COASTAL CAROLINA UNIVERSITY

WALL BUILDING ELEVATOR ENHANCEMENTS

119 CHANTICLEER DR W,
CONWAY, SOUTH CAROLINA 29526

State's Project Number: H17-N142-CB

Architect's Project Number: C670.22

CONSTRUCTION DOCUMENTS

14 DECEMBER 2023

LOCATION MAP

INDEX TO DRAWINGS

CODE INFORMATION

PROJECT DESIGNED IN ACCORDANCE WITH:

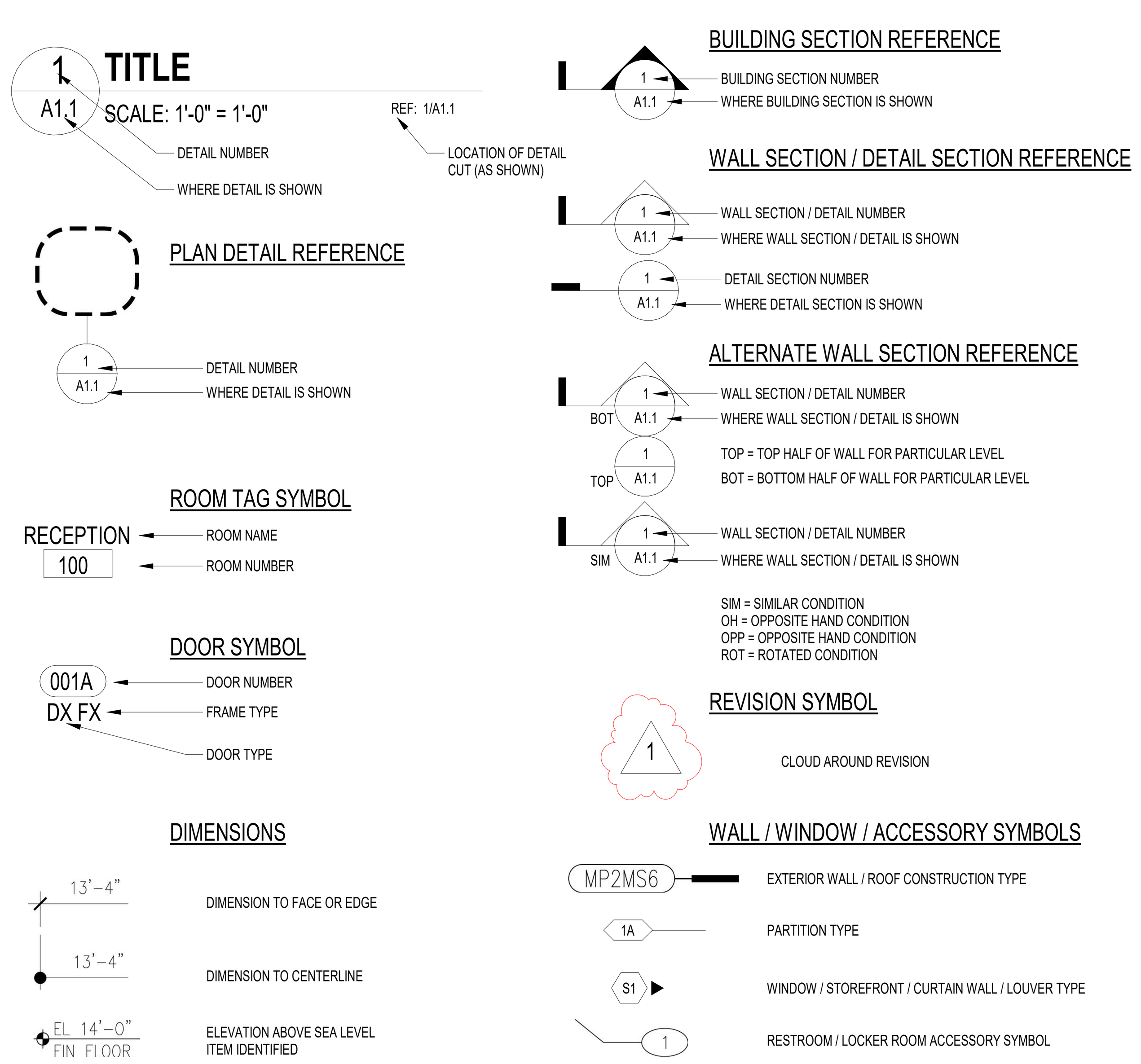
1. INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION
2. INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2021 EDITION
3. INTERNATIONAL FIRE CODE (IFC), 2021 EDITION
4. INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009 EDITION
5. INTERNATIONAL FUEL GAS CODE (IFGC), 2021 EDITION
6. INTERNATIONAL MECHANICAL CODE (IMC), 2021 EDITION
7. INTERNATIONAL PLUMBING CODE (IPC), 2021 EDITION - WITH THE FOLLOWING INSERTIONS:
    1. SECTION 305.4.1, INSERT "18" AND INSERT "18"
    2. SECTION 903.1, INSERT "8"
8. INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE (IPSDC), 2015 EDITION
9. INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC), 2015 EDITION
10. INTERNATIONAL WILDLAND - URBAN INTERFACE CODE (IWUIC), 2015 EDITION
    A. NOTE: THE IWUIC DOES NOT SUPERSEDE EXISTING STATUTORY REQUIREMENTS
11. INTERNATIONAL CODE COUNCIL PERFORMANCE CODE (ICCPC), 2015 EDITION, UPON STATE ENGINEER'S APPROVAL
12. NATIONAL ELECTRICAL CODE (NEC) [NFPA-70], 2017 EDITION
13. NATIONAL ELECTRICAL SAFETY CODE (NESC), IEEE-C2-2017 EDITION
14. AMERICAN NATIONAL STANDARDS INSTITUTE, INC. (ANSI) A117.1 - 2017, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
15. STATE FIRE MARSHAL RULES, REGULATIONS AND POLICIES - LATEST EDITION
16. STATE OF SC TELEPHONE EQUIPMENT ROOM AND COMMUNICATION/DATA SYSTEMS POLICIES AS FORMULATED BY THE DSIT
17. GOVERNOR'S EXECUTIVE ORDER NO. 82-19 (APRIL 1982) - STATE OF SC BUILDING STANDARDS IN FLOODPLAIN AREAS

2023 Edition

TABLE 3E CODE INFORMATION FOR ADDITIONS, ALTERATIONS, OR CHANGE OF OCCUPANCY TO AN EXISTING STRUCTURE

TYPE OF PROJECT: ☒ Alteration (IEBC Chaps. 7, 8 & 9) ☐ Addition (IEBC Chap. 11) ☐ Change of Occupancy (IEBC Chap. 10)		
METHOD OF COMPLIANCE: (Check only one Option and all items that apply under that Option.)	☐ **Option 1: Prescriptive Compliance Method (IEBC Chapter 5)**	
	☒ **Option 2: Work Area Compliance Method (IEBC Chaps. 6-12)** ☐ Alteration Level 1, minor including reroofing (IEBC Chap. 7) ☒ Alteration Level 2, reconfigurations of space (IEBC Chap. 8) ☐ Alteration Level 3, work area exceeds 50% (IEBC Chap. 9) Aggregate area of building: 93,634 SF Work area: 3,135 SF	
	☐ **Option 3: Performance Compliance Method (IEBC Chap. 13)**	
CONSTRUCTION CLASSIFICATION (IBC 602) Type: I-B (assumed)		
Change of Occupancy:	☐ Yes	☒ No
Existing Occupancy Classification(s): B		
New Occupancy Classification(s): B		
Original Building Code and Edition Applicable at time of Construction: SBC 1985		
Existing Sprinkler System?	☐ Yes	☒ No
Existing Fire Alarm System?	☐ Manual	☒ Auto
Seismic Evaluation Required?	☐ Yes	☒ No
Major Facility Project? (See §48-52-810(10)(a))	☐ Yes	☒ No
Historic Building (IEBC Chapter 12):	☐ Yes	☒ No
☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction		

ARCHITECTURAL SYMBOLS



12/15/2023 10:39:52 AM

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL

A/E SEAL

PROJECT TITLE

WALL BUILDING CONFERENCE CENTER RENOVATION

COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA

STATE PROJECT NO. H17-N141-CB

REVISIONS

NO.	NAME	DATE

DRAWN BY: Author

CHECKED BY: Checker

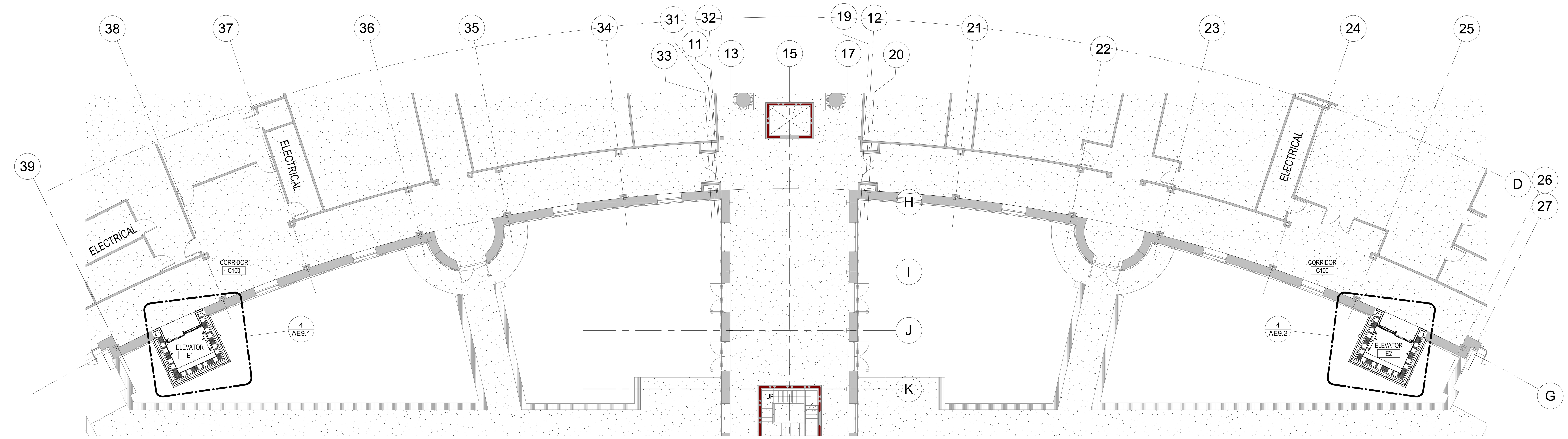
DRAWING TITLE

TITLE SHEET, INDEX TO DRAWINGS & CODE REVIEW INFORMATION

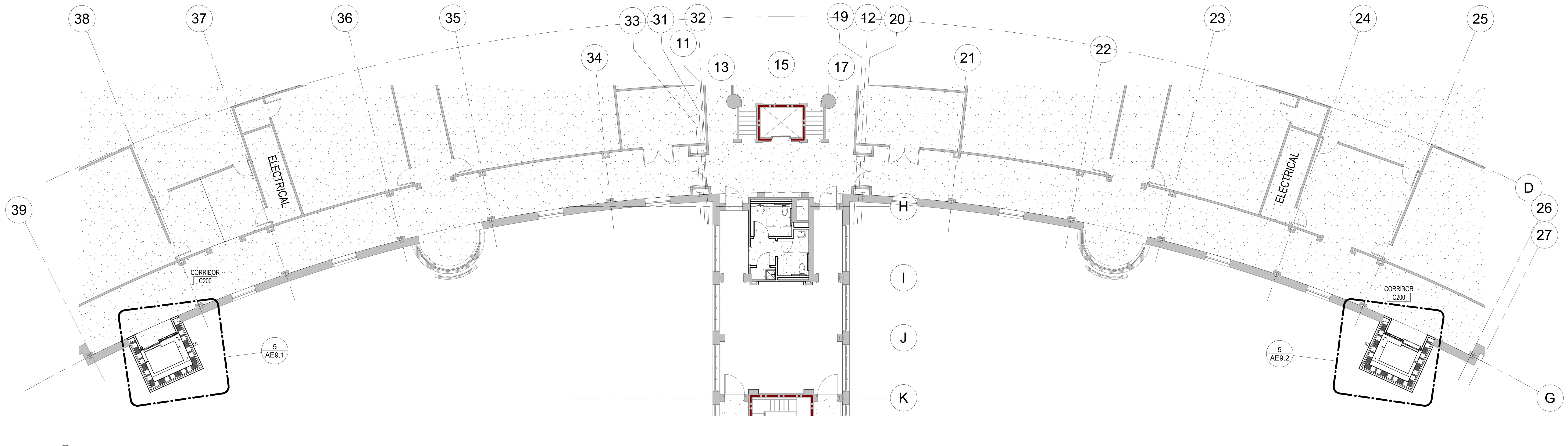
PROJECT NO. C670.22

DATE 12/14/2023

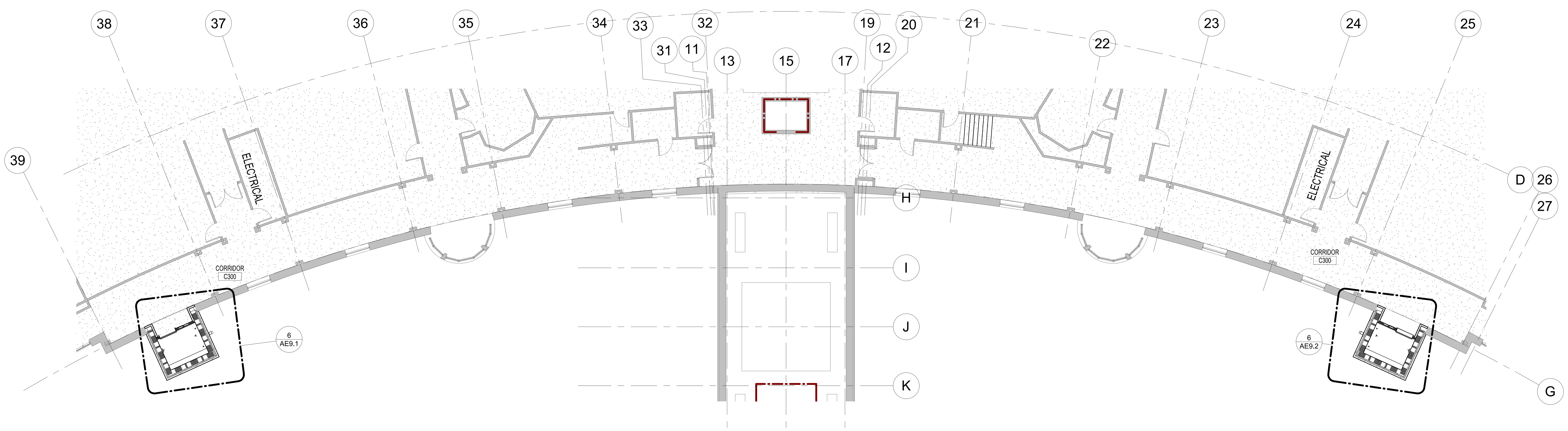
DRAWING NO. **GE1.1**



1 FIRST FLOOR PLAN
AE1.0 3/32" = 1'-0" REFERENCED ON A5.1



2 SECOND FLOOR PLAN
AE1.0 3/32" = 1'-0" REFERENCED ON A5.1



3 THIRD FLOOR PLAN
AE1.0 3/32" = 1'-0" REFERENCED ON A5.1

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
STATE OF SOUTH CAROLINA
NO. 6184
TERRY E. BUCHMANN
COLUMBIA, SC
REGISTERED ARCHITECT

A/E SEAL
STATE OF SOUTH CAROLINA
NO. C03053
GARVIN DESIGN GROUP, INC.
COLUMBIA, SC
REGISTERED ARCHITECTS

PROJECT TITLE
WALL BUILDING CONFERENCE CENTER RENOVATION
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N141-CB

REVISIONS

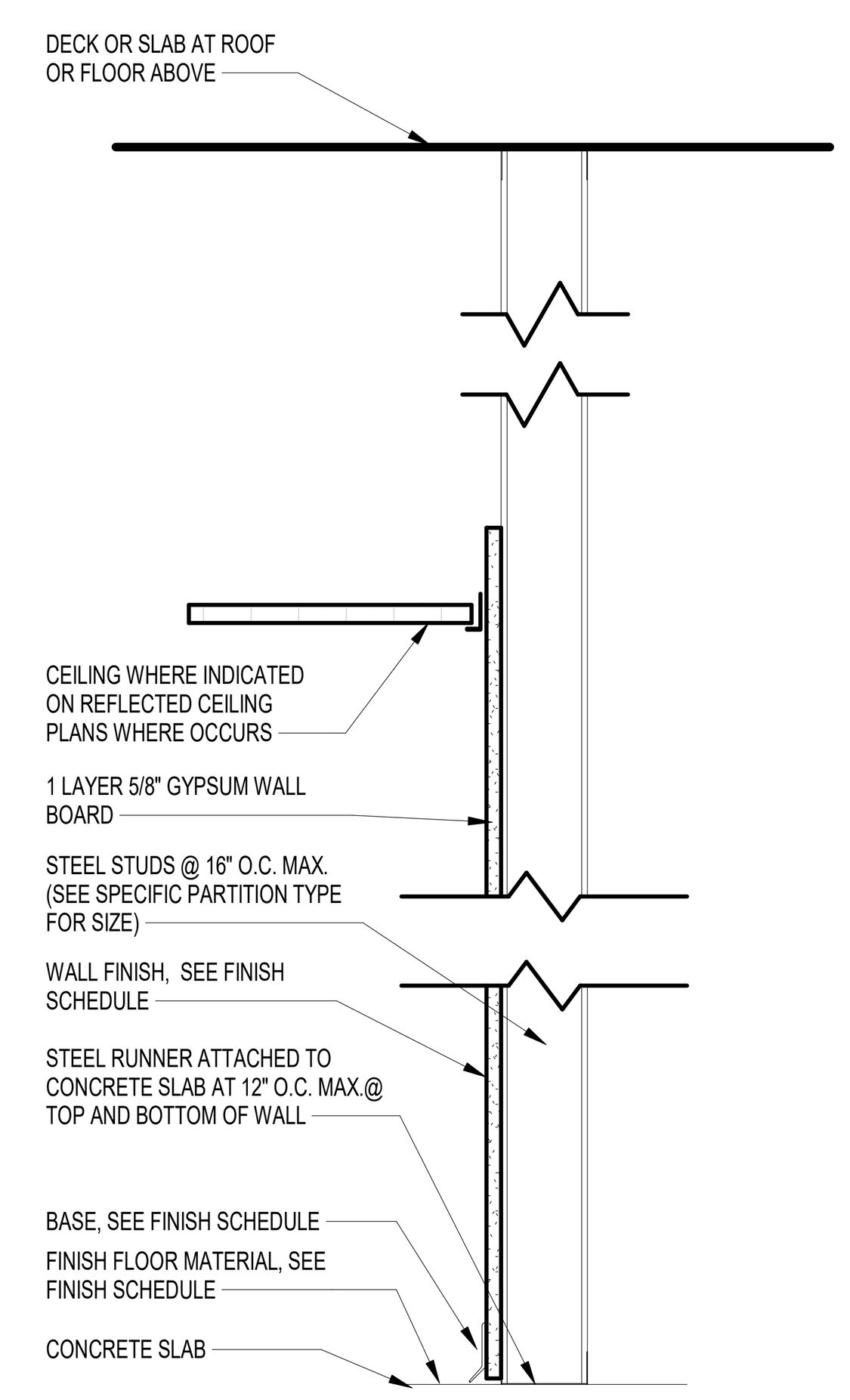
NO.	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

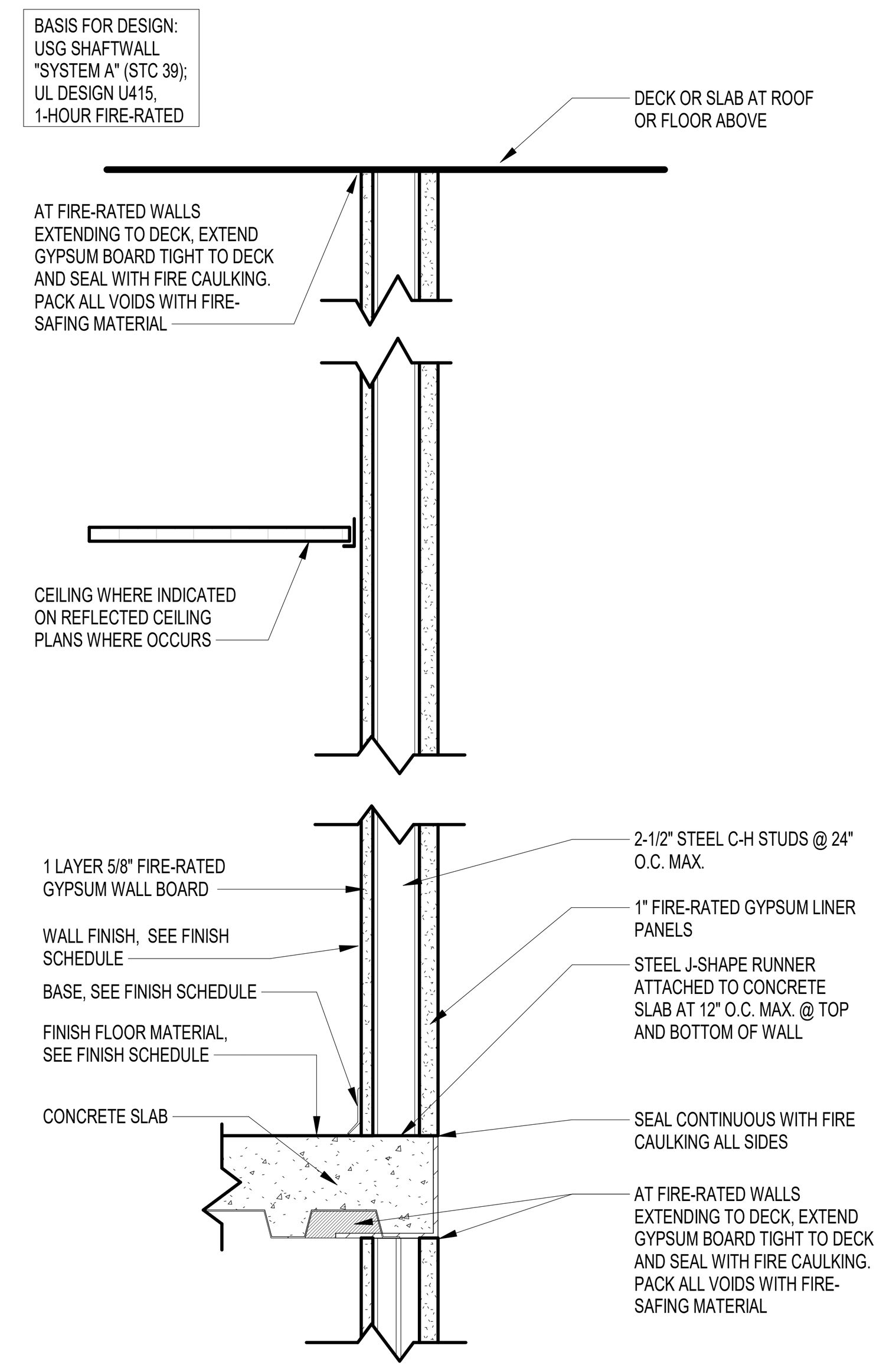
DRAWING TITLE
FLOOR PLANS

PROJECT NO. C670.22
DATE 12/14/2023
DRAWING NO. **AE1.0**

12/15/2023 10:39:34 AM

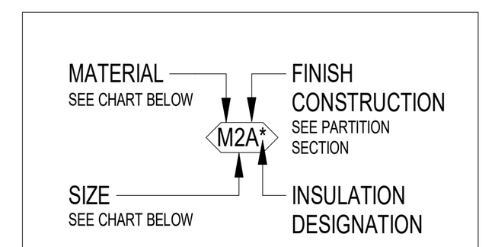


1 AE3.1 M#C - ELEVATOR
1 1/2" = 1'-0" REFERENCED ON:

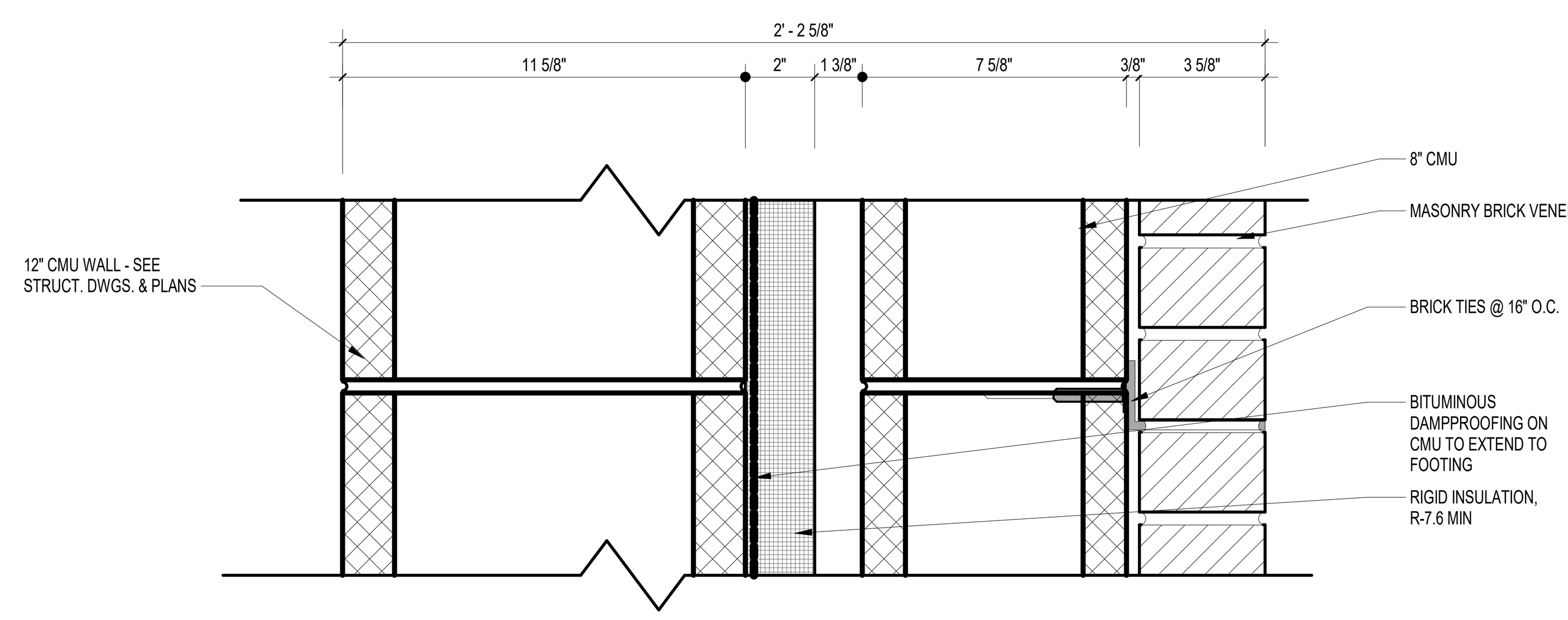


2 AE3.1 S2A
1 1/2" = 1'-0" REFERENCED ON:

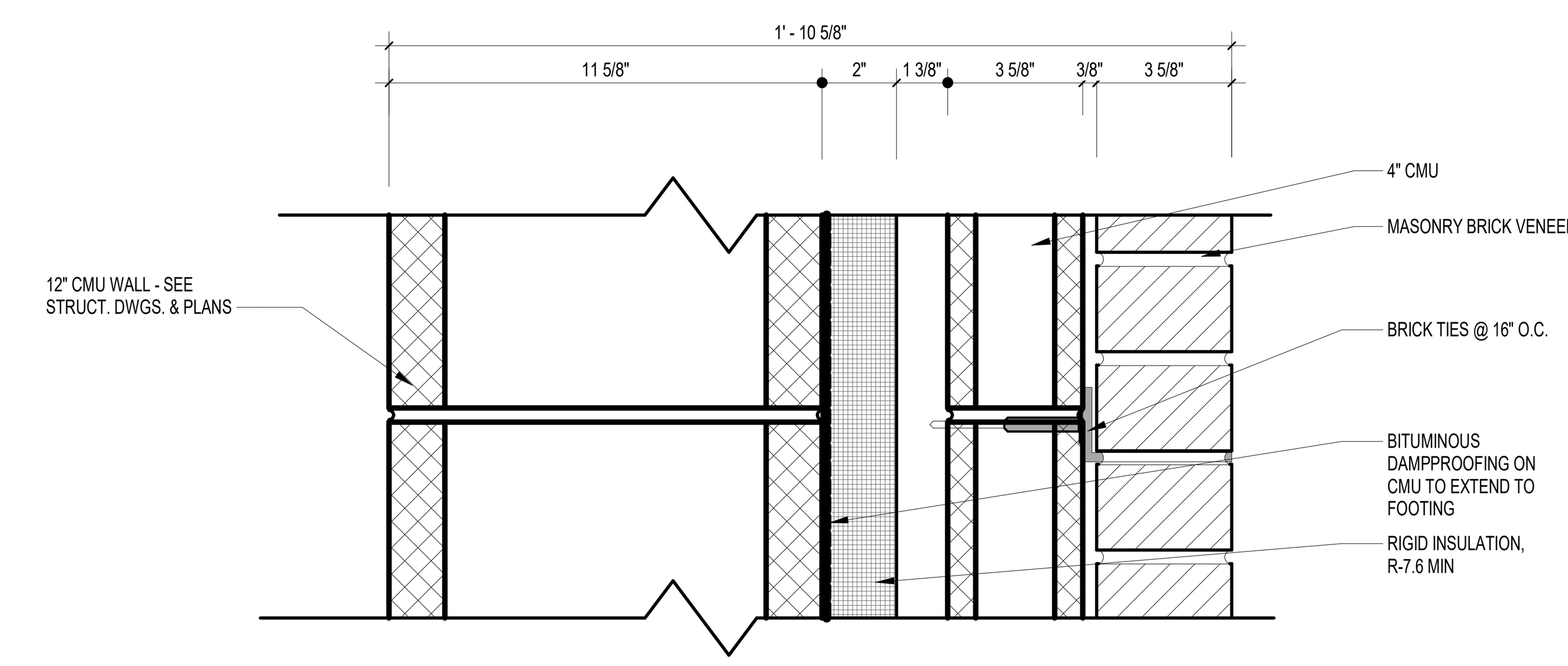
LEGEND - PARTITION TYPES



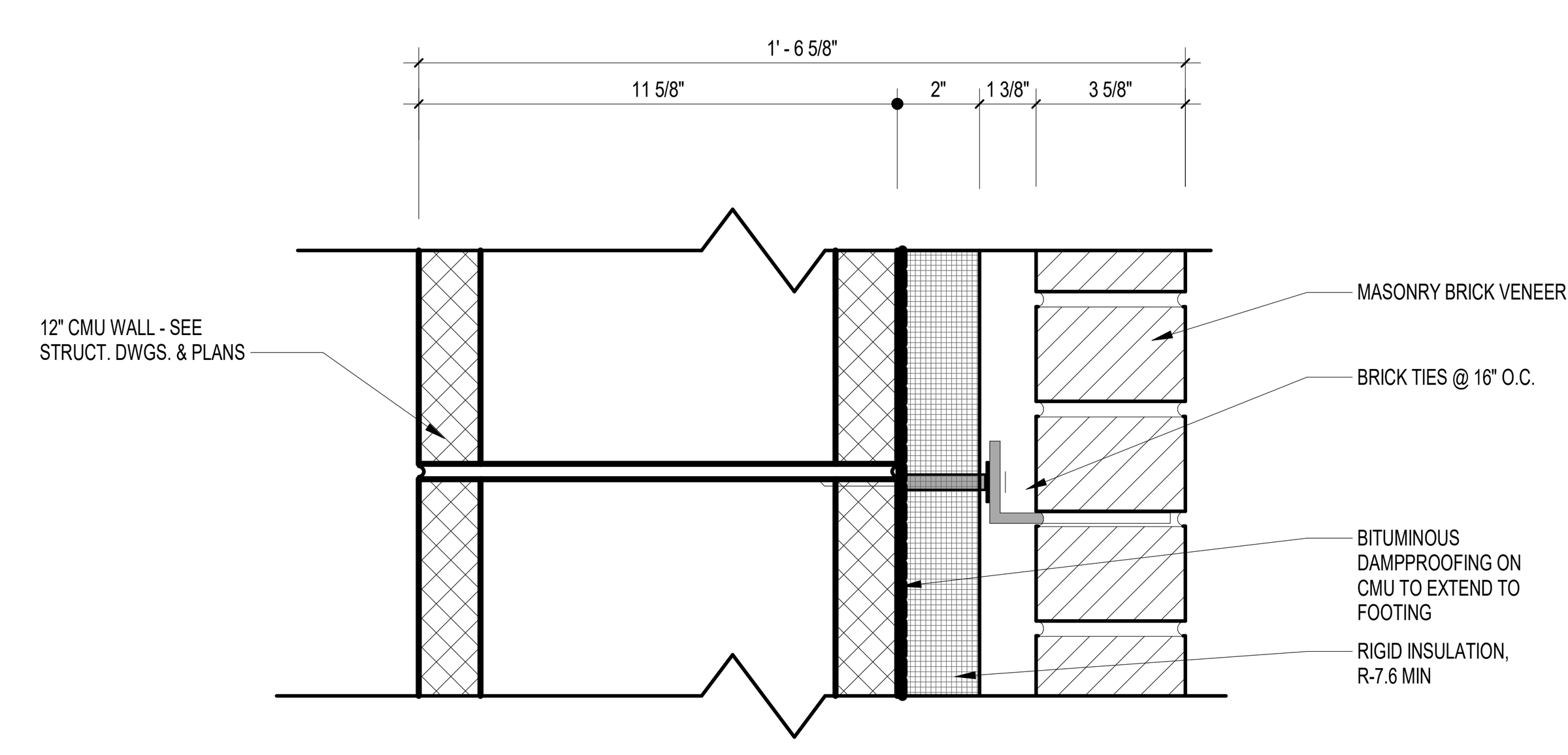
M1	1-1/2" METAL STUD
M2	2-1/2" METAL STUD
M3	3-5/8" METAL STUD
M4	4" METAL STUD
M6	6" METAL STUD
M8	8" METAL STUD
W2	2X2" WOOD STUD
W4	2X4" WOOD STUD
W6	2X6" WOOD STUD
W8	2X8" WOOD STUD
C4	4" CMU (3-5/8" NOM.)
C8	8" CMU (7-5/8" NOM.)
C12	12" CMU (11-5/8" NOM.)
S2	2" C-H STUD (SHAFT WALL)



