FA301026R0010
Attachment #2

REPAIR STENNIS HALL B1002

KEESLER AFB, BILOXI, MISSISSIPPI

PROJECT NUMBER: MAHG 17-1095
EGH PROJECT # 22-028

U.S. AIR FORCE

ISSUED FOR CONSTRUCTION
REV. 7/1/24

ARCHITECT

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FIRE PROTECTION:
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MECHANICAL, ELECTRICAL & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP

REGISTERED ARCHITECT 4202 STATE OF MISSISSIPPI
4-26-24

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — BILOXI — MISSISSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

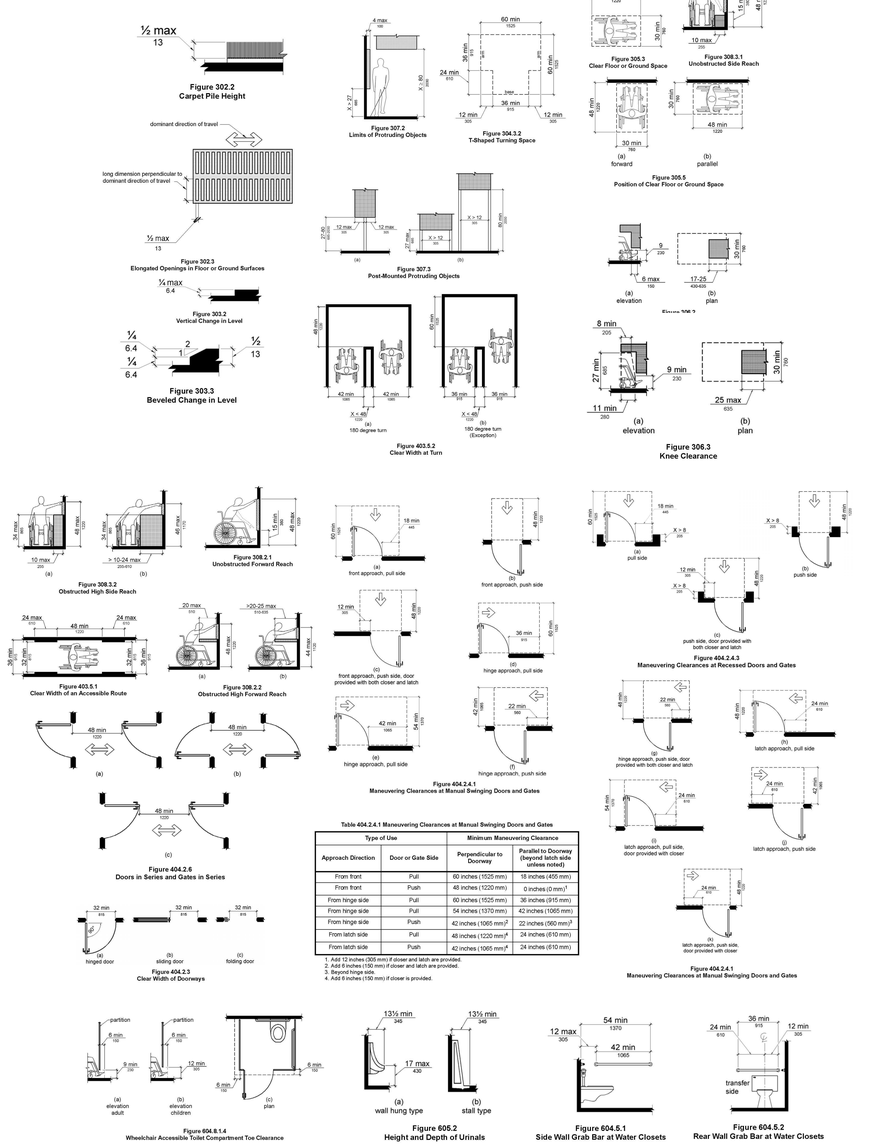
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)		RECOMMENDED: (Chief of Engineering)	FACILITY NUMBER: B1002
A. MARASCA		G. REED	DRAWING NUMBER:
DRAWN: HAS	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: TITLE SHEET	G000
CHECKED: KLK	DATE: 2/20/24		SHEET 1 OF 74

ELEY GUILD HARDY ARCHITECTS

ADA / ABA DIAGRAMS GENERAL NOTES

THE OVERALL INTENT OF THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT IS FOR IT TO BE IN FULL COMPLIANCE WITH THE 2010 ADA/ABA IN ITS ENTIRETY. ITEMS, DIMENSIONS, AND CLEARANCES SHOWN ON THESE DIAGRAMS ARE TYPICAL PROJECT CONDITIONS AND ARE NOT TO BE ALL INCLUSIVE, NOR MAY THEY ALL BE APPLICABLE FOR THIS SPECIFIC PROJECT. THEY ARE SHOWN FOR GENERAL REFERENCE PURPOSES ONLY DEPICTING THE MINIMUM REQUIREMENTS ALLOWED BY THE 2010 ADA/ABA STANDARDS FOR ACCESSIBLE DESIGN (ADA/ABA). THESE DRAWINGS DO NOT REPRESENT A COMPLETE LISTING OF GUIDELINES OR STANDARDS NECESSARY TO MEET THE 2010 ADA/ABA ACCESSIBILITY CODE REQUIREMENTS FOR THIS PROJECT. IF A SITUATION ARISES DURING CONSTRUCTION WHERE A DISCREPANCY OCCURS BETWEEN A DESIGNED DETAIL OR A BUILT CONDITION AND THE MINIMUM REQUIREMENTS SET FORTH BY THESE DIAGRAMS OR ANY DIAGRAM IN THE 2010 ADA/ABA, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CONTRACTING OFFICER TO ASSIST WITH MAKING A RESOLUTION PRIOR TO MOVING FORWARD WITH CONSTRUCTION OF THE AFFECTED AREA.



ABBREVIATIONS

&	AND	EA	EACH	L	LENGTH, LONG	R/RAD	RADIUS
@	AT	EDF	ELECTRIC DRINKING FOUNTAIN	LAM	LAMINATED(D)	RA	RETURN AIR
∠	ANGLE	EF	EXHAUST FAN	L.A.T.	LAY-IN ACOUSTICAL CEILING	RB	RUBBER BASE
A/C	AIR CONDITIONING	EFC	EACH FACE	LAV	LAVATORY	RD	ROOF DRAIN
ACT	ACOUSTICAL CEILING TILE	EJ	EXPANSION JOINT	LF	LINEAR FEET	REF	REFERENCE
ADDT'L	ADDITIONAL	ELEC.	ELECTRICAL	LEG	LEG	REINF	REINFORCED
ADJ	ADJUSTABLE	EL/ELEV	ELEVATION	LP	LIGHT POLE	REQ'D	REQUIRED
AF	ACCESS FLOORING	EMBED	EMBEDDED			RET	RETURN
AFD	AUTOMATIC FIRE DAMPER	ENGR.	ENGINEER	MA	MIXED AIR	RM	ROOM
AFF	ABOVE FINISH FLOORING	ENT	ENTERING/ENTRY	MAS.	MASONRY	RPM	REVOLUTIONS PER MINUTE
ALUM	ALUMINUM	EOP	EXISTING OVERHEAD PRIMARY	MAT'L	MATERIAL	RTU	ROOF-TOP UNIT
ALT	ALTERNATE	EQ	EQUAL	MAX	MAXIMUM		
ARCH	ARCHITECT	EQUIP.	EQUIPMENT	MECH	MECHANICAL	SA	SUPPLY AIR
		ES	EXPOSED STRUCTURE	MFR/MFGR	MANUFACTURER	SAN	SANITARY
BET	BETWEEN	ESP	EXTERNAL STATIC PRESSURE	MH	MANHOLE	SCWD	SOLID CORE WOOD
BIT	BITUMEN	EXH	EXHAUST	MIN	MINIMUM	SD	SPLITTER DAMPER
BJ	BAR JOIST	EXPAN	EXPANSION	MISC	MISCELLANEOUS	SECT	SECTION
BLDG	BUILDING	EXT	EXTERIOR	M.O.	MANSONRY OPENING	SF	STOREFRONT/SQUARE FEET
BLK	BLOCK			MOD.	MODIFIED	SHT	SHEET
BLK'G	BLOCKING	FA	FIRE ALARM	MRV	MOISTURE RELEASE VENT	SIM	SIMILAR
BLT	BUILT	FAC.	FIRE ALARM CABINET	M.T.	METAL THRESHOLD	SL	SLOPE
BM	BEAM	FD	FLOOR DRAIN	MTD	MOUNTED	SP	SPACING
BO	BOTTOM OF	FAR	FIRE ALARM REMOTE	MTL	METAL	SPEC	SPECIFIED/SPECIFICATIONS
BOT	BOTTOM	FE	FIRE EXTINGUISHER			SQ	SQUARE
B.R.	BACKER ROD	FEC	FIRE EXTINGUISHER CABINET	N/A	NOT APPLICABLE	SS	STAINLESS STEEL
		FFE	FINISH FLOOR ELEVATION	NF	NATURAL FINISH	STD	STANDARD
CAP	CAPACITY	FH	FIRE HYDRANT	NIC	NOT IN CONTRACT	STL	STEEL
CB	CATCH BASIN	FIN	FINISH	NO./#	NUMBER	STRUCT.	STRUCTURAL
C/C	CENTER TO CENTER	FLR	FLOOR	NOM	NOMINAL	SUP	SUPPLY
CCTV	CLOSED CIRCUIT ELEVATION	F.O.C.	FACE OF CONCRETE	NR	NARROW RIB	SUSP	SUSPENDED
CFH	CUBIC FEET/HOUR	F.O.B.	FACE OF BRICK	NS	NOT SHOWN	SYN	SYNTHETIC
CFM	CUBIC FEET/MINUTE	FR	FRAME	NTS	NOT TO SCALE		
CI.	CAST IRON	FS	FLOW SWITCH			T&B	TOP AND BOTTOM
C.J.	CONTROL JOINT	FT	FOOT/FEET	OA	OUTSIDE AIR	TBM	TEMPORARY BENCH MARK
CL	CLEAR	FTG	FOOTING	O.C.	ON CENTER	TEL	TELEPHONE
CLG	CEILING			OCEW	ON CENTER EACH WAY	T&G	TOUNGE AND GROOVE
CLO	CLOSET	GA	GAUGE	OH	OVERHEAD	TH/THK	THICK
CLR	COLOR	GALV	GALVANIZED	OPN'G	OPENING	THRESH.	THRESHOLD
CMU	CONCRETE MASONRY UNIT	G.C.	GENERAL CONTRACTOR	OPP.	OPPOSITE	TLT	TOILET
CONTR.	CONTRACTOR	G.F. CMU	GROUND FACE CMU	OZ.	OUNCE	T.O.	TOP OF
COL	COLUMN	GL	GLASS			T.O.B.	TOP OF BEAM
COMP	COMPRESSION/COMPRESSED	GPM	GALLONS PER MINUTE	+/-,±	PLUS OR MINUS	TOS	TOP OF STRUCTURE
CONC	CONCRETE	GYP.BD	GYPSUM BOARD	P/PT	PAINT	TP	TOILET PAPER HOLDER
COND	CONDENSATE			PART'N	PARTITION	TRTD	TREATED
CONST	CONSTRUCTION	HB	HOSE BIBB	PDI	WATER HAMMER ARRESTOR	TYP	TYPICAL ALL SIMILAR
CONT	CONTINUOUS	HC	HANDICAP	PF	PREFINISH(ED)		CONDITIONS
CPLING	COUPLING	HD/WR	HARDWARE	PL	PLATE		
CPT	CARPET	HM	HOLLOW METAL	??	PROPERTY LINE	U.C.	UNDER COUNTER
CT	CERAMIC TILE	HDN.	HAND	PLAS.	PLASTIC LAMINATE	U.L.	UNDERWRITER'S LABORATORY
CTB	CERAMIC TILE BASE	HP	HIGH POINT	PLYWD.	PLYWOOD	UNO	UNLESS NOTED OTHERWISE
CTR	CENTERS	HORIZ.	HORIZONTAL	PNL	PANEL		
C	CENTER LINE	HR	HOUR	PP	POWER POLE	VAR	VARIES
C.W.	COLD WATER	HT	HEIGHT	PR	PAIR	VD	VOLUME DAMPER
		H.W.	HOT WATER	PREFAB	PREFABRICATED	VERT	VERTICAL
D/DIA	DIAMETER	HVAC.	HEATING, VENTILATION,	PROJ	PROJECTION	V.C.T.	VINYL COMPOSITION TILE
DB	DRY BULB		AIR CONDITIONING	PSF	POUNDS/SQUARE FOOT	VTR	VENT-THRU-ROOF
DBL	DOUBLE			PSI	POUNDS/SQUARE INCH	V.W.C.	VINYL WALL COVERING
DEFL	DEFLECTION	IC	INTERCOM	P.T.D.	PAPER TOWEL DISPENSER		
DEPT.	DEPARTMENT	INSUL	INSULATION	PVC	POLYVINYL CHLORIDE	W	WIDE, WIDTH
DET/DTL	DETAIL	INT	INTERIOR			W/	WITH
DISP.	DISPENSER	INV	INVERT	QT	QUARRY TILE	WCO	WALL CLEANOUT
DK	DARK			QTB	QUARRY TILE BASE	WD	WOOD
DN	DOWN	JAN	JANITOR	QTY	QUANTITY	WG	WATER GAUGE
D.P.	DAWNPROOFING	JT	JOINT			WGVP	WATER GAUGE VISION PANEL
DS	DOWNSPOUT	JST	JOIST			WH	WATER HEATER
DWG(S)	DRAWING(S)					WP	WATERPROOFING
						WV	WATER VALVE
						WMF	WELDED WIRE FABRIC

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(* SHEETS ARE BEST PRINTED IN COLOR)

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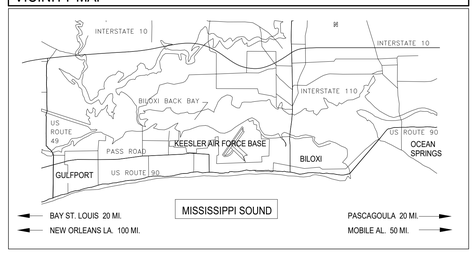
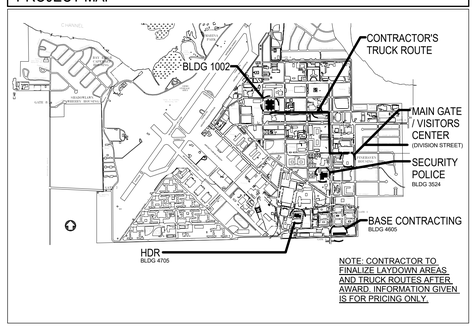
VICINITY MAP



PROJECT MAP



NOTE: CONTRACTOR TO FINALIZE LAYDOWN AREAS AND TRUCK ROUTES AFTER AWARD. INFORMATION GIVEN IS FOR PRICING ONLY.

GRAPHIC LEGEND

- WOOD BLOCKING
- CONT BATT INSULATION / ACOUSTICAL BATTS
- GYPSUM BOARD
- FLOOR DRAIN
- ROOM NAME 000 — ROOM DESIGNATION
- XX — WALL PARTITION TYPE
- 100A — DOOR OPENING
- A — WINDOW TYPE
- 6.2 — COLUMN GRID LINE
- DETAIL
- 1 A520 — ELEVATION
- 1 A200 — BUILDING SECTION / DETAIL
- 1 A300

MATERIAL LEGEND

- BRICK
- BRICK IN SECTION
- EARTH
- CONCRETE IN SECTION/PLAN
- GRASS
- METAL IN SECTION
- WOOD DOOR
- FINISH WOOD
- ROUGH WOOD CONSTRUCTION IN SECTION
- RIGID INSULATION
- CAST STONE

GENERAL NOTES

1. ALL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO QUANTIFY THE MATERIALS SPECIFIED AND INDICATE THEIR INTENDED RELATIONSHIP TO EACH OTHER. THE DRAWINGS ARE NOT TO BE SCALED. THE VARIOUS SCALES USED ON THE DRAWINGS MAY NOT ALLOW FOR ALL THE FITTINGS, OFFSETS, AND ACCESSORIES THAT MAY BE REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE CONDITIONS THAT WOULD AFFECT THE WORK TO BE PERFORMED AND SHALL ARRANGE SUCH WORK AS NECESSARY TO COMPLY WITH THE INTENT OF THE CONSTRUCTION CONDITIONS.
2. THIS PROJECT DOES NOT CONTAIN ASBESTOS MATERIAL IN THE CONSTRUCTION AREA.
3. THIS PROJECT DOES NOT CONTAIN LEAD BASE PAINT MATERIAL IN THE CONSTRUCTION AREA.

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I.C. THOMASSON & ASSOCIATES, INC.
MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

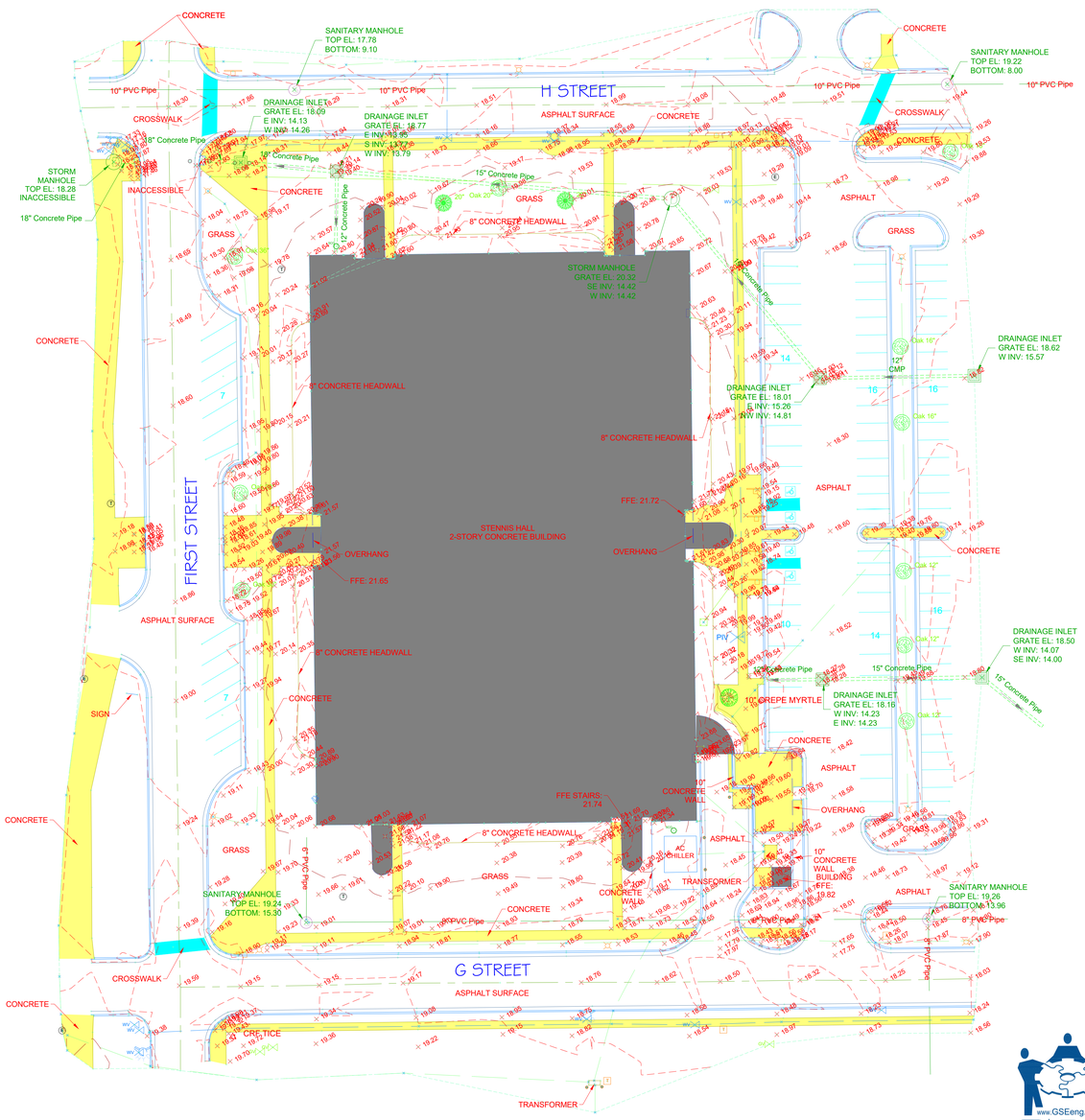
STAMP
REGISTERED ARCHITECT KYLE KISH 4205 STATE OF MISSISSIPPI
2-20-24

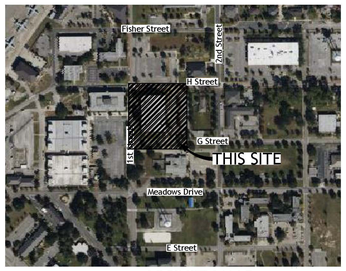
REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE, BILOXI, MISSISSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: HAS	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: DRAWINGS INDEX & PROJECT INFORMATION
CHECKED: KLK	DATE: 2/20/24	DRAWING NUMBER: G001 — SHEET 2 OF 74





VICINITY MAP

SCALE: 1" = 30'

LEGEND:

- CENTERLINE
- W — WATER LINE
- SAN — SANITARY SEWER
- UP — UNDERGROUND POWER
- GAS — GAS LINE
- STORM DRAIN
- 10.00 EX. SPOT ELEVATION
- LIGHT POLE
- SIGN
- TELEPHONE BOX
- MANHOLE ELECTRIC
- MANHOLE TELEPHONE
- BOLLARD
- GAS METER
- GV GAS VALVE
- WV WATER VALVE
- FIRE HYDRANT
- FDC FIRE DEPT. CONNECTION
- PIV POST INDICATOR VALVE
- STORM DRAINAGE MANHOLE
- DRAINAGE INLET
- SANITARY MANHOLE
- SCO SANITARY CLEANOUT
- OAK TREE
- PINE TREE
- CREPE MYRTLE
- CRF CAPPED REBAR FOUND
- HANDICAP PARKING SPACE
- CONCRETE SURFACE

PROPERTY DESCRIPTION:

A PARCEL OF LAND, BEING A PORTION OF SECTION29-TOWNSHIP 7 SOUTH-RANGE 9 WEST, LYING WITHIN HARRISON COUNTY, MISSISSIPPI.

SURVEY NOTES:

1. TYPE OF SURVEY: TOPOGRAPHICAL (SPECIFIC PURPOSE) SURVEY
2. THIS PROPERTY MAY BE SUBJECT TO BUILDING SETBACKS AND OTHER RESTRICTIONS BY GOVERNING BODY.
3. THIS SURVEY DOES NOT INCLUDE THE IDENTIFICATION OR LOCATION OF WETLANDS OR OTHER ENVIRONMENTALLY SENSITIVE AREAS.
4. BY GRAPHIC PLOTTING ONLY, THE SURVEYED PROPERTY IS LOCATED IN ZONE "X" SHADED AS PER F.I.R.M. MAP NO. 28047C0291G, DATED 6/16/2009.

SURVEYOR'S CERTIFICATION :

I, MATTHEW C. ROBERTS, A LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF MISSISSIPPI, HEREBY STATE THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR SURVEYING IN THE STATE OF MISSISSIPPI TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, AND THE SURVEY SHOWN HEREON IS A PLAT OF THE PREVIOUSLY DESCRIBED PROPERTY.

I FURTHER STATE THAT THE BUILDING/FOUNDATION NOW ERECTED ON SAID LOT ARE WITHIN THE BOUNDARIES OF SAME AND THAT THERE ARE NO ENCROACHMENTS BY ADJOINING PROPERTY, EXCEPT AS SHOWN; THAT THERE ARE NO RIGHTS OF WAY, EASEMENTS, OR JOINT DRIVEWAYS OVER OR ACROSS SAID LOT, VISIBLE ON THE SURFACE, EXCEPT AS SHOWN; THAT THERE ARE NO CEMETERIES, STREAMS, RIVERS, PONDS, OR LAKES VISIBLE ON THE SURFACE OF SAID LOT, EXCEPT AS SHOWN; THAT THERE ARE NO ELECTRIC OR TELEPHONE WIRES OR STRUCTURES OR SUPPORTS THEREFOR, INCLUDING POLES, ANCHORS, AND GUY WIRES ON OR OVER SAID LOT, EXCEPT AS SHOWN; THAT ALL FENCES AND OTHER IMPROVEMENTS, VISIBLE ON THE SURFACE OF SAID LOT, ARE SHOWN UNLESS OTHERWISE STATED HEREON; THAT THE SCALE OF DRIVES, WALKS, FENCES, ETC. ARE IN SOME INSTANCES EXAGGERATED FOR THE PURPOSE OF SHOWING DETAIL; THAT THIS DRAWING DOES NOT REFLECT ANY TITLE OR EASEMENT RESEARCH OTHER THAN WHAT IS VISIBLE ON THE GROUND OR PROVIDED BY THE CLIENT'S CONVEYANCE

MATTHEW C. ROBERTS, PLS — **DATE**
MISSISSIPPI REG. NO. 3178

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SURVEY PROVIDED BY GULF STATES ENGINEERING, INC.

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MAHG 171095 REPAIR STENNIS HALL

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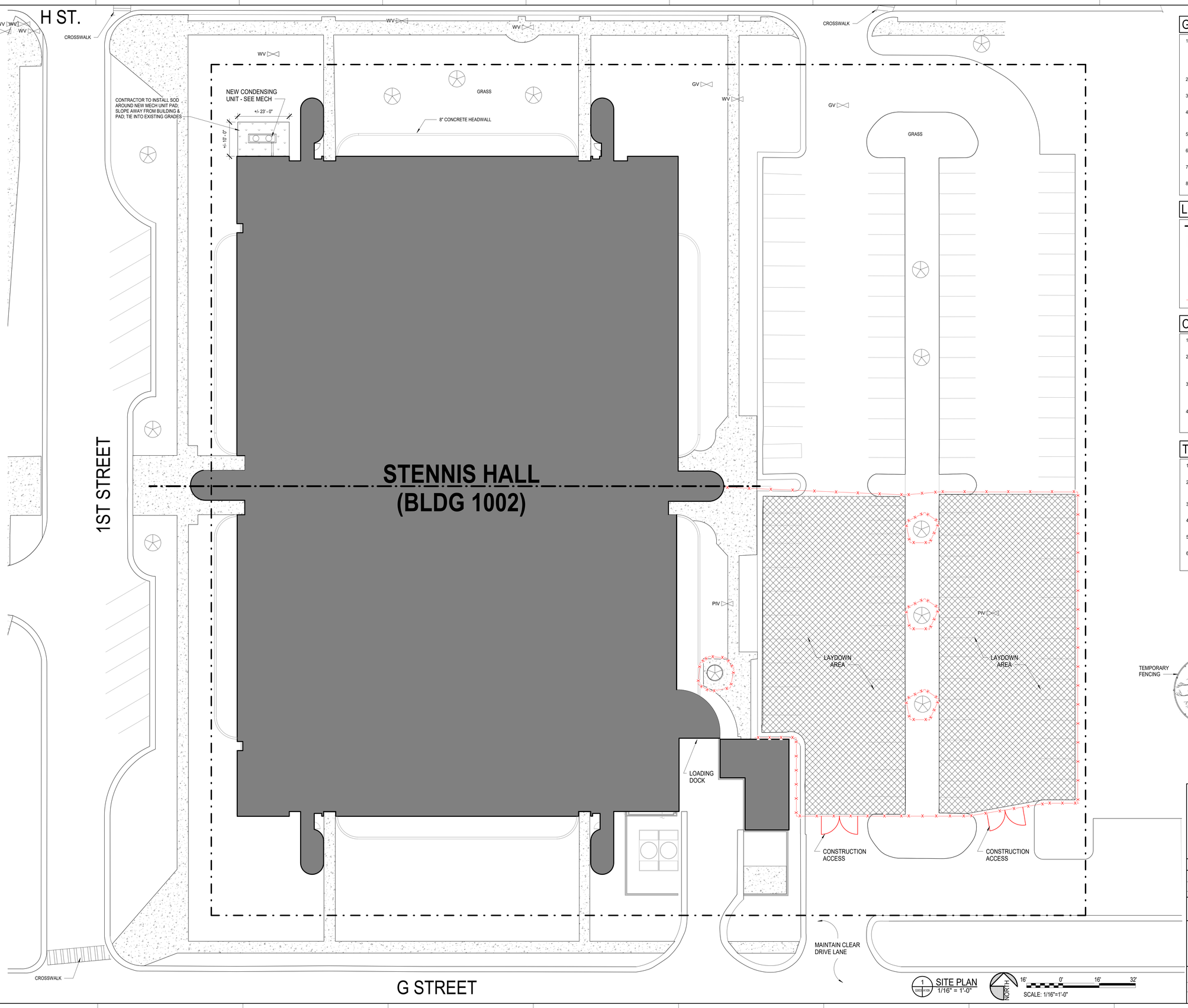
DRAWN: HAS	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: SURVEY	DRAWING NUMBER: G002
CHECKED: KLK	DATE: 2/20/24		SHEET 3 OF 74



1 SITE PLAN
1/16" = 1'-0"

NORTH
16' 0' 16' 32'
SCALE: 1/16"=1'-0"

GENERAL NOTES - ARCH. SITE PLAN

1. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY EXISTING SOD THAT IS DAMAGED DURING THE SCOPE OF THIS PROJECT. ANY SOD REPLACED MUST MATCH EXISTING SOD TYPE AND MUST BE ESTABLISHED FULLY BEFORE PROJECT CLOSE OUT. ALL INSTALLED SOD MUST BE PROPERLY GRADED & ALLOW FOR POSITIVE DRAINAGE IN DIRECTION OF EXISTING DRAINAGE FLOW (AWAY FROM BUILDING).
2. THE CONTRACTING OFFICER HAS FULL RIGHT OF REFUSAL ON ALL ITEMS AND MATERIAL CONTAINED WITHIN THE CONTRACT LIMITS.
3. CONTRACTOR IS TO ENSURE ALL WORK AREAS ARE CLEANED AT THE END OF EACH WORK DAY.
4. CONTRACTOR SHALL PROTECT ALL EXISTING TREES/ LANDSCAPING WITHIN AREAS OF WORK. CONTRACTOR SHALL REPLACE ANY TREES/ LANDSCAPING DAMAGED BY CONTRACTORS DURING EXTENTS OF PROJECT.
5. CONTRACTOR SHALL PROTECT ALL EXIST. CONCRETE SIDEWALKS/ PAVEMENT AND ALL EXIST. ASPHALT TO REMAIN DURING CONSTRUCTION.
6. CONTRACTOR TO PATCH/ REPAIR/ REPLACE CONCRETE/ ASPHALT DAMAGED DURING DURATION OF PROJECT TO MATCH EXIST. CONDITIONS OR BETTER.
7. PATCH AND REPAIR ABUTTING SURFACES OF DEMOLITION ITEMS THAT ABUT TO EXISTING COMPONENTS OUTSIDE THE LIMITS OF WORK.
8. FINAL SITE CLEANING: THE SITE SHALL BE CLEAR OF ALL DEBRIS, DEMOLITION RELATED AND NON-RELATED (SITE TRASH).

LEGEND

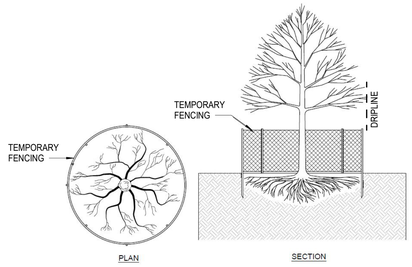
- PROJECT LIMITS
- EXISTING BLDG TO BE RENOVATED
- SOD/ SEED
- EXISTING CONCRETE TO REMAIN
- EXISTING ASPHALT TO REMAIN
- LAYDOWN AREA WITH CONSTRUCTION FENCING
- EXISTING TREE TO REMAIN
- —x x x— 8 FT TALL CONSTRUCTION FENCING

CONSTRUCTION ACTIVITIES NOTES

1. ALL CONSTRUCTION ACTIVITIES THAT AFFECT AREAS OUTSIDE OF THE FENCED CONSTRUCTION SITE AS SHOWN SHALL BE APPROVED BY CONTRACTING OFFICER.
2. BUILDING WILL REMAIN OPERATIONAL DURING THE ENTIRE DURATION OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH CONTRACTING OFFICER UNDER ANY CIRCUMSTANCES THAT MAY AFFECT TRAFFIC AND MOVEMENT OF PEOPLE AROUND THE BUILDING.
3. A PORTION OF THE EXISTING PARKING SHALL BE USED FOR CONSTRUCTION ACTIVITIES. THIS INCLUDES LAYDOWN AND CONTRACTOR PARKING. ADDITIONAL AREA REQUESTS ARE TO BE REVIEWED & APPROVED BY THE CONTRACTING OFFICER.
4. CONTRACTOR TO PROVIDE PLAN TO CONTRACTING OFFICER PRIOR TO COMMENCING WORK. PLAN TO INCLUDE FENCE LOCATION, ACCESS POINTS, DUMPSTERS, JOB TRAILER, PORTA POTTIES, ETC. LAYOUT PLAN TO BE APPROVED BY CONTRACTING OFFICER.

TREE PROTECTION NOTES

1. PROTECTION ZONE SHALL BE TO THE DRIPLINE OF THE TREE. FOR SMALL CALIPER TREES, THE PROTECTION ZONE SHALL BE 6 FOOT MINIMUM DIAMETER.
2. TEMPORARY FENCING SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). TO INSTALL FENCE POSTS, AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
3. THERE SHALL BE NO SOIL DISTURBANCE UNDER THE DRIP LINE OF TREES TO BE PRESERVED.
4. NO EQUIPMENT OR MACHINERY SHALL BE USED WITHIN THE PROTECTION ZONE. WORK WITHIN THE PROTECTION ZONE SHALL BE DONE MANUALLY.
5. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE IS ALLOWED WITHIN THE LIMIT OF THE PROTECTION ZONE.
6. SOD ALL LAWN AREAS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITY. NO PARKING OR LAYDOWN ALLOWED BENEATH DRIPLINES OF EXISTING TREE CANOPIES EXCEPT WHEN LAYDOWN OCCURS IN AREAS WITH EXISTING ASPHALT.



2 TYPICAL TREE PROTECTION DETAIL
NOT TO SCALE

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REVISION	DATE		DRAWN	APPROVED

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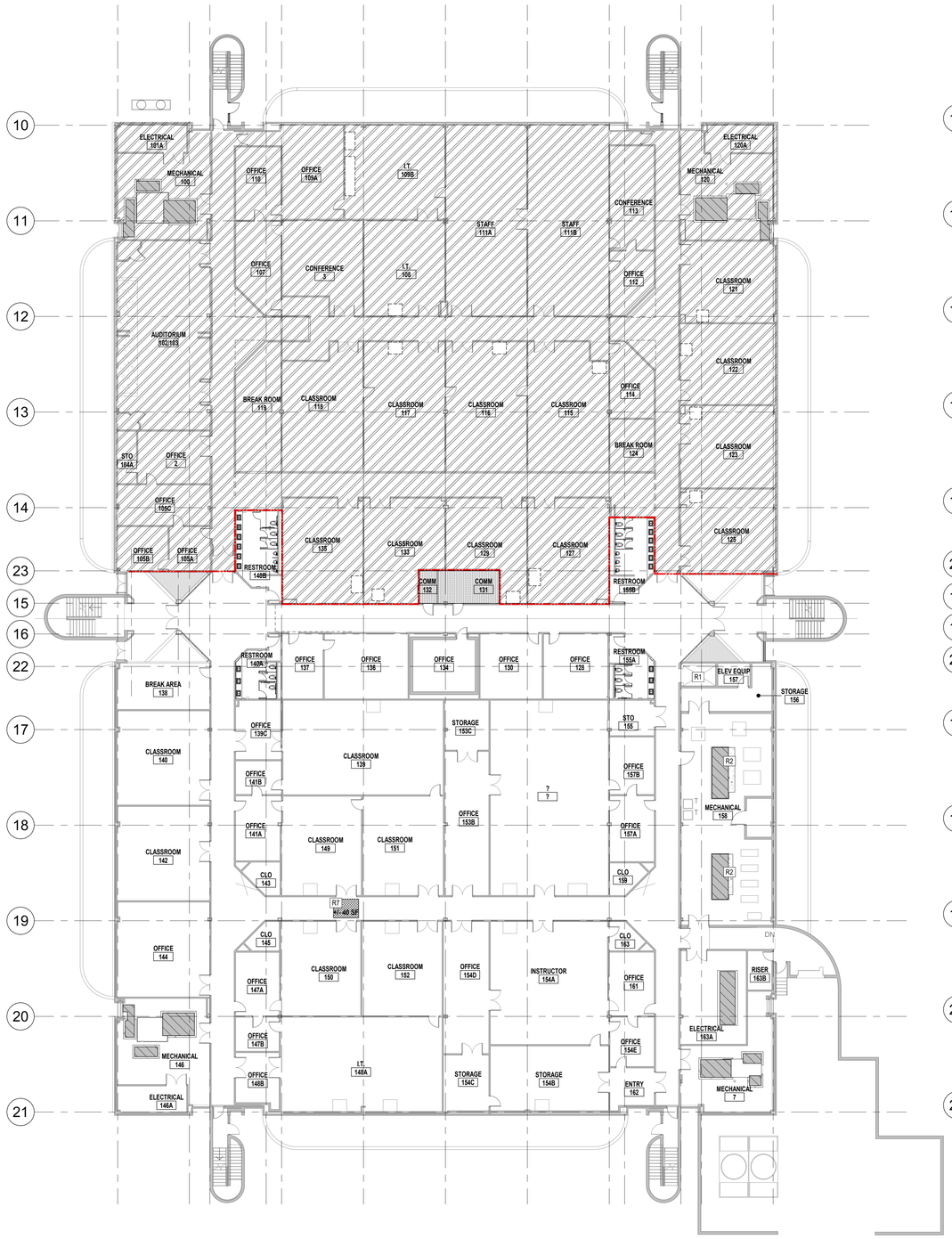
BILOXI — MISSISSIPPI
OFFICE OF CIVIL ENGINEERS
AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR
STENNIS HALL

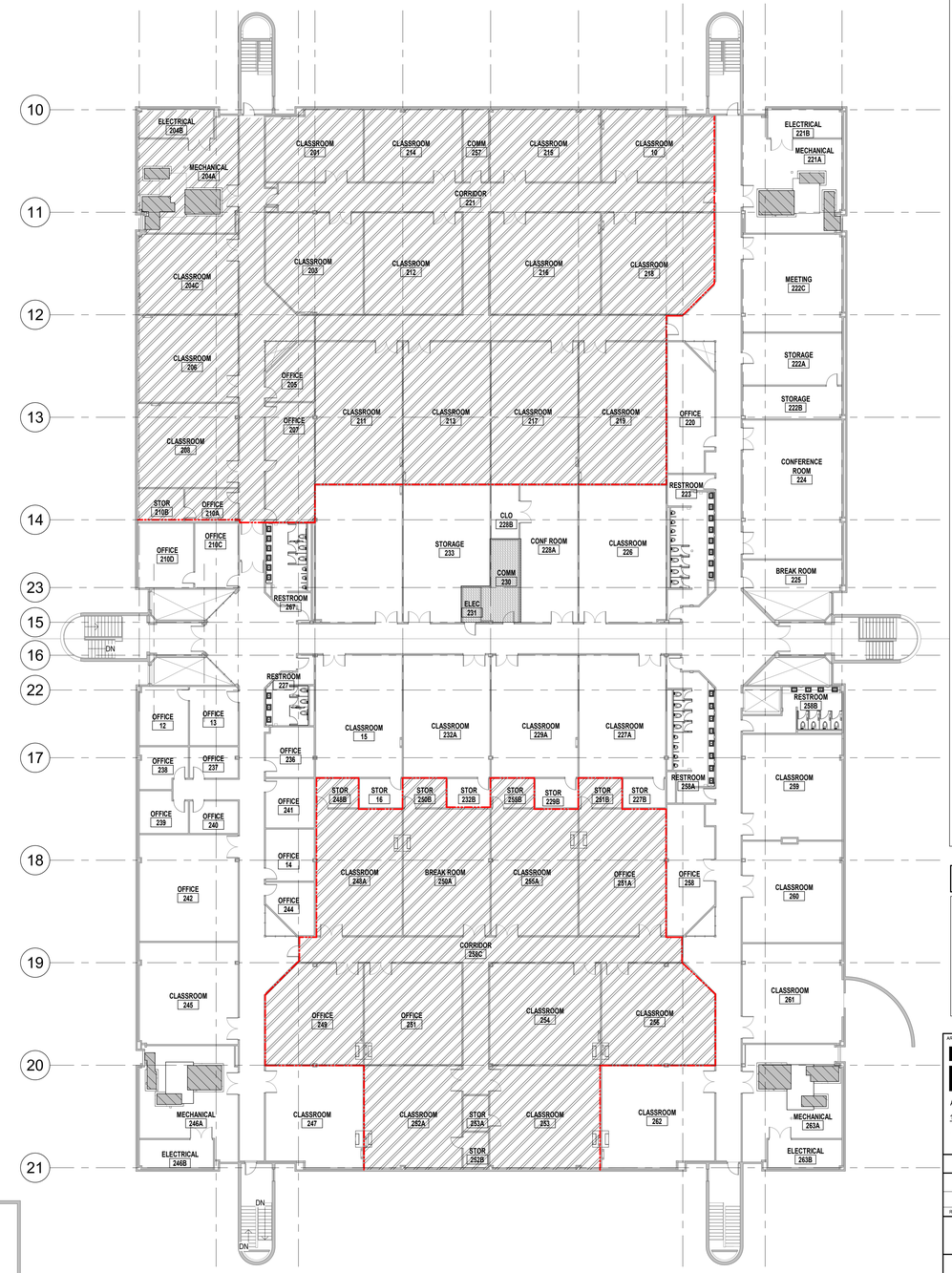
SUBMITTED: (Chief of Contracts Design)

RECOMMENDED: (Chief of Engineering)
G. REED

DRAWN: HAS
CHECKED: KLK
PROJECT NUMBER: MAHG 17-1095
DATE: 2/20/24
SHEET NAME: SITE PLAN
FACILITY NUMBER: B1002
DRAWING NUMBER: G003
SHEET 4 OF 74



1 G004A108 1ST FLOOR OVERALL PHASING PLAN
1/16" = 1'-0"



2 G004A108 2ND FLOOR OVERALL PHASING PLAN
1/16" = 1'-0"

NORTH

16' 0' 16' 32'

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

GENERAL NOTES - PHASING PLAN

1. THE ENTIRE SECOND FLOOR WILL BE PROVIDED TO THE CONTRACTOR FIRST FOR HVAC QUADRANT AND RESTROOM WORK.
2. THE CONTRACTOR IS TO COMPLETE THE SECOND FLOOR HVAC QUADRANT MECHANICAL ROOM WORK PRIOR TO WORK ON THE FIRST FLOOR HVAC QUADRANT MECHANICAL ROOMS. THE ENTIRE FIRST FLOOR WILL BE PROVIDED AT ONE TIME.
3. RESTROOM WORK TO OCCUR AT THE SAME TIME AS THE PHASE OF THE HVAC QUADRANT MECHANICAL ROOM WORK.
4. REPLACEMENT OF THE CRACS (CRAC UNITS -6,-7,-8,-9,-10-11) MAY OCCUR PRIOR TO WORK ON THE FIRST FLOOR QUADRANT HVAC ROOMS. THE CONTRACTOR IS TO COORDINATE WITH THE CONTRACTING OFFICER.
5. PENETRATIONS FROM THE SECOND FLOOR TO THE FIRST FLOOR ARE TO BE COMPLETED DURING THE SECOND FLOOR WORK; INCLUDING ALL SECURITY REQUIREMENTS OF THE DUCTWORK.
6. THE SWITCH GEAR NEEDS TO BE INSTALLED BEFORE THE FOLLOWING CAN OCCUR:
   a. ELEVATOR REFURBISHMENT
   b. CHILLER REPLACEMENT/ INSTALLATION
   c. 1ST FLOOR NORTHWEST QUADRANT MECHANICAL ROOM REFURBISHMENT
   d. REPLACEMENT OF CRAC UNITS -1, -2, -3, -4, -5, -12, -13, -14, -1.1
   e. THE ENTIRE BUILDING WILL BE DOWN DURING THE REPLACEMENT OF THE SWITCHBOARD (MAX OF 7 DAYS – TO OCCUR BETWEEN DECEMBER 22 AND JANUARY 5)
7. ONE CHILLER CAN BE TAKEN DOWN AT A TIME; THE OTHER CHILLER NEEDS TO REMAIN FULLY OPERATIONAL.
8. BACKUP DX HVAC UNITS ARE TO BE PROVIDED IN THE CENTRAL ELECTRICAL/COMM ROOMS 131, 132, 230 & 231 DURING WORK ON THE CHILLERS AND THE WORK PHASE FOR THAT SPECIFIC FLOOR.
9. A NEW ELECTRICAL SUBPANEL IN THE 1ST FLOOR NORTHWEST QUADRANT IS TO BE FED FROM THE SOUTHEAST MAIN ELECTRICAL ROOM. ITEM 9 MUST OCCUR PRIOR TO ITEM 6.C & 6.D.
10. THE REDUNDANT DX CRAC UNIT IN ROOM 109 NEEDS TO BE INSTALLED BEFORE THE EXISTING ONE IS REPLACED.
11. MULTIPLE EAST QUADRANT CRAC UNITS, TO BE REPLACED, ARE FED FROM THE WEST SIDE; THE ELECTRICAL WIRING MUST BE RE-FED THROUGH EXISTING RACEWAYS/CONDUITS.
12. THE BUILDING WILL BE OCCUPIED DURING THE WORK, INCLUDING SOME OF THE AREAS OF EACH PHASE OF WORK. COORDINATE WORK SCHEDULE WITH THE CONTRACTING OFFICER.
13. THE ELEVATOR SYSTEM REFURBISHMENT TO BE COMPLETED AFTER THE SECOND FLOOR WORK IS COMPLETED.
14. CONTRACTORS WILL BE ESCORTED IN SECURE AREAS DURING THE WORK. THE GOVERNMENT WILL BE PROVIDING ESCORTS TO THE CONTRACTOR AT NO EXTRA COST TO THE CONTRACTOR. THE CONTRACTOR WILL HAVE TO SCHEDULE WORK/ESCORTS WITH THE CONTRACTING OFFICER 2 WEEKS IN ADVANCE.
15. EGRESS ROUTES MUST BE MAINTAINED DURING THE WORK FOR THE OCCUPIED AREAS.
16. WHEN THE FIRE ALARM SYSTEM IS NOT OPERATIONAL, THE CONTRACTOR IS TO PROVIDE A FIRE WATCH, COORDINATE OUTAGE WITH BASE FIRE DEPARTMENT AND CONTRACTING OFFICER.
17. CONSTRUCTION SUBMITTALS OF ASSEMBLIES THAT PENETRATE THE SECURE BOUNDARY WILL HAVE AN EXTENDED REVIEW PERIOD. THE CONTRACTOR IS TO INCORPORATE A 45 REVIEW TIMELINE ON THESE ITEMS.
18. CONTRACTOR TO COORDINATE WITH THE CONTRACTING OFFICER TO SCHEDULE THE POWER OUTAGE TO THE ENTIRE FACILITY BETWEEN DECEMBER 21 AND JANUARY 5 TO MINMIZE IMPACT TO THE TRAINING SQUADRON.

PHASING PLAN LEGEND

- SECURE AREAS / SECURE BOUNDRY
- EXISTING WALL
- NEW COMPUTER ROOM UNIT - SEE MECH
- NEW AIR HANDLING UNIT - SEE MECH
- TEMP HVAC REQUIRED - SEE MECH

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REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MSS/SSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief ofEngineering) G. REED	FACILITY NUMBER: B1002
DRAWN: HAS	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: PHASING PLAN	DRAWING NUMBER: G004
CHECKED: KLK	DATE: 2/20/24	SHEET 5 OF 74

CODE INFORMATION - IBC 2018

APPLICABLE BUILDING CODES:
INTERNATIONAL EXISTING BUILDING CODE - 2018 EDITION
INTERNATIONAL BUILDING CODE - 2018 EDITION
NFPA 1 - FIRE CODE
NFPA 10 - STANDARD FOR PORTABLE FIRE EXTINGUISHERS
NFPA 13 - STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
NFPA 70 - NATIONAL ELECTRIC CODE
NFPA 72 - NATIONAL FIRE ALARM CODE
NFPA 90A - INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS
NFPA 101 -LIFE SAFETY CODE
NFPA 110 - EMERGENCY AND STANDBY POWER SYSTEMS
NFPA 220 - STANDARD ON TYPES OF BUILDING CONSTRUCTION ARCHITECTURAL BARRIERS ACT

PHYSICAL BUILDING PROPERTIES:

EXISTING BUILDING AREA/ WORK AREA:	
FIRST FLOOR (GROSS)	**55,682 SF**
SECOND FLOOR (GROSS)	**54,875 SF**
TOTAL GROSS AREA	**110,557 SF**

2 STORIES **BUILDING HEIGHT:** 30 FT
AUTOMATIC SPRINKLER SYSTEM: YES

INTERNATIONAL EXISTING BUILDING CODE:
ALTERATIONS TO ANY BUILDING SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
EXCEPTION 1. AN EXISTING STAIRWAY SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 1011 OF THE IBC WHERE THE EXISTING SPACE AND CONSTRUCTION DOES NOT ALLOW A REDUCTION IN PITCH OR SLOPE.

EXCEPTION 2. HANDRAILS OTHERWISE REQUIRED TO COMPLY WITH SECTION 1011.11 OF THE IBC SHALL NOT BE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF SECTION 1014.6 OF THE IBC REGARDING FULL EXTENSION OF THE HANDRAILS WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS BECAUSE OF PLAN CONFIGURATION.

SECTION 802.2.1 EXISTING VERTICAL OPENINGS
EXISTING INTERIOR VERTICAL OPENING CONNECTING TWO OR MORE FLOORS SHALL B ENCLOSED WITH APPROVED ASSEMBLIES HAVING A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR WITH APPROVED OPENING PROTECTION
EXCEPTION 5.2.IN GROUP B OCCUPANCIES, A MINIMUM 30-MINUTE ENCLOSURE SHALL BE PROVIDED TO PROTECT ALL VERTICAL OPENINGS NOT EXCEEDING THREE STORIES. THIS ENCLOSURE SHALL NOT BE REQUIRED IN THE IN BUILDINGS PROTECTED BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM.

SECTION 802.2.3 SUPPLEMENTAL STAIRWAY ENCLOSURE REQS
WHERE THE WORK AREA ON ANY FLOOR EXCEEDS 50 PERSON OF THAT FLOOR AREA, STAIRWAYS THAT ARE PART OF THE MEANS OF EGRESS SERVING THE WORK AREA SHALL, AT A MINIMUM, BE ENCLOSED WITH SMOKE-TIGHT CONSTRUCTION ON THE HIGHEST WORK AREA FLOOR AND ALL FLOOR BELOW.

SECTION 803.1.1 CORRIDOR RATINGS
WHERE AN APPROVED AUTOMATIC SPRINKLER SYSTEM IS INSTALLED THROUGHOUT THE STORY, THE REQUIRED FIRE-RESISTANCE RATING FOR ANY CORRIDOR LOCATED ON THE STORY SHALL BE PERMITTED TO BE REDUCED IN ACCORDANCE WITH THE IBC. IN ORDER TO BE CONSIDERED FOR A CORRIDOR RATING REDUCTION, SUCH SYSTEM SHALL PROVIDE COVERAGE FOR THE STAIRWAY LANDINGS SERVING THE FLOOR AND THE INTERMEDIATE LANDINGS IMMEDIATELY BELOW.

SECTION 803.2.2 GROUP B
WORK AREAS THAT HAVE AN OCCUPANT LOAD OVER 30 AND WORK AREAS THAT EXCEED 50 PERCENT OF THE FLOOR AREA SHALL BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM.

SECTION 805.2 GENERAL
THE MEANS OF EGRESS SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION
EXCEPTION 1. WHERE THE WORK AREA AND THE MEANS OF EGRESS SERVING IT COMPLIES WITH NFPA 101. INTERNATIONAL BUILDING CODE:

SECTION 901.2 COMPLIANCE (ALTERATIONS - LEVEL 3)
WORK SHALL CONFORM TO CHAPTERS 7 & 8 (LEVELS 1 & 2) IN ADDITION TO ITEMS LOCATED IN CHAPTER 9.

INTERNATIONAL BUILDING CODE:
OCCUPANCY
304 GROUP B

CONSTRUCTION TYPE: IIB (NFPA 101 = TYPE II 000)

STRUCTURAL ELEMENT	FIRE RESISTANCE RATING
PRIMARY STRUCTURAL FRAME	0
INTERIOR BEARING WALLS	0
EXTERIOR BEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

TABLE 503 - ALLOWABLE BUILDING HEIGHTS AND AREAS:
CONSTRUCTION TYPE: IIB
OCCUPANCY:

ALLOWED STORIES:	4
ACTUAL STORIES:	2
ALLOWED HEIGHT:	75 FT
ACTUAL HEIGHT:	30 FT
ALLOWED AREA:	69,000 SF
ACTUAL AREA:	110,557 SF

LEGEND - LIFE SAFETY

ASSEMBLY
BUSINESS
UTILITY
EDUCATION

OCCUPANCY COUNT DETERMINATION
(OCCUPANT PER SQAURE FOOTAGE)

A3 - ASSEMBLY
UNCONCENTRATED - 1:15

B - BUSINESS - 1:100

U - UTILITY
STORAGE - 1:300
MECH/ELEC - 1:300

E - EDUCATIONAL (CLASSROOM) - 1:20

1 HR FIRE RATING
EXIT EGRESS
EXIT SIGNAGE
DEAD END LENGTH

ROOM NAME
ROOM
APPROXIMATE OCCUPANT LOAD (PERSONS)
SF
SF/OCC
OCC
ROOM SQUARE FOOTAGE
OCCUPANT LOAD FACTOR
REQUIRED NO. OF PEOPLE SERVED / ACTUAL NO. OF PEOPLE SERVED
REQUIRED OPENING WIDTH
57 / 64
12.4" REQ.
33" PROV.
ACTUAL OPENING WIDTH

CODE INFORMATION - EGRESS

EGRESS COMPONENTS (1005.3):
MINIMUM EXIT WIDTH FOR DOORS (1005.3.2)
REQUIRED: 0.20" PER OCCUPANT
0.20 x 76 = 15.2" REQUIRED
PROVIDED: 64"

TABLE 1005.3.1 - STAIRWAY CAPACITY
REQUIRED: 1,340 OCC X 0.2" (SPRINKLER EXCEPTION) = 268"
PROVIDED: 328", 6 STAIRWAYS

COMMON PATH OF EGRESS TRAVEL (1006.2.1)
REQUIRED: 75 FEET MAX (EDUCATION SPRINKLERED)
PROVIDED: ***65 FEET***

SEPARATION OF EXITS (1007.1.1)
REQUIRED: 16' - 9" (1/3 OF DIAGONAL DIM OF AREA SERVED)
PROVIDED: 20' - 0"

SECTION 1009.3.2 - STAIRWAYS - ACCESSIBLE 48" MIN CLEAR WIDTH & AREA OF REFUGE
EXCEPTION 1. THE CLEAR WIDTH OF 48" BETWEEN HANDRAILS IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT W/ AN AUTOMATIC SPRINKLER SYSTEM

SECTION 1009.3.3 - AREA OF REFUGE
EXCEPTION 2. AREAS OF REFUGE ARE NOT REQUIRED AT STAIRWAYS IN BUILDINGS EQUIPPED THROUGHOUT W/ AN AUTOMATIC SPRINKLER SYSTEM

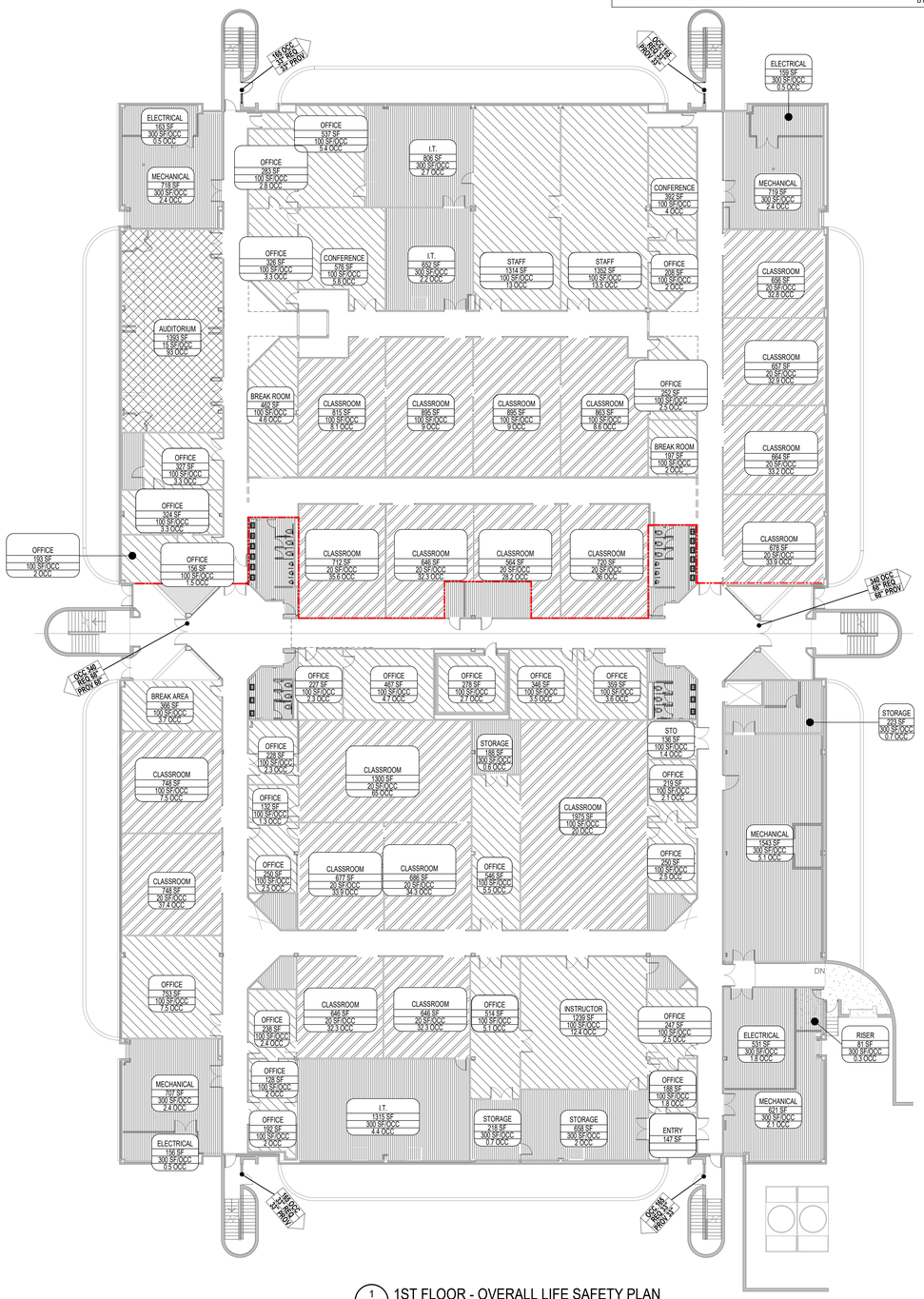
EXIT ACCESS TRAVEL DISTANCE (1017.2)
REQUIRED: 250 FEET MAX.(EDUCATION - SPRINKLERED)
PROVIDED: ***179' - 9" AT MAXIMUM DISTANCE***

CORRIDOR FIRE RESISTANCE RATING (1020.1)
REQUIRED: 0-HR RATING FOR EDUCATION, SPRINKLERED

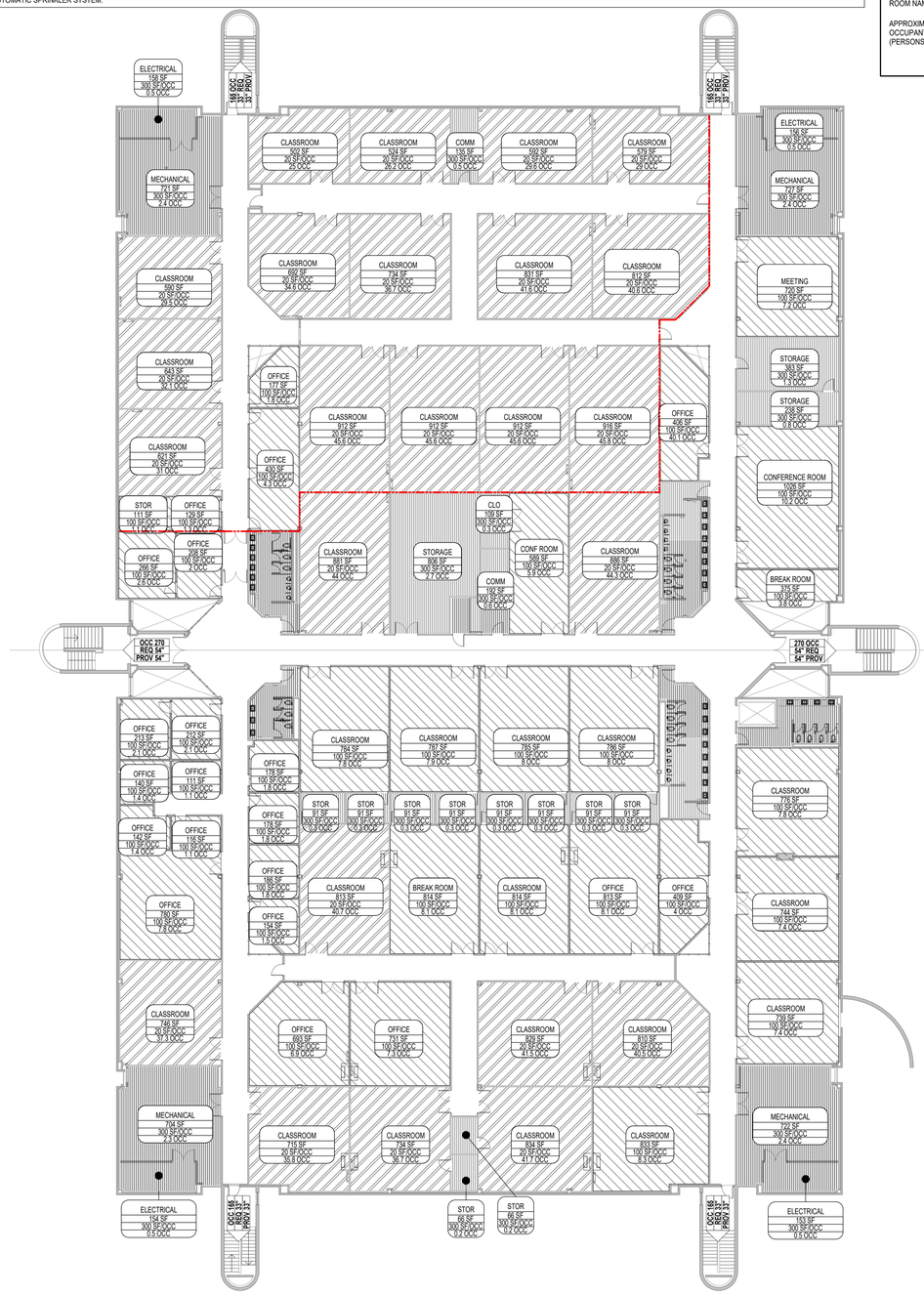
CORRIDOR WIDTH (1020.2)
REQUIRED: 72 INCHES MIN
PROVIDED: 96 INCHES

DEAD END CORRIDOR (1020.4)
REQUIRED: 50 FEET MAXIMUM
PROVIDED: N/A

NOTE: NO DOORS OR EGRESS PATHS ARE AFFECTED BY PROPOSED WORK.



1 1ST FLOOR - OVERALL LIFE SAFETY PLAN
LS100/A100 1/16" = 1'-0"



2 2ND FLOOR - OVERALL LIFE SAFETY PLAN
LS100/A100 1/16" = 1'-0"

NORTH
16' 0' 16' 32'
SCALE: 1/16"=1'-0"

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STATE OF MISSISSIPPI

REVISION	DATE	DRAWN	APPROVED

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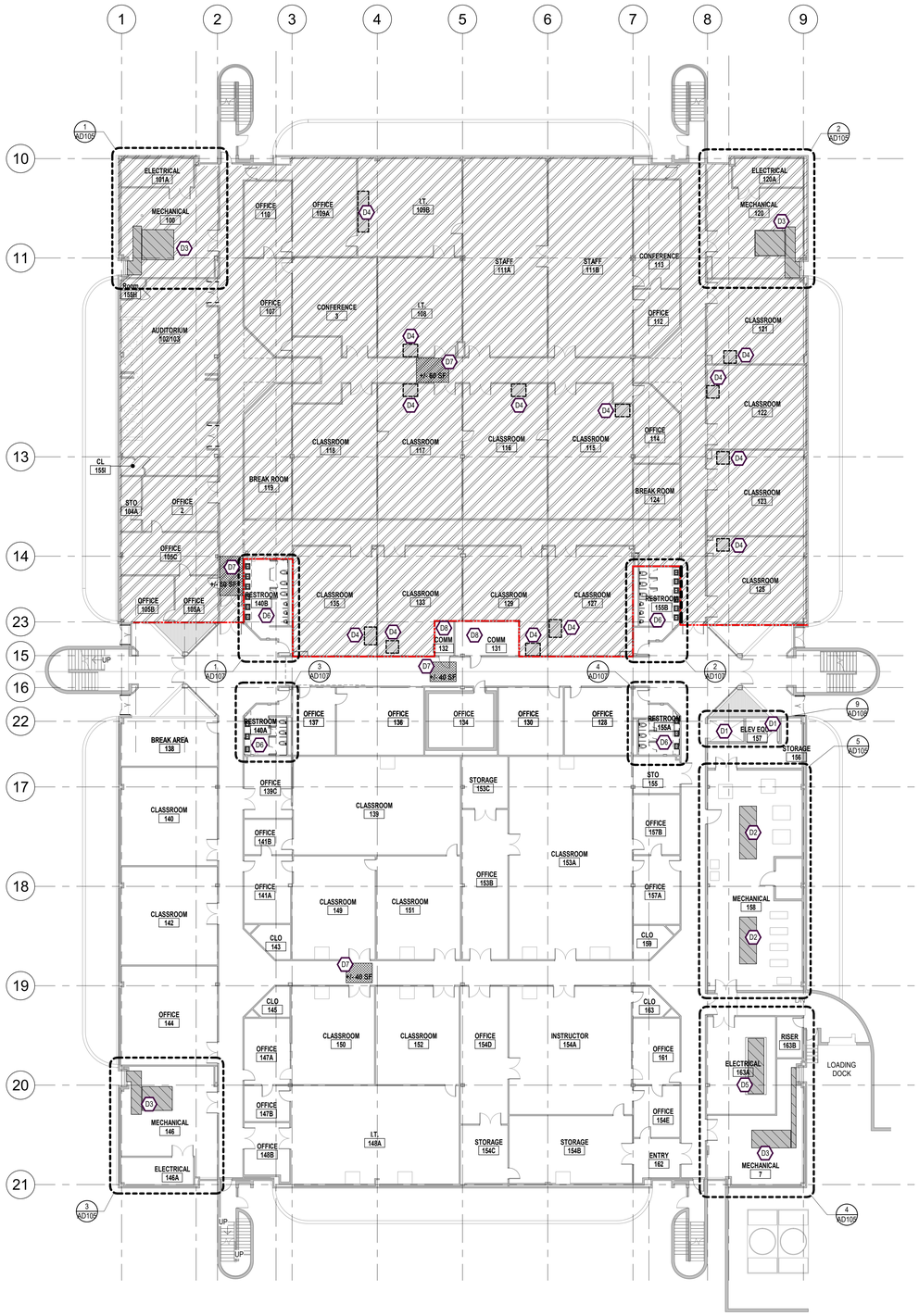
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: CFW	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: OVERALL LIFE SAFETY PLANS	DRAWING NUMBER: LS100
CHECKED: KLK	DATE: 2/20/24	SHEET 8 OF 74



1 1ST FLOOR OVERALL DEMO
1/16" = 1'-0"

2 2ND FLOOR OVERALL DEMO
1/16" = 1'-0"

NORTH
16' 0' 16' 32'
SCALE: 1/16"=1'-0"

DEMOLITION GENERAL NOTES

SEE SHEETS AD105 THRU AD107 FOR SPECIFIC DEMOLITION KEY NOTES

1. ALL INFORMATION IS BASED ON FIELD OBSERVATIONS AND CONTRACTING OFFICER SUPPLIED DOCUMENTS AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN DRAWINGS DEPICTING EXISTING CONDITIONS OR UPON DISCOVERY OF UNKNOWN CONDITIONS DETRIMENTAL TO THE COMPLETION OF THE WORK AS INDICATED IN THE DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER, IN WRITING, OF THE CONDITION IN QUESTION BEFORE PROCEEDING WITH WORK IN THAT AREA. CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF MATERIALS TO BE DEMOLISHED, REPAIRED OR RENOVATED.
2. ALL DIMENSIONS SHOWN FOR EXISTING WALLS TO REMAIN AND PARTITIONS TO BE DEMOLISHED ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHOWN.
3. DASHED LINES ON PLAN/ DETAILS INDICATE ITEMS TO BE DEMOLISHED UNLESS NOTED OTHERWISE. CONTRACTING OFFICER HAS RIGHT OF FIRST REFUSAL FOR EQUIPMENT. DEMOLITION MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL LANDFILL.
4. PATCH CMU & GYP BD SURFACES TO ACCOMMODATE NEW WORK.
5. CONTRACTOR SHALL CLEAN ALL WORK AREAS AT THE END OF EACH DAY. CONTRACTOR IS NOT ALLOWED TO STOCKPILE DEMOLITION MATERIALS ON SITE. ALL MATERIALS TO BE REMOVED IN A TIMELY FASHION.
6. COORDINATE THE WORK SCHEDULE TO MINIMIZE DISRUPTION AND DISPLACEMENT OF BUILDING OCCUPANTS.
7. MECHANICAL AND/OR ELECTRICAL WORK SHALL BE DONE BY A LICENSED MECHANICAL/ ELECTRICAL CONTRACTOR AND SHALL BE IN ACCORDANCE WITH ALL ASHRAE, NEC, AND SMACNA GUIDELINES.
8. FINAL BUILDING CLEANING: THE BUILDING SHALL BE CLEAR OF ALL DEBRIS, DEMOLITION RELATED AND NON-RELATED REFUSE AND WASTE (BASIC TRASH).
9. PORTIONS OF WORK ARE SECURE. WORK IN SECURE AREAS WILL NEED TO BE COORDINATED WITH THE CONTRACTING OFFICER. WORK IN SECURE AREAS WILL REQUIRE FULL TIME GOVERNMENT ESCORTS. USE OF SIGNAL SENDING AND/ OR RECEIVING ELECTRONICS SHALL BE CLEARED BY THE CONTRACTING OFFICER.
10. REMOVE & REINSTALL CEILING FOR INSTALL OF NEW ELEC FEEDERS FROM ROOM 163A TO 101A. PATCH SECURE WALL BOUNDARY AT PENETRATION - SEE ELECTRICAL.

DEMOLITION FLOOR PLAN NOTES

1. SEE ENLARGED DEMO FLOOR PLANS FOR SPECIFIC DEMOLITION KEYNOTES & INFORMATION.
2. SEE MECHANICAL, PLUMBING, TELECOMMUNICATIONS & ELECTRICAL FOR FURTHER DEMOLITION INFORMATION.
3. SEE REFERENCE DEMOLITION PHOTOS FOR FURTHER INFORMATION ON DEMOLITION ITEMS.
4. ON ALL DEMOLITION ITEMS, PREPARE ALL ABUTTING SURFACES FOR RENOVATION SCOPE INSTALL OR RE-INSTALL OF EXISTING MATERIALS AS NOTED/ SCHEDULED.

KEYNOTES - OVERALL DEMO

(THIS SHEET ONLY)

- D1 REMOVE ELEVATOR EQUIPMENT. PREP FOR NEW IN SHAFT & MECH ROOM.
- D2 REMOVE CHILLER & PREP FOR NEW - SEE MECH.
- D3 REMOVE AHU AND ASSOCIATED EQUIPMENT AND PREP FOR NEW - SEE MECH, ELEC & FIRE PROTECTION.
- D4 REMOVE CRAC UNITS & PREP FOR NEW - SEE MECH. PREPARE SURROUNDING AREA TO RECEIVE NEW FINISHES PATCH WORK AS REQUIRED. ADJUST EXIST RAISED ACCESS FLOOR PANELS FOR NEW UNIT.
- D5 REMOVE MDP - SEE ELEC.
- D6 ADJUST RESTROOMS - SEE ENLARGED PLANS AND PLUMBING.
- D7 REMOVE CEILING TILE AND STORE FOR REUSE. STABILIZE EXISTING ASSOCIATED EQUIPMENT & GRID. ADJUST GRID HANGERS, PREPARE FOR REINSTALLATION OF TILES & EQUIPMENT.
- D8 PROVIDE TEMP HVAC DURING WORK - SEE MECH.

BUILDING DEMO LEGEND

- X DEMOLITION KEYNOTE
- SECURE AREAS
- MECH TO BE REMOVED
- CRAC UNIT TO BE REMOVED

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4-26-24

REVISION	DATE		DRAWN	APPROVED

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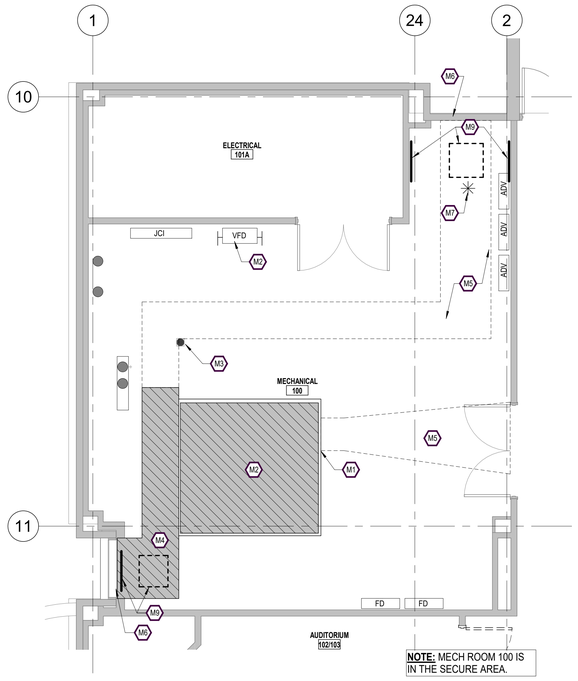
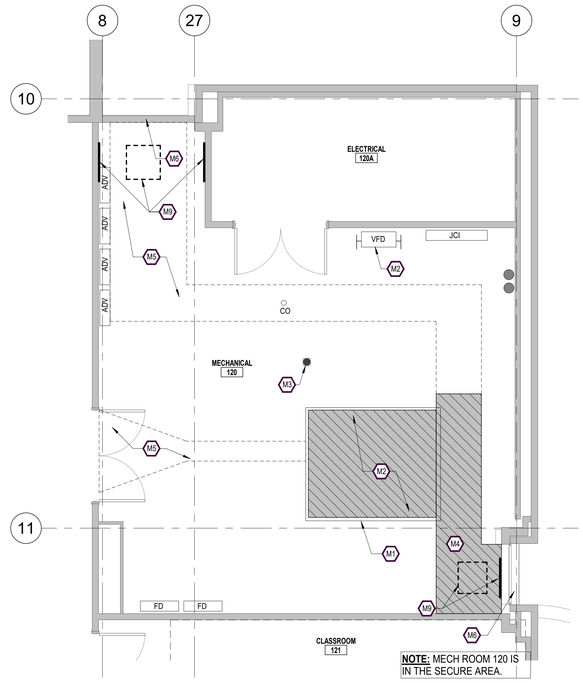
MAHG 171095 REPAIR STENNIS HALL

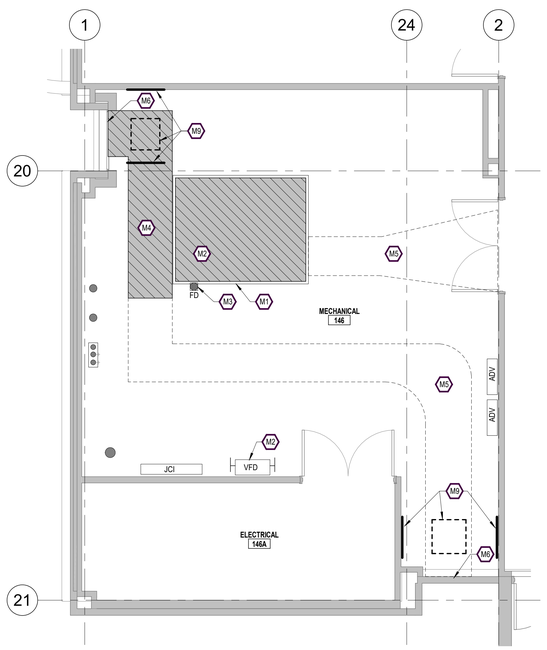
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: HAS	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: OVERALL DEMO PLANS	DRAWING NUMBER: AD100
CHECKED: KLK	DATE: 2/20/24	SHEET 7 OF 74



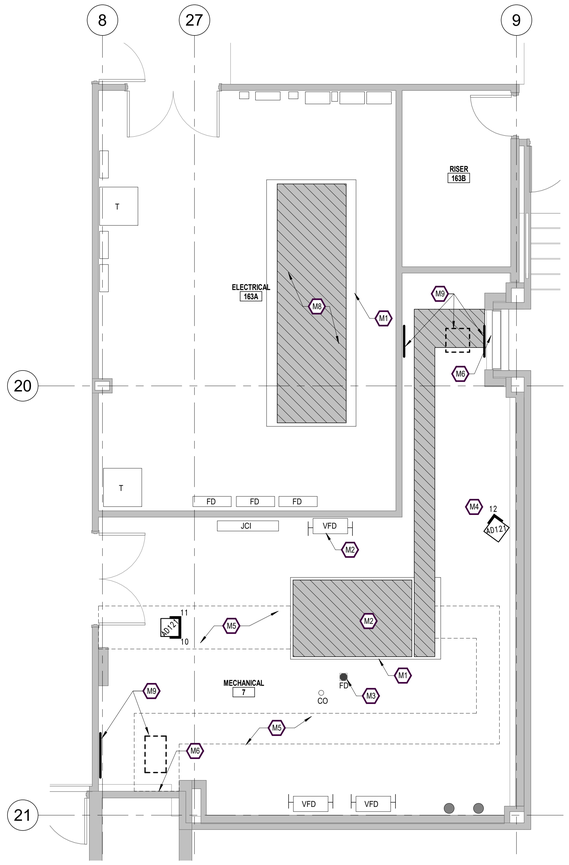
1 AD100/AD100 1ST FLOOR NW MECH 100 - DEMO PLAN
1/4" = 1'-0"



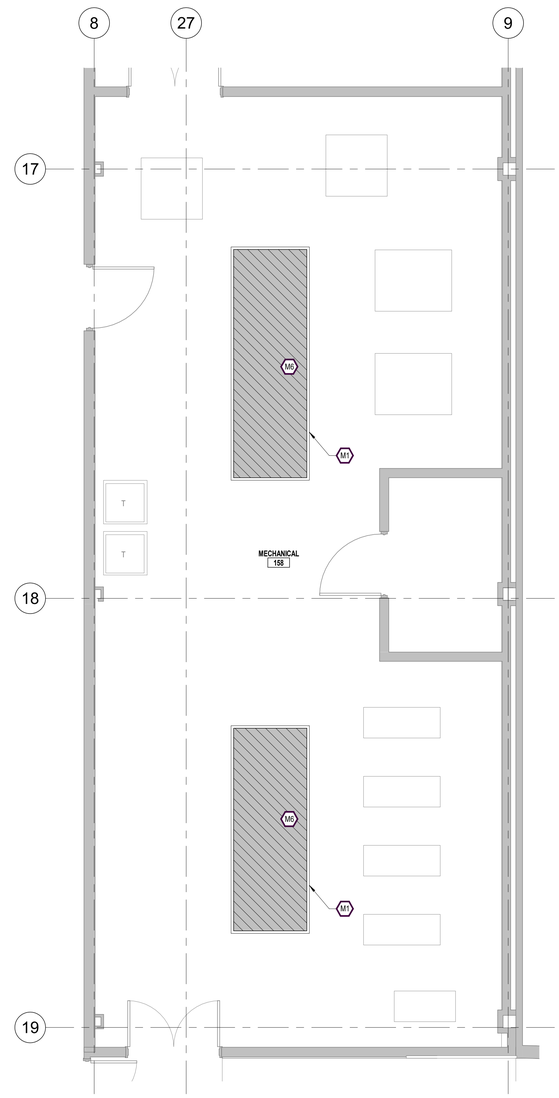
2 AD100/AD100 1ST FLOOR NE MECH 120 - DEMO PLAN
1/4" = 1'-0"



3 AD100/AD100 1ST FLOOR SW MECH 146 - DEMO PLAN
1/4" = 1'-0"



4 AD100/AD100 1ST FLOOR SE MECH 7/ ELEC 163A - DEMO PLAN
1/4" = 1'-0"



5 AD100/AD100 1ST FLOOR SE MECH 158 - DEMO PLAN
1/4" = 1'-0"

KEYNOTES - ENLARGED DEMO

(APPLIES TO SHEETS AD105 - AD107. SEE AD100 FRO GENERAL DEMO NOTES & MECH/ ELEC/ FP FOR ADDITIONAL INFORMATION.)

