



CAMERON COUNTY PURCHASING

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Brownsville, Texas 78520
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ADDENDUM # 4 - PAGE 1 of 7

DATE OUT: 11/09/23

RFP TITLE: DARRELL HESTER JUVENILE DETENTION CENTER SMOKE EVACUATION AND HVAC SYSTEMS UPGRADES

RFP NUMBER # 231001

DEADLINE: November 15, 2023 at 3:00 p.m.

(IN ORDER TO AVOID DISQUALIFICATION – ALL ADDENDUMS MUST BE SIGNED AND RETURNED BY DEADLINE AND INCLUDED IN THE SEALED BID PACKAGE SUBMITTED)

1- Response to request for clarifications during the last job-site visit meeting at Darrell B. Hester Juvenile Detention Center on Thursday, November 2nd, 2023.

Please see response to clarifications from Project Engineering Consultant Ethos Engineering.

Note:

This addendum shall become part of the RFP and all RESPONDERS/PARTICIPANTS shall be bound by its content. All aspects of the scope of work/services not covered herein shall remain the same.

Company Name _____ Phone # _____

Vendor Signature _____ Date _____

Must include and return with RFP package



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November 07, 2023

Darrell Hester Smoke Evacuation and HVAC Systems Upgrades – RFQ #231001

ADDENDUM NO. 4

A. PURPOSE AND INTENT

This addendum is issued for the purpose of modifying the plans for the project referenced above. This addendum shall become part of the contract and all contractors shall be bound by its content. All aspects of the specifications and drawings not covered herein shall remain the same. The General Conditions and the Special Conditions of the specifications shall govern all parts of the work and apply in full force to this addendum.

B. CLARIFICATIONS

1. Please clarify the number of copies to be submitted.

You are to submit one (1) original marked “Original,” One Copy marked “Copy,” and an electronic copy in Adobe PDF format in a seal envelope.

2. Please clarify the evaluation criteria to be submitted. On pg. 10 of 38, Item 10 states: “At a minimum, a prospective proposal must contain in the order presented here an outlined response to the following criteria.” However, Item 10 does not include the criteria. Item 11 on pg. 11 of 38 indicates four categories of criteria - Commercial Quality, Cost, Customer Service/Value Engineering and Functional/Technical Qualities with points totaling up to 100 points, but this section does not include specific questions. Information to be included in Tabs 1-10 is listed on pg. 12 of 38, but it does not reflect the four categories of criteria mentioned in Item 11.

The evaluation criteria is listed on page 11 of 38:

Commercial Quality (40 points)
Cost Factor (30 points)
Customer Service (20 points)
Functional & Technical (10 points)

3. Please clarify “MAG Guarantee associated with this offer” (pg. 13 of 38)

Clarification – means "Maximum Allowable Guarantee" proposal.

4. Please provide a checklist of items required to be submitted. In the outline on pgs. 13 and 14 of 38 it appears that in addition to requested narratives, bonds and schedule required in Tabs 1-8, Tab 9 should include Attachment A and Tab 10 is everything else required. Does this consist of Attachments B through I and an initialed copy of pgs 1-38 of the County's RFP?
This is an RFP for construction; therefore, the complete package is made out of different documents which are bonded (procurement front end documents, construction specs, drawings, general conditions, instructions to responders, standard agreement, notice of award, etc.) Participants are to submit complete RFP package with all attachments (forms) completed, as well as signatures, initials on pages, and any other required information.

5. In the control station of each pod, we are replacing the fire alarm systems. Are these systems able to function independently of each other? When the system is down during replacement is a fire watch required?
*Existing fire alarm systems to remain, relays and necessary accessories will be required to be provided to interface the fire alarm module with the motor starter coils. Refer to specification section 267210, A, 1.
"This specification describes the replacement to existing smoke control system and interface to existing addressable Fire Detection and alarm signaling system. The existing control panel is an intelligent device addressable, analog detecting, low voltage and modular, with digital communication techniques, in full compliance with all applicable codes and standards."
The owner will provide a fire watch; however, the contractor should notify the owner when the fire alarm system is shut down.*

6. It was mentioned during the site walk that due to the facility being occupied we will only be able to work in two Active dayrooms at a time and that the removed ceiling tiles in other areas will need to be replaced at the end of each day. Please confirm this is correct.
Areas with suspended ceilings being removed need to have ceiling tiles replaced at the end of the day. Areas with hard deck/plaster can remain open as needed for installation and inspection.

7. The plumbing specification 220010 section 1.2 paragraph c lists sewer piping to serve the new chiller plant. I only see domestic water service extending to the new chiller plant on the drawings. On the drawings I only see a makeup water line to the chiller plant. Please confirm there is no sewer tie-in or service required for this project.
No sanitary sewer connections or piping is required for this project. Plumbing for make-up water is required.

8. For the new electrical service and transformer has the utility provider been notified of this project and is there a ESID# or work order number we can reference for this new service?
Not yet; owner to start the process.

9. What is the height for the new fence and gates the encloses the New Chiller Plant.
New chain-link fence should be 8ft tall. See attached revised drawing under this same Addendum.

10. Please confirm if the backdraft damper schedule on Sheet M5.01 is intended to reflect the same motorized dampers shown on the plan drawings (Sheets M3.1, 3.2, 3.3, & 3.4). Additionally, please confirm if the smoke evacuation and make-up air dampers shown on the backdraft damper schedule on Sheet M5.01 are the same backdraft dampers called for under the schedule notes for the “smoke evacuation fan schedule” and “make-up air fan schedule” shown on the same sheet i.e. the fan manufacturer are to include as an accessory to the fan.
No, the backdraft dampers and motorized dampers are different from one another. The backdraft dampers will not be motorized. See attached sheet for clarification.

