BY THE 3RD PARTY INSPECTOR. DOCUMENTATION SHALL BE INCLUDED IN THE CLOSEOUT MANUAL.
 - 14) CONTRACTOR SHALL STOCKPILE ALL HVAC EQUIPMENT ON SITE (OR IN THE CONTRACTOR'S WAREHOUSE FOR A MINIMUM OF 7 DAYS FOR REFRIGERANT RECLAIM AND/OR PART SALVAGE BY HCSO MAINTENANCE PERSONNEL AFTER THE 7 DAY STOCKPILE PERIOD. ALL DEMOLISHED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR, REMOVED FROM THE JOBSITE AND DISPOSED OF PROPERLY OFF SITE.
 - 15) EXISTING WATER SOURCE HEAT PUMPS ARE EQUIPPED WITH GPS-DM48 DUCT MOUNTED AIR PURIFIERS. CONTRACTOR SHALL REMOVE, STORE, AND REINSTALL EXISTING AIR PURIFIERS IN NEW DUCTWORK AS REQUIRED. RECONNECT AIR PURIFIERS TO NEW WATER SOURCE HEAT PUMPS. COORDINATE ALL WORK ASSOCIATED WITH THE EXISTING AIR PURIFIERS TO REMAIN WITH CM.



MECHANICAL AND ELECTRICAL FIRST FLOOR PLAN AREA "D"—BASE BID
SCALE: 1/8"=1'-0"

MECHANICAL AND ELECTRICAL FIRST FLOOR PLAN AREA "E"—BASE BID
SCALE: 1/8"=1'-0"

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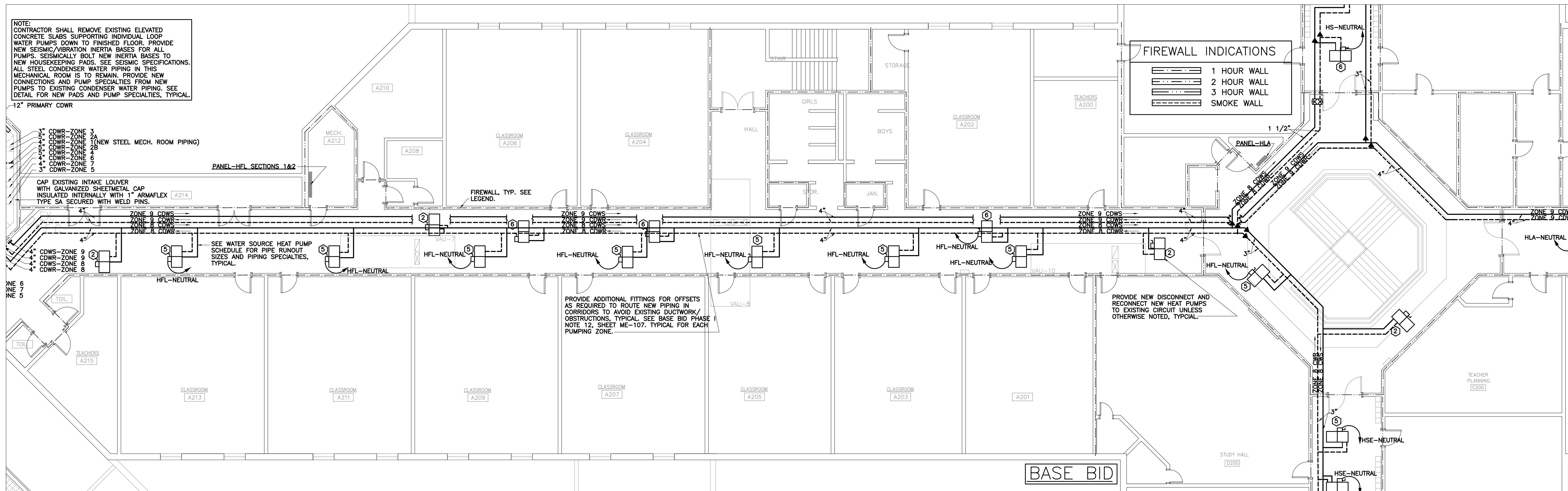
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ME-107

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NOTE:
 CONTRACTOR SHALL REMOVE EXISTING ELEVATED CONCRETE SLABS SUPPORTING INDIVIDUAL LOOP WATER PUMPS DOWN TO FINISHED FLOOR. PROVIDE NEW SEISMIC/VIBRATION INERTIA BASES FOR ALL PUMPS. SEISMICALLY BOLT NEW INERTIA BASES TO NEW HOUSEKEEPING PADS. SEE SEISMIC SPECIFICATIONS. ALL STEEL CONDENSER WATER PIPING IN THIS MECHANICAL ROOM IS TO REMAIN. PROVIDE NEW CONNECTIONS AND PUMP SPECIALTIES FROM NEW PUMPS TO EXISTING CONDENSER WATER PIPING. SEE DETAIL FOR NEW PADS AND PUMP SPECIALTIES, TYPICAL.

12" PRIMARY CDWR

37 CDWR-ZONE 3
 36 CDWR-ZONE 2A
 35 CDWR-ZONE 2B
 34 CDWR-ZONE 2C
 33 CDWR-ZONE 2D
 32 CDWR-ZONE 2E
 31 CDWR-ZONE 2F
 30 CDWR-ZONE 2G
 29 CDWR-ZONE 2H
 28 CDWR-ZONE 2I
 27 CDWR-ZONE 2J
 26 CDWR-ZONE 2K
 25 CDWR-ZONE 2L
 24 CDWR-ZONE 2M
 23 CDWR-ZONE 2N
 22 CDWR-ZONE 2O
 21 CDWR-ZONE 2P
 20 CDWR-ZONE 2Q
 19 CDWR-ZONE 2R
 18 CDWR-ZONE 2S
 17 CDWR-ZONE 2T
 16 CDWR-ZONE 2U
 15 CDWR-ZONE 2V
 14 CDWR-ZONE 2W
 13 CDWR-ZONE 2X
 12 CDWR-ZONE 2Y
 11 CDWR-ZONE 2Z
 10 CDWR-ZONE 2AA
 9 CDWR-ZONE 2AB
 8 CDWR-ZONE 2AC
 7 CDWR-ZONE 2AD
 6 CDWR-ZONE 2AE
 5 CDWR-ZONE 2AF

PANEL-HFL SECTIONS 1&2

CAP EXISTING INTAKE LOUVER WITH GALVANIZED SHEETMETAL CAP INSULATED INTERNALLY WITH 1" ARMAFLEX TYPE SA SECURED WITH WELD PINS.

SEE WATER SOURCE HEAT PUMP SCHEDULE FOR PIPE RUNOUT SIZES AND PIPING SPECIALTIES, TYPICAL.

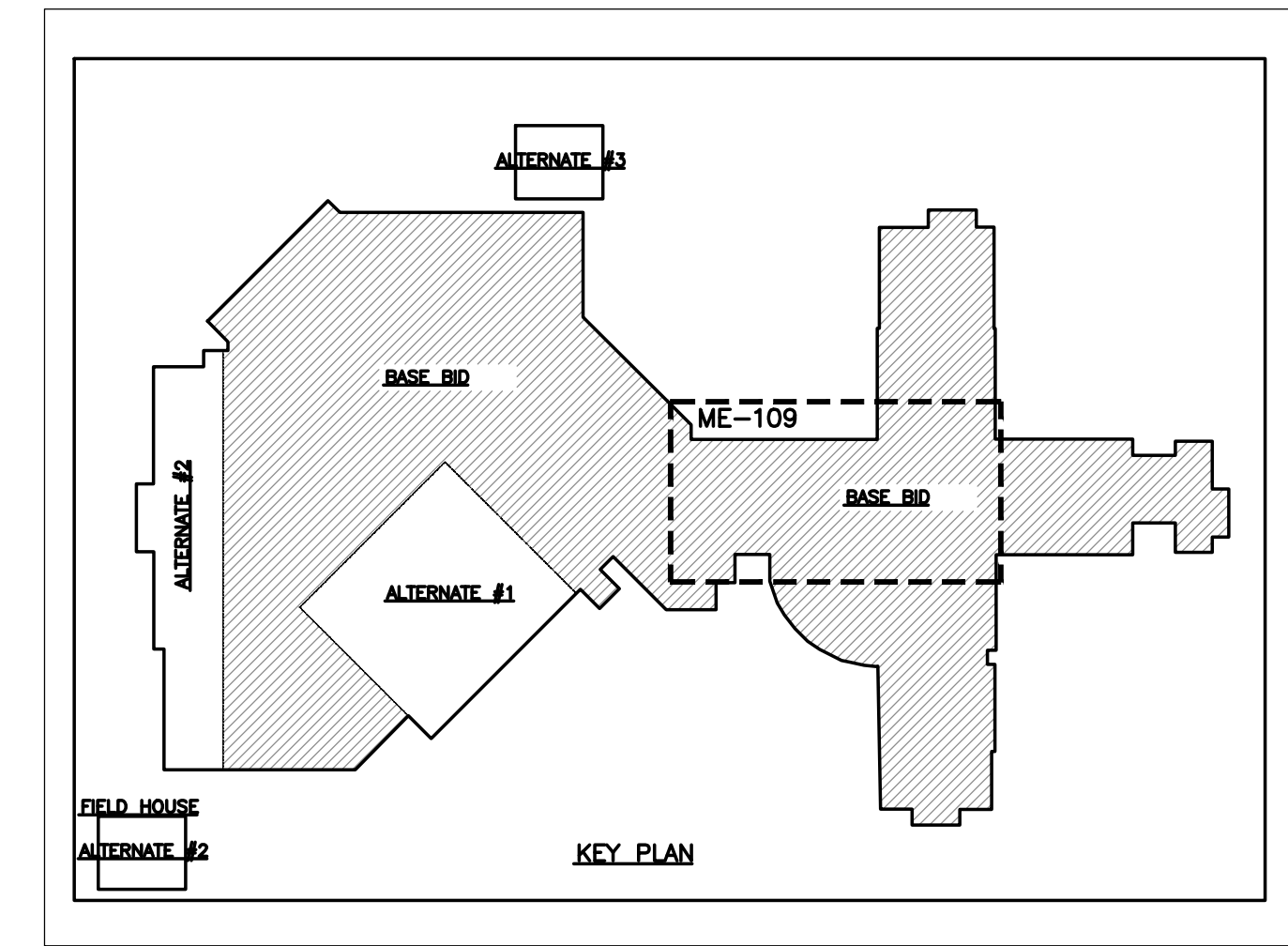
PROVIDE ADDITIONAL FITTINGS FOR OFFSETS AS REQUIRED TO ROUTE NEW PIPING IN CORRIDORS TO AVOID EXISTING DUCTWORK/OBSTRUCTIONS, TYPICAL. SEE BASE BID PHASE I NOTE 12, SHEET ME-107. TYPICAL FOR EACH PUMPING ZONE.

PROVIDE NEW DISCONNECT AND RECONNECT NEW HEAT PUMPS TO EXISTING CIRCUIT UNLESS OTHERWISE NOTED, TYPICAL.

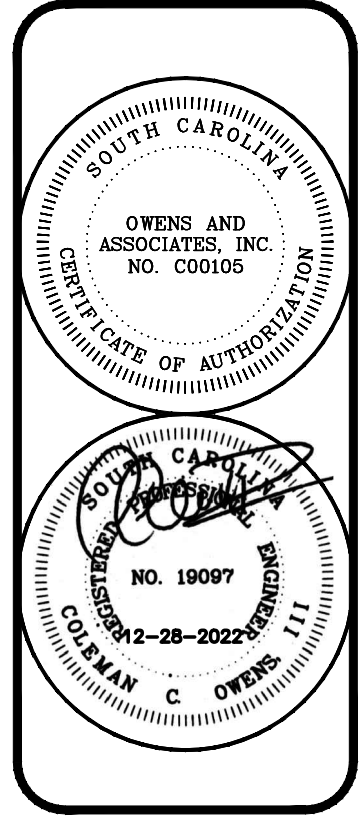
FIREWALL INDICATIONS

[Symbol]	1 HOUR WALL
[Symbol]	2 HOUR WALL
[Symbol]	3 HOUR WALL
[Symbol]	SMOKE WALL

MECHANICAL AND ELECTRICAL SECOND FLOOR PLAN AREA "C"—BASE BID
 SCALE: 1/8"=1'-0"



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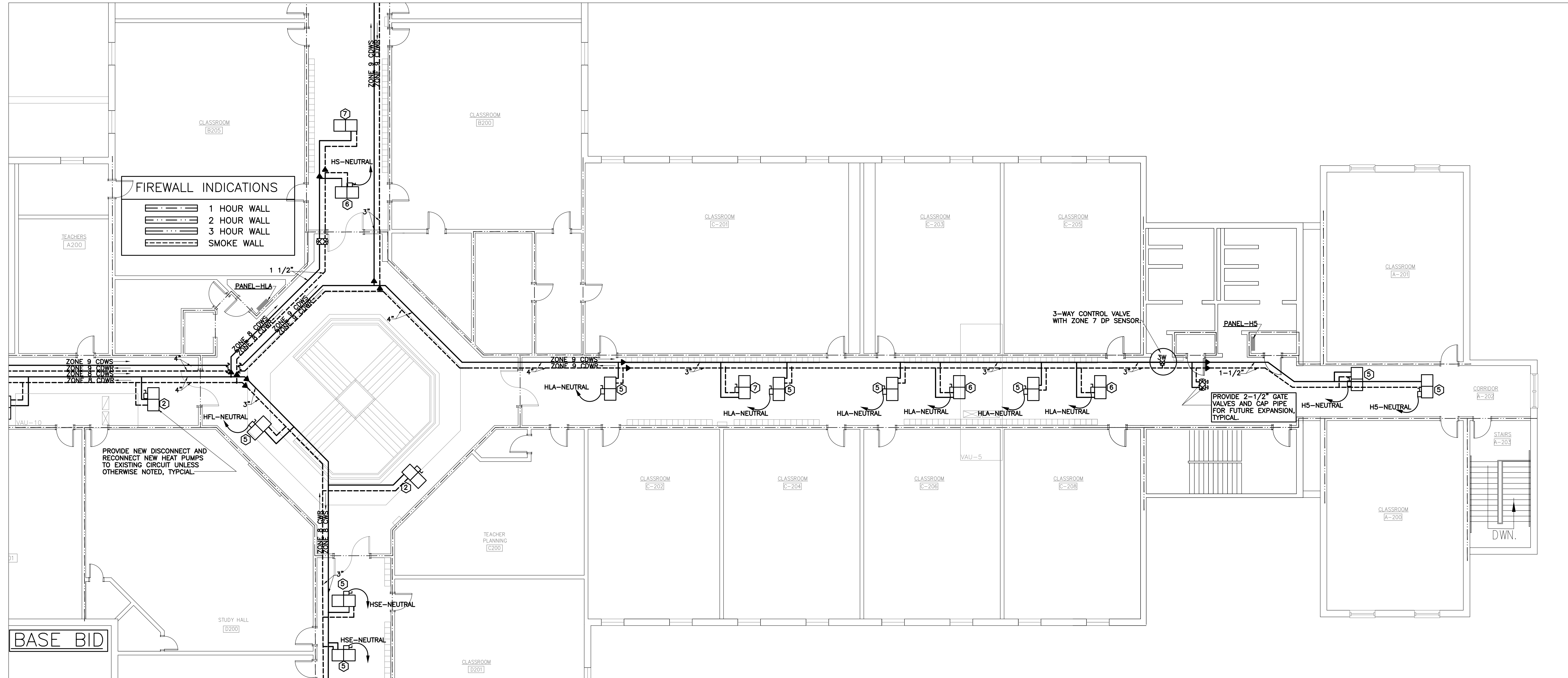
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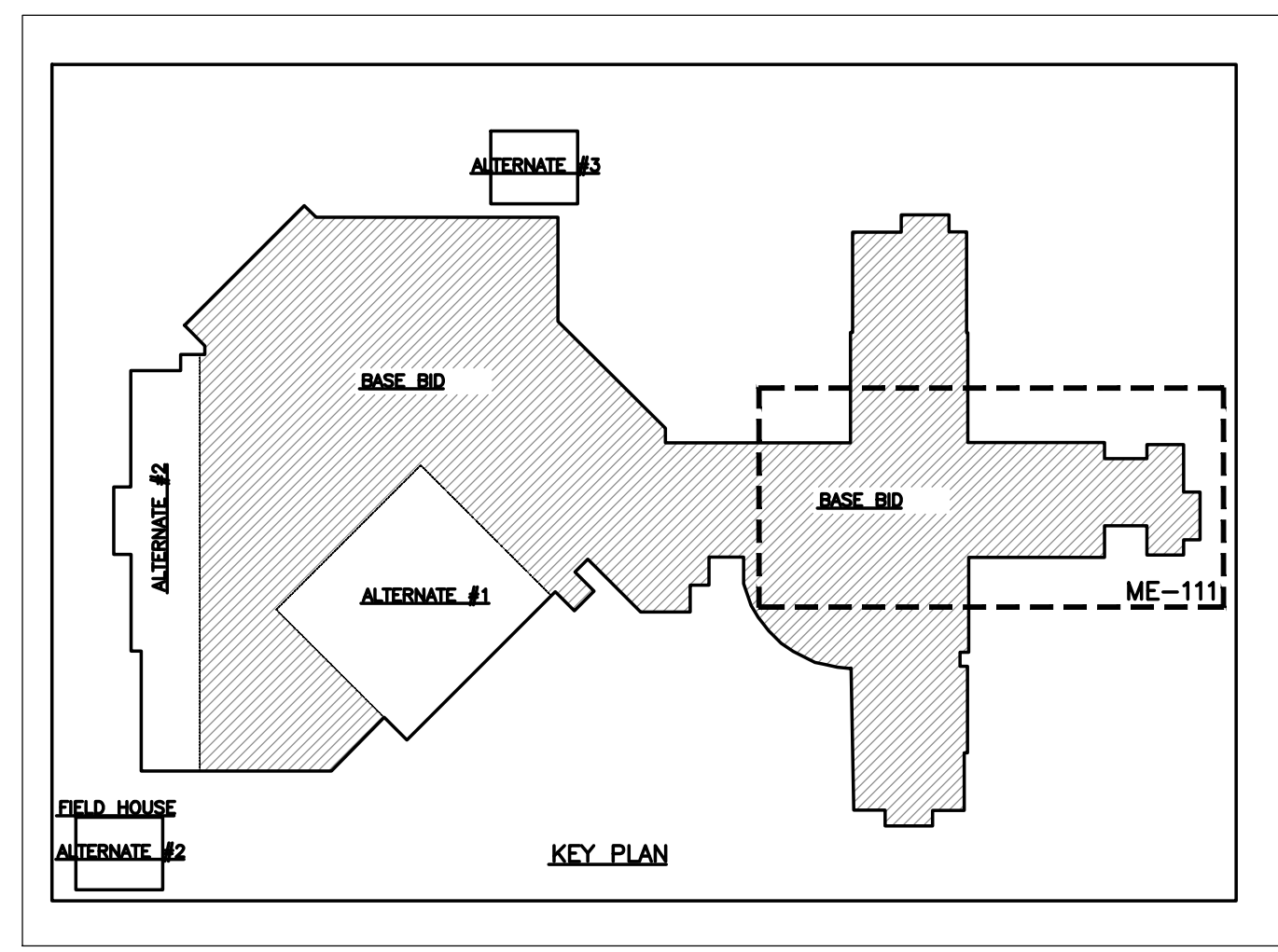
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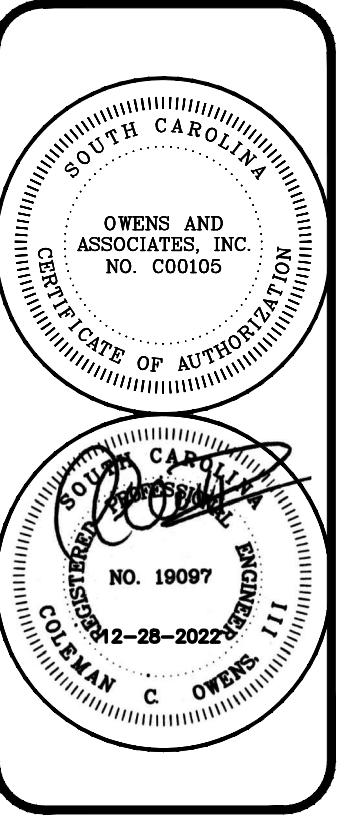
FIREWALL INDICATIONS

	1 HOUR WALL
	2 HOUR WALL
	3 HOUR WALL
	SMOKE WALL



MECHANICAL AND ELECTRICAL SECOND FLOOR PLAN AREA "C" - BASE BID
 SCALE: 1/8" = 1'-0"

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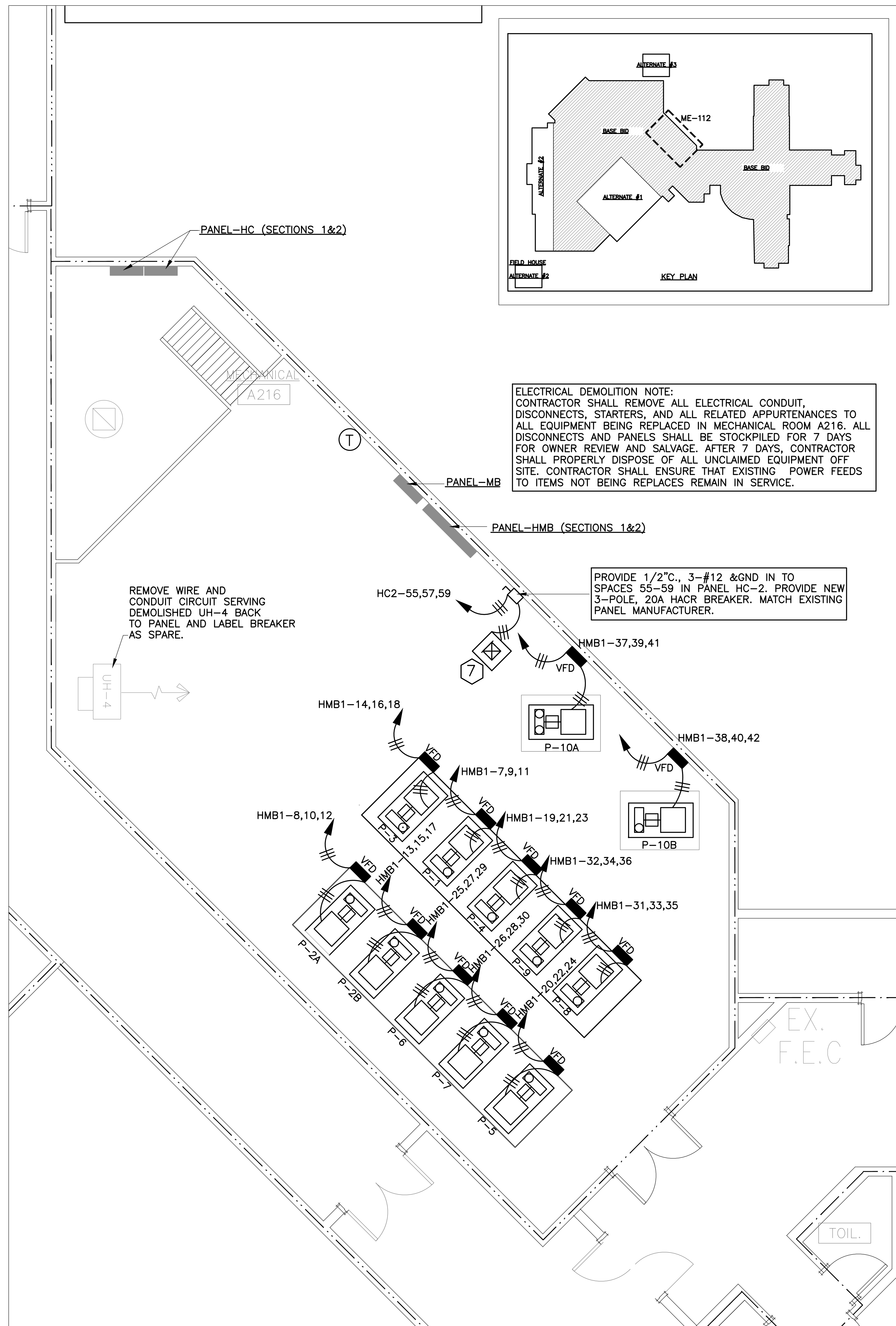
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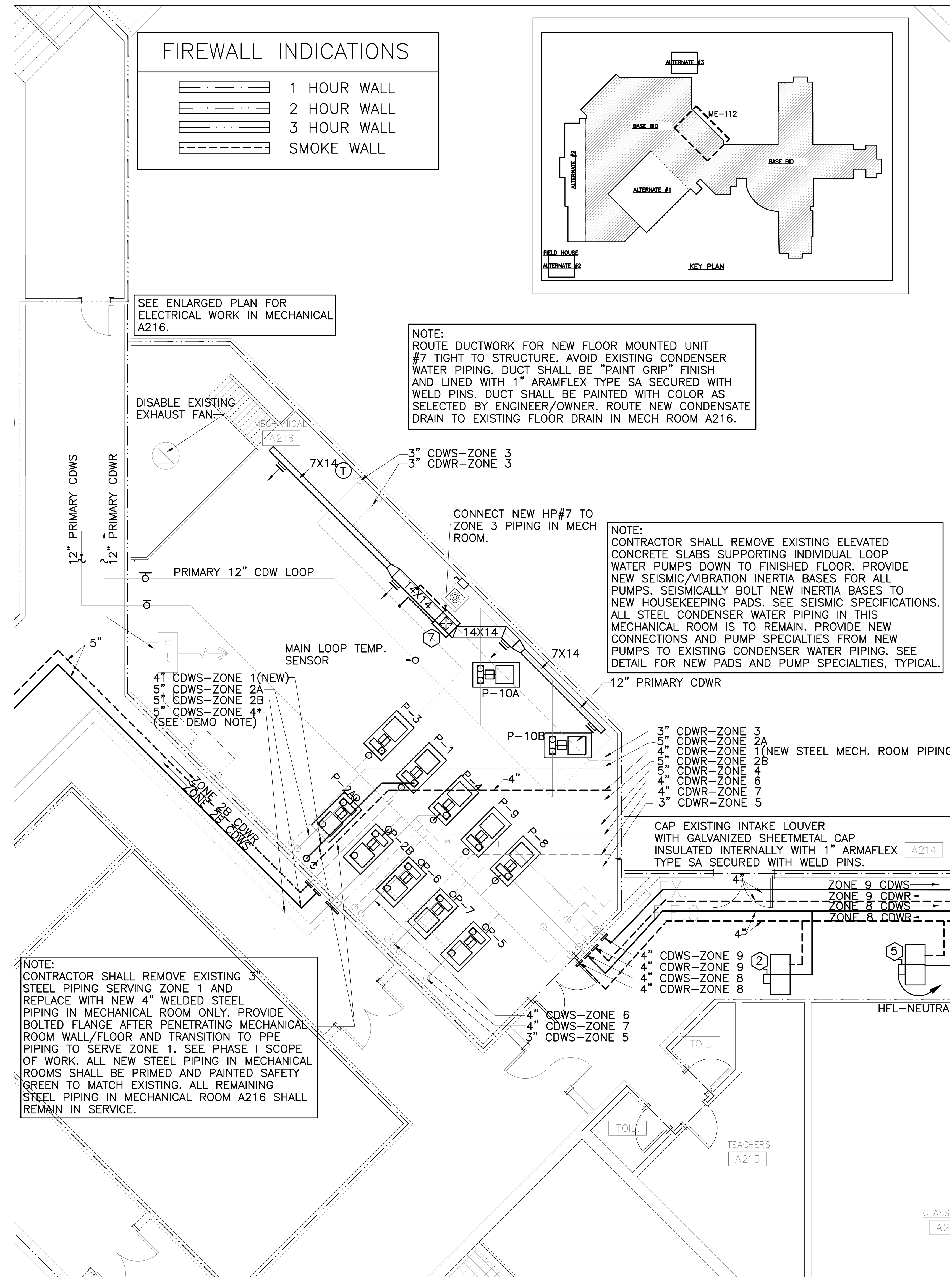
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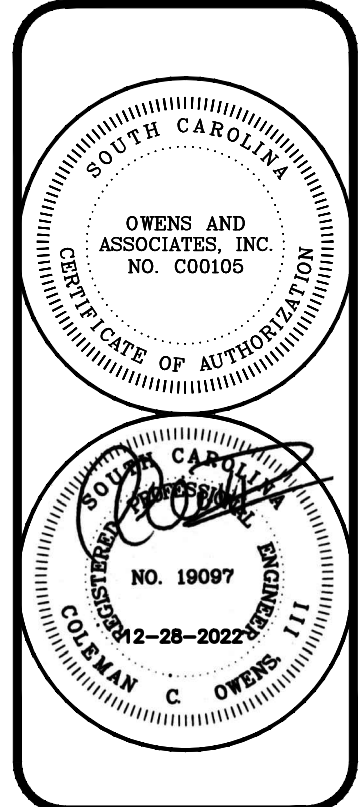


ENLARGED 2ND FLOOR ELECTRICAL PLAN ROOM M216 - BASE BID
SCALE: 1/4"=1'-0"



ENLARGED 2ND FLOOR MECHANICAL PIPING PLAN ROOM M216 - BASE BID
SCALE: 3/16"=1'-0"

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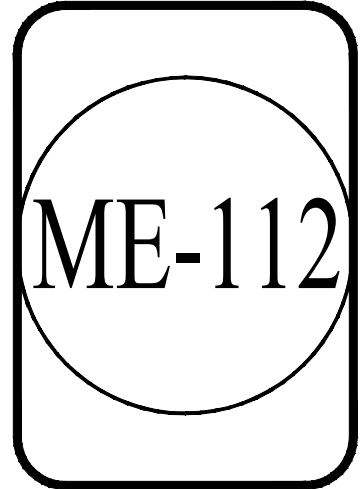


