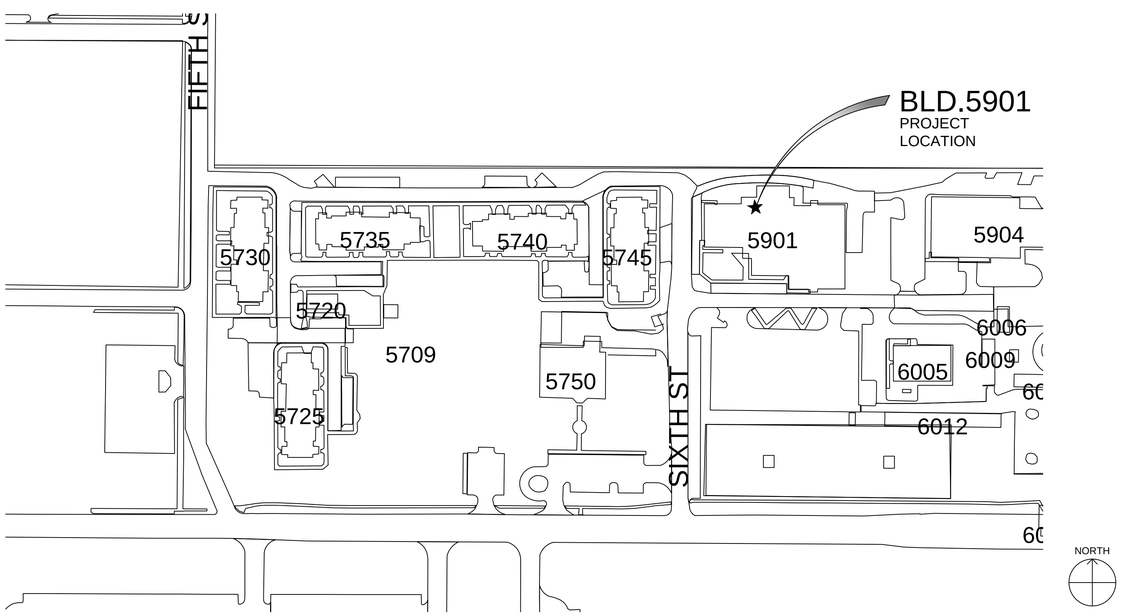
KEESLER AIR FORCE BASE BILOXI, MS
RENOVATE ARNOLD HALL FOR SWING SPACE, B5901
PROJECT NUMBER: MAHG241108

ISSUE DATE: MARCH, 2026



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MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: C.REED & SMA
SUBMITTED BY:
SIZE: ANSI-D

81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

COVER SHEET

SHEET ID
G-001

100% DESIGN SUBMITTAL

PROJECT ABBREVIATIONS

THE FOLLOWING ABBREVIATIONS ON THIS SHEET APPLY TO ALL SHEETS IN THESE DOCUMENTS

A	ACOUS	ACOUSTICAL
	A/C	AIR CONDITIONING
	A.C.T.	ACOUSTICAL CEILING TILE
	A.T.	ACOUSTICAL TILE
	A.F.F.	ABOVE FINISHED FLOOR
	ADJ.	ADJUSTABLE
	AL. or ALT.	ALTERNATE
	&	AND
	APPROX.	APPROXIMATE
	ARCH.	ARCHITECTURAL
	A.D.	AREA DRAIN
	ASPH.	ASPHALT
	@	AT
	∠	ANGLE
B	BM.	BEAM
	B.M.	BENCH MARK
	BIT.	BITUMINOUS
	BLK.	BLOCKING
	BD.	BOARD
	B.O.C.	BOTTOM OF CURB
	BOT.	BOTTOM
	BLDG.	BUILDING
	B.U. or B/U	BUILT UP
C	CPT.	CARPET
	C.B.	CATCH BASIN
	C.O.	CLEAN OUT
	CLG.	CEILING
	CEM.	CEMENT
	℄ or CL.	CENTERLINE
	C.T.	CERAMIC TILE
	[or CH.	CHANNEL
	COL.	COLUMN
	CONC.	CONCRETE
	C.M.U.	CONCRETE MASONRY UNIT
	CONT.	CONTINUOUS
	C.J.	CONTROL JOINT
	CONF.	CONFERENCE
	C.R. CH.	COLD ROLL CHANNEL
D	DP.	DAMPPROOFING
	DET.	DETAIL
	DIA.	DIAMETER
	DIM.	DIMENSION
	DS.	DOWNSPOUT
	DWGS.	DRAWINGS
E	E.R.D.	EMERGENCY ROOF DRAIN
	E.	ELEVATOR
	EA.	EACH
	ELEC.	ELECTRICAL
	E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM
	ELEV. or EL.	ELEVATION
	E.J. or EXP. JT.	EXPANSION JOINT
	EQ.	EQUAL
	EQUIP.	EQUIPMENT
	EXP.	EXPANSION
	EXIST.	EXISTING
	EXT.	EXTERIOR
F	FIN.	FINISH
	FIN. FL.	FINISH FLOOR
	F.H.C.	FIRE HOSE CABINET
	F.H.	FIRE HYDRANT
	F.E.	FIRE EXTINGUISHER
	F.E.C.	FIRE EXTINGUISHER CABINET
	FL.	FLOOR
	F.D.	FLOOR DRAIN
	FTG.	FOOTING
	F.S.	FULL SIZE
	FURR	FURRING
G	GALV.	GALVANIZED
	GA.	GAUGE
	GL.	GLASS
	G.B.	GRAB BAR
	GYP.	GYPSUM
	GYP.BD.	GYPSUM BOARD
	G.C.	GENERAL CONTRACTOR
H	HCP OR H/C	HANDICAP
	HDW.	HARDWARE
	HGT.OR HT.	HEIGHT
	H.C.	HOLLOW CORE
	H.M.	HOLLOW METAL
	HORIZ.	HORIZONTAL
	H.B.	HOSE BIB
	HVAC.	HEATING VENTING AIR CONDITIONING
I	I.D.	INSIDE DIAMETER (DIM.)
	INSUL.	INSULATION
	INT.	INTERIOR
	INV.	INVERT
J	JAN.	JANITOR
	J.B.	JOIST BEARING
	JT.	JOINT
L	LAM.	LAMINATE
	L.A.T.	LAY IN ACOUSTICAL TILE
	LT. OR WT.	LIGHT WEIGHT
M	MTL.	METAL
	M.H.	MOP HANGER
	MH.	MANHOLE
	M.O.	MASONRY OPENING
	MIN	MINIMUM
	MLWK	MILLWORK
M	MAX.	MAXIMUM
	MECH.	MECHANICAL
	MEMB.	MEMBRANE
	MISC.	MISCELLANEOUS
	M.R. GYP.BD.	MOISTURE RESISTANT
	MTD.	MOUNTED
N	NOM.	NOMINAL
	N.I.C.	NOT IN CONTRACT
	NO. OR #	NUMBER
	N.T.S.	NOT TO SCALE
O	O.C.	ON CENTER
	OPNG	OPENING
	OH.	OVERHEAD
	OPP.	OPPOSITE
	O.D.	OUTSIDE DIAMETER (DIM.)
P	PTD.	PAINTED
	PR.	PAIR
	PTN. OR PNT	PARTITION
	PVMT.	PAVEMENT
	PLAS.	PLASTER
	PL.	PLATE
	POL.	POLISHED
	LBS.	POUNDS
	P.I.P.	POURED IN PLACE
	PRE-FAB.	PRE FABRICATED
	PC. CONC.	PRECAST CONCRETE
	P.T.D.	PAPER TOWEL DISPENSER
	P.LAM	PLASTIC LAMINATE
	PWD.	PLYWOOD
	ℙ OR P.L.	PROPERTY LINE
	PT	PORCELAIN TILE
	PLUM	PLUMBING
	PLYWD	PLYWOOD
R	RAD.	RADIUS
	REF.	REFERENCE
	R.C.P.	REINFORCED CONCRETE PIPE
	REINF.	REINFORCEMENT
	REQ.	REQUIRED
	RESIL.	RESILIENT
	R.	RISER
	R.D.	ROOF DRAIN
	RM.	ROOM
	ϕ OR RD.	ROUND
	R.B.	RUBBER BASE
S	S.N.D.	SANITARY NAPKIN DISPENSER
	SLT.	SEALANT
	SEC.	SECURITY
	SEC. GL,	SECURITY GLASS
	S.H.M.	SECURITY HOLLOW METAL
	SER . S.	SERVICE SINK
	SCHD.	SCHEDULE
	SHT.	SHEET
	S.V.	SHEET VINYL
	SIM.	SIMILAR
	S.D.	SOAP DISPENSER
	S.C.	SOLID CORE
	SPEC.	SPECIFICATION
	SQ/	SQUARE
	SQ. FT.	SQUARE FEET
	STD.	STANDARD
	S.ST.	STAINLESS STEEL
	STL.	STEEL
	STOR.	STORAGE
	ST. DR.	STORM DRAIN
	STRUCT.	STRUCTURAL
	SUSP.	SUSPENDED
	SYM.	SYMMETRICAL
T	TELE.	TELEPHONE
	T'HOLD	THRESHOLD
	TLT.	TOILET
	T.P.H.	TOILET PAPER HOLDER
	T.O.C.	TOP OF CURB
	T.O.S.	TOP OF STEEL
	T.B.	TOWEL BAR
	T.	TREAD
	TRT'D	TREATED
	TYP.	TYPICAL
	T.O.W.	TOP OF WALL
U	U.N.O.	UNLESS NOTED OTHERWISE
V	V.B.	VINYL BASE
	V.C.T.	VINYL COMPOSITION TILE
	V.W.C.	VINYL WALL COVERING
	VERT.	VERTICAL
	VEST.	VESTIBULE
	V.T.J.	VERIFY ON JOBSITE
	V.T.R.	VENT THRU ROOF
	VNYL	VINYL
W	W.H.	WATER HEATER
	W.P.	WATER PROOF
	W.W.M.	WELDED WIRE MESH
	W.GL	WIRE GLASS
	W.C.	WATER CLOSET
	W/	WITH
	W/O	WITHOUT
	WSCT	WAINSCOT
	WT.	WEIGHT
	WD	WOOD
	WK PT	WORKING POINT

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED ACCORDING TO UFC 1_200_01_2022_C3, AND ALL LOCAL, STATE, AND FEDERAL CODES (IBC, AFI, NAPA, NEC, AND ABA).
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BID AND START OF CONSTRUCTION. NOTIFY CONTRACTING OFFICER OF ANY CONDITIONS DETRIMENTAL TO THE COMPLETION OF THE WORK AS DESIGNED.
3. CONTRACTOR SHALL PROTECT ALL ELEMENTS TO REMAIN SUCH AS FIRE ALARM COMPONENTS, FIRE EXTINGUISHER CABINETS, SPRINKLER HEADS, WINDOW SILLS, AND OTHER EQUIPMENT OR FINISHES PROTECT FROM DUST, PAINT, AND CONSTRUCTION DEBRIS DURING CONSTRUCTION. CONTRACTOR SHALL REPLACE OR CLEAN IN PLACE ANY DAMAGED OR CONTAMINATED ITEMS.
4. CONTRACTOR SHALL CONFINE ALL WORK TO SPECIFIC AREAS AS DESIGNATED IN THE SCOPE OF WORK AND SCHEDULE. MAINTAIN EGRESS PATH THROUGHOUT CONSTRUCTION.
5. ALL MATERIALS TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE AND DISPOSED OF OFF-SITE IN A LEGAL LANDFILL. CONTRACTOR IS NOT ALLOWED TO STOCKPILE DEMOLITION MATERIALS ON SITE; ALL MATERIALS TO BE REMOVED IN A TIMELY FASHION.
6. CONTRACTOR SHALL PROVIDE CONSTANT DAILY CLEANING OF THE WORK AREA.
7. CONTRACTOR TO PROVIDE 5% STOCK OF FLOORING AND ACCESSORIES TO CUSTOMER FOR REPAIR AND MAINTENANCE USE.
8. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR/REPLACEMENT OF ITEMS DAMAGED DURING CONSTRUCTION AT THEIR OWN COST.
9. ALL DIMENSIONS ARE FROM FACE OF WALL TO FACE OF WALL UNLESS OTHERWISE NOTED.

GENERAL DEMOLITION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL ACTIONS AND CONDUCT OF THEIR EMPLOYEES, SUB CONTRACTORS, VENDORS, AND SUPPLIERS WHILE ON BASE.
2. CONTRACTOR SHALL NOT USE ANY PLUMBING FIXTURE, FLOOR DRAIN, CATCH BASIN FOR DISPOSAL OF LIQUID WASTE OR SPENT LIQUIDS SUCH AS PAINT, SOLVENTS, ETC. THIS ACTION IS STRICTLY PROHIBITED.
3. CONTRACTOR AND SUB CONTRACTORS SHALL COORDINATE WITH THE CONTRACTING OFFICER, ANY DEMOLITION OR NEW CONSTRUCTION WORK WHICH WILL PRODUCE ABNORMALLY LOUD NOISE OR NOXIOUS FUMES AND ODORS.
4. THE CONTRACTING OFFICER. SHALL HAVE FIRST RIGHTS OF REFUSAL FOR ALL RECYCLABLE MATERIALS SUCH AS SCRAP ALUMINUM, CEILING GRIDS, COPPER PIPING TUBING, ETC.
5. CONTRACTOR SHALL NOT LEAVE UNATTENDED ANY OPENINGS IN BUILDING ENVELOPE (NEW OR EXISTING) THAT IS NOT WEATHER-TIGHT. OPENINGS IN BUILDING ENVELOPE LEFT OPEN FOR ANY EXTENDED PERIOD, SHALL BE COMPLETELY COVERED/ SEALED AGAINST INFILTRATION OF OUTSIDE AIR, RAIN, WATER, WEATHER, DUST/ DIRT, INSECTS AND RODENTS.

GENERAL NEW CONSTRUCTION NOTES

1. THE CONSTRUCTION DOCUMENTS, WHICH INCLUDE ALL DRAWINGS, SOW & SPECIFICATIONS. DESCRIBE A COMPLETE PROJECT. THE GENERAL CONTRACTOR SHALL PROVIDE THE GOVERNMENT WITH A USABLE AND WORKING PRODUCT. IF THERE IS A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS AND/OR STATEMENT OF WORK WITH NO CLARIFICATION ISSUED, THE BIDDER SHALL BID THE MORE STRINGENT PRODUCT OR APPLICATION.
2. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER REQUIREMENTS, INSTRUCTIONS, AND RECOMMENDATIONS FOR INSTALLATION AND WARRANTY OF ALL MATERIAL USED ON THIS PROJECT. MANUFACTURER WARRANTIES SHALL BE ISSUED WHERE WARRANTIES ARE AVAILABLE. ALL PROJECT WORK SHALL USE MANUFACTURER APPROVED AND COMPATIBLE MATERIALS AND METHODS, INCLUDING ADHESIVES, SEALANTS, SOLVENTS, ETC.
3. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIAL FROM THE PROJECT BUILDINGS AND SITE. ADJACENT SPACES SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AND FINISH. GLASS SHALL BE CLEANED. CONSTRUCTION DUST SHALL BE CLEANED AND REMOVED FROM ALL SURFACES.
4. CONTRACTOR(S) SHALL COORDINATE WITH THE CONTRACTING OFFICER OF AN AREA TO BE USED FOR CLEANING OF TOOLS AND EQUIPMENT LAYDOWN AREA, PORTABLE RESTROOMS AND CONTRACTOR PARKING.
5. ALL DEBRIS CREATED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH BASE STANDARDS AND REQUIREMENTS AS SPECIFIED.

GENERAL ARCHITECTURAL LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
1.	GENERAL & SPECIFIC NOTE - DEMO & NEW CONSTRUCTION
1	DEMOLITION NOTE
1	KEYED DEMOLITION AND NEW WORK NOTES
ⓔ	ACCESSORY IDENTIFIER SYMBOL
A	EQUIPMENT IDENTIFIER SYMBOL
X	WINDOW IDENTIFIER SYMBOL
113A	NEW DOOR IDENTIFIER SYMBOL
EX	EXISTING DOOR TAG,
1	DOOR IDENTIFIER SYMBOL
1	DOOR LEAF IDENTIFIER SYMBOL
1	WALL TYPE IDENTIFIER SYMBOL
STO	ROOM NAME
100E	ROOM NUMBER
XXSF	AREA OF SPACE
	EXISTING & NEW WALL TYPE, SEE SHT. WALL LEGEND FOR DETAILS
X / AX	ELEV. NO. / SHT. NO. — ELEVATION MARKER
X / AX.X	DETAIL. NO. / SHT. NO. — PLAN/ DETAIL/ SECTION MARKER
X	SHT DWG. DISCRIPTION — SCALE : SCALE
	EXISTING SPRINKLER HEAD
X / AX	CALLOUT PLAN, SECTION, OR DETAIL
1 / A	COL. GRID LINES

MARK	DESCRIPTION	DATE

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: CHRISTOPHER A. SMA
SUBMITTED BY:
SIZE: ANSI-D
ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

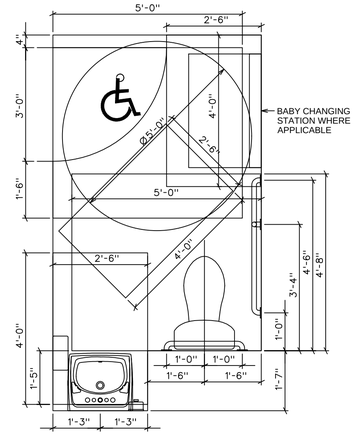
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

ABBREVIATIONS-SYMBOLS AND GENERAL NOTES

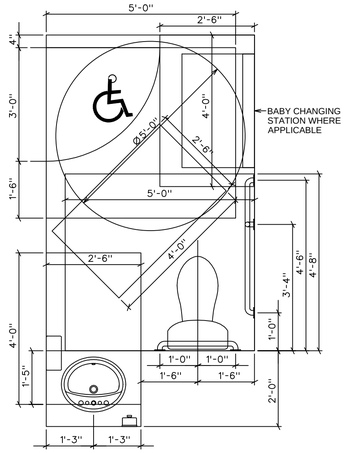
SHEET ID
G-002

100% DESIGN SUBMITTAL



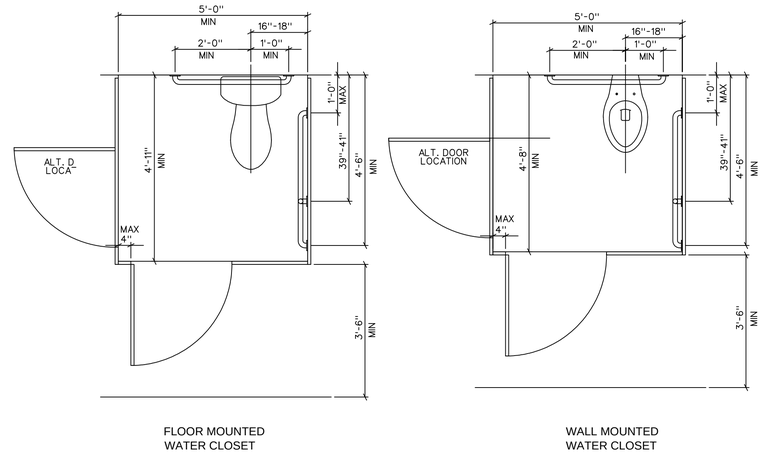
TYPICAL FIXTURE AND DOOR CLEARANCES

OVERLAPS AS PROVIDED IN ABA

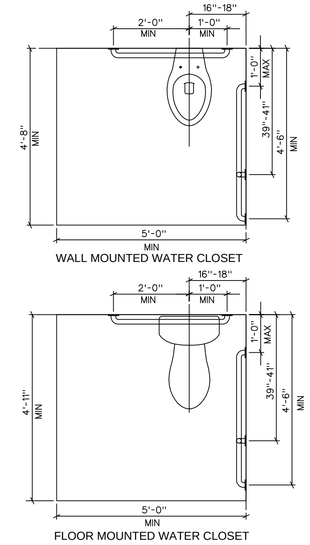


TYPICAL FIXTURE AND DOOR CLEARANCES

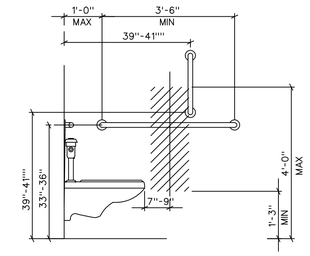
OVERLAPS AS PROVIDED IN ABA



WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT AND GRAB BARS

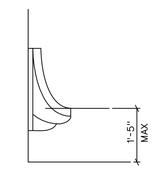


WATER CLOSET AND GRAB BARS

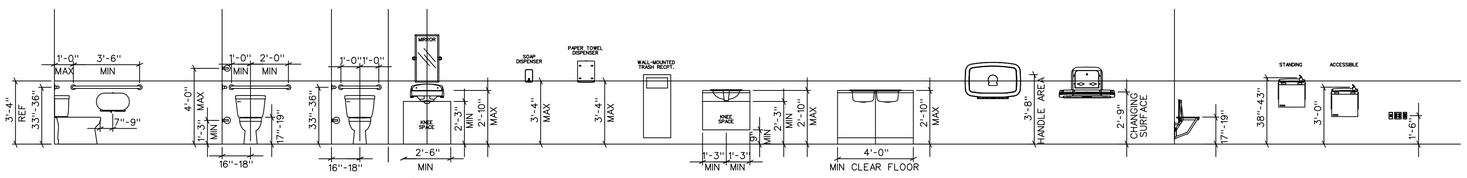


GRAB BARS AND DISPENSER LOCATION

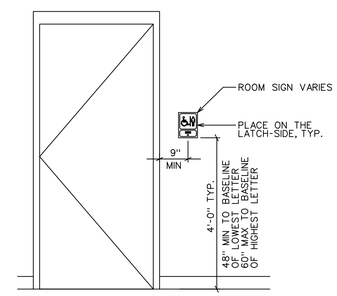
ADA - 604.5 - 604.7



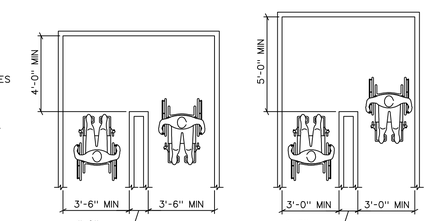
URINAL



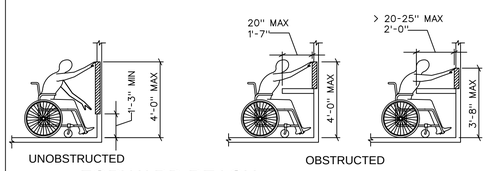
MOUNTING LOCATIONS, HEIGHTS, AND CLEARANCES FOR ACCESSIBILITY



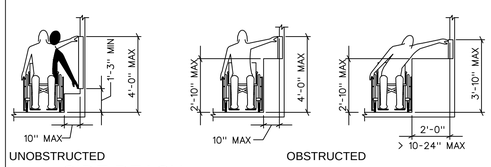
DOOR SIGN MOUNTING



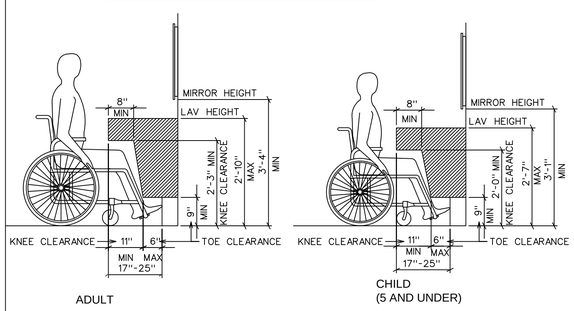
CLEAR WIDTH OF ROUTE AT TURN



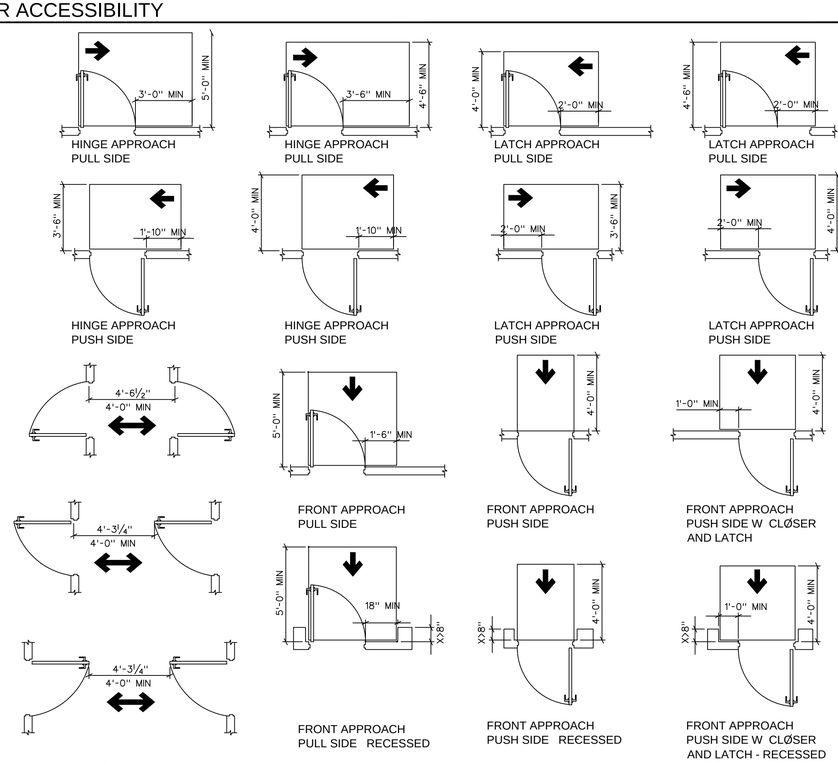
FORWARD REACH



SIDE REACH



LAVATORY CLEARANCES



DOORS IN SERIES

MANEUVERING CLEARANCES AT DOORS

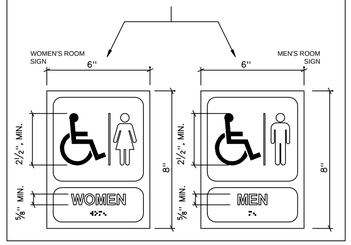
ABA TOILET & ROOM SIGNS

ABA SIGNAGE BY GENERAL CONTRACTOR PER ABA REQ.

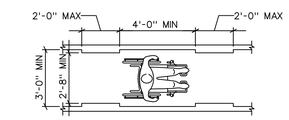
NOTE: SIGNS WITH PICTOGRAPHS
APPROX. 6" X 6" (MIN.) PLASTIC SIGN W/ RAISED SYMBOL OF ACCESSIBILITY W/ 1:1 WIDTH TO HEIGHT RATIO AND A STROKE-WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10 MOUNTED ON WALL ADJACENT TO LATCH SIDE OF EACH TOILET ROOM DOOR (AND OR ON DOOR) ACCOMPANIED WITH GRADE 2 BRAILLE.

NOTE: SIGNS WITH PICTOGRAPHS
APPROX. 2-1/2" HIGH MINIMUM PLASTIC SIGN WITH 1-1/2" HIGH WHITE LETTERS RAISED 1/32" ON BACKGROUND. LETTERS MUST BE UPPER CASE, SANS SERF TYPE & SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.

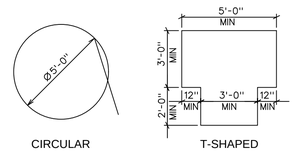
PLASTIC (FIELD) BACKGROUND WITH CONTRASTING RAISED CHARACTERS AND/OR EMBLEMS. NOTE: EMBLEMS AND LETTERS MUST BE RAISED A MINIMUM OF 1/32".



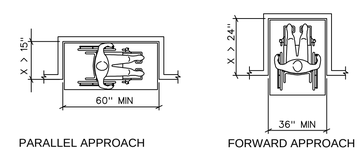
DOOR SIGNS



CLEAR WIDTH OF AN ACCESSIBLE ROUTE



TURNING SPACE



ALCOVE CLEARANCE

81ST TRAINING WING

MARK	DESCRIPTION	DATE

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: G. REED & SMA
SUBMITTED BY:
SIZE: ANSI-D

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

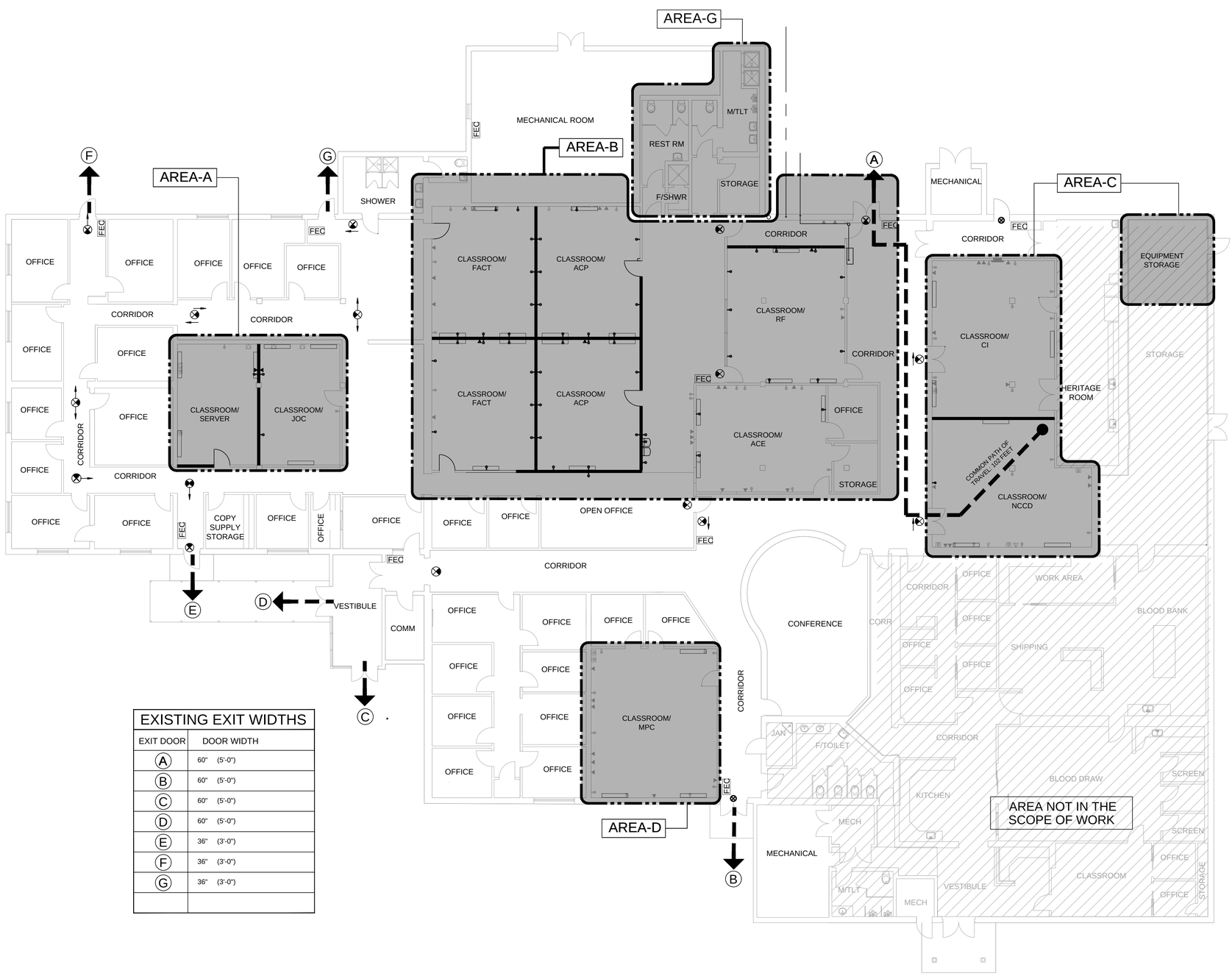
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.B5901
PROJECT NO. MAHG241108

ARCHITECTURAL BARRIERS ACT DETAILS

SHEET ID
G-003

100% DESIGN SUBMITTAL



EXISTING EXIT WIDTHS	
EXIT DOOR	DOOR WIDTH
A	60" (5'-0")
B	60" (5'-0")
C	60" (5'-0")
D	60" (5'-0")
E	36" (3'-0")
F	36" (3'-0")
G	36" (3'-0")

1 LIFE SAFETY PLAN
SCALE : 3/32" = 1'-0"

0 5' 10' 20'

NORTH

CODE COMPLIANCE SUMMARY

BASIC CRITERIA

CONTROLLING AUTHORITY:	UNIFIED FACILITIES CRITERIA (UFC 1-200-01, 3-600-01) 2021
OCCUPANCY CLASSIFICATION (IBC):	GROUP A-3, ASSEMBLY GROUP B, BUSINESS (IBC SECTION 304)
NEW CONSTRUCTION TYPE (IBC):	TYPE II - B (IBC)
NUMBER OF FLOORS:	1
SPRINKLER SYSTEM:	YES
ACTUAL TOTAL FLOOR AREA:	8,103 GROSS SQUARE FEET

EGRESS AND LIFE SAFETY REQUIREMENTS

CONTROLLING AUTHORITY:	UNIFIED FACILITIES CRITERIA (UFC 1-200-01 3-600-01) 2021
AUTOMATIC SPRINKLER DESIGN:	LIGHT HAZARD; ORDINARY HAZARD IN STORAGE AND MECHANICAL ROOMS
OCCUPANT LOAD PER TABLE 7.3.1.2:	(OFFICE ADMIN.): 8,103 SF / 150 SF PER PERSON = 54 PERSONS
NOTE: LOAD CALCULATIONS ARE BASED ON NET SQUARE FOOTAGE AREAS IAW NFPA DESIGN CRITERIA.	TOTAL 1ST FLOOR AREA 8,103 SF WITH TOTAL OCCUPANT LOAD OF: 54 PERSONS TOTAL

MEANS OF EGRESS REQUIREMENTS

MEANS OF EGRESS:	FOR NEW ASSEMBLY CORRIDORS - 44" MINIMUM PER 12.2.3.8. DOORS - 32" MINIMUM CLEAR WIDTH PER 7.2.1.2.4 REQUIRED
NUMBER OF EXITS:	(6) SEPARATE EXITS DIRECTLY TO THE EXTERIOR
DEAD-END CORRIDOR LIMIT:	50 FEET LIMIT PER 12.2.5.1.3
COMMON PATH OF TRAVEL:	20 FEET LIMIT PER 12.2.5.1.2 EXCEPT 75 FEET IN SPACES WITH LESS THAN 50 OCCUPANTS (70 FEET MAX. COMMON TRAVEL PATH IN SPACES WITH LESS THAN 50 OCCUPANTS.)
TRAVEL DISTANCE TO EXITS:	200 FEET LIMIT PER 12.2.5.1.6
EXIT ACCESS CORRIDORS:	CORRIDORS ARE NOT REQUIRED TO HAVE A FIRE-RESISTANCE RATING IN BUUILDINGS WITH A SPRINKLER SYSTEM IAW SECTION 9.7 (12.3.6 - EXCEPTION 2)
EGRESS HARDWARE:	DOOR HARDWARE SHALL BE PROVIDED IN COMPLIANCE WITH THE PROVISIONS OF 7.2.1 AND 7.2.1.8.2.