3 AE3.1 CMU12&8BR - 2'-3"
3" = 1'-0" REFERENCED ON:



4 AE3.1 CMU12&4BR - 1'-10"
3" = 1'-0" REFERENCED ON:



5 AE3.1 CMU12BR - 1'-7"
3" = 1'-0" REFERENCED ON:

12/15/2023 10:39:35 AM

GARVIN DESIGN GROUP
803.212.1032 p / 803.212.1074 f
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202

A/E SEAL
A/E SEAL

PROJECT TITLE
WALL BUILDING CONFERENCE CENTER RENOVATION
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N141-CB

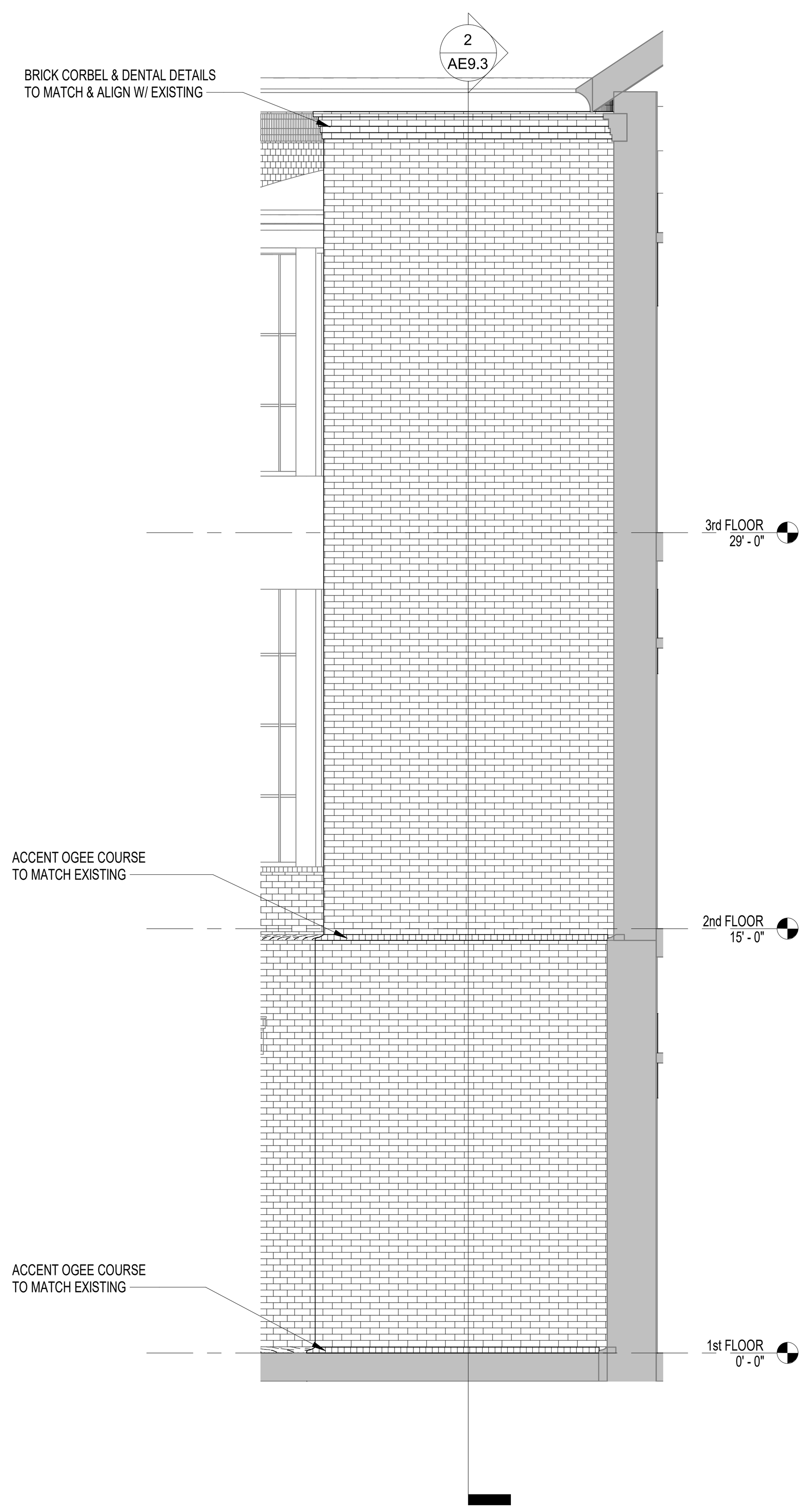
REVISIONS

NO.	NAME	DATE

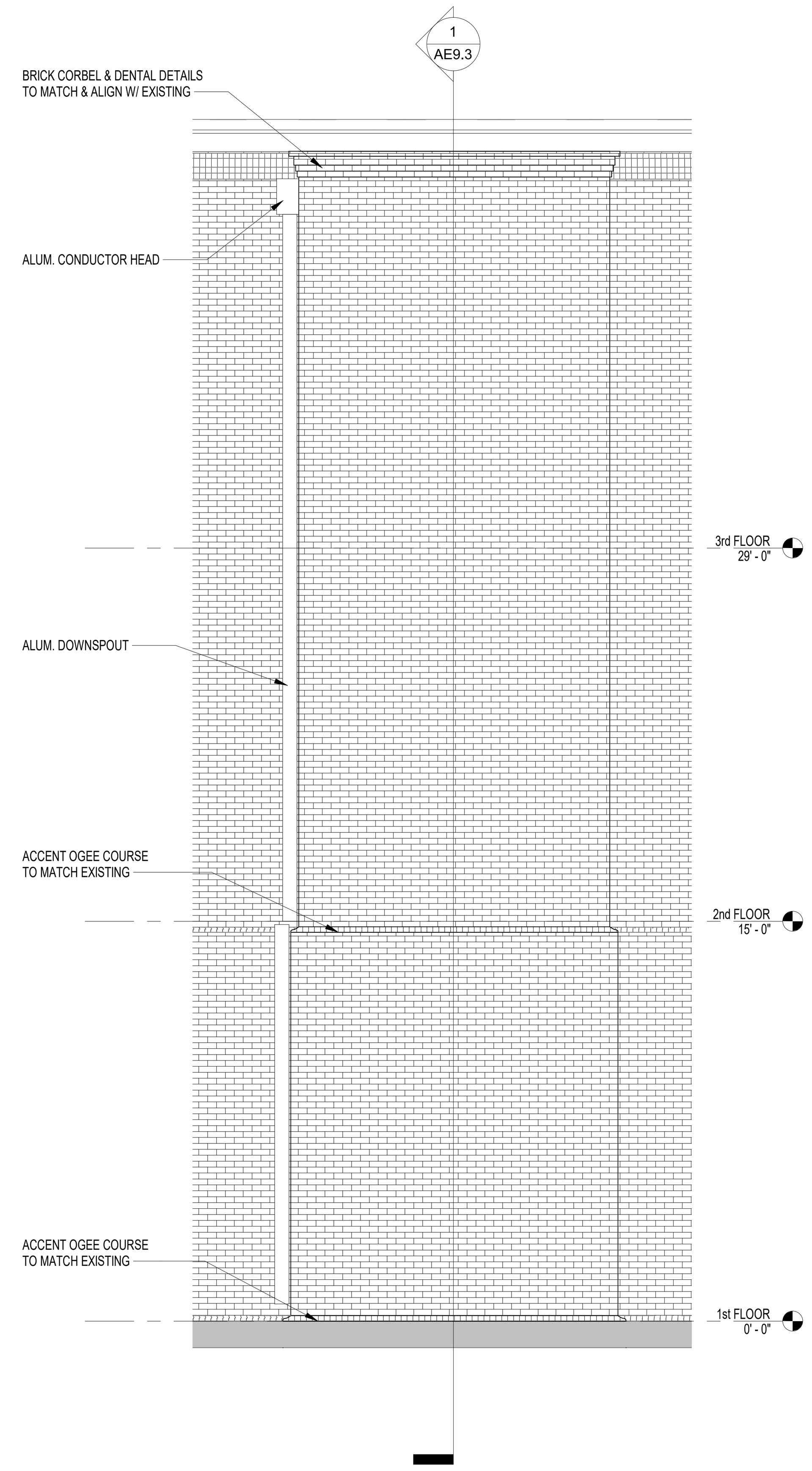
DRAWN BY: Author
CHECKED BY: Checker

DRAWING TITLE
INTERIOR & EXTERIOR PARTITION TYPES

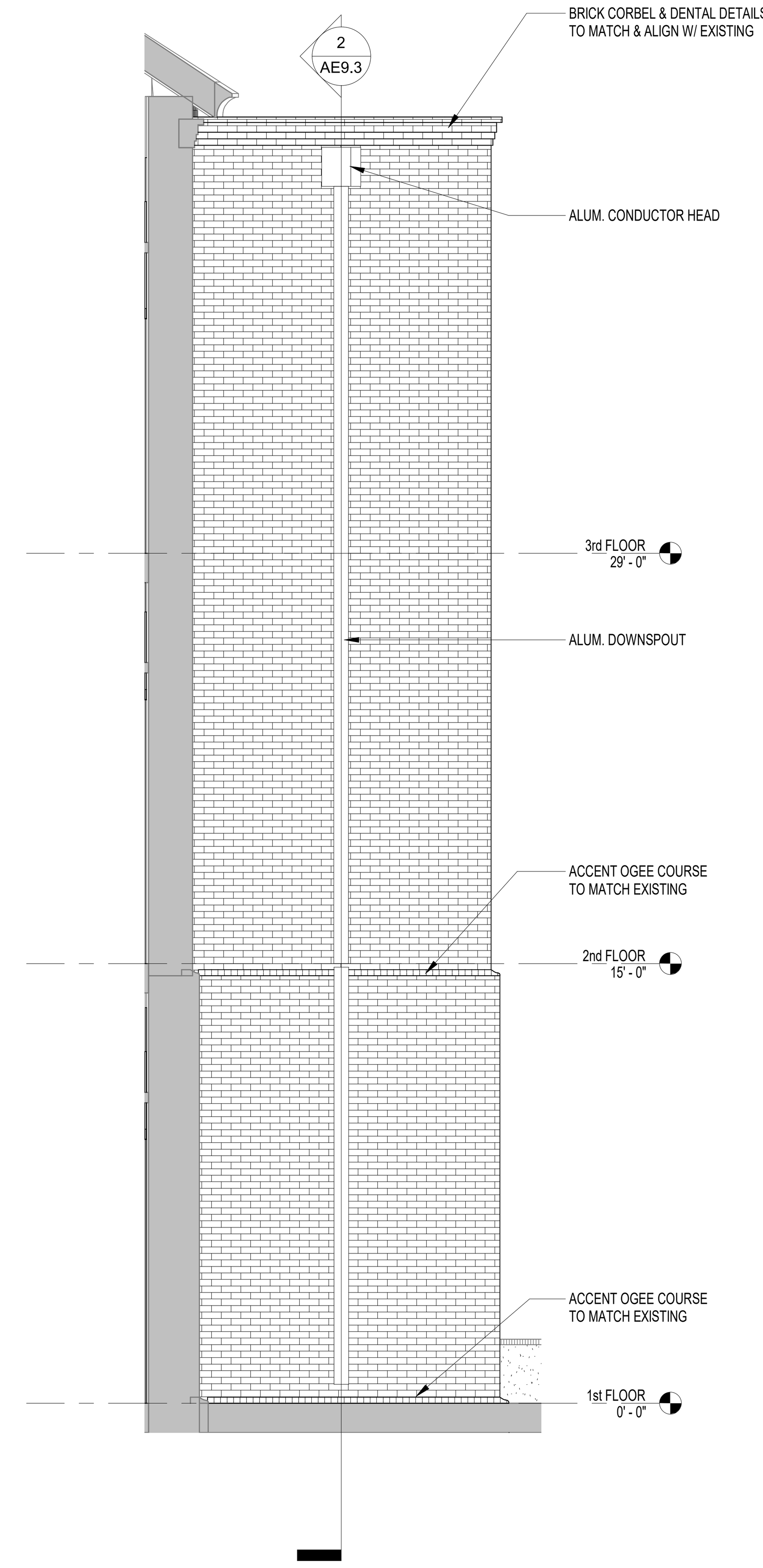
PROJECT NO. C670.22
DATE 12/14/2023
DRAWING NO. AE3.1



1 ELEVATOR - EAST
AE4.1 1/4" = 1'-0" REFERENCED ON AE9.1



2 ELEVATOR - SOUTH
AE4.1 1/4" = 1'-0" REFERENCED ON AE9.1



3 ELEVATOR - WEST
AE4.1 1/4" = 1'-0" REFERENCED ON AE9.1

GARVIN DESIGN GROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
STATE OF SOUTH CAROLINA
NO. 8384
TERRY E. BACHMANN
COLUMBIA, SC
REGISTERED ARCHITECT

A/E SEAL
STATE OF SOUTH CAROLINA
NO. C03053
GARVIN DESIGN GROUP, INC.
COLUMBIA, SC
REGISTERED ARCHITECTS

PROJECT TITLE
WALL BUILDING CONFERENCE CENTER RENOVATION
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N141-CB

REVISIONS

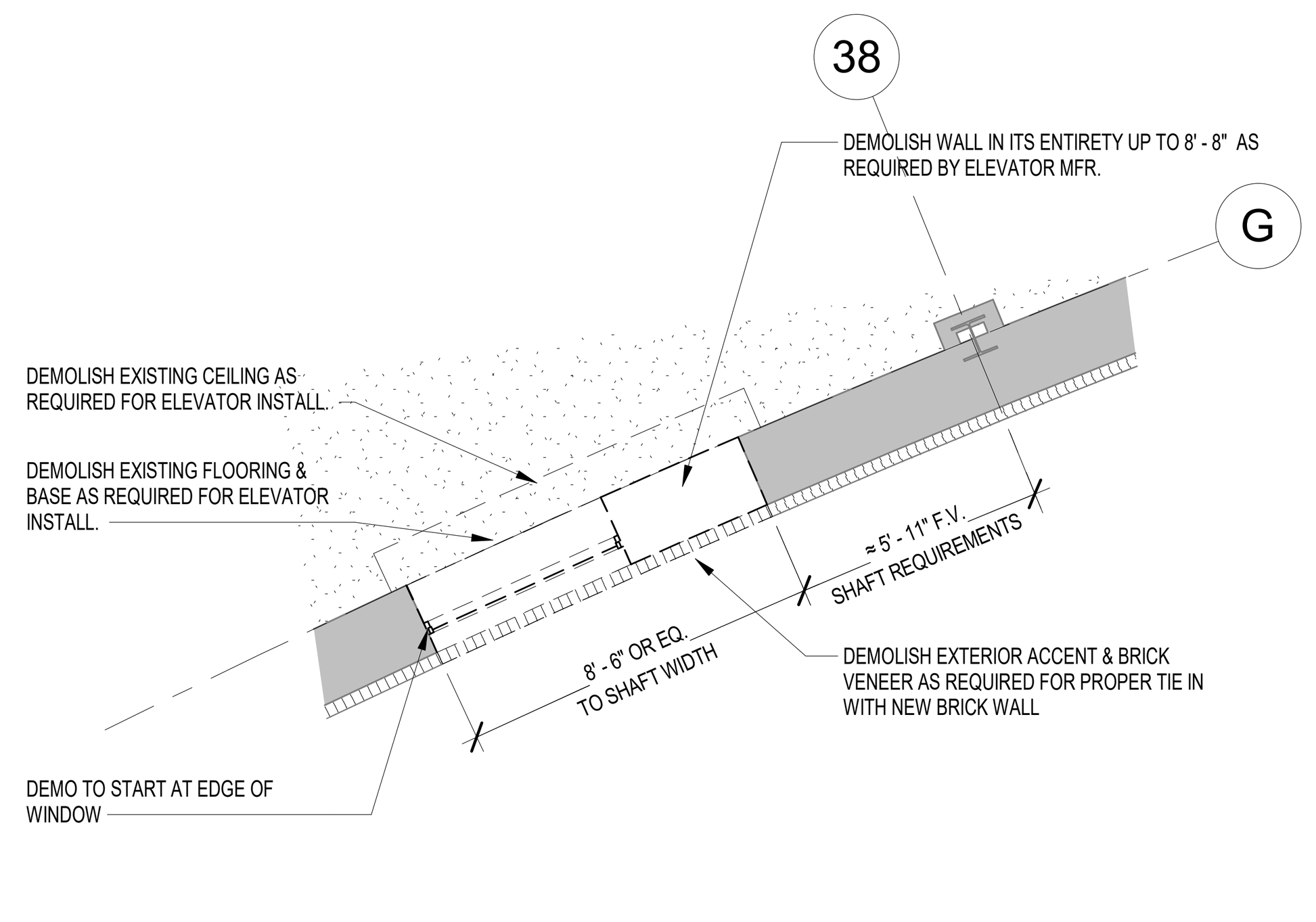
NO.	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

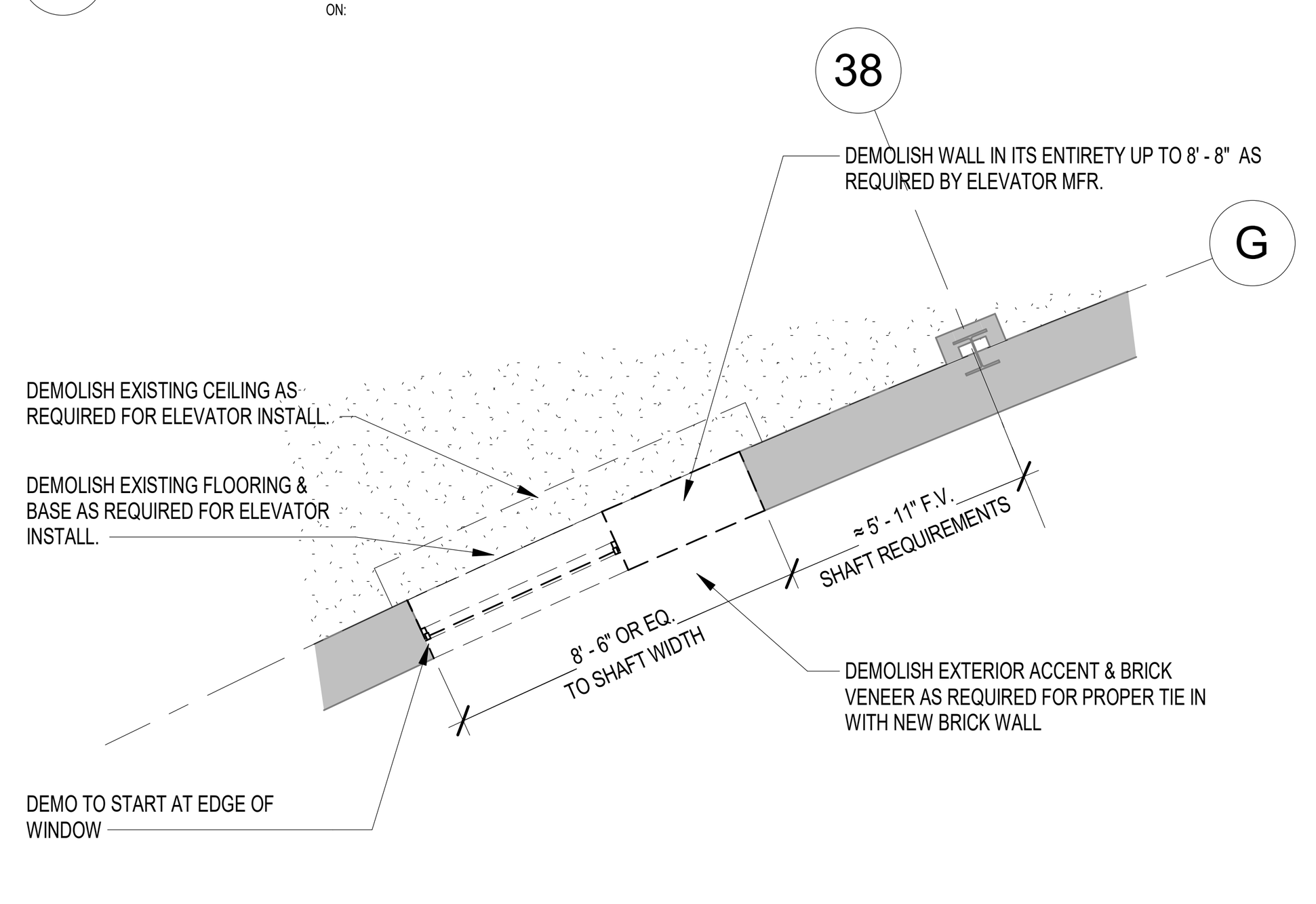
DRAWING TITLE
ELEVATIONS

PROJECT NO. C670.22
DATE 12/14/2023
DRAWING NO.
AE4.1

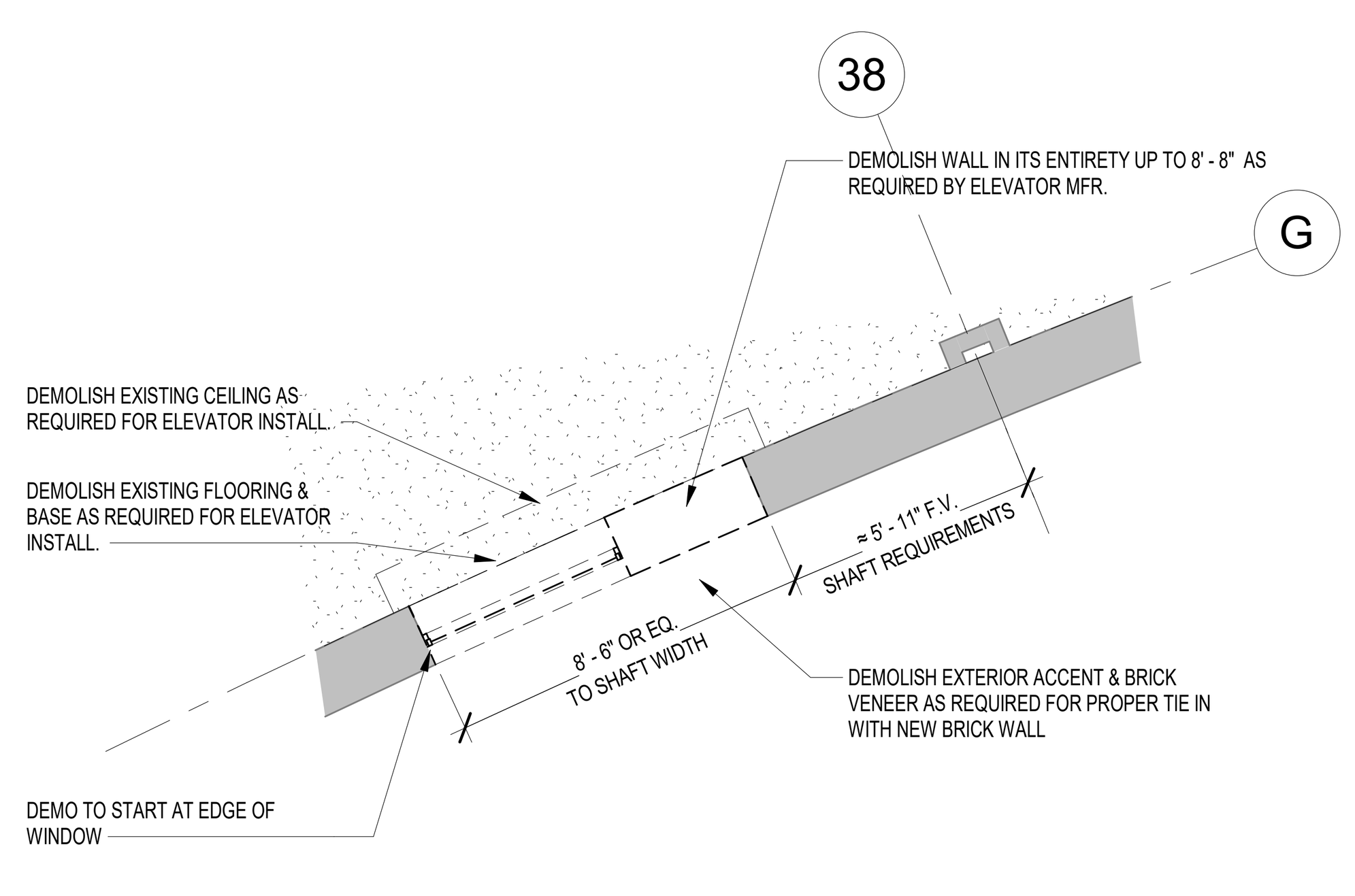
12/15/2023 10:39:37 AM



1 AE9.1 ELEVATOR ONE ENLARGED DEMO PLAN - FIRST FLOOR
1/4" = 1'-0" REFERENCED ON



2 AE9.1 ELEVATOR ONE ENLARGED DEMO PLAN - SECOND FLOOR
1/4" = 1'-0" REFERENCED ON



3 AE9.1 ELEVATOR ONE ENLARGED DEMO PLAN - THIRD FLOOR
1/4" = 1'-0" REFERENCED ON

GENERAL NOTES - DEMOLITION PLAN

A. GENERAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER & ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO START OF DEMOLITION.

B. CONFORM TO ALL APPLICABLE CODES FOR DEMOLITION OF ITEMS TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING ALL DISPOSAL OR RECYCLING PROCESSES FOR DEMOLISHED MATERIALS/EQUIPMENT REQUIRED BY CODE.

C. PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. CONTRACTORS SHALL BEAR ALL COSTS FOR REPAIRING, REPLACING, REFINISHING ITEMS OF EXISTING ITEMS DAMAGED.

D. PROVIDE, ERECT AND MAINTAIN TEMPORARY PARTITIONS, BARRIERS, GUARD RAILS AND OTHER SAFETY ITEMS AS REQUIRED BY REGULATORY AGENCIES, AS REQUIRED TO PROTECT OCCUPANTS OR AS NECESSARY TO PROTECT MATERIALS, SURFACES AND FINISHES.

E. DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED. COORDINATE DEMOLITION OF ROOFS, WALLS, FLOORS, SLABS, EQUIPMENT, ETC. WITH OTHER DISCIPLINES.

F. WHEN CUTTING INTO EXISTING WALLS, SLAB AND ROOF, CONTRACTOR SHALL TAKE EXTREME CARE AND CAUTION TO AVOID DAMAGING THE STRUCTURAL INTEGRITY OF THESE AREAS. CONTRACTOR SHALL DOCUMENT ALL WALL, ROOF CUTS AND SLAB CUTS WHERE REINFORCING MEMBERS ARE CUT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, RESTORING, AND MAINTAINING STRUCTURAL PERFORMANCE WHERE THE STRUCTURAL SYSTEM HAS BEEN COMPROMISED.

G. CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON DRAWINGS) THAT ARE TO REMAIN PRIOR TO DEMOLITION. CONTRACTOR SHALL NOT REQUEST ADDITIONAL CHARGES FOR SUCH UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION). WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.

H. WHERE SURFACE MOUNTED ITEMS ARE REMOVED FROM WALLS OR SLABS; (I.E., SIGNAGE, RACEWAYS, EQUIPMENT, FIXTURES, & ETC) - PATCH/REPAIR SURFACES AS REQUIRED TO MATCH EXISTING ADJACENT FINISHES.

I. ITEMS OR MATERIALS NOT INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED ARE TO REMAIN THE OWNER'S PROPERTY. DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE WITH FURTHER DISPOSAL AT THE CONTRACTOR'S OPTION.

J. ALL KNOWN HAZARDOUS MATERIALS WITHIN THE BUILDING WILL BE IDENTIFIED IN A REPORT AND MADE AVAILABLE TO THE CONTRACTOR. CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE ANY REQUIRED ABATEMENT PROCEDURES PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK.

K. DEMOLITION PLANS INDICATE MATERIALS & ELEMENTS OF DEMOLITION WITH DASHED LINES. NOTES USED ARE TYPICAL BY SHEET.

LEGEND - DEMOLITION PLAN

EXISTING WALL TO BE DEMOLISHED

EXSITING WALL TO REMAIN

EXISTING DOOR TO BE DEMOLISHED

EXISTING DOOR TO BE REMAIN

EXISTING WINDOW TO BE DEMOLISHED

EXISTING WINDOW TO REMAIN

GENERAL NOTES - FLOOR PLAN

1. SEE SHEET G1.2 FOR MINIMUM REQUIRED ADA/ANSI A117.1 MANEUVERING CLEARANCES AND ACCESSIBILTY REQUIREMENTS. ACCESSIBLE DOOR MANEUVERING CLEARANCES APPLY TO ALL DOORS, U.N.O.. ALL ACCESSIBLE ROUTES MUST MAINTAIN COMPLIANCE WITH ADA/ANSI FLOOR SURFACES & CHANGES IN LEVEL LIMITS SHOWN ON A3.0.

2. SEE CODE REVIEW SHEET(S) FOR REQUIRED UL ASSEMBLIES OF ALL BUILDING SYSTEMS. ALL PENETRATIONS THROUGH RATED WALL AND FLOOR ASSEMBLIES MUST COMPLY WITH UL DESIGN FOR PENETRATIONS.

3. DIMENSIONS INDICATED ON THESE DRAWINGS ARE TO FACE OF CMU WALL, FACE OF EXTERIOR VENEER, FACE OF STUD, OR CENTERLINE OF COLUMN UNLESS OTHERWISE INDICATED. COORDINATE ALL DIMENSIONS WITH STRUCTURAL DIMENSION PLANS, ENLARGED PLANS, SECTION AND DETAIL DRAWINGS, STRUCTURAL DRAWINGS AND VERIFY EXACT LOCATIONS. COORDINATE ALL FLOOR SLAB PENETRATIONS WITH SYSTEM DRAWINGS (S'S, M'S, P'S, FP'S, AND E'S) AND ACTUAL PRODUCTS TO BE INSTALLED AND VERIFY LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.

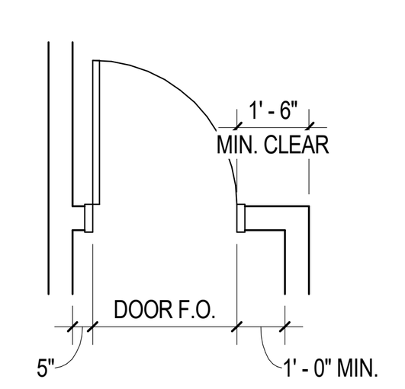
4. SEE FINISH SCHEDULES AND PLANS FOR FLOOR PATTERNS AND FLOOR FINISH REFERENCES.

5. EXTERIOR MASONRY OPENINGS TO RECEIVE STOREFRONT, CURTAINWALL, DOORS, WINDOWS, LOUVERS, OR OTHER ELEMENTS SHALL BE FIELD VERIFIED PRIOR TO MANUFACTURE OF SYSTEM.

6. INTERIOR METAL STUD OPENINGS TO RECEIVE STOREFRONT, DOORS, GRILLES, LOUVERS, OR OTHER ELEMENTS SHALL BE FIELD VERIFIED PRIOR TO MANUFACTURE OF SYSTEM. LOCATION OF ALL RECESSED CABINETS AND EQUIPMENT WALL PENETRATIONS MUST BE VERIFIED PRIOR TO INSTALLATION OF CMU WALLS TO ENSURE INDICATED LOCATION AND EVEN COURSING. ANY CONFLICTS WITH INDICATED DIMENSIONS OR LOCATIONS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.

7. CONTACT OWNER AND ARCHITECT UPON DISCOVERY OF ANY SUSPECTED ASBESTOS-CONTAINING MATERIALS OR OTHER SUSPECTED HAZARDOUS MATERIALS NOT SHOWN TO BE REMOVED WITHIN THE PROJECT SCOPE.