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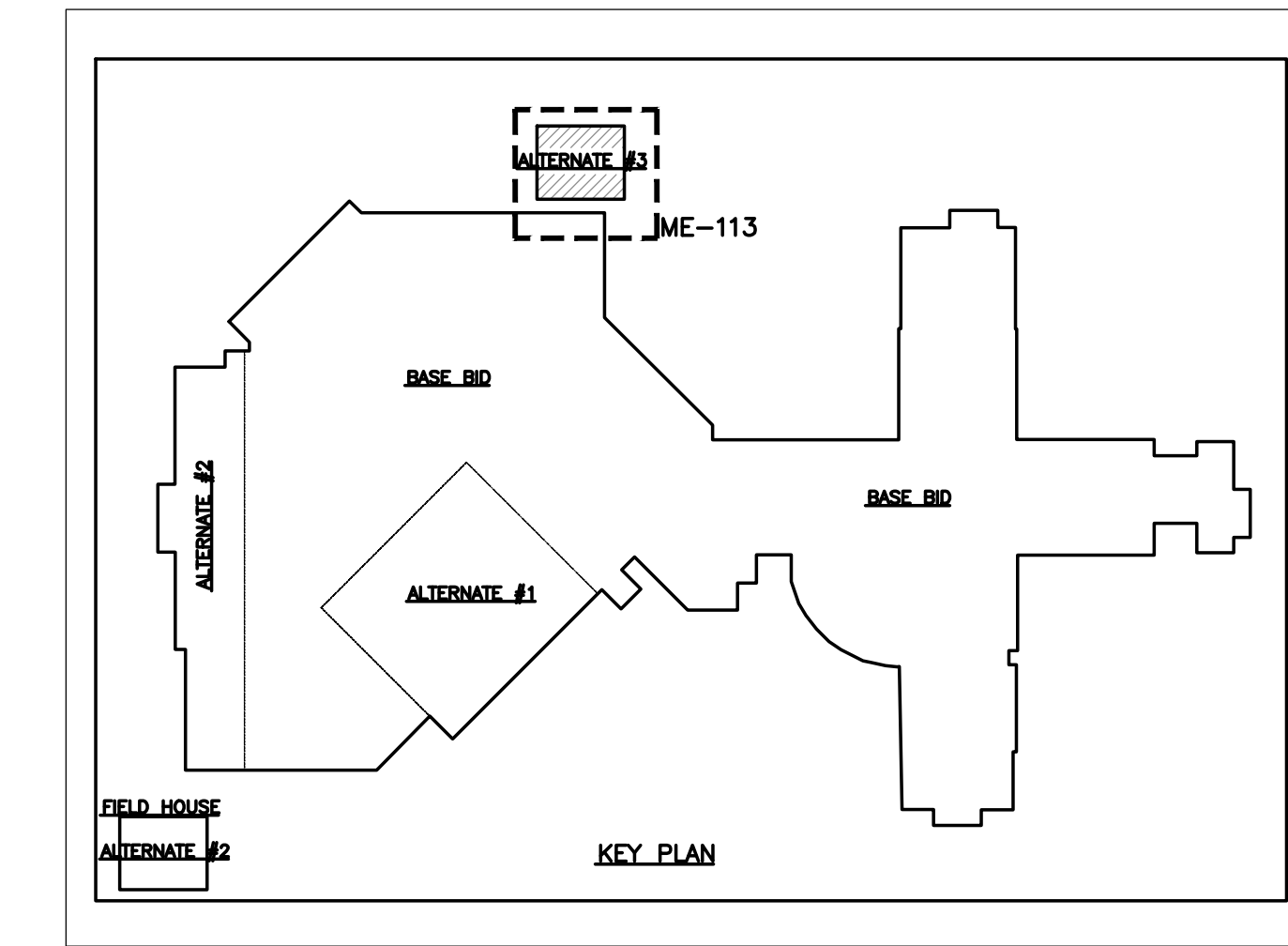
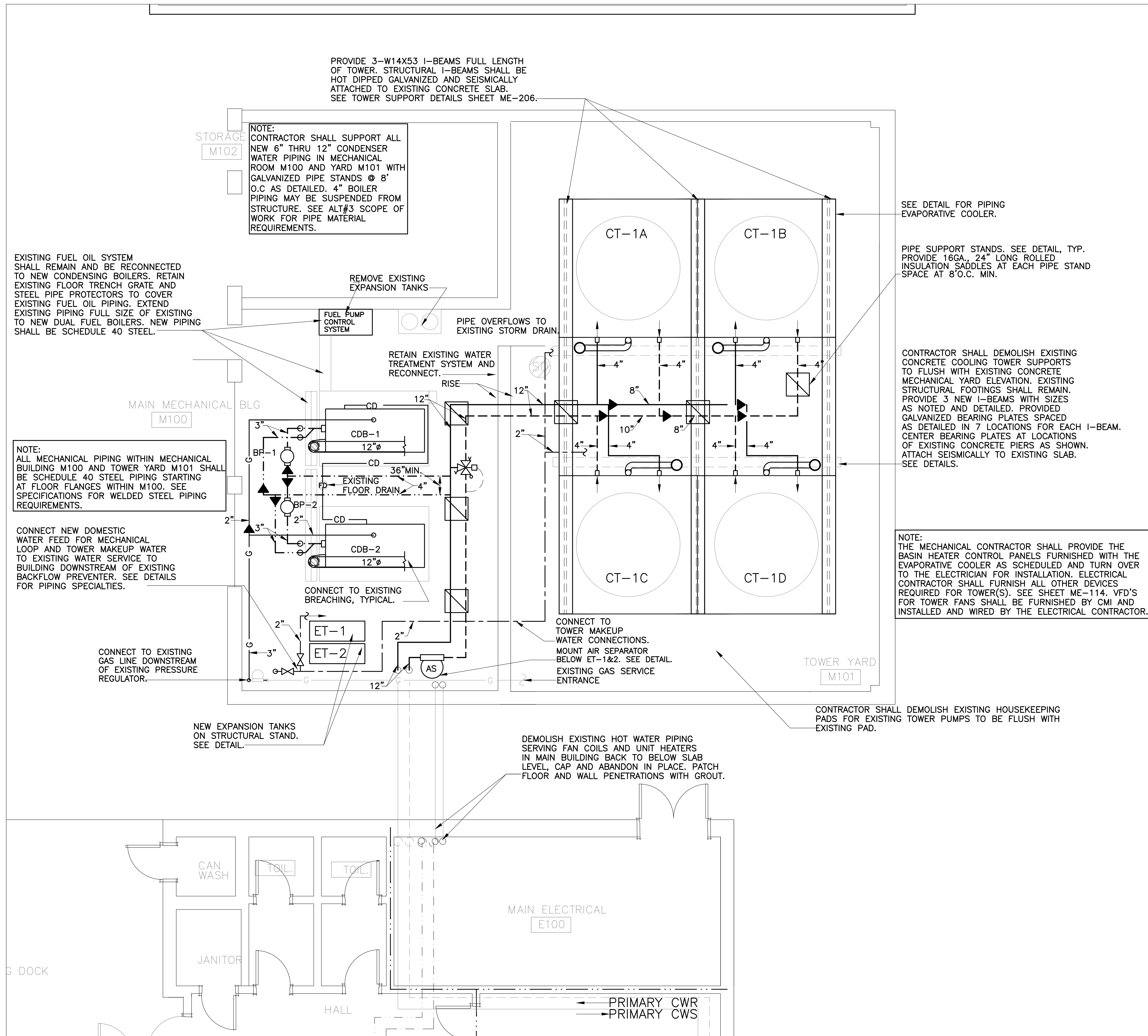
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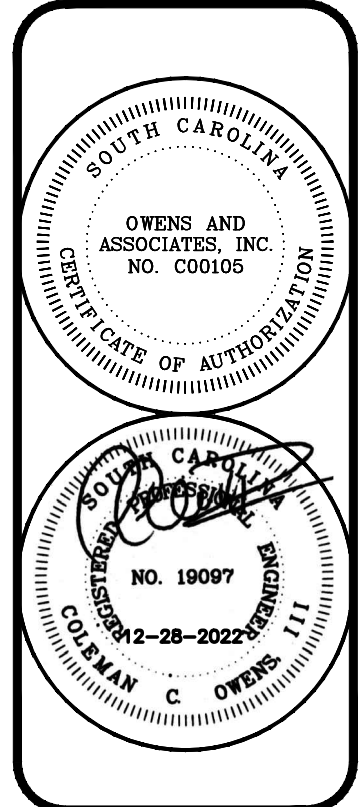


- ALTERNATE #3 (PHASE IV WORK) GENERAL NOTES:**
- 1) CONTRACTOR SHALL REMOVE EXISTING COOLING TOWER, PLATE AND FRAME HEAT EXCHANGER AND ASSOCIATED HOUSEKEEPING PAD, BOILERS, PUMPS, EXPANSION TANKS, PIPING, POWER AND CONDUIT TO EXISTING MECHANICAL EQUIPMENT BEING REPLACED. EXISTING CONDENSER WATER PIPING LOCATED INSIDE MAIN MECHANICAL BUILDING M100 SHALL BE REMOVED BACK TO FLOOR FLANGES AS INDICATED. CONTRACTOR SHALL REMOVE EXISTING HOUSEKEEPING PAD FOR EXTERIOR COOLING TOWER PUMPS AND EXISTING CONCRETE PIERS SUPPORTING EXISTING OPEN COOLING TOWER BEING REMOVED. EXISTING PUMP PADS AND CONCRETE PIERS SHALL BE FLUSH WITH EXISTING CONCRETE PAD IN COOLING TOWER YARD M101 TO CREATE FLAT AREA FOR NEW EVAPORATIVE COOLER.
 - 2) EXISTING FUEL OIL PUMP, PIPING AND CONTROL SYSTEM SHALL REMAIN OPERATIONAL AND BE RECONNECTED TO NEW CONDENSING BOILERS. EXISTING WATER TREATMENT SYSTEM SHALL REMAIN TO BE REUSED.
 - 3) ALL NEW CONDENSER WATER AND BOILER PIPING WITHIN MECHANICAL ROOM M100 AND TOWER YARD M101 FROM EXISTING FLOOR FLANGES TO NEW EVAPORATIVE COOLER SHALL BE SCHEDULE 40 WELDED STEEL PIPE AND FITTINGS. SEE SPECIFICATIONS.
 - 4) ALL EXTERIOR CONDENSER WATER AND MAKEUP WATER PIPING SHALL BE HEAT TRACED AT 4W/FT, INSULATED WITH 2" ARMAFLEX ELASTOMERIC INSULATION AND COVERED WITH 26GA STAINLESS STEEL JACKETING SECURED WITH STAINLESS BANDS AT 4' O.C.
 - 5) COORDINATE ALL ELECTRICAL AND CONTROL CONNECTIONS REQUIRED FOR NEW EVAPORATIVE COOLER INCLUDING BASIN HEATER PACKAGE, TOWER SPRAY PUMPS, FAN MOTOR SPACE HEATERS, VIBRATION SWITCH, TOWER FAN VARIABLE FREQUENCY DRIVES AND ALL NECESSARY COMPONENTS FOR AN OPERABLE SYSTEM.
 - 6) ALL VARIABLE SPEED DRIVES FOR TOWER FANS SHALL BE PROVIDED WITH INTEGRAL DISCONNECT AND FURNISHED BY THE CONTROLS CONTRACTOR. ELECTRICAL CONTRACTOR SHALL CONNECT COMPLETE.
 - 7) ALL DISCONNECTS FOR TOWER LOCATED IN THE TOWER YARD M101 SHALL BE FURNISHED WITH NEMA 4X STAINLESS STEEL ENCLOSURES.
 - 8) SEE DETAIL FOR NEW I-BEAM SUPPORTS FOR NEW EVAPORATIVE TOWER. CONTRACTOR SHALL MAKE EXISTING PAD AREA AS FLAT AS POSSIBLE AND PROVIDE GALVANIZED STEEL SHIM PADS AS DETAILED. SEE DETAIL. TOWER SHALL BE FASTENED TO NEW I-BEAMS AND SEISMICALLY BOLTED TO EXISTING SLAB.
 - 9) CONTRACTOR SHALL LOCATE TOWER TO MAINTAIN ADEQUATE SERVICE CLEARANCES FOR TOWER. SPACE IS LIMITED. COORDINATE PIPE ROUTING AND PIPE SUPPORTS WITH EXISTING CONDITIONS TO MAINTAIN SERVICE ACCESS TO TOWER.
 - 10) REFER TO PLANS FOR ALTERNATE #3 PLANS FOR ADDITIONAL NOTES AND SCOPE OF WORK REQUIREMENTS.

MECHANICAL PIPING PLAN—MAIN MECHANICAL BUILDING M100 (ALTERNATE #3)

SCALE: 1/8"=1'-0"

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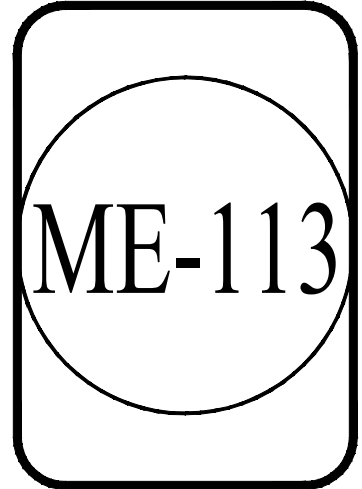
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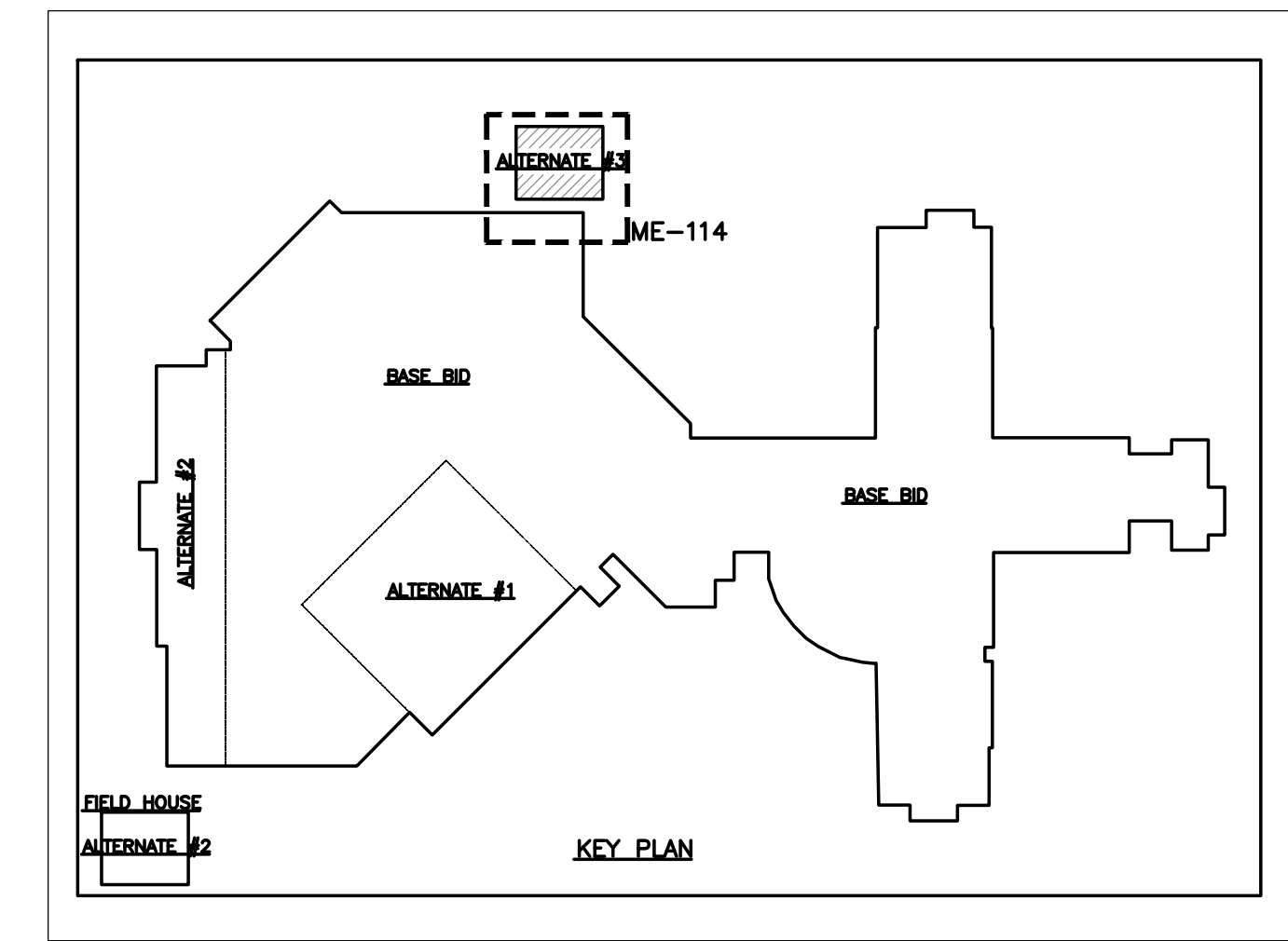
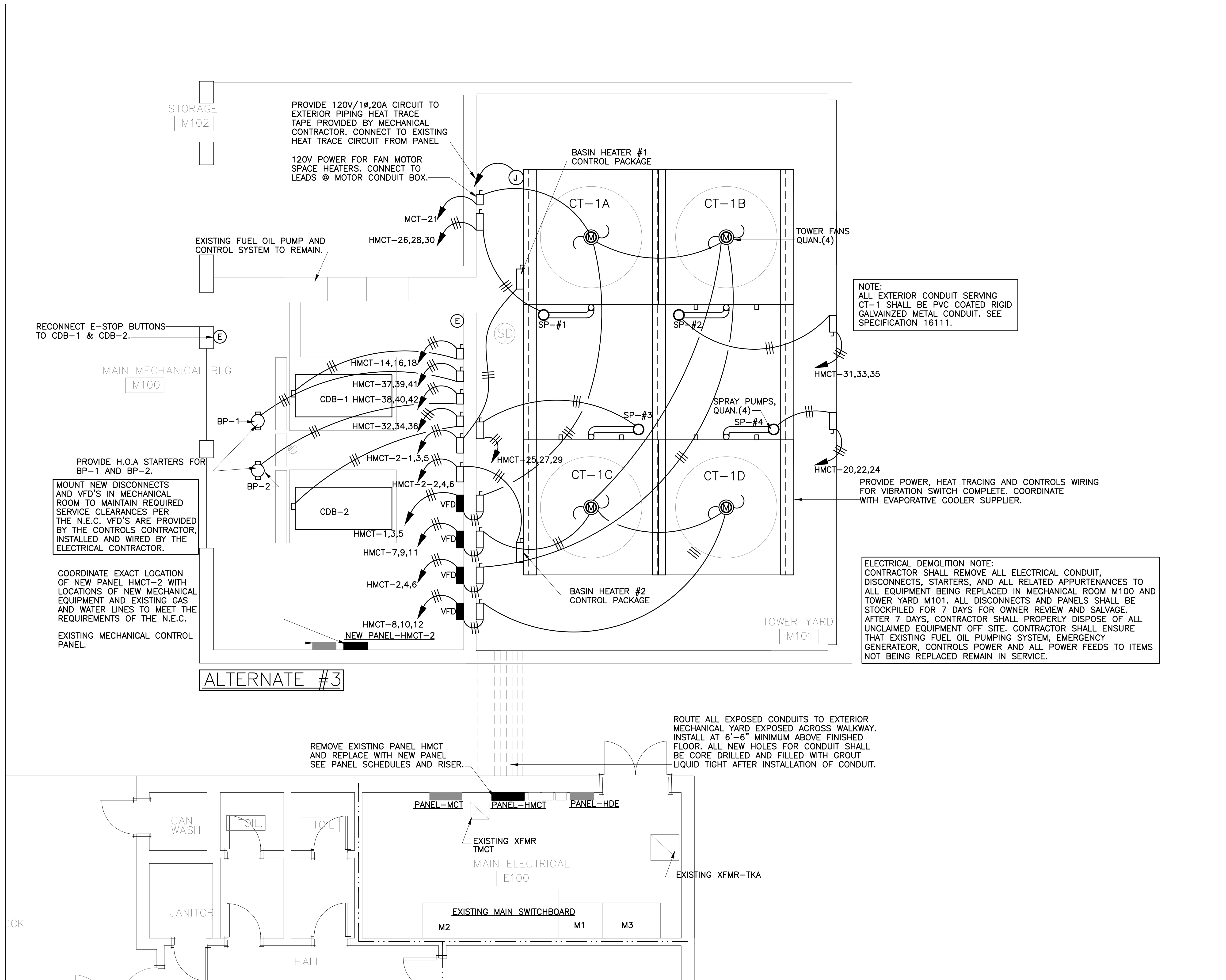
project:
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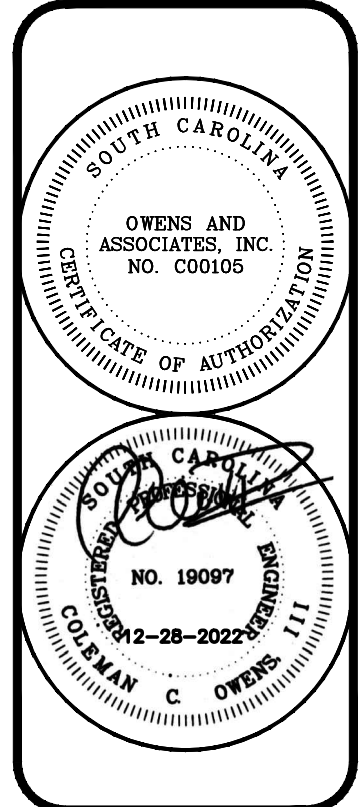


ELECTRICAL POWER PLAN—MAIN MECHANICAL BUILDING M100 (ALTERNATE #3)

SCALE: 1/8"=1'-0"

- ALTERNATE #3 (PHASE IV WORK) GENERAL NOTES:
- CONTRACTOR SHALL REMOVE EXISTING COOLING TOWER, PLATE AND FRAME HEAT EXCHANGER AND ASSOCIATED HOUSEKEEPING PAD, BOILERS, PUMPS, EXPANSION TANKS, PIPING, POWER AND CONDUIT TO EXISTING MECHANICAL EQUIPMENT BEING REPLACED. EXISTING CONDENSER WATER PIPING LOCATED INSIDE MAIN MECHANICAL BUILDING M100 SHALL BE REMOVED BACK TO FLOOR FLANGES AS INDICATED. CONTRACTOR SHALL REMOVE EXISTING HOUSEKEEPING PAD FOR EXTERIOR COOLING TOWER PUMPS AND EXISTING CONCRETE PIERS SUPPORTING EXISTING OPEN COOLING TOWER BEING REMOVED. EXISTING PUMP PADS AND CONCRETE PIERS SHALL BE FLUSH WITH EXISTING CONCRETE PAD IN COOLING TOWER YARD M101 TO CREATE FLAT AREA FOR NEW EVAPORATIVE COOLER.
 - EXISTING FUEL OIL PUMP, PIPING AND CONTROL SYSTEM SHALL REMAIN OPERATIONAL AND BE RECONNECTED TO NEW CONDENSING BOILERS. EXISTING WATER TREATMENT SYSTEM SHALL REMAIN TO BE REUSED.
 - ALL NEW CONDENSER WATER AND BOILER PIPING WITHIN MECHANICAL ROOM M100 AND TOWER YARD M101 FROM EXISTING FLOOR FLANGES TO NEW EVAPORATIVE COOLER SHALL BE SCHEDULE 40 WELDED STEEL PIPE AND FITTINGS. SEE SPECIFICATIONS.
 - ALL EXTERIOR CONDENSER WATER AND MAKEUP WATER PIPING SHALL BE HEAT TRACED AT 4W/FT, INSULATED WITH 2" ARMAFLEX ELASTOMERIC INSULATION AND COVERED WITH 26GA STAINLESS STEEL JACKETING SECURED WITH STAINLESS BANDS AT 4' O.C.
 - COORDINATE ALL ELECTRICAL AND CONTROL CONNECTIONS REQUIRED FOR NEW EVAPORATIVE COOLER INCLUDING BASIN HEATER PACKAGE, TOWER SPRAY PUMPS, FAN MOTOR SPACE HEATERS, VIBRATION SWITCH, TOWER FAN VARIABLE FREQUENCY DRIVES AND ALL NECESSARY COMPONENTS FOR AN OPERABLE SYSTEM.
 - ALL VARIABLE SPEED DRIVES FOR TOWER FANS SHALL BE PROVIDED WITH INTEGRAL DISCONNECT AND FURNISHED BY THE CONTROLS CONTRACTOR. ELECTRICAL CONTRACTOR SHALL CONNECT COMPLETE.
 - ALL DISCONNECTS FOR TOWER LOCATED IN THE TOWER YARD M101 SHALL BE FURNISHED WITH NEMA 4X STAINLESS STEEL ENCLOSURES.
 - SEE DETAIL FOR NEW I-BEAM SUPPORTS FOR NEW EVAPORATIVE TOWER. CONTRACTOR SHALL MAKE EXISTING PAD AREA AS FLAT AS POSSIBLE AND PROVIDE GALVANIZED STEEL SHIM PADS AS DETAILED. SEE DETAIL. TOWER SHALL BE FASTENED TO NEW I-BEAMS AND SEISMICALLY BOLTED TO EXISTING SLAB.
 - CONTRACTOR SHALL LOCATE TOWER TO MAINTAIN ADEQUATE SERVICE CLEARANCES FOR TOWER. SPACE IS LIMITED. COORDINATE PIPE ROUTING AND PIPE SUPPORTS WITH EXISTING CONDITIONS TO MAINTAIN SERVICE ACCESS TO TOWER.
 - REFER TO PLANS FOR ALTERNATE #3 PLANS FOR ADDITIONAL NOTES AND SCOPE OF WORK REQUIREMENTS.

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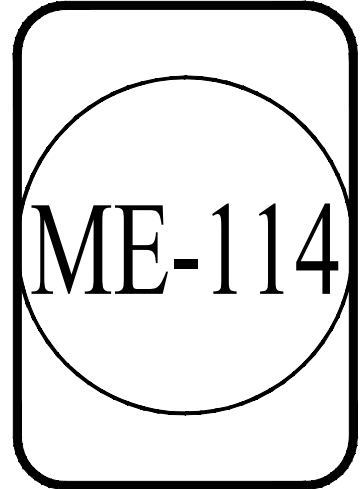
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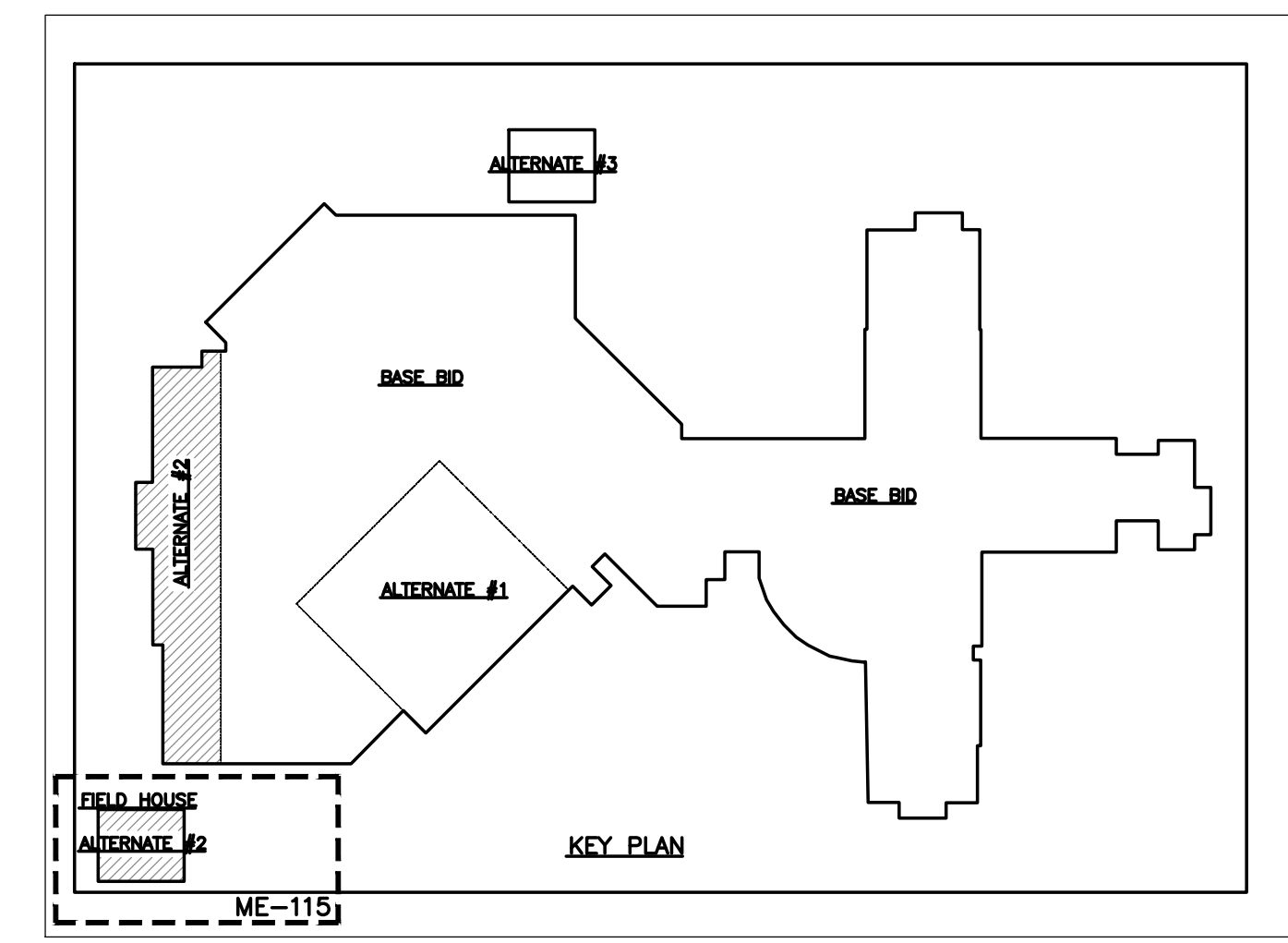
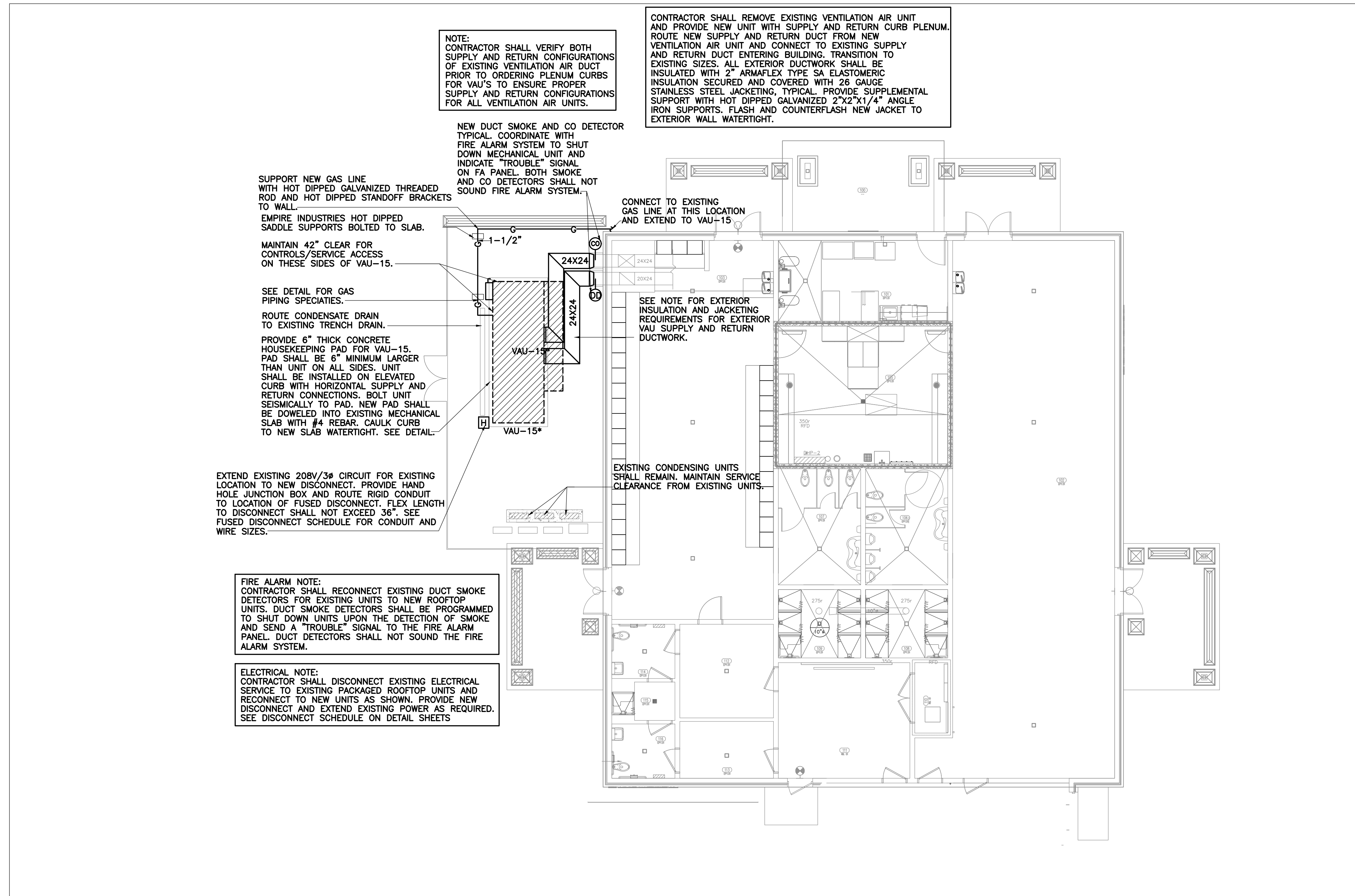
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project: 2126
date: 12-28-2022

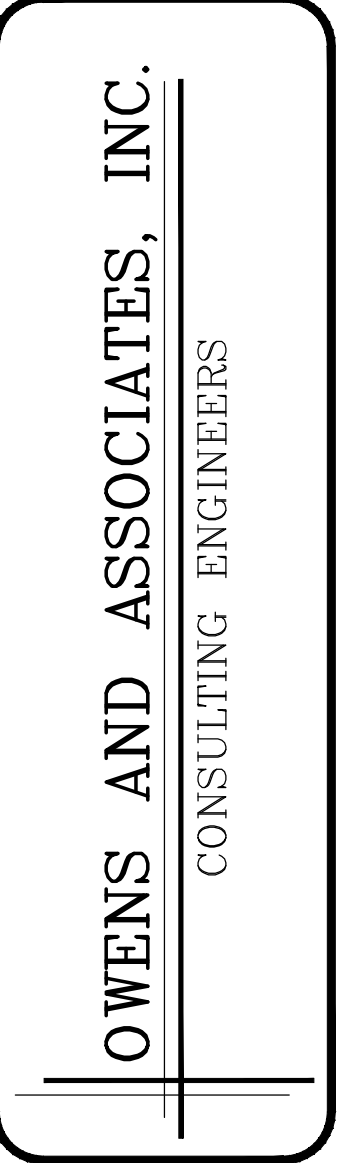
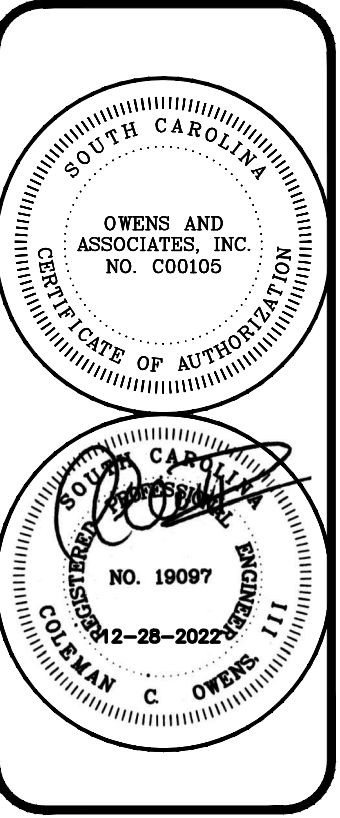


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MECHANICAL AND ELECTRICAL FIELD HOUSE PLAN-ALTERNATE #2
SCALE: 1/8"=1'-0"

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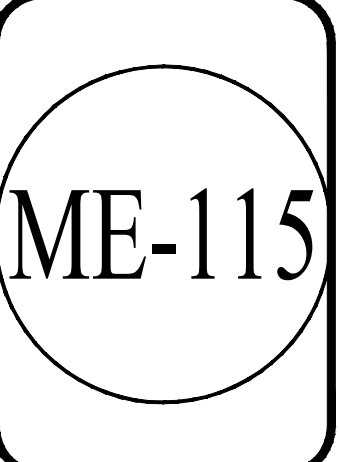


