

HOFFMAN AUDITORIUM RENOVATION -

CYRIL MOORE HALL

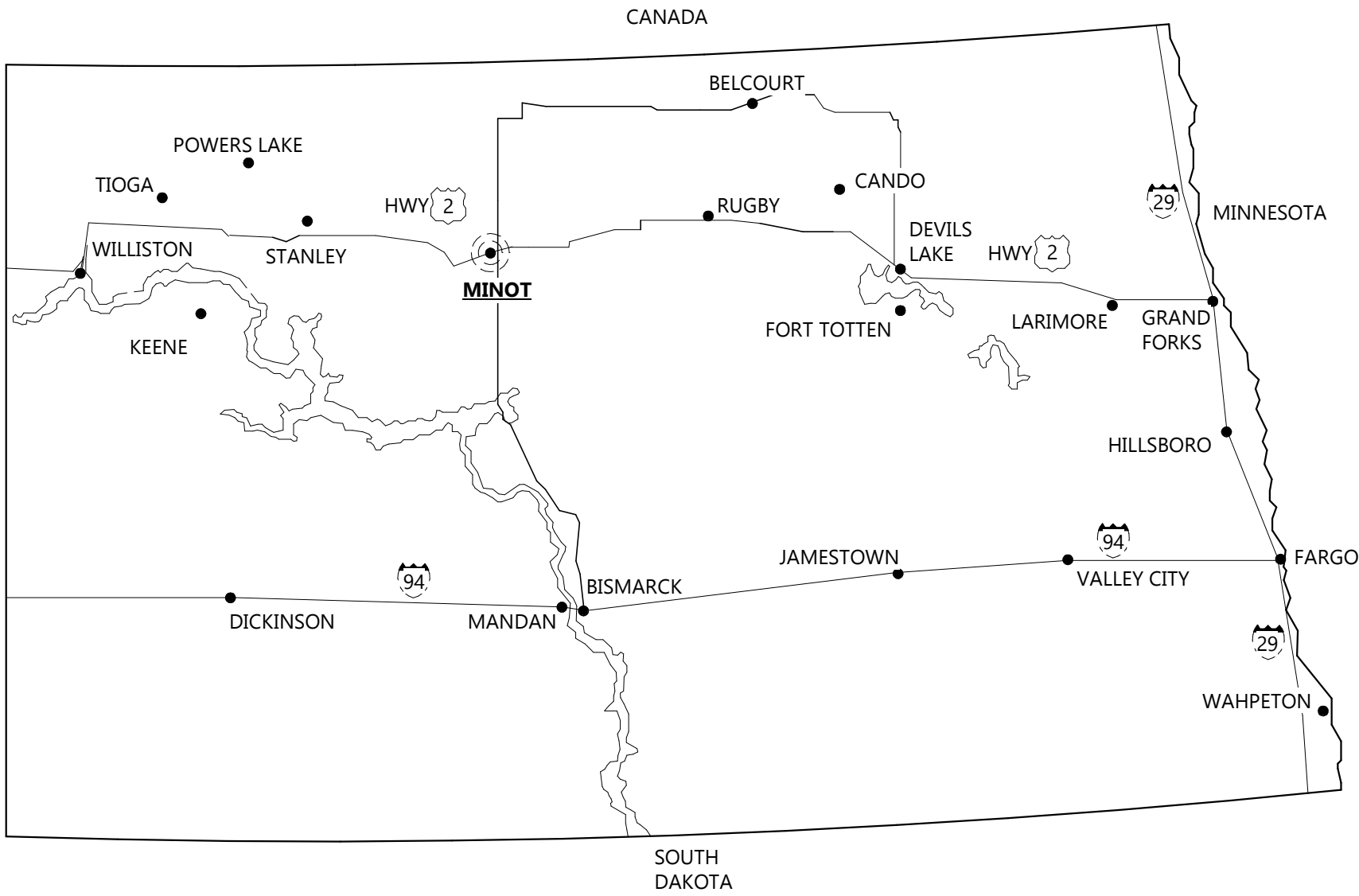
500 UNIVERSITY AVE W

MINOT, ND 58707

RENDERING



LOCATION



GENERAL

G001 COVER SHEET
G101 LIFE SAFETY PLAN

CIVIL

C001 CIVIL LEGEND & NOTES
C201 CIVIL DETAILS
C601 EXISTING CONDITIONS & REMOVALS PLAN
C602 CIVIL SITE PLAN
C603 CIVIL GRADING PLAN

ARCHITECTURAL

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A021 WALL TYPES AND DOOR INFORMATION
A101 DEMOLITION PLAN
A201 FLOOR PLANS AND ELEVATIONS
A301 REFLECTED CEILING PLAN
A310 CEILING BASIS OF DESIGN
A320 CEILING OVERVIEW
A321 CEILING REFERENCE LEVEL 1 - GRIDS D-E
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A324 CEILING REFERENCE LEVEL 2 - GRIDS A-B, F-H, N-P
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PLUMBING & MECHANICAL

PM01 MECHANICAL SYMBOLS & LEGEND SHEET

PLUMBING

P101 FIRST FLOOR PLUMBING DEMOLITION PLAN
P201 FIRST FLOOR PLUMBING PLAN

MECHANICAL

M101 FIRST FLOOR HYDRONICS DEMOLITION PLAN
M102 FIRST FLOOR VENTILATION DEMOLITION PLAN
M201 FIRST FLOOR HYDRONICS PLAN
M301 FIRST FLOOR VENTILATION PLAN
M302 FIRST FLOOR VENTILATION ABOVE CEILING PLAN
M401 MECHANICAL SECTIONS
M701 SEQUENCE OF OPERATIONS
M801 MECHANICAL SCHEDULES & DETAILS

ELECTRICAL

E001 ELECTRICAL SYMBOLS & ABBREVIATIONS LEGEND
E100 ELECTRICAL SITE PLAN
E101 ELECTRICAL DEMOLITION PLAN
E201 ELECTRICAL POWER PLAN
E301 ELECTRICAL LIGHTING PLAN
E401 ELECTRICAL SYSTEMS PLANS
E402 ELECTRICAL SECOND FLOOR SYSTEMS PLAN
E501 ELECTRICAL FIRE ALARM PLAN
E801 ONE-LINE, MOTOR & EQUIPMENT SCHEDULE & RISER
E802 LIGHTING SCHEDULES & DETAILS
E803 DETAILS, SCHEDULES & RISER DIAGRAMS
E901 SCHEDULES

AUDIO VIDEO

AV001 AV NOTES
AV011 AV DETAILS - CONNECTORS
AV012 AV DETAILS - CABLE AND CONDUIT
AV013 AV DETAILS - PANELS
AV014 AV DETAILS - INSTALLATION
AV031 AV SCHEDULES
AV051 AV SINGLE LINES
AV101 AV FLOOR PLAN
AV151 AV REFLECTED CEILING PLAN
AV300 AV SECTIONS
AV521 AV PANEL DETAILS
AV571 AV RACK ELEVATIONS

CONTACT

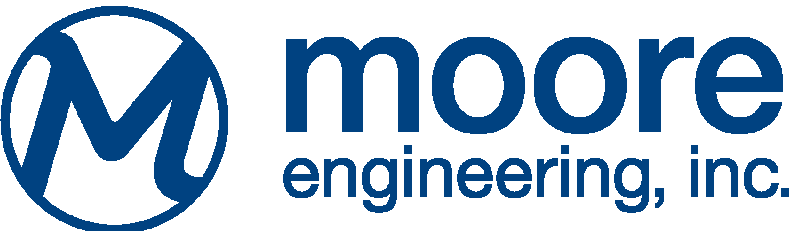


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CONSULTANTS
THEATRE PLANNERS | LIGHTING DESIGNERS
Schuler Shook

CLIENT
MINOT STATE UNIVERSITY

PROJECT DESCRIPTION
HOFFMAN AUDITORIUM RENOVATION - CYRIL MOORE HALL

CITY **MINOT**
STATE **ND**

ISSUE DATES

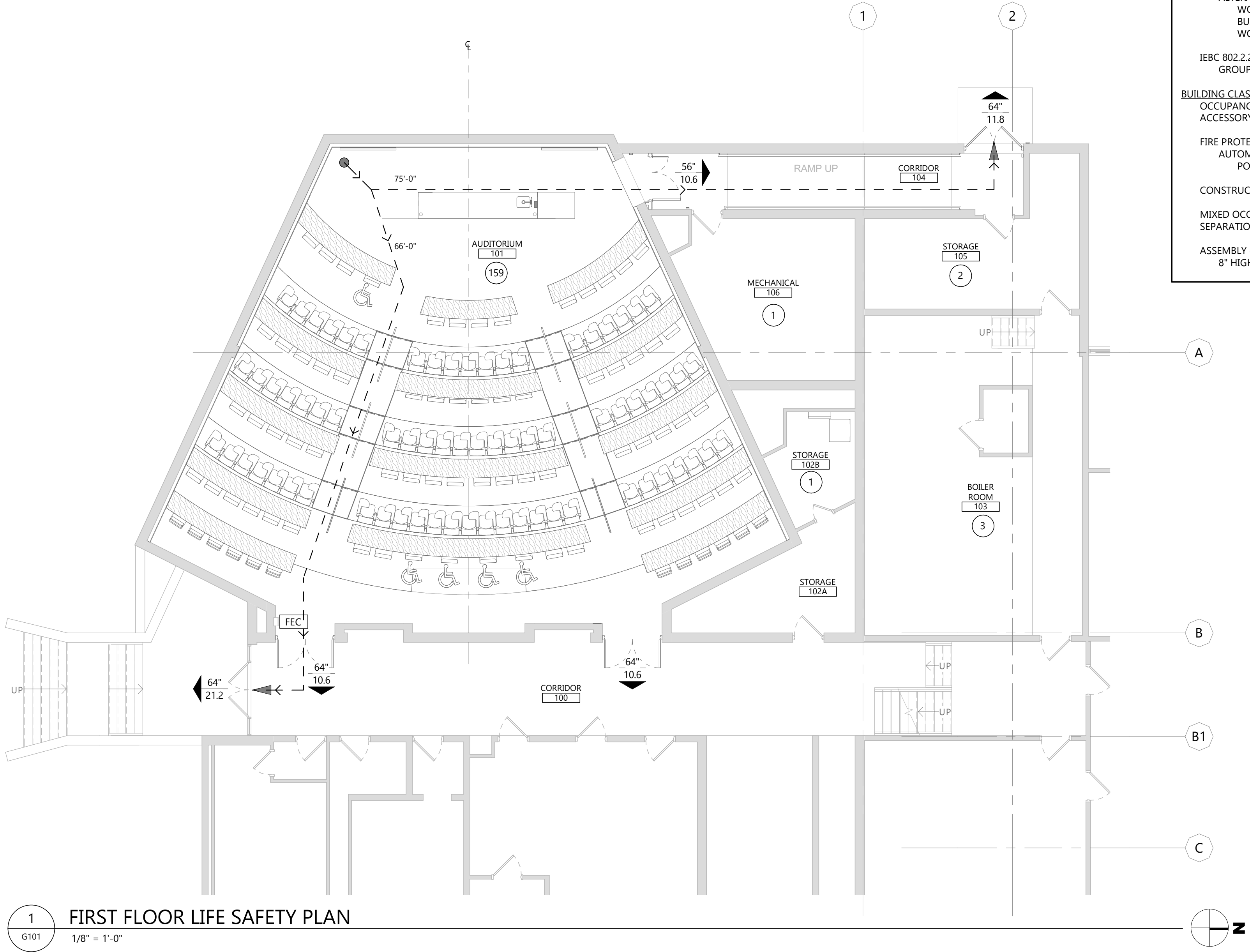
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MARK	DESCRIPTION	DATE

PROJECT NO: **20262120**
DRAWN BY: **MGB**
CHECKED BY: **SH**

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DRAWING TITLE
COVER SHEET

G001



1
G101

FIRST FLOOR LIFE SAFETY PLAN

1/8" = 1'-0"

LIFE SAFETY LEGEND

← ##

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→ ##

→ ##

EXIT/EXIT DISCHARGE
CLEAR WIDTH IN INCHES
OCCUPANT CAPACITY

→

→

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→

COMMON PATH TRAVEL DISTANCE (CPTD)
EXIT ACCESS (EXA)
TRAVEL DISTANCE TO EXIT (TDx)

X

OCCUPANT LOAD IN A GIVEN ROOM OR AREA

FEC

FIRE EXTINGUISHER CABINET

CODE REFERENCES

DESIGN IS BASED ON REQUIREMENTS FROM:

2024	IBC	INTERNATIONAL BUILDING CODE
2024	IEBC	INTERNATIONAL EXISTING BUILDING CODE
2017	ICC	ICC 117.1 (ACCESSIBILITY)
2021	IMC	INTERNATIONAL MECHANICAL CODE
2018	UFC	ND PLUMBING CODE (BASED ON UNIFORM BUILDING CODE)
2023	NEC	NATIONAL ELECTRIC CODE

LIFE SAFETY CODE ANALYSIS

LOCATION
MINOT STATE UNIVERSITY - CYRIL MOORE HALL

BUILDING DESCRIPTION
REMODELING OF EXISTING HOFFMAN AUDITORIUM

BUILDING STATISTICS

EXISTING FLOOR AREA	
EX. FIRST FLOOR	20,529 SF (EX. E & A OCCUPANCY)
EX. SECOND FLOOR	12,756 SF (EX. E OCCUPANCY)
EX. THIRD FLOOR	12,756 SF (EX. E OCCUPANCY)
TOTAL	46,041 SF

OCCUPANT LOAD

AUDITORIUM:

FIXED SEATING:	149 SEATS
397 SE/7' NET:	57 OCC
TOTAL:	206 OCCUPANTS

EXISTING BUILDING CODE

IEBC CHAPTER 8

ALTERATION LEVEL 2 (CHAPTER 8) - WORK AREA LESS THAN 50% OF BUILDING AREA

WORK AREA:	2,530 SF + 339 SF = 2,869 SF
BUILDING AREA:	20,529 SF (1ST FLOOR)
WORK AREA PERCENTAGE:	2,869 SF / 20,529 SF = 13.97% < 50%

IEBC 802.2.2
GROUP A,E: SPRINKLER NOT REQUIRED, WORK AREA LESS THAN 50% OF FLOOR AREA

BUILDING CLASSIFICATION & LIMITATIONS

OCCUPANCY GROUP: GROUP (B) - BUSINESS

ACCESSORY OCCUPANCY: ASSEMBLY (A-1)

FIRE PROTECTION SYSTEMS (IBC 903)

AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED (IEBC 803.2.2)

PORTABLE FIRE EXTINGUISHER: REQUIRED (PROVIDED) - 7'5" MAX. SPACING

CONSTRUCTION TYPE: TYPE II-B (EXISTING)

MIXED OCCUPANCY: ASSEMBLY (A-1)

SEPARATION OF OCCUPANCIES: NO RATING REQ'D W/ NO SPRINKLER REQ'D (IEBC 803.2.2.1)

ASSEMBLY (IBC SECTION 1030)

8" HIGH RISERS MAX. (SECT 1030.14.2.2)

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.

Signature: *Shawn Crawley*

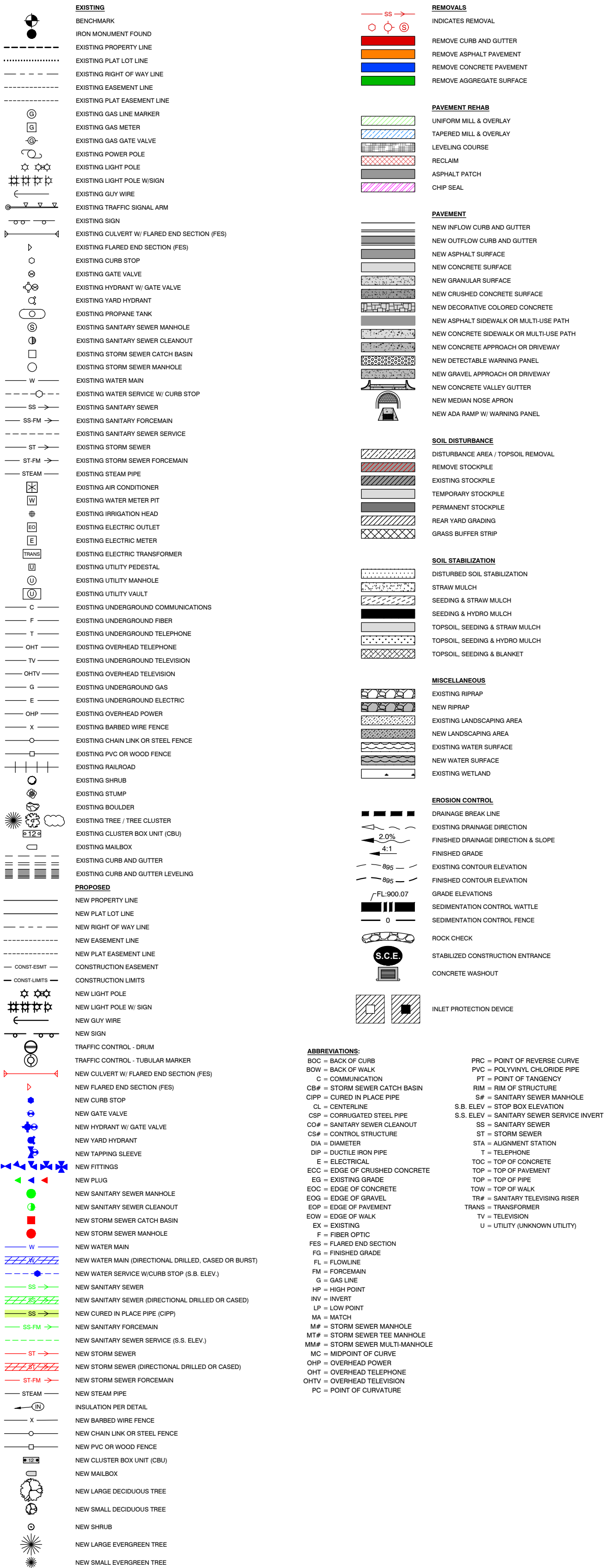
Date: 9/4/2026 REG. NO. : 2162

DRAWING TITLE

LIFE SAFETY PLAN

G101

CIVIL LEGEND



GENERAL NOTES:

GE-1 STANDARD SPECIFICATIONS: All construction activities to be in accordance to the City of Minot Standard Specifications and Details for Construction – Revised 2026.

GE-2 TYPICAL DETAILS: See the Typical Details for all construction activities not mentioned in the standard plan notes.

GE-3 DIMENSIONS: All site dimensions are to property line, back of curb, edge of walk, back of walk, and centerline of stripe unless noted. Dimensions shown on buildings are to the outermost (major) walls of buildings. For door and stoop locations and exact floor plan see Structural plans.

GE-4 CURRENT EDITIONS: Any ASTM, ACI, CRSI, NDDOT, MUTCD, Plumbing Code, etc. standards, designations, specifications, etc. or the like shall reference the current editions of such.

GE-5 INVESTIGATE: All on-site conditions, such as surface grades, utility locations, typical service line locations, subsurface conditions, etc., and contact Owner if conditions are different then what is represented.

GE-6 PRECAUTIONS: Take the necessary precautions required to protect adjacent site features (trees, landscaping, light poles, railings, pavements, buildings, etc.) during the construction operations and be responsible to repair any damage caused by development of the site.

GE-7 REMOVALS: Unless specifically noted, all removed materials, any debris encountered, and items not needed to be reused to complete the project shall become property of the Contractor for removal and disposal off of the Owner's property. Coordinate with Owner for reuse of salvaged materials, if any.

GE-8 EXISTING UTILITY LOCATES: Prior to digging, call "North Dakota One Call" (1-800-795-0555).

GE-9 TEMPORARY TRAFFIC CONTROL: Shall conform to the current edition of the MUTCD for all devices (types, materials, sizes, and colors), methods, and measures used. All custom signs shall be construction orange with black border and lettering unless noted.

GE-10 TRAFFIC CONTROL PLAN:

- A. Devices shall be maintained throughout the winter. Devices may need to be relocated, raised, cleared of snow, etc.
- B. Barricades shown on sidewalks or parking areas shall be on a skid mounted (i.e. moveable) assembly.
- C. Sign on barricade shall be mounted with the sign bottom on the top of the top barricade bar.
- D. Signs on sidewalks or parking areas shall be on a skid mounted (i.e. moveable) assembly.
- E. Portable sign supports may be used in lieu of post mounted signs. Any portable sign supports shall be outside of the traveled lane where they do not pose a hazard to traffic in parking lot.
- F. Drums shall be placed along parking lot driving lanes when equipment, workers, materials, etc. will be within 5' of the edge of traveled lane.

GE-11 BEST MANAGEMENT PRACTICES (BMP'S): Shall be installed prior to any disturbances and become property of the Contractor after they are removed. In the instance that a BMP fails, it shall be repaired, replaced, or supplemented with a functional BMP.

GE-12 TRACKING OF SOIL, SEDIMENTS, AND DEBRIS: All equipment and vehicles leaving the site shall be cleaned of loose debris and soil. All soil and other debris tracked onto adjacent roadways (outside the project limits) is to be removed. Sweep and remove sediments from impervious areas that have been tracked with sediments or had sediments spilled or eroded onto them. This shall be completed by the end of each day during the period of construction.

GE-13 SURFACE ROUGHENING: Slopes shall be left rough, not smooth, until permanent stabilization is implemented.

EXISTING CONDITIONS - REMOVALS:

RE-1 PAVEMENT REMOVALS: Shall consist of removing bituminous and concrete pavement to a joint or create a smooth vertical plane along the entire length of the remaining surface. Remove all materials indicated on plans and dispose of all materials removed, but not incorporated into the Work, in accordance with all applicable federal, state or local regulations.

RE-2 PAVEMENT SAWCUTTING: Shall consist of saw cutting full pavement depth ensuring a smooth vertical pavement edge.

RE-3 TREE & SHRUB REMOVALS: Shall consist of removing trees/shrubs and stumps indicated in the drawings to a depth of 3 feet below the final dirt grade. Backfill and compact all cavities with suitable fill material with proper compaction.

RE-4 TOPSOIL STRIPPING:

- A. Shall only be performed in areas where hard-surfaced areas will be placed, where grades need to be modified to match finished grades as shown on the plans, or where underground utilities will be installed. Stripped topsoil shall be stockpiled in area(s) as designated by the Owner or removed from site if no area(s) to stockpile.

SITE PLAN NOTES - VEHICULAR AREAS:

VA-1 CONCRETE CURB & GUTTER: Shall conform to Section 3200 of the City of Minot Standard Specifications.

VA-2 CONCRETE DRIVEWAYS, AND SIDEWALKS: Shall conform to Section 3300 of the City of Minot Standard Specifications. Concrete jointing design and expansion joints shall follow industry standards. Joint spacing shall be symmetrical between sections.

VA-3 CONNECT TO EXISTING CONCRETE DRIVEWAY: Shall conform to #4 x 12" bars at 24" spacing.

VA-4 CONCRETE DRIVEWAY EXPANSION JOINTS: Shall consist of asphalt-impregnated fiberboard or felt. Shall comply with ASTM D1751 Type 5 and be ¾ inch thick.

VA-5 ASPHALT PAVEMENT: Shall conform to Section 3000 of the City of Minot Standard Specifications.

VA-6 AGGREGATE BASE UNDER VEHICULAR AREAS: Shall conform to Section 2900 of the City of Minot Standard Specifications

VA-7 REMOVED AGGREGATE SURFACE MATERIALS: May be reused within the pavement section if it conforms to the project specifications.

VA-8 SUBGRADE PREPARATION UNDER VEHICULAR AREAS: Shall conform Section 1900 of the City of Minot Standard Specifications.

VA-9 REINFORCEMENT FABRIC UNDER VEHICULAR AREAS: Shall conform Section 1900 of the City of Minot Standard Specifications.

SITE PLAN NOTES - PEDESTRIAN AREAS:

PA-1 CONCRETE SIDEWALK & STAIRS: Shall conform to Section 3300 of the City of Minot Standard Specifications. Concrete jointing design and expansion joints shall follow industry standards. Joint spacing shall be symmetrical between sections.

- A. Expansion Joint: Install expansion joint material or plastic sleeve around castings, valve boxes, curbs boxes, etc. in sidewalks.
- B. Shall have radii poured integrally to the adjacent portion of sidewalk. In the instance that an integral pour is not used, a notch-out of at least 9" length shall be applied to the end of the arc to avoid a narrow "point" of concrete.

PA-2 AGGREGATE BASE COURSE UNDER PEDESTRIAN AREAS: Shall conform to Section 2900 of the City of Minot Standard Specifications

PA-3 HANDRAILS: Shall conform to Section 505 of ADA Accessibility Guidelines (ADAAG). Handrails to be steel tubing with black powder coating. Install surface mounted per manufacturer's directions.

SITE PLAN NOTES - SIGNING:

SI-1 SIGN AND SIGN POST REMOVALS AND RESETTINGS: Shall conform to replacing removed or reset signs and supports damaged during removing, resetting, or stockpiling. Remove sign panels from existing supports. Reinstall support and install new sign panels, angles, stringers, and steel channels. Provide all necessary brackets and hardware to attach sign panels, angles, stringers, and steel channels on new supports.

- SI-2 SIGNS AND SIGN POSTS: Shall conform to:
 - A. Posts: Shall be Telespar 12 gauge brand.
 - B. Signs: 3M Series 4000 Diamond Grade DG³.
 - C. Sign Mounting:
 - a. Sign Posts: Shall conform to bolts, nuts, U-bolts, lock washers, and washers shall be galvanized steel meeting ASTM A153. Bolts shall be 3/8" diameter steel panel bolts, machine bolts, etc., shall meet SAE J429 Grade 5 or ASTM A449. Nuts shall be steel hex nuts and meet SAE J995 Grade 5 or ASTM A563. Washers shall be steel flat washers fabricated of steel meeting ASTM F844. Plastic washers shall be fabricated to the sheeting manufacturer's specifications.
 - D. Shall conform to Section 3400 of the City of Minot Standard Specifications.

SITE PLAN NOTES - PAVEMENT MARKINGS:

PM-1 OBLITERATION OF EXISTING PAVEMENT MARKINGS: Shall conform to sandblasting or grinding. No carbide or diamond tip blades or wheels are allowed on removal equipment.

PM-2 PAVEMENT MARKINGS: Shall conform to Section 3500 of the City of Minot Standard Specifications.

- A. Owner approval of pavement marking layouts/outlines is required in field prior to any work being performed.

PM-3 THE INTERNATIONAL SYMBOL OF ACCESS: The symbol in the accessible parking space and the spacing between and angle of stripes in the access aisle shall be determined by the striping installer.

SITE PLAN NOTES - LANDSCAPE RESTORATION:

LR-1 ALL DISTURBED AREAS: Shall be stabilized no later than fourteen (14) calendar days after the construction activity in that portion of the site has temporarily or permanently ceased.

LR-2 TOPSOILING PRIOR TO SEEDING: Shall conform to section 1800 of the City of Minot Standard Specifications.

- A. Shall be a finishing activity (i.e. after all hard surfacing work is completed) to prevent contaminating the topsoil with sand, gravel, etc.
- B. Applies to all disturbed areas not hard surfaced or covered by structures. These areas shall receive 6" topsoil (min.).

LR-3 SEEDING: Shall conform to Section 3700 of the City of Minot Standard Specifications.

LR-4 HYDROMULCH: Shall conform to Section 3700 of the City of Minot Standard Specifications.

SITE PLAN NOTES - MISCELLANEOUS:

MI-1 SELF-ADHERING WATERPROOFING MEMBRANE: Install W.R. Meadows MEL-ROL Self-Adhering Waterproofing Membrane (or Approved Equal) along wall of existing structure. Install behind existing metal siding to 6" above finished concrete sidewalk elevation and extend to +/- 2' from building under concrete sidewalk.

GR

FILE LOCATION: Q:\Projects\31000\31337 ASU\Hoffman Auditorium\Remodel\SiteImprovements\CD\CD Production\31337_Site.dwg

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Plot Date: 9/2/2026 3:55:04 PM

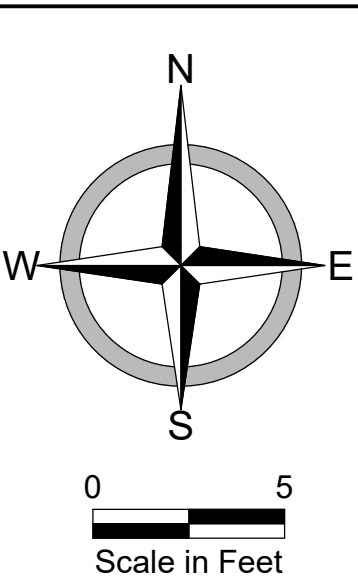


GENERAL NOTATIONS

- 1 PROPERTY LINE
- 6 PARCEL LINE

REMOVAL NOTATIONS - SITE

- 30 REMOVE EXISTING ASPHALT PAVEMENT
- 31 REMOVE EXISTING CONCRETE. EXTENTS SHALL BE TO NEAREST EXISTING JOINT (I.E. FULL PANEL)
- 33 REMOVE EXISTING CONCRETE STAIRS
- 34 REMOVE EXISTING CURB AND GUTTER
- 35 CLEAR AND GRUB EXISTING TREES, SHRUBS, ROOTS, STUMPS, ETC
- 40 STRIP TOPSOIL
- 44 OBLITERATE EXISTING MESSAGE
- 45 OBLITERATE EXISTING STRIPE
- 46 REMOVE AND RESET EXISTING DRAINAGE CROSSING PLATE



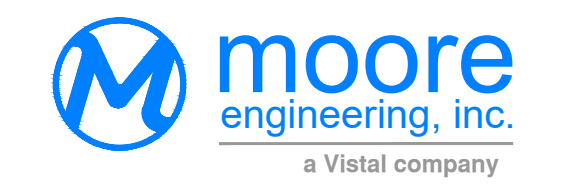


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ALTERNATE BID

PROJECT NO: **31337**
DRAWN BY: **KR**
CHECKED BY: **JR**

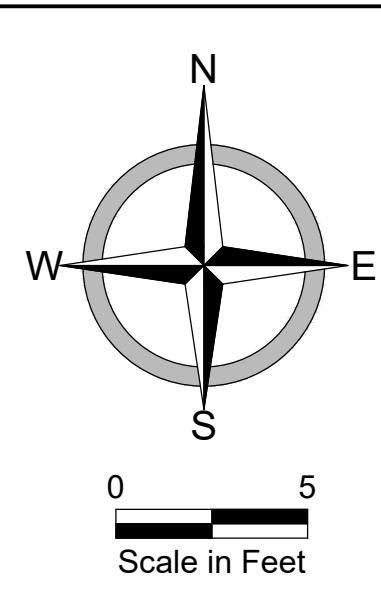
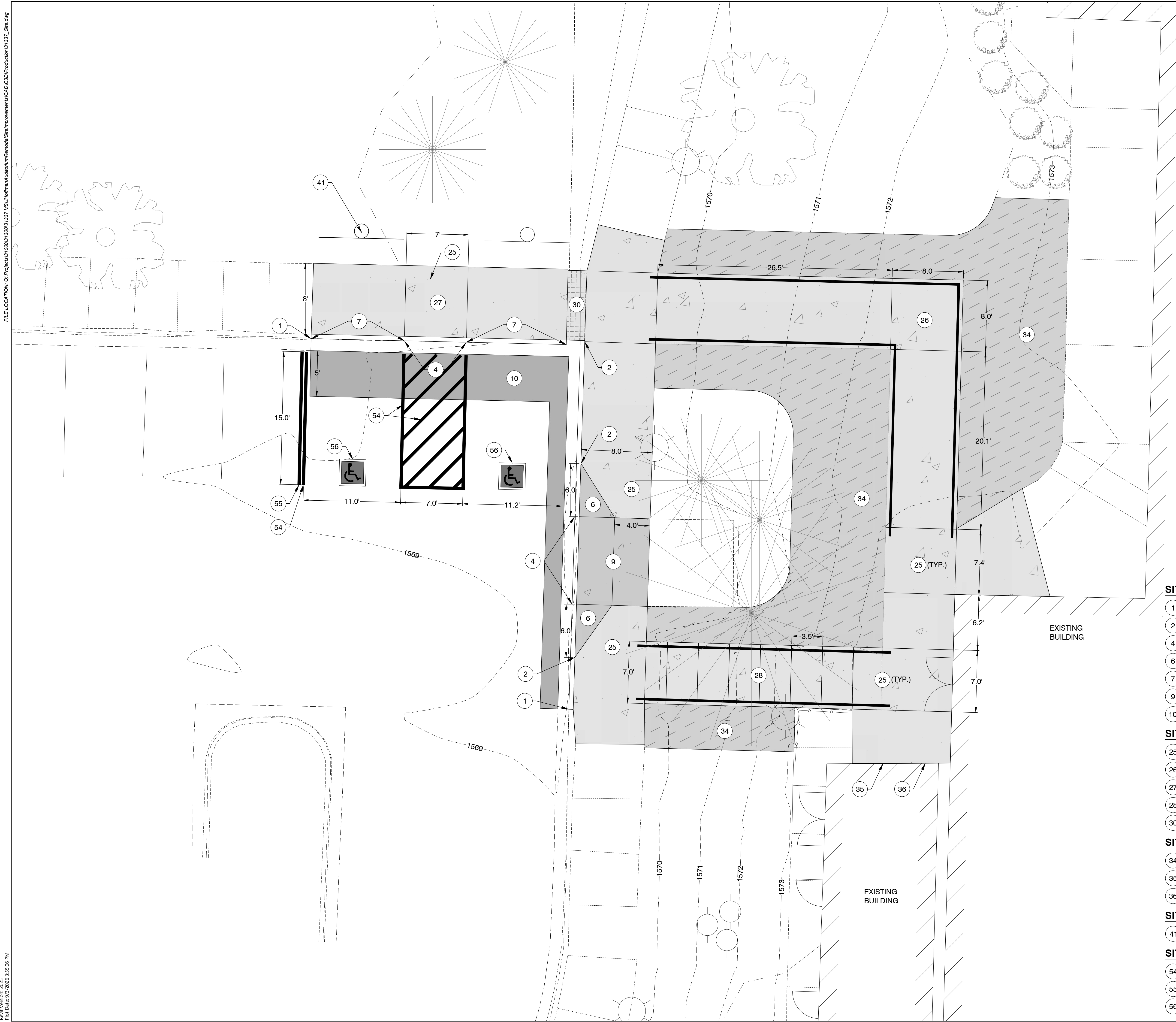
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DRAWING TITLE
EXISTING CONDITIONS & REMOVALS PLAN

C601





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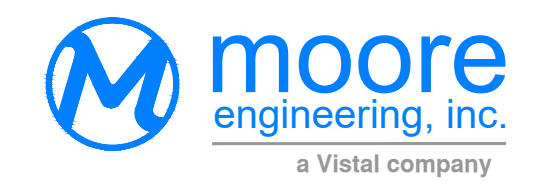
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SITE NOTATIONS - VEHICULAR AREAS

- 1 CONNECT TO EXISTING CURB AND GUTTER
- 2 CURB AND GUTTER - HIGHBACK
- 4 CURB AND GUTTER - KNOCKDOWN
- 6 10:1 MAX CURB TAPER
- 7 TAPER CURB TO MATCH SIDEWALK SLOPE
- 9 CONCRETE DRIVEWAY - 6"
- 10 ASPHALT PAVEMENT PATCH

SITE NOTATIONS - PEDESTRIAN AREAS

- 25 CONCRETE SIDEWALK
- 26 CONCRETE RAMP WITH HANDRAILS
- 27 CONCRETE CURB RAMP - PARALLEL RAMP
- 28 (7) CONCRETE STEPS WITH HANDRAILS
- 30 RESET DRAINAGE CROSSING PLATE PER DETAIL

SITE NOTATIONS - MISCELLANEOUS

- 34 REGRADE PRIOR TO TURF RE-ESTABLISHMENT
- 35 TRIM BOTTOM OF METAL SIDING TO MATCH ELEVATION OF PROPOSED SIDEWALK
- 36 INSTALL SELF-ADHERING WATERPROOFING MEMBRANE

SITE NOTATIONS - SIGNING

- 41 SIGN ASSEMBLY - ACCESSIBLE PARKING

SITE NOTATIONS - PAVEMENT MARKINGS

- 54 STRIPE - 4" BLUE
- 55 STRIPE - 4" YELLOW
- 56 MESSAGE - BLUE

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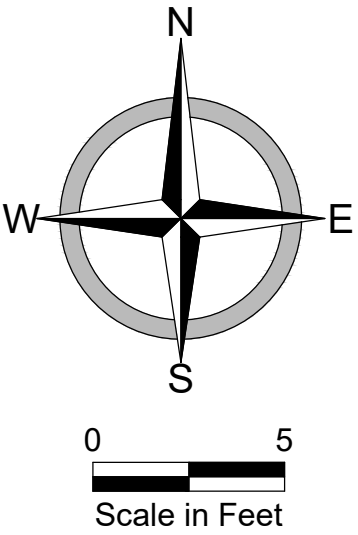
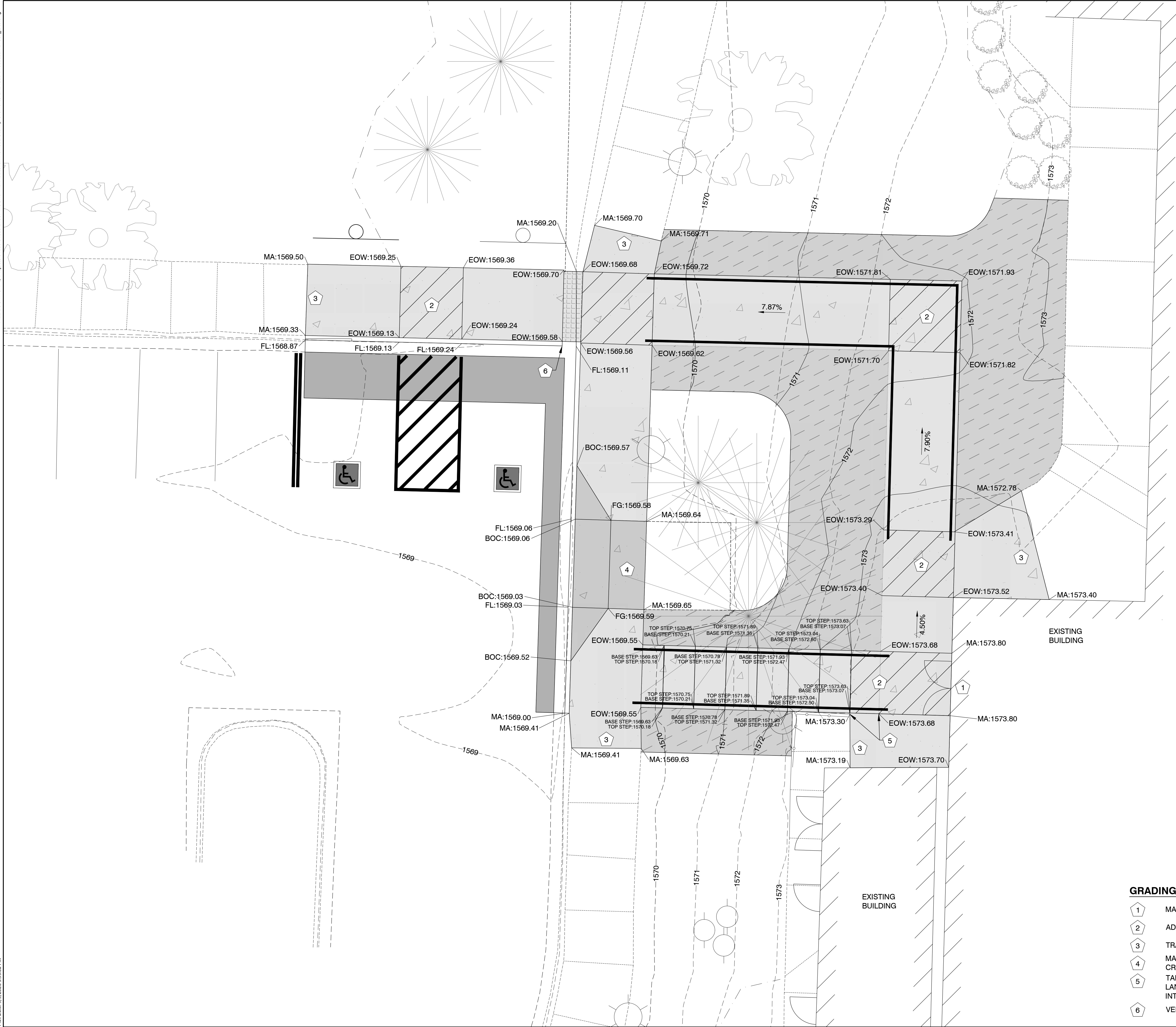
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CIVIL SITE PLAN

C602

FILE LOCATION: Q:\Projects\3100\31337 ASU Hoffman Auditorium Remodel\Sheet\Improvements\CD\CD Production\31337_Site.dwg

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DRAWING TITLE
CIVIL GRADING PLAN

C603

GRADING NOTATIONS

- 1 MATCH EXISTING BUILDING'S FLOOR ELEVATION
- 2 ADA COMPLIANT TURNING SPACE
- 3 TRANSITION GRADE TO EXISTING
- 4 MAINTAIN ADA COMPLIANT CROSS SLOPE THROUGH CROSSING PLATE
- 5 TAPER ELEVATION OF CONCRETE SIDEWALK ADJACENT TO LANDING AREA CREATING A FINISHED VERTICAL EDGE TO TIE INTO EXISTING CONCRETE ELEVATION
- 6 VERTICAL CURB EDGE

GRAPHIC SYMBOLS

BUILDING ELEVATION

ELEVATION ID
SHEET NUMBER
NOTE

WALL SECTION

SHEET NUMBER
NOTE

BUILDING SECTION

SECTION ID
SHEET NUMBER
NOTE

DETAIL REFERENCE

NOTE
DETAIL NUMBER
SHEET NUMBER

INTERIOR ELEVATION

ELEVATION NUMBER
SHEET NUMBER

ROOM

NAME

ROOM NAME
ROOM NUMBER

WINDOW TAG

WINDOW NUMBER

MATCH LINE

VIEW REFERENCE
VIEW REFERENCE

VIEW REFERENCE OF ADJACENT SHEET

KEYNOTE

DISCIPLINE LETTER
KEYNOTE NUMBER

CASEWORK

LOCKS, HDWE, ETC

CASEWORK NO.

CASEWORK FINISH

INTERIORS

FLOOR FINISH
WALL FINISH

GRID LINES

CONVENTIONAL GRID SYSTEM

ELEVATION DATUMS

BENCH MARK

SPOT ELEVATION (EXISTING)

SPOT ELEVATION (PROPOSED)

LEVEL NAME

LEVEL DATUM

WALL TAG

WALL TYPE

REVISION INDICATOR

REVISION TAG

REVISION CLOUD

A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ACC	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICAN WITH DISABILITIES ACT
ADD	ADDENDUM
ADJ	ADJACENT / ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
API	ACRYLIC PANEL
APPROX	APPROXIMATE
APT	APARTMENT
ARCH	ARCHITECT / ARCHITECTURAL
AVE	AVENUE
AVG	AVERAGE
AWP	ACOUSTIC WALL PANEL
B	
BB	BOND BEAM
BD	BOARD
BFD	BI-FOLD DOOR
BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BLVD	BOULEVARD
BM	BEAM
BO	BOTTOM OF / BY OTHERS
BOT	BOTTOM
BR	BEDROOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
C	
CA8	CABINET
CC	CUBICAL CURTAINS
CD	CONSTRUCTION DOCUMENTS
CF	CUBIC FOOT
CFCI	CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED
CFS	CORK FLOOR SHEET / CONCRETE FLOOR SYSTEM
CFT	CORK FLOOR TILE
CG	CORNER GUARD
CG	CORNER GUARDS
CHRL	CHAIR RAIL
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLLING DOOR
COL	COLUMN
COMP	COMPOSITE / COMPOSITION

C	CONC	CONCRETE
CONSTR	CONSTRUCTION	
CONT	CONTINUOUS	
CONTR	CONTRACTOR	
COORD	COORDINATE	
CORR	CORRIDOR	
FOUND	FOUNDATION	
CPTD	COMMON PATH TRAVEL DISTANCE	
CR	CURTAIN ROD	
CT	CERAMIC TILE	
CTOP	COUNTER TOP	
CTR	CENTER	
CU	CUBIC	
CY	CUBIC YARD	
D		
D	DEPTH / CLOTHES DRYER	
d	PENNY (NAILS)	
dB	DECIBEL	
DBL	DOUBLE	
DEMO	DEMOLISH / DEMOLITION	
DEPT	DEPARTMENT	
DF	DRINKING FOUNTAIN / DECORATIVE FILM	
DIA	DIAMETER	
DIAG	DIAGONAL	
DIM	DIMENSION	
DIV	DIVISION	
DN	DOWN	
DR	DOOR	
DS	DOWNSPOUT	
DTL	DETAIL	
DW	DISHWASHER	
DWG	DRAWING	
DWR	DRAWER	
E		
E	EAST	
EA	EACH	
EB	EXPANSION BOLT	
EC	ELECTRICAL CONTRACTOR	
EJ	EXPANSION JOINT	
EL	ELEVATION	
ELEC	ELECTRICAL	
ELEV	ELEVATOR	
EM	EMERGENCY	
EP	ELECTRICAL PANEL / END PANEL	
EPS	EXPANDED POLYSTYRENE	
EQ	EQUAL	
EQUIP	EQUIPMENT	
ESD	ELECTRO STATIC DISCHARGE VINYL TILE	
ETR	EXISTING TO REMAIN	
EW	ELECTRIC WATER COOLER	
EX	EXISTING	
EKA	EXIT ACCESS	
EXD	EXIT DISCHARGE	
EXT	EXTERIOR	

F	FAHRENHEIT
F/R	FIRE RATED
FB	FIRE BARRIER
FBD	FIBER BOARD
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FG	FLOAT GLASS
FIN	FINISH
FLASH	FLASHING
FLR	FLOOR
FOF	FACE OF FINISH
FOS	FACE OF STUDS
FW	FACE OF WALL
FP	FIRE PROTECTION / FIRE PARTITION
FR	FIRE RESISTANT
FRMG	FRAMING
FRP	FIBERGLASS REINFORCED PANEL
FRZ	FREEZER
FT	FEET / FIRE TREATED
FTG	FOOTING
FURN	FURNISH / FURNISHINGS
FURR	FURRING
FUT	FUTURE
FUT	FIRE WALL
FWP	FABRIC WRAP PANEL
G	
G	GENERAL
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GDC	GYMNASIUM DIVIDER CURTAINS
GL	GLASS / GLAZING / GLAZED
GLAM	GLUE-LAMINATED WOOD
GW8	GYPSPUM WALL BOARD
GYP	GYPSPUM
H	
H	HIGH
HC	HOLLOW CORE
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HDWE	HARDWARE
HEX	HORIZONTAL EXIT
HM	HOLLOW METAL
HNR	HANDRAILS
HOLD	HOLD TO INDICATED DIMENSION
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HSKP	HOUSEKEEPING
HT	HEIGHT

I	
ID	INSIDE DIAMETER / INSIDE DIMENSION
IG	INSULATING GLASS
IJ	ISOLATION JOINT
IN	INCHES
INFO	INFORMATION
INSP	INSPECTION / INSPECTOR
INST	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
INT STN	INTERIOR STONEWORK
IR	IMPACT RESISTANT
ISO	ISOLATION / INTERNATIONAL STANDARDS ORGANIZATION
J	
JAN	JANITOR
JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT
K	
KIT	KITCHEN
KO	KNOCK OUT
KP	KICK PLATE
L	
L	LEFT / LENGTH
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LB	POUND
LGSF	LIGHT GAUGE STEEL FRAMING
LH	LEFT-HAND
LHR	LEFT-HAND REVERSED
LKR	LOCKER
LP	LOW POINT
LR	LIVING ROOM
LSC	NFPA 101 LIFE SAFETY CODE
LSG	LAMINATED SAFETY GLASS
LT	LIGHT
LTWT	LIGHTWEIGHT
LVT	LUXURY VINYL TILE
M	
MA	MEDICAL AIR
MACH	MACHINE
MAINT	MAINTENANCE / MAINTAIN
MAS	MASONRY
MAX	MAXIMUM
PH	PHASE
M8R	MASTER BEDROOM
MC	MECHANICAL CONTRACTOR
MCW	MINERAL CORE WOOD
MDF	MEDIUM-DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDICAL / MEDICINE
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER / MANUFACTURING
MIN	MINIMUM / MINUTE
MIRR	MIRROR
MISC	MISCELLANEOUS

M	
M8B	MARKER BOARD
MO	MASONRY OPENING
MOD	MODIFY / MODULE
MP	METAL PANEL
MTC	METAL TOILET COMPARTMENT
MTD	MOUNTED
MTL	METAL
MTRL	MATERIAL
MULL	MULLION
MULT	MULTIPLE
MWP	MODULAR/FOLDING PARTITION
N	
N	NORTH / NITROGEN
N2O	NITROUS OXIDE
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOT RATED
NTS	NOT-TO-SCALE
O	
O2	OXYGEN
O/C	ON-CENTER
OA	OVERALL
OD	OUTSIDE DIAMETER / OUTSIDE DIMENSION
OFCI	OWNER FURNISHED AND CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OFI	OWNER FURNISHED AND OWNER INSTALLED
OH	OVERHEAD
OL	OCCUPANT LOAD
OLF	OCCUPANT LOAD FACTOR
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OZ	OUNCE
P	
P	POWER
PA	PUBLIC ADDRESS
PB	PARTICLE BOARD
PC	PRECAST
PERF	PERFORATED
PERP	PERPENDICULAR
PG	PLATE GLASS
PH	PHASE
PIR	POLYISOCYANURATE RIGID INSULATION
PL	PLASTIC LAMINATE / PLATE / PROPERTY LINE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POL	POLISH
PP	PUSH PLATE
PPT	PORCELAIN PAVER TILE
PR	PAIR
PREFAB	PREFABRICATE
PROVID	PROVIDED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESERVATIVE TREATED / POINT / POST-TENSIONED
PTC	PLASTIC TOILET COMPARTMENT
PTD	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWC	PROTECTIVE WALL COVERING

Q	
QT	QUARRY TILE
QTR	QUARTER
QZ	QUARTZ
R	
R	RISER / RADIUS
R&S	ROD & SHELF
RAD	RADIUS
RAF	RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE
RCF	REFLECTED CEILING PLAN
RD	ROOF DRAIN / ROAD
REBAR	REINFORCING BAR
REC	RECESSED
RECEP	RECEPTION
RECEPT	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTRATION / REGISTER
REINF	REINFORCED
REMO	REMOVE / REMOTE
REQ(D)	REQUIRED
RES	RESINOUS FLOORING
RET	RETAINING / RETURN
REV	REVERSE / REVISION
RH	RIGHT HAND
RL	RAINLEADER
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RSF	RESILIENT SHEET FLOOR
RTF	RESILIENT TILE FLOOR
S	
S	SOUTH / SHELF
SAFB	SOUND ATTENUATION FIRE BLANKET
SB	SMOKE BARRIER
SC	SOLID CORE / SHOWER CURTAINS / SMOKE COMPARTMENT
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCR	SHOWER CURTAIN ROD
SCS	SPECIALTY CEILING SYSTEM
SCWD	SOLID CORE WOOD DOOR
SCX	SMOKE COMPARTMENT EXIT
SD	SOAP DISPENSER / SEE DETAIL
SEC	SECOND
SECT	SECTION
SF	SQUARE FEET
SGC	STAGE CURTAINS
SHT	SHEET
SHTG	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SL	SLOPE
SLNT	SEALANT
SND	SANITARY NAPKIN DISPENSER
SNW	SANITARY NAPKIN WASTE RECEPTAL
SP	SPANDREL PANEL / SMOKE PARTITION
SPEC	SPECIFICATION
SQ	SQUARE
SSP	SOLID SURFACE
STSL	STAINLESS STEEL
ST	STONE
STA	STATION
STC	SOUND-TRANSMISSION CLASS
STD	STANDARD
STE	SUITE
STL	STEEL
STN	WOOD STAINING
STOR	STORAGE
STR	STAIR TREADS/RISERS
STRUCT	STRUCTURE / STRUCTURAL
STA	SUITE EXIT
SURF	SURFACE
SUSP	SUSPENDED
SYM	SYMMETRICAL

T	
T	TOP / TREAD / TILE
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TA	TOILET ACCESSORIES
T8	TOWEL BAR
TBD	TO BE DETERMINED
TDX	TRAVEL DISTANCE TO EXIT
TEL	TELEPHONE
TEMP	TEMPERED / TEMPORARY / TEMPERATE
TER	TERRAZZO
TFF	TOP OF FINISH FLOOR
TG	TEMPERED GLASS
THK	THICK
THS	THRESHOLD
TJE	TOP OF JOIST ELEVATION
TKBD	TACK BOARD
TLT	TOILET
TO	TOP OF
TOL	TOLERANCE
TOPO	TOPOGRAPHICAL
TPD	TOILET PAPER DISPENSER
TS	TRANSITION STRIPS
TSE	TOP OF SLAB ELEVATION
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL
U	
UC	UNDER COUNTER
UG	UNDERGROUND
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPH	FABRIC/VINYL
UTIL	UTILITY
V	
V	VINYL
VAC	

DOOR SCHEDULE												
DR #	ROOM NAME	DOOR PANEL(S)			DOOR FRAME		DETAILS - SEE SHEET A021			FIRE RATING	HDWE GROUP	NOTES
		SIZE	MTRL	TYPE	MTRL	TYPE	HEAD	JAMB	SILL			
101A	AUDITORIUM	(2) 3'-0" x 7'-0"	HM	F	HM	HM-00	5	6		--	1	1, 2
101B	AUDITORIUM	(2) 3'-0" x 7'-0"	HM	F	HM	HM-00	5	6		--	1	1, 2
101C	AUDITORIUM	(1) 3'-0" + (1) 1'-8" x 7'-0"	HM	F	HM	HM-01	3	4		--	2 (BASE BID), 2.1 (ALT)	1, 3
104	CORRIDOR	EX.	EX. HM	EX. F	EX. HM	--	--	--		--	3.1 (ALT)	3, 4, 5

DOOR SCHEDULE NOTES

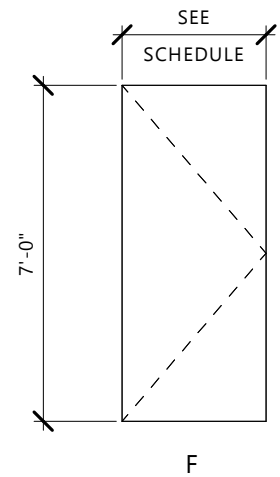
- DOUBLE DOOR
- NEW DOOR & FRAME IN EXISTING DOOR OPENING
- AUTOMATIC DOOR OPERATOR (ALTERNATE)
- EXISTING HM EXTERIOR DOUBLE DOORS AND FRAME
- DOOR ACCESS (ALTERNATE)

GENERAL INTERIOR PARTITION NOTES

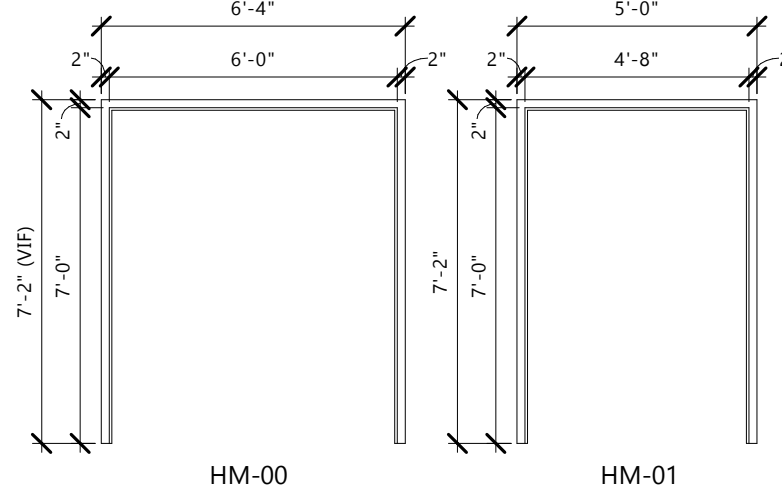
- SEE FLOOR PLANS FOR EXTENT OF EACH WALL
- ALL PARTITIONS CONTAINING PLUMBING OR HAVING AN EXTERIOR FACE SHALL BE INSULATED.
- WHERE GYPSUM BOARD EXTENDS TO UNDERSIDE OF STRUCTURE ABOVE, STOP GYPSUM BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL AS REQUIRED.
- REFERENCE FLOOR FINISH PLANS AND WALL FINISH PLANS FOR ADDITIONAL FINISHES NOT INDICATED ON PARTITION TYPES.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF WALL PENETRATIONS. SEAL ALL OPENINGS WITH ACOUSTICAL SEALANT.
- PROVIDE FIRE-TREATED WOOD OR STEEL BACKING FOR ALL WALL-MOUNTED FINISH CARPENTRY, ARCHITECTURAL WOODWORK, TOILET PARTITIONS, ACCESSORIES AND OTHER SIMILAR ITEMS, INCLUDING OWNER PROVIDED ITEMS.