- M1 HOUSEKEEPING PAD TO REMAIN.
- M2 MECHANICAL UNIT TO BE REMOVED, PREP FOR NEW - SEE MECH.
- M3 FLOOR DRAIN TO REMAIN - SEE MECH FOR REMOVAL OF CONDENSATE LINE.
- M4 DUCTWORK TO BE REMOVED - SEE MECH FOR EXTENTS. SEE FD FOR SMOKE DETECTOR REQUIREMENTS.
- M5 OVERHEAD DUCTWORK TO BE REMOVED - SEE MECH SEE FD FOR SMOKE DETECTOR REQUIREMENTS.
- M6 SHEET METAL PLENUM & DUCTWORK TO BE REMOVED. PREP EXIST LOUVER FOR NEW BLANK OFF PLATE.
- M7 FIRE SPRINKLER & PIPING TO BE ADJUSTED / REPLACED FOR NEW DUCTWORK ACCESS - SEE FIRE PROTECTION.
- M8 ELECTRICAL EQUIPMENT TO BE REMOVED - SEE ELEC.
- M9 SAW CUT HOLE IN SECOND FLOOR FOR NEW DUCTWORK RUNNING BETWEEN FIRST FLOOR & SECOND FLOOR MECH ROOMS. CONTRACTOR TO PROVIDE BRACING OF FLOOR DURING THIS WORK. OPEN WALLS ON FIRST FLOOR TO ALLOW FOR CONNECTIONS TO EXISTING STRUCTURE - SEE NEW WORK PLANS FOR SIZING.

LEGEND - ENLARGED MECH DEMO

- ITEMS TO BE DEMOLISHED
- X — DEMOLITION KEYNOTE
- ITEMS TO BE REMOVED
- VFD — VARIABLE FREQUENCY DRIVE
- JCI — CONTROLS PANEL
- FD — FIRE ALARM
- ADV — SECURITY PANEL
- T — TRANSFORMER
- FD — FLOOR DRAIN
- CO — CLEAN OUT TO REMAIN
- PIPING

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I.C. THOMASSON & ASSOCIATES, INC.

MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP

REGISTERED ARCHITECT 4202 STATE OF MISSISSIPPI
Robert L. Keith
7-20-24

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — BILOXI, MISSISSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

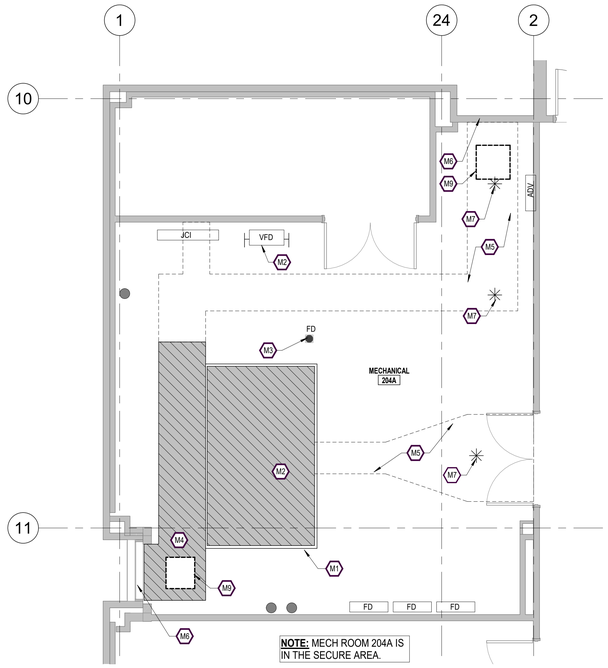
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)

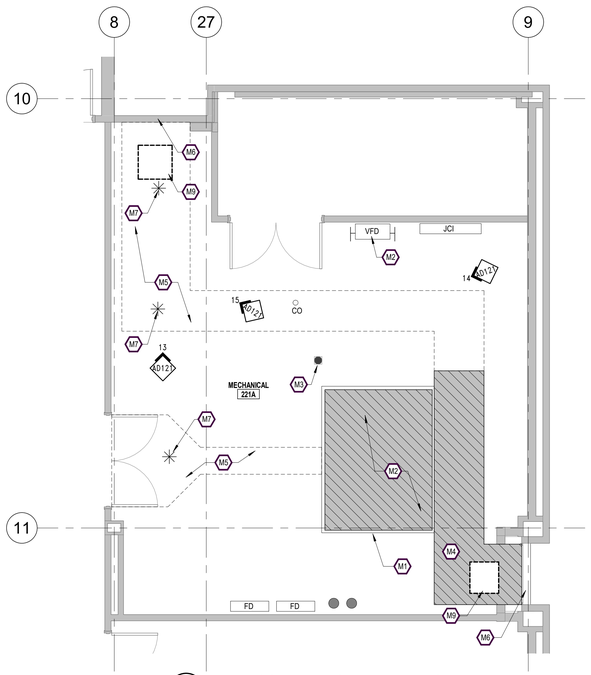
RECOMMENDED: (Chief of Engineering)
G. REED

FACILITY NUMBER: B1002

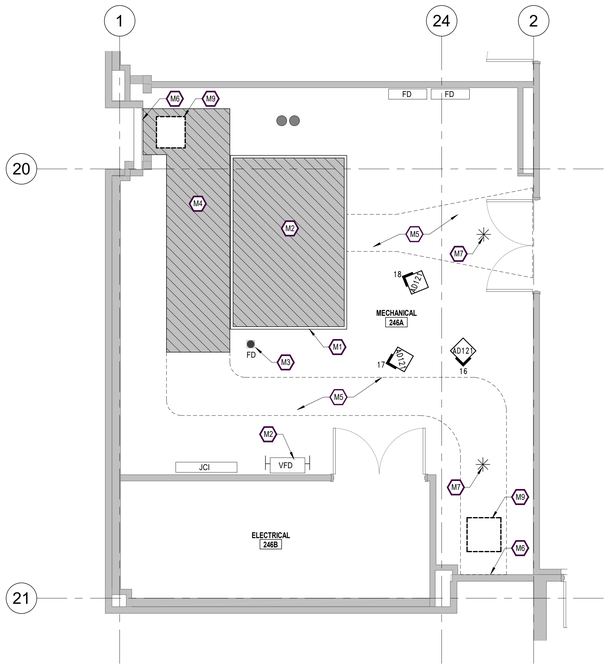
DRAWN: Author
PROJECT NUMBER: MAHG 17-1095
SHEET NAME: ENLARGED DEMOLITION - MECHANICAL ROOMS - 1ST FLOOR
DRAWING NUMBER: AD105
CHECKED: KLK
DATE: 2/20/24
SHEET 8 OF 74



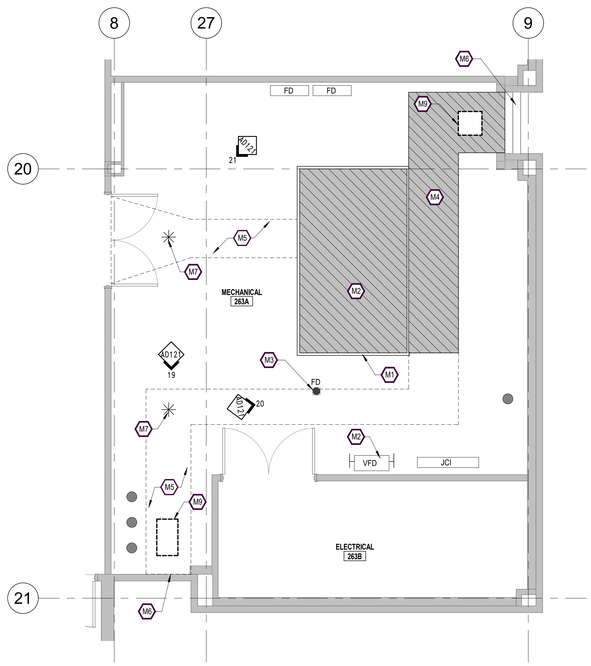
1 AD100-AD107 2ND FLOOR NW MECH 204A - DEMO PLAN
1/4" = 1'-0"



2 AD100-AD107 2ND FLOOR NE MECH 221A - DEMO PLAN
1/4" = 1'-0"



3 AD100-AD107 2ND FLOOR SW MECH 246A - DEMO PLAN
1/4" = 1'-0"



4 AD100-AD107 2ND FLOOR SE MECH 263A - DEMO PLAN
1/4" = 1'-0"

KEYNOTES - ENLARGED DEMO

(APPLIES TO SHEETS AD105 - AD107. SEE AD100 FRO GENERAL DEMO NOTES & MECH/ ELEC/ FP FOR ADDITIONAL INFORMATION.)

- M1 HOUSEKEEPING PAD TO REMAIN.
- M2 MECHANICAL UNIT TO BE REMOVED, PREP FOR NEW - SEE MECH.
- M3 FLOOR DRAIN TO REMAIN - SEE MECH FOR REMOVAL OF CONDENSATE LINE.
- M4 DUCTWORK TO BE REMOVED - SEE MECH FOR EXTENTS. SEE FD FOR SMOKE DETECTOR REQUIREMENTS.
- M5 OVERHEAD DUCTWORK TO BE REMOVED - SEE MECH SEE FD FOR SMOKE DETECTOR REQUIREMENTS.
- M6 SHEET METAL PLENUM & DUCTWORK TO BE REMOVED. PREP EXIST LOUVER FOR NEW BLANK OFF PLATE.
- M7 FIRE SPRINKLER & PIPING TO BE ADJUSTED / REPLACED FOR NEW DUCTWORK ACCESS - SEE FIRE PROTECTION.
- M8 ELECTRICAL EQUIPMENT TO BE REMOVED - SEE ELEC.
- M9 SAW CUT HOLE IN SECOND FLOOR FOR NEW DUCTWORK RUNNING BETWEEN FIRST FLOOR & SECOND FLOOR MECH ROOMS. CONTRACTOR TO PROVIDE BRACING OF FLOOR DURING THIS WORK. OPEN WALLS ON FIRST FLOOR TO ALLOW FOR CONNECTIONS TO EXISTING STRUCTURE - SEE NEW WORK PLANS FOR SIZING .

LEGEND - ENLARGED MECH DEMO

- ITEMS TO BE DEMOLISHED
- X — DEMOLITION KEYNOTE
- ITEMS TO BE REMOVED
- VFD — VARIABLE FREQUENCY DRIVE
- JCI — CONTROLS PANEL
- FD — FIRE ALARM
- ADV — SECURITY PANEL
- T — TRANSFORMER
- FD — FLOOR DRAIN
- CO — CLEAN OUT TO REMAIN
- PIPING

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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP
REGISTERED ARCHITECT
John Cash Reed
4208
1-26-24
STATE OF MISSISSIPPI

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)

RECOMMENDED: (Chief of Engineering)
G. REED

FACILITY NUMBER: B1002

DRAWN: Author
CHECKED: KLK
PROJECT NUMBER: MAHG 17-1095
DATE: 2/20/24
SHEET NAME: ENLARGED DEMOLITION PLANS - MECHANICAL ROOMS - 2ND FLOOR
DRAWING NUMBER: AD106
SHEET 9 OF 74

ENLARGED DEMOLITION NOTES

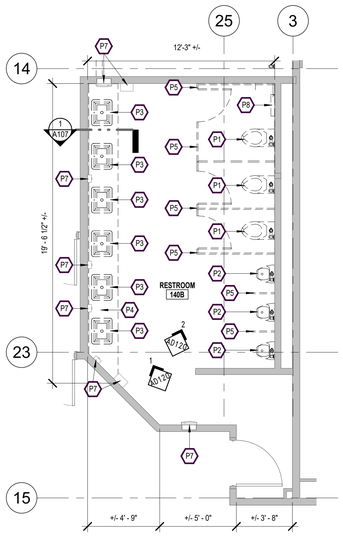
1. SEE MECHANICAL/ PLUMBING DRAWINGS FOR FURTHER INFORMATION ON DEMOLITION & RENOVATION WORK TO OCCUR.
2. EXISTING SOAP DISPENSERS AND PAPER TOWEL DISPENSERS ARE TO REMAIN IN PLACE. REMOVE TOILET SEAT COVER DISPENSERS, TOILET PAPER ROLL DISPENSERS, GRAB BARS, AND SANITARY NAPKIN DISPENSERS. REMOVE ALL MOUNTING ACCESSORIES, AND CAULK HOLES SOLID.
3. ACID CLEAN ALL TILE FLOORS AND WALLS.
4. REMOVE ALL ACT CEILING TILES AND GRID IN TOILET ROOMS AND TEMP SUPPORT ALL CEILING MOUNTING FIXTURES FOR REINSTALLATION. SEE SHEETS A107 & A108 FOR LAYOUT.
5. REMOVE CLEAR ACRYLIC FRAMES & ADHESIVE; RETURN FRAMES TO CONTRACTING OFFICER.

KEYNOTES - PLUMBING DEMOLITION

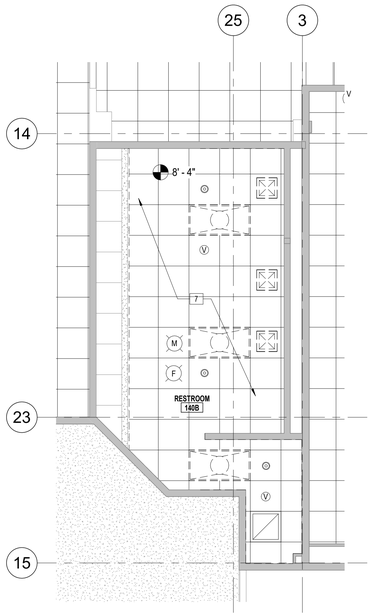
- P1 REMOVE EXISTING WALL-MOUNTED WATER CLOSET FIXTURE IN ITS ENTIRETY - SEE PLUMBING.
- P2 REMOVE EXISTING URINAL IN ITS ENTIRETY - SEE PLUMBING.
- P3 REMOVE EXISTING LAVATORY BOWL, FAUCET & ATTACHMENTS IN THEIR ENTIRETY - SEE PLUMBING.
- P4 REMOVE EXISTING PLAM COUNTERTOP, SPLASH (BACK & SIDE), FASCIA, AND PLYWOOD DECK IN ITS ENTIRETY. PREPARE REMAINING SURFACE FOR NEW DECK AND FINISH. SEE DETAILS SHEET A107.
- P5 REMOVE EXISTING TOILET/ URINAL PARTITIONS, BRACING AND ASSOCIATED ACCESSORIES. FILL PENETRATIONS SOLID WITH COLOR MATCH SEALANT.
- P6 REMOVE EXISTING ELEVATOR PUMPS, MOTORS, & ACCESSORIES IN THEIR ENTIRETY; PREP FOR NEW.
- P7 SOAP/ PAPER TOWEL DISPENSER/ NAPKIN DISPENSER OR TRASH RECEPTACLE TO REMAIN.
- P8 TOILET SEAT COVER DISPENSER TO BE REMOVED. FILL FASTENER HOLES SOLID WITH COLOR MATCHED SEALANT.

BUILDING DEMOLITION LEGEND

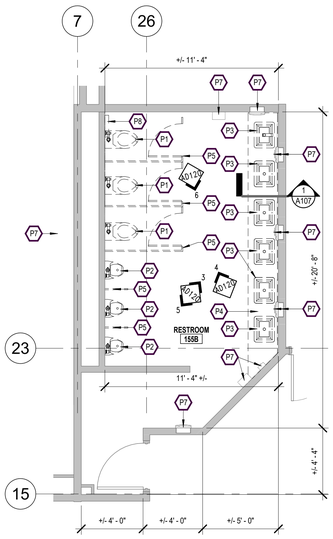
- X 200 X — PHOTO DESIGNATION LOCATION
- ITEMS TO BE DEMOLISHED
- X — DEMOLITION KEYNOTE



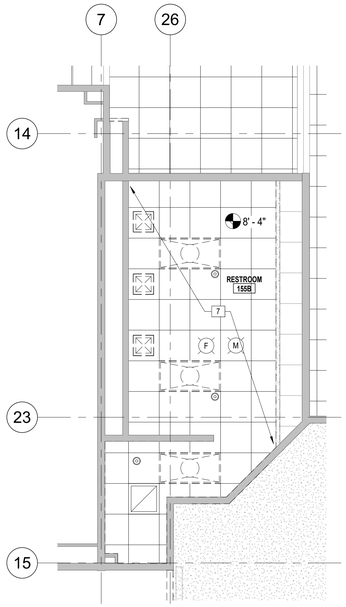
1 AD100 / AD101 — 1ST FLOOR NW RESTROOM - DEMO PLAN
1/4" = 1'-0"



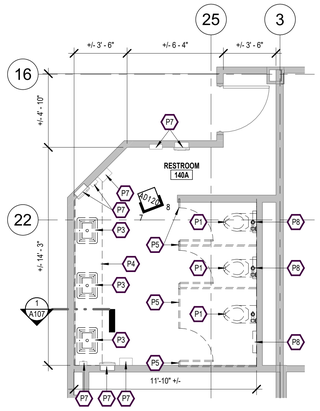
5 AD100 / AD101 — 1ST FLOOR NW RESTROOM DEMO RCP
1/4" = 1'-0"



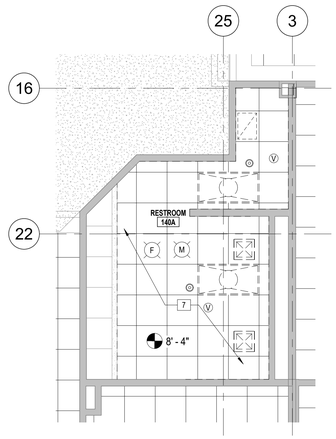
2 AD100 / AD101 — 1ST FLOOR NE RESTROOM - DEMO PLAN
1/4" = 1'-0"



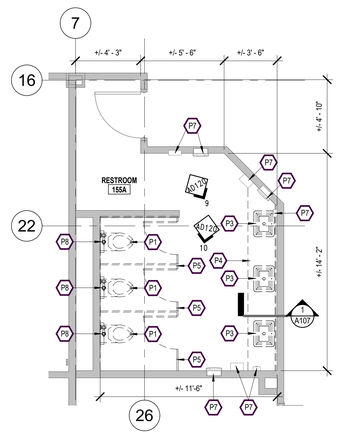
6 AD100 / AD101 — 1ST FLOOR NE RESTROOM DEMO RCP
1/4" = 1'-0"



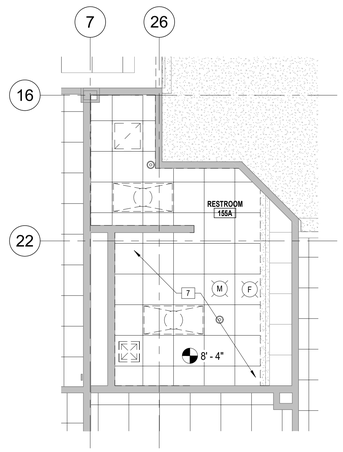
3 AD100 / AD101 — 1ST FLOOR SW RESTROOM - DEMO PLAN
1/4" = 1'-0"



7 AD100 / AD101 — 1ST FLOOR SW RESTROOM DEMO RCP
1/4" = 1'-0"



4 AD100 / AD101 — 1ST FLOOR SE RESTROOM - DEMO PLAN
1/4" = 1'-0"



8 AD100 / AD101 — 1ST FLOOR SE RESTROOM DEMO RCP
1/4" = 1'-0"

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DELL CONSULTING, LLC

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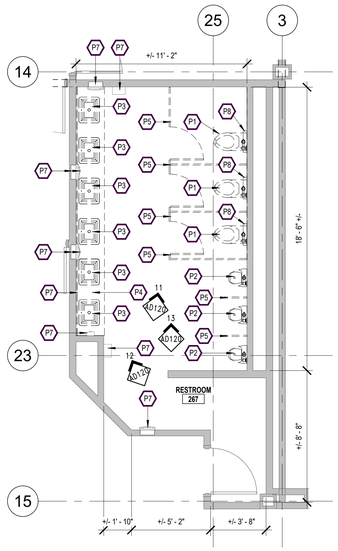
REGISTERED ARCHITECT
KEITH L. KEEGAN
No. 4202
STATE OF MISSISSIPPI
1-20-24

REVISION	DATE	DRAWN	APPROVED

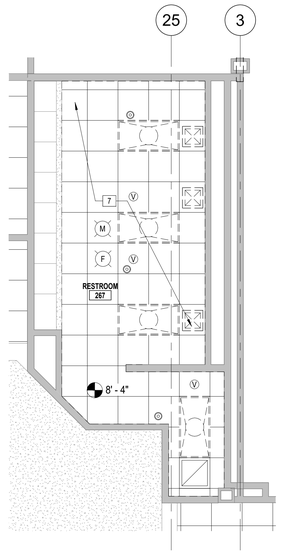
UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI — AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR STENNIS HALL

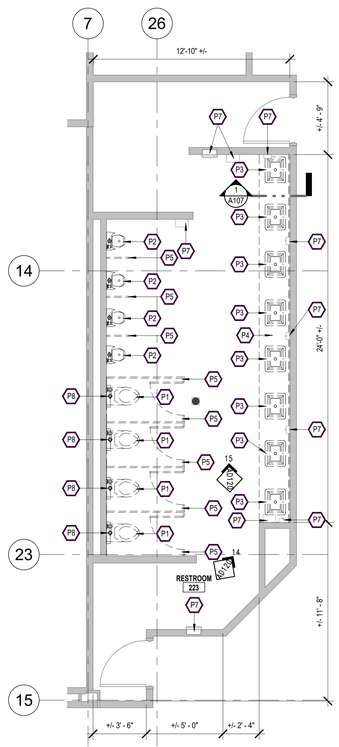
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: HAS / PROJECT NUMBER: MAHG 17-1095	SHEET NAME: ENLARGED DEMOLITION PLANS & RCPS - 1ST FLOOR RESTROOMS	DRAWING NUMBER: AD107
CHECKED: KLK / DATE: 2/20/24		SHEET 10 OF 74



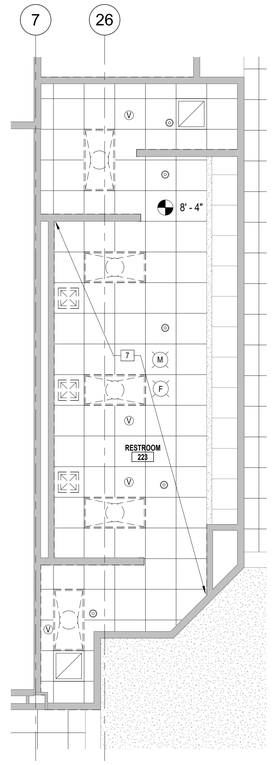
1 AD108/D103 2ND FLOOR NW RESTROOM 267 - DEMO PLAN
1/4" = 1'-0"



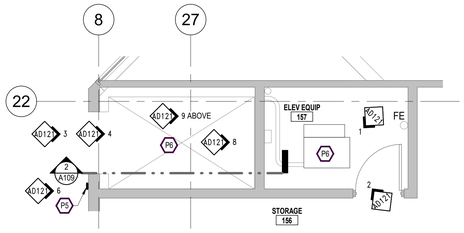
2 AD108/A102 2ND FLOOR NW DEMO RESTROOM 267 RCP
1/4" = 1'-0"



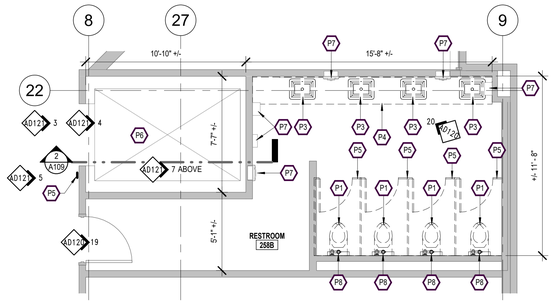
3 AD108/D103 2ND FLOOR NE RESTROOM 223 - DEMO PLAN
1/4" = 1'-0"



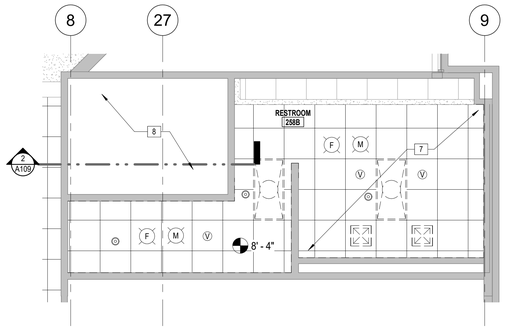
4 AD108/A102 2ND FLOOR NE RESTROOM 223 DEMO RCP
1/4" = 1'-0"



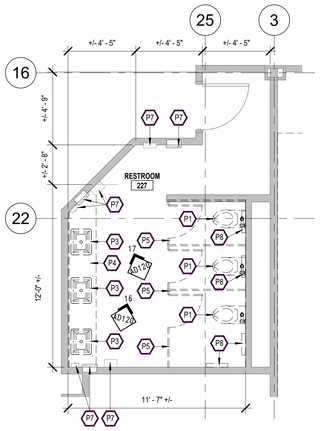
9 AD108/D103 1ST FLOOR ELEVATOR - MECH 157 DEMO PLAN
1/4" = 1'-0"



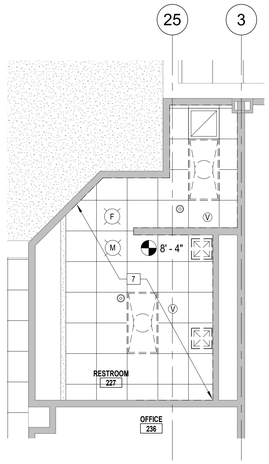
10 AD108/D103 2ND FLOOR SE RESTROOM 258 B- DEMO PLAN
1/4" = 1'-0"



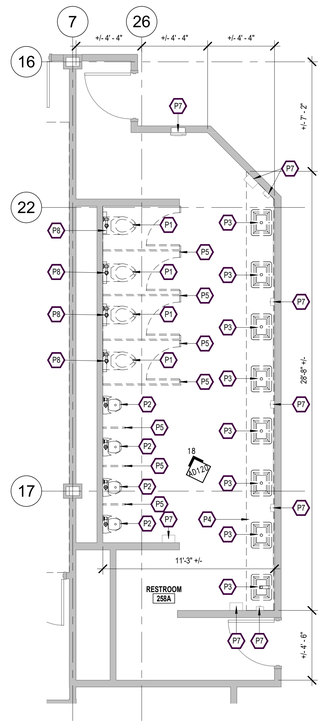
11 AD108/A103 2ND FLOOR SE2 RESTROOM 258B DEMO RCP
1/4" = 1'-0"



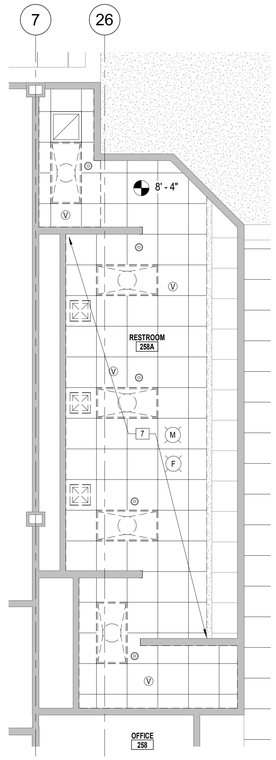
5 AD108/D103 2ND FLOOR SW RESTROOM 227 - DEMO PLAN
1/4" = 1'-0"



6 AD108/A103 2ND FLOOR SW RESTROOM 227 DEMO RCP
1/4" = 1'-0"



7 AD108/D103 2ND FLOOR SE1 RESTROOM 258A - DEMO PLAN
1/4" = 1'-0"



8 AD108/A103 2ND FLOOR SE RESTROOM 258A DEMO RCP
1/4" = 1'-0"

ENLARGED DEMOLITION NOTES

1. SEE MECHANICAL/ PLUMBING DRAWINGS FOR FURTHER INFORMATION ON DEMOLITION & RENOVATION WORK TO OCCUR.
2. EXISTING SOAP DISPENSERS AND PAPER TOWEL DISPENSERS ARE TO REMAIN IN PLACE. REMOVE TOILET SEAT COVER DISPENSERS, TOILET PAPER ROLL DISPENSERS, GRAB BARS, AND SANITARY NAPKIN DISPENSERS. REMOVE ALL MOUNTING ACCESSORIES, AND CAULK HOLES SOLID.
3. ACID CLEAN ALL TILE FLOORS AND WALLS.
4. REMOVE ALL ACT CEILING TILES AND GRID IN TOILET ROOMS AND TEMP SUPPORT ALL CEILING MOUNTING FIXTURES FOR REINSTALLATION. SEE SHEETS A107 & A108 FOR LAYOUT.
5. REMOVE CLEAR ACRYLIC FRAMES & ADHESIVE; RETURN FRAMES TO CONTRACTING OFFICER.

KEYNOTES - PLUMBING DEMOLITION

- P1 REMOVE EXISTING WALL-MOUNTED WATER CLOSET FIXTURE IN ITS ENTIRETY - SEE PLUMBING.
- P2 REMOVE EXISTING URINAL IN ITS ENTIRETY - SEE PLUMBING.
- P3 REMOVE EXISTING LAVATORY BOWL, FAUCET & ATTACHMENTS IN THEIR ENTIRETY - SEE PLUMBING.
- P4 REMOVE EXISTING PLAM COUNTERTOP, SPLASH (BACK & SIDE), FASCIA, AND PLYWOOD DECK IN ITS ENTIRETY. PREPARE REMAINING SURFACE FOR NEW DECK AND FINISH. SEE DETAILS SHEET A107.
- P5 REMOVE EXISTING TOILET/ URINAL PARTITIONS, BRACING AND ASSOCIATED ACCESSORIES. FILL PENETRATIONS SOLID WITH COLOR MATCH SEALANT.
- P6 REMOVE EXISTING ELEVATOR PUMPS, MOTORS, & ACCESSORIES IN THEIR ENTIRETY; PREP FOR NEW.
- P7 SOAP/ PAPER TOWEL DISPENSER/ NAPKIN DISPENSER OR TRASH RECEPTACLE TO REMAIN.
- P8 TOILET SEAT COVER DISPENSER TO BE REMOVED. FILL FASTENER HOLES SOLID WITH COLOR MATCHED SEALANT.

BUILDING DEMOLITION LEGEND

- X 200 X — PHOTO DESIGNATION LOCATION
- ITEMS TO BE DEMOLISHED
- X — DEMOLITION KEYNOTE

ARCHITECT

EGH ARCHITECTS
1091 TOMMY MUNRO DR.
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ENGINEER

FIRE PROTECTION ENGINEERING:
I.C. THOMASSON & ASSOCIATES, INC.

MECHANICAL, ELECTRICAL & TELECOMM ENGINEER:
DELL CONSULTING, LLC

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REGISTERED ARCHITECT 4205 STATE OF MISSISSIPPI

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILDG: ——— MSSS/SSFP1 ———
OFFICE OF CIVIL ENGINEERS

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)

RECOMMENDED: (Chief of Engineering)
G. REED

FACILITY NUMBER: B1002

DRAWN:	PROJECT NUMBER:	SHEET NAME:
HAS	MAHG 17-1095	ENLARGED DEMOLITION PLANS & RCPS - 2ND FLOOR RESTROOMS
CHECKED:	DATE:	
KLK	2/20/24	

DRAWING NUMBER: AD108

SHEET 11 OF 74

DEMO REFERENCE PHOTO NOTES:

1. PHOTOS ARE FOR GENERAL REFERENCE ONLY & DO NOT DEPICT ALL CONDITIONS AND/OR ITEMS TO BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE FOR FULL ANALYSIS OF EXISTING CONDITIONS.
2. SEE ENLARGED DEMO PLANS D002 FOR GENERAL LOCATION AND DIRECTIONAL VIEW OF PHOTOS.
3. PHOTOGRAPHS ON SHEET ARE MOST LEGIBLE WHEN PRINTED IN COLOR.

1 AD120 / AD120 RR 140B VIEW 1
1/4" = 1'-0"

2 AD120 / AD120 RR 140B VIEW 2
1/4" = 1'-0"

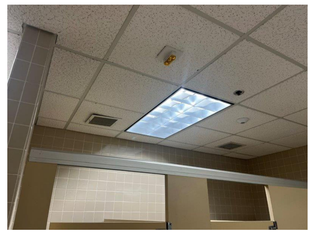
3 AD120 / AD120 RR 155B LAVS
1/4" = 1'-0"

4 AD120 / AD120 RR 155B STALLS
1/4" = 1'-0"

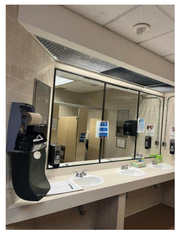
5 AD120 / AD120 RR 155B URINALS
1/4" = 1'-0"

6 AD120 / AD120 RR 155B CEILING
1/4" = 1'-0"

7 AD120 / AD120 RR 140A LAVS
1/4" = 1'-0"



8 AD120 / AD120 RR 140A CEILING
1/4" = 1'-0"

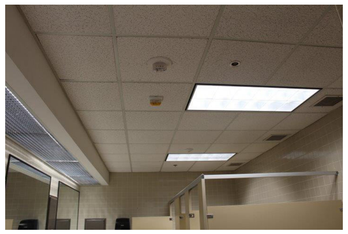


9 AD120 / AD120 RR 155A LAVS
1/4" = 1'-0"

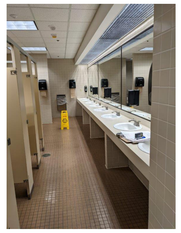
10 AD120 / AD120 RR 155A CEILING
1/4" = 1'-0"

11 AD120 / AD120 RR 267 STALLS
1/4" = 1'-0"

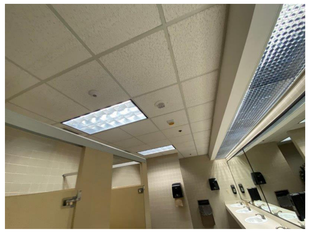
12 AD120 / AD120 RR 267 LAVS
1/4" = 1'-0"



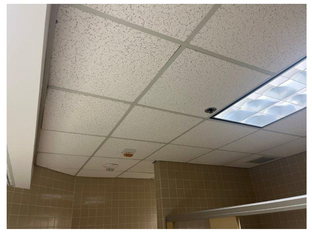
13 AD120 / AD120 RR 267 CEILING
1/4" = 1'-0"



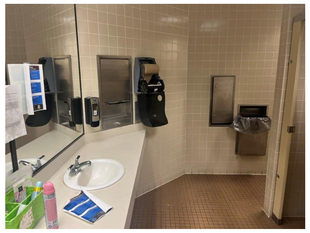
14 AD120 / AD120 RR 223 LAVS
1/4" = 1'-0"



15 AD120 / AD120 RR 223 CEILING
1/4" = 1'-0"

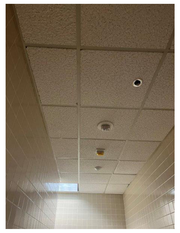


16 AD120 / AD120 RR 227 CEILING
1/4" = 1'-0"



17 AD120 / AD120 RR 227 LAVS
1/4" = 1'-0"

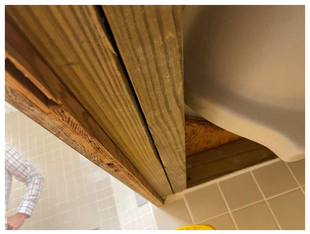
18 AD120 / AD120 RR 258A
1/4" = 1'-0"



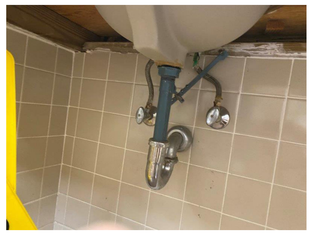
19 AD120 / AD120 RR 258B CEILING
1/4" = 1'-0"

20 AD120 / AD120 RR 258B LAVS
1/4" = 1'-0"

21 AD120 PLAM COUNTERTOP1
1/4" = 1'-0"



22 AD120 PLAM COUNTERTOP2
1/4" = 1'-0"



23 AD120 PLAM COUNTERTOP3
1/4" = 1'-0"

ARCHITECT

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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
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REGISTERED ARCHITECT
Kelly Lynn Kirk
4202
4-2-24
STATE OF MISSISSIPPI

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MS39/SSPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)

RECOMMENDED: (Chief of Engineering)
G. REED

FACILITY NUMBER: B1002

DRAWN: Author
CHECKED: KLK
PROJECT NUMBER: MAHG 17-1095
DATE: 2/20/24
SHEET NAME: RESTROOM DEMOLITION PHOTOS
DRAWING NUMBER: AD120
SHEET 12 OF 74

DEMO REFERENCE PHOTO NOTES:

1. PHOTOS ARE FOR GENERAL REFERENCE ONLY & DO NOT DEPICT ALL CONDITIONS AND/OR ITEMS TO BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE FOR FULL ANALYSIS OF EXISTING CONDITIONS.
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1 AD121 AD120 ELEVATOR EQUIP. RM 1
NOT TO SCALE

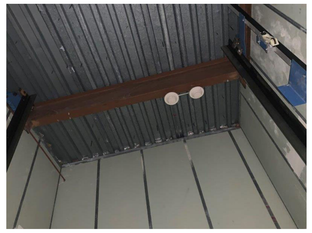
2 AD121 AD120 ELEVATOR EQUIP. RM 2
NOT TO SCALE

3 AD121 AD120 ELEVATOR DOORS
NOT TO SCALE

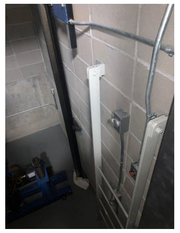
4 AD121 AD120 ELEVATOR INTERIOR
NOT TO SCALE

5 AD121 AD120 ELEVATOR BUTTON
1/4" = 1'-0"

6 AD121 AD120 ELEVATOR BUTTON 2
1/4" = 1'-0"



7 AD121 AD120 ELEVATOR LIGHT
1/4" = 1'-0"

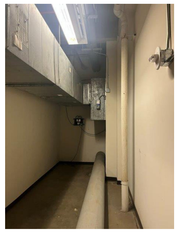


8 AD121 AD120 ELEVATOR EQUIP
1/4" = 1'-0"

9 AD121 AD120 ELEVATOR EQUIP 2
1/4" = 1'-0"

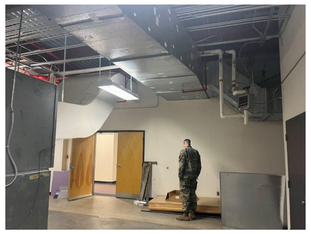
10 AD121 AD120 MECH 7 - VIEW 1
NOT TO SCALE

11 AD121 AD120 MECH 7 - VIEW 2
NOT TO SCALE



12 AD121 AD120 MECH 7 - VIEW 3
NOT TO SCALE

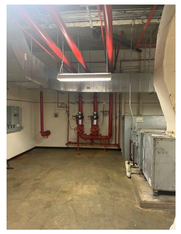
13 AD121 AD120 MECH 221A - VIEW 1
NOT TO SCALE



14 AD121 AD120 MECH 221A- VIEW 2
NOT TO SCALE

15 AD121 AD120 MECH 221A - VIEW 3
NOT TO SCALE

16 AD121 AD120 MECH 246A VIEW 1
NOT TO SCALE

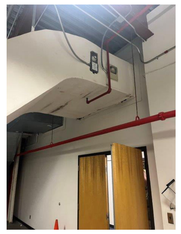


17 AD121 AD120 MECH 246A - VIEW 2
NOT TO SCALE

18 AD121 AD120 MECH 246A - VIEW 3
NOT TO SCALE

19 AD121 AD120 MECH 263A - VIEW1
NOT TO SCALE

20 AD121 AD120 MECH 263A - VIEW 2
NOT TO SCALE



21 AD121 AD120 MECH 263A - VIEW 3
NOT TO SCALE

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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

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REGISTERED ARCHITECT 4202 STATE OF MISSISSIPPI
4-2-24

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering)	FACILITY NUMBER: B1002
	G. REED	DRAWING NUMBER: AD121
DRAWN: Author	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: ELEVATOR & MECH ROOM DEMOLITION PHOTOS
CHECKED: KLK	DATE: 2/20/24	SHEET 13 OF 74

GENERAL CONSTRUCTION NOTES

SEE SHEETS A105 THRU A108 FOR CONSTRUCTION KEY NOTES // SEE SHEETS AD105 THRU AD108 FOR DEMOLITION KEY NOTES // SEE SHEET AD100 FOR DEMOLITION GENERAL NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE ONSITE CONDITIONS AND PERFORM ALL NECESSARY WORK TO COMPLETE THE PROJECT.

B. CONTRACTOR SHALL VISIT THE SITE TO VERIFY AND INVESTIGATE EXISTING CONDITIONS WHICH AFFECT THE WORK, WHETHER SHOWN ON THE DRAWINGS OR NOT, AND SHALL BECOME FAMILIARIZED WITH THE EXISTING CONDITIONS, EQUIPMENT LOCATIONS, AND CONTRACT DOCUMENTS PRIOR TO BIDDING THE WORK. ALL APPARENT DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER NO FEWER THAN FIVE (5) DAYS PRIOR TO THE BID TIME SO THAT APPROPRIATE AMENDMENTS CAN BE MADE.

C. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE CONTRACTING OFFICER BEFORE CONTINUING WITH CONSTRUCTION.

D. FIELD VERIFY ALL OPENING DIMENSIONS PRIOR TO FRAME FABRICATION AND INSTALLATION.

E. CONTRACTOR IS TO TAKE PRECAUTIONS TO AVOID DAMAGE TO ADJACENT SURFACES WHEN REMOVING MATERIALS DURING DEMOLITION OR WHEN INSTALLING MATERIALS DURING REPAIR WORK. CONTRACTOR SHALL PATCH AND REPAIR ALL ABUTTING SURFACES OF ITEMS THAT ARE DAMAGED DURING DEMO OR INSTALLATION OF NEW MATERIALS. PREPARE EACH SURFACE TO RECEIVE REPAIR OR FINISH AS REQUIRED FOR DAMAGED PORTION OF WORK.

F. ALL MATERIALS BEING REPLACED OR PATCHED SHALL MATCH ADJACENT MATERIALS IN COLOR, MATERIAL, FINISH AND TEXTURE. CUSTOM COLORS MAY BE REQUIRED. PREPARE EACH SURFACE AND ADJACENT SURFACES AS REQUIRED TO RECEIVE NEW CONSTRUCTION AND/OR FINISH AS INDICATED ON DOCUMENTS OR AS REQUIRED FOR A COMPLETE INSTALL.

G. ALL EXTERIOR PENETRATIONS (INCLUDING ABANDONED MECHANICAL / PLUMBING / ELECTRICAL / COMM PENETRATIONS) SHALL BE PROPERLY INFILLED AND/OR SEALED TO PREVENT ANY WATER OR AIR PENETRATION INTO BUILDING.

H. CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE ONSITE CONDITIONS AND PERFORM ALL NECESSARY WORK TO COMPLETE THE PROJECT.

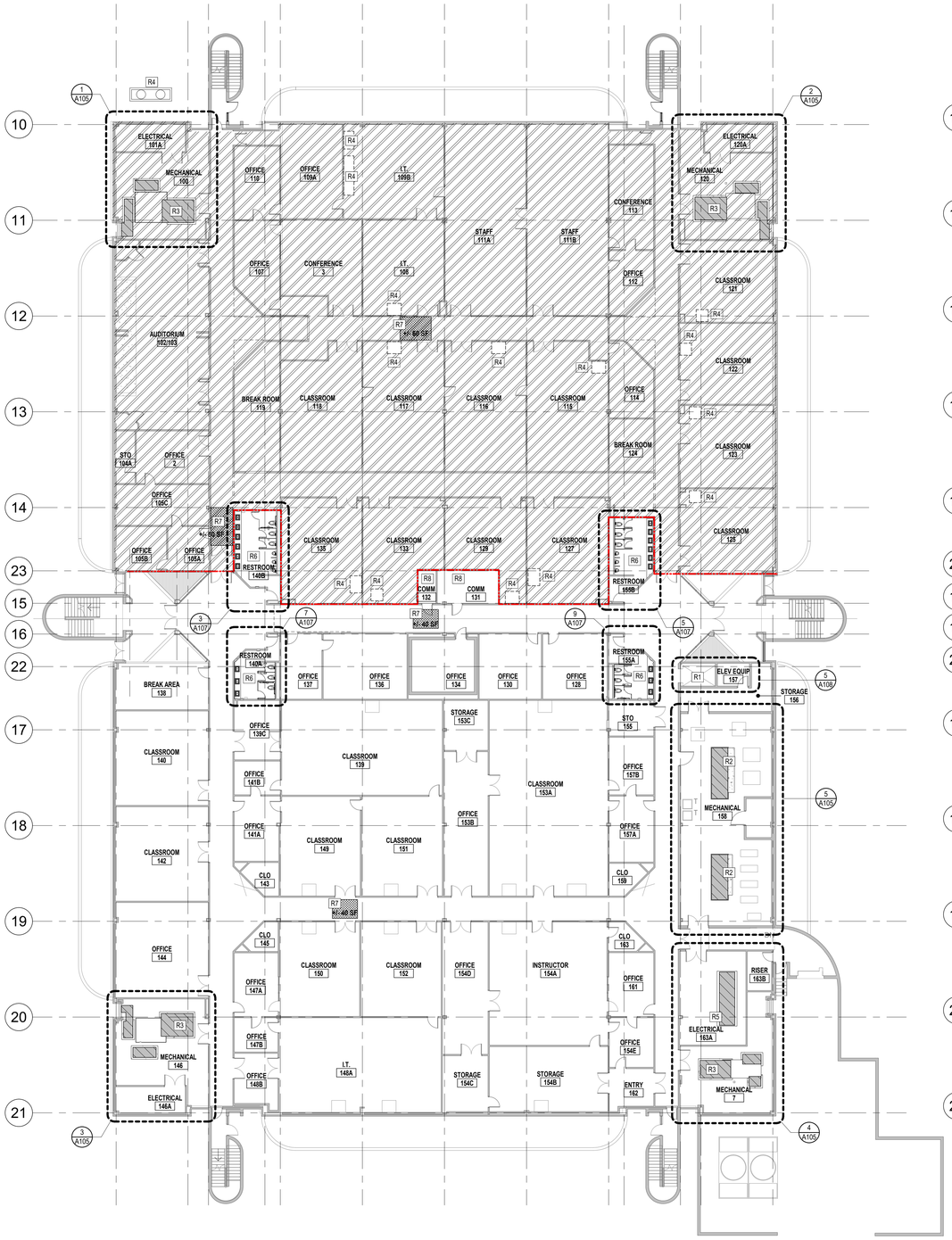
I. ALL INFORMATION IS BASED ON FIELD OBSERVATIONS AND ARCHIVAL DOCUMENTS AND MAY NOT REFLECT ACTUAL FIELD CONDITIONS. UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN DRAWINGS DEPICTING EXISTING CONDITIONS OR UPON UNKNOWN CONDITIONS DETRIMENTAL TO THE COMPLETION OF THE WORK AS INDICATED IN THE DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER, IN WRITING, OF THE CONDITION IN QUESTION BEFORE PROCEEDING WITH WORK IN THAT AREA.

J. CONTRACTOR IS TO ENSURE THAT ALL WORK AREAS ARE CLEANED AT THE END OF EACH WORKDAY.

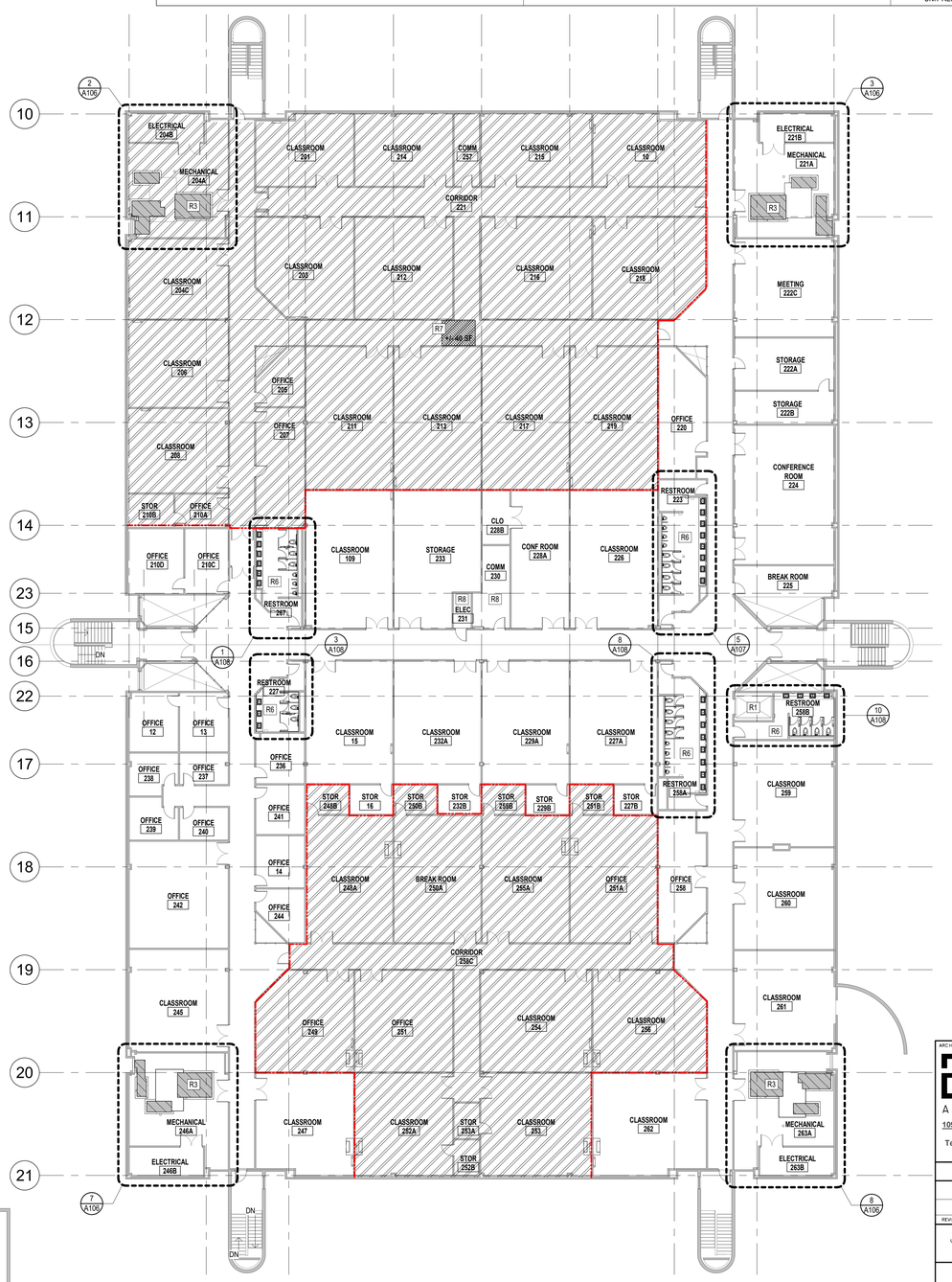
K. DEMOLITION MATERIALS AND WASTE SHALL BE DISPOSED OF OFF-SITE IN A LEGAL LANDFILL. STOCKPILING OF WASTE ON-SITE IS NOT PERMITTED.

L. CONTRACTOR SHALL MAINTAIN SAFE METHODS OF EGRESS FOR BUILDINGS AND SURROUNDING SITE AREA DURING CONSTRUCTION.

M. CONTRACTOR TO INCLUDE REMOVAL AND INSTALLATION PF 48 SF OF MODULAR CARPET TILE IN SERVER ROOM 108 & 20 SF OF ACOUSTICAL CEILING TILE IN SERVER ROOM 109B @ CRAC UNIT REPLACED AND INSTALLED.



1 A105/A106 1ST FLOOR OVERALL FLOOR PLAN - NEW WORK
1/16" = 1'-0"



2 A105/A106 2ND FLOOR OVERALL PLAN - NEW WORK
1/16" = 1'-0"

NORTH

16' 0' 16' 32'

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

KEYNOTES - OVERALL RENO

R1	PROVIDE & INSTALL NEW ELEVATOR EQUIPMENT - SEE ELEC FOR ADDITIONAL INFORMATION.
R2	INSTALL NEW CHILLER - SEE MECH.
R3	PROVIDE & INSTALL NEW HVAC UNITS AND ASSOCIATED EQUIPMENT - MECH AND ELEC.
R4	PROVIDE & INSTALL NEW UNITS - SEE MECH.
R5	REMOVE MDP - SEE ELEC
R6	ADJUST RESTROOMS - SEE ENLARGED PLANS AND PLUMBING
R7	REHANG EXISTING CEILING GRID TO PROVIDE LEVEL INSTALLATION WITH CLEARANCE FOR EXISTING FIRE SUPPRESSION HEADS. REINSTALL EXISTING CEILING TILES AND ASSOCIATED EQUIPMENT.
R8	PROVIDE TEMP HVAC DURING THE WORK - SEE MECH.

FLOOR PLAN LEGEND

- SECURE AREAS OF FACILITY
- EXISTING WALL
- NEW COMPUTER ROOM UNIT - SEE MECH
- NEW AIR HANDLING UNIT - SEE MECH
- CEILING TILES/ HANGERS TO BE ADJUSTED

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ENGINEER:
FIRE PROTECTION ENGINEERING:
I.C. THOMASSON & ASSOCIATES, INC.
MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

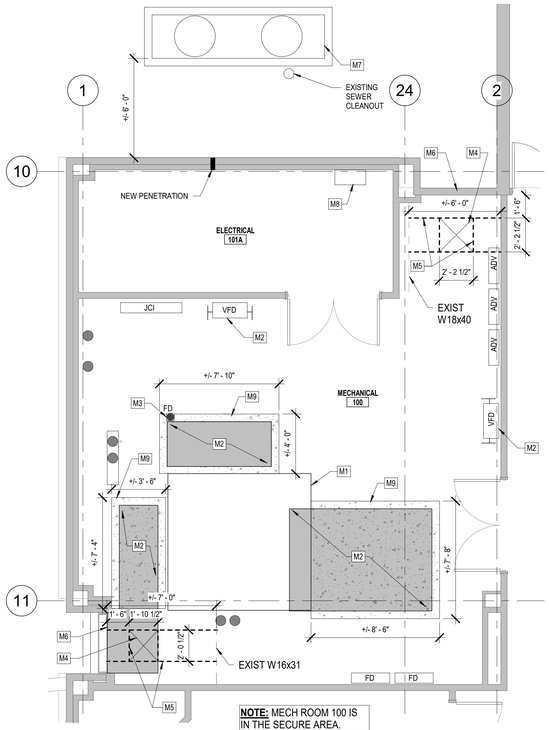
STAMP: REGISTERED ARCHITECT — STEVEN C. REED — 4202 — STATE OF MISSISSIPPI

REVISION	DATE		DRAWN	APPROVED

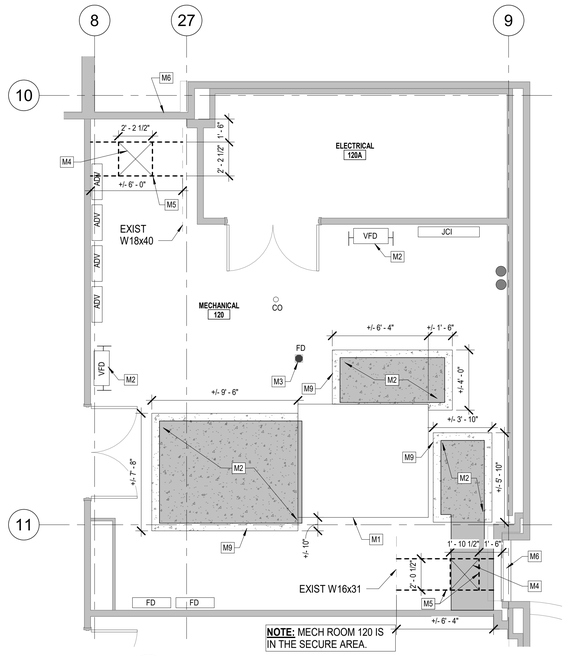
UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — BILOXI — MISSISSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR STENNIS HALL

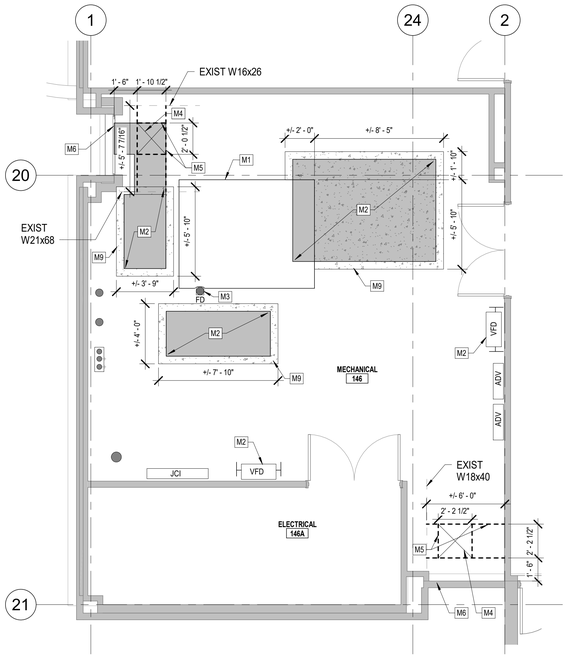
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: CFW	PROJECT NUMBER: MAHG 17-1065	SHEET NAME: OVERALL FLOOR PLANS	DRAWING NUMBER: A100
CHECKED: KLK	DATE: 2/20/24	SHEET 14 OF 74



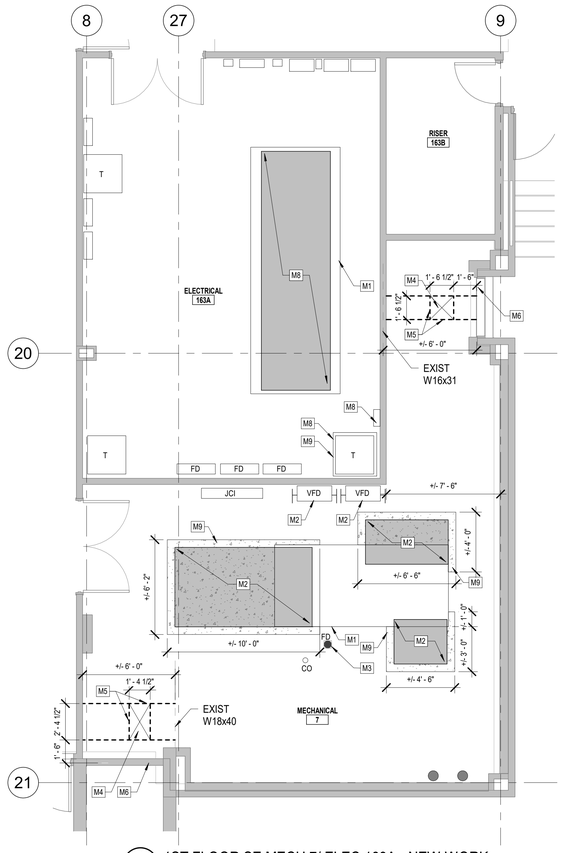
1 A100 A100 1ST FLOOR NW MECH 100 - NEW WORK
1/4" = 1'-0"



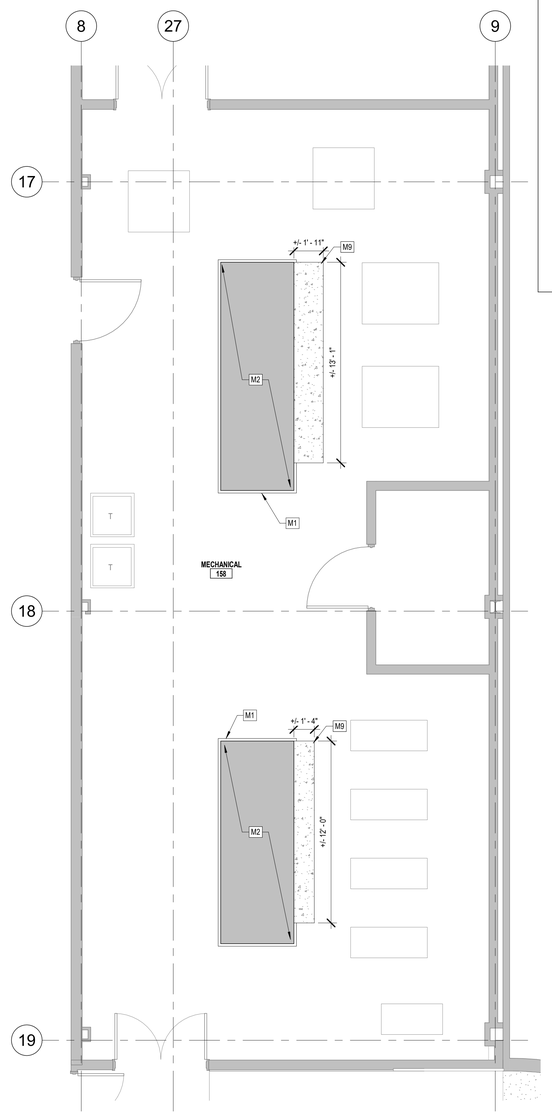
2 A100 A100 1ST FLOOR NE MECH 120 - NEW WORK
1/4" = 1'-0"



3 A100 A100 1ST FLOOR SW MECH 146 - NEW WORK
1/4" = 1'-0"



4 A100 A100 1ST FLOOR SE MECH 7/ ELEC 163A - NEW WORK
1/4" = 1'-0"



5 A100 A100 1ST FLOOR SE MECH 158 - NEW WORK
1/4" = 1'-0"

KEYNOTES - ENLARGED MECH RENO

M1	EXISTING HOUSEKEEPING PAD - MODIFY FOR NEW UNIT - SEE MECH.
M2	NEW HVAC UNIT - SEE MECH.
M3	RUN CONDENSATE LINE TO EXISTING FLOOR DRAIN - SEE MECH .
M4	NEW FLOOR PENETRATION IN SECOND FLOOR CONC DECK - SEE SHEET A106 FOR SUPPORT DETAILS. SEE MECH.
M5	STRUCTURAL STL FRAMING AT UNDERSIDE OF CONC DECK ABOVE. SEE 2ND FLOOR ENLARGED PLANS FOR LOCATIONS AND SIZES OF FLOOR PENETRATIONS IN 2ND FLOOR CONC DECK. PATCH ADJACENT MATERIALS AFTER CONNECTING TO EXIST STRUCTURE.
M6	PROVIDE & INSTALL PARTIAL BLANK OFF PANEL & PLENUM INTAKE @ 10'-0" AFF @ FIRST FLOOR LOCATIONS TYP - SEE MECH.
M7	NEW DX CONDENSING UNIT - SEE MECH.
M8	PROVIDE & INSTALL ELECTRICAL EQUIPMENT - SEE ELEC.
M9	NEW HOUSEKEEPING PAD.

LEGEND - ENLARGED MECH RENO

	NEW DUCTWORK OVERHEAD
X	RENOVATION KEYNOTE
	NEW MECHANICAL EQUIPMENT
VFD	VARIABLE FREQUENCY DRIVE
JCI	CONTROLS PANEL
FD	FIRE ALARM
ADV	SECURITY PANEL
T	TRANSFORMER
FD	FLOOR DRAIN
CO	CLEAN OUT TO REMAIN
	PIPING
	NEW/ ENLARGED HOUSEKEEPING PAD
	2ND FLOOR CONC DECK PENETRATION (SEE DIMENSIONS & DETAILS A106)
	STRUCTURAL STEEL FRAMING (SEE DETAILS A106)

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DELL CONSULTING, LLC

STAMP: REGISTERED ARCHITECT 4200 STATE OF MISSISSIPPI 1-20-24

REVISION	DATE		DRAWN	APPROVED

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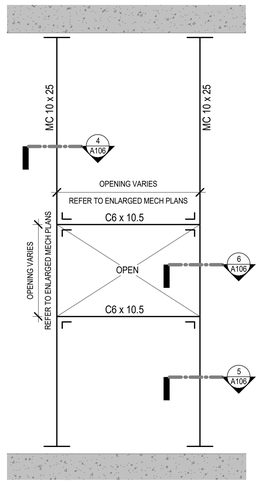
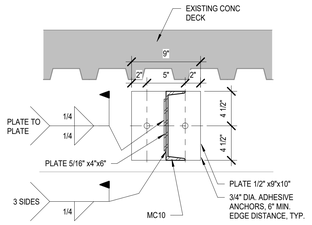
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

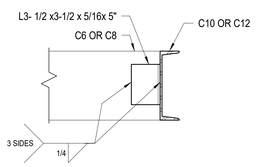
SUBMITTED: (Chief of Contracts Design)		RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: HAS	PROJECT NUMBER: MAHG 17-1065	SHEET NAME: ENLARGED RENOVATION PLANS - MECHANICAL ROOMS - 1ST FLOOR	DRAWING NUMBER: A105
CHECKED: KLK	DATE: 2/20/24		SHEET 15 OF 74



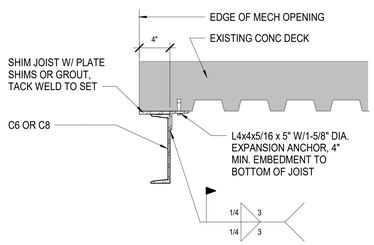
1 A106 FRAMING PLAN FOR MECH OPENINGS
1" = 1'-0"



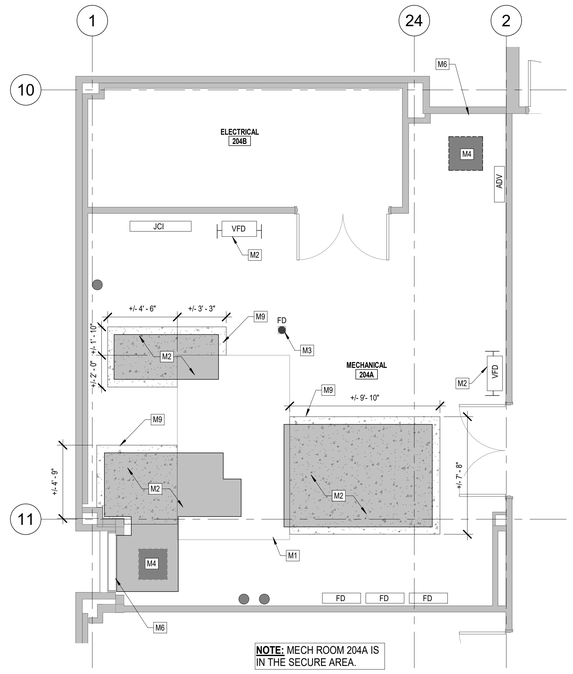
4 A106 MC10 TO EXISTING BEAM DETAIL
1 1/2" = 1'-0"



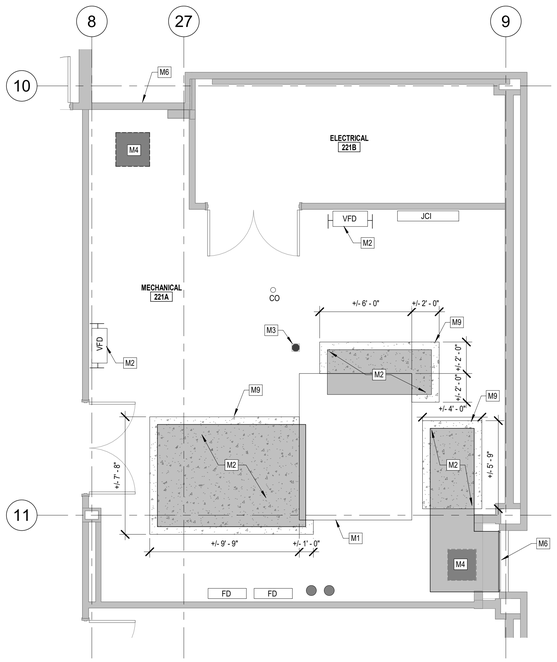
5 A106 TYP. CHANNEL TO CHANNEL DETAIL
1 1/2" = 1'-0"



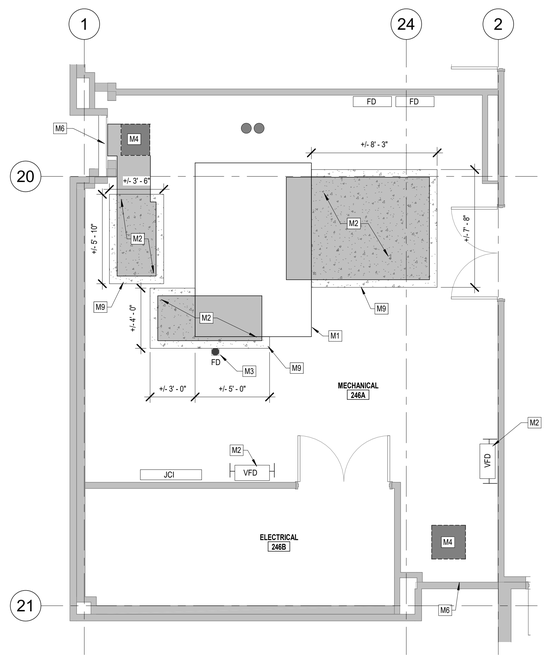
6 A106 JOIST SUPPORT @ MECH OPENING
1 1/2" = 1'-0"



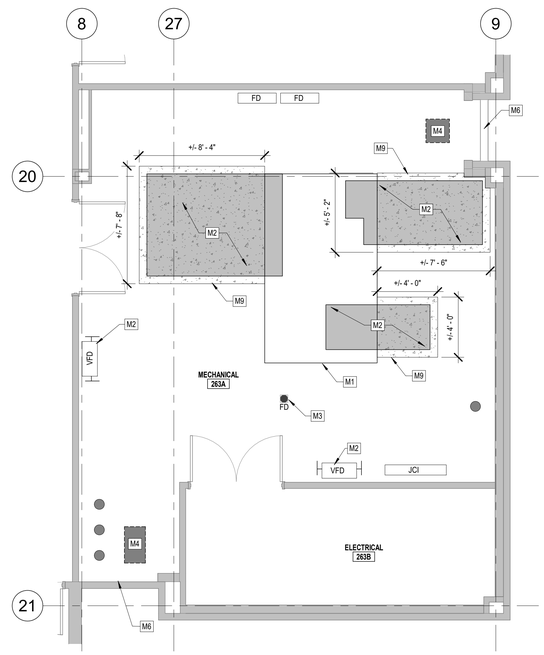
2 A106 A100 2ND FLOOR NW MECH ROOM - NEW WORK
1/4" = 1'-0"



3 A106 A100 2ND FLOOR NE MECH ROOM - NEW WORK
1/4" = 1'-0"



7 A106 A100 2ND FLOOR SW MECH ROOM - NEW WORK
1/4" = 1'-0"



8 A106 A100 2ND FLOOR SE MECH ROOM - NEW WORK
1/4" = 1'-0"

KEYNOTES - ENLARGED MECH RENO

M1	EXISTING HOUSEKEEPING PAD - MODIFY FOR NEW UNIT - SEE MECH.
M2	NEW HVAC UNIT - SEE MECH.
M3	RUN CONDENSATE LINE TO EXISTING FLOOR DRAIN - SEE MECH .
M4	NEW FLOOR PENETRATION IN SECOND FLOOR CONC DECK - SEE SHEET A106 FOR SUPPORT DETAILS. SEE MECH.
M5	STRUCTURAL STL FRAMING AT UNDERSIDE OF CONC DECK ABOVE. SEE 2ND FLOOR ENLARGED PLANS FOR LOCATIONS AND SIZES OF FLOOR PENETRATIONS IN 2ND FLOOR CONC DECK. PATCH ADJACENT MATERIALS AFTER CONNECTING TO EXIST STRUCTURE.
M6	PROVIDE & INSTALL PARTIAL BLANK OFF PANEL & PLENUM INTAKE @ 10'-0" AFF @ FIRST FLOOR LOCATIONS TYP - SEE MECH.
M7	NEW DX CONDENSING UNIT - SEE MECH.
M8	PROVIDE & INSTALL ELECTRICAL EQUIPMENT - SEE ELEC.
M9	NEW HOUSEKEEPING PAD.

LEGEND - ENLARGED MECH RENO

	NEW DUCTWORK OVERHEAD
X	RENOVATION KEYNOTE
	NEW MECHANICAL EQUIPMENT
VFD	VARIABLE FREQUENCY DRIVE
JCI	CONTROLS PANEL
FD	FIRE ALARM
ADV	SECURITY PANEL
T	TRANSFORMER
FD	FLOOR DRAIN
CO	CLEAN OUT TO REMAIN
	PIPING
	NEW/ ENLARGED HOUSEKEEPING PAD
	2ND FLOOR CONC DECK PENETRATION (SEE DIMENSIONS & DETAILS A106)
	STRUCTURAL STEEL FRAMING (SEE DETAILS A106)

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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP
REGISTERED ARCHITECT
KEITH LARSEN KLK
4202
2-20-24
STATE OF MISSISSIPPI

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — MISSISSIPPI
OFFICE OF CIVIL ENGINEERS

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Chief of Engineering) G. REED
FACILITY NUMBER: B1002
DRAWN: HAS
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SHEET NAME: ENLARGED RENOVATION PLANS - MECHANICAL ROOMS - 2ND FLOOR
DRAWING NUMBER: A106
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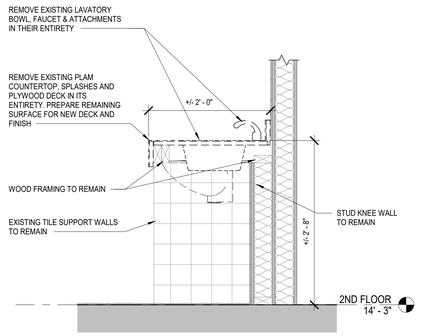
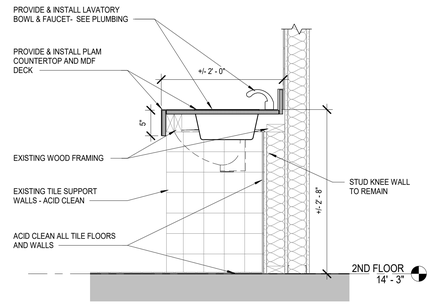
SHEET 16 OF 74



1 A107 A107 DETAIL- PLAM COUNTERTOP DEMO
1" = 1'-0"



2 A107 A107 DETAIL- PLAM COUNTERTOP RENO
1" = 1'-0"

KEYNOTES - RENOVATION

1. PROVIDE & INSTALL NEW WALL-MOUNTED (MATCH EXIST REMOVED U.N.O) WATER CLOSET FIXTURE IN ITS ENTIRETY; SEE PLUMB.
2. PROVIDE & INSTALL URINAL; SEE PLUMBING. MOUNT FIXTURE TO MATCH PRIOR FIXTURE'S CENTERLINE & HEIGHT U.N.O.
3. PROVIDE & INSTALL DROP-IN LAVATORY BOWL, FAUCET AND ACCESSORIES AS SCHED; SEE PLUMBING. MOUNT FIXTURE TO MATCH PRIOR FIXTURE'S CENTERLINE U.N.O.
4. INSTALL MDF DECK MATERIAL AND PLAM FINISH AS SCHED - SEE DETAIL 2/A107
5. PROVIDE & INSTALL TOILET PARTITIONS, TOILET PAPER DISPENSER IS GOVERNMENT PROVIDED AND CONTRACTOR INSTALLED; REFER TO TOILET ACCESSORY SCHEDULE.
6. PROVIDE & INSTALL URINAL PARTITION; REFER TO TOILET ACCESSORY SCHEDULE.
7. NEW ACT CEILING AND GRID; REINSTALL FIXTURES IN SAME LOCATIONS.
8. PROVIDE & INSTALL ELEVATOR PUMPS, MOTORS, & ACCESSORIES IN THEIR ENTIRETY.