11. Detail 3/Sheet M6.02 shows both a backdraft damper and a separate control damper located within the ductwork for the smoke evacuation fans. Schedule note 2 on the “backdraft damper schedule” located on Sheet M5.01 show that backdraft dampers are to be supplied with actuators which includes the backdraft dampers for the smoke evacuation fans. Please confirm if both a motorized backdraft damper and a separate motorized control damper are required for the smoke evacuation fans.
No, one motorized and one non-motorized dampers should be supplied and installed as per drawings. Refer to sheet M6.02/03

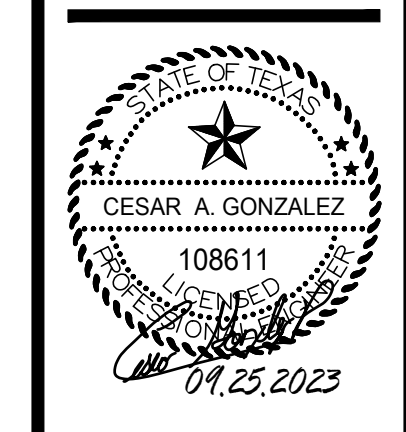
12. Sequence of operations on Detail 1 on sheet M6.02 states that the fire alarm system is to energize smoke evacuation fan and makeup air fans, however, schedule note A on Sheet M5.01 for the smoke evacuation and make up air schedules state that the DDC is responsible for the start/stop of these fans. Please confirm if it is the responsibility of the DDC or fire alarm system to start/stop the smoke evacuation and makeup air fans.
Fire alarm system to energize smoke evacuation fan and make up air fans, disable RTU, DOAS and Damper positions, etc. DDC Control shall be able to monitor the system only.

C. DRAWINGS

- 1) Sheet M4.02:
Added Keyed note. See attached sheet.
- 2) Sheet M5.01:
Revised schedule notes and names. See attached sheet.
- 3) Sheet M6.02:
Revised mechanical elevation damper. See attached sheet.



11/07/2023



GENERAL NOTES:

- ALL PIPING WELDS MUST BE WIRE-BRUSHED AND PAINTED A MINIMUM OF 12" ON EITHER SIDE OF WELD PRIOR TO INSULATION.
- AT LOWEST POINT IN PIPING ENTERING CHILLER BARRELS, PROVIDE 6" LONG DRAIN NIPPLES AND BALL VALVES FOR DRAINING NEW CHILLER.
- INSULATE PER SPECIFICATIONS ALL PIPING, VALVES, FITTINGS, PUMP BODIES AND COLD SURFACES THAT ARE CAPABLE OF GENERATING CONDENSATION. FIBERGLASS INSULATION WILL NOT BE ALLOWED.
- PRIOR TO INSTALLATION OF EQUIPMENT, VERIFY THAT MANUFACTURER RECOMMENDED AND CODE REQUIRED CLEARANCES ARE AVAILABLE.
- INSTALL PIPES AND DUCTS AS HIGH AS POSSIBLE TO ALLOW MAXIMUM POSSIBLE HEADROOM. MIN. 10' A.F.F. OR AS HIGH AS POSSIBLE.
- PROVIDE REFRIGERANT SIGNAGE, AND EMERGENCY CONTROLS AS PER SPECIFICATIONS AND AS PER REQUIREMENTS OF INTERNATIONAL MECHANICAL AND FIRE CODES.
- PROVIDE P/T TEST PORT WITHIN 6 INCHES OF EVERY PRESSURE GAGE AND THERMOWELL. SEE PIPING SCHEMATIC FOR LOCATIONS.
- REFER TO HYDRONIC PIPING SCHEMATICS FOR DETAILS AND PIPE SIZES.
- PROVIDE PIPE STANCHION SUPPORTS AT SPECIFIED INTERVALS, CLOSE TO ELBOWS AND VALVES. PROVIDE CONCRETE PADS AS REQUIRED. RE: STRUCTURAL.
- FOR ALL PIPING SUPPORTS LOCATED OUTDOORS, PROVIDE THE FOLLOWING:
 - POLYAMIDE PRIME COAT OF DEVOE PAINTS, DEVRAN 201.
 - INTERMEDIATE TOP COAT OF DEVOE PAINTS, DEVRAN 224HS.
 - TOP COAT OF DEVOE PAINTS, DEVTHANE 379.