FIRE-RATED PARTITION NOTES:

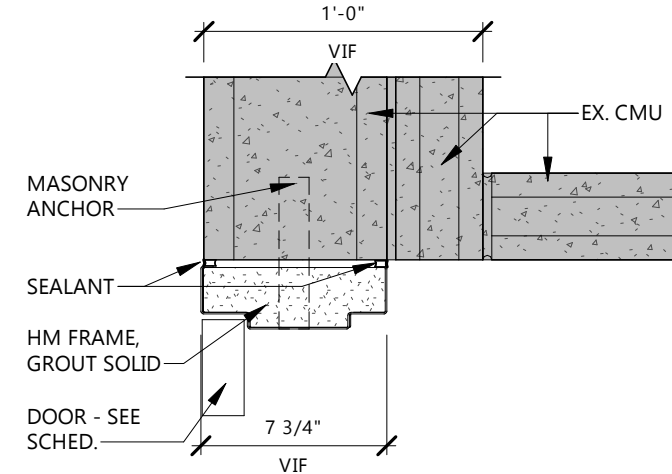
- ALL PARTITIONS NOTED TO BE FIRE-RESISTANCE RATED SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FIRE RESISTANCE TESTS.
- FIRE-RATED PARTITIONS SHALL BE CONSTRUCTED BEFORE NON-RATED PARTITIONS.
- ALL FIRE-RATED PARTITIONS TO EXTEND FROM TOP OF UNFINISHED FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. SEAL TOP, BOTTOM AND ALL PENETRATIONS WITH FIRE-RATED SEALANT.
- ALL PENETRATIONS IN FIRE-RATED PARTITIONS SHALL BE SEALED WITH MATERIALS, SEALANTS AND/OR ASSEMBLIES WHICH MAINTAIN THE FIRE-RESISTANCE RATING OF THE PARTITION



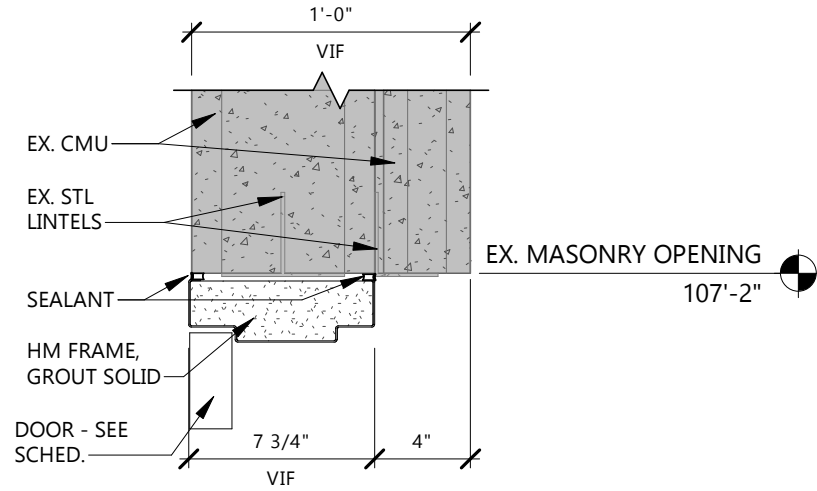
DOOR PANEL TYPES



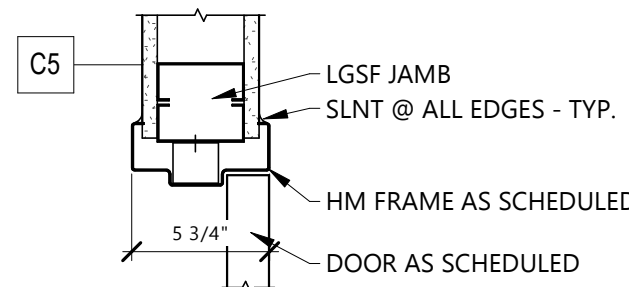
DOOR FRAME TYPES



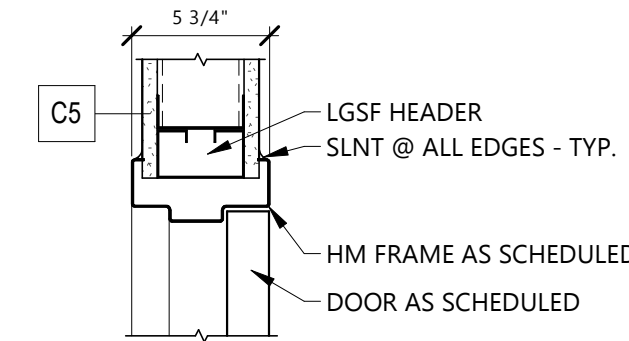
6 DOOR JAMB DETAIL @ EXISTING
A021 1 1/2" = 1'-0"



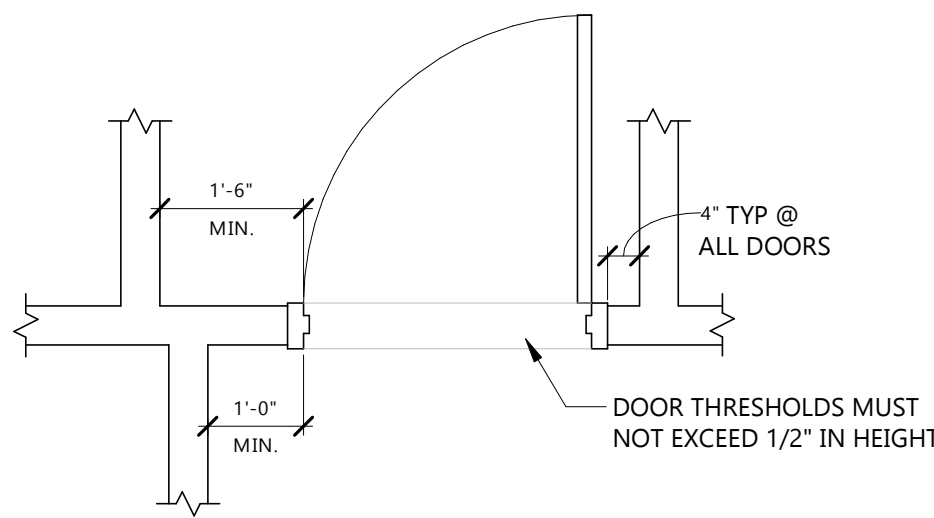
5 DOOR HEAD DETAIL @ EXISTING
A021 1 1/2" = 1'-0"



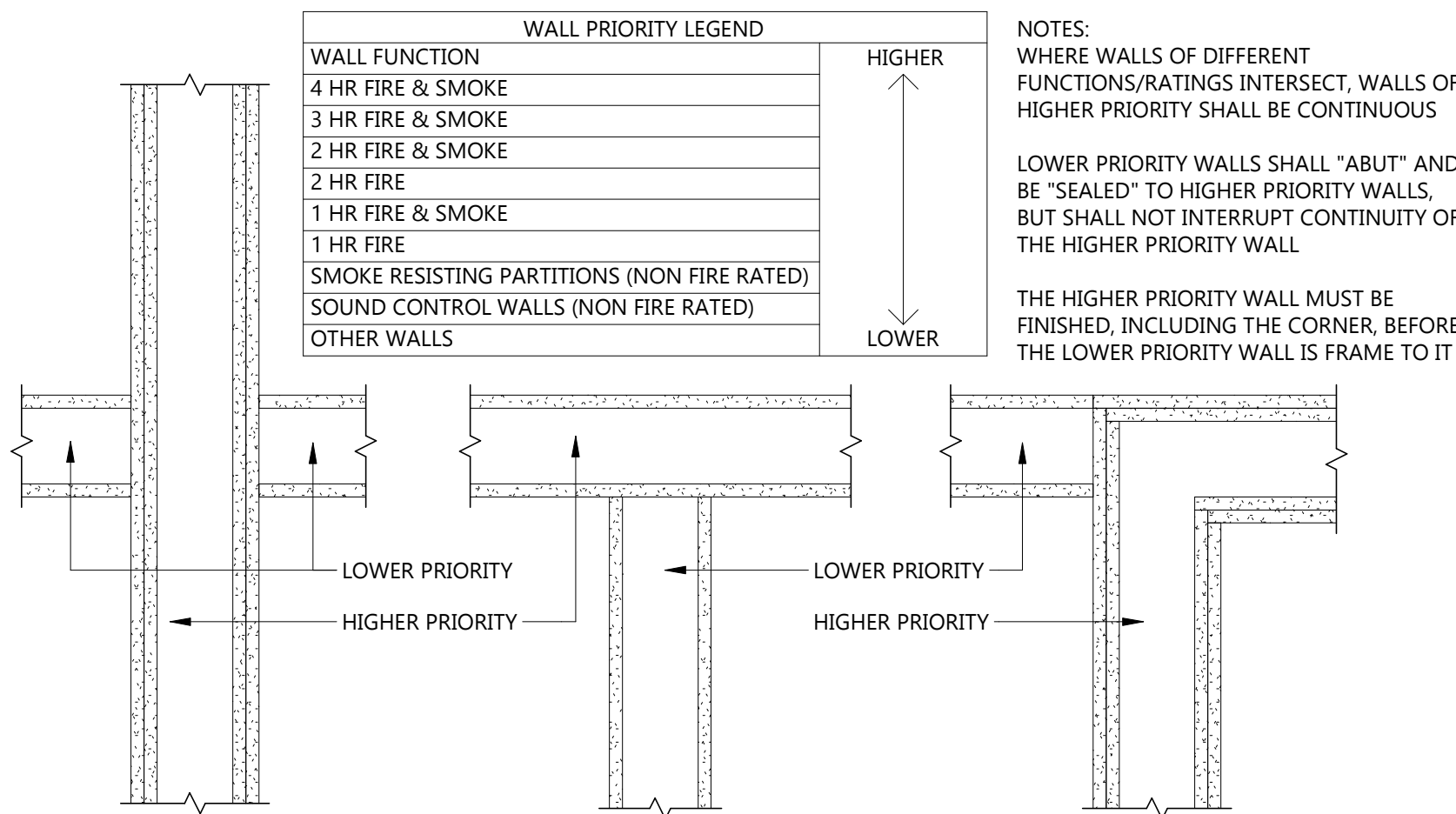
4 DOOR JAMB DETAIL
A021 1 1/2" = 1'-0"



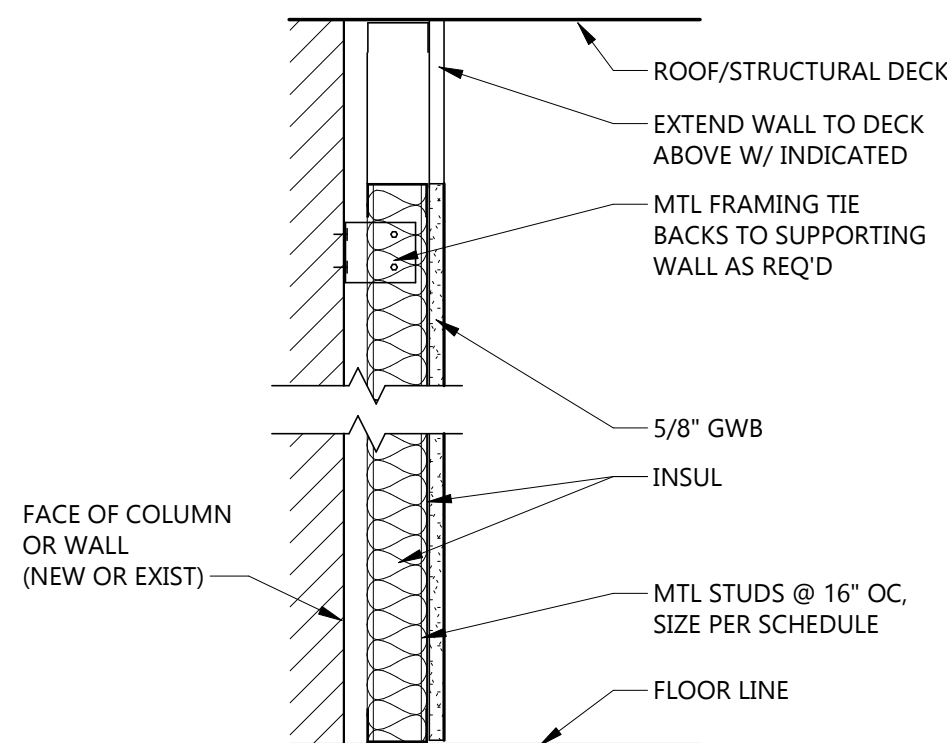
3 DOOR HEAD DETAIL
A021 1 1/2" = 1'-0"



2 ADA DOOR CLEARANCES
A021 1/2" = 1'-0"

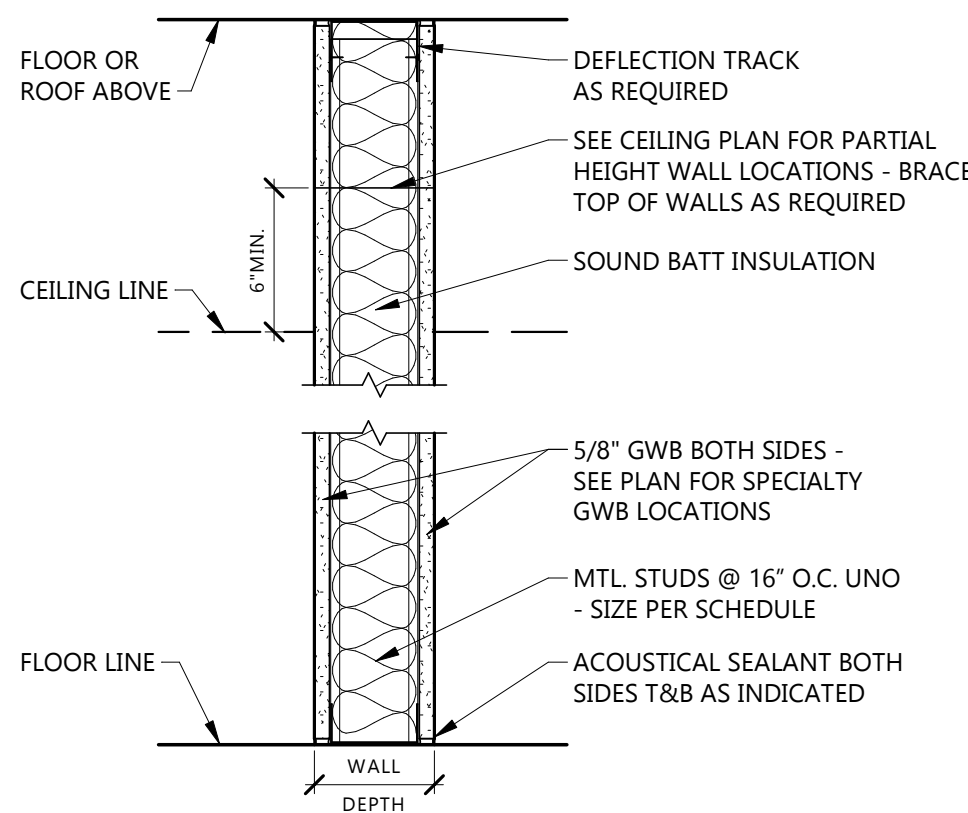


1 WALL PRIORITY LEGEND
A021 1 1/2" = 1'-0"



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION			NOTES
					SAB	STC	TEST	
J4	3 5/8"	4 1/4"	NR					
J5	4"	4 5/8"	NR					

J NON-RATED METAL STUD FURRED WALL



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION			NOTES
					SAB	STC	TEST	
A5	3 5/8"	4 7/8"	NR		3 1/2"			

A NON-RATED GWB ON METAL STUDS

Architecture	Engineering
Interior Design	Industrial

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CONSULTANTS

THEATRE PLANNERS | LIGHTING DESIGNERS

CLIENT
MINOT STATE UNIVERSITY

PROJECT DESCRIPTION
HOFFMAN AUDITORIUM RENOVATION - CYRIL MOORE HALL

CITY MINOT
STATE ND

ISSUE DATES

CD	CONSTRUCTION DOCUMENTS	09/04/2026
MARK	DESCRIPTION	DATE

PROJECT NO: 20262120
DRAWN BY: MGB
CHECKED BY: SH

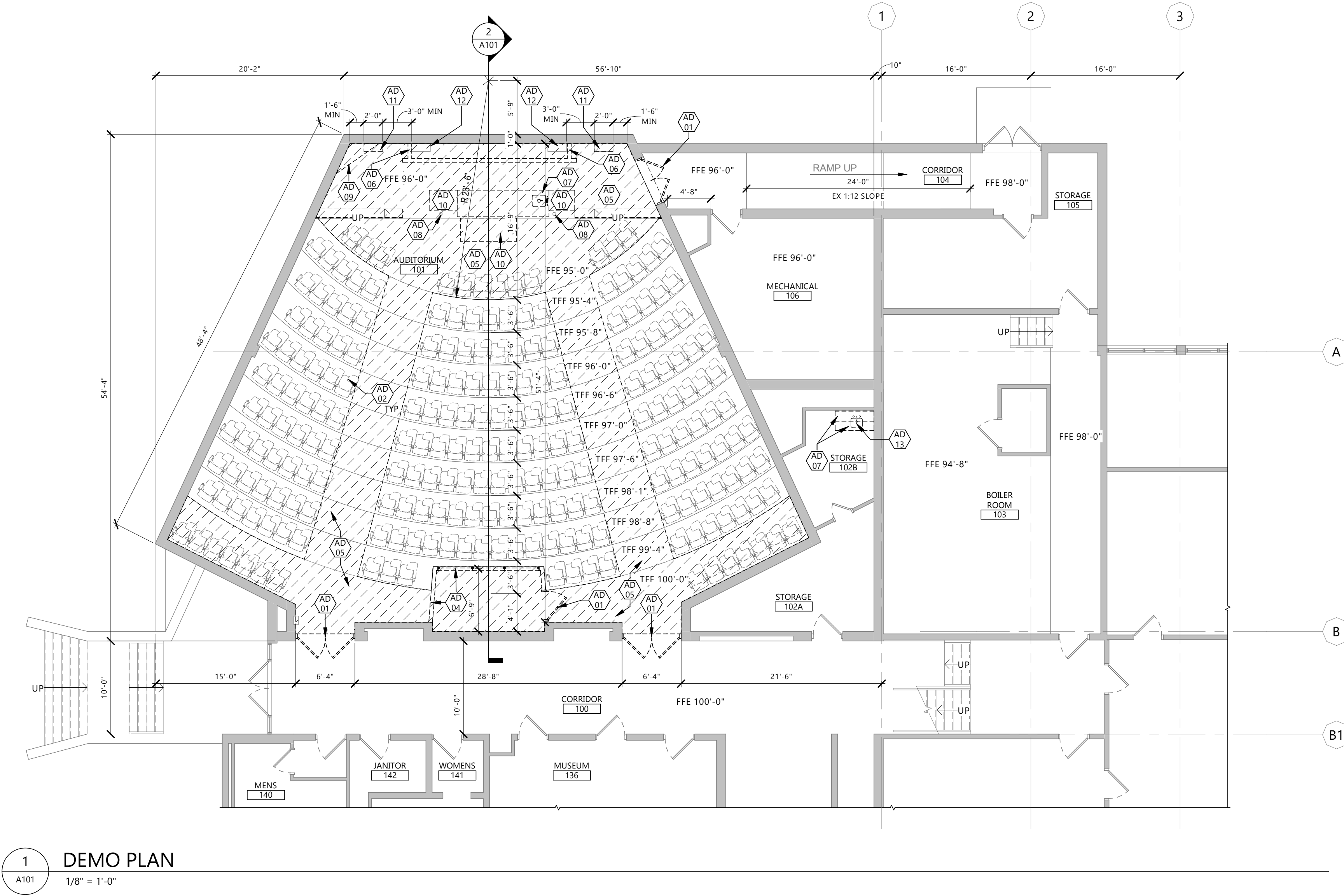
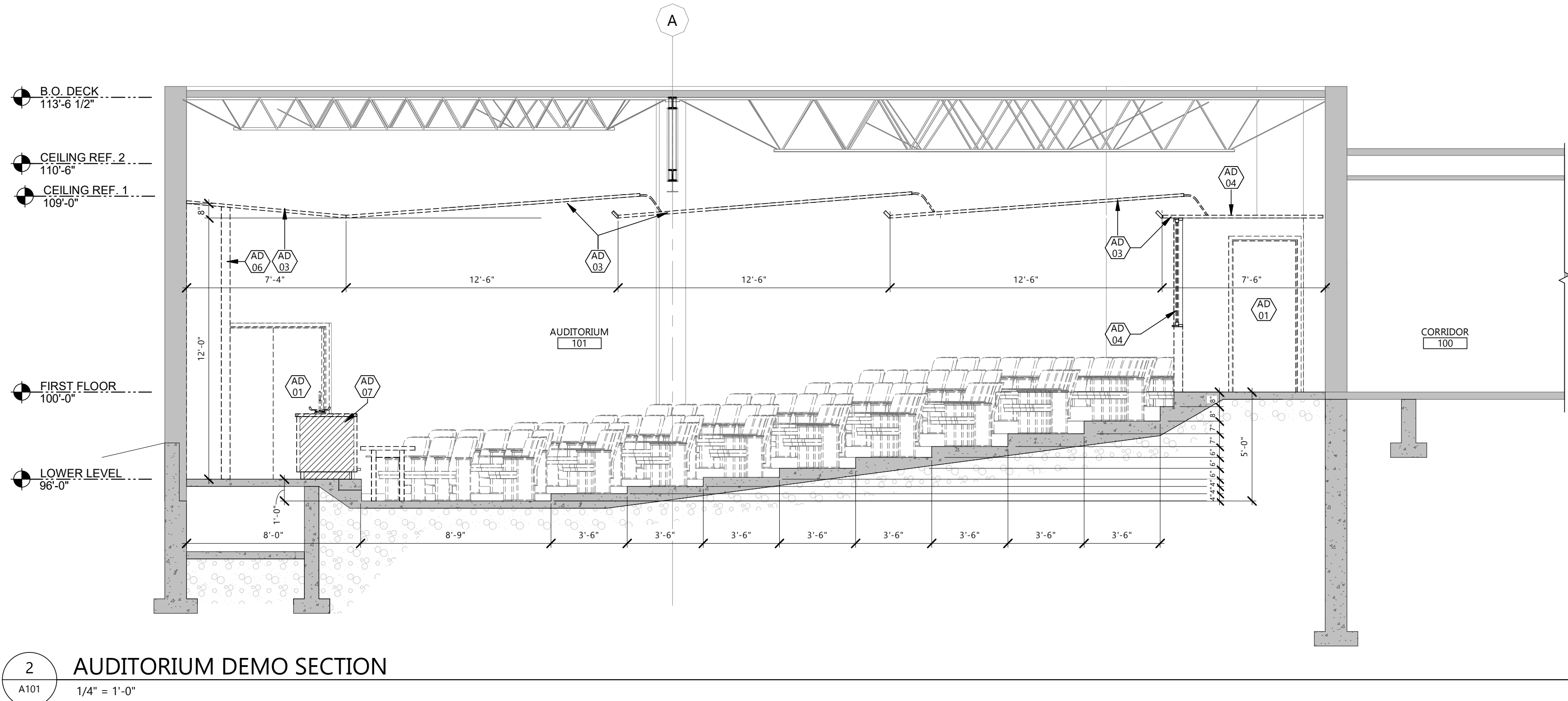
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STAMP

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.
Signature: Shawn Crowley
Date: 9/4/2026 REG. NO. : 2162

DRAWING TITLE
WALL TYPES AND DOOR INFORMATION

A021



DEMOLITION LEGEND

INDICATES DEMOLISHED OBJECTS

INDICATES DEMOLISHED AREAS

INDICATES EXISTING WALLS TO STAY IN PLACE

2026

Architecture
Interior DesignEngineering
Industrial

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- GENERAL DEMOLITION NOTES
1. DASHED LINES INDICATE DEMOLITION ITEMS, SOLID LINES INDICATE EXISTING ITEMS TO REMAIN. ALSO REFER TO SHEET AD01 FOR SYMBOLS AND ABBREVIATIONS.

2. ALL DEMOLITION WORK AND TEMPORARY INSTALLATIONS SHALL BE ACCOMPLISHED AS SPECIFIED.

3. CONTRACTOR TO PROVIDE SECURE DOORS IN TEMP PARTITIONS AS NECESSARY TO MAINTAIN BUILDING SECURITY. PROVIDE CLEAR ROUTES TO EXITS FROM WORK AREA.

4. FIELD VERIFY EXISTING CONDITIONS OF EACH FLOOR AND AREA TO BE DEMOLISHED.

5. DEMOLITION PLANS REPRESENT APPROXIMATE LOCATION OF EXISTING WALLS TO BE DEMOLISHED. FIELD VERIFY TYPE OF CONSTRUCTION AND HEIGHT OF WALLS. PLANS DO NOT NECESSARILY INDICATE ALL DEMO WALLS, COUNTERS, HANDRAILS, WALL PROTECTION, CLOSETS, SINKS, ETC. PRIOR TO DEMOLITION WALLS VERIFY THAT WALLS TO BE REMOVED DO NOT PROVIDE SUPPORT FOR EXISTING BUILDING ELEMENTS AND EXISTING CONSTRUCTION TO REMAIN. NOTIFY A/E IF DEMOLITION WALLS SUPPORT EXISTING BUILDING ELEMENTS.

6. FIELD VERIFY EXISTING MATERIALS IN AREAS OF DEMOLITION.

7. REMOVE ALL MECHANICAL AND ELECTRICAL EQUIPMENT, DEVICES AND ASSOCIATED ELEMENTS AS INDICATED IN MECH AND ELEC DRAWINGS. FIELD VERIFY THE PRESENCE OF MECHANICAL AND ELECTRICAL PIPES, CONDUIT, ETC. IN ALL WALLS TO BE DEMOLISHED.

8. CONTRACTOR TO PROVIDE DEMOLITION IMPLEMENTATION PLANS AND SCHEDULE. NOTIFY OWNER IF ANY OPERATIONAL DISRUPTIONS OF ADJACENT OCCUPANTS ARE REQUIRED TO PERFORM NEW WORK (INCLUDING BUT NOT LIMITED TO: MECHANICAL, PLUMBING, FIRE SUPPRESSION, AND ELECTRICAL DISRUPTIONS).

9. CONTAIN DUST AND DEBRIS WITHIN THE DEMOLITION AREA.

10. DEMOLISH AND REMOVE DOORS, VINYL BASE, CONDUIT, WIRING, DUPLEXES, TELEPHONE OUTLETS, CABLES, SHELVING, METAL STUDS, AND GYPSUM BOARD WALLS, CLOSETS, CABINETS, FILES, COUNTERS, WOOD MOULDING, SHELVES AND ENCLOSURES WHERE APPLICABLE.

11. DEMOLISH AND REMOVE CARPET, PAD, TACK STRIP, AND RESILIENT BASE. REMOVE ALL FLOOR MATERIALS INCLUSIVE OF SETTING BEDS, SUBFLOOR MATERIAL ETC. REMOVE MASTIC TO PROVIDE A CLEAN FLOOR THAT IS ACCEPTABLE TO THE SUBCONTRACTOR INSTALLING NEW FINISH MATERIAL. SPACES RECEIVING WALL DEMOLITION WILL ALSO HAVE FLOOR FINISH DEMOLITION UNO.

12. DEMOLISH AND REMOVE SUSPENDED ACOUSTIC LAY-IN, SPLINE, OR GYPSUM/ PLASTER CEILING INCLUSIVE OF HANGERS AND CARRYING CHANNELS, WIRES, CABLES, CONDUIT, ADHERED CEILING TILES, FLEX CONDUIT, ELECTRICAL BOXES, SMOKE DETECTORS, LIGHT FIXTURES, AND WIRING, DUCT WORK, PIPING AND SUPPORT HANGERS. CUT HANGERS FLUSH. SPACES RECEIVING WALL DEMOLITION WILL ALSO HAVE CEILING DEMOLITION UNO.

13. PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS, CONTRACTOR SHALL IDENTIFY ALL UTILITIES TO REMAIN.

14. DEMOLITION FOR THE FLOOR AREAS SHALL ENCOMPASS THE SPACE FROM THE TOP OF THE CONCRETE FLOOR TO THE UNDERSIDE OF THE EXISTING INTERSTITIAL STRUCTURE ABOVE UNLESS NOTED OTHERWISE.

15. ALL DEMOLITION MATERIALS AND DEBRIS SHALL BE DISPOSED OF ACCORDING TO FEDERAL STATE AND LOCAL REGULATIONS.

16. CONTRACTOR SHALL PERFORM WORK IN A MANNER THAT DOES NOT DAMAGE THE EXISTING STRUCTURE. DEMOLITION SHALL NOT COMPROMISE THE STRUCTURAL INTEGRITY OF ANY WALLS, FLOORS, CEILING, SUPPORTS, STRUCTURE, ETC. TO REMAIN.

17. AT LOCATIONS WHERE EXISTING WALLS ARE TO BE REMOVED NEAR EXISTING WALLS TO REMAIN, PERFORM DEMOLITION WITHOUT DISTURBING EXISTING ELEMENTS TO REMAIN. WALLS TO REMAIN SHALL BE INTACT AND HAVE A NEAT, FINISHED SURFACE WHERE EXPOSED.

18. CONTRACTOR TO PROVIDE TEMPORARY GUARDS AND PROTECTION AROUND EXPOSED FLOOR AND ROOF OPENINGS AND SHAFTS PER CODE.

19. TYPICAL DOOR REMOVAL INCLUDES HARDWARE AND FRAME UNO.

20. THE OWNER HAS FIRST RIGHT TO REFUSAL FOR SALVAGEABLE ITEMS. RELOCATED SUCH SALVAGED ITEMS TO STORAGE LOCATION AS OWNER MAY DESIGNATE WITHIN PROJECT SITE.

21. DEMOLITION ITEMS SHALL INCLUDE, BUT NOT BE LIMITED TO ITEMS IDENTIFIED ON THESE DRAWINGS. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND BE FAMILIAR WITH THE WORK REQUIRED.

22. DEMOLITION TO OCCUR IN TWO PHASES WITH THE REMOVAL OF THE SEATING AND ANY FLOOR OBSTRUCTIONS NEEDING TO BE COMPLETED FIRST BEFORE THE CEILING PLASTER ABATEMENT CAN BE COMPLETED. THE REMAINDER OF THE DEMOLITION WILL FOLLOW.

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

AD 01

REMOVE EXISTING DOOR, FRAME AND DOOR HARDWARE.

AD 02

REMOVE EXISTING SEATING.

AD 03

REMOVE EXISTING CEILING FRAMING AND REMAINING LATH. PLASTER TO BY REMOVED BY OWNER'S ABATEMENT CONTRACTOR.

AD 04

REMOVE EXISTING PROJECTOR ROOM WALLS & WINDOW/FRAME.

AD 05

REMOVE EXISTING CARPET & TRANSITION STRIPS.

AD 06

REMOVE EXISTING WALL.

AD 07

REMOVE EXISTING CASEWORK AND COUNTERTOP - SEE MECH FOR PLUMB DEMOLITION.

AD 08

EXISTING MECH VENTS TO REMAIN.

AD 09

REMOVE EXISTING WOOD MAP BOARD.

AD 10

REMOVE EXISTING DESK.

AD 11

DEMO FLOOR FOR NEW 10"x24" OPENING. DO NOT OVERCUT SLAB BEYOND THE CORNERS OF NEW SLAB OPENINGS. PRE-DRILL CORNERS OF NEW OPENING TO PREVENT OVERCUTTING.

AD 12

EX. 10"x24" OPENING.

AD 13

CAP EX. WATER LINE - SEE MECH.

2026

CD

CONSTRUCTION
DOCUMENTS

09/04/2026

MARK

DESCRIPTION

DATE

2026

Architecture
Interior Design

Engineering
Industrial

TELEPHONE701.839.4547

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THEATRE PLANNERS | LIGHTING DESIGNERS

Schuler Shook

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MINOT STATE
UNIVERSITY

PROJECT DESCRIPTION

HOFFMAN
AUDITORIUM
RENOVATION - CYRIL
MOORE HALL

CITY

MINOT

STATE

ND

ISSUE DATES

2026

PROJECT NO:

20262120

DRAWN BY:

MGB

CHECKED BY:

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Signature: Shawn Crowley

Date: 9/4/2026

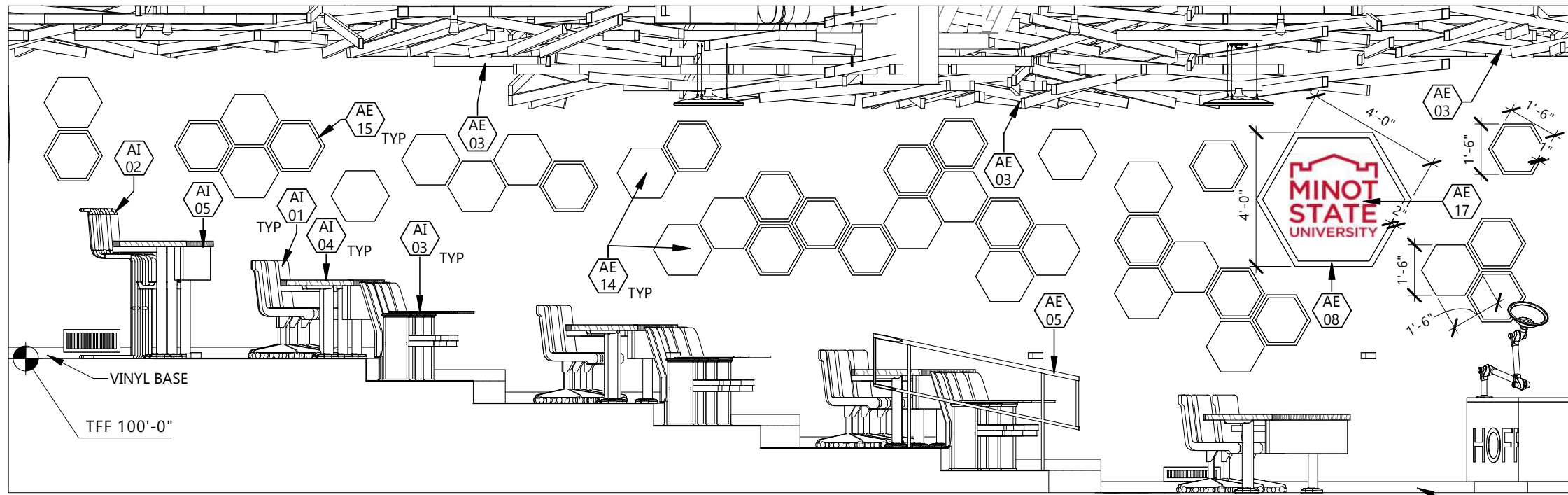
REG. NO. : 2162

DRAWING TITLE

DEMOLITION PLAN

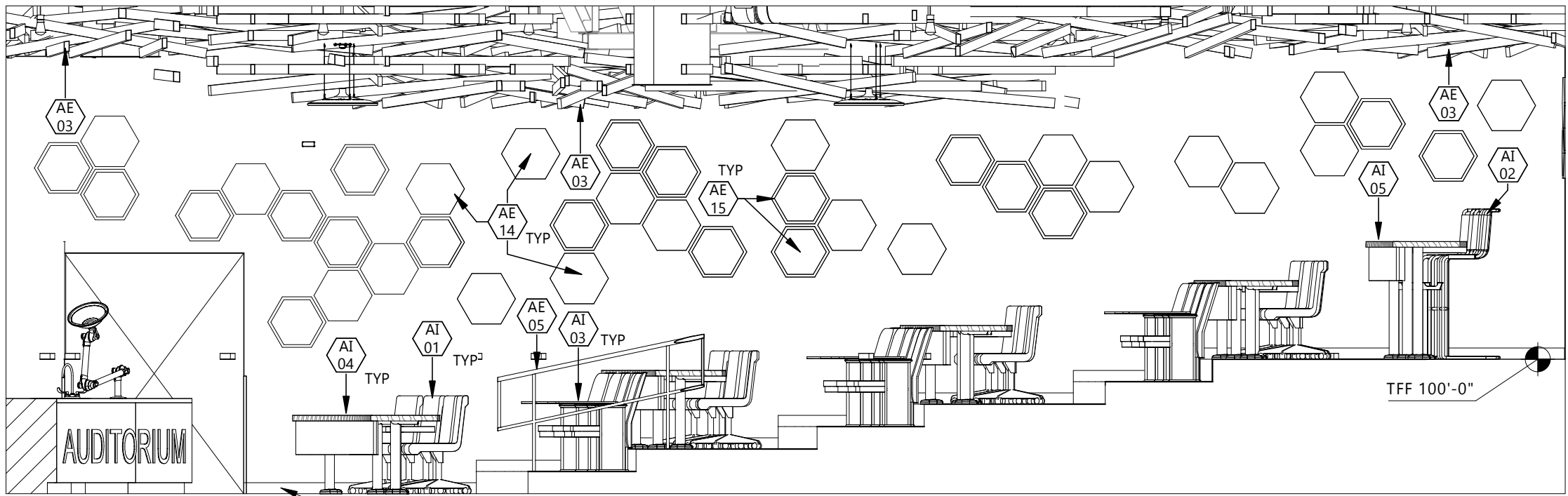
2026

A101



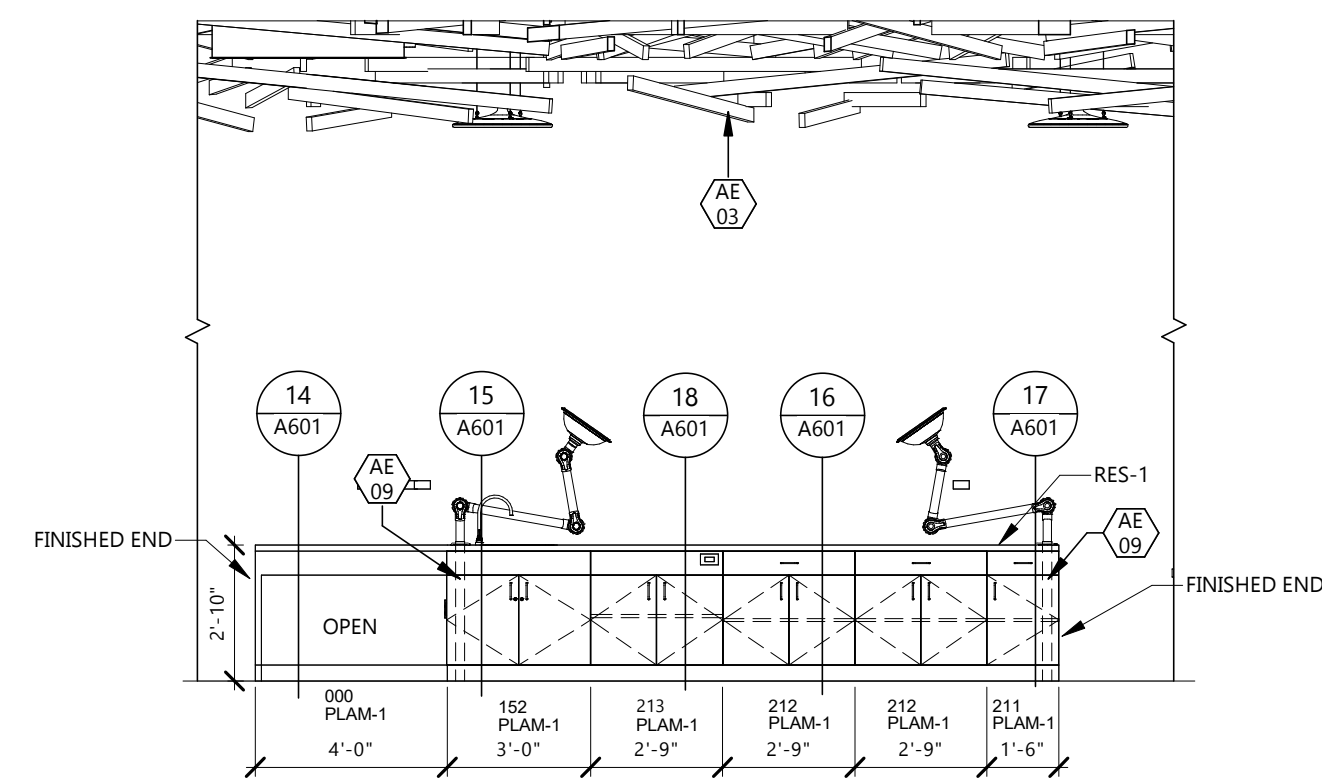
6 AUDITORIUM - SOUTH ELEVATION

A201 1/4" = 1'-0"



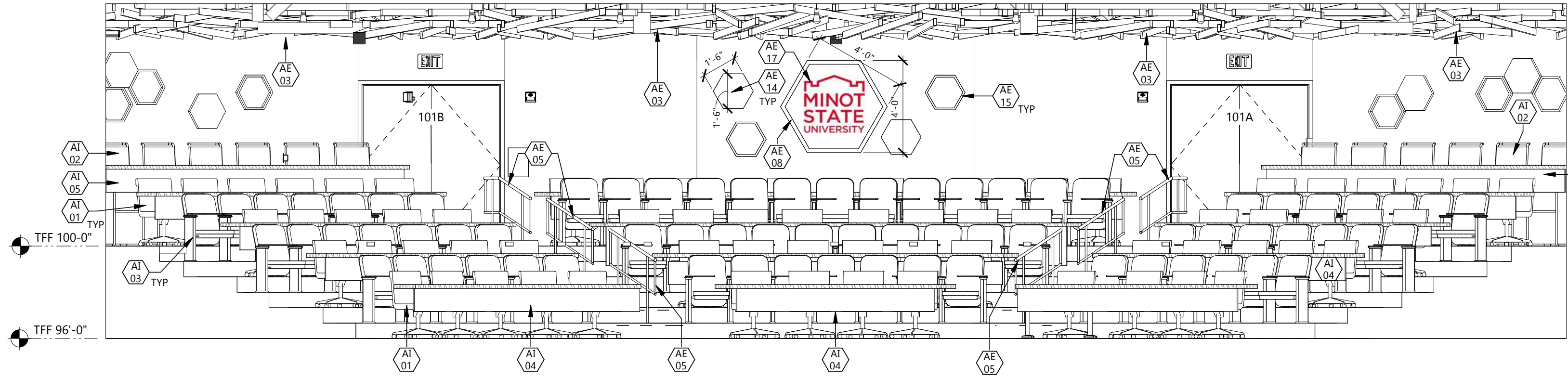
5 AUDITORIUM - NORTH ELEVATION

A201 1/4" = 1'-0"



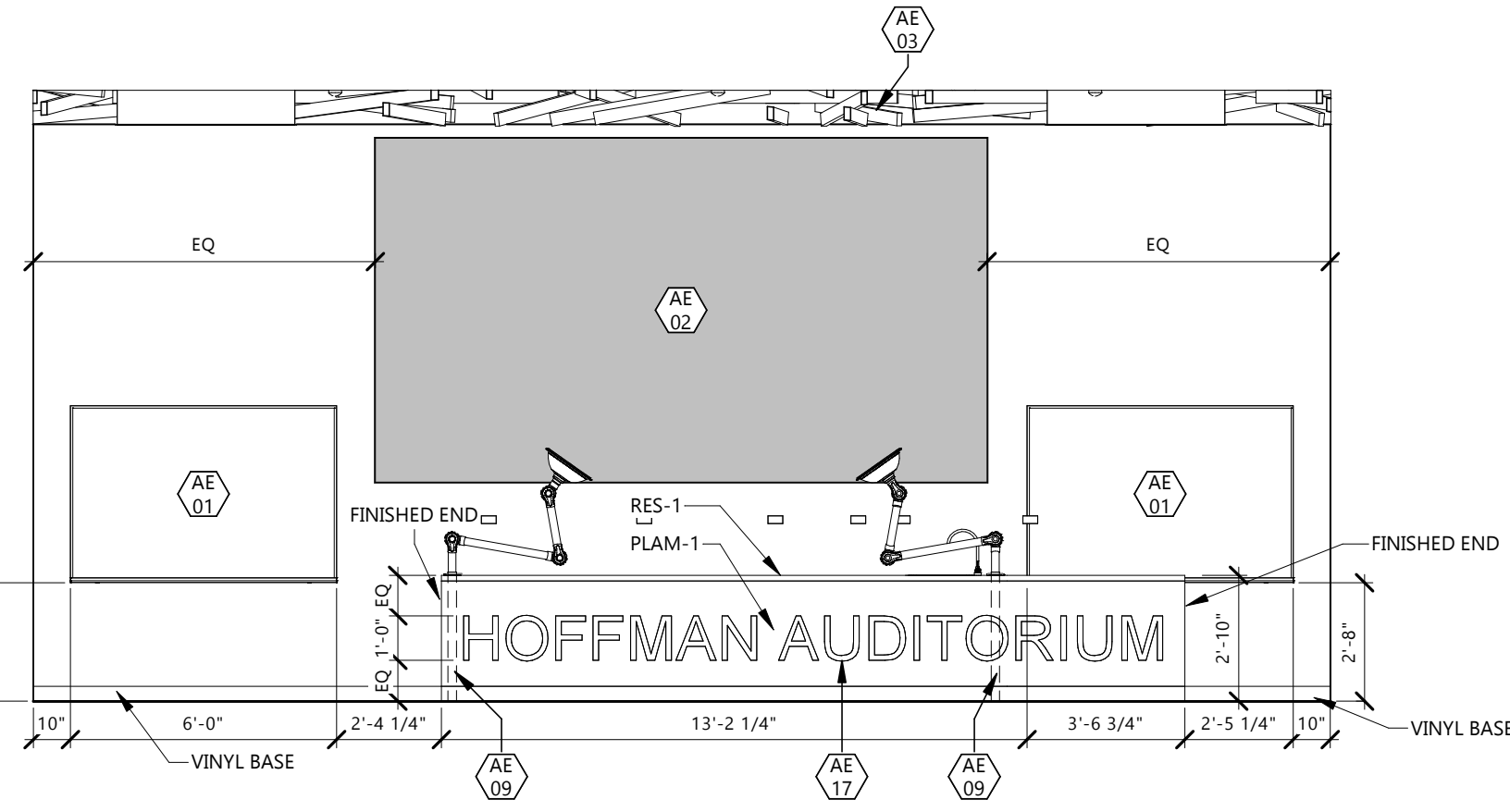
4 COUNTER ELEVATION

A201 1/4" = 1'-0"



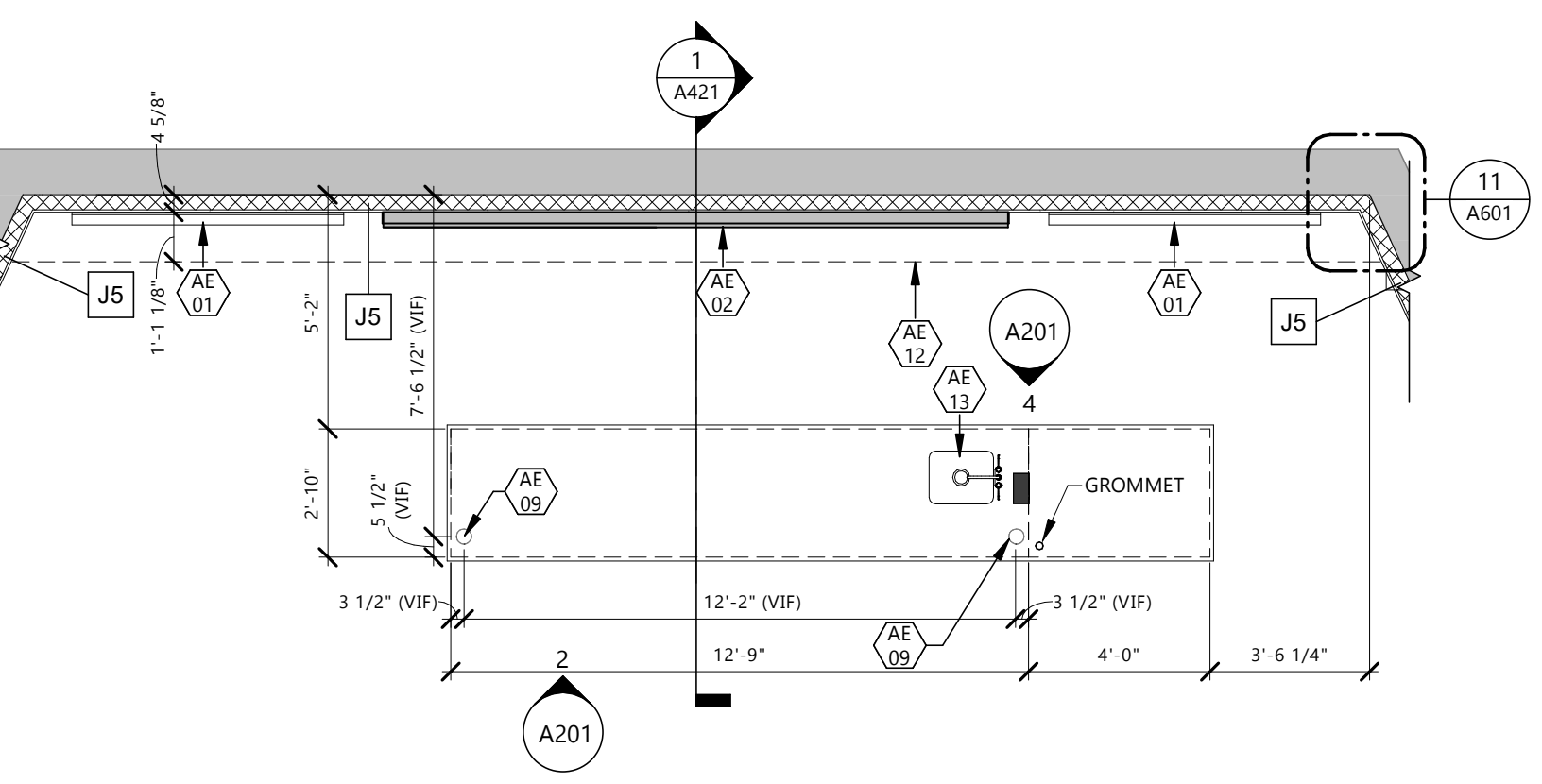
3 AUDITORIUM - WEST ELEVATION

A201 1/4" = 1'-0"



2 AUDITORIUM - EAST ELEVATION

A201 1/4" = 1'-0"

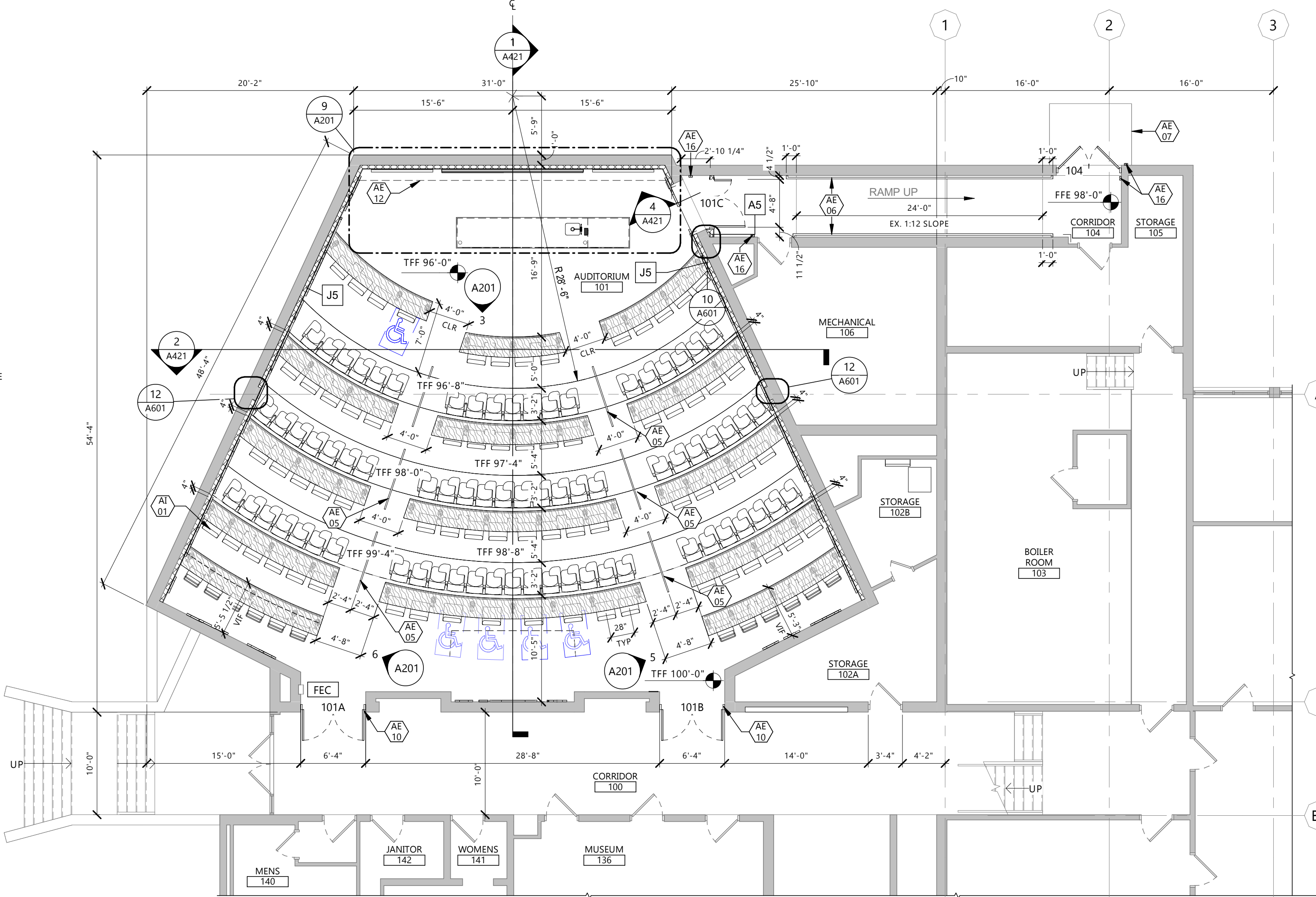


9 ENLARGED PLAN

A201 1/4" = 1'-0"

1 FLOOR PLAN W/ FRONT & REAR TABLES (APPROX. 144 SEATS + 5 ADA)

A201 1/8" = 1'-0"



GENERAL NOTES

- GENERAL NOTES APPLY TO ALL DRAWING SETS
- SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. ALL NOTES ARE TO BE ADDED TO THE DRAWINGS DOCUMENTS.
- FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES OCCUR BEFORE AND / OR DURING CONSTRUCTION.
- CROSS REFERENCES SHOWN ON DRAWINGS DO NOT NECESSARILY INDICATE ALL LIKE CONDITIONS AND DO NOT LIMIT APPLICATION OF ANY DRAWING OF DETAIL WHERE SPECIFIC DIMENSIONS, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED. CONSULT THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- REVIEW SPECIFICATIONS FOR INSTRUCTIONS NOT SHOWN ON DRAWINGS. INFORMATION COMMON TO SEVERAL DRAWINGS MAY BE NOTED ON ONLY ONE. CONTRACTOR IS RESPONSIBLE FOR ENTIRE SET OF DOCUMENTS.
- ALL NEW CONSTRUCTION IS INDICATED BOLD OR FULL TONE
- DIMENSIONS AT INTERIOR PARTITIONS ARE TO THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.
- PROVIDE FIRE RETARDANT WOOD BACKING AND / OR BLOCKING IN WALLS AS REQUIRED AT ALL WALL. THE EXISTING WALLS, REMOVE WALL MATERIAL TO INSTALL FIRE-TREATED WOOD BACKING/BLOCKING FOR NEW WALL-MOUNTED ITEMS.
- DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR TO VERIFY ALL DIMENSIONS & FIELD CONDITIONS PRIOR TO COMMENCING THE WORK.
- REFER TO INTERIORS SHEET A901 FOR CORNER GUARD LOCATIONS AND DETAILS, FOR WALL PROTECTION AND HAND RAIL LOCATIONS AND DETAILS.
- PATCH ALL HOLES IN EXISTING SURFACES & WHERE EQUIPMENT HAS BEEN REMOVED OR DEMOLITION HAS OCCURRED & PREPARE WALL SURFACES (PATCH, SKIM COAT, ETC.) AS REQUIRED IN PREPARATION FOR NEW FINISHES SCHEDULED. PATCH TO MATCH ADJACENT SURFACES IF NOT SCHEDULED.
- CAULK ALL COUNTERTOPS, BACKSPASHES & CABINETS AT LOCATIONS WHERE THEY MEET WALL. SEAL ALL CUT-OUTS IN COUNTERTOPS.
- ALL EXISTING CONSTRUCTION, CABINET WORK, EQUIPMENT, ETC. TO REMAIN INDICATED AS LIGHT OR HALF TONE.
- ALL PIPING, CONDUITS, & RELATED MECHANICAL & ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN DRYWALL AND/OR PLASTER FURRING AS REQUIRED IN FINISHED AREAS WHETHER SHOWN ON DRAWINGS OR NOT UNLESS OTHERWISE NOTED.
- SEAL AROUND ALL MECHANICAL & ELECTRICAL EQUIPMENT PENETRATIONS AT RATED WALLS, ABOVE & BELOW CEILINGS, WITH A UL APPROVED FIRE-STOPPING MATERIAL - SEE SPECIFICATIONS.
- WHEN WALL PARTITIONS OF DIFFERENT RATING INTERSECT, THE HIGHEST RATED PARTITIONS TAKE PRECEDENT.
- ALL FURNITURE FOR REFERENCE ONLY (SHOWN DASHED) WILL BE OWNER FURNISHED & OWNER INSTALLED.
- ERECT DUST PROOF PARTITIONS AS REQUIRED BY THE WORK ICRA TO PROTECT ADJACENT AREAS - REFER TO SPEC SECTION 00 9000.
- RADIUS EXPOSED COUNTERTOP CORNERS 2" RADIUS TYPICALLY. (2" WHERE 3MM EDGE BANDING, 1" RADIUS AT SSF EDGES.) U.N.O.
- ALL EXISTING FLOOR & WALL OPENING & DEPRESSIONS NOT USED IN THE NEW WORK SHALL BE FILLED OR CLOSED WITH MATERIALS TO MEET REQUIRED FIRE RATING & MATCH ADJACENT FINISHES.
- ALL CUTTING & PATCHING REQUIRED FOR NEW MECHANICAL & ELECTRICAL WORK IN ALL EXISTING SPACES SHALL BE BY THE RESPECTIVE CONSTRUCTION.
- MATCH FINISHED WALL THICKNESS WHERE NEW WALLS OCCUR IN LINE WITH EXISTING.
- ALL EXISTING CEILING & WALL GRILLES, DIFFUSERS, & LIGHTS ETC. TO REMAIN IN AREAS OF CONSTRUCTION SHALL BE CLEANED.
- VERIFY THAT THE EXISTING WALLS REQUIRING FIRE RATING ARE MAINTAINED, REPAIRED & EXTENDED TO STRUCTURE.
- FOR ALL NEW WALLS, SEE WALL TYPES SHEET A021.
- REFER TO LIFE SAFETY PLANS AND FLOOR PLANS FOR LOCATION OF REQUIRED FIRE BARRIER WALLS.
- REFER TO ELEVATIONS FOR WALL MOUNTED EQUIPMENT. PROVIDE IN-WALL BLOCKING AS REQUIRED.
- PROTECT ALL STRUCTURAL STEEL FIREPROOFING. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGED FIREPROOFING.
- PROVIDE 2X WOOD BLOCKING UNDER (2) LAYERS OF 3/4" PLYWOOD SHEATHING AT ALL FIXED SEATING AND FIXED TABLE ATTACHMENT LOCATIONS.

KEYNOTE LEGEND:

<<< INDICATES KEYNOTE ON PLAN

- AE 01 WHITEBOARD.
- AE 02 LED SCREEN - SEE AV DRAWINGS.
- AE 03 WD BEAVER DAM CEILING - SEE DRAWINGS A301-A330.
- AE 05 1 1/2" O.D. STL CENTER SEGMENTED HANDRAILS - SEE DETAIL 5/A421.
- AE 06 1 1/2" O.D. STL HANDRAILS - ALTERNATE.
- AE 07 SEE CIVIL DRAWINGS FOR NEW ADA RAMP - ALTERNATE.
- AE 08 LARGE BORDER ACOUSTICAL WALL PANEL WITH LOGO - SEE SPECS.
- AE 09 EXISTING 2" DIA. VENT PIPING THROUGH CASEWORK AND COUNTERTOP, FIELD VERIFY LOCATION - SEE MECH.
- AE 10 PATCH AND REPAIR SURFACES AS NEEDED AROUND NEW DOOR FRAME.
- AE 12 GYPBD. SOFFIT - SEE A421 AND MECH.
- AE 13 INTEGRAL EPOXY SINK - SEE SPECS.
- AE 14 SMALL SOLID ACOUSTICAL WALL PANELS - SEE SPECS.
- AE 15 SMALL BORDER ACOUSTICAL WALL PANELS - SEE SPECS.
- AE 16 AUTOMATIC DOOR OPERATOR CONTROL LOCATION.

KEYNOTE LEGEND: SEE MATERIAL IDENTIFICATION CODES ON A901

<<< INDICATES KEYNOTE ON PLAN

- AE 17 ACOUSTICAL WALL PANEL CUTOUTS - SEE SPECS.
- AI 01 CH-1- MOVABLE TASK CHAIR.
- AI 02 CH-2- MOVABLE TALL TASK CHAIR.
- AI 03 CH-3- FIXED AUDIENCE SEATING.
- AI 04 TB-1- FIXED TABLE WITH MODESTY AND POWER/ USB.
- AI 05 TB-2- FIXED TABLE (42"H) WITH MODESTY AND POWER/ USB.

