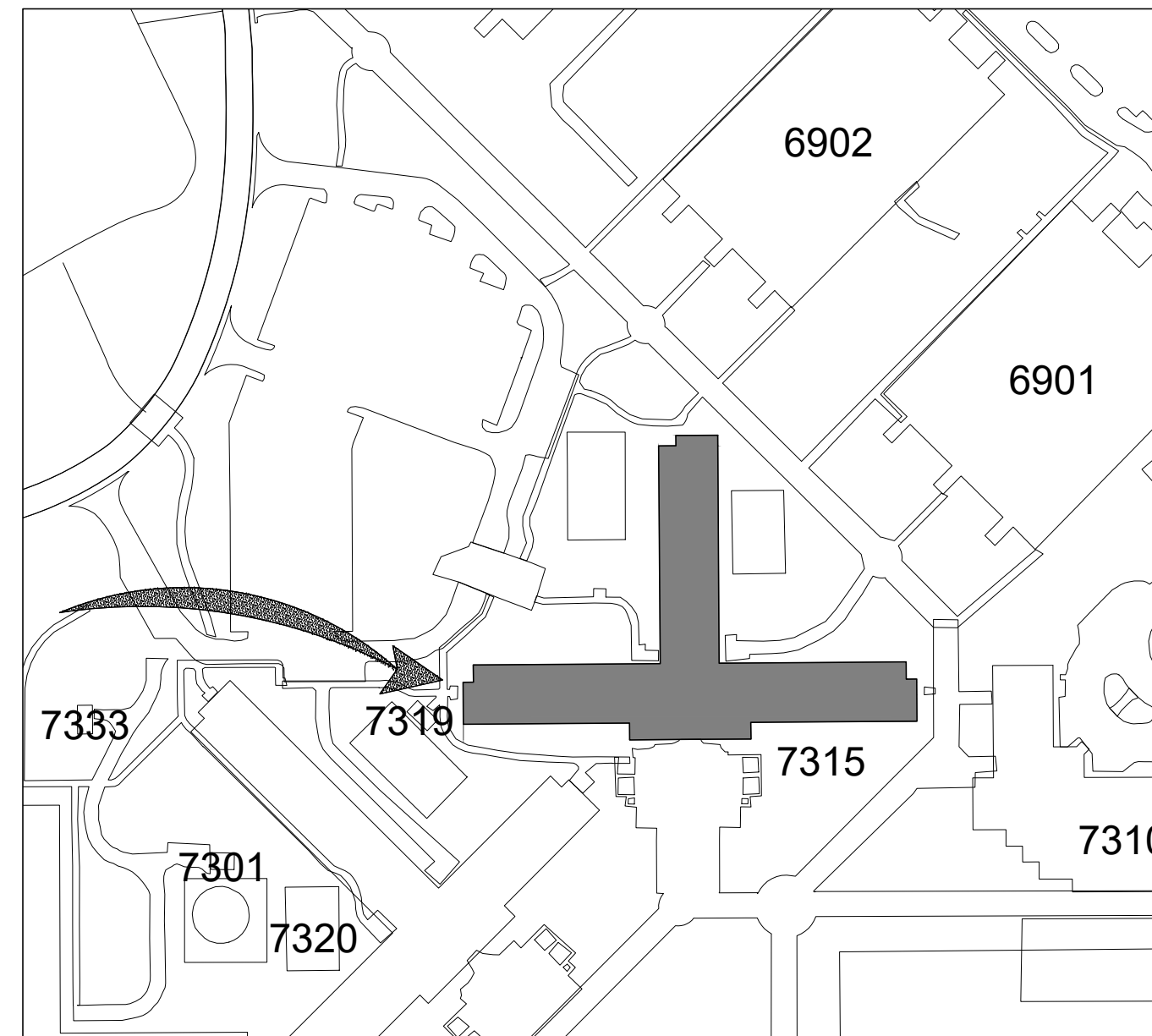


FA301023R0008
Attachment 4

REPAIR STUDENT DORM SMITH MANOR MAHG16-1017 KEESLER AFB, MISSISSIPPI

SMITH MANOR
BUILDING 7315



KEESLER AFB, MS
LOCATION PLAN, BLDG 7315 - SMITH MANOR
NOT TO SCALE

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ABBREVIATIONS

| | | | |
|-------|----------------------------------|-------|------------------------|
| AFF | ABOVE FINISH FLOOR | MIN | MINIMUM |
| ACT | ACOUSTICAL CEILING TILE | MLWK | MILLWORK |
| BD | BOARD | OC | ON CENTER |
| CONC. | CONCRETE | PLAM | PLASTIC LAMINATE |
| CONT | CONTINUOUS | PLUM | PLUMBING |
| CPT | CARPET | PLYWD | PLYWOOD |
| CT | CERAMIC TILE | PNT | PAINTED |
| ELECT | ELECTRIC | PT | PORCELAIN TILE |
| GWB | GYPHUM WALL BOARD | TYP | TYPICAL |
| GYP | GYPHUM | VCT | VINYL COMPOSITION TILE |
| HORZ | HORIZONTAL | VNYL | VINYL |
| HVAC | HEATING VENTING AIR CONDITIONING | VERT | VERTICAL |
| MAX | MAXIMUM | W/ | WITH |
| MECH | MECHANICAL | WD | WOOD |

| REVISION | DATE | DRAWN | APPROVED |
|--|------|-------|----------|
| UNITED STATES AIR FORCE AIR EDUCATION AND TRAINING COMMAND | | | |
| KEESLER AIR FORCE BASE MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |

**REPAIR STUDENT DORM
SMITH MANOR**

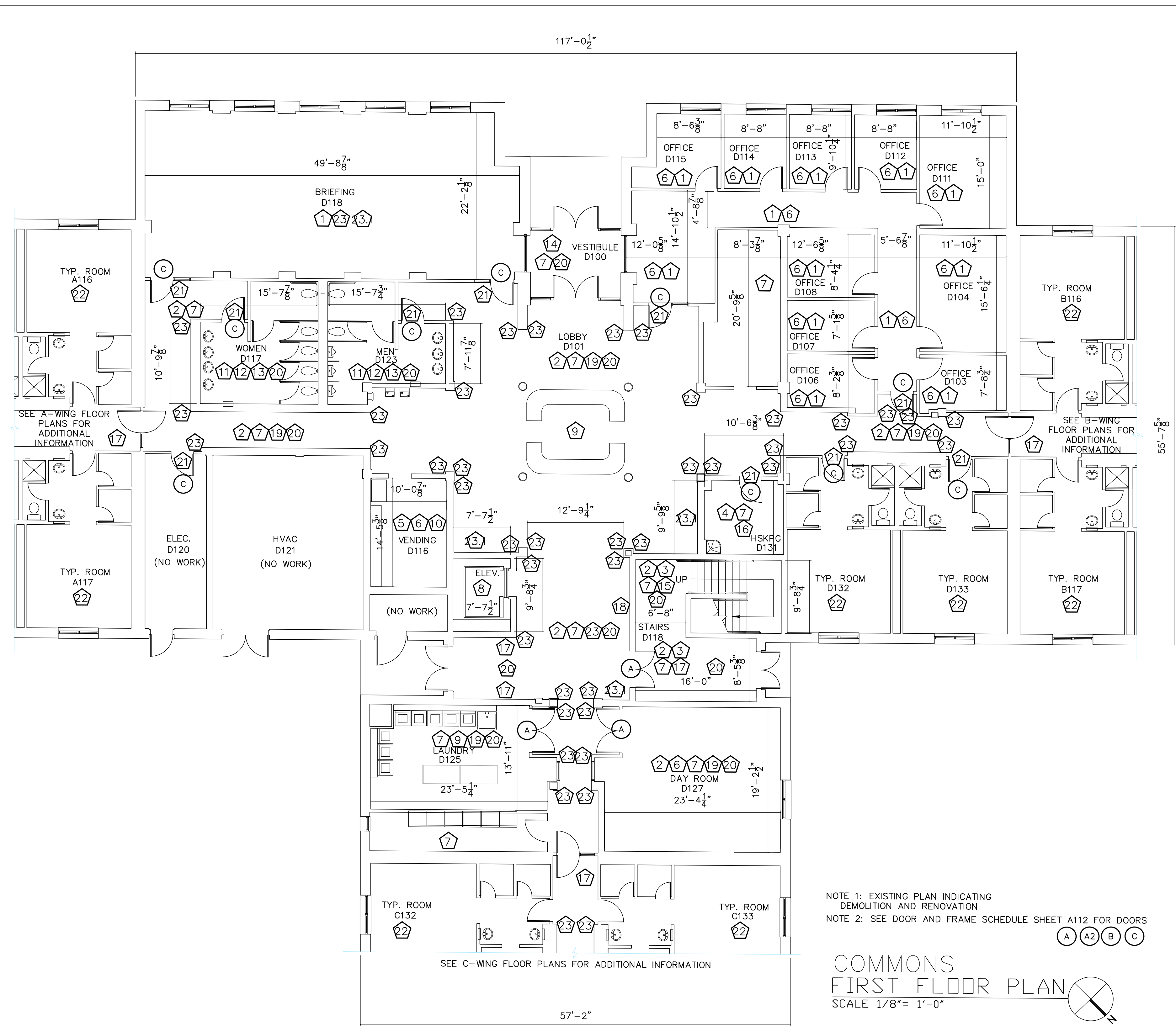
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|---|---|--------------------------------|
| SUBMITTED: J.BERGERON (Chief of Contracts Design) | RECOMMENDED: G. REED (Chief of Engineering) | FACILITY NUMBER: 7315 |
| DESIGNED: WILLIAMSON | CHECKED: G. REED | DRAWING NUMBER: T100 |
| DRAWN: WILLIAMSON | DATE: 12 OCT 2022 | PROJECT NUMBER: MAHG16-1017 |
| | | SHEET 1 OF 36 |

GENERAL NOTES:

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6. REMOVE AND DISPOSE OF ALL NAILS, BRACKETS, AND OTHER UNUSED ITEMS FROM WALL BEFORE PATCHING AND PAINTING.
7. REPLACE ANY MISSING OR DAMAGED ELECTRICAL FACE PLATES IN DORM ROOMS- MATCH EXISTING. REPLACE COMMON AREA FACEPLATES AS NOTED.
8. REMOVE SEALANT FROM ALL WINDOWS AND PREPARE FOR NEW SEALANT. APPLY NEW SEALANT IN A PROFESSIONAL WORKMAN LIKE MANNER.

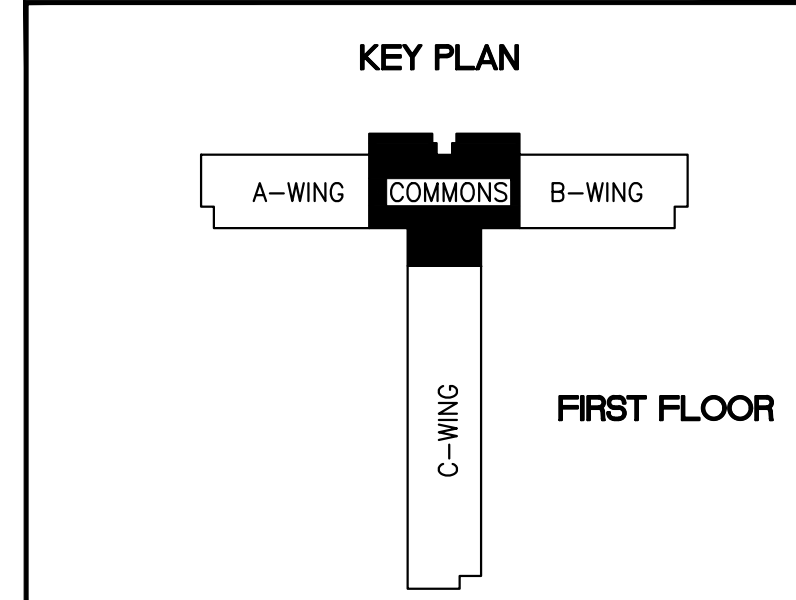
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- 8 REMOVE AND REPLACE FLOORING IN ELEVATOR.
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- 12 REMOVE AND REPLACE TOILET PAPER DISPENSERS AND SOAP DISPENSERS.
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NOTE 1: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION
NOTE 2: SEE DOOR AND FRAME SCHEDULE SHEET A112 FOR DOORS

COMMONS FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"

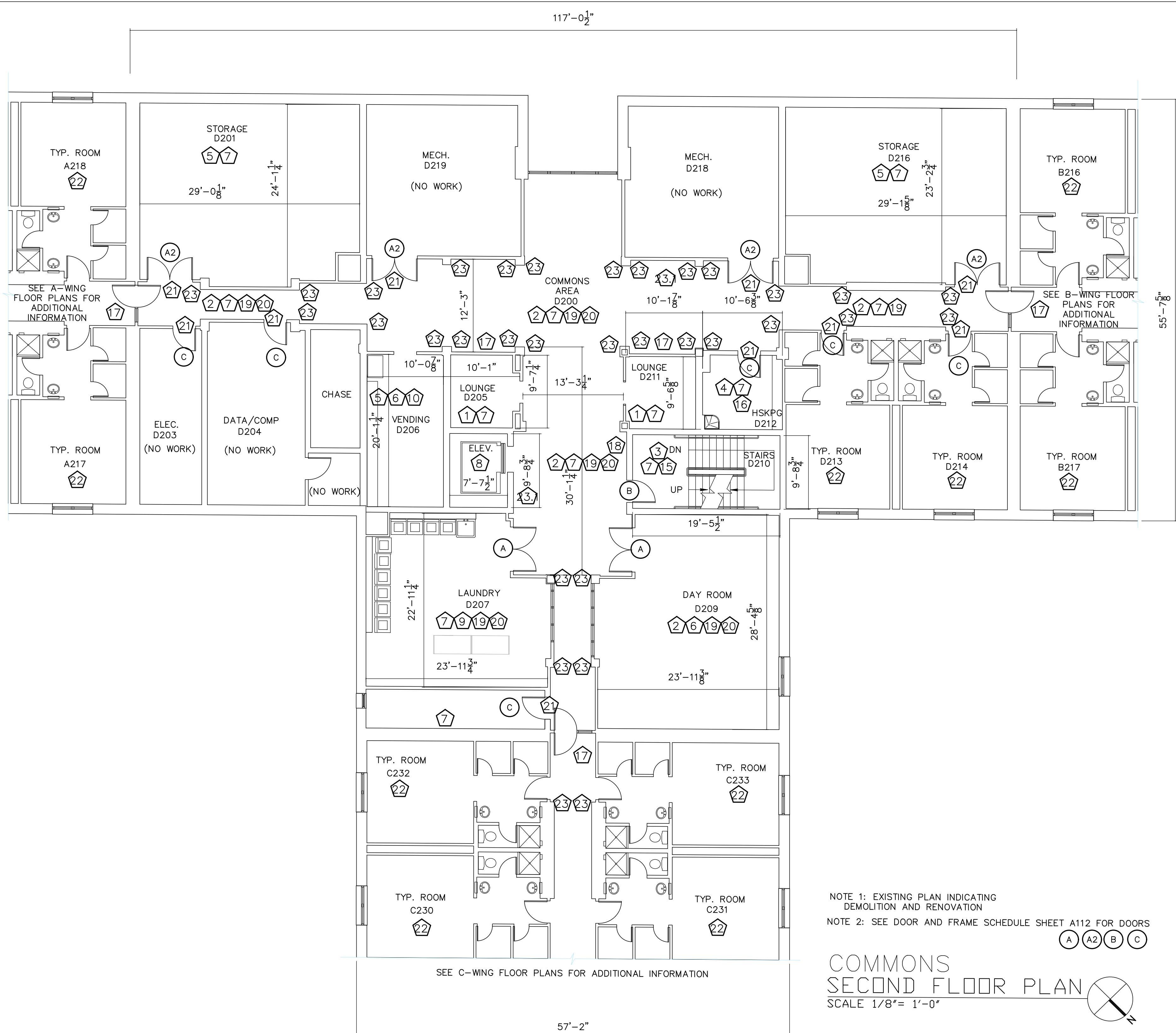


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|---|-------------------------|--------------------------------|--------------------------|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGVILLE, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| SUBMITTED: J. BERGERON (Chief of Controls Design) | DESIGNED: WILLIAMSON | CHECKED: G. REED | DATE: 12 OCT 2022 |
| RECOMMENDED: G. REED (Chief of Engineering) | SCALE: VARIES | PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 |
| DRAWING NUMBER: A100 | | | SHEET 2 OF 36 |

- GENERAL NOTES:**
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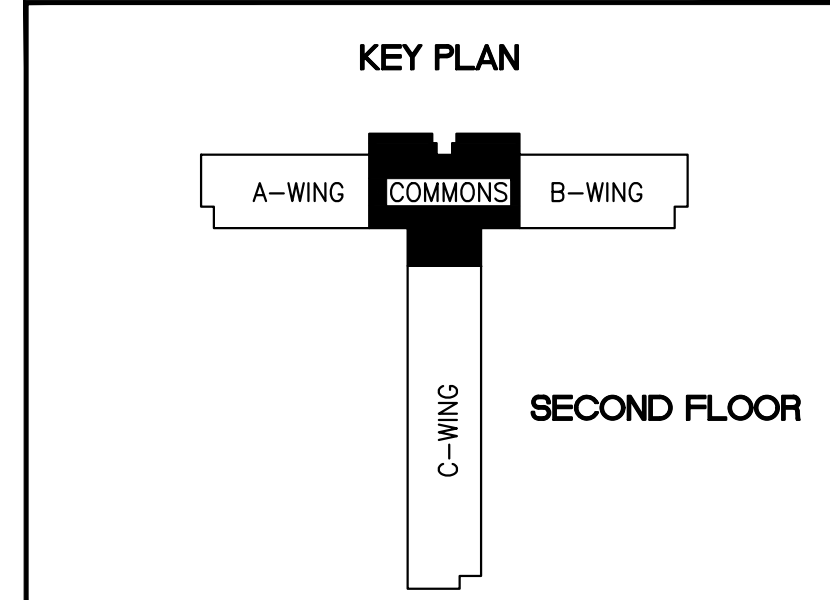
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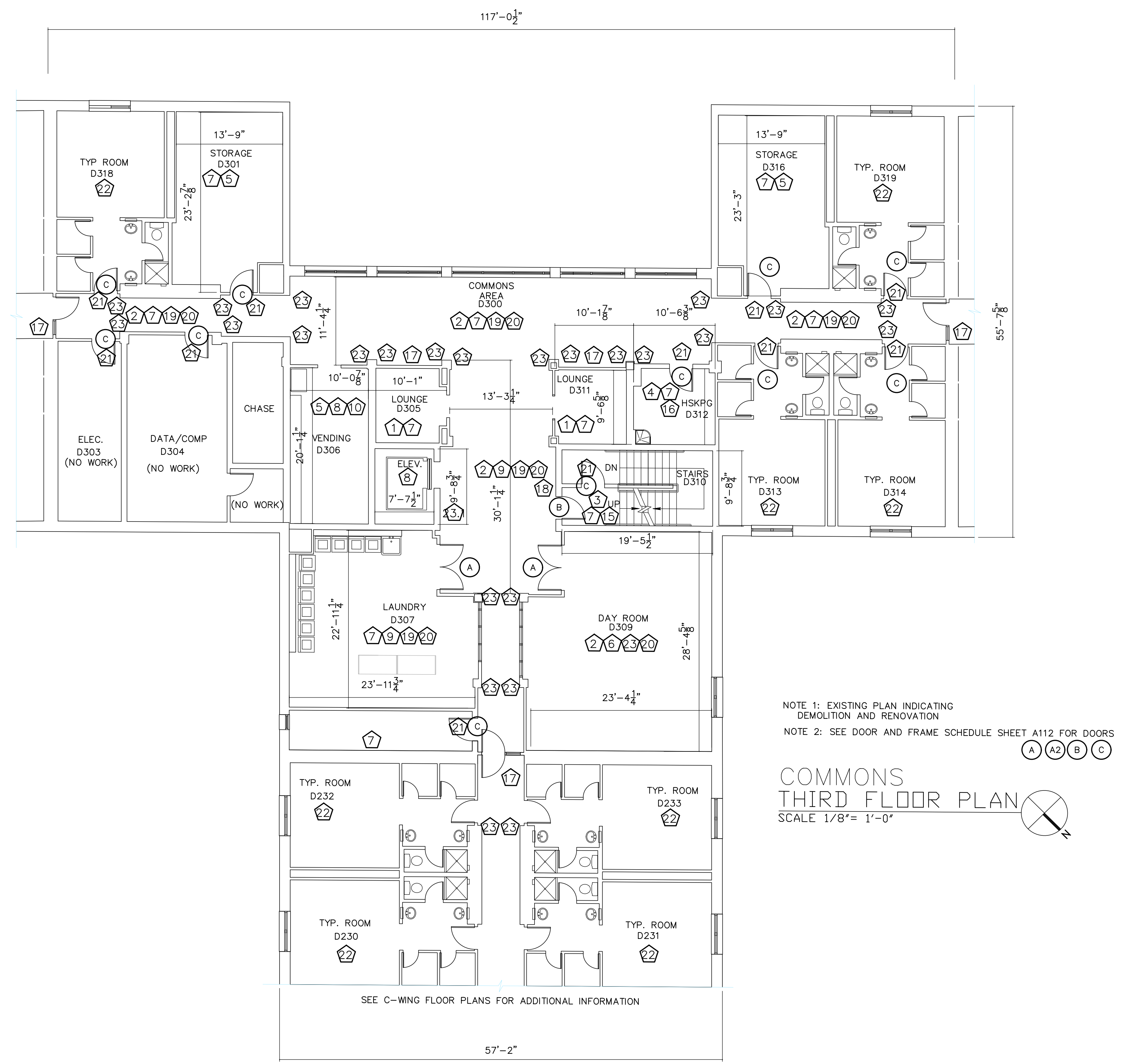
| REVISION | DATE | DRAWN | APPROVED |
|---|-------------------------|--------------------------------|--------------------------|
| UNITED STATES AIR FORCE KEESLER AIR FORCE BASE BLOOMINGTON, MISSISSIPPI OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| SUBMITTED: J. BERGERON (Chief of Contracts Design) | DESIGNED: WILLIAMSON | CHECKED: G. REED | DATE: 12 OCT 2022 |
| RECOMMENDED: G. REED (Chief of Engineering) | SCALE: VARIES | PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 |
| DRAWING NUMBER: A101 | | | SHEET 3 OF 36 |

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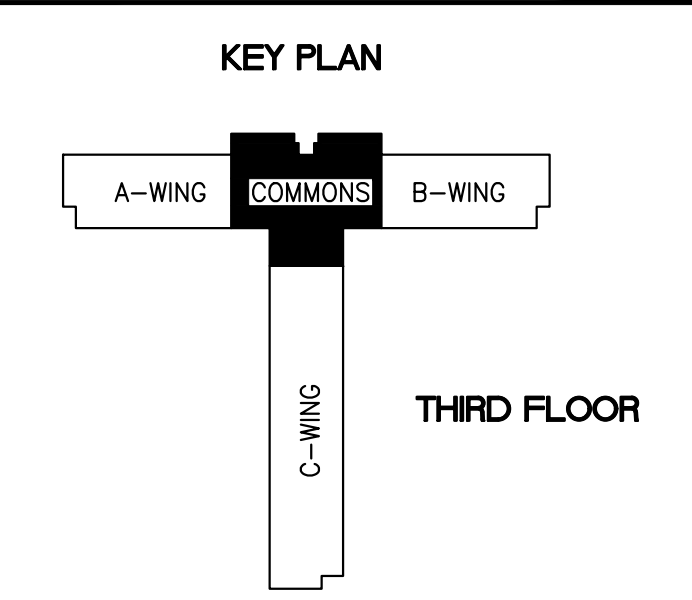
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(A) (A2) (B) (C)

**COMMONS
THIRD FLOOR PLAN**
SCALE 1/8" = 1'-0"

SEE C-WING FLOOR PLANS FOR ADDITIONAL INFORMATION

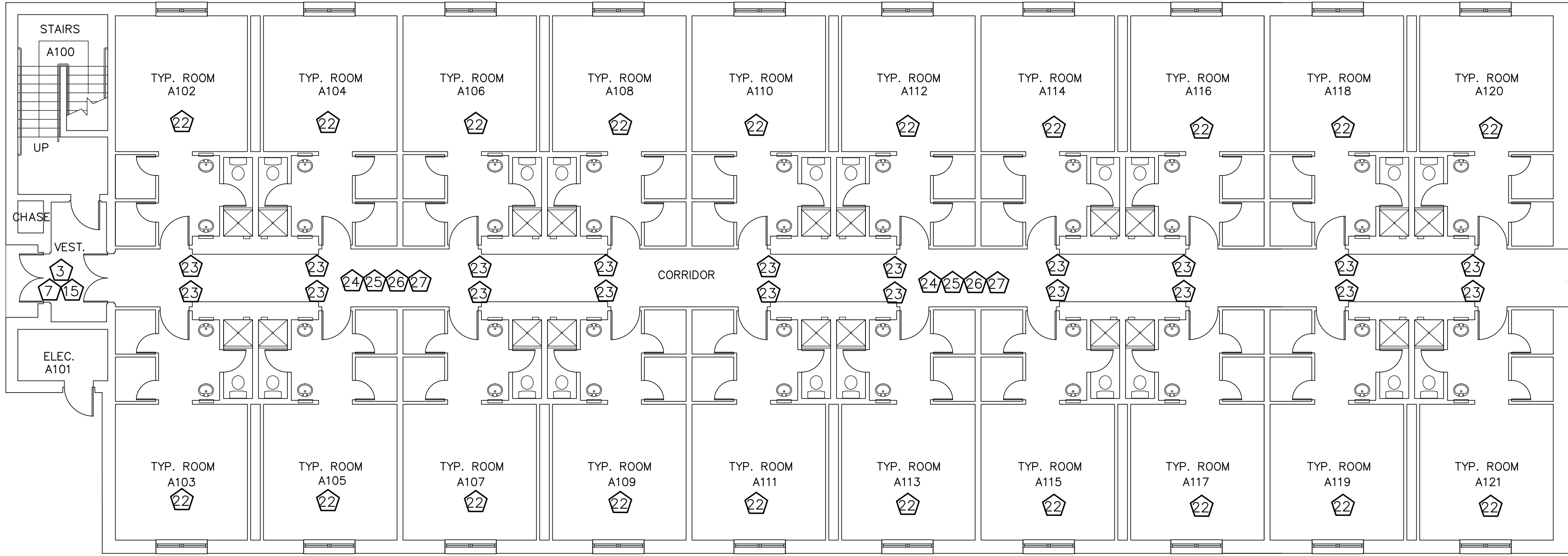


| REVISION | DATE | DRAWN | APPROVED |
|---|---|---|---|
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| REPAIR STUDENT DORM SMITH MANOR | | | |
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| <small>DESIGNED:</small> WILLIAMSON | <small>CHECKED:</small> G. REED | <small>SCALE:</small> VARIES | <small>DRAWING NUMBER:</small> A102 |
| <small>DRAWN:</small> WILLIAMSON | <small>DATE:</small> 12 OCT 2022 | <small>PROJECT NUMBER:</small> MAHG16-1017 | <small>SHEET</small> 4 <small>OF</small> 36 |

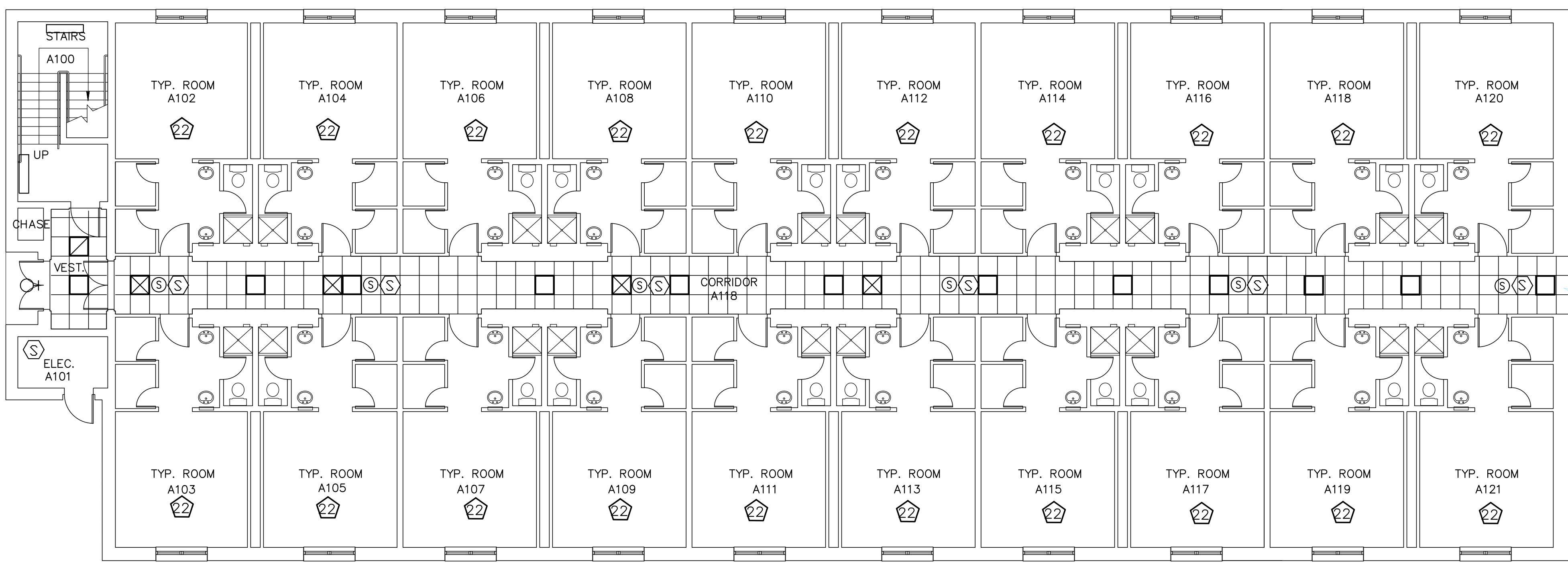
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5. REPLACE CEILING TILES SUPPORTING EXIT SIGNAGE WITH 3/4" WHITE MELAMINE FACED PANELING. FASTEN "EXIT" SIGNAGE TO MELAMINE PANEL.
6. REMOVE AND DISPOSE OF ALL NAILS, BRACKETS, AND OTHER UNUSED ITEMS FROM WALL BEFORE PATCHING AND PAINTING.
7. REPLACE ANY MISSING OR DAMAGED ELECTRICAL FACE PLATES IN DORM ROOMS- MATCH EXISTING. REPLACE COMMON AREA FACEPLATES AS NOTED.
8. REMOVE SEALANT FROM ALL WINDOWS AND PREPARE FOR NEW SEALANT. APPLY NEW SEALANT IN A PROFESSIONAL WORKMAN LIKE MANNER.

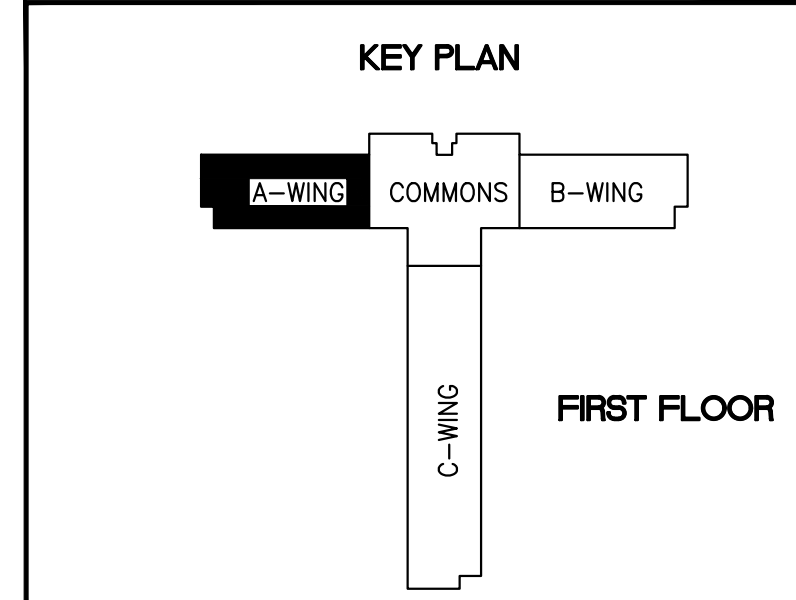
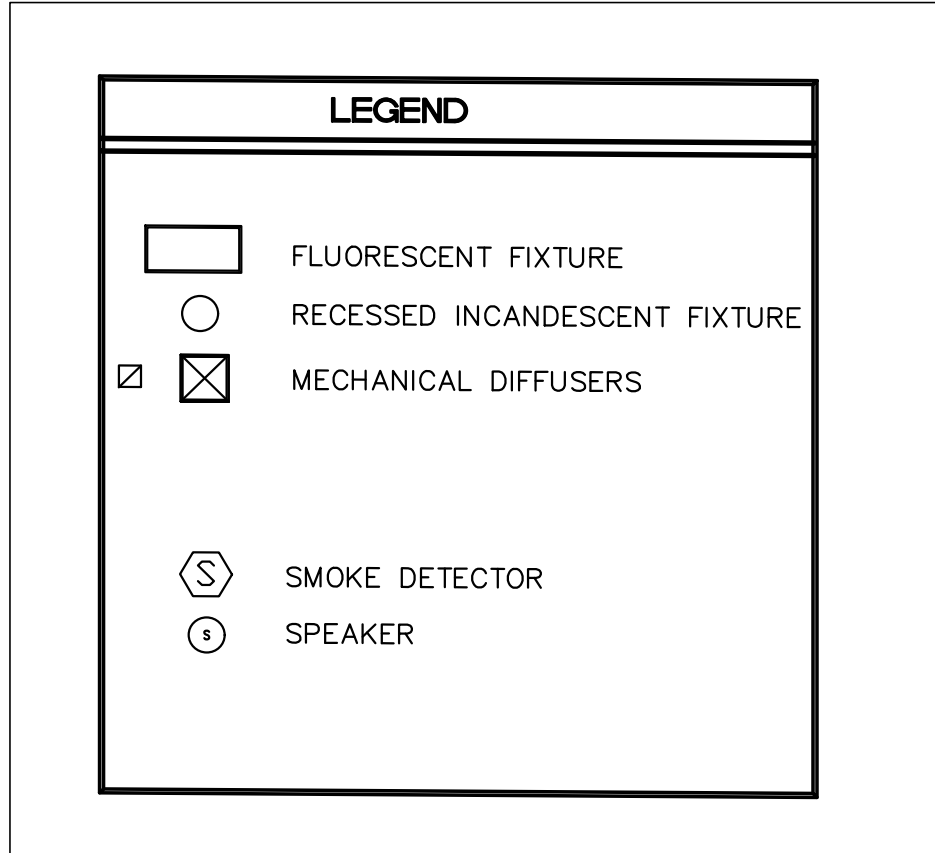
- TYPICAL DORM WING HALL KEYED NOTES**
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A-WING
FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"
NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION



A-WING
FIRST FLOOR
REFLECTED CEILING PLAN
SCALE 1/8" = 1'-0"
NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION
CORRIDOR AREA RCP FOR REFERENCE ONLY

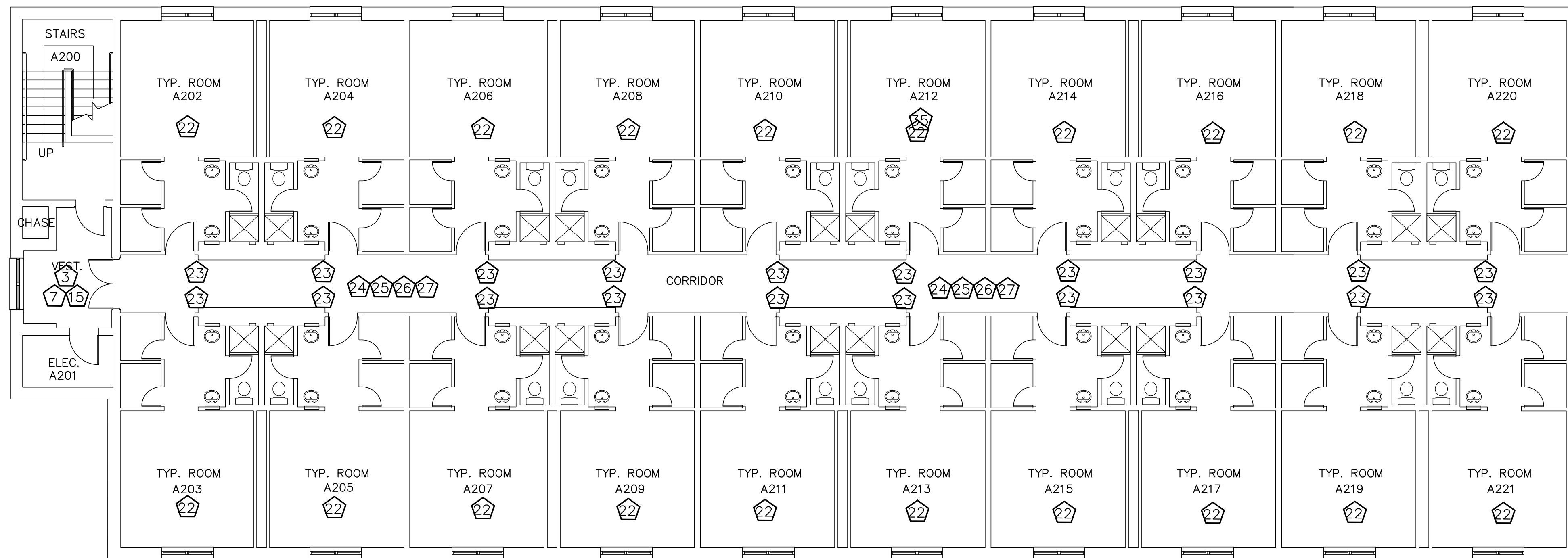


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|---|---|--------------------------------|-----------------------------|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE BLOOMINGVILLE, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| SUBMITTED: J. BERGERON (Chief of Contracts Design) | RECOMMENDED: G. REED (Chief of Engineering) | FACILITY NUMBER: 7315 | |
| DESIGNED: WILLIAMSON | CHECKED: G. REED | SCALE: VARIES | DRAWING NUMBER: A103 |
| DRAWN: WILLIAMSON | DATE: 12 OCT 2022 | PROJECT NUMBER: MAHG16-1017 | SHEET <u>5</u> OF <u>36</u> |

GENERAL NOTES:

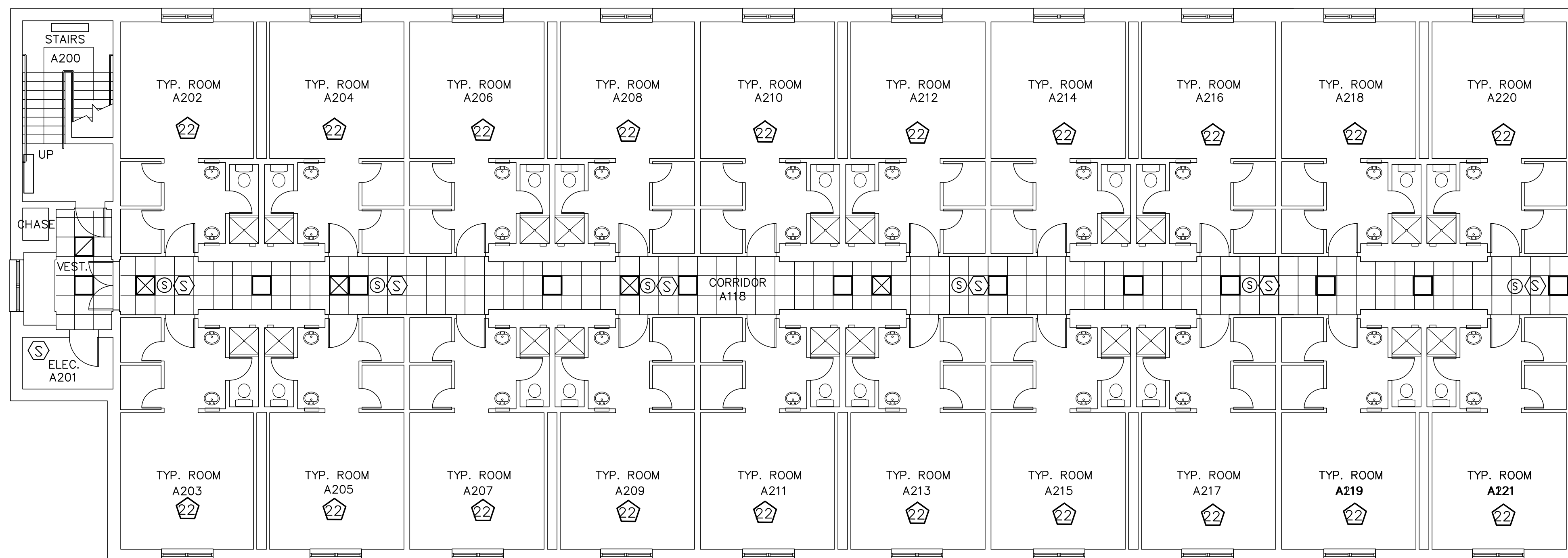
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| TYPICAL DORM WING HALL KEYED NOTES | |
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A-WING
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

