

INDIAN HILLS BAND & CHORAL REMODEL

CONSTRUCTION DOCUMENTS

MARCH 21, 2025



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ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
CMU	CONCRETE MASONRY UNIT
EIFS	EXTERIOR INSULATED FINISH
EQ	EQUAL
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
O.C.	ON CENTER
SPEC	SPECIFICATION
SIM	SIMILIAR
TYP	TYPICAL
T.O.	TOP OF
B.O.	BOTTOM OF
F.V.	FIELD VERIFY

SYMBOLS LEGEND

ROOM IDENTIFICATION	
NUMBER	ROOM NAME
NUM	ROOM NUMBER
DOOR NUMBER	
XXX	
REFERENCE NOTE	
XXXX	
WINDOW TYPE	
X	
PARTITION WALL TYPE	
XX	
MILLWORK ASSEMBLY TYPE	
MIL XX	
SIGNAGE TYPE	
XX	SEE SIGNAGE DETAILS
INTERIOR ELEVATION	
A1	SHADE INDICATES ELEVATED WALL
A2	ELEVATION NUMBER
A3	SHEET NUMBER
BUILDING SECTION	
SECTION NUMBER	
SHEET NUMBER	
WALL SECTION	
SECTION NUMBER	
SHEET NUMBER	
EXTERIOR ELEVATION	
ELEVATION NUMBER	
SHEET NUMBER	
DETAIL	
DETAIL NUMBER	
SHEET NUMBER	
DETAIL TITLE	
A1	DETAIL SCALE:
REVISION DELTA	
2	REVISION NUMBER

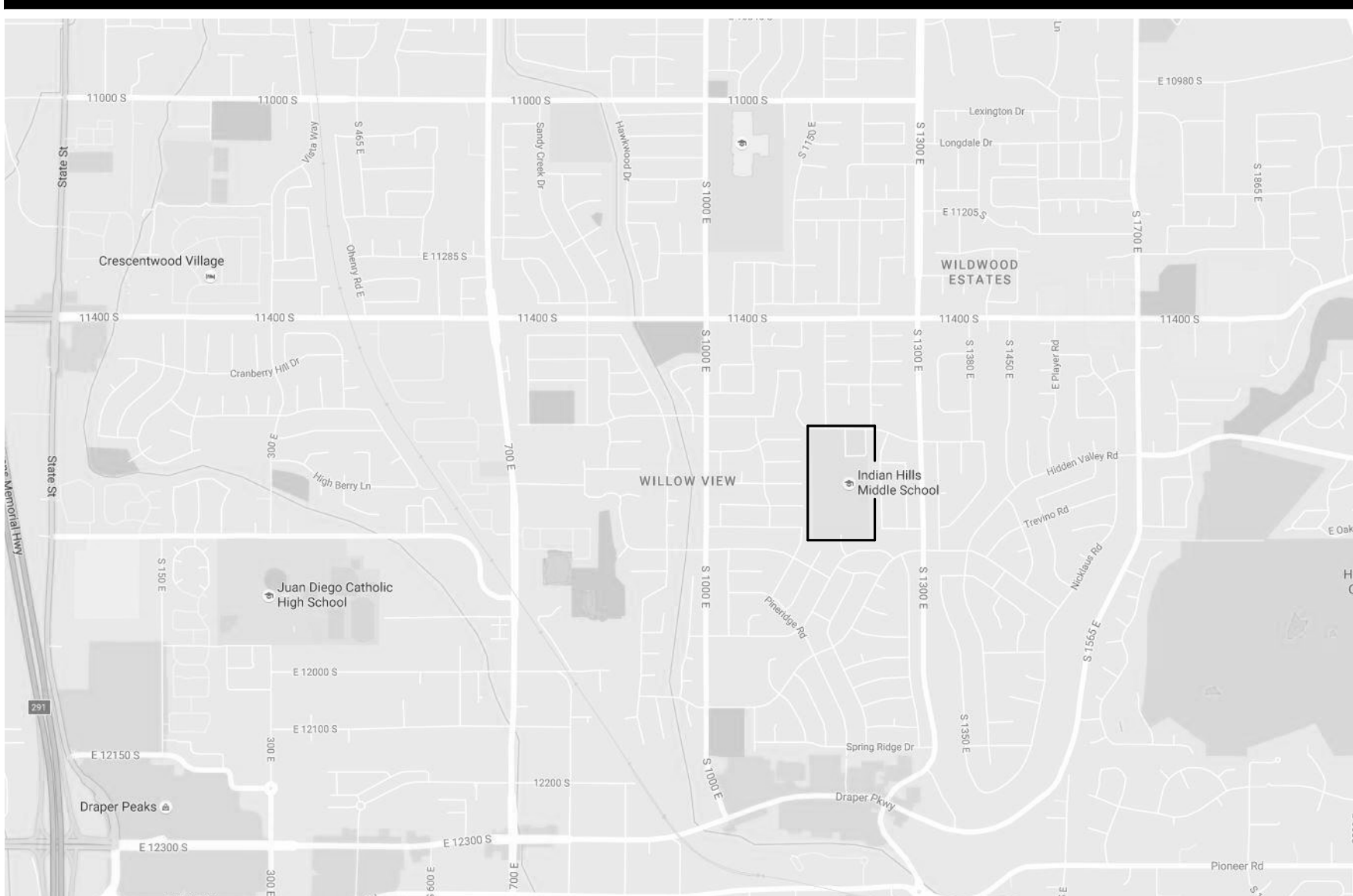
MATERIAL LEGEND

GYPSUM BOARD OR CONCRETE SURFACE	
CONCRETE	
STUD WALL	
GRAVEL	
COMPACTED FILL AND/OR EARTH	
ATLAS BRICK MASONRY	
BATT INSULATION	
RIGID INSULATION	

SITE MAP



VICINITY MAP



PROJECT TEAM

PROJECT ARCHITECT
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801.530.3148

ELECTRICAL ENGINEER
BNA CONSULTING
635 SOUTH STATE STREET
SALT LAKE CITY, UT 84111
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LIFE SAFETY LEGEND

CODE	DESCRIPTION
FB1	FIRE BARRIER - 1 HOUR
FB2	FIRE BARRIER - 2 HOUR
FB3	FIRE BARRIER - 3 HOUR
FP	FIRE PARTITION
FW1	FIRE WALL - 1 HOUR
FW2	FIRE WALL - 2 HOUR
FW3	FIRE WALL - 3 HOUR
SB	SMOKE BARRIER
SP	SMOKE PARTITION

COMMON PATH OF EGRESS

FIRE EXTINGUISHER TRAVEL PATH

1 HOUR FIRE RATED

2 HOUR FIRE RATED

1

LIFE SAFETY ARROW

NUMBER OF OCCUPANTS

FE

PROOFING ON ROOF
STRUCTURE (ROOF DEC)

KEY PLAN

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[illegible]

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[illegible]

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INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - MARCH 21, 2017

DATE	REVISION

PROJECT NUMBER: 2402

LIFE SAFETY PLAN

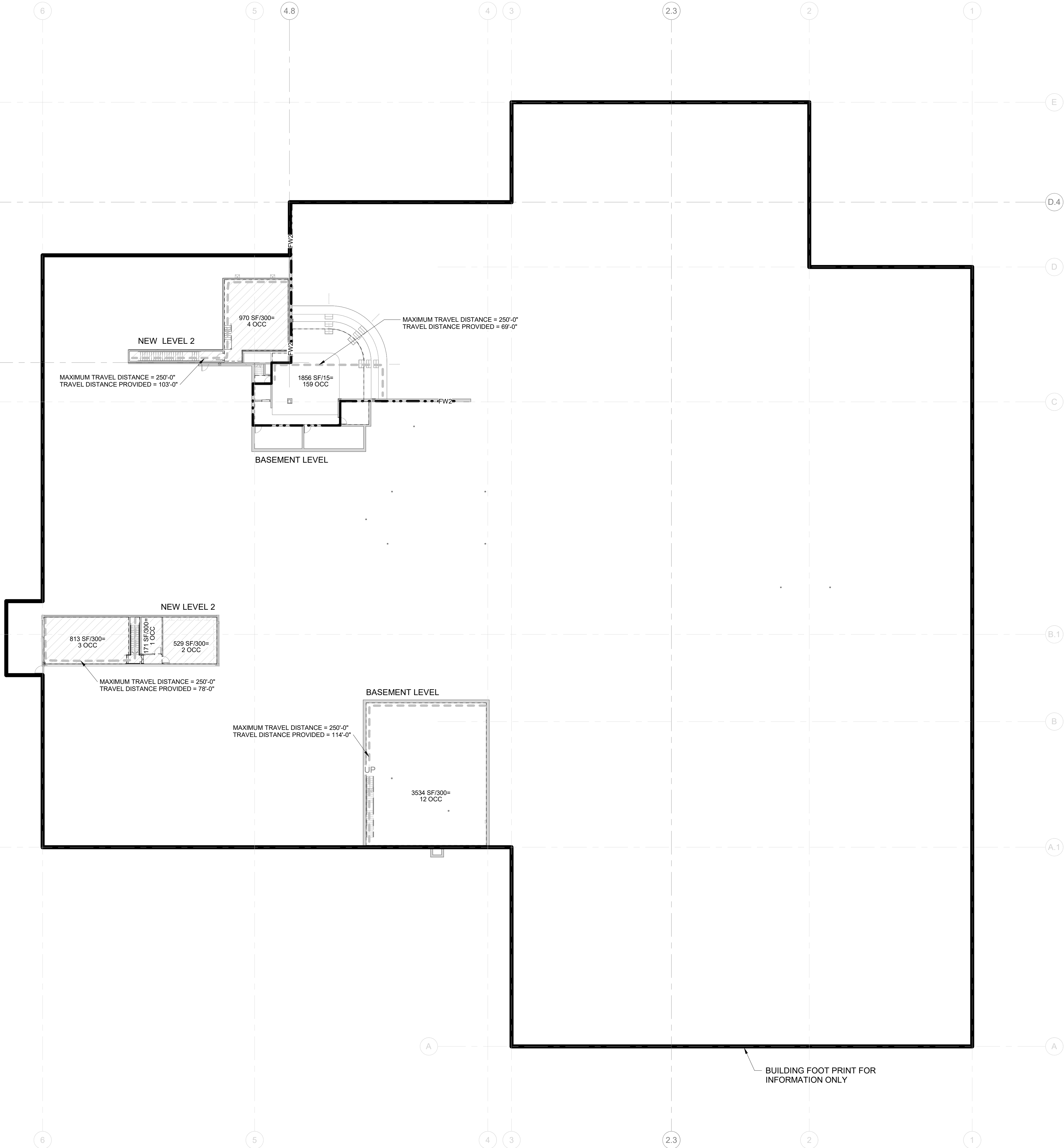
G001

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A1

BASEMENT AND LEVEL 2 - OVERALL LIFE SAFETY PLAN

SCALE: 3/64" = 1'-0"



Applicable Codes				
Code				Year
International Building Code (IBC)				2015
International Mechanical Code (IMC)				2015
International Plumbing Code (IPC)				2015
International Fire Code (IFC)				2012
International Energy Conservation Code (IECC)				2015
National Electrical Code (NEC)				2014
Uniform Code for Building Conservation (UCBC)				2012
ADA Accessibility Guidelines				2009
International Building Code (IBC) Analysis				
Construction Type	II-B			Sect. 602
Building Occupancies	B, E			Sect. 508
Design Building Area	148,893	SF		
Design Building Height (Stories)	2	Stories		
Design Building Height (Ft)	28'-0"			
Allowed Building Area	58,000	SF	Table 506.2	
Allowed Building Height (Stories)	3	Stories	Table 504.4	
Allowed Building Height (Ft)	75	Ft	Table 504.3	
Building Square Footage				
Basement	5,403	SF		
First Floor	142,610	SF		
Level 2	880	SF		
Total	148,893	SF		
Building Occupancy & Construction Type				
Occupancy Of Building	Single	Separated Occupancies	No	Table 508.4
Most Restrictive Occ	E	Construction Type	II-B	Chapter 6
Fire Resistance Ratings for Building Elements - hours (Table 601 - Substitution 903.2)				
Are Fire Sprinklers Required		No		Sect. 903.2
Building Element		Tabular		Substituted
Primary Structural Frame (See Section 202)		0	0	
Bearing Walls - Exterior		0	0	
Bearing Walls - Interior		0	0	
Nonbearing Walls & Partitions - Exterior		See Table 602		
Nonbearing Walls & Partitions - Interior		0	0	
Floor Construction (See Section 202)		0	0	
Roof Construction (See Section 202)		0	0	
FULLY AUTOMATIC SPRINKLER SYSTEM PROVIDED THROUGHOUT ENTIRE SCHOOL				
Shaft Enclosure Fire Rating (Section 713.4)				
Shaft Enclosure Fire Rating		1		Hours
Stories (including Basements)		2		
Exit Width (Section 1005)				
Stairs		Inches Req.		Inches Prov.
Basement		52"		203"
First Floor		N/A		N/A
Mezzanine		36"		40"
Doors		Inches Req.		Inches Prov.
Basement		35"		99"
First Floor		815"		1,122
Mezzanine		32"		66"
Plumbing Fixture Calculations (Section 29)				
Total Women's Fixtures	Occupants	625		Table 2902.1
Water Closets	Required	13	Provided 26	1: 50
Lavatories	Required	13	Provided 21	1: 50
Total Men's Fixtures	Occupants	625		Table 2902.1
Water Closets	Required	13	Provided 18	1: 50
Urinals	Required	-	Provided 16	1: 50
Lavatories	Required	13	Provided 18	1: 50
Total Misc. Fixtures				Table 2902.1
Bathtub/Shower	Required	0	Provided 1	NA 0
Drinking Fountain	Required	13	Provided 16	See Sect. 1109.5
Service Sink	Required	1	Provided 8	

* REQUIRED FIXTURE COUNT BASED ON THE FOLLOWING ASSEMBLY SPACES NOT BEING OCCUPIED CONCURRENT TO TYPICAL SCHOOL OCCUPANCIES: AUDITORIUM, GYMNASIUM, AND COMMONS

REFERENCE NOTES

LIFE SAFETY LEGEND

FB1 → RATED WALL ASSEMBLY CODE

CODE	DESCRIPTION
FB1	FIRE BARRIER - 1 HOUR
FB2	FIRE BARRIER - 2 HOUR
FB3	FIRE BARRIER - 3 HOUR
FP	FIRE PARTITION
FW1	FIRE WALL - 1 HOUR
FW2	FIRE WALL - 2 HOUR
FW3	FIRE WALL - 3 HOUR
SB	SMOKE BARRIER
SP	SMOKE PARTITION

COMMON PATH OF EGRESS

FIRE EXTINGUISHER TRAVEL PATH

1 HOUR FIRE RATED

2 HOUR FIRE RATED

OCCUPANCY AREA BOUNDARY

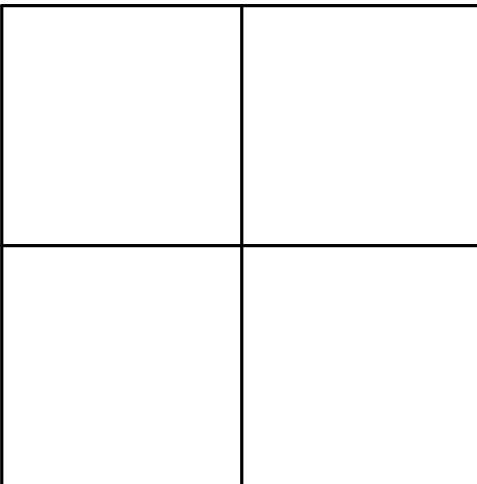
LIFE SAFETY ARROW

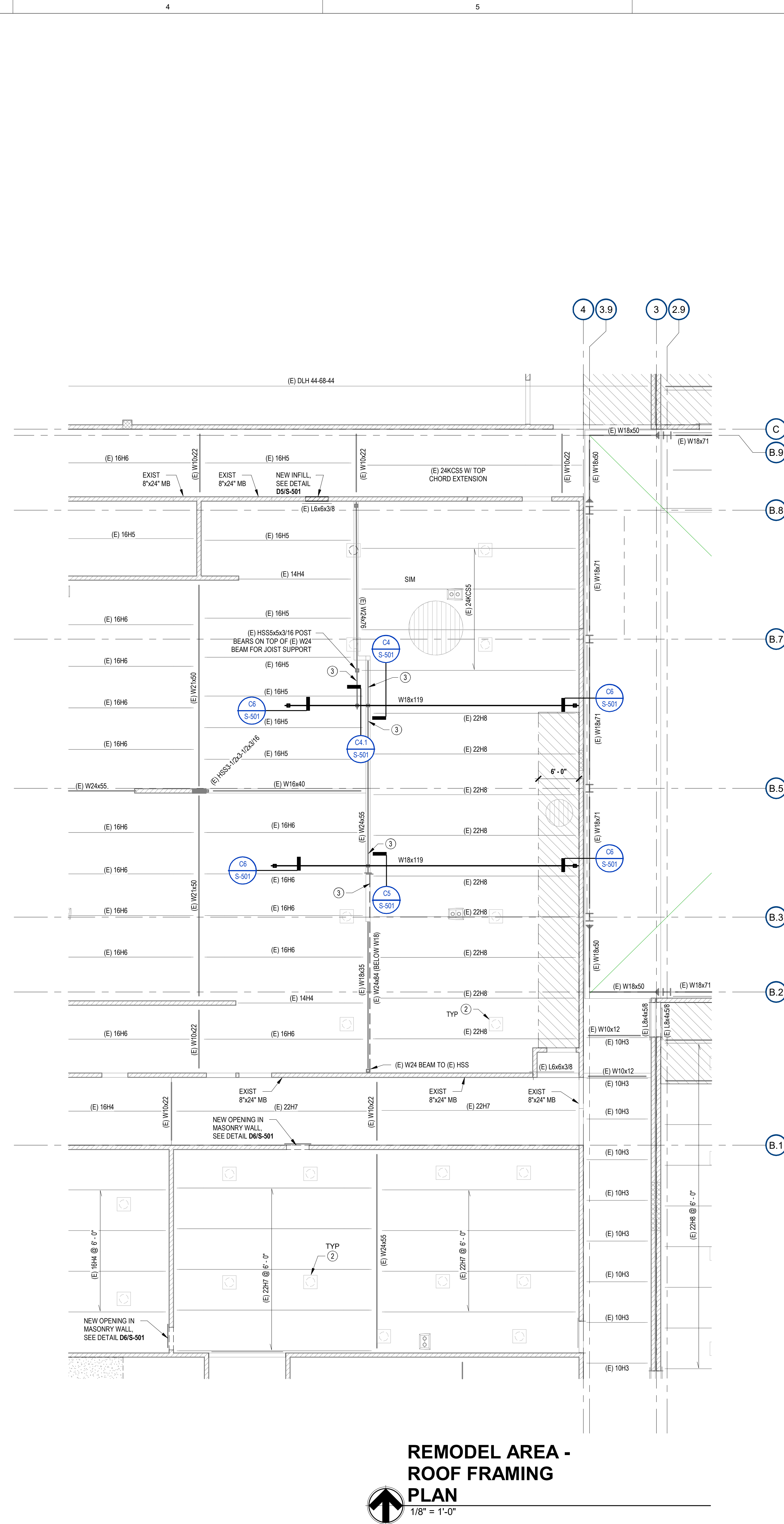
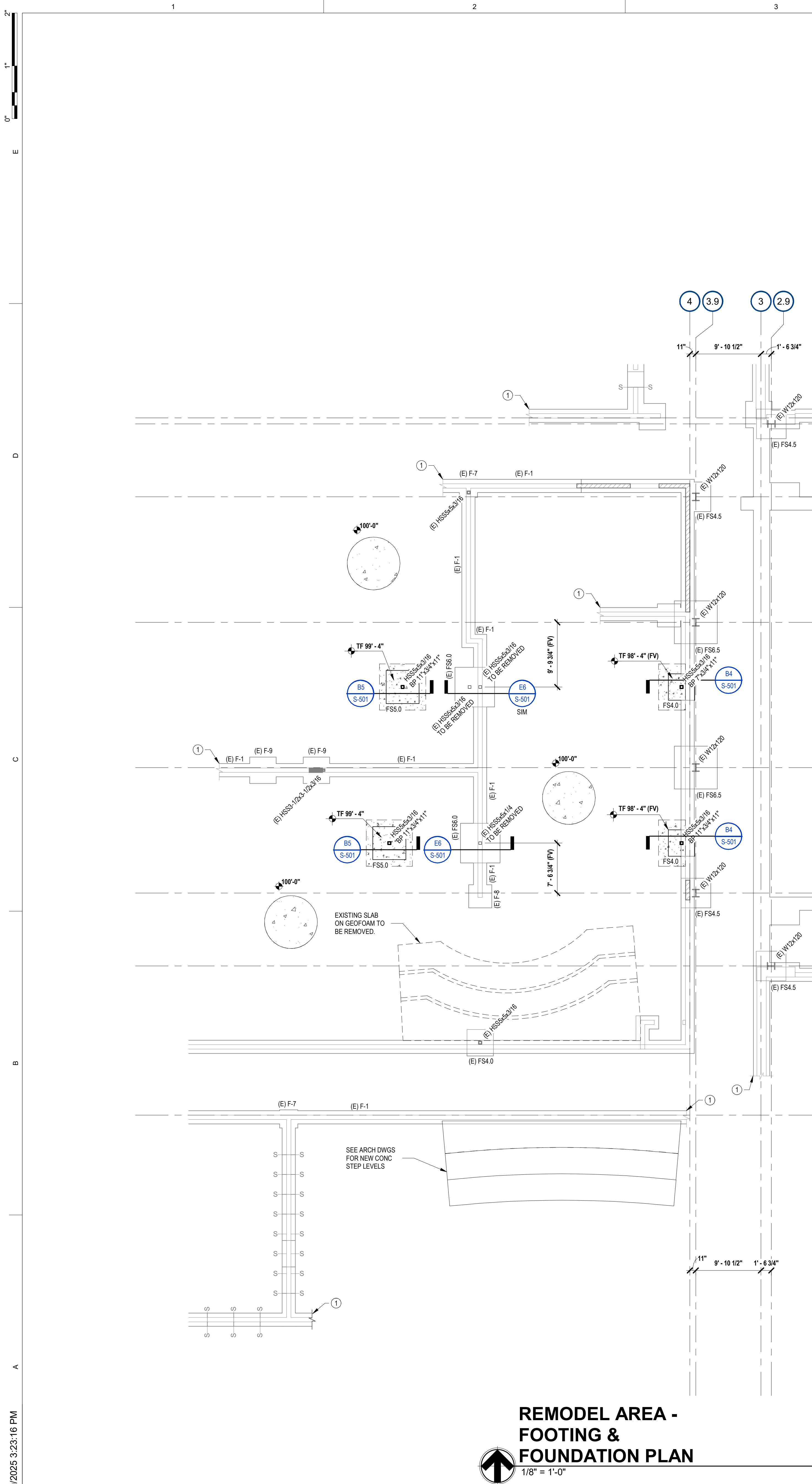
60 → NUMBER OF OCCUPANTS

FE
O
2 HR SPRAY ON FIRE PROOFING ON ROOF STRUCTURE (ROOF DECK AND ROOF JOISTS)


NEW ADDITION

KEY PLAN





PLAN NOTES

- # NUMBERED NOTES BELOW ARE KEYED OF PLAN.
- * SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, TYPICAL.
- A SEE STRUCTURAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.
- B TOP OF CONCRETE SLAB ELEVATION = 100'-0".
UNLESS NOTED THUS: SLOPE UNIFORMLY TO FLOOR DRAINS. 
- C PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN NEW CONCRETE SLAB TO MATCH EXISTING. SEE DETAIL E03001 AND STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
- D CENTER NEW FOOTINGS ON WALLS AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.

