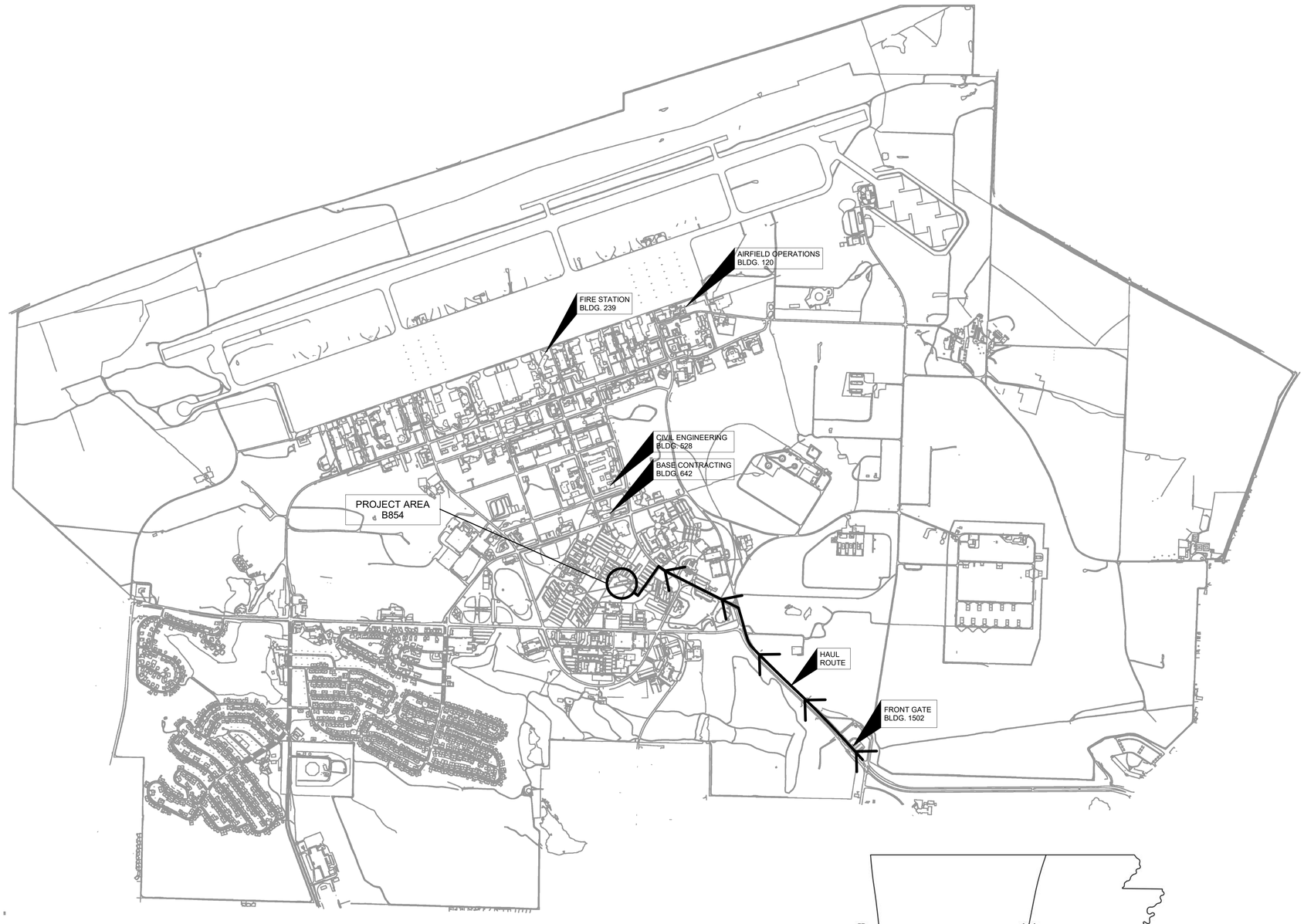
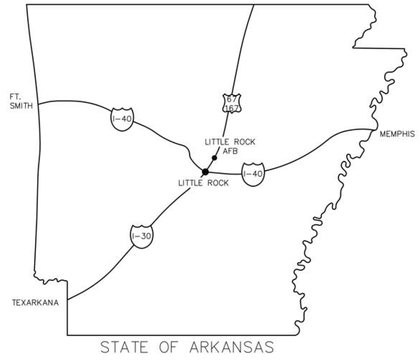
LITTLE ROCK AIR FORCE BASE, ARKANSAS



LOCATION PLAN

1000' 0' 1000' 2000'

GRAPHIC SCALE
1" = 1000' FOR 24"X36" SHEET



STATE OF ARKANSAS

THE APPROVAL AND COORDINATION SIGNATURES APPEARING IN THE TITLE BLOCK ON THIS SHEET CONSTITUTE APPROVAL OF ALL DRAWINGS LISTED IN THE INDEX.

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REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C167
STATE OF ARKANSAS
3/29/24

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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PHONE: 501-375-3380
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CIVIL ENGINEER	CHIEF ENGINEER
CHIEF OF OPERATIONS	BIO ENVIRONMENTAL
FIRE CHIEF	SAFETY
ENVIRONMENTAL	CONSTRUCTION MANAGER
PROGRAM MANAGER	USING AGENCY

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
LOCATION PLAN, INDEX OF DRAWINGS, AND VICINITY MAP

DRAWN BY	LEAD DESIGNER
HRS, BD, DR	C&A
TECH REVIEWER	PROJECT NUMBER
HRS	NKAK 21-1034
DESIGNED BY	SHEET
C&A	G0.00
DATE	
29 FEB. 2024	
SCALE	
AS NOTED	01 OF 100

FIRE STOPPING:
FIRE STOPPING MUST BE PERFORMED BY A PERSON TRAINED BY A PRODUCT MANUFACTURER REPRESENTATIVE FOR THE PRODUCT TO BE USED.

FIRE STOPPING MUST BE SPECIFIC TO THE PRODUCT BEING USED AND THE TYPE OF PENETRATION AND IN ACCORDANCE WITH THE MANUFACTURER LISTED ASSEMBLY CRITERIA.

FIRE RATED WALLS ARE TO BE STENCILED ABOVE CEILINGS IN ACCORDANCE WITH IBC 703.7. WHERE ACCESS IT NOT PROVIDED ABOVE CEILINGS, LABEL ON UTILITY CHASE SIDE.

LEGEND:

———	MINIMUM SMOKE RESISTIVE / SMOKE PARTITION FOR INCIDENTAL USE WHEN SPRINKLERED. SELF-CLOSING DOORS. NO RATING REQUIRED.
— 1HR — 1HR —	MINIMUM 30-MINUTE FIRE RATING BETWEEN RESIDENTIAL SLEEPING ROOMS
— 1HR — 1HR — 1HR —	MINIMUM 1-HOUR FIRE RESISTIVE WITH 45-MINUTE DOORS AND HARDWARE FOR LAUNDRY ROOMS. SEE LSC 8.3.3.2.2.
- - - - - -	TRAVEL PATH / DISTANCE INDICATED
	NOTE: FIRE RESISTANCE RATINGS SHOWN ARE MINIMUM. DUE TO SOUND REQUIREMENTS AND CONSTRUCTION CRITERIA, THE ARCHITECTURAL DRAWINGS MAY SHOW A HIGHER RATING.
FE-C+	FIRE EXTINGUISHER IN CABINET PER DISCUSSION WITH FIRE DEPARTMENT ON FEDERAL MANDATE. SEE LS.02 FOR CRITERIA.
EXIT	LED ILLUMINATED EXIT SIGN WITH BATTERY BACKUP

LIFE SAFETY CODE SUMMARY:
CODES: 2018 IBC; 2021 LSC; UFC 3-600-01 CHANGE 6 MAY, 2021;

OCCUPANCY: RESIDENTIAL DORMITORY LSC CH. 28; IBC R2
CONSTRUCTION TYPE: ORIGINAL TYPE V, DUE TO COMBUSTIBLE MATERIALS IN OLD ROOFING. WITH NEW ROOFING, COMBUSTIBLE WOOD TRUSSES ARE TO BE REMOVED TO AVOID ATTIC SPRINKLERS.
ACTUAL AREA PER FLOOR: ~12,500 FT2
ALLOWABLE AREAS PER FLOOR: 21,000 FT2
NUMBER OF STORIES PROVIDED: 3
NUMBER OF STORIES ALLOWED: 3
SPRINKLERS: YES, NFPA 13 2022 EDITION. NO ATTIC SPRINKLERS
FIRE ALARM & MNS: YES, NFPA 72 2022 AND ECB 2018-17
TRAVEL (LSC CH. 28, & CH. 7)
- COMMON PATH OF TRAVEL: 50' (DOES NOT INCLUDE TRAVEL WITHIN GUEST ROOM)
- DEAD END: 50'
- GUEST ROOMS > 2,000 FT2 SHALL HAVE 2 EXITS (NOT APPLICABLE)
- TRAVEL WITHIN GUEST ROOM TO CORRIDOR: 125'
- TRAVEL FROM GUEST ROOM DOOR TO EXTERIOR EXIT WAY: 200'

SEPARATION AND PROTECTION OF OUTSIDE STAIRS PER LSC 7.2.2.6.3 (1): RATING NOT REQUIRED WHEN TWO REMOTE OUTSIDE STAIRWAYS ARE PROVIDED.
MINIMUM STAIR WIDTH (BELOW HANDRAIL): 36" ALLOWING EACH STAIR TO SERVE 50 OCCUPANTS. TWO STAIRS @ 50 OCCUPANTS EACH ALLOW FOR 100 ACCUMULATIVE PER LSC 7.2.2.2.1.2(A) AND A.7.2.2.2.1.2(B).

FIRE EXTINGUISHERS ARE NOT REQUIRED PER LSC FOR THE OCCUPANCY AND UFC 3-600-01. PER REQUEST OF FIRE DEPARTMENT ONE CABINET AND ABC EXTINGUISHER WILL BE PROVIDED IN KITCHEN SPACE DUE TO RECENTLY ISSUED FEDERAL MANDATE AND SCOPE LIMITATIONS.

SUBDIVISION OF SPACES TO COMPLY WITH LSC 28.3.7. GUEST ROOMS MUST BE SEPARATED FROM OTHER GUEST ROOMS AND OTHER AREAS BY MINIMUM 30 MINUTES WITH 20 MINUTE DOORS.

EXTERIOR EXIT BALCONIES ARE IN ACCORDANCE WITH LSC 7.5.3. BALCONY OPENING PROTECTION IS NOT REQUIRED PER 7.5.3.3 DUE TO LOOPED TRAVEL / EXIT PATHS AROUND BUILDING.

FIRE BARRIERS AND SMOKE PARTITIONS TO BE PERMANENTLY IDENTIFIED WITHIN 15 FEET OF THE END OF EACH WALL AND AT 30 FOOT INTERVALS. LETTERS TO BE MINIMUM 3 INCHES IN HEIGHT WITH MINIMUM 3/8 INCH STROKE IN CONTRASTING COLOR. SEE NFPA 101, 8.2.2.5.

SEE E2.01 & E2.02 FOR INTERIOR AND EXTERIOR EMERGENCY LIGHTING.

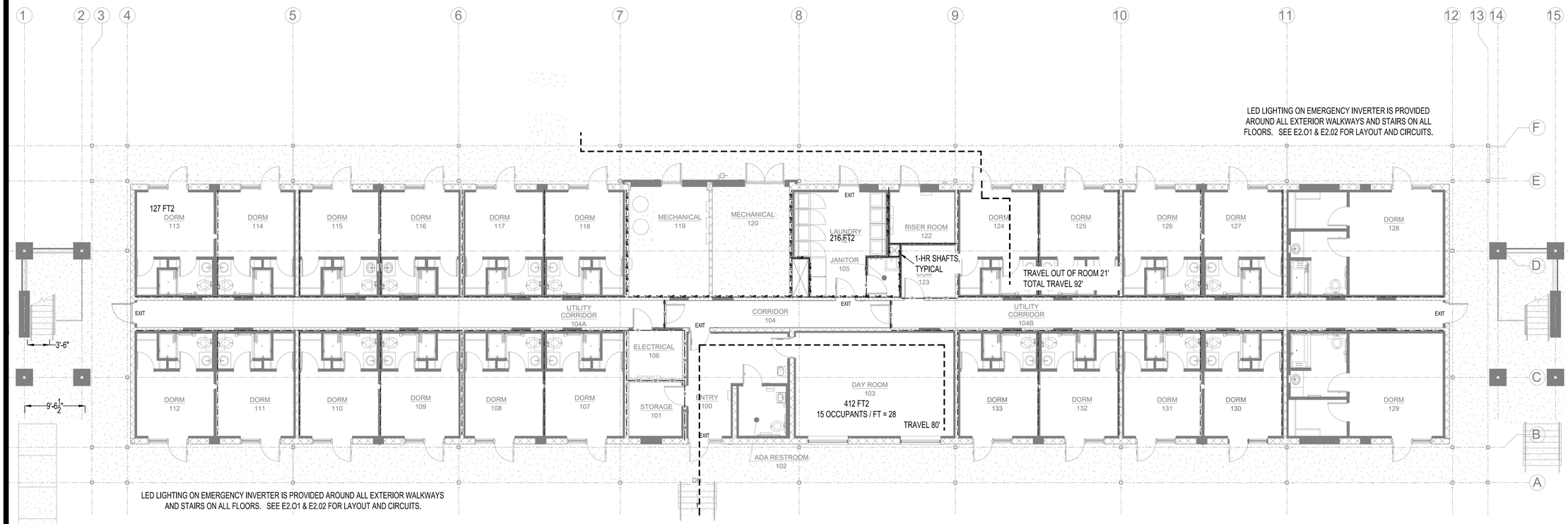
SEISMIC CRITERIA: (VERIFY WITH STRUCTURAL SHEETS FOR POTENTIAL CHANGES)
SITE CLASS: C
RISK CATEGORY: II

SITE CONDITIONS:
FIRE HYDRANTS ARE EXISTING TO REMAIN WITH NO CHANGES IN SCOPE.

FIRE DEPARTMENT VEHICLE ACCESS IS EXISTING TO REMAIN WITH NO CHANGES IN SCOPE. SIDEWALKS AND EXTERIOR STAIRS WILL BE REPLACED AND IMPROVE ACCESS.

UNDERGROUND SPRINKLER STUB-IN IS EXISTING TO REMAIN WITH NO CHANGES IN SCOPE. ALL ABOVE-GROUND PIPE WITHIN BUILDING FROM FLOOR FLANGE UP WILL BE REPLACED.

EXISTING FIRE DEPARTMENT CONNECTION LOCATION TO REMAIN ON BACK OF BUILDING.



1 LIFE SAFETY - FIRST FLOOR
1/8" = 1'

NORTH

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
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HGL Construction

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WWW.CLEMENTSARCHITECTS.COM

Registered Professional Engineer (Fire Protection)
CERTIFICATE NO. 37345
SCOTT WADE LACEY
02/29/2024
ARIZONA, USA

Lacey Fire Protection Engineering
WWW.LACEYFPE.COM

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
LIFE SAFETY - FIRST FLOOR PLAN

DRAWN BY: SL	LEAD DESIGNER: SL
TECH REVIEWER: SL	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: SL	SHEET: LS1.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	02 OF 100

OCCUPANTS THIS FLOOR:
26 - QUEST ROOMS
28 - DAY ROOM
2 - LAUNDRY
2 - KITCHEN
58 CALCULATED AREA WITH DAY ROOM, LAUNDRY, KITCHEN SERVICING THE SAME GUEST ROOM OCCUPANTS. AS SUCH, FLOOR OCCUPANT LOAD NOT ANTICIPATED TO EXCEED 50.

FIRE EXTINGUISHER AND CABINET:
PROVIDE MINIMUM 2A: 20B: C RECHARGEABLE FIRE EXTINGUISHER IN ACCORDANCE WITH NFPA 10 FOR ORDINARY HAZARD. EXTINGUISHER TO BE PROVIDED WITH PRESSURE GAUGE INDICATING CHARGE.

PROVIDE A WHITE, STEEL, POWDER-COATED / POLYESTER-COATED FIRE EXTINGUISHER CABINET WHERE INDICATED.

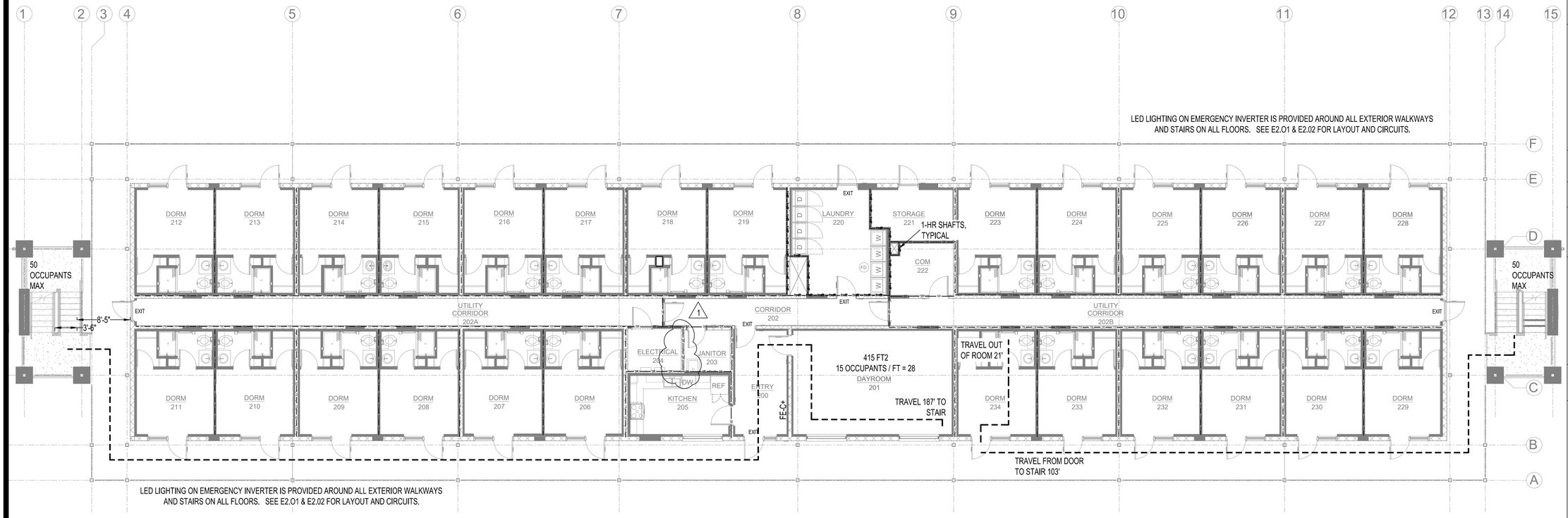
CABINET TO HAVE A CLEAR WINDOW TO VISUALLY VERIFY EXTINGUISHER IS PRESENT.

CABINET TO BE SEMI-RECESSED AT WALL FUR-OUT IF DEPTH WILL ACCOMMODATE. OTHERWISE SURFACE MOUNTED.

TOP OF CABINET TO BE MOUNTED TO ENSURE THAT NEITHER THE HANDLE TO OPEN OR THE TOP OF THE EXTINGUISHER WILL BE HIGHER THAN 48" ABOVE FINISHED FLOOR.

PROVIDE NECESSARY FRAMING/BLOCKING TO SECURE CABINET AT INDICATED LOCATION. COORDINATE WITH ARCHITECTURAL DRAWINGS AND FIRE ALARM LOCAL OPERATOR CONTROL PANEL TO BE MOUNTED IN SAME VICINITY.

PROVIDE ACROSS FROM 2ND FLOOR KITCHEN.



1 LIFE SAFETY - SECOND FLOOR
1/8" = 1'

NORTH

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HGL Construction

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Registered Professional Engineer (Fire Protection) CERTIFICATE NO. 37345 SCOTT WADE LACEY ARIZONA, USA 02/29/2024

Lacey Fire Protection Engineering WWW.LACEYFPE.COM

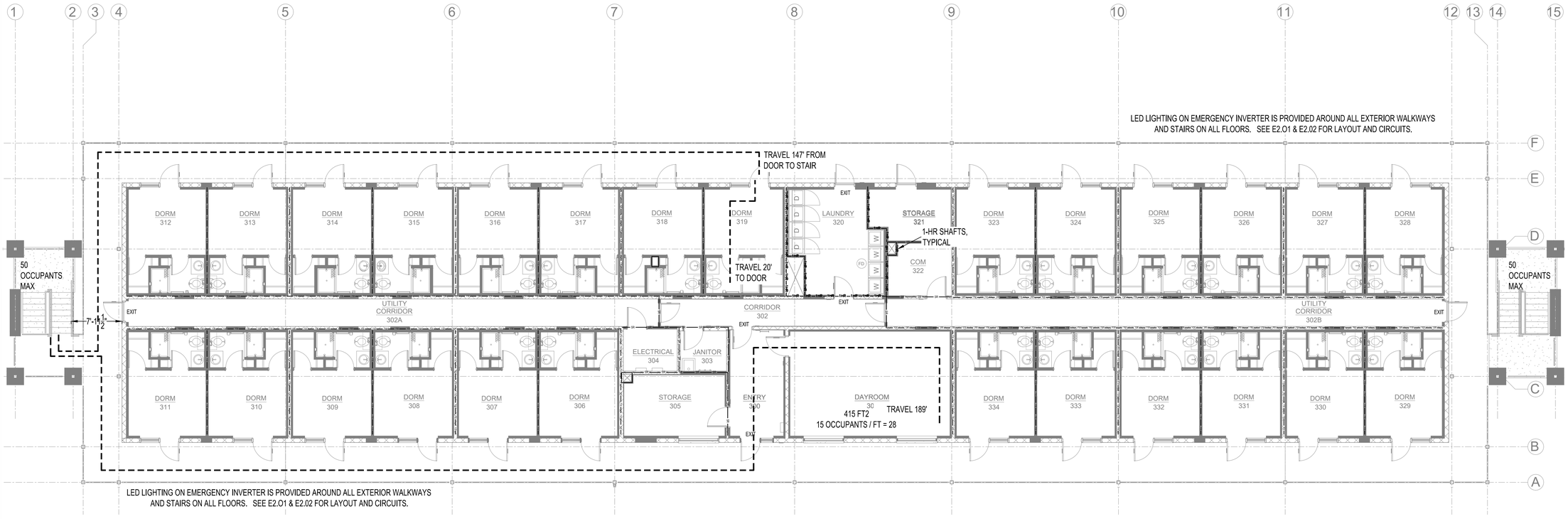
No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
LIFE SAFETY - SECOND FLOOR PLAN

DRAWN BY: SL	LEAD DESIGNER: SL
TECH REVIEWER: SL	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: SL	SHEET: LS1.02
DATE: 29 FEB. 2024	
SCALE: AS NOTED	03 OF 100

OCCUPANTS THIS FLOOR:
26 - QUEST ROOMS
28 - DAY ROOM
2 - LAUNDRY
2 - KITCHEN
58 CALCULATED AREA WITH DAY ROOM, LAUNDRY, KITCHEN SERVICING THE SAME GUEST ROOM OCCUPANTS. AS SUCH, FLOOR OCCUPANT LOAD NOT ANTICIPATED TO EXCEED 50.



1 LIFE SAFETY - THIRD FLOOR
1/8" = 1'

NORTH

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Registered Professional Engineer (Fire Protection) CERTIFICATE NO. 37345 SCOTT WADE LACEY ARIZONA, USA 02/29/2024

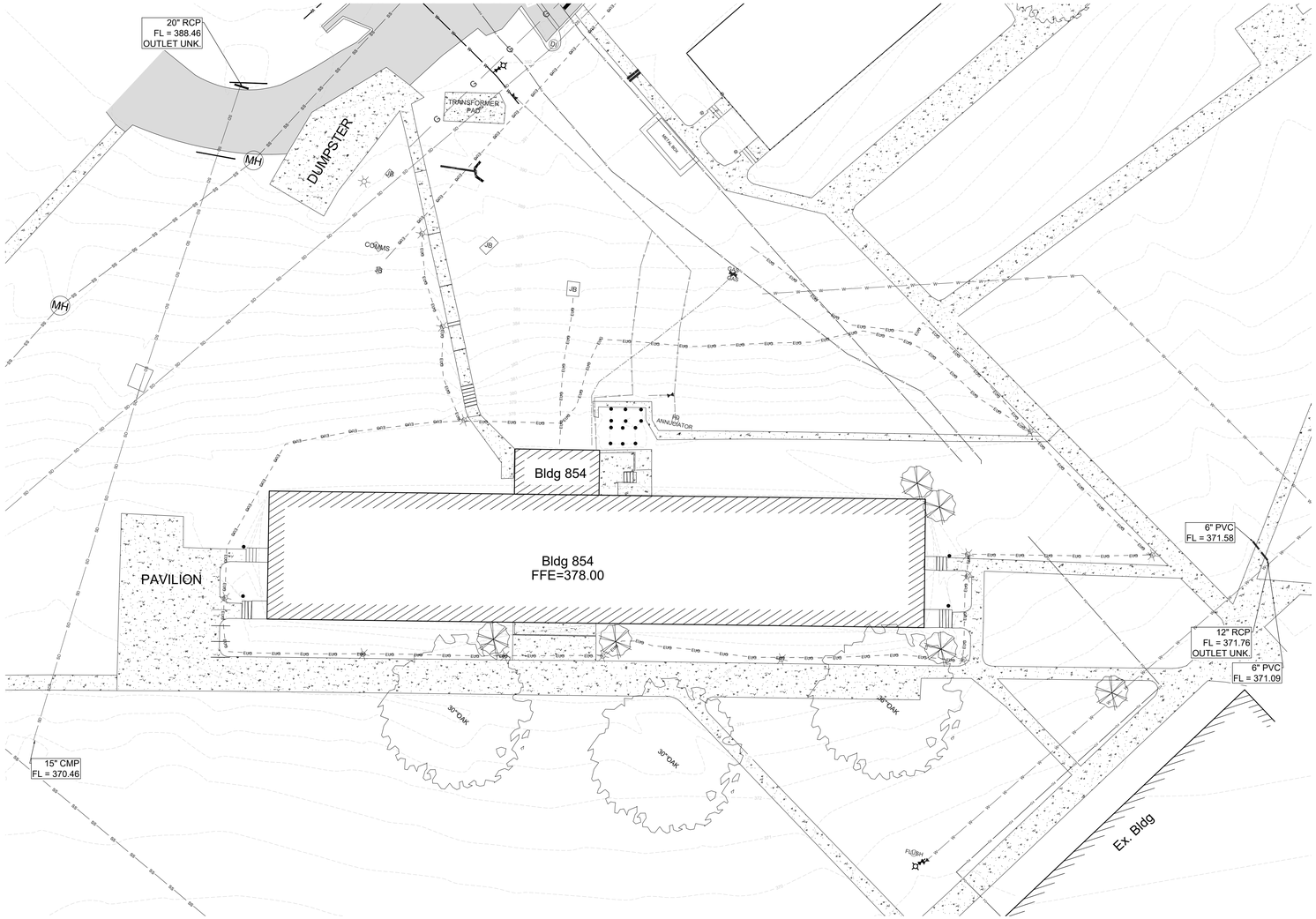
Lacey Fire Protection Engineering WWW.LACEYFPE.COM

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
LIFE SAFETY - THIRD FLOOR PLAN

DRAWN BY: SL	LEAD DESIGNER: SL
TECH REVIEWER: SL	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: SL	SHEET: LS1.03
DATE: 29 FEB. 2024	
SCALE: AS NOTED	04 OF 100



1 EXISTING CONDITIONS
SCALE: 1" = 20'

NORTH

20 0 20 40

Scale 1" = 20 ft

LEGEND:

- EXISTING CONTOUR LINE
- W — WATER LINE
- SD — STORM DRAIN LINE
- EUG — UNDERGROUND ELECTRIC
- SS — SANITARY SEWER
- G — GAS LINE
- FO — FIBER OPTIC
- WATER VALVE
- FIRE HYDRANT
- STORM INLET
- BOLLARD LIGHT
- JB — JUNCTION BOX
- SIDEWALK/CONCRETE

BOND CONSULTING ENGINEERS, INC.
2601 T. P. White Drive
Jacksonville, Arkansas 72076
Phone: (501) 982-1538 Fax: (501) 982-1530 E-mail: arobinson@bondce.com

Know what's below. Call before you dig.

BOND CONSULTING ENGINEERING, INC. NO. 112 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

CLEMENTS & ASSOCIATES
ARCHITECTURE, INC.
507 MAIN STREET
NORTH LITTLE ROCK, ARKANSAS 72114
PHONE: 501-375-3380
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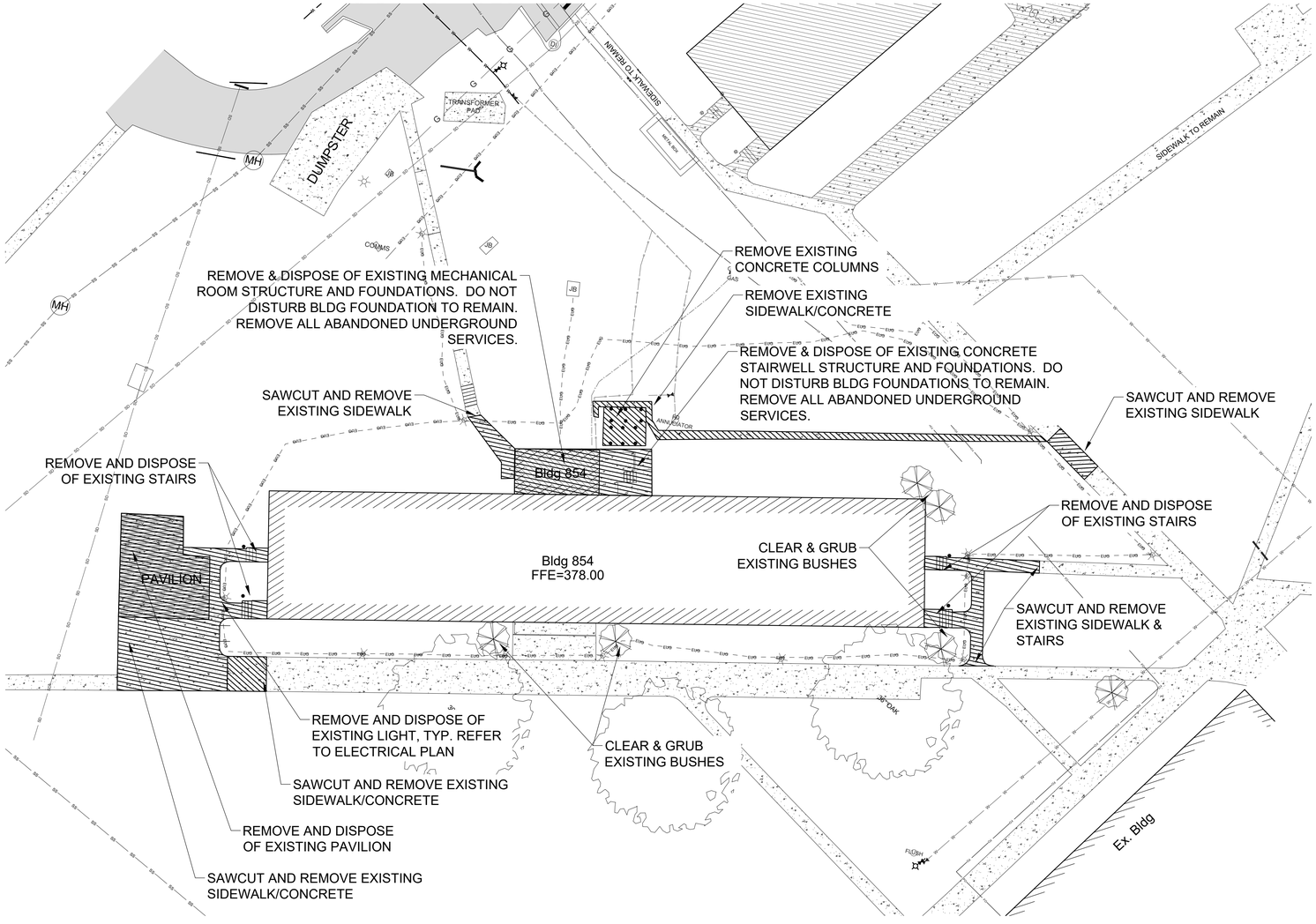
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11298
AARON K ROBINSON
02-29-24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: EXISTING CONDITIONS

DRAWN BY: AR	LEAD DESIGNER: AR
TECH REVIEWER: AR	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AR	SHEET: C1.00
DATE: 29 FEB 2024	
SCALE: AS NOTED	05 OF 100





20 0 20 40

Scale 1" = 20 ft

GENERAL NOTES:

1. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY OF THE EMPLOYEES INVOLVED WITH THIS PROJECT AND TO THE GENERAL PUBLIC. THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE OSHA REQUIREMENTS FOR WORKER PROTECTION.
2. ALL REMOVED MATERIALS THAT CAN BE RECYCLED, SHALL BE RECYCLED. THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT MATERIALS WERE RECYCLED AND NOT PLACED IN A LANDFILL. COORDINATE WITH LRAFB FOR DELIVERY OF RECYCLING CONTAINERS 48 HOURS PRIOR TO DELIVERY TIME: 501-987-6611.
3. PRIOR TO DISCONNECTION SERVICES, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGEMENT 48 HOURS IN ADVANCE.
4. ALL SIDEWALK, CONCRETE SLABS, FOUNDATIONS, ETC. WITHIN THE AREA DELINEATED SHALL BE DEMOLISHED AND REMOVED.
5. THE CONTRACTOR SHALL FIELD LOCATE THE EXISTING GAS, WATER, AND SEWER LINES TO THE BUILDING.
6. REFER TO ELECTRICAL PLANS FOR SIDEWALK LIGHTING.



WEST SIDE



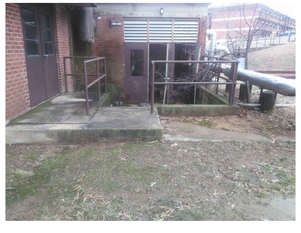
EAST SIDE



NORTH SIDE



SOUTH SIDE/PAVILION



WEST SIDE

LEGEND:

- EXISTING CONTOUR LINE
- W — WATER LINE
- SD — STORM DRAIN LINE
- EUG — UNDERGROUND ELECTRIC
- SS — SANITARY SEWER
- G — GAS LINE
- FO — FIBER OPTIC
- WATER VALVE
- FIRE HYDRANT
- STORM INLET
- BOLLARD LIGHT
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BOND CONSULTING ENGINEERS, INC.
2601 T. P. White Drive
Jacksonville, Arkansas 72076
Phone: (501) 982-1538 Fax: (501) 982-1530 E-mail: arobinson@bondce.com

811 Know what's below. Call before you dig.

CERTIFICATE OF AUTHORIZATION — BOND CONSULTING ENGINEERING, INC. NO. 112 — ARKANSAS ENGINEER

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
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HGL Construction

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PHONE: 501-375-3380
WWW.CLEMENTSARCHITECTS.COM

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 11298 — ANTON K. ROBINSON

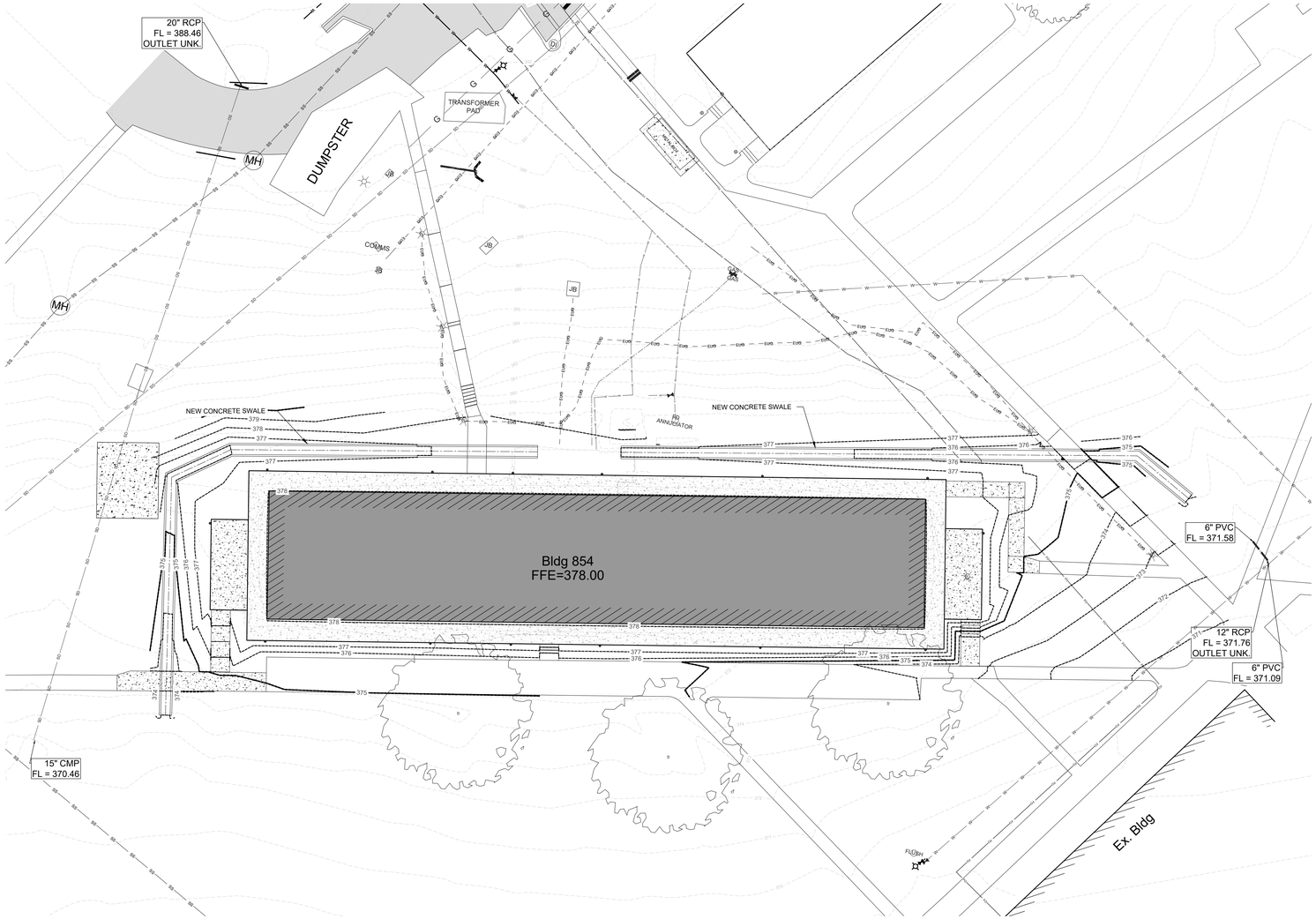
02-29-24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: DEMOLITION PLAN

DRAWN BY: AR	LEAD DESIGNER: AR
TECH REVIEWER: AR	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AR	SHEET: C1.01
DATE: 29 FEB. 2024	06 OF 100
SCALE: AS NOTED	



1 CIVIL SITE PLAN
SCALE: 1" = 20'



GENERAL NOTES:

1. SITE CIVIL WORK INCLUDES GRADING ALONG THE NORTHERN FACE ALONG WITH AREAS DRAINS AND STORM DRAINAGE PIPING. STORM DRAINAGE PIPING TO THE WEST TO TIE INTO EXISTING DRAINAGE INFRASTRUCTURE. SIDEWALKS WILL BE MODIFIED TO ADDRESS ACCESSIBLE PATHS.

LEGEND:

- EXISTING CONTOUR LINE
- W — WATER LINE
- SD — STORM DRAIN LINE
- EUG — UNDERGROUND ELECTRIC
- SS — SANITARY SEWER
- G — GAS LINE
- FO — FIBER OPTIC
- WATER VALVE
- FIRE HYDRANT
- STORM INLET
- BOLLARD LIGHT
- JUNCTION BOX
- SIDEWALK/CONCRETE

BOND CONSULTING ENGINEERS, INC.
2601 T. P. White Drive
Jacksonville, Arkansas 72076
Phone: (501) 982-1538 Fax: (501) 982-1530 E-mail: arobinson@bondce.com

Know what's below. Call before you dig.

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LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

CLEMENTS & ASSOCIATES
ARCHITECTURE, INC.
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NORTH LITTLE ROCK, ARKANSAS 72114
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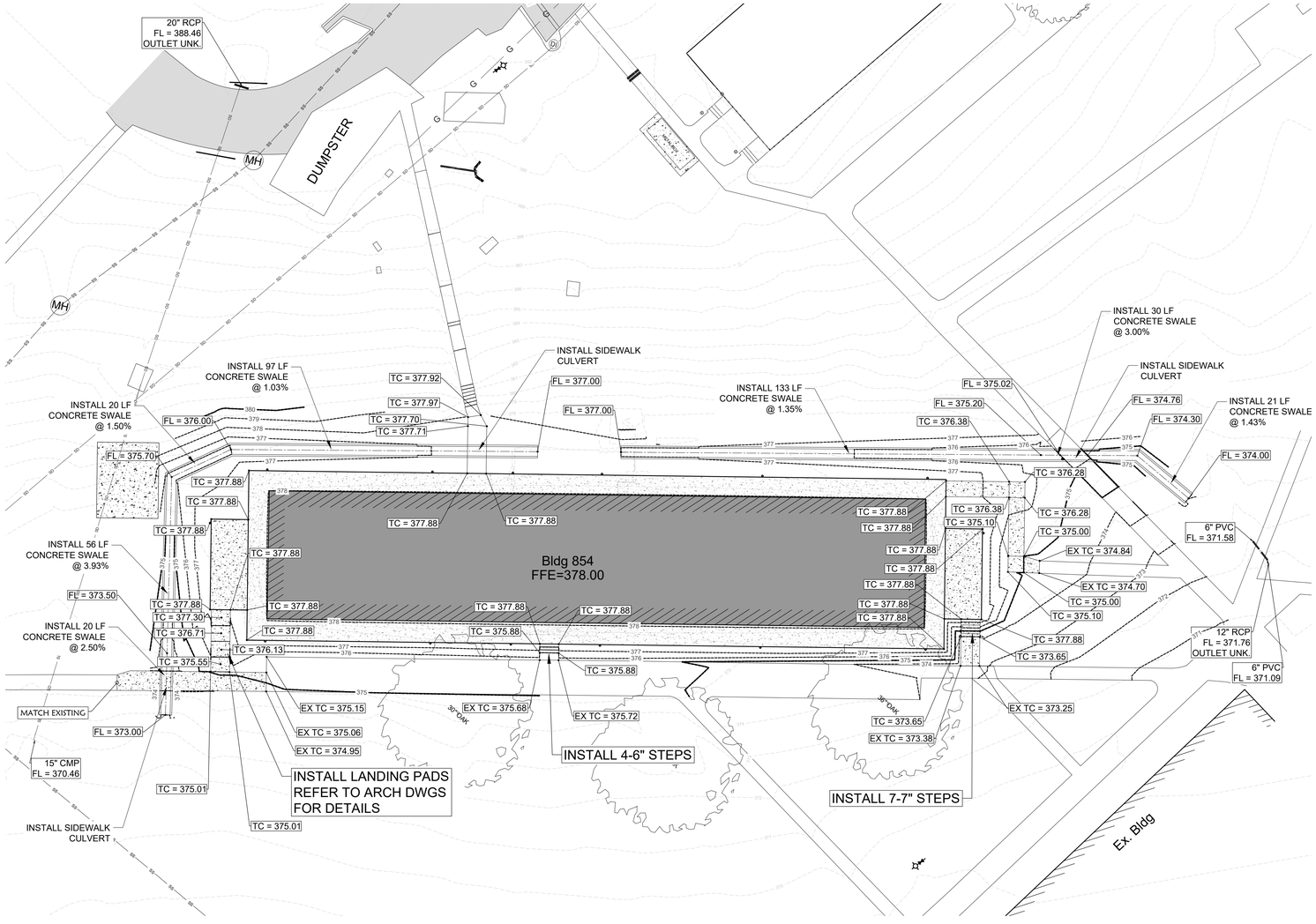
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11298
AARON K ROBINSON
02-29-24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: CIVIL SITE PLAN

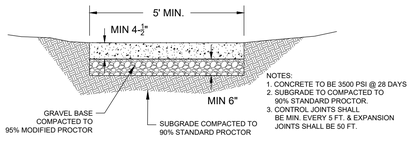
DRAWN BY: AR	LEAD DESIGNER: AR
TECH REVIEWER: AR	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AR	SHEET: C2.00
DATE: 29 FEB. 2024	
SCALE: AS NOTED	07 OF 100



1 CIVIL GRADING PLAN
SCALE: 1" = 20'

GENERAL NOTES:

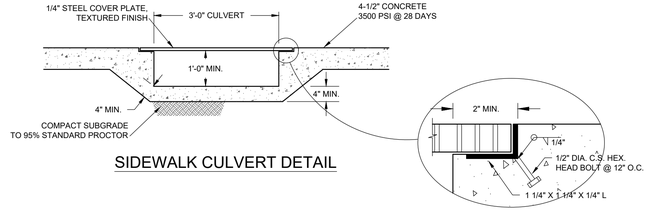
1. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY OF THE EMPLOYEES INVOLVED WITH THIS PROJECT AND TO THE GENERAL PUBLIC. THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE OSHA REQUIREMENTS FOR WORKER PROTECTION.
2. ALL REMOVED MATERIALS THAT CAN BE RECYCLED, SHALL BE RECYCLED. THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION THAT MATERIALS WERE RECYCLED AND NOT PLACED IN A LANDFILL. COORDINATE WITH LRAFB FOR DELIVERY OF RECYCLING CONTAINERS 48 HOURS PRIOR TO DELIVERY TIME: 501-987-6611.
3. PRIOR TO DISCONNECTION SERVICES, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGEMENT 48 HOURS IN ADVANCE. CE SHOPS SHALL BE ON-SITE DURING LOCATION AND DISCONNECTION OF UTILITIES.
4. ALL SIDEWALK, CONCRETE SLABS, FOUNDATIONS, ETC. WITHIN THE AREA DELINEATED SHALL BE DEMOLISHED AND REMOVED.
5. THE CONTRACTOR SHALL FIELD LOCATE THE EXISTING GAS, WATER, AND SEWER LINES TO THE BUILDING.
6. REFER TO ELECTRICAL PLANS FOR SIDEWALK LIGHTING.



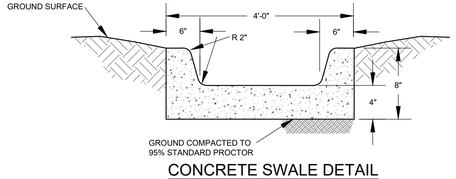
DETAIL - SIDEWALK

LEGEND:

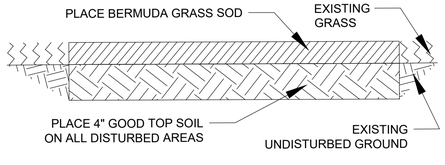
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- WATER VALVE
- FIRE HYDRANT
- CI — STORM INLET
- BOLLARD LIGHT
- JB — JUNCTION BOX
- SIDEWALK/CONCRETE



SIDEWALK CULVERT DETAIL



CONCRETE SWALE DETAIL



DETAIL-BERMUDA SOD INSTALLATION

BOND CONSULTING ENGINEERS, INC.
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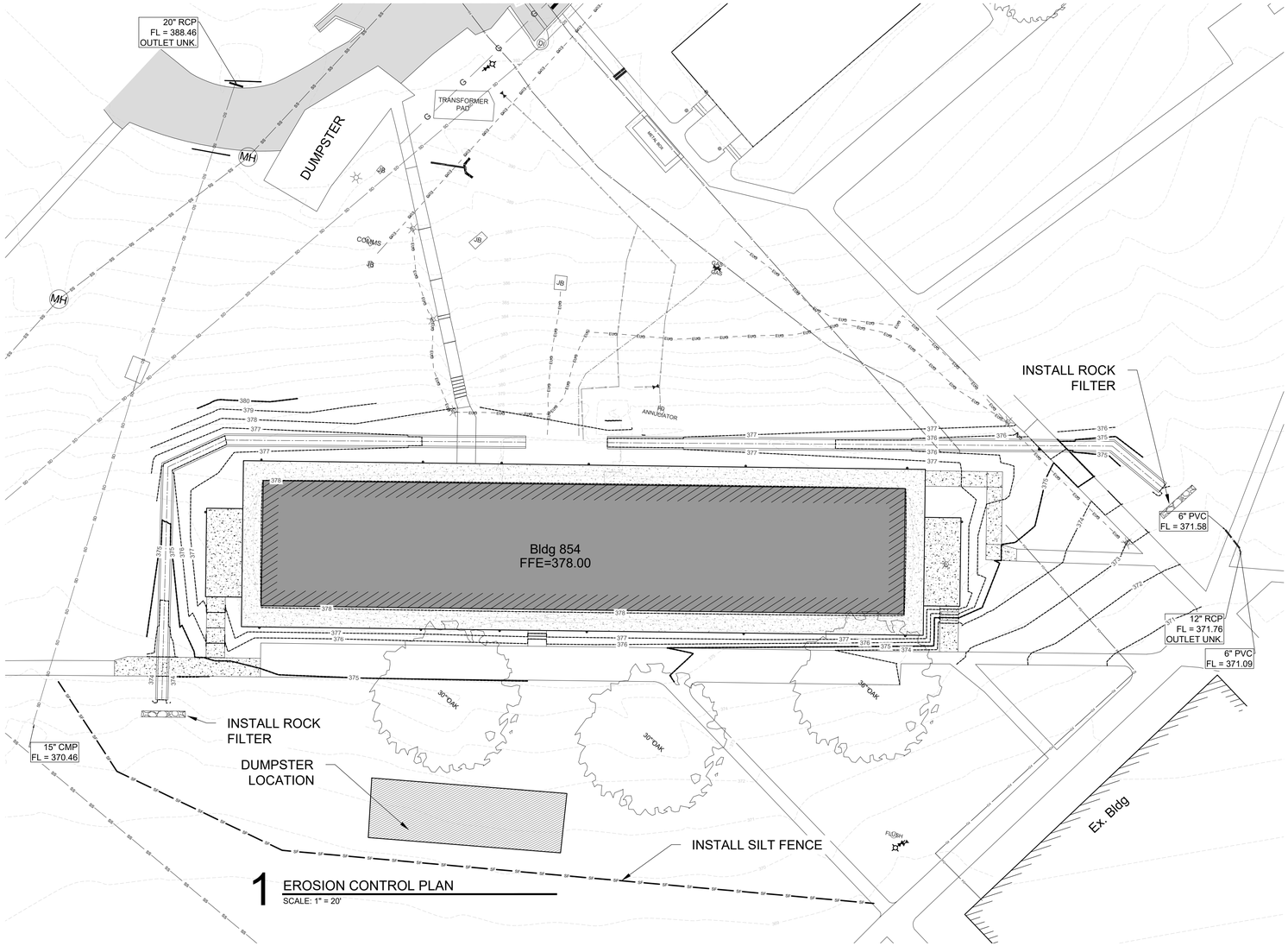
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11298
A. RON ROBINSON
02-29-24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: GRADING PLAN

DRAWN BY: AR	LEAD DESIGNER: AR
TECH REVIEWER: AR	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AR	SHEET: C3.00
DATE: 29 FEB. 2024	08 OF 100
SCALE: AS NOTED	

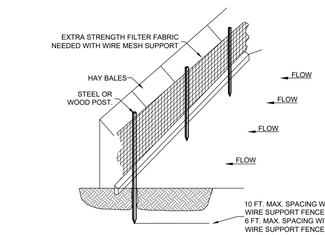


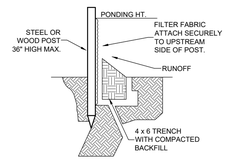
1 EROSION CONTROL PLAN
SCALE: 1" = 20'

NORTH

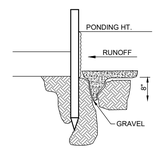
20 0 20 40

Scale 1" = 20 ft





STANDARD DETAIL
TRENCH WITH NATIVE GRAVEL



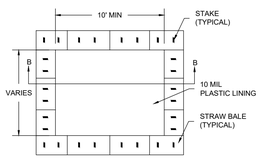
ALTERNATE DETAIL
TRENCH WITH GRAVEL

NOTE:
1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

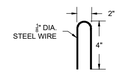
2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

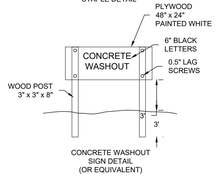
SILT FENCE
NTS



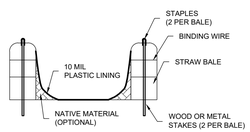
PLAN
NTS
TYPE "ABOVE GRADE" WITH STRAW BALES



STAPLE DETAIL



CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT)



SECTION B-B
NTS

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OF ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
4. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
5. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED ABOVE GRADE. FACILITY SHOULD BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUIDS GENERATED DURING WASHOUT PRODUCERS.
6. TEMPORARY WASHOUT FACILITIES SHOULD HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND WASTE CONCRETE MATERIALS GENERATED DURING WASHOUT PROCEDURES.
7. WASHOUT OF CONCRETE TRUCKS SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY.
8. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO CONCRETE WASHOUT.
9. CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNED WASHOUT AREA TO PROPERLY DISPOSED OF OFFSITE.
10. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREAS AND SLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED AND DISPOSED OF. DISPOSED OF HARDENED CONCRETE ON A REGULAR BASIS.
11. TEMPORARY CONCRETE WASHOUT FACILITY SHOULD BE CONSTRUCTED ACCORDING TO THE DETAIL, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FT, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATORS.
12. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

CONCRETE WASHOUT AREA
NTS

LEGEND:

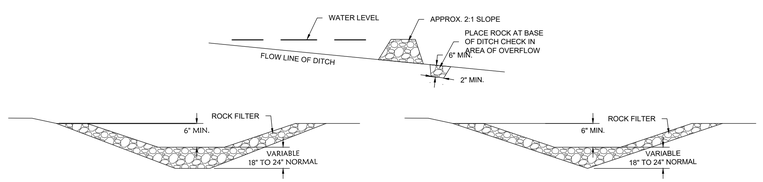
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- JUNCTION BOX
- SIDEWALK/CONCRETE

GENERAL EROSIONS CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING ACTIVITIES CONCERNING EROSION CONTROL FOR THIS PROJECT:

A. INSTALLING AND MAINTAINING SILT FENCING AS SHOWN ON PLANS
B. CONTRACTOR TO SOD DISTURBED AREAS ONCE THE CONSTRUCTION ACTIVATES IN THOSE AREAS ARE COMPLETED.
C. CONTRACTOR SHALL REMOVE ALL BMP's ONCE THE DISTURBED AREAS ARE STABILIZED, OR AS DIRECTED BY THE ENGINEER.

2. IT IS ACCEPTABLE TO CHANGE/UPDATE THE EROSION CONTROL PLAN IN A MANNER THAT WILL ENHANCE SEDIMENT CONTROL.



ROCK CHECK DAM
NTS

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11298
AARON K. ROBINSON
02-29-24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
EROSION CONTROL PLAN

DRAWN BY: AR	LEAD DESIGNER: AR
TECH REVIEWER: AR	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AR	SHEET: C4.00
DATE: 29 FEB. 2024	09 OF 100
SCALE: AS NOTED	

1. BUILDING CODE - 2018 INTERNATIONAL BUILDING CODE

2. DESIGN LOADS:
   A. FLOOR LIVE LOADS
      a. FLOORS (NON-REDUCED) 40 PSF
      b. CORRIDORS, RAMPS, STAIRS & EXITWAYS 100 PSF
      c. STORAGE AREAS 125 PSF
      d. CONCENTRATED LOAD ON ELEVATED FLRS 2000 LBS
      e. CONCENTRATED LOAD ON STAIR TREADS 300 LBS
   B. WIND LOADS
      a. BASIC WIND SPEED (3 SECOND GUST) 105 MPH
      b. WIND IMPORTANCE FACTOR, I 1.0
      c. OCCUPANCY CATEGORY II
      d. WIND EXPOSURE B
      e. INTERNAL PRESSURE COEFFICIENT +/- 0.18
   C. SEISMIC LOADS
      a. OCCUPANCY CATEGORY II
      b. SPECTRAL ACCELERATION Ss = 0.482g; S1 = 0.167g
      c. SEISMIC IMPORTANCE FACTOR, I 1.0
      d. SPECTRAL RESPONSE COEFFICIENTS
         SDS 0.420
         SD1 0.167
      e. SITE CLASS C
      f. SEISMIC DESIGN CATEGORY C
      g. BASIC SEISMIC-FORCE-RESISTING SYSTEM ORDINARY PLAIN MASONRY SHEAR WALLS
      h. RESPONSE MODIFICATION FACTOR, R 1 1/2
      i. SEISMIC RESPONSE COEFFICIENT, Cs 0.278
      j. DESIGN BASE SHEAR 0.278W
      k. ANALYSIS PROCEDURE EQUIV. LAT. FORCE
   D. DEAD LOADS
      a. STRUCTURE ACTUAL WT.
      b. MISC. UNDERHUNG MECHANICAL 5 PSF
      c. FLOOR STRUCTURE (INCLUDING UNDERHUNG) 105 PSF
   E. THE STRUCTURAL SYSTEMS SHOWN ON THESE DOCUMENTS HAVE BEEN DESIGNED FOR THE FINAL, IN PLACE USAGE OF THE STRUCTURE BASED ON THE INTENDED OCCUPANCY AND CODE REQUIREMENTS. WHILE GENERAL CONSTRUCTABILITY HAS BEEN CONSIDERED, THE STRUCTURAL SYSTEMS HAVE NOT BEEN DESIGNED TO ACCOMMODATE SPECIFIC CONSTRUCTION MEANS AND METHODS THAT MIGHT BE UTILIZED BY THE CONTRACTOR.

3. SPECIAL INSPECTIONS
   A. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH THE BUILDING CODE.
      a. REINFORCED CONCRETE CONSTRUCTION - LEVEL 1 INSPECTION
      b. CONCRETE DESIGN MIX
      c. PLACING OF REINFORCING STEEL
      d. FIBER REINFORCED POLIMER MATERIALS
   B. THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

4. STRUCTURAL ENGINEER SITE OBSERVATIONS
   A. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
   B. THE ENGINEER SHALL NOT HAVE CONTROL NOR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
   C. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF WALLACE DESIGN COLLECTIVE IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

5. REFERENCE THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

6. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR OTHER PERTINENT INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED. THESE STRUCTURAL DRAWINGS ARE INTENDED TO BE INCLUDED IN A COMPLETE SET OF CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO: ARCHITECTURAL DRAWINGS, CIVIL DRAWINGS, AND MECHANICAL/ ELECTRICAL/ PLUMBING DRAWINGS. CONTRACTOR SHALL VERIFY COORDINATION OF THESE DRAWINGS WITH CONTENTS OF ABOVE DRAWING SETS SPECIFIED AND ONLY PROCEED WITH BIDDING AND CONSTRUCTION AFTER SUCH HAS TAKEN PLACE.

7. CONCRETE:
   A. MINIMUM COMPRESSIVE STRENGTH (f'c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:
      a. INTERIOR SLABS-ON-GRADE 3000 PSI
   B. MAXIMUM WATER/CEMENT RATIO = 0.50 FOR SLABS-ON-GRADE
   C. SLUMP LIMITS = 5" +/- 1" (WITH ADMIXTURES = 8" +/- 1")
   C. CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.
   D. CEMENTITOUS MATERIALS CONTENT SHALL NOT BE LESS THAN 250 POUNDS PER CUBIC YARD. USE OF ANY FLY ASH IN FLOOR SLAB MIXES IS PROHIBITED.
   E. AGGREGATES SHALL COMPLY WITH ASTM C 33 AND SHALL BE FREE OF DELETERIOUS MATTER AND SHALL BE MADE OF COARSE LIMESTONE OR GRANITE AGGREGATES.
   F. MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE. IF ADMIXTURES ARE UTILIZED, THEY SHALL BE COMPATIBLE WITH OTHER ADMIXTURES AND MUST NOT CONTRIBUTE WATER-SOLUBLE CHLORIDE IONS EXCEEDING THOSE PERMITTED IN HARDENED CONCRETE.
   H. REINFORCING STEEL SHALL MEET THE FOLLOWING:
      a. DEFORMED BARS A615, GRADE 60
      b. WELDABLE DEFORMED BARS A706, GRADE 60
      c. WELDED WIRE REINFORCEMENT A1064
   I. WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING BARS SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
   J. REFER TO ACI 318 LATEST EDITION FOR CONCRETE COVER, ACI 315 LATEST EDITION FOR DETAILING, FABRICATION, PLACEMENT AND SUPPORT PRACTICES, ACI 347 FOR FORMWORK, ACI 305 FOR HOT WEATHER CONCRETING, ACI 306 FOR COLD WEATHER CONCRETING, AND ACI 301 LATEST EDITION FOR STANDARD PRACTICE FOR MIXING AND PLACING CONCRETE. PROVIDE CONCRETE COVER DIMENSIONS IN SHOP DRAWINGS FOR STRUCTURAL ENGINEER REVIEW.
   K. REINFORCING BAR SUPPORTS SHALL BE BOLSTERS, CHAIRS, SPACERS AND OTHER DEVICES TO HOLD REINFORCING BARS AND WELDED WIRE REINFORCEMENT IN PLACE. MANUFACTURE BAR SUPPORTS FFROM STEEL, PLASTIC OR PRECAST CONCRETE ACCORDING TO CRSI'S 'MANUAL OF STANDARD PRACTICE" OF GREATER COMPRESSIVE STRENGTH THAN THE CONCRETE PLACED IN.
   L. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, OPENINGS, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONCRETE PLACEMENT. THE CONTRACTOR SHALL VERIFY WITH ARCHITECTURAL, STRUCTURAL AND MEP DRAWINGS FOR LOCATIONS OF REQUIRED COORDINATION ITEMS. CONTRACTOR SHALL CONTACT THE ARCHITECT OR ENGINEER IF AN ERROR OR OMISSION OCCURS AFTER CONCRETE PLACEMENT.

8. SUBMITTALS:
   A. CODE COMPLIANT STRUCTURAL DESIGN OF THE FOLLOWING ITEMS IS DEFERRED TO THE GENERAL CONTRACTOR.
      a. FIBER REINFORCED POLYMER (FRP) STRENGTHENING SYSTEM
   B. DEFERRED SUBMITTALS SHALL INCLUDE SUBSTANTIATING STRUCTURAL CALCULATIONS AND SHALL BEAR THE SIGNED WET STAMP OF A REGISTERED PROFESSIONAL ENGINEER WHO IS LEGALLY AUTHORIZED TO PRACTICE IN THE JURISDICTION WHERE PROJECT IS LOCATED AND WHO IS EXPERIENCED IN PROVIDING ENGINEERING SERVICES OF THE KIND INDICATED. DEFERRED SUBMITTALS SHALL BEAR THE APPROVAL STAMP OF THE PROJECT ENGINEER OF RECORD.
   C. ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS OR OMISSIONS IN THE SHOP DRAWINGS.
   D. ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF THESE CONTRACT DOCUMENTS.
   E. DETAIL DRAWINGS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.
   F. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING:
      a. CONCRETE MIX DESIGN AND MATERIALS
      b. CONCRETE REINFORCING STEEL

9. FRP REINFORCING OF CONCRETE
   1. VERIFY AND DOCUMENT FIBER OR PREFABRICATED-CURED LAMINATE BATCH NUMBERS AND TYPE FOR COMPLIANCE WITH SPECIFIED MATERIALS AND APPROVED SUBMITTALS.
   2. VERIFY AND DOCUMENT BATCH NUMBERS AND TYPES OF RESINS, INCLUDING PRIMERS, SATURANTS, ADHESIVES, AND COATINGS FOR COMPLIANCE WITH SPECIFIED MATERIALS AND APPROVED SUBMITTALS.
   3. VERIFY ALL MATERIALS ARE STORED PER MANUFACTUR'S RECOMMENDATIONS.
   4. VERIFY MIX RATIOS, MIXING TIMES, AND MIXED COLOR OF ALL RESINS, INCLUDING PRIMERS, SATURANTS, ADHESIVES, AND COATINGS MIXED FOR THE DAY.
   5. VERIFY CORRECT PREPARATION OF TEST SAMPLES, FIELD TESTING AND RESULTS OF SPECIFIED FIELD TESTS FOR COMPLIANCE.
   6. VISUAL INSPECTION AND DOCUMENTATION OF SURFACE PREPARATION PRIOR TO INSTALLATION OF LAMINATION STRIPS FOR:
      A. CORRECT LOCATION.
      B. AMBIENT TEMPERATURE, SURFACE TEMPERATURE AND SURFACE DRYNESS.
      C. SURFACE PROFILE OF CONCRETE SURFACE, SURFACE CLEANLINESS AND ROUNDING OF SHARP CORNERS.
      D. REPAIR AND INJECTION OF SIGNIFICANT CRACKS, PATCHING OF VOIDS AND REPAIR OF OTHER DEFECTS IN CONCRETE SURFACE.
   7. CONFORMANCE WITH MANUFACTUR'S WRITTEN INSTALLATION PROCEDURES DURING INSTALLATION INCLUDING:
      A. VERIFICATION OF FIBER ALIGNMENT, NUMBER OF LAYERS AND THE DIRECTIONS OF FIBERS OF EACH LAYER OF FABRIC.
      B. PROPER APPLICATION AND SATURATION OF RESIGN TO FIBERS.
   8. VERIFY PROPER CURING OF COMPOSITE SYSTEM.
   9. VISUAL INSPECTION AND DOCUMENTATION AFTER INSTALLATION OF CURED LAMINATE FOR:
      A. LOCATION AND DIMENSIONS OF FRP REINFORCING.
      B. COMPLETENESS OF INSTALLATION INCLUDING NUMBER OF PILES.
      C. SATURATION OF STRIPS.
      D. ORIENTATION OF FABRIC.
      E. SOUNDING OF CURED LAMINATE STRIPS.
      F. IDENTIFY AND MAP LOCATIONS, SIZES AND GROUPINGS OF ANY DEFECTS, DELAMINATIONS. AIR VOIDS AND SUBSTANDARD AREAS IN CURED STRIPS.
   10. INSPECT REPAIR OF ALL DEFECTS.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.O.R.	ARCHITECT OF RECORD
A.R.	ANCHOR RODS
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ARCH.	ARCHITECTURAL
B.L.	BLOCK LINTEL
B.O.D.	BOTTOM OF DECK
B.O.S.	BOTTOM OF STEEL
B.P.	BASE PLATE
BAL.	BALANCE
BLDG.	BUILDING
BRG.	BEARING
C.J.	CONTRACTION JOINT
C.L.	CENTER LINE
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
D.B.A.	DEFORMED BAR ANCHOR
D.B.E.	DECK BEARING ELEVATION
DIA.	DIAMETER
DTL.	DETAIL
DWG.	DRAWING
E.F.	EACH FACE
E.J.	EXPANSION JOINT
E.O.D.	EDGE OF DECK
E.O.R.	ENGINEER OF RECORD
E.O.S.	EDGE OF SLAB
E.W.	EACH WAY
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
F.F.E.	FINISHED FLOOR ELEVATION
F.S.	FAR SIDE
F.V.	FIELD VERIFY
FDN.	FOUNDATION
FT.	FOOT/FEET
FTG.	FOOTING
G.B.	GRADE BEAM
G.C.	GENERAL CONTRACTOR
GA.	GAGE
GALV.	GALVANIZED
H.S.A.	HEADED STUD ANCHOR
HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
IN.	INCH/INCHES
INFO.	INFORMATION
J.B.E.	JOIST BEARING ELEVATION
JT.	JOINT
K	UNIT OF 1,000 POUNDS (KIP)
KSI	KIPS PER SQUARE INCH
LBS.	POUNDS

ABBREVIATIONS

LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSL	LONG SLOT
MAX.	MAXIMUM
MECH.	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBIN G
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.I.C.	NOT IN CONTRACT
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OPPOSITE FACE
O.H.	OPPOSITE HAND
OPP.	OPPOSITE
P.A.F.	POWER/POWDER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
R.O.	ROUGH OPENING
RE:	REFER
REINF.	REINFORCING
REQD.	REQUIRED
RTU	ROOF TOP UNIT
S.D.S.	SELF-DRILLING SCREWS
S.S.	STAINLESS STEEL
SCHED.	SCHEDULE
SIM.	SIMILAR
SP.	SPACE/SPACING
SPECS.	SPECIFICATIONS
SSL	SHORT SLOT
STD.	STANDARD
STL.	STEEL
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W.P.	WORK POINT
W.S.	WATERSTOP
W.W.R.	WELDED WIRE REINFORCEMENT
WT.	WEIGHT

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20645
JAMES GRANICH
02/28/2024

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
GENERAL NOTES

DRAWN BY: AJG	LEAD DESIGNER: AJG
TECH. REVIEWER: JMG	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AJG	SHEET: S0.00
DATE: 29 FEB. 2024	10 OF 100
SCALE: AS NOTED	

SPECIAL INSPECTION REQUIREMENTS

SPECIAL INSPECTIONS REQUIREMENTS (IBC 2018 CHAPTER 17)

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
2. REPORT REQUIREMENTS SHALL CONFORM TO SECTIONS 1704.2.4 AND 1704.5 OF THE IBC. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.

IBC 2018 REQUIRED SPECIAL INSPECTIONS

			FREQUENCY OF INSPECTION	
			CONTINUOUS	PERIODIC
		CONCRETE CONSTRUCTION (IBC TABLE 1705.3)		
1.		INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	---	X
2.		REINFORCING BAR WELDING:		
	A.	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	---	X
	B.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X
	C.	INSPECT ALL OTHER WELDS	X	
3.		INSPECT ANCHORS CAST IN CONCRETE.	---	X
4.		INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. (a)		
	A.	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	
	B.	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4 A.		X
5.		VERIFY USE OF REQUIRED DESIGN MIX.	---	X
6.		PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
7.		INSPECT CONCRETE PLACEMENT OF PROPER APPLICATION TECHNIQUES.	X	---
8.		VERIFY MAINTENANCE OF SPECIFIED CUREING TEMPERATURE AND TECHNIQUES.	---	X
9.		INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X
		a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, CONTACT THE STRUCTURAL ENGINEER-OF-RECORD FOR SPECIAL INSPECTION REQUIREMENTS.		
		** CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.		
		** PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.		

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AIR MOBILITY COMMAND

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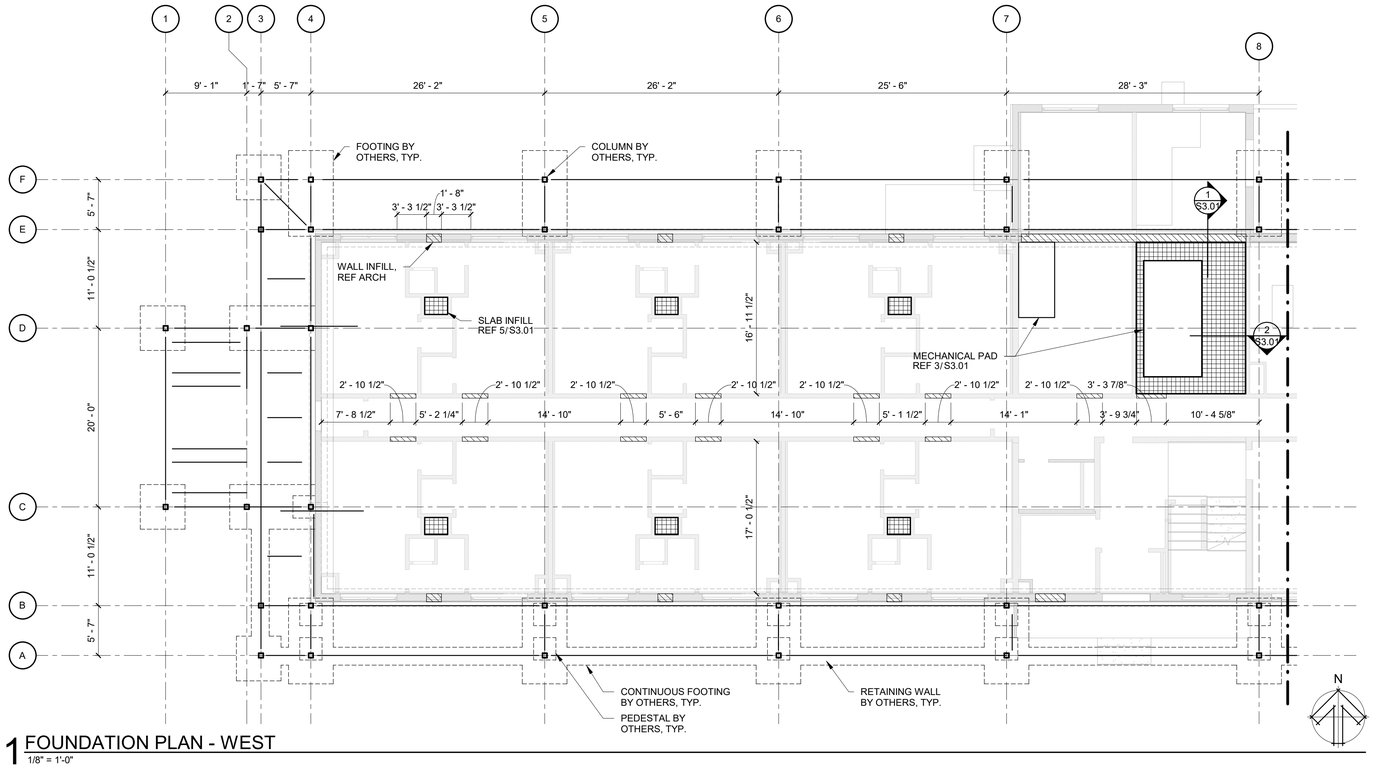
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20645
JAMES GRANICH
02/28/2024

No.	Revision/Issue	Date	By	Appr'd

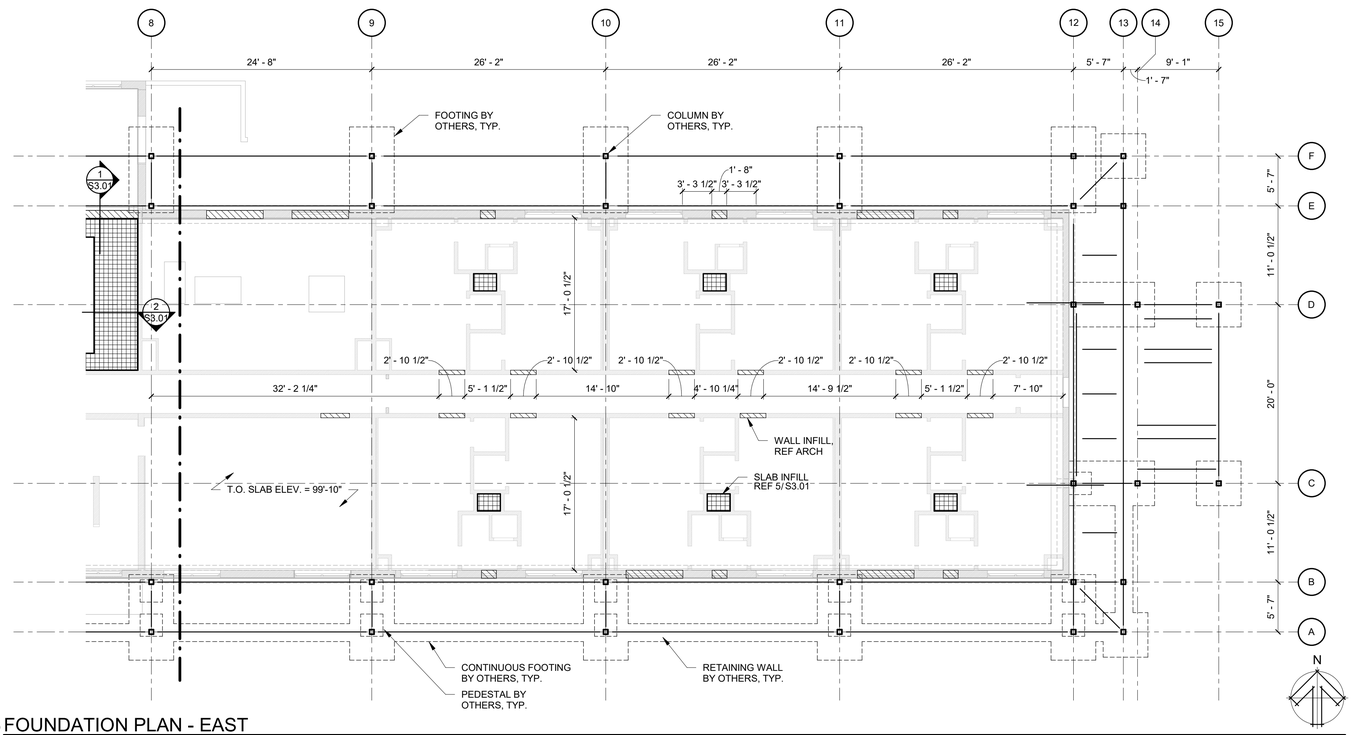
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
STRUCTURAL SPECIAL INSPECTIONS

DRAWN BY: AJG	LEAD DESIGNER: AJG
QUALITY REVIEWER: JMG	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AJG	SHEET: S0.01
DATE: 29 FEB. 2024	11 OF 100
SCALE: AS NOTED	



1 FOUNDATION PLAN - WEST
1/8" = 1'-0"



2 FOUNDATION PLAN - EAST
1/8" = 1'-0"

PLAN NOTES:
1. TOP OF FINISHED FLOOR ELEVATION = 101'-4", U.N.O.
2. CONTRACTOR SHALL NOT CUT, CORE, OR BORE HOLES IN EXISTING MEMBERS, INCLUDING MASONRY WALLS, HOLLOW CORE PLANKS, AND DECK, UNLESS APPROVED BY E.O.R.
3. ALL MEMBERS SHOWN ON THIS PLAN ARE EXISTING, U.N.O.
4. CONDITIONS, DIMENSIONS, AND MEMBER LOCATIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS AND SITE OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. FIELD VERIFY T.O. FINISH FLOOR ELEVATIONS, OPENING SIZES AND EXISTING REINFORCEMENT PRIOR TO FABRICATION AND CONSTRUCTION.
6. EXISTING JAMB REINFORCEMENT SHALL BE FIELD VERIFIED. IF EXISTING CONDITIONS DIFFER FROM DETAILS ON SHEET S5.01, CONTACT E.O.R.

LEGEND:

(1) OPENING IN MASONRY WALL PER ELEVATION PER SHEETS S1.02, S1.03, AND S1.04.

←— ###k —→ SEISMIC IN-PLANE SHEARWALL LOAD (LRFD)

AIR MOBILITY COMMAND

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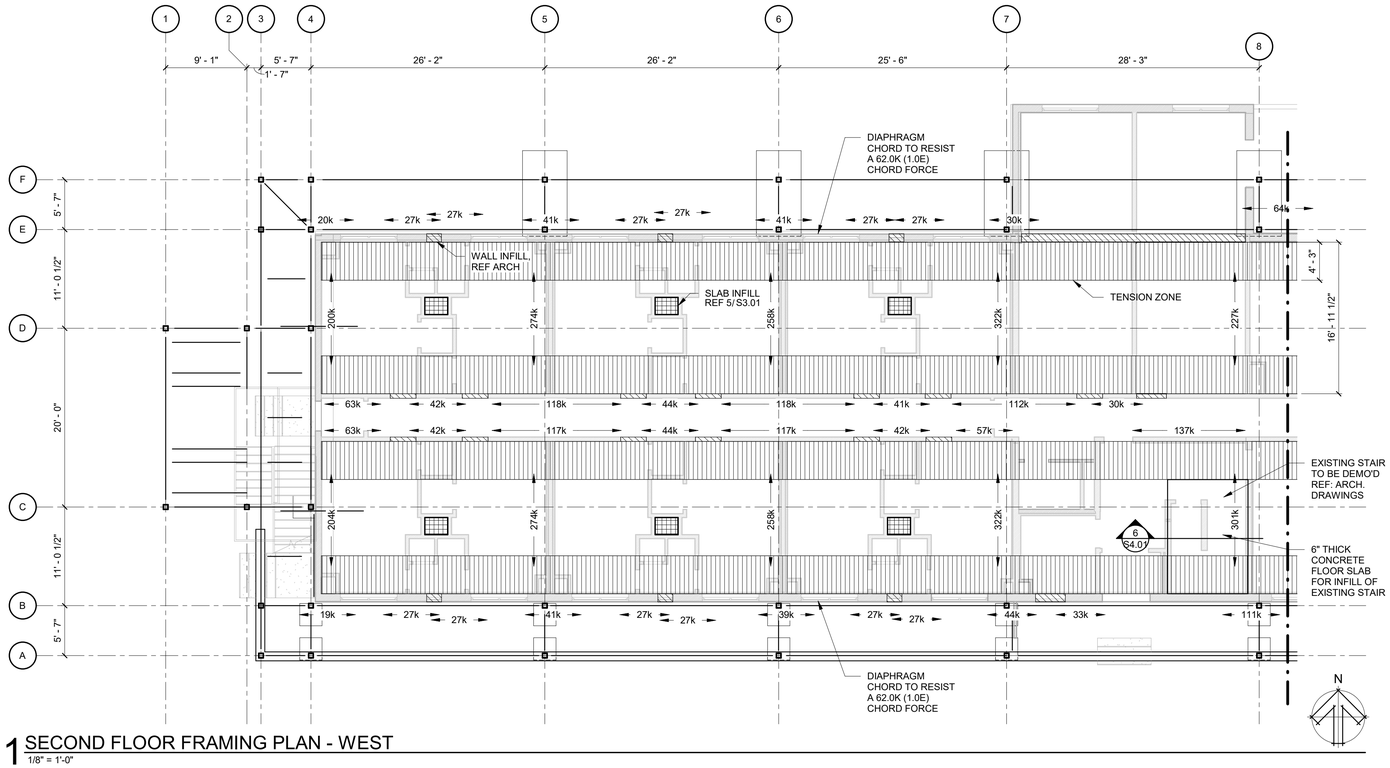
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FOUNDATION PLAN

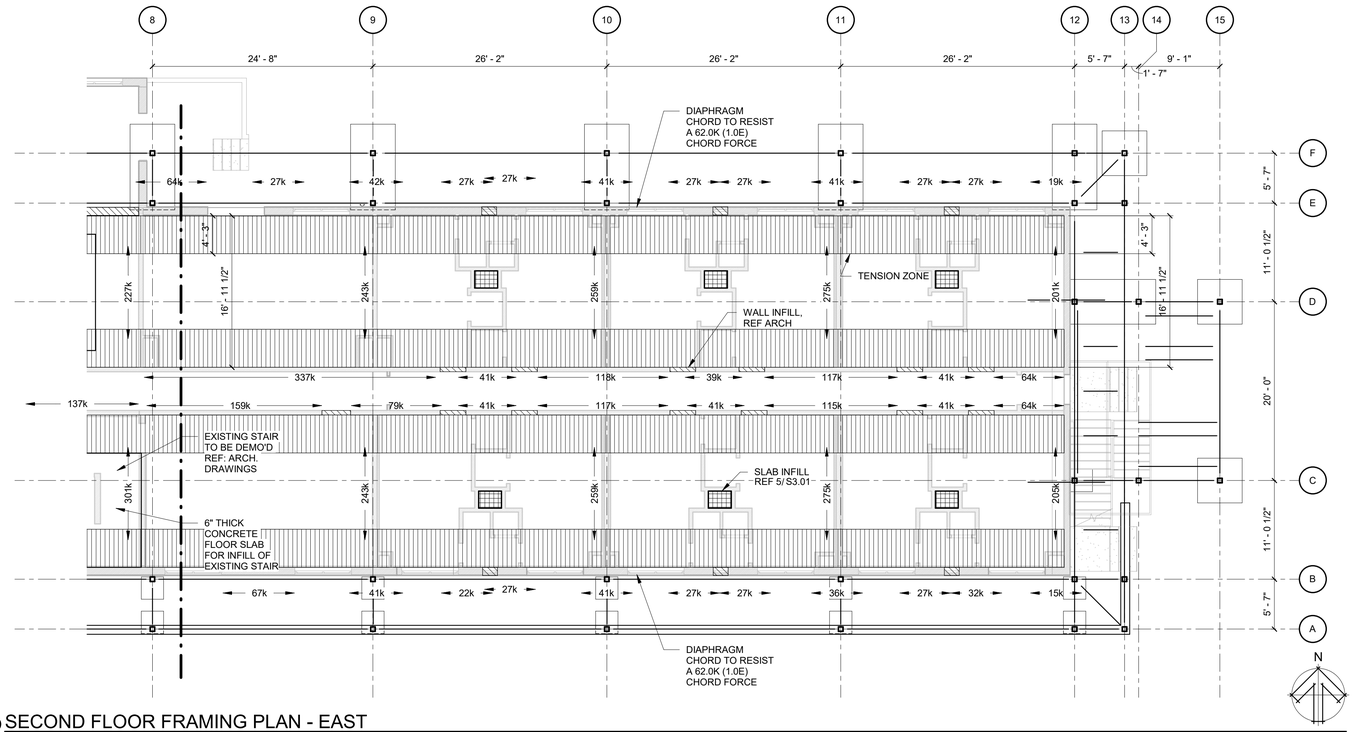
DRAWN BY: AJG	LEAD DESIGNER: AJG
QUALITY REVIEWER: JMG	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AJG	SHEET: S1.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	12 OF 100

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1 SECOND FLOOR FRAMING PLAN - WEST
1/8" = 1'-0"



2 SECOND FLOOR FRAMING PLAN - EAST
1/8" = 1'-0"

PLAN NOTES:

1. TOP OF FINISHED FLOOR ELEVATION = 111'-6 1/2", U.N.O.
2. CONTRACTOR SHALL NOT CUT, CORE, OR BORE HOLES IN EXISTING MEMBERS, INCLUDING MASONRY WALLS, HOLLOW CORE PLANKS, AND DECK, UNLESS APPROVED BY E.O.R.
3. ALL MEMBERS SHOWN ON THIS PLAN ARE EXISTING, U.N.O.
4. CONDITIONS, DIMENSIONS, AND MEMBER LOCATIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS AND SITE OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. FIELD VERIFY T.O. FINISH FLOOR ELEVATIONS, OPENING SIZES AND EXISTING REINFORCEMENT PRIOR TO FABRICATION AND CONSTRUCTION.
6. EXISTING JAMB REINFORCEMENT SHALL BE FIELD VERIFIED. IF EXISTING CONDITIONS DIFFER FROM DETAILS ON SHEET S.501, CONTACT E.O.R.

PLAN REFERENCE NOTES:

(A) VERIFY OPENING SIZE WITH MEP AND ARCH.

(B) COORDINATE LOCATION WITH MEP/ARCH. OPENING LOCATION CAN MOVE ALONG EXTERIOR WALL TO A LIMITED EXTENT. VERIFY FINAL OPENING LOCATION IS ACCEPTABLE TO ALL PARTIES.

(C) FRP SUBCONTRACTOR SHALL PROVIDE CALCS AND DRAWINGS WET STAMPED BY REGISTERED PROFESSIONAL ENGINEER WHO IS LEGALLY AUTHORIZED TO PRACTICE IN THE UNITED STATES AND WHO IS EXPERIENCED IN FRP DESIGN.

(D) THE ENGINEER OF RECORD WILL REVIEW THE CALCS AND SHOP DRAWINGS BUT THE REVIEW IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS.

LEGEND:

(1) OPENING IN MASONRY WALL PER ELEVATION PER SHEETS S1.02, S1.03, AND S1.04.

←— ###k —→ SEISMIC IN-PLANE SHEARWALL LOAD (LRFD)

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02/28/2024

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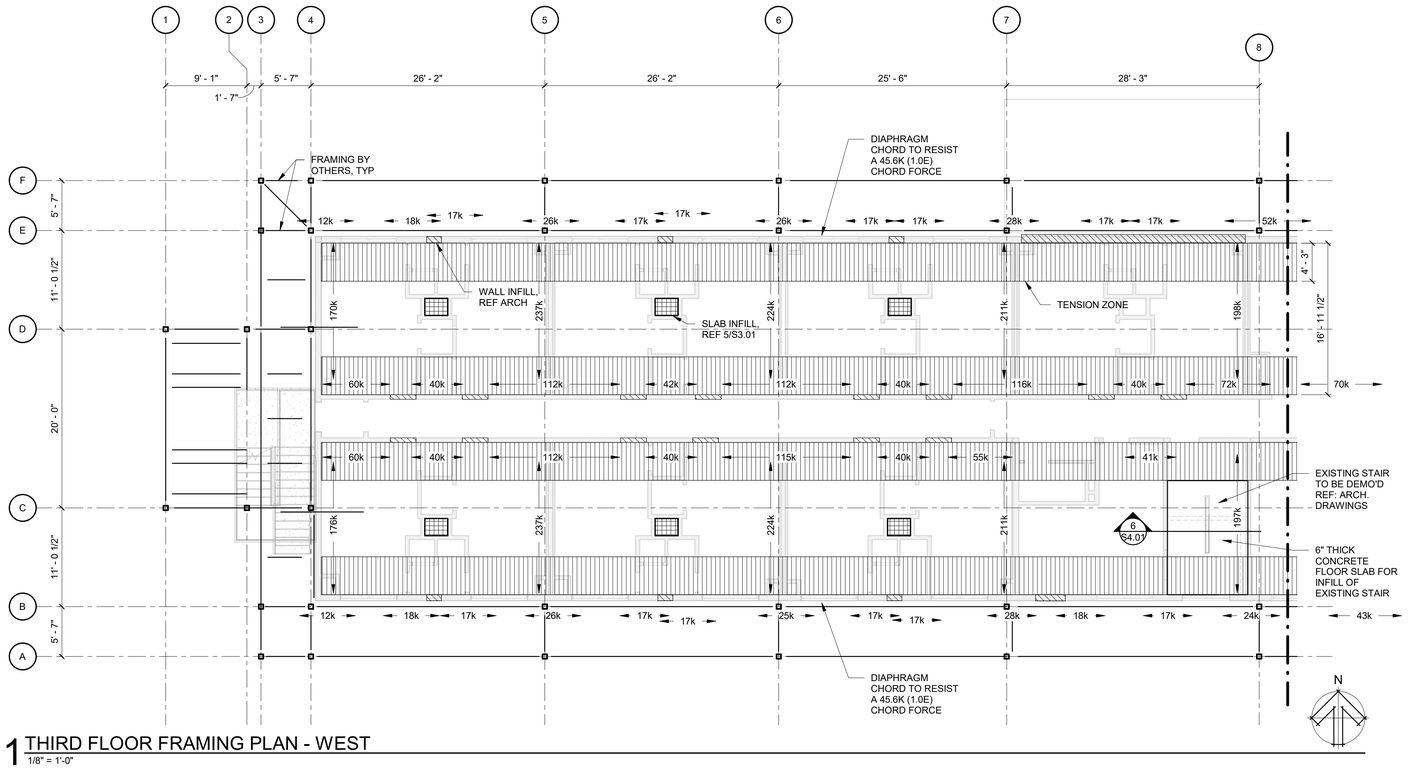
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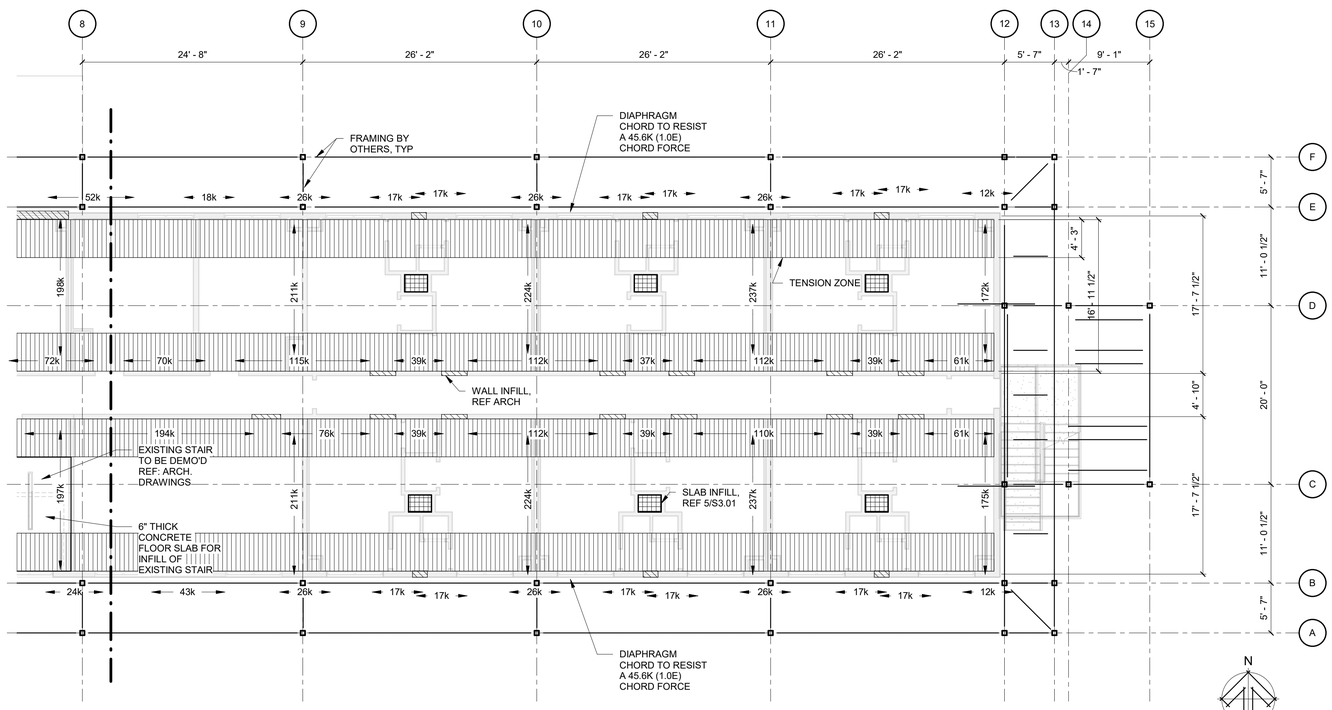
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: SECOND FLOOR FRAMING PLAN

DRAWN BY: AJG	LEAD DESIGNER: AJG
QUALITY CONTROL BY: JMG	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AJG	SHEET: S1.02
DATE: 29 FEB. 2024	
SCALE: AS NOTED	13 OF 100



1 THIRD FLOOR FRAMING PLAN - WEST
1/8" = 1'-0"



2 THIRD FLOOR FRAMING PLAN - EAST
1/8" = 1'-0"

PLAN NOTES:

1. TOP OF FINISHED FLOOR ELEVATION = 111'-6 1/2", U.N.O.
2. CONTRACTOR SHALL NOT CUT, CORE, OR BORE HOLES IN EXISTING MEMBERS, INCLUDING MASONRY WALLS, HOLLOW CORE PLANKS, AND DECK, UNLESS APPROVED BY E.O.R.
3. ALL MEMBERS SHOWN ON THIS PLAN ARE EXISTING, U.N.O.
4. CONDITIONS, DIMENSIONS, AND MEMBER LOCATIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS AND SITE OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. FIELD VERIFY T.O. FINISH FLOOR ELEVATIONS, OPENING SIZES AND EXISTING REINFORCEMENT PRIOR TO FABRICATION AND CONSTRUCTION.
6. EXISTING JAMB REINFORCEMENT SHALL BE FIELD VERIFIED. IF EXISTING CONDITIONS DIFFER FROM DETAILS ON SHEET S.501, CONTACT E.O.R.