LEGEND

- PATH OF EXIT TRAVEL
- FEC — FIRE EXTINGUISHER
- SYSTEMS FURNUTURE (SF) SCHEMATIC LAYOUT FOR REFERENCE ONLY
- AREA IN THE SCOPE OF WORK (SOW
- CEILING MOUNTED EXIT SIGN — INDICATES DIRECTIONAL CHEVRON(S); DENOTES LOCATION(S) OF ILLUMINATION EXIT FACE
- WALL MOUNTED EXIT SIGN — INDICATES DIRECTIONAL CHEVRON(S); DENOTES LOCATION(S) OF ILLUMINATION EXIT FACE

81st TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: CHRIS A. SIA
SUBMITTED BY:
SIZE: ANSI-D

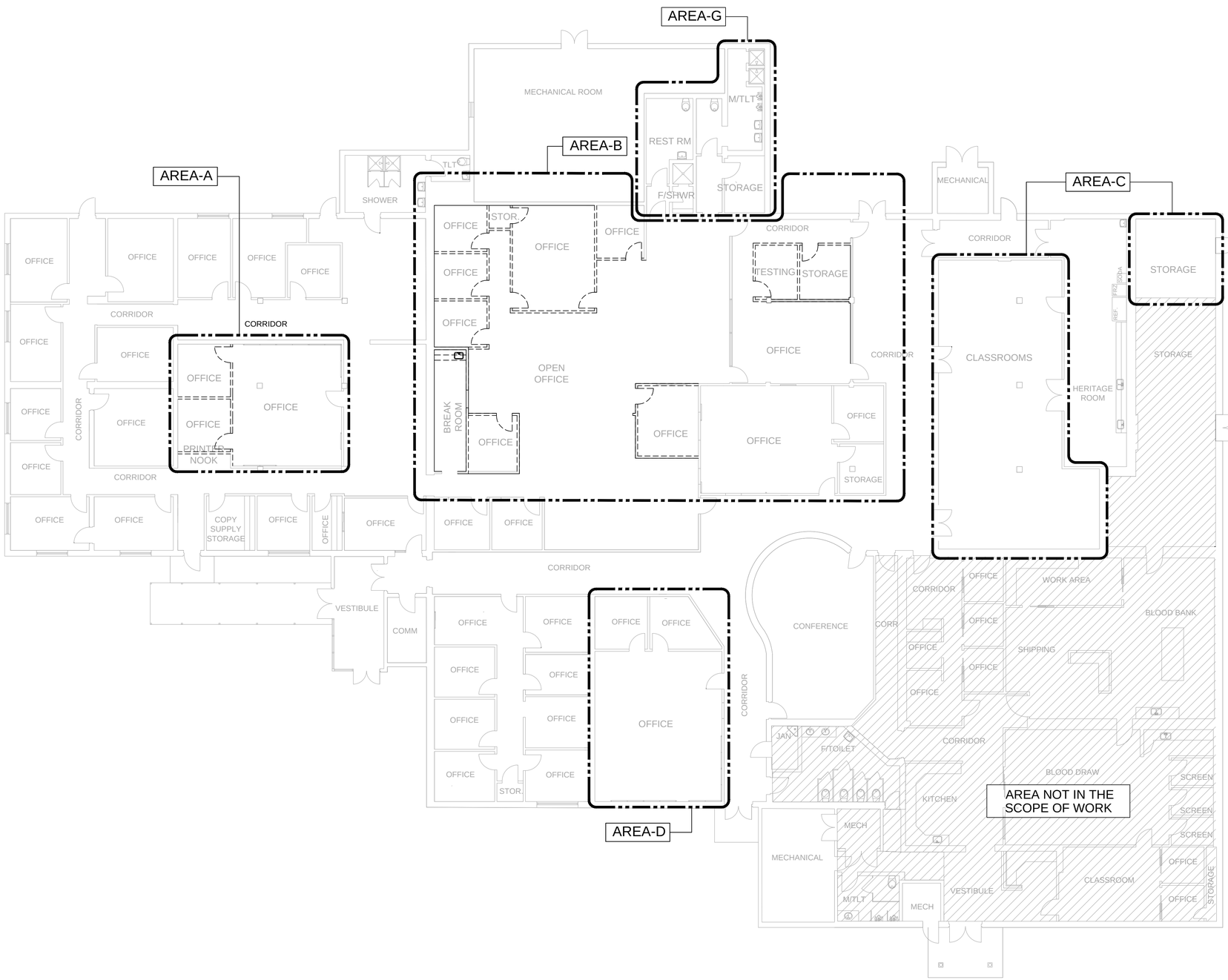
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.BS901
PROJECT NO. MAHG241108

LIFE SAFETY PLAN

SHEET ID
G-004

100% DESIGN SUBMITTAL



1 OVERALL DEMOLITION FLOOR PLAN
SCALE : 3/32"=1'-0"

NORTH

0 5' 10' 20'

81st TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: G. REED, SMA
SUBMITTED BY:
SIZE: ANSI-D

81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE B5901
PROJECT NO. MAHG241108

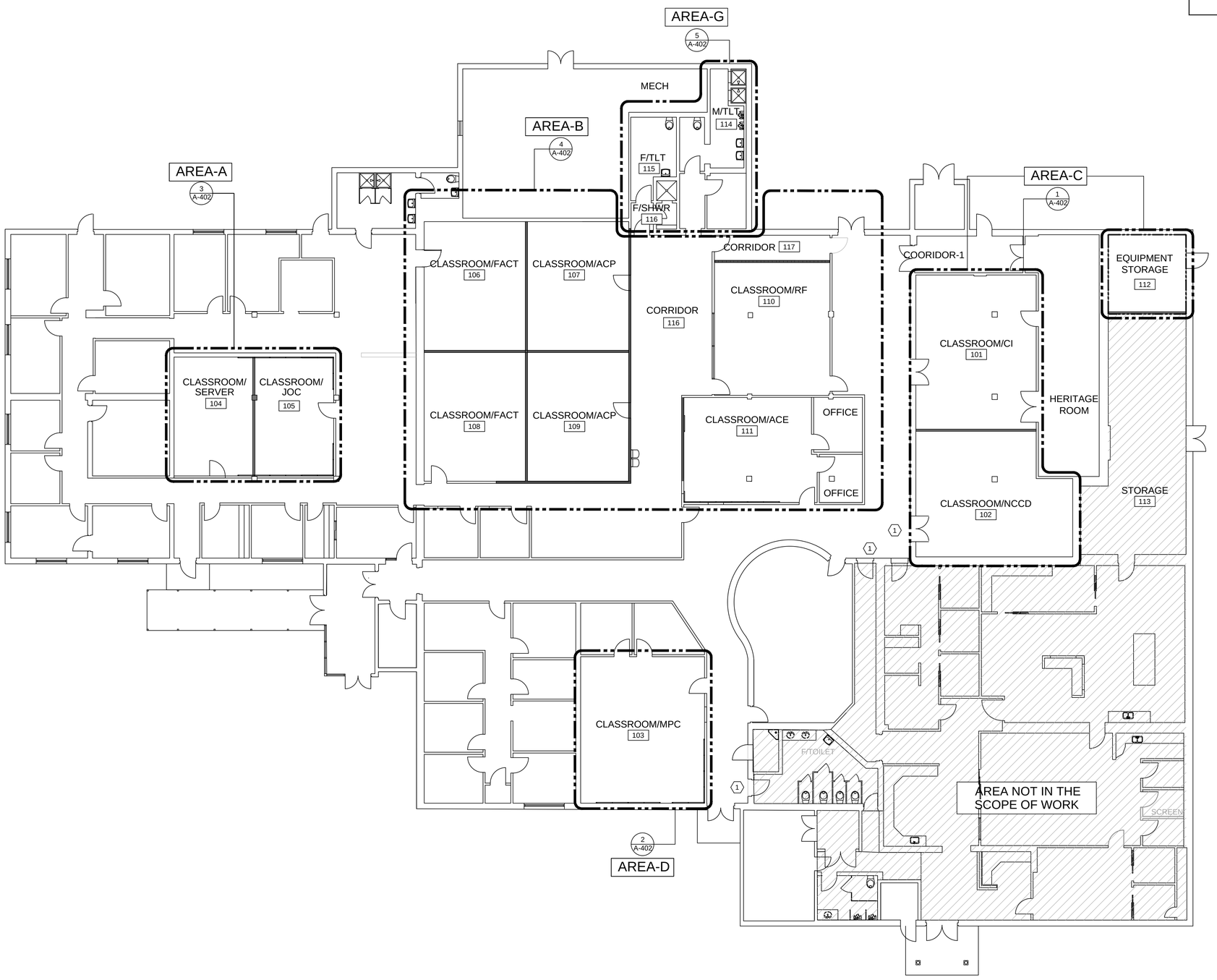
OVERALL DEMOLITION FLOOR PLAN

SHEET ID
A-101

100% DESIGN SUBMITTAL

DEMOLITION KEYNOTES

1. PROVIDE AND INSTALL TEMPORARY SIGNAGE BARRIER AT DOOR.



1 OVERALL NEW WORK FLOOR PLAN

SCALE : 3/32"=1'-0"

0 5' 10' 20'

NORTH

81ST TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: CHERELA SMA
SUBMITTED BY:
SIZE: ANSI-D

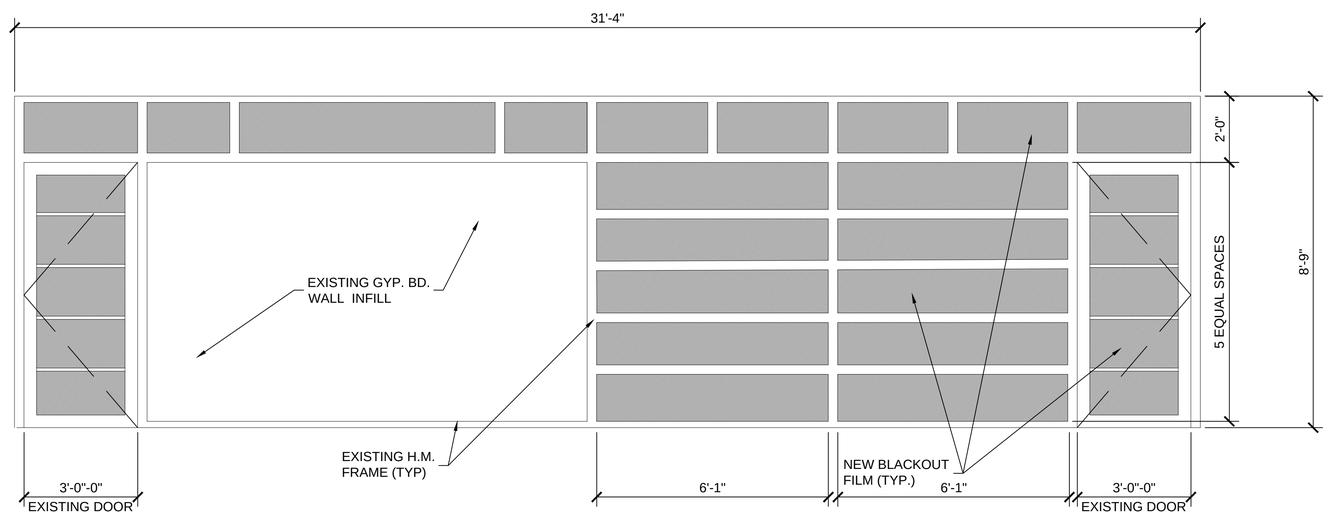
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.B5901
PROJECT NO. MAHG241108

OVERALL NEW WORK FLOOR PLAN

SHEET ID
A-102

100% DESIGN SUBMITTAL



1 INTERIOR ELEVATION
SCALE 1/2" = 1'-0"

0 1' 2' 4'

81st TRAINING WING

MARK	DESCRIPTION	DATE

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: G. REED & SMA
SUBMITTED BY:
SIZE: ANSI-D

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

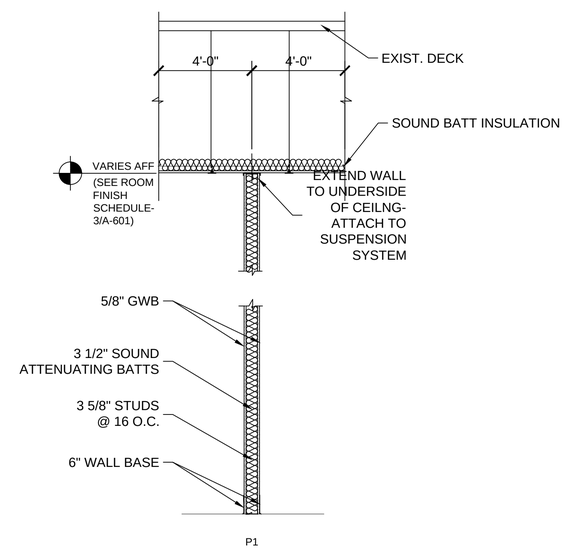
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,85901
PROJECT NO. MAHG241108

INTERIOR ELEVATION

SHEET ID
A-201

100% DESIGN SUBMITTAL



P1

3 5/8" MTL STUDS @ 16" O.C. WITH 5/8" GWB BOTH SIDES AND 3 1/2" SOUND ATTENUATING BATTS. PARTITION TO EXTEND TO THE UNDERSIDE OF THE EXISTING CEILING.

1 WALL TYPE P-1
SCALE 1/2" = 1'-0"

0 1' 2' 4'

81st TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: G. REED & SMA
SUBMITTED BY:
SIZE: ANSI-D

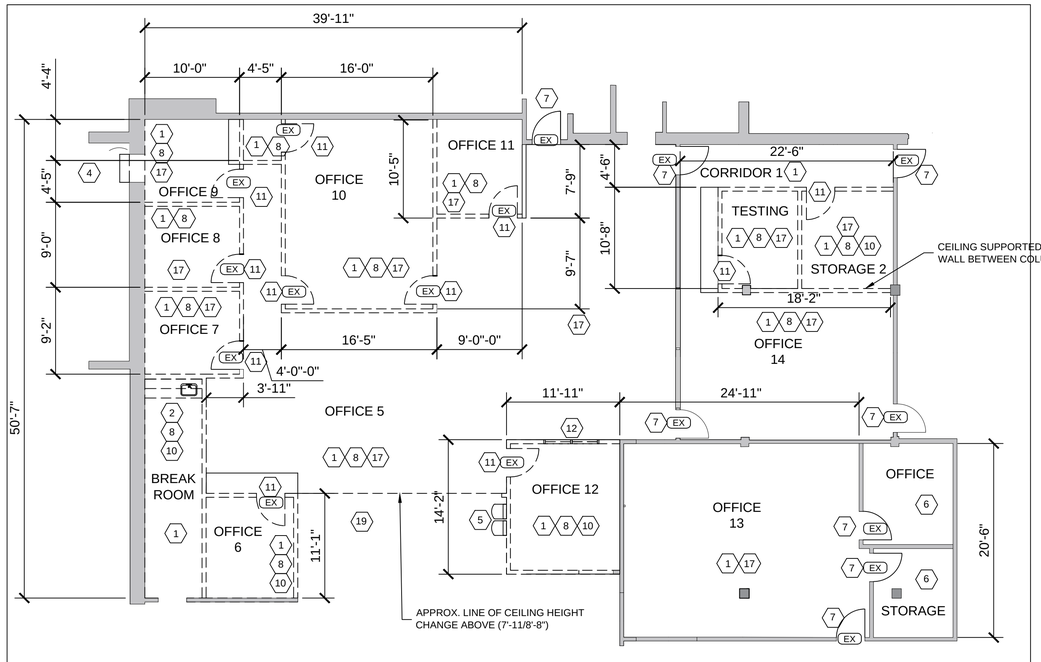
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

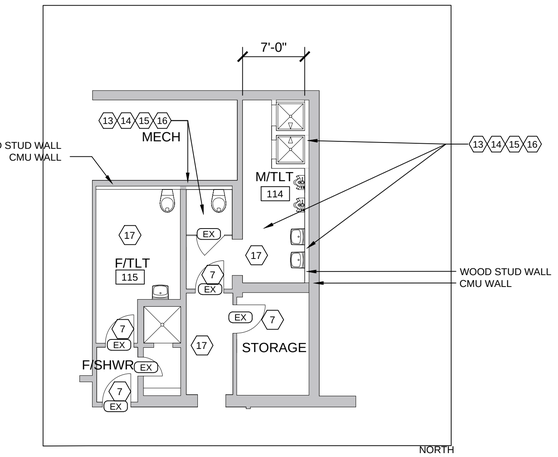
INTERIOR SECTIONS

SHEET ID
A-301

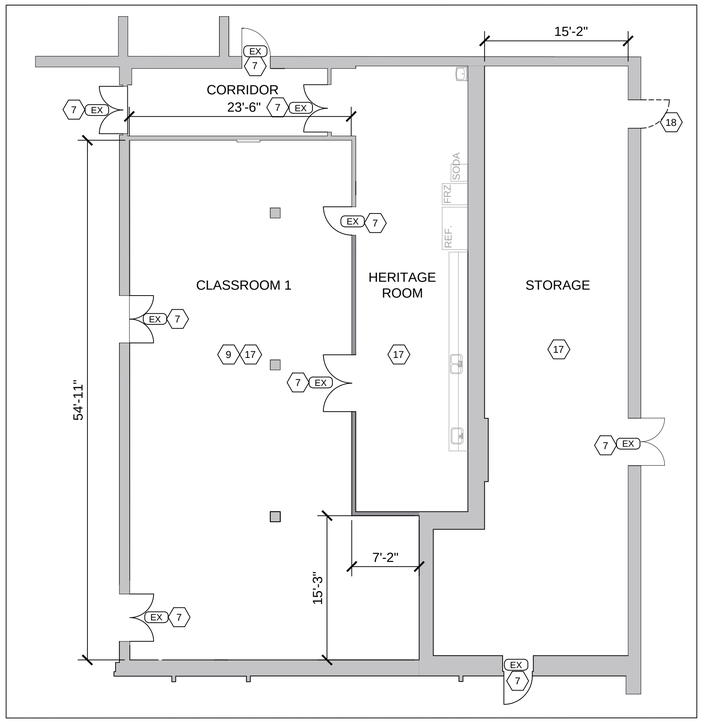
100% DESIGN SUBMITTAL



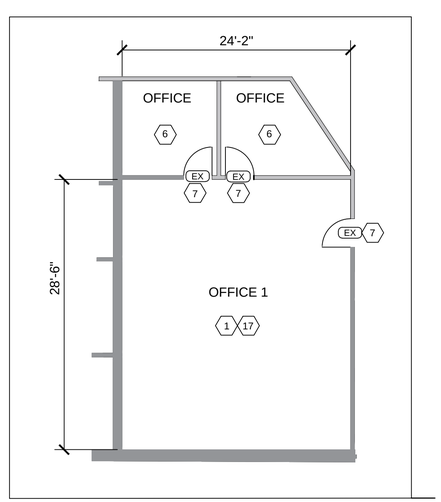
4 DEMOLITION FLOOR PLAN - AREA B
SCALE :1/8" = 1'-0"
0 4' 8' 16'



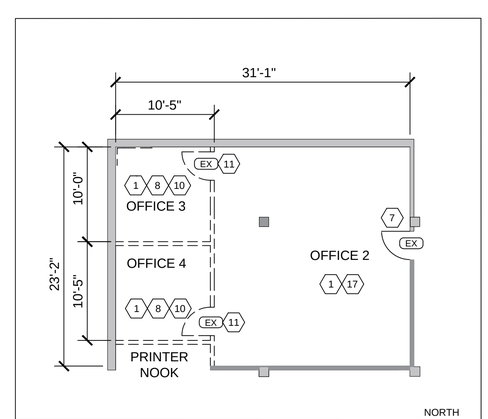
5 DEMOLITION FLOOR PLAN - AREA G
SCALE :1/8" = 1'-0"
0 4' 8' 16'



1 DEMOLITION FLOOR PLAN - AREA C
SCALE :1/8" = 1'-0"
0 4' 8' 16'



2 DEMOLITION FLOOR PLAN - AREA D
SCALE :1/8" = 1'-0"
0 4' 8' 16'



3 DEMOLITION FLOOR PLAN - AREA A
SCALE :1/8" = 1'-0"
0 4' 8' 16'

DEMOLITION KEYNOTES

1. REMOVE EXISTING FLOORING AND WALL BASE. REMOVE REMAINING GLUE/DEBRIS FROM FLOOR PRIOR TO INSTALLATION OF NEW FLOORING.
2. REMOVE EXISTING SINK, FIXTURES AND BASE AND WALL CABINETS. CAP OFF DRAIN AT FLOOR. REMOVE SUPPLY BACK TO NEAREST CUTOFF.
3. NOT USED.
4. REMOVE GYPSUM BOARD AND METAL STUD INFILL TO EXPOSE EXISTING 5'-3" X 6'-10" OPENING IN MASONRY WALL AND PREP OPENING FOR NEW DOOR AND HOLLOW METAL FRAME AS INDICATED ON DRAWINGS. SEE DRAWING 1&2/A-601.
5. REMOVE EXISTING DRINKING FOUNTAIN FROM THIS EXISTING LOCATION AS SHOWN IN THIS DWG 4/A-401 AND PREPARE TO BE RELOCATED TO NEW LOCATION. (REF: P-401 FOR DEMO AND P-402 FOR NEW WORK)
6. EXISTING CARPET FLOORING WITHIN THIS AREA TO REMAIN IN PLACE. (GC, TO ENSURE PROTECTION TO EXISTING)
7. EXIST DOOR AND FRAME TO REMAIN. (GC. TO ENSURE PROTECTION TO EXISTING)
8. REMOVE EXISTING WALLS AND PREPARE FOR NEW WORK
9. EXISTING LVT FLOORING TO REMAIN. (GC. TO ENSURE PROTECTION TO EXISTING)
10. REMOVE PORTION CEILING SYSTEM, TO TIE INTO EXISTING CEILING SYSTEM. (GRID AND TILE)
11. REMOVE EXISTING DOOR AND FRAME AND PREPARE FOR NEW WORK
12. REMOVE EXISTING INTERIOR WINDOW AND PREPARE FOR NEW WORK
13. SCOPE (CAMERA) EXISTING DRAIN-LINE TO LOCATE THE OBSTRUCTION/BLOCKAGE IN THE LINE.
14. IF THERE IS AN OBSTRUCTION / BLOCKAGE LOCATED, CLEAR LINE.
15. IF UNABLE TO CLEAR THE LINE, REMOVE THE LINE AND PREPARE TO INSTALL NEW LINE, MATCH EXISTING LINE SIZE.
16. IF LINE REQUIRES TO BE REMOVED AND REPLACED DETERMINE LOCATION OF OBSTRUCTION / BLOCKAGE. REMOVE SLAB AND / OR WALL AS REQUIRED TO ACCESS THE DRAIN PIPE.
17. CEILING SYSTEM TO REMAIN.
18. REMOVE HOLLOW METAL DOOR AND HARDWARE. FRAME TO REMAIN.
19. COORDINATE CEILING REMOVAL. INTENT IS TO KEEP EXISTING 7'-11" AND 8'-8" CEILINGS, AND EXISTING 'TRANSITION RISE' BETWEEN THE TWO HEIGHTS. WHERE CEILINGS REMOVED IN OFFICES 6 AND 12, TIE 7'-11" CEILING BETWEEN THOSE AREAS TO NEW CEILING OVER WHERE OFFICES WERE AND TIE CURRENTLY BETWEEN THE OFFICES INSTALL NEW 7'-11" CEILING AND THE EXISTING 8'-8" CEILING.

LEGEND

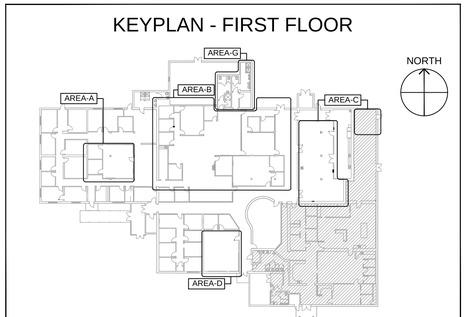
EXISTING CONSTRUCTION

DEMOLITION

EXISTING CEILING HEIGHTS

OFFICE 1	7'-11"
OFFICE 2.3,&4	7'-11"
OFFICE 5,7,8,9,&10	8'-8"
OFFICE 6	8'-6"
OFFICE 13	7'--11"
OFFICE 14, STORAGE 2, & TESTING	8'-5"
CLASSROOM 1	7-11"
STORAGE 1	9'-5"

KEYPLAN - FIRST FLOOR



MARK	DESCRIPTION	DATE

81ST TRAINING WING

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: CHRISTOPHER A. SMA
SUBMITTED BY:
SIZE: ANSI-D

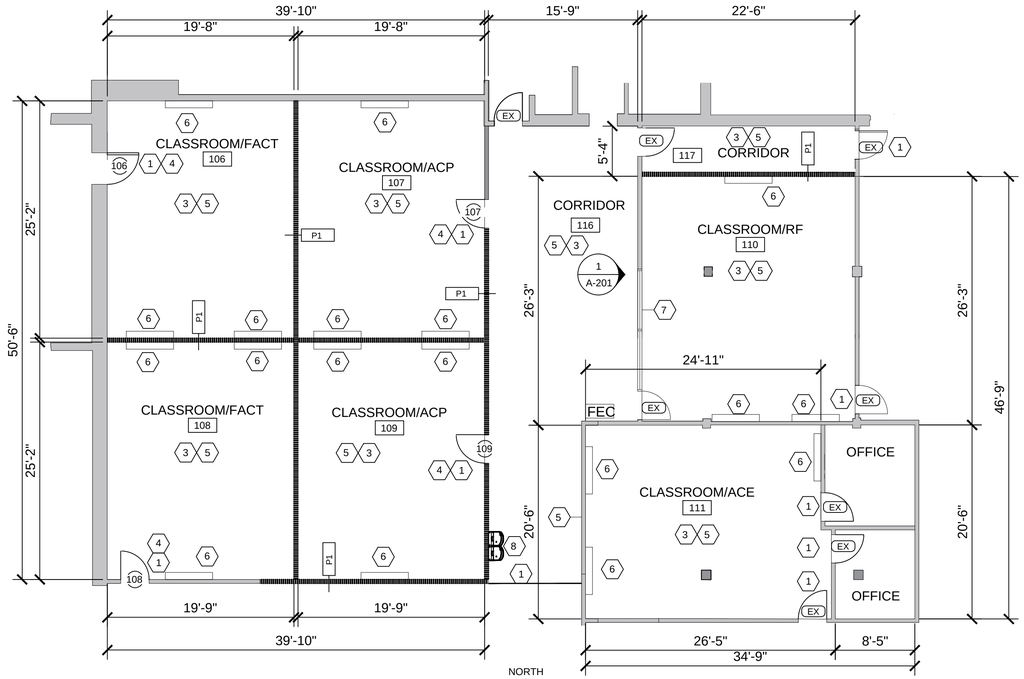
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

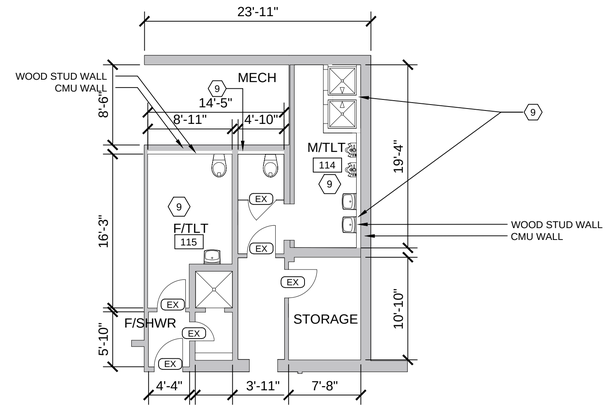
LARGE SCALE DEMOLITION FLOOR PLANS

SHEET ID
A-401

100% DESIGN SUBMITTAL



4 FLOOR PLAN-NEW WORK - AREA B
SCALE 1/8" = 1'-0"



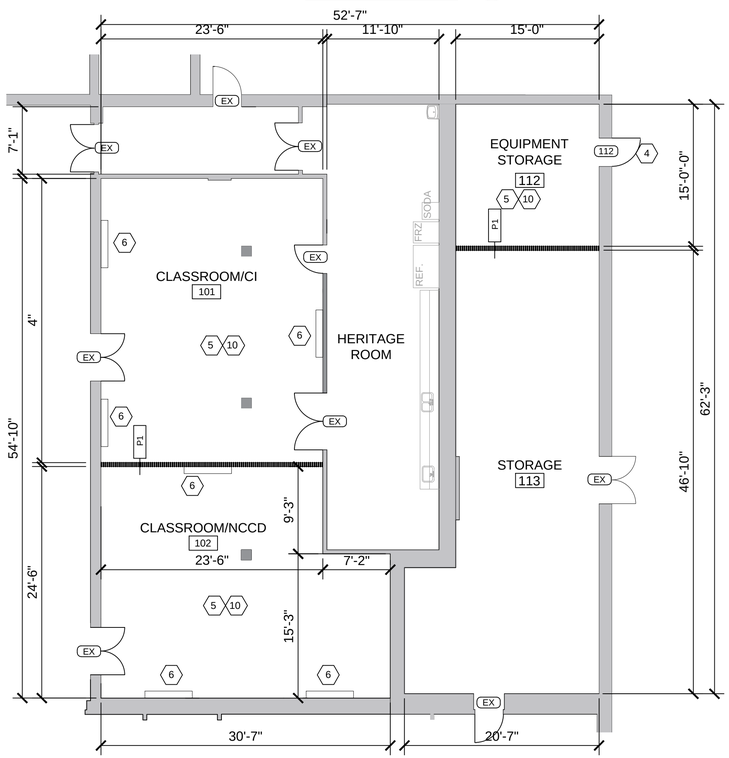
5 FLOOR PLAN-NEW WORK - AREA G
SCALE 1/8" = 1'-0"

NEW WORK KEYNOTES

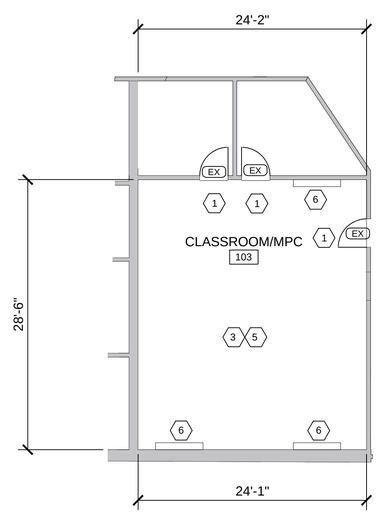
1. PROVIDE NEW TRANSITION STRIP.
2. NOT USED.
3. PROVIDE NEW VCT FLOORING AND WALL BASE.
4. PROVIDE NEW DOOR AND FRAME TO INCLUDE ALL HARDWARE. SEE DOOR SCHEDULE ON SHEET A-601.
5. PATCH EXISTING WALLS AS REQUIRED TO LEVEL 4 FINISH PRIME AND PAINT.
6. PROVIDE AND INSTALL NEW SUPPORT FOR TV. MOUNTING HEIGHT 5'-7" CENTER OF TV TO FINISH FLOOR.
7. PROVIDE AND INSTALL FILM TO EXISTING WINDOW GLAZING.
8. INSTALL RELOCATED DRINKING FOUNTAIN.
9. IF BLOCKAGE LOCATED REMOVE PORTION OF FLOOR OR WALL AS REQUIRED TO ACCESS THE BLOCKED DRAIN LINE. MATCH EXISTING AND REPLACE BLOCKED DRAIN LINE AND RETURN TO POSITIVE FLOW. PATCH FLOOR (ADD COMPACTED FILL, VAPOR BARRIER, REINF. STEEL AND CONCRETE, AND FLOAT), AND INSTALL TILE FLOOR, AND/OR PATCH WALL (REPLACE PORTION OF STUD WALL AND SILL PLATE WITH TREATED MATERIAL, TILE BACKER BOARD), AND INSTALL COVE BASE AND WALL TILE. SHOULD 3'X3' FIBERGLAS SHOWER STALL REQUIRE REMOVAL REPLACE IN KIND AND WRAP IN TREATED WOOD FRAMING, INSTALL TILE BACKER BOARD, COVE BASE AND WALL TILE.
10. PROVIDE NEW WALL BASE ON EACH SIDE OF NEW WALL.

LEGEND

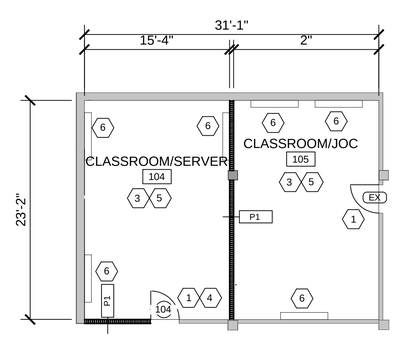
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- #X#.# — PARTITION TYPE



1 FLOOR PLAN-NEW WORK -AREA C
SCALE 1/8" = 1'-0"

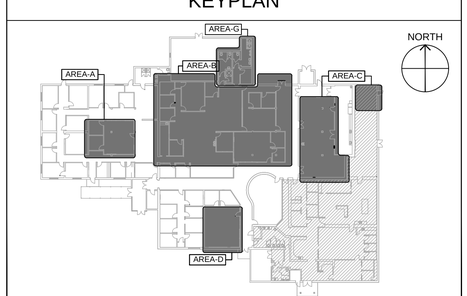


2 FLOOR PLAN-NEW WORK - AREA D
SCALE 1/8" = 1'-0"



3 FLOOR PLAN-NEW WORK - AREA A
SCALE 1/8" = 1'-0"

KEYPLAN



81ST TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: G.REED & SMA
SUBMITTED BY:
SIZE: ANSI-D

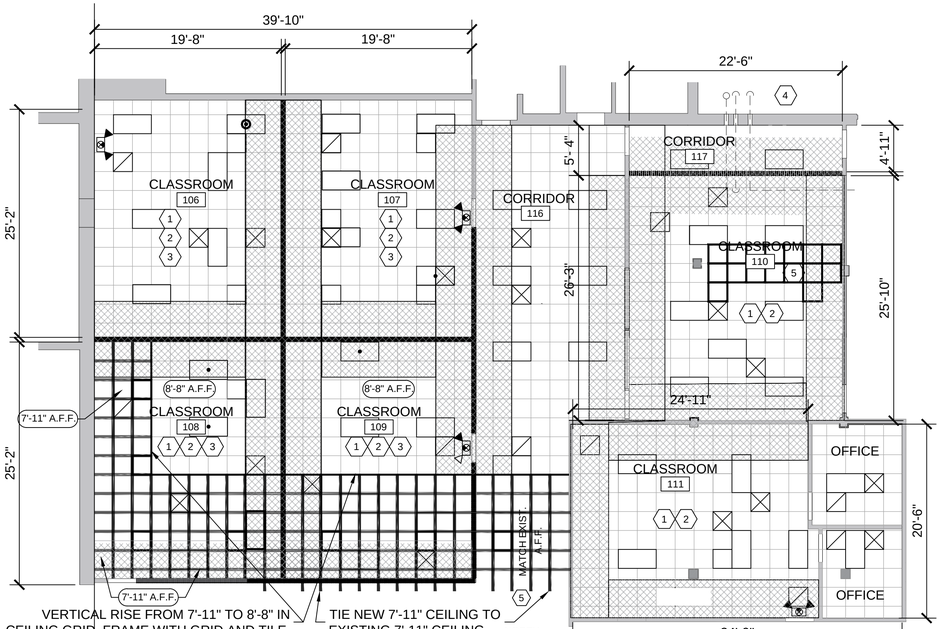
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.85901
PROJECT NO. MAHG241108

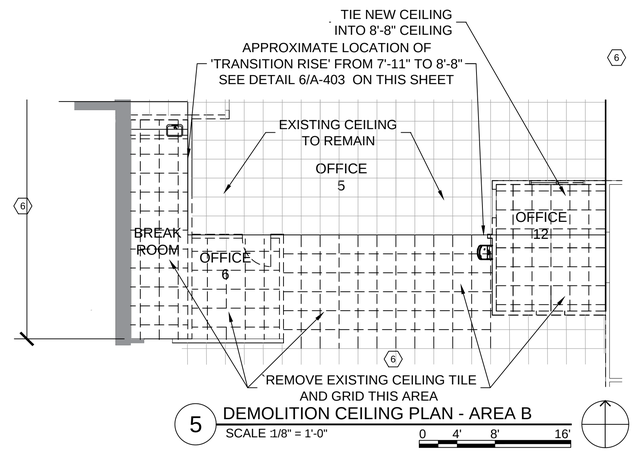
LARGE SCALE NEW WORK FLOOR PLANS

SHEET ID
A-402

100% DESIGN SUBMITTAL



4 REFLECTED CEILING PLAN - AREA B
SCALE :1/8" = 1'-0"
0 4' 8' 16'



5 DEMOLITION CEILING PLAN - AREA B
SCALE :1/8" = 1'-0"
0 4' 8' 16'

SHEET NOTES

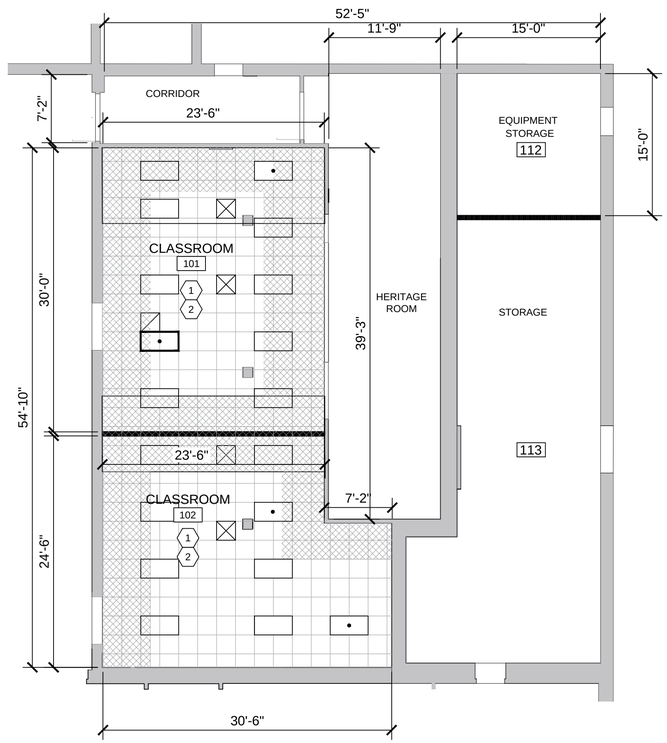
1. ALL NEW WALLS ARE TO THE UNDERSIDE OF THE EXISTING CEILING.
2. WHERE NEW CEILING IS CONSTRUCTED, SECURE CEILING GRID TO EXISTING WALLS AND TO EXISTING CEILING TILE GRID.