BASE BID KEYED NOTES:

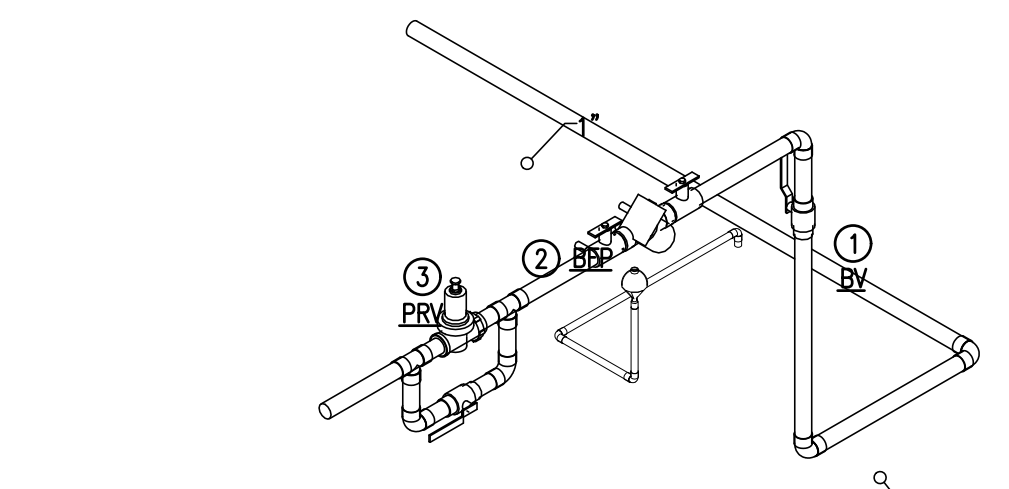
- CLEARANCE FOR ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER THIS AREA. REFER TO ELECTRICAL PLANS FOR EXACT LOCATION OF ELECTRICAL ROOMS (TYPICAL).
- PROVIDE ALUMINUM METAL JACKETING FOR ALL CHW PIPING EXPOSED OUTDOORS. SEE SPECIFICATIONS.
- PROVIDE HYDRONIC PIPING WITH AUTOMATIC ISOLATION VALVES, THERMOWELLS, PRESSURE GAUGES, THERMISTERS, FLOW SWITCHES, MANUAL VALVES, ETC. PROVIDE PIPING SPECIALTIES SUCH AS AIR SEPARATOR, EXPANSION TANK, MAKE UP WATER, CHEMICAL POT FEEDER, ETC. SEE PIPING SCHEMATIC AND ASSOCIATED DETAILS.
- PROVIDE AIR SEPARATOR, EXPANSION TANK AND CHEMICAL POT FEEDER. INSTALL ON 4" HOUSEKEEPING CONCRETE PADS PROVIDED BY STRUCTURAL. PADS SHALL BE 6" LARGER ON ALL SIDES FOR ALL EQUIPMENT EXCEPT CHILLERS. REFER TO STRUCTURAL DRAWINGS.
- PROVIDE CHILLER AS SCHEDULED. INSTALL CHILLER ON 6" HOUSEKEEPING CONCRETE PAD PROVIDED BY STRUCTURAL. PAD SHALL BE 12" LARGER ON ALL SIDES FOR CHILLERS. REFER TO STRUCTURAL DRAWINGS.
- PROVIDE HYDRONIC PUMP AS SCHEDULED.
- PIPE SUPPORTS AND STANCHIONS SHALL BE HOT DIPPED GALVANIZED AND PAINTED. BASE PLATE SHALL BE INSTALLED ON A 4" CONCRETE PAD. (TYPICAL)
- PROVIDE ISOLATION VALVES TO SERVE CENTRAL PLANT.
- PROVIDE VFD PER SCHEDULE WITH NEMA-1 ENCLOSURE FOR MOUNTING INDOORS. (TYPICAL)
- LOCATE DDC PANEL AT THIS APPROXIMATE LOCATION. REFER TO SPECIFICATIONS FOR DDC CONTROLS AND SEQUENCES OF OPERATION.
- PROVIDE MAKE UP WATER LINE 1" TO SERVE EXPANSION TANK. CONNECT TO BACKFLOW PREVENTER AND PRESSURE RELIEF VALVE. REFER TO "MAKE-UP DETAIL" ON DETAIL SHEET. COORDINATE WITH PLUMBING.
- COORDINATE WITH WATER TREATMENT COMPANY TO ACHIEVE SPECIFIED WATER CONDITIONING. PROVIDE NEW FILTRATION SYSTEM AND DYE IN CHILLED WATER. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- PIPING UNDER CANOPY SHALL BE SUPPORTED FROM GROUND WITH PIPE SUPPORTS (NOT SHOWN FOR CLARITY). PROVIDE PIPE SUPPORTS AS PER SPECIFICATIONS. SUBMIT SHOP DRAWINGS WITH PIPE SUPPORT LOCATIONS FOR APPROVAL.
- PROVIDE CONNECTIONS FOR EMERGENCY CHILLER TIE-IN.
- PROVIDE FLOW METER AS PER SCHEMATICS AND SPECIFICATIONS. INSTALL AS PER MANUFACTURER RECOMMENDATIONS.
- PROVIDE NEW 8FT. TALL CHAIN-LINK FENCE AS PER SPECIFICATIONS AND DRAWINGS. CONTRACTOR SHALL INSTALL BOTTOM LOCKING DOUBLE WALL SLATS. FLAT TUBULAR SHAPE WITH INSIDE REINFORCED LEGS. COORDINATE FINAL SLAT COLOR AND FINISH WITH OWNER.