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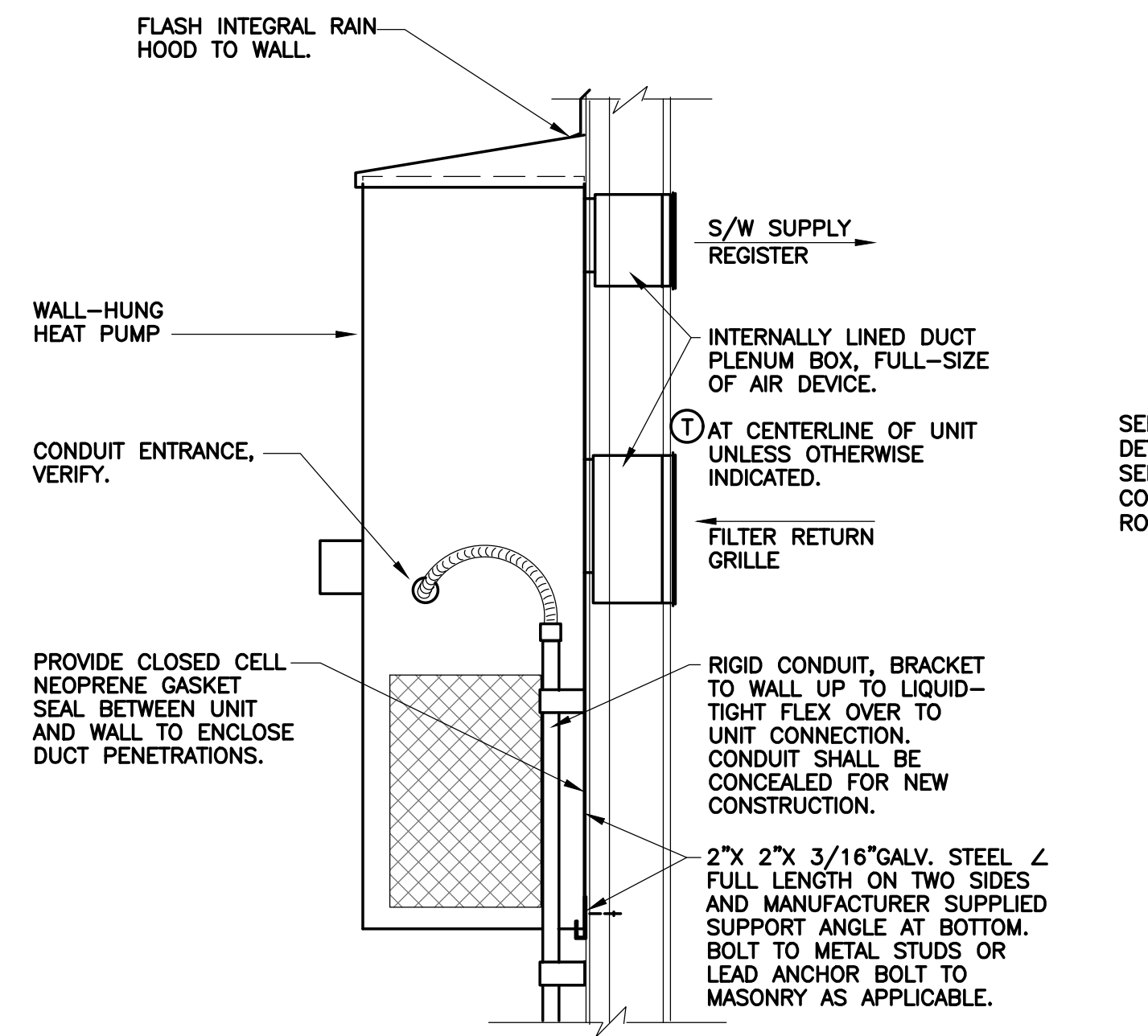
project:
MECHANICAL RENOVATIONS TO MYRTLE BEACH HIGH SCHOOL

REVISIONS

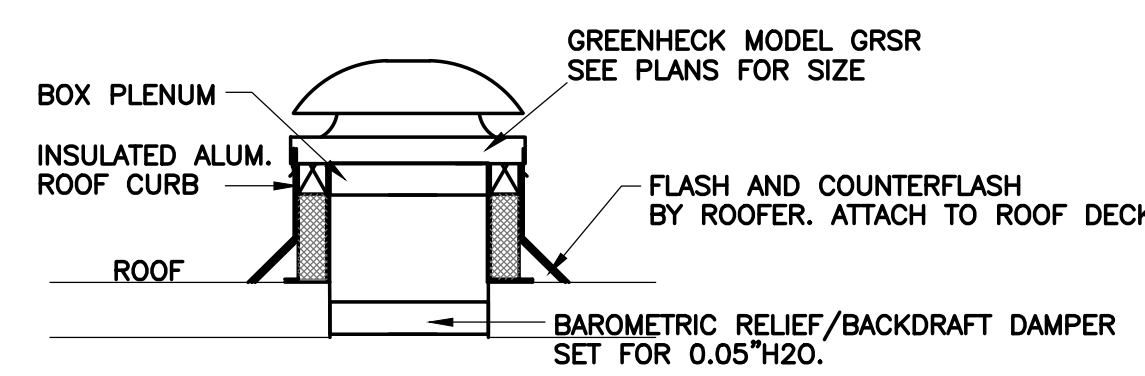
project: 2126
date: 12-28-2022



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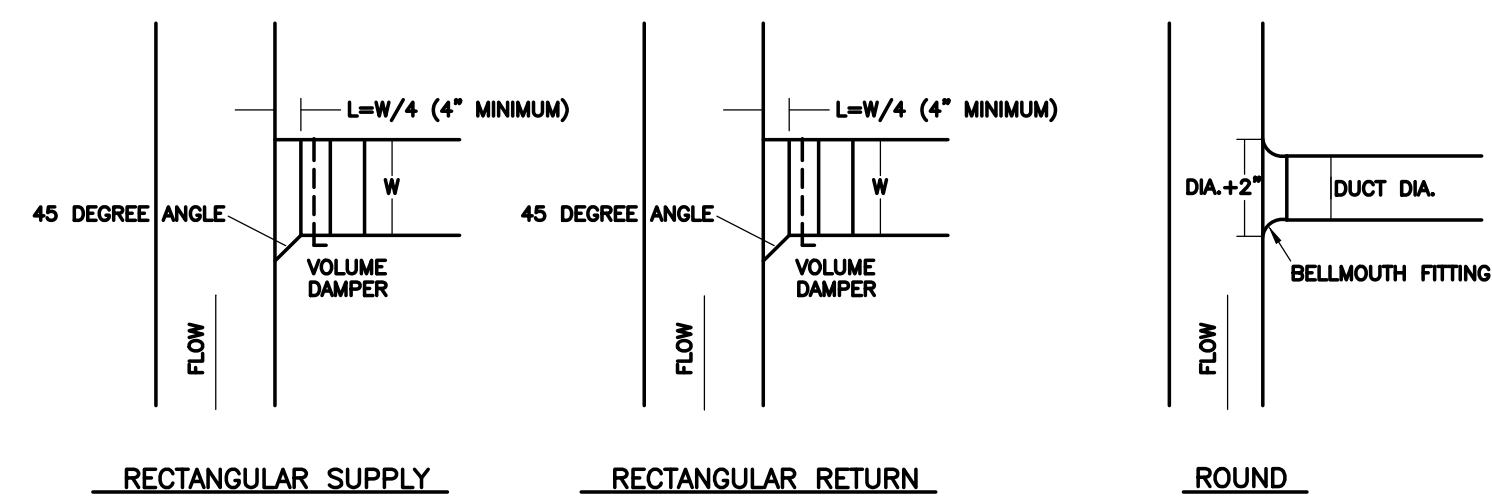
WALL HUNG HEAT PUMP INSTALLATION DETAIL



ROOFTOP RELIEF AIR CAP

FLEXIBLE SUPPLY RUNOUT SCHEDULE		
INSIDE DIAMETER	AIR DEVICE CFM RANGE	REMARKS
6" DIA.	UP TO 125 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
9" DIA.	UP TO 275 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
12" DIA.	UP TO 500 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
15" DIA.	UP TO 700 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH
18" DIA.	UP TO 1200 CFM	SEE SPECS FOR MAXIMUM ALLOWABLE LENGTH

NOTE-ALL FLEXIBLE DUCT SHALL BE ACOUSTIC TYPE FLEXMASTER 8M. SEE SPECIFICATIONS.

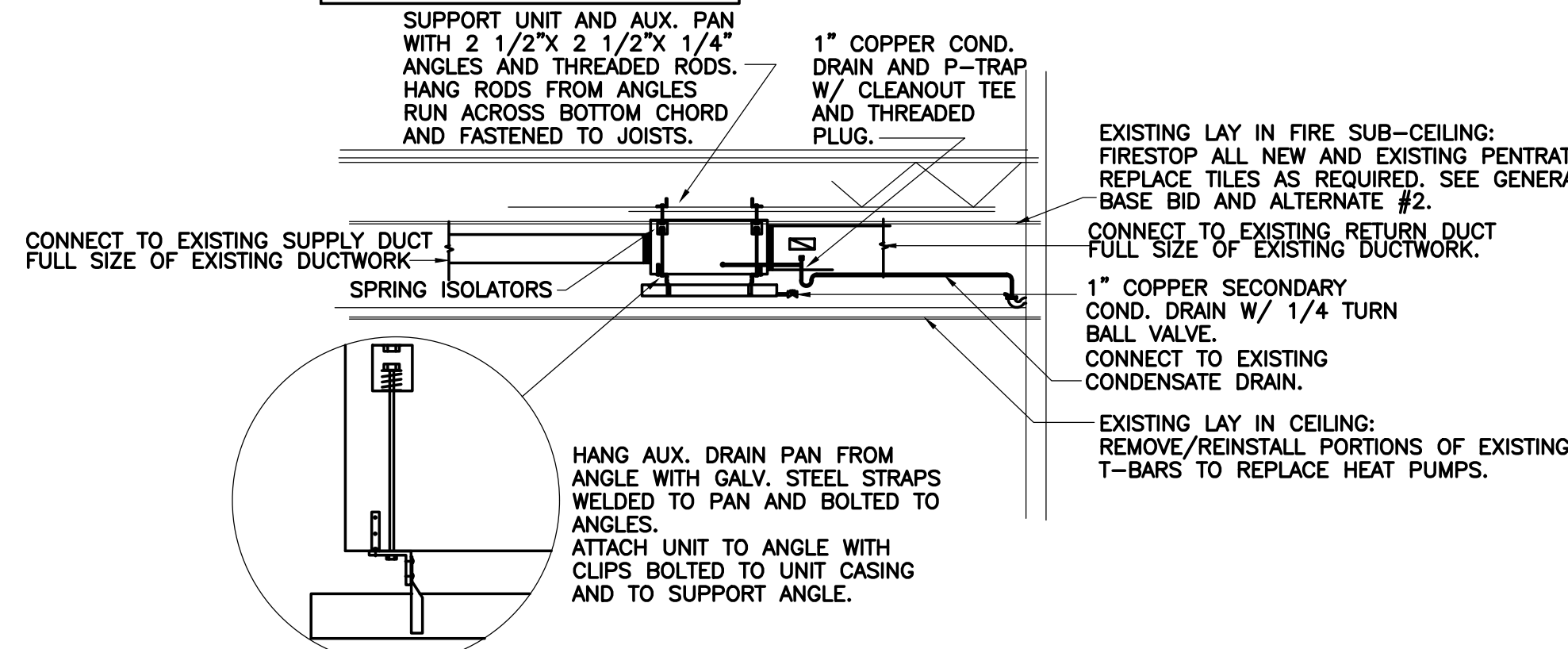


DUCT BRANCH FITTING DETAIL

NO SCALE

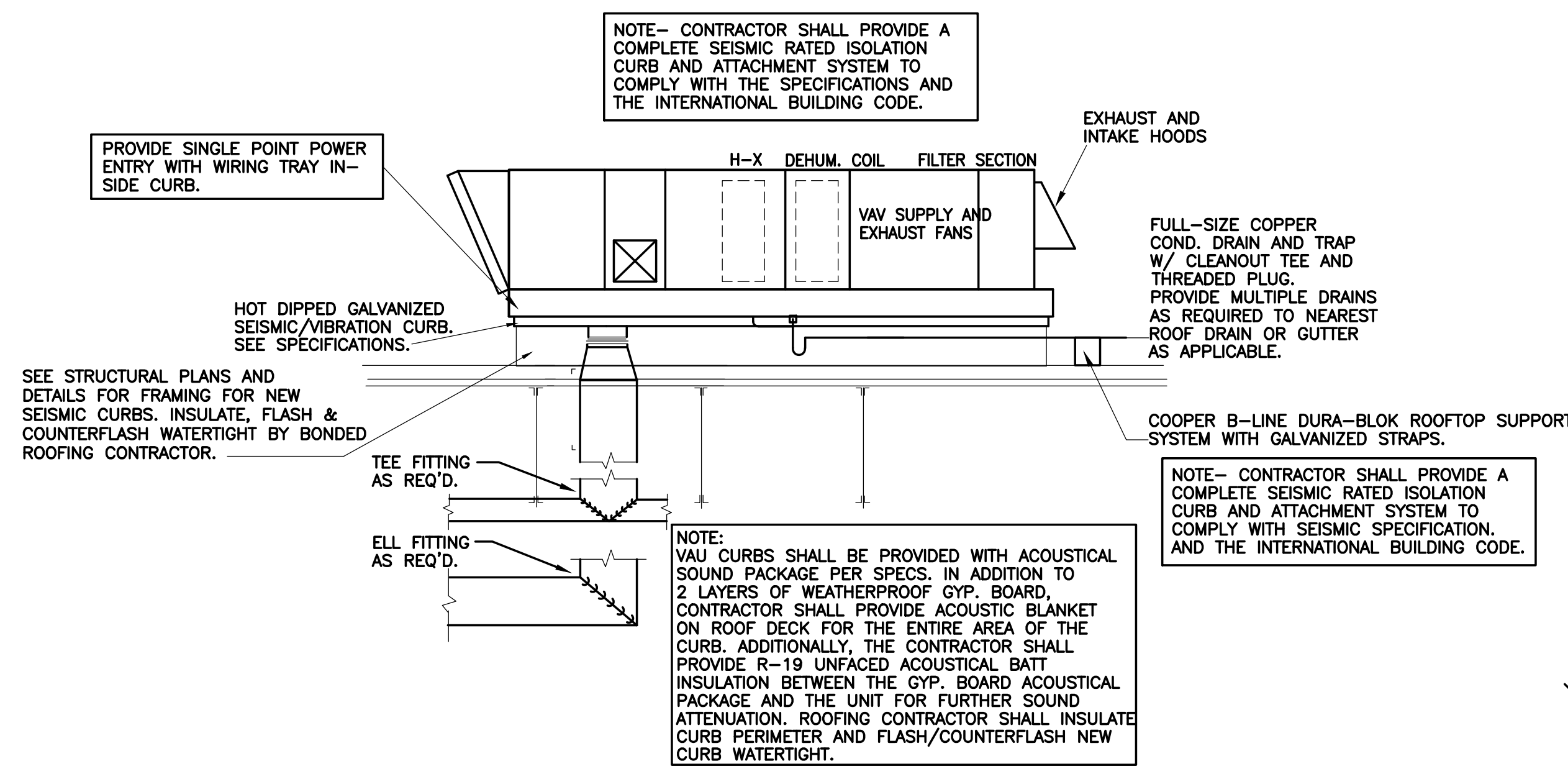
SEISMIC REQUIREMENTS- PROVIDE FOUR CABLES TO JOISTS AT 45 DEGREE ANGLES TO PROVIDE LATERAL RESTRAINTS IN ACCORDANCE WITH THE INTL. BUILDING CODE REQUIREMENTS.

NOTE: ALL EXISTING SPLIT SYSTEM HEAT PUMPS ARE EQUIPPED WITH GPS-DM48 AIR PURIFIERS. EXISTING PURIFIERS ARE TO REMAIN AND SHALL BE RECONNECTED TO NEW HEAT PUMPS, TYP.



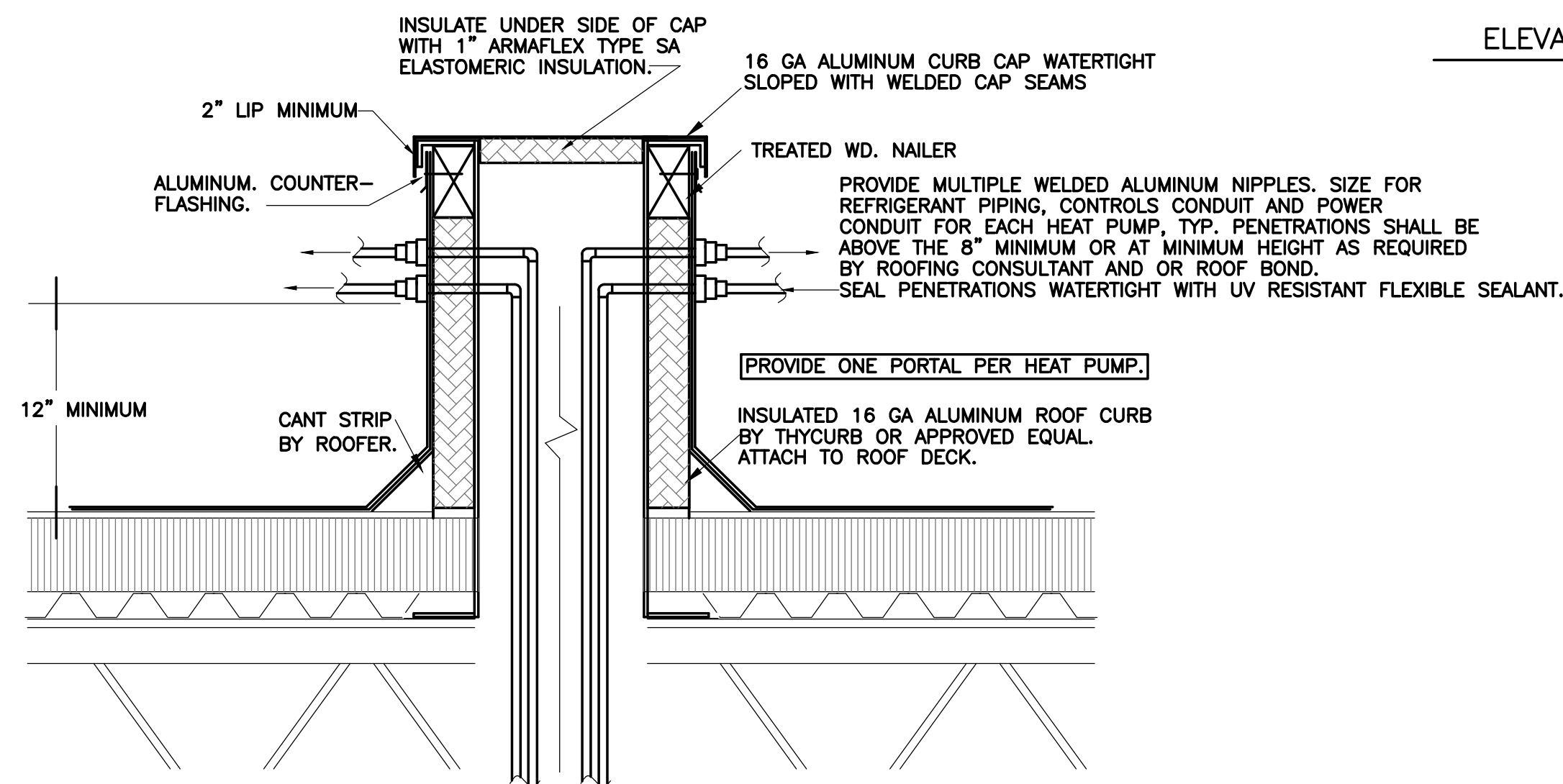
AIR TO AIR HEAT PUMP INDOOR UNIT DETAIL

NO SCALE



ROOFTOP VENTILATION AIR UNIT DETAIL (VAU-13 & VAU-14)

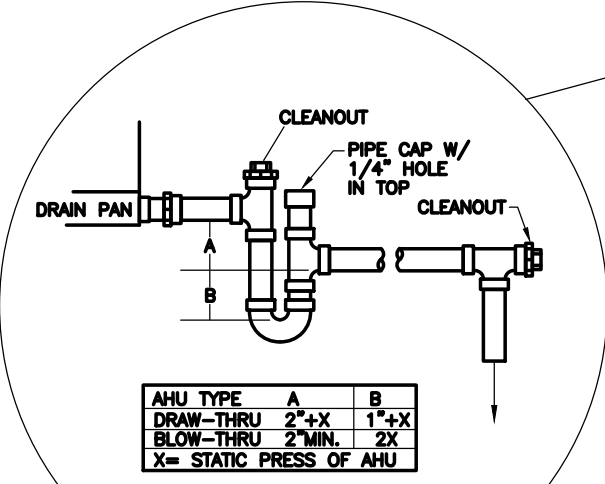
NO SCALE



PIPE PORTAL DETAIL

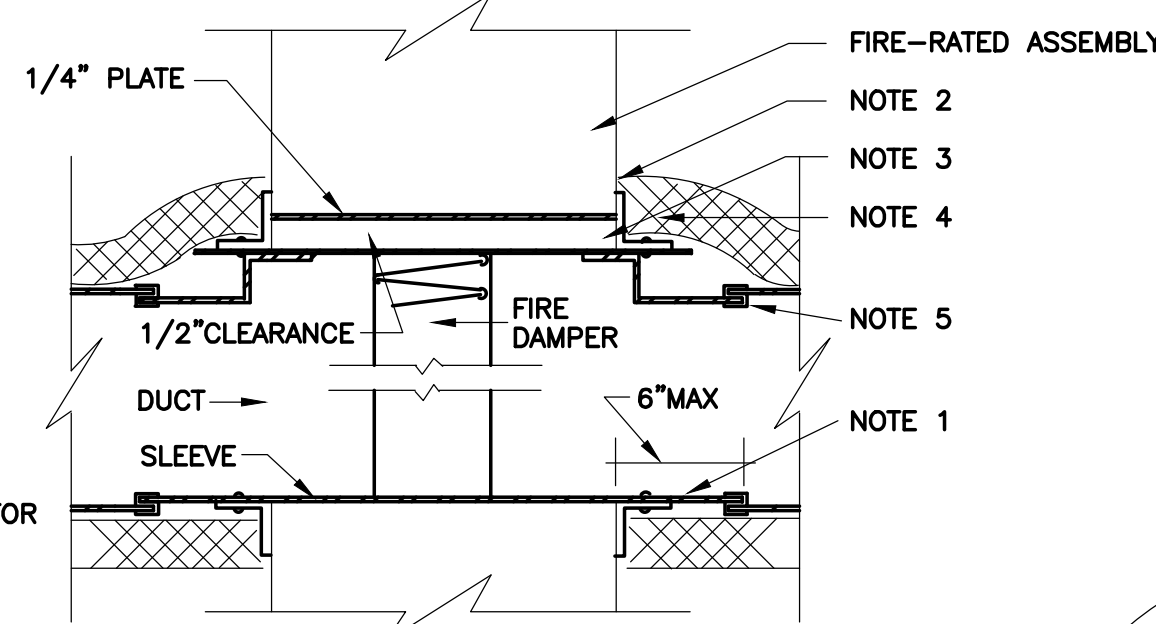
NO SCALE

NOTE- CONTRACTOR SHALL PROVIDE SEISMIC RATED CURB ADAPTORS FOR ALL ROOFTOP UNITS SCHEDULED FOR REPLACEMENT. CURB ADAPTORS SHALL BE SLOPED TO POSITIVELY DRAIN WATER, HOT DIPPED GALVANIZED AFTER WELDING, INSULATED AND SEALED WATERTIGHT. FIELD VERIFY EXISTING CURB DIMENSIONS AND DUCT CONFIGURATIONS PRIOR TO FABRICATION.



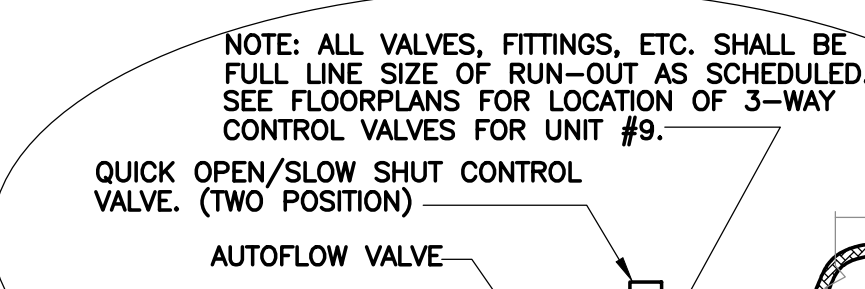
ROOFTOP UNIT INSTALLATION DETAIL WITH CURB ADAPTORS

NO SCALE



FIRE RATED ASSEMBLY DUCT PENETRATION

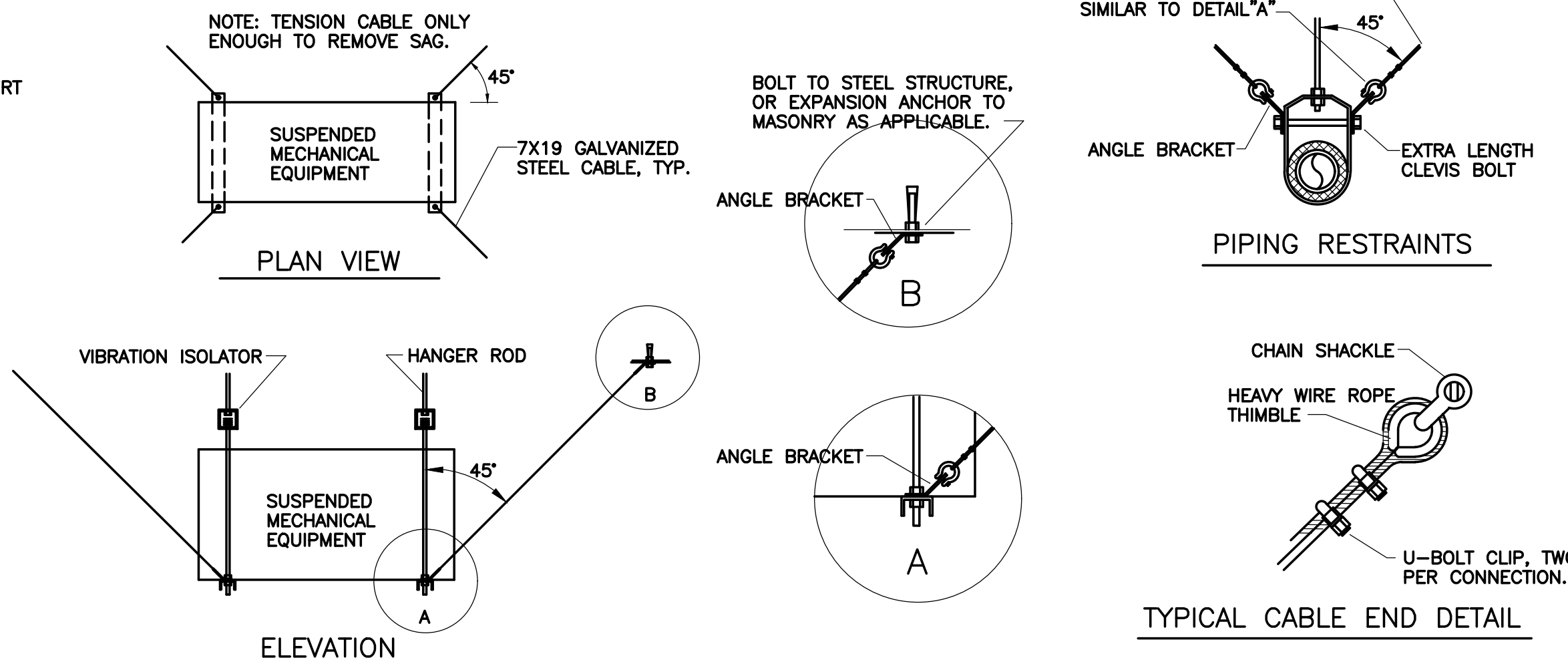
NO SCALE



MECHANICAL SCHEDULES AND DETAILS

NO SCALE

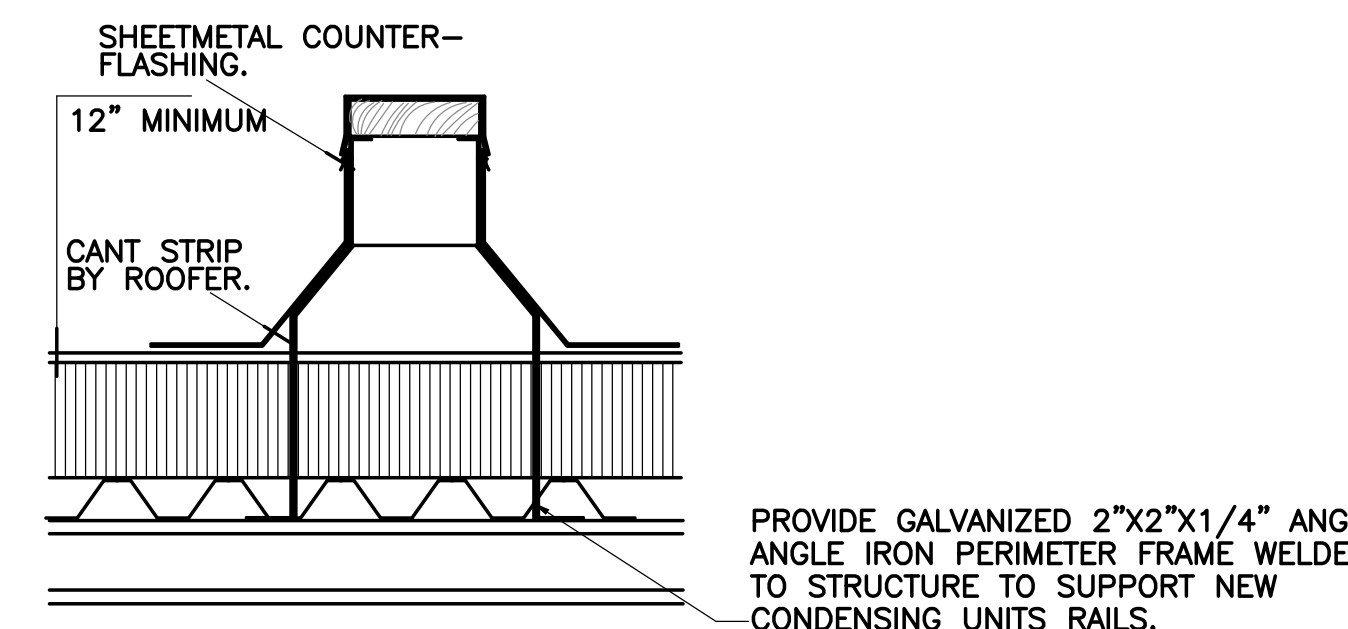
- NO SCALE
1. SEISMIC RESTRAINTS SHALL BE PROVIDED ON ALL SUSPENDED MECHANICAL EQUIPMENT.
 2. SEISMIC RESTRAINTS SHALL BE PROVIDED ON ALL PIPING 1-1/4" AND LARGER IN MECHANICAL ROOMS AND ALL PIPING 2-1/2" AND LARGER ELSEWHERE.
 3. SEISMIC RESTRAINTS SHALL BE PROVIDED ON ALL RECTANGULAR DUCTWORK 6 SF CROSS-SECTIONAL AREA AND LARGER AND ALL ROUND DUCTS 28" DIAMETER AND LARGER.
 4. DUCT AND PIPE RESTRAINTS SHALL BE INSTALLED AT EACH HANGER AND AT EACH CHANGE OF DIRECTION. DUCT RESTRAINTS SHALL BE SIMILAR TO PIPE RESTRAINTS. SEE DETAIL.
 5. ALL LAY-IN GRILLES, DIFFUSERS, OR EQUIPMENT SUPPORTED AT THE LAY-IN CEILING SHALL BE PROVIDED WITH FOUR - 12 GAUGE SUPPORT WIRES TIED INDEPENDENTLY TO THE STRUCTURE AND CEILING CLIPS PER ASTM E-580-91 REQUIREMENTS.
 6. ALL BOLTED SEISMIC CONNECTIONS SHALL HAVE LOCK NUTS.