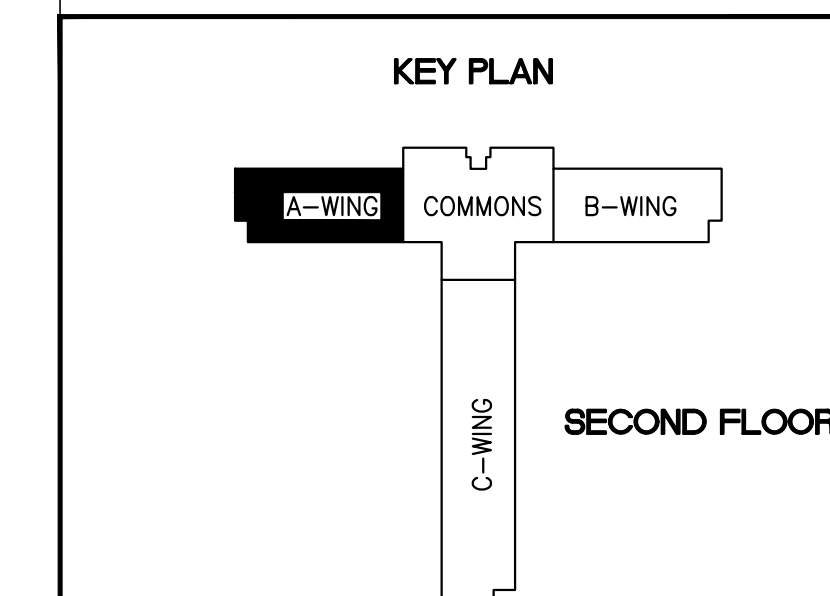
NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION



A-WING
SECOND FLOOR
REFLECTED CEILING PLAN
SCALE 1/8" = 1'-0"

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION
CORRIDOR AREA RCP FOR REFERENCE ONLY

| LEGEND | |
|----------|-------------------------------|
| [Symbol] | FLUORESCENT FIXTURE |
| [Symbol] | RECESSED INCANDESCENT FIXTURE |
| [Symbol] | MECHANICAL DIFFUSERS |
| [Symbol] | SMOKE DETECTOR |
| [Symbol] | SPEAKER |

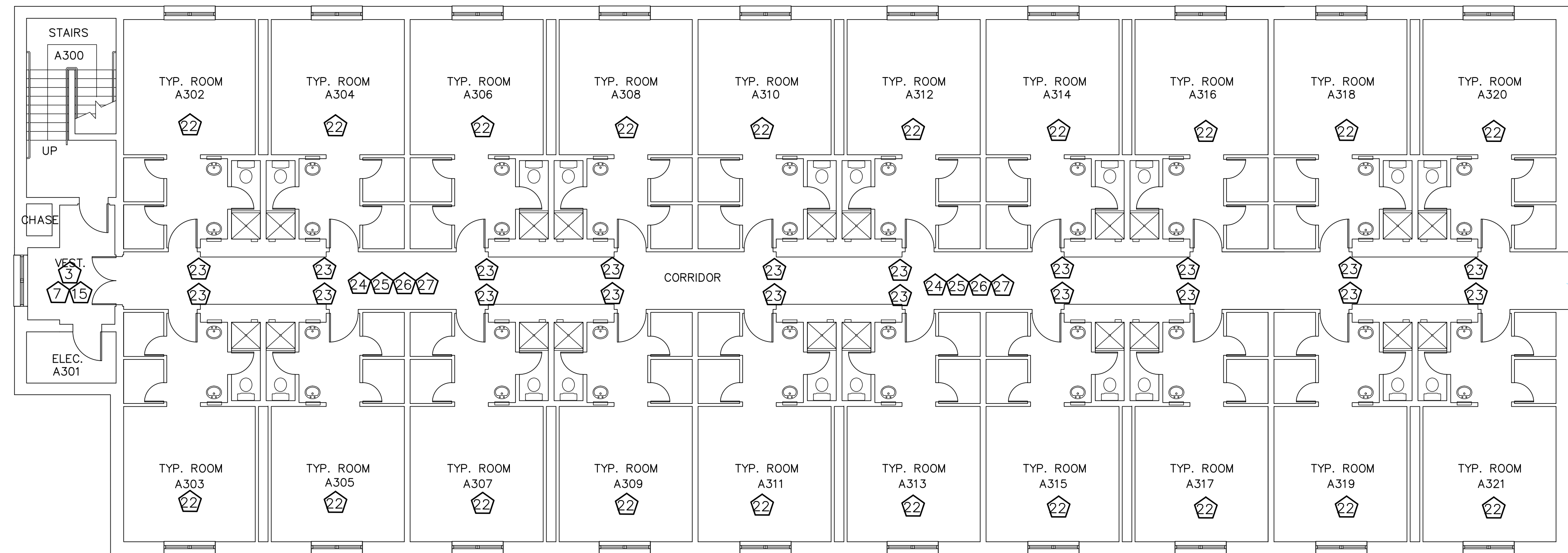


| REVISION | DATE | DRAWN | APPROVED |
|---|---|--------------------------------|-------------------------|
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE BLOOMINGVILLE, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| SUBMITTED: J. BERGERON (Chief of Contracts Design) | RECOMMENDED: G. REED (Chief of Engineering) | FACILITY NUMBER: 7315 | |
| DESIGNED: WILLIAMSON | CHECKED: G. REED | SCALE: VARIES | DRAWING NUMBER: A104 |
| DRAWN: WILLIAMSON | DATE: 12 OCT 2022 | PROJECT NUMBER: MAHG16-1017 | SHEET: 6 OF 36 |

GENERAL NOTES:

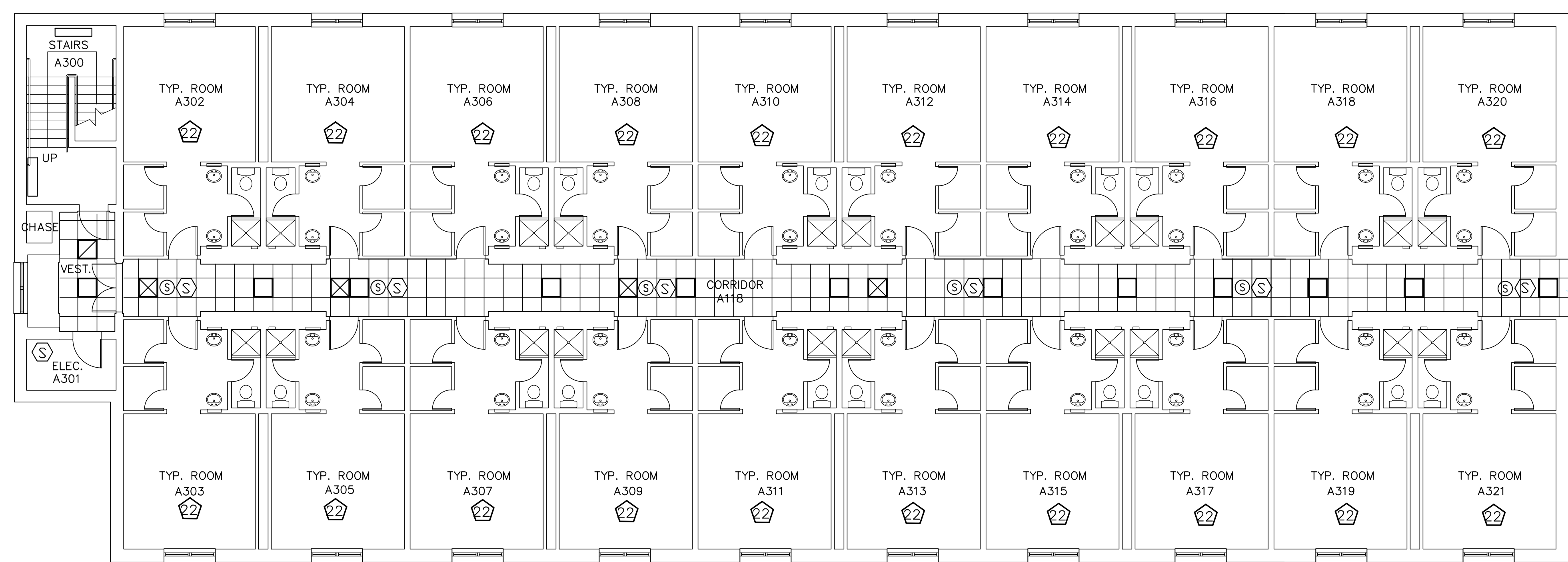
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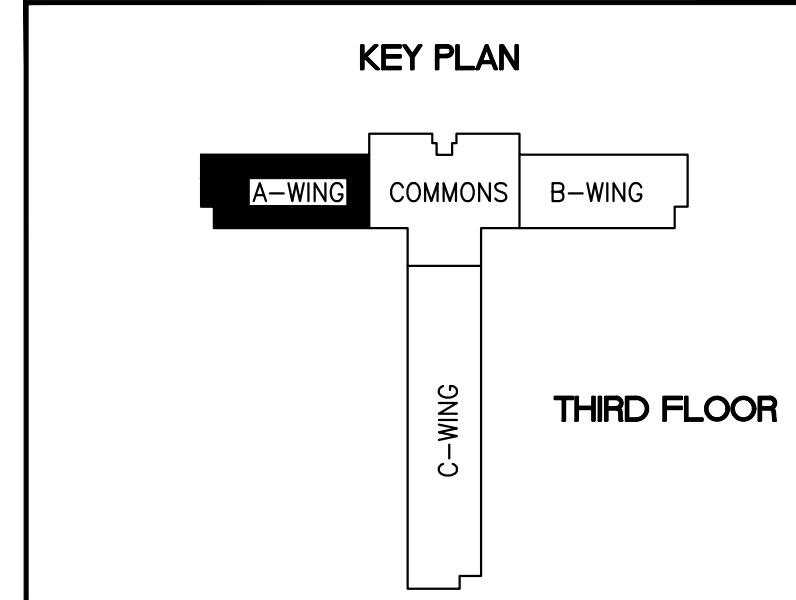
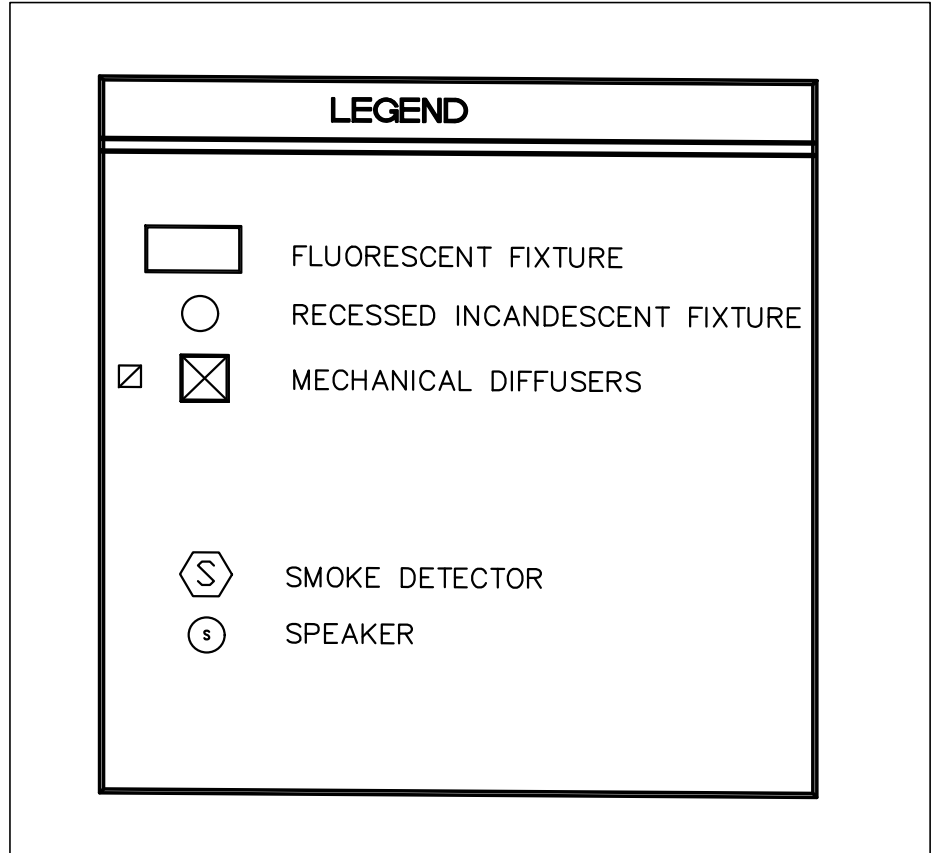
A-WING
THIRD FLOOR PLAN
SCALE 1/8" = 1'-0"

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION



A-WING
THIRD FLOOR
REFLECTED CEILING PLAN
SCALE 1/8" = 1'-0"

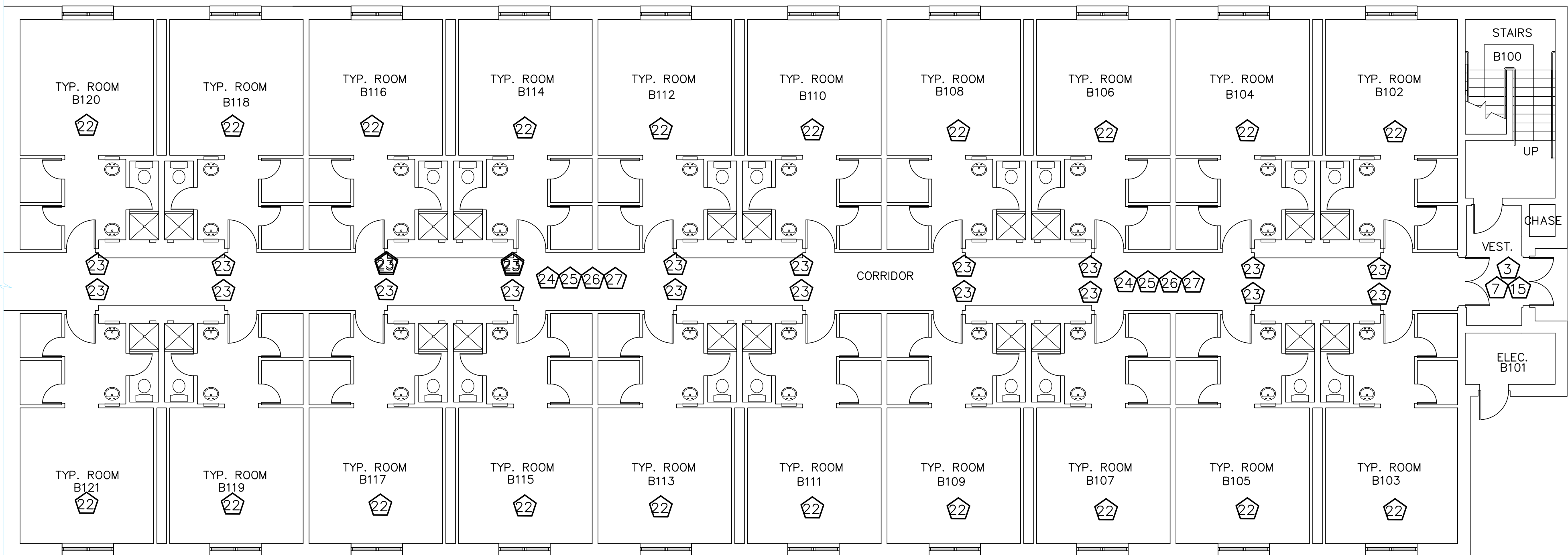
NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION
CORRIDOR AREA RCP FOR REFERENCE ONLY



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| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGVILLE, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| SUBMITTED: J. BERGERON (Chief of Contracts Design) | DESIGNED: WILLIAMSON | CHECKED: G. REED | DATE: 12 OCT 2022 |
| RECOMMENDED: G. REED (Chief of Engineering) | SCALE: VARIES | PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 |
| | | | DRAWING NUMBER: A105 |
| | | | SHEET 7 OF 36 |

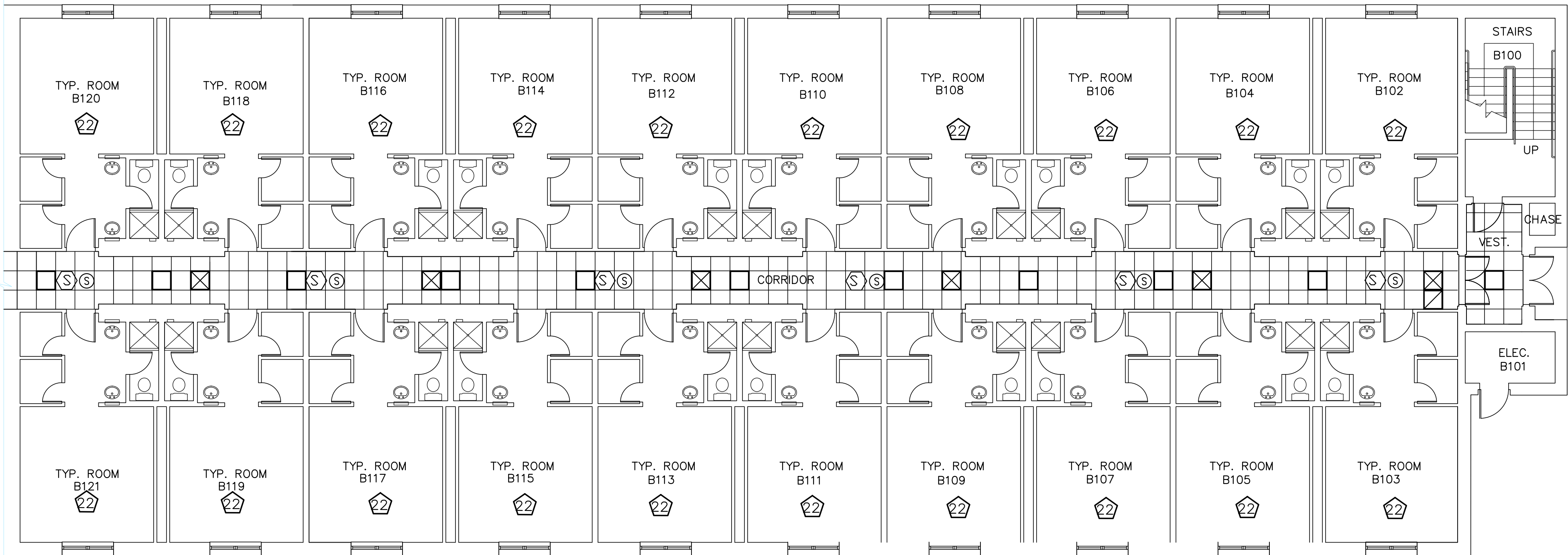
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**B-WING
FIRST FLOOR PLAN**
SCALE 1/8" = 1'-0"

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

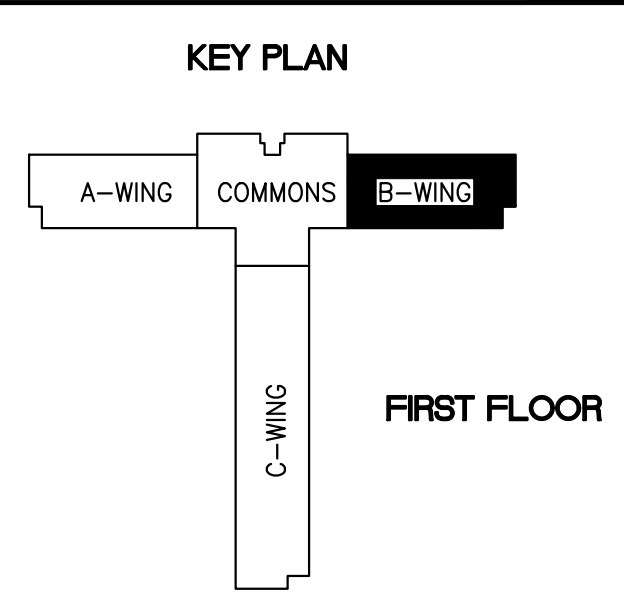
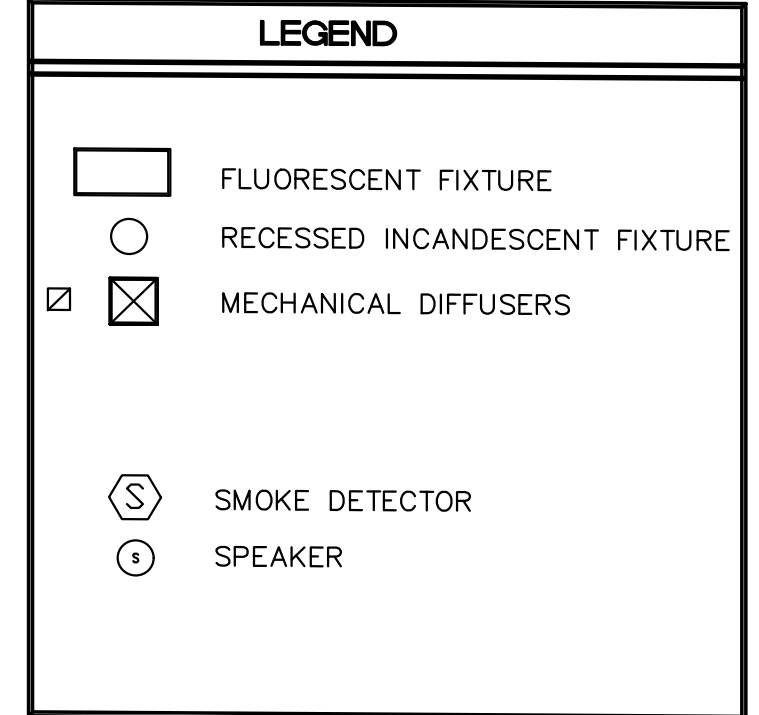


**B-WING
FIRST FLOOR
REFLECTED CEILING PLAN**
SCALE 1/8" = 1'-0"

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION
CORRIDOR AREA RCP FOR REFERENCE ONLY

TYPICAL DORM WING HALL KEYED NOTES

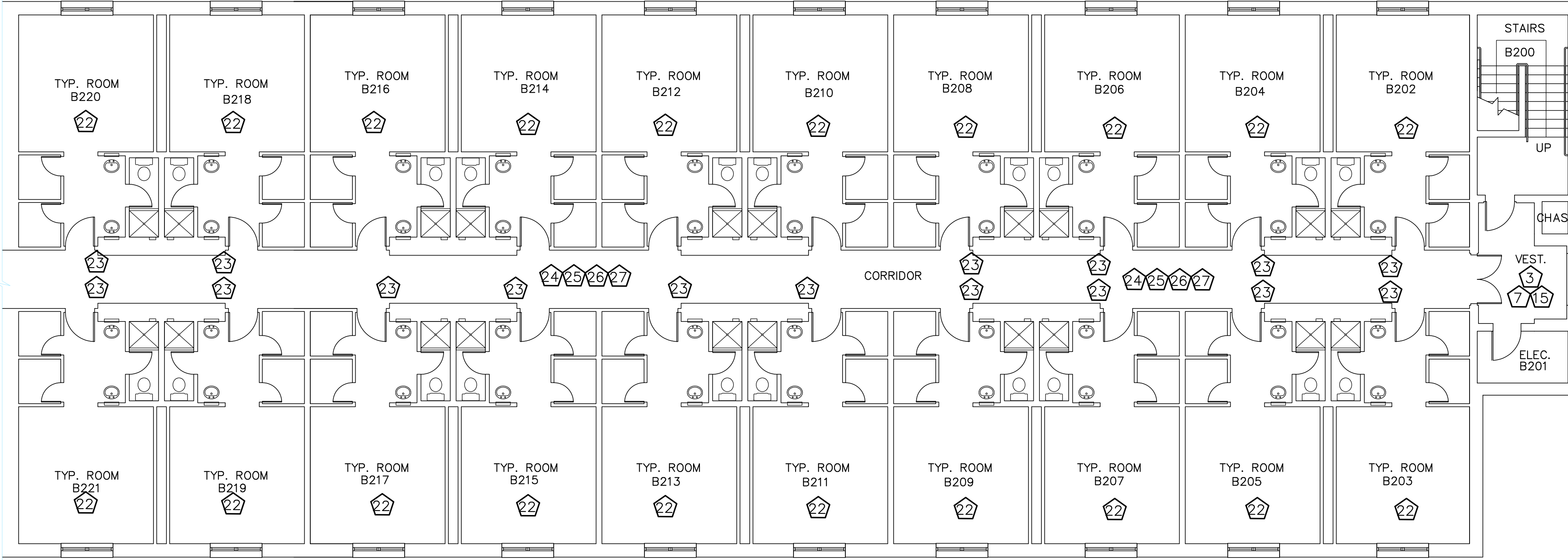
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|---|---|----------------------|--------------------------|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE BLOOMINGVILLE, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| SUBMITTED: J. BERGERON (Chief of Contracts Design) | CHECKED: G. REED (Chief of Engineering) | SCALE: VARIES | FACILITY NUMBER: 7315 |
| DESIGNED: WILLIAMSON | CHECKED: G. REED | DATE: 12 OCT 2022 | DRAWING NUMBER: A106 |
| DRAWN: WILLIAMSON | PROJECT NUMBER: MAHG16-1017 | SHEET 8 OF 36 | |

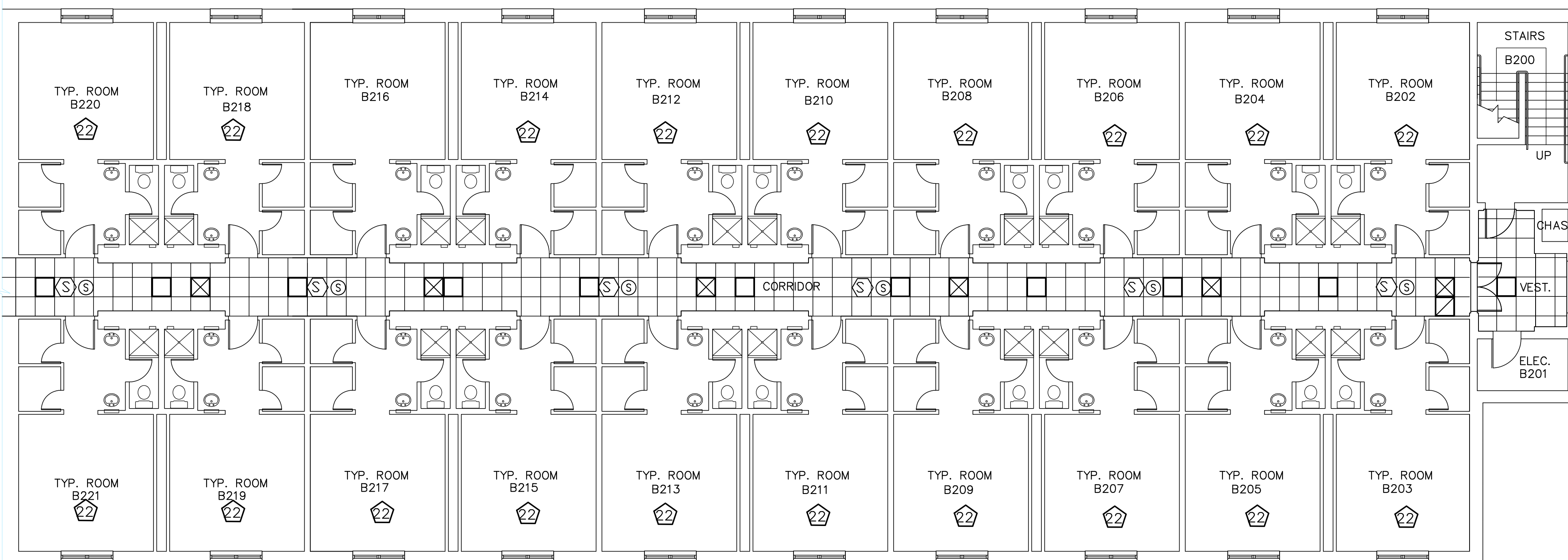
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B-WING
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

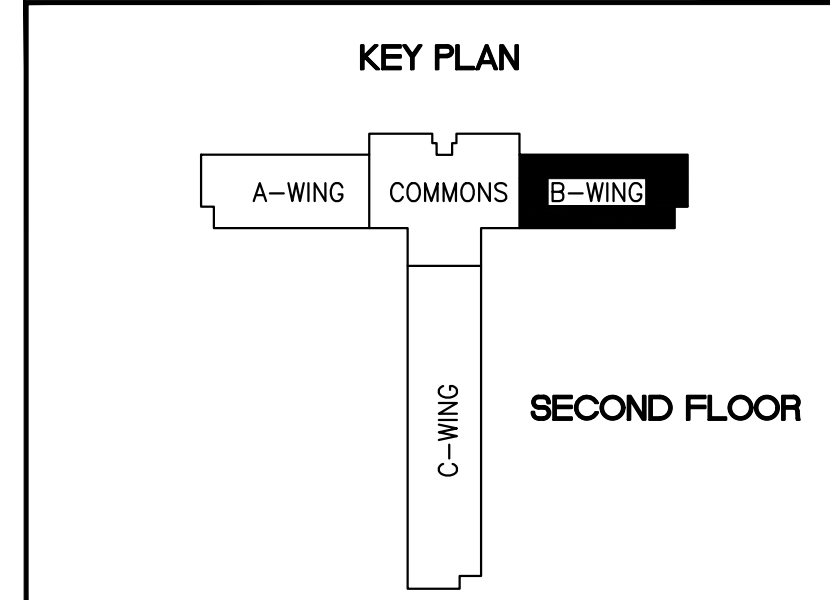


B-WING
SECOND FLOOR
REFLECTED CEILING PLAN
SCALE 1/8" = 1'-0"

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION
CORRIDOR AREA RCP FOR REFERENCE ONLY

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| LEGEND | |
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| [Symbol] | FLUORESCENT FIXTURE |
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| [Symbol] | SMOKE DETECTOR |
| [Symbol] | SPEAKER |



| REVISION | DATE | DRAWN | APPROVED |
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UNITED STATES AIR FORCE
KEESLER AIR FORCE BASE
BLOOMINGVILLE, MISSISSIPPI
OFFICE OF CIVIL ENGINEERS

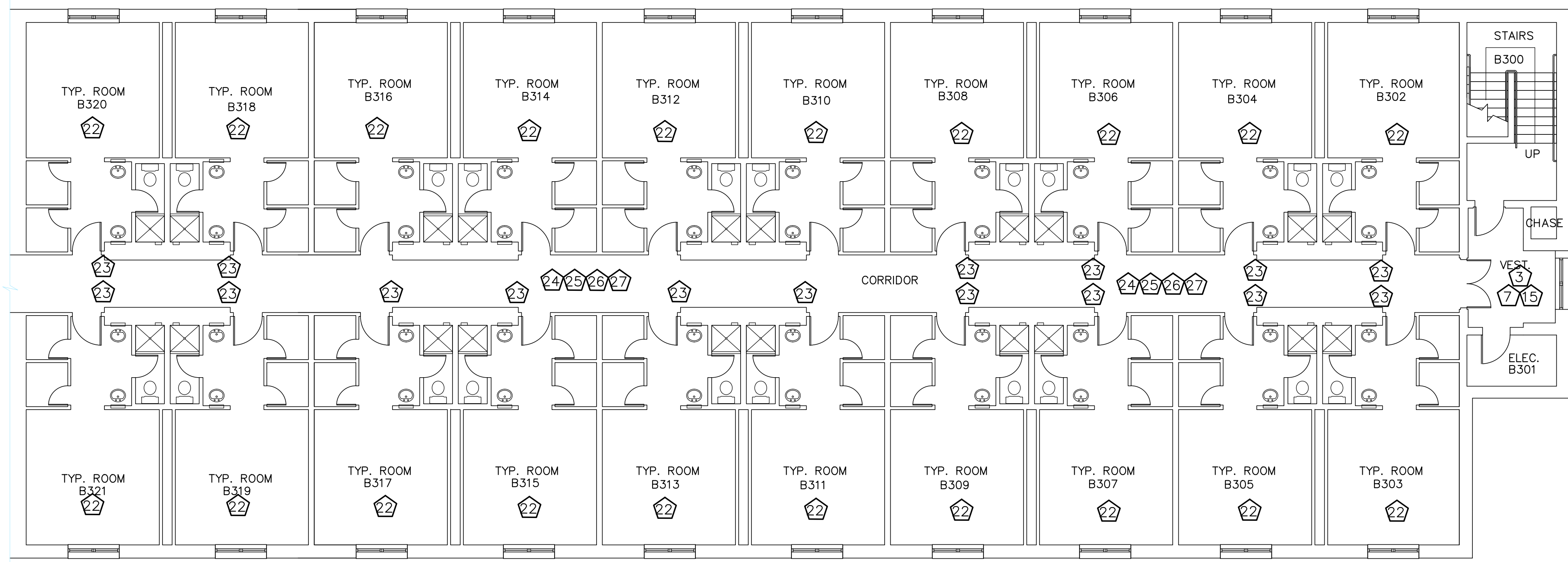
**REPAIR STUDENT DORM
SMITH MANOR**

| | | |
|--|---|--------------------------------|
| SUBMITTED: J. BERGERON (Chief of Contracts Design) | RECOMMENDED: G. REED (Chief of Engineering) | FACILITY NUMBER: 7315 |
| DESIGNED: WILLIAMSON | CHECKED: G. REED | DRAWING NUMBER: A107 |
| DRAWN: WILLIAMSON | DATE: 12 OCT 2022 | PROJECT NUMBER: MAHG16-1017 |
| SHEET 9 OF 36 | | |

GENERAL NOTES:

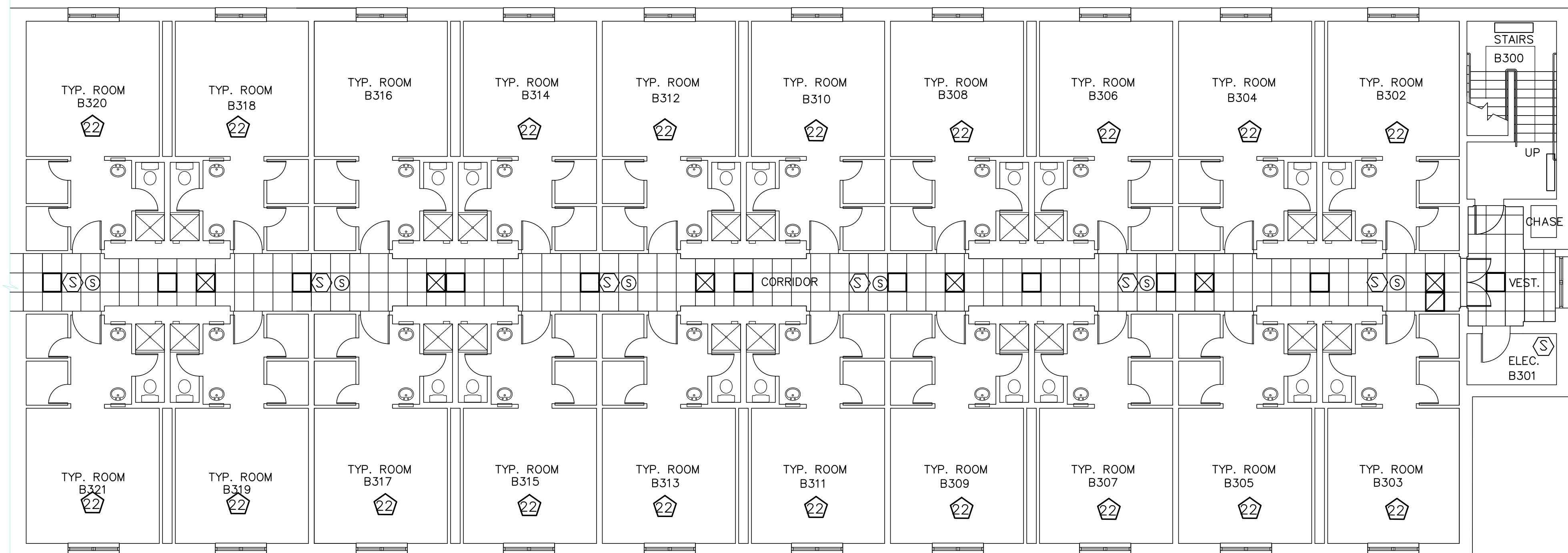
1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BID AND START OF CONSTRUCTION. NOTIFY CONTRACTING OFFICER OF ANY CONDITIONS DETRIMENTAL TO THE COMPLETION OF THE WORK AS DESIGNED.
2. PROTECT ALL FIRE ALARM COMPONENTS, CEILING GRID, FIRE EXTINGUISHER CABINETS, SPRINKLER HEADS, HVAC GRILLS, AND OTHER EQUIPMENT OR FINISHES FROM DUST, PAINT, AND CONSTRUCTION DEBRIS DURING CONSTRUCTION. CONTRACTOR WILL REPLACE OR CLEAN IN PLACE ANY DAMAGED OR CONTAMINATED ITEMS.
3. CONFINE ALL WORK TO SPECIFIC AREAS AS DESIGNATED IN THE SCOPE OF WORK AND SCHEDULE. WORK SHALL BE COMPLETED IN ONE SECTION BEFORE MOVING ON TO THE NEXT SECTION.
4. CONTRACTING OFFICER TO SELECT PAINT COLOR AND SHEEN FROM MANUFACTURER'S STANDARD COLORS FOR ALL SURFACES TO BE PAINTED. WALLS, CEILINGS, HANDRAILS, DOOR FRAMES TO BE PAINTED IN ROOMS BEING WORKED IN. DOORS TO BE PAINTED AS CALLED FOR.
5. REPLACE CEILING TILES SUPPORTING EXIT SIGNAGE WITH 3/4" WHITE MELAMINE FACED PANELING. FASTEN "EXIT" SIGNAGE TO MELAMINE PANEL.
6. REMOVE AND DISPOSE OF ALL NAILS, BRACKETS, AND OTHER UNUSED ITEMS FROM WALL BEFORE PATCHING AND PAINTING.
7. REPLACE ANY MISSING OR DAMAGED ELECTRICAL FACE PLATES IN DORM ROOMS- MATCH EXISTING. REPLACE COMMON AREA FACEPLATES AS NOTED.
8. REMOVE SEALANT FROM ALL WINDOWS AND PREPARE FOR NEW SEALANT. APPLY NEW SEALANT IN A PROFESSIONAL WORKMAN LIKE MANNER.

- TYPICAL DORM WING HALL KEYED NOTES**
- 3 REMOVE RUBBER FLOORING & RUBBER BASE. PROVIDE NEW RUBBER FLOORING & 6" RUBBER BASE IN STAIRWELLS AND VESTIBULES. REPAIR ANY DAMAGED WALL BEFORE APPLYING NEW BASE.
 - 7 PATCH GYPSUM WALLBOARD HOLES, SCRATCHES, AND CRACKS AS NECESSARY. MATCH EXISTING WALL TEXTURE. PAINT ACCORDING TO SPECIFICATIONS.
 - 15 REPAIR PEELING WALL FINISH IN STAIRWELLS. PRIME AND PAINT STAIRWELL WALLS AND HANDRAIL STRIP. CLEAN STAIR NOSING AND CONCRETE. RESEAL/PAINT CONCRETE. REMOVE AND PROVIDE NEW RUBBER FLOORING AT LANDINGS WITH NEW RUBBER BASE.
 - 22 REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS (1/A112).
 - 23 PROVIDE 4' TALL HEAVY DUTY CORNER GUARDS.
 - 24 REMOVE EXISTING RUBBER BASE. REPAIR DAMAGED GYPSUM WALLBOARD BACKER AS REQUIRED. REPLACE WITH MATCHING CERAMIC TILE BASE AND GROUT.
 - 25 PATCH GYPSUM WALLBOARD HOLES, SCRATCHES, SPLITS AND CRACKS AS NECESSARY. MATCH EXISTING WALL TEXTURE.
 - 26 REPLACE DORM ROOM SIGNAGE. MATCH EXISTING ROOM SIGNAGE.
 - 27 STRIP, CLEAN, & SEAL TILE FLOORS AND GROUT.