9. DIMENSIONS FROM DOOR JAMB FRAME OPENING TO CLOSEST WALL FINISH IS 5", U.N.O. SEE DIAGRAM BELOW



LEGEND - FLOOR PLAN

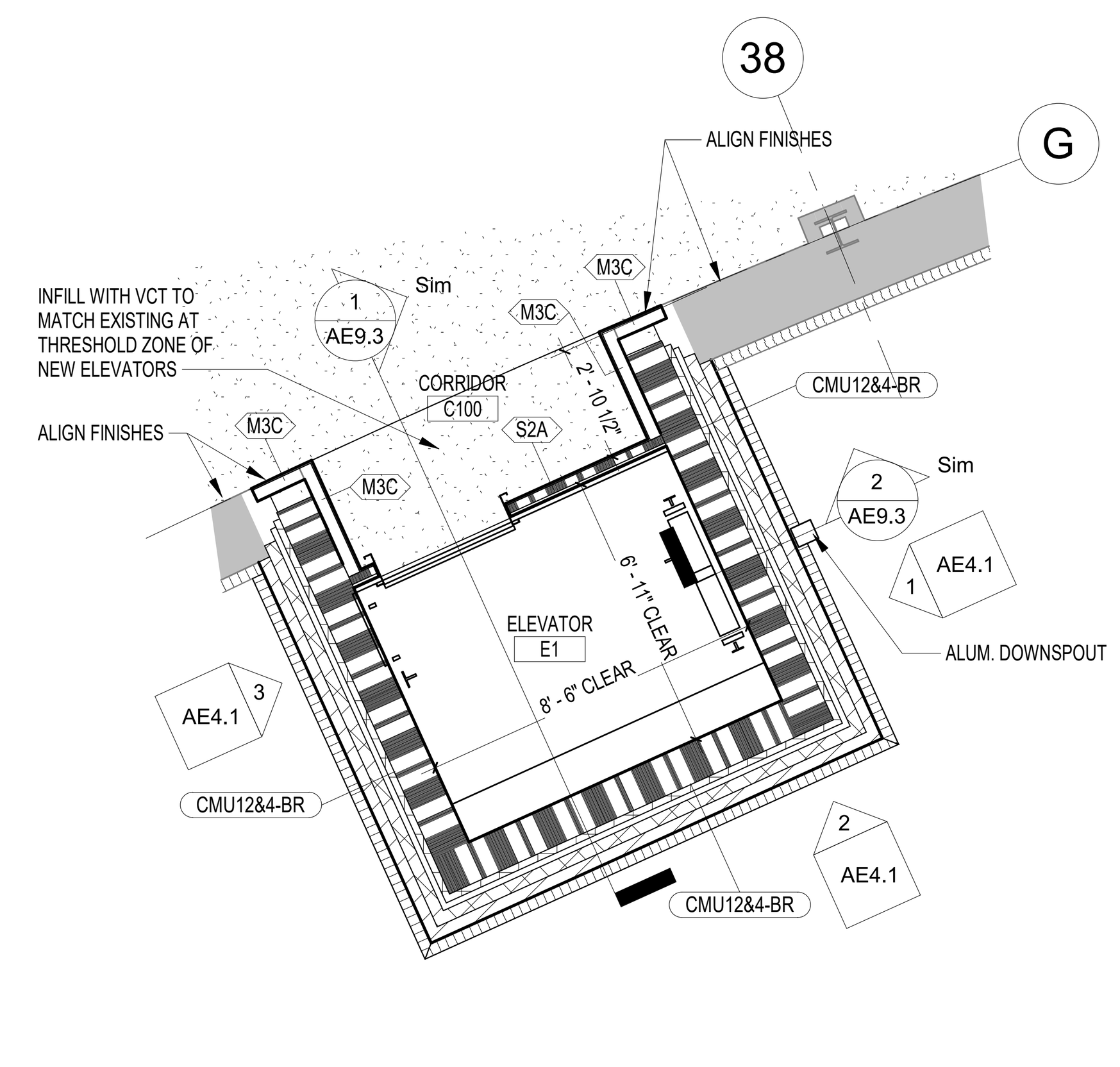
ONE-HOUR FIRE-RATED WALL ASSEMBLY

TWO-HOUR FIRE-RATED WALL ASSEMBLY

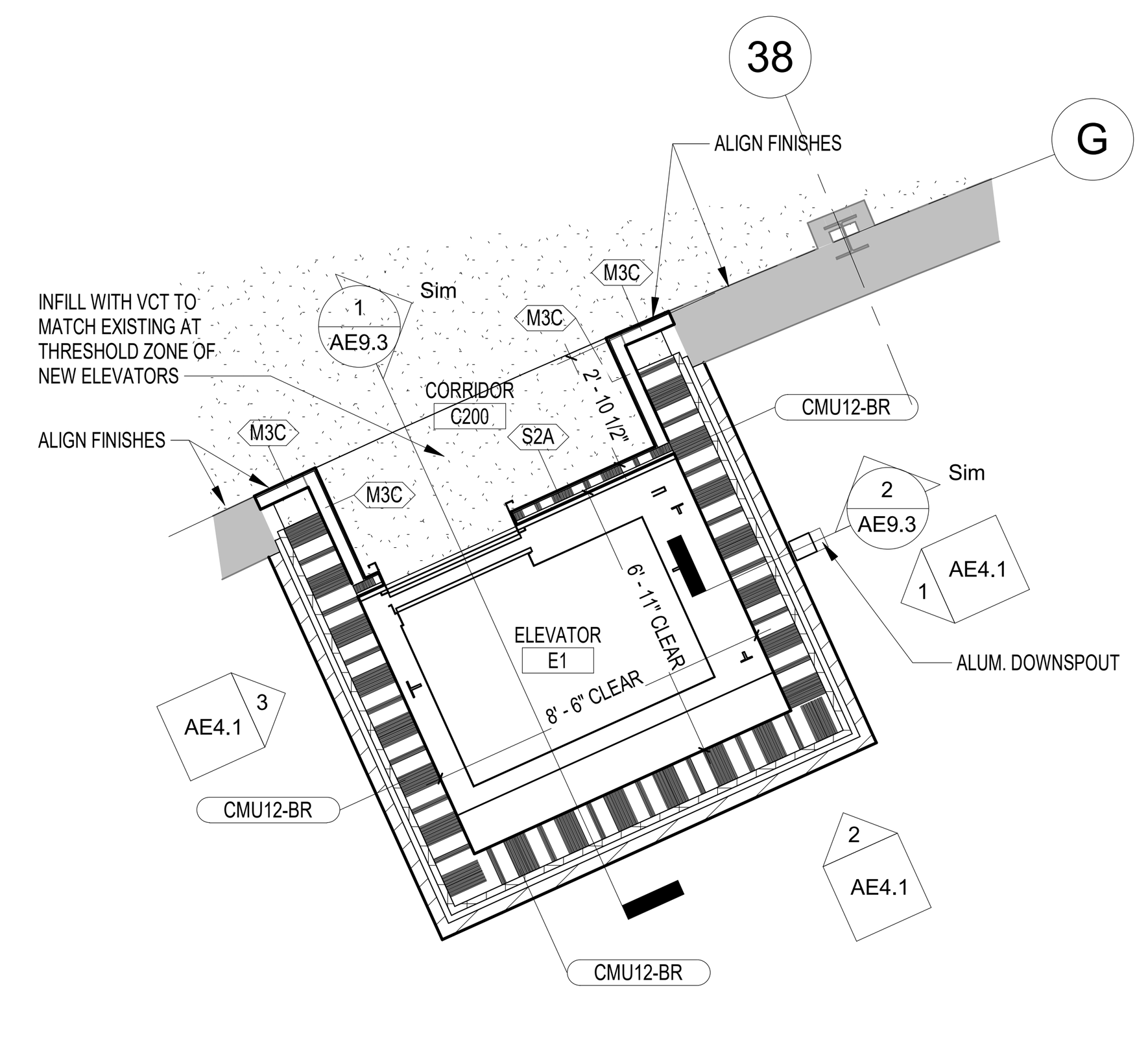
FOUR-HOUR FIRE-RATED WALL ASSEMBLY

HALF-HOUR FIRE-RATED WALL ASSEMBLY

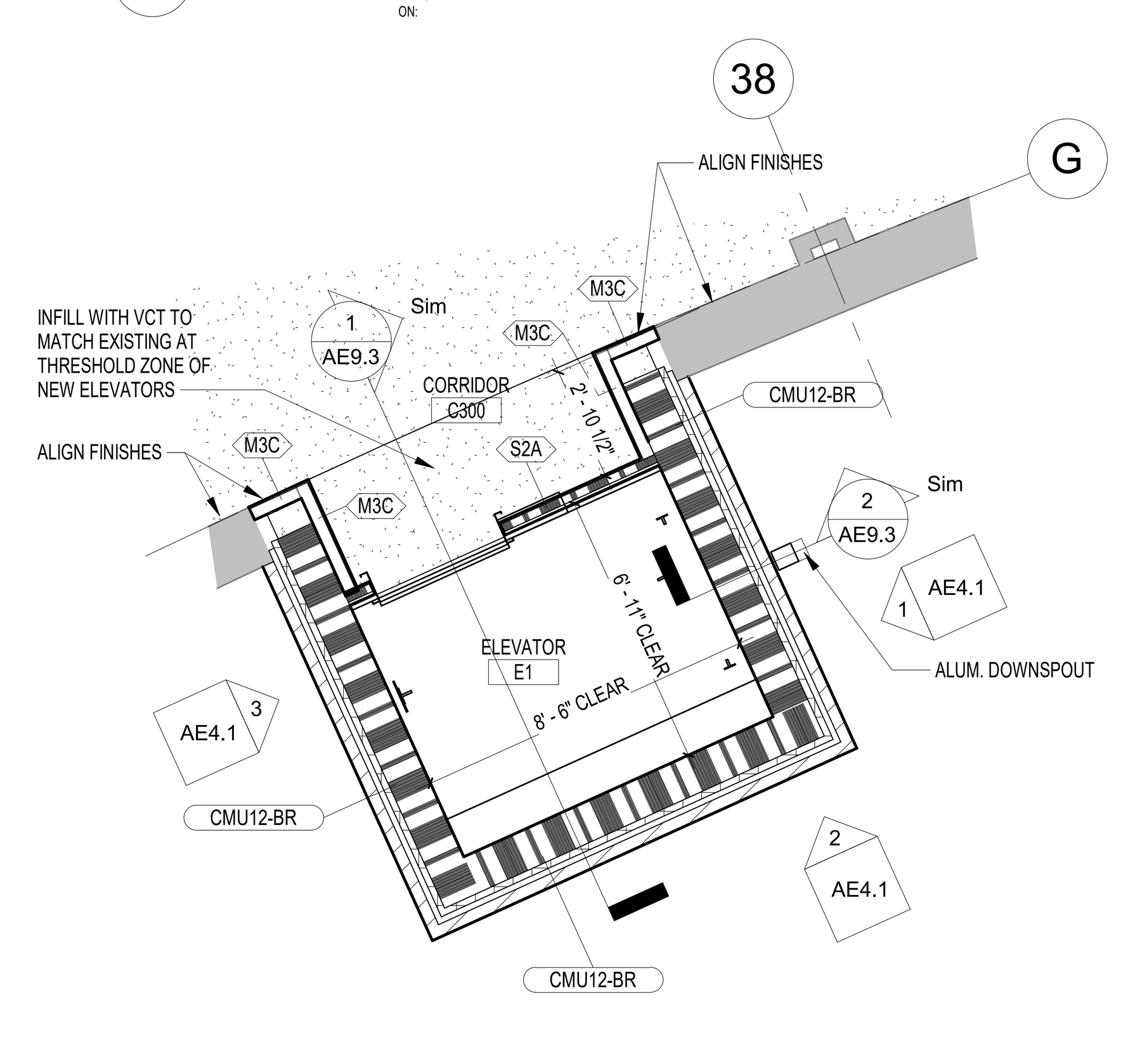
NOTE: SEE PARTITION TYPES FOR UL SYSTEM DESIGN NO'S.



4 AE9.1 ELEVATOR ONE ENLARGED PLAN - FIRST FLOOR
1/4" = 1'-0" REFERENCED ON AE1.0



5 AE9.1 ELEVATOR ONE ENLARGED PLAN - SECOND FLOOR
1/4" = 1'-0" REFERENCED ON AE1.0



6 AE9.1 ELEVATOR ONE ENLARGED PLAN - THIRD FLOOR
1/4" = 1'-0" REFERENCED ON AE1.0

GENERAL NOTES - REFLECTED CEILING PLAN

1. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY AND SPECIFIC LIGHT FIXTURE DESIGNATIONS AND FOR FULL EXTENT OF ELECTRICAL CEILING AND WALL MOUNTED DEVICES.

2. ALL SUSPENDED ACOUSTICAL GRIDS ARE TO BE CENTERED IN CEILING/ROOM AS SHOWN, UNLESS NOTED OTHERWISE.

3. CEILING MOUNTED EQUIPMENT, DEVICES, FIXTURES & GRILLES MUST BE COORDINATED ON REFLECTED CEILING PLANS. CEILING MOUNTED SPRINKLERS TO BE LOCATED IN CENTER OF CEILING TILE IN APC CEILINGS AND ALIGN WITH DOWNLIGHTS IN GYPSUM CEILINGS AND SOFFITS.

4. SEE FP DRAWINGS FOR FIRE PROTECTION SYSTEM LAYOUT. COORDINATE ROUTING OF PIPING W/ ARCHITECTURAL DWGS AND DETAILS AS WELL AS ALL OTHER SYSTEM DRAWINGS (S's, M's, P's, & E'S). SUBMIT LAYOUT/COORDINATION DRAWING FOR REVIEW & APPROVAL PRIOR TO INSTALLATION.

5. PAINT ALL EXPOSED STRUCTURE/CEILING AREAS, INCLUDING ROOF DECK, STEEL STRUCTURE, DUCTWORK, PLUMBING LINES, FIRE SUPPRESSION LINES, ELEC. CONDUITS & BOXES AND OTHER NON-FINISHED ITEMS, EXCEPT IN MECHANICAL ROOMS, ELECTRICAL ROOM, ELEVATOR MACHINE ROOMS, AND TEL/ DATA/COMM ROOMS, UNLESS NOTED OTHERWISE ON RCPS, FINISH SCHEDULES AND INTERIOR ELEVATIONS.

6. ACCESS PANELS BY GENERAL CONTRACTOR. QUANTITY OF ACCESS PANELS SHOWN ON ARCHITECTURAL DRAWINGS NOT INTENDED TO BE ALL INCLUSIVE; SEE MECHANICAL DRAWINGS, PLUMBING DRAWINGS, ELECTRICAL DRAWINGS, AND FIRE PROTECTION SHOP DRAWINGS FOR ADDITIONAL REQUIRED ACCESS PANELS NOT SHOWN. COORDINATE EXACT LOCATION OF ACCESS PANELS WITH ARCHITECT. BRING ALL MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WHICH REQUIRE ACCESS TO THE NEAREST ACCESSIBLE CEILING OR ACCESS PANEL LOCATION SHOWN. BRING THE NEED FOR ADDITIONAL ACCESS PANELS TO THE ARCHITECT'S ATTENTION AS SOON AS POSSILE AND BEFORE PROCEEDING.

7. PAINT ALL EXPOSED STEEL LINTELS, ANGLES AND PLATES, AND BEAMS UNLESS NOTED OTHERWISE.

LEGEND - REFLECTED CEILING PLAN

SUPPLY & RETURN MECHANICAL DIFFUSERS - SEE MECH. DWGS.

LINEAR SLOT DIFFUSER - SEE MECH. DWGS.

LIGHT FIXTURES - SEE ELEC. DWGS.

RECESSED DOWNLIGHT - SEE ELEC. DWGS.

WALL MOUNTED LIGHT FIXTURES - SEE ELEC. DWGS.

STRIP LIGHT FIXTURE - SEE ELEC. DWGS.

PENDANT LIGHT - SEE ELEC. DWGS.

EXIT LIGHTS - SEE ELEC. DWGS. AND LIFE SAFETY PLANS FOR LOCATIONS

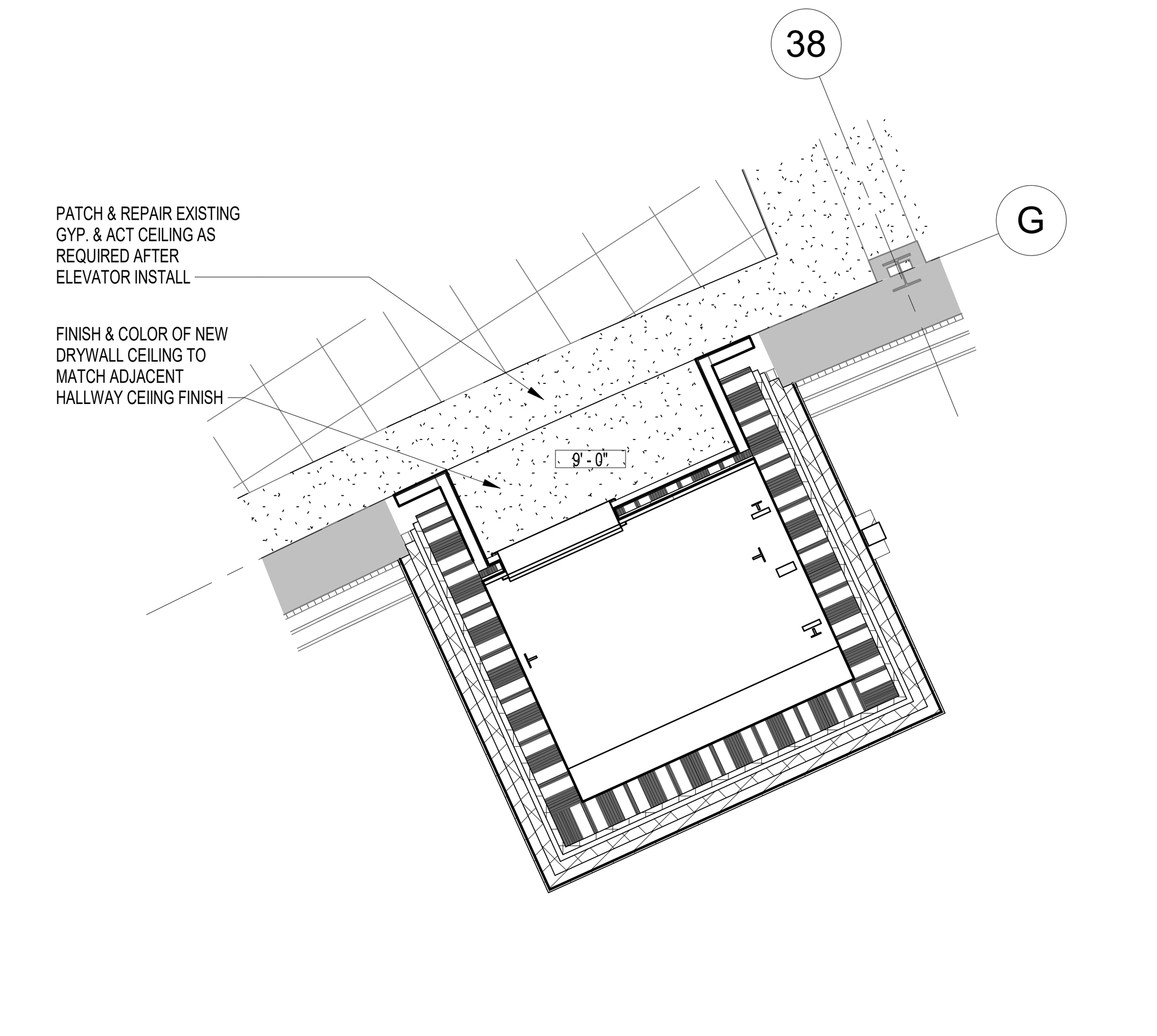
C.J. CEILIING SYSTEM CONTROL JOINT

(A) BUILDING EXPANSION JOINT TYPE

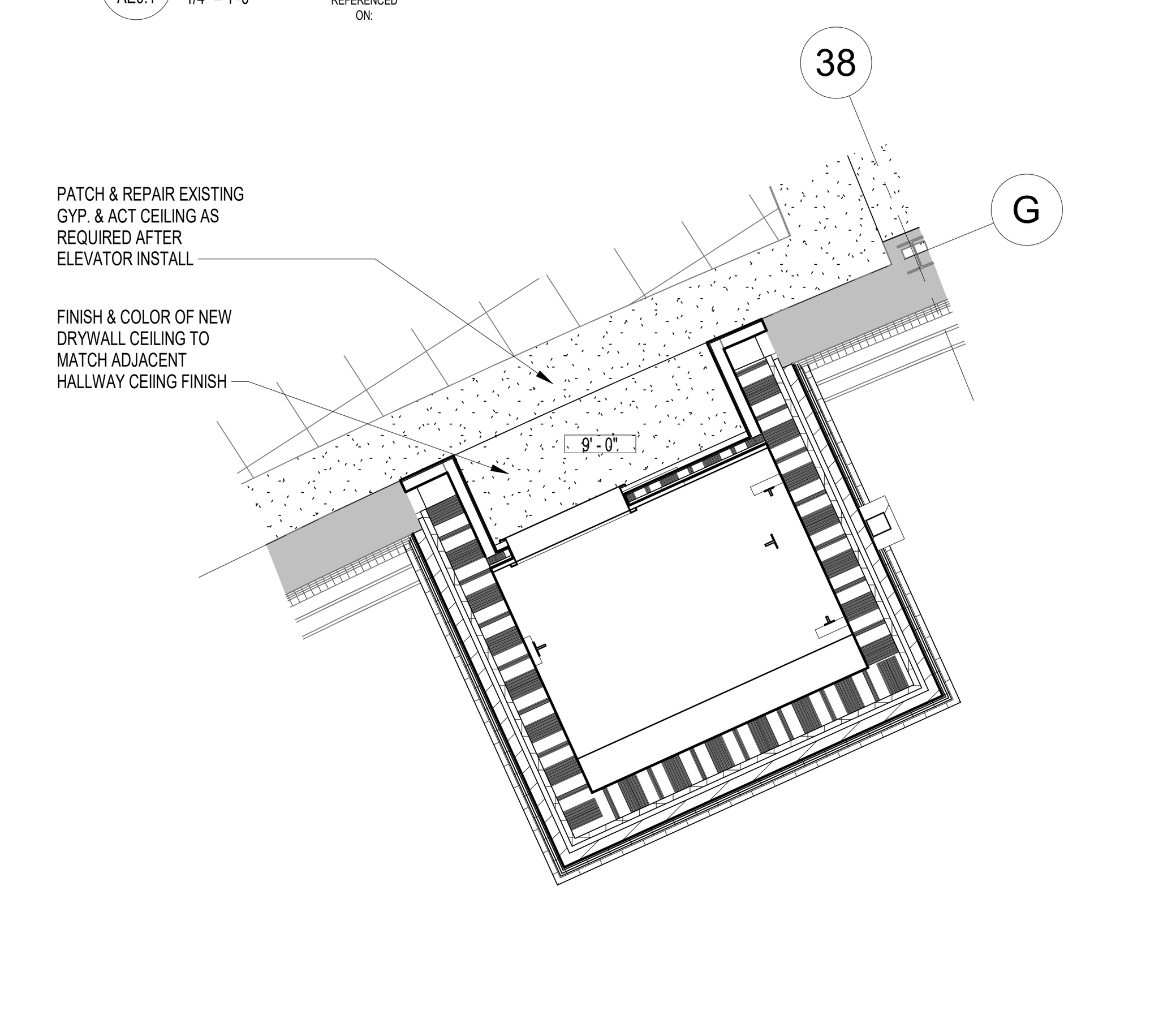
GYPSUM BOARD CEILING

ACOUSTICAL PANEL CEILING - APC -1

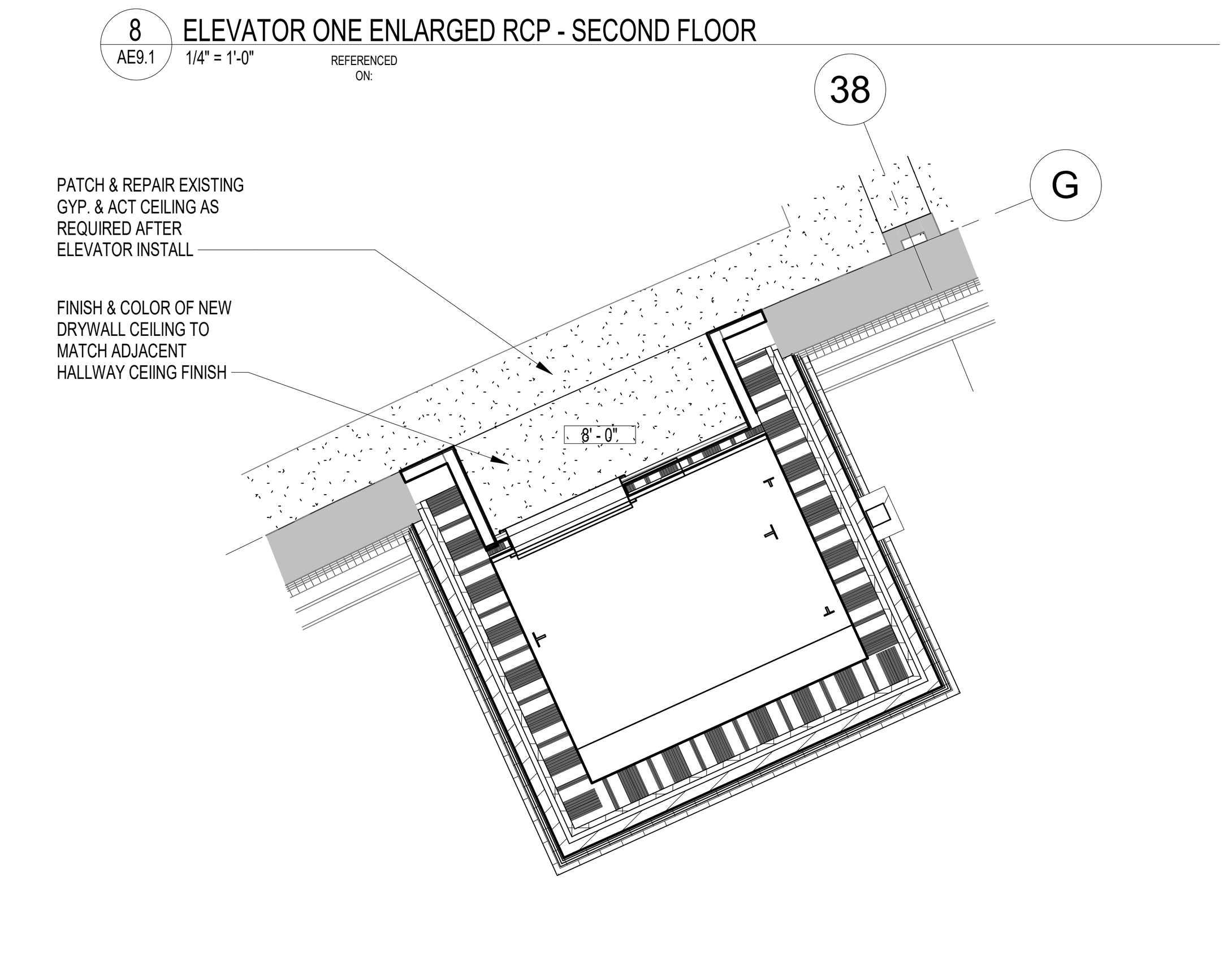
12' - 8" SHOWS CEILING HEIGHTS RELATIVE TO MAIN 0'-0" FINISHED FLOOR ELEVATION



7 AE9.1 ELEVATOR ONE ENLARGED RCP - FIRST FLOOR
1/4" = 1'-0" REFERENCED ON



8 AE9.1 ELEVATOR ONE ENLARGED RCP - SECOND FLOOR
1/4" = 1'-0" REFERENCED ON



9 AE9.1 ELEVATOR ONE ENLARGED RCP - THIRD FLOOR
1/4" = 1'-0" REFERENCED ON

SCHEDULE INTERIOR FINISHES ELEVATOR

ABBREVIATION	DESCRIPTION	BASIS OF DESIGN
BASE & ACCESSORIES		
WDB	WOOD BASE	MATCH EXISTING
FLOOR FINISHES		
VCT-1	VINYL COMPOSITION TILE - CORRIDOR	TARKETT VCT II: COLOR: SOLID BLACK
CEILINGS		
GB/P-2	GYPSUM WALL BOARD - PAINTED	SEE P-2 ABOVE
PAINT/COATINGS		
P-1	PAINT--GENERAL WALL COLOR	LOW-SHEEN, EGGSHELL, TO MATCH SURROUNDING WALLS
P-2	PAINT-CEILINGS	FLAT--TO MATCH EXISTING PAINTED CEILING
P-3	PAINT-TRIM	SEMI-GLOSS, COLOR TO MATCH EXISTING TRIM

GENERAL NOTES - INTERIOR FINISHES ELEVATOR

A. WHERE SPECIFIC PRODUCTS ARE INDICATED, ITEM DESIGNATION INCORPORATES QUALITY AND AESTHETIC APPEARANCE FOR 'BASIS OF DESIGN.' SEE SPECIFICATIONS FOR EQUAL MANUFACTURERS PER PRODUCT TYPE INDICATED. DEPENDING ON LOCATION OF ITEM, ALTERNATES SHALL MATCH IN COLOR/TEXTURE, AS WELL AS PERFORMANCE CRITERIA, PER ARCHITECT'S APPROVAL.

B. ALL PAINT COLOR SELECTIONS SHALL MATCH EXISITNG CONDITIONS. FIELD VERIFY WITH ARCHITECT IN LIGHTED CONDITIONS PRIOR TO FINAL INSTALLATION.

C. REFERENCE REFLECTED CEILING PLANS FOR EXTENT/LOCATION OF CEILING FINISH DESIGNATIONS AND HEIGHTS. DESIGN INTENT TO REPRODUCE EXISTING CEILING CONDITIONS AFTER RENOVATION SO SAVE AND PROTECT CEILING TILES AS NECESSARY FOR REUSE.

D. ELEVATOR TO RECEIVE PLASTIC LAMINATE PANELS. ARCHITECT TO SELECT FROM MANUFACTURER'S STANDARDS.

FINISH SCHEDULE ELEVATOR

ROOM NO.	ROOM NAME	BASE	FLOOR	WALL FINISH NORTH	EAST	SOUTH	WEST	CEILING	Comments
C100	CORRIDOR	EXIST WB	VCT-1, EXISTING VCT	--	--	MATCH EXISTING	--	TOUCH UP TO MATCH EXISTING	ELEVATOR
C200	CORRIDOR	EXIST WB	VCT-1, EXISTING VCT	--	--	MATCH EXISTING	--	TOUCH UP TO MATCH EXISTING	ELEVATOR
C300	CORRIDOR	EXIST WB	VCT-1, EXISTING VCT	--	--	MATCH EXISTING	--	TOUCH UP TO MATCH EXISTING	ELEVATOR
E1	ELEVATOR	--	VCT-1	--	--	--	--		ELEVATOR
E2	ELEVATOR	--	VCT-1	--	--	--	--		ELEVATOR

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
STATE OF SOUTH CAROLINA NO. 6184 TERRY E. BOCHMANN COLUMBIA, SC REGISTERED ARCHITECT

A/E SEAL
STATE OF SOUTH CAROLINA NO. C03053 GARVIN DESIGN GROUP, INC. COLUMBIA, SC REGISTERED ARCHITECTS

PROJECT TITLE
WALL BUILDING CONFERENCE CENTER RENOVATION
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N141-CB

REVISIONS

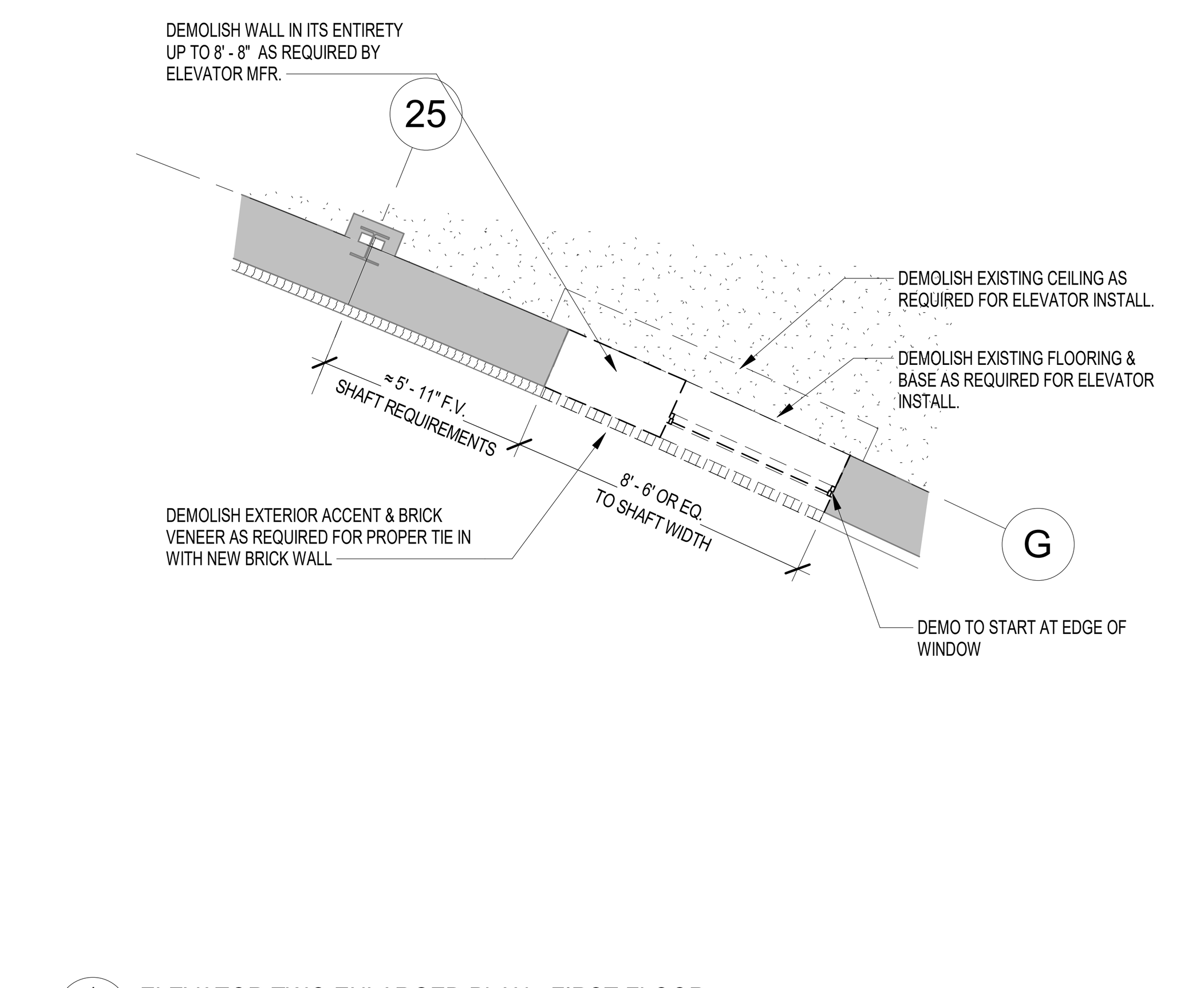
NO.	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

DRAWING TITLE
VERTICAL CIRCULATION

PROJECT NO. C670.22
DATE 12/14/2023
DRAWING NO. **AE9.1**

12/15/2023 10:39:42 AM



1 AE9.2 ELEVATOR TWO ENLARGED PLAN - FIRST FLOOR
1/4" = 1'-0" REFERENCED ON:

GENERAL NOTES - DEMOLITION PLAN

A. GENERAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER & ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO START OF DEMOLITION.