ARCHITECTURAL KEYNOTES

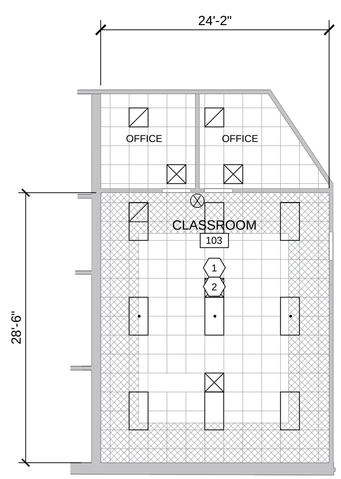
1. ONLY REMOVE AND REPLACE PORTION OF THE CEILING AS REQUIRED TO ALTER THE DUCT WORK AND SUPPLY/RETURN GRILLES AND FIRE SPRINKLER SYSTEM.
2. ADJUST LOCATION OF LIGHT FIXTURES AND HVAC SEE MECHANICAL AND ELECTRICAL.
3. NEW CEILING GRID AND TILE AS REQUIRED FOR ABOVE CEILING WORK.
4. NEW PENETRATION ABOVE CEILING FOR CONDUITS. SEE ELECTRICAL DRAWING E-410.
5. TIE INTO EXISTING CEILING.
6. REMOVE PORTION OF CEILING TO TIE BACK INTO EXISTING CEILING

LEGEND

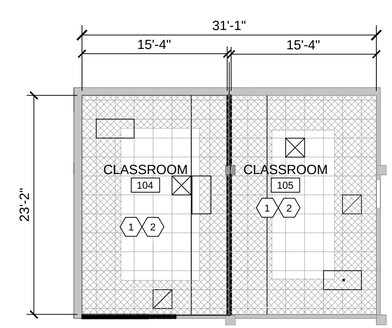
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- NEW ACOUSTICAL CEILING GRID AND CEILING TILES @ 7'-11" AFF/8'-6" AFF
- SUPPLY AIR
- RETURN AIR
- 8'-6" A.F.F. — CEILING HEIGHT ABOVE FINISH FLOOR
- SOUND BATT INSULATION ABOVE CEILING



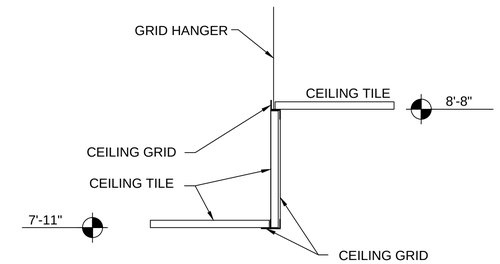
1 REFLECTED CEILING PLAN - AREA C
SCALE :1/8" = 1'-0"
0 4' 8' 16'



2 REFLECTED CEILING PLAN - AREA D
SCALE :1/8" = 1'-0"
0 4' 8' 16'

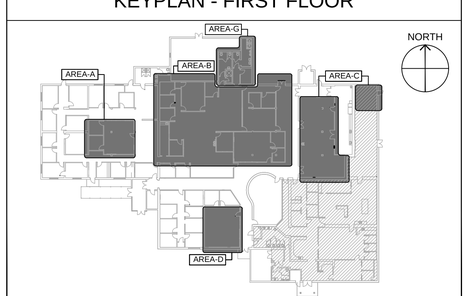


3 REFLECTED CEILING PLAN - AREA A
SCALE :1/8" = 1'-0"
0 4' 8' 16'



6 TRANSITION RISE
SCALE :1/8" = 1'-0"

KEYPLAN - FIRST FLOOR



MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: G.REED & SMA
SUBMITTED BY:
SIZE: ANSI-D

81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.85901
PROJECT NO. MAHG241108

REFLECTED CEILING PLANS

SHEET ID
A-403

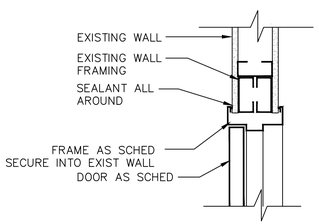
100% DESIGN SUBMITTAL

DOOR AND FRAME SCHEDULE

DOOR							
NO.	SIZE W	SIZE H	SIZE THK	MTL.	TYPE	HEAD	JAMB
104	3'-0"	7'-0"	1 3/4"	WD	D1	3 / A-601	4 / A-601
106	3'-0"	6-8"	1 3/4"	WD	D1	1 / A-601	2 / A-601
107	3'-0"	7'-0"	1 3/4"	WD	D1	3 / A-601	4 / A-601
108	3'-0"	7'-0"	1 3/4"	WD	D1	3 / A-601	4 / A-601
109	3'-0"	7'-0"	1 3/4"	WD	D1	3 / A-601	4 / A-601
112	3'-0"	7'-0"	1 3/4"	HM	D2	-	-

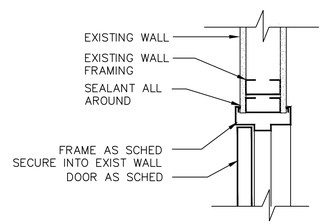
ROOM FINISH SCHEDULE

RM#	ROOM NAME	FLOOR: VCT	FLOOR: CERAMIC TILE	FLOOR:	BASE: RUBBER	BASE: PORCELAIN TILE	BASE:	WALLS: PTD. GYP. BD.	WALLS: CERAMIC TILE	WALLS:	CEILING: LAY-IN CEILINGTILE	CEILING:	CEILING:	CLG.HT	NOTES
101	CLASSROOM	-	-		◯	-		⊗	-		◯			8'-8"	EXIST. FLOOR TO REMAIN
102	CLASSROOM	-	-		◯	-		⊗	-		◯			8'-8"	EXIST. FLOOR TO REMAIN
103	CLASSROOM	◯	-		◯	-		⊗	-		◯			7'-11"	
104	CLASSROOM	◯	-		◯	-		⊗	-		◯			7'-11"	
105	CLASSROOM	◯	-		◯	-		⊗	-		◯			7'-11"	
106	CLASSROOM	◯	-		◯	-		⊗	-		◯			8'-8"	
107	CLASSROOM	◯	-		◯	-		⊗	-		◯			8'-8"	
108	CLASSROOM	◯	-		◯	-		⊗	-		◯			7'-11"/8'-8"	
109	CLASSROOM	◯	-		◯	-		⊗	-		◯			7'-11"/8'-8"	
110	CLASSROOM	◯	-		◯	-		⊗	-		◯			8'-5"	
111	CLASSROOM	◯	-		◯	-		⊗	-		◯			8'-8"	
112	EQUIPMENT STORAGE	-	-		◯	-		⊗	-		◯			9'-5"	EXIST. FLOOR TO REMAIN
113	STORAGE	-	-		◯	-		⊗	-		◯			9'-5"	EXIST. FLOOR TO REMAIN
114	M/TLT	-	◯		-	◯		⊗	-		-			8'-8"	SEE GEN. NOTE -1
115	F/TLT	-	◯		-	◯		⊗	-		-			8'-8"	SEE GEN. NOTE -1
116	CORRIDOR	◯	-		◯	-		⊗	-		◯			8'-8"	
117	CORRIDOR	◯	-		◯	-		⊗	-		◯			8'-5"	



HEAD DETAIL

3 HEAD DETAIL
SCALE :1 1/2" = 1'-0"



JAMB DETAIL

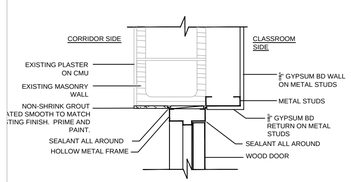
4 JAMB DETAIL
SCALE :1 1/2" = 1'-0"

FINISH SCHEDULE NOTES

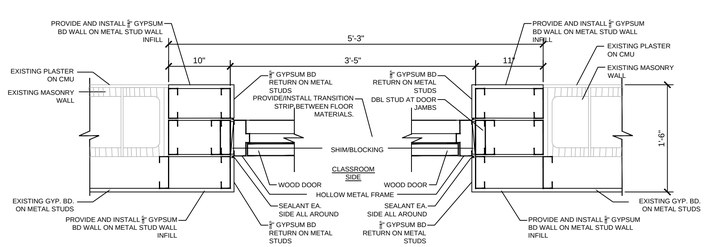
1. NEW TILE IN TOILET ROOMS ONLY IF BID OPTION 3 ADD ALTERNATE IS SELECTED.

FINISH LEGEND

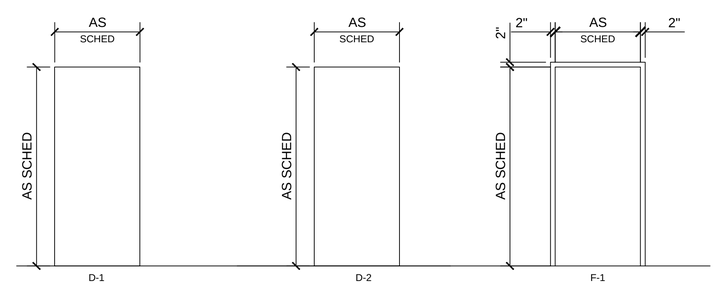
◯	MATERIAL DESIGNATION
⊗	MAT'L DESIGNATION (WALL LOCATION)
W N S E	WALL LOCATION (PLAN NORTH)



1 HEAD DETAIL
SCALE :1/2" = 1'-0"



2 JAMB DETAIL
SCALE :1/2" = 1'-0"



DOOR:
SOLID CORE SWINGING WOOD DOOR
DOOR FINISH:STAIN
FRAME: HOLLOW METAL
FRAME FINISH:PAINTED
RATED: NON-RATED
HARDWARE:
- ABA COMPLIANT LEVER
- BUTT HINGES
- CYLINDRICAL LOCKSET
- DOOR STOP

DOOR:
HOLLOW METAL DOOR
FRAME: EXISTING
FRAME FINISH:PAINTED
RATED: NON-RATED
HARDWARE:
- ABA COMPLIANT LEVER
- BUTT HINGES
- CYLINDRICAL LOCKSET
- DOOR STOP

FRAME NOTES:
1. ALL HOLLOW METAL FRAME MEMBERS 2" WIDE UNLESS NOTED OTHERWISE.
2. ALL EXISTING HOLLOW METAL FRAMES TO BE PAINTED TO MATCH EXISTING.

5 DOOR ELEVATIONS
SCALE : N.T.S.

81st TRAINING WING

MARK	DESCRIPTION	DATE

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: G.REED & SMA
SUBMITTED BY:
SIZE: ANSI-D
ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

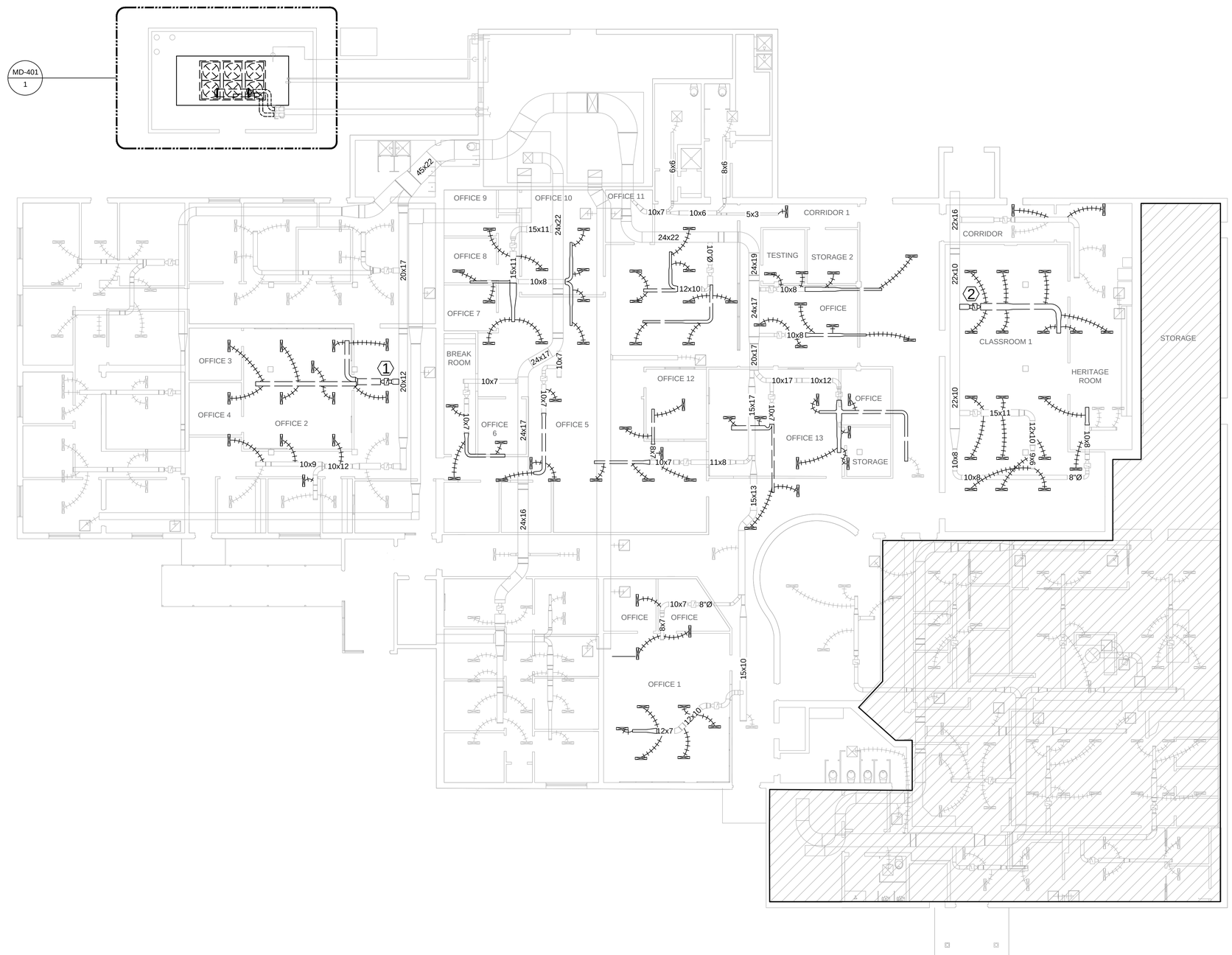
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.85901
PROJECT NO. MAHG241108

ROOM FINISH SCHEDULE
DOOR AND FRAME SCHEDULE

SHEET ID
A-601

100% DESIGN SUBMITTAL



1 MECHANICAL DEMOLITION PLAN
SCALE : 3/32"=1'-0"
0 5' 10' 20'
NORTH

GENERAL MECHANICAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. REMOVE ALL LINEAR SLOT DIFFUSERS AND ATTACHED FLEX DUCT BACK TO MAIN IN AREA OF WORK UNLESS SPECIFICALLY REFERENCED.
3. REMOVE AND RETAIN EXISTING THERMOSTATS IN AREA OF WORK.

MECHANICAL KEY NOTES

1. REMOVE EXISTING VAV 1-2
2. REMOVE EXISTING VAV 4-2

MECHANICAL LEGEND

- LINEAR SLOT DIFFUSER TO REMAIN
- LINEAR SLOT DIFFUSER TO BE DEMOLISHED
- FLEXIBLE DUCT TO REMAIN
- FLEXIBLE DUCT TO BE DEMOLISHED
- HARD DUCT TO REMAIN
- HARD DUCT TO BE DEMOLISHED
- VAV BOX TO REMAIN
- VAV BOX TO BE DEMOLISHED
- RETURN AIR GRILLE TO REMAIN
- NO WORK THIS AREA

81st TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D

81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

MECHANICAL DEMOLITION PLAN

SHEET ID
MD-101

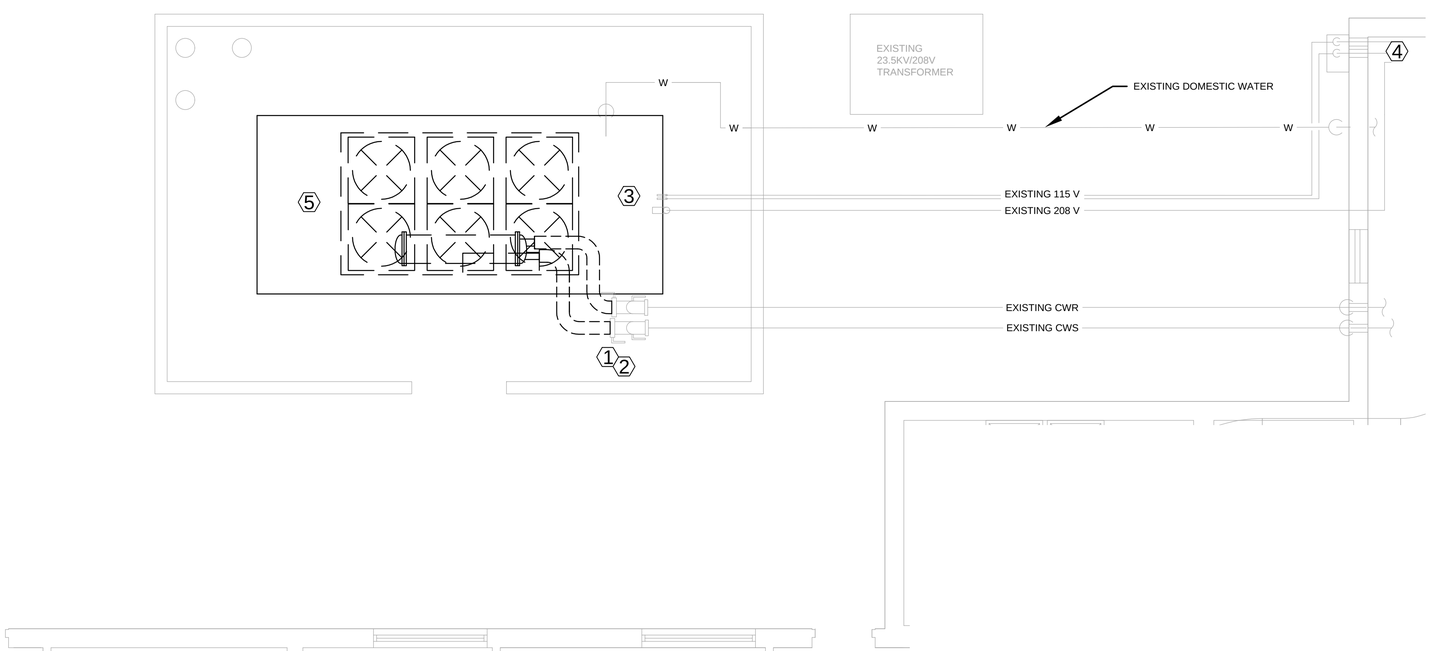
100% DESIGN SUBMITTAL

GENERAL MECHANICAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

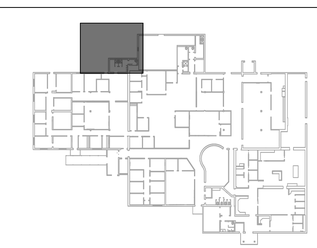
MECHANICAL KEY NOTES

1. REMOVE INSULATION FROM CHILLED WATER SUPPLY AND RETURN LINES FROM EXISTING BUTTERFLY VALVES TO THE CHILLER.
2. DISCONNECT PIPE AT EXISTING VALVES. REMOVE EXISTING CHILLED WATER SUPPLY AND RETURN PIPE.
3. DISCONNECT ELECTRIC SERVICE TO EXISTING CHILLER. REMOVE CONDUCTORS FROM CHILLER CONTROL PANEL.
4. DISCONNECT CONTROL WIRES FROM THE CHILLER CONTROL PANEL. REMOVE WIRES FROM CONTROL PANEL TO PANEL IN MECHANICAL EQUIPMENT ROOM.
5. REMOVE EXISTING CHILLER



1 CHILLER DEMOLITION DETAIL
SCALE : 1/4" = 1'-0"
0 2' 4' 8'
NORTH

KEY PLAN



FIRST FLOOR

81ST TRAINING WING

MARK	DESCRIPTION	DATE

DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D
ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

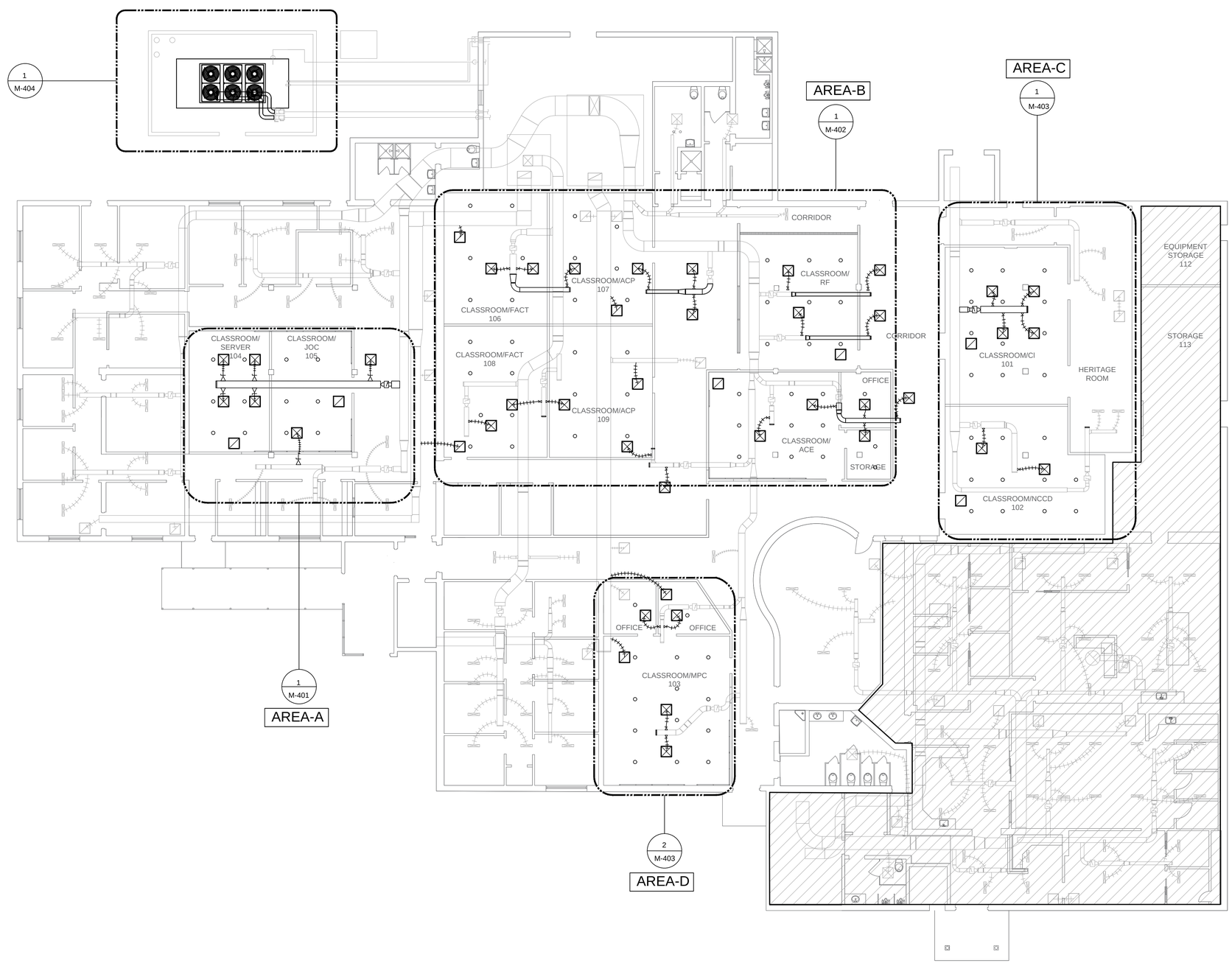
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

CHILLER DEMOLITION DETAIL

SHEET ID
MD-401

100% DESIGN SUBMITTAL



1 MECHANICAL NEW WORK PLAN
SCALE : 3/32"=1'-0"
0 5' 10' 20'
NORTH

GENERAL MECHANICAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ELECTRICAL, ARCHITECTURAL, FIRE SPRINKLER CONTRACTORS.
3. FIRE SPRINKLER LOCATIONS SHOWN ARE DIAGRAMMATIC. SEE FS-100 - FS-102.
4. CONSTRUCTION MUST BE COMPLETED PER SMACNA STANDARDS, NFPA CODES AND STANDARDS, AND UFC.

MECHANICAL LEGEND

- LINEAR SLOT DIFFUSER TO REMAIN
- 24"X24" SQUARE SUPPLY AIR DIFFUSER TO INSTALL
- 24"X24" SQUARE RETURN AIR GRILLE TO INSTALL
- RETURN AIR GRILLE TO REMAIN
- FLEXIBLE DUCT TO REMAIN
- FLEXIBLE DUCT TO INSTALL
- HARD DUCT TO REMAIN
- HARD DUCT TO INSTALL
- VAV BOX TO REMAIN
- VAV BOX TO INSTALL
- NO WORK THIS AREA
- APPROXIMATE FIRE SPRINKLER HEAD LOCATION

81st TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D

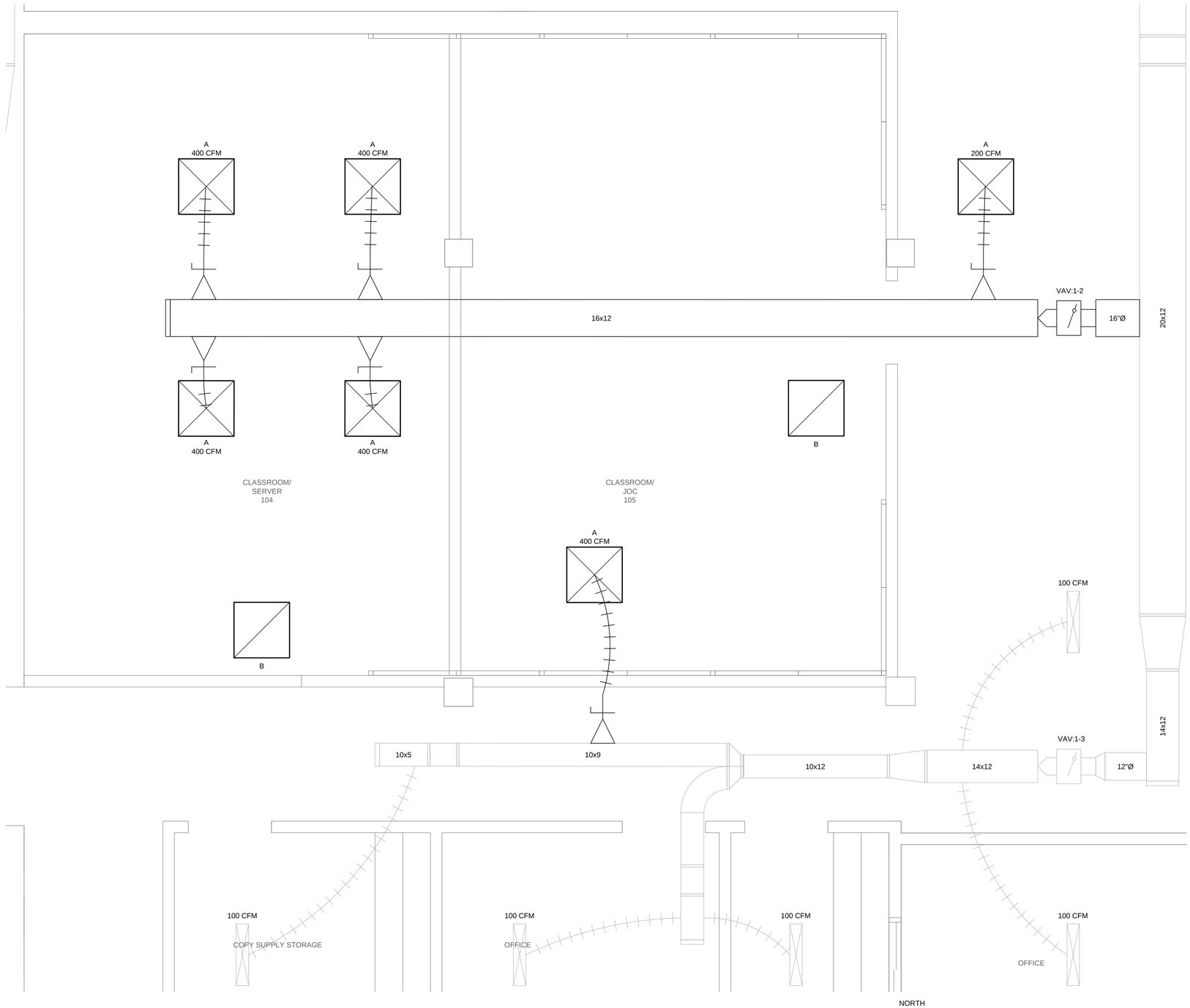
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,85901
PROJECT NO. MAHG241108

MECHANICAL INSTALLATION PLAN

SHEET ID
M-101

100% DESIGN SUBMITTAL



1 MECHANICAL NEW WORK AREA A
SCALE 1/2"=1'-0"

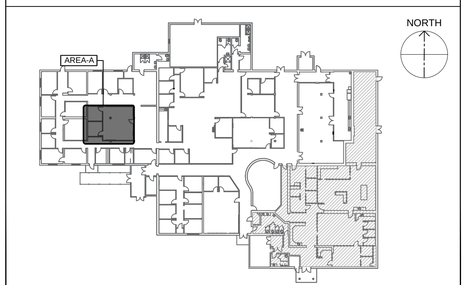
GENERAL MECHANICAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ELECTRICAL, ARCHITECTURAL, AND FIRE SUPPRESSION CONTRACTORS.
3. PROVIDE AND INSTALL NEW DIFFUSERS PER DIFFUSER SCHEDULE AND DRAWN CFM. SEE M-701 FOR DIFFUSER AND GRILLE SCHEDULE. PROVIDE AND INSTALL NEW 8" FLEX DUCT, 45 DEGREE BOOT TAPS, AND MANUAL VOLUME DAMPERS.
4. REINSTALL THERMOSTAT RETAINED IN DEMOLITION.
5. CONSTRUCTION MUST BE COMPLETED PER SMACNA STANDARDS, NFPA CODES AND STANDARDS, AND UFC.

MECHANICAL LEGEND

- VAV BOX TO REMAIN
- VAV BOX TO INSTALL
- FLEXIBLE DUCT TO REMAIN
- FLEXIBLE DUCT TO INSTALL
- HARD DUCT TO REMAIN
- HARD DUCT TO INSTALL
- 24"X24" SQUARE SUPPLY AIR DIFFUSER TO INSTALL
- 24"X24" SQUARE RETURN AIR GRILLE TO INSTALL
- 24"X24" SQUARE RETURN AIR GRILLE TO REMAIN
- 24"X24" SQUARE RETURN AIR GRILLE TO REMAIN
- DUCT TAKEOFF WITH MANUAL VOLUME DAMPER
- THERMOSTAT

KEYPLAN - FIRST FLOOR



81ST TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:
DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D

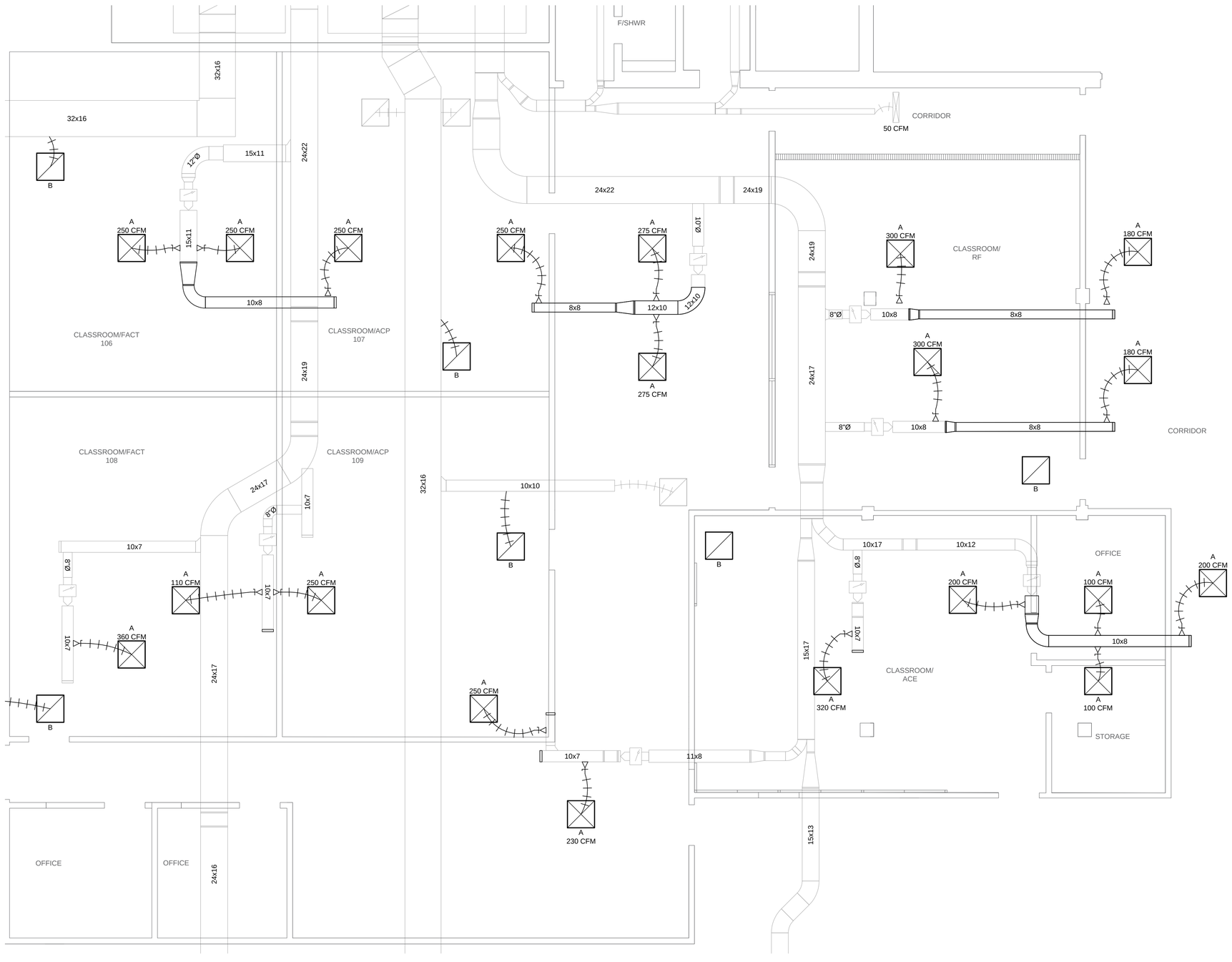
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.85901
PROJECT NO. MAHG241108

MECHANICAL INSTALLATION AREA A

SHEET ID
M-401

100% DESIGN SUBMITTAL



1 MECHANICAL NEW WORK AREA B
SCALE : 3/32"=1'-0"
0 5' 10' 20'
NORTH

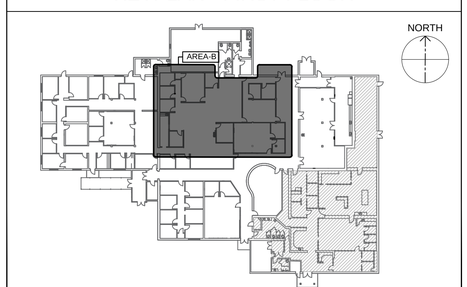
GENERAL MECHANICAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ELECTRICAL, ARCHITECTURAL, AND FIRE SUPPRESSION CONTRACTORS.
3. PROVIDE AND INSTALL NEW DIFFUSERS PER DIFFUSER SCHEDULE AND DRAWN CFM. SEE M-701 FOR DIFFUSER AND GRILLE SCHEDULE. PROVIDE AND INSTALL NEW 8" FLEX DUCT, 45 DEGREE BOOT TAPS, AND MANUAL VOLUME DAMPERS.
4. REINSTALL THERMOSTAT RETAINED IN DEMOLITION.
5. CONSTRUCTION MUST BE COMPLETED PER SMACNA STANDARDS, NFPA CODES AND STANDARDS, AND UFC.