MECHANICAL SYSTEM SEISMIC RESTRAINTS

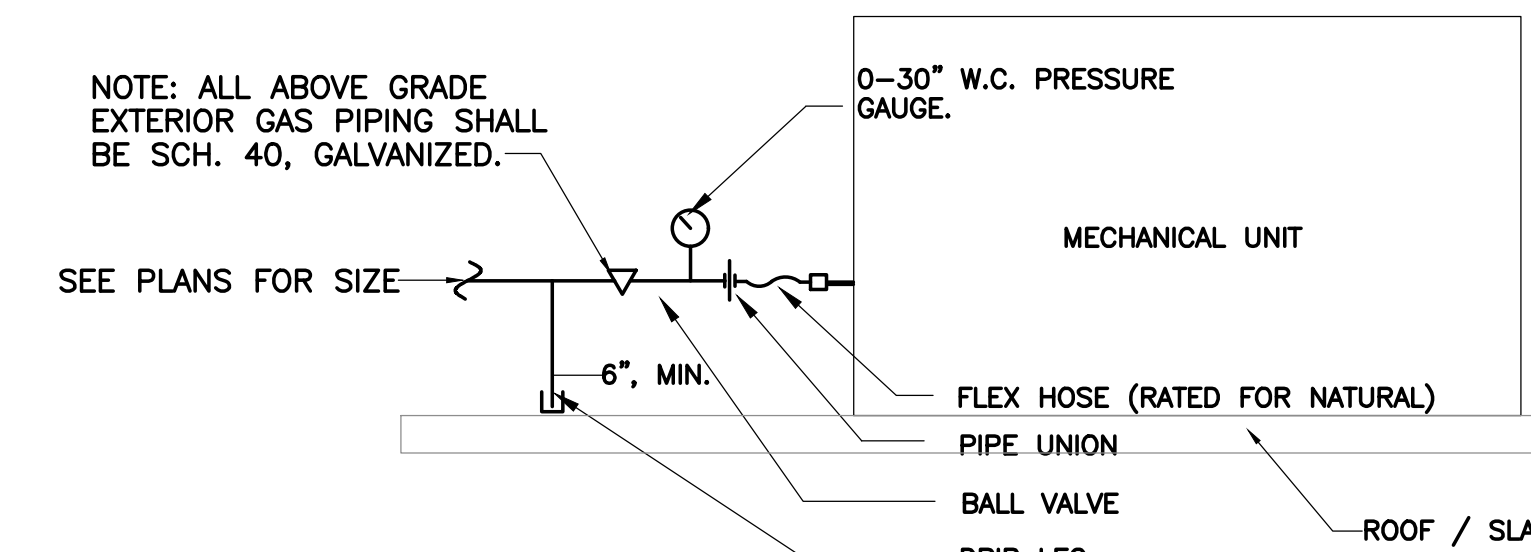
NO SCALE

EQUIPMENT RAIL BY SEISMIC EQUIPMENT SUPPLIER. PROVIDE TWO (2) RAILS PER HEAT PUMP UNIT. SIZE RAILS PER MANUFACTURER'S INFORMATION.



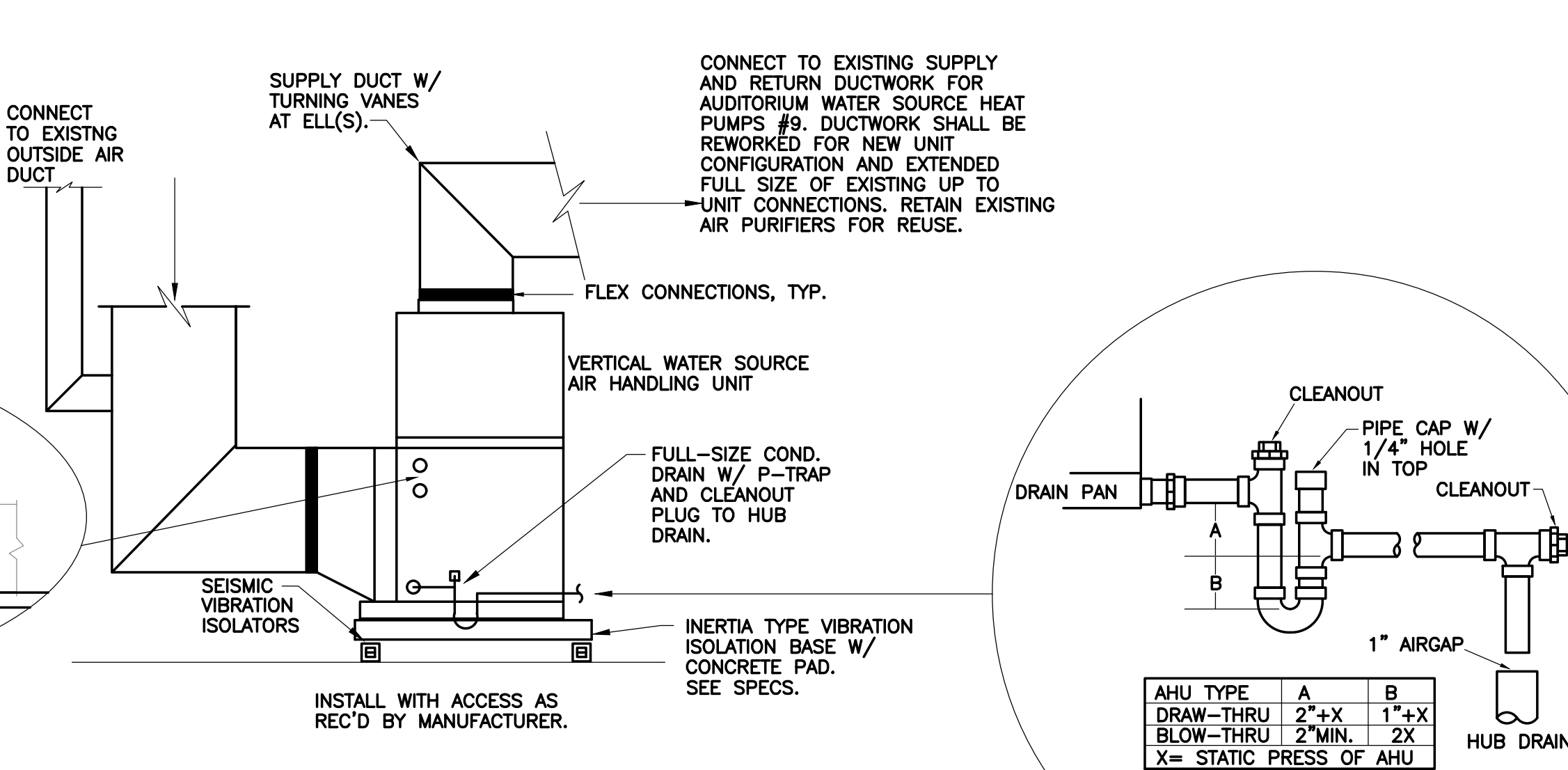
EQUIPMENT RAIL DETAIL

NO SCALE



MECHANICAL UNIT GAS PIPING DETAIL

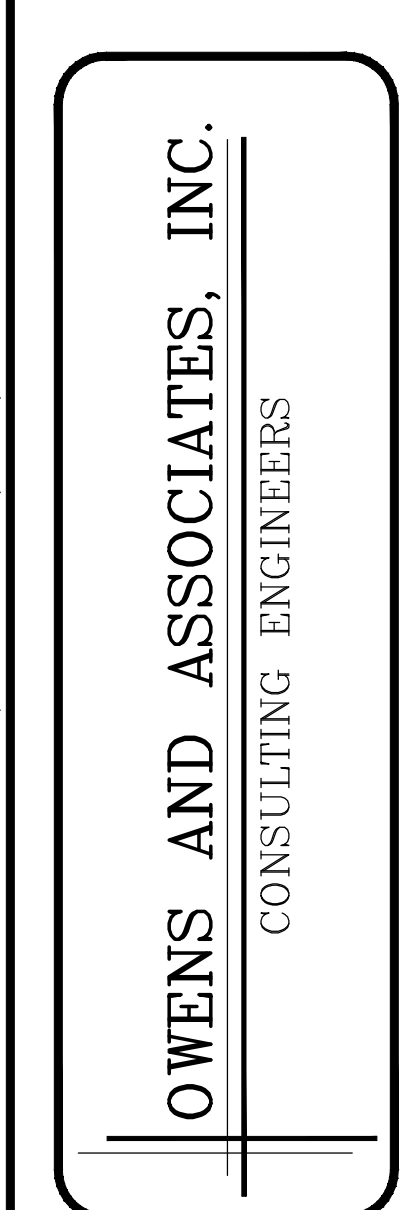
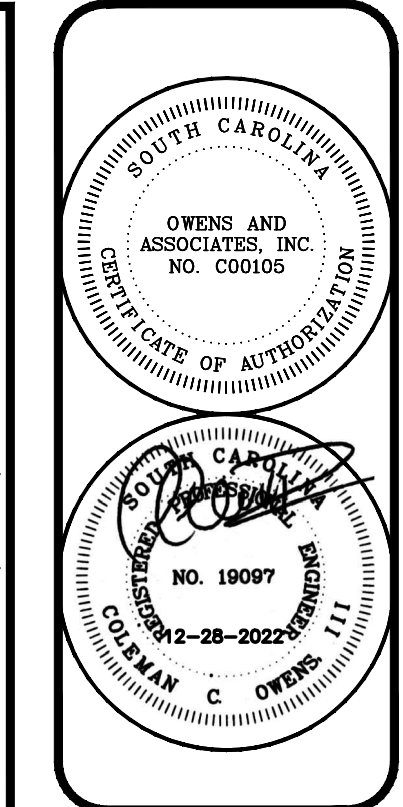
NO SCALE



VERTICAL WSPH #9 DETAIL

NO SCALE

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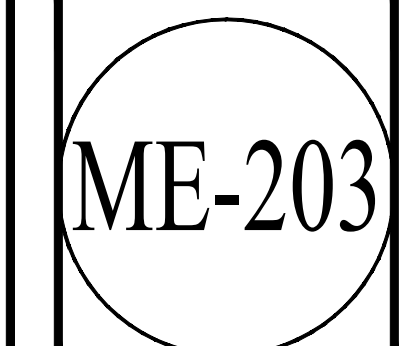


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Mt. Pleasant, South Carolina

project:
MECHANICAL RENOVATIONS TO MYRTLE BEACH HIGH SCHOOL

REVISIONS:

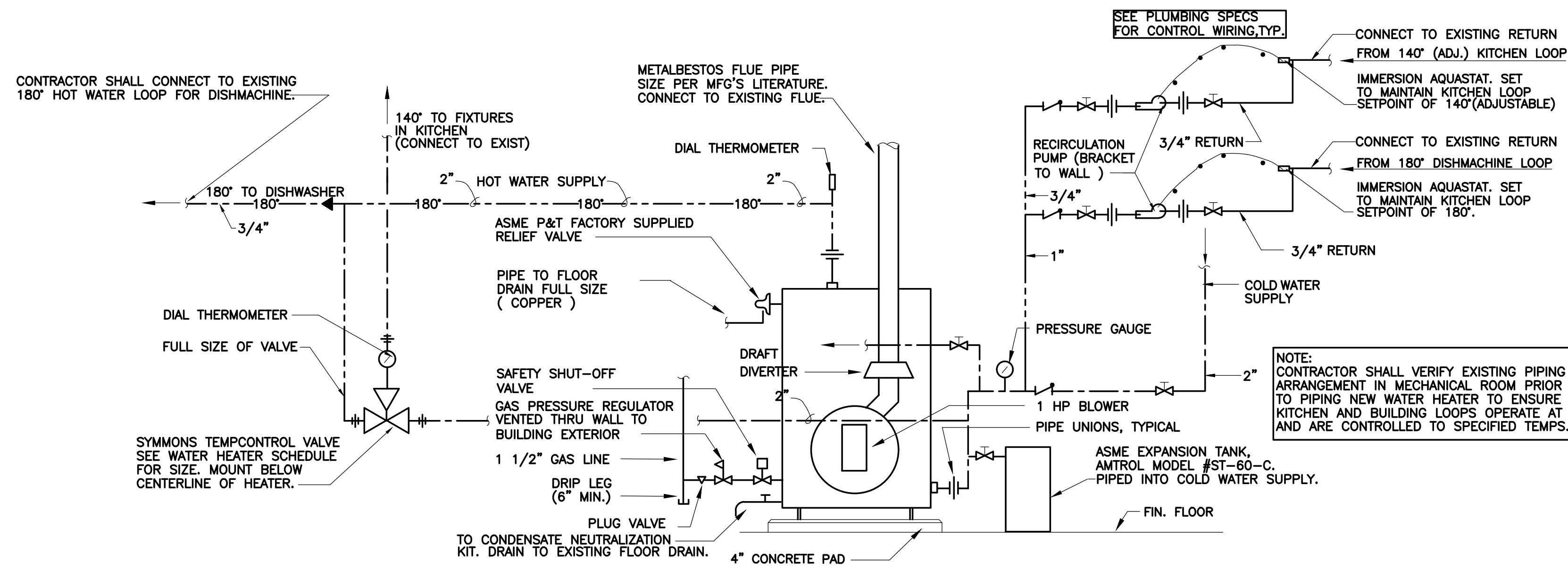
project: 2126
date: 12-28-2022



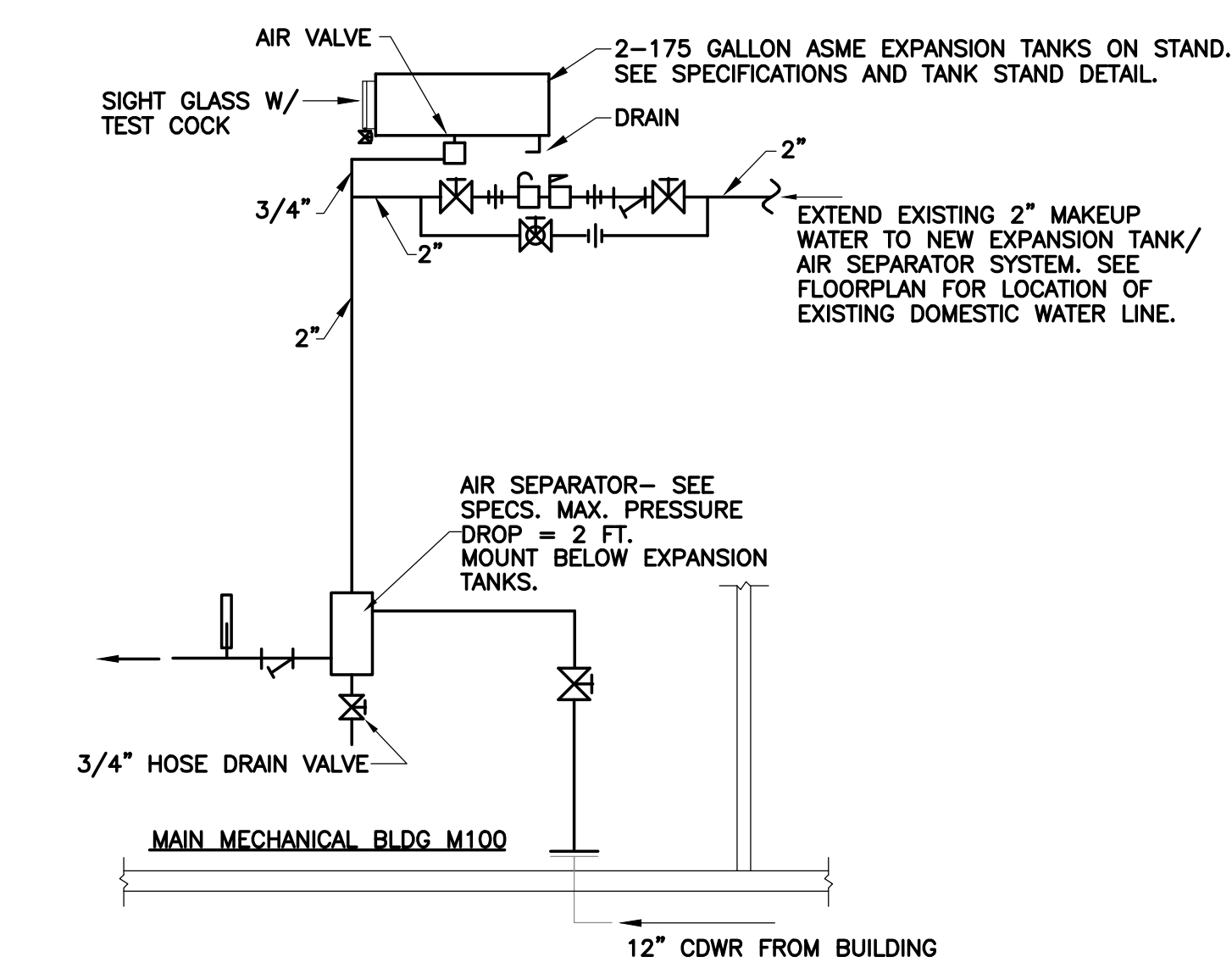
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WATER HEATER SCHEDULE											
HTR. NO.	MODEL NO.	GALLONS	MOUNTING	WATTAGE	VOLTAGE	PHASE	LABEL	GAS	BTU INPUT	CIRCULATOR*	MIXING VALVE**
W.H. #1	IQ-1001	4	CONC. PAD	N/A	120	SINGLE	ASME	N/A	1,001,000	YES	SYMMONS #7-1000A-W***

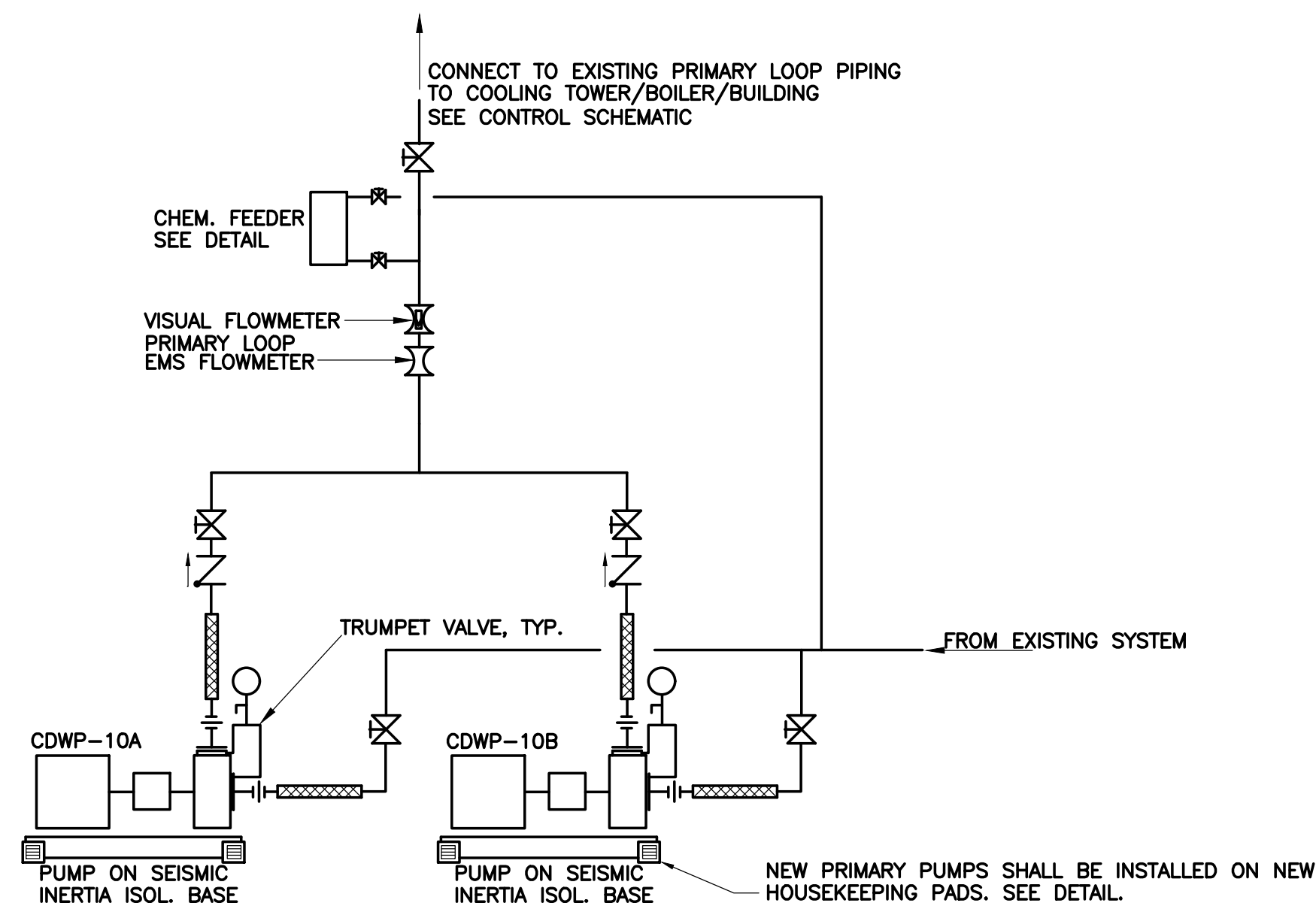
PROVIDE 16 GA. GALV. SHEET METAL PAN WITH DRAIN FOR EACH HEATER.
 PROVIDE 3/4" COPPER DRAIN TO EXTERIOR OR FLOOR DRAIN.
 NOTE: INSTANTANEOUS WATER HEATER SHALL BE AS MANUFACTURED BY INTELLIHOT AS SPECIFIED.
 * - HW CIRCULATOR PUMPS SHALL BE 120V/1PH, AND CAPABLE OF DELIVERING A MINIMUM OF 5 GPM @ 50' HEAD, B&G PL-55B OR EQUAL.
 ** - MIXING VALVES SHALL BE CAPABLE OF TEMPERATURE CONTROL AT 0.5 GPM MINIMUM FLOW RATE WITH RECIRCULATING TEMPERED WATER.
 *** - WH #1 SHALL BE PROVIDED WITH STARTUP BY FACTORY TRAINED PERSONNEL, CONNECT HIGH TEMP WATER TO DISHWASHER LOOP AND PROVIDE SEPARATE MIXING VALVE FOR TEMPERED 140° WATER LOOP TO KITCHEN EQUIPMENT. PROVIDE TWO NEW RECIRCULATION PUMPS. SEE DETAIL. DISHWASHER SHALL BE PIPED DIRECTLY FROM HEATER TO DELIVER 180° WATER. HEATER SHALL BE SET TO DELIVER 180° WATER AT ALL TIMES.



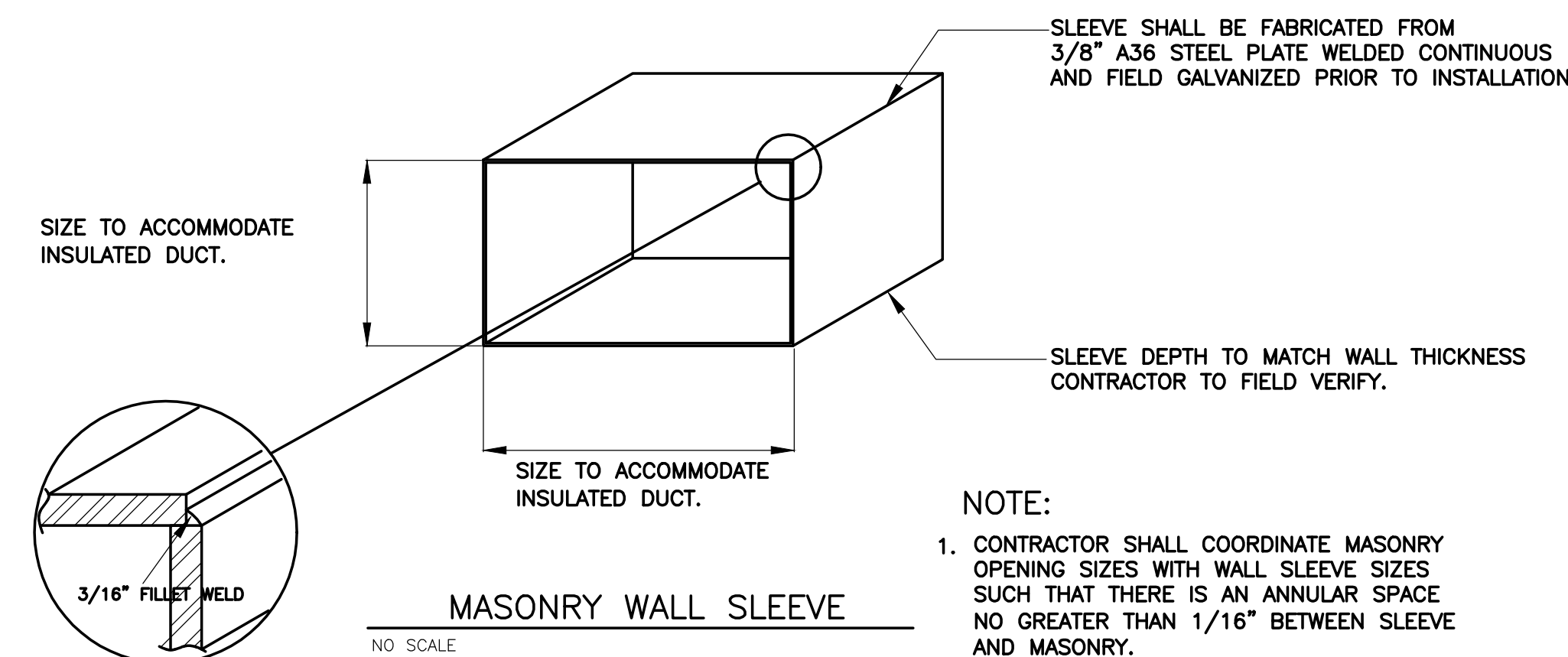
INSTANTANEOUS GAS FIRED DOMESTIC WATER HEATER W.H.#1
NO SCALE



EXPANSION TANK / AIR SEPARATOR DETAIL
NO SCALE



CONDENSER WATER PRIMARY PUMP PIPING DETAIL(P-10A/10B)
NO SCALE

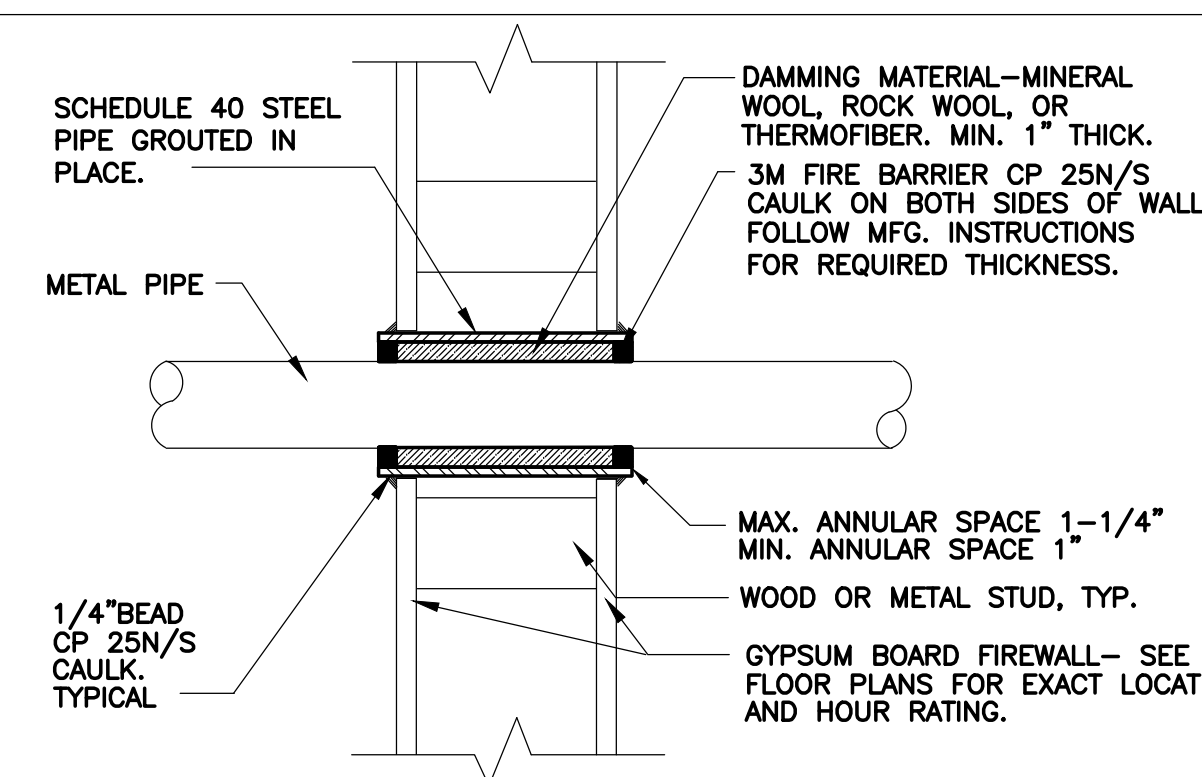


MASONRY WALL SLEEVE
NO SCALE

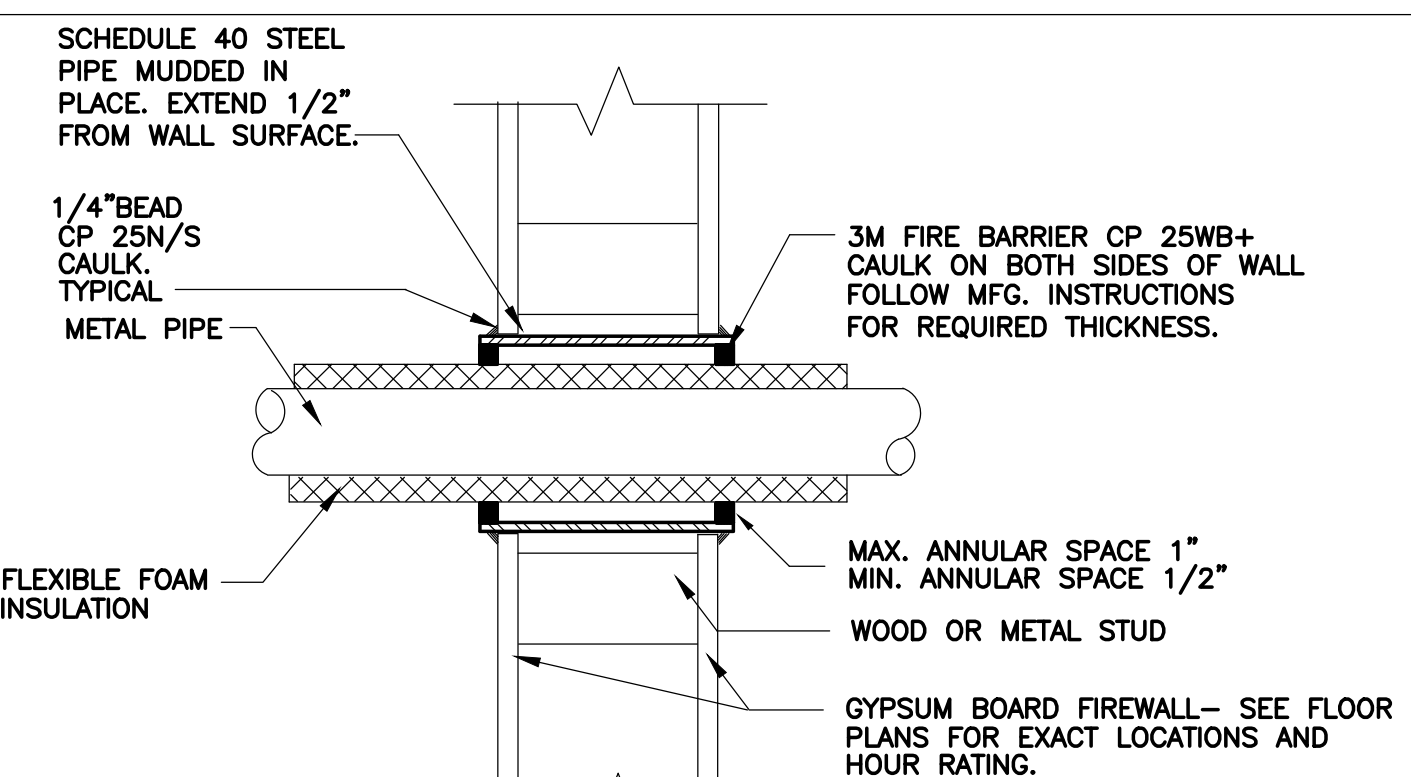
- NOTE:
- CONTRACTOR SHALL COORDINATE MASONRY OPENING SIZES WITH WALL SLEEVE SIZES SUCH THAT THERE IS AN ANNULAR SPACE NO GREATER THAN 1/16" BETWEEN SLEEVE AND MASONRY.
 - GROUT SLEEVE IN PLACE INSIDE AND OUT.
 - SLEEVES ARE REQUIRED FOR ALL DUCT PENETRATIONS THROUGH MASONRY WALLS.
 - MASONRY HOLES SHALL BE "NET CUT", NO EXCEPTIONS. CONTRACTOR SHALL CUT OPENINGS UNDER A POLYETHYLENE BARRICADE TO KEEP MASONRY DUST AT A MINIMUM. CONTRACTOR SHALL USE A "WET VAC" TO CONTAIN CUTTING WATER AND REPAIR ALL "OVERCUTS" TO ORIGINAL CONDITION.