PLAN NOTES

E) DENOTES EXISTING STRUCTURE
BASED ON AVAILABLE RECORD DRAWINGS
ALL EXISTING CONDITIONS SHALL BE FIELD
VERIFIED.

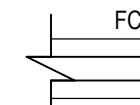
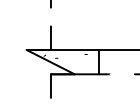

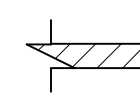

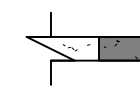
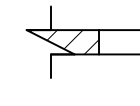
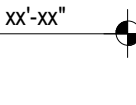
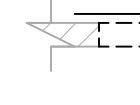

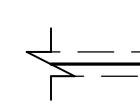

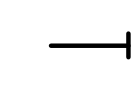
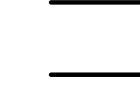
F) [c-x] DETAILS BEAM NUMBER.

G) SEE DETAIL 8065501 WHERE NEW SLAB ON
GRAVELL BRUITS EXISTING. ALL NEW
CONCRETE SLAB ON GRADE SHALL BE 4"
THICK MINIMUM. REINF WITH 6x6 W1.4xW1.4
WWF.

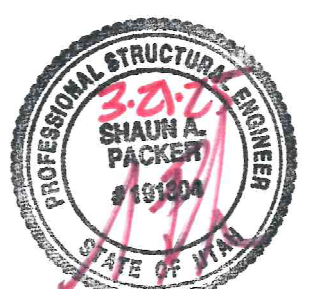
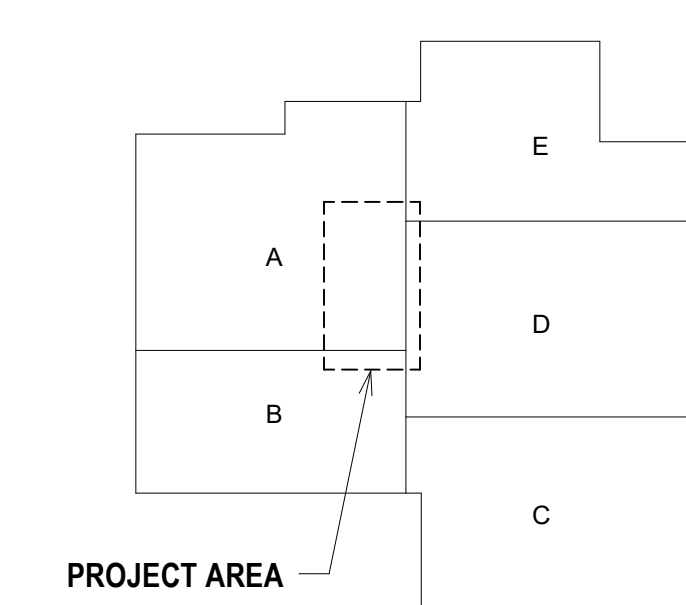
H) SEE DETAIL A315-501 FOR CONCRETE
REINFORCEMENT LAP SPACE LENGTHS.

1 EXISTING FOOTING AND FOUNDATION
CONTINUES BUT IS NOT SHOWN HERE.
2 EXISTING SONOLIGHT DEVICE.
3 SHORE EXISTING BEAMS EACH SIDE OF
NEW BEAM LOCATIONS FOR PLACEMENT
OF NEW BEAMS.

PLAN LEGEND

<p>FCx.x, FSx.x, FRx.x/y</p>	<p>CONTINUOUS FOOTING, SPOT FOOTING, RECTANGULAR FOOTING TYPES RESPECTIVELY. SEE SCHEDULE ON SHEET AS3-501</p>		<p>CONCRETE FOOTING & FDN WALL</p>
<p>S - - - S</p>	<p>CHANGE IN ELEVATION OR STEP IN SLAB. SEE ARCH DWGS FOR EXACT LOCATION</p>		<p>RECESS IN CONCR FDN WALL</p>
	<p>FOOTING STEP</p>		<p>MASONRY WALL</p>
	<p>TOP OF FTG ELEVATION</p>		<p>MASONRY COLUMN IN WALL ABOVE</p>
<p>TF x°-x°</p>	<p>CONCRETE SLAB ON GRADE (4" THICK MIN)</p>		<p>MASONRY BEAM</p>
	<p>STEEL DECK W/ SPAN DIRECTION INDICATED</p>		<p>STEEL LINTEL AT NB WALL OPENING. SEE DETAIL D6S-501</p>
	<p>STEEL COLUMN, WIDE FLANGE, TUBE, PIPE</p>		<p>WALL ABOVE BEAM</p>
	<p>BEAM SPLICE</p>		<p>MOMENT CONNECTION</p>
<p>□ ○</p>	<p>BEAM FRAMING OVER COLUMN</p>		<p>JOIST, TRUSS, Rafter OR PURLIN</p>

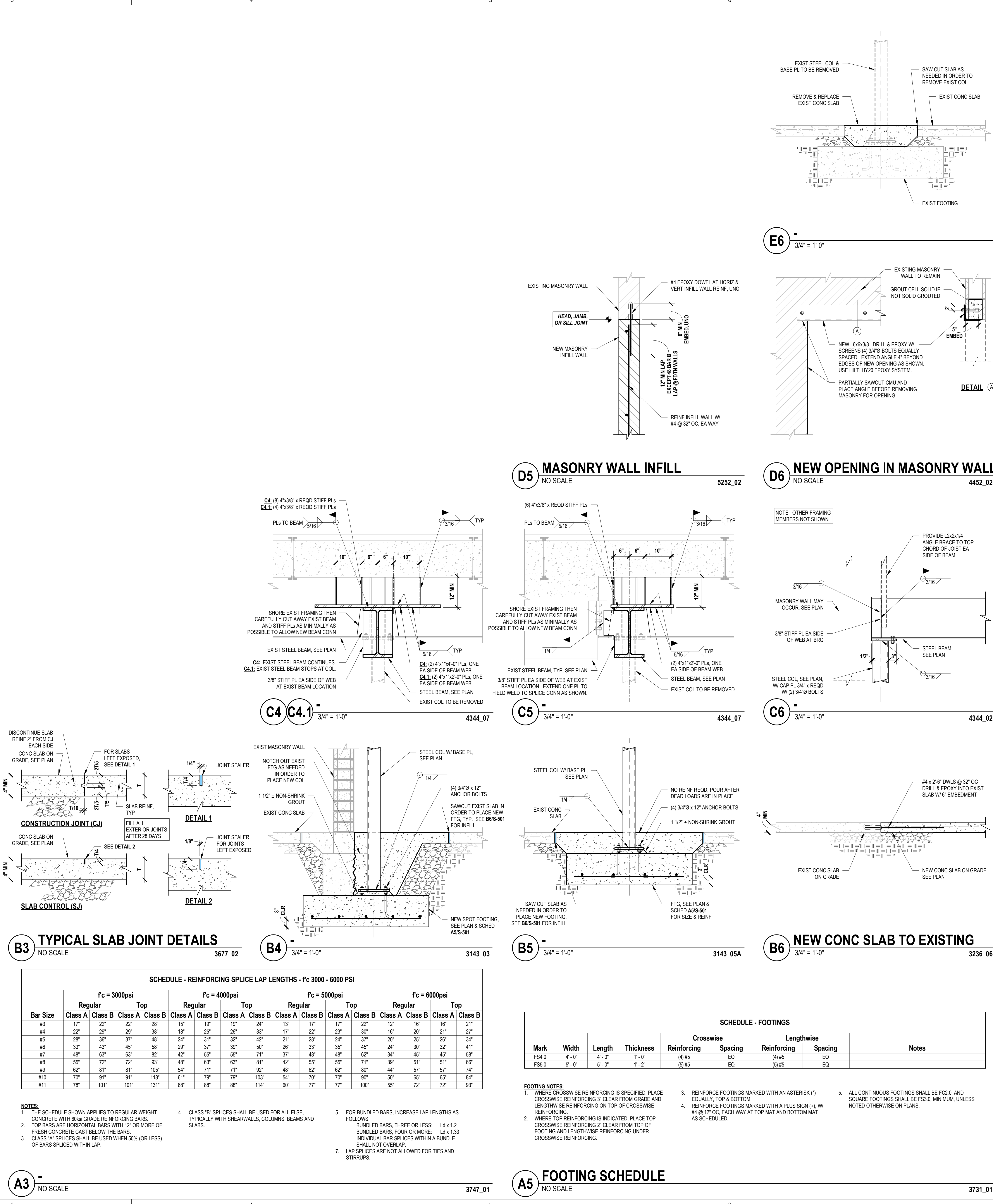
KEY PLAN



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A B C D E F

1 2 3 4 5 6

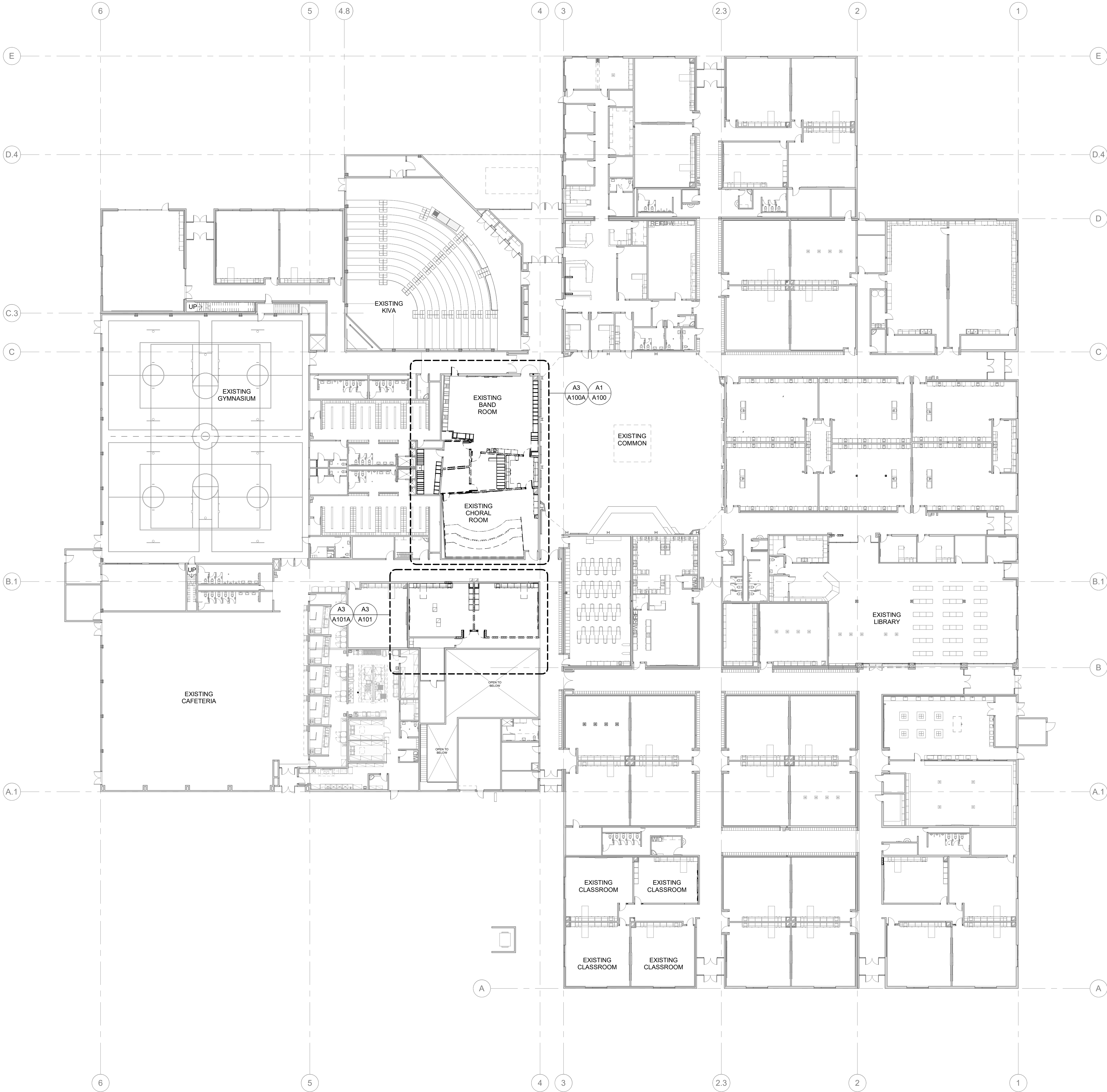


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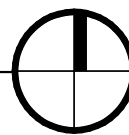
A B C D E

1 2 3 4 5 6

REFERENCE NOTES



A1 LEVEL 1 - EXISTING OVERALL FLOOR PLAN
SCALE: 3/64" = 1'-0"



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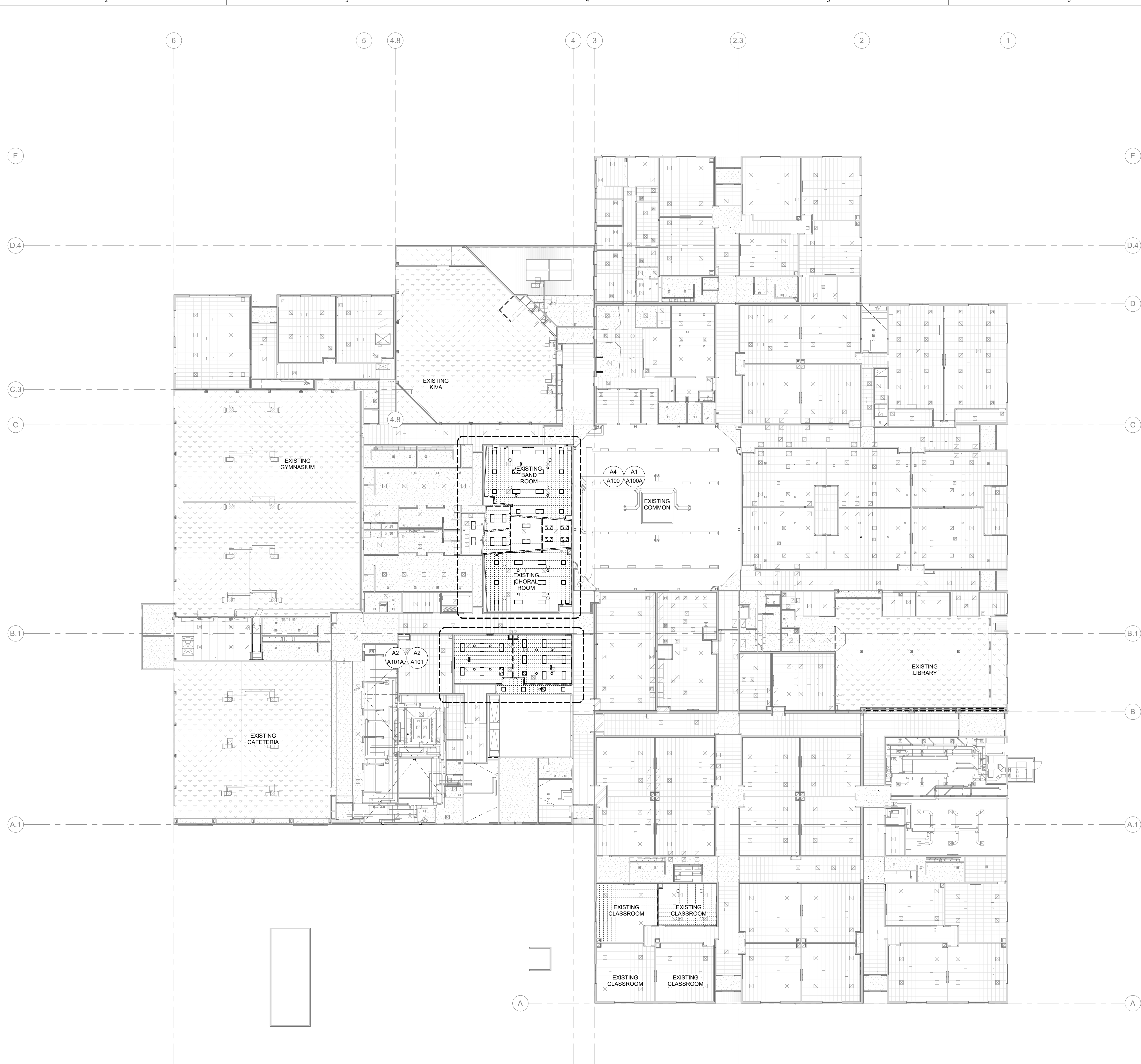
A B C D E

0' 1' 2'

A1

LEVEL 1 - EXISTING OVERALL REFLECTED CEILING PLAN

SCALE: 3/64" = 1'-0"



REFERENCE NOTES

INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
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PROJECT NUMBER 24038

EXISTING
OVERALL
RCP

A001

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A4

MUSIC ROOMS - RCP DEMOLITION

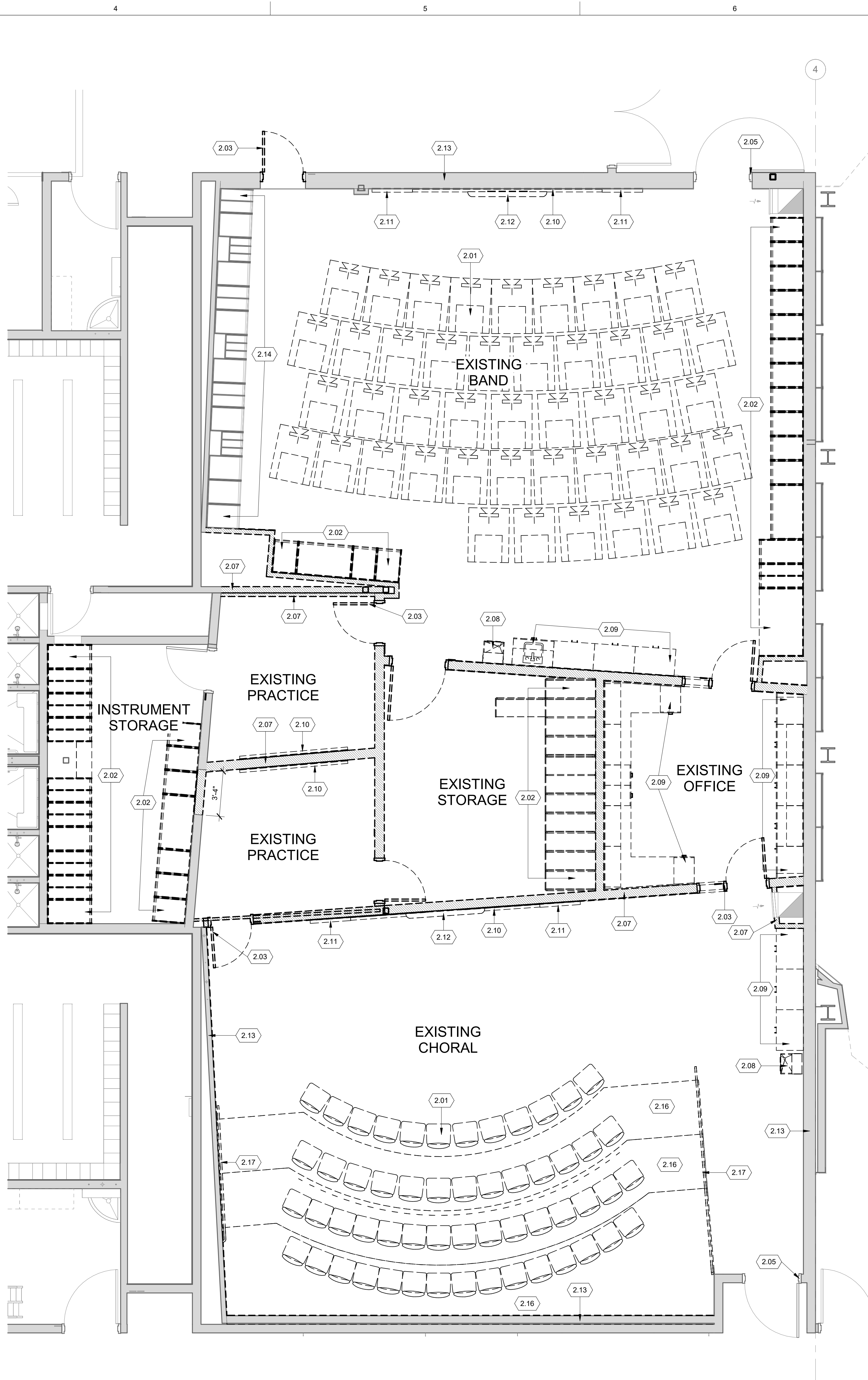
SCALE: 1/4" = 1'-0"



A1

MUSIC ROOMS - DEMOLITION PLAN

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



REFERENCE NOTES

- 2.01 EXISTING FURNITURE OWNER TO REMOVE
- 2.02 EXISTING MUSIC STORAGE CABINET TO BE REUSED
- 2.03 EXISTING DOOR TO BE REMOVED
- 2.05 EXISTING DOOR TO REMAIN
- 2.07 EXISTING WALL TO BE REMOVED
- 2.08 EXISTING DRINKING FOUNTAIN TO BE REMOVED AND REUSED
- 2.09 EXISTING MILLWORK TO BE RELOCATED FROM EXISTING CLASSROOM
- 2.10 EXISTING WHITE BOARD TO BE REMOVED AND REUSED OR RETURNED TO OWNER
- 2.11 EXISTING TACK BOARD TO BE REMOVED AND REUSED OR RETURNED TO OWNER
- 2.12 EXISTING PROJECTION SCREEN TO BE REMOVED AND REUSED OR RETURNED TO OWNER
- 2.13 EXISTING WALL TO REMAIN, PATCH AND REPAIR AS REQUIRED
- 2.14 EXISTING MUSIC CABINETS TO REMAIN
- 2.16 EXISTING CONCRETE RISERS TO BE REMOVED
- 2.17 EXISTING HANDRAIL TO BE REMOVED
- 2.18 EXISTING ACT CEILING TO BE REMOVED
- 2.19 EXISTING SOLAR TUBE TO REMAIN, PROTECT DURING CONSTRUCTION

DEMO CEILING LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING 24X48 ACT TO BE DEMOLISHED

DEMO PLAN LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED FULL HEIGHT, U.N.O.
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED

GENERAL NOTES

- ALL CUTS IN EXISTING BRICK FOR NEW OPENINGS SHALL BE AT THE CLOSEST JOINT TO THE DIMENSION INDICATED ON THE PLAN AND ALL NEW OPENINGS SHALL BE BRICK MODULE. CONTACT ARCHITECT IF CLARIFICATION IS NEEDED AT ANY SPECIFIC LOCATION/RETAIN DEMO'D MASONRY TO BE REUSED.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS THAT ARE TO BE REMOVED.