ALTERNATE #1 MECHANICAL KEYED NOTES:

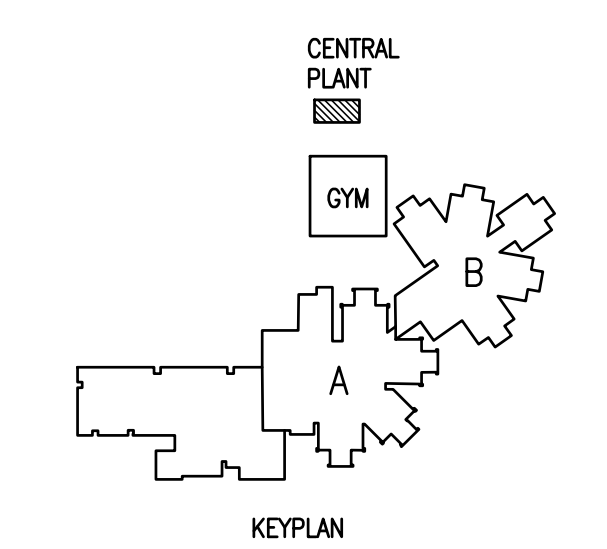
- PROVIDE CHILLER AS SCHEDULED. INSTALL CHILLER ON 6" HOUSEKEEPING CONCRETE PAD PROVIDED BY STRUCTURAL. PAD SHALL BE 12" LARGER ON ALL SIDES FOR CHILLERS. REFER TO STRUCTURAL DRAWINGS.
- PROVIDE CONNECTIONS FOR FUTURE CHILLER TIE-IN.
- PROVIDE ALUMINUM METAL JACKETING FOR ALL CHW PIPING EXPOSED OUTDOORS. SEE SPECIFICATIONS.

PLUMBING KEYED NOTES:

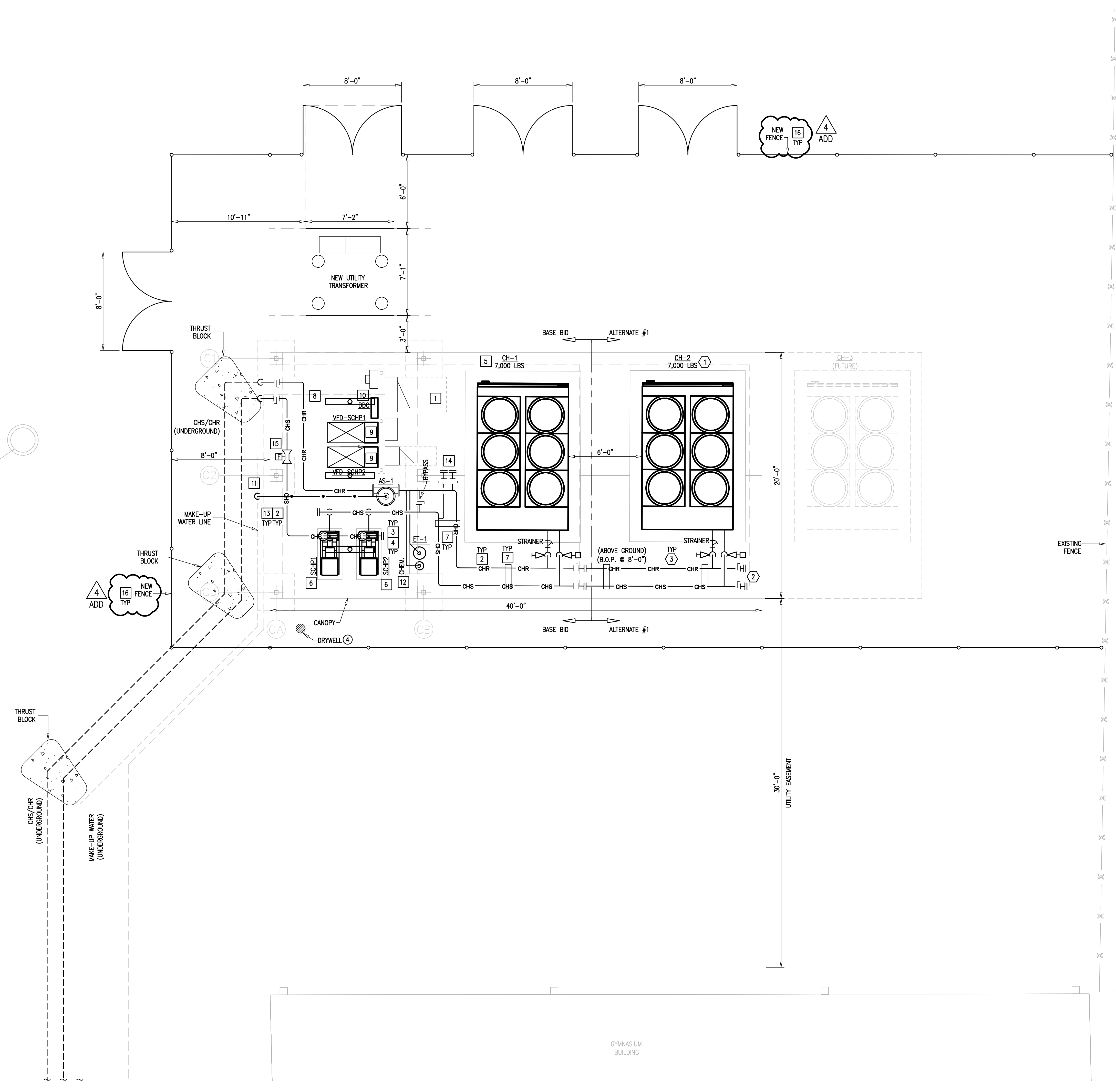
- PROVIDE BRONZE ISOLATION BALL VALVE.
- PROVIDE A RPZ TYPE BACKFLOW PREVENTER (BFP) WILKINS MODEL #975XL2 OR APPROVED EQUAL. INSTALL MOUNTED ON SUPPORTS IN WATER LINE SERVING MAKE UP WATER. PROVIDE A MINIMUM OF 3" CLEARANCE IN FRONT OF BFP FOR TESTING AND SERVICE. PROVIDE DRAIN RECEPTOR UNDER BFP AND RUN COPPER LINE TO NEARBY DRY WELL. SEE ASSOCIATED DETAIL ON DETAIL SHEET FOR CONCRETE PIPE SUPPORT AND BFP.
- PROVIDE A PRESSURE REDUCING VALVE (PRV) WATTS SERIES LFUSB OR APPROVED EQUAL. REFER TO ASSOCIATED DETAIL ON DETAILS SHEET.
- PROVIDE DRYWELL TO SERVE BACK-FLOW PREVENTER DRAIN LINE. SEE ASSOCIATE DETAIL ON DETAIL SHEET.