PLAN REFERENCE NOTES:

(A) VERIFY OPENING SIZE WITH MEP AND ARCH.

(B) COORDINATE LOCATION WITH MEP/ARCH. OPENING LOCATION CAN MOVE ALONG EXTERIOR WALL TO A LIMITED EXTENT. VERIFY FINAL OPENING LOCATION IS ACCEPTABLE TO ALL PARTIES.

(C) FRP SUBCONTRACTOR SHALL PROVIDE CALCS AND DRAWINGS WET STAMPED BY REGISTERED PROFESSIONAL ENGINEER WHO IS LEGALLY AUTHORIZED TO PRACTICE IN THE UNITED STATES AND WHO IS EXPERIENCED IN FRP DESIGN.

(D) THE ENGINEER OF RECORD WILL REVIEW THE CALCS AND SHOP DRAWINGS BUT THE REVIEW IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS.

LEGEND:

(1) OPENING IN MASONRY WALL PER ELEVATION PER SHEETS S1.02, S1.03, AND S1.04.

←### → SEISMIC IN-PLANE SHEARWALL LOAD (LRFD)

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JAMES GRANICH

02/28/2024

No.	Revision/Issue	Date	BY	APP'D

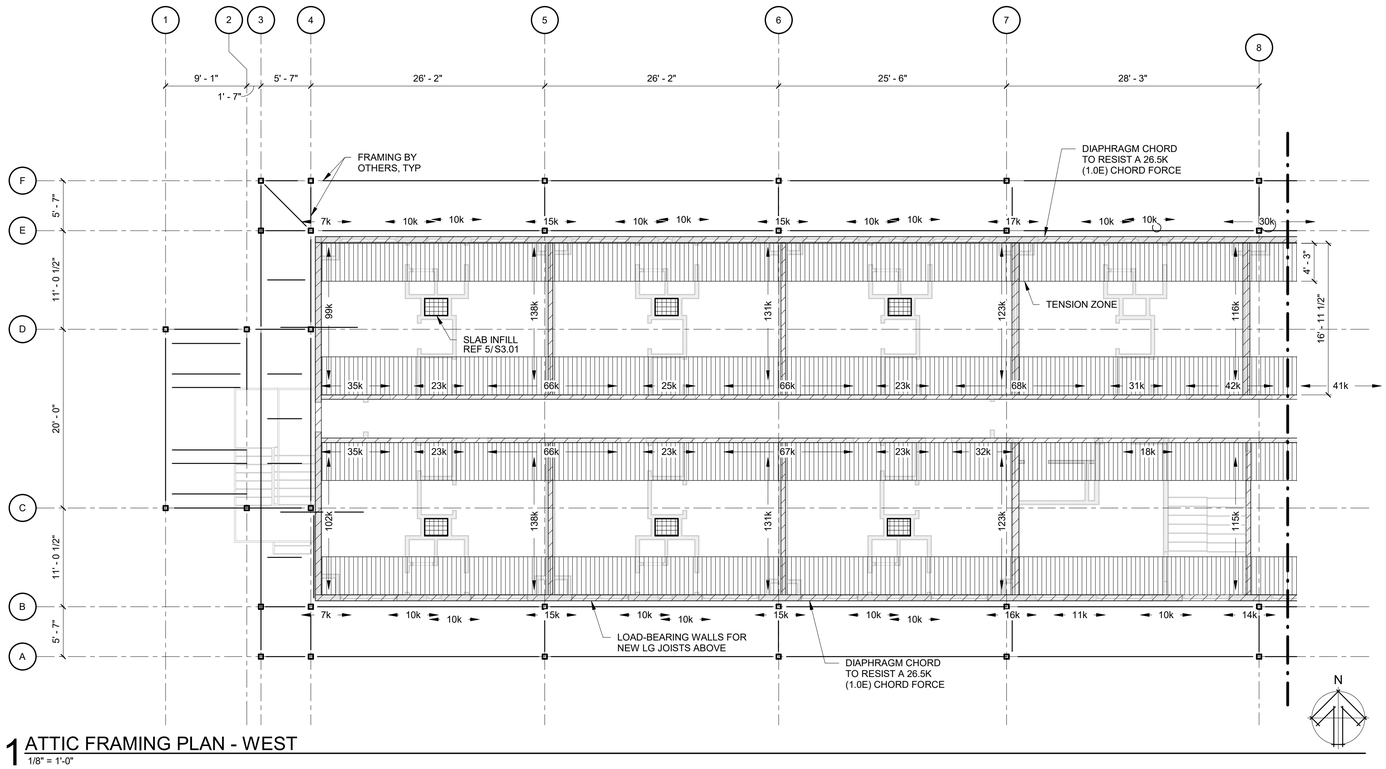
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
THIRD FLOOR FRAMING PLAN

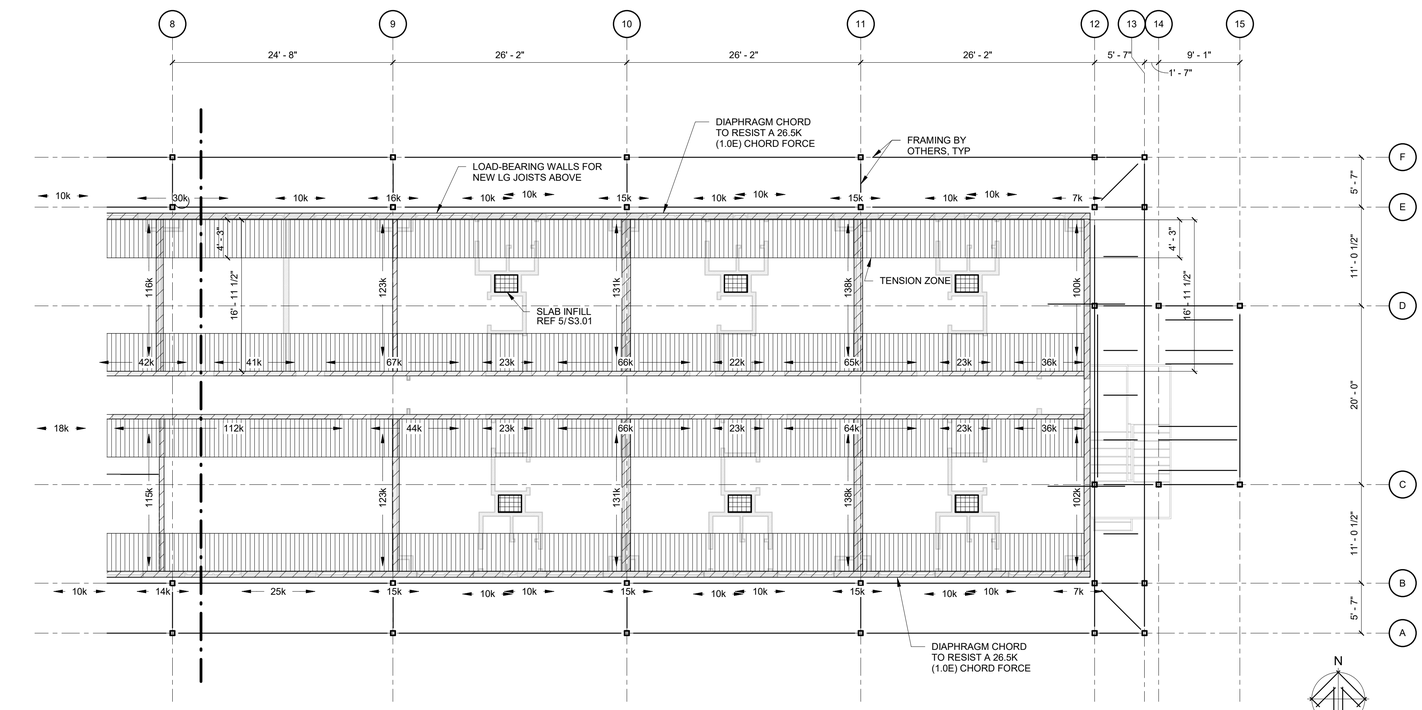
DRAWN BY: AJG	LEAD DESIGNER: AJG
QUALITY REVIEWER: JMG	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AJG	SHEET: S1.03
DATE: 29 FEB. 2024	
SCALE: AS NOTED	14 OF 100

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1 ATTIC FRAMING PLAN - WEST
1/8" = 1'-0"



2 ATTIC FRAMING PLAN - EAST
1/8" = 1'-0"

PLAN NOTES:

1. TOP OF FINISHED FLOOR ELEVATION = 111'-6 1/2", U.N.O.
2. CONTRACTOR SHALL NOT CUT, CORE, OR BORE HOLES IN EXISTING MEMBERS, INCLUDING MASONRY WALLS, HOLLOW CORE PLANKS, AND DECK, UNLESS APPROVED BY E.O.R.
3. ALL MEMBERS SHOWN ON THIS PLAN ARE EXISTING, U.N.O.
4. CONDITIONS, DIMENSIONS, AND MEMBER LOCATIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS AND SITE OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. FIELD VERIFY T.O. FINISH FLOOR ELEVATIONS, OPENING SIZES AND EXISTING REINFORCEMENT PRIOR TO FABRICATION AND CONSTRUCTION.
6. EXISTING JAMB REINFORCEMENT SHALL BE FIELD VERIFIED. IF EXISTING CONDITIONS DIFFER FROM DETAILS ON SHEET S.501, CONTACT E.O.R.

PLAN REFERENCE NOTES:

(A) VERIFY OPENING SIZE WITH MEP AND ARCH.

(B) COORDINATE LOCATION WITH MEP/ARCH. OPENING LOCATION CAN MOVE ALONG EXTERIOR WALL TO A LIMITED EXTENT. VERIFY FINAL OPENING LOCATION IS ACCEPTABLE TO ALL PARTIES.

(C) FRP SUBCONTRACTOR SHALL PROVIDE CALCS AND DRAWINGS WET STAMPED BY REGISTERED PROFESSIONAL ENGINEER WHO IS LEGALLY AUTHORIZED TO PRACTICE IN THE UNITED STATES AND WHO IS EXPERIENCED IN FRP DESIGN.

(D) THE ENGINEER OF RECORD WILL REVIEW THE CALCS AND SHOP DRAWINGS BUT THE REVIEW IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH THE DESIGN DRAWINGS.

LEGEND:

(1) OPENING IN MASONRY WALL PER ELEVATION PER SHEETS S1.02, S1.03, AND S1.04.

←### → SEISMIC IN-PLANE SHEARWALL LOAD (LRFD)

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LICENSED PROFESSIONAL ENGINEER
No. 20645
JAMES GRANICH
02/28/2024

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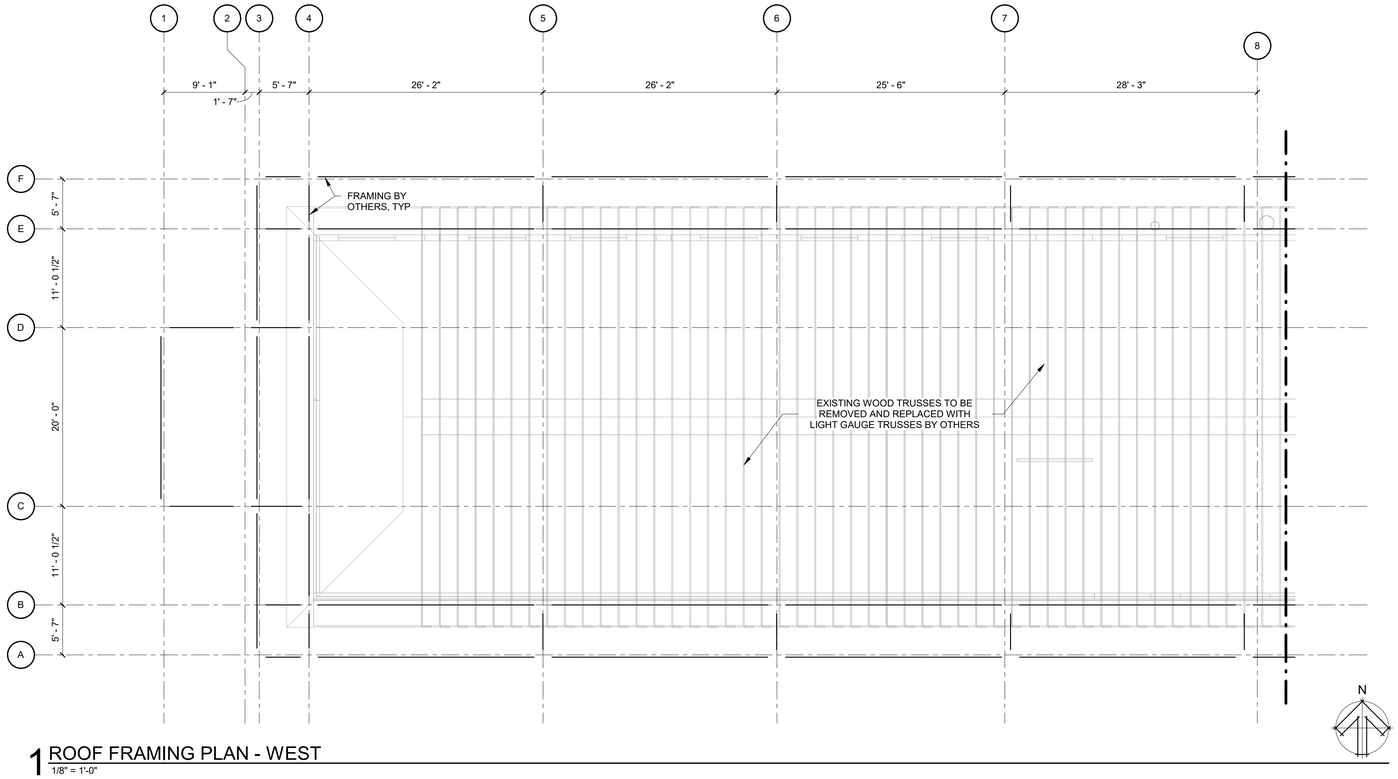
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No.	Revision/Issue	Date	BY	APP'D

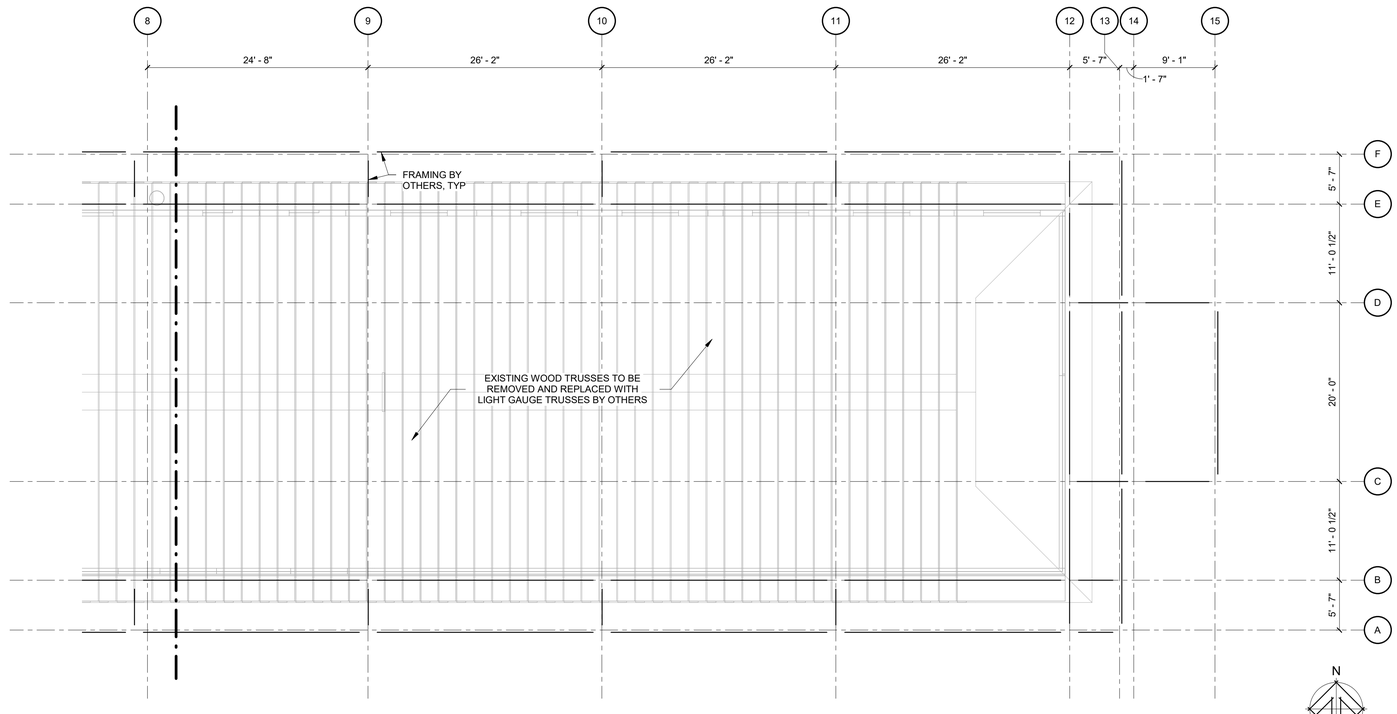
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ATTIC FRAMING PLAN

DRAWN BY: AJG	LEAD DESIGNER: AJG
PEER REVIEWER: JMG	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AJG	SHEET: S1.04
DATE: 29 FEB. 2024	15 OF 100
SCALE: AS NOTED	



1 ROOF FRAMING PLAN - WEST
1/8" = 1'-0"



2 ROOF FRAMING PLAN - EAST
1/8" = 1'-0"

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No.	Revision/Issue	Date	By	Appd.

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

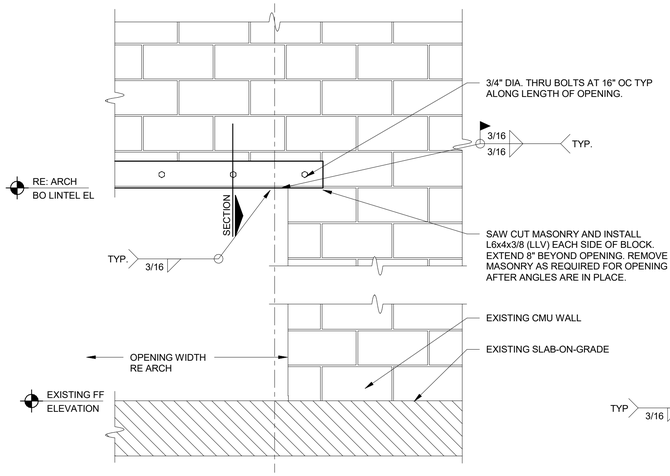
SHEET TITLE
ROOF FRAMING PLAN

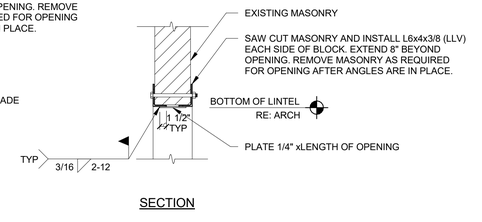
DRAWN BY: AJG	LEAD DESIGNER: AJG
QUALITY REVIEWER: JMG	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AJG	SHEET: S1.05
DATE: 29 FEB. 2024	16 OF 100
SCALE: AS NOTED	

CONCRETE REINFORCING LAP LENGTH SCHEDULE										
BAR SIZE	STRUCTURAL ELEMENT MINIMUM COMPRESSIVE STRENGTH (f'c)									
	3000psi		4000psi		4500psi		5000psi		7000psi	
	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#3	28"	22"	25"	19"	23"	18"	22"	17"	19"	14"
#4	38"	29"	33"	25"	31"	24"	29"	23"	25"	19"
#5	47"	36"	41"	31"	38"	30"	36"	28"	31"	24"
#6	56"	43"	49"	37"	46"	35"	44"	34"	37"	28"
#7	81"	63"	71"	54"	67"	51"	63"	49"	54"	41"
#8	93"	72"	81"	62"	76"	59"	72"	56"	61"	47"
#9	105"	81"	91"	70"	86"	66"	81"	63"	69"	53"
#10	118"	91"	102"	79"	96"	74"	92"	71"	77"	60"

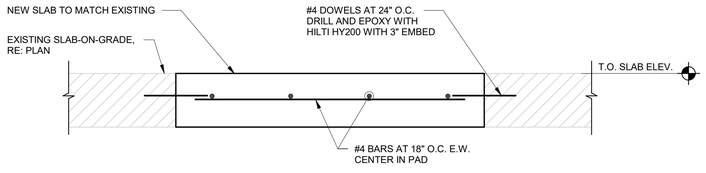
NOTES:
1. LAP LENGTH FOR TOP BARS SHALL BE USED WHEN MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW HORIZONTAL REINFORCEMENT.

6 CONCRETE REINFORCING LAP SCHEDULE
3/4" = 1'-0"



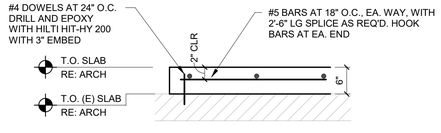


SECTION

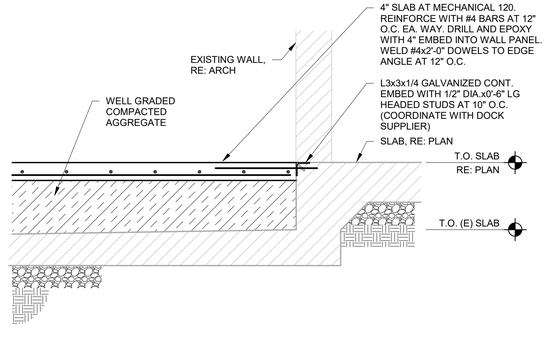


5 SLAB INFILL DETAIL
3/4" = 1'-0"

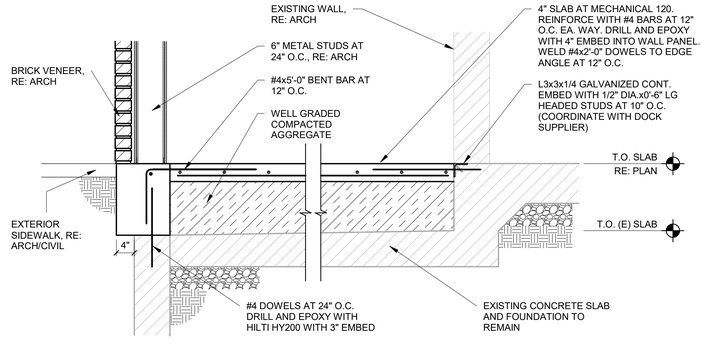
4 NEW OPENING IN EXISTING WALL
3/4" = 1'-0"



3 MECHANICAL PAD DETAIL
3/4" = 1'-0"



2 FOUNDATION SECTION
3/4" = 1'-0"



1 FOUNDATION SECTION
3/4" = 1'-0"

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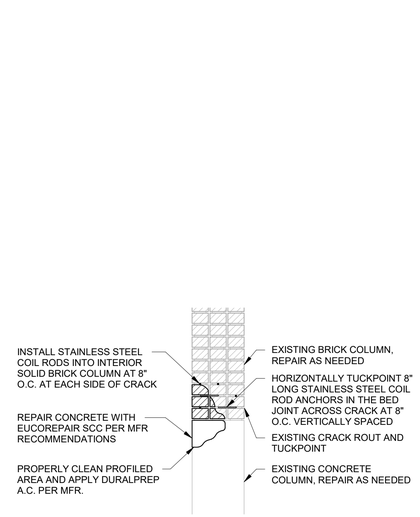
02/28/2024

No.	Revision/Issue	Date	BY	APP'D

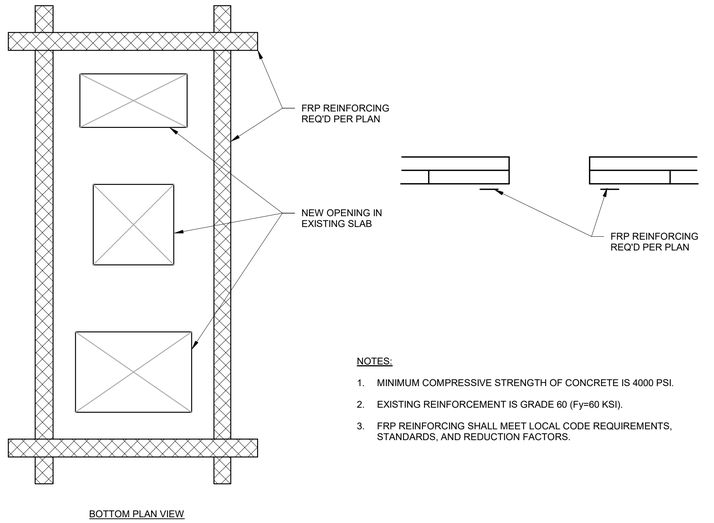
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: FOUNDATION DETAILS

DRAWN BY: AJG	LEAD DESIGNER: AJG
QUALITY REVIEWER: JMG	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AJG	SHEET: S3.01
DATE: 29 FEB. 2024	17 OF 100
SCALE: AS NOTED	



8 COLUMN REPAIR DETAIL
3/4" = 1'-0"

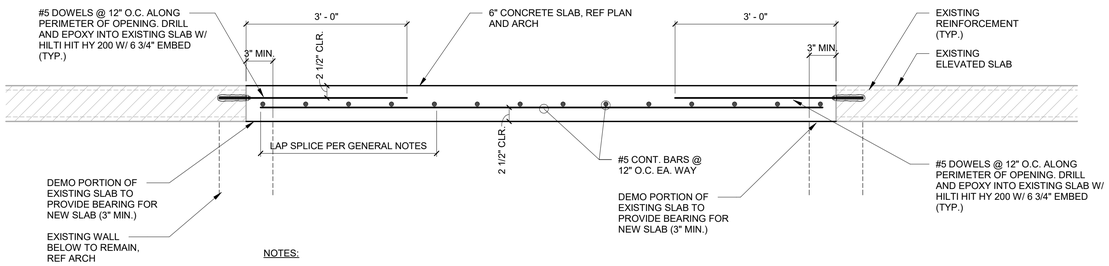


BOTTOM PLAN VIEW

NOTES:

1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE IS 4000 PSI.
2. EXISTING REINFORCEMENT IS GRADE 60 (Fy=60 KSI).
3. FRP REINFORCING SHALL MEET LOCAL CODE REQUIREMENTS, STANDARDS, AND REDUCTION FACTORS.

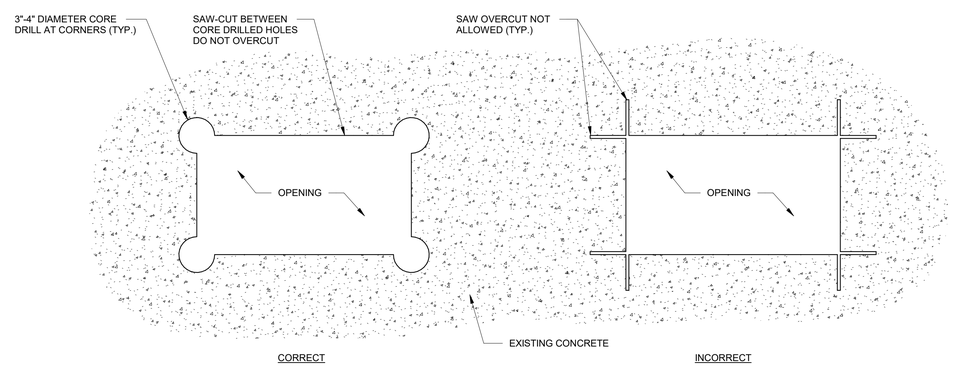
7 FRP PLAN DETAILS
3/4" = 1'-0"



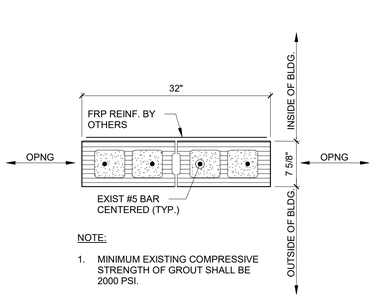
NOTES:

1. CONDITIONS AND DIMENSIONS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING DRAWINGS, FIELD MEASUREMENTS AND FIELD OBSERVATIONS. DETAILS HAVE BEEN DEVELOPED BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN, AND, IF THE AS-BUILT CONDITION IS DIFFERENT THAN THAT REPRESENTED IN THESE DOCUMENTS, SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
2. CONTRACTOR SHALL PROVIDE SHORING & CRIBBAGE OF FORMS TO FOUNDATION LEVEL DURING POURING AND CONSTRUCTION OF SLAB. SHORING AND CRIBBAGE SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ACHIEVED 75% OF DESIGN STRENGTH.
3. CONTRACTOR SHALL PROVIDE BOARD FORMS FOR BOTTOM OF SLAB TO MATCH APPEARANCE OF EXISTING SLAB.

6 CONCRETE SAWCUT DETAIL
3/4" = 1'-0"



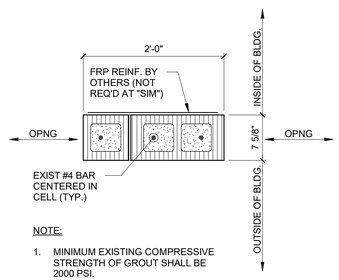
5 CONCRETE SAWCUT DETAIL
1" = 1'-0"



NOTE:

1. MINIMUM EXISTING COMPRESSIVE STRENGTH OF GROUT SHALL BE 2000 PSI.
2. MINIMUM EXISTING COMPRESSIVE OF MASONRY SHALL BE 1350 PSI.
3. SEE JAMB REQUIREMENTS SCHEDULE PER SHEET S601.

4 LINTEL DETAIL
1" = 1'-0"



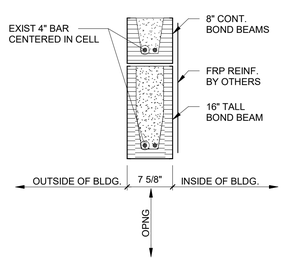
NOTE:

1. MINIMUM EXISTING COMPRESSIVE STRENGTH OF GROUT SHALL BE 2000 PSI.
2. MINIMUM EXISTING COMPRESSIVE OF MASONRY SHALL BE 1350 PSI.
3. SEE JAMB REQUIREMENTS SCHEDULE PER SHEET S601.

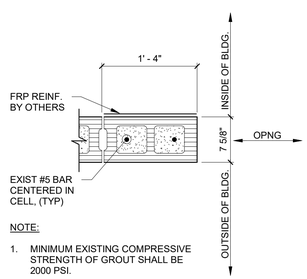
3 LINTEL DETAIL
1" = 1'-0"

NOTE:

1. MINIMUM EXISTING COMPRESSIVE STRENGTH OF GROUT SHALL BE 2000 PSI.
2. MINIMUM EXISTING COMPRESSIVE OF MASONRY SHALL BE 1350 PSI.
3. SEE HEADER REQUIREMENTS SCHEDULE PER SHEET S602.



2 LINTEL DETAIL
1" = 1'-0"



NOTE:

1. MINIMUM EXISTING COMPRESSIVE STRENGTH OF GROUT SHALL BE 2000 PSI.
2. MINIMUM EXISTING COMPRESSIVE OF MASONRY SHALL BE 1350 PSI.
3. SEE JAMB REQUIREMENTS SCHEDULE PER SHEET S601.

1 JAMB DETAIL
1" = 1'-0"

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 20645 JAMES GRANICH

02/28/2024

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: FRAMING DETAILS

DRAWN BY: AJG	LEAD DESIGNER: AJG
TECH. REVIEWER: JMG	PROJECT NUMBER: NKAK 21-1034
RESPONSIBLE BY: AJG	SHEET: S4.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	18 OF 100

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FRP REACTION SCHEDULE

WALL LOCATION		OUT-OF-PLANE LOAD (PSF)	AXIAL LOAD (DL/LL)(PLF)	IN-PLANE LOAD (PLF)
1st - 2nd	INTERIOR	5.0	3295/1140	AS SHOWN ON PLAN
	EXTERIOR	20.2	2715/890	
2nd - 3rd	INTERIOR	5.0	2105/685	
	EXTERIOR	20.2	1785/535	
3rd - ROOF	INTERIOR	5.0	285/230	
	EXTERIOR	20.2	225/180	

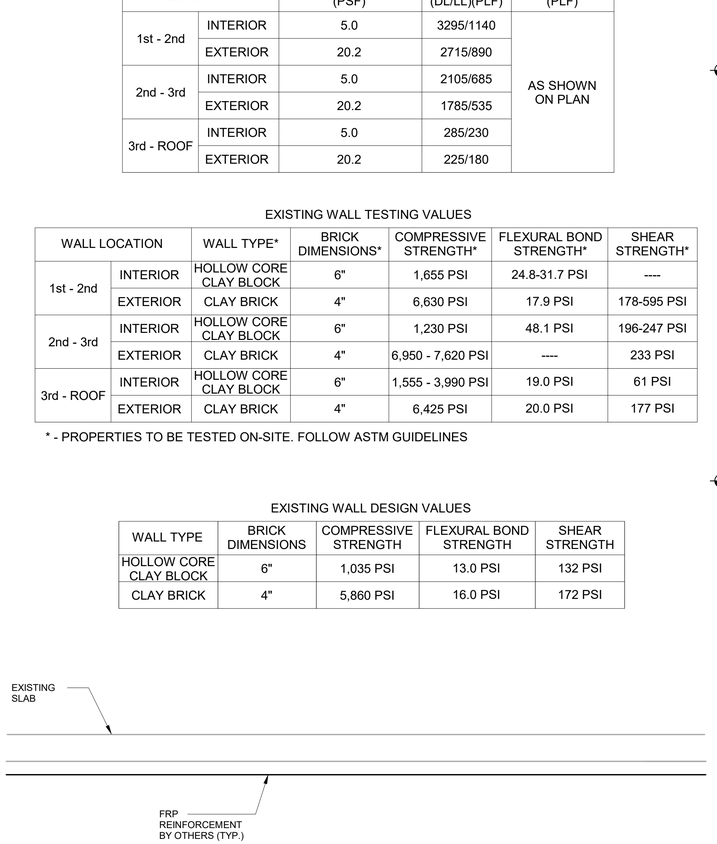
EXISTING WALL TESTING VALUES

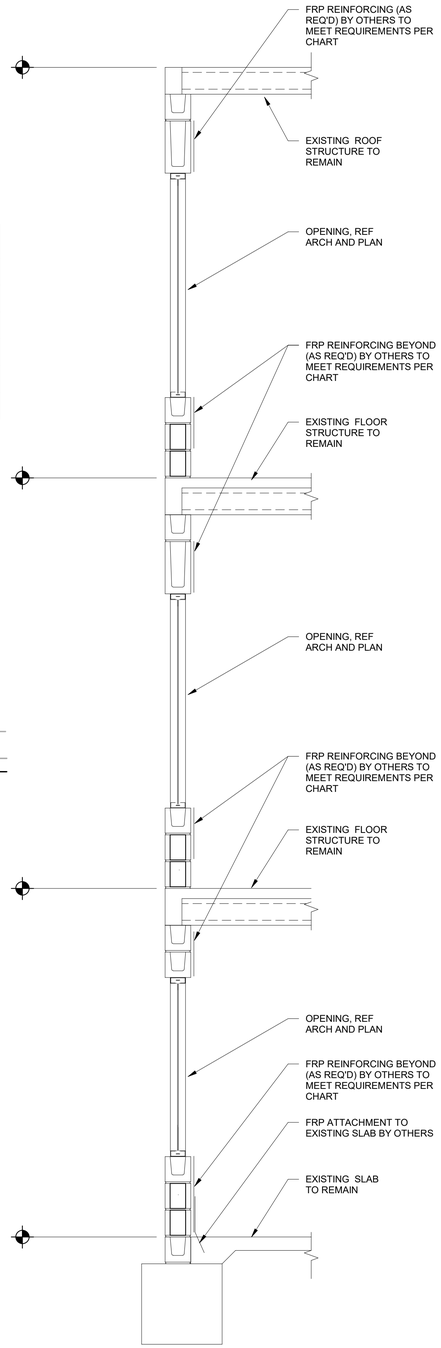
WALL LOCATION		WALL TYPE*	BRICK DIMENSIONS*	COMPRESSIVE STRENGTH*	FLEXURAL BOND STRENGTH*	SHEAR STRENGTH*
1st - 2nd	INTERIOR	HOLLOW CORE CLAY BLOCK	6"	1,655 PSI	24.8-31.7 PSI	----
	EXTERIOR	CLAY BRICK	4"	6,630 PSI	17.9 PSI	178-595 PSI
2nd - 3rd	INTERIOR	HOLLOW CORE CLAY BLOCK	6"	1,230 PSI	48.1 PSI	196-247 PSI
	EXTERIOR	CLAY BRICK	4"	6,950 - 7,620 PSI	----	233 PSI
3rd - ROOF	INTERIOR	HOLLOW CORE CLAY BLOCK	6"	1,555 - 3,990 PSI	19.0 PSI	61 PSI
	EXTERIOR	CLAY BRICK	4"	6,425 PSI	20.0 PSI	177 PSI

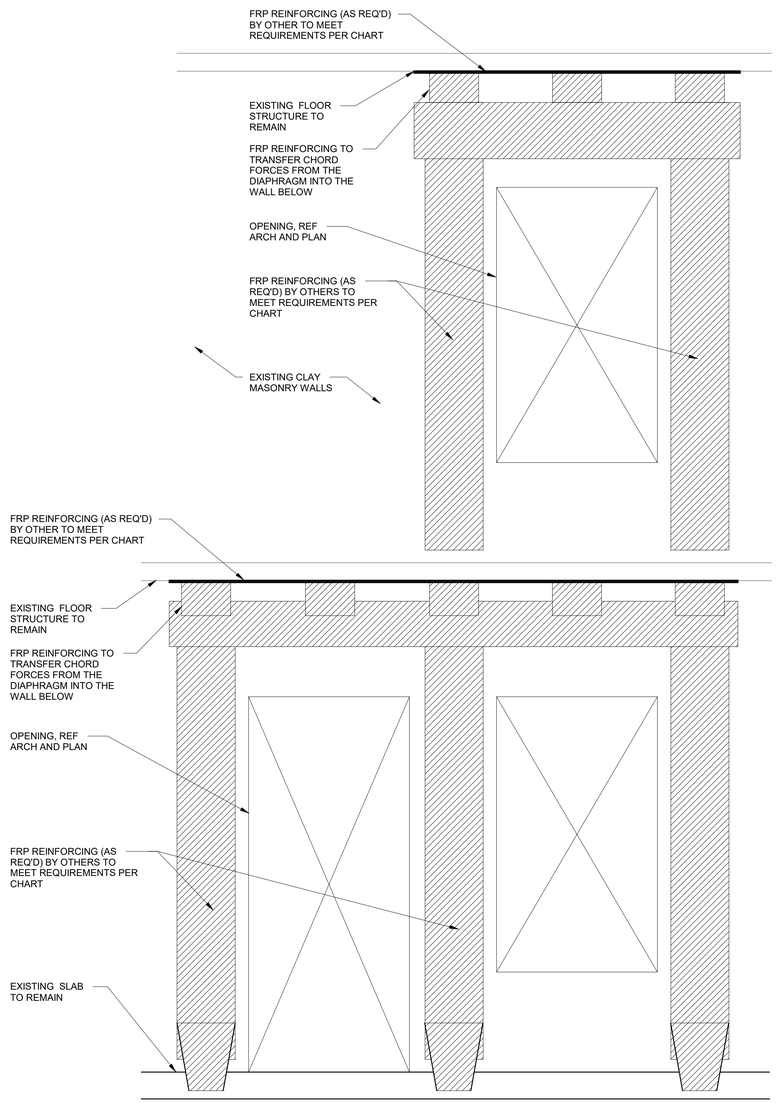
* - PROPERTIES TO BE TESTED ON-SITE. FOLLOW ASTM GUIDELINES

EXISTING WALL DESIGN VALUES

WALL TYPE	BRICK DIMENSIONS	COMPRESSIVE STRENGTH	FLEXURAL BOND STRENGTH	SHEAR STRENGTH
HOLLOW CORE CLAY BLOCK	6"	1,035 PSI	13.0 PSI	132 PSI
CLAY BRICK	4"	5,860 PSI	16.0 PSI	172 PSI







EXTERNALLY BONDED CARBON FIBER (CFRP) SHEAR STRENGTHENING INSTALLATION:

1. INSTALLING CONTRACTOR SHALL PROVIDE EVIDENCE OF TRAINING AND PREVIOUS EXPERIENCE WITH THE INSTALLATION PROCEDURES DEVELOPED BY THE CFRP SYSTEM MANUFACTURER.
2. THE CONCRETE DOUBLE TEE SUBSTRATE SHALL BE PROPERLY REPAIRED AND PREPARED ACCORDING TO THE INSTALLATION PROCEDURES DEVELOPED BY THE CFRP SYSTEM MANUFACTURER.
3. SURFACE SHALL BE CLEANED, REPAIRED, VOIDS FILLED WITH RESIN BASED PUTTY, AND ROUGHENED PER ACI 440 AND THE INSTALLATION PROCEDURES. THE BOTTOM CORNERS OF THE TEE SHALL BE ROUNDED AT THE CORNERS TO A 0.5 IN. RADIUS. THE SURFACE SHALL BE DRY PRIOR TO BONDING CFRP WRAP TO CONCRETE. THE SURFACE OF THE CONCRETE SHALL BE PREPARED TO PROMOTE CONTINUOUS CONTACT BETWEEN THE CONCRETE SURFACE AND CFRP WRAP.
4. THE CFRP SYSTEM INSTALLER SHALL SUBMIT INFORMATION ON CFRP WRAP AND ADHESIVE. THE SUBMITTAL SHALL INCLUDE THE INSTALLATION, CURING AND QUALITY CONTROL PROCEDURES WITH THE INSTALLER QUALIFICATIONS PRIOR TO INSTALLATION.
5. THE CFRP WRAP SYSTEM SHALL BE A SYSTEM WITH THE FIBERS ORIENTED TRANSVERSE TO THE AXIS OF THE MEMBER FOR SHEAR STRENGTHENING.
6. THE CFRP WRAP SHALL MEET THE FOLLOWING MINIMUM DESIGN PROPERTIES:
   A. THICKNESS = 0.015 IN. MIN.
   B. TENSILE STRENGTH = 104 KSI
   C. TENSILE MODULUS OF ELASTICITY = 8855 KSI
   D. TENSILE % ELONGATION = 1.09 %
7. INSTALLER SHALL FOLLOW AND DOCUMENT QUALITY CONTROL PROCEDURES AS PROVIDED BY MANUFACTURER OR AS DESIGNATED IN THE ICC EVALUATION SERVICES, INC. ACCEPTANCE CRITERIA DOCUMENT AC178.
8. RESIN TESTS SHALL BE PROVIDED PER ASTM D3218. TWO RANDOM BATCHES OF RESINS, INCLUDING PRIMERS, SATURANTS, ADHESIVES, AND COATINGS MIXED EACH DAY SHALL BE TESTED TO ASSURE PROPER MIX RATIO.
9. FIELD PULL-OFF TESTS SHALL BE PROVIDED PER ASTM D4541 OR ACI 503R. FIELD PULL-OFF TESTS SHALL BE PERFORMED ON A MINIMUM OF 1 TEST PANEL PER DAY, FOR EACH NEW BATCH OF RESIN OR FABRIC, AND AS A MINIMUM 1 TEST EVERY 75 CURED LAMINATE STRIPS INSTALLED OR EVERY 6 PRECAST TEE STEMS REINFORCED.
10. SPECIAL INSPECTIONS AND FIELD VISUAL INSPECTIONS SHALL BE PERFORMED BY A TESTING COMPANY TRAINED IN FRP INSTALLATION AND INSPECTION OR AN ENGINEER PER ACI 440.2 AND AC178.

1 FRP ELEVATION
3/4" = 1'-0"

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20645
JAMES GRANICH
02/28/2024

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FRAMING DETAILS

DRAWN BY: AJG	LEAD DESIGNER: AJG
TECH. REVIEWER: JMG	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: AJG	SHEET: S4.02
DATE: 29 FEB. 2024	19 OF 100
SCALE: AS NOTED	

ABBREVIATION LEGEND

A.R.	ANCHOR RODS
ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
B PL	BASE PLATE
BF	BOTTOM OF FOOTING
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BOTTOM OF PIER
BRG	BEARING
BTWN	BETWEEN
C	CHANNEL SHAPE (i.e. C8x11.5)
C	COLD FORMED C SHAPE
C.G.	CENTER OF GRAVITY
CJ	(KEYED) CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBL	DOUBLE
DEG	DEGREES
DIA	DIAMETER
DIM	DIMENSION
DTL	DETAIL
DWLS	DOWELS
EA	EACH
EJ	EXPANSION JOINT
EL.	ELEVATION
ELEV	ELEVATION
EMBED	EMBEDMENT LENGTH
EOS	EDGE OF SLAB
ERECT	ERECTION
EWEF	EACH WAY, EACH FACE
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FF	FINISHED FLOOR
F/V	FIELD VERIFY
FFE	FINISHED FLOOR ELEVATION
FIN FLR EL	FINISHED FLOOR ELEVATION
FS	FAR SIDE
FTG	FOOTING
Fy	STEEL YIELD STRENGTH
GA	GAUGE
GB	GRADE BEAM
HORIZ	HORIZONTAL
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION (STEEL)
I/S	INSIDE
INFO	INFORMATION
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JT	JOINT
K	KIPS (KILO-POUNDS)
k/ft	KIPS PER FOOT
KD	KILN-DRIED
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE (i.e. L3x3x1/4)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LW	LONG WAY
M.B.	METAL BUILDING
MC	MOMENT CONNECTION
MAT'L	MATERIAL
MAX	MAXIMUM
MC	MISC. CHANNEL SHAPE (i.e. MC12x10.6)
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC.	MISCELLANEOUS
MPH	MILES PER HOUR
MTL	METAL
MISD.	NUMBER
N.S.	NON-SHRINK
NS	NEAR SIDE
NTS	NOT TO SCALE
o.c.	ON CENTER
O/S	OUTSIDE
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP.	OPPOSITE
OSB	ORIENTED STRAND BOARD
PF###	PAD FOOTING (###-SIZE IN FEET)
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
RE:	REFERENCE
REINF	REINFORCING
REQ'D	REQUIRED
RTU	ROOF TOP UNIT
S	STANDARD STEEL SHAPE (i.e. S10x35)
SCHED.	SCHEDULE
SECT	SECTION
SIM	SIMILAR
SJ	(SAWN) CONTROL JOINT
SQ	SQUARE
STIFF	STIFFENER
SW	SHORT WAY
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPERATURE
TF	TOP OF FOOTING
TOC	TOP OF COLUMN
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VER	VERIFY
VERT	VERTICAL
W	WIDE FLANGE SHAPE (i.e. W8x10)
WP	WORK POINT
w/	WITH
w/o	WITHOUT
WWR	WELDED WIRE REINFORCING (i.e. WIRE MESH)

STRUCTURAL NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL CONTRACT DOCUMENTS AND INFORM THE ARCHITECT OF CONFLICTS OR DISCREPANCIES PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION.
2. IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE THE FIELD VERIFICATION OF ALL EXISTING SITE CONDITIONS SUCH AS EXISTING FLOOR ELEVATIONS, EXISTING FOOTING ELEVATIONS, EXISTING UTILITIES, ETC. WHETHER NOTED OR NOT IN THE CONTRACT DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS, DISCREPANCIES OR UNKNOWN CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.
4. REPRODUCTION OF CONTRACT DRAWINGS, IN ANY FORM, WILL NOT BE ACCEPTED AS SHOP DRAWINGS.
5. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER-OF-RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL FOR REVIEW. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION.
6. CONTRACTOR SHALL PROVIDE TEMPORARY GUYS AND BRACING AS REQUIRED DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS, AND DECKING IS IN PLACE.
7. ACI, AISC, AITC AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION.

CONCRETE NOTES

CONCRETE REINFORCEMENT

1. CONCRETE REINFORCEMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
2. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
3. PROVIDE THE FOLLOWING PROTECTIVE COVERING FOR ALL REINFORCING BARS UNLESS DETAILED OR NOTED OTHERWISE:

SLAB-ON-GRADE BARS (BOTTOM)	3" CLEAR
BELOW GRADE (CAST AGAINST EARTH)	3" CLEAR
BELOW GRADE (FORMED EDGE)	2" CLEAR
WALLS	2" CLEAR
COLUMNS	1.5" CLEAR TO TIES
ELEVATED BEAMS	1.5" CLEAR TO STIRRUPS
ELEVATED SLABS & JOISTS	0.75" CLEAR

4. DO NOT CUT TIES OR CONTINUOUS BARS TO PROVIDE CLEARANCE FOR EMBEDDED ITEMS OR OTHER OBSTRUCTIONS. INDIVIDUAL BARS AND TIES MAY BE MOVED VERTICALLY UP TO 1.5" AS REQUIRED TO PROVIDE CLEARANCE FOR EMBEDS, HOOKS, ETC. DO NOT HEAT REINFORCING TO BEND IT.
5. IF DOWELS OR VERTICAL REINFORCING ARE CUT OR SEVERELY BENT, CONTRACTOR MAY BE REQUIRED TO REMOVE THE CONCRETE BACK TO THE PREVIOUS POUR JOINT AND REPLACE THE DAMAGED BARS AND CONCRETE AT THE CONTRACTOR'S EXPENSE.
6. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO FABRICATION.
7. REINFORCING BARS MARKED AS CONTINUOUS SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICES ONLY.
8. ALL TENSION LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE.
9. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP REINFORCEMENT 8 INCHES ON SIDES AND ENDS. MAINTAIN WIRE 1 TO 2 INCHES BELOW TOP SURFACE OF SLAB-ON-GRADE, UNLESS NOTED OTHERWISE. WELDED WIRE REINFORCEMENT MUST BE PLACED ON CHAIRS OR BOLSTERS AS REQUIRED TO MAINTAIN POSITION IN THE SLAB.
10. ONCE SHOP DRAWINGS HAVE BEEN REVIEWED, DO NOT ADD REINFORCING OR INFORMATION TO PREVIOUSLY SUBMITTED SHEETS FOR SUBSEQUENT SUBMITTALS UNLESS SHOP DRAWINGS ARE BEING RESUBMITTED AFTER BEING RETURNED "NOT REVIEWED".
11. WHERE ANCHOR RODS ARE CAST INTO CONCRETE, PROVIDE SUPPLEMENTAL REINFORCING EACH WAY, TIED NEAR THE TOP AND BOTTOM OF ALL ANCHOR RODS TO THE ADJACENT REBAR TO SECURE RODS DURING CONCRETE PLACEMENT. (MINIMUM SIZE #4)

CAST-IN-PLACE CONCRETE (03 30 00)

1. CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DESIGN DATA TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
2. CONCRETE SHALL HAVE AT LEAST THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:

A. FOOTINGS & GRADE BEAMS	4000 PSI
B. REINFORCED CMU & BOND BEAM FILL	(SEE MASONRY NOTES)
C. SLABS-ON-GRADE, WALLS, PILASTERS & PEDESTALS	4000 PSI
D. ELEVATED SLABS, BEAMS & JOISTS	4000 PSI

3. SEE CONCRETE MIX DESIGN TABLE
4. PROPORTIONS OF CONCRETE MIX DESIGNS SHALL BE DETERMINED BY THE PROCEDURES ESTABLISHED IN SECTION 5.3 OF ACI 318-11.
5. MIX DESIGN MAY INCLUDE (TYPE C) FLYASH AS A REPLACEMENT FOR PORTLAND CEMENT UP TO A MAXIMUM OF 25% OF THE TOTAL CEMENTIOUS MATERIAL. DO NOT USE A FLYASH CONTAINING CONCRETE MIX WHEN THE TEMPERATURE DURING PLACEMENT OR CURING IS PROJECTED TO FALL BELOW 60 DEGREES FAHRENHEIT.
6. MIX DESIGN MAY INCLUDE WATER REDUCING ADMIXTURES CONFORMING TO ASTM C494, TYPE A, TO PROVIDE WORKABILITY AND SPECIFIED SLUMP WITHOUT EXCEEDING SPECIFIED WATER/CEMENT RATIOS. WATER SHALL NOT BE ADDED ON SITE WITHOUT PRIOR APPROVAL. ANY APPROVED WATER AMOUNTS ADDED ON SITE MUST BE RECORDED & REPORTED BY THE TESTING AGENCY.
7. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 5.5% AIR ENTRAINMENT (± 1.5%). DO NOT EXCEED 3% AIR CONTENT IN CONCRETE RECEIVING A STEEL TROWEL FINISH.

ARCHITECTURAL PRECAST CONCRETE (03 45 00)

1. PRECAST MANUFACTURER SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. ARCHITECTURAL PRECAST CONCRETE SHALL BE DESIGNED AND MANUFACTURED BY A FIRM EXPERIENCED IN THE FIELD. MANUFACTURER SHALL ACCEPT FULL RESPONSIBILITY FOR THE DESIGN OF ALL PANELS AND CONNECTIONS TO THE STRUCTURE.
3. PRECAST MANUFACTURER SHALL ADD REINFORCING REQUIRED FOR CONSTRUCTING, TRANSPORTING, LIFTING AND ERECTING ALL MEMBERS.
4. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS (AND COORDINATE WITH THE VARIOUS CONTRACTORS) FOR THE EXACT SIZE AND LOCATION OF OPENINGS IN THE MEMBERS AND FOR ADDITIONAL EMBEDS REQUIRED BY ALL TRADES.
5. COORDINATE THE LOCATION AND ELEVATION OF ALL MEMBER JOINTS WITH THE ARCHITECTURAL DRAWINGS.
6. ALL STEEL CONNECTIONS EXPOSED TO WEATHER (BOLTS, INSERTS, EMBEDS, ETC.) USED TO CONNECT EXTERIOR PRECAST MEMBERS TO THE STRUCTURE SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. ALL GALVANIZED COATINGS DAMAGED DURING SHIPPING, ERECTING, FIELD WELDING, ETC. SHALL BE REPAIRED WITH TWO (2) COATS OF COLD SPRAY GALVANIZING OR EQUAL REPAIR.
7. ALL REBAR WITH ONE INCH (1") OR LESS CONCRETE COVER TO THE SURFACE OF THE PRECAST MEMBERS SHALL BE HOT DIPPED GALVANIZED OR OTHERWISE PROTECTED FROM CORROSION.
8. CONCRETE FOR PRECAST MEMBERS SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 5000 PSI AT 28 DAYS.
9. SEE ARCHITECT FOR ALL COLOR, AGGREGATE AND FINISH REQUIREMENTS FOR ARCHITECTURAL PRECAST.

CAST-IN-PLACE CONCRETE MIX DESIGN TABLE

MIX DESIGN SHALL INCLUDE AT LEAST THE FOLLOWING AMOUNTS OF PORTLAND CEMENT MEETING ASTM C150 OR D595 PER CUBIC YARD OF CONCRETE

	NON-AIR ENTRAINED		AIR ENTRAINED		
28 DAY MIN. COMPRESSIVE STRENGTH	MIN. CEMENT CONTENT (LBS/YARD³)	MAXIMUM PERMISSIBLE W/C RATIO	MIN. CEMENT CONTENT (LBS/YARD³)	MAXIMUM PERMISSIBLE W/C RATIO	MAX. SLUMP w/ WRA
4000	564	0.44	611	0.40	6"

METALS NOTES (05 00 00)

STRUCTURAL STEEL (05 12 00)

1. STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. ALL STRUCTURAL STEEL SHAPES SHALL BE AS FOLLOWS:
   A. ALL WIDE FLANGE STRUCTURAL STEEL SHAPES (W) SHALL BE ASTM A992.
   B. SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE ASTM A500, GRADE C, Fy = 46 KSI
   C. ROUND HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE ASTM A500, GRADE C, Fy = 46 KSI
   D. ROUND STEEL PIPES (P, PX, PXX) SHALL BE ASTM A53, GRADE B, FY = 35 KSI.
   E. ALL OTHER STRUCTURAL STEEL (CHANNELS (C), ANGLES (L), PLATES (PL), ETC.) SHALL BE ASTM A36, UNLESS NOTED OTHERWISE.
3. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 (OR GRADE 55 WITH SUPPLEMENT S1 – WELDABILITY) UNLESS NOTED OTHERWISE.
4. STRUCTURAL BOLTS SHALL BE ASTM F3125 GRADE A325-N, (OR GRADE A490-N) UNLESS OTHERWISE NOTED.
5. BOLTS THRU WOOD BLOCKING SHALL BE ASTM A307. ALL BOLTS IN CONTACT WITH TREATED WOOD SHALL BE STAINLESS STEEL (TYPE 316L), OR HOT DIPPED GALVANIZED WITH A MINIMUM COATING THICKNESS OF 0.2 OUNCES PER SQUARE FOOT (ASTM A153). USE STAINLESS BOLTS WITH STAINLESS STEEL CONNECTORS AND GALVANIZED BOLTS WITH GALVANIZED CONNECTORS IF ONLY ONE IS SPECIFIED.
6. POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy=36ksi OR ASTM F593 STAINLESS STEEL ANCHORS WITH A MINIMUM STEEL YIELD STRENGTH OF fy=45ksi, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE SHALL BE HILTI "HIT-RE 500-SD" SYSTEM (REF: ICC-ES ESR-2322), SIMPSON STRONG-TIE "SET-3G" SYSTEM (REF: ICC-ES AC308), DEWALT "PURE 110+" SYSTEM (REF: ISS-ES ESR 3298), (OR APPROVED EQUAL). (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
7. POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE FILLED CMU CELLS SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy=36ksi OR ASTM F593 STAINLESS STEEL ANCHORS WITH A MINIMUM STEEL YIELD STRENGTH OF fy=45ksi, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE SHALL BE HILTI "HIT-HY70" SYSTEM (REF: ICC-ES ESR-2682), SIMPSON STRONG-TIE "SET-XP" SYSTEM (REF: IAPMO UES ER-265), DEWALT "AC 100+ GOLD" SYSTEM (REF: ICC-ES ESR 3200), (OR APPROVED EQUAL). (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
8. POST-INSTALLED ADHESIVE ANCHORS IN HOLLOW CMU OR CLAY MASONRY SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy=36ksi OR ASTM F593 STAINLESS STEEL ANCHORS WITH A MINIMUM STEEL YIELD STRENGTH OF fy=45ksi, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE AND SCREEN TUBES SHALL BE HILTI "HIT-HY70" SYSTEM (REF: ICC-ES ESR-2682), SIMPSON STRONG-TIE "ET-HP" SYSTEM (REF: IAPMO UES ER-241), DEWALT "AC 100+ GOLD" SYSTEM (REF: ICC-ES ESR 3200), (OR APPROVED EQUAL). (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
9. POST-INSTALLED EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI "KWIK BOLT TZ" (REF: ICC-ES ESR-1917), SIMPSON STRONG-TIE "STRONG BOLT 2" (REF: ICC-ES ESR-3037), DEWALT "POWER STUD+ SD1+" (REF: ICC-ES ESR-2818), (OR APPROVED EQUAL) CARBON STEEL ANCHORS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
10. POST-INSTALLED SCREW ANCHORS SHALL BE HILTI "KWIK HUS EZ" (REF: ICC-ES ESR-3027), SIMPSON STRONG-TIE "TITEN HD" (REF: ICC-ES ESR-2713), DEWALT "SCREW BOLT" (REF: ICC ESR-3889), (OR APPROVED EQUAL), UNLESS NOTED OTHERWISE. (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
11. CONNECTIONS WITH HIGH STRENGTH BOLTS SHALL BE DESIGNED CONSIDERING BOLT THREADS INCLUDED IN THE SHEAR PLANE (A325-N). ALL BOLTING SHALL BE INSTALLED BY THE TURN-OF-THE-NUT METHOD, REMOVABLE LOAD INDICATOR BOLTS, OR CALIBRATED WRENCH. SNUG TIGHT BOLTING WILL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON CONTRACT DRAWINGS.
12. ALL HIGH STRENGTH BOLTED CONNECTIONS (EXCEPT COMPOSITE FLOOR BEAM CONNECTIONS) SHALL BE BEARING TYPE SELECTED TO SUPPORT ONE-HALF (1/2) OF THE MAXIMUM TOTAL UNIFORM LOAD CAPACITY OF THE BEAMS AS SHOWN IN TABLE 3-6 OF THE AISC MANUAL, 14TH EDITION, FOR THE GIVEN BEAM SIZE, SPAN AND GRADE OF STEEL SPECIFIED. THE EFFECTS OF ANY CONCENTRATED LOADS MUST BE TAKEN INTO ACCOUNT. CONNECTIONS SHALL BE DESIGNED CONSIDERING THREADS INCLUDED IN THE SHEAR PLANE (A325-N).
13. ALL WELDS SHALL BE E70XX, MINIMUM AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS, CERTIFIED WITHIN THE PREVIOUS TWELVE (12) MONTHS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE BUILDING AND COMPONENTS DUE TO FIRE HAZARDS FROM WELDING.
14. DO NOT PRIME PAINT STEEL THAT RECEIVES SPRAYED FIREPROOFING.
15. ALL STEEL LINTELS AND SHELF ANGLES SHALL BE COATED WITH A ZINC RICH PRIMER.
16. ALL STRUCTURAL STEEL EXPOSED TO WEATHER (SUCH AS MECHANICAL FRAMES) SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

METAL DECKING (05 31 00)

1. METAL DECKING SUPPLIER SHALL SUBMIT SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. POWDER ACTUATED OR PNEUMATIC FASTENERS MAY NOT BE SUBSTITUTED FOR PUDDLE WELDS.

LIGHT GAUGE METAL TRUSSES (05 44 00)

1. TRUSS FABRICATOR SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. TRUSS DIMENSIONS AND LAYOUT, IF SHOWN, IS FOR ESTIMATING PURPOSES ONLY AND IS NOT NECESSARILY TO BE USED FOR FABRICATION. FABRICATOR SHALL BE RESPONSIBLE FOR ACTUAL DIMENSIONS OF TRUSSES. TRUSSES SHALL UTILIZE ONLY THE BEARING WALLS AND SUPPORTS SHOWN ON THE PLANS.
3. CONTRACTOR SHALL PROVIDE BRACING FOR TRUSS CHORDS AND WEB MEMBERS AS REQUIRED BY THE TRUSS FABRICATOR. SYSTEM IS NOT STABLE UNTIL SHEATHING AND PERMANENT BRACING ARE INSTALLED.
4. TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE TRUSS HANGERS WHERE TRUSSES ARE SUPPORTED BY OTHER TRUSSES.
5. TRUSS MANUFACTURER SHALL COORDINATE ALL HAT CHANNELS AND ATTACHMENT TO TOP AND BOTTOM CHORD OF TRUSS. ADDITIONAL TRUSSES SHALL BE ADDED IF HAT CHANNELS CANNOT CARRY ROOF LOADS OR CEILING LOADS AT TRUSS SPACING SHOWN ON PLAN. HAT CHANNEL DEFLECTION ON ROOF AND CEILING SHALL BE LIMITED TO L/240 TOTAL LOAD AND L/360 LIVE LOAD.
6. TRUSS MANUFACTURER SHALL DESIGN AND COORDINATE A COMPLETE ROOF SYSTEM INCLUDING ALL TRUSSES, HEADERS, CONNECTIONS AND HAT CHANNELS (IF APPLICABLE), ETC.

STRUCTURAL PANELS (06 12 00)

1. PNEUMATIC NAILING MAY BE SUBSTITUTED FOR COMMON NAILS UNDER THE FOLLOWING CONDITIONS:
   A. PNEUMATIC NAIL SUBSTITUTE FOR 8d COMMON NAILS SHALL HAVE A MINIMUM DIAMETER OF 0.131 INCHES AND LENGTH OF 2 ½INCHES.
   B. PNEUMATIC NAIL SUBSTITUTE FOR 10d COMMON NAILS SHALL HAVE A MINIMUM DIAMETER OF 0.148 INCHES AND LENGTH OF 3 INCHES.

   T-HEAD NAILS OR STAPLES ARE NOT ACCEPTABLE.

EARTHWORK & FOUNDATION NOTES (31 00 00)

EXCAVATION & FILL (31 22 00 & 31 23 23)

1. ALL UNDERCUTTING, SITE PREPARATION, FILL SELECTION, BACKFILLING AND COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND SOILS ENGINEER'S RECOMMENDATIONS.
2. SELECT FILL BENEATH THE BUILDING SHALL BE PLACED IN LIFTS NOT EXCEEDING 8" LOOSE THICKNESS AND COMPACTED TO AT LEAST 95% OF MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D1557). THE IN-PLACE DENSITY AND MOISTURE CONTENT SHALL BE ESTABLISHED AND APPROVED FOR EACH LIFT PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS.

SPREAD FOOTINGS (31 24 50)

1. BOTTOM OF FOOTING ELEVATIONS (BF) SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY AND ARE NOT NECESSARILY TO BE USED FOR CONSTRUCTION. THE SOILS ENGINEER OR HIS REPRESENTATIVE SHALL BE ENGAGED TO INSPECT ALL FOOTING EXCAVATIONS TO VERIFY THAT THE REQUIRED ALLOWABLE BEARING CAPACITY IS ATTAINABLE. BOTTOM OF FOOTING ELEVATIONS SHALL BE ADJUSTED PER THE ON-SITE RECOMMENDATIONS OF THE SOILS ENGINEER OR HIS REPRESENTATIVE.
2. ALL SPREAD FOOTINGS SHALL BE FOUNDED ON NATIVE VERY STIFF TO HARD, SHALEY CLAYS AND/OR TESED AND APPROVED NEW SELECT FILL WITH AN ALLOWABLE NET BEARING CAPACITY OF AT LEAST 2000 PSF. (REF: GEOTECHNICAL INVESTIGATION, JOB NO. 14-351 DATED MARCH 2023 BY GTS, INC.)
3. MAINTAIN FINISHED GRADE (AND/OR BOTTOM OF FOOTING ELEVATIONS) TO PROVIDE AT LEAST 1'-6" COVER ABOVE THE BOTTOM OF ALL EXTERIOR FOOTINGS FOR FROST PROTECTION.

RETAINING WALLS (32 32 13)

1. ALL RETAINING WALLS SHALL HAVE A PROPERLY INSTALLED DRAINAGE SYSTEM TO RELIEVE HYDROSTATIC PRESSURE.
2. BACKFILL BOTH SIDES OF WALLS EQUALLY UNTIL LOW SIDE IS UP TO GRADE.
3. PROVIDE ADDITIONAL SHORING FOR ALL FOUNDATION WALLS AS REQUIRED DURING CONSTRUCTION BACKFILLING AND COMPACTION OPERATIONS.
4. ALL FOUNDATION WALLS WITH AN ELEVATED CONCRETE SLAB FRAMING INTO THE TOP OF THEM MAY BE BACKFILLED ONLY AFTER THE ELEVATED SLAB IS IN PLACE AND CURED.
5. IF RETAINING WALLS ARE REQUIRED BY THE BUILDING OFFICIALS TO BE INSPECTED (AS-BUILT CERTIFICATION FORM), THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT REGISTERED ENGINEER OR NOTIFY THE ENGINEER-OF-RECORD AT LEAST 3 DAYS PRIOR TO COVERING UP THE REBAR WITH WALL FACING MATERIAL (WHETHER CONCRETE OR MASONRY), SO THAT IN-PLACE REBAR MAY BE PROPERLY INSPECTED.

DESIGN LOADS:

DEAD LOADS:		WEIGHT OF THE STRUCTURE
ROOF LIVE LOAD:		20 PSF
FLOOR LIVE LOADS:		
LOBBIES		100 PSF
ASSEMBLY AREAS		100 PSF
STAIRS AND EXITS		100 PSF
GROUND SNOW LOAD	Pg:	10 PSF
WIND SPEED FOR RISK CATEGORY II & EXPOSURE C		Vult: 105 MPH Vasd: 82 MPH
BUILDING RISK CATEGORY		II
WIND EXPOSURE CATEGORY		C
INTERNAL PRESSURE COEFFICIENT	GCpi:	+/- 0.18
COMP. & CLADDING WIND PRESSURE	Pnet30:	SEE ASCE 7-10, TABLE 30.7-2
MAPPED SPECTRAL RESPONSE ACCELERATIONS	Ss: S1:	0.578 0.177
SITE CLASS		C
SPECTRAL RESPONSE COEFFICIENTS	Sds: Sd1:	0.463 0.177
SEISMIC DESIGN CATEGORY		C
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-10, TABLE 12.2-1)		SEE WALLACE ENGINEERING DOCUMENTS SEE WALLACE ENGINEERING DOCUMENTS
DESIGN BASE SHEAR	V:	SEE WALLACE DESIGN COLLECTIVE DOCUMENTS
SEISMIC RESPONSE COEFFICIENT	Cs:	SEE WALLACE DESIGN COLLECTIVE DOCUMENTS
RESPONSE MODIFICATION FACTOR	R:	SEE WALLACE DESIGN COLLECTIVE DOCUMENTS
ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE METHOD (PER ASCE 7-10, TABLE 12.6-1 & SECT. 12.8)

CODES: 2021 ARKANSAS FIRE PREVENTION CODE
A.C.A. 12-80-101 ET. SEQ. (ARKANSAS STATE LAW)

CONSTRUCTION DOCUMENTS PROVIDED BY ENGINEERING CONSULTANTS, INC. ARE FOR NEW STRUCTURAL ELEMENTS OUTSIDE THE EXISTING BUILDING ENVELOPE AND ARE DEPENDENT ON THE EXISTING STRUCTURE. WITHOUT STRUCTURAL MODIFICATIONS AND STRENGTHENING TO THE EXISTING STRUCTURE THE NEW STRUCTURAL ELEMENTS WILL NOT PERFORM AS DESIGNED. SEE CONSTRUCTION DOCUMENTS BY WALLACE DESIGN COLLECTIVE FOR REQUIRED STRUCTURAL MODIFICATIONS AND STRENGTHENING.

THE FOUNDATIONS AND STRUCTURAL FRAMING HAVE BEEN DESIGNED TO RESIST THE LOADS AND FORCES STATED ABOVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ARKANSAS FIRE PREVENTION CODE AND A.C.A. 12-80-101 ET. SEQ.

PRE-FABRICATED LIGHT GAUGE METAL TRUSS DESIGN LOADS:

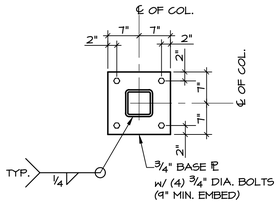
ROOF TRUSSES

DEAD LOAD:	5 PSF (TOP CHORD) 5 PSF (BOTTOM CHORD)
COLLATERAL LOAD:	5 PSF (TOP CHORD) 5 PSF (BOTTOM CHORD)
LIVE LOAD:	20 PSF (NON-REDUCIBLE) TOP CHORD 5 PSF (NON-REDUCIBLE) BOTTOM CHORD
WIND LOAD:	(SEE DESIGN LOADS ABOVE) DO NOT USE COLLATERAL LOAD IN COMBINATION WITH WIND LOAD. TRUSSES SHALL BE DESIGNED FOR COMPONENTS & CLADDING WIND PRESSURES
SNOW LOAD	(SEE DESIGN LOADS ABOVE)
SEISMIC LOAD:	(SEE DESIGN LOADS ABOVE) DO NOT USE COLLATERAL LOAD IN COMBINATION WITH SEISMIC LOAD
CODES:	2021 ARKANSAS FIRE PREVENTION CODE A.C.A. 12-80-101 ET. SEQ. (ARKANSAS STATE LAW)

SPECIAL INSPECTION NOTES

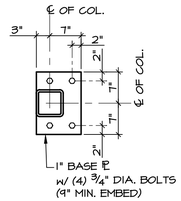
1. SPECIAL INSPECTIONS SHALL BE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE INSPECTION AGENTS.
2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO PERFORM THE REQUIRED INSPECTION TO THE SATISFACTION OF THE BUILDING OFFICIAL.
3. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
4. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF

PAD FOOTING SCHEDULE		
MARK	SIZE (LxWxT)	REINFORCING
PF-500	5'-0"x5'-0"x1'-0"	(5) #6 EACH WAY (BOT.)



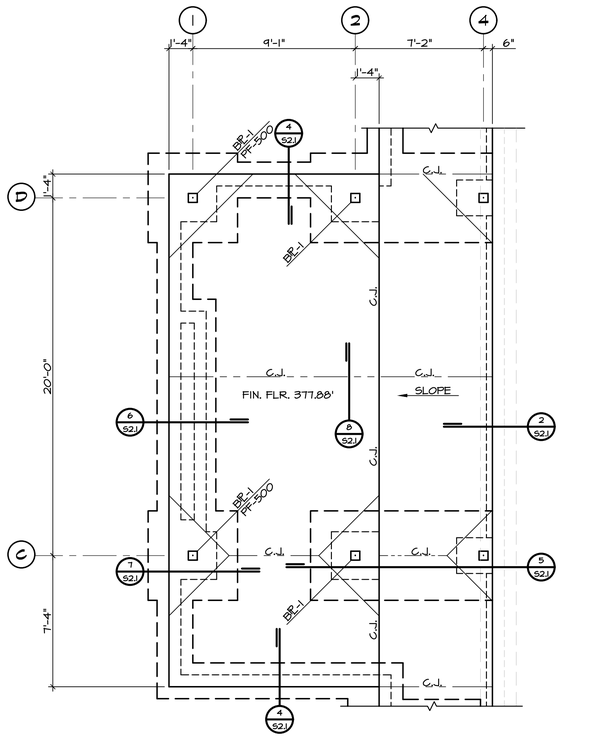
BASE ℙ-1

3/4"=1'-0"



BASE ℙ-2

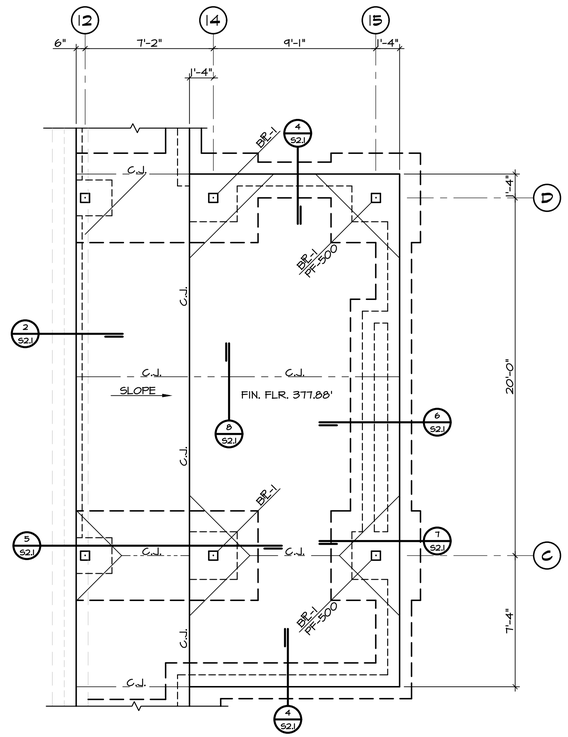
3/4"=1'-0"



NORTH

WEST STAIR FOUNDATION PLAN

1/4"=1'-0"



NORTH

EAST STAIR FOUNDATION PLAN

1/4"=1'-0"

NORTH

FOUNDATION PLAN

1/8"=1'-0"

TYPICAL NEW FLOOR CONSTRUCTION

4" CONCRETE SLAB W/ 6x6-W2.1xW2.1 W.W.F. ON (SEE ARCH) VAPOR BARRIER OVER 4" DRAINAGE FILL

FIN. FLR. EL. = 378.0' = (0'-0") (FIELD VERIFY)

CERTIFICATE OF AUTHORIZATION — ENGINEERING CONSULTANTS, INC. — No. 26 — ARKANSAS ENGINEER

Engineering Consultants, Inc.
Structural Engineers
401 West Capitol Avenue, Suite 305
Little Rock, Arkansas 72201-3401
Phone No: (501) 376-3752
Fax No: (501) 376-7314

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 7263 — JAMES R. BROWN — 2-28-24

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

CLEMENTS & ASSOCIATES
ARCHITECTURE, INC.
507 MAIN STREET
NORTH LITTLE ROCK, ARKANSAS 72114
PHONE: 501-375-3380
WWW.CLEMENTSARCHITECTS.COM

No.	Revision/Issue	Date	BY	APP'D

REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: FOUNDATION PLAN

DRAWN BY | LEAD DESIGNER

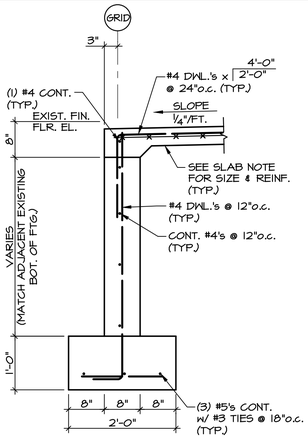
CHK'D/REVIEWED | PROJECT NUMBER: NKAK 21-1034

SIGNED BY | SHEET: S1.1

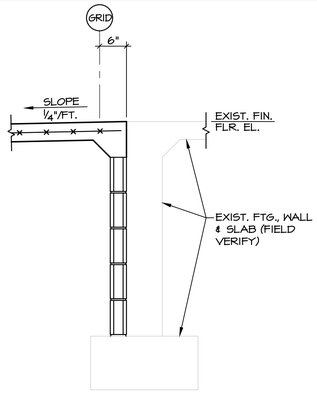
DATE: 29 FEB. 2024

SCALE: AS NOTED

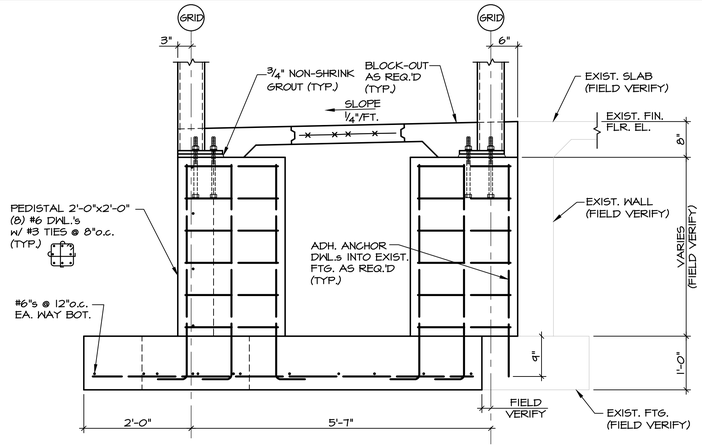
21 OF 100



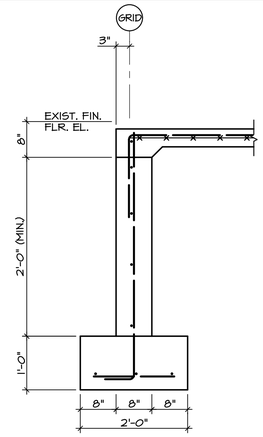
1 SECTION
3/4"=1'-0"



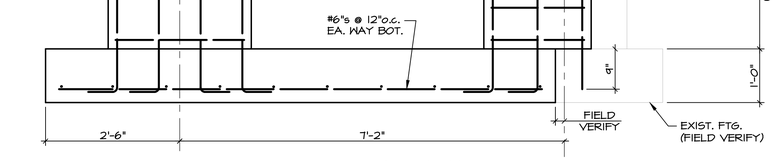
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3/4"=1'-0"



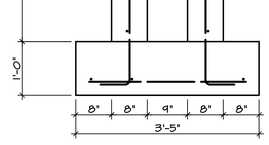
3 SECTION
3/4"=1'-0"



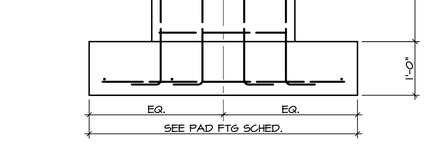
4 SECTION
3/4"=1'-0"



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



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

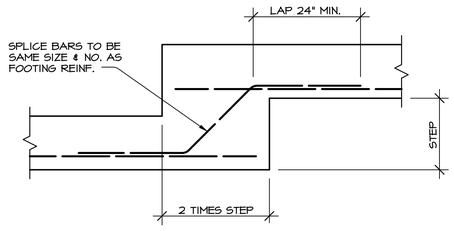


7 SECTION
3/4"=1'-0"

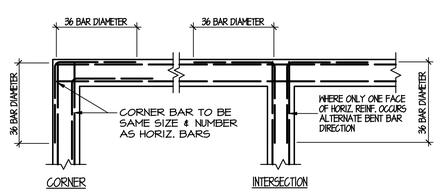


CONTR
IF SAW JOINTS ARE USED, CONTRACTOR IS RESPONSIBLE FOR JOINTS CRACKING AS SHOWN ON PLAN AND DETAIL. SAWING JOINTS SHALL BEGIN AS SOON AS THE SURFACE IS FIRM ENOUGH SO THAT IT WILL NOT BE TORN OR DAMAGED BY THE BLADE. SLABS MUST BE SAWN ON SAME DAY SLAB IS POURED. DO NOT ALLOW SLAB TO CURE OVERNIGHT BEFORE SAWING.

8 CONTROL JOINT DETAIL
N.T.S.



9 SECTION
3/4"=1'-0"



TYPICAL FOR: CONC. FOOTINGS
CONC. FILLED BONDBEAMS
THICKENED SLABS

10 SECTION
3/4"=1'-0"

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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NORTH LITTLE ROCK, ARKANSAS 72114
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WWW.CLEMENTSARCHITECTS.COM

No.	Revision/Issue	Date	BY	APP'D

REPAIR (SUS) AIRMEN DORMITORY BLDG 854

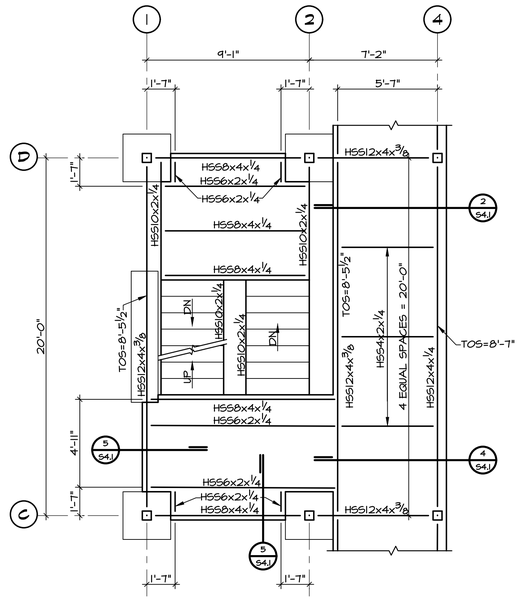
FOUNDATION DETAILS

DRAWN BY:
LEAD DESIGNER:
CH. REVIEWER:
PROJECT NUMBER: NKAK 21-1034
SIGNED BY:
SHEET: S2.1
DATE: 29 FEB. 2024
SCALE: AS NOTED
22 OF 100

CERTIFICATE OF AUTHORIZATION
ENGINEERING CONSULTANTS, INC.
No. 26
ARKANSAS ENGINEER NO.

Engineering Consultants, Inc.
Structural Engineers
401 West Capitol Avenue, Suite 305
Little Rock, Arkansas 72201-3401
Phone No: (501) 376-3752
Fax No: (501) 376-7314

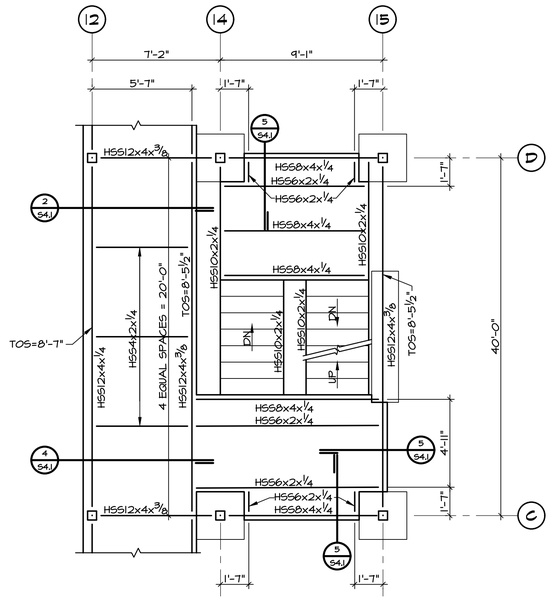
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7263
JAMES R. BROWN
2-28-24



NORTH

WEST STAIR 2ND FLOOR FRAMING PLAN

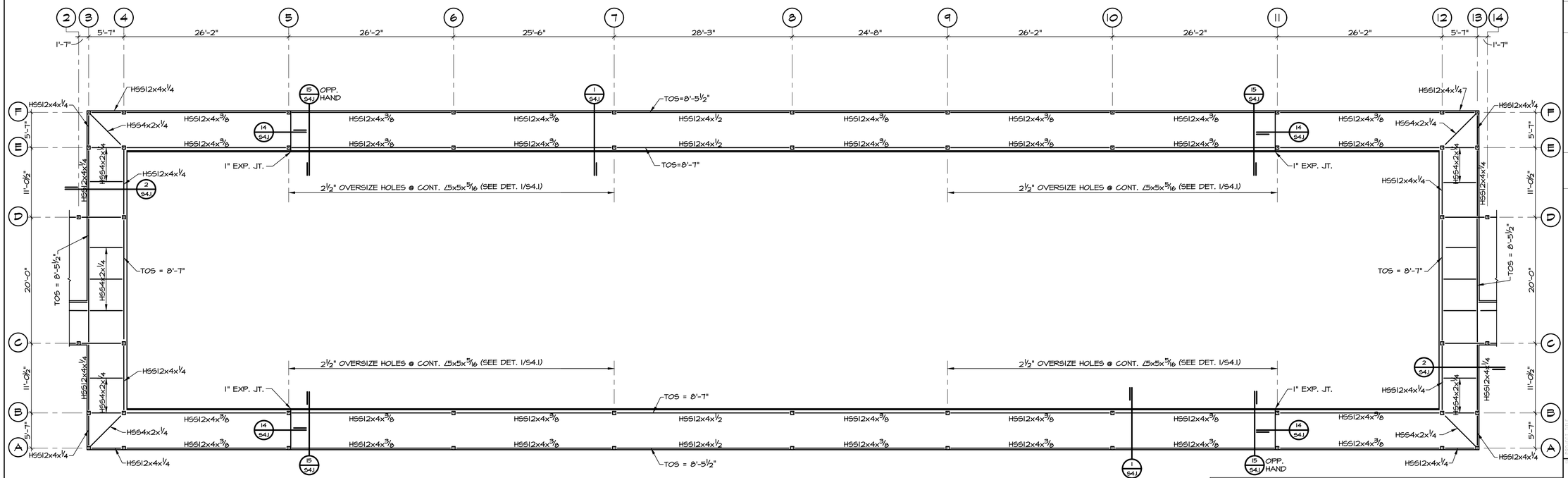
1/8"=1'-0"



NORTH

EAST STAIR 2ND FLOOR FRAMING PLAN

1/8"=1'-0"



TYPICAL FLOOR CONSTRUCTION
5" (4000 PSI) CONCRETE SLAB w/ 4x4-W2.9xW2.9 WWF ON 1.5VL22 GA0 GALVANIZED COMPOSITE FLOOR DECK. ATTACHED TO THE STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS AT 12" ON CENTER AT ALL SUPPORTS.

EXISTING FIN. FLR. EL. = (9'-0") (FIELD VERIFY)

NORTH

2ND FLOOR FRAMING PLAN

1/8"=1'-0"

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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WWW.CLEMENTSARCHITECTS.COM

No.	Revision/Issue	Date	BY	APP'D

REPAIR (SUS) AIRMEN DORMITORY BLDG 854

2ND FLOOR FRAMING

DRAWN BY | LEAD DESIGNER

QCH. REVIEWER | PROJECT NUMBER: NKAK 21-1034

DESIGNED BY | SHEET: S3.1

DATE: 29 FEB. 2024

SCALE: AS NOTED

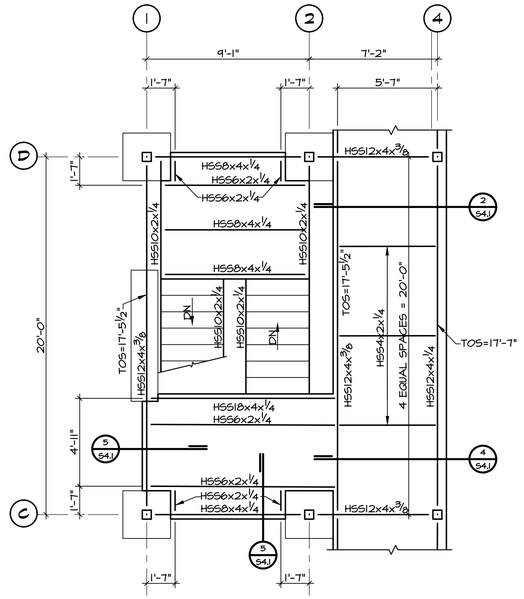
23 OF 100

Engineering Consultants, Inc.
Structural Engineers
401 West Capitol Avenue, Suite 305
Little Rock, Arkansas 72201-3401
Phone No: (501) 376-3752
Fax No: (501) 376-7314

CERTIFICATE OF AUTHORIZATION — ENGINEERING CONSULTANTS, INC. — No. 26 — ARKANSAS ENGINEER NO. 1

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 7263 — JAMES R. BROWN

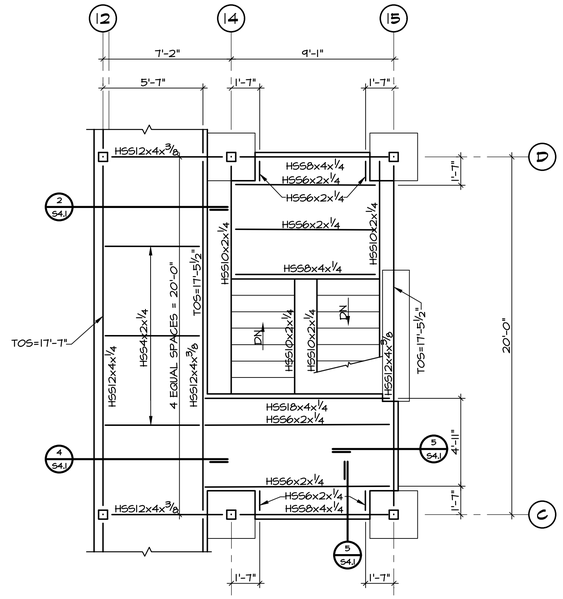
2-28-24



NORTH

WEST STAIR 3RD FLOOR FRAMING PLAN

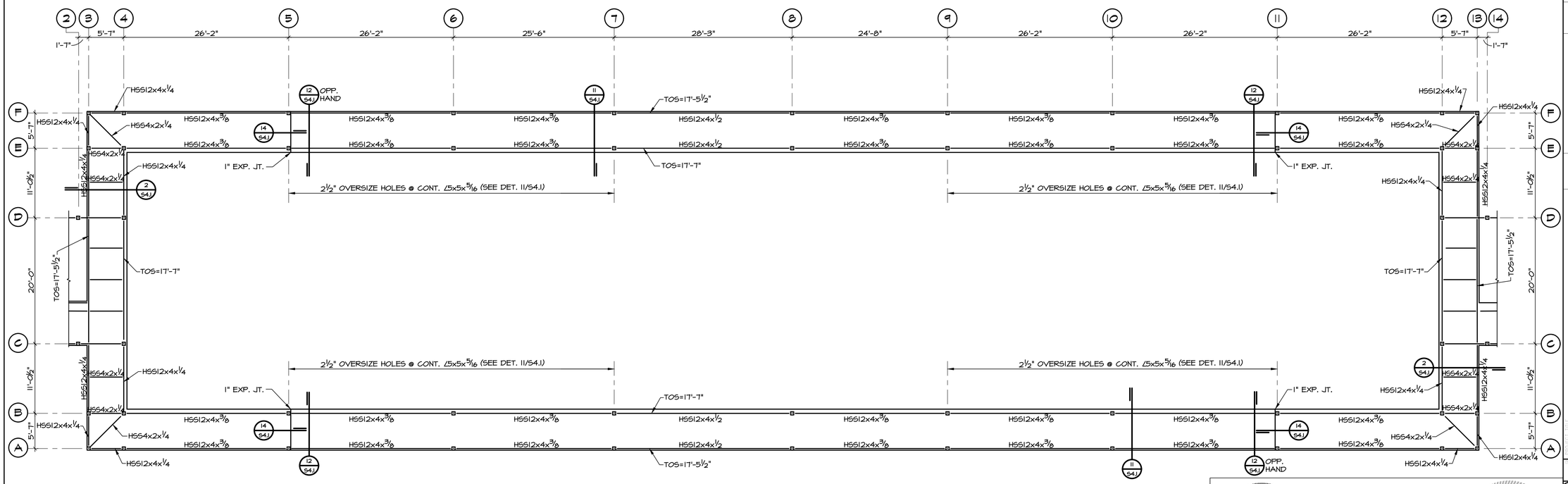
1/8"=1'-0"



NORTH

EAST STAIR 3RD FLOOR FRAMING PLAN

1/8"=1'-0"



TYPICAL FLOOR CONSTRUCTION
5" (4000 PSI) CONCRETE SLAB w/ 4x4-W2.9xW2.9 WWF ON 1.5VL22 G90 GALVANIZED COMPOSITE FLOOR DECK, ATTACHED TO THE STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS AT 12" ON CENTER AT ALL SUPPORTS.