CONSULTANTS

CLIENT

MINOT STATE
UNIVERSITY

PROJECT DESCRIPTION

HOFFMAN
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MOORE HALL

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CD	CONSTRUCTION DOCUMENTS	09/04/2026
MARK	DESCRIPTION	DATE

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DRAWING TITLE

FLOOR PLANS AND
ELEVATIONS

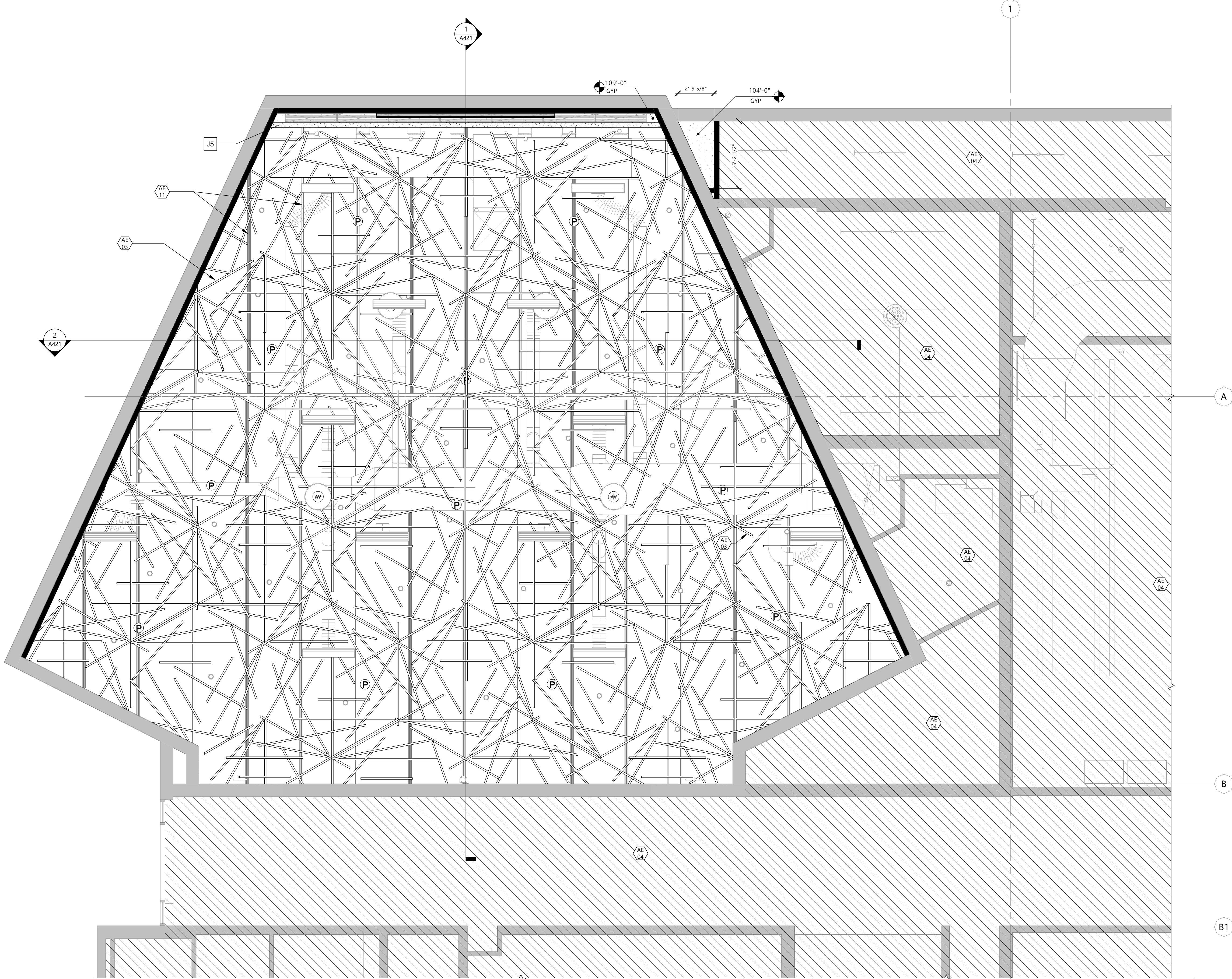
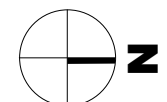
A201

Revit Version: 2025
Plot Date: 9/4/2026 11:36:42 AM

1
A301

REFLECTED CEILING PLAN

1/4" = 1'-0"



CEILING PLAN SYMBOLS

AIR DISTRIBUTION SYMBOLS		TYPICAL SUSPENDED CEILING GRID	
	SLOT OR LINEAR DIFFUSER OR RETURN		GYPSUM WALL BOARD OR PLASTER
	MICROPHONE		2X4 WOOD BEAVER DAM CEILING
	SMOKE DETECTOR		LIGHT FIXTURES
	VENT		PENDANT LIGHT
	LOUD SPEAKER		EXIT LIGHT
WALL HEIGHT			
	EXISTING WALL TO REMAIN		
	WALL TO EXTEND FULL HEIGHT TO STRUCTURE ABOVE		

GYPSUM CEILING NOTES

1. PROVIDE GYPSUM WALL BOARD AND METAL STUD BULK HEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
2. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN GRILLES AND EXHAUST GRILLES, ETC. SCRIBE CEILING MATERIALS FOR A TIGHT FIT.
3. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIALS FOR A TIGHT FIT. WHERE DEVICES ARE NOT SHOWN ON PLAN, FIELD VERIFY LOCATION AND QUANTITY PRIOR TO REMOVAL. THESE DEVICES WILL BE RELOCATED INTO NEW PLAN.
4. REFER TO AUDIO VISUAL DRAWINGS FOR QUANTITY AND TYPE OF SPEAKERS, MICS, POWER OUTLETS, CABLES, ETC.
5. CONTRACTOR TO FIELD VERIFY EXTENT OF CEILING REPLACEMENT. CONTRACTOR TO COORDINATE WITH ALL TRADES. CONTRACTORS OPTION TO REPLACE CEILING TO OWNER'S SATISFACTION OR TO PROVIDE NEW CEILING MATERIAL REPAIR ANY EXISTING AREAS DAMAGED BY CONSTRUCTION OF THIS PROJECT.
6. WHERE CEILINGS ARE INDICATED TO BE EXPOSED TO STRUCTURE, PAINT ALL UNFINISHED MATERIALS OVERHEAD INCLUDING, BUT NOT LIMITED TO, ROOF DECKING, JOISTS, DUCTS, PIPING, CONDUIT, ETC. SEE FINISHES SHEET FOR PAINT.
7. GENERAL CONTRACTOR TO COORDINATE CEILING MOUNTED EQUIPMENT SUPPORT REQUIREMENTS, LOCATIONS, DIMENSIONS, ETC. WITH EQUIPMENT SUPPLIER AND OWNER PRIOR TO INSTALLATION.
8. CEILING MOUNTED ITEMS SUCH AS LIGHT FIXTURES, GRILLES, DIFFUSERS, SPEAKERS, EXIT LIGHTS, ETC. SHALL BE LOCATED IN THE CENTER OF CEILING PANELS, GYPSUM BOARD SOFFITS, AND/OR PLASTER SOFFIT BAYS UNLESS NOTED OTHERWISE. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
9. FINISHED GYPSUM BOARD SOFFITS SHALL EXTEND 1" BEYOND FACE AND EXPOSED ENDS OF WALL CABINETS, FULL-HEIGHT CABINETS, ETC. UNLESS NOTED OTHERWISE. COORDINATE CABINET DIMENSIONS WITH SUPPLIER GYPSUM BOARD FASCIA/SOFFT DETAILS ARE REFERENCED FROM THE REFLECTED CEILING PLAN.
10. VERTICAL FACE OF SOFFITS THAT ALIGN WITH WALL TO RECEIVE ADJACENT WALL FINISH UNLESS NOTED OTHERWISE.
11. PROVIDE SMOOTH TRANSITION BETWEEN EXISTING AND NEW GYP BD CEILING WHERE NEW GYP BD MEETS EXISTING AT SAME HEIGHT (NO VISIBLE JOINT BETWEEN EXISTING AND NEW).
12. UNISTRUT TO BE DESIGN BUILD. COORDINATE CLOSELY WITH EQUIPMENT DRAWINGS FOR LOCATIONS OF ALL LIGHTS AND BOOMS.

BEAVER DAM CEILING CEILING NOTES

1. WOOD BEAVER DAM CEILING TO BE CONSTRUCTED WITH STAINED 2X4 WOOD STUDS OF VARIOUS LENGTHS (4'-0", 6'-0", 8'-0", & 10'-0").
2. EACH 2X4 WOOD STUD IS TO BE SUSPENDED BY 1/8" GALVANIZED AIRPLANE CABLE WITH TURN BUCKLE HOOK/EYE & LAG THREAD SCREWS AT EACH END TO EXISTING STRUCTURE ABOVE (REFER TO SPEC SECTION 06 2000).
3. THE BEAVER DAM CEILING IS LAID OUT USING VARIOUS OVERLAPPING HEXAGON GRIDS, AS SHOWN ON SHEET A320. THESE GRIDS ARE AT VARIOUS HEIGHTS AND ANGLES TO CREATE THE BEAVER DAM. ANGLES, LOCATIONS, AND DIMENSIONS REGARDING THE HEXAGON GRIDS AND SCHEDULES ARE APPROXIMATE AND SUBJECT TO CHANGE AS NEEDED. HEIGHTS REFERENCED ON A421 ARE NOT SUBJECT TO CHANGE. VERIFY ALL DEVIATIONS $\geq 12"$ WITH ARCHITECT.
4. CUT OR SHIFT STICKS AS NEEDED TO BE 4" FROM WALL OR FRONT SOFFT WHEN HUNG. ALL CUTS TO BE SQUARE. ADJUST STICKS NO MORE THAN 12".
5. COORDINATE WOOD STICK PLACEMENT WITH A/V SPEAKERS & MICROPHONES, LIGHTING FIXTURES, AND MECHANICAL DUCT WORK.
6. AUDITORIUM RENDERINGS ON SHEET A310 ARE FOR BASIS OF DESIGN TO HELP THE CONTRACTOR WITH THE OVERALL LOOK OF THE WOOD BEAVER DAM CEILING.
7. THERE WILL BE AREAS WHERE WOOD STICK INFILL WILL BE NEEDED. ARCHITECT AND OWNER WILL INSPECT CEILING DURING AND AFTER INSTALLATION AND COORDINATE AREAS OF INFILL.
8. ALL EXPOSED STRUCTURE, HVAC DUCT WORK, CONDUITS, FRAMING, GYPSUM BOARD ABOVE THE WOOD BEAVER DAM CEILING TO BE PAINTED BLACK.

KEYNOTE LEGEND:

	<<< INDICATES KEYNOTE ON PLAN
AE 03	WD BEAVER DAM CEILING - SEE DRAWINGS A301-A330.
AE 04	NO WORK IN THIS AREA.
AE 11	PAINT EX. STRUCTURE, HVAC DUCTWORK, CONDUITS, FRAMING & GYPSUM BOARD ABOVE WOOD CEILING - SEE INTERIOR DRAWINGS & SPECS.



Architecture
Interior Design

Engineering
Industrial

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DRAWING TITLE

REFLECTED CEILING
PLAN

A301



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DRAWING TITLE
CEILING BASIS OF
DESIGN

A310

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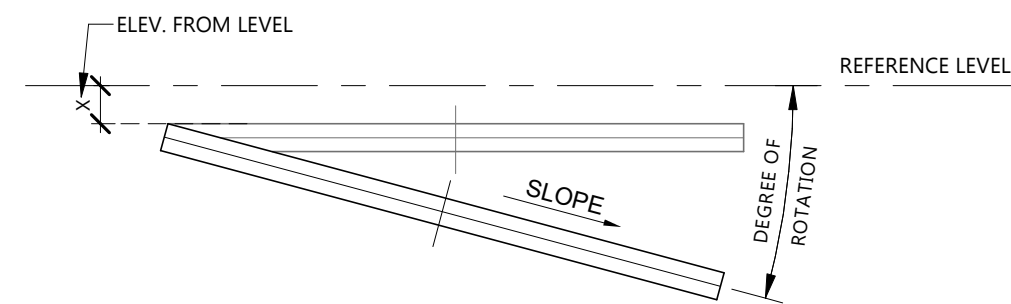
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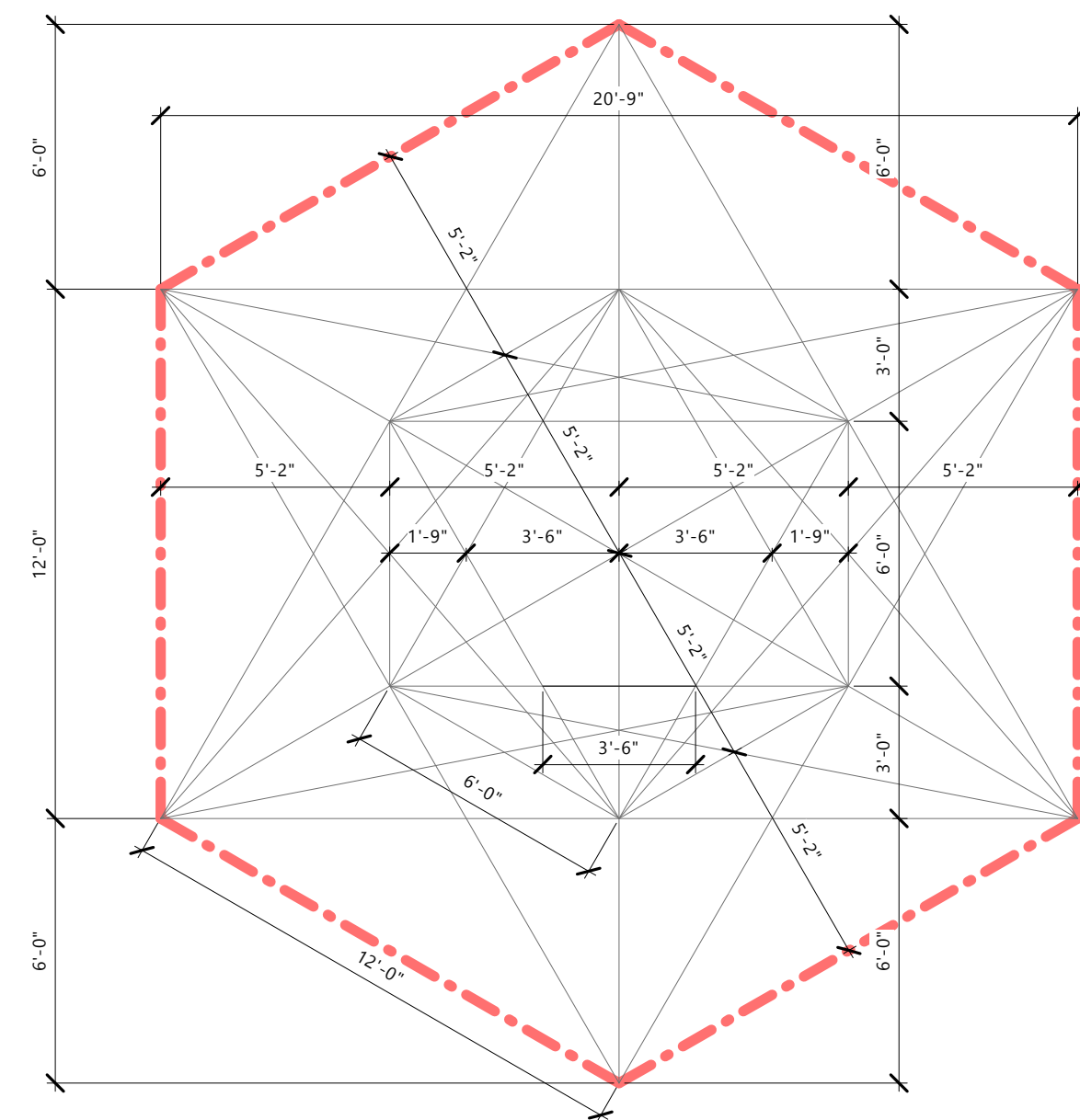
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DRAWING TITLE
CEILING REFERENCE
LEVEL 1 - GRIDS C, I-J

A322

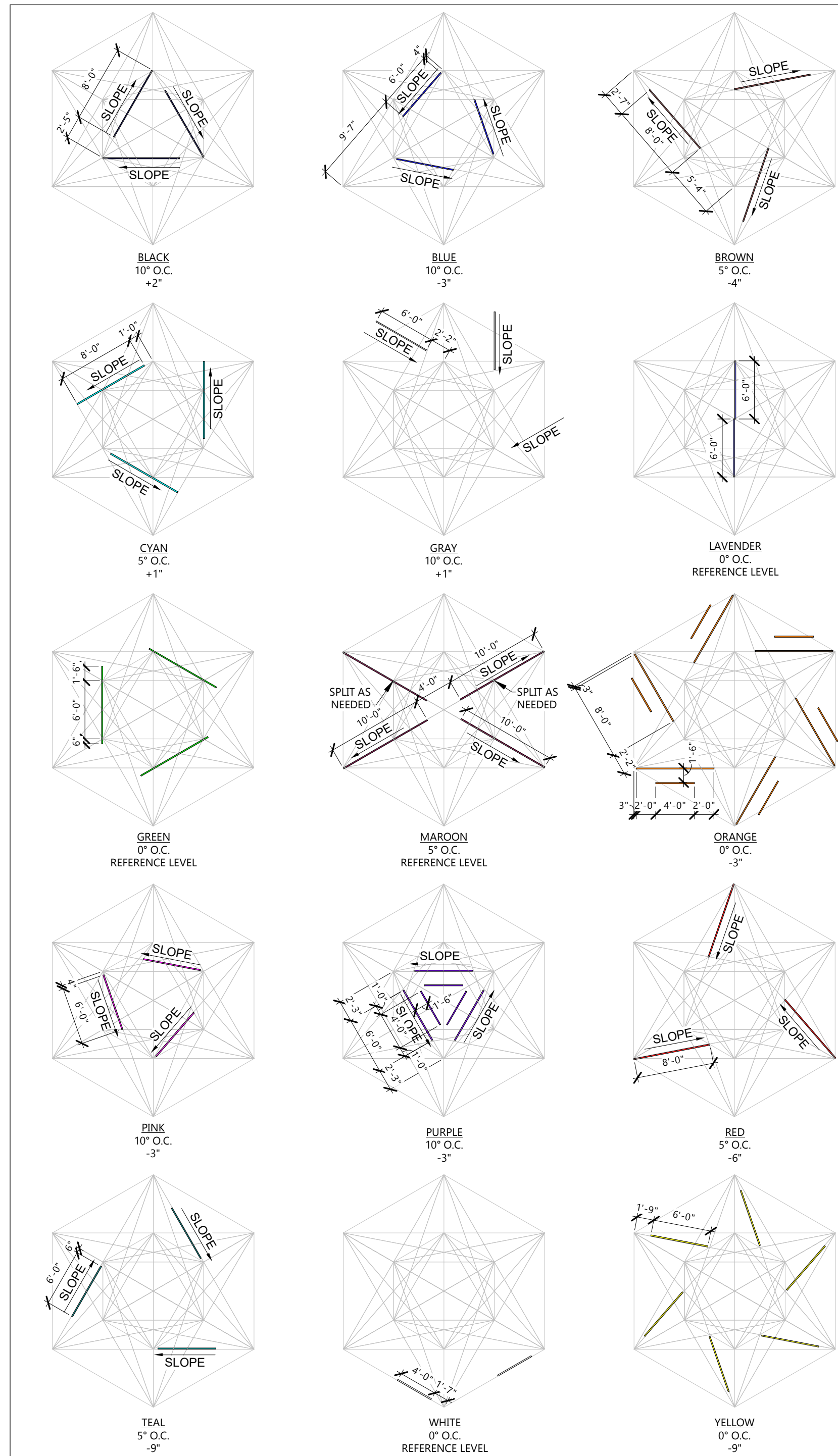


STICK REFERENCES

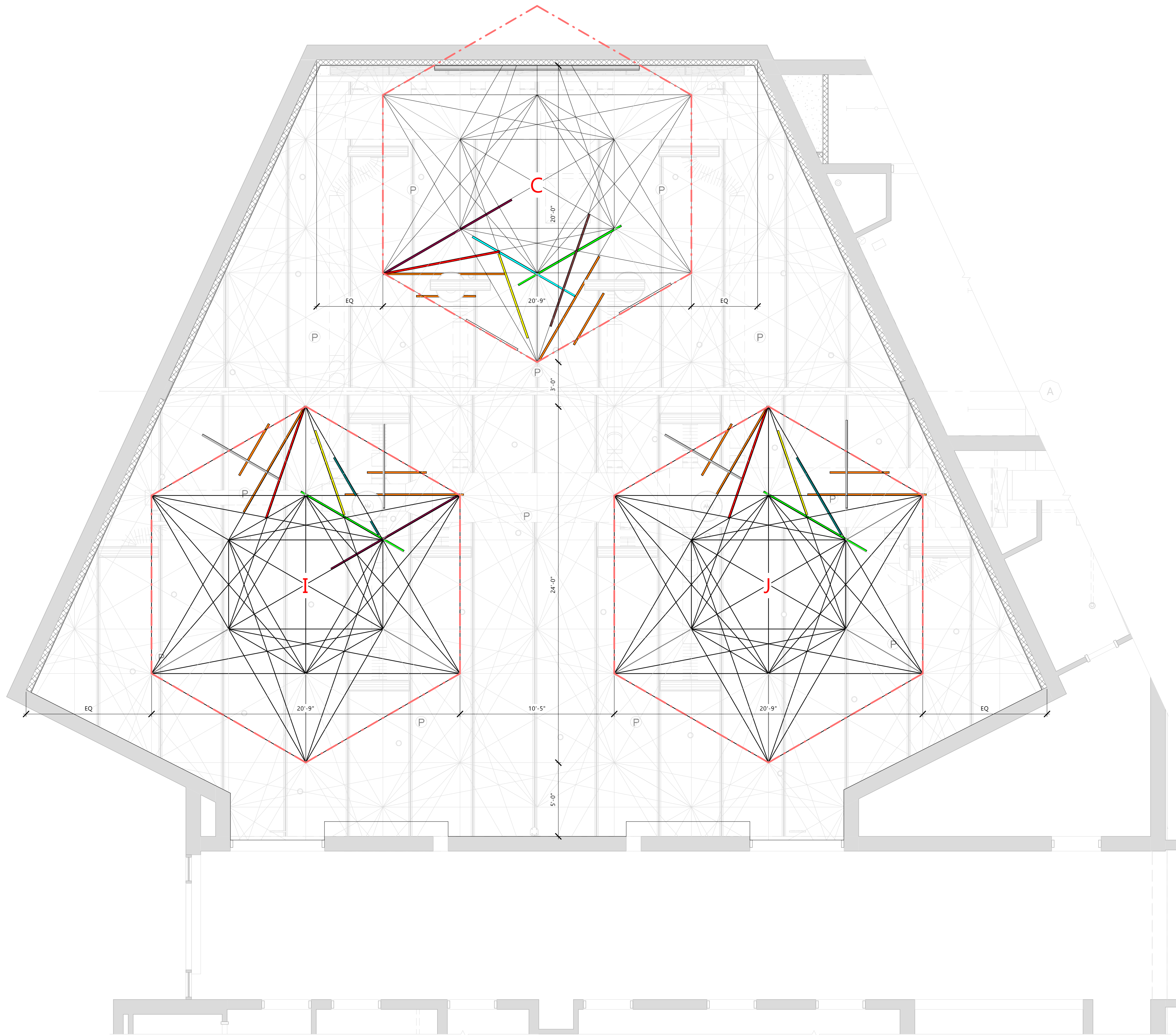


TYP. CEILING GRID UNIT

COLOR
DEGREE OF ROTATION
ELEV. FROM REFERENCE LVL



STICK VARIATIONS

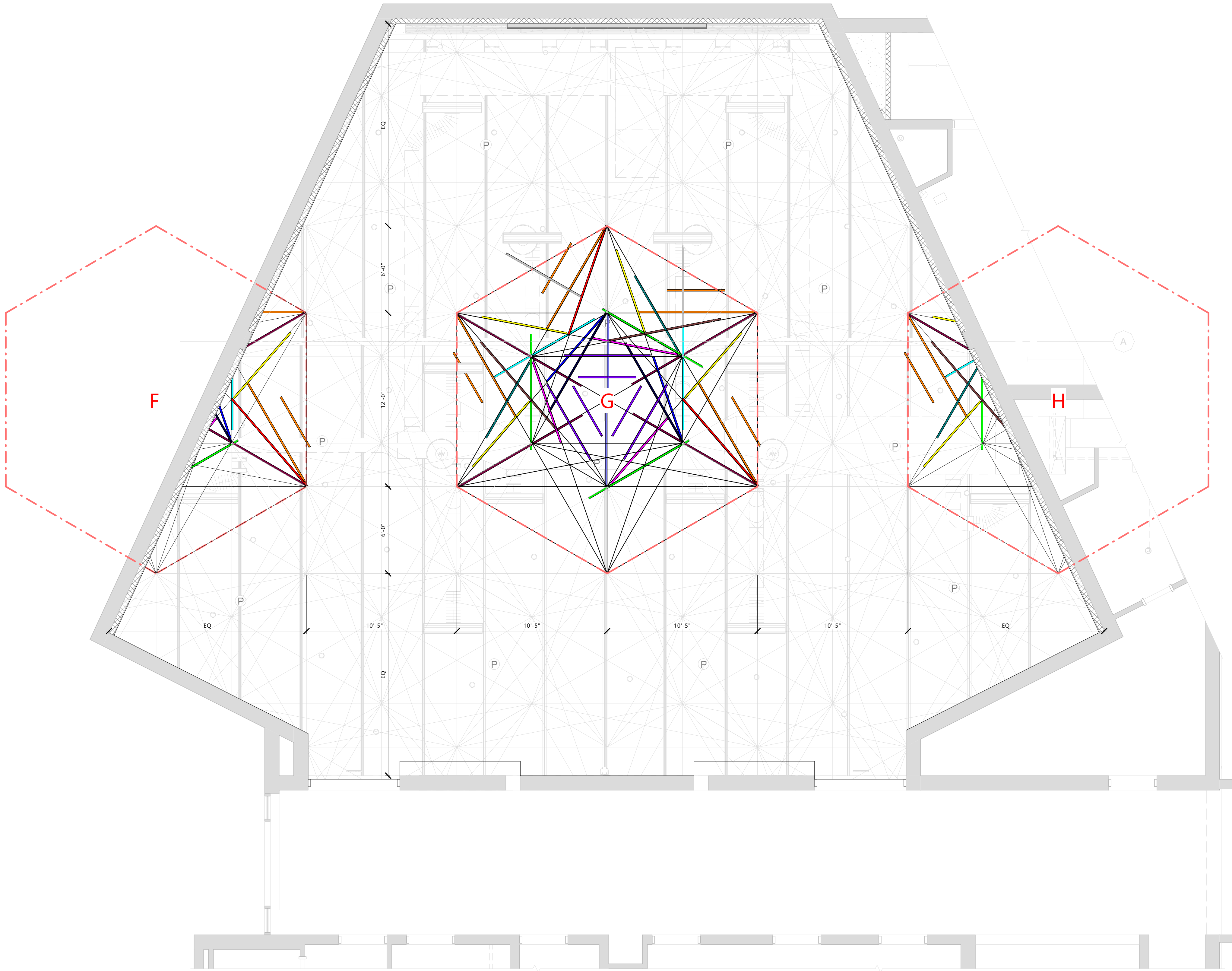


CEILING REFERENCE LEVEL 1 - GRIDS C, I-J

ISSUE DATES

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DRAWING TITLE
CEILING REFERENCE
LEVEL 1 - GRIDS F-H



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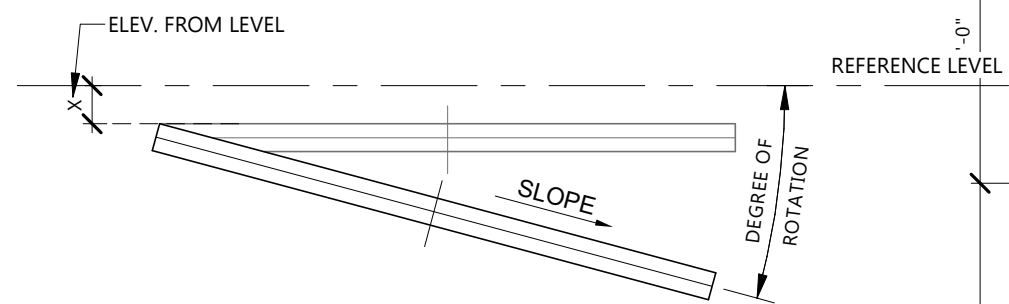
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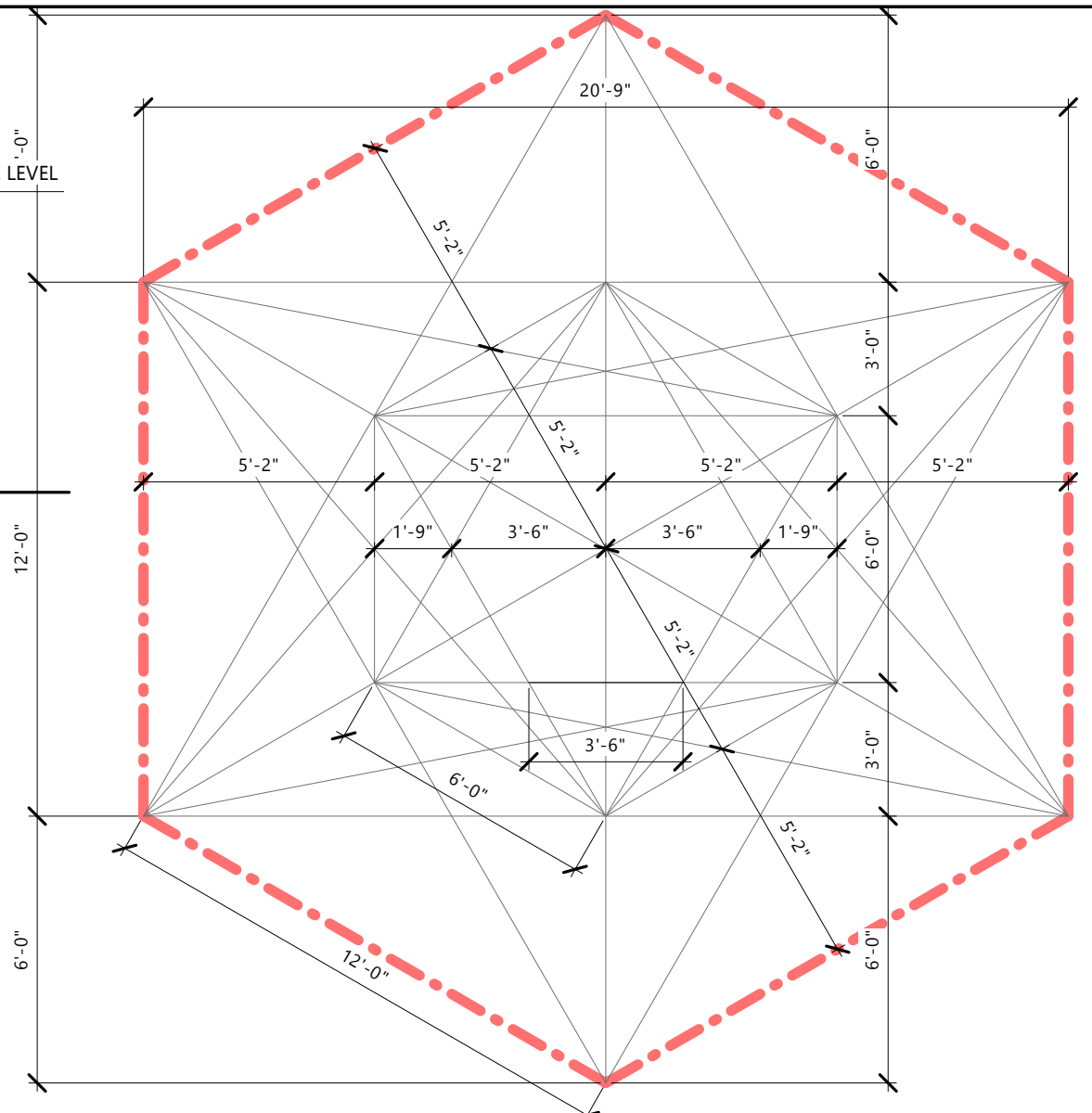
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CEILING REFERENCE
LEVEL 2 - GRIDS A-B,
F-H, N-P

A324

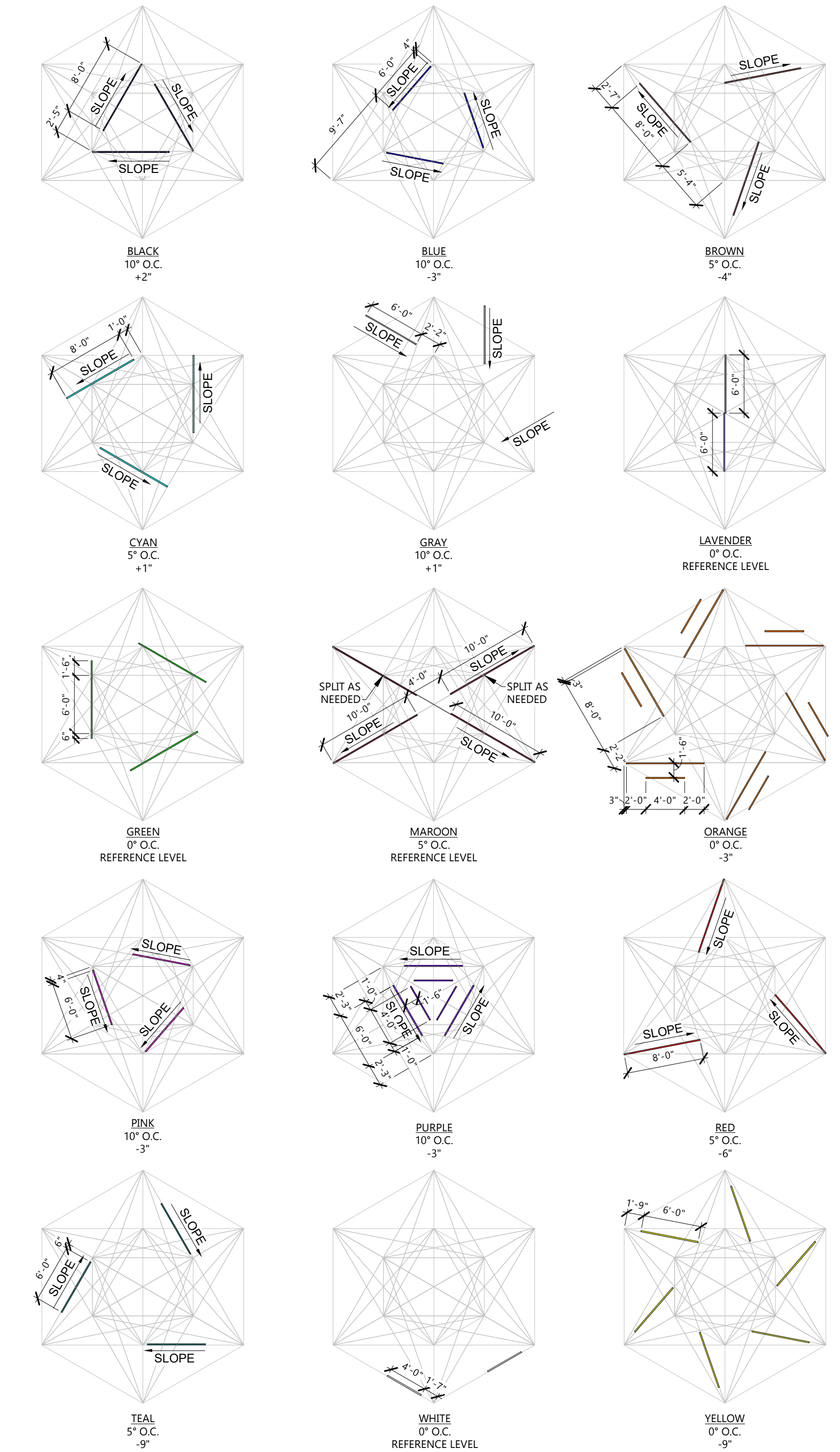


STICK REFERENCES

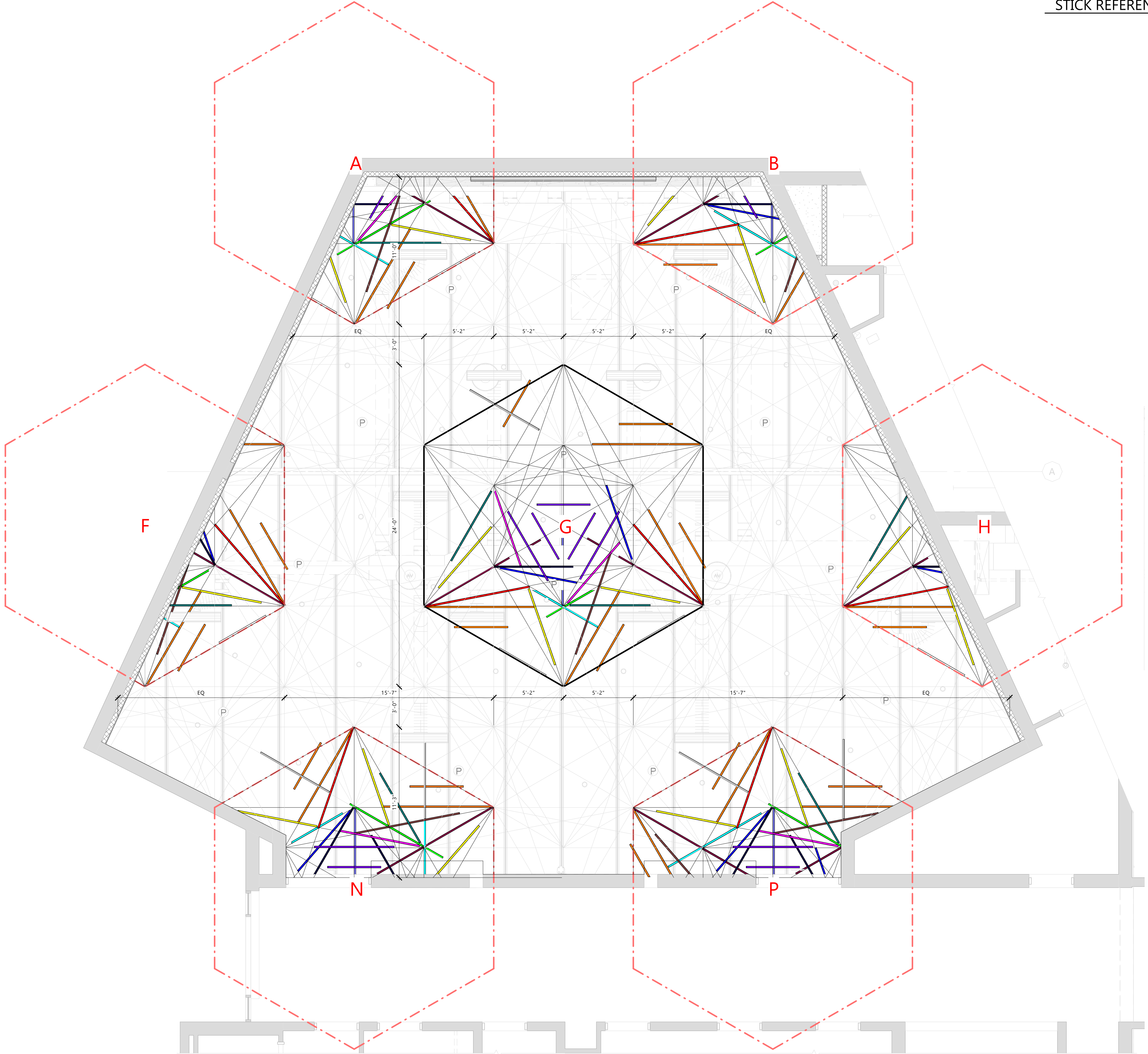


TYP. CEILING GRID UNIT

COLOR
DEGREE OF ROTATION
ELEV. FROM REFERENCE LVL



STICK VARIATIONS



CEILING REFERENCE LEVEL 2 - GRIDS A-B, F-H, N-P

1

A324

1/4" = 1'-0"

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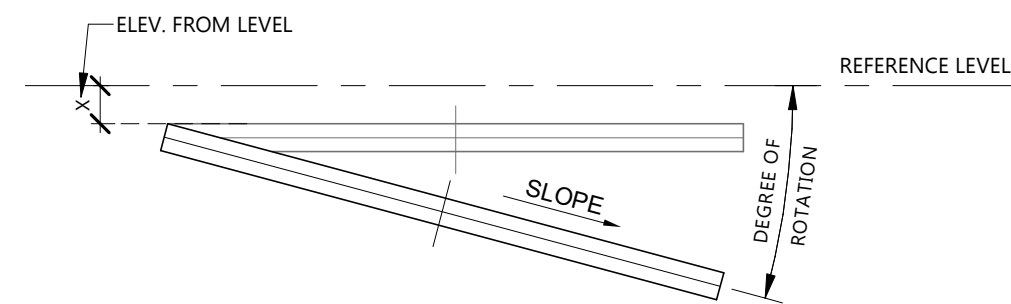
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report was prepared by me or under my direct
supervision and that I am a duly Registered
Architect under the laws of the State of North
Dakota.

Signature: Shawn Crawley

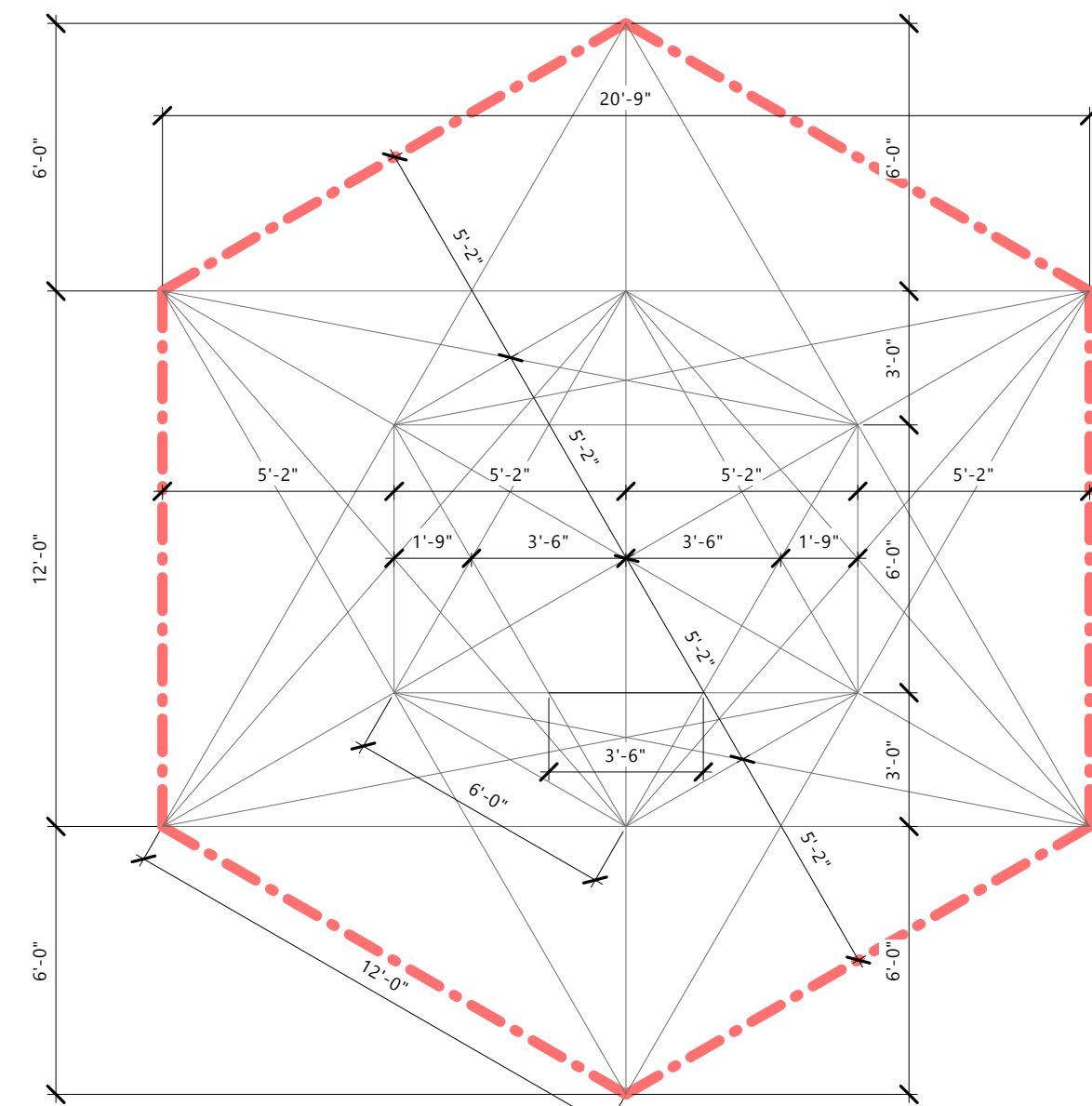
Date: 9/4/2026 REG. NO.: 2162

DRAWING TITLE
CEILING REFERENCE
LEVEL 2 - GRIDS C, I-J

A325

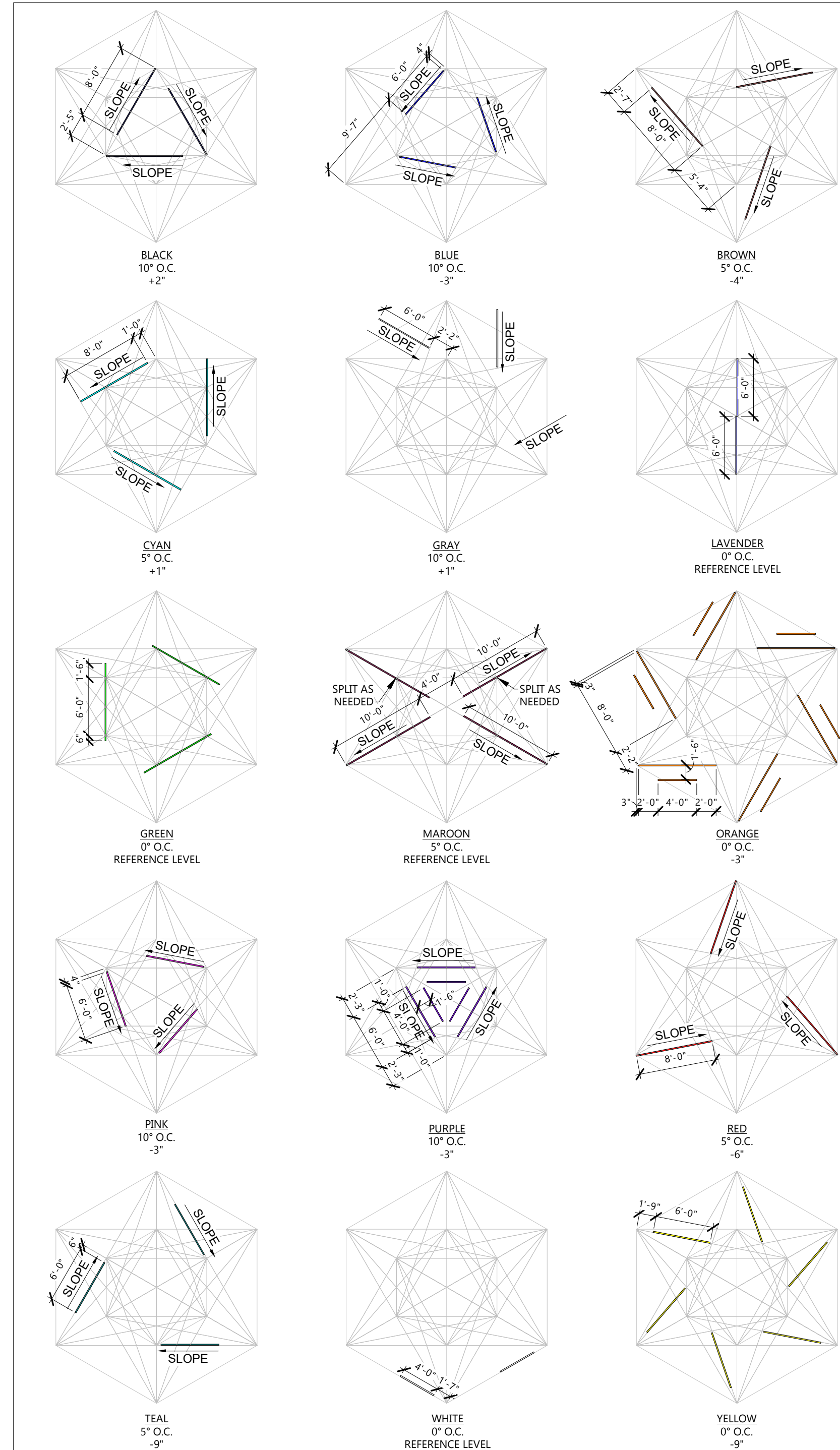


STICK REFERENCES

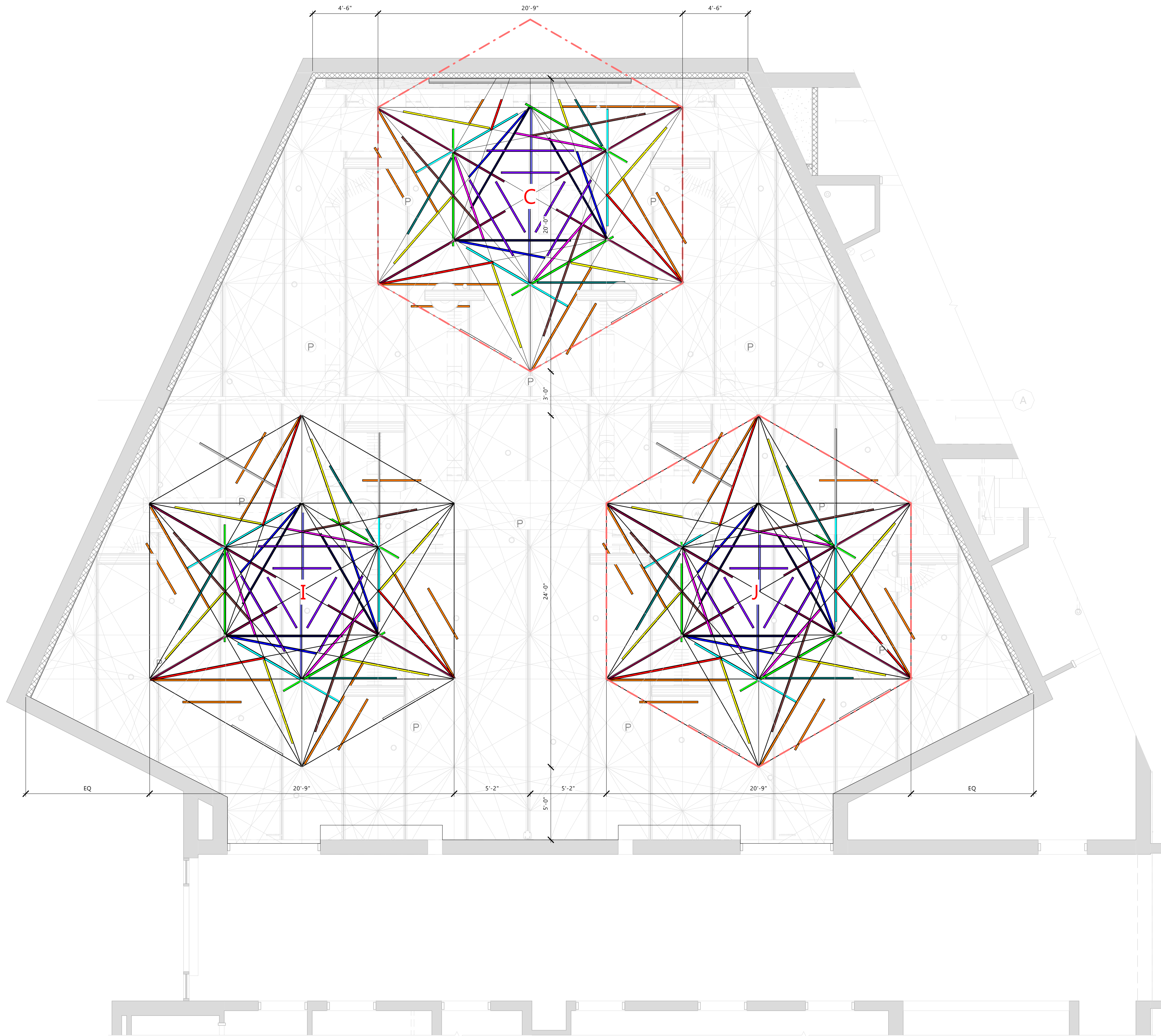


TYP. CEILING GRID UNIT

COLOR
DEGREE OF ROTATION
ELEV. FROM REFERENCE LVL



STICK VARIATIONS



CEILING REFERENCE LEVEL 2 - GRIDS C, I-J

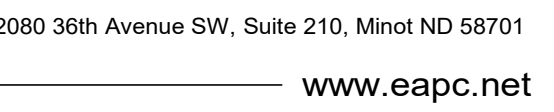
REFERENCE LEVEL 1 (109'-0")

STICK SCHEDULE				
COLOR	QTY	TYP LENGTH	MOD. LENGTH	NOTES
GRID C				
BROWN	1	8'-0"	--	
CYAN	1	10'-0"	--	
GREEN	1	8'-0"	--	
MAROON	1	10'-0"	--	
ORANGE (LONG)	2	8'-0"	--	
ORANGE (SHORT)	2	4'-0"	--	
RED	1	8'-0"	--	
WHITE	2	4'-0"	--	
YELLOW	1	6'-0"	--	
12				
GRID D				
BLACK	3	8'-0"	--	
BLUE	3	8'-0"	--	
BROWN	2	8'-0"	± 4'-0"	1 TYP
CYAN	3	8'-0"	± 5'-0"	2 TYP
GREEN	3	8'-0"	± 6'-6"	2 TYP
LAVENDER	2	6'-0"	--	
MAROON	4	10'-0"	(1) ± 3'-6" (1) ± 9'-6"	2 TYP
ORANGE (LONG)	3	8'-0"	± 7'-0"	2 TYP
ORANGE (SHORT)	3	4'-0"	--	
PINK	2	6'-0"	--	
PURPLE (LONG)	2	6'-0"	--	
PURPLE (SHORT)	3	4'-0"	--	
RED	2	8'-0"	± 6'-6"	1 TYP
TEAL	1	6'-0"	--	
WHITE	2	4'-0"	--	
YELLOW	4	6'-0"	± 4'-6"	3 TYP
42				
GRID E				
BLACK	3	8'-0"	--	
BLUE	3	8'-0"	--	
BROWN	2	8'-0"	--	
CYAN	3	8'-0"	± 5'-0"	2 TYP
GREEN	3	8'-0"	± 6'-0"	2 TYP
LAVENDER	2	8'-0"	--	
MAROON	4	10'-0"	(1) ± 4'-0" (1) ± 8'-6"	2 TYP
ORANGE (LONG)	3	8'-0"	--	
ORANGE (SHORT)	3	4'-0"	--	
PINK	2	6'-0"	--	
PURPLE (LONG)	2	6'-0"	--	
PURPLE (SHORT)	3	4'-0"	--	
RED	1	8'-0"	± 5'-0"	1 TYP
TEAL	2	6'-0"	--	
WHITE	2	4'-0"	--	
YELLOW	3	6'-0"	--	
41				
GRID F				
CYAN	1	8'-0"	± 3'-0"	OFFSET
GREEN	1	8'-0"	± 3'-0"	OFFSET
MAROON	2	10'-0"	(1) ± 4'-0" (1) ± 7'-0"	
ORANGE (LONG)	2	8'-0"	± 3'-0"	1 TYP
ORANGE (SHORT)	1	4'-0"	--	
RED	1	8'-0"	--	
YELLOW	1	6'-0"	--	
9				
GRID G				
BLACK	2	8'-0"	--	
BLUE	2	8'-0"	--	
BROWN	2	8'-0"	--	
CYAN	2	8'-0"	--	
GRAY	2	6'-0"	--	
GREEN	3	8'-0"	--	
LAVENDER	2	6'-0"	--	
MAROON	4	10'-0"	--	
ORANGE (LONG)	4	8'-0"	--	
ORANGE (SHORT)	4	4'-0"	--	
PINK	3	6'-0"	--	
PURPLE (LONG)	3	6'-0"	--	
PURPLE (SHORT)	3	4'-0"	--	
RED	1	8'-0"	--	
TEAL	2	6'-0"	--	
YELLOW	4	6'-0"	--	
43				
GRID H				
BROWN	1	8'-0"	± 7'-6"	
CYAN	1	8'-0"	± 3'-0"	OFFSET
GREEN	1	8'-0"	± 4'-6"	
MAROON	1	10'-0"	± 4'-6"	
ORANGE (LONG)	1	8'-0"	--	
ORANGE (SHORT)	1	4'-0"	--	
TEAL	1	6'-0"	± 5'-0"	
YELLOW	1	6'-0"	--	
8				
GRID I				
GRAY	1	6'-0"	--	
GREEN	1	8'-0"	--	
MAROON	1	10'-0"	--	
ORANGE (LONG)	2	8'-0"	--	
ORANGE (SHORT)	2	4'-0"	--	
RED	1	8'-0"	--	
TEAL	1	6'-0"	--	
YELLOW	1	6'-0"	--	
10				
GRID J				
GRAY	2	8'-0"	--	
GREEN	1	8'-0"	--	
ORANGE (LONG)	2	8'-0"	--	
ORANGE (SHORT)	2	4'-0"	--	
RED	1	8'-0"	--	
TEAL	1	6'-0"	--	
YELLOW	1	6'-0"	--	
10				

REFERENCE LEVEL 2 (110'-6")

STICK SCHEDULE				
COLOR	QTY	TYP LENGTH	MOD. LENGTH	NOTES
GRID A				
BLACK	1	8'-0"	± 3'-0"	
BROWN	1	8'-0"	--	
CYAN	1	8'-0"	± 4'-0"	
GREEN	1	8'-0"	--	
LAVENDER	1	6'-0"	± 3'-0"	
MAROON	1	10'-0"	± 7'-6"	
ORANGE (LONG)	2	8'-0"	± 4'-0"	1 TYP
ORANGE (SHORT)	1	4'-0"	--	
PINK	1	6'-0"	± 5'-0"	
PURPLE (LONG)	1	6'-0"	± 3'-0"	
RED	1	8'-0"	± 5'-6"	
TEAL	1	6'-0"	--	
WHITE	2	4'-0"	--	1 OFFSET
YELLOW	2	6'-0"	± 3'-6"	1 TYP
17				
GRID B				
BLACK	1	8'-0"	± 4'-6"	
BLUE	1	6'-0"	± 5'-6"	
CYAN	1	8'-0"	--	OFFSET
GREEN	1	8'-0"	± 3'-0"	OFFSET
LAVENDER	1	6'-0"	± 3'-0"	OFFSET
MAROON	1	10'-0"	± 7'-6"	
ORANGE (LONG)	2	8'-0"	± 4'-0"	1 TYP
ORANGE (SHORT)	1	4'-0"	--	
PURPLE (LONG)	1	6'-0"	± 3'-0"	OFFSET
PURPLE (SHORT)	1	4'-0"	--	
WHITE	1	4'-0"	--	
YELLOW	2	6'-0"	± 3'-6"	1 TYP
13				
GRID C				
BLACK	3	8'-0"	--	
BLUE	3	6'-0"	--	
BROWN	3	8'-0"	--	
CYAN	3	8'-0"	--	
GREEN	3	8'-0"	--	
LAVENDER	2	6'-0"	--	
MAROON	4	10'-0"	--	
ORANGE (LONG)	6	8'-0"	± 3'-0"	5 TYP
ORANGE (SHORT)	4	4'-0"	--	
PINK	3	6'-0"	--	
PURPLE (LONG)	3	6'-0"	--	
PURPLE (SHORT)	3	4'-0"	--	
RED	3	8'-0"	± 3'-0"	2 TYP
TEAL	3	6'-0"	± 3'-6"	2 TYP
WHITE	2	4'-0"	--	
YELLOW	6	6'-0"	± 3'-0"	5 TYP
54				
GRID D				
BLACK	2	8'-0"	--	
BLUE	2	6'-0"	--	
BROWN	2	8'-0"	± 3'-6"	1 TYP
CYAN	2	8'-0"	± 5'-0"	1 TYP
GRAY	1	6'-0"	--	
GREEN	1	8'-0"	--	
LAVENDER	1	6'-0"	--	
MAROON	2	10'-0"	± 3'-6"	1 TYP
ORANGE (LONG)	3	8'-0"	± 7'-0"	2 TYP
ORANGE (SHORT)	3	4'-0"	--	
PINK	2	6'-0"	--	
PURPLE (LONG)	1	6'-0"	--	
PURPLE (SHORT)	3	4'-0"	--	
RED	1	8'-0"	--	
TEAL	1	6'-0"	--	
WHITE	2	4'-0"	--	
YELLOW	2	6'-0"	--	
31				
GRID E				
BLACK	2	8'-0"	--	
BLUE	2	6'-0"	--	
BROWN	2	8'-0"	± 4'-0"	1 TYP
CYAN	2	8'-0"	± 5'-0"	1 TYP
GRAY	1	6'-0"	--	
GREEN	1	8'-0"	--	OFFSET
LAVENDER	1	6'-0"	--	
MAROON	2	10'-0"	± 3'-6"	1 TYP
ORANGE (LONG)	3	8'-0"	--	
ORANGE (SHORT)	4	4'-0"	--	
PINK	2	6'-0"	--	
PURPLE (LONG)	1	6'-0"	--	
PURPLE (SHORT)	3	4'-0"	--	
RED	1	8'-0"	--	
TEAL	2	6'-0"	--	
WHITE	2	4'-0"	--	
YELLOW	2	6'-0"	--	
33				
GRID F				
BROWN	1	8'-0"	± 4'-0"	
GREEN	1	8'-0"	± 3'-0"	
MAROON	1	10'-0"	± 7'-6"	
ORANGE (LONG)	2	8'-0"	--	
ORANGE (SHORT)	2	4'-0"	--	
RED	1	8'-0"	--	
TEAL	1	6'-0"	± 4'-0"	
WHITE	1	4'-0"	--	
YELLOW	1	6'-0"	--	
11				
GRID G				
BLACK	1	8'-0"	--	
BLUE	1	6'-0"	--	
BROWN	1	8'-0"	--	
CYAN	1	8'-0"	--	
GRAY	1	6'-0"	--	
GREEN	1	8'-0"	--	
LAVENDER	1	6'-0"	--	
MAROON	2	10'-0"	--	
ORANGE (LONG)	4	8'-0"	--	
ORANGE (SHORT)	5	4'-0"	--	
PINK	2	6'-0"	--	
PURPLE (LONG)	2	6'-0"	--	
PURPLE (SHORT)	3	4'-0"	--	
RED	2	8'-0"	--	
TEAL	2	6'-0"	--	
WHITE	2	4'-0"	--	
YELLOW	3	6'-0"	--	
33				

STICK SCHEDULE				
COLOR	QTY	TYP LENGTH	MOD. LENGTH	NOTES
GRID H				
MAROON	1	10'-0"	± 7'-6"	OFFSET
ORANGE (LONG)	1	8'-0"	--	
ORANGE (SHORT)	1	4'-0"	--	
RED	1	8'-0"	--	OFFSET
TEAL	1	6'-0"	± 5'-0"	
WHITE	1	4'-0"	--	
YELLOW	2	6'-0"	--	1 OFFSET
8				
GRID I				
BLACK	3	8'-0"	--	
BLUE	3	6'-0"	--	
BROWN	3	8'-0"	--	
CYAN	3	8'-0"	--	
GRAY	2	6'-0"	--	
GREEN	3</			