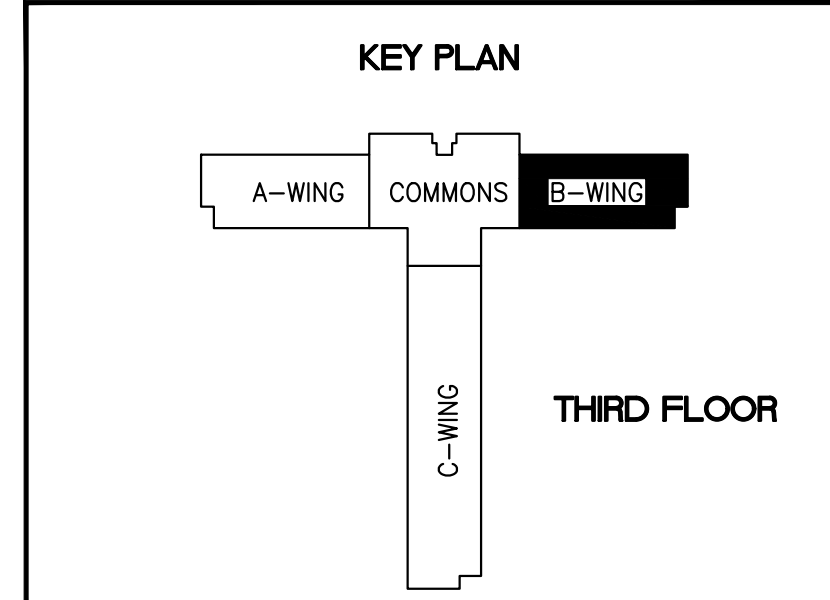
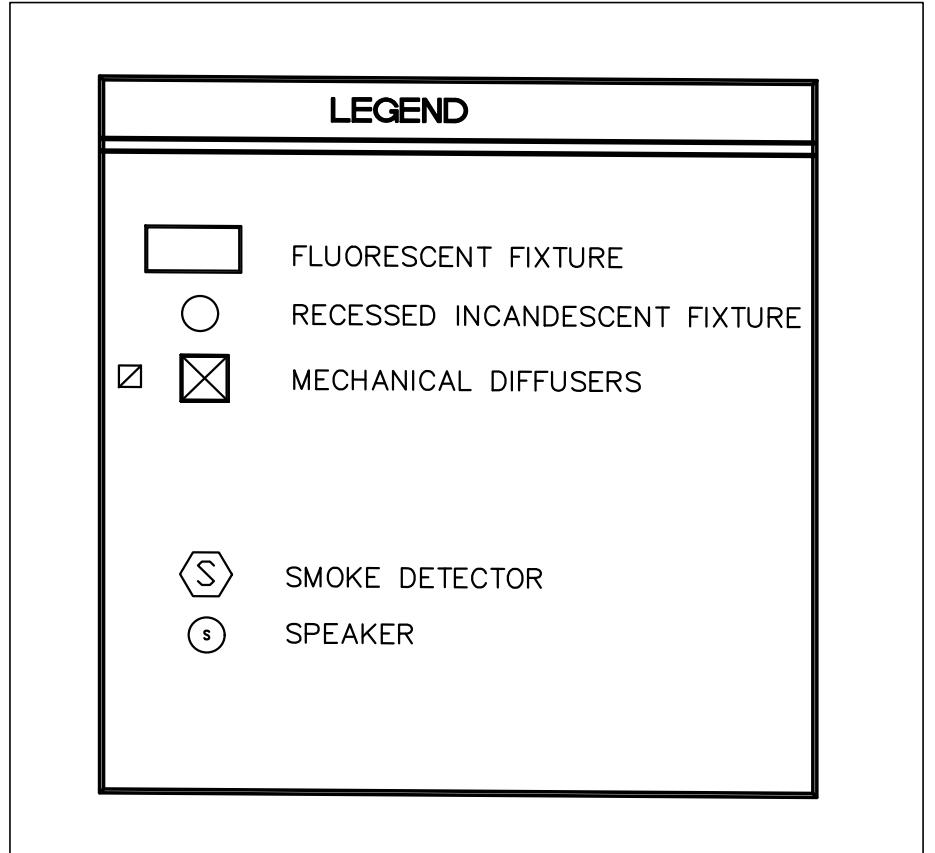
**B-WING
THIRD FLOOR PLAN**
SCALE 1/8" = 1'-0"

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

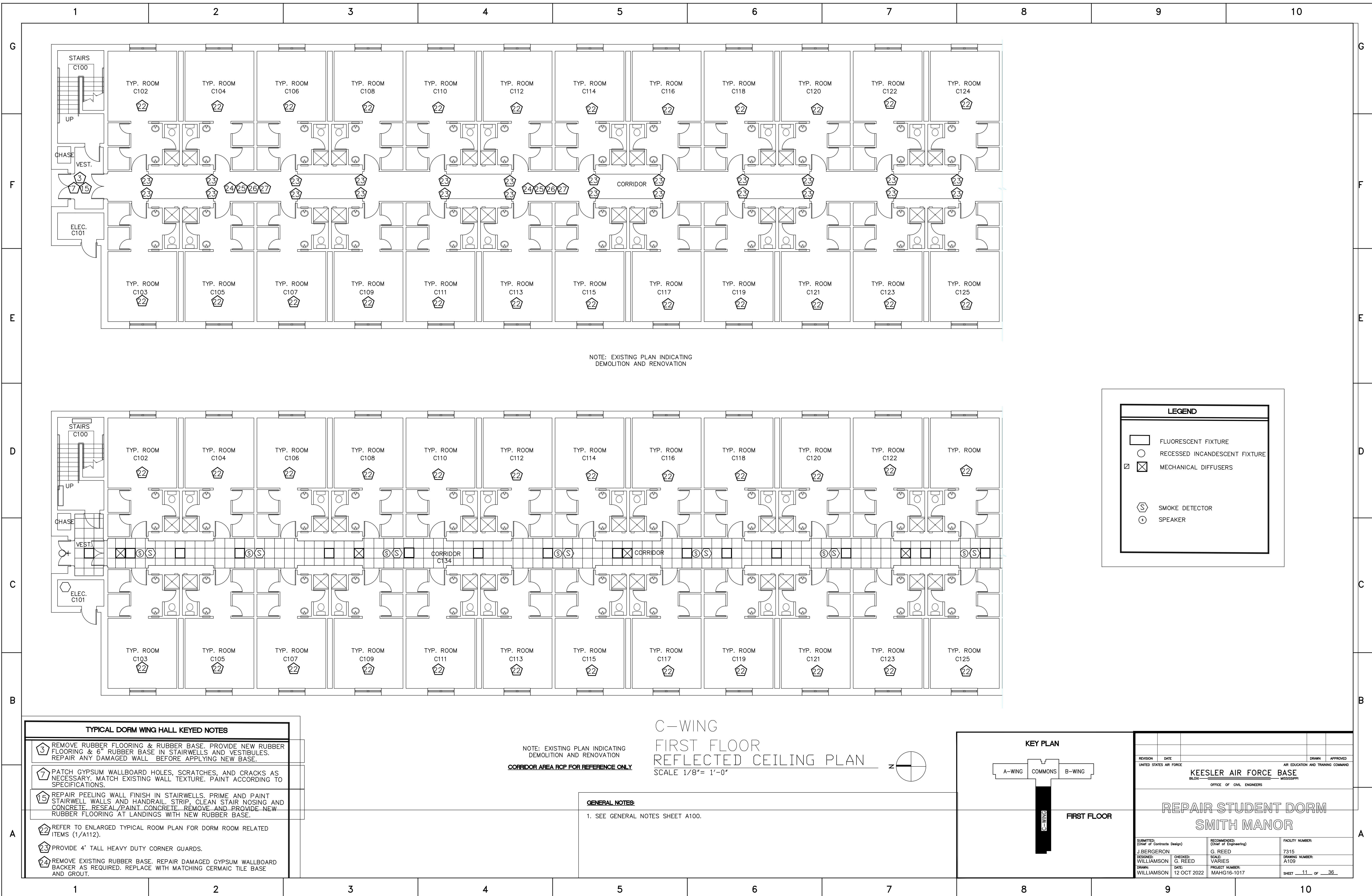


**B-WING
THIRD FLOOR
REFLECTED CEILING PLAN**
SCALE 1/8" = 1'-0"

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION
CORRIDOR AREA RCP FOR REFERENCE ONLY



| REVISION | DATE | DRAWN | APPROVED |
|--|---|---|--|
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE BLOOMINGVILLE, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| <small>SUBMITTED:</small> J. BERGERON <small>(Chief of Contracts Design)</small> | <small>RECOMMENDED:</small> G. REED <small>(Chief of Engineering)</small> | <small>FACILITY NUMBER:</small> 7315 | |
| <small>DESIGNED:</small> WILLIAMSON | <small>CHECKED:</small> G. REED | <small>SCALE:</small> VARIES | <small>DRAWING NUMBER:</small> A108 |
| <small>DRAWN:</small> WILLIAMSON | <small>DATE:</small> 12 OCT 2022 | <small>PROJECT NUMBER:</small> MAHG16-1017 | <small>SHEET</small> 10 <small>OF</small> 36 |



NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

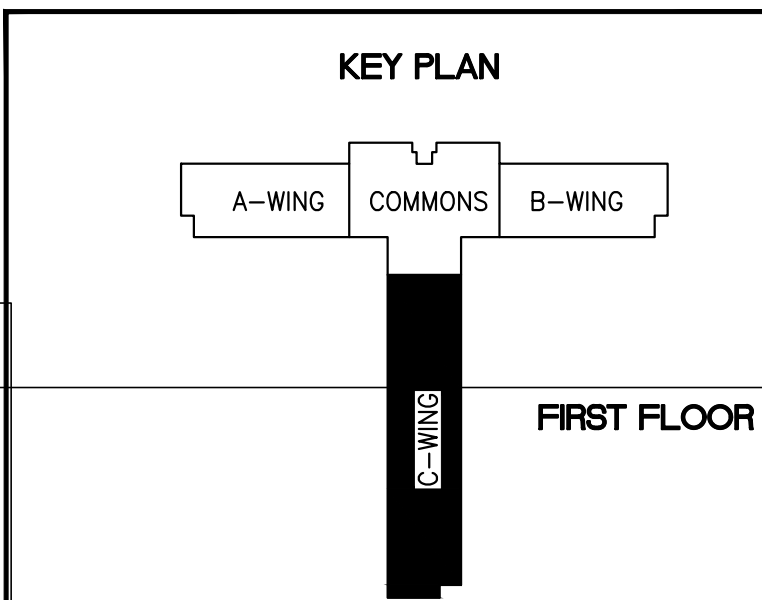
| LEGEND | |
|--------|-------------------------------|
| | FLUORESCENT FIXTURE |
| | RECESSED INCANDESCENT FIXTURE |
| | MECHANICAL DIFFUSERS |
| | SMOKE DETECTOR |
| | SPEAKER |

| TYPICAL DORM WING HALL KEYED NOTES | |
|------------------------------------|--|
| | REMOVE RUBBER FLOORING & RUBBER BASE. PROVIDE NEW RUBBER FLOORING & 6" RUBBER BASE IN STAIRWELLS AND VESTIBULES. REPAIR ANY DAMAGED WALL BEFORE APPLYING NEW BASE. |
| | PATCH GYPSUM WALLBOARD HOLES, SCRATCHES, AND CRACKS AS NECESSARY. MATCH EXISTING WALL TEXTURE. PAINT ACCORDING TO SPECIFICATIONS. |
| | REPAIR PEELING WALL FINISH IN STAIRWELLS. PRIME AND PAINT STAIRWELL WALLS AND HANDRAIL STRIP. CLEAN STAIR NOSING AND CONCRETE. RESEAL/PAINT CONCRETE. REMOVE AND PROVIDE NEW RUBBER FLOORING AT LANDINGS WITH NEW RUBBER BASE. |
| | REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS (1/A112). |
| | PROVIDE 4' TALL HEAVY DUTY CORNER GUARDS. |
| | REMOVE EXISTING RUBBER BASE. REPAIR DAMAGED GYPSUM WALLBOARD BACKER AS REQUIRED. REPLACE WITH MATCHING CERAMIC TILE BASE AND GROUT. |

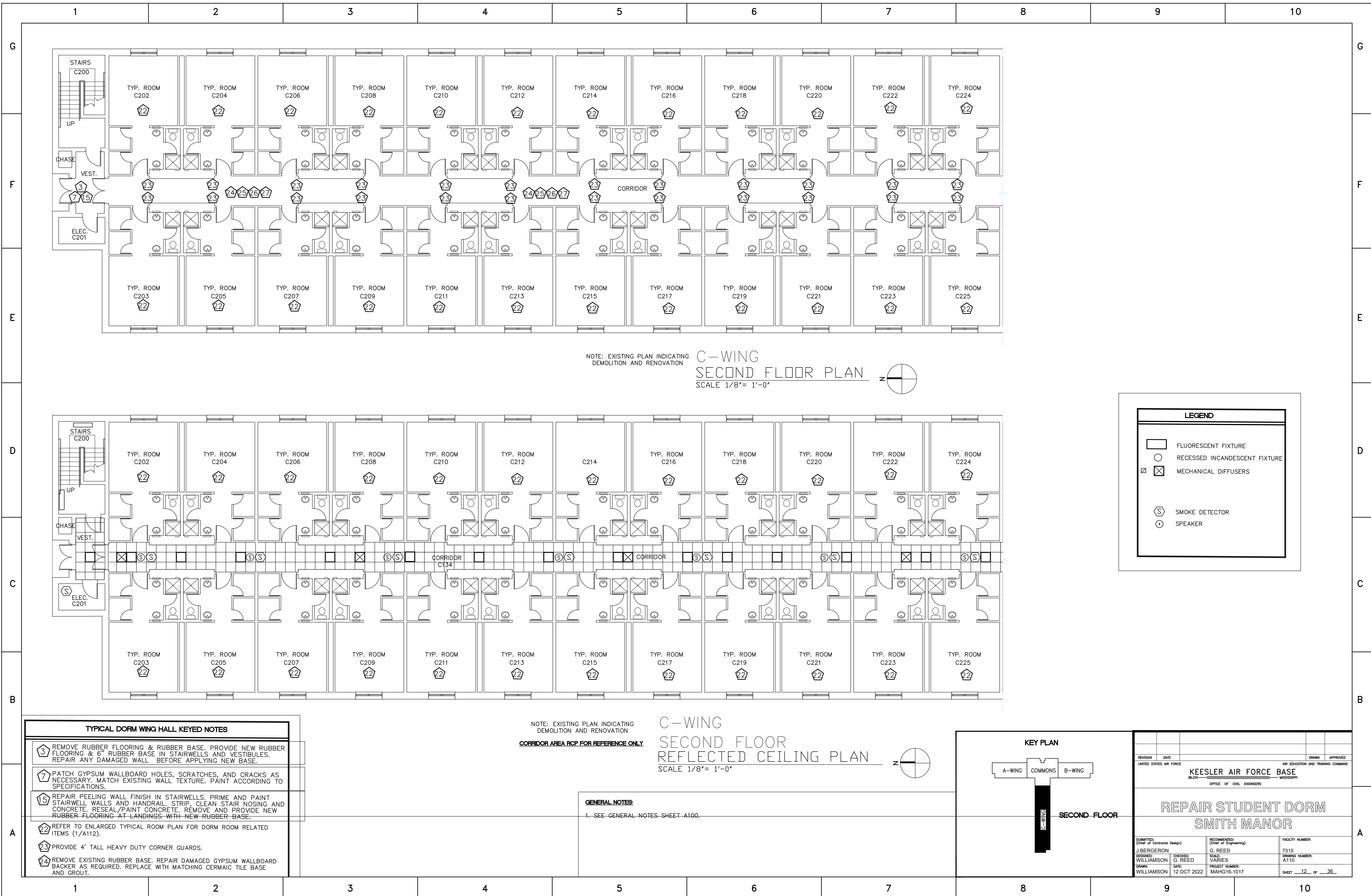
NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION
CORRIDOR AREA RCP FOR REFERENCE ONLY

C-WING
FIRST FLOOR
REFLECTED CEILING PLAN
SCALE 1/8" = 1'-0"

GENERAL NOTES
1. SEE GENERAL NOTES SHEET A100.



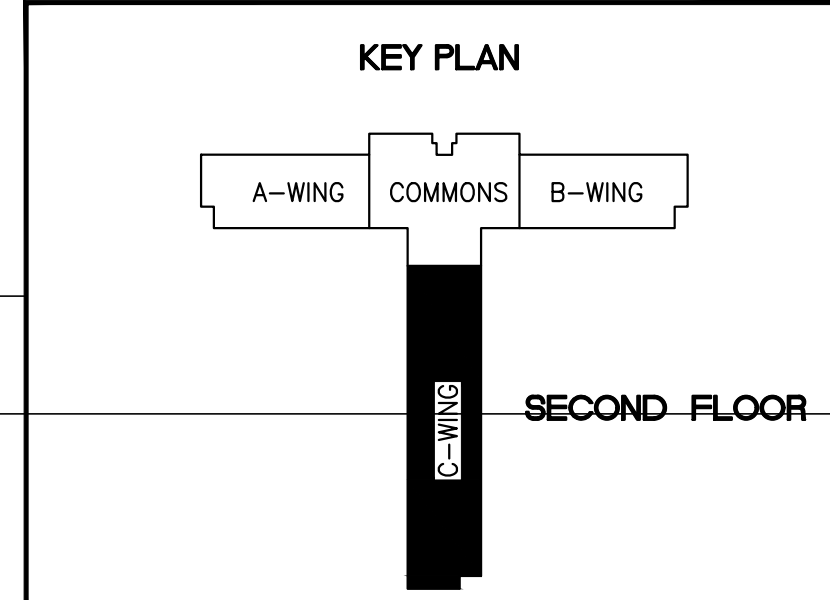
| REVISION | DATE | DRAWN | APPROVED |
|--|---|--------------------------------|-------------------------|
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOWN BY THE WIND MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| SUBMITTED: J. BERGERON (Chief of Contracts Design) | RECOMMENDED: G. REED (Chief of Engineering) | FACILITY NUMBER: 7315 | |
| DESIGNED: WILLIAMSON | CHECKED: G. REED | SCALE: VARIES | DRAWING NUMBER: A109 |
| DRAWN: WILLIAMSON | DATE: 12 OCT 2022 | PROJECT NUMBER: MAHG16-1017 | SHEET 11 OF 36 |



NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION
C-WING SECOND FLOOR PLAN
 SCALE 1/8" = 1'-0"

| LEGEND | |
|--------|-------------------------------|
| | FLUORESCENT FIXTURE |
| | RECESSED INCANDESCENT FIXTURE |
| | MECHANICAL DIFFUSERS |
| | SMOKE DETECTOR |
| | SPEAKER |

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION
C-WING SECOND FLOOR REFLECTED CEILING PLAN
 SCALE 1/8" = 1'-0"



| TYPICAL DORM WING HALL KEYED NOTES | |
|------------------------------------|---|
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| | REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS (1/A112). |
| | PROVIDE 4' TALL HEAVY DUTY CORNER GUARDS. |
| | REMOVE EXISTING RUBBER BASE. REPAIR DAMAGED GYPSUM WALLBOARD BACKER AS REQUIRED. REPLACE WITH MATCHING CERAMIC TILE BASE AND GROUT. |

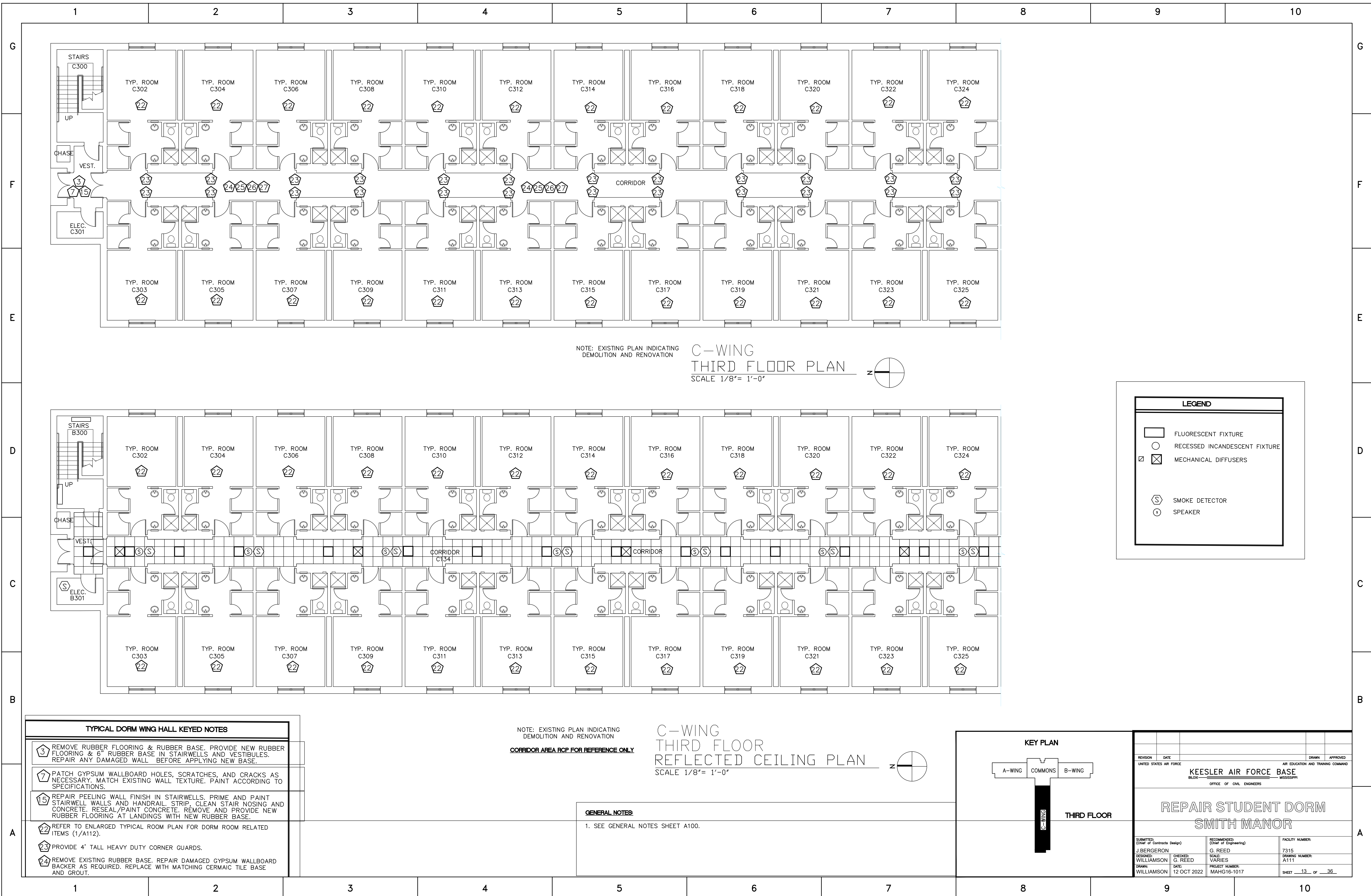
GENERAL NOTES:
 1. SEE GENERAL NOTES SHEET A100.

| REVISION | DATE | DRAWN | APPROVED |
|----------|------|-------|----------|
| | | | |

UNITED STATES AIR FORCE
KEESLER AIR FORCE BASE
 BLDG. _____ OFFICE OF CIVIL ENGINEERS MISSISSIPPI

REPAIR STUDENT DORM SMITH MANOR

| | | |
|--|---|--------------------------|
| SUBMITTED: J. BERGERON (Chief of Contracts Design) | RECOMMENDED: G. REED (Chief of Engineering) | FACILITY NUMBER: 7315 |
| DESIGNED: WILLIAMSON | CHECKED: G. REED | DRAWING NUMBER: A110 |
| DATE: 12 OCT 2022 | PROJECT NUMBER: MAHG16-1017 | SHEET 12 OF 36 |



NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

**C-WING
THIRD FLOOR PLAN**
SCALE 1/8" = 1'-0"

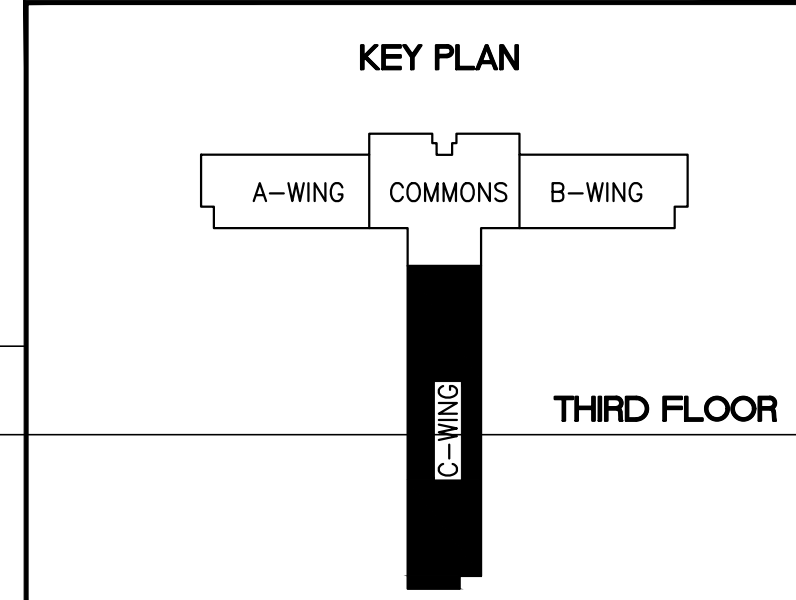
| LEGEND | |
|--------|-------------------------------|
| | FLUORESCENT FIXTURE |
| | RECESSED INCANDESCENT FIXTURE |
| | MECHANICAL DIFFUSERS |
| | SMOKE DETECTOR |
| | SPEAKER |

| TYPICAL DORM WING HALL KEYED NOTES | |
|------------------------------------|---|
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NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

**C-WING
THIRD FLOOR
REFLECTED CEILING PLAN**
SCALE 1/8" = 1'-0"

GENERAL NOTES:
1. SEE GENERAL NOTES SHEET A100.



| REVISION | DATE | DRAWN | APPROVED |
|----------|------|-------|----------|
| | | | |

UNITED STATES AIR FORCE
KEESLER AIR FORCE BASE
BLOOMINGVILLE, MISSISSIPPI
OFFICE OF CIVIL ENGINEERS

**REPAIR STUDENT DORM
SMITH MANOR**

| | | |
|--|---|--------------------------------|
| SUBMITTED: J. BERGERON (Chief of Contracts Design) | RECOMMENDED: G. REED (Chief of Engineering) | FACILITY NUMBER: 7315 |
| DESIGNED: WILLIAMSON | CHECKED: G. REED | DRAWING NUMBER: A111 |
| DATE: 12 OCT 2022 | SCALE: VARIES | PROJECT NUMBER: MAHG16-1017 |
| DRW: WILLIAMSON | DATE: 12 OCT 2022 | SHEET 13 OF 36 |

GENERAL NOTES:

1. CONTRACTOR 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 FIRE ALARM COMPONENTS, CEILING GRID, FIRE EXTINGUISHER CABINETS, SPRINKLER HEADS, HVAC GRILLS, AND OTHER EQUIPMENT OR FINISHES FROM DUST, PAINT, AND CONSTRUCTION DEBRIS DURING CONSTRUCTION. CONTRACTOR WILL REPLACE OR CLEAN IN PLACE ANY DAMAGED OR CONTAMINATED ITEMS.
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6. REMOVE AND DISPOSE OF ALL NAILS, BRACKETS, AND OTHER UNUSED ITEMS FROM WALL BEFORE PATCHING AND PAINTING.
7. REPLACE ANY MISSING OR DAMAGED ELECTRICAL FACE PLATES IN DORM ROOMS- MATCH EXISTING. REPLACE COMMON AREA FACEPLATES AS NOTED.
8. REMOVE SEALANT FROM ALL WINDOWS AND PREPARE FOR NEW SEALANT. APPLY NEW SEALANT IN A PROFESSIONAL WORKMAN LIKE MANNER.

TYPICAL DORM ROOM KEYED NOTES

- 29 TEST AND SECURE ALL TOILET ACCESSORIES IN BATHROOM AREAS (100% TOWEL BARS TO BE REATTACHED FOR BID PURPOSES). NOTIFY CONTRACTING OFFICER IN WRITING OF ANY BROKEN ACCESSORIES.
 - 30 REPLACE CARPET AND 4" RUBBER BASE THROUGHOUT WITH NEW CARPET TILE, 4" RUBBER BASE, RUBBER TRANSITION TO TILE FLOORING. INCLUDE 4" RUBBER BASE IN BATH/VESTIBULE AREA AND RUBBER TRANSITION BETWEEN CLOSET CARPET AND VESTIBULE TILE.
 - 31 REMOVE AND DISPOSE OF ALL NAILS, BRACKETS, AND OTHER UNUSED ITEMS FROM WALLS AND CEILINGS AND PATCH ANY HOLES OR DAMAGED GYPSUM WALL BOARD TO MATCH EXISTING FINISH. REPLACE ALL DAMAGED WALL PLATES, CEILING TRIMS, HVAC REGISTERS, AND LIGHTING TO REMAIN. REPAINT ALL WALLS, CEILINGS, AND DOOR FRAMES IN DORM ROOM AND BATH. SEE SPECIFICATIONS FOR PAINT TYPE.
 - 32 READJUST/REPAIR VANITY HINGES TO MAKE OPERABLE WITHOUT BINDING OR SAGGING. (20% FOR BID PURPOSES)
 - 33 REMOVE & REPLACE LAVATORY FAUCETS, DRAIN ASSEMBLIES, TRAPS, AND SUPPLY LINES TO STOP VALVES. REMOVE & REPLACE CULTURED MARBLE VANITY TOPS. CAULK AS NECESSARY TO ACHIEVE A WATER-TIGHT SEAL. REPLACE POP-UP DRAIN TO STRAINER TYPE.
 - 34 STRIP AND CLEAN TILE FLOOR, WALLS, & GROUT.
 - 35 SEAL TILE FLOOR, WALLS AND GROUT (TO INCLUDE ALL NEW TILE AND GROUT).
 - 36 REMOVE EXISTING SHOWER TILE SURROUND, TILE SHOWER PAN (TO INCLUDE CURB) & WALL BOARD DOWN TO METAL STUDS. PROVIDE NEW METAL STUDS AS NECESSARY. CONCRETE BACKER BOARD, MIXING VALVE AND ALL PIPING, SHOWER HEAD ASSY. AND CUSTOM CULTURED MARBLE SHOWER ASSY. WITH INTEGRAL 8" HIGH FIBERGLASS PAN. MONOLITHIC SIDES WITH MAX 3 SEAMS OVERALL, AND SHOWER DRAIN ASSY. (MATCH EXIST. SHWR DRAIN PIPE SIZE).SEE DTLS. 3/4 A400.
 - 37 REMOVE & REPLACE 36 INCH "GLASS" SHOWER DOOR.
 - 38 REMOVE CERAMIC SOAP AND TOOTHBRUSH HOLDERS. REPAIR WALL AS NECESSARY TO ACHIEVE A LEVEL 4 FINISH.
 - 39 REMOVE & REPLACE ALL LIGHT FIXTURES IN VESTIBULE, CLOSETS, SHOWER AREA & BATH/VANITY AREA.
 - 40 REFINISH DOORS TO MATCH EXISTING COLOR AND FINISH.
 - 41 CLEAN ALL TOILETS.
 - 42 REMOVE AND REPLACE ACCESS HATCH. SEE DETAIL 5/A112. NOTE: FOLLOWING THE INSTALLATION OF THE NEW VAV BOXES, THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE CEILING ACCESS PANELS WITH THE VAV BOXES TO PROVIDE EASY AND CLEAR ACCESS TO THE VAV BOX AND THE CONTROLS, WITH APPROVAL FROM THE CONTRACTING OFFICER.
- COORDINATE THE LOCATION OF THE CEILING ACCESS PANELS WITH THE EXISTING CEILING LIGHT FIXTURE. IN ORDER TO LOCATE THE ACCESS PANELS FOR VAV BOX ACCESS, SOME LIGHT FIXTURES WILL NEED TO BE RELOCATED WITH APPROVAL FROM THE CONTRACTING OFFICER (ASSUME 35%).
- 43 REMOVE AND REPLACE DAMAGED WINDOW SEALANT AROUND WINDOWS.

DOOR & FRAME SCHEDULE

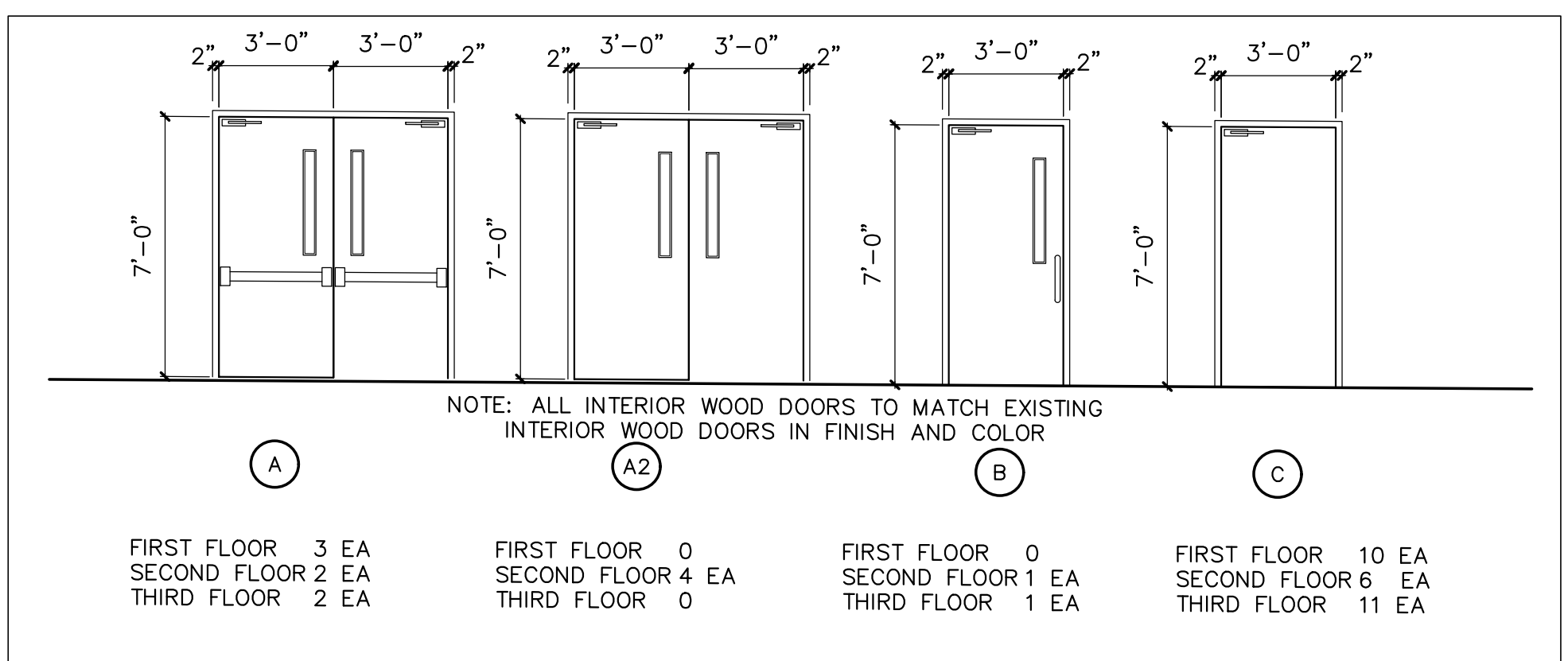
| DOOR TYPE | DOORS | | | | | | FRAMES | | | | | | FIRE RATING | NOTES |
|-----------|-------|--------|--------|------|----------|--------|---------|------|-------------|--------------|-------------|---|-------------|--|
| | SIZE | | | TYPE | MATERIAL | FINISH | DETAILS | | FRAME DEPTH | HARDWARE SET | FIRE RATING | | | |
| | WIDTH | HEIGHT | THICK. | | | | JAMB | HEAD | | | | | | |
| A | 6'-0" | 7'-0" | 1 3/4" | A | WD | STAIN | A | HM | PAINT | - | - | - | - | EXISTING DOORS TO BE STAINED AND EXISTING FRAMES TO BE PAINTED ONLY. |
| A2 | 6'-0" | 7'-0" | 1 3/4" | A2 | WD | STAIN | A2 | HM | PAINT | - | - | - | - | EXISTING DOORS TO BE STAINED AND EXISTING FRAMES TO BE PAINTED ONLY. |
| B | 3'-0" | 7'-0" | 1 3/4" | B | WD | STAIN | B | HM | PAINT | - | - | - | - | EXISTING DOORS TO BE STAINED AND EXISTING FRAMES TO BE PAINTED ONLY. |
| C | 3'-0" | 7'-0" | 1 3/4" | C | WD | STAIN | C | HM | PAINT | - | - | - | - | EXISTING DOORS TO BE STAINED AND EXISTING FRAMES TO BE PAINTED ONLY. |

| QTY | NOMINAL SIZE | | A | | B | | C | | D | | E | | F | | LATCH QTY |
|-----|--------------|-----------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|-----------|
| | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm | |
| | 6 X 6 | 152 X 152 | 6.00 | 152 | 6.00 | 152 | 8.57 | 218 | 8.57 | 218 | 6.12 | 155 | 6.12 | 155 | 1 |
| | 8 X 8 | 202 X 202 | 8.00 | 203 | 8.00 | 203 | 10.57 | 268 | 10.57 | 268 | 8.12 | 206 | 8.12 | 206 | 1 |
| | 10 X 10 | 254 X 254 | 10.00 | 254 | 10.00 | 254 | 12.57 | 319 | 12.57 | 319 | 10.12 | 257 | 10.12 | 257 | 1 |
| | 12 X 12 | 305 X 305 | 12.00 | 305 | 12.00 | 305 | 14.57 | 370 | 14.57 | 370 | 12.12 | 308 | 12.12 | 308 | 1 |
| | 14 X 14 | 355 X 355 | 14.00 | 356 | 14.00 | 356 | 16.57 | 421 | 16.57 | 421 | 14.12 | 359 | 14.12 | 359 | 1 |
| | 16 X 16 | 406 X 406 | 16.00 | 406 | 16.00 | 406 | 18.57 | 472 | 18.57 | 472 | 16.12 | 409 | 16.12 | 409 | 1 |
| | 18 X 18 | 457 X 457 | 18.00 | 457 | 18.00 | 457 | 20.57 | 522 | 20.57 | 522 | 18.12 | 460 | 18.12 | 460 | 1 |
| | 22 X 22 | 560 X 560 | 22.00 | 559 | 22.00 | 559 | 24.57 | 624 | 24.57 | 624 | 22.12 | 562 | 22.12 | 562 | 1 |
| | 24 X 24 | 610 X 610 | 24.00 | 610 | 24.00 | 610 | 26.57 | 675 | 26.57 | 675 | 24.12 | 613 | 24.12 | 613 | 1 |
| | 24 X 36 | 610 X 914 | 36.00 | 914 | 24.00 | 610 | 26.57 | 675 | 38.57 | 980 | 24.12 | 613 | 36.12 | 917 | 2 |
| | 30 X 30 | 762 X 762 | 30.00 | 762 | 30.00 | 762 | 32.57 | 827 | 32.57 | 827 | 30.12 | 765 | 30.12 | 765 | 2 |
| | 36 X 36 | 914 X 914 | 36.00 | 914 | 36.00 | 914 | 38.57 | 980 | 38.57 | 980 | 36.12 | 917 | 36.12 | 917 | 2 |

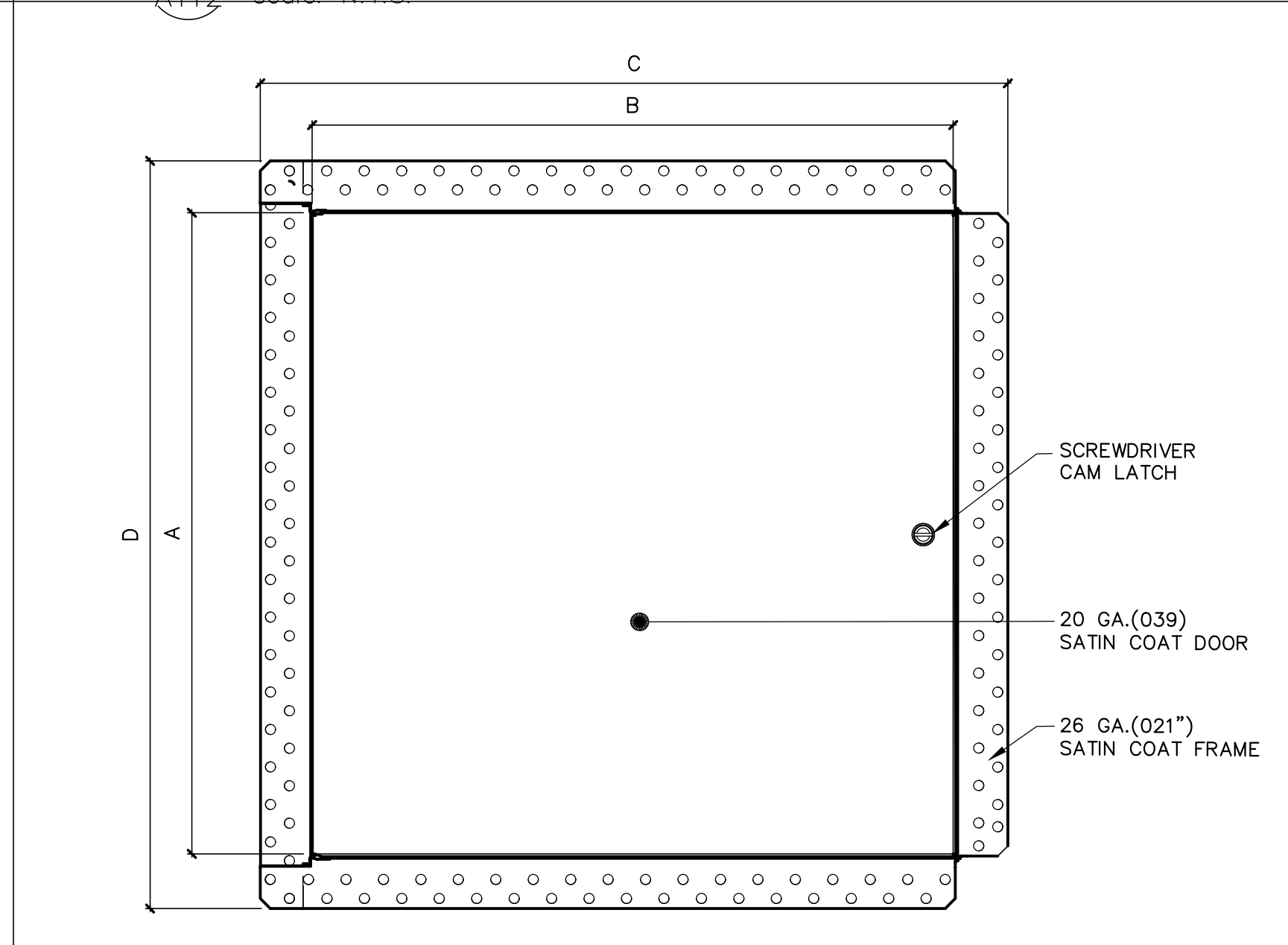
GC. TO USE THIS TABLE TO ACCOMMODATE A 36"X36" CLEAR HATCH OPENING

4 DOOR & FRAME SCHEDULE
A112 scale: N.T.S.

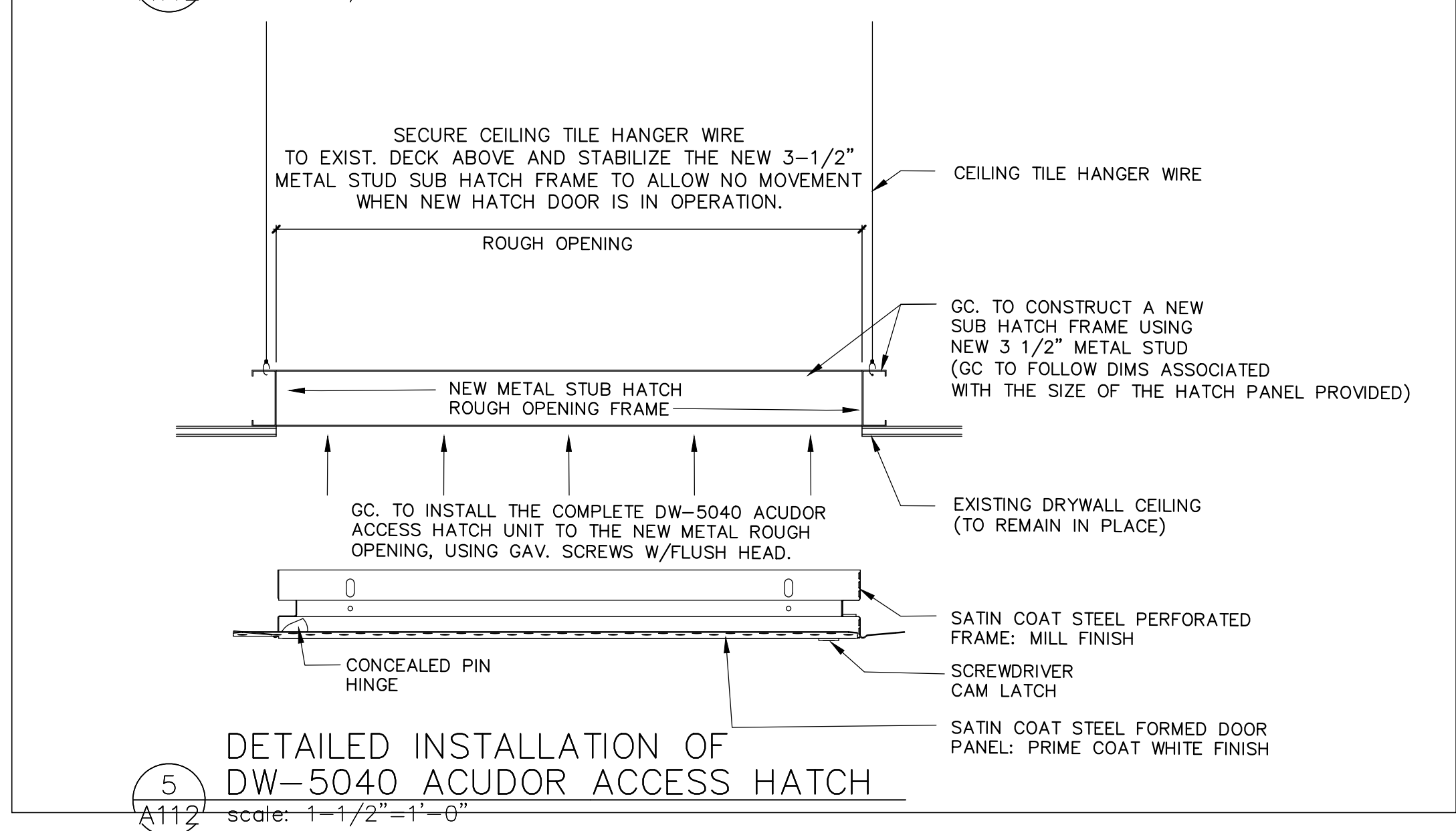
7 ACCESS HATCH DIMENTION TABLE
A112 scale: N.T.S.