EXIST. FIN. FLR. EL. = (18'-0") (FIELD VERIFY)

NORTH

3RD FLOOR FRAMING PLAN

1/8"=1'-0"

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

CLEMENTS & ASSOCIATES
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507 MAIN STREET
NORTH LITTLE ROCK, ARKANSAS 72114
PHONE: 501-375-3380
WWW.CLEMENTSARCHITECTS.COM

No.	Revision/Issue	Date	BY

PROJECT: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

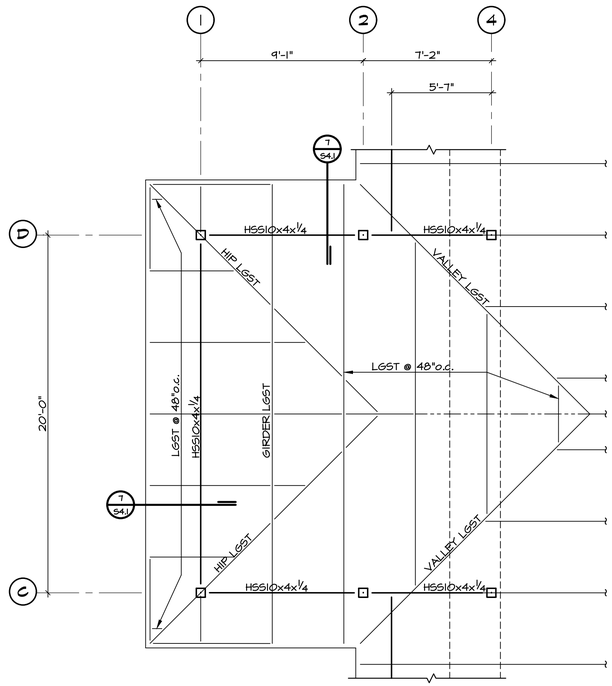
SHEET: 3RD FLOOR FRAMING

DESIGNED BY:
TECH REVIEWER:
DRAWN BY:
LEAD REVIEWER:
CHECKED BY:
PROJECT NUMBER: NKAK 21-1034
DATE: 28 FEB. 2024
SCALE: AS NOTED
SHEET: S3.2
24 OF 100

CERTIFICATE OF AUTHORIZATION
ENGINEERING CONSULTANTS, INC.
No. 26
ARKANSAS ENGINEER NO. 101

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Structural Engineers
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Little Rock, Arkansas 72201-3401
Phone No: (501) 376-3752
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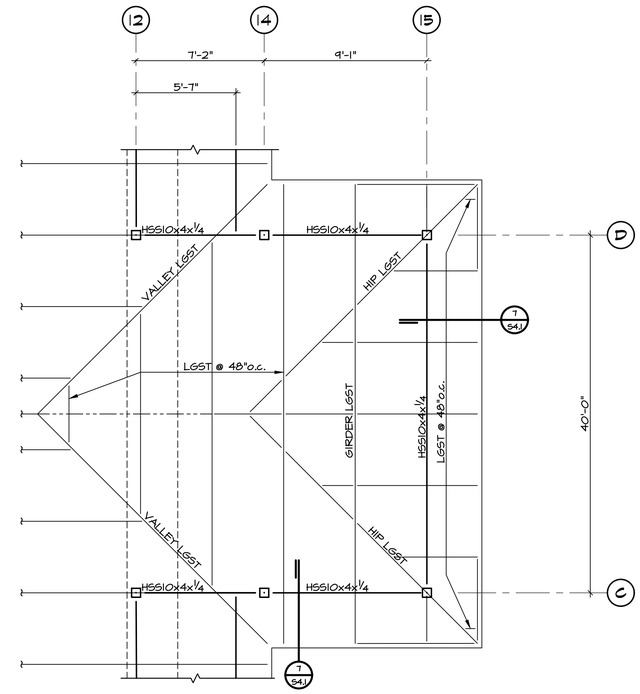
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 7263
JAMES R. BROWN
2-28-24



NORTH

WEST STAIR ROOF FRAMING PLAN

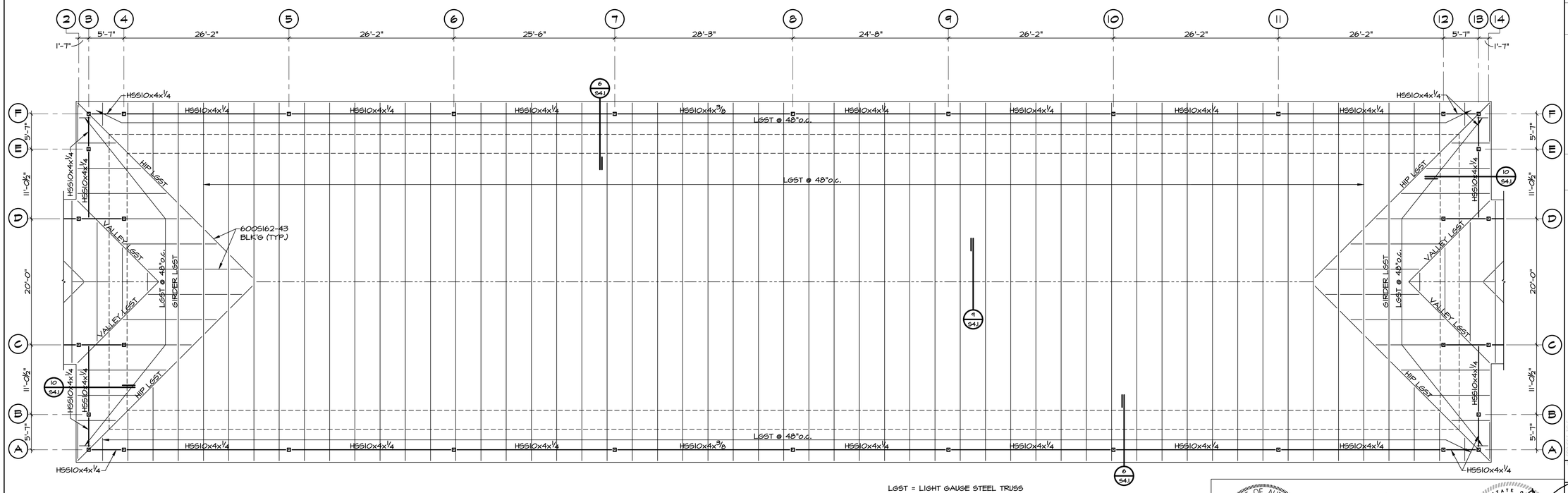
1/8"=1'-0"



NORTH

EAST STAIR ROOF FRAMING PLAN

1/8"=1'-0"



TYPICAL ROOF CONSTRUCTION
1.5B22 PAINTED ROOF DECK ATTACHED TO THE STRUCTURE WITH #10 TEK SCREWS IN A 36/4 PATTERN AND (4) #10 TEK SCREW SIDELAP FASTENERS BETWEEN SUPPORTS.

NORTH

ROOF FRAMING PLAN

1/8"=1'-0"

LGST = LIGHT GAUGE STEEL TRUSS

CERTIFICATE OF AUTHORIZATION — ENGINEERING CONSULTANTS, INC. No. 26 — ARKANSAS ENGINEER NO. [illegible]

Engineering Consultants, Inc.
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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 7263 — JAMES R. BROWN — 2-28-24

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

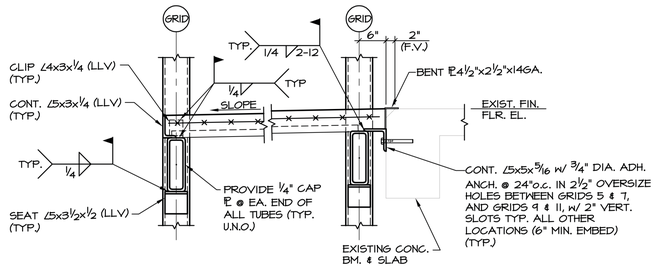
CLEMENTS & ASSOCIATES
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507 MAIN STREET
NORTH LITTLE ROCK, ARKANSAS 72114
PHONE: 501-375-3380
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No.	Revision/Issue	Date	BY	APP'D

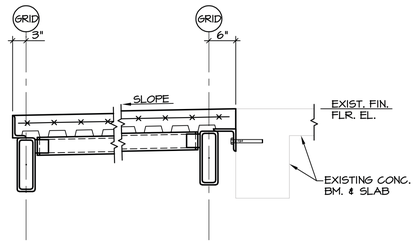
PROJECT: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET: ROOF FRAMING

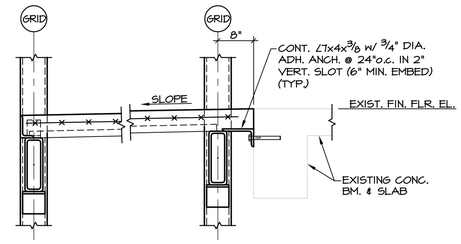
DESIGNED BY:
TECH REVIEWER:
PROJECT NUMBER: NKAK 21-1034
DRAWN BY:
CHECKED BY:
DATE: 29 FEB. 2024
SCALE: AS NOTED
SHEET: S3.3
25 OF 100



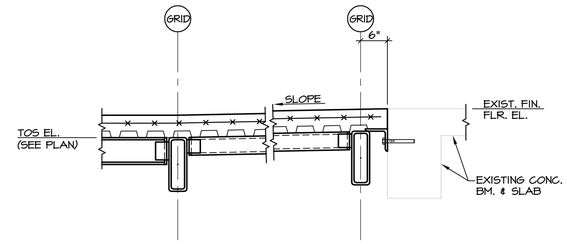
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3/4"=1'-0"



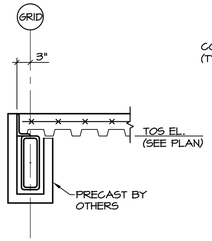
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3/4"=1'-0"



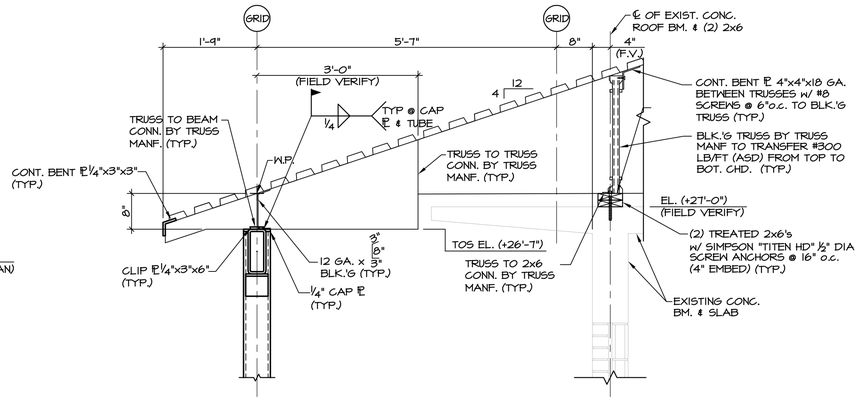
3 SECTION
3/4"=1'-0"



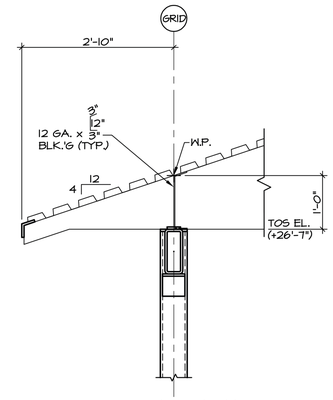
4 SECTION
3/4"=1'-0"



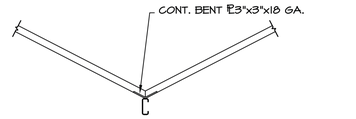
5 SECTION
3/4"=1'-0"



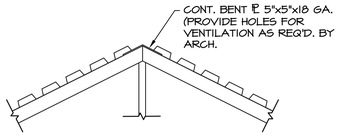
6 SECTION
3/4"=1'-0"



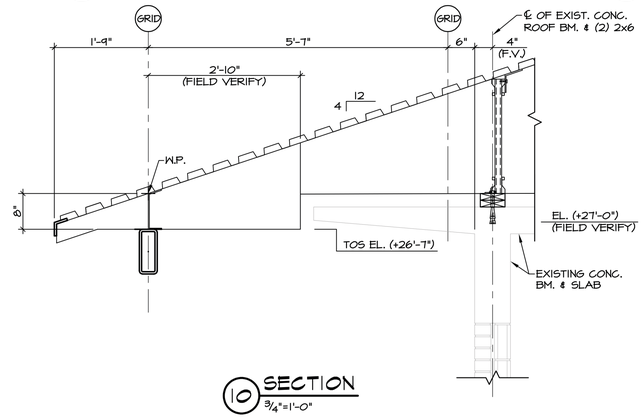
7 SECTION
3/4"=1'-0"



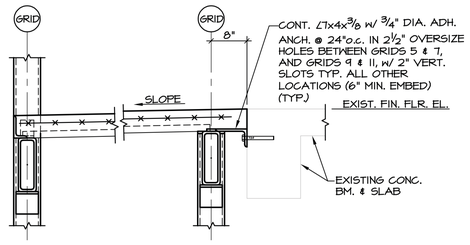
8 TYP. VALLEY DETAIL (HIP SIM.)
3/4"=1'-0"



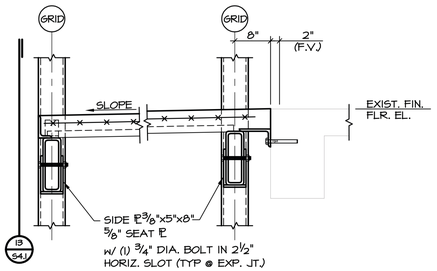
9 TYP. RIDGE DETAIL
3/4"=1'-0"



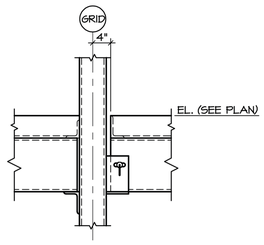
10 SECTION
3/4"=1'-0"



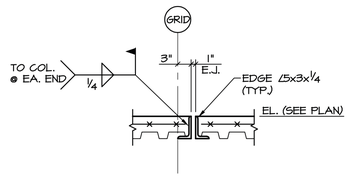
11 SECTION
3/4"=1'-0"



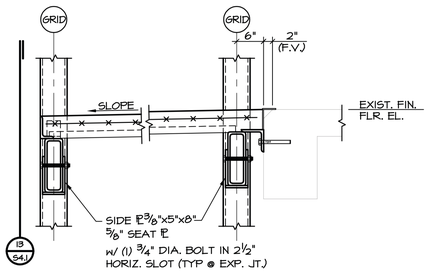
12 SECTION
3/4"=1'-0"



13 SECTION
3/4"=1'-0"



14 SECTION
3/4"=1'-0"



15 SECTION
3/4"=1'-0"

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WWW.CLEMENTSARCHITECTS.COM

Engineering Consultants, Inc.
Structural Engineers
401 West Capitol Avenue, Suite 305
Little Rock, Arkansas 72201-3401
Phone No: (501) 376-3752
Fax No: (501) 376-7314

CERTIFICATE OF AUTHORIZATION — ENGINEERING CONSULTANTS, INC. — No. 26 — ARKANSAS ENGINEER AND LAND SURVEYOR

STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — No. 7263 — JAMES R. BROWN — 2-28-24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: FRAMING DETAILS

DRAWN BY:
CHK'D BY / REVIEWER:
DESIGNED BY:
DATE: 29 FEB. 2024
SCALE: AS NOTED

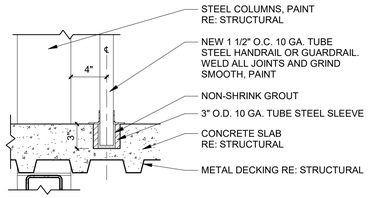
PROJECT NO.: NKAK 21-1034
SHEET: S4.1
26 OF 100

GENERAL CONSTRUCTION NOTES

1. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY OF THE EMPLOYEES INVOLVED WITH THE DEMOLITION, CONSTRUCTION, AND TO THE GENERAL PUBLIC THAT MAY VENTURE ONTO THE SITE. THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE OSHA REQUIREMENTS FOR WORKER PROTECTION.
2. BUILDING 854 CONTAINS HAZARDOUS MATERIALS. ALL ABATEMENT MUST BE COMPLETED PRIOR TO THE DEMOLITION OF THE STRUCTURE. REFER TO LRAFB PROVIDED ASBESTOS/LEAD PAINT INSPECTION REPORT FOR INFORMATION REGARDING CONTAMINATED ITEM.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LRAFB RECYCLE CENTER AND RECYCLE ALL RECYCLABLE MATERIALS AND MATERIALS OF VALUE INCLUDING COPPER, WIRE, & METAL. RECYCLING CENTER WILL PROVIDE CONTAINERS AND REQUIRE A 48 HOUR NOTICE PRIOR TO DELIVERY. (501)-987-6611
4. CEILING TILES, CARPET, VINYL WALL COVERING, VINYL CORNER GUARDS, AND OTHER INTERIOR ITEMS TYPICALLY RECYCLABLE BY LRAFB ARE CONSIDERED CONTAMINATED WITH ASBESTOS AND MAY NOT BE RECYCLED.
5. THE CONTRACTOR SHALL RECORD ANY SITE ITEMS THAT ARE DAMAGED PRIOR TO COMMENCING CONSTRUCTION. DAMAGE SHALL ALSO BE VERIFIED BY THE GOVERNMENT PRIOR TO COMMENCEMENT. ANY ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH ITEMS OF A EQUAL OR GREATER VALUE AT NO COST TO THE GOVERNMENT.
6. ALL DISTURBED SITE CONDITIONS SHALL BE REPAIRED TO AN AS FOUND OR BETTER CONDITION AT NO COST TO THE GOVERNMENT.
7. REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, PLUMBING, AND ELECTRICAL FOR ADDITIONAL DEMOLITION AND CONSTRUCTION REQUIREMENTS.

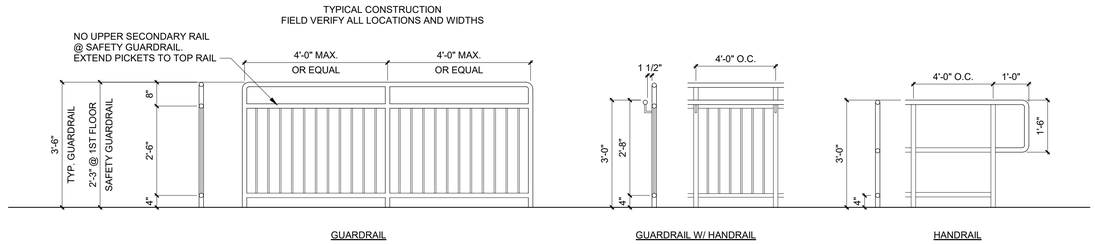
SITE SYMBOLS LEGEND

- EXISTING BUILDING
- CONCRETE WALK RE: CIVIL
- W — W — WATER
- E/G — E/G — ELECTRICAL UNDERGROUND
- FO — FO — FIBER OPTICS
- GAS — GAS — GAS
- SD — SD — STORM DRAINAGE
- MH — MANHOLE
- VALVE
- JB — JUNCTION BOX
- FIRE HYDRANT



3 GUARDRAIL/HANDRAIL POST DETAIL

1 1/2" = 1'-0"



CONSTRUCTION NOTES:

HANDRAIL CONSTRUCTION: 1 1/2" ⌀ GALVANIZED STEEL WITH 1 1/2" ⌀ VERTICAL SUPPORTS AT 4'-0" O.C. UNLESS OTHERWISE INDICATED IN THE DRAWINGS, PAINT

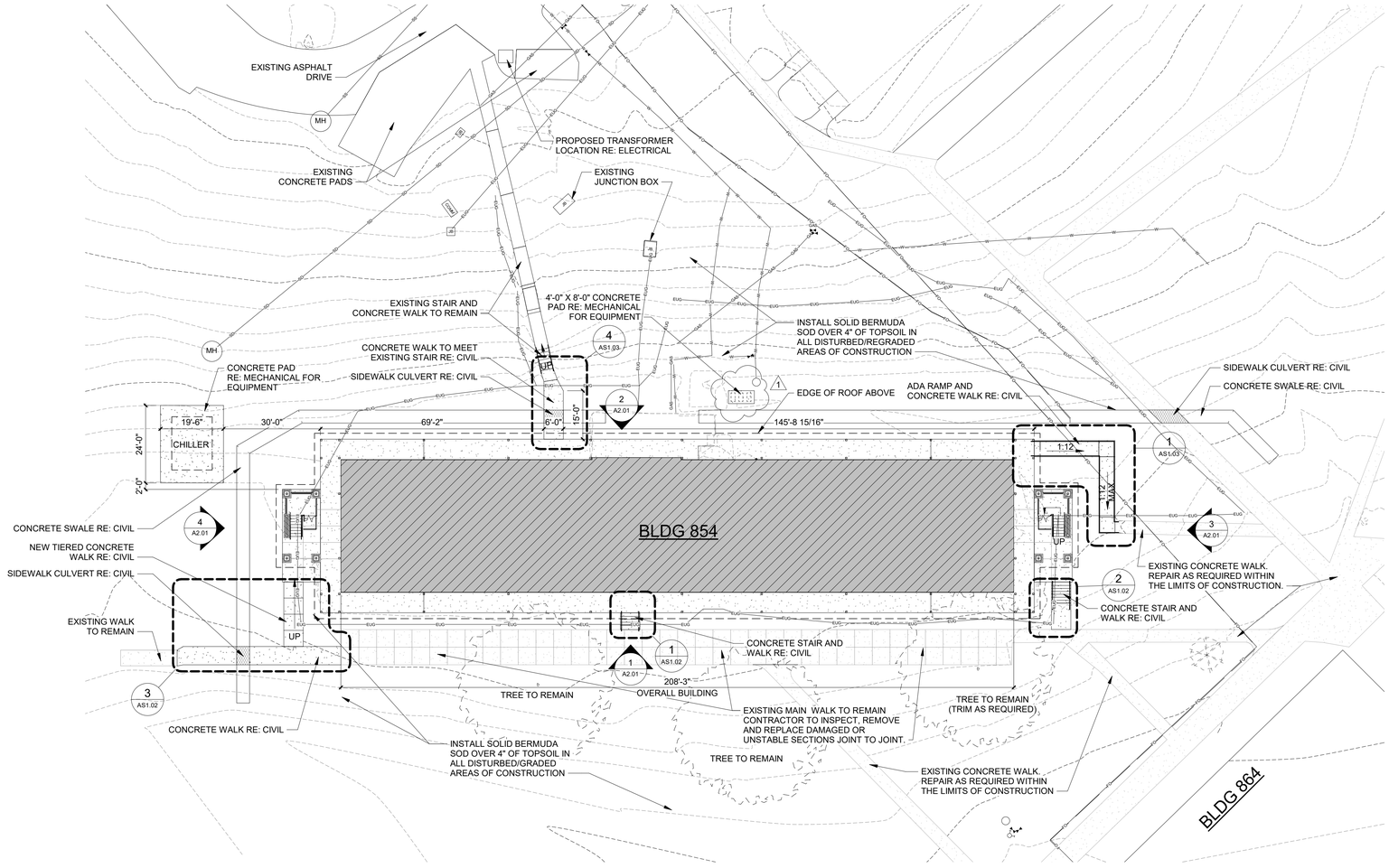
GUARDRAIL CONSTRUCTION: 1 1/2" ⌀ GALVANIZED STEEL WITH 1 1/2" ⌀ VERTICAL SUPPORTS AT 4'-0" O.C. UNLESS OTHERWISE INDICATED IN THE DRAWINGS. PICKET INFILLS ARE 1/2" ⌀ GALVANIZED STEEL AT 4" O.C. MAX., PAINT

GUARDRAIL W/ HANDRAIL: PROVIDE ADA COMPLIANT GALVANIZED STEEL HANDRAIL BRACKETS AND 1 1/2" ⌀ GALVANIZED STEEL HANDRAIL, PAINT

ALL RAILINGS TO BE WELDED, GROUND SMOOTH, AND PAINTED.

2 RAILING DETAILS

1/2" = 1'-0"



1 ARCHITECTURAL SITE PLAN

1" = 20'-0"

NORTH

0' 4" 8" 1'-4" SCALE: 1 1/2" = 1'-0"

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

0' 10' 20' 40' SCALE: 1" = 20'-0"

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B. ARKANSAS

HGL Construction

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PHONE: 501-375-3380
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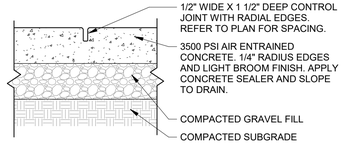
REGISTERED ARCHITECT — Clements & Associates, Inc. — No. 6937 — STATE OF ARKANSAS — 4/26/24

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

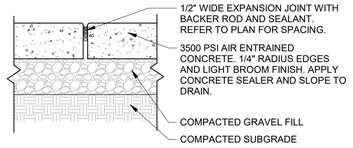
SHEET TITLE: ARCHITECTURAL SITE PLAN, NOTES, DETAILS AND SYMBOLS LEGEND

DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: AS1.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	27 OF 100



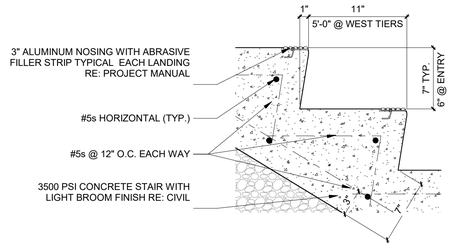
NOTE: JOINTS ON THE SECOND AND THIRD FLOOR WALKWAYS SHALL BE TROWELED, NOT MACHINE CUT. RE: PROJECT MANUAL REFER TO STRUCTURAL FOR ADDITIONAL CONTROL JOINTS

9 CONTROL JOINT (CJ)
1 1/2" = 1'-0"

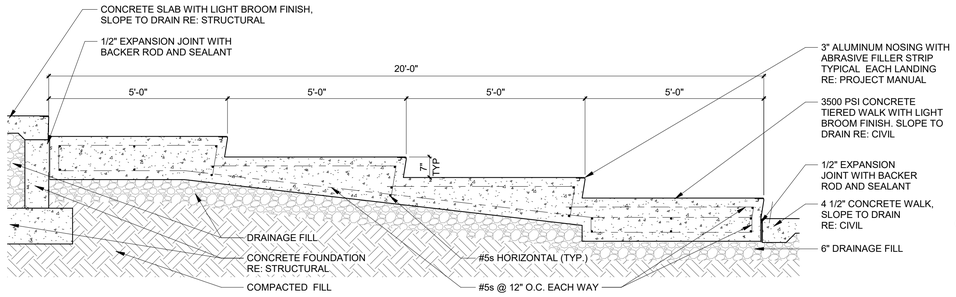


NOTE: DETAIL APPLIED TO STANDARD ARCHITECTURAL EXPANSION JOINTS. REFER TO STRUCTURAL FOR ADDITIONAL EXPANSION JOINTS & DETAILS.

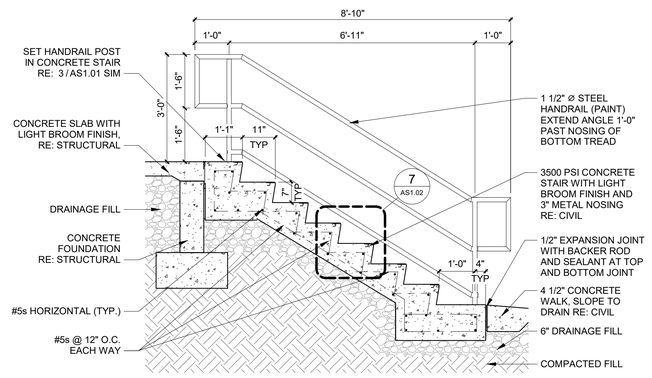
8 EXPANSION JOINT (EJ)
1 1/2" = 1'-0"



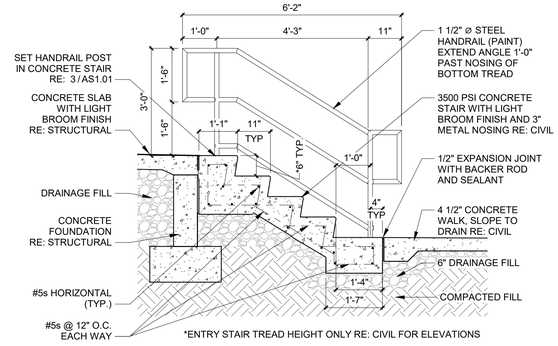
7 TYPICAL CONCRETE STAIR NOSING
1 1/2" = 1'-0"



6 TIERED WALK SECTION
1/2" = 1'-0"

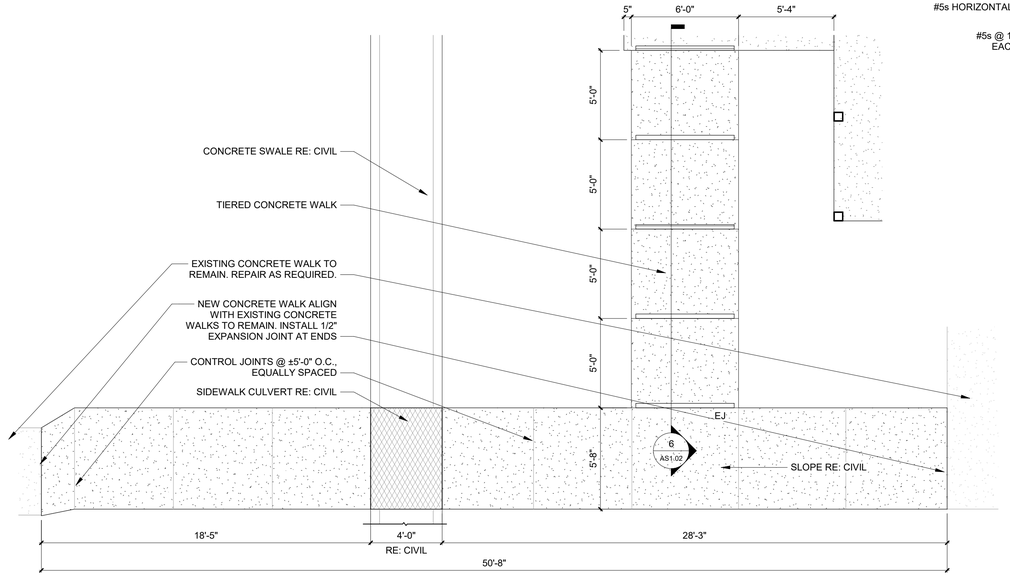


5 EAST STAIR SECTION
1/2" = 1'-0"



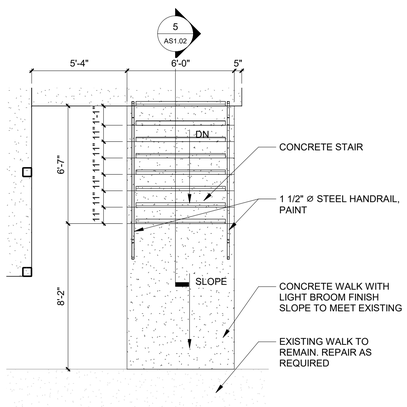
*ENTRY STAIR TREAD HEIGHT ONLY RE: CIVIL FOR ELEVATIONS

4 ENTRY STAIR SECTION
1/2" = 1'-0"



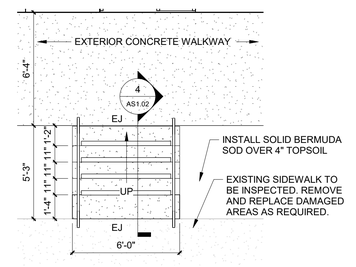
NORTH

3 TIERED WALK PLAN
1/4" = 1'-0"



NORTH

2 EAST STAIR PLAN
1/4" = 1'-0"



NORTH

1 ENTRY STAIR PLAN
1/4" = 1'-0"

0' 4" 8" 1'-4"
SCALE: 1 1/2" = 1'-0"

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

0' 2' 4' 8'
SCALE: 1/4" = 1'-0"

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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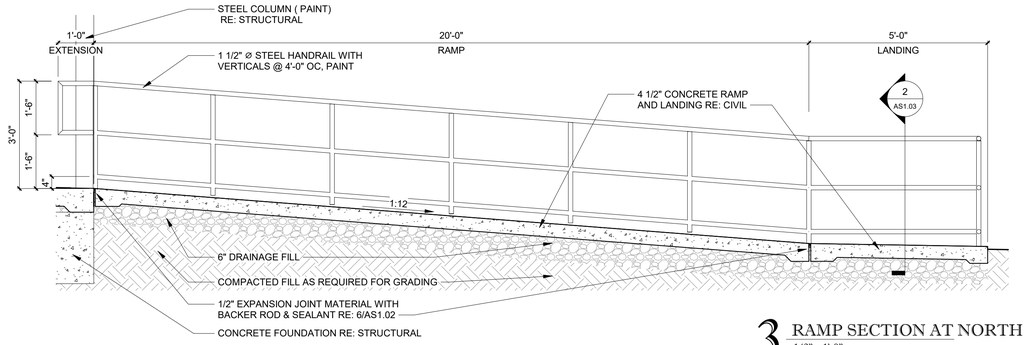
REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C167 — STATE OF ARKANSAS — 4/29/24

No.	Revision/Issue	Date	BY	APP'D

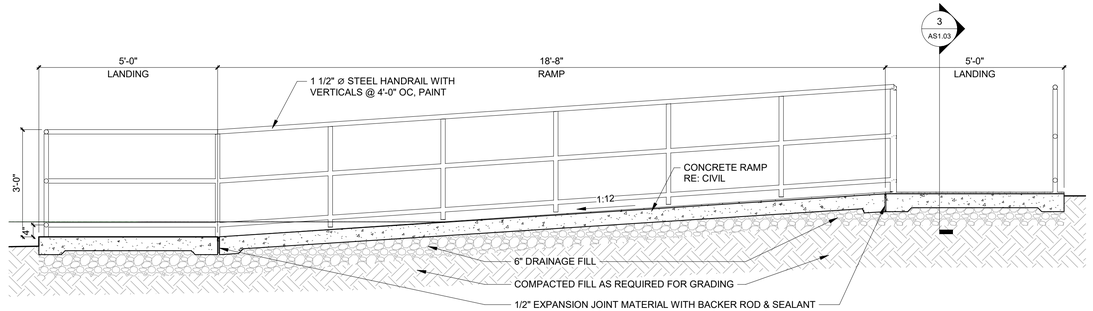
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
ENLARGED STAIR PLANS AND DETAILS

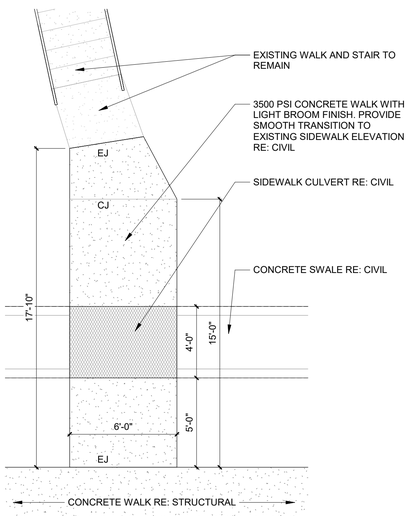
DRAWN BY	HRS, BD, DR
LEAD DESIGNER	C&A
TECH REVIEWER	HRS
PROJECT NUMBER	NKAK 21-1034
DESIGNED BY	C&A
SHEET	AS1.02
DATE	29 FEB. 2024
SCALE	AS NOTED



3 RAMP SECTION AT NORTH
1/2" = 1'-0"

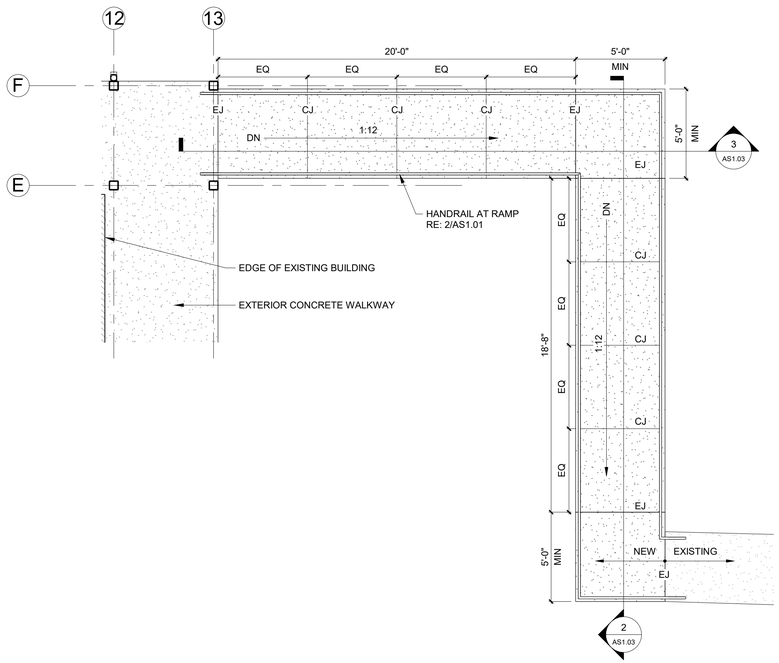


2 RAMP SECTION AT EAST
1/2" = 1'-0"



4 NORTH SIDEWALK PLAN
1/4" = 1'-0"

NORTH



1 EAST RAMP PLAN
1/4" = 1'-0"

NORTH

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

0' 2' 4' 8' SCALE: 1/4" = 1'-0"

AIR MOBILITY COMMAND

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ARKANSAS

HGL Construction

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WWW.CLEMENTSARCHITECTS.COM

REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C167
STATE OF ARKANSAS
3/29/24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
ENLARGED PLAN AT RAMP AND SECTIONS

DRAWN BY	HS, BD, DR
LEAD DESIGNER	C&A
TECH REVIEWER	HRS
PROJECT NUMBER	NKAK 21-1034
DESIGNED BY	C&A
SHEET	AS1.03
DATE	29 FEB. 2024
SCALE	AS NOTED

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL ABATE ALL HAZARDOUS MATERIALS PRIOR TO DEMOLITION.
2. REMOVE AND DISPOSE OF ALL EXISTING FURNITURE AND MISCELLANEOUS LOOSE ITEMS THROUGHOUT THE BUILDING.
3. DEMOLISHED MATERIALS ARE TO BE REMOVED FROM THE BUILDING AND SITE IMMEDIATELY UPON REMOVAL FROM THE AREA OF WORK AND ARE TO BE DISPOSED OF IN A PROPER LANDFILL UNLESS OTHERWISE NOTED.
4. REMOVE ALL EXISTING FIRE EXTINGUISHERS AND TURN OVER TO LRAFB FIRE DEPARTMENT.
5. REMOVE AND DISPOSE OF EXISTING FIRE PROTECTION DEVICES AND SPRINKLER SYSTEMS. RE: FIRE PROTECTION
6. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES, TOILET ACCESSORIES, ASSOCIATED MILLWORK, AND PIPING. RE: PLUMBING
7. REMOVE AND DISPOSE OF REMAINING MECHANICAL ASSOCIATED ITEMS.
8. REMOVE AND DISPOSE OF ALL ELECTRICAL FIXTURES. RE: ELECTRICAL
9. REFER TO CIVIL FOR ADDITIONAL SITE DEMOLITION REQUIREMENTS.
10. REMOVE AND DISPOSE OF ALL EXISTING SUSPENDED CEILING SYSTEMS AND GYPSUM CEILINGS. WHERE TEXTURED CEILINGS REMOVED BY ABATEMENT, CLEAN AND PREPARE FOR NEW TEXTURE.

KEYED DEMOLITION NOTES

1. REMOVE AND DISPOSE OF EXISTING EXTERIOR WINDOWS AND LOUVERS IN MASONRY WALLS. REMOVE AND SALVAGE PRECAST WINDOW SILLS FOR REINSTALLATION.
2. REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, AND HARDWARE.
3. REMOVE AND DISPOSE OF EXISTING INTERIOR WALLS, DOORS, FRAMES, AND HARDWARE. NOTE: WALLS ARE A COMBINATION OF STUD WALL AND CLAY TILE CONSTRUCTION AT PLUMBING CHASES.
4. REMOVE AND DISPOSE OF INTERIOR FURRING STUDS AND GYPSUM WALL BOARD. (EXISTING STRUCTURE TO REMAIN.)
5. REMOVE AND DISPOSE OF EXISTING MASONRY PIPE CHASE. SAW CUT FLOOR SLAB TO PROVIDE A CLEAN EDGE FOR CONCRETE INFILL. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SAFETY PRECAUTIONS AT THESE MULTI-STORY CHASES. RE: STRUCTURAL
6. SAW CUT WALL AND REMOVE PORTION OF MASONRY WALL FOR NEW DOOR AS SCHEDULED. TYPICAL ENTIRE BUILDING. (REFER TO A6.01)
7. REMOVE AND DISPOSE OF EXISTING FLOORING DOWN TO CONCRETE SLAB. RE: MECHANICAL AND PLUMBING
8. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES, TOILET ACCESSORIES, ASSOCIATED MILLWORK, AND PIPING. RE: PLUMBING
9. REMOVE AND DISPOSE OF EXISTING DOOR AND HARDWARE. FRAME TO REMAIN.

DEMOLITION SYMBOLS LEGEND

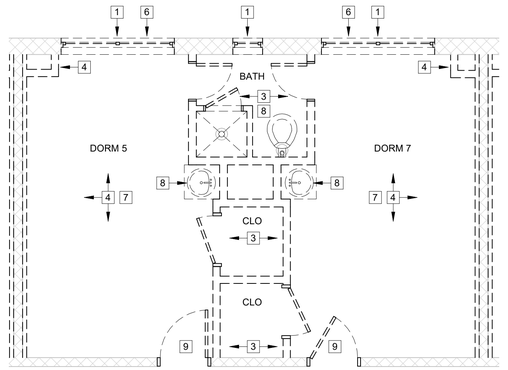
DORM 7 — ROOM NAME

ITEM TO BE DEMOLISHED

EXISTING WALLS TO REMAIN

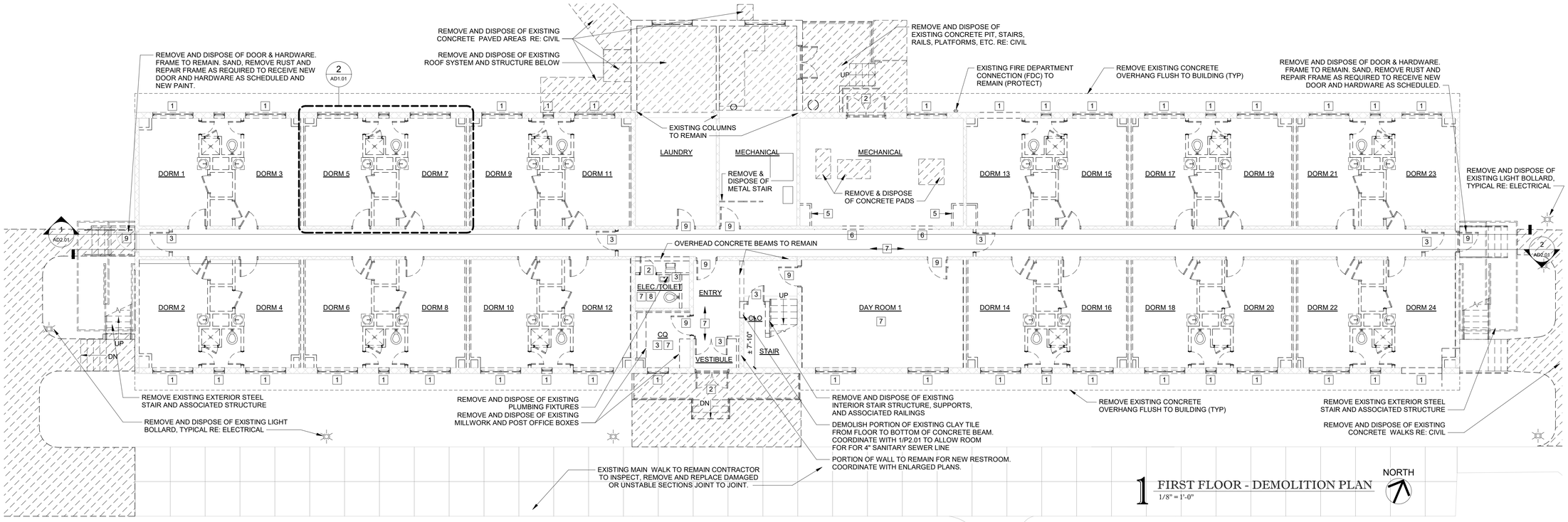
/ ## /SIM — ENLARGED DETAIL, DETAIL NUMBER, SHEET NUMBER

— KEYED DEMOLITION NOTE



2 ENLARGED DORM ROOM - TYPICAL DEMOLITION PLAN
1/4" = 1'-0"

NORTH



1 FIRST FLOOR - DEMOLITION PLAN
1/8" = 1'-0"

NORTH

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

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

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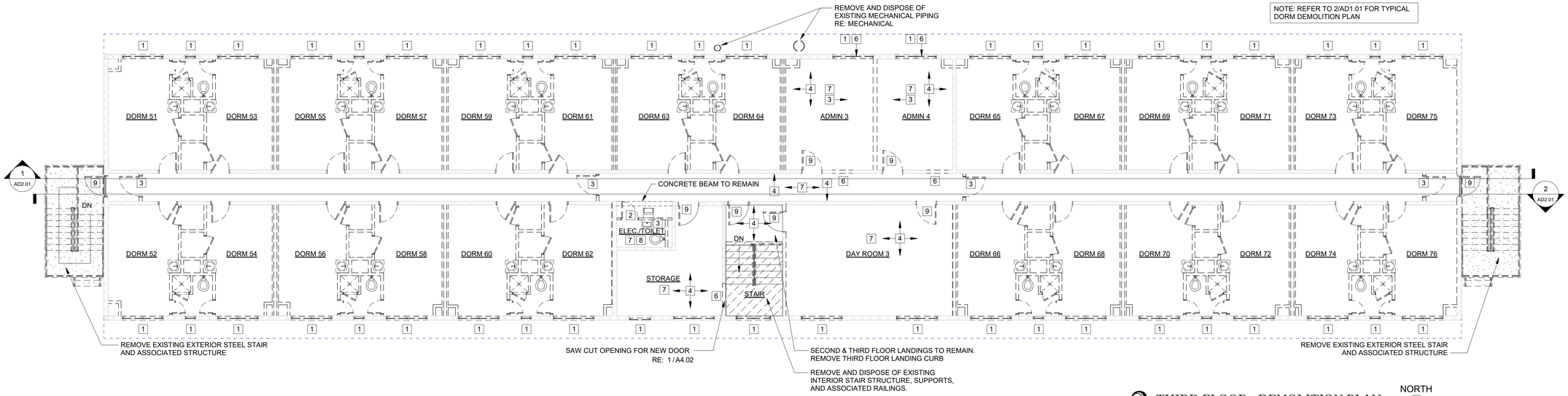
REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C167 — STATE OF ARKANSAS — 3/29/24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FIRST FLOOR DEMOLITION PLAN, NOTES, AND SYMBOLS LEGEND

DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: AD1.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	30 OF 100



2 THIRD FLOOR - DEMOLITION PLAN
1/8" = 1'-0"

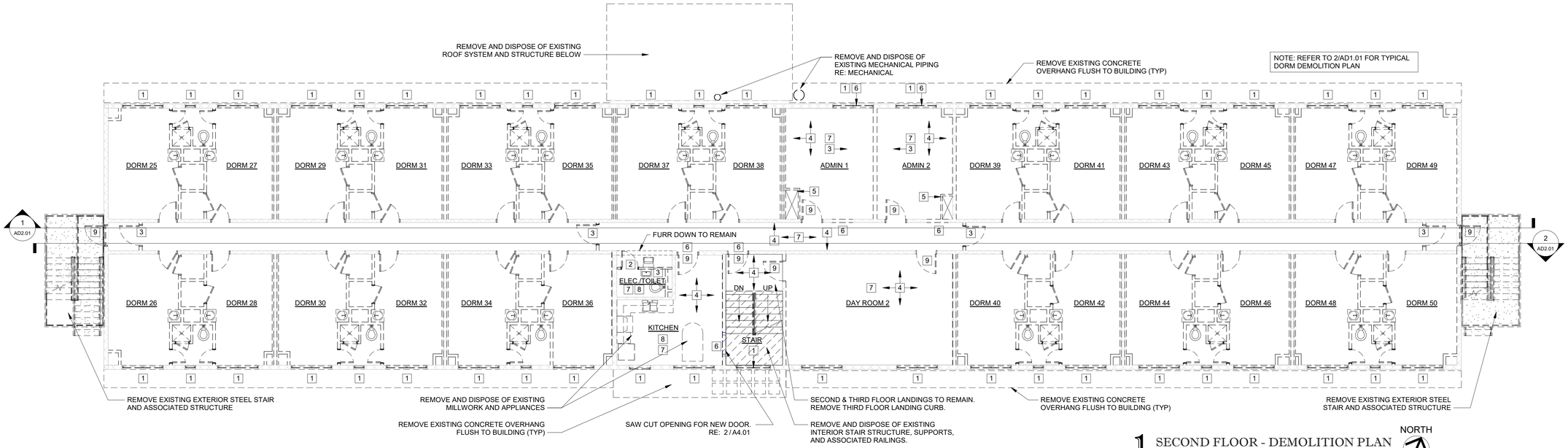
NORTH

KEYED DEMOLITION NOTES

1. REMOVE AND DISPOSE OF EXISTING EXTERIOR WINDOWS AND LOUVERS IN MASONRY WALLS. REMOVE AND SALVAGE PRECAST WINDOW SILLS FOR REINSTALLATION.
2. REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, AND HARDWARE.
3. REMOVE AND DISPOSE OF EXISTING INTERIOR WALLS, DOORS, FRAMES, AND HARDWARE. NOTE: WALLS ARE A COMBINATION OF STUD WALL AND CLAY TILE CONSTRUCTION AT PLUMBING CHASES.
4. REMOVE AND DISPOSE OF INTERIOR FURRING STUDS AND GYPSUM WALL BOARD. (EXISTING STRUCTURE TO REMAIN.)
5. REMOVE AND DISPOSE OF EXISTING MASONRY PIPE CHASE. SAW CUT FLOOR SLAB TO PROVIDE A CLEAN EDGE FOR CONCRETE INFILL. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SAFETY PRECAUTIONS AT THESE MULTI-STORY CHASES. RE: STRUCTURAL
6. SAW CUT WALL AND REMOVE PORTION OF MASONRY WALL FOR NEW DOOR AS SCHEDULED. TYPICAL ENTIRE BUILDING. (REFER TO A6.01)
7. REMOVE AND DISPOSE OF EXISTING FLOORING DOWN TO CONCRETE SLAB. RE: MECHANICAL AND PLUMBING
8. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES, TOILET ACCESSORIES, ASSOCIATED MILLWORK, AND PIPING. RE: PLUMBING
9. REMOVE AND DISPOSE OF EXISTING DOOR AND HARDWARE. FRAME TO REMAIN.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL ABATE ALL HAZARDOUS MATERIALS PRIOR TO DEMOLITION.
2. REMOVE AND DISPOSE OF ALL EXISTING FURNITURE AND MISCELLANEOUS LOOSE ITEMS THROUGHOUT THE BUILDING.
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4. REMOVE ALL EXISTING FIRE EXTINGUISHERS AND TURN OVER TO LRAFB FIRE DEPARTMENT.
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6. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES, TOILET ACCESSORIES, ASSOCIATED MILLWORK, AND PIPING. RE: PLUMBING
7. REMOVE AND DISPOSE OF REMAINING MECHANICAL ASSOCIATED ITEMS.
8. REMOVE AND DISPOSE OF ALL ELECTRICAL FIXTURES. RE: ELECTRICAL
9. REFER TO CIVIL FOR ADDITIONAL SITE DEMOLITION REQUIREMENTS.
10. REMOVE AND DISPOSE OF ALL EXISTING SUSPENDED CEILING SYSTEMS AND GYPSUM CEILINGS. WHERE TEXTURED CEILINGS REMOVED BY ABATEMENT, CLEAN AND PREPARE FOR NEW TEXTURE.



1 SECOND FLOOR - DEMOLITION PLAN
1/8" = 1'-0"

NORTH

0' 4' 8' 16'

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

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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ARCHITECTURE, INC.
507 MAIN STREET
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REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C167 — STATE OF ARKANSAS — 3/29/24

No.	Revision/Issue	Date	BY	APPD

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
SECOND AND THIRD FLOOR DEMOLITION PLANS, AND NOTES

DRAWN BY	HRS, BD, DR
LEAD DESIGNER	C&A
TECH REVIEWER	HRS
PROJECT NUMBER	NKAK 21-1034
DESIGNED BY	C&A
SHEET	AD1.02
DATE	29 FEB. 2024
SCALE	AS NOTED

KEYED DEMOLITION NOTES

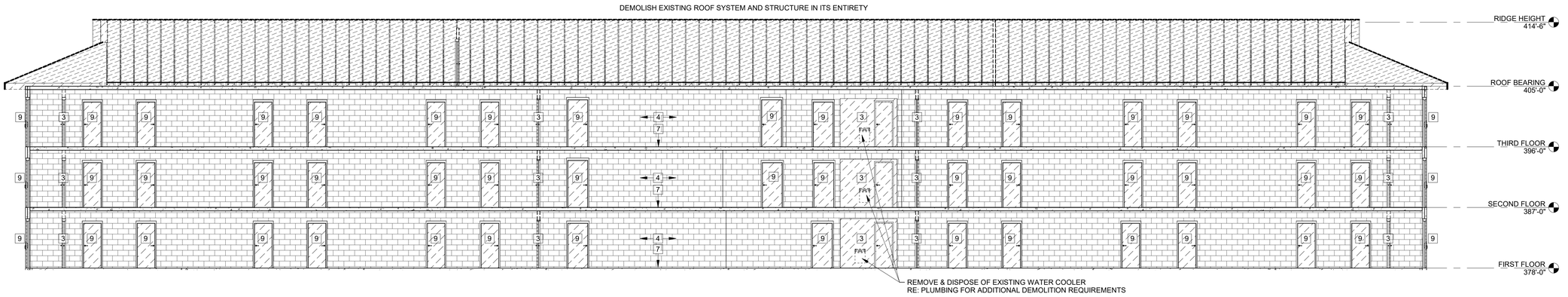
1. REMOVE AND DISPOSE OF EXISTING EXTERIOR WINDOWS AND LOUVERS IN MASONRY WALLS. REMOVE AND SALVAGE PRECAST WINDOW SILLS FOR REINSTALLATION.
2. REMOVE AND DISPOSE OF EXISTING DOOR, FRAME, AND HARDWARE.
3. REMOVE AND DISPOSE OF EXISTING INTERIOR WALLS, DOORS, FRAMES, AND HARDWARE. NOTE: WALLS ARE A COMBINATION OF STUD WALL AND CLAY TILE CONSTRUCTION AT PLUMBING CHASES.
4. REMOVE AND DISPOSE OF INTERIOR FURRING STUDS AND GYPSUM WALL BOARD. (EXISTING STRUCTURE TO REMAIN.)
5. REMOVE AND DISPOSE OF EXISTING MASONRY PIPE CHASE. SAW CUT FLOOR SLAB TO PROVIDE A CLEAN EDGE FOR CONCRETE INFILL. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SAFETY PRECAUTIONS AT THESE MULTI-STORY CHASES. RE: STRUCTURAL
6. SAW CUT WALL AND REMOVE PORTION OF MASONRY WALL FOR NEW DOOR AS SCHEDULED. TYPICAL ENTIRE BUILDING. (REFER TO A6.01)
7. REMOVE AND DISPOSE OF EXISTING FLOORING DOWN TO CONCRETE SLAB. RE: MECHANICAL AND PLUMBING
8. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES, TOILET ACCESSORIES, ASSOCIATED MILLWORK, AND PIPING. RE: PLUMBING
9. REMOVE AND DISPOSE OF EXISTING DOOR AND HARDWARE. FRAME TO REMAIN.

GENERAL DEMOLITION NOTES

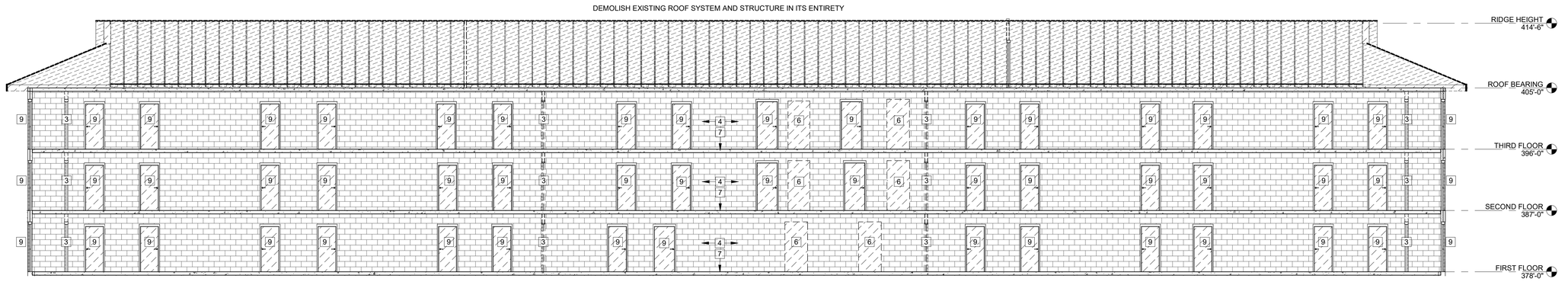
1. THE CONTRACTOR SHALL ABATE ALL HAZARDOUS MATERIALS PRIOR TO DEMOLITION.
2. REMOVE AND DISPOSE OF ALL EXISTING FURNITURE AND MISCELLANEOUS LOOSE ITEMS THROUGHOUT THE BUILDING.
3. DEMOLISHED MATERIALS ARE TO BE REMOVED FROM THE BUILDING AND SITE IMMEDIATELY UPON REMOVAL FROM THE AREA OF WORK AND ARE TO BE DISPOSED OF IN A PROPER LANDFILL UNLESS OTHERWISE NOTED.
4. REMOVE ALL EXISTING FIRE EXTINGUISHERS AND TURN OVER TO LRAFB FIRE DEPARTMENT.
5. REMOVE AND DISPOSE OF EXISTING FIRE PROTECTION DEVICES AND SPRINKLER SYSTEMS. RE: FIRE PROTECTION
6. REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES, TOILET ACCESSORIES, ASSOCIATED MILLWORK, AND PIPING. RE: PLUMBING
7. REMOVE AND DISPOSE OF REMAINING MECHANICAL ASSOCIATED ITEMS.
8. REMOVE AND DISPOSE OF ALL ELECTRICAL FIXTURES. RE: ELECTRICAL
9. REFER TO CIVIL FOR ADDITIONAL SITE DEMOLITION REQUIREMENTS.
10. REMOVE AND DISPOSE OF ALL EXISTING SUSPENDED CEILING SYSTEMS AND GYPSUM CEILINGS. WHERE TEXTURED CEILINGS REMOVED BY ABATEMENT, CLEAN AND PREPARE FOR NEW TEXTURE.

LOAD BEARING WALL NOTES

1. EXISTING BUILDING SECTIONS ARE SHOWN FOR REFERENCE OF EXISTING DOOR OPENINGS AND LOCATION OF NEW DOOR OPENINGS. REFER TO A6.01 AND A6.02 FOR LOCATION OF NEW DOORS.
2. REFER TO FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL FOR ADDITIONAL ELEMENTS THAT MAY PENETRATE EXISTING WALLS.
3. REFER TO STRUCTURAL STRENGTHENING DRAWINGS FOR REQUIREMENTS OF LOAD BEARING WALL REINFORCEMENT.



2 EXISTING BUILDING SECTION FACING SOUTH
1/8" = 1'-0"



1 EXISTING BUILDING SECTION FACING NORTH
1/8" = 1'-0"

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
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REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C167 — STATE OF ARKANSAS — 2/29/24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
EXISTING BUILDING SECTIONS

DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: AD2.01
DATE: 29 FEB. 2024	32 OF 100
SCALE: AS NOTED	

SYMBOLS LEGEND

MECHANICAL 101 — ROOM NAME / ROOM NUMBER

B — WALL TYPE RE: A3.03

232-B — DOOR SYMBOL AND NUMBER RE: DOOR SCHEDULE

— WINDOW TYPE RE: WINDOW SCHEDULE

1 / A1.01 — SECTION MARK DETAIL NUMBER SHEET NUMBER

/ SLOPE — SLOPE MEASUREMENT AND DIRECTION

FD — FLOOR DRAIN RE: PLUMBING

T — THRESHOLD RE: PROJECT MANUAL

— TOILET ACCESSORY TAG RE: TOILET ACCESSORY SCHEDULE

1 / A1.01 — EXTERIOR ELEVATION DETAIL NUMBER SHEET NUMBER

1 / A101 — INTERIOR ELEVATION DETAIL NUMBER SHEET NUMBER

/ ## SIM — ENLARGED DETAIL DETAIL NUMBER SHEET NUMBER

FLOOR INFILL RE: STRUCTURAL

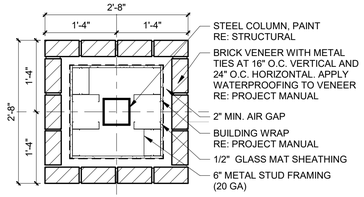
EXISTING WALL TO REMAIN

NEW WALL OR INFILL

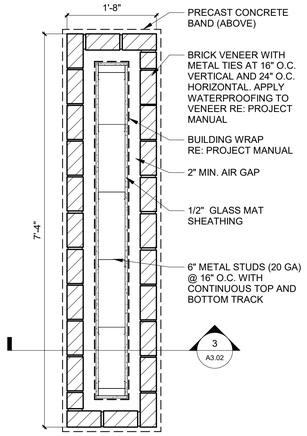
DS — DOWNSPOUT

FIRE RATED PARTITION RE: WALL TYPES & LIFE SAFETY. CONSTRUCT AS 1-HR FR UL DESIGN U419

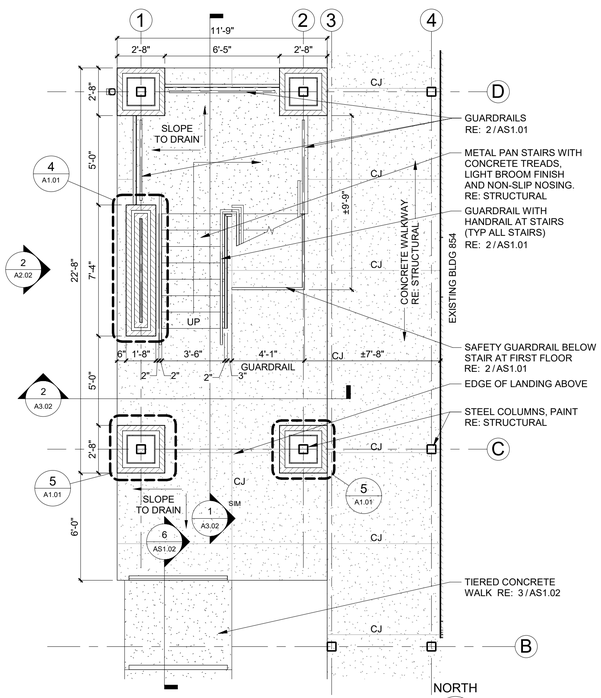
NOTE: UL DESIGN IS TO ENSURE ALL WALLS MEET THE RATINGS REQUIRED BY LIFE SAFETY CODE. DOOR RATINGS ARE TO MEET LIFE SAFETY FIRE RATINGS NOTED ON LS1.01 & LS1.02



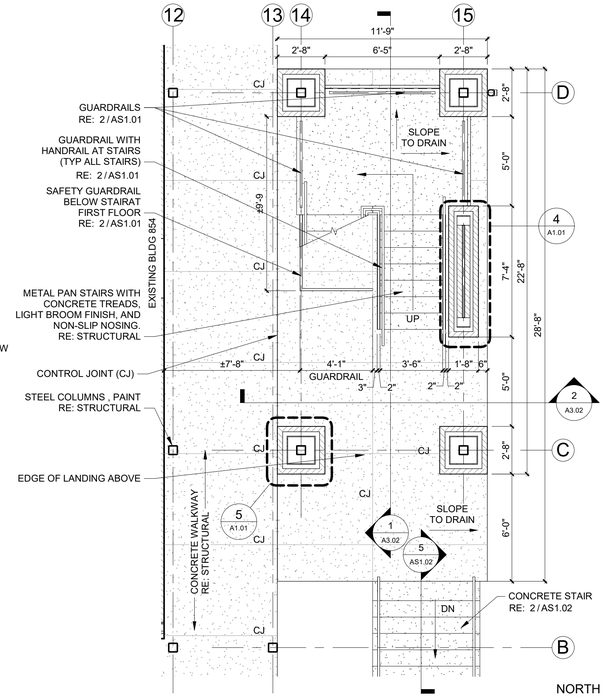
5 COLUMN DETAIL ENLARGED PLAN
3/4" = 1'-0"



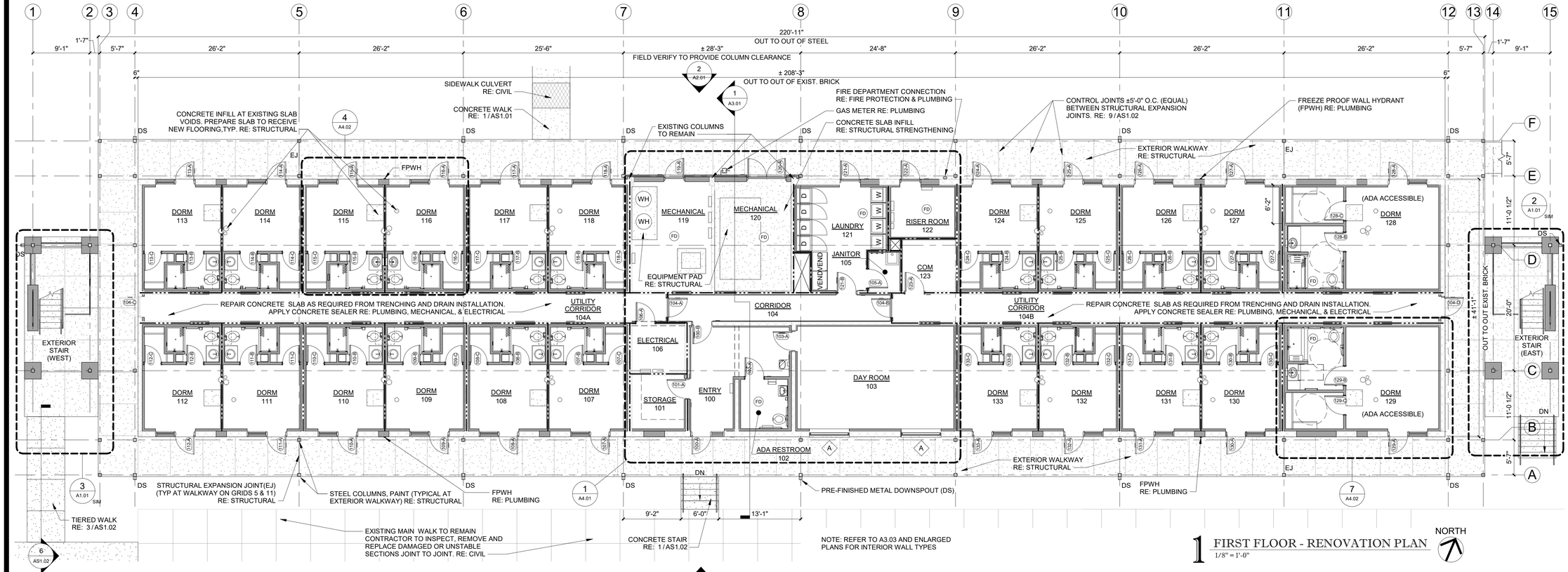
4 STAIR TOWER DETAIL
3/4" = 1'-0"



3 ENLARGED EXTERIOR STAIR - WEST
1/4" = 1'-0"



2 ENLARGED EXTERIOR STAIR - EAST
1/4" = 1'-0"



1 FIRST FLOOR - RENOVATION PLAN
1/8" = 1'-0"

NORTH

SCALE: 3/4" = 1'-0" | SCALE: 1/4" = 1'-0" | SCALE: 1/8" = 1'-0"

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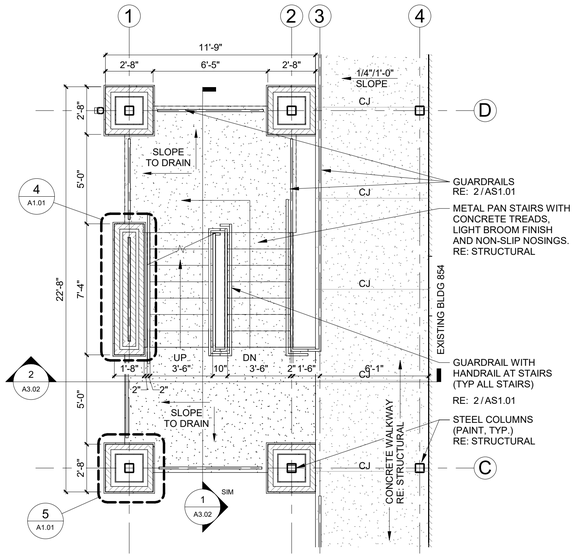
REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C167 — STATE OF ARKANSAS — 4/26/24

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

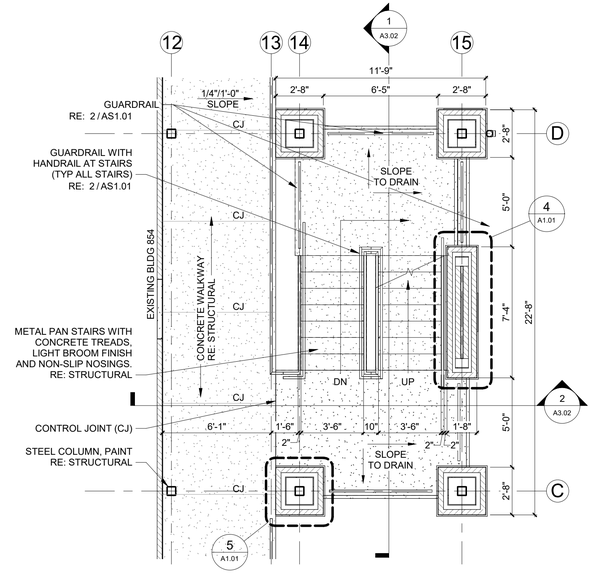
SHEET TITLE: FIRST FLOOR RENOVATION PLAN, ENLARGED STAIR PLANS, AND SYMBOLS LEGEND

DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: A1.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	33 OF 100



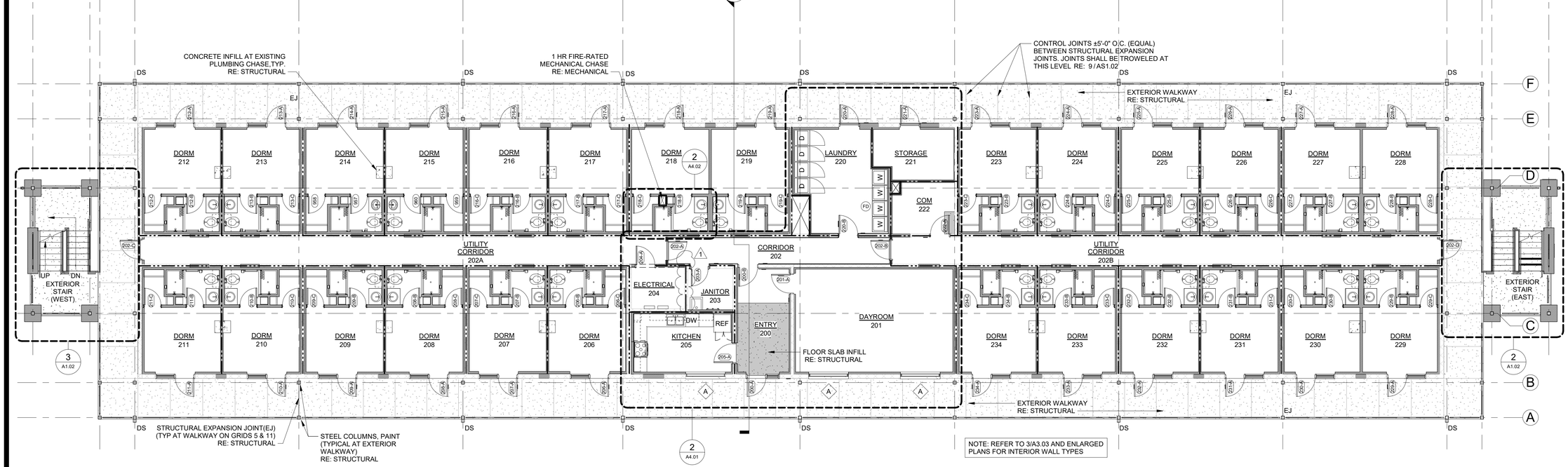
3 ENLARGED EXTERIOR STAIR - WEST
1/4" = 1'-0"

NORTH



2 ENLARGED EXTERIOR STAIR - EAST
1/4" = 1'-0"

NORTH



1 SECOND FLOOR - RENOVATION PLAN
1/8" = 1'-0"

NORTH

0' 2' 4' 8'
SCALE: 1/4" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

AIR MOBILITY COMMAND

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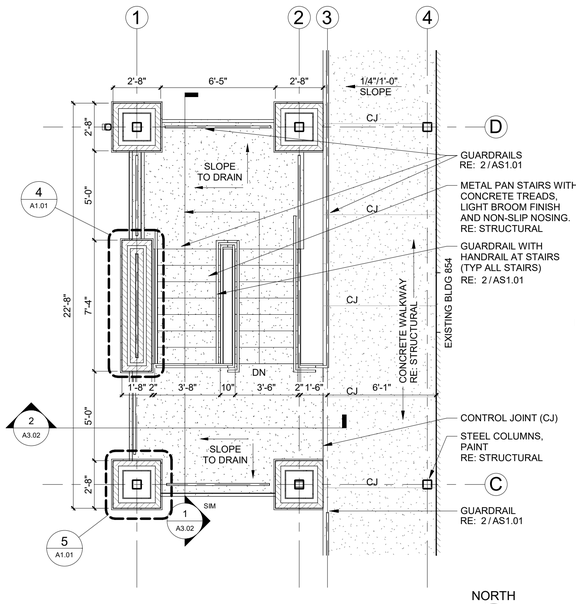
REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C187
STATE OF ARKANSAS
4/26/24

No.	Revision/Issue	Date	BY	APPD
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

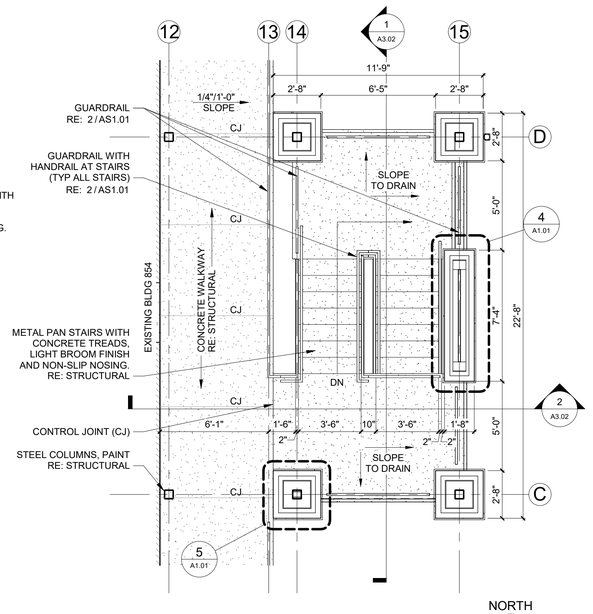
SHEET TITLE
SECOND FLOOR RENOVATION PLAN AND ENLARGED STAIR PLANS

DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: A1.02
DATE: 29 FEB. 2024	34 OF 100
SCALE: AS NOTED	



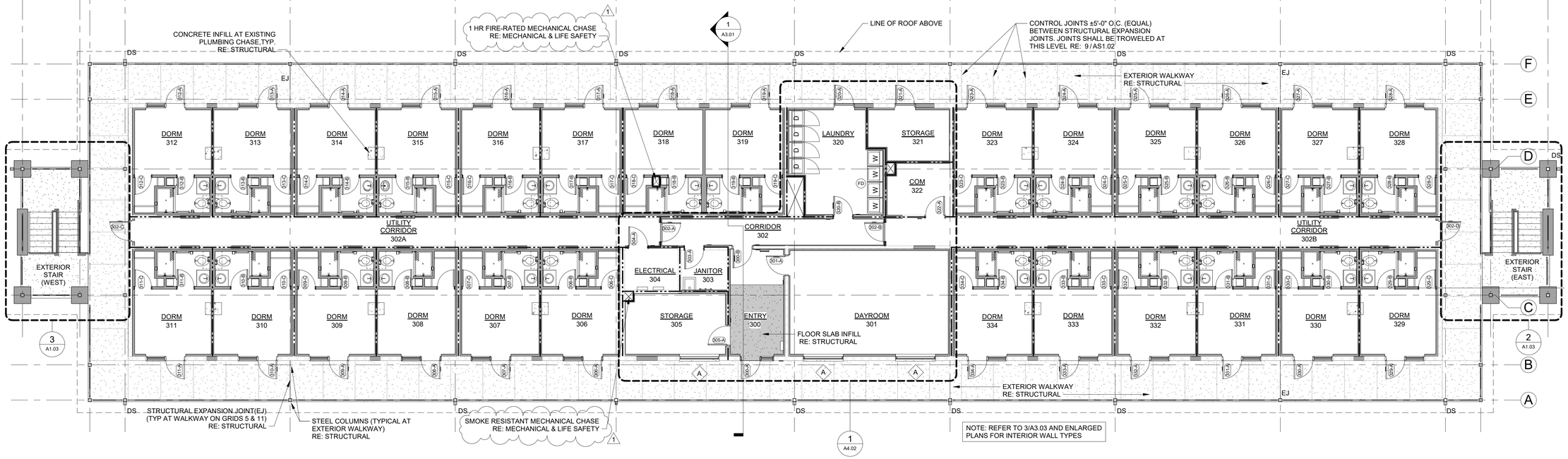
3 ENLARGED EXTERIOR STAIR - WEST
1/4" = 1'-0"

NORTH



2 ENLARGED EXTERIOR STAIR - EAST
1/4" = 1'-0"

NORTH



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

NORTH

0' 2' 4' 8'
SCALE: 1/4" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

AIR MOBILITY COMMAND

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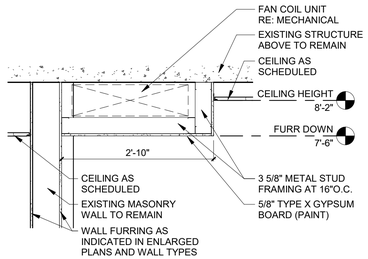
REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C167
STATE OF ARKANSAS
4/29/24

No.	Revision/Issue	Date	BY	APPD
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
THIRD FLOOR RENOVATION PLANS AND ENLARGED STAIR PLANS

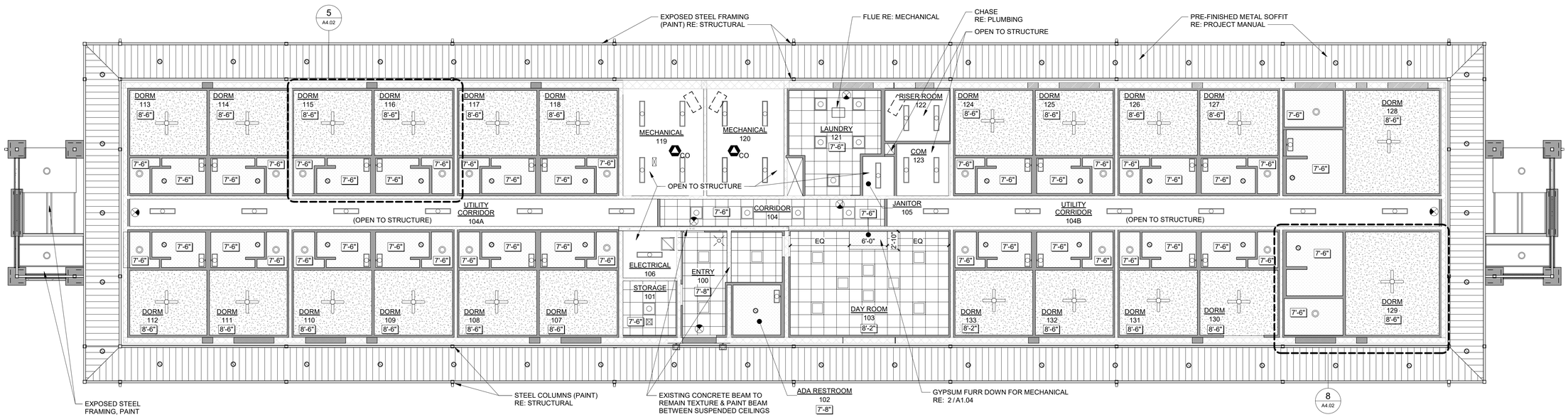
DRAWN BY	HRS, BD, DR
LEAD DESIGNER	C&A
TECH REVIEWER	HRS
PROJECT NUMBER	NKAK 21-1034
DESIGNED BY	C&A
SHEET	A1.03
DATE	29 FEB. 2024
SCALE	AS NOTED



2 FURR DOWN @ DAY ROOM 103
3/4" = 1'-0"

RCP SYMBOLS LEGEND

ROOM #	ROOM NAME ROOM NUMBER
	ACOUSTICAL SUSPENDED CEILING SYSTEM RE: PROJECT MANUAL
	TEXTURED CEILING (PAINT)
	GYPSUM CEILING (PAINT)
	LINEAR LIGHT FIXTURE RE: ELECTRICAL
	2X2 LIGHT FIXTURE RE: ELECTRICAL
	SPECIALTY 2X2 LIGHT FIXTURE RE: ELECTRICAL
	SUSPENDED UNIT HEATER RE: MECHANICAL
CO	CARBON MONOXIDE DETECTOR RE: FIRE PROTECTION
	CEILING FAN RE: ELECTRICAL
	RECESSED LIGHT FIXTURE RE: ELECTRICAL
	WALL-MOUNTED LIGHT FIXTURE RE: ELECTRICAL
	SURFACE MOUNTED LIGHT FIXTURE RE: ELECTRICAL
	SUPPLY GRILLE RE: MECHANICAL
	RETURN GRILLE RE: MECHANICAL
12'-10"	CEILING HEIGHT
	EMERGNECY SIGNAGE RE: LIFE SAFETY AND ELECTRICAL
	CEILING MOUNTED STROBE RE: FIRE PROTECTION



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

NORTH

0' 8" 16" 32" SCALE: 3/4" = 1'-0"

0' 4' 8' 16' SCALE: 1/8" = 1'-0"

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
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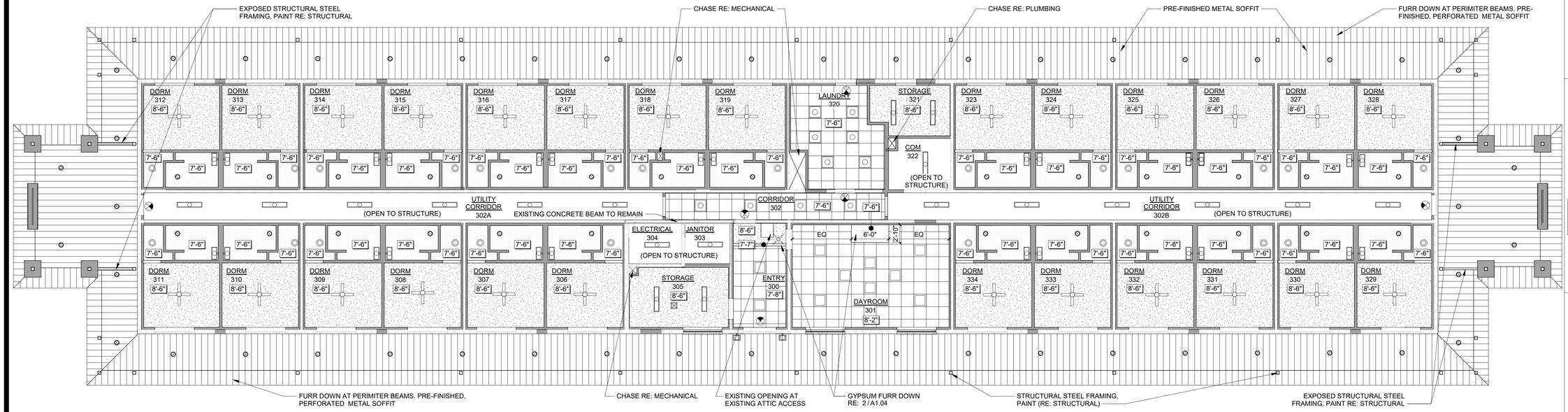
REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C167
STATE OF ARKANSAS
3/29/24

No.	Revision/Issue	Date	BY	APPD

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

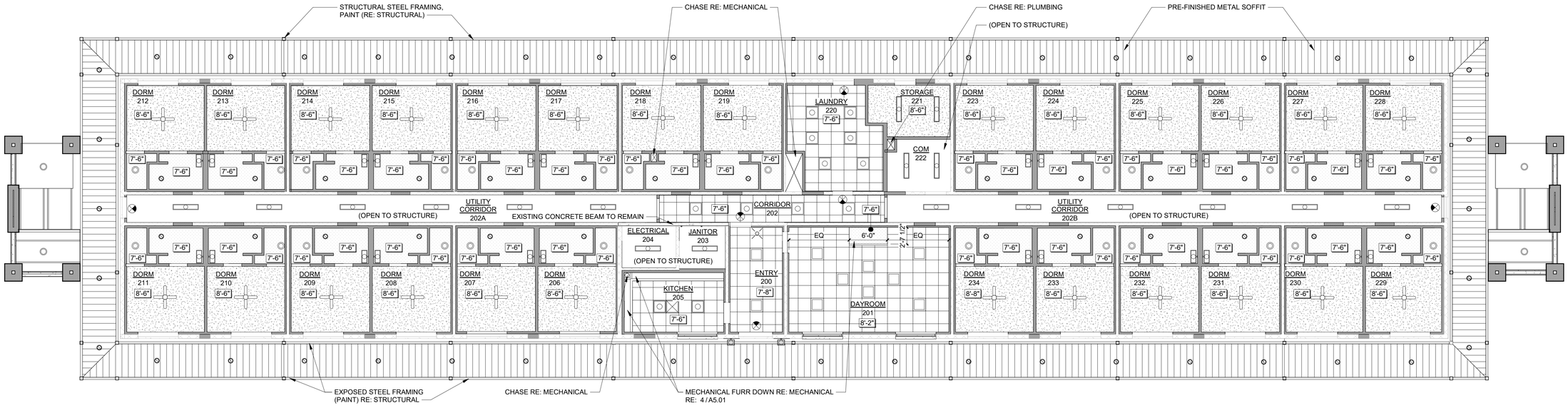
SHEET TITLE
FIRST FLOOR REFLECTED CEILING PLAN, DETAIL AND SYMBOLS LEGEND

DRAWN BY HRS, BD, DR	LEAD DESIGNER C&A
TECH REVIEWER HRS	PROJECT NUMBER NKAK 21-1034
DESIGNED BY C&A	SHEET A1.04
DATE 29 FEB. 2024	
SCALE AS NOTED	36 OF 100



2 THIRD FLOOR - REFLECTED CEILING PLAN
1/8" = 1'-0"

NORTH



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

NORTH

0' 4' 8' 16'

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

AIR MOBILITY COMMAND

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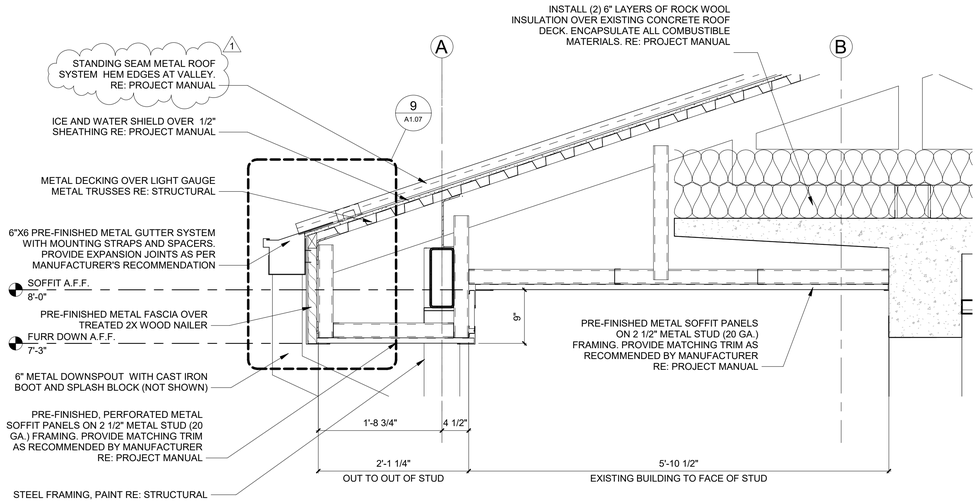
REGISTERED ARCHITECT
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STATE OF ARKANSAS
3/29/24

No.	Revision/Issue	Date	BY	APP'D

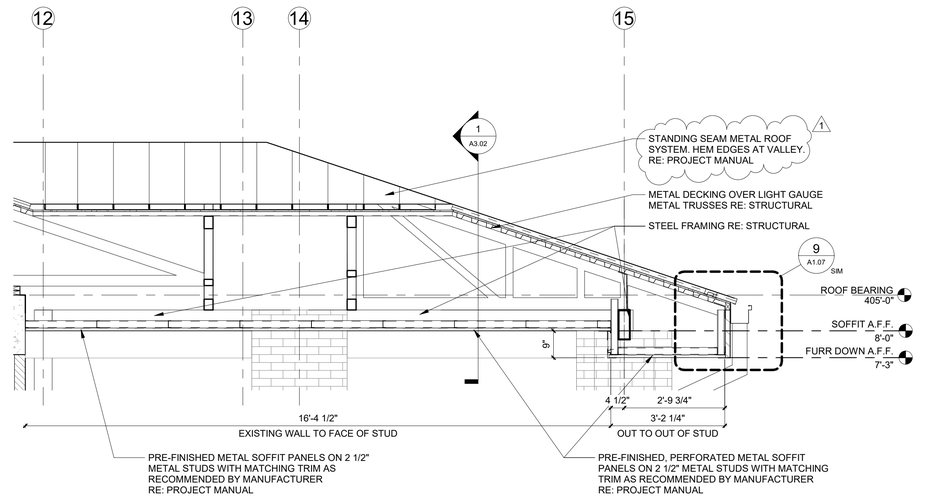
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
SECOND AND THIRD FLOOR REFLECTED CEILING PLANS