02 MAKE-UP WATER LINE DETAIL
 SCALE: NOT TO SCALE

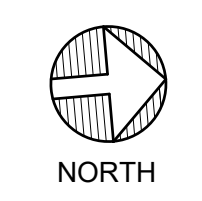


KEYPLAN



LIGHT POLE ON CONCRETE BASE

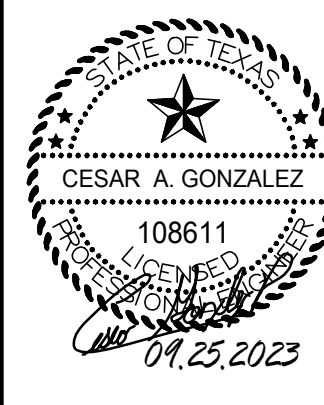
DARRELL HESTER
01 ENLARGED CENTRAL PLANT MECHANICAL PLAN
 SCALE: 1/4" = 1'-0"



DARRELL HESTER JUVENILE DETENTION CENTER
 SMOKE EVACUATION AND HVAC SYSTEMS UPGRADES

SAN BENITO





CONTROL DAMPER SCHEDULE

Table with columns: MARK, EQUIPMENT, AIRFLOW, DUCT SIZE, TEMPERATURE, MANUFACTURER & MODEL NUMBER, NOTES. Lists damper specifications for various rooms like RTU-8, MD-MIA-1A, etc.

NOTES:
1. DAMPER SHALL BE GALVANIZED, TWO POSITION, SPRING RETURN.
2. IN STRICT COORDINATION WITH CONTRACTOR, FIRE ALARM CONTRACTOR AND ELECTRICAL CONTRACTOR...

PUMP SCHEDULE

Table with columns: MARK, LOCATION, QTY, TYPE, MANUFACTURER & MODEL NUMBER, GPM, HEAD (FT), MIN. HP, MIN. EFF., RPM, ELECTRICAL, NOTES. Lists pump specifications for SCHWP-1, 2.

NOTES:
1. PROVIDE NON-OVERLOADING, PREMIUM EFFICIENCY, TEFC MOTORS, RATED FOR VFD DUTY.
2. PROVIDE COUPLINGS RATED FOR VFD DUTY, FALK T31 SPACER TYPE.

EXPANSION TANK SCHEDULE

Table with columns: MARK, SERVICE, TYPE, ACCEPTANCE VOLUME GALLONS, (DIAMETER) X (HEIGHT), LOCATION, MANUFACTURER & MODEL NUMBER OR EQUAL, NOTES. Lists expansion tank specifications for ET-1.

NOTES:
1. PROVIDE LINE SIZE AIR SEPARATOR, BELL AND GOSSETT ROLARITROL, RL-6F FOR 8" CONNECTION.
2. PROVIDE FILTER FEEDER NEPTUNE MODEL FT-F OR APPROVED EQUAL.

AIR COOLED CHILLER SCHEDULE

Table with columns: MARK, NOMINAL CAPACITY, AMBIENT FLOW, MAX PD, EWT, LWT, # OF COMPRESSORS, MIN % ELEC., I/PLV, FULL LOAD EER, SOUND POWER, DIMENSIONS, OPERATING WEIGHT, MANUFACTURER. Lists chiller specifications for CH-1, CH-2.

NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR CHANGES TO DESIGN RESULTING FROM SELECTION OF OTHER MANUFACTURERS EQUIPMENT.
2. LISTED CAPACITY BASED ON ACTUAL CONDITIONS LISTED ABOVE. EFFICIENCIES LISTED AT ARI CONDITIONS.

HYDRONIC - DOAS ROOF TOP UNIT SCHEDULE

Table with columns: MARK, UNIT, MOUNTING, TOTAL CFM, ESP, ELECT. MOTOR, MIN. #/HP, EAT, CHILLED WATER COOLING COIL, ELEC HEATING (EAT 40F), WEIGHT, NOTES, MODEL NUMBER. Lists DOAS unit specifications for DOAS-1, DOAS-2.

NOTES:
1. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL". SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS AND SUBSTITUTION PROCEDURES.
2. ESP IS STRICTLY EXTERNAL STATIC PRESSURE, AND DOES NOT INCLUDE FILTER, COIL, CABINET LOSSES.

EXHAUST FAN SCHEDULE

Table with columns: MARK, SERVING, TYPE, STATUS, ELECTR. VPH, DRIVE, CFM, INPUT WATTS, MOTOR HP, RPM, E.S.P. IN H2O, SOUND IN SONES, WEIGHT (LBS), MANUFACTURER, MODEL NUMBER, CONTROL NOTES, NOTES. Lists exhaust fan specifications for various rooms like EF-1A, EF-2A, etc.