MECHANICAL LEGEND

- VAV BOX TO REMAIN
- FLEXIBLE DUCT TO REMAIN
- FLEXIBLE DUCT TO INSTALL
- HARD DUCT TO REMAIN
- HARD DUCT TO INSTALL
- 24"X24" SQUARE SUPPLY AIR DIFFUSER TO INSTALL
- 24"X24" SQUARE RETURN AIR GRILLE TO INSTALL
- 24"X24" SQUARE RETURN AIR GRILLE TO REMAIN
- 24"X24" SQUARE RETURN AIR GRILLE TO REMAIN
- DUCT TAKEOFF WITH MANUAL VOLUME DAMPER
- THERMOSTAT

KEYPLAN - FIRST FLOOR



MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:
DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D

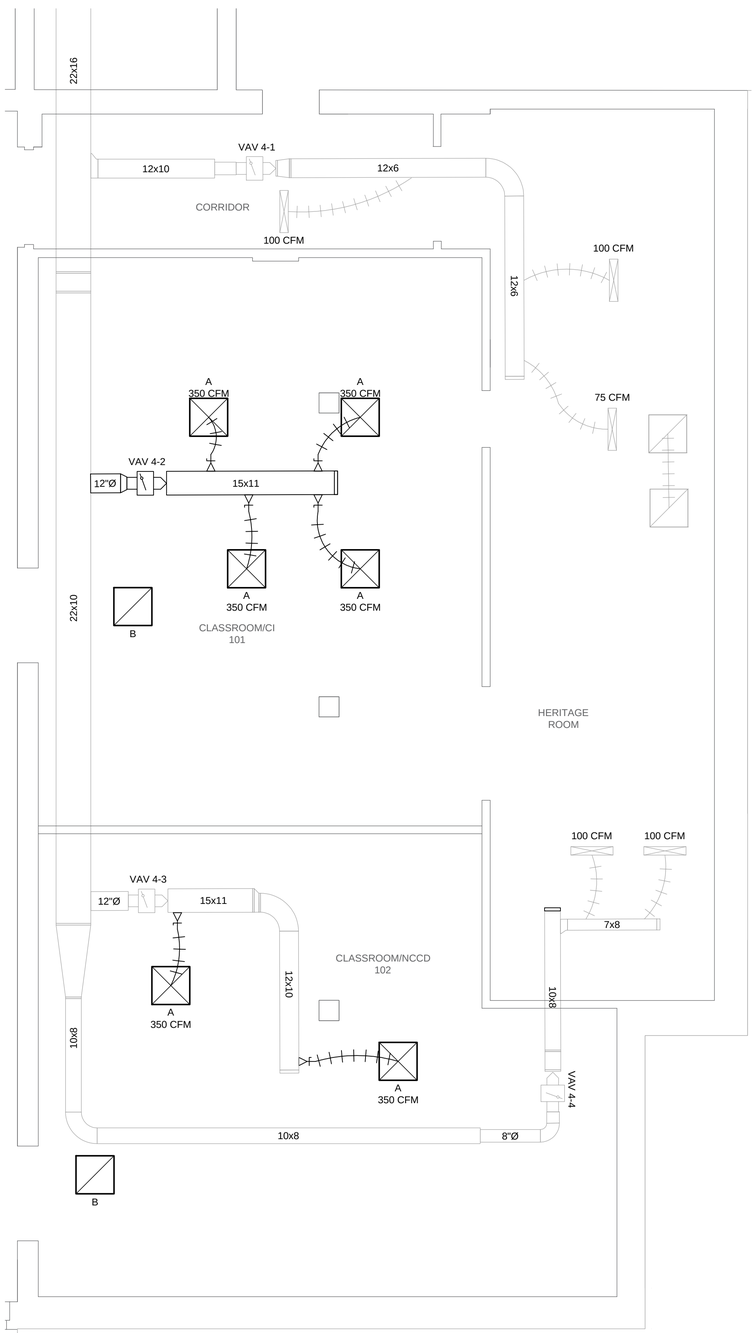
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

MECHANICAL INSTALLATION AREA B

SHEET ID
M-402

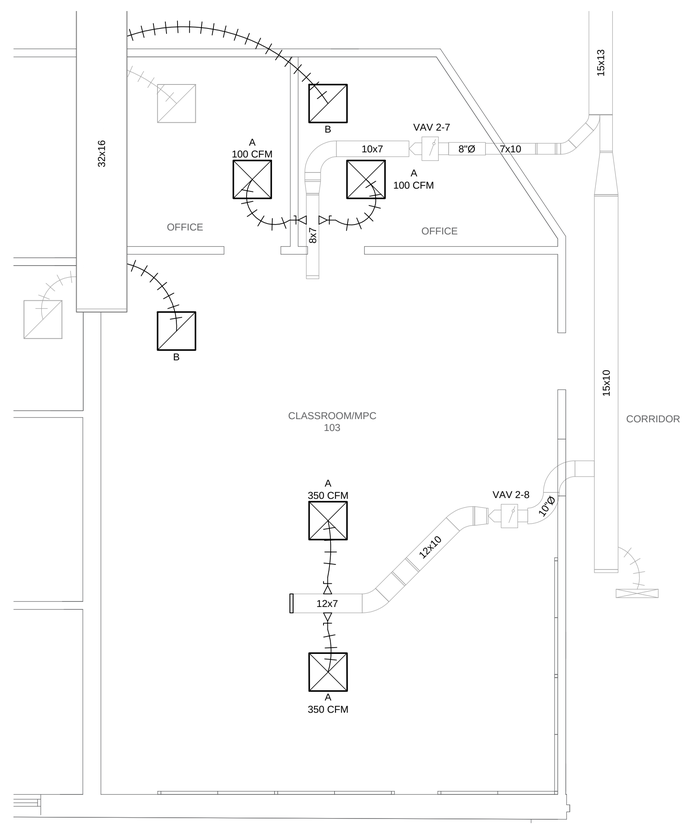
100% DESIGN SUBMITTAL



1 MECHANICAL NEW WORK AREA C

SCALE :1/4" = 1'-0"

NORTH



2 MECHANICAL NEW WORK AREA D

SCALE : 1/4" = 1'-0"

NORTH

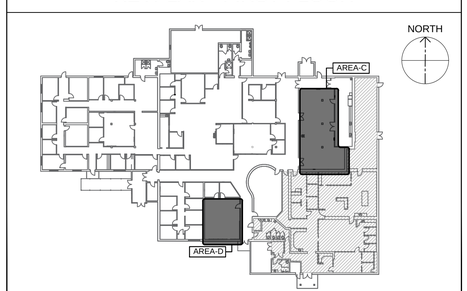
GENERAL MECHANICAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. COORDINATE DIFFUSER AND GRILLE LOCATIONS WITH ELECTRICAL, ARCHITECTURAL, AND FIRE SUPPRESSION CONTRACTORS.
3. PROVIDE AND INSTALL NEW DIFFUSERS PER DIFFUSER SCHEDULE AND DRAWN CFM. SEE M-701 FOR DIFFUSER AND GRILLE SCHEDULE. PROVIDE AND INSTALL NEW 8" FLEX DUCT, 45 DEGREE BOOT TAPS, AND MANUAL VOLUME DAMPERS.
4. REINSTALL THERMOSTAT RETAINED IN DEMOLITION.
5. CONSTRUCTION MUST BE COMPLETED PER SMACNA STANDARDS, NFPA CODES AND STANDARDS, AND UFC.

MECHANICAL LEGEND

- VAV BOX TO REMAIN
- VAV BOX TO INSTALL
- FLEXIBLE DUCT TO REMAIN
- FLEXIBLE DUCT TO INSTALL
- HARD DUCT TO REMAIN
- HARD DUCT TO INSTALL
- 24"X24" SQUARE SUPPLY AIR DIFFUSER TO INSTALL
- 24"X24" SQUARE RETURN AIR GRILLE TO INSTALL
- 24"X24" SQUARE RETURN AIR GRILLE TO REMAIN
- 24"X24" SQUARE RETURN AIR GRILLE TO REMAIN
- DUCT TAKEOFF WITH MANUAL VOLUME DAMPER
- THERMOSTAT

KEYPLAN - FIRST FLOOR



81ST TRAINING WING

MARK	DESCRIPTION	DATE

DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D
ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

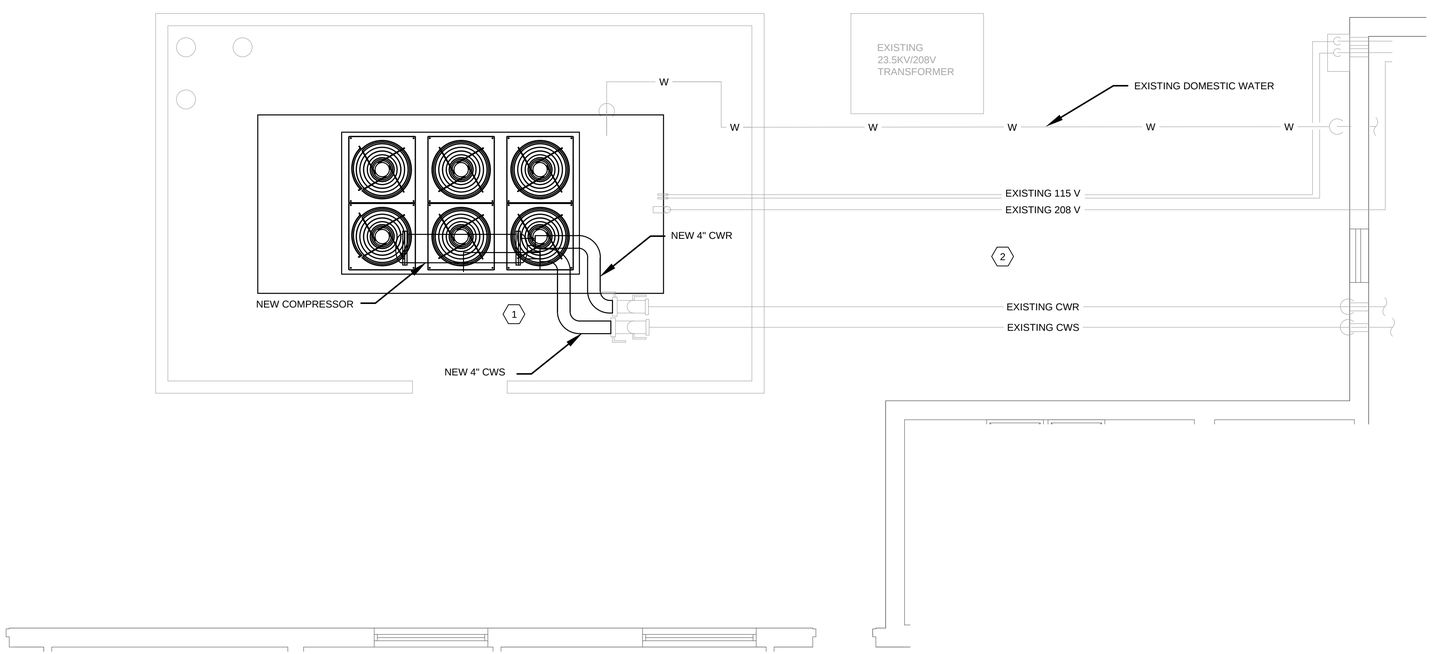
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.85901
PROJECT NO. MAHG241108

MECHANICAL INSTALLATION AREA C AND D

SHEET ID
M-403

100% DESIGN SUBMITTAL



1 CHILLER NEW WORK DETAIL
SCALE : 1/4" = 1'-0"

0 2' 4' 8'

NORTH

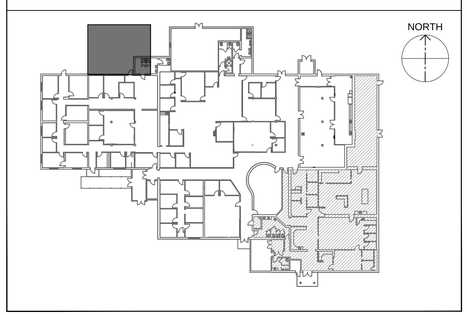
GENERAL MECHANICAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. CONSTRUCTION MUST BE COMPLETED PER SMACNA STANDARDS, NFPA CODES AND STANDARDS, AND UFC.
3. SEE SHEET M-501 FOR CHILLER INSTALLATION DETAILS
4. SEE SHEET M-701 FOR CHILLER SCHEDULE
5. PIPING SHOWN IS FOR GENERAL POINT-OF-CONNECTION ONLY AND IS NOT INTENDED TO SHOW SPECIFIC DETAILS.
6. VERIFY ALL DIMENSIONS.
7. PROVIDE TEMPERATURE AND PRESSURE GAUGES AS INDICATED.
8. PIPE MUST BE SCHEDULE 40 STEEL PIPE.
9. PROVIDE ALL PIPING, INCLUDING BUT NOT LIMITED TO VALVES, FITTINGS, INSULATION, ETC.
10. PROVIDE ALL PIPING SUPPORTS AND HANGERS.
11. ALL CHILLED WATER PIPING MUST BE INSULATED WITH 2" THICK PRE-FORMED CELLULAR GLASS (FOAMGLASS) INSULATION.
12. DEMOLITION WORK MUST BE SCHEDULED WITH THE NEW INSTALLATION WORK.
13. DISPOSE OF ANY MATERIALS REMOVED FROM THE WORK AREA IN ACCORDANCE WITH ALL FEDERAL STATE AND LOCAL LAWS, CODES AND REGULATIONS.
14. REMOVE DEMOLISHED MATERIALS ON A DAILY BASIS AND DO NOT ALLOW DEBRIS OR TRASH TO ACCUMULATE IN THE BUILDING.
15. INFORMATION ON DRAWINGS IS SCHEMATIC ITS REPRESENTATION.
16. ALL SERVICES ARE TO BE KEPT IN OPERATION AT ALL TIMES, EXCEPT WHEN SPECIFIC PERMISSION IS GIVEN TO DO OTHERWISE. BEFORE ANY SERVICES ARE INTERRUPTED, COORDINATE WITH CONTRACTING OFFICER TO DO WORK AT A TIME MOST CONVENIENT TO THE OCCUPANTS. THIS PROCEDURE MUST REQUIRE THE LENGTH OF THE INTERRUPTION AGREED BY CONTRACTING OFFICER IN ADVANCE.

MECHANICAL KEYNOTES

1. PROVIDE NEW WATERCOOLED CHILLER PER CHILLER SCHEDULE. SEE SHEET M-701.
2. TIE NEW CHILLER INTO EXISTING CHILLED WATER SUPPLY AND RETURN PIPING.

KEYPLAN - FIRST FLOOR



81st TRAINING WING

MARK	DESCRIPTION	DATE

DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D
ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

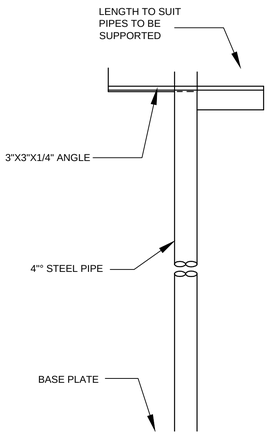
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

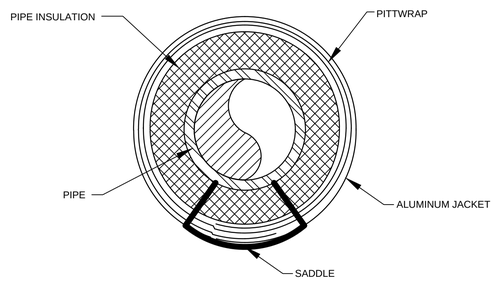
CHILLER INSTALLATION

SHEET ID
M-404

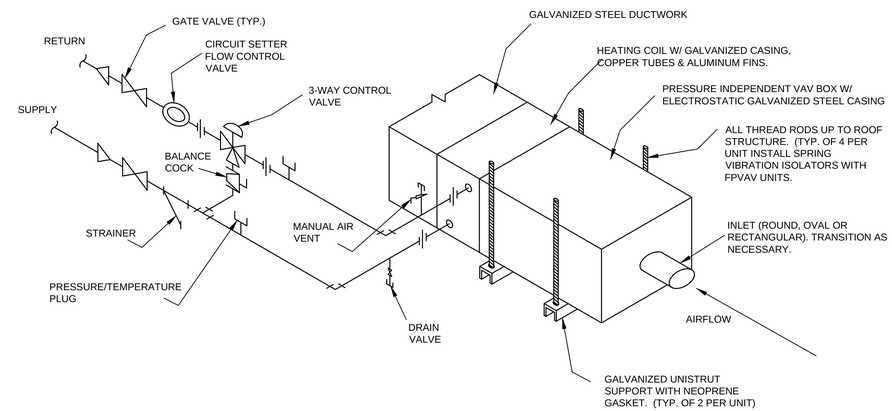
100% DESIGN SUBMITTAL



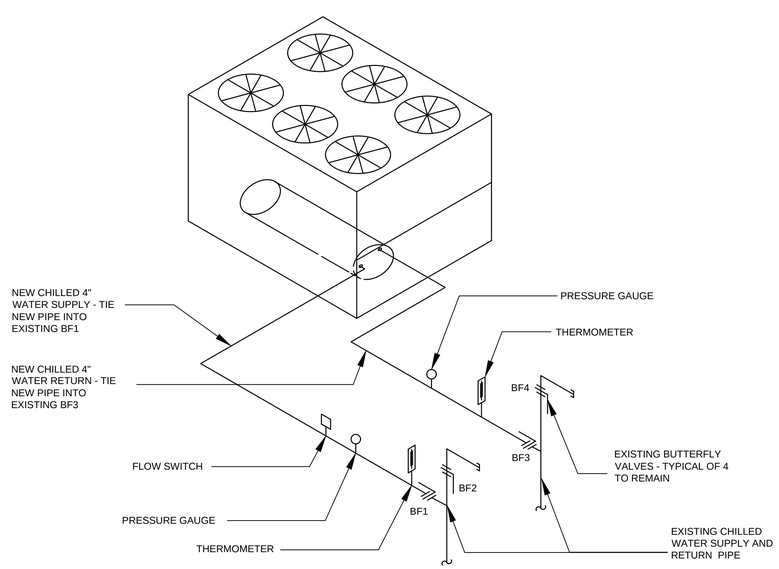
4 PIPE SUPPORT DETAIL
SCALE : N.T.S.



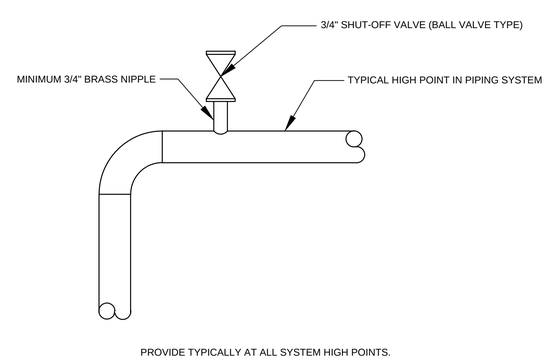
5 PIPE SADDLE DETAIL
SCALE : N.T.S.



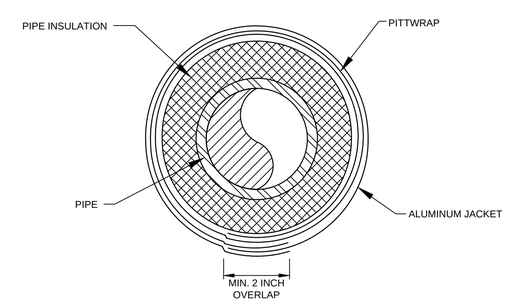
6 VAV DETAIL
SCALE : N.T.S.



1 AIR COOLED CHILLER PIPING
SCALE : N.T.S.



2 MANUAL AIR VENT
SCALE : N.T.S.



3 WEATHERPROOFING OF PIPE
SCALE : N.T.S.

81st TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:
DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D

81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

MECHANICAL DETAILS

SHEET ID
M-501

100% DESIGN SUBMITTAL

DIFFUSER, REGISTER & GRILLE SCHEDULE

TAG	DESCRIPTION	FACE	NECK	DIRECTION	NOTES
A	DIFFUSER	24"x24"	8" DIA.	SUPPLY	1,2,3, & 5
B	REGISTER	24"x24"	22"x22"	RETURN/EXHAUST	1,2,3,4,5 & 7

1. COORDINATE MOUNTING FRAME WITH CEILING/WALL TYPE.
2. COORDINATE COLOR & FINISH WITH CONTRACTING OFFICER.
3. NC (NOISE CRITERIA) LEVEL MAY BE NO GREATER THAN 25.
4. PROVIDE GRILLE WITH BORDER FLANGE FOR LAY-IN TYPE CEILINGS. SEE PLAN FOR LOCATIONS.
5. PROVIDE WITH ALUMINUM OPPOSED BLADE DAMPER.
6. PROVIDE WITH REAR OPERATED OPPOSED BLADE DAMPER.
7. PROVIDE DUCT FITTING TO MATCH NECK SIZE.

VAV UNIT SCHEDULE

MARK	DESIGN AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	AIR PRESS DROP (INCHES WTR)	HEATING CAPACITY					MAXIMUM SOUND (NC)
				GPM	EWT*F	LWT*F	BTUH	WTR PRESS LOSS (FT)	
EXISTING V1-1	1000	500	.2	2.7	180	160	27,000	4.2	30
NEW V1-2	**1800**	**540**	.2	2.4	180	160	24,400	4.2	30
EXISTING V1-3	900	450	.2	2.4	180	160	24,400	4.2	30
EXISTING V1-4	900	450	.2	2.4	180	160	24,400	4.2	30
EXISTING V1-5	480	340	.15	1.8	180	160	18,500	3	28
EXISTING V1-6	480	340	.15	1.8	180	160	18,500	3	28
EXISTING V2-1	800	260	.28	1.4	180	160	14,100	3	30
EXISTING V2-2	480	240	.38	1.3	180	160	13,000	2	28
EXISTING V2-3	480	240	.38	1.3	180	160	13,000	2	28
EXISTING V2-4	600	300	.2	1.6	180	160	16,250	2	26
EXISTING V2-5	320	220	.2	1.2	180	160	11,900	2	28
EXISTING V2-6	480	240	.2	1.3	180	160	13,000	2	28
EXISTING V2-7	320	100	.2	.5	180	160	5,400	2	30
EXISTING V2-8	600	300	.2	1.6	180	160	16,250	2	26
EXISTING V2-9	1000	350	.2	1.9	180	160	19,000	3	30
EXISTING V2-10	360	180	.25	1.0	180	160	9,800	2	28
EXISTING V2-11	360	180	.25	1.0	180	160	9,800	2	30
EXISTING V2-12	2400	800	.25	4.3	180	160	43,400	5	26
EXISTING V4-1	**280**	200	.4	1.1	180	160	10,850	2	30
NEW V4-2	**1300**	**450**	.28	2.4	180	160	24,400	3	26
EXISTING V4-3	**700**	450	.28	2.4	180	160	24,400	3	26
EXISTING V4-4	**200**	200	.28	1.1	180	160	10,850	2	26

CHILLER SCHEDULE

UNIT						EVAPORATOR DATA					COMPRESSOR		CONDENSER		
MARK	LOCATION	MIN. CAP. TONS	AMBIENT TEMP F	MIN. EFF.		GPM	WATER TEMP F		FOULING FACTOR	MAX PD FT.	NUMBER RLA (EA)	VOLT/PH	NUMBER RLA (EA)	VOLT/PH	REMARKS
				KW	KW/TON		ENT	LVG							
CH-1	BLDG 5901	80	105	88.4	1.105	192	54	44	0.0001	18	1/110	460/3	6/5.2	460/3	

1 - LOW AMBIENT TO 0°F
2 - TWO INDEPENDENCE REF. CIRCUITS
3 - FLOW SWITCH
4 - CONTROL POWER TRANSFORMER
5 - VARIABLE SPEED DRIVE WITH SOFT START
6 - MICRO PROCESSOR CONTROLLED MAGNETIC BEARING SYSTEM
7 - REFRIGERANT 134A

CHILLER AND CONDENSER POINTS LIST

	OUTPUT		INPUT		VIRTUAL		LOCAL CONTROLLER			BMS			FULL BMS INTEGRATION
	DIGITAL	ANALOG	DIGITAL	ANALOG	DIGITAL	ANALOG	VISIBLE	ADJUSTABLE	OVERRIDABLE	VISIBLE	ADJUSTABLE	OVERRIDABLE	
CONDENSER CD STATUS/ALARM			X				X			X			
CONDENSER CD START/STOP	X									X		X	
CHILLED WATER SUPPLY FLOW				X			X			X			
CHILLED WATER SUPPLY TEMPERATURE				X			X			X			
CHILLED WATER RETURN FLOW				X			X			X			
CHILLED WATER RETURN TEMPERATURE				X			X			X			

NOTES:
THE CONDENSER / COMPRESSOR MODULATION AND ASSOCIATED INSTRUMENTATION AND I/O POINTS SHALL BE PER STANDARD MANUFACTURER CONTROLS.

81st TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:
DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D

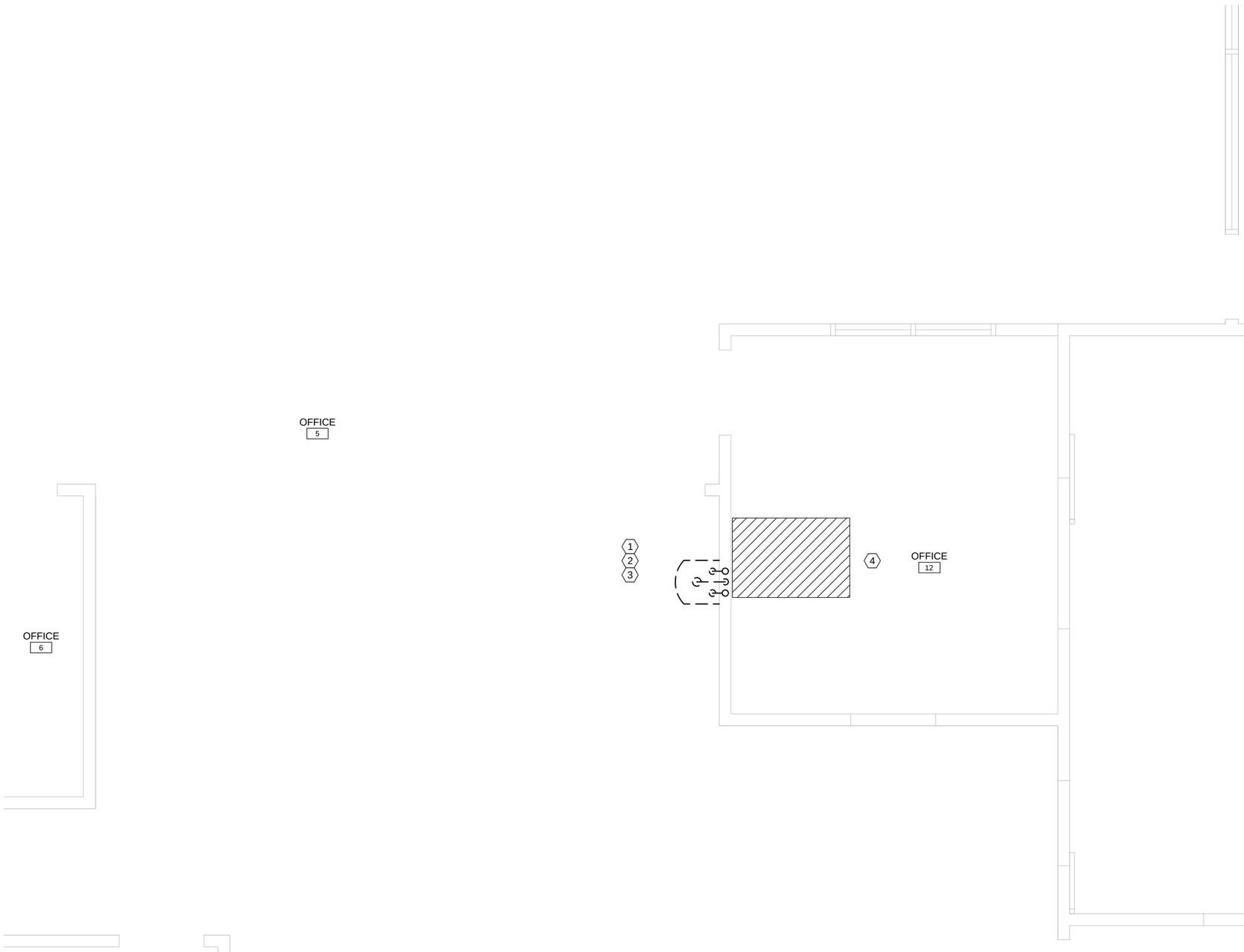
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

MECHANICAL SCHEDULES

SHEET ID
M-701

100% DESIGN SUBMITTAL



1 PLUMBING DEMOLITION PLAN
SCALE : 1/2" = 1'-0"
0 1' 2' 4'
NORTH

PLUMBING GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. REMOVE AND RETAIN EXISTING WATER FOUNTAIN

PLUMBING KEY NOTES

1. DEMO EXISTING HW AND CW SUPPLY FROM FOUNTAIN BACK TO CEILING.
2. DEMO EXISTING WASTE TO FLOOR
3. DEMO EXISTING VENT UP TO CEILING
4. SAW CUT SLAB TO REMOVE EXISTING DRAIN ABOVE THE FLOOR AND ALLOW FOR NEW DRAIN LINE TO BE TIED IN AT NEW FOUNTAIN LOCATION. COORDINATE WITH P-402.

PLUMBING LEGEND

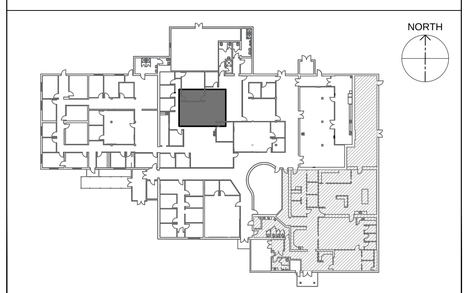
SAW CUT SLAB

REMOVE WATER FOUNTAIN

PLUMBING ELBOW UP

PLUMBING ELBOW DOWN

KEYPLAN - FIRST FLOOR



MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: C. REED, SMA
SUBMITTED BY:
SIZE: ANSI-D

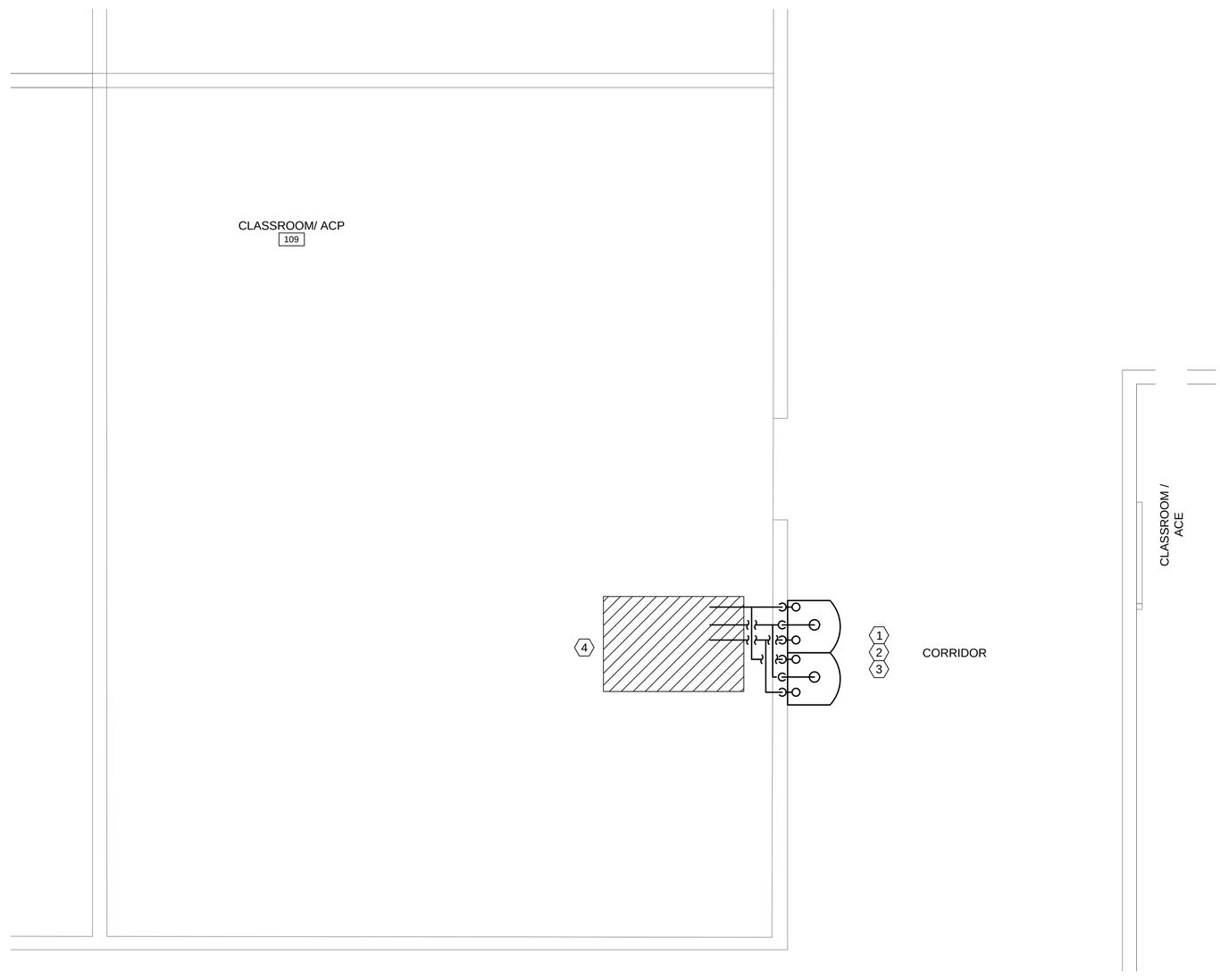
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.B5901
PROJECT NO. MAHG241108

LARGE SCALE DEMOLITION FLOOR PLANS

SHEET ID
P-401

100% DESIGN SUBMITTAL



1 PLUMBING INSTALLATION PLAN
SCALE : 1/2" = 1'-0"
0 1 2' 4'

PLUMBING GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. REINSTALL WATER FOUNTAIN
3. PROVIDE NEW SUPPLY, DRAIN, AND VENT PIPE. TIE INTO EXISTING.
4. COORDINATE WITH ARCHITECTURAL AND CIVIL FOR PATCHING HOLES IN FLOOR.