B. CONFORM TO ALL APPLICABLE CODES FOR DEMOLITION OF ITEMS TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING ALL DISPOSAL OR RECYCLING PROCESSES FOR DEMOLISHED MATERIALS/EQUIPMENT REQUIRED BY CODE.

C. PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. CONTRACTORS SHALL BEAR ALL COSTS FOR REPAIRING, REPLACING, REFINISHING ITEMS OF EXISTING ITEMS DAMAGED.

D. PROVIDE, ERECT AND MAINTAIN TEMPORARY PARTITIONS, BARRIERS, GUARD RAILS AND OTHER SAFETY ITEMS AS REQUIRED BY REGULATORY AGENCIES, AS REQUIRED TO PROTECT OCCUPANTS OR AS NECESSARY TO PROTECT MATERIALS, SURFACES AND FINISHES.

E. DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED. COORDINATE DEMOLITION OF ROOFS, WALLS, FLOORS, SLABS, EQUIPMENT, ETC. WITH OTHER DISCIPLINES.

F. WHEN CUTTING INTO EXISTING WALLS, SLAB AND ROOF, CONTRACTOR SHALL TAKE EXTREME CARE AND CAUTION TO AVOID DAMAGING THE STRUCTURAL INTEGRITY OF THESE AREAS. CONTRACTOR SHALL DOCUMENT ALL WALL, ROOF CUTS AND SLAB CUTS WHERE REINFORCING MEMBERS ARE CUT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, RESTORING, AND MAINTAINING STRUCTURAL PERFORMANCE WHERE THE STRUCTURAL SYSTEM HAS BEEN COMPROMISED.

G. CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON DRAWINGS) THAT ARE TO REMAIN PRIOR TO DEMOLITION. CONTRACTOR SHALL NOT REQUEST ADDITIONAL CHARGES FOR SUCH UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION). WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.

H. WHERE SURFACE MOUNTED ITEMS ARE REMOVED FROM WALLS OR SLABS; (I.E., SIGNAGE, RACEWAYS, EQUIPMENT, FIXTURES, & ETC) - PATCH/REPAIR SURFACES AS REQUIRED TO MATCH EXISTING ADJACENT FINISHES.

I. ITEMS OR MATERIALS NOT INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED ARE TO REMAIN THE OWNER'S PROPERTY. DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE WITH FURTHER DISPOSAL AT THE CONTRACTOR'S OPTION.

J. ALL KNOWN HAZARDOUS MATERIALS WITHIN THE BUILDING WILL BE IDENTIFIED IN A REPORT AND MADE AVAILABLE TO THE CONTRACTOR. CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE ANY REQUIRED ABATEMENT PROCEDURES PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK.

K. DEMOLITION PLANS INDICATE MATERIALS & ELEMENTS OF DEMOLITION WITH DASHED LINES. NOTES USED ARE TYPICAL BY SHEET.

LEGEND - DEMOLITION PLAN

EXISTING WALL TO BE DEMOLISHED

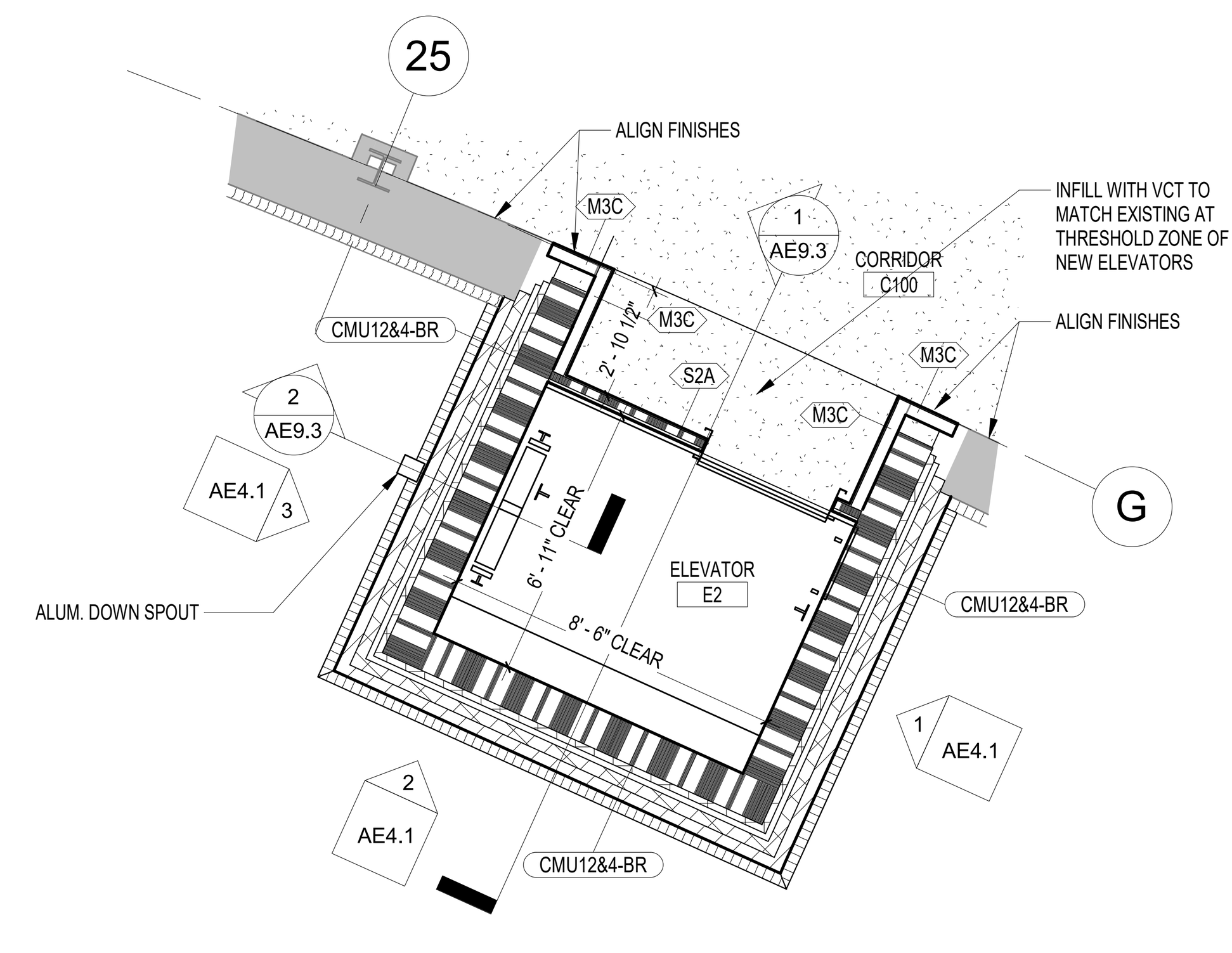
EXSITING WALL TO REMAIN

EXISTING DOOR TO BE DEMOLISHED

EXISTING DOOR TO BE REMAIN

EXISTING WINDOW TO BE DEMOLISHED

EXISTING WINDOW TO REMAIN



4 AE9.2 ELEVATOR TWO ENLARGED PLAN - FIRST FLOOR
1/4" = 1'-0" REFERENCED ON: AE1.0

GENERAL NOTES - REFLECTED CEILING PLAN

1. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY AND SPECIFIC LIGHT FIXTURE DESIGNATIONS AND FOR FULL EXTENT OF ELECTRICAL CEILING AND WALL MOUNTED DEVICES.

2. ALL SUSPENDED ACOUSTICAL GRIDS ARE TO BE CENTERED IN CEILING/ROOM AS SHOWN, UNLESS NOTED OTHERWISE.

3. CEILING MOUNTED EQUIPMENT, DEVICES, FIXTURES & GRILLES MUST BE COORDINATED ON REFLECTED CEILING PLANS. CEILING MOUNTED SPRINKLERS TO BE LOCATED IN CENTER OF CEILING TILE IN APC CEILINGS AND ALIGN WITH DOWNLIGHTS IN GYPSUM CEILINGS AND SOFFITS.

4. SEE FP DRAWINGS FOR FIRE PROTECTION SYSTEM LAYOUT. COORDINATE ROUTING OF PIPING W/ ARCHITECTURAL DWGS AND DETAILS AS WELL AS ALL OTHER SYSTEM DRAWINGS (S's, M's, P's, & E'S). SUBMIT LAYOUT/COORDINATION DRAWING FOR REVIEW & APPROVAL PRIOR TO INSTALLATION.

5. PAINT ALL EXPOSED STRUCTURE/CEILING AREAS, INCLUDING ROOF DECK, STEEL STRUCTURE, DUCTWORK, PLUMBING LINES, FIRE SUPPRESSION LINES, ELEC. CONDUITS & BOXES AND OTHER NON-FINISHED ITEMS, EXCEPT IN MECHANICAL ROOMS, ELECTRICAL ROOM, ELEVATOR MACHINE ROOMS, AND TEL/ DATA/COMM ROOMS, UNLESS NOTED OTHERWISE ON RCPS, FINISH SCHEDULES AND INTERIOR ELEVATIONS.

6. ACCESS PANELS BY GENERAL CONTRACTOR. QUANTITY OF ACCESS PANELS SHOWN ON ARCHITECTURAL DRAWINGS NOT INTENDED TO BE ALL INCLUSIVE; SEE MECHANICAL DRAWINGS, PLUMBING DRAWINGS, ELECTRICAL DRAWINGS, AND FIRE PROTECTION SHOP DRAWINGS FOR ADDITIONAL REQUIRED ACCESS PANELS NOT SHOWN. COORDINATE EXACT LOCATION OF ACCESS PANELS WITH ARCHITECT. BRING ALL MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WHICH REQUIRE ACCESS TO THE NEAREST ACCESSIBLE CEILING OR ACCESS PANEL LOCATION SHOWN. BRING THE NEED FOR ADDITIONAL ACCESS PANELS TO THE ARCHITECT'S ATTENTION AS SOON AS POSSILE AND BEFORE PROCEEDING.

7. PAINT ALL EXPOSED STEEL LINTELS, ANGLES AND PLATES, AND BEAMS UNLESS NOTED OTHERWISE.

LEGEND - REFLECTED CEILING PLAN

SUPPLY & RETURN MECHANICAL DIFFUSERS - SEE MECH. DWGS.

LINEAR SLOT DIFFUSER - SEE MECH. DWGS.

LIGHT FIXTURES - SEE ELEC. DWGS.

RECESSED DOWNLIGHT - SEE ELEC. DWGS.

WALL MOUNTED LIGHT FIXTURES - SEE ELEC. DWGS.

STRIP LIGHT FIXTURE - SEE ELEC. DWGS.

PENDANT LIGHT - SEE ELEC. DWGS.

EXIT LIGHTS - SEE ELEC. DWGS. AND LIFE SAFETY PLANS FOR LOCATIONS

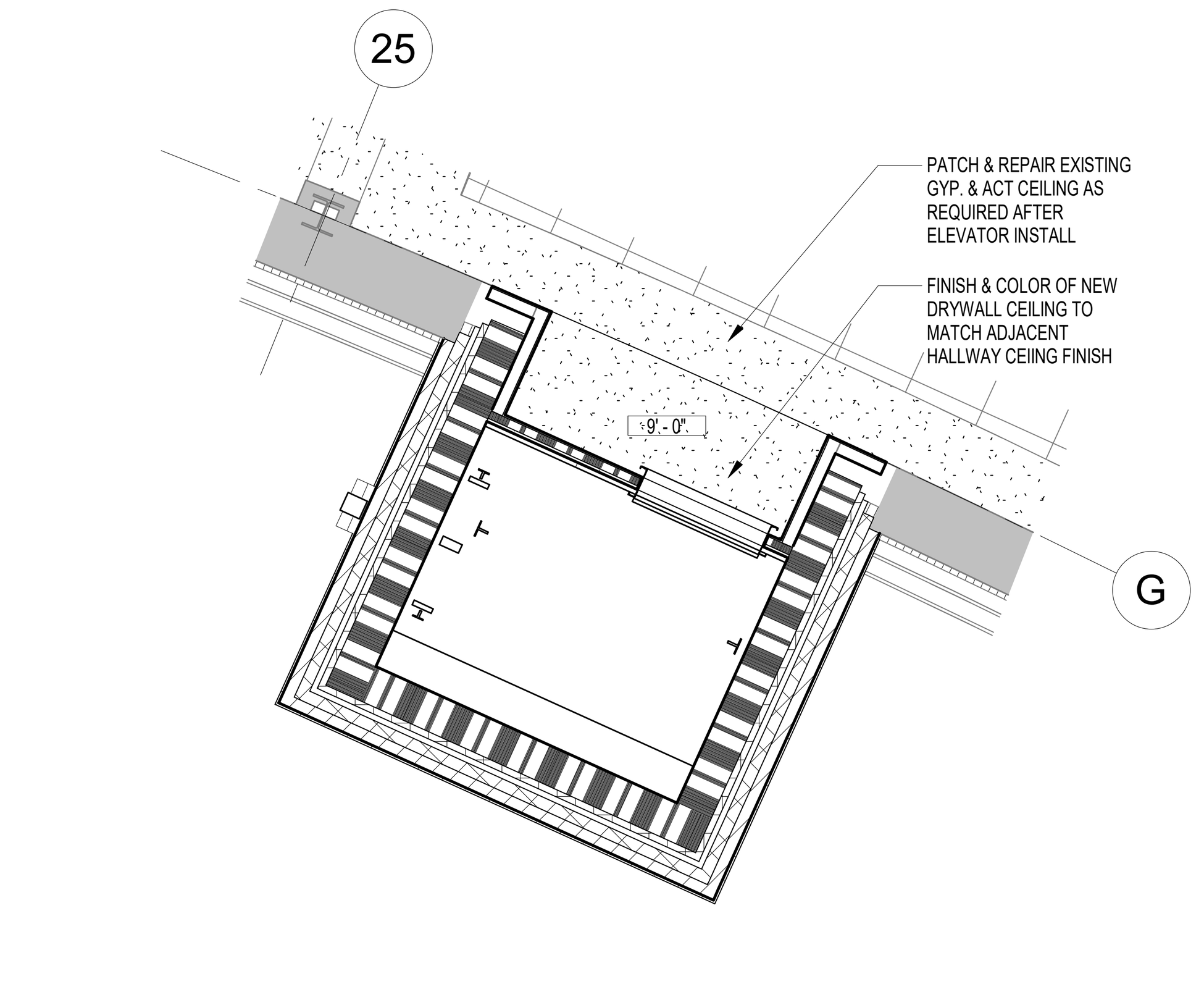
C.J. CEILING SYSTEM CONTROL JOINT

BUILDING EXPANSION JOINT TYPE

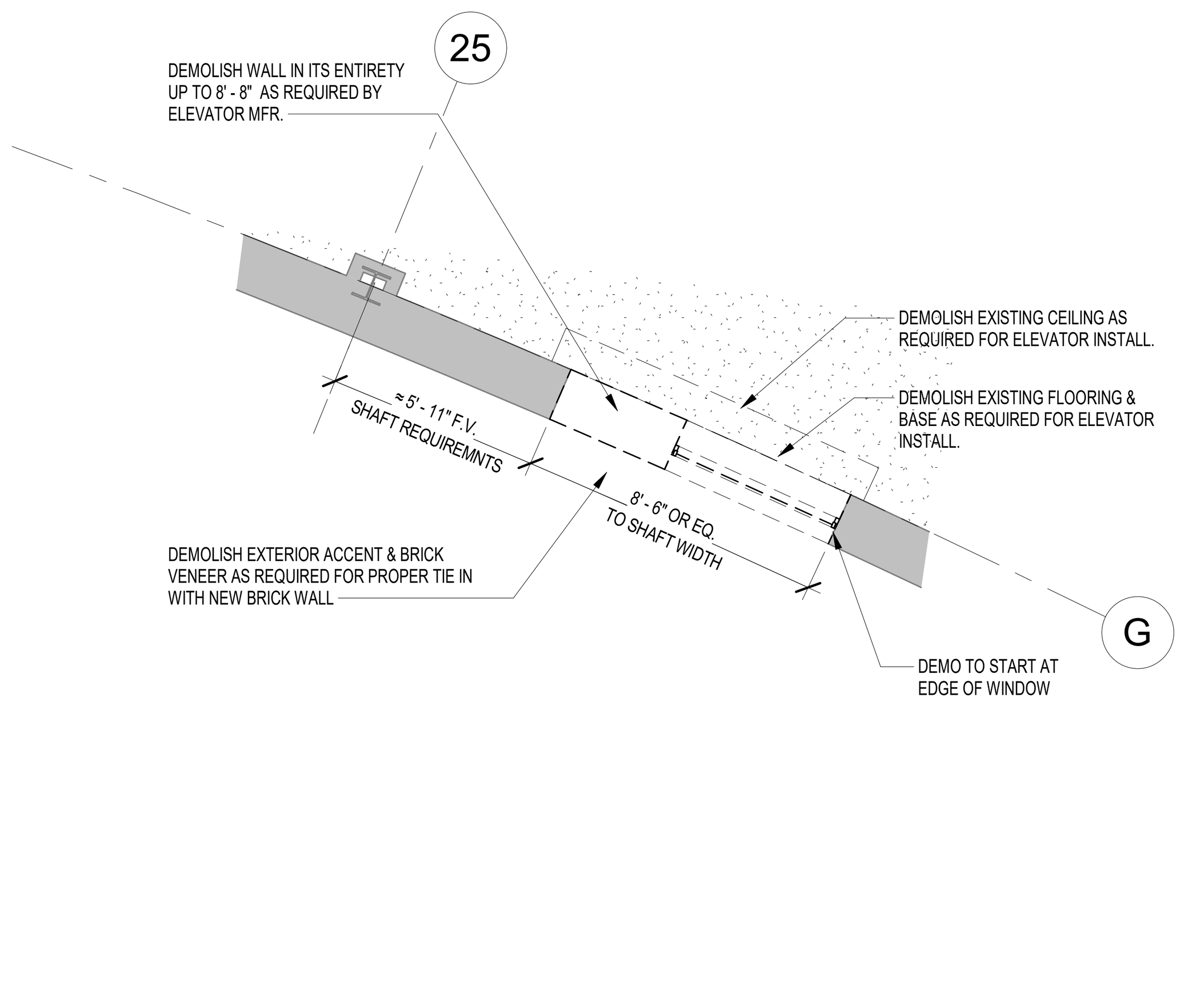
GYPSUM BOARD CEILING

ACOUSTICAL PANEL CEILING - APC -1

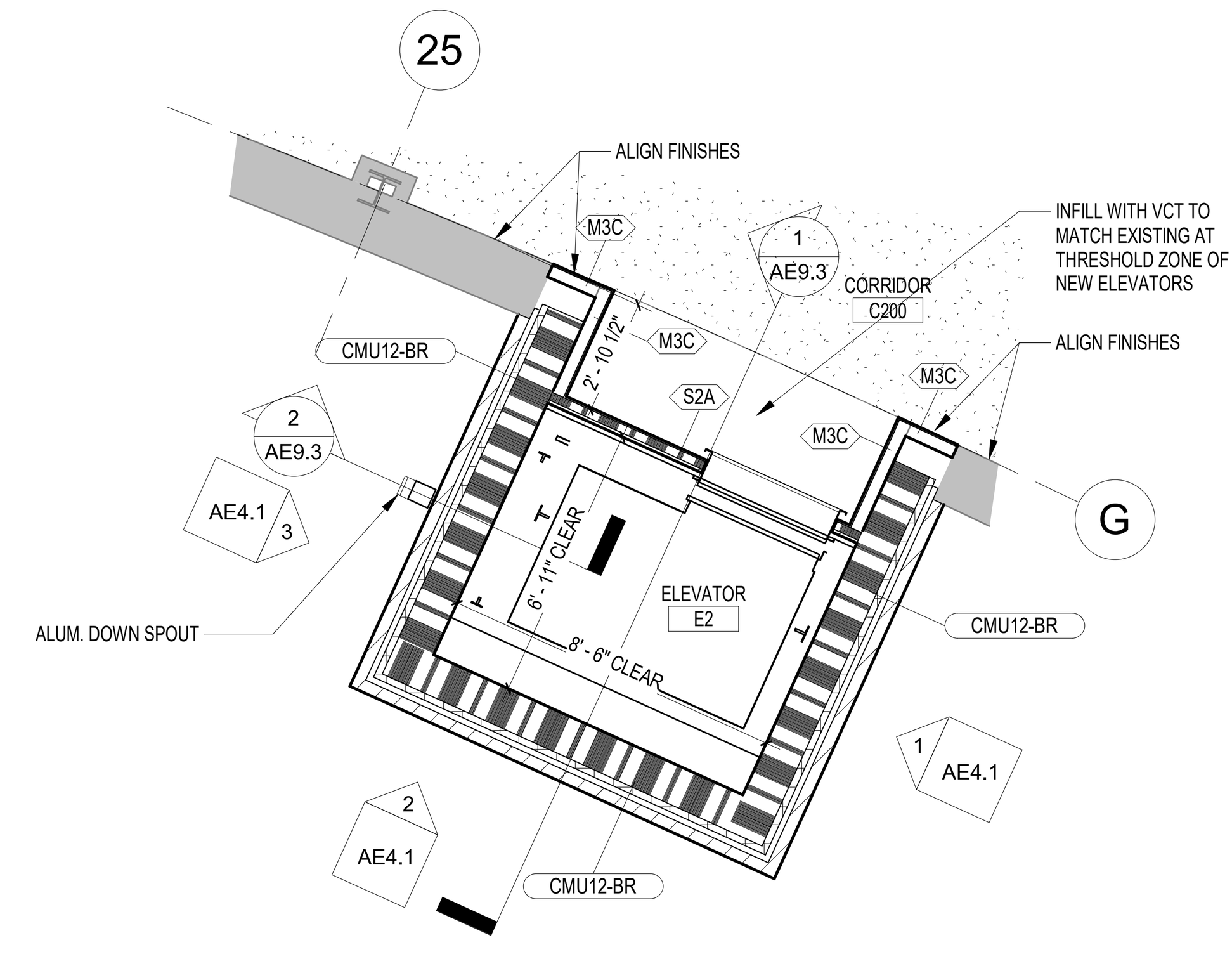
12' - 8" SHOWS CEILING HEIGHTS RELATIVE TO MAIN 0'-0" FINISHED FLOOR ELEVATION



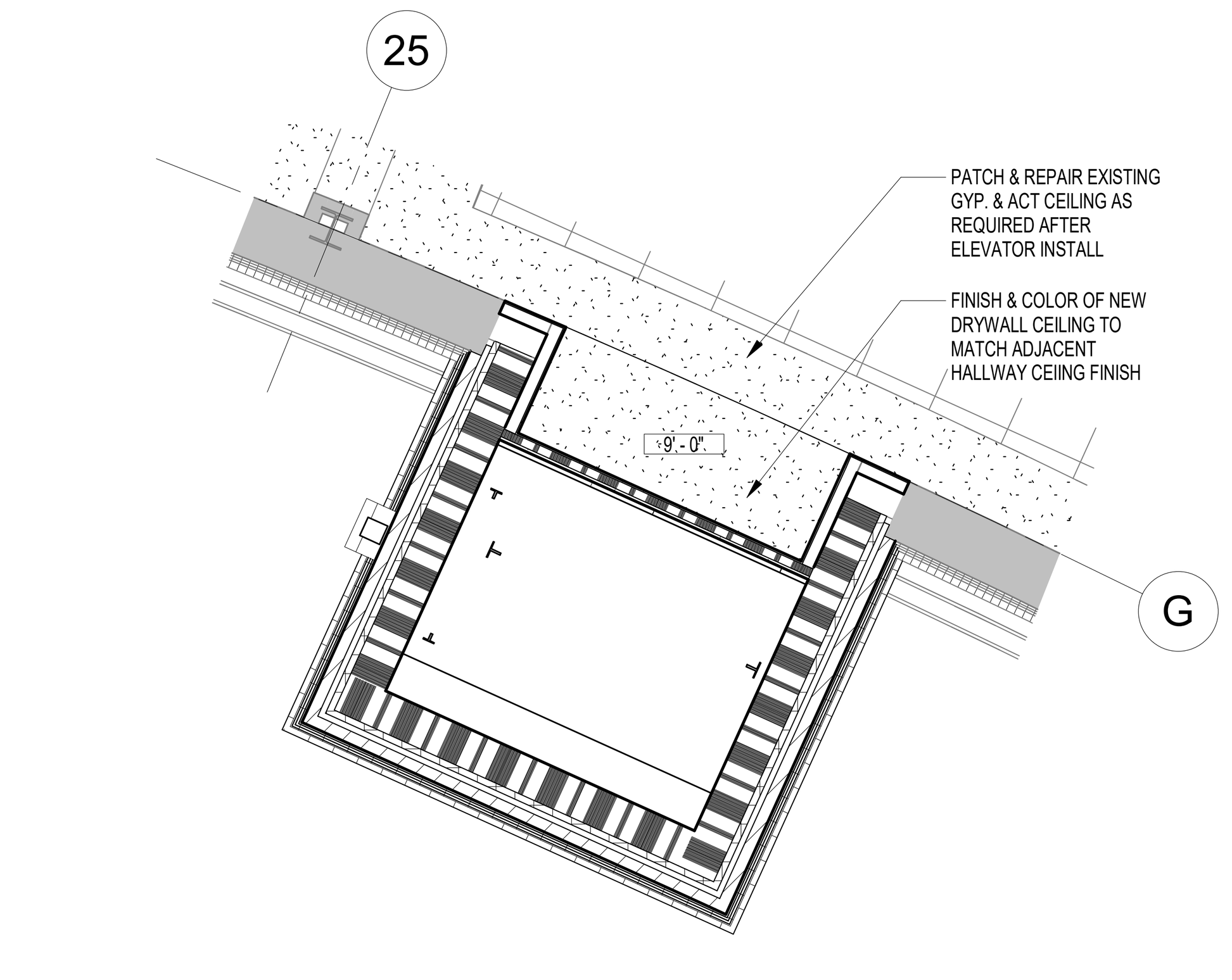
7 AE9.2 ELEVATOR TWO ENLARGED RCP - FIRST FLOOR
1/4" = 1'-0" REFERENCED ON:



2 AE9.2 ELEVATOR TWO ENLARGED PLAN - FIRST FLOOR
1/4" = 1'-0" REFERENCED ON:



5 AE9.2 ELEVATOR TWO ENLARGED PLAN - SECOND FLOOR
1/4" = 1'-0" REFERENCED ON: AE1.0



8 AE9.2 ELEVATOR TWO ENLARGED RCP - SECOND FLOOR
1/4" = 1'-0" REFERENCED ON:

GENERAL NOTES - FLOOR PLAN

1. SEE SHEET G1.2 FOR MINIMUM REQUIRED ADA/ANSI A117.1 MANEUVERING CLEARANCES AND ACCESSIBILTY REQUIREMENTS. ACCESSIBLE DOOR MANEUVERING CLEARANCES APPLY TO ALL DOORS, U.N.O.. ALL ACCESSIBLE ROUTES MUST MAINTAIN COMPLIANCE WITH ADA/ANSI FLOOR SURFACES & CHANGES IN LEVEL LIMITS SHOWN ON A3.0.

2. SEE CODE REVIEW SHEET(S) FOR REQUIRED UL ASSEMBLIES OF ALL BUILDING SYSTEMS. ALL PENETRATIONS THROUGH RATED WALL AND FLOOR ASSEMBLIES MUST COMPLY WITH UL DESIGN FOR PENETRATIONS.

3. DIMENSIONS INDICATED ON THESE DRAWINGS ARE TO FACE OF CMU WALL, FACE OF EXTERIOR VENEER, FACE OF STUD, OR CENTERLINE OF COLUMN UNLESS OTHERWISE INDICATED. COORDINATE ALL DIMENSIONS WITH STRUCTURAL DIMENSION PLANS, ENLARGED PLANS, SECTION AND DETAIL DRAWINGS, STRUCTURAL DRAWINGS AND VERIFY EXACT LOCATIONS. COORDINATE ALL FLOOR SLAB PENETRATIONS WITH SYSTEM DRAWINGS (S'S, M'S, P'S, FP'S, AND E'S) AND ACTUAL PRODUCTS TO BE INSTALLED AND VERIFY LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.

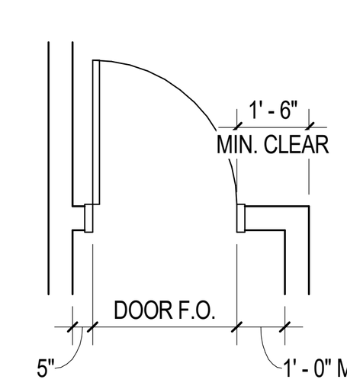
4. SEE FINISH SCHEDULES AND PLANS FOR FLOOR PATTERNS AND FLOOR FINISH REFERENCES.

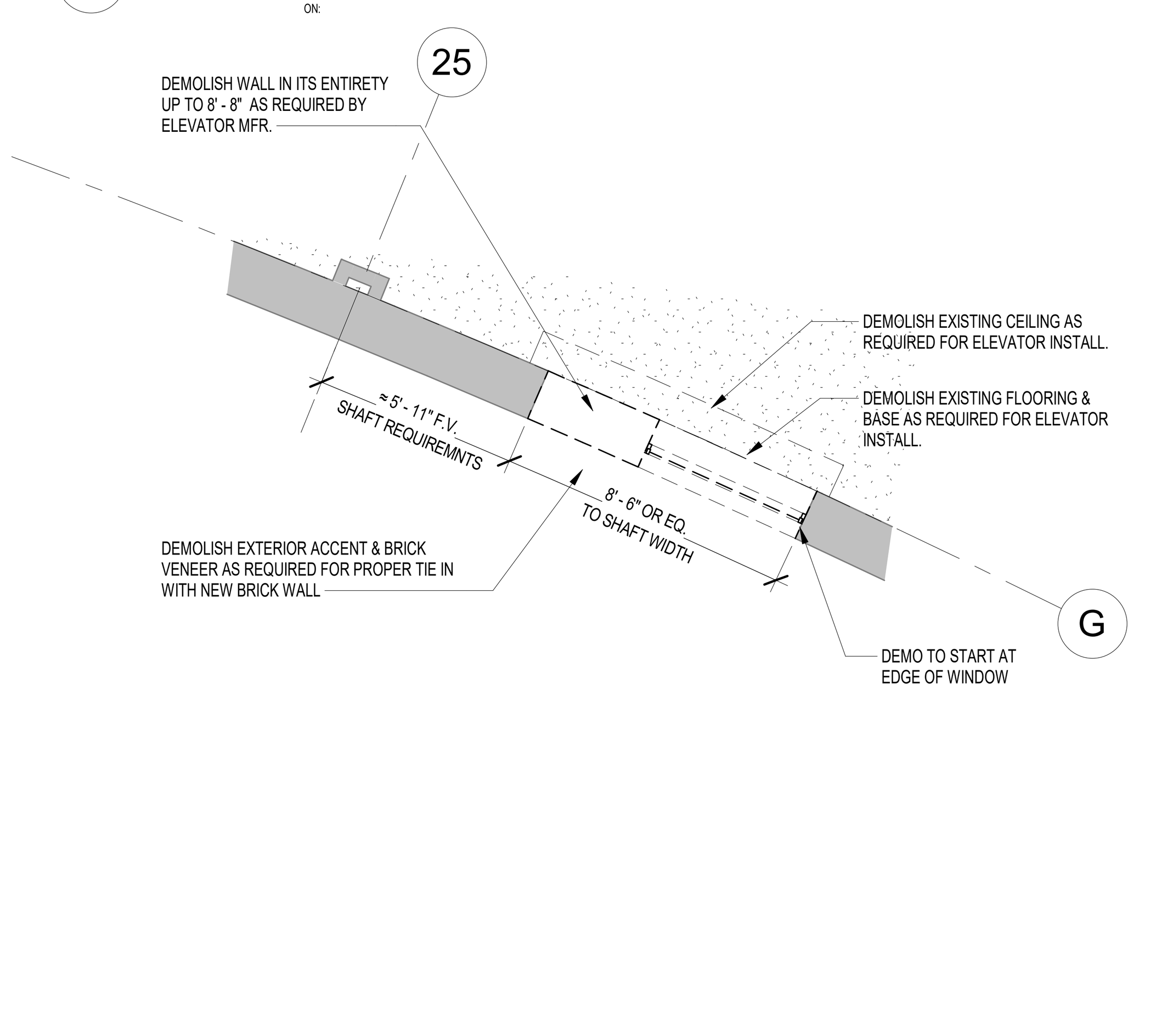
5. EXTERIOR MASONRY OPENINGS TO RECEIVE STOREFRONT, CURTAINWALL, DOORS, WINDOWS, LOUVERS, OR OTHER ELEMENTS SHALL BE FIELD VERIFIED PRIOR TO MANUFACTURE OF SYSTEM.

6. INTERIOR METAL STUD OPENINGS TO RECEIVE STOREFRONT, DOORS, GRILLES, LOUVERS, OR OTHER ELEMENTS SHALL BE FIELD VERIFIED PRIOR TO MANUFACTURE OF SYSTEM. LOCATION OF ALL RECESSED CABINETS AND EQUIPMENT WALL PENETRATIONS MUST BE VERIFIED PRIOR TO INSTALLATION OF CMU WALLS TO ENSURE INDICATED LOCATION AND EVEN COURSING. ANY CONFLICTS WITH INDICATED DIMENSIONS OR LOCATIONS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.