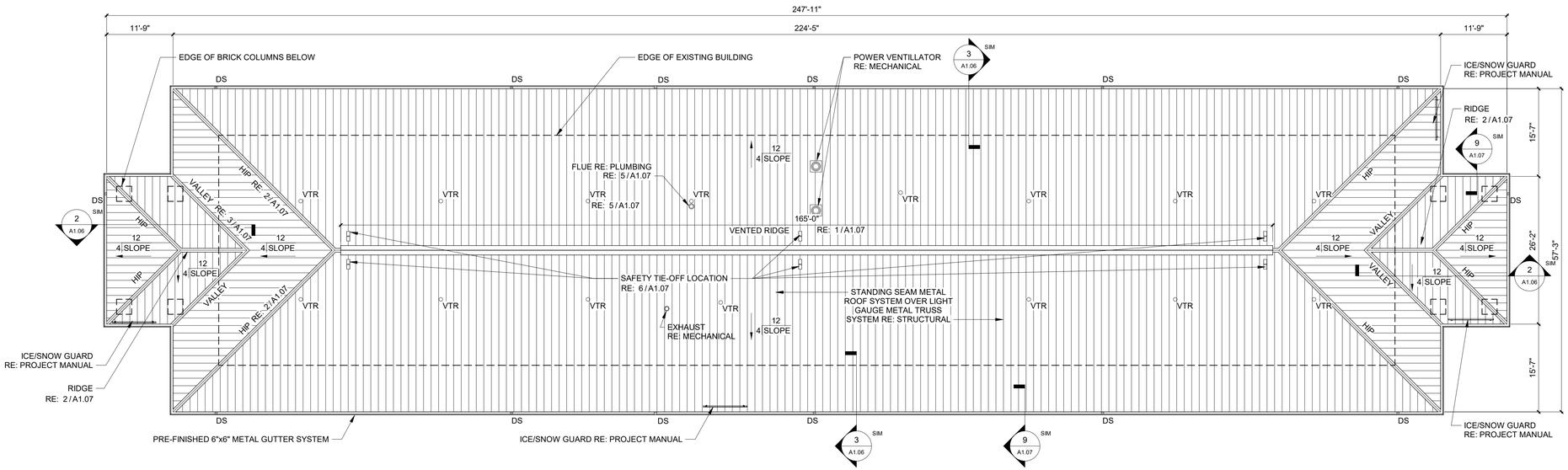
DRAWN BY	LEAD DESIGNER
HS, BD, DR	C&A
TECH REVIEWER	PROJECT NUMBER
HRS	NKAK 21-1034
DESIGNED BY	SHEET
C&A	A1.05
DATE	
29 FEB. 2024	
SCALE	
AS NOTED	37 OF 100



3 EAVE DETAIL AT BALCONY
1" = 1'-0"



2 SECTION @ EXTERIOR STAIR TOWER ROOF
1/2" = 1'-0"



1 ROOF PLAN
3/32" = 1'-0"

NORTH

SCALE: 1" = 1'-0" (0' 6" 1' 2')
SCALE: 1/2" = 1'-0" (0' 1' 2' 4')
SCALE: 3/32" = 1'-0" (0' 5'-4" 10'-8" 21'-4")

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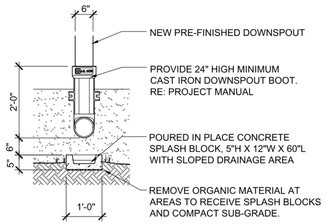
REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C167 — STATE OF ARKANSAS — 4/26/24

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

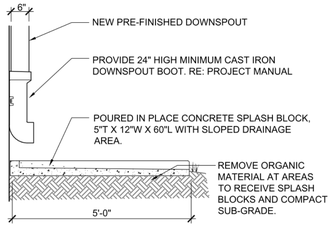
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ROOF PLAN AND DETAILS

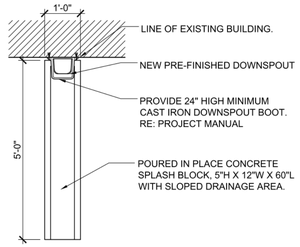
DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: A1.06
DATE: 29 FEB. 2024	
SCALE: AS NOTED	38 OF 100



FRONT ELEVATION

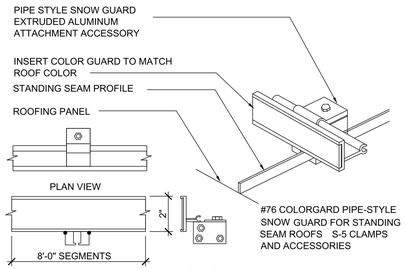


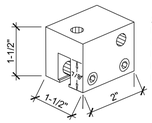
SECTION/SIDE ELEVATION



PLAN

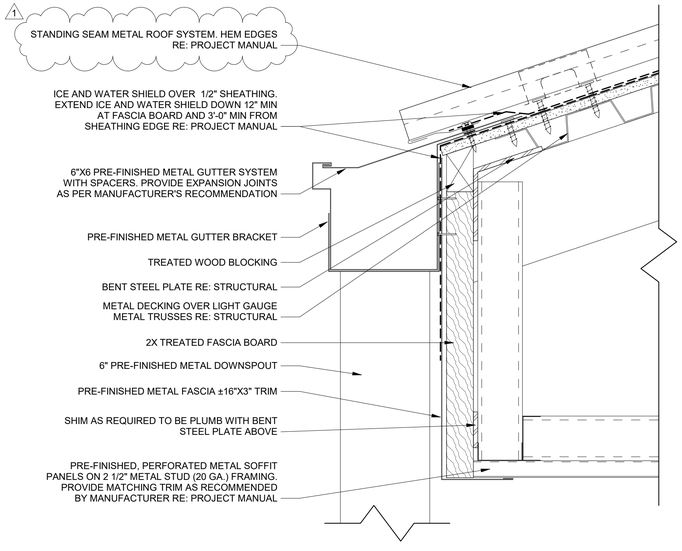
8 DOWNSPOUT BOOT DETAILS
1/2" = 1'-0"



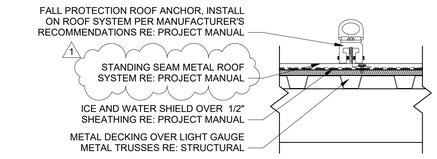


ALUMINUM ACCESSORY USED IN CONJUNCTION WITH SNOW GUARD AS AN ATTACHMENT POINT FOR STANDING SEAM METAL ROOF. INSTALL PER MFG REQUIREMENTS

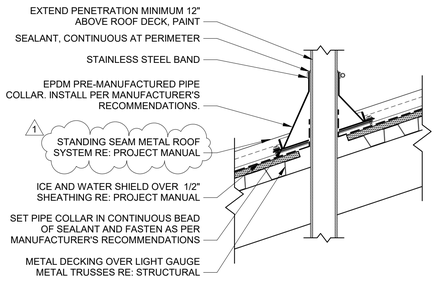
7 SNOW GUARD DETAIL
1 1/2" = 1'-0"



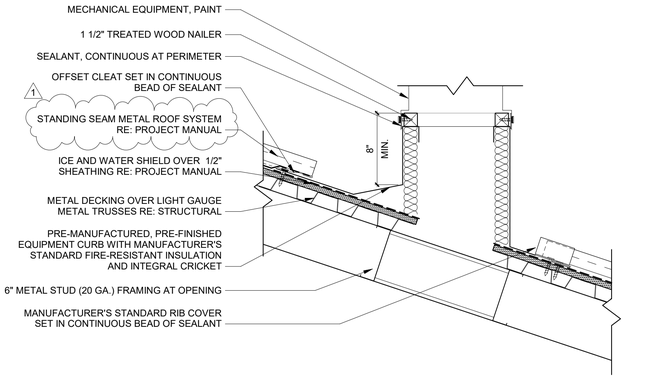
9 GUTTER DETAIL
3" = 1'-0"



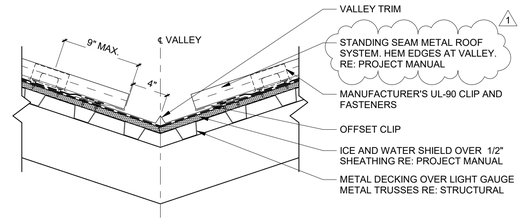
6 SAFETY TIE-OFF DETAIL
1 1/2" = 1'-0"



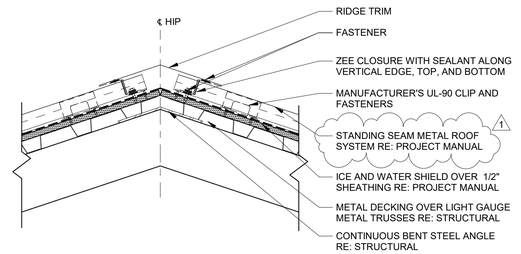
5 ROOF PENETRATION DETAIL
1 1/2" = 1'-0"



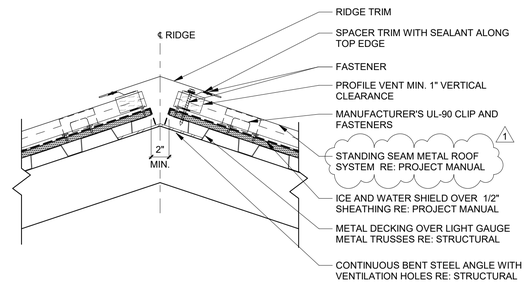
4 MECHANICAL CURB DETAIL
1 1/2" = 1'-0"



3 ROOF VALLEY DETAIL
1 1/2" = 1'-0"



2 ROOF HIP DETAIL
1 1/2" = 1'-0"



1 VENTED RIDGE DETAIL
1 1/2" = 1'-0"

SCALE: 3" = 1'-0" | SCALE: 1 1/2" = 1'-0" | SCALE: 1" = 1'-0" | SCALE: 1/2" = 1'-0"

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

CLEMENTS & ASSOCIATES
ARCHITECTURE, INC.
507 MAIN STREET
NORTH LITTLE ROCK, ARKANSAS 72114
PHONE: 501-375-3380
WWW.CLEMENTSARCHITECTS.COM

REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C157 — STATE OF ARKANSAS — 4/26/24

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

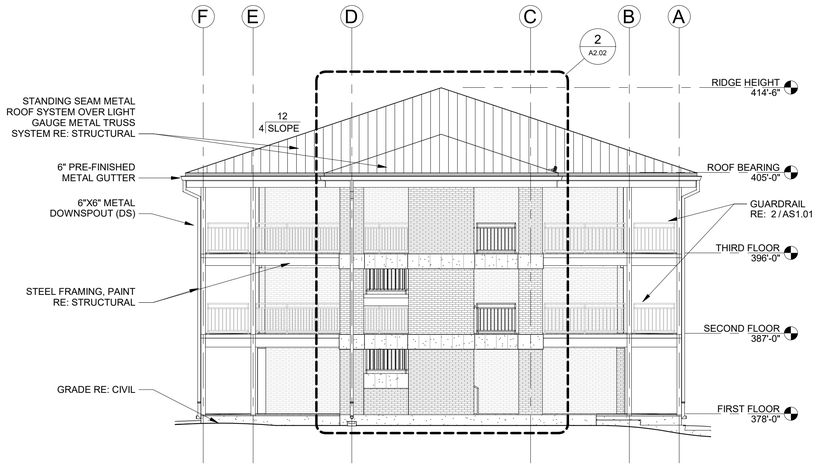
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ROOF DETAILS

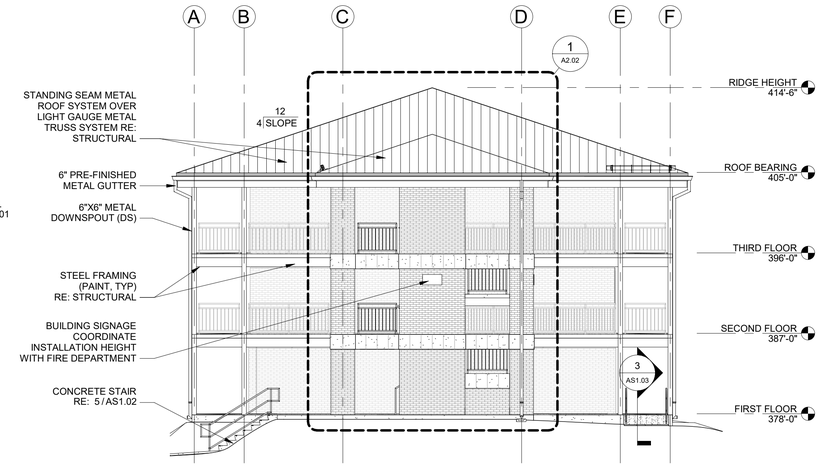
DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: A1.07
DATE: 29 FEB. 2024	
SCALE: AS NOTED	39 OF 100

GENERAL ELEVATION NOTES

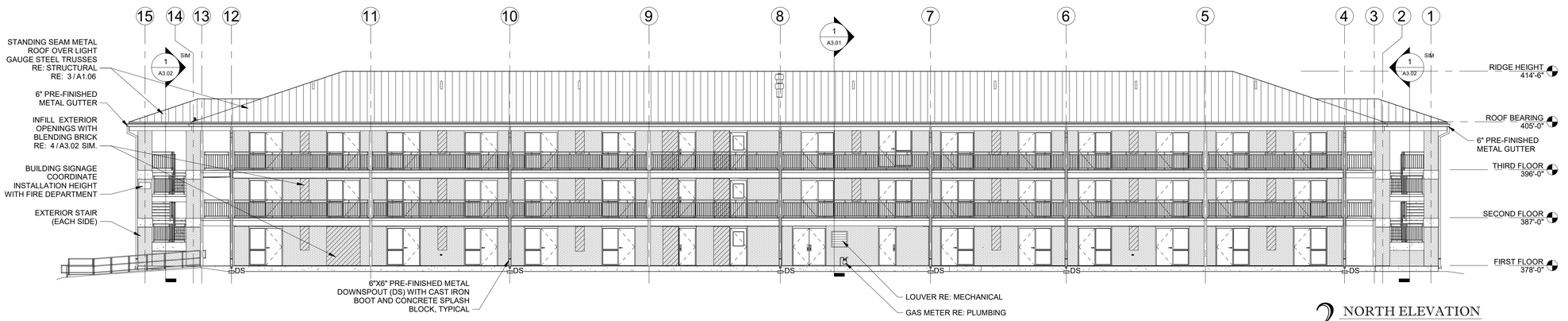
1. ALL EXISTING BRICK TO REMAIN SHALL BE REPOINTED.
2. REPAIR BRICK VENEER AS REQUIRED DUE TO DAMAGE FROM SEISMIC TESTING.
3. REPAIR ALL PITTED, SPALLING, AND CRACKED CONCRETE AT EXISTING DORM WALLS. PREPARE AND PAINT WITH ELASTOMERIC COATING. RE: PROJECT MANUAL



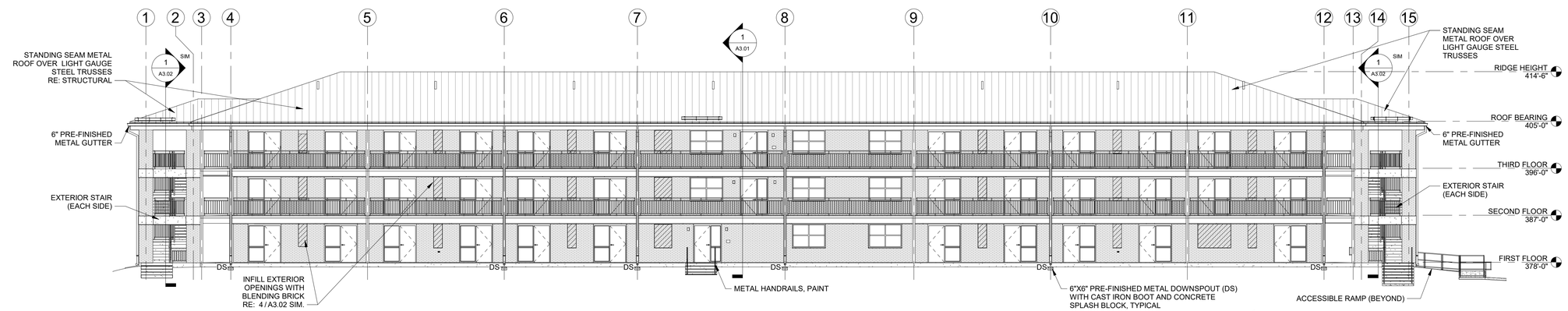
4 WEST ELEVATION
1/8" = 1'-0"



3 EAST ELEVATION
1/8" = 1'-0"



2 NORTH ELEVATION
3/32" = 1'-0"



1 SOUTH ELEVATION (FRONT)
3/32" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

0' 5'-4" 10'-8" 21'-4"
SCALE: 3/32" = 1'-0"

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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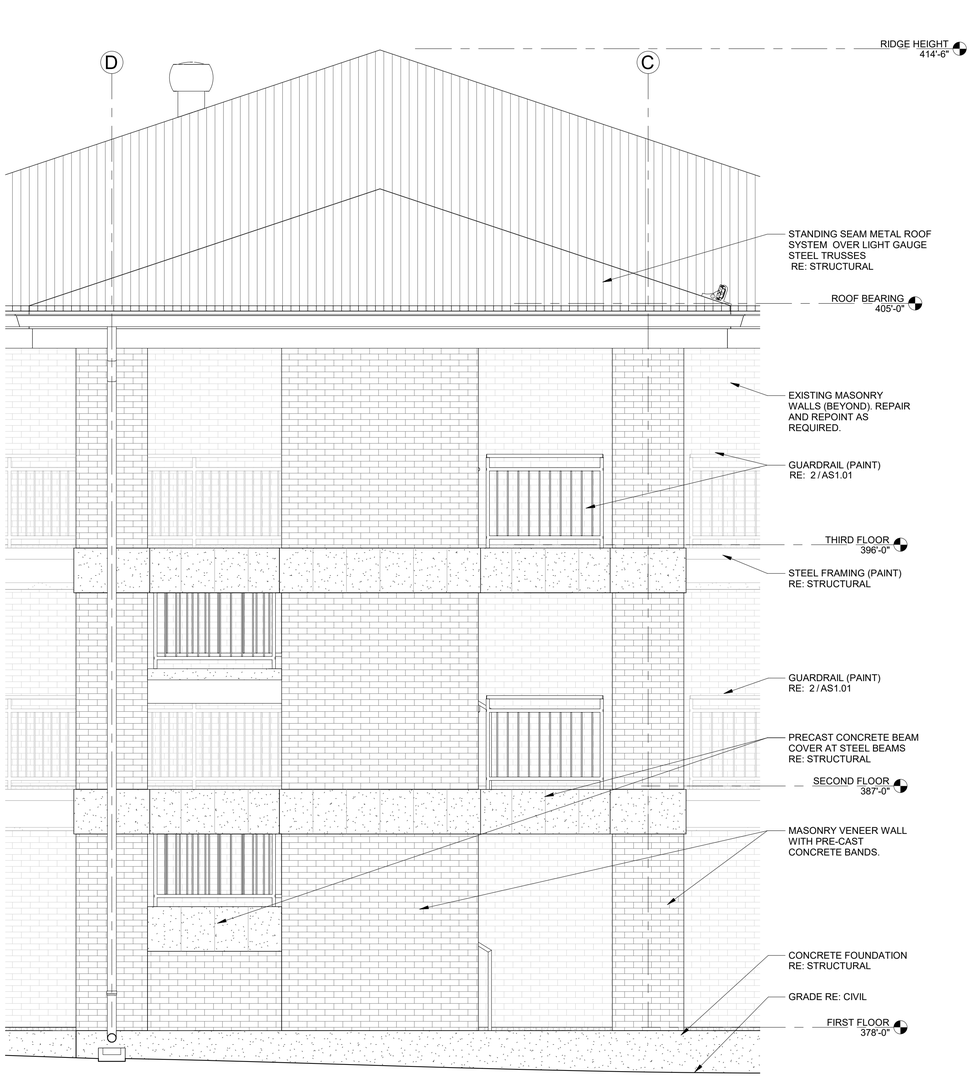
REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C167 — STATE OF ARKANSAS — 2/29/24

No.	Revision/Issue	Date	BY	APP'D

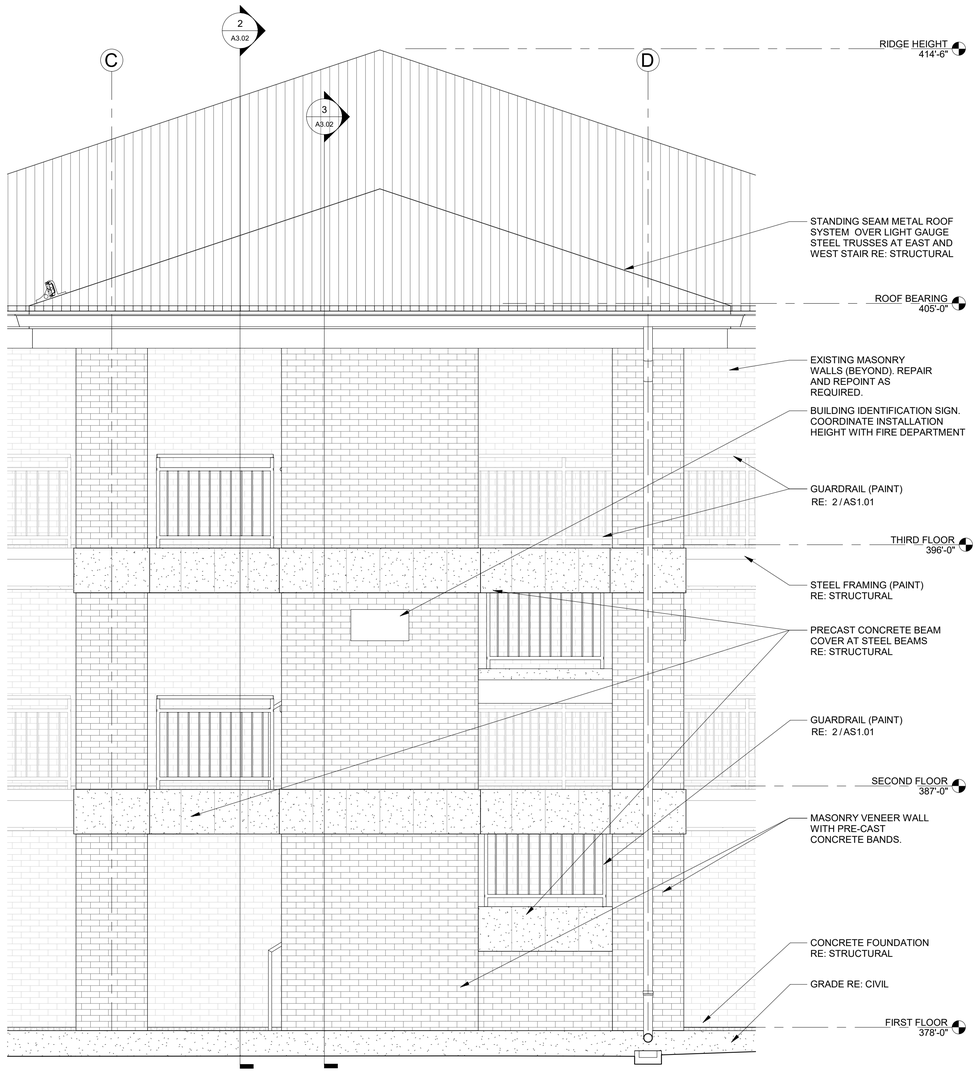
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
EXTERIOR ELEVATIONS AND NOTES

DRAWN BY	LEAD DESIGNER
HRS, BD, DR	C&A
TECH REVIEWER	PROJECT NUMBER
HRS	NKAK 21-1034
DESIGNED BY	SHEET
C&A	A2.01
DATE	
29 FEB. 2024	
SCALE	
AS NOTED	



2 WEST STAIR TOWER ELEVATION
3/8" = 1'-0"



1 EAST STAIR TOWER ELEVATION
3/8" = 1'-0"

0' 1'-4" 2'-8" 5'-4"
SCALE: 3/8" = 1'-0"

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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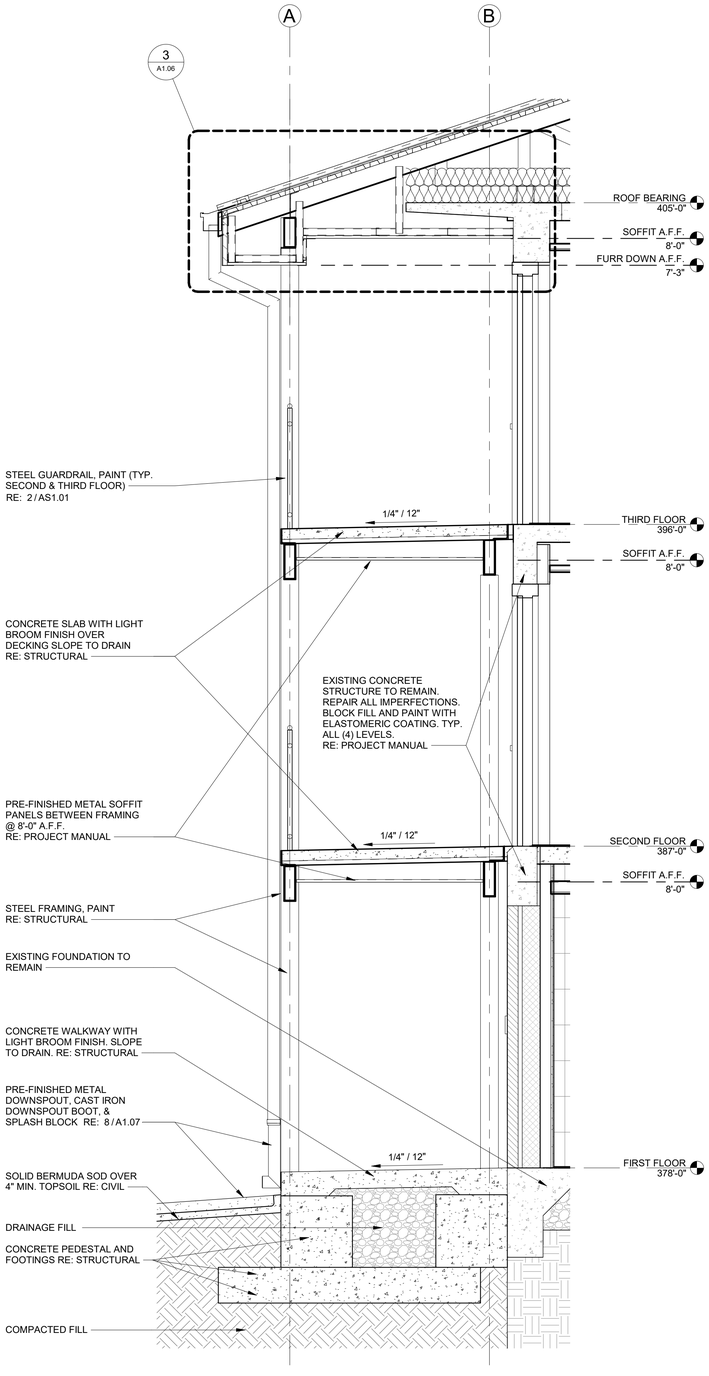
REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C167
STATE OF ARKANSAS
4/29/24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN
DORMITORY BLDG 854

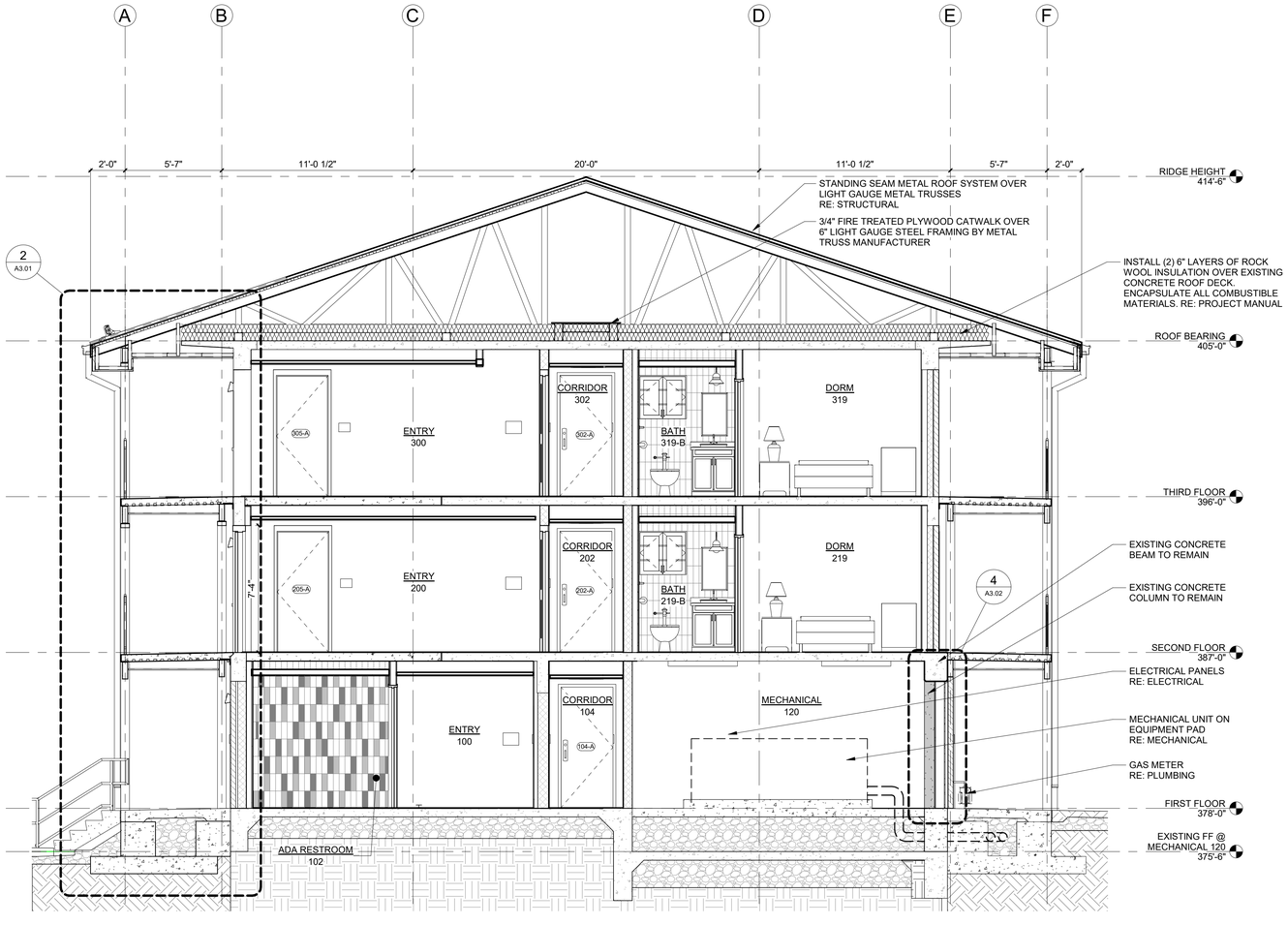
SHEET TITLE
EXTERIOR ELEVATIONS

DRAWN BY	HRS, BD, DR
LEAD DESIGNER	C&A
TECH REVIEWER	HRS
PROJECT NUMBER	NKAK 21-1034
DESIGNED BY	C&A
SHEET	A2.02
DATE	29 FEB. 2024
SCALE	AS NOTED



2 SECTION @ EXTERIOR WALKWAY

1/2" = 1'-0"



1 NORTH/SOUTH BUILDING SECTION

1/4" = 1'-0"

0' 1' 2' 4'

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

0' 2' 4' 8'

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

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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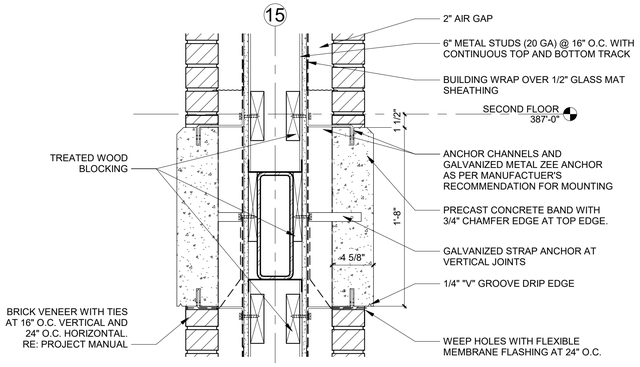
REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C167
STATE OF ARKANSAS
3/29/24

No.	Revision/Issue	Date	BY	APP'D

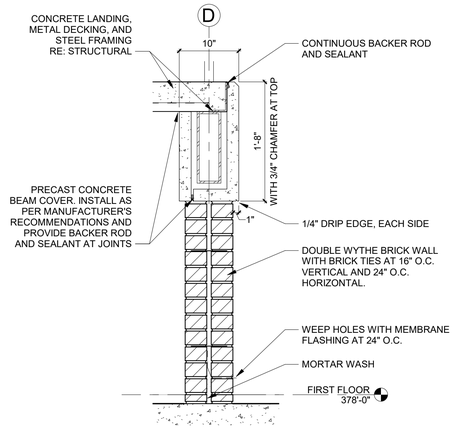
PROJECT TITLE
REPAIR (SUS) AIRMEN
DORMITORY BLDG 854

SHEET TITLE
BUILDING SECTIONS

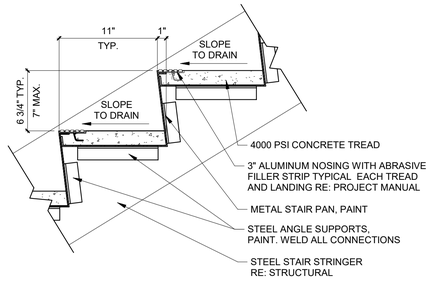
DRAWN BY	LEAD DESIGNER
HRS, BD, DR	C&A
TECH REVIEWER	PROJECT NUMBER
HRS	NKAK 21-1034
DESIGNED BY	SHEET
C&A	A3.01
DATE	
29 FEB. 2024	
SCALE	
AS NOTED	



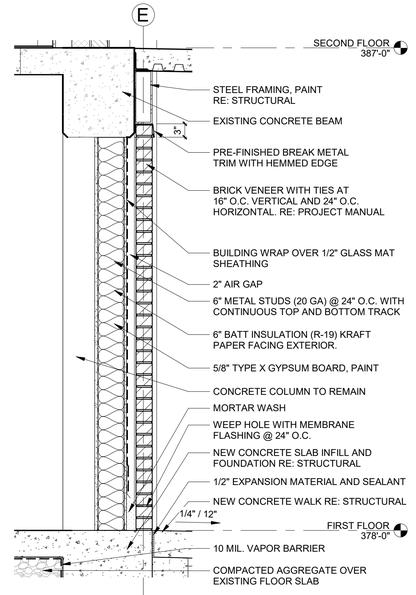
7 CONCRETE BAND CONNECTION
1 1/2" = 1'-0"



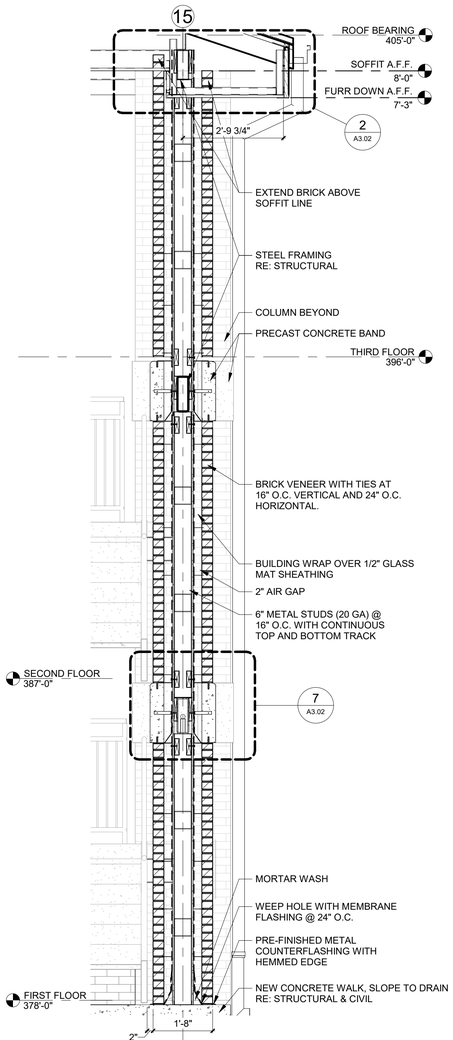
6 BRICK WALL AT LANDINGS
1" = 1'-0"



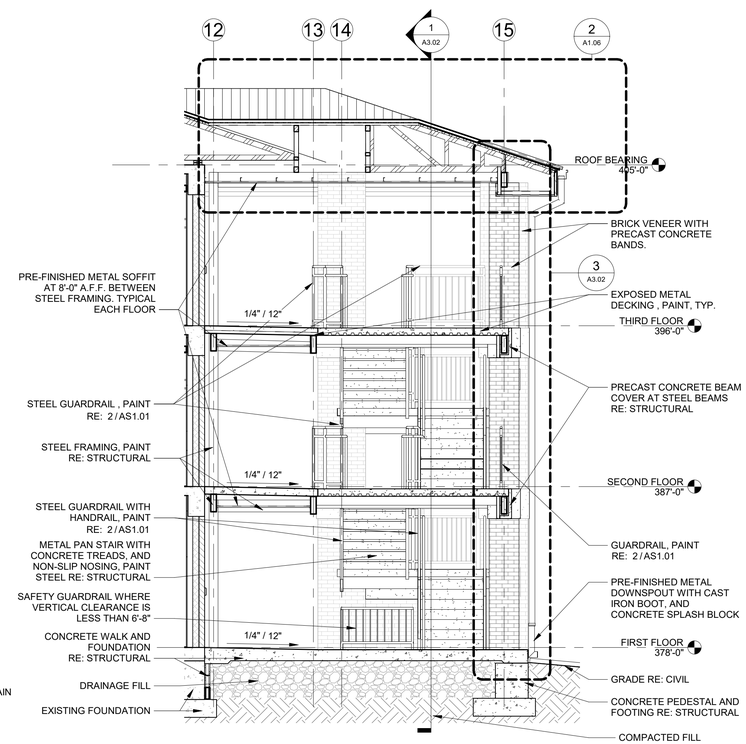
5 TYPICAL METAL PAN NOSING
1 1/2" = 1'-0"



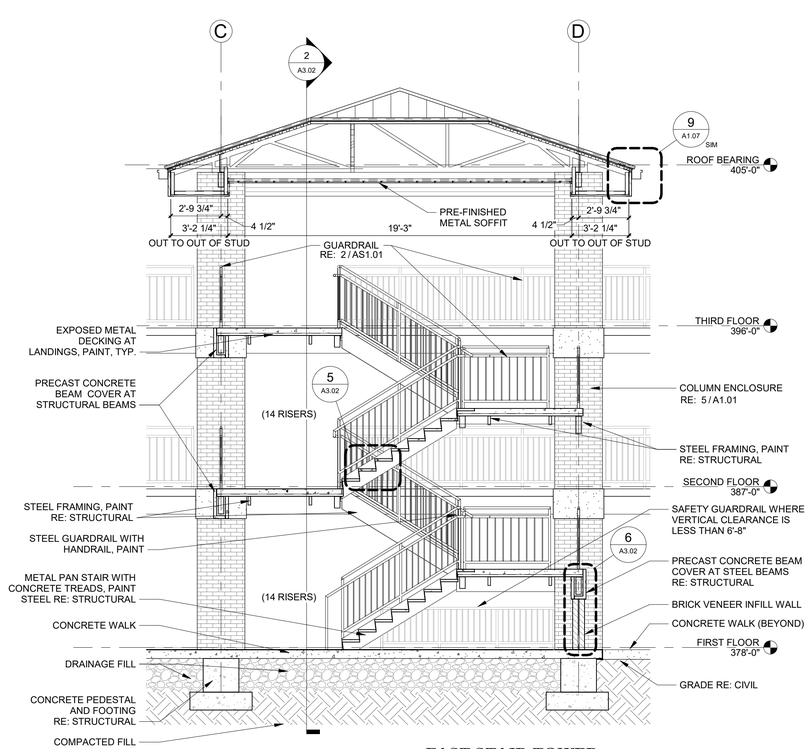
4 EXTERIOR WALL SECTION @ MECHANICAL
3/4" = 1'-0"



3 STAIR TOWER BRICK WALL
1/2" = 1'-0"



2 EAST STAIR TOWER EAST/WEST SECTION
1/4" = 1'-0"



1 EAST STAIR TOWER NORTH/SOUTH SECTION
1/4" = 1'-0"

0' 4" 8" 1'-4" SCALE: 1 1/2" = 1'-0"
0' 6" 1' 2' SCALE: 1" = 1'-0"
0' 8" 16" 32" SCALE: 3/4" = 1'-0"
0' 1' 2' 4' SCALE: 1/2" = 1'-0"
0' 2' 4' 8' SCALE: 1/4" = 1'-0"

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

CLEMENTS & ASSOCIATES
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507 MAIN STREET
NORTH LITTLE ROCK, ARKANSAS 72114
PHONE: 501-375-3380
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REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C167
STATE OF ARKANSAS
3/29/24

No.	Revision/Issue	Date	BY	APP'D

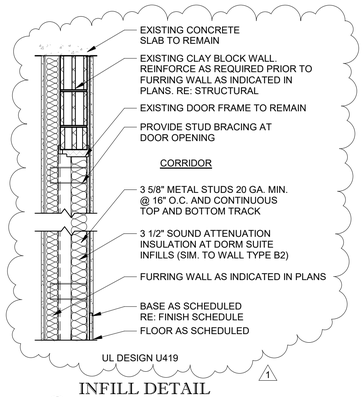
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
STAIR TOWER SECTIONS AND INFILL DETAILS

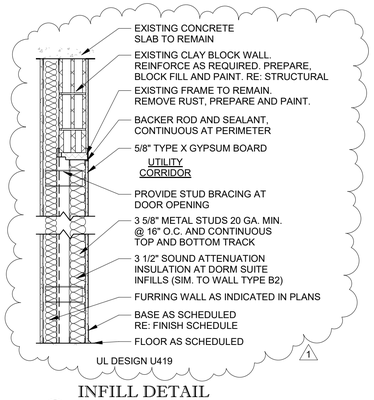
DRAWN BY	HRS, BD, DR
LEAD DESIGNER	C&A
TECH REVIEWER	HRS
PROJECT NUMBER	NKAK 21-1034
DESIGNED BY	C&A
SHEET	A3.02
DATE	29 FEB. 2024
SCALE	AS NOTED

WALL TYPE NOTES

1. UL DESIGN IS TO ENSURE ALL WALLS MEET THE RATINGS REQUIRED BY LIFE SAFETY CODE. INDICATED ON LS1.01 & LS1.02.
2. WALLS WITH A REQUIRED FIRE RATING OR SMOKE RESISTANCE ARE TO BE LABLED AS INDICATED ON LS1.01 & LS1.02 AND NFPA 101, 8.2.2.5
3. STC 50 RATING WAS ADDED TO WALLS SEPARATING THE UTILITY CORRIDOR AND DORMITORY SUITES.

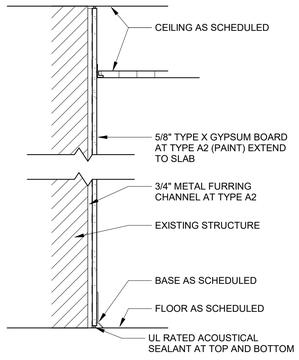


3 INFILL DETAIL @ CORRIDOR
3/4" = 1'-0"



2 INFILL DETAIL @ UTILITY CORRIDOR
3/4" = 1'-0"

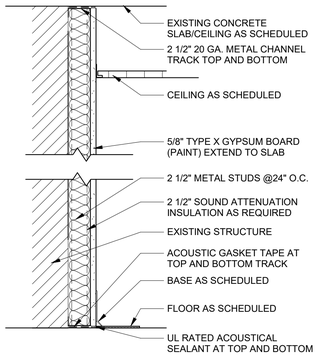
WALL FURRING TYPES



TYPE "A"

TYPE X GYPSUM BOARD (THICKNESS MAY VARY AT EXISTING DOOR JAMBS - COORDINATE WITH C.O.) ONE SIDE OF EXISTING WALL
U.L. DESIGN U419

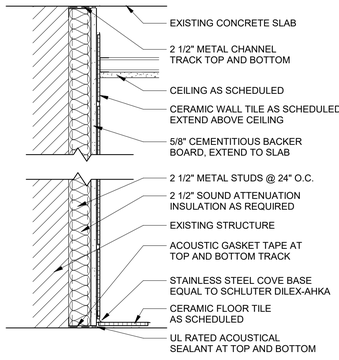
A-1 NOT USED
A2 - PROVIDE 3/4" METAL FURRING STRIPS (20 GA.) AT SOUTH LAUNDRY WALLS. NO INSULATION REQUIRED.
1



TYPE "B"

2 1/2" METAL STUDS (20 GA.) @ 24 O.C. WITH 5/8" TYPE X GYPSUM BOARD ONE SIDE
U.L. DESIGN U419

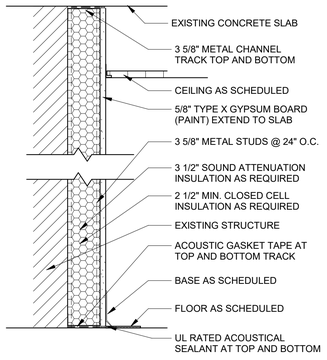
B1 - NO INSULATION REQUIRED
B2 - SOUND ATTENUATION INSULATION - STC 50



TYPE "C"

2 1/2" METAL STUDS @ 24" O.C. WITH 5/8" CEMENTITIOUS BACKER BOARD & CERAMIC TILE ONE SIDE
U.L. DESIGN 419

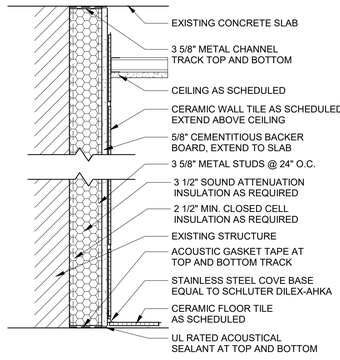
C1 - NO INSULATION REQUIRED
C2 - SOUND ATTENUATION INSULATION



TYPE "D"

3 5/8" METAL STUDS (20 GA.) @ 24" O.C. WITH 5/8" TYPE X GYPSUM BOARD ONE SIDE
U.L. DESIGN 419

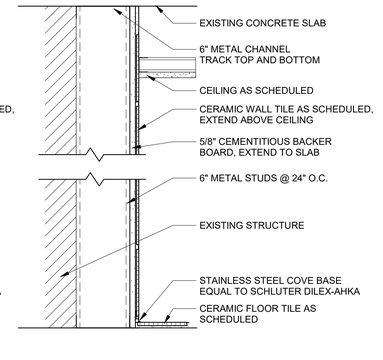
D1 - NO INSULATION REQUIRED
D2 - SOUND ATTENUATION INSULATION
D3 - CLOSED CELL SPRAY INSULATION
NOTE: (2) LAYERS TYPE X GYPSUM BOARD AT 1 HR FIRE RATED SHAFT WALLS. COORDINATE WITH FIRE PROTECTION



TYPE "E"

3 5/8" METAL STUDS @ 24" O.C. WITH 5/8" CEMENTITIOUS BACKER BOARD & CERAMIC TILE ONE SIDE
U.L. DESIGN 419

E1 - NO INSULATION REQUIRED
E2 - SOUND ATTENUATION INSULATION
E3 - CLOSED CELL SPRAY INSULATION

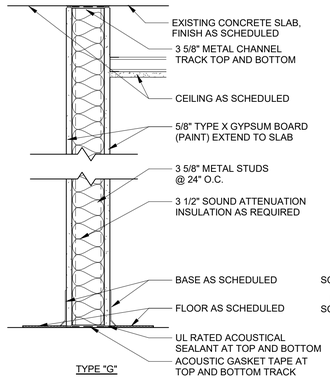


TYPE "F"

6" METAL STUDS (20 GA. MIN) @ 24" O.C. WITH CERAMIC TILE ON 5/8" CEMENTITIOUS BACKER BOARD ONE SIDE

F1 - NO INSULATION REQUIRED

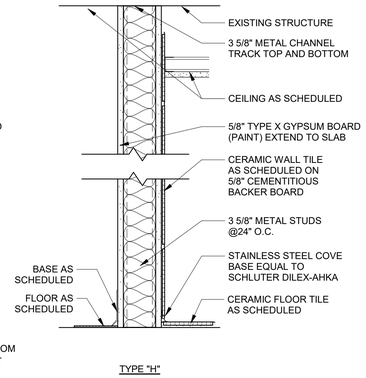
INTERIOR WALL TYPES



TYPE "G"

3 5/8" METAL STUDS (20 GA.) @ 24" O.C. WITH 5/8" TYPE X GYPSUM BOARD BOTH SIDES
U.L. DESIGN 419

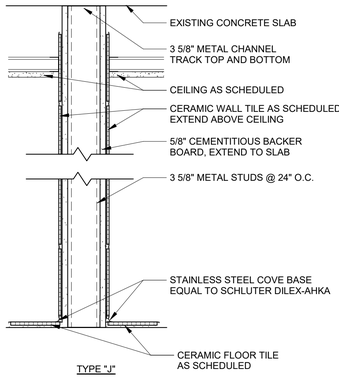
G1 - NO INSULATION REQUIRED
G2 - SOUND ATTENUATION INSULATION - STC 50



TYPE "H"

3 5/8" METAL STUDS (20 GA. MIN) @ 24" O.C. WITH CERAMIC TILE ON 5/8" CEMENTITIOUS BACKER BOARD ON ONE SIDE AND 5/8" TYPE X GYPSUM BOARD ON THE OTHER SIDE

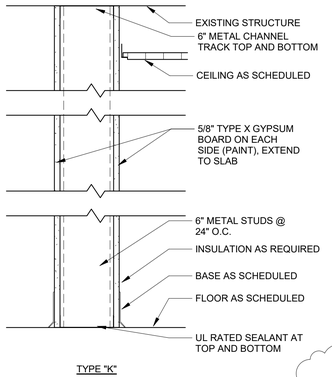
H1 - NO INSULATION REQUIRED



TYPE "J"

3 5/8" METAL STUDS (20 GA. MIN) @ 24" O.C. WITH CERAMIC TILE ON 5/8" CEMENTITIOUS BACKER BOARD ON BOTH SIDES

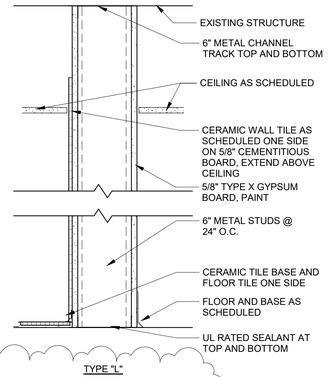
J1 - NO INSULATION REQUIRED



TYPE "K"

6" METAL STUDS (20 GA. MIN) @ 24" O.C. WITH 5/8" TYPE X GYPSUM BOARD ON BOTH SIDES
U.L. DESIGN 419

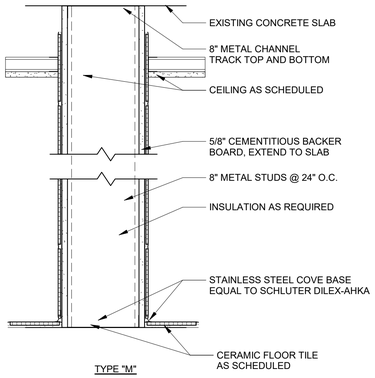
K1 - NO INSULATION REQUIRED



TYPE "L"

6" METAL STUDS (20 GA. MIN) @16" O.C. WITH CERAMIC TILE ON 5/8" CEMENTITIOUS BACKER BOARD ONE SIDE / GYPSUM BOARD ONE SIDE
U.L. DESIGN 419

L1 - NO INSULATION REQUIRED
NOTE: TYPE X GYPSUM BOARD AT INTERIOR SIDE OF 1 HR FIRE RATED SHAFT WALLS. COORDINATE WITH FIRE PROTECTION
1



TYPE "M"

8" METAL STUDS (20 GA. MIN) @ 24" O.C. WITH CERAMIC TILE ON 5/8" CEMENTITIOUS BACKER BOARD ON BOTH SIDES

M1 - NO INSULATION REQUIRED

1 INTERIOR WALL TYPES
1 1/2" = 1'-0"

0' 4" 8" 1'-4"
SCALE: 1 1/2" = 1'-0"

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NORTH LITTLE ROCK, ARKANSAS 72114
PHONE: 501-375-3380
WWW.CLEMENTSARCHITECTS.COM

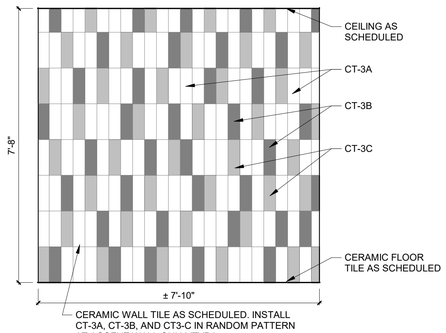
REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C167 — STATE OF ARKANSAS — 4/26/24

No.	Revision/Issue	Date	APP'D
1	100 REVISED SUBMITTAL	4/26/24	

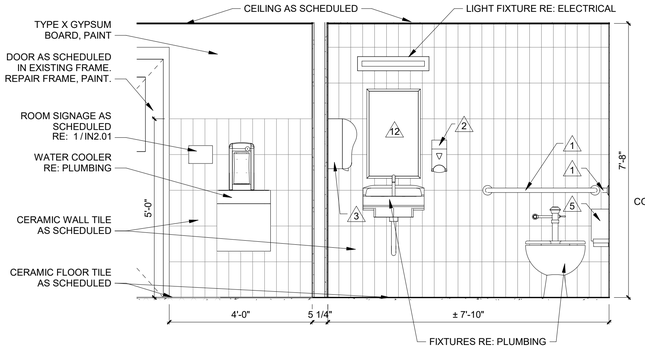
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: INTERIOR WALL TYPES

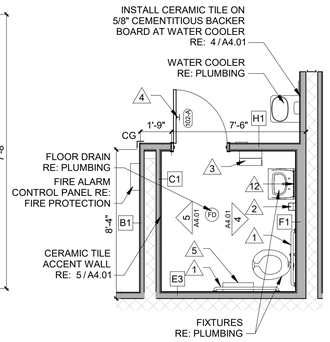
DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: A3.03
DATE: 29 FEB. 2024	44 OF 100
SCALE: AS NOTED	



5 ADA RESTROOM 102 ACCENT WALL
1/2" = 1'-0"



4 ENTRY 100 / ADA RESTROOM 102
1/2" = 1'-0"

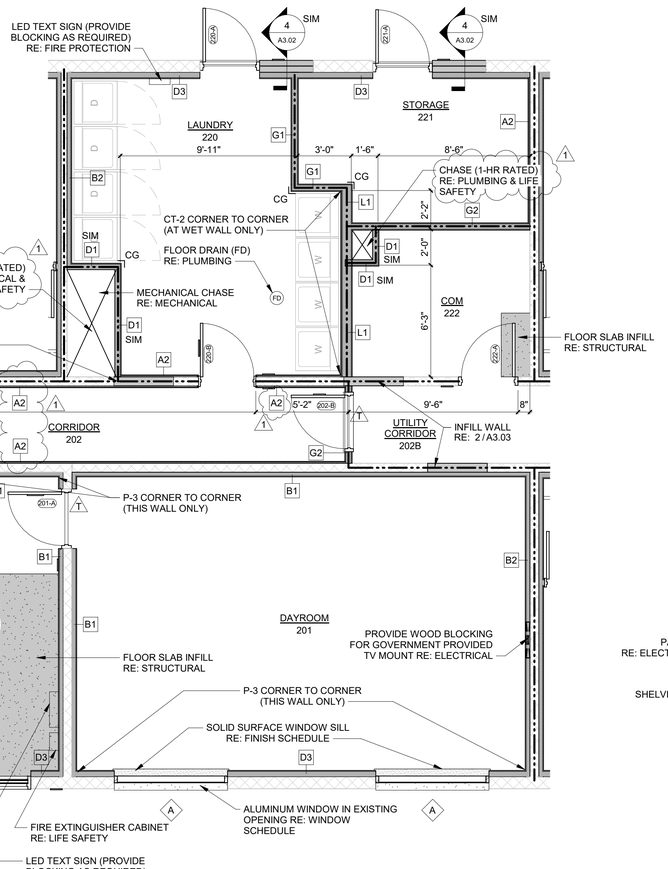


3 ENLARGED PLAN - ADA RESTROOM 102
1/4" = 1'-0"

SYMBOLS LEGEND

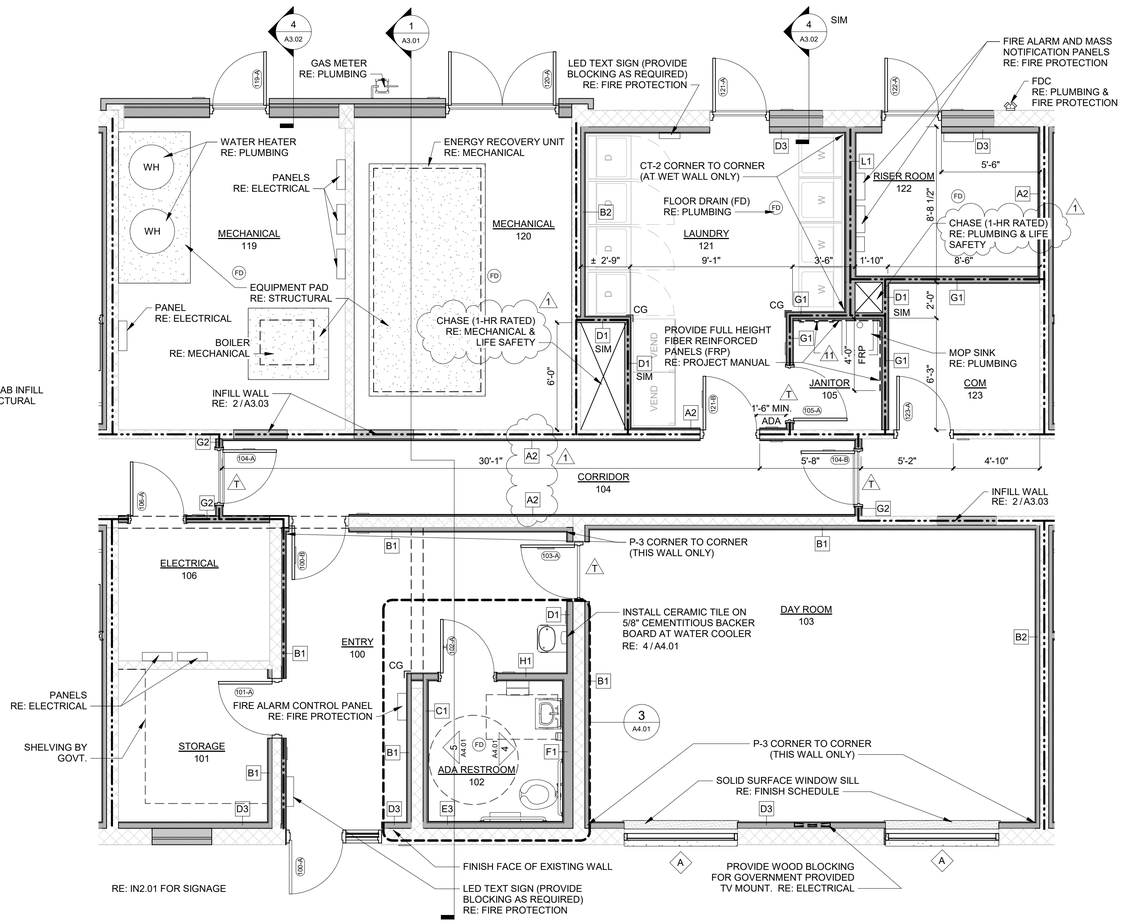
- MECHANICAL 101 — ROOM NAME / ROOM NUMBER
- B — WALL TYPE RE: A3.03
- 232-B — DOOR SYMBOL AND NUMBER RE: DOOR SCHEDULE
- ## — WINDOW TYPE RE: WINDOW SCHEDULE
- 1 / A1.01 — SECTION MARK: DETAIL NUMBER / SHEET NUMBER
- # / # SLOPE — SLOPE: MEASUREMENT AND DIRECTION
- FD — FLOOR DRAIN RE: PLUMBING
- T — THRESHOLD RE: PROJECT MANUAL
- # — TOILET ACCESSORY TAG RE: TOILET ACCESSORY SCHEDULE
- 1 / A1.01 — EXTERIOR ELEVATION: DETAIL NUMBER / SHEET NUMBER
- 1 / A101 — INTERIOR ELEVATION: DETAIL NUMBER / SHEET NUMBER
- # / ## SIM — ENLARGED DETAIL: DETAIL NUMBER / SHEET NUMBER
- FLOOR INFILL RE: STRUCTURAL
- EXISTING WALL TO REMAIN
- NEW WALL OR INFILL
- DS — DOWNSPOUT
- FIRE RATED PARTITION RE: WALL TYPES & LIFE SAFETY. CONSTRUCT AS 1-HR FR UL DESIGN U419

NOTE: UL DESIGN IS TO ENSURE ALL WALLS MEET THE RATINGS REQUIRED BY LIFE SAFETY CODE. DOOR RATINGS ARE TO MEET LIFE SAFETY FIRE RATINGS NOTED ON LS1.01 & LS1.02



2 SECOND FLOOR - ENLARGED COMMON AREA
1/4" = 1'-0"

NORTH



1 FIRST FLOOR - ENLARGED COMMON AREA
1/4" = 1'-0"

NORTH

0' 1' 2' 4' — SCALE: 1/2" = 1'-0"

0' 2' 4' 8' — SCALE: 1/4" = 1'-0"

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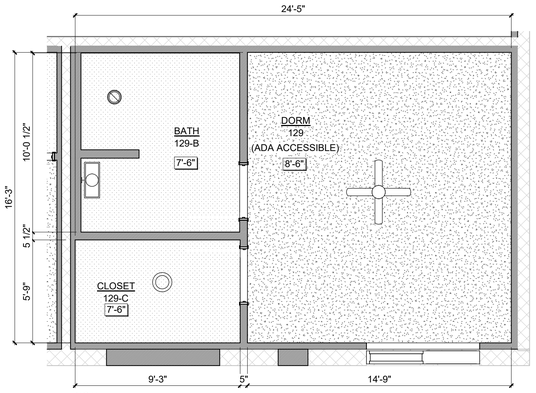
REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C157 — STATE OF ARKANSAS — 4/26/24

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ENLARGED PLANS

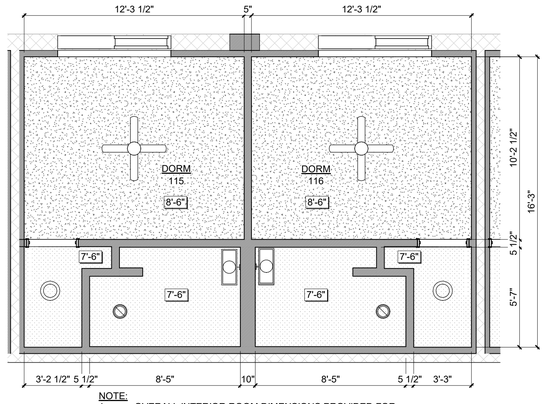
DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: A4.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	45 OF 100



NOTE:
1. OVERALL INTERIOR ROOM DIMENSIONS PROVIDED FOR INFORMATION ONLY. DIMENSIONS NOT FOR CONSTRUCTION.

8 TYPICAL ADA DORM REFLECTED CEILING PLAN
1/4" = 1'-0"

NORTH



NOTE:
1. OVERALL INTERIOR ROOM DIMENSIONS PROVIDED FOR INFORMATION ONLY. DIMENSIONS NOT FOR CONSTRUCTION.

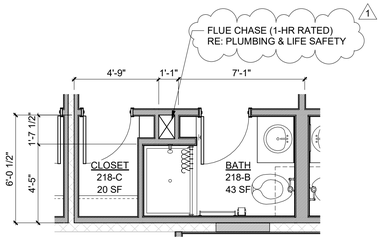
5 TYPICAL DORM REFLECTED CEILING PLAN
1/4" = 1'-0"

NORTH

SYMBOLS LEGEND

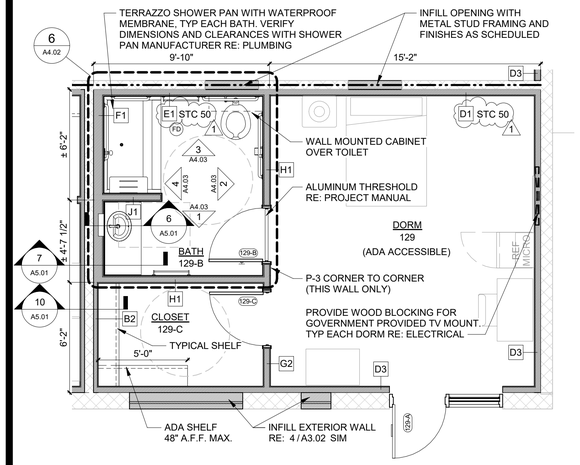
- MECHANICAL 101 — ROOM NAME / ROOM NUMBER
- B — WALL TYPE / RE: A3.03
- 232-B — DOOR SYMBOL AND NUMBER / RE: DOOR SCHEDULE
- ## — WINDOW TYPE / RE: WINDOW SCHEDULE
- 1 / A1.01 — SECTION MARK / DETAIL NUMBER / SHEET NUMBER
- # / # SLOPE — SLOPE / MEASUREMENT AND DIRECTION
- FD — FLOOR DRAIN / RE: PLUMBING
- 1 — THRESHOLD / RE: PROJECT MANUAL
- # — TOILET ACCESSORY TAG / RE: TOILET ACCESSORY SCHEDULE
- 1 / A1.01 — EXTERIOR ELEVATION / DETAIL NUMBER / SHEET NUMBER
- 1 / A101 — INTERIOR ELEVATION / DETAIL NUMBER / SHEET NUMBER
- # / ## SIM — ENLARGED DETAIL / DETAIL NUMBER / SHEET NUMBER
- FLOOR INFILL / RE: STRUCTURAL
- EXISTING WALL / TO REMAIN
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- DS — DOWNSPOUT
- FIRE RATED PARTITION / RE: WALL TYPES & LIFE SAFETY. CONSTRUCT AS 1-HR FR UL DESIGN U419

NOTE: UL DESIGN IS TO ENSURE ALL WALLS MEET THE RATINGS REQUIRED BY LIFE SAFETY CODE. DOOR RATINGS ARE TO MEET LIFE SAFETY FIRE RATINGS NOTED ON LS1.01 & LS1.02



2 SECOND & THIRD DIMENSION FLOOR PLAN AT FLUE CHASE
1/4" = 1'-0"

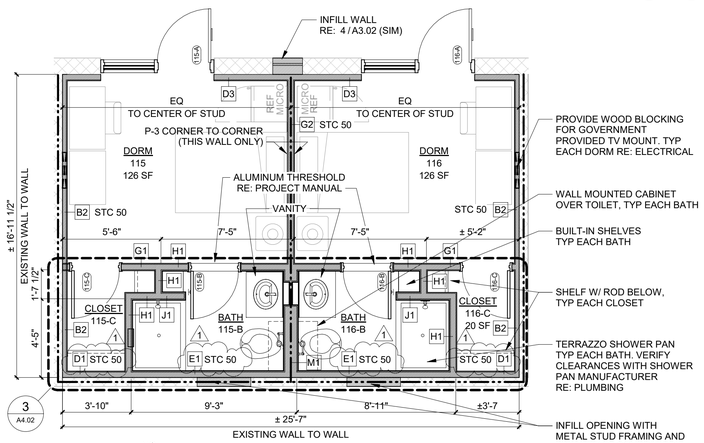
NORTH



NOTE:
1. DIMENSIONS FROM FACE OF EXISTING CLAY TILE WALLS TO RIGHT OF STUD AND BOTTOM OF STUD UNLESS OTHERWISE NOTED.
2. TOILET ACCESSORIES NOT SHOWN FOR CLARITY. REFER TO TYPICAL DORM TOILET ACCESORY PLAN.

7 TYPICAL ADA DORM DIMENSION PLAN
1/4" = 1'-0"

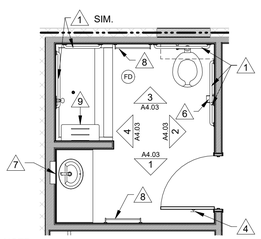
NORTH



NOTE:
1. DIMENSIONS FROM FACE OF EXISTING CLAY TILE WALLS TO RIGHT OF STUD AND BOTTOM OF STUD UNLESS OTHERWISE NOTED.
2. TOILET ACCESSORIES NOT SHOWN FOR CLARITY. REFER TO TYPICAL DORM TOILET ACCESORY PLAN.

4 TYPICAL DORM DIMENSION PLAN
1/4" = 1'-0"

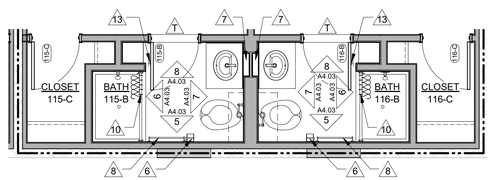
NORTH



NOTE:
1. REFER TO TYPICAL DORM DIMENSION PLAN FOR ADDITIONAL CONSTRUCTION INFORMATION

6 TYPICAL ADA DORM TOILET ACCESSORY PLAN
1/4" = 1'-0"

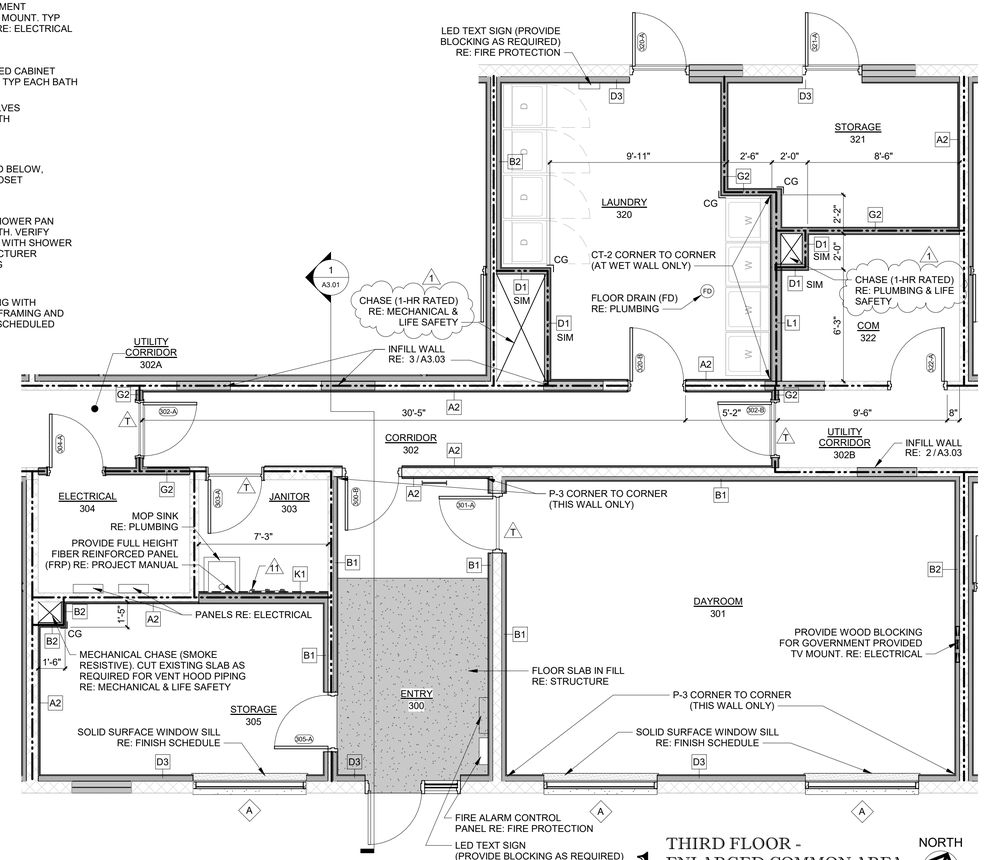
NORTH



NOTE:
1. REFER TO TYPICAL DORM DIMENSION PLAN FOR ADDITIONAL CONSTRUCTION INFORMATION

3 TYPICAL DORM TOILET ACCESSORY PLAN
1/4" = 1'-0"

NORTH



1 THIRD FLOOR - ENLARGED COMMON AREA
1/4" = 1'-0"

NORTH

0' 2' 4' 8'

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

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REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C157 — STATE OF ARKANSAS — 4/26/24

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

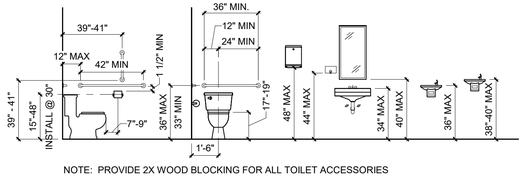
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ENLARGED PLANS

DRAWN BY	HRS, BD, DR
LEAD DESIGNER	C&A
TECH REVIEWER	HRS
PROJECT NUMBER	NKAK 21-1034
DESIGNED BY	C&A
SHEET	A4.02
DATE	29 FEB. 2024
SCALE	AS NOTED

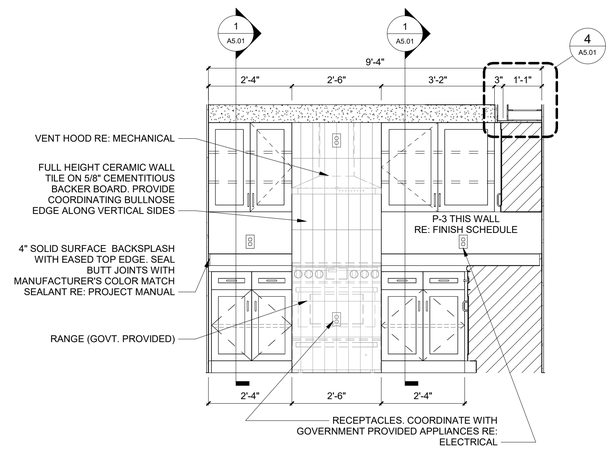
TOILET ACCESSORY SCHEDULE

1. ONE (1) 36" GRAB BAR BEHIND THE TOILET, ONE (1) 42" GRAB BAR ADJACENT TO TOILET. GRAB BARS SHALL BE MOUNTED 33" - 36" A.F.F. TO THE TOP OF THE GRIPPING SURFACE. GRAB BARS SHOULD HAVE 1/4" MIN. 2" MAX O.D. AND 1 1/2" CLEARANCE OFF WALL. GRAB BAR BLOCKING AND ANCHORS SHALL SUPPORT A CONCENTRATED LOAD OF 250 POUNDS APPLIED AT ANY POINT IN ANY DIRECTION. REFER TO AND COMPLY WITH ADA 609 AND STATE BUILDING CODE. BARS SHALL BE EQUAL TO BRADLEY 812 (PEENED, NON-SLIP SURFACE). COORDINATE GRAB BAR WITH TOILET TYPE & LOCATION
2. WALL MOUNTED SOAP DISPENSER EQUAL TO TRIPLE-S SSS FOAMCLEAN DISPENSER, GRAY G/1000ML
3. WALL MOUNTED MECHANICAL HANDS FREE ROLL TOWEL DISPENSER EQUAL TO SAN JAMAR CLASSIC SIMPLICITY ESSENCE T7400TBK
4. STAINLESS STEEL DOUBLE ROBE HOOK EQUAL TO BOBRICK B-6727 MOUNTED AT 70" A.F.F. IN TYPICAL DORM BATHROOMS. 48" A.F.F. MAX. IN ADA DORM BATHROOMS 128 & 129
5. SURFACE MOUNTED DOUBLE ROLL TOILET PAPER HOLDER EQUAL TO BOBRICK SURFACE-MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER B-2892
6. SURFACE MOUNTED TOILET ROLL HOLDER EQUAL TO BOBRICK FINO COLLECTION TOILET ROLL HOLDER B-9543
7. RECESSED STEEL MEDICINE CABINET WITH GLASS MIRROR (ADA COMPLIANT) EQUAL TO BOBRICK B-398
8. SURFACE MOUNTED 24" SATIN FINISH STAINLESS STEEL TOWEL BAR EQUAL TO BOBRICK B-6737 AT 48" A.F.F.
9. SOLID PHENOLIC FOLDING SHOWER/DRESSING AREA SEAT WITH STAINLESS STEEL FRAME EQUAL TO BOBRICK B-5193
10. STAINLESS STEEL HEAVY DUTY SHOWER CURTAIN ROD EQUAL TO BOBRICK B-6107 WITH VINYL SHOWER CURTAIN AND STAINLESS STEEL SHOWER CURTAIN HOOKS EQUAL TO BOBRICK 204
11. STAINLESS STEEL MOP AND BROOM HOLDER WITH 3 HOLDERS EQUAL TO BRADLEY MODEL 9953
12. STAINLESS STEEL FIXED TILT MIRROR WITH WELDED CORNERS EQUAL TO BRADLEY 740

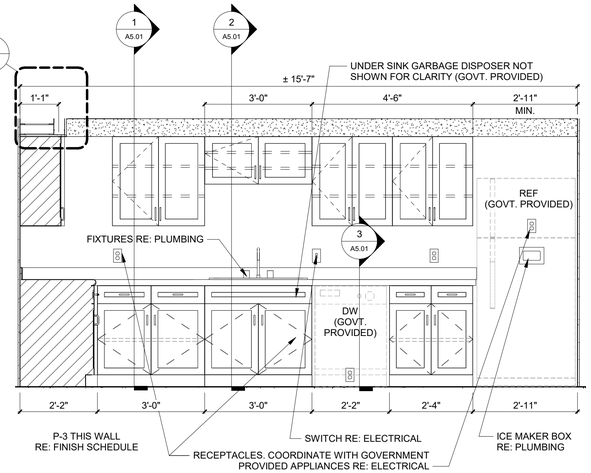


NOTE: PROVIDE 2X WOOD BLOCKING FOR ALL TOILET ACCESSORIES

12 ADA MOUNTING HEIGHTS
1/4" = 1'-0"

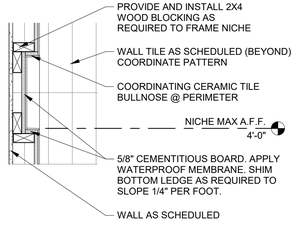


11 KITCHEN 205 WEST WALL
1/2" = 1'-0"

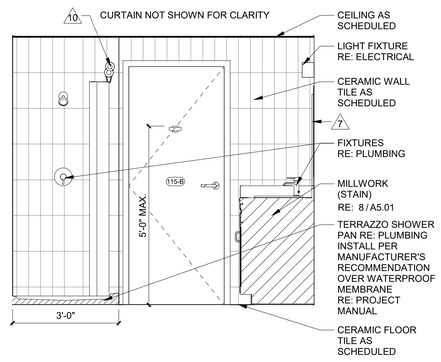


APPLIANCES PROVIDED BY GOVERNMENT. INSTALLED BY CONTRACTOR.

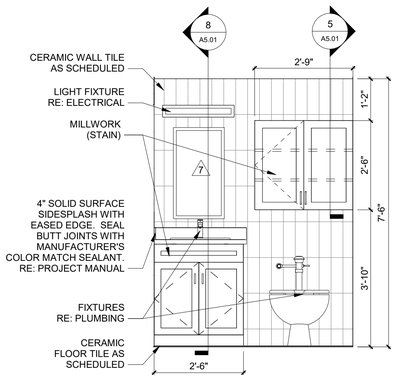
10 KITCHEN 205 NORTH WALL
1/2" = 1'-0"



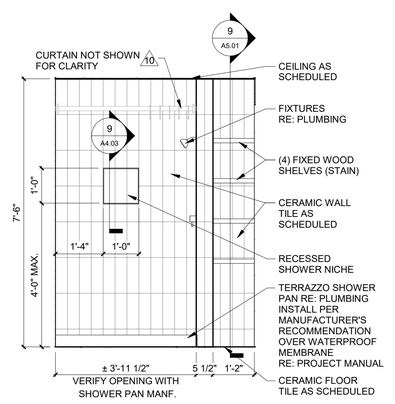
9 SHOWER NICHE
1" = 1'-0"



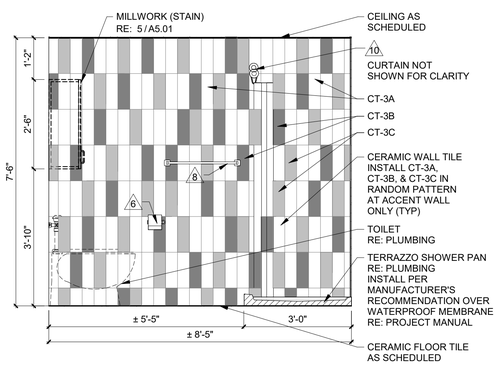
8 TYP. DORM BATH DOOR WALL
1/2" = 1'-0"



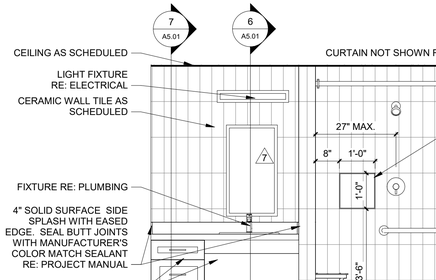
7 TYP. DORM BATH VANITY WALL
1/2" = 1'-0"



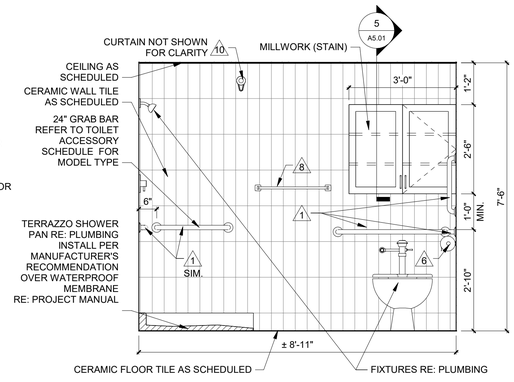
6 TYP. DORM BATH SHOWER WALL
1/2" = 1'-0"



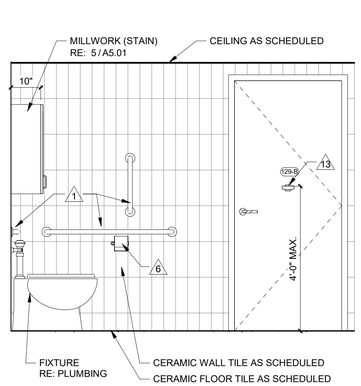
5 TYP. DORM BATH ACCENT WALL
1/2" = 1'-0"



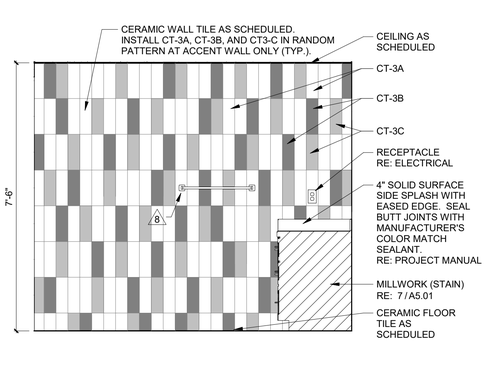
4 ADA DORM BATH VANITY WALL
1/2" = 1'-0"



3 ADA DORM BATH SHOWER/TOILET WALL
1/2" = 1'-0"



2 ADA DORM BATH DOOR WALL
1/2" = 1'-0"



1 ADA DORM BATH ACCENT WALL
1/2" = 1'-0"

0' 6" 1' 2' — SCALE: 1" = 1'-0"

0' 1' 2' 4' — SCALE: 1/2" = 1'-0"

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ARKANSAS

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PHONE: 501-375-3380
WWW.CLEMENTSARCHITECTS.COM

REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. No. C167 — STATE OF ARKANSAS — 3/29/24

No.	Revision/Issue	Date	BY	APP'D

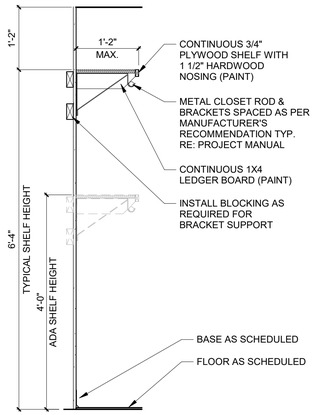
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: INTERIOR ELEVATIONS, TOILET ACCESSORY SCHEDULE, AND ADA MOUNTING HEIGHTS

DRAWN BY	HRS, BD, DR
LEAD DESIGNER	C&A
TECH REVIEWER	HRS
PROJECT NUMBER	NKAK 21-1034
DESIGNED BY	C&A
SHEET	A4.03
DATE	29 FEB. 2024
SCALE	AS NOTED

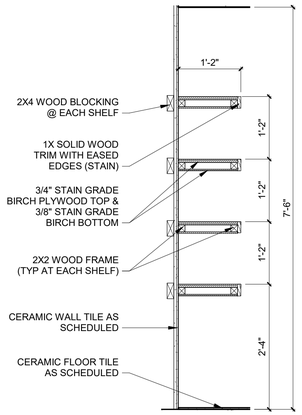
MILLWORK GENERAL NOTES

1. ALL MILLWORK IS TO BE STAINED. REFER TO FINISH SCHEDULE FOR COLOR.
2. ALL MILLWORK IS TO BE CONSTRUCTED OF STAIN-GRADE HARDWOOD AND/OR PLYWOOD.
3. CABINET DOORS AND DRAWER FRONTS ARE TO BE STILE AND RAIL, SHAKER STYLE.
4. PROVIDE FINISHED ENDS AT STOVE OPENING.
5. COORDINATE MILLWORK APPLIANCE SPACES WITH GOVERNMENT PROVIDED APPLIANCES.
6. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.