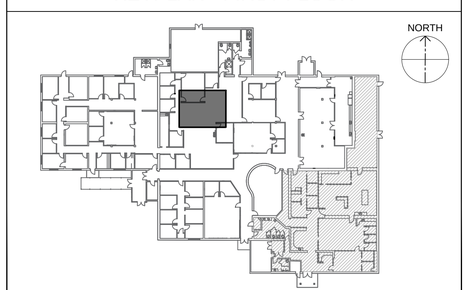
PLUMBING KEY NOTES

1. PROVIDE 1" HW AND 1" CW SUPPLY FROM CEILING TO FOUNTAIN TIE IN TO EXISITNG
2. PROVIDE 2" WASTE TO FLOOR TIE IN TO EXISTING
3. PROVIDE 2" VENT THROUGH ROOF UP TO CEILING TIE IN TO NEW WASTE AND EXISTING VTR
4. PATCH GROUNDWORK NEEDED FOR CONNECTING NEW DRAIN LINE TO EXISTING

PLUMBING LEGEND

- PATCH CONCRETE SLAB
- REINSTALL WATER FOUNTAIN
- PLUMBING ELBOW UP
- PLUMBING ELBOW DOWN

KEYPLAN - FIRST FLOOR



81st TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D

81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

PLUMBING INSTALLATION PLAN

SHEET ID
P-402

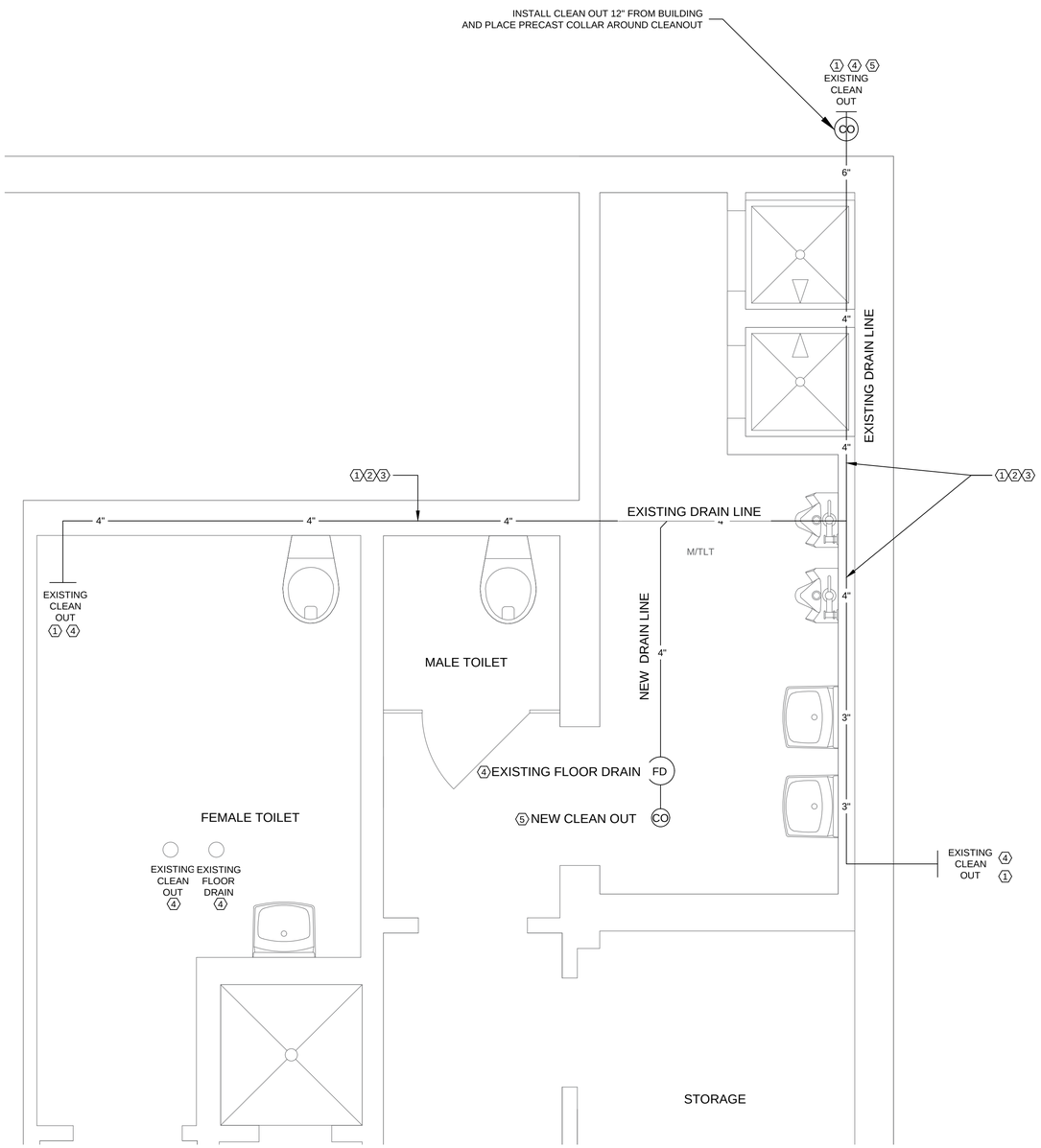
100% DESIGN SUBMITTAL

PLUMBING GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR TO SURVEY AND ASSESS PLUMBING BLOCKAGE IN SEWER LINES.

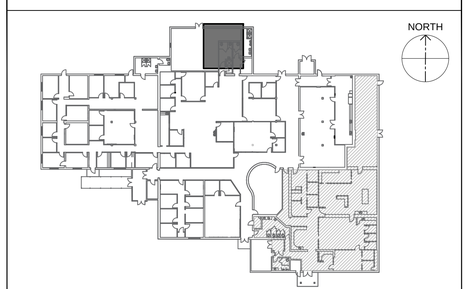
PLUMBING KEY NOTES

1. SCOPE (CAMERA) EXISTING DRAIN-LINE TO LOCATE THE OBSTRUCTION/BLOCKAGE IN THE LINE.
2. IF THERE IS AN OBSTRUCTION / BLOCKAGE LOCATED, CLEAR LINE.
3. IF UNABLE TO CLEAR THE LINE, REMOVE & REPLACE THE LINE, UNDER THE WOOD WALLS MATCH EXISTING LINE SIZE. REFER TO SHT. A-401 FOR FLOOR/WALL DEMOLITION. AND SHT. A-402 FOR NEW WORK CONSTRUCTION.
4. CONTRACTOR LOCATE AND VERIFY.
5. PROVIDE AND INSTALL CLEANOUTS.



1 NORTH RESTROOM DRAIN-LINE REPAIR
SCALE : 1/2" = 1'-0"
0 1' 2' 4'

KEYPLAN - FIRST FLOOR



81ST TRAINING WING

MARK	DESCRIPTION	DATE

DESIGNED BY: G. REED
DRAWN BY: SMA
CHECKED BY: G.REED & SMA
SUBMITTED BY:
SIZE: ANSI-D
ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

81ST CIVIL ENGINEER SQUADRON
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RENOVATE ARNOLD HALL FOR SWING SPACE.85901
PROJECT NO. MAHG241108

NORTH RESTROOM DRAIN-LINE REPAIR

SHEET ID
P-403

100% DESIGN SUBMITTAL

APPLICABLE CODES

UFC 1-200-01: GENERAL BUILDING REQUIREMENTS, (OCTOBER 2019 EDITION)

UFC 3-600-01: DESIGN : FIRE PROTECTION ENGINEERING FOR FACILITIES (AUGUST 2016 EDITION, CHANGE 4, FEB 2020)

UFC 4-021-01: DESIGN AND O&M: MASS NOTIFICATION SYSTEMS (APRIL 2008 EDITION, CHANGE 1, JAN 2010)

NFPA 1, 2018: FIRE CODE

NFPA 10, 2018: STANDARD FOR PORTABLE EXTINGUISHERS

NFPA 13, 2019: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

NFPA 17A, 2017: STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS

NFPA 30, 2018: FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE

NFPA 70, 2018: NATIONAL ELECTRICAL CODE

NFPA 72, 2019: NATIONAL FIRE ALARM AND SIGNALING CODE

NFPA 90A, 2018: STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS

NFPA 101, 2018: LIFE SAFETY CODE

IBC 2018: INTERNATIONAL BUILDING CODE

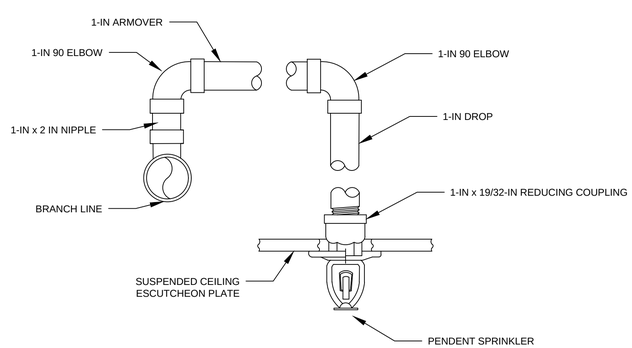
FIRE SPRINKLER GENERAL NOTES

1. MODIFY THE WET PIPE AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE AREA OF RENOVATION. REUSE THE EXISTING SPRINKLER HEADS AS MUCH AS POSSIBLE. THE ESTIMATED SPRINKLER HEAD CONFLICT IS ESTIMATED TO BE LESS THAN 20 HEADS.
2. SPRINKLER SYSTEM DESIGN AND INSTALLATION MUST COMPLY WITH THE APPLICABLE CODES, PROJECT SPECIFICATIONS, AND RFP.
3. ONLY LISTED AND/OR APPROVED DEVICES AND MATERIALS AS SPECIFIED IN NFPA 13, SPECIFICATIONS AND DRAWINGS MUST BE INSTALLED THROUGHOUT THE SYSTEMS
4. ONLY LISTED AND/OR APPROVED NEW SPRINKLERS MUST BE EMPLOYED IN THE INSTALLATION OF THE SPRINKLER SYSTEM.
5. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE EXACT LOCATIONS OF COMPONENTS, NOR SHOW ALL SYSTEM COMPONENTS. PROVIDE ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/ OR TO MAINTAIN PROPER CLEARANCES. COORDINATE FINAL INSTALLATION WITH ACTUAL FIELD CONDITIONS AND OTHER CONSTRUCTION TRADES. DESIGN THE SPRINKLER SYSTEM TO PROVIDE COMPLETE PROTECTION THROUGHOUT IN ACCORDANCE WITH NFPA 13.
6. THE LOCATION OF THE DRAIN RISER AND DRAIN DISCHARGE MUST BE COORDINATED WITH THE CONTRACTING OFFICER. DRAINS MUST DISCHARGE TO THE EXTERIOR. PROVIDE A CONCRETE SPLASH BLOCK FOR EXTERIOR DRAINS.
7. AUXILIARY DRAINS AND INSPECTOR'S TEST VALUES MUST BE INSTALLED AS REQUIRED AND LOCATIONS MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
8. EXPOSED PIPING MUST NOT BE PERMITTED, UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONTRACTING OFFICER.
9. THE SPRINKLER CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATION OF SPRINKLER PIPING WITH OTHER TRADES.
10. ALL VALVES MUST HAVE PERMANENTLY AFFIXED SIGNS INDICATING THEIR FUNCTION AND NORMAL POSITION.
11. ADEQUATE CLEARANCE, AS DEFINED BY NFPA 13, MUST BE PROVIDED BETWEEN SPRINKLERS AND HEAT GENERATING DEVICES.
12. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING DESCRIPTIONS AND HEIGHTS.
13. THE ENTIRE SYSTEM MUST BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13 AND THE SPRINKLER CONTRACTOR MUST FORMALLY SUBMIT THE TEST RESULTS.
14. SPRINKLER CONTRACTOR MUST COORDINATE WITH FIRE ALARM CONTRACTOR FOR CONNECTION TO FIRE ALARM SYSTEM AND TRANSMISSION OF ALARMS TO CENTRAL STATION.
15. THE CONTRACTOR'S SPRINKLER PLANS MUST BE APPROVED BY THE AHJ PRIOR TO THE INSTALLATION OF ANY PIPE.
16. SPRINKLER SYSTEM WATER SUPPLY MUST BE UNDERGROUND WATER MAINS LOCATED ADJACENT TO THE EXISTING BUILDING. SEE CIVIL AS BUILTS.
17. FIRE DEPARTMENT CONNECTION (FDC) MUST BE PROVIDED. THE LOCATION OF THE FDC MUST BE APPROVED BY THE AHJ. THE FDC MUST BE LOCATED AT THE BUILDING EXTERIOR WITHIN 150 FT OF A FIRE HYDRANT.
18. THE USE OF EXTENDED COVERAGE SPRINKLERS ARE NOT PERMITTED.
19. THE NEW SYSTEM MUST HAVE A MINIMUM SAFETY FACTOR OF 10 PERCENT BETWEEN THE SPRINKLER SYSTEM DEMAND AND THE AVAILABLE WATER SUPPLY.
20. PROVIDE A MINIMUM 12PSI PRESSURE LOSS THROUGH THE BACKFLOW PREVENTER OR ACTUAL PRESSURE LOSS, WHICHEVER IS GREATER.
21. WET PIPE SPRINKLER PIPE MUST BE U.L. LISTED BLACK STEEL, MINIMUM SCHEDULE 40 FOR PIPE DIAMETERS 2 INCH AND LESS AND MINIMUM SCHEDULE 10 FOR PIPE DIAMETER LARGER THAT 2 INCH.
22. WITHIN FINISHED CEILINGS, PROVIDE RECESSED QUICK-RESPONSE SPRINKLERS WITH ORDINARY TEMPERATURE RATING. PROVIDE WHITE SPRINKLERS AND ESCUTCHEON PLATES.
23. PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS IN THE SYSTEM TO VENT AT LEAST 95% OF THE VOLUMETRIC CAPACITY OF THE SYSTEM. LIMIT NUMBER OF AUTOMATIC AIR VENTS THROUGH MEANS SUCH AS CONNECTING BRANCH LINES OR PROVIDING A CROSS MAIN AT THE PEAK.
24. SPRINKLER SYSTEM MUST BE HYDRAULICALLY DESIGNED.
25. ALL PIPE PENETRATIONS THROUGH FIRE RATED BARRIERS MUST BE PROVIDED WITH U.L. LISTED FIRE STOP SYSTEMS. THIS INCLUDES BUT IS NOT LIMITED TO STAIRS FLOORS, CEILINGS, AND SHAFTS.
26. UL CLASSIFICATIONS AND MATERIAL PRODUCT DATA SHEETS FOR ALL FIRE STOPPING SYSTEMS MUST BE SUBMITTED AND APPROVED BEFORE ANY FIRE STOPPING IS INSTALLED.
27. SYSTEM ACTIVATION VIA PADDLE-TYPE WATER FLOW SWITCHES.

SPRINKLER DESIGN HATCH LEGEND

IDENTIFIER	OCCUPANCY	MAX CEILING HEIGHT (FT)	SPRINKLER TYPE	DENSITY GPM/FT^2	DESIGN AREA (FT^2)	TOTAL HOSE STREAM (GAL/MIN)	DURATION (MIN)	MINIMUM K-FACTOR	REFERENCE
	LIGHT HAZARD	30	STANDARD COVERAGE, QUICK RESPONSE	0.10	1500	250	60	5.6	UFC 3-600-01 TABLE 9-3 & TABLE 9-4

2 SPRINKLER DESIGN HATCH LEGEND
SCALE : N.T.S.



1 ARM-OVER VIEW
SCALE : N.T.S.

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D

81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

FIRE SUPPRESSION GENERAL SHEET

SHEET ID
FS-100

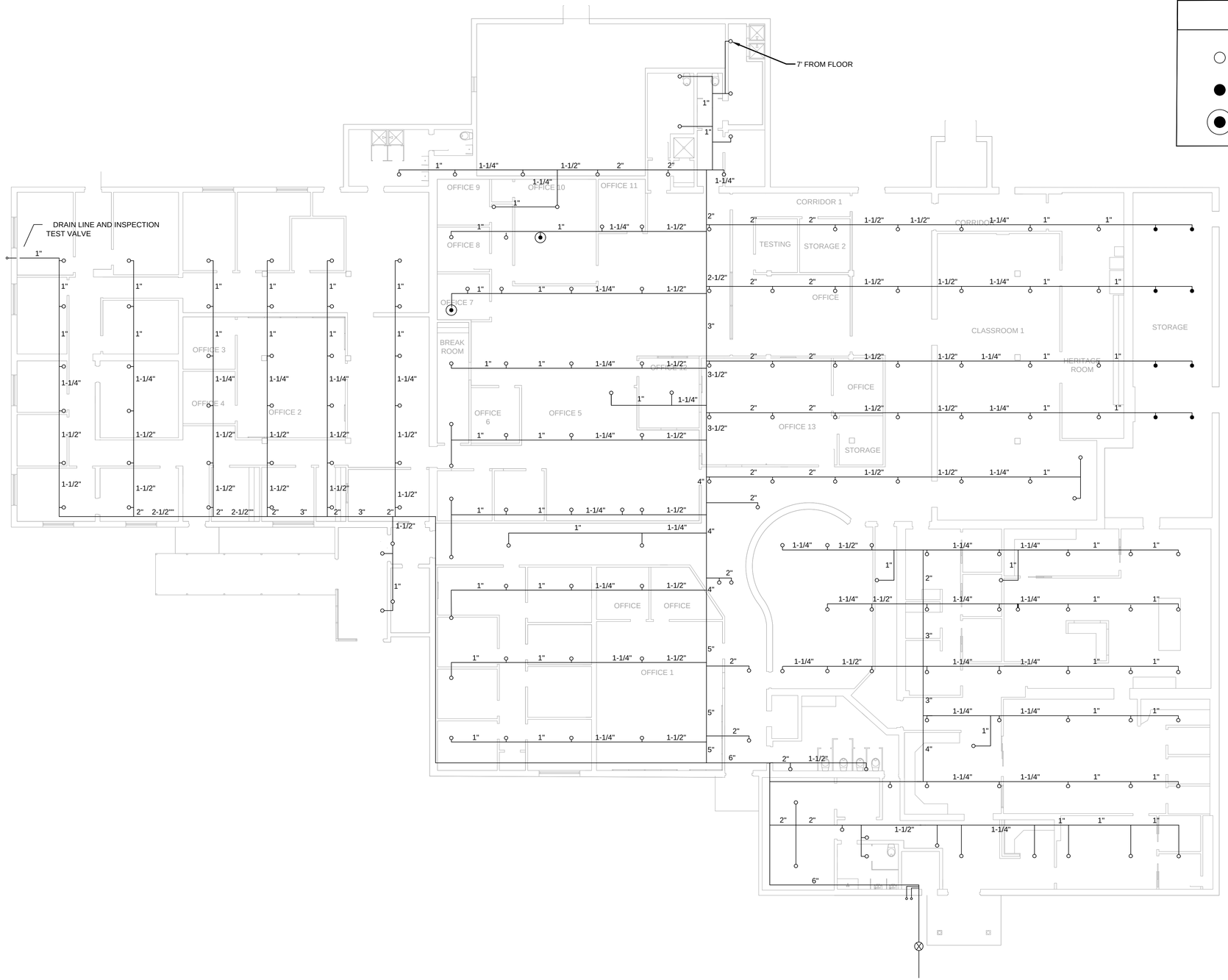
100% DESIGN SUBMITTAL

GENERAL MECHANICAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

MECHANICAL LEGEND

- EXISTING SPRINKLER HEAD 165 DEGREES.
- EXISTING SPRINKLER HEAD 135 DEGREES.
- POTENTIAL SPRINKLER HEAD CONFLICT WITH NEW CONSTRUCTION



1 EXISTING FIRE SUPPRESSION
SCALE : 3/32" = 1'-0"
0 5' 10 20'
NORTH

MARK	DESCRIPTION	DATE

ISSUED DATE: MARCH 2026
SOLICITATION NO.:
CONTRACT NO.:
DESIGNED BY: A. LOWE
DRAWN BY: D. HEMPHILL
CHECKED BY: G. REED
SUBMITTED BY: E. CLEVELAND
SIZE: ANSI D

81ST CIVIL ENGINEER SQUADRON
508 L STREET B4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NUMBER: MAHG241108

EXISTING FIRE SUPPRESSION SYSTEM

SHEET ID
FS-101

100% DESIGN SUBMITTAL

SPRINKLER DESIGN HATCH LEGEND

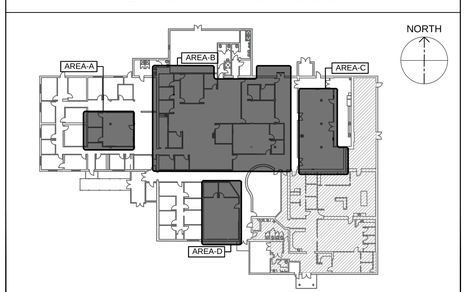
IDENTIFIER	OCCUPANCY	MAX CEILING HEIGHT (FT)	SPRINKLER TYPE	DENSITY GPM/FT^2	DESIGN AREA (FT^2)	TOTAL HOSE STREAM (GAL/MIN)	DURATION (MIN)	MINIMUM K-FACTOR	REFERENCE
	LIGHT HAZARD	30	STANDARD COVERAGE, QUICK RESPONSE	0.10	1,500	250	60	5.6	UFC 3-600-01 TABLE 9-3 & TABLE 9-4

FIRE SUPPRESSION NOTES

1. THE FIRE PROTECTION MUST BE MODIFIED BY DESIGN HYDRAULICALLY, SIZED, AND BID USING SCHEDULE 50 GROOVES, THREADED OR WELDED OR PIPE TO NFPA 13 AND THE LOCAL BUILDING CODE. HYDRAULIC CALCULATIONS MUST BE PERFORMED AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL AS PART OF THE SHOP DRAWING REVIEW PROCEDURE. SCHEDULE 10 ASTM-135 ROLL GROOVED PIPE WITH MECHANICAL COUPLINGS MAY BE USED FOR PIPE SIZES 3" AND LARGER WHERE APPROVED BY LOCAL AUTHORITIES.
2. LIGHT HAZARD: OFFICE SPACES, STAIRWELLS, 0.1 GPM/SQFT OF FLOW DENSITY FOR THE MOST REMOTE AREA OF 1500 SQFT FOR THE COVERAGE OF 200 sq ft PER SPRINKLER WITH INSIDE HOSE STREAM ALLOWANCE OF 250 GPM.
3. ORDINARY HAZARD: STORAGE ROOM STOCK PILE UP TO 8 FT, MECHANICAL ROOMS, ELECTRICAL ROOMS, COMMUNICATIONS ROOMS, KITCHEN SPACES. 0.2 GPM/SQFT OF FLOW DENSITY FOR THE MOST REMOTE AREA OF 2500 SQFT FOR THE COVERAGE OF 130 SQFT PER SPRINKLER WITH INSIDE HOSE STREAM ALLOWANCE OF 250 GPM.

1 FIRE SUPPRESSION PLAN
SCALE : 3/32" = 1'-0"
0 5' 10' 20'
NORTH

KEYPLAN - FIRST FLOOR



81st TRAINING WING

MARK	DESCRIPTION	DATE

DESIGNED BY: A. TOWE
DRAWN BY: L. FIELDING
CHECKED BY:
SUBMITTED BY:
SIZE: ANSI-D
ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

FIRE SUPPRESSION PLAN

SHEET ID
FS-102

100% DESIGN SUBMITTAL

APPLICABLE CODES

CODES TO BE FOLLOWED INCLUDE BUT ARE NOT LIMITED TO:

UFC 1-200-01: DOD BUILDING CODE

UFC 3-600-01: DESIGN: FIRE PROTECTION ENGINEERING FOR FACILITIES

UFC 3-601-02: FIRE PROTECTION SYSTEMS INSPECTION, TESTING, AND MAINTENANCE

UFC 4-021-01: DESIGN AND O&M: MASS NOTIFICATION SYSTEMS

UFC 4-730-10: FIRE STATIONS

UFC 3 501-01: ELECTRICAL ENGINEERING

UFC 3-350-01 EXTERIOR ELECTRICAL POWER DISTRIBUTION

UFC 3-520-01 INTERIOR ELECTRICAL SYSTEMS

UFC 3-530-01: INTERIOR AND EXTERIOR LIGHTING

NFPA 1: FIRE CODE

NFPA 70: NATIONAL ELECTRICAL CODE

NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE

IBC: INTERNATIONAL BUILDING CODE

GENERAL ELECTRICAL NOTES

1. CONTRACTOR REQUIRED TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BID AND START OF CONSTRUCTION. NOTIFY CONTRACTING OFFICER OF ANY CONDITIONS DETRIMENTAL TO THE COMPLETION OF THE WORK AS DESIGNED.
2. PROTECT ALL ELEMENTS TO REMAIN SUCH AS EXISTING UTILITIES, FACILITY, ROADS, CURBS, DRIVES, SIDEWALKS, METAL CARPORTS, SOLID SOD, ETC. CONTRACTOR TO RESTORE ANY DAMAGED ELEMENTS TO THE ORIGINAL CONDITIONS.
3. CONFINE ALL WORK TO SPECIFIC AREAS AS DESIGNATED IN THE SCOPE OF WORK AND SCHEDULE.
4. REFER TO MATERIAL SPECIFICATION IN SCOPE OF WORK FOR REQUIREMENTS AND APPLICATIONS.
5. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL 811 TO LOCATE ALL UTILITIES, ANY UTILITY ADJUSTMENTS, EXISTING OR PROPOSED, REQUIRED TO COMPLETE CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. THIS ITEM INCLUDES, BUT IS NOT LIMITED TO: THE TEMPORARY RELOCATION OF EXISTING OVERHEAD POWER LINES. ALL WORK IN THE VICINITY OF OVERHEAD POWER LINES SHALL CONFORM TO OSHA REQUIREMENTS AND ANY OTHER APPLICABLE (LOCAL) SAFETY REQUIREMENTS. THE CONTRACTOR IS TO REPAIR ANY DAMAGES TO EXISTING UTILITIES THAT ARE TO REMAIN SERVICE IN SERVICE IMMEDIATELY AT NO ADDITIONAL COSTS OR EXPENSE TO THE GOVERNMENT.
6. ALL ELECTRICAL WORK IS NEW, UNLESS OTHERWISE NOTED, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC, NFPA, OSHA IN EFFECT AT THE START OF THE CONTRACT AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ELECTRICAL EQUIPMENT AND CONNECTIONS INCLUDING CONTROL WIRING IN CONDUIT SYSTEM TO OTHER DISCIPLINES' EQUIPMENT AS INDICATED/AS REQUIRED FOR A COMPLETE, FUNCTIONAL ELECTRICAL CONTROL SYSTEM. FOR CLARITY, NOT ALL FINAL CONNECTION AND/OR WIRING ARE SHOWN ON THE DRAWINGS.
7. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS, JUNCTION BOXES, WIRE TROUGHS, PULL BOXES OR OTHER REQUIRED ELEMENTS FOR PROPER INSTALLATION OF THE WORK. ALL NECESSARY MATERIALS NEEDED TO FULFILL THE PROJECT REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE GOVERNMENT. SIZES SHALL BE PER APPLICABLE CODES.
8. THE LOCATIONS OF SWITCHES, PANELS AND OTHER EQUIPMENT ARE APPROXIMATE. COORDINATE AND INSTALL THESE ITEMS SO AS TO ELIMINATE INTERFERENCE WITH DUCTS, PIPES AND ALL OTHER EQUIPMENT AND UTILITIES. ADJUST MOUNTING HEIGHTS AND PROVIDE APPROPRIATE MOUNTING HARDWARE AS REQUIRED.
9. PROVIDE EQUIPMENT GROUNDING TO ALL CIRCUITS, SIZED AS PER NEC, NFPA, AND AS SHOWN ON THE DRAWINGS.
10. COMPLY WITH NFPA, UFC, OTHER APPLICABLE CODES AND AUTHORITY HAVING JURISDICTION OR AS SHOWN ON THE DRAWINGS FOR MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES. MAINTAIN MINIMUM WORKING CLEARANCES REQUIRED BY NEC, NFPA, UNLESS APPROVED IN WRITING.
11. DO NOT DISTURB ANY WIRING WHOSE ORIGIN, FUNCTION OR UTILITY ARE UNKNOWN WITHOUT PRIOR APPROVAL FROM THE CO. FIELD VERIFY ALL CIRCUITS BEING IMPACTED PRIOR TO THE START OF WORK.
12. NOTIFY THE CO IF A CONDITION PREVENTS THE INTENT OF THESE PLANS.
13. FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLATIONS, UNLESS INDICATED OR SPECIFIED OTHERWISE. ADVISE THE CO AND OBTAIN WRITTEN DIRECTION FROM THE CO IF CONFLICTS EXIST BETWEEN MANUFACTURERS REQUIREMENTS AND CONTRACT DOCUMENTS PRIOR TO THE START OF THE AFFECTED WORK.
14. CONDUCTORS/CONDUIT SIZES LABELED FOR EACH BRANCH CIRCUIT/FEEDER RUN SHALL BE CONSIDERED THE SAME FOR ALL DOWNSTREAM RUNS UNTIL THE SIZES ARE CHANGED OR TERMINATED.
15. PROVIDE A TYPED DIRECTORY IN ALL PANEL BOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS.
16. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, TRANSFER SWITCHES, AND DISCONNECT SWITCHES, COLORS AS PROVIDED IN THE SPECIFICATIONS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION.
18. THE WORD "PROVIDE" MEANS TO PROVIDE AND INSTALL UNLESS NOTED OTHERWISE.
19. THIS SHEET IS A STANDARD SHEET. CERTAIN SYMBOLS AND ABBREVIATIONS INDICATED ON THIS SHEET MAY NOT APPEAR ON THE DRAWINGS.
20. CONTRACTOR WILL BE RESPONSIBLE TO VERIFY THE BUILDING/STRUCTURE SERVICE VOLTAGES IN ORDER TO SELECT THE EQUIPMENTS NEEDED IN THIS PROJECT TO WORK PROPERLY.BEFORE CONNECTING THE ANY EQUIPMENT, THE CONTRACTOR SHALL VERIFY AND TEST IF THE PROPER VOLTAGE IS SUPPLIED.
21. IAW UFC 3-520 PAR 3,2.5.1(CURRENT EDITION) CIRCUITS BREAKERS IN NEW PANELS SHALL BE BOLT-ON TYPE, UNLESS THE EXISTING PANELS ONLY PERMIT PLUG-ON BREAKERS.
22. WHEN INSTALLING MOTOR AND PUMPS, THE CONTRACTOR IS RESPONSIBLE TO PROVIDE UNDER THIS PROJECT THE MOTOR STARTERS/CONTROL PANEL AS REQUIRED BY THE MANUFACTURER.
23. GROUNDING CONDUCTORS FOR SURGE ARRESTERS SHALL NOT BE RUN IN METAL ENCLOSURES UNLESS THE METAL RACEWAY IS BONDED TO BOTH ENDS TO THE GROUNDING CONDUCTOR.
24. WHEN PENETRATING WALLS THAT ARE FIRE RATED, A 2 HOURS MIN. FIRE STOP KIT SEALANT SHALL BE APPLIED TO SEAL AREA AROUND CONDUIT AND WALL HIGHER RATING SHOULD BE USED WHEN WALL IS RATED OVER 2 HOURS.

LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EXISTING RECEPTACLE 18' AFF UNO.
- EXISTING DATA PORT
- EXISTING SURFACE-MOUNTED RECEPTACLE
- EXISTING SURFACE-MOUNTED DATA OUTLET
- PP — EXISTING SYSTEMS FURNITURE POWER POLE
- EXISTING HDMI (TO REMAIN)
- EXISTING TWIST LOCK RECEPTACLE
- EXISTING SYSTEMS FURNITURE PIGTAIL
- (D) — (D) DEMOLISH
- LIMITED WORK IN THIS AREA
- ANTENNA SIGNAL CONDUIT
- ANTENNA POWER CONDUIT
- EXISTING 2X4 LIGHT FIXTURE TO BE REMOVED
- EXIT SIGN
- EXISTING CEILING GRID TO BE REMOVED
- NEW WALL
- LED BACK-LIT LUMINAIRE
- CEILING / WALL MOUNTED EXIT SIGN / EMERGENCY LIGHT COMBO
- COPPER GROUND BAR 4" X 8" X 1/4"
- COMBINATION HORN STROBE
- SPRINKLER HEAD
- LIGHT STROBE
- MANUAL PULL STATION

81st TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: H. SANTIAGO
DRAWN BY: P. THOMAS
CHECKED BY: H. SANTIAGO
SUBMITTED BY:
SIZE: ANSI-D

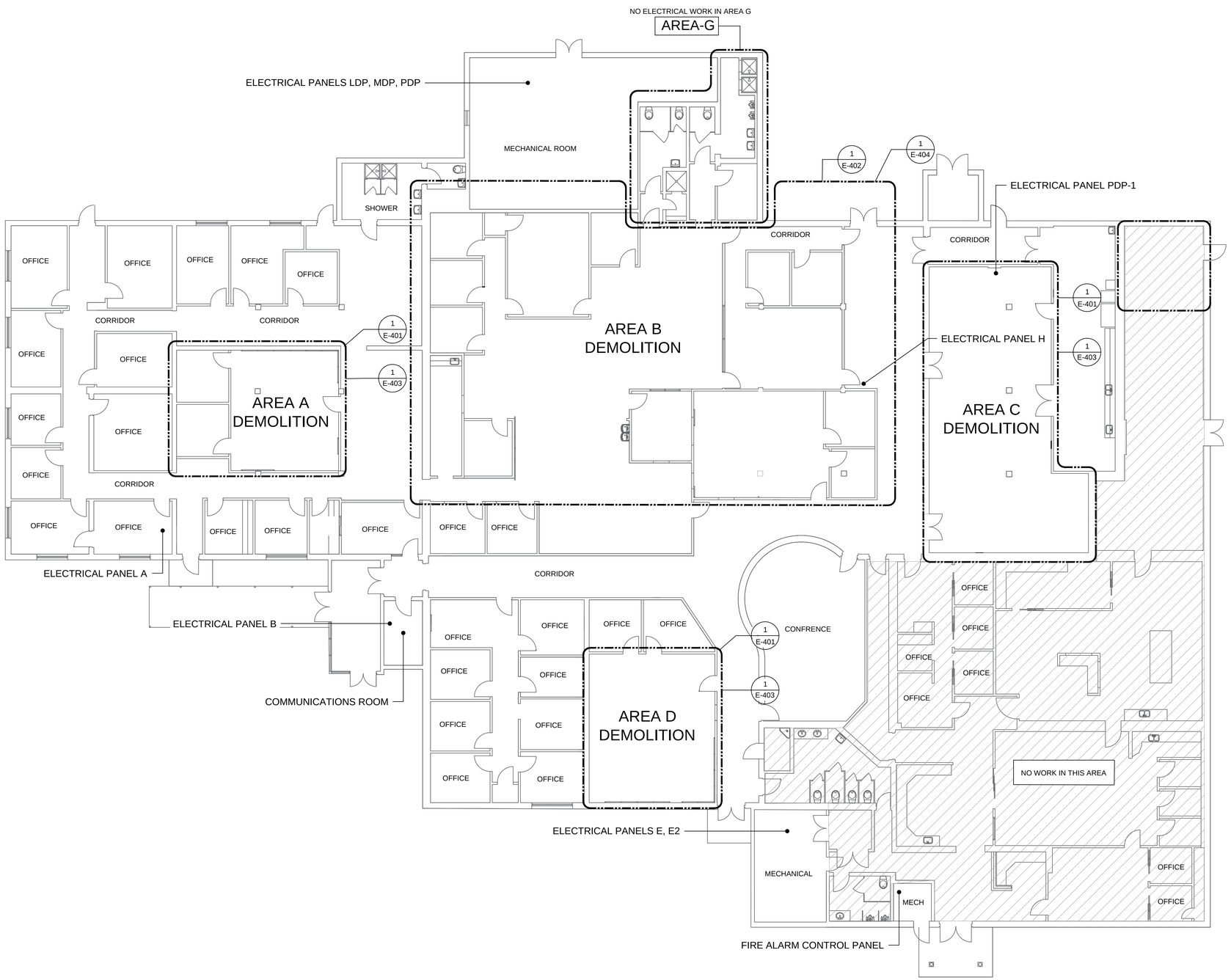
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.85901
PROJECT NO. MAHG241108

GENERAL ELECTRICAL NOTES

SHEET ID
E-001

100% DESIGN SUBMITTAL



GENERAL ELECTRICAL SHEET NOTES

1. ENLARGED VIEWS SHOWN INDICATE THE MAJOR WORK AREAS AND ARE FOR REFERENCE ONLY. VERIFY ALL WORK LOCATIONS PRIOR TO CONSTRUCTION