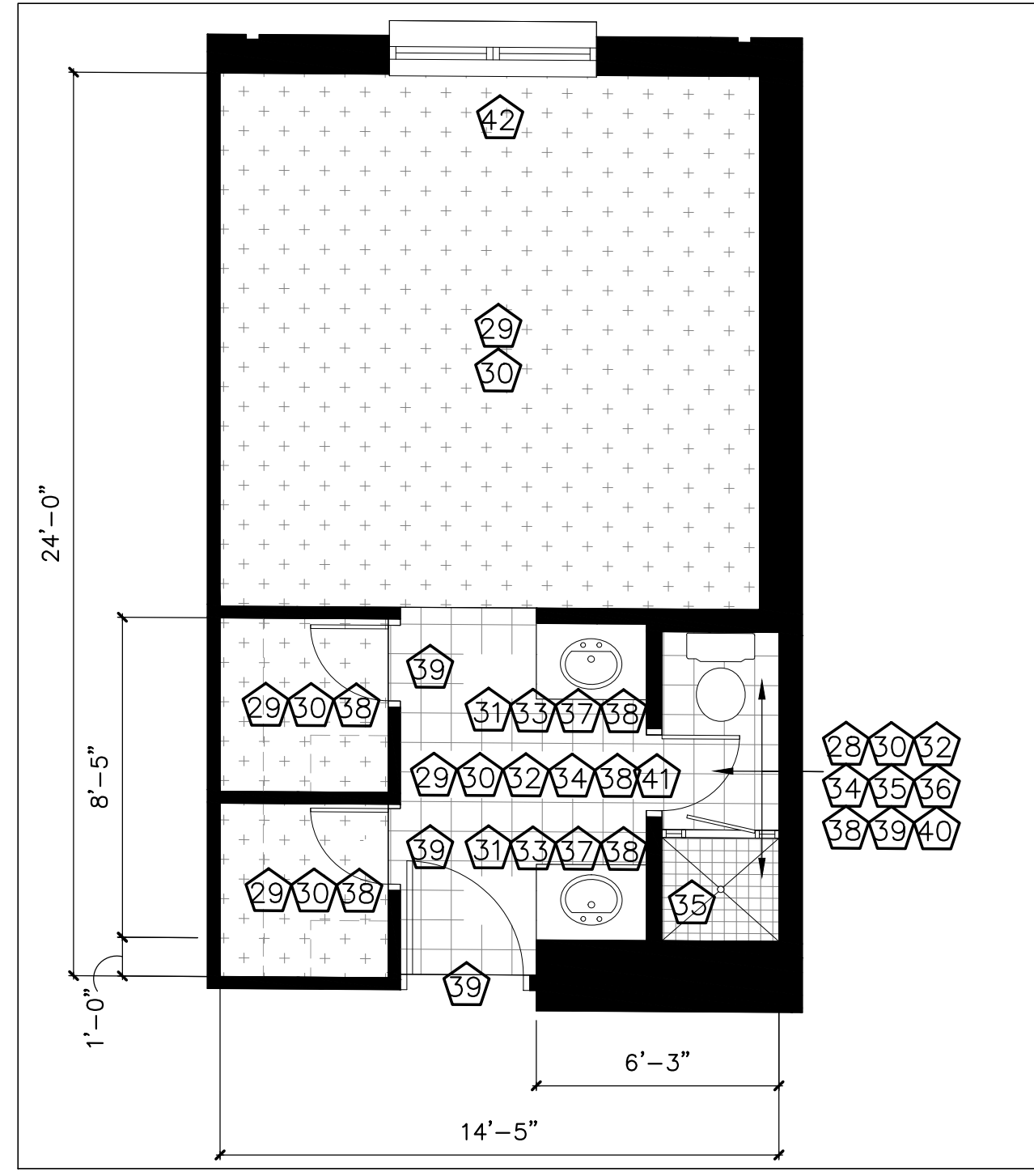
3 DOOR ELEVATIONS
A112 scale: 1/4"=1'-0"



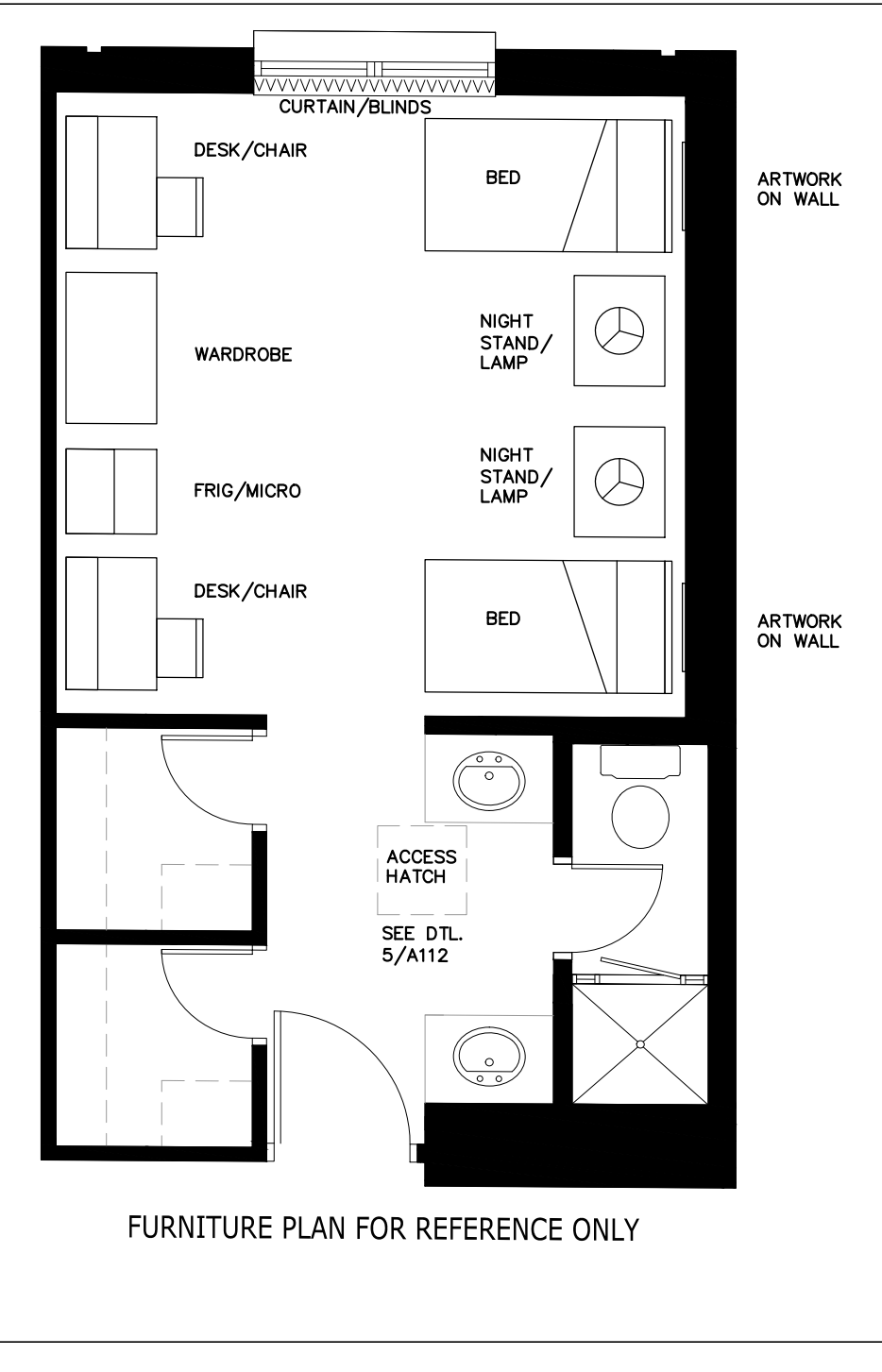
6 SATIN COAT FRAME PLAN VIEW
A112 scale: 1-1/2"=1'-0"



5 DETAILED INSTALLATION OF DW-5040 ACUDOR ACCESS HATCH
A112 scale: 1-1/2"=1'-0"

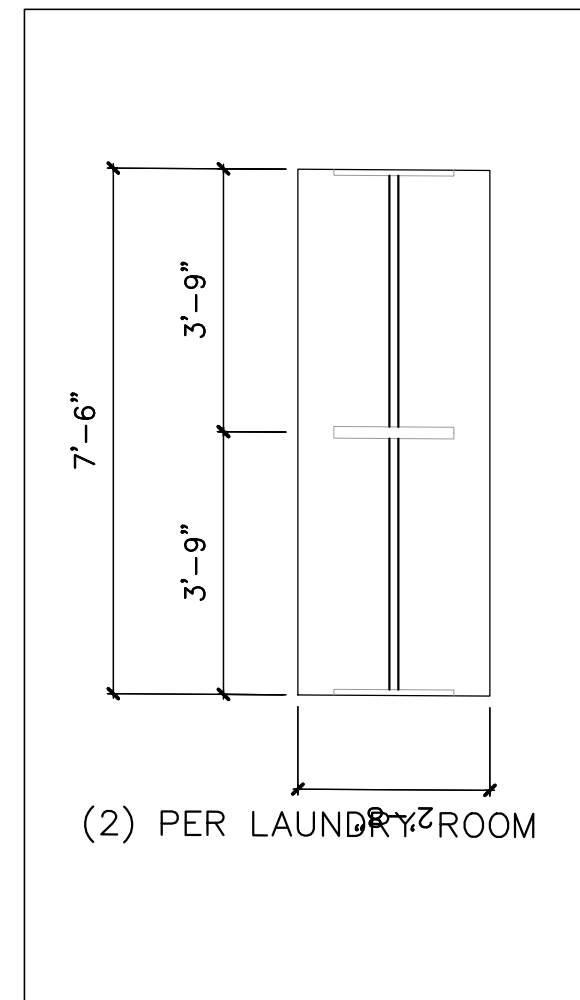


1 TYPICAL DORM ROOM FLOOR PLAN
A112 scale: 1/4"=1'-0"

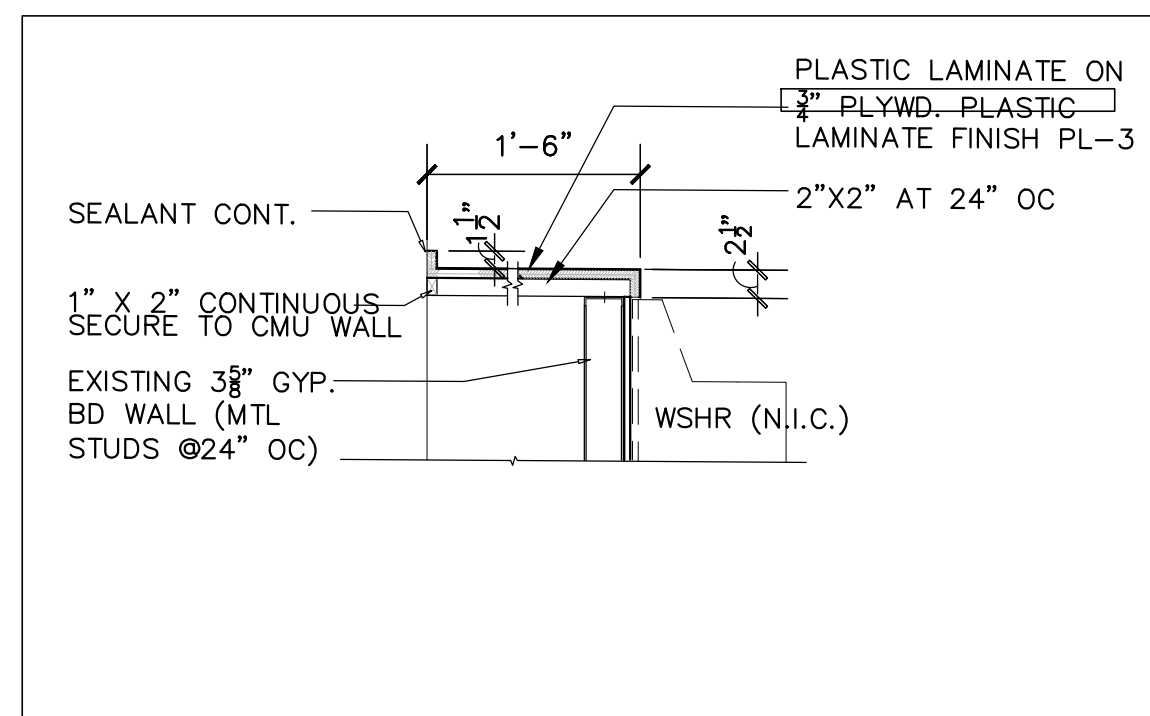


2 TYPICAL FURNITURE PLAN FOR REFERENCE ONLY
A112 scale: 1/4"=1'-0"

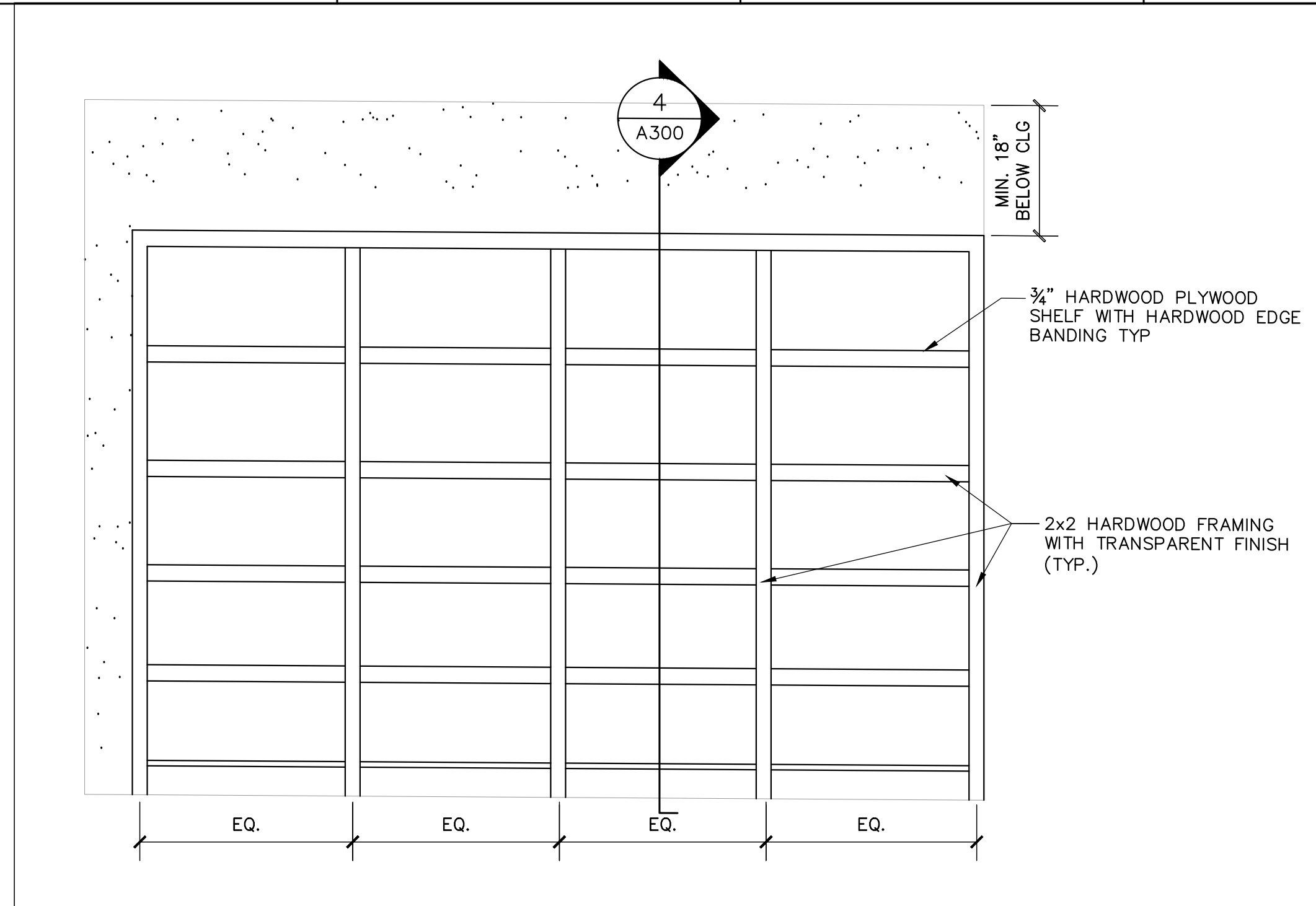
| REVISION | DATE | BY | APPROVED |
|---|---|---|---|
| UNITED STATES AIR FORCE KEESLER AIR FORCE BASE BLOOMINGTON, MISSISSIPPI OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| SUBMITTED: J. BERGERON DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: A112 SHEET 14 OF 38 |



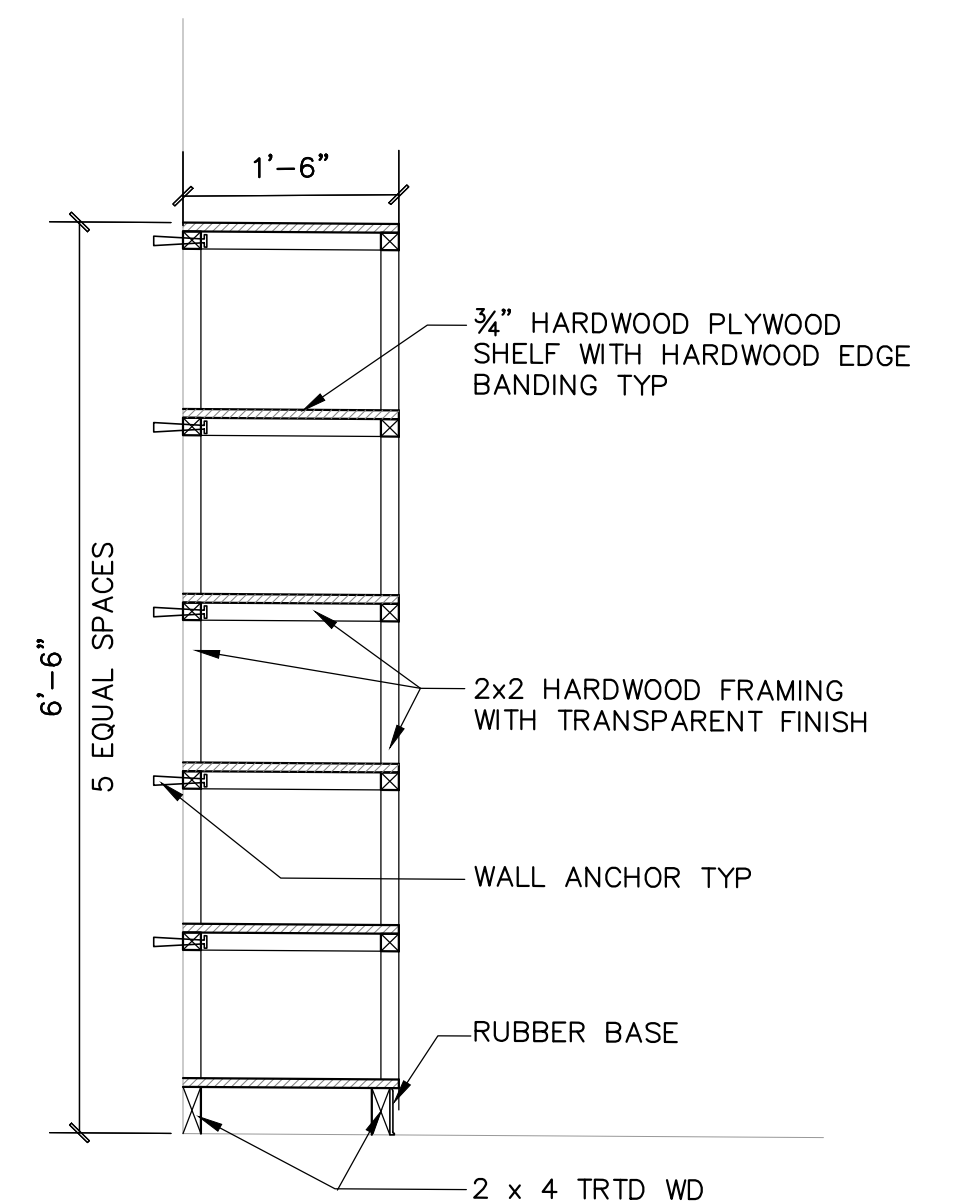
1
A300
FOLDING TABLE
PLAN
scale: 3/8"=1'-0"



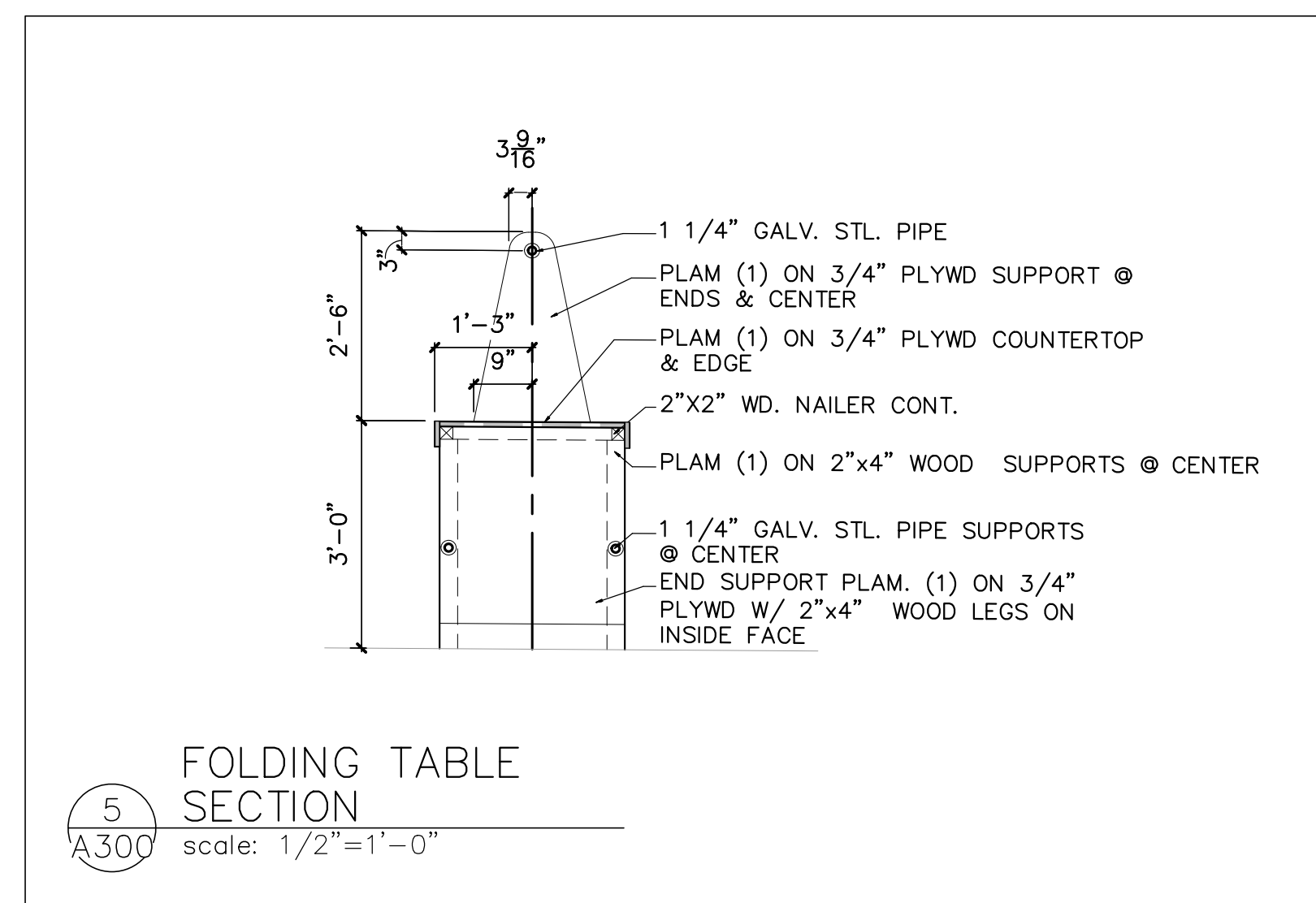
2
A300
LAUNDRY
COUNTER
SECTION
scale: 3/4"=1'-0"



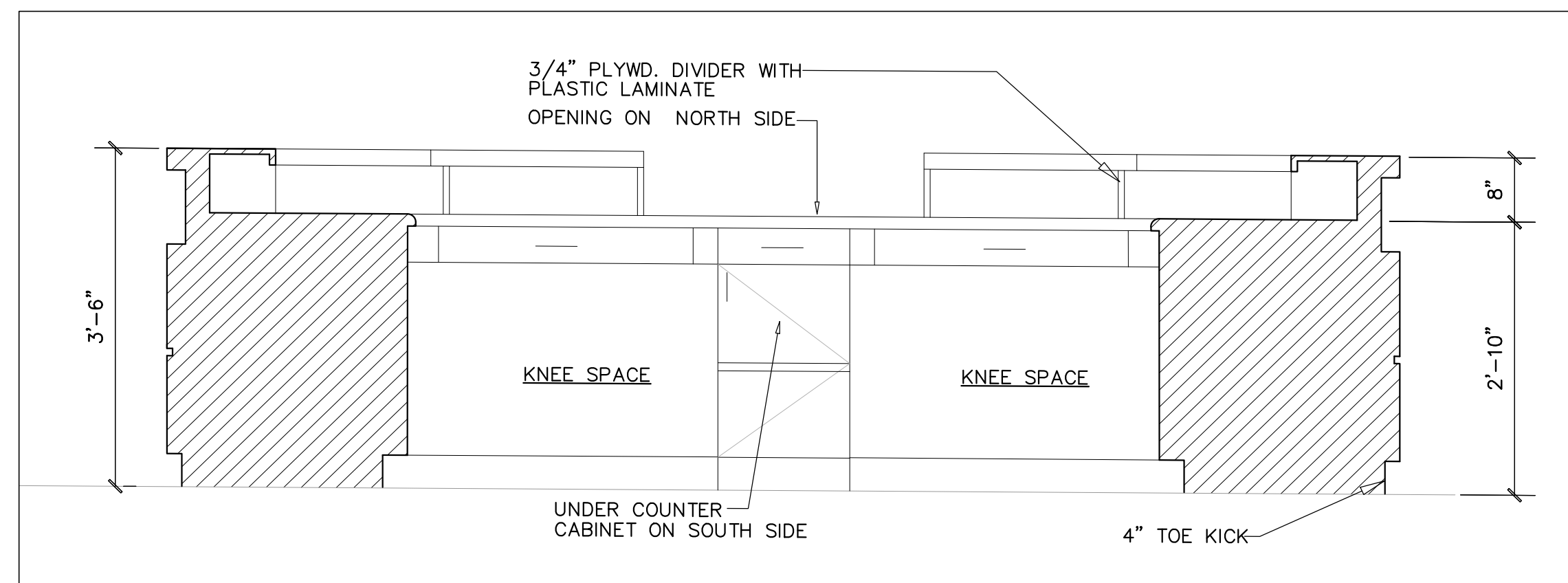
3
A300
TYPICAL HOUSEKEEPING ROOM
ELEVATION
scale: 3/4"=1'-0"



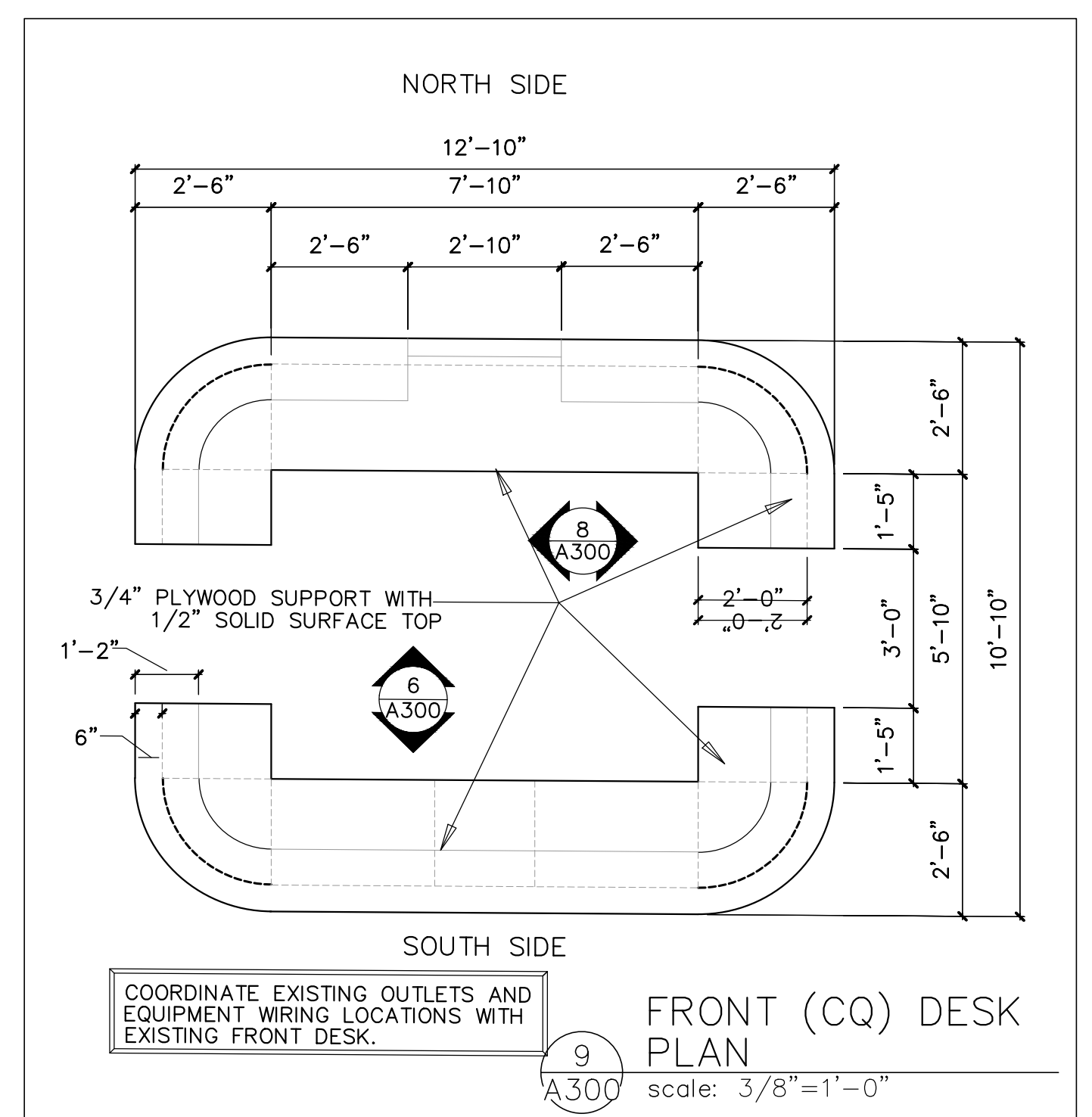
4
A300
HOUSEKEEPING
SHELVEING
DETAIL
scale: 3/4"=1'-0"



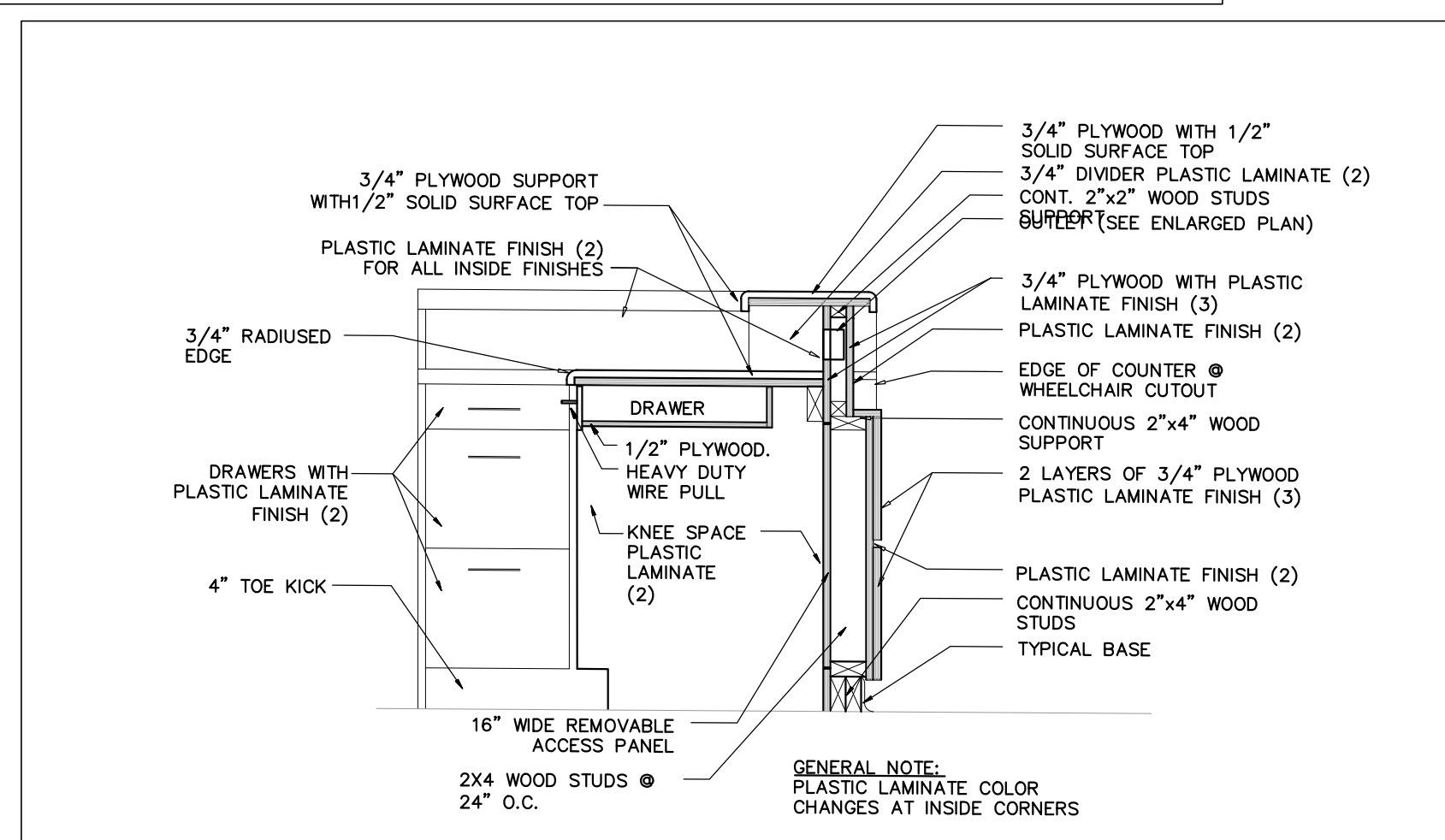
5
A300
FOLDING TABLE
SECTION
scale: 1/2"=1'-0"