CHEMICAL FEEDER DETAIL
NO SCALE

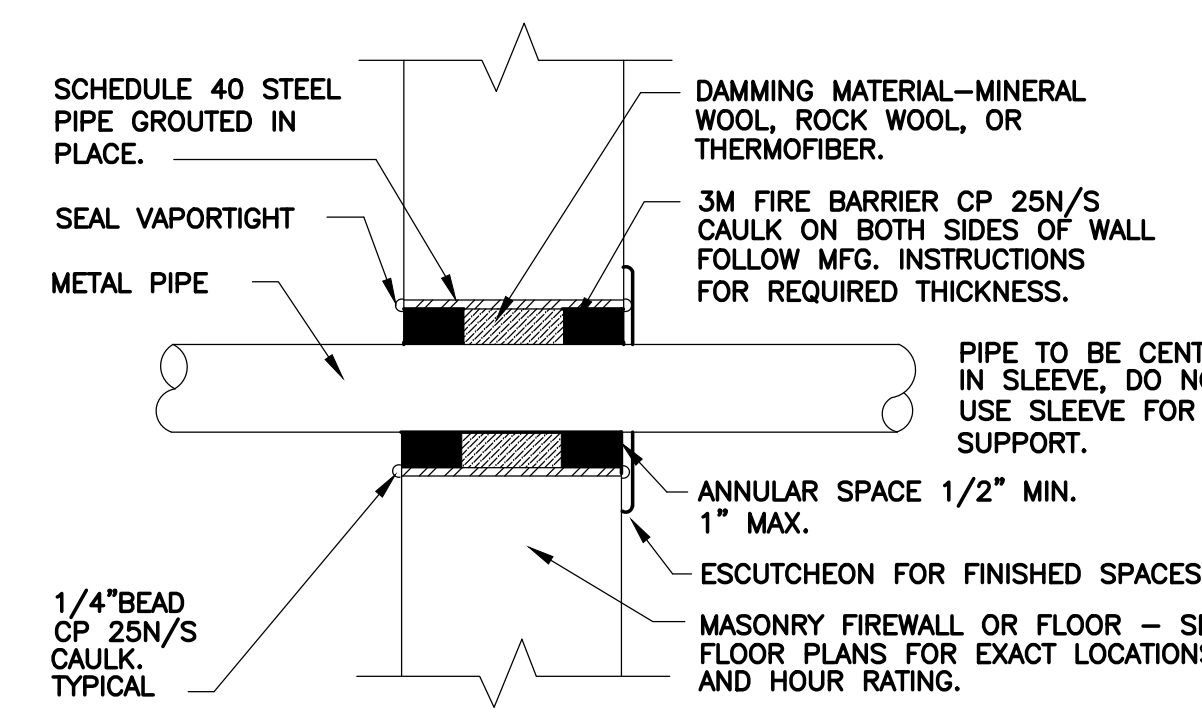
MECHANICAL SCHEDULES AND DETAILS
NO SCALE



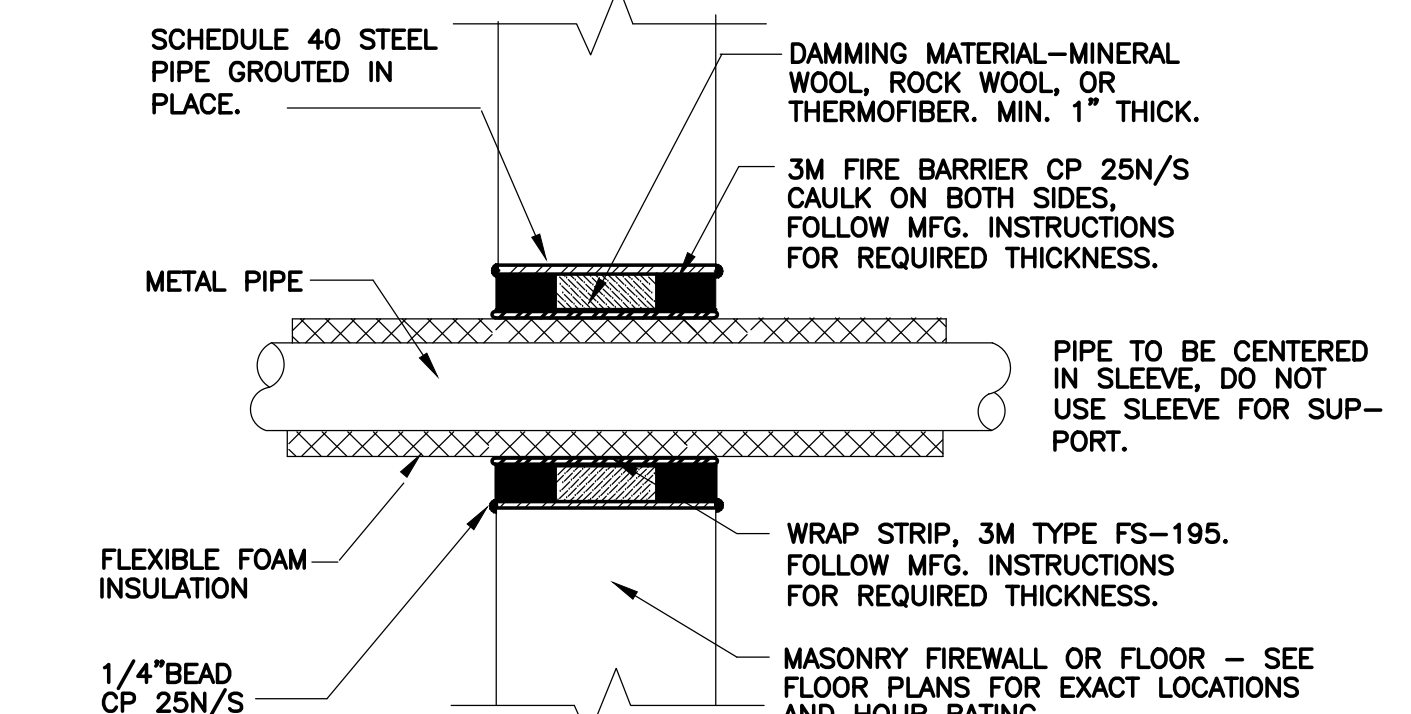
UL SYSTEM #WL-1003
1 OR 2 HOUR



UL SYSTEM #WL-5040
1 OR 2 HOUR

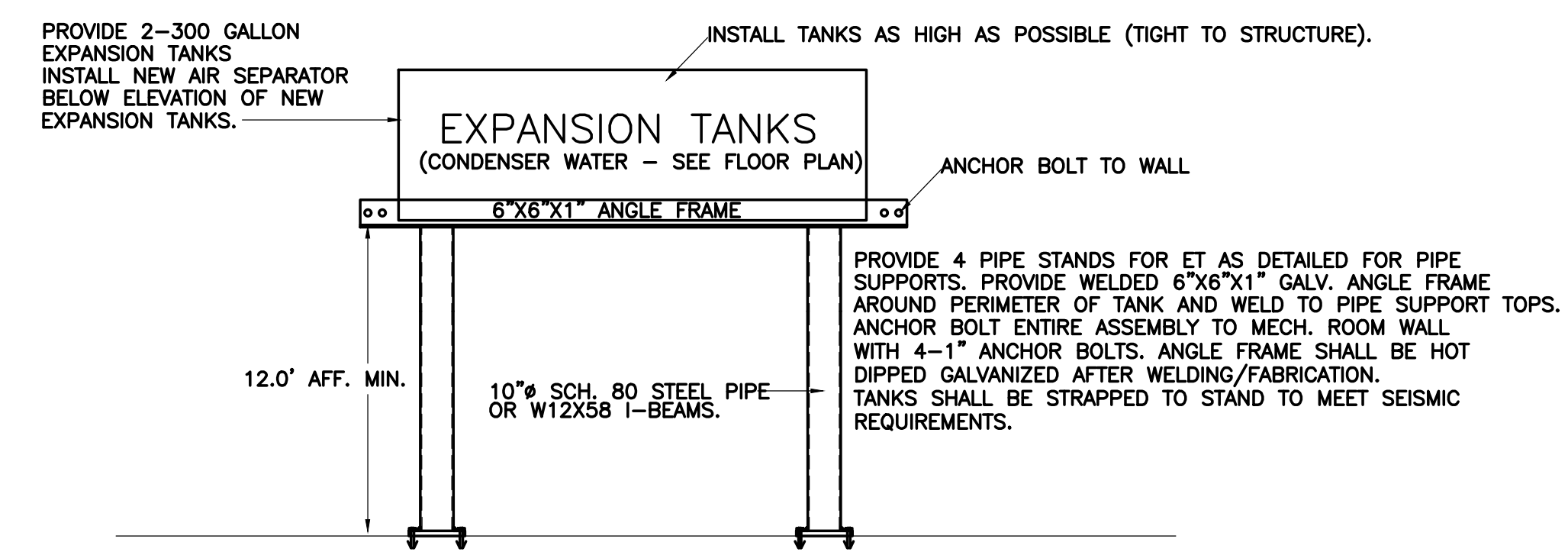


UL SYSTEM #CAJ1001
1, 2 OR 4 HOUR

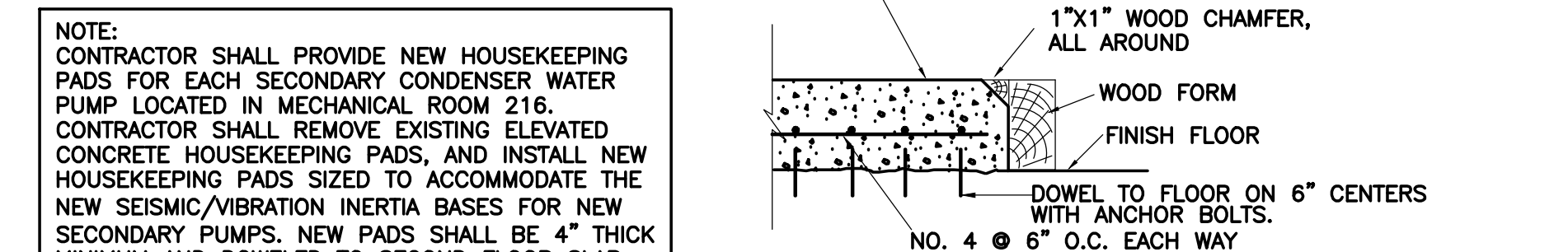


UL SYSTEM #CAJ5017
1, 2 OR 4 HOUR

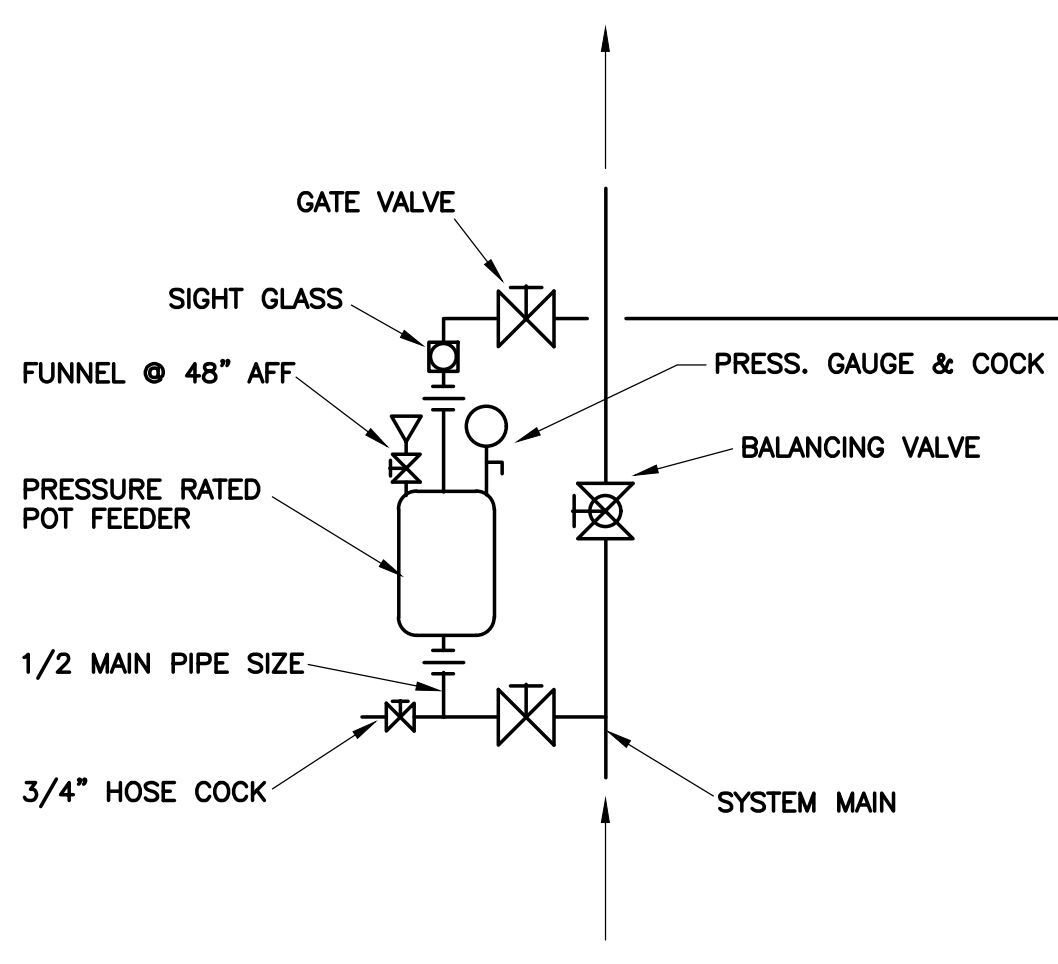
PIPE FIREWALL PENETRATION DETAILS
NO SCALE



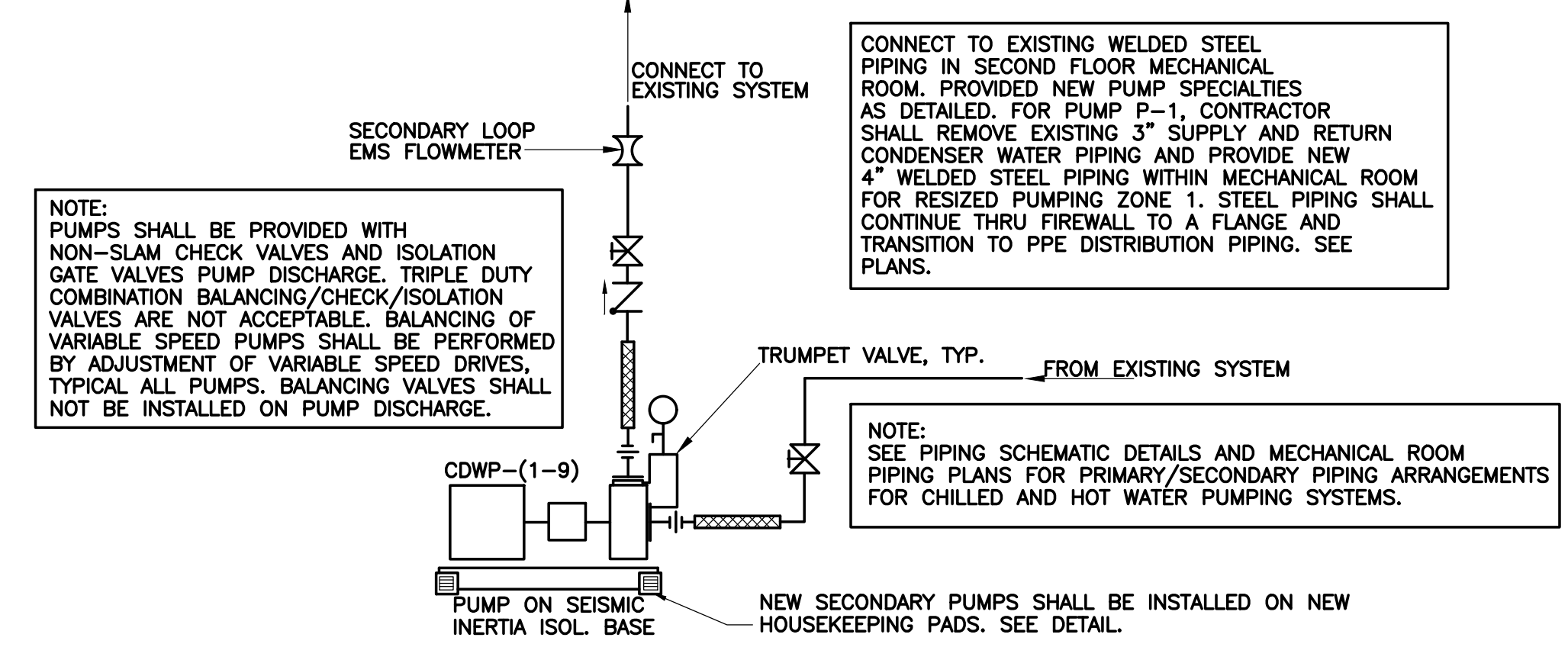
EXPANSION TANK(S) SUPPORT DETAIL
NO SCALE



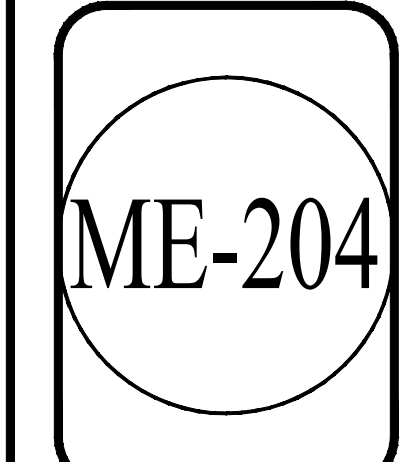
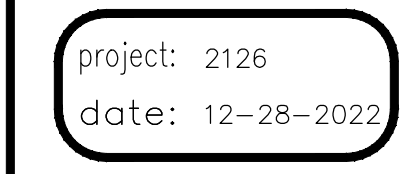
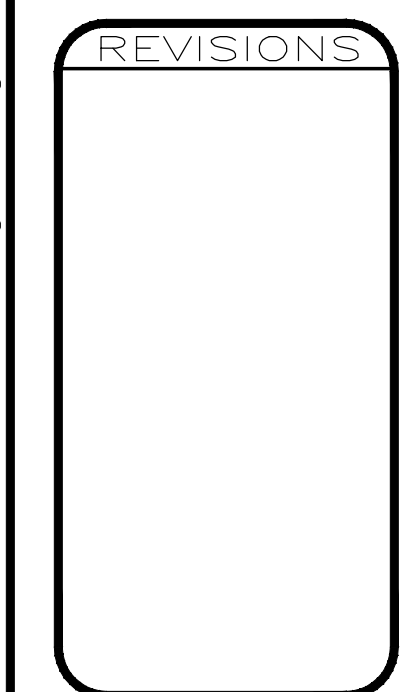
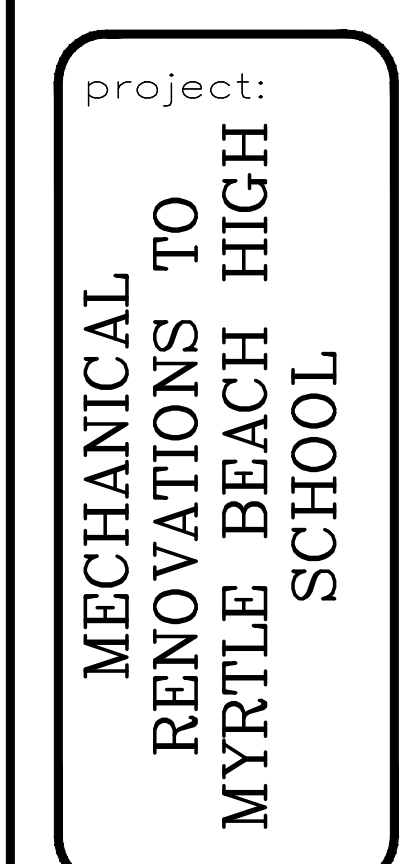
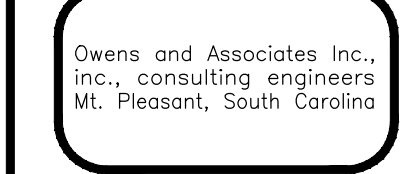
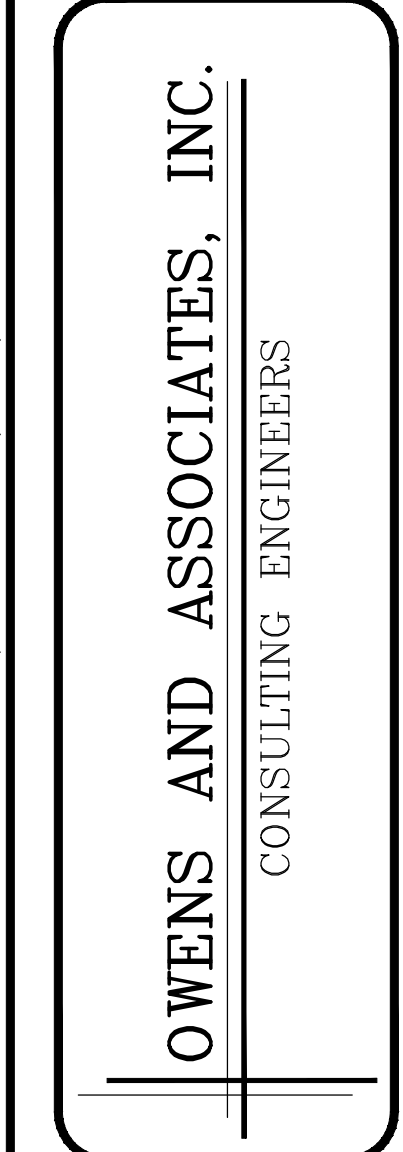
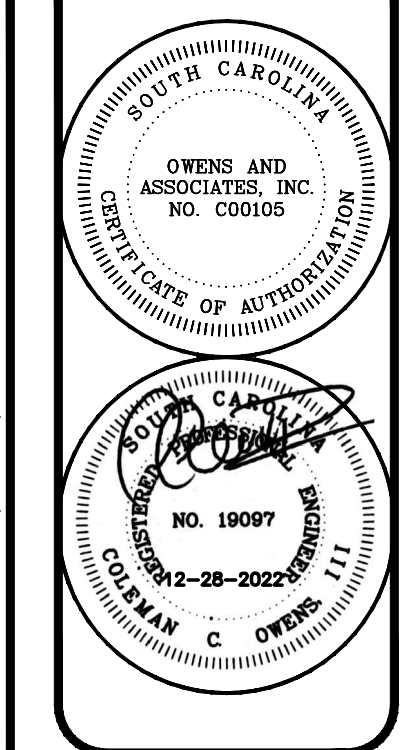
CONCRETE HOUSEKEEPING PAD DETAIL
NO SCALE



CHEMICAL FEEDER DETAIL
NO SCALE



SECONDARY PUMP PIPING DETAIL(P-1 THRU P-9)
NO SCALE



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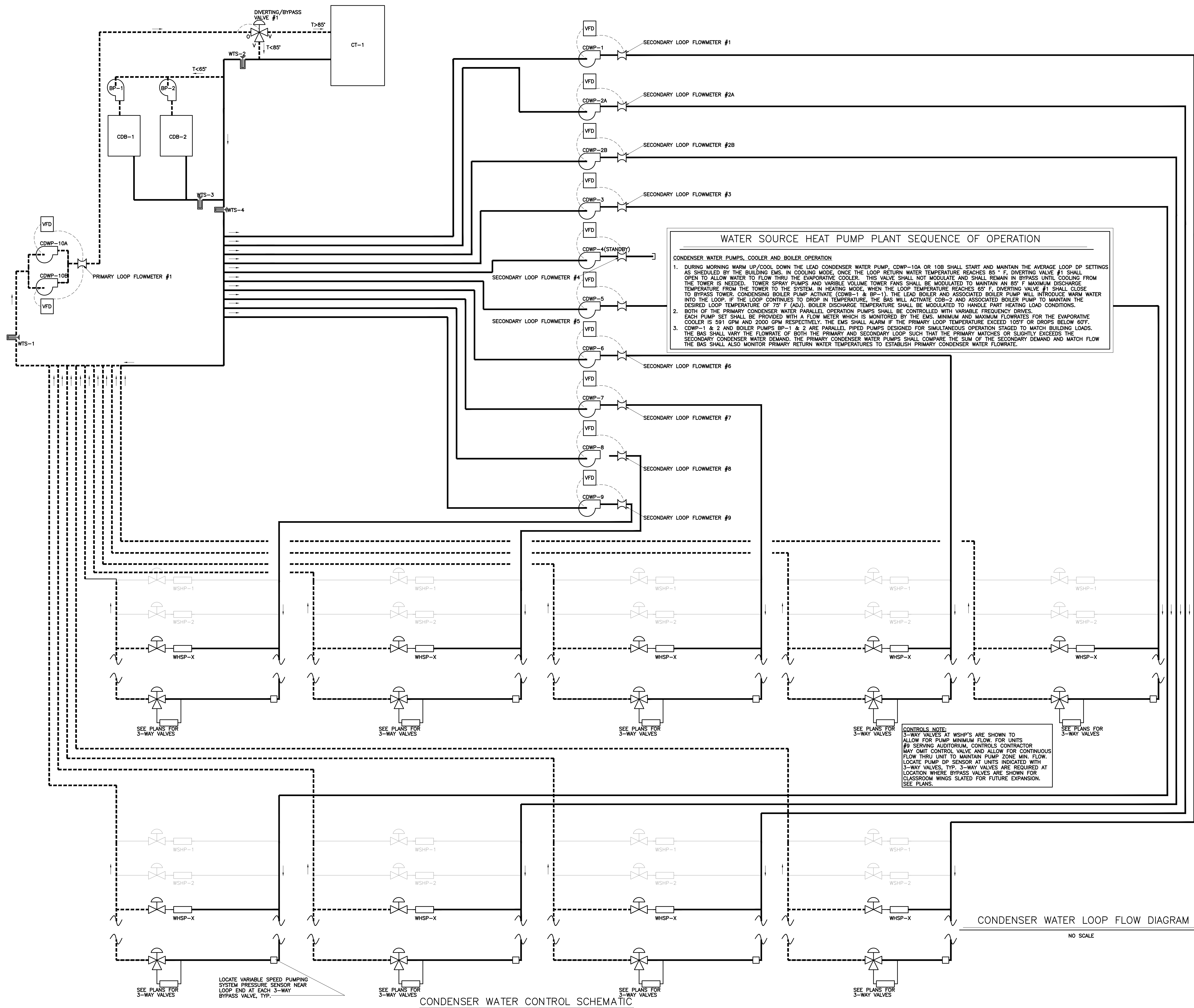
MECHANICAL RENOVATIONS TO MYRTLE BEACH HIGH SCHOOL

REVISIONS

project: 2126
date: 12-28-2022

ME-204

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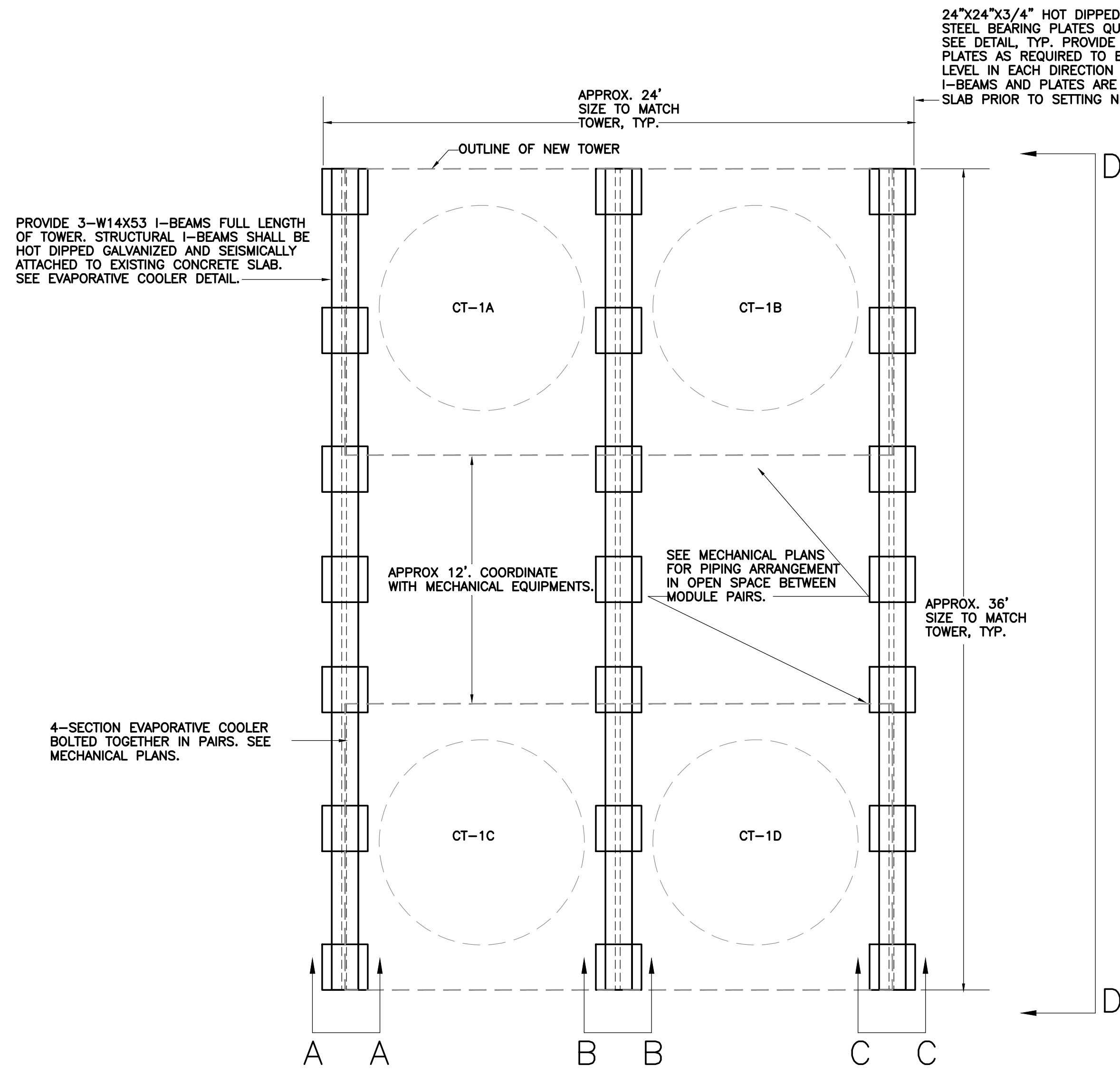
project:
MECHANICAL RENOVATIONS TO MYRTLE BEACH HIGH SCHOOL

REVISIONS

project: 2126
 date: 12-28-2022

ME-205

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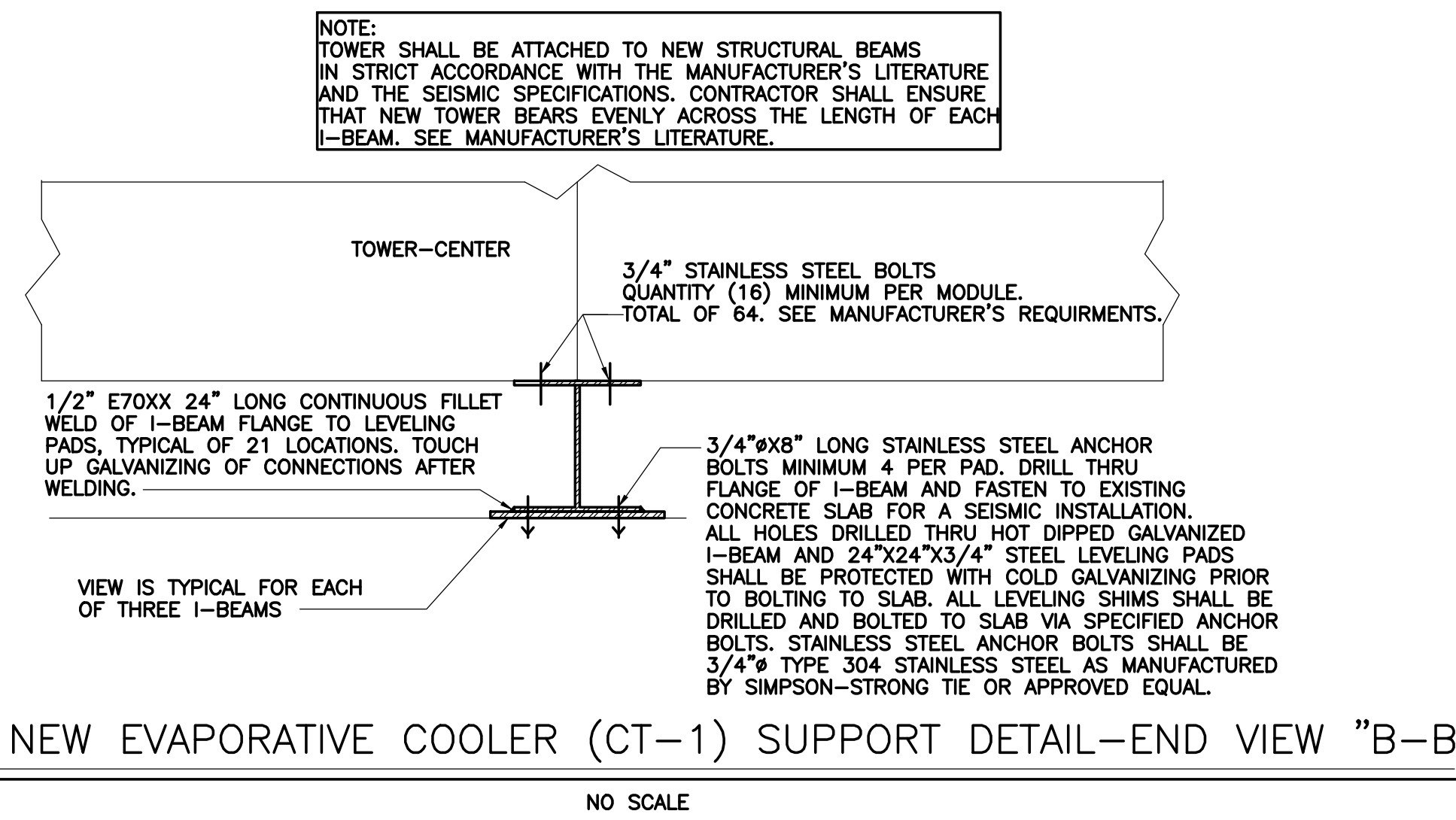


NEW EVAPORATIVE COOLER (CT-1) SUPPORT DETAIL-TOP
NO SCALE

24"x24"x3/4" HOT DIPPED GALVANIZED STEEL BEARING PLATES QUANTITY 7 PER I-BEAM. SEE DETAIL, TYP. PROVIDE MULTIPLE BEARING PLATES AS REQUIRED TO ENSURE TOWER IS LEVEL IN EACH DIRECTION AND THAT STRUCTURAL I-BEAMS AND PLATES ARE IN CONTACT WITH CONCRETE SLAB PRIOR TO SETTING NEW TOWER.