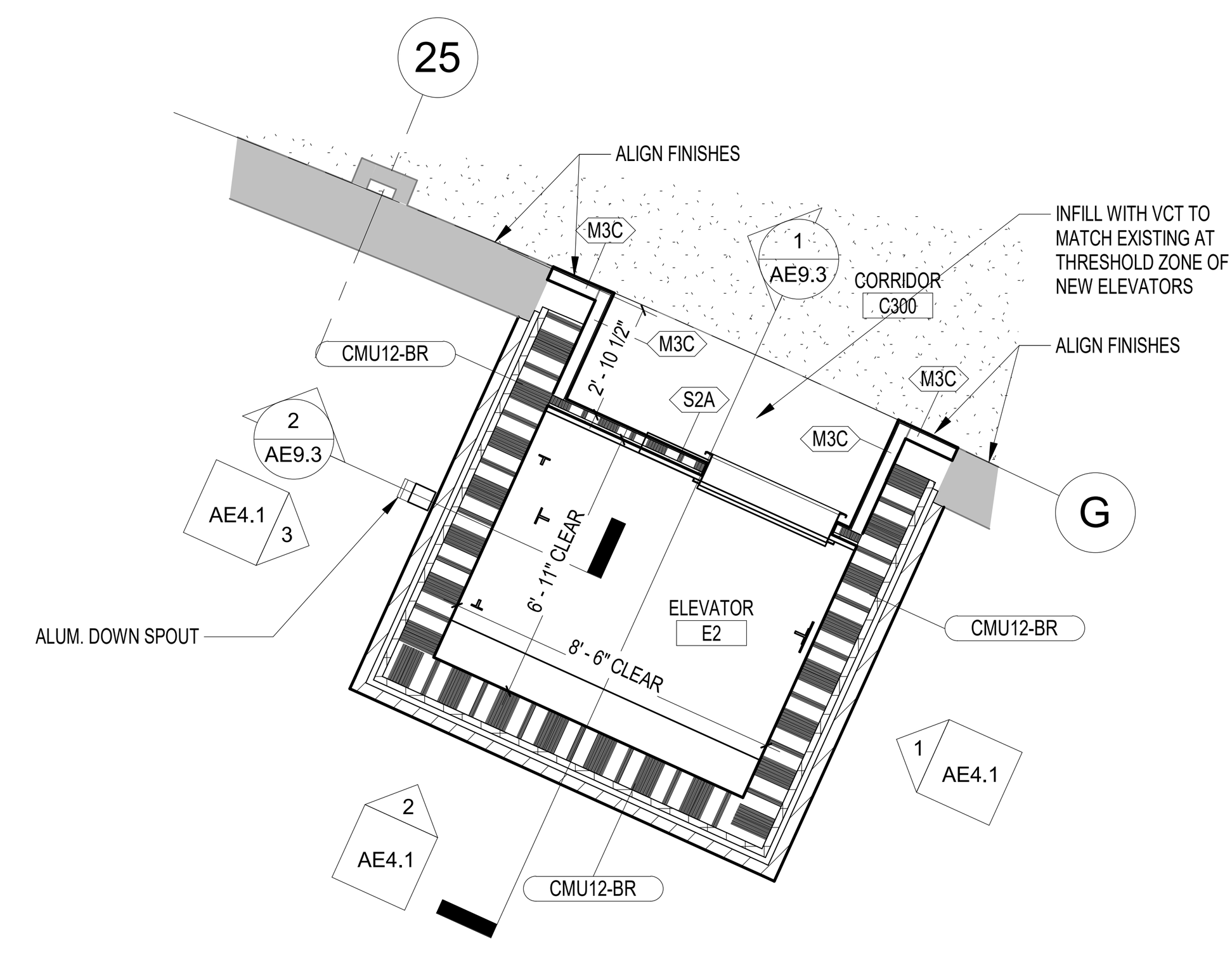
7. CONTACT OWNER AND ARCHITECT UPON DISCOVERY OF ANY SUSPECTED ASBESTOS-CONTAINING MATERIALS OR OTHER SUSPECTED HAZARDOUS MATERIALS NOT SHOWN TO BE REMOVED WITHIN THE PROJECT SCOPE.

9. DIMENSIONS FROM DOOR JAMB FRAME OPENING TO CLOSEST WALL FINISH IS 5", U.N.O. SEE DIAGRAM BELOW

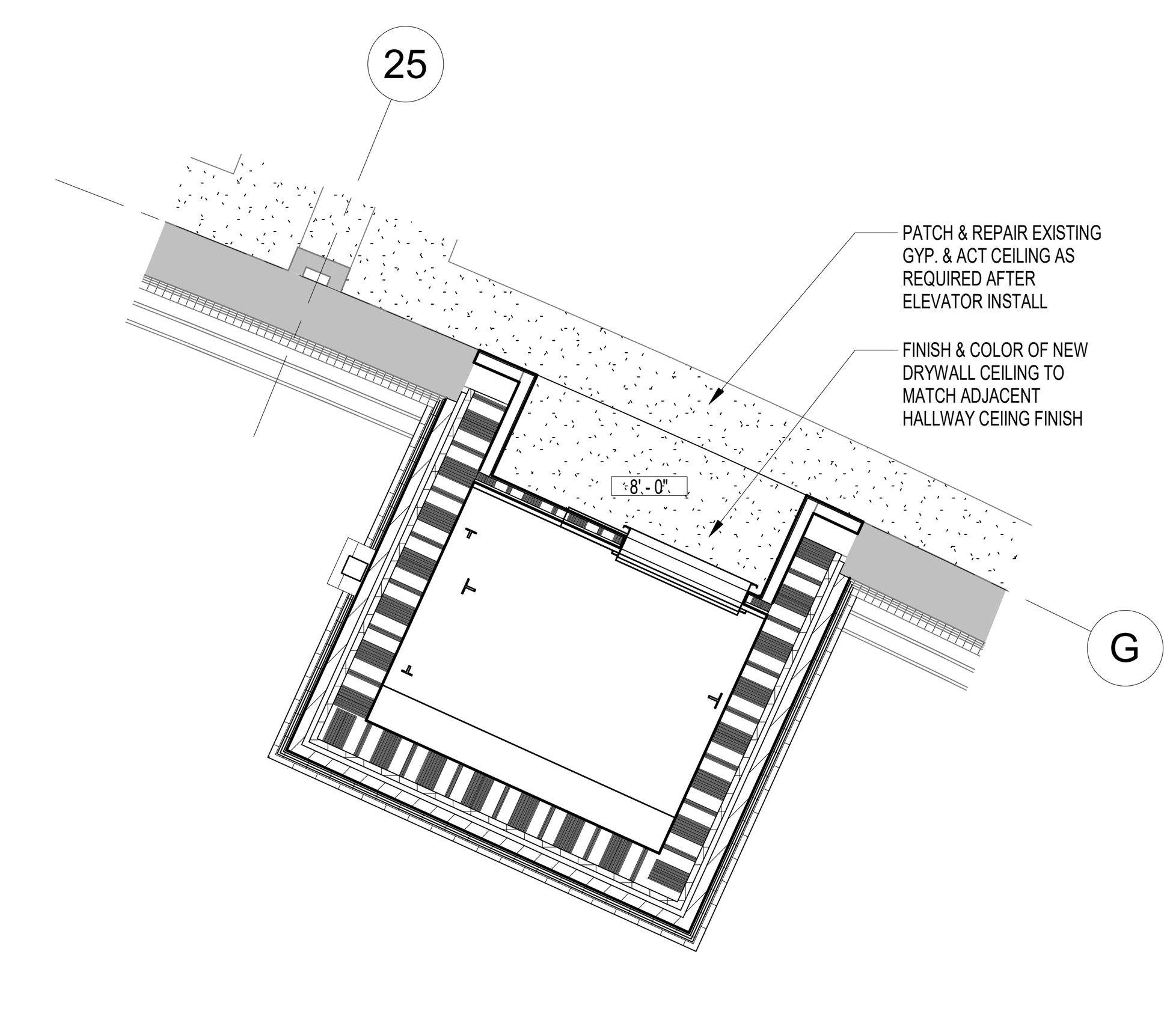




3 AE9.2 ELEVATOR TWO ENLARGED PLAN - FIRST FLOOR
1/4" = 1'-0" REFERENCED ON:



6 AE9.2 ELEVATOR TWO ENLARGED PLAN - THIRD FLOOR
1/4" = 1'-0" REFERENCED ON: AE1.0



9 AE9.2 ELEVATOR TWO ENLARGED RCP - THIRD FLOOR
1/4" = 1'-0" REFERENCED ON:

LEGEND - FLOOR PLAN

ONE-HOUR FIRE-RATED WALL ASSEMBLY

TWO-HOUR FIRE-RATED WALL ASSEMBLY

FOUR-HOUR FIRE-RATED WALL ASSEMBLY

HALF-HOUR FIRE-RATED WALL ASSEMBLY

NOTE: SEE PARTITION TYPES FOR UL SYSTEM DESIGN NO'S.

SCHEDULE INTERIOR FINISHES ELEVATOR

ABBREVIATION	DESCRIPTION	BASIS OF DESIGN
BASE & ACCESSORIES		
WDB	WOOD BASE	MATCH EXISTING
FLOOR FINISHES		
VCT-1	VINYL COMPOSITION TILE - CORRIDOR	TARKETT VCT II: COLOR: SOLID BLACK
CEILINGS		
GB/P-2	GYPSUM WALL BOARD - PAINTED	SEE P-2 ABOVE
PAINT/COATINGS		
P-1	PAINT--GENERAL WALL COLOR	LOW-SHEEN, EGGSHELL, TO MATCH SURROUNDING WALLS
P-2	PAINT-CEILINGS	FLAT--TO MATCH EXISTING PAINTED CEILING
P-3	PAINT-TRIM	SEMI-GLOSS, COLOR TO MATCH EXISTING TRIM

GENERAL NOTES - INTERIOR FINISHES ELEVATOR

A. WHERE SPECIFIC PRODUCTS ARE INDICATED, ITEM DESIGNATION INCORPORATES QUALITY AND AESTHETIC APPEARANCE FOR 'BASIS OF DESIGN.' SEE SPECIFICATIONS FOR EQUAL MANUFACTURERS PER PRODUCT TYPE INDICATED. DEPENDING ON LOCATION OF ITEM, ALTERNATES SHALL MATCH IN COLOR/TEXTURE, AS WELL AS PERFORMANCE CRITERIA, PER ARCHITECT'S APPROVAL.

B. ALL PAINT COLOR SELECTIONS SHALL MATCH EXISITNG CONDITIONS. FIELD VERIFY WITH ARCHITECT IN LIGHTED CONDITIONS PRIOR TO FINAL INSTALLATION.

C. REFERENCE REFLECTED CEILING PLANS FOR EXTENT/LOCATION OF CEILING FINISH DESIGNATIONS AND HEIGHTS. DESIGN INTENT TO REPRODUCE EXISTING CEILING CONDITIONS AFTER RENOVATION SO SAVE AND PROTECT CEILING TILES AS NECESSARY FOR REUSE.

D. ELEVATOR TO RECEIVE PLASTIC LAMINATE PANELS. ARCHITECT TO SELECT FROM MANUFACTURER'S STANDARDS.

FINISH SCHEDULE ELEVATOR

ROOM NO.	ROOM NAME	BASE	FLOOR	WALL FINISH				CEILING	Comments
				NORTH	EAST	SOUTH	WEST		
C100	CORRIDOR	EXIST WB	VCT-1, EXISTING VCT	--	--	MATCH EXISTING	--	TOUCH UP TO MATCH EXISTING	ELEVATOR
C200	CORRIDOR	EXIST WB	VCT-1, EXISTING VCT	--	--	MATCH EXISTING	--	TOUCH UP TO MATCH EXISTING	ELEVATOR
C300	CORRIDOR	EXIST WB	VCT-1, EXISTING VCT	--	--	MATCH EXISTING	--	TOUCH UP TO MATCH EXISTING	ELEVATOR
E1	ELEVATOR	--	VCT-1	--	--	--	--		ELEVATOR
E2	ELEVATOR	--	VCT-1	--	--	--	--		ELEVATOR

12/15/2023 10:39:46 AM

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
STATE OF SOUTH CAROLINA NO. 6184 TERRY E. ROCHMANN COLUMBIA, SC REGISTERED ARCHITECT

A/E SEAL
STATE OF SOUTH CAROLINA NO. C03053 GARVIN DESIGN GROUP, INC. COLUMBIA, SC REGISTERED ARCHITECTS

PROJECT TITLE
WALL BUILDING CONFERENCE CENTER RENOVATION
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N141-CB

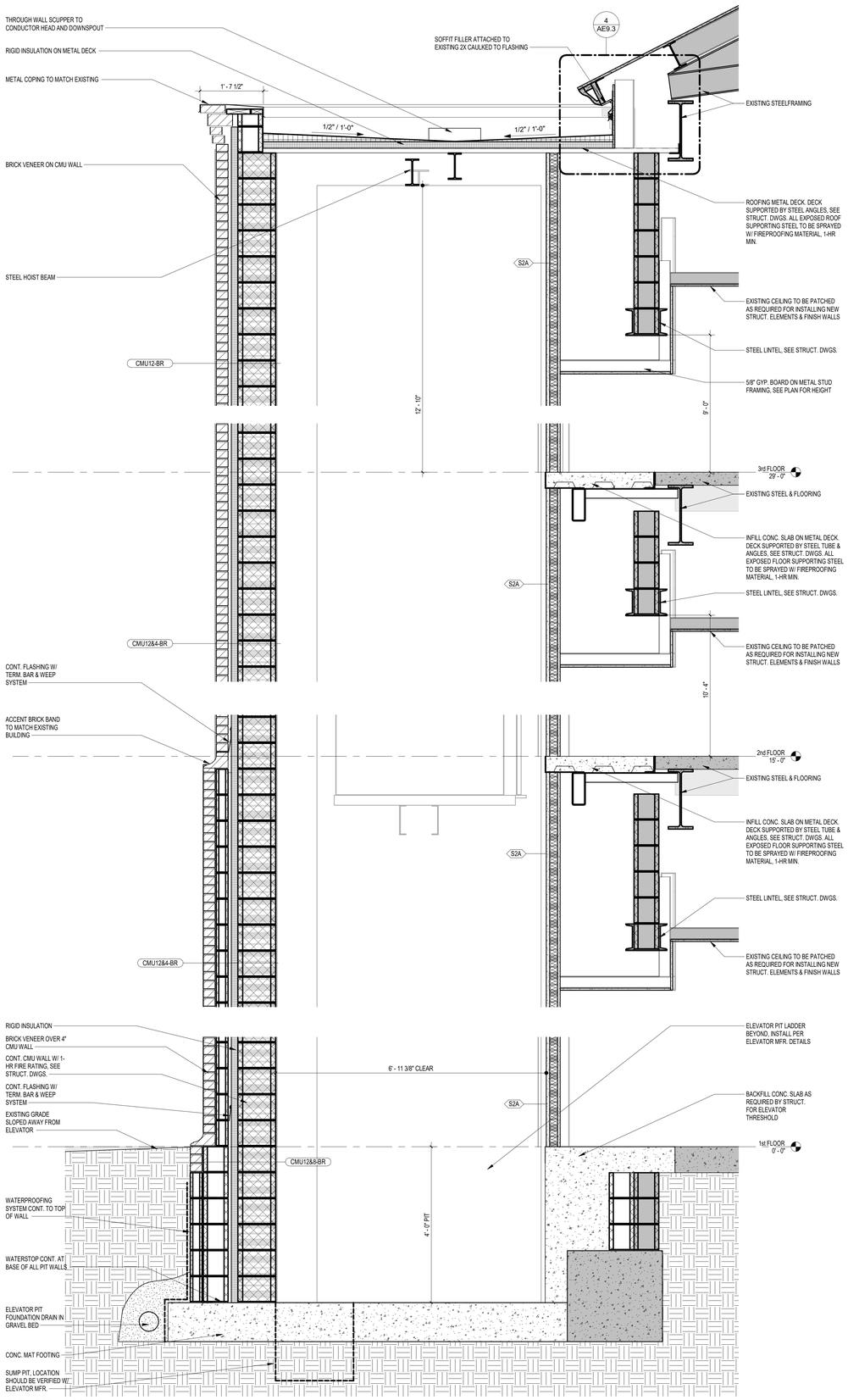
REVISIONS

NO.	NAME	DATE

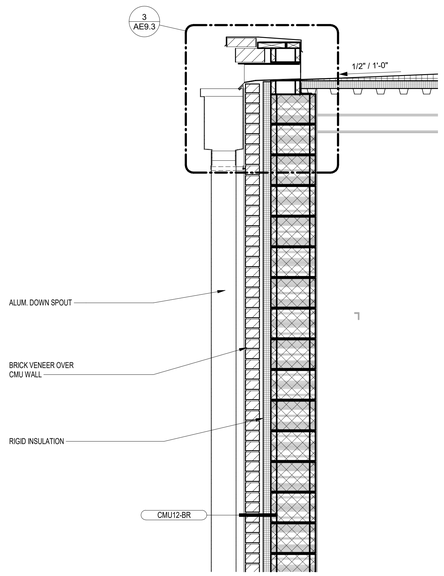
DRAWN BY: Author
CHECKED BY: Checker

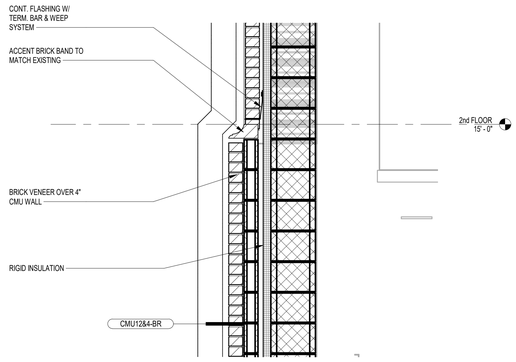
DRAWING TITLE
VERTICAL CIRCULATION

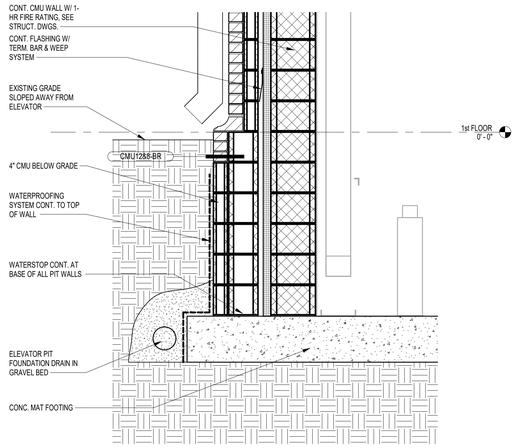
PROJECT NO. C670.22
DATE 12/14/2023
DRAWING NO. AE9.2



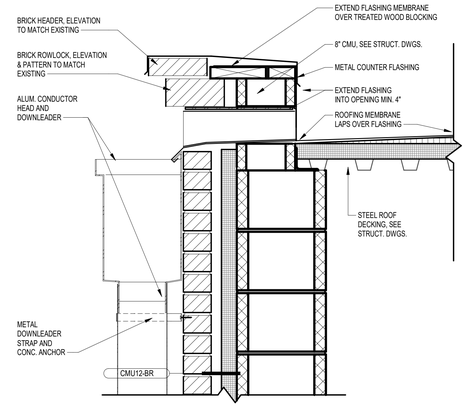
1 AE9.3 ELEVATOR N/S SECTION
3/4" = 1'-0" REFERENCED ON AE4.1



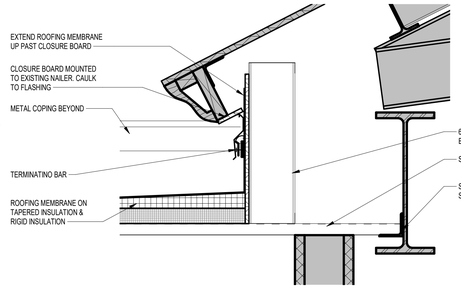




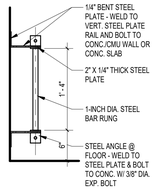
2 AE9.3 ELEVATOR E/W SECTION
3/4" = 1'-0" REFERENCED ON AE4.1



3 AE9.3 SCUPPER DETAIL
1 1/2" = 1'-0" REFERENCED ON AE9.3



4 AE9.3 ELEVATOR ROOF CONNECTION
1 1/2" = 1'-0" REFERENCED ON AE9.3



NOTE: G.C. TO VERIFY FINAL LADDER DIMENSIONS, LOCATION AND CLEARANCE REQUIREMENTS WITH ELEV. MFR.

5 AE9.3 ELEV PIT LADDER PLAN DETAIL
1" = 1'-0" REFERENCED ON

12/15/2023 10:39:49 AM

GARVINDESIGNGROUP
803.212.1632 p / 803.212.1074 f
P.O. Box 18 Columbia, SC 29202
1209 Lincoln Street

A/E SEAL
STATE OF SOUTH CAROLINA
NO. 8134
TERRY E. GARVIN
REGISTERED ARCHITECT
COLUMBIA, SC

A/E SEAL
STATE OF SOUTH CAROLINA
NO. C020053
GARVIN DESIGN GROUP, INC.
COLUMBIA, SC
REGISTERED ARCHITECTS

PROJECT TITLE
WALL BUILDING CONFERENCE CENTER RENOVATION
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N141-CB

REVISIONS

NO.	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

DRAWING TITLE
VERTICAL CIRCULATION

PROJECT NO. C670.22
DATE 12/14/2023
DRAWING NO. **AE9.3**

GENERAL MATERIAL REQUIREMENTS

CATEGORY	MATERIAL	NOTES
SOILS		- COMPACT SOIL TO 98% OF STANDARD PROCTOR. GEOTECHNICAL TESTING FIRM SHOULD VERIFY PRIOR TO PLACEMENT OF FOUNDATIONS
CONCRETE	- F'c = 4000 PSI CONCRETE @ 28 DAYS	- CONTRACTOR SHALL FOLLOW ACI PROCEDURES FOR PLACING CONCRETE IN HOT OR COLD WEATHER CONDITIONS.
REINFORCEMENT	- GRADE 60, ASTM A 615	- INSTALL ALL REBAR IN ACCORDANCE WITH ACI, CRSI
HELICAL PIERS	- PIPE MATERIAL: SCHEDULE 40 PER ASTM A500 - TRIPLE HELICES LEAD SECTION W/ 8", 10" & 12" DIAMETER HELICAL SECTIONS (ASTM A1018 GRADE 55) - 12"x6"x6" TOP EMBED PLATE W/ 3" DIA. SCH 40 x 6" SLEEVE W/ (2)-3/4" THRU BOLTS - GROUT: F'c = 3000 PSI @ 28 DAYS	- HOT DIP GALV. PER ASTM A123 - ONE HELICAL PILE COMPRESSION TEST REQUIRED AS DESCRIBED IN THE ASTM D1143 "QUICK TEST" PROCEDURE AND SPECS.
MASONRY	- CMU ASTM C90 - MORTAR TYPE "S"	- SEE DETAIL FOR REINFORCEMENT
GROUT	- F'c = 2500 PSI GROUT	- GROUT MASONRY CELLS SOLID

STRUCTURAL/GENERAL NOTES:

1. SEE THE ATTACHED PROJECT MANUAL FOR FURTHER INFORMATION AND SPECS RELATED TO THIS PROJECT.
2. THE CONTRACTOR SHOULD VISIT THE PROJECT SITE TO REVIEW AND VERIFY EXISTING CONDITIONS AND DIMENSIONS. ANY QUESTIONS SHOULD BE BROUGHT TO THE ATTENTION OF WEATHERLY ENGINEERING PRIOR TO BID.
3. THE CONTRACTOR SHALL SUBMIT THE MANUFACTURER'S HELICAL PIER COMPONENT INFORMATION TO WEATHERLY ENGINEERING, PRIOR TO INSTALLATION.
4. THE CONTRACTOR SHALL UTILITZE THE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING STRUCTURES AND AVOID UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE & AVOID ALL UTILITIES.
5. HELICAL PIER INSTALLATION SHALL BE INSPECTED BY A QUALIFIED INSPECTION FIRM OR WEATHERLY ENGINEERING. EACH PILE SHALL HAVE A RECORD OF INSTALLATION INFORMATION INCLUDING, DEPTH AND TORQUE.
6. CONCRETE REINFORCEMENT SHALL BE INSPECTED BY A QUALIFIED INSPECTION FIRM OR WEATHERLY ENGINEERING.
7. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO COLLECT CYLINDERS AND PERFORM CONCRETE COMPRESSIVE STRENGTH TESTS. A SET OF SIX CYLINDERS SHOULD BE TAKEN FOR EACH CONCRETE POUR. IT IS RECOMMENDED THAT (1)-CYLINDER IS TESTED AT 7-DAYS. (1)-CYLINDER AT 14-DAYS. (3)-CYLINDERS AT 28 DAYS AND (1)-HOLD CYLINDER FOR 56-DAY IF NECESSARY.
8. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO COLLECT MASONRY GROUT CUBES AND PERFORM CONCRETE COMPRESSIVE STRENGTH TESTS. A SET OF SIX CYLINDERS SHOULD BE TAKEN FOR EACH DAY GROUT IS PLACED. IT IS RECOMMENDED THAT (1)-CYLINDER IS TESTED AT 7-DAYS. (1)-CYLINDER AT 14-DAYS. (3)-CYLINDERS AT 28 DAYS AND (1)-HOLD CYLINDER FOR 56-DAY IF NECESSARY. AT THE BEGINNING OF ALL MASONRY WORK - MORTAR SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH ASTM C780.
9. ALL STRUCTURAL STEEL FRAMING & FLOOR DECKING SHALL BE FIREPROOFED TO A ONE-HOUR RATING - SEE ARCHITECTURAL DRAWINGS & SPECS FOR FIREPROOFING INFORMATION.

LOAD TABLE

2021 INTERNATIONAL BUILDING CODE AND ASCE 7-16

RISK CATEGORY: = III

BASIC LATERAL-FORCE RESISTING SYSTEM:
SPECIAL REINFORCED MASONRY SHEARWALLS

LIVE LOADS:
1. FLOOR LOADS:
   A. Common Areas = 100 psf
2. ROOF LOADS:
   A. Basic roof live load = 20 psf

Note: It shall be unlawful to place, cause or permit to be placed, on any floor or roof of a building, structure, or portion thereof, a load greater than is permitted by these requirements. (per IBC)

DEAD LOADS:
1. USE ACTUAL DEAD LOADS OF MATERIALS

SNOW LOADS:
GROUND SNOW LOAD - Pg = 10 psf

WIND LOADS:
$V_{ultimate}$ = 153 (mph)
V_{ASD} = 119 (mph)
WIND EXPOSURE = C
In wind borne regions, glazed openings shall be protected in the accordance with IBC 2018, ASCE 7-16 & local codes/requirements.

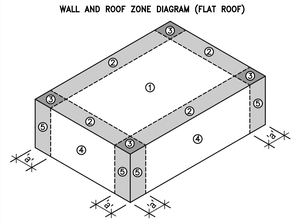
INTERNAL PRESSURE COEFICIENT:
Enclosed Building +/- 18%

COMPONENTS & CLADDING (see chart below)

ZONE	C&C WIND PRESSURES (ALLOWABLE) BASED ON EFFECTIVE WIND AREA (psf)							
	10ft²		20ft²		50ft²		100ft²	
ROOF ①	+16	-59	+15	-55	+13	-50	+12	-46
ROOF ②	+16	-78	+15	-73	+13	-66	+12	-61
ROOF ③	+16	-106	+15	-96	+13	-83	+12	-73
WALL ④	+34	-41	+33	-39	+31	-37	+29	-35
WALL ⑤	+34	-50	+33	-47	+31	-42	+29	-39

a = width of pressure coeff. zone = 8 feet
Roof Net Uplift = (Zone Suction Reduced by Dead Load)
Pressures Shown are Based Upon ASD Design - Load Factor of 0.6

WALL AND ROOF ZONE DIAGRAM (FLAT ROOF)



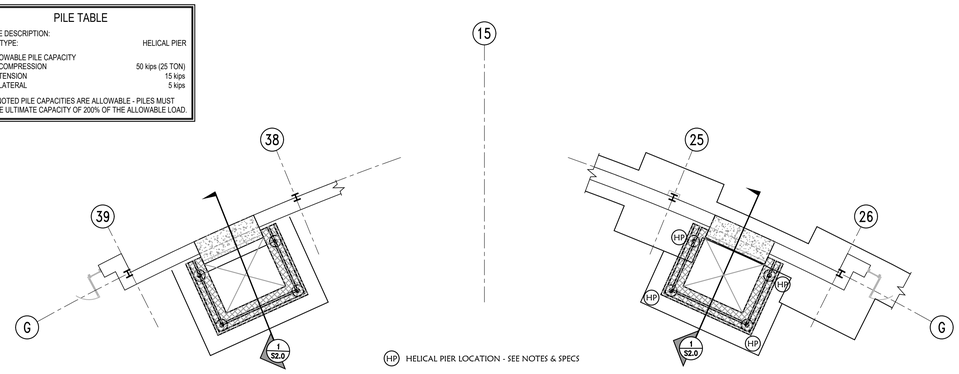
SEISMIC LOADS:
SOIL SITE CLASS - D
SEISMIC IMPORTANCE FACTOR - Ie = 1.25
SPECTRAL RESPONSE ACCELERATIONS
Ss = 0.301 S1 = 0.111
SPECTRAL RESPONSE COEFFICIENTS
Sds = 0.313 Sd1 = 0.176
SEISMIC DESIGN CATEGORY = C
RESPONSE MODIFICATION FACTOR - R = 5
SEISMIC RESPONSE COEFFICIENT - Cs = 0.08
DESIGN BASE SHEAR - 11 kips
ANALYSIS PROCEDURE - EQUIVALENT FORCE METHOD

RAIN INTENSITY:
(100 YEAR) ONE HOUR RAINFALL INTENSITY = 4.26 IN/HR

PILE TABLE

1. PILE DESCRIPTION:
   A. TYPE: HELICAL PIER
2. ALLOWABLE PILE CAPACITY
   A. COMPRESSION 50 kips (25 TON)
   B. TENSION 15 kips
   C. LATERAL 5 kips

NOTE: NOTED PILE CAPACITIES ARE ALLOWABLE - PILES MUST ACHIEVE ULTIMATE CAPACITY OF 200% OF THE ALLOWABLE LOAD



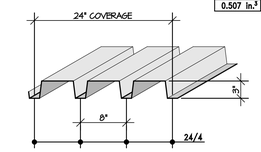
HP HELICAL PIER LOCATION - SEE NOTES & SPECS

ELEVATOR ADDITION
FOUNDATION PLAN

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

3"-20 GA. ROOF DECK

TYPE	GAUGE	FINISH		
N	20	GALVANIZED (G60)		
Sp	Sn	Ip	In	Fy min.
0.507 in.³	0.557 in.³	0.936 in.⁴	1.088 in.⁴	33 ksi



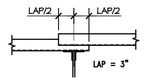
SUPPORT ATTACHMENT

ATTACH DECK TO ALL SUPPORTS WITH HILTI X-ENP-19 L15 PINS OR APPROVED EQUAL USING PATTERNS / SPACING INDICATED:
INTERMEDIATE: 24/4
ENDS / END LAPS: 24/4
PERIMETER: 12" o.c.

ATTACH PARITAL SHEETS IN ALL FLUTES

SIDE LAP ATTACHMENT

SIDE LAPS TO BE ATTACHED BETWEEN SUPPORTS WITH (5) #10 SELF DRILLING SCREWS BETWEEN SUPPORTS



END LAP DETAIL

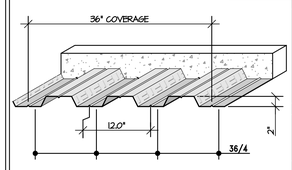
LAP END LAPS. END LAPS ARE TO OCCUR AT SUPPORTS ONLY.

CONTRACTOR's NOTE:

IN ORDER TO PREVENT FIELD FIT-UP AND PLACEMENT ISSUES THE STRUCTURAL STEEL SHOP DRAWINGS SHALL BE CAREFULLY COORDINATED WITH ANY OTHER COMPONENT DRAWINGS, INCLUDING BARJOIST AND DECKING SHOP DRAWINGS. THIS DETAILED COORDINATION IS TO BE PERFORMED BY THE STRUCTURAL STEEL SHOP DRAWING PROVIDER. THE PROVIDERS OF BARJOIST AND DECKING SHOP DRAWINGS (AND OTHER COMPONENTS) SHALL BACK CHECK THE STRUCTURAL STEEL SHOP DRAWINGS AS A SECONDARY VERIFICATION. THE GENERAL CONTRACTOR SHALL PROVIDE HIS OWN CHECK PRIOR TO COMPLETION OF THE SHOP DRAWING PROCESS.

2" COMPOSITE DECK

TYPE	GAUGE	FINISH		
INTERLOCKING SIDE LAPS	20	GALVANIZED (G90)		
Sp	Sn	Ip	In	Fy min.
0.342 in.³	0.347 in.³	0.417 in.⁴	0.412 in.⁴	40 ksi



SUPPORT ATTACHMENT

ATTACH DECK TO ALL SUPPORTS WITH HILTI PINS
USING PATTERNS / SPACING INDICATED:
INTERMEDIATE: 36/4
ENDS / END LAPS: 36/4
PERIMETER: 12" o.c.