NOTES:
1. PROVIDE FACTORY MOUNTED DISCONNECT.
2. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL". REFER TO SPECIFICATIONS.
3. PROVIDE FIELD-INSTALLED FAN SPEED CONTROLLER, COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.

SMOKE EVACUATION FAN SCHEDULE

Table with columns: MARK, SERVING, TYPE, STATUS, ELECTR. VPH, DRIVE, CFM, INPUT WATTS, MOTOR HP, RPM, E.S.P. IN H2O, SOUND IN SONES, WEIGHT (LBS), MANUFACTURER, MODEL NUMBER, CONTROL NOTES, NOTES. Lists smoke evacuation fan specifications for SEF-1A, SEF-2A, etc.

NOTES:
1. PROVIDE FACTORY MOUNTED DISCONNECT.
2. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL". REFER TO SPECIFICATIONS.
3. PROVIDE FAN WITH FIELD INSTALLED ALL ALUMINUM BACKDRAFT DAMPER.

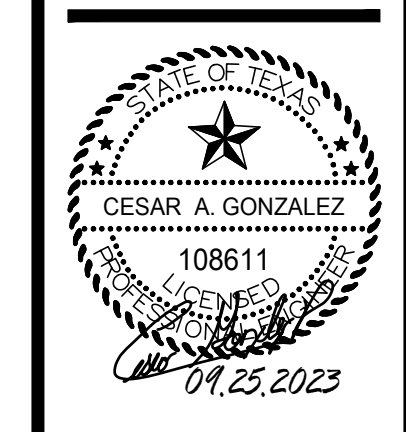
CONTROL NOTES:
A. SMOKE EVACUATION FANS WILL BE CONTROLLED (OFF-ENABLED, OPENED-CLOSED) BY THE FIRE ALARM SMOKE EVACUATION SYSTEM.
DDC WILL SIMPLY MONITOR STATUS OF THE FANS AND DAMPERS, AND REPORT IT ON THE GRAPHICS SCREENS. REFER TO CONTROLS SEQUENCES.

MAKE-UP AIR FAN SCHEDULE

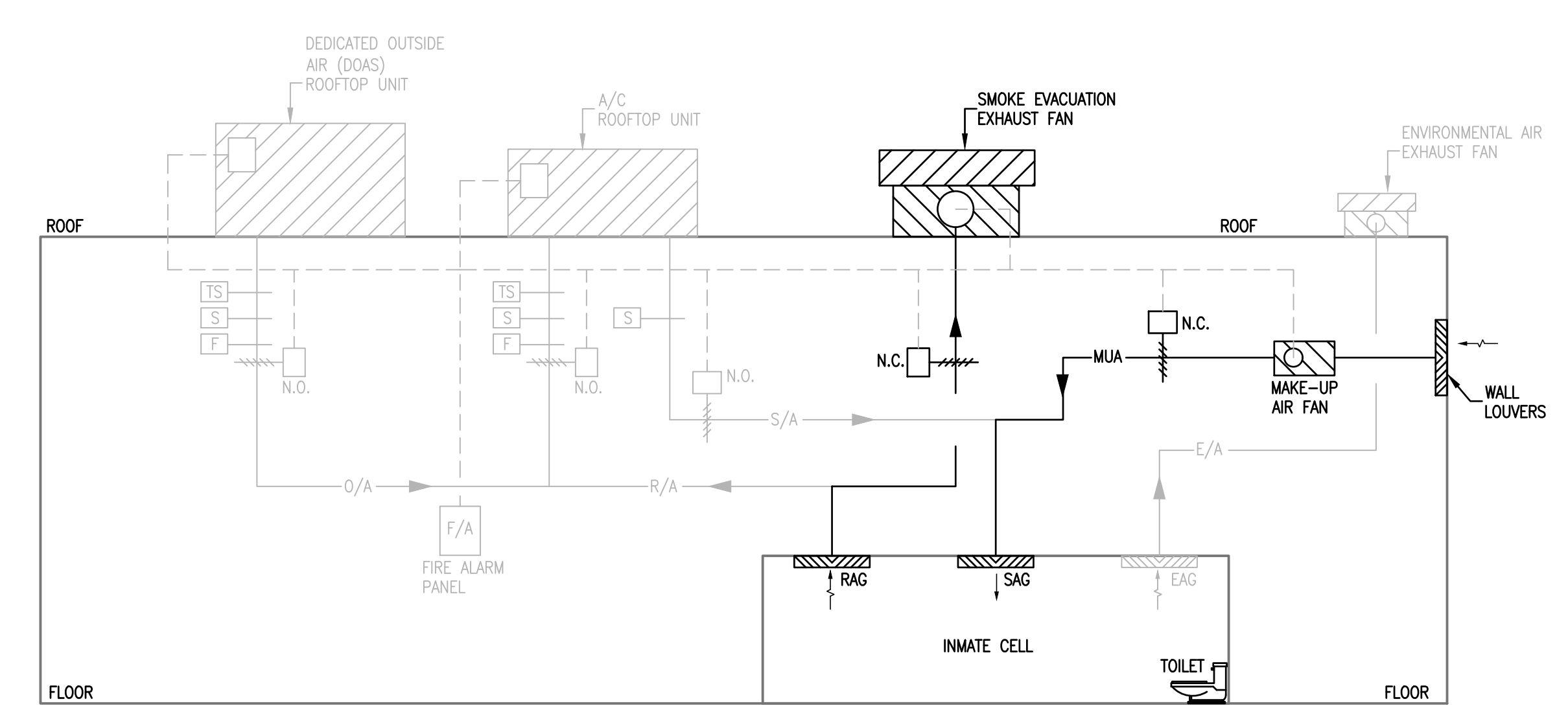
Table with columns: MARK, SERVING, TYPE, STATUS, ELECTR. VPH, DRIVE, CFM, INPUT WATTS, MOTOR HP, RPM, E.S.P. IN H2O, SOUND IN SONES, WEIGHT (LBS), MANUFACTURER, MODEL NUMBER, CONTROL NOTES, NOTES. Lists make-up air fan specifications for MUA-1A, MUA-2A, etc.