TOILET ACCESSORY SCHEDULE

SYMBOL	ACCESSORY	MOUNTING HEIGHT	REMARKS
A	36" GRAB BAR (REAR OF WC)	33" (EQUAL TO ADJACENT B TYPE)	B, C
B	42" GRAB BAR (SIDE OF WC)	33" (EQUAL TO ADJACENT A TYPE)	B, C
C	18" VERT GRAB BAR (SIDE OF WC)	BOTTOM @ 39" - 41" AND FROM BACK WALL 39" - 41"	B, C
D	TOILET PAPER DISPENSER	28" AFF (19" CL AFF MIN) - ENSURE 1-1/2" CLEARANCE TO GRAB BAR	B
E	SANITARY NAPKIN DISPOSAL	34" AFF TO TOP (ADA 31" TO TOP) - ENSURE 1-1/2" CLEARANCE TO GRAB BAR	B
F	CLOTHES HOOK	48" AFF MAX ON DOOR / WALL	B
G	SOAP DISPENSER	--	D
H	RECESSED SOAP DISPENSER / PAPER TOWEL DISPENSER	S.S. RECESSED IN WALL, TRIFOLD	D
I	SURFACE MOUNTED PAPER TOWEL DISPENSER	FASTENED TO WALL, ROLL	D
J	MIRROR	--	D
K	RECESSED TRASH RECEPTACLE	S.S. RECESSED IN WALL	D
L	SANITARY NAPKIN DISPENSER	S.S. RECESSED IN WALL	D

TOILET ACCESSORY REMARKS

A. ADA TOILET PARTITION DOOR SHALL BE 32" MIN CLEAR OPENING.

B. VERIFY ALL MOUNTING HEIGHTS WITH CODES AND MANUFACTURER. IF ANY MOUNTING HEIGHT DISCREPANCIES OCCUR, CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IN WRITING PRIOR TO INSTALLATION.

C. THE VERTICAL DIMENSION OF HORIZONTAL GRAB BARS IS MEASURED TO THE TOP OF THE BAR. THE HORIZONTAL DIMENSION OF THE HORIZONTAL GRAB BAR IS MEASURED TO THE CENTERLINE OF BAR TURNBACK/ WALL CONNECTION. THE BOTTOM VERTICAL DIMENSIONS OF VERTICAL GRAB BARS IS MEASURED TO THE BOTTOM OF THE BAR TURNBACK. THE TOP VERTICAL DIMENSION OF THE VERTICAL GRAB BARS IS MEASURED TO THE CENTERLINE OF THE TOP BAR TURNBACK. THE HORIZONTAL DIMENSION OF THE VERTICAL GRAB BAR IS MEASURED TO THE CENTERLINE OF THE TURNBACK / WALL CONNECTION.

D. EXISTING TO REMAIN.

ENLARGED RESTROOM GENERAL NOTES

1. THIS LEGEND APPLIES TO ENLARGED RESTROOM PLANS.
2. TOILET PARTITIONS SHALL BE CONSTRUCTED OF SINGLE FULL-HEIGHT PANELS AS SHOWN DIMENSIONED; SPLICED TOGETHER PANEL SHEETS ARE **NOT** PERMITTED.
3. ENSURE 1-1/2" CLEARANCE BETWEEN GRAB BAR AND WALL SURFACE - TYPICAL. VERTICAL GRAB BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF THE GRAB BARS, MOUNT PER MANUFACTURER'S REQUIREMENTS FOR ADA COMPLIANCY.
4. EXISTING PAPER TOWEL DISPENSERS AND SOAP DISPENSERS TO REMAIN. CONTRACTOR TO REFILL PAPER TOWEL UNITS W/ GOVERNMENT SUPPLIED MATERIAL PRIOR TO HANDING OVER ROOMS.
5. WHERE DIMENSIONS ARE INDICATED ON PLAN AS "CLEAR", THE DIMENSIONS ARE TAKEN FROM FACE OF FINISHED WALL MATERIAL TO FACE OF FINISHED WALL MATERIAL
6. DIMENSIONS ARE TAKEN FROM FINISHED WALL MATERIAL TO. CENTER LINE OF FIXTURES TYPICAL. COORDINATE WITH FLOOR PLAN DIMENSIONS FROM FACE OF STUD.

FINISH KEY

KEY NAME: ACT - 1
MATERIAL: ACOUSTICAL CEILING TILE
MANUFACTURER: ARMSTRONG
SERIES/ MODEL: ULTIMA 1913
COLOR: WHITE
SIZE: 24" x 24"
ACCESSORY: 15/16" WHITE PRELUDE GRID
* OR EQUAL

KEY NAME: RESTROOMS
MATERIAL: TOILET PARTITIONS
MANUFACTURER:SCRANTON PRODUCTS
SERIES/ MODEL: HINEY HIDERS
COLOR: TAN
FINISH: ORANGE PEEL
* OR EQUAL

KEY NAME: PLAM
MATERIAL: PLASTIC LAMINATE
MANUFACTURER: WILSONART
SERIES/ MODEL: STANDARD LAM.
COLOR: NATURAL COTTON
FINISH: FINE VELVET FINISH
* OR EQUAL

KEY NAME: CPT-1
MATERIAL: CARPET TILE
MANUFACTURER: SHAW
SERIES/ MODEL: 59576 DISPERSE ECOWORX
COLOR: TBC
SIZE: 24x24
* OR EQUAL

GENERAL NOTES - RCP

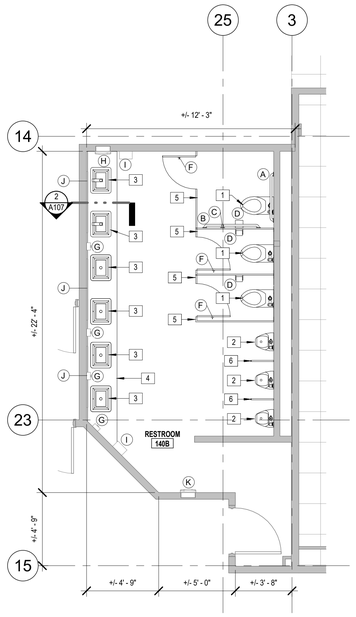
1. CONTRACTOR TO INSTALL NEW GRID AND CEILING TILES. LAYOUT TO MATCH EXISTING.
2. EXISTING MECHANICAL, ELECTRICAL, AND FIRE ALARM FIXTURES ARE TO REMAIN. CONTRACTOR TO TEMPORARILY SUPPORT FIXTURES DURING THE WORK.
3. FIXTURES SMALLER THAN TILE SIZE ARE TO BE CENTERED IN GRID; UNLESS HARD PIPING / CONDUIT DOES NOT ALLOW.

LEGEND - RCP

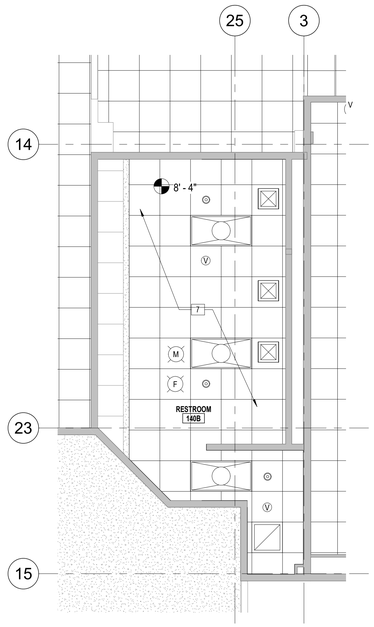
CEILING TYPES
- 2X2 ACT 1
- GYP BOARD
- 8'-4" — XX'-X" CLEAR HEIGHT ABOVE TOP OF SLAB (*CONTRACTOR TO VERIFY*)

EQUIPMENT - (SIZE VARIES)
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST GRILLE

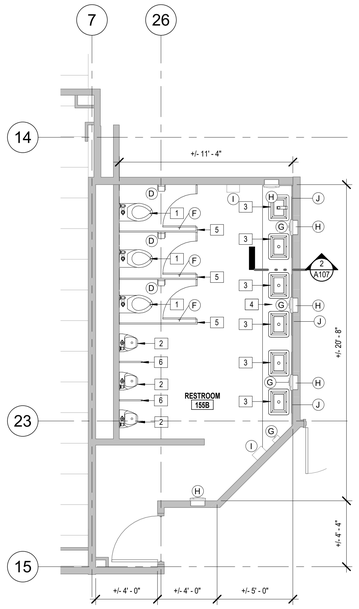
FIXTURES - SEE ELECTRICAL
- RECESSED CAN LIGHT
- 2X4 RECESSED LIGHT
- 2X2 RECESSED LIGHT
- V — VACANCY/OCCUPANCY SENSOR
- M — MASS NOTIFICATION SYSTEM CEILING MOUNTED VISUAL ALARM
- F — FIRE ALARM SYSTEM CEILING MOUNTED AUDIO VISUAL ALARM
- SPRINKLER HEAD



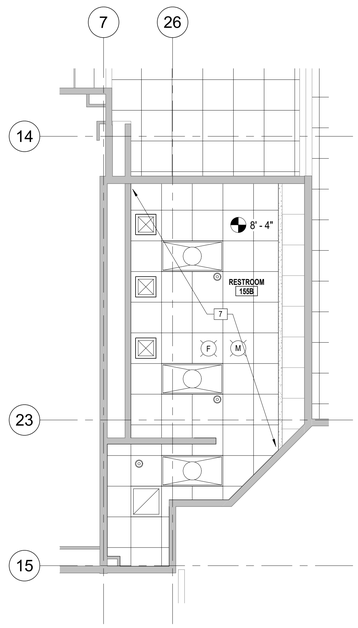
3 A107 A107 1ST FLOOR NW RESTROOM 140B - NEW WORK
1/4" = 1'-0"



4 A107 A107 1ST FLOOR NW RESTROOM 140B RCP
1/4" = 1'-0"



5 A107 A107 1ST FLOOR NE RESTROOM 155B - NEW WORK
1/4" = 1'-0"



6 A107 A107 1ST FLOOR NE RESTROOM 155B RCP
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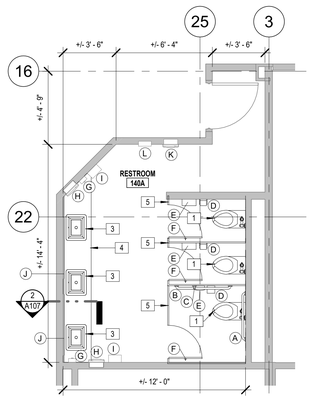
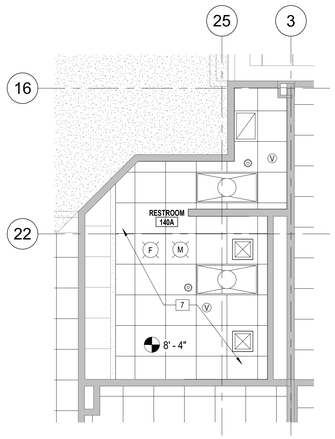


7 A107 A107 1ST FLOOR SW RESTROOM 140A - NEW WORK
1/4" = 1'-0"



8 A107 A107 1ST FLOOR SW RESTROOM 140A RCP
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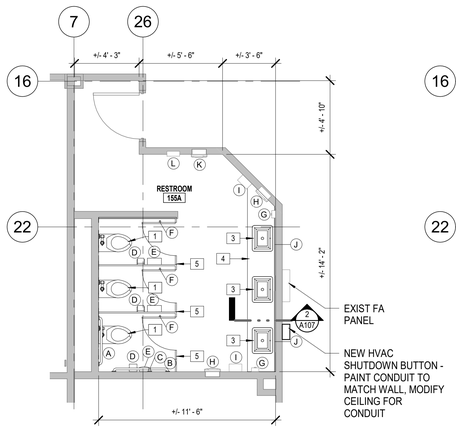

9 A107 A107 1ST FLOOR SE RESTROOM 155A - NEW WORK
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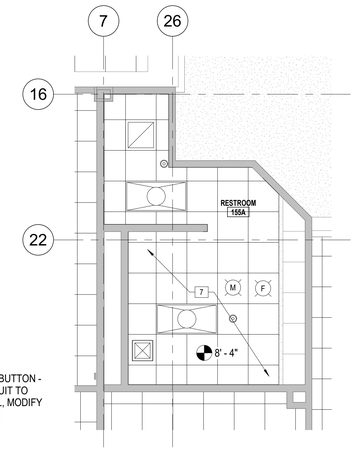

10 A107 A107 1ST FLOOR SE RESTROOM 155A RCP
1/4" = 1'-0"

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STAMP: REGISTERED ARCHITECT — STATE OF MISSISSIPPI

REVISION	DATE		DRAWN	APPROVED

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MAHG 171095 REPAIR STENNIS HALL

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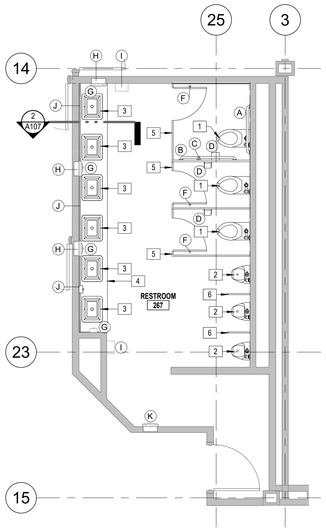
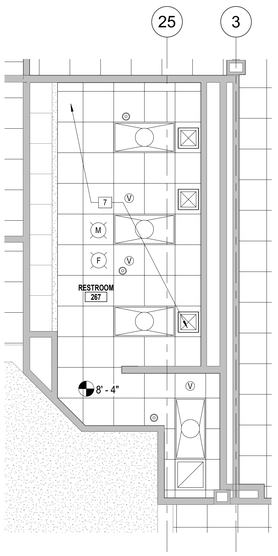
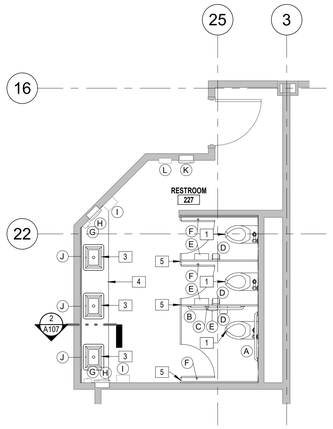
CHECKED: KLK	DATE: 2/20/24		SHEET 17 OF 74



1 A108 A102 2ND FLOOR NW RESTROOM 267 - NEW WORK
1/4" = 1'-0"



2 A108 A102 2ND FLOOR NW RESTROOM 267 RCP
1/4" = 1'-0"



3 A108 A102 2ND FLOOR SW RESTROOM 227 - NEW WORK
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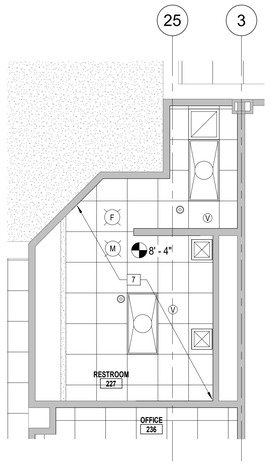
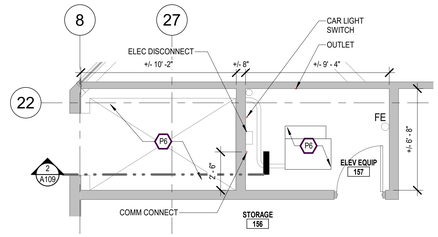
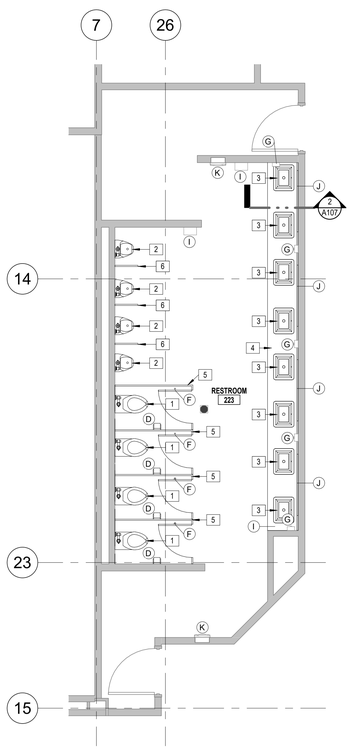


4 A108 A102 2ND FLOOR SW RESTROOM 227 RCP
1/4" = 1'-0"



5 A108 A102 1ST FLOOR - ENLARGED ELEV. PLAN
1/4" = 1'-0"



6 A108 A102 2ND FLOOR NE RESTROOM 223 - NEW WORK
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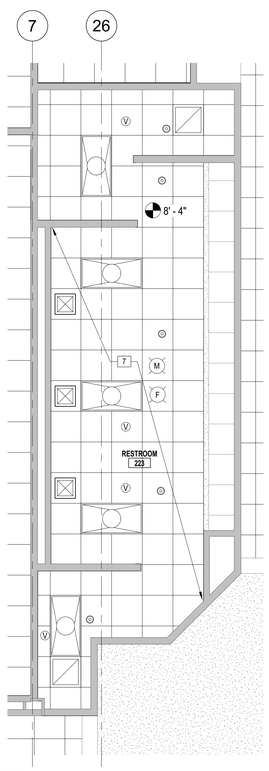

7 A108 A102 2ND FLOOR NE RESTROOM 223 RCP
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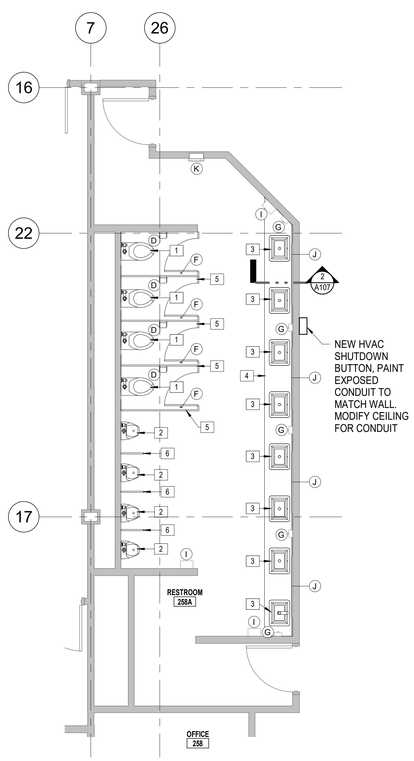
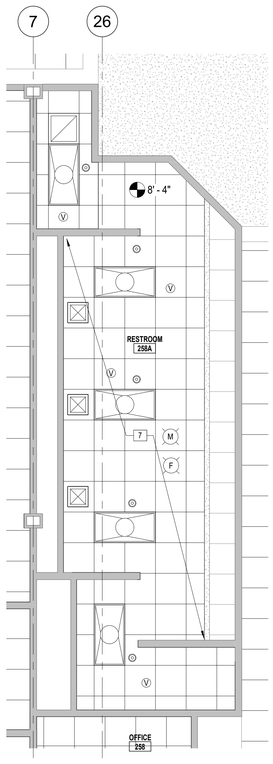
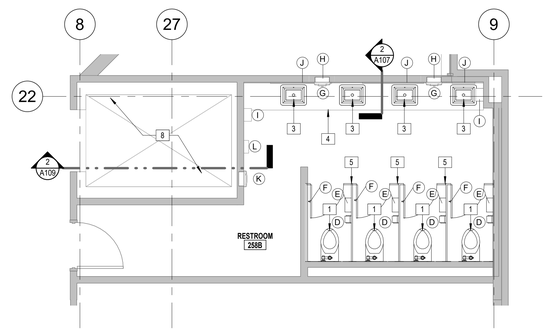


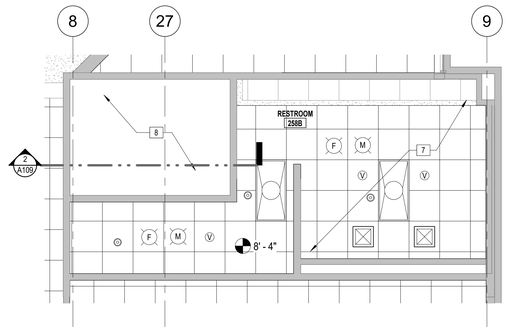
8 A108 A102 2ND FLOOR SE RESTROOM 258A - NEW WORK
1/4" = 1'-0"



9 A108 A102 2ND FLOOR SE RESTROOM 258A RCP
1/4" = 1'-0"



10 A108 A102 2ND FLOOR SE RESTROOM 258B - NEW WORK
1/4" = 1'-0"



11 A108 A102 2ND FLOOR SE RESTROOM 258B RCP
1/4" = 1'-0"

KEYNOTES - RENOVATION

1. PROVIDE & INSTALL NEW WALL-MOUNTED (MATCH EXIST REMOVED U.N.O) WATER CLOSET FIXTURE IN ITS ENTIRETY; SEE PLUMB.
2. PROVIDE & INSTALL URINAL; SEE PLUMBING. MOUNT FIXTURE TO MATCH PRIOR FIXTURE'S CENTERLINE & HEIGHT U.N.O.
3. PROVIDE & INSTALL DROP-IN LAVATORY BOWL, FAUCET AND ACCESSORIES AS SCHED; SEE PLUMBING. MOUNT FIXTURE TO MATCH PRIOR FIXTURE'S CENTERLINE U.N.O.
4. INSTALL MDF DECK MATERIAL AND PLAM FINISH AS SCHED - SEE DETAIL 2/A107
5. PROVIDE & INSTALL TOILET PARTITIONS, TOILET PAPER DISPENSER IS GOVERNMENT PROVIDED AND CONTRACTOR INSTALLED; REFER TO TOILET ACCESSORY SCHEDULE.
6. PROVIDE & INSTALL URINAL PARTITION; REFER TO TOILET ACCESSORY SCHEDULE.
7. NEW ACT CEILING AND GRID; REINSTALL FIXTURES IN SAME LOCATIONS.
8. PROVIDE & INSTALL ELEVATOR PUMPS, MOTORS, & ACCESSORIES IN THEIR ENTIRETY.

TOILET ACCESSORY SCHEDULE

SYMBOL	ACCESSORY	MOUNTING HEIGHT	REMARKS
A	36" GRAB BAR (REAR OF WC)	33" (EQUAL TO ADJACENT B TYPE)	B, C
B	42" GRAB BAR (SIDE OF WC)	33" (EQUAL TO ADJACENT A TYPE)	B, C
C	18" VERT GRAB BAR (SIDE OF WC)	BOTTOM @ 38" - 41" AND FROM BACK WALL 39" - 41"	B, C
D	TOILET PAPER DISPENSER	28" AFF (19" CL AFF MIN) - ENSURE 1-1/2" CLEARANCE TO GRAB BAR	B
E	SANITARY NAPKIN DISPOSAL	34" AFF TO TOP (ADA 31" TO TOP) - ENSURE 1-1/2" CLEARANCE TO GRAB BAR	B
F	CLOTHES HOOK	48" AFF MAX ON DOOR / WALL	B
G	SOAP DISPENSER	--	D
H	RECESSED SOAP DISPENSER / PAPER TOWEL DISPENSER	S.S. RECESSED IN WALL, TRIFOLD	D
I	SURFACE MOUNTED PAPER TOWEL DISPENSER	FASTENED TO WALL, ROLL	D
J	MIRROR	--	D
K	RECESSED TRASH RECEPTACLE	S.S. RECESSED IN WALL	D
L	SANITARY NAPKIN DISPENSER	S.S. RECESSED IN WALL	D

TOILET ACCESSORY REMARKS

A. ADA TOILET PARTITION DOOR SHALL BE 32" MIN CLEAR OPENING.

B. VERIFY ALL MOUNTING HEIGHTS WITH CODES AND MANUFACTURER. IF ANY MOUNTING HEIGHT DISCREPANCIES OCCUR, CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IN WRITING PRIOR TO INSTALLATION.

C. THE VERTICAL DIMENSION OF HORIZONTAL GRAB BARS IS MEASURED TO THE TOP OF THE BAR. THE HORIZONTAL DIMENSION OF THE HORIZONTAL GRAB BAR IS MEASURED TO THE CENTERLINE OF BAR TURNBACK/ WALL CONNECTION. THE BOTTOM VERTICAL DIMENSIONS OF VERTICAL GRAB BARS IS MEASURED TO THE BOTTOM OF THE BAR TURNBACK. THE TOP VERTICAL DIMENSION OF THE VERTICAL GRAB BARS IS MEASURED TO THE CENTERLINE OF THE TOP BAR TURNBACK. THE HORIZONTAL DIMENSION OF THE VERTICAL GRAB BAR IS MEASURED TO THE CENTERLINE OF THE TURNBACK / WALL CONNECTION.

D. EXISTING TO REMAIN.

ENLARGED RESTROOM GENERAL NOTES

1. THIS LEGEND APPLIES TO ENLARGED RESTROOM PLANS.
2. TOILET PARTITIONS SHALL BE CONSTRUCTED OF SINGLE FULL-HEIGHT PANELS AS SHOWN DIMENSIONED; SPLICED TOGETHER PANEL SHEETS ARE **NOT** PERMITTED.
3. ENSURE 1-1/2" CLEARANCE BETWEEN GRAB BAR AND WALL SURFACE - TYPICAL. VERTICAL GRAB BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF THE GRAB BARS, MOUNT PER MANUFACTURER'S REQUIREMENTS FOR ADA COMPLIANCY.
4. EXISTING PAPER TOWEL DISPENSERS AND SOAP DISPENSERS TO REMAIN. CONTRACTOR TO REFILL PAPER TOWEL UNITS W/ GOVERNMENT SUPPLIED MATERIAL PRIOR TO HANDING OVER ROOMS.
5. WHERE DIMENSIONS ARE INDICATED ON PLAN AS "CLEAR", THE DIMENSIONS ARE TAKEN FROM FACE OF FINISHED WALL MATERIAL TO FACE OF FINISHED WALL MATERIAL
6. DIMENSIONS ARE TAKEN FROM FINISHED WALL MATERIAL TO. CENTER LINE OF FIXTURES TYPICAL. COORDINATE WITH FLOOR PLAN DIMENSIONS FROM FACE OF STUD.

FINISH KEY

KEY NAME: ACT - 1
MATERIAL: ACOUSTICAL CEILING TILE
MANUFACTURER: ARMSTRONG
SERIES/ MODEL: ULTIMA 1913
COLOR: WHITE
SIZE: 2-4" x 24"
ACCESSORY: 15/16" WHITE PRELUDE GRID
* OR EQUAL

KEY NAME: RESTROOMS
MATERIAL: TOILET PARTITIONS
MANUFACTURER:SCRANTON PRODUCTS
SERIES/ MODEL: HINEY HIDERS
COLOR: TAN
FINISH: ORANGE PEEL
* OR EQUAL

KEY NAME: PLAM
MATERIAL: PLASTIC LAMINATE
MANUFACTURER: WILSONART
SERIES/ MODEL: STANDARD LAM.
COLOR: NATURAL COTTON
FINISH: FINE VELVET FINISH
* OR EQUAL

KEY NAME: CPT-1
MATERIAL: CARPET TILE
MANUFACTURER: SHAW
SERIES/ MODEL: 59576 DISPERSE ECOWORX
COLOR: TBC
SIZE: 24x24
* OR EQUAL

GENERAL NOTES - RCP

1. CONTRACTOR TO INSTALL NEW GRID AND CEILING TILES. LAYOUT TO MATCH EXISTING.
2. EXISTING MECHANICAL, ELECTRICAL, AND FIRE ALARM FIXTURES ARE TO REMAIN. CONTRACTOR TO TEMPORARILY SUPPORT FIXTURES DURING THE WORK.
3. FIXTURES SMALLER THAN TILE SIZE ARE TO BE CENTERED IN GRID; UNLESS HARD PIPING / CONDUIT DOES NOT ALLOW.

LEGEND - RCP

CEILING TYPES
- 2X2 ACT 1
- GYP BOARD
- 8'-4" XX-X" CLEAR HEIGHT ABOVE TOP OF SLAB *(CONTRACTOR TO VERIFY)*

EQUIPMENT - (SIZE VARIES)
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST GRILLE

FIXTURES - SEE ELECTRICAL
- RECESSED CAN LIGHT
- 2X4 RECESSED LIGHT
- 2X2 RECESSED LIGHT
- V VACANCY/OCCUPANCY SENSOR
- M MASS NOTIFICATION SYSTEM CEILING MOUNTED VISUAL ALARM
- F FIRE ALARM SYSTEM CEILING MOUNTED AUDIO VISUAL ALARM
- SPRINKLER HEAD

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MECHANICAL, ELECTRICAL & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP
REGISTERED ARCHITECT 4202 STATE OF MISSISSIPPI
2-20-24

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE, BILOXI, MS/SSSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: HAS	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 2ND FLOOR ENLARGED RENOVATION PLANS - RESTROOMS & ELEV.	DRAWING NUMBER: A108
CHECKED: KLK	DATE: 2/20/24	SHEET 18 OF 74	

GENERAL FIRE ALARM NOTES

A. FIRE ALARM SYSTEM SHALL BE ADA COMPLIANT. PROVIDE DEVICES TO MATCH EXISTING SYSTEM AND WIRE PER FIRE ALARM VENDOR'S REQUIREMENTS. CONTRACTOR SHALL INCLUDE IN BID PRICE ALL FEES REQUIRED BY FIRE ALARM VENDOR FOR PROGRAMMING TO THE EXISTING SYSTEM AND NEW HARDWARE FOR THE ADDITIONS SHOWN AND ALL OTHER WORK REQUIRED BY VENDOR. CONTACT AND COORDINATE FEES WITH VENDOR PRIOR TO BID.

B. CONTRACTOR SHALL MEET WITH THE VENDOR ON SITE PRIOR TO THE START OF ANY CONSTRUCTION TO VERIFY AND DOCUMENT SYSTEM FUNCTION AND STATUS. CONTRACTOR TO MAKE ARRANGEMENTS WITH FIRE ALARM CONTRACTOR FOR PROPER DISCONNECTION OF SYSTEMS AFFECTED BY CONSTRUCTION. CONTRACTOR SHALL NOT DISCONNECT ANY SYSTEM WITHOUT FIRE ALARM CONTRACTOR PRESENT.

C. PROVIDE ALL NECESSARY HARDWARE AND SOFTWARE, 24 HOUR BATTERY BACKUP, ETC. AS REQUIRED FOR THE INTENDED INSTALLATION.

D. ALL FIRE ALARM SYSTEM MODIFICATIONS AND INSTALLATIONS SHALL BE PROVIDED OR SUPERVISED BY FIRE ALARM VENDOR. THE ELECTRICAL CONTRACTORS BID PRICE SHALL INCLUDE ALL FEES, DEVICES, WIRE, CONDUIT, LABOR, MATERIAL, AND EQUIPMENT TO PROVIDE THE INTENDED INSTALLATION AS INDICATED ON THE DRAWINGS AND THESE NOTES.

E. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND FIRE ALARM INSTALLER TO CONFIRM ALL WIRING CONDITIONS IN REGARDS TO THE FIRE ALARM SYSTEM AS RELATED TO THIS PROJECT PRIOR TO BIDDING THE PROJECT.

F. THE FIRE ALARM SUPPLIER SHALL PROVIDE A COMPLETE SET OF INSTALLATION DRAWINGS TO THE CONTRACTOR. THESE DRAWINGS SHALL BE INCLUSIVE OF FLOOR PLANS, RISER DIAGRAMS, DEVICE CONNECTIONS, ETC.

G. REFER TO THE FLOOR PLANS FOR THE EXACT NUMBER AND TYPE OF DEVICES REQUIRED. ANY CONDUIT AND WIRE ROUTING SHOWN ON THE DRAWINGS SHALL BE MODIFIED, CHANGED, ADDED OR DELETED AS NECESSARY.

H. THE CONTRACTOR SHALL PROVIDE ALL FIRE ALARM SYSTEM WIRING AS RECOMMENDED AND DIRECTED BY THE SYSTEM SUPPLIER OR MANUFACTURER AND IN ACCORDANCE WITH ALL CODES AND STANDARDS. ALL FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT OR SHALL BE PLENUM-RATED.

I. FIRE ALARM INSTALLER SHALL PROVIDE COMPLETE RECORD DRAWINGS OF THE NEW AND EXISTING FIRE ALARM SYSTEM INSTALLATION WITHIN THE AREA SHOWN ON THE PLANS AND HEADED EQUIPMENT. THE RECORD DRAWINGS SHALL REFLECT ALL DEVICES LOCATIONS AND WIRE/CONDUIT RUNS AS WELL AS FIRE ALARM PANEL AND ANNUNCIATOR MODIFICATIONS.

J. ALL FIRE ALARM SYSTEM SMOKE DETECTORS, HEATERS, OTHER DEVICES, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE UL LISTING REQUIREMENTS OF THE DEVICES.

K. GIVEN THE INITIATION OF ANY PULL STATION, SMOKE OR HEAT DETECTOR A SIGNAL SHALL BE SENT TO THE FACP AND THE HORN AND STROBE DEVICES SHALL BE INITIATED TO SIGNAL A BUILDING EVACUATION IN ACCORDANCE WITH LOCAL REQUIREMENTS.

L. THE FIRE ALARM INSTALLER SHALL TEST ALL STROBE, HORN, AND WIRING THAT WILL BE AFFECTED BY THIS PROJECT PRIOR TO BEGINNING ANY WORK. ANY PROBLEMS SHALL BE MADE KNOWN TO THE OWNER. AFTER THIS PROJECT IS COMPLETE THE FIRE ALARM INSTALLER SHALL TEST ALL STROBE, SPEAKER CIRCUITS, WIRING, AND ALL PROGRAMMING AFFECTED BY THIS PROJECT.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTERLINE UNO
L	FLASHING LIGHT	80"
L	CHIME/FLASHING LIGHT COMBINATION	80"
F	MANUAL PULL STATION	46"
SD	SMOKE DETECTOR	CEILING
DSD	DUCT-SMOKE DETECTOR (DAMPER) OR (EXHAUST)	———
HD	AUTOMATIC HEAT DETECTOR (RATE OF RISE TYPE)	———
SDE	SYSTEM CONNECTED SMOKE DETECTOR FOR FIREMAN'S RECALL	CEILING
FSD	FIRE SMOKE DAMPER	
DH	SMOKE DOOR HOLDER	6'-0"
TS	TAMPER SWITCH	———
FS	FLOW SWITCH	CEILING
L S	FLASHING LIGHT/HORN SIGNAL STATION	80"
L S	FLASHING LIGHT SPEAKER SIGNAL STATION	80"
FACP	CONTROL PANEL	———
FAA	REMOTE ANNUNCIATOR	———
DC	DOOR CONTACTOR	
FR	FIRE ALARM RELAY	

GENERAL FIRE ALARM/SYSTEM NOTES

A. DEVICES INDICATED ON THIS DRAWINGS ARE DIAGRAMMATICAL ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR LOCATIONS OF OUTLETS, FIRE ALARM DEVICES, ETC. PRIOR TO ROUGH-IN.

B. REFERENCE PLUMBING DRAWINGS FOR EXACT LOCATIONS OF PRE-ACTION SPRINKLER ZONES AND QUANTITIES OF TAMPER AND FLOW SWITCHES.

C. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FSD AND DSD LOCATIONS WITH MECHANICAL PLANS. LOCATIONS SHOWN ON THIS PLAN ARE FOR DIAGRAMMATICAL PURPOSES AND MAY NOT REPRESENT ALL LOCATIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CIRCUITRY TO ALL FSD'S. FSD'S SHALL BE CONNECTED TO THE LIFE SAFETY BRANCH PANELS. NO MORE THAN FOURTEEN FSD'S PER 20A/1P CIRCUIT.

D. REFERENCE MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF DUCT SMOKE DETECTORS, FIRE/SMOKE DAMPERS AND SMOKE CONTROL DAMPERS.

E. VERIFY ANY EQUIPMENT PROCURED FOR THIS PROJECT IS COMPATIBLE WITH EXISTING EQUIPMENT PRIOR TO INSTALLATION.

GENERAL FIRE ALARM DEMOLITION NOTES

DEMOLITION NOTES:

A. CONTRACTOR TO REFER TO FIRE ALARM LEGEND FOR DESCRIPTION OF EXISTING FIRE ALARM ITEMS SHOWN ON DEMOLITION DRAWINGS.

B. CONTRACTOR TO REMOVE ALL EXISTING FIRE ALARM EQUIPMENT FROM EXISTING WALLS BEING REMOVED UNDER THIS CONTRACT. ALL EXISTING CONDUIT AND WIRING FEEDING FIRE ALARM EQUIPMENT TO BE REMOVED OR TERMINATED AS DESCRIBED BELOW:

1. CONDUIT FEEDING EQUIPMENT FROM SLAB TO BE CUT OFF BELOW SLAB AND ABANDONED WITH HOLE IN SLAB BEING PATCHED BACK TO MATCH EXISTING.

2. CONDUIT FEEDING EQUIPMENT FROM ABOVE DROPPED CEILING TO BE DISCONNECTED AND REMOVED BACK TO SOURCE. DAMAGE TO CEILINGS TO BE REPLACED OR REPAIRED TO MATCH EXISTING.

3. CONTRACTOR TO MAINTAIN THE INTEGRITY OF ALL EXISTING FEED-THROUGH CIRCUITRY WHERE EXISTING FIRE ALARM EQUIPMENT HAS BEEN REMOVED FROM MIDPOINT OF CIRCUIT. NEW WIRE TO BE PULLED THE ENTIRETY OF CIRCUIT.

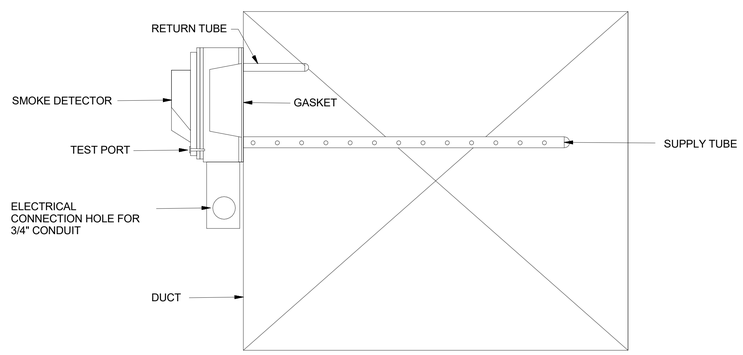
C. ALL EXISTING WALLS, CEILINGS, FLOOR SLABS, ETC., BEING CUT OR DAMAGED UNDER THIS CONTRACT TO BE PATCHED BACK TO MATCH EXISTING FINISH AND FIRE PROTECTION RATING.

D. CONTRACTOR TO MAINTAIN THE INTEGRITY OF ALL EXISTING CIRCUITRY TO REMAIN.

E. ALL FIRE ALARM EQUIPMENT SHOWN IS FROM ORIGINAL CONTRACT DOCUMENTS AND IS TO BE USED AS GUIDE FOR POSSIBLE EQUIPMENT LOCATIONS. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND QUANTITIES.

NOTES:

1. FASTEN SMOKE DETECTOR HOUSING TO DUCT USING SHEET METAL SCREWS



TYPICAL DUCT SMOKE DETECTOR DETAIL

No Scale

1

GENERAL FIRE PROTECTION NOTES

1. AS PART OF THIS PROJECT, FURNISH AND INSTALL A COMPLETE AUTOMATIC SPRINKLER SYSTEM FOR ALL NEW CONSTRUCTION AND RENOVATED AREAS, INCLUDING CANOPIES, OVERHANGS, AND ATTICS. THE END PRODUCT SHALL PRODUCE A FULLY SPRINKLERED FACILITY. COORDINATE WITH THE ARCHITECTURAL PLANS FOR THE LIMITS OF CONSTRUCTION, CEILING HEIGHTS AND CEILING TYPES. REFER TO THE FLOOR PLANS FOR CONNECTION POINTS AND ZONING OF THE SYSTEM(S).

2. THE SPRINKLER SYSTEM FOR NEWLY CONSTRUCTED AREAS SHALL BE SUPPLIED FROM AUTOMATIC SPRINKLER RISER ASSEMBLIES OR COMBINATION STANDPIPES AND SHALL BE FURNISHED COMPLETE WITH STANDARD TRIM AND THE NECESSARY COMPONENTS TO INTERLOCK WITH THE BUILDING FIRE ALARM SYSTEM.

3. UNLESS OTHERWISE NOTED, SPRINKLER SYSTEMS FOR RENOVATED AREAS ARE TO REMAIN AS PART OF THE EXISTING ZONE. IN AREAS OF RENOVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RE-ROUTING AND/OR RELOCATING EXISTING MAINS AND BRANCH LINES TO ALLOW FOR THE INSTALLATION OF NEW DUCTWORK AND/OR MAJOR PIPE AND CONDUIT RUNS AND MAINTAIN NEW CEILING HEIGHTS AS SET BY THE ARCHITECTURAL PLANS. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING EXISTING DRAIN LINES AND INSPECTOR'S TEST STATIONS AS REQUIRED BY ARCHITECTURAL MODIFICATIONS TO THE FACILITY. THE SPRINKLER CONTRACTOR SHALL INSPECT, TEST AND MODIFY EXISTING SPRINKLER SYSTEM AS NEEDED TO COMPLY WITH NFPA AND LOCAL CODES.

4. THE FIRE PROTECTION SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF NFPA, ALL LOCAL, COUNTY, AND STATE REGULATIONS, AS WELL AS THE FACILITY'S INSURANCE UNDERWRITER. COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR WIRING OF THE VARIOUS TAMPER AND FLOW SWITCHES AS WELL AS AIR COMPRESSORS AND PRE-ACTION SYSTEM CONTROLS.

5. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED BY THE SPRINKLER CONTRACTOR. PROVIDE CALCULATIONS FOR THE HYDRAULICALLY MOST DEMANDING AREA AND FOR EACH OCCUPANCY CLASSIFICATION. THE CALCULATIONS SHALL UTILIZE CRITERIA FROM THE SPECIFICATIONS.

6. THE SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE SPRINKLER SHOP DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY THE SPRINKLER CONTRACTOR WITH A MINIMUM NICET III LEVEL REGISTRATION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. THEY MUST BE SIGNED BY A RESPONSIBLE MANAGING EMPLOYEE AND SUBMITTED BY A REGISTERED FIRE PROTECTION CONTRACTOR.

7. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE AND PROVIDED WITH TEMPERATURE RATINGS AS DICTATED BY NFPA FOR THE SPACES SERVED AND PER THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. ALL SPRINKLER HEADS SHALL BE INSTALLED ACCORDING TO THEIR LISTING. THE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF PIPING AND HEADS WITH LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PLUMBING LINES, ETC., AND MAKE MINOR ADJUSTMENTS IN THE SPRINKLER LAYOUT WHERE REQUIRED OR DEEMED NECESSARY BY THE ARCHITECT. ALL SPRINKLER HEADS SHALL BE LOCATED SYMMETRICALLY IN ALL AREAS AND CENTERED IN CEILING TILES. PROVIDE SPRINKLER HEADS BY TYPE AS FOLLOWS:

   A. IN AREAS WITH FINISHED CEILINGS, PROVIDE CHROME-PLATED, SEMIRECESSED, QUICK RESPONSE TYPE SPRINKLER HEADS. ASSOCIATED SPRINKLER PIPING SHALL BE ROUTED ABOVE THE CEILING AND IN FURRED SPACES, CHASES, ETC., TO COMPLETELY CONCEAL ALL PIPING.

   B. IN AREAS WITHOUT FINISHED CEILINGS, PROVIDE BRASS, UPRIGHT QUICK RESPONSE TYPE SPRINKLER HEADS. ASSOCIATED SPRINKLER PIPING SHALL BE ROUTED EXPOSED TO VIEW. WHERE EXPOSED IN OCCUPIED SPACES, PAINT PIPE TO MATCH ADJOINING AREAS (COLOR SELECTED BY ARCHITECT). PROVIDE AND INSTALL HARD-WIRE CAGE SPRINKLER GUARDS ON ALL SPRINKLER HEADS SUBJECT TO MECHANICAL DAMAGE.

   C. ALL SPRINKLER HEADS IN AREAS WITH FINISHED CEILING WHICH ARE SUBJECT TO FREEZING CONDITIONS (CANOPIES AND OVERHANGS) SHALL BE CHROME-PLATED, FREEZE-PROOF, CORROSION RESISTANT PENDANT TYPE WITH TEMPERATURE RATING AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN IN CONDITIONED SPACE AS OUTLINED ABOVE.

8. PROVIDE CONTROL VALVE WITH TAMPER SWITCH AND FLOW SWITCH WITH NO TIME DELAY FOR THE TOP AND BOTTOM OF ELEVATOR SHAFTS, AND IN SPACES HOUSING ELEVATOR MACHINERY OR CONTROLS.

9. INDICATING VALVE (POST OR WALL) SHALL BE FURNISHED COMPLETE WITH THE NECESSARY COMPONENTS TO SOUND A LOCAL ALARM IN THE EVENT THE VALVE IS CLOSED. ALARM AND WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.

10. ALL SYSTEM GAUGES AND VALVES SHALL BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE.

11. ALL SPRINKLER BRANCH OUTLETS SHALL BE MINIMUM 1".

12. LOCATE ALL AUTOMATIC SPRINKLER LINES ABOVE CEILING UNLESS OTHERWISE NOTED.

GENERAL FIRE PROTECTION DEMOLITION NOTES

1. ALL FIRE PROTECTION EQUIPMENT, PIPING, HEADS, VALVES, HANGERS, SUPPORTS, ETC. SHALL BE REMOVED UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL-INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO FULFILL THE INTENT OF THE DESIGN INDICATED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL COORDINATE FIRE PROTECTION DEMOLITION DRAWINGS AND NOTES WITH ARCHITECTURAL DRAWINGS AND NOTES.

3. EXISTING CONDITIONS AND LOCATIONS OF EQUIPMENT, FIXTURES, PIPING, ETC. SHALL BE FIELD VERIFIED PRIOR TO COMMENCING WORK. CONDITIONS SHOWN ARE BASED ON EXISTING DRAWINGS AND MAY NOT BE EXACT. REFERENCE EXISTING AS-BUILT DRAWINGS FOR ADDITIONAL INFORMATION. REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS TO ARCHITECT, ENGINEER, AND OWNER PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK.

4. CONTRACTOR SHALL REVIEW ALL ITEMS TO BE DEMOLISHED WITH OWNER TO IDENTIFY ANY ITEMS TO BE SALVAGED PRIOR TO START OF DEMOLITION.

5. REPAIR/ REPLACE EXISTING EQUIPMENT, MATERIALS, AND SURFACES NOT SCHEDULED OR NOTED TO BE DEMOLISHED THAT ARE DAMAGED DURING CONSTRUCTION. MAKE ANY AND ALL SUCH REPAIRS AND REPLACEMENTS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITIONS AT THE TIME OF DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.

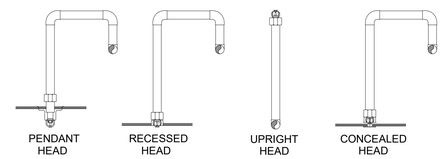
6. CONTRACTOR SHALL COORDINATE INTERRUPTIONS OF EXISTING SERVICES WITH THE OWNER PRIOR TO COMMENCING WORK.

FIRE PROTECTION LEGEND

TAG	DESCRIPTION	TAG	DESCRIPTION
A/S	AUTOMATIC SPRINKLER	FDV	FIRE DEPARTMENT VALVE
FPW	FIRE PROTECTION WET PIPE	FPD	FIRE PROTECTION DRY PIPE
OS&Y	OUTSIDE STEM & YOKE	PRV	PRESSURE REDUCING VALVE
	CONNECT TO EXISTING	FDC	FIRE DEPT. CONNECTION
	DEMOLITION POINT		

PIPING LEGEND

	DIRECTION OF WATER FLOW
	TEE FITTING
	PIPE TURNING DOWN
	PIPE TURNING UP
	PIPE SHUT-OFF VALVE



NOTES:

1. WHERE PENDANT STYLE HEADS ARE INDICATED AND AN ACOUSTICAL TILE CEILING IS TO BE INSTALLED, INSTALL PENDANT HEADS CENTERED IN BOTH DIRECTIONS.

2. ARMOVERS WHICH EXCEED 2' - 0" SHALL INCLUDE HANGERS TO STRUCTURE. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ARMOVERS WHICH EXCEED 1' - 0" SHALL INCLUDE HANGERS TO STRUCTURE.

SPRINKLER HEAD DETAILS

No Scale

1

Fire Protection Sheet List

Sheet Number	Sheet Name	Drawn By	Checked By
FX001	LEGENDS - FIRE PROTECTION	ADP/CAB	DHW/CWF
FD100	OVERALL DEMOLITION PLANS	ADP/CAB	DHW/CWF
FD105	ENLARGED DEMOLITION PLANS - MECHANICAL ROOMS - 1ST FLOOR	ADP/CAB	DHW/CWF
FD106	ENLARGED DEMOLITION PLANS - MECHANICAL ROOMS - 2ND FLOOR	ADP/CAB	DHW/CWF
FX100	OVERALL FLOOR PLANS	ADP/CAB	DHW/CWF
FX105	ENLARGED RENOVATION PLANS - MECHANICAL ROOMS - 1ST FLOOR	ADP/CAB	DHW/CWF
FX106	ENLARGED RENOVATION PLANS - MECHANICAL ROOMS - 2ND FLOOR	ADP/CAB	DHW/CWF

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ENGINEER

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MECHANICAL, ELECTRICAL & TELECOMM ENGINEER:
DELL CONSULTING, LLC

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JENNY HAROLD WARREN
LICENSED PROFESSIONAL ENGINEER
Expiration Date 12-20-2024
19999
STATE OF MISSISSIPPI

REVISION	DATE		DRAWN	APPROVED

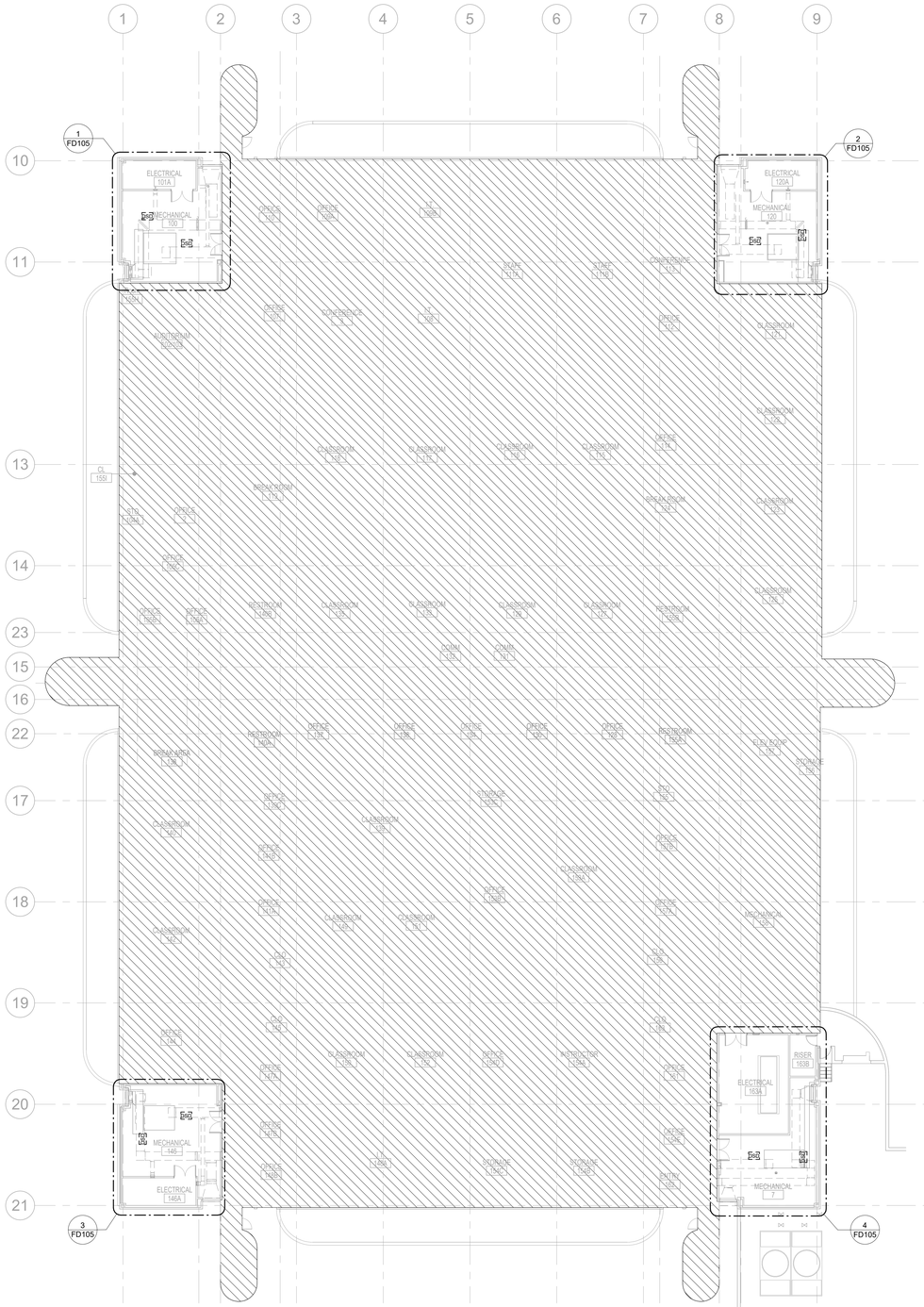
UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

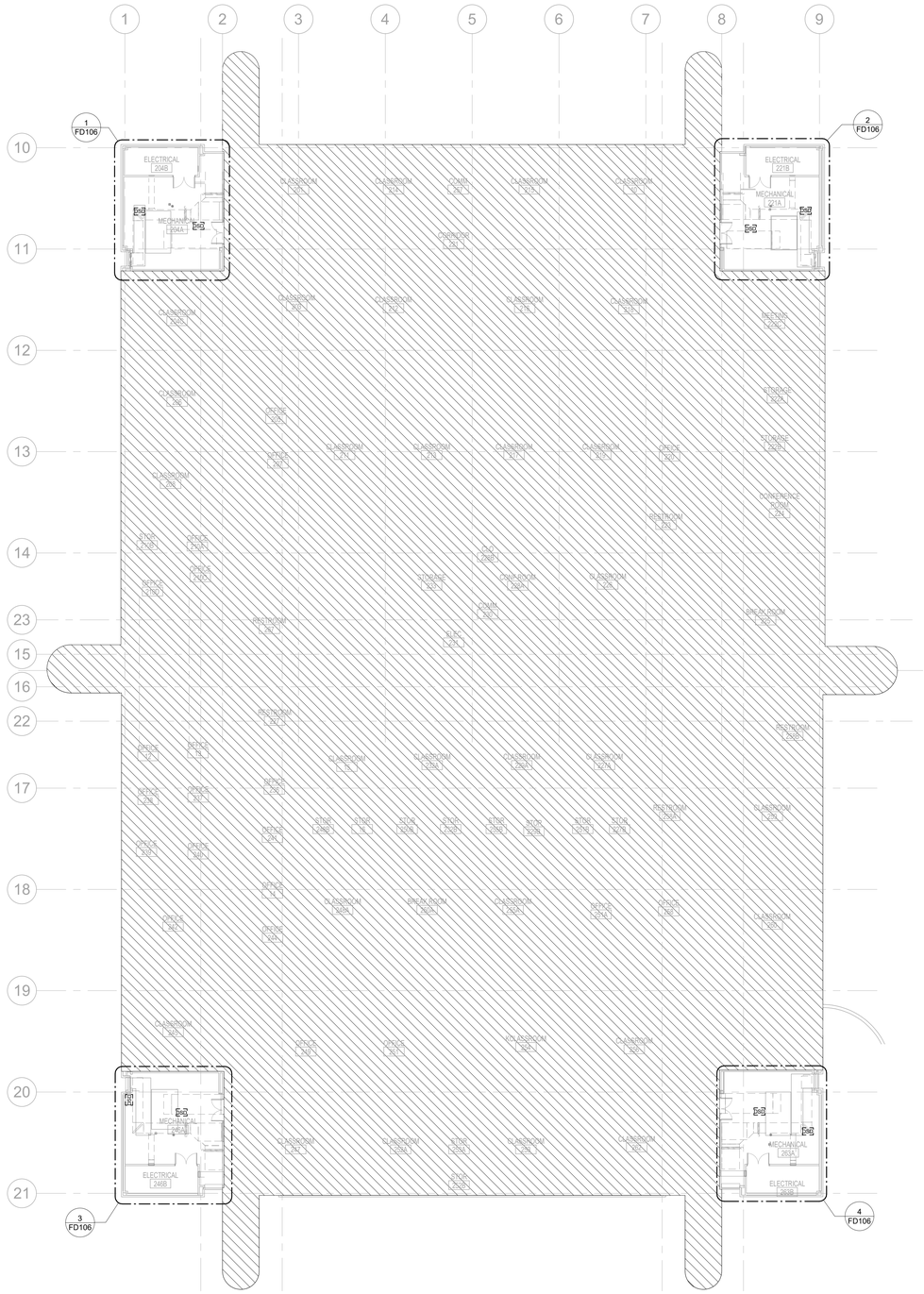
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: ADP/CAB	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: LEGENDS - FIRE PROTECTION	DRAWING NUMBER: FD001
CHECKED: DHW/CWF	DATE: 2/20/24		SHEET 19 OF 74

GENERAL NOTES:

1. DEMO EXISTING DUCT SMOKE DETECTORS AND ANY NECESSARY CONDUIT AND CABLING FOR REMOVAL OF HVAC EQUIPMENT.
2. REUSE EXISTING FIRE ALARM CONDUIT AND CABLING WHERE POSSIBLE.



1 FD106 1ST FLOOR OVERALL DEMO
1/16" = 1'-0"



2 FD106 2ND FLOOR OVERALL DEMO
1/16" = 1'-0"

NORTH

16' 0' 16' 32'
SCALE: 1/16"=1'-0"

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FIRE PROTECTION ENGINEERING:
I.C. THOMASSON & ASSOCIATES, INC.
MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

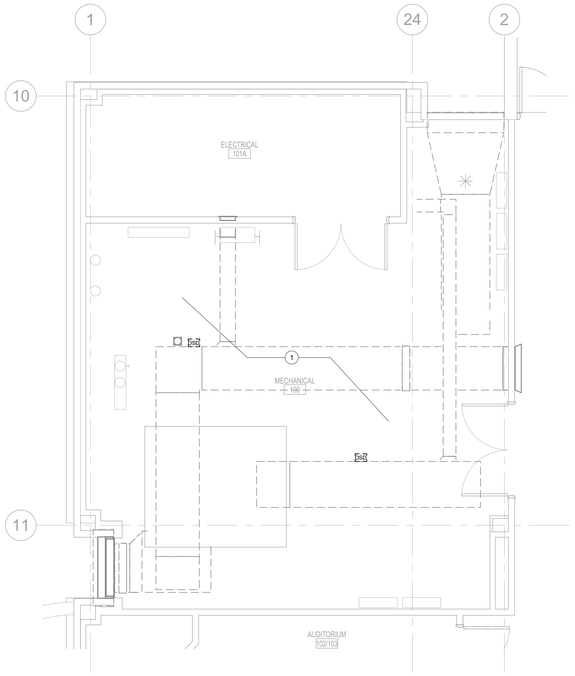
STAMP
DANNY HAROLD WARREN FIRE PROTECTION ENGINEER 19990 STATE OF MISSISSIPPI
2-20-2024

REVISION	DATE		DRAWN	APPROVED

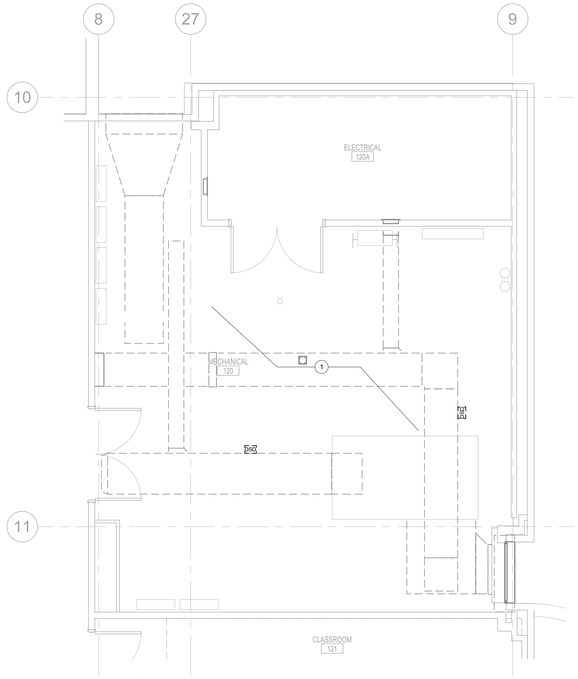
UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Group ofEngineering) G. REED
DRAWN: ADP/CAB
PROJECT NUMBER: MAHG 17-1095
SHEET NAME: OVERALL DEMOLITION PLANS
CHECKED: DHW/CWF
DATE: 2/20/24
FACILITY NUMBER: B1002
DRAWING NUMBER: FD100
SHEET 20 OF 74



1 FD105 FD106 1ST FLOOR NW MECH ROOM - DEMO PLAN
1/4" = 1'-0"



2 FD105 FD106 1ST FLOOR NE MECH ROOM - DEMO PLAN
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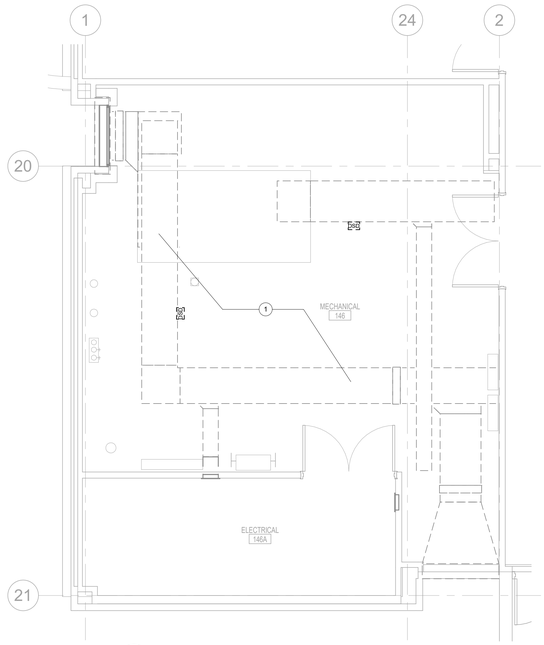
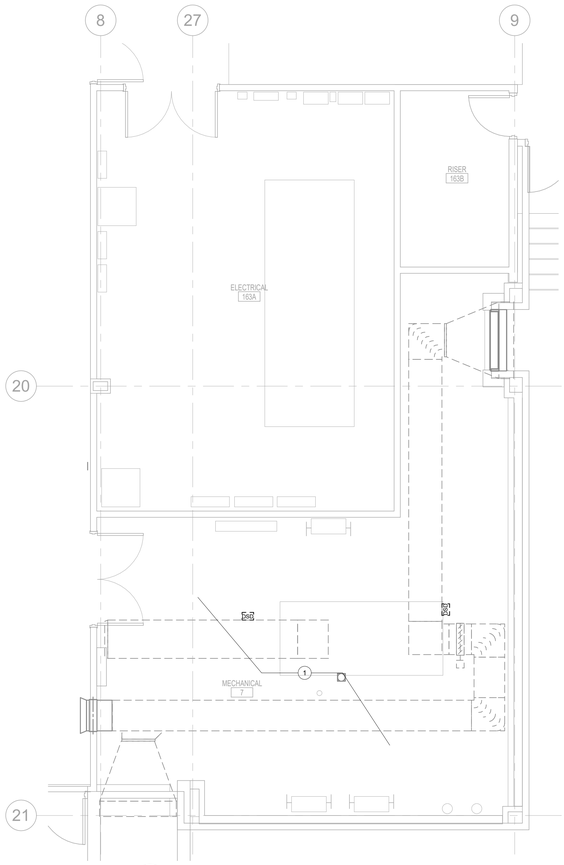


3 FD105 FD106 1ST FLOOR SW MECH ROOM - DEMO PLAN
1/4" = 1'-0"



4 FD105 FD106 1ST FLOOR SE MECH ROOM - DEMO PLAN
1/4" = 1'-0"

KEYED DEMO NOTES:

1. DEMO ALL EXISTING SPRINKLER HEADS WITHIN MECHANICAL ROOM. EXISTING SPRINKLER BRANCH PIPING SHALL BE DEMOLISHED AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL EQUIPMENT AND DUCTWORK.

GENERAL NOTES:

1. DEMO EXISTING DUCT SMOKE DETECTORS AND ANY NECESSARY CONDUIT AND CABLING FOR REMOVAL OF HVAC EQUIPMENT.
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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP

TOMMY HAROLD DELL REGISTERED PROFESSIONAL ENGINEER 19999 STATE OF MISSISSIPPI
12-20-24

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — MISSISSIPPI
OFFICE OF CIVIL ENGINEERS

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)

RECOMMENDED: (Chief of Engineering)
G. REED

FACILITY NUMBER: B1002

DRAWN: ADP/CAB
CHECKED: DHW/CWF
PROJECT NUMBER: MAHG 17-1095
DATE: 2/20/24
SHEET NAME: ENLARGED DEMOLITION PLANS - MECHANICAL ROOMS - 1ST FLOOR

DRAWING NUMBER: FD105
SHEET 21 OF 74

KEYED DEMO NOTES:

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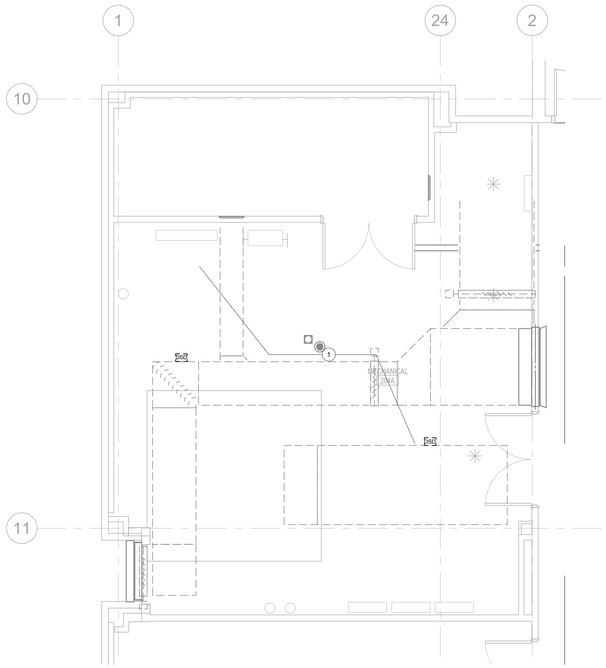
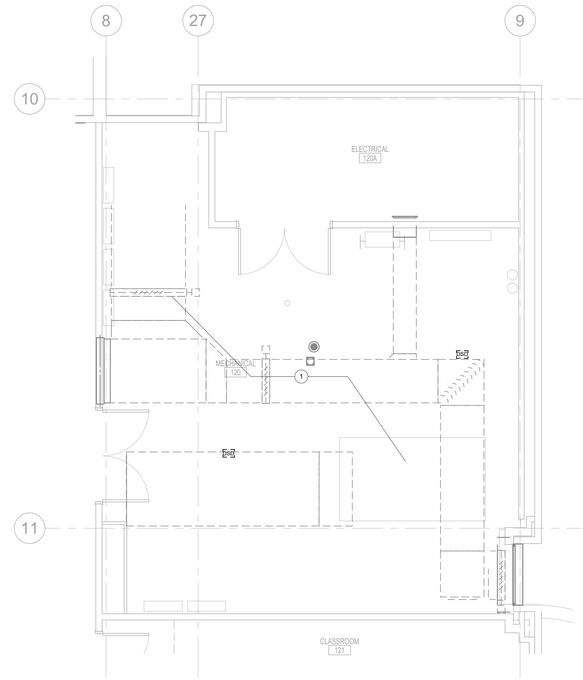


1 (FD106 / FD106) 2ND FLOOR NW MECH ROOM - DEMO PLAN
1/4" = 1'-0"



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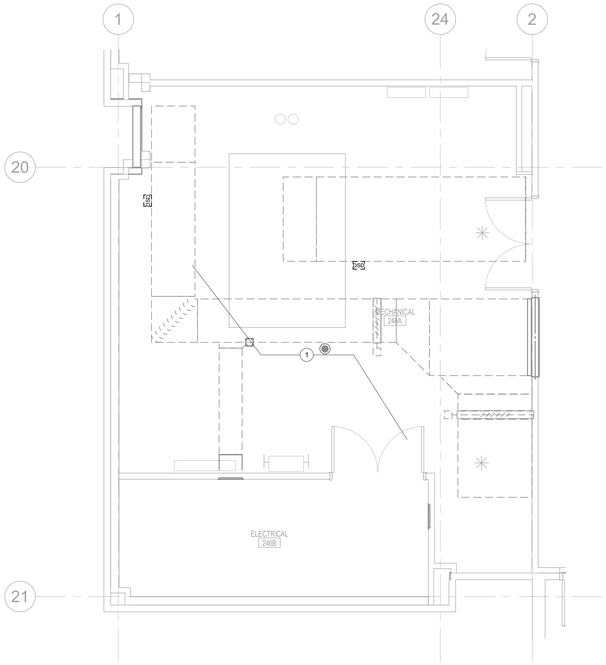
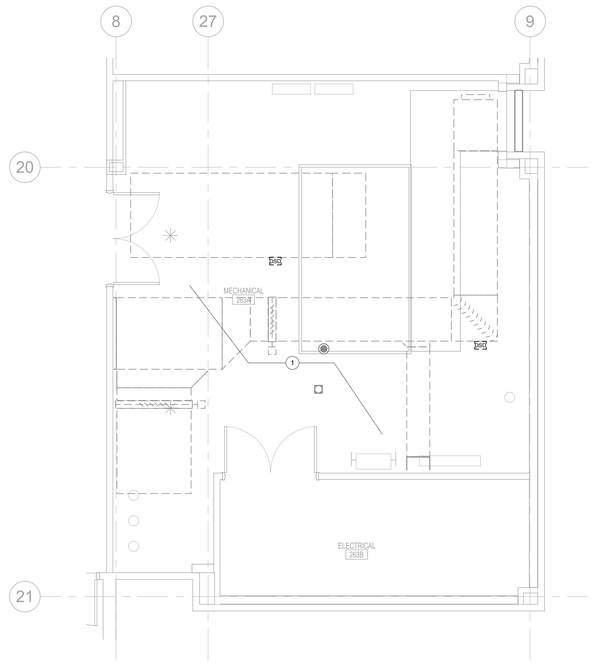
1/4" = 1'-0"



3 (FD106 / FD106) 2ND FLOOR SW MECH ROOM - DEMO PLAN
1/4" = 1'-0"



4 (FD106 / FD106) 2ND FLOOR SE MECH ROOM - DEMO PLAN
1/4" = 1'-0"

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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP

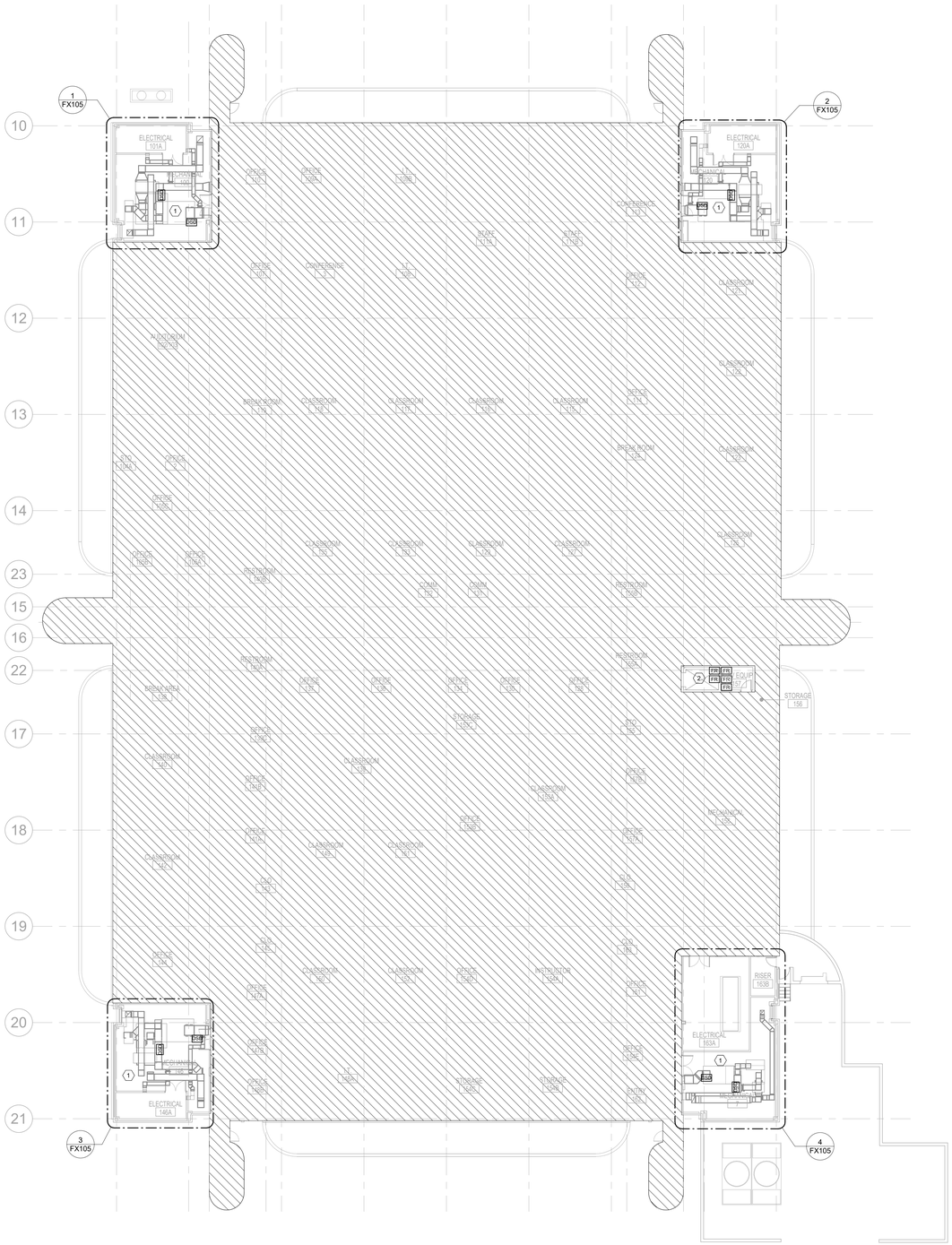
JOHNNY HAROLD WARREN
REGISTERED FIRE PROTECTION ENGINEER
19999
STATE OF MISSISSIPPI
Expiration Date 12-20-24

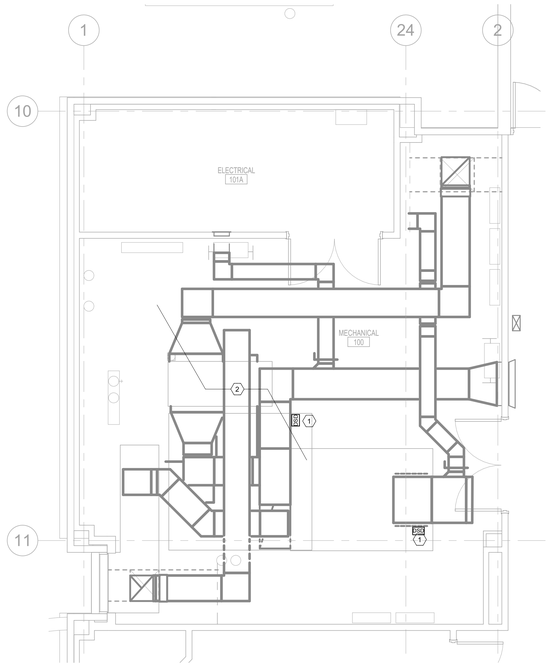
REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — MISSISSIPPI
OFFICE OF CIVIL ENGINEERS

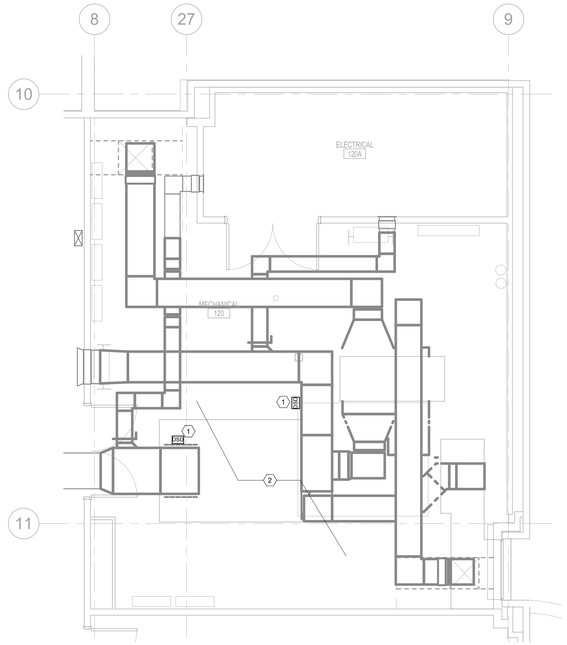
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)		RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: ADP/CAB	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: ENLARGED DEMOLITION PLANS - MECHANICAL ROOMS - 2ND FLOOR	DRAWING NUMBER: FD106
CHECKED: DHW/CWF	DATE: 2/20/24		SHEET 22 OF 74

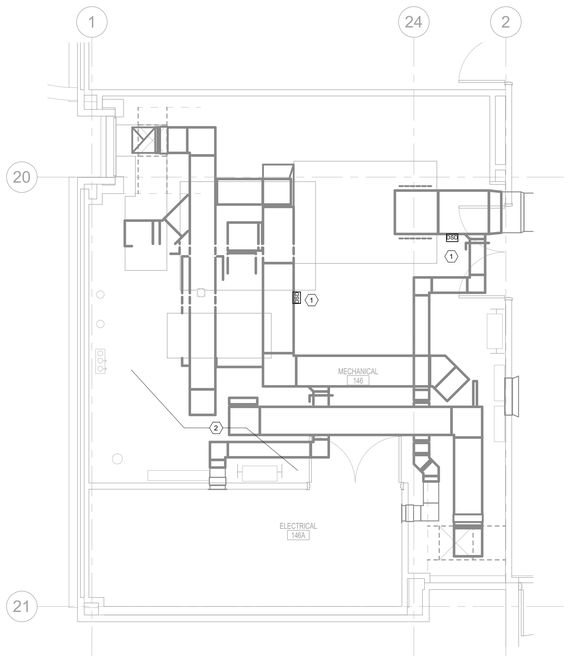

1
FX105
2
FX105
3
FX105
4
FX105
ELECTRICAL
101A
ELECTRICAL
120A
MECHANICAL
120B
ELECTRICAL
146A
MECHANICAL
146B
ELECTRICAL
163A
RISER
163B
EQUIP
STORAGE
158
AUDITORIUM
AUDITORIUM
BREAK ROOM
CLASSROOM
OFFICE
RESTROOM
BREAK AREA
STORAGE
ENTRY
CORRIDOR
CLASSROOM
CLASSROOM
CLASSROOM



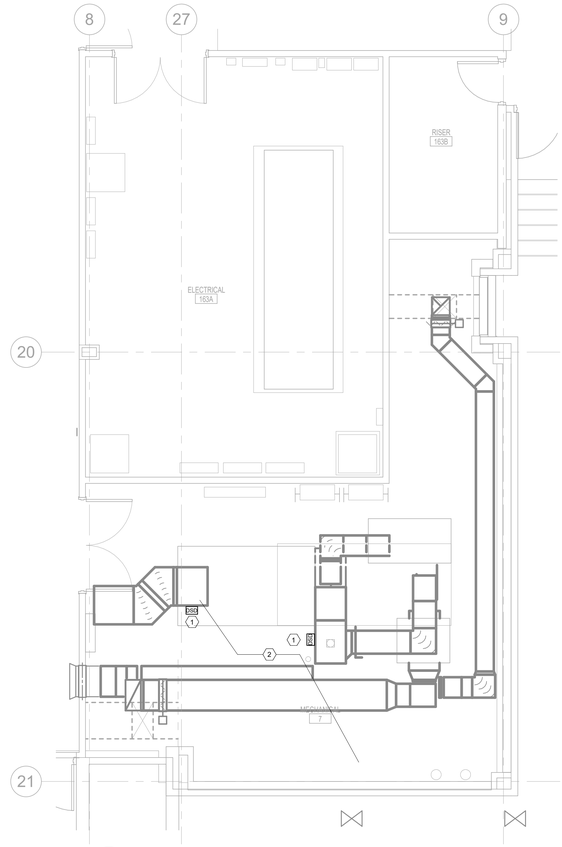
1 1ST FLOOR NW MECH ROOM - RENO PLAN
1/4" = 1'-0"



2 1ST FLOOR NE MECH ROOM - RENO PLAN
1/4" = 1'-0"



3 1ST FLOOR SW MECH ROOM - RENO PLAN
1/4" = 1'-0"



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KEYED NOTES:

1. INSTALL NEW DUCT SMOKE DETECTORS. COORDINATE EXACT LOCATION WITH MECHANICAL PLANS. REUSE EXISTING CONDUIT AND CABLING WHERE POSSIBLE.