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BAND
PLANS -
DEMO

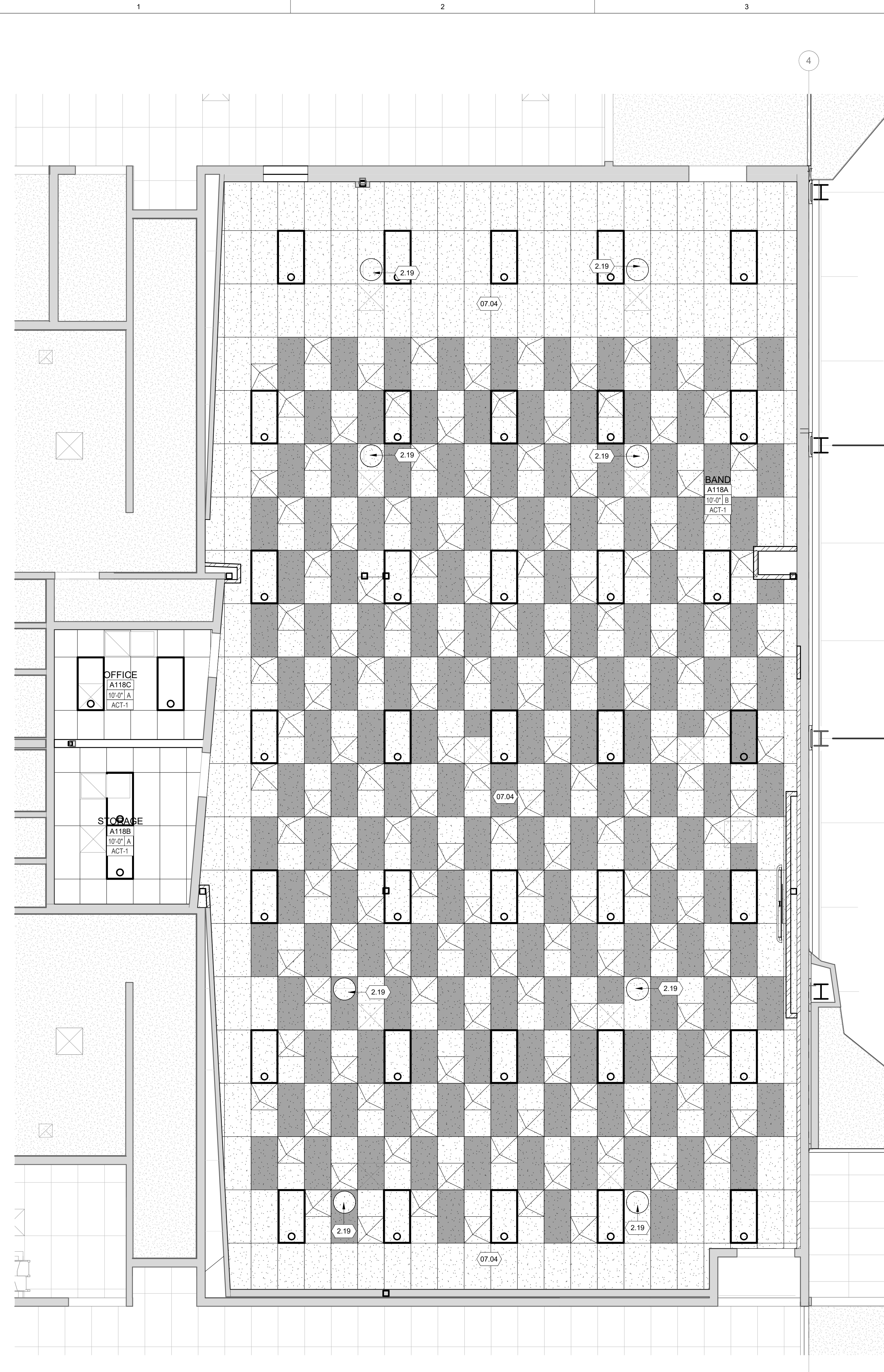
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A1

BAND - REFLECTED CEILING PLAN

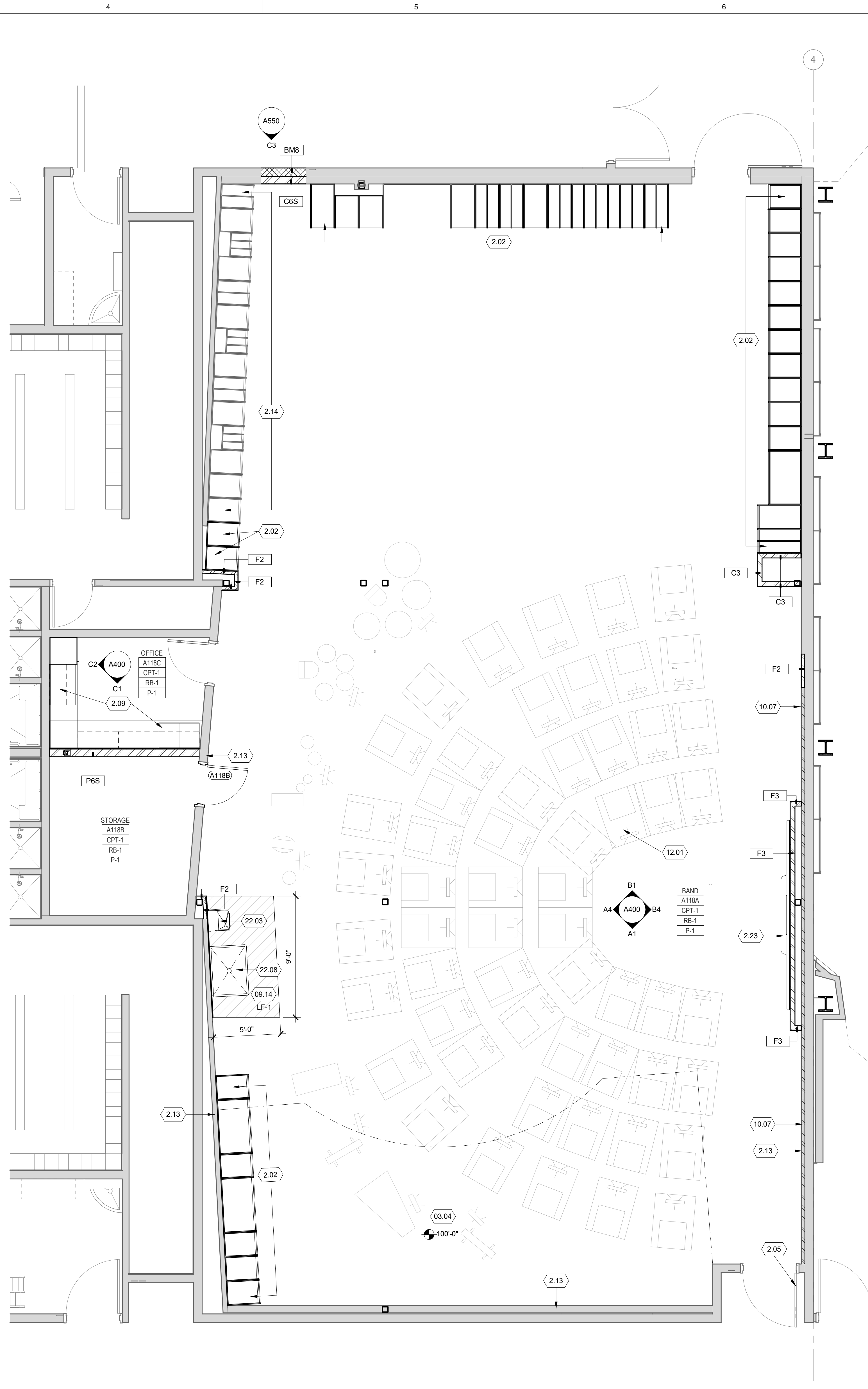
SCALE: 1/4" = 1'-0"



A3

BAND - REFERENCE PLAN

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



REFERENCE NOTES

- 2.02 EXISTING MUSIC STORAGE CABINET TO BE REUSED
- 2.05 EXISTING DOOR TO REMAIN
- 2.09 EXISTING MILLWORK TO BE RELOCATED FROM EXISTING CLASSROOM
- 2.13 EXISTING WALL TO REMAIN, PATCH AND REPAIR AS REQUIRED
- 2.14 EXISTING MUSIC CABINETS TO REMAIN
- 2.19 EXISTING SOLAR TUBE TO REMAIN, PROTECT DURING CONSTRUCTION
- 2.23 EXISTING FRONT OF ROOM WHITE BOARD, PROJECTION SCREEN AND TACK BOARD TO BE RELOCATED AND REUSED FROM EXISTING CLASSROOM
- 03.04 CONCRETE SLAB ON GRADE
- 07.04 APPLY K-13 TO ROOF DECKING ABOVE CEILING, 2" THICK
- 09.14 LVT FLOORING, RE FINISH SCHEDULE
- 12.01 FURNITURE PROVIDED BY OWNER
- 22.03 REUSE EXISTING ELECTRIC DRINKING FOUNTAIN, SEE PLUMBING
- 22.08 JUMBO UTILITY SINK, SEE PLUMBING

LEGEND

- HEIGHT ABOVE FINISHED FLOOR
- ROOM NAME
- RM NO. C = CEILING TYPE
- HT C PNT = CEILING FINISH
- SEE FINISH SCHEDULE
- EXISTING WALL TO REMAIN
- NEW METAL STUD WALL. SEE WALL TYPES.
- NEW BRICK MASONRY WALL. SEE WALL TYPES.
- NEW 24X48 ACT
- LIGHT FIXTURES
- MECHANICAL FIXTURES
- EXISTING TUBULAR DAYLIGHTING DEVICE
- PYRAMID SHAPED CEILING TILE
- METAL MESH TILE
- CEILING TYPE
- A 2'X4' ACOUSTICAL CEILING TILE
- B 2'X4' ACOUSTICAL CEILING TILE WITH PYRAMID TILES AND METAL MESH

GENERAL NOTES

- SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS IN CEILING. CONTRACTOR TO COORDINATE WITH LIGHT FIXTURES (AS INDICATED IN ELECTRICAL DRAWINGS) AND MOVE DIFFUSERS AROUND THE LIGHT FIXTURES IF THERE IS A CONFLICT.
- CONTRACTOR SHALL VERIFY WITH ARCHITECT FOR ALL CEILING HEIGHT CLARIFICATIONS.
- SOME OF THE ITEMS ON CEILING INDICATED IN MECHANICAL AND ELECTRICAL DRAWINGS, MAY OR MAY NOT BE, INDICATED ON ARCHITECTURAL CEILING PLANS. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE WITH ARCHITECT FOR ANY REQUIRED CLARIFICATIONS.
- CONTRACTOR SHALL NOT HANG CEILING TILES AND LIGHTS FROM DUCTS.
- ALL FIRE SPRINKLER HEADS SHALL BE CENTERED IN ACOUSTICAL CEILING TILES.

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BAND PLANS

A100A

PROJECT NUMBER 24038

DATE REVISION

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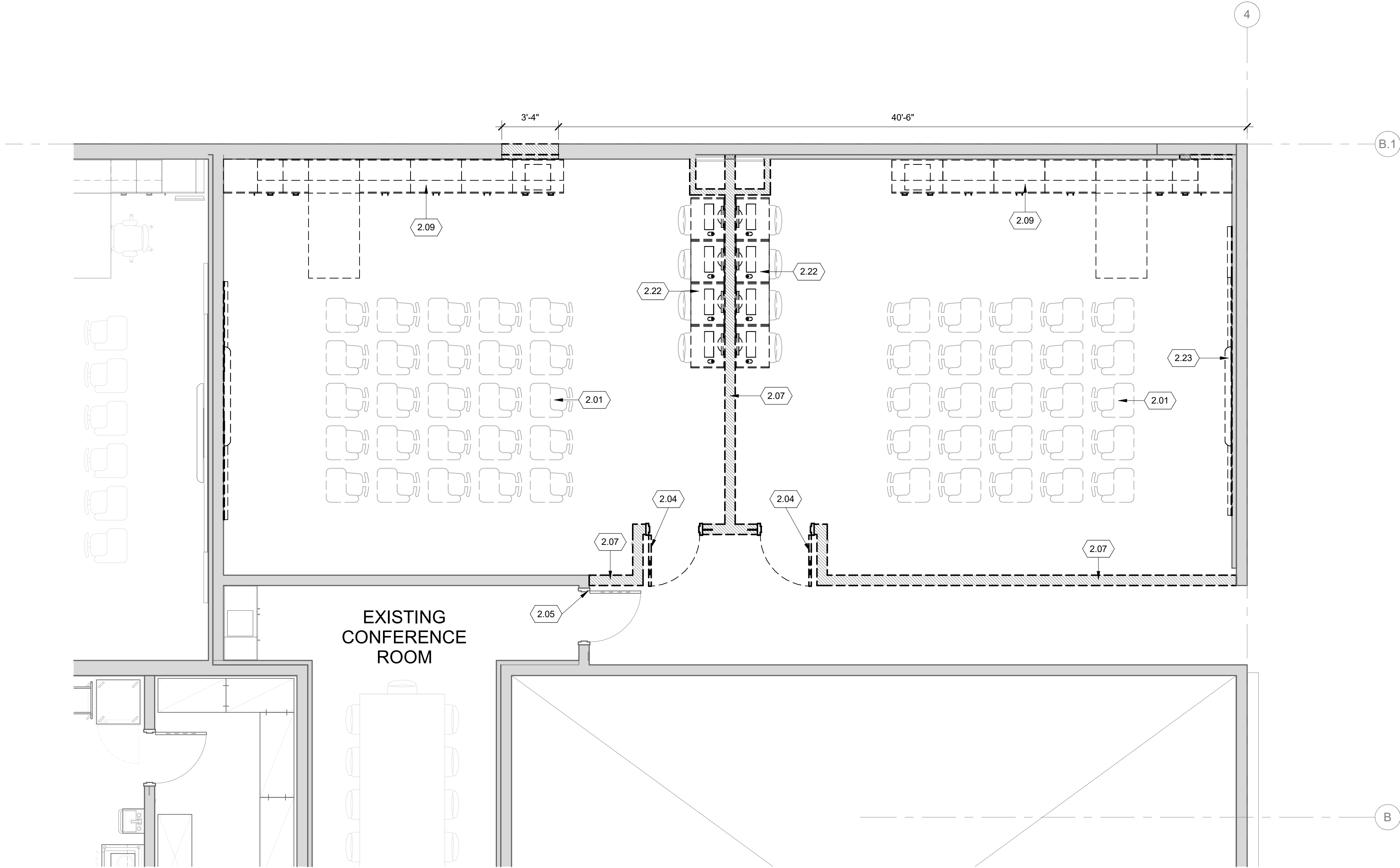
A B C D E



A2

CHORAL - REFLECTED CEILING PLAN DEMO

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



A3

CHORAL - REFERENCE PLAN

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



REFERENCE NOTES

- 2.01 EXISTING FURNITURE OWNER TO REMOVE
- 2.04 EXISTING DOOR TO BE REMOVED AND REUSED
- 2.05 EXISTING DOOR TO REMAIN
- 2.07 EXISTING WALL TO BE REMOVED
- 2.09 EXISTING MILLWORK TO BE RELOCATED FROM EXISTING CLASSROOM
- 2.18 EXISTING ACT CEILING TO BE REMOVED
- 2.19 EXISTING SOLAR TUBE TO REMAIN, PROTECT DURING CONSTRUCTION
- 2.22 EXISTING MILLWORK TO BE REMOVED
- 2.23 EXISTING FRONT OF ROOM WHITE BOARD, PROJECTION SCREEN AND TACK BOARD TO BE RELOCATED AND REUSED FROM EXISTING CLASSROOM

DEMO CEILING LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING 24X48 ACT TO BE DEMOLISHED

DEMO PLAN LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED FULL HEIGHT, U.N.O.
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED

GENERAL NOTES

- ALL CUTS IN EXISTING BRICK FOR NEW OPENINGS SHALL BE AT THE CLOSEST JOINT TO THE DIMENSION INDICATED ON THE PLAN AND ALL NEW OPENINGS SHALL BE BRICK MODULE. CONTACT ARCHITECT IF CLARIFICATION IS NEEDED AT ANY SPECIFIC LOCATION. RETAIN DEMO'D MASONRY TO BE REUSED.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS THAT ARE TO BE REMOVED.

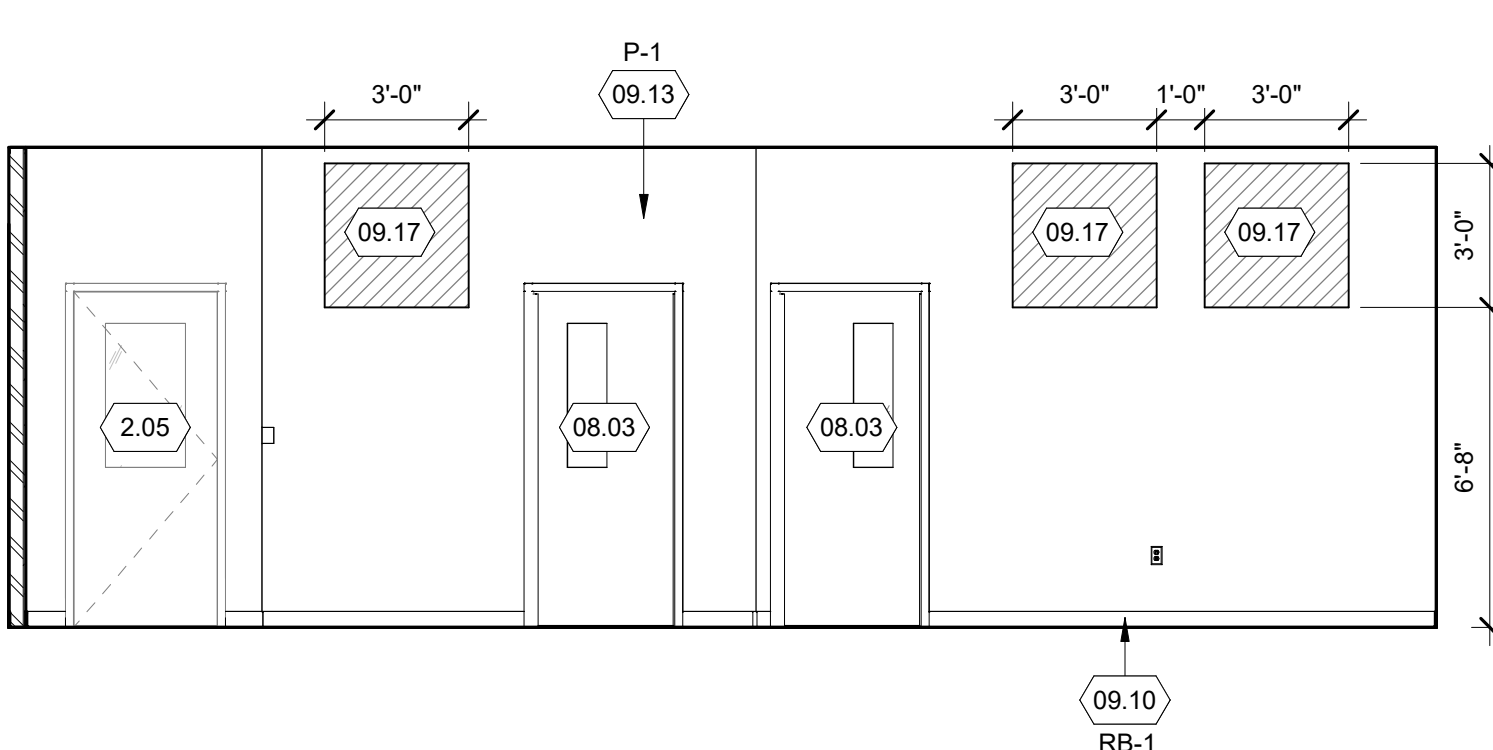


- ## LEGEND
- ROOM NAME
- | |
|--------|
| RM NO. |
| HT C |
| PNT |
- HEIGHT ABOVE FINISHED FLOOR →
- C = CEILING TYPE
PNT = CEILING FINISH
SEE FINISH SCHEDULE

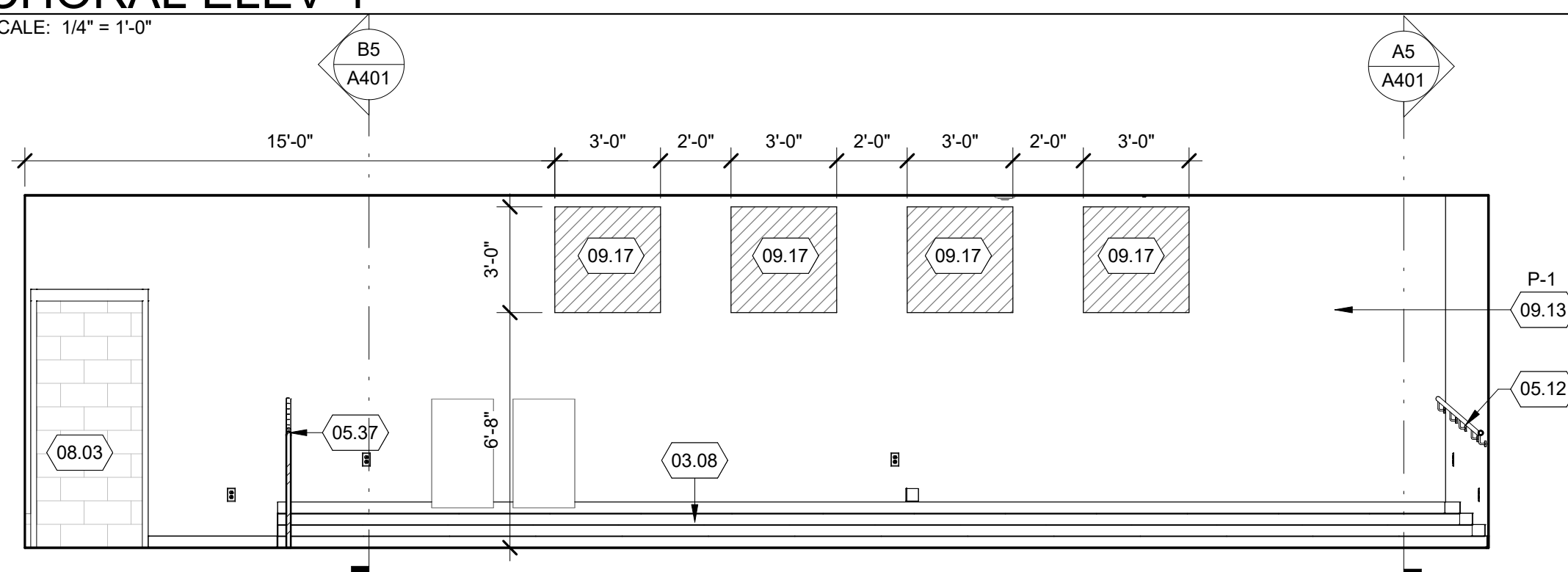
INDIAN HILLS BAND & OFFICIAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - MARCH 21, 2025