NOTES:
1. PROVIDE FACTORY MOUNTED DISCONNECT.
2. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL". REFER TO SPECIFICATIONS.
3. PROVIDE FIELD-INSTALLED FAN SPEED CONTROLLER, COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.

CONTROL NOTES:
A. MAKE-UP AIR FANS WILL BE CONTROLLED (OFF-ENABLED, OPENED-CLOSED) BY THE FIRE ALARM SMOKE EVACUATION SYSTEM.
DDC WILL SIMPLY MONITOR STATUS OF THE FANS AND DAMPERS, AND REPORT IT ON THE GRAPHICS SCREENS. REFER TO CONTROLS SEQUENCES.



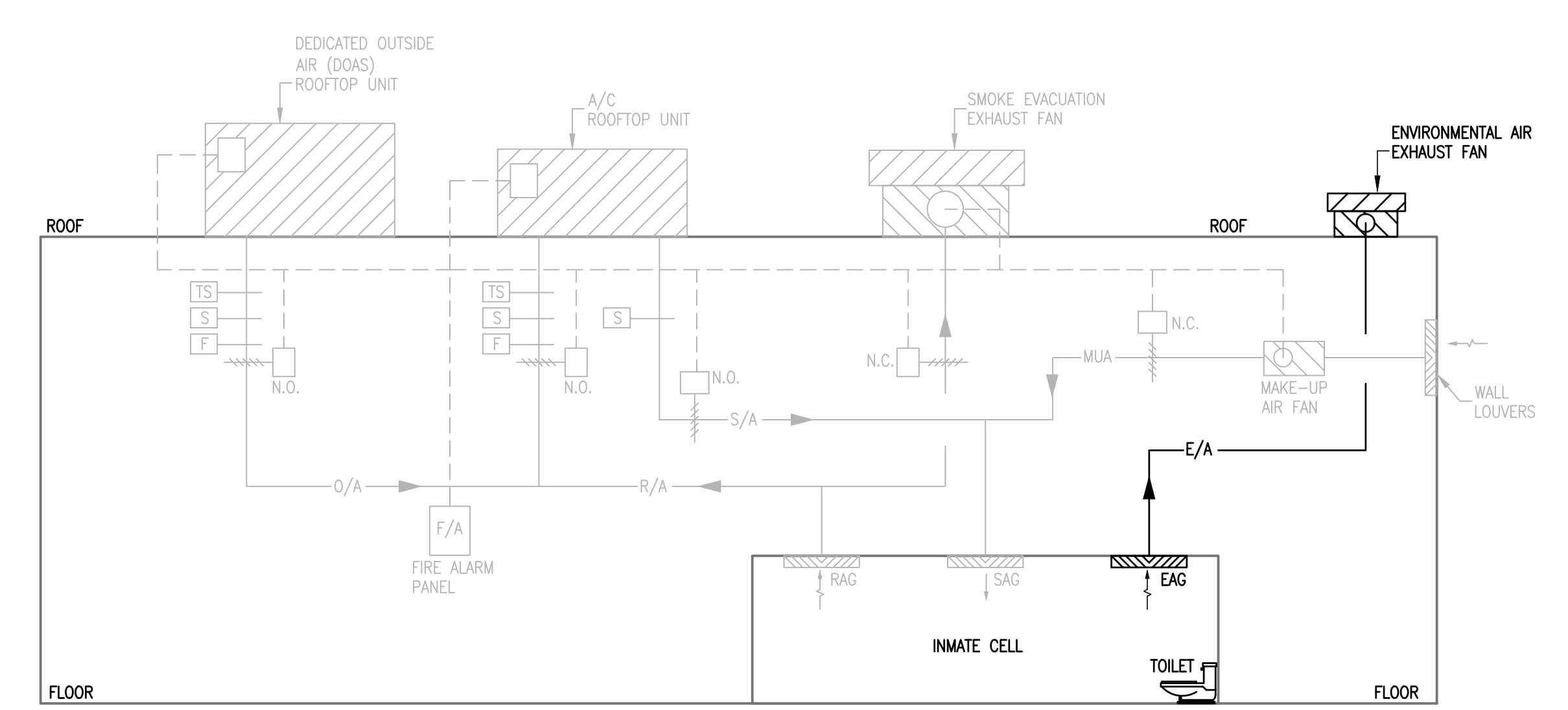
DARRELL HESTER JUVENILE DETENTION CENTER
 SMOKE EVACUATION AND HVAC SYSTEMS UPGRADES



CONTROL SEQUENCE:
 A SIGNAL FROM THE FIRE ALARM CONTROL PANEL SHALL: DE-ENERGIZE RTU, CLOSE S/A & R/A DAMPERS, OPEN MUA & EXHAUST DAMPERS, ENERGIZE SMOKE EXHAUST AND MAKE-UP AIR FANS. REFER TO DIVISION 26 FIRE ALARM SPECIFICATIONS.