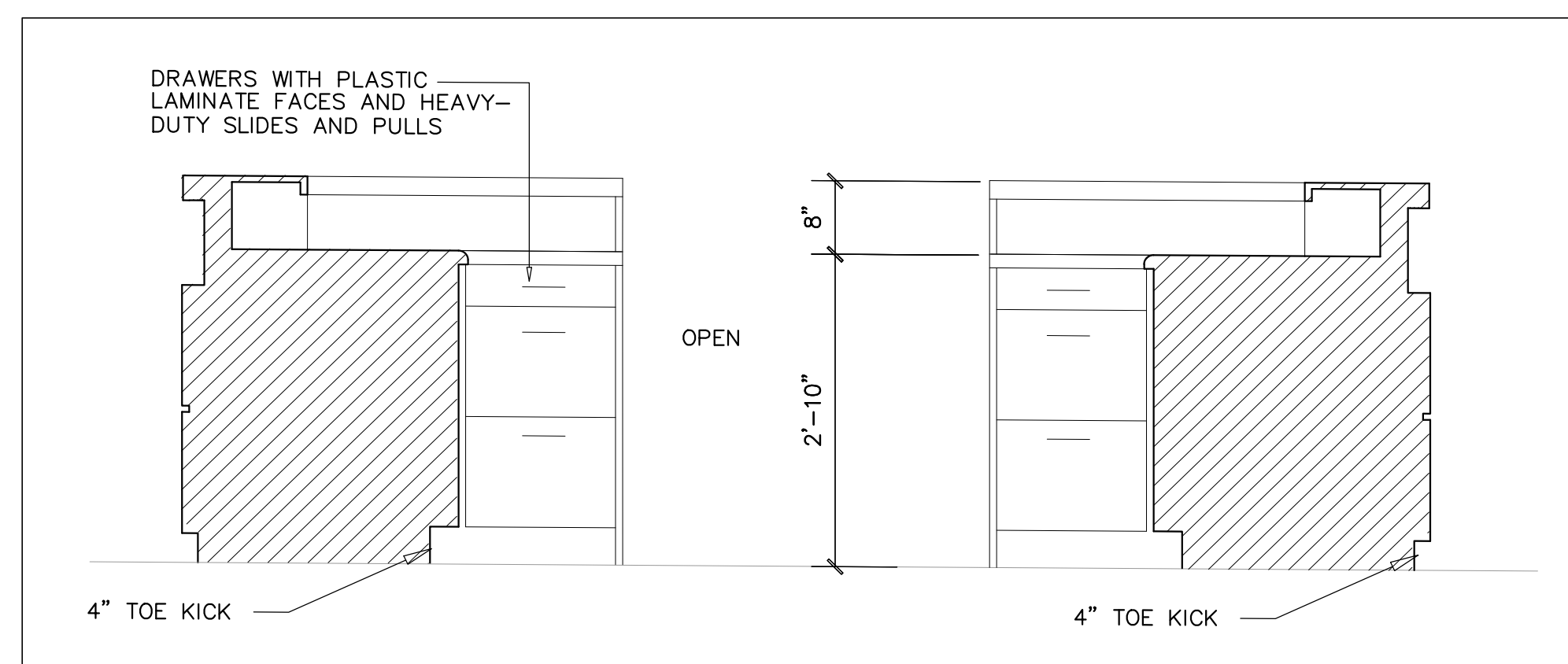
6
A300
NORTH/SOUTH DESK INTERIOR
ELEVATION
scale: 3/4"=1'-0"



8
A300
FRONT (CQ) DESK
PLAN
scale: 3/8"=1'-0"



7
A300
EAST/WEST DESK INTERIOR
SECTION
scale: 3/4"=1'-0"



8
A300
EAST/WEST DESK INTERIOR
ELEVATION
scale: 3/4"=1'-0"

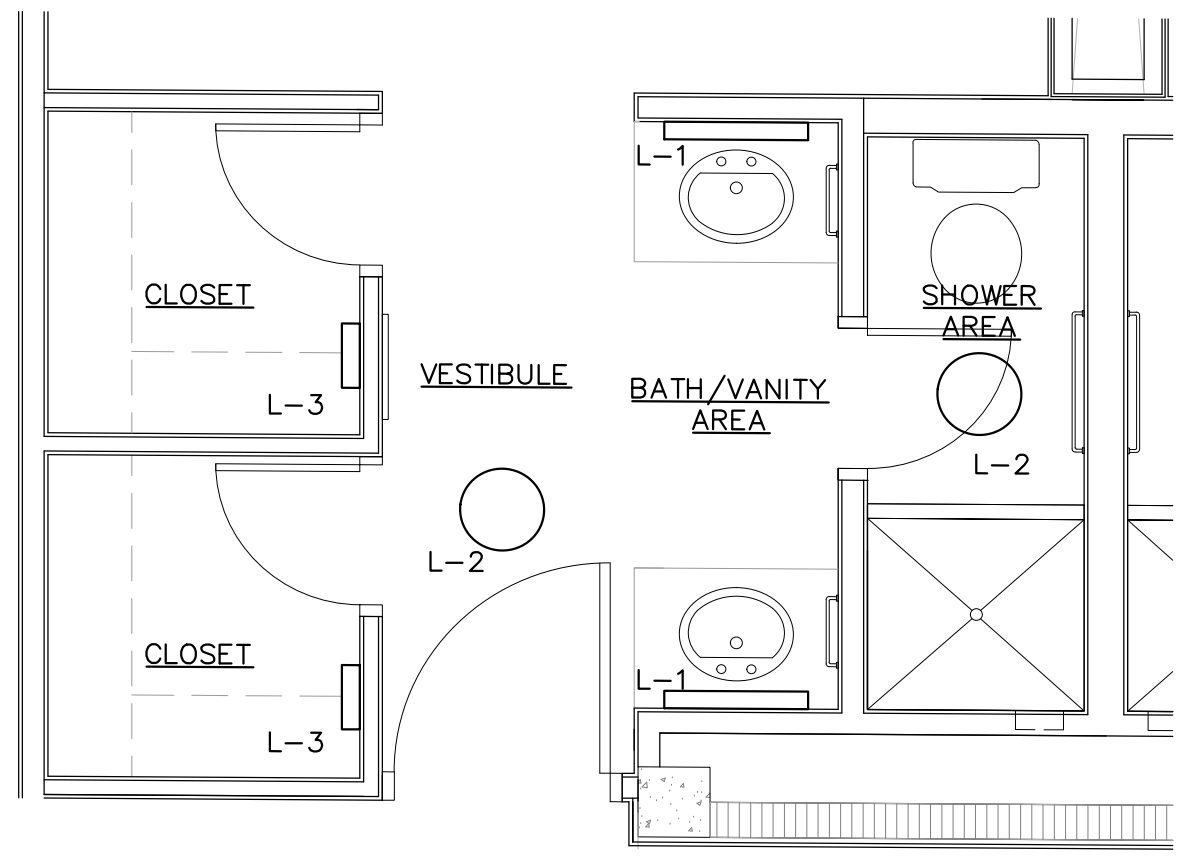
| REVISION | DATE | DRAWN | APPROVED |
|--|---|---|---|
| UNITED STATES AIR FORCE KEESLER AIR FORCE BASE MISSISSIPPI OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| SUBMITTED: J. BERGERON DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: A300 SHEET 15 OF 38 |

| TYP. DORM ROOM LIGHT FIXTURE LEGEND | |
|-------------------------------------|-------------------------------------|
| L-1 | AFX LIGHTING VSC217E8 OR EQUAL |
| L-2 | PROGRESS LIGHTING P7378-30 OR EQUAL |
| L-3 | PROGRESS LIGHTING P7376-30 OR EQUAL |

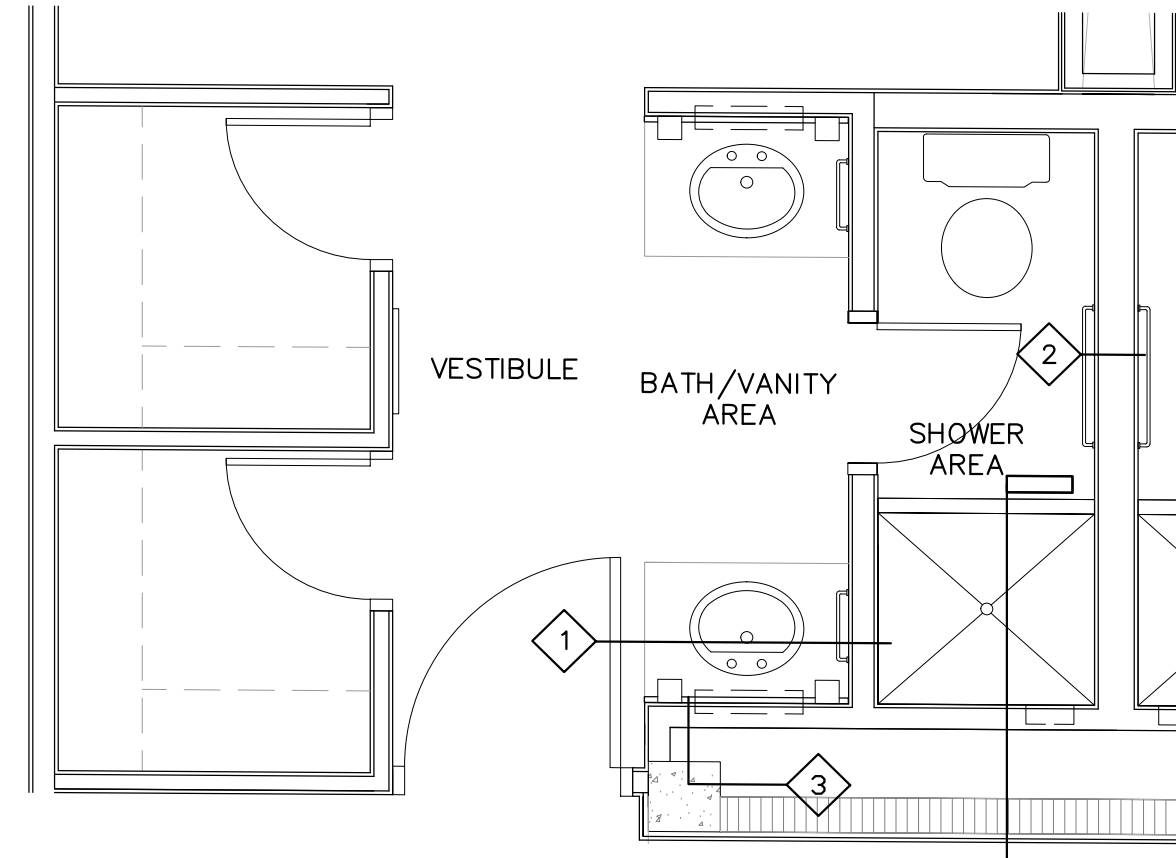
| EXISTING WALL TYPES | |
|---------------------|---|
| 1. | 3/8" MTL. STUDS @ 24" O.C. WITH 5/8" GYP.BD. BOTH SIDES TO 6" ABOVE CEILING. UNRATED. |
| 2. | 6" MTL. STUDS @ 24" O.C. WITH 5/8" "TYPE X" GYP. BD. 1 HOUR RATED U.L. #465 SIM. |
| 3. | 3/8" MTL. STUDS @ 24" O.C. WITH 5/8" "TYPE X" GYP. BD. ONE GYP. BD. TO DECK ABOVE. UNRATED. |

GENERAL NOTES:

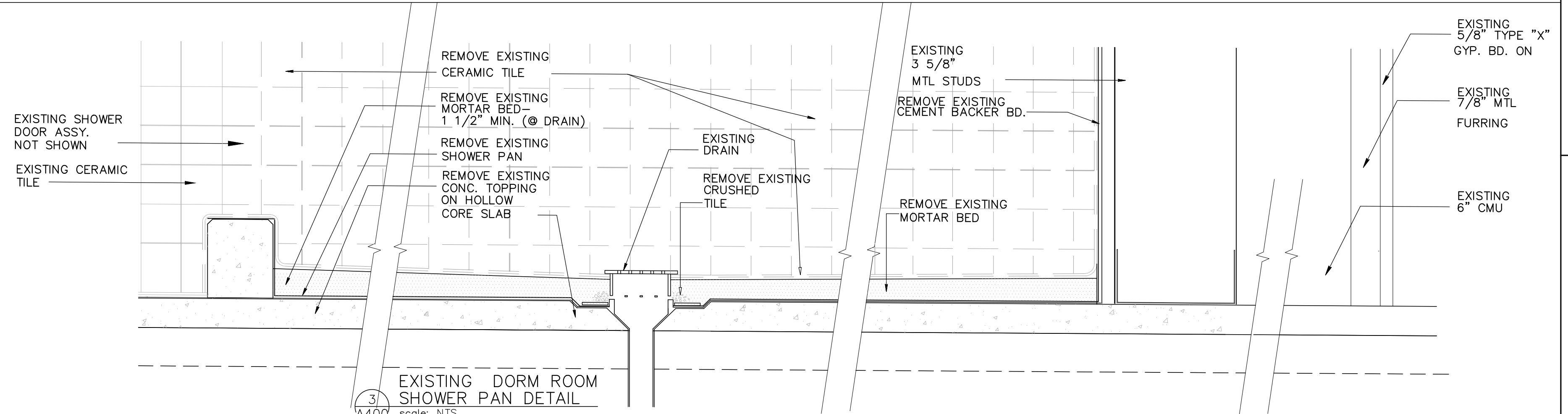
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BID AND START OF CONSTRUCTION. NOTIFY CONTRACTING OFFICER OF ANY CONDITIONS DETRIMENTAL TO THE COMPLETION OF THE WORK AS DESIGNED.
- PROTECT ALL FIRE ALARM COMPONENTS, CEILING GRID, FIRE EXTINGUISHER CABINETS, SPRINKLER HEADS, HVAC GRILLS, AND OTHER EQUIPMENT OR FINISHES FROM DUST, PAINT, AND CONSTRUCTION DEBRIS DURING CONSTRUCTION. CONTRACTOR WILL REPLACE OR CLEAN IN PLACE ANY DAMAGED OR CONTAMINATED ITEMS.
- CONFINE ALL WORK TO SPECIFIC AREAS AS DESIGNATED IN THE SCOPE OF WORK AND SCHEDULE. WORK SHALL BE COMPLETED IN ONE SECTION BEFORE MOVING ON TO THE NEXT SECTION.
- CONTRACTING OFFICER TO SELECT PAINT COLOR AND SHEEN FROM MANUFACTURER'S STANDARD COLORS FOR ALL SURFACES TO BE PAINTED. WALLS, CEILINGS, HANDRAILS, DOOR FRAMES TO BE PAINTED IN ROOMS BEING WORKED IN. DOORS TO BE PAINTED AS CALLED FOR.
- REPLACE CEILING TILES SUPPORTING EXIT SIGNAGE WITH 3/4" WHITE MELAMINE FACED PANELING. FASTEN "EXIT" SIGNAGE TO MELAMINE PANEL.
- REMOVE AND DISPOSE OF ALL NAILS, BRACKETS, AND OTHER UNUSED ITEMS FROM WALL BEFORE PATCHING AND PAINTING.
- REPLACE ANY MISSING OR DAMAGED ELECTRICAL FACE PLATES IN DORM ROOMS- MATCH EXISTING. REPLACE COMMON AREA FACEPLATES AS NOTED.
- REMOVE SEALANT FROM ALL WINDOWS AND PREPARE FOR NEW SEALANT. APPLY NEW SEALANT IN A PROFESSIONAL WORKMAN LIKE MANNER.



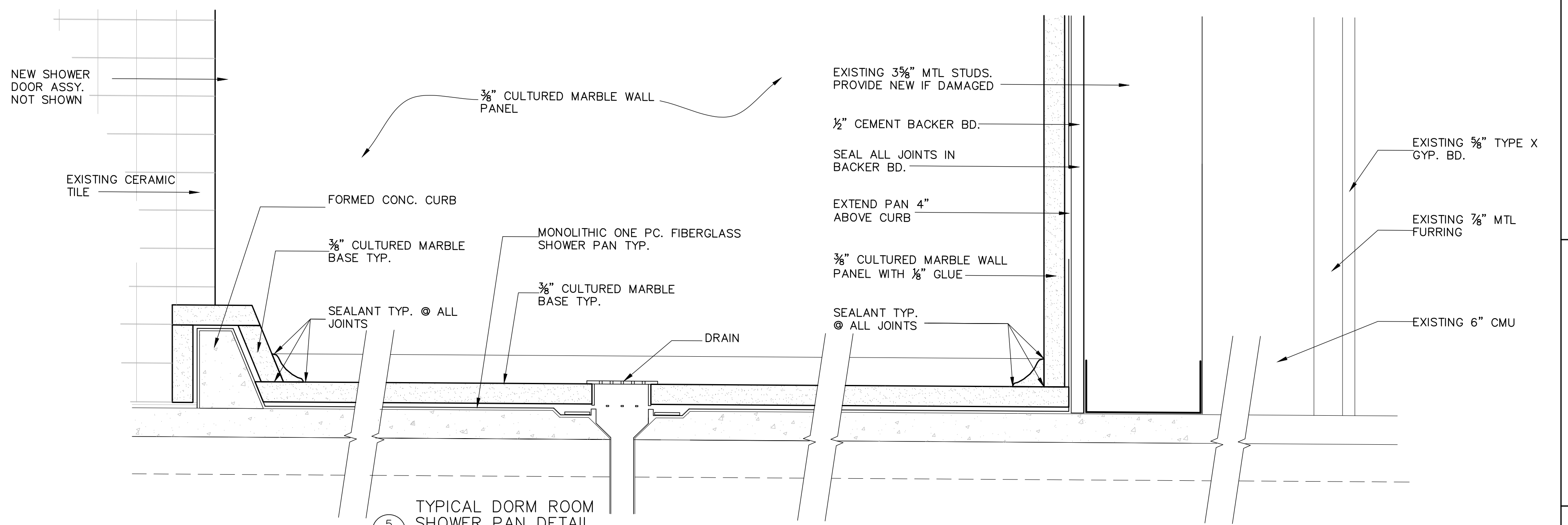
1 TYPICAL DORM ROOM LIGHTING PLAN
A400 scale: 3/8"=1'-0"



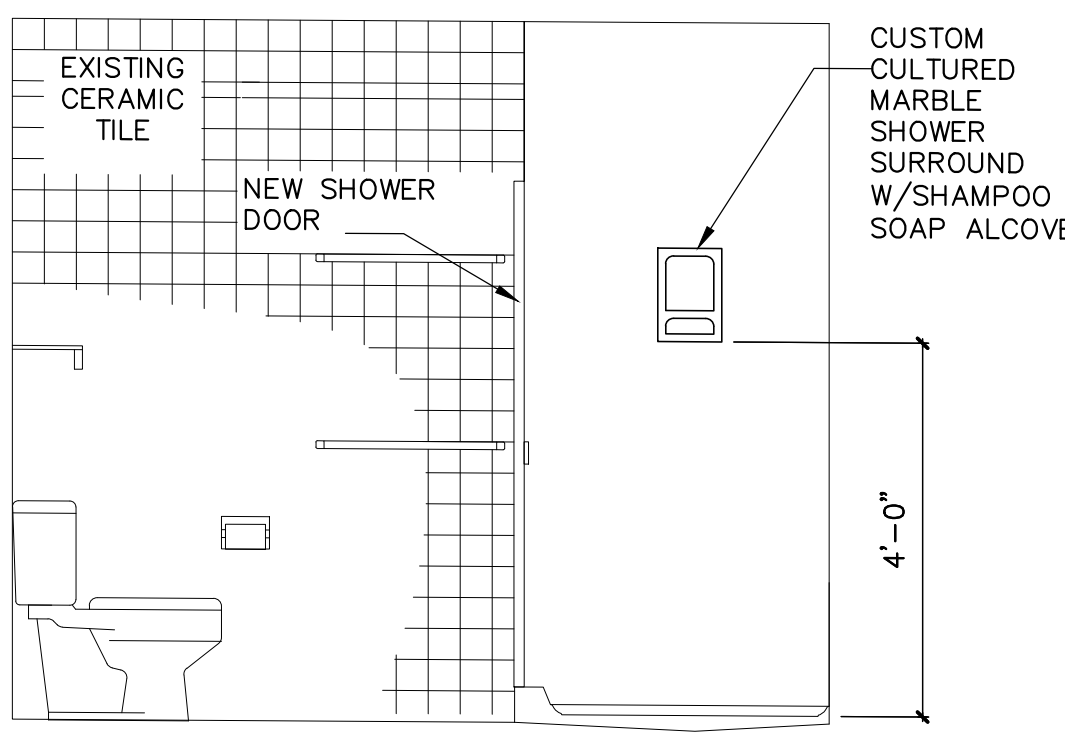
2 EXISTING TYPICAL DORM ROOM WALL TYPE
A400 scale: 3/8"=1'-0"



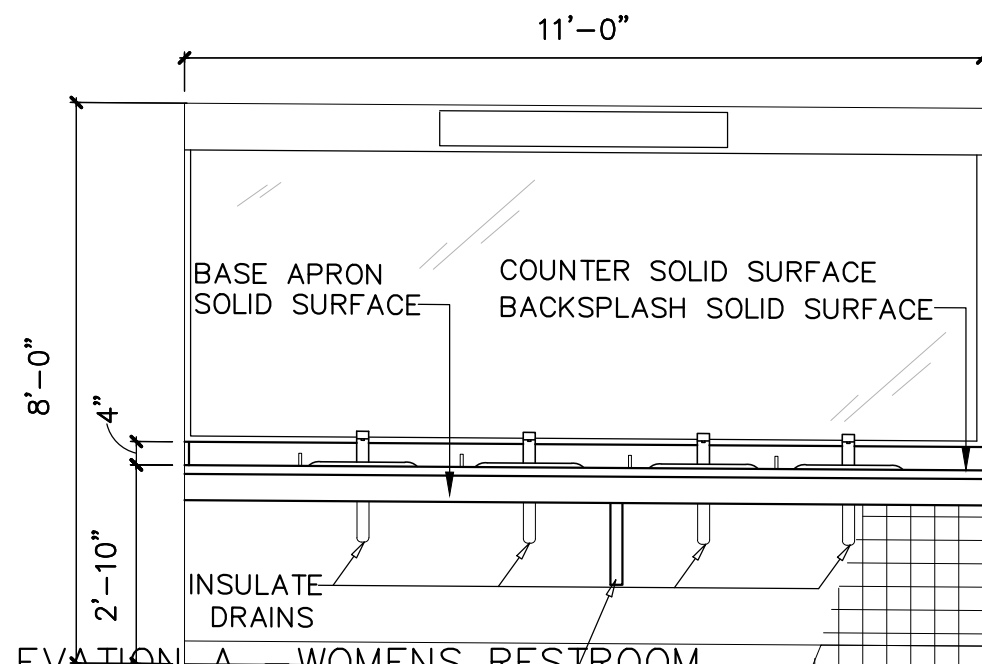
3 EXISTING DORM ROOM SHOWER PAN DETAIL
A400 scale: NTS



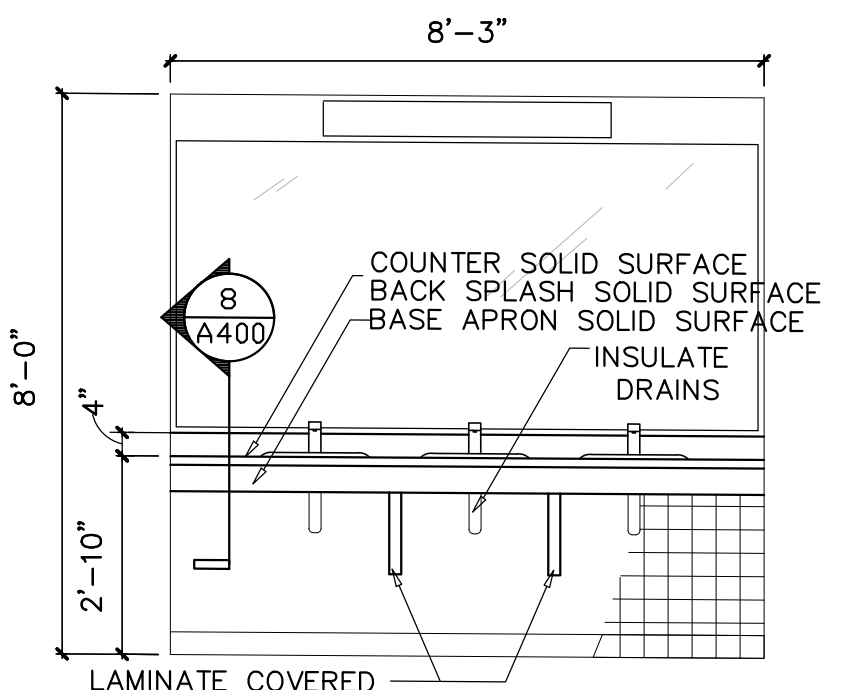
5 TYPICAL DORM ROOM SHOWER PAN DETAIL
A400 scale: NTS



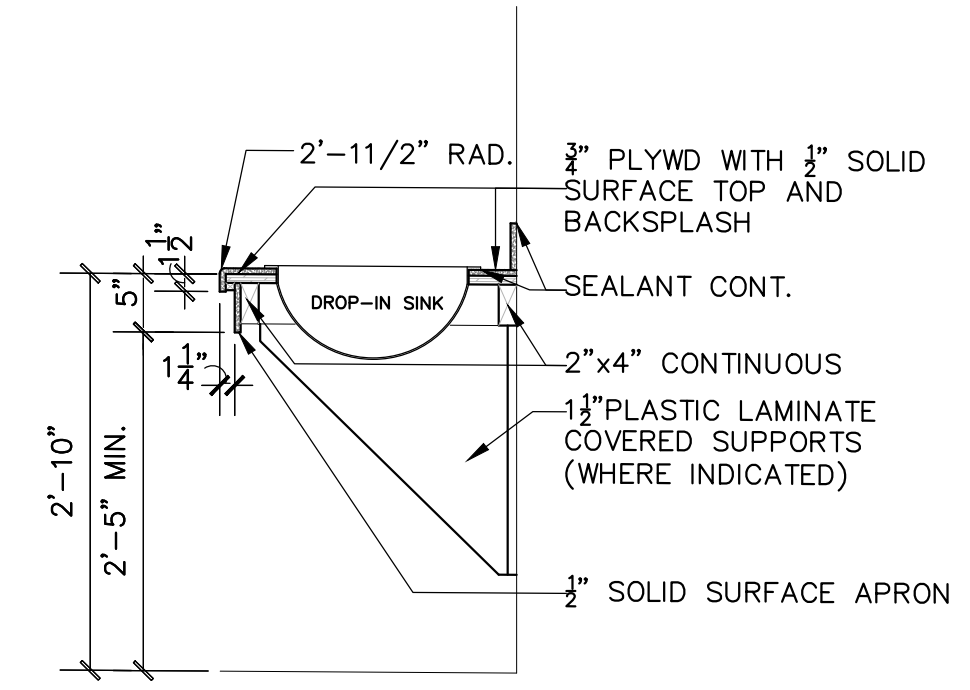
4 SHOWER AREA ELEVATION
A400 scale: 1/2"=1'-0"



6 ELEVATION A - WOMENS RESTROOM MILLWORK ELEVATION
A400 scale: 3/8"=1'-0"

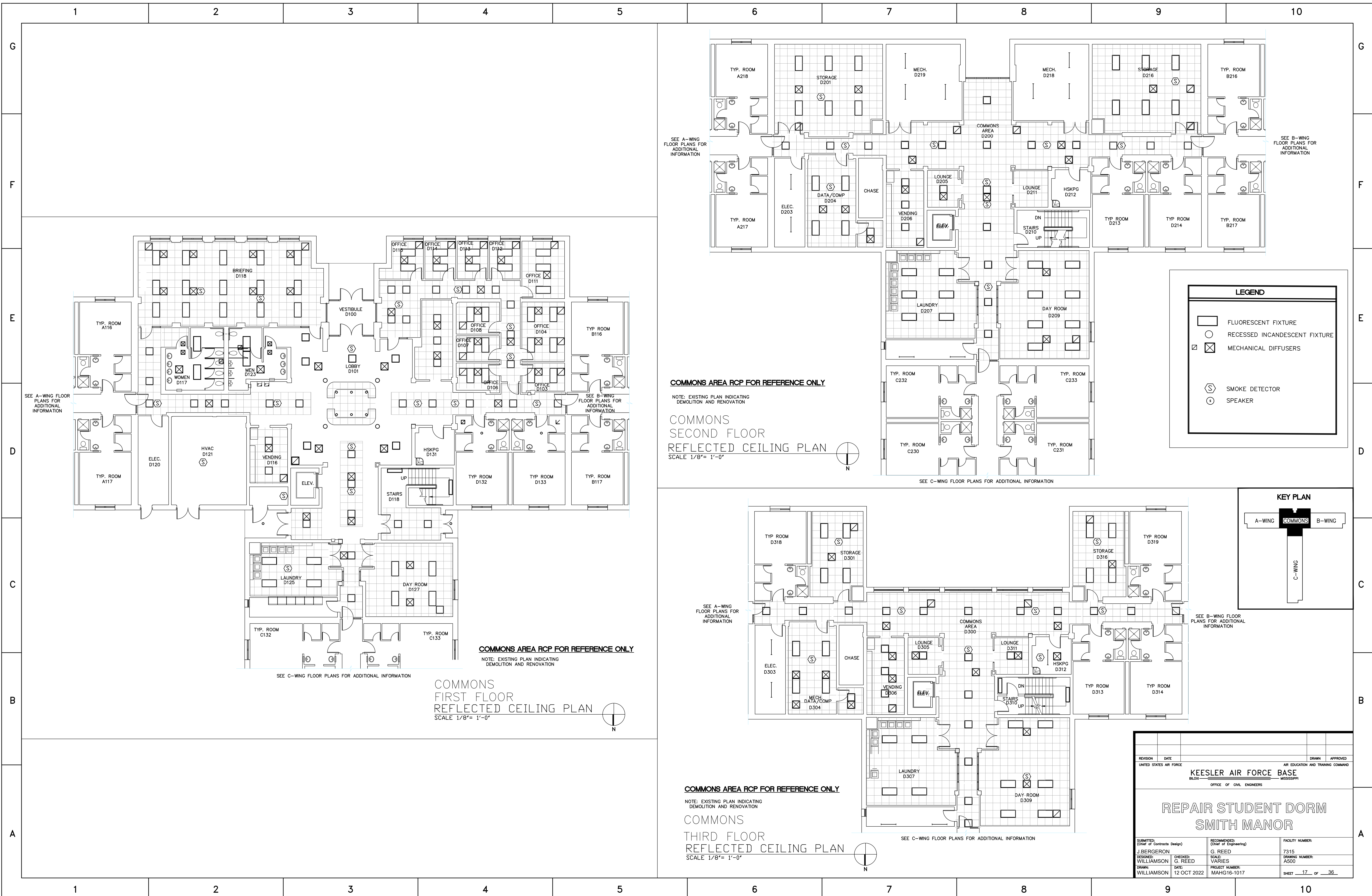


7 ELEVATION C - MENS RESTROOM MILLWORK ELEVATION
A400 scale: 3/8"=1'-0"



8 PUBLIC RESTROOM COUNTER SECTION
A400 scale: 3/4"=1'-0"

| REVISION | DATE | DRAWN | APPROVED |
|--|------|--|----------|
| UNITED STATES AIR FORCE KEESLER AIR FORCE BASE BLOOMINGVILLE, MISSISSIPPI OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH MANOR | | FACILITY NUMBER: 7315 | |
| SUBMITTED: J. BERGERON DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | | RECOMMENDED: G. REED CHECKED: G. REED DATE: 12 OCT 2022 | |
| PROJECT NUMBER: MAHG16-1017 | | DRAWING NUMBER: A400 SHEET 16 OF 36 | |

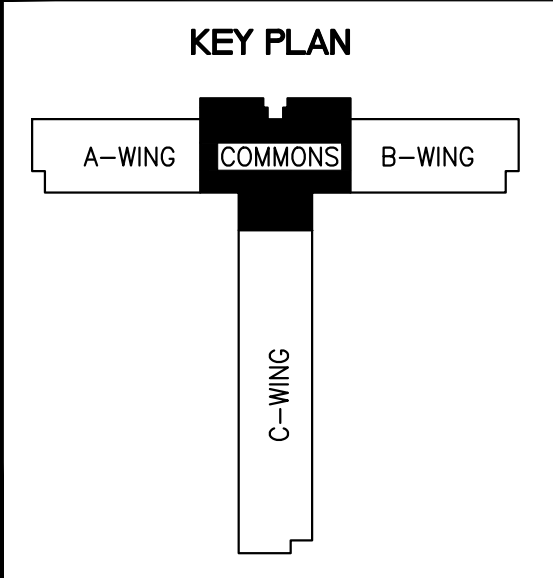


**COMMONS
FIRST FLOOR
REFLECTED CEILING PLAN**
SCALE 1/8"= 1'-0"

**COMMONS
SECOND FLOOR
REFLECTED CEILING PLAN**
SCALE 1/8"= 1'-0"

**COMMONS
THIRD FLOOR
REFLECTED CEILING PLAN**
SCALE 1/8"= 1'-0"

| LEGEND | |
|--------|-------------------------------|
| | FLUORESCENT FIXTURE |
| | RECESSED INCANDESCENT FIXTURE |
| | MECHANICAL DIFFUSERS |
| | SMOKE DETECTOR |
| | SPEAKER |



| REVISION | DATE | DRAWN | APPROVED |
|--|---|---|---|
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOWN OFFICE OF CIVIL ENGINEERS MISSISSIPPI | | | |
| REPAIR STUDENT DORM SMITH MANOR | | | |
| SUBMITTED: J. BERGERON DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: (Chief of Engineering) G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: A500 SHEET 17 OF 36 |

AIR HANDLING UNIT SCHEDULE (FOR INFORMATION ONLY)

| TAG NO. | SERVES | SUPPLY (CFM) | OA (CFM) | COOLING COIL | | | | | | | | | | HEATING COIL | | | | | | | | | | EXT SP (IN.WC) | RPM | FAN | | BASIS OF DESIGN | | |
|-----------------|----------------------|--------------|----------|---------------------|------------------------|--------------|--------------|------|------|------|------|------------------|-------|--------------|---------|---------|----------------|---------|---------|------------------|-------|-------------|---------|----------------|-----|------|---------|-----------------|------------------------|---------|
| | | | | TOTAL CAPACITY TONS | SENSIBLE CAPACITY TONS | MAX FACE VEL | MAX ROWS/FPI | EAT | | LAT | | MAX APD (IN. WC) | WATER | | | | CAPACITY (MBH) | EAT (F) | LAT (F) | MAX APD (IN. WC) | WATER | | | | | HP | V/PH/Hz | | CARRIER MODEL 39L SIZE | |
| | | | | | | | | F db | F wb | F db | F wb | | (GPM) | MAX PD (FT) | ENT (F) | LVG (F) | | | | | (GPM) | MAX PD (FT) | ENT (F) | | | | | | | LVG (F) |
| AHU-W (3) | W WING | 7400 | 3965 | 39.6 | 18.4 | 500 | 6/11 | 87.7 | 77.0 | 55.0 | 54.9 | 0.75 | 79.2 | 20 | 44 | 56 | - | - | - | - | - | - | - | - | 3 | 1750 | 10.0 | 208/3/60 | 18 | |
| AHU-E (3) | E WING | 7750 | 4355 | 42.8 | 19.6 | 500 | 6/11 | 88.1 | 77.5 | 55.0 | 54.9 | 0.75 | 79.2 | 20 | 44 | 56 | - | - | - | - | - | - | - | - | 3 | 1750 | 10.0 | 208/3/60 | 18 | |
| AHU-Sw (3) | S WING (W WING SIDE) | 5400 | 2340 | 26.1 | 11.1 | 500 | 6/11 | 85.7 | 74.1 | 55.0 | 54.9 | 0.75 | 52.2 | 20 | 44 | 56 | - | - | - | - | - | - | - | - | 3 | 1750 | 7.5 | 208/3/60 | 15 | |
| AHU-Se (3) | S WING (E WING SIDE) | 5500 | 2340 | 25.6 | 12.8 | 500 | 6/11 | 85.6 | 74.4 | 55.0 | 54.9 | 0.75 | 51.2 | 20 | 44 | 56 | - | - | - | - | - | - | - | - | 3 | 1750 | 7.5 | 208/3/60 | 15 | |
| AHU-C1 (3) | COMMONS 1st | 2100 | 750 | 9.6 | 5.2 | 500 | 6/11 | 82.4 | 71.3 | 55.0 | 54.4 | 0.75 | 19.2 | 15 | 44 | 56 | - | - | - | - | - | - | - | - | 3 | 1500 | 5 | 208/3/60 | 6 | |
| AHU-C2 (3) | COMMONS 2nd | 2600 | 400 | 8.7 | 5.6 | 500 | 6/11 | 79.3 | 67.3 | 55.0 | 54.4 | 0.75 | 17.4 | 15 | 44 | 56 | - | - | - | - | - | - | - | - | 3 | 1500 | 5 | 208/3/60 | 8 | |
| AHU-C3 (3) | COMMONS 3rd | 4000 | 200 | 10.8 | 8.2 | 500 | 6/11 | 77.8 | 65.1 | 55.0 | 54.4 | 0.75 | 21.8 | 15 | 44 | 56 | - | - | - | - | - | - | - | - | 3 | 1500 | 7.5 | 208/3/60 | 12 | |
| MAU-1 (3) | MAKE-UP AIR UNIT S/L | 7080 | 7080 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.0 | 1350 | 7.5 | 208/3/60 | - | |
| MAU-2 (3) | MAKE-UP AIR UNIT E/W | 8320 | 8320 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.0 | 1350 | 10.0 | 208/3/60 | - | |
| MAU-3 (3) | MAKE-UP COMMONS | 1350 | 1350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.0 | 1350 | 3 | 208/3/60 | - | |
| CY-AHU-1 (2)(3) | LAUNDRY RM 1st | 800 | (1) | 1.8 | 1.4 | 500 | 4/- | 78 | 65 | 55.0 | 54.9 | .6 | 3.6 | 10 | 44 | 56 | 10 | 68.5 | 80.0 | .15 | 1.0 | 20 | 180 | .3 | - | - | 1/5 | 120/1/60 | - | |
| CY-AHU-2 (2)(3) | LAUNDRY RM 2nd | 800 | (1) | 1.8 | 1.4 | 500 | 4/- | 78 | 65 | 55.0 | 54.9 | .6 | 3.6 | 10 | 44 | 56 | 10 | 68.3 | 80.0 | .15 | 1.0 | 20 | 180 | .3 | - | - | 1/5 | 120/1/60 | - | |
| CY-AHU-3 (2)(3) | LAUNDRY RM 3rd | 800 | (1) | 1.8 | 1.4 | 500 | 4/- | 78 | 65 | 55.0 | 54.9 | .6 | 3.6 | 10 | 44 | 56 | 10 | 68.3 | 80.0 | .15 | 1.0 | 20 | 180 | .3 | - | - | 1/5 | 120/1/60 | - | |

- 800 CFM OF UNCONDITIONED/PREHEATED OUTSIDE AIR IS SUPPLIED DIRECTLY TO THE ROOMS, BEHIND THE DRYERS.
- BASED ON TERMINAL VERTICAL FAN COIL UNIT W/FURRED-IN CONSTRUCTION, MOTORIZED OUTSIDE AIR DAMPER, CHW & HHW COILS, UNIT MOUNTED T-STAT W/LOCKING COVER, 1" THROW AWAY FILTER.
- PROVIDE LEVEL SENSOR IN CONDENSATE DRAIN PAN, CONNECT TO EMCS & DDC CONTROL SYSTEM.

CONTROLS NOTES:
 THE INTENT IS TO PROVIDE NECESSARY CONTROLS TO REPLACE THE VAV BOXES AND MAINTAIN OPERATION OF THE ROOMS. THE CURRENT SYSTEM IS NO LONGER SUPPORTED. THIS WORK SHALL INCLUDE THE REMOVAL OF ALL CABLING, THERMOSTATS, AND SENSORS ASSOCIATED WITH THE CURRENT VAV BOXES LOCATED AT VARIOUS ROOMS AND ZONES AND INSTALL NEW WITH SIEMENS/JOHNSON CONTROLS FOR A SEPARATE VAV CONTROLLER WITH THERMOSTAT ON WALL THAT FUNCTIONS CORRECTLY FOR COOLING AND HEATING DUTY BUT IS CAPABLE OF BACNET TIE IN TO THE MENTIONED CONTROL SYSTEMS IN THE FUTURE. BOXES SHALL HAVE BACNET CARDS AND OR DEVICES FOR A SIMPLE CONNECTION IN FUTURE CONTROLS PROJECT. THE NEW SYSTEM SHALL BE 100% COMPLETE WITH ALL CABLING, DEVICES, SENSORS, VALVES, HUMIDISTATS, BOX MOUNTED CONTROLLERS, CONNECTION OF HIGH VOLTAGE WHERE NEEDED (SUB OUT THE WORK AND COORDINATE).

NEW SYSTEM SHALL MEET OR EXCEED CONTROL SEQUENCES OFFERED FOR PERFORMANCE.