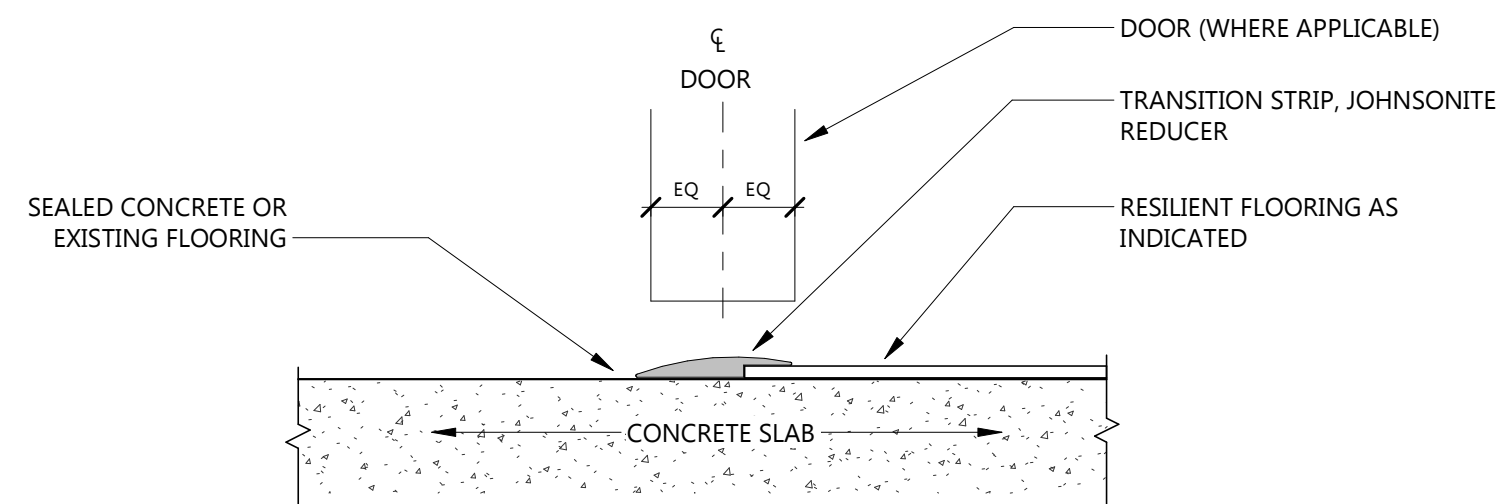
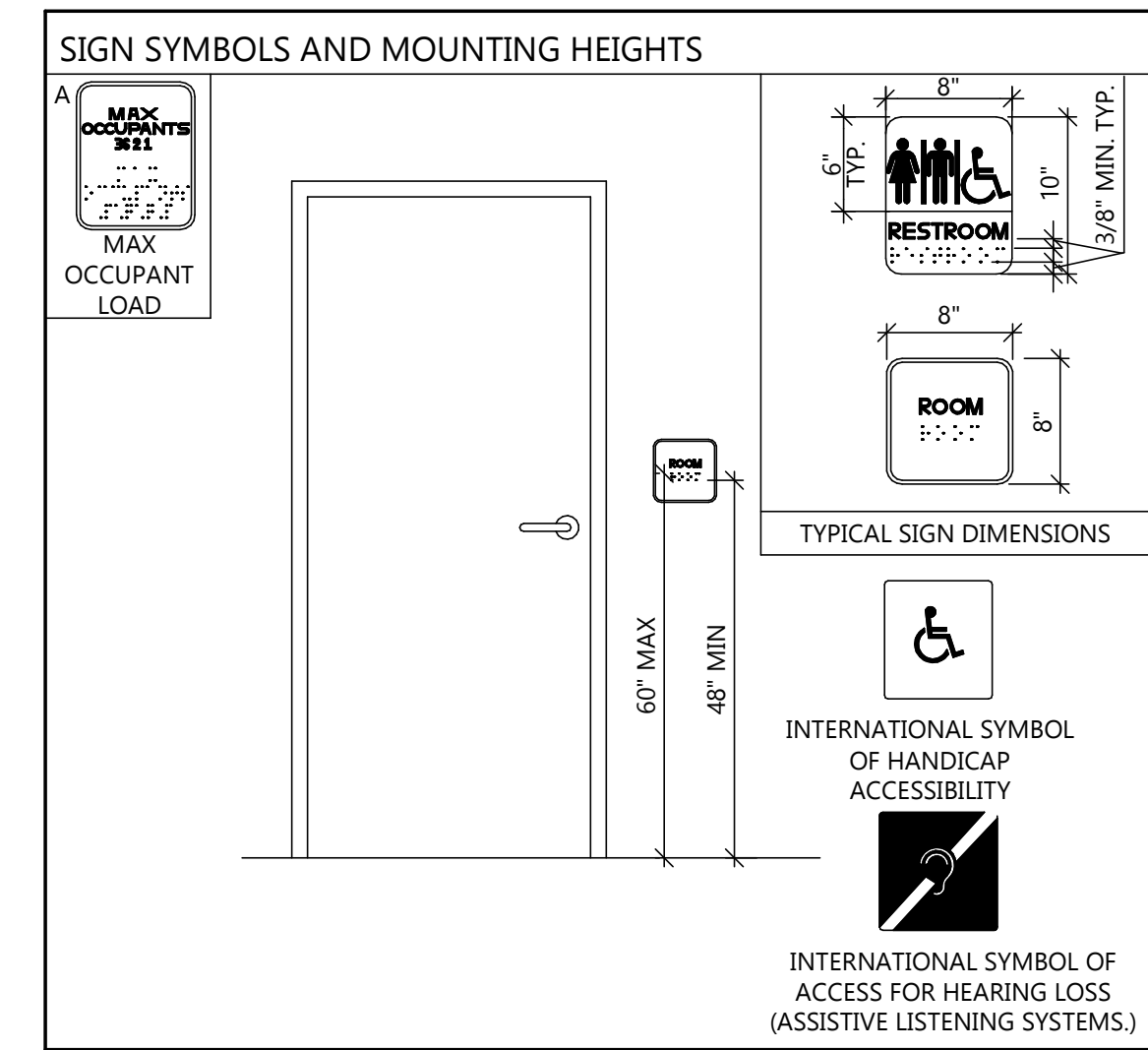


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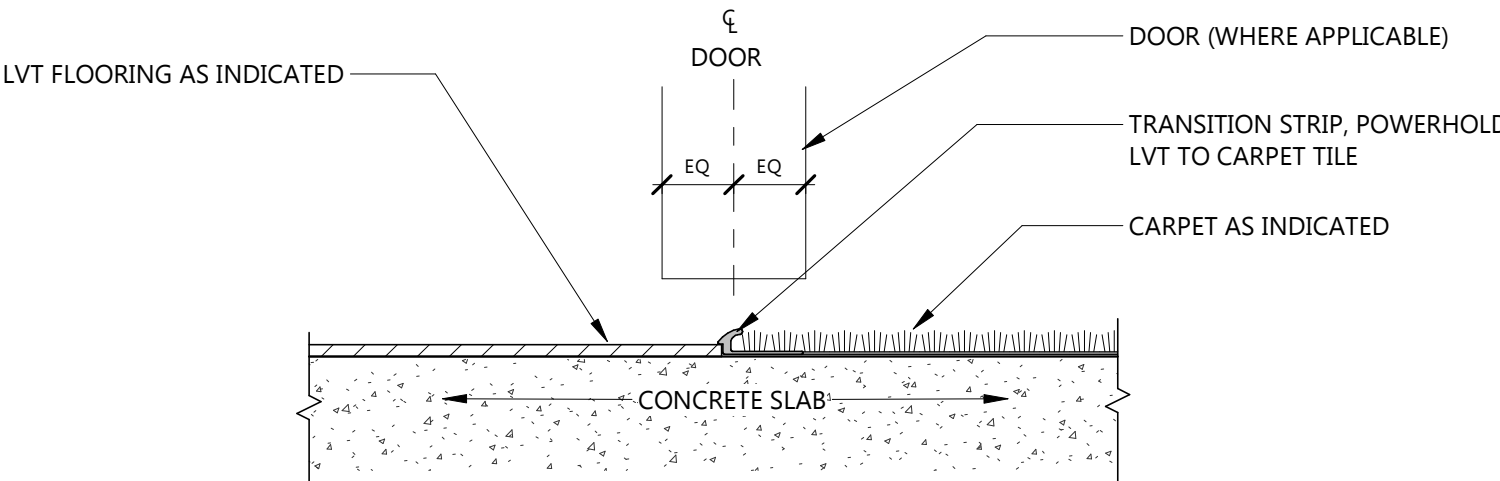
A601

ROOM FINISH SCHEDULE									
ROOM		FLOOR	BASE	WALLS				CEILING	NOTES
NO.	NAME			NORTH	EAST	SOUTH	WEST		
17	STORAGE	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
18	STORAGE	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
100	CORRIDOR	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
100A	EARTH STOCK RM	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
100C	CORRIDOR	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
101	AUDITORIUM	CPT-1, RTF-1	RB-1	P-1	P-1	P-1	P-1	SCS-1	
101C	AUDITORIUM	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
102A	STORAGE	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
102B	STORAGE	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
103	BOILER ROOM	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
104	CORRIDOR	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
105	STORAGE	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
106	MECHANICAL	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
109	Room	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
110	STORAGE	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
111	OFFICE	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
136	MUSEUM	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
140	MENS	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
141	WOMENS	EXT	EXT	EXT	EXT	EXT	EXT	EXT	
142	JANITOR	EXT	EXT	EXT	EXT	EXT	EXT	EXT	

SIGN MESSAGE SCHEDULE					
SIGN NUMBER	SIGN TYPE	ROOM NUMBER	ROOM NAME	QUANTITY	SIGN MESSAGE
001	A			1	MAX OCCUPANCY 206



3 TS-2 SEALED CONCRETE TO EXISTING
A901 NOT TO SCALE



2 TS-1 RESILIENT FLOORING TO CARPET
A901 NOT TO SCALE

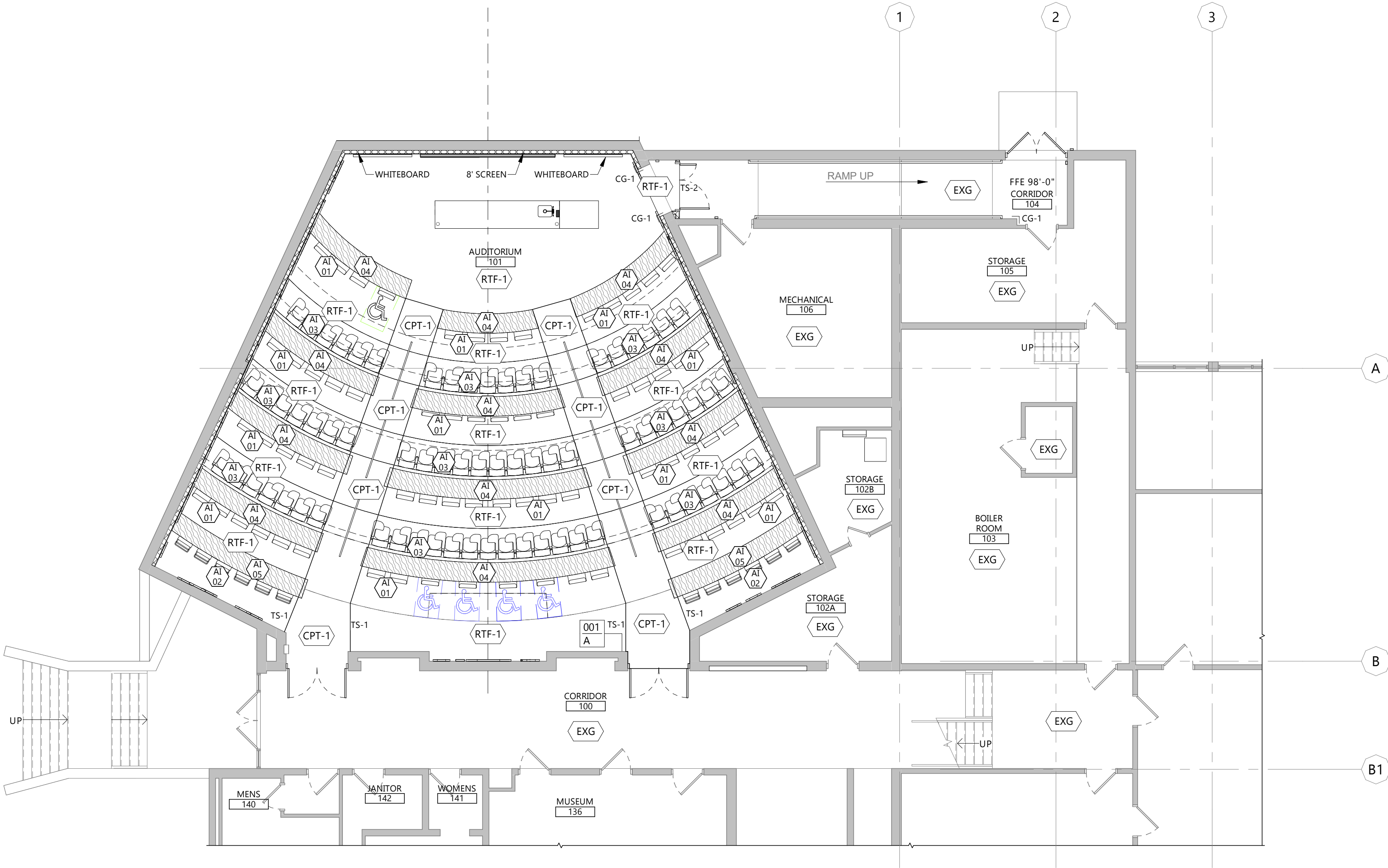
- GENERAL SIGNAGE NOTES
- REFER TO THE EXISTING SIGNAGE REQUIREMENTS BY OWNER.
 - THE SIGNAGE VENDOR SHALL COORDINATE WITH THE ARCHITECT FOR FINAL SIGNAGE MESSAGING, FINAL MOUNTING LOCATIONS, AND ANY REVISIONS TO THE SIGNAGE LOCATIONS AND TYPES.
 - FINAL SIGNAGE DRAWINGS AND SCHEDULE SHALL BE PROVIDED BY THE SIGNAGE VENDOR.
 - ALL SIGNAGE SHOULD FOLLOW ADA GUIDELINES.

- KEYNOTE LEGEND:
- ◻ < < < INDICATES KEYNOTE ON PLAN
- AI 01 CH-1- MOVABLE TASK CHAIR.
- AI 02 CH-2- MOVABLE TALL TASK CHAIR.
- AI 03 CH-3- FIXED AUDIENCE SEATING.
- AI 04 TB-1- FIXED TABLE WITH MODESTY AND POWER/ USB.
- AI 05 TB-2- FIXED TABLE (42"H) WITH MODESTY AND POWER/ USB.

MATERIAL IDENTIFICATION CODES		
06 4100	PLAM	ARCHITECTURAL WOOD CASEWORK FORMICA, CARMEL ELM 5795-NG
09 6513	RB, TS	RESILIENT BASE AND ACCESSORIES RB-1 JOHNSONITE, COVE 4" BASE, TBD TS-1 RESILIENT FLOORING TO CARPET TS-2 RESILIENT FLOORING TO CONCRETE
09 6519	RTF	RESILIENT TILE FLOORING J&J FLOORING GROUP, MAKE YOUR MARK 5MM V5012, SMOKE 1064 INSTALLED: 1/3 DROP RUNNING NORTH AND SOUTH
09 6813	CPT	TILE CARPETING J&J FLOORING GROUP, FICTION II 7025, SPINE 3345 INSTALLED: ASHLAR
09 8433	SAW	SOUND-ABSORBING WALL UNITS TURF, CUSTOM HEXAGON IN MULTIPLE SIZES, RED
09 9123	PNT	INTERIOR PAINTING PNT-1 FIELD PAINT, SHERWIN WILLIAMS, KNITTING NEEDLES SW 7672 PNT-2 METAL PAINT AND DRYFALL CEILING PAINT, SHERWIN WILLIAMS, CYBERSPACE SW 7076
10 2600	CG	WALL AND DOOR PROTECTIONS CG-1 INPRO- 160 HIGH IMPACT CORNER GUARD, TBD
12 3600	RES	COUNTERTOPS WILSONART, DURCON EPOXY TOPS
12 6000		FURNITURE CH-1 HON- IGNITION- HIWMRAYO.A.H.05.FABRIC.CODE:BL SB.T CH-2 HON- IGNITION- HITSRA50.A.H.05.FABRIC.CODE:BL SB.T CH-3 IRWIN FX SEATING- CITATION, 90.12.10.4- WITH X-LARGE TABLET, LAMINATE- FORMICA- CAMEL ELM 5795-NG TB-1 SEDIA SYSTEM TABLES- M50-30" HEIGHT, WRITING SURFACE LAMINATE CAMEL ELM 5795-NG, MODESTY PANEL- 12mm GIOSFELT, TBD, EDGE STYLE- 3mm, BLACK, PEDSETAL -BLACK TB-2 SEDIA SYSTEM TABLES- M50-42" HEIGHT, WRITING SURFACE LAMINATE CAMEL ELM 5795-NG, MODESTY PANEL- 12mm GIOSFELT, TBD, EDGE STYLE- 3mm, BLACK, PEDSETAL -BLACK

- GENERAL FINISH NOTES
- REFER TO FINISH PLANS, INTERIOR ELEVATIONS, AND REFLECTED CEILING PLANS FOR ADDITIONAL FINISH LOCATIONS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALLOWING FOR DELIVERY LEAD TIMES FOR ALL FINISHES SPECIFIC WITHIN THE CONSTRUCTION SCHEDULE. ALL DELIVERY TIMES MUST BE CONFIRMED, AND ANY EXCESSIVE LEAD TIME MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY TO ALLOW FOR RE-SPECIFICATION IF NECESSARY.
 - CONTRACTOR SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION OF ALL MATERIALS.
 - WHERE WALL FINISH CHANGES OCCUR, TERMINATE AT INSIDE CORNERS, UNO.
 - ALL WALLS TO RECEIVE (PNT-1), UNO. REFER TO FINISH PLANS FOR MORE INFORMATION.
 - ALL TRANSITIONS OF FLOOR FINISH MATERIALS SHALL BE LOCATED DIRECTLY UNDER CENTER OF DOOR, WHERE OCCURS, UNO. AT SLIDING DOORS, TRANSITIONS SHALL BE LOCATED ON THE INSIDE FACE OF DOOR, UNO.
 - ALL CRACKS, HOLES, IMPERFECTIONS IN EXISTING WALLS, PARTITIONS OR GYP BOARD SHALL BE FILLED WITH PATCHING PLASTER AND SMOOTHED OFF TO MATCH ADJOINING SURFACES.
 - ALL SEALANTS TO MATCH SURFACE IN WHICH THEY OCCUR.
 - JOINTS IN RESILIENT BASE SHALL NOT OCCUR CLOSER THAN 6" FROM CORNER AND SHALL BE BUTTED TIGHTLY TOGETHER.
 - ALL MISCELLANEOUS ITEMS SCHEDULED TO BE PAINTED, INCLUDING MECHANICAL AND ELECTRICAL, PAINT TO MATCH ADJACENT SURFACE.
 - UPON COMPLETION, REMOVE ALL PAINT FROM WHERE IT HAS SPILLED, SPLASHED OR SPLATTERED ON EXPOSED SURFACES.
 - EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND PROCEED WITH "TOUCH-UP" AS REQUIRED.
 - UNDERSIDE OF SOFFITS (WHERE OCCURS) TO RECEIVE A FINISH TO MATCH THE ADJACENT SOFFIT VERTICAL FINISH, UNO.
 - ALL VERTICAL SURFACES SHALL RECEIVE WALL BASE (RB-1), UNO.
 - PAINT CEILING ACCESS PANELS WHERE THEY OCCUR TO MATCH ADJACENT CEILING FINISH.
 - STAINED AND PAINTED SURFACES SHALL BE FINISHED SUCH THAT JOINTS ARE NOT VISIBLE WHEN VIEWED FROM ANY ANGLE AS DETERMINED BY THE ARCHITECT.
 - ALL GYP BOARD CEILINGS AND SOFFITS TO BE PNT-2), UNO. REFER TO REFLECTED CEILING PLAN AND CEILING DETAILS FOR MORE FINISH INFORMATION.
 - HOLLOW METAL DOORS AND HOLLOW METAL FRAMES SHALL BE PAINTED TO MATCH (PNT-2) WHERE NEW WORK IS INDICATED.
 - ALL EXPOSED CEILINGS TO RECEIVE DRYFALL PAINT, UNO. COLOR TO MATCH (PNT-2).
 - ALL AREAS OF CONCRETE SLAB RECEIVING A FLOOR COVERING TO UNDERGO MOISTURE TESTING IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTION.
 - ALL RAILING OR GUARD RAILS TO BE PAINTED FIELD COLOR (PNT-2), UNO.
 - ALL EXPOSED METAL SHALL RECEIVE DTM ACRYLIC COATING MATCHING (PNT-2), UNO.

- FINISH LEGEND
- ◻ (PNT-X) WALL FINISH SYMBOL
- ◻ (CTF-X) FLOOR FINISH SYMBOL
- ◻ (EXG) EXISTING FLOOR FINISH TO REMAIN



1 FLOOR FINISH PLAN
A901 1/8" = 1'-0"

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Interior Design Industrial

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CONSULTANTS

THEATRE PLANNERS | LIGHTING DESIGNERS
Schuler Shook

CLIENT

MINOT STATE UNIVERSITY

PROJECT DESCRIPTION

HOFFMAN AUDITORIUM RENOVATION - CYRIL MOORE HALL

CITY MINOT
STATE ND

ISSUE DATES

CD	CONSTRUCTION DOCUMENTS	09/04/2026
MARK	DESCRIPTION	DATE

PROJECT NO: 20262120
DRAWN BY: ERD
CHECKED BY: SH

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STAMP

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of North Dakota.
Signature: Shawn Crowley
Date: 9/4/2026 REG. NO. : 2162

DRAWING TITLE
FINISH PLAN

A901

ABBREVIATIONS		
A		AIR CONDITIONING UNIT
A/C		AIR HANDLING UNIT
AHU		ABOVE FINISHED FLOOR
AFF		AIR COOLED CONDENSING UNIT
ACCU		
B		
BV		BALANCING VALVE
BTU		BRITISH THERMAL UNIT
BOP		BOTTOM OF PIPE
BHP		BRAKE HORSEPOWER
BDD		BACK DRAFT DAMPER
C		
CFM		CUBIC FEET PER MINUTE
CD		CEILING DIFFUSER OR CONDENSATE DRAIN
CC		COOLING COIL
CW		COLD WATER
CT		COOLING TOWER
CP		CONDENSATE PUMP OR CIRCULATING PUMP
CONV		CONVECTOR
CONT		CONTINUATION
CO		CLEANOUT
CLG		COOLING
CHWS		CHILLED WATER SUPPLY
CHWR		CHILLED WATER RETURN
CUH		CABINET HEATER
CO2		CARBON DIOXIDE
D		
DX		DIRECT EXPANSION
DWG		DRAWING
DR		DRAIN
DN		DOWN
DIA Ø		DIAMETER
DB		DRY BULB
DI		DEIONIZED WATER
DS		DOWNSPOUT NOZZLE
DA		DENTAL AIR
DVAC		DENTAL VACUUM
DVEX		DENTAL VACUUM EXHAUST
E		
EA		EXHAUST AIR
EX		EXISTING
EWI		ENTERING WATER TEMPERATURE
EWB		ENTERING WET BULB
EUH		ELECTRIC UNIT HEATER
ET		EXPANSION TANK
EHC		ELECTRIC HEATING COIL
EFF		EFFICIENCY
EF		EXHAUST FAN
EWI		ELECTRIC WATER COOLER
EDB		ENTERING DRY BULB
ECH		ELECTRIC CABINET HEATER
EAT		ENTERING AIR TEMPERATURE
EEW		EMERGENCY EYE WASH
ESH		EMERGENCY SHOWER
ESEW		EMERGENCY SHOWER/EYE WASH
F		
FDC		FIRE DEPARTMENT CONNECTION
FD		FLOOR DRAIN OR FIRE DAMPER
FC		FLEXIBLE CONNECTION
*F		DEGREES FAHRENHEIT
FU		FIXTURE UNIT
FTR		FIN TUBE RADIATION
FT		FEET
F/S		COMBINATION FIRE AND SMOKE DAMPER
FS		FLOW SWITCH OR FLOOR SINK
FP		FUEL OIL PUMP OR FIRE PUMP
FOV		FUEL OIL VENT PIPING
FOS		FUEL OIL SUPPLY PIPING
FOR		FUEL OIL RETURN PIPING
FLR		FLOOR
FLA		FULL LOAD AMPERES
G		
GAL		GALLONS
G		NATURAL GAS OR PROPANE GAS
GV		GATE VALVE
GPM		GALLONS PER MINUTE
H		
HB		HOSE BIBB
HW		HOT WATER
HWR		HOT WATER RETURN
HWS		HOT WATER SUPPLY
HC		HEATING COIL
HP		HORSEPOWER
HX		HEAT EXCHANGER
I		
IN		INCHES
ID		INSIDE DIMENSION
IA		INSTRUMENT AIR

ABBREVIATIONS		
J		JOCKEY PUMP
JP		
LWT		LEAVING WATER TEMPERATURE
L		LOUVER
LBS		POUNDS
LAT		LEAVING AIR TEMPERATURE
L		LAVATORY
LA		LAB AIR
M		
MAU		MAKE UP AIR UNIT
MS		MOP SINK
MOD		MOTOR OPERATED DAMPER
MIN		MINIMUM
MCC		MOTOR CONTROL CENTER
MBH		THOUSAND BTU PER HOUR
MAT		MIXED AIR TEMPERATURE
MAX		MAXIMUM
MA		MEDICAL AIR
MA IN		MEDICAL AIR INTAKE
MB		MOP BASIN
MCA		MINIMUM CIRCUIT AMPACITY
MOP		MAXIMUM OVERCURRENT PROTECTION
N		
NTS		NOT TO SCALE
NO		NORMALLY OPEN
NIC		NOT IN CONTRACT
NC		NORMALLY CLOSED
NZO		NITROUS OXIDE
N		NITROGEN
O		
OS&Y		OUTSIDE SCREW & YOKE GATE VALVE
ORL		OVERFLOW RAIN LEADER PIPING
OD		OUTSIDE DIMENSION
OBD		OPPOSED BLADE DAMPER
OA		OUTSIDE AIR
OX		OXYGEN
ORD		OVERFLOW ROOF DRAIN
P		
PSIG		POUNDS PER SQUARE INCH (GAUGE)
PSI		POUNDS PER SQUARE INCH
PRV		PRESSURE REDUCING VALVE OR POWER ROOF VENT
PHC		PREHEAT COIL
PG		PRESSURE GAUGE
PD		PRESSURE DROP OR PUMP DISCHARGE
P		PUMP
POT		POTABLE WATER
R		
RHW		RECIRCULATING HOT WATER
RTU		ROOF TOP UNIT
RPM		REVOLUTIONS PER MINUTE
RAF		RETURN AIR FAN OR RELIEF AIR FAN
RD		ROOF DRAIN
RA		RETURN AIR
RO		REVERSE OSMOSIS WATER
RL		RAIN LEADER
S		
SPKR		SPRINKLER
SP		STATIC PRESSURE OR SUMP PUMP
SF		SUPPLY FAN OR SQUARE FEET
SENS		SENSIBLE
SEP		SEWAGE EJECTOR PUMP
SD		SMOKE DAMPER OR SMOKE DETECTOR
SA		SUPPLY AIR
S		SINK
SS		SERVICE SINK
T		
TYP		TYPICAL
TOP		TOP OF PIPE
TC		TERMINAL COIL
U		
URINAL		URINAL
UH		UNIT HEATER
V		
VTR		VENT THRU ROOF
VD		VOLUME DAMPER
VAV		VARIABLE AIR VOLUME TERMINAL UNIT
VFD		VARIABLE FREQUENCY DRIVE
V		VENT
VAC		MEDICAL VACUUM
V EX		VACUUM EXHAUST
W		
WHY		WALL HYDRANT
WC		WATER CLOSET
WB		WET BULB
W		SANITARY WASTE
WAGO		WASTE ANESTHESIA GAS DISPOSAL
WH		WATER HEATER

LEGEND		
	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE	
	ROUND DUCT DIAMETER SIZE	
	OVAl DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE	
	FLEXIBLE DUCT	
	BALANCING DAMPER (VD) VOLUME DAMPER IN DUCT (BDD) BACK DRAFT DAMPER	
	(F/S) COMBINATION FIRE SMOKE DAMPER (RD) RADIATION DAMPER, (FD) FIRE DAMPER (SD) SMOKE DAMPER	
	ELBOW WITH TURNING VANES	
	BRANCH TAKEOFF WITH VOLUME DAMPER	
	RADIUS ELBOW	
	SLOT DIFFUSER	
	TERMINAL UNIT WITH HEATING COIL	
	SUPPLY CEILING DIFFUSER	
	RETURN REGISTER OR GRILLE	
	EXHAUST REGISTER OR GRILLE	
	RECTANGULAR SUPPLY DUCT UP	RECTANGULAR SUPPLY DUCT DOWN
	ROUND SUPPLY DUCT UP	ROUND SUPPLY DUCT DOWN
	RECTANGULAR RETURN DUCT UP	RECTANGULAR RETURN DUCT DOWN
	ROUND RETURN DUCT UP	ROUND RETURN DUCT DOWN
	RECTANGULAR EXHAUST DUCT UP	RECTANGULAR EXHAUST DUCT DOWN
	ROUND EXHAUST DUCT UP	ROUND EXHAUST DUCT DOWN
	RECTANGULAR OUTSIDE AIR DUCT UP	RECTANGULAR OUTSIDE AIR DUCT DOWN
	ROUND OUTSIDE AIR DUCT UP	ROUND OUTSIDE AIR DUCT DOWN
	① ₂	THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
	(H)	HUMIDISTAT

LEGEND	
	RELIEF VALVE
	ARROW INDICATES DIRECTION OF FLOW
	AIR VENT
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	AUTOMATIC FLOW CONTROL VALVE
	BACK FLOW PREVENTER-RPZ
	BALANCING VALVE
	BALL VALVE
	BOTTOM PIPE CONNECTION
	BUTTERFLY VALVE
	CAPPED PIPE WITH SHUT-OFF VALVE
	CHECK VALVE, FLOW DIRECTION
	CONCENTRIC REDUCER
	DIRT POCKET
	EXTERIOR WALL HYDRANT, FROST FREE
	FLOOR CLEANOUT/GRADE CLEANOUT
	FLOW MEASURING STATION
	GAS PRESSURE REGULATOR
	GATE VALVE
	GLOBE VALVE
	HOSE BIBB
	OS&Y (OUTSIDE SCREW & YOKE) VALVE
	PIPE ANCHOR
	PIPE DOWN
	PIPE EXPANSION JOINT
	PIPE GUIDE
	PIPE UP
	PIPING FLEXIBLE CONNECTION
	PRESSURE GAUGE AND GAUGE COCK
	PRESSURE REDUCING VALVE (PRV)
	PUMP
	SHOCK ABSORBER/WATER HAMMER ARRESTOR
	SLEEVE
	SOLENOID VALVE
	STEAM TRAP
	TEMPERATURE SENSOR
	THERMOMETER
	TOP PIPE CONNECTION
	UNION
	WALL CLEANOUT
	"Y" TYPE STRAINER
	"Y" TYPE STRAINER WITH HOSE END BLOW OFF VALVE
	ZONE VALVE

LEGEND	
	COMPRESSED AIR LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER CIRCULATION
	OVERFLOW RAIN LEADER PIPING
	OVERFLOW RAIN LEADER PIPING (BELOW GRADE)
	RAIN LEADER PIPING
	RAIN LEADER PIPING (BELOW GRADE)
	REVERSE OSMOSIS WATER
	DEIONIZED WATER
	SANITARY WASTE, UNDERGROUND (AW - ACID WASTE UNDERGROUND)
	SANITARY WASTE, ABOVE GRADE (AW - ACID WASTE ABOVE GRADE)
	VENT PIPING (AV - ACID VENT)
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CONDENSATE DRAIN OR RETURN
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	COOLING TOWER RETURN
	COOLING TOWER SUPPLY
	FUEL OIL RETURN PIPING
	FUEL OIL SUPPLY PIPING
	FUEL OIL VENT PIPING
	HEAT PUMP RETURN
	HEAT PUMP SUPPLY
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	HIGH PRESSURE CONDENSATE RETURN
	NATURAL GAS PIPING
	PUMPED CONDENSATE RETURN
	STEAM HIGH PRESSURE RETURN
	STEAM HIGH PRESSURE SUPPLY
	MEDIUM PRESSURE STEAM
	STEAM LOW PRESSURE SUPPLY
	WELLFIELD LOOP RETURN
	WELLFIELD LOOP SUPPLY
	REFRIGERANT PIPING LIQUID
	REFRIGERANT PIPING SUCTION
	BOILER FEED

MEDICAL GAS	
	CO ₂ CARBON DIOXIDE
	IA INSTRUMENT AIR
	MA MEDICAL AIR
	VAC MEDICAL VACUUM
	N NITROGEN
	N ₂ O NITROUS OXIDE
	OX OXYGEN
	WAGO WASTE ANESTHESIA GAS DISPOSAL
	LA LAB AIR
	MA-IN MEDICAL AIR INTAKE
	V-EX VACUUM EXHAUST
	DA DENTAL AIR
	DVAC DENTAL VACUUM

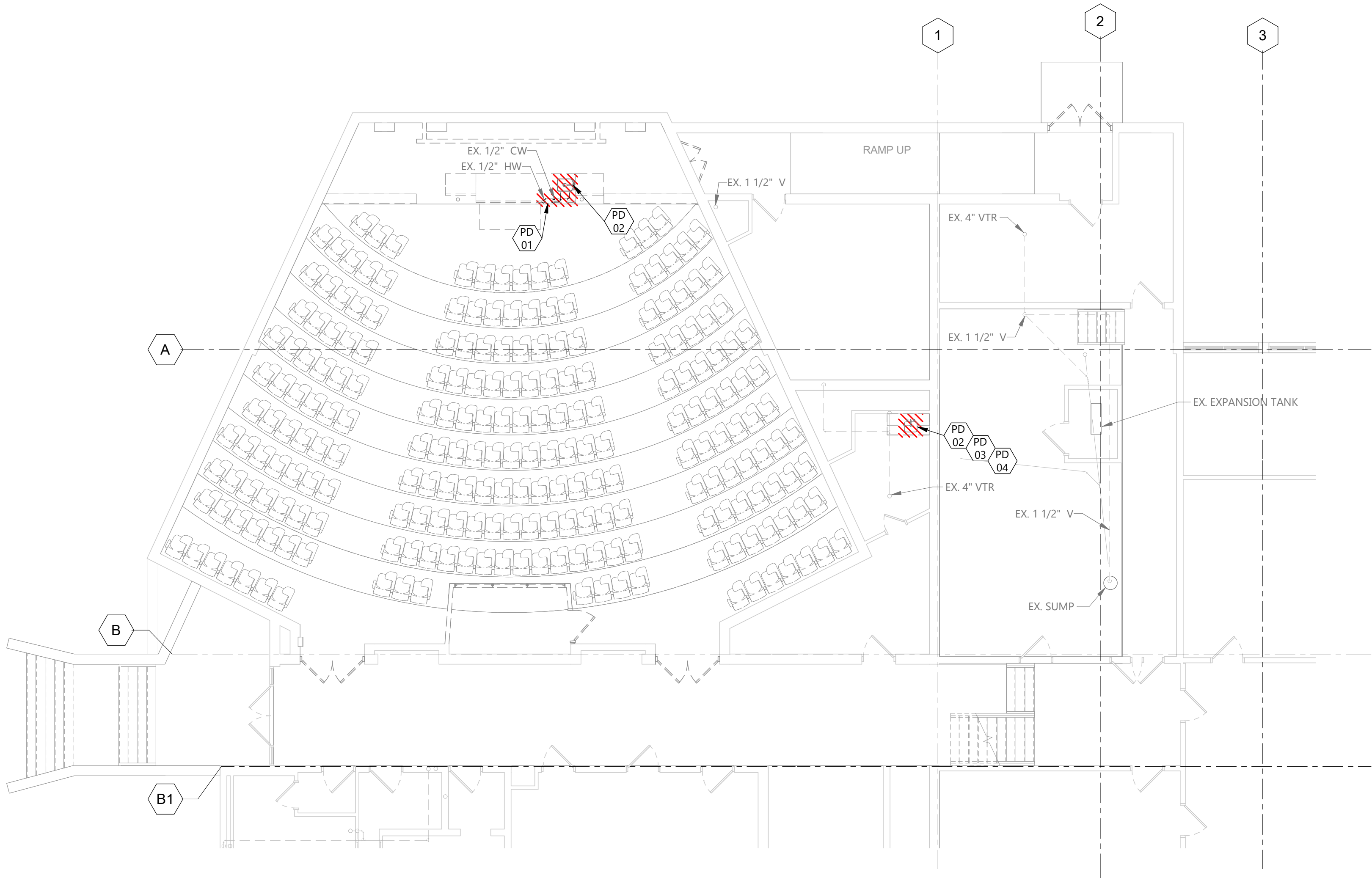
FIRE PROTECTION	
	SPRINKLER HEAD - DRY PENDANT SPRINKLER

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1
P101

FIRST FLOOR PLUMBING DEMOLITION PLAN

1/8" = 1'-0"



KEYNOTE LEGEND:

	< < < INDICATES KEYNOTE ON PLAN
PD 01	DISCONNECT, REMOVE & DISPOSE OF EXISTING DOMESTIC WATER PIPING AS INDICATED BY HATCH. PREPARE EXISTING PIPING TO REMAIN FOR CONNECTION OF NEW. FIELD VERIFY EXACT SIZE & LOCATION AS REQUIRED.
PD 02	DISCONNECT, REMOVE & DISPOSE OF EXISTING SINK & ALL ASSOCIATED PIPING. FIELD VERIFY EXACT SIZE & LOCATION AS REQUIRED.
PD 03	CAP FLUSH WITH FLOOR & ABANDON-IN-PLACE EXISTING SANITARY WASTE OUTLETS AS INDICATED BY HATCH. FIELD VERIFY EXACT SIZE & LOCATION AS REQUIRED. ABANDON ALL PIPING ACCORDING TO LOCAL CODES.
PD 04	DISCONNECT, REMOVE & DISPOSE OF EXISTING DOMESTIC WATER PIPING AS INDICATED BY HATCH. FIELD VERIFY EXACT SIZE & LOCATION AS REQUIRED. CAP FLUSH WITH WALL & ABANDON ALL PIPING ACCORDING TO LOCAL CODES.



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MOORE HALL

CITY	MINOT
STATE	ND

ISSUE DATES

MARK	DESCRIPTION	DATE
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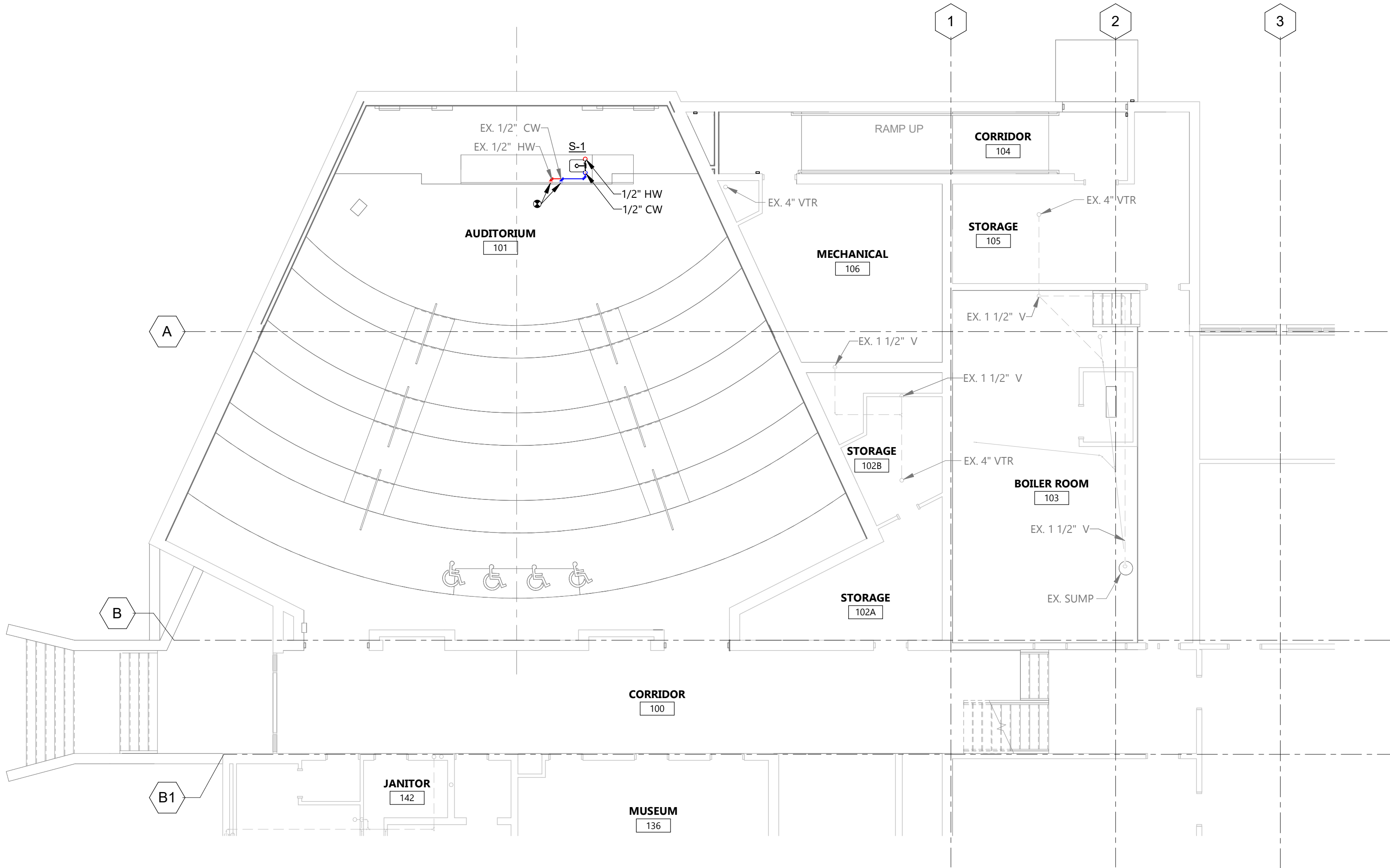
FIRST FLOOR
PLUMBING
DEMOLITION PLAN

P101

PLUMBING FIXTURE SCHEDULE

ITEM NO.	MANUFACTURER	MODEL NO.	DESCRIPTION	CONNECTION - INCHES				REMARKS
				WASTE	VENT	CW	HW	
S-1	-	-	INTEGRAL EPOXY RESIN SINK BY OTHERS	2"	1-1/2"			
	ZURN	Z826C4-XL-4F	CHROME PLATED, 4" WRISTBLADE HANDLES, 8" RIGID/SWING GOOSENECK SPOUT, SINGLE HOLE			1/2"	1/2"	2.2 GPM LAMINAR FLOW

NOTES:
1. PROVIDE COLD AND HOT WATER SCREWDRIVER STOPS AT ALL SINKS., LAVATORIES, ELECTRIC WATER COOLERS, ETC.
2. PROVIDE ESCUTCHEONS AT ALL WASTE AND WATER SUPPLIES AT EACH FIXTURE. ESCUTCHEONS SHALL COMPLETELY COVER WALL OPENING.
3. PROVIDE CLEANOUT AT ALL SINKS BELOW P-TRAP.



1 FIRST FLOOR PLUMBING PLAN
P201 1/8" = 1'-0"



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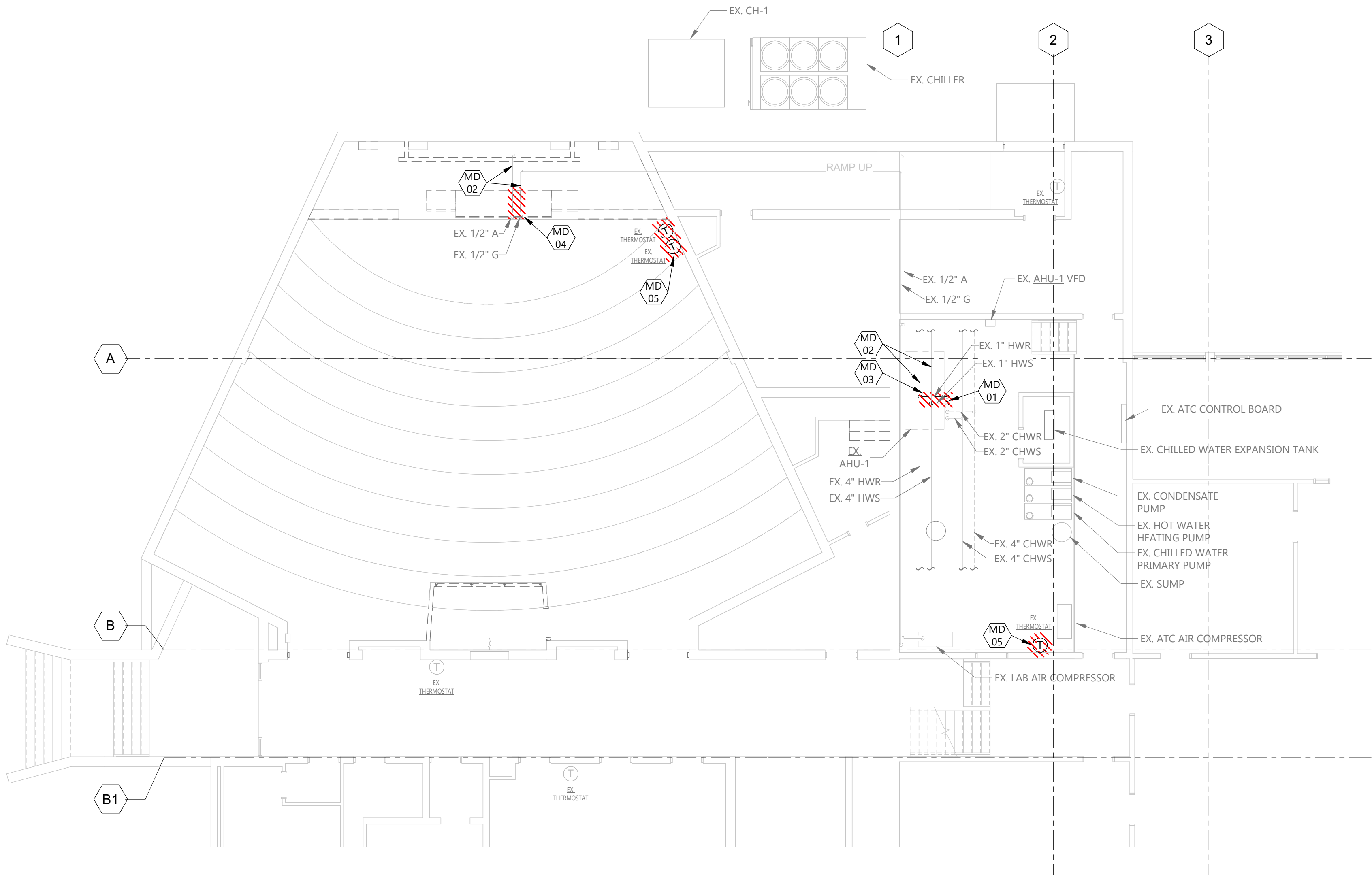
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FIRST FLOOR
PLUMBING PLAN

P201

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KEYNOTE LEGEND:

- < < < INDICATES KEYNOTE ON PLAN
- MD 01 DISCONNECT, REMOVE & DISPOSE OF EXISTING HYDRONIC PIPING & ASSOCIATED HANGERS, SUPPORTS, INSULATION, VALVES, GAUGES, ETC. AS INDICATED BY HATCH. FIELD VERIFY EXACT SIZE & LOCATION.
- MD 02 EXISTING PIPE TO REMAIN. PREPARE FOR CONNECTION TO NEW.
- MD 03 DISCONNECT, REMOVE & DISPOSE OF EXISTING HW HEATING COIL IN AHU-1. PREPARE FOR CONNECTION TO NEW.
- MD 04 DISCONNECT, REMOVE & DISPOSE OF EXISTING AIR & GAS PIPING & ASSOCIATED TURRETS, VALVES, FLANGES, ETC. ABOVE GROUND, AS INDICATED BY HATCH. FIELD VERIFY EXACT SIZE & LOCATION.
- MD 05 DISCONNECT & REMOVE EXISTING THERMOSTATS & CONTROLS. SAVE CONTROLS WIRING FOR RECONNECTION TO NEW.



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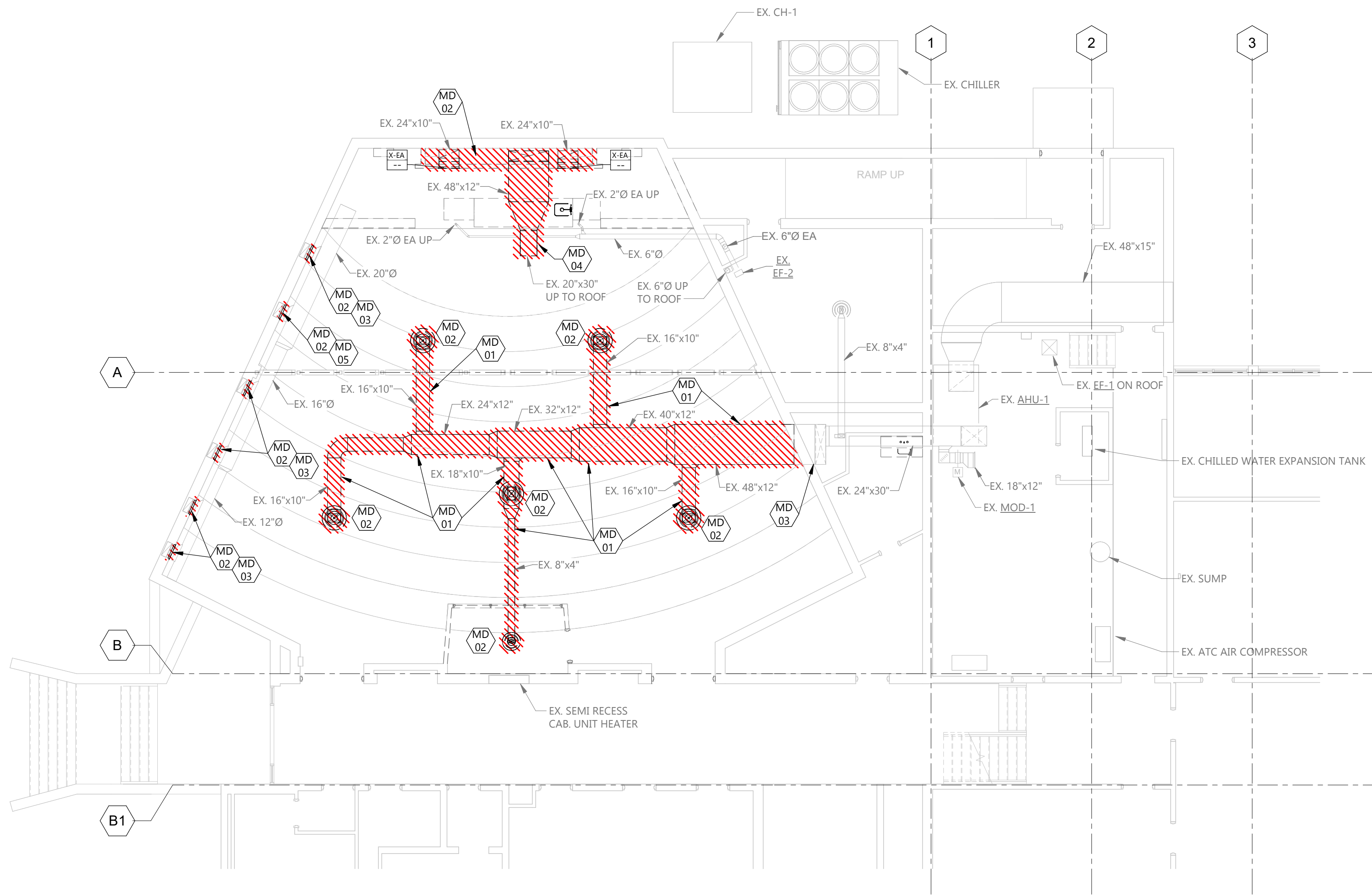
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FIRST FLOOR
HYDRONICS
DEMOLITION PLAN

M101



KEYNOTE LEGEND:	
	< < INDICATES KEYNOTE ON PLAN
MD 01	DISCONNECT, REMOVE & DISPOSE OF EXISTING DUCTWORK & ASSOCIATED SUPPORTS, HANGERS, INSULATION ETC. AS INDICATED BY HATCH. FIELD VERIFY EXACT SIZE & LOCATION.
MD 02	DISCONNECT, REMOVE & DISPOSE OF EXISTING GRILLE, REGISTERS, DIFFUSERS & ASSOCIATED DUCTWORK AS INDICATED BY HATCH. FIELD VERIFY EXACT SIZE & LOCATION.
MD 03	EXISTING DUCTWORK TO REMAIN. PREPARE FOR CONNECTION OF NEW.
MD 04	DISCONNECT, REMOVE & DISPOSE OF EXISTING RELIEF FAN ON ROOF AS INDICATED BY HATCH. FIELD VERIFY EXACT SIZE & LOCATION. CURB TO REMAIN & PREPARE FOR CONNECTION OF NEW.
MD 05	CAP RETURN DUCT BRANCH AT EXISTING WALL.



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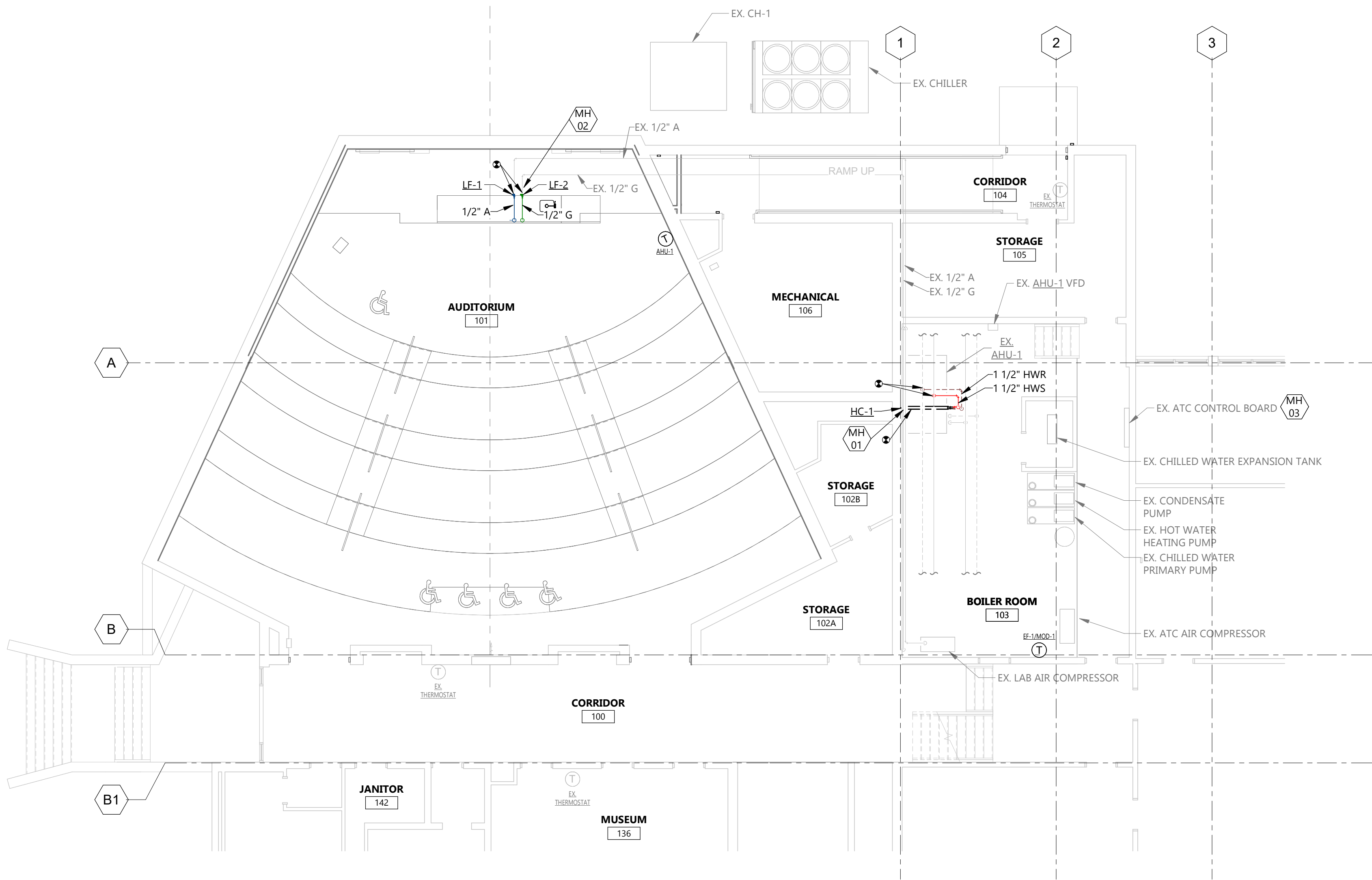
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FIRST FLOOR
VENTILATION
DEMOLITION PLAN

M102

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KEYNOTE LEGEND:

- < < < INDICATES KEYNOTE ON PLAN
- MH 01 INSTALL HC-1 IN AHU-1 IN SAME POSITION AS PREVIOUSLY REMOVED HEATING COIL. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PIPING PER DETAIL.
- MH 02 BLEED AIR & GAS LINES TO REMOVE DEBRIS & MOISTURE BEFORE INSTALLING NEW FITTINGS.
- MH 03 ALL CONTROLS AND HARDWARE REQUIRED FOR AHU-1, RF-1, EF-1, AND ASSOCIATED EQUIPMENT SHALL BE UPDATED AS A PART OF THIS PROJECT.



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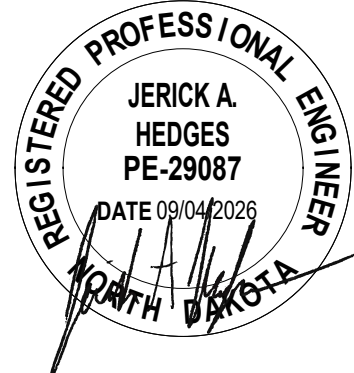
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HYDRONICS PLAN

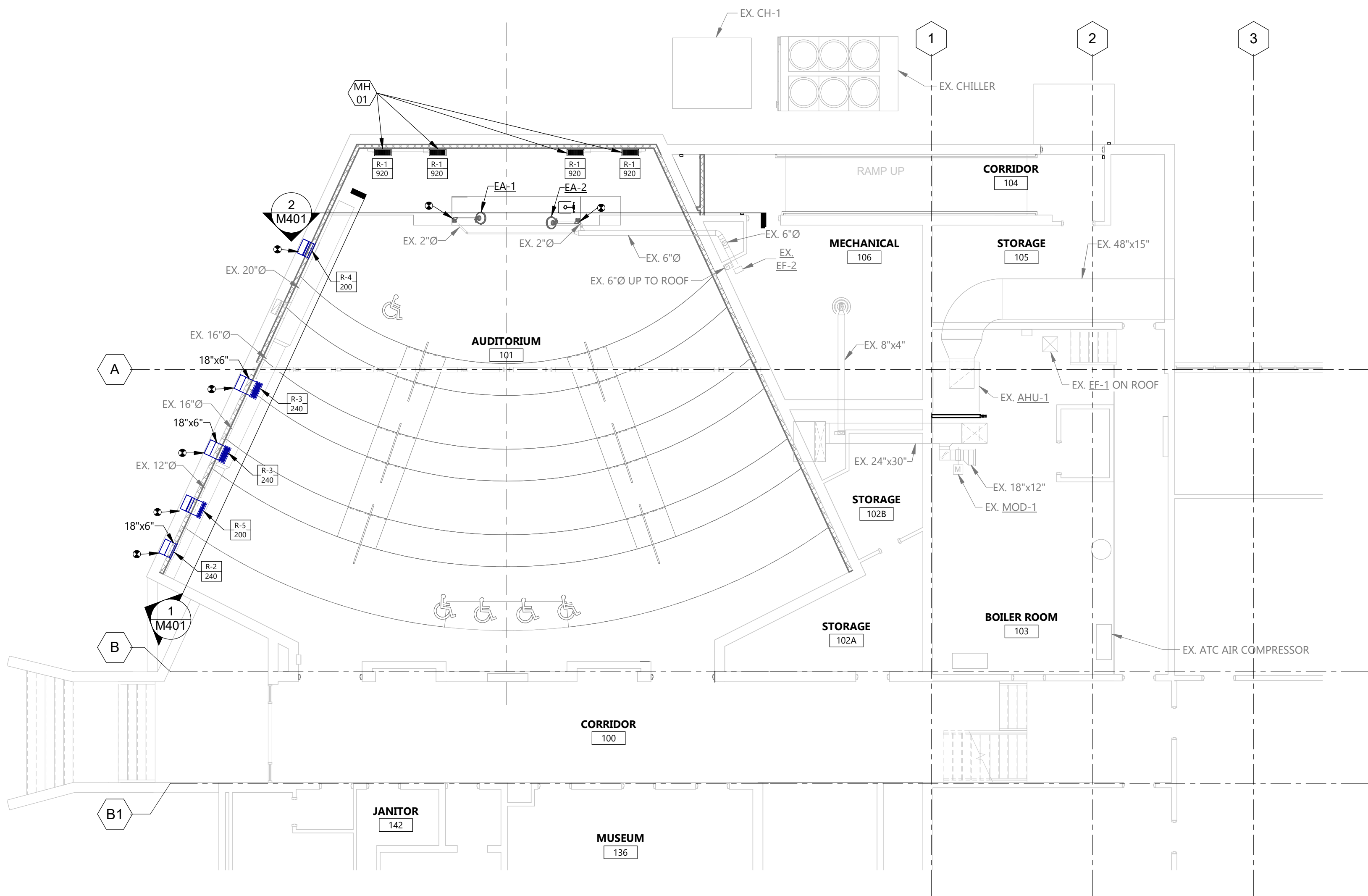
M201

1 FIRST FLOOR HYDRONICS PLAN
M201 1/8" = 1'-0"

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1
M301

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



KEYNOTE LEGEND:

<<< INDICATES KEYNOTE ON PLAN
MH 01 MC SHALL THOROUGHLY CLEAN UNDERFLOOR RETURN AIR TUNNEL FROM ALL DUST AND DEBRIS PER SPECIFICATIONS.