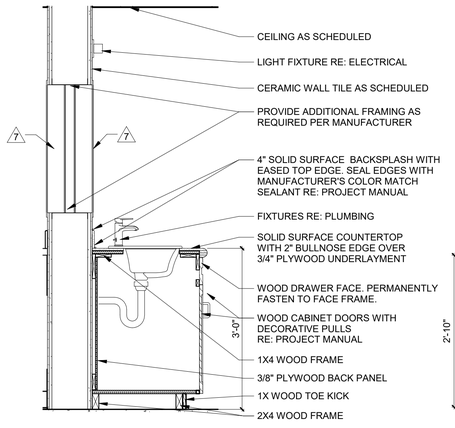
NOTE:
5'-0" SECTION OF SHELF & ROD TO BE 4'-0" A.F.F.
MAX. TO TOP OF SHELF IN ADA DORM 128 & 129

10 CLOSET SHELF SECTION
3/4" = 1'-0"

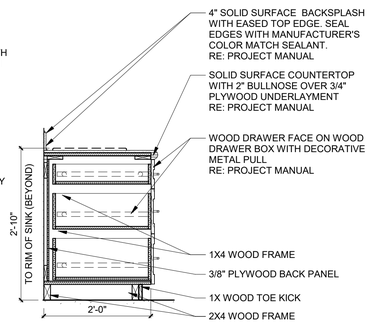


NOTE:
SHELF DEPTH @ BATH 219-B & BATH 318-B
APPROXIMATELY 11" (FIELD VERIFY)

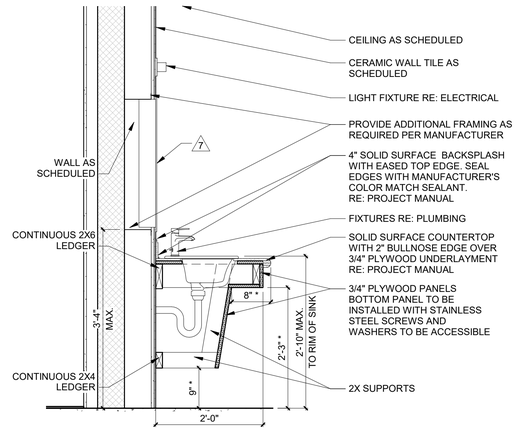
9 DORM SHELVES SECTION
3/4" = 1'-0"



8 DORM VANITY SECTION
3/4" = 1'-0"

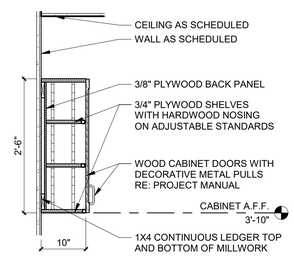


7 ADA VANITY DRAWER SECTION
3/4" = 1'-0"

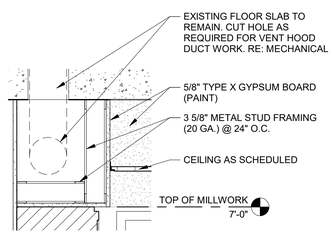


NOTE:
DIMENSIONS MARKED WITH (*) SHALL BE THE
MINIMUM REQUIRED DISTANCE FOR ADA

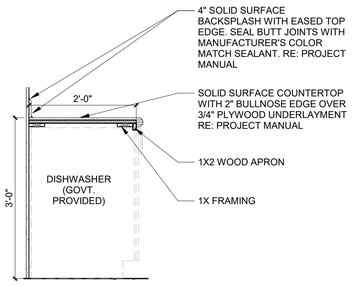
6 ADA VANITY SECTION
3/4" = 1'-0"



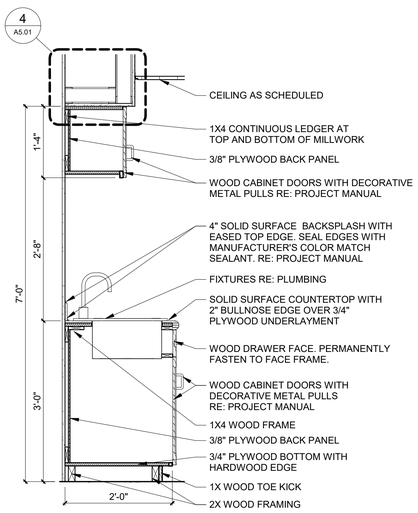
5 BATHROOM UPPER CABINET SECTION (TYP)
3/4" = 1'-0"



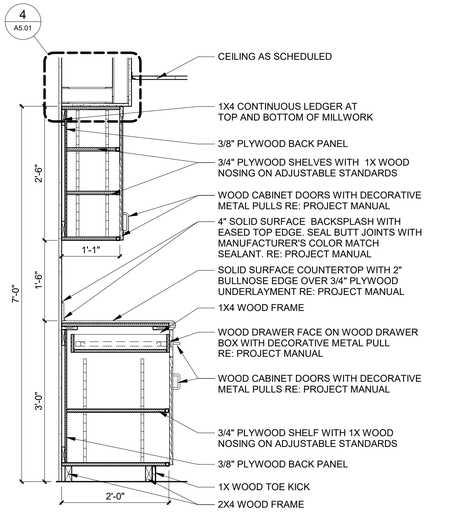
4 FURR DOWN @ KITCHEN 205
1" = 1'-0"



3 KITCHEN CABINET SECTION @ DW
3/4" = 1'-0"



2 KITCHEN CABINET SECTION @ SINK
3/4" = 1'-0"



1 KITCHEN CABINET SECTION (TYP)
3/4" = 1'-0"

0' 6" 1' 2'
SCALE: 1" = 1'-0"

0' 8" 16" 32"
SCALE: 3/4" = 1'-0"

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C167
STATE OF ARKANSAS
3/29/24

No.	Revision/Issue	Date	BY	APPD

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
MILLWORK AND INTERIOR DETAILS

DRAWN BY	HRS, BD, DR
LEAD DESIGNER	C&A
TECH REVIEWER	HRS
PROJECT NUMBER	NKAK 21-1034
DESIGNED BY	C&A
SHEET	A5.01
DATE	29 FEB. 2024
SCALE	AS NOTED

DOOR SCHEDULE - FIRST FLOOR

MARK	OPENING SIZE WIDTH	OPENING SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME GLAZING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE RATING	HARDWARE SET	NOTES
100-A	3'-0"	7'-0"	D	HM	P-4	GL-1	02	HM	P-4	GL-1	8 / A6.02 6 / A6.02	7 / A6.02 5 / A6.02	9 / A6.02 4 / A6.02		HW-05	
100-B	3'-0"	6'-8"	E	SCW	WD-1	----	ETR	HM	P-4	----	22 / A6.02	22 / A6.02	----		HW-06	
101-A	3'-0"	6'-8"	E	SCW	WD-1	----	ETR	HM	P-4	----	22 / A6.02	22 / A6.02	17 / A6.02		HW-10	1
102-A	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	14 / A6.02	13 / A6.02	12 / A6.02 SIM		HW-08	
103-A	3'-0"	6'-8"	F	SCW	WD-1	GL-3	ETR	HM	P-4	----	22 / A6.02	22 / A6.02	12 / A6.02		HW-09	
104-A	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	17 / A6.02		HW-10	
104-B	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	17 / A6.02		HW-10	
104-C	3'-0"	7'-0"	B	HM	P-4	----	ETR	HM	P-4	----	8 / A6.02	7 / A6.02	9 / A6.02 SIM		HW-11	
104-D	3'-0"	7'-0"	B	HM	P-4	----	ETR	HM	P-4	----	8 / A6.02	7 / A6.02	9 / A6.02 SIM		HW-11	
105-A	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	17 / A6.02		HW-12	1
106-A	3'-0"	6'-8"	G	HM	P-4	----	03	HM	P-4	----	16 / A6.02	15 / A6.02	17 / A6.02		HW-12	
107-A, B, C - 118-A, B, C	**REFER TO DOOR SCHEDULE - TYPICAL DORMITORY SUITE															
119-A	3'-0"	7'-0"	B	HM	P-4	----	03	HM	P-4	----	11 / A6.02	10 / A6.02	9 / A6.02		HW-11	
120-A	(2) 3'-0"	7'-0"	A	HM	P-4	----	01	HM	P-4	----	11 / A6.02	10 / A6.02	9 / A6.02		HW-14	
121-A	3'-0"	7'-0"	C	HM	P-4	GL-1	03	HM	P-4	----	8 / A6.02	7 / A6.02	9 / A6.02		HW-15	
121-B	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	19 / A6.02	18 / A6.02	----	60 MIN.	HW-16	
122-A	3'-0"	7'-0"	B	HM	P-4	----	03	HM	P-4	----	8 / A6.02	7 / A6.02	9 / A6.02		HW-11	
123-A	3'-0"	7'-0"	G	HM	P-4	----	04	HM	P-4	----	21 / A6.02	20 / A6.02	----		HW-12	
124-A, B, C - 127-A, B, C	**REFER TO DOOR SCHEDULE - TYPICAL DORMITORY SUITE															
128-A	3'-0"	7'-0"	B	HM	P-4	GL-1	02	HM	P-4	GL-1	8 / A6.02 6 / A6.02	7 / A6.02 5 / A6.02	9 / A6.02 4 / A6.02		HW-01	
128-B	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	14 / A6.02	13 / A6.02	12 / A6.02		HW-02	
128-C	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	----		HW-03	
129-A	3'-0"	7'-0"	B	HM	P-4	GL-1	02	HM	P-4	GL-1	8 / A6.02 6 / A6.02	7 / A6.02 5 / A6.02	9 / A6.02 4 / A6.02		HW-01	
129-B	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	14 / A6.02	13 / A6.02	12 / A6.02		HW-02	
129-C	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	----		HW-03	
130-A, B, C - 133-A, B, C	**REFER TO DOOR SCHEDULE - TYPICAL DORMITORY SUITE															

DOOR SCHEDULE - SECOND FLOOR

MARK	OPENING SIZE WIDTH	OPENING SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME GLAZING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE RATING	HARDWARE SET	NOTES
200-A	3'-0"	7'-0"	D	HM	P-4	GL-1	02	HM	P-4	GL-1	8 / A6.02 6 / A6.02	7 / A6.02 5 / A6.02	9 / A6.02 4 / A6.02		HW-05	
200-B	3'-0"	6'-8"	E	SCW	WD-1	----	ETR	HM	P-4	----	22 / A6.02	22 / A6.02	----		HW-06	
201-A	3'-0"	6'-8"	F	SCW	WD-1	GL-3	ETR	HM	P-4	GL-3	22 / A6.02	22 / A6.02	12 / A6.02		HW-09	
202-A	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	17 / A6.02		HW-10	
202-B	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	17 / A6.02		HW-10	
202-C	3'-0"	7'-0"	B	HM	P-4	----	ETR	HM	P-4	----	8 / A6.02	7 / A6.02	9 / A6.02		HW-11	
202-D	3'-0"	7'-0"	B	HM	P-4	----	ETR	HM	P-4	----	8 / A6.02	7 / A6.02	9 / A6.02		HW-11	
203-A	2'-8"	6'-8"	E	SCW	WD-1	----	ETR	HM	P-4	----	19 / A6.02 SIM	18 / A6.02 SIM	17 / A6.02		HW-12	
204-A	3'-0"	6'-8"	G	HM	P-4	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	----		HW-12	
205-A	3'-0"	7'-0"	F	SCW	WD-1	----	04	HM	P-4	----	19 / A6.02	18 / A6.02	----		HW-10	1
206-A, B, C - 219-A, B, C	**REFER TO DOOR SCHEDULE - TYPICAL DORMITORY SUITE															
220-A	3'-0"	7'-0"	C	HM	P-4	GL-1	03	HM	P-4	----	11 / A6.02	10 / A6.02	9 / A6.02		HW-15	
220-B	3'-0"	7'-0"	E	SCW	P-4	----	04	HM	P-4	----	19 / A6.02	18 / A6.02	----	60 MIN.	HW-16	
221-A	3'-0"	7'-0"	B	HM	P-4	----	03	HM	P-4	----	11 / A6.02	9 / A6.02 SIM			HW-11	
222-A	3'-0"	7'-0"	G	HM	P-4	----	04	HM	P-4	----	21 / A6.02	20 / A6.02	----		HW-12	
223-A, B, C - 234-A, B, C	**REFER TO DOOR SCHEDULE - TYPICAL DORMITORY SUITE															

DOOR SCHEDULE - THIRD FLOOR

MARK	OPENING SIZE WIDTH	OPENING SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME GLAZING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE RATING	HARDWARE SET	NOTES
300-A	3'-0"	7'-0"	D	HM	P-4	GL-1	02	HM	P-4	GL-1	8 / A6.02 6 / A6.02	7 / A6.02 5 / A6.02	9 / A6.02 4 / A6.02		HW-05	
300-B	3'-0"	6'-8"	E	SCW	WD-1	----	ETR	HM	P-4	----	22 / A6.02	22 / A6.02	----		HW-06	
301-A	3'-0"	6'-8"	F	SCW	WD-1	GL-3	ETR	HM	P-4	----	22 / A6.02	22 / A6.02	12 / A6.02		HW-09	
302-A	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	17 / A6.02		HW-10	
302-B	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	17 / A6.02		HW-10	
302-C	3'-0"	7'-0"	B	HM	P-4	----	ETR	HM	P-4	----	8 / A6.02	7 / A6.02	9 / A6.02		HW-11	
302-D	3'-0"	7'-0"	B	HM	P-4	----	ETR	HM	P-4	----	8 / A6.02	7 / A6.02	9 / A6.02		HW-11	
303-A	2'-8"	6'-8"	E	SCW	WD-1	----	ETR	HM	P-4	----	19 / A6.02 SIM	18 / A6.02 SIM	17 / A6.02		HW-12	
304-A	3'-0"	6'-8"	G	HM	P-4	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	----		HW-12	
305-A	3'-0"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	19 / A6.02 SIM	18 / A6.02 SIM	12 / A6.02		HW-10	1
306-A, B, C - 319-A, B, C	**REFER TO DOOR SCHEDULE - TYPICAL DORMITORY SUITE															
320-A	3'-0"	7'-0"	C	HM	P-4	GL-1	03	HM	P-4	----	11 / A6.02	10 / A6.02	9 / A6.02		HW-15	
320-B	3'-0"	7'-0"	E	SCW	P-4	----	04	HM	P-4	----	19 / A6.02 SIM	18 / A6.02 SIM	----	60 MIN.	HW-16	
321-A	3'-0"	7'-0"	B	HM	P-4	----	03	HM	P-4	----	11 / A6.02	10 / A6.02	9 / A6.02		HW-11	
322-A	3'-0"	7'-0"	G	HM	P-4	----	04	HM	P-4	----	21 / A6.02	20 / A6.02	----		HW-12	
323-A, B, C - 334-A, B, C	**REFER TO DOOR SCHEDULE - TYPICAL DORMITORY SUITE															

DOOR SCHEDULE - TYPICAL DORMITORY SUITE

MARK	OPENING SIZE WIDTH	OPENING SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME GLAZING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE RATING	HARDWARE SET	NOTES
000-A	3'-0"	7'-0"	B	HM	P-4	----	02	HM	P-4	GL-1A	8 / A6.02 6 / A6.02	7 / A6.02 5 / A6.02	9 / A6.02 4 / A6.02	----	HW-01	DOOR STC = 48
000-B	2'-8"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	14 / A6.02	13 / A6.02	12 / A6.02	----	HW-02	
000-C	2'-8"	7'-0"	E	SCW	WD-1	----	04	HM	P-4	----	16 / A6.02	15 / A6.02	----	----	HW-03	

ABBREVIATIONS

HM	HOLLOW METAL
SCW	SOLID CORE WITH WOOD VENEER
FV	FIELD VERIFY

DOOR & FRAME FINISH LEGEND

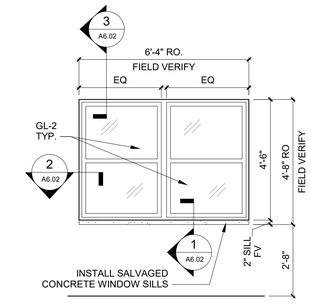
P-4	PAINT - SHERWIN WILLIAMS, SW7020 BLACK FOX
WD-1	WOOD STAIN - MINWAX, WILLOWBEND (MW431)

GLAZING LEGEND

GL-1	1" LAMINATED & TEMPERED INSULATED GLAZING.
GL-1A	2 1/2" LAMINATED & TEMPERED INSULATED GLAZING. STC = 45
GL-2	1" LAMINATED & INSULATED GLAZING.
GL-3	1/4" TEMPERED GLAZING

SMOKE RESISTIVE PARTITIONS

SR	DOORS IN SMOKE RESISTIVE PARTITIONS REQUIRE CLOSERS RE: LIFE SAFETY

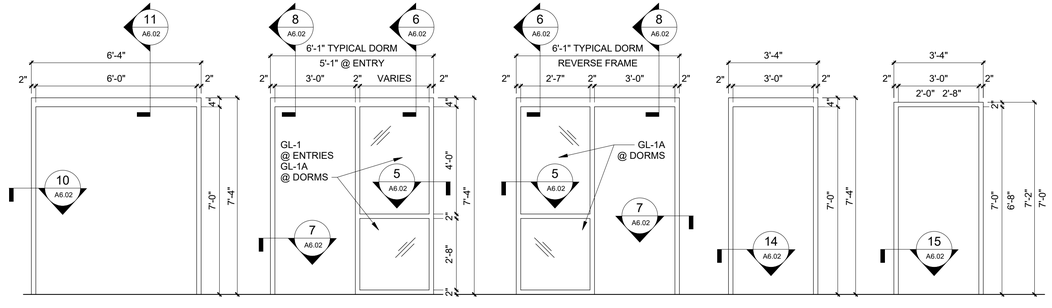


TYPE A

EXTERIOR SINGLE HUNG ALUMINUM WINDOW (PAIR) IN EXISTING MASONRY WALL
FINISH - ANODIZED DARK BRONZE

3 WINDOW ELEVATIONS

3/8" = 1'-0"



TYPE 01

HOLLOW METAL EXTERIOR FRAME (GALVANIZED)

TYPE 02

HOLLOW METAL EXTERIOR FRAME WITH SIDELITE (GALVANIZED)

TYPE 02-R

HOLLOW METAL EXTERIOR FRAME WITH SIDELITE (GALVANIZED)

TYPE 03

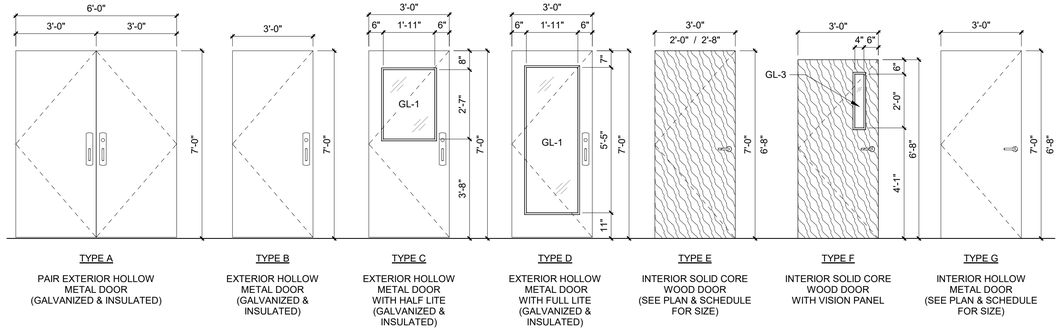
HOLLOW METAL EXTERIOR FRAME (GALVANIZED)

TYPE 04

HOLLOW METAL INTERIOR FRAME (SEE PLAN & SCHEDULE SIZE)

2 FRAME ELEVATIONS

3/8" = 1'-0"



TYPE A

PAIR EXTERIOR HOLLOW METAL DOOR (GALVANIZED & INSULATED)

TYPE B

EXTERIOR HOLLOW METAL DOOR (GALVANIZED & INSULATED)

TYPE C

EXTERIOR HOLLOW METAL DOOR WITH HALF LITE (GALVANIZED & INSULATED)

TYPE D

EXTERIOR HOLLOW METAL DOOR WITH FULL LITE (GALVANIZED & INSULATED)

TYPE E

INTERIOR SOLID CORE WOOD DOOR (SEE PLAN & SCHEDULE FOR SIZE)

TYPE F

INTERIOR SOLID CORE WOOD DOOR WITH VISION PANEL

TYPE G

INTERIOR HOLLOW METAL DOOR (SEE PLAN & SCHEDULE FOR SIZE)

1 DOOR ELEVATIONS

3/8" = 1'-0"

0' 1'-4" 2'-8" 5'-4"

SCALE: 3/8" = 1'-0"

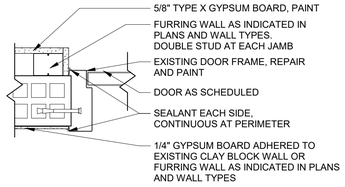
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

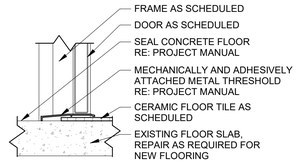
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REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C167
STATE OF ARKANSAS
3/12/24

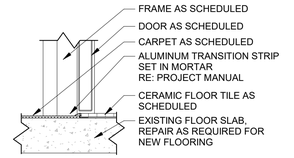
| | | | | | | | | | | | | | | |



22 INTERIOR HEAD/JAMB DETAIL @ EXISTING FRAMES
1 1/2" = 1'-0"

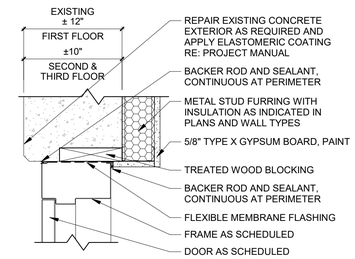


17 INTERIOR HMD TRANSITION SEALED CONCRETE TO CERAMIC TILE
1 1/2" = 1'-0"

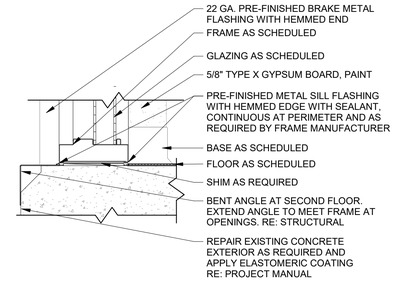


NOTE: REFER TO FINISH SCHEDULE FOR INSTANCES MARKED "SIM"

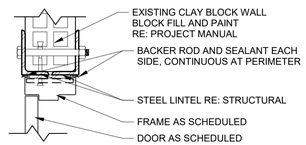
12 INTERIOR HMD TRANSITION CARPET TO CERAMIC TILE
1 1/2" = 1'-0"



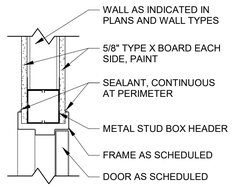
8 EXTERIOR HMD HEAD DETAIL
1 1/2" = 1'-0"



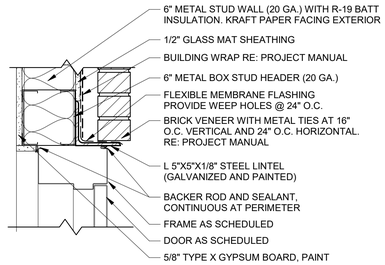
4 EXTERIOR HMD SIDELIGHT SILL DETAIL
1 1/2" = 1'-0"



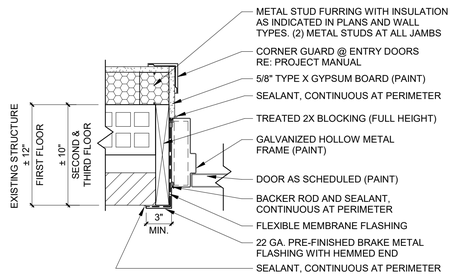
21 INTERIOR HMD HEAD DETAIL @ EXISTING BLOCK WALL
1 1/2" = 1'-0"



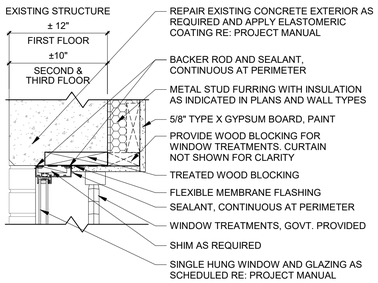
16 INTERIOR HMD HEAD DETAIL @ NEW INTERIOR WALL
1 1/2" = 1'-0"



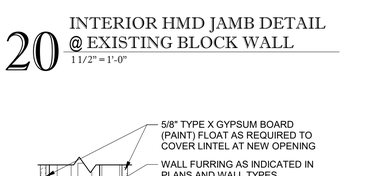
11 EXTERIOR HMD HEAD DETAIL
1 1/2" = 1'-0"



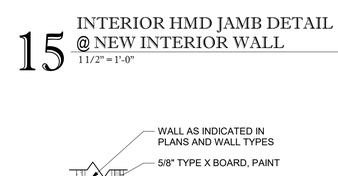
7 EXTERIOR HMD JAMB DETAIL
1 1/2" = 1'-0"



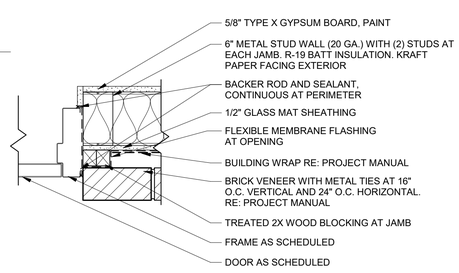
3 EXTERIOR WINDOW HEAD DETAIL
1 1/2" = 1'-0"



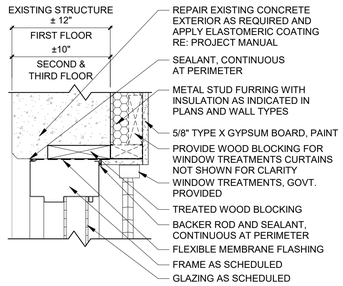
20 INTERIOR HMD JAMB DETAIL @ EXISTING BLOCK WALL
1 1/2" = 1'-0"



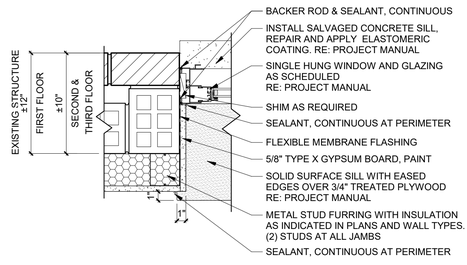
15 INTERIOR HMD JAMB DETAIL @ NEW INTERIOR WALL
1 1/2" = 1'-0"



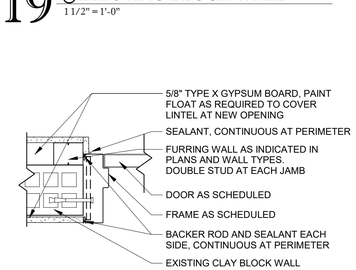
10 EXTERIOR HMD JAMB DETAIL
1 1/2" = 1'-0"



6 EXTERIOR HMD SIDELIGHT HEAD DETAIL
1 1/2" = 1'-0"

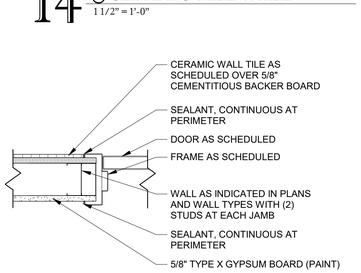


2 EXTERIOR WINDOW SILL DETAIL
1 1/2" = 1'-0"



NOTE: INSTANCES MARKED "SIM" MAY NOT INCLUDE STEEL LINTEL. REFER TO DOOR SCHEDULE

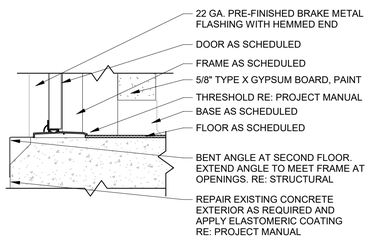
19 INTERIOR HMD HEAD DETAIL @ EXISTING BLOCK WALL
1 1/2" = 1'-0"



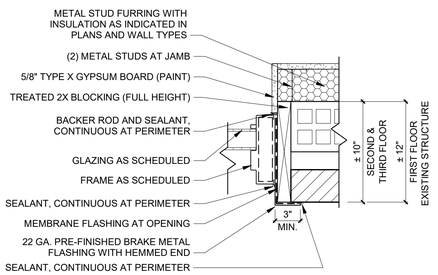
14 INTERIOR HMD HEAD DETAIL @ CERAMIC TILE WALL
1 1/2" = 1'-0"

18 INTERIOR HMD JAMB DETAIL @ EXISTING BLOCK WALL
1 1/2" = 1'-0"

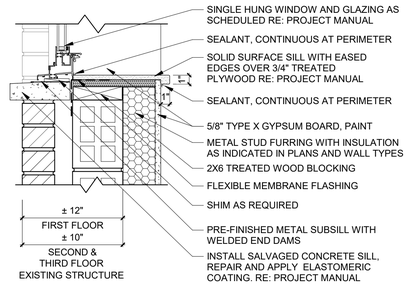
13 INTERIOR HMD JAMB DETAIL @ CERAMIC TILE WALL
1 1/2" = 1'-0"



9 EXTERIOR HMD SILL DETAIL
1 1/2" = 1'-0"



5 EXTERIOR HMD SIDELIGHT JAMB DETAIL
1 1/2" = 1'-0"



1 EXTERIOR WINDOW SILL DETAIL
1 1/2" = 1'-0"

0' 4" 8" 1'-4"

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

AIR MOBILITY COMMAND

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REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C167 — STATE OF ARKANSAS — 7/29/24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
DOOR AND WINDOW DETAILS

DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: A6.02
DATE: 29 FEB. 2024	50 OF 100
SCALE: AS NOTED	

ROOM FINISH SCHEDULE - FIRST FLOOR

NUMBER	NAME	FLOOR FINISH	BASE	WALL MATERIAL	WALL FINISH	CEILING MATERIAL	CEILING FINISH	MILLWORK	TOP, SILL, & BACKSPLASH	COMMENTS
100	ENTRY	CT-1	CT-1	TYPE X GYP BD	P-1, P-3 *	ACT-1	----	----	----	*P-3 AT ACCENT WALL RE: 1/A4.01
101	STORAGE	CT-1	CT-1	ETR CMU & TYPE X GYP BD	P-1	ACT-1	----	----	----	
102	ADA RESTROOM	CT-1	CT-1	CERAMIC TILE OVER CMT BD*	CT-3A, CT-3B, CT-3C*	TYPE X, MMR GYP BD	P-5E	----	----	*RE: INTERIOR ELEVATIONS FOR TILE PATTERN
103	DAY ROOM	CP-1	RB-1	TYPE X GYP BD	P-2, P-3 *	ACT-1, TYPE X GYP BD FURR DOWN	P-5	----	SS-1	*P-3 AT ACCENT WALL RE: 1/A4.01, SS-1 @ WINDOW SILLS
104	CORRIDOR	CT-1	CT-1	TYPE X GYP BD	P-1	ACT-1	----	----	----	
104A	UTILITY CORRIDOR	SC	RB-1	ETR CMU, NEW CMU, & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
104B	UTILITY CORRIDOR	SC	RB-1	ETR CMU, NEW CMU, & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
105	JANITOR	SC	RB-1	ETR CMU & TYPE X, MMR GYP BD & FRP*	P-1E	OPEN TO STRUCTURE	----	----	----	*RE: 1/A4.01 FOR FRP LOCATIONS AND WIDTH
106	ELECTRICAL	SC	RB-1	ETR CMU & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
107-118	**REFER TO ROOM FINISH SCHEDULE - TYPICAL DORMITORY SUITE									
119	MECHANICAL	SC	RB-1	ETR CMU & TYPE X GYP BOARD	P-1	OPEN TO STRUCTURE	----	----	----	
120	MECHANICAL	SC	RB-1	ETR CMU & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
121	LAUNDRY	CT-1	CT-1	TYPE X, MMR GYP BD & CT OVER CMT BD*	P-1E, CT-2*	ACT-1	----	----	----	*CT-2 AT WET WALL RE: 1 & 2/A4.01, AND 1/A4.02
122	RISER ROOM	SC	RB-1	TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
123	COM	SC	RB-1	ETR CMU & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
124-133	**REFER TO ROOM FINISH SCHEDULE - TYPICAL DORMITORY SUITE									

ROOM FINISH SCHEDULE - SECOND FLOOR

NUMBER	NAME	FLOOR FINISH	BASE	WALL MATERIAL	WALL FINISH	CEILING MATERIAL	CEILING FINISH	MILLWORK	TOP, SILL, & BACKSPLASH	COMMENTS
200	ENTRY	CT-1	CT-1	TYPE X GYP BD	P-1, P-3 *	ACT-1	----	----	----	*P-3 AT ACCENT WALL RE: 2/A4.01
201	DAYROOM	CP-1	RB-1	TYPE X GYP BD	P-2, P-3*	ACT-1, TYPE X GYP BD FURR DOWN	P-5	----	SS-1	*P-3 AT ACCENT WALL RE: 2/A4.01
202	CORRIDOR	CT-1	CT-1	TYPE X GYP BD	P-1	ACT-1	----	----	----	
202A	UTILITY CORRIDOR	SC	RB-1	ETR CMU, NEW CMU, & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
202B	UTILITY CORRIDOR	SC	RB-1	ETR CMU, NEW CMU, & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
203	JANITOR	SC	RB-1	ETR CMU & TYPE X, MMR GYP BD & FRP*	P-1E	OPEN TO STRUCTURE	----	----	----	*RE: 2/A4.01 FOR FRP LOCATIONS AND WIDTH
204	ELECTRICAL	SC	RB-1	ETR CMU & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
205	KITCHEN	CT-1	CT-1	TYPE X GYP BD & CT OVER CMT BD*	P-1, P-3 *, CT-3B*	ACT-1, TYPE X GYP BD FURR DOWN	P-1	WD-1	SS-1	*P-3 AT AT MILLWORK WALLS, *CT-3B AT RANGE RE: 2/A4.01, 10 & 11/A4.03
206-219	**REFER TO ROOM FINISH SCHEDULE - TYPICAL DORMITORY SUITE									
220	LAUNDRY	CT-1	CT-1	TYPE X, MMR GYP BD & CT OVER CMT BD*	P-1E, CT-2*	ACT-1	----	----	----	
221	STORAGE	SC	RB-1	ETR & TYPE X GYP BD	P-1	ETR CONCRETE	P-5	----	----	
222	COM	SC	RB-1	ETR CMU, NEW CMU, & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
223-234	**REFER TO ROOM FINISH SCHEDULE - TYPICAL DORMITORY SUITE									

ROOM FINISH SCHEDULE - THIRD FLOOR

NUMBER	NAME	FLOOR FINISH	BASE	WALL MATERIAL	WALL FINISH	CEILING MATERIAL	CEILING FINISH	MILLWORK	TOP, SILL, & BACKSPLASH	COMMENTS
300	ENTRY	CT-1	CT-1	TYPE X GYP BD	P-1	ACT-1	----	----	----	
301	DAYROOM	CP-1	RB-1	TYPE X GYP BD	P-2, P-3*	ACT-1, TYPE X GYP BD FURR DOWN	P-5	----	SS-1	*P-3 AT ACCENT WALL RE: 1/A4.02
302	CORRIDOR	CT-1	CT-1	TYPE X GYP BD	P-1	ACT-1	----	----	----	
302A	UTILITY CORRIDOR	SC	RB-1	ETR CMU, NEW CMU, & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
302B	UTILITY CORRIDOR	SC	RB-1	ETR CMU, NEW CMU, & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
303	JANITOR	SC	RB-1	ETR CMU & TYPE X GYP BD / FRP*	P-1E	OPEN TO STRUCTURE	----	----	----	*RE: 1/A4.02 FOR FRP LOCATIONS AND WIDTH
304	ELECTRICAL	SC	RB-1	ETR CMU & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
305	STORAGE	SC	RB-1	ETR CMU & TYPE X GYP BD	P-1	ETR CONCRETE	P-5	----	----	
306-319	**REFER TO ROOM FINISH SCHEDULE - TYPICAL DORMITORY SUITE									
320	LAUNDRY	CT-1	CT-1	TYPE X, MMR GYP BD & CT OVER CMT BD*	P-1	ACT-1	----	----	----	
321	STORAGE	SC	RB-1	ETR CMU & TYPE X GYP BD	P-1	ETR CONCRETE	P-5	----	----	
322	COM	SC	RB-1	ETR CMU, NEW CMU, & TYPE X GYP BD	P-1	OPEN TO STRUCTURE	----	----	----	
323-334	**REFER TO ROOM FINISH SCHEDULE - TYPICAL DORMITORY SUITE									

ROOM FINISH SCHEDULE - TYPICAL DORMITORY SUITE

NUMBER	NAME	FLOOR FINISH	BASE	WALL MATERIAL	WALL FINISH	CEILING MATERIAL	CEILING FINISH	MILLWORK	TOP, SILL, & BACKSPLASH	COMMENTS
000	DORM	CP-2	RB-1	TYPE X GYP BD	P-1*	ETR CONCRETE	P-5	----	----	*P-3 AT ACCENT WALL RE: 4 & 7/A4.02
000-B	BATH	CT-1	CT-3MULTI*	CT OVER CMT BD	CT-3A, CT-3B, CT-3C*	TYPE X GYP BD	P-5E	WD-1	SS-1	*RE: 5-8/A4.03 INTERIOR ELEVATIONS FOR TILE PATTERN
000-C	CLOSET	CP-2	RB-1	TYPE X GYP BD	P-1	TYPE X GYP BD	P-5	WP-1	----	
APPLICABLE TO ALL DORMITORY SUITES										

GENERAL FINISH NOTES

1. ALL GYPSUM BOARD, WITH THE EXCEPTION OF UTILITY CORRIDORS, COMMUNICATION, MECHANICAL, AND RISER ROOMS, RECEIVE LEVEL 4 FINISH WITH KNOCKDOWN FINISH.
2. GYPSUM BOARD CEILINGS RECEIVE LEVEL 4 SMOOTH FINISH.
3. EXISTING SLAB CEILINGS TO BE REPAIRED AS REQUIRED AND RECEIVE A KNOCKDOWN FINISH.
4. REPAIR MINOR IMPERFECTIONS IN FLOOR SLABS WITH NON-SHRINK GROUT AND PREPARE FLOOR SLABS TO RECEIVE NEW FLOORING. LARGER OPENINGS ARE TO BE INFILLED AS INDICATED ON STRUCTURAL DRAWINGS.
5. EXISTING CONCRETE ROOF SLAB HAS MULTIPLE OPENINGS FROM PREVIOUS RENOVATIONS. CONTRACTOR TO VERIFY QUANTITY AND SIZES OF OPENINGS AND INFILL AS INDICATED ON STRUCTURAL DRAWINGS TO CREATE A SOLID SLAB.

FLOOR FINISH LEGEND

CP-1	CARPET TILE - TARKETT, BLOCKADE, CEDAR DECK (54603), 18X36, ASHLAR PATTERN INSTALL
CP-2	CARPET TILE - TARKETT, BLOCKADE, CAMELBACK (68203), 18X36, ASHLAR PATTERN INSTALL
CT-1	CERAMIC TILE - ANATOLIA, ASPEN, PAPER BIRCH, 6x36
SC	SEALED CONCRETE - SEAL KRETE, SS-10 10% SILANE-SILOXANE SEALER

BASE FINISH LEGEND

CT-1	CERAMIC TILE - ANATOLIA, ASPEN, PAPER BIRCH, 6x36. PROVIDE ALUMINUM EDGING TRIM EQUAL TO SCHLUTER JOLLY AT TILE BASE RE: PROJECT MANUAL
CT-2	CERAMIC TILE - CROSSVILLE, COLOR BLOX 2.0, BLUE SUEDE SHOES (BCX13) PROVIDE ALUMINUM COVE BASE EQUAL TO SCHLUTER DILEX-AHK FOR WALL TO FLOOR TRANSITION.
CT-3MULTI	CERAMIC TILE - CROSSVILLE, COLOR BY NUMBERS, COORDINATE COLOR WITH WALL COLOR AND PATTERN. PROVIDE ALUMINUM COVE BASE EQUAL TO SCHLUTER DILEX-AHK FOR WALL TO FLOOR TRANSITION.
RB-1	RUBBER BASE - JOHNSONITE 4" TRADITIONAL WALL BASE, PEPPERCORN TB1

WALL FINISH LEGEND

CG-1	CORNER GUARD - KOROGARD, SEASHELL (OZ)
FRP-1	FIBER REINFORCED POLYMER PANELS, 8'-0" HIGH - NUDO, PEARL (750)
CT-2	CERAMIC TILE - CROSSVILLE, COLOR BLOX 2.0, BLUE SUEDE SHOES (BCX13), 12X12
CT-3A	CERAMIC TILE - CROSSVILLE, COLOR BY NUMBERS, EDGE OF SEVENTEEN GLOSS (WT17), 4X12
CT-3B	CERAMIC TILE - CROSSVILLE, COLOR BY NUMBERS, NINE LIVES LOST GLOSS (WT09), 4X12
CT-3C	CERAMIC TILE - CROSSVILLE, COLOR BY NUMBERS, OVERTURE GLOSS (WT18), 4X12
P-1	PAINT - SHERWIN WILLIAMS, SW6147 PANDA WHITE
P-1E	EPOXY PAINT - SHERWIN WILLIAMS, SW6147 PANDA WHITE
P-2	PAINT - SHERWIN WILLIAMS, SW7633 TAUPE TONE
P-3	PAINT - SHERWIN WILLIAMS, SW9141 WATERLOO

CEILING FINISH LEGEND

ACT-1	ACOUSTIC CEILING TILE - ARMSTRONG, CORTEGA, TEGULAR, 24x24 (WHITE) WITH ARMSTRONG, PRELUDE SUSPENDED CEILING SYSTEM (WHITE) RE: PROJECT MANUAL
P-5	PAINT - SHERWIN WILLIAMS, SW6147 PANDA WHITE
P-5E	EPOXY PAINT - SHERWIN WILLIAMS, SW6147 PANDA WHITE

MILLWORK FINISH LEGEND

SS-1	SOLID SURFACE - DURASEIN, HARMONY (DM5011)
WD-1	WOOD STAIN - MINWAX, WILLOWBEND (MW431)
WP-1	WOOD PAINT - SHERWIN WILLIAMS, SW6147 PANDA WHITE

FINISH SCHEDULE NOTES

ETR	EXISTING TO REMAIN
CMU	CLAY MASONRY UNIT OR CONCRETE MASONRY UNIT - NEW IS CONCRETE MASONRY UNITS
GYP BD	GYPSUM BOARD, TYPE X
CMT BD	CEMENTITIOUS BACKER BOARD
MMR	MOISTURE AND MOLD RESISTANT
CT	CERAMIC TILE
TG	TILE GROUT - CUSTOM BUILDING PRODUCTS, #172 URBAN PUTTY

AIR MOBILITY COMMAND

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REGISTERED ARCHITECT
Clements & Associates Architecture, Inc.
No. C167
STATE OF ARKANSAS
7/29/24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

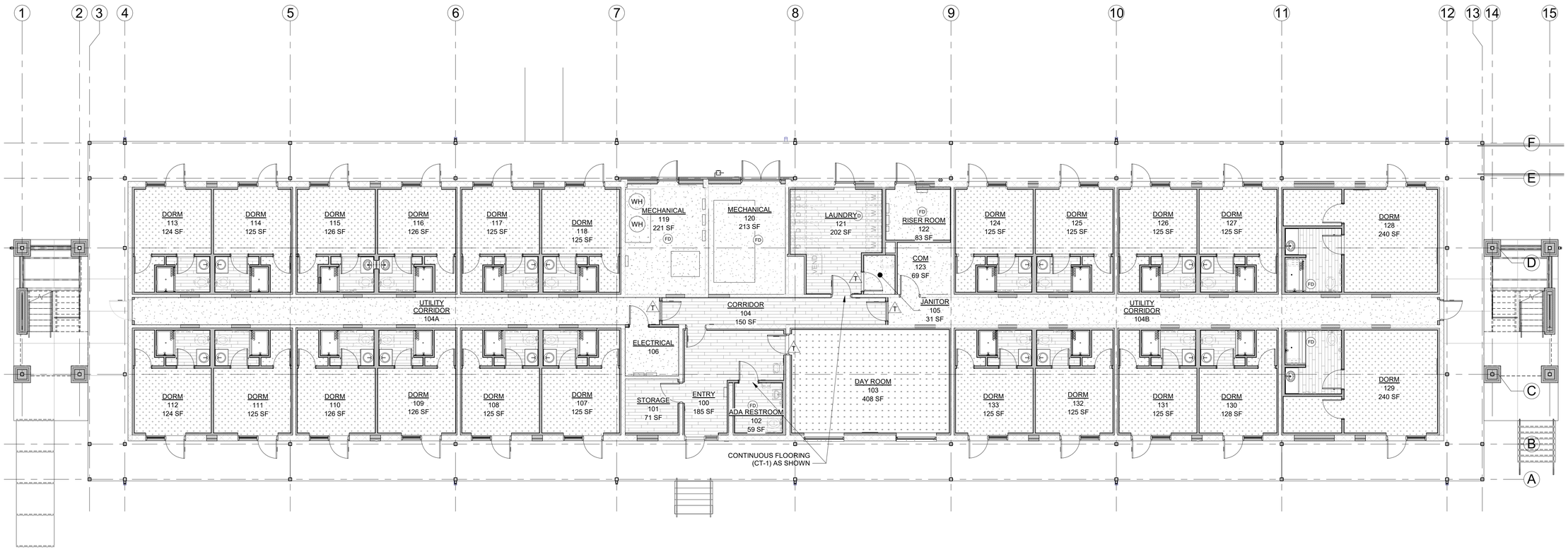
SHEET TITLE
FINISH SCHEDULES AND LEGENDS

DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: A7.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	51 OF 100

FLOOR FINISH LEGEND

- NO NEW FINISH — CLEAN EXISTING AFTER THE COMPLETION OF THE WORK
- SEALED CONCRETE (SC) — RE: FINISH SCHEDULE
- CARPET (CP-1) — RE: FINISH SCHEDULE
- CARPET (CP-2) — RE: FINISH SCHEDULE
- CERAMIC TILE (CT-1) — RE: FINISH SCHEDULE
- THRESHOLD — RE: PROJECT MANUAL
- FLOOR DRAIN — RE: PLUMBING

PROVIDE THRESHOLD AS SPECIFIED FOR CERAMIC TILE TO CARPET TRANSITION AT DORM ROOMS.



1 FINISH FLOOR PLAN - FIRST FLOOR
1/8" = 1'-0"

NORTH

0' 4' 8' 16'

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

AIR MOBILITY COMMAND

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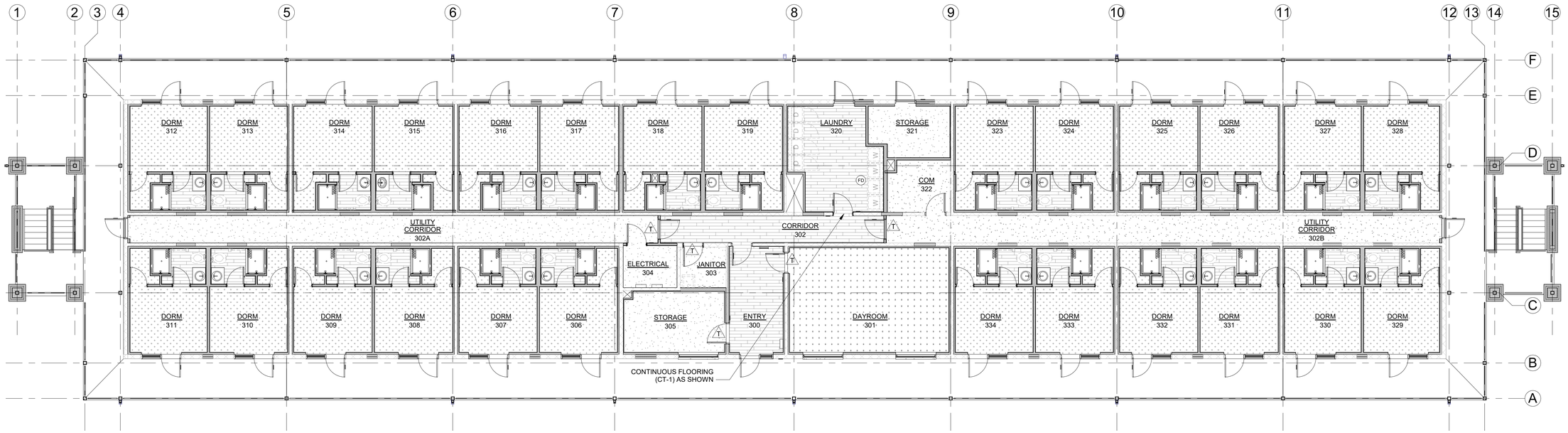
REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. — No. C167 — STATE OF ARKANSAS — 3/29/24

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FIRST FLOOR FINISH PLAN AND LEGEND

DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: IN1.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	52 OF 100



FLOOR FINISH LEGEND

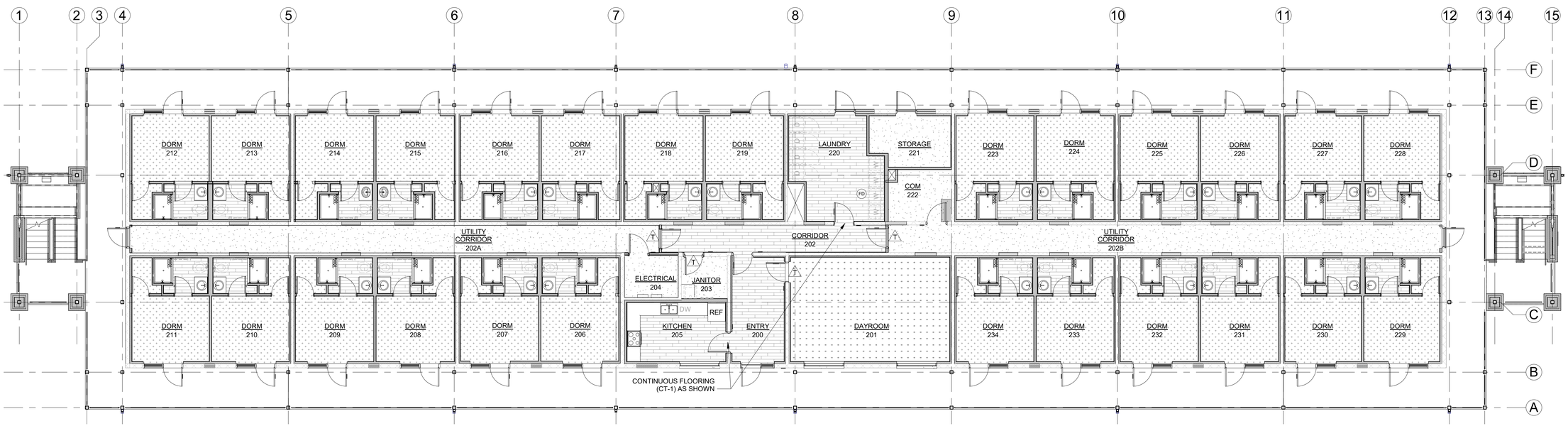
- NO NEW FINISH — CLEAN EXISTING AFTER THE COMPLETION OF THE WORK
- SEALED CONCRETE (SC) — RE: FINISH SCHEDULE
- CARPET (CP-1) — RE: FINISH SCHEDULE
- CARPET (CP-2) — RE: FINISH SCHEDULE
- CERAMIC TILE (CT-1) — RE: FINISH SCHEDULE
- THRESHOLD — RE: PROJECT MANUAL
- FLOOR DRAIN — RE: PLUMBING

PROVIDE THRESHOLD AS SPECIFIED FOR CERAMIC TILE TO CARPET TRANSITION AT DORM ROOMS.

2 FINISH FLOOR PLAN - THIRD FLOOR

1/8" = 1'-0"

NORTH



1 FINISH FLOOR PLAN - SECOND FLOOR

1/8" = 1'-0"

NORTH

0' 4' 8' 16'

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

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

CLEMENTS & ASSOCIATES
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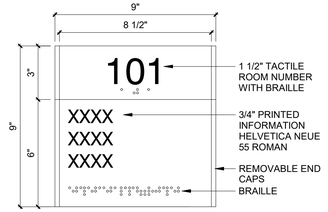
REGISTERED ARCHITECT — Clements & Associates Architecture, Inc. No. C167 — STATE OF ARKANSAS — 2/29/24

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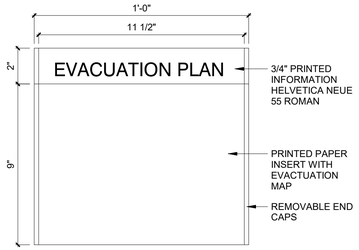
SHEET TITLE
SECOND & THIRD FLOOR FINISH PLANS, AND LEGEND

DRAWN BY	HRS, BD, DR
LEAD DESIGNER	C&A
TECH REVIEWER	HRS
PROJECT NUMBER	NKAK 21-1034
DESIGNED BY	C&A
SHEET	IN1.02
DATE	29 FEB. 2024
SCALE	AS NOTED



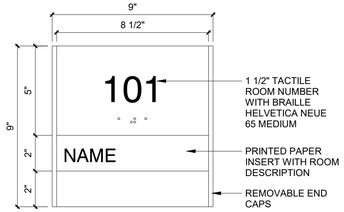
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ACRYLIC SURFACE MOUNTED INTERIOR & EXTERIOR SIGN:
TYPICAL ROOM SIGN WITH ROOM NUMBER, ROOM NAME, AND BRAILLE



Ⓑ

ACRYLIC SURFACE MOUNTED INTERIOR SIGN:
WITH SLEEVE FOR PAPER INSERT EVACUATION MAP
ATTACH WITH VELCRO



Ⓒ

ACRYLIC SURFACE MOUNTED EXTERIOR SIGN:
WITH DORM SUITE NUMBER AND INTERCHANGEABLE NAME PLATE

SIGNAGE LEGEND

REFER TO "SIGNAGE TYPES" DETAIL

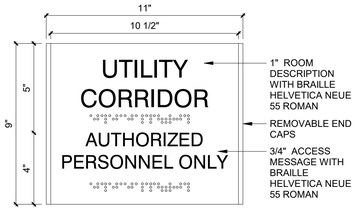
- Ⓐ WALL MOUNTED ROOM SIGN
- Ⓑ DOOR MOUNTED EVACUATION SIGN
- Ⓒ DOOR MOUNTED ROOM SIGN
- Ⓓ WALL MOUNTED BUILDING IDENTIFICATION SIGN
- Ⓔ DOOR MOUNTED UTILITY CORRIDOR SIGN - AUTHORIZED PERSONNEL ONLY
- Ⓕ WALL MOUNTED RESTROOM SIGN
- Ⓖ WALL MOUNTED STAIR/EXIT SIGN

NOTE: ALL BRAILLE TO BE GRADE 2



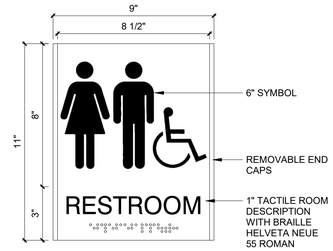
Ⓓ

METAL WALL MOUNTED EXTERIOR BUILDING SIGN:
BUILDING IDENTIFICATION
ATTACH WITH MOUNTING BRACKETS



Ⓔ

ACRYLIC SURFACE MOUNTED EXTERIOR SIGN:



Ⓕ

ACRYLIC SURFACE MOUNTED INTERIOR SIGN:
UNISEX ACCESSIBLE RESTROOM

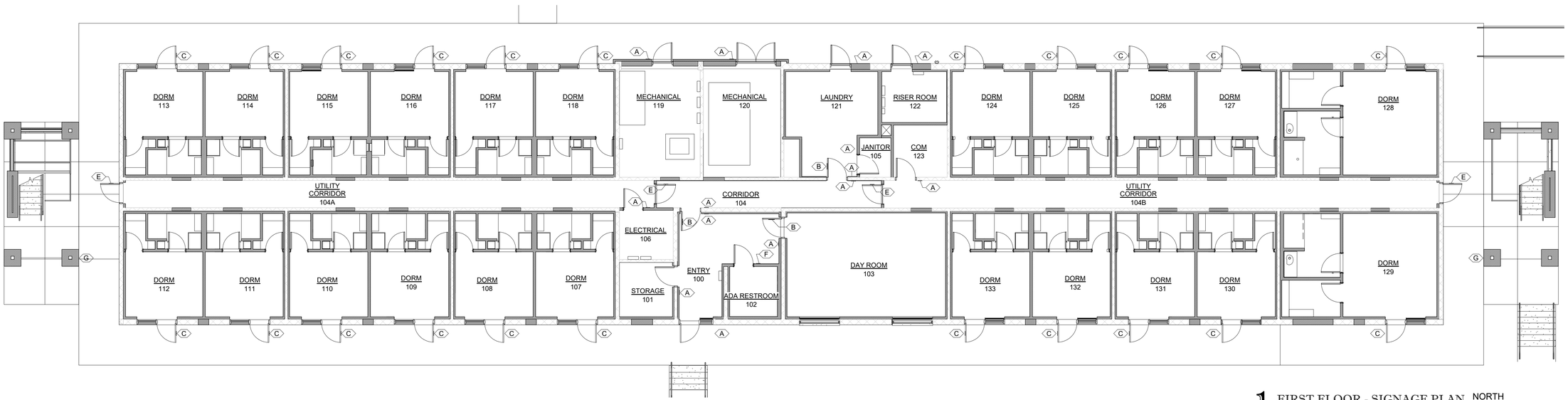


Ⓖ

METAL WALL MOUNTED EXTERIOR STAIRWAY LIFE SAFETY INFORMATION

2 SIGNAGE TYPES

3" = 1'-0"



1 FIRST FLOOR - SIGNAGE PLAN

1/8" = 1'-0"

NORTH

0' 2" 4" 8"
SCALE: 3" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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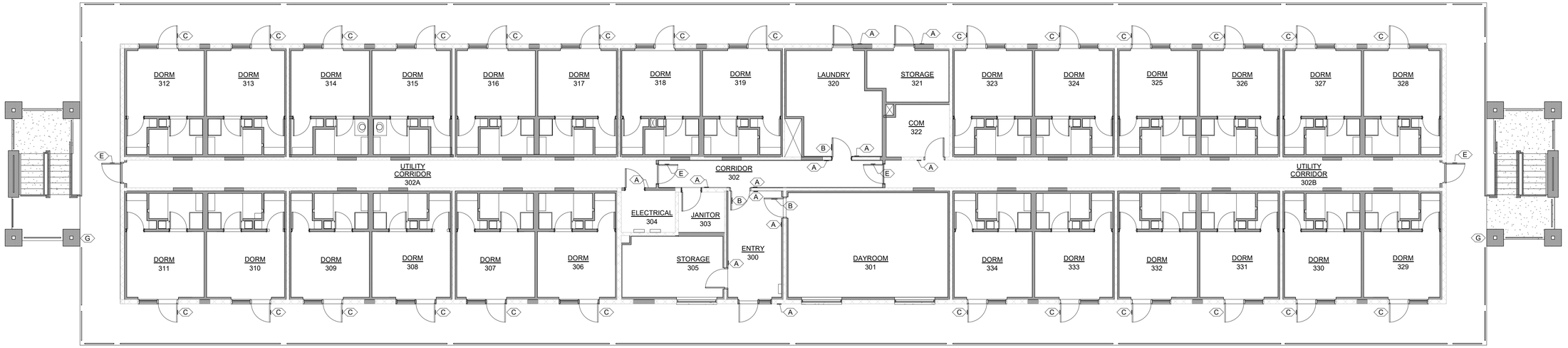
REGISTERED ARCHITECT
Clements & Associates Architecture, Inc
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PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

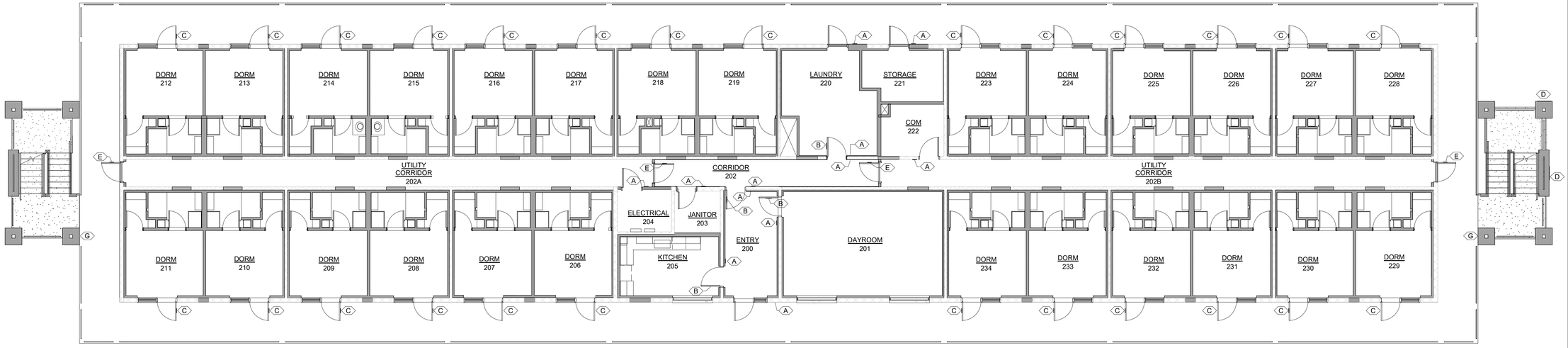
SHEET TITLE
FIRST FLOOR SIGNAGE PLAN, SIGN DETAILS AND LEGEND

DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: IN2.01
DATE: 29 FEB. 2024	54 OF 100
SCALE: AS NOTED	



2 THIRD FLOOR SIGNAGE PLAN
1/8" = 1'-0"

NORTH



1 SECOND FLOOR SIGNAGE PLAN
1/8" = 1'-0"

NORTH

0' 4' 8' 16'

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

AIR MOBILITY COMMAND

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PROJECT TITLE
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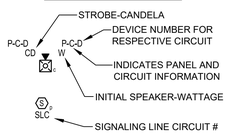
SHEET TITLE
SECOND AND THIRD FLOOR SIGNAGE PLANS

DRAWN BY: HRS, BD, DR	LEAD DESIGNER: C&A
TECH REVIEWER: HRS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: C&A	SHEET: IN2.02
DATE: 29 FEB. 2024	
SCALE: AS NOTED	55 OF 100

FIRE ALARM NOTES:

FIRE ALARM & MASS NOTIFICATION LEGEND	
CD W W	4" SPEAKER/ STROBE WITH CLEAR LENS, WHITE TRIM, AND "ALERT" TEXT. CANDELA AND INITIAL WATTAGE INDICATED. SMALL "c" = CEILING MOUNT. SMALL "w" = WALL MOUNT
CD	CEILING MOUNTED CLEAR STROBE, WHITE TRIM, "ALERT" TEXT. CANDELA INDICATED
W S	CEILING MOUNT 4" SPEAKER WITH INITIAL WATTAGE TAP INDICATED
W S	WALL MOUNT MASS NOTIFICATION / FIRE ALARM SPEAKER AT ~96" TO TOP TO MATCH SPEAKER/STROBES. WP=WEATHER PROOF BACKBOX AND SPEAKER.
15	WALL MOUNT CLEAR STROBE, WHITE TRIM, "ALERT" TEXT, AT ~96" TO TOP.
S	SMOKE DETECTOR (PHOTOELECTRIC), HEAT MULTI-CRITERIA. SMALL "w" = WALL MOUNT, OTHERWISE CEILING MOUNT. SOUNDER BASE NOT REQUIRED AS ENTIRE BUILDING WILL EVACUATE UPON ALARM.
CO	CARBON MONOXIDE DETECTOR, NOT INCORPORATED WITH SMOKE DETECTOR.
S	DUCT SMOKE DETECTOR; S=SUPPLY, R=RETURN INCLUDE RELAYS, TUBES, KEYED TEST SWITCH IF NEEDED PER NFPA 72, ETC.
TXT	LED TEXT SIGN, NOT SCROLLING, ANNOUNCEMENT / EVACUATE, FOR MNS MESSAGES LOCATED ABOVE/ ADJACENT TO DOOR. MINIMAL SECONDARY POWER FOR POWER BLIPS (7AH).
F	MANUAL PULL STATION 48" AFF TO TOP OF BOX. WP = WEATHER PROOF, EXTERIOR RATED
WF	FLOW SWITCH MODULE
TS	TAMPER SWITCH MODULE WITH COVER TAMPER
DH	DOOR HOLD-OPEN MODULE AND ASSEMBLY. PROVIDE 24 VOLT DC HOLD OPEN ASSEMBLY.
RM	RELAY / CONTROL MODULES AS NEEDED
MM	MONITOR / CONTROL MODULES AS NEEDED
SS	EXTERNAL SURGE PROTECTION WITH TROUBLE MONITOR
LP HP	MODULES FOR LOW PRESSURE AND HIGH PRESSURE ON DRY-PIPE SYSTEM
F	ELECTRIC WATER FLOW BELL, 24V, LOCATED ABOVE FDC AT 96" ABOVE GRADE. ON DEDICATED NAC CIRCUIT TO ALARM DURING WATER FLOW.
W	DIRECTIONAL LOUD SPEAKER WITH VARIABLE OUTPUT WATTAGES. LISTED FOR WET LOCATIONS. PROVIDE LIQUID TIGHT FLEX WITH DRIP LEG. WATTAGE INDICATED
NOTE: THE PANEL SYMBOLS BELOW ARE NOT IN COMPLIANCE WITH NFPA 170 AS WE FEEL IT IS MORE IMPORTANT THAT THEY BE SIZED TO SCALE OF TYPICAL PANELS OF THEIR TYPE TO ENSURE ADEQUATE WALL SPACE IS PROVIDED FOR EQUIPMENT. NFPA SYMBOLS WOULD NOT PROVIDE THIS NECESSARY SCALE.	
FACU	AUTOMATIC INTELLIGENT, ADDRESSABLE FIRE ALARM CONTROL PANEL. USER MAINTAINABLE.
TRC	MONACO BTX-F TRANCEIVER
NAC	NOTIFICATION APPLIANCE CIRCUIT STROBE/ TEXT PANEL CAPABLE OF 4 CLASS "A" CIRCUITS
LOC	LOCAL OPERATOR CONTROL PANEL
ACU	HEAD-END VOICE PANEL WITH AMPLIFIERS IF NOT INCORPORATED IN FACU.
MNSA	MASS NOTIFICATION BOOSTER AMPLIFIER. VERIFY NUMBER OF AMPS PER CIRCUITS AND WATTS OF FINAL PRODUCT.
CAB	LOCKED AS-BUILT CABINET SIZED TO HOLD SHOP DRAWINGS, DATA SHEETS, MANUALS FOR PANELS.

DEVICE INFORMATION



SCOPE OF PROJECT:

1. PROVIDE NEW ADDRESSABLE VOICE FIRE ALARM AND MASS NOTIFICATION SYSTEM AS OUTLINED.

FIRE ALARM AND MNS GENERAL NOTES:

1. SYSTEM SHALL COMPLY WITH THE FOLLOWING AT MINIMUM:
   - 1.1. NFPA 72, 2022 EDITION
   - 1.2. UFC 3-600-01 CHANGE 6, 2021
   - 1.3. UFC 4-021-01, 2010
   - 1.4. LITTLE ROCK FACILITY STANDARDS
   - 1.5. UPDATES FOR VISUAL NOTIFICATION FROM ECB 2018-17
2. CLEAR STROBES WITH "ALERT" WILL BE USED FOR VISUAL NOTIFICATION.
3. DIRECTIONAL LOUDSPEAKERS SIMILAR TO WHEELOCK STH-15 SHALL BE USED WHERE INDICATED AND AIMED IN THE GENERAL DIRECTION INDICATED.
4. ADDRESSABLE NOTIFICATION APPLIANCES ARE NOT PERMITTED.
5. COMBINATION NOTIFICATION / SIGNALING CIRCUITS FOR SPEAKERS AND/OR STROBES ARE NOT PERMITTED.
6. ALL STROBES SHALL BE LISTED AND INTENDED FOR OPERATION AT 24 VOLTS WITH NOMINAL 24 VOLT POWER SUPPLIES.
7. USER SHALL BE PROVIDED WITH ALL MANUALS, SOFTWARE, PASSWORDS, PASSWORD KEYS, ETC. SO THAT OTHER QUALIFIED PERSONNEL CAN FULLY SUPPORT AND MAINTAIN THE SYSTEM. (1)
8. RUN NEW MINIMUM 3/4" PVC CONDUIT FROM BUILDING TO PIV WITH NEW TAMPER SWITCH ON PIV. CONDUIT MAY COME UP OUTSIDE BUILDING UNDER SIDEWALK AND TURN INTO BUILDING WITH "LB" FITTING. ENSURE CABLE IS LISTED FOR WET LOCATION.
9. CONTRACTOR MUST UTILIZE LRAFB STANDARD MESSAGES AND PRIORITY. CONFIRM MESSAGES PRIOR TO PROGRAMMING.

INTELLIGIBILITY CONSIDERATIONS:

1. INTELLIGIBILITY MUST BE MEASURED AND SPEAKER TAPS ADJUSTED AS NECESSARY TO ACHIEVE THE BEST SCORE.
2. INITIAL SPEAKER WATTAGE LEVELS ARE INDICATED ON DRAWINGS. CONTRACTOR MUST ALLOW FOR FIELD ADJUSTMENTS TO ESTABLISH THE BEST INTELLIGIBILITY WATTAGE / TAP SETTINGS FOR EACH RESPECTIVE SPACE BASED ON TESTING.
3. ALERT TONES MUST BE 15 DBA ABOVE AMBIENT AND MUST BE MEASURED TO SATISFY AUDIBILITY LEVELS PER NFPA 72.
   - 3.1. SLEEPING ROOMS MUST HAVE ALERT TONE > 75 DBA.
4. VOICE MESSAGES MUST BE RECORDED AND AMPLIFIED TO DELIVER THE BEST INTELLIGIBILITY LEVELS PER NFPA 72.
5. DURING STIPA TESTING, THE INPUT SIGNAL MUST BE INJECTED INTO THE AMPLIFIER VIA AUX AUDIO INPUT SO THAT THE RESULTING OUTPUT SIGNAL IS APPROXIMATELY THE SAME VOLUME LEVEL AS PRE-RECORDED MESSAGES. THUS, THE VOICE MESSAGE DBA LEVEL MUST BE MEASURED AT A PARTICULAR LOCATION AND THEN THE STIPA INPUT ADJUSTED TO RESULT IN THE SAME SPEAKER OUTPUT LEVEL. THIS CORRELATES THE STIPA INTELLIGIBILITY READINGS AS CLOSE AS FEASIBLE TO ACTUAL PRE-RECORDED LEVELS.
6. INTELLIGIBILITY READINGS SHALL BE TAKEN THROUGHOUT REPRESENTATIVE AREAS AND DOCUMENTED ON DRAWINGS WITH BOTH THE AUDIBLE LEVELS AND CIS SCORES.

AC POWER FOR FIRE ALARM / MNS EQUIPMENT:

1. WHERE MORE THAN ONE AC CIRCUIT IS REQUIRED, PROVIDE A DEDICATED AC SUB-PANEL IN ACCORDANCE WITH UFC 3-520-01, 3-2.7.
2. SUB-PANEL SHALL SIZED FOR MINIMUM OF SIX 20A CIRCUITS DEDICATED TO FIRE PROTECTION AND LIFE SAFETY SYSTEMS.
3. SUB-PANEL SHALL BE SERVED BY LOCK-ON BREAKER IN UPSTREAM DISTRIBUTION EQUIPMENT.
4. NO MORE THAN 3 FA/MNS PANELS ON ONE 20A CIRCUIT.

DOOR SIGNAGE:
PROVIDE SIGNAGE ON EXTERIOR OF RISER ROOM INDICATING "FIRE ALARM AND SPRINKLER RISER"

ACCESS CONTROL:
NO ACCESS CONTROL MUST PREVENT UNRESTRICTED EGRESS FROM ANY AREA. ALL SYSTEMS MUST COMPLY WITH NFPA 101 AND NFPA 72.

PANEL PROGRAMMING:
FIRE ALARM PANEL MUST BE PROGRAMMED USING ACTUAL ROOM NUMBERS. COORDINATE WITH FACILITY ROOM SIGNAGE.

CIRCUIT NOTES:

1. FIRE ALARM AND MNS NAC/SLC CIRCUITS MUST BE CLASS "A" WITH NO "T" TAPS ALLOWED.
2. PATHWAY SURVIVABILITY MUST BE LEVEL 1.
3. FIRE ALARM AND MNS CIRCUITS TO BE SOLID COPPER FPL/FPLR/FPLP, OR TFFN/THHN UNLESS OTHERWISE RECOMMENDED BY THE MFG. UNDERGROUND (SUCH AS TO PIV) MUST BE LISTED FOR WET LOCATION SUCH AS THWN. (1)
4. ALL FIELD-WIRING COLORS MUST BE THE SAME THROUGHOUT THE CIRCUIT TO WHICH IT IS CONNECTED. DEVELOP A COLOR SCHEME AND SHOW ON SHOP DRAWINGS, SUCH AS DIFFERENT COLORS FOR EACH CIRCUIT.
5. ALL WIRING MUST EITHER TERMINATE AT THE FIRE ALARM CONTROL PANEL, REMOTE POWER SUPPLY, OTHER CABINETS OR DEVICE.
   - 5.1. ALL DEVICES MUST UTILIZE SCREW TERMINALS.
   - 5.2. PULL ALL CONDUCTORS SPLICE FREE.
   - 5.3. THE USE OF WIRE NUTS, CRIMPED CONNECTORS, OR TWISTING OF CONDUCTORS IS PROHIBITED.
   - 5.4. DO NOT USE TERMINAL STRIPS IN THE FIELD WIRING, SUCH AS IN-BETWEEN DEVICES.
   - 5.5. TERMINATION AT A DEVICE MUST BE A COMPLETE BREAK IN THE WIRE, DO NOT LOOP THE WIRE AROUND THE SCREW.
6. UNLESS INDICATED OTHERWISE, THE FOLLOWING WIRE SIZE MUST BE USED:
   - 6.1. SLC AND IDC: MINIMUM 18 AWG
   - 6.2. NAC STROBE AND TEXT SIGNS: MINIMUM 14 AWG.
   - 6.3. SPEAKER: MINIMUM 16 AWG
   - 6.4. REMOTE ANNUNCIATOR, LOC DATA, TEXT SIGN CONTROL (RS485) PER MFG RECOMMENDATIONS FOR DISTANCES OF PROJECT. (1)
7. STROBE CIRCUITS AND SPEAKER CIRCUITS TO BE CALCULATED AS SHOWN. AN ADDITIONAL 15'+ TO BE ADDED TO EACH DEVICE DISTANCE TO ACCOUNT FOR ANTICIPATED DROPS AND LOOPS IN JUNCTION BOXES (DOWN/BACK). IN ADDITION, VOLTAGE CALCS TO PROVIDE A SAFETY FACTOR OF AT LEAST 1 VOLT USING POINT-TO-POINT.
   - 7.1. CONTRACTOR MUST PROVIDE VOLTAGE DROP CALCS FOR THEIR PARTICULAR PRODUCTS. THIS MUST INCLUDE SPEAKER AND STROBE CALCULATIONS.
   - 7.2. VOLTAGE FOR STROBES MUST START AT 20.4 VOLTS AND MUST NOT DROP BELOW 17 VOLTS ACCOUNTING FOR TOTAL CIRCUIT PATH (OUT / BACK, AND DROPS / ELEVATION CHANGES).
   - 7.3. EACH 6 FOOT FLEX ADDS 28' PER DROP (DOWN & BACK WITH LOOPS).
8. 70 VOLT SPEAKER CIRCUITS MUST BE USED DUE TO CIRCUIT LENGTHS.
   - 8.1. SPEAKER dB CALCULATIONS TO BE PERFORMED ACCOUNTING FOR DOUBLE THE WATTAGE INDICATED ON FLOOR PLAN. THIS IS TO ACCOUNT FOR FIELD ADJUSTMENTS AND SPARE CAPACITY.
   - 8.2. IN NO CASE ARE SPEAKER CIRCUITS TO BE LOADED TO EXCEED A 5% DROP IN VOLTAGE PER CALCULATIONS WITH DOUBLE ANTICIPATED WATTAGE USED IN CALCS.
9. SIGNALING LINE CIRCUITS MAY BE RUN WITH OTHER FIRE ALARM AND MNS CIRCUITS AS LONG AS THERE IS NO HUM OR OTHER INTERFERING NOISE OVER THE SPEAKERS IMPACTING SLEEPING RESIDENTS.
10. LOC CIRCUITS AND/OR CIRCUITS BETWEEN CONTROL PANELS (SUCH AS RS485, VOICE, ETC.) MUST BE IN RACEWAYS SEPARATE FROM SLC AND NAC.
11. MINIMUM 3/4" EMT RED CONDUIT IS REQUIRED FOR ALL CIRCUITS, UNLESS INDICATED ON DRAWINGS TO HAVE MINIMUM 1".
12. FLEXIBLE METALLIC CONDUIT (FMC) MAY BE USED FOR DROPS TO DEVICES (SUCH AS IN CEILINGS) TO A MAXIMUM OF 6' EACH.
    - 12.1. A SINGLE DROP MUST BE PROVIDED DOWN/BACK TO DEVICE. DO NOT LOOP DROPS TO DEVICES.
13. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LTMC) AND FITTINGS MUST BE USED ON THE EXTERIOR OR WET LOCATIONS (SUCH AS FOR SPEAKERS).
13. FLEXIBLE DROPS ARE NOT REQUIRED TO BE RED.
14. UNLESS INDICATED, FIRE ALARM AND MNS CONDUITS AND BACK BOXES MUST BE RED DIPPED / PAINTED BY MFG.
    - 14.1. WIRE TROUGHS AND LARGER JUNCTION BOXES MAY BE FIELD PAINTED RED.
    - 14.2. COVERS MAY BE FIELD PAINTED RED.
    - 16.3. EXPOSED CONDUITS MUST BE PAINTED TO MATCH WALL / CEILING FINISH AND LABELED WITH A RED 3/4" BAND ON EACH SIDE OF A WALL AND EVERY 20'. THE INSIDE COVER OF PULL BOXES MUST BE LABELED AS "FIRE ALARM" WITH THE INTERIOR OF THE BOX PAINTED RED.
17. WIRE TROUGHS (GUTTERS) MUST BE PROVIDED ABOVE PANELS WHEN THERE ARE MORE THAN ONE PANEL AT A LOCATION.
    - 17.1. TROUGHS SHOULD BE ABOVE CEILINGS IN FINISHED AREAS WITH MINIMUM CONDUITS BETWEEN PANELS AND TROUGHS.
    - 17.2. 120VAC CIRCUITS MUST NOT SHARE CONDUITS OR BE RUN IN THE SAME WIRE TROUGH AS LOW VOLTAGE CIRCUITS (<71 VOLTS).
18. ALL CONDUIT MUST BE CONCEALED, UNLESS REQUIRED TO BE RUN IN OPEN EXPOSED AREAS.
19. MINIMUM 25 PERCENT SPARE AMPERAGE MUST BE PROVIDED ON EACH CIRCUIT OF POWER SUPPLIES.
20. MINIMUM 50% SPARE CAPACITY MUST BE PROVIDED ON AMPLIFIER PANELS AND CIRCUITS.
21. RACEWAY FILL MUST BE IN ACCORDANCE WITH NFPA 70. FORTY (40) PERCENT FILL MUST NOT BE EXCEEDED.
22. PROVIDE SPARE CIRCUITS AS INDICATED.

LABELING BATTERIES:

1. EVERY CABINET THAT HAS BACKUP BATTERIES MUST HAVE A LABEL THAT IS PROMINENTLY DISPLAYED JUST ABOVE BATTERIES INDICATING THE VOLTAGE AND AMP-HOUR OF BATTERIES REQUIRED IN THAT CABINET BASED ON CALCULATIONS.
2. EXAMPLE: "TWO-12-VOLT 7-AMP HOUR BATTERIES".
3. BATTERIES MUST HAVE MFG DATE PER NFPA 72, NOT DATE OF INSTALLATION.
4. NEW BATTERIES MUST HAVE BEEN MANUFACTURED WITHIN 6 MONTHS OF OCCUPANCY.

DOOR SIGNAGE:

1. COORDINATE BETWEEN TRADES TO PROVIDE SIGNAGE ON RISER ROOM DOOR THAT STATES "FIRE ALARM AND SPRINKLER RISER".
2. LETTERING OF SIGN TO BE MINIMUM 2" HIGH.
3. SIGN TO BE DOT GRADE ALUMINUM / STENCILING TO PREVENT FADING.
4. PROVIDE WHITE LETTERING ON RED BACKGROUND.

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Registered Professional Engineer - Fire Protection
CERTIFICATE NO. 37345
SCOTT WADE LACEY
ARIZONA, USA
02/29/2024

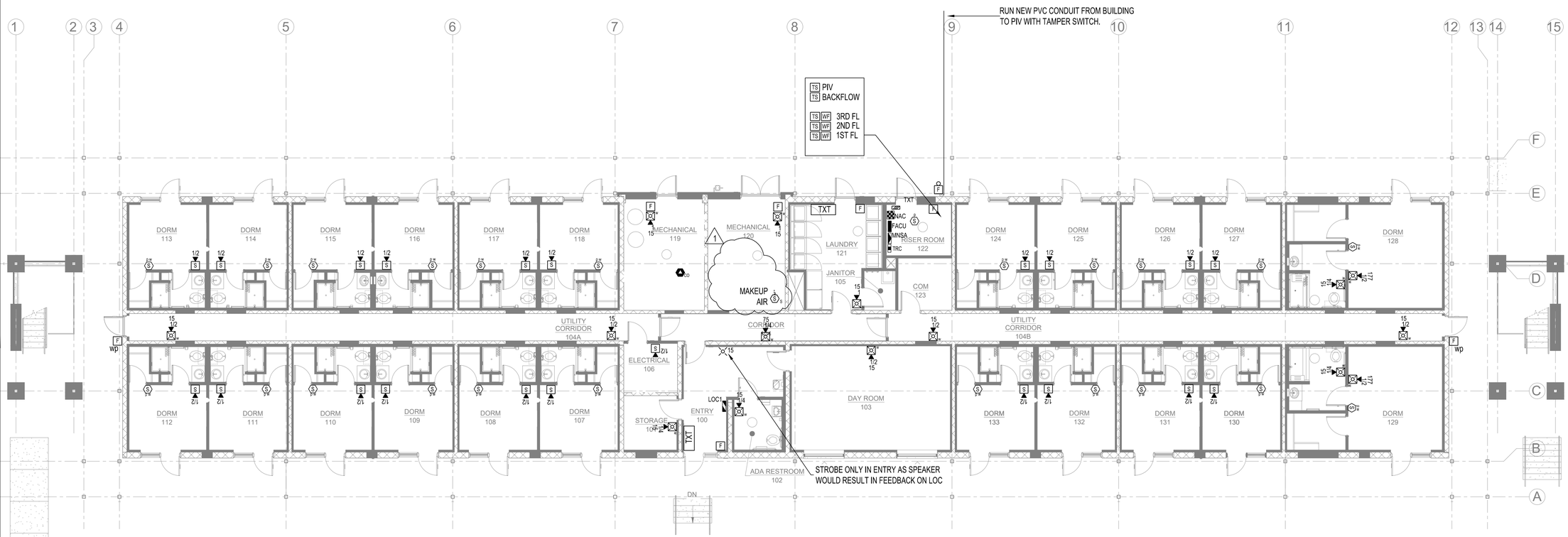
Lacey Fire Protection Engineering
WWW.LACEYFPE.COM

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FIRE ALARM & MNS NOTES

DRAWN BY: SL	LEAD DESIGNER: SL
TECH REVIEWER: SL	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: SL	SHEET: FA1.00
DATE: 29 FEB. 2024	
SCALE: AS NOTED	58 OF 100



1 FIRE ALARM AND MASS NOTIFICATION - FIRST FLOOR
1/8" = 1'

NORTH

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ARKANSAS

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PHONE: 501-375-3380
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Registered Professional Engineer (Fire Protection)
CERTIFICATE NO. 37345
SCOTT WADE LACEY
02/29/2024

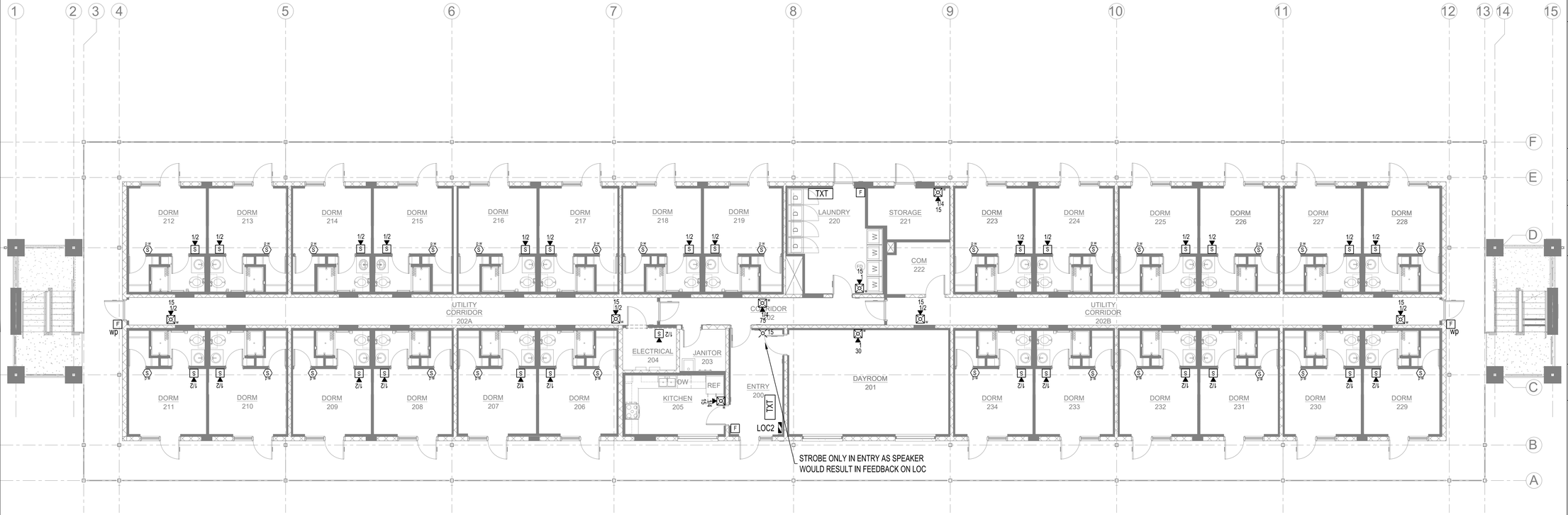
Lacey Fire Protection Engineering
WWW.LACEYFPE.COM

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FIRE ALARM & MNS - FIRST FLOOR PLAN

DRAWN BY: SL	LEAD DESIGNER: SL
TECH REVIEWER: SL	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: SL	SHEET: FA1.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	59 OF 100



1 FIRE ALARM AND MASS NOTIFICATION - SECOND FLOOR
1/8" = 1'

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ARIZONA, USA
02/29/2024

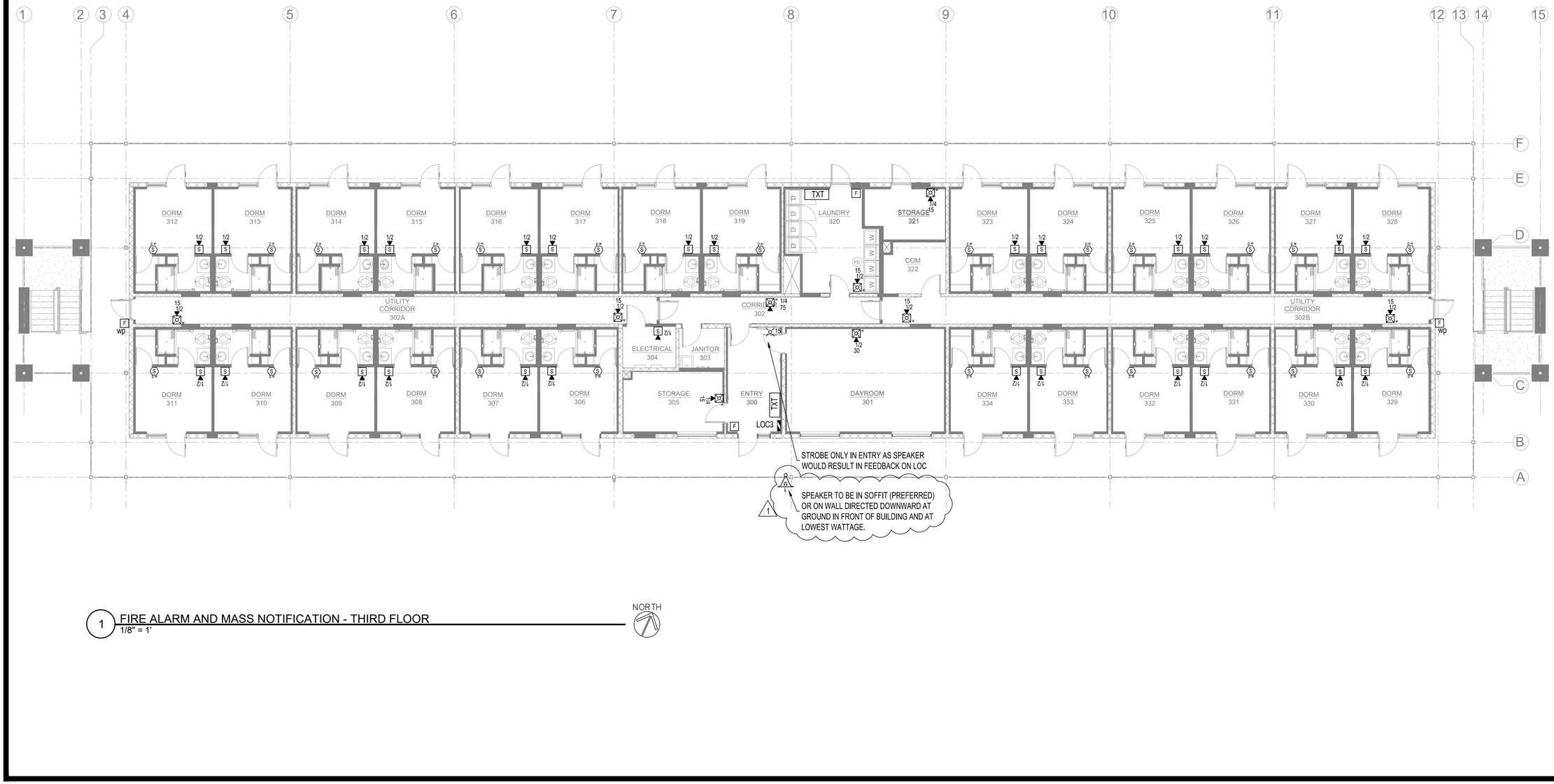
Lacey Fire Protection Engineering
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No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FIRE ALARM & MNS - SECOND FLOOR PLAN

DRAWN BY: SL	LEAD DESIGNER: SL
TECH REVIEWER: SL	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: SL	SHEET: FA1.02
DATE: 29 FEB. 2024	
SCALE: AS NOTED	60 OF 100



1 FIRE ALARM AND MASS NOTIFICATION - THIRD FLOOR
1/8" = 1'

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HGL Construction

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No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FIRE ALARM & MNS - THIRD FLOOR PLAN

DRAWN BY: SL	LEAD DESIGNER: SL
TECH REVIEWER: SL	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: SL	SHEET: FA1.03
DATE: 29 FEB. 2024	
SCALE: AS NOTED	61 OF 100

GENERAL SPRINKLER SCOPE:

1. THIS IS A DESIGN-BUILD PROJECT.
2. REPLACE ENTIRE SPRINKLER SYSTEM FROM FLOOR FLANGE UP.
3. SPRINKLERS IN ACCORDANCE WITH NFPA 13.
4. RESIDENTIAL AREAS PROTECTED PER NFPA 13 4-HEAD. OTHER AREAS AS INDICATED.
5. ROOF FRAMING IS BEING REPLACED WITH NON-COMBUSTIBLE TRUSS SYSTEM. AS SUCH, ATTIC SPRINKLERS WILL NOT BE PROVIDED.
6. IF THERE IS ANY REMAINING ASPHAULT / TAR FROM OLD ROOFING THAT CANNOT BE REMOVED, IT WILL BE COVERED WITH MINERAL WOOL BATT INSULATION TO PROVIDE ENCASEMENT.

KITCHEN SUPPRESSION SYSTEM:

1. IN ACCORDANCE WITH UFC 3-600-01, 4-15.2.2, A RANGE HOOD SUPPRESSION SYSTEM IS NOT BEING PROVIDED AS FACILITY IS SPRINKLERED.

FIRE FLOW TEST RESULTS:
DATE: 1/18/2023
By: SCOTT LACEY, FPE
LOCATION: MAIN BEHIND BUILDING
STATIC: 69 PSI
RESIDUAL: 60 PSI FLOWING 1,186 GPM

PERFORMANCE CRITERIA:

1. RESIDENTIAL SLEEPING ROOMS SHALL BE PROTECTED WITH A MAX 4-HEAD DESIGN PER NFPA 13 FOR RESIDENTIAL AREAS.
2. BATHROOMS < 55 FT2 WILL NOT BE SPRINKLERED.
3. ALL HEADS SHALL BE CENTER OF TILE IN SUSPENDED TILE SYSTEMS.
4. CALCULATIONS SHALL INCLUDE 8 PSI FOR BACKFLOW PREVENTION ASSEMBLY.
5. VELOCITIES SHALL NOT EXCEED LIMITS OF UFC 3-600-01.
6. PROVIDE AUXILIARY DRAINS FOR TRAPPED SECTIONS OF PIPE. SHALL DISCHARGE WITH FITTINGS IN ACCORDANCE WITH NFPA 13.
7. FLEXIBLE SPRINKLER DROPS ARE ALLOWED WHEN FRICTION LOSS OF EACH DROP IS INCLUDED.

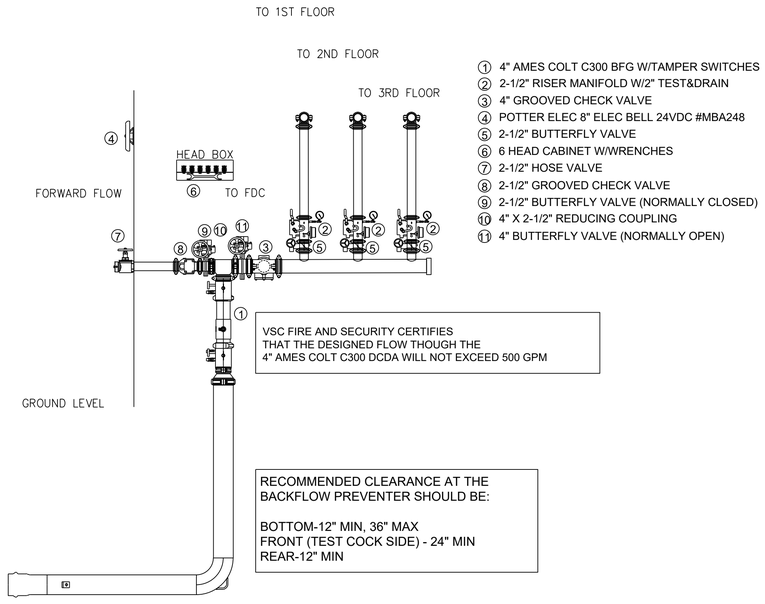
FDC SIGNAGE:
PROVIDE DOT GRADE METAL SIGN WITH WHITE LETTERING ON RED BACKGROUND WITH MINIMUM 4" HIGH LETTERS FOR "FDC" AND LOCATE ABOVE FDC.

FIRE SPRINKLER NOTES:

1. SYSTEM TO COMPLY WITH NFPA 13, 2022; UFC 3-600-01 CH6 MAY 2021.
2. AN NFPA 13 4-HEAD DESIGN WILL BE UTILIZED IN SLEEPING AREAS.
3. COMMON AREAS TO BE PROTECTED PER HC1 LIGHT HAZARD.
4. MECHANICAL, STORAGE, AND LAUNDRY SPACES TO BE PER HC2 ORDINARY HAZARD.
5. CPVC PIPE WILL BE USED IN ACCORDANCE WITH STRICT LIMITATIONS FOR BEING EXPOSED IN MECHANICAL AND UTILITY CHASE SPACES. THIS INCLUDES PIPE BEING RUN TIGHT TO CEILING SURFACE AND NOT SUSPENDED.
6. OPEN, NON-CONDITIONED, NON-COMBUSTIBLE STAIRS AND BREEZEWAYS WILL NOT BE SPRINKLERED DUE TO FREEZE POTENTIAL, CHALLENGES WITH REPLACING DRY-BARREL HEADS EVERY 10 YEARS, AND THE LACK OF FUEL SOURCE IN THE STAIRS.
7. BUILDING WILL BE SERVED BY ONE WET-PIPE RISER WITH FLOOR ZONE VALVES AND WATER FLOW SWITCHES FOR EACH FLOOR.
8. SPRINKLER PIPE IN EXPOSED AREAS MUST BE PAINTED / LABELED IN ACCORDANCE WITH UFC 3-600-01, 9-6.8.2 WITH 3" STENCILS.
9. POST INDICATOR VALVE IS EXISTING TO REMAIN.
10. PROVIDE NEW TAMPER SWITCH AND CONDUIT / MONITORING.
11. 175 PSI PRESSURE RELIEF SHALL BE PROVIDED ON EACH SPRINKLER RISER AND DOWNSTREAM OF ANY CHECK VALVES.
12. AIR RELEASE VENTS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
13. MINIMUM OF 3' CLEARANCE SHALL BE PROVIDED IN FRONT OF EACH ISOLATION VALVE.
14. ALL AUXILIARY DRAINS SHALL BE READILY ACCESSIBLE AND DRAIN TO AN APPROVED LOCATION. DRAINS SHALL BE IDENTIFIED ON DRAWINGS.
15. SPRINKLER PIPING, FITTINGS, AND SPRINKLERS SHALL NOT BE LOCATED ABOVE NON-MOVABLE ELECTRONIC EQUIPMENT / RACKS. COORDINATE WITH ELECTRICAL SHEETS FOR ANTICIPATED LOCATIONS.
8. RUN NEW MINIMUM 3/4" PVC CONDUIT FROM BUILDING TO PIV WITH NEW TAMPER SWITCH ON PIV. CONDUIT MAY COME UP OUTSIDE BUILDING UNDER SIDEWALK AND TURN INTO BUILDING WITH "LB" FITTING. ENSURE CABLE IS LISTED FOR WET LOCATION.

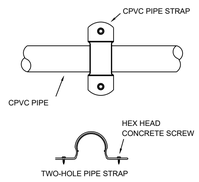
DOOR SIGNAGE:

1. COORDINATE BETWEEN TRADES TO PROVIDE SIGNAGE ON RISER ROOM DOOR THAT STATES "FIRE ALARM AND SPRINKLER RISER".
2. LETTERING OF SIGN TO BE MINIMUM 2" HIGH.
3. SIGN TO BE DOT GRADE ALUMINUM / STENCILING TO PREVENT FADING.
4. PROVIDE WHITE LETTERING ON RED BACKGROUND.



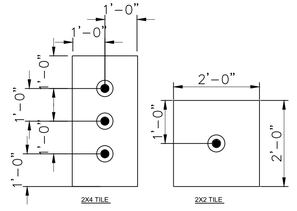
① 4" AMES COLT C300 BFG W/TAMPER SWITCHES
② 2-1/2" RISER MANIFOLD W/2" TEST&DRAIN
③ 4" GROOVED CHECK VALVE
④ POTTER ELEC 8" ELEC BELL 24VDC #MBA248
⑤ 2-1/2" BUTTERFLY VALVE
⑥ 6 HEAD CABINET W/WRENCHES
⑦ 2-1/2" HOSE VALVE
⑧ 2-1/2" GROOVED CHECK VALVE
⑨ 2-1/2" BUTTERFLY VALVE (NORMALLY CLOSED)
⑩ 4" X 2-1/2" REDUCING COUPLING
⑪ 4" BUTTERFLY VALVE (NORMALLY OPEN)

1 FS.00 SPRINKLER RISER DETAIL
SCALE: NTS



PHD CPVC PIPE STRAP
HANGER NO. 01

2 FS.00 CPVC PIPE STRAP
SCALE: NTS



3 FS.00 CENTER OF TILE DETAIL
SCALE: NTS

AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
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Registered Professional Engineer (Fire Protection) CERTIFICATE NO. 37345 SCOTT WADE LACEY ARIZONA, USA 02/29/2024

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No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FIRE SPRINKLER NOTES AND DETAILS

DRAWN BY: SL	LEAD DESIGNER: SL
TECH REVIEWER: SL	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: SL	SHEET: FS1.00
DATE: 29 FEB. 2024	
SCALE: AS NOTED	62 OF 100

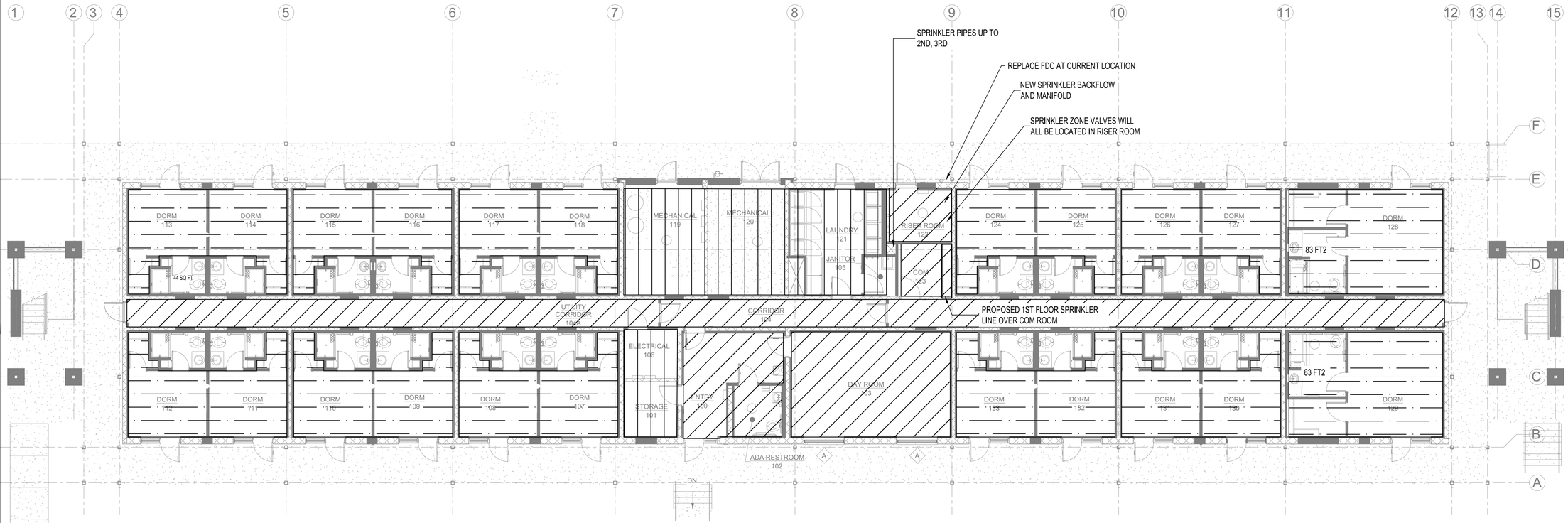
SPRINKLER DENSITY:

LIGHT HAZARD - 1.0 / 1,500 FT2 WITH 250 GPM HOSE. QUICK RESPONSE HEADS.