THE ROOM THERMOSTATS/SENSORS SHALL BE FUTURE FRONT END CONTROLLED TO ALLOW USER A 5 DEGREE RANGE BUT APPLY A HIGH AND LOW LIMIT TO AVOID USERS FROM INDUCING EXTREME SPACE TEMPERATURES. TENTATIVE ROOM TEMPERATURE WILL BE 72F (ADJ).

FOR FUTURE WORK AT A MINIMUM THE VAV BOX CONTROLS WILL BE COMPLETE WITH STANDALONE CONTROL FOR EACH BOX. EXTEND A CABLE TO THE FLOOR SUB PANEL AND STUB IN WITH SLACK FOR FUTURE TERMINATION AND EXTENSION TO THE BUILDING MAIN PANEL WHEN A COMPLETE BACNET SYSTEM IS INSTALLED. THE INSTALLATION SHALL BE READY W/O REVISITING THE BOX FOR A FUTURE INCLUSION TO BUILDING WIDE SYSTEM. THE CONTROLS, HW VALVE, AND THERMOSTAT WILL BE READY FOR INCLUSION TO THE BUILDING WIDE SYSTEM W/O UPGRADES OR DISRUPTION OF OCCUPANTS AND FINISHES. CABLING IN HALLWAYS CEILING MAY BE ON J HOOKS ABOVE CEILING NEATLY CONNECTED WITH MINIMAL DROOP.

MECHANICAL PIPING LEGEND

| | |
|--|--------------------------------|
| | CONTROL VALVE |
| | REDUCER |
| | STRAINER |
| | BALANCE COCK |
| | UNION |
| | BALL VALVE |
| | GATE VALVE |
| | GAUGE CONNECTION W/ GAUGE COCK |
| | THERMOMETER |
| | PRESSURE GAUGE |
| | BACKFLOW PREVENTER |
| | CHECK VALVE |
| | PRESSURE REDUCING VALVE |
| | GLOBE VALVE |
| | CIRCUIT SETTER |
| | GAS COCK |
| | PRESSURE RELIEF VALVE |
| | CONDENSATE GRAVITY DRAIN |
| | HOT WATER SUPPLY |
| | HOT WATER RETURN |
| | CHILLED WATER SUPPLY |
| | CHILLED WATER RETURN |

HVAC LEGEND

| | |
|--|--|
| | RECTANGULAR DUCT WITH 2" DUCT WRAP |
| | RECTANGULAR DUCT WITH 1" LINER |
| | ROUND DUCT WITH 2" DUCT WRAP |
| | ROUND DUCT WITH 2" DUCT WRAP |
| | FLEX DUCT |
| | SUPPLY DUCT UP |
| | SUPPLY DUCT DOWN |
| | RETURN/EXHAUST DUCT UP |
| | RETURN/EXHAUST DUCT DOWN |
| | SQUARE ELBOW WITH TURNING VANES - RECT. DUCT |
| | ROUND ELBOW - 5 PIECE 90, 3 PIECE 45 |
| | ROUND ELBOW (12" OR LESS) - 5 PIECE 90, 3 PIECE 45 |
| | MANUAL VOLUME DAMPER |
| | MOTORIZED VOLUME DAMPER |
| | CEILING DIFFUSER (FLOW DIRECTION INDICATED) |
| | RETURN AIR GRILLE |
| | THERMOSTAT (CONTROLLER LOCATION) |
| | THERMOSTAT (BULB LOCATION) |
| | STATIC PRESSURE SENSOR |
| | EQUIPMENT TAG |
| | DIFFUSER/GRILLE TAG |
| | NOT IN CONTRACT (NO WORK) |
| | CUBIC FEET PER MINUTE |
| | CUBIC FEET PER MINUTE |
| | ROUND DUCT |
| | THERMOSTAT |

ABBREVIATIONS

| | |
|------|--------------------------|
| CFM | CUBIC FEET PER MINUTE |
| Ø | DIAMETER |
| RAG | RETURN AIR GRILLE |
| WG | WALL GRILLE |
| DG | DOOR GRILLE |
| CG | CEILING GRILLE |
| CD | CEILING DIFFUSER |
| RD | RETURN DIFFUSER |
| LD | LINEAR DIFFUSER |
| OSA | OUTSIDE AIR |
| BD | MANUAL BALANCE DAMPER |
| MD | MOTORIZED BALANCE DAMPER |
| AFD | AUTOMATIC FIRE DAMPER |
| F/SD | FIRE/SMOKE DAMPER |
| F | FURNACE |
| EH | ELECTRIC HEATER |
| DH | DUCT HEATER |
| UH | UNIT HEATER |
| CU | CONDENSING UNIT |
| HP | HEAT PUMP UNIT |

ABBREVIATIONS

| | |
|--------|--------------------------|
| CFM | CUBIC FEET PER MINUTE |
| CC | COOLING COIL |
| FC | FAN COIL |
| AHU | AIR HANDLING UNIT |
| CH | CHILLER |
| B | BOILER |
| EF | EXHAUST FAN |
| GV | GRAVITY VENTILATOR |
| P- | PUMP |
| VFD | VARIABLE FREQUENCY DRIVE |
| EXIST. | EXISTING |
| AFF | ABOVE FINISHED FLOOR |
| TYP. | TYPICAL |
| REQ'D | REQUIRED |
| HWS | HOT WATER SUPPLY |
| HWR | HOT WATER RETURN |
| CWS | CHILLED WATER SUPPLY |
| CWR | CHILLED WATER RETURN |
| AFF | ABOVE FINISH FLOOR |
| SR | SUPPLY REGISTER |

ACCESSORIES:FLEX HOSES, P&T PORTS, STRAINER, UNIONS, CIRCUIT SETTER, TRANSFORMER

GENERAL NOTES

- ALL PENETRATIONS TO BE SLEEVED AND CAULKED
- TEST AND BALANCE TO BE PERFORMED ON ALL SYSTEMS
- MOUNT THERMOSTATS AT 48" PER ADA REQUIREMENTS OR BACK TO EXIST LOCATION AS APPLIES
- SAFETY PAN WITH OVERFLOW SWITCH REQ'D
- INSTALL AHU AT PROPER HEIGHT FOR FALL AND TRAP FOR CONDENSATE.
- CONDENSATE LINE TO BE INSULATED WITH ARMAFLEX
- ALL EQUIPMENT TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS

| | | | |
|--|---|----------------------|--------------------------|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOW OFF — MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM | | | |
| SMITH | | | |
| SUBMITTED: A. MARASCA (Chief of Controls Design) | CHECKED: G. REED (Chief of Engineering) | SCALE: VARIES | FACILITY NUMBER: 7315 |
| DESIGNED: WILLIAMSON | CHECKED: G. REED | DATE: 12 OCT 2022 | DRAWING NUMBER: M001 |
| DRAWN: WILLIAMSON | PROJECT NUMBER: MAHG16-1017 | SHEET 18 OF 36 | |

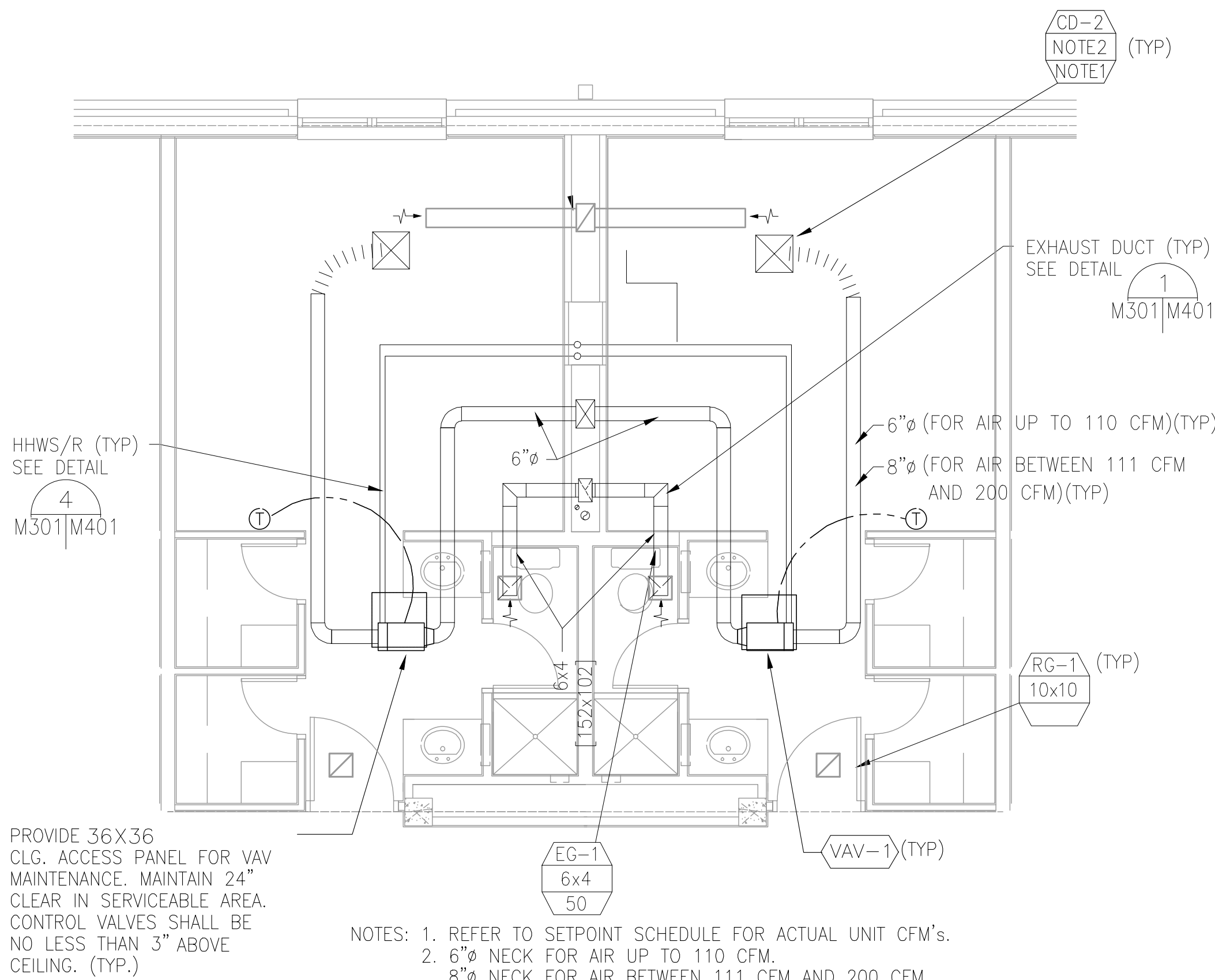
SCOPE WORK: REPLACE VAV BOXES THROUGHOUT BUILDING. REMOVE EXISTING BOX, DISCONNECT REHEAT COIL AT BALL VALVES, REMOVE THERMOSTAT AND CONTROLS, DISCONNECT POWER, DISCONNECT EXISTING CONTROLS COMMUNICATIONS WIRESBACK TO MAIN PANEL (ALL WIRING NOT PART OF FINAL INSTALLATION MUST BE REMOVED). INSTALL NEW BOX WITH BACNET CONTROLS, CONNECT NEW BOX REHEAT COIL WITH NEXUS STYLE VALVE ASSEMBLIES, PROVIDE AND INSTALL NEW DUCT TRANSITIONS AS NECESSARY. INSULATE ALL INSTALLATION WORK WITH 2" BATT, USE LIBERAL SEALANT ON SHEET METAL CONNECTIONS. AFTER TAPING INSULATION USE SEALANT ON INSULATION SEAM. PERFORM TEST AND BALANCE ON BOX WITH CONTROLS COMPANY ON HAND AND SET CALIBRATION FACTOR.

NOTICE: IF THE FULL DDC CONTROL SYSTEM IS NOT ACCEPTED IN BIDDING THEN THE VAV BOX WILL BE INSTALLED STAND ALONE WITH THERMOSTAT, BACNET READY CONTROLS, AND WILL EXTEND MAIN TRUNK OR DAISEY CHAIN FROM BOXES ON HALL TO CENTRAL LOCATION WITH WIRES TERMINATED IN A CABINET SUITABLE FOR FUTURE CONTROLLERS TO BE INSTALLED. FUTURE WORK WILL EXTEND FROM THOSE CABINETS TO A CENTRAL LOCATION FOR THE MAIN CABINET AND BUILDING CONTROLS.

LIVING UNIT VAV SETPOINT SCHEDULE

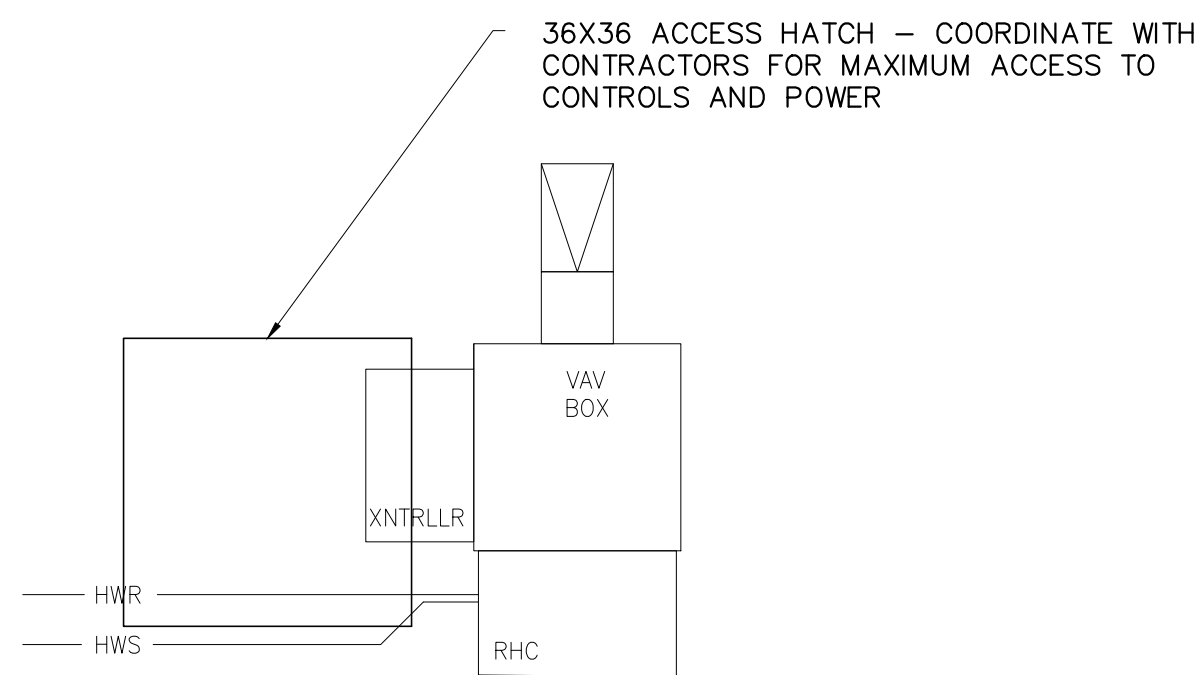
| FLOOR | WING | ROOM ORIENTATION | TYP UNIT | | END UNIT | | REMARKS |
|--------------|------|------------------|----------|-----|----------|-----|---------|
| | | | SUP | RET | SUP | RET | |
| FIRST FLOOR | E | NORTHEAST | 106 | 41 | 118 | 53 | |
| | | SOUTHWEST | 125 | 60 | 149 | 84 | |
| | W | NORTHEAST | 106 | 41 | 122 | 57 | |
| | | SOUTHWEST | 125 | 60 | 149 | 84 | |
| | S | SOUTHEAST | 115 | 50 | 134 | 69 | |
| | | NORTHWEST | 121 | 56 | 138 | 73 | |
| SECOND FLOOR | E | NORTHEAST | 106 | 41 | 118 | 53 | |
| | | SOUTHWEST | 125 | 60 | 149 | 84 | |
| | W | NORTHEAST | 106 | 41 | 122 | 57 | |
| | | SOUTHWEST | 125 | 60 | 149 | 84 | |
| | S | SOUTHEAST | 115 | 50 | 134 | 69 | |
| | | NORTHWEST | 121 | 56 | 138 | 73 | |
| THIRD FLOOR | E | NORTHEAST | 149 | 84 | 164 | 99 | |
| | | SOUTHWEST | 170 | 105 | 194 | 129 | |
| | W | NORTHEAST | 149 | 84 | 167 | 102 | |
| | | SOUTHWEST | 170 | 105 | 194 | 129 | |
| | S | SOUTHEAST | 155 | 90 | 179 | 114 | |
| | | NORTHWEST | 164 | 99 | 182 | 117 | |

1. SA VALUES ARE IN CUBIC FEET PER MINUTE (CFM)
2. 50 CFM/UNIT EXHAUST.
3. 15 CFM/UNIT FOR AIR PRESSURIZATION.



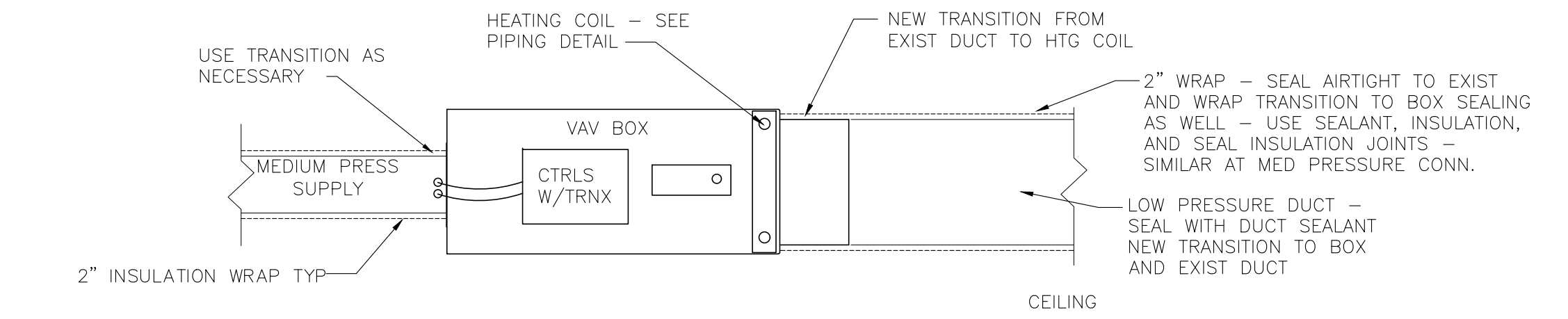
1 TYPICAL LIVING UNIT DETAIL

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



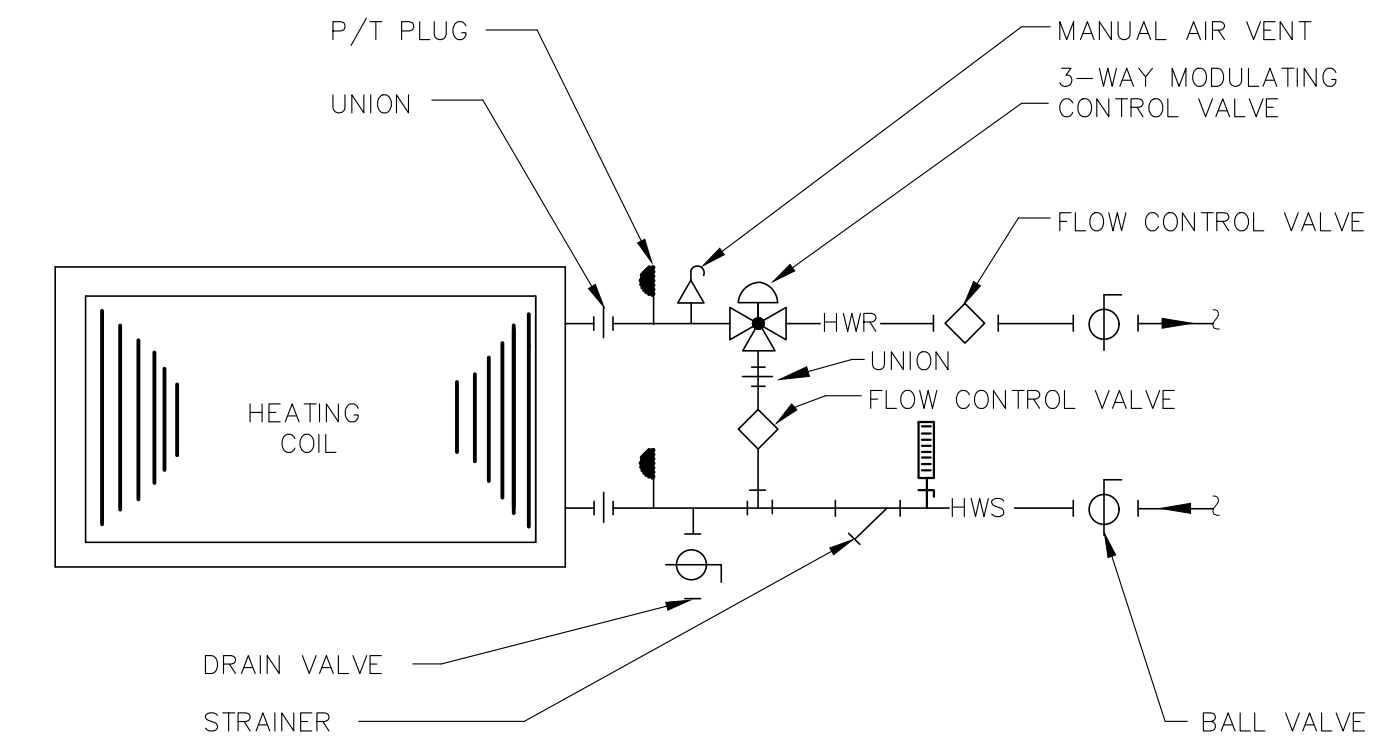
2 VAV ACCESS SCHEMATIC

SCALE: NTS



3 VAV BOX INSTALLATION DETAIL

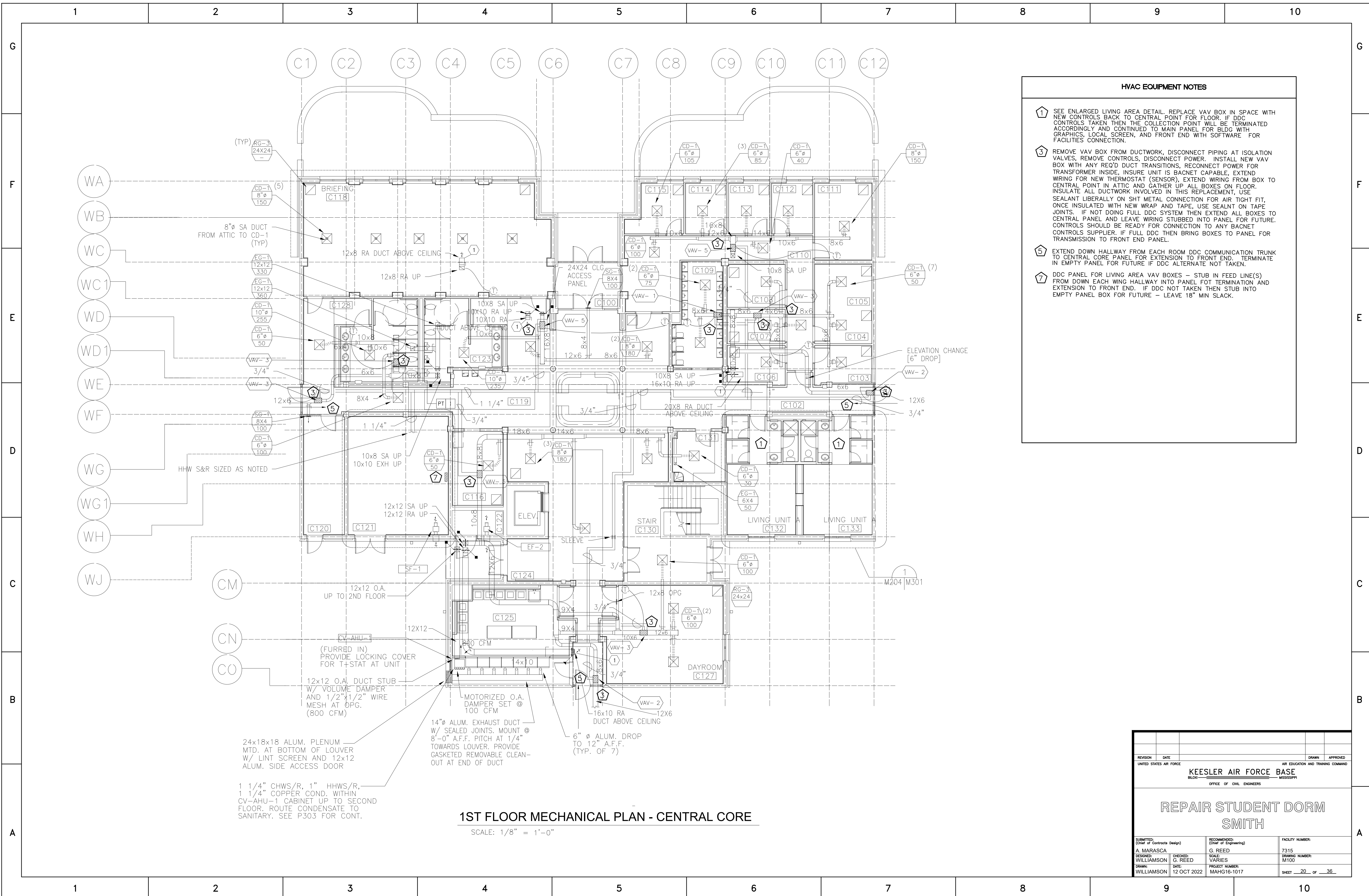
SCALE: NTS



4 VAV HEATING COIL DETAIL

SCALE: NTS

| REVISION | DATE | DRAWN | APPROVED |
|---|--|--|---|
| UNITED STATES AIR FORCE KEESLER AIR FORCE BASE BLOOMINGVILLE, MISSISSIPPI OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | RECOMMENDED: G. REED CHECKED: G. REED DATE: 12 OCT 2022 | SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M002 SHEET 19 OF 36 |



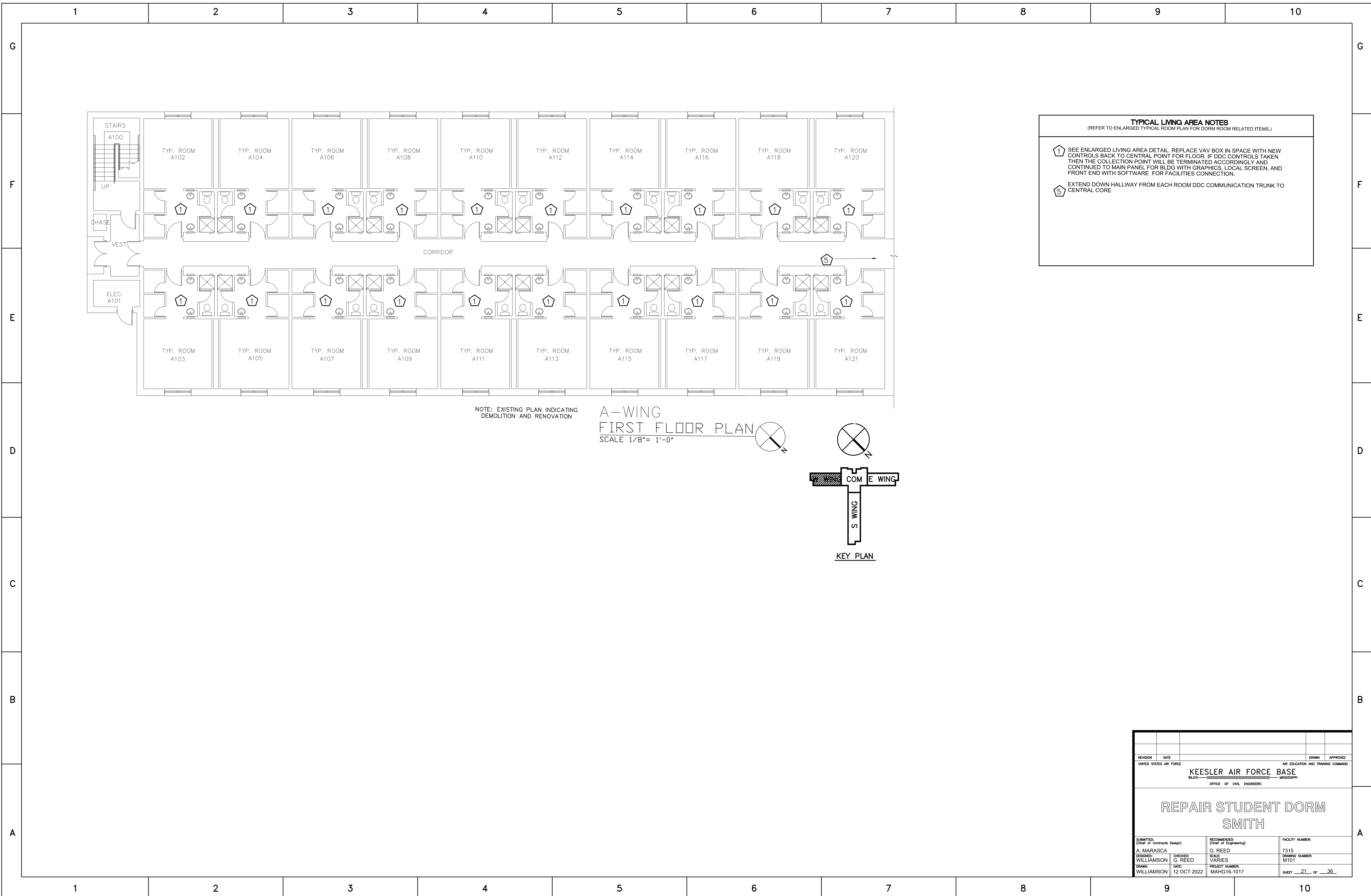
HVAC EQUIPMENT NOTES

- 1 SEE ENLARGED LIVING AREA DETAIL. REPLACE VAV BOX IN SPACE WITH NEW CONTROLS BACK TO CENTRAL POINT FOR FLOOR. IF DDC CONTROLS TAKEN THEN THE COLLECTION POINT WILL BE TERMINATED ACCORDINGLY AND CONTINUED TO MAIN PANEL FOR BLDG WITH GRAPHICS, LOCAL SCREEN, AND FRONT END WITH SOFTWARE FOR FACILITIES CONNECTION.
- 3 REMOVE VAV BOX FROM DUCTWORK, DISCONNECT PIPING AT ISOLATION VALVES, REMOVE CONTROLS, DISCONNECT POWER. INSTALL NEW VAV BOX WITH ANY REQ'D DUCT TRANSITIONS, RECONNECT POWER FOR TRANSFORMER INSIDE. INSURE UNIT IS BACNET CAPABLE, EXTEND WIRING FOR NEW THERMOSTAT (SENSOR), EXTEND WIRING FROM BOX TO CENTRAL POINT IN ATTIC AND GATHER UP ALL BOXES ON FLOOR. INSULATE ALL DUCTWORK INVOLVED IN THIS REPLACEMENT, USE SEALANT LIBERALLY ON SHIT METAL CONNECTION FOR AIR TIGHT FIT, ONCE INSULATED WITH NEW WRAP AND TAPE, USE SEALNT ON TAPE JOINTS. IF NOT DOING FULL DDC SYSTEM THEN EXTEND ALL BOXES TO CENTRAL PANEL AND LEAVE WIRING STUBBED INTO PANEL FOR FUTURE. CONTROLS SHOULD BE READY FOR CONNECTION TO ANY BACNET CONTROLS SUPPLIER. IF FULL DDC THEN BRING BOXES TO PANEL FOR TRANSMISSION TO FRONT END PANEL.
- 5 EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE PANEL FOR EXTENSION TO FRONT END. TERMINATE IN EMPTY PANEL FOR FUTURE IF DDC ALTERNATE NOT TAKEN.
- 7 DDC PANEL FOR LIVING AREA VAV BOXES - STUB IN FEED LINE(S) FROM DOWN EACH WING HALLWAY INTO PANEL FOR TERMINATION AND EXTENSION TO FRONT END. IF DDC NOT TAKEN THEN STUB INTO EMPTY PANEL BOX FOR FUTURE - LEAVE 18" MIN SLACK.

1ST FLOOR MECHANICAL PLAN - CENTRAL CORE

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

| | | | |
|---|---|---|--|
| <small>REVISION</small> | <small>DATE</small> | <small>DRAWN</small> | <small>APPROVED</small> |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| <small>BLOOMINGTON, MISSISSIPPI</small> | | | |
| <small>OFFICE OF CIVIL ENGINEERS</small> | | | |
| REPAIR STUDENT DORM | | | |
| SMITH | | | |
| <small>SUBMITTED:</small> A. MARASCA <small>(Chief of Contracts Design)</small> | <small>RECOMMENDED:</small> G. REED <small>(Chief of Engineering)</small> | <small>FACILITY NUMBER:</small> 7315 | |
| <small>DESIGNED:</small> WILLIAMSON | <small>CHECKED:</small> G. REED | <small>SCALE:</small> VARIES | <small>DRAWING NUMBER:</small> M100 |
| <small>DRAWN:</small> WILLIAMSON | <small>DATE:</small> 12 OCT 2022 | <small>PROJECT NUMBER:</small> MAHG16-1017 | <small>SHEET</small> 20 <small>OF</small> 38 |



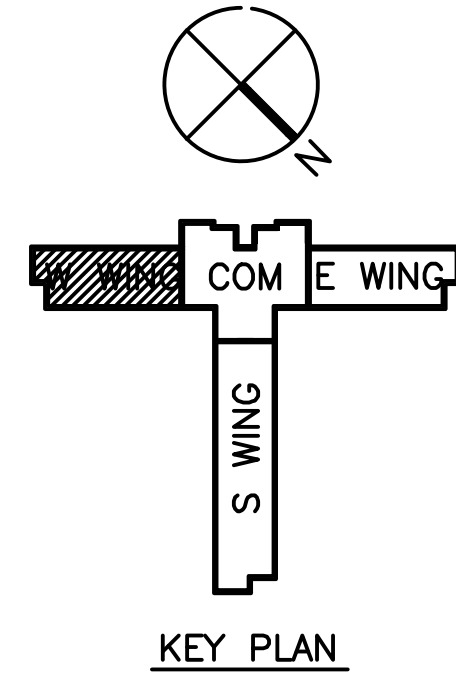
TYPICAL LIVING AREA NOTES
 (REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS.)

① SEE ENLARGED LIVING AREA DETAIL. REPLACE VAV BOX IN SPACE WITH NEW CONTROLS BACK TO CENTRAL POINT FOR FLOOR. IF DDC CONTROLS TAKEN THEN THE COLLECTION POINT WILL BE TERMINATED ACCORDINGLY AND CONTINUED TO MAIN PANEL FOR BLDG WITH GRAPHICS, LOCAL SCREEN, AND FRONT END WITH SOFTWARE FOR FACILITIES CONNECTION.

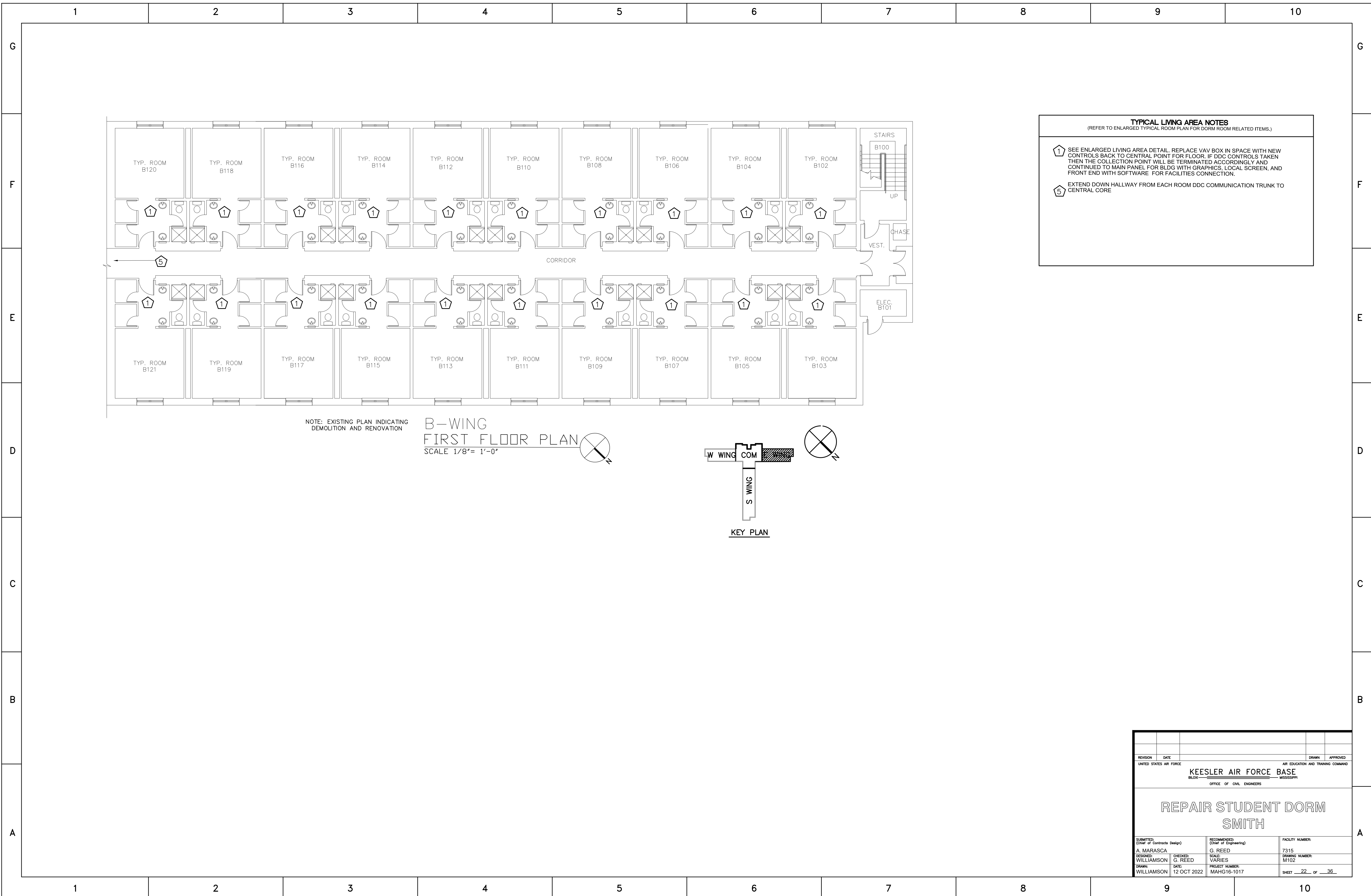
⑤ EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

A-WING
 FIRST FLOOR PLAN
 SCALE 1/8" = 1'-0"



| | | | |
|---|---|---|---|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGTON, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M101 SHEET 21 of 36 |



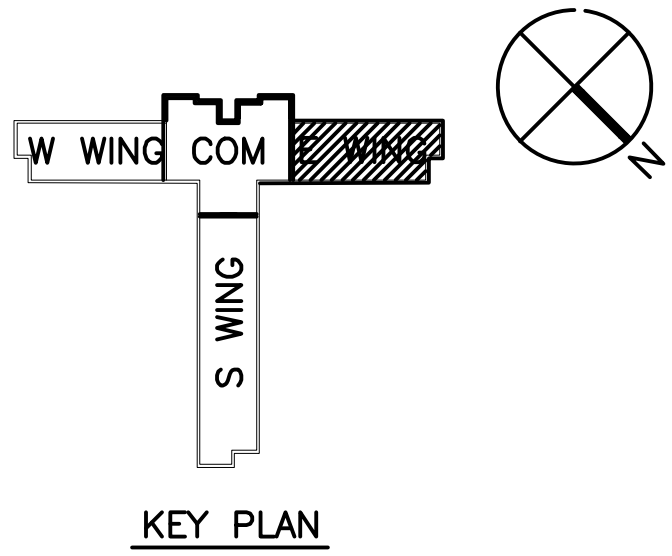
TYPICAL LIVING AREA NOTES
 (REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS.)

1 SEE ENLARGED LIVING AREA DETAIL. REPLACE VAV BOX IN SPACE WITH NEW CONTROLS BACK TO CENTRAL POINT FOR FLOOR. IF DDC CONTROLS TAKEN THEN THE COLLECTION POINT WILL BE TERMINATED ACCORDINGLY AND CONTINUED TO MAIN PANEL FOR BLDG WITH GRAPHICS, LOCAL SCREEN, AND FRONT END WITH SOFTWARE FOR FACILITIES CONNECTION.