ENLARGED VIEW INDEX

E-401 - DEMOLITION PLAN - AREAS A,C,D
E-402 - DEMOLITION PLAN - AREA B
E-403 - DEMOLITION PLAN - AREAS A,C,D REFLECTED CEILING PLAN
E-404 - DEMOLITION PLAN - AREA B REFLECTED CEILING PLAN

LEGEND

LIMITED WORK IN THIS AREA

1 OVERALL DEMOLITION PLAN - ELECTRICAL
SCALE : 3/32" = 1'-0"

0 5' 10' 20'

NORTH

81st TRAINING WING

MARK	DESCRIPTION	DATE

DESIGNED BY: H. SANTIAGO
DRAWN BY: P. THOMAS
CHECKED BY: H. SANTIAGO
SUBMITTED BY: H. SANTIAGO
SIZE: ANSI-D
ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

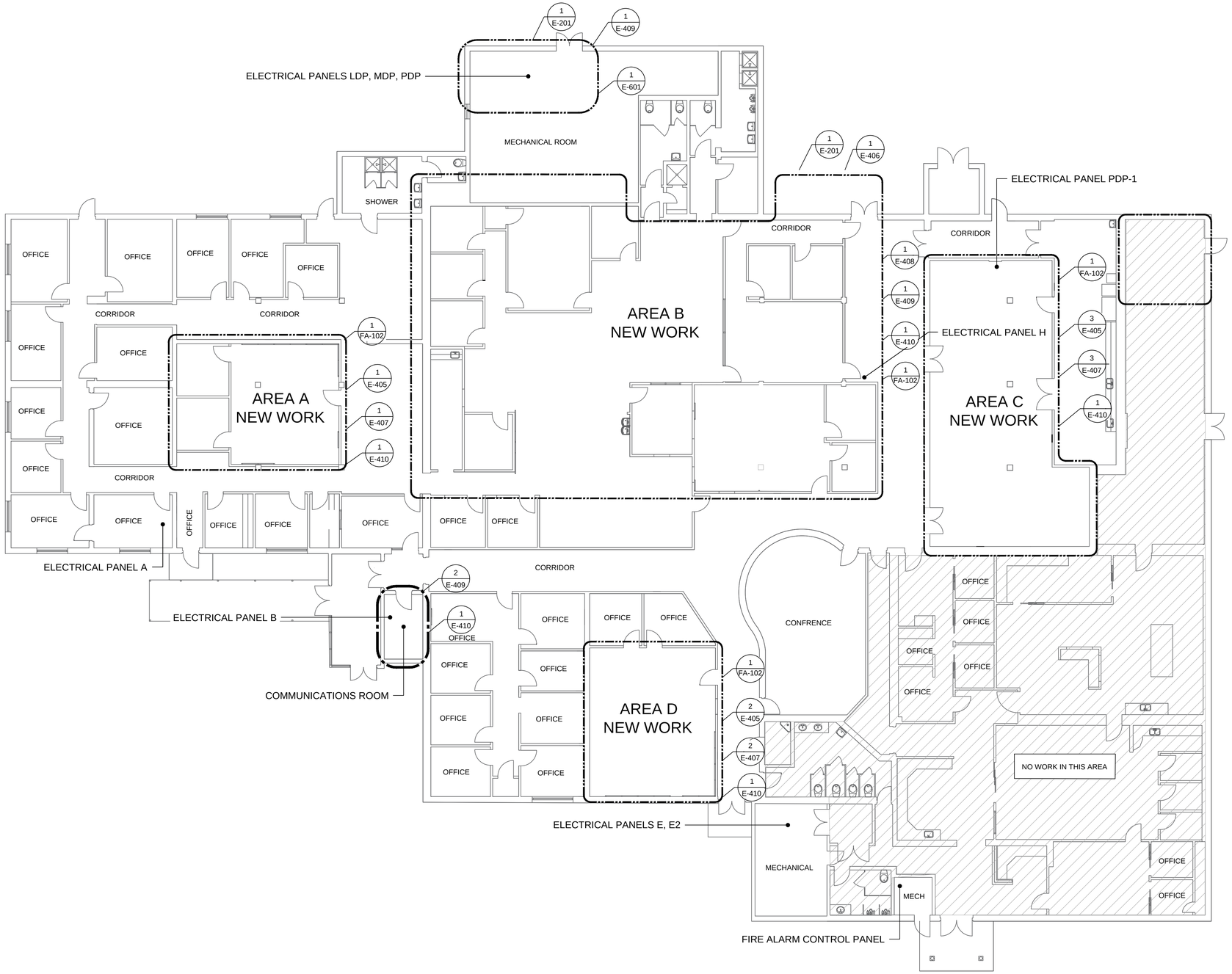
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE B5901
PROJECT NO. MAHG241108

OVERALL DEMOLITION PLAN
ELECTRICAL

SHEET ID
E-101

100% DESIGN SUBMITTAL



1 OVERALL NEW WORK PLAN - ELECTRICAL
SCALE : 3/32" = 1'-0"

0 5' 10' 20'

GENERAL ELECTRICAL SHEET NOTES

1. ENLARGED VIEWS SHOWN INDICATE THE MAJOR WORK AREAS AND ARE FOR REFERENCE ONLY. VERIFY ALL WORK LOCATIONS PRIOR TO CONSTRUCTION

ENLARGED VIEW INDEX

E-101 - OVERALL NEW WORK PLAN, ELECTRICAL
E-201 - ELEVATION DETAILS, ANTENNA EXTERIOR POWER & ETHERNET
E-405 - NEW WORK - AREA A,C,D
E-406 - NEW WORK - AREA B
E-407 - NEW WORK - AREAS A,C,D REFLECTED CEILING PLAN
E-408 - NEW WORK - AREA B REFLECTED CEILING PLAN
E-409 - ANTENNA CONDUIT DETAILS
E-410 - GROUND BARS FOR CLASSROOMS
E-601 - PANEL SCHEDULES
FA-102 - NEW WORK - FIRE ALARM

LEGEND

LIMITED WORK IN THIS AREA

MARK	DESCRIPTION	DATE

81st TRAINING WING

DESIGNED BY: H. SANTIAGO
DRAWN BY: P. THOMAS
CHECKED BY: H. SANTIAGO
SUBMITTED BY: H. SANTIAGO
SIZE: ANSI-D
ISSUE DATE: MARCH, 2026
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81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
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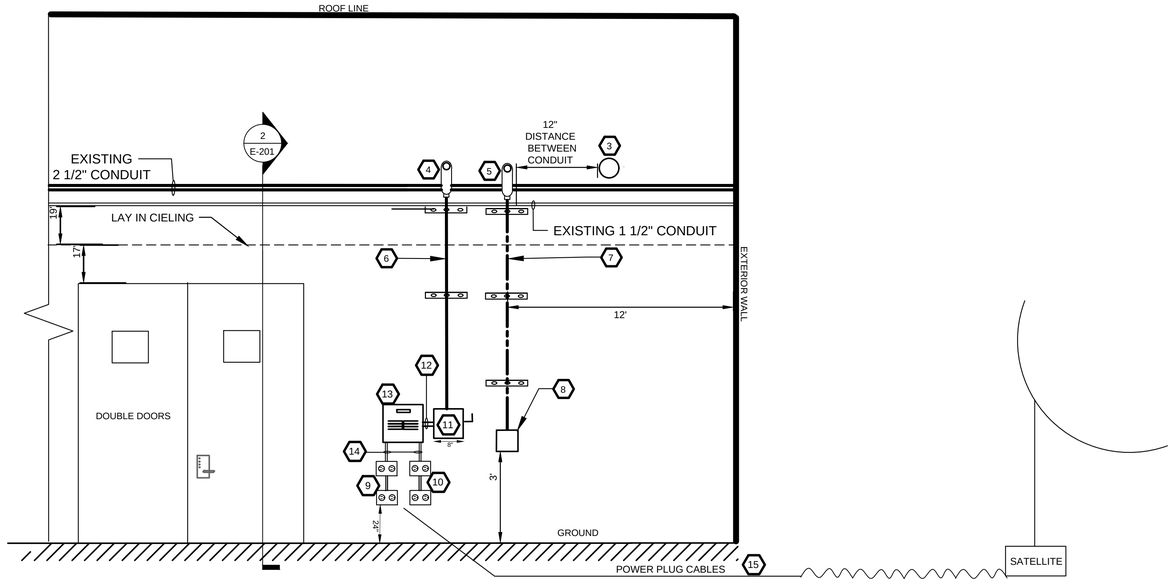
KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE B5901
PROJECT NO. MAHG241108

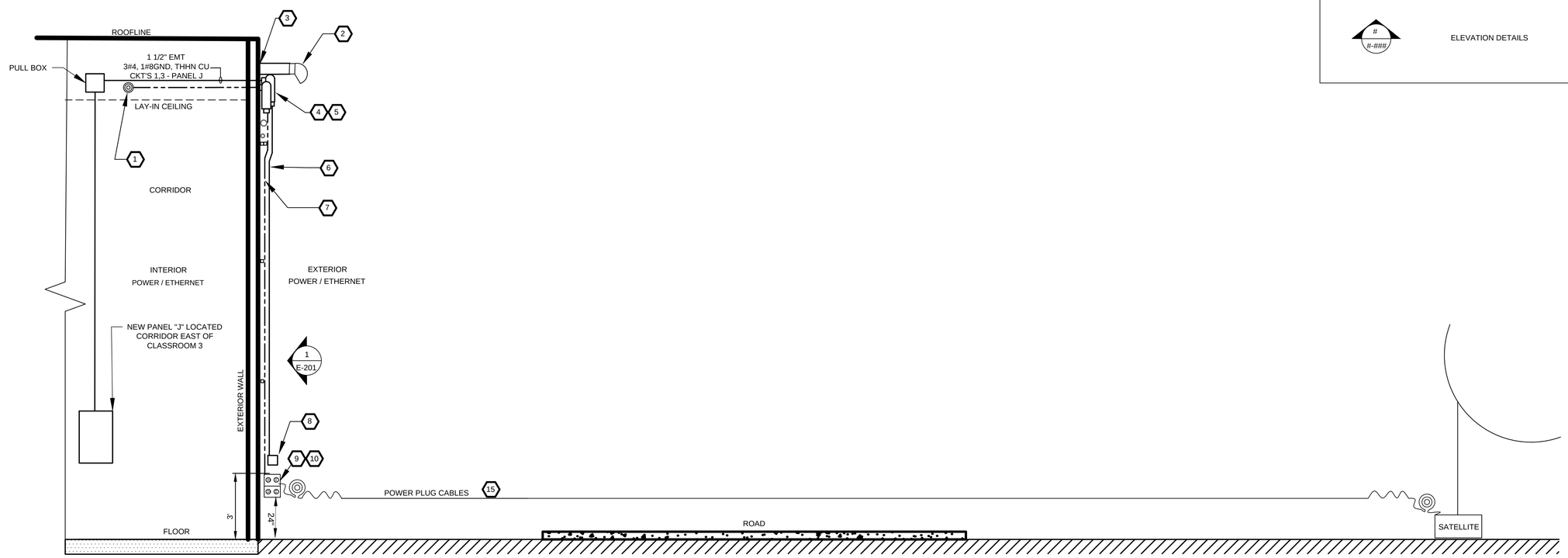
OVERALL NEW WORK PLAN - ELECTRICAL

SHEET ID
E-102

100% DESIGN SUBMITTAL



1 EXTERIOR ELEVATION CONDUIT DETAIL
SCALE : N.T.S.



2 EXTERIOR ELEVATION CONDUIT DETAIL
SCALE : N.T.S.

GENERAL ELECTRICAL SHEET NOTES

1. MAINTAIN MINIMUM 18" SEPARATION BETWEEN ANTENNA SIGNAL AND POWER WIRING
2. SEE SHEET E-409 FOR ADDITIONAL INSTALLATION, ELEVATION AND SECTION DETAILS

ELECTRICAL KEYNOTES

1. ETHERNET CABLE BUNDLE (PROVIDED & INSTALLED BY GOVERNMENT)
2. TYPE F CONDULET FOR 4" RGSC
3. 4" PENETRATION WITH TYPE "F" CONDULET FOR COAXIAL CABLES, WHICH WILL BE ROUTED ABOVE THE ROOF (PROVIDED & INSTALLED BY GOVERNMENT)
4. 1 1/2" RGSC PENETRATION FOR POWER CABLES WITH CONDULET LB
5. 3" RGSC PENETRATION FOR ETHERNET CABLES WITH CONDULET LB
6. 1 1/2" RIGID GALVANIZED STEEL CONDUIT (RSGC) FOR POWER, WITH OFFSET TO CLEAREXISTING 2 1/2 CONDUIT
7. 3" RIGID GALVANIZED STEEL (RGSC) FOR ETHERNET, WITH OFFSET TO CLEAR EXISTING 2 1/2" CONDUIT.(CABLES TO BE PROVIDED AND INSTALLED BY GOVT.)
8. NEMA3R 6 X 6 X 6 JUNCTION BOX FOR ETHERNET
9. 120V DUPLEX RECEPTACLE (GFCI) W/ WEATHERPROOF COVER, EACH RECEPTACLE SHALL BE ON A DEDICATED CIRCUIT CKT# 1 & 2
10. 120V DUPLEX RECEPTACLE (GFCI) W/ WEATHERPROOF COVER, EACH RECEPTACLE SHALL BE ON A DEDICATED CIRCUIT CKT# 3 & 4
11. NEMA 3R FUSED DISCONNECT 60A-2P CKT# J-1&3
12. 3 #4, 1 #8 GROUND THHN CU in 1 1/2 RGSC FROM DISCONNECT TO SUB PANEL
13. NEMA 3R SUB PANEL 120V / 208V 60A-2P 4 CIRCUITS .
14. 3/4" RGSC FOR 2 #10 W/ #12 GROUND THHN CU, TO FEED RECEPTACLES.
15. POWER PLUG CABLES PROVIDED AND INSTALLED BY GOVERNMENT.

LEGEND

# / #-####	ELEVATION DETAILS

81st TRAINING WING

MARK	DESCRIPTION	DATE

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DESIGNED BY: H. SANTIAGO
DRAWN BY: P. THOMAS
CHECKED BY: H. SANTIAGO
SUBMITTED BY:
SIZE: ANSI-D

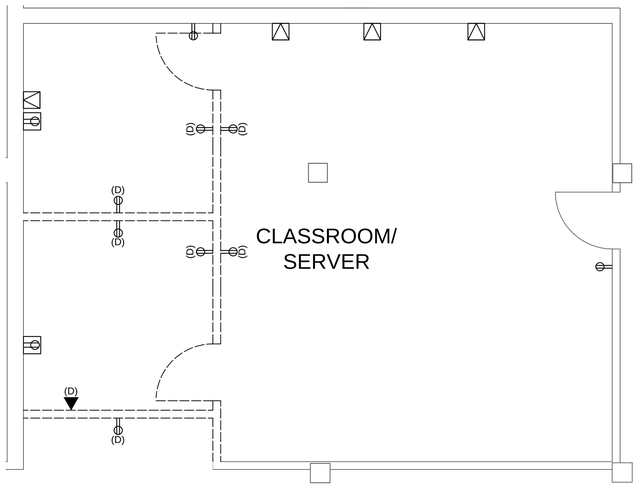
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

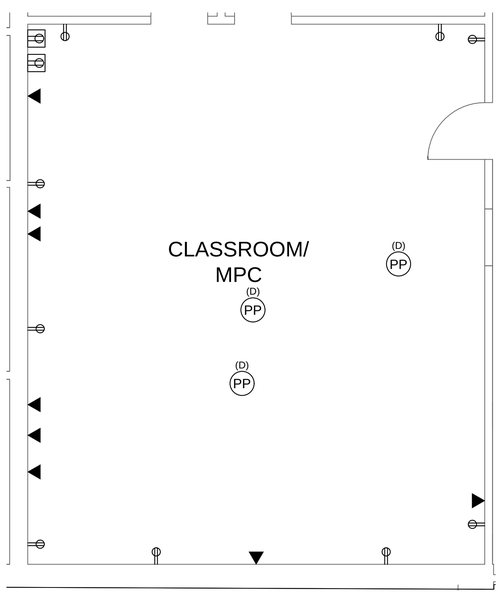
ELEVATION DETAILS ANTENNA
EXTERIOR POWER & ETHERNET

SHEET ID
E-201

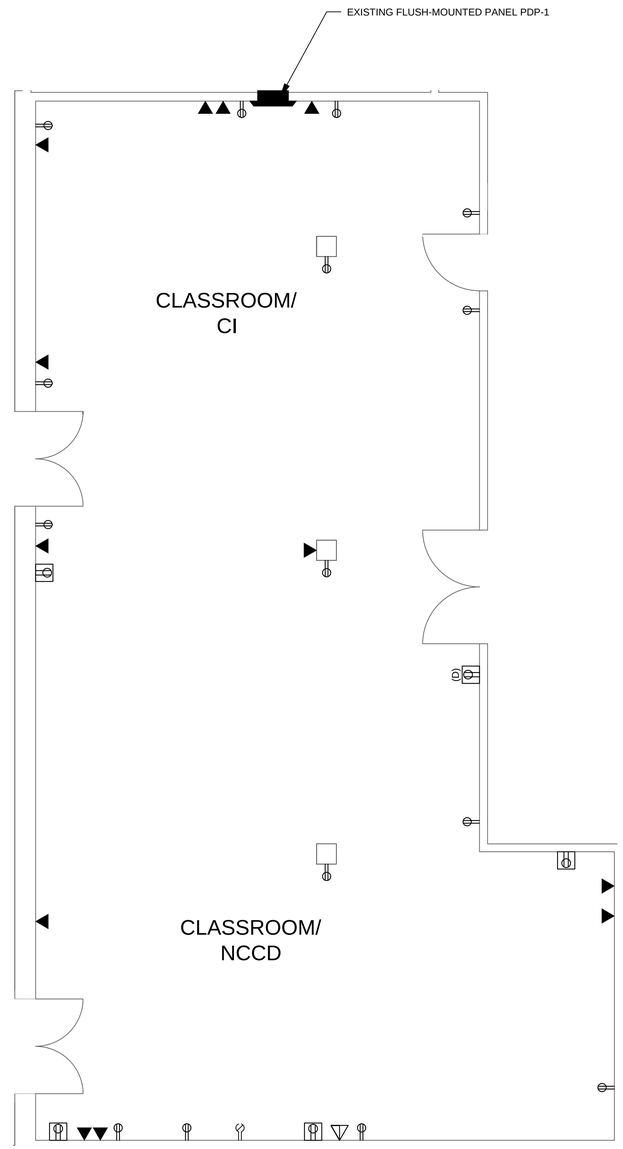
100% DESIGN SUBMITTAL



1 DEMOLITION PLAN - AREA A
SCALE : 1/4" = 1'-0"
0 2' 4' 8'



2 DEMOLITION PLAN - AREA D
SCALE : 1/4" = 1'-0"
0 2' 4' 8'



3 DEMOLITION PLAN - AREA C
SCALE : 1/4" = 1'-0"
0 2' 4' 8'

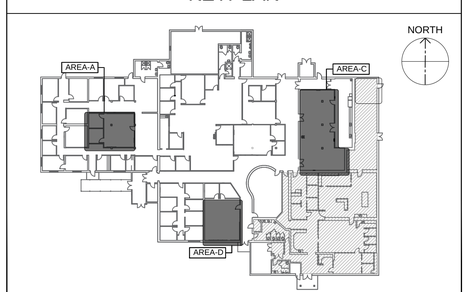
GENERAL ELECTRICAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE GOVERNMENT PRIOR TO ANY DEMOLITION OR NEW WORK. ALL WORK AND SHUT-DOWNS MUST BE COORDINATED WITH THE GOVERNMENT CONTRACTING OFFICER AND BUILDING PERSONNEL BEFORE STARTING CONSTRUCTION ACTIVITIES
3. ALL IN-WALL DATA OUTLETS AND RECEPTACLES ON WALLS NOT BEING DEMOLISHED TO REMAIN, UNLESS OTHERWISE NOTED
4. ALL RECEPTACLE AND DATA CIRCUITS ON WALLS BEING DEMOLISHED SHALL BE DISCONNECTED AND REMOVED BACK TO THE ELECTRICAL OR TELECOM ROOM
5. REFER TO AS-BUILT DRAWINGS FOR EXISTING CIRCUIT LOCATIONS AND DIAGRAMS
6. ALL ELECTRICAL OUTLET HEIGHTS AND LOCATIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY LOCATIONS AND HEIGHTS OF ALL OUTLETS TO REMAIN
7. ALL EQUIPMENT/DEVICES NOT MARKED TO BE DEMOLISHED/RELOCATED ARE TO REMAIN

LEGEND

	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
(D)	(D) DEMOLISH
	EXISTING RECEPTACLE
	EXISTING DATA PORT
	EXISTING SURFACE-MOUNTED RECEPTACLE
	EXISTING SURFACE-MOUNTED DATA OUTLET
PP	EXISTING SYSTEMS FURNITURE POWER POLE
	EXISTING HDMI (TO REMAIN)

KEYPLAN



81ST TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: H. SANTIAGO
DRAWN BY: P. THOMAS
CHECKED BY: H. SANTIAGO
SUBMITTED BY:
SIZE: ANSI-D

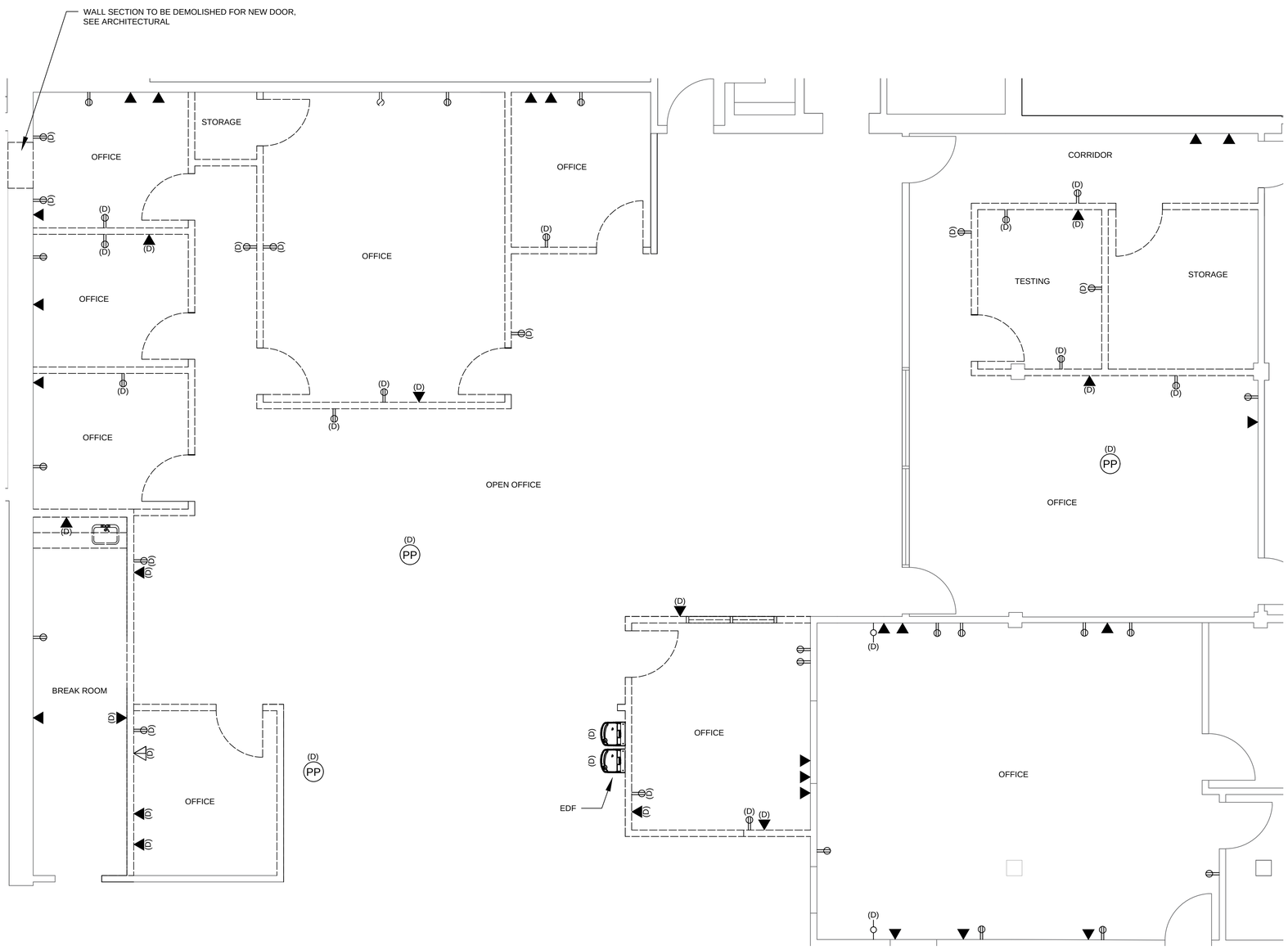
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

DEMOLITION PLAN - AREAS A,C,D

SHEET ID
E-401

100% DESIGN SUBMITTAL



1 DEMOLITION PLAN - AREA B
SCALE : 1/4" = 1'-0"

0 2' 4' 8'

NORTH

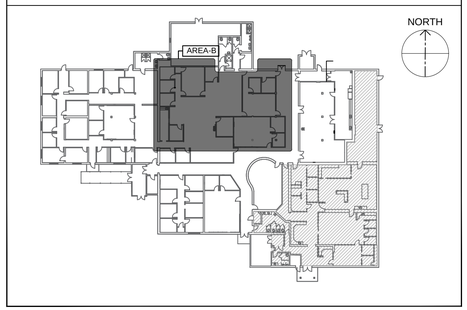
GENERAL ELECTRICAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE GOVERNMENT PRIOR TO ANY DEMOLITION OR NEW WORK. ALL WORK AND SHUT-DOWNS MUST BE COORDINATED WITH THE GOVERNMENT CONTRACTING OFFICER AND BUILDING PERSONNEL BEFORE STARTING CONSTRUCTION ACTIVITIES
3. ALL IN-WALL DATA OUTLETS AND RECEPTACLES ON WALLS NOT BEING DEMOLISHED TO REMAIN, UNLESS OTHERWISE NOTED
4. ALL RECEPTACLE AND DATA CIRCUITS ON WALLS BEING DEMOLISHED SHALL BE DISCONNECTED AND REMOVED BACK TO THE ELECTRICAL OR TELECOM ROOM
5. REFER TO AS-BUILT DRAWINGS FOR EXISTING CIRCUIT LOCATIONS AND DIAGRAMS
6. ALL ELECTRICAL OUTLET HEIGHTS AND LOCATIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY LOCATIONS AND HEIGHTS OF ALL OUTLETS TO REMAIN
7. ALL EQUIPMENT/DEVICES NOT MARKED TO BE DEMOLISHED/RELOCATED ARE TO REMAIN

LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- (D) — (D) DEMOLISH
- EXISTING RECEPTACLE
- EXISTING DATA PORT
- EXISTING SURFACE-MOUNTED RECEPTACLE
- EXISTING SURFACE-MOUNTED DATA OUTLET
- PP — EXISTING SYSTEMS FURNITURE POWER POLE (TO BE REMOVED)
- EXISTING HDMI (TO REMAIN)
- EXISTING TWIST LOCK RECEPTACLE
- EXISTING SYSTEMS FURNITURE PIGTAIL

KEYPLAN



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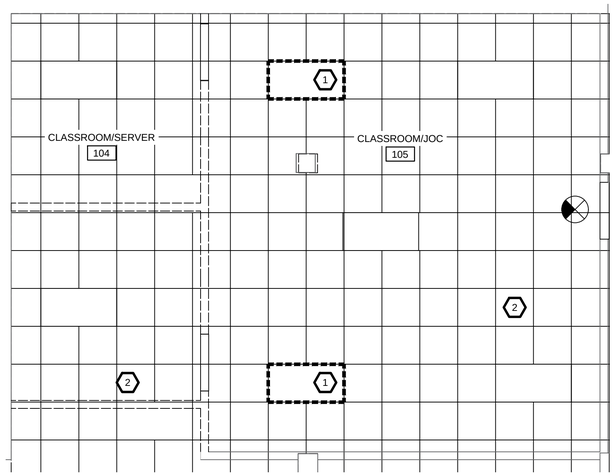
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.B5901
PROJECT NO. MAHG241108

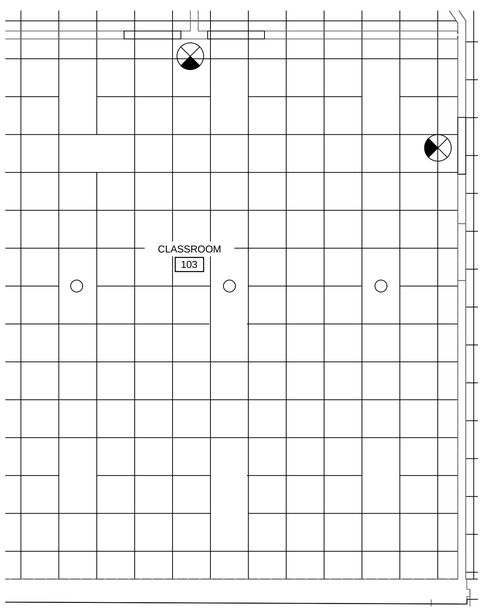
DEMOLITION PLAN - AREA B

SHEET ID
E-402

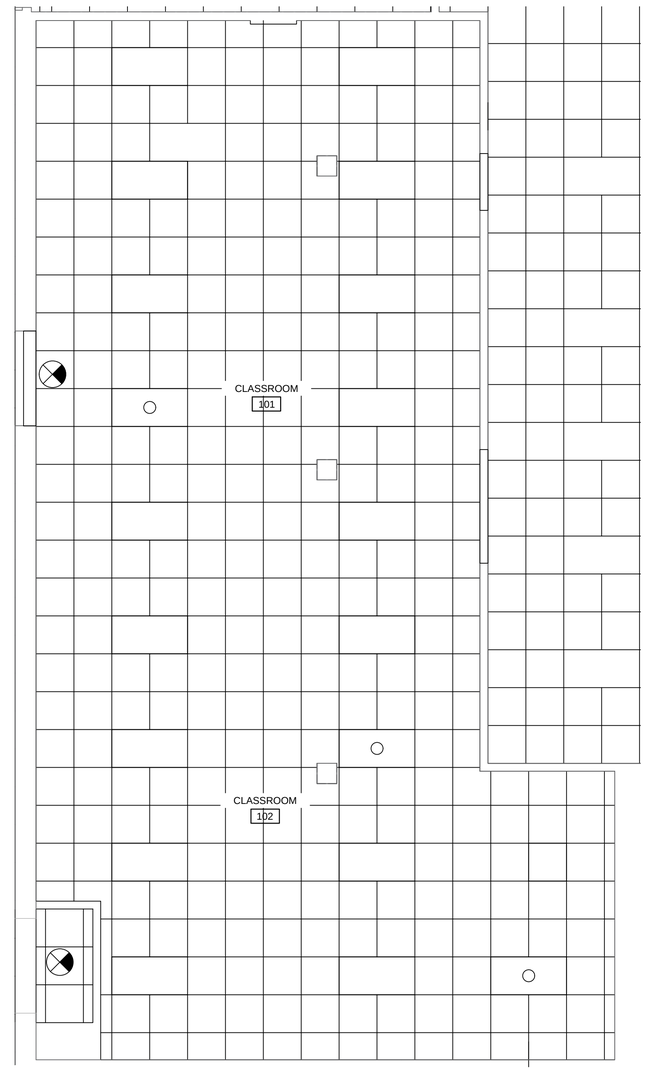
100% DESIGN SUBMITTAL



1 DEMOLITION PLAN - AREA A - RCP
SCALE : 1/4" = 1'-0"
0 2' 4' 8'
NORTH



2 DEMOLITION PLAN - AREA D - RCP
SCALE : 1/4" = 1'-0"
0 2' 4' 8'
NORTH



3 DEMOLITION PLAN - AREA C - RCP
SCALE : 1/4" = 1'-0"
0 2' 4' 8'
NORTH

GENERAL ELECTRICAL SHEET NOTES

1. ALL EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS IS BASED ON AVAILABLE INFORMATION PROVIDED BY GOVERNMENT DRAWINGS, OR OBTAINED THROUGH FIELD OBSERVATIONS AS-BUILT. NOT ALL EXISTING CONSTRUCTION IS SHOWN FOR CLARITY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO BIDDING AND BASE THEIR BID ON MODIFYING THE EXISTING CONDITIONS SHOWN AS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE GOVERNMENT PRIOR TO ANY DEMOLITION OR NEW WORK. ALL WORK AND SHUT-DOWNS MUST BE COORDINATED WITH THE GOVERNMENT CONTRACTING OFFICER AND BUILDING PERSONNEL BEFORE STARTING CONSTRUCTION ACTIVITIES
3. CONTRACTOR SHALL VERIFY THAT ALL LIGHTS OUTSIDE DEMOLITION SCOPE CONTINUE TO WORK DURING CONSTRUCTION. PROVIDE NEW LIGHT SWITCHES AND POWER AS NEEDED
4. EXISTING FIRE ALARM DEVICES TO REMAIN. SEE SHEET FA-101 AND FA-102 FOR FIRE ALARM PLANS

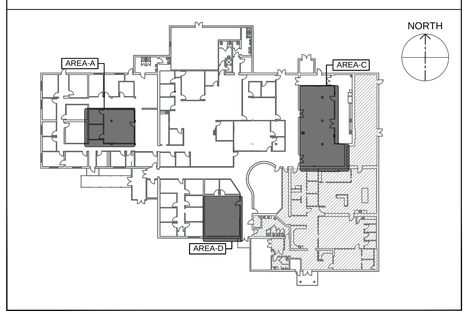
ELECTRICAL KEYNOTES

1. REMOVE LIGHT FIXTURES
2. REMOVE LIGHT SWITCHES OCCUPANCY SENSORS, CONDUITS, AND MOUNTED HARDWARE IN IT'S ENTIRETY TO INSTALL ALL HANGER AND SUBSTRUCTURE.