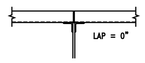
ATTACH PARITAL SHEETS IN ALL FLUTES

SIDE LAP ATTACHMENT

SIDE LAPS TO BE ATTACHED BETWEEN SUPPORTS WITH #10 SELF DRILLING SCREWS @ 36" o.c. MAX. BETWEEN SUPPORTS

SLAB INFORMATION

5.0 in. normal wgt. 150 pcf

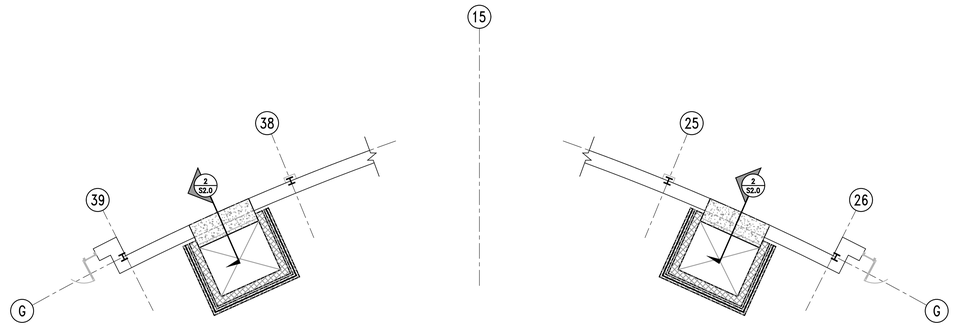


END LAP DETAIL

BUTT END LAPS. END LAPS ARE TO OCCUR AT SUPPORTS ONLY.

CONTRACTOR's NOTE:

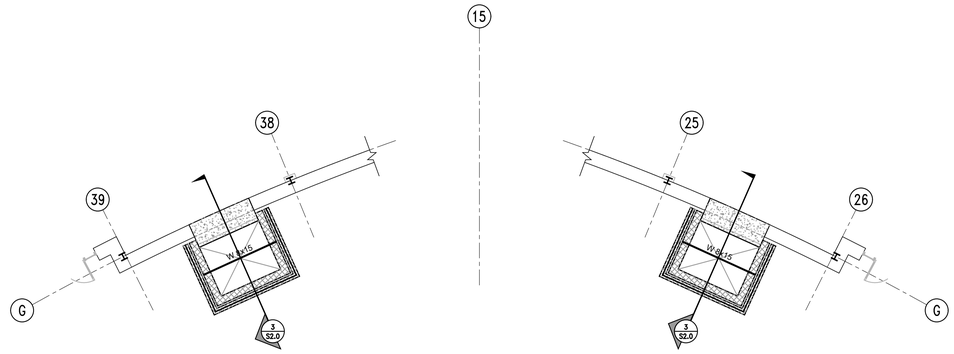
IN ORDER TO PREVENT FIELD FIT-UP AND PLACEMENT ISSUES THE STRUCTURAL STEEL SHOP DRAWINGS SHALL BE CAREFULLY COORDINATED WITH ANY OTHER COMPONENT DRAWINGS, INCLUDING BARJOIST AND DECKING SHOP DRAWINGS. THIS DETAILED COORDINATION IS TO BE PERFORMED BY THE STRUCTURAL STEEL SHOP DRAWING PROVIDER. THE PROVIDERS OF BARJOIST AND DECKING SHOP DRAWINGS (AND OTHER COMPONENTS) SHALL BACK CHECK THE STRUCTURAL STEEL SHOP DRAWINGS AS A SECONDARY VERIFICATION. THE GENERAL CONTRACTOR SHALL PROVIDE HIS OWN CHECK PRIOR TO COMPLETION OF THE SHOP DRAWING PROCESS.



ELEVATOR ADDITION
2nd & 3rd FLOOR FRAMING PLAN

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

(BP) DENOTES 5/8"x11"x16" STEEL BEAM BEARING PLATE W/ (4)-3/4"x6" HEADED STUDS



ELEVATOR ADDITION
ROOF FRAMING PLAN

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

(BP) DENOTES 5/8"x11"x16" STEEL BEAM BEARING PLATE W/ (4)-3/4"x6" HEADED STUDS

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

S/E SEAL
SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 15317
04.18.23
ASHLEIGH BRYAN WEATHERLY

S/E SEAL
SOUTH CAROLINA
WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC
No. 5538
CERTIFICATE OF AUTHORIZATION

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SC

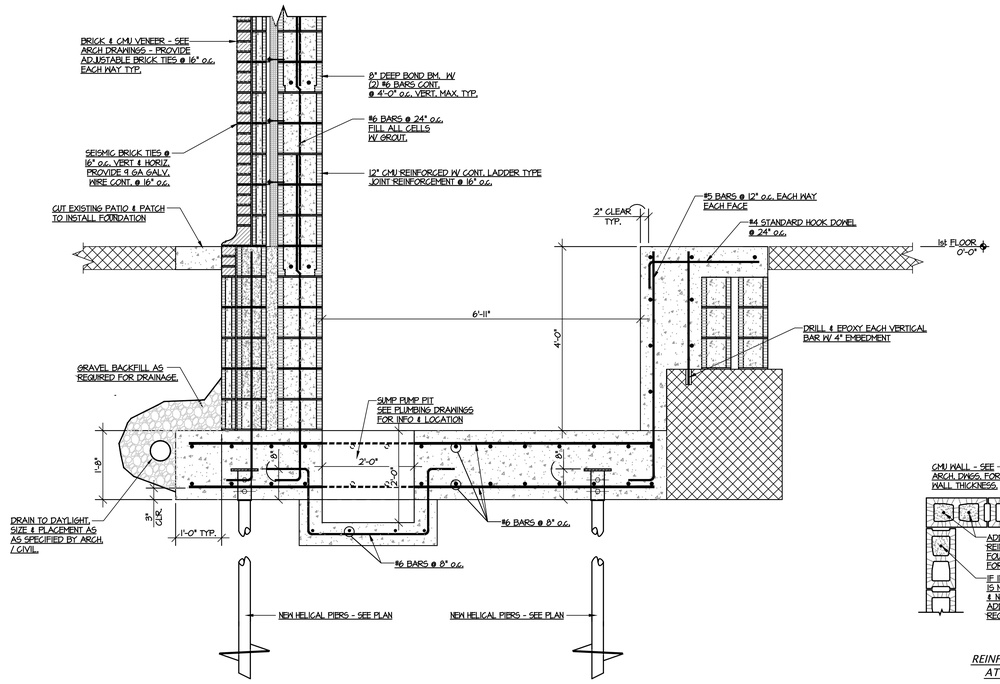
REVISIONS		
NO.	NAME	DATE

DRAWN BY: DVS
CHECKED BY: DVS
JOB NUMBER: 22-266

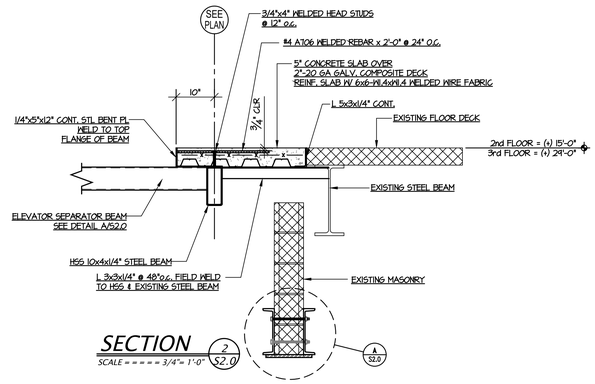
Weatherly ENGINEERING LLC

DRAWING TITLE
ELEVATOR ADDITION PLANS & NOTES

PROJECT NO. C670.22
DATE 4.18.23
DRAWING NO. **SE1.0**



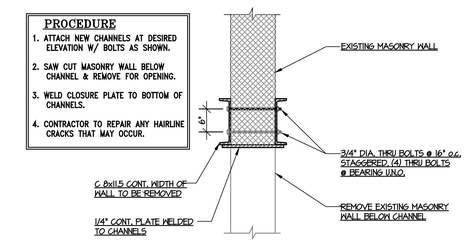
SECTION 1 / S2.0
SCALE = = = = = 3/4"= 1'-0"



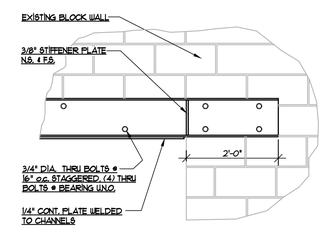
SECTION 2 / S2.0
SCALE = = = = = 3/4"= 1'-0"

PROCEDURE

1. ATTACH NEW CHANNELS AT DESIRED ELEVATION W/ BOLTS AS SHOWN.
2. SAW CUT MASONRY WALL BELOW CHANNEL & REMOVE FOR OPENING.
3. WELD CLOSURE PLATE TO BOTTOM OF CHANNELS.
4. CONTRACTOR TO REPAIR ANY HAIRLINE CRACKS THAT MAY OCCUR.

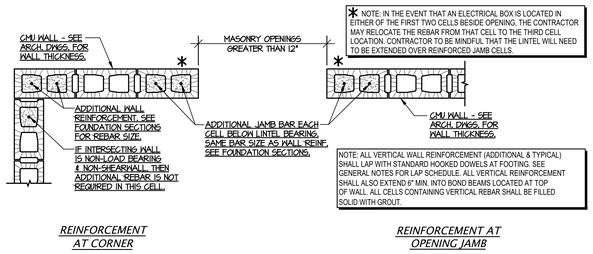


TYPICAL DETAIL FOR CREATING NEW OPENING IN EXISTING MASONRY WALL



TYPICAL END CONDITION @ CONTINUOUS MASONRY WALL

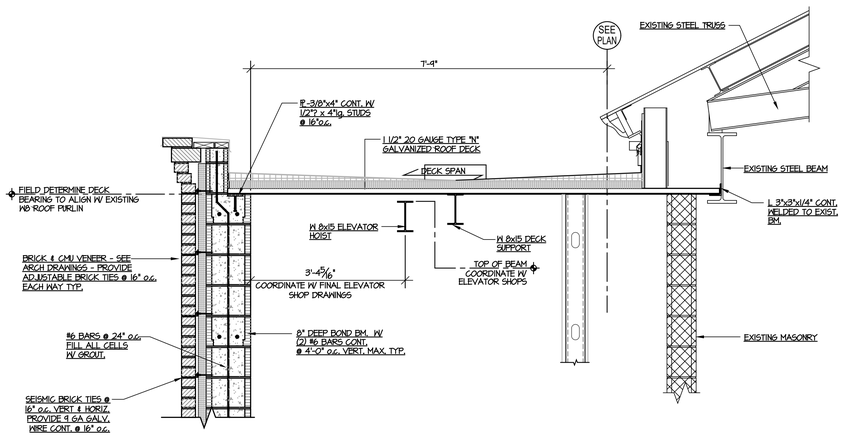
DETAIL A / S2.0
SCALE = = = = = 3/4"= 1'-0"



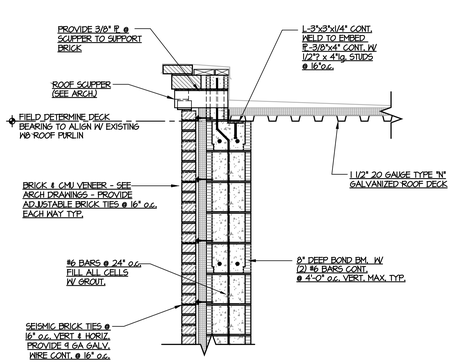
REINFORCEMENT AT CORNER

REINFORCEMENT AT OPENING JAMB

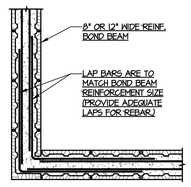
ADDITIONAL REINFORCEMENT DETAILS FOR LOAD-BEARING MASONRY WALLS
NO SCALE



SECTION 3 / S2.0
SCALE = = = = = 3/4"= 1'-0"



TYPICAL AT ROOF SCUPPER LOCATIONS



INTERSECTION OF BOND BEAMS AT CORNER

TYPICAL BOND BEAM INTERSECTION DETAILS
NO SCALE

GARVIN DESIGN GROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

SEAL: SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 15317 — 04.18.23 — ASHLEIGH BRYAN WEATHERLY

SEAL: SOUTH CAROLINA — WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC — No. 5538 — CERTIFICATE OF AUTHORIZATION

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SC

REVISIONS		
NO.	NAME	DATE

DRAWN BY: DWS
CHECKED BY: DWS
JOB NUMBER: 22-266

Weatherly ENGINEERING LLC

DRAWING TITLE
ELEVATOR ADDITION SECTIONS & DETAILS

PROJECT NO. C670.22
DATE 4.18.23
DRAWING NO. **SE2.0**

GENERAL PLUMBING NOTES

1. PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE PLUMBING SYSTEM.
2. DO NOT SCALE DRAWINGS. OBTAIN ROUGH-IN DIMENSIONS FROM ARCHITECTURAL DRAWINGS OR FROM MANUFACTURERS PRINTED INSTRUCTIONS AND RECOMMENDATIONS ONLY.
3. COORDINATE PLUMBING SYSTEMS WITH ALL TRADES TO AVOID CONFLICTS PRIOR TO INSTALLATION OF PLUMBING COMPONENTS.
4. OBTAIN ALL PERMITS AND INSPECTIONS FROM AUTHORITY HAVING JURISDICTION. THIS INCLUDES ALL FEES THAT MAY BE REQUIRED.
5. PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTION FROM AUTHORITY HAVING JURISDICTION.
6. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
7. UNLESS OTHERWISE SHOWN OR NOTED, ALL PIPING SHALL BE RUN CONCEALED IN WALLS, CHASES AND/OR ABOVE CEILINGS.
8. ALL SUSPENDED PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS. IN NO CASE SHALL PIPING BE SUSPENDED FROM FLOOR OR ROOF DECK.
9. WHERE PIPES PENETRATE FIRE RATED ASSEMBLIES, SEAL OPENING AROUND PIPES WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY.
10. PROVIDE INSULATION FOR PIPING COLLECTING CONDENSATE DRAIN.
11. PROVIDE HANGERS AND SUPPORTS WITHIN 12" OF EACH HORIZONTAL ELBOW FOR SANITARY AND VENT PIPING..
12. ALL CONNECTIONS TO, OR SHUTDOWN OF, EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER TO PROVIDE MINIMAL INTERFERENCE WITH THEIR OPERATIONS AND DOWNTIME OF THE SYSTEM.
13. AREAS OF WORK EXIST FOR THE PROJECT WHICH WERE NOT ACCESSIBLE OR PROVIDED LIMITED ACCESS DURING DESIGN. AS SUCH, CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK INCLUDING LOCATION AND INVERT ELEVATION BEFORE DEMOLITION OF ANY SERVICE. ANY PIPING NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO PIPING REWORK SHALL BE COMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER.
14. IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REPLACED, THE CONTRACTOR SHALL WORK THROUGH THE EXISTING CEILING (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK.
15. UNLESS OTHERWISE NOTED, WHERE EXISTING PIPING MUST BE DEMOLISHED, REMOVE ALL PIPING BACK TO THE MAIN AND CAP WITHIN ONE AND A HALF PIPE DIAMETERS NOT TO EXCEED 3 INCHES. DO NOT ABANDON DEAD LEG PIPING IN DOMESTIC WATER SYSTEMS.
16. PROVIDE A TEMPERATURE LIMITING DEVICE CONFORMING TO ASSE 1070 AT EACH LAVATORY, HAND WASHING SINK, OR ANY FIXTURE WITH A SENSOR FAUCET TO DELIVER 105°F WATER, UNLESS OTHERWISE NOTED. PROVIDE WATTS LFUSG-B FOR INDIVIDUAL LAVATORIES OR WATTS LFMMV FOR GROUPS OF LAVATORIES, OR APPROVED EQUALS.

PLUMBING CODES AND STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE	DESCRIPTION
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IPC (2021)	INTERNATIONAL PLUMBING CODE

PLUMBING ABBREVIATIONS

ABBR	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFP	BACKFLOW PREVENTER
BV	ISOLATION VALVE
BWV	BACKWATER VALVE
C	DOMESTIC COLD WATER SUPPLY
CFM	CUBIC FEET PER MINUTE
CV	CONCENTRIC VENT
F/A	FROM ABOVE
FCO	FLOOR CLEANOUT
FPM	FEET PER MINUTE
FS	WET TYPE FIRE SPRINKLER PIPING
FT	FEET
G	GREASE/KITCHEN WASTE
GPH	GALLONS PER HOUR
HB	HOSE BIBB
HCP	HOT WATER RECIRCULATING PUMP
HR	DOMESTIC HOT WATER RETURN
HVAC	HVAC MAKEUP WATER
IN	INCHES
IN WG	INCHES WATER GUAGE
OF	SECONDARY STORM
OFO	OVERFLOW OUTLET
P	PROPANE
PC	PLUMBING CONTRACTOR
S	SANITARY/WASTE PIPING
ST	STORM
U/G	UNDERGROUND
WCO	WALL CLEANOUT

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BFP	BACKFLOW PREVENTER	BWV	BACKWATER VALVE
	FLOW CONTROL		CONTROL VALVE
	PRESSURE REDUCING VALVE		BALANCING VALVE
	SWING CHECK VALVE		ISOLATION VALVE
	PLUG VALVE	S	SOLENOID VALVE
	PIPE UP		PIPE DOWN
	PIPE REDUCER		PIPE STRAIGHT TEE
	PIPE TEE DOWN	FCO	FLOOR CLEANOUT
	HOSE BIBB - INTERIOR, EXTERIOR	FD	FLOOR DRAIN WITH FLOOR SLOPED TO DRAIN
VTR	VENT THRU ROOF		TRAP PRIMER

PLUMBING PIPING LEGEND

	SANITARY AND WASTE PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT/TEMPERED WATER PIPING
	DOMESTIC HOT/TEMPERED WATER RETURN PIPING
	NATURAL GAS PIPING
	STORM PIPING
	SECONDARY STORM PIPING

PLUMBING SYSTEMS SEISMIC AND WIND REQUIREMENTS

PER IBC-2021/ASCE 7-16

A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16
B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.
C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.
G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.
H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

PLUMBING COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION

Ip = 1.0	Ip = 1.5
• ALL PLUMBING COMPONENTS EXCEPT AS LISTED UNDER Ip = 1.5	• NATURAL GAS PIPING & APPURTENANCES

SEISMIC DESIGN CATEGORIES D,E,F

COMPONENT IDENTIFICATION	COMPONENT IMPORTANCE FACTOR (Ip) 1.0 SEISMIC RESTRAINT REQUIREMENT	NOTES	COMPONENT IMPORTANCE FACTOR (Ip) 1.5 SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED	RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED	RESTRAIN ALL	1, 2	RESTRAIN ALL	-
WALL MOUNTED	RESTRAIN ALL	1, 2	RESTRAIN ALL	-
COMPONENT SUPPORTS	RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	RESTRAIN ALL	3	RESTRAIN ALL	3
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)	>3"	4	>1"	4
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)	RESTRAIN ALL	4	RESTRAIN ALL	4
SUSPENDED PIPE ON TRAPEZE	RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10	4	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10	4
COMPONENT CERTIFICATION (SEE NOTE 6)	NOT REQUIRED	5	REQUIRED	5

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS LOCATED AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
4. RESTRAINT IS NOT REQUIRED IF THE PIPING / DUCTWORK IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
5. ALL DUCTWORK , REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
6. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
SOUTH CAROLINA DWG, INC. CONSULTING ENGINEERS No.C03649 CERTIFICATE OF AUTHORIZATION

A/E SEAL
SOUTH CAROLINA No. 30241 7/25/2023 WILLIAM DEAN BILLARD, II

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

REVISIONS

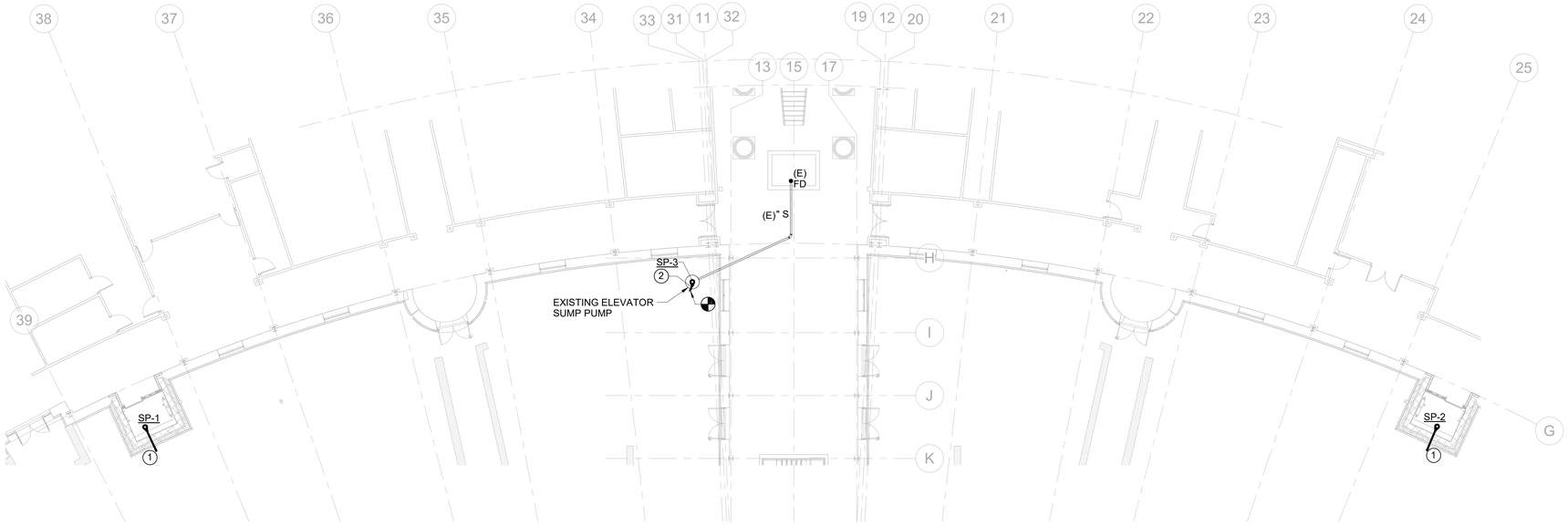
NO.	NAME	DATE

DRAWN BY: MAC
CHECKED BY: WMB

DRAWING TITLE
PLUMBING NOTES & LEGENDS

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. PE001

7/25/2023 4:59:11 PM

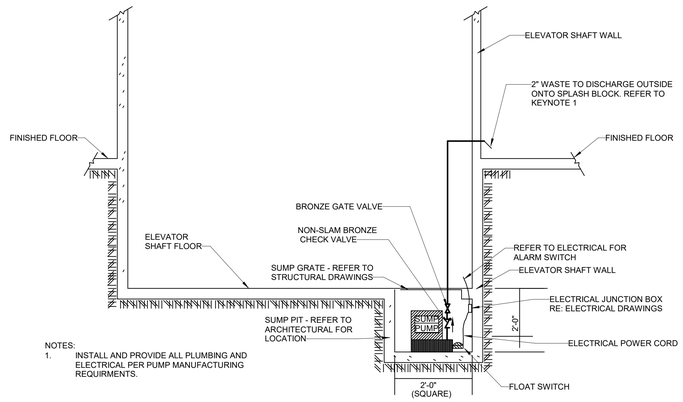


1 PE101 FIRST FLOOR SANITARY & VENT PLAN
SCALE: 3/32" = 1'-0"

SUMP PUMP SCHEDULE

MARK	MAX. GPM	HEAD FT W.G.	MOTOR HP	MAX. RPM	MANUFACTURER	MODEL
SP-1	50	21.0	1/2	1750	WEIL	1411-OSS
SP-2	50	21.0	1/2	1750	WEIL	1411-OSS
SP-3	50	21.0	1/2	1750	WEIL	1411-OSS

NOTES:
1. ELEVATOR SUMP PUMP WITH OIL SENSING TECHNOLOGY. SEE ELECTRICAL DRAWINGS FOR CONTROLLER LOCATION. PUMP CONTROLLER SHALL BE CAPABLE OF PUMP SHUTDOWN UPON DETECTION OF OIL/HYDRAULIC FLUID.
2. SEE ELECTRICAL DRAWINGS FOR VOLTAGE REQUIREMENTS.
3. INSTALL PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
4. PROVIDE WITH LOCAL AND REMOTE AUDIO AND VISUAL WARNING ALARMS.
5. ACCEPTABLE MANUFACTURER'S, CONTINGENT UPON COMPLIANCE WITH THE CONTRACT DOCUMENTS ARE AS FOLLOWS: WEIL, STANCOR, LIBERTY, BELL & GOSSETT/XYLEM. EQUAL PRODUCTS BY OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED SUBSTITUTIONS ARE SUBMITTED AND APPROVED BY THE A/E.



NOTES:
1. INSTALL AND PROVIDE ALL PLUMBING AND ELECTRICAL PER PUMP MANUFACTURING REQUIRMENTS.

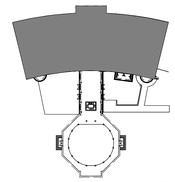
2 PE101 SUMP PUMP INSTALLATION DETAIL
SCALE: NOT TO SCALE

RENOVATION KEYNOTES

1. 2" ELEVATOR DISCHARGE SHALL TERMINATE 1'-0" AFG WITH DOWNTURNED 45° ELBOW AND CONCRETE SPLASHBLOCK.
2. REPLACE EXISTING SUMP PUMP WITHIN THE EXTERIOR SUMP PUMP PIT. CONNECT DISCHARGE PIPING TO EXISTING PIPING. ENSURE EXISTING PIPING IS ADEQUATE FORE REUSE. CAMERA ALL EXISTING PIPING AND NOTIFY A/E OF ANY SAGS, CRACKS AND OR BLOCKAGES WITHIN THE PIPING SYSTEM.

GENERAL NOTES

KEYPLAN



DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
803.212.1032 p / 803.212.1074 f
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202

A/E SEAL
SOUTH CAROLINA
DWG, INC.
CONSULTING ENGINEERS
No.C03649
CERTIFICATE OF AUTHORIZATION

A/E SEAL
SOUTH CAROLINA
No. 31474
7/25/2023
WILLIAM DEAN BILLARD

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

REVISIONS

NO.	NAME	DATE

DRAWN BY: MAC
CHECKED BY: WNB

DRAWING TITLE
FIRST FLOOR SANITARY & VENT PLAN

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. **PE101**

7/25/2023 4:59:14 PM

ELECTRICAL SYSTEMS
SEISMIC REQUIREMENTS
PER IBC-2021/ASCE 7-16

A. PER THE 2021 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-16.

B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTER 26 TO 29 OF ASCE 7-16.

C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.

D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

E. USE THE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.

F. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL REGISTERED IN THE STATE THE JOB IS LOCATED. SUBMITTALS MUST INCLUDE STAMPED AND SIGNED DRAWINGS AND CALCULATIONS.

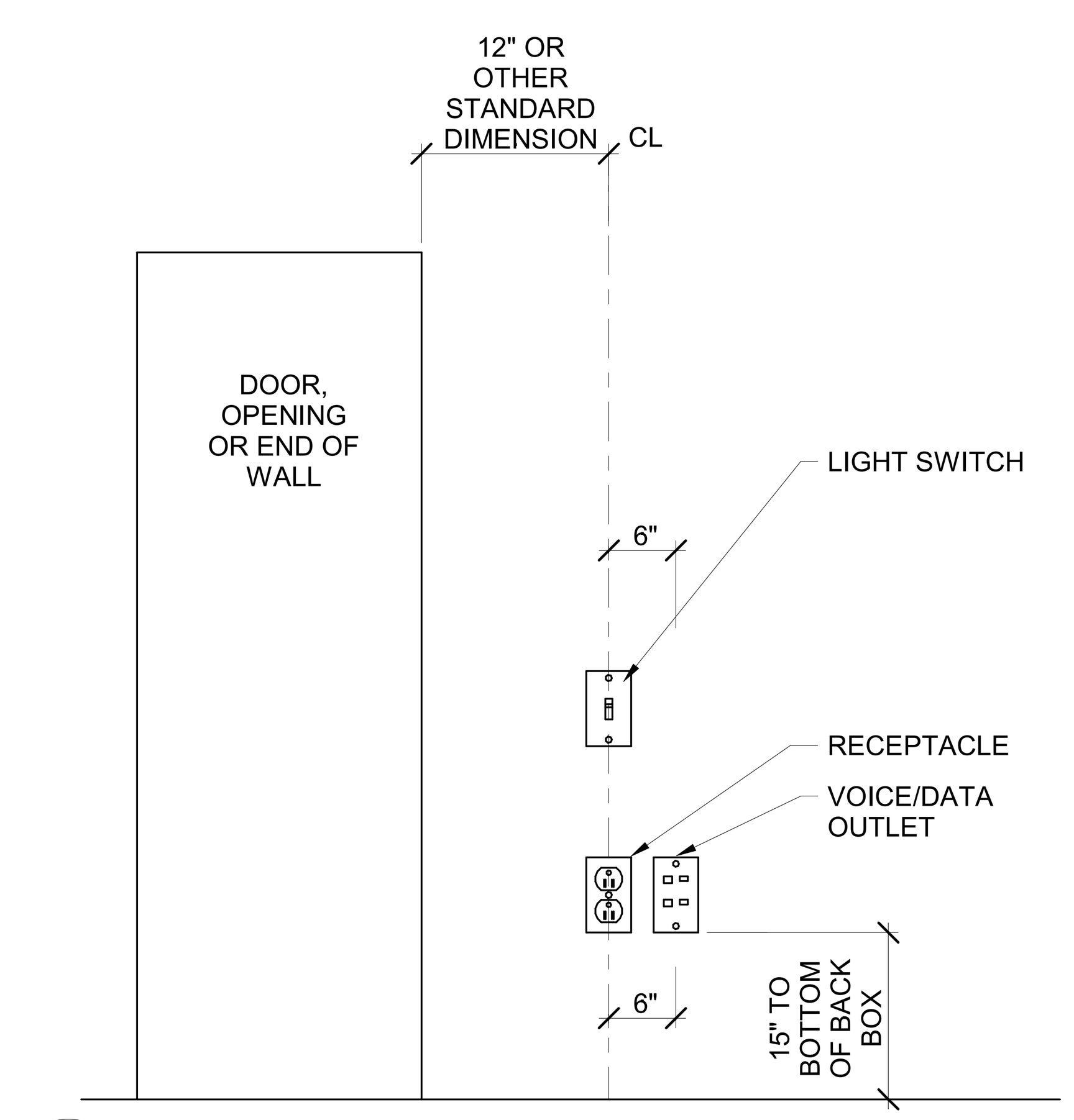
G. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAL.

H. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAYS AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

ELECTRICAL COMPONENT IMPORTANCE FACTOR (Ip) DESIGNATION	
Ip = 1.0	Ip = 1.5
• ALL ASSOCIATED ELECTRICAL WORK UNLESS NOTED OTHERWISE	• FIRE ALARM

SEISMIC DESIGN CATEGORIES D,E,F				
	COMPONENT IMPORTANCE FACTOR (Ip)			
	1.0		1.5	
COMPONENT IDENTIFICATION	SEISMIC RESTRAINT REQUIREMENT	NOTES	SEISMIC RESTRAINT REQUIREMENT	NOTES
ROOF MOUNTED	RESTRAIN ALL	1	RESTRAIN ALL	-
FLOOR MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-
WALL MOUNTED	RESTRAIN ALL	1,2	RESTRAIN ALL	-
COMPONENT SUPPORTS	RESTRAIN ALL	1	RESTRAIN ALL	-
SUSPENDED EQUIPMENT	RESTRAIN ALL	1	RESTRAIN ALL	-
SINGLE CONDUIT	RESTRAIN IF ≥ 2.5"	3	RESTRAIN IF ≥ 2.5"	3
CABLE TRAY/BUS DUCT TRAPEZED CONDUIT	DO NOT DELETE ON TRAPEZE ≥ 2.5". RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	3	RESTRAIN IF ANY CONDUIT ON TRAPEZE ≥ 2.5". RESTRAIN IF TOTAL WEIGHT OF SUSPENDED COMPONENT > 10 LBS/FT	3
COMPONENT CERTIFICATION	NOT REQUIRED	-	REQUIRED	5
PENDANT, LAY-IN AND CAN LIGHTS	REQUIRED	4	REQUIRED	4

NOTES:
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER MASS AT 4' OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
3. RESTRAINT IS NOT REQUIRED IF THE CONDUIT IS SUPPORTED BY HANGERS AND EACH HANGER IN THE RUN IS 12" IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12" IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
4. THE RESTRAINT OF PENDANT, LAY-IN AND CAN LIGHTS IS ADDRESSED IN ASTM C636 AND E580.
5. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.



1 DEVICE ALIGNMENT DETAIL
EE001 NOT TO SCALE

GENERAL ELECTRICAL NOTES

1. BRANCH CIRCUIT WIRING FOR 20A CIRCUITS SHALL BE SIZED PER WIRE SIZING CHART. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES IN OUTLET BOXES IS NOT REQUIRED TO BE LARGER THAN #12.
2. MINOR ADJUSTMENTS IN DEVICE LOCATION, SUCH AS 5'-0" IN ANY DIRECTION, SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
3. RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION, ABOVE CEILINGS, BELOW FLOOR AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. EXPOSED RACEWAYS MAY BE USED IN UNFINISHED SPACES, WHERE EXPLICITLY NOTED ON PLANS AND WHERE APPROVED BY THE ARCHITECT AND ENGINEER. LAY OUT EXPOSED RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
4. FEEDER CONDUITS AND BRANCH CIRCUITS ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS AND SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION. FEEDER CONDUITS AND BRANCH CIRCUITS SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
5. A FIRESTOP SYSTEM SHALL BE USED TO SEAL ALL PENETRATIONS OF ELECTRICAL CONDUITS AND CABLES THROUGH FIRE-RATED PARTITIONS. THE FIRESTOP SYSTEM SHALL CONSIST OF A FIRE-RATED CAULK TYPE SUBSTANCE AND HIGH TEMPERATURE FIBER INSULATION BY STI OR APPROVED EQUAL. ONLY METAL CONDUIT SHALL BE USED TO PENETRATE FIRE-RATED PARTITIONS. SEE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF FIRE-RATED WALLS.
6. THE USE OF MC CABLE IS NOT ALLOWED, UNLESS NOTED OTHERWISE.
7. PROVIDE A LISTED EXPANSION/DEFLECTION FITTING FOR ALL CONDUIT CROSSING EXPANSION JOINTS PER NEC 300.4.H. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXPANSION JOINTS.
8. WHEREVER THE WORD "PROVIDE" IS USED ON THE ELECTRICAL DRAWINGS, IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL", UNLESS NOTED OTHERWISE.
9. THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING: 1 - A COMMON NEUTRAL MAY BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS ONLY IF A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT OF ORIGIN IS PROVIDED PER NEC 210.4.B. 2 - MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS AND 1 GROUND) RATED FOR 30A OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DE-RATING CONDUCTORS PER NEC 310.15. 3 - A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
10. REFER TO THE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING.