CONTRACTOR SHALL DEMOLISH EXISTING CONCRETE COOLING TOWER SUPPORT PIERS, AND STEEL TO FLUSH WITH EXISTING CONCRETE MECHANICAL YARD SLAB ELEVATION. EXISTING SLAB AND STRUCTURAL FOOTINGS SHALL REMAIN. PROVIDE 3 NEW I-BEAMS WITH SIZES AS NOTED AND DETAILED. PROVIDED GALVANIZED BEARING PLATES SPACED AS DETAILED IN 7' LOCATIONS FOR EACH I-BEAM. CENTER BEARING PLATES AT LOCATIONS OF EXISTING CONCRETE PIERS AS SHOWN. ATTACH SEISMICALLY TO EXISTING SLAB AS DETAILED.

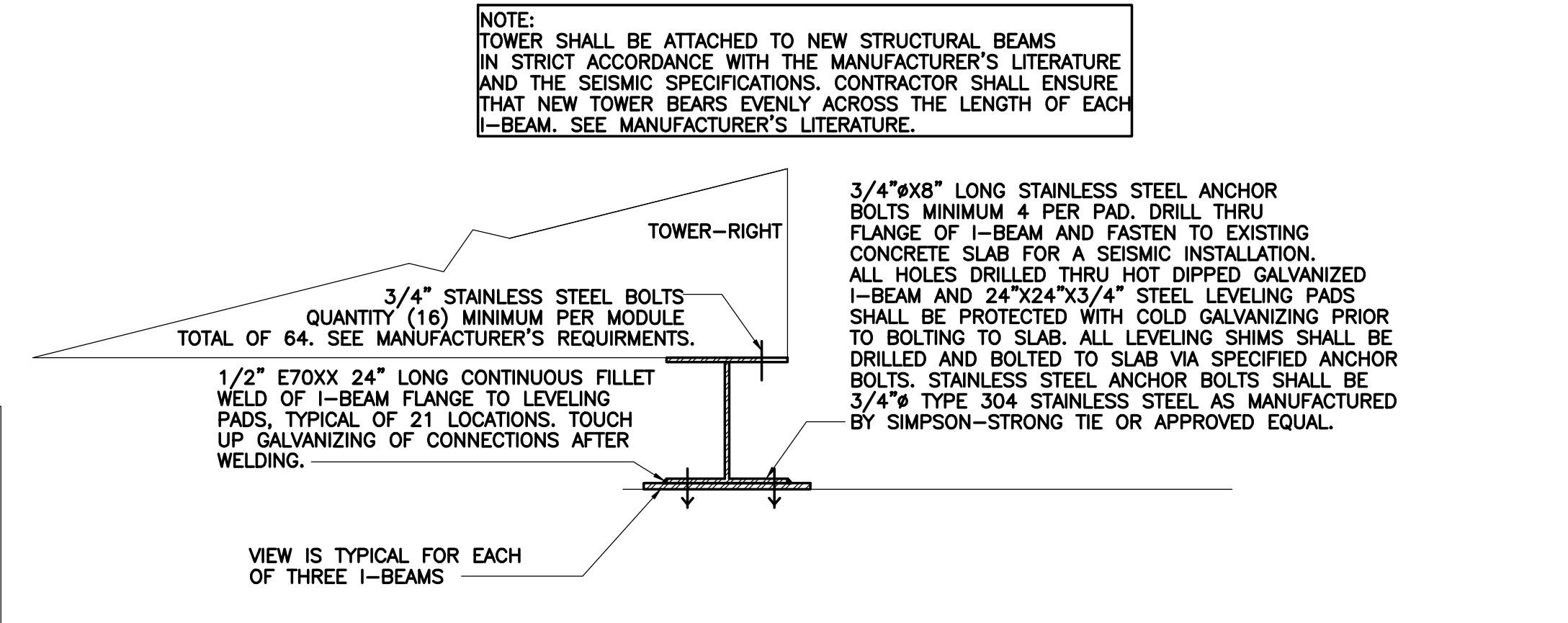
NOTE: EVAPORATIVE COOLING TOWER SUPPORT BEAMS ARE DESIGNED SPECIFICALLY FOR 4-EVAPCO MODEL ESM4-12-48L12-LF-C AS SPECIFIED. TOWERS BOLTED TOGETHER IN PAIRS AND MOUNTED AS SHOWN. ALTERNATE APPROVED TOWERS MAY REQUIRE DIFFERENT CONFIGURATIONS. DIFFERING CONFIGURATIONS OR ADDITIONAL STRUCTURAL SUPPORT REQUIRED BY UTILIZING ALTERNATE APPROVED MECHANICAL EQUIPMENT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. MAXIMUM FOOTPRINT OF THE TOWER(S) IS 24' WIDE BY 36' LONG.



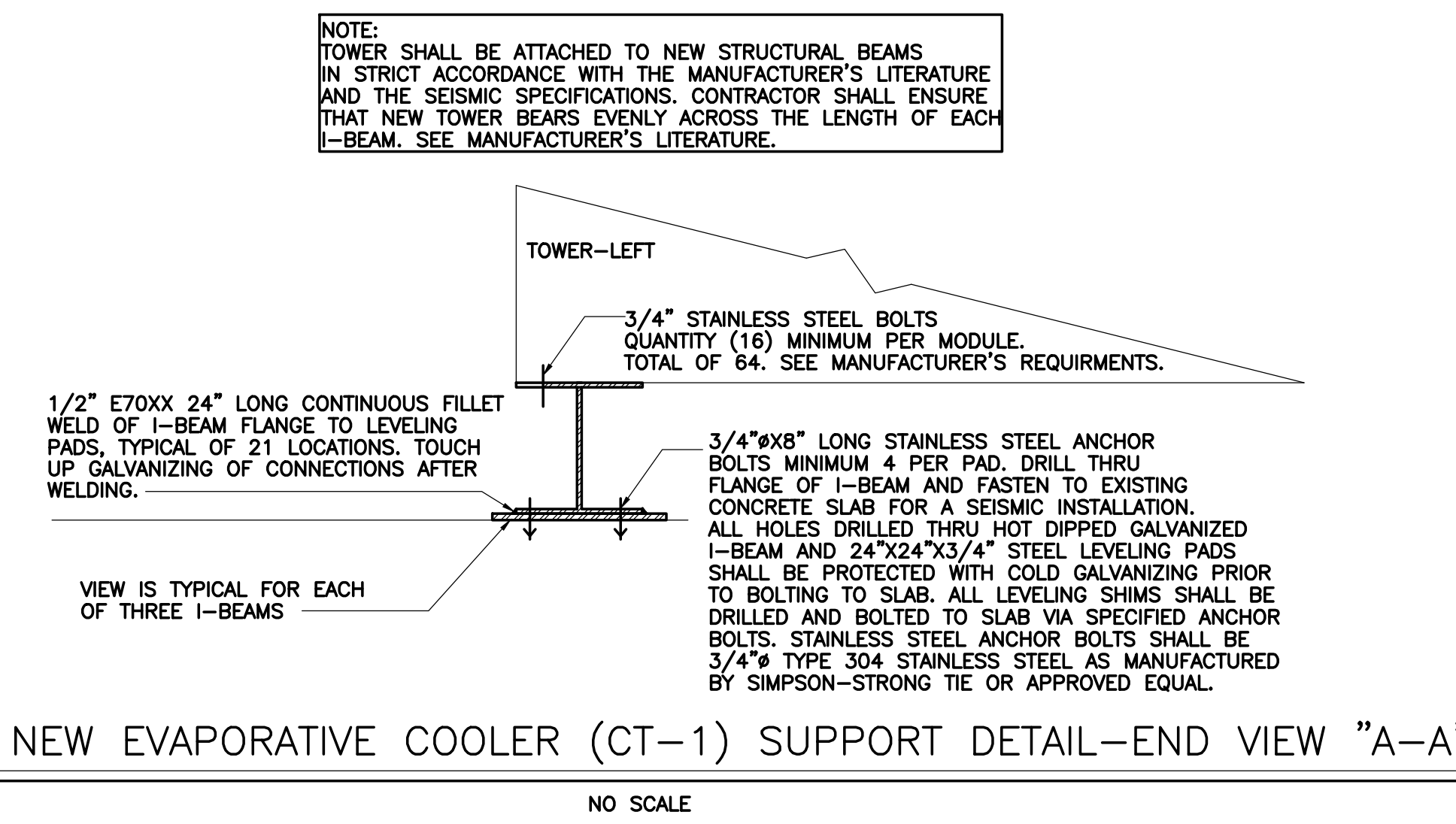
NEW EVAPORATIVE COOLER (CT-1) SUPPORT DETAIL-END VIEW "B-B"
NO SCALE

NOTE: TOWER SHALL BE ATTACHED TO NEW STRUCTURAL BEAMS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LITERATURE AND THE SEISMIC SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT NEW TOWER BEARS EVENLY ACROSS THE LENGTH OF EACH I-BEAM. SEE MANUFACTURER'S LITERATURE.

NOTE: TOWER SHALL BE ATTACHED TO NEW STRUCTURAL BEAMS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LITERATURE AND THE SEISMIC SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT NEW TOWER BEARS EVENLY ACROSS THE LENGTH OF EACH I-BEAM. SEE MANUFACTURER'S LITERATURE.



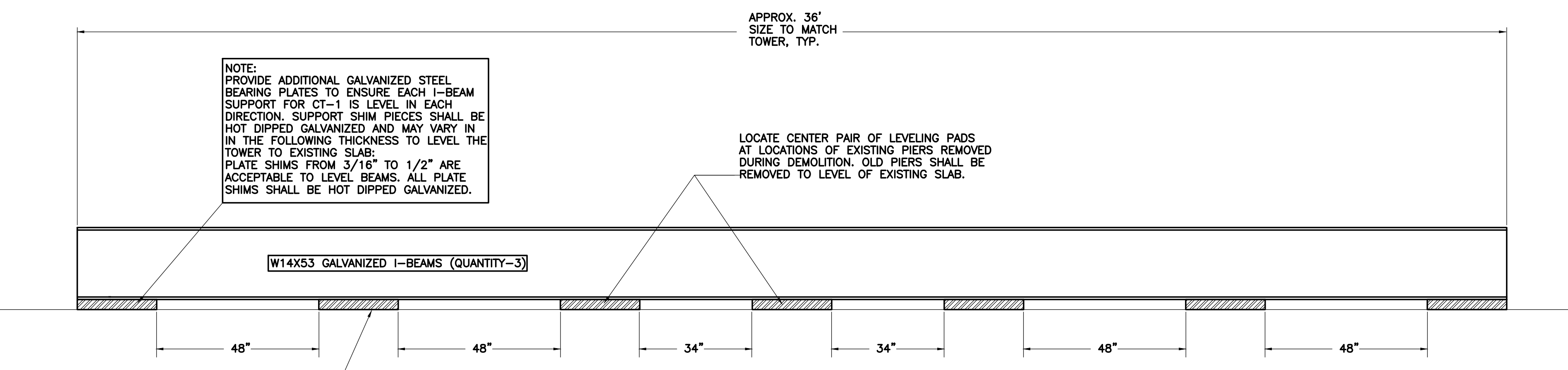
NEW EVAPORATIVE COOLER (CT-1) SUPPORT DETAIL-END VIEW "A-A"
NO SCALE



NEW EVAPORATIVE COOLER (CT-1) SUPPORT DETAIL-END VIEW "A-A"
NO SCALE

NOTE: TOWER SHALL BE ATTACHED TO NEW STRUCTURAL BEAMS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LITERATURE AND THE SEISMIC SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT NEW TOWER BEARS EVENLY ACROSS THE LENGTH OF EACH I-BEAM. SEE MANUFACTURER'S LITERATURE.

NOTE: PROVIDE ADDITIONAL GALVANIZED STEEL BEARING PLATES TO ENSURE EACH I-BEAM SUPPORT FOR CT-1 IS LEVEL IN EACH DIRECTION. SUPPORT SHIM PIECES SHALL BE HOT DIPPED GALVANIZED AND MAY VARY IN THICKNESS TO LEVEL THE TOWER TO EXISTING SLAB. PLATE SHIMS FROM 3/16" TO 1/2" ARE ACCEPTABLE TO LEVEL BEAMS. ALL PLATE SHIMS SHALL BE HOT DIPPED GALVANIZED.



NEW EVAPORATIVE COOLER (CT-1) SUPPORT DETAIL-SIDE VIEW "D-D"
NO SCALE

PROVIDE LEVELING SHIMS AS REQUIRED FOR A LEVEL INSTALLATION. EXISTING SLAB IS SLOPED TO DRAIN TO GRATE INLET DRAIN LOCATE NEAR MECHANICAL ROOM DOOR. I-BEAM TOWER SUPPORT SHALL BE INSTALLED AND LEVELED PRIOR TO SETTING NEW TOWER. THE TOWER WEIGHT SHALL NOT BE USED TO LEVEL SUPPORT STAND VIA BEAM DEFLECTION. CONTRACTOR SHALL CALL FOR ENGINEER'S INSPECTION OF TOWER SUPPORT PRIOR TO SETTING TOWER TO DEMONSTRATE A PROPER MOUNTING SURFACE FOR NEW TOWER. NOTIFICATION SHALL BE 72 HOURS MIN. PRIOR TO TOWER INSTALLATION.

EVAPORATIVE COOLER SUPPORT DETAILS
NO SCALE

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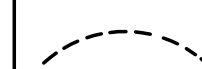
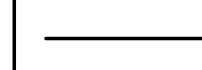
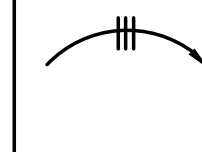

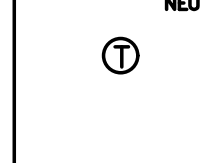
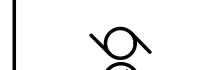









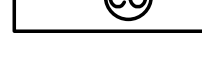




project: MECHANICAL RENOVATIONS TO MYRTLE BEACH HIGH SCHOOL

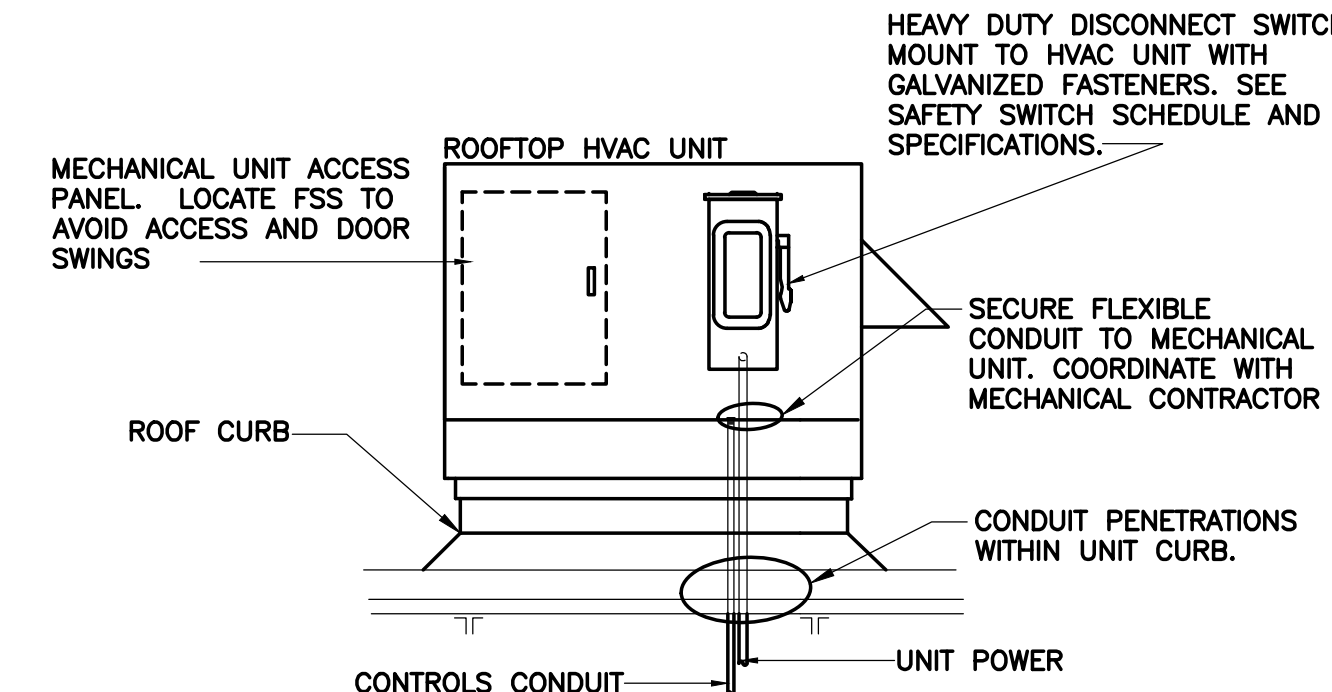
REVISIONS:

project: 2126
date: 12-28-2022

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ELECTRICAL SYMBOL SCHEDULE

-  BRANCH CIRCUIT CONDUIT, CONCEALED IN WALLS AND CEILINGS. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
-  BRANCH CIRCUIT CONDUIT, CONCEALED UNDER FLOOR OR UNDERGROUND. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
-  BRANCH CIRCUIT CONDUIT, EXPOSED. TWO WIRES AND GROUND WIRE UNLESS OTHERWISE INDICATED.
-  BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. NUMBER OF CROSSHATCHES INDICATE NUMBER OF WIRES WHEN GREATER THAN TWO. GROUND WIRE IS NOT INDICATED. CONTRACTOR SHALL INSTALL HOMERUN CIRCUITS AS INDICATED ON DRAWINGS. CONTRACTOR SHALL NOT COMBINE HOMERUN CIRCUITS UNLESS INDICATED ON DRAWINGS.
-  PROVIDE NEW #12 NEUTRAL WIRE FOR NEW HIGH EFFICIENCY THREE PHASE WATER SOURCE HEAT PUMP AS INDICATED. NEW NEUTRAL SHALL BE PULLING TO ASSOCIATED PANEL SERVING UNIT IN EXISTING CONDUIT.
-  DENOTES THERMOSTAT OUTLET LOCATION. PROVIDE BOX AND 3/4" CONDUIT WITH PULLWIRE TO CORRESPONDING MECHANICAL UNIT. MOUNT BOX 54" AFF TO TOP OF BOX. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER AND LOCATIONS ON SPLIT SYSTEM UNITS. PROVIDE 3/4" E.C. FROM THE HEAT PUMP TO THE AHU, IN ADDITION TO THE THERMOSTAT CONDUIT.
-  DENOTES "MOTOR OUTLET LOCATION".
-  DENOTES "JUNCTION BOX".
-  DISCONNECT SWITCH (FUSED SAFETY SWITCH), BY THIS CONTRACTOR. SEE "FUSED SAFETY SWITCH SCHEDULE".
-  ELECTRICAL PANELBOARD. SEE "ELECTRICAL RISER DIAGRAM".
-  MAIN DISTRIBUTION PANELBOARD OR SWITCHBOARD. SEE "ELECTRICAL RISER DIAGRAM".
-  TELEPHONE SERVICE
-  TELEPHONE OUTLET BOX WITH PLATE AND 1" E.C. TO BACKBOARD.
-  DENOTES "ROOFTOP UNIT", BY OTHERS. CONNECT ELECTRICALLY COMPLETE.
-  DENOTES "EMPTY CONDUIT". PROVIDE 16 GAUGE STEEL OR NYLON PULLWIRE.
-  DENOTES "GROUND FAULT INTERRUPTER".
-  DENOTES "MOUNT OVER COUNTER".
-  DENOTES "WEATHER PROOF".
-  DUCT SMOKE DETECTOR BY FIRE ALARM CONTRACTOR
-  EXISTING BOILER E-STOP. RECONNECT TO NEW BOILERS
-  DUCT MOUNTED CARBON MONOXIDE SENSOR BY FIRE ALARM CONTRACTOR



ROOFTOP DISCONNECT MOUNTING DETAIL

NO SCALE

GENERAL ELECTRICAL NOTES:

1. DUE TO THE NATURE OF WORK COVERED UNDER THESE PLANS AND SPECIFICATIONS, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING VISITED THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID.
2. ALL CONDUIT PENETRATIONS OF FIRE RATED WALLS AND/OR CEILINGS SHALL BE FIRESTOPPED AS PER UL STANDARDS.
3. ALL CONDUIT PENETRATIONS OF EXTERIOR WALLS SHALL BE SEALED AND MADE WEATHERPROOF.
4. CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING CEILING TILES AS NECESSARY FOR THE INSTALLATION OF NEW CONDUITS AND DEVICES. CONTRACTOR SHALL REPLACE ANY TILE DAMAGED BY THIS WORK. NEW CEILING TILES TO MATCH EXISTING.
5. ALL CONDUIT RUNS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LENGTH AND LOCATION.
6. ELECTRICAL CONTRACTOR SHALL REFER TO THE ME DRAWINGS AND THE FRONT END SPECIFICATIONS FOR ALL BID ALTERNATES AND ALL PHASING INFORMATION PRIOR TO SUBMITTING A BID.
7. ALL BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
8. THE MECHANICAL EQUIPMENT BASIS OF DESIGN IS AS INDICATED ON THE MECHANICAL DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS OF THE MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO ORDERING MATERIALS. MODIFICATIONS TO ANY ELECTRICAL SYSTEM REQUIRED FOR MECHANICAL EQUIPMENT WHICH DIFFERS FROM THE MECHANICAL BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE MECHANICAL AND ELECTRICAL CONTRACTORS. IN NO CASE SHALL SUBSTITUTION OF MECHANICAL EQUIPMENT RESULT IN ADDITIONAL COSTS TO THE OWNER.
9. ELECTRICAL CONTRACTOR SHALL USE LOCATOR SERVICE TO IDENTIFY ALL UNDERGROUND UTILITIES. DAMAGE TO ANY EXISTING UTILITIES RESULTING FROM INSTALLATION OF NEW ELECTRICAL EQUIPMENT SHALL BE REPAIRED BY THE ELECTRICAL CONTRACTOR.
10. ALL FEEDERS SHALL BE ROUTED CONCEALED. ELECTRICAL CONTRACTOR SHALL SAW CUT AND PATCH EXISTING CONCRETE AS NECESSARY TO ROUTE UNDERGROUND CONDUITS. ABOVE CEILING CONDUITS SHALL BE ROUTED CONCEALED.
11. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR BRINGING THE SITE BACK TO ORIGINAL CONDITIONS AFTER THE COMPLETION OF UNDERGROUND ELECTRICAL WORK. THIS IS INCLUSIVE OF SAW CUT ASPHALT AND CONCRETE SURFACES, EXISTING VEGETATION, GRASS, SITE GRADING ETC. THIS CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE SITE/FACILITY CAUSED BY ELECTRICAL CONSTRUCTION.
12. ELECTRICAL CONTRACTOR SHALL SAW CUT EXISTING CONCRETE AND ASPHALT DRIVES AS REQUIRED TO INSTALL BELOW GRADE CONDUITS. AFTER INSTALLATION OF WORK, CONTRACTOR SHALL BACKFILL AND BRING SOIL TO INITIAL COMPACTION LEVELS AND REPAIR SAW CUT AREAS OF CONCRETE AND ASPHALT DRIVES. PATCHING SHALL MATCH EXISTING WITH REGARD TO REINFORCING AND THICKNESS. ALL SAW CUT TRENCHES SHALL BE MADE IN A WORKMANLIKE FASHION.
13. ANY EXISTING ELECTRICAL EQUIPMENT NOT BEING REMOVED OR RELOCATED BUT ON THE SAME CIRCUIT AS ANY ELECTRICAL EQUIPMENT BEING REMOVED OR RELOCATED SHALL BE RECONNECTED TO ALLOW FOR NORMAL OPERATION UNLESS SHOWN OTHERWISE ON THE NEW WORK DRAWINGS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND LABOR FOR THE RECONNECTION OF SAID DEVICES.
14. ELECTRICAL CONTRACTOR SHALL RELOCATE ANY EXISTING ELECTRICAL EQUIPMENT, CIRCUITRY, OR CONDUIT THAT INTERFERES WITH DEMOLITION OR INSTALLATION WORK AND PROVIDE ALL NECESSARY MATERIALS AND LABOR NEEDED TO RETURN THE RELOCATED EQUIPMENT TO A SAFE AND OPERATING CONDITION THAT CONFORMS TO THE CURRENT EDITION OF THE N.E.C. AND ALL LOCAL REGULATIONS. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE AND ALL OTHER TRADES.
15. ANY DEVICE INTERFERING WITH DEMOLITION OR INSTALLATION, NOT BEING REMOVED OR RELOCATED, SHALL NOT BE MOVED WITHOUT WRITTEN CONSENT FROM THE OWNER'S REPRESENTATIVE.
16. ALL WORK SHALL BE IN COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS LISTED IN THE ARCHITECTURAL CODE ANALYSIS FOUND ELSEWHERE IN THESE CONTRACT DOCUMENTS.
17. FIRE ALARM CONTRACTOR SHALL PROVIDE NEW RETURN DUCT SMOKE DETECTORS AND SUPPLY DUCT MOUNTED CARBON MONOXIDE SENSORS FOR EACH VENTILATION AIR UNIT AS INDICATED. DEVICES SHALL BE CONNECTED TO THE EXISTING BUILDING FIRE ALARM SYSTEM AND, UPON SENSING SMOKE OR PRODUCTS OF COMBUSTION INSTANTLY, SHUT DOWN ASSOCIATED UNIT AND REPORT A "TROUBLE" SIGNAL TO THE BUILDING FIRE ALARM PANEL. SMOKE AND CO DETECTORS SHALL NOT SOUND THE BUILDING FIRE ALARM SYSTEM. COORDINATE INSTALLATION OF DEVICES WITH MECHANICAL AND CONTROLS CONTRACTORS. BUILDING CONTROLS SYSTEM CONTRACTOR IS CMI. BUILDING FIRE ALARM CONTRACTOR IS JCI. FIRE ALARM CONTRACTOR SHALL DISCONNECT/RECONNECT EXISTING DUCT SMOKE DETECTORS SERVING EXISTING UNITS. ANY DUCT SMOKE DETECTOR THAT IS NOT OPERABLE SHALL BE REPLACED UNDER THIS CONTRACT.
18. SEE NOTES BELOW MECHANICAL UNIT ELECTRICAL DISCONNECT SCHEDULE FOR NEW 3 PHASE MECHANICAL UNITS (HIGH EFFICIENCY WATER SOURCE UNITS MODEL DXHF AND NEW FAN POWERED VAV BOXES). CONTRACTOR SHALL PROVIDE NEW NEUTRAL WIRE WITH SIZE AS INDICATED IN EXISTING CONDUIT FOR EACH OF THESE MECHANICAL UNITS BACK TO PANEL SERVING EXISTING UNIT. COORDINATE NEUTRAL REQUIREMENT FOR ALL NEW 3 PHASE UNITS WITH MECHANICAL CONTRACTOR. SEE MECHANICAL UNIT DISCONNECT SCHEDULE FOR ALL NEUTRAL SIZES.
19. SEE NOTE REGARDING PHASING OF BASE BID AND ALTERNATE WORK. ELECTRICAL CONTRACTOR SHALL WORK IN CONJUNCTION WITH MECHANICAL CONTRACTOR WITH REGARD TO DISCONNECTING/RECONNECTING ALL MECHANICAL EQUIPMENT BEING REPLACED TO MINIMIZE HVAC OUTAGES. ALL ELECTRICAL OUTAGES DUE TO EQUIPMENT REPLACEMENT AND ADDITION OF NEW ELECTRICAL PANEL BOARDS SHALL BE COORDINATED AND APPROVED BY OWNER AND ENGINEER WITHOUT EXCEPTION.
20. SEE NOTES FOR BASE BID AND ALL ALTERNATES REGARDING FUNCTIONALITY OF EXISTING ELECTRICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO POWER CIRCUITS, LIGHTING FIXTURES AND FIRE ALARM DEVICES BEING REMOVED, STORED AND REINSTALLED, ETC. THIS CONTRACTOR IS RESPONSIBLE OF VERIFICATION OF PROPER OPERATION OF ALL DEVICES AND EQUIPMENT BEING REMOVED AND REINSTALLED PRIOR TO REMOVAL. ANY ELECTRICAL OR FIRE ALARM DEVICE THAT IS NOT CURRENTLY FUNCTIONAL SHALL BE REPORTED TO THE ENGINEER/OWNER. THIS CONTRACTOR IS RESPONSIBLE FOR A FULLY FUNCTIONAL SYSTEM AT THE COMPLETION OF WORK IN THE AFFECTED AREA(S) AS THIS PROJECT CONSISTS OF MULTIPLE PHASES.