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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP

HENRY HAROLD WARREN III
REGISTERED PROFESSIONAL ENGINEER
4-30-24
19999
STATE OF MISSISSIPPI

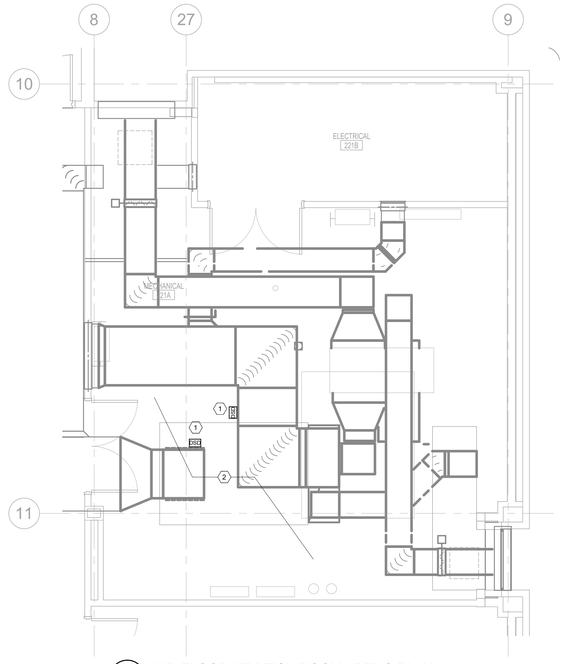
REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — MISSISSIPPI
OFFICE OF CIVIL ENGINEERS

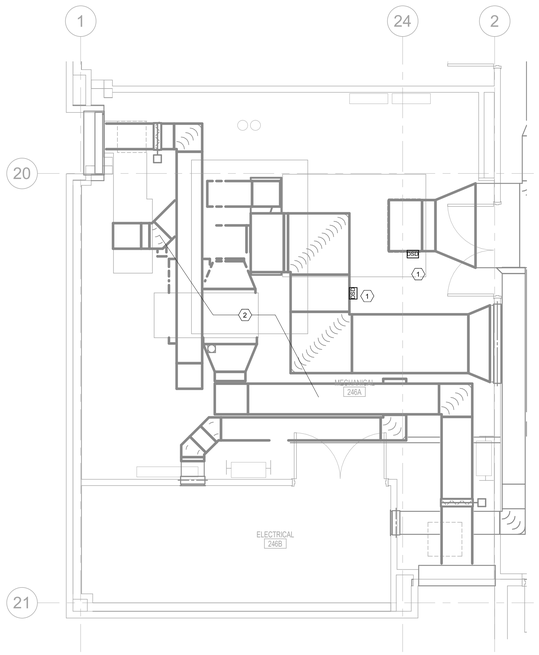
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: ADP/CAB	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: ENLARGED RENOVATION PLANS - MECHANICAL ROOMS - 1ST FLOOR	DRAWING NUMBER: FX105
CHECKED: DHW/CWF	DATE: 2/20/24		SHEET 24 OF 74

1 FX106 FX100 2ND FLOOR NW MECH ROOM - RENO PLAN
1/4" = 1'-0"



2 FX106 FX100 2ND FLOOR NE MECH ROOM - RENO PLAN
1/4" = 1'-0"



3 FX106 FX100 2ND FLOOR SW MECH ROOM - RENO PLAN
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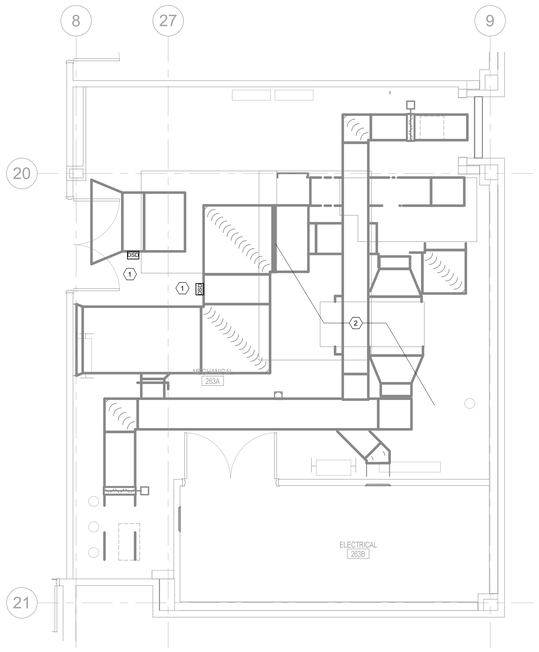

4 FX106 FX100 2ND FLOOR SE MECH ROOM - RENO PLAN
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19999
STATE OF MISSISSIPPI
Expires 12-20-24

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UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

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DRAWN: ADP/CAB	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: ENLARGED RENOVATION PLANS - MECHANICAL ROOMS - 2ND FLOOR	DRAWING NUMBER: FX106
CHECKED: DHW/CWF	DATE: 2/20/24		SHEET 25 OF 74

HVAC ABBREVIATIONS

A	AMPS
AAV	AUTOMATIC AIR VENT
ACH	AIR CHANGE PER HOUR
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AHRI	AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
AS	AIR SEPARATOR
AUX	AUXILIARY
B	BOILER
BD	BALANCING DAMPER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
C	CONDENSATE
CD	CEILING DIFFUSER
CW	CONDENSER WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CL	CENTER LINE
CO	CLEANOUT
COP	COEFFICIENT OF PERFORMANCE
CR	CONDENSATE RETURN (STEAM)
CRAC	COMPUTER ROOM AIR CONDITIONER
CU	CONDENSING UNIT; COPPER
CV	COEFFICIENT OF VALVE
CWP	CONDENSER WATER PUMP
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DELTA-T	TEMPERATURE DIFFERENCE
DEMO	DEMOLISH
DG	DOOR GRILLE
DIA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DS	DUCT SILENCER
DWG	DRAWING
EA	EACH
EAL	EXHAUST AIR LOUVER
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENT RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST AIR GRILLE
ELEC	ELECTRICAL
ER	EXHAUST AIR REGISTER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXH	EXHAUST AIR
F/A	FIRE ALARM
°F	DEGREE FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER; FLOOR DRAIN
FLA	FULL LOAD AMPS
FMS	FLOW MEASURING STATION
FO	FLAT OVAL
FPM	FEET PER MINUTE
FS	FLOAT SWITCH; FLOW SWITCH
FSD	FIRE AND SMOKE DAMPER
FT	FEET
GA	GAUGE
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
HPU	HEAT PUMP UNIT
HR	HOUR
HSPF	HEAT SEASONAL PERFORMANCE FACTOR
HWP	HEATING HOT WATER PUMP
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IAW	IN ACCORDANCE WITH
ICD	INTELLIGENCE COMMUNITY DIRECTIVE
ICS	INTELLIGENCE COMMUNITY STANDARD
IN	INCH
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB	POUNDS
LD	LINEAR DIFFUSER
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSANDS OF BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MVD	MANUAL VOLUME DAMPER
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN; NUMBER
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OAL	OUTDOOR AIR LOUVER
P	PUMP
PD	PRESSURE DROP
PG	PRESSURE GAUGE
PHC	PREHEAT COIL
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RADIUS; RELAY
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RG	RETURN AIR GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RUN LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RR	RETURN AIR REGISTER
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET; SUPPLY FAN
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SR	SUPPLY AIR REGISTER; SIDEWALL REGISTER
SS	STAINLESS STEEL
STM	STEAM
TAB	TEST, ADJUST, BALANCE
TG	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	DOOR UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
V	VOLTS
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
W	WATTS
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
Φ	PHASE

HVAC LEGEND

- SUPPLY AIR DUCT UP
- SUPPLY AIR DUCT DOWN
- RETURN AIR DUCT UP
- RETURN AIR DUCT DOWN
- EXHAUST AIR DUCT UP
- EXHAUST AIR DUCT DOWN
- DEMO DUCTWORK
- EXISTING DUCTWORK
- NEW DUCTWORK
- WxH — RECTANGULAR DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS; FIRST FIGURE IS SIDE SHOWN
- W/H — OVAL DUCTWORK, SIZES SHOWN ARE INTERNAL CLEAR DIMENSIONS; FIRST FIGURE IS SIDE SHOWN
- ø — ROUND GALVANIZED STEEL DUCTWORK; SIZE SHOWN IS SHEET METAL DIAMETER
- FACTORY FABRICATED/INSULATED FLEXIBLE ROUND DUCT
- ROUND BRANCH DUCT TAKEOFF WITH SPIN-IN COLLAR AND MANUAL VOLUME DAMPER
- WxH — RECTANGULAR BRANCH DUCT TAKE OFF WITH 45° COLLAR AND MANUAL VOLUME DAMPER
- SQUARE THROAT ELBOW IN RECTANGULAR DUCT WITH TURNING VANES
- LONG RADIUS ELBOW (R = 1.5 x DIAMETER)
- RECTANGULAR TO ROUND DUCT TRANSITION
- RECTANGULAR TO RECTANGULAR DUCT TRANSITION
- AUTOMATIC DAMPER (OPPOSED)
- AUTOMATIC DAMPER (PARALLEL)
- MANUAL VOLUME DAMPER
- FD — FIRE DAMPER
- SD — SMOKE DAMPER
- FSD — FIRE/SMOKE DAMPER
- FLEXIBLE DUCT CONNECTION
- 24X08 / 2408CD / 200 CFM — CEILING DIFFUSER. PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. ROUND NECK SIZE AND AIRFLOW AS INDICATED. BACK FACE OF DIFFUSER SHALL HAVE INSULATION BLANKET. "24" = FACE SIZE; "08" = NECK DIAMETER 4-WAY THROW OR AS SHOWN ON PLANS
- 24x24RG / 400 CFM / 10ø — RETURN AIR GRILLE. PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. PROVIDE REGISTERS WITH FACE-OPERATED OPPOSED BLADE DAMPER. SIZE, AIRFLOW, DUCT COLLAR AS INDICATED.
- 24x24EG / 400 CFM / 10ø — EXHAUST AIR GRILLE. PROVIDE SURFACE MOUNT STYLE WITH TRIM RING FOR GYPSUM BOARD CEILING AND LAY-IN TYPE AT T-BAR CEILING GRID. PROVIDE REGISTERS WITH FACE-OPERATED OPPOSED BLADE DAMPER. SIZE, AIRFLOW, DUCT COLLAR AS INDICATED.
- DEMO PIPING
- EXISTING PIPING
- NEW PIPING
- PIPE UP
- PIPE DOWN
- PIPE CAP
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- BALANCING VALVE
- GATE VALVE
- INLINE STRAINER VALVE
- INLINE STRAINER WITH BLOWDOWN VALVE AND HOSE BIBB
- M — TWO-WAY CONTROL VALVE
- M — THREE WAY CONTROL VALVE
- AUTOMATIC AIR VENT
- VENTURI FLOW METER
- AUTOMATIC BALANCING VALVE
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- GAUGE AND COCK
- GAUGE TEST PORT (PETE'S PLUG)
- THERMOMETER
- THERMOWELL
- UNION; DIELECTRIC CONNECTION
- CONNECT TO EXISTING
- AHU 1 — EQUIPMENT TAG
- CO2 — CARBON DIOXIDE SENSOR
- H — HUMIDISTAT
- T — THERMOSTAT

HVAC GENERAL NOTES

1. INSTALL ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND STANDARDS.
2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. PROVIDE ALL FITTINGS, ACCESSORIES, PIPING, DUCTWORK, AND CONTROLS AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM TO MEET THE DESIGN INTENT.
3. THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND SIZE OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK.
4. EXISTING CONDITIONS ARE BASED ON AS-BUILT DRAWINGS AND FIELD INVESTIGATIONS. THE SIZE AND LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT SHOWN MAY NOT REFLECT ACTUAL INSTALLATION. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT PRIOR TO BID.
5. COORDINATE EQUIPMENT CLEARANCES (AS RECOMMENDED BY MANUFACTURER) WITH ALL DISCIPLINES BEFORE INSTALLATION.
6. CONCRETE HOUSEKEEPING PADS FOR MECHANICAL EQUIPMENT SHALL BE MINIMUM 4-INCH THICKNESS. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 6 IN. ON ALL SIDES WITH CHAMFERED EDGES.
7. VERIFY CLEARANCE SPACE AVAILABLE, OFFSETS REQUIRED, STRUCTURAL OPENINGS, AND WORK BY OTHER TRADES PRIOR TO FABRICATION OF DUCTWORK AND PIPING. SUBMIT SHOP DRAWINGS ON DUCTWORK AND PIPING LAYOUT. COORDINATE WITH STRUCTURE. PRESSURE TEST ALL DUCTWORK AND PIPING FOR LEAKS.
8. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT.
9. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, VOLUME DAMPERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK THAT REQUIRE SERVICE AND/OR INSPECTION.
10. ALL EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION. PROVIDE DUCT AND PIPE FLEX CONNECTIONS FOR ALL EQUIPMENT CONNECTIONS. PROVIDE VIBRATION ISOLATORS FOR ALL EQUIPMENT; SEE SPECIFICATIONS AND DETAILS.
11. LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
12. ALL EQUIPMENT REQUIRING CONDENSATE DRAIN LINES SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET TO THE NEAREST DISPOSAL POINT AS INDICATED. PROVIDE A TRAP ON ALL DRAIN OUTLETS AND SLOPE PIPING MINIMUM 1/8 IN. PER FOOT.
13. PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINTS ON ALL PIPING.
14. PIPE INSULATION AND VAPOR BARRIERS SHALL BE CONTINUOUS THROUGH PIPE HANGERS.
15. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS.
16. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING MOUNTED DEVICES.
17. EXTERIOR LOUVERS ARE INDICATED FOR INFORMATION ONLY. LOUVER DIMENSIONS INDICATED DO NOT INCLUDE FRAME OR FLANGES.
18. NO DUCTWORK OR PIPING SHALL RUN PARALLEL WITH AND OVER WALLS. AVOID ROUTING DUCTWORK AND PIPING OVER LIGHTS WHEREVER POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN HVAC INSULATION TO TOP OF LIGHTS. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE AROUND MECHANICAL EQUIPMENT FOR PROPER OPERATION AND ROUTINE MAINTENANCE.
19. SEAL ALL DUCT PENETRATIONS OF WALLS AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE-RATED OR NOT. PROVIDE SLEEVES AND SEAL ALL PIPE PENETRATIONS OF WALLS AIRTIGHT.
20. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE FIRE-STOPPED WITH AN APPROVED UL-LISTED PRODUCT.
21. ALL AIR INTAKE OPENINGS TO EXTERIOR SHALL HAVE A MIN 10'-0" CLEARANCE FROM ANY EXHAUST OPENING TO PREVENT RECIRCULATION.
22. MOUNT DUCTWORK AS HIGH AS POSSIBLE WHERE EXPOSED, UNLESS OTHERWISE NOTED.
23. ALL EXPOSED CONTROL WIRING (MECHANICAL AND ELECTRICAL ROOMS) SHALL BE IN CONDUIT. ALL REMAINING CONTROL WIRING SHALL BE PLENUM-RATED CABLE.
24. ALL NEW HVAC EQUIPMENT CONTROLS SHALL BE INTEGRATED WITH THE EXISTING BUILDING AUTOMATION SYSTEM (JCI). COORDINATE CONTROLS WORK WITH EXISTING BUILDING AUTOMATION SYSTEM PROVIDER. PROVIDE CONSISTENCY WITH EXISTING POINT NAMING, DYNAMIC GRAPHICS, SCHEDULING, AND ALARMS. BUILDING AUTOMATION SYSTEM SHALL BE INTEGRATED WITH THE EXISTING BASEWIDE ENERGY MANAGEMENT SYSTEM.
25. ALL NEW UTILITIES ROUTED THROUGH THE SECURE BOUNDARY SHALL HAVE SECURITY MEASURES IN ACCORDANCE WITH ICD/ICS 705 REQUIREMENTS.

PHASING NOTES

GENERAL:
REFER TO ARCHITECTURAL MASTER PHASING PLAN.
COORDINATE ALL PHASING STAGES WITH CONTRACTING OFFICER.

HVAC PHASING:
COMPLETELY RENOVATE HVAC SYSTEMS ON ONE FLOOR AT A TIME. EXISTING HVAC SYSTEMS ON THE SECOND FLOOR SHALL BE COMPLETELY RENOVATED AND NEW HVAC SYSTEMS SHALL BE INSTALLED, TESTED, AND FULLY FUNCTIONAL PRIOR TO BEGINNING WORK ON THE FIRST FLOOR HVAC SYSTEMS WITH THE EXCEPTION OF CHILLER AND CHILLED WATER CRAC PHASING. OBTAIN WRITTEN APPROVAL FROM CONTRACTING OFFICER TWO WEEKS PRIOR TO BEGINNING WORK ON FIRST OR SECOND LEVELS. COORDINATE WITH ELECTRICAL, CONTROLS, AND TAB CONTRACTORS.

CHILLER PHASING:
REPLACE ONLY ONE OF TWO CHILLERS AT A TIME. NEW CHILLER AND ASSOCIATED CONTROLS SHALL BE INSTALLED, TESTED, AND FULLY OPERATIONAL PRIOR TO REPLACING THE SECOND CHILLER. OBTAIN WRITTEN APPROVAL FROM CONTRACTING OFFICER TWO WEEKS PRIOR TO REMOVING EACH CHILLER. COORDINATE WITH ELECTRICAL, CONTROLS, & TAB CONTRACTORS.

CHILLED WATER CRAC UNIT PHASING:
THE FOLLOWING COMPUTER ROOM AIR CONDITIONING UNITS MAY BE REPLACED AT ANY TIME:
CRAC-6,-7,-8,-9,-10, & -11.
THE FOLLOWING COMPUTER ROOM AIR CONDITIONING UNITS MAY BE REPLACED ONLY AFTER THE MAIN ELECTRICAL SWITCH GEAR HAS BEEN REPLACED AND THE NORTHWEST QUADRANT MECHANICAL ROOM ELECTRICAL PANEL HAS BEEN UPGRADED.
CRAC-1,-2,-3,-4,-5,-12,-13,-14.
COORDINATE WITH ELECTRICAL, CONTROLS, & TAB CONTRACTORS.

DX SPLIT SYSTEM CRAC UNIT PHASING:
DX SPLIT SYSTEM COMPUTER ROOM AIR CONDITIONING UNIT (CRAC-1.1) SHALL BE INSTALLED AND FULLY OPERATIONAL PRIOR TO DEMOLITION OF EXISTING CHILLED WATER COMPUTER ROOM AIR CONDITIONING UNIT (EX. CRAC-1). DATA ROOM COOLING UNITS SHALL NEVER BE SIMULTANEOUSLY INOPERABLE. DATA ROOM SHALL NOT ENTER OUTAGE SCENARIO AT ANY TIME EXCEPT DURING MAIN ELECTRICAL SWITCH GEAR REPLACEMENT (7-DAY MAXIMUM).
CRAC-1.1 MAY BE INSTALLED ONLY AFTER MAIN ELECTRICAL SWITCH GEAR HAS BEEN REPLACED AND NORTHWEST QUADRANT MECHANICAL ROOM ELECTRICAL PANEL HAS BEEN UPGRADED.

PENETRATIONS:
SECOND LEVEL FLOOR PENETRATIONS SHALL BE COMPLETED AND PROTECTED DURING SECOND LEVEL PHASE. COORDINATE WITH ELECTRICAL.

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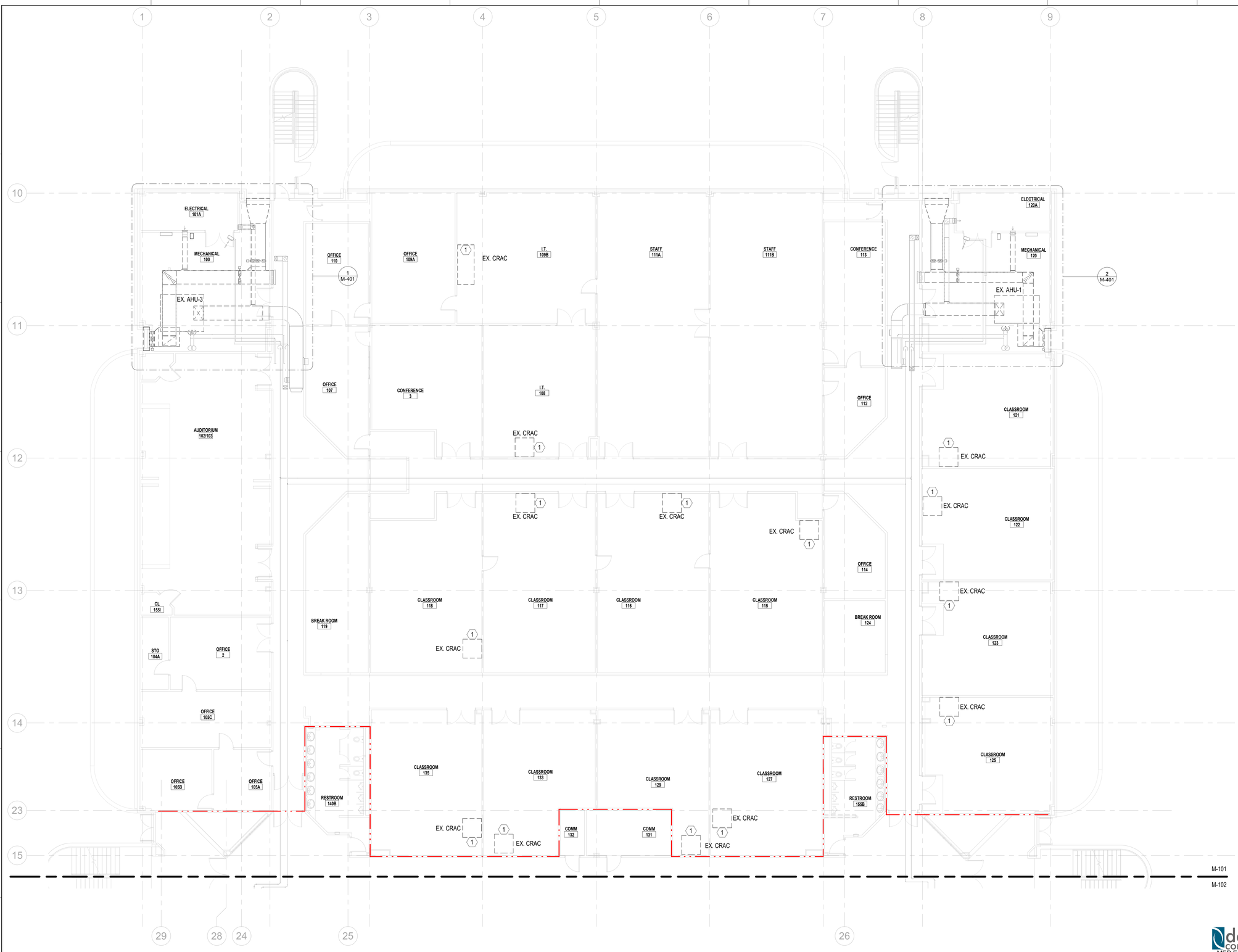
UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — BILOXI — MISSISSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR STENNIS HALL

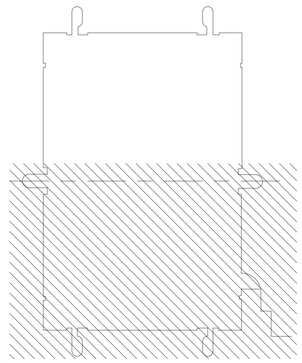
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: IGL / PROJECT NUMBER: MAHG 171095	SHEET NAME: LEGEND, NOTES & ABBREVIATIONS	DRAWING NUMBER: M-001
CHECKED: JAM / DATE: 02/20/24		SHEET 28 OF 74

SHEET NOTES

#	
1	DISCONNECT AND REMOVE EXISTING COMPUTER ROOM AIR CONDITIONING UNIT. EXISTING CHILLED WATER, DOMESTIC WATER, AND CONDENSATE PIPING TO BE REUSED; SEE NEW WORK.



1 M-101 1ST FLOOR NORTH - DEMOLITION
1/8" = 1'-0"



KEY PLAN - NORTH
NOT TO SCALE

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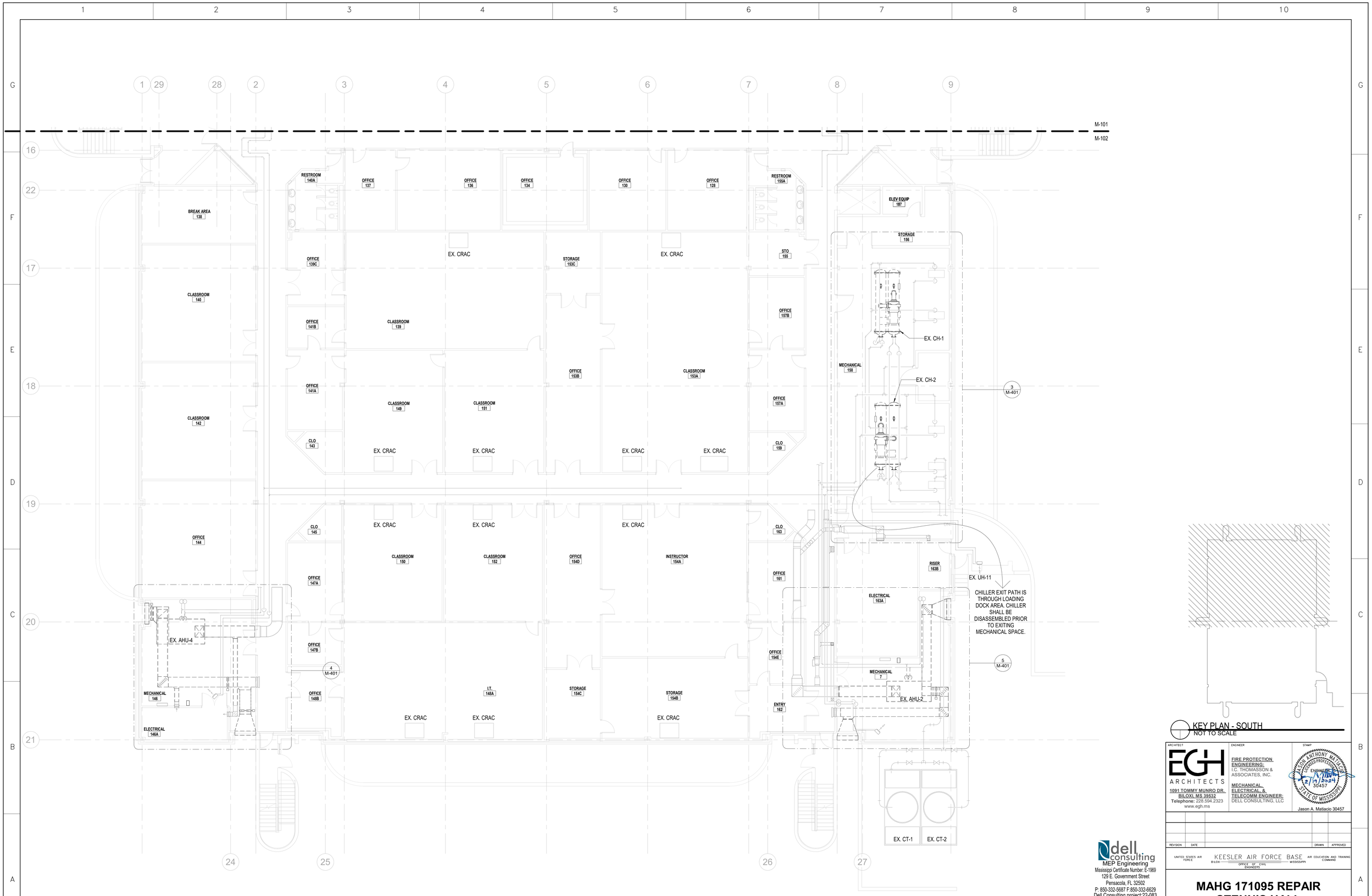
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: IGL	PROJECT NUMBER: MAHG 171095	SHEET NAME: 1ST FLOOR NORTH - DEMOLITION	DRAWING NUMBER: M-101
CHECKED: JAM	DATE: 02/20/24		SHEET 27 OF 74

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"



1 1ST FLOOR SOUTH - DEMOLITION
M-102
1/8" = 1'-0"

KEY PLAN - SOUTH
NOT TO SCALE

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NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

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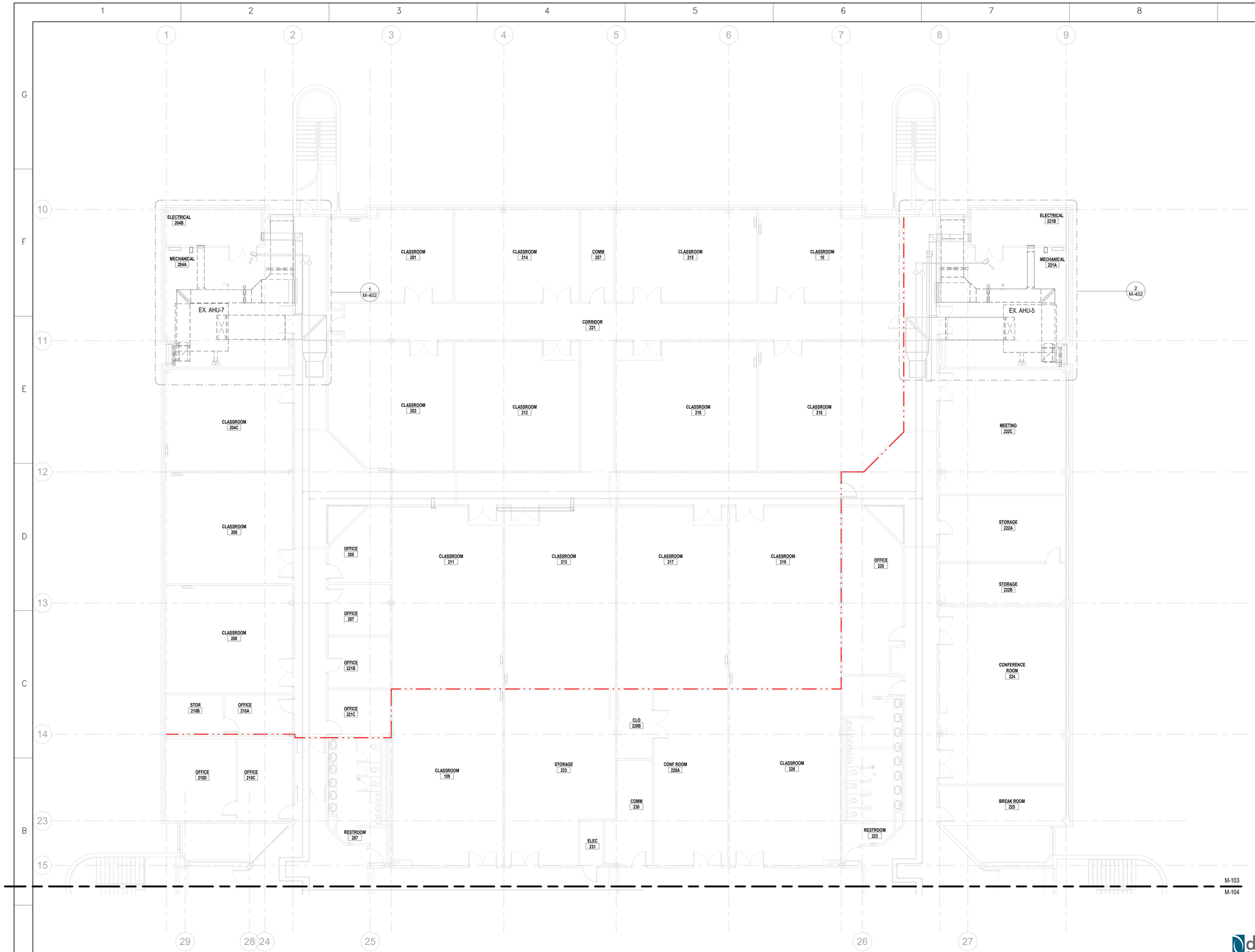
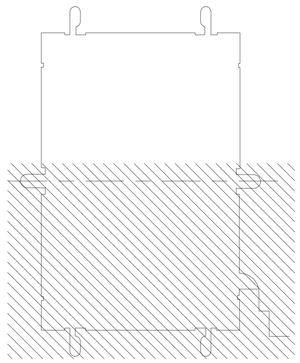
SUBMITTED: (Chief of Contracts Design)		RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: RDL	PROJECT NUMBER: MAHG 171095	SHEET NAME: 1ST FLOOR SOUTH - DEMOLITION	DRAWING NUMBER: M-102
CHECKED: JAM	DATE: 02/20/24		SHEET 28 OF 74



1 M-103 2ND FLOOR NORTH - DEMOLITION
1/8" = 1'-0"



KEY PLAN - NORTH
NOT TO SCALE

NORTH

8' 0' 8' 16'
SCALE: 1/8"=1'-0"

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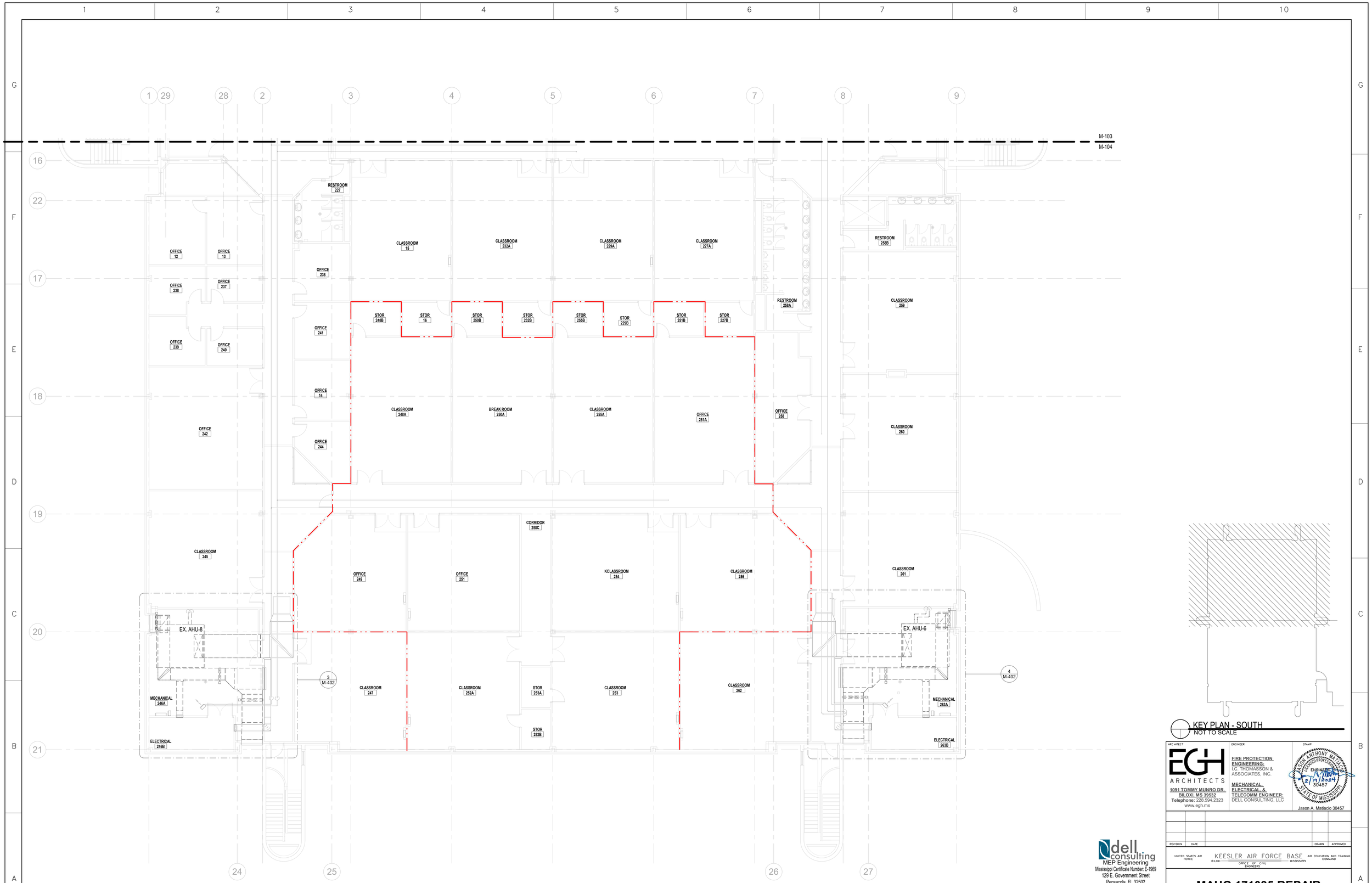
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Chief of Engineering) G. REED
FACILITY NUMBER: B1002
DRAWN: KL
PROJECT NUMBER: MAHG 171095
SHEET NAME: 2ND FLOOR NORTH - DEMOLITION
DRAWING NUMBER: M-103
CHECKED: JAM
DATE: 02/2024
SHEET 29 OF 74



1 2ND FLOOR SOUTH - DEMOLITION
M-104
1/8" = 1'-0"

1 KEY PLAN - SOUTH
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NORTH

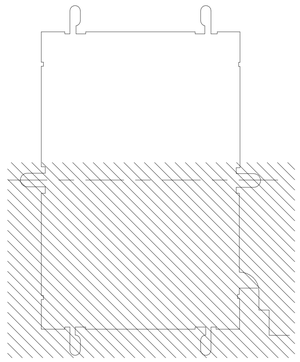
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: KK	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 2ND FLOOR SOUTH - DEMOLITION	DRAWING NUMBER: M-104
CHECKED: JAM	DATE: 02/00/24	SHEET 30 OF 74

1 1ST FLOOR NORTH - HVAC
1/8" = 1'-0"

SHEET NOTES

#	
1	INSTALL COMPUTER ROOM AIR CONDITIONING EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE INSULATED REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNIT.
2	PROVIDE COMPUTER ROOM AIR CONDITIONING UNIT WITH NECESSARY ACCESSORIES. SEE SCHEDULES AND DETAILS. CONNECT TO EXISTING CHILLED WATER, DOMESTIC WATER, AND CONDENSATE PIPING. PROVIDE CONTROL ACCESSORIES NECESSARY FOR BAS INTEGRATION. REWORK FLOOR TILES AS REQUIRED FOR NEW EQUIPMENT FOOTPRINT, COODINATE WITH ARCHITECTURAL.
3	CONNECT UPFLOW COMPUTER ROOM AIR CONDITIONING UNIT TO EXISTING DUCTWORK. PROVIDE INSULATED DUCT TRANSITION AND FLEXIBLE CONNECTION BETWEEN UNIT AND EXISTING DUCTWORK.
4	PROVIDE TEMPORARY SPOT COOLER DURING RENOVATION EFFORT. TEMPORARY SPOT COOLER CAPACITY SHALL BE NOT LESS THAN 12,000 BTU. WASTE HEAT SHALL BE REJECTED TO ABOVE CEILING PLENUM BY MEANS OF TEMPORARY DUCTWORK. TEMPORARY SPOT COOLER SHALL BE ACTIVE AT ALL TIMES AND SHALL NOT EXPERIENCE AN OUTAGE SCENARIO.



KEY PLAN - NORTH
NOT TO SCALE

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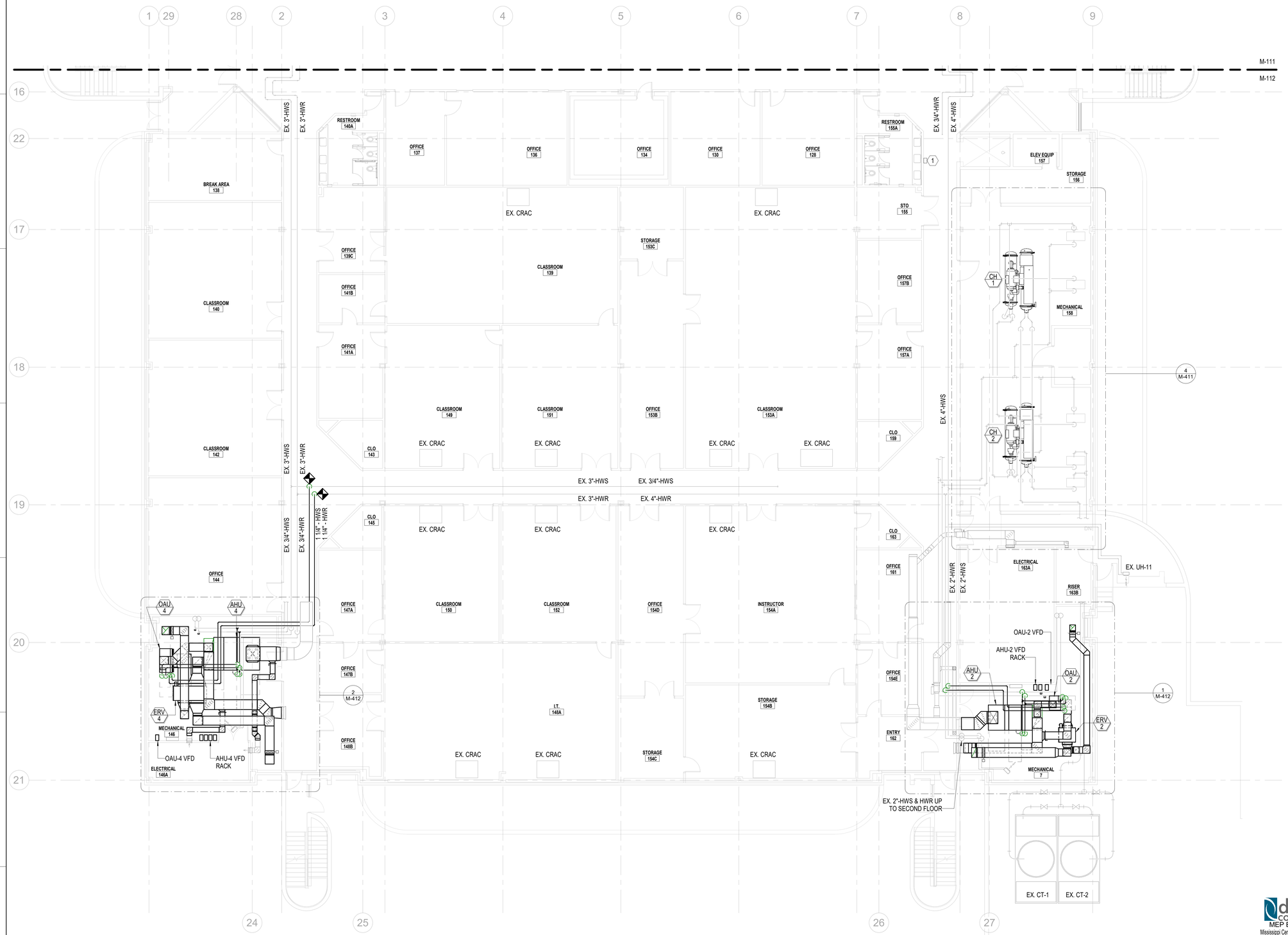
NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

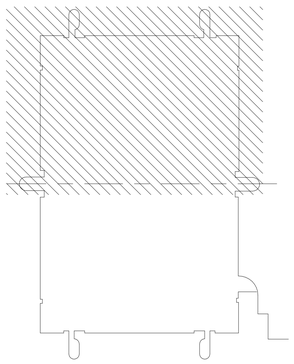
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: KL	PROJECT NUMBER: MAHG 71-095	SHEET NAME: 1ST FLOOR NORTH - HVAC	DRAWING NUMBER: M-111
CHECKED: JAM	DATE: 02/2024		SHEET 31 OF 74

SHEET NOTES

#	
1	LOCATION OF FIRST FLOOR VENTILATION EMERGENCY SHUTOFF SWITCH. PROVIDE NECESSARY ACCESSORIES FOR BAS INTENGRATION. ALL EXPOSED CONTROL WIRING SHALL BE IN CONDUIT. PAINT SURFACE MOUNTED CONDUIT TO COLOR SELECTED BY ARCHITECT.



1 M-112 1ST FLOOR SOUTH - HVAC
1/8" = 1'-0"



KEY PLAN - SOUTH
NOT TO SCALE

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2/7/2024
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SCALE: 1/8"=1'-0"

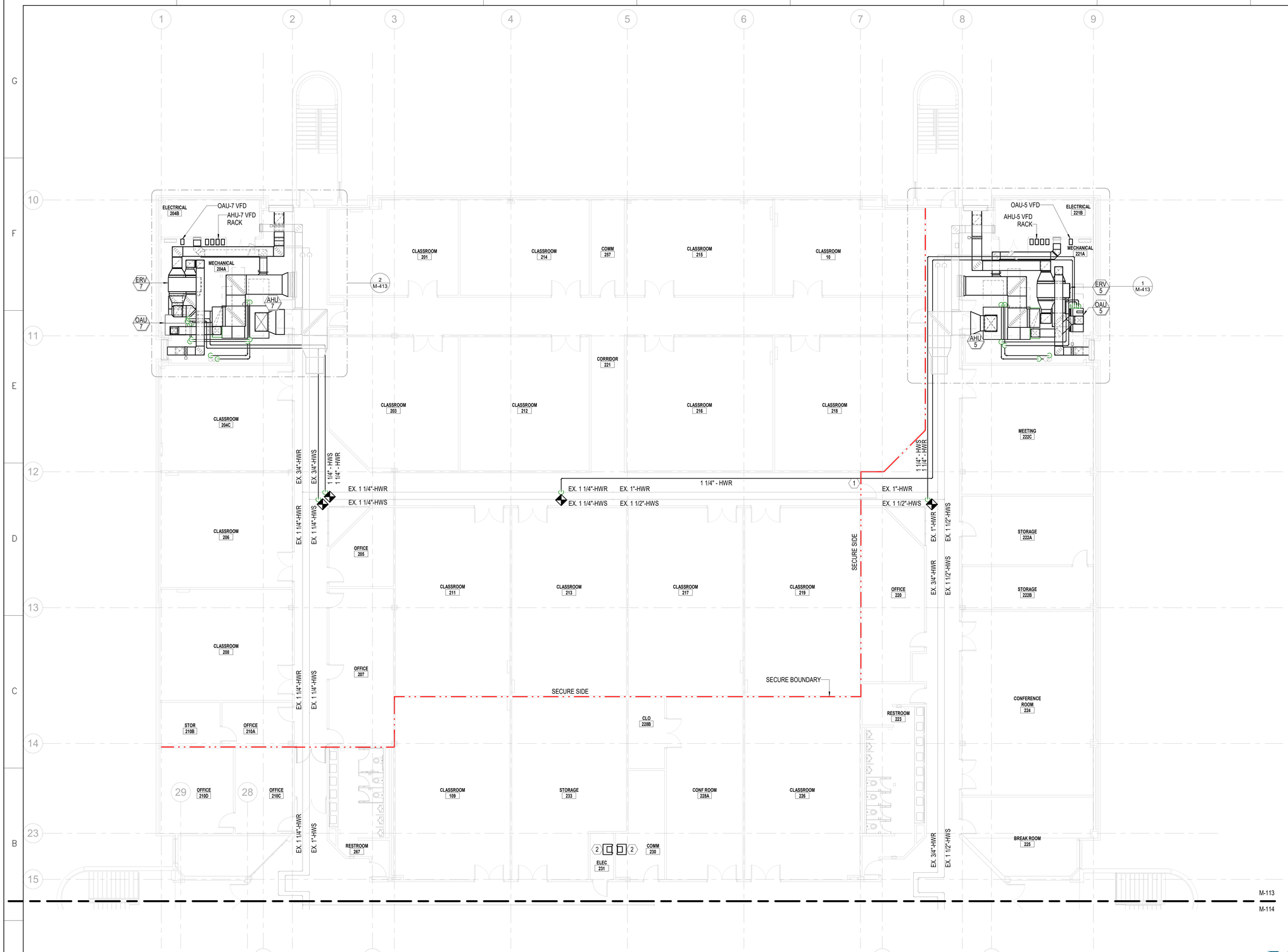
UNITED STATES AIR FORCE
KEESLER AIR FORCE BASE
BILOXI — MISSISSIPPI
OFFICE OF CIVIL ENGINEERS
AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR STENNIS HALL

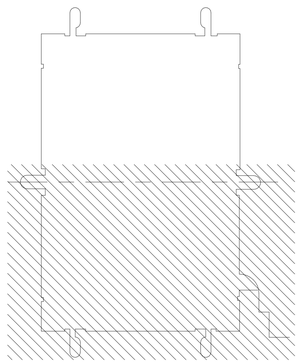
SUBMITTED: (Chief of Contracts Design)		RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: IGL	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 1ST FLOOR SOUTH - HVAC	DRAWING NUMBER: M-112
CHECKED: JAM	DATE: 02/2024		SHEET 32 OF 74

SHEET NOTES

#	
1	PROVIDE SECURITY BOUNDARY PENETRATION MEASURES IN ACCORDANCE WITH ICD/ICS 705; SEE DETAILS.
2	PROVIDE TEMPORARY SPOT COOLER DURING RENOVATION EFFORT. TEMPORARY SPOT COOLER CAPACITY SHALL BE NOT LESS THAN 12,000 BTU. WASTE HEAT SHALL BE REJECTED TO ABOVE CEILING PLENUM BY MEANS OF TEMPORARY DUCTWORK. TEMPORARY SPOT COOLER SHALL BE ACTIVE AT ALL TIMES AND SHALL NOT EXPERIENCE AN OUTAGE SCENARIO.



1 M-113 2ND FLOOR NORTH - HVAC
1/8" = 1'-0"



KEY PLAN - NORTH
NOT TO SCALE

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FIRE PROTECTION ENGINEERING:
I.C. THOMASSON & ASSOCIATES, INC.
MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP
JASON ANTHONY MATIACIO
LICENSED PROFESSIONAL ENGINEER
30457
STATE OF MISSISSIPPI
2/9/2024
Jason A. Matiacio 30457

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE, BILOXI, MISSISSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR
STENNIS HALL

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MEP Engineering
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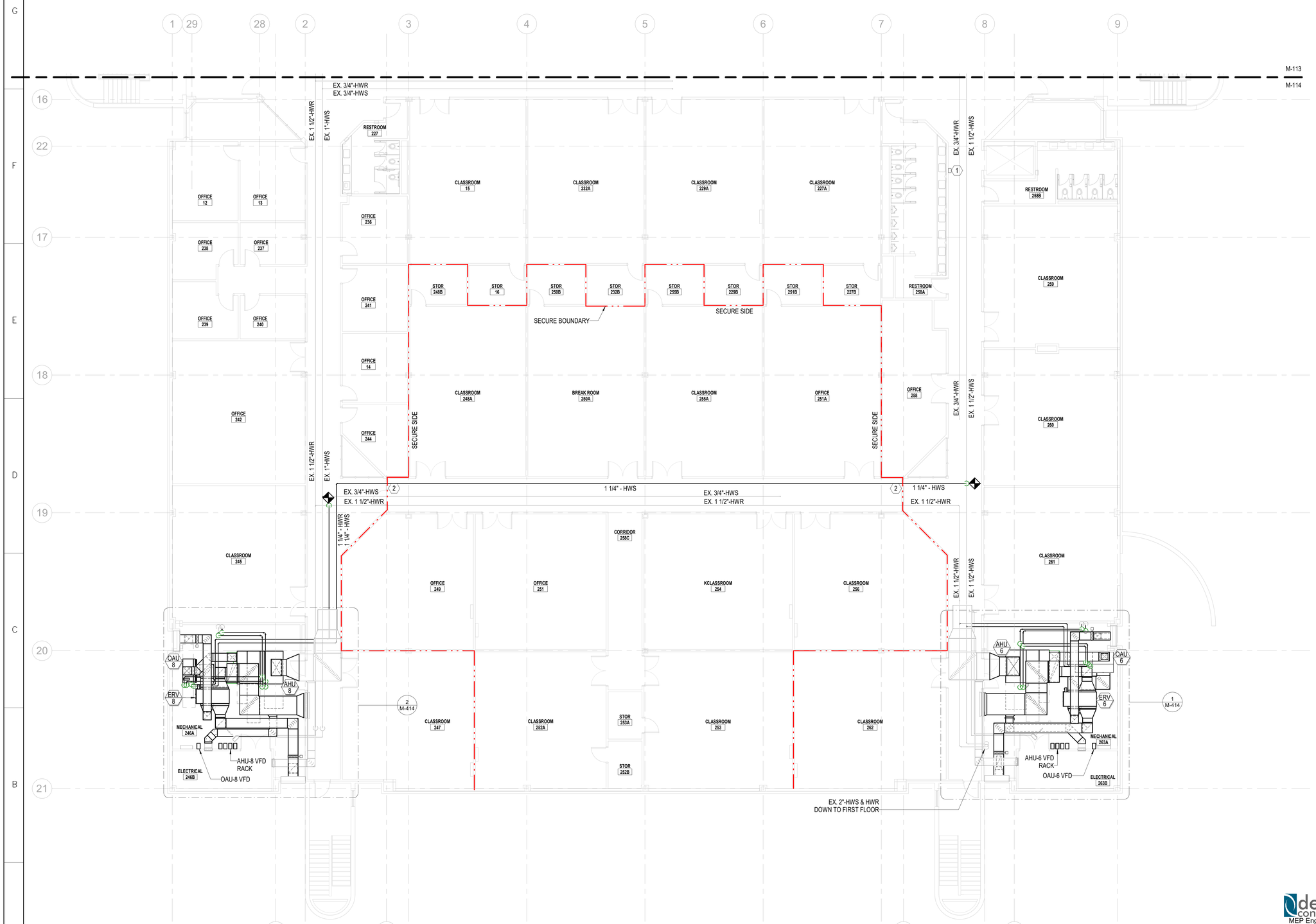
Pensacola, FL 32502
P: 850-332-5687 F:850-332-6629
Dell Consulting project:22-083

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

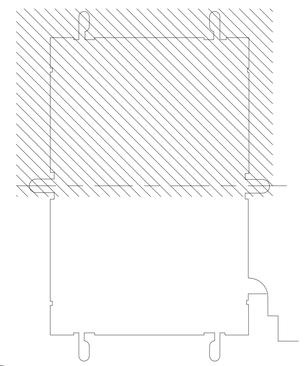
SUBMITTED: (Chief of Contracts Design)		RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: IGL	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 2ND FLOOR NORTH - HVAC	DRAWING NUMBER: M-113
CHECKED: JAM	DATE: 02/09/24		SHEET 33 OF 74

SHEET NOTES

#	
1	LOCATION OF SECOND FLOOR VENTILATION EMERGENCY SHUTOFF SWITCH. PROVIDE NECESSARY ACCESSORIES FOR BAS INTENGRATION. ALL EXPOSED CONTROL WIRING SHALL BE IN CONDUIT. PAINT SURFACE MOUNTED CONDUIT TO COLOR SELECTED BY ARCHITECT.
2	PROVIDE SECURITY BOUNDARY PENETRATION MEASURES IN ACCORDANCE WITH ICD/ICS 705; SEE DETAILS.



1 M-114 2ND FLOOR SOUTH - HVAC
1/8" = 1'-0"



KEY PLAN - SOUTH
NOT TO SCALE

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STATE OF MISSISSIPPI
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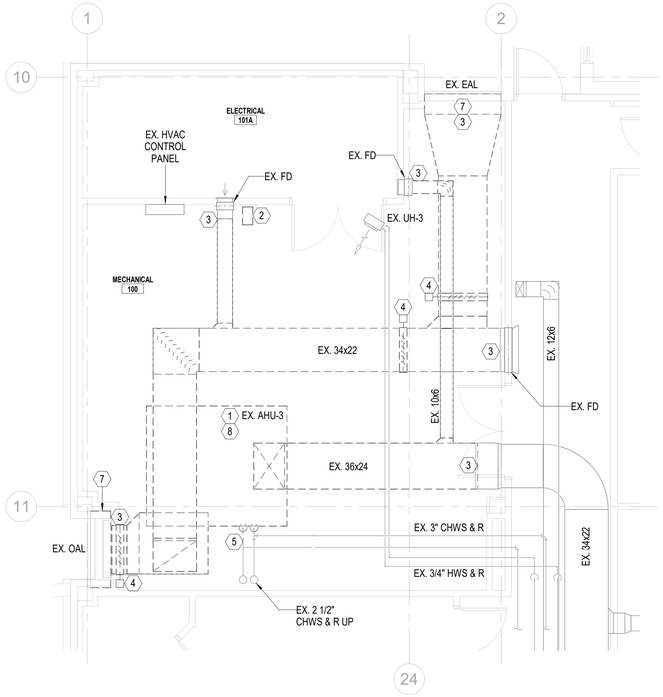
UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

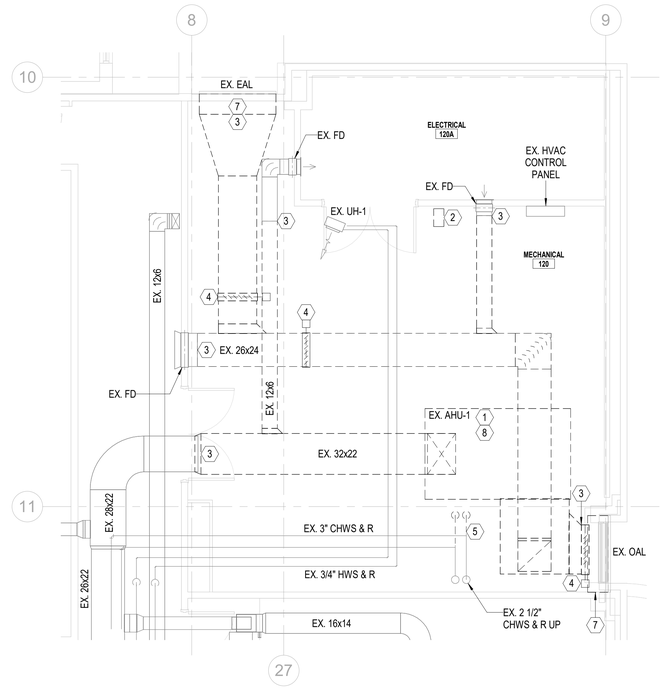
MAHG 171095 REPAIR STENNIS HALL

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

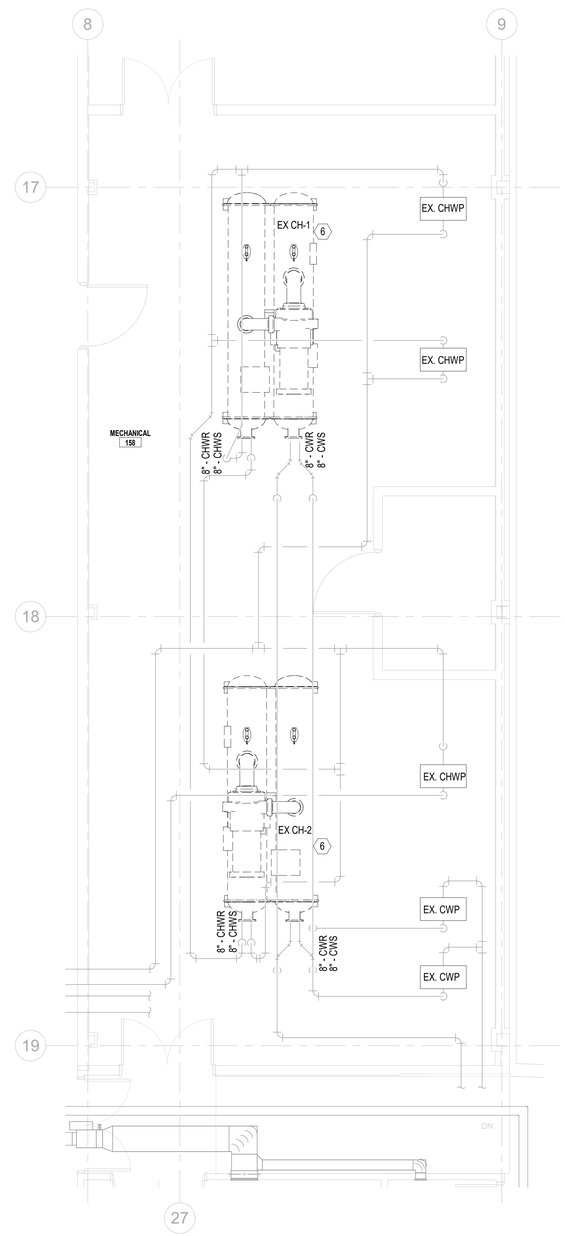
SUBMITTED: (Chief of Controcts Design)		RECOMMENDED: (Chief ofEngineering) G. REED	FACILITY NUMBER: B1002
DRAWN: IOL	PROJECT NUMBER: MAHG-T-1095	SHEET NAME: 2ND FLOOR SOUTH - HVAC	DRAWING NUMBER: M-114
CHECKED: JAM	DATE: 020304		SHEET 34 OF 74



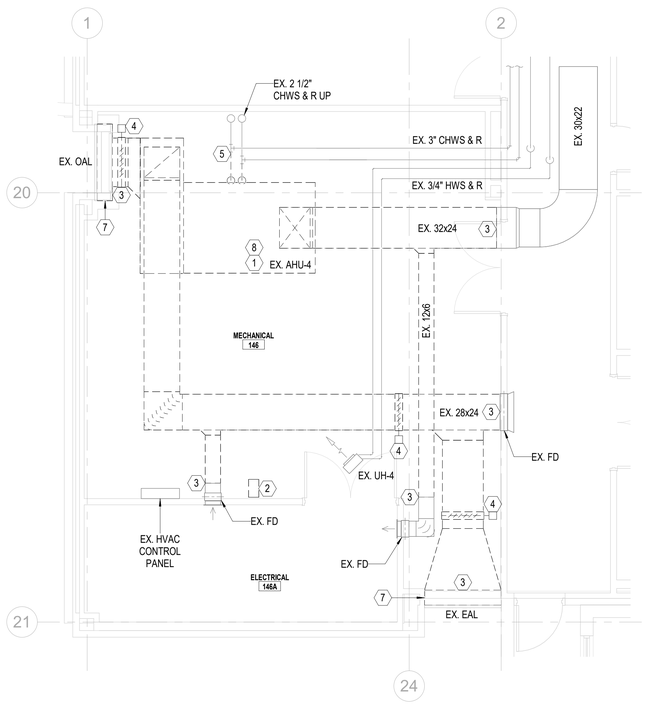
1 ENLARGED 1ST FLOOR NORTH WEST MECHANICAL - DEMOLITION
1/4" = 1'-0"



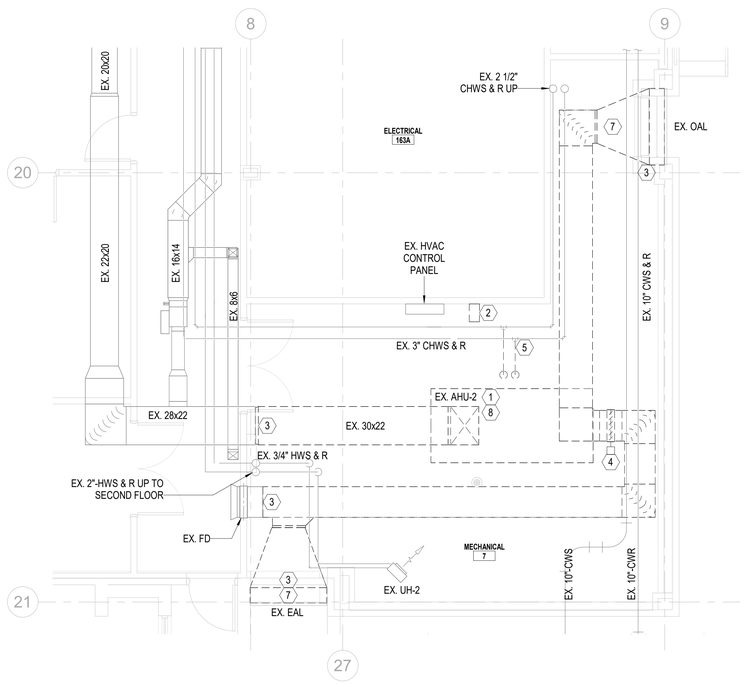
2 ENLARGED 1ST FLOOR NORTH EAST MECHANICAL - DEMOLITION
1/4" = 1'-0"



3 ENLARGED 1ST FLOOR EAST MECHANICAL - DEMOLITION
1/4" = 1'-0"



4 ENLARGED 1ST FLOOR SOUTH WEST MECHANICAL - DEMOLITION
1/4" = 1'-0"



5 ENLARGED 1ST FLOOR SOUTH EAST MECHANICAL - DEMOLITION
1/4" = 1'-0"

SHEET NOTES

#	
1	DISCONNECT AND REMOVE EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED ACCESSORIES, SUPPORTS, HOUSEKEEPING PAD, AND PLENUM BOXES IN PREPARATION FOR NEW EQUIPMENT LAYOUT; SEE PHASING NOTES (M-001) AND REFER TO NEW WORK.
2	DISCONNECT AND REMOVE EXISTING VARIABLE FREQUENCY DRIVE AND ALL ASSOCIATED ACCESSORIES.
3	DISCONNECT AND REMOVE EXISTING DUCTWORK BACK TO POINT INDICATED. PROTECT DUCT OPENING FROM DIRT, DUST, AND DEBRIS IN PREPARATION FOR NEW DUCT CONNECTION; SEE NEW WORK.
4	DISCONNECT AND REMOVE EXISTING CONTROL DAMPER AND ALL ASSOCIATED ACCESSORIES.
5	DISCONNECT AND REMOVE EXISTING CHILLED WATER PIPING BACK TO POINT INDICATED. PROTECT PIPE OPENINGS FROM DIRT, DUST, AND DEBRIS IN PREPARATION FOR NEW PIPING CONNECTION; SEE NEW WORK .
6	DISCONNECT AND REMOVE EXISTING WATER-COOLED CHILLER AND ALL ASSOCIATED ACCESSORIES. CHILLER SHALL BE DISASSEMBLED INTO 3 OR 4 PIECES AND REMOVED FROM MECHANICAL ROOM THROUGH LOADING BAY AREA. PROTECT PIPE OPENINGS FROM DIRT, DUST, AND DEBRIS IN PREPARATION FOR NEW EQUIPMENT AND PIPING CONNECTIONS. REMOVE PIPING BETWEEN CHILLER AND ISOLATION VALVES AND REWORK PIPE CONNECTIONS AS REQUIRED FOR NEW CHILLER INSTALLATION. PROVIDE PIPING SPECIALTIES; SEE PHASING NOTES (M-001), DETAILS, AND REFER TO NEW WORK.
7	DISCONNECT AND REMOVE EXISTING 120"x60" LOUVER PLENUM BOX. BLANK OFF INTERIOR OF LOUVER WITH SHEET METAL. INSULATE AND SEAL WATER AND AIR TIGHT.
8	PRIOR TO PERFORMING ANY DEMOLITION WORK, CONTRACTOR SHALL MEASURE AND RECORD THE AIRFLOW RATE OF THE SUPPLY, RETURN, OUTSIDE AIR, AND DUCT STATIC PRESSURE OF THE EXISTING AIR HANDLING UNIT DURING MAXIMUM COOLING LOAD CONDITIONS. SUBMIT TYPED REPORT TO ENGINEER OF RECORD FOR REVIEW. NEW AIR HANDLING UNIT SUPPLY AIRFLOW RATE SHALL BE REBALANCED SUCH THAT SUPPLY AIR WILL NOT EXCEED THE EXISTING RECORDED PEAK SUPPLY AIRFLOW RATE. OUTSIDE AIRFLOW RATE SHALL BE REBALANCED TO SCHEDULED VALUES.

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2/7/2024
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STATE OF MISSISSIPPI
Jason A. Matiacio 30457

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE, BILOXI, MISSISSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

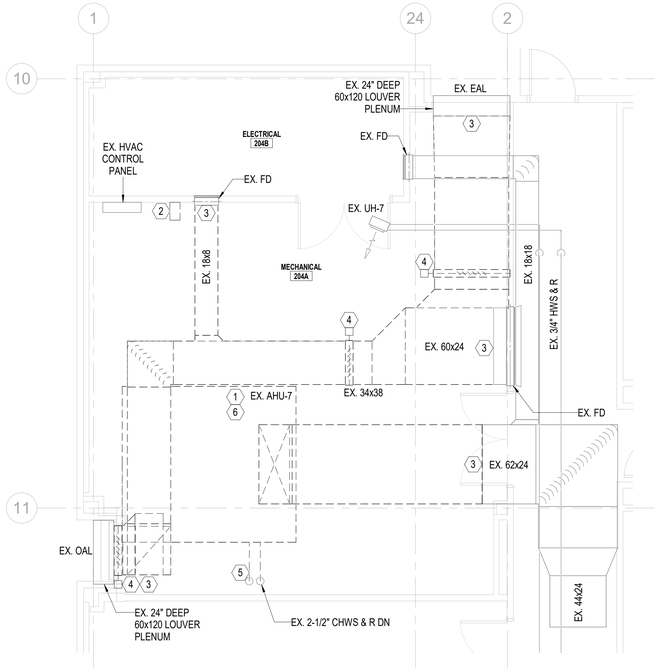
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)

RECOMMENDED: (Chief of Engineering)
G. REED

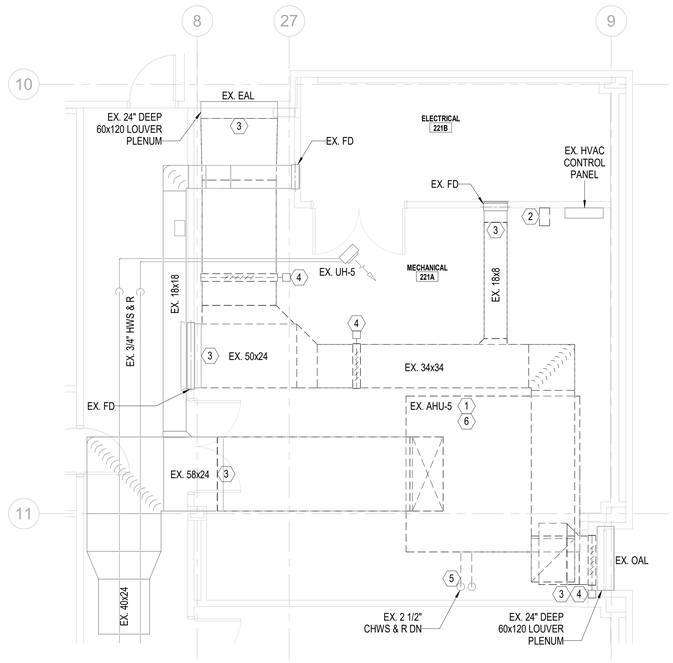
FACILITY NUMBER: B1002

DRAWN: KK
PROJECT NUMBER: MAHG 17-1095
CHECKED: JAM
DATE: 02/20/24
SHEET NAME: ENLARGED 1ST FLOOR PLAN - DEMOLITION
DRAWING NUMBER: M-401
SHEET 35 OF 74



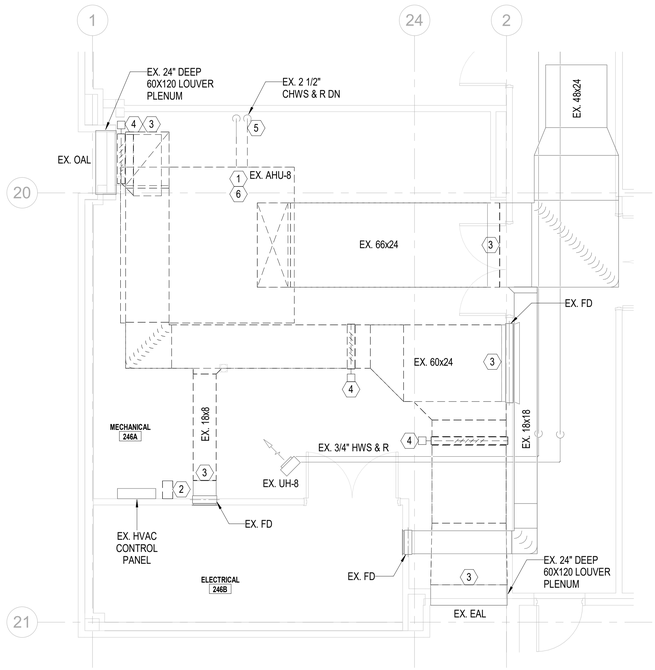
1 ENLARGED 2ND FLOOR NORTH WEST MECHANICAL - DEMOLITION

1/4" = 1'-0"



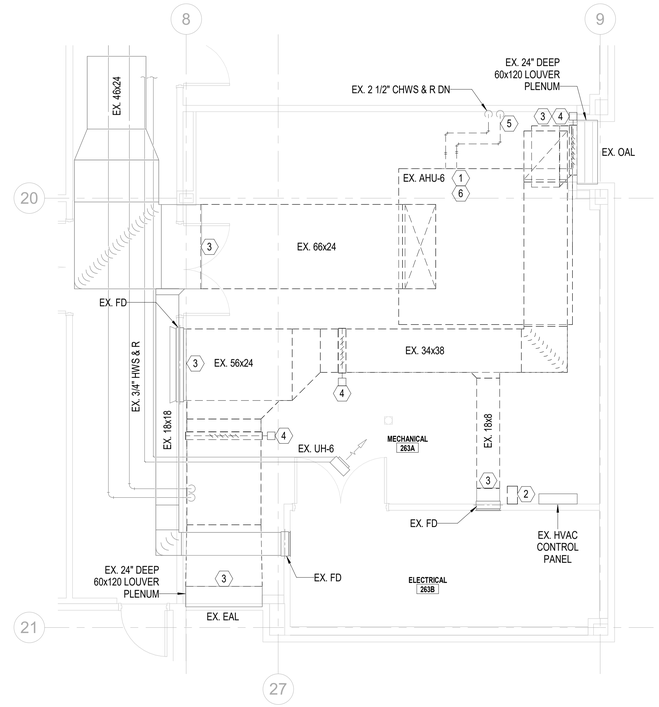
2 ENLARGED 2ND FLOOR NORTH EAST MECHANICAL - DEMOLITION

1/4" = 1'-0"



3 ENLARGED 2ND FLOOR SOUTH WEST MECHANICAL - DEMOLITION

1/4" = 1'-0"



4 ENLARGED 2ND FLOOR SOUTH EAST MECHANICAL - DEMOLITION

1/4" = 1'-0"

SHEET NOTES

#	
1	DISCONNECT AND REMOVE EXISTING AIR HANDLING UNIT AND ALL ASSOCIATED ACCESSORIES, SUPPORTS, HOUSEKEEPING PAD, AND PLENUM BOXES IN PREPARATION FOR NEW EQUIPMENT LAYOUT; SEE PHASING NOTES (M-001) AND REFER TO NEW WORK.
2	DISCONNECT AND REMOVE EXISTING VARIABLE FREQUENCY DRIVE AND ALL ASSOCIATED ACCESSORIES.
3	DISCONNECT AND REMOVE EXISTING DUCTWORK BACK TO POINT INDICATED. PROTECT DUCT OPENING FROM DIRT, DUST, AND DEBRIS IN PREPARATION FOR NEW DUCT CONNECTION; SEE NEW WORK.
4	DISCONNECT AND REMOVE EXISTING CONTROL DAMPER AND ALL ASSOCIATED ACCESSORIES.
5	DISCONNECT AND REMOVE EXISTING CHILLED WATER PIPING BACK TO POINT INDICATED. PROTECT PIPE OPENINGS FROM DIRT, DUST, AND DEBRIS IN PREPARATION FOR NEW PIPING CONNECTION; SEE NEW WORK .
6	PRIOR TO PERFORMING ANY DEMOLITION WORK, CONTRACTOR SHALL MEASURE AND RECORD THE AIRFLOW RATE OF THE SUPPLY, RETURN, OUTSIDE AIR, AND DUCT STATIC PRESSURE OF THE EXISTING AIR HANDLING UNIT DURING MAXIMUM COOLING LOAD CONDITIONS. SUBMIT TYPED REPORT TO ENGINEER OF RECORD FOR REVIEW. NEW AIR HANDLING UNIT SUPPLY AIRFLOW RATE SHALL BE REBALANCED SUCH THAT SUPPLY AIR WILL NOT EXCEED THE EXISTING RECORDED PEAK SUPPLY AIRFLOW RATE. OUTSIDE AIRFLOW RATE SHALL BE REBALANCED TO SCHEDULED VALUES.