RESIDENTIAL NFPA 13, 4-HEAD. BATHROOMS <55 FT2 NOT SPRINKLERED. RESIDENTIAL HEADS, SIDEWALL AND PENDANT.

ORDINARY HAZARD - 2.0 / 2,500 OR ROOM / AREA RATED MINIMUM 1-HR. QUICK RESPONSE.

COMBUSTIBLE MATERIALS / CONSTRUCTION ARE TO BE REMOVED FROM ATTIC SO THAT NO ATTIC SPRINKLERS ARE BEING PROVIDED.



1 FIRE SPRINKLER - FIRST FLOOR
1/8" = 1'

NORTH

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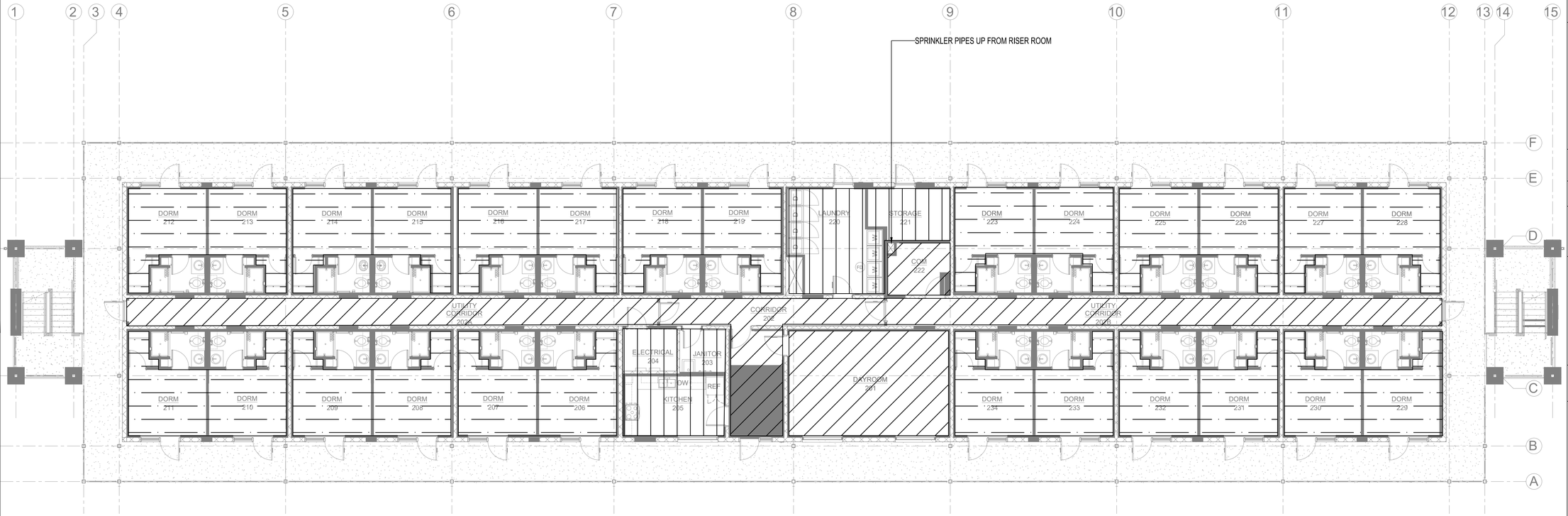
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No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FIRE SPRINKLER - FIRST FLOOR PLAN

DRAWN BY SL	LEAD DESIGNER SL
TECH REVIEWER SL	PROJECT NUMBER NKAK 21-1034
DESIGNED BY SL	SHEET FS1.01
DATE 29 FEB. 2024	
SCALE AS NOTED	63 OF 100



1 FIRE SPRINKLER - SECOND FLOOR
1/8" = 1'

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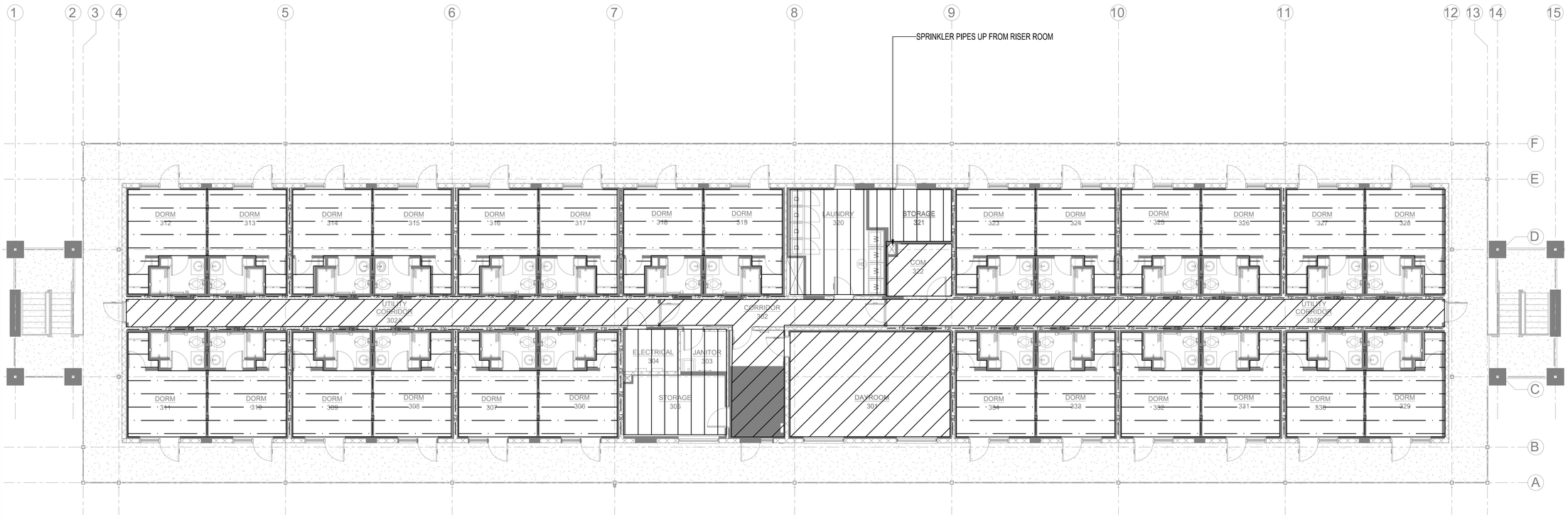
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No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FIRE SPRINKLER - SECOND FLOOR PLAN

DRAWN BY: SL	LEAD DESIGNER: SL
TECH REVIEWER: SL	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: SL	SHEET: FS1.02
DATE: 29 FEB. 2024	
SCALE: AS NOTED	64 OF 100



1 FIRE SPRINKLER - THIRD FLOOR
1/8" = 1'

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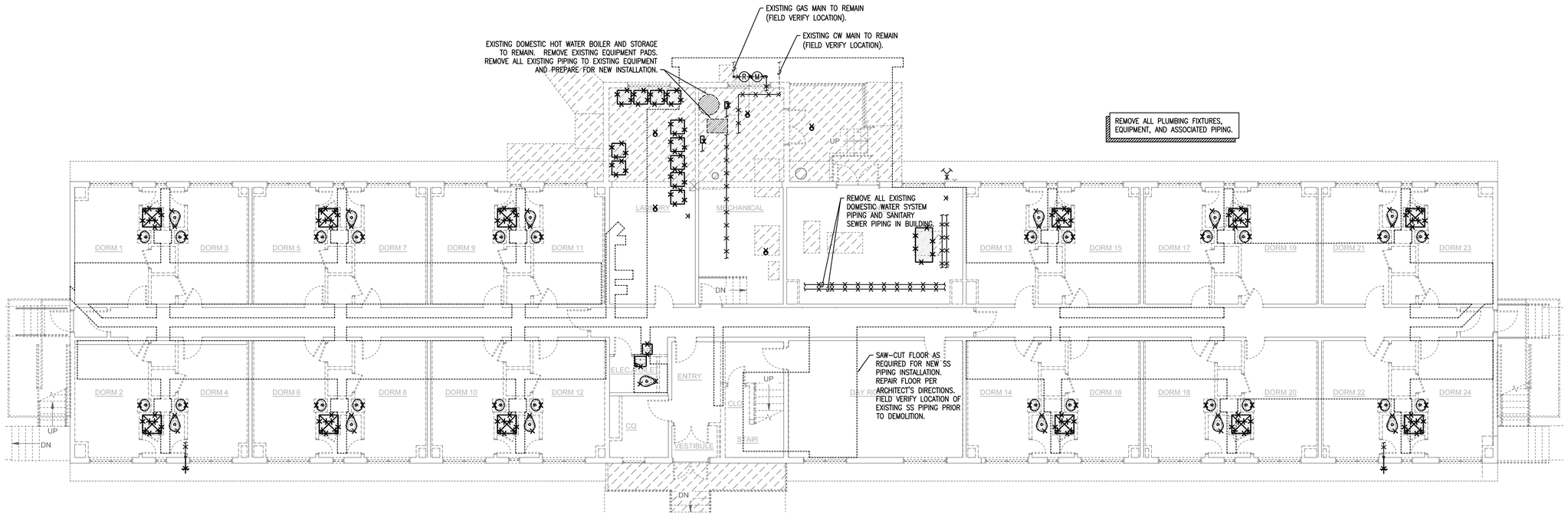
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No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	04/26/2024		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
FIRE SPRINKLER - THIRD FLOOR PLAN

DRAWN BY: SL	LEAD DESIGNER: SL
TECH REVIEWER: SL	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: SL	SHEET: FS1.03
DATE: 29 FEB. 2024	
SCALE: AS NOTED	65 OF 100



1 FIRST FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

AIR MOBILITY COMMAND
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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 13207
NOAH D. KINDER
2-29-24

ENERGY ENGINEERING CONSULTANTS, INC.
CERTIFICATE OF AUTHORIZATION
No. 1586
ARKANSAS ENGINEER

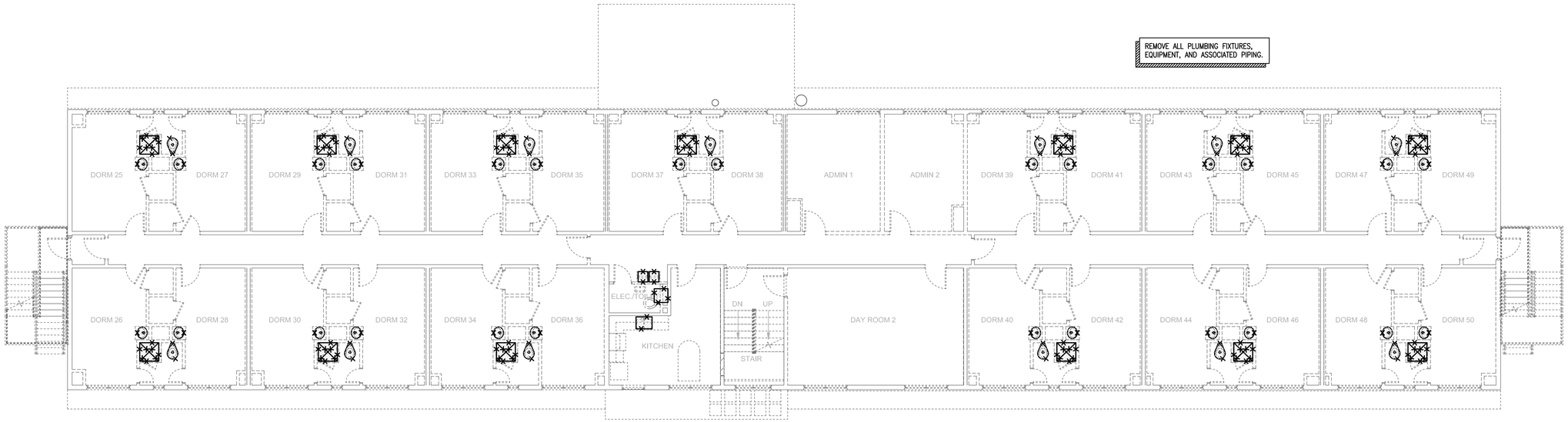
EECI
ENERGY ENGINEERING CONSULTANTS, INC.
10 CORPORATE HILL DR., STE. 100 PH: (501) 244-0511
LITTLE ROCK, AR 72205 FX: (501) 244-0241

No.	Revision/Issue	Date	By	Appd

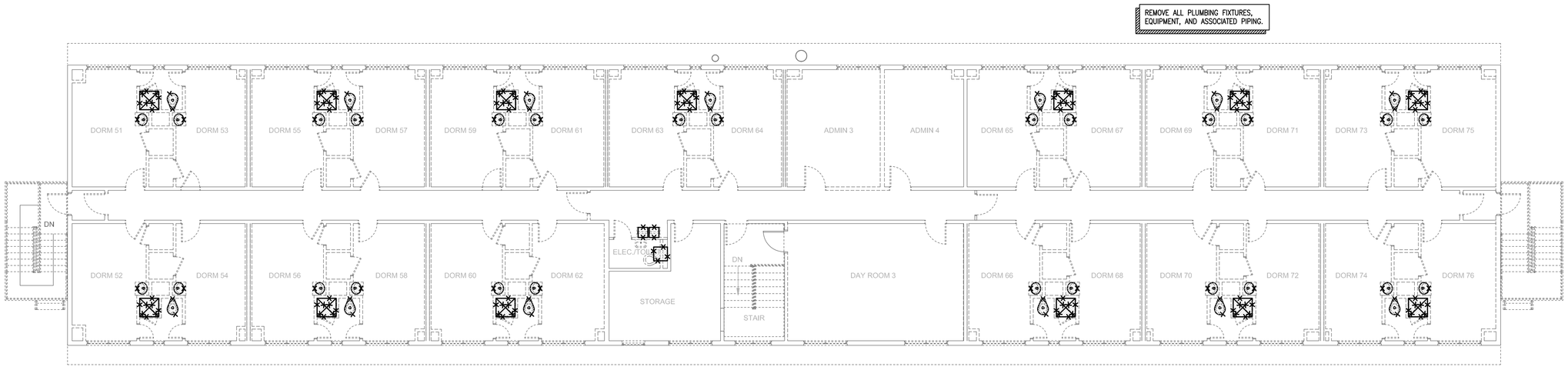
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: PLUMBING DEMOLITION PLAN

DRAWN BY: HS, BD	CAD DESIGNER: GC
TECH. REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: P1.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	66 OF 100



1 SECOND FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 THIRD FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

CERTIFICATE OF AUTHORIZATION
ENERGY ENGINEERING CONSULTANTS, INC.
No. 1586
ARKANSAS ENGINEER

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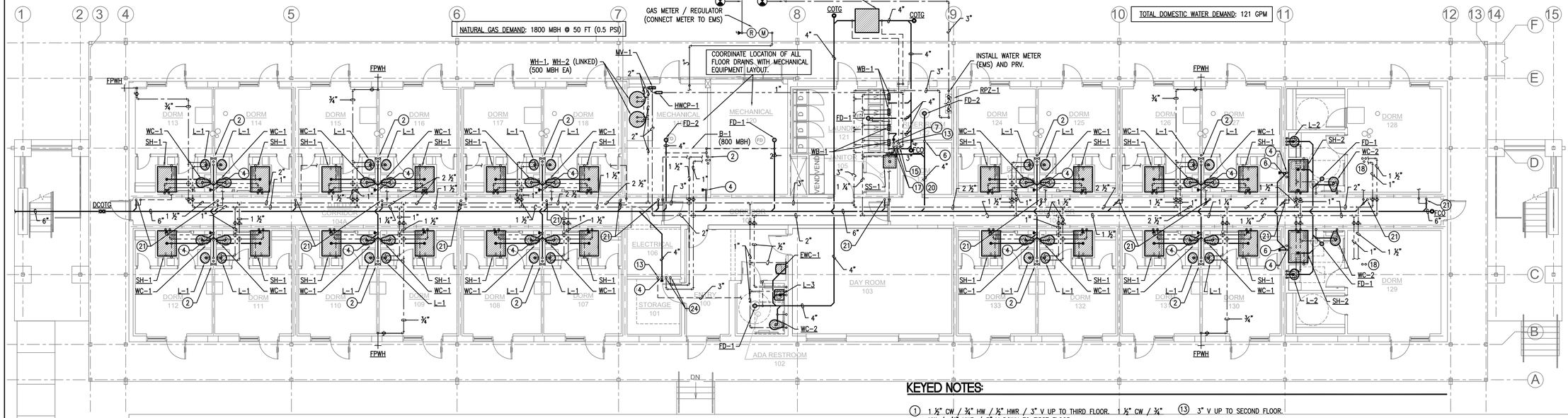
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 13207
NOAH D. KINDER
2-29-24

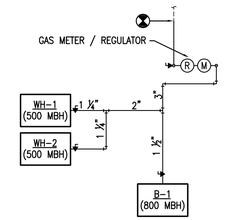
No.	Revision/Issue	Date	By	Appd.

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
PLUMBING DEMOLITION PLAN

DRAWN BY	HS, BD
CHECKED BY	HS
DESIGNED BY	GC
DATE	29 FEB. 2024
SCALE	AS NOTED
PROJECT NUMBER	NKAK 21-1034
SHEET	P1.02
	67 OF 100





3 NATURAL GAS RISER DIAGRAM
SCALE: NONE

REFER TO PLUMBING RISERS AND SCHEDULE FOR ADDITIONAL INFORMATION FOR ROUTING AND PIPE SIZING

GENERAL NOTES

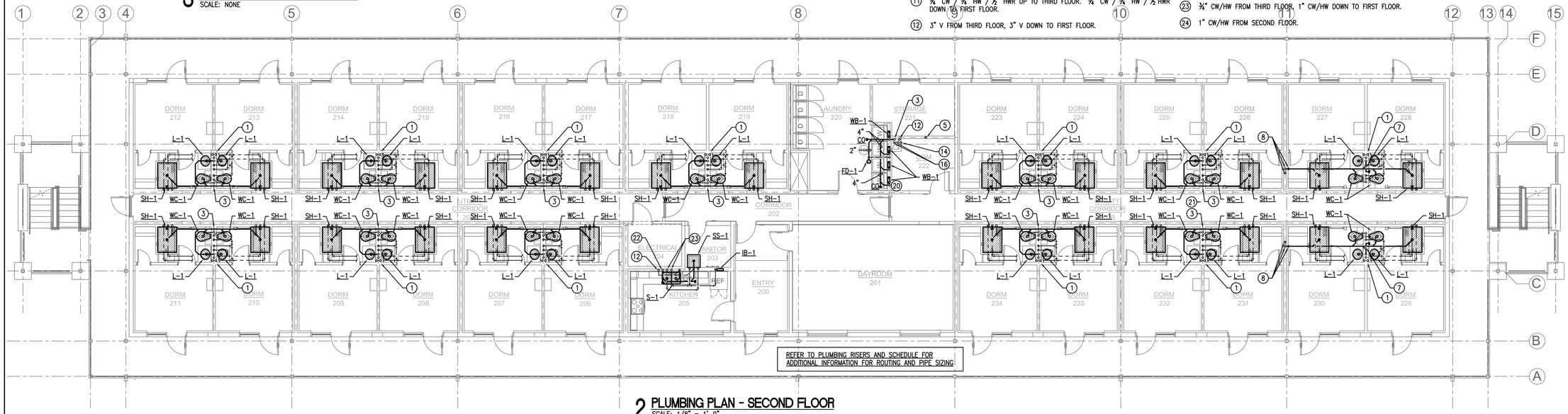
THE FOLLOWING MATERIALS SHALL BE USED.

A. BELOW-GRADE SUPPLY: COPPER OR PVC
B. ABOVE-GRADE SUPPLY: COPPER
C. ABOVE-GRADE DWV: NO-HUB CAST IRON
D. BELOW-GRADE DWV: CAST IRON OR PVC

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

KEYED NOTES:

1. 1 ½" CW / ¾" HW / ½" HWR / 3" V UP TO THIRD FLOOR. 1 ½" CW / ¾" HW / ½" HWR / 3" V DOWN TO FIRST FLOOR.
2. 1 ½" CW / 1" HW / 3" V UP TO SECOND FLOOR.
3. 4" SS FROM THIRD FLOOR. 4" SS DOWN TO FIRST FLOOR.
4. 4" SS FROM SECOND FLOOR. PROVIDE WCO 18" AFF AT BOTTOM OF STACK.
5. 2" V FROM THIRD FLOOR. 2" V DOWN TO FIRST FLOOR.
6. 2" V FROM SECOND FLOOR.
7. 4" SS FROM THIRD FLOOR. PROVIDE WCO 18" AFF AT BOTTOM OF STACK.
8. 4" SS TO FIRST FLOOR. 2" V DOWN TO FIRST FLOOR. 2" V FROM THIRD FLOOR.
9. 3" SS FROM THIRD FLOOR. PROVIDE WCO 18" AFF AT BOTTOM OF STACK.
10. 4" SS TO TO FIRST FLOOR. 2" V UP TO THIRD FLOOR.
11. ¾" CW / ¾" HW / ½" HWR UP TO THIRD FLOOR. ¾" CW / ¾" HW / ½"HWR DOWN TO FIRST FLOOR.
12. 3" V FROM THIRD FLOOR, 3" V DOWN TO FIRST FLOOR.
13. 3" V UP TO SECOND FLOOR.
14. 1" HWR FROM THIRD FLOOR, 1" HWR DOWN TO FIRST FLOOR.
15. 1" HWR FROM SECOND FLOOR.
16. 1" CW / 1" HW FROM THIRD FLOOR. ROUTE ½" CW/HW TO EACH WASHER BOX.
17. 1 ¼" CW / 1 ¼" HW FROM SECOND FLOOR.
18. ¾" CW / ¾" HW FROM SECOND FLOOR.
19. 2" V FROM THIRD FLOOR TO FIRST FLOOR.
20. COORDINATE ROUTING AND INSTALLATION OF PIPING IN CHASE WITH DUCTWORK AND MECHANICAL EQUIPMENT SHARING THE CHASE.
21. HD-1, INSTALLED IN SLAB FOR MECHANICAL EQUIPMENT DRAINAGE. COORDINATE LOCATION WITH MECHANICAL EQUIPMENT NEARBY.
22. 3" SS FROM THIRD FLOOR, 4" SS TO FIRST FLOOR.
23. ¾" CW/HW FROM THIRD FLOOR, 1" CW/HW DOWN TO FIRST FLOOR.
24. 1" CW/HW FROM SECOND FLOOR.



2 PLUMBING PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 13207
NOAH D. KINDER
2-29-24

CERTIFICATE OF AUTHORIZATION
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No. 1586
ARKANSAS ENGINEER

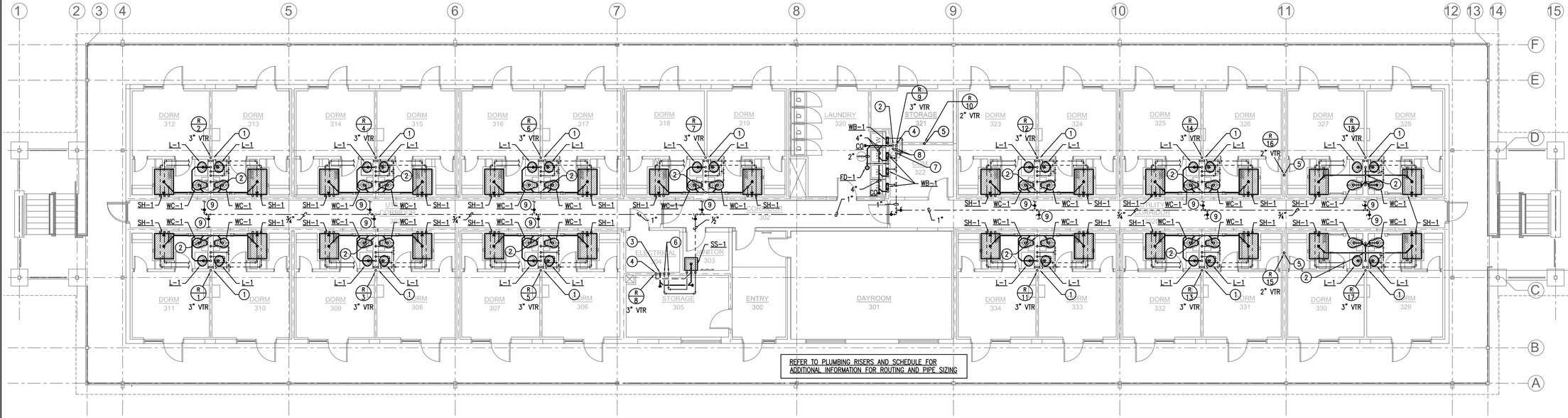
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10 CORPORATE HILL DR., STE. 100 PH: (501) 244-0511
LITTLE ROCK, AR 72205 FX: (501) 244-0241

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: PLUMBING PLAN

DRAWN BY: HS, BD	LEAD DESIGNER: GC
PROJ. ENGINEER: HS	CONTRACT NUMBER: NKAK 21-1034
CHECKED BY: GC	SHEET: P2.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	68 OF 100



1 PLUMBING PLAN - THIRD FLOOR

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

KEYED NOTES:

1. 1 ½" CW / ¾" HW / ½" HWR / 3" V DOWN TO SECOND FLOOR.
2. 4" SS DOWN TO SECOND FLOOR.
3. 3" SS DOWN TO SECOND FLOOR.
4. 3" V DOWN TO SECOND FLOOR.
5. 2" V DOWN TO SECOND FLOOR.
6. ¾" CW / ¾" HW DOWN TO SECOND FLOOR.
7. 1" HWR DOWN TO SECOND FLOOR.
8. 1" CW / 1" HW DOWN TO SECOND FLOOR. ROUTE ½" CW/HW TO EACH WASHER BOX.
9. ½" HWR ROUTED TO THE TOP OF THE THIRD FLOOR HW PIPING. CONNECT FOR RECIRULATION OF STACK.

GENERAL NOTES

THE FOLLOWING MATERIALS SHALL BE USED.

A. BELOW-GRADE SUPPLY: COPPER OR PVC

B. ABOVE-GRADE SUPPLY: COPPER

C. ABOVE-GRADE DWV: NO-HUB CAST IRON

D. BELOW-GRADE DWV: CAST IRON OR PVC

0' 4' 8' 16'

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

CERTIFICATE OF AUTHORIZATION — ENERGY ENGINEERING CONSULTANTS, INC. No. 1586 — ARKANSAS ENGINEER

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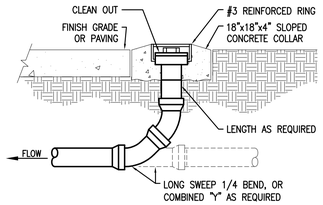
STATE OF ARKANSAS ★★★ REGISTERED PROFESSIONAL ENGINEER ★★★ NO. 13207 NOAH D. KINDER 2-29-24

No.	Revision/Issue	Date	By	Appd.

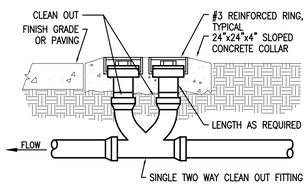
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: PLUMBING PLAN

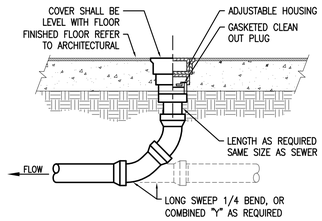
DESIGNED BY: HS, BD	CHECKED BY: GC
DRAWN BY: HS	PROJECT NUMBER: NKAK 21-1034
CHECKED BY: GC	SHEET: P2.02
DATE: 29 FEB. 2024	
SCALE: AS NOTED	69 OF 100



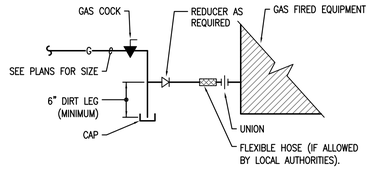
1 CLEAN OUT TO GRADE DETAIL
SCALE: NONE



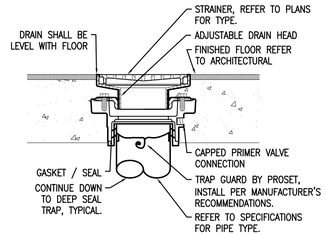
2 DOUBLE CLEAN OUT TO GRADE DETAIL
SCALE: NONE



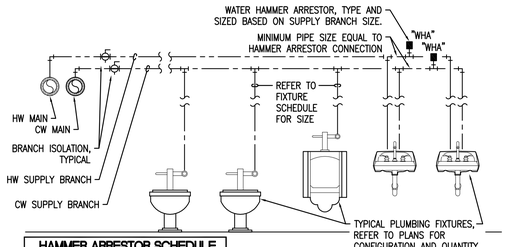
3 FLOOR CLEAN OUT (FCO) DETAIL
SCALE: NONE



4 NATURAL GAS CONNECTION DETAIL
SCALE: NONE



5 TYPICAL FLOOR DRAIN DETAIL
SCALE: NONE

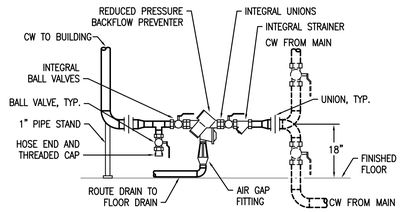


HAMMER ARRESTOR SCHEDULE

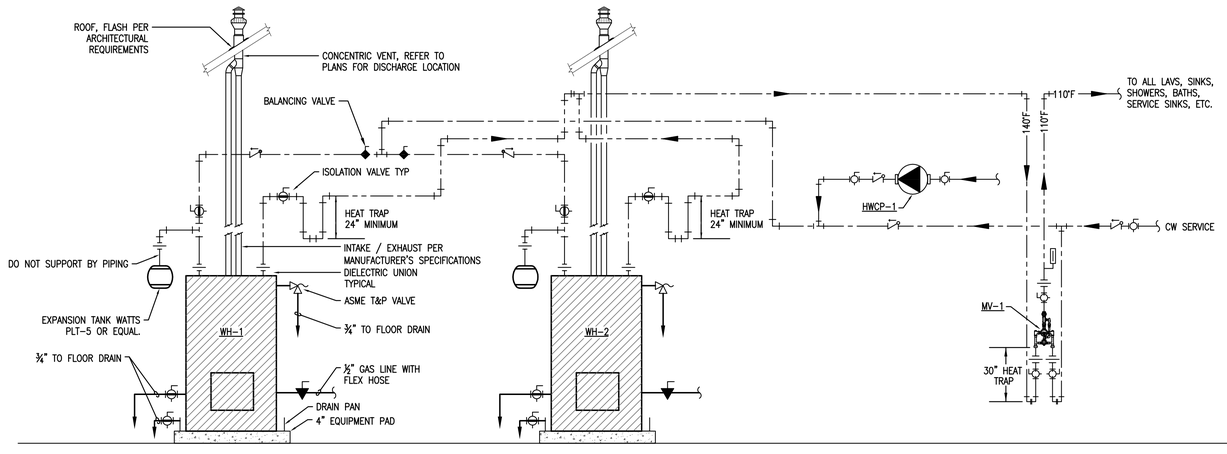
SUPPLY BRANCH SIZE	P.D.I. STANDARD SYMBOL	HAMMER ARRESTOR CONNECTION	FIXTURE UNITS
1/2" – 1"	A	1/2"	1–11
1–1/4"	B	3/4"	12–32
1–1/2"	C	1"	33–60
2"	D	1"	61–113
2–1/2"	E	1"	114–154
3"	F	1"	155–330

NOTES:
1. ALL BATHROOM GROUPS SHALL INCLUDE A MINIMUM OF ONE CW ARRESTOR AND ONE HW ARRESTOR SIZED PER HAMMER ARRESTOR SCHEDULE. ADDITIONAL ARRESTORS SHALL BE INSTALLED WHERE INDICATED (P.D.I. SYMBOL INCLUDED ON PLANS).
2. ARRESTORS SHALL BE P.D.I. WH201 APPROVED AND CERTIFIED.
3. ARRESTORS SHALL HAVE WROUGHT COPPER SHELL WITH THREADED CONNECTIONS AND HYDRO-PNEUMATIC AIR CUSHION.

6 WATER HAMMER ARRESTOR DETAIL
SCALE: NONE



7 DOMESTIC WATER RPZ DETAIL
SCALE: NONE



8 WATER HEATER PIPING DIAGRAM
SCALE: NONE

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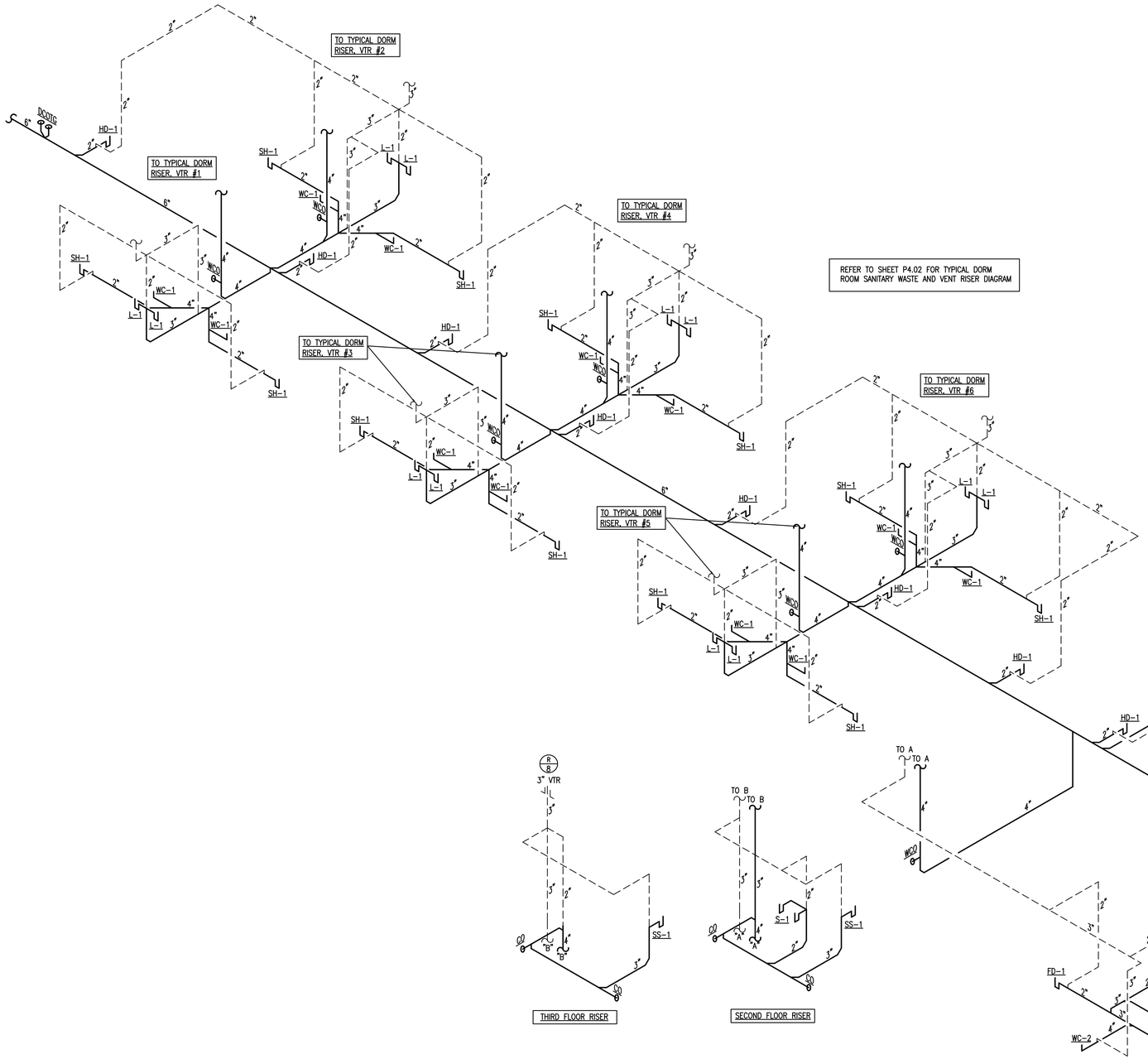
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

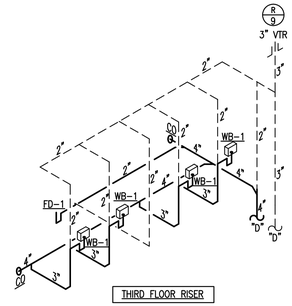
SHEET TITLE: PLUMBING DETAILS

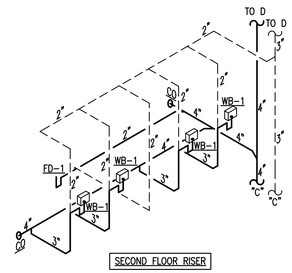
DRAWN BY: HS, BD	CHK'D DESIGNER: GC
TECH. REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: P3.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	70 OF 100

CERTIFICATE OF AUTHORIZATION
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1 SANITARY WASTE AND VENT RISER DIAGRAM
SCALE: NONE

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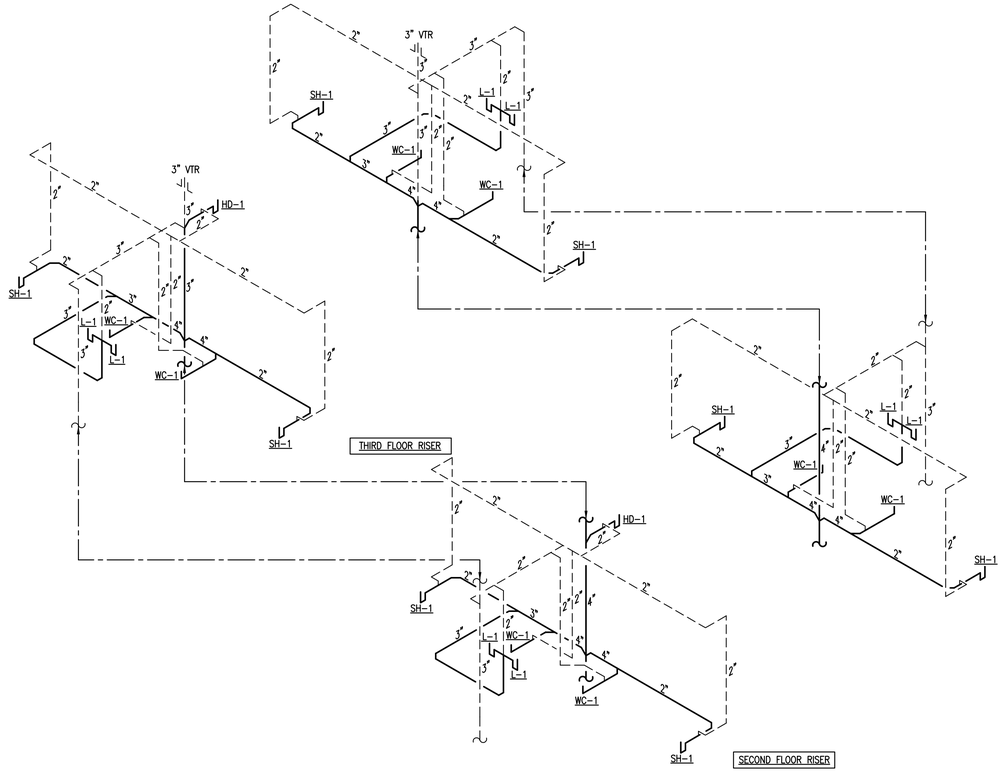
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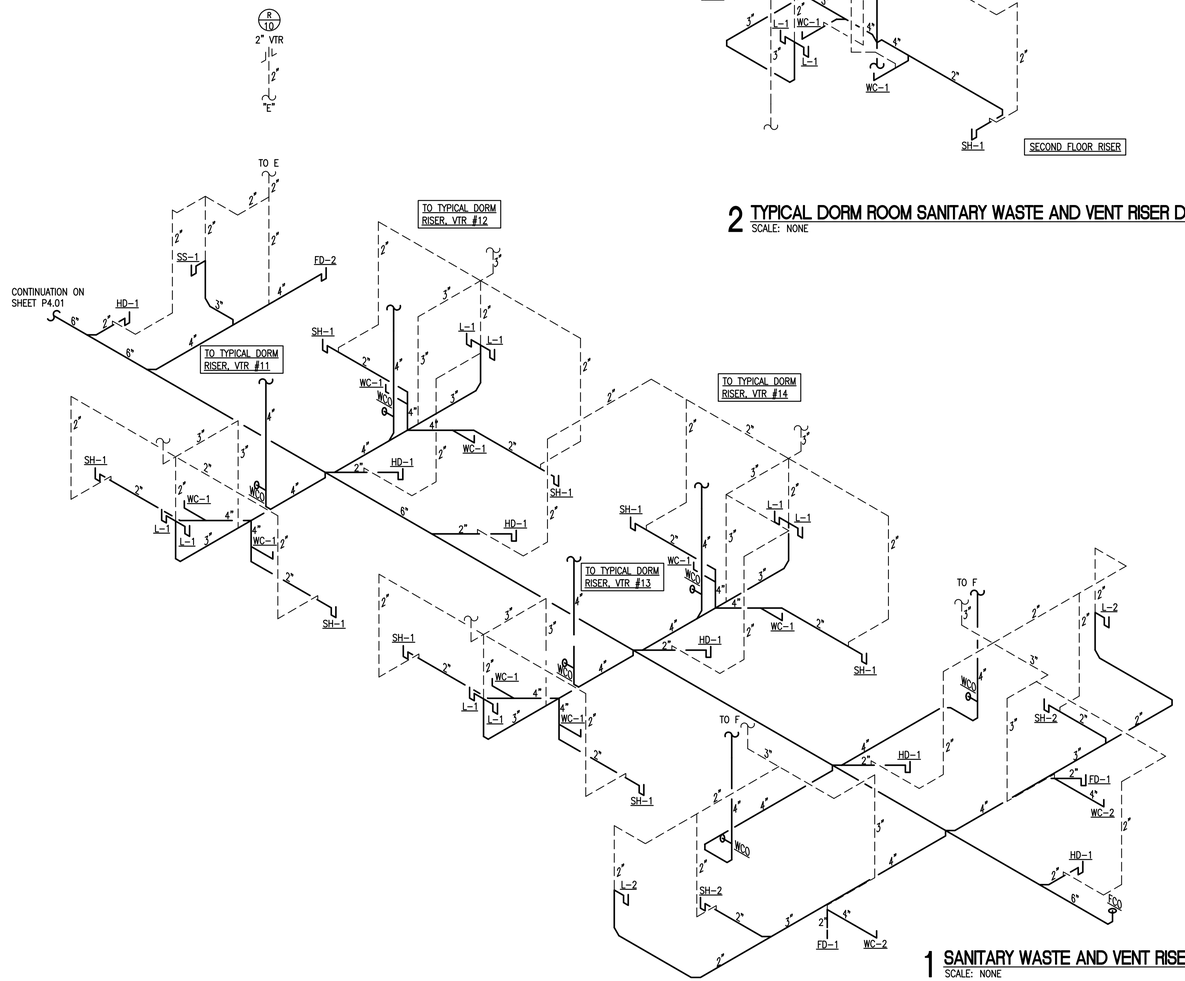
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DRAWING TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854
SHEET TITLE: PLUMBING RISERS

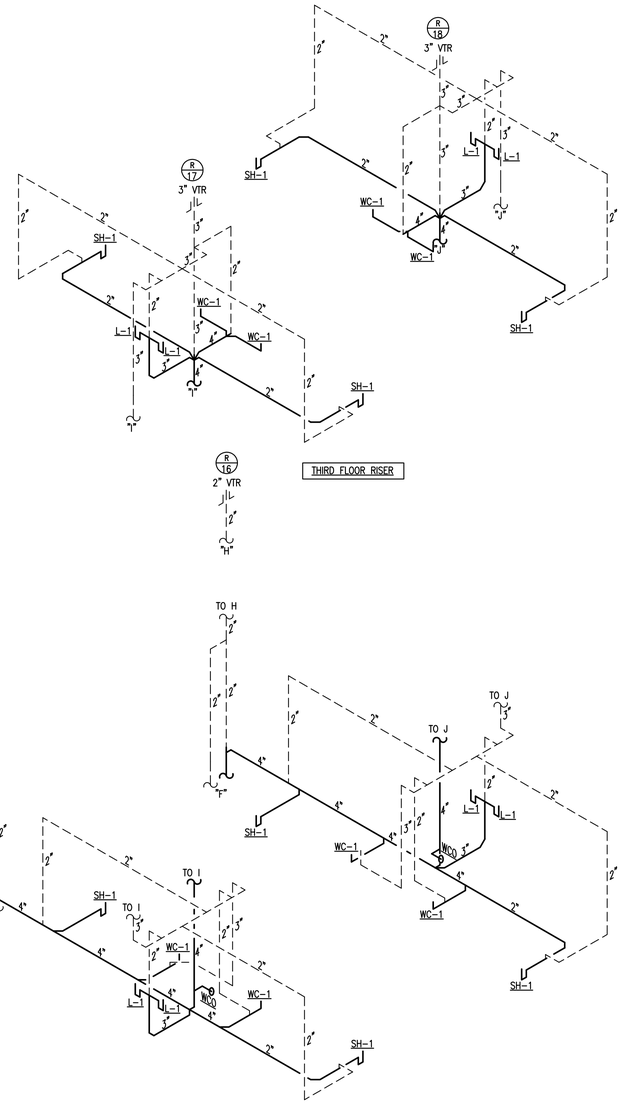
DRAWN BY: HS, BD	LEAD ENGINEER: GC
CHECKED BY: HS	PROJECT NUMBER: NKAK 21-1034
APPROVED BY: GC	SHEET: P4.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	71 OF 100



2 TYPICAL DORM ROOM SANITARY WASTE AND VENT RISER DIAGRAM
SCALE: NONE



1 SANITARY WASTE AND VENT RISER DIAGRAM
SCALE: NONE



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REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
PLUMBING RISERS

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HS, BD	GC
CHK'D BY	CONTRACT NUMBER
HS	NKAK 21-1034
REVIEWED BY	SHEET
GC	P4.02
DATE	
29 FEB. 2024	72 OF 100
SCALE	
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PLUMBING LEGEND

POINT OF CONNECTION – NEW TO EXISTING	ELBOW UP		REDUCED PRESSURE BACKFLOW PREVENTER
EXISTING TO REMAIN,	ELBOW DOWN		HAMMER ARRESTOR
EXISTING TO BE REMOVED,	TEE OUTLET UP		CAP ON END LINE
DOMESTIC COLD WATER (CW)	TEE OUTLET DOWN		T&P RELIEF VALVE
DOMESTIC HOT WATER (HW)	CONCENTRIC REDUCER		LINE CLEANOUT
DOMESTIC HOT WATER RETURN (HWR)	UNION		DOUBLE CLEANOUT TO GRADE (DCOTG)
SS — SANITARY SEWER	STRAINER WITH BLOWDOWN VALVE		FLOOR CLEANOUT (FCO)
SANITARY VENT	GATE VALVE		PRESSURE GAUGE WITH GAUGE COCK
AW — ACID WASTE	GLOBE VALVE		THERMOMETER
AV — ACID VENT	BALL VALVE	M	WATER METER
SD — STORM DRAIN	GAS VALVE	R	GAS REGULATOR
G — NATURAL GAS	OS&Y VALVE	FS	FLOW SWITCH
V — MEDICAL GAS – VACUUM	CHECK VALVE	PS	PRESSURE SWITCH
A — MEDICAL GAS – AIR	LEVER OPERATED BUTTERFLY VALVE		SIAMESE CONNECTION
O — MEDICAL GAS – OXYGEN	GEAR OPERATED BUTTERFLY VALVE		
NO — MEDICAL GAS – NITROUS OXIDE	PRESSURE REDUCING VALVE		
N — NITROGEN	BALANCING VALVE WITH DIFFERENTIAL PRESSURE TAPS		
F — FIRE STANDPIPE / SPRINKLER PIPE			

GENERAL NOTES

A. ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF LOCAL CODES, AMENDMENTS AND ORDINANCES. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETED AND ACCEPTED.

B. ALL CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE DRAWINGS.

C. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, MUST BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.

D. ALL SYSTEMS INSTALLATION MUST MAINTAIN INTEGRITY OF WALLS, PARTITIONS AND FLOORS DESIGNATED AS EITHER FIRE RATED OR "SMOKE TIGHT". SEAL AROUND ALL PENETRATIONS THROUGH RATED OR SMOKE TIGHT ASSEMBLIES. COORDINATE W/ARCHITECTURAL PLANS AND GC.

E. REPLACE OR REPAIR ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK. REPAIR OR REPLACEMENT MUST, AS A MINIMUM, EQUAL ORIGINAL CONDITION. SPECIAL CARE MUST BE TAKEN ON THE ROOFS TO PREVENT DAMAGE. ANY DAMAGE MUST BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF THE ROOFING MANUFACTURER.

F. SEAL ALL ROOF AND WALL PENETRATIONS WATERTIGHT. FLASH AND COUNTER–FLASH ALL ROOF PENETRATIONS. MINIMUM ACCEPTABLE HEIGHT OF FLASHING IS TWELVE (12) INCHES ABOVE ROOF.

G. PROVIDE PRESSURE REDUCERS IN WATER SUPPLY LINES TO KEEP PRESSURE BELOW 60 PSI AT ALL OUTLETS. MINIMUM PRESSURE ACCEPTABLE AT WATER OUTLETS IS 25 PSI AT DIRECT SUPPLY FLUSH VALVES, AND 8 PSI AT ALL OTHER OUTLETS. PROVIDE PRESSURE REDUCING VALVE (REGULATOR) AT DOMESTIC WATER SERVICE ENTRANCE, AS REQUIRED.

H. ALL PLUMBING WORK MUST BE INSTALLED HIGH AS POSSIBLE SO AS TO MAINTAIN THE MAXIMUM POSSIBLE CLEARANCE ABOVE FINISHED FLOOR.

I. CONTRACTOR MUST VERIFY UTILITIES LOCATIONS AND INVERTS WITH EXISTING PRIOR TO PLACEMENT OF SERVICES. ALL SYSTEMS MUST BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES.

J. WHEN PIPING FIVE (5) INCH DIAMETER AND OVER IS SUPPORTED FROM BAR JOISTS, EACH HANGER IS TO BE SUPPORTED BY AT LEAST TWO JOISTS BY MEANS OF SUPPLEMENTAL STEEL TO SPAN BETWEEN ADJACENT JOISTS. PIPING SIX (6) INCH DIAMETER AND OVER MUST ADDITIONALLY BE SUPPORTED FROM TOP CHORD OF STRUCTURE. KEEP PIPING THIS SIZE WITHIN 5' OF COLUMN LINES UNLESS OTHERWISE INDICATED.

K. ALL PIPE DROPS FROM ABOVE TO BELOW FLOOR MUST BE MADE IN FURR–OUTS AT COLUMNS, IN WEB OF BEAMS AT COLUMNS, OR IN WALLS UNLESS SHOWN OTHERWISE.

L. PROVIDE SHUT–OFF VALVES AT ALL BRANCH WATER LINES, AND AT ALL BRANCHES IN WATER LINES TO INDIVIDUAL FIXTURES, GROUPS OF FIXTURES OR HOSE BIB. PROVIDE VALVE ABOVE CEILING IN BRANCH SERVING EACH WALL HYDRANT (IF APPLICABLE). INSTALL VALVES IN ACCESSIBLE LOCATIONS.

M. PROVIDE WATER HAMMER ARRESTORS (WHA) AT END OF CW LINE RUNS. PROVIDE ACCESS TO ARRESTORS VIA ACCESS PANELS, ETC.

N. PROVIDE STOP VALVES AT EVERY FIXTURE ON BOTH HOT AND COLD WATER SUPPLY LINES. VALVES, ESCUTCHEONS, FITTINGS, ETC. MUST BE CHROMIUM PLATED. WHERE EXPOSED IN FINISHED AREAS, CHROME PLATED PIPE IS TO BE USED.

O. PROVIDE CLEANOUTS IN ALL SANITARY, STORM DRAINAGE & OVERFLOW LINES, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 50 FEET, AT EACH CHANGE IN DIRECTION OF 45 DEGREES AND GREATER, AND ON ALL VERTICAL RISERS AT A HEIGHT OF 30" ABOVE FINISHED FLOOR AT THE BASE OF EACH STACK.

P. ALL EXPOSED OR ACCESSIBLE P–TRAPS MUST BE PROVIDED WITH BOTTOM CLEANOUT PLUGS.

Q. MAINTAIN A MINIMUM OF 15'–0" BETWEEN ALL KNOWN FRESH AIR INTAKES AND PLUMBING VENTS FLUES, ETC. OFFSET PLUMBING VENTS BELOW ROOF AS REQUIRED TO MAINTAIN MINIMUM CLEARANCES. COORDINATE WITH ALL OTHER CONTRACTORS ON SITE.

R. ALL SANITARY SEWER LINES 3" DIA AND LESS ARE TO BE RUN AT 1/4"/FT. MINIMUM. ALL OTHERS SLOPE AT 1/8"/FT MINIMUM. UNLESS OTHERWISE INDICATED.

S. ALL HORIZONTAL STORM DRAIN (SD) LINES INSIDE BUILDINGS ARE TO SLOPE AT 1/8"/FT UNLESS OTHERWISE INDICATED. EXTERIOR BELOW GRADE STORM DRAINS ARE TO SLOPE AT 1/4"/FT UNLESS OTHERWISE INDICATED.

T. INSULATE ALL WATER LINES ABOVE FLOOR. INSULATE ALL HORIZONTAL STORM LINES (INCLUDING OVERFLOW LINES) ABOVE FLOOR. INSULATE ALL WATER LINES CARRYING HVAC CONDENSATE OR DRAINS FROM ICE MACHINES AND OTHER "REFRIGERATION EQUIPMENT".

U. PROVIDE 8 INCH WATER COLUMN MINIMUM GAS SYSTEM TO ALL GAS FIRED EQUIPMENT, UNLESS HIGHER PRESSURE IS REQUIRED BY EQUIPMENT (VERIFY WITH MANUFACTURER). MINIMUM REQUIREMENTS TO COMPLY WITH A.G.A. STANDARDS, HOWEVER, UNDER NO CIRCUMSTANCES ARE GAS LINES TO BE RUN INSIDE THE BUILDING WHICH CONTAIN GAS PRESSURES OF 5 PSI OR ABOVE.

V. PROVIDE SHUT_OFF COCK, 6 INCH DIRT LEG, AND UNION IN GAS LINE AT ALL CONNECTIONS TO GAS BURNING EQUIPMENT, INCLUDING ROOF TOP EQUIPMENT, IF APPLICABLE. UNIONS MUST BE DIELECTRIC TYPE IF EQUIPMENT CONNECTION AND GAS PIPE ARE OF DIFFERENT METALS.

W. PROVIDE ANODES ON GAS PIPING AS REQUIRED BY LOCAL UTILITY. PROVIDE ALL EQUIPMENT AT GAS METER AS REQUIRED BY LOCAL UTILITY.

PLUMBING FIXTURE ROUGH-IN SCHEDULE / SPECIFICATIONS

DESIGNATION	DESCRIPTION	SAN.	VENT	C.W.	H.W.	MOUNTING	REFERENCE PRODUCT	COMMENTS
L–1	LAVATORY	2"	1–1/2"	1/2"	1/2"	COUNTER	BRYANT K–2599–1 OVAL DROP IN SINK, W/ CHROME P–TRAP, AND MCGUIRE 2165 SUPPLIES. KOHLER HINT K–97060–4 FAUCET WITH VIBRANT BRUSH NICKEL FINISH AND VANDAL RESISTANT AERATOR.	MOUNT IN ARCHITECTURAL COUNTERTOP.
L–2	ADA LAVATORY	2"	1–1/2"	1/2"	1/2"	COUNTER	BRYANT K–2599–1 OVAL DROP IN SINK, W/ CHROME P–TRAP, AND MCGUIRE 2165 SUPPLIES. KOHLER HINT K–97060–4 FAUCET WITH VIBRANT BRUSH NICKEL FINISH AND VANDAL RESISTANT AERATOR.	SHIELD DRAIN AND SUPPLY PIPING WITH TRUBRO LAV. GUARD OR EQUAL IN EXPOSED LOCATIONS. MOUNT TO ADA REQUIREMENTS IN ARCHITECTURAL COUNTERTOP.
L–3	ADA LAVATORY	2"	1–1/2"	1/2"	1/2"	WALL	AMERICAN STANDARD 0355.012 "LUCERNE", WALL MOUNT, WHITE VITREOUS CHINA, W/ CHROME WHEELCHAIR P–TRAP, GRID DRAIN, MCGUIRE 2165 SUPPLIES. DELTA 501–LF–WF LEAD FREE COMPLIANT SINGLE LEVER CHROME PLATED CAST BRASS FAUCET WITH COPPER CONNECTORS AND VANDAL RESISTANT AERATOR.	MIN. RIM HEIGHT 15" AFF. BEMIS 2155SSCT WHITE ELONGATED ANTI–MICROBIAL SEAT, WITH SELF–SUSTAINING CHECK HINGE, SS POSTS AND PINTLES, AND STA–TITE COMMERCIAL FASTENING SYSTEM.
WC–1	WATER CLOSET	4"	2"	1/2"	---	FLOOR	AMERICAN STANDARD 2234.001 "MADERA", ELONGATED BOWL, FLOOR MOUNT, WHITE VITREOUS CHINA, SIPHON JET, TOP SPUD, BOLT CAPS. SLOAN ROYAL FLUSH VALVE, 1.6 GPF MAX.	MIN. RIM HEIGHT 15" AFF. BEMIS 2155SSCT WHITE ELONGATED ANTI–MICROBIAL SEAT, WITH SELF–SUSTAINING CHECK HINGE, SS POSTS AND PINTLES, AND STA–TITE COMMERCIAL FASTENING SYSTEM.
WC–2	ADA WATER CLOSET	4"	2"	1/2"	---	FLOOR	AMERICAN STANDARD 3043.001 "MADERA", ELONGATED BOWL, FLOOR MOUNT, WHITE VITREOUS CHINA, SIPHON JET, TOP SPUD, BOLT CAPS. SLOAN ROYAL FLUSH VALVE, 1.6 GPF MAX.	MOUNT TO ADA REQUIREMENTS, MIN. RIM HEIGHT 17" AFF. BEMIS 2155SSCT WHITE ELONGATED ANTI–MICROBIAL SEAT, WITH SELF–SUSTAINING CHECK HINGE, SS POSTS AND PINTLES, AND STA–TITE COMMERCIAL FASTENING SYSTEM.
SH–1	SHOWER	2"	2"	3/4"	3/4"	FLOOR	FIAT MONTEREY 4836–MFTR SHOWER PAN WITH CONTRACTOR BUILT WALLS (48" x 36"), POLISHED CHROME SELF–CAULKING GRID DRAIN.	DELTA PRESSURE BALANCE SHOWER VALVE AND TRIM T13H122. BOLT–THRU CURTAIN ROD W/ VINYL ANTI–MICROBIAL WHITE SHOWER CURTAIN AND ALL TRIM TO BE SPECIFIED BY ARCHITECT.
SH–2	ADA SHOWER	2"	2"	3/4"	3/4"	FLOOR	FIAT HUNTINGTON ADAWN–6036 ADA SHOWER PAN WITH CONTRACTOR BUILT WALLS (65.23" x 38.38") W/ GRAB BARS, FOLD DOWN SEAT. POLISHED CHROME SELF–CAULKING GRID DRAIN.	DELTA ADA SHOWER VALVE AND TRIM T13H152–05. HAND SHOWER WITH HOSE, 36" SS BAR WITH ADA SLIDE, PRESSURE BALANCED. BOLT–THRU CURTAIN ROD W/ VINYL ANTI–MICROBIAL WHITE SHOWER CURTAIN AND ALL TRIM TO BE SPECIFIED BY ARCHITECT.
SS–1	JANITOR'S SINK	3"	2"	3/4"	3/4"	WALL	ELKAY ESS–2319 SERVICE SINK, 14 GA. 304 STAINLESS STEEL, WALL MOUNT, WITH FULL BACKSPLASH, ROLLED EDGES, AND SATIN FINISH. CHICAGO FAUCETS 445–PVBCP WALL MOUNTED 3 3/8" BODY, ADJUSTABLE ARMS 3" – 8 3/8" HOT AND COLD WATER SINK FAUCET, CHROME PLATED SOLID BRASS CONSTRUCTION. RIGID SPOUT AND MALE HOSE THREAD, PAIL HOOK, AND WALL BRACE. LEVER HANDLES, REBUILDABLE COMPRESSION CARTRIDGE. OFFSET SUPPLY ARM WITH INTEGRAL CHECK AND SHUT–OFF STOP WITH NPT FEMALE THREAD INLET. SPILL RESISTANT PRESSURE VACUUM BREAKER, SECONDARY CONTROL VALVE.	PROVIDE WITH WALL HANGER AND STAINLESS STEEL SUPPORT BRACKETS. PROVIDE WITH STANDARD ELKAY MODEL LK173 FLOOR–MOUNTED CAST IRON P–TRAP WITH FRONT CLEANOUT PLUG.
S–1	DOUBLE COMPARTMENT SINK	2"	2"	1/2"	1/2"	COUNTER	ELKAY LR–3321, 13–1/2"x16"x8"D BOWLS, 18 GA. STAINLESS STEEL, CENTER OUTLETS, W/ CHROME P–TRAPS, MCGUIRE 2165 SUPPLIES. DELTA MODEL 100LF–HDF SINGLE LEVER FAUCET W/ 8" SWING SPOUT.	MOUNT IN ARCHITECTURAL COUNTERTOP. PROVIDE WITH REMOVABLE STRAINER BASKETS.
WH–1, WH–2	GAS FIRED WATER HEATERS	---	---	1–1/2"	1–1/2"	FLOOR	A.O. SMITH CYCLONE LV MODEL BTHL–500A, 220 GALLON, 500 MBH INPUT, POWERED DIRECT VENTING, POWERED ANODE, HELICAL HEAT EXCHANGER COIL, DEDICATED INTELLIGENT CONTROL SYSTEM WITH LCD DISPLAY AND BUILT–IN DIAGNOSTICS, HANDHOLE CLEANOUT, 619 GPH RECOVERY AT 90°F RISE.	PROVIDE MANUFACTURER'S INTAKE AND COMBUSTION AIR VENT PIPING CONCENTRIC VENT KIT. VENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. ROUTE FULL SIZE T&P DISCHARGE TO FLOOR DRAIN. ROUTE CONDENSATE DRAIN TO FLOOR DRAIN SEPARATELY FROM T&P. PROVIDE CATCH PAN AND ROUTE DRAIN FULL SIZE (3/4" MINIMUM) TO FLOOR DRAIN. PROVIDE WEISS HW5A2 THERMOMETER (30–240 °F RANGE) WITH BRASS THERMOMETER WELL.
HWCP–1	HOT WATER CIRCULATOR PUMP	---	---	---	1"	SUSPENDED	TACO MODEL 0011–SF4 CIRCULATING PUMP, 120V, 1/8 HP, 1" FLANGED CONNECTIONS. 7 GPM AT 15 FEET HEAD.	INSTALL VERTICALLY IN PIPING RISER. PROVIDE ISOLATION VALVES, PLUG SET, TIMER, AND AQUASTAT PACKAGE.
MV–1	MIXING VALVE	---	---	2"	2"	SUSPENDED	LEONARD MODEL TM–2020B–LF–DT LEAD FREE THERMOSTATIC WATER MIXING VALVE (2" INLETS, 2" OUTLET), 55 GPM FLOW AT 10 PSI PRESSURE DROP, SOLID BI–METAL THERMOSTAT, COLOR–CODED DIALS, LOCKING TEMPERATURE REGULATOR HANDLES, ADJUSTABLE LIMIT STOPS, INTEGRAL HOT AND COLD SUPPLY CHECKSTOPS, OUTLET BALL VALVE SHUTOFFS, COLOR–CODED DIAL THERMOMETER, INLET PIPING MANIFOLD, ROUGH BRONZE FINISH, ASSE 1017 LISTED.	FACTORY PRE–ASSEMBLED AND TESTED. SET TO 120°F DISCHARGE.
RPZ–1	REDUCED PRESSURE BACKFLOW PREVENTER	---	---	3"	---	WALL	WATTS MODEL LF009 LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTERS 3" SIZE. PROVIDE INLET STRAINERS, ISOLATION BALL VALVES, AND 4 TEST PORTS.	MOUNT IN DOMESTIC WATER SERVICE LINE, LOWER RPZ MINIMUM 18" AFF. ROUTE FULL SIZE DISCHARGES THRU AIR GAP FITTING TO JAN. SINK OR DRAIN PROVIDED.
FD–1	FLOOR DRAIN	2"	2"	---	---	FLOOR	PROSET MODEL T25630–F–P FLOOR DRAIN, 2" OUTLET, 5" DIAMETER NICKEL BRONZE TOP, WITH INTEGRAL TRAP GUARD, AND ADJ. COLLAR.	PROVIDE WITH DEEP SEAL TRAP AND TRAP GUARD.
FD–2	FLOOR DRAIN	3"	2"	---	---	FLOOR	PROSET MODEL T35630–F–P FLOOR DRAIN, 3" OUTLET, 5" DIAMETER NICKEL BRONZE TOP, WITH INTEGRAL TRAP GUARD, AND ADJ. COLLAR.	PROVIDE WITH DEEP SEAL TRAP AND TRAP GUARD.
HD–1	HUB DRAIN	2"	2"	---	---	FLOOR	WATTS MODEL FD–100–DD, 2" FLOOR DRAIN WITH HUB FUNNEL. EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE CAST IRON HUB FUNNEL, AND NO HUB (STANDARD) OUTLET.	PROVIDE WITH DEEP SEAL TRAP AND INSTALL TRAP GUARD BY PROSET.
EWC–1	ELECTRIC WATER COOLER WITH BOTTLE FILLER	1–1/2"	1–1/2"	1/2"	---	WALL	ELKAY MODEL LZS8WWP WALL MOUNT, BARRIER FREE COOLER WITH BOTTLE FILLING STATION. 8 GPH OF 50°F WATER. FRONT AND SIDE EASY TOUCH CONTROLS, SS BASIN / SHROUDS, EASY–FLEX BUBBLER, 120V / 3.7A.	MOUNT WITH BUBBLER OUTLET AT 32" AFF. MOUNT TO ADA REQUIREMENTS. PROVIDE WALL CARRIER AND 5 YEAR WARRANTY ON COMPRESSOR.
WB–1	WASHER BOX	2"	2"	3/4"	3/4"	WALL / RECESSED	GUY GRAY MODEL FB–200, 10"x9"x3.5" BOX. PROVIDE WITH TWO 1/2" HOSE BIBBS, 2" TRAP, AND DRAIN WITH EXTENDED TAILPIECE.	CONTRACTOR TO MAKE ALL CONNECTIONS. APPLIANCE BY OTHERS.
IB–1	ICEMAKER BOX	---	---	1/2"	---	WALL / RECESSED	GUY GRAY MODEL #BIM875, 10"x8"x3.5" BOX. PROVIDE WITH 1/2" F.I.P. INLET AND 1/4" O.D. COMPRESSION OUTLET ANGLE VALVE.	CONTRACTOR TO MAKE ALL CONNECTIONS. APPLIANCE BY OTHERS.
LI–1	LINT INTERCEPTOR	4"	---	---	---	BELOW GRADE	WADE 5600, FABRICATED STEEL LINT INTERCEPTOR WITH GASKETED COVER, STAINLESS STEEL PRIMARY FIXED FILTER, STAINLESS STEEL SECONDARY REMOVABLE FILTER, THREADED INLET/OUTLET & EPOXY COATING.	CONSTRUCTION SHALL BE HEAVY DUTY TRAFFIC GRADE. INSTALL WITH HATCH AT GRADE LEVEL

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — NO. 13207 — NOAH D. KINDER — 2-29-24

No.	Revision/Issue	Date	By	Appd.

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: PLUMBING SCHEDULES

DRAWN BY: HS, BD	LEAD DESIGNER: GC
CHECKED BY: HS	JOB NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: P5.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	73 OF 100

KEYED DEMOLITION NOTES:

(1) EXISTING MECHANICAL EQUIPMENT PAD TO BE DEMOLISHED COMPLETE BACK TO ORIGINAL FLOOR LEVEL. PREPARE FLOOR AS REQUIRED FOR NEW PADS WHERE INDICATED ON RENOVATION PLANS.

MECHANICAL DEMOLITION NOTES

THE MECHANICAL RELATED DEMOLITION WORK INDICATED BY THE CONTRACT DOCUMENTS MUST BE CLOSELY COORDINATED WITH THE OWNER'S REPRESENTATIVE AND OTHER TRADES. NO DEMOLITION IS TO TAKE PLACE IN ANY AREA OR BUILDING UNTIL THE CONTRACTOR HAS BEEN GIVEN APPROVAL TO PROCEED IN THAT SPECIFIC LOCATION. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE OF WORK.

IF IT BECOMES NECESSARY DURING DEMOLITION TO TEMPORARILY REMOVE ANY EQUIPMENT, PIPING, ETC. WHICH IS NOT SPECIFICALLY NOTED TO BE REMOVED OR RELOCATED (THEREBY IMPLYING THAT THEY ARE TO BE LEFT FOR FUTURE USE), THE CONTRACTOR MUST REINSTALL SAID SYSTEMS TO FULLY OPERABLE CONDITION IN THEIR ORIGINAL LOCATIONS.

DISPOSE OF ALL REMOVED EQUIPMENT AS DIRECTED BY THE OWNER. CONTRACTOR MUST COORDINATE REMOVAL OF UTILITY SERVICES WITH UTILITY COMPANIES AND LOCAL AUTHORITIES. PAY ALL ASSOCIATED FEES.

ALL DEMOLITION WORK MUST BE SCHEDULED WITH THE OWNER AT LEAST 48 HOURS PRIOR TO THE WORK.

SCHEDULE UTILITY SHUTDOWNS TO KEEP DOWNTIME TO A MINIMUM AND TO NOT INTERFERE WITH THE DAILY SCHEDULE, IF POSSIBLE. SCHEDULE UTILITY DOWNTIME A MINIMUM OF THREE (3) DAYS IN ADVANCE AND COORDINATE WITH OWNER'S REPRESENTATIVE.

ANY DAMAGE TO THE OWNER'S (OR TENANT'S) PROPERTY, TO THE STRUCTURE OR BUILDING, OR TO EQUIPMENT RESULTING FROM THE CONTRACTOR'S OPERATIONS MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER. REPAIR OR REPLACEMENT MUST, AS A MINIMUM, EQUAL EXISTING CONDITIONS.

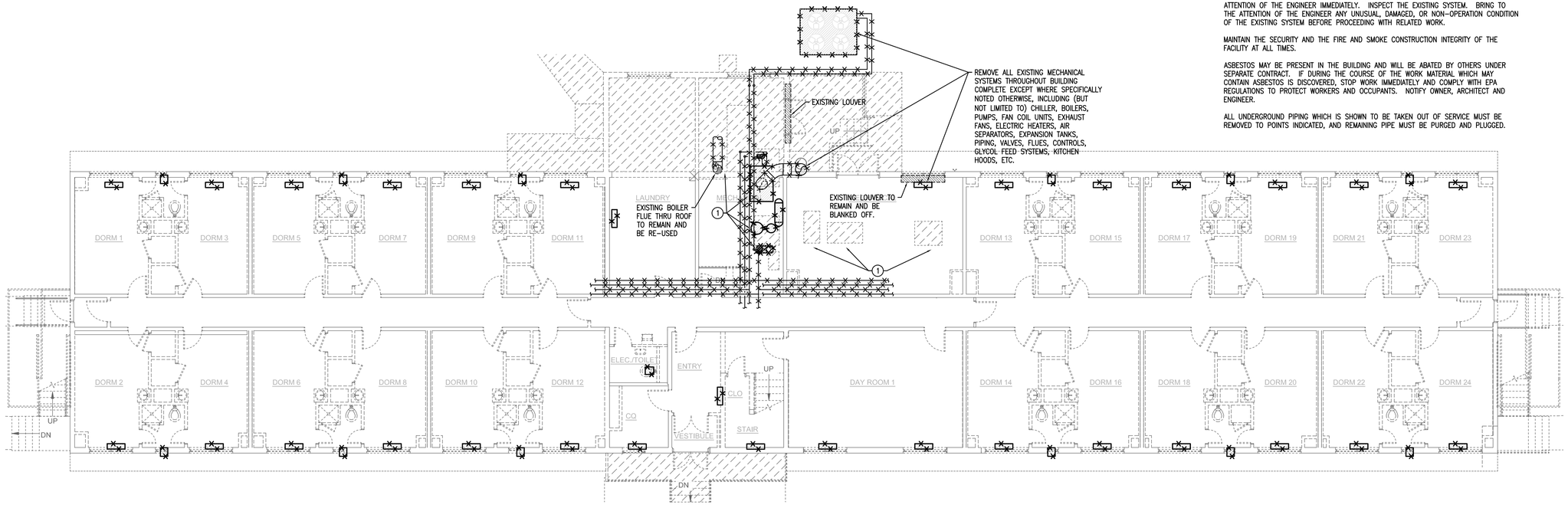
FIREPROOFING ON EXISTING STRUCTURE MUST BE REPLACED OR TOUCHED-UP WHERE DISTURBED FOR THE INSTALLATION OF THE MECHANICAL SYSTEMS.

ANY EXISTING EQUIPMENT, DUCTS, OR PIPING THAT ARE DESIGNATED TO BE REUSED WHICH ARE FOUND TO ALREADY BE DAMAGED OR NON-OPERABLE MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. INSPECT THE EXISTING SYSTEM. BRING TO THE ATTENTION OF THE ENGINEER ANY UNUSUAL, DAMAGED, OR NON-OPERATION CONDITION OF THE EXISTING SYSTEM BEFORE PROCEEDING WITH RELATED WORK.

MAINTAIN THE SECURITY AND THE FIRE AND SMOKE CONSTRUCTION INTEGRITY OF THE FACILITY AT ALL TIMES.

ASBESTOS MAY BE PRESENT IN THE BUILDING AND WILL BE ABATED BY OTHERS UNDER SEPARATE CONTRACT. IF DURING THE COURSE OF THE WORK MATERIAL WHICH MAY CONTAIN ASBESTOS IS DISCOVERED, STOP WORK IMMEDIATELY AND COMPLY WITH EPA REGULATIONS TO PROTECT WORKERS AND OCCUPANTS. NOTIFY OWNER, ARCHITECT AND ENGINEER.

ALL UNDERGROUND PIPING WHICH IS SHOWN TO BE TAKEN OUT OF SERVICE MUST BE REMOVED TO POINTS INDICATED, AND REMAINING PIPE MUST BE PURGED AND PLUGGED.



1 FIRST FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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NOAH D. KINDER
2-29-24

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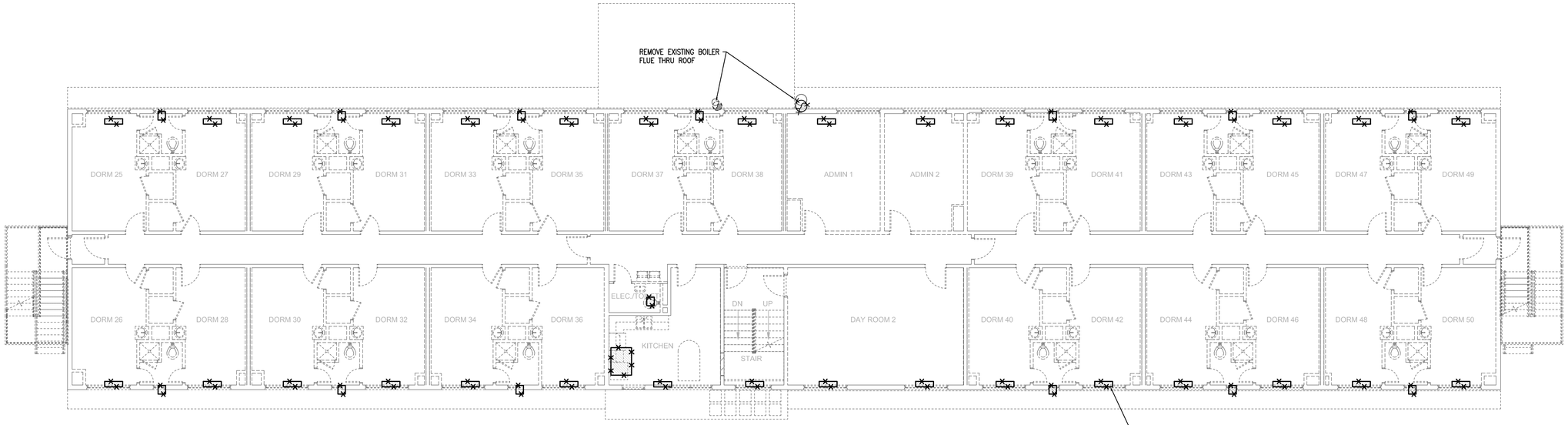
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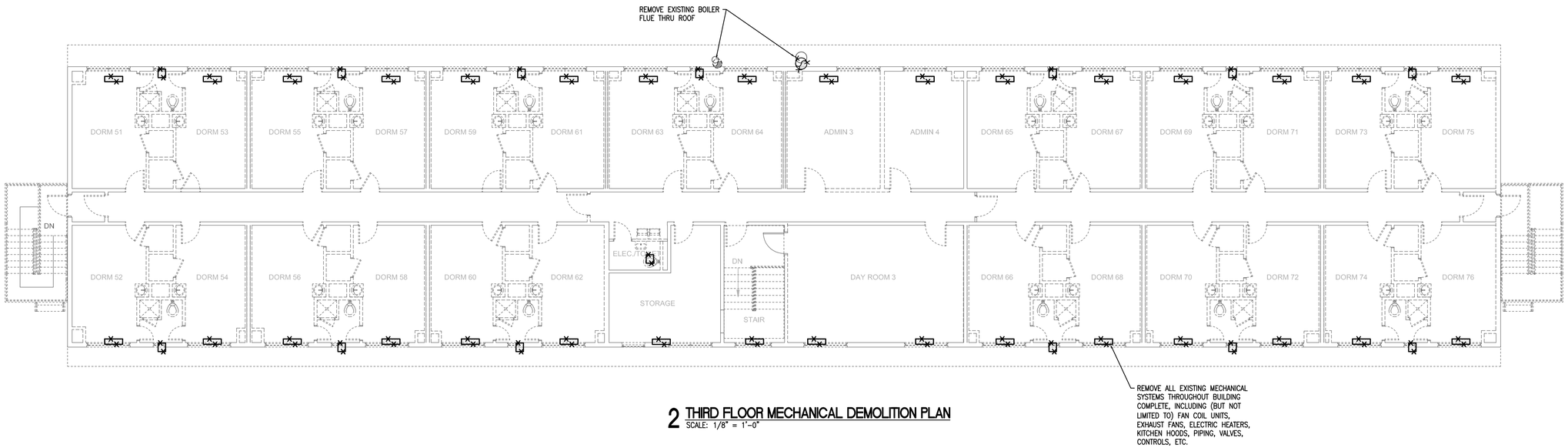
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: MECHANICAL DEMOLITION PLAN

DRAWN BY: HS, BD	CAD DESIGNER: GC
TECH. REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: M1.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	74 OF 100



1 SECOND FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 THIRD FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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NOAH D. KITNER
2-29-24

No.	Revision/Issue	Date	BY	APP'D

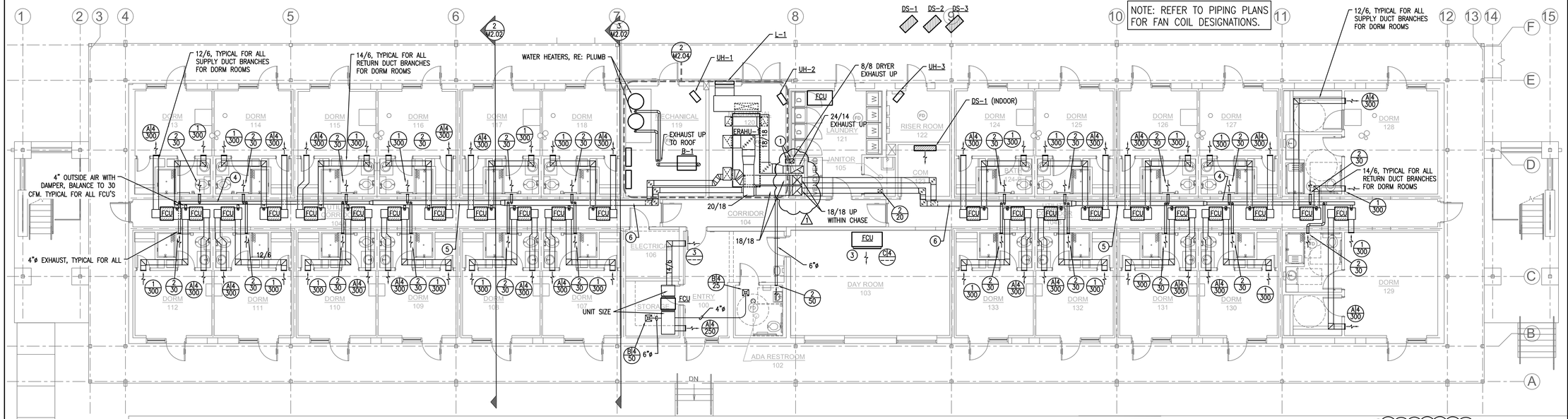
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
MECHANICAL DEMOLITION PLAN

DRAWN BY	LEAD DESIGNER
HS, BD	GC
CHECKED BY	PROJECT NUMBER
HS	NKAK 21-1034
DESIGNED BY	SHEET
GC	M1.02
DATE	
29 FEB. 2024	75 OF 100
SCALE	
AS NOTED	

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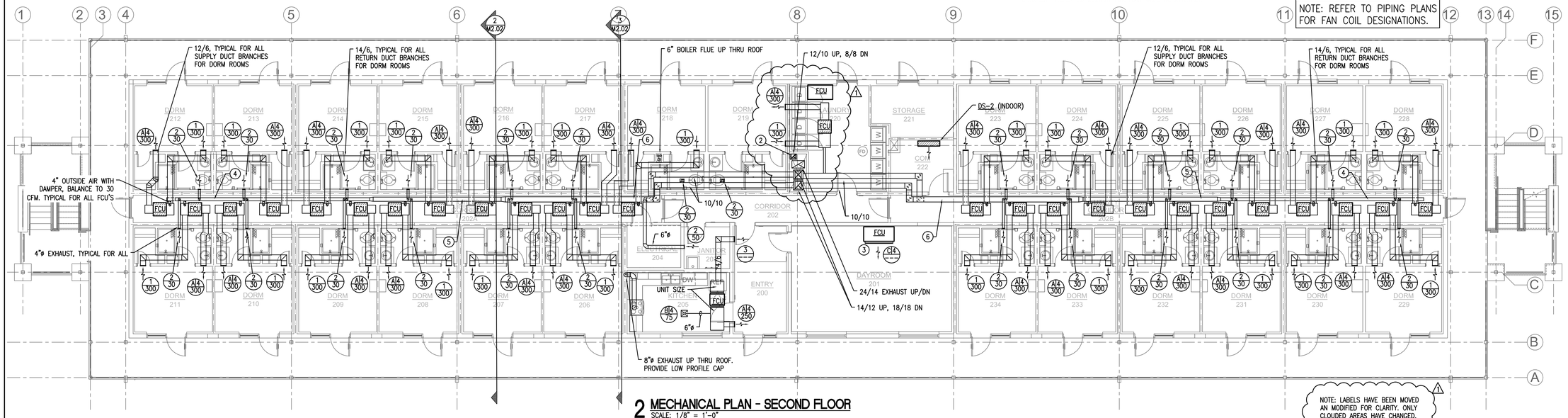


1 MECHANICAL PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"

KEYED NOTES:

1. EXHAUST DUCT TO EXTEND TO 12"AFF. ROUTE FOUR 4"ø EXHAUST DUCTS TO DRYERS WITH LOWEST CONNECTION OF 24"ø. PROVIDE 8/8 TO MECHANICAL ROOM WITH ACCESS DOOR FOR LINT REMOVAL.
2. ROUTE FOUR 4"ø EXHAUST DUCTS TO DRYERS.
3. EXTEND DISCHARGE DUCT TO NEW GRILLE, SIZE TO EQUAL DIMENSIONS OF FAN COIL UNIT.
4. 6/6 OUTSIDE AIR DUCT (BOTTOM) AND EXHAUST DUCT (TOP) STACKED. REFER TO SECTION FOR ADDITIONAL INFORMATION.
5. 8/8 OUTSIDE AIR DUCT (BOTTOM) AND EXHAUST DUCT (TOP) STACKED. REFER TO SECTION FOR ADDITIONAL INFORMATION.
6. 10/10 OUTSIDE AIR DUCT (BOTTOM) AND EXHAUST DUCT (TOP) STACKED. REFER TO SECTION FOR ADDITIONAL INFORMATION.

NOTE: LABELS HAVE BEEN MOVED AN MODIFIED FOR CLARITY. ONLY CLOUDED AREAS HAVE CHANGED.



2 MECHANICAL PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"

NOTE: LABELS HAVE BEEN MOVED AN MODIFIED FOR CLARITY. ONLY CLOUDED AREAS HAVE CHANGED.

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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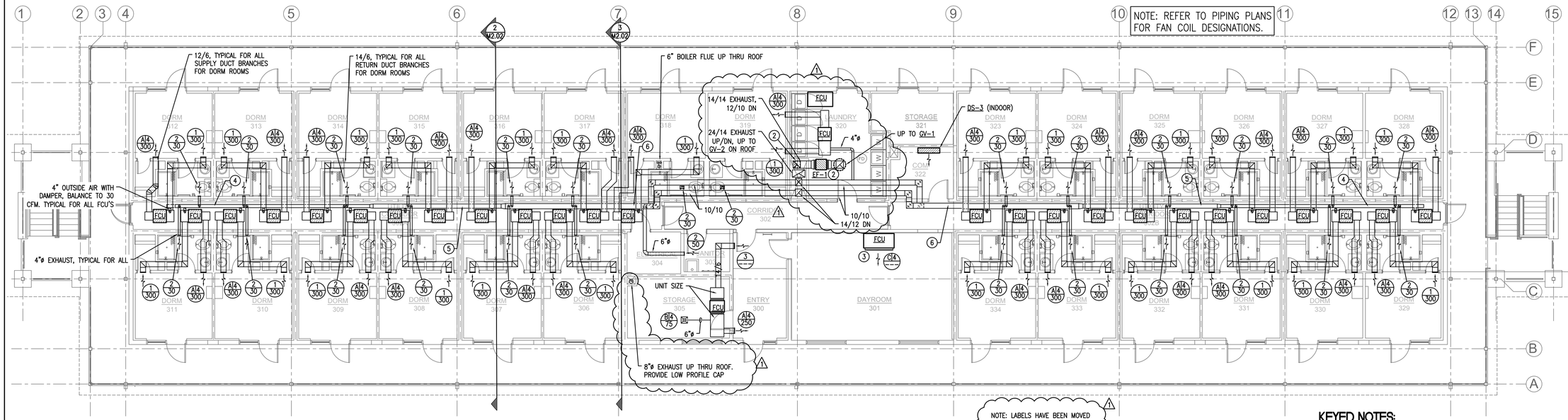
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER NO. 13207 NOAH D. KITNER 2-29-24

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: MECHANICAL PLAN

DRAWN BY: HS, BD	CHK'D DESIGNER: GC
CHK'D REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: M2.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	76 OF 100

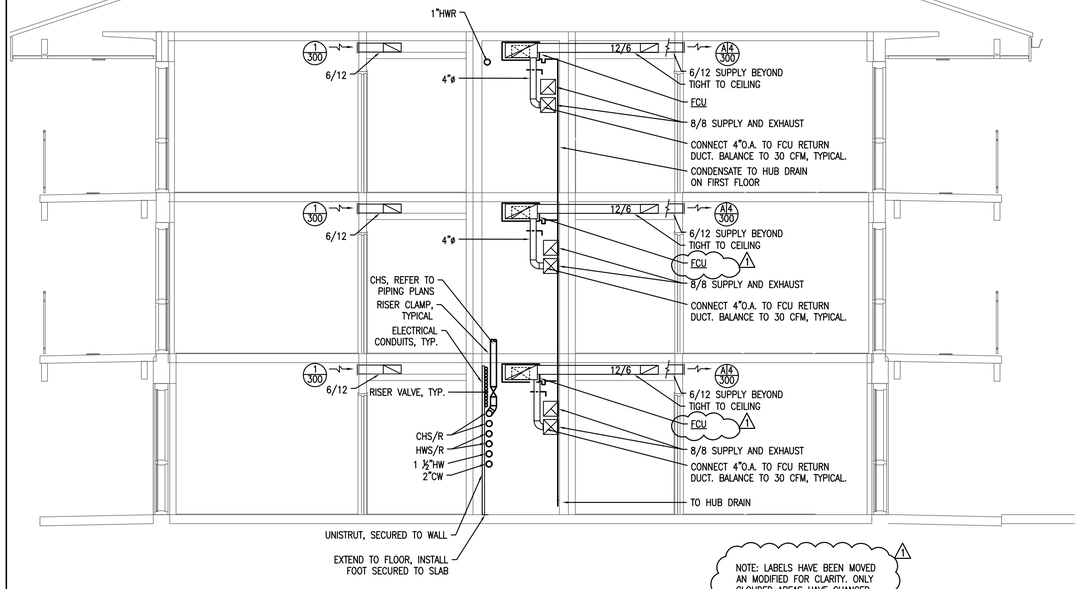


1 MECHANICAL PLAN - THIRD FLOOR
SCALE: 1/8" = 1'-0"

NOTE: LABELS HAVE BEEN MOVED AN MODIFIED FOR CLARITY. ONLY CLOUDED AREAS HAVE CHANGED.

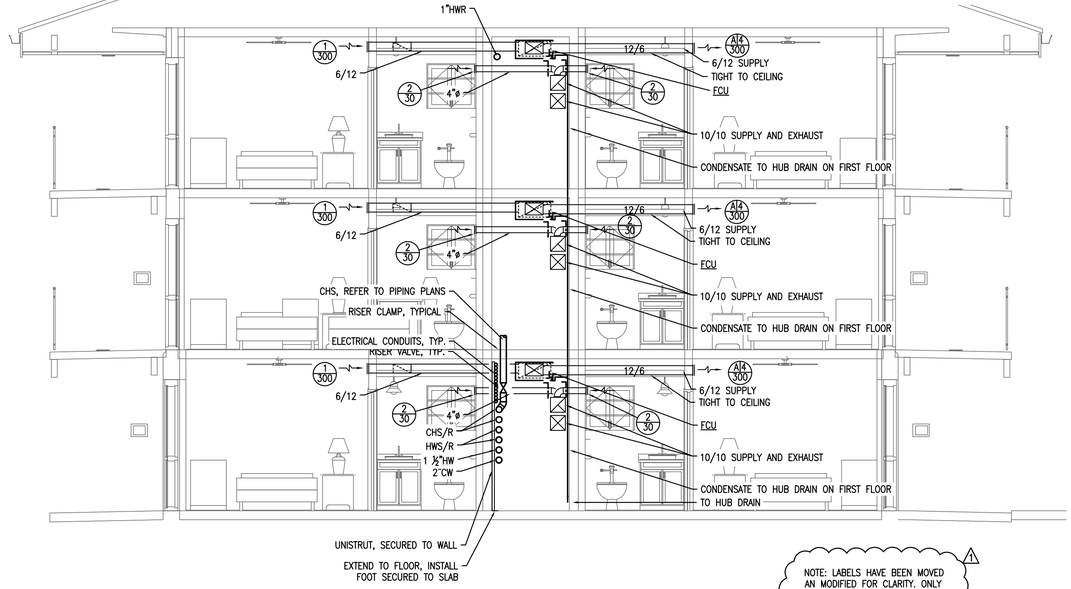
KEYED NOTES:

1. EXHAUST FAN MOUNTED ABOVE CEILING. ROUTE NEW 14/ 14 UP THRU ROOF TO GRAVITY VENTILATOR, GV-1.
2. ROUTE FOUR 4"ø EXHAUST DUCTS TO DRYERS.
3. EXTEND DISCHARGE DUCT TO NEW GRILLE, SIZE TO EQUAL DIMENSIONS OF FAN COIL UNIT.
4. 6/6 OUTSIDE AIR DUCT (BOTTOM) AND EXHAUST DUCT (TOP) STACKED. REFER TO SECTION FOR ADDITIONAL INFORMATION.
5. 8/8 OUTSIDE AIR DUCT (BOTTOM) AND EXHAUST DUCT (TOP) STACKED. REFER TO SECTION FOR ADDITIONAL INFORMATION.
6. 10/10 OUTSIDE AIR DUCT (BOTTOM) AND EXHAUST DUCT (TOP) STACKED. REFER TO SECTION FOR ADDITIONAL INFORMATION.