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VENTILATION PLAN

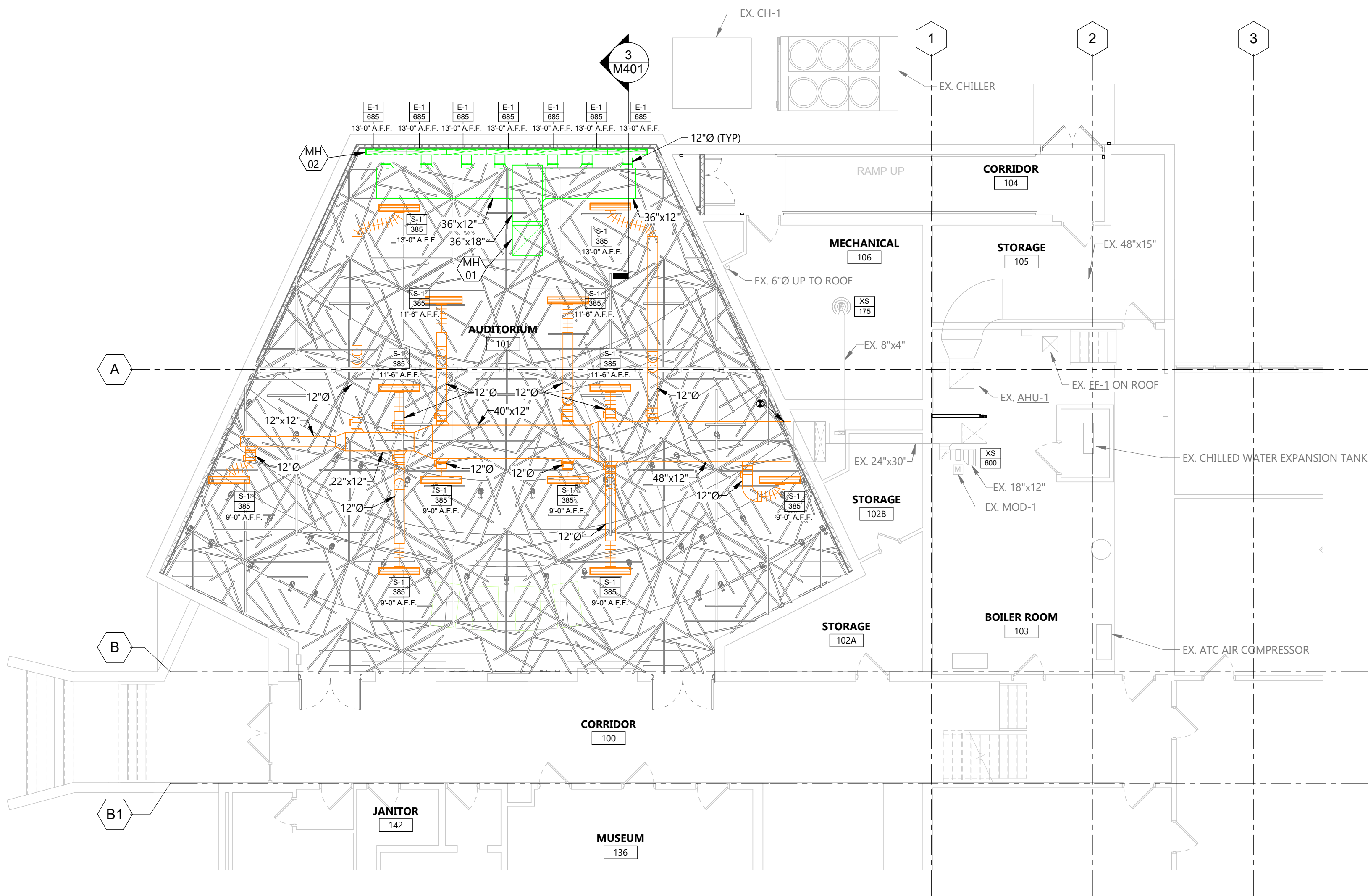
M301



1
M302

FIRST FLOOR VENTILATION ABOVE CEILING PLAN

1/8" = 1'-0"



GENERAL NOTES

1. ALL DUCTWORK SHALL BE LOCATED ABOVE ARCHITECTURAL CEILING.
2. FACE OF DIFFUSERS SHALL BE BELOW ARCHITECTURAL CEILING. REFER TO SECTION VIEW 1/A421 FOR A.F.F. REFERENCE LOCATIONS. COORDINATE EXACT DIFFUSER LOCATIONS WITH G.C. PRIOR TO INSTALL.
3. ALL ABOVE CEILING DUCTWORK SHALL BE PAINT GRIP DUCT. PAINT BY G.C.
4. ALL ABOVE CEILING DUCTWORK SHALL BE INSULATED WITH DUCT LINER PER SPECIFICATIONS.

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

- MH 01 36"x36" UP - CONNECT TO EXISTING CURB FOR RE-1. INSTALL RE-1 ON ROOF PER DETAIL.
- MH 02 MC TO BUILD CONTINUOUS 28'-0" LONG PLENUM ABOVE ALL EXHAUST DIFFUSERS (E-1).



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FIRST FLOOR
VENTILATION ABOVE
CEILING PLAN

M302

PROJECT DESCRIPTION

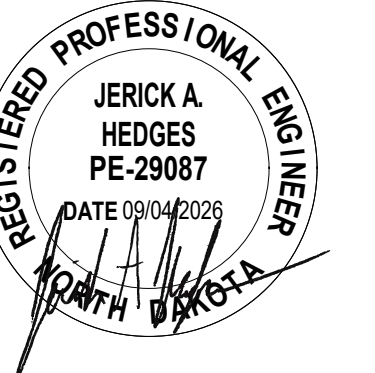
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MECHANICAL
SECTIONS

M401



SEQUENCE OF OPERATIONS

SUMMARY: This Section includes control sequences for HVAC systems, subsystems, and equipment. The control system shall consist of all controls required to provide the sequence of operations as specified. DDC contractor is responsible for adjusting all trim and respond variables and control loops to ensure optimal control of equipment.
RELATED SECTIONS & REQUIREMENTS: Testing of these systems, as well as Operations & Maintenance (O&M) Manuals and Training of the Owner's personnel, is required in cooperation with the Owner and General Contractor.
ACTION SUBMITTALS: Product Data - Manufacturer's technical literature for each product and system indicated. Include manufacturer's specifications for materials, finishes, construction details, installation instructions, and recommendations for maintenance.
SHOP DRAWINGS: Show details of fabrication and installation, including plans, elevations, sections, details of components and attachments to other work. Distinguish between shop and field-assembled work.

OCCUPANCY SCHEDULE (adj.)
School Year (4th Monday of August through 2nd Friday of May)
Occupied Hours:
Monday thru Friday: 5:30AM — 9:30PM
Saturday thru Sunday: 7:30AM — 9:00PM
Summer Schedule (All dates outside of School Year defined above)
Occupied Hours:
Sunday thru Saturday: 7:30AM — 9:00PM
Operator workstation shall include a manual override of occupancy schedule for a set timeframe before returning to occupancy schedule provided above.

AIR HANDLING UNIT (AHU-1)

1. System Description

- Single-zone, VFD-driven air handling unit serving the auditorium. Unit provides mixed-air ventilation with economizer capability, CO2-based demand-controlled ventilation (DCV), cooling coil, heating coil, and variable-speed supply fan. Outside air is modulated between a minimum of 155 CFM and a maximum of 1,300 CFM based on space CO2, except during economizer operation when outside air shall increase up to 4,800 CFM for free cooling.

2. Modes of Operation

- Occupied Mode (per schedule)
 - Supply fan runs continuously.
 - Space temperature, CO2, and economizer control are active per Sections 3-6.
- Unoccupied Mode
 - Supply fan cycles to maintain unoccupied heating/cooling setback setpoints: 65°F heating / 80°F cooling (adj.).
 - Outside air damper closes to 0% - mechanical cooling/heating uses 100% recirculated air.
 - Economizer disabled in unoccupied mode.
- Warm-Up/Cool-Down Mode
 - 60 min (adj.) prior to scheduled occupancy, unit operates in recirculation (OA damper at 0%) with heating or cooling as needed to bring space to occupied setpoint before doors open.
 - Unit transitions to Occupied Mode automatically at scheduled start time or upon space temperature reaching setpoint, whichever is later.

3. Supply Fan Control (VFD) - Discharge Air Temperature Reset

- Control Strategy
 - Fan speed is modulated by VFD to maintain the active discharge air temperature (DAT) setpoint
 - 100°F (adj.) in heating
 - 55°F (adj.) in cooling
- Minimum - fan speed shall not go below the greatest of:
 - Ventilation floor: minimum CFM required to deliver the DCV-commanded outside air rate per Section 4.
 - Distribution floor: minimum 1400 CFM (adj.) for acceptable diffuser throw/air distribution in the space.
- Maximum
 - Fan speed shall not exceed speed required to deliver 5,400 CFM (adj.).
- Loop Priority / Anti-Hunt
 - Heating calls: heating valve shall stage/modulate coarsely while fan speed acts as the fast-responding trim to hold DAT setpoint. Fan is the lead actuator; valve follows.
 - Cooling calls: cooling valve similarly modulates coarsely while fan speed trims to hold 55°F DAT; economizer OA damper (Section 5) shall also contribute cooling capacity ahead of mechanical cooling, per existing economizer sequence.
 - Only one mode (heating or cooling) shall be active at a time; fan speed control shall reference whichever DAT setpoint corresponds to the active call, with a neutral deadband between modes to prevent short-cycling between heating and cooling calls.
- High Static Pressure Safety (retained as a limit, not primary control)
 - Static pressure is no longer the primary fan speed control variable but remains a hard safety cutout: if supply duct static pressure exceeds a high limit 3.5 in. w.c. (adj.) for more than 10 seconds, fan shall shut down and alarm, regardless of DAT loop demand.

4. Outside Air / Demand-Controlled Ventilation (Non-Economizing)

- Applies whenever the economizer is NOT active (Section 5 conditions not met).
- CO2 sensor located in return air duct monitors space CO2 concentration.
- CO2 setpoint: 800 ppm (adj.)
- OA damper position (or dedicated OA airflow measuring station setpoint) is reset linearly between:
 - 155 CFM (minimum OA) when CO2 ≤ 400 ppm
 - 1,300 CFM (maximum OA, DCV-commanded) when CO2 ≥ 800 ppm setpoint
- OA damper shall never close below 155 CFM whenever the unit is in Occupied mode and the space is called occupied, regardless of CO2 reading.
- Control loop: PID or trim-and-respond, sample/adjust interval per BAS standard (every 5 minutes), to avoid short-cycling the damper actuator.

5. Economizer Control

- Economizer is enabled only during Occupied mode when cooling is being called by the space/discharge air control loop (Section 6).
- Differential enthalpy - when the OA enthalpy is less than the RA enthalpy, economizer mode shall engage
- When economizer conditions are satisfied (OA suitable for free cooling and cooling is called):
 - OA damper (and matching RA damper, inversely) modulates above the DCV-commanded minimum up to 4,800 CFM
 - to satisfy the discharge air/space cooling setpoint without mechanical cooling.
- OA damper position is the greater of (a) the DCV-commanded CO2 reset value, or (b) the economizer cooling-demand value - economizer only ever increases OA above the ventilation-required minimum, never below it.
- When economizer high-limit is exceeded, or cooling is satisfied, or mode is not Occupied: OA damper returns to DCV control per Section 4, and mechanical cooling (Section 6) resumes as needed.
- Economizer lockout during Unoccupied and Warm-Up modes.

6. Discharge Air Temperature / Coil Control

- Heating Mode
 - DAT setpoint: 100°F (adj.)
 - Range: 90-105°F
 - HW heating valve opens/stages in response to a call for heat; fan speed (Section 3) modulates to hold the 100°F DAT setpoint as load varies, up to the 5,400 CFM maximum.
- Cooling Mode
 - DAT setpoint: 55°F (adj.)
 - Range: 52-58°F
 - CHW cooling valve opens/stages in response to a call for cooling; fan speed (Section 3) modulates to hold the 55°F DAT setpoint as load varies, up to 5,400 CFM maximum.
- Economizer (Section 5) shall be evaluated first when a cooling call exists and conditions are favorable - OA damper opens toward 100% OA ahead of/in place of mechanical cooling. Fan speed under economizer-only cooling shall still be governed by the DAT loop (Section 3), not a separate economizer-specific speed logic.
- DAT Reset by Occupancy/CO2
 - 55°F/100°F DAT setpoints shall be reset as CO2/occupancy trends indicate lower sensible load

7. Safeties and Interlocks

- Freeze protection: low-limit freezestat upstream of cooling coil; if discharge temp drops below 38°F (adj.), unit shuts down fan, closes OA damper fully, opens heating valve fully, and alarms.
- Smoke detection: duct smoke detectors in supply and return shut down fan and alarm shall annunciate at the BAS. The smoke detector shall be interlocked to the unit through the dry contacts of the smoke detector. A manual reset of the smoke detector shall be required to restart the unit.
- Fire alarm shut down relay: provide a Fire Alarm Shut down relay for interconnection to the building fire alarm system for AHU and EF. If signal from the fire alarm is given to the BAS, BAS shall shutdown each AHU/RF in a safe shut down sequence.
- Filter status: differential pressure switch across filter bank alarms on high differential (dirty filter) - does not shut down unit.
- Fan status: current sensor/differential pressure proving switch confirms fan operation; alarm on fan-call-but-no-status.
- CO2 sensor failure/out-of-range: if CO2 signal fails or reads out of expected range, OA damper defaults to maximum DCV position (1,300 CFM) as a fail-safe, and alarms to BAS for sensor service.

8. Alarms (to BAS)

- High duct static pressure
- Freeze stat trip
- Smoke detector trip
- Dirty filter
- Fan failure (call vs. status mismatch)
- CO2 sensor fault/out-of-range
- Discharge air temperature deviation from setpoint beyond adjustable deadband for >15 minutes

9. Operator Station Display: Indicate the following on operator workstation display terminal:

- Full System Real Time Graphics
- Outside air temperature indication
- General return air relative humidity indications
- Space CO2 level (displayed in ppm)
- HW coil air temperature setpoint
- HW coil air temperature indication
- HW coil control signal
- HW coil control valve position
- CHW coil air temperature setpoint
- CHW coil air temperature indication
- CHW coil control signal
- CHW coil control valve position
- Supply fan on-off indication
- Supply fan discharge air temperature indication
- Supply fan discharge air temperature setpoint
- Supply fan discharge static pressure indication
- Supply fan discharge static pressure setpoint
- Supply fan speed (hz)
- Mixed air temperature indication
- Freeze stat indication
- Ventilation Airflow
- Outside air economizer damper position
- Return air damper position
- Building zone static pressure
- Outside air pressure
- Space temperature setpoint
- Outside air enthalpy indication
- Return air enthalpy indication

RELIEF FAN (RF-1)

1. System Description

- Relief fan RF-1 is provided to relieve building/space positive pressure created by outside air introduction at AHU-1 (ventilation minimum, DCV-modulated OA, and economizer free-cooling airflow up to 4,800 CFM. RF-1 operates in coordination with AHU-1's outside air damper position and supply fan status to maintain proper building pressurization without inducing negative pressure or excessive infiltration.

2. Modes of Operation

- Occupied Mode
 - RF-1 is enabled whenever AHU-1 supply fan is proven on and outside air damper position is above the minimum OA position.
 - RF-1 modulates per Section 3 to track AHU-1 OA airflow.
- Unoccupied Mode
 - RF-1 is disabled (OA damper at 0% per AHU-1 Section 2, so no relief air is required).
- Warm-Up/Cool-Down Mode
 - RF-1 is disabled (OA damper at 0% per AHU-1 Section 2).

3. Relief Fan Capacity Control (VSD)

- RF-1 shall be provided with a VSD and shall modulate to track outside air intake at AHU-1, maintaining space static pressure setpoint
- Control method - building static pressure: A building/space static pressure sensor provides the primary control signal. RF-1 VSD modulates speed to maintain building static pressure setpoint of +0.01 to +0.03 in. w.c. (adj.) relative to outdoors.

4. Sequencing with AHU-1

- RF-1 shall not run whenever AHU-1 supply fan is off - prevents relieving a building that has no supply airflow, which would depressurize the space.
- On AHU-1 startup (Warm-Up transition to Occupied), RF-1 shall start with a short time delay of 30 seconds (adj.) after AHU-1 supply fan proof, to avoid momentarily depressurizing the building before supply airflow is established.
- On AHU-1 shutdown, RF-1 shall stop immediately (or on a short delay) upon loss of AHU-1 supply fan status.

5. Safeties and Interlocks

- Fan status: current sensor or differential pressure proving switch confirms RF-1 operation whenever commanded on; alarm on fan-call-but-no-status.
- Smoke detection: RF-1 shall shut down upon signal from supply or return/relief duct smoke detectors, or upon fire alarm system general shutdown signal, consistent with AHU-1 life-safety shutdown.
- VSD fault: RF-1 VSD fault shall alarm to BAS; unit reverts to failed-off state.
- High/low building static pressure alarm: alarm to BAS if building static deviates outside acceptable range (beyond ±0.05 in. w.c.) for greater than a time delay 10 minutes (adj.), indicating RF-1/AHU-1 imbalance, damper fault, or envelope issue.

6. Alarms (to BAS)

- Relief fan failure (call vs. status mismatch)
- VSD fault
- Building static pressure out of range (high or low)
- Smoke detector trip / fire alarm shutdown

7. Operator Station Display: Indicate the following on operator workstation display terminal:

- Full System Real Time Graphics
- Relief Fan on-off indication
- Relief -fan speed
- Building zone static pressure
- Outside air pressure

EXHAUST FAN (EF-1) & MECHANICAL ROOM BRANCH DUCT AUTOMATIC DAMPER (MOD-1)

1. System Description

- A branch duct off the AHU-1 supply main feeds a dedicated mechanical/equipment room. This branch is normally closed and is not part of the auditorium's continuous ventilation/conditioning air path. When the mechanical room requires cooling, a motorized damper opens to admit 600 CFM supply air from AHU-1, and a dedicated exhaust fan (EF-1) energizes to pull air through the space and relieve it to the exterior at a rate of 650 CFM, providing spot cooling/ventilation independent of the auditorium's occupancy-based control.

2. Control Inputs

- Mechanical room space temperature sensor (see plans).
- Cooling setpoint: 85°F (adj.) for an equipment/mechanical room.
- AHU-1 supply fan status (interlock - branch damper shall not open if there's no supply air available to deliver).

3. Sequence of Operation

- Normal Condition (room temperature below setpoint)
 - Motorized damper on the branch duct is closed.
 - Exhaust fan EF-1 is off.
 - No supply air is diverted from AHU-1 to the mechanical room; all AHU-1 output serves the auditorium per its normal sequence.
- Cooling Call (room temperature rises to setpoint)
 - When mechanical room temperature rises to the cooling setpoint (deadband setpoint +2°F (adj.)), the following occur simultaneously:
 - Motorized damper on the branch duct opens, admitting AHU-1 supply air into the mechanical room.
 - Exhaust fan EF-1 energizes, pulling air through the mechanical room and relieving it outdoors, creating the flow path that draws supply air through the space rather than allowing it to just pressurize the room.
 - Interlock: damper shall only be commanded open if AHU-1 supply fan status is proven on. If AHU-1 is off (unoccupied/scheduled down), damper remains closed and EF-1 shall be sequenced per Section 3 (standalone backup) rather than relying on AHU-1 air.
 - Time delay on damper/fan energization setpoint 10 seconds (adj.) between damper open command and EF-1 start, to allow the damper to reach open position before the exhaust fan begins pulling.
- Satisfied Condition
 - When mechanical room temperature falls below setpoint minus deadband setpoint -2°F (adj.), damper closes and EF-1 de-energizes, with EF-1 stopping first and damper closing on a short delay behind it.

4. Safeties and Interlocks

- AHU-1 supply fan status interlock: branch damper shall not open (Section 3 primary mode) unless AHU-1 supply fan is proven on.
- EF-1 fan status: current sensor or differential pressure switch confirms fan operation whenever commanded on; alarm on call-but-no-status.
- High-temperature alarm: independent of the control sequence, a high-temperature alarm setpoint 100°F (adj.) shall be sent to BAS if the standalone/backup mode (Section 3) fails to control room temperature, indicating potential equipment damage risk.
- Damper end-switch feedback: damper actuator provides open/closed position feedback to BAS to confirm actual damper position matches command, particularly important since this damper is normally closed and infrequently cycled - end-switch feedback helps catch a stuck-closed damper before it becomes an equipment failure.

5. Alarms (to BAS)

- Mechanical room high-temperature alarm
- EF-1 fan failure (call vs. status mismatch)
- Damper position feedback mismatch (commanded vs. actual, if end-switches provided)
- Standalone/backup mode activation notifies that AHU-1 was unavailable during a cooling call

6. Operator Station Display: Indicate the following on operator workstation display terminal:

- Full System Real Time Graphics
- Exhaust Fan on-off indication
- Damper position
- Space temperature setpoint

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Schuler Shook

PROJECT DESCRIPTION

HOFFMAN
AUDITORIUM
RENOVATION - CYRIL
MOORE HALL

CITY MINOT

STATE ND

ISSUE DATES

CD	CONSTRUCTION DOCUMENTS	09/04/2026
MARK	DESCRIPTION	DATE

PROJECT NO: 20262120

DRAWN BY: SR

CHECKED BY: JH

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SEQUENCE OF
OPERATIONS

M701

LABORATORY FITTINGS SCHEDULE

ITEM NO.	MANUFACTURER	MODEL NO.	DESCRIPTION	CONNECTION - INCHES		NOTES
				GAS	AIR	
LF-1	CHICAGO FAUCETS	LGF1-A21C-65	CABINET-MOUNTED DUAL 90° FINE NEEDLE VALVE WITH FLANGE, LABORATORY 30-DEGREE ANGLED NOZZLE WITH 10 SERRATIONS FOR LABORATORY HOSE, LABEL WITH AIR BUTTON, MAX PRESSURE 125 PSI		1/2"	1
LF-2	CHICAGO FAUCETS	LGF1-A21C-65	CABINET-MOUNTED DUAL 90° FINE NEEDLE VALVE WITH FLANGE, LABORATORY 30-DEGREE ANGLED NOZZLE WITH 10 SERRATIONS FOR LABORATORY HOSE, LABEL WITH GAS BUTTON, MAX PRESSURE 7.25 PSI	1/2"		
NOTES: 1. PROVIDE WITH PARKER WATER SEPERATOR WSPX010CNFX OR APPROVED EQUAL.						

REGISTER-GRILLE-DIFFUSER SCHEDULE

TAG	TYPE	FACE	NECK SIZE	FRAME	CFM	1 = STEEL 2 = ALUM. 3= S. STEEL	1 = WHITE (B12) 2 = OFF WHITE (B13) 3 = BLACK (B17)	MANUF. UNLESS NOTED OTHERWISE	NOTES
						MATERIAL	FINISH	PRICE MODEL	
S-1	S	SLOT DIFFUSER (3) 1" SLOTS	12"Ø	5-3/8" x 48"	385		3	SDS100	1, 2, 4, 5
R-1	R	HEAVY DUTY LINEAR BAR GRILLE	12" x 24"	13-5/8" x 25-5/8"	920	2	3	LMBH	3, 4, 6, 7
R-2	R	FIXED GRILLE	6" x 18"	7-3/4" x 19-3/4"	240	1	2	530	3, 4, 6
R-3	R	HEAVY DUTY LINEAR BAR GRILLE	6" x 18"	7-5/8" x 19-5/8"	240	2	3	LMBH	3, 4, 6, 7
R-4	R	FIXED GRILLE	3" x 18"	4-3/4" x 19-3/4"	200	1	2	530	3, 4, 6
R-5	R	HEAVY DUTY LINEAR BAR GRILLE	3" x 18"	4-5/8" x 19-5/8"	200	2	3	LMBH	3, 4, 6, 7
E-1	E	SLOT DIFFUSER (4) 1" SLOTS	12"Ø	7-3/4" x 48"	685	1	3	SDR100	1, 4, 5
1. VERIFY MOUNTING LOCATION WITH ARCHITECTURAL PLANS. 2. FLEXIBLE DUCT SIZE SHALL MATCH DIFFUSER NECK SIZE. 3. MOUNTED PER MANUFACTURER'S INSTRUCTIONS. CAULK GRILLE TO WALLS & FLOORS FOR AIR TIGHT SEAL. BLOCKING BY GC. 4. NC 25 OR LESS SELECTION. 5. PROVIDE WITH CONTRACTOR FABRICATED INSULATED PLENUM. 6. PROVIDE WITH OPPOSED BLADE DAMPER (VCS3). 7. PRICE MODEL SELECTION: CORE BAR ORIENTATION = L, CORE STYLE = 15B, FRAME = 1000, MOUNT = C.									

FAN SCHEDULE

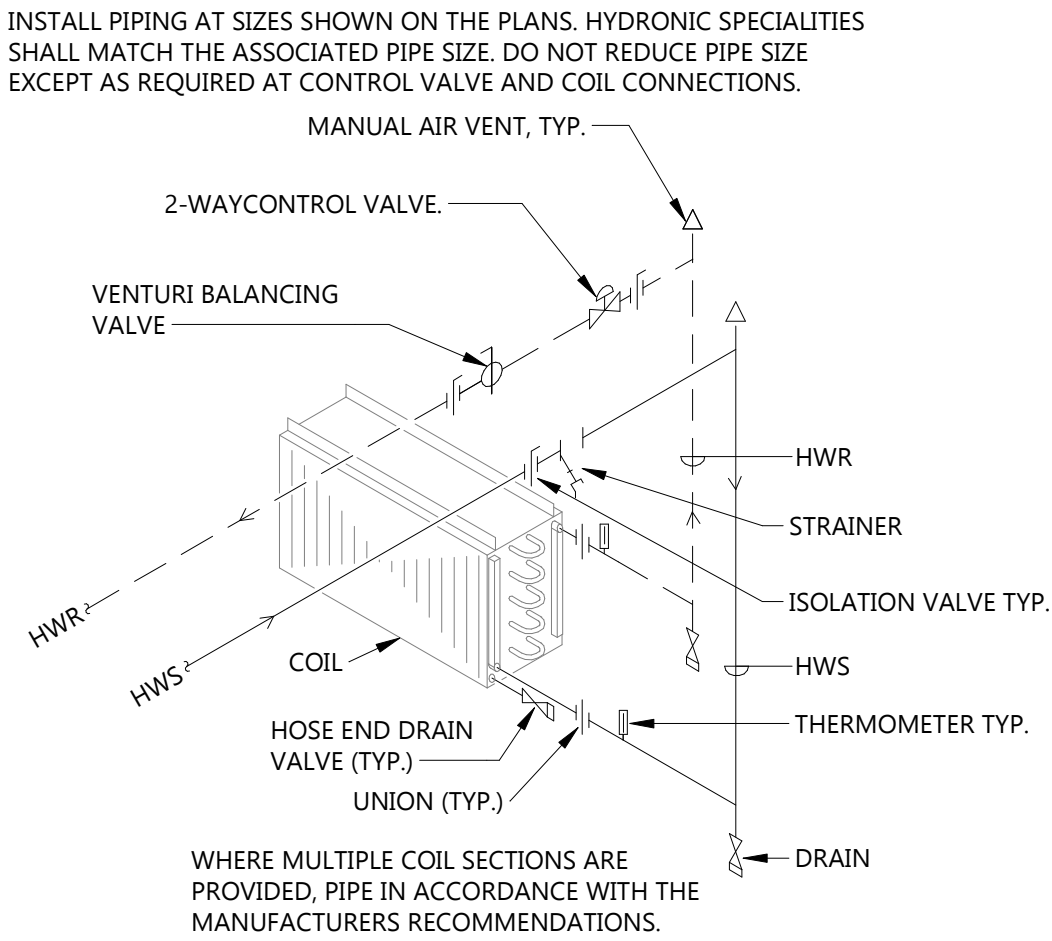
TAG	CFM	E.S.P.	MOTOR SIZE		VOLT/PHASE	RPM	FRPM	DRIVE	MANUFACTURER	MODEL	SOUND DATA (INLET)					NOTES
			BHP	HP							62.5	125	250	500	dBA	
RF-1	4,800	0.375	0.77	1	115 / 1	1,725	620	BELT	COOK	ACE-B	75	77	73	68	59	1, 2, 3, 4, 5, 6
1. PROVIDE WITH FACTORY SUPPLIED DISCONNECT. 2. PROVIDE WITH VARIABLE SPEED MOTOR CONTROLLER WITH 0-10VDC SPEED CONTROL. FAN SPEED SHALL BE CONTROLLED THROUGH BAS. 3. PROVIDE WITH FACTORY SUPPLIED VIBRATION ISOLATORS. 4. FAN SHALL BE UL LISTED. 5. PROVIDE WITH GRAVITY BACKDRAFT DAMPER WITH BIRDSCREEN. 6. PROVIDE WITH CURB ADAPTOR TO REUSE EXISTING 12" ROOF CURB. VERIFY CURB SIZE.																

HEATING COIL SCHEDULE

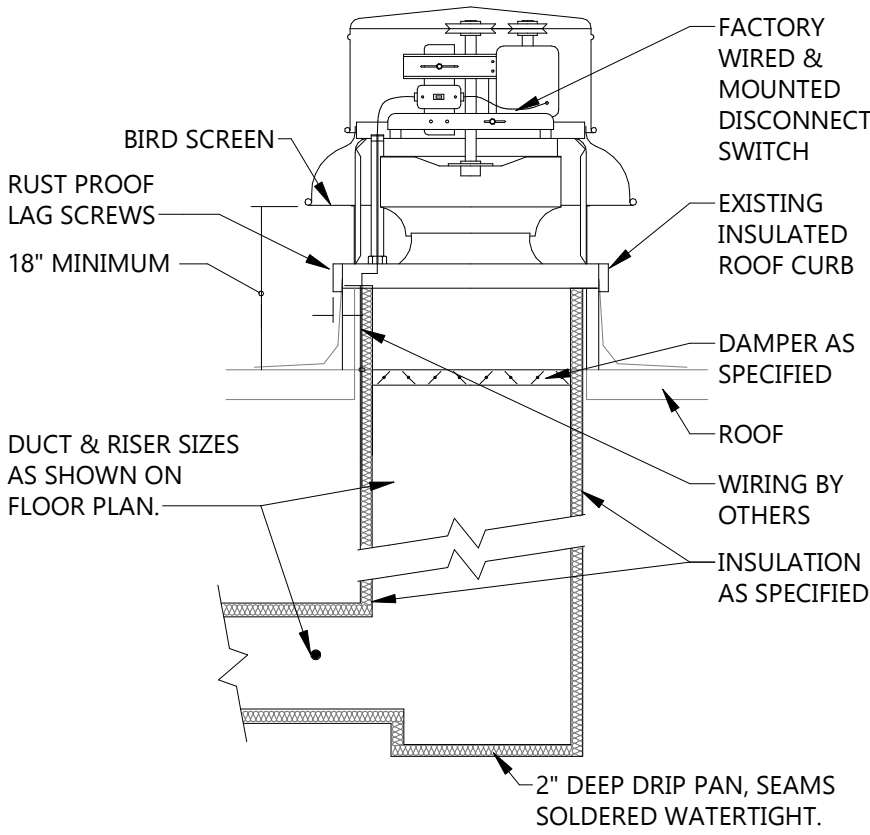
TAG	CFM	COIL CAP. (MBH)		HEATING AIR °F		COIL SIZE (W"x H")	CIRCULATING WATER (HEATING)		GPM	MAX PRESSURE DROP		NOTES:
		HEATING	ENT	LVG	TEMP. IN °F		TEMP. OUT °F	WATER		AIR		
HC-1	5,400	320.5	46	100	62.7" x 36"		180	140	18.20	1.9'	0.32"	1, 2, 3
1. COIL SELECTION BASED ON DAIKIN. 2. UNIT SHALL HAVE 50% ETHYLENE GLYCOL/ WATER MIXTURE. 3. MECHANICAL CONTRACTOR TO VERIFY COIL SIZE WILL FIT IN EXISTING AHU-1.												

EXHAUST ARM SCHEDULE

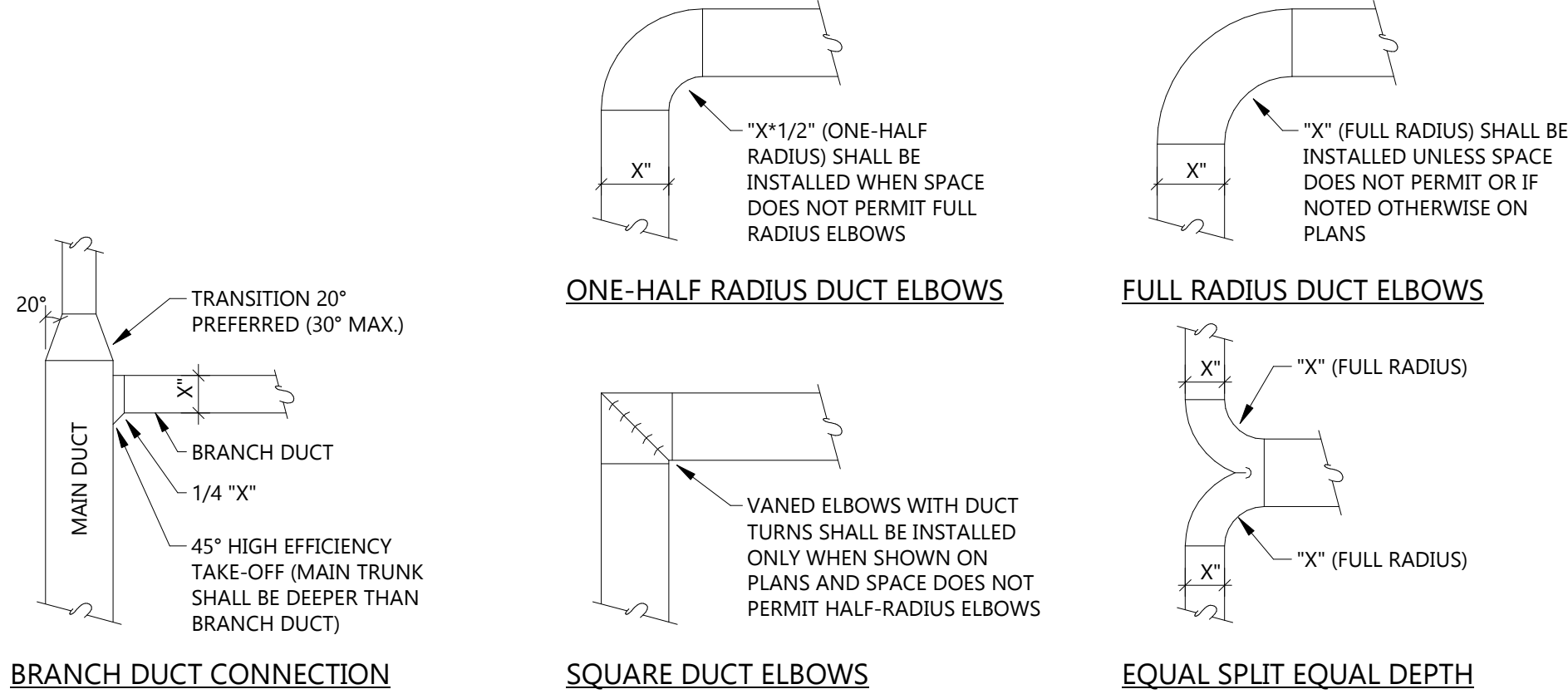
TAG	AREA SERVED	CFM	MANUFACTURER	MODEL	NOTES
EA-1	AUDITORIUM	100	NEDERMAN	FX2 50, 2"	1, 2, 3, 4
EA-2	AUDITORIUM	100	NEDERMAN	FX2 50, 2"	1, 2, 3, 4
1. PROVIDE WITH 360° ARM JOINT ROTATION AND SWIVEL. 2. EXTRACTION ARM TO BE MINIMUM OF 2" DIAMETER & 59" OVERALL LENGTH. 3. PROVIDE WITH ALL NECESSARY ACCESSORIES IN TABLE CONNECTION KIT FOR BENCHTOP INSTALLATION. 4. PROVIDE WITH CLEAR PLASTIC DOME HOOD.					



3 HOT WATER SINGLE COIL DETAIL
NO SCALE



2 DOWNBLAST FAN DETAIL
NO SCALE



1 DUCT DETAILS
NO SCALE



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MINOT STATE UNIVERSITY

PROJECT DESCRIPTION

HOFFMAN AUDITORIUM RENOVATION - CYRIL MOORE HALL

CITY MINOT
STATE ND

ISSUE DATES

CD	CONSTRUCTION DOCUMENTS	09/04/2026
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MECHANICAL SCHEDULES & DETAILS

M801

ELECTRICAL LEGEND

ABBREVIATIONS

A	- AMPERES	FO	- FIBER OPTICS	NTS	- NOT TO SCALE
AC	- ABOVE COUNTER	FT	- FEET	OC	- ON CENTER
ACCU	- AIR COOLED CONDENSING UNIT	FUT	- FUTURE	OCPD	- OVERCURRENT PROTECTION DEVICE
AF	- AMP-FUSE	FURN	- FURNISHED	OD	- OUTSIDE DIMENSION, OUTSIDE DIAMETER
AFF	- ABOVE FINISHED FLOOR	FUS	- FUSE, FUSED, FUSIBLE	OH	- OVERHEAD
AFG	- ABOVE FINISHED GRADE	GND	- GROUND	OL	- OUTLET, OVERLOAD
AHJ	- AUTHORITY HAVING JURISDICTION	GARB	- GARBAGE DISPOSAL	OP	- OPERATOR
AHU	- AIR HANDLING UNIT	GC	- GENERAL CONTRACTOR	PC	- PHOTO CONTROL
ALT	- ALTERNATE	GEN	- GENERATOR	Ø, PH	- PHASE
AL	- ALUMINUM	G/GFI	- GROUND FAULT CIRCUIT INTERRUPTOR	P.H.	- PENTHOUSE
AMP	- AMPLIFIER	GFP	- GROUND FAULT PROTECTION	PNL	- PANEL, PANELBOARD
ANN	- ANNUNCIATOR	HD	- HEAVY DUTY	PR	- PAIR
ARCH	- ARCHITECT (URAL)	HID	- HIGH INTENSITY DISCHARGE	PRJ	- PRIMARY
ATS	- AUTOMATIC TRANSFER SWITCH	HP	- HORSE POWER	PRO	- PROJECTOR
AV	- AUDIO VISUAL	HPS	- HIGH PRESSURE SODIUM	PRV	- POWER ROOF VENT
AUX	- AUXILIARY	HOA	- HAND-OFF-AUTO	PS	- POWER SUPPLY
BFG	- BELOW FINISHED GRADE	HT	- HEIGHT	QTY	- QUANTITY
BK	- BLACK	HTR	- HEATER	REC	- RECESSED
BKR	- BREAKER	HVU	- HEATING & VENTILATING UNIT	RCVR	- RECEIVER
BR	- BRANCH	HW	- HOT WATER	RECEPT	- RECEPTACLE
BTU	- BRITISH THERMAL UNIT	HWH	- HOT WATER HEATER	REF	- REFERENCE, REFER TO
CAB	- CABINET	ID	- INSIDE DIMENSION	REQ	- REQUIRE OR REQ REQUIRED
CALC	- CALCULATION	IDF	- INTERMEDIATE DISTRIBUTION FRAME	REV	- REVISION
CAT	- CATALOG	IN	- INCHES	REL	- REQUEST TO EXIT
CB	- CIRCUIT BREAKER	INB/OUT	- INBOARD/OUTBOARD	RXA	- RUNNING LOAD AMPS
CCT	- CIRCUIT	INCAND	- INBOARD/OUTBOARD	RM	- ROOM
CFL	- COMPACT FLUORESCENT LIGHT	INFO	- INFORMATION	RTU	- ROOF TOP UNIT
CKT	- CIRCUIT	INST	- INSTALLATION	SC	- SHORT CIRCUIT
CLG/C	- CEILING	INSUL	- INSULATION	SF	- SQUARE FEET
COMM	- COMMUNICATIONS	INV	- INVERTER	SHT	- SHEET
COMP	- COMPRESSOR	JB	- JUNCTION BOX	SD	- SMOKE DAMPER
CONN	- CONDUCTOR	KA	- THOUSAND AMPS	SP	- SUMP PUMP
CONN	- CONNECTOR	KS	- KNEE SPACE	SPEC	- SPECIFICATION
CR	- CARD READER	L	- LAMP	SS	- STAINLESS STEEL
CT	- CURRENT TRANSFORMER	LCP	- LIGHTING CONTROL PANEL	STD	- STANDARD
CTR	- CENTER	LRA	- LOCKED ROTOR AMPS	SURF	- SURFACE MOUNT
CU	- COPPER	LTG	- LIGHTING	SW	- SWITCH
CUH	- CABINET UNIT HEATER	LTS	- LIGHTS	SWBD	- SWITCHBOARD
dB	- DECIBEL	LV	- LOW VOLTAGE	SYS	- SYSTEM
DED	- DEDICATED CIRCUIT	M.MAINT	- MAINTENANCE	TCC	- TEMPERATURE CONTROL CONTRACTOR
DEV	- DEVICE	MAU	- MAKE UP AIR UNIT	TCP	- TEMPERATURE CONTROL PANEL
DIA	- DIAMETER	MAX	- MAXIMUM	TD	- TIME DELAY
DISC	- DISCONNECT	MC	- MECHANICAL CONTACTOR	TEL	- TELEPHONE
DISP	- DISPOSAL	MCA	- MINIMUM CIRCUIT AMPS	TEMP	- TEMPORARY, TEMPERATURE
DISTR	- DISTRIBUTION	MCB	- MAIN CIRCUIT BREAKER	TP	- TAMPERPROOF
DN	- DOWN	MCC	- MOTOR CONTROL CENTER	TS	- TIME SWITCH
DTL	- DETAIL	MDF	- MAIN DISTRIBUTION FRAME	TSTAT	- THERMOSTAT
DWG	- DRAWING	MDP	- MAIN DISTRIBUTION PANEL	TV	- TELEVISION
EC	- ELECTRICAL CONTRACTOR	MIC	- MICROWAVE	TVSS	- TRANSIENT VOLTAGE SURGE SUPPRESSOR
EF	- EXHAUST FAN	MRF	- MANUFACTURER	TYP	- TYPICAL
EL	- ELECTRICAL, ELECTRIC	MFS	- MAXIMUM FUSE SIZE	UG	- UNDERGROUND
ELEV	- ELEVATOR OR ELEVATION	MH	- METAL HALIDE, MOUNTING HEIGHT, MANHOLE	UH	- UNIT HEATER
EM	- EMERGENCY	MIN	- MINIMUM	UNO	- UNLESS NOTED OTHERWISE
EQ	- EQUAL EQUIPMENT	MLO	- MAIN LUGS ONLY	UNV	- UNIVERSAL
ERU	- ENERGY RECOVERY UNIT	MOP	- MAXIMUM OVERCURRENT PROTECTION	UTIL	- UTILITY
EUH	- ELECTRIC UNIT HEATER	MSB	- MAIN SWITCHBOARD	UTP	- UNSHIELDED TWISTED PAIR
EW	- ELECTRIC WATER COOLER	MATL	- MATERIAL	V	- VOLT
EW	- ELECTRIC WATER HEATER	MTR	- MOTOR OR METER	VA	- VOLT-AMPS
EX	- EXITING	N	- NEUTRAL	VAV	- VAV BOX
EXH	- EXHAUST	NA	- NOT APPLICABLE	VERT	- VERTIC
EXPL	- EXPLOSION PROOF	NC	- NORMALLY CLOSED	VFD	- VARIABLE FREQUENCY DRIVE
F	- FUSE OR FRONT	NEC	- NATIONAL ELECTRICAL CODE	WG	- WIRE GUARD
*F	- DEGREES FARENHEIT	NF	- NON FUSED	WC	- WATER CLOSET
FD	- FIRE DAMPER	NIC	- NOT IN CONTRACT	WH	- WATER HEATER
FIXT	- FIXTURE, LUMINAIRE	NL	- NIGHT LIGHT	WP	- WEATHER PROOF, NEMA 3R IF ENCLOSED
FLA	- FULL LOAD AMPERES	N.O.	- NORMALLY OPEN	W/	- WITH
FL	- FLOOR	NORM	- NORMAL(LY)	W/O	- WITHOUT
				XFMR	- TRANSFORMER

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THIS PROJECT

POWER

RECEPTACLES

	DUPLEX RECEPTACLE - 20A, 125V
	ISOLATED GROUND
	SINGLE RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE-20A, 125V
	HALF-SWITCHED RECEPTACLE-20A, 120V
	SPECIAL RECEPTACLE
	BOX SURROUNDING DEVICE DEPICTS FLOOR MOUNTED
	EMERGENCY DUPLEX - 20A, 120V
	EMERGENCY DOUBLE DUPLEX -20A, 120V
	DEAD FRONT GFCI DEVICE
SUB= SUBSCRIPT AS FOLLOWS:	
AC-ABOVE COUNTER	
CLG-CEILING OUTLET	
EM-EMERGENCY	
EWC-ELECTRIC WATER COOLER	
F-FLOOR	
G-GROUND FAULT INTERRUPTER	
H-HORIZONTALLY MOUNTED	
P-PLUG MOLD	
S-SURFACE MOUNTED	
SS-SURGE SUPPRESSION RECEPTACLE	
TP-TAMPER PROOF	
U-RECEPTACLE WITH USB TYP A & C CONNECTOR	
W-WELDING RECEPTACLE	
WP-WEATHERPROOF	
XP-EXPLOSION PROOF	
10-NUMBER INDICATES CIRCUIT NUMBER	
-WALL MOUNTED HEIGHTS UNLESS NOTED OTHERWISE	

JUNCTION BOXES

	JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	LARGE JUNCTION BOX
	HAND DRYER

MOTORS & HVAC EQUIPMENT & CONTROLS

	MOTOR-# INDICATES MOTOR NUMBER
SMALL MOTOR-XX LETTERS INDICATE SERVICE SUB AS FOLLOWS:	
EF-BATHROOM EXHAUST FAN	
GD-GARBAGE DISPOSAL	
HD-HAND DRYER	
	MANUAL MOTOR STARTER
	MANUAL MOTOR DISCONNECT W/THERMAL PROTECTION
	MAGNETIC MOTOR STARTER
	STARTER/DISCONNECT COMBINATION UNIT
	DISCONNECT SWITCH
	TEMPERATURE CONTROL PANEL
	THERMOSTAT
	RELAY
	MAGNETIC CONTACTOR
	EMERGENCY SHUNT TRIP

PANELS/EQUIPMENT

	MAIN DISTRIBUTION PANEL
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	DRY TRANSFORMER
	MOTOR CONTROL CENTER
	METER
	ELECTRIC HEATER/REHEATER
	BACK BOX FOR FUTURE WIRING DEVICE

RACEWAY

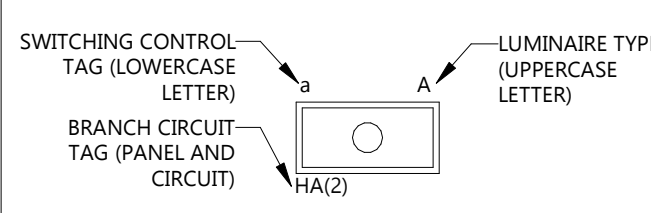
	HOMERUN-TEXT DESIGNATES PANEL AND CIRCUIT BREAKER NUMBER. HASH MARKS INDICATE NUMBER OF #12 AWG CONDUCTORS IN A 3/4" CONDUIT. NO HASH MARKS INDICATE 2 #12 AWG IN A 3/4" CONDUIT UNLESS NOTED OTHERWISE. PROVIDE A CODE SIZED GROUND IN EACH CONDUIT.
	SURFACE RACEWAY - RECEPTACLES
	SURFACE RACEWAY - DATA/TELEPHONE
	CONDUIT STUB
	CONDUIT UP
	CONDUIT DOWN
	EXPLOSION PROOF SEAL OFF
	FLEX CONDUIT
	CONDUIT/BRANCH CIRCUIT
	CABLE TRAY

ELECTRICAL MOUNTING HEIGHT NOTES:

- HEIGHTS SHOWN ARE TYPICAL TO BOTTOM OF DEVICE UNLESS NOTED OTHERWISE.
- MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER ALL ELEVATIONS SHOWN OR INDICATED ON ELECTRICAL DRAWINGS.
- INSTALL FIRE ALARM NOTIFICATION APPLIANCES AT 80" AFF, OTHERWISE INSTALL AT 6" BELOW CEILING, WHICH EVER IS LOWER.
- VERIFY EXIT LIGHT HEIGHTS WITH ARCHITECT.
- TYPICAL HEIGHTS SHOWN, HEIGHTS ON PLANS SHALL GOVERN OVER THESE. DEVICES WITH KNOW OBSTRUCTIONS SUCH AS, BUT NOT LIMITED TO COUNTERTOPS & SHELVING MAY REQUIRE A LOWER HEIGHT. VERIFY WITH ARCHITECT/ENGINEER.
- SYMBOLS NOT SHOWN SHALL BE VERIFIED WITH ARCHITECT/ENGINEER.

LIGHTING

LUMINAIRE IDENTIFICATION LEGEND



INTERIOR LIGHTING

ALL LIGHTING FIXTURES ARE IDENTIFIED BY A LETTER(S) COORDINATE WITH LUMINAIRE SCHEDULE AS TO THE FIXTURES: IDENTIFICATION, MANUFACTURER, CATALOG NUMBERS, LAMPS, MOUNTING, LOCATION AND COMMENTS.

	RECESSED TROFFER
	RECESSED TROFFER EMERGENCY
	SURFACE MOUNTED LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXT EMERGENCY
	RECESSED LED STRIP LIGHT
	RECESSED LED STRIP LIGHT EMERGENCY
	PENDANT MOUNTED
	PENDANT MOUNTED EMERGENCY
	HIGHBAY
	UNDER CABINET
	WALL MOUNTED FIXTURE
	STRIP LIGHT OR INDUSTRIAL FIXTURE
	RECESSED DOWN LIGHT EMERGENCY
	RECESSED DOWN LIGHT
	RECESSED DOWN LIGHT WALL WASH
	WALL MOUNTED FIXTURE
	WALL MOUNTED FIXTURE EMERGENCY
	RECESSED WALL
	SURFACE MOUNTED LIGHT EMERGENCY
	SURFACE MOUNTED LIGHT FIXTURE
	PENDANT MOUNT FIXTURE

EXIT - EMERGENCY

	WALL MOUNTED EXIT LIGHT
	CEILING MOUNTED EXIT LIGHT
	SURFACE MOUNTED EMERGENCY LIGHT
	RECESSED EMERGENCY LIGHT
	REMOTE HEAD FOR EMERGENCY FIXTURE
	COMBINATION EXIT/EMERGENCY

SPECIAL LIGHTING

	TRACK LIGHTING
	COMBINATION FAN/LIGHT

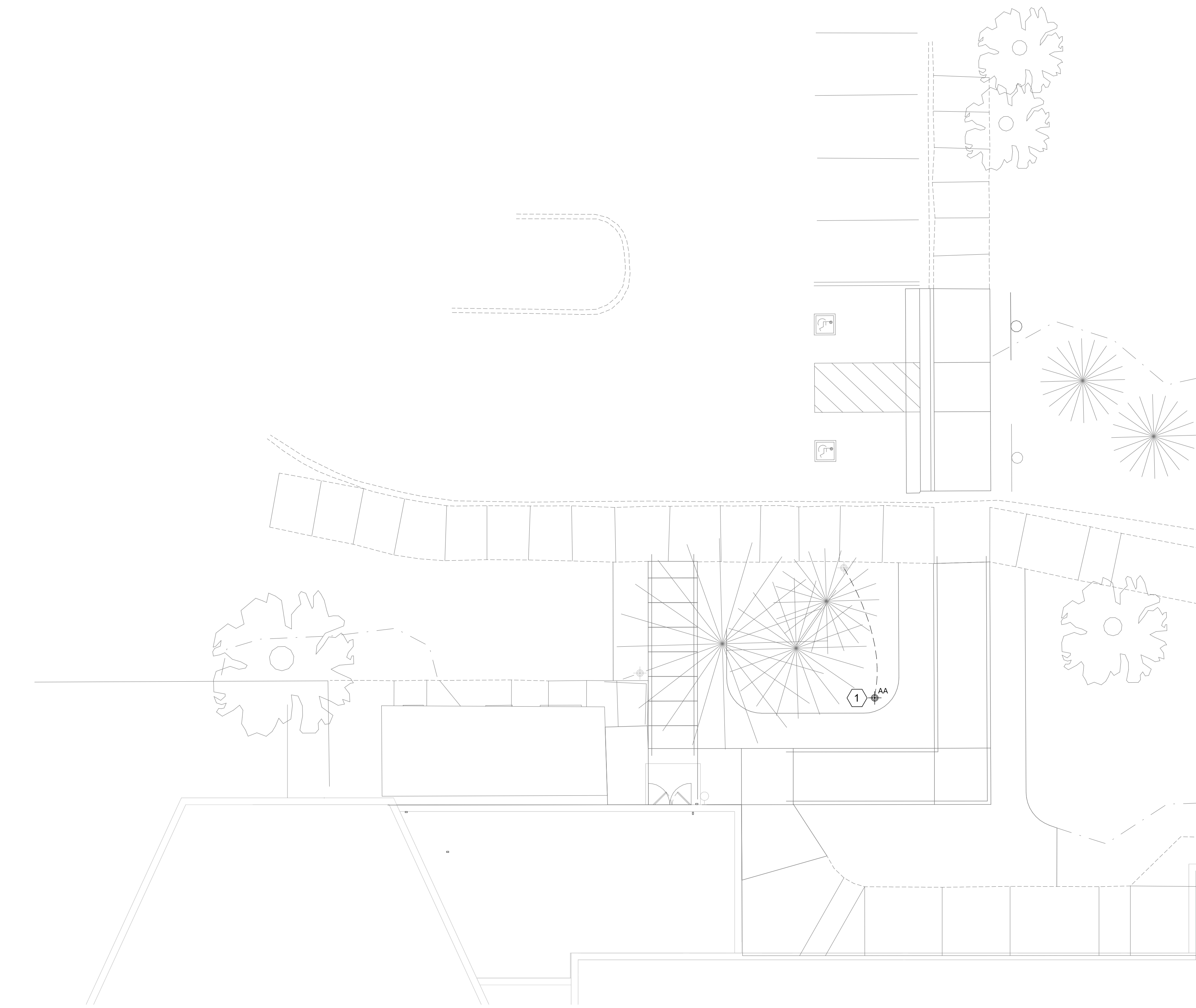
EXTERIOR/SITE

	POLE WITH LIGHT FIXTURE(S) FIXTURE SHOWN DEFINE QUANTITY AND ORIENTATION.
	POST TOP FIXTURE
	BOLLARD
	SPOT LIGHT
	FLOOD LIGHT

LIGHTING CONTROL

	SINGLE POLE SWITCH, 120V, 20A SUB= SUBSCRIPT AS FOLLOWS:
NONE-SINGLE-POLE, 120V, 20A	
2-TWO-POLE, 120V, 20A	
3-THREE-WAY, 120V	

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KEYNOTE LEGEND:	
	< < < INDICATES KEYNOTE ON PLAN
1. CONNECT LIGHT FIXTURE TO EXISTING EXTERIOR LIGHTING CIRCUIT.	



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DRAWING TITLE
ELECTRICAL SITE PLAN

E100



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ELECTRICAL
DEMOLITION PLAN

E101

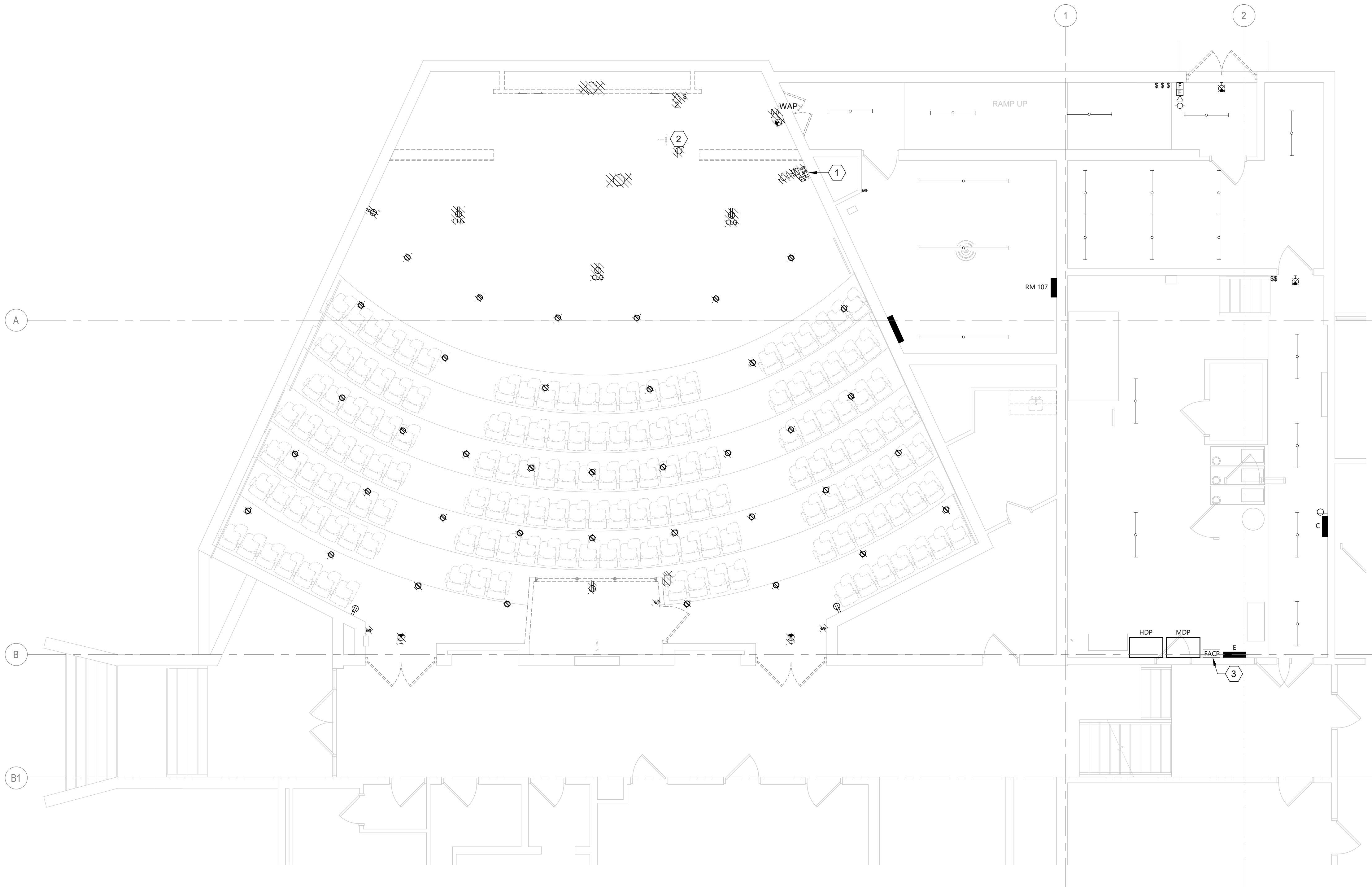
GENERAL DEMO NOTES

- A. INDICATES ITEM TO BE REMOVED. DEMOLITION SHOWN ON THE DRAWING SHALL BE INTENDED ONLY AS A GUIDE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT & FAMILIARIZE THEMSELVES WITH THE SITE PRIOR TO BIDDING THEREIN TO DETERMINE THE AMOUNT OF WORK OF DEMOLITION REQUIRED. NO EXTRA COMPENSATION TO BE ALLOWED DUE TO MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED DUE TO OF THEIR LACK OF KNOWLEDGE OF ANY EXISTING CONDITIONS.
- B. RECONNECT ANY LIGHTING OR POWER CIRCUIT INADVERTENTLY DISCONNECTED BY DEMOLITION.
- C. EXISTING SECURITY SYSTEM SHALL REMAIN IN PLACE. MAINTAIN ALL EXISTING DEVICES AND CIRCUITRY.
- D. LABEL ALL JUNCTION BOXES ABOVE ACCESSIBLE CEILING WITH INDELIBLE INK TO INDICATE PANEL AND CIRCUIT.
- E. AFTER DEMOLITION, EC SHALL DETERMINE THE NUMBER OF CIRCUITS AVAILABLE AND CONSULT WITH ENGINEER TO REVISE CIRCUITRY AS REQUIRED.
- F. DEVICES SHOWN ARE THOSE THAT WERE VISIBLE UPON VISIT. SOME VIEWS MAY HAVE BEEN OBSTRUCTED. ALL DEVICES ON WALLS THAT ARE TO BE DEMOED SHALL ALSO BE REMOVED, EVEN IF NOT SHOWN ON PLANS.