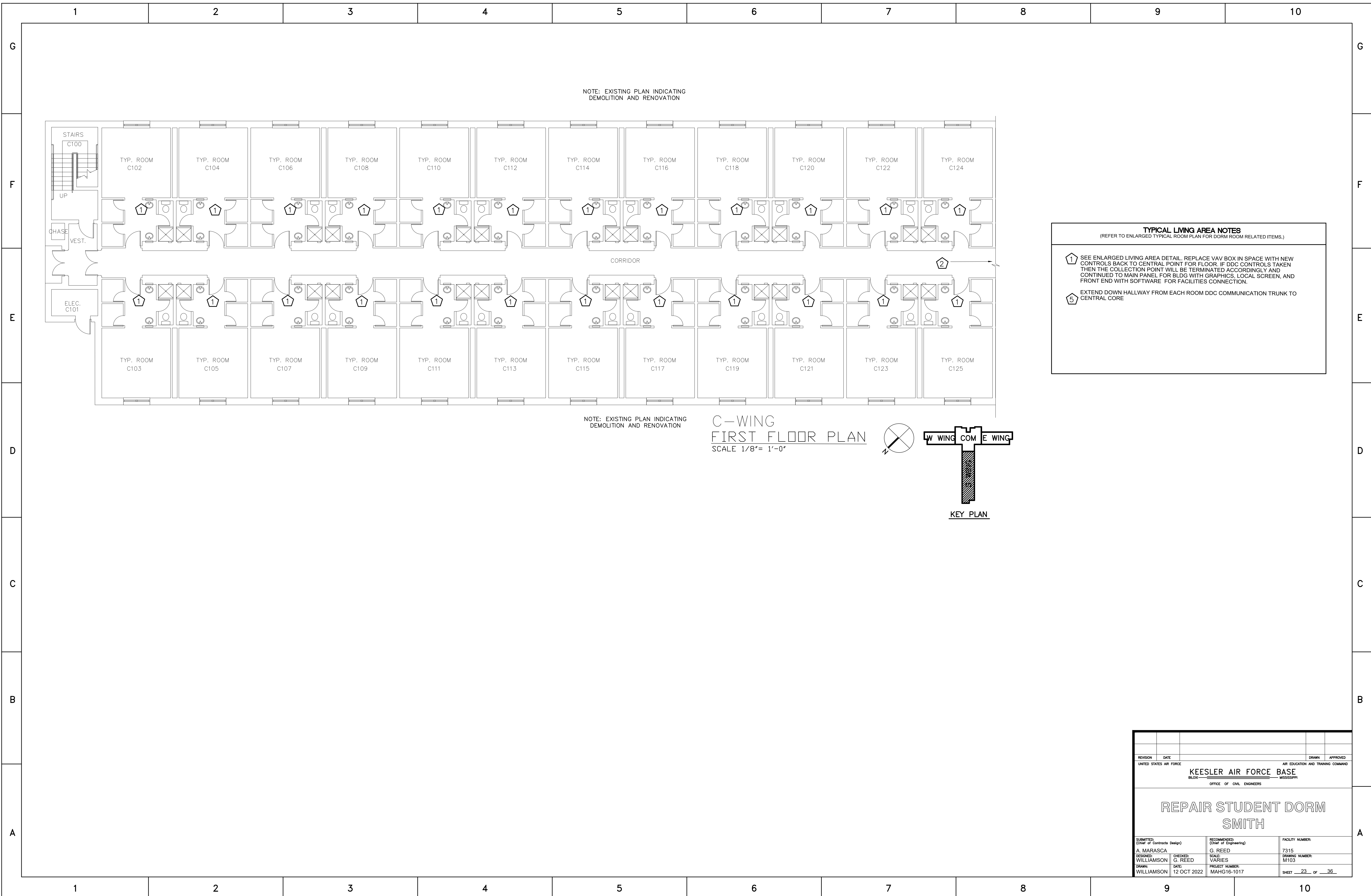
5 EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

**B-WING
 FIRST FLOOR PLAN**
 SCALE 1/8" = 1'-0"



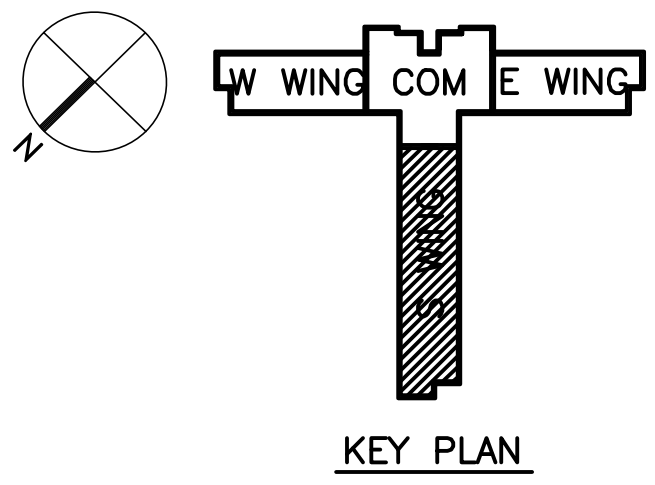
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| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOWN OFF MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | RECOMMENDED: G. REED CHECKED: G. REED DATE: 12 OCT 2022 | SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M102 SHEET 22 of 36 |



NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

C-WING
FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



TYPICAL LIVING AREA NOTES
(REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS.)

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5 EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE

| REVISION | DATE | DRAWN | APPROVED |
|----------|------|-------|----------|
| | | | |

UNITED STATES AIR FORCE
KEESLER AIR FORCE BASE
 BLDG. _____ MISSISSIPPI
 OFFICE OF CIVIL ENGINEERS

REPAIR STUDENT DORM SMITH

| | | | |
|---|---|---|---|
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M103 SHEET <u>23</u> OF <u>36</u> |
|---|---|---|---|

NOTES:

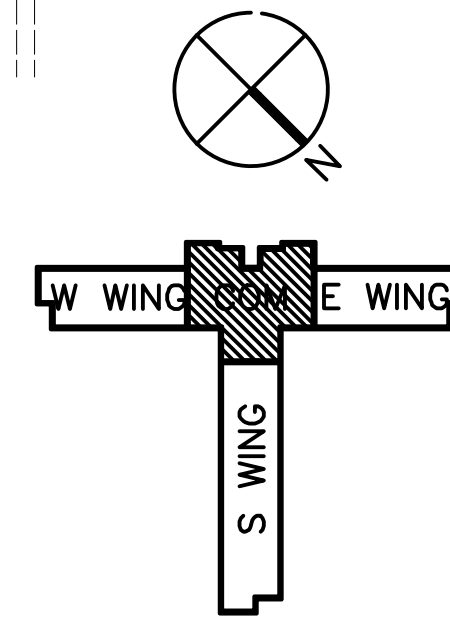
1. 6" ELEVATION DROP IN DUCT WITHIN SOFFIT
2. 6" ELEVATION RISE IN DUCT WITHIN SOFFIT

HVAC EQUIPMENT NOTES

- 1 SEE ENLARGED LIVING AREA DETAIL. REPLACE VAV BOX IN SPACE WITH NEW CONTROLS BACK TO CENTRAL POINT FOR FLOOR. IF DDC CONTROLS TAKEN THEN THE COLLECTION POINT WILL BE TERMINATED ACCORDINGLY AND CONTINUED TO MAIN PANEL FOR BLDG WITH GRAPHICS, LOCAL SCREEN, AND FRONT END WITH SOFTWARE FOR FACILITIES CONNECTION.
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- 5 EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE PANEL FOR EXTENSION TO FRONT END. TERMINATE IN EMPTY PANEL FOR FUTURE IF DDC ALTERNATE NOT TAKEN.
- 7 DDC PANEL FOR LIVING AREA VAV BOXES - STUB IN FEED LINE(S) FROM DOWN EACH WING HALLWAY INTO PANEL FOR TERMINATION AND EXTENSION TO FRONT END. IF DDC NOT TAKEN THEN STUB INTO EMPTY PANEL BOX FOR FUTURE - LEAVE 18" MIN SLACK.

2ND FLOOR MECHANICAL PLAN - CENTRAL CORE

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



| | | | |
|--|-------------------------|--------------------------------|--------------------------|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGVILLE, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM | | | |
| SMITH | | | |
| SUBMITTED: A. MARASCA (Chief of Controls Design) | DESIGNED: WILLIAMSON | CHECKED: G. REED | DATE: 12 OCT 2022 |
| RECOMMENDED: G. REED (Chief of Engineering) | SCALE: VARIES | PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 |
| DRAWING NUMBER: M200 | | | SHEET 24 OF 38 |

1 1/4" CHWS/R, 1" HHWS/R, 1 1/4" COPPER COND. WITHIN CV-AHU-2 CABINET UP TO THIRD FLOOR. ROUTE CONDENSATE TO SANITARY. SEE P303 FOR CONT.

24x18x18 ALUM. PLENUM MTD. AT BOTTOM OF LOUVER W/ LINT SCREEN AND 12x12 ALUM. SIDE ACCESS DOOR

14" ALUM. EXHAUST DUCT W/ SEALED JOINTS. MOUNT @ 8'-0" A.F.F. PITCH AT 1/4" TOWARDS LOUVER. PROVIDE GASKETED REMOVABLE CLEAN-OUT AT END OF DUCT

12x12 O.A. DUCT STUB W/ VOLUME DAMPER AND 1/2"x1/2" WIRE MESH AT OPG. (800 CFM)

(FURRED IN) PROVIDE LOCKING COVER FOR T-STAT AT UNIT

28'x96" LOUVER SEE ARCH DWG A302 FOR LOCATION UP TO THIRD FLR.

10x4 ALUMINUM FIXED BLADE TRANSFER GRILLE

SEE NOTE 2

SEE NOTE 1

SEE NOTE 1

14x6 RA DUCT ABOVE CEILING

DISCHARGE EXHAUST DUCT INTO ROOF EAVE

1 2 3 4 5 6 7 8 9 10

G

G

F

F

E

E

D

D

C

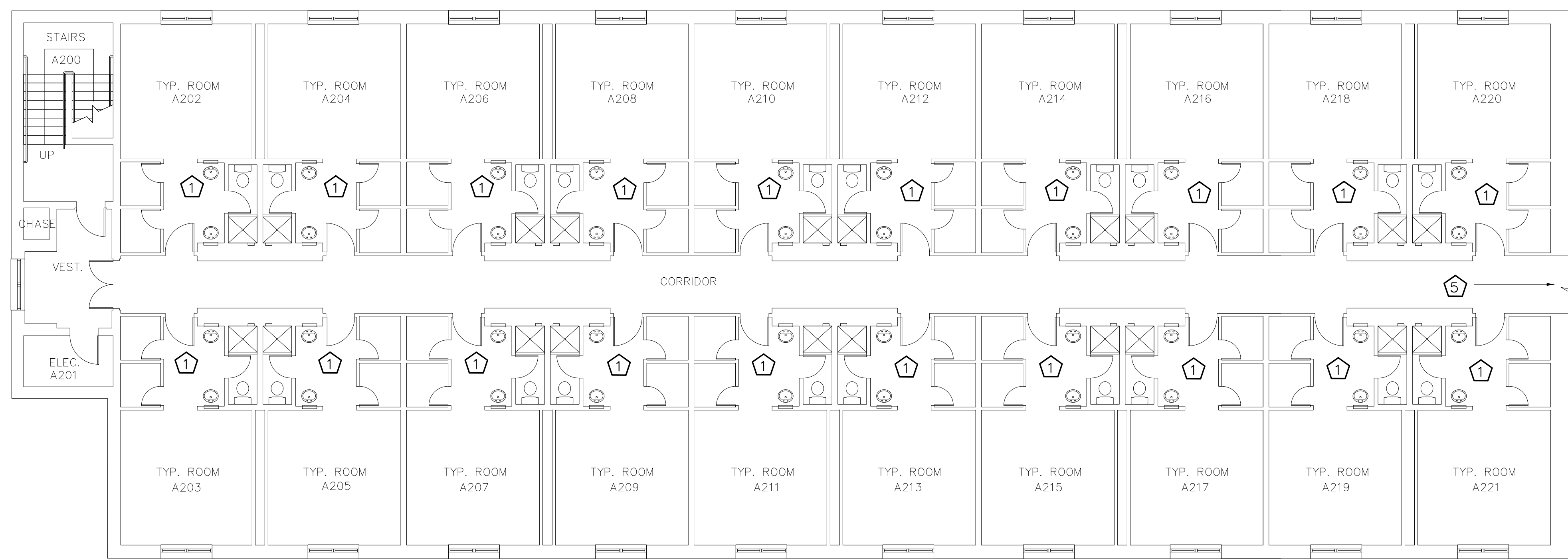
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B

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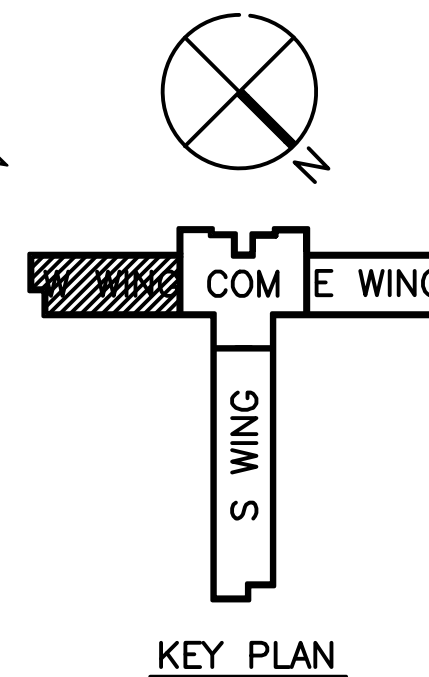
A

A



NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

A-WING
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



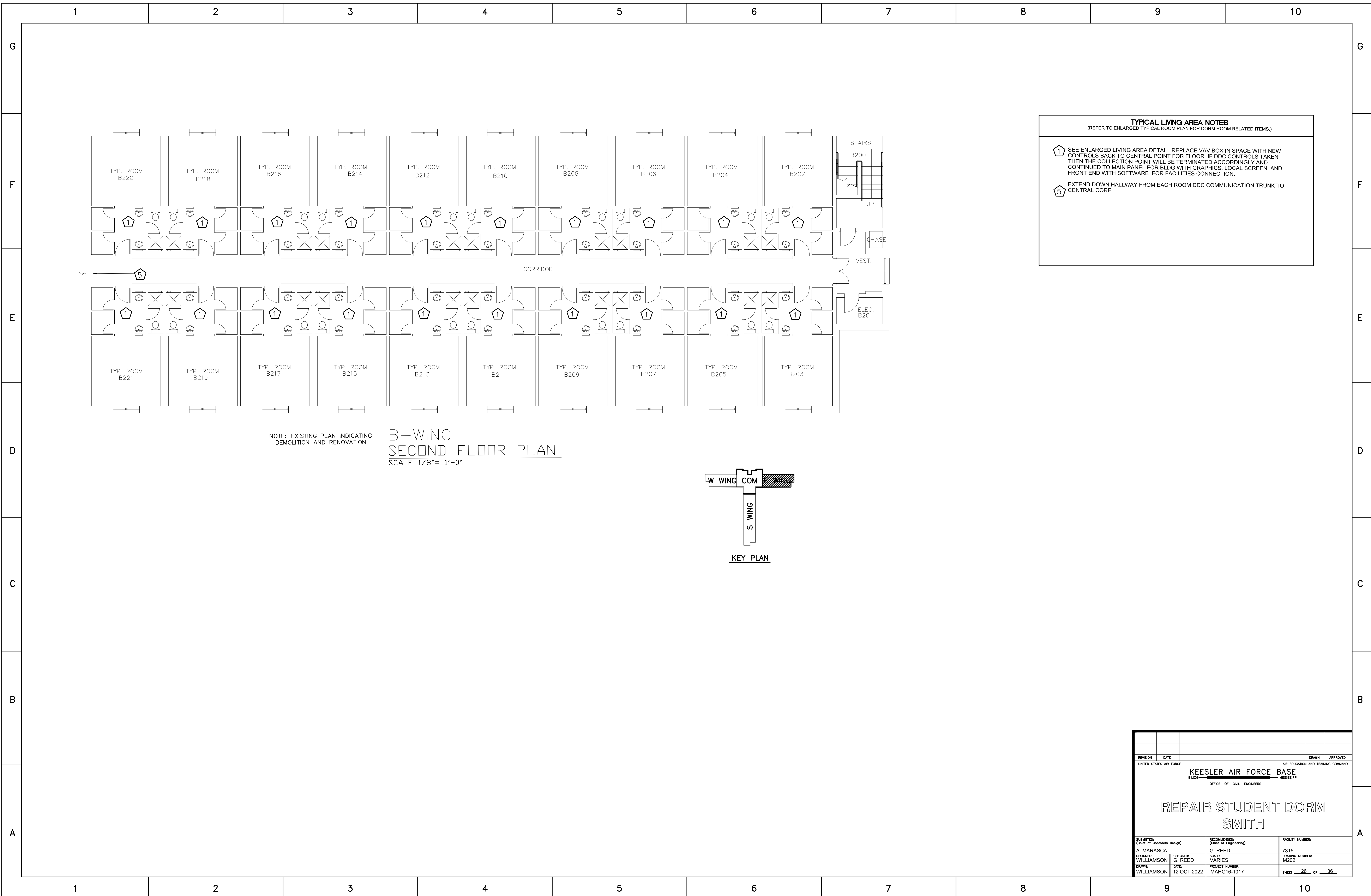
TYPICAL LIVING AREA NOTES
(REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS.)

1 SEE ENLARGED LIVING AREA DETAIL. REPLACE VAV BOX IN SPACE WITH NEW CONTROLS BACK TO CENTRAL POINT FOR FLOOR. IF DDC CONTROLS TAKEN THEN THE COLLECTION POINT WILL BE TERMINATED ACCORDINGLY AND CONTINUED TO MAIN PANEL FOR BLDG WITH GRAPHICS, LOCAL SCREEN, AND FRONT END WITH SOFTWARE FOR FACILITIES CONNECTION.

5 EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE

| | | | |
|---|---|---|---|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGTON, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M201 SHEET 25 OF 36 |

1 2 3 4 5 6 7 8 9 10



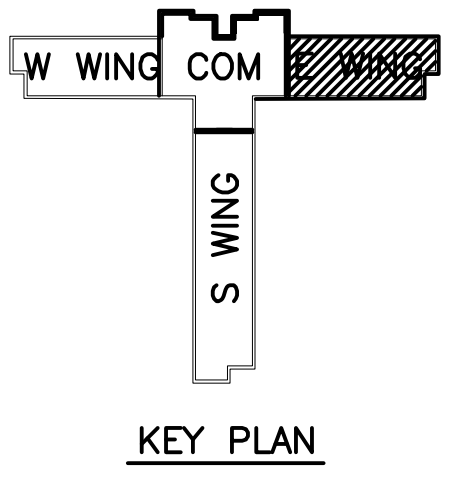
TYPICAL LIVING AREA NOTES
 (REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS.)

1 SEE ENLARGED LIVING AREA DETAIL. REPLACE VAV BOX IN SPACE WITH NEW CONTROLS BACK TO CENTRAL POINT FOR FLOOR. IF DDC CONTROLS TAKEN THEN THE COLLECTION POINT WILL BE TERMINATED ACCORDINGLY AND CONTINUED TO MAIN PANEL FOR BLDG WITH GRAPHICS, LOCAL SCREEN, AND FRONT END WITH SOFTWARE FOR FACILITIES CONNECTION.

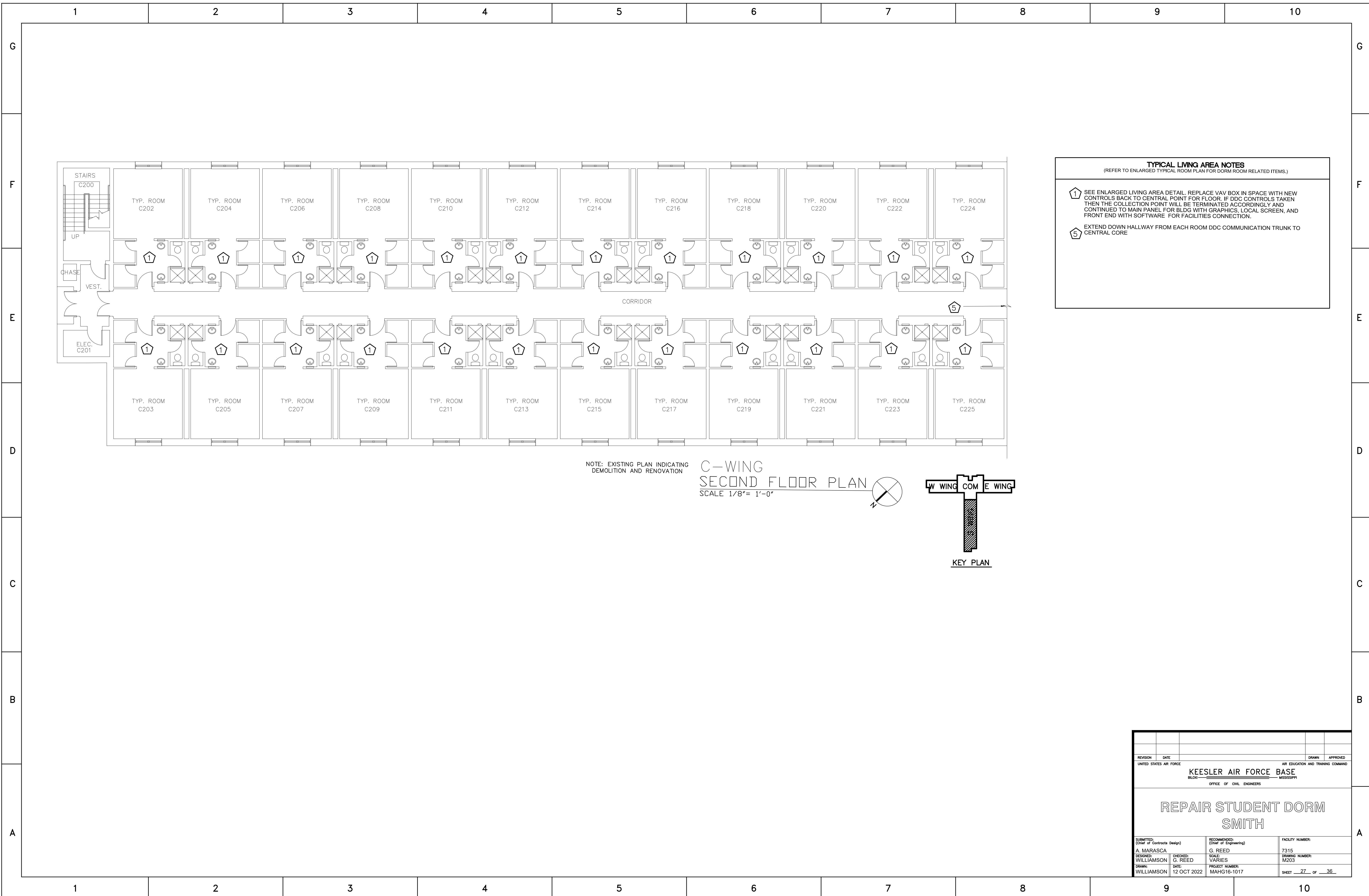
5 EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

**B-WING
 SECOND FLOOR PLAN**
 SCALE 1/8" = 1'-0"



| | | | |
|---|---|---|---|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGTON, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M202 SHEET 26 of 36 |

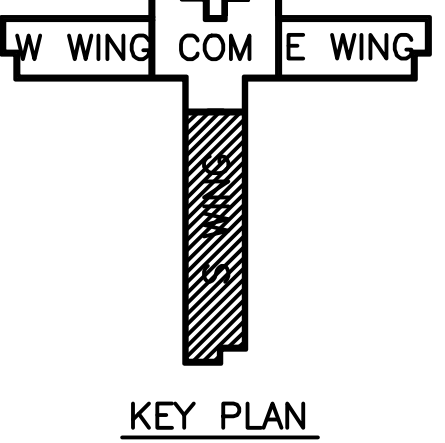
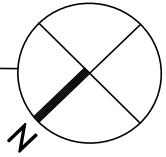


TYPICAL LIVING AREA NOTES
(REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS.)

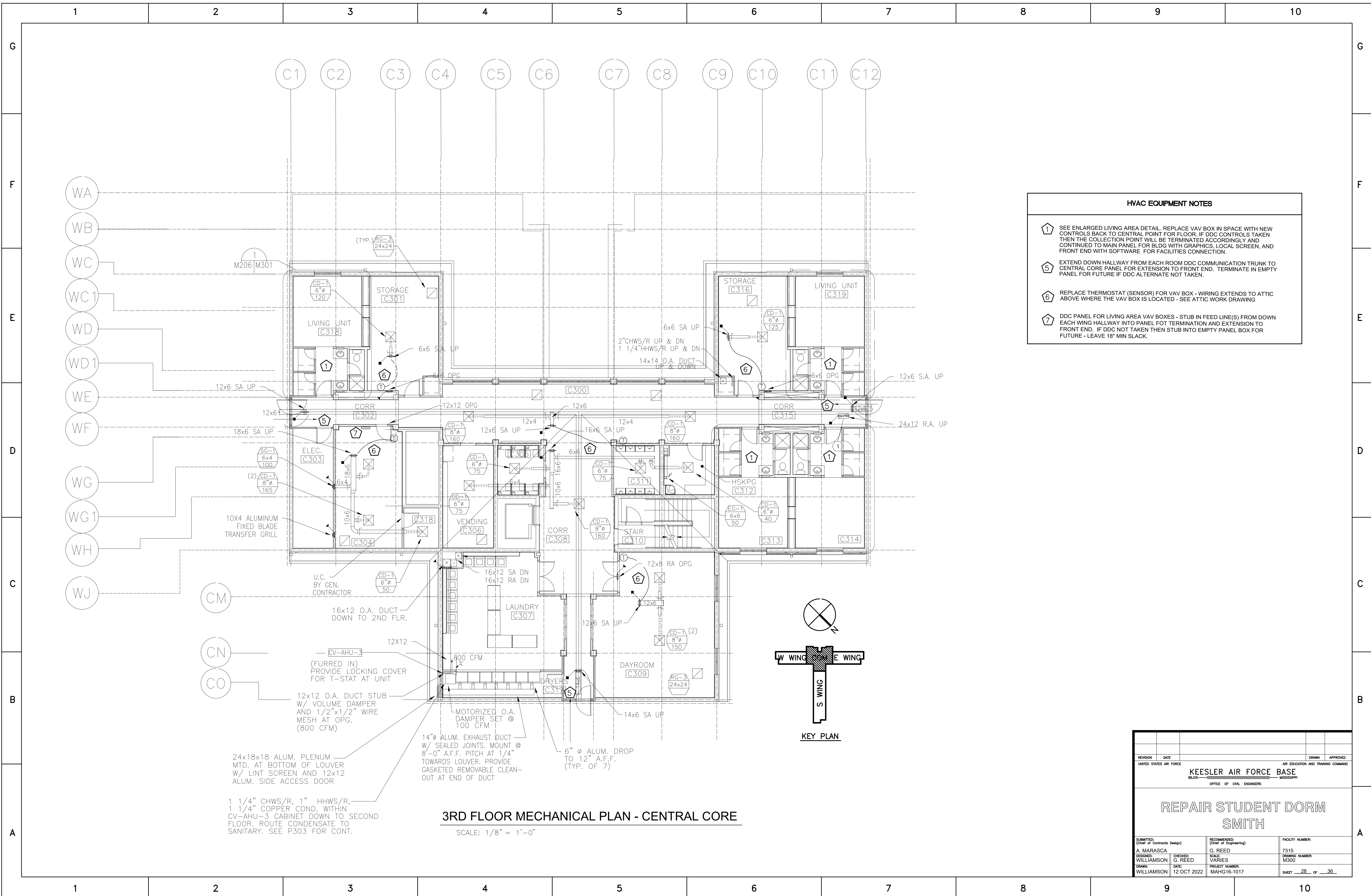
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- 5 EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

**C-WING
SECOND FLOOR PLAN**
SCALE 1/8" = 1'-0"



| REVISION | DATE | DRAWN | APPROVED |
|--|---|--|---|
| | | | |
| UNITED STATES AIR FORCE KEESLER AIR FORCE BASE <small>BLOOMINGTON, MISSISSIPPI</small> OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| <small>SUBMITTED:</small> A. MARASCA <small>DESIGNED:</small> WILLIAMSON | <small>RECOMMENDED:</small> G. REED <small>CHECKED:</small> G. REED <small>DATE:</small> 12 OCT 2022 | <small>SCALE:</small> VARIES <small>PROJECT NUMBER:</small> MAHG16-1017 | <small>FACILITY NUMBER:</small> 7315 <small>DRAWING NUMBER:</small> M203 <small>SHEET</small> 27 <small>OF</small> 36 |



- HVAC EQUIPMENT NOTES**
- 1 SEE ENLARGED LIVING AREA DETAIL. REPLACE VAV BOX IN SPACE WITH NEW CONTROLS BACK TO CENTRAL POINT FOR FLOOR. IF DDC CONTROLS TAKEN THEN THE COLLECTION POINT WILL BE TERMINATED ACCORDINGLY AND CONTINUED TO MAIN PANEL FOR BLDG WITH GRAPHICS, LOCAL SCREEN, AND FRONT END WITH SOFTWARE FOR FACILITIES CONNECTION.
 - 5 EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE PANEL FOR EXTENSION TO FRONT END. TERMINATE IN EMPTY PANEL FOR FUTURE IF DDC ALTERNATE NOT TAKEN.
 - 6 REPLACE THERMOSTAT (SENSOR) FOR VAV BOX - WIRING EXTENDS TO ATTIC ABOVE WHERE THE VAV BOX IS LOCATED - SEE ATTIC WORK DRAWING
 - 7 DDC PANEL FOR LIVING AREA VAV BOXES - STUB IN FEED LINE(S) FROM DOWN EACH WING HALLWAY INTO PANEL FOR TERMINATION AND EXTENSION TO FRONT END. IF DDC NOT TAKEN THEN STUB INTO EMPTY PANEL BOX FOR FUTURE - LEAVE 18" MIN SLACK.

3RD FLOOR MECHANICAL PLAN - CENTRAL CORE

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

1 1/4" CHWS/R, 1" HHWS/R, 1 1/4" COPPER COND. WITHIN CV-AHU-3 CABINET DOWN TO SECOND FLOOR. ROUTE CONDENSATE TO SANITARY. SEE P303 FOR CONT.

24x18x18 ALUM. PLENUM MTD. AT BOTTOM OF LOUVER W/ LINT SCREEN AND 12x12 ALUM. SIDE ACCESS DOOR

12x12 O.A. DUCT STUB W/ VOLUME DAMPER AND 1/2"x1/2" WIRE MESH AT OPG. (800 CFM)

(FURRED IN) PROVIDE LOCKING COVER FOR T-STAT AT UNIT

16x12 O.A. DUCT DOWN TO 2ND FLR.

U.C. BY GEN. CONTRACTOR

10x4 ALUMINUM FIXED BLADE TRANSFER GRILL

(2) CD-1 8"ø 165

18x6 SA UP

12x6 SA UP

M206 M301

14"ø ALUM. EXHAUST DUCT W/ SEALED JOINTS. MOUNT @ 8'-0" A.F.F. PITCH AT 1/4" TOWARDS LOUVER. PROVIDE GASKETED REMOVABLE CLEAN-OUT AT END OF DUCT

MOTORIZED O.A. DAMPER SET @ 100 CFM

800 CFM

16x12 SA DN
16x12 RA DN

10x6

12x6 SA UP

12x12 OPG

6x6 SA UP

(TYP.) RG-3 24x24

6" ø ALUM. DROP TO 12" A.F.F. (TYP. OF 7)

14x6 SA UP

12x6 SA UP

12x8 RA OPG

12x4

16x6 SA UP

12x4

14x14 O.A. DUCT UP & DOWN

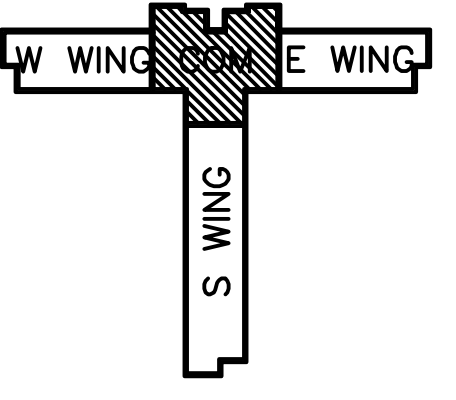
2"CHWS/R UP & DN
1 1/4"HHWS/R UP & DN

6x6 SA UP

12x6

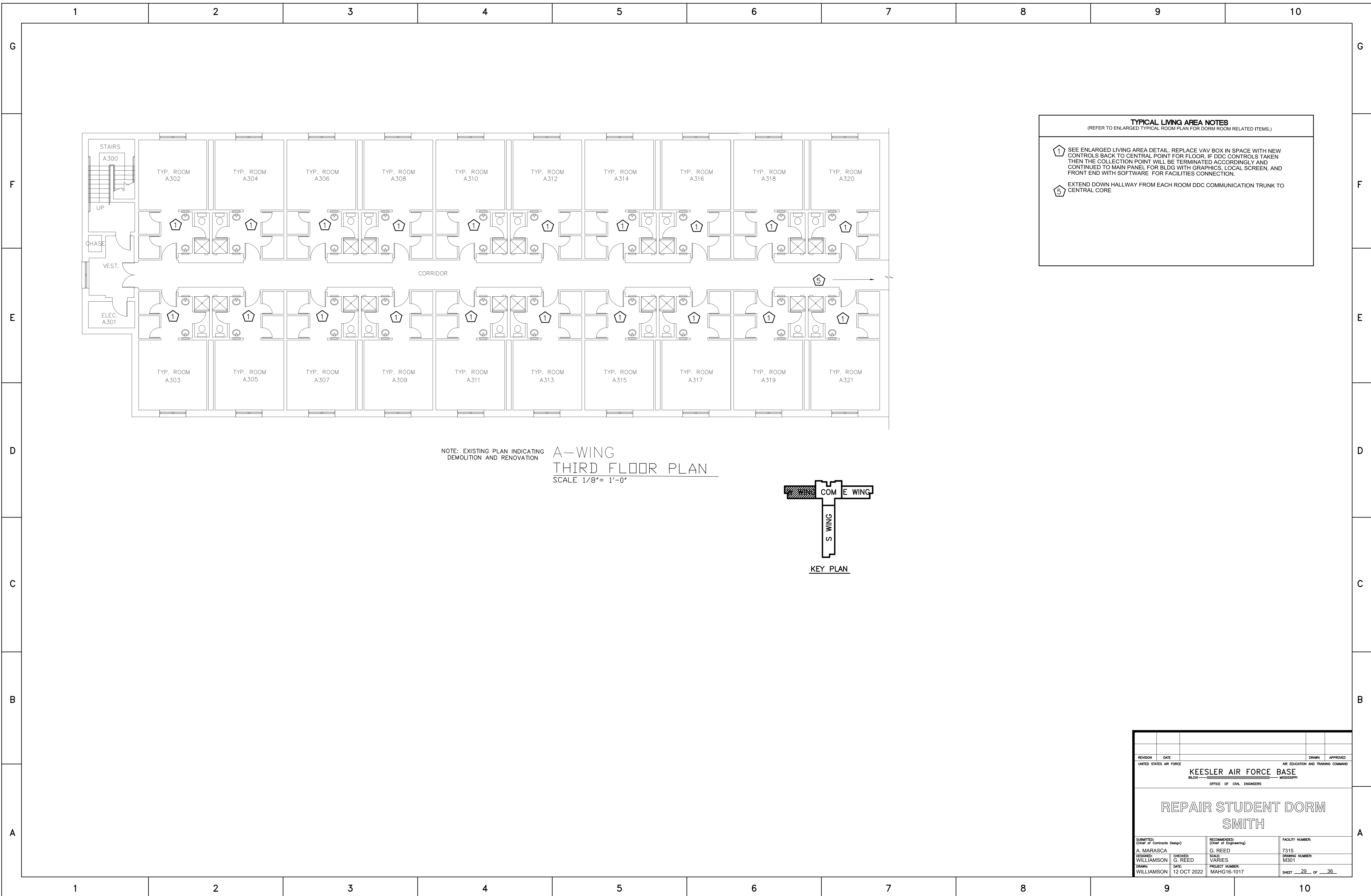
12x6

12x6



KEY PLAN

| | | | |
|---|---|---|---|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE KEESLER AIR FORCE BASE BLOOMINGVILLE, MISSISSIPPI OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: (Chief of Engineering) G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M300 SHEET 28 OF 38 |



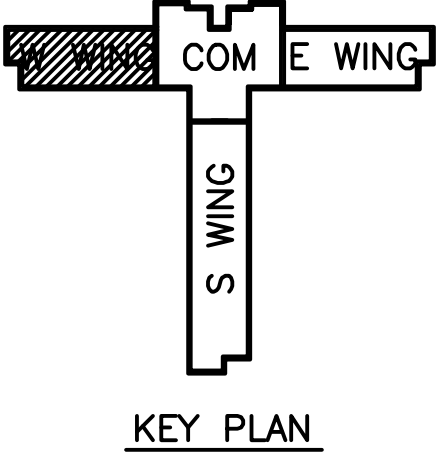
TYPICAL LIVING AREA NOTES
 (REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS.)

1 SEE ENLARGED LIVING AREA DETAIL. REPLACE VAV BOX IN SPACE WITH NEW CONTROLS BACK TO CENTRAL POINT FOR FLOOR. IF DDC CONTROLS TAKEN THEN THE COLLECTION POINT WILL BE TERMINATED ACCORDINGLY AND CONTINUED TO MAIN PANEL FOR BLDG WITH GRAPHICS, LOCAL SCREEN, AND FRONT END WITH SOFTWARE FOR FACILITIES CONNECTION.

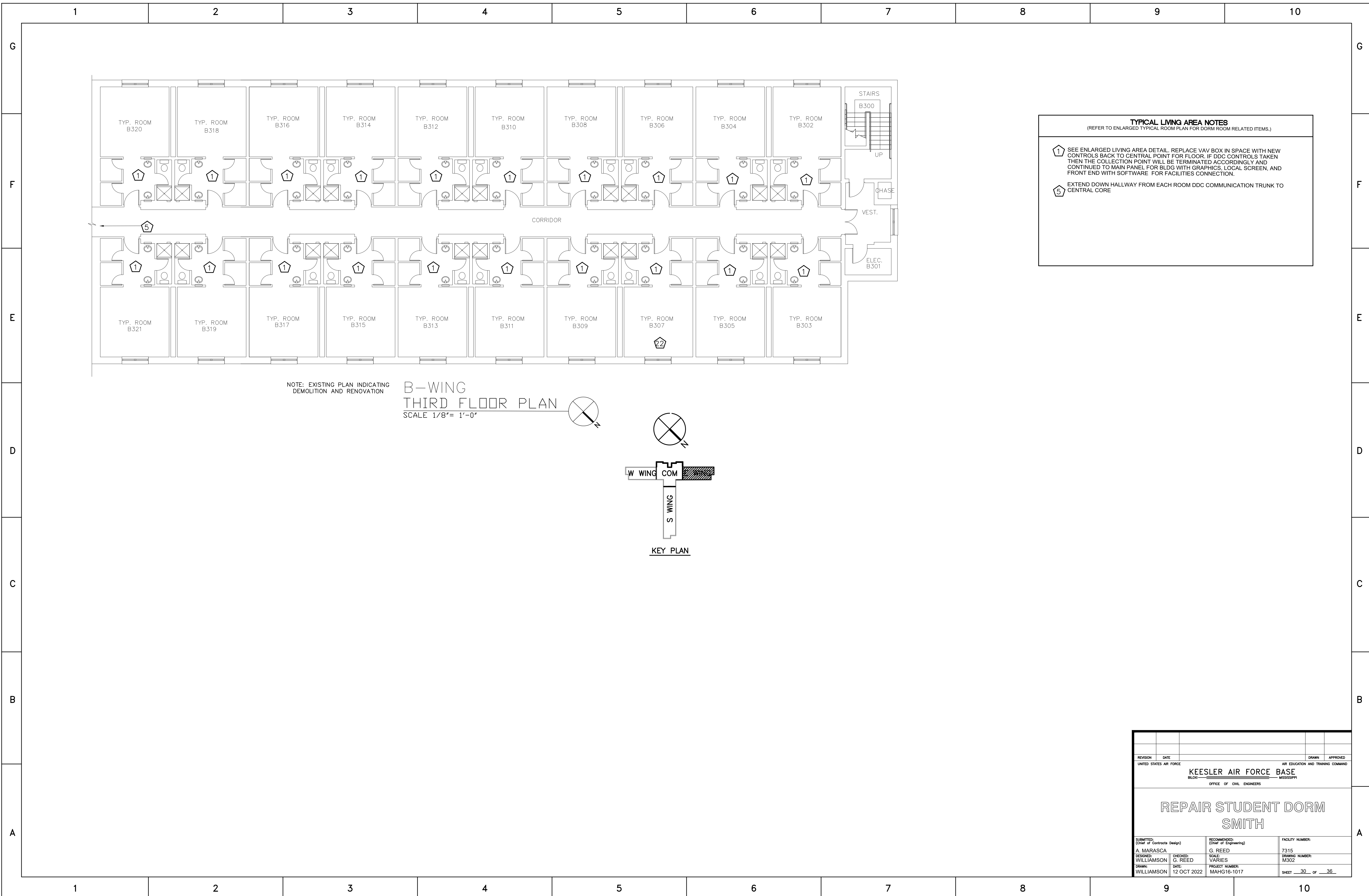
5 EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

**A-WING
 THIRD FLOOR PLAN**
 SCALE 1/8" = 1'-0"



| | | | |
|---|---|---|---|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGTON, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M301 SHEET 29 of 36 |



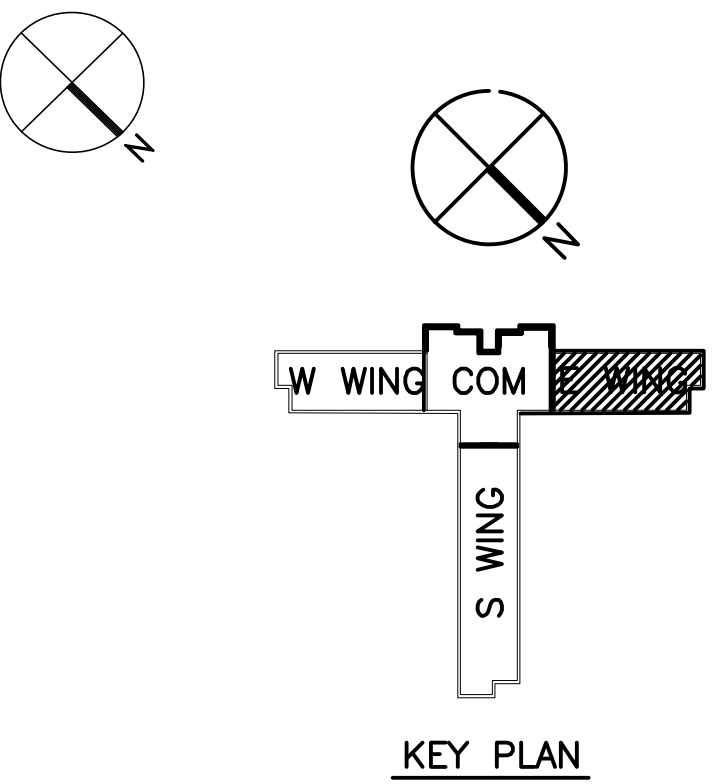
TYPICAL LIVING AREA NOTES
 (REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS.)