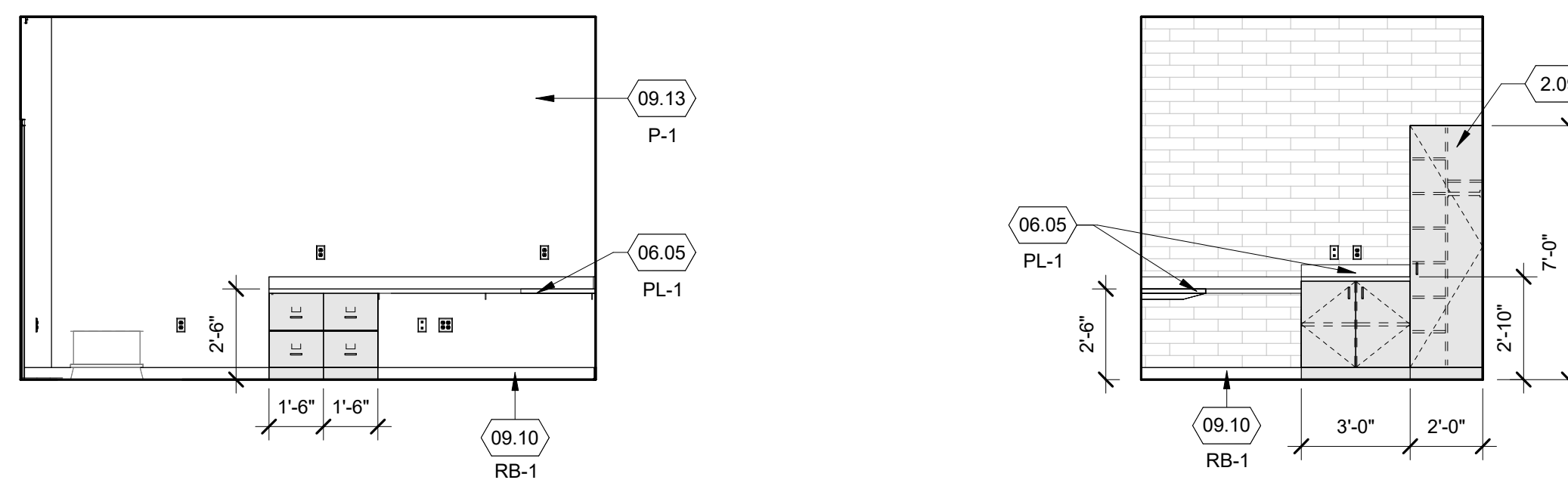
- ## GENERAL NOTES
1. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS IN CEILING. CONTRACTOR TO COORDINATE WITH LIGHT FIXTURES (AS INDICATED IN ELECTRICAL DRAWINGS) AND MOVE DIFFUSERS AROUND THE LIGHT FIXTURES IF THERE IS A CONFLICT.
 2. CONTRACTOR SHALL VERIFY WITH ARCHITECT FOR ALL CEILING HEIGHT CLARIFICATIONS.
 3. SOME OF THE ITEMS ON CEILING INDICATED IN MECHANICAL AND ELECTRICAL DRAWINGS, MAY OR MAY NOT BE, INDICATED ON ARCHITECTURAL CEILING PLANS. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE WITH ARCHITECT FOR ANY REQUIRED CLARIFICATIONS.
 4. CONTRACTOR SHALL NOT HANG CEILING TILES AND LIGHTS FROM DUCTS.
 5. ALL FIRE SPRINKLER HEADS SHALL BE CENTERED IN ACOUSTICAL CEILING TILES.
 6. MILLWORK PL-1



E4 CHORAL ELEV 4
SCALE: 1/4" = 1'-0"

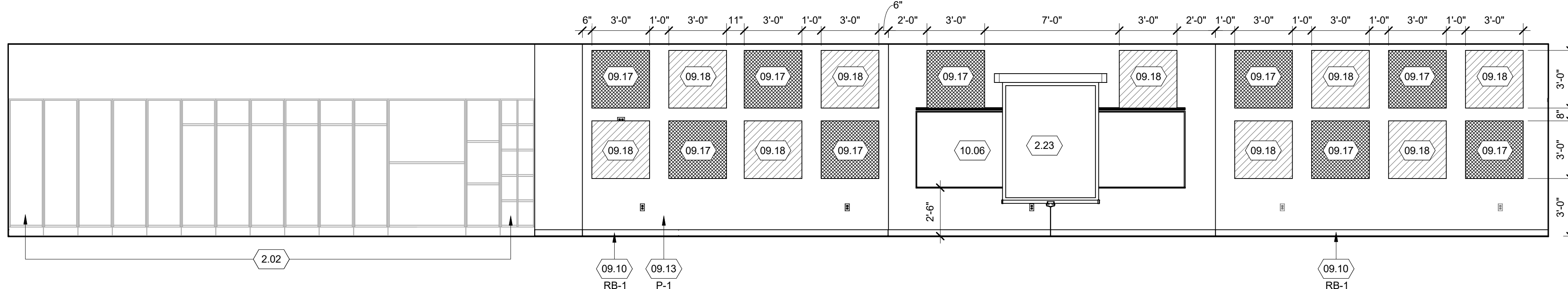


D3 CHORAL ELEV 1

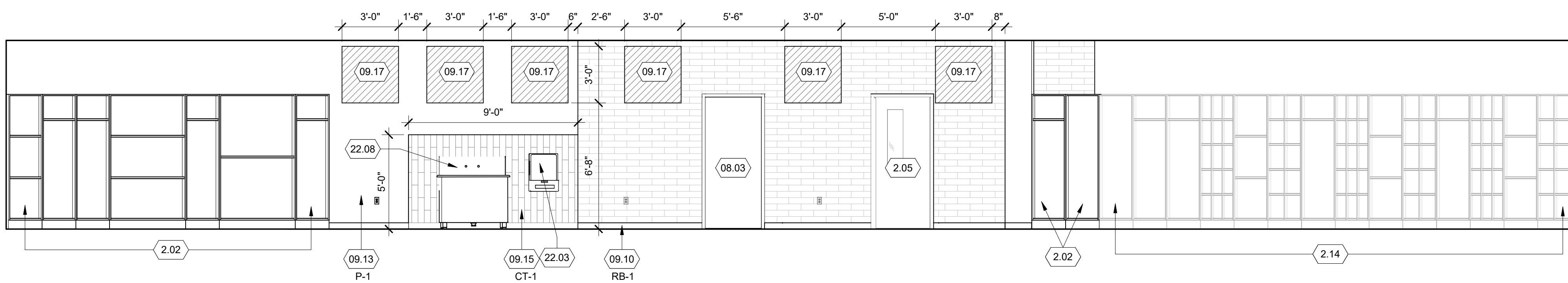


C2 OFFICE ELEV - 2
SCALE: 1/4" = 1'-0"

C5 OFFICE B127A - ELEV 2
SCALE: 1/4" = 1'-0"

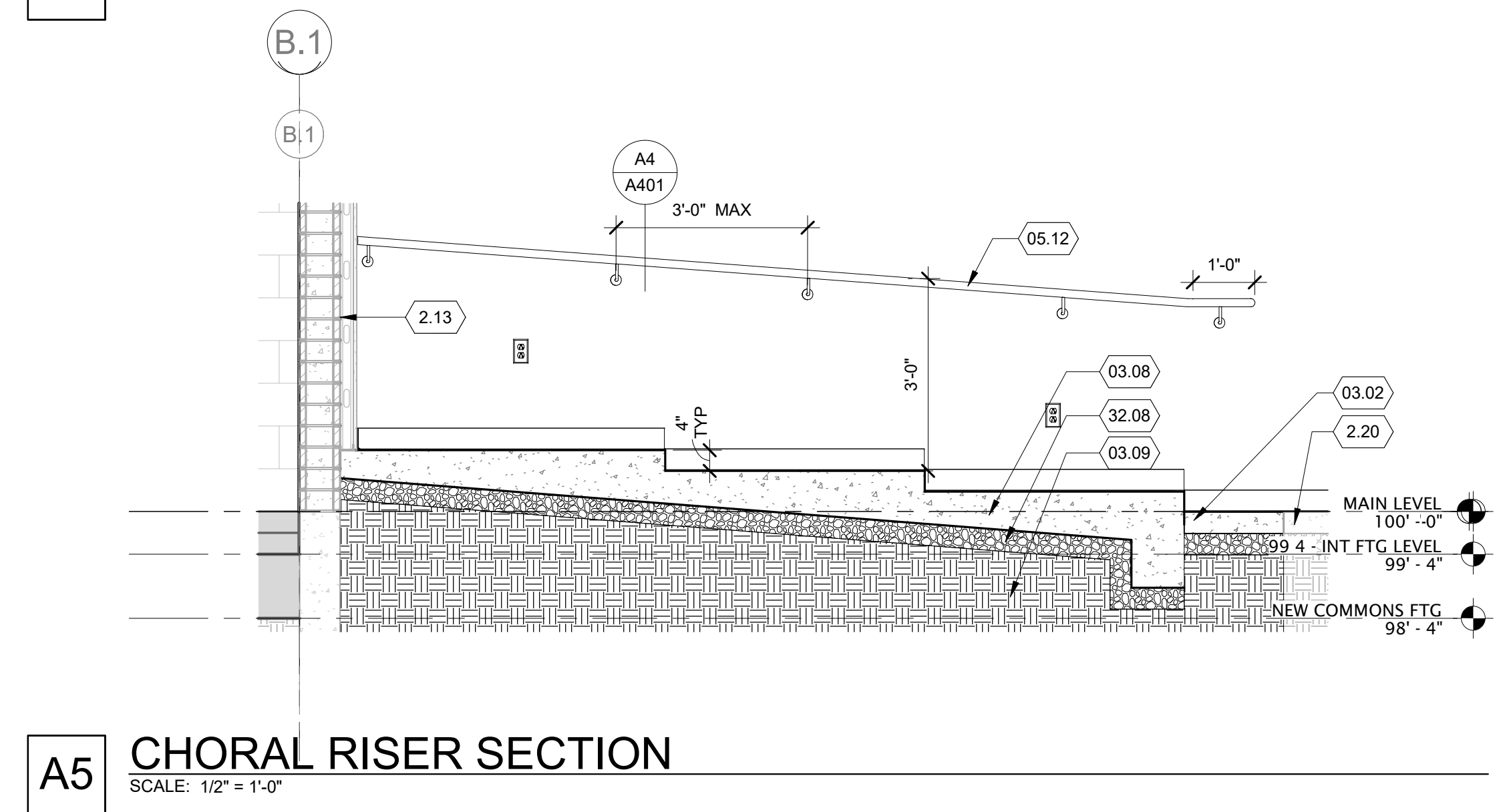


B4 **BAND - E**
SCALE: 1/4" = 1'-0"



A4 **BAND - W**
SCALE: 1/4" = 1'-0"

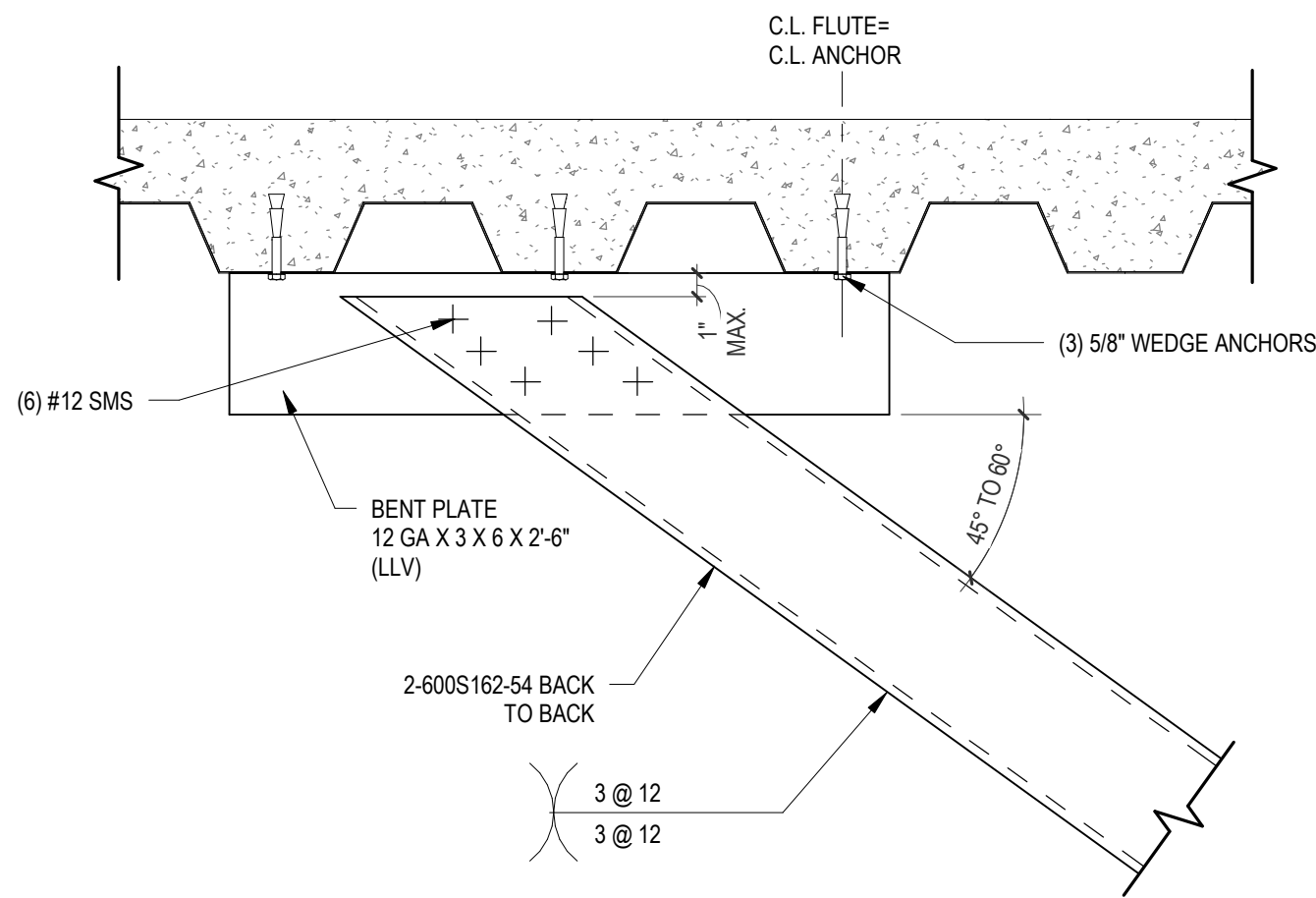
- FFKR ARCHITECTS**
730 Pacific Avenue • Salt Lake City, Utah 84104
O 801.521.6166 • **FFKR.COM**



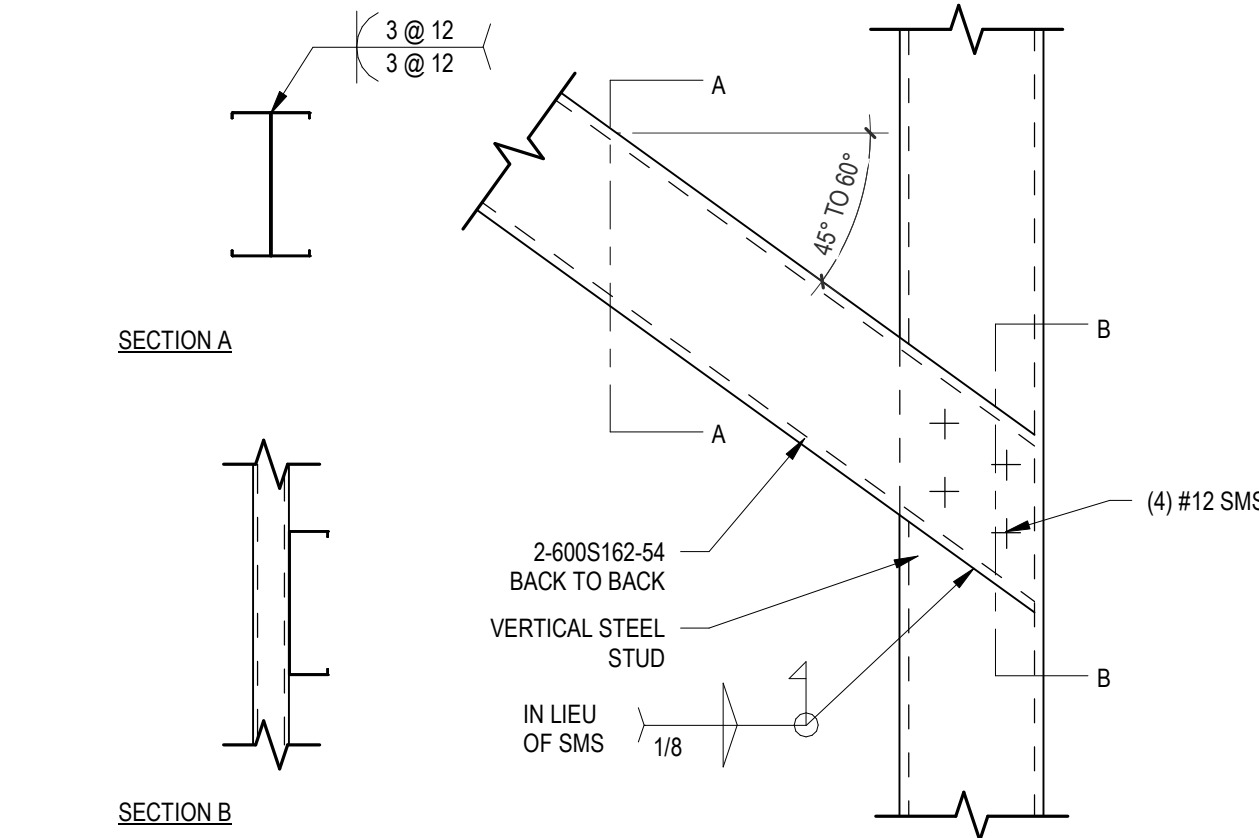
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0' 1' 2' 3' 4' 5' 6' 7' 8' 9' 10'



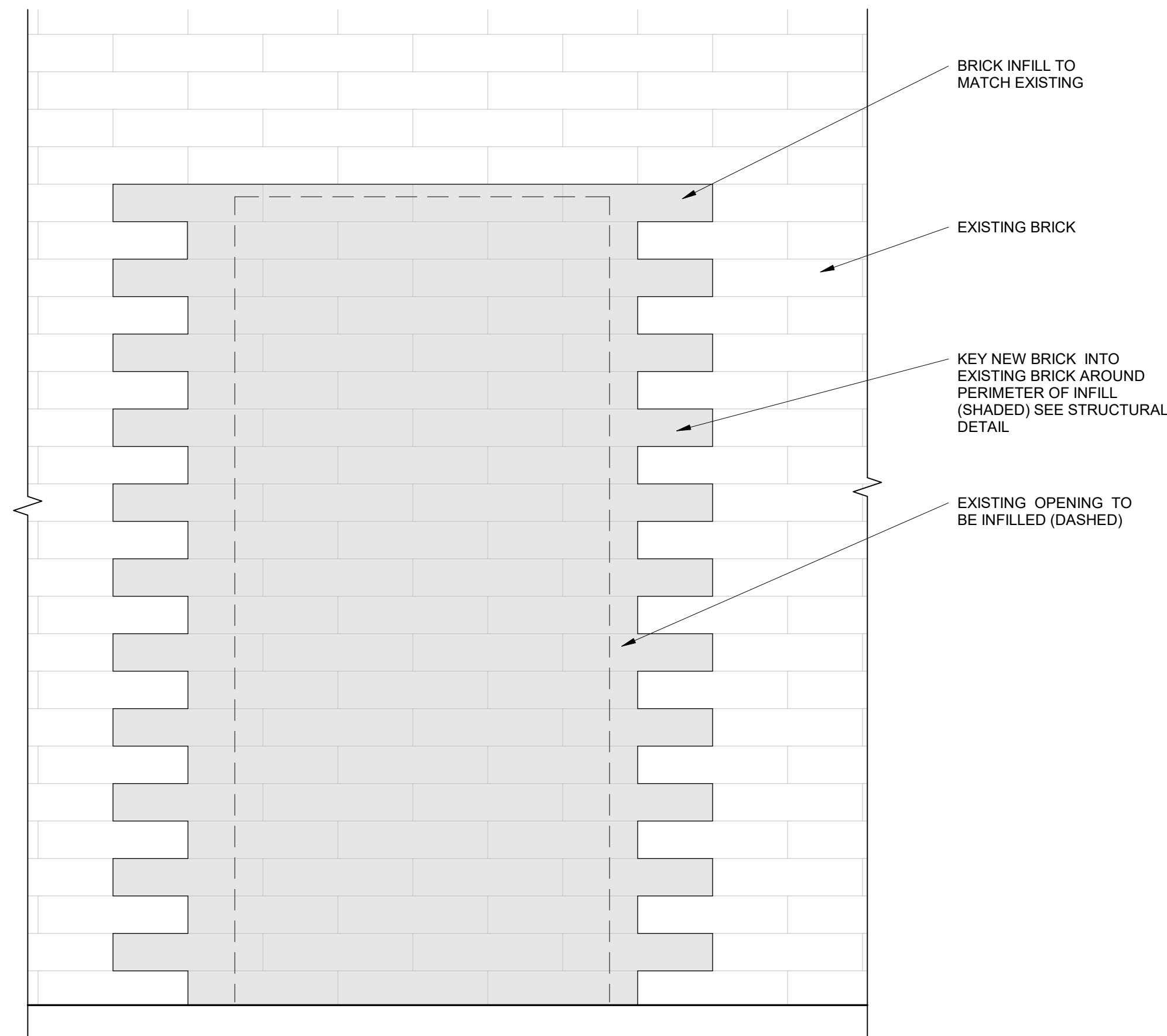
BRACE TO FLOOR (PERP TO FLUTE)
SCALE: 1-1/2" = 1'-0"



BRACE TO STUD
SCALE: 1-1/2" = 1'-0"

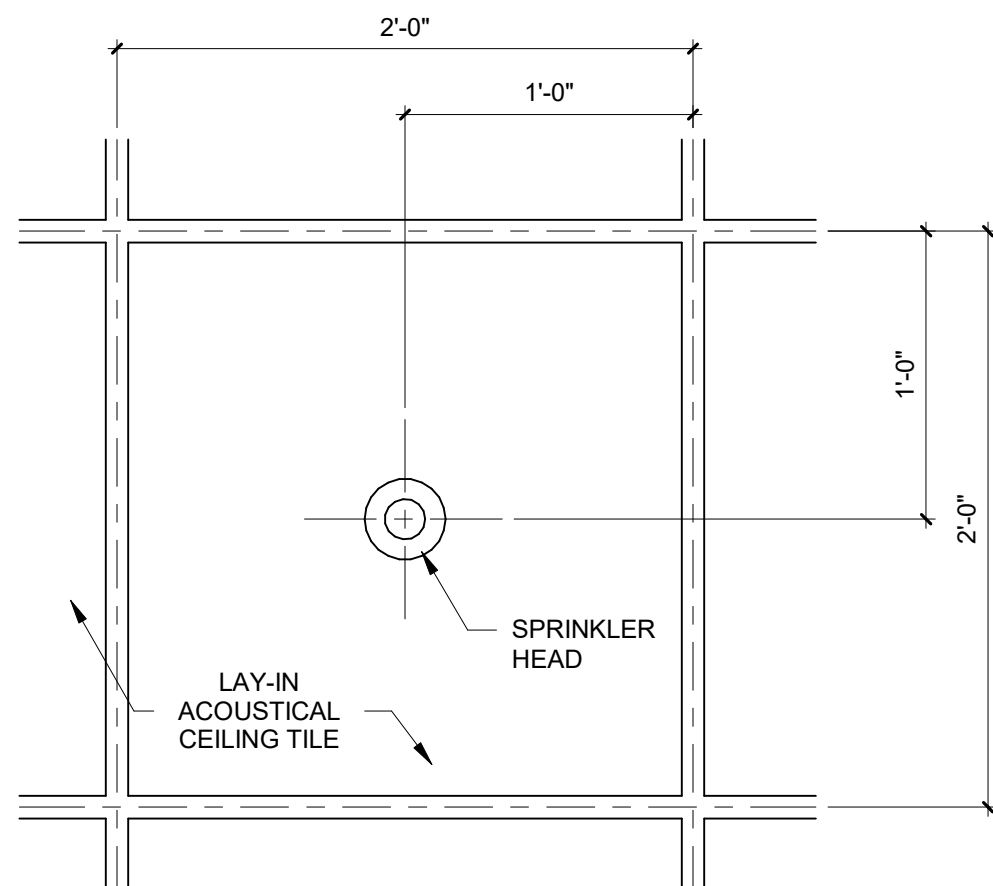
C1 WALL BRACING

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



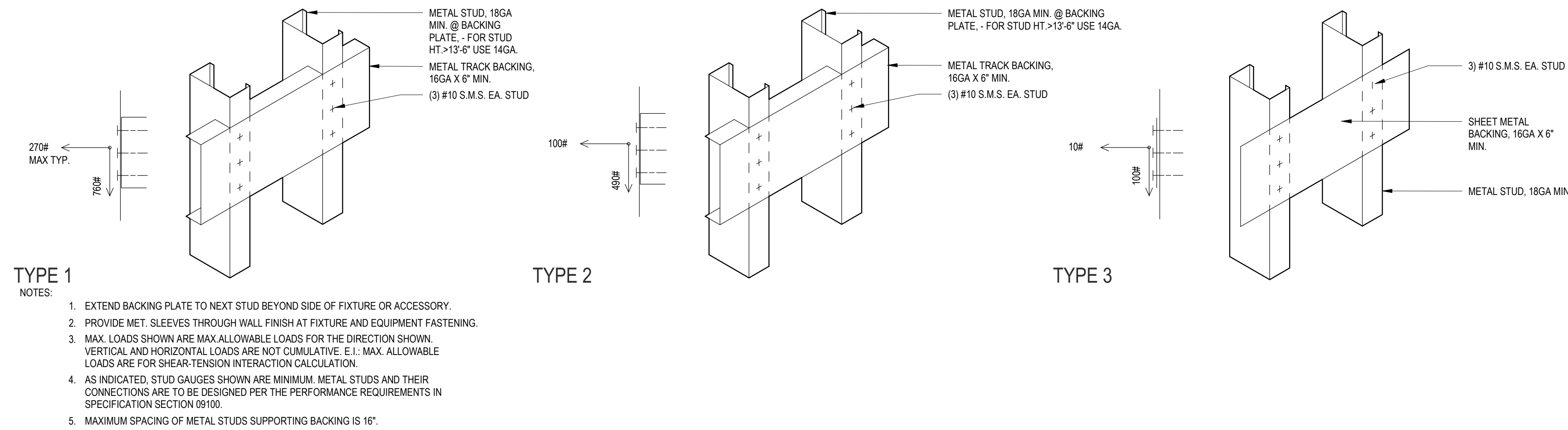
C3 TYPICAL BRICK INFILL

SCALE: 1" = 1'-0"