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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

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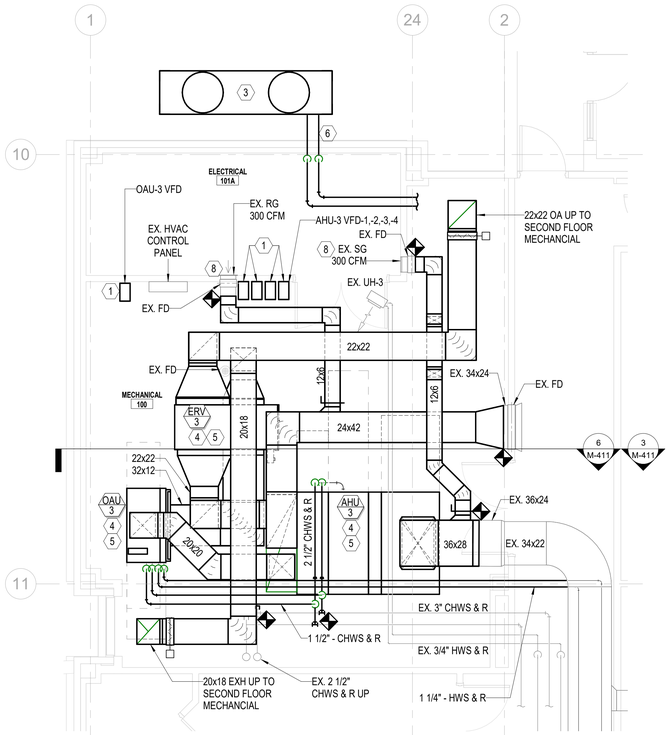
JASON ANTHONY MATIACIO LICENSED PROFESSIONAL ENGINEER 30457 STATE OF MISSISSIPPI
2/7/2024
Jason A. Matiacio 30457

REVISION	DATE		DRAWN	APPROVED

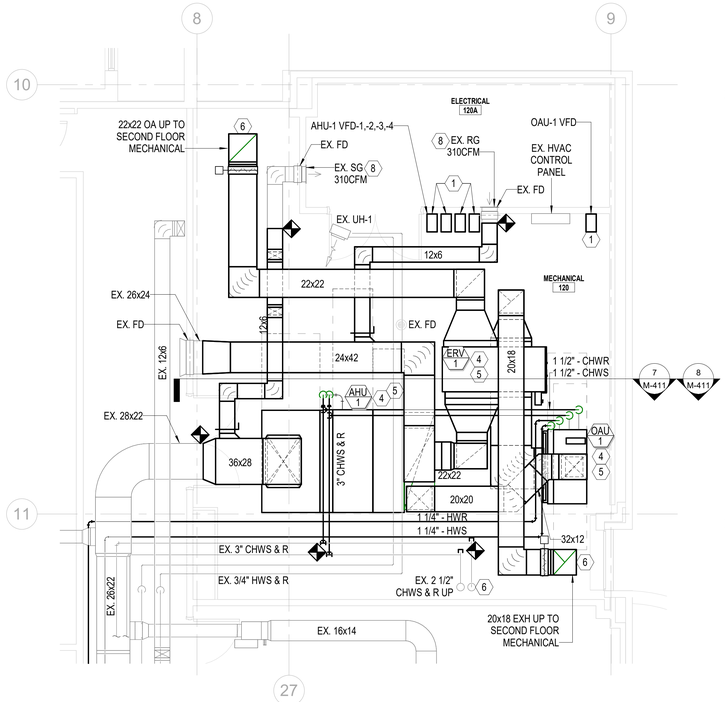
UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE, BILOXI, MISSISSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR STENNIS HALL

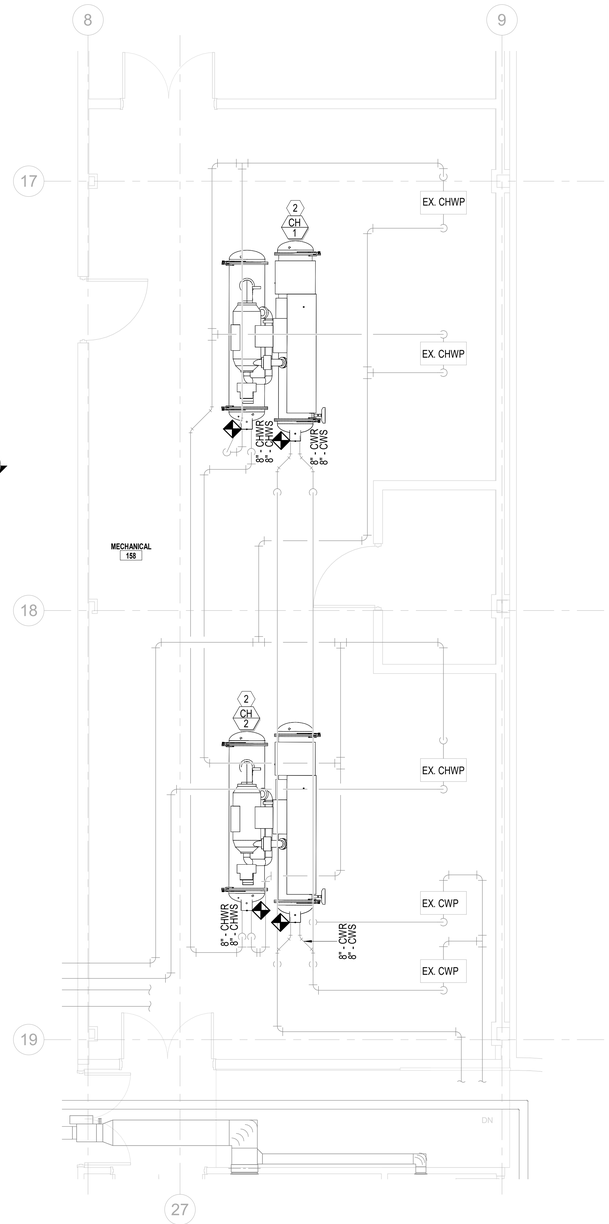
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: IDL	PROJECT NUMBER: MAHG 17-105	SHEET NAME: ENGLARGED 2ND FLOOR PLAN - DEMOLITION	DRAWING NUMBER: M-402
CHECKED: JAM	DATE: 02/05/24	SHEET 38 OF 74



1 ENLARGED 1ST FLOOR NORTH WEST MECHANICAL - HVAC
1/4" = 1'-0"



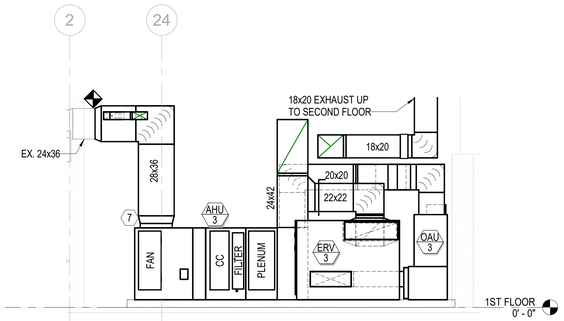
2 ENLARGED 1ST FLOOR NORTH EAST MECHANICAL - HVAC
1/4" = 1'-0"



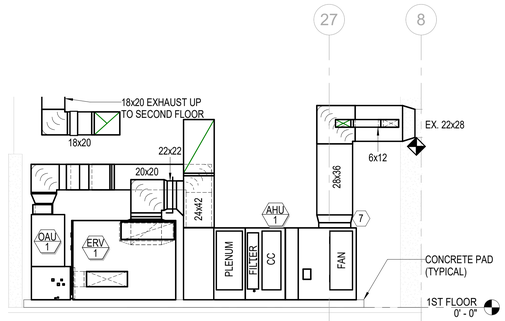
4 ENLARGED 1ST FLOOR EAST MECHANICAL - HVAC
1/4" = 1'-0"

SHEET NOTES

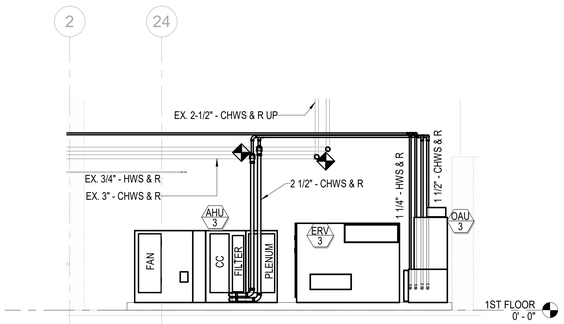
#	
1	PROVIDE WALL-MOUNTED VARIABLE FREQUENCY DRIVE ON UNISTRUT SUPPORTS AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2	PROVIDE WATER-COOLED CHILLER ON EXISTING HOUSEKEEPING PAD WITH VIBRATION ISOLATION EQUIPMENT AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CHILLER SHALL BE DISASSEMBLED INTO 3 OR 4 PIECES OUTSIDE OF THE STRUCTURE AND REASSEMBLED INSIDE MECHANICAL ROOM; SEE PHASING NOTES (M-001) & SCHEDULE NOTES (M-601).
3	INSTALL COMPUTER ROOM AIR CONDITIONING EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE INSULATED REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNIT.
4	PROVIDE HVAC EQUIPMENT ON HOUSEKEEPING PAD WITH VIBRATION ISOLATION EQUIPMENT AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5	TRAP AND ROUTE SLOPED, INSULATED, COPPER CONDENSATE PIPING FULL SIZE OF AIR HANDLING UNIT OUTLET TO FLOOR DRAIN.
6	PROVIDE SECURITY BOUNDARY PENETRATION MEASURES IN ACCORDANCE WITH ICD/ICS 705; SEE DETAILS.
7	PROVIDE FULL-SIZE, INSULATED INLET AND OUTLET DUCTS AND FLEXIBLE CONNECTION AT AHU. PROVIDE SMOOTH TRANSITION TO SIZE SHOWN.
8	BALANCE EXISTING GRILLE/REGISTER TO SPECIFIED AIRFLOW (CFM).



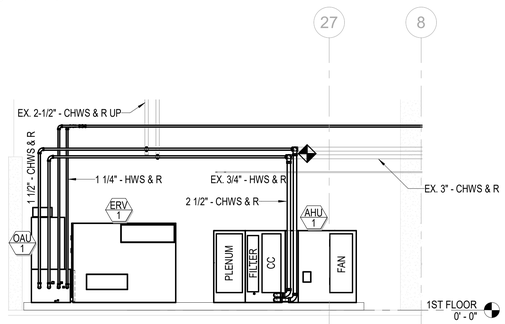
3 AHU-3 SECTION - DUCTWORK
1/4" = 1'-0"



7 AHU-1 SECTION - DUCTWORK
1/4" = 1'-0"



6 AHU-3 SECTION - PIPING
1/4" = 1'-0"



8 AHU-1 SECTION - PIPING
1/4" = 1'-0"

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2/19/2024
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Dell Consulting project:22-083

REVISION	DATE	DRAWN	APPROVED

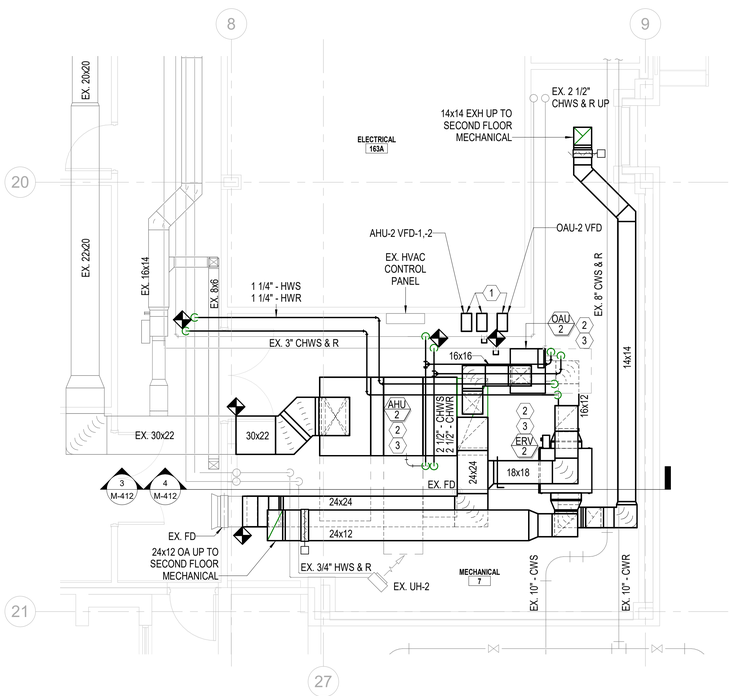
UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

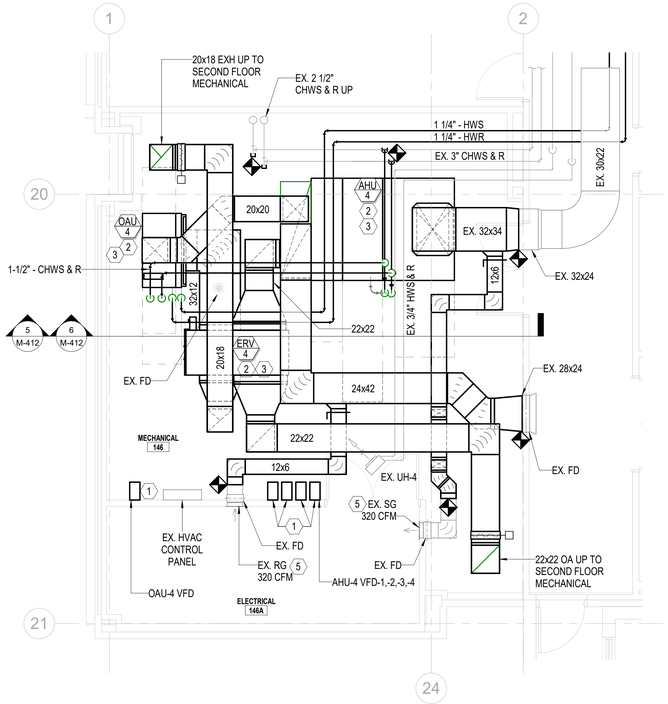
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: KIL	PROJECT NUMBER: MAHG 171095	SHEET NAME: ENLARGED PLANS AND SECTIONS - HVAC	DRAWING NUMBER: M-411
CHECKED: JAM	DATE: 02/2024		SHEET 37 OF 74

SHEET NOTES

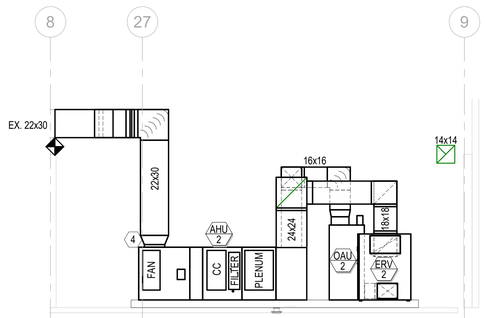
#	
1	PROVIDE WALL-MOUNTED VARIABLE FREQUENCY DRIVE ON UNISTRUT SUPPORTS AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2	PROVIDE HVAC EQUIPMENT ON HOUSEKEEPING PAD WITH VIBRATION ISOLATION EQUIPMENT AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3	TRAP AND ROUTE SLOPED, INSULATED, COPPER CONDENSATE PIPING FULL SIZE OF AIR HANDLING UNIT OUTLET TO FLOOR DRAIN.
4	PROVIDE FULL-SIZE, INSULATED INLET AND OUTLET DUCTS AND FLEXIBLE CONNECTION AT AHU. PROVIDE SMOOTH TRANSITION TO SIZE SHOWN.
5	BALANCE EXISTING GRILLE/REGISTER TO SPECIFIED AIRFLOW (CFM).



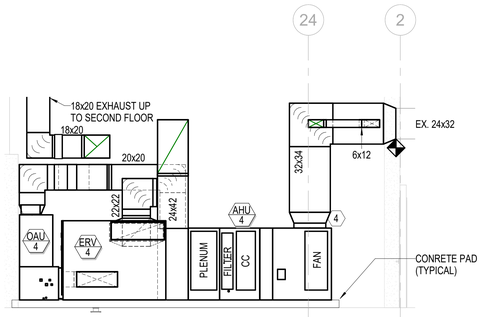
1 ENLARGED 1ST FLOOR SOUTH EAST MECHANICAL - HVAC
1/4" = 1'-0"



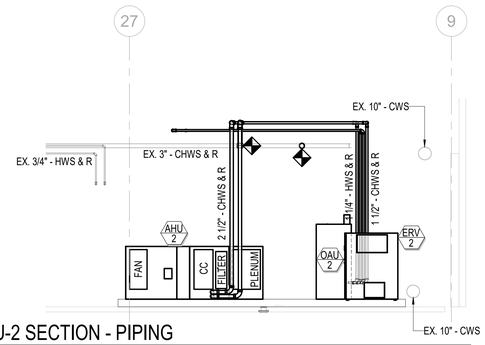
2 ENLARGED 1ST FLOOR SOUTH WEST MECHANICAL - HVAC
1/4" = 1'-0"



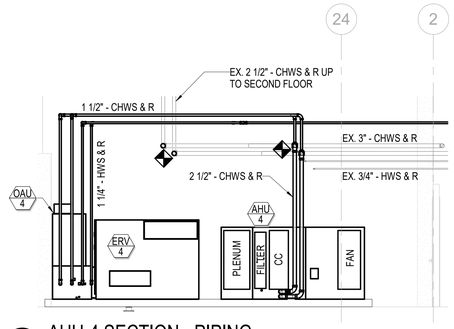
3 AHU-2 SECTION - DUCTWORK
1/4" = 1'-0"



5 AHU-4 SECTION - DUCTWORK
1/4" = 1'-0"



4 AHU-2 SECTION - PIPING
1/4" = 1'-0"



6 AHU-4 SECTION - PIPING
1/4" = 1'-0"

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STAMP

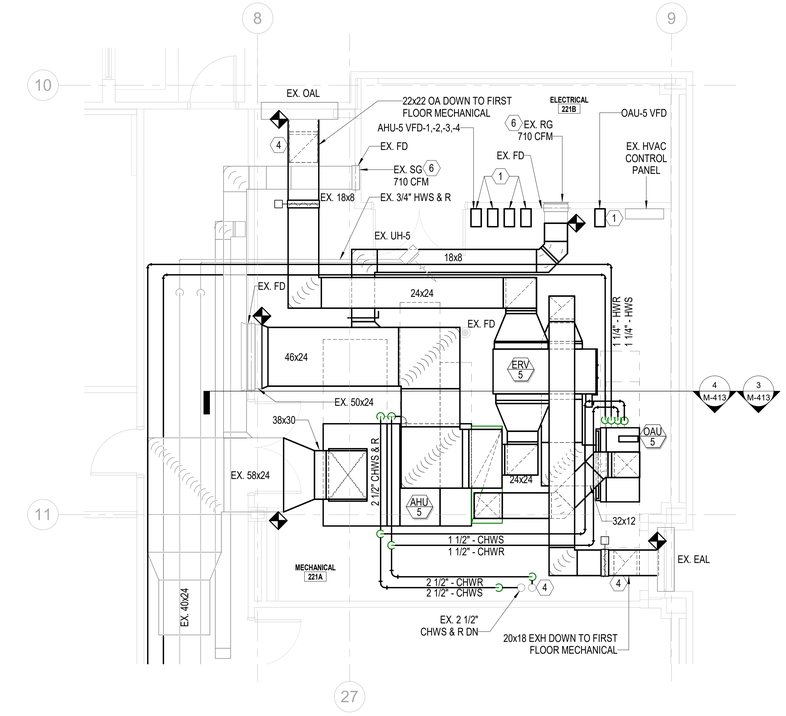
JASON ANTHONY MATIACIO LICENSED PROFESSIONAL ENGINEER 30457 STATE OF MISSISSIPPI
2/7/2024
Jason A. Matiacio 30457

REVISION	DATE	DRAWN	APPROVED

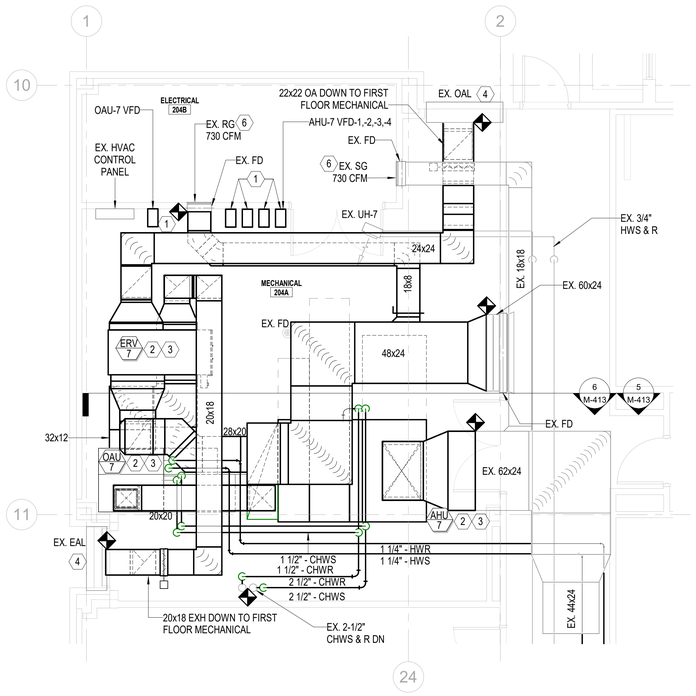
UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Chief of Engineering) G. REED
FACILITY NUMBER: B1002
DRAWN: IGL
PROJECT NUMBER: MAHG 17-1095
SHEET NAME: ENLARGED PLANS AND SECTIONS - HVAC
DRAWING NUMBER: M-412
CHECKED: JAM
DATE: 02/20/24
SHEET 38 OF 74



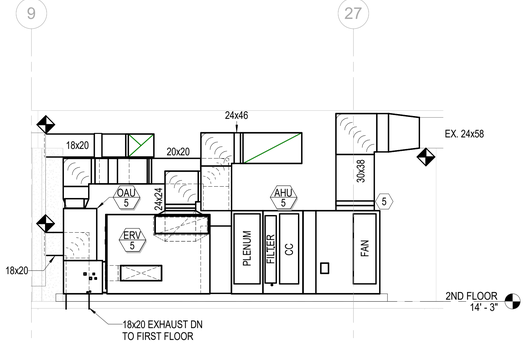
1 ENLARGED 2ND FLOOR NORTH EAST MECHANICAL - HVAC
1/4" = 1'-0"



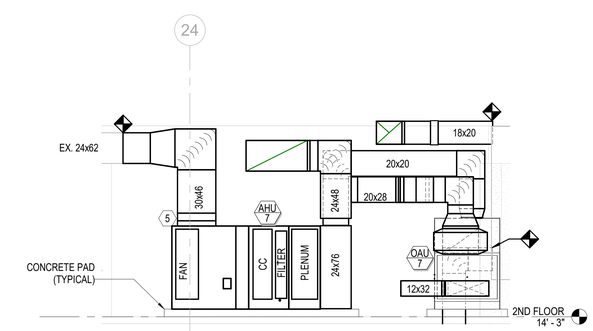
2 ENLARGED 2ND FLOOR NORTH WEST MECHANICAL - HVAC
1/4" = 1'-0"

SHEET NOTES

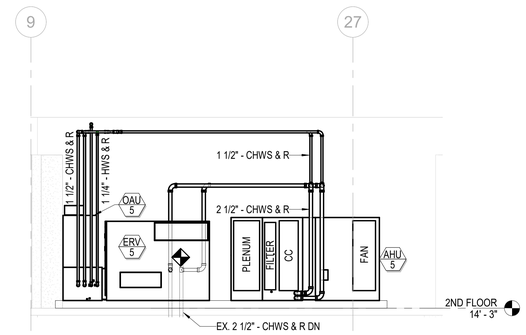
#	
1	PROVIDE WALL-MOUNTED VARIABLE FREQUENCY DRIVE ON UNISTRUT SUPPORTS AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2	PROVIDE HVAC EQUIPMENT ON HOUSEKEEPING PAD WITH VIBRATION ISOLATION EQUIPMENT AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3	TRAP AND ROUTE SLOPED, INSULATED, COPPER CONDENSATE PIPING FULL SIZE OF AIR HANDLING UNIT OUTLET TO FLOOR DRAIN.
4	PROVIDE SECURITY BOUNDARY PENETRATION MEASURES IN ACCORDANCE WITH ICD/ICS 705; SEE DETAILS.
5	PROVIDE FULL-SIZE, INSULATED INLET AND OUTLET DUCTS AND FLEXIBLE CONNECTION AT AHU. PROVIDE SMOOTH TRANSITION TO SIZE SHOWN.
6	BALANCE EXISTING GRILLE/REGISTER TO SPECIFIED AIRFLOW (CFM).



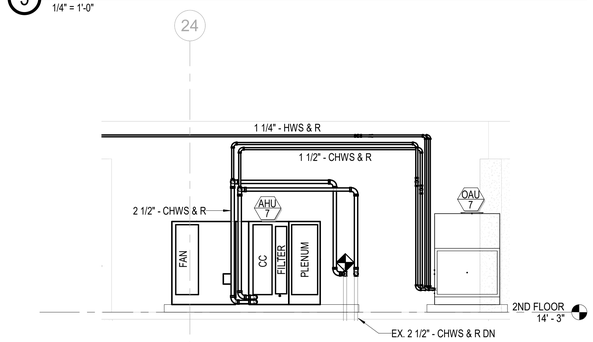
3 AHU-5 SECTION - DUCTWORK
1/4" = 1'-0"



5 AHU-7 SECTION - DUCTWORK
1/4" = 1'-0"



4 AHU-5 SECTION - PIPING
1/4" = 1'-0"



6 AHU-7 SECTION - PIPING
1/4" = 1'-0"

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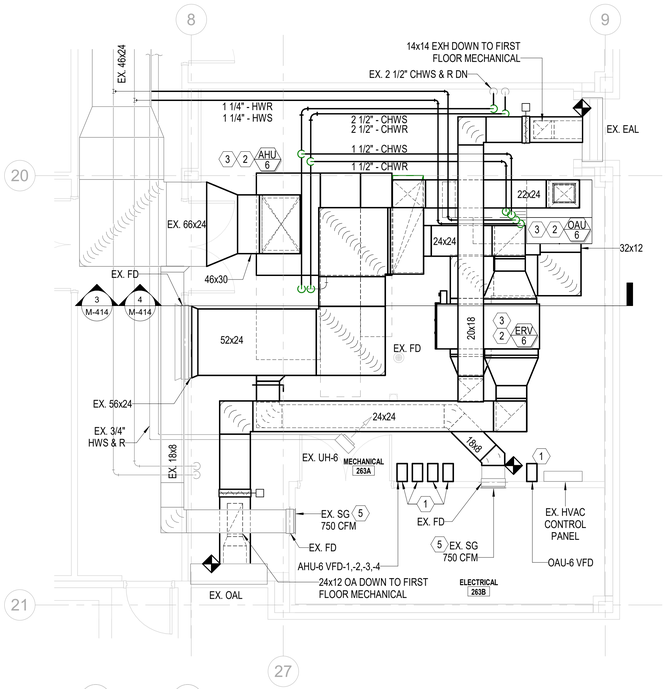
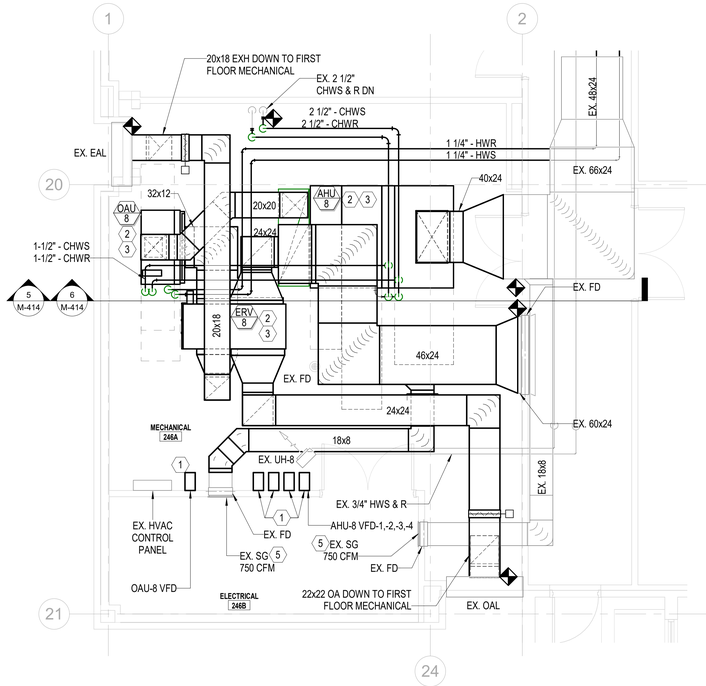
REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEER — MISSISSIPPI

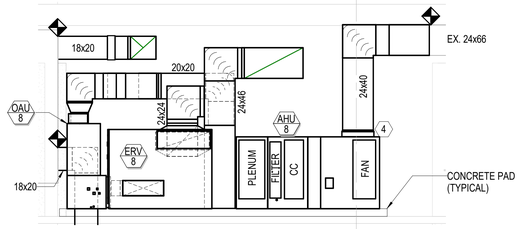
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Chief of Engineering) G. REED
DRAWN: JAM
PROJECT NUMBER: MAHG 17-1095
CHECKED: JAM
DATE: 02/2024
SHEET NAME: ENLARGED PLANS AND SECTIONS - HVAC
FACILITY NUMBER: B1002
DRAWING NUMBER: M-413
SHEET 39 OF 74

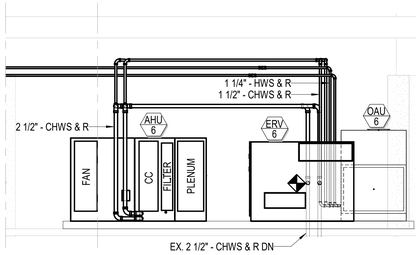




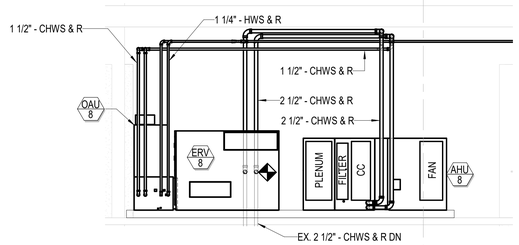
3 AHU-6 SECTION - DUCTWORK
1/4" = 1'-0"



5 AHU-8 SECTION - DUCTWORK
1/4" = 1'-0"



4 AHU-6 SECTION - PIPING
1/4" = 1'-0"



6 AHU-8 SECTION - PIPING
1/4" = 1'-0"

SHEET NOTES

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2	PROVIDE HVAC EQUIPMENT ON HOUSEKEEPING PAD WITH VIBRATION ISOLATION EQUIPMENT AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
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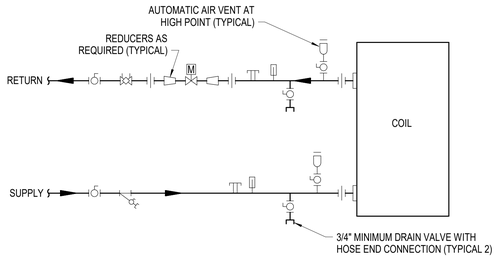
Jason A. Matiacio 30457

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

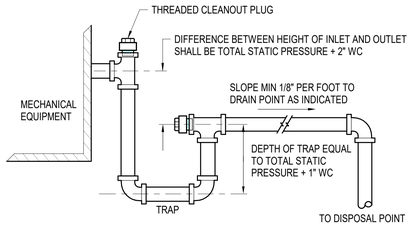
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Controcts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: IDL	PROJECT NUMBER: MAHG 17-105	DRAWING NUMBER: M-414
CHECKED: JAM	DATE: 02/2024	SHEET NAME: ENLARGED PLANS AND SECTIONS - HVAC
		SHEET 40 OF 74



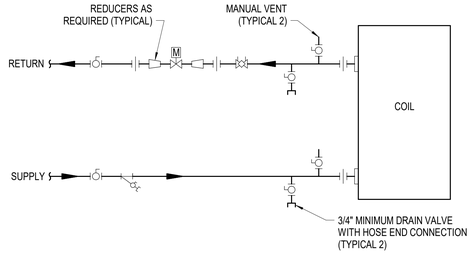
NOTE: INSTALL PIPING AND VALVES IN A MANNER AS TO NOT INTERFERE WITH COIL PULL AND UNIT ACCESS. COORDINATE TO MOUNT VALVE STATION WITHIN 6' ABOVE FINISHED FLOOR.

1 AHU COIL PIPING DETAIL
NOT TO SCALE

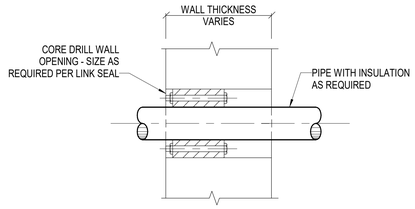


NOTES:
1. CONTRACTOR SHALL COORDINATE DRAIN DIMENSIONS AND PAD AND/OR BASE RAIL HEIGHT TO ENSURE PROPER DRAINAGE SLOPE AND CLEARANCE FOR TRAP.
2. REFER TO SPECIFICATIONS FOR DRAIN PIPE MATERIAL.

2 CONDENSATE DRAIN TRAP DETAIL
NOT TO SCALE

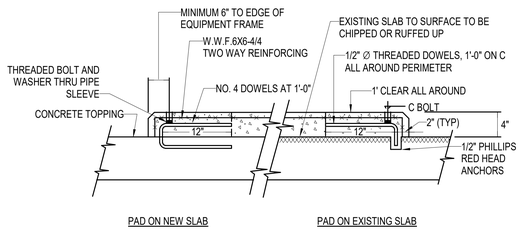


3 HW HEATING COIL PIPING DETAIL (TWO-WAY)
NOT TO SCALE



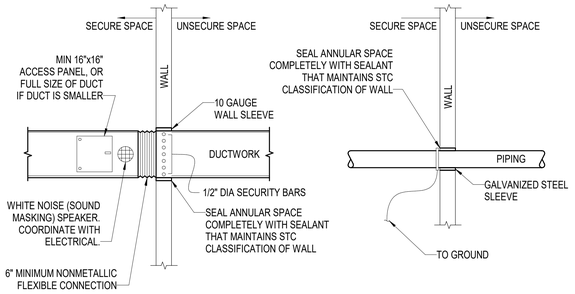
NOTE: LINK-SEAL PIPE THROUGH WALL ASSEMBLY PENETRATION AS MANUFACTURED BY THUNDERLINE CORPORATION OF BELLVILLE, MI.

4 CORE-DRILL PIPE PENETRATION DETAIL
NOT TO SCALE



NOTES:
1. COORDINATE FINAL PAD DIMENSIONS AND ANCHOR BOLT LOCATIONS WITH EQUIPMENT.

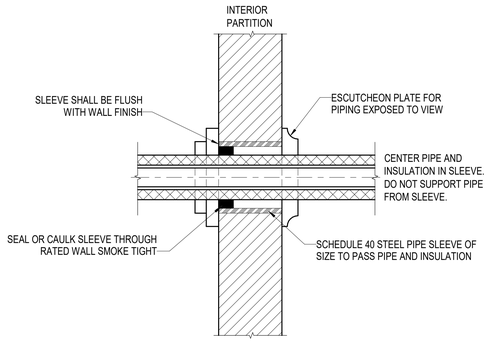
5 HOUSEKEEPING PAD DETAIL
NOT TO SCALE



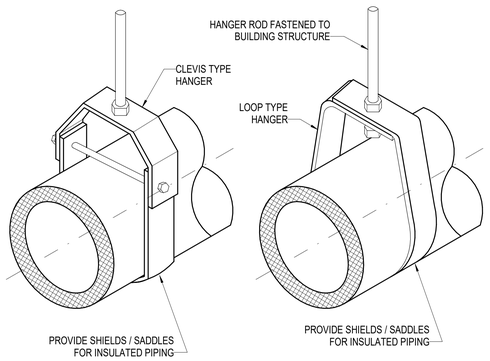
DUCT PENETRATION

PIPE PENETRATION
NOTE: PIPING PENETRATING SCIF BOUNDARY SHALL BE GROUNDED.

6 SECURITY BOUNDARY PENETRATION DETAIL
NOT TO SCALE

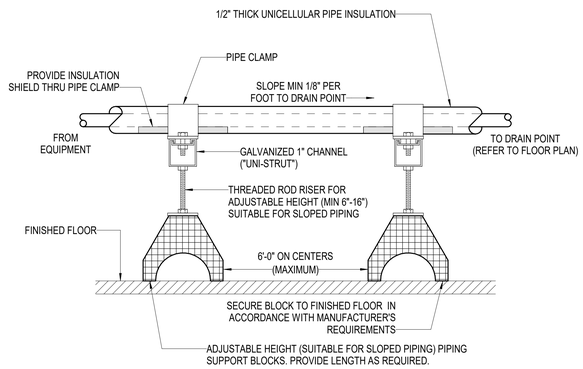


7 INTERIOR PARTITION PIPE SLEEVE DETAIL
NOT TO SCALE

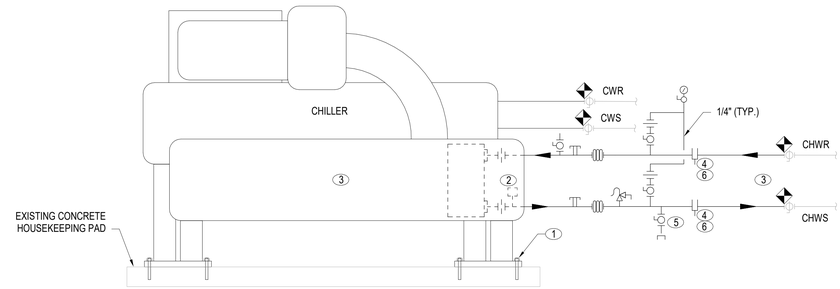


NOTE: PIPE HANGERS SHALL BE LOCATED IN ACCORDANCE WITH TABLE 3 OF MSS SP-69, AND AT ALL CHANGES IN DIRECTION.

8 PIPE HANGER DETAIL
NOT TO SCALE



9 ROOFTOP PIPE SUPPORT DETAIL
NOT TO SCALE



NOTES:

1. PROVIDE VIBRATION ISOLATION AND ANCHOR BOLTS - SIZE AND QUANTITY AS RECOMMENDED BY CHILLER MANUFACTURER. DRILL INTO CONCRETE PAD AND FINISH WITH EPOXY.
2. INSTALL PROOF-OF-FLOW FLOW SWITCH PROVIDED BY CHILLER MANUFACTURER IN ACCORDANCE WITH CHILLER INSTALLATION INSTRUCTIONS. FLOW SWITCH SHALL BE INSTALLED IN THREAD-O-LET AND SHALL BE WIRED TO CHILLER CONTROL PANEL.
3. ALL CHILLED WATER PIPING AND ALL LOW-TEMPERATURE SURFACES TO BE INSULATED REFER TO SPECIFICATIONS.
4. STAINLESS STEEL WELL WITH EXTENDED NECK FOR ELECTRONIC TEMPERATURE CONTROL SYSTEM. INSTALL IN THREAD-O-LET. COORDINATE WITH CONTROLS CONTRACTOR.
5. 3/4" DRAIN / BLOW-DOWN VALVE WITH HOSE END CONNECTION. PROVIDE POLISHED CHROME PLATED BRASS CAP WITH CHAIN.
6. COORDINATE FINAL LOCATION WITH FACILITY PERSONNEL AND CONTROLS CONTRACTOR.

10 WATER-COOLED CHILLER PIPING DETAIL
NOT TO SCALE

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UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — MISSISSIPPI
OFFICE OF CIVIL ENGINEERS

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Controcts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: IGL / PROJECT NUMBER: MAHG 17-105	SHEET NAME: DETAILS	DRAWING NUMBER: M-501
CHECKED: JAM / DATE: 02/2024		SHEET 41 OF 74

WATER-COOLED CHILLER SCHEDULE

MARK	CAPACITY (TONS)	FULL LOAD EFFICIENCY (KW/TON)	NPLV (KW/TON)	REFRIGERANT TYPE	EVAPORATOR DATA					CONDENSER DATA					COMPRESSOR DATA		ELECTRICAL DATA				PHYSICAL DATA	
					WATER FLOW (GPM)	PASSES	EWT (°F)	LWT (°F)	WPD (FT)	WATER FLOW (GPM)	PASSES	EWT (°F)	LWT (°F)	WPD (FT)	QTY / TYPE	CAPACITY REDUCTION	(V/PH/HZ)	MCA	MOCP	STARTER TYPE (UNIT-MOUNTED)	TOTAL WEIGHT (LB)	REFRIGERANT CHARGE (LB)
CH-1	340	0.5661	0.3453	R-513A	580	2	58	44	15.1	956	2	87	97	10.1	MAG-BEARING CENTRIFUGAL	TO 20%	480/3/60	328	500	VFD	15,700	800
CH-2	340	0.5661	0.3453	R-513A	580	2	58	44	15.1	956	2	87	97	10.1	MAG-BEARING CENTRIFUGAL	TO 20%	480/3/60	328	500	VFD	15,700	800

NOTES:
1. FIELD INSULATE ALL LOW TEMPERATURE SURFACES.
2. PROVIDE FACTORY MOUNTED AND WIRED VFD.
3. PROVIDE SINGLE POINT POWER CONNECTION.
3. PROVIDE BACNET COMMUNICATION.
4. PROVIDE HINGED WATER BOX FOR EVAPORATOR AND CONDENSER BARRELS.
5. PROVIDE THERMAL DISPERSION FLOW SWITCHES.
6. PROVIDE CONDENSER TUBES WITH 0.028" WALL THICKNESS.
7. PROVIDE FULL 10 YEAR PARTS, LOBOR, REFRIGERANT, AND VFD WARRANTY.
8. ONLY ACCEPTABLE MANUFACTURER SHALL BE TRANE.
9. PROVIDE KNOCKDOWN UNITS TO BE REASSEMBLED WITHIN MECHANICAL SPACES. THE REASSEMBLY OF DISASSEMBLED OR KNOCKDOWN EQUIPMENT SHALL BE SUPERVISED OR PERFORMED BY FACTORY TECHNICIAN(S). THE MANUFACTURER SHALL PROVIDE A FULL WARRANTY THAT CORRESPONDS TO FULLY ASSEMBLED EQUIPMENT.
10. WALL MOUNTED DISCONNECT PROVIDED BY DIVISION 26.
11.REPLACE THE TWO EXISTING 10" WATER TOWER ISOLATION VALVES.
12.CONTRACTOR IS REPONSIBLE TO PROVIDE THE WATER TOWER CHEMICAL TREATMENT SYSTEM.
13.CONTRACTOR IS RESPONSIBLE TO PROVIDE CHILLED WATER CHEMICAL POT FEEDER SYSTEM FOR CORROSION INHIBITORS

CHILLED WATER COMPUTER ROOM AIR CONDITIONING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	FAN DATA				COOLING COIL DATA (CHW)										ELECTRICAL				HUMIDIFIER SECTION		FILTER SECTION		PHYSICAL DATA			
				AIR FLOW (CFM)	ESP (IN. WC)	FAN MOTOR		TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	EAT DB/WB (°F)	LAT DB/WB (°F)	CHW FLOW (GPM)	EWT (°F)	LWT (°F)	MAX WPD (FT WG)	CONTROL VALVE		PIPE RUNOUT (IN.)	V/PH/HZ	FLA	MCA	MOCP	HUMIDIFIER TYPE	CAPACITY (LBS/HR)	TYPE	EFF	DIMENSIONS			WEIGHT (LBS)
						QTY	HP (EA)									TYPE	WPD (PSI)									LENGTH (IN)	DEPTH (IN)	HEIGHT (IN)	
CRAC-1	LIEBERT	CW146	DOWNFLOW TOP RETURN	21,000	0.2	3	3.7	525,500	481,100	77/63	55/54	70	44	58	10	2-WAY	5	3	480/3/60	23.9	29.9	30	INFRARED	22.1	2" PLEATED	MERV 8	136	54	85	3200
CRAC-2	LIEBERT	PW029	DOWNFLOW TOP RETURN	4,800	0.2	1	4.2	95,800	90,500	75/61	57/56	14	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	950
CRAC-3	LIEBERT	PW029	DOWNFLOW TOP RETURN	4,800	0.2	1	4.2	95,800	90,500	75/61	57/56	14	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	950
CRAC-4	LIEBERT	PW029	DOWNFLOW TOP RETURN	4,800	0.2	1	4.2	95,800	90,500	75/61	57/56	14	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	950
CRAC-5	LIEBERT	PW029	DOWNFLOW TOP RETURN	4,800	0.2	1	4.2	95,800	90,500	75/61	57/56	14	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	950
CRAC-6	LIEBERT	PW029	DOWNFLOW TOP RETURN	4,800	0.2	1	4.2	95,800	90,500	75/61	57/56	14	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	950
CRAC-7	LIEBERT	PW017	UPFLOW SIDE RETURN	3,500	0.2	1	4.2	55,300	54,300	75/61	60/59	8	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	900
CRAC-8	LIEBERT	PW017	UPFLOW SIDE RETURN	3,500	0.2	1	4.2	55,300	54,300	75/61	60/59	8	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	900
CRAC-9	LIEBERT	PW017	UPFLOW SIDE RETURN	3,500	0.2	1	4.2	55,300	54,300	75/61	60/59	8	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	900
CRAC-10	LIEBERT	PW017	UPFLOW SIDE RETURN	3,500	0.2	1	4.2	55,300	54,300	75/61	60/59	8	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	900
CRAC-11	LIEBERT	PW029	DOWNFLOW TOP RETURN	4,800	0.2	1	4.2	95,800	90,500	75/61	57/56	14	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	950
CRAC-12	LIEBERT	PW017	DOWNFLOW TOP RETURN	3,500	0.2	1	4.2	55,300	54,300	75/61	60/59	8	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	900
CRAC-13	LIEBERT	PW017	DOWNFLOW TOP RETURN	3,500	0.2	1	4.2	55,300	54,300	75/61	60/59	8	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	900
CRAC-14	LIEBERT	PW029	DOWNFLOW TOP RETURN	4,800	0.2	1	4.2	95,800	90,500	75/61	57/56	14	44	58	10	2-WAY	5	3/4	480/3/60	11.0	13.8	15	INFRARED	7.7	2" PLEATED	MERV 8	45	60	86	950

NOTES:
1. PROVIDE SINGLE POINT POWER CONNECTION.
2. PROVIDE INTEGRAL DISCONNECT SWITCH.
3. PROVIDE INTEGRAL CONDENSATE PUMP WITH EMERGENCY SHUT OFF FLOAT SWITCH.
4. PROVIDE SMOKE DETECTORS, FACTORY MOUNTED INTEGRAL TO THE UNIT.
5. PROVIDE BAS COMMUNICATION LINK; COORDINATE WITH CONTROLS SYSTEM PROVIDER.
6. PROVIDE VARIABLE SPEED BLOWERS AND ASSOCIATED CONTROLS.
7. PROVIDE SIDE INTAKE LOUVER KIT (NON-STANDARD OPTION) FOR UPFLOW CRAC UNITS -7, -8, -9, & -10.

SPLIT-SYSTEM DX COMPUTER ROOM AIR CONDITIONING UNIT SCHEDULE (OUTDOOR)

MARK	LOCATION	DESIGN CONDITIONS			DX COOLING CYCLE		ELECTRICAL			BASIS OF DESIGN	
		WINTER OUTDOOR (°F)	SUMMER OUTDOOR		TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	V/PH/HZ	FLA	MOCP	MANUFACTURER	MODEL
			DB (°F)	WB (°F)							
CU-1.1	GROUND	29	95	78	139,000	136,000	480/3/60	2.8	15	LIEBERT	MCS056

NOTES:
1. COOLING AND HEATING CAPACITIES RATED AT AHRI STANDARD CONDITIONS.
2. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
3. SUBMIT APPROXIMATE REFRIGERANT LINE LENGTHS (TOTAL AND VERTICAL) AND SIZES FOR REVIEW WITH PRODUCT DATA.
4. PROVIDE SEACOAST PROTECTION COATING FOR ALL COILS.
5. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
6. DISCONNECT PROVIDED BY ELECTRICAL.

SPLIT-SYSTEM DX COMPUTER ROOM AIR CONDITIONING UNIT SCHEDULE (INDOOR)

MARK	ASSOCIATED OUTDOOR UNIT	TYPE	DESIGN CONDITIONS			FAN DATA			DX COOLING CYCLE				ELECTRICAL			FILTER DATA		DIMENSIONS			WEIGHT	BASIS OF DESIGN	
			WINTER INDOOR (°F)	SUMMER INDOOR		SUPPLY AIRFLOW (CFM)	ESP (IN. WG)	FAN MOTOR (HP)	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	COIL EAT		V/PH/HZ	FLA	MOCP	TYPE	EFFICIENCY	LENGTH (INCH)	WIDTH (INCH)	HEIGHT (INCH)	LBS	MANUFACTURER	MODEL
				DB (°F)	WB (°F)						DB (°F)	WB (°F)											
CRAC-1.1	CU-1.1	DOWNFLOW TOP RETURN	70	75	63	6200	0.5	3.75	139,000	136,000	80	63	480/3/60	37.7	50	2" PLEATED	MERV 8	90	42	82	1470	LIEBERT	DS042

NOTES:
1. COOLING AND HEATING CAPACITIES RATED AT AHRI STANDARD CONDITIONS.
2. REFRIGERANT PIPING SIZING PER MANUFACTURER'S RECOMMENDATIONS. SUBMIT APPROXIMATE REFRIGERANT LINE LENGTHS (TOTAL AND VERTICAL) AND SIZES FOR REVIEW WITH PRODUCT DATA.
3. COORDINATE INSTALLATION WITH MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.
4. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
5. PROVIDE INTEGRAL DISCONNECT SWITCH.

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STAMP
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LICENSED PROFESSIONAL ENGINEER
2/7/2024
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REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Chief of Engineering) G. REED
FACILITY NUMBER: B1002
DRAWN: IGL
PROJECT NUMBER: MAHG 17-1095
SHEET NAME: SCHEDULES
DRAWING NUMBER: M-601
CHECKED: JAM
DATE: 02/20/24
SHEET 42 OF 74

AIR HANDLING UNIT SCHEDULE

MARK	MFR	MODEL	UNIT TYPE	LOCATION	TOTAL WEIGHT (LB)	SUPPLY FAN DATA												FILTER SECTION					PHYSICAL DIMENSIONS			BASE RAIL HEIGHT (IN.)
						FAN TYPE	FAN QTY	DRIVE TYPE	TOTAL AIR FLOW (CFM)	TSP (IN. WC)	ESP (IN. WC)	MAX BHP	DESIGN FAN RPM	FAN MOTOR					TYPE	EFF	SIZE (IN. x IN.)	QTY	DIRTY PD (IN. WC)	MAX LENGTH (IN.)	MAX WIDTH (IN.)	MAX HEIGHT (IN.)	
														HP (EA)	TOTAL HP	ELEC. (V/PH/HZ)	NOMINAL RPM	DRIVE									
AHU-1	TRANE	CSAA021	HORIZONTAL DRAW THRU	INDOOR	2,600	PLENUM	4	DIRECT	9,500	4.9	3.0	11.2	3688	3.0	12.0	480/3/60	3600	VFD	2" PLEATED	MERV 13	16 x 25	12	1.00	112	80	56	6
AHU-2	TRANE	CSAA010	HORIZONTAL DRAW THRU	INDOOR	1,500	PLENUM	2	DIRECT	5,100	4.8	2.8	6.3	3947	5.0	10.0	480/3/60	3600	VFD	2" PLEATED	MERV 13	20 x 25	4	1.00	107	62	41	6
AHU-3	TRANE	CSAA021	HORIZONTAL DRAW THRU	INDOOR	2,600	PLENUM	4	DIRECT	9,300	4.6	3.0	10.8	3648	3.0	12.0	480/3/60	3600	VFD	2" PLEATED	MERV 13	16 x 25	12	1.00	112	80	56	6
AHU-4	TRANE	CSAA021	HORIZONTAL DRAW THRU	INDOOR	2,700	PLENUM	4	DIRECT	10,000	4.9	3.0	11.6	3125	3.0	12.0	480/3/60	1800	VFD	2" PLEATED	MERV 13	16 x 25	12	1.00	112	80	56	6
AHU-5	TRANE	CSAA025	HORIZONTAL DRAW THRU	INDOOR	3,000	PLENUM	4	DIRECT	10,800	4.9	3.1	12.7	2947	5.0	20.0	480/3/60	1800	VFD	2" PLEATED	MERV 13	16 x 25	18	1.00	116	80	65	6
AHU-6	TRANE	CSAA025	HORIZONTAL DRAW THRU	INDOOR	2,900	PLENUM	4	DIRECT	12,400	4.9	3.2	15.4	3156	5.0	20.0	480/3/60	1800	VFD	2" PLEATED	MERV 13	16 x 25	18	1.00	106	80	65	6
AHU-7	TRANE	CSAA025	HORIZONTAL DRAW THRU	INDOOR	3,000	PLENUM	4	DIRECT	11,200	5.0	3.1	13.4	3002	5.0	20.0	480/3/60	1800	VFD	2" PLEATED	MERV 13	16 x 25	18	1.00	116	80	65	6
AHU-8	TRANE	CSAA021	HORIZONTAL DRAW THRU	INDOOR	2,700	PLENUM	4	DIRECT	10,100	4.3	2.4	9.5	2933	3.0	12.0	480/3/60	1800	VFD	2" PLEATED	MERV 13	16 x 25	12	1.00	112	80	56	6
OAU-1	TRANE	BCVE120	VERTICAL DRAW THRU	INDOOR	574	CENTRIFUGAL	1	DIRECT	2,700	3.2	2.0	2.4	1394	5.0	5.0	480/3/60	-	VFD	2" PLEATED	MERV 8	-	1.0	0.50	31	58	67	6
OAU-2	TRANE	BCVE060	VERTICAL DRAW THRU	INDOOR	362	CENTRIFUGAL	1	DIRECT	1,400	3.2	2.0	1.4	1488	1.5	1.5	480/3/60	-	VFD	2" PLEATED	MERV 8	-	1.0	0.50	27	35	59	6
OAU-3	TRANE	BCVE120	VERTICAL DRAW THRU	INDOOR	574	CENTRIFUGAL	1	DIRECT	2,710	3.2	2.0	2.4	1395	5.0	5.0	480/3/60	-	VFD	2" PLEATED	MERV 8	-	1.0	0.50	31	58	67	6
OAU-4	TRANE	BCVE120	VERTICAL DRAW THRU	INDOOR	574	CENTRIFUGAL	1	DIRECT	2,760	3.2	2.0	2.4	1401	5.0	5.0	480/3/60	-	VFD	2" PLEATED	MERV 8	-	1.0	0.50	31	58	67	6
OAU-5	TRANE	BCVE120	VERTICAL DRAW THRU	INDOOR	574	CENTRIFUGAL	1	DIRECT	2,520	3.1	2.0	2.4	1376	5.0	5.0	480/3/60	-	VFD	2" PLEATED	MERV 8	-	1.0	0.50	31	58	67	6
OAU-6	TRANE	UCCA	VERTICAL DRAW THRU	INDOOR	836	CENTRIFUGAL	1	DIRECT	3,240	3.4	2.0	3.3	1640	5.0	5.0	480/3/60	-	VFD	2" PLEATED	MERV 8	20 x 20 20 x 25	2 2	0.50	50	51	71	6
OAU-7	TRANE	UCCA	VERTICAL DRAW THRU	INDOOR	822	CENTRIFUGAL	1	DIRECT	2,910	3.3	2.0	2.7	1610	3.0	3.0	480/3/60	-	VFD	2" PLEATED	MERV 8	20 x 20 20 x 25	2 2	0.50	50	51	71	6
OAU-8	TRANE	BCVE120	VERTICAL DRAW THRU	INDOOR	572	CENTRIFUGAL	1	DIRECT	2,710	3.2	2.0	2.4	1395	3.0	3.0	480/3/60	-	VFD	2" PLEATED	MERV 8	-	1.0	0.50	31	58	67	6

NOTES:
1. PROVIDE 200,000 (L10) RATED BEARINGS ON SHAFTS AND MOTORS.
2. PROVIDE VFD WITH INTEGRAL DISCONNECT FLOW EACH FAN.
3. PROVIDE DOUBLE WALL CONSTRUCTION WITH GALVANIZED INTERIOR AND EXTERIOR PANELS, PAINTED EXTERIOR PANELS, AND MINIMUM R-13 FOAM-INJECTED INSULATION.
4. PROVIDE THERMAL BREAK CONSTRUCTION.
5. AHU-1,-2,-3,-4,-5,-6,-7,-8: PROVIDE SUPPLY AND RETURN SMOKE DAMPERS.
6. AHU-1,-2,-3,-4,-5,-6,-7,-8: PROVIDE ACCESS DOORS IN FAN SECTION, ACCESS SECTIONS, AND FILTER SECTIONS. MINIMUM 18" ACCESS DOOR BEFORE AND AFTER COIL.
7. AHU-1,-2,-3,-4,-5,-6,-7,-8: PROVIDE MARINE LIGHTS IN COIL AND FAN ACCESS SECTIONS; ACCESS DOORS SHALL INCLUDE VIEWING WINDOWS. 120V POWER CIRCUIT AND TOGGLE DISCONNECT PROVIDED BY DIVISION 26. PROVIDE PLASTIC ENGRAVED LABEL ABOVE TOGGLE DISCONNECT TO INDICATE "MARINE LIGHTS".
8. AHU-1,-2,-3,-4,-5,-6,-7,-8: PROVIDE NEEDLE POINT BI-POLAR IONIZATION AND INSTALL IN AIR HANDLING UNIT PER MANUFACTURER'S RECOMMENDATIONS. BASIS OF DESIGN IS GLOBAL PLASMA SOLUTIONS iMOD. 120V POWER CIRCUIT AND TOGGLE DISCONNECT PROVIDED BY DIVISION 26. PROVIDE PLASTIC ENGRAVED LABEL ABOVE TOGGLE DISCONNECT TO INDICATE "IONIZER".
9. AHU-1,-2,-3,-4,-5,-6,-7,-8: PROVIDE UVC LIGHTS DOWNSTREAM OF COOLING COIL WITH 18,000 HR MINIMUM LIFE CYCLE SIMILAR TO FRESH AIR TUVCL-260-TF. PROVIDE DOOR INTERLOCK SWITCH. 120V POWER CIRCUIT AND TOGGLE DISCONNECT PROVIDED BY DIVISION 26. PROVIDE PLASTIC ENGRAVED LABEL ABOVE TOGGLE DISCONNECT TO INDICATE "UVC LIGHTS".
10. AHU-1,-2,-3,-4,-5,-6,-7,-8: PROVIDE 120V CONVENIENCE OUTLET. 120V POWER CIRCUIT PROVIDED BY DIVISION 26.
11. PHYSICAL DIMENSIONS LISTED DO NOT INCLUDE THE CONTINUOUS BASE RAIL.
12. AHU-5,-6,-7,-8, & OAU-6,-7: PROVIDE KNOCKEDDOWN UNITS TO BE REASSEMBLED WITHIN MECHANICAL SPACES. THE REASSEMBLY OF DISASSEMBLED OR KNOCKEDDOWN EQUIPMENT SHALL BE SUPERVISED OR PERFORMED BY FACTORY TECHNICIAN(S). THE MANUFACTURER SHALL PROVIDE A FULL WARRANTY THAT CORRESPONDS TO FULLY ASSEMBLED EQUIPMENT.

OAU HEATING COIL SCHEDULE

MARK	LOCATION	MANUFACTURER	TYPE	DUTY	TOTAL CAPACITY (MBH)	AIR SIDE							WATER SIDE					
						WINTER OUTSIDE DB (°F)	DESIGN OA (CFM)	DESIGN HEATING (CFM)	EAT (°F)	LAT (°F)	MAX FACE VELOCITY (FPM)	MAX. APD (IN. WC)	FLOW (GPM)	EWT (°F)	LWT (°F)	MAX. WPD (FT. W.C.)	CONTROL VALVE		
																	TYPE	SIZE (IN)	WPD (PSI)
PHC-1	OAU-1	TRANE	HW	PREHEAT	73.0	30.0	2,700	2,700	30.0	55.0	600	0.08	7.3	180	160	7.0	2-WAY	3/4	5
PHC-2	OAU-2	TRANE	HW	PREHEAT	40.0	30.0	1,400	1,400	30.0	55.0	600	0.08	4.0	180	160	7.0	2-WAY	3/4	5
PHC-3	OAU-3	TRANE	HW	PREHEAT	73.0	30.0	2,710	2,710	30.0	55.0	600	0.08	7.3	180	160	7.0	2-WAY	3/4	5
PHC-4	OAU-4	TRANE	HW	PREHEAT	75.0	30.0	2,760	2,760	30.0	55.0	600	0.08	7.5	180	160	7.0	2-WAY	3/4	5
PHC-5	OAU-5	TRANE	HW	PREHEAT	68.0	30.0	2,520	2,520	30.0	55.0	600	0.08	6.8	180	160	7.0	2-WAY	3/4	5
PHC-6	OAU-6	TRANE	HW	PREHEAT	88.0	30.0	3,240	3,240	30.0	55.0	600	0.12	8.8	180	160	3.0	2-WAY	3/4	5
PHC-7	OAU-7	TRANE	HW	PREHEAT	79.0	30.0	2,910	2,910	30.0	55.0	600	0.12	7.9	180	160	3.0	2-WAY	3/4	5
PHC-8	OAU-8	TRANE	HW	PREHEAT	73.0	30.0	2,710	2,710	30.0	55.0	600	0.08	7.3	180	160	7.0	2-WAY	3/4	5

NOTES:
1. MAX FACE VELOCITY AND APD SHALL BE DETERMINED AT PEAK SUPPLY AIR FLOW.
2. TOTAL HEATING CAPACITY SHALL BE DETERMINED AT DESIGN HEATING AIR FLOW.
3. REFER TO DRAWINGS FOR PHYSICAL DIMENSIONS AND ACCESS REQUIREMENTS.

AHU COOLING COIL SCHEDULE

MARK	LOCATION	MANUFACTURER	TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	MIN ROWS	MAX FPI	AIR SIDE							WATER SIDE					
								SUMMER OUTSIDE DB/WB (°F)	DESIGN SA (CFM)	DESIGN OA (CFM)	EAT DB/WB (°F)	LAT DB/WB (°F)	MAX FACE VELOCITY (FPM)	MAX APD (IN. WG)	FLOW (GPM)	EWT (°F)	LWT (°F)	MAX WPD (FT WG)	CONTROL VALVE	
																			TYPE	WPD (PSI)
CC-3.1	AHU-1	TRANE	CHW	207.5	202.7	6	7	95 / 78	9,500	-	76 / 61	54 / 53	500	0.80	29.6	44	58	1.8	2-WAY	5
CC-2.1	AHU-2	TRANE	CHW	133.4	130.7	6	6	95 / 78	5,100	-	79 / 62	54 / 52	500	0.80	19.0	44	58	19.0	2-WAY	5
CC-3.1	AHU-3	TRANE	CHW	200.1	195.4	6	7	95 / 78	9,300	-	75 / 61	54 / 53	500	0.80	28.5	44	58	1.7	2-WAY	5
CC-4.1	AHU-4	TRANE	CHW	219.8	214.7	6	7	95 / 78	10,000	-	76 / 61	54 / 53	500	0.80	31.3	44	58	2.0	2-WAY	5
CC-5.1	AHU-5	TRANE	CHW	266.6	261.1	6	7	95 / 78	10,800	-	78 / 62	54 / 53	500	0.80	38.0	44	58	1.9	2-WAY	5
CC-6.1	AHU-6	TRANE	CHW	296.1	289.8	6	7	95 / 78	12,400	-	78 / 62	54 / 53	500	0.80	42.2	44	58	2.3	2-WAY	5
CC-7.1	AHU-7	TRANE	CHW	266.9	261.2	6	7	95 / 78	11,200	-	77 / 61	54 / 53	500	0.80	38.0	44	58	1.9	2-WAY	5
CC-8.1	AHU-8	TRANE	CHW	247.4	242.3	6	7	95 / 78	10,100	-	78 / 62	54 / 53	500	0.80	35.2	44	58	2.5	2-WAY	5
CC-1.2	OAU-1	TRANE	CHW	273.3	96.2	6	12	87 / 81	-	2,700	87 / 81	55 / 54	400	0.80	39.7	44	58	18	2-WAY	5
CC-2.2	OAU-2	TRANE	CHW	142.6	50.0	6	12	87 / 81	-	1,400	87 / 81	55 / 54	400	0.80	20.8	44	58	18	2-WAY	5
CC-3.2	OAU-3	TRANE	CHW	274.1	96.5	6	12	87 / 81	-	2,710	87 / 81	55 / 54	400	0.80	39.9	44	58	18	2-WAY	5
CC-4.2	OAU-4	TRANE	CHW	278.2	97.8	6	12	87 / 81	-	2,760	87 / 81	55 / 54	400	0.80	40.5	44	58	18	2-WAY	5
CC-5.2	OAU-5	TRANE	CHW	258.5	91.3	6	12	87 / 81	-	2,520	87 / 81	55 / 54	400	0.80	37.6	44	58	16	2-WAY	5
CC-6.2	OAU-6	TRANE	CHW	324.0	117.8	6	12	87 / 81	-	3,240	87 / 81	54 / 54	450	0.80	46.1	44	58	17	2-WAY	5
CC-7.2	OAU-7	TRANE	CHW	298.2	108.8	6	12	87 / 81	-	2,910	87 / 81	54 / 53	400	0.80	42.5	44	58	15	2-WAY	5
CC-8.2	OAU-8	TRANE	CHW	274.2	96.6	6	12	87 / 81	-	2,710	87 / 81	55 / 54	400	0.80	39.9	44	58	18	2-WAY	5

NOTES:
1. REFER TO CONDENSATE TRAP DETAIL FOR TRAP DEPTH.
2. PROVIDE ALL COILS WITH STAINLESS STEEL COIL CASINGS AND INTERMITTENT SUPPORTS.
3. PROVIDE INSULATED IAQ STAINLESS STEEL DRAIN PANS.
4. REFER TO DRAWINGS FOR PHYSICAL DIMENSIONS AND ACCESS REQUIREMENTS.

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	SEASON	SUPPLY AIR (OA)								EXHAUST AIR							HEAT TRANSFER PERFORMANCE			ELECTRICAL DATA				PHYSICAL DATA		BASIS OF DESIGN	
		AIRFLOW (CFM)	FAN		ESP (IN. WC)	EAT		LAT		DESIGN AIRFLOW (CFM)	*REDUCED AIRFLOW (CFM)	FAN		ESP (IN. WC)	EAT		TOTAL HEAT RECOVERED (BTUH)	TOTAL EFF (%)	SENSIBLE EFF (%)	V/PH/Hz	FLA	MCA	MOCP	FILTER		MAKE	MODEL
			BHP	HP		DB (°F)	WB (°F)	DB (°F)	WB (°F)			BHP	HP		DB (°F)	WB (°F)								TYPE	EFF		
ERV-1	SUMMER	2,800	2.10	3.00	1.5	93	78	81	71	2,300	1,010	1.70	3.00	1.5	75	62	160,700	60.7	78.2	480/3/60	4.24	10.5	15	2" PLEATED	MERV-8	RENEWAIRE	HE-4X
	WINTER					28	23	56	45						70	56	183,700	72.4	78.2					2" PLEATED	MERV-8		
ERV-2	SUMMER	1,500	0.89	1.50	1.5	93	78	81	71	1,200	540	0.77	1.50	1.5	75	63	83,300	59.6	77.5	480/3/60	2.4	5.9	15	2" PLEATED	MERV-8	RENEWAIRE	HE-2X
	WINTER					28	23	56	45						70	56	95,200	71.5	77.5					2" PLEATED	MERV-8		
ERV-3	SUMMER	2,800	2.07	3.00	1.5	93	78	81	71	2,300	1,010	1.70	3.00	1.5	75	63	161,300	60.8	78.3	480/3/60	4.24	10.5	15	2" PLEATED	MERV-8	RENEWAIRE	HE-4X
	WINTER					28	23	56	45						70	56	184,400	72.5	78.3					2" PLEATED	MERV-8		
ERV-4	SUMMER	2,900	2.13	3.00	1.5	93	78	81	71	2,340	1,040	1.74	3.00	1.5	75	63	164,300	60.4	78.1	480/3/60	4.24	10.5	15	2" PLEATED	MERV-8	RENEWAIRE	HE-4X
	WINTER					28	23	56	45						70	56	187,800	72.3	78.1					2" PLEATED	MERV-8		
ERV-5	SUMMER	2,600	1.84	3.00	1.5	93	78	81	71	2,140	1,130	1.51	3.00	1.5	75	63	150,000	62.5	79.3	480/3/60	4.24	10.5	15	2" PLEATED	MERV-8	RENEWAIRE	HE-4X
	WINTER					28	23	56	46						70	56	171,400	73.7	79.3					2" PLEATED	MERV-8		
ERV-6	SUMMER	3,300	2.72	5.00	1.5	93	78	81	71	2,750	1,450	2.24	3.00	1.5	75	63	192,900	56.4	75.7	480/3/60	10.94	13.9	15	2" PLEATED	MERV-8	RENEWAIRE	HE-4X
	WINTER					28	23	55	45						70	56	220,500	69.3	75.7					2" PLEATED	MERV-8		
ERV-7	SUMMER	3,000	2.31	3.00	1.5	93	78	81	71	2,470	1,300	1.90	3.00	1.5	75	63	173,200	59.1	77.3	480/3/60	4.24	10.5	15	2" PLEATED	MERV-8	RENEWAIRE	HE-4X
	WINTER					28	23	56	45						70	56	198,000	71.3	77.3					2" PLEATED	MERV-8		
ERV-8	SUMMER	2,800	2.07	3.00	1.5	93	78	81	71	2,300	1,210	1.70	3.00	1.5	75	63	161,300	60.8	78.3	480/3/60	4.24	10.5	15	2" PLEATED	MERV-8	RENEWAIRE	HE-4X
	WINTER					28	23	56	45						70	56	184,400	72.5	78.3					2" PLEATED	MERV-8		

NOTES:
1. PROVIDE DIRECT DRIVE FANS WITH INTEGRAL VFD ON EACH FAN.
2. PROVIDE INTEGRAL DISCONNECT SWITCH.
3. PROVIDE 24V CONTROL POWER TRANSFORMER.
4*. PROVIDE ENERGY RECOVERY VENTILATORS IN ACCORDANCE WITH DESIGN CONDITION PERFORMANCE DATA. UNITS SHALL BE CAPABLE OF OPERATING AT REDUCED EXHAUST AIRFLOW RATE.
5*. ENERGY RECOVERY VENTILATORS SHALL BE BALANCED AT REDUCED EXHAUST AIRFLOW RATE BY THE TEST, ADJUST, & BALANCE CONTRACTOR.
6. PROVIDE BACNET COMMUNICATION CARD.
7. PROVIDE DOUBLE WALL CONSTRUCTION.
8. PROVIDE UNIT WITH MOTORIZED DAMPERS AT SUPPLY AND EXHAUST AIRSTREAMS.

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2/9/2024
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STATE OF MISSISSIPPI
Jason A. Matiacio 30457

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief ofEngineering) G. REED	FACILITY NUMBER: B1002
DRAWN: IOL / PROJECT NUMBER: MAHG 17-1095	SHEET NAME: SCHEDULES	DRAWING NUMBER: M-602
CHECKED: JAM / DATE: 020924		SHEET 43 OF 74

CONTROLS LEGEND

- AI — ANALOG INPUT
- AO — ANALOG OUTPUT
- DI — DIGITAL INPUT
- DO — DIGITAL OUTPUT
- COMM — BAS COMMUNICATION LINK
- -- — CONTROL DEVICE (SEE ABBREVIATIONS FOR TYPE)
- D — DUCT SMOKE DETECTOR (BY ELECTRICAL)
- H — ZONE HUMIDITY SENSOR
- T — ZONE TEMPERATURE SENSOR
- H — HUMIDISTAT
- T — THERMOSTAT
- -- — POINT SENSOR
- -- — AVERAGING SENSOR
- M — MOTORIZED OPPOSED BLADE DAMPER
- M — MOTORIZED PARALLEL BLADE DAMPER
- M — MOTORIZED VOLUME CONTROL DAMPER
- # — HARDWIRE INTERLOCK
- M — TWO-WAY CONTROL VALVE

CONTROLS ABBREVIATIONS

ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AMS	AIRFLOW MEASURING STATION
AO	ANALOG OUTPUT
BAS	BUILDING AUTOMATION SYSTEM
C	COMMAND
CFM	CUBIC FEET PER MINUTE
CO2	CARBON DIOXIDE
COMM	COMMUNICATION
CSR	CURRENT SENSING RELAY
CU	CONDENSING UNIT
DDC	DIRECT DIGITAL CONTROLS
DEM	DIGITAL ENERGY METER
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	DEW POINT
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
EA	EACH
EF	EXHAUST FAN
ES	END SWITCH
F/A	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FB	FEEDBACK
FC	FAIL CLOSED
FMS	FLOW MEASURING STATION
FO	FAIL OPEN
FS	FLOAT SWITCH
FTL	FAIL TO LAST POSITION
FZ	FREEZESTAT
HI	HIGH STATIC SAFETY
HP	HEAT PUMP, HORSEPOWER
HS	HUMIDITY SENSOR
KW	KILOWATT
KWH	KILOWATT HOUR
M	MOTORIZED ACTUATOR
MD	MOTORIZED DAMPER
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OAU	OUTDOOR AIR UNIT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OS	OCCUPANCY SENSOR (BY ELECTRICAL)
PDP	PRIMARY DRAIN PAN
PPM	PARTS PER MILLION
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DAMPER
SDP	SECONDARY DRAIN PAN
SF	SUPPLY FAN
SP	STATIC PRESSURE
T	TEMPERATURE
TS	TEMPERATURE SENSOR
TYP	TYPICAL
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW

AHU-# SEQUENCE OF OPERATION (TYPICAL FOR AHU-1,-2,-3,-4,-5,-6,-7,-8)

GENERAL : THIS CHILLED WATER AIR HANDLING UNIT SERVES DOWNSTREAM VARIABLE AIR VOLUME TERMINAL UNITS WITH HEATING COILS FOR ZONE TEMPERATURE CONTROL. OUTSIDE AIR IS PRE-TREATED BY DEDICATED OUTSIDE AIR UNITS AND IS PROVIDED FOR VENTILATION AND BUILDING PRESSURIZATION. PRE-TREATED OUTSIDE AIR IS DUCTED TO THE RETURN SIDE OF EACH AIR HANDLING UNIT. PROVIDE THE FOLLOWING FOR EACH AIR HANDLING UNIT.

1. COOLING COIL CONTROL.
2. FAN SPEED CONTROL.

SAFETY CONTROL SEQUENCES : PROVIDE THE FOLLOWING SAFETY FUNCTIONS.

1. SMOKE DETECTORS : SMOKE DETECTORS SHALL BE INSTALLED IN THE RETURN AIR AND SUPPLY AIR DUCTS WHERE SHOWN ON THE DRAWINGS TO STOP THE FANS AND SIGNAL THE FIRE ALARM.
2. SUPPLY FAN FAILURE : REPORT SUPPLY FAN FAILURE ANYTIME FAN COMMAND DOES NOT MATCH FAN STATUS. IF FAN FAILURE IS DUE TO A MANUAL SHUTDOWN, BAS SHALL RESTART FAN WHEN SYSTEM IS RETURNED TO NORMAL.
3. LOW STATIC PRESSURE LIMIT : PROVIDE LOW STATIC PRESSURE SWITCH (ADJUSTABLE) UPSTREAM OF FANS TO STOP THE FANS WHEN STATIC PRESSURE DROPS BELOW -5.0 IN. WG (ADJ). PROVIDE MANUAL RESET.
4. UV LAMPS : PROVIDE MAGNETIC DOOR INTERLOCK SWITCH TO DISABLE UV LAMPS WHEN ACCESS DOOR IS OPEN.

START-STOP SEQUENCES : PROVIDE THE FOLLOWING OPERATIONAL AND INTERLOCK FUNCTIONS WHEN THE AIR HANDLING UNIT FANS ARE STARTED AND STOPPED, UNLESS OTHERWISE NOTED. THE SEQUENCES SHALL BE FUNCTIONAL FOR ANY REASON THE FANS START-STOP IN ANY MODE OF OPERATION (ALL H-O-A MODES, ALL VFD MODES, ALL AUTOMATIC AND SAFETY FUNCTIONS, AND LOCAL MANUAL START-STOP).

1. COOLING COIL CONTROL : ENABLE CONTROLS ON FAN START. CLOSE VALVE TO COIL ON FAN STOP.
2. FAN SPEED CONTROL : ENABLE FAN SPEED CONTROL ON FAN START. DISABLE FAN SPEED CONTROL ON FAN STOP.
3. BI-POLAR IONIZATION : AN AIR PURIFICATION SYSTEM UTILIZING BI-POLAR IONIZATION IS LOCATED UPSTREAM OF THE COOLING COIL AND INTENDED TO OPERATE ONLY WHEN SUPPLY FAN IS RUNNING.
4. UV LAMPS : UV LAMPS ARE LOCATED DOWNSTREAM OF THE COOLING COIL AND CONTROLLED BY A MANUAL SWITCH. THE DESIGN INTENT IS FOR UV LAMPS TO OPERATE CONTINUOUSLY.

ON CYCLE - OCCUPIED MODE : WHEN THE UNIT IS IN THE OCCUPIED MODE IN RESPONSE TO THE BAS SCHEDULE OR A MANUAL OVERRIDE, PROVIDE THE FOLLOWING.