1 SEE ENLARGED LIVING AREA DETAIL. REPLACE VAV BOX IN SPACE WITH NEW CONTROLS BACK TO CENTRAL POINT FOR FLOOR. IF DDC CONTROLS TAKEN THEN THE COLLECTION POINT WILL BE TERMINATED ACCORDINGLY AND CONTINUED TO MAIN PANEL FOR BLDG WITH GRAPHICS, LOCAL SCREEN, AND FRONT END WITH SOFTWARE FOR FACILITIES CONNECTION.

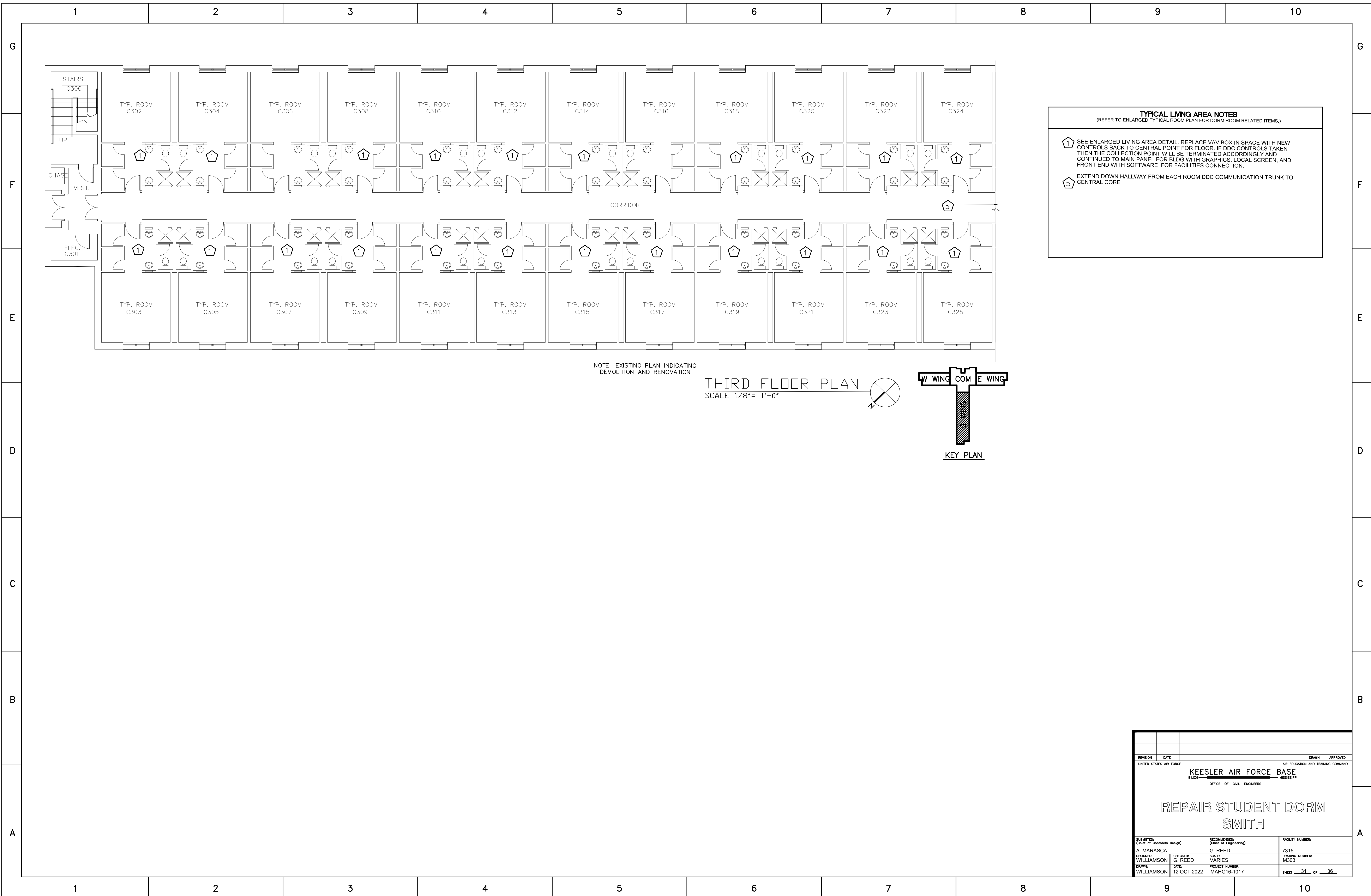
5 EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

**B-WING
 THIRD FLOOR PLAN**
 SCALE 1/8" = 1'-0"



| | | | |
|---|---|---|---|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGVILLE, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M302 SHEET <u>30</u> OF <u>36</u> |



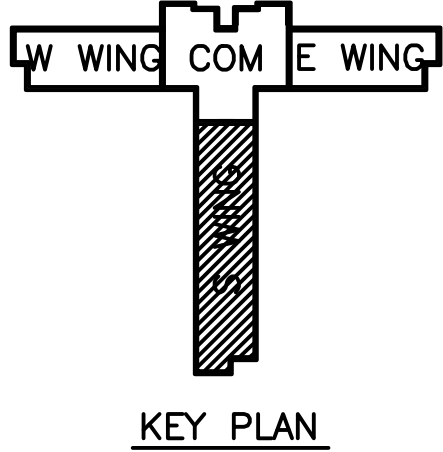
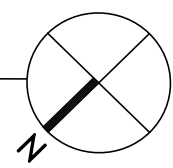
TYPICAL LIVING AREA NOTES
(REFER TO ENLARGED TYPICAL ROOM PLAN FOR DORM ROOM RELATED ITEMS.)

① SEE ENLARGED LIVING AREA DETAIL. REPLACE VAV BOX IN SPACE WITH NEW CONTROLS BACK TO CENTRAL POINT FOR FLOOR. IF DDC CONTROLS TAKEN THEN THE COLLECTION POINT WILL BE TERMINATED ACCORDINGLY AND CONTINUED TO MAIN PANEL FOR BLDG WITH GRAPHICS, LOCAL SCREEN, AND FRONT END WITH SOFTWARE FOR FACILITIES CONNECTION.

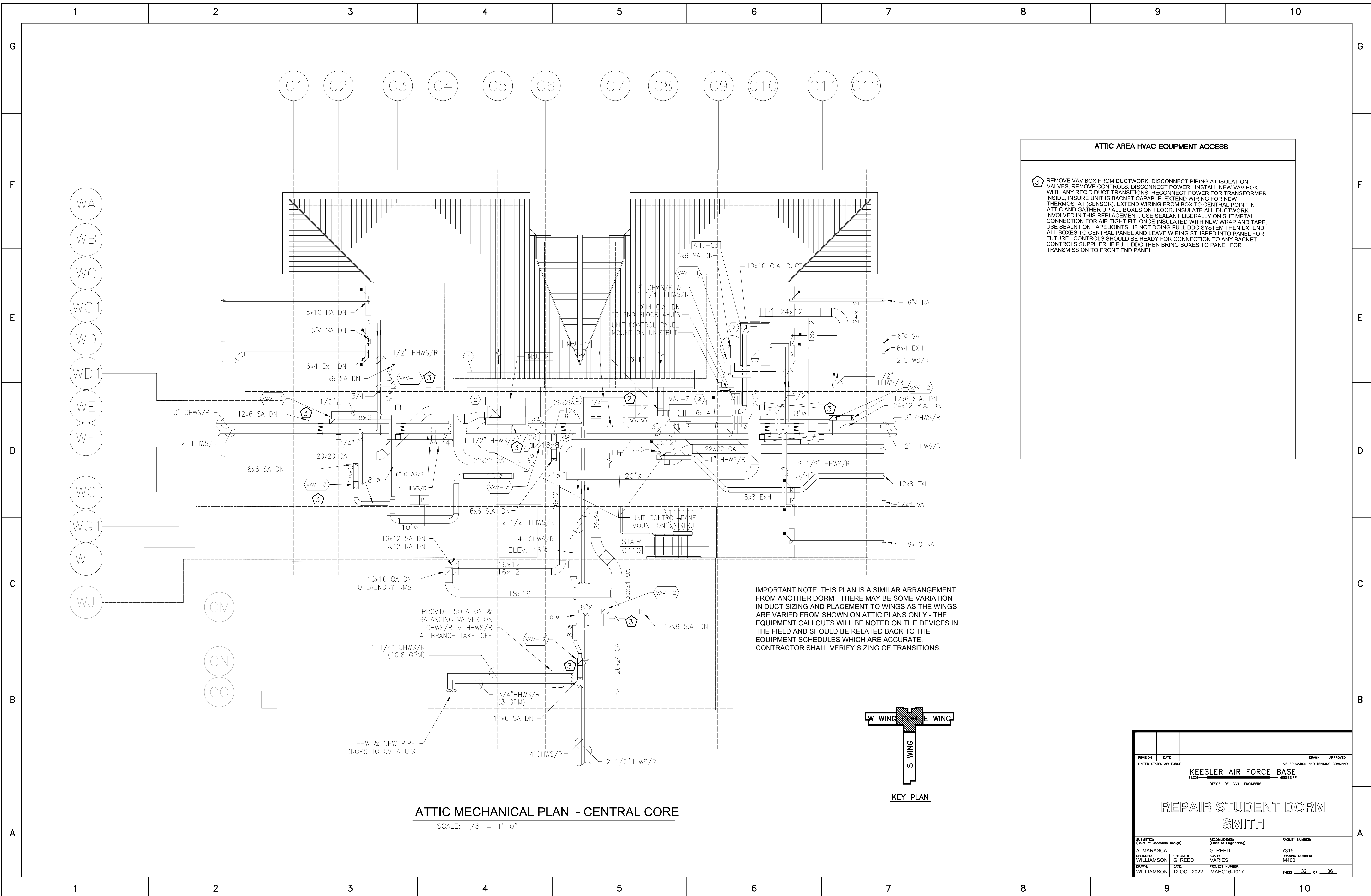
⑤ EXTEND DOWN HALLWAY FROM EACH ROOM DDC COMMUNICATION TRUNK TO CENTRAL CORE

NOTE: EXISTING PLAN INDICATING DEMOLITION AND RENOVATION

THIRD FLOOR PLAN
SCALE 1/8" = 1'-0"



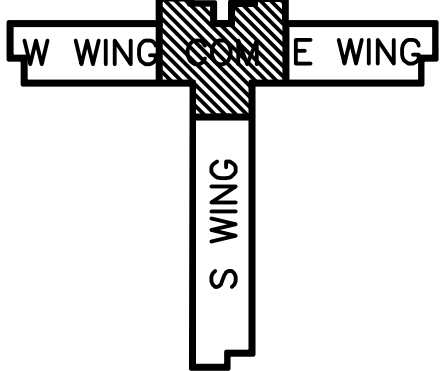
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|---|-------------------------|--------------------------------|------------------------------|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGTON, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA (Chief of Contracts Design) | DESIGNED: WILLIAMSON | CHECKED: G. REED | DATE: 12 OCT 2022 |
| RECOMMENDED: G. REED (Chief of Engineering) | SCALE: VARIES | PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 |
| DRAWING NUMBER: M303 | | | SHEET <u>31</u> OF <u>36</u> |



ATTIC AREA HVAC EQUIPMENT ACCESS

3 REMOVE VAV BOX FROM DUCTWORK. DISCONNECT PIPING AT ISOLATION VALVES. REMOVE CONTROLS. DISCONNECT POWER. INSTALL NEW VAV BOX WITH ANY REQ'D DUCT TRANSITIONS. RECONNECT POWER FOR TRANSFORMER INSIDE. INSURE UNIT IS BACNET CAPABLE. EXTEND WIRING FOR NEW THERMOSTAT (SENSOR). EXTEND WIRING FROM BOX TO CENTRAL POINT IN ATTIC AND GATHER UP ALL BOXES ON FLOOR. INSULATE ALL DUCTWORK INVOLVED IN THIS REPLACEMENT. USE SEALANT LIBERALLY ON SHIT METAL CONNECTION FOR AIR TIGHT FIT. ONCE INSULATED WITH NEW WRAP AND TAPE, USE SEALANT ON TAPE JOINTS. IF NOT DOING FULL DDC SYSTEM THEN EXTEND ALL BOXES TO CENTRAL PANEL. AND LEAVE WIRING STUBBED INTO PANEL FOR FUTURE. CONTROLS SHOULD BE READY FOR CONNECTION TO ANY BACNET CONTROLS SUPPLIER. IF FULL DDC THEN BRING BOXES TO PANEL FOR TRANSMISSION TO FRONT END PANEL.

IMPORTANT NOTE: THIS PLAN IS A SIMILAR ARRANGEMENT FROM ANOTHER DORM - THERE MAY BE SOME VARIATION IN DUCT SIZING AND PLACEMENT TO WINGS AS THE WINGS ARE VARIED FROM SHOWN ON ATTIC PLANS ONLY - THE EQUIPMENT CALLOUTS WILL BE NOTED ON THE DEVICES IN THE FIELD AND SHOULD BE RELATED BACK TO THE EQUIPMENT SCHEDULES WHICH ARE ACCURATE. CONTRACTOR SHALL VERIFY SIZING OF TRANSITIONS.

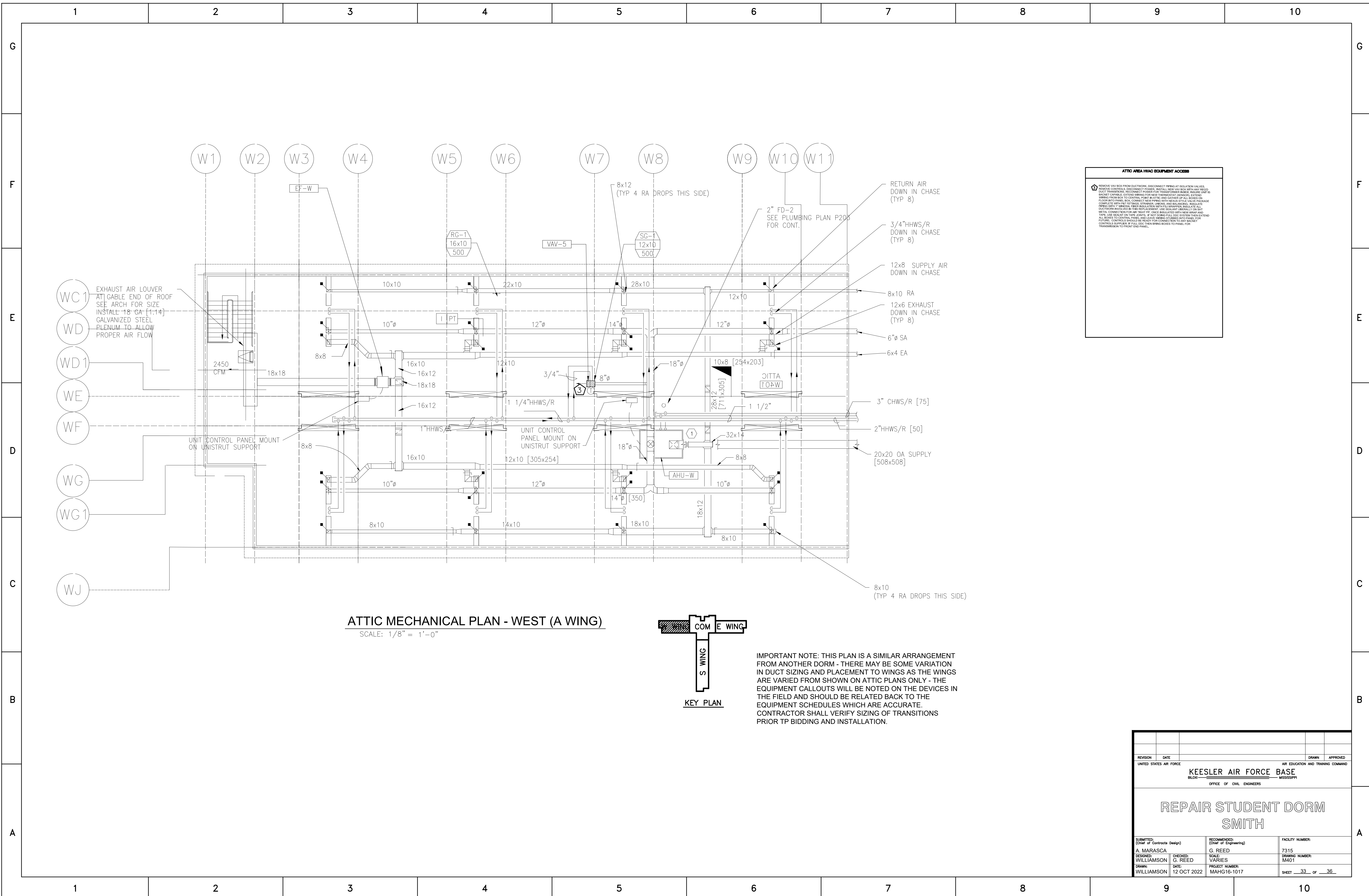


KEY PLAN

ATTIC MECHANICAL PLAN - CENTRAL CORE

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

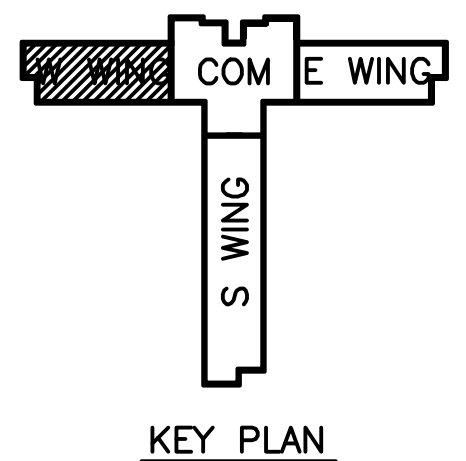
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| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE KEESLER AIR FORCE BASE BLOOMINGVILLE, MISSISSIPPI OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | RECOMMENDED: (Chief of Engineering) G. REED CHECKED: G. REED DATE: 12 OCT 2022 | SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M400 SHEET 32 OF 36 |



ATTIC AREA HVAC EQUIPMENT ACCESS

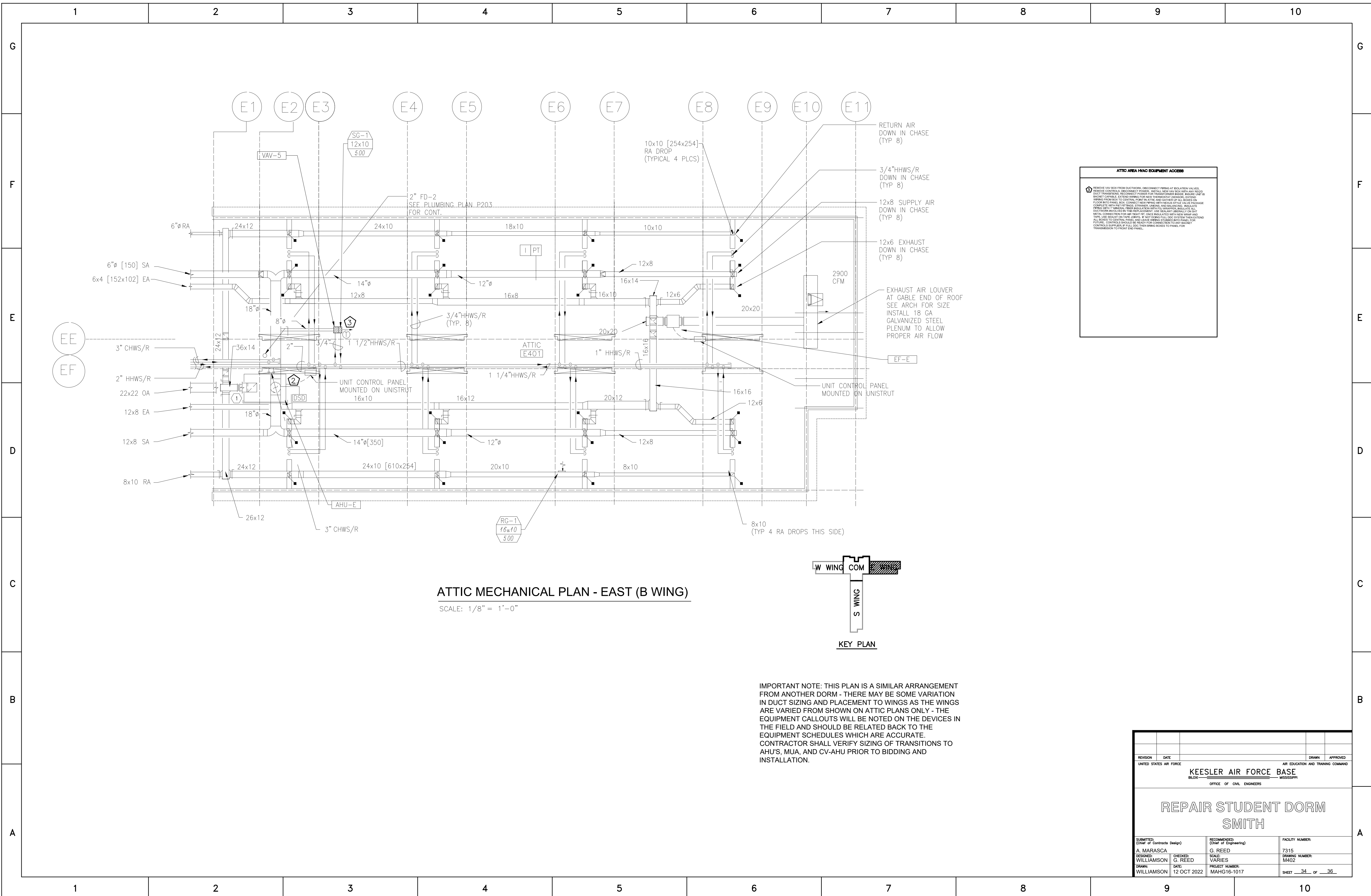
REMOVE VAV BOX FROM DUCTWORK. DISCONNECT PIPING AT ISOLATION VALVES. REMOVE CONTROLS. DISCONNECT POWER. INSTALL NEW VAV BOX WITH AN REED. DUCT TRANSITION. RECONNECT POWER FOR TRANSFORMER RISE. REMOVE UNIT ISOLATION. REMOVE EXISTING WIRING FOR NEW TRANSFORMER. DETACH EXISTING WIRING FROM BOX TO CONTROL PANEL. REMOVE AND LATHER UP ALL DUCTS ON FLOOR AND PANEL. DISCONNECT NEW PIPING WITH NEARBY STYLE VALVE PACKAGE. COMPLETE WITH NEW TESTING STRAPERS. LABEL AND MARKING. ISOLATE. DETACH WITH A MINERAL FIBER INSULATION WITH FLEXADAPTOR. INSULATE ALL DUCTWORK INCLUDING BY THE HIGH POINT. USE SEALANT BETWEEN DUCT JOINTS. USE SEALANT ON THE JOINTS. IF NOT USING FULL DUCT SYSTEM THEN EXTEND PIPING. CONTROLS SHOULD BE READY FOR CONNECTION TO ANY GARNET. PIPING. CONTROLS SHOULD BE READY FOR CONNECTION TO ANY GARNET. CONTROLS SUPPLIER. # FULL DUCT SYSTEMS SHOULD BE READY FOR TRANSFER TO FRONT END PANEL.

ATTIC MECHANICAL PLAN - WEST (A WING)
SCALE: 1/8" = 1'-0"



IMPORTANT NOTE: THIS PLAN IS A SIMILAR ARRANGEMENT FROM ANOTHER DORM - THERE MAY BE SOME VARIATION IN DUCT SIZING AND PLACEMENT TO WINGS AS THE WINGS ARE VARIED FROM SHOWN ON ATTIC PLANS ONLY - THE EQUIPMENT CALLOUTS WILL BE NOTED ON THE DEVICES IN THE FIELD AND SHOULD BE RELATED BACK TO THE EQUIPMENT SCHEDULES WHICH ARE ACCURATE. CONTRACTOR SHALL VERIFY SIZING OF TRANSITIONS PRIOR TP BIDDING AND INSTALLATION.

| | | | |
|---|--|--|---|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGVILLE MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | RECOMMENDED: G. REED CHECKED: G. REED DATE: 12 OCT 2022 | SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M401 SHEET <u>33</u> OF <u>36</u> |

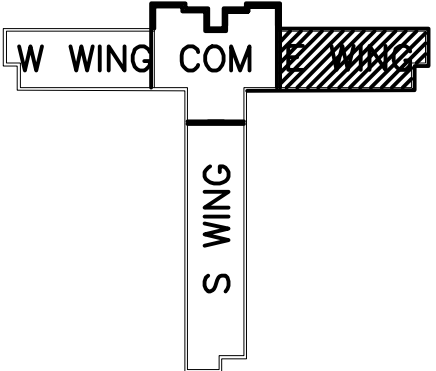


ATTIC AREA HVAC EQUIPMENT ACCESS

REMOVE VAV BOX FROM DUCTWORK. DISCONNECT PIPING AT ISOLATION VALVES. REMOVE CONTROLS. DISCONNECT POWER. INSTALL NEW VAV BOX WITH ANY REPAIRS. DUCT TRANSITIONS. RECONNECT POWER FOR TRANSFORMER BRIDGE. REMOVE VAV BOX. SOCKET CONTROLS. DISCONNECT POWER FOR TRANSFORMER BRIDGE. DISCONNECT WIRING FROM BOX TO CENTRAL POINT IN ATTIC AND GATHER UP ALL BOXES ON FLOOR TO PANELS. BOX. CONNECT NEW PIPING TO EXISTING PIPING. COMPLETE WITH FITTINGS. SHIMMING. DRIVING AND BALANCING. INSTALL PIPING WITH 1/2" SPREAD. FREEZE ISOLATION WITH 1/2" VAPOR BARRIER. INSULATE DUCTWORK EXPOSED BY THIS REVISION. (SEE SCHEDULES) INSTALL METAL CONNECTION FOR AIR TIGHT FIT. ONCE INSULATED WITH NEW WIRING AND TAPES USE ISOLATION ON THIS JOINTS. IF NOT FORMING FULL JOINT THIS IS EXTEND ALL WIRING TO CONTROL PANEL AND LEAVE WIRING TO BE RECONNECTED TO PANEL FOR FUTURE. CONTROLS SHOULD BE READY FOR CONNECTION TO ANY FACILITY CONTROLS SUPPLIES IF FULL LOCK THIS WIRING BOX TO PANEL FOR TRANSMISSION TO FRONT END PANEL.

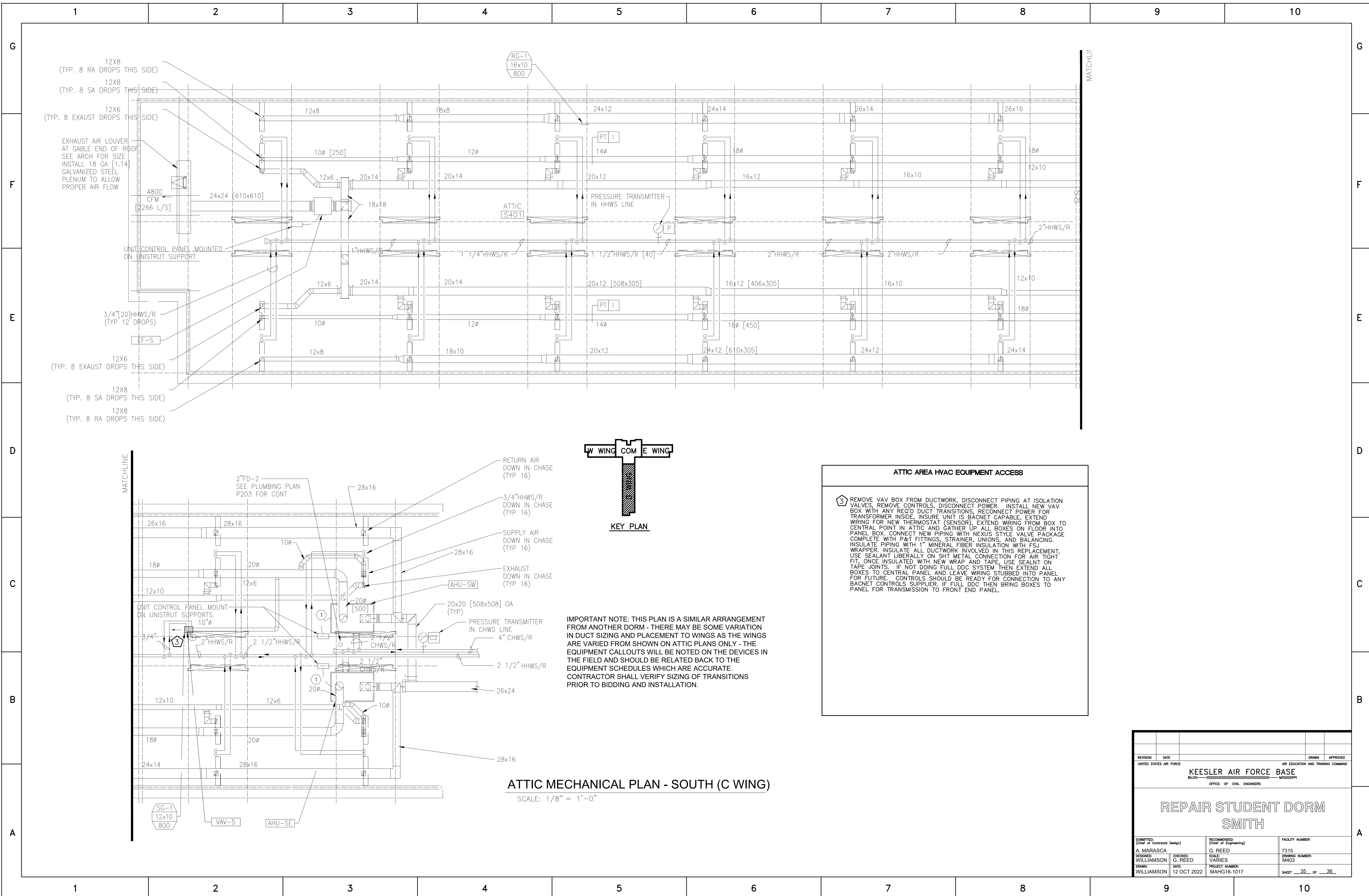
ATTIC MECHANICAL PLAN - EAST (B WING)

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



IMPORTANT NOTE: THIS PLAN IS A SIMILAR ARRANGEMENT FROM ANOTHER DORM - THERE MAY BE SOME VARIATION IN DUCT SIZING AND PLACEMENT TO WINGS AS THE WINGS ARE VARIED FROM SHOWN ON ATTIC PLANS ONLY - THE EQUIPMENT CALLOUTS WILL BE NOTED ON THE DEVICES IN THE FIELD AND SHOULD BE RELATED BACK TO THE EQUIPMENT SCHEDULES WHICH ARE ACCURATE. CONTRACTOR SHALL VERIFY SIZING OF TRANSITIONS TO AHU'S, MUA, AND CV-AHU PRIOR TO BIDDING AND INSTALLATION.

| | | | |
|---|---|---|---|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOOMINGVILLE, MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: (Chief of Engineering) G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M402 SHEET 34 of 38 |



ATTIC AREA HVAC EQUIPMENT ACCESS

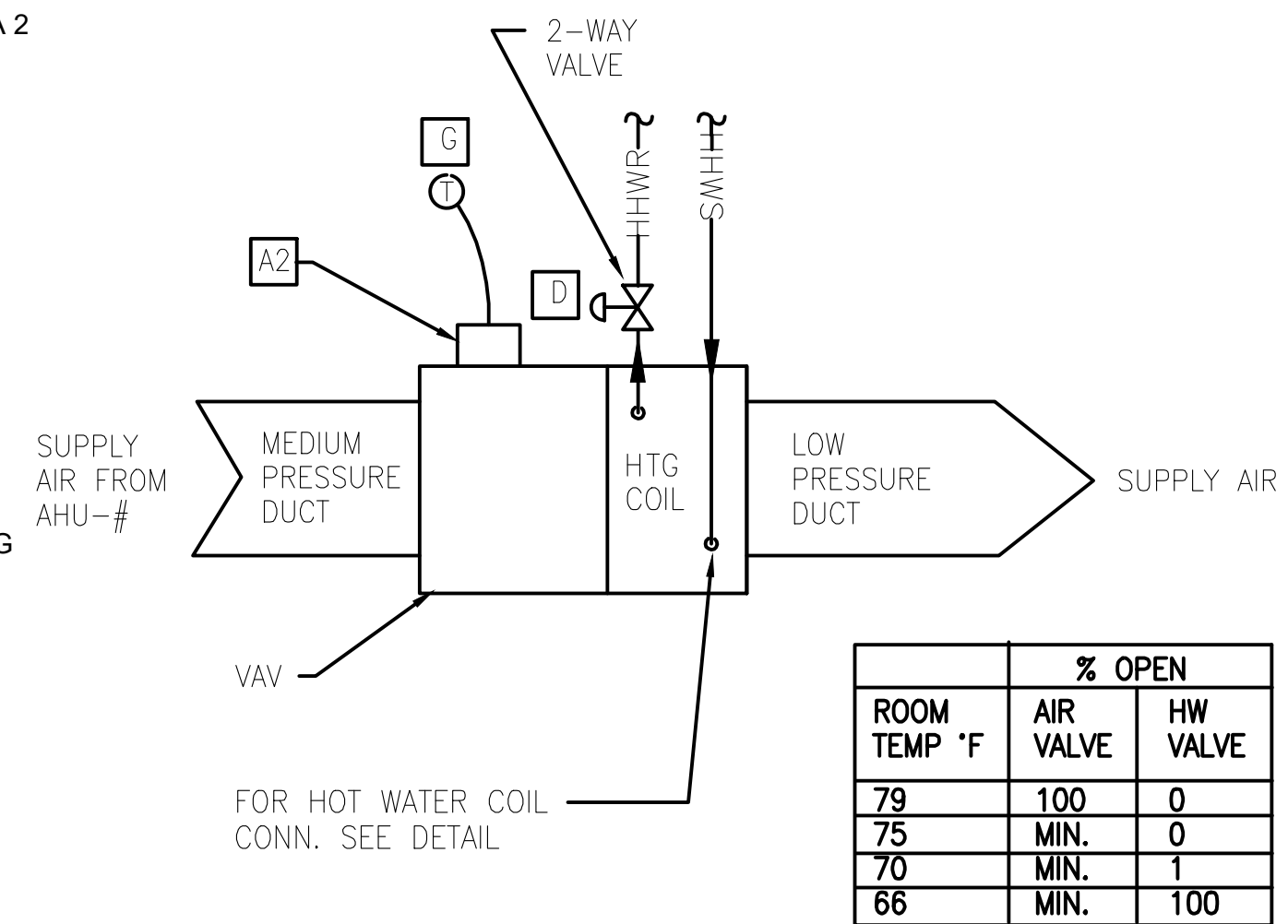
3 REMOVE VAV BOX FROM DUCTWORK, DISCONNECT PIPING AT ISOLATION VALVES, REMOVE CONTROLS, DISCONNECT POWER. INSTALL NEW VAV BOX WITH ANY REQ'D DUCT TRANSITIONS, RECONNECT POWER FOR TRANSFORMER INSIDE. INSURE UNIT IS BACNET CAPABLE. EXTEND WIRING FOR NEW THERMOSTAT (SENSOR), EXTEND WIRING FROM BOX TO CENTRAL POINT IN ATTIC AND GATHER UP ALL BOXES ON FLOOR INTO PANEL BOX. CONNECT NEW PIPING WITH NEXUS STYLE VALVE PACKAGE COMPLETE WITH P&T FITTINGS, STRAINER, UNIONS, AND BALANCING. INSULATE PIPING WITH 1" MINERAL FIBER INSULATION WITH FSJ WRAPPER. INSULATE ALL DUCTWORK INVOLVED IN THIS REPLACEMENT, USE SEALANT LIBERALLY ON SHIT METAL CONNECTION FOR AIR TIGHT FIT, ONCE INSULATED WITH NEW WRAP AND TAPE, USE SEALANT ON TAPE JOINTS. IF NOT DOING FULL DDC SYSTEM THEN EXTEND ALL BOXES TO CENTRAL PANEL AND LEAVE WIRING STUBBED INTO PANEL FOR FUTURE. CONTROLS SHOULD BE READY FOR CONNECTION TO ANY BACNET CONTROLS SUPPLIER. IF FULL DDC THEN BRING BOXES TO PANEL FOR TRANSMISSION TO FRONT END PANEL.

| REVISION | DATE | DRAWN | APPROVED |
|--|---|--------------------------------|---|
| UNITED STATES AIR FORCE KEESLER AIR FORCE BASE <small>BLOOMINGTON, MISSISSIPPI</small> OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA (Chief of Contracts Design) | CHECKED: G. REED (Chief of Engineering) | SCALE: VARIES | FACILITY NUMBER: 7315 DRAWING NUMBER: M403 |
| DESIGNED: WILLIAMSON | DATE: 12 OCT 2022 | PROJECT NUMBER: MAHG16-1017 | SHEET: 35 OF 38 |

CONTROLS
 EACH ROOM/ZONE THERMOSTAT SHALL BE ADJUSTABLE BY THE OCCUPANT TO WITHIN A 2 DEGREE RANGE OF THE DDC SETPOINT. THE SETPOINT, AND THE SIZE OF THE LIMITED RANGE SHALL BE ESTABLISHED AT THE FRONT END.

VAV BOXES

OCCUPIED MODE: WHEN THE ROOM OR ZONE AIR TEMPERATURE RISES TO ABOVE SETPOINT, THE VAV AIR VALVE MODULATES OPEN TO MAINTAIN THE SPACE TEMPERATURE. WHEN THE ROOM OR ZONE AIR DROPS BELOW THE SETPOINT, THE VAV AIR VALVE SHALL CLOSE. WHEN THE VAV AIR VALVE IS AT MINIMUM POSITION, THE HEATING VALVE SHALL MODULATE OPEN.



VAV CONTROL SCHEMATIC
 SCALE: NONE

| | | | |
|---|---|---|---|
| REVISION | DATE | DRAWN | APPROVED |
| UNITED STATES AIR FORCE | | | |
| KEESLER AIR FORCE BASE | | | |
| BLOW ————— MISSISSIPPI | | | |
| OFFICE OF CIVIL ENGINEERS | | | |
| REPAIR STUDENT DORM SMITH | | | |
| SUBMITTED: A. MARASCA DESIGNED: WILLIAMSON DRAWN: WILLIAMSON | CHECKED: G. REED DATE: 12 OCT 2022 | RECOMMENDED: (Chief of Engineering) G. REED SCALE: VARIES PROJECT NUMBER: MAHG16-1017 | FACILITY NUMBER: 7315 DRAWING NUMBER: M600 SHEET <u>36</u> of <u>36</u> |