GENERAL LIGHTING NOTES

1. EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL SPACES SHALL BE DETERMINED IN THE FIELD. DO NOT SUPPORT FIXTURES FROM DUCT OR PIPING. PROVIDE CHAIN OR TRAPEZE-TYPE HANGERS WHERE FIXTURES CANNOT BE MOUNTED DIRECTLY TO CEILING.
2. LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.

GENERAL DEMOLITION NOTES

1. ALL ELECTRICAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIALS UNTIL RELEASED BY THE OWNER'S PROJECT MANAGER. MATERIALS THAT THE OWNER'S PROJECT MANAGER CHOOSES TO RETAIN SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE PROJECT MANAGER. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

GENERAL LOW VOLTAGE NOTES

1. PROVIDE SLEEVES SIZED FOR 40% EXPANSION THROUGH CORRIDOR WALLS.
2. ALL COMMUNICATION DROPS SHALL BE UNSPLICED HOME RUNS FROM DEVICE PLATE TO THE COMMUNICATION RACK LOCATION. PROVIDE 10 FEET OF COILED CABLE AT RACK LOCATION FOR OWNER'S USE.
3. SUPPORT CABLES WITH J-HOOKS. J-HOOKS SHALL BE PROVIDED AT INTERVALS LESS THAN 5 FEET. PROVIDE METAL SLEEVES FOR ALL WALL PENETRATIONS. DO NOT SUPPORT CABLES FROM STRUCTURE. SEAL ALL FIRE RATED WALL PENETRATIONS, REFER TO ARCHITECTURAL SPECIFICATIONS AND DRAWINGS FOR LOCATIONS AND REQUIREMENTS.
4. ALL COMMUNICATION CABLING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND EIA/TIA STANDARDS.
5. CABLE SHALL BE CONCEALED IN ALL FINISHED AREAS AND ROUTED PARALLEL OR PERPENDICULAR TO THE BUILDING STRUCTURE.
6. LOW VOLTAGE INSTALLATION WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND HAS BEEN INCLUDED ON DRAWINGS FOR REFERENCE AND COORDINATION PURPOSES. BOXES, CONDUIT AND RECEPTACLES FOR IT EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

GENERAL ELEVATOR NOTES

1. PROVIDE ALL FIRE ALARM SYSTEM INTERLOCKS REQUIRED FOR ELEVATOR INCLUDING BUT NOT LIMITED TO THE FOLLOWING: 1 - SMOKE DETECTORS IN ELEVATOR LOBBIES SHALL BE ON INDIVIDUAL ZONES AND SHALL BE INTERLOCKED WITH THE ELEVATOR CONTROLLER. 2 - SMOKE DETECTORS IN THE ELEVATOR SHAFT SHALL BE INTERLOCKED WITH THE ELEVATOR CONTROLLER TO RECALL THE ELEVATOR CAB TO THE LOWEST FLOOR WHERE THE ELEVATOR LOBBY SMOKE DETECTOR IS NOT IN ALARM.
2. EXTEND (1) 3/4" CONDUIT FROM THE TELECOMMUNICATIONS BONDING BACKBONE TO THE ELEVATOR CONTROLLER AND THE ELEVATOR CAB.

GENERAL EXISTING CONDITION NOTES

1. AREAS OF WORK EXIST FOR THIS PROJECT WHICH WERE NOT ACCESSIBLE OR HAD LIMITED ACCESS DURING DESIGN. AS SUCH, CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK BEFORE DEMOLITION OF ANY SERVICE. ANY ELECTRICAL COMPONENTS NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO ELECTRICAL REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER. WHERE INFORMATION SHOWN ON THESE DRAWINGS CONFLICTS WITH VERIFIED FIELD CONDITIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
2. IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REPLACED, THE CONTRACTOR SHALL WORK THROUGH THE EXISTING CEILINGS (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK. ALL WORK PERFORMED ABOVE EXISTING CEILINGS SHALL BE PERFORMED AFTER HOURS AND SCHEDULED WITH THE OWNER IN ADVANCE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A FIRESTOP SYSTEM IN ALL PENETRATIONS OF FIRE-RATED FLOORS AND WALLS CREATED BY THE REMOVAL OF EXISTING ELECTRICAL CONDUIT OR CABLES, AS WELL AS THOSE CREATED BY NEWLY INSTALLED CONDUITS AND SLEEVES.
4. WHERE INSTALLATION REQUIRES CUTTING OR DRILLING OF THE EXISTING FLOOR SLAB, THE CONTRACTOR SHALL X-RAY THE EXISTING SLAB PRIOR TO WORK TO ENSURE THAT NO EXISTING UTILITIES OR STRUCTURAL ELEMENTS IN THE SLAB WILL BE COMPROMISED BY THE WORK. NOTIFY THE A/E OF ANY CONFLICTS THAT WILL REQUIRE RELOCATING THE PROPOSED SLAB WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES OR STRUCTURAL ELEMENTS CAUSED BY THE SLAB DEMOLITION.

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DWG, INC. CONSULTING ENGINEERS No.C03649

A/E SEAL
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 39922 MAXWELL SIM 07/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

REVISIONS		
NO.	NAME	DATE

DRAWN BY: EMB
CHECKED BY: MHS

DRAWING TITLE
ELECTRICAL NOTES

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. EE001

7/25/2023 6:48:27 PM

ELECTRICAL CODES AND STANDARDS (WITH ALL SOUTH CAROLINA MODIFICATIONS)

CODE	DESCRIPTION
IBC (2021)	INTERNATIONAL BUILDING CODE
IECC (2009)	INTERNATIONAL ENERGY CONSERVATION CODE
IFC (2021)	INTERNATIONAL FIRE CODE
NFPA 70 (2020)	NATIONAL ELECTRICAL CODE
NFPA 72 (2016)	NATIONAL FIRE ALARM AND SIGNALING CODE

LIGHTING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	STRIP LIGHT FIXTURE	$	LIGHT SWITCH, SINGLE POLE

POWER AND TELECOMMUNICATIONS SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
X	DUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE		1-DROP COMMUNICATION OUTLET
X	GFCI DUPLEX RECEPTACLE "X" INDICATES RECEPTACLE TYPE		2-DROP COMMUNICATION OUTLET
X	JUNCTION BOX (WALL MOUNTED) "X" INDICATES JUNCTION BOX TYPE		4-DROP COMMUNICATION OUTLET
$X	CONTROL SWITCH, "X" INDICATES SWITCH TYPE	CBB	COMMUNICATIONS BACKBOARD
SPD	SURGE PROTECTION DEVICE		TRANSFORMER
M	METER		
	DISCONNECT SWITCH (FUSIBLE OR NON-FUSIBLE)		PANELBOARD - BRANCH, SURFACE MOUNTED
	SWITCHBOARD		PANELBOARD - DISTRIBUTION, SURFACE MOUNTED

SYSTEMS SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SD	SMOKE DETECTOR (CEILING & JUNCTION BOX MOUNTED)	C	SECURITY CAMERA (WALL MOUNTED)
X	CONTROL PANEL, "X" INDICATES TYPE	TWC	TWO WAY COMMUNICATION BASE

ELECTRICAL ABBREVIATIONS

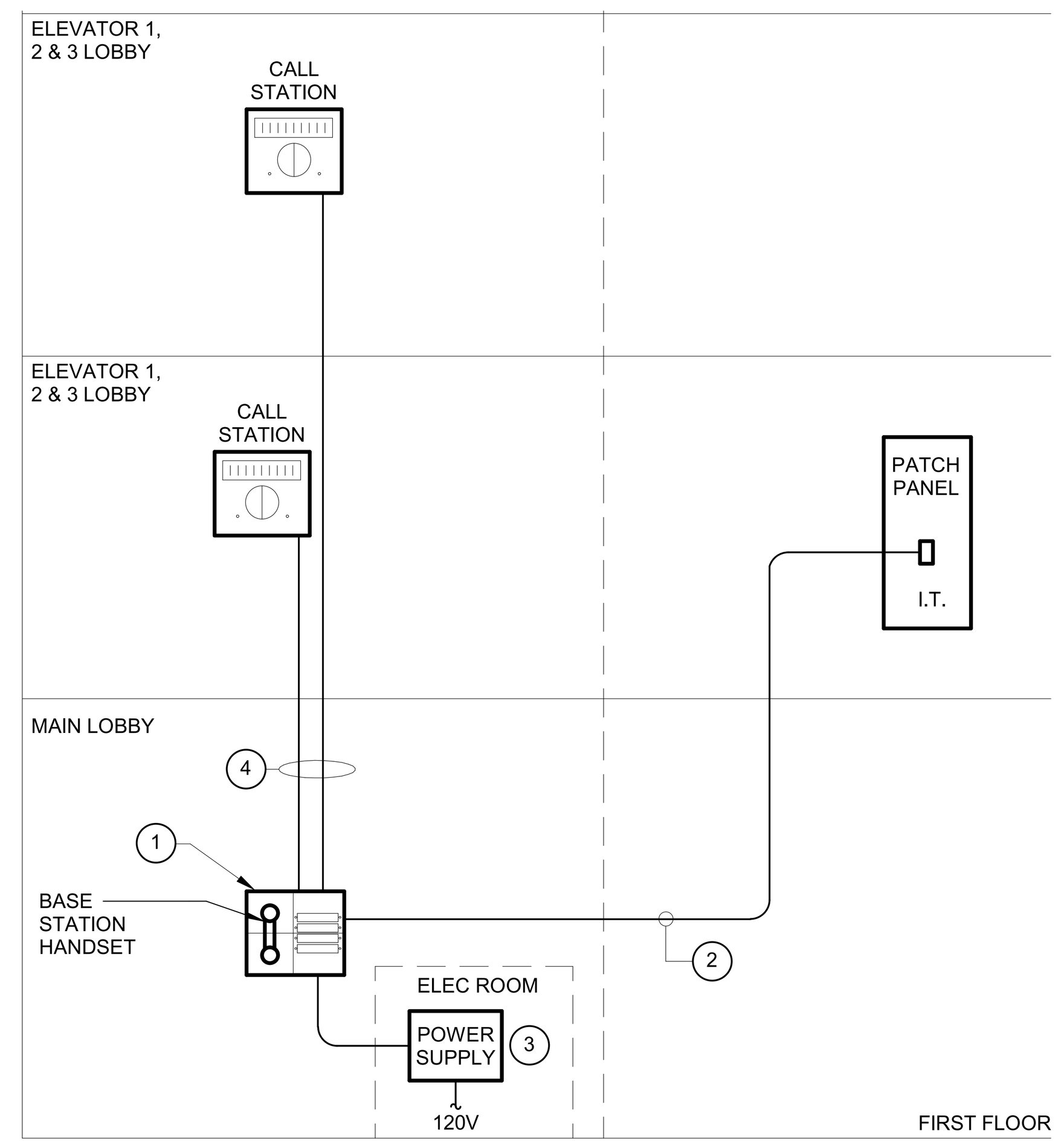
ABBR	DESCRIPTION
(E)	EXISTING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BOD	BOTTOM OF DEVICE
CBB	COMMUNICATIONS BACKBOARD
cd	CANDELA
CLG	CEILING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
FACP	FIRE ALARM CONTROL PANEL
FDS	FUSED DISCONNECT SWITCH
GFCI	GROUND-FAULT CIRCUIT-INTERRUPTING
GFI	GROUND-FAULT INTERRUPTING
GP	GENERAL PURPOSE
J-BOX	JUNCTION BOX
KW	KILOWATTS
NEC	NATIONAL ELECTRICAL CODE
NFDS	NON-FUSED DISCONNECT SWITCH
SPD	SURGE PROTECTION DEVICE
UNO	UNLESS NOTED OTHERWISE
W/	WITH
XFMR	TRANSFORMER
CONTROL PANELS	**DESCRIPTION**
FACP	FIRE ALARM CONTROL PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT
VECP	VOICE EVACUATION CONTROL PANEL
RECEPTACLE	**DESCRIPTION**
SP	SUMP PUMP

LINE LEGEND

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
------	DEMOLISH

WIRE SIZING CHART 20 AMP BRANCH CIRCUITS

DISTANCE, 120V	MINIMUM WIRE SIZE
0 - 90 FEET	#12 AWG
90 - 230 FEET	#10 AWG
230 - 446 FEET	#8 AWG
DISTANCE, 277V	**MINIMUM WIRE SIZE**
0 - 209 FEET	#12 AWG
209 - 533 FEET	#10 AWG
533 - 1033 FEET	#8 AWG



1 EE002 PARTIAL TWO WAY COMM RISER
NOT TO SCALE

TWO-WAY COMMUNICATION SINGLE-LINE NOTES

1. PROVIDE ALL REQUIRED PROGRAMMING, SIGNAGE, DIRECTIONS, AND HARDWARE AS REQUIRED. MOUNT BASE STATION IN ENCLOSED RECESSED CABINET.
2. PROVIDE ONE CAT-6 CABLE IN 1" EMT TO THE NEAREST DATA CLOSET AND TERMINATION ON PATCH PANEL IN THE RACK
3. PROVIDE SURGE PROTECTIVE DEVICES FOR ALL INCOMING POWER CONNECTIONS TO BASE STATION, POWER SUPPLY, AND BATTERY SYSTEM.
4. PROVIDE 3/4" CONDUIT AND COMMUNICATION CABLING BETWEEN BASE AND REMOTE STATIONS.

TWO-WAY COMMUNICATION SYSTEM GENERAL NOTES

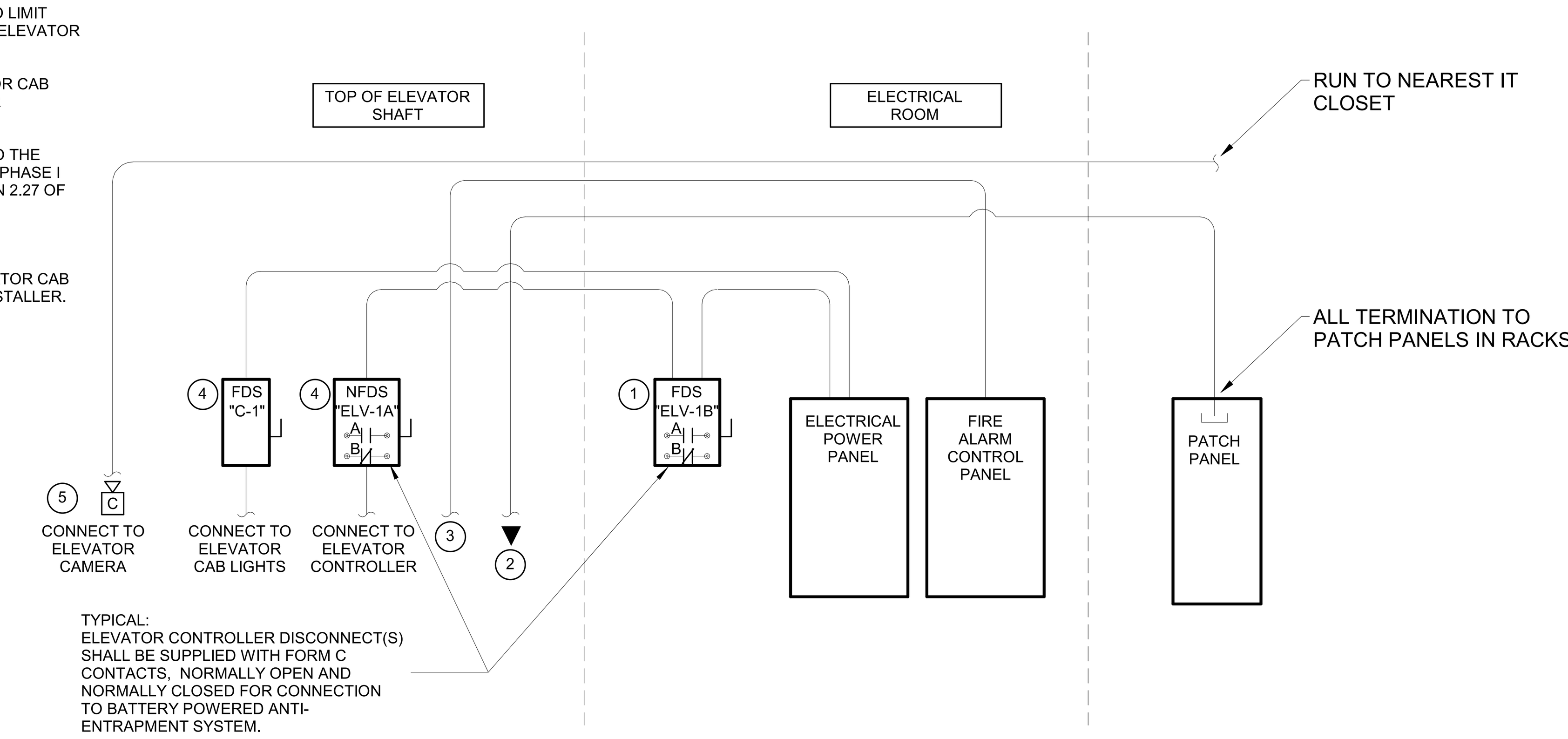
1. SEE FLOOR PLANS FOR INTENDED LOCATIONS OF BASE STATION AND CALL STATIONS.
2. SYSTEM SHALL CONNECT TO PHONE LINE TO AUTOMATICALLY CALL MONITORING COMPANY AFTER RESPONSE TIME-OUT. TELEPHONE(S) TO BE PROGRAMMED TO CALL 843-349-2911.
3. SYSTEM SHALL INCLUDE BATTERY BACKUP WITH 2 HOURS OF COMMUNICATION TIME AFTER 24 HOURS OF STANDBY.
4. THE LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT. THIS INFORMATION SHALL INCLUDE THE PANELBOARD AND CIRCUIT BREAKER SERVING THE BASE STATION, AS WELL AS THE ROOM WHERE THE PANELBOARD IS LOCATED.
5. TRAVEL 4 PAIRS OF CAT6 CABLE TO CAMERA.

ELEVATOR GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AS REQUIRED BY ELEVATOR CONTRACTOR FOR INSTALLATION OF ELEVATOR EQUIPMENT. THIS INCLUDES NECESSARY THREE PHASE POWER OF SAME CHARACTERISTICS AS THE PERMANENT POWER TO THE ELEVATOR, AND POWER FOR OPERATING WORK LIGHTS, HOISTS, DRILLS, ETC.

ELEVATOR KEYED NOTES

1. PROVIDE FUSED DISCONNECT WITH CURRENT LIMITING FUSES TO LIMIT AVAILABLE FAULT CURRENT AT ELEVATOR CONTROLLER TO THE ELEVATOR CONTROLLER RATED FAULT CURRENT.
2. PROVIDE VOICE CIRCUIT AND CABLING TO EACH OF THE ELEVATOR CAB TELEPHONES. COORDINATE CONNECTION POINT WITH ELEVATOR INSTALLER.
3. PROVIDE SEPARATE OUTPUTS FROM THE FIRE ALARM SYSTEM TO THE ELEVATOR CONTROLLER(S) IN ORDER TO IMPLEMENT ELEVATOR PHASE I EMERGENCY RECALL OPERATION IN ACCORDANCE WITH SECTION 2.27 OF ASME A17.1 AND AS REQUIRED IN 6.16.3.12 OF NFPA 72.
4. DISCONNECT SWITCH FOR LOCAL POWER DISCONNECT.
5. PROVIDE 4-TWISTED PAIR CAT 6 CABLING TO EACH OF THE ELEVATOR CAB CAMERAS. COORDINATE CONNECTION POINT WITH ELEVATOR INSTALLER.



2 EE002 MACHINE ROOM-LESS (MLR) ELEVATOR POWER AND SYSTEMS SINGLE LINE DIAGRAM
NOT TO SCALE

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVIN DESIGN GROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL: SOUTH CAROLINA DWG, INC. CONSULTING ENGINEERS No.C03649 CERTIFICATE OF AUTHORIZATION

A/E SEAL: SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 39922 MAXWELL SIMS 7/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

REVISIONS		
NO.	NAME	DATE

DRAWN BY: EMB
CHECKED BY: MHS

DRAWING TITLE
ELECTRICAL LEGENDS

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. EE002

7/25/2023 6:48:28 PM

LIGHT FIXTURE SCHEDULE

FIXTURE SPECIFICATIONS				LAMPING				ELECTRICAL			
TYPE	FIXTURE DESCRIPTION	MANUFACTURER	CAT. #	NO.	LAMP TYPE	TOTAL LUMENS	COLOR TEMP.	LOAD (VA)	VOLTS	FIXTURE MOUNTING	NOTES
J1	4' STRIP	LITHONIA	CSS L48 4000LM MVOLT 40K 80CRI 0	1	LED	4298	4000 K	35	120 V	CEILING	

LIGHT FIXTURE PLAN KEY

A1
A:2

A1 = UPPERCASE LETTER / NUMBER INDICATE FIXTURE TYPE

A:2 = DESIGNATES PANEL NAME: CIRCUIT NUMBER

EQUIPMENT CONNECTION SCHEDULE

UNIT I.D.	VOLTS	# OF POLES	LOAD (VA)	BRANCH CIRCUIT WIRING	DISCONNECT / STARTER	NOTES
ELEV-1	480 V	3	20000	3#3, 1#8G, 1-1/2"C	FUSED 100/FUSE/3/1	1
ELEV-2A	480 V	3	20000	3#3, 1#8G, 1-1/2"C	FUSED 100/FUSE/3/1	1
ELEV-2B	480 V	3	20000	3#3, 1#8G, 1-1/2"C	FUSED 100/FUSE/3/1	1
SUMP PUMP						
SP-1	120 V	1	1176	2#12, 1#12G, 3/4"C	GFCI DUPLEX RECEPTACLE	
SP-2	120 V	1	1176	2#12, 1#12G, 3/4"C	GFCI DUPLEX RECEPTACLE	
SP-3	120 V	1	1176	2#12, 1#12G, 3/4"C	GFCI DUPLEX RECEPTACLE	

EQUIPMENT CONNECTION SCHEDULE NOTES:

1. COORDINATE FUSE SIZE WITH ELEVATOR SHOP DRAWINGS.

PANELBOARD SCHEDULE

PANEL NAME: 1H5 — **VOLTS:** 480/277 Wye — **A.I.C. RATING:** 22000
LOCATION: MAIN ELECTRICAL ROOM — **PHASES:** 3 — **MAINS RATING:** 400 A
SOURCE: MSB — **WIRES:** 4 — **MAINS TYPE:** MAIN CIRCUIT BREAKER
MOUNTING: SURFACE — **ENCLOSURE:** TYPE 1

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1				6670 VA / 6670 VA						2
3	ELEVATOR 2A	100 A	3		6670 VA / 6670 VA		3	100 A	ELEVATOR 2B	4
5						6670 VA / 6670 VA				6
7				0 VA / 0 VA						8
9	PREPARED SPACE	--	3		0 VA / 0 VA		3	--	PREPARED SPACE	10
11						0 VA / 0 VA				12
13				0 VA / 0 VA						14
15	PREPARED SPACE	--	3		0 VA / 0 VA		3	--	PREPARED SPACE	16
17						0 VA / 0 VA				18
	TOTAL PHASE LOAD:			13330 VA	13333	13333				
	TOTAL PHASE CURRENT:			48 A	48 A	48 A				
	PANEL TOTALS									
	TOTAL CONNECTED LOAD: 40000									
	TOTAL CONNECTED CURRENT: 48 A									

EXISTING PANELBOARD SCHEDULE

PANEL NAME: 1H2 (E) — **VOLTS:** 480/277 Wye — **A.I.C. RATING:** EXISTING
LOCATION: EXISTING — **PHASES:** 3 — **MAINS RATING:** 400 A
SOURCE: EXISTING — **WIRES:** 4 — **MAINS TYPE:** MAIN LUGS ONLY
MOUNTING: RECESSED — **ENCLOSURE:** TYPE 1

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	(E) LTS-BATH 113, ROOM 117	20 A	1	0 VA / 0 VA			1	20 A	(E) LTS OUTSIDE ENTRY	2
3	(E) LTS-ROOM 118, 111	20 A	1		0 VA / 0 VA		1	20 A	(E) LTS BATH 115-OUTS 114	4
5	(E) 3RD FLOOR LEVEL #4 STAIR	20 A	1			0 VA / 0 VA	1	20 A	(E) SPARE	6
7				0 VA / 0 VA						8
9	(E) AHU-1	20 A	3		0 VA / 0 VA		3	20 A	(E) AHU-2	10
11						0 VA / 0 VA				12
13				0 VA / 0 VA						14
15	(E) PANEL OLH CONTRACTOR	30 A	3		0 VA / 0 VA		3	20 A	(E) TRANSFORMER 1L4	16
17						0 VA / 0 VA				18
19				6670 VA / 0 VA			1	--	PREPARED SPACE	20
1. → 21	ELEVATOR 1	100 A	3		6670 VA / 0 VA		1	--	PREPARED SPACE	22
23						6670 VA / 0 VA	1	--	PREPARED SPACE	24
	TOTAL PHASE LOAD:			6670 VA	6667	6667				
	TOTAL PHASE CURRENT:			24 A	24 A	24 A				
	PANEL TOTALS									
	TOTAL ADDITIONAL LOAD: 20000 VA									
	TOTAL ADDITIONAL CURRENT: 24 A									

EXISTING PANELBOARD SCHEDULE

PANEL NAME: 1L4 (E) — **VOLTS:** 120/208 Wye — **A.I.C. RATING:** EXISTING
LOCATION: EXISTING — **PHASES:** 3 — **MAINS RATING:** 100 A
SOURCE: EXISTING — **WIRES:** 4 — **MAINS TYPE:** MAIN LUGS ONLY
MOUNTING: RECESSED — **ENCLOSURE:** TYPE 1

CKT NO.	CIRCUIT DESIGNATION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESIGNATION	CKT NO.
1	(E) REC ROOM 117	20 A	1	0 VA / 0 VA			1	20 A	(E) REC ROOM 121	2
3	(E) REC ROOM 118	20 A	1		0 VA / 0 VA		1	20 A	(E) REC ROOM 112, 118, 113	4
5	(E) REC VE 103	20 A	1			0 VA / 0 VA	1	20 A	(E) REC ROOM 110	6
7	(E) REC OUTSIDE 101	20 A	1	0 VA / 0 VA			1	20 A	(E) REC ROOM 109	8
9	(E)REC ELEV. LOBBY ROOM 114	20 A	1		0 VA / 100 VA		1	20 A	ELEVATOR CONTROL	10 → 1.
11	(E) WATERCOOLER ROOM 114	20 A	1			0 VA / 1080 VA	1	20 A	RCPT - ELEVATOR PIT & SHAFT	12 → 1.
13	(E) CAN LIGHTS ROOM 118	20 A	1	0 VA / 0 VA			1	20 A	(E) TRACK LIGHTS AT ELEVATOR	14
15	(E) CAN LIGHTS ROOM 118	20 A	1		0 VA / 0 VA		1	20 A	(E) CHANDALIER ENTRY 103	16
17	(E) ENTRY 103 TRACK LIGHTS	20 A	1			0 VA / 1330 VA	1	20 A	SUMP PUMP 3 & PHOTCELL	18 → 1.
19				0 VA / 0 VA			1	20 A	(E) REC 110	20
21	(E) MAIN	100 A	3		0 VA / 0 VA		1	20 A	(E) REC 110	22
23						0 VA / 0 VA	1	20 A	(E) REC 110	24
25	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	26
27	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	28
29	SPARE	20 A	1			0 VA / 0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA / 0 VA			1	20 A	SPARE	32
33	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	34
1. → 35	LTG - ELEVATOR PIT & SHAFT	20 A	1			420 VA / 0 VA	1	20 A	SPARE	36
37	SUMP PUMP 1	20 A	1	1330 VA / 1330 VA			1	20 A	SUMP PUMP 2	38 → 1.
39	SPARE	20 A	1		0 VA / 0 VA		1	20 A	SPARE	40
1. → 41	ELEVATOR 2A CAB LIGHS &...	20 A	1			100 VA / 100 VA	1	20 A	ELEVATOR 2B CAB LIGHS &...	42 → 1.
	TOTAL PHASE LOAD:			2660 VA	100	2880				
	TOTAL PHASE CURRENT:			25 A	1 A	27 A				
	PANEL TOTALS									
	TOTAL ADDITIONAL LOAD: 5540 VA									
	TOTAL ADDITIONAL CURRENT: 15 A									

PANEL SCHEDULE NOTES:

1. RE-USE EXISTING BREAKER FOR NEW LOAD.

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
1209 Lincoln Street Columbia, SC 29202
P.O. Box 18 803.212.1032 p / 803.212.1074 f

A/E SEAL

SOUTH CAROLINA
DWG, INC.
CONSULTING ENGINEERS
No.C03649
CERTIFICATE OF AUTHORIZATION

A/E SEAL

SOUTH CAROLINA
No. 39922
REGISTERED PROFESSIONAL ENGINEER
MAXWELL SIRA
7/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

REVISIONS

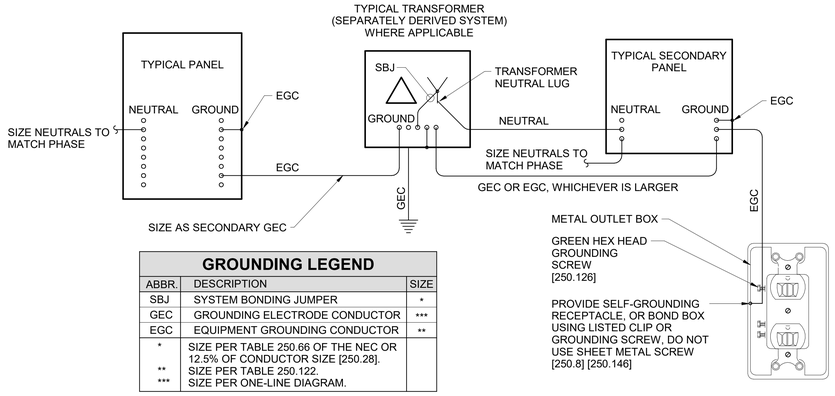
NO.	NAME	DATE

DRAWN BY: EMB
CHECKED BY: MHS

DRAWING TITLE
ELECTRICAL SCHEDULES & DETAILS

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. **EE003**

7/25/2023 6:48:30 PM



GROUNDING LEGEND

ABBR.	DESCRIPTION	SIZE
SBJ	SYSTEM BONDING JUMPER	*
GEC	GROUNDING ELECTRODE CONDUCTOR	***
EGC	EQUIPMENT GROUNDING CONDUCTOR	**
*	SIZE PER TABLE 250.66 OF THE NEC OR 12.5% OF CONDUCTOR SIZE [250.28].	
**	SIZE PER TABLE 250.122.	
***	SIZE PER ONE-LINE DIAGRAM.	

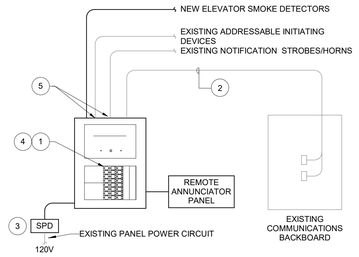
GROUNDING NOTES:

1. NUMBERS IN BRACKETS REFER TO SPECIFIC SECTIONS OF THE NATIONAL ELECTRICAL CODE.
2. ALL UNDERGROUND OR OTHERWISE INACCESSIBLE GROUND CONNECTIONS AND SPLICES SHALL BE EXOTHERMICALLY WELDED [250.68].
3. GROUND ELECTRODE FOR SEPARATELY DERIVED SYSTEMS SHALL BE THE NEAREST METAL WATER PIPE OR STRUCTURAL METAL. IF EITHER IS NOT AVAILABLE, PROVIDE GROUNDING CONDUCTOR BACK TO MAIN GROUND BUS AT SERVICE ENTRANCE.
4. PROVIDE A GROUND WIRE IN ALL CONDUITS.
5. EARTH SHALL NOT BE USED AS THE SOLE GROUND RETURN PATH FOR ANY EQUIPMENT POWERED UNDER THIS PROJECT. OTHERWISE OVERCURRENT PROTECTION MIGHT NOT WORK, OR IT MIGHT CAUSE POWER QUALITY PROBLEMS.
6. NO ALUMINUM SHALL BE USED FOR GROUNDING WORK WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE ENGINEER. EXCEPTION: ALUMINUM BUILDING STRUCTURAL MATERIALS SHALL BE BONDED WITH LISTED ALUMINUM EQUIPMENT WITH ALUMINUM TO COPPER CONNECTORS FOR ROUTING COPPER EGC'S.
7. ALL METAL ENCLOSURES AND RACEWAYS SHALL BE BONDED TO GROUND [250.86]. FOR CIRCUITS OVER 250V PROVIDE BOND PER [250.97]. STANDARD LOCKNUTS ARE NOT ACCEPTABLE.
8. PROVIDE EGC CONNECTED TO ANY JUNCTION BOX WHERE SPLICE IS MADE [250.148].
9. PROVIDE BOND TO EXPOSED METAL ON ALL MOTORS, PUMPS, AND LIGHTING FIXTURES PER [250.112].