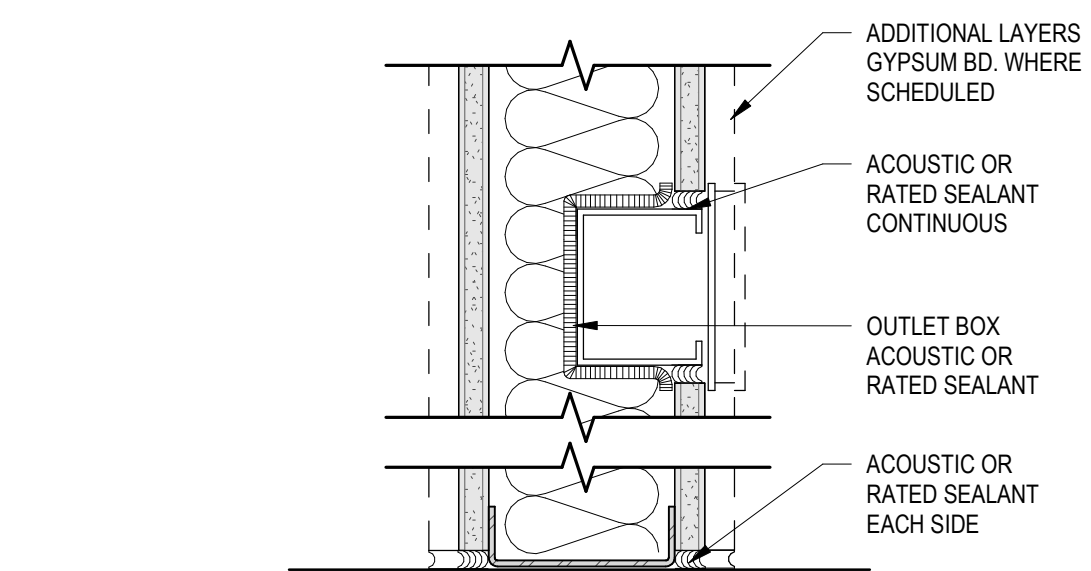
B1 SPRINKLER HEAD

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



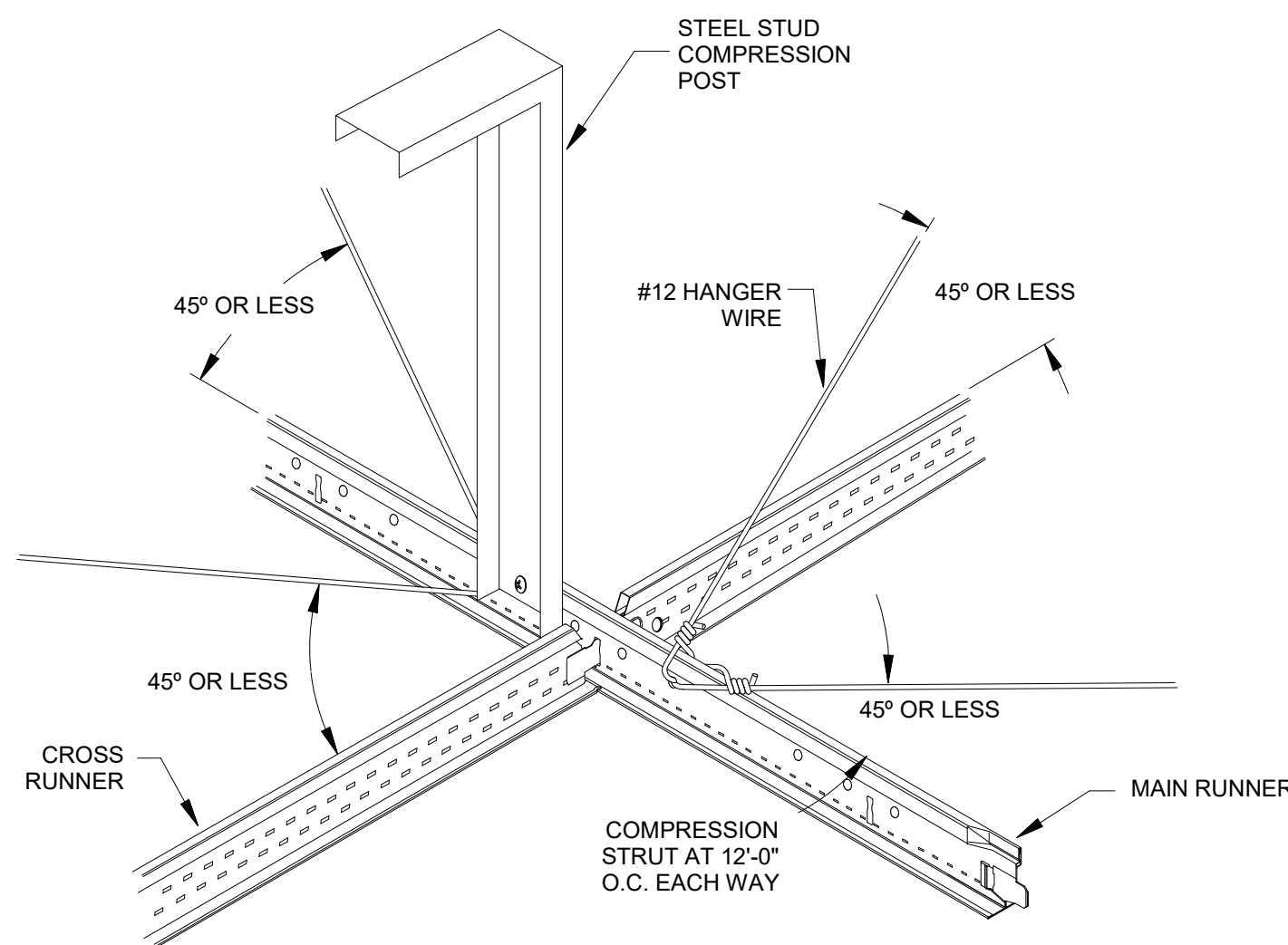
B2 BACKING PLATE SCHEDULE

SCALE: N.T.S.



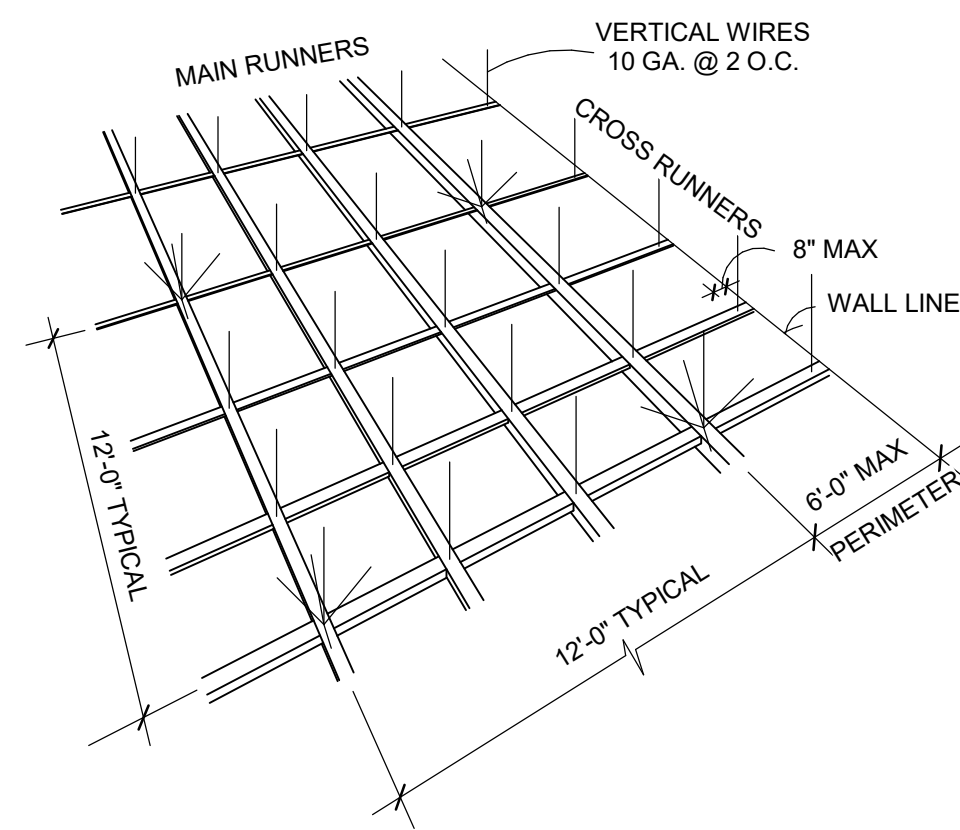
B6 ELECTRICAL BOX

SCALE: 3" = 1'-0"



A1 TYP. SCIESMIC BRACING DETAIL

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

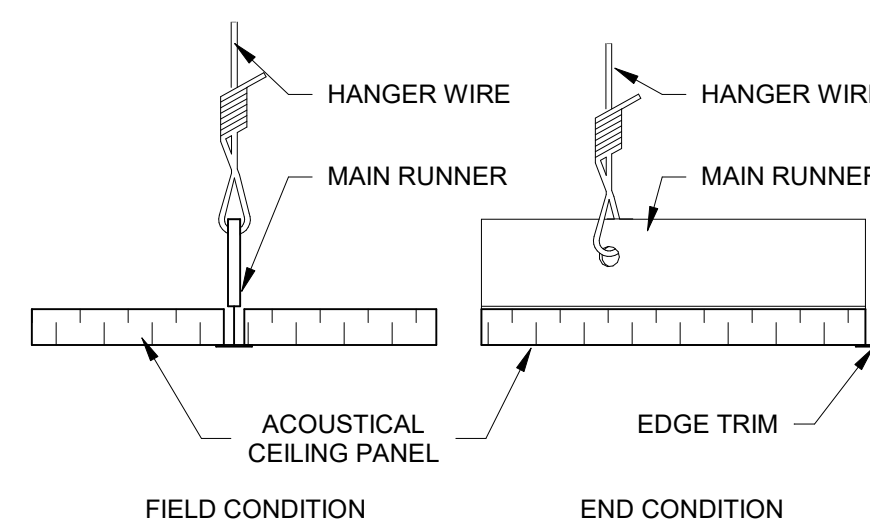


A2 TYP. SEISMIC BRACING DETAIL

SCALE: 3" = 1'-0"

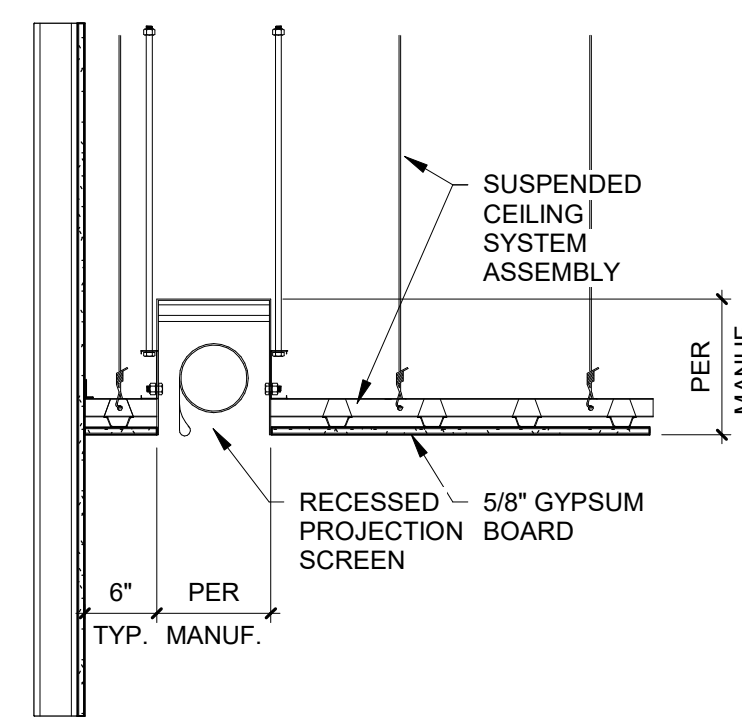
NOTE:

1. A CEILING AREA OF 144 SQ. FT. OR LESS SURROUNDED BY WALLS THAT CONNECT DIRECTLY TO THE STRUCTURE ABOVE SHALL BE EXEMPT FROM LATERAL LOAD DESIGN REQUIREMENTS OF THESE STANDARDS.
2. IN EACH ORTHOGONAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED WITH AN ICC EVALUATED & APPROVED SEISMIC CLIP SYSTEM AND 0.75" OF CLEARANCE TO ALLOW FREE HORIZONTAL MOVEMENT.
3. LATERAL CEILING BRACING IS REQUIRED @ 12'-0" O.C. IN BOTH DIRECTIONS FOR ALL CEILINGS GREATER THAN 1,000 SF.
4. CEILING AREAS OVER 2,500 SF MUST HAVE SEISMIC SEPARATION JOINTS.
5. LIGHT FIXTURES, MECHANICAL EQUIPMENT, ETC. MUST BE SUPPORTED INDEPENDENT OF THE CEILING SUPPORT/ BRACKETING SYSTEM.



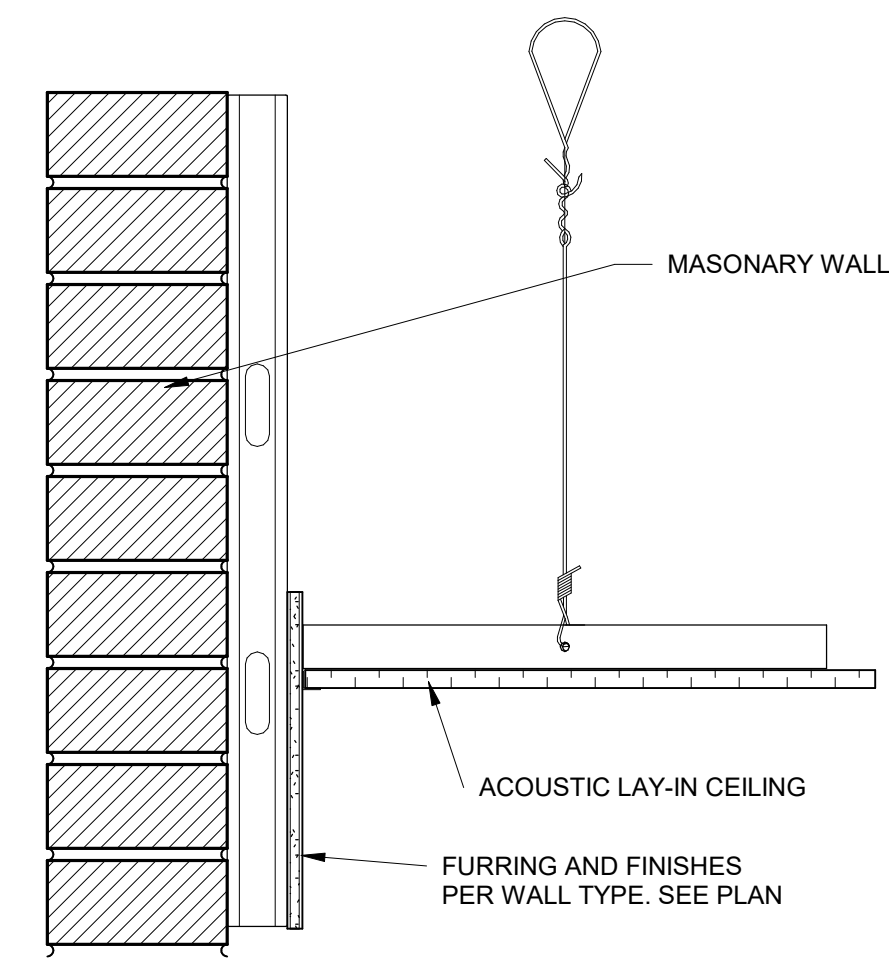
A4 ACOUSTICAL PANEL DETAIL

SCALE: 3" = 1'-0"



A5 PROJECTION SCREEN DETAIL

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



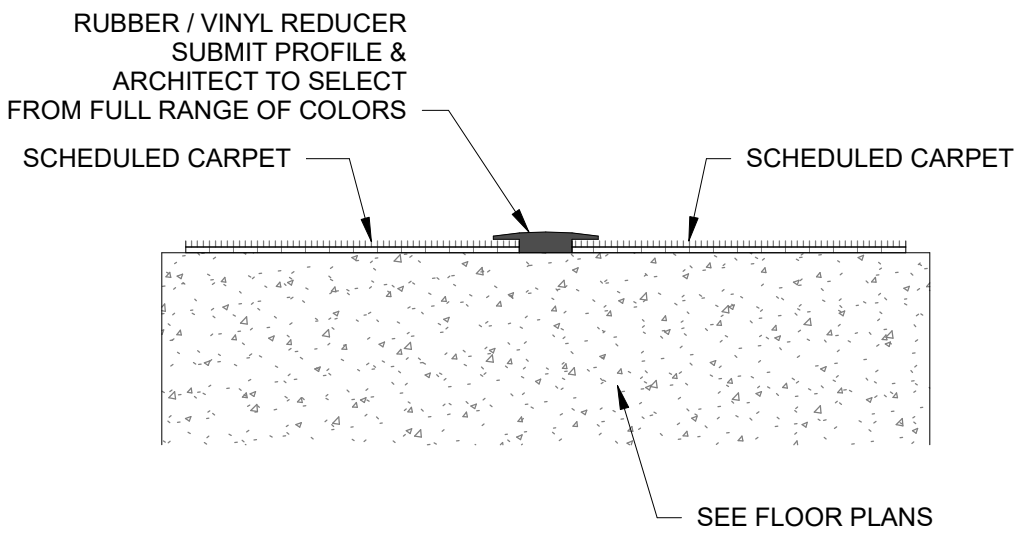
A6 TYPICAL LAY-IN CEILING DETAIL

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

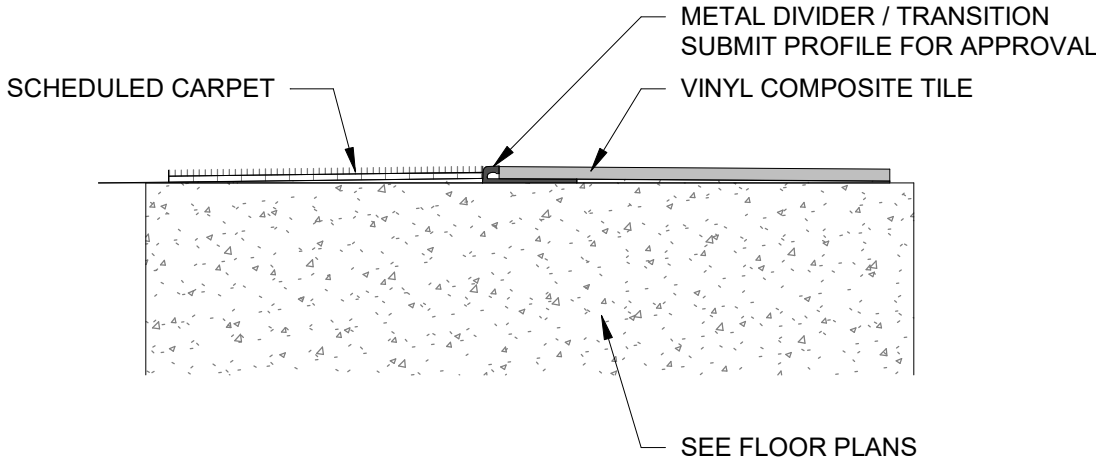
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FINISH SCHEDULE						
CODE	PRODUCT TYPE	MANUFACTURER	STYLE	COLOR	SPECIFICATIONS	NOTES
BASE						
RB-1	RUBBER BASE	ROPPE	PINNACLE TYPE TS	123 CHARCOAL	4" X 1/8" STANDARD TOE	@ GYP. WALL LOCATIONS ONLY
CEILING						
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA	1913 WHITE	SQ LAY-IN TILE 2' X 4' PRELUDE GRID 15/16" WHITE	
FLOORING - CARPET						
CPT-1	CARPET TILE	MOHAWK GROUP	ZIP IT GT296	966 LOW RISE	TILE SIZE: 12"x36", HERRINGBONE INSTALLATION	BAND & CHORAL
CPT-9	BROADLOOM	MOHAWK GROUP	WAVELENGTH GL149	978 BURST	RANDOM INSTALLATION	BAND & CHORAL
FLOORING - LINOLEUM						
LF-1	LINOLEUM FLOORING	FORBO	MARMOLEUM	TBD	SHEET GOOD CUT TO SIZE PER PLAN	
MISCELLANEOUS						
ACP-1	ACOUSTICAL PANEL	MDC	ZINTRA	GREY		BAND & CHORAL
ACP-2	ACOUSTICAL PANEL	MDC	ZINTRA	NAVY		BAND & CHORAL
ACP-3	ACOUSTICAL PANEL	MDC	ZINTRA	ASH		BAND & CHORAL
PAINT						
P-1	PAINT	SHERWIN WILLIAMS		SW7005 - PURE WHITE	FINISH: EGGSHELL	GENERAL PAINT
P-2	PAINT	SHERWIN WILLIAMS		SW7642 - PAVESTONE	FINISH: EGGSHELL	GENERAL PAINT
TILE						
CT-1	CERAMIC TILE	DALTILE	ELEVARE	EL47 MATTE LUNAR	TILE SIZE: 4" X 16"; VERTICAL INSTALLATION; RUNNING BOND 25%	
WOOD, PLASTICS AND COMPOSITES						
PL-1	PLASTIC LAMINATE	FORMICA		837-58 GRAPHITE		COVER UNFINISHED ENDS OR EXISTING MILLWORK WHERE EXPOSED
PL-2	PLASTIC LAMINATE	FORMICA		8824-58 WHITE DROPS		COVER UNFINISHED ENDS OR EXISTING MILLWORK WHERE EXPOSED