1. START : INITIATE THE START SEQUENCE DESCRIBED IN: "START-STOP SEQUENCES".
2. COOLING COIL CONTROL : PROVIDE TEMPERATURE SENSOR SERPENTINED ACROSS THE LEAVING SIDE OF THE COOLING COIL FOR MONITORING. MODULATE THE CHILLED WATER CONTROL VALVE AS REQUIRED TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 55°F (ADJ) AS SENSED DOWNSTREAM OF FANS.
3. FAN SPEED CONTROL : MONITOR EXISTING STATIC PRESSURE SENSOR MOUNTED IN THE SUPPLY AIR DUCT AS INDICATED. CONTROL THE VARIABLE SPEED DRIVE TO MAINTAIN DESIRED STATIC PRESSURE SETPOINT. TAB TO ESTABLISH DESIGN SETPOINT FOR STATIC PRESSURE SENSOR.
4. STATIC PRESSURE RESET CONTROL (CRITICAL ZONE RESET) : THE BAS SHALL CONTINUOUSLY POLL THE DAMPER POSITION OF ALL VAV TERMINAL UNITS. IF ALL DAMPERS ARE BELOW 70% (ADJ.) AS INDICATED BY COMMAND SIGNAL, THE BAS SHALL RESET THE STATIC PRESSURE SETPOINT DOWN AT A RATE OF -0.1 IN. WG EVERY 15 MINUTES. IF ANY VAV TERMINAL UNIT DAMPER COMMAND SIGNAL IS ABOVE 95% (ADJ.), THE BAS SHALL RESET THE STATIC PRESSURE SETPOINT UP AT A RATE OF +0.25 IN. WG EVERY 15 MINUTES. THE STATIC PRESSURE SETPOINT SHALL REMAIN CONSTANT UNDER ALL OTHER CONDITIONS. LIMIT THE RESET TO A MINIMUM STATIC OF 0.5 IN. WG (ADJ.), AND A MAXIMUM OF 1.0 IN. WG (ADJ.) (AS OPTIMIZED BY TAB).

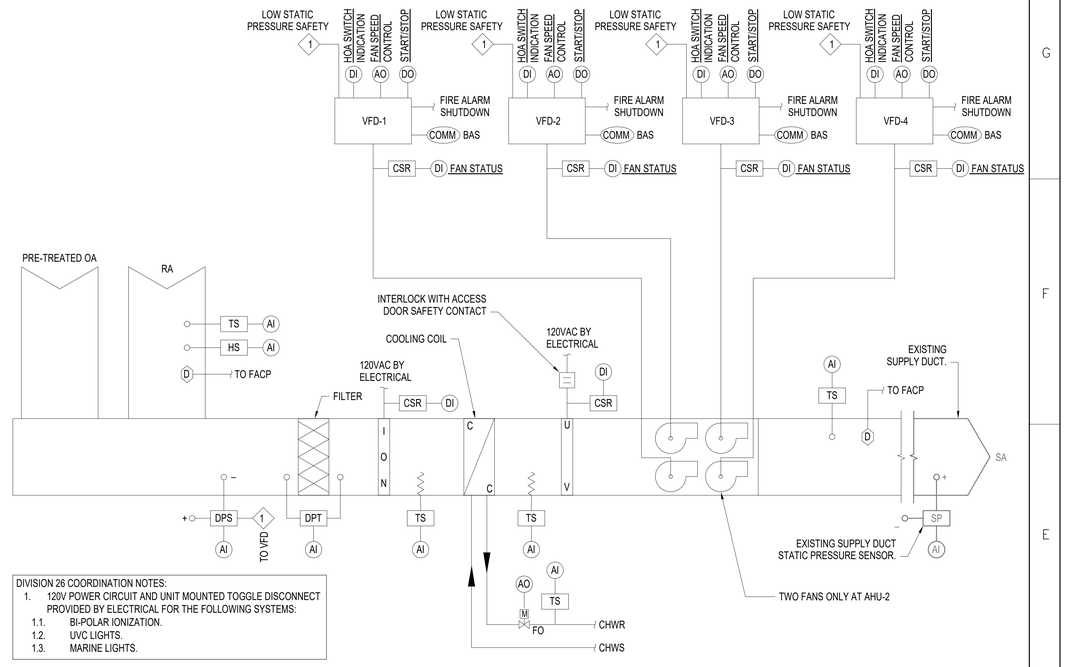
ON CYCLE - UNOCCUPIED MODE : WHEN THE UNIT IS IN THE UNOCCUPIED MODE IN RESPONSE TO THE BAS, PROVIDE THE FOLLOWING.

1. MAINTAIN NORMAL SYSTEM OPERATION WHILE DOWNSTREAM VAV TERMINAL UNITS CONTROL TO UNOCCUPIED MODE TEMPERATURE SETPOINTS.

OFF CYCLE : WHEN THE UNIT IS IN THE OFF CYCLE IN RESPONSE TO THE BAS, PROVIDE THE FOLLOWING.

1. STOP : INITIATE THE STOP SEQUENCE DESCRIBED IN "START-STOP SEQUENCES".

INDICATIONS AND ALARMS : REFER TO THE ASSOCIATED POINTS LIST SCHEDULE.



DIVISION 26 COORDINATION NOTES:
1. 120V POWER CIRCUIT AND UNIT MOUNTED TOGGLE DISCONNECT PROVIDED BY ELECTRICAL FOR THE FOLLOWING SYSTEMS:
   - 1.1. BI-POLAR IONIZATION.
   - 1.2. UVC LIGHTS.
   - 1.3. MARINE LIGHTS.

1 AHU-1,-2,-3,-4,-5,-6,-7,-8 CONTROL DIAGRAM
NOT TO SCALE

AIR HANDLING UNIT POINTS LIST

POINT NAME	POINT DESCRIPTION	UNITS	POINT TYPE: ANALOG	POINT TYPE: DIGITAL	POINT TYPE: VIRTUAL	SETPOINT: VALUE	ALARM CONDITIONS: EQUIP ALARM	ALARM CONDITIONS: HIGH LIMIT OR REFERENCE	ALARM CONDITIONS: LOW LIMIT OR REFERENCE	ALARM CONDITIONS: ALARM DELAY (MIN)	NOTES
INPUT / OUTPUT											
RA-T	RETURN AIR TEMPERATURE	°F	X					82° F	65° F	15.0	(1)
RA-H	RETURN AIR HUMIDITY	% RH	X					65% RH		15.0	(1)
RA-P	RETURN AIR STATIC PRESSURE	IN. WG	X						-5.0 IN. WG	0.0	(1) (2)
FILT-DP	FILTER PRESSURE DROP	IN WG	X					1.0 IN. WG		15.0	(1)
MA-T	MIXED AIR TEMPERATURE	°F	X								
CC-DA-T	COOLING COIL DISCHARGE AIR TEMPERATURE	°F	X								
CC-VLV-C	COOLING COIL VALVE COMMAND	% OPEN	X								
CC-CHWR-T	CHILLED WATER RETURN TEMP	°F	X								
UV-ST	UV LAMPS STATUS	ON/OFF		X							
SF1-SPEED	SUPPLY FAN-1 RPM	RPM	X		X						
SF1-HZ	SUPPLY FAN-1 HZ	HZ	X		X						
SF1-VFD-C	SUPPLY FAN-1 VFD SPEED COMMAND	%	X								
SF1-C	SUPPLY FAN-1 COMMAND	ON/OFF		X			X			1.0	(1) (3)
SF1-ST	SUPPLY FAN-1 STATUS	ON/OFF		X			X			1.0	(1) (3)
SF2-SPEED	SUPPLY FAN-2 RPM	RPM	X		X						
SF2-HZ	SUPPLY FAN-2 HZ	HZ	X		X						
SF2-VFD-C	SUPPLY FAN-2 VFD SPEED COMMAND	%	X								
SF2-C	SUPPLY FAN-2 COMMAND	ON/OFF		X			X			1.0	(1) (3)
SF2-ST	SUPPLY FAN-2 STATUS	ON/OFF		X			X			1.0	(1) (3)
SF3-SPEED	SUPPLY FAN-3 RPM	RPM	X		X						
SF3-HZ	SUPPLY FAN-3 HZ	HZ	X		X						
SF3-VFD-C	SUPPLY FAN-3 VFD SPEED COMMAND	%	X								
SF3-C	SUPPLY FAN-3 COMMAND	ON/OFF		X			X			1.0	(1) (3)
SF3-ST	SUPPLY FAN-3 STATUS	ON/OFF		X			X			1.0	(1) (3)
SF4-SPEED	SUPPLY FAN-4 RPM	RPM	X		X						
SF4-HZ	SUPPLY FAN-4 HZ	HZ	X		X						
SF4-VFD-C	SUPPLY FAN-4 VFD SPEED COMMAND	%	X								
SF4-C	SUPPLY FAN-4 COMMAND	ON/OFF		X			X			1.0	(1) (3)
SF4-ST	SUPPLY FAN-4 STATUS	ON/OFF		X			X			1.0	(1) (3)
SA-T	SUPPLY AIR TEMPERATURE	°F	X					+3°F TO SETPOINT	-3°F SETPOINT	5.0	(1) (2)
RA-DUCT-P	SUPPLY AIR DUCT STATIC PRESSURE	IN. WG	X						-1.5 IN. WG TO SETPOINT	5.0	(1) (2)
SA-DUCT-P	SUPPLY AIR DUCT STATIC PRESSURE	IN. WG	X					+0.5 IN. WG TO SETPOINT	-0.5 IN. WG TO SETPOINT	5.0	(1) (2)
ION-ST	BIPOLAR IONIZATION STATUS	ON/OFF		X							
SETPOINTS											
SA-T-SP	SUPPLY AIR TEMPERATURE SETPOINT	°F	X		X	55					
SA-DUCT-SP	SUPPLY AIR DUCT STATIC PRESSURE SETPOINT	IN. WG	X		X	TAB TO ADJUST					

NOTES:
(1) ALL ALARM SETPOINT AND DELAYS SHALL BE ADJUSTABLE.
(2) TO SETPOINT MEANS ALARM LIMITS ARE WITH REFERENCE TO ACTIVE FEEDBACK STATUS.
(3) EQUIPMENT ALARM MEANS COMMAND STATUS DOES NOT MATCH FEEDBACK STATUS.
(4) POINTS LIST APPLIES TO AHU-1,-2,-3,-4,-5,-6,-7,-8.

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REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Controcts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: IGL	PROJECT NUMBER: MAHG 17-105	SHEET NAME: CONTROLS
CHECKED: JAM	DATE: 02/2024	DRAWING NUMBER: M-701
		SHEET 44 OF 74

OAU-1,-2,-3,-4,-5,-6,-7,-8 SEQUENCE OF OPERATION

SUMMARY: THIS DEDICATED OUTDOOR AIR SYSTEM PROVIDES PRE-TREATED CONSTANT VOLUME VENTILATION AIR TO EACH AIR HANDLING UNIT RETURN DUCT FOR VENTILATION AND BUILDING PRESSURIZATION. PROVIDE THE FOLLOWING FOR EACH AIR HANDLING UNIT.

1. OUTSIDE AIR CONTROL.
2. PREHEAT COIL CONTROL.
3. COOLING COIL CONTROL.

SAFETY CONTROL SEQUENCES: PROVIDE THE FOLLOWING SAFETY FUNCTIONS.

1. FREEZE PROTECTION : PROVIDE LOW TEMPERATURE SAFETY SWITCH DOWNSTREAM OF THE PREHEAT COIL TO SLOW THE FAN TO 25%, OPEN THE PREHEAT COIL CONTROL VALVE TO 100%, AND OPEN THE COOLING COIL CONTROL VALVE TO 100% WHEN THE PREHEAT COIL LEAVING AIR TEMPERATURE DROPS BELOW 38°F.
2. OUTSIDE AIR FAN FAILURE : REPORT OUTSIDE AIR FAN FAILURE ANYTIME FAN COMMAND DOES NOT MATCH FAN STATUS. IF FAN FAILURE IS DUE TO A MANUAL SHUTDOWN, BAS SHALL RESTART FAN WHEN SYSTEM IS RETURNED TO NORMAL.
3. UV LAMPS : PROVIDE MAGNETIC DOOR INTERLOCK SWITCH TO DISABLE UV LAMPS WHEN ACCESS DOOR IS OPEN.

START-STOP SEQUENCES: PROVIDE THE FOLLOWING OPERATIONAL AND INTERLOCK FUNCTIONS WHEN THE AIR HANDLING UNIT FANS ARE STARTED AND STOPPED, UNLESS OTHERWISE NOTED. THE SEQUENCES SHALL BE FUNCTIONAL FOR ANY REASON THE FANS START-STOP IN ANY MODE OF OPERATION (ALL H-O-A MODES, ALL VFD MODES, ALL AUTOMATIC AND SAFETY FUNCTIONS, AND LOCAL MANUAL START-STOP).

1. OUTSIDE AIR DAMPER : OPEN DAMPER ON FAN START. CLOSE DAMPER ON FAN STOP.
2. OUTSIDE AIR CONTROL : ENABLE CONTROLS ON FAN START. DISABLE CONTROLS ON FAN STOP.
3. PREHEAT COIL CONTROL : ENABLE CONTROLS ON FAN START. CLOSE VALVE TO COIL ON FAN STOP.
4. COOLING COIL CONTROL : ENABLE CONTROLS ON FAN START. CLOSE VALVE TO COIL ON FAN STOP.
5. UV LAMPS : UV LAMPS ARE LOCATED DOWNSTREAM OF THE COOLING COIL AND CONTROLLED BY A MANUAL SWITCH. THE DESIGN INTENT IS FOR UV LAMPS TO OPERATE CONTINUOUSLY.

ON CYCLE: WHEN THE UNIT IS IN THE ON MODE IN RESPONSE TO THE BAS OR A MANUAL OVERRIDE, PROVIDE THE FOLLOWING.

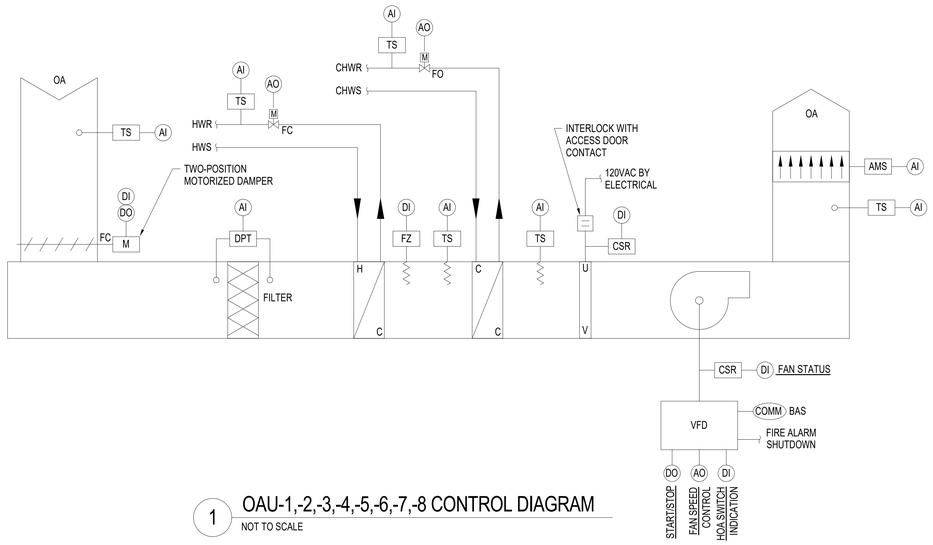
1. START: INITIATE THE START SEQUENCE DESCRIBED IN: "START-STOP SEQUENCES".
2. OUTSIDE AIR CONTROL : PROVIDE AIRFLOW MONITORING STATION IN THE OUTSIDE AIR DUCT. CONTROL THE OUTSIDE AIR FAN SPEED TO MAINTAIN THE OUTSIDE AIR VOLUME LISTED IN THE EQUIPMENT SCHEDULE AT A CONSTANT VOLUME REGARDLESS OF FILTER LOADING AND OTHER SYSTEM PRESSURE CHANGES.
3. PREHEAT COIL CONTROL : PROVIDE TEMPERATURE SENSOR SERPENTINED ACROSS THE LEAVING SIDE OF THE PREHEAT COIL TO MODULATE THE HEATING HOT WATER CONTROL VALVE AS REQUIRED TO MAINTAIN A PREHEAT COIL LEAVING AIR TEMPERATURE OF 50°F (ADJ).
4. COOLING COIL CONTROL : PROVIDE TEMPERATURE SENSOR SERPENTINED ACROSS THE LEAVING SIDE OF THE COOLING COIL TO MODULATE THE CHILLED WATER CONTROL VALVE AS REQUIRED TO MAINTAIN A COOLING COIL LEAVING AIR TEMPERATURE OF 52°F (ADJ).

OFF CYCLE: WHEN THE UNIT IS IN THE OFF MODE IN RESPONSE TO THE BAS, PROVIDE THE FOLLOWING.

1. STOP: INITIATE THE STOP SEQUENCE DESCRIBED IN "START-STOP SEQUENCES".

INTERLOCKS : INTERLOCK EF-1 TO RUN WITH OAU-5 & EF-2 TO RUN WITH OAU-7. PROVIDE ALL NECESSARY HARDWARE AS REQUIRED.

INDICATIONS AND ALARMS : REFER TO THE ASSOCIATED POINTS LIST SCHEDULE.



1 OAU-1,-2,-3,-4,-5,-6,-7,-8 CONTROL DIAGRAM
NOT TO SCALE

OAU POINTS LIST

POINT NAME	POINT DESCRIPTION	UNITS	POINT TYPE			SETPOINT	ALARM CONDITIONS				NOTES
			ANALOG	DIGITAL	VIRTUAL	VALUE	EQUIP ALARM	HIGH LIMIT OR REFERENCE	LOW LIMIT OR REFERENCE	ALARM DELAY (MIN)	
INPUT / OUTPUT											
OA-T	OUTSIDE AIR TEMP	°F	X								
OA-DMPR-C	OUTSIDE AIR DAMPER COMMAND	OPEN / CLOSED		X			X			15.0	(1) (3)
OA-DMPR-FB	OUTSIDE AIR DAMPER POSITION	OPEN / CLOSED		X							
OA_FFILT-DP	OUTSIDE AIR FILTER PRESSURE DROP	IN. WG	X					1.2 IN. WG		15.0	(1)
PHC-DA-T	PREHEAT COIL DISCHARGE AIR TEMPERATURE	°F	X								
PHC-VLV-C	PREHEAT COIL VALVE COMMAND	% OPEN	X								
PHC-HWR-T	PREHEAT COIL HEATING HOT WATER RETURN TEMP	°F	X								
FRZ-ALM	FREEZESTAT ALARM	NORMAL / ALARM		X					38°F		(1)
CC-DA-T	COOLING COIL DISCHARGE AIR TEMPERATURE	°F	X								
CC-VLV-C	COOLING COIL VALVE COMMAND	% OPEN	X								
CC-CHWR-T	COOLING COIL CHILLED WATER RETURN TEMP	°F	X								
UV-ST	UV LAMPS STATUS	ON / OFF		X							
SF-SPEED	SUPPLY FAN RPM	RPM	X		X						
SF-HZ	SUPPLY FAN HZ	HZ	X		X						
SF-VFD-C	SUPPLY FAN VFD SPEED COMMAND	%	X								
SF-C	SUPPLY FAN COMMAND	ON / OFF		X			X			1.0	(1) (3)
SF-ST	SUPPLY FAN STATUS	ON / OFF		X			X			1.0	(1) (3)
SA-T	SUPPLY AIR TEMPERATURE	°F	X					+3°F TO SETPOINT	-3°F SETPOINT	5.0	(1) (2)
OA-FLOW	OUTSIDE AIRFLOW	CFM	X					+200 CFM TO SETPOINT	-200 CFM TO SETPOINT	15.0	(1) (2)
SETPOINTS											
PHC-DA-T-SP	PREHEAT COIL DISCHARGE AIR TEMPERATURE SETPOINT	°F	X		X	50					
CC-DA-T-SP	COOLING COIL DISCHARGE AIR TEMPERATURE SETPOINT	°F	X		X	52					
SA-T-SP	SUPPLY AIR TEMPERATURE SETPOINT	°F	X		X			78°F	45°F	15.0	(1)
OA-FLOW-SP	OUTSIDE AIRFLOW SETPOINT	CFM	X		X	REFER TO SCHEDULE					

NOTES:
(1) ALL ALARM SETPOINT AND DELAYS SHALL BE ADJUSTABLE.
(2) TO SETPOINT MEANS ALARM LIMITS ARE WITH REFERENCE TO ACTIVE FEEDBACK STATUS.
(3) EQUIPMENT ALARM MEANS COMMAND STATUS DOES NOT MATCH FEEDBACK STATUS.

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2/7/2024
Jason A. Matiacio 30457

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Chief ofEngineering) G. REED
DRAWN: IGL
PROJECT NUMBER: MAHG 17-1095
SHEET NAME: CONTROLS
CHECKED: JAM
DATE: 02/2024
FACILITY NUMBER: B1002
DRAWING NUMBER: M-702
SHEET 45 OF 74

ERV-# SEQUENCE OF OPERATION (TYPICAL FOR ERV-1,-2,-3,-4,-5,-6,-7,-8)

SUMMARY: THIS ENERGY RECOVERY VENTILATION SYSTEM RECOVERS WASTE ENERGY FROM THE BUILDING'S EXHAUST AIR AND TRANSFERS TO INCOMING OUTSIDE AIR. EACH UNIT IS EQUIPPED WITH AN ENTHALPY CORE AND IS DUCTED DIRECTLY TO THE DEDICATED OUTSIDE AIR UNIT. PROVIDE THE FOLLOWING FOR EACH ENERGY RECOVERY UNIT.

1. OUTSIDE AIR CONTROL.
2. EXHAUST AIR CONTROL.

SAFETY CONTROL SEQUENCES: PROVIDE THE FOLLOWING SAFETY FUNCTIONS.

1. OUTSIDE AIR FAN FAILURE : REPORT OUTSIDE AIR FAN FAILURE ANYTIME FAN COMMAND DOES NOT MATCH FAN STATUS. IF FAN FAILURE IS DUE TO A MANUAL SHUTDOWN, BAS SHALL RESTART FAN WHEN SYSTEM IS RETURNED TO NORMAL.
2. EXHAUST FAN FAILURE : REPORT EXHAUST FAN FAILURE ANYTIME FAN COMMAND DOES NOT MATCH FAN STATUS. IF FAN FAILURE IS DUE TO A MANUAL SHUTDOWN, BAS SHALL RESTART FAN WHEN SYSTEM IS RETURNED TO NORMAL

START-STOP SEQUENCES: PROVIDE THE FOLLOWING OPERATIONAL AND INTERLOCK FUNCTIONS WHEN THE ENERGY RECOVERY UNIT FANS ARE STARTED AND STOPPED, UNLESS OTHERWISE NOTED. THE SEQUENCES SHALL BE FUNCTIONAL FOR ANY REASON THE FANS START-STOP IN ANY MODE OF OPERATION (ALL H-O-A MODES, ALL VFD MODES, ALL AUTOMATIC AND SAFETY FUNCTIONS, AND LOCAL MANUAL START-STOP).

1. OUTSIDE AIR DAMPER : OPEN DAMPER ON FAN START. CLOSE DAMPER ON FAN STOP.
2. EXHAUST AIR DAMPER : OPEN DAMPER ON FAN START. CLOSE DAMPER ON FAN STOP.
3. OUTSIDE AIR CONTROL : ENABLE CONTROLS ON FAN START. DISABLE CONTROLS ON FAN STOP.
4. EXHAUST AIR CONTROL : ENABLE CONTROLS ON FAN START. DISABLE CONTROLS ON FAN STOP.

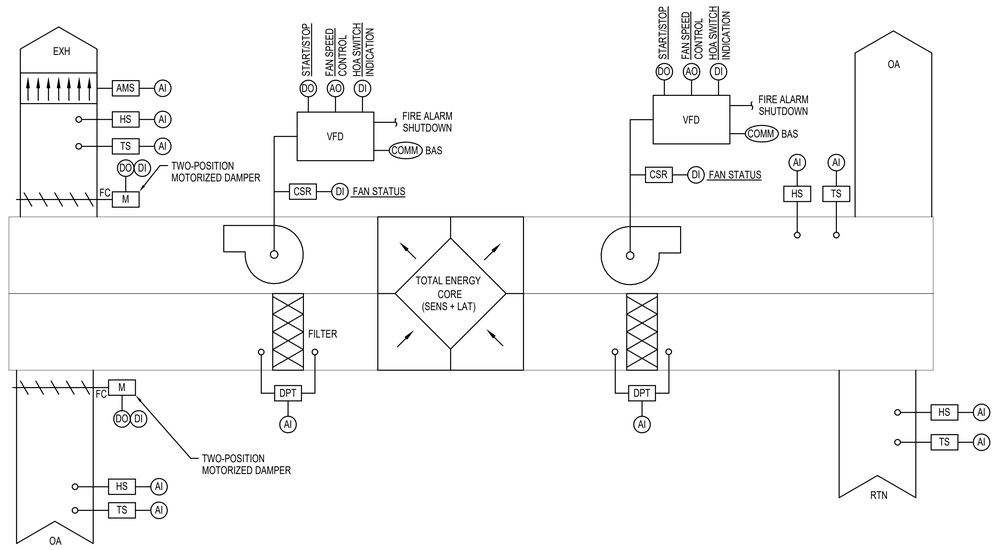
ON CYCLE: WHEN THE UNIT IS IN THE ON MODE IN RESPONSE TO THE BAS OR A MANUAL OVERRIDE, PROVIDE THE FOLLOWING.

1. START: INITIATE THE START SEQUENCE DESCRIBED IN: "START-STOP SEQUENCES".
2. OUTSIDE AIR CONTROL : OUTSIDE AIR FAN SHALL MAINTAIN CONSTANT SPEED (SET BY TAB) REGARDLESS OF FILTER LOADING AND OTHER SYSTEM AIRFLOW OR PRESSURE CHANGES.
3. EXHAUST AIR CONTROL : PROVIDE AIRFLOW MONITORING STATION IN THE EXHAUST AIR DUCT. CONTROL THE EXHAUST AIR FAN SPEED TO MAINTAIN THE EXHAUST AIR VOLUME LISTED IN THE EQUIPMENT SCHEDULE AT A CONSTANT VOLUME REGARDLESS OF FILTER LOADING AND OTHER SYSTEM PRESSURE CHANGES.

OFF CYCLE: WHEN THE UNIT IS IN THE OFF MODE IN RESPONSE TO THE BAS, PROVIDE THE FOLLOWING.

1. STOP: INITIATE THE STOP SEQUENCE DESCRIBED IN "START-STOP SEQUENCES".

INDICATIONS AND ALARMS : REFER TO THE ASSOCIATED POINTS LIST SCHEDULE.



1 ERV-1,-2,-3,-4,-5,-6,-7,-8 CONTROL DIAGRAM

NOT TO SCALE

ERV POINTS LIST

POINT NAME	POINT DESCRIPTION	UNITS	POINT TYPE			SETPOINT	ALARM CONDITIONS				NOTES
			ANALOG	DIGITAL	VIRTUAL	VALUE	EQUIP ALARM	HIGH LIMIT OR REFERENCE	LOW LIMIT OR REFERENCE	ALARM DELAY (MIN)	
INPUT / OUTPUT											
OA-T	OUTSIDE AIR TEMP	°F	X								
OA-H	OUTSIDE AIR HUMIDITY	% RH	X								
OA-DMPR-C	OUTSIDE AIR DAMPER COMMAND	OPEN / CLOSED		X			X			15.0	(1) (3)
OA-DMPR-FB	OUTSIDE AIR DAMPER POSITION	OPEN / CLOSED		X							
OA_FFILT-DP	OUTSIDE AIR FILTER PRESSURE DROP	IN. WG	X					1.2 IN. WG		15.0	(1)
VA-H	VENTILATION AIR HUMIDITY										
OAF-SPEED	OUTSIDE AIR FAN RPM	RPM	X		X						
OAF-HZ	OUTSIDE AIR FAN HZ	HZ	X		X						
OAF-VFD-C	OUTSIDE AIR FAN VFD SPEED COMMAND	%	X								
OAF-C	OUTSIDE AIR FAN COMMAND	ON / OFF		X			X			1.0	(1) (3)
OAF-ST	OUTSIDE AIR FAN STATUS	ON / OFF		X			X			1.0	(1) (3)
VA-T	VENTILATION AIR TEMP	°F	X					+3°F TO SETPOINT	-3°F SETPOINT	5.0	(1) (2)
RA-T	RETURN AIR TEMPERATURE	°F	X							15.0	(1)
RA-H	RETURN AIR HUMIDITY	% RH	X							15.0	(1)
RA_FILT-DP	RETURN AIR FILTER PRESSURE DROP	IN. WG	X					1.0 IN. WG		15.0	(1)
EF-SPEED	EXHAUST FAN RPM	RPM	X		X						
EF-HZ	EXHAUST FAN HZ	HZ	X		X						
EF-VFD-C	EXHAUST FAN VFD SPEED COMMAND	%	X								
EF-C	EXHAUST FAN COMMAND	ON / OFF		X			X			1.0	(1) (3)
EF-ST	EXHAUST FAN STATUS	ON / OFF		X			X			1.0	(1) (3)
EXH-DMPR-C	EXHAUST AIR DAMPER COMMAND	OPEN / CLOSED		X			X			15.0	(1) (3)
EXH-DMPR-FB	EXHAUST AIR DAMPER POSITION	OPEN / CLOSED		X							
EXH-T	EXHAUST AIR TEMPERATURE	°F	X							15.0	(1)
EXH-H	EXHAUST AIR HUMIDITY	% RH	X							15.0	(1)
EXH-FLOW	EXHAUST AIRFLOW	CFM	X					+100 CFM TO SETPOINT	-100 CFM TO SETPOINT	15.0	(1) (2)
SETPOINTS											
EXH-FLOW-SP	EXHAUST AIRFLOW SETPOINT	CFM	X		X	REFER TO SCHEDULE					

NOTES:

(1) ALL ALARM SETPOINT AND DELAYS SHALL BE ADJUSTABLE.

(2) TO SETPOINT MEANS ALARM LIMITS ARE WITH REFERENCE TO ACTIVE FEEDBACK STATUS.

(3) EQUIPMENT ALARM MEANS COMMAND STATUS DOES NOT MATCH FEEDBACK STATUS.

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REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

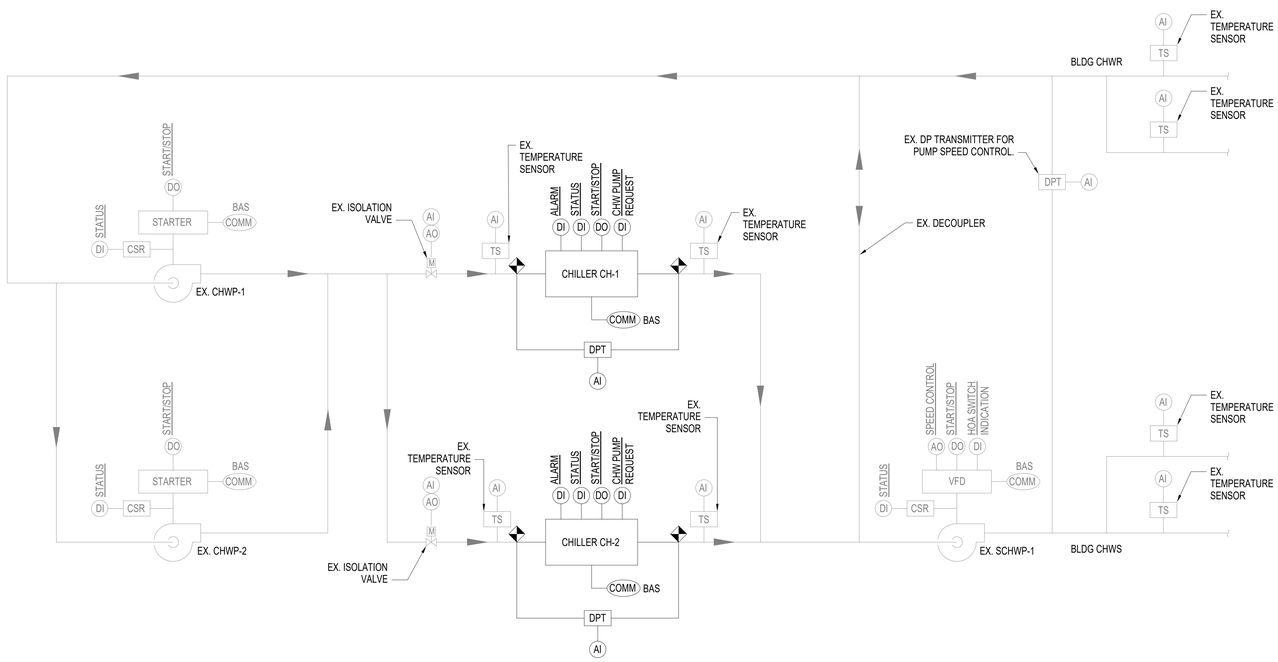
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)

RECOMMENDED: (Chief of Engineering)
G. REED

DRAWN: KG
PROJECT NUMBER: MAHG 71-095
SHEET NAME: CONTROLS
CHECKED: JAM
DATE: 02/20/24

FACILITY NUMBER: B1002
DRAWING NUMBER: M-703
SHEET 46 OF 74



1 CHILLED WATER SYSTEM - CONTROL DIAGRAM

NOT TO SCALE

CHILLED WATER SYSTEM - SEQUENCE OF OPERATION

GENERAL : THE BUILDING IS COOLED BY A CHILLED WATER SYSTEM WITH TWO WATER-COOLED CHILLERS. EACH CHILLER IS SIZED TO PROVIDE 100% OF THE BUILDING'S COOLING CAPACITY. THE CHILLERS ARE DESIGNED FOR A LEAD-STANDBY CONFIGURATION, WHERE THE STANDBY / BACKUP CHILLER OPERATES ONLY DUE TO LEAD CHILLER FAILURE OR SERVICE OUTAGE.

TWO EXISTING CONSTANT SPEED PRIMARY CHILLED WATER PUMPS ARE PIPED IN PARALLEL. THE PUMPS ARE INTENDED FOR A LEAD-STANDBY CONFIGURATION, WHERE THE STANDBY / BACKUP PUMP OPERATES ONLY DUE TO LEAD PUMP FAILURE OR SERVICE OUTAGE. PUMPS ARE INTENDED TO OPERATE AT CONSTANT SPEED.

ONE EXISTING SECONDARY CHILLED WATER PUMP IS IN PLACE. THE SECONDARY PUMP PROVIDES CHILLED WATER TO THE BUILDING. A VARIABLE FREQUENCY DRIVE IS IN PLACE TO MODULATE PUMP SPEED AS SYSTEM DIFFERENTIAL PRESSURE CHANGES.

CHILLER SEQUENCE OF OPERATION :

1. CHILLERS SHALL OPERATE IN ACCORDANCE WITH EXISTING SEQUENCE OF OPERATION.

INDICATIONS AND ALARMS : REFER TO THE ASSOCIATED POINTS LIST SCHEDULE.

CHILLER - POINTS LIST

POINT NAME	POINT DESCRIPTION	UNITS	POINT TYPE			SETPOINT	ALARM CONDITIONS				NOTES
			ANALOG	DIGITAL	VIRTUAL	VALUE	EQUIP ALARM	HIGH LIMIT OR REFERENCE	LOW LIMIT OR REFERENCE	ALARM DELAY (MIN)	
INPUT / OUTPUT											
CH_1-CHW-DP	CHILLER #1 EVAPORATOR BARREL DIFFERENTIAL PRESSURE	PSID	X					+3 PSID TO SETPOINT	-3 PSID TO SETPOINT	5.0	(1) (3)
CH_1-C	CHILLER #1 COMMAND	ON / OFF		X			X			1.0	(1) (2)
CH_1-ST	CHILLER #1 STATUS	ON / OFF		X			X			1.0	(1) (2)
CH_2-CHW-DP	CHILLER #2 EVAPORATOR BARREL DIFFERENTIAL PRESSURE	PSID	X					+3 PSID TO SETPOINT	-3 PSID TO SETPOINT	5.0	(1) (3)
CH_2-C	CHILLER #2 COMMAND	ON / OFF		X			X			1.0	(1) (2)
CH_2-ST	CHILLER #2 STATUS	ON / OFF		X			X			1.0	(1) (2)
SETPOINTS											
CHWS-T-SP	CHILLED WATER SUPPLY TEMPERATURE SETPOINT	°F	X		X	44					

NOTES:

(1) ALL ALARM SETPOINT AND DELAYS SHALL BE ADJUSTABLE.

(2) EQUIPMENT ALARM MEANS COMMAND STATUS DOES NOT MATCH FEEDBACK STATUS.

(3) TO SETPOINT MEANS ALARM LIMITS ARE WITH REFERENCE TO ACTIVE FEEDBACK STATUS.

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UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Controls Design)

RECOMMENDED: (Chief of Engineering) G. REED

FACILITY NUMBER: B1002

DRAWN: KK

PROJECT NUMBER: MAHG 17-1095

SHEET NAME: CONTROLS

DRAWING NUMBER: M-704

CHECKED: JAM

DATE: 02/00/24

SHEET 47 OF 74

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
ADA	AMERICANS WITH DISABILITY ACT
DCW	DOMESTIC COLD WATER
DFU	DRAINAGE FIXTURE UNITS
EFD	EMERGENCY FLOOR DRAIN
EX	EXISTING
FD	FLOOR DRAIN
GAL	GALLONS
GPM	GALLONS PER MINUTE
GPF	GALLONS PER FLUSH
HP	HORSEPOWER
HR	HOUR
IN	INCH
LAV	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH
SP	SUMP PUMP
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UR	URINAL
V	VENT
VTR	VENT THROUGH ROOF
W	WATTS; WASTE
WC	WATER CLOSET
WSFU	WATER SERVICE FIXTURE UNITS
V	VOLT
Φ	PHASE

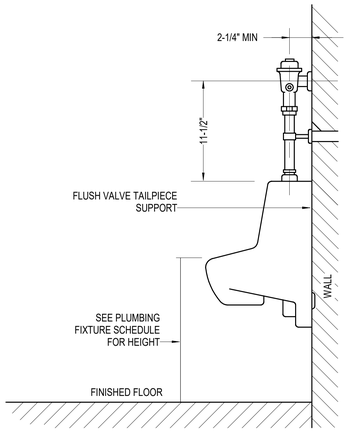
PLUMBING LEGEND

CONNECT TO EXISTING

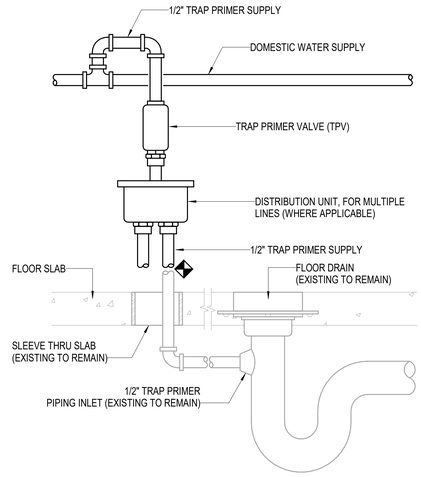
EWH 1 — EQUIPMENT TAG

PLUMBING GENERAL NOTES

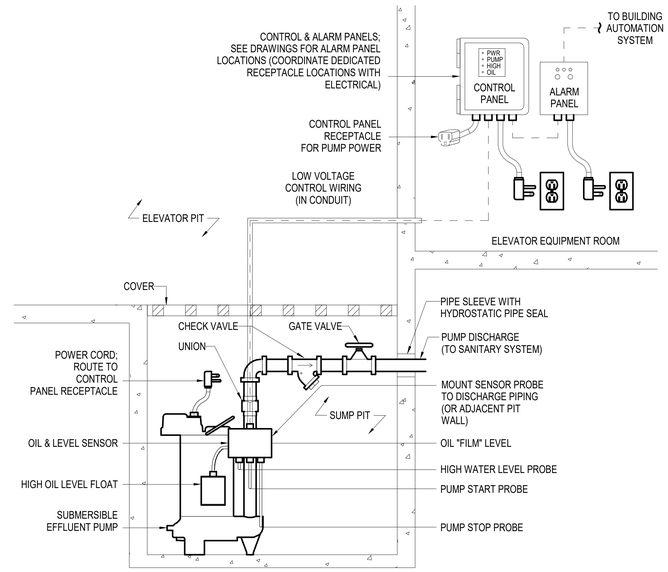
1. THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH MINIMUM INTERFERENCE TO OTHER TRADES.
2. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS IN THE FIELD TO ENSURE A CLOSE, NEAT INSTALLATION WITH ALL OTHER TRADES' WORK AND EXISTING CONDITIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTIONS TO ALL PLUMBING FIXTURES AS INDICATED ON THE PLUMBING AND ARCHITECTURAL DRAWINGS. WHERE THERE EXISTS ANY DISCREPANCY IN THE DRAWINGS, THE SPECIFICATIONS OR DESIGN REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE MORE STRINGENT REQUIREMENT AND THEN BRING THE DISCREPANCY TO THE ARCHITECT.
4. ALL FLOOR DRAIN P-TRAPS SHALL HAVE TRAP SEAL PROTECTION. THE TYPE OF TRAP SEAL PROTECTION SHALL BE AS INDICATED ON PLUMBING PLANS OR AS APPROVED BY LOCAL CODE OFFICIAL.
5. PROVIDE ANTI-SIPHON DEVICES ON ALL HOSE END CONNECTION FAUCETS.
6. PROVIDE FIRE STOPPING FOR ALL PIPING PENETRATING RATED FLOORS, WALLS, PARTY WALLS AND CEILINGS. FIRE STOPPING METHODS SHALL BE AS INDICATED IN THE SPECIFICATIONS AND AS PER CODE REQUIREMENTS. PROVIDE FIRE STOPPING MATERIALS AND METHODS IN SUBMITTALS WITH PLUMBING SUBMITTALS.
7. NO FITTINGS SHALL BE ALLOWED ON DOMESTIC WATER PIPING BELOW CONCRETE SLAB.
8. PROVIDE DI-ELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.



1 FLUSH VALVE SUPPORT DETAIL
NOT TO SCALE



2 TRAP PRIMER VALVE DETAIL
NOT TO SCALE

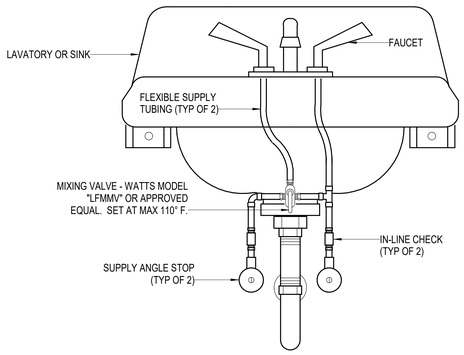


3 ELEVATOR PUMP OIL DETECTION DETAIL
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	CONNECTIONS WASTE	CW	HW	VENT	MAKE	MODEL	DESCRIPTION
LV-1A	COUNTERTOP LAVATORY (ADA)	1-1/2"	1/2"	1/2"	1-1/2"	AMERICAN STANDARD	0476228	DROP-IN, VITREOUS CHINA LAVATORY, 4" CENTERS, GRID DRAIN
						AMERICAN STANDARD	7075.2	CHROME PLATED, MANUAL LAVATORY FAUCET, 0.5 GPM, ADA COMPLIANT, ASME 1070 THERMOSTATIC MIXING VALVE
						-	-	P-TRAP, FLEXIBLE SUPPLY CONNECTORS WITH ANGLE STOPS AND ESCUTCHEONS
						-	-	INSULATING KIT INCLUDING MOLDED COVERS FOR STANDARD TAILPIECE, TRAP, STOPS, AND SUPPLIES FOR ADA COMPLIANCE
UR-1	URINAL	2"	3/4"	-	1-1/2"	AMERICAN STANDARD	6590.001EC	WALL MOUNTED, VITREOUS CHINA FLUSH VALVE URINAL, TOP SPUD AND REAR OUTLET
						SLOAN	ROYAL 186	CHROME PLATED, MANUAL URINAL FLUSH VALVE, 0.5 GPF
						-	-	FIXTURE CARRIER FOR WALL MOUNTED URINAL
UR-1A	URINAL (ADA)	2"	3/4"	-	1-1/2"	AMERICAN STANDARD	6590.001EC	WALL MOUNTED, VITREOUS CHINA FLUSH VALVE URINAL, TOP SPUD AND REAR OUTLET, ADA HEIGHT: MAX 17" FLOOR TO RIM
						SLOAN	ROYAL 186	CHROME PLATED, MANUAL URINAL FLUSH VALVE, 0.5 GPF
						-	-	FIXTURE CARRIER FOR WALL MOUNTED URINAL
WC-1	WATER CLOSET	3"	1-1/2"	-	1-1/2"	AMERICAN STANDARD	3351.101	FLUSH VALVE VITREOUS CHINA WALL MOUNT WATER CLOSET WITH ELONGATED BOWL, TOP SPUD
						AMERICAN STANDARD	5901.100SS	OPEN FRONT SEAT, LESS COVER, WITH SELF SUSTAINING HINGES
						SLOAN	ROYAL 113	CHROME PLATED, MANUAL WATER CLOSET FLUSH VALVE, 1.6 GPF
WC-1A	WATER CLOSET (ADA)	3"	1-1/2"	-	1-1/2"	AMERICAN STANDARD	3351.101	FLUSH VALVE VITREOUS CHINA WALL MOUNT WATER CLOSET WITH ELONGATED BOWL, TOP SPUD, ADA HEIGHT: 17"-19" AFF
						AMERICAN STANDARD	5901.100SS	OPEN FRONT SEAT, LESS COVER, WITH SELF SUSTAINING HINGES
						SLOAN	ROYAL 113	CHROME PLATED, MANUAL WATER CLOSET FLUSH VALVE, 1.6 GPF

NOTES:
1. ALL PLUMBING FIXTURE COLORS/FINISHES SHALL BE SELECTED BY ARCHITECT/OWNER.
2. PROVIDE RH OR LH TRIP LEVER FOR ADA WATER CLOSETS AS REQUIRED FOR GRAB BAR CONFIGURATION.
3. MODEL NUMBERS ARE PROVIDED FOR REFERENCE ONLY. COORDINATE FIXTURE TYPE AND DESCRIPTION WITH BASIS OF DESIGN MANUFACTURER.



NOTE:
PROVIDE MIXING VALVE AT ALL LAVATORIES TO PROVIDE TEMPERED WATER. MIXING VALVE SHALL BE ASME 1070 APPROVED.

4 FIXTURE MIXING VALVE DETAIL
NOT TO SCALE

ELEVATOR SUMP PUMP SCHEDULE

MARK	MAKE	MODEL	PUMP DATA FLOW (GPM)	HEAD (FT)	DISCHARGE (IN)	MOTOR DATA ELECTRICAL VOLTAGE	PHASE	FLA	HP	CORD LENGTH (FT)	SERVICE
SP-1	LIBERTY	290	50	25	1-1/2	115	1	10.4	3/4	10	ELEVATOR PIT

NOTES:
1. ALL SUMP PUMPS INCLUDE ENCLOSED/SUBMERSIBLE MOTORS.
2. PROVIDE WITH OIL DETECTION, ALARM AND CONTROL PANELS.
3. PROVIDE CHECK VALVE, GATE VALVE, LEVEL SWITCH, POWER CORD AND PLUG.

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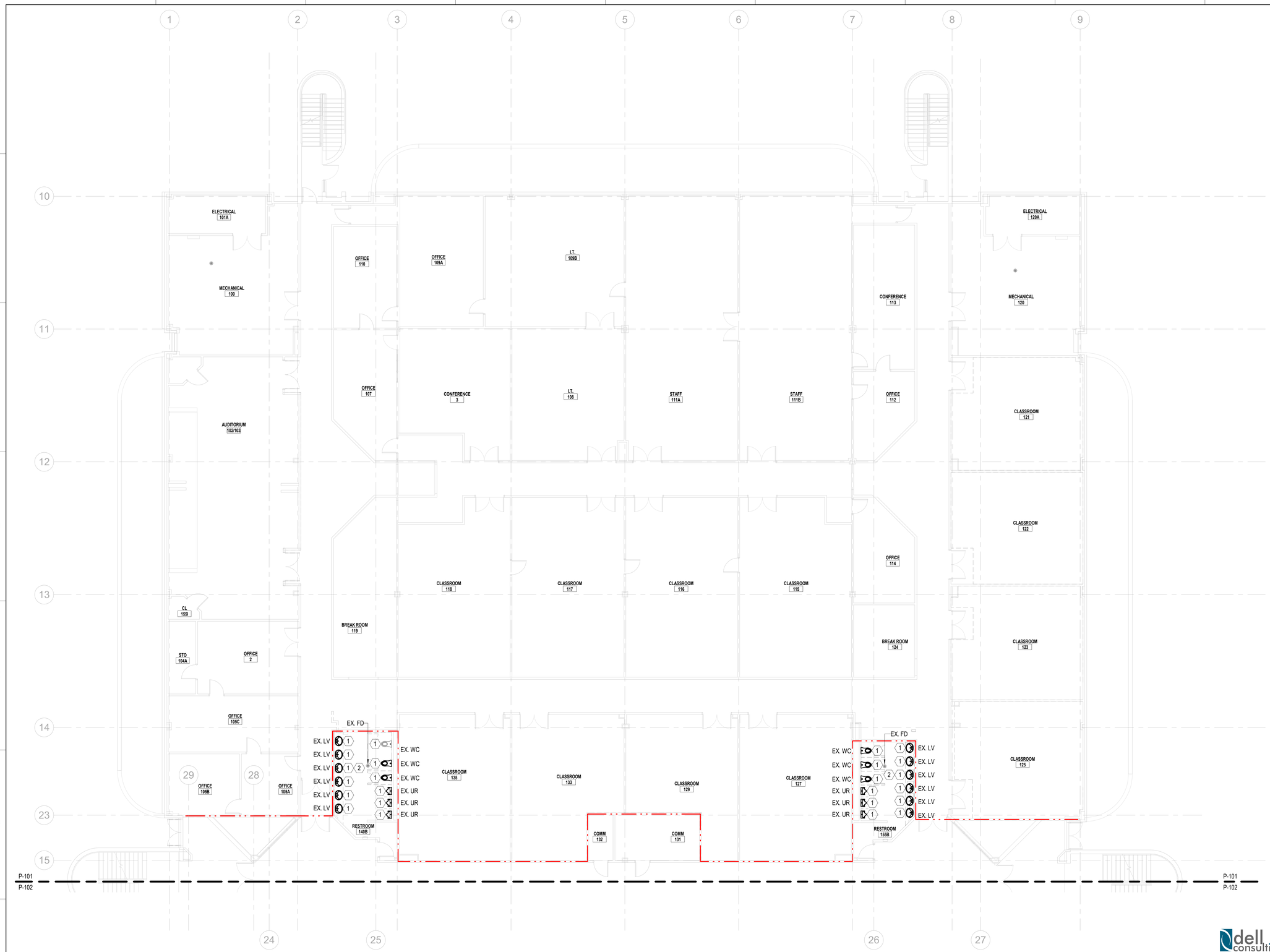
STAMP: JASON ANTHONY MATIACIO LICENSED PROFESSIONAL ENGINEER 30457 STATE OF MISSISSIPPI
2/14/2024
Jason A. Matiacio 30457

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

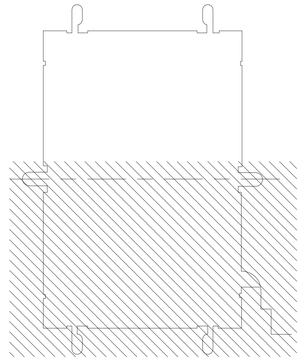
SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Chief of Engineering) G. REED
FACILITY NUMBER: B1002
DRAWN: JGT
PROJECT NUMBER: MAHG 17-105
SHEET NAME: LEGEND, SCHEDULES, AND DETAILS
DRAWING NUMBER: P-001
CHECKED: JAM
DATE: 02/2024
SHEET 48 OF 74



1 1ST FLOOR NORTH - DEMOLITION
1/8" = 1'-0"

SHEET NOTES

#	
1	DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE. SANITARY AND WATER CONNECTIONS SHALL BE REUSED FOR NEW FIXTURE. MODIFY EXISTING PIPING AS NECESSARY TO MAKE NEW FIXTURE CONNECTIONS. SEE NEW WORK.
2	DISCONNECT AND REMOVE EXISTING ABOVE SLAB TRAP PRIMER AT LAVATORY, FIELD VERIFY EXACT LOCATION, PREPARE PIPING FOR NEW ABOVE SLAB TRAP PRIMER INSTALLATION. BELOW SLAB TRAP PRIMER PIPING AND CONNECTION TO EXISTING FLOOR DRAIN SHALL BE REUSED. SLAB SHALL NOT BE COMPROMISED. SEE NEW WORK.



KEY PLAN - NORTH
NOT TO SCALE

ARCHITECT
EGH ARCHITECTS
1091 TOMMY MUNRO DR.
BILOXI, MS 39532
Telephone: 228.594.2323
www.egh.ms

ENGINEER
FIRE PROTECTION ENGINEERING:
I.C. THOMASSON & ASSOCIATES, INC.
MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP
JASON ANTHONY MATIACIO
LICENSED PROFESSIONAL ENGINEER
2/19/2024
30457
STATE OF MISSISSIPPI
Jason A. Matiacio 30457

REVISION	DATE		DRAWN	APPROVED

dell consulting
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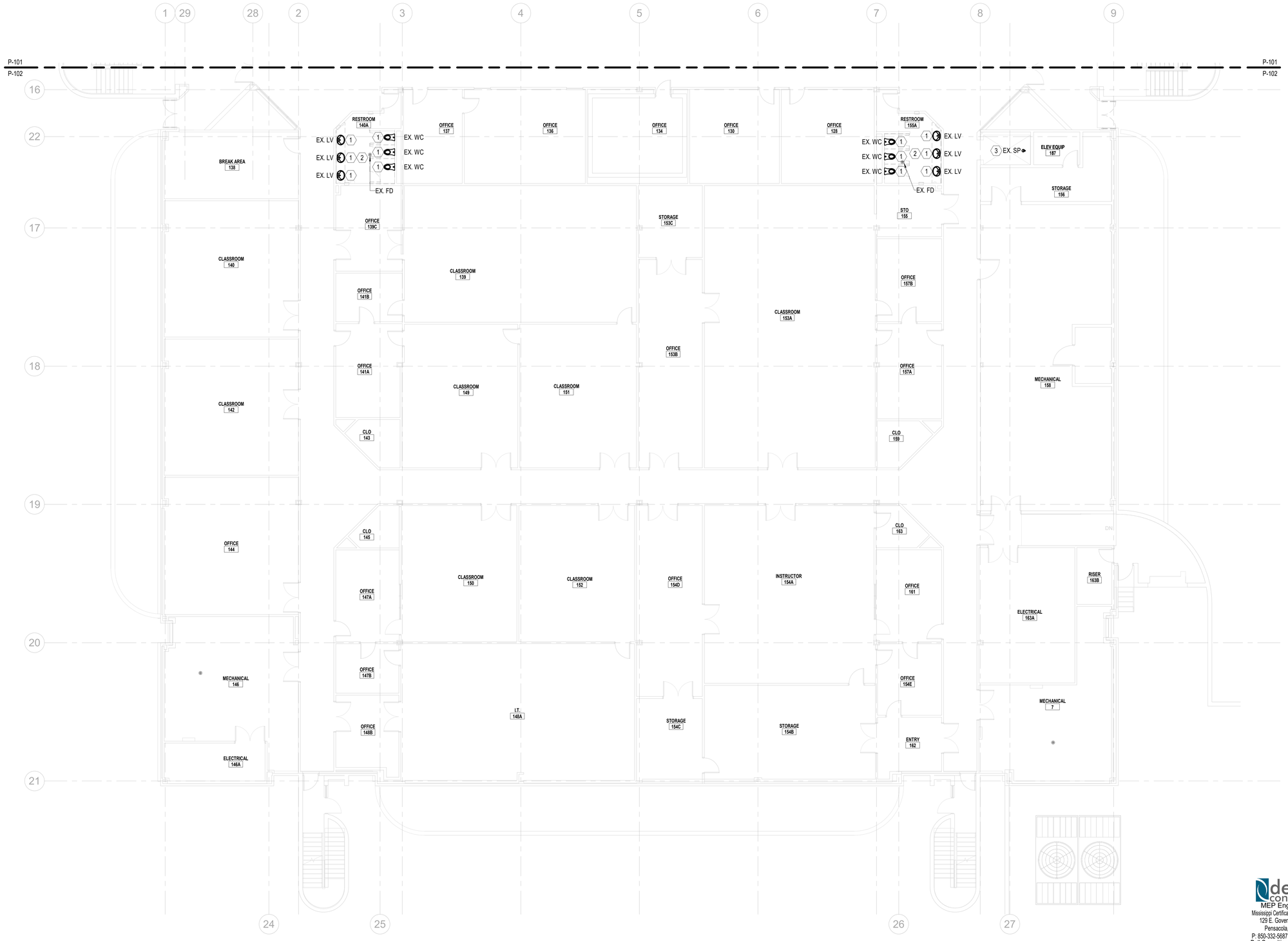
129 E. Government Street
Pensacola, FL 32502
P: 850-332-5687 F:850-332-6629
Dell Consulting project:22-083

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: JGT	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 1ST FLOOR NORTH - DEMOLITION	DRAWING NUMBER: P-101
CHECKED: JAM	DATE: 02/20/24		SHEET 49 OF 74

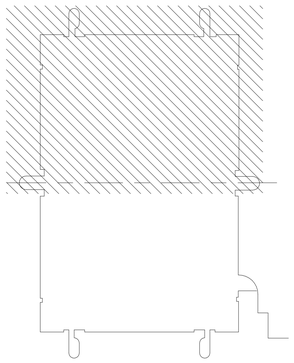
NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"



1 P-102 1ST FLOOR SOUTH - DEMOLITION
1/8" = 1'-0"

SHEET NOTES

#	
1	DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE. SANITARY AND WATER CONNECTIONS SHALL BE REUSED FOR NEW FIXTURE. MODIFY EXISTING PIPING AS NECESSARY TO MAKE NEW FIXTURE CONNECTIONS. SEE NEW WORK.
2	DISCONNECT AND REMOVE EXISTING ABOVE SLAB TRAP PRIMER AT LAVATORY, FIELD VERIFY EXACT LOCATION, PREPARE PIPING FOR NEW ABOVE SLAB TRAP PRIMER INSTALLATION. BELOW SLAB TRAP PRIMER PIPING AND CONNECTION TO EXISTING FLOOR DRAIN SHALL BE REUSED. SLAB SHALL NOT BE COMPROMISED. SEE NEW WORK.
3	DISCONNECT AND REMOVE EXISTING SUMP PUMP. PREPARE EXISTING SUMP PUMP DISCHARGE PIPING FOR NEW CONNECTION. FIELD VERIFY AND DOCUMENT SIZE (HP, GPM, FT WG) OF EXISTING PUMP. SUBMIT INFORMATION TO ENGINEER FOR REVIEW PRIOR TO DEMOLITION.



1 KEY PLAN - SOUTH
NOT TO SCALE

dell consulting
MEP Engineering
Mississippi Certificate Number: E-1969
129 E. Government Street
Pensacola, FL 32502
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Dell Consulting project:22-083

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

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ENGINEER
FIRE PROTECTION ENGINEERING:
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REVISION	DATE	DRAWN	APPROVED

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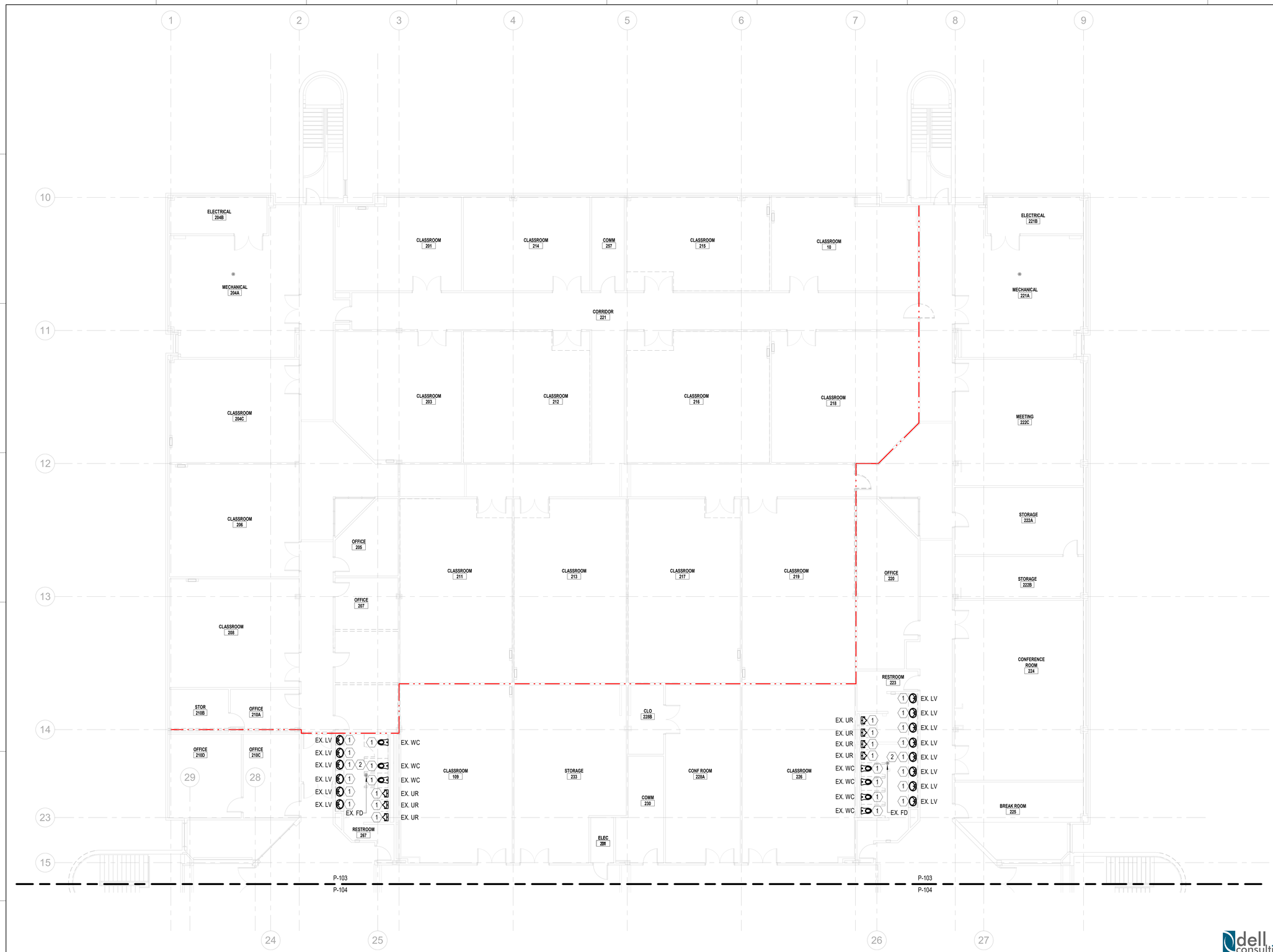
BILOXI — MISSISSIPPI
OFFICE OF CIVIL ENGINEERS

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Controcts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: JGT	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 1ST FLOOR SOUTH - DEMOLITION	DRAWING NUMBER: P-102
CHECKED: JAM	DATE: 02/2024		SHEET 50 OF 74



1 P-103 2ND FLOOR NORTH - DEMOLITION
1/8" = 1'-0"

#	SHEET NOTES
1	DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE. SANITARY AND WATER CONNECTIONS SHALL BE REUSED FOR NEW FIXTURE. MODIFY EXISTING PIPING AS NECESSARY TO MAKE NEW FIXTURE CONNECTIONS. SEE NEW WORK.
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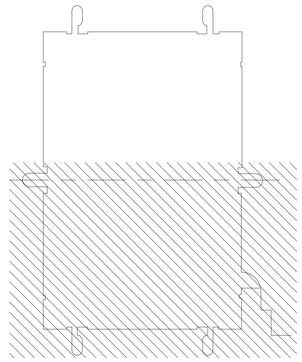

KEY PLAN - NORTH
NOT TO SCALE

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BILOXI, MS 39532
Telephone: 228.594.2323
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REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE, BILOXI, MISSISSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR
STENNIS HALL

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Mississippi Certificate Number: E-1969
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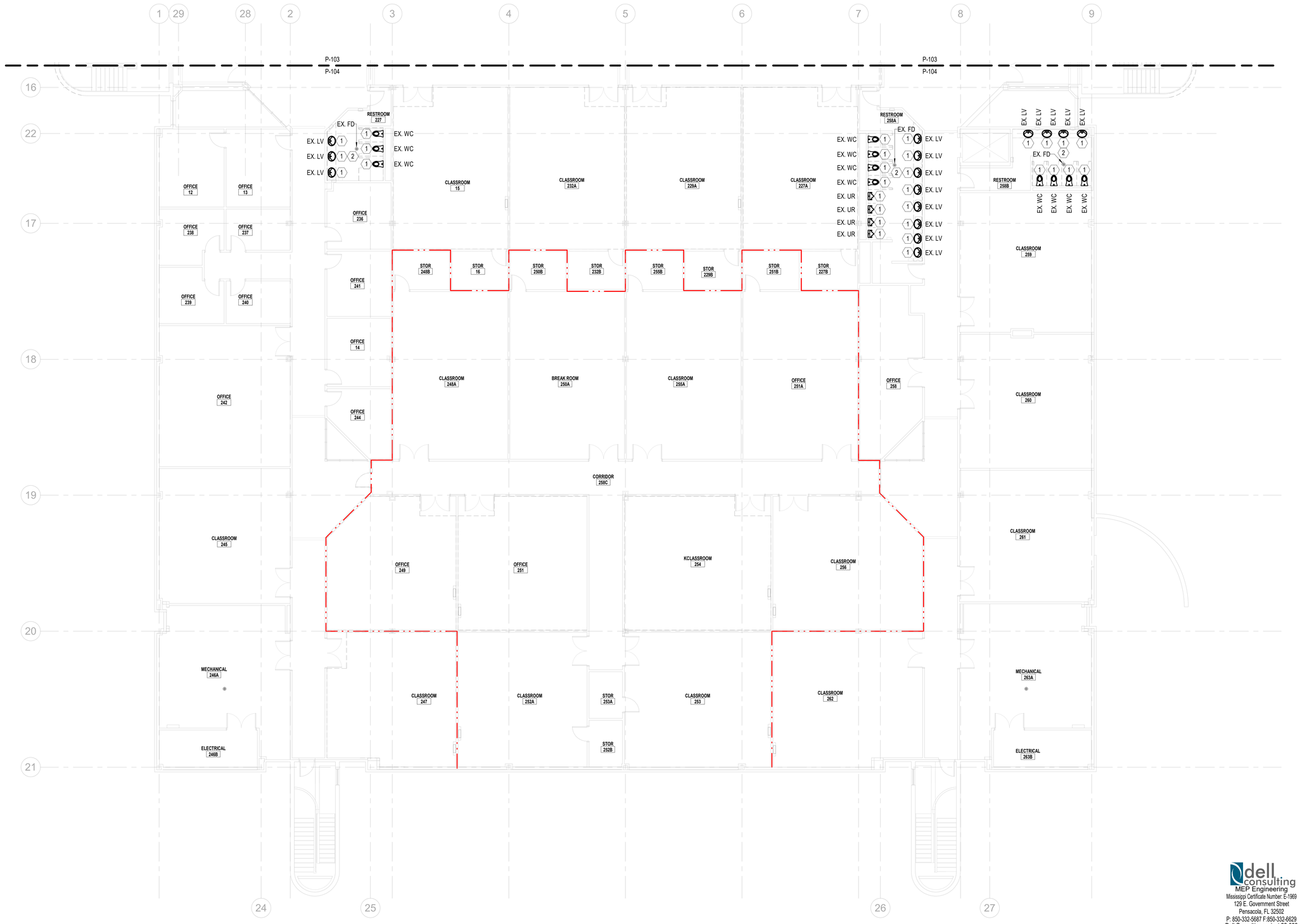
Dell Consulting project:22-083

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

SUBMITTED: (Chief of Contracts: Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: JDT	PROJECT NUMBER: MAHG 171095	SHEET NAME: 2ND FLOOR NORTH - DEMOLITION	DRAWING NUMBER: P-103
CHECKED: JAM	DATE: 02/20/24	SHEET 51 OF 74



1 (P-104) 2ND FLOOR SOUTH - DEMOLITION
1/8" = 1'-0"

SHEET NOTES

#	
1	DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE. SANITARY AND WATER CONNECTIONS SHALL BE REUSED FOR NEW FIXTURE. MODIFY EXISTING PIPING AS NECESSARY TO MAKE NEW FIXTURE CONNECTIONS. SEE NEW WORK.
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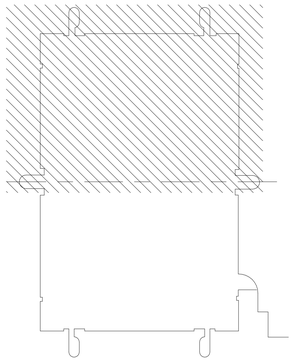

KEY PLAN - SOUTH
NOT TO SCALE

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MEP Engineering
Mississippi Certificate Number: E-1969
129 E. Government Street
Pensacola, FL 32502
P: 850-332-5687 F:850-332-6629
Dell Consulting project:22-083

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

ARCHITECT
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FIRE PROTECTION ENGINEERING:
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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

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REGISTERED PROFESSIONAL ENGINEER
2/9/2024
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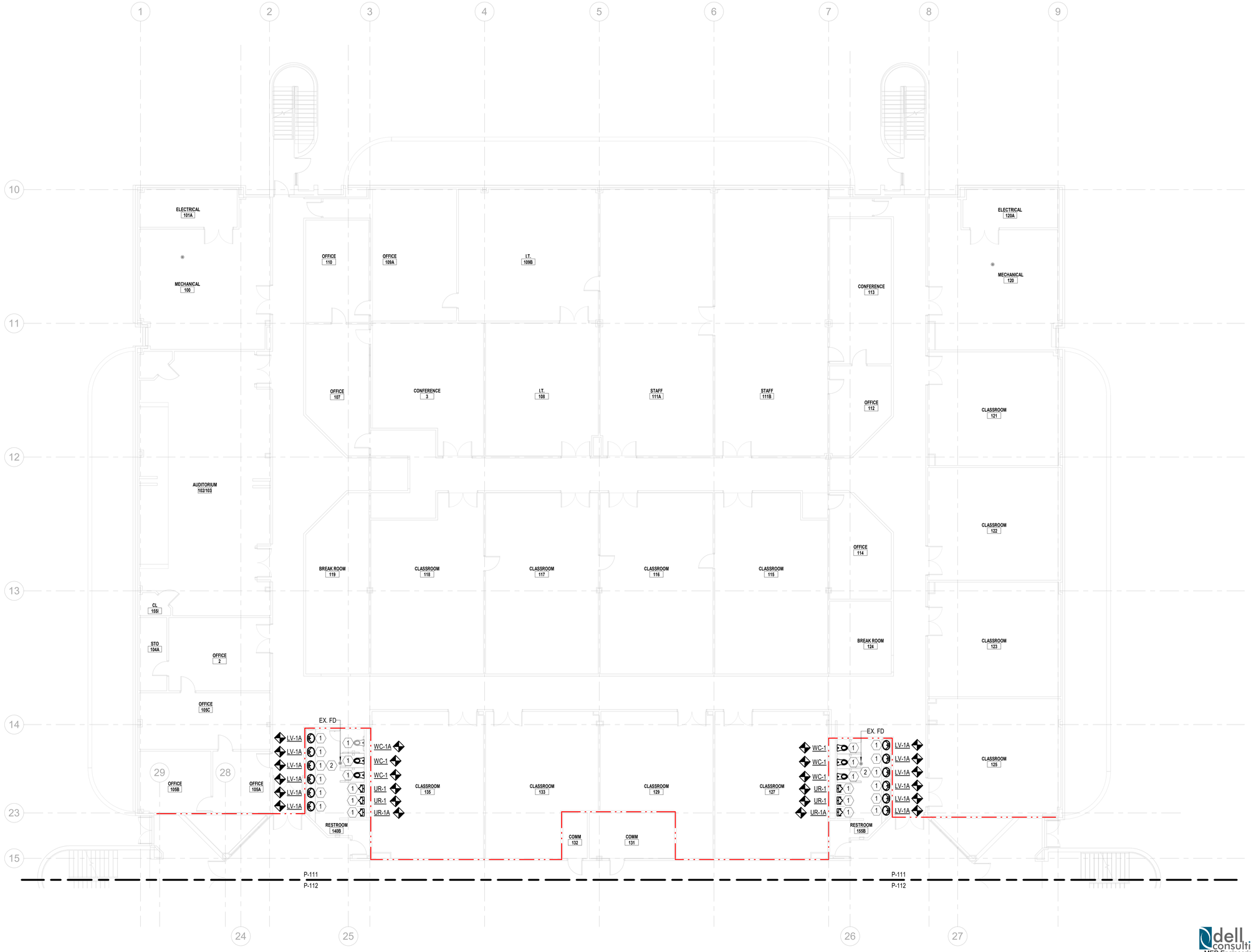
STATE OF MISSISSIPPI
Jason A. Matiacio 30457

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILDG: ——— OFFICE OF CIVIL ENGINEERS ——— MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

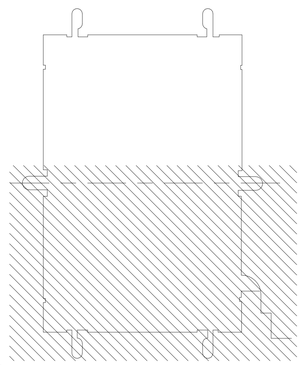
SUBMITTED: (Chief of Controcts Design)	RECOMMENDED: (Chief ofEngineering) G. REED	FACILITY NUMBER: B1002
DRAWN: JGT — PROJECT NUMBER: MAHG-171095	SHEET NAME: 2ND FLOOR SOUTH - DEMOLITION	DRAWING NUMBER: P-104
CHECKED: JAM — DATE: 02/20/24		SHEET 52 OF 74



1 1ST FLOOR NORTH - PLUMBING
1/8" = 1'-0"

SHEET NOTES

#	
1	INSTALL NEW FIXTURE ACCORDING TO DESIGN GUIDELINES AND SPECIFICATIONS. MODIFY EXISTING PIPING AS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
2	PROVIDE NEW ABOVE SLAB TRAP PRIMER AT LAVATORY. REUSE EXISTING UNDERFLOOR PIPING AND CONNECT TO EXISTING FLOOR DRAIN.



KEY PLAN - NORTH
NOT TO SCALE

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FIRE PROTECTION ENGINEERING:
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REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

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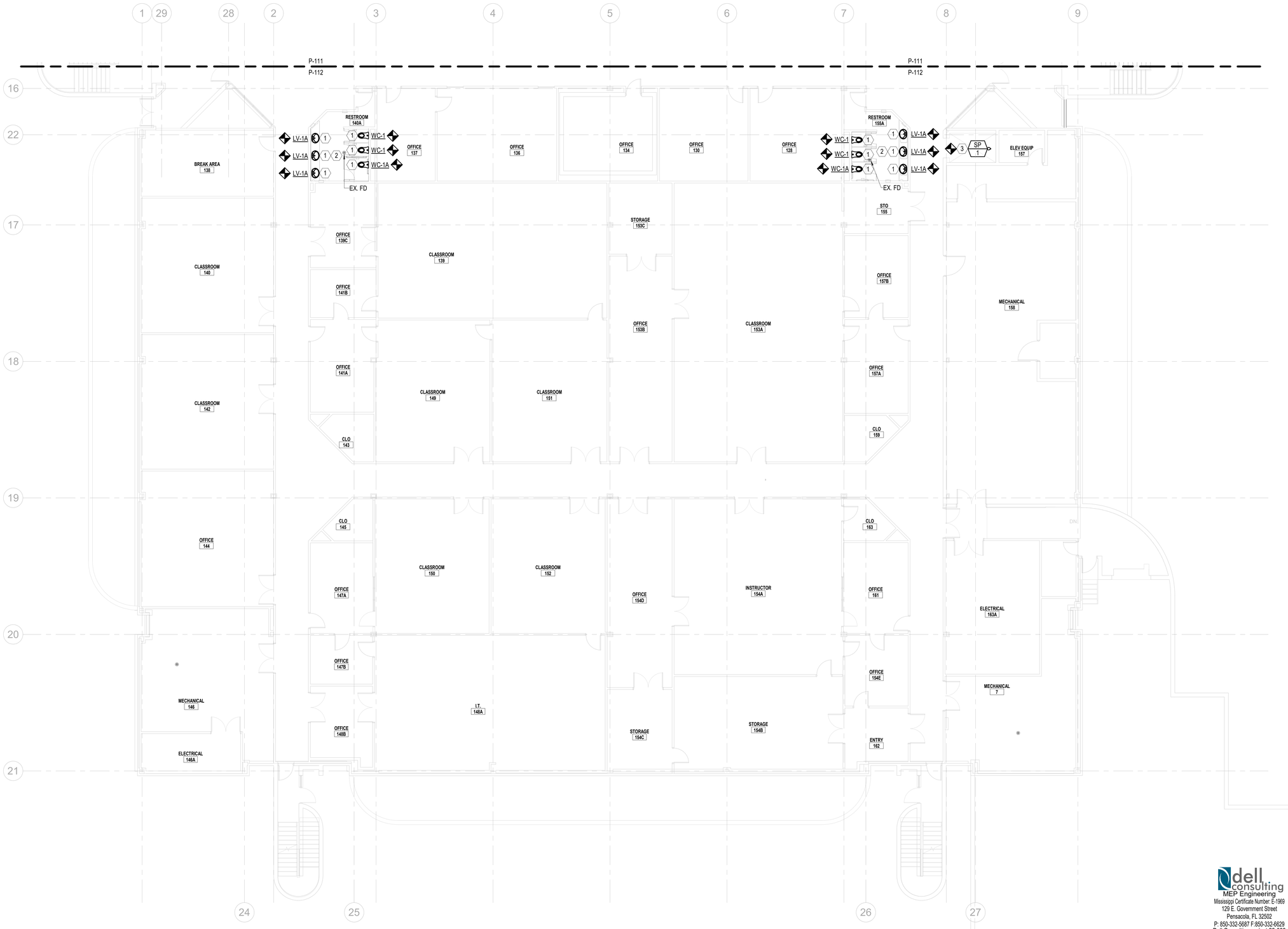
Dell Consulting project:22-083

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

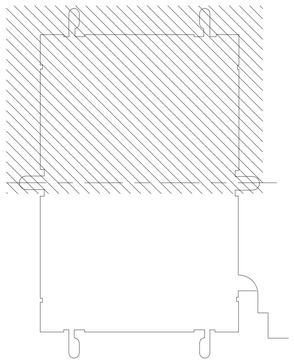
SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Chief of Engineering) G. REED
DRAWN: JGT
PROJECT NUMBER: MAHG 171-095
SHEET NAME: 1ST FLOOR NORTH - PLUMBING
CHECKED: JAM
DATE: 02/2024
FACILITY NUMBER: B1002
DRAWING NUMBER: P-111
SHEET 53 OF 74



1 P-112 1ST FLOOR SOUTH - PLUMBING
1/8" = 1'-0"

SHEET NOTES

#	
1	INSTALL NEW FIXTURE ACCORDING TO DESIGN GUIDELINES AND SPECIFICATIONS. MODIFY EXISTING PIPING AS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
2	PROVIDE NEW ABOVE SLAB TRAP PRIMER AT LAVATORY. REUSE EXISTING UNDERFLOOR PIPING AND CONNECT TO EXISTING FLOOR DRAIN.
3	INSTALL NEW SUMP PUMP ACCORDING TO MANUFACTURER'S DESIGN GUIDELINES AND SPECIFICATIONS. CONNECT TO EXISTING SUMP PUMP DISCHARGE PIPING. OFFSET AND TRANSITION AS REQUIRED.