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

- SWITCHES CONTROL CEILING OUTLETS.
- RECEPTACLE INSTALLED IN CASEWORK.
- EXISTING SIMPLEX 4020 FIRE ALARM PANEL.

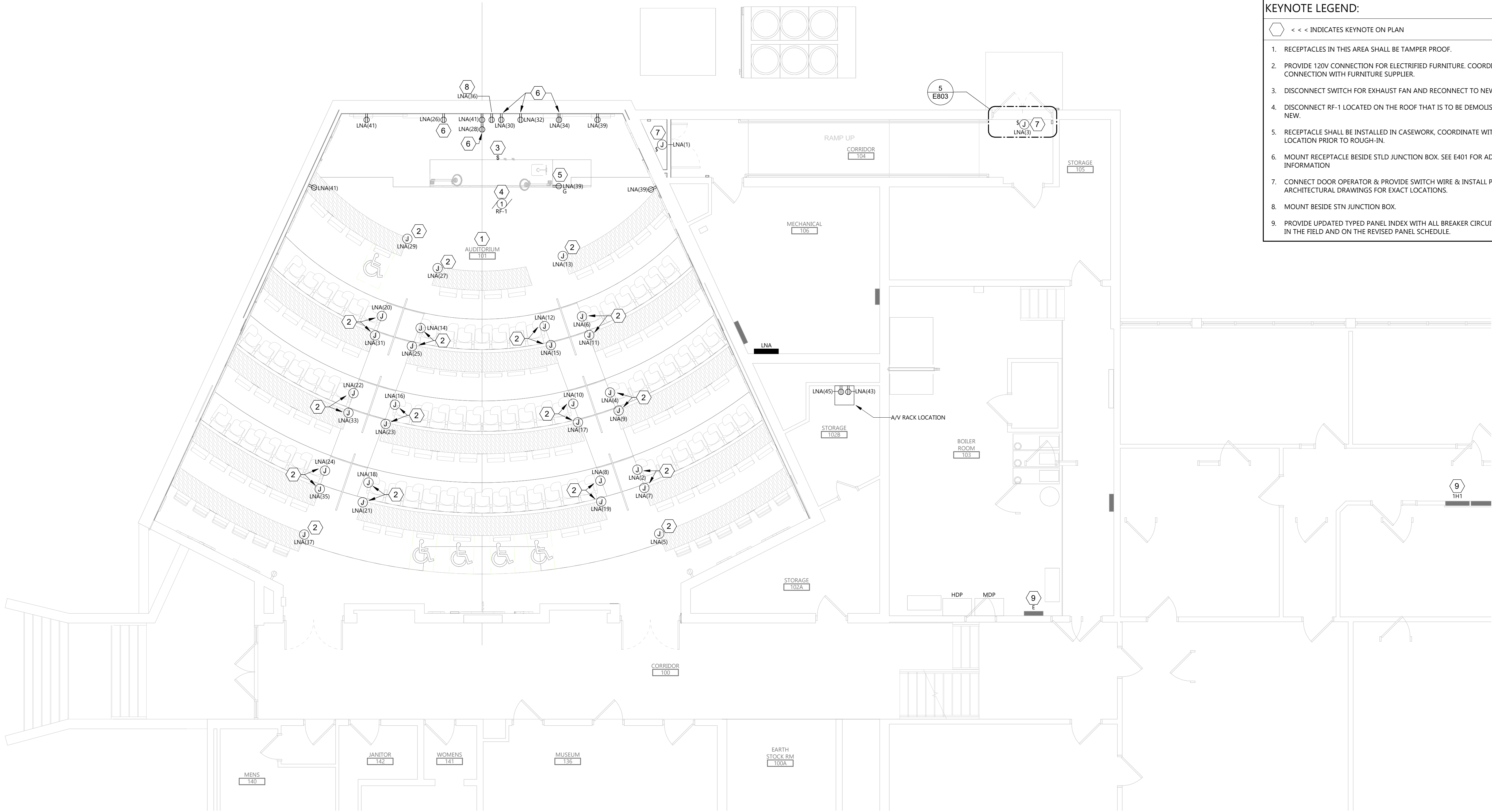


1 FIRST FLOOR DEMOLITION PLAN
E101 3/16" = 1'-0"

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1
E201

FIRST FLOOR POWER PLAN
3/16" = 1'-0"



GENERAL NOTES

- LABEL ALL JUNCTION BOXES ABOVE ACCESSIBLE CEILING WITH INDELIBLE INK TO INDICATE PANEL AND CIRCUIT.
- LABEL ALL HOMERUNS WITH INDELIBLE INK TO INDICATE PANEL AND CIRCUIT.
- PROVIDE APPROVED FIRE PROOFING MATERIALS / METHODS FOR CABLE PASSING THROUGH FIRE WALLS AND FLOORS.
- LABEL ALL DEVICES, INCLUDING SWITCHES, TO INDICATE PANEL AND CIRCUIT. USE ADHESIVE MYLAR TAPE.
- PROVIDE #10 CONDUCTORS THROUGHOUT ALL 120V, 20A BRANCH CIRCUIT OF 100'-0" OR GREATER IN LENGTH.
- PROVIDE ALL DEVICES AND ASSOCIATED WIRING AS SHOWN.
- ALL CONDUIT, WIRE, AND BOXES SHALL BE CONCEALED UNLESS NOTED OTHERWISE.
- GFCI RECEPTACLES SHALL ONLY PROTECT THE INDIVIDUAL DEVICE.
- MULTI-BRANCH CIRCUITING SHALL NOT BE ALLOWED UNLESS NOTED OTHERWISE. PROVIDE A SEPARATE NEUTRAL FOR EACH CIRCUIT.
- SEE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND LOCATIONS.
- EC SHALL PROVIDE JUNCTION BOXES & CONDUIT AS REQUIRED BY A/V SYSTEMS. JUNCTION BOX TAGS ARE REFERENCES TO THOSE USED ON A/V DRAWINGS. SEE A/V DRAWINGS FOR EXACT BOX SIZE, LOCATION, CONDUIT SIZES, AND DESTINATION. SEE A/V CONDUIT SCHEDULE ON SHEET E401. ALL CABLES SHALL BE FURNISHED, INSTALLED, AND TERMINATED BY A/V SUBCONTRACTOR.

KEYNOTE LEGEND:

- ◡ < < INDICATES KEYNOTE ON PLAN
- RECEPTACLES IN THIS AREA SHALL BE TAMPER PROOF.
 - PROVIDE 120V CONNECTION FOR ELECTRIFIED FURNITURE. COORDINATE FINAL CONNECTION WITH FURNITURE SUPPLIER.
 - DISCONNECT SWITCH FOR EXHAUST FAN AND RECONNECT TO NEW SWITCH.
 - DISCONNECT RF-1 LOCATED ON THE ROOF THAT IS TO BE DEMOLISHED AND RECONNECT NEW.
 - RECEPTACLE SHALL BE INSTALLED IN CASEWORK, COORDINATE WITH GC ON FINAL LOCATION PRIOR TO ROUGH-IN.
 - MOUNT RECEPTACLE BESIDE STLD JUNCTION BOX. SEE E401 FOR ADDITIONAL INFORMATION
 - CONNECT DOOR OPERATOR & PROVIDE SWITCH WIRE & INSTALL PUSH PLATES. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
 - MOUNT BESIDE STN JUNCTION BOX.
 - PROVIDE UPDATED TYPED PANEL INDEX WITH ALL BREAKER CIRCUIT CHANGES AS NOTED IN THE FIELD AND ON THE REVISED PANEL SCHEDULE.



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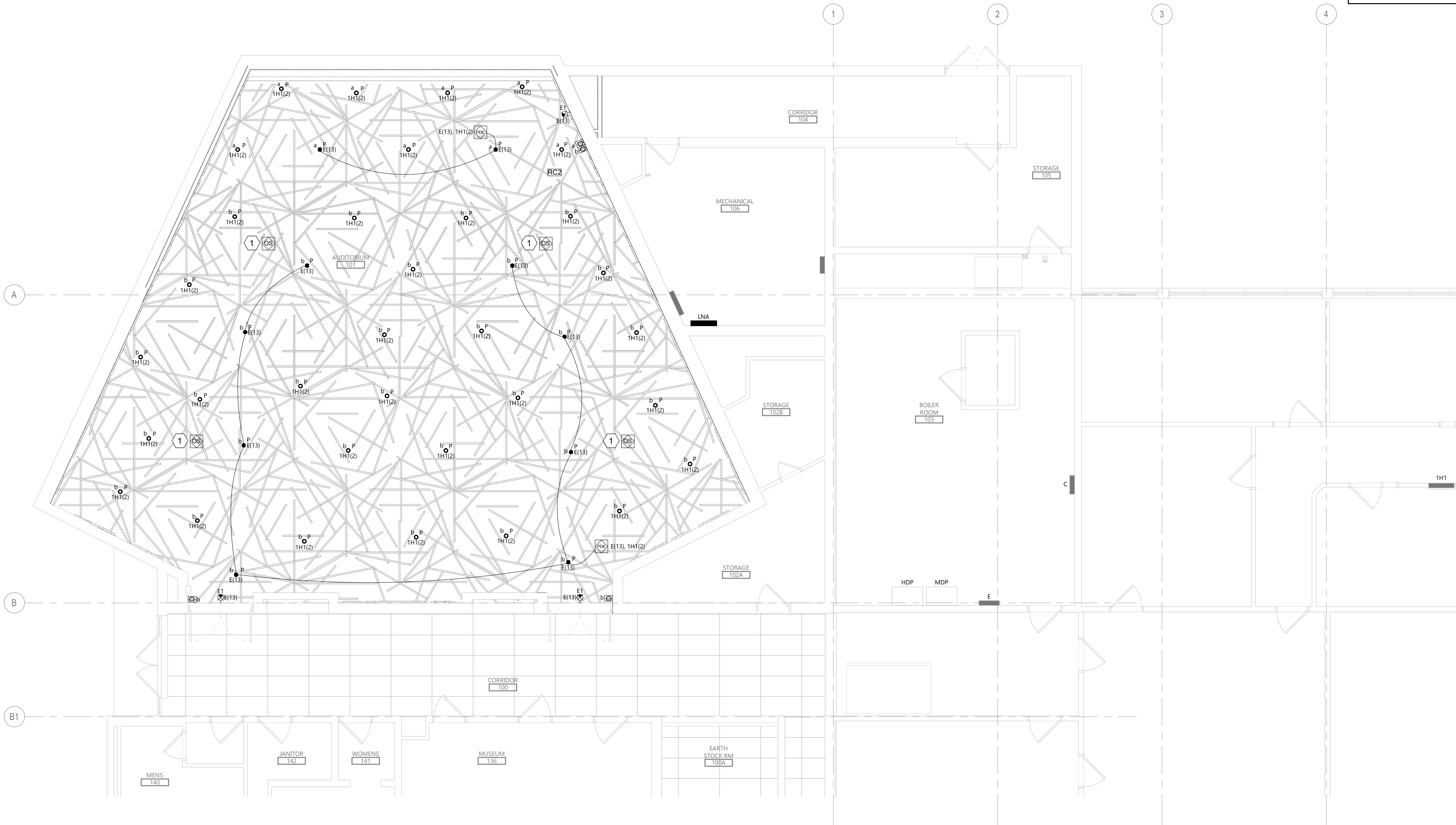
DRAWING TITLE
ELECTRICAL POWER
PLAN

E201

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1
E301

FIRST FLOOR LIGHTING PLAN
3/16" = 1'-0"



GENERAL NOTES

- LABEL ALL JUNCTION BOXES ABOVE ACCESSIBLE CEILING WITH INDELIBLE INK TO INDICATE PANEL AND CIRCUIT.
- LABEL ALL HOME RUNS WITH INDELIBLE INK TO INDICATE PANEL AND CIRCUIT.
- PROVIDE APPROVED FIRE PROOFING MATERIALS / METHODS FOR CABLE PASSING THROUGH FIRE WALLS AND FLOORS.
- LABEL ALL DEVICES INCLUDING SWITCHES, TO INDICATE PANEL AND CIRCUIT. USE ADHESIVE MYLAR TYPE.
- AFTER DEMOLITION, EC SHALL DETERMINE THE NUMBER OF CIRCUIT AVAILABLE AND CONSULT WITH ENGINEER TO REVISE CIRCUITRY AS REQUIRED.
- PROVIDE #10 CONDUCTORS THROUGHOUT ALL 120V, 20A BRANCH CIRCUIT OF 100'-0" OR GREATER IN LENGTH.
- PROVIDE ALL DEVICES AND ASSOCIATED WIRING AS SHOWN.
- EMERGENCY POWER CIRCUITS SHALL BE RUN IN A SEPARATE CONDUIT FROM NORMAL POWER CIRCUITS. EMERGENCY POWER CIRCUITS SHALL NOT SHARE CONDUIT WITH NORMAL POWER CIRCUITS.
- MC CABLE SHALL BE USED IN WALLS FOR SINGLE CIRCUIT RUNS AND SWITCH LEGS. SWITCH LEGS SHALL CONTAIN ONE EXTRA CONDUCTOR. MC CABLE MAY NOT BE USED ABOVE CEILING IN ANY INSTANCE, AND MAY NOT BE USED IN WALLS OF ROOMS THAT DO NOT HAVE ACCESSIBLE CEILING. DO NOT USE THROUGH SMOKE / FIRE WALLS.
- SUSPEND FIXTURES FROM STRUCTURE. DO NOT ATTACH TO ROOF DECKING.

KEYNOTE LEGEND:

<<< INDICATES KEYNOTE ON PLAN

- OCCUPANCY SENSOR SHALL BE WALL MOUNTED AT CEILING HEIGHT FOR COVERAGE OF THE SPACE. PROVIDE ADDITIONAL OCCUPANCY SENSORS AS NEEDED FOR COVERAGE OF THE SPACE.



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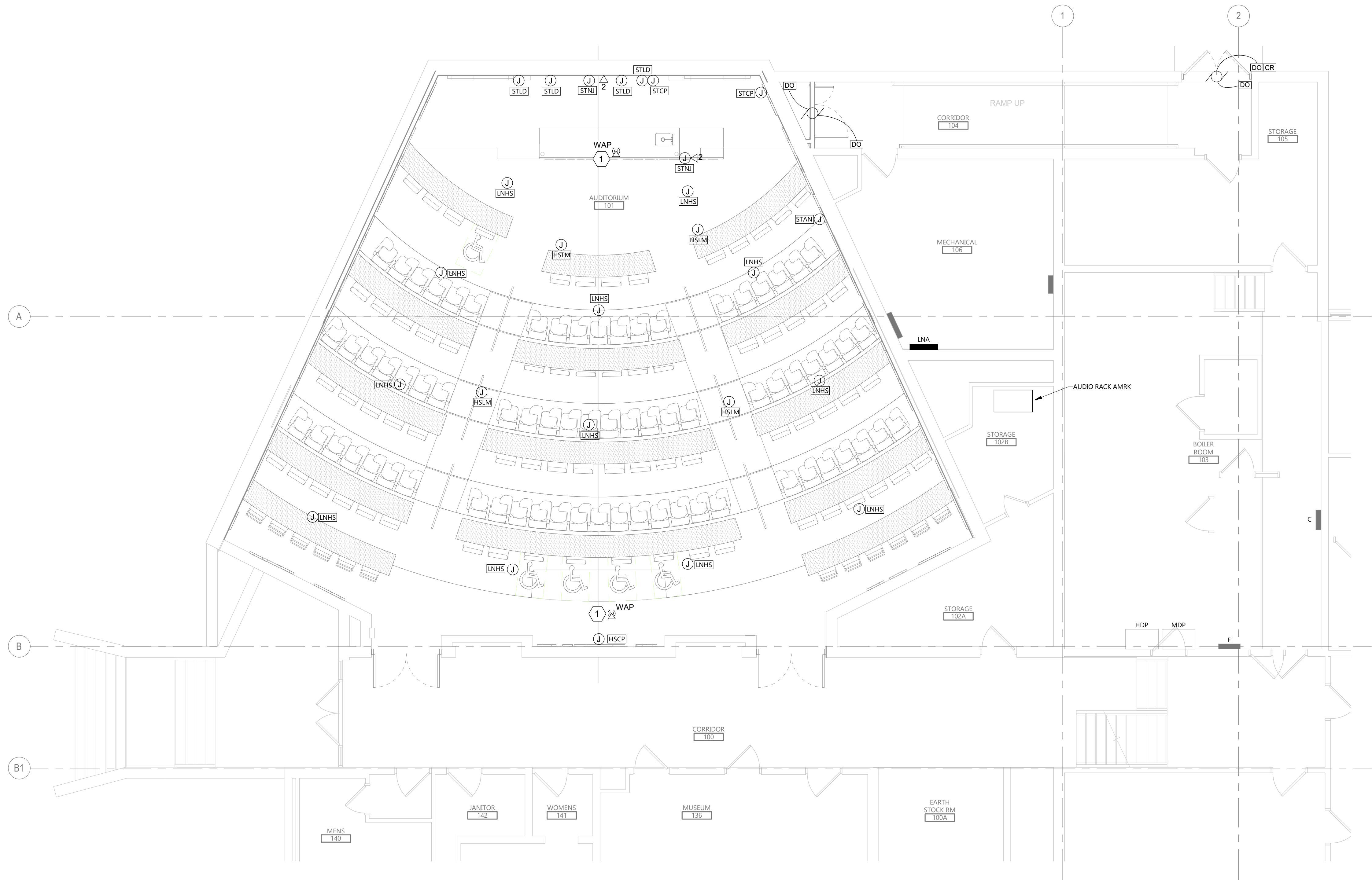
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DRAWING TITLE
ELECTRICAL LIGHTING
PLAN

E301

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1 FIRST FLOOR SYSTEMS PLAN
E401 3/16" = 1'-0"

A/V BOX SCHEDULE	
BOX	DESCRIPTION
LNHS	SEE A/V DRAWING AV031 FOR ADDITIONAL INFORMATION.
HSLM	SEE A/V DRAWING AV031 FOR ADDITIONAL INFORMATION.
STLD	SEE A/V DRAWING AV031 FOR ADDITIONAL INFORMATION.
HSCP	SEE A/V DRAWING AV031 FOR ADDITIONAL INFORMATION.
STAN	SEE A/V DRAWING AV031 FOR ADDITIONAL INFORMATION.
STCP	SEE A/V DRAWING AV031 FOR ADDITIONAL INFORMATION.
STNJ	SEE A/V DRAWING AV031 FOR ADDITIONAL INFORMATION.
STJP	SEE A/V DRAWING AV031 FOR ADDITIONAL INFORMATION.
NOTES:	
1.	

- GENERAL NOTES**
- PROVIDE APPROVED FIRE PROOFING MATERIALS / METHODS FOR CABLE PASSING THROUGH FIRE WALLS AND FLOORS.
 - DATA CABLE SHALL BE CAT6 PLENUM RATED UNLESS NOTED OTHERWISE. CABLE COLOR SHALL BE BLUE UNLESS NOTED OTHERWISE OR COLOR AS REQUIRED BY OWNER STANDARDS.
 - SEE FLOOR BOX SCHEDULES FOR ALL DEVICE INSTALLATION REQUIREMENTS.
 - ALL DATA AND PAGING SYSTEMS CABLING SHALL TERMINATE IN RACK LOCATED IN ROOM I.T. 217. SEE E202.
 - PROVIDE 4" HILT-PASS THRU FOR CABLE PASSING THROUGH FIRE WALLS AND FLOORS. SEE FIRE PROTECTION PLANS FOR LOCATION OF RATED WALLS. PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, FLOORS OR CEILING SHALL BE FIRE STOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE-RESISTANCE RATING.
 - EC SHALL PROVIDE JUNCTION BOXES & CONDUIT AS REQUIRED BY A/V SYSTEMS. JUNCTION BOXES TAGS ARE REFERENCED TO THOSE USED ON AV DRAWINGS. SEE A/V DRAWINGS FOR EXACT BOX SIZE, LOCATION, CONDUIT SIZES, & DESTINATIONS. SEE A/V CONDUIT SCHEDULE ON THIS DRAWING. ALL CABLES SHALL BE FURNISHED, INSTALLED, & TERMINATED BY A/V SUBCONTRACTOR.

- KEYNOTE LEGEND:**
- ◡ < < < INDICATES KEYNOTE ON PLAN
- CONFIRM LOCATION OF WIRELESS ACCESS POINT WITH OWNER.



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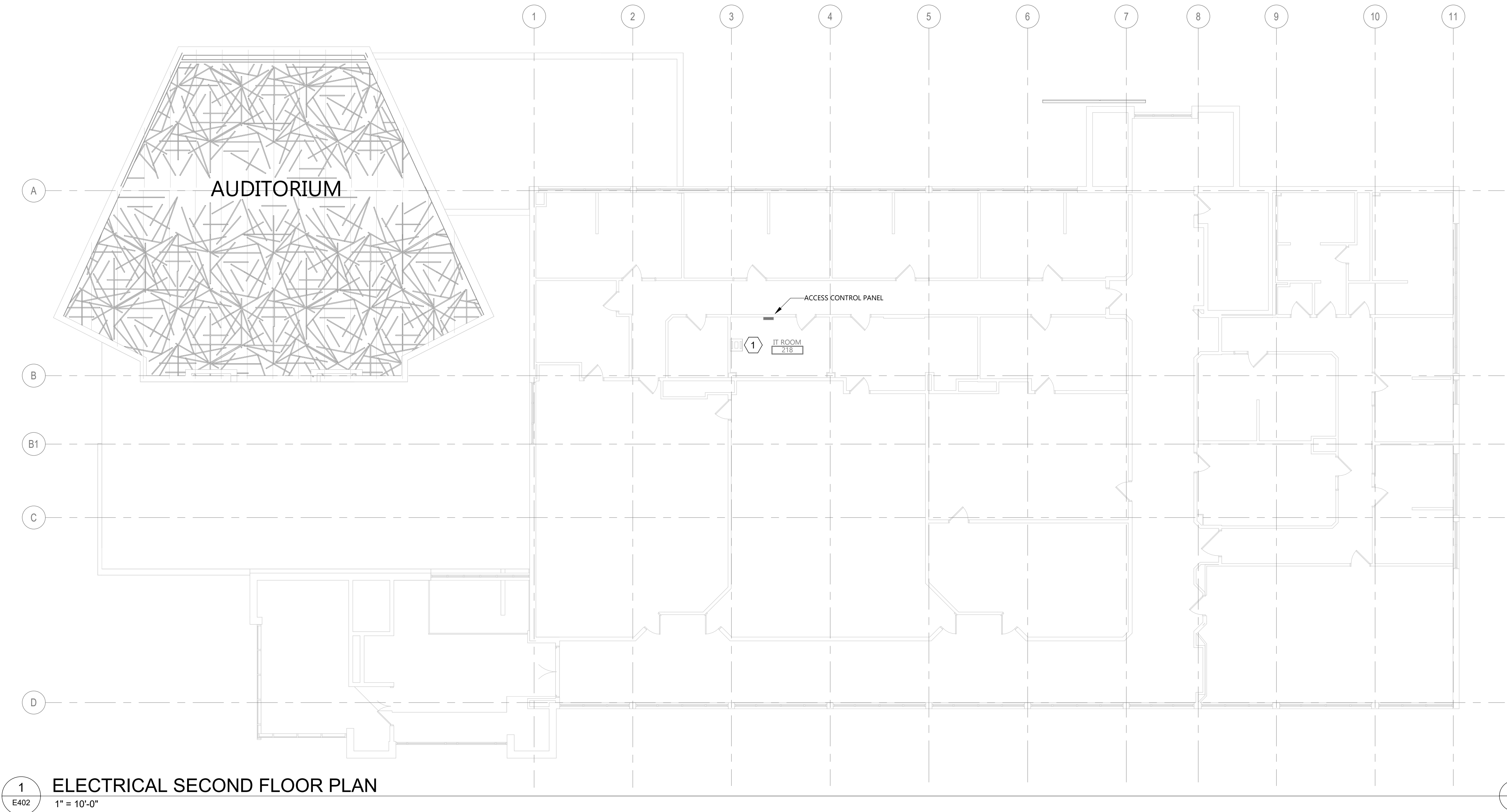
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DRAWING TITLE
ELECTRICAL SYSTEMS
PLANS

E401

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1
E402

ELECTRICAL SECOND FLOOR PLAN
1" = 10'-0"

GENERAL NOTES

- A. PROVIDE APPROVED FIRE PROOFING MATERIALS / METHODS FOR CABLE PASSING THROUGH FIRE WALLS AND FLOORS.
- B. ALL CONDUIT, WIRE, AND BOXES SHALL BE CONCEALED UNLESS NOTED OTHERWISE.

KEYNOTE LEGEND:

◡ < ◡ < INDICATES KEYNOTE ON PLAN

1. ADD 24 PORT CAT6 PATCH PANEL TO EXISTING DATA RACK.



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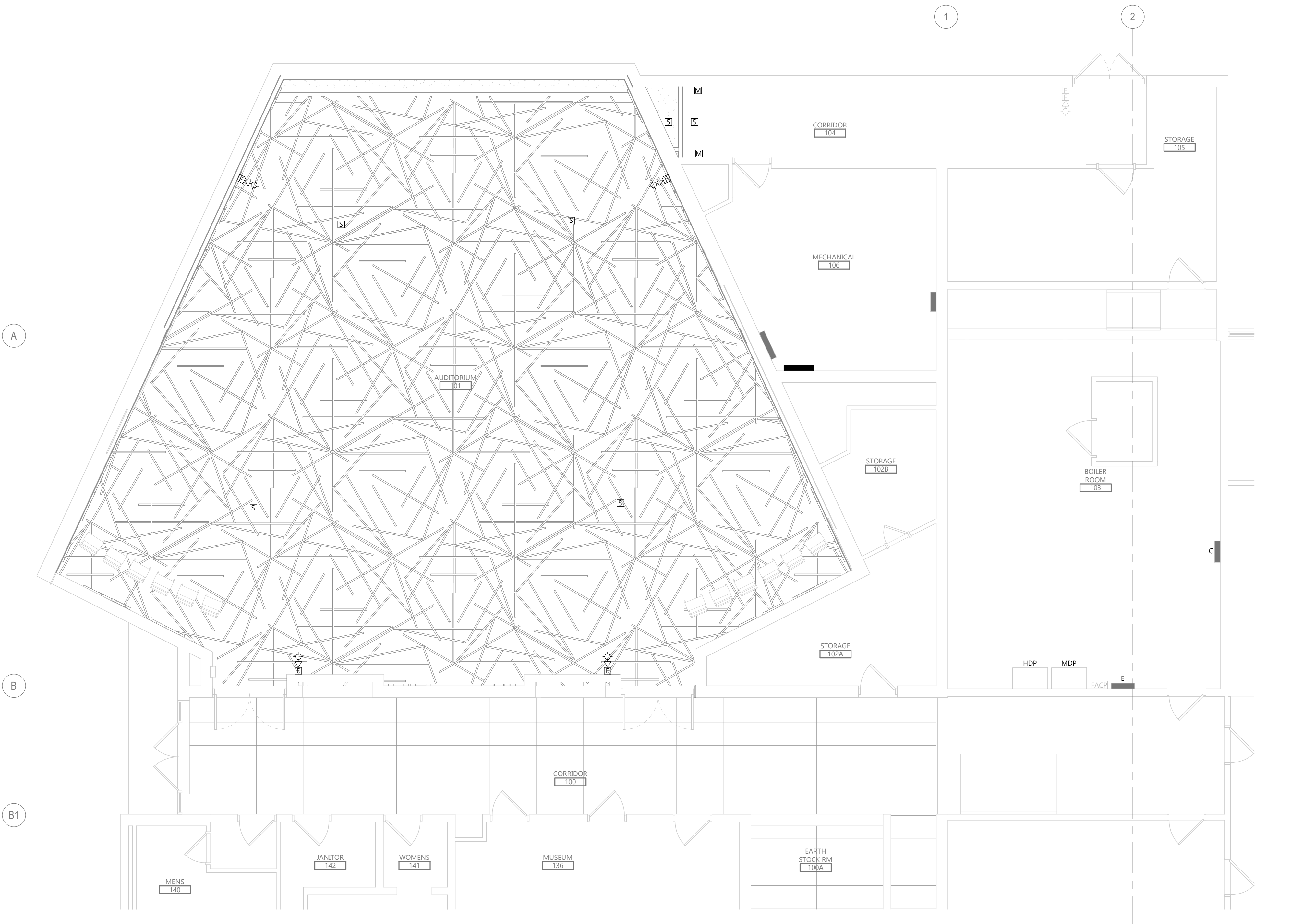
ELECTRICAL SECOND
FLOOR SYSTEMS PLAN

E402

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1
E501

FIRST FLOOR FIRE ALARM PLAN
3/16" = 1'-0"



GENERAL NOTES

- A. SEAL ALL NEW ELECTRICAL PENETRATIONS THROUGH RATED WALL AND CEILING WITH FIRE CAULKING TO MAINTAIN RATING.
- B. EXISTING FIRE ALARM PANEL: SIMPLEX 4020.



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DRAWING TITLE

ELECTRICAL FIRE
ALARM PLAN

E501



MOTOR AND EQUIPMENT SCHEDULE																						
LEGEND:	CM - COMBINATION CB - CIRCUIT BREAKER EC - ELECTRICAL CONTRACTOR EX - EXISTING F - FUSED			M2 - MAGNETIC TWO SPEED M - MAGNETIC MC - MECHANICAL CONTRACTOR MM - MANUAL NA - NOT APPLICABLE			NF - NON FUSED OW - OWNER TC - TEMPERATURE CONTRACTOR RF - ROOF RM - ROOM			RPB - REMOTE PUSHBUTTON SC - SELF CONTAINED VC - VENTILATION CONTRACTOR RF - ROOF WP - WEATHERPROOFED												
DESCRIPTION	MOTOR #	FURN BY	LOCATION ROOM #	HP	KW	MCA	FLA	MOP	VOLTAGE	PH (Ø)	STARTER			CONTROL		POWER WIRING	INTERLOCKS		DISCONNECT			NOTES
RF-1	1	MC	ROOF	1					120 V	1	TYPE	SIZE	BY	BY	WIRING	EC	BY	TO	BY	SIZE/TYPE	NEMA	NOTES
NOTES: 1. NOTE																						

FEEDER SCHEDULE COPPER		
AMPACITY	FEEDER TAG	CONDUIT & THHN WIRE 75°C
20	22	3/4" C - 2 #12 & 1 #12 GND
200	204	2 1/2" C - 4 #3/0 & 1 #6 GND
225	224	2 1/2" C - 4 #4/0 & 1 #4 GND

KEYNOTE LEGEND:	
	< < < INDICATES KEYNOTE ON PLAN
1. CONNECT NEW PANEL TO EXISTING SPARE 225A/3P BREAKER IN CUTLER HAMMER POW-R-LINE C SWITCHBOARD	



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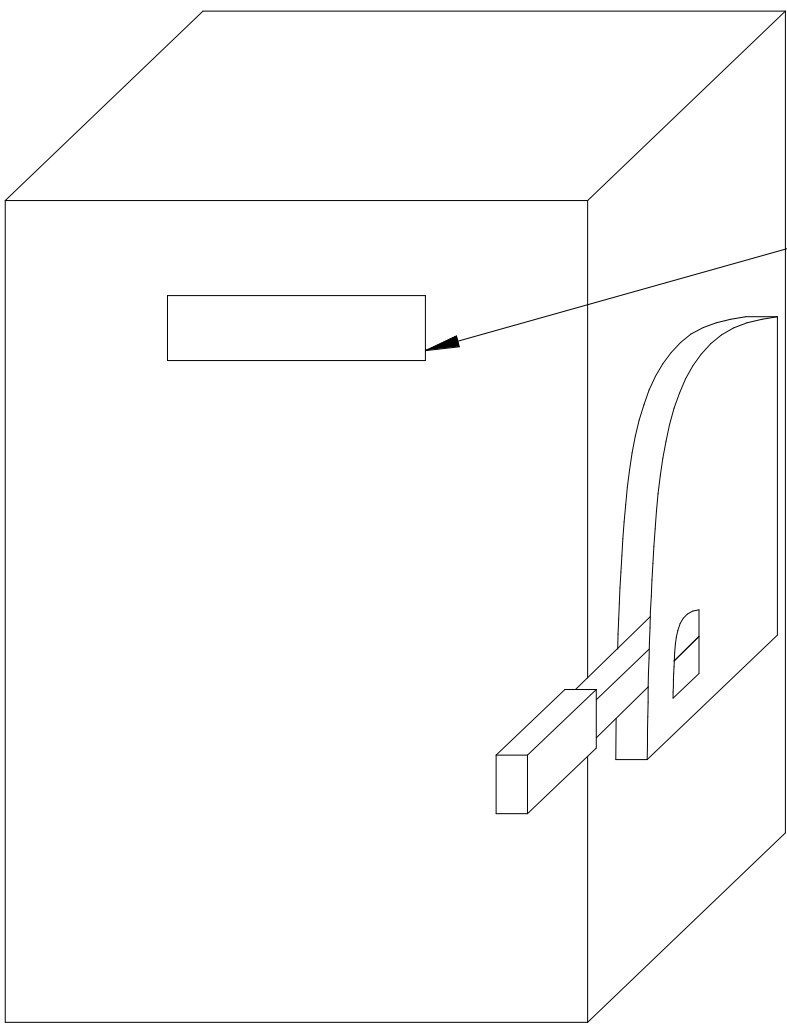
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DRAWING TITLE
ONE-LINE, MOTOR &
EQUIPMENT SCHEDULE
& RISER

E801

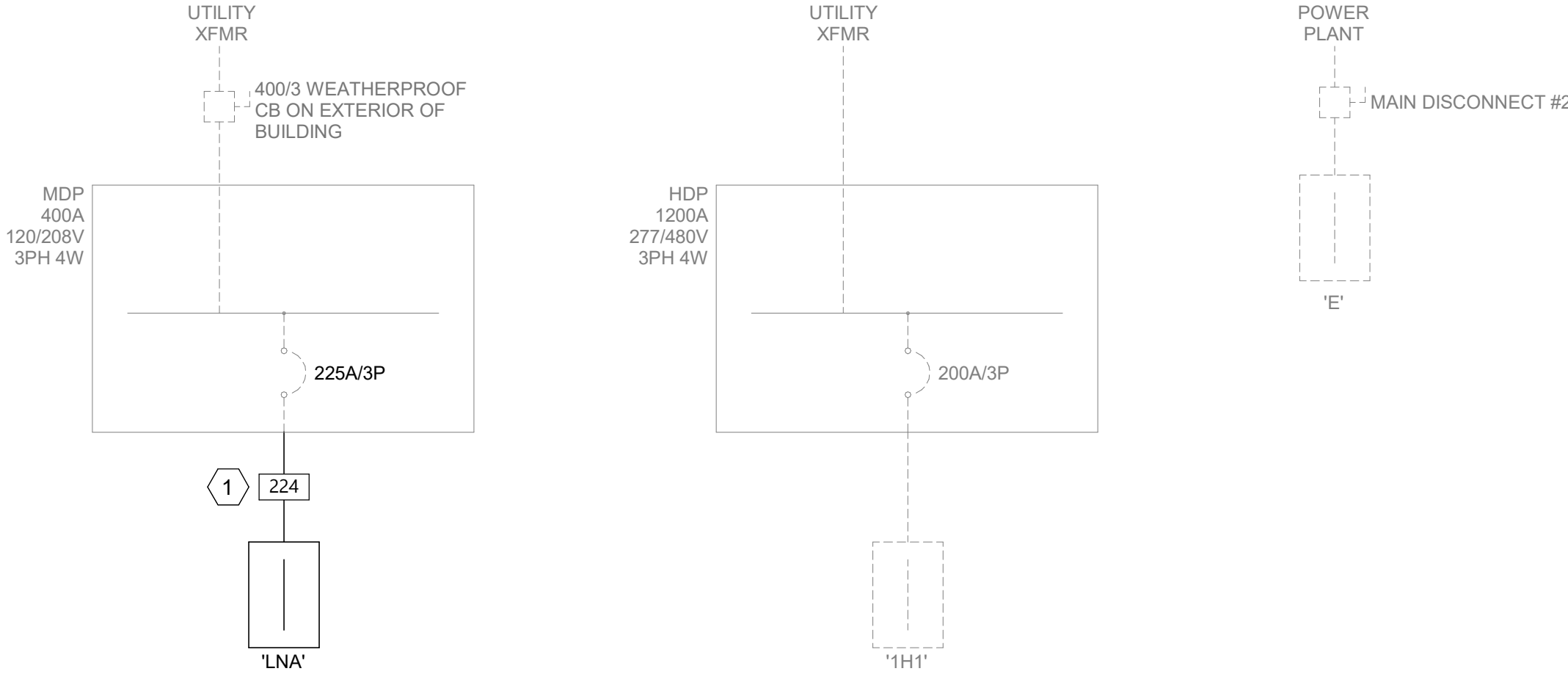


GENERAL NOTE:
1. THE AVAILABLE FAULT CURRENT CALCULATION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO INSPECT, INSTALL, OR MAINTAIN THE INSTALLATION.

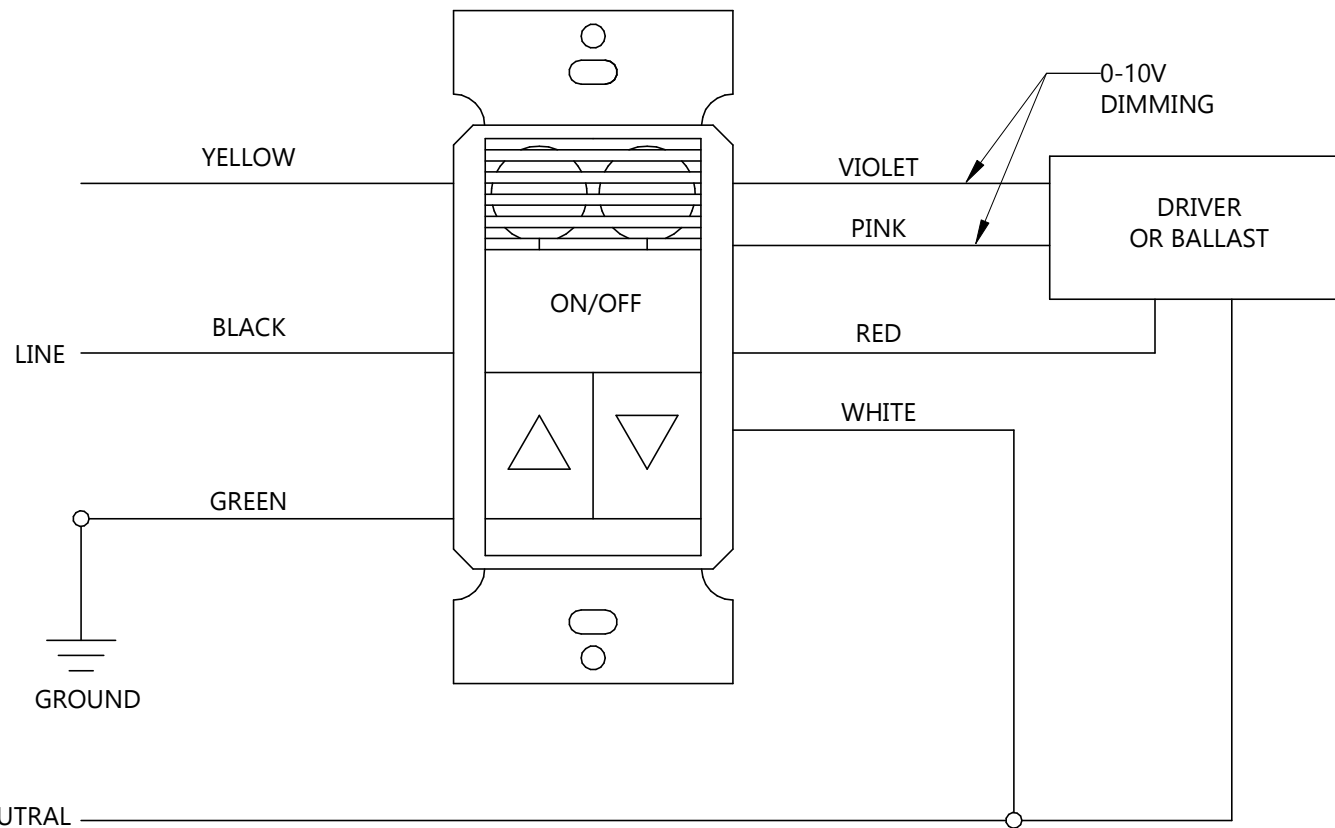
PROVIDE PLASTIC ENGRAVED NAMEPLATE WITH WHITE LETTERING AND BLACK BACKGROUND. EQUIPMENT FED FROM EMERGENCY POWER SHALL HAVE RED BACKGROUND WITH WHITE LETTERING. NAMEPLATE SHALL BE MOUNTED WITH STAINLESS STEEL HARDWARE. LABEL SHALL CONTAIN THE FOLLOWING. PROVIDE LABELS FOR ALL MCC, SWITCHBOARDS, SWITCHGEAR, PANEL BOARDS, TRANSFORMERS, DISCONNECT, VFD'S AND ELECTRICAL ENCLOSURES HOUSING PROTECTIVE BREAKERS.

"EQUIPMENT NAME"
"EQUIPMENT VOLTAGE"
"EQUIPMENT AMPERAGE/POLES"
"EQUIPMENT FED FROM"
"FAULT CURRENT"
"DATE OF CALCULATION"

EXAMPLE
DISCONNECT P-1
480V
100A/3P
FED FROM HP-1
FAULT CURRENT - 6,541 A
DATE OF CALCULATION - 08-14-2027



Revit Version: 2025
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NOTE: REQUIRES CLASS 1 WIRING FOR 0-10V DIMMING

1

E802

DUAL TECH SENSOR SWITCH OD WIRING DETAIL

NOT TO SCALE

LIGHTING CONTROL SCHEDULE												
SYMBOL	MANUFACTURER	CATALOG NAME	MOUNTING			VOLTAGE		TYPE			NOTES	DESCRIPTION
			WALL	CLING	ABV. CLG	LINE	LOW	OCCUPANCY	VACANCY	OTHER		
RC#	NLIGHT	NPP16 D			X	X				X	1	DIGITAL DIMMER ROOM CONTROLLER, # INDICATES NUMBER OF RELAYS (CAT6)
⌀ _{LV}	SENSOR SWITCH	SPODM D	X				X			X	2	0-10V SWITCH, 2 BUTTON OPTION, NUMBER OF POLE OR MULTI-WAY SWITCHING TO BE DETERMINED BY MANUFACTURER.
\$ _{LV}	SENSOR SWITCH	SPODM	X				X			X	2	LOW VOLTAGE SWITCH, 2 BUTTON OPTION, NUMBER OF POLE OR MULTI-WAY SWITCHING TO BE DETERMINED BY MANUFACTURER.
◇ _{OS}	SENSOR SWITCH	CM PDT 9/10 R D		X			X	X			5	CEILING MOUNTED SENSOR, DUAL TECHNOLOGY, SMALL OR LARGE MOTION TO BE DETERMINED BY MANUFACTURER, LOW VOLTAGE RELAY, DIMMING OPTION
\$	NLIGHT	NPODMA	X				X					SWITCH SHALL BE MINIMUM TWO BUTTON FOR ON AND OFF UNLESS NOTED OTHERWISE ON THE DRAWINGS. CAT6 CONNECTION BETWEEN DEVICE AND POWER PACK.
Ⓚ	NLIGHT	NPODMA DX	X				X					DIMMER SWITCH SHALL BE MINIMUM ON/OFF BUTTON WITH SEPERATE BUTTONS FOR DIMMING UP AND DIMMING DOWN UNLESS NOTED OTHERWISE ON DRAWINGS. CAT 6 CONNECTION BETWEEN DEVICE AND POWER PACK
◇ _{OS}	NLIGHT	NCM PDT		X			X	X				CEILING MOUNTED DIGITAL DUAL TECHNOLOGY OCCUPANCY SENSOR (CAT6)
◇ _{PDE}	NLIGHT	NPP16 D ER			X							DIGITAL UL 924 DEVICE (CAT6)
PP	SENSOR SWITCH	PP 20			X							NON-DIMMING POWER PACK
Ⓚ	LUTRON OR EQUAL	DIVA	X								4	120/277V 20A ROCKER SWITCH WITH 0-10V DIMMING. MULTI-WAY SWITCHING TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR FOR SPACE REQUIREMENTS.
\$	LUTRON OR EQUAL	20A TOGGLE SWITCH	X								3	120/277V 20A TOGGLE SWITCH. MULTI-WAY SWITCHING TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR FOR SPACE REQUIREMENTS.
GENERAL NOTES:												
A. ALL SENSORS ARE SHOWN FOR CONTROL PURPOSE ONLY; ADDITIONAL DEVICE/POWER MAY BE REQUIRED FOR A COMPLEX SYSTEM. VERIFY REQUIRED DEVICES WITH SYSTEM PROVIDER AND INSTALL COMPLETE SYSTEM.												
B. WIRE LIGHTING CONTROL COMPONENTS PER MANUFACTURERS INSTRUCTIONS.												
C. APPROVED MANUFACTURERS: COOPER WAVELINX & ACUITY BRANDS.												
D. SEE SPECIFICATION SECTION 262726 OR ON DRAWINGS SPECIFICATIONS FOR FACEPLATE AND DEVICE COLOR.												
NOTES:												
1. NUMBER REPRESENTS QUANTITY OF RELAYS PER DEVICE. SEE LIGHTING SHEETS FOR NUMBER OF RELAYS AND CONTROL ZONES. MULTI-RELAY ROOM CONTROLLERS MAY BE USED IN LIEU OF SINGLE RELAY ROOM CONTROLLERS.												
2. SEE SWITCH DETAILS FOR MORE INFORMATION ON SPECIFIC TIMECLOCK SWITCHES/DIMMERS BUTTION LAYOUT AND ENGRAVING.												
3. FOR USE AT BACK OF HOUSE, UNFINISHED SPACES, AND 120V 20A MOTOR DISCONNECTS SHALL BE STANDARD TOGGLE SWITCHES. SEE SPECIFICATION SECTION 262726 OR ON DRAWINGS SPECIFICATION FOR ADDITIONAL INFORMATION.												
4. A LINE VOLTAGE DIMMER SHALL ONLY BE USED IN RESIDENTAL INSTALLATIONS OR WHERE THE LUMINAIRE SUPPORTS ONLY LINE VOLTAGE DIMMING.												
5. MANUFACTURER SHALL DETERMINE IF SENSOR SHALL COME WITH INTEGRAL PHOTOCELL IN LIEU OF STAND ALONG DEVICE AS NEEDED FOR DEVICE.												

LUMINAIRE SCHEDULE											
TYPE	MANUFACTURER	CATALOG NAME	LAMP	MOUNTING	LOCATION	VOLTAGE	CCT	LUMENS	WATTS	NOTES	DESCRIPTION
E1	LITHONIA	LQM S W RG MVOLT	LED	SURFACE	WALL	MVOLT	---	---	2		SINGLE FACED WALL MOUNT EXIT SIGN.
P	LITHONIA	LDN6CYL 35/40	LED	PENDANT @ 3'-3" BELOW CEILING	CEILING	MVOLT	3500	5000	58		6" CYLINDER PENDANT. FIXTURE SHALL BE BLACK FINISH
AA	SUN VALLEY LIGHTING	LAJ2-YC/PA2-V/32LED-525mA-40K/120/PT/RAL-9005-T	LED	SURFACE	SITE	MVOLT	4000	6500	52	1	POLE-TOP LED. PROVIDE AN 8' ALUMINUM ROUND POLE. COLOR SHALL BE SELECTED BY ARCH.
NOTES:											
1.	FIXTURE SHALL BE PART OF ALTERNATE.										



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CONSULTANTS



Schuler Shook

LIGHTING DESIGN

THEATRE PLANNING

AUDIO VIDEO DESIGN

CLIENT

MINOT STATE UNIVERSITY

PROJECT DESCRIPTION

HOFFMAN AUDITORIUM RENOVATION - CYRIL MOORE HALL

CITY

MINOT

STATE

ND

ISSUE DATES

CD	CONSTRUCTION DOCUMENTS	09/04/2026
MARK	DESCRIPTION	DATE

PROJECT NO: 20262120

DRAWN BY: AA/HN

CHECKED BY: BW

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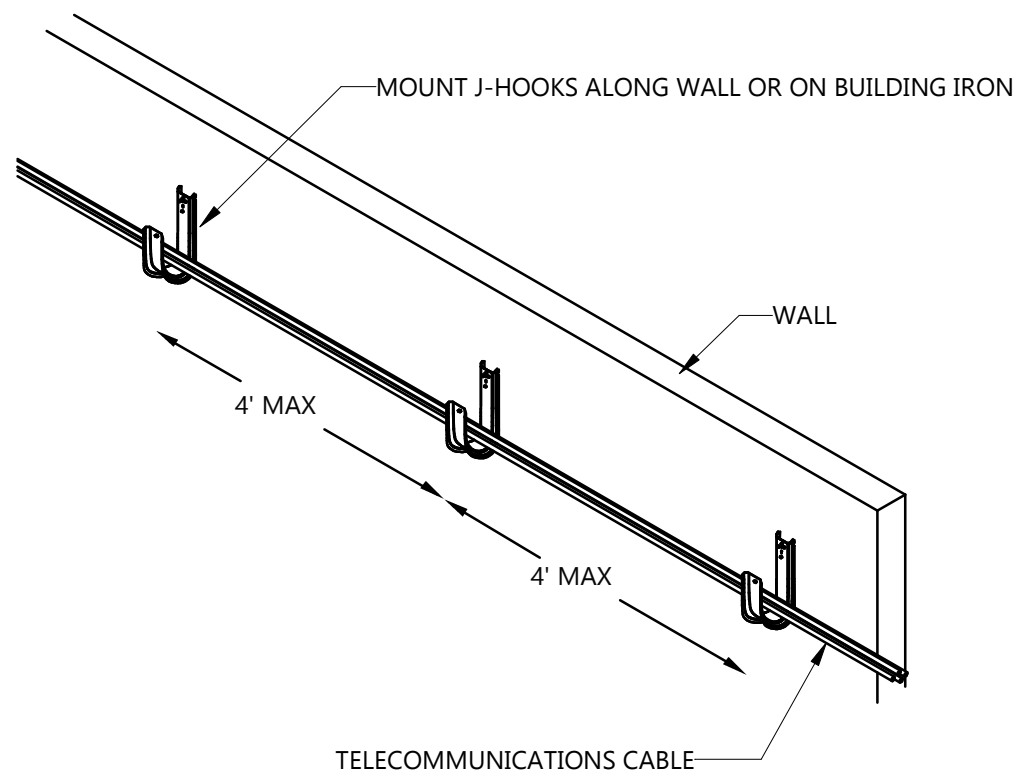


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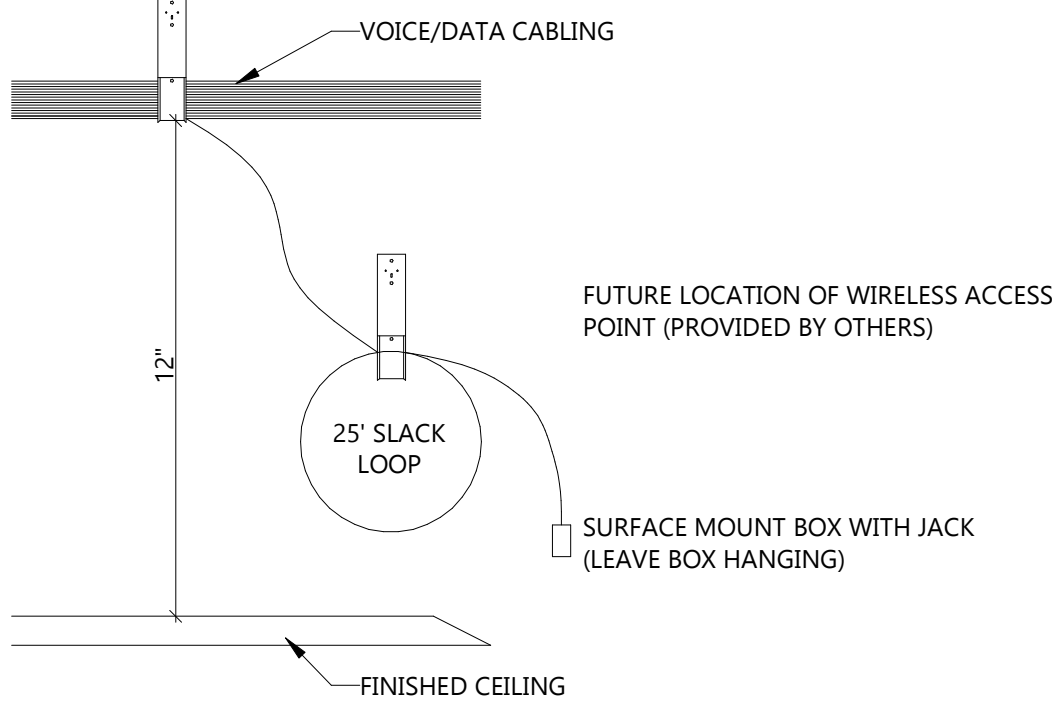
LIGHTING SCHEDULES & DETAILS

E802

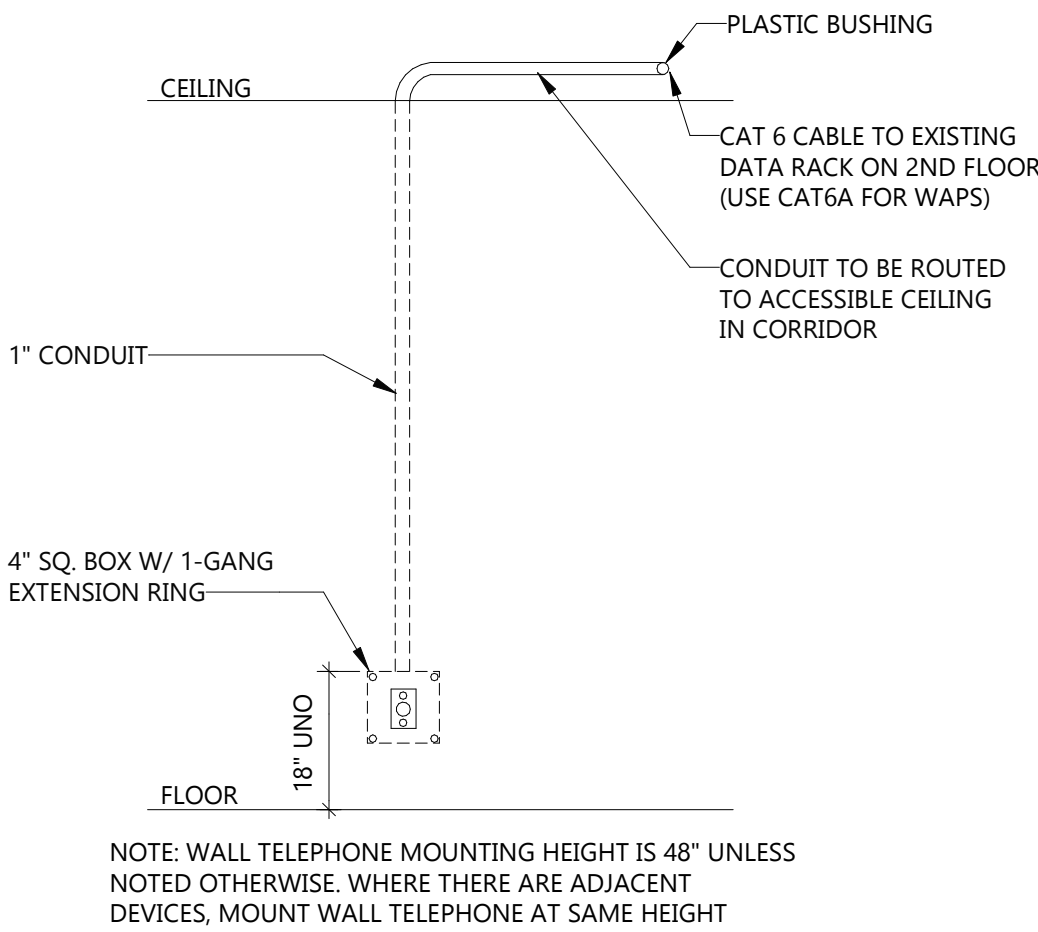
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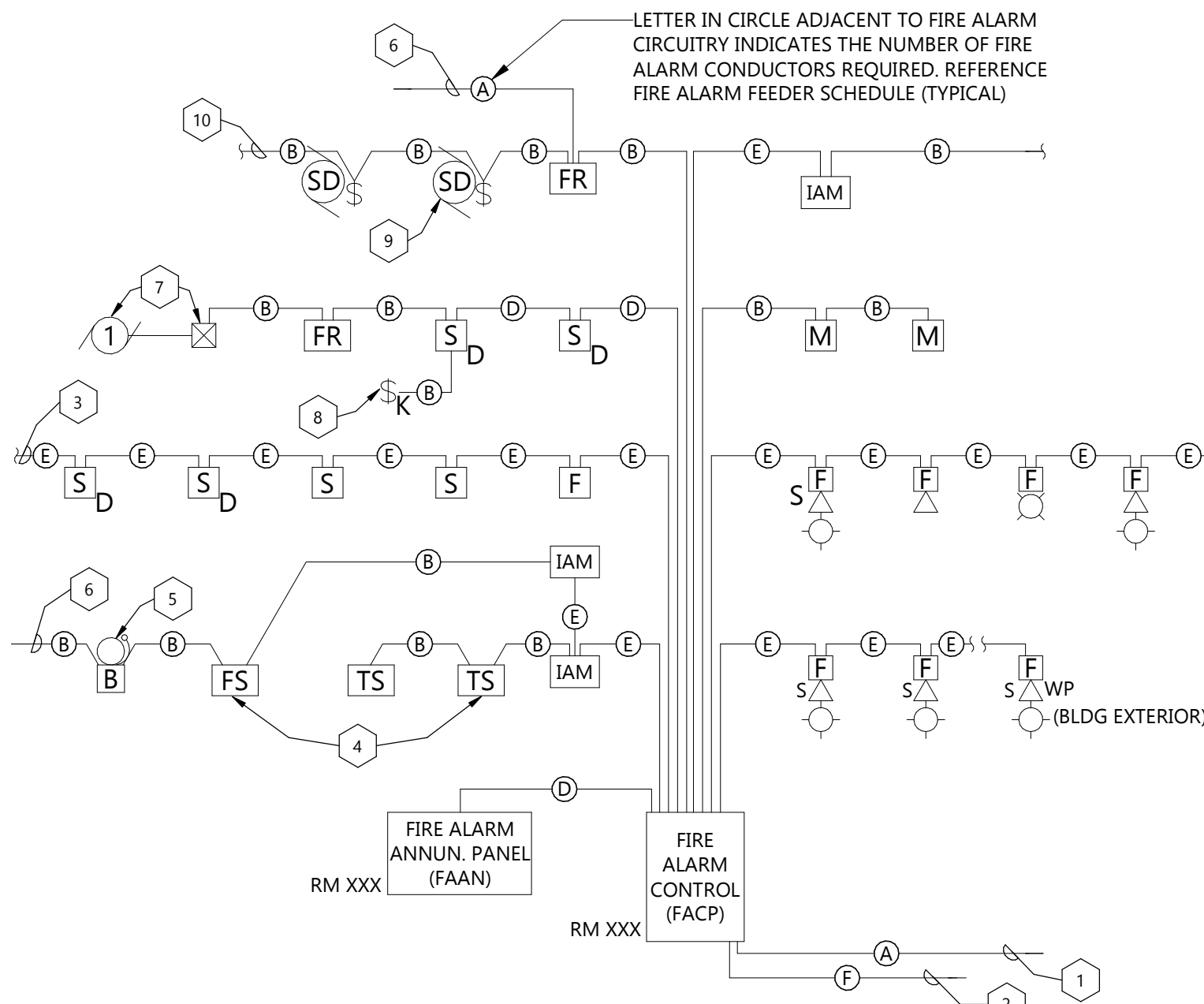
4 J-HOOK ROUTING DETAIL
NOT TO SCALE



3 TYPICAL WIRELESS ACCESS POINT DETAIL
NOT TO SCALE



2 DATA/TELEPHONE ROUGH-IN DETAIL
NOT TO SCALE



6 TYPICAL ADDRESSIBLE FIRE ALARM RISER
NOT TO SCALE

FIRE ALARM FEEDER SCHEDULE					
MARK	CONDUIT NO.	CONDUIT SIZE	CONDUCTORS PER CONDUIT #14	* COMMUNICATIONS CABLE	NOTES
(A)	1	1/2"	-	-	2#12 AWG
(B)	1	1/2"	2	-	-
(C)	1	1/2"	4	-	-
(D)	1	1/2"	2	1	-
(E)	1	1/2"	-	1	-
(F)	1	1/2"	-	-	(1)CATEGORY 5E UTP
(G)	1	3/4"	5	1	-
(H)	1	-	-	-	-
(J)	1	-	-	-	-
(K)	1	-	-	-	-

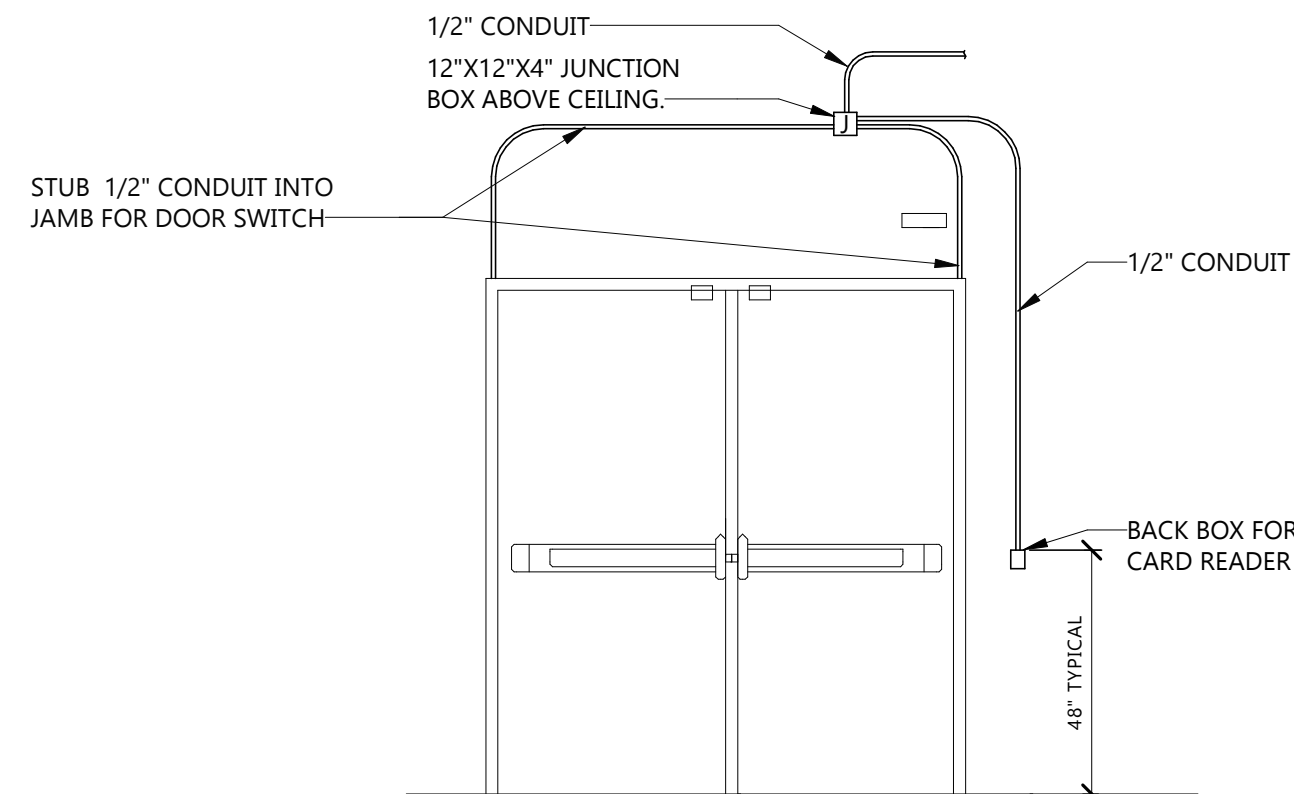
* COMMUNICATIONS CABLE TO BE 1-#18GA, TWISTED, SHIELDED PAIR. (WEST PENN #975 OR EQUAL)

GENERAL NOTE:

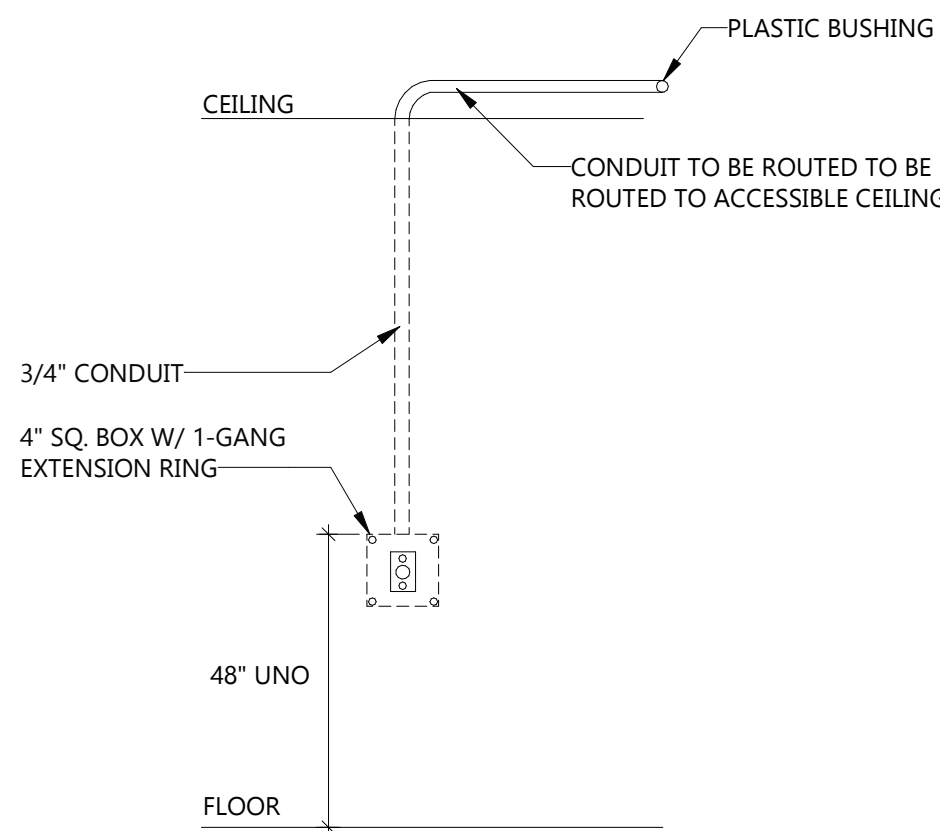
A. DETAIL SHALL BE USED FOR GENERAL WIRING DESIGN INTENT ONLY. VERIFY EXACT REQUIREMENTS AND COMPLY WITH MANUFACTURERS RECOMMENDATIONS FOR ACTUAL EQUIPMENT FURNISHED.