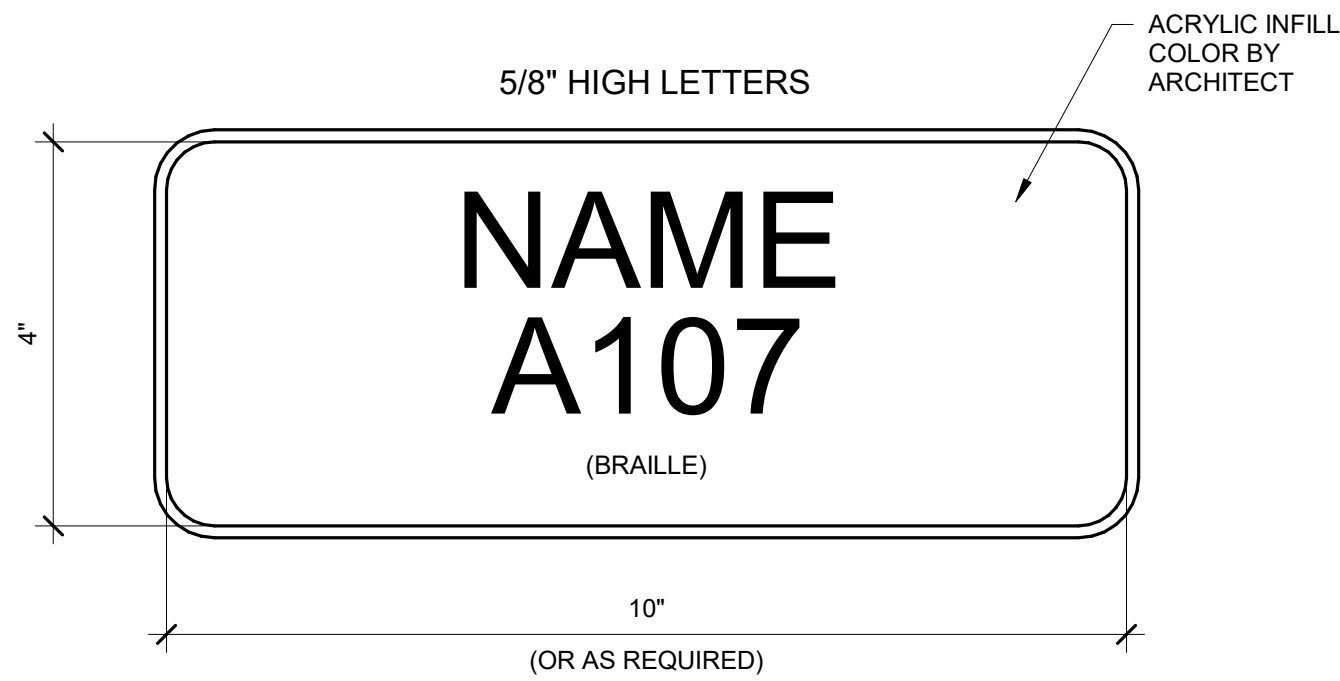
SIGNAGE SCHEDULE					
Sign Type	Number	Name	TEXT	NOTES	Level
S1	A118A	BAND			MAIN LEVEL
S2	A118B	STORAGE			MAIN LEVEL
S2	A118C	OFFICE			MAIN LEVEL
S1	B127	CHORAL			MAIN LEVEL
S2	B127A	OFFICE			MAIN LEVEL
S2	B127B	STORAGE			MAIN LEVEL
	B128A	SPECIAL EDUCATION CONF ROOM			MAIN LEVEL



B1 CARPET TO CARPET
SCALE: 3" = 1'-0"

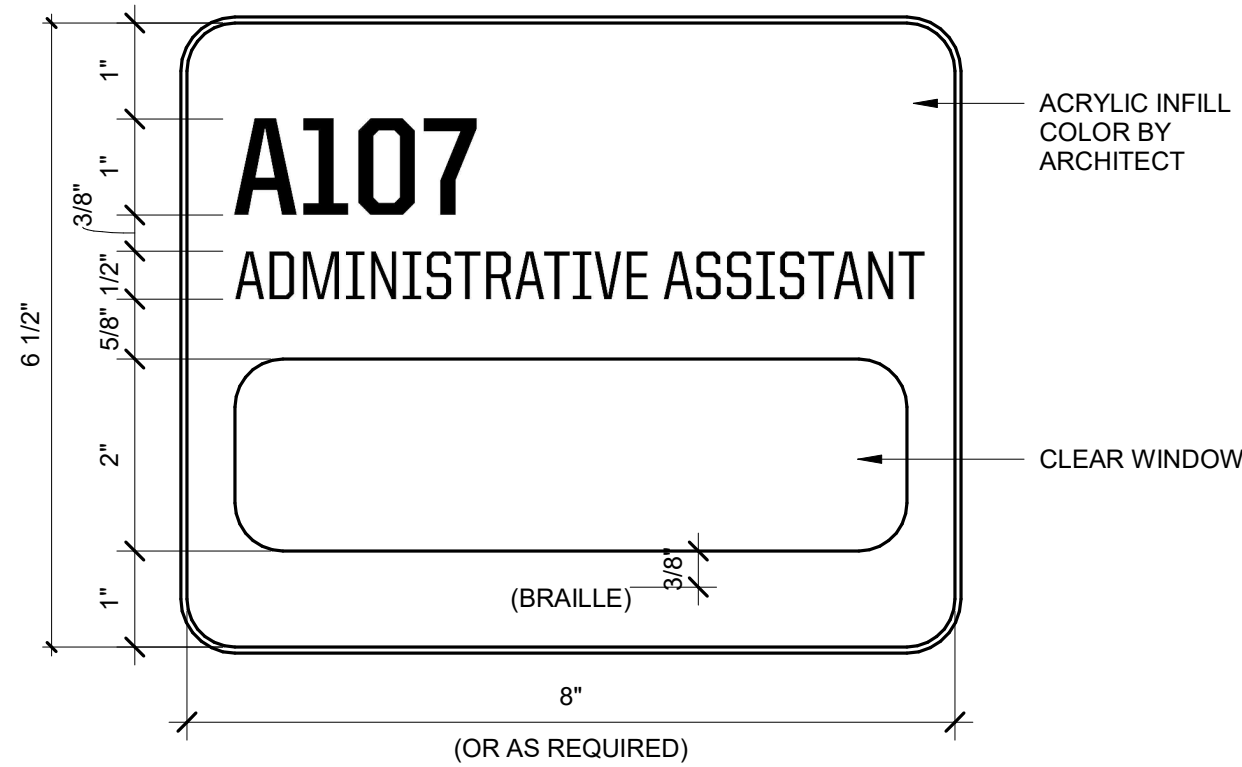


A1 CARPET TO VCT
SCALE: 3" = 1'-0"



NOTE:
• COLOR AS SELECTED BY ARCHITECT
• ROOM NAME AND NUMBER TO BE COORDINATED DURING SUBMITTAL PROCESS

B6 S2 - TYPICAL ROOM
SCALE: 6" = 1'-0"



NOTE:
• COLOR AS SELECTED BY ARCHITECT
• ROOM NAME AND NUMBER TO BE COORDINATED DURING SUBMITTAL PROCESS

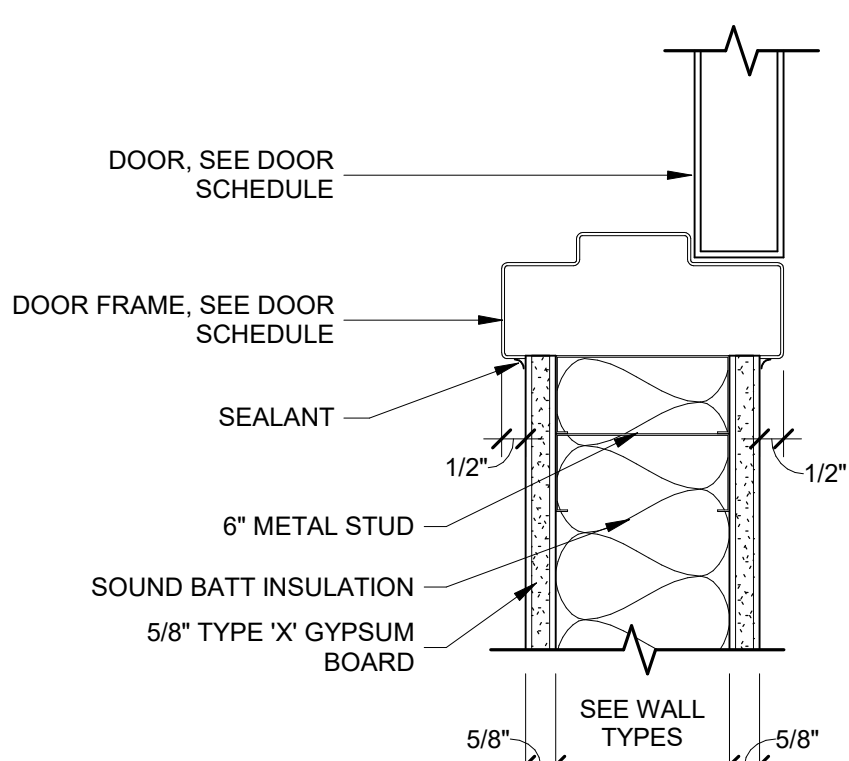
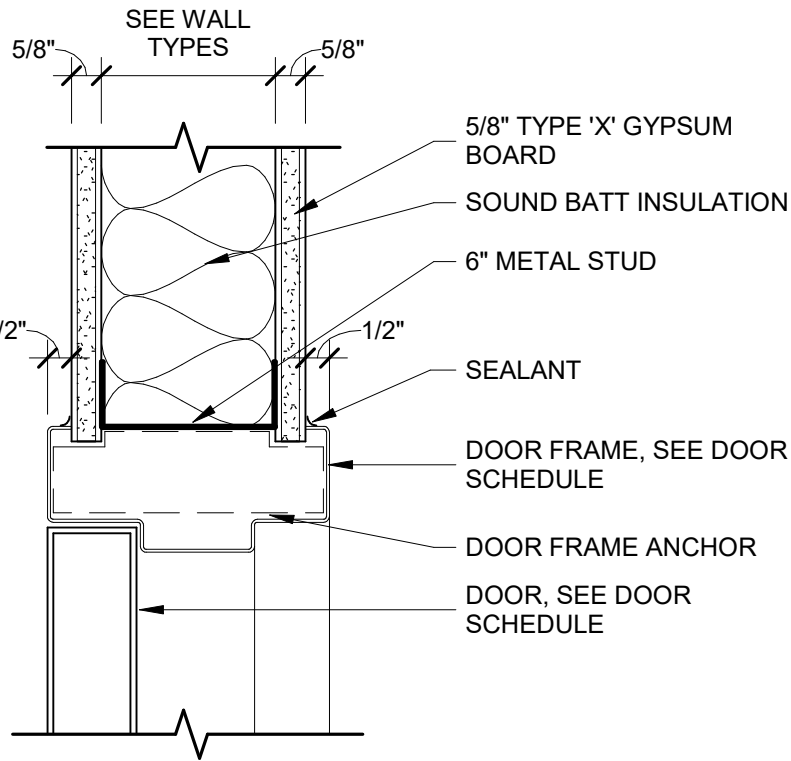
A6 S1 - TYPICAL CLASSROOM
SCALE: 6" = 1'-0"

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1 2 3 4 5 6

A B C D E

0' 1' 2' 3' 4' 5' 6' 7' 8' 9' 10'

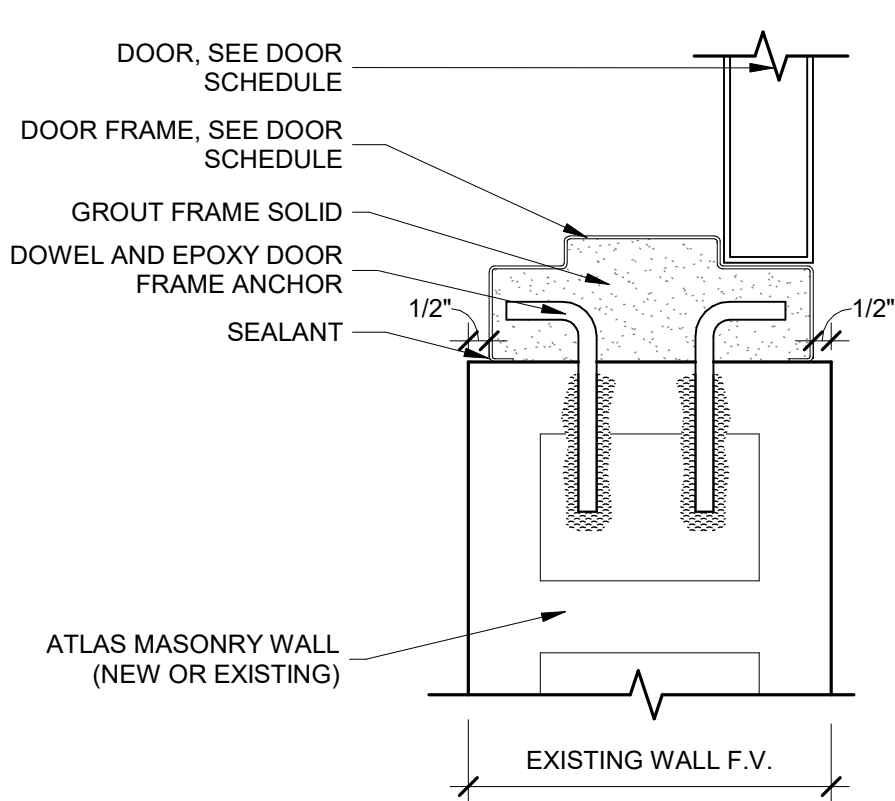
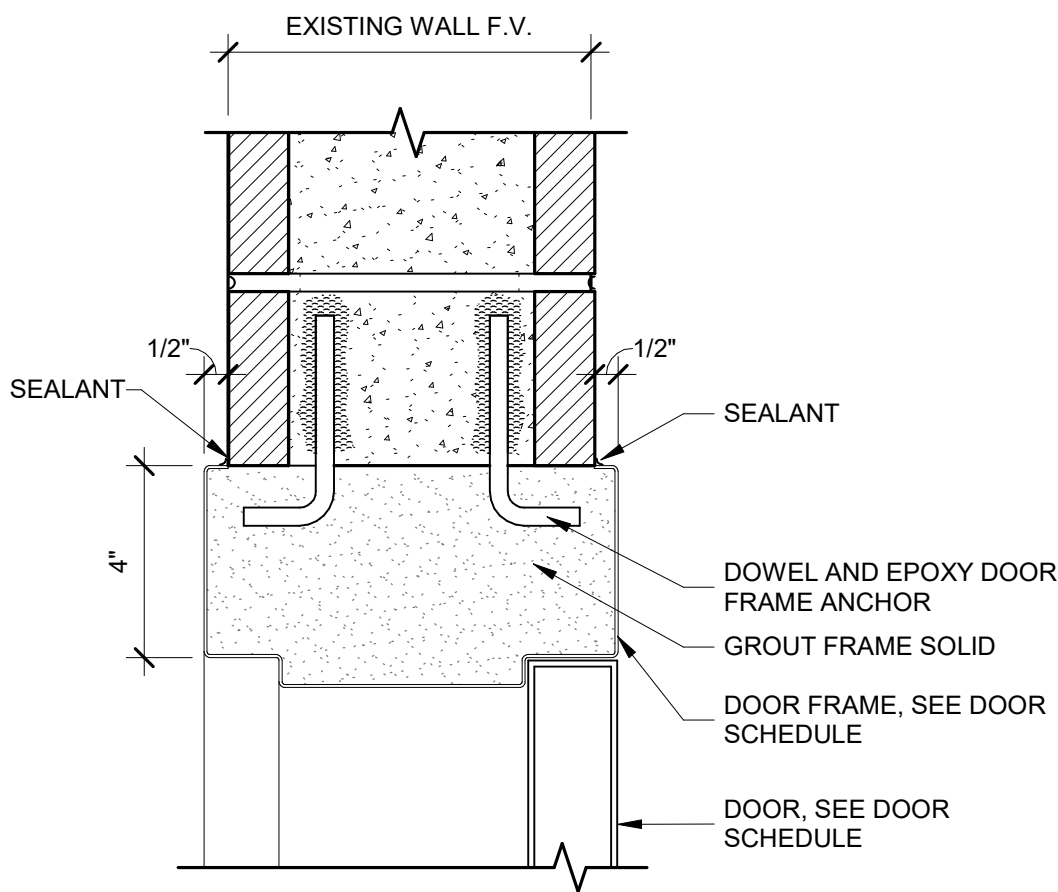


C1 DOOR HEAD DETAIL

SCALE: 3" = 1'-0"

C2 DOOR JAMB DETAIL

SCALE: 3" = 1'-0"

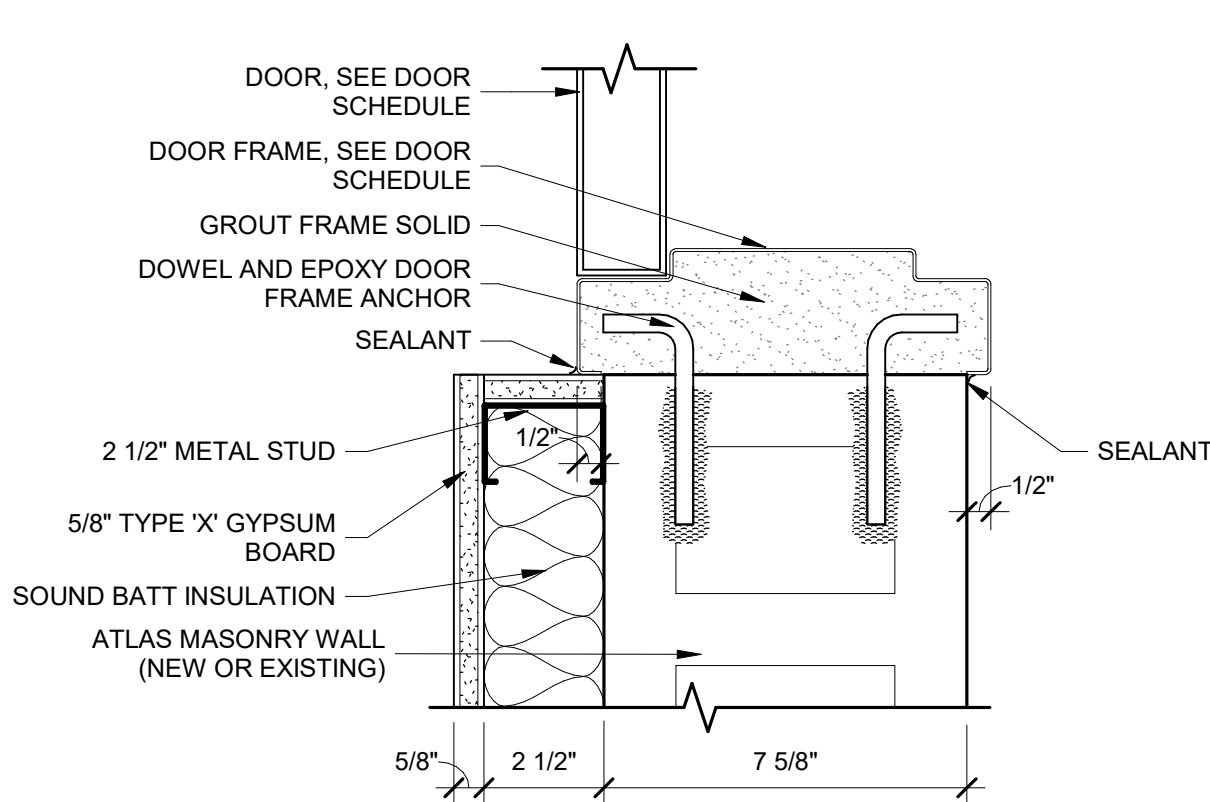
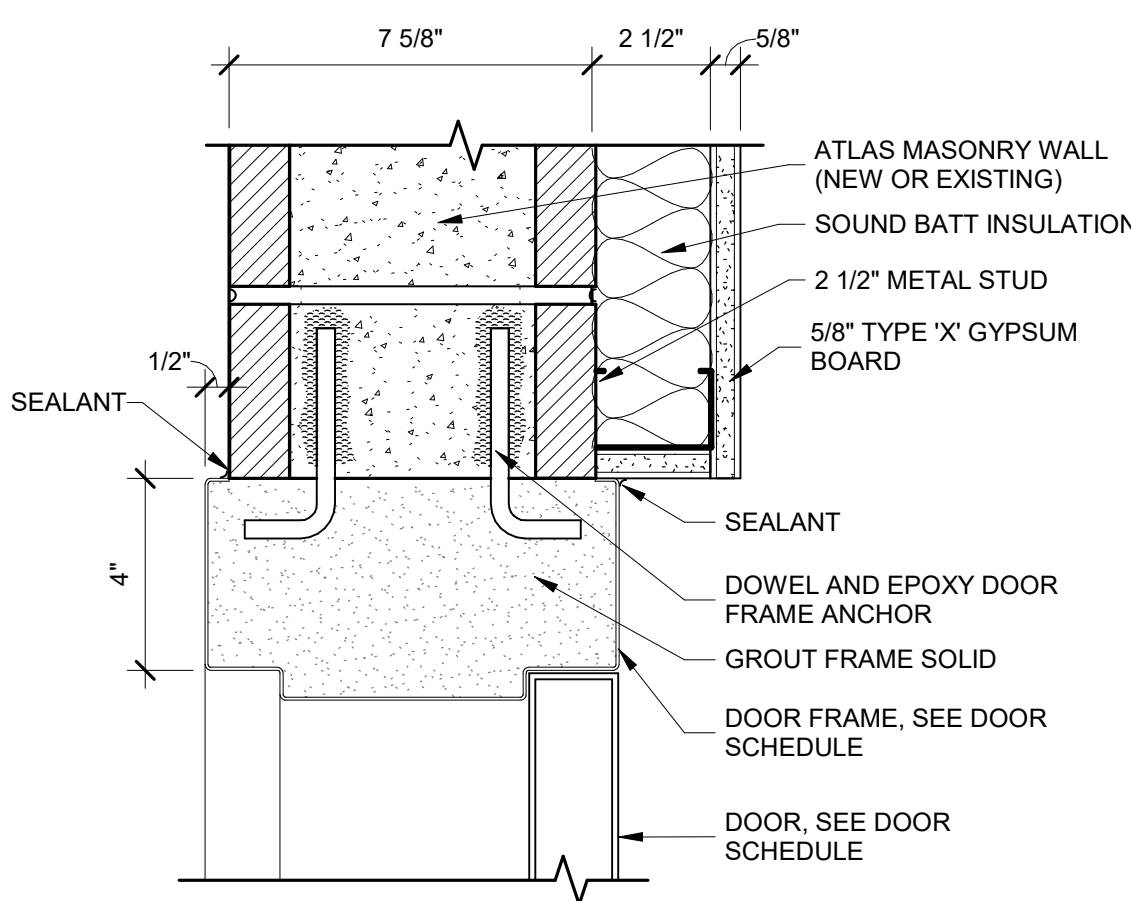


B1 DOOR HEAD DETAIL

SCALE: 3" = 1'-0"

B2 DOOR JAMB DETAIL

SCALE: 3" = 1'-0"