KEY PLAN - SOUTH
NOT TO SCALE

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Telephone: 228.594.2323
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DELL CONSULTING, LLC

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ENGINEER
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Jason A. Matiacio 30457

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — MISSISSIPPI
OFFICE OF CIVIL ENGINEERS

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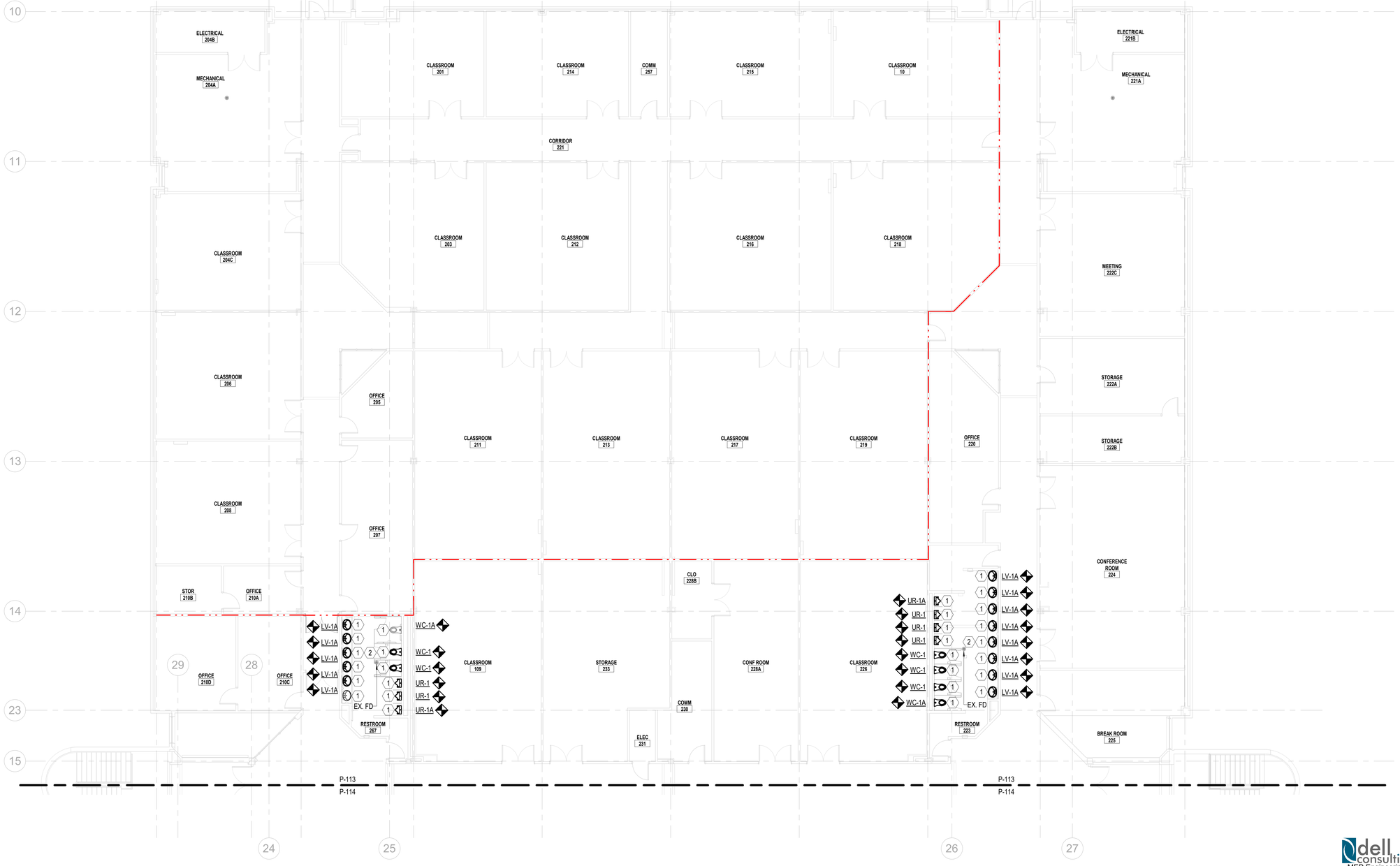
Dell Consulting project:22-083

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

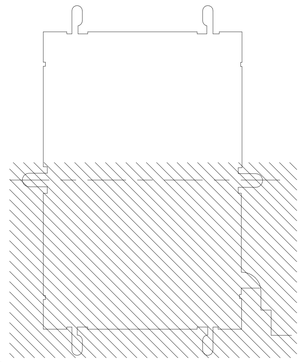
SUBMITTED: (Chief of Controcts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: JGT	PROJECT NUMBER: MAHG 17-105	SHEET NAME: 1ST FLOOR SOUTH - PLUMBING	DRAWING NUMBER: P-112
CHECKED: JAM	DATE: 02/20/24		SHEET 54 OF 74



1 P-113 2ND FLOOR NORTH - PLUMBING
1/8" = 1'-0"

SHEET NOTES

#	
1	INSTALL NEW FIXTURE ACCORDING TO DESIGN GUIDELINES AND SPECIFICATIONS. MODIFY EXISTING PIPING AS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
2	PROVIDE NEW ABOVE SLAB TRAP PRIMER AT LAVATORY. REUSE EXISTING UNDERFLOOR PIPING AND CONNECT TO EXISTING FLOOR DRAIN.



KEY PLAN - NORTH
NOT TO SCALE

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BILOXI, MS 39532
Telephone: 228.594.2323
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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

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LICENSED PROFESSIONAL ENGINEER
2/14/2024
30457
STATE OF MISSISSIPPI
Jason A. Matiacio 30457

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

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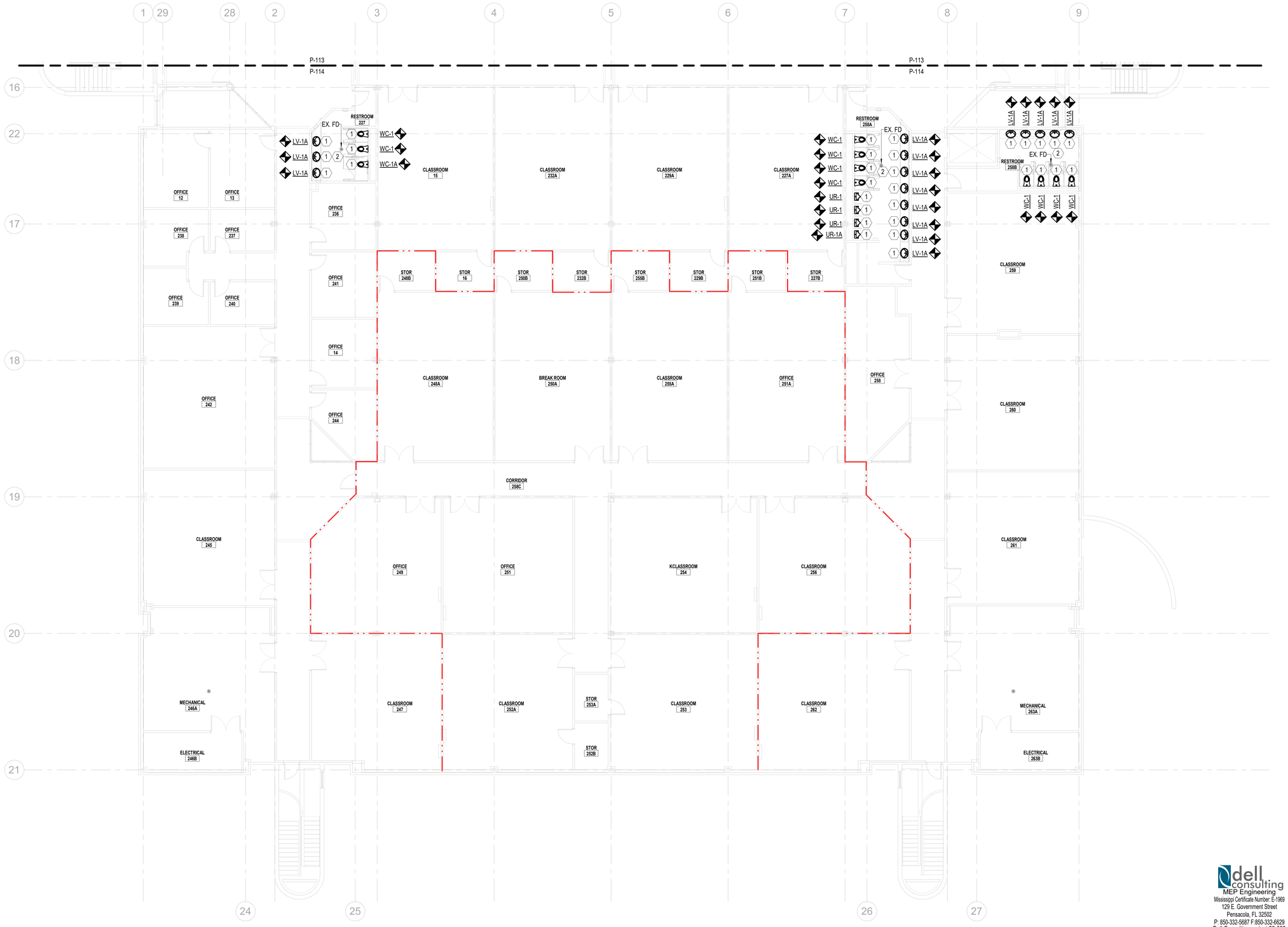
MEP Engineering
Mississippi Certificate Number: E-1969
129 E. Government Street
Pensacola, FL 32502
P: 850-332-5687 F:850-332-6629
Dell Consulting project:22-083

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: JDT	PROJECT NUMBER: MAHG 171095	SHEET NAME: 2ND FLOOR NORTH - PLUMBING	DRAWING NUMBER: P-113
CHECKED: JAM	DATE: 02/20/24		SHEET 55 OF 74



1 P114 2ND FLOOR SOUTH - PLUMBING
1/8" = 1'-0"

SHEET NOTES

#	
1	INSTALL NEW FIXTURE ACCORDING TO DESIGN GUIDELINES AND SPECIFICATIONS. MODIFY EXISTING PIPING AS NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
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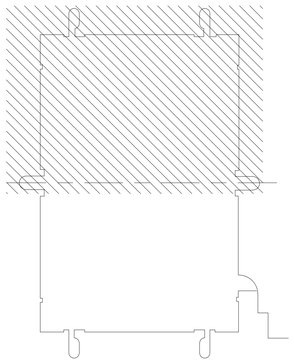

KEY PLAN - SOUTH
NOT TO SCALE

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Mississippi Certificate Number E-1969
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Pensacola, FL 32502
P: 850-332-5687 F:850-332-6629
Dell Consulting project:22-083

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

ARCHITECT
EGH ARCHITECTS
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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

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LICENSED PROFESSIONAL ENGINEER
2/9/2024
30457
STATE OF MISSISSIPPI
Jason A. Matiacio 30457

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MS39540PPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: JCT — PROJECT NUMBER: MAHG 171095	SHEET NAME: 2ND FLOOR SOUTH - PLUMBING	DRAWING NUMBER: P-114
CHECKED: JAM — DATE: 02/2024		SHEET 56 OF 74

PANELBOARD NOMENCLATURE

THE FOLLOWING APPLIES TO SWITCHBOARD AND PANELBOARD TAGS FOUND IN THESE DRAWINGS:

2P2C

- FIRST VALUE INDICATES VOLTAGE:
  - 2 = 208/120V
  - 4 = 480/277V
- THIRD VALUE INDICATES BUILDING FLOOR LOCATION
  - 1 = FIRST FLOOR
  - 2 = SECOND FLOOR
- FOURTH VALUE INDICATES INDEX FOR MORE THAN ONE TYPE OF PANEL PER FLOOR:
  - A = 1ST PANEL
  - B = 2ND PANEL
- SECOND VALUE INDICATES TYPE OF LOADS SERVED:
  - L = LIGHTING
  - M = MECHANICAL EQUIPMENT
  - C = COMPUTER EQUIPMENT
  - K = KITCHEN EQUIPMENT
  - D = DISTRIBUTION
  - P = GENERAL POWER
  - R = RESEARCH OR LAB
  - E = EMERGENCY (NEC ARTICLE 700)
  - O = OPTIONAL STANDBY (NEC ARTICLE 702)

TRANSFORMER NOMENCLATURE

THE FOLLOWING APPLIES TO TRANSFORMER TAGS FOUND IN THESE DRAWINGS:

TP2C

- FIRST VALUE IS "T" FOR TRANSFORMER.
- THE REMAINING CHARACTERS ARE THE DOWNSTREAM PANEL NAME MINUS THE FIRST LETTER. FOR EXAMPLE, THIS TAG IS FOR THE TRANSFORMER THAT SERVES PANEL 2P2C

ELECTRICAL LEGEND

GENERAL ELECTRICAL DEVICES:

$ SINGLE POLE LIGHTING SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE

DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS:
G - GROUND FAULT CIRCUIT INTERRUPTER TYPE.

DISTRIBUTION & POWER EQUIPMENT:

PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.

DISTRIBUTION PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.

SWITCHBOARD, SWITCHGEAR OR MCC. MOUNT ON CONCRETE HOUSEKEEPING PAD AS INDICATED. SEE PANELBOARD SCHEDULES.

NEC 110.26(A) WORKING CLEARANCE.

VFD VARIABLE FREQUENCY DRIVE W/INTEGRAL DISCONNECT. PROVIDED BY DIVISION 15, INSTALLED BY DIVISION 16.

NON-FUSED HEAVY DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.

T FLOOR MOUNTED TRANSFORMER WITH CONCRETE HOUSEKEEPING PAD. SEE TRANSFORMER SCHEDULE FOR SIZE AND TYPE.

T TRANSFORMER. MOUNT AS INDICATED. SEE XFMR SCHEDULE FOR SIZE AND TYPE.

MISCELLANEOUS EQUIPMENT:

G MOTOR FURNISHED BY OTHERS.

COPPER GROUNDING BUSBAR WITH STANDOFF INSULATORS. UNLESS INDICATED OTHERWISE PROVIDE WITH #6AWG IN EMT FROM BUSBAR TO EMGB. MOUNT BUSBAR 12" AFF.

E ELECTRICAL CONNECTION TO EQUIPMENT. VERIFY LOCATION WITH EQUIPMENT PROVIDER.

FIRE ALARM SYSTEM:

D FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC DUCT MOUNTED SAMPLE TUBE TYPE SMOKE DETECTOR. PROVIDED BY DIV. 26, INSTALLED BY DIV. 25 AND CONNECTED BY DIV. 26.

R FIRE ALARM SYSTEM ADDRESSABLE AIR HANDLING UNIT SHUT-DOWN RELAY (UNLESS NOTED OTHERWISE). PROVIDE WITH POWER RELAY WHERE REQUIRED.

E FIRE ALARM SYSTEM ADDRESSABLE CONTROL DEVICE FOR ELEVATOR RECALL/CAPTURE AND SHUNT TRIPPING AS REQUIRED BY CODE/FIRE MARSHAL. PROVIDE AS REQUIRED FOR "DESIGNATED" AND "ALTERNATE" FLOORS. ALSO INCLUDE ALL WORK REQUIRED TO SUPERVISE THE SHUNT TRIP CKT.

FACP MULTIPLEXED ADDRESSABLE FIRE ALARM CONTROL PANEL. BATTERY SUPPLIES TO BE MOUNTED WITH FACP. REMOTE BOOSTER TYPE BATTERY POWER SUPPLIES WILL NOT BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS. FIELD VERIFY EXACT MOUNTING LOCATION.

OTHER:

CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.

CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND.

2P2-9 HOMERUN TO PANELBOARD. ANY CIRCUIT WITHOUT FURTHER DESIGNATION SHALL BE 2#12,#12G,1/2"C. TICK MARKS INDICATE # OF CONDUCTORS (EGC NOT INCLUDED). MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 50 FEET SHALL BE #10 AWG. MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 100 FEET SHALL BE #8 AWG. MINIMUM SIZE ON 277V HOMERUNS GREATER THAN 100 FEET SHALL BE #10 AWG. INCREASE CONDUIT SIZE AS REQUIRED PER NEC. UNDERLINED TEXT INDICATES CIRCUIT DESIGNATION.

AHU 1 MECHANICAL EQUIPMENT IDENTIFICATION TAG. SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.

FD3H LIGHT FIXTURE IDENTIFICATION TAG. SEE LIGHT FIXTURE SCHEDULE FOR SYMBOLS & DETAILS.

1 SHEET NOTE TAG.

4LP1 PANELBOARD, SWITCHBOARD, TRANSFORMER & ELECTRICAL EQUIPMENT IDENTIFICATION TAG.

1084 ROOM NUMBER TAG.

LEADERS.

SOUND MASKING SYSTEM:

D SOUND MASKING DUCT TRANSDUCER.

SMS SOUND MASKING SYSTEM HEAD END.

ABBREVIATIONS

A	AMPS
AC	ABOVE COUNTER
AF	AMP FRAME
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ARCH	ARCHITECT OR ARCHITECTURAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
ATU	AIR TERMINAL UNIT
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BJ	BONDING JUMPER
BKR	CIRCUIT BREAKER
BLDG	BUILDING
BOD	BASIS OF DESIGN
C	CONDUIT
C/B	CIRCUIT BREAKER
CL	CURRENT LIMITING
C/L	CENTERLINE
CLG	CEILING
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DDC	DIRECT DIGITAL CONTROL
DEMO	DEMOLISH
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
EF	ENTRANCE FACILITY
EGC	EQUIPMENT GROUNDING CONDUCTOR
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR
EWC	ELECTRIC WATER COOLER
EX	EXISTING TO REMAIN
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
FMC	FLEXIBLE METAL CONDUIT
FACP	FIRE ALARM SYSTEM CONTROL PANEL
FU	FUSE
F/A	FIRE ALARM
FLA	FULL LOAD AMPS
FLR	FLOOR
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT)
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GOVERNMENT FURNISHED, CONTRACTOR INSTALLED OR GROUND FAULT INTERRUPTER
GFGI	GOVERNMENT FURNISHED, GOVERNMENT INSTALLED
GND	GROUND
HH	HANDHOLE
HOA	HAND-OFF-AUTOMATIC
HP	HEAT PUMP OR HORSEPOWER
HVAC	HEATING, VENTILATION, & AIR-CONDITIONING
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
k	KILO
kAIC	KILO-AMPERE INTERRUPTING CAPABILITY
kCMIL	THOUSAND CIRCULAR MILS
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCE	MAIN COMMUNICATIONS EQUIPMENT ROOM
MCM	THOUSAND CIRCULAR MILS
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MNT	MOUNTING HEIGHT
MTG	MOUNTING
MV	MEDIUM VOLTAGE
N1	NEMA 1
N3R	NEMA 3R
N/A	NOT APPLICABLE
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NESC	NATIONAL ELECTRICAL SAFETY CODE
NEU	NEUTRAL
OCPD	OVERCURRENT PROTECTION DEVICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
OHP	OVERHEAD PRIMARY
OHS	OVERHEAD SECONDARY
PBD	PANELBOARD
PF	POWER FACTOR
PNL	PANELBOARD
PT	POTENTIAL TRANSFORMER
PWR	POWER
RCPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RGS	RIGID GALVANIZED STEEL CONDUIT
RNC	RIGID NON-METALLIC CONDUIT
RVSS	REDUCED VOLTAGE SOLID STATE
SA	SURGE ARRESTER
SCA	SHORT CIRCUIT AMPS
SF	SUPPLY FAN
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TR	TELECOMMUNICATIONS ROOM
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TYP	TYPICAL
UFR	UNDERFLOOR RACEWAY
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGP	UNDERGROUND PRIMARY
UGS	UNDERGROUND SECONDARY
UL	UNDERWRITERS' LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERES
VAR	VOLT-AMPERES REACTIVE
VAV	VARIABLE AIR VOLUME UNIT
W	WATTS
WP	WEATHERPROOF
WSR	WITHSTAND RATING
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
ϕ	PHASE
72°	DEGREES
Δ	DELTA
Ω	OHMS

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Harold Lynn Dell, Jr. 31887

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

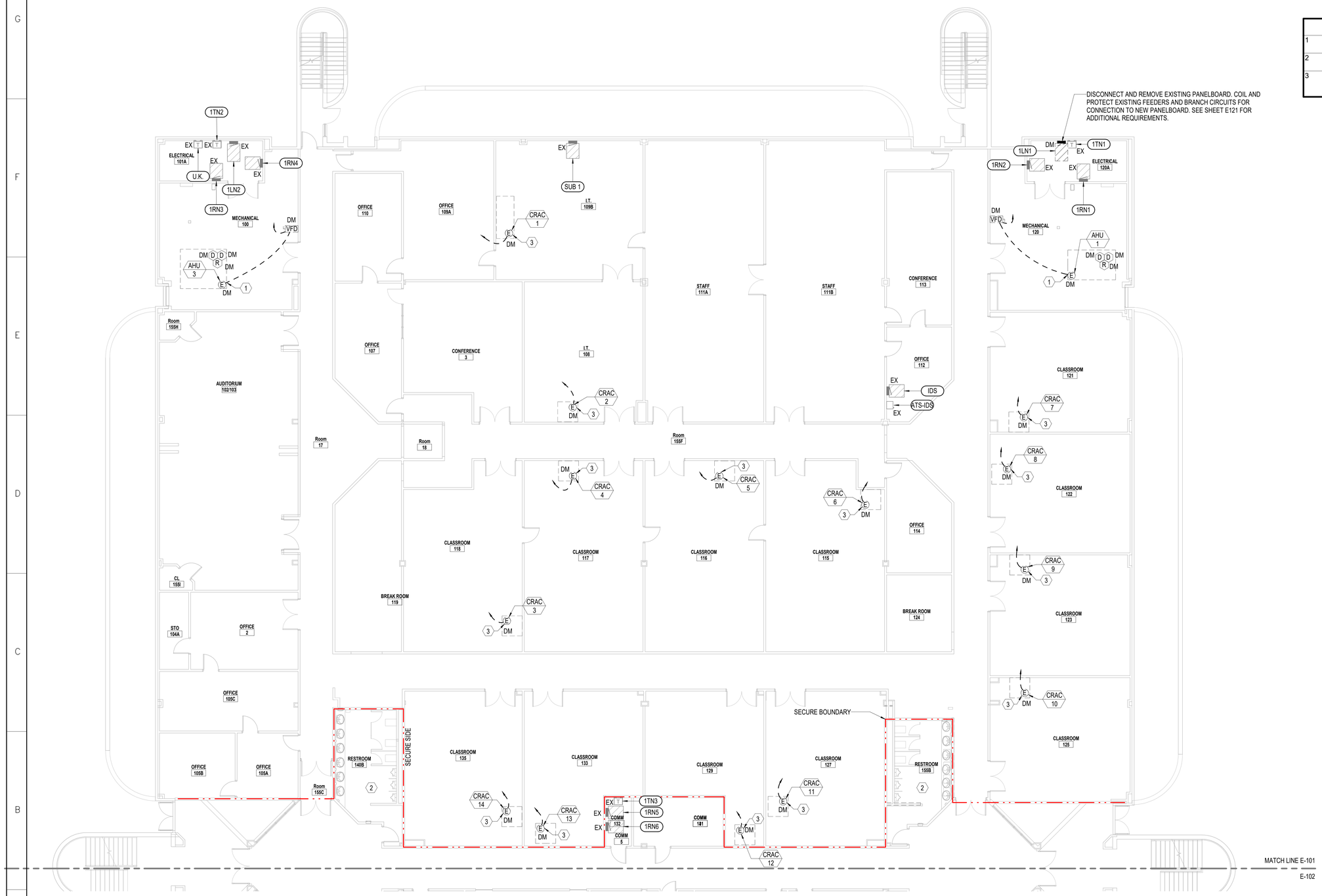
SUBMITTED: (Chief of Controcts Design)	RECOMMENDED: (Chief ofEngineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG / PROJECT NUMBER: MAHG 17-1095	SHEET NAME: LEGEND, NOTES & ABBREVIATIONS	DRAWING NUMBER: E-001
CHECKED: HLD / DATE: 02/20/24		SHEET 57 OF 74

GENERAL NOTES

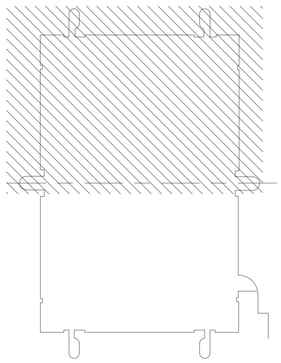
1.	COORDINATE ALL POWER OUTAGES WITH GOVERNMENT 14 DAYS PRIOR TO COMMENCING WORK.

SHEET NOTES

1	DISCONNECT AND REMOVE EXISTING MECHANICAL BRANCH CIRCUIT, CONDUIT, DISCONNECT, DEVICES, ETC. BACK TO SOURCE.
2	SECURE, SUPPORT AND PROTECT EXISTING LIGHT FIXTURES DURING CEILING DEMOLITION. REINSTALL EXISTING FIXTURES IN NEW CEILING.
3	DISCONNECT AND REMOVE EXISTING MECHANICAL BRANCH CIRCUIT, DISCONNECT, DEVICES, ETC. BACK TO SOURCE. CONDUIT TO REMAIN AND BE REUSED.



1 1ST FLOOR NORTH - DEMOLITION
1/8" = 1'-0"



KEY PLAN - NORTH
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MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)		RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 1ST FLOOR NORTH - DEMOLITION	DRAWING NUMBER: E-101
CHECKED: HLD	DATE: 02/20/24		SHEET 58 OF 74

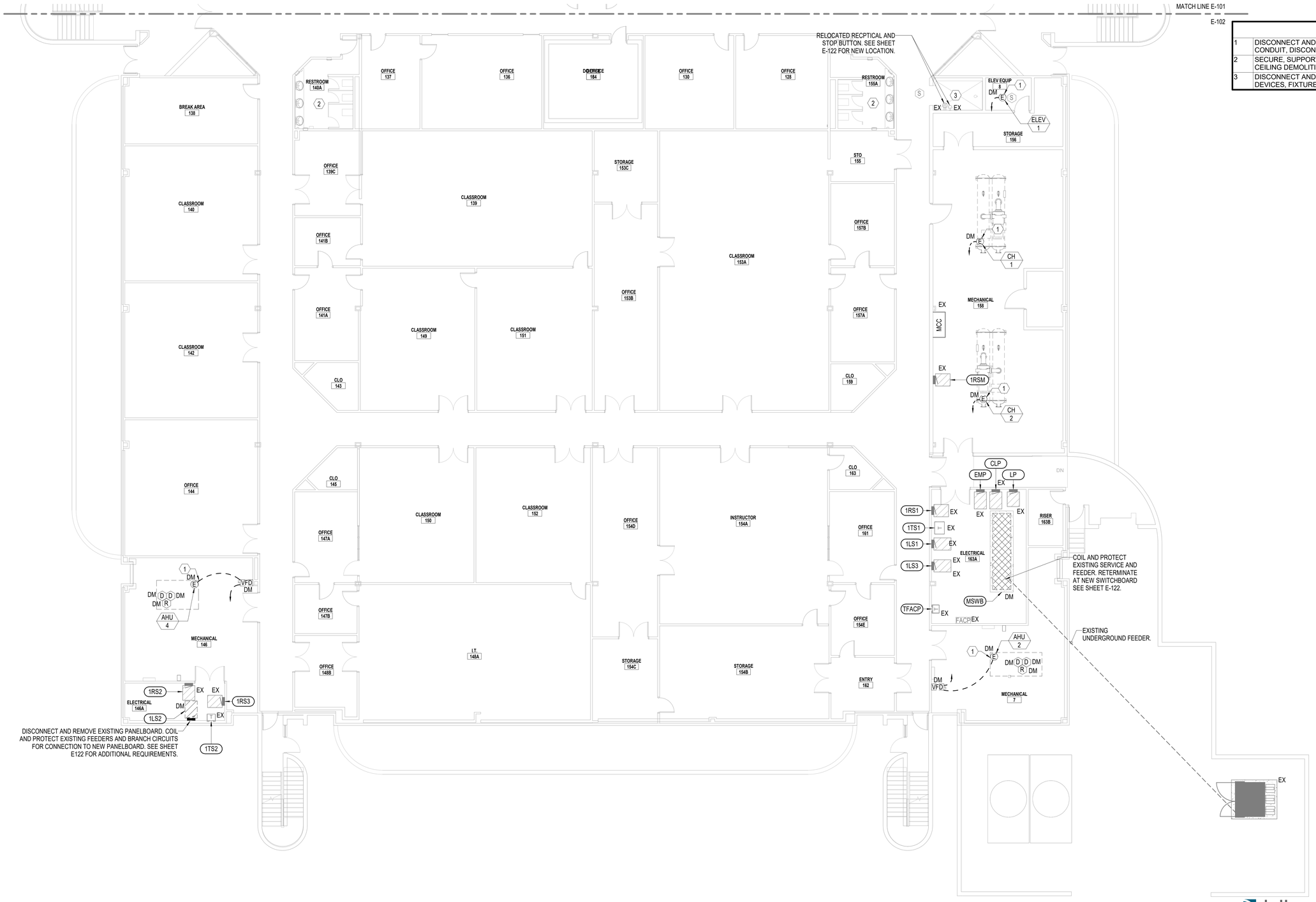
NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

GENERAL NOTES

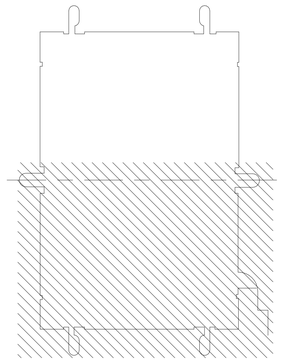
1. COORDINATE ALL POWER OUTAGES WITH GOVERNMENT 14 DAYS PRIOR TO COMMENCING WORK.

SHEET NOTES

1. DISCONNECT AND REMOVE EXISTING MECHANICAL BRANCH CIRCUIT, CONDUIT, DISCONNECT, DEVICES, ETC. BACK TO SOURCE.
2. SECURE, SUPPORT AND PROTECT EXISTING LIGHT FIXTURES DURING CEILING DEMOLITION. REINSTALL EXISTING FIXTURES IN NEW CEILING.
3. DISCONNECT AND REMOVE ALL EXISTING LIGHTING CIRCUITS, CONDUITS, DEVICES, FIXTURES, ETC SERVING SPACE.



1 E-102 1ST FLOOR SOUTH - DEMOLITION
1/8" = 1'-0"



KEY PLAN - SOUTH
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MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 1ST FLOOR SOUTH - DEMOLITION	DRAWING NUMBER: E-102
CHECKED: HLD	DATE: 02/20/24	SHEET 59 OF 74

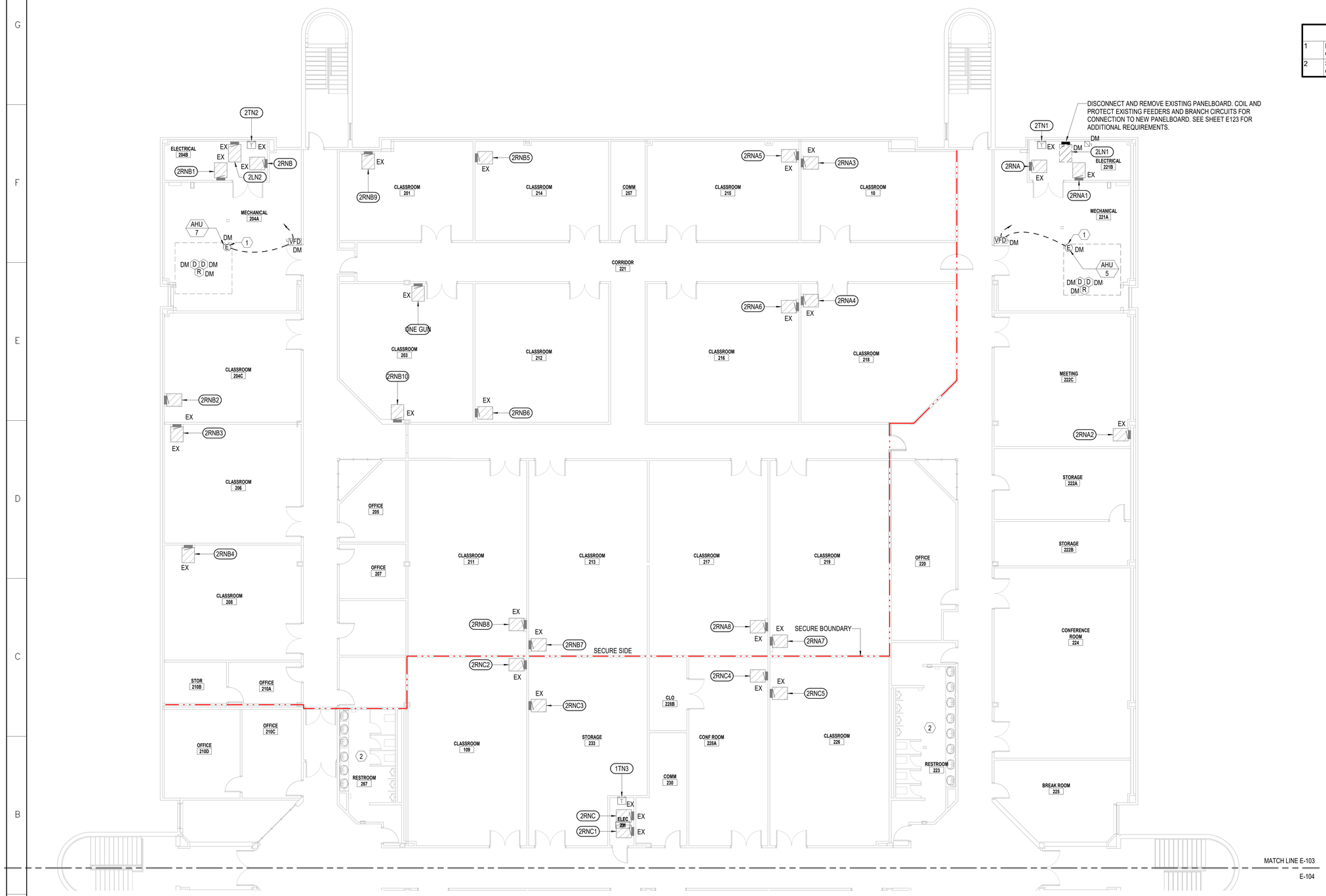
NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

GENERAL NOTES

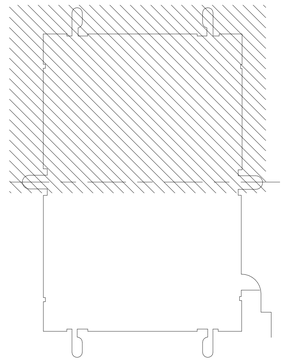
1. COORDINATE ALL POWER OUTAGES WITH GOVERNMENT 14 DAYS PRIOR TO COMMENCING WORK.

SHEET NOTES

1. DISCONNECT AND REMOVE EXISTING MECHANICAL BRANCH CIRCUIT, CONDUIT, DISCONNECT, DEVICES, ETC. BACK TO SOURCE.
2. SECURE, SUPPORT AND PROTECT EXISTING LIGHT FIXTURES DURING CEILING DEMOLITION. REINSTALL EXISTING FIXTURES IN NEW CEILING.



1 2ND FLOOR NORTH - DEMOLITION
E-103
1/8" = 1'-0"



KEY PLAN - NORTH
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NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

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MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 2ND FLOOR NORTH - DEMOLITION
CHECKED: HLD	DATE: 02/20/24	DRAWING NUMBER: E-103
		SHEET 60 OF 74

GENERAL NOTES

1. COORDINATE ALL POWER OUTAGES WITH GOVERNMENT 14 DAYS PRIOR TO COMMENCING WORK.

SHEET NOTES

1. DISCONNECT AND REMOVE EXISTING MECHANICAL BRANCH CIRCUIT, CONDUIT, DISCONNECT, DEVICES, ETC. BACK TO SOURCE.
2. SECURE, SUPPORT AND PROTECT EXISTING LIGHT FIXTURES DURING CEILING DEMOLITION. REINSTALL EXISTING FIXTURES IN NEW CEILING.

1 2ND FLOOR SOUTH - DEMOLITION
1/8" = 1'-0"

KEY PLAN - SOUTH
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NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

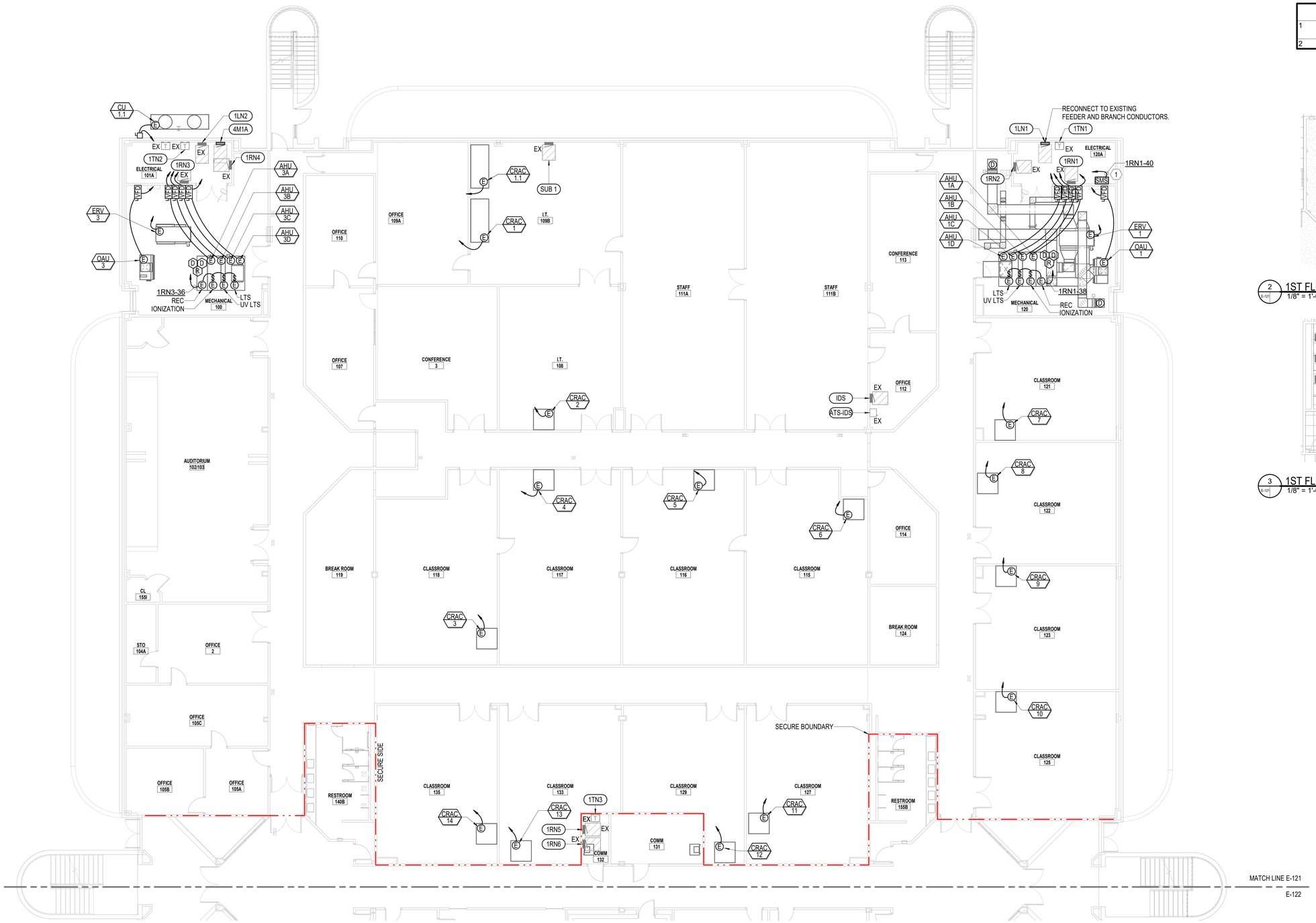
SUBMITTED: (Chief of Contracts Design)		RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 2ND FLOOR SOUTH - DEMOLITION	DRAWING NUMBER: E-104
CHECKED: HLD	DATE: 02/20/24		SHEET 61 OF 74

GENERAL NOTES

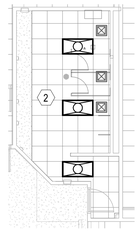
1.	COORDINATE ALL POWER OUTAGES WITH GOVERNMENT 14 DAYS PRIOR TO COMMENCING WORK.

SHEET NOTES

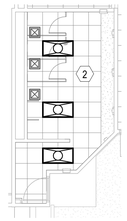
1	SOUND MASKING PANEL DEDICATED TO THE FIRST FLOOR SECURE AREA BOUNDARY. SEE SOUND MASKING SYSTEM RISER DIAGRAM, SHEET E-502.
2	REINSTALLED LIGHT FIXTURE IN NEW CEILING.



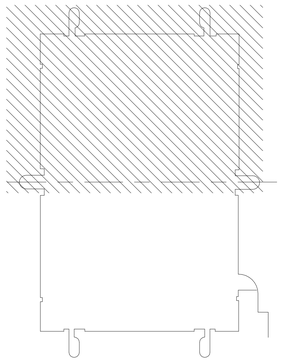
1 E-121 1ST FLOOR NORTH - POWER
1/8" = 1'-0"



2 E-121 1ST FLOOR NORTH ROOM 140B - LIGHTING
1/8" = 1'-0"



3 E-121 1ST FLOOR NORTH ROOM 155B - LIGHTING
1/8" = 1'-0"



KEY PLAN - NORTH
NOT TO SCALE

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

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MAHG 171095 REPAIR
STENNIS HALL

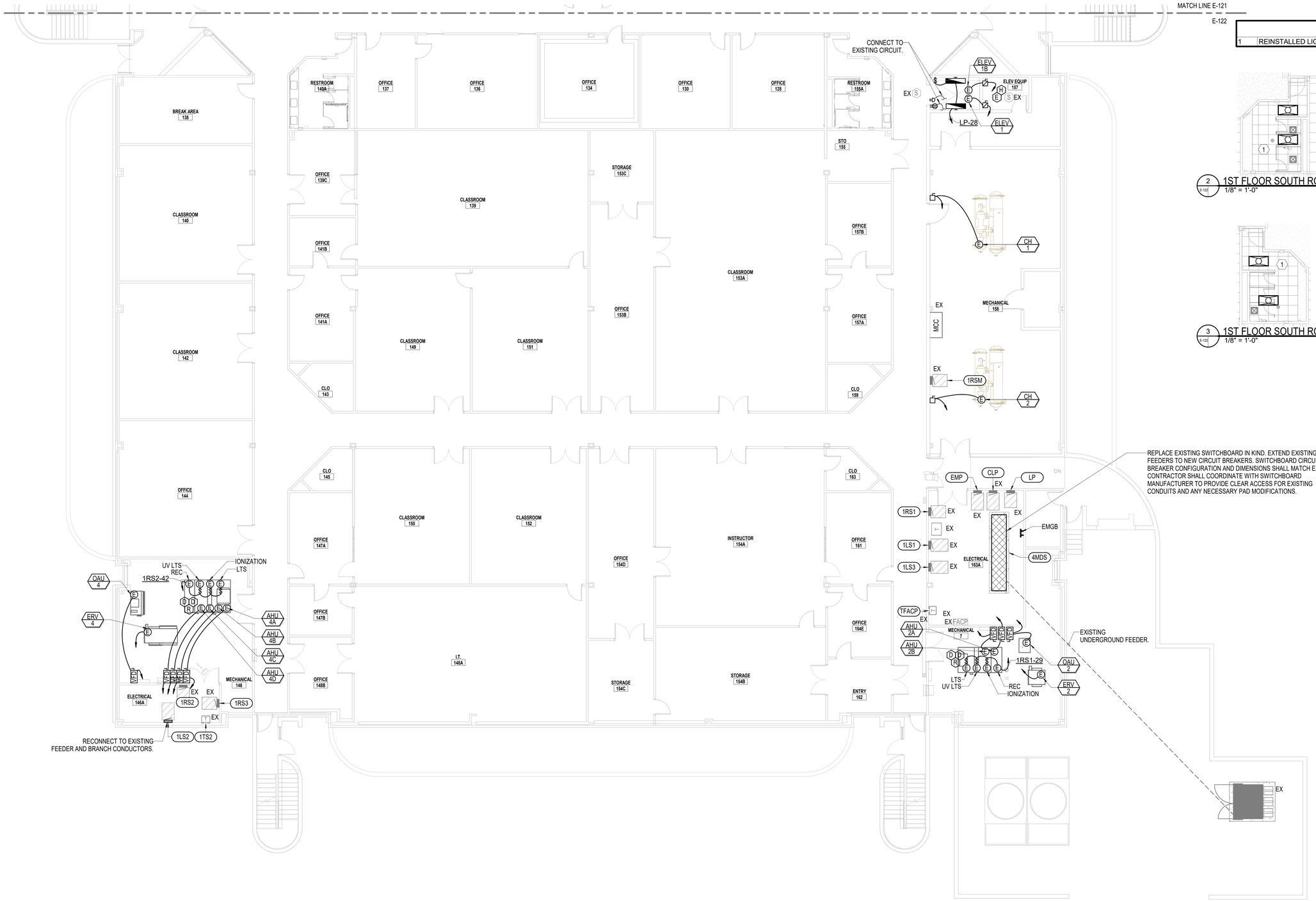
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG / PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 1ST FLOOR NORTH - POWER & FIRE ALARM	DRAWING NUMBER: E-121
CHECKED: HLD / DATE: 02/20/24		SHEET 62 OF 74

GENERAL NOTES

1. COORDINATE ALL POWER OUTAGES WITH GOVERNMENT 14 DAYS PRIOR TO COMMENCING WORK.

SHEET NOTES

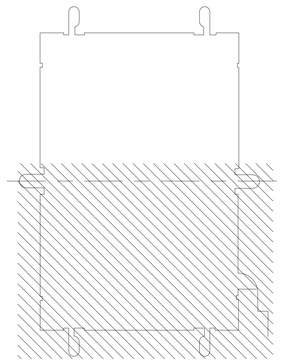
1. REINSTALLED LIGHT FIXTURE IN NEW CEILING.



1 1ST FLOOR SOUTH - POWER
1/8" = 1'-0"

2 1ST FLOOR SOUTH ROOM 140A - LIGHTING
1/8" = 1'-0"

3 1ST FLOOR SOUTH ROOM 155A - LIGHTING
1/8" = 1'-0"



KEY PLAN - SOUTH
NOT TO SCALE

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

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UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

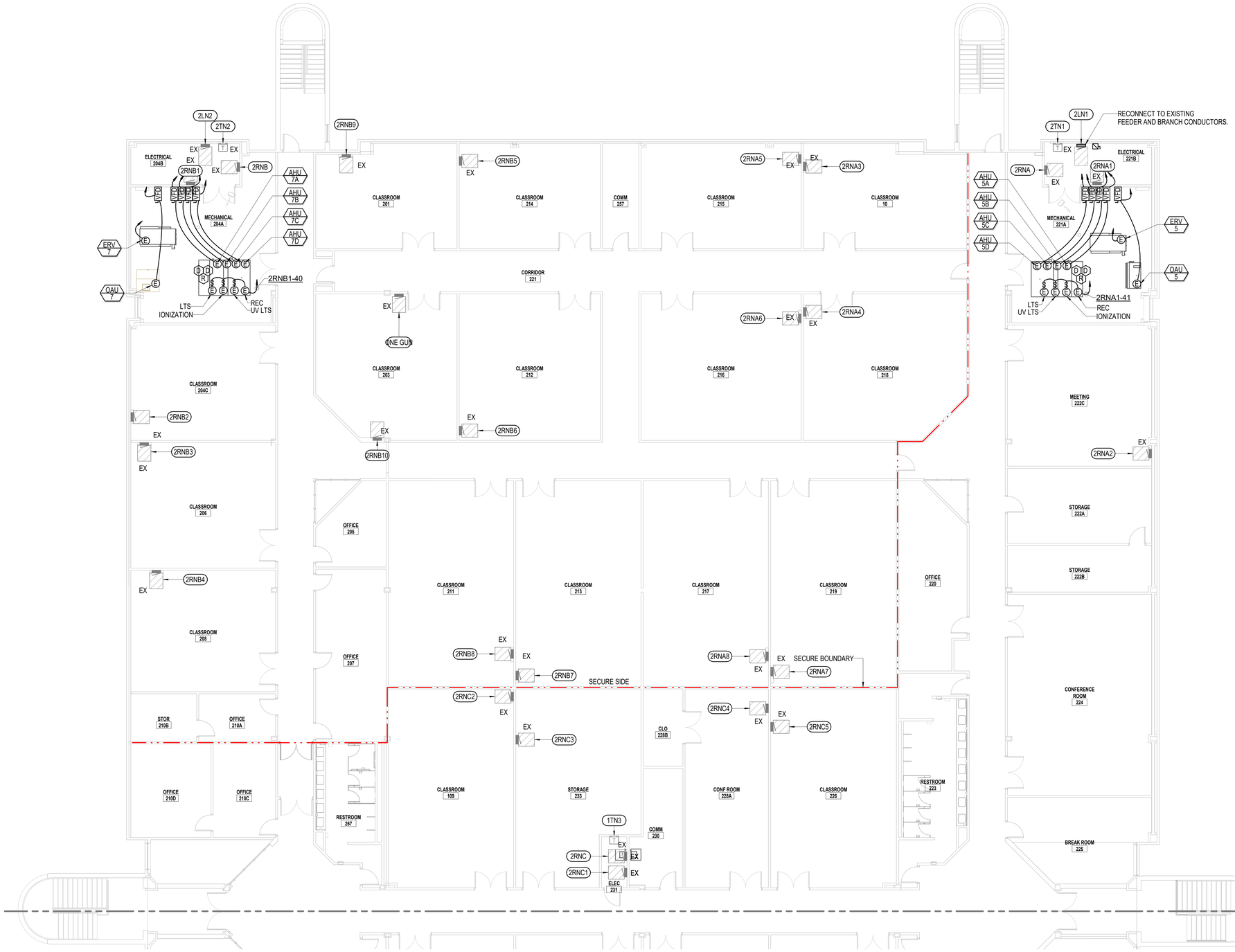
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 1ST FLOOR SOUTH - POWER & FIRE ALARM	DRAWING NUMBER: E-122
CHECKED: HLD	DATE: 02/20/24		SHEET 63 OF 74

GENERAL NOTES

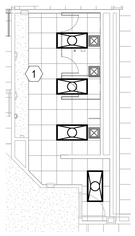
1. COORDINATE ALL POWER OUTAGES WITH GOVERNMENT 14 DAYS PRIOR TO COMMENCING WORK.

SHEET NOTES

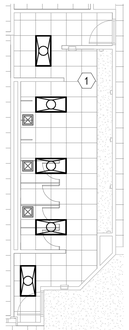
1. REINSTALLED LIGHT FIXTURE IN NEW CEILING.



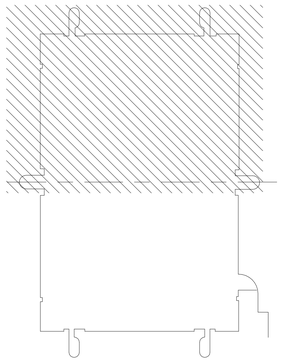
1 E-123 2ND FLOOR NORTH - POWER
1/8" = 1'-0"



2 E-123 2ND FLOOR NORTH ROOM 267 - LIGHTING
1/8" = 1'-0"



3 E-123 2ND FLOOR NORTH ROOM 223 - LIGHTING
1/8" = 1'-0"



KEY PLAN - NORTH
NOT TO SCALE

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

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Dell Consulting project:22-083

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FIRE PROTECTION ENGINEERING:
I.C. THOMASSON & ASSOCIATES, INC.
MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP
HAROLD LYNN DELL, JR. LICENSED PROFESSIONAL ENGINEER 31887 02-19-2024 STATE OF MISSISSIPPI
Harold Lynn Dell, Jr. 31887

REVISION	DATE		DRAWN	APPROVED

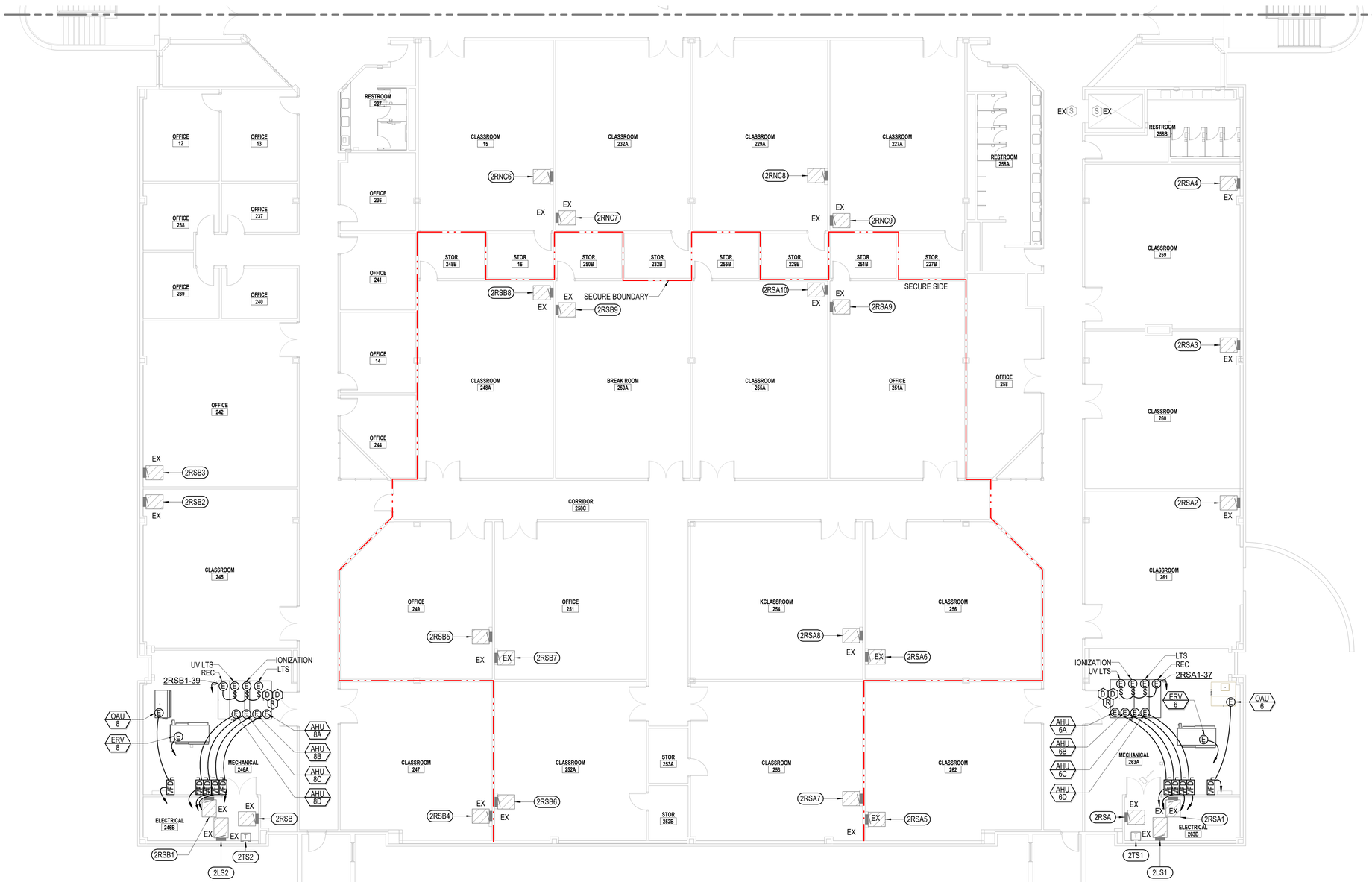
UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

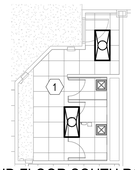
SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 2ND FLOOR NORTH - POWER & FIRE ALARM	DRAWING NUMBER: E-123
CHECKED: HLD	DATE: 02/20/24	SHEET 64 OF 74

GENERAL NOTES

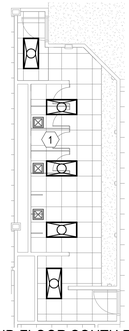
1. COORDINATE ALL POWER OUTAGES WITH GOVERNMENT 14 DAYS PRIOR TO COMMENCING WORK.



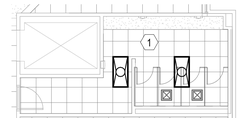
1 E-124 2ND FLOOR SOUTH - POWER
1/8" = 1'-0"



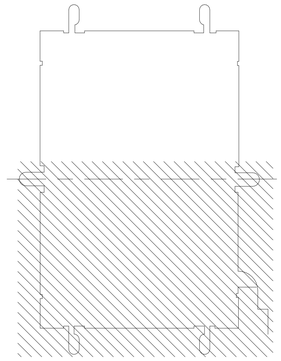
2 E-124 2ND FLOOR SOUTH ROOM 227 - LIGHTING
1/8" = 1'-0"



3 E-124 2ND FLOOR SOUTH ROOM 258A - LIGHTING
1/8" = 1'-0"



4 E-124 2ND FLOOR SOUTH ROOM 258B - LIGHTING
1/8" = 1'-0"



KEY PLAN - SOUTH
NOT TO SCALE

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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
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Harold Lynn Dell, Jr. 31887

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE, BILOXI, MISSISSIPPI — OFFICE OF CIVIL ENGINEER — AIR EDUCATION AND TRAINING COMMAND

MAHG 171095 REPAIR STENNIS HALL

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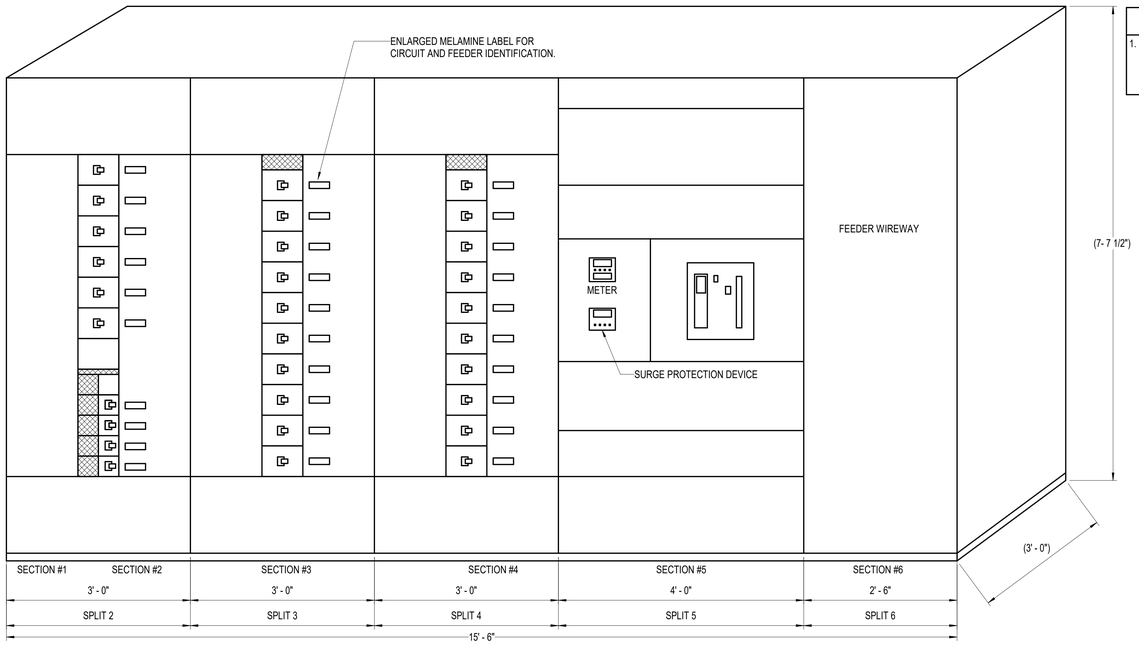
Dell Consulting project:22-083

NORTH
8' 0' 8' 16'
SCALE: 1/8"=1'-0"

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG / PROJECT NUMBER: MAHG 17-1095	SHEET NAME: 2ND FLOOR SOUTH - POWER & FIRE ALARM	DRAWING NUMBER: E-124
CHECKED: HLD / DATE: 02/20/24		SHEET 65 OF 74



NOTE: SEE MAIN SWITCHBOARD SCHEDULE FOR LOAD DESCRIPTIONS AND REQUIREMENTS. CONFIRM OCPD REQUIREMENTS WITH EXISTING EQUIPMENT.

1 E-201 MSWB ISOMETRIC DETAIL
1" = 1'-0"

GENERAL NOTES

1. CONFIRM FINAL SWITCHBOARD DIMENSIONS PRIOR TO SUBMITTING EQUIPMENT. SWITCHBOARD SHALL MATCH EXISTING SWITCHBOARD FOOTPRINT TO FACILITATE EQUIPMENT REPLACEMENT. ARANGE CIRCUIT BREAKERS SUCH THAT EXISTING FEEDERS AND CIRCUITS MAY BE TERMINATED TO NEW CIRCUIT BREAKERS.

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31887
12-19-2023
STATE OF MISSISSIPPI
Harold Lynn Dell, Jr. 31887

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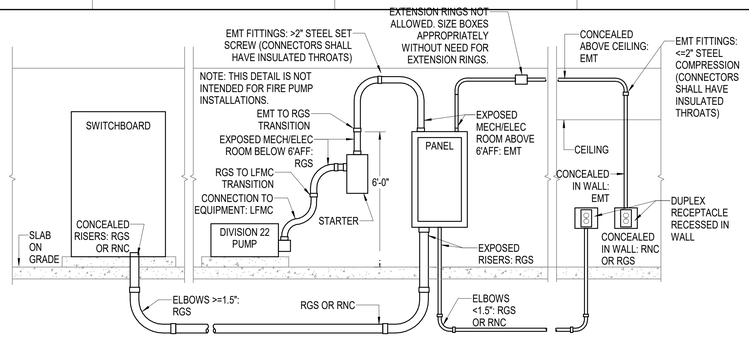
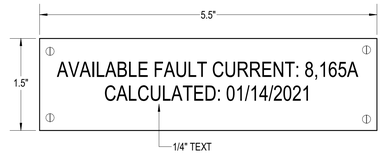
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Chief of Engineering) G. REED
FACILITY NUMBER: B1002
DRAWN: GG
PROJECT NUMBER: MAHG 17-1095
SHEET NAME: ELEVATIONS
DRAWING NUMBER: E-201
CHECKED: HLD
DATE: 02/20/24
SHEET 66 OF 74



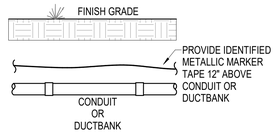
1 E-501 POWER & DISTRIBUTION RACEWAY APPLICATION DETAIL
NOT TO SCALE



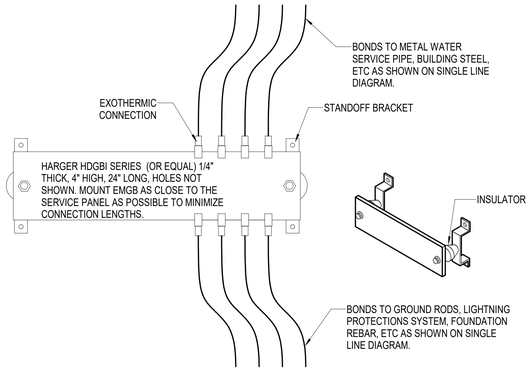
EXAMPLE PANELBOARD / SWITCHBOARD / SWITCHGEAR / MOTOR CONTROL CENTER LABEL

ENGRAVED PLASTIC TAG WITH WHITE LETTERS ON BLUE BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH 4 CHROME SCREWS (STAINLESS STEEL FOR WET OR DAMP LOCATIONS). ADHESIVE BACKING, TAPE, ETC IS NOT ALLOWED. DIMENSIONS ARE MINIMUM, TAG SHALL BE LARGER AS REQUIRED TO FIT APPROPRIATE TEXT.

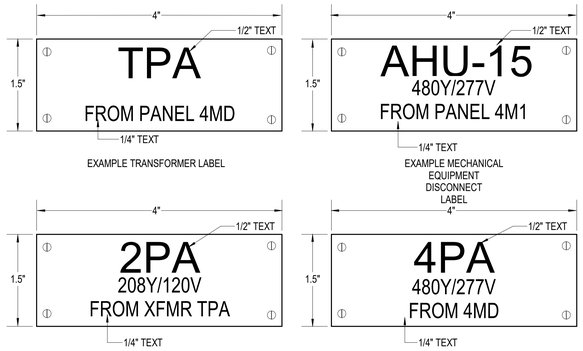
2 E-501 TYPICAL EQUIPMENT FAULT CURRENT TAG DETAIL
NOT TO SCALE



3 E-501 BURIED CONDUIT MARKER DETAIL
NOT TO SCALE

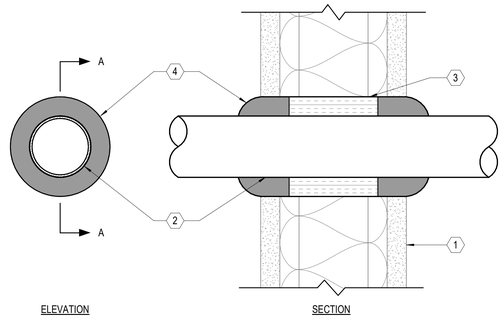


4 E-501 ELECTRICAL MAIN GROUNDING BUSBAR (EMGB) DETAIL
NOT TO SCALE



ENGRAVED PLASTIC TAG WITH BLACK LETTERS ON WHITE BACKGROUND (RED BACKGROUND FOR EMERGENCY EQUIPMENT). TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH 4 CHROME SCREWS (STAINLESS STEEL FOR WET OR DAMP LOCATIONS). ADHESIVE BACKING, TAPE, ETC IS NOT ALLOWED. DIMENSIONS ARE MINIMUM, TAG SHALL BE LARGER AS REQUIRED TO FIT APPROPRIATE TEXT.

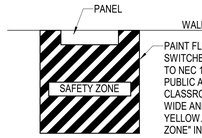
5 E-501 TYPICAL EQUIPMENT LABELING DETAIL
NOT TO SCALE



REFER TO UL DETAIL W-L-1007

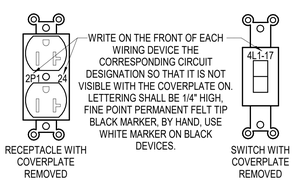
1. UL U400 DESIGN SERIES 1-HR RATED WALL BY ARCH.
2. MAX 4" EMT.
3. MINIMUM 2-7/8" THICKNESS 4 PCF MINERAL WOOL INSULATION TIGHTLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL SHALL BE RECESSED FROM BOTH SURFACES OF WALL ASREQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF MATERIAL.
4. MINIMUM 5/8" THICKNESS OF FILL SEALANT APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. APPLY ADDITIONAL SEALANT SUCH THAT A MINIMUM 1" THICK CROWN IS FORMED AROUND THE PENETRATING CONDUIT.

6 E-501 1-HR FIRE RATED WALL PENETRATION DETAIL - CONDUIT
NOT TO SCALE

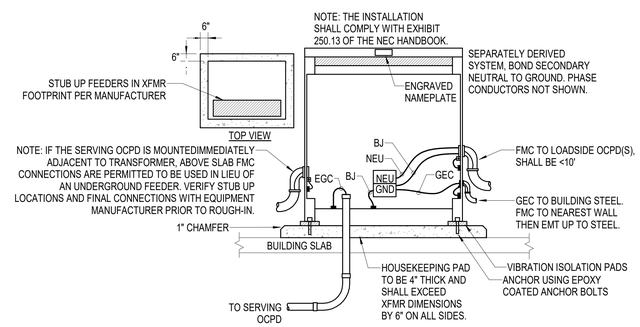


PAINT FLOOR IN FRONT OF ALL PANELS, SWITCHBOARDS, MCCs ETC PERTAINING TO NEC 110-26 EXCEPT THOSE LOCATED IN PUBLIC AREAS LIKE HALLWAYS, OFFICES, CLASSROOMS, ETC. STRIPES SHALL BE 3" WIDE AND 3" APART AND SHALL BE YELLOW. PAINT THE WORDS "SAFETY ZONE" IN CENTER OF AREA AS SHOWN.

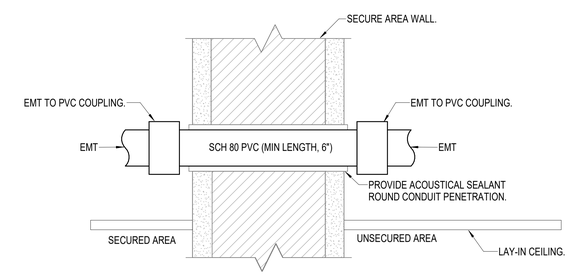
7 E-501 FLOOR MARKING DETAIL
NOT TO SCALE



8 E-501 WIRING DEVICE LABEL DETAIL
NOT TO SCALE

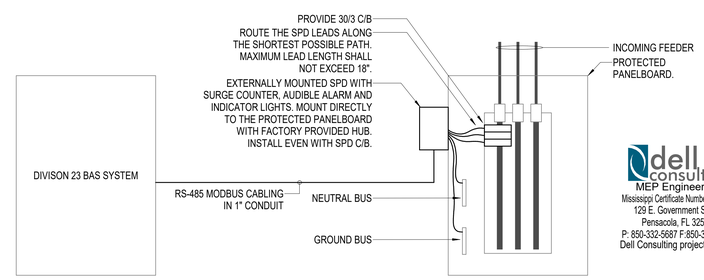


9 E-501 DRY TYPE FLOOR MOUNTED TRANSFORMER DETAIL
NOT TO SCALE



NOTE: THIS DETAIL SHALL APPLY TO ALL "SECURE WALL" PENETRATIONS.

10 E-501 DIELECTRIC BREAK DETAIL
1/8" = 1'-0"



11 E-501 PANELBOARD SURGE PROTECTION DEVICE MOUNTING DETAIL
NOT TO SCALE

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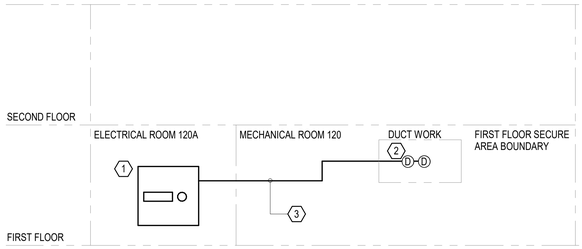
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)		RECOMMENDED: (Chief ofEngineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: DETAILS	DRAWING NUMBER: E-501
CHECKED: HLD	DATE: 02/20/24		SHEET 67 OF 74



KEY NOTES

1. 1-ZONE SOUND MASKING GENERATOR. ATLAS Z2, OR EQUAL.
2. SOUND MASKING DUCT TRANSDUCER, MOUNTED TO MECHANICAL DUCTWORK.
3. PROVIDE #16/2 TWISTED PAIR PLENUM RATED SPEAKER CABLE

GENERAL NOTES

1. THE BASIS OF DESIGN FOR THE SOUND MASKING SYSTEM IS ATLAS. THE SOUND MASKING SYSTEM SHALL BE AN DIGITAL 70V SYSTEM. THE SOUND MASKING GENERATOR SHALL SUPPORT SELECTIONS BETWEEN PINK AND WHITE NOISE. EACH INDIVIDUAL SPEAKER SHALL HAVE 5 FIELD SELECTABLE WATTAGE TAPS FROM 0.25W TO 4W TO MEET THE SOUND MASKING NEEDS OF EACH SPECIFIC AREA WITHOUT AFFECTING OTHER AREAS AND ZONES.

2. THE CONTRACTOR SHALL FURNISH AND INSTALL AN ELECTRONIC, FREQUENCY CONTROLLED SOUND MASKING SYSTEM TO ASSIST IN ACHIEVING SPEECH PRIVACY AND INTELLIGIBILITY BETWEEN SPACES.

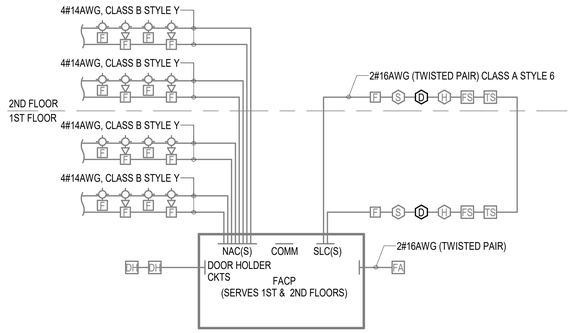
3. THE EXTENT OF THE SOUND MASKING WORK IS INDICATED ON THE DRAWINGS, BY THE REQUIREMENTS OF THESE NOTES, AND BY THE MANUFACTURER'S GUIDELINES. IT IS DEFINED TO INCLUDE, BUT NOT BE LIMITED TO, INSTALLATION AND CONFIGURATION OF A COMPLETE SOUND MASKING SYSTEM AND RELATED COMPONENTS, WIRING, SWITCHES, AND POWER SUPPLIES.

4. THE CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE SYSTEM COMPONENTS AS DESCRIBED WITHIN THESE DRAWINGS AND SPECIFICATIONS TO FORM A COMPLETE OPERATING SOUND MASKING SYSTEM AS DESCRIBED IN THE DRAWINGS HEREIN.

5. GENERAL SYSTEM OVERVIEW: THE SOUND MASKING SYSTEM SHALL BE A FULLY FUNCTIONAL SYSTEM WITH COMPLETE CONTROL DOWN TO INDIVIDUAL SPEAKERS. THE SYSTEM SHALL BE COMPRISED OF A COMBINATION SOUND MASKING GENERATOR/AMPLIFIER; B) LOUDSPEAKER ASSEMBLIES; C) CABLE ASSEMBLIES.

6. BASIC INSTALLATION REQUIREMENTS:
   A. INSTALL SPEAKERS USING CHAIN HANGERS, SUSPENDED ABOVE CEILING. REFER TO DETAILS FOR INSTALLATION REQUIREMENTS. ENSURE THAT LOUDSPEAKERS ARE SUSPENDED LEVEL AND ARE NOT OBSTRUCTED.
   B. CONNECT EACH LOUDSPEAKER TO THE SIGNAL GENERATOR USING SPECIFIED CABLE ASSEMBLIES.
   C. FOLLOW MANUFACTURER'S RECOMMENDATIONS REGARDING INSTALLATOIN AS FOUND IN THE ATLAS SOUND INSTALLATION MANUAL.
   D. COORDINATE WITH MANUFACTURER FOR FINAL TESTING AND TUNING OF SYSTEM ONCE SYSTEM IS COMPLETE AND OPERATIONAL. THIS SHALL INCLUDE ALL INITIAL SETUPS, SYSTEM CONFIGURATIONS, PROGRAMMING AND ADDITIONAL TASKS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. THE SYSTEM SHALL BE TUNED TO THE REQUIRED FREQUENCY RESPONSE CURVES AND THE LEVELS SET TO RAIS THE AMBIENT NOISE LEVELS BY APPROXIMATELY 5dB. FINAL TESTING SHALL BE PERFORMED AFTER ALL CEILING TILES AND FURNITURE ARE INSTALLED AND BEFORE PERSONNEL WHO WILL OCCUPY THE BUILDING ARE PRESENT.
   E. ACTIVATION OF THE FIRE ALARM/MASS NOTIFICATION SYSTEM SHALL TEMPORARILY MUTE THE SOUND MASKING AND PAGING FUNCTIONS OF THE SOUND MASKING SYSTEM UNTIL THE ALARM HAS BEEN CLEARED.
   F. THE SYSTEM SHALL BE DIVIDED INTO FOUR SEPARATE SOUND MASKING CHANNELS.
      i.) SOUND MASKING CHANNELS:
         a.) 1ST FLOOR DUCT TRANSDUCERS

1 E-502 SOUND MASKING SYSTEM RISER DIAGRAM
NOT TO SCALE



FIRE ALARM RISER NOTES:
1. THE NAC CIRCUIT IS SHOWN DIAGRAMMATIC. MAXIMUM NUMBER OF STROBES ON ANY CIRCUIT IS LIMITED. SEE SPECIFICATIONS.

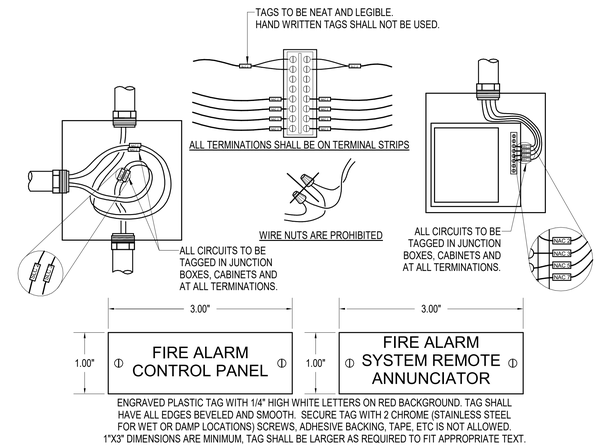
2. CONNECTIONS TO CONTROL RELAYS FOR SMOKE DAMPERS ARE NOT SHOWN ON THE RISER. PROVIDE CONNECTIONS FOR SLC AND NAC AS REQUIRED FOR PROPER OPERATION.

3. SLC LOOP TO CONNECT TO ALL ADDRESSABLE FIRE ALARM SYSTEM DEVICES. VERIFY DEVICES FROM FLOOR PLANS. PROVIDE ADDITIONAL LOOP(S) AS REQUIRED. SEE SPECIFICATIONS.