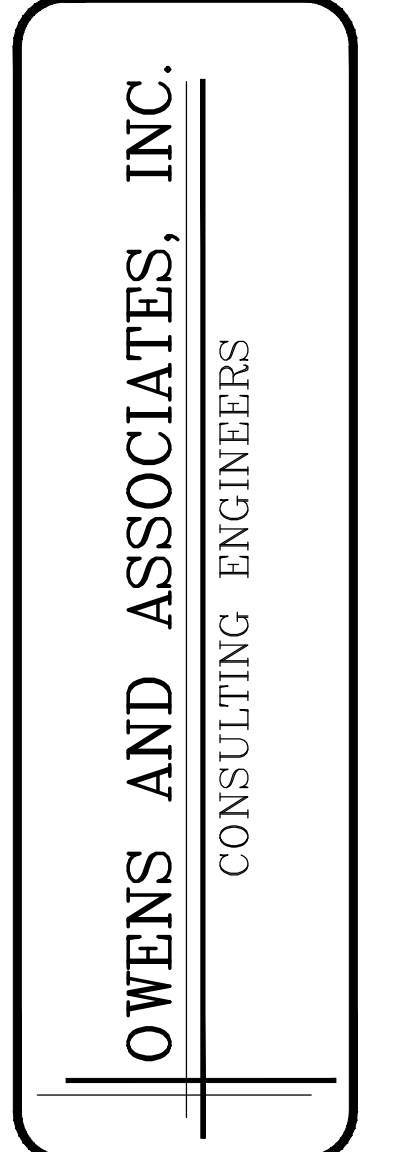
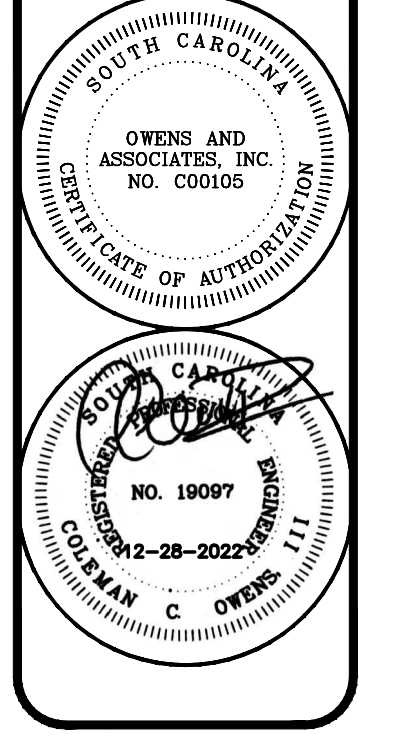
MECHANICAL UNIT ELECTRICAL DISCONNECT SCHEDULE

SYMBOL	DISCONNECT (AMPS)	FUSE (AMPS)	VOLTAGE	PHASE	REQUIREMENTS	ENCL.	
1	277	1	277	1	1/2" C.-2#12 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 1	
2	277	1	277	1	1/2" C.-2#12 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 1	
3	277	1	277	1	1/2" C.-2#12 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 1	
3A	30	15	480	3	1/2" C.-4#12 AND 1#12 GROUND-PROVIDE NEUTRAL/EXTEND EXIST. CIRCUIT	NEMA 1	
4	30	15	480	3	1/2" C.-4#12 AND 1#12 GROUND-PROVIDE NEUTRAL/EXTEND EXIST. CIRCUIT	NEMA 1	
5	30	15	480	3	1/2" C.-4#12 AND 1#12 GROUND-PROVIDE NEUTRAL/EXTEND EXIST. CIRCUIT	NEMA 1	
6	30	15	480	3	1/2" C.-4#12 AND 1#12 GROUND-PROVIDE NEUTRAL/EXTEND EXIST. CIRCUIT	NEMA 1	
7	30	20	480	3	1/2" C.-3#12 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 1	
8	30	20	480	3	1/2" C.-3#12 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 1	
9	100	80	480	3	1-1/4" C.-3#6 AND 1#8 GROUND-EXTEND EXISTING CIRCUIT	NEMA 1	
10	60	30	480	3	1/2" C.-3#10 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 3R	
11	60	40	480	3	3/4" C.-3#8 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 3R	
12	100	100	480	3	1" C.-3#3 AND 1#6 GROUND-EXTEND EXISTING CIRCUIT	NEMA 3R	
13	AHU	60	35	208	1	3/4" C.-2#8 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 1
14	CU	30	208	1	1/2" C.-3#10 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 3R	
15	AHU	60	40	208	1	3/4" C.-2#8 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 3R
16	CU	30	208	1	1/2" C.-3#10 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT	NEMA 3R	
17	CU	30	208	1	1/2" C.-3#10 AND 1#12 GROUND-EXTEND EXISTING CIRCUIT TO WHPP	W/UNIT	
18	AHU	30	15	120	1	1/2" C.-2#12 AND 1#12 GROUND-POWER FROM CONDENSING UNIT	NEMA 1
19	CU	30	20	208	1	1/2" C.-3#10 AND 1#12 GROUND-PROVIDE W/NEUTRAL	NEMA 3R
20	AHU	30	15	120	1	1/2" C.-2#12 AND 1#12 GROUND-POWER FROM CONDENSING UNIT	NEMA 1
21	CU	30	25	208	1	1/2" C.-3#10 AND 1#12 GROUND-PROVIDE W/NEUTRAL	NEMA 3R
VAU-13	200	150	480	3	2" C.-3#1/0 AND 1#3 GROUND. POWER FROM NEW PANEL HMG-2	NEMA 3R	
VAU-14	200	150	480	3	2" C.-3#1/0 AND 1#3 GROUND. POWER FROM NEW PANEL HMG-2	NEMA 3R	
VAU-15	200	125	208	3	2" C.-3#1/0 AND 1#3 GROUND-EXTEND EXISTING CIRCUIT	NEMA 3R	
VAV-A*	30	20	480	3	1/2" C.-4#12 AND 1#12 GROUND-EXTEND EX. CIRCUIT PROVIDE NEUTRAL	NEMA 1	
VAV-B*	30	20	480	3	1/2" C.-4#12 AND 1#12 GROUND-EXTEND EX. CIRCUIT PROVIDE NEUTRAL	NEMA 1	
VAV-C*	30	20	480	3	1/2" C.-4#12 AND 1#12 GROUND-EXTEND EX. CIRCUIT PROVIDE NEUTRAL	NEMA 1	
VAV-D*	30	20	480	3	1/2" C.-4#12 AND 1#12 GROUND-EXTEND EX. CIRCUIT PROVIDE NEUTRAL	NEMA 1	
VAV-E*	30	20	480	3	1/2" C.-4#12 AND 1#12 GROUND-EXTEND EX. CIRCUIT PROVIDE NEUTRAL	NEMA 1	
VAV-F*	30	20	480	3	1/2" C.-4#12 AND 1#12 GROUND-EXTEND EX. CIRCUIT PROVIDE NEUTRAL	NEMA 1	
VAV-G*	30	30	480	3	1/2" C.-4#10 AND 1#12 GROUND-EXTEND EX. CIRCUIT PROVIDE NEUTRAL	NEMA 1	
VAV-I*	30	30	480	3	1/2" C.-4#10 AND 1#12 GROUND-EXTEND EX. CIRCUIT PROVIDE NEUTRAL	NEMA 1	
CDWP-1	VFD/WITH INT. DISC.	BRKR. 25	480	3	1/2" C.-3#12 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-2A	VFD/WITH INT. DISC.	BRKR. 25	480	3	1/2" C.-3#10 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-2B	VFD/WITH INT. DISC.	BRKR. 25	480	3	1/2" C.-3#10 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-3	VFD/WITH INT. DISC.	BRKR. 20	480	3	1/2" C.-3#12 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-4	VFD/WITH INT. DISC.	BRKR. 25	480	3	1/2" C.-3#10 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-5	VFD/WITH INT. DISC.	BRKR. 20	480	3	1/2" C.-3#12 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-6	VFD/WITH INT. DISC.	BRKR. 20	480	3	1/2" C.-3#12 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-7	VFD/WITH INT. DISC.	BRKR. 25	480	3	1/2" C.-3#10 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-8	VFD/WITH INT. DISC.	BRKR. 25	480	3	1/2" C.-3#10 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-9	VFD/WITH INT. DISC.	BRKR. 25	480	3	1/2" C.-3#10 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-10A	VFD/WITH INT. DISC.	BRKR. 40	480	3	1/2" C.-3#8 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CDWP-10B	VFD/WITH INT. DISC.	BRKR. 40	480	3	1/2" C.-3#8 AND 1#12 GROUND-EXTEND EX. CIRCUIT TO VFD & PUMP	NEMA 1	
CT-1A	100	50	480	3	1-1/4" C.-3#6 AND 1#10 GROUND-FROM PANEL HMCT TO CT-1A	NEMA 4X	
CT-1B	100	50	480	3	1-1/4" C.-3#6 AND 1#10 GROUND-FROM PANEL HMCT TO CT-1B	NEMA 4X	
CT-1C	100	50	480	3	1-1/4" C.-3#6 AND 1#10 GROUND-FROM PANEL HMCT TO CT-1C	NEMA 4X	
CT-1D	100	50	480	3	1-1/4" C.-3#6 AND 1#10 GROUND-FROM PANEL HMCT TO CT-1D	NEMA 4X	
CT-1(P-1)	30	20	480	3	1/2" C.-3#12 AND 1#12 GROUND-FROM PANEL HMCT TO CT-1A	NEMA 4X	
CT-1(P-2)	30	20	480	3	1/2" C.-3#12 AND 1#12 GROUND-FROM PANEL HMCT TO CT-1B	NEMA 4X	
CT-1(P-3)	30	20	480	3	1/2" C.-3#12 AND 1#12 GROUND-FROM PANEL HMCT TO CT-1C	NEMA 4X	
CT-1(P-4)	30	20	480	3	1/2" C.-3#12 AND 1#12 GROUND-FROM PANEL HMCT TO CT-1D	NEMA 4X	
CT-1V/IR BASIN HTR	60	40	480	3	1-1/4" C.-3#6 AND 1#10 GROUND-FROM PANEL HMCT-2 TO HTR CNTL PNL	NEMA 4X	
CT-1C/1D BASIN HTR	60	40	480	3	1-1/4" C.-3#6 AND 1#10 GROUND-FROM PANEL HMCT-2 TO HTR CNTL PNL	NEMA 4X	
CDB-1	30	20	480	3	1/2" C.-3#12 AND 1#12 GROUND-FROM PANEL HMCT	NEMA 1	
BP-1	30	15	480	3	1/2" C.-3#12 AND 1#12 GROUND-FROM PANEL HMCT	NEMA 1	
CDB-2	30	20	480	3	1/2" C.-3#12 AND 1#12 GROUND-FROM PANEL HMCT	NEMA 1	
BP-2	30	15	480	3	1/2" C.-3#12 AND 1#12 GROUND-FROM PANEL HMCT	NEMA 1	

- NOTES: FUSE NEW DISCONNECTS TO THE M.O.C.P. OF EQUIPMENT PROVIDED. SEE PLANS FOR QUANTITIES OF EACH UNIT SYMBOL. DISCONNECT ENCLOSURES SHALL BE WITH NEMA RATINGS BY SQUARE-D OR APPROVED EQUAL AS SCHEDULED.
- *-DENOTES FAN POWERED VAV BOXES THAT REQUIRE A THREE PHASE, FOUR WIRE SYSTEM. CONTRACTOR SHALL PULL AN ADDITIONAL NEUTRAL WIRE AS INDICATED TO POWER INTERNAL BLOWER MOTOR. FIELD VERIFY.
- **-MNI SPLIT AIR HANDLING UNIT #18 & 17 SHALL BE POWERED AT 120V THRU CONDENSING UNIT DISCONNECT. SEE MANUFACTURERS LITERATURE. TYPICAL. PROVIDE NEUTRAL TO DISCONNECT FOR AIR HANDLER POWER.
- ***-COORDINATE FUSE SIZES WITH MANUFACTURERS RATED MOCP REQUIREMENTS.
- ****-FOR ROOFTOP HVAC EQUIPMENT, CONTRACTOR SHALL ROUTE POWER FEEDS UP THRU CURB AND UNIT AND MOUNT NEW FUSED DISCONNECT ON SIDE OF UNIT. CONTRACTOR SHALL ENSURE CONDENSER COILS ARE NOT DAMAGED DUE TO MOUNTING.
- *****-NOTE: WATER SOURCE HEAT PUMPS 3A,4,5&6 ARE 480/3#4, 5 WIRE (4 CONDUCTORS + GND WIRE) UNITS. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW #12 NEUTRAL WIRE FOR EACH WATER SOURCE HEAT PUMP BACK TO EXISTING PANEL SERVING UNIT BEING REPLACED. RETAIN EXISTING POWER CONDUCTORS AND CONDUIT. COORDINATE NEUTRAL REQUIREMENT FOR ALL 3 PHASE HEAT PUMPS WITH MECHANICAL CONTRACTOR. FIELD VERIFY EXACT LOCATION OF EXISTING PANELS SERVING THESE HEAT PUMPS.

ELECTRICAL SCHEDULES AND DETAILS

NO SCALE

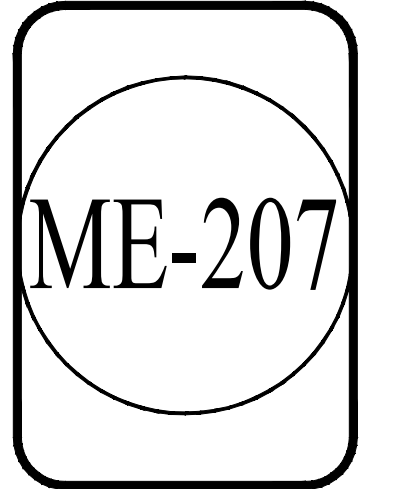


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Mt. Pleasant, South Carolina

project:
MECHANICAL RENOVATIONS TO MYRTLE BEACH HIGH SCHOOL

REVISIONS

project: 2126
date: 12-28-2022



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EXISTING PANEL SCHEDULES "G-2"

EXISTING PANEL G-2 (SECTION 2)-EXIST. LOADS

Table with columns: PANEL, EXIST. SURF, MOUNTED, TYPE, SQUARE D (EXIST), 400 AMP. Lists electrical loads for existing panel G-2.

NEW PANEL SCHEDULES "G-2"

EXISTING PANEL G-2 (SECTION 2)-NEW LOADS

Table with columns: PANEL, EXIST. SURF, MOUNTED, TYPE, SQUARE D (EXIST), 400 AMP. Lists electrical loads for new panel G-2.

EXISTING PANEL SCHEDULE "HMG-1" (SECTION 1)

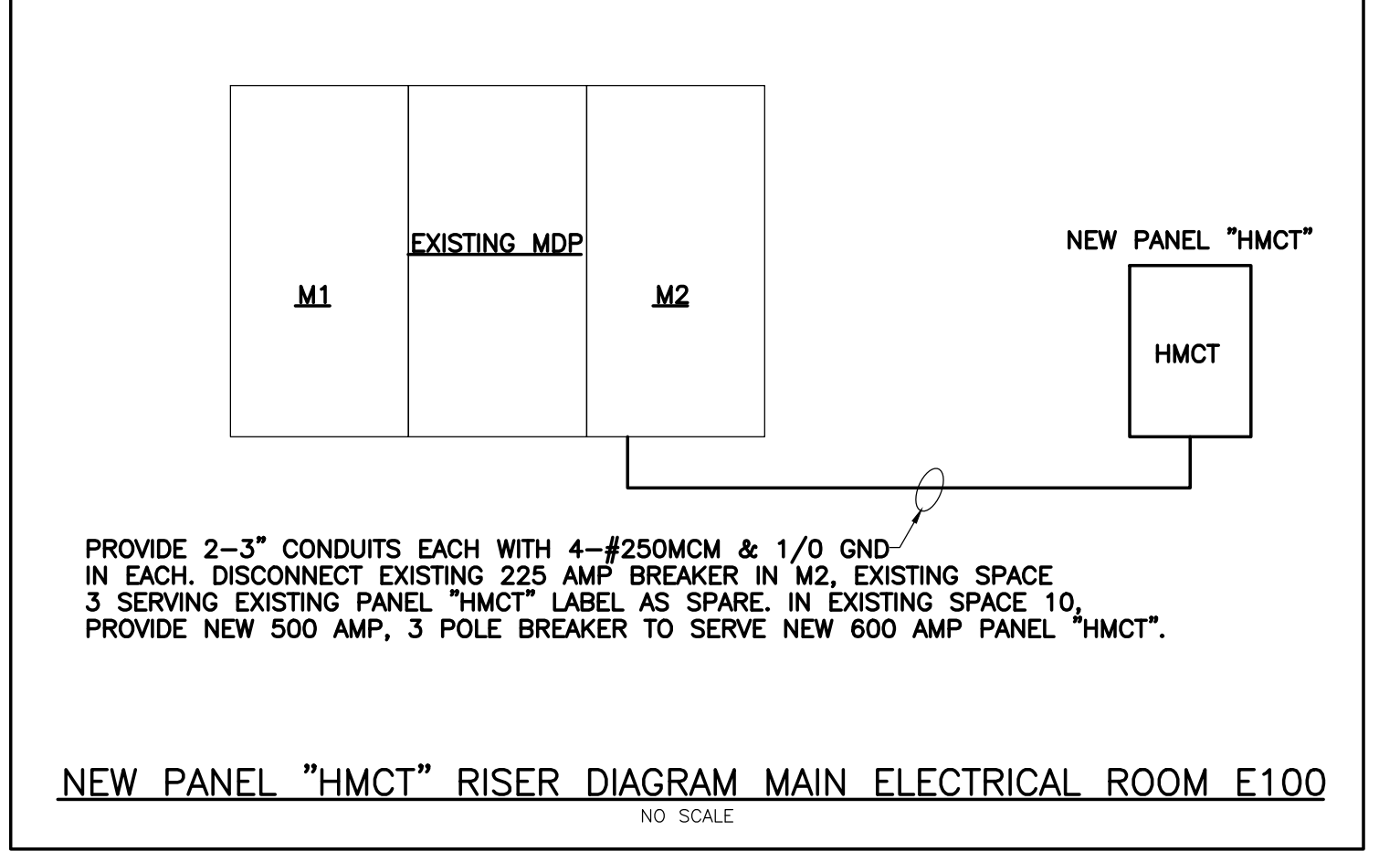
EXISTING PANEL HMG-1(SECTION 1)-EXIST. LOADS

Table with columns: PANEL, EXISTING SURF, MOUNTED, TYPE, SQUARE D (EXIST), 600 AMP. Lists electrical loads for existing panel HMG-1.

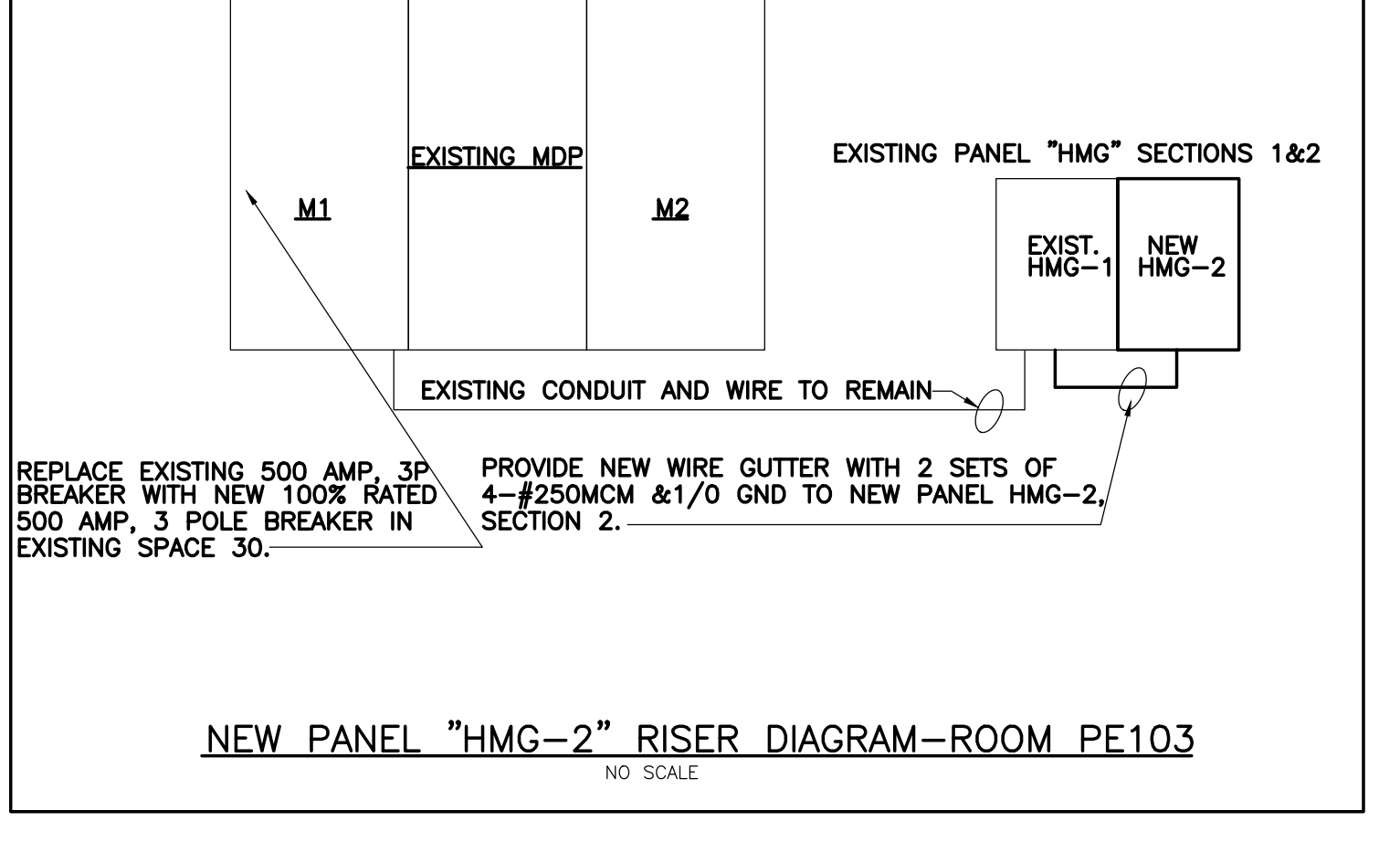
NEW PANEL SCHEDULE "HMG-1" (SECTION 1)

EXISTING PANEL HMG-1(SECTION 1)-NEW LOADS

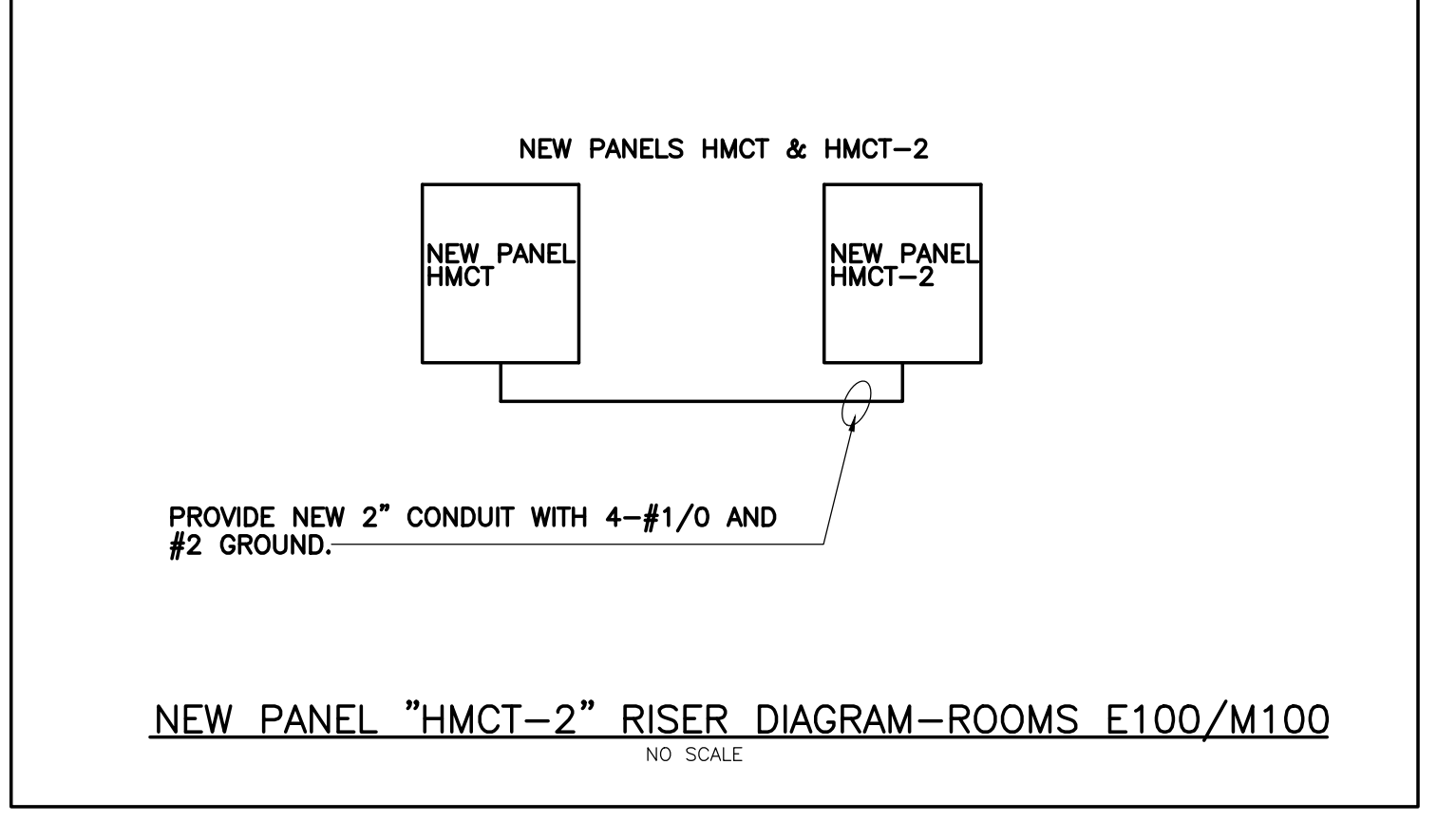
Table with columns: PANEL, EXISTING SURF, MOUNTED, TYPE, SQUARE D (EXIST), 600 AMP. Lists electrical loads for new panel HMG-1.



NEW PANEL "HMCT" RISER DIAGRAM MAIN ELECTRICAL ROOM E100



NEW PANEL "HMG-2" RISER DIAGRAM-ROOM PE103



NEW PANEL "HMCT-2" RISER DIAGRAM-ROOMS E100/M100

EXISTING PANEL SCHEDULES "G-3"

EXISTING PANEL G-3 (SECTION 3)-EXIST. LOADS

Table with columns: PANEL, EXIST. SURF, MOUNTED, TYPE, SQUARE D (EXIST), 400 AMP. Lists electrical loads for existing panel G-3.

NEW PANEL SCHEDULES "G-3"

EXISTING PANEL G-3 (SECTION 3)-NEW LOADS

Table with columns: PANEL, EXIST. SURF, MOUNTED, TYPE, SQUARE D (EXIST), 400 AMP. Lists electrical loads for new panel G-3.

EXISTING PANEL SCHEDULE "HMG-1" (SECTION 1)

EXISTING PANEL HMG-2(SECTION 2)-EXIST. LOADS

Table with columns: PANEL, EXISTING SURF, MOUNTED, TYPE, SQUARE D (EXIST), 600 AMP. Lists electrical loads for existing panel HMG-2.

NEW PANEL "HMG-2" (SECTION 2)

NEW PANEL HMG-2

Table with columns: PANEL, SURF, MOUNTED, TYPE, POW-R LINE, 600 AMP. Lists electrical loads for new panel HMG-2.

EXISTING PANEL SCHEDULES "HMCT" AND "HMB-2"

EXISTING PANEL HMCT-EXIST. LOADS

Table with columns: PANEL, EXISTING SURF, MOUNTED, TYPE, SQUARE D (EXIST), 225 AMP. Lists electrical loads for existing panel HMCT.

NEW PANEL SCHEDULES "HMCT" AND "HMB-2"

NEW PANEL HMCT

Table with columns: PANEL, SURF, MOUNTED, TYPE, SQ-D, 600 AMP. Lists electrical loads for new panel HMCT.

EXISTING PANEL SCHEDULE "MCT"

EXISTING PANEL MCT - EXISTING LOADS

Table with columns: PANEL, EXISTING SURF, MOUNTED, TYPE, SQUARE D (EXIST), 100 AMP. Lists electrical loads for existing panel MCT.

NEW PANEL SCHEDULE "MCT"

EXISTING PANEL MCT - NEW LOADS

Table with columns: PANEL, SURF, MOUNTED, TYPE, SQUARE D (EXIST), 100 AMP. Lists electrical loads for new panel MCT.

EXISTING PANEL HMB(SECT. 1)-EXIST. LOADS

Table with columns: PANEL, EXISTING SURF, MOUNTED, TYPE, SQUARE D (EXIST), 225 AMP. Lists electrical loads for existing panel HMB.

EXISTING PANEL HMB(SECTION 1)-NEW LOADS

Table with columns: PANEL, EXISTING SURF, MOUNTED, TYPE, SQUARE D (EXIST), 225 AMP. Lists electrical loads for new panel HMB.

NEW PANEL "HMCT-2"

NEW PANEL HMCT-2

Table with columns: PANEL, SURF, MOUNTED, TYPE, POW-R LINE, 225 AMP. Lists electrical loads for new panel HMCT-2.

NEW PANEL "HMCT-2"

NEW PANEL HMCT-2

Table with columns: PANEL, SURF, MOUNTED, TYPE, POW-R LINE, 225 AMP. Lists electrical loads for new panel HMCT-2.

NOTE-1: REMOVE PANEL "HMCT" AND REPLACE WITH NEW 600 AMP PANEL. INSTALL NEW 3-POLE, 500A, MAIN BREAKER AT M1. MATCH MAIN PANEL MGF. SEE RISER DIAGRAM FOR NEW CONDUIT AND WIRE SIZES.

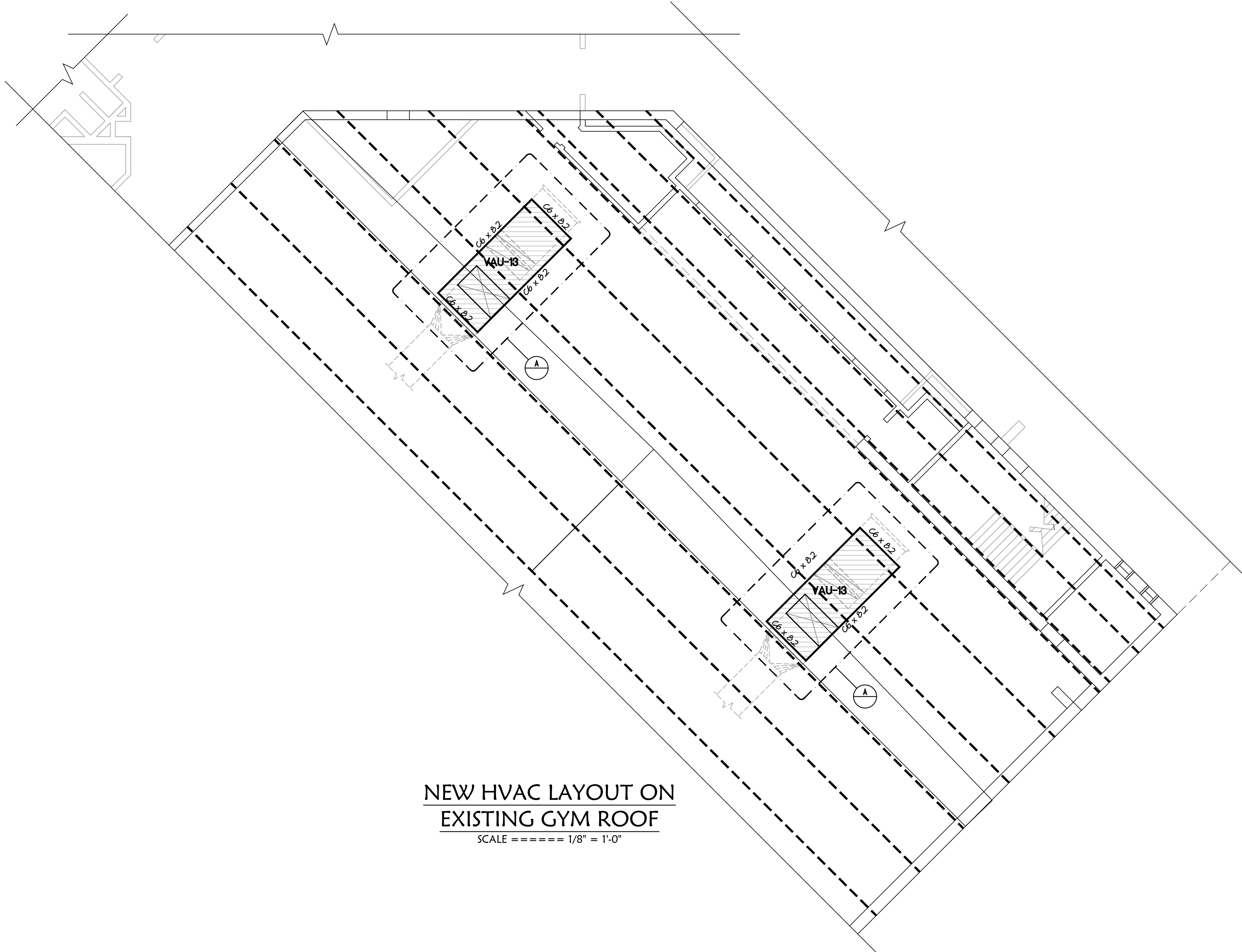
NOTE-1: REPLACE EXISTING 3-POLE 175 AMP BREAKER SERVING PANEL "HMB-1&2" WITH NEW 3-POLE, 175A, 100% RATED MAIN BREAKER AT MAIN DIST. PANEL. NOTE-2: PROVIDE NEW HACR BREAKERS FOR ALL NEW PUMPS AS INDICATED. EXISTING CONDUIT AND WIRE FROM PANEL TO LOADS SHALL BE REUSED.

NOTE-1: PROVIDE NEW PANEL HMG-2 IN LOCATION OF EXISTING PANEL HMG-2. PROVIDE WIRE GUTTER AND CONNECT TO EXISTING 800 AMP FEED THRU LUG LOCATED IN PANEL HMG-1. PROVIDE 2 SETS OF 4-#250MCM CONDUCTORS AND #1 GROUND. NOTE-2: REPLACE EXISTING 500 AMP BREAKER SERVING PANEL "HMG-1&2" WITH NEW 100% RATED MAIN BREAKER. BREAKERS 1&2 SHALL BE TYPE HACR RECONNECT TO EXISTING FEEDER WIRE FROM MAIN DIST. PANEL M1. SEE RISER DIAGRAM FOR WIRE AND CONDUIT SIZES FOR NEW PANEL.

NOTE: REMOVE CONDUIT AND WIRE BACK TO HEM-1 FOR EXISTING HPU-13, 12A, AND 12B. RETAIN EXISTING 3 POLE 30 AMP BREAKERS FOR USE AS SPARES LOCATED IN SPACES 37-41, 32-36, AND 38-42 RESPECTIVELY.

NOTE: CONTRACTOR SHALL REMOVE SUB-FEED PANEL BREAKERS, CONDUIT AND WIRE BACK TO EXISTING HPU'S SERVING GYMNASIUM BACK TO FEED THRU LUG LOCATED IN PANEL HMG-1.

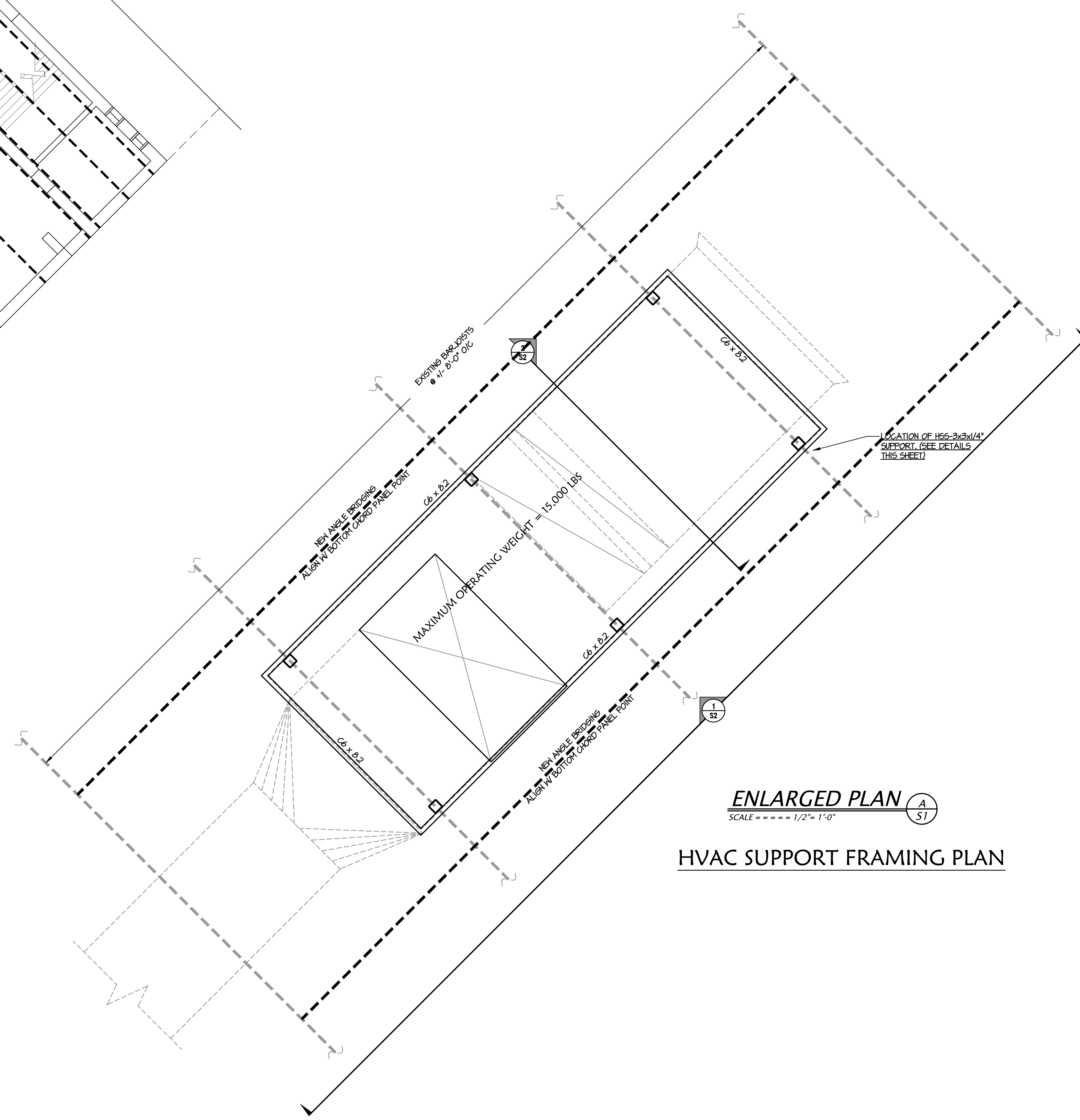
Professional Engineer seal for Owens and Associates, Inc. (No. 19097, State of North Carolina). Project information: MECHANICAL RENOVATIONS TO MYRTLE BEACH HIGH SCHOOL, project 2126, date 12-28-2022. Contact info: 1007 Lake Hunter Circle, Mt. Pleasant, South Carolina 29464. Phone: (843) 849-6457. Fax: (843) 849-6551.