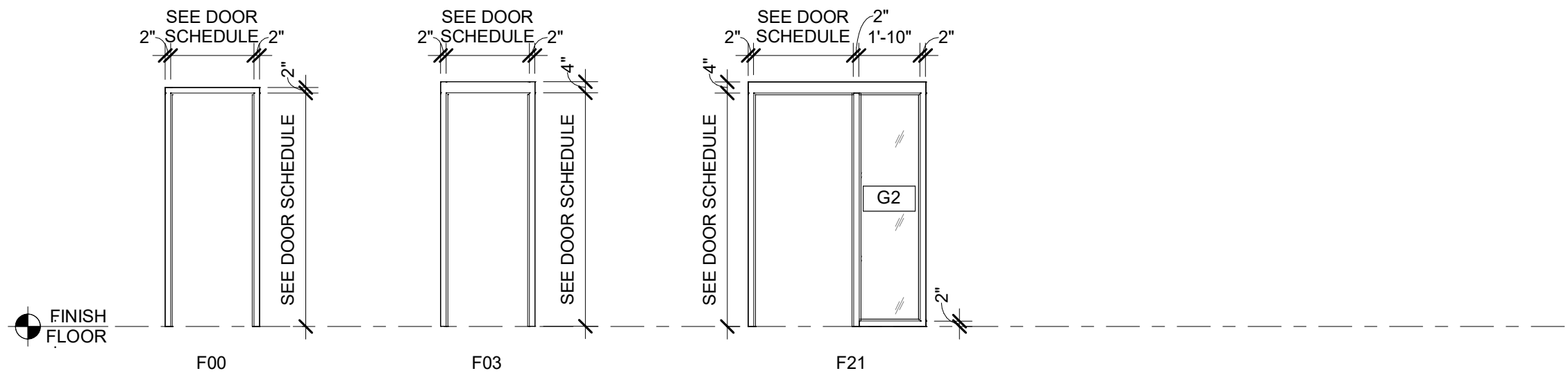
A1 DOOR HEAD DETAIL

SCALE: 3" = 1'-0"

A2 DOOR JAMB DETAIL

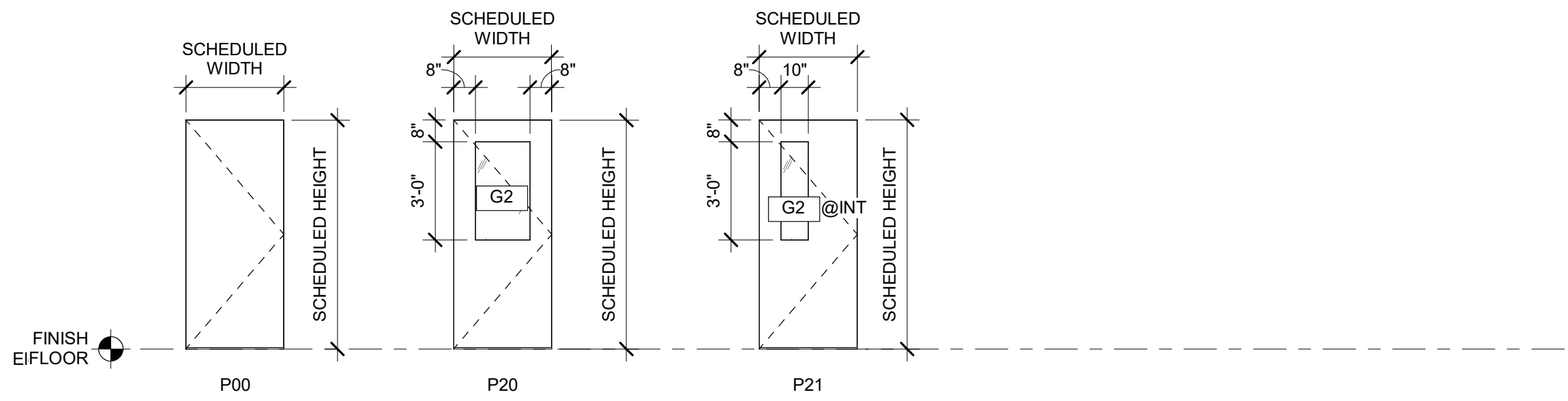
SCALE: 3" = 1'-0"

DOOR AND FRAME SCHEDULE												
DOOR NUMBER	SIZE		DOOR				FRAME				FIRE RATING (MINUTES)	NOTES
	WIDTH	HEIGHT	THICK	LEAF 1 TYPE	LEAF 2 TYPE	MATERIAL	TYPE	MATERIAL	JAMB DETAIL	HEAD DETAIL		
MAIN LEVEL												
A118B	3'-0"	7'-0"	1 3/4"	P00		WD	F03	HM	B2/A602	B1/A602	90	
B127A	3'-0"	7'-0"	1 3/4"	P21		EXIST - WD	F03	HM	B2/A602	B1/A602	0	
B127B	3'-0"	7'-0"	1 3/4"	P21		EXIST - WD	F03	HM	A2/A602	A1/A602	0	
B127C	3'-0"	7'-0"	1 3/4"	P21		WD	F00	HM	C2/A602	C1/A602	0	
B127D	3'-0"	7'-0"	1 3/4"	P21		WD	F00	HM	C2/A602	C1/A602	0	



DOOR FRAMES - HOLLOW METAL

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



DOOR PANELS

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

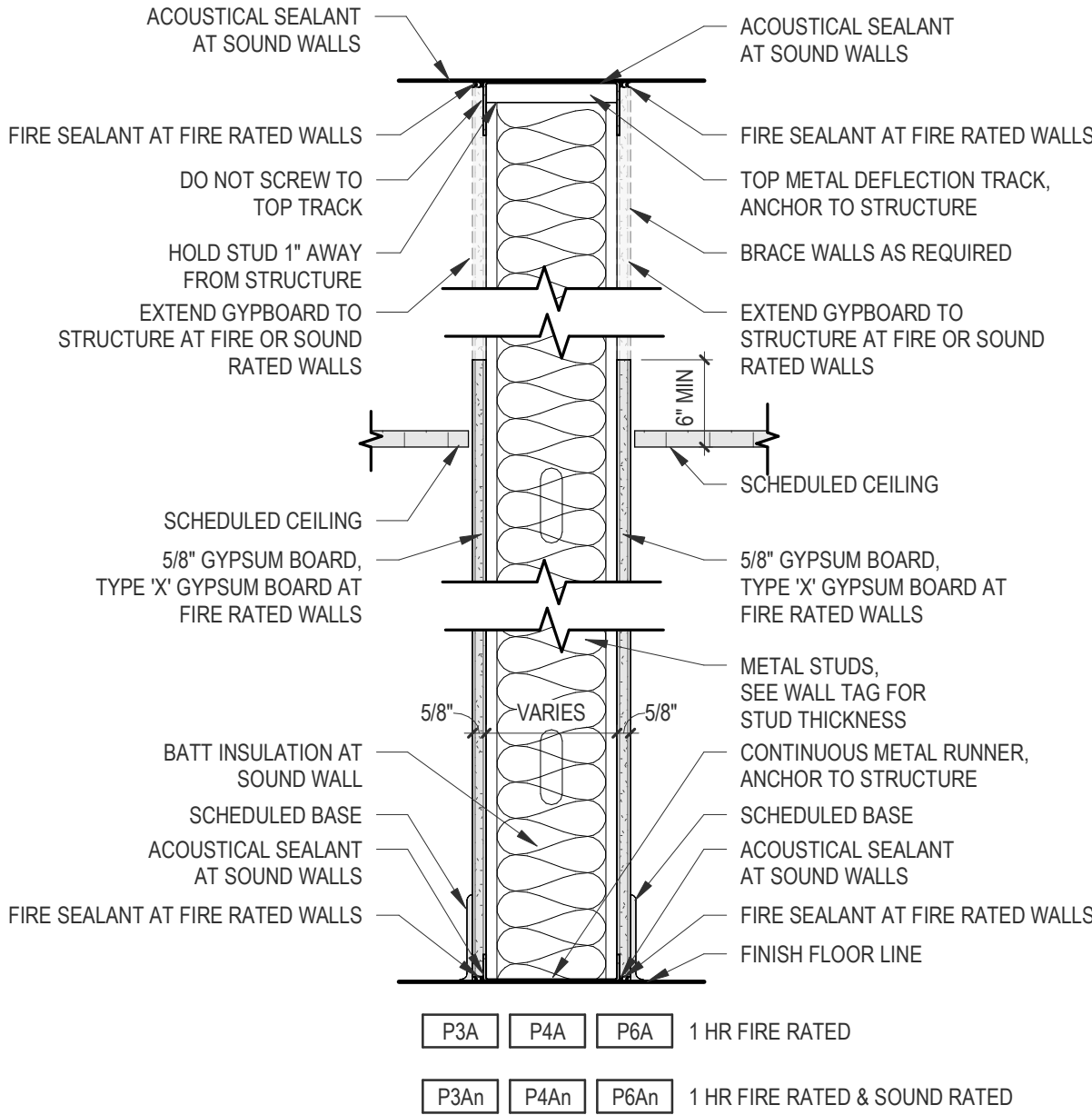
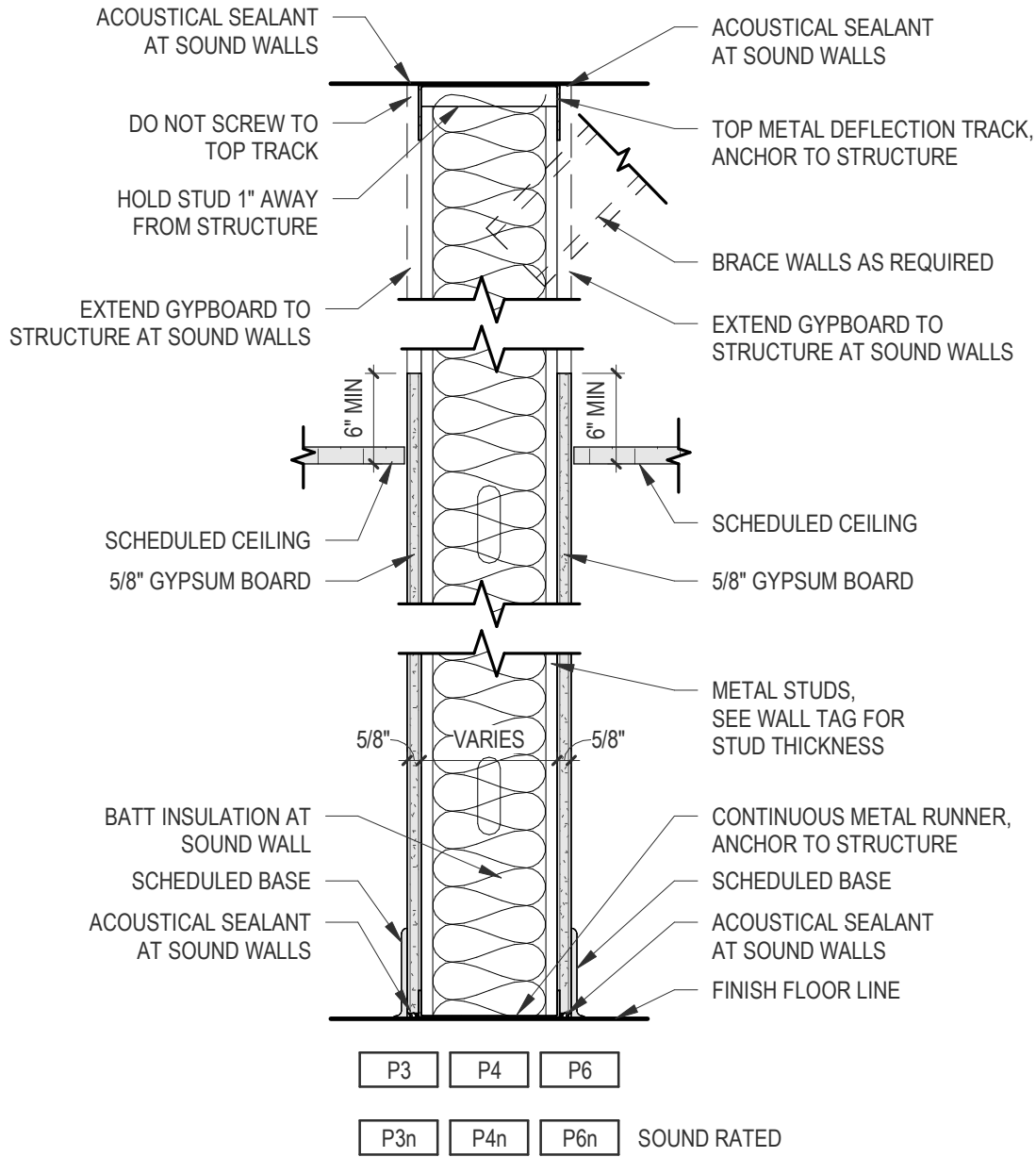
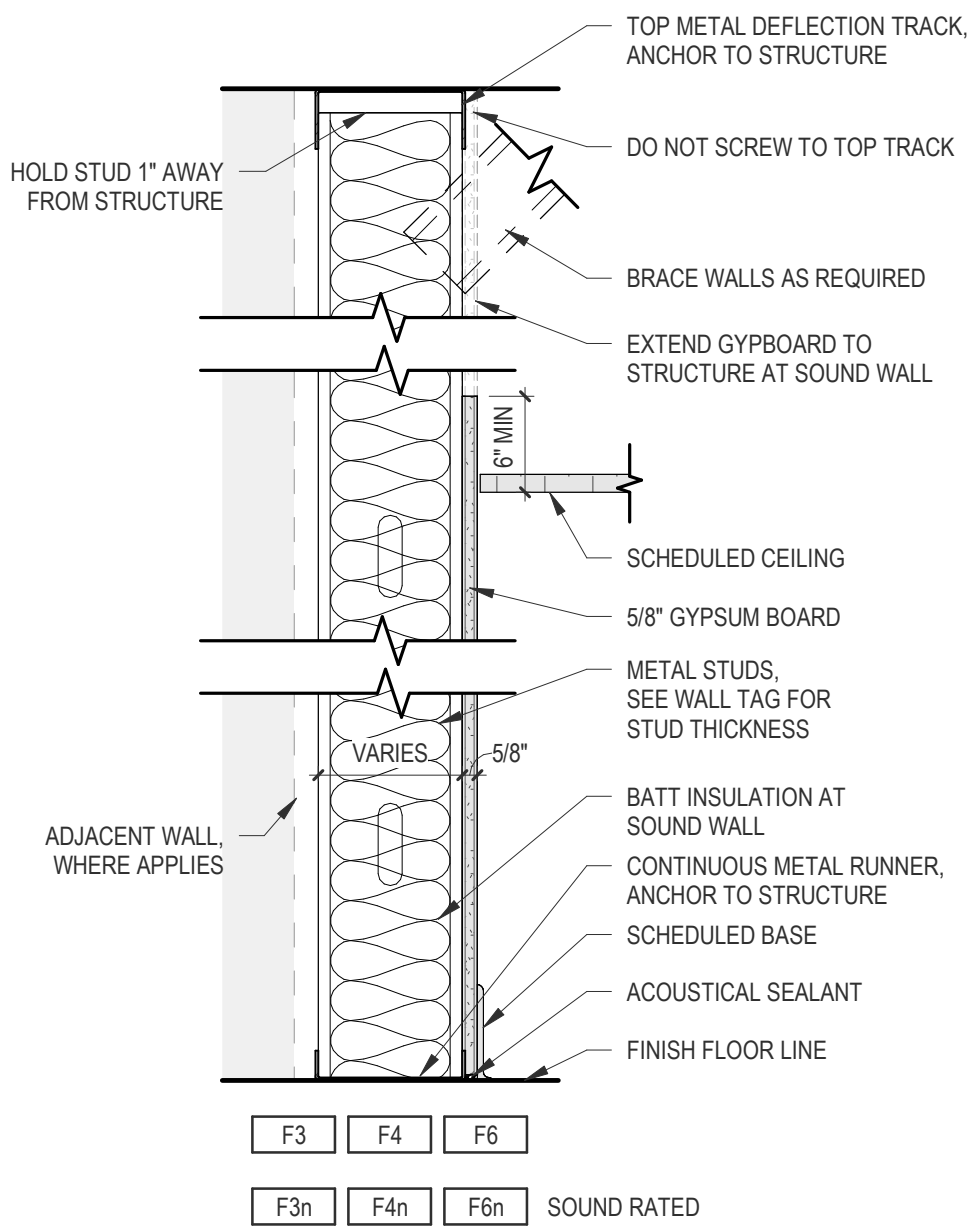
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A B C D E

1 2 3 4 5 6



REFERENCE NOTES



A1 INTERIOR WALL TYPES

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

INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - MARCH 21, 2025

DATE REVISION

PROJECT NUMBER 24038

WALL
TYPES

A650

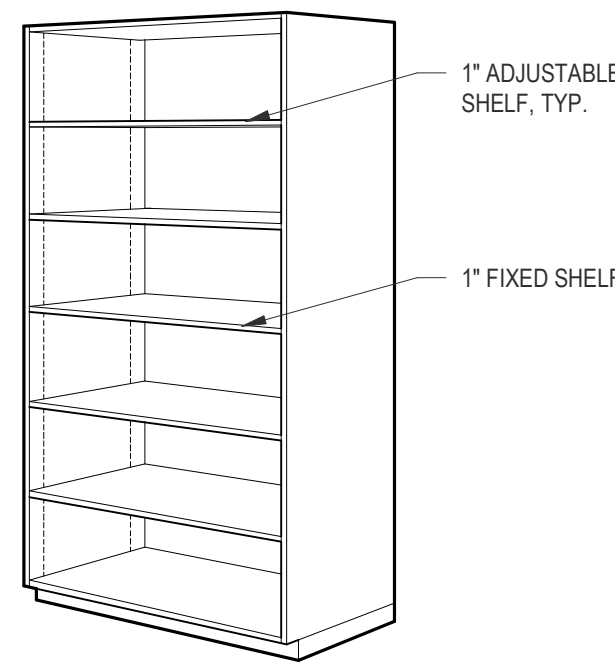
FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM

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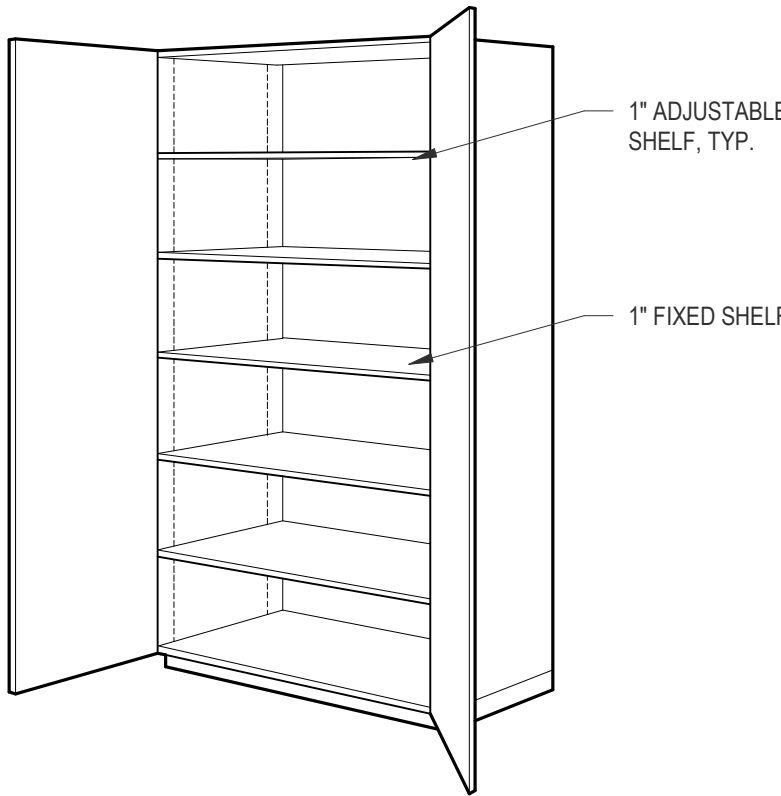
A B C D E



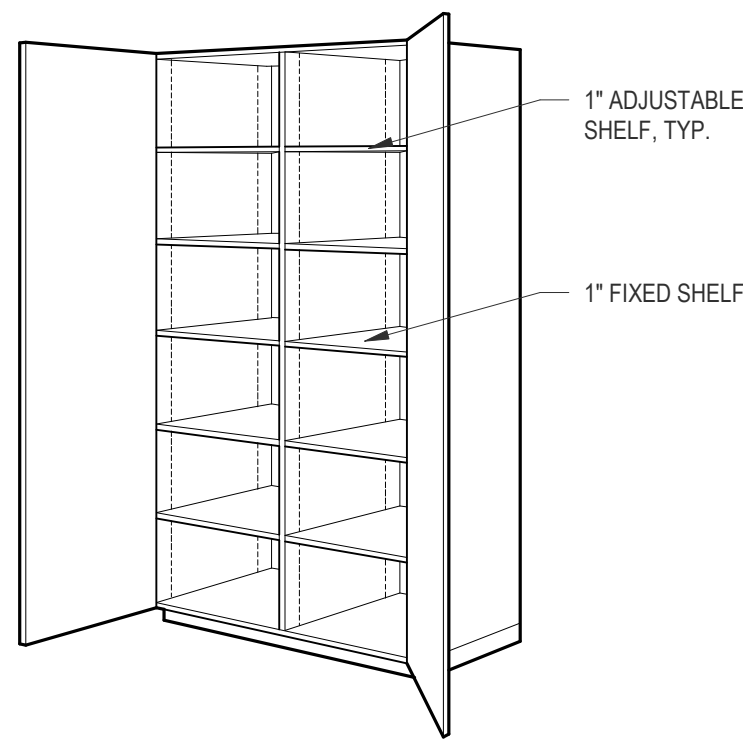
REFERENCE NOTES



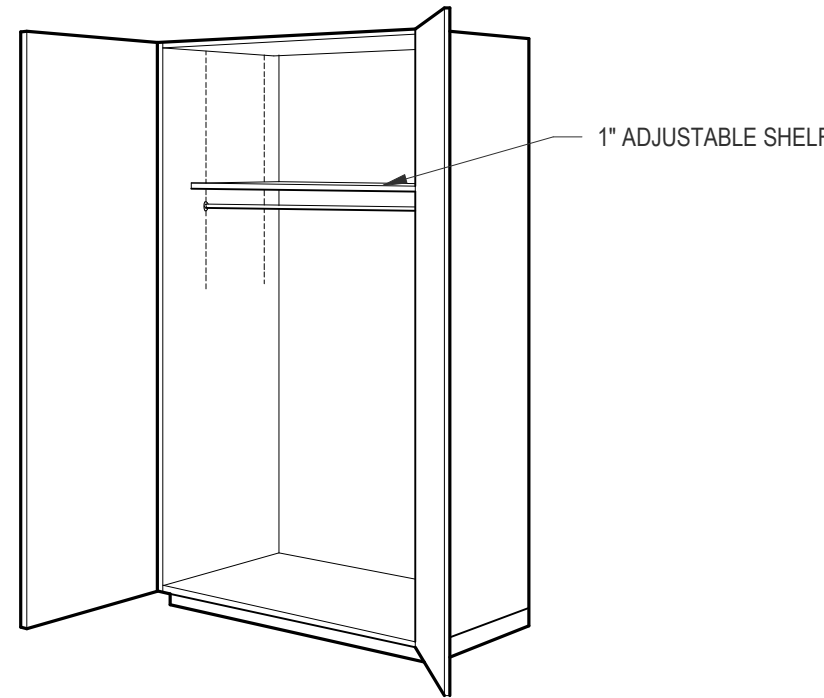
400
FULL HEIGHT CABINET - OPEN, 1 FIXED SHELF,
4 ADJUSTABLE SHELVES



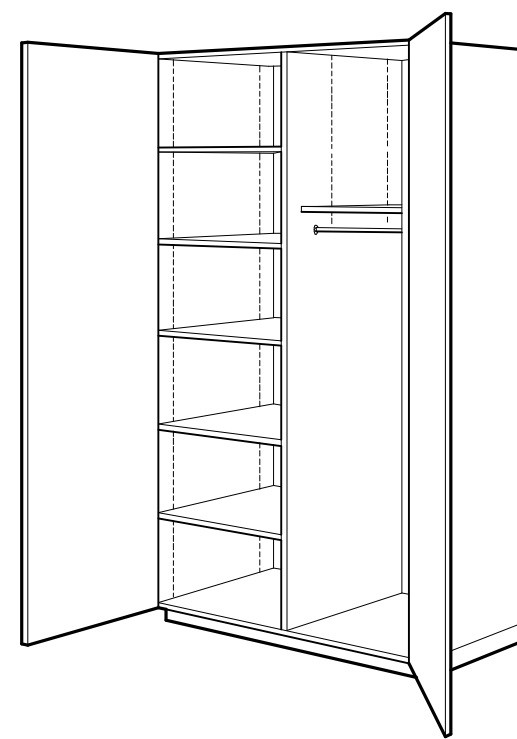
402
FULL HEIGHT CABINET - 1 FIXED SHELF,
4 ADJUSTABLE SHELVES



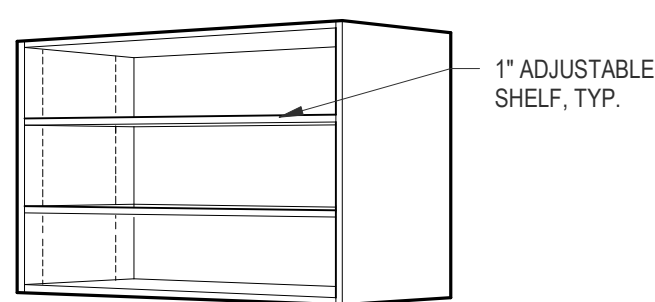
412
FULL HEIGHT CABINET - VERTICAL DIVIDER,
5 ADJUSTABLE SHELVES



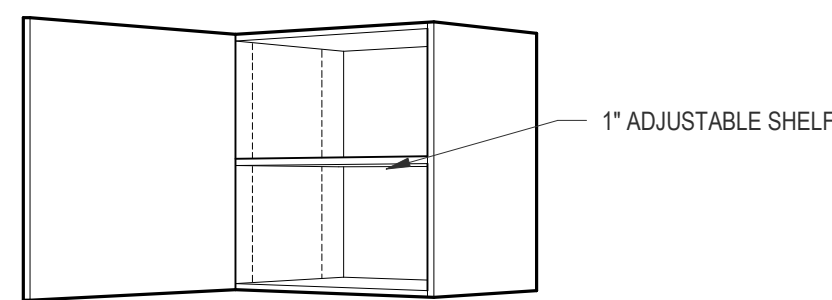
502
WARDROBE - 1 ADJUSTABLE SHELF,
1 HANGING ROD