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2 MECHANICAL PLAN - SECTION
SCALE: 1/4" = 1'-0"



NOTE: LABELS HAVE BEEN MOVED AN MODIFIED FOR CLARITY. ONLY CLOUDED AREAS HAVE CHANGED.

3 MECHANICAL PLAN - SECTION
SCALE: 1/4" = 1'-0"

0' 4' 8' 16'

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

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER NO. 13207 NOAH D. KINDER 2-29-24

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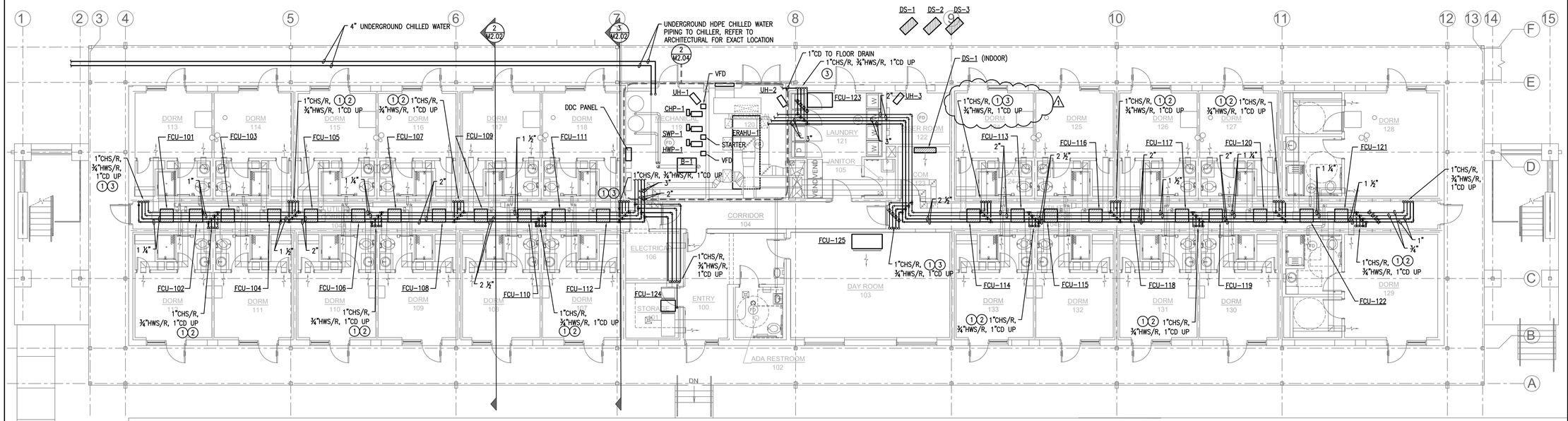
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No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: MECHANICAL PLAN

DRAWN BY: HS, BD	CHK'D DESIGNER: GC
TECH. REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: M2.02
DATE: 29 FEB. 2024	
SCALE: AS NOTED	77 OF 100

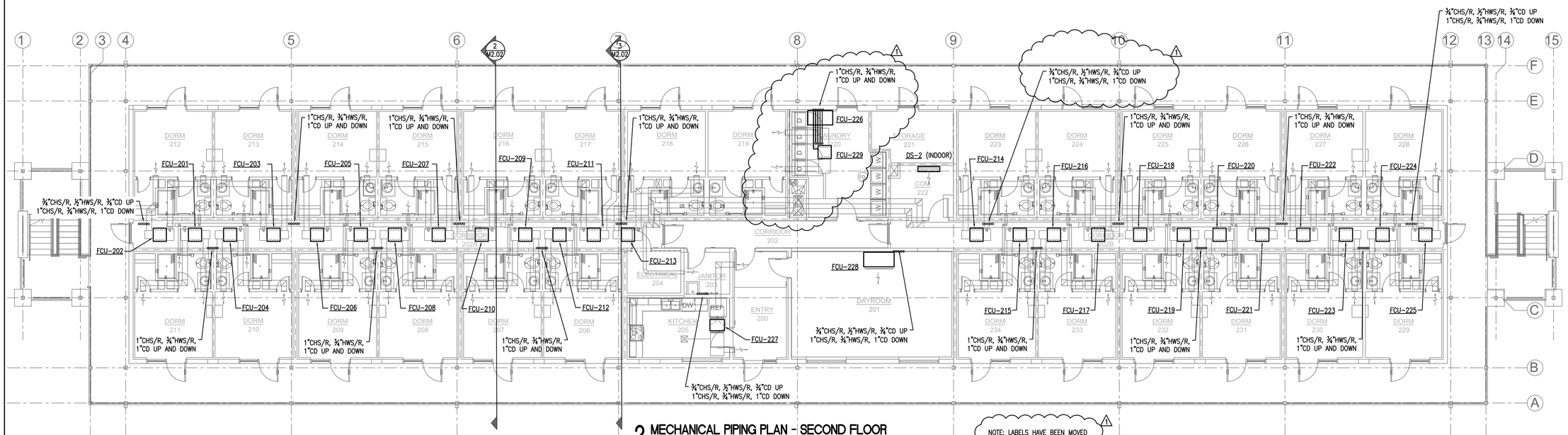


NOTE: LABELS HAVE BEEN MOVED AN MODIFIED FOR CLARITY. ONLY CLOUDED AREAS HAVE CHANGED.

1 MECHANICAL PIPING PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"

KEYED NOTES:

1. HUB DRAIN, RE: PLUMBING. COMBINE ALL CONDENSATE FROM FLOORS ABOVE AND DISCHARGE TO HUB DRAIN.
2. 1 ¼"CHS/R BRANCH WITH BALL VALVES, 1" HWS/R BRANCH WITH BALL VALVES. CONNECT 1ST FLOOR FAN COIL UNITS AND ROUTE PIPING TO UPPER FLOORS.
3. 1"CHS/R BRANCH WITH BALL VALVES, ¾"HWS/R BRANCH WITH BALL VALVES. CONNECT 1ST FLOOR FAN COIL UNITS AND ROUTE PIPING TO UPPER FLOORS.



NOTE: LABELS HAVE BEEN MOVED AN MODIFIED FOR CLARITY. ONLY CLOUDED AREAS HAVE CHANGED.

2 MECHANICAL PIPING PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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10 CORPORATE HILL DR., STE. 100 PH: (501) 244-0511
LITTLE ROCK, AR 72205 FX: (501) 244-0241

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

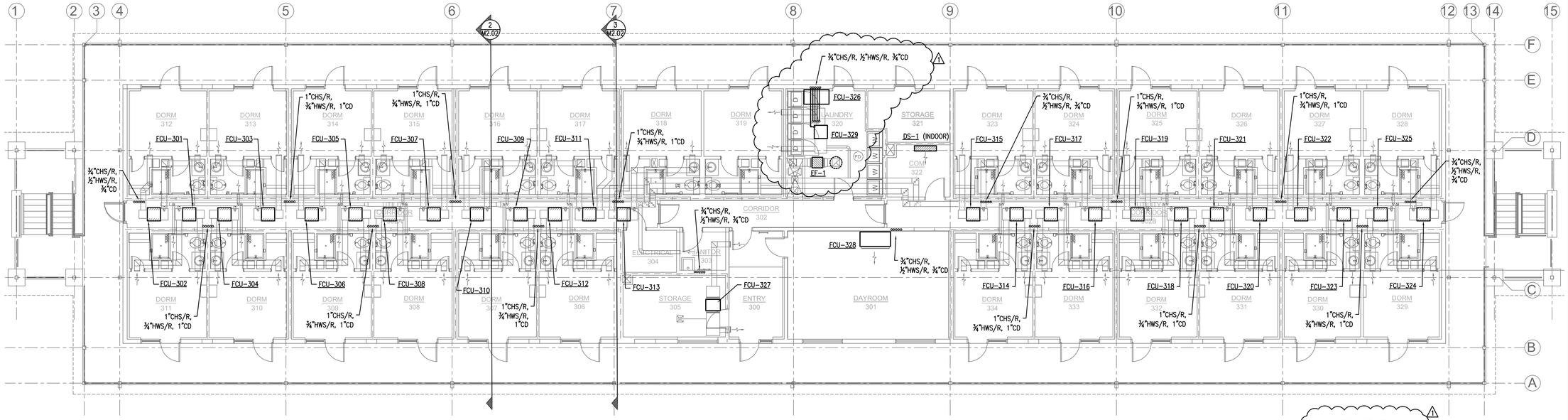
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ARCHITECTURE, INC.
507 MAIN STREET
NORTH LITTLE ROCK, ARKANSAS 72114
PHONE: 501-375-3380
WWW.CLEMENTSARCHITECTS.COM

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 13207
NOAH D. KINDER
2-29-24

No.	Revision/Issue	Date	By
1	100 REVISED SUBMITTAL	4/26/24	APP'D

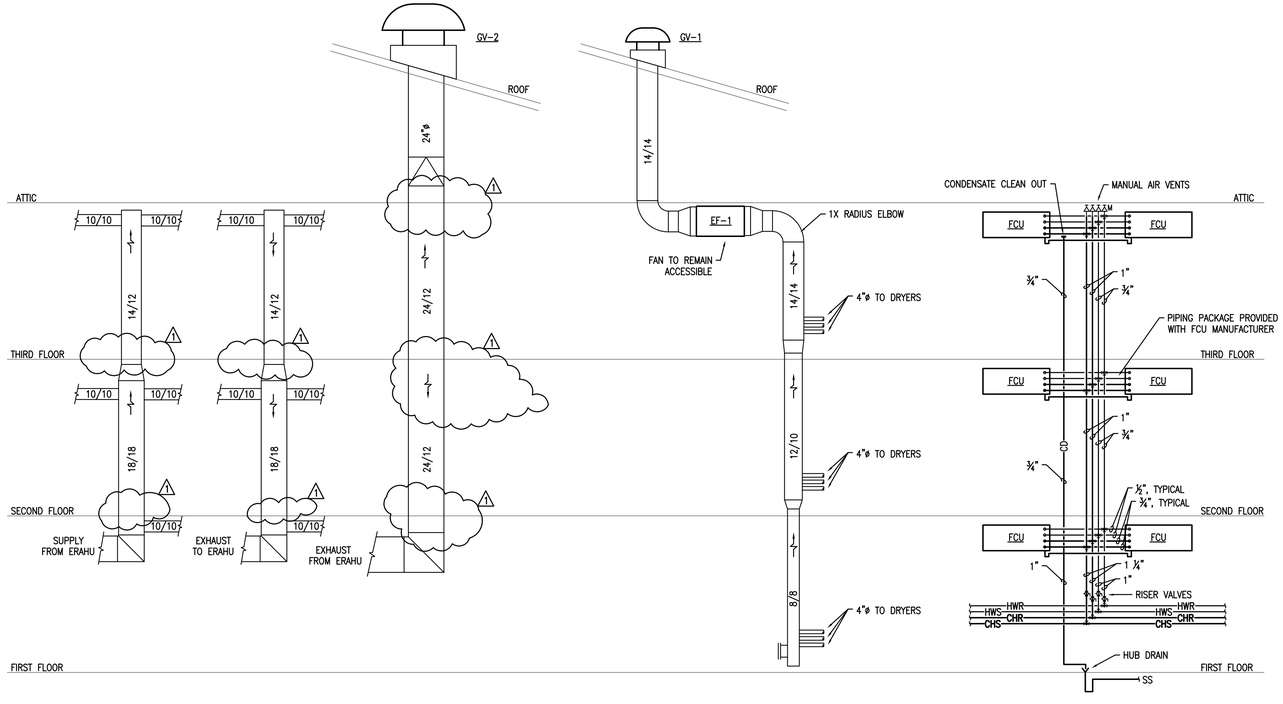
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854
SHEET TITLE: MECHANICAL PIPING PLAN

DESIGNED BY: HS, BD	CHECKED BY: GC
DRAWN BY: HS	PROJECT NUMBER: NKAK 21-1034
APPROVED BY: GC	SHEET: M2.03
DATE: 29 FEB. 2024	
SCALE: AS NOTED	78 OF 100



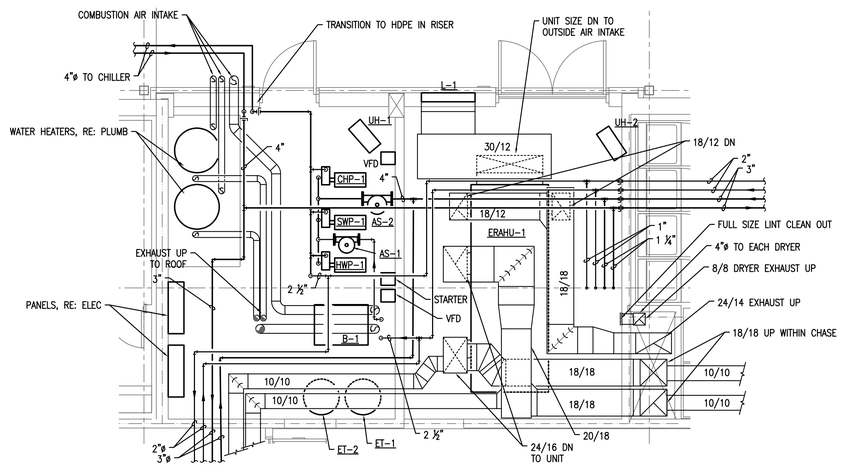
NOTE: LABELS HAVE BEEN MOVED AN MODIFIED FOR CLARITY. ONLY CLOUDED AREAS HAVE CHANGED.

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



DUCT RISERS | DRYER EXHAUST | HVAC PIPING

3 TYPICAL HVAC RISERS
SCALE: NONE



2 MECHANICAL ROOM ENLARGED PLAN
SCALE: 1/4" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

CERTIFICATE OF AUTHORIZATION
ENERGY ENGINEERING CONSULTANTS, INC.
No. 1586
ARKANSAS ENGINEER

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ENERGY ENGINEERING CONSULTANTS, INC.
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LITTLE ROCK, AR 72205 FX: (501) 244-0241

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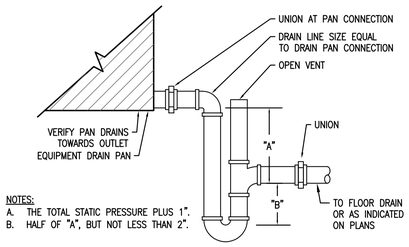
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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 13207
NOAH D. KINDER
2-29-24

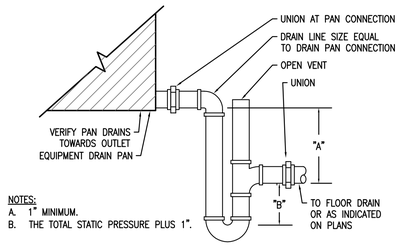
No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854
SHEET TITLE: MECHANICAL PIPING PLAN

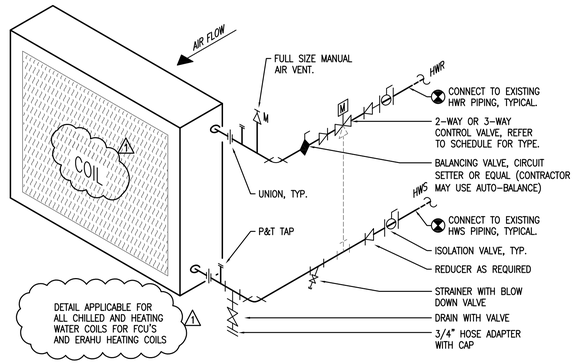
DRAWN BY: HS, BD	LEAD DESIGNER: GC
CHECKED BY: HS	PROJECT NUMBER: NKAK 21-1034
RECORDED BY: GC	SHEET: M2.04
DATE: 29 FEB. 2024	
SCALE: AS NOTED	79 OF 100



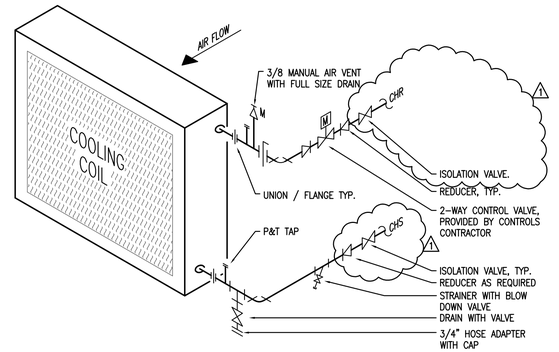
1 DRAW-THRU CONDENSATE DRAIN DETAIL
SCALE: NONE



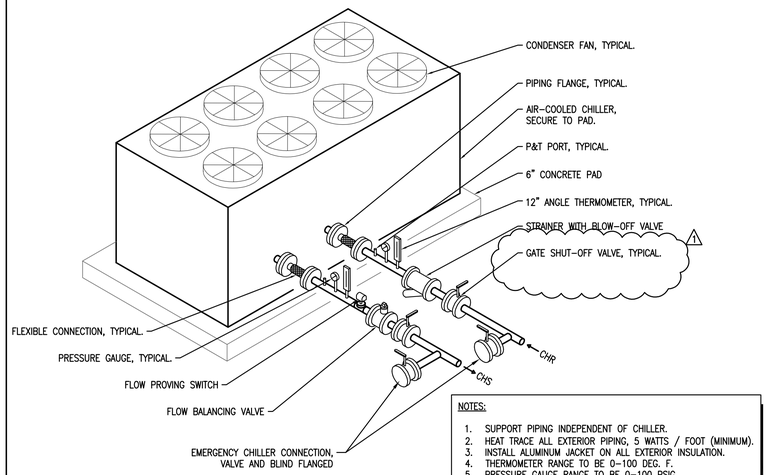
2 BLOW-THRU CONDENSATE DRAIN DETAIL
SCALE: NONE



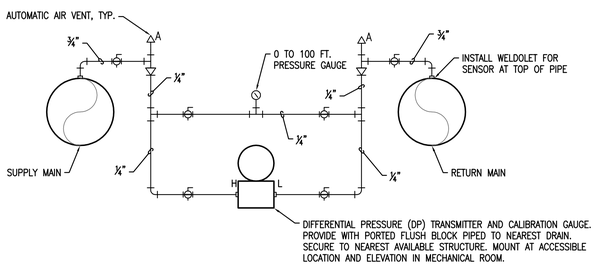
3 FCU - WATER COIL PIPING DETAIL
SCALE: NONE



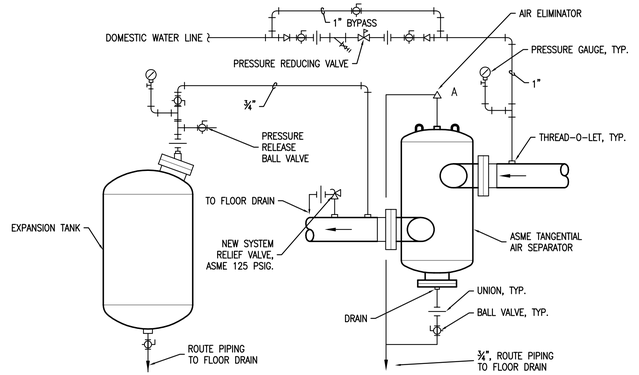
4 CHILLED WATER COIL PIPING DETAIL
SCALE: NONE



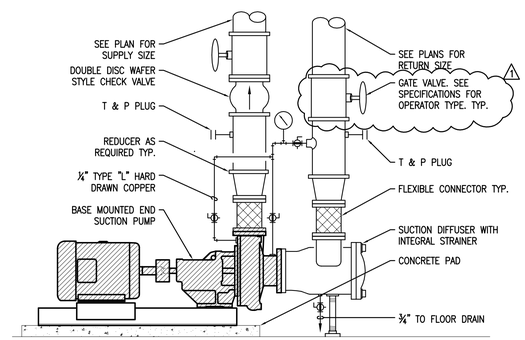
5 AIR-COOLED CHILLER PIPING DETAIL
SCALE: NONE



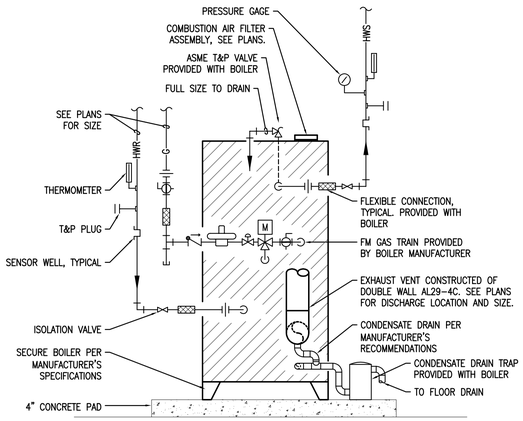
6 DIFFERENTIAL PRESSURE TRANSMITTER DETAIL
SCALE: NONE



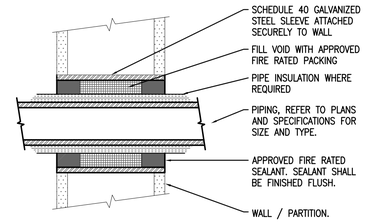
7 AIR CONTROL PIPING DETAIL
SCALE: NONE



8 END SUCTION PUMP DETAIL
SCALE: NONE

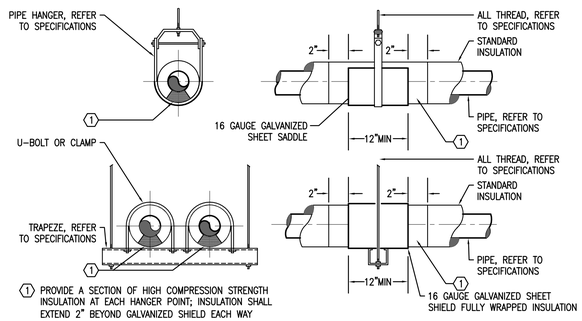


9 HEATING WATER BOILER DETAIL
SCALE: NONE



NOTE: AN ALTERNATE LISTED SYSTEM MAY BE USED IN LIEU OF SHOWN ONLY AFTER SYSTEM HAS BEEN SUBMITTED AND APPROVED.

10 PIPE THRU RATED PARTITION DETAIL
SCALE: NONE



11 INSULATED PIPE HANGER DETAIL
SCALE: NONE

CERTIFICATE OF AUTHORIZATION
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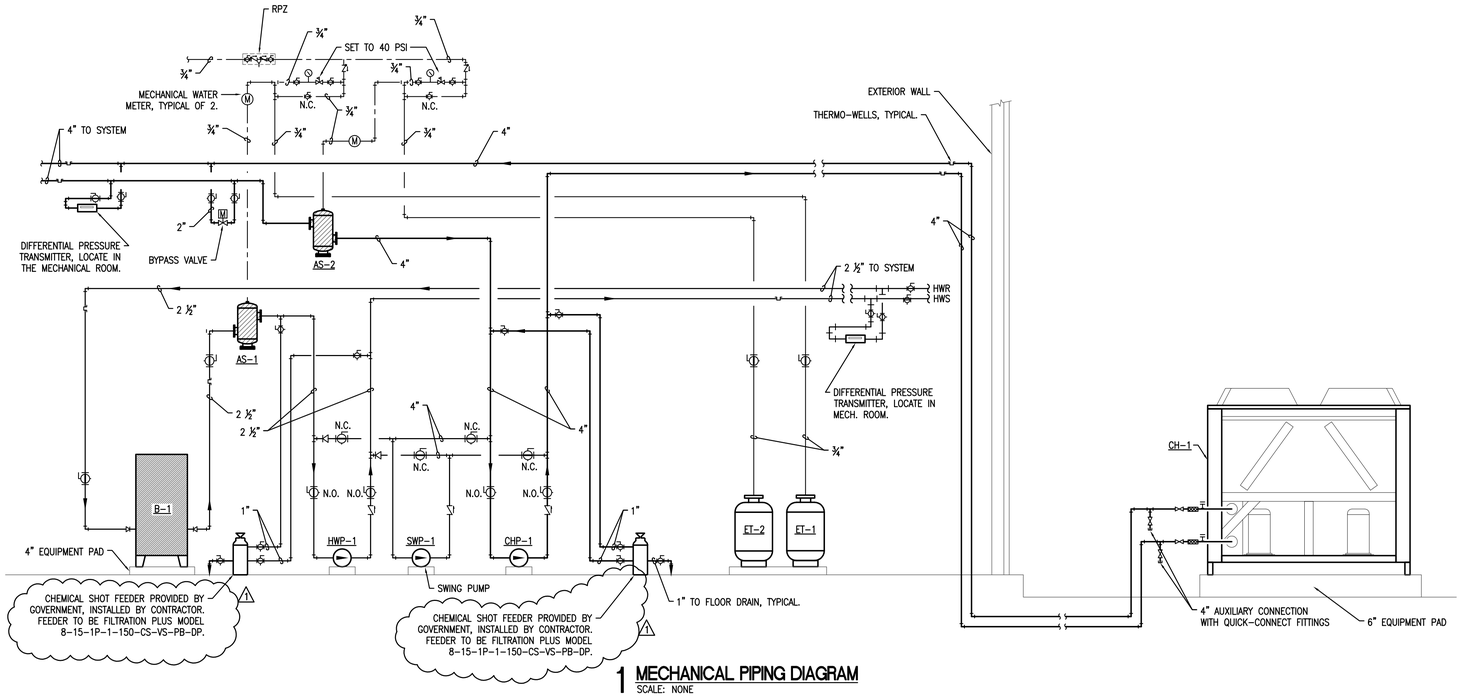
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 13207
NOAH D. KINDER
2-29-24

No.	Revision/Issue	Date	By	Appd
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
MECHANICAL DETAILS

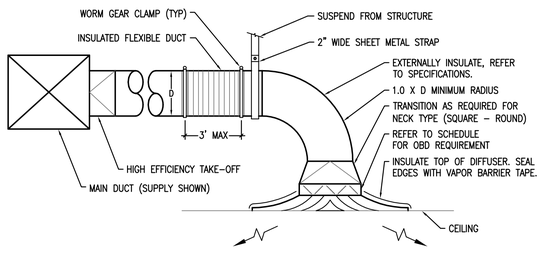
DRAWN BY: HS, BD	LEAD DESIGNER: GC
TECH. REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
ENGINEER: GC	SHEET: M3.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	80 OF 100



1 MECHANICAL PIPING DIAGRAM
SCALE: NONE

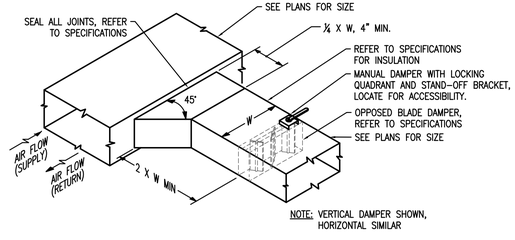
MECHANICAL NOTES

1. ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF LOCAL CODES AND ORDINANCES. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETED AND ACCEPTED.
2. PRIOR TO BID, CONTRACTOR MUST BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THE GENERAL NOTES AS WELL AS ALL OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS. VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO BID AND PRIOR TO ANY DUCT, PIPE OR EQUIP. FABRICATION. SYSTEMS MUST BE ERECTED USING CONTRACTOR'S FIELD MEASUREMENTS FOR COORDINATION WITH EQUIPMENT, STRUCTURE, FIRE PROTECTION & ELEC. CONDITIONS IN THE SPACE.
3. ALL CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE DRAWINGS.
4. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, MUST BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
5. EXCEPT WHERE INDICATED OTHERWISE, THE NOTATION OR DESCRIPTION OF ANY ITEM IN THE CONTRACT DOCUMENTS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.
6. MECHANICAL INSTALLATION MUST MAINTAIN INTEGRITY OF WALLS, PARTITIONS AND FLOORS DESIGNATED AS EITHER FIRE RATED OR "SMOKE TIGHT". SEAL AROUND ALL PENETRATIONS THROUGH RATED OR SMOKE TIGHT ASSEMBLIES. COORDINATE WITH ARCHITECTURAL PLANS AND GENERAL CONTRACTOR.
7. COORDINATE PLACEMENT OF ALL MECHANICAL RELATED EQUIPMENT AND DEVICES WITH OTHER TRADES. DO NOT POSITION OR INSTALL ANY MECHANICAL EQUIP. OR DEVICES IN ANY SYSTEM IN SUCH A WAY THAT IT WILL BE INACCESSIBLE OR UNMAINTAINABLE AFTER CONSTRUCTION IS COMPLETED. PROVIDE DUCT ACCESS DOORS AT FIRE DAMPERS, ETC.
8. NO OTHER TRADES ARE ALLOWED TO BE SUPPORTED FROM MATERIALS, EQUIPMENT OR DEVICES INSTALLED BY THE MECHANICAL TRADES. LIKEWISE, ALL WORK INSTALLED BY THE MECHANICAL TRADES MUST BE SUPPORTED FROM THE STRUCTURE ABOVE, FROM WALLS, OR FROM THE FLOOR UNLESS OTHERWISE INDICATED.
9. REPLACE OR REPAIR ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK. REPAIR OR REPLACEMENT MUST, AS A MINIMUM, EQUAL ORIGINAL CONDITION. SPECIAL CARE MUST BE TAKEN ON THE ROOFS TO PREVENT DAMAGE. ANY DAMAGE MUST BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF THE ROOFING MANUFACTURER.
10. ALL WIRING INSTALLED FOR CONTROLS, POWER, INTERLOCKS, ETC. WHICH ARE TO BE INSTALLED IN RETURN AIR PLENUMS MUST BE PLENUM RATED OR INSTALLED IN CONDUIT UNLESS OTHERWISE INDICATED. ALL WIRING INSTALLED IN OCCUPIED SPACES SHALL BE IN CONDUIT. ALL SUCH INSTALLATIONS MUST MEET NFPA AND NEC REQUIREMENTS, AND LOCAL CODES.
11. ALL MECHANICAL WORK MUST BE INSTALLED HIGH AS POSSIBLE SO AS TO MAINTAIN THE MAXIMUM POSSIBLE CLEARANCE ABOVE FINISHED FLOOR FOR TENANT FINISH-OUT.
12. CEILING MOUNTED LIGHTING AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL AIR DEVICE LOCATIONS.
13. FABRICATION AND INSTALLATION OF HVAC WORK IS TO COMPLY WITH SMACNA AND ALL APPLICABLE CODES.
14. DUCT SIZES SHOWN ON PLANS INDICATE MINIMUM REQUIRED CLEAR INSIDE DIMENSIONS. ADJUST DUCT SIZES FOR LINER THICKNESS WHERE APPLICABLE OR WHERE SHOWN. SEE NOTES AND/OR SPECIFICATIONS FOR INSULATION TYPE AND STANDARDS.
15. PROVIDE DUCT TRANSITIONS AS REQUIRED AT EQUIPMENT AND DEVICE CONNECTIONS WHERE DUCT SIZES INDICATED DIFFER FROM THE DUCT CONNECTION SIZE OR DUCT COLLAR.
16. ALL DUCTS MUST BE MOUNTED HIGH AS POSSIBLE EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING DUCTS. DIAGONALLY OFFSET ALL DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING DUCTS OR LARGE STRUCTURAL MEMBERS TO MAINTAIN MAXIMUM HEIGHT ABOVE FINISHED FLOOR (AFF).
17. COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS WITH WALL MOUNTED DEVICES AND OWNER'S REPRESENTATIVE. MOUNT THERMOSTATS AT 48" AFF. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL MUST BE MOUNTED ON AN INSULATED PAD. 1
18. BALANCE MECHANICAL SYSTEMS TO PROVIDE INDICATED FLOWS. SEE SPECIFICATIONS FOR OTHER TEST AND BALANCE REQUIREMENTS. SUBMIT FINAL BALANCE REPORT OF MECHANICAL SYSTEMS (FLOW AND TEMPERATURE) FOR REVIEW.



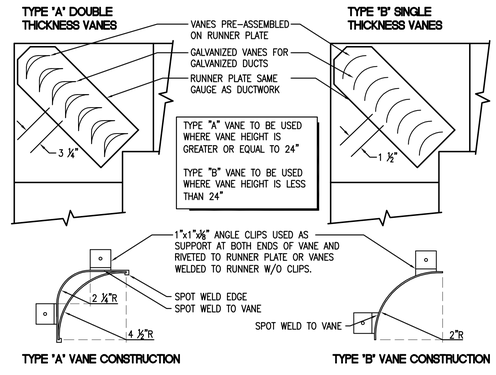
NOTE: SUPPLY SHOWN, RETURN AND EXHAUST SIMILAR.

2 CEILING DIFFUSER DETAIL
SCALE: NONE



NOTE: VERTICAL DAMPER SHOWN, HORIZONTAL SIMILAR

3 RECTANGULAR DUCT TAKE-OFF DETAIL
SCALE: NONE



4 DUCT TURNING VANE DETAIL
SCALE: NONE

CERTIFICATE OF AUTHORIZATION — ENERGY ENGINEERING CONSULTANTS, INC. No. 1586 — ARKANSAS ENGINEER

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER NO. 13207 NOAH D. KINDER 2-29-24

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: MECHANICAL DETAILS

DRAWN BY: HS, BD	CHK'D BY: GC
TECH. REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: M3.02
DATE: 29 FEB. 2024	
SCALE: AS NOTED	81 OF 100

HYDRONIC SYSTEM SEQUENCE OF OPERATION:

GENERAL:

THE CHILLED WATER SYSTEM CONSISTS OF A VARIABLE PRIMARY PUMPING SYSTEM COMPRISED OF ONE PUMP COUPLED WITH AN AIR COOLED CHILLER. THE HEATING WATER SYSTEM IS A VARIABLE PRIMARY PUMPING SYSTEM COMPRISED OF ONE PUMP COUPLED WITH ONE CONDENSING STYLE BOILER.

CHILLED WATER PUMP:

THE CHILLED WATER PUMP'S SPEED SHALL BE MODULATED TO MAINTAIN THE DIFFERENTIAL PRESSURE (ADJUSTABLE) REQUIRED FOR ADEQUATE FLOW DETERMINED BY THE TAB CONTRACTOR.

CHILLED WATER BYPASS:

NO CHILLED WATER BYPASS, MINIMUM CHILLER FLOW MAINTAINED VIA 3-WAY VALVES.

CHILLER:

THE CHILLER SHALL BE EQUIPPED WITH EQUIPMENT CONTROL SUPPLIED BY THE MANUFACTURE TO SEQUENCE THE COMPRESSORS BASED ON THE ACTUAL LOAD. ONCE FLOW VERIFICATION IS ACHIEVED, THE STAND-A-LONE CONTROL SHALL SEQUENCE COMPRESSORS AND FANS TO MAINTAIN A SUPPLY TEMPERATURE OF 44 DEGREES (ADJUSTABLE). THE EMS SHALL INTERLOCK WITH CHILLER CONTROLS FOR START/STOP AND ALARM MONITORING.

HEATING WATER PUMP:

THE HEATING WATER PUMP'S SPEED SHALL BE MODULATED TO MAINTAIN THE DIFFERENTIAL PRESSURE (ADJUSTABLE) REQUIRED FOR ADEQUATE FLOW DETERMINED BY THE TAB CONTRACTOR.

SWING PUMP:

SWING PUMP IS TO ONLY BE UTILIZED DURING SERVICING OF EITHER CHILLED OR HEATING WATER PUMP. THE PUMP IS TO BE MANUALLY STARTED AFTER ASSOCIATED VALVES ARE OPENED (EITHER CHILLED OR HEATING WATER SYSTEM).

BOILER:

THE BOILER SYSTEM SHALL START AND STOP UPON EMS COMMAND. THE BOILER CONTROLLER SHALL STAGE THE BOILER'S RATE OF FIRE AS NEEDED TO MEET THE FACILITY'S LOAD. THE FLOW VERIFICATION SHALL BE SATISFIED PRIOR TO BOILER OPERATION. THE SYSTEM'S FIRE RATE (% FIRE) SHALL BE MODULATED TO MAINTAIN THE LEAVING WATER TEMPERATURE AT SETPOINT. THE LEAVING WATER TEMPERATURE SHALL BE DETERMINED BY THE EMS THROUGH THE GLOBAL TEMPERATURE SENSOR AND SHALL SEND THE SETPOINT TO THE BOILER CONTROL SYSTEM (4ma and 20ma). THE HEATING WATER SUPPLY TEMPERATURE SHALL BE 140 DEG. F (ADJUSTABLE) WHEN THE OUTSIDE AIR TEMPERATURE IS AT OR BELOW 50 DEG. F (ADJUSTABLE). WHEN THE OUTSIDE AIR TEMPERATURE RISES ABOVE 50 DEG. F. (ADJUSTABLE), THE SUPPLY TEMPERATURE SHALL BE RESET DOWN LINEARLY 5 DEG. F (ADJUSTABLE) SUPPLY TEMPERATURE FOR EVERY 1 DEG. F (ADJUSTABLE) CHANGE IN OUTSIDE AIR TEMPERATURE TO 110 DEG. F. (ADJUSTABLE) AT 60 DEG. F (ADJUSTABLE). WHEN THE OUTSIDE AIR TEMPERATURE FALLS BELOW 60 DEG. F (ADJUSTABLE), THE SUPPLY TEMPERATURE SHALL RESET UP LINEARLY AT THE SAME RATE AS IT RESETS DOWN UNTIL IT REACHES 140 DEG. F (ADJUSTABLE) AT AN OUTSIDE AIR TEMPERATURE OF 50 DEG. F (ADJUSTABLE).

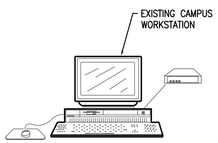
CONTROLS LEGEND

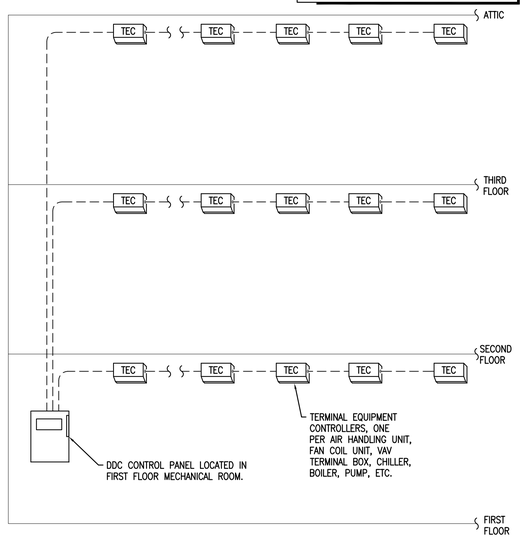
AI	ANALOG INPUT	TEC	TERMINAL EQUIPMENT CONTROLLER
AO	ANALOG OUTPUT		TEMPERATURE SENSOR
DI	DIGITAL INPUT		FLOW SWITCH
DO	DIGITAL OUTPUT	M	2-WAY CONTROL VALVE
T	THERMOSTAT	M	3-WAY CONTROL VALVE
TS	TEMPERATURE SENSOR		DAMPER ACTUATOR
	TEMPERATURE SENSOR		SMOKE DETECTOR
	AVERAGING TEMPERATURE SENSOR		DIFFERENTIAL PRESSURE TRANSMITTER
	HUMIDITY SENSOR		PRESSURE SWITCH / SENSOR

WORKSTATION:

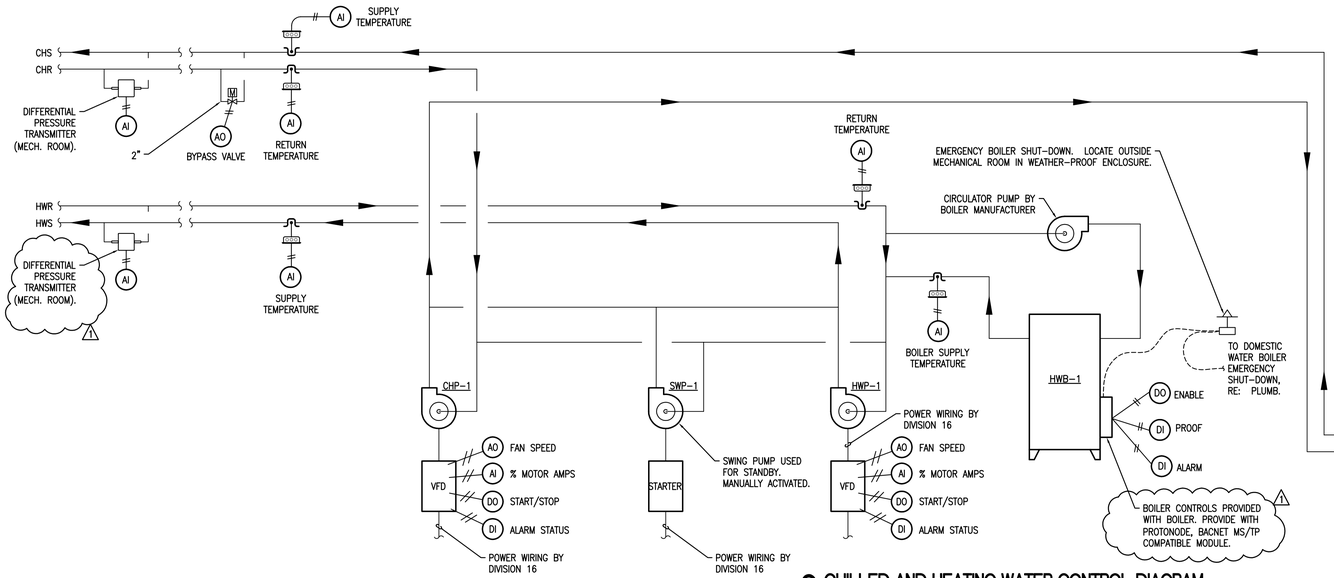
THE CONTROLS CONTRACTOR SHALL INSTALL A NEW COMPLETE CONTROLS SYSTEM FOR THIS BUILDING AND SHALL PROVIDE A NEW WORKSTATION AT THE LOCATION OF THE EXISTING CAMPUS ENERGY MANAGEMENT SYSTEM (FIELD VERIFY LOCATION). LIVE GRAPHICS FOR THE NEW WORKSTATION SHALL INCLUDE THE FOLLOWING POINTS PER PIECE OF EQUIPMENT:

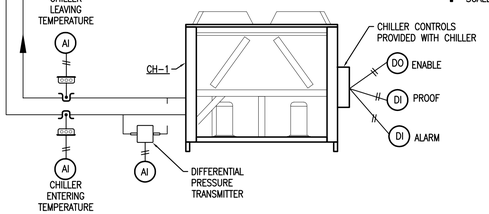
AIR HANDLERS, FAN COIL UNITS, CHILLERS, BOILERS, PUMPS, AND POINTS INDICATED ON DIAGRAMS.





1 CONTROL RISER DIAGRAM
SCALE: NONE





2 CHILLED AND HEATING WATER CONTROL DIAGRAM
SCALE: NONE

ENERGY RECOVERY AIR HANDLING UNITS (ERAHU-#) SEQUENCE OF OPERATION:

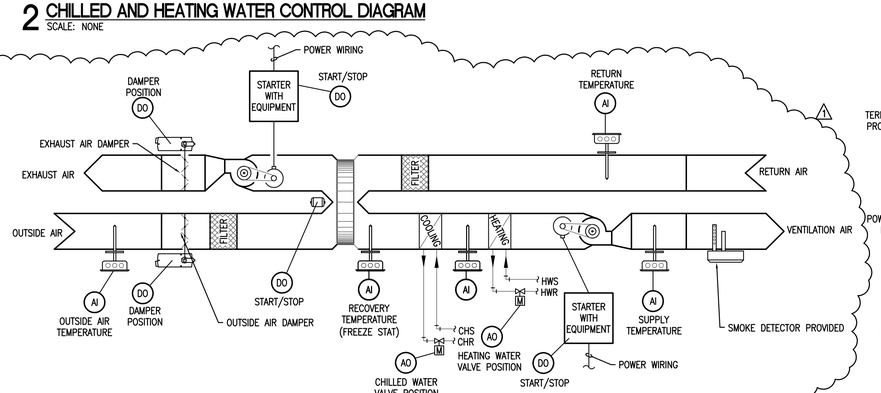
UNITS SHALL BE CONTROLLED VIA FACTORY MOUNTED MICROPROCESSOR CONTROLLER. UNIT SHALL BE CAPABLE OF STAND-A-LONE OPERATION WITH NETWORK COMPATIBILITY SPECIFIED BY CONTROLS CONTRACTOR (TRANE BACNET). UNIT SHALL BE STARTED AND STOPPED UPON SIGNAL OF THE EMS (TYPICALLY TO OPERATE 24/7). WHEN UNIT IS NOT IN OPERATION THE ISOLATION DAMPERS ARE TO BE CLOSED.

WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE 80 DEGREES F (ADJUSTABLE) THE CONTROLLER SHALL MODULATE THE CHILLED WATER VALVE TO MAINTAIN THE SUPPLY AIR TEMPERATURE AT 55 DEGREES F (ADJUSTABLE). THE REHEAT VALVE SHALL BE LOCKED OUT AND THE ENTHALPY WHEEL SHALL BE IN OPERATION.

WHEN THE OUTSIDE AIR TEMPERATURE FALLS BELOW 55 DEGREES F THE CHILLED WATER VALVE SHALL BE CLOSED AND THE HEATING CONTROL VALVE MODULATED TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 70 DEGREES F (ADJUSTABLE).

WHEN THE OUTSIDE AIR TEMPERATURE FALLS BETWEEN 55 AND 80 DEGREES F THE CHILLED WATER VALVE IS TO BE MODULATED TO MAINTAIN A COIL LEAVING TEMPERATURE OF 55 DEGREES AND THE HEATING WATER VALVE IS TO BE MODULATED TO MAINTAIN A UNIT DISCHARGE TEMPERATURE OF 70 DEGREES F.

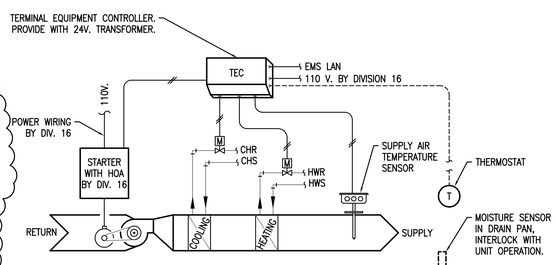
FREEZE CONTROL: IF THE ENTERING COIL TEMPERATURE FALLS BELOW 38 DEGREES F. THE SUPPLY FAN IS TO STOP AND ISOLATION DAMPER TO CLOSE (EXHAUST FAN TO REMAIN OPERATIONAL). THE UNIT MUST BE MANUALLY RESET AS CONDITION INDICATES ENTHALPY WHEEL FAILURE.



1 ENERGY RECOVERY AIR HANDLING UNIT CONTROL DIAGRAM
SCALE: NONE

FAN COIL UNIT SEQUENCE OF OPERATION:

THE TERMINAL UNIT CONTROLLER SHALL SEQUENCE THE FAN SPEED (OFF, LOW, MEDIUM, AND HIGH) AND MODULATE THE CHILLED WATER AND HEATING WATER VALVES TO MAINTAIN THE SPACE TEMPERATURE. INTERLOCK MOISTURE SENSOR TO SHUT DOWN UNIT AND ALARM UPON WATER DETECTION IN DRAIN PAN.



3 FAN COIL UNIT CONTROL DIAGRAM (4-PIPE)
SCALE: NONE

VARIABLE FREQUENCY DRIVES

DESIGNATION	REFERENCE PRODUCT	LOCATION	SERVES	TYPE	RATED HORSEPOWER	EFFICIENCY (%)	ELECTRICAL		REMARKS
							VOLTS	PHASE	
VFD-HWP-1	ABB ACH-550	MECHANICAL RM. BASEMENT	HWP-1	PWM	5	96	208	3	FURNISH WITH INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND CONTROL INTERFACE WITH EMS.
VFD-CHP-1	ABB ACH-550	MECHANICAL RM. BASEMENT	CHP-1	PWM	7.5	96	208	3	FURNISH WITH INPUT DISCONNECT SWITCH, INPUT LINE REACTORS, AND CONTROL INTERFACE WITH EMS.

NOTES:
1. VARIABLE FREQUENCY DRIVES SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR.
2. ALL VARIABLE FREQUENCY DRIVES WITHIN THIS PROJECT SHALL BE OF THE SAME SERIES, PROVIDE 2-YEAR PARTS WARRANTY.

CERTIFICATE OF AUTHORIZATION — ENERGY ENGINEERING CONSULTANTS, INC. No. 1586 — ARKANSAS ENGINEER

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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — NO. 13207 — NOAH D. KINDER — 2-29-24

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: MECHANICAL CONTROLS

DRAWN BY: HS, BD	LEAD DESIGNER: GC
QUALITY REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
APPROVED BY: GC	SHEET: M3.03
DATE: 29 FEB. 2024	
SCALE: AS NOTED	82 OF 100

MECHANICAL LEGEND

- POINT OF CONNECTION – NEW TO EXISTING
- A/D — ACCESS DOOR
- T — THERMOSTAT
- H — HUMIDISTAT
- C — CARBON DIOXIDE SENSOR
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- HWS — HEATING HOT WATER SUPPLY
- HWR — HEATING HOT WATER RETURN
- CD — CONDENSATE DRAIN (COLD)
- PIPE UP
- PIPE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- STRAINER WITH BLOWDOWN VALVE
- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- OS&Y VALVE
- CHECK VALVE
- LEVER OPERATED BUTTERFLY VALVE
- GEAR OPERATED BUTTERFLY VALVE
- 3-WAY ELECTRIC CONTROL VALVE
- 2-WAY ELECTRIC CONTROL VALVE
- VALVE IN RISER (BALL, BUTTERFLY)
- PIPE GUIDE
- CAP ON END LINE
- M — MANUAL AIR VENT
- A — AUTOMATIC AIR VENT
- PRESSURE GAUGE WITH GAUGE COCK
- THERMOMETER
- FLEXIBLE CONNECTION

- SECTION / ELEVATION REFERENCE — X / XX.XX — INDICATES DIRECTION OF SECTION; SECTION DETAIL NUMBER; REFERRED SHEET NUMBER
- SUPPLY DIFFUSER/GRILLE LABEL: A1 / 100 — MARK; THROW PATTERN; AIRFLOW (CFM)
- RETURN DIFFUSER/GRILLE LABEL: 2 / 100 — MARK; AIRFLOW (CFM)
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST GRILLE
- 14"ø — ROUND DUCTWORK. DIAMETER IN INCHES.
- 14/12 — RECTANGULAR DUCTWORK. SIZE IN INCHES, FIRST NUMBER IS SIDE SHOWN.
- 14/12 — FLAT OVAL DUCTWORK. SIZE IN INCHES, FIRST NUMBER IS MAJOR AXIS (SIDE SHOWN).
- MITERED ELBOW WITH TURNING VANES.
- 1.5X RADIUS DUCTWORK ELBOW – ROUND OR RECTANGULAR.
- RECTANGULAR DUCTWORK BRANCH TAKE-OFF WITH 45 DEGREE BRANCH INLET.
- HIGH EFFICIENCY TAP WITH DAMPER.
- FD — FIRE DAMPER / ACCESS DOOR (A/D)
- VOLUME DAMPERS
- M — MOTORIZED DAMPER

DUCTLESS SPLIT HEAT PUMP, COOLING ONLY

DESIGNATION	REFERENCE PRODUCT	TYPE	SERVES	AIR FLOW RATE (CFM)	COOLING			ELECTRICAL DATA					REMARKS
					NOMINAL CAPACITY (TONS)	SENSIBLE/TOTAL CAPACITY (MBH)	AIR EDB/EWB (DEG. F)	MINIMUM SEER	INDOOR UNIT		OUTDOOR UNIT		
									VOLTS / PHASE	MCA	VOLTS / PHASE	MCA	MCOP	
DS-1, DS-2, DS-3	TRANE 4MXA/PUY-A18	WALL MOUNTED	COMM	425	1.5	18.2 / 11.4	80 / 67	18.5	208 / 1	<3	208 / 1	11.4	15	

NOTES:
1. FIELD ROUTE REFRIGERANT LINE SET BETWEEN INDOOR / OUTDOOR UNITS (SIZED PER MANUFACTURER RECOMMENDATION).
2. PROVIDE WALL MOUNT T'STAT, COMPRESSOR SHORT CYCLE PROTECTOR, HIGH AND LOW PRESSURE PROTECTIONS, AND 1-YEAR WARRANTY FOR REFRIGERATION SYSTEM.
3. ELECTRICAL DISCONNECT BY ELECTRICAL CONTRACTOR.

AIR COOLED CHILLERS

DESIGNATION	REFERENCE PRODUCT	TYPE	REFRIGERANT	WEIGHT (LBS)	COOLING DATA					EVAPORATOR FLOW DATA				ELECTRICAL DATA				REMARKS
					NOMINAL TONS	FULL LOAD CAPACITY (TONS)	AMBIENT AIR TEMPERATURE (DEG. F)	FULL LOAD EER	IPLV / NPLV	DESIGN FLOW RATE (GPM)	PRESSURE DROP (FEET)	MINIMUM FLOW RATE (GPM)	EVAPORATOR EWT/LWT (DEG. F)	VOLTS / PHASE	MCA	MOCP	STARTER TYPE	
CH-1	TRANE CGAM	SCROLL	HFC-410A	5,692	80	67.6	95		15.4 / 14.1	200	12.1	64.2	54 / 42	208 / 3	354	400	ACROSS THE LINE	SELECTED WITH 30% PROPYLENE GLYCOL

NOTES:
1. PROVIDE EACH UNIT WITH SINGLE POINT POWER CONNECTION WITH BREAKER DISCONNECT.
2. PROVIDE EACH UNIT WITH COMPRESSOR SHORT CYCLE PROTECTION, LOW PRESSURE CUT OFF SWITCH AND FLOW VERIFICATION.
3. PROVIDE 5 YEAR EXTENDED PARTS WARRANTIES ON ALL REFRIGERANT COMPRESSORS.
4. PROVIDE 110V HEAT TRACE FOR FREEZE PROTECTION.
5. PROVIDE FACTORY REGRIGERANT TERMINATION, SYSTEM CHARGE, AND STARTUP.

ELECTRIC UNIT HEATERS

DESIGNATION	REFERENCE PRODUCT	HEATING SECTION			FAN DATA		ELECTRICAL		OPTIONS			REMARKS
		HEAT INPUT (KW)	HEAT INPUT (BTU/hr)	AIR THROW (FEET)	AIR FLOW (CFM)	STATIC PRESSURE (INCHES W.C.)	VOLTS / PHASE	FLA	THERMOSTAT TYPE	MANUAL FAN SWITCH	DISCONNECT SWITCH	
UH-1, UH-2, UH-3	MARKEL 51 SERIES	3.3	11.2	4	400	---	208 / 1	15.9	WALL	NO	NO	

NOTES:
1. ACCEPTABLE MANUFACTURERS: MARKEL, TRANE, PRE-APPROVED EQUAL.
2. UNIT DISCONNECT PROVIDED BY ELECTRICIAN.
3. PROVIDE UNIT HEATERS WITH HANGING KIT AND WALL MOUNTED THERMOSTAT.

PUMPS

DESIGNATION	REFERENCE PRODUCT	LOCATION	TYPE	SERVES	WATER FLOW RATE (GPM)	TOTAL HEAD (FT. WATER)	ROTATION (RPM)	EFFICIENCY AT DESIGN (%)	MOTOR SIZE		ELECTRICAL		REMARKS
									BHP	MHP	VOLTS	PHASE	
HWP-1	PACO 159597LC	MECHANICAL	END SUCTION	HEATING WATER	75	80	1800	65.0	2.4	5	208	3	
SWP-1	PACO 25957LC	MECHANICAL	END SUCTION	SWING PUMP	200	75	1800	77.00	4.9	7.5	208	3	
CHP-1	PACO 25957LC	MECHANICAL	END SUCTION	CHILLED WATER	200	75	1800	77.00	4.9	7.5	208	3	

1. ACCEPTABLE MANUFACTURERS: ARMSTRONG, BELL & GOSSETT, PACO, AND TACO.
2. PROVIDE END SUCTION PUMPS WITH SUCTION DIFFUSER.

EXPANSION TANKS

DESIGNATION	REFERENCE PRODUCT	LOCATION	SERVES	TYPE	MINIMUM TEMPERATURE (DEG F.)	MAXIMUM TEMPERATURE (DEG F.)	MINIMUM PRESSURE (PSIG)	MAXIMUM PRESSURE (PSIG)	REQUIRED ACCEPTANCE (GAL)	TANK VOLUME (GAL)	TANK DIAMETER (IN.)	TANK HEIGHT (IN.)	REMARKS
ET-1	TACO CA140-125	BASEMENT MECHANICAL	HEATING WATER	DIAPHRAGM	50	180	30	60	15.5	37	16	40	LOCATE ON EQUIPMENT PAD.
ET-2	TACO CA90-125	BASEMENT MECHANICAL	CHILLED WATER	DIAPHRAGM	40	100	30	60	6.5	23	16	29	LOCATE ON EQUIPMENT PAD.

NOTES:
1. ACCEPTABLE MANUFACTURERS: AMTROL, ARMSTRONG, TACO, AND WHEATLEY.
2. COORDINATE EXISTING MAKEUP PRESSURE WITH PRECHARGE OF EXPANSION TANK.

LOUVER SCHEDULE

DESIGNATION	REFERENCE PRODUCT	TYPE	MAXIMUM AIRFLOW (CFM)	PRESSURE DROP (IN. WATER)	MINIMUM FREE AREA (SQ FT.)	SIZE W x H (INCHES)	REMARKS
L-1	RUSKIN L6375D	DRAINABLE BLADE	2,500	0.08	4.5	36 x 36	

NOTES:
1. ACCEPTABLE MANUFACTURERS: AMERICAN WARMING, GREENHECK, AND RUSKIN.
2. ALL MOTORIZED DAMPER ACTUATORS SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR.
3. ALL LOUVERS SHALL BE OF ALUMINUM CONSTRUCTION.
4. PAINT / FINISH TO MATCH BUILDING. COORDINATE WITH ARCHITECT.

HEATING WATER BOILER

DESIGNATION	REFERENCE PRODUCT	LOCATED	FUEL TYPE	HEATING DATA				ELECTRICAL		REMARKS
				NAT. GAS INPUT (MBH)	HEATING OUTPUT (MBH)	EWT / LWT DEG. F.	WATER FLOW (GPM)	VOLTS / PHASE	AMPS	
B-1	RAYPAK X1IRE 800	MECH	NATURAL GAS	800	768	140 / 120	75	115 / 1	13	6" PVC FLUE. PROVIDE WITH 50 GPM PRIMARY PUMP.

NOTES:
1. NOTE: HEATING OUTPUT IS MAX AND NOT BASED ON OPERATING CONDITIONS.
2. PROVIDE UNITS WITH A MINIMUM OF A 5:1 TURNDOWN, ASME RELIEF, AND DISCONNECT.
3. PROVIDE UNITS WITH FM APPROVED GAS TRAIN AND FACTORY STARTUP.
4. REFER TO CONTROL DRAWINGS AND SPECIFICATIONS FOR CONTROLS REQUIRED. PROVIDE BACNET INTEGRATION MODULE.

GRAVITY VENTILATORS

DESIGNATION	REFERENCE PRODUCT	LOCATION	TYPE	SERVES	VLOUME (CFM)	THROAT WIDTH (INCHES)	THROAT LENGTH (INCHES	THROAT AREA (SQ. FEET)	THROAT VELOCITY (FT / MIN)	REMARKS
GV-1	COOK 20PR	ROOF	EXHAUST	DRYERS	1,200	20"ø	---	2.2	550.3	
GV-2	COOK 24TR	ROOF	EXHAUST	RELIEF AIR	2,500	24"ø	---	3.1	796.2	

1. ACCEPTABLE MANUFACTURERS: ACME, COOK, AND GREENHECK.
2. PROVIDE UNITS WITH ROOF CURB. COORDINATE WITH ROOF TYPE AND PITCH.

AIR SEPARATORS

DESIGNATION	REFERENCE PRODUCT	LOCATION	SERVES	TYPE	INLET / OUTLET SIZE (INCHES)	MAXIMUM PRESSURE LOSS (FEET)	REMARKS
AS-1	AMTROL 3-AS	FIRST FLOOR MECHANICAL	HEATING WATER	TANGENTIAL WITH STRAINER	3	5.8	
AS-2	AMTROL 4-AS	FIRST FLOOR MECHANICAL	CHILLED WATER	TANGENTIAL WITH STRAINER	4	4.3	

NOTES:
1. ACCEPTABLE MANUFACTURERS: AMTROL, ARMSTRONG, BELL & GOSSETT, TACO, AND WHEATLEY.
2. PROVIDE WITH HIGH CAPACITY AIR VENT AND MANUAL BLOW DOWN VALVE.

EXHAUST FANS

MARK	REFERENCE PRODUCT	TYPE	SERVES	FAN DATA					ELECTRICAL		REMARKS
				AIR FLOW (CFM)	TOTAL STATIC PRESSURE (IN. WATER)	DRIVE	ROTATION (RPM)	SONES	VOLTS / PHASE	MOTOR SIZE (MHP)	
EF-1	COOK 135SQN	IN-LINE	DRYERS	1200	1/4	DIRECT	1,102	8.6	115 / 1	1/8	PROVIDE WITH SPEED CONTROLLER. UNIT SHALL TYPICALLY OPERATE 24/7.

NOTES:
1. ACCEPTABLE MANUFACTURERS: ACME, COOK, GREENHECK, AND TWIN CITY.
2. PROVIDE INLINE FANS WITH ISOLATION HANGER KITS, DISCONNECTS AND FLEXIBLE CONNECTIONS.

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REGISTERED PROFESSIONAL ENGINEER
NO. 13207
NOAH D. KINDER
2-29-24

CERTIFICATE OF AUTHORIZATION
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No. 1586
ARKANSAS ENGINEER

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No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: MECHANICAL SCHEDULES

DRAWN BY: HS, BD	LEAD DESIGNER: GC
CHECKED BY: HS	CONTRACT NUMBER: NKAK 21-1034
APPROVED BY: GC	SHEET: M4.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	83 OF 100

FAN COIL / BLOWER COIL UNITS - FOUR PIPE (1 OF 2)

DESIGNATION	REFERENCE PRODUCT	TYPE	AIRFLOW DATA			COOLING DATA					HEATING DATA						ELECTRICAL DATA		REMARKS
			TOTAL AIRFLOW (CFM)	EXTERNAL PRESSURE (IN. WATER)	FILTER TYPE	COOLING TOT/SENS (MBH)	AIR EDB/EWB (DEG. F)	WATER EWT/LWT (DEG. F)	WATER FLOW RATE (GPM)	WATER PRESSURE DROP (FT. WATER)	TOTAL CAPACITY (MBH)	HEATING COIL ROWS	AIR EDB/LDB (DEG. F)	WATER EWT/LWT (DEG. F)	WATER FLOW RATE (GPM)	WATER PRESSURE DROP (FT. WATER)	VOLTS / PHASE	HP	
FCU-101	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-102	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-103	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-104	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-105	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-106	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-107	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-108	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-109	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-110	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-111	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-112	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-113	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-114	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-115	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-116	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-117	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-118	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-119	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-120	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-121	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-122	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-123	TRANE FCCB030	HORIZONTAL EXPOSED	275	0	1" THROWAWAY	9.4 / 6.8	80 / 67	42 / 54	1.5	1.6	7.9	1	65 / 91	140 / 120	0.5	1.3	115 / 1	1/8	2-WAY CONTROL VALVES
FCU-124	TRANE FCCB030	HORIZONTAL CONCEALED	275	0	1" THROWAWAY	9.4 / 6.8	80 / 67	42 / 54	1.5	1.6	7.9	1	65 / 91	140 / 120	0.5	1.3	115 / 1	1/8	2-WAY CONTROL VALVES
FCU-125	TRANE FCEB040	HORIZONTAL RECESSED	325	0.1	1" THROWAWAY	11.5 / 8.7	80 / 67	42 / 54	2	5.4	8.2	1	65 / 90	140 / 120	0.5	1.1	115 / 1	1/8	2-WAY CONTROL VALVES
FCU-201	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-202	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-203	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-204	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-205	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-206	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-207	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-208	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-209	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-210	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-211	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-212	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-213	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-214	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-215	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-216	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-217	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-218	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-219	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-220	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-221	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-222	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-223	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-224	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-225	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES
FCU-226	TRANE FCCB030	HORIZONTAL EXPOSED	275	0	1" THROWAWAY	9.4 / 6.8	80 / 67	42 / 54	1.5	1.6	7.9	1	65 / 91	140 / 120	0.5	1.3	115 / 1	1/8	2-WAY CONTROL VALVES
FCU-227	TRANE FCCB030	HORIZONTAL CONCEALED	275	0	1" THROWAWAY	9.4 / 6.8	80 / 67	42 / 54	1.5	1.6	7.9	1	65 / 91	140 / 120	0.5	1.3	115 / 1	1/8	2-WAY CONTROL VALVES
FCU-228	TRANE FCEB040	HORIZONTAL RECESSED	400	0.1	1" THROWAWAY	11.5 / 8.7	80 / 67	42 / 54	2	5.4	8.2	1	65 / 90	140 / 120	0.5	1.1	115 / 1	1/8	2-WAY CONTROL VALVES
FCU-229	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	2-WAY CONTROL VALVES

NOTES:
1. ACCEPTABLE MANUFACTURERS: TRANE.
2. HEATING COIL SHALL BE IN THE REHEAT POSITION.
3. ALL FAN COIL UNITS SHALL BE SELECTED WITH 30% GYLCOL FOR THE CHILLED WATER SYSTEMS.

ENERGY RECOVERY AIR HANDLING UNITS

DESIGNATION		ERAHU-1
MANUFACTURER / MODEL		TRANE OABD036
MAXIMUM UNIT LENGTH (INCHES)		161
MAXIMUM UNIT WIDTH (INCHES)		52
MAXIMUM UNIT HEIGHT (INCHES)		55
UNIT ARRANGEMENT	OUTSIDE AIR DUCT INTAKE	END
	OUTSIDE AIR INTAKE DAMPER	YES
	OUTSIDE AIR DUCT DISCHARGE	SIDES (2)
	EXHAUST AIR DUCT INTAKE	YES
	EXHAUST AIR INTAKE DAMPER	NO
	EXHAUST AIR DUCT DISCHARGE	SIDE
	NUMBER OF SHIPPING SECTIONS	SEE DRAWINGS
	OUTDOOR AIR FILTER	2" PLEATED
	EXHAUST AIR FILTER	2" PLEATED
	CASING CONSTRUCTION	GALVANIZED STEEL, BAKED ENAMEL
	CASING INSULATION	2" FOAM
SUPPLY FAN	SUPPLY AIR FLOW (CFM)	2,500
	EXTERNAL STATIC PRESSURE (INCHES W.C.)	0.75
	FAN RPM	2,815
	FAN BHP	2.1
	MOTOR HP	3
EXHAUST FAN	EXHAUST AIR FLOW (CFM)	2,500
	EXTERNAL STATIC PRESSURE (INCHES W.C.)	0.75
	FAN RPM	2,370
	FAN BHP	1.23
	MOTOR HP	2
ENTHALPY WHEEL (SUMMER)	OSA EDB / EWB (DEG F.)	98 / 78
	VENTILATION AIR LDB / LWB (DEG F.)	83.8 / 74.2
	EXHAUST AIR EDB / EWB (DEG.F)	75 / 63
	SENSIBLE / LATENT EFFECTIVENESS (%) (1)	61.7 / 25.3
ENTHALPY WHEEL (WINTER)	OSA EDB / EWB (DEG F.)	17 / 15
	VENTILATION AIR LDB / LWB (DEG F.)	44.6 / 35.1
	EXHAUST AIR EDB / EWB (DEG.F)	70 / 58
	SENSIBLE / LATENT EFFECTIVENESS (%) (1)	52.1 / 46.7
CHILLED WATER COIL	AIR FLOW (CFM)	2,500
	COIL FACE VELOCITY (FPM)	486
	ROWS	6
	FIN SPACING (FINS PER FOOT)	12
	ENTERING AIR TEMPERATURE (DB/WB DEG.F.)	83.4 / 70.9
	LEAVING AIR TEMPERATURE (DB/WB DEG.F.)	56.7 / 56.1
	COIL AIR PRESSURE DROP (INCHES W.G.)	0.5
	ENTERING WATER TEMPERATURE (DEG.F.)	43
	LEAVING WATER TEMPERATURE (DEG.F.)	55
	CHILLED WATER FLOW (GPM)	11
	COIL WATER PRESSURE DROP (FEET W.G.)	1.8
	TOTAL HEAT TRANSFER (MBH)	67.5
	SENSIBLE HEAT TRANSFER (MBH)	52.9
	ACCESS DOORS	SEE DRAWINGS
	SECTION ACCESSORIES	S.S. DRAIN PAN
RE-HEAT WATER COIL	AIR FLOW (CFM)	2,500
	COIL FACE VELOCITY (FPM)	486
	ROWS	2
	FIN SPACING (FINS PER FOOT)	8
	ENTERING AIR TEMPERATURE (DEG.F.)	49.3
	LEAVING AIR TEMPERATURE (DEG.F.)	75.8
	COIL AIR PRESSURE DROP (INCHES W.G.)	0.51
	ENTERING WATER TEMPERATURE (DEG.F.)	160
	LEAVING WATER TEMPERATURE (DEG.F.)	140
	HEATING WATER FLOW (GPM)	7.2
	COIL WATER PRESSURE DROP (FEET W.G.)	3.2
	TOTAL HEAT TRANSFER (MBH)	71.6
ELECTRICAL	VOLTS / PHASE	208 / 3
	MINIMUM CIRCUIT AMPS	16.8
	MOCP	20

NOTES:
1. ACTUAL EFFECTIVENESS IS BASED ON VENTILATION AIR AND DOES ACCOUNT FOR ANY OFFSET IN AIRFLOW.
2. THREE WAY CONTROL VALVE TO BE USED FOR CHILLED WATER, 2-WAY FOR HEATING WATER.
3. COOLING SELECTION BASED ON 30% PROPYLENE.

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

CLEMENTS & ASSOCIATES
ARCHITECTURE, INC.
507 MAIN STREET
NORTH LITTLE ROCK, ARKANSAS 72114
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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 13207
NOAH D. KINDER
2-29-24

CERTIFICATE OF AUTHORIZATION
ENERGY ENGINEERING CONSULTANTS, INC.
No. 1586
ARKANSAS ENGINEER

EECI
ENERGY ENGINEERING CONSULTANTS, INC.
10 CORPORATE HILL DR., STE. 100 PH: (501) 244-0511
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No.	Revision/Issue	Date	By	App'd
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT NO. REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE MECHANICAL SCHEDULES

DESIGNED BY	CHECKED BY
HS, BD	GC
DRAWN BY	PROJECT NUMBER
HS	NKAK 21-1034
CHECKED BY	SHEET
GC	M4.02
DATE	
29 FEB. 2024	
SCALE	OF
AS NOTED	84 OF 100

FAN COIL / BLOWER COIL UNITS - FOUR PIPE (2OF 2)

DESIGNATION	REFERENCE PRODUCT	TYPE	AIRFLOW DATA			COOLING DATA					HEATING DATA						ELECTRICAL DATA		REMARKS
			TOTAL AIRFLOW (CFM)	EXTERNAL PRESSURE (IN. WATER)	FILTER TYPE	COOLING TOT/SENS (MBH)	AIR EDB/EWB (DEG. F)	WATER EWT/LWT (DEG. F)	WATER FLOW RATE (GPM)	WATER PRESSURE DROP (FT. WATER)	TOTAL CAPACITY (MBH)	HEATING COIL ROWS	AIR EDB/LDB (DEG. F)	WATER EWT/LWT (DEG. F)	WATER FLOW RATE (GPM)	WATER PRESSURE DROP (FT. WATER)	VOLTS / PHASE	HP	
FCU-301	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-302	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-303	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-304	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-305	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-306	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-307	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-308	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-309	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-310	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-311	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-312	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-313	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-314	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-315	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-316	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-317	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-318	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-319	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-320	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-321	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-322	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-323	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-324	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-325	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES
FCU-326	TRANE FCCB030	HORIZONTAL EXPOSED	275	0	1" THROWAWAY	9.4 / 6.8	80 / 67	42 / 54	1.5	1.6	7.9	1	65 / 91	140 / 120	0.5	1.3	115 / 1	1/8	3-WAY CONTROL VALVES
FCU-327	TRANE FCCB030	HORIZONTAL CONCEALED	275	0	1" THROWAWAY	9.4 / 6.8	80 / 67	42 / 54	1.5	1.6	7.9	1	65 / 91	140 / 120	0.5	1.3	115 / 1	1/8	3-WAY CONTROL VALVES
FCU-328	TRANE FCEB040	HORIZONTAL RECESSED	400	0.1	1" THROWAWAY	11.5 / 8.7	80 / 67	42 / 54	2	5.4	8.2	1	65 / 90	140 / 120	0.5	1.1	115 / 1	1/8	3-WAY CONTROL VALVES
FCU-329	TRANE FCCB040	HORIZONTAL CONCEALED	300	0.5	1" THROWAWAY	12.8 / 8.6	80 / 67	42 / 54	2.1	9.1	9.2	1	65 / 92	140 / 120	1	1.2	208 / 1	1/8	3-WAY CONTROL VALVES

NOTES:
1. ACCEPTABLE MANUFACTURERS: TRANE
2. HEATING COIL SHALL BE IN THE REHEAT POSITION.
3. ALL FAN COIL UNITS SHALL BE SELECTED WITH 30% GYLCOL FOR THE CHILLED WATER SYSTEMS.

AIR DEVICES

MARK	REFERENCE PRODUCT	USE	MAXIMUM AIRFLOW (CFM)	TYPE	STYLE	NECK SIZE (INCHES)	FACE SIZE (INCHES)	MAXIMUM APD (INCHES W.C.)	MAXIMUM N.C. RATING	MATERIAL	FINISH	PROVIDE OBD	REMARKS
A	PRICE 520	SUPPLY	300	SIDEWALL	BLADE	12 / 6	14 x 8	0.13	25	STEEL	WHITE	YES	45° DOUBLE DEFLECTION
B	PRICE SCD	SUPPLY	100	CEILING	LOUVERED	6" Ø	12 x 12	0.03	25	STEEL	WHITE	YES	
C	PRICE 520	SUPPLY	400	SIDEWALL	BLADE	SEE REMARKS	SEE REMARKS	0.10					SIZE OF GRILLE TO EQUAL FAN COIL DUCT SIZE.
1	PRICE 91	RETURN / EXHAUST	300	SIDEWALL	BAR	12 / 6	14 x 8	-0.06	25	STEEL	WHITE	NO	3/8" SPACING WITH 45° DEFLECTION
2	PRICE 80	RETURN / EXHAUST	40	WALL	EGGCRATE	6 x 5	8 x 6	-0.04	20	ALUMINUM	WHITE	NO	
3	PRICE 91	RETURN / EXHAUST	325	SIDEWALL	BAR	16 / 6	18 x 8	-0.06	25	STEEL	WHITE	NO	3/8" SPACING WITH 45° DEFLECTION

NOTES:
1. ACCEPTABLE MANUFACTURERS: KRUEGER, METALAIRE, PRICE, TITUS, AND TUTTLE & BAILEY.
2. ALL CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE INDICATED ON PLANS.
3. COORDINATE WITH ARCHITECTURAL ROOM FINISH SCHEDULES FOR DEVICE FRAMING REQUIREMENTS.
4. PROVIDE OPPOSED BLADE DAMPERS AT ALL BRANCH TAKE-OFFS EVEN IF OBD'S ARE INDICATED FOR AIR DEVICES.
5. PROVIDE SQUARE TO ROUND TRANSITIONS AS REQUIRED FOR CONNECTION TO GRILLES.

CERTIFICATE OF AUTHORIZATION
ENERGY ENGINEERING CONSULTANTS, INC.
No. 1586
ARKANSAS ENGINEER

EECI
ENERGY ENGINEERING CONSULTANTS, INC.
10 CORPORATE HILL DR., STE. 100 PH: (501) 244-0511
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AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

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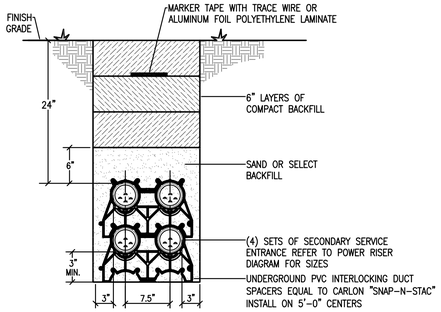
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 13207
NOAH D. KINDER
2-29-24

No.	Revision/Issue	Date	By	Appd
	100 REVISED SUBMITTAL	4/26/24		

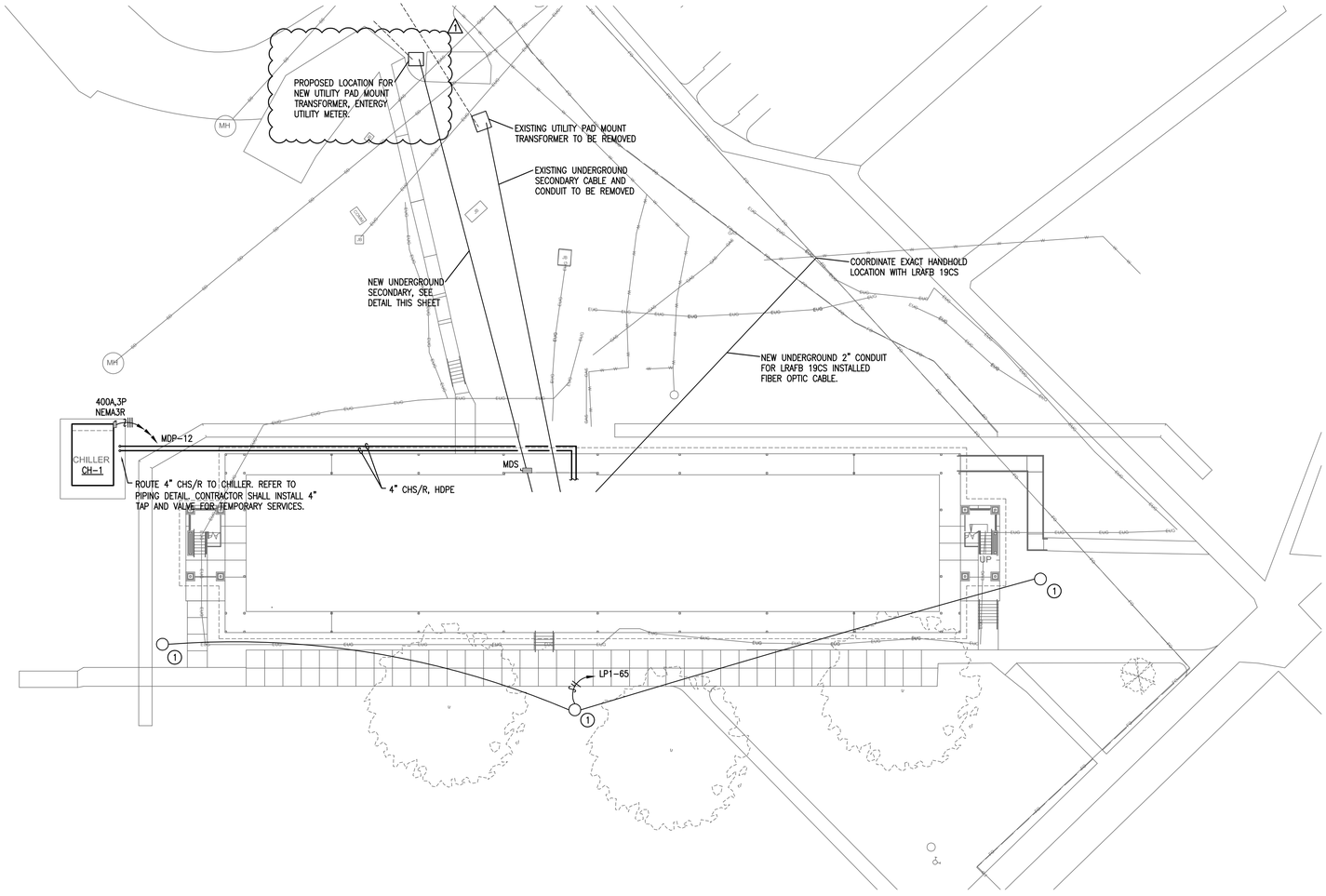
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: MECHANICAL SCHEDULES

DRAWN BY	LEAD DESIGNER
HS, BD	GC
CHK'D BY	PROJECT NUMBER
HS	NKAK 21-1034
ENGINEER	SHEET
GC	M4.03
DATE	
29 FEB. 2024	85 OF 100
SCALE	
AS NOTED	



2 TYPICAL TRENCH DETAIL - SECONDARY ELECTRIC
SCALE: NONE



1 ELECTRICAL / MECHANICAL SITE PLAN
SCALE: 1" = 20'-0"

KEYED NOTES:

1. SITE POLE LIGHT. LIGHT FIXTURE AND POLE SUPPLIED BY GOVERNMENT. LIGHT POLE BASE, CONDUIT AND WIRE BY CONTRACTOR.

Know what's **below.** **Call** before you dig.

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18933
ERIC C. TARVER
2/26/24

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No.	Revision/Issue	Date	By	Appd
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ELECTRICAL / MECHANICAL SITE PLAN

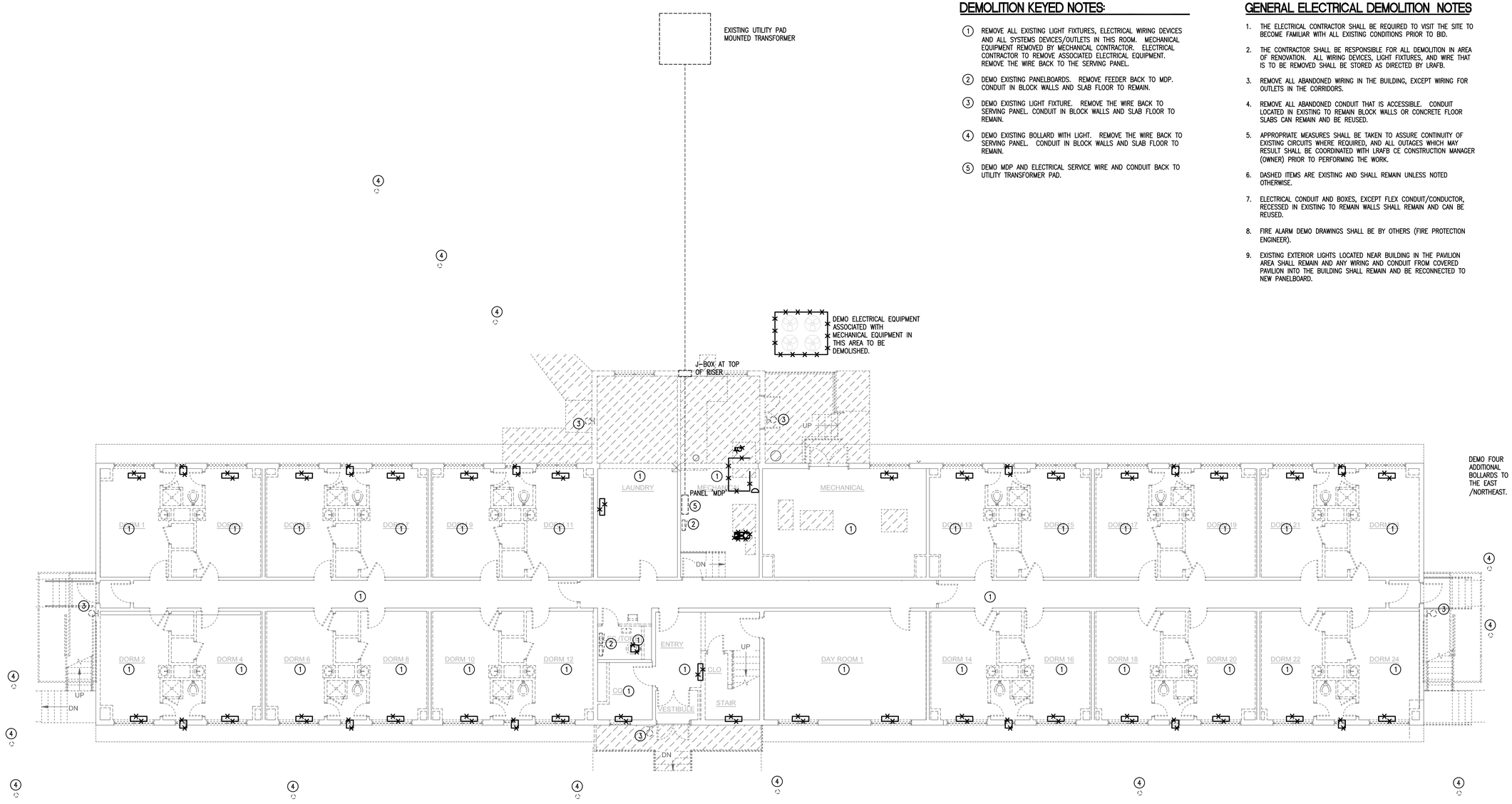
DESIGNED BY	LEAD DISCIPLINE
HS, BD	GC
DRAWN BY	PROJECT NUMBER
HS	NKAK 21-1034
CHECKED BY	SHEET
GC	EM0.01
DATE	
29 FEB. 2024	86 OF 100
SCALE	
AS NOTED	

DEMOLITION KEYED NOTES:

1. REMOVE ALL EXISTING LIGHT FIXTURES, ELECTRICAL WIRING DEVICES AND ALL SYSTEMS DEVICES/OUTLETS IN THIS ROOM. MECHANICAL EQUIPMENT REMOVED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REMOVE ASSOCIATED ELECTRICAL EQUIPMENT. REMOVE THE WIRE BACK TO THE SERVING PANEL.
2. DEMO EXISTING PANELBOARDS. REMOVE FEEDER BACK TO MDP. CONDUIT IN BLOCK WALLS AND SLAB FLOOR TO REMAIN.
3. DEMO EXISTING LIGHT FIXTURE. REMOVE THE WIRE BACK TO SERVING PANEL. CONDUIT IN BLOCK WALLS AND SLAB FLOOR TO REMAIN.
4. DEMO EXISTING BOLLARD WITH LIGHT. REMOVE THE WIRE BACK TO SERVING PANEL. CONDUIT IN BLOCK WALLS AND SLAB FLOOR TO REMAIN.
5. DEMO MDP AND ELECTRICAL SERVICE WIRE AND CONDUIT BACK TO UTILITY TRANSFORMER PAD.

GENERAL ELECTRICAL DEMOLITION NOTES

1. THE ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO VISIT THE SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION IN AREA OF RENOVATION. ALL WIRING DEVICES, LIGHT FIXTURES, AND WIRE THAT IS TO BE REMOVED SHALL BE STORED AS DIRECTED BY LRAFB.
3. REMOVE ALL ABANDONED WIRING IN THE BUILDING, EXCEPT WIRING FOR OUTLETS IN THE CORRIDORS.
4. REMOVE ALL ABANDONED CONDUIT THAT IS ACCESSIBLE. CONDUIT LOCATED IN EXISTING TO REMAIN BLOCK WALLS OR CONCRETE FLOOR SLABS CAN REMAIN AND BE REUSED.
5. APPROPRIATE MEASURES SHALL BE TAKEN TO ASSURE CONTINUITY OF EXISTING CIRCUITS WHERE REQUIRED, AND ALL OUTAGES WHICH MAY RESULT SHALL BE COORDINATED WITH LRAFB CE CONSTRUCTION MANAGER (OWNER) PRIOR TO PERFORMING THE WORK.
6. DASHED ITEMS ARE EXISTING AND SHALL REMAIN UNLESS NOTED OTHERWISE.
7. ELECTRICAL CONDUIT AND BOXES, EXCEPT FLEX CONDUIT/CONDUCTOR, RECESSED IN EXISTING TO REMAIN WALLS SHALL REMAIN AND CAN BE REUSED.
8. FIRE ALARM DEMO DRAWINGS SHALL BE BY OTHERS (FIRE PROTECTION ENGINEER).
9. EXISTING EXTERIOR LIGHTS LOCATED NEAR BUILDING IN THE PAVILION AREA SHALL REMAIN AND ANY WIRING AND CONDUIT FROM COVERED PAVILION INTO THE BUILDING SHALL REMAIN AND BE RECONNECTED TO NEW PANELBOARD.



1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 18933
ERIC C. TAYLOR
2-29-24

ENERGY ENGINEERING CONSULTANTS, INC.
CERTIFICATE OF AUTHORIZATION
ARKANSAS ENGINEER
No. 1586

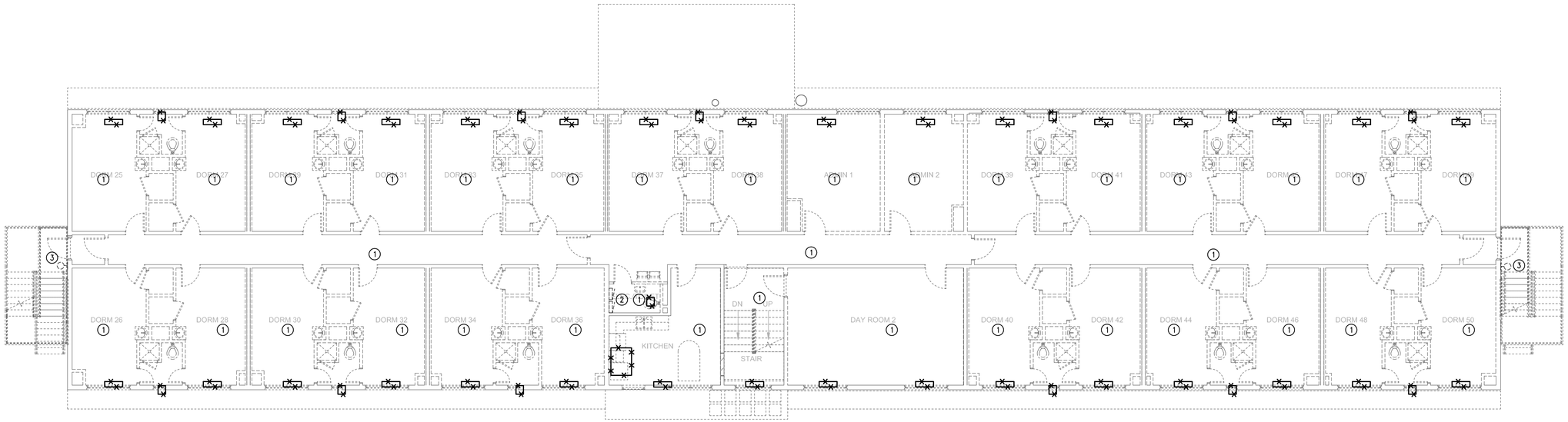
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LITTLE ROCK, AR 72205 FX: (501) 244-0241

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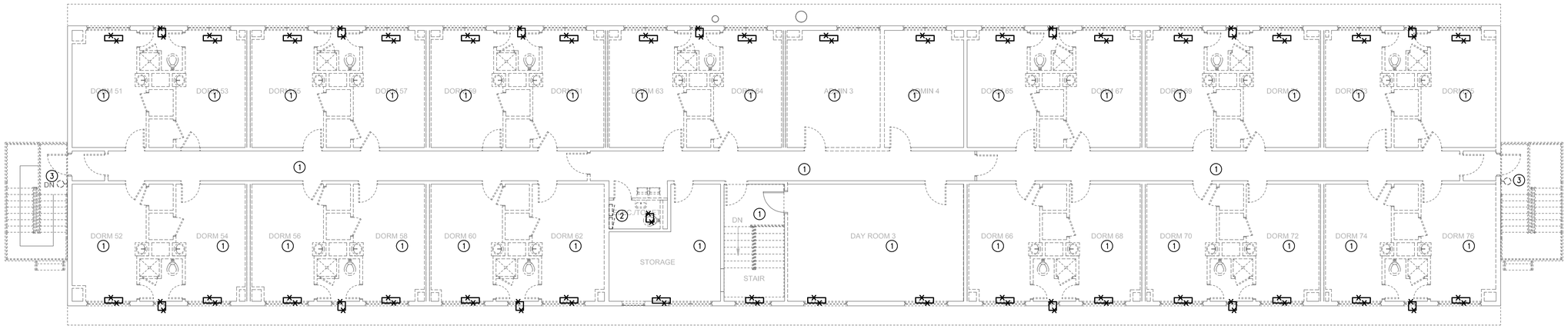
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ELECTRICAL DEMOLITION PLAN

DRAWN BY: HS, BD	LEAD DESIGNER: GC
CHECK REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
ENGINEER: GC	SHEET: E1.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	87 OF 100



1 SECOND FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 THIRD FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION KEYED NOTES:

1. REMOVE ALL EXISTING LIGHT FIXTURES, ELECTRICAL WIRING DEVICES AND ALL SYSTEMS DEVICES/OUTLETS IN THIS ROOM. MECHANICAL EQUIPMENT REMOVED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REMOVE ASSOCIATED ELECTRICAL EQUIPMENT. REMOVE THE WIRE BACK THE SERVING PANEL.
2. DEMO EXISTING PANELBOARDS. REMOVE FEEDER BACK TO MDP. CONDUIT IN BLOCK WALLS AND SLAB FLOOR TO REMAIN.
3. DEMO EXISTING LIGHT FIXTURE. REMOVE THE WIRE BACK TO SERVING PANEL. CONDUIT IN BLOCK WALLS AND SLAB FLOOR TO REMAIN.