1 / EE010 GROUNDING DETAIL
NOT TO SCALE

FIRE ALARM SINGLE-LINE NOTES

1. SECONDARY NETWORK PANELS SHALL SUPPORT INITIATION AND NOTIFICATION DEVICES ON SAME FLOOR.
2. EXISTING COMMUNICATION CABLING PREVIOUSLY SERVING REMOVED FIRE ALARM PANEL. RE-USE CABLING FOR NEW FIRE ALARM PANEL.
3. PROVIDE SURGE PROTECTIVE DEVICES FOR ALL INCOMING POWER CONNECTIONS TO FIRE ALARM CONTROL PANELS, POWER SUPPLIES, AND BATTERY SYSTEMS.
4. REPLACE EXISTING EDWARDS FIRE ALARM PANEL WITH ONE COMPATIBLE WITH EXISTING DEVICES AND CAN SUPPORT THE ADDITIONAL ELEVATORS ADDED IN THIS PROJECT. PROVIDE ALL REQUIRED PROGRAMMING, MODIFICATIONS, SOFTWARE, AND HARDWARE AS REQUIRED AT THE NEW FIRE ALARM SYSTEM.
5. DISCONNECT EXISTING DEVICES FROM DEMOLISHED FIRE ALARM PANEL & RECONNECT TO NEW FIRE ALARM PANEL.



FIRE ALARM SYSTEM GENERAL NOTES

1. SEE FLOOR PLANS FOR INTENDED COVERAGE OF FIRE ALARM SYSTEM REVISION.
2. THE FOLLOWING SHALL OCCUR UPON ACTIVATION OF ANY INITIATING DEVICE:
   A. SOUND ALL AUDIBLE DEVICES (CHIMES, HORNS, BELLS, ETC.) AND FLASH ALL VISUAL DEVICES (LIGHTS OR STROBES THROUGHOUT THE ENTIRE FACILITY.
   B. ALERT A CENTRAL STATION ALARM REPORTING SERVICE VIA DIGITAL COMMUNICATOR AND LEASED TELEPHONE LINES.
   C. CLOSE ALL SMOKE DOORS THROUGHOUT THE FACILITY.
   D. STOP AHU'S AND FANS.
   E. INDICATE BY ZONE WITH AUDIO/VISUAL SIGNAL AT FACP AND ALL REMOTE ANNUNCIATORS.
3. INITIATING DEVICES SHALL BE SMOKE DETECTORS, DUCT-MOUNTED SMOKE DETECTORS, HEAT DETECTORS, MANUAL PULL STATIONS, AND SPRINKLER FLOW SWITCHES.
4. SYSTEM TROUBLE (OPEN WIRING, SHORTED WIRING, OR GROUND FAULTS) SHALL BE ANNUNCIATED BOTH AUDIBLY AND VISUALLY AT THE FACP AND AT ALL ANNUNCIATORS.
5. NOTIFICATION APPLIANCE CIRCUITS THAT PASS THROUGH A DIFFERENT ZONE THAN THE ZONE IN WHICH THEY ARE NOTIFYING SHALL BE INSTALLED IN A 2-HOUR RATED CABLE/CONDUIT ASSEMBLY.
6. THE FIRE ALARM CONTRACTOR SHALL COORDINATE WITH THE OWNER AND LOCAL FIRE MARSHALL REGARDING THE REQUIRED NOTIFICATION ZONING REQUIREMENTS AND PROVIDE 2-HOUR RATED CABLE/CONDUIT ASSEMBLY FOR EACH REQUIRED ZONE.
7. ALL SYSTEM WIRING SHALL BE CLASS B, NO T-TAPPING IS PERMITTED.
8. PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS THAT INCLUDE ALL DEVICES AND APPLIANCES INSTALLED IN SYSTEM AND SUBMIT TO ENGINEER.
9. THE LOCATION OF THE BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL UNIT. THIS INFORMATION SHALL INCLUDE THE PANELBOARD AND CIRCUIT BREAKER SERVING THE FACP, AS WELL AS THE ROOM WHERE THE PANELBOARD IS LOCATED.
10. FIRE ALARM SYSTEM CONTROL EQUIPMENT, ALARM INITIATING DEVICES, POWER SOURCES, MUNICIPAL OR REMOTE STATION SIGNALING APPARATUS, SMOKE DOOR HOLD/RELEASE DEVICES, AND REMOTE ANNUNCIATION/CONTROL PANELS SHALL BE UNDERWRITER'S LABORATORIES LISTED FOR THE INSTALLED APPLICATION.

3 / EE010 PARTIAL FIRE ALARM RISER DIAGRAM
SCALE: NOT TO SCALE

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL

A/E SEAL

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

REVISIONS

NO.	NAME	DATE

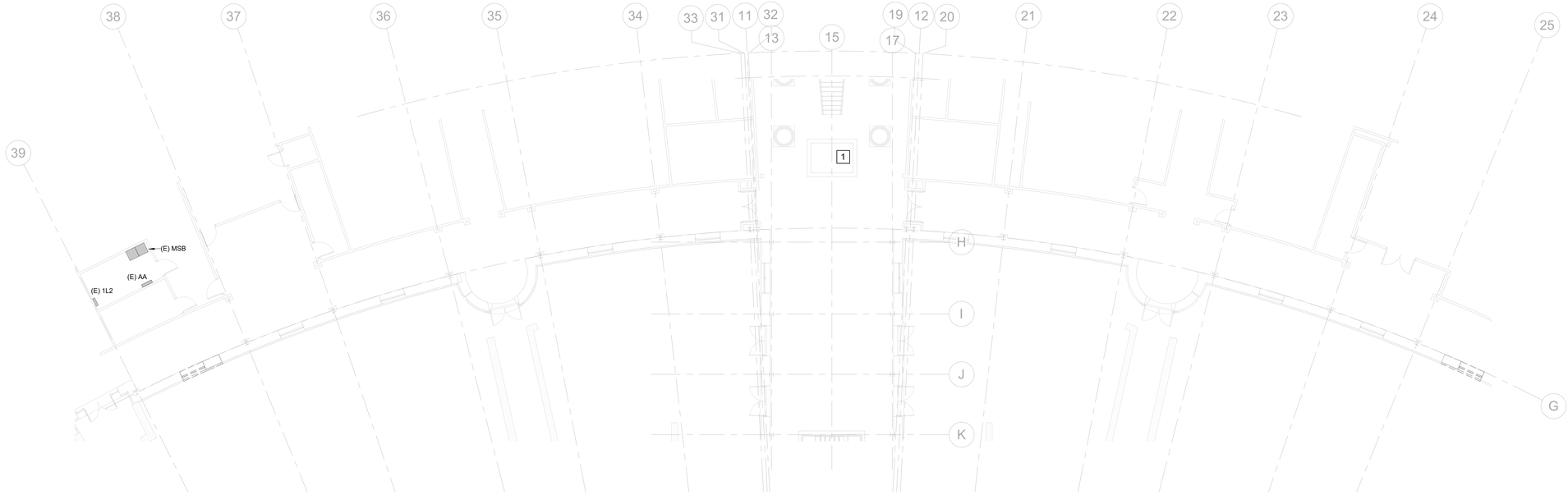
DRAWN BY: EWB
CHECKED BY: Checker

DRAWING TITLE
ELECTRICAL ONE-LINE DIAGRAM

PROJECT NO. 21303-06
DATE 7/25/2023

DRAWING NO.
EE010

7/25/2023 6:48:31 PM



1 EE060 ELECTRICAL DEMOLITION PLAN
SCALE: 1" = 10'-0"

DEMOLITION KEYNOTES

1 ELECTRICALLY DISCONNECT ALL COMPONENTS OF THE EXISTING ELEVATOR FOR REMOVAL BY OTHERS. THIS INCLUDE THE ELEVATOR CONTROLLER, CAB LIGHTS, PIT EQUIPMENT, PIT AND TOP OF SHAFT LIGHTS AND RECEPTACLES. CAP ALL WIRING FOR RE-USE DURRING INSTALLATION OF NEW ELEVATOR IN SAME LOCATION.

GENERAL NOTES

1. NOT ALL EXISTING DEVICES AND EQUIPMENT ARE MODELED OR SHOWN.

DWG
CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
SOUTH CAROLINA
DWG, INC.
CONSULTING ENGINEERS
No.C03649
CERTIFICATE OF AUTHORIZATION

A/E SEAL
SOUTH CAROLINA
No. 39922
REGISTERED PROFESSIONAL ENGINEER
MAXWELL DWG
7/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

REVISIONS

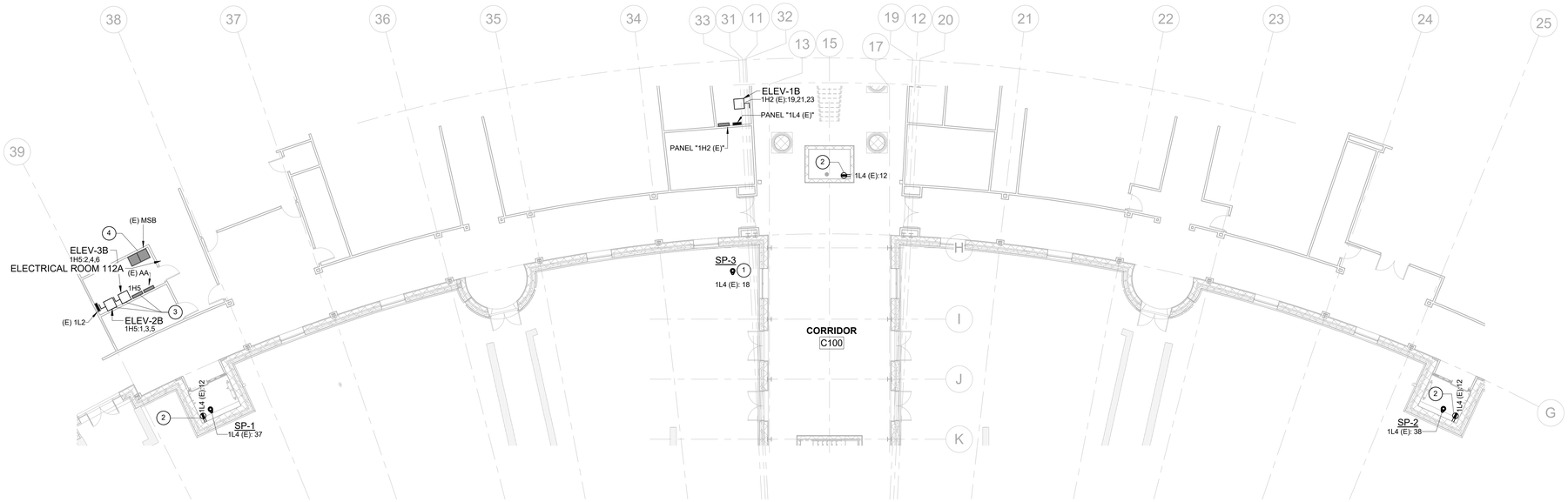
NO.	NAME	DATE

DRAWN BY: Author
CHECKED BY: Checker

DRAWING TITLE
ELECTRICAL DEMOLITON PLAN

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. **EE060**

7/25/2023 6:48:33 PM



1 EE101 FIRST FLOOR POWER & TELECOMMUNICATIONS PLAN
SCALE: 3/32" = 1'-0"

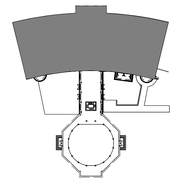
RENOVATION KEYNOTES

1. UTILIZE EXISTING CIRCUIT PREVIOUSLY SERVING REMOVED SUMP PUMP IN SAME LOCATION.
2. LOCATE RECEPTACLE IN ELEVATOR PIT.
3. LOCATE IN ELECTRICAL ROOM 123A. LOCATE PANELBOARD BETWEEN PANEL AA & ATS. LOCATE ELEVATORS DISCONNECTS IN THE ELECTRICAL ROOM. COORDINATE LOCATIONS WITH OWNER. POTENTIALLY LOCATE THE DISCONNECTS IN THE ADJACENT STORAGE ROOM.
4. PROVIDE A GE 65KAIC TJL BREAKER TO FEED NEW PANEL 1H5. FEED PANEL 1H5 WITH 4 # 500 & 1 # 3 IN 3" CONDUIT.

GENERAL NOTES

1. NOT ALL EXISTING DEVICES AND EQUIPMENT ARE MODELED OR SHOWN.
2. EXISITING DATA RACKS LOCATED IN ROOMS 106 AND 121.

KEYPLAN



DWG
CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

7/25/2023 6:48:36 PM

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION DWG, INC. CONSULTING ENGINEERS No.C03649

A/E SEAL
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 39922 MAXWELL SIM 7/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

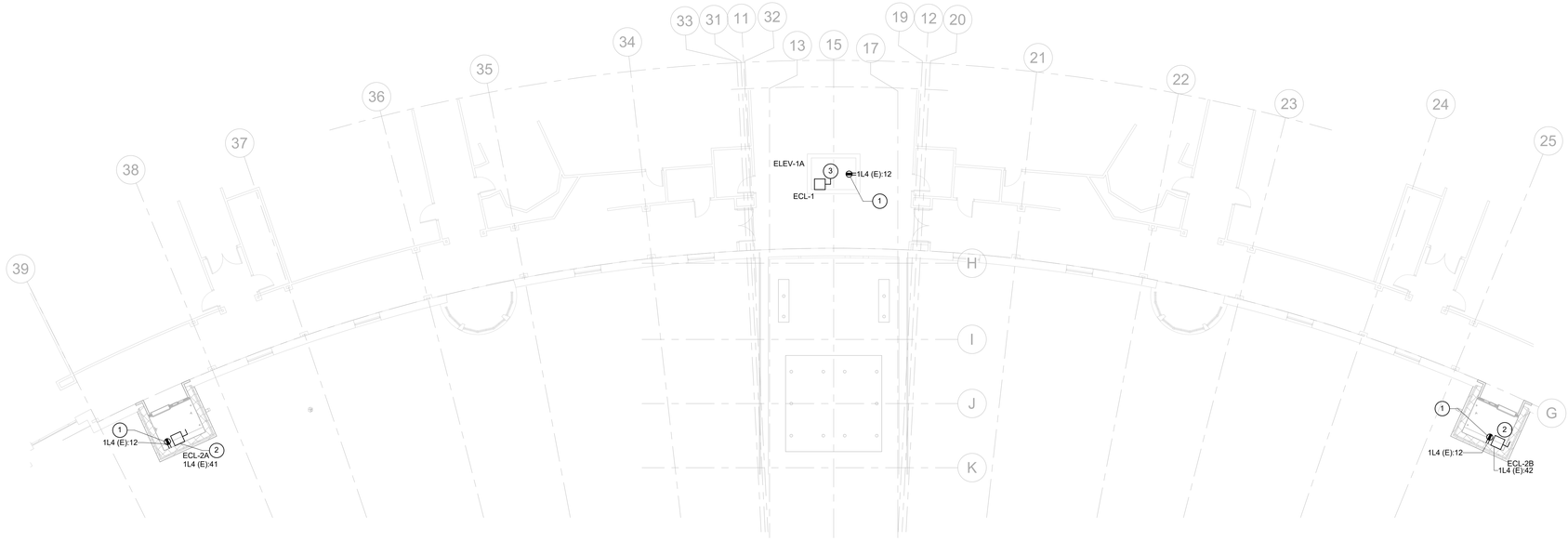
REVISIONS

NO.	NAME	DATE

DRAWN BY: EMB
CHECKED BY: MHS

DRAWING TITLE
FIRST FLOOR POWER & TELECOM PLAN

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. **EE101**



1 EE103 THIRD FLOOR POWER & TELECOM PLAN
SCALE: 3/32" = 1'-0"

RENOVATION KEYNOTES

1. LOCATE RECEPTACLE IN TOP OF ELEVATOR SHAFT.
2. PROVIDE 15A FUSED 30A DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTING. LOCATE DISCONNECT OUT OF TRAVEL PATH OF ELEVATOR. COORDINATE WITH ELEVATOR SHOP DRAWINGS.
3. UTILIZE EXISTING CIRCUIT PREVIOUSLY SERVING THE DEMOLISHED ELEVATOR IN THE SAME LOCAITON.

GENERAL NOTES

1. NOT ALL EXISTING DEVICES AND EQUIPMENT ARE MODELED OR SHOWN.

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
SOUTH CAROLINA DWG, INC. CONSULTING ENGINEERS No.C03649 CERTIFICATE OF AUTHORIZATION

A/E SEAL
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 39922 MAXWELL BIRD 7/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

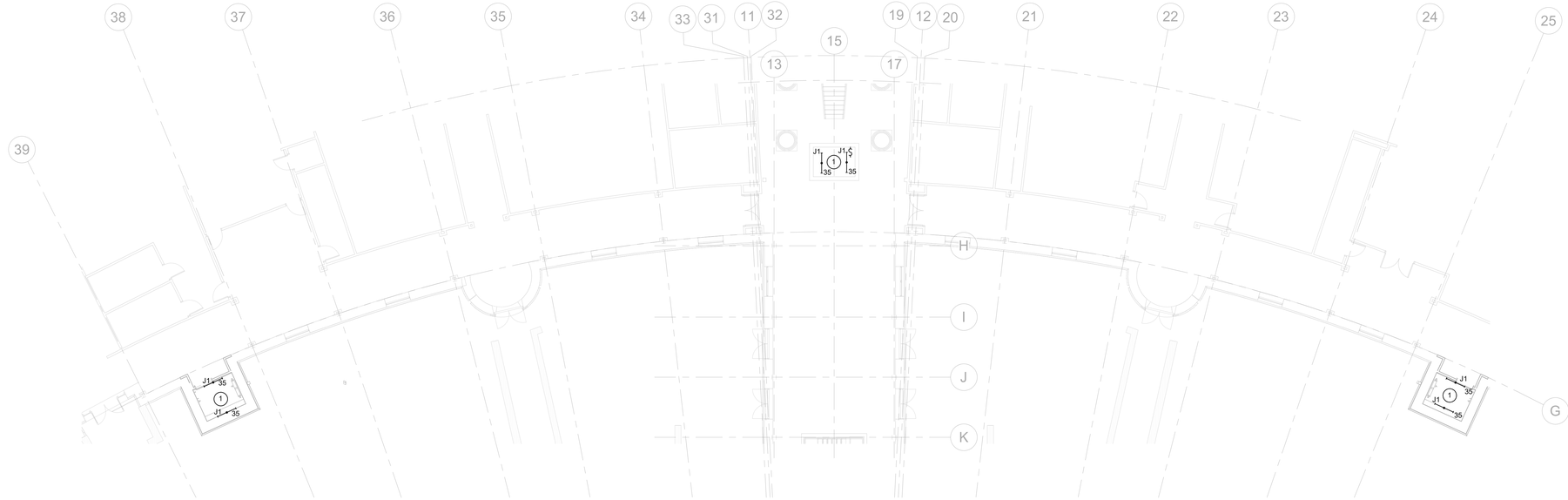
REVISIONS		
NO.	NAME	DATE

DRAWN BY: EMB
CHECKED BY: MHS

DRAWING TITLE
THIRD FLOOR POWER & TELECOM PLAN

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. **EE103**

7/25/2023 6:48:38 PM



1 / EE201 FIRST FLOOR LIGHTING PLAN
SCALE: 3/32" = 1'-0"

RENOVATION KEYNOTES

(1) MOUNT LIGHT FIXTURES AT BOTTOM OF ELEVATOR SHAFT. COORDINATE EXACT LOCATION WITH ELEVATOR INSTALLATION.

GENERAL NOTES

1. NOT ALL EXISTING DEVICES AND EQUIPMENT ARE MODELED OR SHOWN.

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
SOUTH CAROLINA
DWG, INC.
CONSULTING ENGINEERS
No.C03649
CERTIFICATE OF AUTHORIZATION

A/E SEAL
SOUTH CAROLINA
No. 39922
REGISTERED PROFESSIONAL ENGINEER
MAXWELL SIRI
7/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

REVISIONS

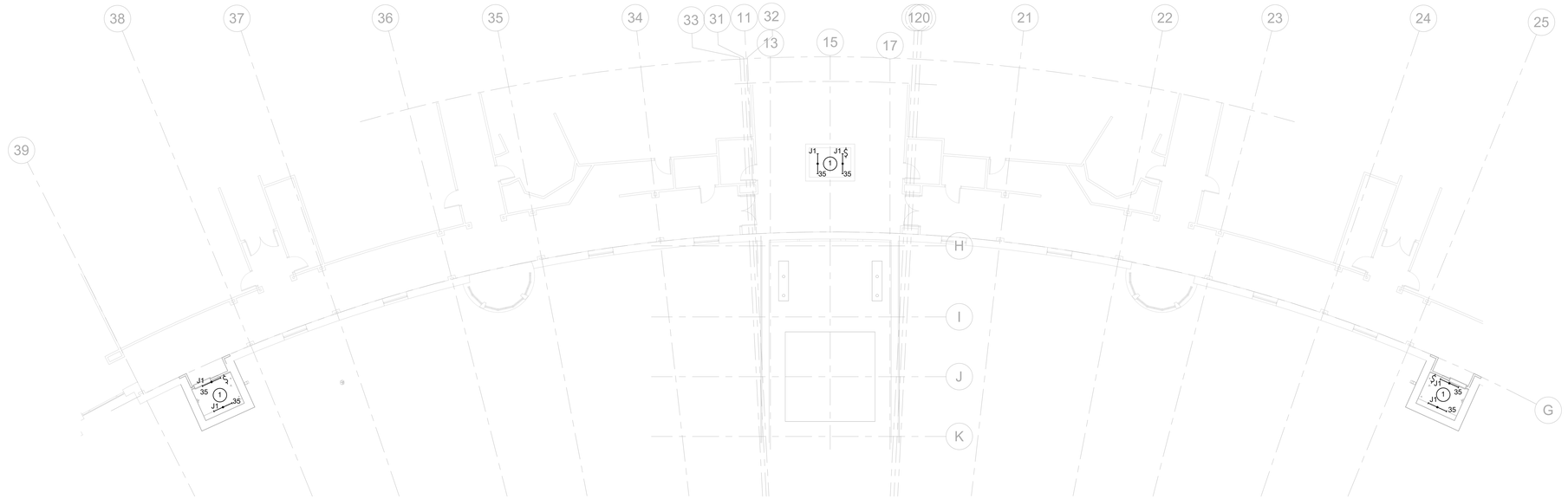
NO.	NAME	DATE

DRAWN BY: EMB
CHECKED BY: MHS

DRAWING TITLE
FIRST FLOOR LIGHTING PLAN

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. **EE201**

7/25/2023 6:48:39 PM



1 EE203 THIRD FLOOR LIGHTING PLAN
SCALE: 3/32" = 1'-0"

RENOVATION KEYNOTES

1. MOUNT LIGHT FIXTURES AT TOP OF ELEVATOR SHAFT. COORDINATE EXACT LOCATION WITH ELEVATOR INSTALLATION.

GENERAL NOTES

1. NOT ALL EXISTING DEVICES AND EQUIPMENT ARE MODELED OR SHOWN.

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
SOUTH CAROLINA
DWG, INC.
CONSULTING ENGINEERS
No.C03649
CERTIFICATE OF AUTHORIZATION

A/E SEAL
SOUTH CAROLINA
No. 39922
REGISTERED PROFESSIONAL ENGINEER
MAXWELL SIM
7/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

REVISIONS

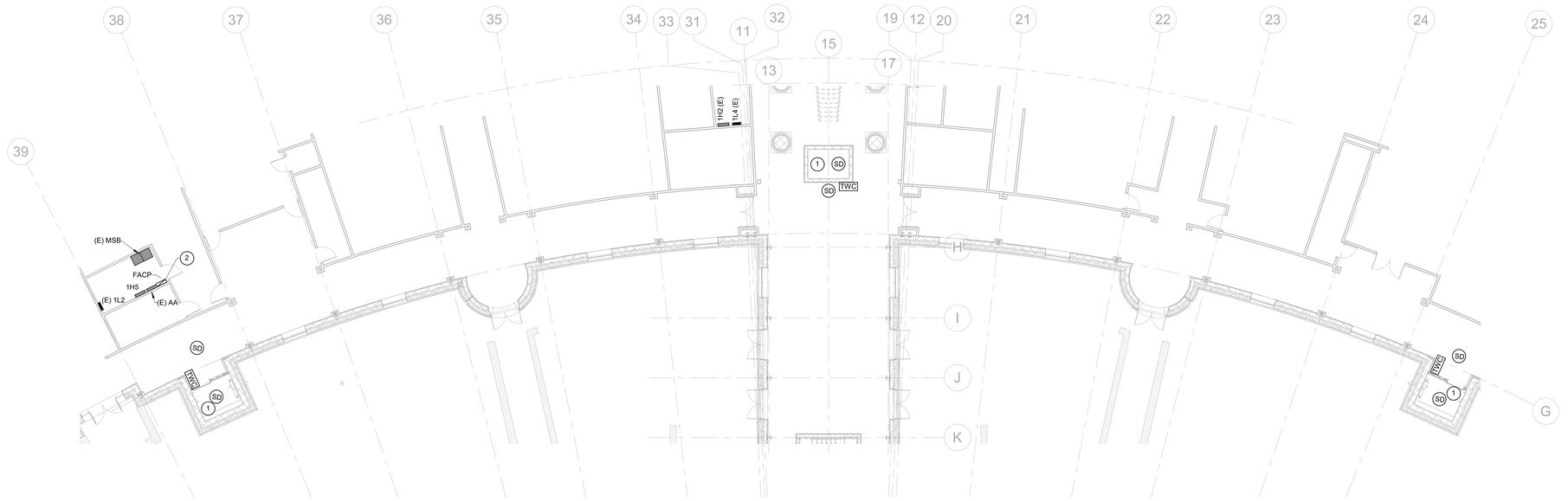
NO.	NAME	DATE

DRAWN BY: EMB
CHECKED BY: MHS

DRAWING TITLE
THIRD FLOOR LIGHTING PLAN

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. **EE203**

7/25/2023 6:48:41 PM



1 EE301 FIRST FLOOR SYSTEMS PLAN
SCALE: 3/32" = 1'-0"

RENOVATION KEYNOTES

1. LOCATED AT BOTTOM OF ELEVATOR SHAFT.
2. REPLACE EXISTING GE EST FIRE ALARM CONTROL PANEL WITH NEW THAT CAN ACCOMODATE THE ADDITIONAL ELEVATORS RENOVATION. RECONNECT NEW PANEL TO EXISTING CIRCUIT PREVIOUSLY SERVING DEMOLISHED FIRE ALARM PANEL. SEE PARTIAL FIRE ALARM RISER DIAGRAM FOR SCOPE OF WORK.

GENERAL NOTES

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

7/25/2023 6:48:43 PM

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
DWG, INC.
CONSULTING ENGINEERS
No.C03649

A/E SEAL
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 39922
MAXWELL BIRD
7/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

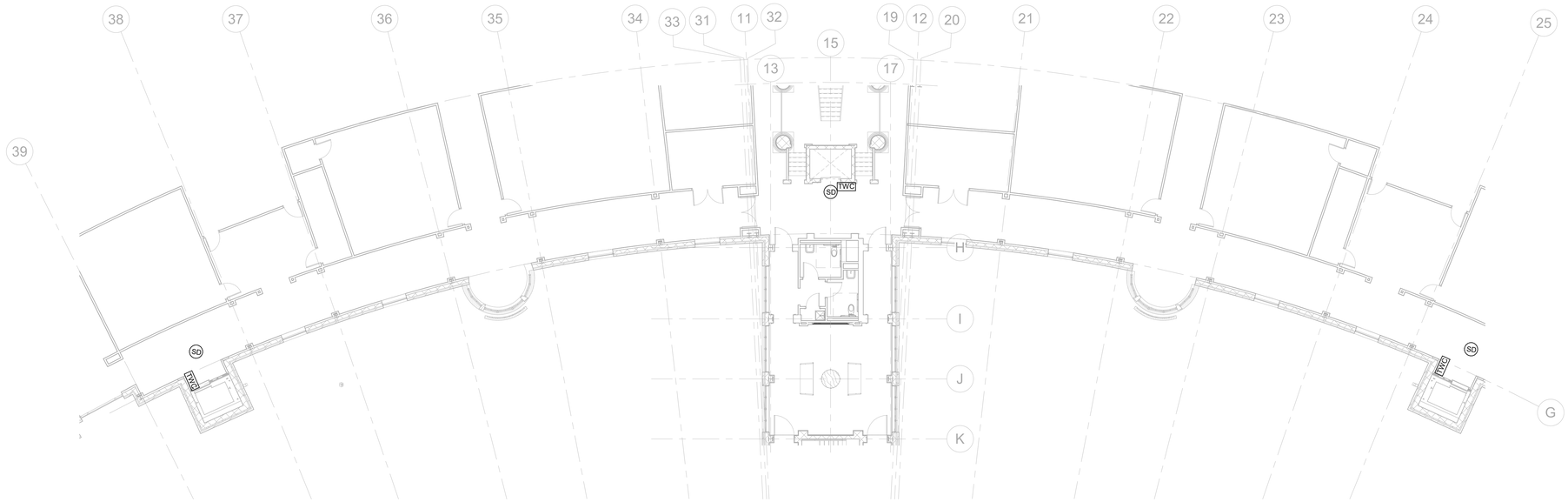
REVISIONS

NO.	NAME	DATE

DRAWN BY: EMB
CHECKED BY: MHS

DRAWING TITLE
FIRST FLOOR SYSTEMS PLAN

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. **EE301**



1 EE302 SECOND FLOOR SYSTEMS PLAN
SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. NOT ALL EXISTING DEVICES AND EQUIPMENT ARE MODELED OR SHOWN.

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
DWG, INC. CONSULTING ENGINEERS No.C03649 SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION

A/E SEAL
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 39922 MAXWELL BIRD 7/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

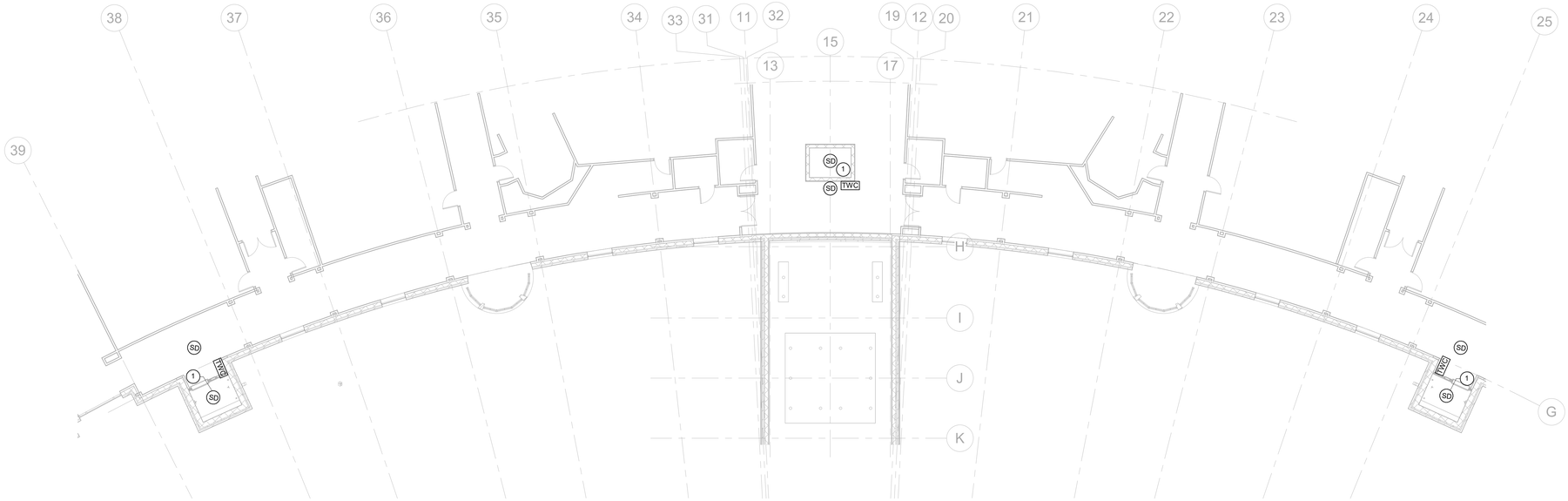
REVISIONS		
NO.	NAME	DATE

DRAWN BY: EMB
CHECKED BY: MHS

DRAWING TITLE
SECOND FLOOR SYSTEMS PLAN

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. **EE302**

7/25/2023 6:48:45 PM



1 EE303 THIRD FLOOR SYSTEMS PLAN
SCALE: 3/32" = 1'-0"

RENOVATION KEYNOTES

(1) LOCATED AT TOP OF ELEVATOR SHAFT.

GENERAL NOTES

1. NOT ALL EXISTING DEVICES AND EQUIPMENT ARE MODELED OR SHOWN.

DWG CONSULTING ENGINEERS
EMPLOYEE OWNED
1009 Anna Knapp Blvd., Suite 200
Mt. Pleasant, SC 29464
843-849-1141

GARVINDESIGNGROUP
1209 Lincoln Street P.O. Box 18 Columbia, SC 29202
803.212.1032 p / 803.212.1074 f

A/E SEAL
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
DWG, INC. CONSULTING ENGINEERS No.C03649

A/E SEAL
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 39922
MAXWELL SIEG
7/25/2023

PROJECT TITLE
WALL BUILDING ELEVATOR ENHANCEMENTS
COASTAL CAROLINA UNIVERSITY
CONWAY, SOUTH CAROLINA
STATE PROJECT NO. H17-N142-CB

REVISIONS

NO.	NAME	DATE

DRAWN BY: EMB
CHECKED BY: MHS

DRAWING TITLE
THIRD FLOOR SYSTEMS PLAN

PROJECT NO. 21303-06
DATE 7/25/2023
DRAWING NO. **EE303**

7/25/2023 6:48:47 PM