REFERENCE NOTES:

- TO DEDICATED 20/1 CIRCUIT BREAKER.
- TO TELEPHONE DEMARK FOR REMOTE REPORTING.
- TO NEXT DEVICE.
- ELECTRICAL CONTRACTOR TO ALLOW IN BID TO WIRE ALL TAMPER AND FLOW SWITCHES FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR. VERIFY QUANTITY LOCATION AND EXACT REQUIREMENTS WITH SPRINKLER CONTRACTOR.
- ELECTRICAL CONTRACTOR TO ALLOW IN BID TO WIRE SPRINKLER FLOW ALARM BELL FURNISHED AND INSTALLED ON BUILDING EXTERIOR BY SPRINKLER CONTRACTOR. PROVIDE LOW VOLTAGE TRANSFORMER (IF REQUIRED) AND EXTEND 120V POWER FROM NEAREST CONTINUOUS SOURCE.
- TO NEAREST CONTINUOUS 120 VOLT SOURCE.
- AIR HANDLING UNIT AND ASSOCIATED MOTOR CONTROLLER.
- REMOTE DUCT SMOKE DETECTOR ALARM INDICATOR AND TEST SWITCH. VERIFY EXACT LOCATION WITH MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
- SMOKE DAMPERS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. WIRED BY ELECTRICAL CONTRACTOR. TRANSFORMER BY MC, ISOLATION SWITCH BY EC.
- TO NEXT SMOKE DAMPER. DO NOT EXCEED (6) SMOKE DAMPERS PER RELAY.



5 DOUBLE DOOR CARD READER ROUGH-IN DETAIL
NOT TO SCALE



1 VOLUME CONTROL/THERMOSTAT MOUNTING DETAIL
NOT TO SCALE



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DETAILS, SCHEDULES &
RISER DIAGRAMS

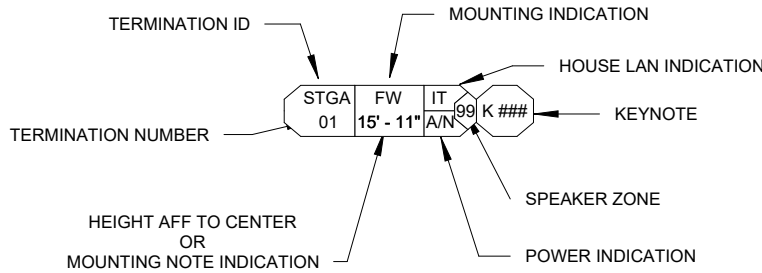
E803

NEW PANEL: LNA																	
LOCATION: MECHANICAL 106					VOLTS: 120/208 Wye					A.I.C. RATING: 22K							
SUPPLY FROM: MDP					PHASING: 3					CALCULATED A.I.C.:							
MOUNTING: Surface					WIRES: 4					MAINS TYPE: MLO							
ENCLOSURE: Type 1										MAINS RATING: 225 A							
										BUS RATING: 225 A							
CKT	CIRCUIT DESCRIPTION	CODES	TRIP	POLES	A		B		C		POLES	TRIP	CODES	CIRCUIT DESCRIPTION	CKT		
1	DOOR OPERATOR		20 A	1	500 VA	500 VA					1	20 A		POWER FURNITURE SEAT	2		
3	DOOR OPERATOR		20 A	1			500 VA	500 VA			1	20 A		POWER FURNITURE SEAT	4		
5	POWER FURNITURE DESK		20 A	1					500 VA	500 VA	1	20 A		POWER FURNITURE SEAT	6		
7	POWER FURNITURE DESK		20 A	1	500 VA	500 VA					1	20 A		POWER FURNITURE SEAT	8		
9	POWER FURNITURE DESK		20 A	1			500 VA	500 VA			1	20 A		POWER FURNITURE SEAT	10		
11	POWER FURNITURE DESK		20 A	1					500 VA	500 VA	1	20 A		POWER FURNITURE SEAT	12		
13	POWER FURNITURE DESK		20 A	1	500 VA	500 VA					1	20 A		POWER FURNITURE SEAT	14		
15	POWER FURNITURE DESK		20 A	1			500 VA	500 VA			1	20 A		POWER FURNITURE SEAT	16		
17	POWER FURNITURE DESK		20 A	1					500 VA	500 VA	1	20 A		POWER FURNITURE SEAT	18		
19	POWER FURNITURE DESK		20 A	1	500 VA	500 VA					1	20 A		POWER FURNITURE SEAT	20		
21	POWER FURNITURE DESK		20 A	1			500 VA	500 VA			1	20 A		POWER FURNITURE SEAT	22		
23	POWER FURNITURE DESK		20 A	1					500 VA	500 VA	1	20 A		POWER FURNITURE SEAT	24		
25	POWER FURNITURE DESK		20 A	1	500 VA	180 VA					1	20 A		RECEPT A/V EQUIPMENT	26		
27	POWER FURNITURE DESK		20 A	1			500 VA	180 VA			1	20 A		RECEPT A/V EQUIPMENT	28		
29	POWER FURNITURE DESK		20 A	1					500 VA	180 VA	1	20 A		RECEPT A/V EQUIPMENT	30		
31	POWER FURNITURE DESK		20 A	1	500 VA	180 VA					1	20 A		RECEPT A/V EQUIPMENT	32		
33	POWER FURNITURE DESK		20 A	1			500 VA	180 VA			1	20 A		RECEPT A/V EQUIPMENT	34		
35	POWER FURNITURE DESK		20 A	1					500 VA	180 VA	1	20 A		RECEPT A/V EQUIPMENT	36		
37	POWER FURNITURE DESK		20 A	1	500 VA	0 VA					1	20 A		SPARE	38		
39	RECEPT AUDITORIUM 101		20 A	1			540 VA	0 VA			1	20 A		SPARE	40		
41	RECEPT AUDITORIUM 101		20 A	1					540 VA	0 VA	1	20 A		SPARE	42		
43	RECEPT A/V RACK		20 A	1	180 VA	0 VA					1	20 A		SPARE	44		
45	RECEPT A/V RACK		20 A	1			180 VA	0 VA			1	20 A		SPARE	46		
47	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	48		
49	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE	50		
51	SPARE		20 A	1			0 VA	0 VA			1	20 A		SPARE	52		
53	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	54		
CONNECTED LOAD:					6040 VA		6080 VA		5900 VA								
EXISTING LOAD:					0 VA		0 VA		0 VA								
TOTAL LOAD:					6040 VA		6080 VA		5900 VA		HIGH PHASE						
FEED THRU AMPS:					0 A		0 A		0 A								
TOTAL AMPS:					51 A		51 A		49 A								
CODES:																	
1	SEE DRAWINGS FOR CONDUIT & CONDUCTORS		6		EXISTING BREAKER ON, VERIFY SPARE						11	LSI TRIP UNIT					
2	EXISTING BREAKER AND LOAD TO REMAIN		7		NEW BREAKER AND LOAD						12	PROVIDE LOCK ON DEVICE					
3	EXISTING BREAKER AND NEW LOAD		8		GFCI BREAKER						13	AFCI BREAKER					
4	EXISTING BREAKER TO BECOME SPARE		9		DEDICATED BREAKER												
5	EXISTING BREAKER OFF, VERIFY SPARE		10		HANDLE TIED BREAKER												
LOAD CLASSIFICATION																	
Power					15500 VA		100.00%		15500 VA		PANEL TOTALS						
Receptacle					2520 VA		100.00%		2520 VA								
											TOTAL CONN. LOAD: 18020 VA						
											TOTAL EST. DEMAND: 18020 VA						
											TOTAL CONN.: 50 A						
											TOTAL EST. DEMAND: 50 A						
NOTES:																	

EXISTING SWITCHBOARD: MDP																			
LOCATION: BOILER ROOM 103					VOLTS: 120/208 Wye					A.I.C. RATING:									
SUPPLY FROM:					PHASES: 3					MAINS TYPE:									
MOUNTING:					WIRES: 4					MAINS... 400A									
ENCLOSURE:										MCB RATING: 400A									
CKT	CIRCUIT DESCRIPTION	POLES	RATING	A	B	C	CODE	REMARKS											
1	PANEL 1L2A	3	200 A	0 VA	0 VA	0 VA	2												
2	PANELS 1L1A & B	3	200 A	0 VA	0 VA	0 VA	2												
3	PANEL 2L2A	3	200 A	0 VA	0 VA	0 VA	2												
4	PANELS 2L1A & B	3	200 A	0 VA	0 VA	0 VA	2												
5	PANEL 3L2A	3	200 A	0 VA	0 VA	0 VA	2												
6	PANELS 3L1A & B	3	200 A	0 VA	0 VA	0 VA	2												
7	PANEL LNA	3	225 A	6040 VA	6080 VA	5900 VA	3												
8	PANEL 4L1	3	200 A	0 VA	0 VA	0 VA	2												
9	PANEL C	3	100 A	0 VA	0 VA	0 VA	2												
10	1L3	3	100 A	0 VA	0 VA	0 VA	2												

SHEET LIST	
SHEET NUMBER	SHEET NAME
AV001	AV NOTES
AV011	AV DETAILS - CONNECTORS
AV012	AV DETAILS - CABLE AND CONDUIT
AV013	AV DETAILS - PANELS
AV014	AV DETAILS - INSTALLATION
AV031	AV SCHEDULES
AV051	AV SINGLE LINES
AV101	AV FLOOR PLAN
AV151	AV REFLECTED CEILING PLAN
AV300	AV SECTIONS
AV521	AV PANEL DETAILS
AV571	AV RACK ELEVATIONS

MOUNTING KEY INFO	
FC	MOUNT FLUSH IN CEILING
FF	MOUNT FLUSH IN FLOOR
FW	MOUNT FLUSH IN WALL
SC	MOUNT ON CEILING SURFACE
SF	MOUNT FREE STANDING ON FLOOR
SW	MOUNT ON WALL SURFACE
MS	MOUNT TO STRUCTURE
ND	REFER TO NOTE OR DETAIL DRAWING



TERMINATION LEGEND

TERMINATION NOTES:

- SEE AV TERMINATION SCHEDULE FOR A LIST OF PROJECT TERMINATION IDENTIFIERS.
- THE 70 VOLT LOUDSPEAKER ZONES INDICATE GROUPINGS OF LOUDSPEAKERS WHOSE SOURCE AND VOLUME SELECTION CHANGE TOGETHER. IT DOES NOT NECESSARILY INDICATE THEY ARE ALL ON ONE AMPLIFIER CHANNEL. AMPLIFIER CHANNELS MUST BE ALLOCATED TO PROVIDE FULL POWER TO ALL ATTACHED LOUDSPEAKERS AT THE MAXIMUM TAP. REFER TO SPECIFICATIONS 27 41 00 FOR MORE INFORMATION ON 70 VOLT LOUDSPEAKER SYSTEMS REQUIREMENTS.
- THE TERMINATION MOUNTING INDICATION DETAILS HOW A PARTICULAR TERMINATION SHOULD BE MOUNTED. FOR ALL TERMINATION MOUNTING CODES (SEE TABLE TO THE RIGHT) EXCEPT FOR ND (NOTE OR DETAIL) AND MS (MOUNT TO STRUCTURE) A HEIGHT ABOVE FINISHED FLOOR TO THE CENTER OF THE BACKBOX IN INCHES OR FEET, AS INDICATED, IS NOTED BELOW THE MOUNTING INDICATION. FOR ND OR MS THE NUMBER OR LETTER BELOW HAS NO INCH OR FOOT SYMBOL, AND INSTEAD REFERS TO A NOTE NUMBER IN THE SHEET NOTES.
- HOUSE LAN CONNECTION INDICATION - IF 'IT' IS INDICATED, A HOUSE LAN CONNECTION IS TO BE PROVIDED TO THE TERMINATION BY THE DIVISION 27 STRUCTURED CABLING SCOPE OF WORK AND TERMINATED. IN THE CASE OF A PANEL THE AV CONTRACTOR WILL PROVIDE A CONNECTOR ON THE PANEL FOR THE STRUCTURED CABLING CONTRACTOR TO TERMINATE TO. IN THE CASE OF A RACK, THE AV CONTRACTOR WILL PROVIDE AN EMPTY PORT ON AN APPROPRIATE CATEGORY PATCH PANEL OR A CONNECTOR ON A RACK PANEL FOR THE STRUCTURED CABLING CONTRACTOR TO TERMINATE TO.
- POWER INDICATION - IF POWER IS REQUIRED TO BE SUPPLIED AT THIS TERMINATION LOCATION, EITHER AN 'A', OR AN 'N' WILL BE SHOWN. AN 'A' INDICATES THE NEED FOR AV ISOLATED GROUND POWER TO BE PROVIDED. AN 'N' INDICATES THE NEED FOR A STANDARD 120V 20A DEDICATED CONVENIENCE CIRCUIT THAT IS NOT CONNECTED TO THE AV ISOLATED GROUND POWER PANEL(S) OR TRANSFORMER.



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AV GENERAL NOTES:

- THESE DRAWINGS INDICATE DESIGN INTENT. THEY ARE NOT FULLY DETAILED SHOP DRAWINGS. IT IS IN THE SCOPE OF WORK FOR SECTION 27 41 00 TO PROVIDE FULLY DETAILED SHOP DRAWINGS AS A SUBMITTAL FOR REVIEW BY THE AV CONSULTANT. REFER TO THAT SECTION FOR A DETAILED LIST OF SUBMITTAL REQUIREMENTS.
- ALL AV AND CONVENIENCE POWER REQUIREMENTS INDICATED IN THESE DRAWINGS, AS WELL AS ALL WIRE PATH (CONDUIT, RACEWAY, LADDER TRAY, J-HOOKS, AND CABLE PASSES) ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. REFER TO 27 41 00 WORK SCOPE TABLE FOR DETAILED INFORMATION ON DIVISION OF SCOPE BETWEEN 27 41 00 AND OTHER SECTIONS WITHIN DIVISION 27, AS WELL AS OTHER DIVISIONS.
- ALL LINE VOLTAGE RECEPTACLES, OTHER THAN THOSE INTEGRATED AS PART OF A RACK-MOUNTED POWER DISTRIBUTION DEVICE OR SHOWN AS INTEGRATED WITHIN A CUSTOM AV PANEL, ARE PROVIDED AND INSTALLED BY DIVISION 26. ANY LINE VOLTAGE RECEPTACLES INTEGRATED WITHIN A CUSTOM AV PANEL MUST BE SEPARATED FROM LOW VOLTAGE WIRING AND TERMINATIONS BY A METALLIC BARRIER. THIS METHOD IS ONLY ALLOWABLE WHERE INDICATED IN PANEL DRAWINGS. ALL OTHER LOCATIONS MUST HAVE SEPARATE BOXES FOR LINE VOLTAGE OUTLETS AS INDICATED IN THE PANEL DRAWINGS. REFER TO 27 41 00 WORK SCOPE TABLE FOR DETAILED INFORMATION ON DIVISION OF SCOPE BETWEEN 27 41 00 AND OTHER SECTIONS WITHIN DIVISION 27, AS WELL AS OTHER DIVISIONS.
- CONFIRM THE FOLLOWING WITH THE ARCHITECT PRIOR TO PURCHASE OF MATERIALS AND INSTALLATION:
 - CONFIRM FLUSH OR SURFACE MOUNT FOR ALL BACKBOX DEVICES
 - CONFIRM CUSTOM COLOR REQUIREMENTS FOR ANY PANELS IN VIEW OF THE AUDIENCE OR PRODUCTION VIDEO CAMERAS. OTHER PANELS WILL BE PER THE SPECIFICATIONS.
 - CONFIRM CUSTOM COLOR REQUIREMENTS FOR LOUDSPEAKERS OR OTHER AV DEVICES INSTALLED IN VIEW OF THE AUDIENCE OR PRODUCTION VIDEO CAMERAS.
- ALL RIGGING FOR AV DEVICES INDICATED IN THE DRAWINGS IS CONCEPTUAL ONLY. REFER TO 27 41 00 PART 3 FOR DETAILS ON RIGGING REQUIREMENTS FOR AV DEVICES AND THE REQUIREMENT FOR ALL RIGGING DRAWINGS TO BE STAMPED BY A STRUCTURAL ENGINEER.
- ADDITIONAL SUPPORT AND/OR BACKING IN STUD WALLS AND CEILINGS MAY BE REQUIRED FOR PROPER AND SAFE INSTALLATION.
- ANY DISCREPANCIES BETWEEN DRAWINGS MUST BE PRESENTED IN AN RFI FOR CLARIFICATION PRE-BID. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM. PLEASE SEE 27 41 00 PART 1.3 FOR COMPLETE DETAILS.

WORK SCOPE TABLE (SEE SECTION 27 41 00 FOR ADDITIONAL INFORMATION)

ITEMS PROVIDED AND INSTALLED	ELECTRICAL CONTRACTOR PROVIDE	ELECTRICAL CONTRACTOR INSTALL	AV INTEGRATOR PROVIDE	AV INTEGRATOR INSTALL
MAIN POWER PANEL BOARDS AND CIRCUIT BREAKERS	X	X		
AUDIO VIDEO ISOLATED GROUND POWER (AVIGP)TRANSFORMERS	X	X		
AVIGP ISOLATED GROUND CONDUIT, AND CONDUCTORS	X	X ¹		
AVIGP PANEL BOARDS AND CIRCUIT BREAKERS	X	X		
AVIGP STANDARD LOAD CENTERS AND CIRCUIT BREAKERS	X	X		
AVIGP COMPANY SWITCHES	X	X		
AUDIO VIDEO SYSTEMS EQUIPMENT RACKS, TERMINATION PANELS, AND AUDIO VIDEO DEVICES				
RACKS			X	X
TERMINATION PANELS			X	X
TERMINATION PANEL BACK BOXES		X ¹	X	
TERMINATION PANEL FLOOR BOXES		X ¹	X	
ALL CONDUIT, J-BOXES, CABLE SLEEVES, LADDER TRAY, MOUNTING HARDWARE FOR AUDIO VIDEO SYSTEMS SIGNAL AND CONTROL CABLING	X	X ¹		
CONDUIT ISOLATION BUSHINGS AT RACKS	X	X		
AUDIO VIDEO CABLING			X	X
AUDIO VIDEO CABLING TERMINATION			X	X
AVIGP BRANCH CIRCUITS FOR SYSTEMS EQUIPMENT RACKS GOING TO:				
IN WALL OUTLETS	X	X		
LADDER TRAY MOUNTED OUTLETS	X	X		
CEILING MOUNTED OUTLETS	X	X		
IN RACK POWER DISTRIBUTION DEVICES		X ²	X ²	
AUDIO VIDEO SYSTEMS CONDUIT RISER DIAGRAM SUBMITTAL	X ³			

NOTE 1: INSTALLATION CRITERIA AND COORDINATION PROVIDED BYAV INTEGRATOR

NOTE 2: RACK POWER RACEWAYS ARE PROVIDED AND INSTALLED BY THE AV INTEGRATOR. THE BRANCH CIRCUITS ARE INSTALLED AND TERMINATED TO THE RACEWAY BY THE ELECTRICAL CONTRACTOR. CARE MUST BE TAKEN TO MAINTAIN THE ISOLATION OF THE RACK AND ITS CONTENTS FROM BUILDING GROUND.

NOTE 3: THE CONDUIT RISER DIAGRAM IS DEVELOPED BY THE ELECTRICAL CONTRACTOR WITH CRITERIA PROVIDED BY THEAV INTEGRATOR. THIS IS A CRITICAL SUBMITTAL. ANY CONDUIT INSTALLED PRIOR TO APPROVAL IS AT RISK AND ANY REPLACEMENT, REMEDIATION, OR REPAIRS REQUIRED TO MEET SPECIFICATIONS WILL BE PERFORMED AT THE CONTRACTORS COST.

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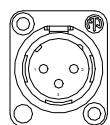
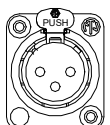
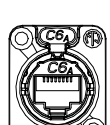
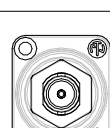
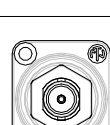
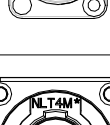
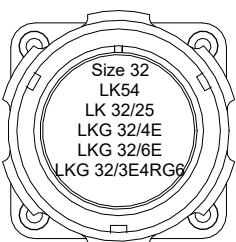
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KEY TO STANDARD CONNECTORS								
INTERIOR								
CONNECTOR	TYPE	FLOW	MANUFACTURER	INTERIOR MODEL	EXTERIOR MODEL	DESCRIPTION	REQUIRED INTERIOR ACCESSORIES	REQUIRED EXTERIOR ACCESSORIES
	XLR	SEND	NEUTRIK	NC3MD-LX-BAG	NC3MDXX-TOP	3 PIN XLR PANEL MOUNT BLACK PIN		
	XLR	RECEIVE	NEUTRIK	NC3FD-LX-BAG	NC3FDXX-TOP	3 PIN XLR PANEL MOUNT BLACK SOCKET		
	CATEGORY	BI-DIRECTIONAL	NEUTRIK	NE8FDX-Y6-B	NE8FDX-Y6-W	ETHERCON 8P8C SHEILDED CAT6a PANEL MOUNT BLACK	NEUTRIK SCDP-FX-*	NEUTRIK SCDP-FX-*
	FIBER	BI-DIRECTIONAL	NEUTRIK	NO2-4FDW-1-A	FIBERFOX EBC15 2CH briDge	2 CORE OPTICALCON FIBER PANEL MOUNT BLACK		NEUTRIK SCCD-W
	ANT BNC	SEND OR RECEIVE	NEUTRIK	NBB75DFIB		1 PIN COAXIAL PANEL MOUNT BLACK SOCKET		
	SDI BNC	SEND OR RECEIVE	NEUTRIK	NBB75DFIX	NBB75DFIX	1 PIN COAXIAL PANEL MOUNT BLACK SOCKET		NEUTRIK SCDP-FX*
	HDMI	SEND OR RECEIVE	NEUTRIK	NAHDMI-W-B		HDMI PANEL MOUNT BLACK SOCKET		NEUTRIK SCF
	SPEAKER4	SEND OR RECEIVE	NEUTRIK	NLT4MPXX-BAG	NLT4MPXX-BAG	4 POSITION PANEL MOUNT BLACK PIN METAL CHASSIS		NEUTRIK SCL AND SCNLT
	SPEAKER8	SEND OR RECEIVE	NEUTRIK	NL8MPRX-BAG	NL8MPRX-BAG	8 POSITION PANEL MOUNT BLACK PIN METAL CHASSIS		NEUTRIK NDL8 AND SCNLT
	LINK	SEND OR RECEIVE DEPENDING ON CONFIGURATION	LINK	SIZE 32 AS CONFIGURED	SIZE 32 AS CONFIGURED	MULTIPIN LOCKING CONNECTOR AS CONFIGURED		

CHECK ALL NOTES FOR ADDITIONAL INFORMATION ABOUT SPECIFIC CONNECTORS

- * = PROVIDE THE FOLLOWING COLORS BASED ON LAN TYPE
- 0 BLACK FOR GENERIC PATCHABLE CONNECTIONS
 - 5 GREEN FOR PRIMARY AUDIO CONNECTIONS
 - 2 RED FOR SECONDARY AUDIO CONNECTIONS
 - 9 WHITE FOR VIDEO CONNECTIONS
 - 4 YELLOW FOR NETWORK INTERCOM CONNECTIONS

1

AV011

INTERIOR AND EXTERIOR CONNECTORS

SCALE: 6" = 1'-0"

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AV DETAILS -
CONNECTORS

AV011

AV CABLE TYPE SCHEDULE					
SIGNAL GROUP	FUNCTION	CODE	MANUFACTURER	WIRE PART NUMBER	OUTER DIAMETER
I	MICROPHONE	MIC	WINDY CITY WIRE	22-1PREZ-BLK	0.134
II	LINE LEVEL/AES-EBU DIGITAL	LINE	BELDEN	1696A	0.234
II	ANALOG 2-WIRE COMM SYSTEM	ACOM	WINDY CITY WIRE	18-1PS-COMM	0.202
III	TWISTED PAIR UNJACKETED LOUDSPEAKER 10 AWG	SP10	WINDY CITY WIRE	NJ10-02	0.326
III	TWISTED PAIR UNJACKETED LOUDSPEAKER 12 AWG	SP12	WINDY CITY WIRE	8120265-110	0.25
III	TWISTED PAIR UNJACKETED LOUDSPEAKER 14 AWG	SP14	WINDY CITY WIRE	81402105-110	0.226
III	TWISTED PAIR JACKETED LOUDSPEAKER 8 AWG	SPJ08	WEST PENN	C208	0.498
III	TWISTED PAIR JACKETED LOUDSPEAKER 14 AWG	SPJ14	WINDY CITY WIRE	14-02-BLK	0.21
III	TWISTED PAIR JACKETED LOUDSPEAKER 16 AWG	SPJ16	WINDY CITY WIRE	16-02-BLK	0.184
III	TWISTED PAIR JACKETED LOUDSPEAKER 16 AWG - REMOTE POWER	REMPWR	WINDY CITY WIRE	16-02-BLK	0.184
III	4 COND JACKETED 70V VOLUME CONTROL 16 AWG	VCTRL	WINDY CITY WIRE	16-04-GRY	0.215
III	4 COND JACKETED 1P-18AWG, 1P-22AWG+SHIELD	SP48	WINDY CITY WIRE	CRESCOM	0.228
IV	ANALOG AND SDI COAX	VIDSDI	BELDEN	1794A	0.32
IV	RF MIC AND ALS ANTENNA - SHORT RUN	ANTS	BELDEN	7810A	0.242
IV	RF MIC AND ALS ANTENNA - LONG RUN	ANTL	BELDEN	9914	0.403
IV	CONTROL SYSTEM RS-232/ RS-485/ RELAY/ IR	CTRL	WINDY CITY WIRE	18-1PS-COMM	0.202
IV	MIDI	MIDI	BELDEN	9941	0.23
IV	MEYER RMS	RMS	BELDEN	8205	0.18
V	SHIELDED CAT6A	STP	WINDY CITY WIRE	CAT6AS-BLK	0.288
V	UNSHIELDED CAT6A	UTP	BELDEN	2412	0.22
V	SINGLEMODE FIBER - 6CT. OS2	6OS2	WINDY CITY WIRE	OCC-DZ006D-SLX 9YR	0.21
V	MULTIMODE FIBER - 6CT. OM4	6OM4	WINDY CITY WIRE	OCC-DZ006DALE-9QR	0.21
V	SMPTE HYBRID	SMPTE	GEPKO	HDC920R	0.362
VI	EMPTY CONDUIT - 1"	COND1			1
VI	EMPTY CONDUIT - 2"	COND2			2
VI	BEVWAY DUCT	BEVWAY	KELLY BEVWAY	8 INCH	
VI	FIRE STOP CABLE PASS - SINGLE	CBP1	ABESCO	1 EA. 31942 + 1 EA. 31982	
VI	FIRE STOP CABLE PASS - TRIPLE	CBP3	ABESCO	3 EA. 31942 + 1 EA. 31986	

- NOTES:
- CABLE SUBSTITUTIONS MAY BE ALLOWED IF APPROVED BY THE AV CONSULTANT. REFER TO 27 41 00 FOR SUBSTITUTION REQUEST REQUIREMENTS.
 - CABLE OUTER DIAMETER INFORMATION IS PROVIDED FOR GUIDANCE ONLY. MANUFACTURERS DO MAKE CHANGES TO THE CABLES FROM TIME TO TIME THAT AFFECT THE OUTER DIAMETER. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE CABLE DIAMETERS FOR THE PURPOSES OF APPROPRIATE CONDUIT SIZING.
 - WHEN SIZING CONDUITS, REFER TO 27 41 00 FOR SPARE CABLING REQUIREMENTS TO INCLUDE CABLE SPARES IN CONDUIT SIZING CALCULATIONS.

CONDUIT SEPARATIONS BY AV SIGNAL TYPE						
	SIGNAL GROUP I	SIGNAL GROUP II	SIGNAL GROUP III	SIGNAL GROUP IV	SIGNAL GROUP V	SIGNAL GROUP VI
SIGNAL GROUP 1 - MIC	NONE	6"	12"	12"	12"	12"
SIGNAL GROUP II - LINE LEVEL AND ANALOG COMM	6"	NONE	12"	6"	6"	12"
SIGNAL GROUP III - LOUDSPEAKER	12"	12"	NONE	6"	6"	12"
SIGNAL GROUP IV - COAXIAL VIDEO, ANTENNA, AND CONTROL	12"	6"	6"	NONE	NONE	12"
SIGNAL GROUP V - CATEGORY AND FIBER OPTIC	12"	6"	6"	NONE	NONE	12"
SIGNAL GROUP VI - EMPTY CONDUIT AND CABLE PASS	12"	12"	12"	12"	12"	12"
DIMMER AND SCR CONTROLLED SERVICES	24"	12"	6"	12"	12"	24"
220 AND 440 VAC SERVICES	6"	6"	NONE	NONE	NONE	6"
ALL OTHER ELECTRICAL SERVICES	6"	6"	NONE	NONE	NONE	6"

- NOTES:
- CONDUIT SEPARATIONS ABOVE ARE BASED ON THE USE OF EMT CONDUIT FOR ALL AV SIGNALS AND POWER SERVICES. IF PVC CONDUIT IS USED (ONLY ALLOWABLE UNDERGROUND FOR AV SIGNAL GROUPS), SEPARATIONS MUST BE DOUBLED. IF RIGID CONDUIT IS USED, SEPARATIONS MAY BE HALVED
 - CONDUITS MAY CROSS AT NINETY DEGREE ANGLES TO EACH OTHER IN CLOSE PROXIMITY.
 - ALL AV SIGNAL CONDUITS MUST MAINTAIN PROPER SEPARATIONS UNTIL WITHIN 6' OF A TERMINATION BOX, JUNCTION BOX, EQUIPMENT RACK OR GUTTER ENTRY.
 - HEAVY CURRENT DEMANDS IN ABOVE POWER SERVICES MAY REQUIRE GREATER SEPARATIONS THAN INDICATED TO AVOID INTERFERENCE IN AV SYSTEMS.
 - PARALLEL RUNS OF POWER SERVICES GREATER THAN 100' MAY REQUIRE GREATER SEPARATIONS THAN INDICATED TO AVOID INTERFERENCE IN AV SYSTEMS.
 - THE CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM THE AV CONSULTANT FOR EACH AND EVERY DEVIATION FROM THESE REQUIREMENTS.

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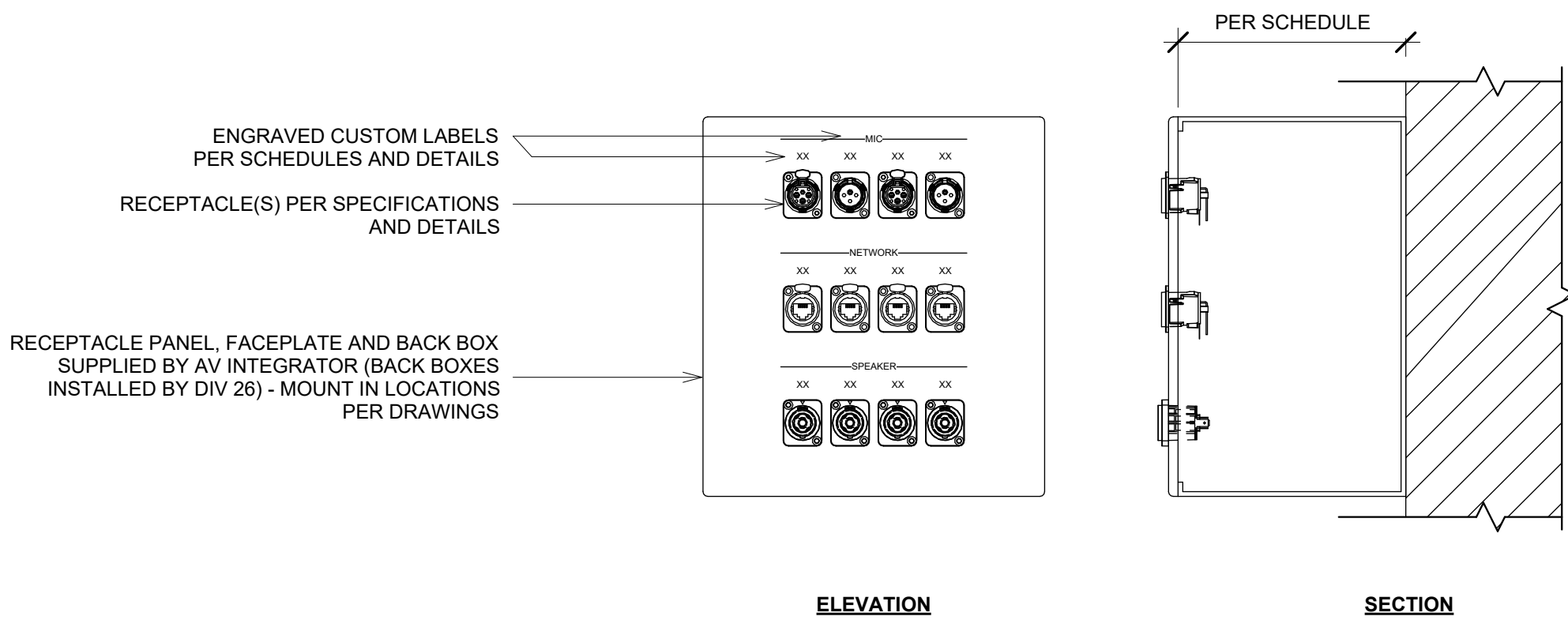
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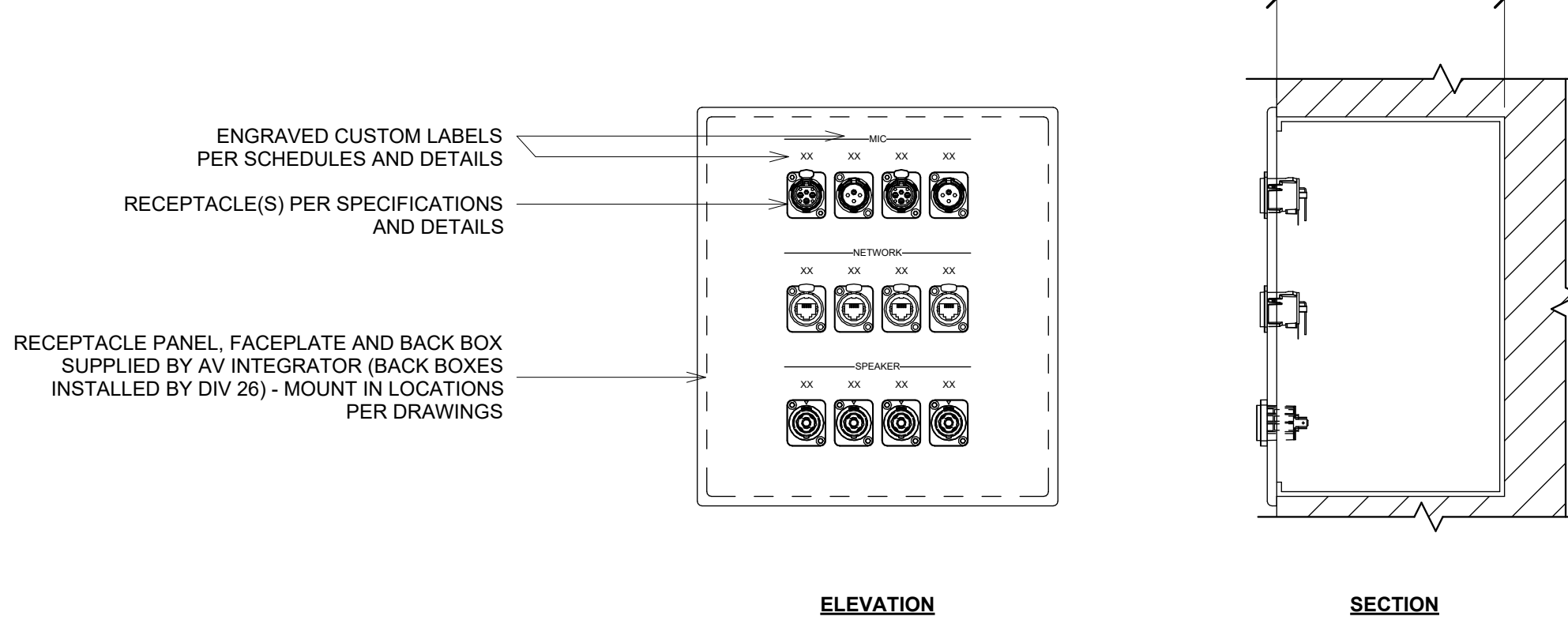
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AV DETAILS - CABLE
AND CONDUIT

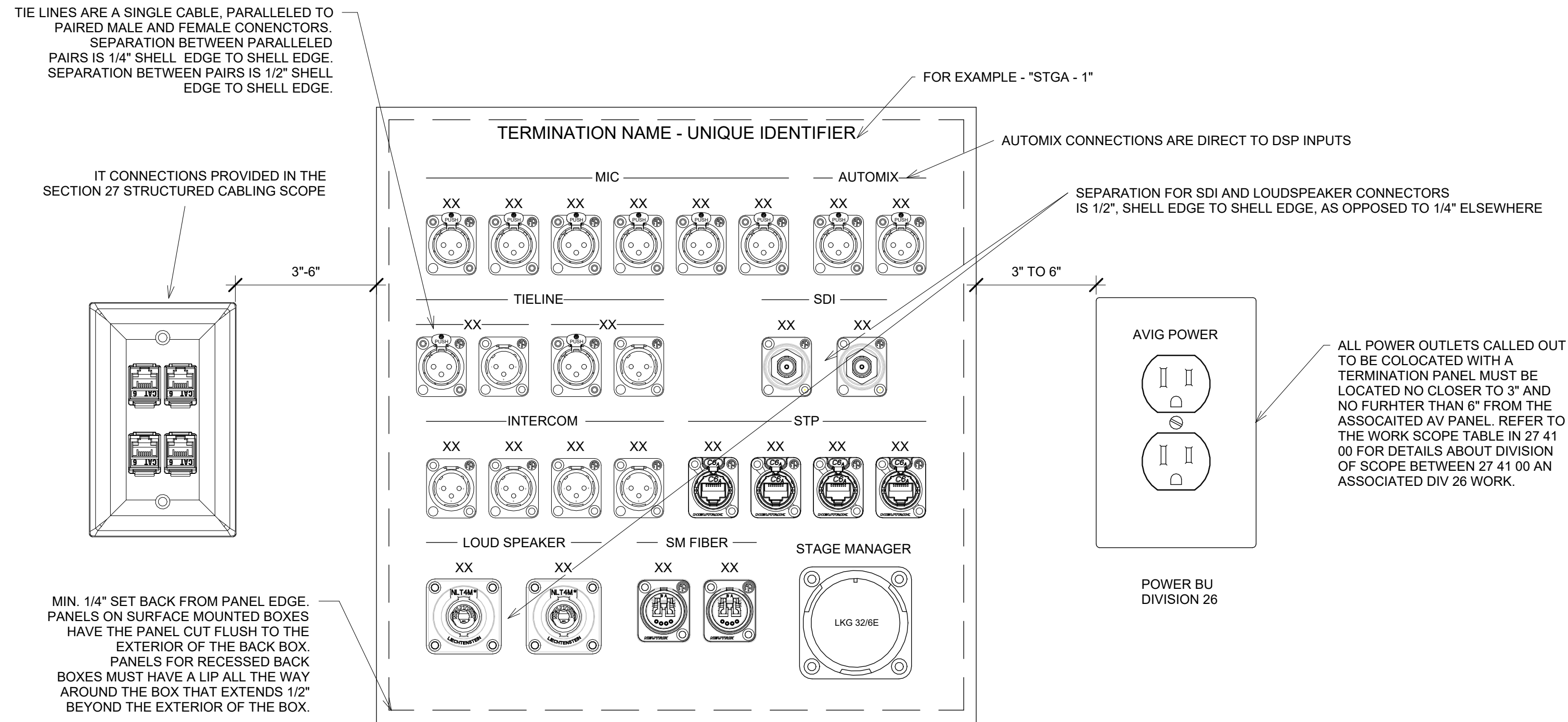
AV012



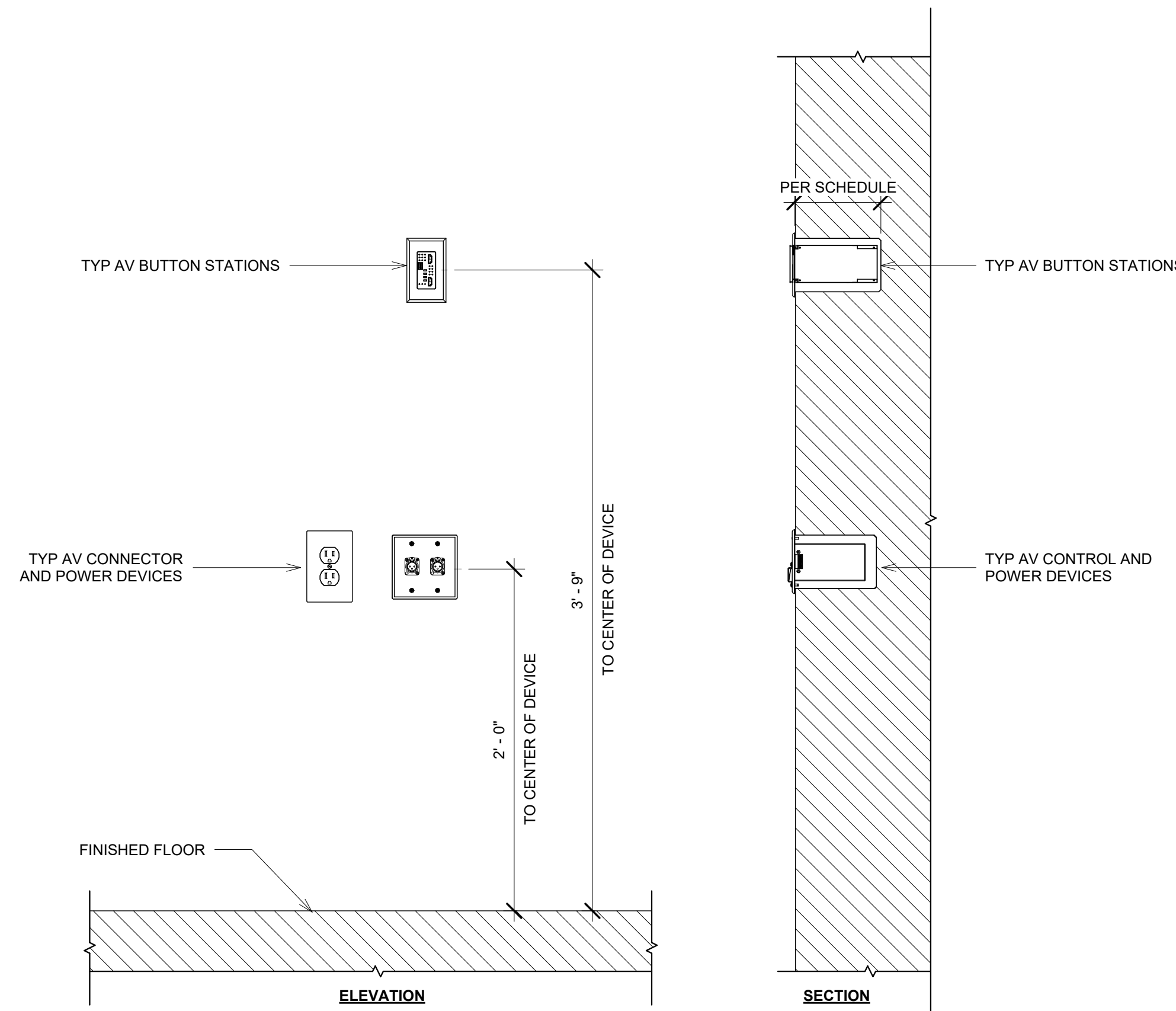
1 AV013 AV PANEL - TYPICAL SURFACE MOUNT
SCALE: 3" = 1'-0"



2 AV013 AV PANEL - TYPICAL RECESS MOUNT
SCALE: 3" = 1'-0"



3 AV013 AV PANEL STANDARD DETAIL
SCALE: 6" = 1'-0"



4 AV013 AV PANEL - TYPICAL MOUNTING HEIGHTS
SCALE: 1 1/2\"/>

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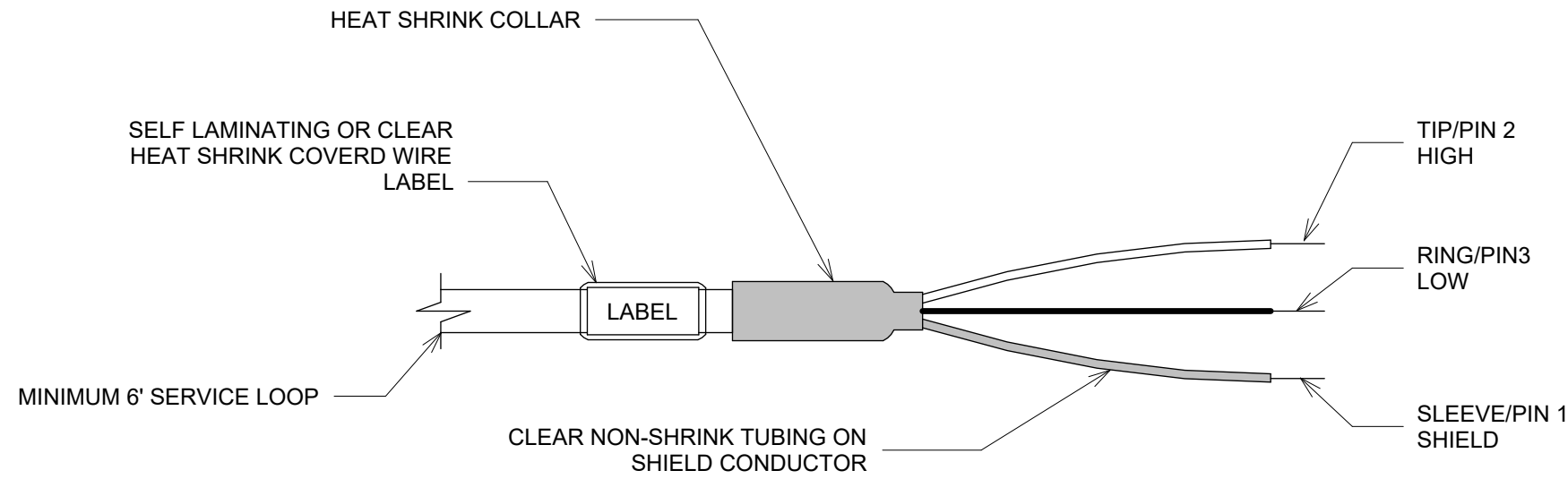
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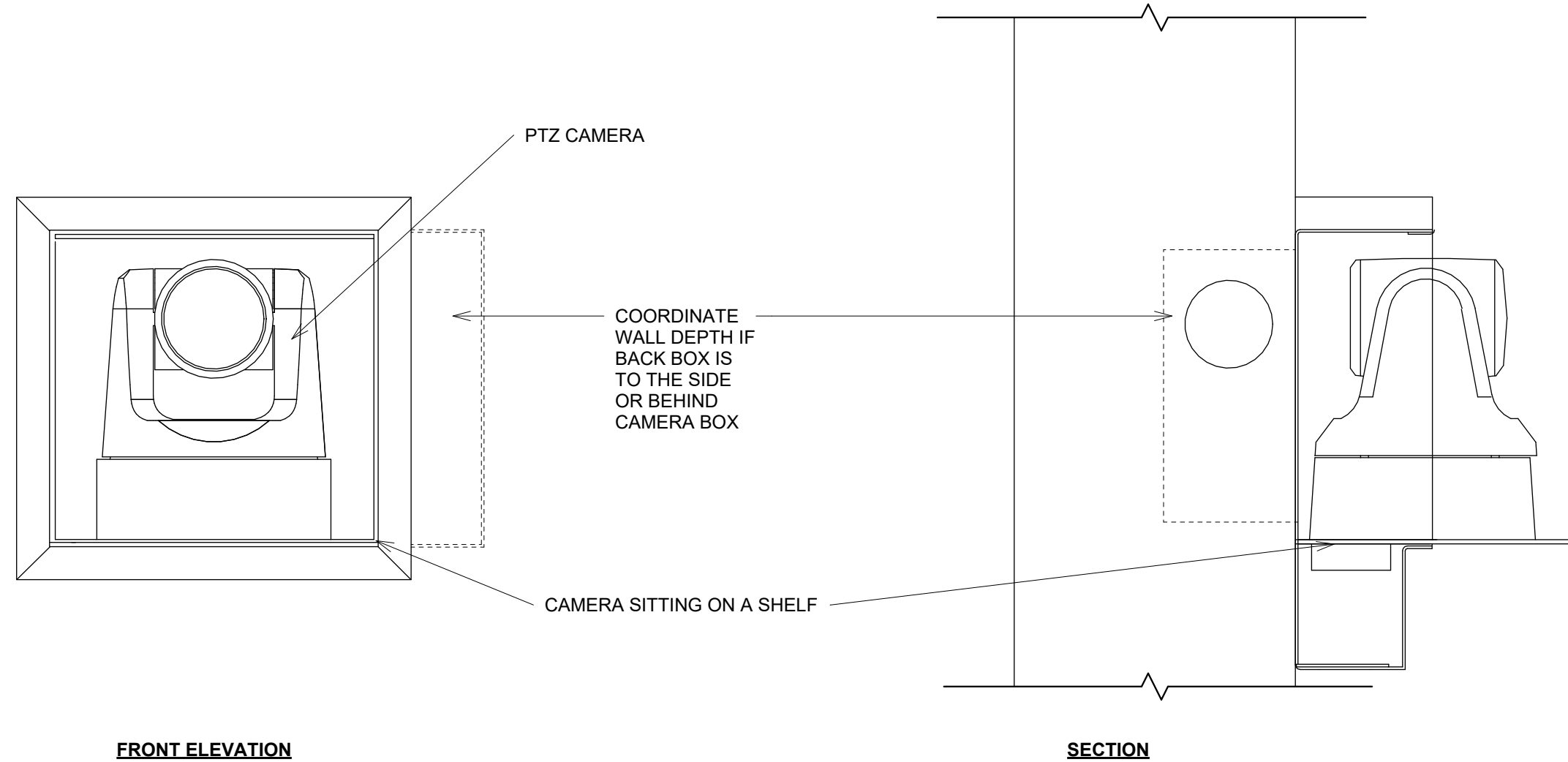
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AV DETAILS - PANELS

AV013

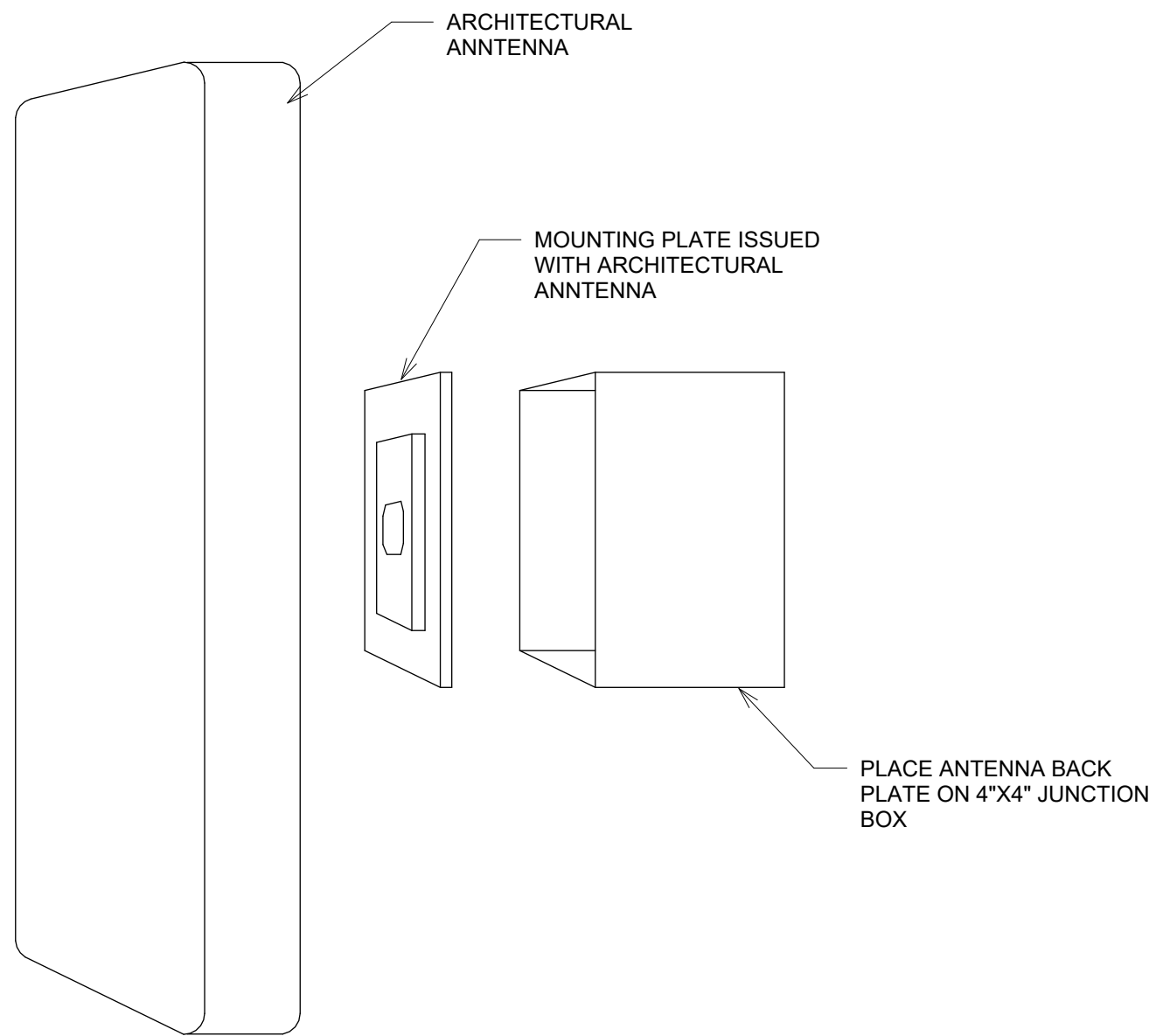
NOTE:
WIRE LABEL SHALL BE APPLIED TO CABLE WITH TEXT STARTING CLOSEST TO CONNECTOR
SHIELD IS TERMINATED AT BOTH ENDS FOR ALL INTERCOM, MICROPHONE, LINE AND TIE-LINE CONNECTIONS