LEGEND	
[TS]	REMOTE TEMPERATURE SENSOR DUCT
[S]	SMOKE DETECTOR
[F]	FIRE STAT
N.O.	MOTORIZED DAMPER (NORMALLY OPEN)
N.C.	MOTORIZED DAMPER (NORMALLY CLOSED)
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
MUA	MAKE-UP AIR

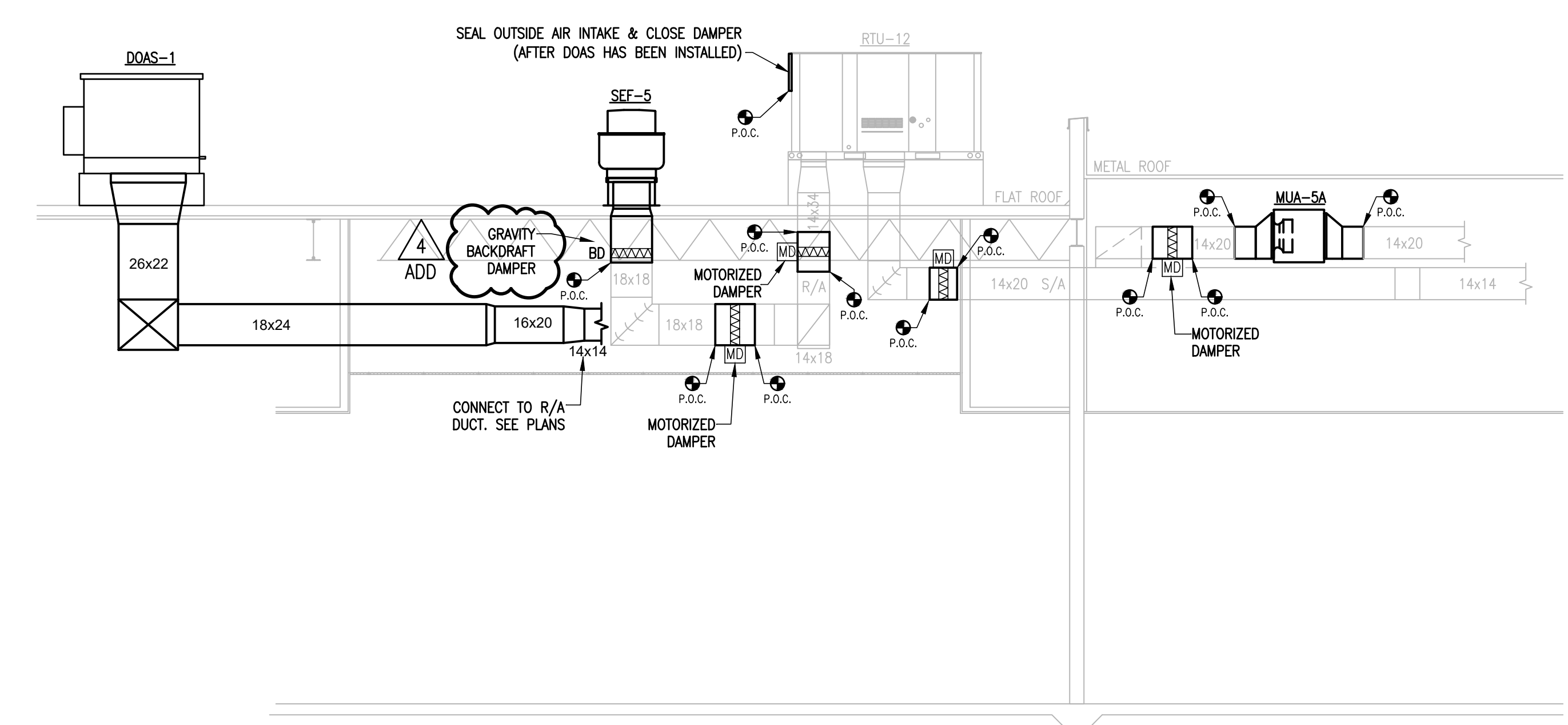
FLOW DIAGRAM-
 SMOKE EVACUATION SYSTEM
 01
 SCALE: NOT TO SCALE



CONTROL SEQUENCE:
 A SIGNAL FROM THE FIRE ALARM CONTROL PANEL SHALL: DE-ENERGIZE RTU, CLOSE S/A & R/A DAMPERS, OPEN MUA & EXHAUST DAMPERS, ENERGIZE SMOKE EXHAUST AND MAKE-UP AIR FANS. REFER TO DIVISION 26 FIRE ALARM SPECIFICATIONS.

LEGEND	
[TS]	REMOTE TEMPERATURE SENSOR DUCT
[S]	SMOKE DETECTOR
[F]	FIRE STAT
N.O.	MOTORIZED DAMPER (NORMALLY OPEN)
N.C.	MOTORIZED DAMPER (NORMALLY CLOSED)
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
MUA	MAKE-UP AIR

FLOW DIAGRAM-
 ENVIRONMENTAL AIR EXHAUST SYSTEM
 02
 SCALE: NOT TO SCALE



TYPICAL
 MECHANICAL ELEVATION
 03
 SCALE: 1/4" = 1'-0"