NEW HVAC LAYOUT ON EXISTING GYM ROOF
SCALE = 1/8" = 1'-0"

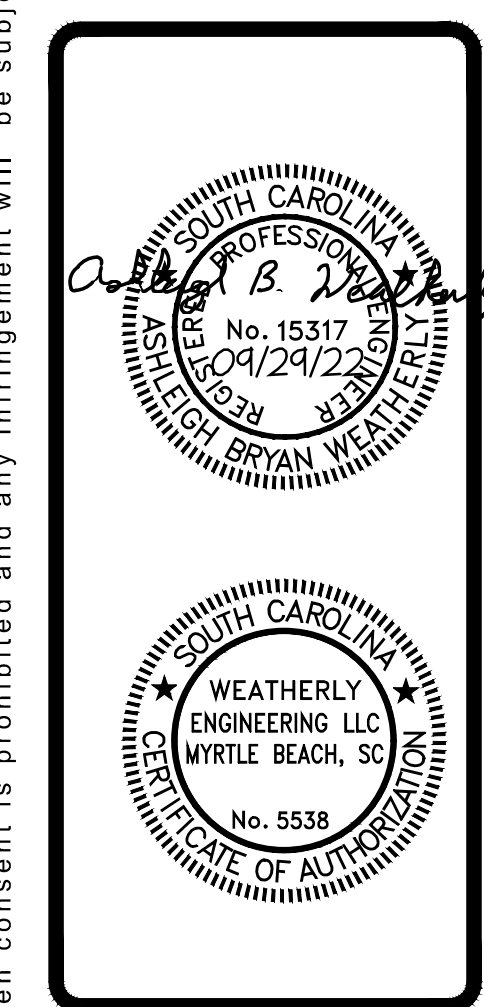
- GENERAL NOTES:
1. LOCATE UNIT SUCH THAT UNIT STRADDLES TOP CHORD PANEL POINT. COORDINATE LOCATIONS WITH MEP AND STRUCTURAL.
 2. INSTALL BRACING EACH SIDE OF HVAC LOCATION SUCH THAT LINE OF BRACING ALIGNS WITH BOTTOM CHORD PANEL POINT.
 3. PRIME ALL FIELD WELDS WITH PRIMER
 4. PAINT STEEL TO MATCH EXISTING STEEL JOIST
 5. ALL STEEL ANGLES TO $F_y = 50,000$
 - ALL WELDS TO BE PERFORMED BY CERTIFIED WELDERS.
 - ALL STEEL WELDS TO BE E70 ELECTRODE
 - ALL STEEL ANGLES TO BE $F_y = 50$ KSI ANGLES

- SPECIAL INSPECTIONS (IBC CODE 2018) :
1. VERIFY PROPER WELDING PROCEDURES
 2. VERIFY PROPER INSTALLATION OF STEEL BRACING MEMBERS



ENLARGED PLAN A
SCALE = 1/2" = 1'-0"
HVAC SUPPORT FRAMING PLAN

Partner In Charge	ABW
Project Engineer	ABW
Drawn By	AGB
Date Drawn	09/29/22
Revisions	
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
Issue Date	



New HVAC Support For
Myrtle Beach High School
MYRTLE BEACH, SOUTH CAROLINA

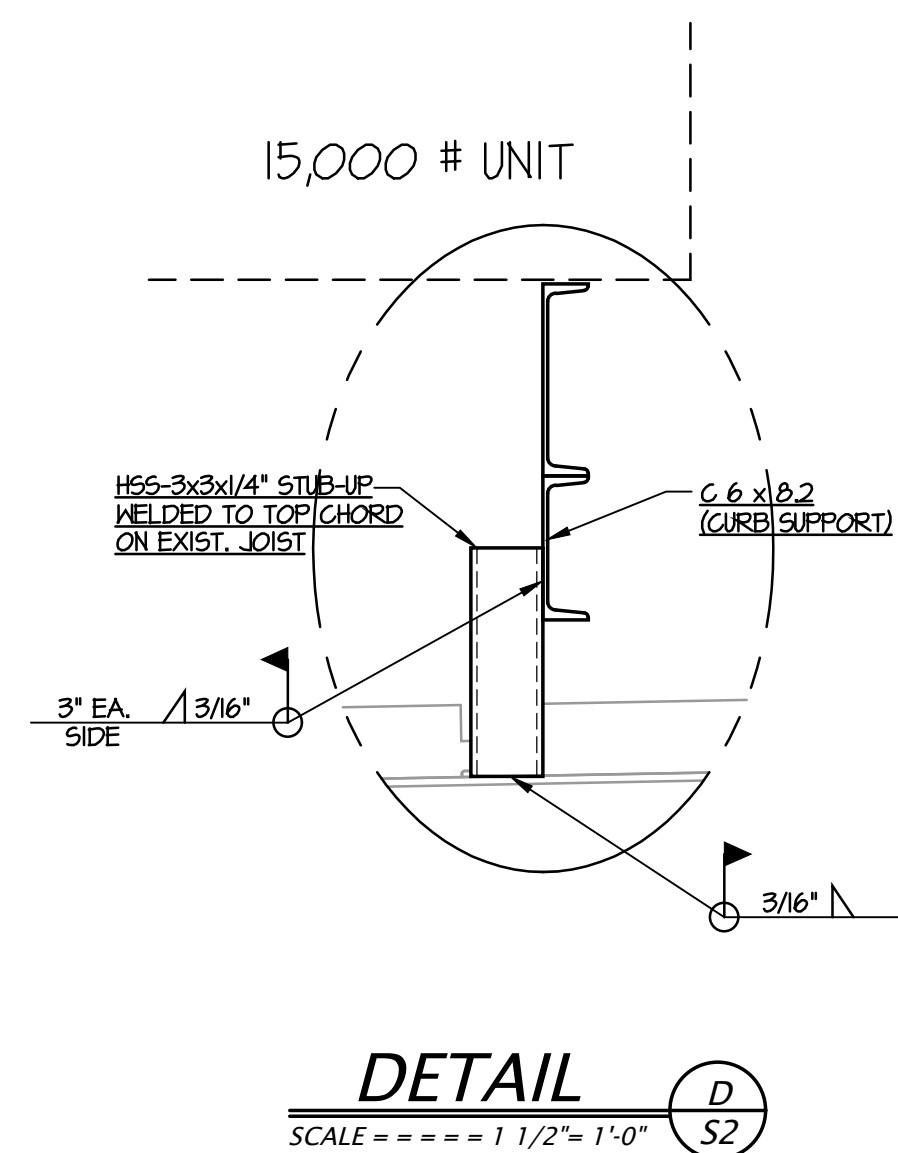
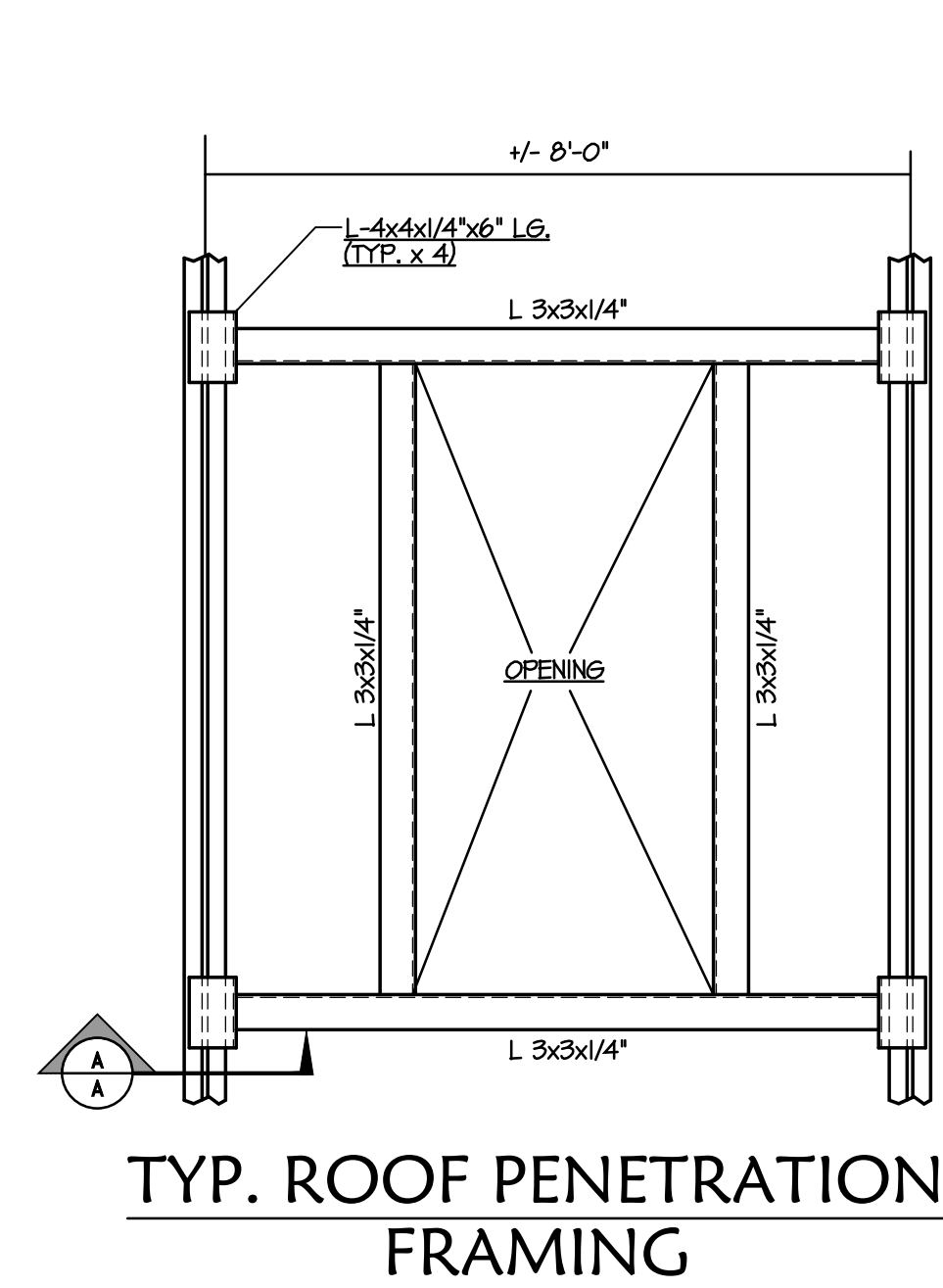
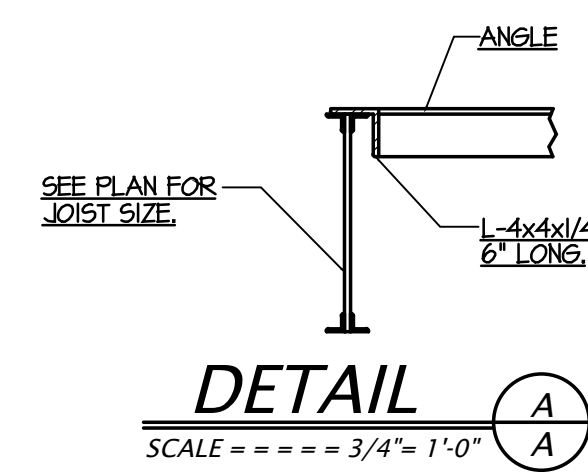
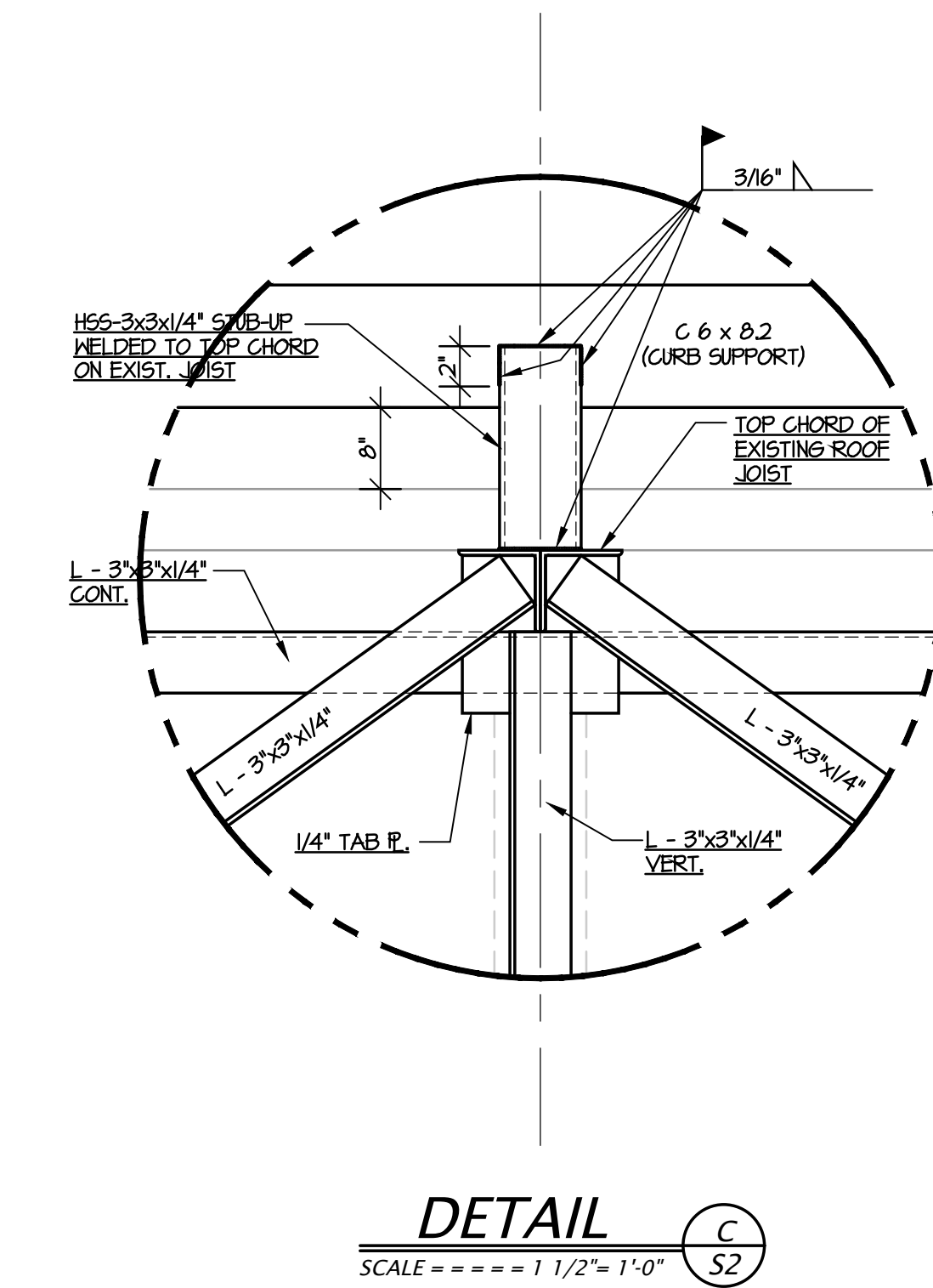
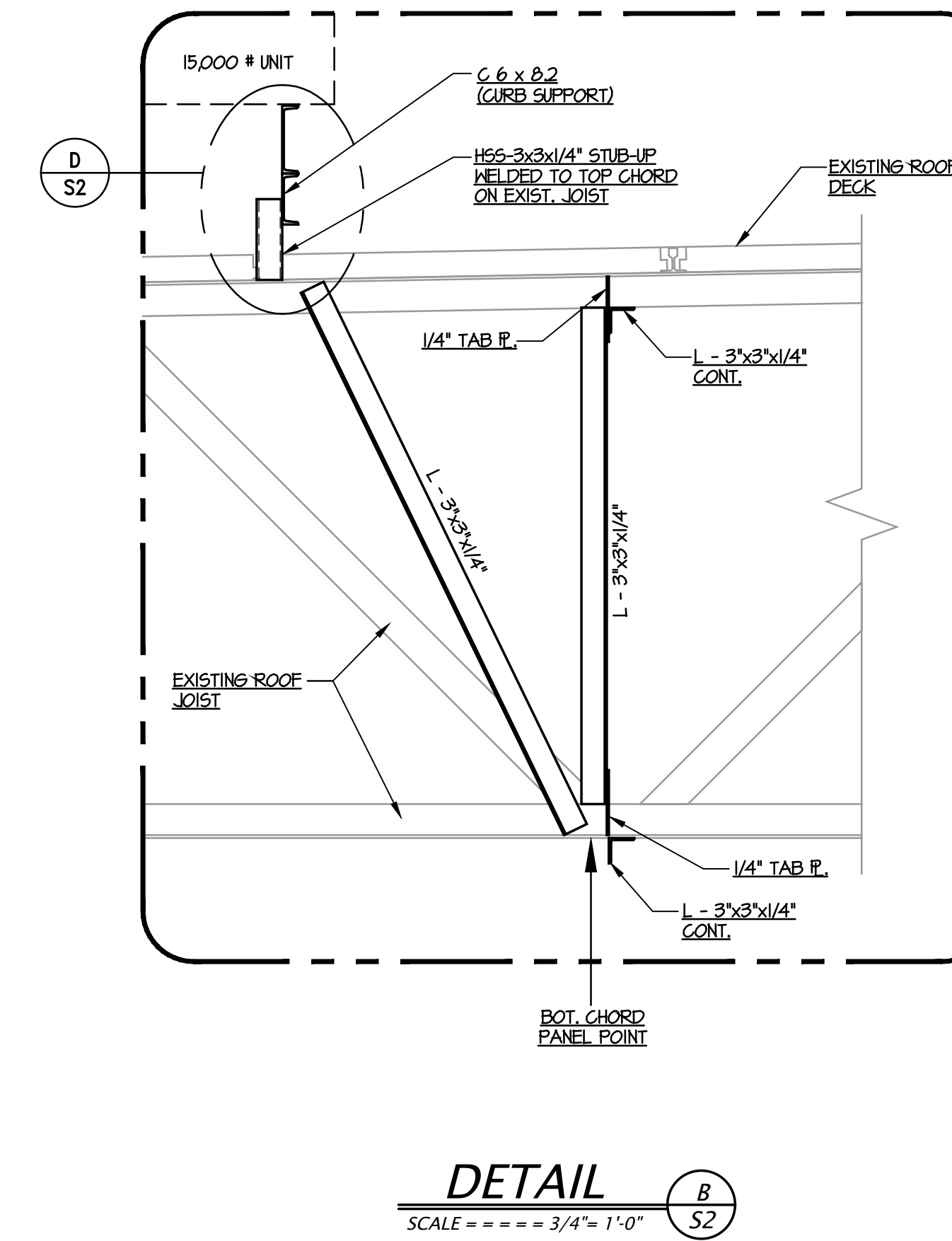
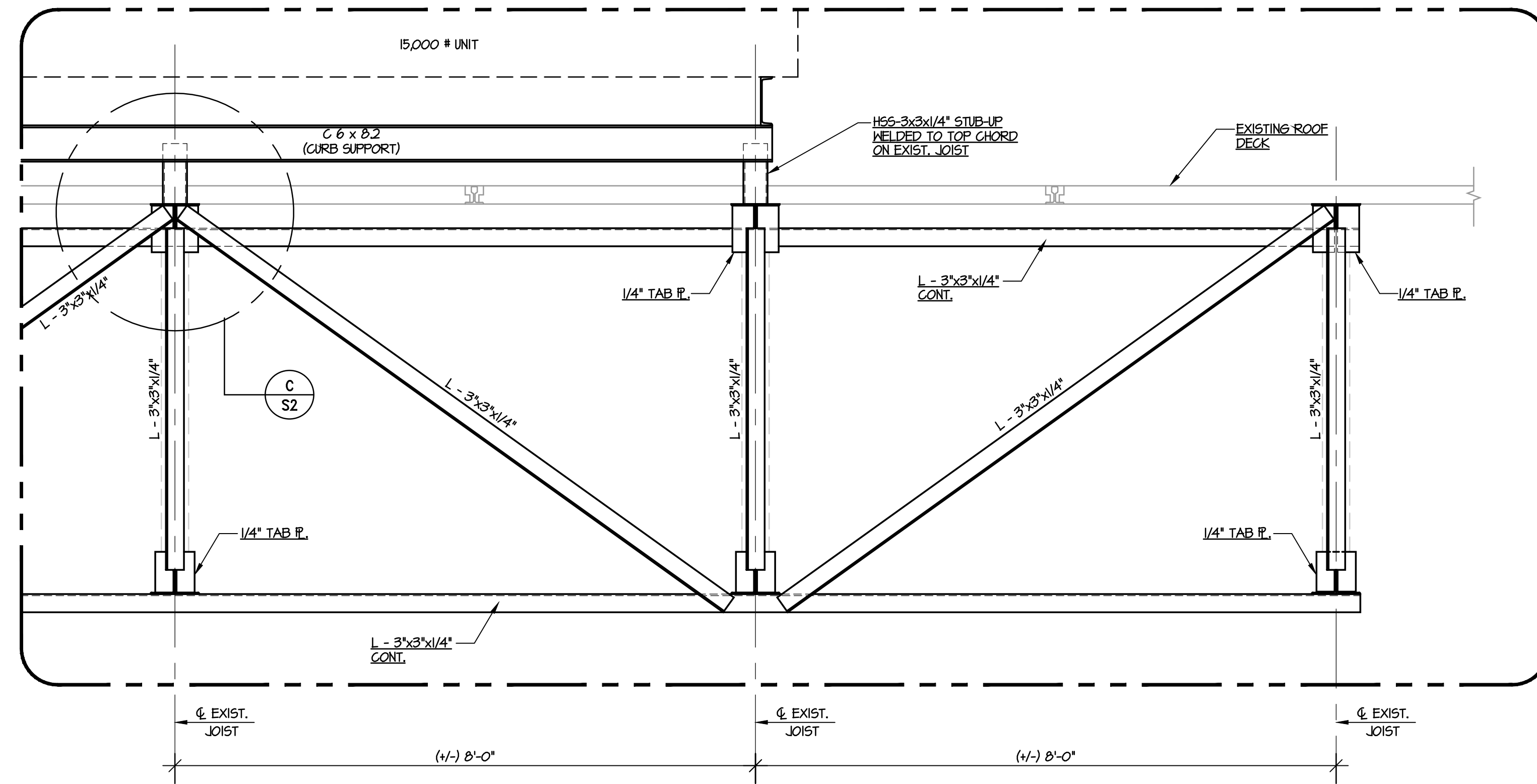
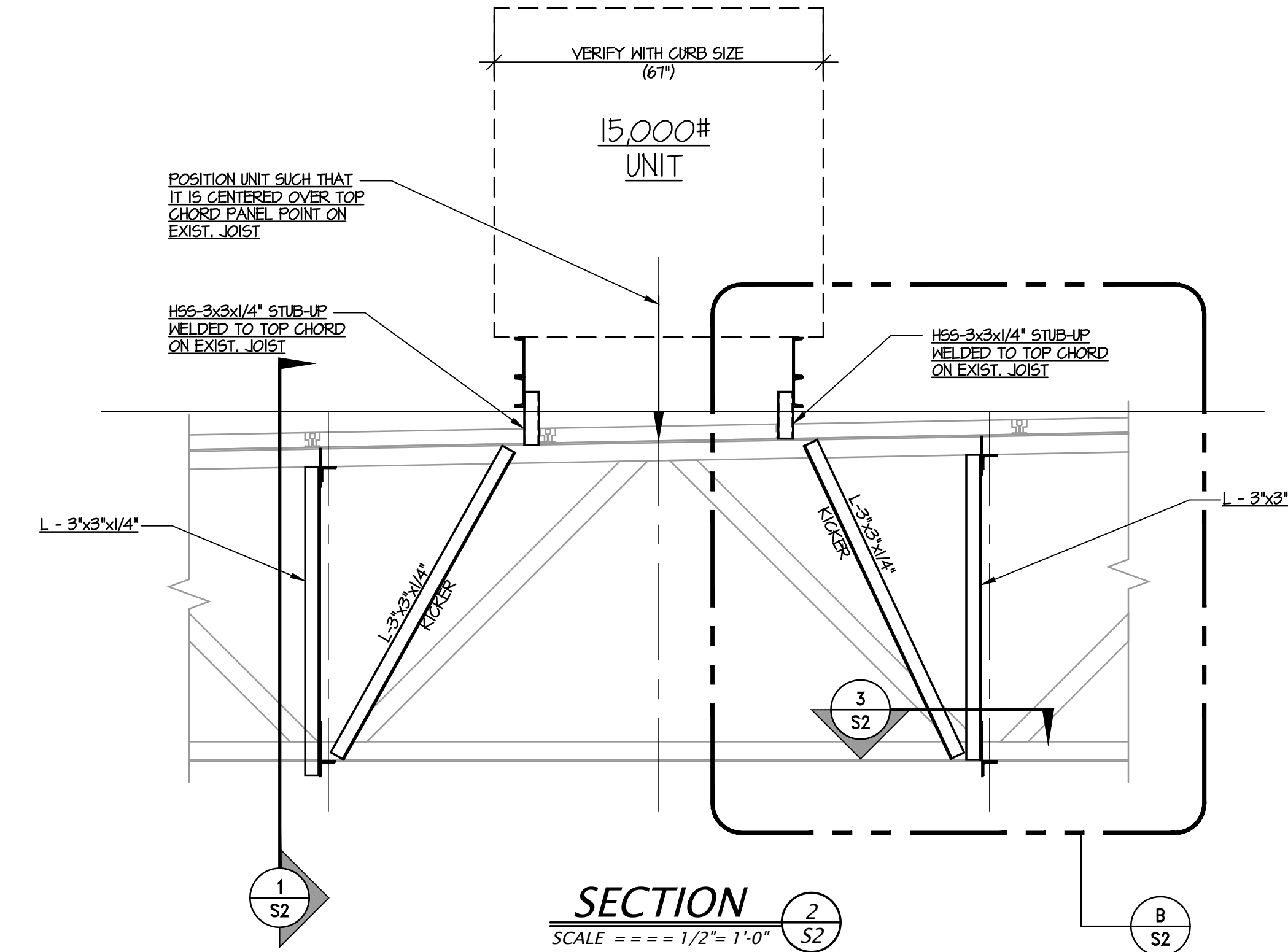
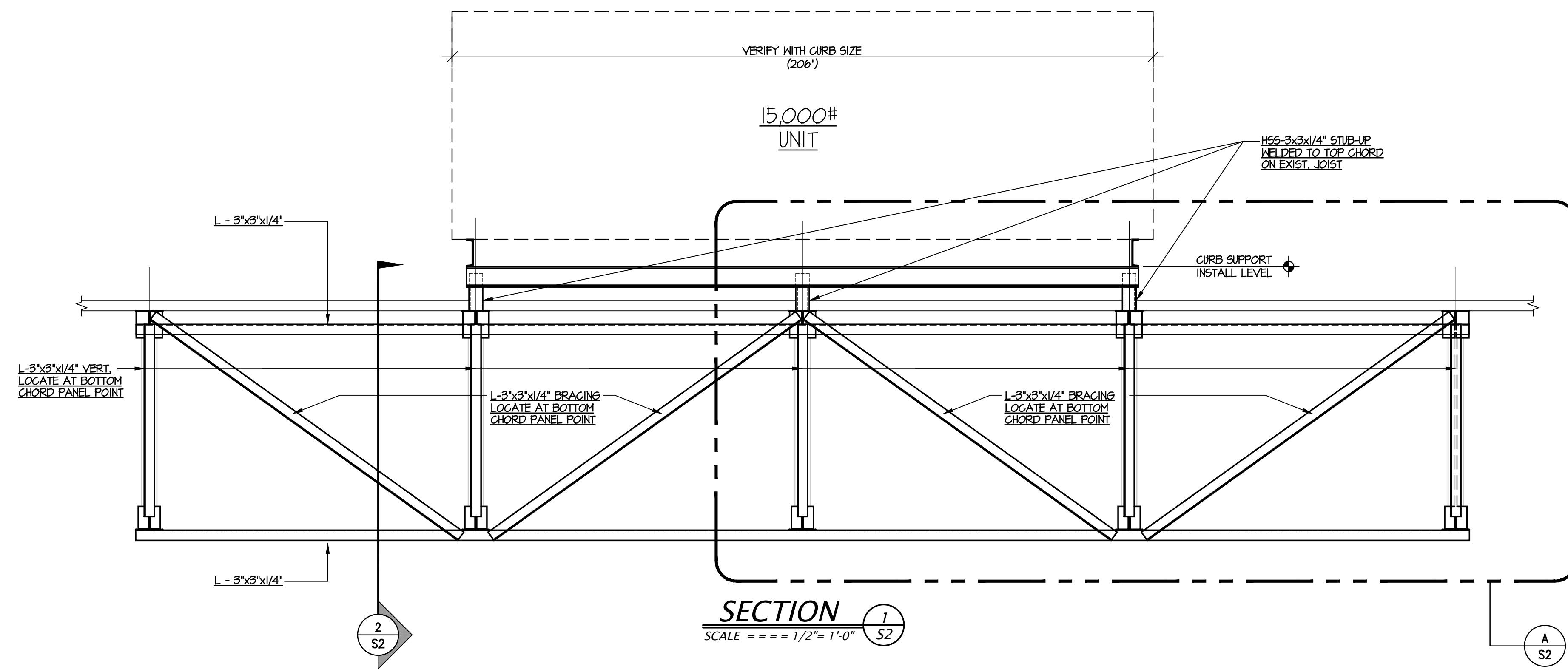
Weatherly
STRUCTURAL ENGINEERS
514 Alder Street, Myrtle Beach, South Carolina
Ph. 843.448.3428 - Fax. 843.445.9116

Project Number	WE-22-256
Sheet	S1

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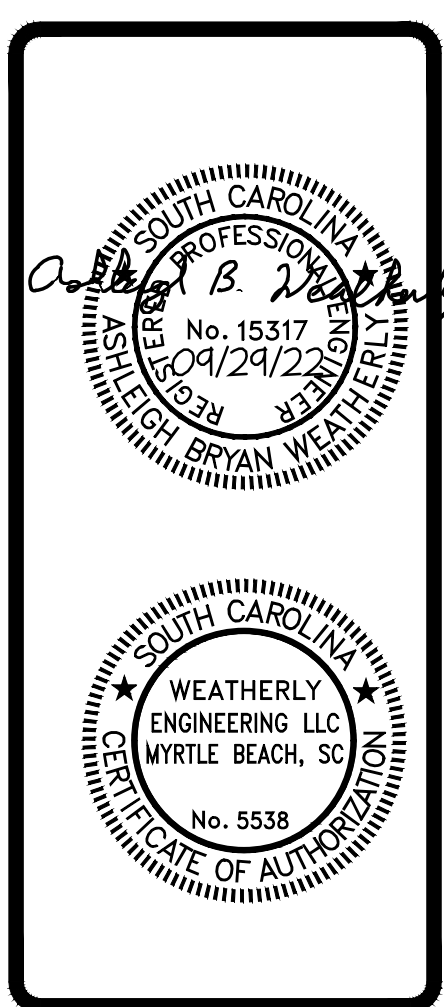
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Partner In Charge	ABW
Project Engineer	ABW
Drawn By	AGB
Date Drawn	09/29/22
Revisions	
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
Issue Date	



New HVAC Support For
Myrtle Beach High School
 MYRTLE BEACH, SOUTH CAROLINA

Weatherly
 STRUCTURAL ENGINEERS
 514 Alder Street, Myrtle Beach, South Carolina
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Project Number
WE-22-256
 Sheet
S2