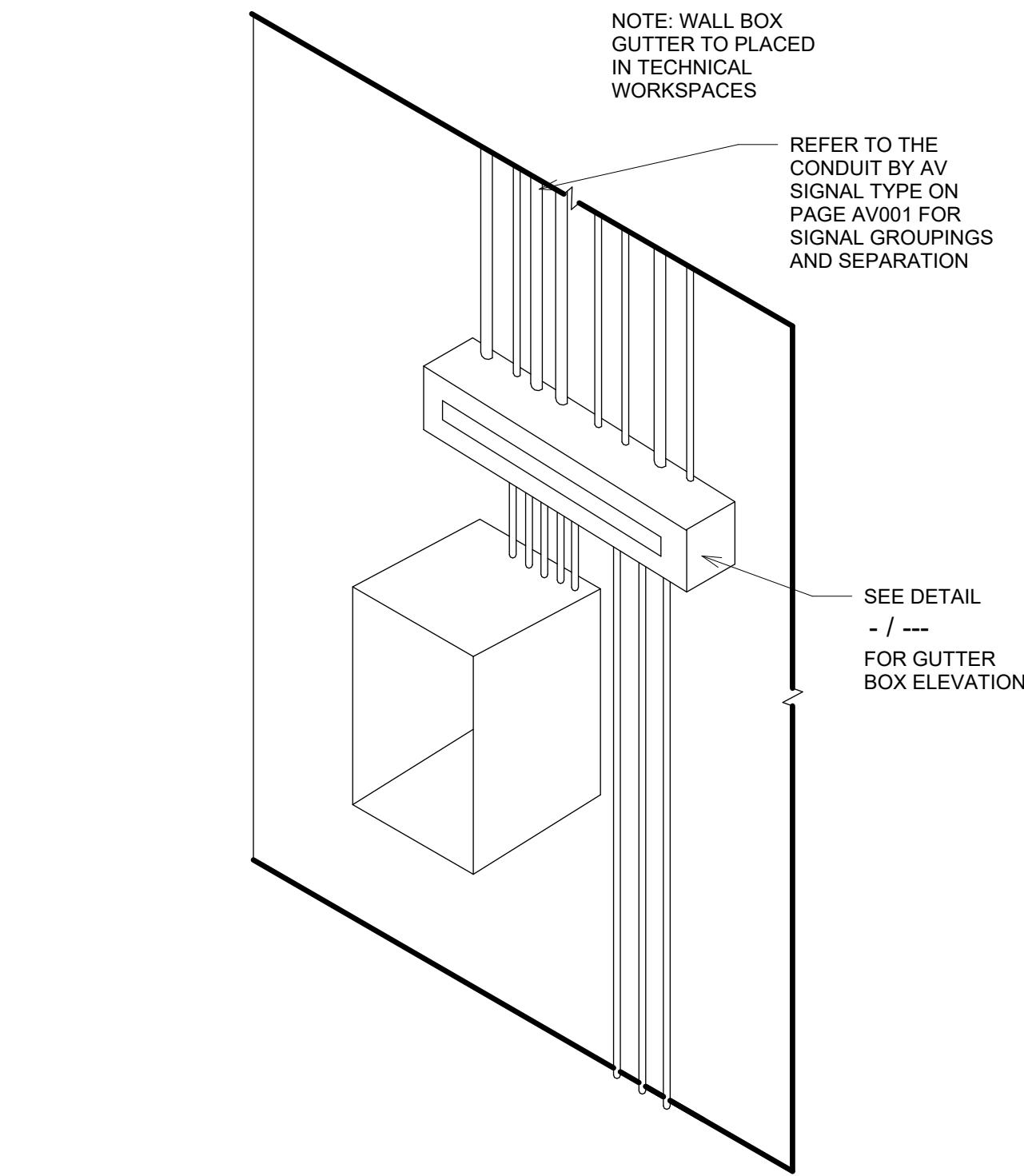
1 AV - CABLE TERMINATION DETAIL
AV014 SCALE: 1 1/2" = 1'-0"



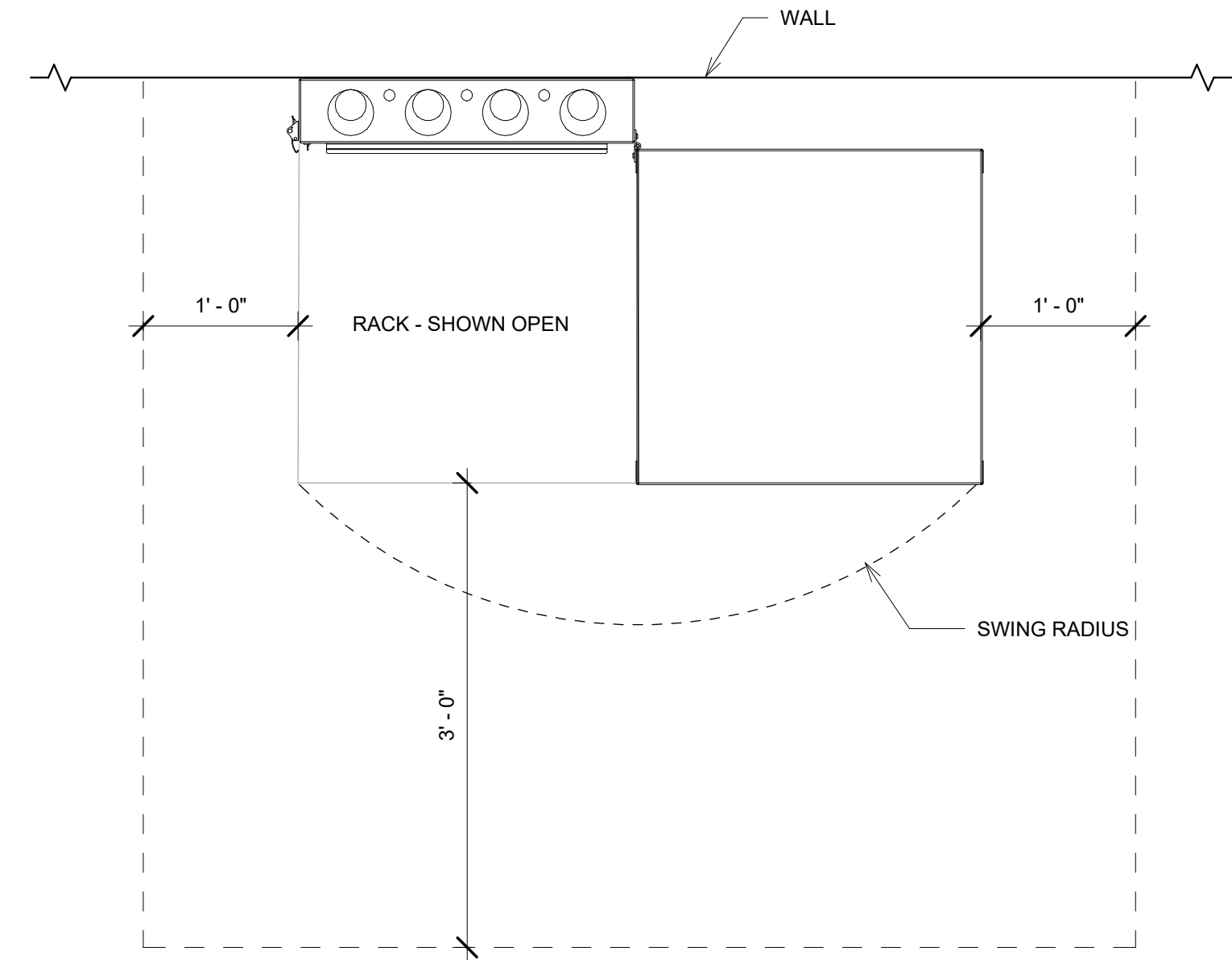
2 SINGLE CAMERA NICHE - SURFACE MOUNTED
AV014 SCALE: 3" = 1'-0"



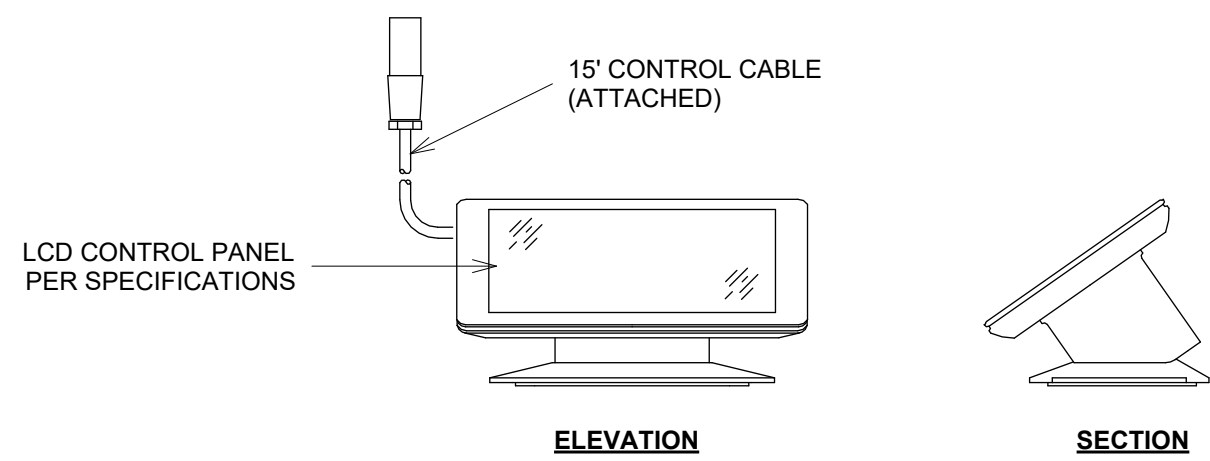
3 AV ANTENNA - ARCHITECTURAL STYLE ANTENNA
AV014 SCALE: 6" = 1'-0"



4 AV RACK - TYPICAL WALL RACK CONDUIT ENTRY
AV014 SCALE: 3" = 1'-0"

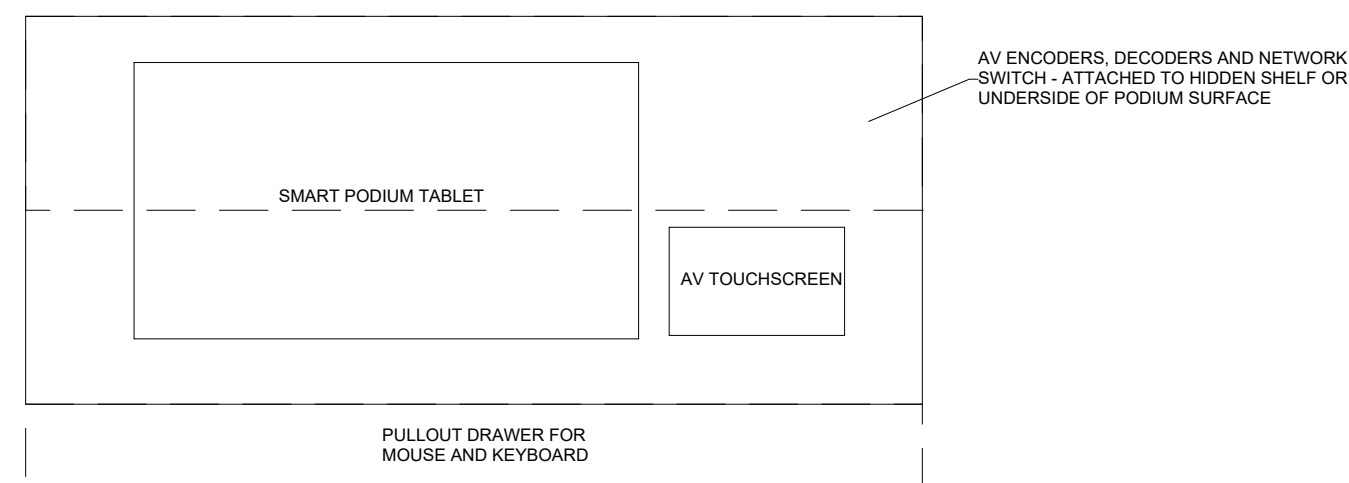


5 AV RACK - WALL CLEARANCES
AV014 SCALE: 1" = 1'-0"



NOTE: CONFIRM ALL CUSTOM LABELS

6 AV TOUCH PANEL - PORTABLE HOUSE PANEL
AV014 SCALE: 3" = 1'-0"



7 SUGGESTED PODIUM LAYOUT
AV014 SCALE: 1 1/2" = 1'-0"

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AV014

REFER TO AUDIO VIDEO BACK BOX SCHEDULE FOR QUANTITIES OF EACH TERMINATION ID

- NOTES:
- AV CABLING CONDUIT HAS STRICT REQUIREMENTS REGARDING SIGNAL TYPES ALLOWED TO SHARE CONDUITS, SEPARATION OF CONDUITS FROM OTHER TYPES, AND OTHER SOURCES OF POTENTIAL INTERFERENCE, SUCH AS POWER CONDUITS, AND CONDUIT SIZING. THE CONDUIT SIZE SCHEDULE SHOWS THE QUANTITY, TYPES, AND SIZE OF CONDUIT NEEDED TO BRING CABLING TO EACH PARTICULAR TERMINATION BACK BOX AND PANEL. THE TERMINATION AND CONDUIT SIZE SCHEDULES ALSO INDICATE THE INTENDED DESTINATION OF EACH TYPE OF CABLING (CONDUIT) LISTED.
 - ALL OF THIS INFORMATION IS PROVIDED SO THAT THE ELECTRICAL ENGINEER CAN PROVIDE A PROPER CONDUIT SYSTEM DESIGN TO SUPPORT THE AV SYSTEMS CABLING. IT IS IMPORTANT TO NOTE THAT IT IS NOT THE INTENTION THAT EACH CONDUIT SHOULD HOME RUN TO ITS DESTINATION. THIS IS OFTEN IMPOSSIBLE TO DO IN THE SPACE ALLOWED AND IS A VERY EXPENSIVE WAY TO PROVIDE CONDUIT FOR THE AV SYSTEMS. CONDUITS OF LIKE SIGNAL GROUPS (INDICATED AS GROUPS 1 THROUGH 6 IN THE SCHEDULES) MAY BE BROUGHT TOGETHER AT A JUNCTION BOX AND THEN A SINGLE LARGER CONDUIT CAN RUN FROM THERE TO THE DESTINATION(S). THIS IS A MORE EFFICIENT AND COST-EFFECTIVE WAY TO DESIGN A CONDUIT SYSTEM FOR THE AV CABLING. ALSO IMPORTANT TO NOTE, THE JUNCTION BOXES MUST BE SEPARATED BY SIGNAL GROUP AS WELL SO THAT ONLY ONE SIGNAL GROUP IS IN EACH JUNCTION BOX. DIVIDERS ARE NOT ALLOWED.

AUDIO VIDEO CONDUIT SCHEDULE					
SIGNAL GROUP	WIRE QTY	DESTINATION	MIN CONDUIT SIZE		NOTES
HSCP					
V	3	AMRK	3/4"		
HSLM					
V	3	AMRK	3/4"		
LNHS					
V	2	AMRK	3/4"		
STAN					
IV	3	AMRK	3/4"		
V	3	AMRK	3/4"		
STCP					
V	3	AMRK	3/4"		
STLD					
V	3	AMRK	3/4"		
STNJ					
V	4	AMRK	1"		
VI		AMRK	2"		

AUDIO VIDEO TERMINATION SCHEDULE					
SIGNAL GROUP		CODE	WIRE QTY	DESTINATION	TOTAL SPARE REQUIREMENT
HSCP					
V	STP	2	AMRK	1	
HSLM					
V	STP	2	AMRK	1	
LNHS					
V	STP	1	AMRK	1	
STAN					
IV	ANTS	2	AMRK	1	
V	STP	2	AMRK	1	
STCP					
V	STP	2	AMRK	1	
STLD					
V	STP	2	AMRK	1	
STNJ					
V	60S2	1	AMRK	0	
V	STP	2	AMRK	1	
VI	COND2	0	AMRK		

AUDIO VIDEO IT LOCATION SCHEDULE	
TERMINATION ID	DATA QTY
AMRK	4
STNJ	2

AUDIO VIDEO DISPLAY SCHEDULE			
TERMINATION ID	COUNT	TYPE	ELEVATION
STLD			
STLD	1	DVLED SCREEN 1.5MM	4' - 11"

70V SPEAKER ZONING SCHEDULE		
ZONE	TERM ID	QTY
LNHS		
HS	LNHS	12

NOTE: REFER TO AUDIO VIDEO BACK BOX SCHEDULE FOR QUANTITIES OF EACH TERMINATION ID

NOTE:

MOST OF THE EQUIPMENT, WITH FEW EXCEPTIONS, WILL REQUIRE ISOLATED GROUND TECHNICAL POWER. PLEASE SEE THE ADVISORY AV ISOLATED GROUND POWER SKETCH FOR USE AS A GUIDE IN DESIGNING THE AV ISOLATED GROUND POWER SYSTEM. THE SYSTEM WILL REQUIRE THE USE OF A K-13 RATED, DOUBLE-SHIELDED, COPPER WOUND, GROUND ISOLATION TRANSFORMER. USE OF A HARMONIC MITIGATING TRANSFORMER WITH ISOLATED GROUND CAN ALSO BE ALLOWED. EATON K-FACTOR OR SIMILAR FOR K-13 RATED TRANSFORMERS AND HAMMOND POWER SYSTEMS HPS SENTINEL SERIES OR SIMILAR FOR HARMONIC MITIGATING TRANSFORMERS ARE ACCEPTABLE.

AUDIO VIDEO POWER SCHEDULE							
TERMINATION ID	POWER ID	CIRCUIT QTY	CIRCUIT PHASE	VOLTS	AMPS	AV RECEPTACLE QTY	AV RECEPTACLE TYPE
AMRK							
AMRK	NON-AVIG	2	1PH	120V	20A	1	JBOX
STLD							
STLD	NON-AVIG	1	2PH	208V	20A	1	True1
STNJ							
STNJ	NON-AVIG	1	1PH	120V	20A	1	DUPLEX

AUDIO VIDEO BACK BOX SCHEDULE					
TERMINATION ID	FUNCTION	QTY	BOX SIZE	ELEVATION FROM LEVEL	KEYNOTE
AMRK	AMP RACK	1	RACK	0' - 0"	SEE RACK ELEVATION
HSCP	HOUSE PTZ CAMERA	1	6X6X4	9' - 0"	CONFIRM THAT THERE IS A CLEAR CAMERA VIEW
HSLM	HOUSE LIVE MIC	4	CEILING MICROPHONE	11' - 7"	BOTTOM PLANE OF MICROPHONE MUST BE COMPLETELY BELOW AND CLEAR OF ALL CEILING ELEMENTS
LNHS	HOUSE NETWORK LOUDSPEAKER	12	CEILING SPEAKER	17' - 5"	BOTTOM PLANE OF SPEAKER SHOULD BE WITHIN 2 INCHES OF THE BOTTOM OF ADJACENT OF CEILING ELEMENTS
STAN	STAGE ANTENNA	1	6X6X4	13' - 0"	
STCP	STAGE PTZ CAMERA	1	6X6X4	7' - 2"	
STLD	STAGE LED WALL	4	6X6X4	8' - 2"	
STNJ	STAGE NETWORK JACK	2	6X8X4	2' - 0"	

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REFER TO NOTE 3 AND THE
WORK SCOPE
SPECIFICATION TABLE ON
AV001



Architecture	Engineering
Interior Design	Industrial

TELEPHONE **701.775.3000**
3100 DeMers Avenue, Grand Forks ND 58201

www.eapc.net

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PROJECT DESCRIPTION
Project Description

CITY MINOT
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ISSUE DATES

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AV SCHEDULES

AV031

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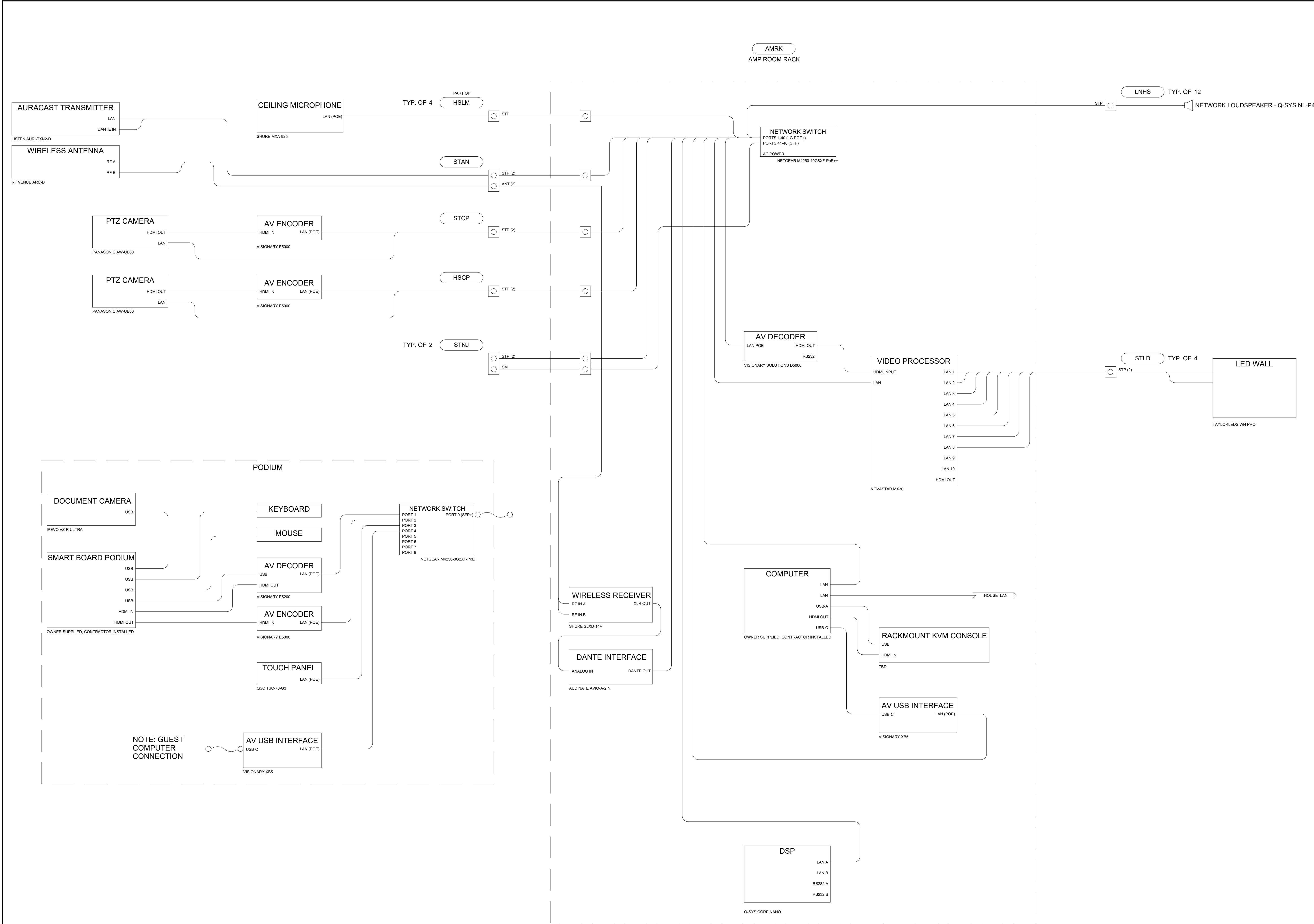
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AV SINGLE LINES

AV051



AUDIO VIDEO BACK BOX SCHEDULE PER SHEET					
TERMINATION ID	FUNCTION	QTY	BOX SIZE	ELEVATION FROM LEVEL	KEYNOTE
AMRK	AMP RACK	1	RACK	0' - 0"	SEE RACK ELEVATION
HSCP	HOUSE PTZ CAMERA	1	6X6X4	9' - 0"	CONFIRM THAT THERE IS A CLEAR CAMERA VIEW
STAN	STAGE ANTENNA	1	6X6X4	13' - 0"	
STCP	STAGE PTZ CAMERA	1	6X6X4	7' - 2"	
STNJ	STAGE NETWORK JACK	2	6X8X4	2' - 0"	

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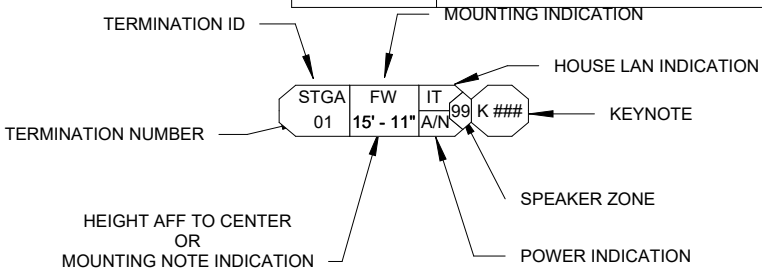
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AV001

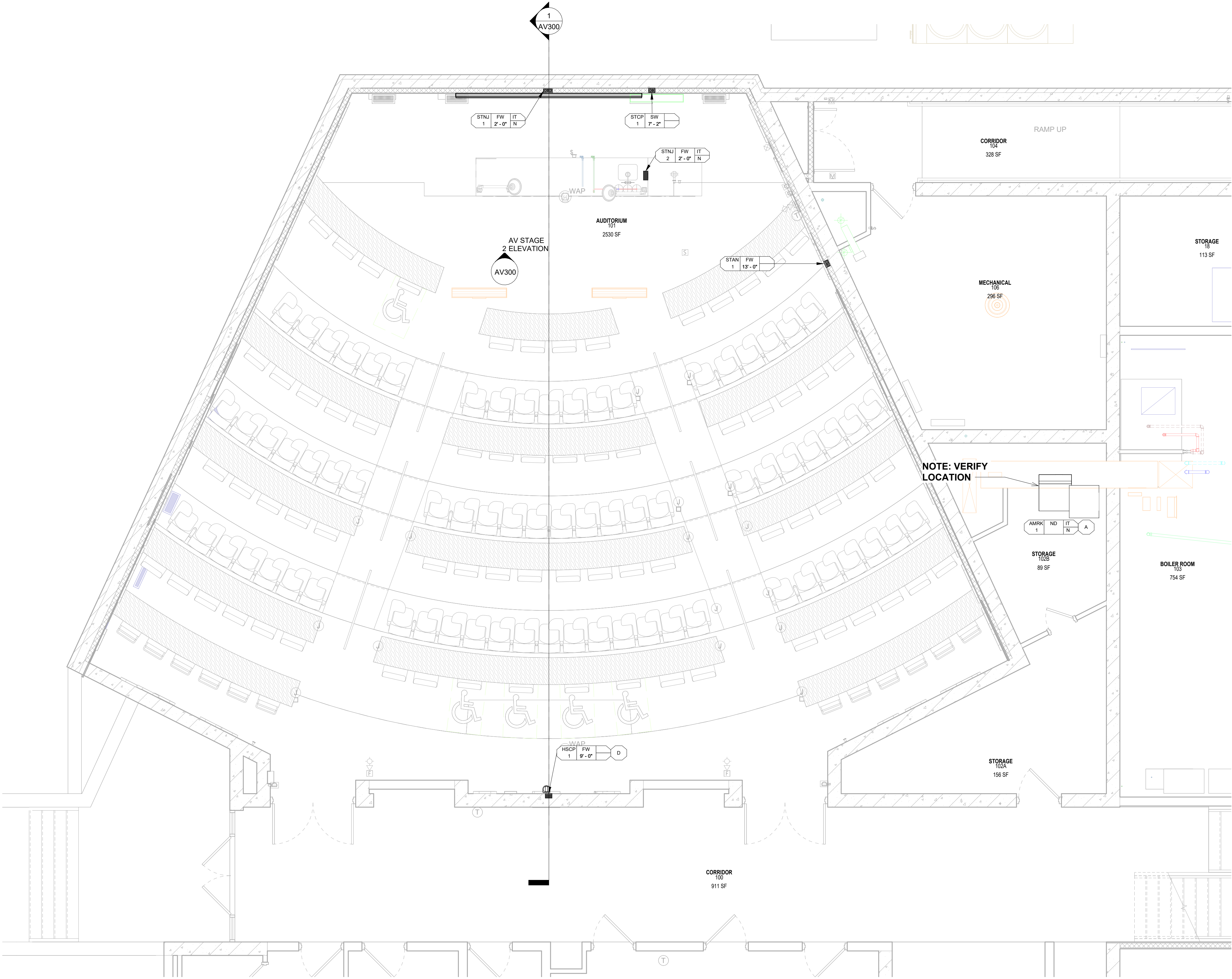
MOUNTING KEY INFO	
FC	MOUNT FLUSH IN CEILING
FF	MOUNT FLUSH IN FLOOR
FW	MOUNT FLUSH IN WALL
SC	MOUNT ON CEILING SURFACE
SF	MOUNT FREE STANDING ON FLOOR
SW	MOUNT ON WALL SURFACE
MS	MOUNT TO STRUCTURE
ND	REFER TO NOTE OR DETAIL DRAWING

AUDIO VIDEO KEY SCHEDULE	
KEY	NOTE

A	SEE RACK ELEVATION
D	CONFIRM THAT THERE IS A CLEAR CAMERA VIEW



TERMINATION LEGEND



1 AV FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

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DRAWING TITLE
AV FLOOR PLAN

AV101

AUDIO VIDEO BACK BOX SCHEDULE PER SHEET					
TERMINATION ID	FUNCTION	QTY	BOX SIZE	ELEVATION FROM LEVEL	KEYNOTE
HSLM	HOUSE LIVE MIC	4	CEILING MICROPHONE	11' - 7"	BOTTOM PLANE OF MICROPHONE MUST BE COMPLETELY BELOW AND CLEAR OF ALL CEILING ELEMENTS
LNHS	HOUSE NETWORK LOUDSPEAKER	12	CEILING SPEAKER	17' - 5"	BOTTOM PLANE OF SPEAKER SHOULD BE WITHIN 2 INCHES OF THE BOTTOM OF ADJACENT OF CEILING ELEMENTS
STLD	STAGE LED WALL	4	6X6X4	8' - 2"	

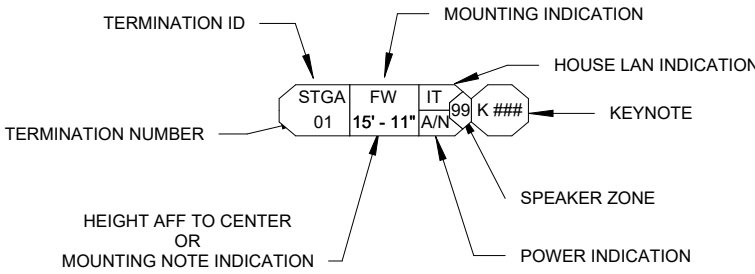
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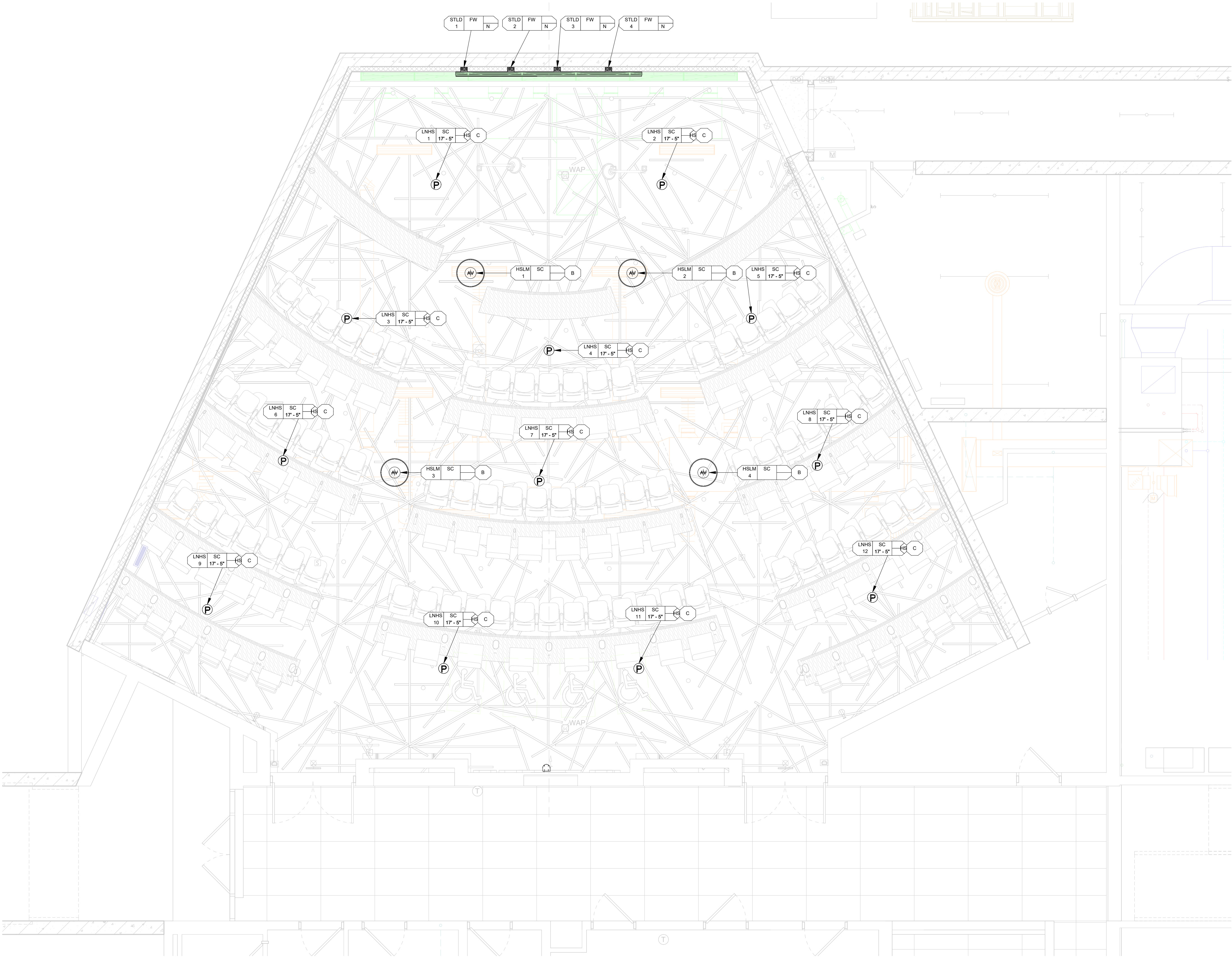
REFER TO NOTE 3 AND THE
WORK SCOPE
SPECIFICATION TABLE ON
AV001

MOUNTING KEY INFO	
FC	MOUNT FLUSH IN CEILING
FF	MOUNT FLUSH IN FLOOR
FW	MOUNT FLUSH IN WALL
SC	MOUNT ON CEILING SURFACE
SF	MOUNT FREE STANDING ON FLOOR
SW	MOUNT ON WALL SURFACE
MS	MOUNT TO STRUCTURE
ND	REFER TO NOTE OR DETAIL DRAWING

AUDIO VIDEO KEY SCHEDULE	
KEY	NOTE
B	BOTTOM PLANE OF MICROPHONE MUST BE COMPLETELY BELOW AND CLEAR OF ALL CEILING ELEMENTS
C	BOTTOM PLANE OF SPEAKER SHOULD BE WITHIN 2 INCHES OF THE BOTTOM OF ADJACENT OF CEILING ELEMENTS



TERMINATION LEGEND



1 AV FIRST FLOOR RCP
SCALE: 1/4" = 1'-0"

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AV REFLECTED CEILING
PLAN

AV151

Revit Version: 2025
Plot Date: 10/23/2025 11:59:41 AM

AUDIO VIDEO BACK BOX SCHEDULE PER SHEET					
TERMINATION ID	FUNCTION	QTY	BOX SIZE	ELEVATION FROM LEVEL	KEYNOTE
HSCP	HOUSE PTZ CAMERA	1	6X6X4	9' - 0"	CONFIRM THAT THERE IS A CLEAR CAMERA VIEW BOTTOM PLANE OF MICROPHONE MUST BE COMPLETELY BELOW AND CLEAR OF ALL CEILING ELEMENTS
HSLM	HOUSE LIVE MIC	2	CEILING MICROPHONE	11' - 7"	
LNHS	HOUSE NETWORK LOUDSPEAKER	7	CEILING SPEAKER	17' - 5"	BOTTOM PLANE OF SPEAKER SHOULD BE WITHIN 2 INCHES OF THE BOTTOM OF ADJACENT OF CEILING ELEMENTS
STCP	STAGE PTZ CAMERA	1	6X6X4	7' - 2"	
STLD	STAGE LED WALL	4	6X6X4	8' - 2"	
STNJ	STAGE NETWORK JACK	2	6X8X4	2' - 0"	

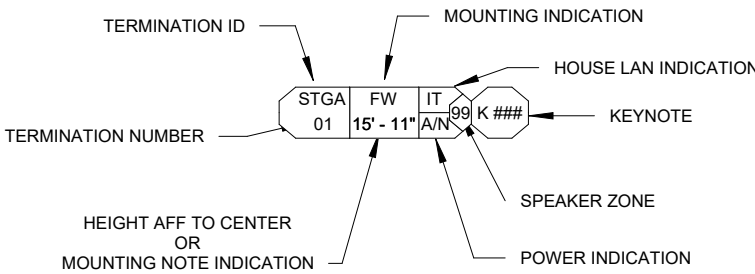
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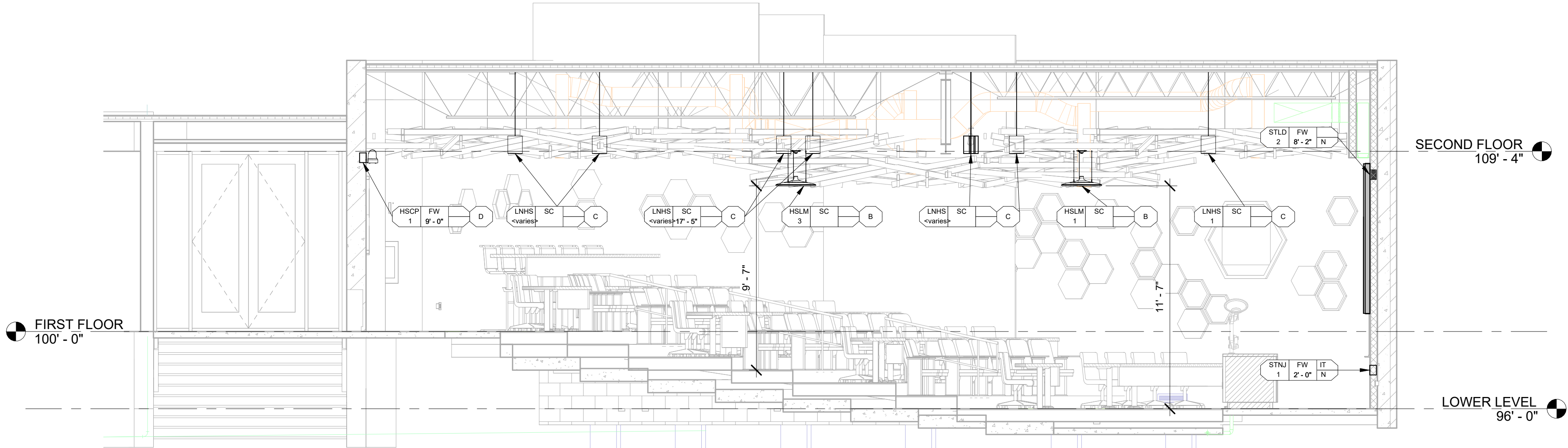
MOUNTING KEY INFO	
FC	MOUNT FLUSH IN CEILING
FF	MOUNT FLUSH IN FLOOR
FW	MOUNT FLUSH IN WALL
SC	MOUNT ON CEILING SURFACE
SF	MOUNT FREE STANDING ON FLOOR
SW	MOUNT ON WALL SURFACE
MS	MOUNT TO STRUCTURE
ND	REFER TO NOTE OR DETAIL DRAWING

AUDIO VIDEO KEY SCHEDULE	
KEY	NOTE

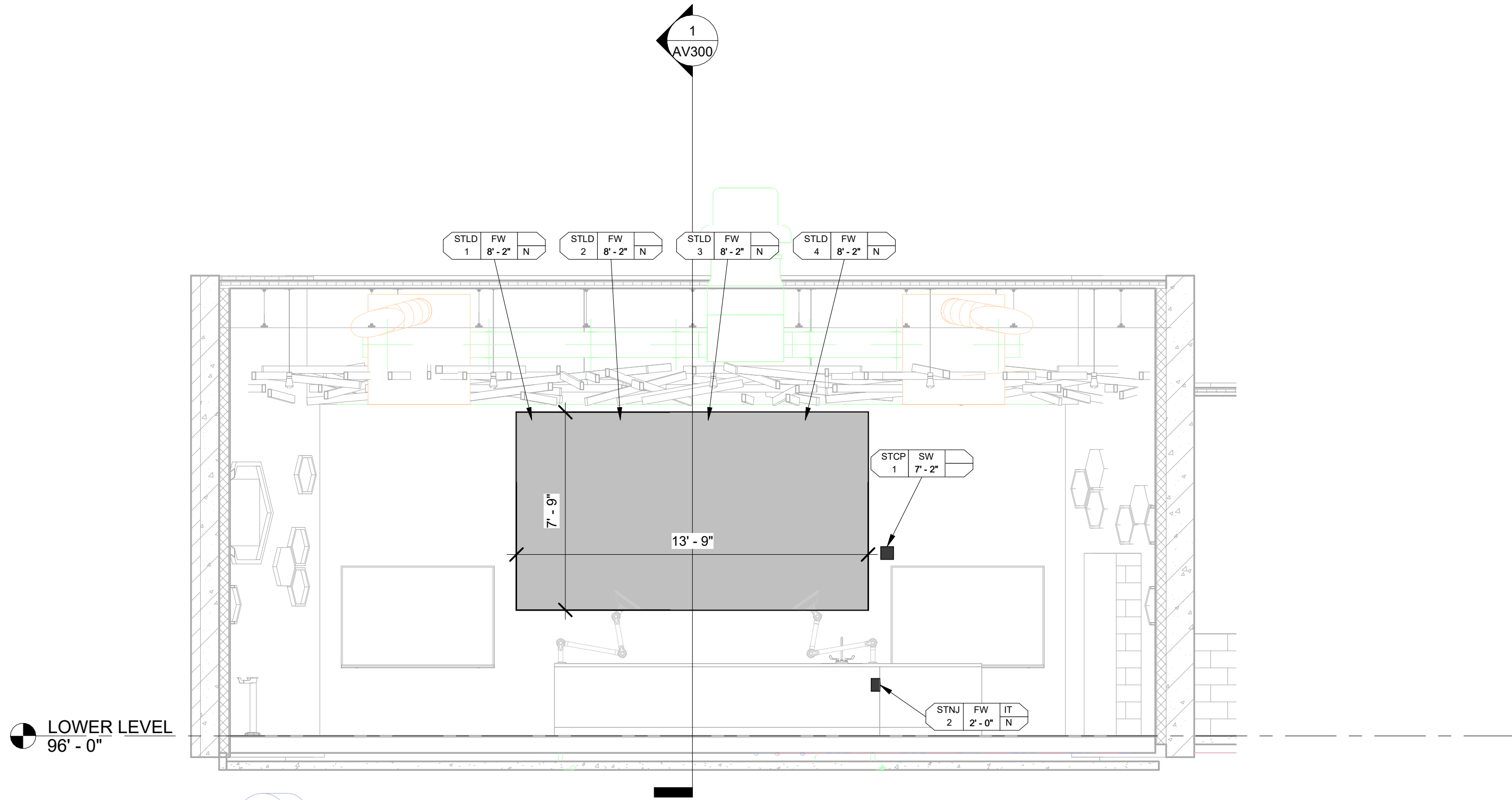
B	BOTTOM PLANE OF MICROPHONE MUST BE COMPLETELY BELOW AND CLEAR OF ALL CEILING ELEMENTS
C	BOTTOM PLANE OF SPEAKER SHOULD BE WITHIN 2 INCHES OF THE BOTTOM OF ADJACENT OF CEILING ELEMENTS
D	CONFIRM THAT THERE IS A CLEAR CAMERA VIEW



TERMINATION LEGEND



1 AV CENTERLINE SECTION
SCALE: 1/4" = 1'-0"



2 AV STAGE ELEVATION
SCALE: 1/4" = 1'-0"

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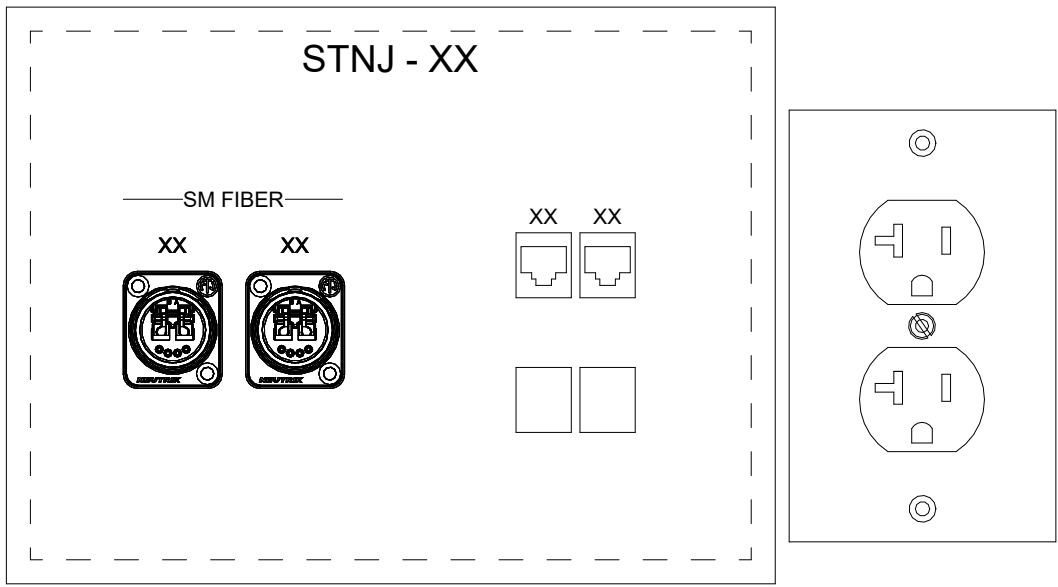
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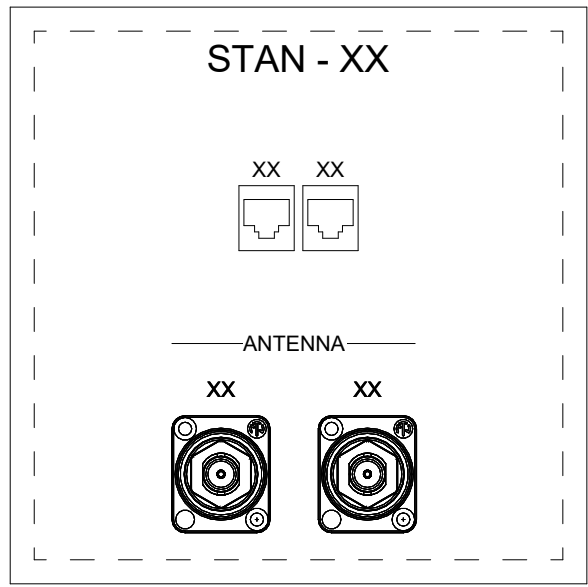
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AV SECTIONS

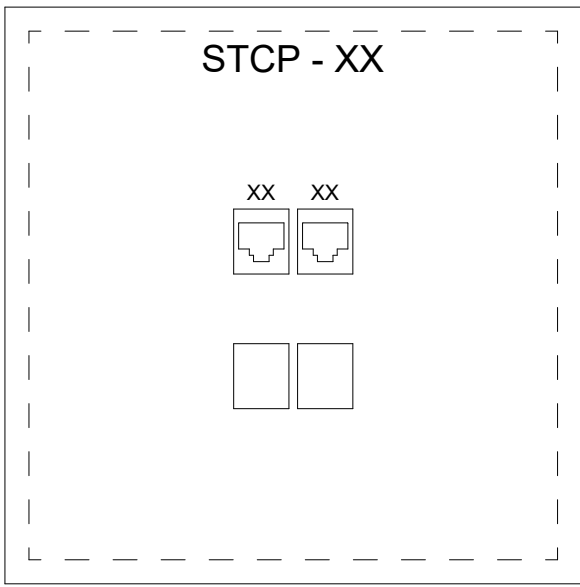
AV300



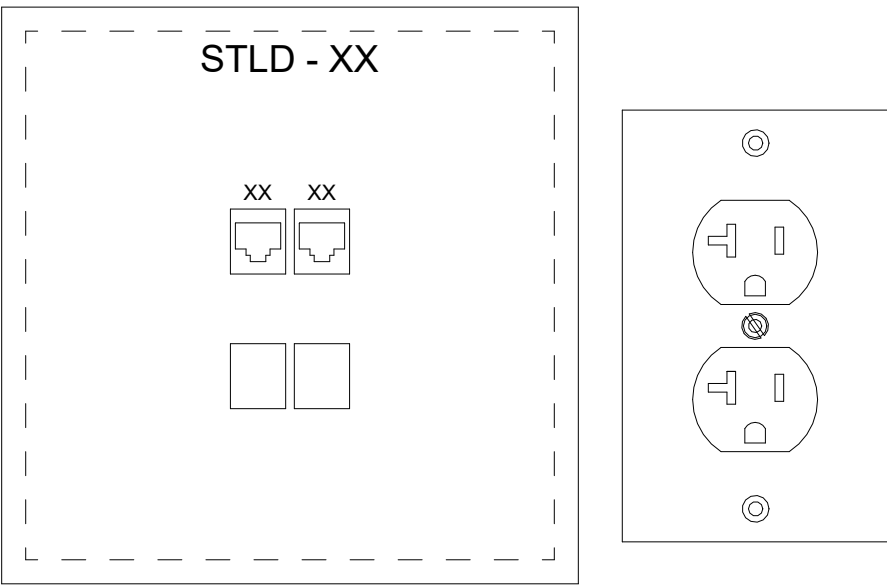
1 PANEL: STNJ - STAGE NETWORK JACK
AV BOX TYPE: 6X8X4
NON-AVIG , DUPLEX , CIRCUIT QTY: 1



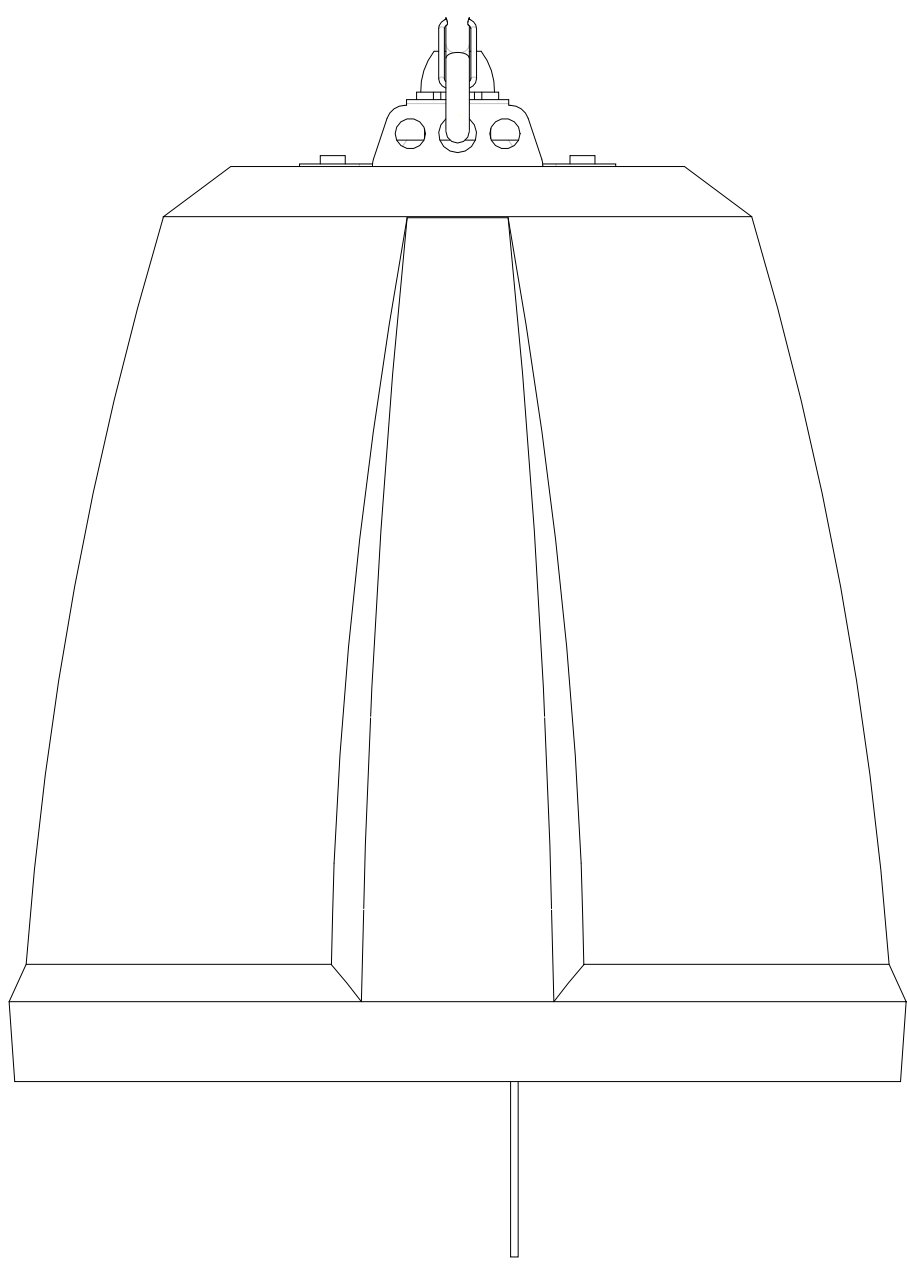
2 PANEL: STAN - STAGE ANTENNA
AV BOX TYPE: 6X6X4



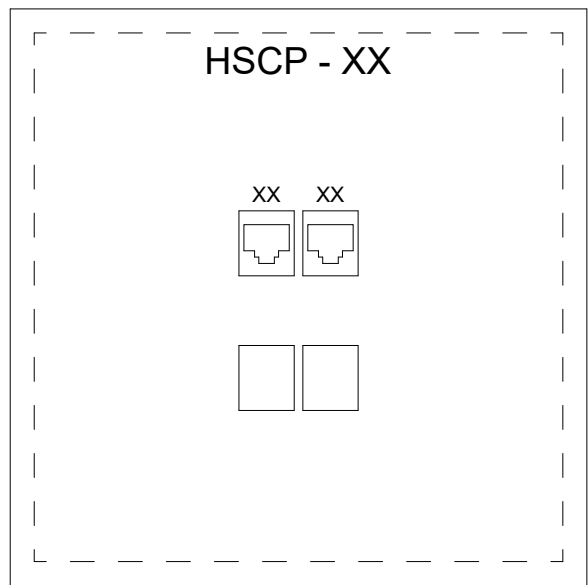
3 PANEL: STCP - STAGE PTZ CAMERA
AV BOX TYPE: 6X6X4



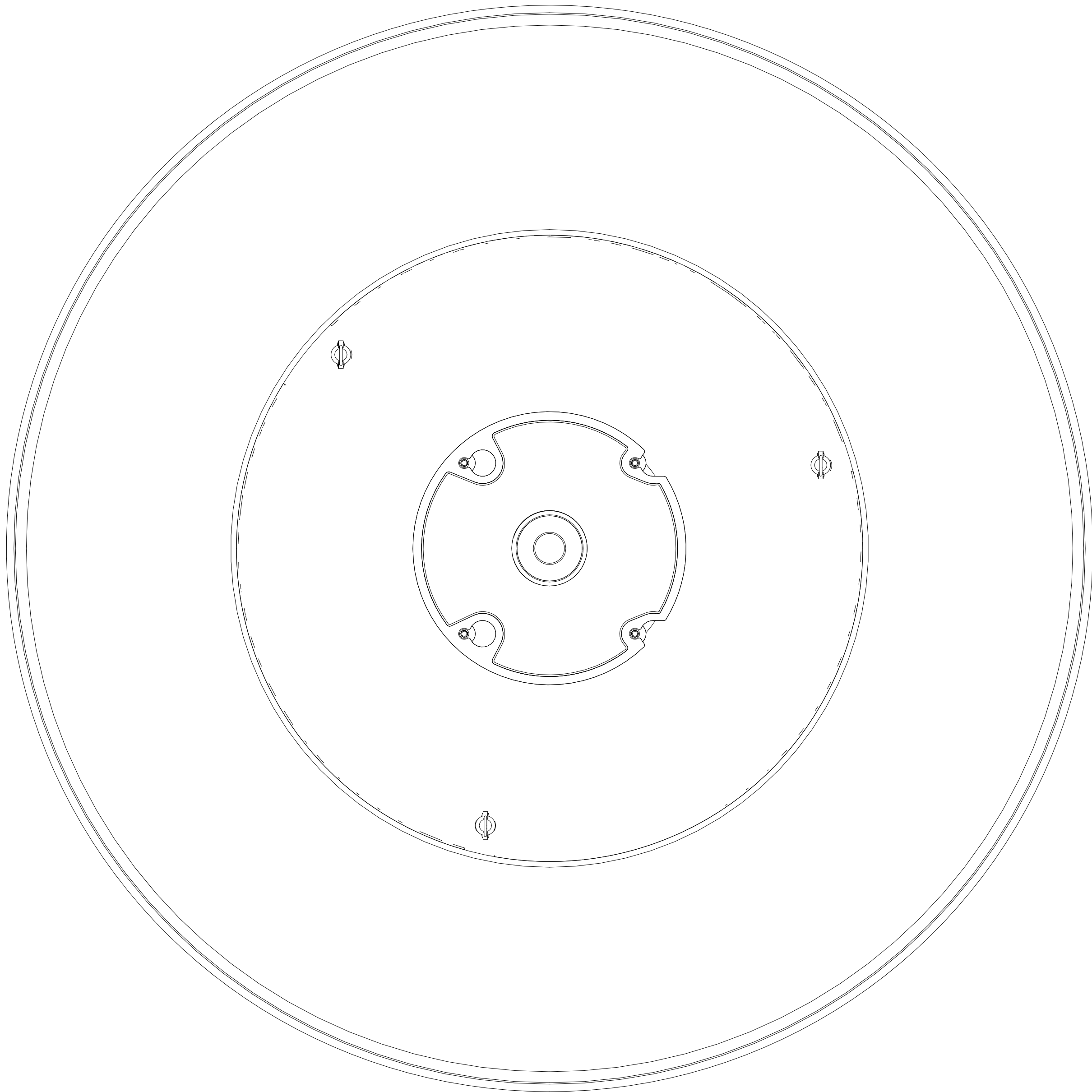
4 PANEL: STLD - STAGE LED WALL
AV BOX TYPE: 6X6X4
NON-AVIG , True1 , CIRCUIT QTY: 1



5 PANEL: LNHS - HOUSE NETWORK LOUDSPEAKER
AV BOX TYPE: CEILING SPEAKER



6 PANEL: HSCP - HOUSE PTZ CAMERA
AV BOX TYPE: 6X6X4



7 PANEL: HSLM - HOUSE LIVE MIC
AV BOX TYPE: CEILING MICROPHONE

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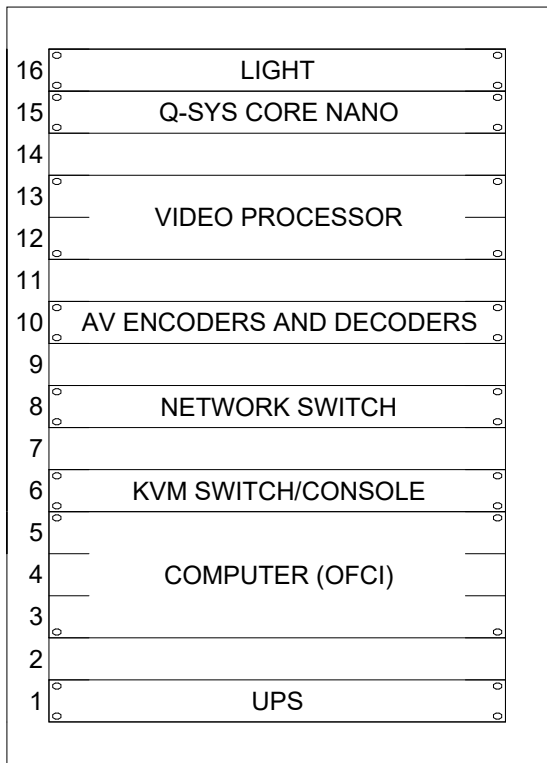
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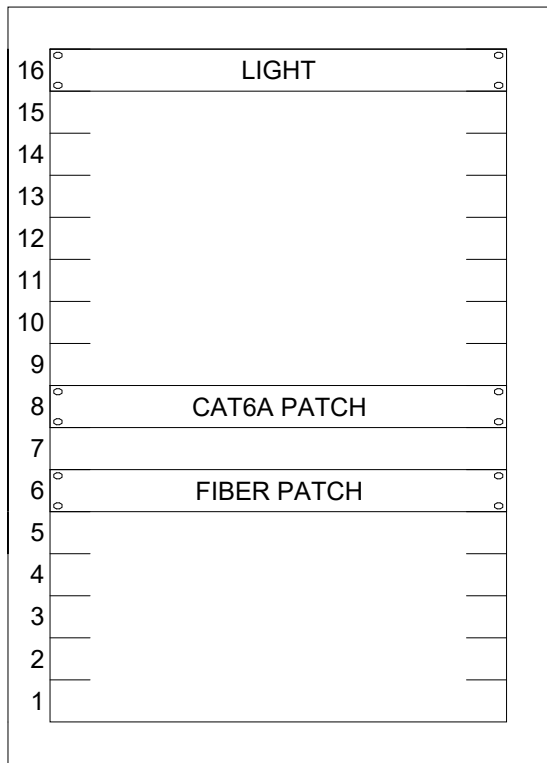
DRAWING TITLE

AV RACK ELEVATIONS

AV571



AMRK-01
AMP RACK (FRONT)



AMRK-01
AMP RACK (REAR)

CATEGORY AND FIBER
PATCHBAYS AS REQUIRED