LEGEND

- EXISTING 2X4 LIGHT FIXTURE TO BE REMOVED
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EXIT SIGN
- EXISTING CEILING GRID TO BE REMAIN

KEYPLAN



81ST TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
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DESIGNED BY: H. SANTIAGO
DRAWN BY: P. THOMAS
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SUBMITTED BY:
SIZE: ANSI-D

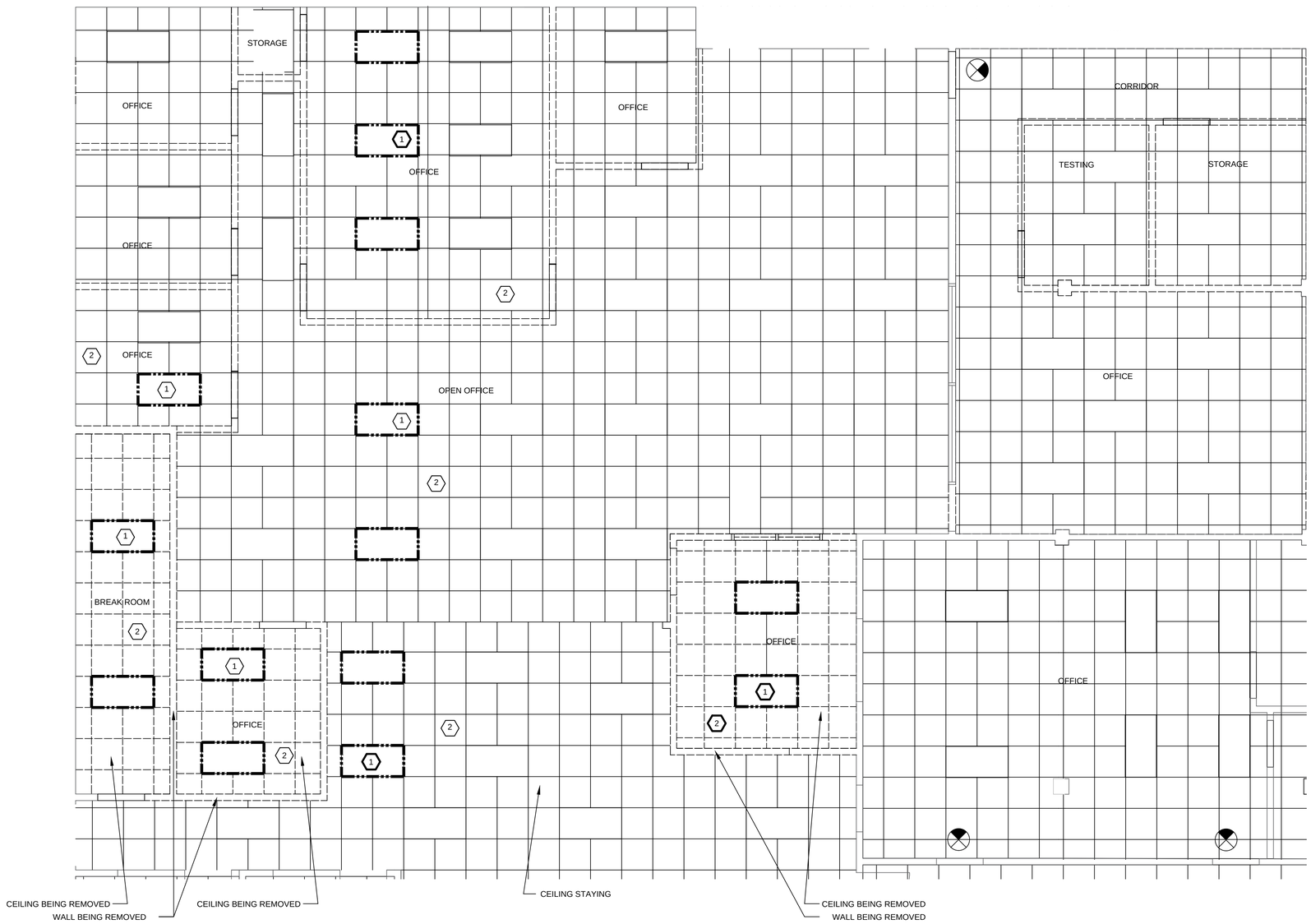
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

DEMOLITION PLAN - AREAS A,C,D
REFLECTED CEILING PLAN

SHEET ID
E-403

100% DESIGN SUBMITTAL



1 DEMOLITION PLAN - AREA B - RCP
SCALE : 1/4" = 1'-0"

0 2' 4' 8'

NORTH

GENERAL ELECTRICAL SHEET NOTES

1. ALL EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS IS BASED ON AVAILABLE INFORMATION PROVIDED BY GOVERNMENT DRAWINGS, OR OBTAINED THROUGH FIELD OBSERVATIONS AS-BUILT. NOT ALL EXISTING CONSTRUCTION IS SHOWN FOR CLARITY. THE CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO BIDDING AND BASE THEIR BID ON MODIFYING THE EXISTING CONDITIONS SHOWN AS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE GOVERNMENT PRIOR TO ANY DEMOLITION OR NEW WORK. ALL WORK AND SHUT-DOWNS MUST BE COORDINATED WITH THE GOVERNMENT CONTRACTING OFFICER AND BUILDING PERSONNEL BEFORE STARTING CONSTRUCTION ACTIVITIES
3. CONTRACTOR SHALL VERIFY THAT ALL LIGHTS OUTSIDE DEMOLITION SCOPE CONTINUE TO WORK DURING CONSTRUCTION. PROVIDE NEW LIGHT SWITCHES AND POWER AS NEEDED
4. EXISTING FIRE ALARM DEVICES TO REMAIN. SEE SHEET FA-101 AND FA-102 FOR FIRE ALARM PLANS

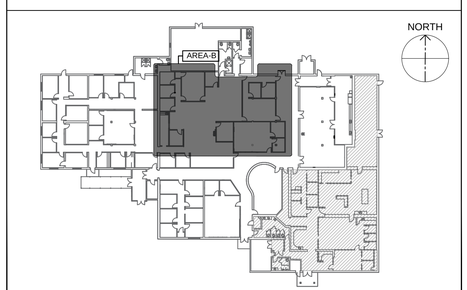
ELECTRICAL KEYNOTES

1. REMOVE LIGHT FIXTURES
2. REMOVE LIGHT SWITCHES OCCUPANCY SENSORS, CONDUITS, AND MOUNTED HARDWARE IN IT'S ENTIRETY TO INSTALL ALL HANGER AND SUBSTRUCTURE.

LEGEND

- EXISTING 2X4 LIGHT FIXTURE TO BE REMOVED
- EXISTING 2X4 LIGHT FIXTURE TO REMAIN
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EXIT SIGN
- EXISTING CEILING GRID TO BE REMAIN

KEYPLAN



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SIZE: ANSI-D

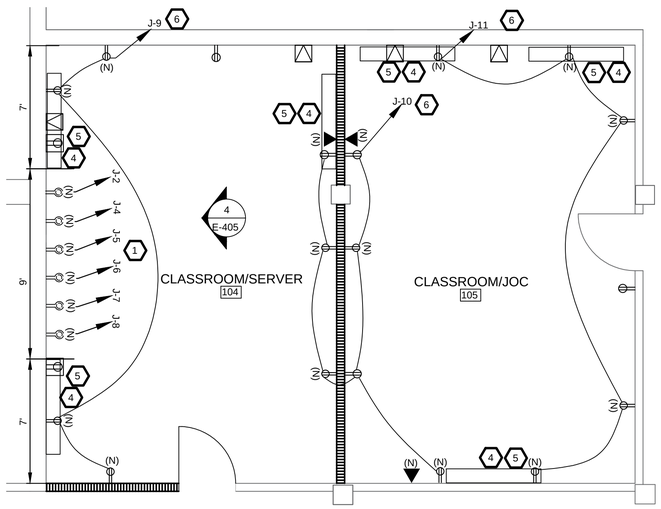
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE B5901
PROJECT NO. MAHG241108

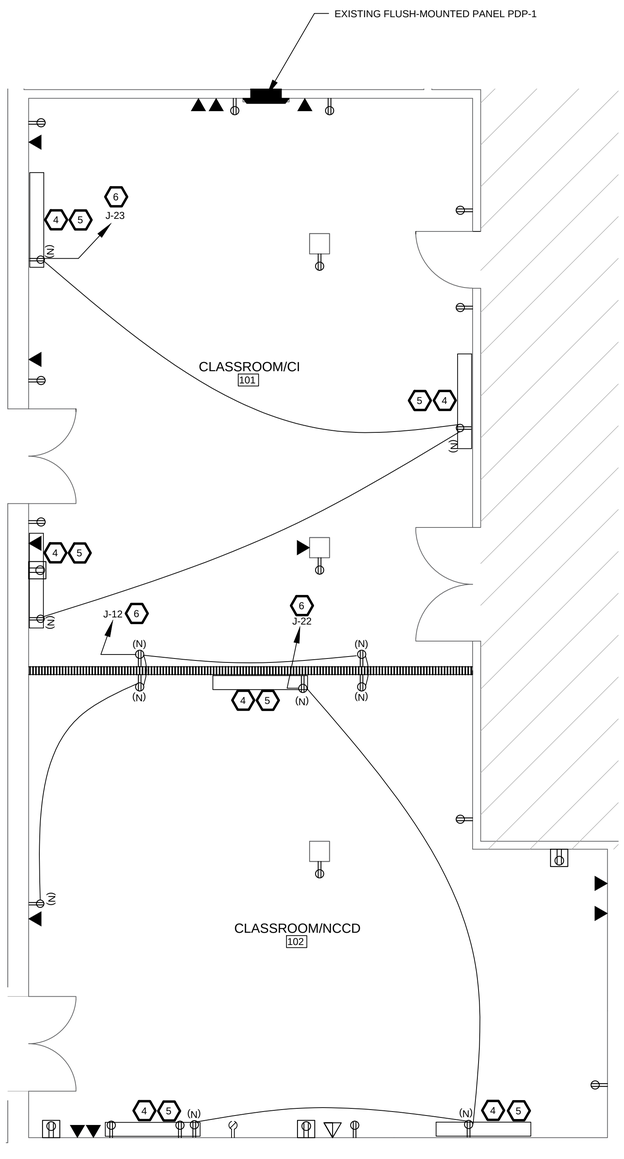
DEMOLITION PLAN - AREA B
REFLECTED CEILING PLAN

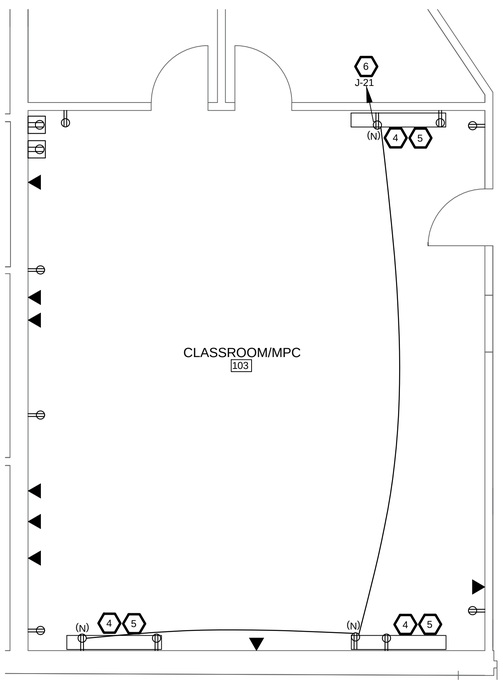
SHEET ID
E-404

100% DESIGN SUBMITTAL



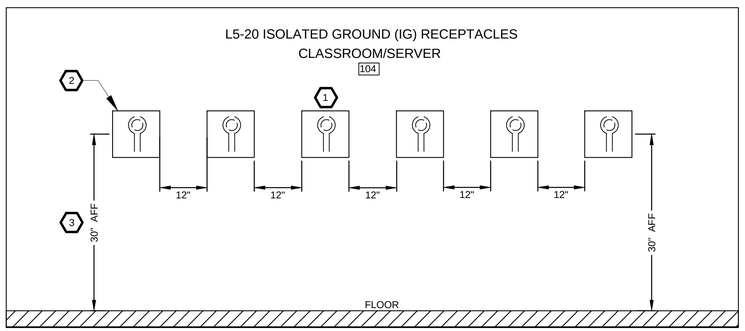
1 NEW WORK - AREA A
SCALE : 1/4" = 1'-0"
0 2' 4' 8'
NORTH





2 NEW WORK - AREA D
SCALE : 1/4" = 1'-0"
0 2' 4' 8'
NORTH

3 NEW WORK - AREA C
SCALE : 1/4" = 1'-0"
0 2' 4' 8'
NORTH



4 ISOLATED GROUND RECEPTACLES - AREA A
SCALE N.T.S.
0 2' 4' 8'
NORTH

GENERAL ELECTRICAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING PANEL SCHEDULES AND CIRCUITS IN SCOPE
2. CONTRACTOR TO MODIFY CIRCUITS AS NEEDED ON AS-FOUND CONDITIONS AND LOAD BALANCING REQUIREMENTS
3. POWER AND COMMUNICATION OUTLET LOCATIONS AND QUANTITY ARE APPROXIMATE. COORDINATE WITH THE GOVERNMENT FOR EXACT LOCATION AND QUANTITY OF COMMUNICATION DROPS
4. CONTRACTOR TO VERIFY CORRECT WIRE SIZES AND CIRCUIT PROTECTION
5. CONTRACTOR TO PROVIDE TWO CAT 6 CABLES TO ALL DATA OUTLETS
6. CONTRACTOR TO COORDINATE COMMS ROOM ACCESS WITH COMMUNICATIONS SQUADRON
7. CAT 6 CABLES TO BE RUN THROUGH THE NEW WALLS IN CONDUIT AND OUT THROUGH AN OUTLET TRANSITION BOX SIMILAR TO POWER
8. CONTRACTOR TO VERIFY THAT ALL DATA OUTLETS AND RECEPTACLES TO REMAIN ARE FUNCTIONAL. CONTRACTOR TO REPLACE IN KIND ANY THAT ARE NOT FUNCTIONAL
9. CONTRACTOR TO PROVIDE NEW PRINTED PANEL SCHEDULES WITH UPDATED CIRCUIT NAMES

ELECTRICAL KEYNOTES

1. L5-20P ISOLATED GROUND (IG) RECEPTACLES SHALL BE DEDICATED CIRCUITS (J-2,4,5,6,7,8) AND MUST HAVE AN ADDITIONAL GROUND WIRE THAT GREEN WITH YELLOW STRIPE AND IS A CONTINUOUS RUN BACK TO THE MAIN PANEL FOR EACH RECEPTACLE
2. 4X4 METAL DEVICE BOX THAT IS GROUNDED TO HOUSE EACH (IG) RECEPTACLE
3. RECEPTACLES SHALL BE INSTALLED AT A HEIGHT OF 30" TO THE CENTER, ABOVE FINISHED FLOOR AND BE SEPARATED BY 12' FROM BOX TO BOX
4. PROVIDE AND INSTALL NEW SUPPORT FOR TV. MOUNTING HEIGHT 5'-7" CENTER ABOVE FINISHED FLOOR. (SEE A-402 FOR ADDITIONAL DETAILS)
5. TV RECEPTACLE SHALL BE INSTALLED AT A MINIMUM HEIGHT OF 60" AFF TO NOT BE VISIBLE WHEN TV IS INSTALLED BUT, SHALL REMAIN ACCESSIBLE
6. 120V CIRCUIT SHALL BE #12 CU THHN WITH GROUND HOUSED IN 3/4" EMT

LEGEND

- NEW CONSTRUCTION
- (N) NEW TO BE INSTALLED
- RECEPTACLE
- DATA OUTLET
- SURFACE-MOUNTED RECEPTACLE
- SURFACE-MOUNTED DATA OUTLET
- HDMI
- L5-20P ISOLATED GROUND (IG) RECEPTACLE
- ELEVATION DETAILS

MARK	DESCRIPTION	DATE

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DRAWN BY: P. THOMAS
CHECKED BY: H. SANTIAGO
SUBMITTED BY:
ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:
SIZE: ANSI-D

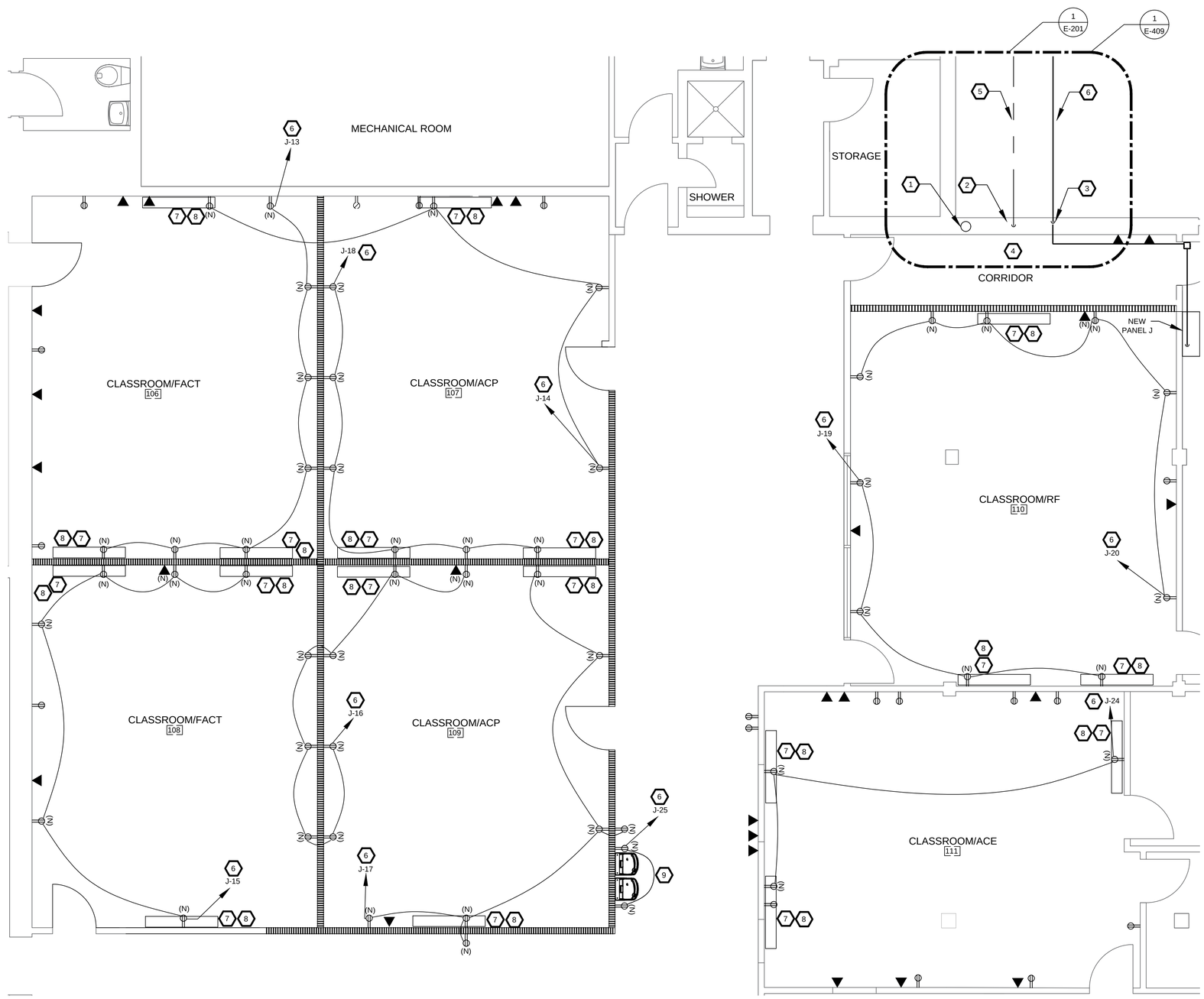
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

NEW WORK - AREAS A,C,D

SHEET ID
E-405

100% DESIGN SUBMITTAL



1 NEW WORK - AREA B
SCALE : 1/4" = 1'-0"

0 2' 4' 8'

NORTH

GENERAL ELECTRICAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING PANEL SCHEDULES AND CIRCUITS IN SCOPE
2. CONTRACTOR TO MODIFY CIRCUITS AS NEEDED ON AS-FOUND CONDITIONS AND LOAD BALANCING REQUIREMENTS
3. POWER AND COMMUNICATION OUTLET LOCATIONS AND QUANTITY ARE APPROXIMATE. COORDINATE WITH THE GOVERNMENT FOR EXACT LOCATION AND QUANTITY OF COMMUNICATION DROPS
4. CONTRACTOR TO PROVIDE TWO CAT 6 CABLES TO ALL DATA OUTLETS
5. CONTRACTOR TO COORDINATE COMMS ROOM ACCESS WITH COMMUNICATIONS SQUADRON
6. CAT 6 CABLES TO BE RUN THROUGH THE NEW WALLS IN CONDUIT AND OUT THROUGH AN OUTLET TRANSITION BOX SIMILAR TO POWER
7. CONTRACTOR TO VERIFY THAT ALL DATA OUTLETS AND RECEPTACLES TO REMAIN ARE FUNCTIONAL. CONTRACTOR TO REPLACE IN KIND ANY THAT ARE NOT FUNCTIONAL
8. CONTRACTOR TO PROVIDE NEW PRINTED PANEL SCHEDULES WITH UPDATED CIRCUIT NAMES

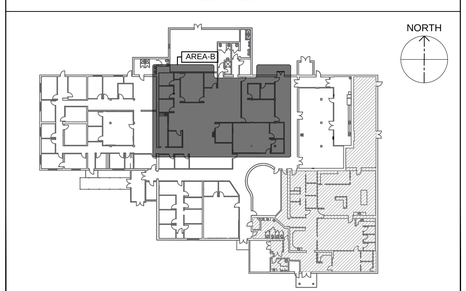
ELECTRICAL KEYNOTES

1. 4" PENETRATION FOR COAXIAL CABLES
2. 3" PENETRATION FOR ETHERNET CABLES
3. 1 1/2" PENETRATION FOR POWER CABLES
4. ABOVE CIELING CONDUIT PENETRATIONS FOR ANTENNA SEE SHEETS E-201 & E-409 FOR MORE DETAILS
5. 3" RIGID GALVANIZED STEEL CONDUIT FOR ETHERNET
6. 1 1/2" RIGID GALVANIZED STEEL CONDUIT FOR POWER
7. PROVIDE AND INSTALL NEW SUPPORT FOR TV. MOUNTING HEIGHT 5'-7" CENTER ABOVE FINISHED FLOOR (SEE A-402 FOR ADDITIONAL DETAILS)
8. TV RECEPTACLE SHALL BE INSTALLED AT A MINIMUM HEIGHT OF 60" AFF TO NOT BE VISIBLE WHEN TV IS INSTALLED BUT, SHALL REMAIN ACCESSIBLE
9. ELECTRIC DRINKING FOUNTAIN RECEPTACLES MUST BE GFCI PROTECTED AND INSTALLED AT 18"AFF UNO.

LEGEND

	NEW CONSTRUCTION
	RECEPTACLE
	DATA OUTLET
	SURFACE-MOUNTED RECEPTACLE
	TWIST LOCK RECEPTACLE
(N)	NEW TO BE INSTALLED

KEYPLAN



81ST TRAINING WING

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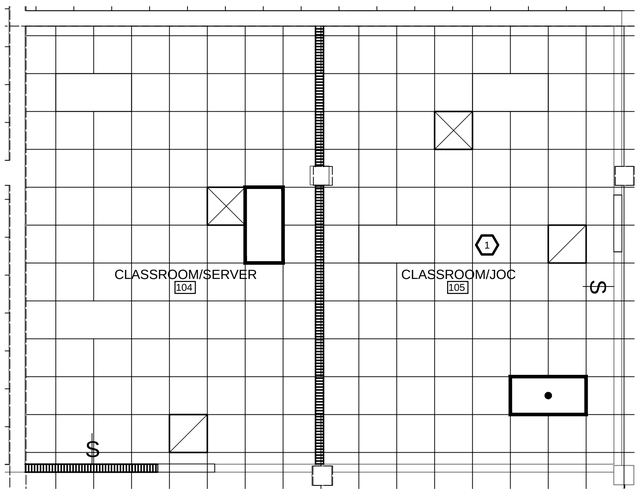
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.B5901
PROJECT NO. MAHG241108

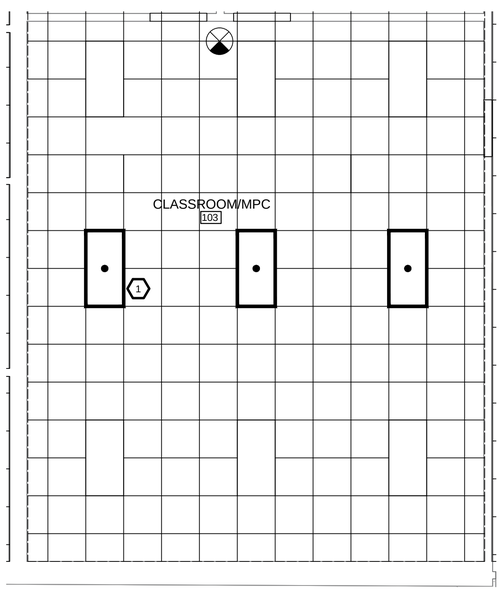
NEW WORK - AREA B

SHEET ID
E-406

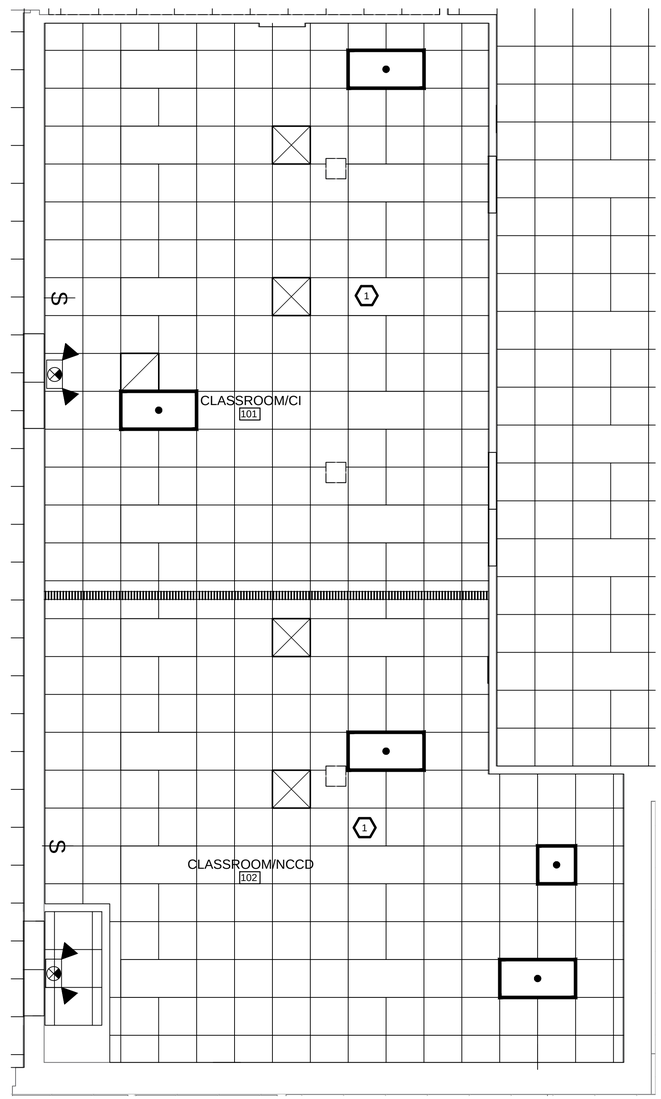
100% DESIGN SUBMITTAL



1 NEW WORK - AREA A - RCP
SCALE : 1/4" = 1'-0"
0 2' 4' 8'
NORTH



2 NEW WORK - AREA D - RCP
SCALE : 1/4" = 1'-0"
0 2' 4' 8'
NORTH



3 NEW WORK - AREA C - RCP
SCALE : 1/4" = 1'-0"
0 2' 4' 8'
NORTH

GENERAL ELECTRICAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL CIRCUITS IN SCOPE
2. LIGHTING FIXTURE LAYOUT FOR ILLUSTRATION PURPOSES ONLY
3. CONTRACTOR TO MODIFY CIRCUITS AS NEEDED ON AS-FOUND CONDITIONS AND LOAD BALANCING REQUIREMENTS
4. CONTRACTOR TO COORDINATE LUMINAIRE LOCATIONS WITH THE MECHANICAL DUCTS, PIPING, AND EQUIPMENT TO BEST ILLUMINATE THE ROOM, MINIMIZE SHADOWS, AND MEET IES STANDARDS
5. LIGHT SWITCHES SHALL HAVE SCREWLESS FACEPLATE AND BE ALCON LIGHTING MODEL 2100 LIGHT SWITCH OR APPROVED EQUAL

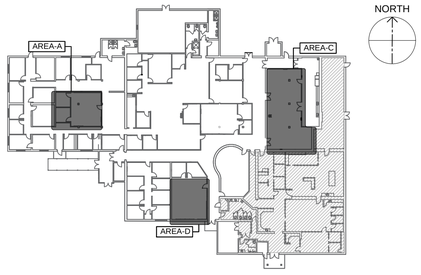
ELECTRICAL KEYNOTES

1 CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUIT, EXTEND AS NECESSARY.

LEGEND

- EXISTING WALL
- NEW WALL
- EXISTING 2' X 2' LIGHT FIXTURE LED TUBES/BALLAST TO BE REPLACED BY CONTRACTOR
- 2' X 4' LIGHT FIXTURE RELOCATED
- EXISTING 2' X 4' LIGHT FIXTURE LED TUBES/BALLAST TO BE REPLACED BY CONTRACTOR
- 2' X 4' EXISTING LIGHT FIXTURE TO REMAIN
- SWITCH
- CEILING / WALL MOUNTED EXIT SIGN / EMERGENCY LIGHT COMBO
- EXIT SIGN

KEYPLAN



81ST TRAINING WING

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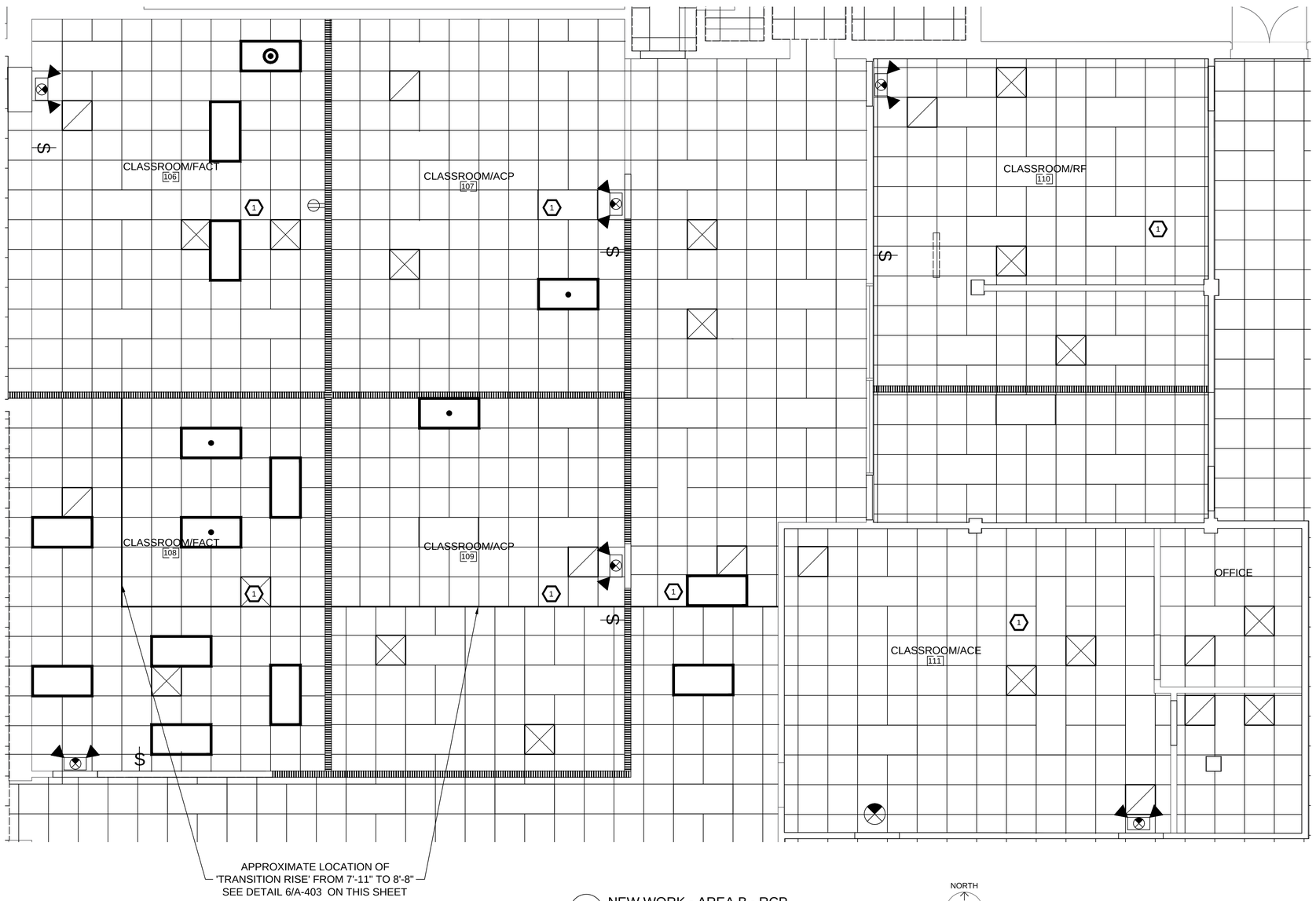
KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.B5901
PROJECT NO. MAHG241108

NEW WORK - AREAS A,C,D
REFLECTED CEILING PLAN

SHEET ID
E-407

100% DESIGN SUBMITTAL



1 NEW WORK - AREA B - RCP
SCALE : 1/4" = 1'-0"

0 2' 4' 8'

NORTH

GENERAL ELECTRICAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL CIRCUITS IN SCOPE
2. LIGHTING FIXTURE LAYOUT FOR ILLUSTRATION AND BID PURPOSES ONLY
3. CONTRACTOR TO MODIFY CIRCUITS AS NEEDED ON AS-FOUND CONDITIONS AND LOAD BALANCING REQUIREMENTS
4. CONTRACTOR TO COORDINATE LUMINAIRE LOCATIONS WITH THE MECHANICAL DUCTS, PIPING, AND EQUIPMENT TO BEST ILLUMINATE THE ROOM, MINIMIZE SHADOWS, AND MEET IES STANDARDS
5. LIGHT SWITCHES SHALL HAVE SCREWLESS FACEPLATE AND BE ALCON LIGHTING MODEL 2100 LIGHT SWITCH OR APPROVED EQUAL

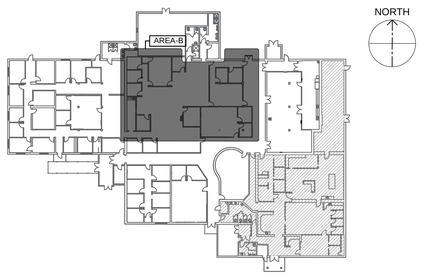
ELECTRICAL KEYNOTES

1 CONNECT NEW LIGHTING CIRCUIT TO EXISTING LIGHTING CIRCUIT, EXTEND AS NECESSARY.

LEGEND

- EXISTING WALL
- NEW WALL
- 2' X 4' LIGHT FIXTURE RELOCATED
- EXISTING 2' X 4' LIGHT FIXTURE LED TUBES/BALLAST TO BE REPLACED BY CONTRACTOR
- 2' X 4' EXISTING LIGHT FIXTURE TO REMAIN
- CEILING / WALL MOUNTED EXIT SIGN / EMERGENCY LIGHT COMBO
- EXIT SIGN
- SWITCH
- RECEPTACLE

KEYPLAN



81st TRAINING WING

MARK	DESCRIPTION	DATE

ISSUE DATE: MARCH, 2026
SOLICITATION NO.:
CONTRACT NO.:

DESIGNED BY: H. SANTIAGO
DRAWN BY: P. THOMAS
CHECKED BY: H. SANTIAGO
SUBMITTED BY:
SIZE: ANSI-D

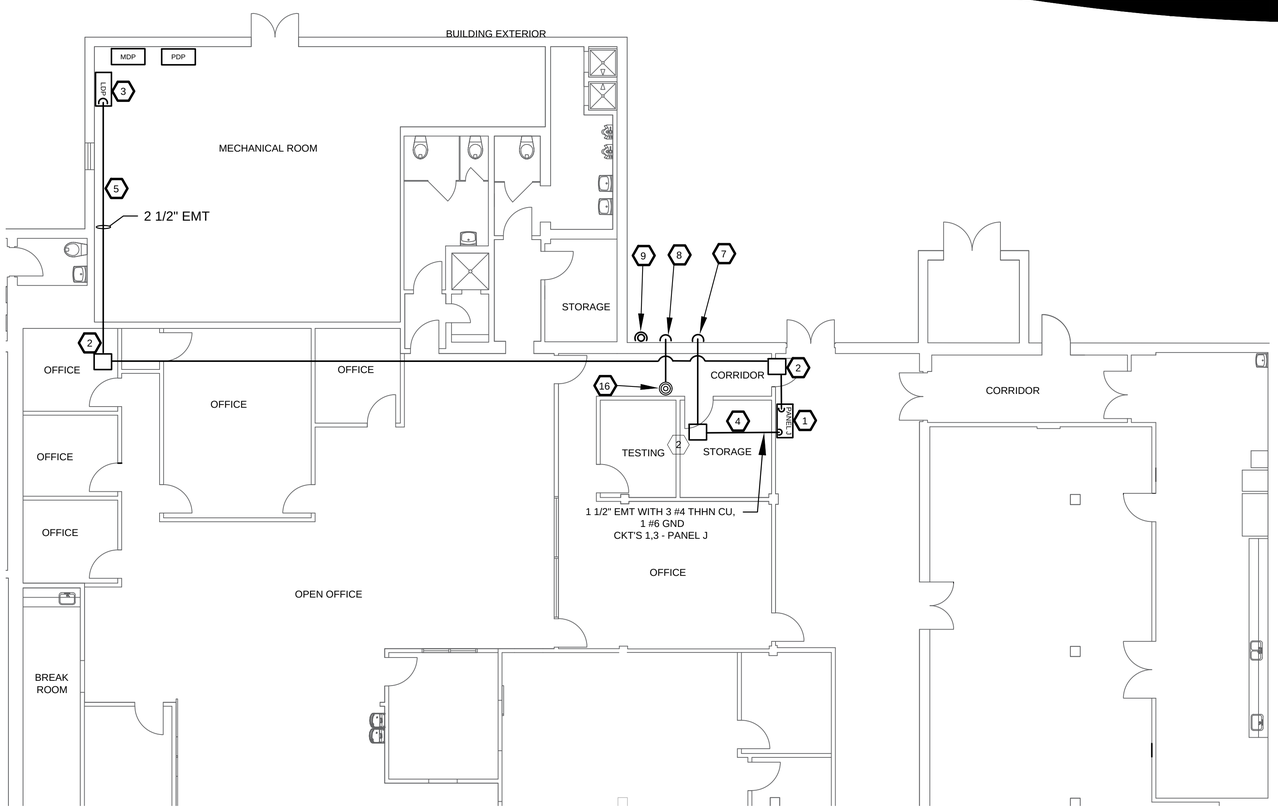
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,859901
PROJECT NO. MAHG241108