4. 3/4" MINIMUM CONDUIT SIZE FOR FIRE ALARM SYSTEM CIRCUITS. ALL CIRCUITS SHALL BE IN CONDUIT DEDICATED TO THE FIRE ALARM SYSTEM.

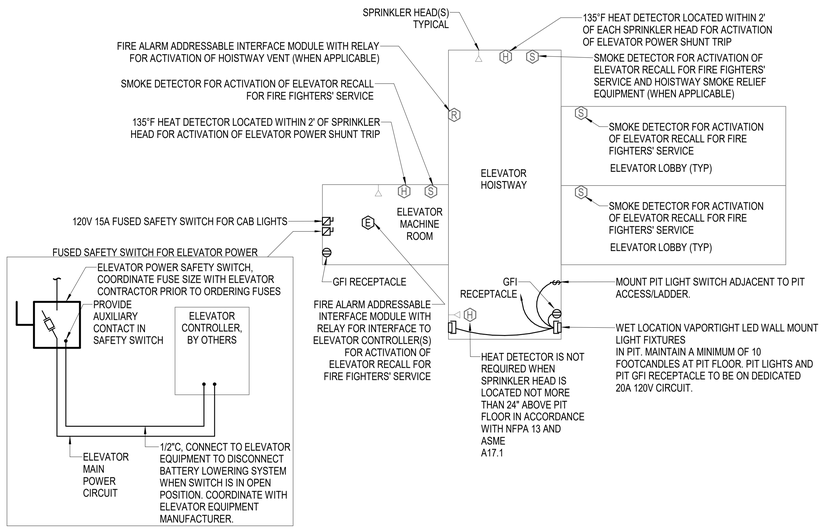
5. BATTERY CABINETS AND NAC EXPANDERS TO BE LOCATED AS NEEDED IN ELECTRICAL ROOMS ONLY.

2 E-502 FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE



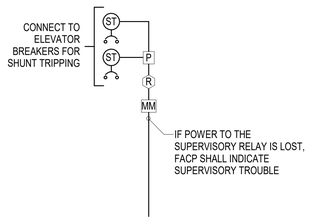
ENGRAVED PLASTIC TAG WITH 1/4" HIGH WHITE LETTERS ON RED BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH 2 CHROME (STAINLESS STEEL FOR WET OR DAMP LOCATIONS) SCREWS, ADHESIVE BACKING, TAPE, ETC IS NOT ALLOWED. 1"X3" DIMENSIONS ARE MINIMUM, TAG SHALL BE LARGER AS REQUIRED TO FIT APPROPRIATE TEXT.

3 E-502 FIRE ALARM SYSTEM LABELING DETAIL
NOT TO SCALE



1. ANSI/ASME A17.1-1996/A17.1a-1997/A17.1b-1998, SAFETY CODE FOR ELEVATORS AND ESCALATORS, IS APPLICABLE TO THIS PROJECT IN ACCORDANCE WITH FLORIDA ELEVATOR SAFETY CODE, CHAPTER 61C-5 F.A.C.
2. THE HOISTWAY(S) AND MACHINE ROOM(S) FOR THIS INSTALLATION ARE SPRINKLERED. THEREFORE, ANSI/ASME A17.1 REQUIRES THAT THE MAIN POWER SUPPLY TO THE AFFECTED ELEVATOR(S) BE AUTOMATICALLY DISCONNECTED UPON OR PRIOR TO APPLICATION OF WATER.
3. IN ACCORDANCE WITH SECTION 3-9.4 OF ANSI/NFPA 72, NATIONAL FIRE ALARM CODE, HEAT DETECTORS USED TO SHUT DOWN ELEVATOR POWER PRIOR TO SPRINKLER OPERATION SHALL HAVE BOTH A LOWER TEMPERATURE RATING AND A HIGHER SENSITIVITY THAN THE SPRINKLER HEADS. COORDINATE REQUIREMENTS WITH INSTALLATION OF FIRE PROTECTION SYSTEM.
4. FIRE ALARM SYSTEM SMOKE DETECTORS SHALL BE INSTALLED IN ELEVATOR LOBBIES, ELEVATOR HOISTWAYS, AND ELEVATOR MACHINE ROOMS TO INITIATE ELEVATOR RECALL FOR FIRE FIGHTERS' SERVICE IN ACCORDANCE WITH RULE 211.3 OF ANSI/ASME A17.1 AND SECTION 3-9.3 OF ANSI/NFPA 72.
5. IN ACCORDANCE WITH SECTION 3-9.3.7 OF ANSI/NFPA 72 AND ELEVATOR MANUFACTURER'S REQUIREMENTS, FOUR (4) EACH FIRE ALARM ADDRESSABLE INTERFACE MODULES WITH RELAY OUTPUTS SHALL BE PROVIDED IN EACH ELEVATOR MACHINE ROOM TO INTERFACE WITH THE ELEVATOR CONTROLLER(S). EACH MODULE SHALL PROVIDE THE FOLLOWING SIGNAL (OPERATION OF CONTACTS), RESPECTIVELY,
   A. SMOKE DETECTOR IN THE DESIGNATED (PRIMARY) ELEVATOR LOBBY IS ACTIVATED.
   B. SMOKE DETECTOR IN ANY OF THE ELEVATOR LOBBIES EXCEPT THE DESIGNATED PRIMARY) LOBBY IS ACTIVATED.
   C. SMOKE DETECTOR IN THE HOISTWAY IS ACTIVATED.
   D. SMOKE DETECTOR IN THE ELEVATOR MACHINE ROOM IS ACTIVATED.

4 E-502 ELEVATOR ELECTRICAL REQUIREMENTS
NOT TO SCALE



5 E-502 ELEVATOR SHUNT TRIP SUPERVISORY DETAIL
NOT TO SCALE

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HAROLD LYNN DELL JR. LICENSED PROFESSIONAL ENGINEER 31887 STATE OF MISSISSIPPI
Harold Lynn Dell, Jr. 31887

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — MISSISSIPPI
OFFICE OF CIVIL ENGINEERS

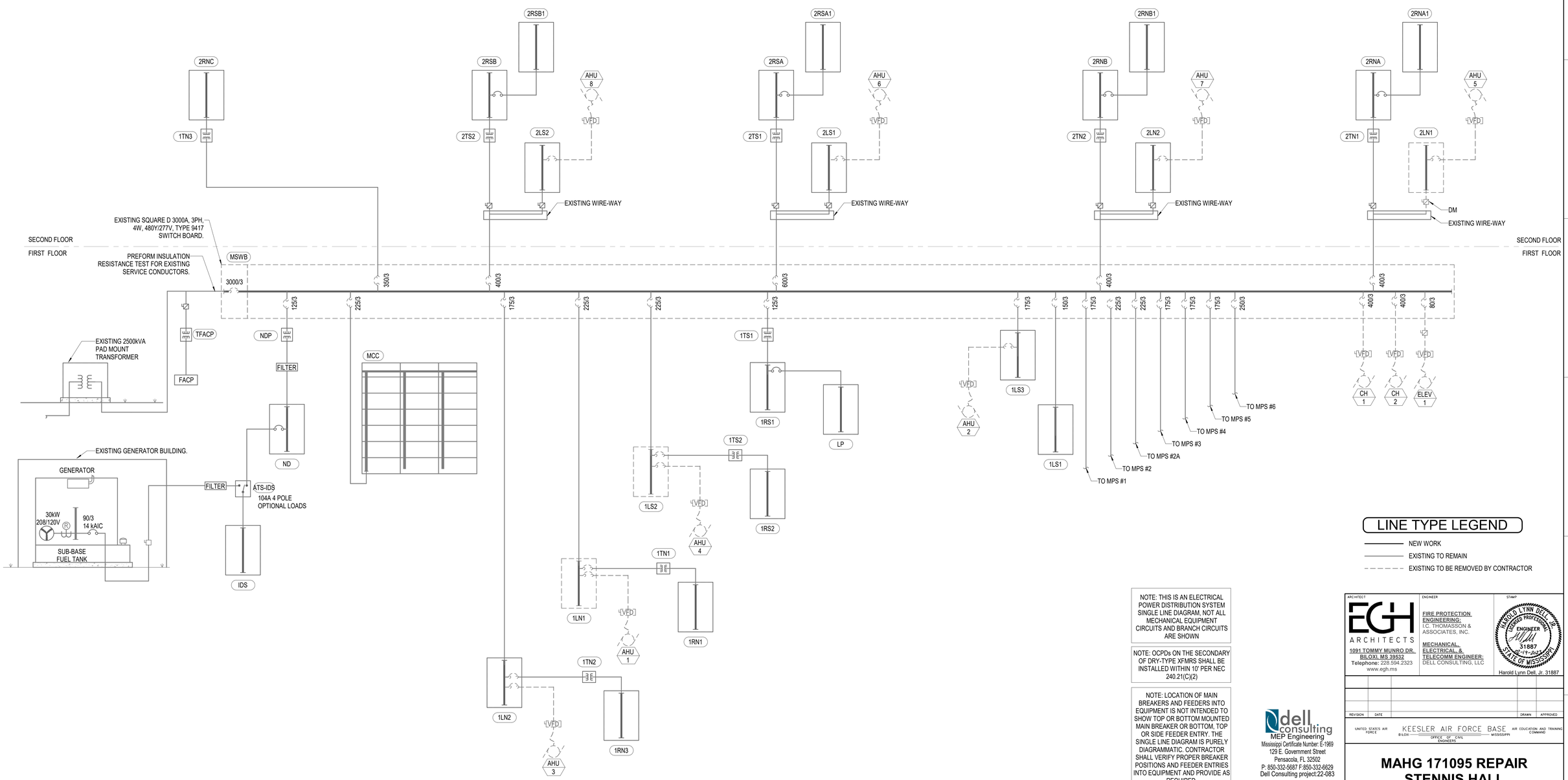
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG / PROJECT NUMBER: MAHG 17-1095	SHEET NAME: DETAILS	DRAWING NUMBER: E-502
CHECKED: HLD / DATE: 02/20/24		SHEET 68 OF 74

SINGLE LINE DIAGRAM LEGEND

- 17.000 — FAULT CURRENT TAG. AVAILABLE SYMMETRICAL FAULT CURRENT IN kA AT EQUIPMENT INDICATED. BASED ON 2500kVA UTILITY TRANSFORMER.
- CIRCUIT BREAKER
- NORMAL POWER FEEDER/CKT.
- DRY TYPE TRANSFORMER. SEE TRANSFORMER SCHEDULE FOR FEEDER SIZE AND TRANSFORMER SIZE.
- GROUNDING ELECTRODE AND GROUNDING ELECTRODE CONDUCTOR
- X — MOTOR, NUMBER INDICATES HORSEPOWER
- PANELBOARD. SEE PANELBOARD INFORMATION SCHEDULE FOR FEEDER SIZE AND PANELBOARD SIZE & DATA.
- SWITCHBOARD. SEE PANELBOARD INFORMATION SCHEDULE FOR FEEDER SIZE AND SWITCHBOARD SIZE & DATA.
- PEM — POWER ENERGY METER WITH CT'S AND VOLTAGE CONNECTIONS.

NOTE: OTHER SYMBOLS SHOWN IN THE SINGLE LINE DIAGRAM MAY BE IDENTIFIED IN THE MAIN ELECTRICAL LEGEND.



1 SINGLE LINE RISER DIAGRAM DEMOLITION
E-601 NOT TO SCALE

LINE TYPE LEGEND

- NEW WORK
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED BY CONTRACTOR

NOTE: THIS IS AN ELECTRICAL POWER DISTRIBUTION SYSTEM SINGLE LINE DIAGRAM. NOT ALL MECHANICAL EQUIPMENT CIRCUITS AND BRANCH CIRCUITS ARE SHOWN

NOTE: OCPDs ON THE SECONDARY OF DRY-TYPE XFMRS SHALL BE INSTALLED WITHIN 10' PER NEC 240.21(C)(2)

NOTE: LOCATION OF MAIN BREAKERS AND FEEDERS INTO EQUIPMENT IS NOT INTENDED TO SHOW TOP OR BOTTOM MOUNTED MAIN BREAKER OR BOTTOM, TOP OR SIDE FEEDER ENTRY. THE SINGLE LINE DIAGRAM IS PURELY DIAGRAMMATIC. CONTRACTOR SHALL VERIFY PROPER BREAKER POSITIONS AND FEEDER ENTRIES INTO EQUIPMENT AND PROVIDE AS REQUIRED.

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Harold Lynn Dell, Jr. 31887

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE, BILOXI, MISSISSIPPI — OFFICE OF CIVIL ENGINEERS — AIR EDUCATION AND TRAINING COMMAND

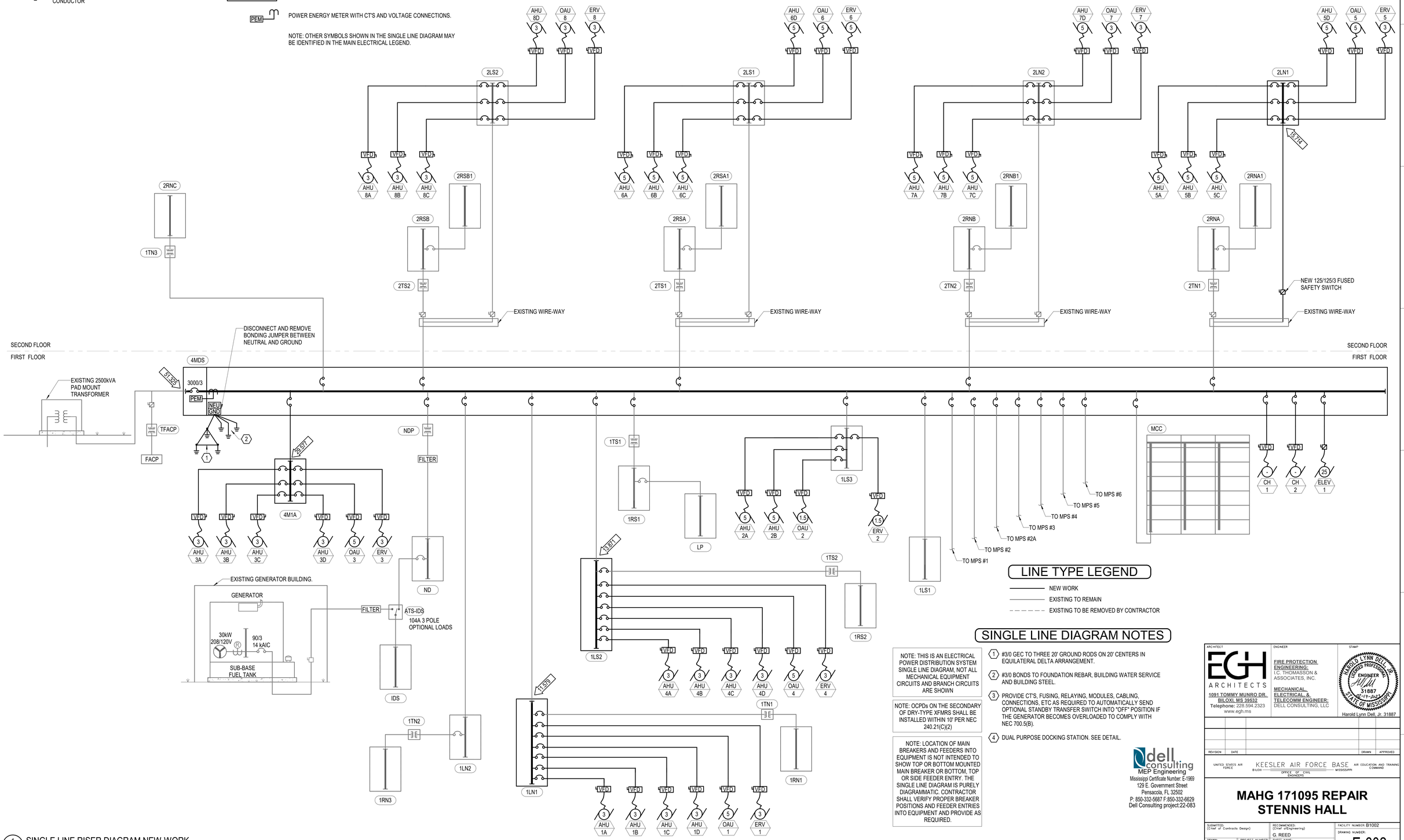
MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: SINGLE LINE DIAGRAMS DEMOLITION
CHECKED: HLD	DATE: 02/20/24	DRAWING NUMBER: E-601 SHEET 69 OF 74

SINGLE LINE DIAGRAM LEGEND

- 17.000 — FAULT CURRENT TAG. AVAILABLE SYMMETRICAL FAULT CURRENT IN kA AT EQUIPMENT INDICATED. BASED ON 2500kVA UTILITY TRANSFORMER.
- CIRCUIT BREAKER
- NORMAL POWER FEEDER/CKT.
- DRY TYPE TRANSFORMER. SEE TRANSFORMER SCHEDULE FOR FEEDER SIZE AND TRANSFORMER SIZE.
- GROUNDING ELECTRODE AND GROUNDING ELECTRODE CONDUCTOR
- MOTOR, NUMBER INDICATES HORSEPOWER
- PANELBOARD. SEE PANELBOARD INFORMATION SCHEDULE FOR FEEDER SIZE AND PANELBOARD SIZE & DATA.
- SWITCHBOARD. SEE PANELBOARD INFORMATION SCHEDULE FOR FEEDER SIZE AND SWITCHBOARD SIZE & DATA.
- PEM — POWER ENERGY METER WITH CT'S AND VOLTAGE CONNECTIONS.

NOTE: OTHER SYMBOLS SHOWN IN THE SINGLE LINE DIAGRAM MAY BE IDENTIFIED IN THE MAIN ELECTRICAL LEGEND.



LINE TYPE LEGEND

- NEW WORK
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED BY CONTRACTOR

SINGLE LINE DIAGRAM NOTES

NOTE: THIS IS AN ELECTRICAL POWER DISTRIBUTION SYSTEM SINGLE LINE DIAGRAM, NOT ALL MECHANICAL EQUIPMENT CIRCUITS AND BRANCH CIRCUITS ARE SHOWN

NOTE: OCPDs ON THE SECONDARY OF DRY-TYPE XFMRS SHALL BE INSTALLED WITHIN 10' PER NEC 240.21(C)(2)

NOTE: LOCATION OF MAIN BREAKERS AND FEEDERS INTO EQUIPMENT IS NOT INTENDED TO SHOW TOP OR BOTTOM MOUNTED MAIN BREAKER OR BOTTOM, TOP OR SIDE FEEDER ENTRY. THE SINGLE LINE DIAGRAM IS PURELY DIAGRAMMATIC. CONTRACTOR SHALL VERIFY PROPER BREAKER POSITIONS AND FEEDER ENTRIES INTO EQUIPMENT AND PROVIDE AS REQUIRED.

1. #3/0 GEC TO THREE 20' GROUND RODS ON 20' CENTERS IN EQUILATERAL DELTA ARRANGEMENT.
2. #3/0 BONDS TO FOUNDATION REBAR, BUILDING WATER SERVICE AND BUILDING STEEL.
3. PROVIDE CT'S, FUSING, RELAYING, MODULES, CABLING, CONNECTIONS, ETC AS REQUIRED TO AUTOMATICALLY SEND OPTIONAL STANDBY TRANSFER SWITCH INTO "OFF" POSITION IF THE GENERATOR BECOMES OVERLOADED TO COMPLY WITH NEC 700.5(B).
4. DUAL PURPOSE DOCKING STATION. SEE DETAIL.

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31887
STATE OF MISSISSIPPI
Harold Lynn Dell, Jr. 31887

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: SINGLE LINE DIAGRAMS NEW WORK
CHECKED: HLD	DATE: 02/20/24	DRAWING NUMBER: E-602
		SHEET 70 OF 74

1 (E-602) SINGLE LINE RISER DIAGRAM NEW WORK
NOT TO SCALE

PANELBOARD INFORMATION SCHEDULE

MARK	ENCLOSURE TYPE	MOUNTING STYLE	VOLTAGE	ϕ	WIRE	MAIN BKR	IF MLO SERVING	SERVICE RATED	kAIC RATING	ϕ BUS RATING	N BUS RATING	FEEDER CONDUCTOR	FEEDER GROUND	FEEDER CONDUIT	NOTES
4MDS	NEMA 1	FLOOR	480Y/277	3	4	3000	N/A	Yes	65	3000 A	100%	8 RUNS 4#500	N/A	3"C EA	1,3
4M1A	NEMA 1	SURFACE	480Y/277	3	4	MLO	225	No	35	250 A	100%	4#4/0	#4	2 1/2"C	2
2LN1	NEMA 1	SURFACE	480Y/277	3	4	MLO	125	No	22	250 A	100%	4#1/0	#6	2"C	2
1LS2	NEMA 1	SURFACE	480Y/277	3	4	MLO	225	No	22	250 A	100%	EXISTING	EXISTING	EXISTING	2
1LN1	NEMA 1	SURFACE	480Y/277	3	4	MLO	225	No	22	250 A	100%	EXISTING	EXISTING	EXISTING	2

NOTES: 1. PROVIDE INTEGRAL DIGITAL METER.
2. PROVIDE EXTERNALLY MOUNTED SPD, SEE DETAIL.
3. PROVIDE INTEGRAL SPD.

PANELBOARD SCHEDULE

MARK: **1LN1**

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	**LTG 1N23 - 1N29**	**1**	**20 A**	**1.7**			**1.9**			**20 A**	**1**	**LTG 1N19**	2
3	**1N30, 32**	**1**	**20 A**		**2.6**			**1.9**		**20 A**	**1**	**LTG 1N19**	4
5	**1N34, 36**	**1**	**20 A**			**2.6**			**2.0**	**20 A**	**1**	**LN22, 33, 42**	6
7	**1N35, 37**	**1**	**20 A**	**2.1**			**1.6**			**20 A**	**1**	**1N20**	8
9	**1N38, 39, 51**	**1**	**20 A**		**1.9**			0.0		20 A	1	SPARE	10
11	SPARE	1	20 A			0.0			0.0	20 A	1	SPARE	12
13	SPARE	3	30 A	0.0			3.0			15 A	3	COMPUTER ROOM AIR CONDITIONER CRAC-9	14
15					0.0			3.0					16
17						0.0			3.0				18
19	COMPUTER ROOM AIR CONDITIONER CRAC-6	3	15 A	3.0			3.0			15 A	3	COMPUTER ROOM AIR CONDITIONER CRAC-10	20
21					3.0			3.0					22
23						3.0			3.0				24
25	**PANEL 1RN1 VIA TRANSFORMER 1TN1**	**3**	**70 A**	**8.5**			3.0			15 A	3	COMPUTER ROOM AIR CONDITIONER CRAC-11	26
27					**9.3**			3.0					28
29						**8.7**			3.0				30
31	COMPUTER ROOM AIR CONDITIONER CRAC-7	3	15 A	3.0			2.2			15 A	3	OUTSIDE AIR UNIT OAU-1	32
33					3.0			2.2					34
35						3.0			2.2				36
37	COMPUTER ROOM AIR CONDITIONER CRAC-8	3	15 A	3.0			2.4			15 A	3	ENERGY RECOVERY UNIT ERV-1	38
39					3.0			2.4					40
41						3.0			2.4				42
43	AIR HANDLING UNIT AHU-1A FAN-1	3	15 A	1.1			1.1			15 A	3	AIR HANDLING UNIT AHU-1C FAN-3	44
45					1.1			1.1					46
47						1.1			1.1				48
49	AIR HANDLING UNIT AHU-1B FAN-2	3	15 A	1.1			1.1			15 A	3	AIR HANDLING UNIT AHU-1D FAN-4	50
51					1.1			1.1					52
53						1.1			1.1				54
55	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	56
57	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	58
59	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	60
61	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	62
63	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	64
65	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	66
67	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	68

TOTAL KVA: ϕ A: 42.8 ϕ B: 42.7 ϕ C: 40.3 HIGH ϕ (AMPS): 156 A
TOTAL CONNECTED LOAD (KVA): 125.9 TOTAL LOAD (AMPS): 151.4 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
BOLD INDICATES EXISTING CIRCUIT TO BE RECONNECTED.

PANELBOARD SCHEDULE

MARK: **4M1A**

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	ENERGY RECOVERY UNIT ERV-3	3	15 A	2.4			10.4			50 A	3	CLASSROOM AIR CONDITIONER CRAC 1.1	2
3					2.4			10.4					4
5						2.4			10.4				6
7	OUTSIDE AIR UNIT OAU-3	3	15 A	2.2			0.8			15 A	3	CONDENSING UNIT CU 1.1	8
9					2.2			0.8					10
11						2.2			0.8				12
13	COMPUTER ROOM AIR CONDITIONER CRAC-1	3	30 A	6.6			3.0			15 A	3	COMPUTER ROOM AIR CONDITIONER CRAC-2	14
15					6.6			3.0					16
17						6.6			3.0				18
19	COMPUTER ROOM AIR CONDITIONER CRAC-4	3	15 A	3.0			3.0			15 A	3	COMPUTER ROOM AIR CONDITIONER CRAC-3	20
21					3.0			3.0					22
23						3.0			3.0				24
25	COMPUTER ROOM AIR CONDITIONER CRAC-5	3	15 A	3.0			3.0			15 A	3	COMPUTER ROOM AIR CONDITIONER CRAC-14	26
27					3.0			3.0					28
29						3.0			3.0				30
31	COMPUTER ROOM AIR CONDITIONER CRAC-13	3	15 A	3.0			3.0			15 A	3	COMPUTER ROOM AIR CONDITIONER CRAC-12	32
33					3.0			3.0					34
35						3.0			3.0				36
37	AIR HANDLING UNIT 3 AHU-3A FAN-1	3	15 A	1.1			1.1			15 A	3	AIR HANDLING UNIT 3 AHU-3B FAN-2	38
39					1.1			1.1					40
41						1.1			1.1				42
43	SPARE	1	20 A	0.0			1.1			15 A	3	AIR HANDLING UNIT 3 AHU-3C FAN-3	44
45	SPARE	1	20 A		0.0			1.1					46
47	SPARE	1	20 A			0.0			1.1				48
49	SPARE	3	15 A	0.0			1.1			15 A	3	AIR HANDLING UNIT 3 AHU-3D FAN-4	50
51					0.0			1.1					52
53						0.0			1.1				54
55	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	56
57	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	58
59	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	60
61	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	62
63	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	64
65	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	66
67	SPACE ONLY	1	--	--			--			--	1	SPACE ONLY	68

TOTAL KVA: ϕ A: 47.9 ϕ B: 47.9 ϕ C: 47.9 HIGH ϕ (AMPS): 173 A
TOTAL CONNECTED LOAD (KVA): 143.7 TOTAL LOAD (AMPS): 172.9 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:

MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE

MARK TYPE	MARK #	ITEM	VOLTAGE	ϕ	MCA	LOAD	MEANS OF DISCONNECT	CB TRIP	CIRCUIT ϕ	CIRCUIT GROUND	CIRCUIT CONDUIT	SERVING PANEL	NOTES
AHU	1A	AIR HANDLING UNIT FAN-4	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LN1	1
AHU	1B	AIR HANDLING UNIT FAN-3	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LN1	1
AHU	1C	AIR HANDLING UNIT FAN-2	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LN1	1
AHU	1D	AIR HANDLING UNIT FAN-1	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LN1	1
AHU	2A	AIR HANDLING UNIT FAN-1	480 V	3	7.5 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LS3	1
AHU	2B	AIR HANDLING UNIT FAN-2	480 V	3	7.5 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LS3	1
AHU	3A	AIR HANDLING UNIT FAN-1	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	4M1A	1
AHU	3B	AIR HANDLING UNIT FAN-2	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	4M1A	1
AHU	3C	AIR HANDLING UNIT FAN-3	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	4M1A	1
AHU	3D	AIR HANDLING UNIT FAN-4	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	4M1A	1
AHU	4A	AIR HANDLING UNIT FAN-4	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LS2	1
AHU	4B	AIR HANDLING UNIT FAN-3	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LS2	1
AHU	4C	AIR HANDLING UNIT FAN-2	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LS2	1
AHU	4D	AIR HANDLING UNIT FAN-1	480 V	3	4.8 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LS2	1
AHU	5A	AIR HANDLING UNIT FAN-4	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LN1	1
AHU	5B	AIR HANDLING UNIT FAN-3	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LN1	1
AHU	5C	AIR HANDLING UNIT FAN-2	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LN1	1
AHU	5D	AIR HANDLING UNIT FAN-1	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LN1	1
AHU	6A	AIR HANDLING UNIT FAN-1	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LS1	1
AHU	6B	AIR HANDLING UNIT FAN-2	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LS1	1
AHU	6C	AIR HANDLING UNIT FAN-3	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LS1	1
AHU	6D	AIR HANDLING UNIT FAN-4	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LS1	1
AHU	7A	AIR HANDLING UNIT FAN-1	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LN2	1
AHU	7B	AIR HANDLING UNIT FAN-2	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LN2	1
AHU	7C	AIR HANDLING UNIT FAN-3	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LN2	1
AHU	7D	AIR HANDLING UNIT FAN-4	480 V	3	8.4 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LN2	1
AHU	8A	AIR HANDLING UNIT FAN-4	480 V	3	5.3 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LS2	1
AHU	8B	AIR HANDLING UNIT FAN-3	480 V	3	5.3 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LS2	1
AHU	8C	AIR HANDLING UNIT FAN-2	480 V	3	5.3 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LS2	1
AHU	8D	AIR HANDLING UNIT FAN-1	480 V	3	5.3 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LS2	1
CH	1	CHILLER	480 V	3	328 A	263.50 A	600/3 N1, SS	500 A	3#500	#2	4"C	4MDS	
CH	2	CHILLER	480 V	3	328 A	263.50 A	600/3 N1, SS	500 A	3#500	#2	4"C	4MDS	
CRAC	1	COMPUTER ROOM AIR CONDITIONER	480 V	3	29.9 A	3 @ 3.7 HP	SEE NOTE 2	30 A	3#10	#10	1/2"C	4M1A	2
CRAC	1.1	OUTSIDE AIR UNIT	480 V	3	41.2 A	1 @ 3.75 HP	SEE NOTE 2	50 A	3#6	#10	1"C	4M1A	2
CRAC	2	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	4M1A	2
CRAC	3	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	4M1A	2
CRAC	4	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	4M1A	2
CRAC	5	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	4M1A	2
CRAC	6	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	1LN1	2
CRAC	7	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	1LN1	2
CRAC	8	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	1LN1	2
CRAC	9	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	1LN1	2
CRAC	10	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	1LN1	2
CRAC	11	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	1LN1	2
CRAC	12	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	4M1A	2
CRAC	13	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	4M1A	2
CRAC	14	COMPUTER ROOM AIR CONDITIONER	480 V	3	13.8 A	4.2 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	4M1A	2
CU	1.1	CONDENSING UNIT CU	480 V	3	3.2 A	2.8 A	15/3 N3R,SS	15 A	3#12	#12	1/2"C	4M1A	
ELEV	1	ELEVATOR	480 V	3	42.5 A	25 HP	50/60/3 N1, SS	70 A	3#6	#8	1"C	4MDS	
ELEV	1B	ELEVATOR CAB LIGHTS	120 V	1	12 A	9.6A	15/15/2 N1, SS	15 A	2#12	#12	1/2"C	LP	
ERV	1	ENERGY RECOVERY UNIT	480 V	3	10.5 A	2 @ 3 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	1LN1	2
ERV	2	ENERGY RECOVERY UNIT	480 V	3	5.9 A	2 @ 1.5 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	1LS3	2
ERV	3	ENERGY RECOVERY UNIT	480 V	3	10.5 A	2 @ 3 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	4M1A	2
ERV	4	ENERGY RECOVERY UNIT	480 V	3	10.5 A	2 @ 3 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	1LS2	2
ERV	5	ENERGY RECOVERY UNIT	480 V	3	10.5 A	2 @ 3 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	2LN1	2
ERV	6	ENERGY RECOVERY UNIT	480 V	3	13.9 A	3 HP + 5HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	2LS1	2
ERV	7	ENERGY RECOVERY UNIT	480 V	3	10.5 A	2 @ 3 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	2LN2	2
ERV	8	ENERGY RECOVERY UNIT	480 V	3	10.5 A	2 @ 3 HP	SEE NOTE 2	15 A	3#12	#12	1/2"C	2LS2	2
OAU	1	OUTSIDE AIR UNIT	480 V	3	9.8 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LN1	1
OAU	2	OUTSIDE AIR UNIT	480 V	3	4.1 A	1.5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LS3	1
OAU	3	OUTSIDE AIR UNIT	480 V	3	9.8 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	4M1A	1
OAU	4	OUTSIDE AIR UNIT	480 V	3	9.8 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	1LS2	1
OAU	5	OUTSIDE AIR UNIT	480 V	3	9.8 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LN1	1
OAU	6	OUTSIDE AIR UNIT	480 V	3	9.5 A	5 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LS1	1
OAU	7	OUTSIDE AIR UNIT	480 V	3	6 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LN2	1
OAU	8	OUTSIDE AIR UNIT	480 V	3	6.9 A	3 HP	SEE NOTE 1	15 A	3#12	#12	1/2"C	2LS2	1

NOTES: N1 = NEMA 1, N3R = NEMA 3R, SS = SAFTEY SWITCH,
1. VFD W/ INTEGRAL DISCONNECT PROVIDED BY DIVISION 23, CONNECTED BY DIVISION 26.
2.INTEGRAL DISCONNECT PROVIDED BY DIVISION 23, CONNECTED BY DIVISION 26.

SWITCHBOARD SCHEDULE

MARK: 4MDS

CKT #	LOAD DESCRIPTION	# OF POLES	FRAME SIZE	RATING	A	B	C	NOTES
1	CHILLER CH-1	3	800 A	500 A	73.0 kVA	73.0 kVA	73.0 kVA	1
2	CHILLER CH-2	3	800 A	500 A	73.0 kVA	73.0 kVA	73.0 kVA	1
3	2RNC	3	400 A	350 A	0.0 kVA	0.0 kVA	0.0 kVA	1
4	2RSA & 2LS1	3	800 A	600 A	30.1 kVA	30.8 kVA	26.3 kVA	1
5	2RSB & 2LS2	3	400 A	400 A	26.6 kVA	25.3 kVA	22.2 kVA	1
6	2RNA & 2LN1	3	400 A	400 A	29.4 kVA	24.6 kVA	27.1 kVA	1
7	2RNB & 2LN2	3	400 A	400 A	27.6 kVA	30.6 kVA	21.4 kVA	1
8	PANEL NDP VIA TRANSFORMER NDP	3	225 A	125 A	0.0 kVA	0.0 kVA	0.0 kVA	2
9	MPS#1	3	225 A	175 A	0.0 kVA	0.0 kVA	0.0 kVA	2
10	MPS#2	3	225 A	225 A	0.0 kVA	0.0 kVA	0.0 kVA	2
11	MPS#2A	3	225 A	225 A	0.0 kVA	0.0 kVA	0.0 kVA	2
12	MPS#3	3	225 A	175 A	0.0 kVA	0.0 kVA	0.0 kVA	2
13	MPS#4	3	225 A	175 A	0.0 kVA	0.0 kVA	0.0 kVA	2
14	MPS#5	3	225 A	175 A	0.0 kVA	0.0 kVA	0.0 kVA	2
15	MPS#6	3	250 A	250 A	0.0 kVA	0.0 kVA	0.0 kVA	2
16	MCC	3	225 A	225 A	0.0 kVA	0.0 kVA	0.0 kVA	2
17	ELEV-1	3	100 A	70 A	9.4 kVA	9.4 kVA	9.4 kVA	2
18	1LN2	3	225 A	175 A	15.8 kVA	13.0 kVA	12.7 kVA	2
19	1LN1	3	225 A	225 A	42.8 kVA	42.7 kVA	40.3 kVA	2
20	1LS2	3	225 A	225 A	45.0 kVA	40.8 kVA	39.9 kVA	2
21	1LS3	3	225 A	175 A	36.6 kVA	36.6 kVA	36.6 kVA	2
22	1LS1	3	225 A	150 A	0.0 kVA	0.0 kVA	0.0 kVA	2
23	PANEL 1RS1 VIA TRANSFORMER 1TS1	3	225 A	125 A	14.8 kVA	15.7 kVA	15.5 kVA	2
24	4M1A	3	225 A	225 A	47.9 kVA	47.9 kVA	47.9 kVA	2
25	SPARE	3	800 A	800 A	0.0 kVA	0.0 kVA	0.0 kVA	1
26	SPARE	3	800 A	800 A	0.0 kVA	0.0 kVA	0.0 kVA	1
27	SPARE	3	800 A	800 A	0.0 kVA	0.0 kVA	0.0 kVA	1
28	SPARE	3	400 A	400 A	0.0 kVA	0.0 kVA	0.0 kVA	1
29	SPARE	3	400 A	400 A	0.0 kVA	0.0 kVA	0.0 kVA	1
30	SPARE	3	400 A	400 A	0.0 kVA	0.0 kVA	0.0 kVA	1
31	SPARE	3	400 A	400 A	0.0 kVA	0.0 kVA	0.0 kVA	1
32	SPACE ONLY	3	--	--	--	--	--	
33	SPACE ONLY	3	--	--	--	--	--	

NOTES: 1. PROVIED LSIG ELECTRONIC TRIP CB
2. PROVIDE LSI ELECTRONIC TRIP C/B

TOTAL LOAD: 1381 kVA
TOTAL AMPS: 1661 A

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Harold Lynn Dell, Jr. 31887

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)
RECOMMENDED: (Chief of Engineering) G. REED
DRAWN: GG
PROJECT NUMBER: MAHG 17-1065
SHEET NAME: SCHEDULES
CHECKED: HLD
DATE: 02/20/24
FACILITY NUMBER: B1002
DRAWING NUMBER: E-701
SHEET 71 OF 74

PANELBOARD SCHEDULE

MARK: **1LS2**

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	**LTG 1S11, 12, 13, 14, 167, 17**	**1**	**20 A**	**1.7**			**1.9**			**20 A**	**1**	**LTG 1S15**	2
3	**1S08, 01**	**1**	**20 A**		**2.6**			**1.9**		**20 A**	**1**	**1S19, 21**	4
5	**1S01, 03**	**1**	**20 A**			**1.9**			**1.9**	**20 A**	**1**	**1S18, 20**	6
7	**1S04, 06, 07, 09**	**1**	**20 A**	**1.4**			**1.9**			**20 A**	**1**	**1S05**	8
9	**1S02, 37, 38**	**1**	**20 A**		**1.4**			0.0		20 A	1	SPARE	10
11	SPARE	1	20 A			0.0			0.0	20 A	1	SPARE	12
13	ENERGY RECOVERY UNIT* ERV-4	3	15 A	2.4			**2.5**			**30 A**	**3**	**1S20 CAC 9 RM 151**	14
15					2.4			**2.5**					16
17						2.4			**2.5**				18
19	**CAC 1S15**	**3**	**30 A**	**3.0**			**2.5**			**30 A**	**3**	**1S18 CAC-8 RM 149**	20
21					**3.0**			**2.5**					22
23						**3.0**			**2.5**				24
25	**CAC 1S21**	**3**	**30 A**	**2.5**			**3.0**			**30 A**	**3**	**1S05 CAC-7 RM 139**	26
27					**2.5**			**3.0**					28
29						**2.5**			**3.0**				30
31	**CAC 1S19**	**3**	**30 A**	**2.5**			**0.0**			**30 A**	**3**	**CAC-2 RM 148**	32
33					**2.5**			**0.0**					34
35						**2.5**			**0.0**				36
37	PANEL 1RS2 VIA TRANSFORMER 1TS2	3	70 A	13.4			2.2			15 A	3	OUTSIDE AIR UNIT OAU-4	38
39					10.2			2.2					40
41						11.4			2.2				42
43	AIR HANDLING UNIT AHU-4A FAN-1	3	15 A	1.1			1.1			15 A	3	AIR HANDLING UNIT AHU-4C FAN-3	44
45					1.1			1.1					46
47						1.1			1.1				48
49	AIR HANDLING UNIT AHU-4B FAN-2	3	15 A	1.1			1.1			15 A	3	AIR HANDLING UNIT AHU-4D FAN-4	50
51					1.1			1.1					52
53						1.1			1.1				54
55	SPARE	1	20 A	0.0			0.0			20 A	1	SPARE	56
57	SPARE	1	20 A		0.0			0.0		20 A	1	SPARE	58
59	SPARE	1	20 A			0.0			0.0	20 A	1	SPARE	60
61	SPARE	1	20 A	0.0			0.0			20 A	1	SPARE	62
63	SPARE	1	20 A		0.0			0.0		20 A	1	SPARE	64
65	SPARE	1	20 A			0.0			0.0	20 A	1	SPARE	66
67	SPARE	1	20 A	0.0			0.0			20 A	1	SPARE	68

TOTAL KVA: ϕ A: 45.0 ϕ B: 40.8 ϕ C: 39.9 HIGH ϕ (AMPS): 163 A
TOTAL CONNECTED LOAD (KVA): 125.7 TOTAL LOAD (AMPS): 151.2 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
BOLD INDICATES EXISTING CIRCUIT TO BE RECONNECTED.

PANELBOARD SCHEDULE

MARK: **2LN2** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	LTG 2N09, 10, 11	1	20 A	1.8			2.6			20 A	1	LTG 2N12, 13	2
3	LTG 2N05, 08	1	20 A		2.6			2.6		20 A	1	LTG 2N15, 17	4
5	2N01 RM 210	1	20 A			1.4			1.9	20 A	1	LTG 2N02, 03, 04, 06, 07	6
7	2N38	1	20 A	1.6			1.6			20 A	1	LTG 2N14	8
9	2N37	1	20 A		1.8			1.6		20 A	1	LTG 2N16	10
11	SPARE	1	20 A			0.0			0.0	20 A	1	SPARE	12
13	**AIR HANDLING UNIT * AHU-7A FAN-1**	**3**	**15 A**	**1.9**			**1.3**			**15 A**	**3**	**OUTSIDE AIR UNIT * OAU-7**	14
15					**1.9**			**1.3**					16
17						**1.9**			**1.3**				18
19	**AIR HANDLING UNIT * AHU-7B FAN-2**	**3**	**15 A**	**1.9**			**2.4**			**15 A**	**3**	**ENERGY RECOVERY UNIT* ERV-7**	20
21					**1.9**			**2.4**					22
23						**1.9**			**2.4**				24
25	**AIR HANDLING UNIT * AHU-7C FAN-3**	**3**	**15 A**	**1.9**			**1.9**			**15 A**	**3**	**AIR HANDLING UNIT * AHU-7D FAN-4**	26
27					**1.9**			**1.9**					28
29						**1.9**			**1.9**				30

TOTAL KVA: ϕ A: 18.7 ϕ B: 19.7 ϕ C: 14.4 HIGH ϕ (AMPS): 74 A
TOTAL CONNECTED LOAD (KVA): 52.9 TOTAL LOAD (AMPS): 63.6 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B. +CONNECT TO EXISTING SPARE.
TYPE: SQUARE D NEHB-30435-1 SERIES-E1 480Y/277V, 3Φ/4W, 14kAIC, 125A MLO.

PANELBOARD SCHEDULE

MARK: **1RS1** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	RECP. 1S42	1	20 A	0.7			0.9			20 A	1	RECP. 1S26	2
3	RECP. 1S43	1	20 A		0.7			1.8		20 A	1	RECP. 1S26	4
5	RECP. 1S45	1	20 A			0.9			1.8	20 A	1	RECP. 1S25, 23	6
7	RECP. 1S29, 30	1	20 A	0.9			0.9			20 A	1	RECP. 1S23	8
9	RECP. 1S31	1	20 A		0.7			0.9		20 A	1	RECP. 1S23	10
11	RECP. 1S31, 22	1	20 A			0.9			1.0	20 A	1	WH 2 1S55	12
13	RECP. 1S22	1	20 A	0.9			0.9			20 A	1	RECP. 1S32, 33, 22	14
15	RECP. 1S22	1	20 A		0.9			0.8		20 A	1	1S50 DF	16
17	RECP. 1S26 ADPE	1	20 A			0.5			0.1	20 A	1	AHU 2 1S45 CONTROL	18
19	RECP. 1S27	1	20 A	0.2			0.1			20 A	1	UH 2 1S45	20
21	LTG 1S55	1	20 A		0.3			0.4		20 A	1	TAPE OUTSIDE	22
23	RECP. 1S55	1	20 A			0.5			0.1	20 A	1	COKE MACHINE	24
25	1S31	1	20 A	0.2			0.9			20 A	1	MOTOR 1S45	26
27	TU 1S46	1	20 A		1.0			0.0		20 A	1	GEN ROOM	28
29	**AIR HANDLING UNIT AHU-2 LTS & REC +**	**1**	**20 A**			**1.3**			0.0	20 A	1	GEN ROOM	30
31	PANEL LP	3	100 A	8.3			0.0			60 A	3	OCCUPIED SPACE	32
33					8.3			0.0					34
35						8.3			0.0				36
37	OCCUPIED SPACE	1	20 A	0.0			0.0			20 A	1	OCCUPIED SPACE	38
39	OCCUPIED SPACE	2	80 A		0.0			0.0		40 A	2	OCCUPIED SPACE	40
41						0.0			0.0				42

TOTAL KVA: ϕ A: 14.8 ϕ B: 15.7 ϕ C: 15.5 HIGH ϕ (AMPS): 132 A
TOTAL CONNECTED LOAD (KVA): 46.0 TOTAL LOAD (AMPS): 127.8 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD. +CONNECT TO EXISTING C/B.
TYPE: SQUARE D NQOB 45-98951-3 208Y/120V, 3Φ/4W, 10kAIC, 250A MCB.

PANELBOARD SCHEDULE

MARK: **1LS3** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	**ENERGY RECOVERY UNIT ERV-2**	**3**	**20 A**	**1.3**			3.0			30 A	3	CAC 11 RM 153	2
3					**1.3**			3.0					4
5						**1.3**			3.0				6
7	CAC 16 1S23 RM 154	3	30 A	3.0			3.0			30 A	3	CAC 10 1S22 RM 153	8
9					3.0			3.0					10
11						3.0			3.0				12
13	CAC 15 1S23 RM 154	3	30 A	3.0			0.0			30 A	3	SPARE	14
15					3.0			0.0					16
17						3.0			0.0				18
19	CT 1 OUTSIDE	3	60 A	7.5			7.5			60 A	3	CT 1 OUTSIDE	20
21					7.5			7.5					22
23						7.5			7.5				24
25	BASIN OUTSIDE HTR.	3	30 A	4.0			**0.9**			**15 A**	**3**	**OUTSIDE AIR UNIT * OAU-2**	26
27					4.0			**0.9**					28
29						4.0			**0.9**				30
31	**AIR HANDLING UNIT * AHU-2A FAN-1**	**3**	**15 A**	**1.7**			--			--	1	SPACE ONLY	32
33					**1.7**			--		--	1	SPACE ONLY	34
35						**1.7**			--	--	1	SPACE ONLY	36
37	**AIR HANDLING UNIT * AHU-2B FAN-2**	**3**	**15 A**	**1.7**			--			--	1	SPACE ONLY	38
39					**1.7**			--		--	1	SPACE ONLY	40
41						**1.7**			--	--	1	SPACE ONLY	42

TOTAL KVA: ϕ A: 36.6 ϕ B: 36.6 ϕ C: 36.6 HIGH ϕ (AMPS): 132 A
TOTAL CONNECTED LOAD (KVA): 109.7 TOTAL LOAD (AMPS): 132.0 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B. +CONNECT TO EXISTING SPARE.
TYPE: SQUARE D NEHB-42441-2 SERIES-E1 480Y/277V, 3Φ/4W, 14kAIC, 175A MLO.

PANELBOARD SCHEDULE

MARK: **2LS1** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	LTG 2S33, 34, 35	1	20 A	1.8			2.6			20 A	1	LTG 2S27, 28, 32	2
3	LTG 2S36, 37	1	20 A		2.6			2.6		20 A	1	LTG 2S29, 31	4
5	LTG 2S38, 39, 40	1	20 A			1.6			2.6	20 A	1	LTG 2S30, 41	6
7	SPARE	1	20 A	0.0			1.6			20 A	1	LTG 2S42, 56, 57	8
9	SPARE	1	20 A		0.0			1.6		20 A	1	2S43, 54, 55	10
11	SPARE	1	20 A			0.0			0.0	20 A	1	SPARE	12
13	SPARE	1	20 A	0.0			**2.1**			**15 A**	**3**	**OUTSIDE AIR UNIT * OAU-6**	14
15	SPARE	1	20 A		0.0			**2.1**					16
17	SPARE	1	20 A			0.0			**2.1**				18
19	**AIR HANDLING UNIT * AHU-6A FAN-1**	**3**	**15 A**	**1.9**			**3.0**			**15 A**	**3**	**ENERGY RECOVERY UNIT* ERV-6**	20
21					**1.9**			**3.0**					22
23						1.9			**3.0**				24
25	SPACE ONLY	1	--	--			**1.9**			**15 A**	**3**	**AIR HANDLING UNIT * AHU-6B FAN-2**	26
27	SPACE ONLY	1	--		--			**1.9**					28
29	SPACE ONLY	1	--			--			**1.9**				30
31	SPACE ONLY	1	--	--			**1.9**			**15 A**	**3**	**AIR HANDLING UNIT * AHU-6C FAN-3**	32
33	SPACE ONLY	1	--		--			**1.9**					34
35	SPACE ONLY	1	--			--			**1.9**				36
37	SPACE ONLY	1	--	--			**1.9**			**15 A**	**3**	**AIR HANDLING UNIT * AHU-6D FAN-4**	38
39	SPACE ONLY	1	--		--			**1.9**					40
41	SPACE ONLY	1	--			--			**1.9**				42

TOTAL KVA: ϕ A: 18.6 ϕ B: 19.4 ϕ C: 16.8 HIGH ϕ (AMPS): 71 A
TOTAL CONNECTED LOAD (KVA): 54.7 TOTAL LOAD (AMPS): 65.8 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B. +CONNECT TO EXISTING SPARE.
TYPE: SQUARE D NEHB-30435-1 SERIES-E1 480Y/277V, 3Φ/4W, 14kAIC, 125A MLO.

PANELBOARD SCHEDULE

MARK: **2LS2** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	LTG 2S17, 18, 19	1	20 A	1.8			2.6			20 A	1	LTG 2S20, 25, 26	2
3	LTG 2S09, 15	1	20 A		1.6			2.6		20 A	1	LTG 2S21, 22	4
5	LTG 2S01, 02, 06, 07, 08	1	20 A			1.6			2.6	20 A	1	LTG 2S23, 24	6
7	LTG 2S10, 11, 45	1	20 A	1.6			1.6			20 A	1	LTG 2S03, 04, 05, 14, 16	8
9	2S12, 13, 44	1	20 A		1.6			**1.5**		**15 A**	**3**	**OUTSIDE AIR UNIT * OAU-8**	10
11	**AIR HANDLING UNIT * AHU-8A FAN-1**	**3**	**15 A**		**1.2**				**1.5**				12
13				**1.2**			**1.5**						14
15					**1.2**			**2.4**		**15 A**	**3**	**ENERGY RECOVERY UNIT* ERV-8**	16
17	**AIR HANDLING UNIT * AHU-8B FAN-2**	**3**	**15 A**		**1.2**				**2.4**				18
19				**1.2**			**2.4**						20
21					**1.2**			**1.2**		**15 A**	**3**	**AIR HANDLING UNIT * AHU-8D FAN-4**	22
23	**AIR HANDLING UNIT * AHU-8C FAN-3**	**3**	**15 A**		**1.2**				**1.2**				24
25				**1.2**			**1.2**						26
27					**1.2**			--		--	1	SPACE ONLY	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL KVA: ϕ A: 16.1 ϕ B: 14.3 ϕ C: 12.7 HIGH ϕ (AMPS): 59 A
TOTAL CONNECTED LOAD (KVA): 43.2 TOTAL LOAD (AMPS): 51.9 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B. +CONNECT TO EXISTING SPARE.
TYPE: SQUARE D NEHB-30425-1 SERIES-E1 480Y/277V, 3Φ/4W, 14kAIC, 125A MLO.

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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER: DELL CONSULTING, LLC

STAMP: HAROLD LYNN DELL, JR. LICENSED PROFESSIONAL ENGINEER 31887 02-19-2024 STATE OF MISSISSIPPI
Harold Lynn Dell, Jr. 31887

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: SCHEDULES	DRAWING NUMBER: E-702
CHECKED: HLD	DATE: 02/20/24		SHEET 72 OF 74

PANELBOARD SCHEDULE

MARK: **1RN1** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	RECP. 1N29	1	20 A	0.4			0.7			20 A	1	RECP. 1N27	2
3	RECP. 1N28	1	20 A		0.8			0.7		20 A	1	RECP. 1N25	4
5	RECP. 1N30	1	20 A			0.9			1.1	20 A	1	RECP. 1N25, 19	6
7	RECP. 1N30, 32	1	20 A	0.9			0.7			20 A	1	RECP. 1N19	8
9	RECP. 1N32, 34	1	20 A		0.9			0.9		20 A	1	RECP. 1N19	10
11	RECP. 1N34, 36	1	20 A			0.7			0.5	20 A	1	RECP. 1N24 SHREDDER RM112	12
13	RECP. 1N34, 36	1	20 A	0.7			0.9			20 A	1	RECP. 1N42, 35	14
15	RECP. 1N36	1	20 A		0.7			0.8		20 A	1	RECP. 1N31 DF	16
17	RECP. 1N33, 42	1	20 A			0.9			1.0	20 A	1	RECP. 1N42 VENDING	18
19	RECP. 1N42, VENDING	1	20 A	1.0			1.0			20 A	1	RECP. 1N42 VENDING	20
21	RECP. 1N42, VENDING	1	20 A		1.0			1.0		20 A	1	RECP. 1N50 WH 1	22
23	AHU 1N28 CONTROL PANEL.	1	20 A			0.1			1.0	20 A	1	RECP. 1N48 TU	24
25	UH 1	1	20 A	0.1			0.5			20 A	1	TU 1N48	26
27	TU 1N34,42	1	20 A		0.9			0.9		20 A	1	MOTOR 1N28	28
29	TU 1N31,42	1	20 A			0.9			1.2	20 A	1	TU 1N30, 32	30
31	OUTLETS RM	1	20 A	0.0			0.0			20 A	1	PROJECTOR RECP	32
33	OUTLETS RM	1	20 A		0.0			0.0		20 A	1	FIRE ALARM NAC PANEL	34
35	OUTLETS RM	1	20 A			0.0			0.0	20 A	1	OCCUPIED SPACE	36
37	PANEL 1RN2	3	45 A	0.3			**1.3**			**20 A**	**1**	**AIR HANDLING UNIT AHU-1 LTS & REC ***	38
39					0.3			**0.4**		**15 A**	**1**	**120A SOUND MASKING HEAD END ***	40
41						0.3			--	--	**1**	SPACE ONLY	42

TOTAL KVA: ϕ A: 8.5 ϕ B: 9.3 ϕ C: 8.7 HIGH ϕ (AMPS): 78 A
TOTAL CONNECTED LOAD (KVA): 26.5 TOTAL LOAD (AMPS): 73.4 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B.
TYPE: SQUARE D NQOB 45-98951-3 208Y/120V, 3Φ/4W, 10kAIC, 175A MCB.

PANELBOARD SCHEDULE

MARK: **1RS2** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	RECP. 1S17	1	20 A	3.6			0.7			20 A	1	RECP. 1S14	2
3	RECP. 1S16	1	20 A		0.8			0.7		20 A	1	RECP.	4
5	RECP. 1S10	1	20 A			0.9			0.9	20 A	1	RECP.	6
7	RECP. 1S10, 1S08	1	20 A	0.9			0.9			20 A	1	RECP.	8
9	RECP. 1S08	1	20 A		0.9			0.7		20 A	1	RECP. 1S13	10
11	RECP. 1S03	1	20 A			0.7			0.9	20 A	1	RECP. 1S12, 17	12
13	RECP. 1S01	1	20 A	0.9			0.9			20 A	1	RECP. 1S19, 21	14
15	RECP. 1S01, 03	1	20 A		0.9			0.7		20 A	1	RECP. 1S21	16
17	RECP. 1S04, 02	1	20 A			0.7			0.9	20 A	1	RECP. 1S09, 07	18
19	RECP. 1S05	1	20 A	0.9			0.7			20 A	1	RECP. 1S06.05	20
21	RECP. 1S49	1	20 A		0.8			0.7		20 A	1	RECP. 1S06	22
23	RECP. 1S18, 20	1	20 A			0.9			0.1	20 A	1	AHU 4 1S16 CONTROL PANEL.	24
25	RECP. 1S18, 20, 25	1	20 A	0.7			0.1			20 A	1	UH 4 CONTROL PANEL	26
27	RECP. 1S20, 05	1	20 A		0.7			1.0		20 A	1	TU 1S10	28
29	TU 1S49	1	20 A			0.9			0.5	20 A	1	TU 1S08	30
31	TU 1S49	1	20 A	0.8			0.0			20 A	1	AFWAN LAN RM 144	32
33	SPARE	1	20 A		0.0			0.0		20 A	1	AFWAN LAN RM 142	34
35	SPARE	1	20 A			0.0			0.0	20 A	1	AFWAN LAN RM 140	36
37	PANEL 1RS3	3	45 A	2.3			0.0			20 A	1	OCCUPIED SPACE	38
39					2.3			0.0		20 A	1	FA NAC PANEL	40
41						2.3			**1.6**	**20 A**	**1**	**AIR HANDLING UNIT AHU-4 LTS & REC ***	42

TOTAL KVA: ϕ A: 13.4 ϕ B: 10.2 ϕ C: 11.4 HIGH ϕ (AMPS): 113 A
TOTAL CONNECTED LOAD (KVA): 35.0 TOTAL LOAD (AMPS): 97.2 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B.
TYPE: SQUARE D NQOB 45-98951-3 208Y/120V, 3Φ/4W, 10kAIC, 175A MCB.

PANELBOARD SCHEDULE

MARK: **1RN3** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	RECP. 1N13	1	20 A	0.4			0.9			20 A	1	RECP. 1N11, 14	2
3	RECP. 1N12	1	20 A		0.8			0.7		20 A	1	RECP. 1N10	4
5	RECP. 1N07	1	20 A			0.9			0.7	20 A	1	RECP. 1N10, 14	6
7	RECP. 1N07,06	1	20 A	0.9			0.9			20 A	1	RECP. 1N14	8
9	RECP. 1N06,03	1	20 A		0.9			0.5		20 A	1	RECP. 1N17	10
11	RECP. 1N03	1	20 A			0.9			0.9	20 A	1	RECP. 1N09, 08	12
13	RECP. 1N02	1	20 A	0.9			0.9			20 A	1	RECP. 1N15, 14	14
15	RECP. 1N01	1	20 A		0.5			0.1		20 A	1	AHU 3 1N12 CONTROL PANEL	16
17	RECP. 1N05	1	20 A			0.7			0.1	20 A	1	UH 3 1N12	18
19	RECP. 1N05,04	1	20 A	0.7			1.2			20 A	1	TU 1N48, 07	20
21	RECP. 1N45, 45	1	20 A		0.8			1.0		20 A	1	TU 1N48	22
23	TU 1N06, 03	1	20 A			0.9			1.0	20 A	1	WH-3 1N49	24
25	TU 1N01, 05	1	20 A	0.9			0.9			20 A	1	MOTOR 1N12	26
27	POLE OUTLETS	1	20 A		0.0			0.0		20 A	2	OCCUPIED SPACE	28
29	POLE OUTLETS	1	20 A			0.0			0.0				30
31	PNL 1RN4	3	40 A	1.4			0.0			20 A	1	OCCUPIED SPACE	32
33					1.4			0.0		20 A	1	OCCUPIED SPACE	34
35						1.4			**1.3**	**20 A**	**1**	**AIR HANDLING UNIT AHU-3 LTS & REC ***	**36**
37	SPACE ONLY	1	--	--			--			--	**1**	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	**1**	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL KVA: ϕ A: 10.0 ϕ B: 6.8 ϕ C: 8.8 HIGH ϕ (AMPS): 86 A
TOTAL CONNECTED LOAD (KVA): 25.6 TOTAL LOAD (AMPS): 71.1 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B.
TYPE: SQUARE D NQOB 45-98951-3 208Y/120V, 3Φ/4W, 10kAIC, 175A MCB.

PANELBOARD SCHEDULE

MARK: **2RNB1** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	RECP. 2N11	1	20 A	0.4			0.4			20 A	1	RECP. 2N07	2
3	RECP. 2N10	1	20 A		1.0			0.4		20 A	1	RECP. 2N06	4
5	RECP. 2N09	1	20 A			1.0			0.4	20 A	1	RECP. 2N04	6
7	RECP. 2N08	1	20 A	1.0			0.4			20 A	1	RECP. 2N03	8
9	RECP. 2N08, 05	1	20 A		1.0			1.0		20 A	1	RECP. 2N17, 18	10
11	RECP. 2N05, 01	1	20 A			1.0			0.7	20 A	1	RECP. 2N17, 15	12
13	RECP. 2N01	1	20 A	0.7			0.7			20 A	1	RECP. 2N17, 15	14
15	RECP. 2N01	1	20 A		0.5			0.7		20 A	1	ROOF NW EF2	16
17	RECP. 2N03, 02	1	20 A			0.5			0.5	20 A	1	RECP. 2N06	18
19	RECP. 2N39 DF	1	20 A	0.8			0.7			20 A	1	RECP. 2N04, 39	20
21	AHU 7 2N10 CONTROL PNL	1	20 A		0.1			0.8		20 A	1	2N12 TU	22
23	UH 7	1	20 A			0.1			1.0	20 A	1	2N12 TU	24
25	TU 2N05	1	20 A	1.0			0.9			20 A	1	OCCUPIED SPACE	26
27	TU 2N05	1	20 A		1.0			0.7		20 A	1	RECP. 2NO1	28
29	2N01, 03	1	20 A			1.2			0.5	20 A	1	RECP. 2NO1	30
31	2N41	1	20 A	1.0			1.0			20 A	1	2N09 TU	32
33	2N41	1	20 A		1.9			0.5		20 A	1	2N13 TU	34
35	SPARE	1	20 A			0.0			0.0	20 A	1	FA NAC PANELS	36
37	SPARE	1	20 A	0.0			0.0			20 A	1	OCCUPIED SPACE	38
39	SPACE ONLY	1	--		--			**1.3**		**20 A**	**1**	**AIR HANDLING UNIT AHU-7 LTS & REC ***	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL KVA: ϕ A: 8.9 ϕ B: 10.9 ϕ C: 7.0 HIGH ϕ (AMPS): 93 A
TOTAL CONNECTED LOAD (KVA): 26.8 TOTAL LOAD (AMPS): 74.4 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B.
TYPE: SQUARE D NQOB 45-98951-3 208Y/120V, 3Φ/4W, 10kAIC, 175A MCB.

PANELBOARD SCHEDULE

MARK: **2RSA1** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	RECP. 2S34	1	20 A	0.4			1.1			20 A	1	RECP. 2S51	2
3	RECP. 2S33	1	20 A		0.8			0.9		20 A	1	RECP. 2S31, 49	4
5	RECP. 2S35	1	20 A			0.9			1.1	20 A	1	RECP. 2S28, 32	6
7	RECP. 2S35, 36	1	20 A	0.9			0.9			20 A	1	RECP. 2S28, 27, 50	8
9	RECP. 2S36, 37	1	20 A		0.9			1.1		20 A	1	RECP. 2S28, 29	10
11	RECP. 2S37, 39, 52	1	20 A			1.1			0.0	20 A	1	SPARE	12
13	RECP. 2S39, 40	1	20 A	1.1			0.0			20 A	1	SPARE	14
15	DF 2S52	1	20 A		0.8			0.1		20 A	1	AHU-6 2S33 CONTROL PANEL	16
17	DF 2S52	1	20 A			0.8			0.1	20 A	1	UH 6	18
19	TU 2S32	1	20 A	1.0			1.0			20 A	1	TU 2S36	20
21	TU 2S32	1	20 A		1.0			1.0		20 A	1	RECP. 2S37	22
23	RECP. 2S35	1	20 A			1.0			0.8	20 A	1	RECP. 2S52	24
25	RECP. 2S31	1	20 A	1.0			1.9			20 A	1	RECP. 2S42	26
27	RECP. 2S47	1	20 A		1.9			1.9		20 A	1	RECP. 2S43	28
29	RECP. 2S49	1	20 A			1.9			1.9	20 A	1	RECP. 2S49	30
31	RECP. 2S50	1	20 A	1.0			0.0			20 A	1	PAD 6 FA NAC PANEL	32
33	RECP. 2S50	1	20 A		1.0			0.0		20 A	1	SPARE	34
35	SPARE	1	20 A			0.0			0.0	20 A	1	SPARE	36
37	**AIR HANDLING UNIT AHU-6 LTS & REC ***	**1**	**20 A**	**1.3**			--			--	1	SPACE ONLY	38
39	SPACE ONLY	1	--		--			--		--	1	SPACE ONLY	40
41	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	42

TOTAL KVA: ϕ A: 11.5 ϕ B: 11.4 ϕ C: 9.6 HIGH ϕ (AMPS): 98 A
TOTAL CONNECTED LOAD (KVA): 32.5 TOTAL LOAD (AMPS): 90.2 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B.
TYPE: SQUARE D NQOB 42438-2-E1 208Y/120V, 3Φ/4W, 10kAIC, 225A MCB.

PANELBOARD SCHEDULE

MARK: **2RNA1** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	RECP. 2N27	1	20 A	0.4			0.7			20 A	1	RECP. 2N43, 25	2
3	RECP. 2N26	1	20 A		0.8			0.9		20 A	1	RECP. 2N24, 41	4
5	RECP. 2N28	1	20 A			1.1			0.9	20 A	1	RECP. 2N20, 24, 25	6
7	RECP. 2N29, 31	1	20 A	0.9			0.9			20 A	1	RECP. 2N20, 21	8
9	RECP. RM 224 FRONT	1	20 A		0.0			0.9		20 A	1	RECP. 2N19, 20, 42	10
11	RECP. 224 SIDE WALLS	1	20 A			0.9			0.7	20 A	1	RECP. 2N21, 24	12
13	RECP. RM224, 255	1	20 A	0.9			0.7			20 A	1	RECP. 2N30, 33	14
15	RECP. 2N30 VENDING	1	20 A		1.0			0.8		20 A	1	2N44 DF	16
17	RECP. 2N30 VENDING	1	20 A			1.0			0.8	20 A	1	2N44 DF	18
19	RECP. 2N30 VENDING	1	20 A	1.0			0.1			20 A	1	AHU-5 2N26 CONTROL PANEL	20
21	RECP. 2N30 VENDING	1	20 A		1.0			0.1		20 A	1	HU-5 2N26 CONTROL PANEL	22
23	TU 2N25	1	20 A			0.0			1.0	20 A	1	TU 2N28	24
25	TU 2N25	1	20 A	0.0			1.0			20 A	1	2N24	26
27	2N41	1	20 A		1.0			1.0		20 A	1	2N42	28
29	2N41	1	20 A			1.9			1.0	20 A	1	2N42	30
31	2N31	1	20 A	1.9			0.0			20 A	1	LTS KITCHEN	32
33	LTS RM 244	1	20 A		0.0			0.0		20 A	1	RECP. RM 224 FRONT	34
35	RECP. RM 225	1	20 A			0.0			0.0	20 A	1	RECP. RM 225	36
37	RECP. RM 225	1	20 A	0.0			0.0			20 A	1	RECP. RM 225	38
39	RECP. RM 225	1	20 A		0.0			0.0		20 A	1	RECP. RM 225	40
41	**AIR HANDLING UNIT AHU-1 LTS & REC ***	**1**	**20 A**			**1.3**			0.0	20 A	1	FA NAC PANEL	42

TOTAL KVA: ϕ A: 8.5 ϕ B: 7.5 ϕ C: 10.6 HIGH ϕ (AMPS): 90 A
TOTAL CONNECTED LOAD (KVA): 26.6 TOTAL LOAD (AMPS): 73.7 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B.
TYPE: SQUARE D NQOB 42438-2-E1 208Y/120V, 3Φ/4W, 10kAIC, 100A MLO.

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FIRE PROTECTION ENGINEERING:
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MECHANICAL, ELECTRICAL, & TELECOMM ENGINEER:
DELL CONSULTING, LLC

STAMP
HOLD "LYNN DELL" JR. LICENSED PROFESSIONAL ENGINEER 31887 02-19-2024 STATE OF MISSISSIPPI
Harold Lynn Dell, Jr. 31887

REVISION	DATE	DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: SCHEDULES	DRAWING NUMBER: E-703
CHECKED: HLD	DATE: 02/20/24		SHEET 73 OF 74

PANELBOARD SCHEDULE

MARK: **2LN1**

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	**LTG 2N26, 27, 28, 29**	**1**	**20 A**	**2.4**			**2.6**			**20 A**	**1**	**LTG 2N19, 20, 25,**	2
3	**LTG 2N31, 48**	**1**	**20 A**		**2.2**			**2.6**		**20 A**	**1**	**LTG 2N21, 24**	4
5	**LTG 2N23, 30**	**1**	**20 A**			**1.8**			**2.4**	**20 A**	**1**	**LTG 2N33, 24**	6
7	**LTG 2N22**	**1**	**20 A**	**1.6**			**1.9**			**20 A**	**1**	**LTG 2N35, 36, 49**	8
9	OUTSIDE AIR UNIT				2.2			2.4				ENERGY RECOVERY UNIT	10
11	OAU-5	3	15 A			2.2			2.4	15 A	3	ERV-5	12
13				2.2			2.4						14
15	AIR HANDLING UNIT				1.9			**0.4**					16
17	AHU-5A	3	15 A			1.9			**0.4**	**20 A**	**3**	**EF 1 ROOF NE**	18
19	FAN-1			1.9			**0.4**						20
21	AIR HANDLING UNIT				1.9			0.0		20 A	1	SPARE	22
23	AHU-5B	3	15 A			1.9			0.0	20 A	1	SPARE	24
25	FAN-2			1.9			0.0			20 A	1	SPARE	26
27	AIR HANDLING UNIT				1.9			--		--	1	SPACE ONLY	28
29	AHU-5C	3	15 A			1.9			--	--	1	SPACE ONLY	30
31	FAN-3			1.9			--			--	1	SPACE ONLY	32
33	AIR HANDLING UNIT				1.9			--		--	1	SPACE ONLY	34
35	AHU-5D	3	15 A			1.9			--	--	1	SPACE ONLY	36
37	FAN-4			1.9			--			--	1	SPACE ONLY	38
39	SPARE	1	20 A		0.0			--		--	1	SPACE ONLY	40
41	SPARE	1	20 A			0.0			--	--	1	SPACE ONLY	42

TOTAL KVA: ϕ A: 20.9 ϕ B: 17.1 ϕ C: 16.5 HIGH ϕ (AMPS): 76 A
TOTAL CONNECTED LOAD (KVA): 54.5 TOTAL LOAD (AMPS): 65.6 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
BOLD INDICATES EXISTING CIRCUIT TO BE RECONNECTED.
TYPE: SQUARE D NEHB-30425-1 SERIES-E1 480Y/277V, 3Φ/4W, 14kAIC, 125A MLO.

PANELBOARD SCHEDULE

MARK: **2RSB1** EXISTING PANELBOARD

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	RECP. 2S19	1	20 A	0.4			0.9			20 A	1	RECP. 2S20, 25	2
3	RECP. 2S18	1	20 A		0.8			1.1		20 A	1	RECP. 2S25	4
5	RECP. 2S17	1	20 A			1.1			0.4	20 A	1	RECP. 2S16 ADPE	6
7	RECP. 2S15	1	20 A	1.1			0.4			20 A	1	RECP. 2S14 ADPE	8
9	SPARE	1	20 A		0.0			1.3		20 A	1	RECP. 2S21, 49	10
11	RECP. 2S08, 09	1	20 A			1.1			1.1	20 A	1	RECP. 2S22	12
13	RECP. 2S06, 01	1	20 A	1.3			0.9			20 A	1	RECP. 2S16, 14	14
15	RECP. 2S02, 07	1	20 A		1.1			0.9		20 A	1	RECP. 2S14, 05, 46	16
17	AHU-8 2S18 CONTROL PANEL	1	20 A			0.1			0.7	20 A	1	RECP. 2S04, 03	18
19	UH-8 2S18	1	20 A	0.1			0.8			20 A	1	RECP. 2S46 D-F	20
21	TU 2S20	1	20 A		1.0			1.0		20 A	1	TU 2S15	22
23	TU 2S20	1	20 A			1.0			0.9	20 A	1	TU 2S46	24
25	TU 2S17	1	20 A	1.0			0.5			20 A	1	TU 2S49	26
27	TU 2S21	1	20 A		1.0			0.8		20 A	1	TU 2S46	28
29	RECP. 2S09 ADPE	1	20 A			0.4			0.4	20 A	1	RECP. 2S07 ADPE	30
31	RECP. 2S08 ADPE	1	20 A	0.4			0.4			20 A	1	RECP. 2S02	32
33	RECP. 2S06 ADPE	1	20 A		0.4			0.4		20 A	1	RECP. 2S01	34
35	RECP. 2S05 ADPE	1	20 A			0.4			1.9	20 A	1	TU 2S45	36
37	RECP. 2S04 ADPE	1	20 A	0.4			1.9			20 A	1	TU 2S44	38
39	**AIR HANDLING UNIT AHU-8 LTS & REC ***	**1**	**20 A**		**1.3**			--		--	1	SPACE ONLY	40
41	FA PAD 4	1	20 A			0.0			--	--	1	SPACE ONLY	42

TOTAL KVA: ϕ A: 10.5 ϕ B: 11.0 ϕ C: 9.5 HIGH ϕ (AMPS): 93 A
TOTAL CONNECTED LOAD (KVA): 31.0 TOTAL LOAD (AMPS): 86.1 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD.*PROVIDE NEW C/B.
TYPE: SQUARE D NQOB 42438-2-E1 208Y/120V, 3Φ/4W, 10kAIC, 225A MCB.

PANELBOARD SCHEDULE

MARK: **LP**

CKT #	LOAD DESCRIPTION	BREAKER P	BREAKER TRIP	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	PHASE (kVA) A	PHASE (kVA) B	PHASE (kVA) C	BREAKER TRIP	BREAKER P	LOAD DESCRIPTION	CKT #
1	LTG 1S51	1	20 A	1.2			1.2			20 A	1	LTG 2S53	2
3	LTG 1S51, 52	1	20 A		1.2			1.2		20 A	1	LTG 2S53, 2S48	4
5	LTG 1S52	1	20 A			1.2			1.2	20 A	1	LTG 2S48	6
7	LTG 1C07	1	20 A	1.2			1.2			20 A	1	LTG 2C03	8
9	LTG 1C07	1	20 A		1.2			1.2		20 A	1	LTG 2C03	10
11	LTG 1C06	1	20 A			1.2			1.2	20 A	1	LTG 2C02	12
13	LTG 1C06	1	20 A	1.2			1.2			20 A	1	LTG 2C02	14
15	LTG 1N47	1	20 A		1.2			1.2		20 A	1	LTG 2N32	16
17	LTG 1N47, 1N47	1	20 A			1.2			1.2	20 A	1	LTG 2N32, 2N45	18
19	LTG 1N44	1	20 A	1.2			1.2			20 A	1	LTG 2N45	20
21	LTG 1C04	1	20 A		0.5			0.0		20 A	1	SPARE	22
23	LTG 1C05	1	20 A			0.5			0.0	20 A	1	FACP	24
25	SPACE ONLY	**1**	**--**	**--**			**1.4**			**15 A**	**1**	**ELEV-1 CAB LIGHTING***	26
27	SPACE ONLY	1	--		--			**0.1**		**15 A**	**1**	**LTG ELEVATOR PIT***	28
29	SPACE ONLY	1	--			--			--	--	1	SPACE ONLY	30

TOTAL KVA: ϕ A: 11.0 ϕ B: 7.8 ϕ C: 7.7 HIGH ϕ (AMPS): 92 A
TOTAL CONNECTED LOAD (KVA): 26.4 TOTAL LOAD (AMPS): 73.3 A

CREATE A DIRECTORY TO INDICATE INSTALLED LOADS. INDICATE LOAD TYPE (REC, LTG, AHU-1, ETC), AND ROOM NO. SERVED FOR EVERY BRANCH CIRCUIT.

NOTES:
NEW WORK INDICATED AS BOLD. PROVIDE NEW C/B*
TYPE: SQUARE D NQOB-30429-1-E1 208Y/120V, 3Φ/4W, 10kAIC, 100A MLO.

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	LAMP TYPE	LAMP #	LAMP WATTS	TOTAL WATTS	VOLTAGE	MOUNTING	NOTES
EPL	LITHONIA VAP 59 LED 35 SYM KENALL DAY-BRITE	LED 40k	N/A	59 W	59 W	120 V	WALL IN ELEVATOR PIT	WET LOCATION LISTED, IP65, UV-STABILIZED, IMPACT-RESISTANT, POLYCARBONATE HOUSING WITH COUNTINUOUS CLOSED-CELL GASKET. UV-STABILIZED, INJECTION-MOLDED, IMPACT-RESISTANT, CLEAR TRANSPARENT, POLYCARBONATE LENS WITH RIBBING, PAINTED AFTER FAB, LM85 RATED LIFE OF 60,000 HOURS, 5-YEAR WARRANTY.

NOTES: SEE SPECIFICATIONS FOR APPROVED BALLAST MANUFACTURERS.
FIXTURES WITH HALF FILLED IN CENTER SHALL BE PROVIDED WITH A BATTERY PACK. SEE PLANS FOR QUANTITY.
PRIOR APPROVALS MUST BE SUBMITTED TO THE ENGINEER 14 DAYS PRIOR TO BID DATE FOR REVIEW.

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DELL CONSULTING, LLC

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HAROLD LYNN DELL, JR. LICENSED PROFESSIONAL ENGINEER 31887 12-19-2023 STATE OF MISSISSIPPI
Harold Lynn Dell, Jr. 31887

REVISION	DATE		DRAWN	APPROVED

UNITED STATES AIR FORCE — KEESLER AIR FORCE BASE — AIR EDUCATION AND TRAINING COMMAND
BILOXI — OFFICE OF CIVIL ENGINEERS — MISSISSIPPI

MAHG 171095 REPAIR STENNIS HALL

SUBMITTED: (Chief of Contracts Design)	RECOMMENDED: (Chief of Engineering) G. REED	FACILITY NUMBER: B1002
DRAWN: GG	PROJECT NUMBER: MAHG 17-1095	SHEET NAME: SCHEDULES	DRAWING NUMBER: E-704
CHECKED: HLD	DATE: 02/20/24		SHEET 74 OF 74