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

ENERGY ENGINEERING CONSULTANTS, INC. No. 1586 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

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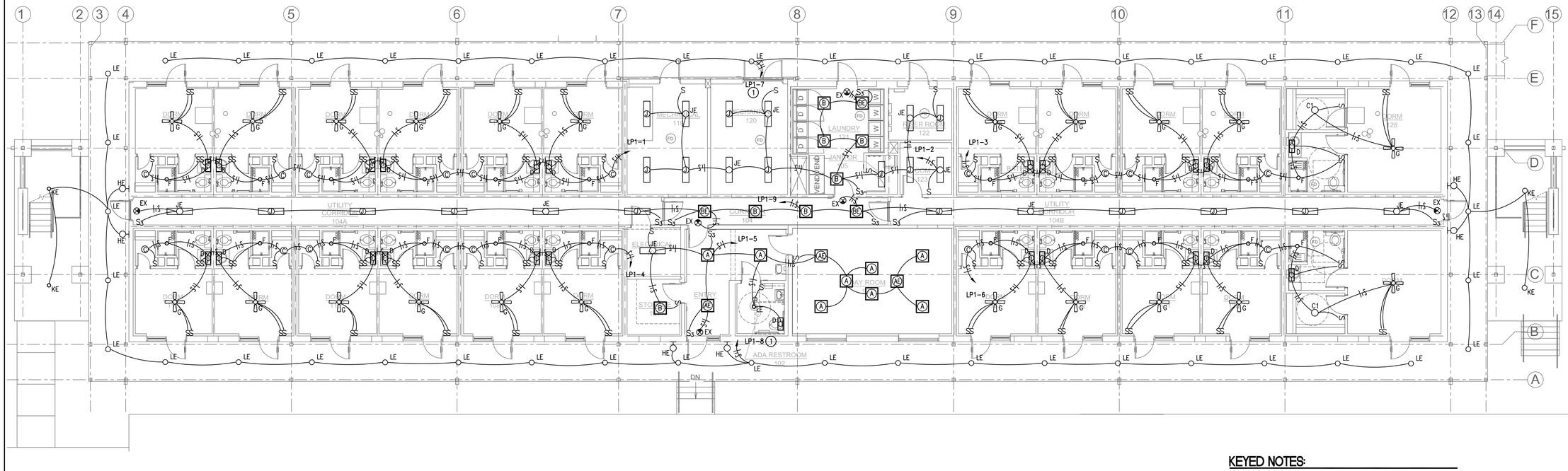
STATE OF ARKANSAS
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No. 18533
ERIC C. TARVER
2024

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ELECTRICAL DEMOLITION PLAN

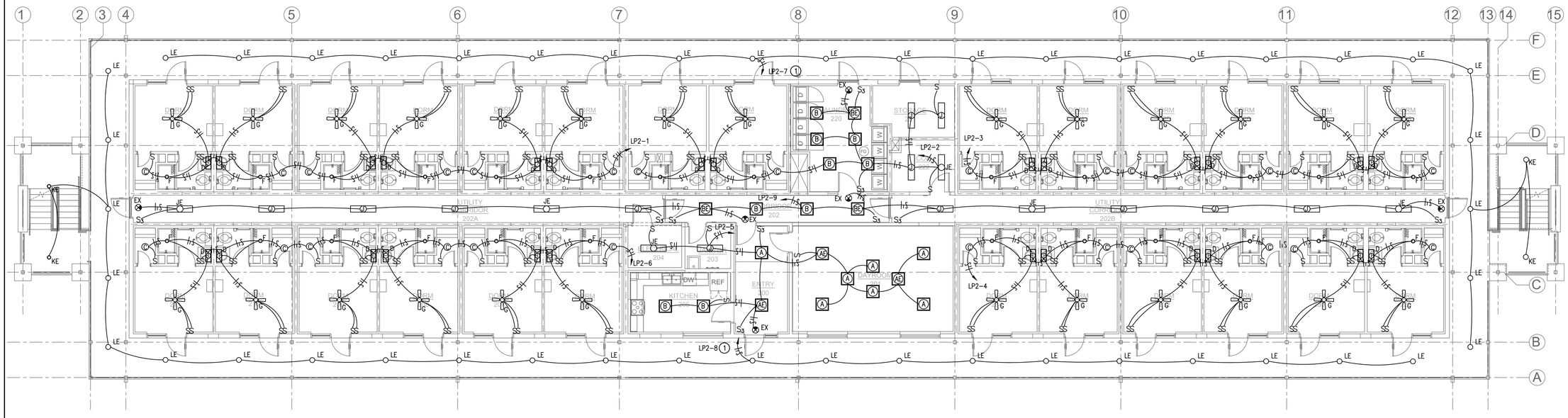
DRAWN BY: HS, BD	CAD DESIGNER: GC
TECH. REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: E1.02
DATE: 29 FEB. 2024	88 OF 100
SCALE: AS NOTED	



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

KEYED NOTES:

1. CIRCUIT SHALL BE CONNECTED TO AN EMERGENCY BATTERY INVERTER TO PROVIDE EGRESS LIGHTING. LIGHTING SHALL ALSO BE TIME CLOCK AND PHOTO CELL CONTROLLED.



2 LIGHTING PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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No. 18933
ERIC C. TARVER
2/29/24

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ARKANSAS ENGINEER

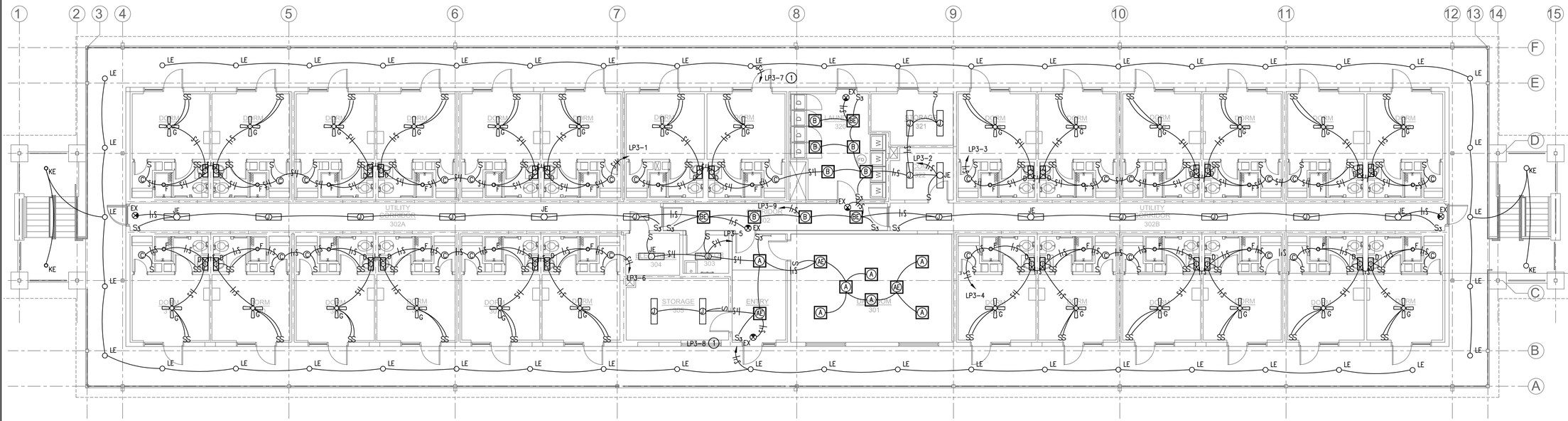
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LITTLE ROCK, AR 72205 FX: (501) 244-0241

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: LIGHTING PLAN

DRAWN BY: HS, BD	CHK'D DESIGNER: GC
DES'D. REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: E2.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	89 OF 100



1 LIGHTING PLAN - THIRD FLOOR

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

KEYED NOTES:

1. CIRCUIT SHALL BE CONNECTED TO AN EMERGENCY BATTERY INVERTER TO PROVIDE EGRESS LIGHTING. LIGHTING SHALL ALSO BE TIME CLOCK AND PHOTO CELL CONTROLLED.

B-854 LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	PART NUMBER	VOLTAGE	SOURCE	INPUT POWER (W)	CRI	CCT	MOUNTING	REMARKS	NOTES
A	LITHONIA	2BLT2 33L ADSM EZ1 LP935	UNV	LED	26.67	80	3500K	RECESSED	2X2 DECORATIVE, LENS	1
AE	LITHONIA	2BLT2 33L ADSM EZ1 LP935 EL7L	UNV	LED	26.67	80	3500K	RECESSED	2X2 DECORATIVE, LENS, BATTERY	1
B	LITHONIA	2BLT2 33L ADSM EZ1 LP935	UNV	LED	26.67	80	3500K	RECESSED	2X2 DECORATIVE, LENS	1
BE	LITHONIA	2BLT2 33L ADSM EZ1 LP935 EL7L	UNV	LED	26.67	80	3500K	RECESSED	2X2 DECORATIVE, LENS, BATTERY	1
C	JUNO	JSF 11IN SWW5 90CRI MVOLT WH	UNV	LED	14.3	80	3500K	SURFACE	11" DECORATIVE ROUND, LENS	1
C1	JUNO	JSF 13IN SWW5 90CRI MVOLT WH	UNV	LED	19.5	80	3500K	SURFACE	13" DECORATIVE ROUND, LENS	1
D	VISA LIGHTING	CB5500 L30K(H)-MVOLT SNA SNA KA DCC	UNV	LED	15	80	3000K	WALL	2 FOOT LINEAR VANITY, LENS, DAMP LOCATION	1,2
F	JUNO	JPDZ6 SQDC ALO10 SWW5D 90CRI JPDZRMJBX 120FRPC WWH	UNV	LED	15.2	80	3500K	RECESSED	6" DOWNLIGHT, LENS, SHOWER, DAMP LOCATION	1,2
G	WIND RIVER	WR2028N	120V	LED	17	80	3500K	SURFACE	42" CEILING FAN, LOW PROFILE, INTEGRAL LED LIGHT KIT	1
HE	EUREKA	3418 LED.HO 35 120V DP EMB BLKE FRO 3981EA	UNV	LED	23.9	80	3500K	WALL	SCONCE, LENS, EXTERIOR, BATTERY	1,3
J	LITHONIA	BLWP4 30L ADSM GZ10 LP840 NES7ADSX DIM10	UNV	LED	25	80	3500K	SURFACE	4 FOOT STRIP, LENS	1
JE	LITHONIA	BLWP4 30L ADSM GZ10 LP840 NES7ADSX DIM10 E10WLCP	UNV	LED	25	80	3500K	SURFACE	4 FOOT STRIP, LENS, BATTERY	1
KE	LUMINAIRE LED	VPF4 4FT PRD 40W 35K MVOLT OP BRZ WL EL	UNV	LED	40	80	4000K	RECESSED	DOWNKLIGHT, LENS, EXTERIOR, BATTERY	1,3
LE	LITHONIA	LDN6SQ 20LM 35K LS6 AR LSS MVOLT UGZ EL	UNV	LED	25	80	4000K	RECESSED	DOWNKLIGHT, LENS, EXTERIOR	1,3
EX	LITHONIA	EDG 1 R EL	UNV	LED	2.5	---	---	UNIVERSAL	EXIT, EDGE-LIT, RED LED, BATTERY	1

NOTES:
1. FIXTURE COLOR TO BE SELECTED FROM MANUFACTURERS STANDARD COLOR SELECTION DURING SUBMITTAL REVIEW.
2. FIXTURE SHALL BE MANUFACTIRED WITH NON-RUSTING HOUSING MATERIALS
3. FIXTURE SHALL BE CONNECTED TO CENTRAL BATTERY INVERTER ON EACH FLOOR IN LIEU OF INTERNAL BATTERY.

0' 4' 8' 16'

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

CERTIFICATE OF AUTHORIZATION
ENERGY ENGINEERING CONSULTANTS, INC. No. 1586 ARKANSAS ENGINEER

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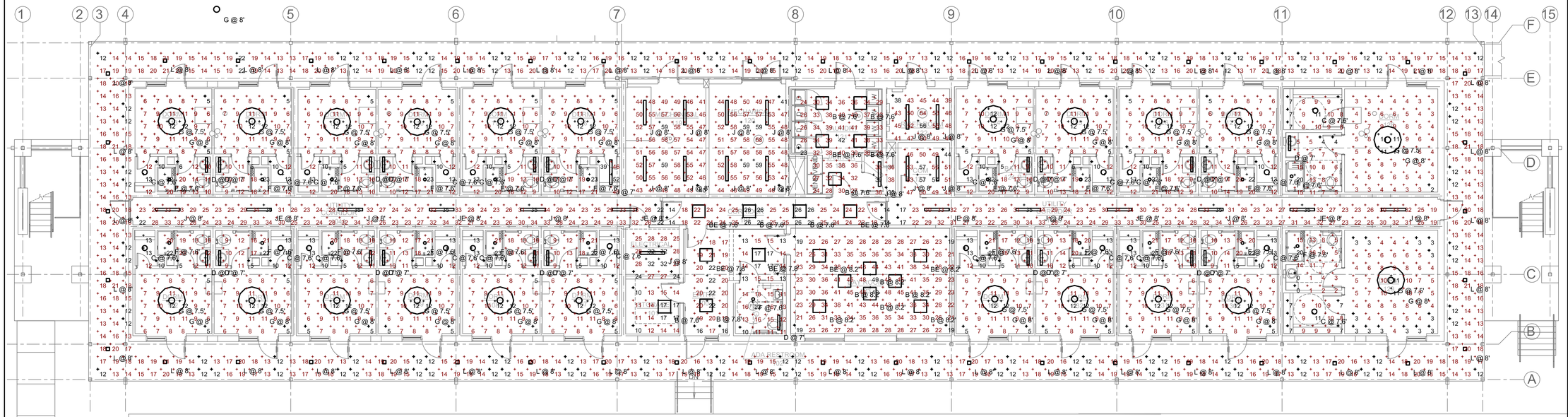
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18533
ERIC C. TARVER
2/29/24

No.	Revision/Issue	Date	BY	APP'D

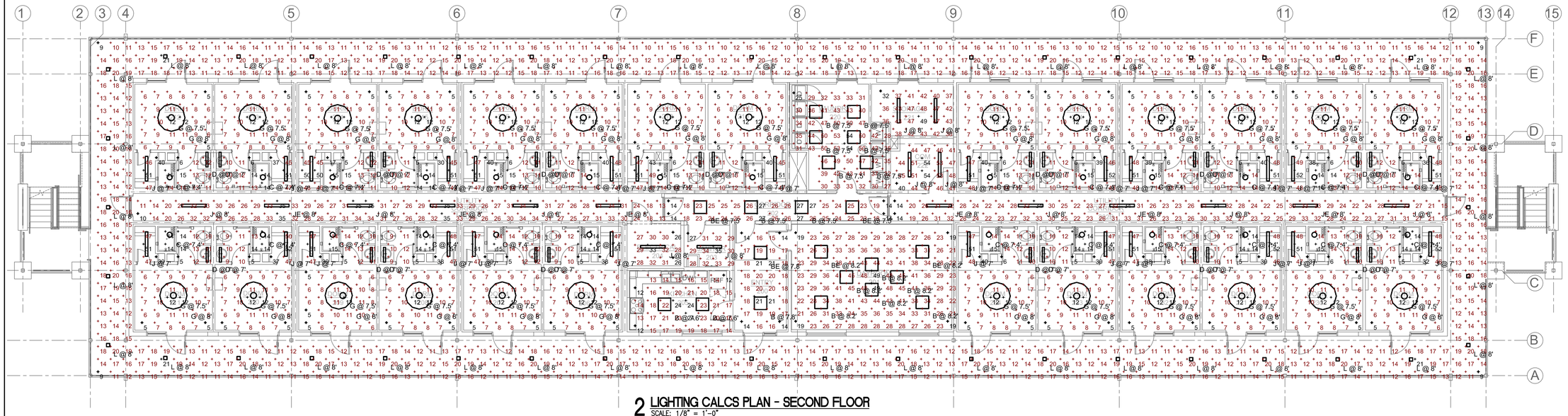
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
LIGHTING PLAN

DRAWN BY	CAD DESIGNER
HS, BD	GC
TECH. REVIEWER	PROJECT NUMBER
HS	NKAK 21-1034
DESIGNED BY	SHEET
GC	E2.02
DATE	
29 FEB. 2024	90 OF 100
SCALE	
AS NOTED	



1 LIGHTING CALCS PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"



2 LIGHTING CALCS PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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2024

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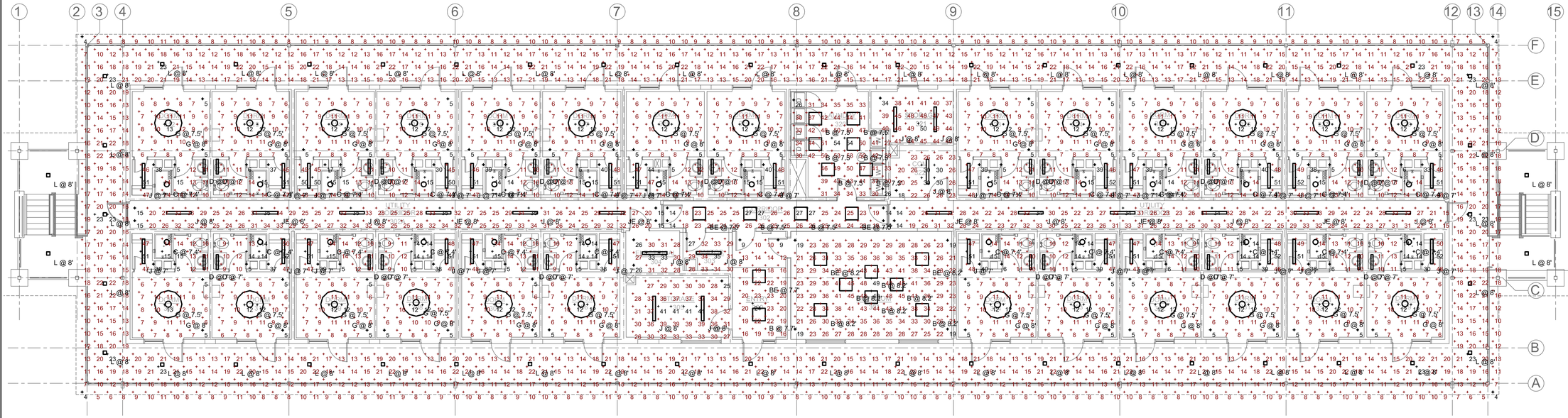
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
LIGHTING CALCS PLAN

DRAWN BY: HS, BD	CHK. DESIGNER: GC
CHK. REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET NUMBER: E3.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	SHEET 91 OF 100

CERTIFICATE OF AUTHORIZATION
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1 LIGHTING CALCS PLAN - THIRD FLOOR

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

0' 4' 8' 16'

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

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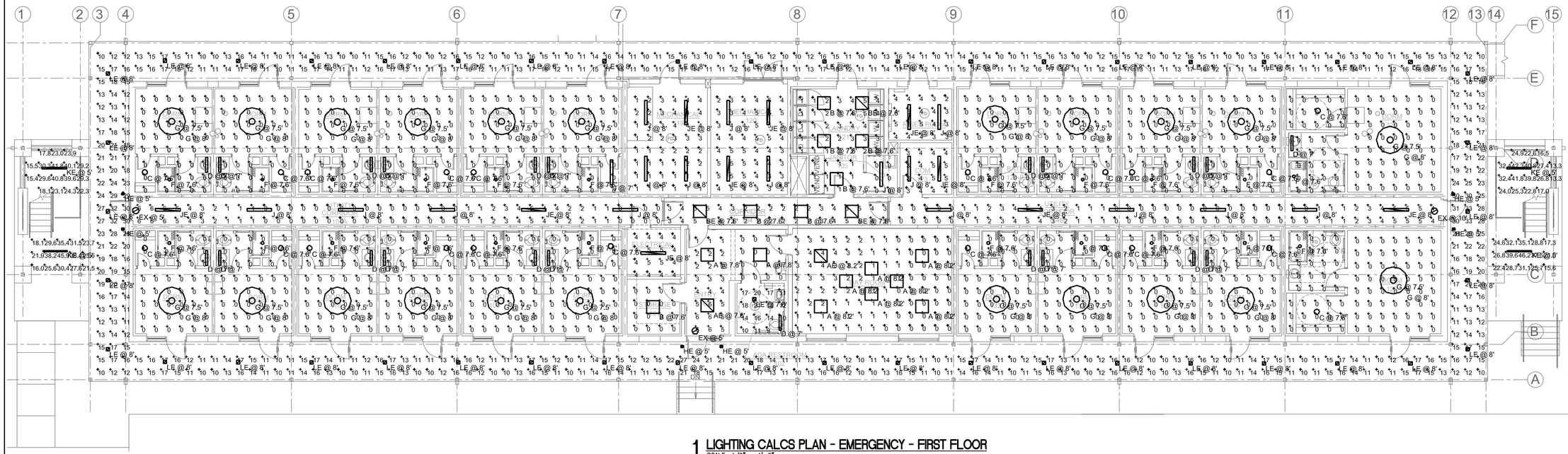
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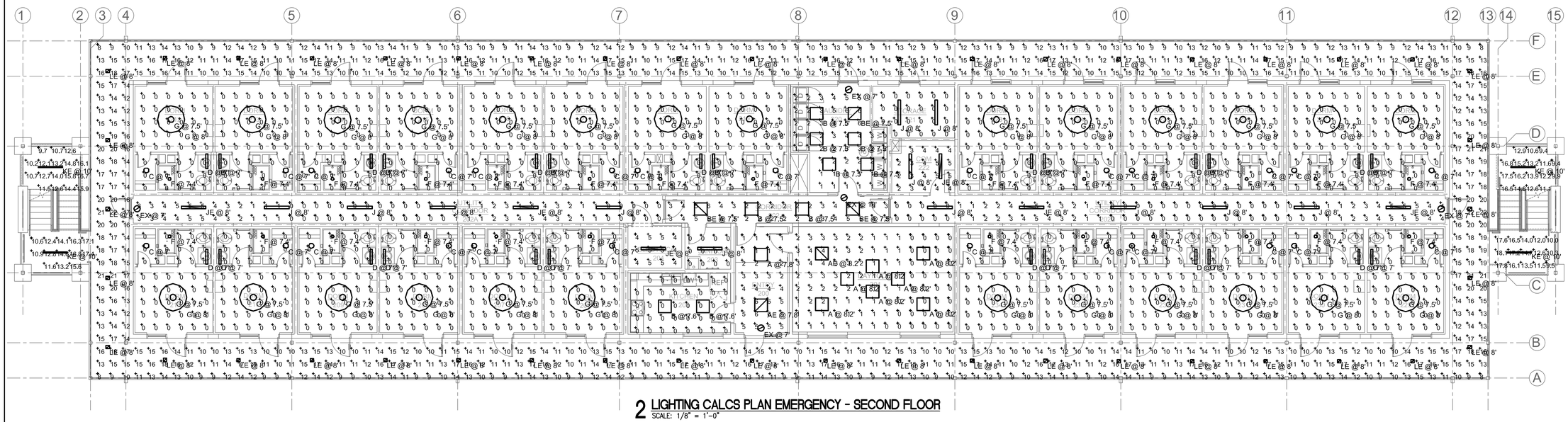
PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
LIGHTING CALCS PLAN

DRAWN BY	CAD DESIGNER
HS, BD	GC
PROJ. REVIEWER	PROJECT NUMBER
HS	NKAK 21-1034
DESIGNED BY	SHEET
GC	E3.02
DATE	
29 FEB. 2024	92 OF 100
SCALE	
AS NOTED	



1 LIGHTING CALCS PLAN - EMERGENCY - FIRST FLOOR
SCALE: 1/8" = 1'-0"



2 LIGHTING CALCS PLAN EMERGENCY - SECOND FLOOR
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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2024

No.	Revision/Issue	Date	BY	APP'D

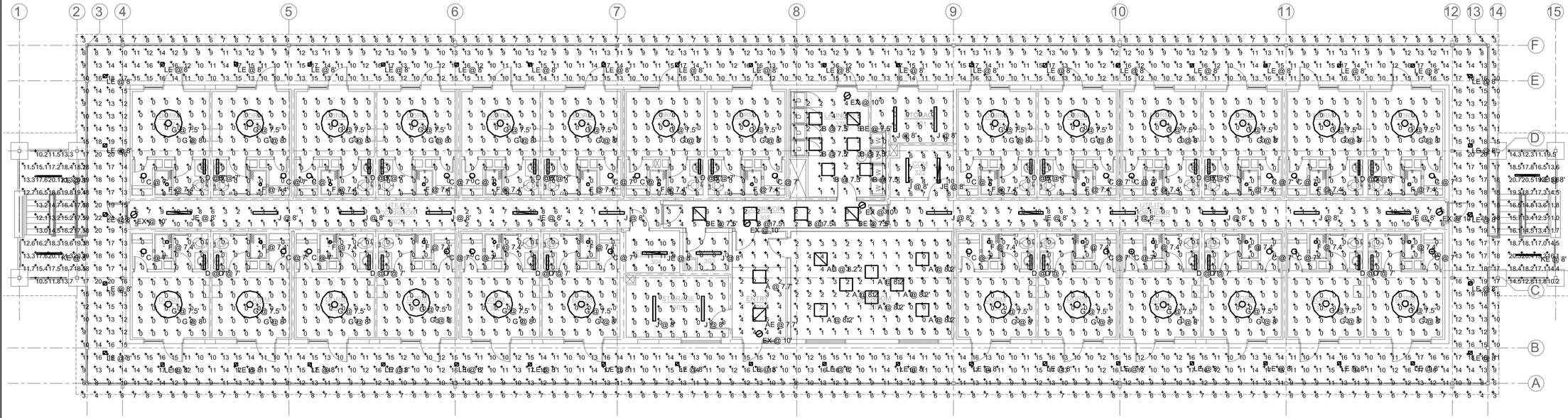
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: LIGHTING CALCS PLAN - EMERGENCY

DRAWN BY: HS, BD	CHK'D DESIGNER: GC
TECH. REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET NUMBER: E3.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	93 OF 100

ENERGY ENGINEERING CONSULTANTS, INC. No. 1586 CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

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ENERGY ENGINEERING CONSULTANTS, INC.
10 CORPORATE HILL DR., STE. 100 PH: (501) 244-0511
LITTLE ROCK, AR 72205 FX: (501) 244-0241



1 LIGHTING CALCS PLAN - EMERGENCY - THIRD FLOOR
SCALE: 1/8" = 1'-0"

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
ARKANSAS

HGL Construction

CLEMENTS & ASSOCIATES
ARCHITECTURE, INC.
507 MAIN STREET
NORTH LITTLE ROCK, ARKANSAS 72114
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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19533
ERIC C. TAYLOR
2024

CERTIFICATE OF AUTHORIZATION
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No. 1586
ARKANSAS ENGINEER

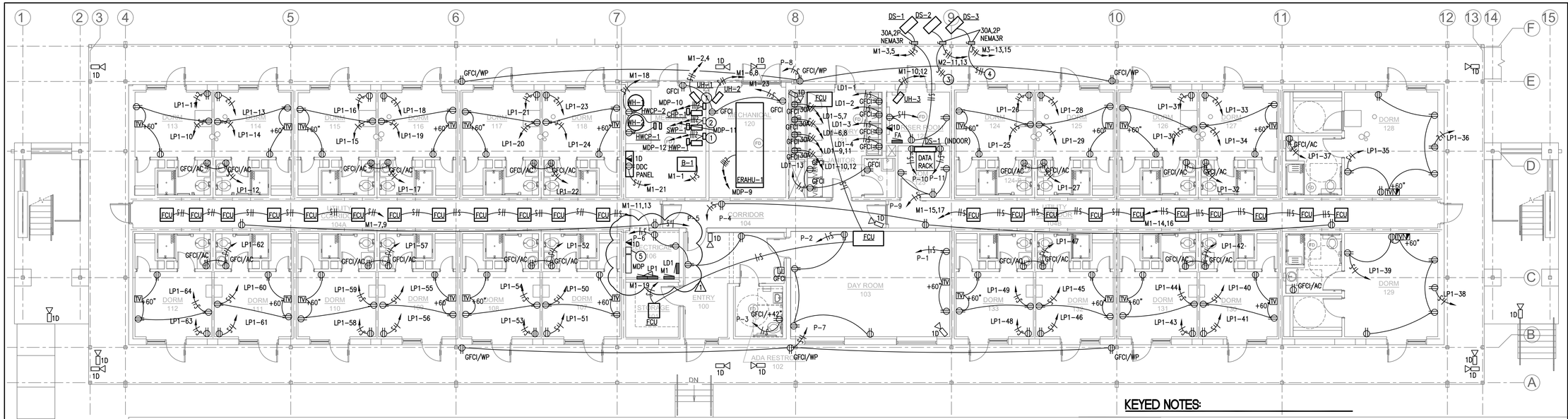
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No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE
REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE
LIGHTING CALCS PLAN - EMERGENCY

DRAWN BY	CAD DESIGNER
HS, BD	GC
PROJ. REVIEWER	PROJECT NUMBER
HS	NKAK 21-1034
DESIGNED BY	SHEET
GC	E3.04
DATE	
29 FEB. 2024	94 OF 100
SCALE	
AS NOTED	

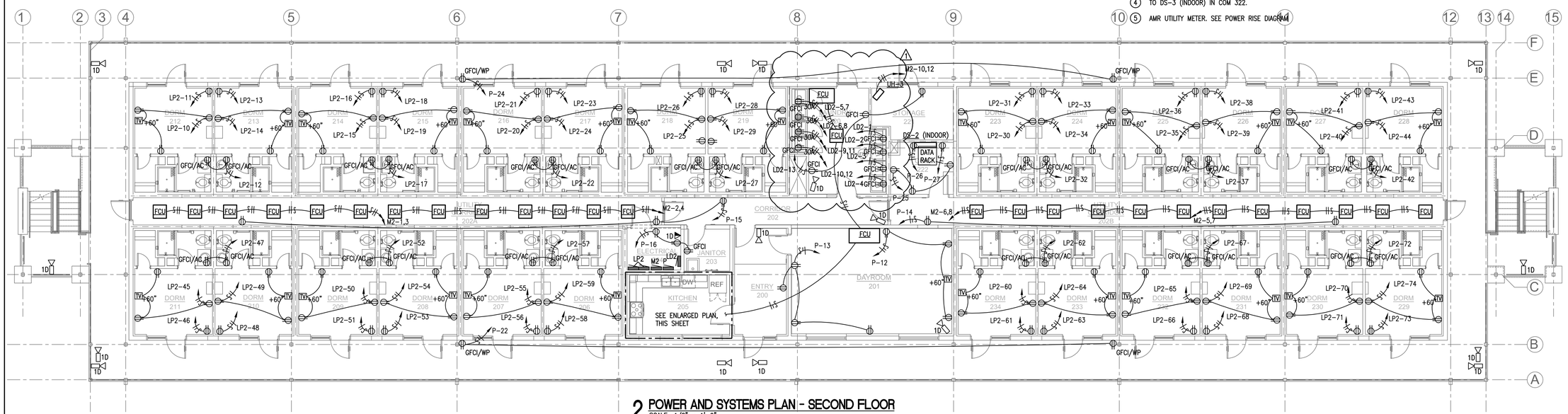


1 POWER AND SYSTEMS PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"

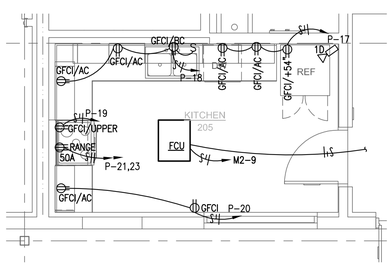
ALL CAMERAS LOCATIONS INDICATED ARE ROUGH IN ONLY. CAMERA CABLING AND SYSTEM BY OTHERS.

KEYED NOTES:

1. VFD. SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR.
2. LINE STARTER. SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. TO DS-2 (INDOOR) IN COM 222.
4. TO DS-3 (INDOOR) IN COM 322.
5. AMR UTILITY METER. SEE POWER RISE DIAGRAM



2 POWER AND SYSTEMS PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"



3 POWER AND SYSTEMS PLAN - SECOND FLOOR ENLARGED
SCALE: 1/4" = 1'-0"

0' 4' 8' 16'

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

AIR MOBILITY COMMAND
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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 18933
ERIC C. TAYLOR
4/26/24

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10 CORPORATE HILL DR., STE. 100 PH: (501) 244-0511
LITTLE ROCK, AR 72205 FX: (501) 244-0241

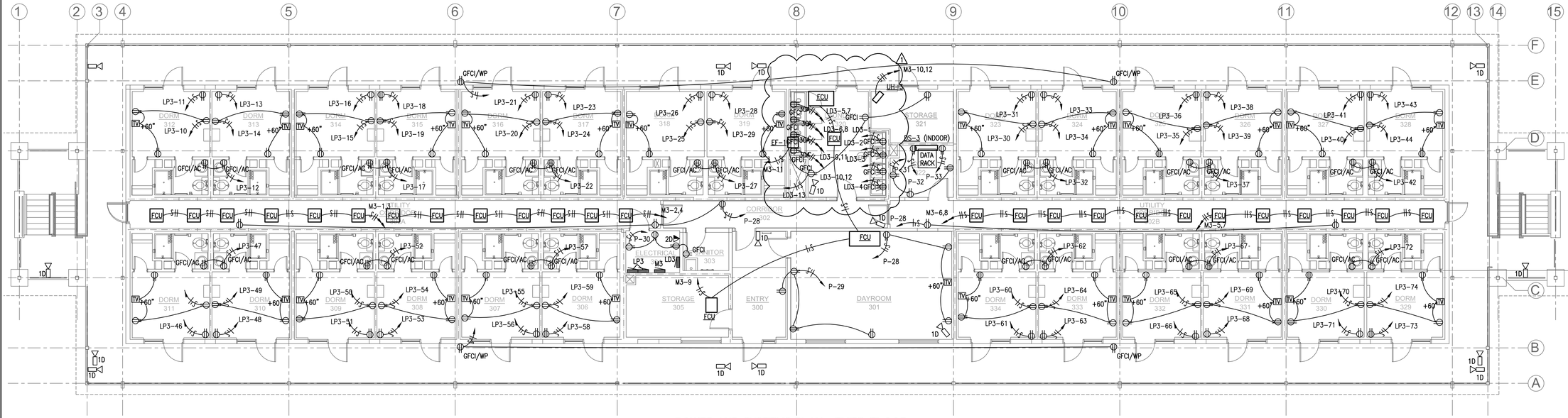
CERTIFICATE OF AUTHORIZATION
ENERGY ENGINEERING CONSULTANTS, INC.
No. 1586
ARKANSAS ENGINEER

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: POWER AND SYSTEMS PLAN

DESIGNED BY	TECH. REVIEWER
HS, BD	GC
DRAWN BY	PROJECT NUMBER
HS	NKAK 21-1034
REVIEWED BY	SHEET
GC	E4.01
DATE	
29 FEB. 2024	95 OF 100
SCALE	
AS NOTED	

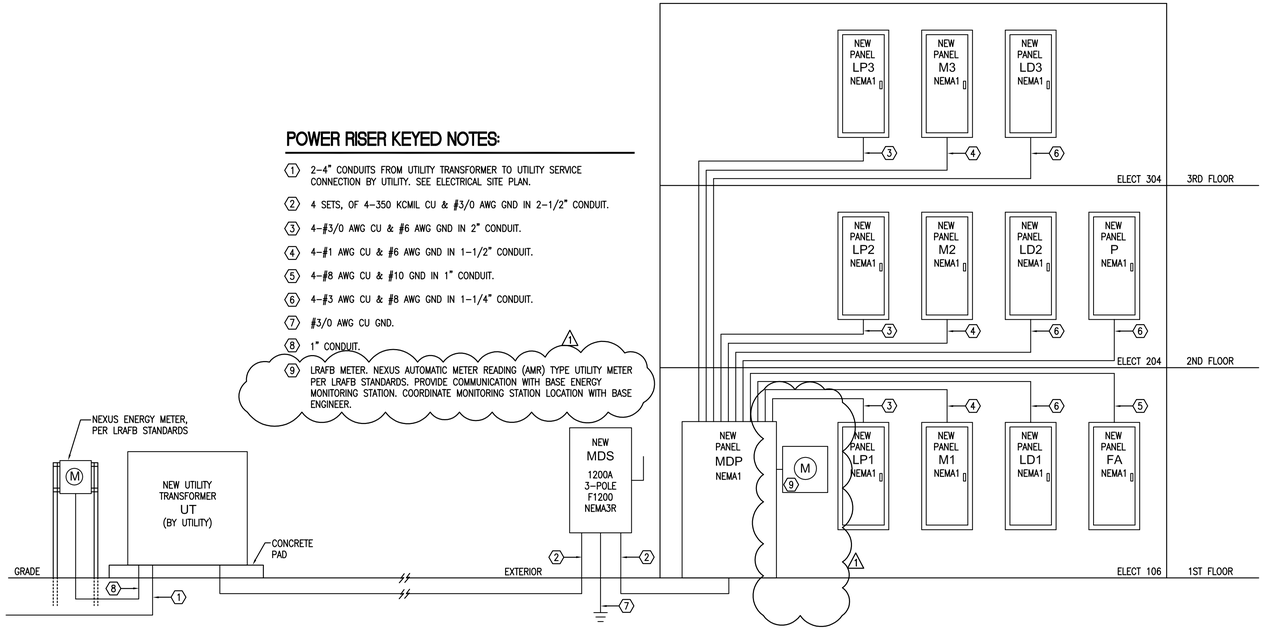


1 POWER AND SYSTEMS PLAN - THIRD FLOOR
SCALE: 1/8" = 1'-0"

ALL CAMERA LOCATIONS INDICATED ARE ROUGH IN ONLY. CAMERAS, CABLING AND SYSTEM BY OTHERS.

POWER RISER KEYED NOTES:

1. 2-4" CONDUITS FROM UTILITY TRANSFORMER TO UTILITY SERVICE CONNECTION BY UTILITY. SEE ELECTRICAL SITE PLAN.
2. 4 SETS, OF 4-350 KCMIL CU & #3/0 AWG GND IN 2-1/2" CONDUIT.
3. 4-#3/0 AWG CU & #6 AWG GND IN 2" CONDUIT.
4. 4-#1 AWG CU & #6 AWG GND IN 1-1/2" CONDUIT.
5. 4-#8 AWG CU & #10 GND IN 1" CONDUIT.
6. 4-#3 AWG CU & #8 AWG GND IN 1-1/4" CONDUIT.
7. #3/0 AWG CU GND.
8. 1" CONDUIT.
9. LRAFB METER. NEXUS AUTOMATIC METER READING (AMR) TYPE UTILITY METER PER LRAFB STANDARDS. PROVIDE COMMUNICATION WITH BASE ENERGY MONITORING STATION. COORDINATE MONITORING STATION LOCATION WITH BASE ENGINEER.



2 POWER RISER DIAGRAM
SCALE: NONE

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

AIR MOBILITY COMMAND
LITTLE ROCK A.F.B.
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STATE OF ARKANSAS
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No. 18933
ERIC C. TAYLOR
2024

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ARKANSAS ENGINEER

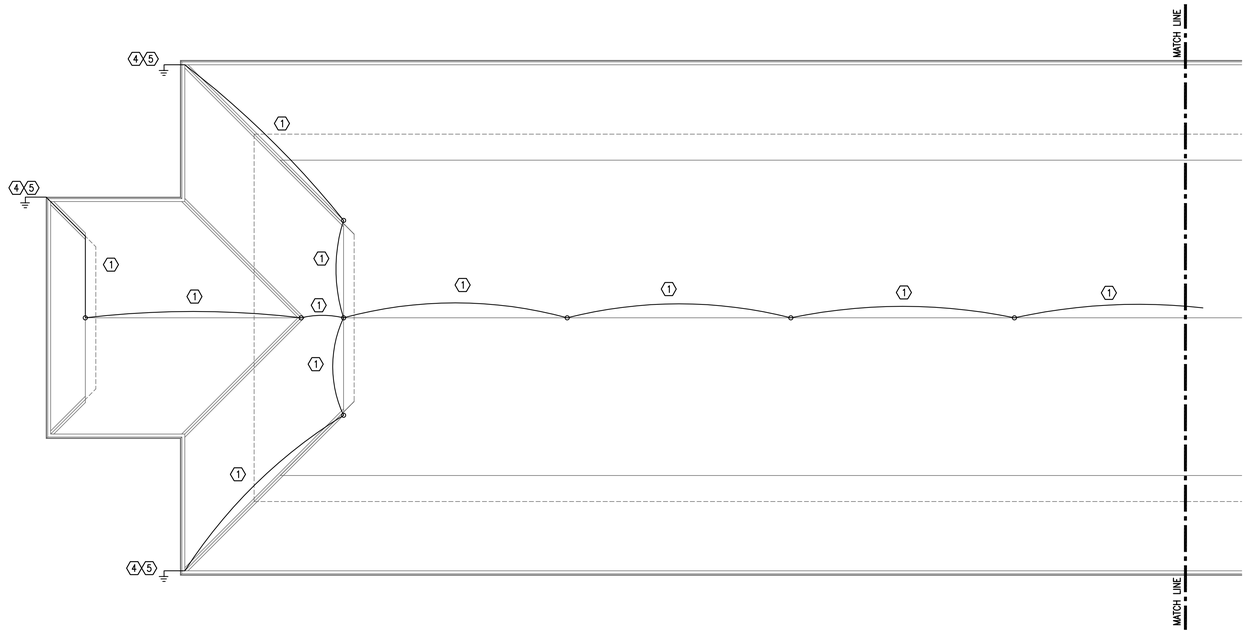
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ENERGY ENGINEERING CONSULTANTS, INC.
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LITTLE ROCK, AR 72205 FX: (501) 244-0241

No.	Revision/Issue	Date	BY	APP'D
1	100 REVISED SUBMITTAL	4/26/24		

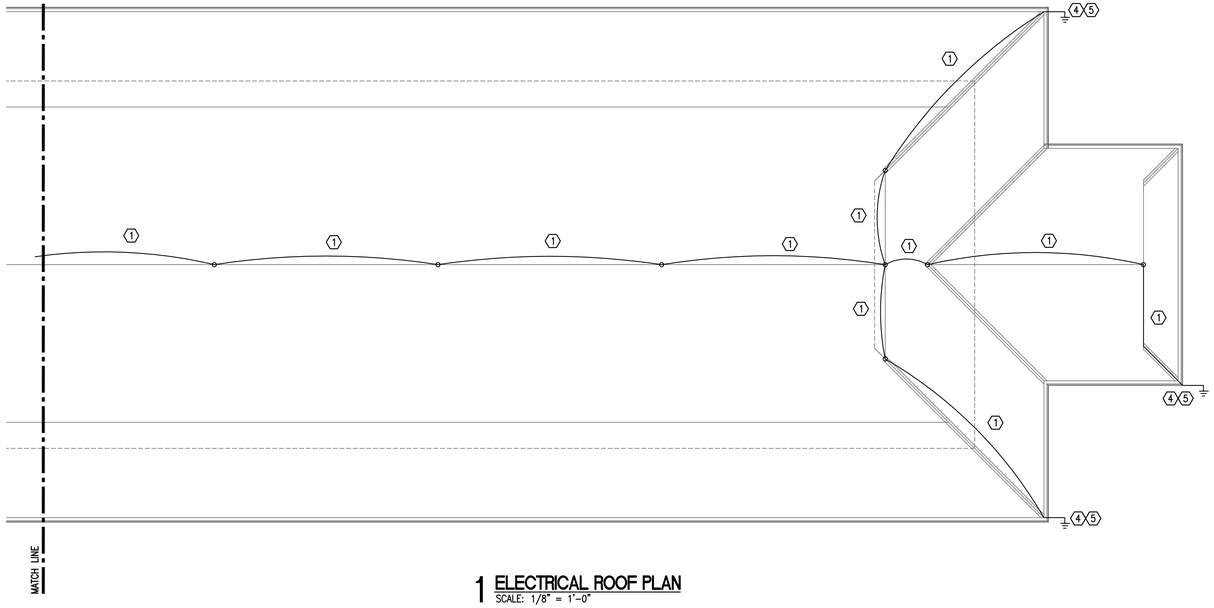
PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: POWER AND SYSTEMS PLAN

DRAWN BY: HS, BD	CHECKED BY: GC
PROJECT MANAGER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: E4.02
DATE: 29 FEB. 2024	
SCALE: AS NOTED	96 OF 100



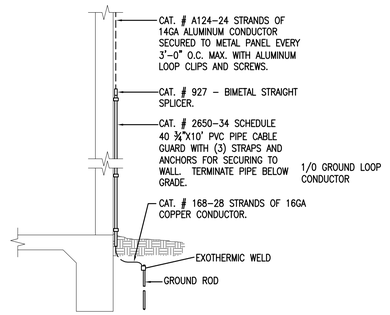
ALL EXOTHERMIC WELDS MUST BE WITNESSED BY A CE ELECTRICAL ENGINEER PRIOR TO COVERING OR HAND EXCAVATION WILL BE REQUIRED FOR INSPECTION.



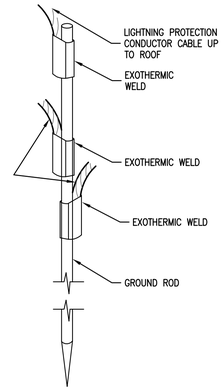
1 ELECTRICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

CABLE SCHEDULE	
1	MAIN CONDUCTOR CABLE, 57,400 CIRCULAR MILS, ALUMINUM, EQUIVALENT TO #2 AWG ALUMINUM MINIMUM.
2	BONDING CONDUCTOR, 26,240 CIRCULAR MILS, ALUMINUM, EQUIVALENT TO #6 AWG ALUMINUM MINIMUM. USE TO BOND METAL BODIES FOR POTENTIAL EQUALIZATION, ONLY AS REQUIRED.
4	NEW GROUND ROD.
5	NEW DOWN CONDUCTOR.

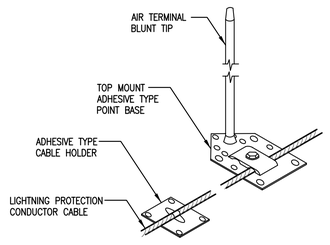
LEGEND	
○	LIGHTNING PROTECTION ELECTRODE
	LIGHTNING PROTECTION CONDUCTOR
	LIGHTNING PROTECTION GROUND ELECTRODE, PROVIDE WITH EXOTHERMIC WELDS. ALL WELDS TO REMAIN UNCOVERED UNTIL INSPECTION BY 19CES.
	EXOTHERMIC WELD UNDERGROUND.



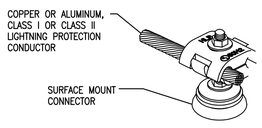
2 DOWNLEAD DETAIL
SCALE: NONE



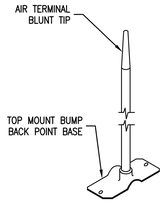
3 GROUND ROD DETAIL
SCALE: NONE



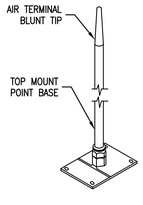
4 ADHESIVE BASE DETAIL
SCALE: NONE



5 SURFACE MOUNT CONNECTOR DETAIL
SCALE: NONE



6 SKYLIGHT BASE DETAIL
SCALE: NONE



7 VENT/MECHANICAL UNIT BASE DETAIL
SCALE: NONE

0' 4' 8' 16'

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

CERTIFICATE OF AUTHORIZATION — ENERGY ENGINEERING CONSULTANTS, INC. — No. 1586 — ARKANSAS ENGINEER

EECI
ENERGY ENGINEERING CONSULTANTS, INC.
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AIR MOBILITY COMMAND

LITTLE ROCK A.F.B.
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STATE OF ARKANSAS — REGISTERED PROFESSIONAL ENGINEER — NO. 18533 — ERIC C. TARVER — 2024

No.	Revision/Issue	Date	BY	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ELECTRICAL ROOF PLAN

DRAWN BY: HS, BD	CHECKED BY: GC
DESIGNED BY: HS	PROJECT NUMBER: NKAK 21-1034
CHECKED BY: GC	SHEET: E5.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	97 OF 100

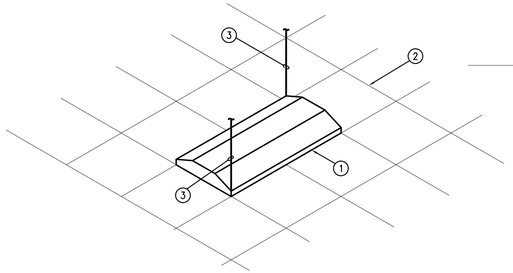
SYMBOLS SCHEDULE

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT IN CONDUIT – (LEFT TO RIGHT) SWITCH LEG, PHASE LEG, NEUTRAL, ISOLATED GROUND, AND EQUIPMENT GROUND.
	ARROWHEAD INDICATES BRANCH CIRCUIT HOMERUN – PNL AND CKT NO. SHOWN COMMAS IN "1,3,5" INDICATES 1, 3 AND 5 ARE INDIVIDUAL 1–PHASE CIRCUITS.
	INDICATES CONDUIT CONCEALED IN OR BELOW FLOOR SLAB OR BFG.
	CONDUIT UP (FULL CIRCLE).
	CONDUIT DOWN (PARTIAL CIRCLE).
	CONDUIT SLEEVE THRU WALL. CONDUIT BUSHING FOR EXITING CABLES.
	CONDUIT OR CIRCUIT CONTINUATION.
A, A1	LIGHT FIXTURE. UPPER CASE LETTER(S) INDICATE FIXTURE TYPE–SEE FIXTURE SCHEDULE. LOWER CASE LETTER (IF PRESENT) INDICATES SWITCHING SCHEME. REFER TO SWITCH WITH SAME LOWER CASE LETTER.
EM	EMERGENCY LIGHT FIXTURE. EMERGENCY DESIGNATION IS INDICATED BY DIAGONAL SHADING OR MAY BE INDICATED BY "EM" ADJACENT TO FIXTURE. CONNECTED TO EMERGENCY POWER SYSTEMS.
	STRIP LIGHT – CEILING MOUNTED OR CHAIN HUNG
	STRIP LIGHT – WALL MOUNTED
	LIGHT FIXTURE – WALL MOUNTED
	DOWNLIGHT FIXTURES – CEILING MTD
	LIGHT FIXTURE – WALL MOUNTED
	EXIT LIGHTS – WALL MT. & CEILING MT. SHOWN – ARROW INDICATES FACE(S), DIRECTIONAL ARROWS SHALL BE AS SHOWN ON PLANS
J	JUNCTION BOX
D	DISCONNECT SWITCH
	SURFACE MOUNTED PANELBOARD SHOWN ADJACENT TO ARCHITECTURAL WALL
S	SINGLE–POLE LIGHT SWITCH, ROCKER AND TOGGLE
S_3	THREE–WAY LIGHT SWITCH, ROCKER AND TOGGLE
S_4	FOUR–WAY LIGHT SWITCH, ROCKER AND TOGGLE
S_D	DIMMER CONTROL SWITCH OR STATION
S_M	30A MANUAL MOTOR STARTER WITH OVERLOADS, TOGGLE OPERATED
	DUPLEX RECEPTACLE
	QUADRAPLEX RECEPTACLE (4–PLEX).
GFI SP WP TP AC	SPECIAL DUPLEX RECEPTACLE GROUND FAULT INTERRUPTING, SURGE PROTECTION, WEATHERPROOF, TAMPER PROOF AND ABOVE COUNTER TYPES INDICATED.
	SPECIAL PURPOSE RECEPTACLE
▽ ▼ ▼	COMPUTER DATA OUTLET, PHONE OUTLET, COMBINATION DATA, TELEPHONE OUTLET NUMBER INDICATES QUANTITY OF JACKS
	CAMERA LOCATION. COORDINATE DATA JACK OR MOD PLUG WITH CAMERA TO BE INSTALLED. WP WHEN INSTALLED EXTERIOR.
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
EC	ELECTRICAL CONTRACTOR
ETR	EXISTING TO REMAIN
GFI	GROUND FAULT INTERRUPTING
GRD	GROUND
MTD	MOUNTED
NFDS	NON–FUSED DISCONNECT SWITCH
WP	WEATHERPROOF
(So)	OCCUPANCY SENSOR, CEILING
So	OCCUPANCY SENSOR, WALL
TV	TV OUTLET BOX. FLUSH. ONE DUPLEX RECEPTACLE, ONE CAT6 OUTLET AND ONE RG–6 COAXIAL F–TYPE CONNECTOR.

SYMBOLS SCHEDULE NOTES:
1. NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT.
2. SYMBOLS SHOWN DASHED ON PLANS INDICATES EXISTING DEVICES, FIXTURES, EQUIPMENT, ETC...

GENERAL NOTES (ALL ELECTRICAL SHEETS)

1. EACH CIRCUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR, AND MULTI–WIRE CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUND. EQUIPMENT GROUND CONDUCTOR SIZE SHALL NOT BE LESS THAN #12 AWG OR AS INDICATED ON THE DRAWINGS.
2. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED ON DRAWINGS. ALL CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS.
5. ALL WORK SHALL COMPLY WITH THE LATEST (2020) EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70 NEC) AND ANY APPLICABLE LOCAL CODES.
6. ALL ELECTRICAL EQUIPMENT (CONDUIT, BOXES, SUPPORTS, ETC) INSTALLED IN ALL EXPOSED CEILING AREAS SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT.
7. ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT.
8. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED UPON ACTUAL NAMEPLATE RATINGS ON THE MOTORS BEING INSTALLED.
9. ALL 15A AND 20A, 115V AND 250V NON–LOCKING RECEPTACLES SHALL BE TAMPER–PROOF TYPE.



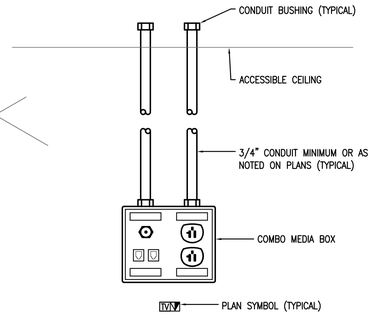
LIGHT FIXTURE DETAIL NOTES:

(1) 2'x2' OR 2'x4' LAY–IN LIGHT FIXTURE.

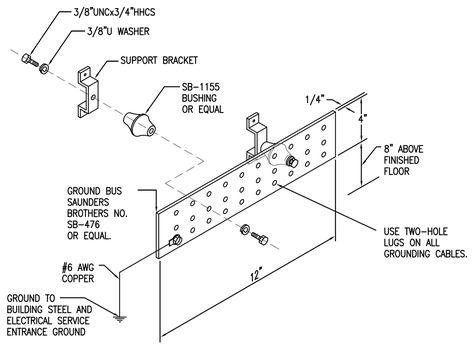
(2) SUSPENDED CEILING.

(3) TIE WIRE; CONNECT A MINIMUM OF (2) OPPOSITE CORNERS OF FIXTURE TO STRUCTURE ABOVE INDEPENDENT OF OTHER CEILING SUPPORTS.

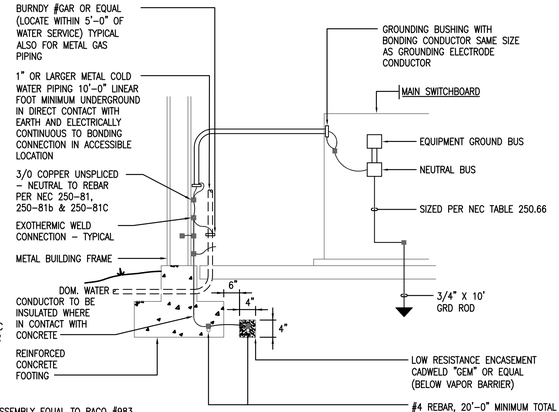
1 TYPICAL LAY–IN FIXTURE SUPPORT
SCALE: NONE



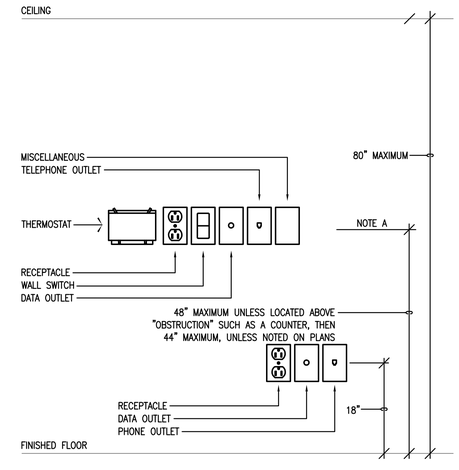
2 TELECOMMUNICATIONS OUTLETS
SCALE: NONE



3 DATA RACK AND TELEPHONE BOARD GROUNDING BAR
SCALE: NONE



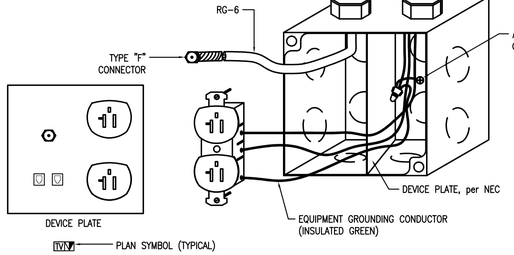
4 SERVICE GROUND DETAIL
SCALE: NONE



GENERAL MOUNTING HEIGHT NOTES:

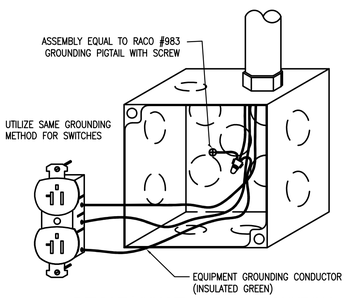
A. COORDINATE WITH ARCHITECT FOR EXACT LOCATION AND ELEVATION OF ALL DEVICES IN PROXIMITY TO SINKS, COUNTERTOPS, BACK SPLASHES, CABINETRY AND ARCHITECTURAL FEATURE ELEMENTS.

5 TYPICAL DEVICE MOUNTING HEIGHTS
SCALE: NONE

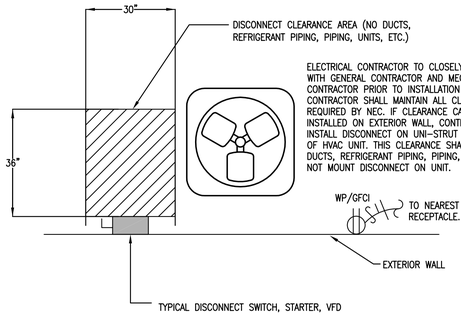


NOTE:
1. PROVIDE A COMBINATION DUPLEX RECEPTACLE AND TYPE "F" OUTLET DEVICE PLATE.

6 CATV OUTLET/RECEPTACLE
SCALE: NONE



7 DEVICE/JUNCTION BOX GROUNDING
SCALE: NONE



8 HVAC UNIT DISCONNECT CLEARANCE DETAIL
SCALE: NONE

BUILT–IN APPLIANCES SHALL NOT SHARE 120V POWER CIRCUIT WITH COUNTER TOP CONVENIENCE RECEPTACLES.

MAINTAIN 12 FOOT MAX DISTANCE FROM DUPLEX RECEPTACLE TO DUPLEX RECEPTACLE.

NO SHARED NEUTRAL CONDUCTORS FOR NEW CIRCUITS.

RECEPTACLE TYPE CHART PER NEC 2020 (ALL ELECTRICAL SHEETS)

LOCATION	RECEPTACLE OR BREAKER TYPE
BATHROOMS	GFCI
GARAGE/SHED	GFCI
OUTDOORS	GFCI WITH WEATHERPROOF COVER
KITCHEN COUNTERTOPS	GFCI
WITHIN 6FT OF SINKS/TUBS/SHOWERS	GFCI
LAUNDRY	GFCI
DISHWASHER	GFCI
KITCHEN	AFCI
FAMILY ROOMS	AFCI
DINING ROOMS	AFCI
LIVING ROOMS	AFCI
PARLORS	AFCI
LIBRARIES	AFCI
DENS	AFCI
BEDROOMS	AFCI
SUNROOM	AFCI
RECREATION	AFCI
CLOSETS	AFCI
HALLWAYS	AFCI
LAUNDRY	AFCI
LIGHTING	AFCI
ALL LOCATIONS	TAMPER PROOF

CERTIFICATE OF AUTHORIZATION – ENERGY ENGINEERING CONSULTANTS, INC. No. 1586 – ARKANSAS ENGINEER

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10 CORPORATE HILL DR, STE. 100 PH: (501) 244-0511
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PHONE: 501-375-3380
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STATE OF ARKANSAS – REGISTERED PROFESSIONAL ENGINEER – NO. 18933 – ERIC C. TAYLOR – 2-29-24

No.	Revision/Issue	Date	By	APP'D

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ELECTRICAL DETAILS

DRAWN BY: HS, BD	LEAD DESIGNER: GC
DESIGNED BY: HS	CONTRACT NUMBER: NKAK 21-1034
CHECKED BY: GC	SHEET: E6.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	98 OF 100

PANELBOARD:	LP1	VOLTAGE:	208/120	BUS RATING:	200A (NOTE 1) CU	MAIN:	MLO	TOTAL CONNECTED VA:	38,600
LOCATION:	ELECTRICAL 106	MFG. AND TYPE:	SQUARE D, EATON OR EQUAL	EQUIPMENT GROUND BUSS	YES	ISOL GND BUS:	NO	TOTAL A PHASE:	13,600
MOUNTING:	SURFACE	ENCLOSURE:	NEMA1	MINIMUM A.I.C. RATING:	10,000	FED FROM:	MDP	TOTAL B PHASE:	12,800
								TOTAL C PHASE:	12,200

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
800			LIGHTING	20/1	1	-|o|-	———	———	2	20/1	LIGHTING	800		
	800		LIGHTING	20/1	3	———	-|o|-	———	4	20/1	LIGHTING		800	
		800	LIGHTING	20/1	5	———	———	-|o|-	6	20/1	LIGHTING			800
800			EXTERIOR LIGHTING	20/1	7	-|o|-	———	———	8	20/1	EXTERIOR LIGHTING	800		
	800		LIGHTING	20/1	9	———	-|o|-	———	10	20/1	RECEPTACLES		800	
		400	RECEPTACLES	20/1	11	———	———	-|o|-	12	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	13	-|o|-	———	———	14	20/1	RECEPTACLES	800		
	800		RECEPTACLES	20/1	15	———	-|o|-	———	16	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	17	———	———	-|o|-	18	20/1	RECEPTACLES			400
800			RECEPTACLES	20/1	19	-|o|-	———	———	20	20/1	RECEPTACLES	800		
	400		RECEPTACLES	20/1	21	———	-|o|-	———	22	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	23	———	———	-|o|-	24	20/1	RECEPTACLES			800
800			RECEPTACLES	20/1	25	-|o|-	———	———	26	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	27	———	-|o|-	———	28	20/1	RECEPTACLES		400	
		800	RECEPTACLES	20/1	29	———	———	-|o|-	30	20/1	RECEPTACLES			800
400			RECEPTACLES	20/1	31	-|o|-	———	———	32	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	33	———	-|o|-	———	34	20/1	RECEPTACLES		800	
		800	RECEPTACLES	20/1	35	———	———	-|o|-	36	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	37	-|o|-	———	———	38	20/1	RECEPTACLES	400		
	800		RECEPTACLES	20/1	39	———	-|o|-	———	40	20/1	RECEPTACLES		800	
		400	RECEPTACLES	20/1	41	———	———	-|o|-	42	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	43	-|o|-	———	———	44	20/1	RECEPTACLES	800		
	800		RECEPTACLES	20/1	45	———	-|o|-	———	46	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	47	———	———	-|o|-	48	20/1	RECEPTACLES			400
800			RECEPTACLES	20/1	49	-|o|-	———	———	50	20/1	RECEPTACLES	800		
	400		RECEPTACLES	20/1	51	———	-|o|-	———	52	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	53	———	———	-|o|-	54	20/1	RECEPTACLES			800
800			RECEPTACLES	20/1	55	-|o|-	———	———	56	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	57	———	-|o|-	———	58	20/1	RECEPTACLES		400	
		800	RECEPTACLES	20/1	59	———	———	-|o|-	60	20/1	RECEPTACLES			800
400			RECEPTACLES	20/1	61	-|o|-	———	———	62	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	63	———	-|o|-	———	64	20/1	RECEPTACLES		800	
		600	EXTERIOR LIGHTING	20/1	65	———	———	-|o|-	66	20/1	SPARE			
			SPARE	20/1	67	-|o|-	———	———	68	20/1	SPARE			
			SPARE	20/1	69	———	-|o|-	———	70	20/1	SPARE			
			SPARE	20/1	71	———	———	-|o|-	72	20/1	SPARE			
			SPARE	20/1	73	-|o|-	———	———	74	20/1	SPARE			
			SPARE	20/1	75	———	-|o|-	———	76	20/1	SPARE			
			SPARE	20/1	77	———	———	-|o|-	78	20/1	SPARE			
			SPARE	20/1	79	-|o|-	———	———	80	20/1	SPARE			
			SPARE	20/1	81	———	-|o|-	———	82	20/1	SPARE			
			SPARE	20/1	83	———	———	-|o|-	84	20/1	SPARE			
6800	6400	6200	SIDE TOTALS								SIDE TOTALS	6800	6400	6000

NOTE:
1 PANEL CAN BE ONE 84 CIRCUIT, OR TWO CONNECTED 42 CIRCUIT.

PANELBOARD:	LP2	VOLTAGE:	208/120	BUS RATING:	200A (NOTE 1) CU	MAIN:	MLO	TOTAL CONNECTED VA:	43,600
LOCATION:	ELECTRICAL 204	MFG. AND TYPE:	SQUARE D, EATON OR EQUAL	EQUIPMENT GROUND BUSS	YES	ISOL GND BUS:	NO	TOTAL A PHASE:	15,600
MOUNTING:	SURFACE	ENCLOSURE:	NEMA1	MINIMUM A.I.C. RATING:	10,000	FED FROM:	MDP	TOTAL B PHASE:	14,400
								TOTAL C PHASE:	13,600

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
800			LIGHTING	20/1	1	-|o|-	———	———	2	20/1	LIGHTING	800		
	800		LIGHTING	20/1	3	———	-|o|-	———	4	20/1	LIGHTING		800	
		800	LIGHTING	20/1	5	———	———	-|o|-	6	20/1	LIGHTING			800
800			EXTERIOR LIGHTING	20/1	7	-|o|-	———	———	8	20/1	EXTERIOR LIGHTING	800		
	800		LIGHTING	20/1	9	———	-|o|-	———	10	20/1	RECEPTACLES		800	
		400	RECEPTACLES	20/1	11	———	———	-|o|-	12	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	13	-|o|-	———	———	14	20/1	RECEPTACLES	800		
	800		RECEPTACLES	20/1	15	———	-|o|-	———	16	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	17	———	———	-|o|-	18	20/1	RECEPTACLES			400
800			RECEPTACLES	20/1	19	-|o|-	———	———	20	20/1	RECEPTACLES	800		
	400		RECEPTACLES	20/1	21	———	-|o|-	———	22	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	23	———	———	-|o|-	24	20/1	RECEPTACLES			800
800			RECEPTACLES	20/1	25	-|o|-	———	———	26	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	27	———	-|o|-	———	28	20/1	RECEPTACLES		400	
		800	RECEPTACLES	20/1	29	———	———	-|o|-	30	20/1	RECEPTACLES			800
400			RECEPTACLES	20/1	31	-|o|-	———	———	32	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	33	———	-|o|-	———	34	20/1	RECEPTACLES		800	
		800	RECEPTACLES	20/1	35	———	———	-|o|-	36	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	37	-|o|-	———	———	38	20/1	RECEPTACLES	400		
	800		RECEPTACLES	20/1	39	———	-|o|-	———	40	20/1	RECEPTACLES		800	
		400	RECEPTACLES	20/1	41	———	———	-|o|-	42	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	43	-|o|-	———	———	44	20/1	RECEPTACLES	800		
	800		RECEPTACLES	20/1	45	———	-|o|-	———	46	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	47	———	———	-|o|-	48	20/1	RECEPTACLES			400
800			RECEPTACLES	20/1	49	-|o|-	———	———	50	20/1	RECEPTACLES	800		
	400		RECEPTACLES	20/1	51	———	-|o|-	———	52	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	53	———	———	-|o|-	54	20/1	RECEPTACLES			800
800			RECEPTACLES	20/1	55	-|o|-	———	———	56	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	57	———	-|o|-	———	58	20/1	RECEPTACLES		400	
		800	RECEPTACLES	20/1	59	———	———	-|o|-	60	20/1	RECEPTACLES			800
400			RECEPTACLES	20/1	61	-|o|-	———	———	62	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	63	———	-|o|-	———	64	20/1	RECEPTACLES		800	
		800	RECEPTACLES	20/1	65	———	———	-|o|-	66	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	67	-|o|-	———	———	68	20/1	RECEPTACLES	400		
	800		RECEPTACLES	20/1	69	———	-|o|-	———	70	20/1	RECEPTACLES		800	
		400	RECEPTACLES	20/1	71	———	———	-|o|-	72	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	73	-|o|-	———	———	74	20/1	RECEPTACLES	800		
			SPARE	20/1	75	———	-|o|-	———	76	20/1	SPARE			
			SPARE	20/1	77	———	———	-|o|-	78	20/1	SPARE			
			SPARE	20/1	79	-|o|-	———	———	80	20/1	SPARE			
			SPARE	20/1	81	———	-|o|-	———	82	20/1	SPARE			
			SPARE	20/1	83	———	———	-|o|-	84	20/1	SPARE			
7600	7200	6800	SIDE TOTALS								SIDE TOTALS	8000	7200	6800

NOTE:
1 PANEL CAN BE ONE 84 CIRCUIT, OR TWO CONNECTED 42 CIRCUIT.

PANELBOARD:	LP3	VOLTAGE:	208/120	BUS RATING:	200A (NOTE 1) CU	MAIN:	MLO	TOTAL CONNECTED VA:	43,600
LOCATION:	ELECTRICAL 304	MFG. AND TYPE:	SQUARE D, EATON OR EQUAL	EQUIPMENT GROUND BUSS	YES	ISOL GND BUS:	NO	TOTAL A PHASE:	15,600
MOUNTING:	SURFACE	ENCLOSURE:	NEMA1	MINIMUM A.I.C. RATING:	10,000	FED FROM:	MDP	TOTAL B PHASE:	14,400
								TOTAL C PHASE:	13,600

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
800			LIGHTING	20/1	1	-|o|-	———	———	2	20/1	LIGHTING	800		
	800		LIGHTING	20/1	3	———	-|o|-	———	4	20/1	LIGHTING		800	
		800	LIGHTING	20/1	5	———	———	-|o|-	6	20/1	LIGHTING			800
800			EXTERIOR LIGHTING	20/1	7	-|o|-	———	———	8	20/1	EXTERIOR LIGHTING	800		
	800		LIGHTING	20/1	9	———	-|o|-	———	10	20/1	RECEPTACLES		800	
		400	RECEPTACLES	20/1	11	———	———	-|o|-	12	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	13	-|o|-	———	———	14	20/1	RECEPTACLES	800		
	800		RECEPTACLES	20/1	15	———	-|o|-	———	16	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	17	———	———	-|o|-	18	20/1	RECEPTACLES			400
800			RECEPTACLES	20/1	19	-|o|-	———	———	20	20/1	RECEPTACLES	800		
	400		RECEPTACLES	20/1	21	———	-|o|-	———	22	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	23	———	———	-|o|-	24	20/1	RECEPTACLES			800
800			RECEPTACLES	20/1	25	-|o|-	———	———	26	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	27	———	-|o|-	———	28	20/1	RECEPTACLES		400	
		800	RECEPTACLES	20/1	29	———	———	-|o|-	30	20/1	RECEPTACLES			800
400			RECEPTACLES	20/1	31	-|o|-	———	———	32	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	33	———	-|o|-	———	34	20/1	RECEPTACLES		800	
		800	RECEPTACLES	20/1	35	———	———	-|o|-	36	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	37	-|o|-	———	———	38	20/1	RECEPTACLES	400		
	800		RECEPTACLES	20/1	39	———	-|o|-	———	40	20/1	RECEPTACLES		800	
		400	RECEPTACLES	20/1	41	———	———	-|o|-	42	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	43	-|o|-	———	———	44	20/1	RECEPTACLES	800		
	800		RECEPTACLES	20/1	45	———	-|o|-	———	46	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	47	———	———	-|o|-	48	20/1	RECEPTACLES			400
800			RECEPTACLES	20/1	49	-|o|-	———	———	50	20/1	RECEPTACLES	800		
	400		RECEPTACLES	20/1	51	———	-|o|-	———	52	20/1	RECEPTACLES		400	
		400	RECEPTACLES	20/1	53	———	———	-|o|-	54	20/1	RECEPTACLES			800
800			RECEPTACLES	20/1	55	-|o|-	———	———	56	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	57	———	-|o|-	———	58	20/1	RECEPTACLES		400	
		800	RECEPTACLES	20/1	59	———	———	-|o|-	60	20/1	RECEPTACLES			800
400			RECEPTACLES	20/1	61	-|o|-	———	———	62	20/1	RECEPTACLES	400		
	400		RECEPTACLES	20/1	63	———	-|o|-	———	64	20/1	RECEPTACLES		800	
		800	RECEPTACLES	20/1	65	———	———	-|o|-	66	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	67	-|o|-	———	———	68	20/1	RECEPTACLES	400		
	800		RECEPTACLES	20/1	69	———	-|o|-	———	70	20/1	RECEPTACLES		800	
		400	RECEPTACLES	20/1	71	———	———	-|o|-	72	20/1	RECEPTACLES			400
400			RECEPTACLES	20/1	73	-|o|-	———	———	74	20/1	RECEPTACLES	800		
			SPARE	20/1	75	———	-|o|-	———	76	20/1	SPARE			
			SPARE	20/1	77	———	———	-|o|-	78	20/1	SPARE			
			SPARE	20/1	79	-|o|-	———	———	80	20/1	SPARE			
			SPARE	20/1	81	———	-|o|-	———	82	20/1	SPARE			
			SPARE	20/1	83	———	———	-|o|-	84	20/1	SPARE			
7600	7200	6800	SIDE TOTALS								SIDE TOTALS	8000	7200	6800

NOTE:
1 PANEL CAN BE ONE 84 CIRCUIT, OR TWO CONNECTED 42 CIRCUIT.

PANELBOARD:	M1	VOLTAGE:	208/120	BUS RATING:	125A CU	MAIN:	MLO	TOTAL CONNECTED VA:	18,036
LOCATION:	ELECTRICAL 106	MFG. AND TYPE:	SQUARE D, EATON OR EQUAL	EQUIPMENT GROUND BUSS	YES	ISOL GND BUS:	NO	TOTAL A PHASE:	6,268
MOUNTING:	SURFACE	ENCLOSURE:	NEMA1	MINIMUM A.I.C. RATING:	10,000	FED FROM:	MDP	TOTAL B PHASE:	5,714
								TOTAL C PHASE:	6,054

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
1600			B-1	20/1	1	-|o|-	———	———	2	20/2	UH-1	1654		
	1186		DS-1	20/2	3	———	-|o|-	———	4				1654	
		1186			5	———	———	-|o|-	6	20/2	UH-2			1654
300			FCU'S	20/2	7	-|o|-	———	———	8			1654		
	300				9	———	-|o|-	———	10	20/2	UH-3		1654	
		300	FCU'S	20/2	11	———	———	-|o|-	12					1654
300					13	-|o|-	———	———	14	20/2	FCU'S	260		
	260		FCU'S	20/2	15	———	-|o|-	———	16				260	
		260			17	———	———	-|o|-	18	20/1	RECEPTACLES			400
500			FCU'S	20/1	19	-|o|-	———	———	20	20/1	SPARE			
	400		DDC PANEL	20/1	21	———	-|o|-	———	22	20/1	SPARE			
		600	RECEPTACLES	20/1	23	———	———	-|o|-	24	20/1	SPARE			
			SPARE	20/1	25	-|o|-	———	———	26	20/1	SPARE			
			SPARE	20/1	27	———	-|o|-	———	28	20/1	SPARE			
			SPARE	20/1	29	———	———	-|o|-	30	20/1	SPARE			
2700	2146	2346	SIDE TOTALS								SIDE TOTALS	3568	3568	3708

PANELBOARD:	M2	VOLTAGE:	208/120	BUS RATING:	125A CU	MAIN:	MLO	TOTAL CONNECTED VA:	8,680
LOCATION:	ELECTRICAL 204	MFG. AND TYPE:	SQUARE D, EATON OR EQUAL	EQUIPMENT GROUND BUSS	YES	ISOL GND BUS:	NO	TOTAL A PHASE:	2,436
MOUNTING:	SURFACE	ENCLOSURE:	NEMA1	MINIMUM A.I.C. RATING:	10,000	FED FROM:	MDP	TOTAL B PHASE:	2,804
								TOTAL C PHASE:	3,440

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
300			FCU'S	20/2	1	-|o|-	———	———	2	20/2	FCU'S	350		
	300				3	———	-|o|-	———	4				350	
		300			5	———	———	-|o|-	6	20/2	FCU'S			300
300			FCU'S	20/2	7	-|o|-	———	———	8			300		
	500		FCU'S	20/1	9	———	-|o|-	———	10	20/2	UH-3		1654	
		1186	DS-2	20/2	11	———	———	-|o|-	12					1654
1186					13	-|o|-	———	———	14	20/1	SPARE			
			SPARE	20/1	15	———	-|o|-	———	16	20/1	SPARE			
			SPARE	20/1	17	———	———	-|o|-	18	20/1	SPARE			
			SPARE	20/1	19	-|o|-	———	———	20	20/1	SPARE			
			SPARE	20/1	21	———	-|o|-	———	22	20/1	SPARE			
			SPARE	20/1	23	———	———	-|o|-	24	20/1	SPARE			
			SPARE	20/1	25	-|o|-	———	———	26	20/1	SPARE			
			SPARE	20/1	27	———	-|o|-	———	28	20/1	SPARE			
			SPARE	20/1	29	———	———	-|o|-	30	20/1	SPARE			
1786	800	1486	SIDE TOTALS								SIDE TOTALS	650	2004	1954

PANELBOARD:	M3	VOLTAGE:	208/120	BUS RATING:	125A CU	MAIN:	MLO	TOTAL CONNECTED VA:	8,880
LOCATION:	ELECTRICAL 304	MFG. AND TYPE:	SQUARE D, EATON OR EQUAL	EQUIPMENT GROUND BUSS	YES	ISOL GND BUS:	NO	TOTAL A PHASE:	2,436
MOUNTING:	SURFACE	ENCLOSURE:	NEMA1	MINIMUM A.I.C. RATING:	10,000	FED FROM:	MDP	TOTAL B PHASE:	3,990
								TOTAL C PHASE:	2,454

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
300			FCU'S	20/2	1	-|o|-	———	———	2	20/2	FCU'S	350		
	300				3	———	-|o|-	———	4				350	
		300			5	———	———	-|o|-	6	20/2	FCU'S			300
300			FCU'S	20/2	7	-|o|-	———	———	8			300		
	500		FCU'S	20/1	9	———	-|o|-	———	10	20/2	UH-3		1654	
		200	EF-1	20/1	11	———	———	-|o|-	12					1654
1186			DS-3	20/2	13	-|o|-	———	———	14	20/1	SPARE			
	1186				15	———	-|o|-	———	16	20/1	SPARE			
			SPARE	20/1	17	———	———	-|o|-	18	20/1	SPARE			
			SPARE	20/1	19	-|o|-	———	———	20	20/1	SPARE			
			SPARE	20/1	21	———	-|o|-	———	22	20/1	SPARE			
			SPARE	20/1	23	———	———	-|o|-	24	20/1	SPARE			
			SPARE	20/1	25	-|o|-	———	———	26	20/1	SPARE			
			SPARE	20/1	27	———	-|o|-	———	28	20/1	SPARE			
			SPARE	20/1	29	———	———	-|o|-	30	20/1	SPARE			
1786	1986	500	SIDE TOTALS								SIDE TOTALS	650	2004	1954

CERTIFICATE OF AUTHORIZATION
ENERGY ENGINEERING CONSULTANTS, INC.
No. 1586
ARKANSAS ENGINEER

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18933
ERIC C. TAYLOR
12-31-2024

No.	Revision/Issue	Date	By

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854

SHEET TITLE: ELECTRICAL SCHEDULES

DESIGNED BY: HS, BD	DRAWN BY: GC
CHECKED BY: HS	PROJECT NUMBER: NKAK 21-1034
APPROVED BY: GC	SHEET: E7.01
DATE: 29 FEB. 2024	
SCALE: AS NOTED	99 OF 100

MAIN DISTRIBUTION PANEL - MDP

1200AMP BUS, 208Y120V. 3-PHASE, 4-WIRE WITH SOLID NEUTRAL BUS, EQUIPMENT GROUND BUS, MAIN LUGS ONLY. MINIMUM SHORT CIRCUIT RATING OF DISTRIBUTION CENTER AND BREAKERS HALL BE 24,000 AMPS RMS SYMETTRICAL. TRANSIENT VOLTAGE SURGE SUPPRESION (TVSS) SHALL BE INSTALLED IN MAIN DISTRIBUTION PANEL. COPPER BUSSING, MANUFACTURER SHALL BE SQUARE D, EATON OR EQUAL. NEMA 1

CIRCUIT	SERVES	CONNECTED LOAD (VA)	POLE	FRAME (A)	TRIP (A)	WIRE	CONDUIT SIZE (INCHES)
1	PANEL LP1	43,000	3	200	200	SEE POWER RISER DIAGRAM	
2	PANEL LP2	43,600	3	200	200	SEE POWER RISER DIAGRAM	
3	PANEL LP3	43,600	3	200	200	SEE POWER RISER DIAGRAM	
4	PANEL M1	35,916	3	150	125	SEE POWER RISER DIAGRAM	
5	PANEL M2	25,248	3	150	125	SEE POWER RISER DIAGRAM	
6	PANEL M3	27,468	3	150	125	SEE POWER RISER DIAGRAM	
7	PANEL FA	6,000	3	60	50	SEE POWER RISER DIAGRAM	
8	PANEL P	32,520	3	100	100	SEE POWER RISER DIAGRAM	
9	PANEL LD1	24,968	3	100	100	SEE POWER RISER DIAGRAM	
10	PANEL LD2	24,568	3	100	100	SEE POWER RISER DIAGRAM	
11	PANEL LD3	24,668	3	100	100	SEE POWER RISER DIAGRAM	
12	CHILLER CH-1	127,534	3	400	400	3-500KCMIL & #3 AWG GND	3
13	ERAHU-1 (2X5HP)	12,033	3	60	45	3-#8 AWG & #12 GND	1
14	PUMP CHP-1 (7.5HP)	8,718	3	60	35	3-#8 AWG & #12 GND	1
15	PUMP SWP-1 (7.5HP)	8,718	3	60	35	3-#8 AWG & #12 GND	1
16	PUMP HWP-1 (5HP)	6,016	3	30	30	3-#10 AWG & #12 GND	3/4
17	SPACE		3	----	----		
18	SPACE		3	----	----		
19	SPACE		3	----	----		
20	SPACE		3	----	----		
	TOTAL CONNECTED LOAD (KVA)	494,575					

PANELBOARD: FA | VOLTAGE: 208/120 | BUS RATING: 60A CU | MAIN: MLO | TOTAL CONNECTED VA: 6,000
LOCATION: RISER ROOM 122 | MFG. AND TYPE: SQUARE D, EATON OR EQUAL | EQUIPMENT GROUND BUSS: YES | ISOL GND BUS: NO | TOTAL A PHASE: 2,000
MOUNTING: SURFACE | ENCLOSURE:NEMA1 | MINIMUM A.I.C. RATING: 10,000 | FED FROM: MDP | TOTAL B PHASE: 2,000 | TOTAL C PHASE: 2,000

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
1000			FA LOADS	20/1	1	-x(-	——	——	2	20/1	FA LOADS	1000		
	1000		FA LOADS	20/1	3	——	-x(-	——	4	20/1	FA LOADS		1000	
		1000	FA LOADS	20/1	5	——	——	-x(-	6	20/1	FA LOADS			1000
			SPARE	20/1	7	-x(-	——	——	8	20/1	SPARE			
			SPARE	20/1	9	——	-x(-	——	10	20/1	SPARE			
			SPARE	20/1	11	——	——	-x(-	12	20/1	SPARE			
1000	1000	1000	SIDE TOTALS						SIDE TOTALS			1000	1000	1000

PANELBOARD: P | VOLTAGE: 208/120 | BUS RATING: 100A CU | MAIN: MLO | TOTAL CONNECTED VA: 32,520
LOCATION: ELECTRICAL 204 | MFG. AND TYPE: EATON OR EQUAL | EQUIPMENT GROUND BUSS: YES | ISOL GND BUS: NO | TOTAL A PHASE: 9,200
MOUNTING: SURFACE | ENCLOSURE:NEMA1 | MINIMUM A.I.C. RATING: 10,000 | FED FROM: MDP | TOTAL B PHASE: 11,760 | TOTAL C PHASE: 11,560

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
600			RECEPTACLES	20/1	1	-x(-	——	——	2	20/1	RECEPTACLES	800		
	400		RECEPTACLES	20/1	3	——	-x(-	——	4	20/1	RECEPTACLES		600	
		400	RECEPTACLES	20/1	5	——	——	-x(-	6	20/1	RECEPTACLES			1000
600			RECEPTACLES	20/1	7	-x(-	——	——	8	20/1	RECEPTACLES	600		
	600		RECEPTACLES	20/1	9	——	-x(-	——	10	20/1	RECEPTACLES		1200	
		1200	RECEPTACLES	20/1	11	——	——	-x(-	12	20/1	RECEPTACLES			800
800			RECEPTACLES	20/1	13	-x(-	——	——	14	20/1	RECEPTACLES	400		
	600		RECEPTACLES	20/1	15	——	-x(-	——	16	20/1	RECEPTACLES		600	
		1000	RECEPTACLES	20/1	17	——	——	-x(-	18	20/1	RECEPTACLES			1000
1000			RECEPTACLES	20/1	19	-x(-	——	——	20	20/1	RECEPTACLES	800		
	4160		RANGE	50/2	21	——	-x(-	——	22	20/1	RECEPTACLES		400	
		4160			23	——	——	-x(-	24	20/1	RECEPTACLES			400
600			RECEPTACLES	20/1	25	-x(-	——	——	26	20/1	RECEPTACLES	1200		
	1200		RECEPTACLES	20/1	27	——	-x(-	——	28	20/1	RECEPTACLES		800	
		800	RECEPTACLES	20/1	29	——	——	-x(-	30	20/1	RECEPTACLES			800
600			RECEPTACLES	20/1	31	-x(-	——	——	32	20/1	RECEPTACLES	1200		
	1200		RECEPTACLES	20/1	33	——	-x(-	——	34	20/1	SPARE			
			SPARE	20/1	35	——	——	-x(-	36	20/1	SPARE			
			SPARE	20/1	37	-x(-	——	——	38	20/1	SPARE			
			SPARE	20/1	39	——	-x(-	——	40	20/1	SPARE			
			SPARE	20/1	41	——	——	-x(-	42	20/1	SPARE			
4200	8160	7560	SIDE TOTALS						SIDE TOTALS			5000	3600	4000

PANELBOARD: LD1 | VOLTAGE: 208/120 | BUS RATING: 100A CU | MAIN: MLO | TOTAL CONNECTED VA: 24,968
LOCATION: ELECTRICAL 106 | MFG. AND TYPE: SQUARE D, EATON OR EQUAL | EQUIPMENT GROUND BUSS: YES | ISOL GND BUS: NO | TOTAL A PHASE: 7,992
MOUNTING: SURFACE | ENCLOSURE:NEMA1 | MINIMUM A.I.C. RATING: 10,000 | FED FROM: MDP | TOTAL B PHASE: 6,992 | TOTAL C PHASE: 9,984

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
1000			WASHER	20/1	1	-x(-	——	——	2	20/1	WASHER	1000		
	1000		WASHER	20/1	3	——	-x(-	——	4	20/1	WASHER		1000	
		2496	DRYER	30/2	5	——	——	-x(-	6	30/2	DRYER			2496
2496					7	-x(-	——	——	8			2496		
	2496		DRYER	30/2	9	——	-x(-	——	10	30/2	DRYER		2496	
		2496			11	——	——	-x(-	12					2496
1000			RECEPTACLES	20/1	13	-x(-	——	——	14	20/1	SPARE			
			SPARE	20/1	15	——	-x(-	——	16	20/1	SPARE			
			SPARE	20/1	17	——	——	-x(-	18	20/1	SPARE			
			SPARE	20/1	19	-x(-	——	——	20	20/1	SPARE			
			SPARE	20/1	21	——	-x(-	——	22	20/1	SPARE			
			SPARE	20/1	23	——	——	-x(-	24	20/1	SPARE			
4496	3496	4992	SIDE TOTALS						SIDE TOTALS			3496	3496	4992

PANELBOARD: LD2 | VOLTAGE: 208/120 | BUS RATING: 100A CU | MAIN: MLO | TOTAL CONNECTED VA: 24,568
LOCATION: ELECTRICAL 204 | MFG. AND TYPE: SQUARE D, EATON OR EQUAL | EQUIPMENT GROUND BUSS: YES | ISOL GND BUS: NO | TOTAL A PHASE: 7,592
MOUNTING: SURFACE | ENCLOSURE:NEMA1 | MINIMUM A.I.C. RATING: 10,000 | FED FROM: MDP | TOTAL B PHASE: 6,992 | TOTAL C PHASE: 9,984

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
1000			WASHER	20/1	1	-x(-	——	——	2	20/1	WASHER	1000		
	1000		WASHER	20/1	3	——	-x(-	——	4	20/1	WASHER		1000	
		2496	DRYER	30/2	5	——	——	-x(-	6	30/2	DRYER			2496
2496					7	-x(-	——	——	8			2496		
	2496		DRYER	30/2	9	——	-x(-	——	10					
		2496			11	——	——	-x(-	12	30/2	DRYER			2496
600			RECEPACLES	20/1	13	-x(-	——	——	14	20/1	SPARE			
			SPARE	20/1	15	——	-x(-	——	16	20/1	SPARE			
			SPARE	20/1	17	——	——	-x(-	18	20/1	SPARE			
			SPARE	20/1	19	-x(-	——	——	20	20/1	SPARE			
			SPARE	20/1	21	——	-x(-	——	22	20/1	SPARE			
			SPARE	20/1	23	——	——	-x(-	24	20/1	SPARE			
4096	3496	4992	SIDE TOTALS						SIDE TOTALS			3496	3496	4992

PANELBOARD: LD3 | VOLTAGE: 208/120 | BUS RATING: 100A CU | MAIN: MLO | TOTAL CONNECTED VA: 24,568
LOCATION: ELECTRICAL 304 | MFG. AND TYPE: SQUARE D, EATON OR EQUAL | EQUIPMENT GROUND BUSS: YES | ISOL GND BUS: NO | TOTAL A PHASE: 7,592
MOUNTING: SURFACE | ENCLOSURE:NEMA1 | MINIMUM A.I.C. RATING: 10,000 | FED FROM: MDP | TOTAL B PHASE: 6,992 | TOTAL C PHASE: 9,984

LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	SERVES	T/P	CIR. NO.	A	B	C	CIR. NO.	T/P	SERVES	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C
1000			WASHER	20/1	1	-x(-	——	——	2	20/1	WASHER	1000		
	1000		WASHER	20/1	3	——	-x(-	——	4	20/1	WASHER		1000	
		2496	DRYER	30/2	5	——	——	-x(-	6	30/2	DRYER			2496
2496					7	-x(-	——	——	8			2496		
	2496		DRYER	30/2	9	——	-x(-	——	10	30/2	DRYER		2496	
		2496			11	——	——	-x(-	12					2496
600			RECEPTACLES	20/1	13	-x(-	——	——	14	20/1	SPARE			
			SPARE	20/1	15	——	-x(-	——	16	20/1	SPARE			
			SPARE	20/1	17	——	——	-x(-	18	20/1	SPARE			
			SPARE	20/1	19	-x(-	——	——	20	20/1	SPARE			
			SPARE	20/1	21	——	-x(-	——	22	20/1	SPARE			
			SPARE	20/1	23	——	——	-x(-	24	20/1	SPARE			
4096	3496	4992	SIDE TOTALS						SIDE TOTALS			3496	3496	4992

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 18933
ERIC C. TARVER
12-2024

No.	Revision/Issue	Date	BY

PROJECT TITLE: REPAIR (SUS) AIRMEN DORMITORY BLDG 854
SHEET TITLE: ELECTRICAL SCHEDULES

DRAWN BY: HS, BD	CHECKED BY: GC
QUALITY REVIEWER: HS	PROJECT NUMBER: NKAK 21-1034
DESIGNED BY: GC	SHEET: E7.02
DATE: 29 FEB. 2024	OF 100 SHEETS
SCALE: AS NOTED	

CERTIFICATE OF AUTHORIZATION
ENERGY ENGINEERING CONSULTANTS, INC.
No. 1586
ARKANSAS ENGINEER

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