NEW WORK - AREA B REFLECTED CEILING PLAN

SHEET ID
E-408

100% DESIGN SUBMITTAL



1 POWER & ETHERNET CONDUIT DETAIL
SCALE :N.T.S.

NORTH

GENERAL ELECTRICAL SHEET NOTES

1. MAINTAIN MINIMUM 18" SEPARATION BETWEEN ANTENNA SIGNAL AND POWER WIRING
2. SEE SHEET E-201 FOR ADDITIONAL INSTALLATION DETAILS

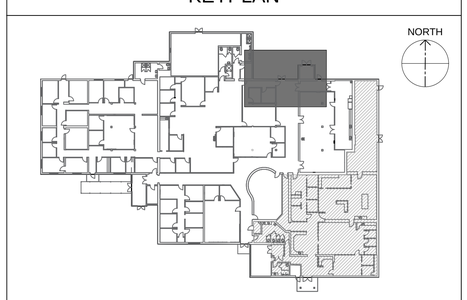
ELECTRICAL KEYNOTES

1. PANEL (J) 3 PHASE 4 WIRE, 120V/208V 225A MAIN BREAKER SHALL BE FLUSH MOUNTED
2. PULL BOX 15 X 15 X 4
3. PANEL (LDP 400A) POSITION 6, 150A (SPARE) BREAKER, 3P, 22KAIC, 208V SHALL SUPPLY POWER FEED TO PANEL (J)
4. 1 1/2" CONDUIT WITH 3 #4 CU THHN W/ 1 #8 GROUND
5. 2 1/2" CONDUIT (EMT) FOR 4 4/0 THHN CU W/ 1 #2 GROUND
6. ANTENNA
7. 1 1/2" PENETRATION, POWER EXITS BUILDING
8. 3" PENETRATION ETHERNET EXITS THE BUILDING
9. 4" PENETRATION FOR COAXIAL CABLES, CABLES
10. POWER PLUG CABLES TO BE PROVIDED AND INSTALLED BY THE GOVERNMENT
11. ETHERNET CABLE BUNDLE (PROVIDED & INSTALLED BY GOVERNMENT)

LEGEND

X / XXX	ELEVATION
	GRASS
	ASPHALT ROAD

KEYPLAN



81ST TRAINING WING

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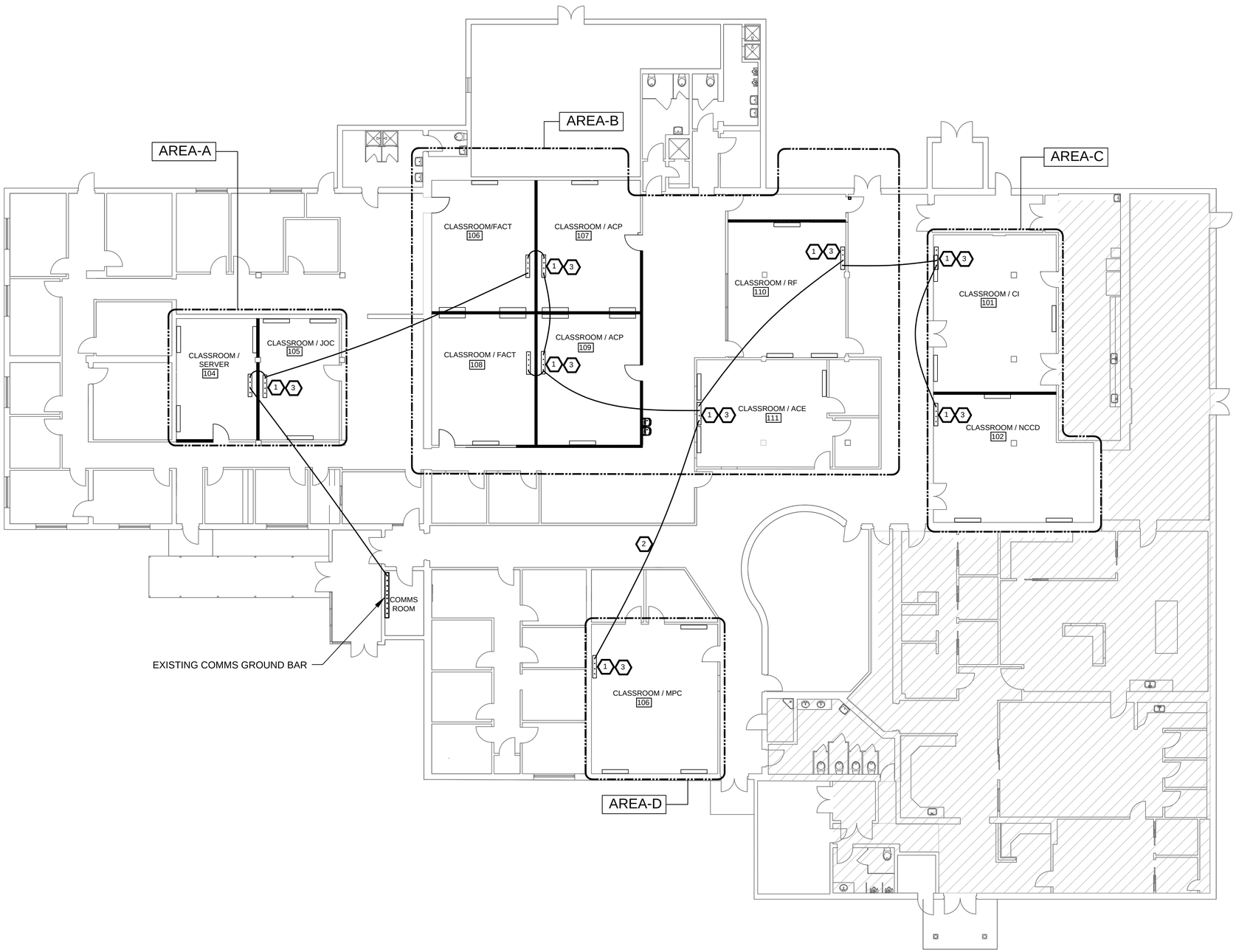
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

ANTENNA CONDUIT INSTALLATION DETAILS

SHEET ID
E-409

100% DESIGN SUBMITTAL



1 GND BARS CLASSROOMS
SCALE : N.T.S.

GENERAL ELECTRICAL SHEET NOTES

1. THIS DRAWING IS FOR REFERENCE ONLY AND IS NOT FOR CONSTRUCTION
2. DO NOT BOND INSULATED GROUND WIRE TO METAL BOXES OR CONDUIT
3. CONTRACTOR TO COORDINATE WITH COMMUNICATION SQUADRON FOR COMMS ROOM ACCESS

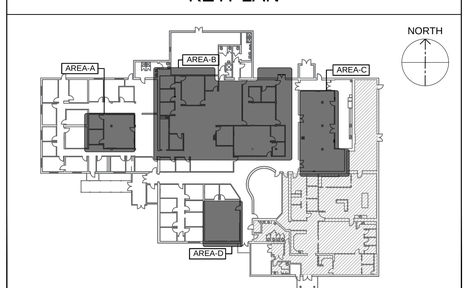
ELECTRICAL KEYNOTES

1. COPPER GROUND BAR 4' X 8" X 1/4"
2. GROUND WIRE TO BE #6 COPPER INSULATED RAN IN 1/2" EMT
3. CONTRACTOR TO PROVIDE AND INSTALL 4"X8" GROUND BUSBAR

LEGEND

- # 6 CU THHN INSULATED CABLE FOR GROUND
- COPPER GROUND BAR 4" X 8" X 1/4"
- NO WORK IN THIS AREA

KEYPLAN



81st TRAINING WING

MARK	DESCRIPTION	DATE

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81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

GROUND BARS FOR CLASSROOMS

SHEET ID
E-410

100% DESIGN SUBMITTAL

PANEL A

LOCATION: Executive Office south of Room 24
FED FROM:
MOUNTING: FLUSH
ACCESSORIES:

VOLTAGE: 208/120V - 3PH, 4W
MAIN BREAKER: MLO
BUS AMPACITY: 100A
LUGS: 100A
AIC: 22K

LOAD DESCRIPTION	NOTE	LOAD (VA)	CB	CKT.	PH	CKT.	CB	LOAD (VA)	NOTE	DESCRIPTION
MECH ROOM				1	A	2				LIGHT MWR 1
MECH ROOM				3	B	4				LIGHT MWR 1
MECH ROOM				5	C	6				LIGHT MWR 2
WOMAN BATHROOM				7	A	8				RECEPTS MWR 2
LTG 4A, 5A				9	B	10				RECEPTS MWR 7
LTG 2A, 3A, CANOPY				11	C	12				RECEPTS MWR 1
LTG MWR 3				13	A	14				POWER POLE
RECEPTS MWR 3				15	B	16				RECEPTS MWR 1
LTG 3A, 4A				17	C	18				VAV POWER
LTG 2A, 5A				19	A	20				RECEPTS MWR 3
RECEPTS				21	B	22				SECURITY ALARM
RECEPTS				23	C	24				
RECEPTS				25	A	26				
SPACE				27	B	28				
SPACE				29	C	30				

PANEL H

LOCATION: Corridor outside ONC office
FED FROM:
MOUNTING: FLUSH
ACCESSORIES:

VOLTAGE: 208/120V - 3PH, 4W
MAIN BREAKER: ML
BUS AMPACITY: 225A
LUGS: 225A
AIC: 22K

LOAD DESCRIPTION	NOTE	LOAD (VA)	CB	CKT.	PH	CKT.	CB	LOAD (VA)	NOTE	LOAD DESCRIPTION
LTG. 2B, 3B, 4B				1	A	2				BATH ROOM LTG.
LTG. 1B				3	B	4				LTG 5B
LTG. HALL				5	C	6				LTG 5B
OUTSIDE LTG.				7	A	8				LTG 1E, 2E, 3E
RECEPTACLE 3B				9	B	10				LTG 1E, 4E, 5E
RECEPTACLE 4B				11	C	12				LTG 1E
RECEPTACLE 1B				13	A	14				RECEPT 1E
RECEPTACLE 10B				15	B	16				RECEPT 1E, 4E
RECEPTACLE 2B				17	C	18				VAV POWER 1E
RECEPTACLE 1E COLUMN				19	A	20				RECEPT 1E, 3E
EXHOUT FAN				21	B	22				WEATHER FAN
VAV POWER				23	C	24				WEATHER PUMP
RECEPTS 5B				25	A	26				RECEPT 5B
RECEPTS 5B				27	B	28				RECEPT BATH ROOMS
RECEPTS 1E				29	C	30				RECEPT 5B
OPIC RECET. A7				31	A	32				RECEPT B-08 HYDRO
RM. C2 (RECEPTS)				33	B	34				RM C-2 (220 OUTLET)
RM. C2 (RECEPTS)				35	C	36				RM C-2 (220 OUTLET)
DRY THERAPY POWER POLE				37	A	38				ICE MACHINE B5
DRY THERAPY POWER POLE				39	B	40				ICE MACHINE B5
SPACE				41	C	42				SPACE

PANEL PDP-1

LOCATION: Classrooms south of corridor E10
FED FROM:
MOUNTING: FLUSH
ACCESSORIES:

VOLTAGE: 208/120V - 3PH, 4W
MAIN BREAKER: MLO
BUS AMPACITY: 225A
LUGS: 225A
AIC: 22K

LOAD DESCRIPTION	NOTE	LOAD (VA)	CB	CKT.	PH	CKT.	CB	LOAD (VA)	NOTE	LOAD DESCRIPTION
RECEO CHIROPRACTIC				1	A	2				RECEPTACLES OT FLUTO
RECEOPTACLES E03				3	B	4				RECEPTACLES RM E03
RECEOPTACLES E03				5	C	6				RECEPTACLES RM E03
COMPRESSOR 3 PH				7	A	8				BAND SAW
COMPRESSOR 3 PH				9	B	10				BAND SAW
COMPRESSOR 3 PH				11	C	12				SANDER
SANDER				13	A	14				SANDER
SANDER				15	B	16				REFRIGERATOR
RECEPTACLES				17	C	18				RECEPTACLES
HOT WATER HEATER				19	A	20				RECEPTACLES
RECEPTACLES RM E03				21	B	22				BAND SAW
RECEPTACLES RM E03				23	C	24				BAND SAW
RECEPTACLES RM E03				25	A	26				BAND SAW
SPACE				27	B	28				SPACE
SPACE				29	C	30				SPACE

NEW PANEL J

LOCATION: Corridor East of Class room 3
FED FROM: Panel LDP-150A Breaker
MOUNTING: FLUSH
ACCESSORIES:

VOLTAGE: 208/120V - 3PH, 4W
MAIN BREAKER: 225A
BUS AMPACITY: 225A
LUGS:
AIC: 22KAIC

LOAD DESCRIPTION	NOTE	LOAD (VA)	CB	CKT.	PH	CKT.	CB	LOAD (VA)	NOTE	LOAD DESCRIPTION
Sub panel Antennea Outdoor		1440	60	1	A	2	20	960		Receptacle 3-L520-Isolated Ground -Server C/11
Sub panel Antennea Outdoor		1440		3	B	4	20	960		Receptacle 4-L520-Isolated Ground -Server C/11
Receptacle 1-L520-Isolated Ground -Server C/11		960	20	5	C	6	20	960		Receptacle 5-L520-Isolated Ground -Server C/11
Receptacle 2-L520-Isolated Ground -Server C/11		960	20	7	A	8	20	960		Receptacle 6-L520-Isolated Ground -Server C/11
Receptacles and TV Class rooms 11		900	20	9	B	10	20	900		Receptacles Class room 10, 11
Receptacles and TV Class room 10		900	20	11	C	12	20	1080		Receptacles and TV Class room 1, 2
Receptacles and TV Class room 8		900	20	13	A	14	20	1260		Receptacles Class room 6
Receptacles and TV Class room 9		1080	20	15	B	16	20	1080		Receptacles Class room 7
Receptacles and TV Class room 7		1080	20	17	C	18	20	1080		Receptacles and TVClass room 6, 7
Receptacles and TV Class room 3		1080	20	19	A	20	20	900		Receptacles and TV Class room 3
Receptacles and TV Classroom 103		1080	20	21	B	22	20	1080		Receptacles and TV Classroom 102
Receptacles and TV Classroom 101		1080	20	23	C	24	20	1080		Receptacles and TV Classroom (ACE)
Water Fountain Receptacles (GFCI)		740	20	25	A	26	20			Spare
Spare			20	27	B	28	20			Spare
Spare			20	29	C	30	20			Spare
space				31	A	32				space
space				33	B	34				space
space				35	C	36				space
space				37	A	38				space
space				39	B	40				space
		13640		41	C	42		12300		

SUB PANEL J

LOCATION: Outdoor Antenna
FED FROM: New Panel J
MOUNTING: FLOOR STANDING
ACCESSORIES:

VOLTAGE: 240/120V - 1PH, 3W
MAIN BREAKER: MLO
BUS AMPACITY: 60A
LUGS: 60A
AIC: 22KAIC

LOAD DESCRIPTION	NOTE	LOAD (VA)	CB	CKT.	PH	CKT.	CB	LOAD (VA)	NOTE	LOAD DESCRIPTION
Duplex receptacles 1 and 2 weather resistant		720	20	1	A	2	20	720		Duplex receptacles 3 and 4 weather resistant
Duplex receptacles 5 and 6 weather resistant		720	20	3	B	4	20	720		Duplex receptacles 7 and 8 weather resistant
Spare			20	5	A	6	20			Spare

GENERAL ELECTRICAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL CIRCUITS SPECIFIED ON THE DRAWINGS OR CIRCUITS IN OR TO BE AFFECTED BY CONSTRUCTION IN THE AREA OF SCOPE
2. CONTRACTOR TO VERIFY ALL EXISTING PANEL SCHEDULES
3. CONTRACTOR TO MODIFY CIRCUITS AS NEEDED ON AS-FOUND CONDITIONS AND LOAD BALANCING REQUIREMENTS
4. CONTRACTOR TO PROVIDE A NEW PRINTED PANEL SCHEDULE SHEET FOR ALL PANELS AFFECTED BY THIS PROJECT
5. CONTRACTOR TO REUSE EXISTING LIGHTING CIRCUITS FOR NEW LIGHTS
6. CONTRACTOR TO PROVIDE NEW BOLT-ON BREAKERS, CONDUIT, AND CONDUCTORS TO RECONFIGURE POWER AND LIGHTING CIRCUITS TO MINIMIZE DOWNTIME OF OCCUPANTS OUTSIDE OF THE AREA OF SCOPE

LEGEND

CIRCUITS EFFECTED BY SCOPE OF WORK

1 EXISTING PANEL SCHEDULES
SCALE :NONE

MARK	DESCRIPTION	DATE

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DESIGNED BY: H. SANTIAGO
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SIZE: ANSI-D

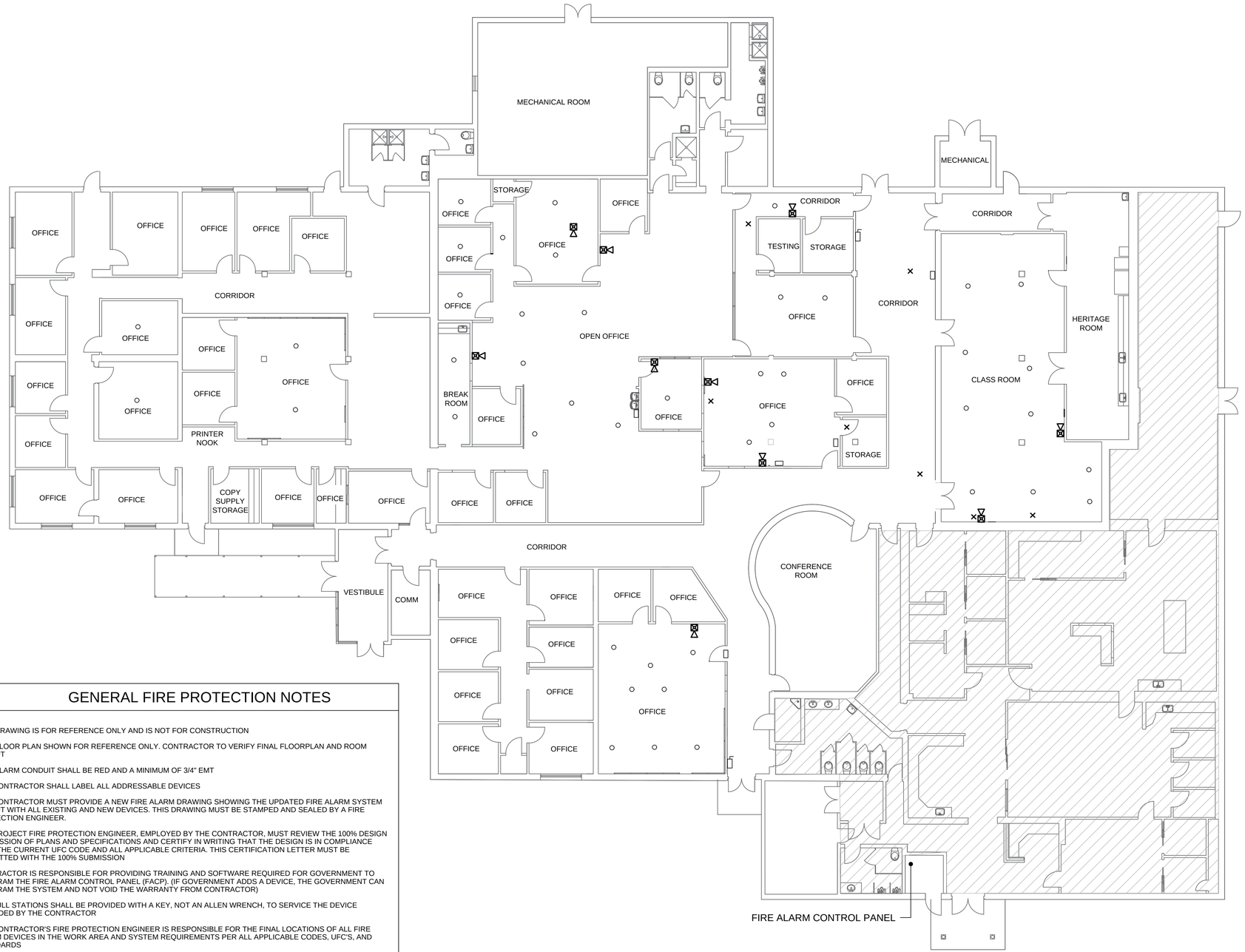
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

PANEL SCHEDULES

SHEET ID
E-601

100% DESIGN SUBMITTAL



GENERAL FIRE PROTECTION SHEET NOTES

1. EXISTING FIRE ALARM DEVICES SHOWN FOR REFERENCE ONLY, VERIFY LOCATIONS AND QUANTITY OF ALL FIRE ALARM DEVICES AND SYSTEMS.
2. ALL EXISTING FIRE ALARM DEVICES SHALL REMAIN ACTIVE. UNDER NO CIRCUMSTANCES ARE THE DEVICES TO BE DISCONNECTED FROM SERVICE. SHOULD DEVICE BE DISCONNECTED, IMMEDIATELY CONTACT AND ADVISE THE BASE FIRE DEPARTMENT AND CONTRACTING OFFICER.
3. IF DEVICE REMOVAL IS REQUIRED FOR CEILING DEMOLITION OR CONSTRUCTION, REMOVE ANY STROBE, ALARM, OR OTHER DEVICE FROM THE CEILING GRID AND CAREFULLY SECURE THE DEVICE TO THE STRUCTURE ABOVE. ONCE THE CEILING SYSTEM IS BACK IN PLACE, REINSTALL ALL DEVICES IN THE SAME LOCATIONS, UNLESS NOTED OTHERWISE. COORDINATE NEW LOCATIONS WITH THE NEW FLOOR PLAN AS NEEDED; SEE SHEET FA-102 FOR NEW FIRE ALARM GUIDELINES.

LEGEND

- NO WORK IN THIS AREA
- COMBINATION HORN STROBE
- SPRINKLER HEAD
- LIGHT STROBE
- MANUAL PULL STATION
- EXIT SIGN

GENERAL FIRE PROTECTION NOTES

1. THIS DRAWING IS FOR REFERENCE ONLY AND IS NOT FOR CONSTRUCTION
2. NEW FLOOR PLAN SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY FINAL FLOORPLAN AND ROOM LAYOUT
3. FIRE ALARM CONDUIT SHALL BE RED AND A MINIMUM OF 3/4" EMT
4. THE CONTRACTOR SHALL LABEL ALL ADDRESSABLE DEVICES
5. THE CONTRACTOR MUST PROVIDE A NEW FIRE ALARM DRAWING SHOWING THE UPDATED FIRE ALARM SYSTEM LAYOUT WITH ALL EXISTING AND NEW DEVICES. THIS DRAWING MUST BE STAMPED AND SEALED BY A FIRE PROTECTION ENGINEER.
6. THE PROJECT FIRE PROTECTION ENGINEER, EMPLOYED BY THE CONTRACTOR, MUST REVIEW THE 100% DESIGN SUBMISSION OF PLANS AND SPECIFICATIONS AND CERTIFY IN WRITING THAT THE DESIGN IS IN COMPLIANCE WITH THE CURRENT UFC CODE AND ALL APPLICABLE CRITERIA. THIS CERTIFICATION LETTER MUST BE SUBMITTED WITH THE 100% SUBMISSION
7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAINING AND SOFTWARE REQUIRED FOR GOVERNMENT TO PROGRAM THE FIRE ALARM CONTROL PANEL (FACP). (IF GOVERNMENT ADDS A DEVICE, THE GOVERNMENT CAN PROGRAM THE SYSTEM AND NOT VOID THE WARRANTY FROM CONTRACTOR)
8. ALL PULL STATIONS SHALL BE PROVIDED WITH A KEY, NOT AN ALLEN WRENCH, TO SERVICE THE DEVICE PROVIDED BY THE CONTRACTOR
9. THE CONTRACTOR'S FIRE PROTECTION ENGINEER IS RESPONSIBLE FOR THE FINAL LOCATIONS OF ALL FIRE ALARM DEVICES IN THE WORK AREA AND SYSTEM REQUIREMENTS PER ALL APPLICABLE CODES, UFC'S, AND STANDARDS
10. THE CONTRACTOR'S FIRE PROTECTION ENGINEER IS RESPONSIBLE FOR THE RELOCATION AND/OR EXPANSION OF THE EXISTING FIRE ALARM SYSTEM IN THE WORK AREA TO SERVICE THE NEW FLOORPLAN
11. THE CONTRACTOR SHALL REUSE EXISTING FIRE ALARM SYSTEMS IF ABLE, AND SHALL REPLACE IN KIND OR REMOVE ANY EXISTING FIRE ALARM DEVICES FOUND TO NOT BE IN FUNCTIONING CONDITION
12. CONTRACTOR TO VERIFY EXISTING CONDITIONS OF THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO, SMOKE DETECTORS, STROBES, MASS NOTIFICATION SYSTEM (MNS), FACP'S, TO ENSURE THAT ALL EXISTING SYSTEMS AND DEVICES ARE TAKEN INTO CONSIDERATION WITH THE DESIGN OF THE NEW SYSTEM. CONTRACTOR TO ENSURE THAT ALL NEW WORK ON THE FIRE ALARM SYSTEM IS CODE COMPLIANT AND THAT THE NEW WORK IN IT'S ENTIRETY FUNCTIONS AS A WHOLE WITH THE EXISTING FIRE ALARM SYSTEM
13. CONTRACTOR TO REUSE EXISTING SMOKE DETECTORS THAT ARE STILL FUNCTIONING AND TO PROVIDE AND INSTALL NEW SMOKE DETECTORS AS NEEDED TO MEET THE NEW DESIGN REQUIREMENTS
14. NEW FIRE ALARM DEVICES, EQUIPMENT, AND SYSTEM SHALL MATCH EXISTING FACP'S MANUFACTURER
15. CONTRACTOR TO PROVIDE AND INSTALL NEW EXIT SIGNS IN EMERGENCY EXIT ROUTES
16. CONTRACTOR TO PROVIDE AND INSTALL NEW HORN-STROBES AS NEEDED TO MEET THE NEW DESIGN REQUIREMENTS. NEW HORN-STROBES SHALL MATCH EXISTING HORN-STROBES IN-KIND AND FACP MANUFACTURER

1 EXISTING FLOORPLAN - FIRE ALARM
SCALE : 3/32" = 1'-0"

0 5' 10' 20'

NORTH

81st TRAINING WING

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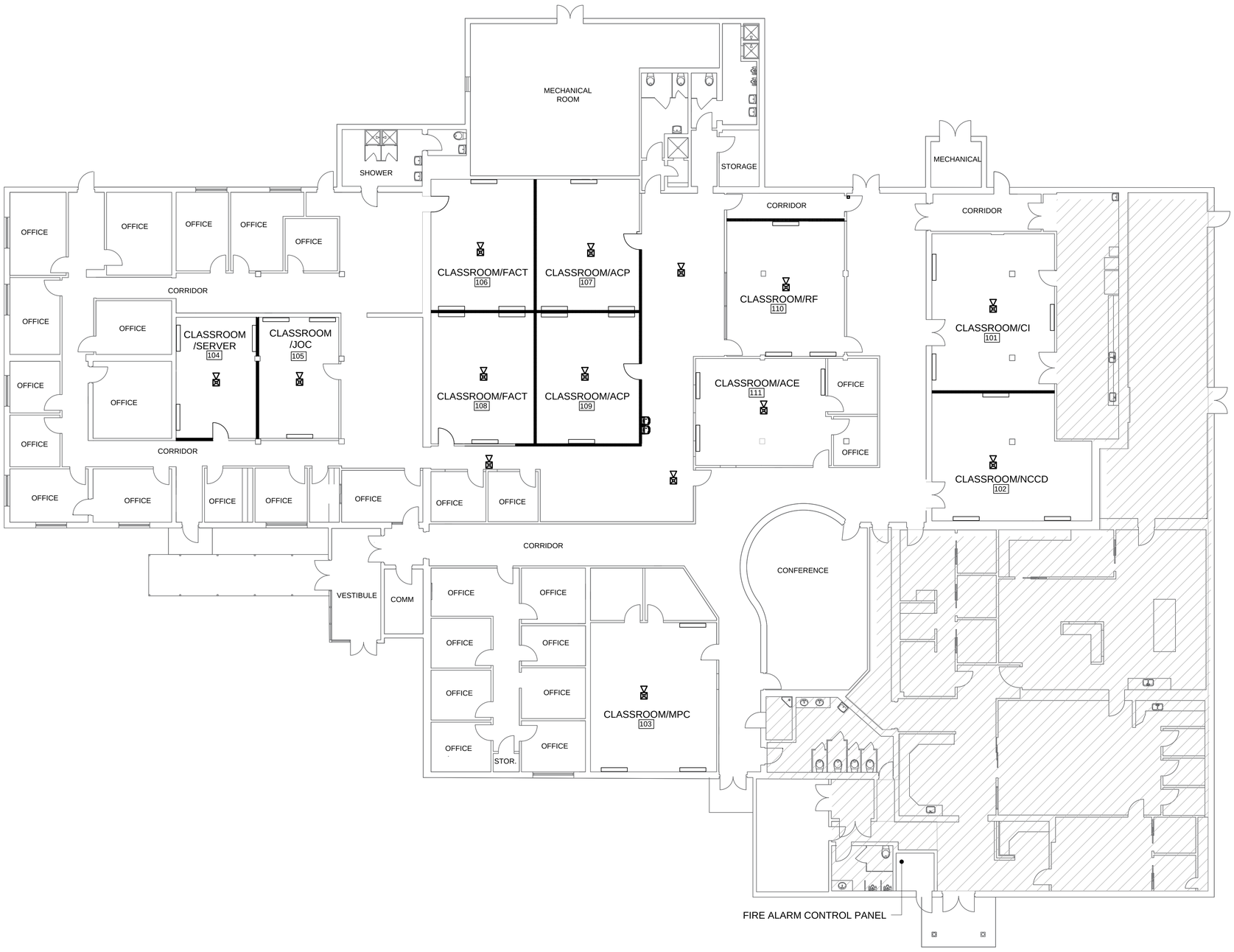
81ST CIVIL ENGINEER SQUADRON
508 L STREET, BLDG 4705
BILOXI, MS 39534

KEESLER AIR FORCE BASE BILOXI, MISSISSIPPI
RENOVATE ARNOLD HALL FOR SWING SPACE.85901
PROJECT NO. MAHG241108

FLOOR PLAN - FIRE ALARM

SHEET ID
FA-101

100% DESIGN SUBMITTAL



1 NEW WORK - FIRE ALARM
SCALE : 3/32" = 1'-0"

0 5' 10' 20'

NORTH

GENERAL FIRE PROTECTION SHEET NOTES

1. THIS DRAWING IS FOR REFERENCE AND BID PURPOSES ONLY AND IS NOT FOR CONSTRUCTION
2. NEW FLOOR PLAN SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY FINAL FLOOR PLAN AND ROOM LAYOUT
3. FIRE ALARM CONDUIT SHALL BE RED AND A MINIMUM OF 3/4" EMT
4. THE CONTRACTOR SHALL LABEL ALL ADDRESSABLE DEVICES
5. THE CONTRACTOR MUST PROVIDE A NEW FIRE ALARM DRAWING SHOWING THE UPDATED FIRE ALARM SYSTEM LAYOUT WITH ALL EXISTING AND NEW DEVICES. THIS DRAWING MUST BE STAMPED AND SEALED BY A FIRE PROTECTION ENGINEER.
6. THE PROJECT FIRE PROTECTION ENGINEER, EMPLOYED BY THE CONTRACTOR, SHALL BE LICENSED IN THE STATE OF MISSISSIPPI. THE ENGINEER MUST REVIEW THE 100% DESIGN SUBMISSION OF PLANS AND SPECIFICATIONS AND CERTIFY IN WRITING THAT THE DESIGN IS IN COMPLIANCE WITH THE CURRENT UFC CODE AND ALL APPLICABLE CRITERIA. THIS CERTIFICATION LETTER MUST BE SUBMITTED WITH THE 100% SUBMISSION
7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAINING AND SOFTWARE REQUIRED FOR GOVERNMENT TO PROGRAM THE FIRE ALARM CONTROL PANEL (FACP). (IF GOVERNMENT ADDS A DEVICE, THE GOVERNMENT CAN PROGRAM THE SYSTEM AND NOT VOID THE WARRANTY FROM CONTRACTOR)
8. ALL PULL STATIONS SHALL BE PROVIDED WITH A KEY, NOT AN ALLEN WRENCH, TO SERVICE THE DEVICE PROVIDED BY THE CONTRACTOR
9. THE CONTRACTOR'S FIRE PROTECTION ENGINEER IS RESPONSIBLE FOR THE FINAL LOCATIONS OF ALL FIRE ALARM DEVICES IN THE WORK AREA AND SYSTEM REQUIREMENTS PER ALL APPLICABLE CODES, UFC'S, AND STANDARDS
10. THE CONTRACTOR'S FIRE PROTECTION ENGINEER IS RESPONSIBLE FOR THE RELOCATION AND/OR EXPANSION OF THE EXISTING FIRE ALARM SYSTEM IN THE WORK AREA TO SERVICE THE NEW FLOOR PLAN
11. THE CONTRACTOR SHALL REUSE EXISTING FIRE ALARM SYSTEMS IF ABLE, AND SHALL REPLACE IN KIND OR REMOVE ANY EXISTING FIRE ALARM DEVICES FOUND TO NOT BE IN FUNCTIONING CONDITION
12. CONTRACTOR TO VERIFY EXISTING CONDITIONS OF THE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO, SMOKE DETECTORS, STROBES, MASS NOTIFICATION SYSTEM (MNS), FACP'S, TO ENSURE THAT ALL EXISTING SYSTEMS AND DEVICES ARE TAKEN INTO CONSIDERATION WITH THE DESIGN OF THE NEW SYSTEM. CONTRACTOR TO ENSURE THAT ALL NEW WORK ON THE FIRE ALARM SYSTEM IS CODE COMPLIANT AND THAT THE NEW WORK IN IT'S ENTIRETY FUNCTIONS AS A WHOLE WITH THE EXISTING FIRE ALARM SYSTEM
13. CONTRACTOR TO REUSE EXISTING SMOKE DETECTORS THAT ARE STILL FUNCTIONING AND TO PROVIDE AND INSTALL NEW SMOKE DETECTORS AS NEEDED TO MEET THE NEW DESIGN REQUIREMENTS
14. NEW FIRE ALARM DEVICES, EQUIPMENT, AND SYSTEM SHALL MATCH EXISTING FACP'S MANUFACTURER
15. CONTRACTOR TO PROVIDE AND INSTALL NEW EXIT SIGNS IN EMERGENCY EXIT ROUTES
16. CONTRACTOR TO PROVIDE AND INSTALL NEW HORN-STROBES AS NEEDED TO MEET THE NEW DESIGN REQUIREMENTS. NEW HORN-STROBES SHALL MATCH EXISTING HORN-STROBES IN-KIND AND FACP MANUFACTURER

LEGEND

NO WORK IN THIS AREA

HORN STROBE COMBINATION

81st TRAINING WING

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RENOVATE ARNOLD HALL FOR SWING SPACE,B5901
PROJECT NO. MAHG241108

NEW WORK - FIRE ALARM

SHEET ID
FA-102

100% DESIGN SUBMITTAL