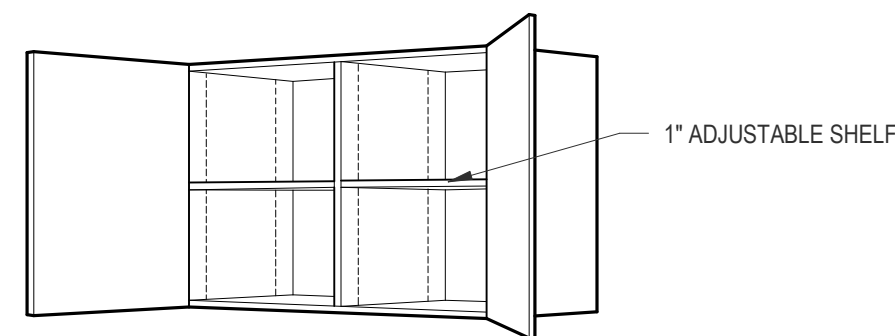
511
WARDROBE - LEFT: 5 ADJUSTABLE SELVES, FIXED
VERTICAL DIVIDER, RIGHT: 1 ADJUSTABLE SHELF,
1 HANGING ROD, LOCKABLE



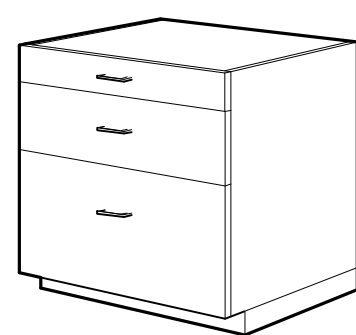
300
WALL HUNG CABINET - OPEN, 2 ADJUSTABLE SHELVES



301
WALL HUNG CABINET - 2 DOORS, 1 ADJUSTABLE SHELF



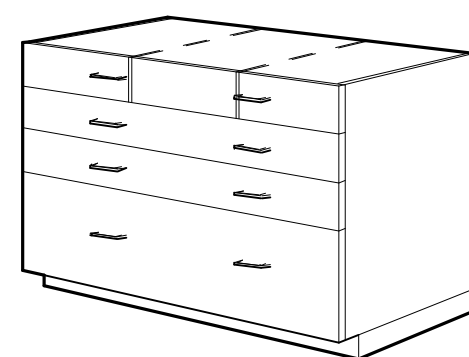
312
WALL HUNG CABINET - 2 DOORS, FIXED MIDDLE
DIVIDER, 2 ADJUSTABLE SHELVES



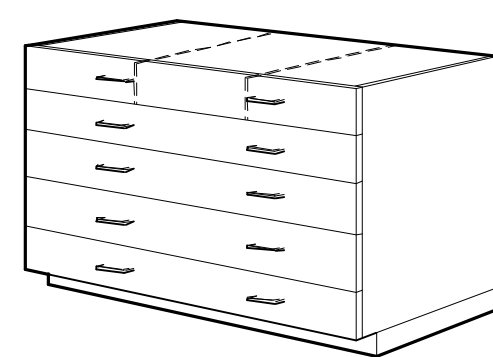
230
FILE DRAWERS W/ FULL EXTENSION SLIDES
AND FILE FOLLOWER OR HANGING SYSTEM



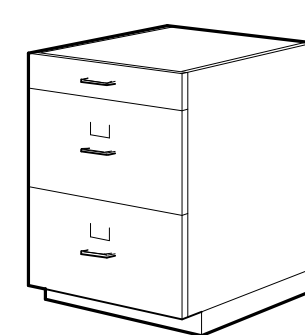
231
FILE DRAWERS W/ FULL EXTENSION SLIDES
AND FILE FOLLOWER OR HANGING SYSTEM



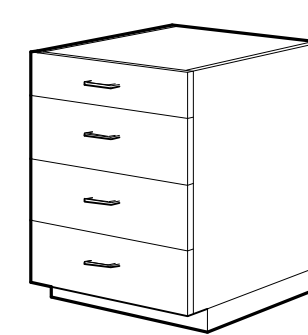
240
BASE CABINET - TOP DRAWER DIVIDED INTO
THREE EQUAL SPACES LEFT TO RIGHT



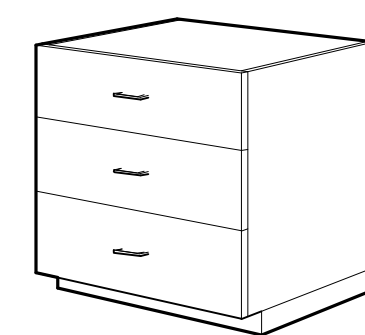
250
BASE CABINET - TOP DRAWER DIVIDED INTO
THREE EQUAL SPACES LEFT TO RIGHT



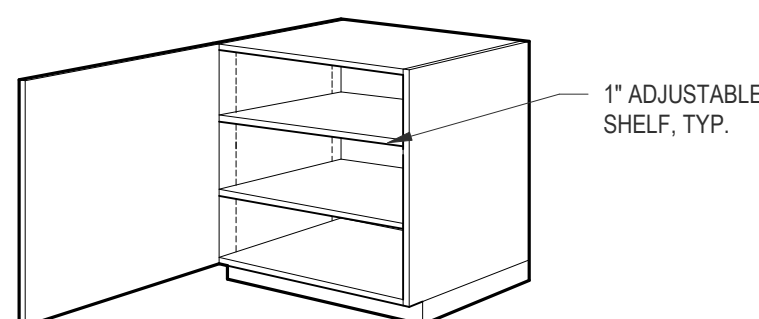
253
FILE DRAWERS W/ FULL EXTENSION SLIDES
AND FILE FOLLOWER OR HANGING SYSTEM



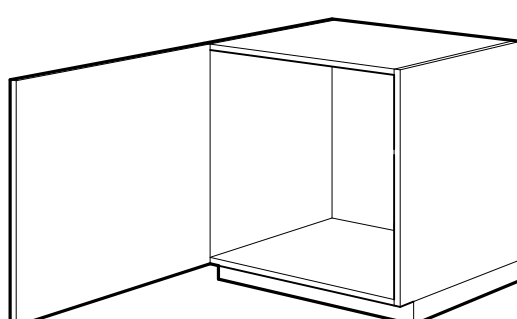
254
BASE CABINET - 1 TOP DRAWER, 3 EQUAL DRAWERS



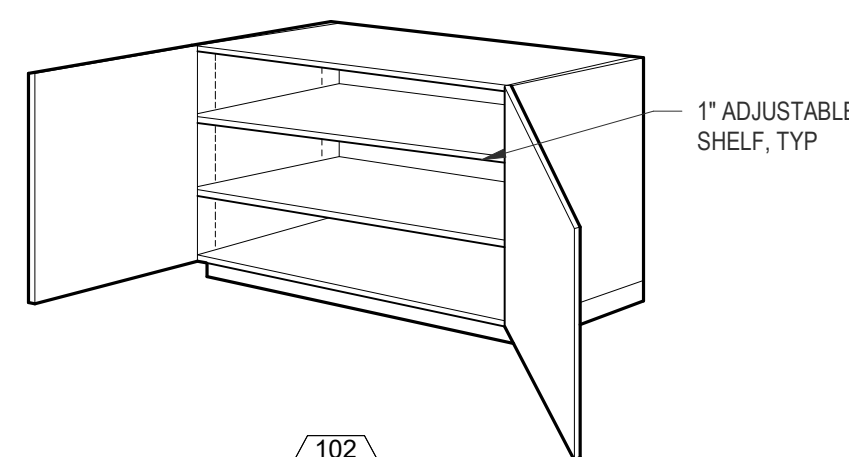
255
BASE CABINET - 3 EQUAL DRAWERS



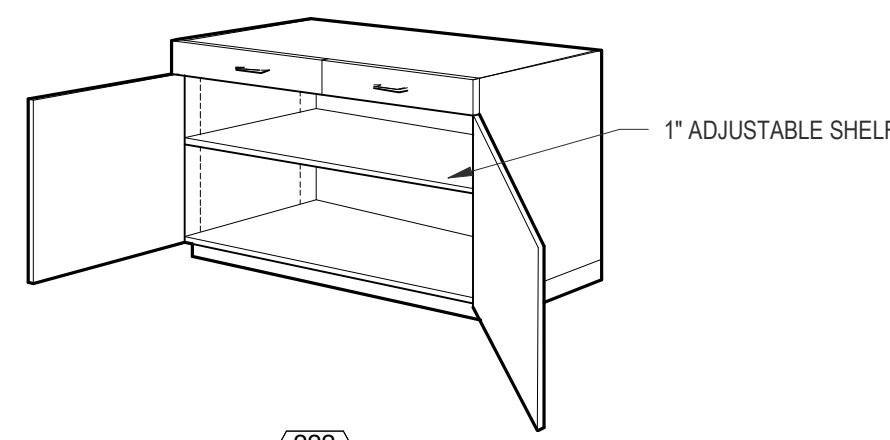
101
BASE CABINET - SINGLE DOOR, 2 ADJUSTABLE SHELVES



101A
BASE CABINET - SINGLE DOOR, NO SHELF



102
BASE CABINET - DOUBLE DOORS, 2 ADJUSTABLE SHELVES



222
BASE CABINET - 2 DOORS, 2 TOP DRAWERS

A1 MILLWORK TYPICAL CABINETS

SCALE: 6" = 1'-0"

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INDIAN HILLS BAND & CHORAL REMODEL

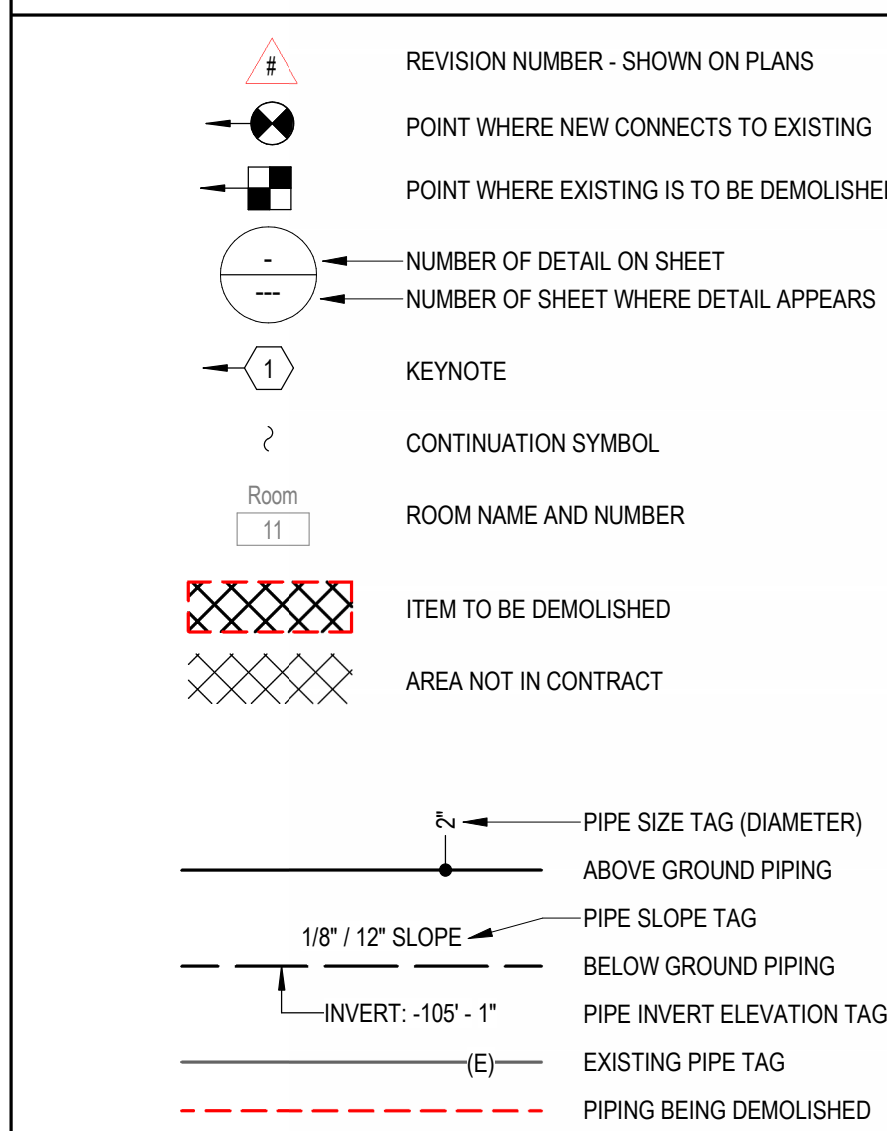
1180 EAST SANDERS ROAD, SANDY, UT 84094

CANYONS SCHOOL DISTRICT

CONSTRUCTION DOCUMENTS - MARCH 21, 2025

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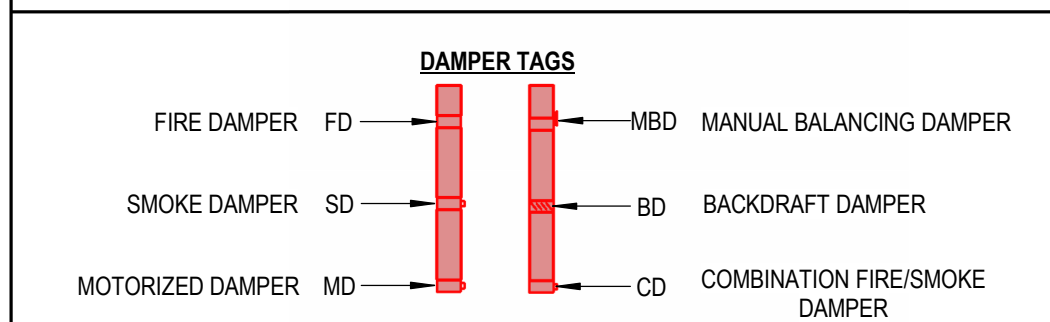
GENERAL MECHANICAL SYMBOLS



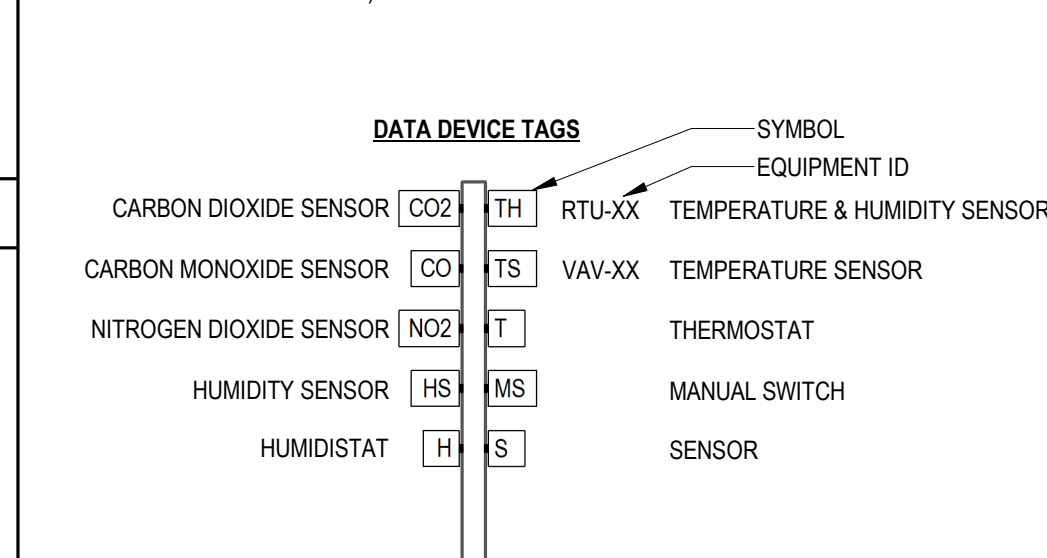
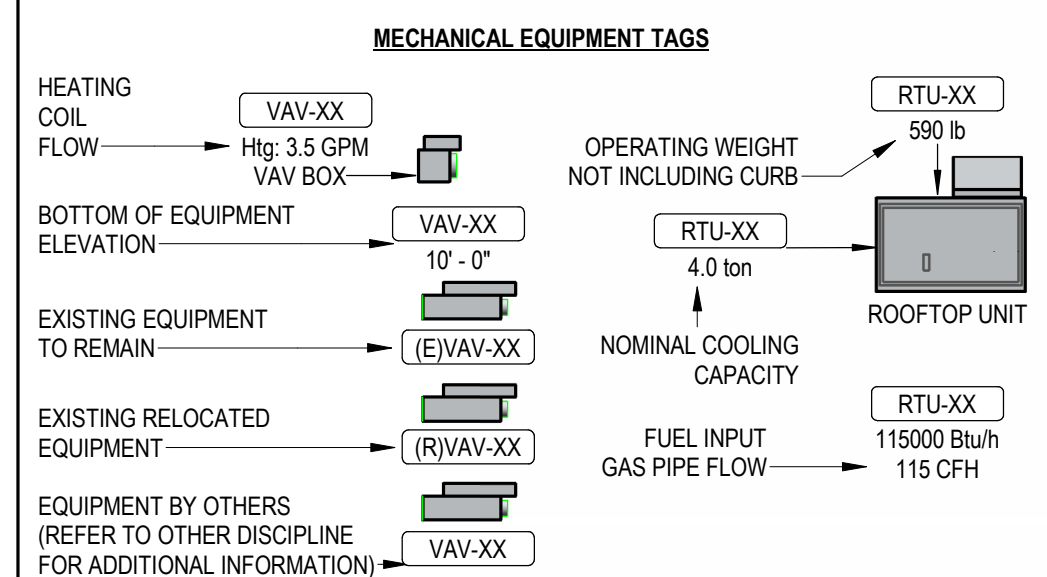
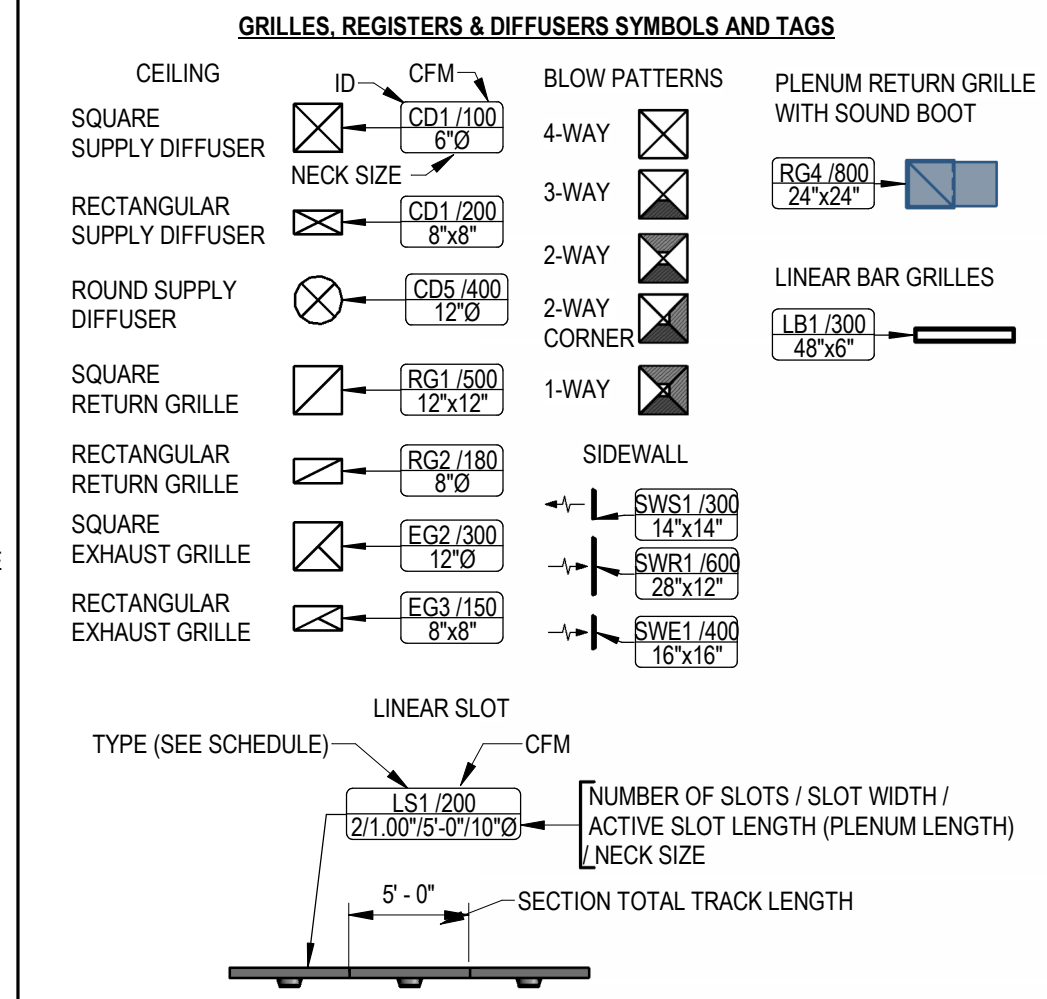
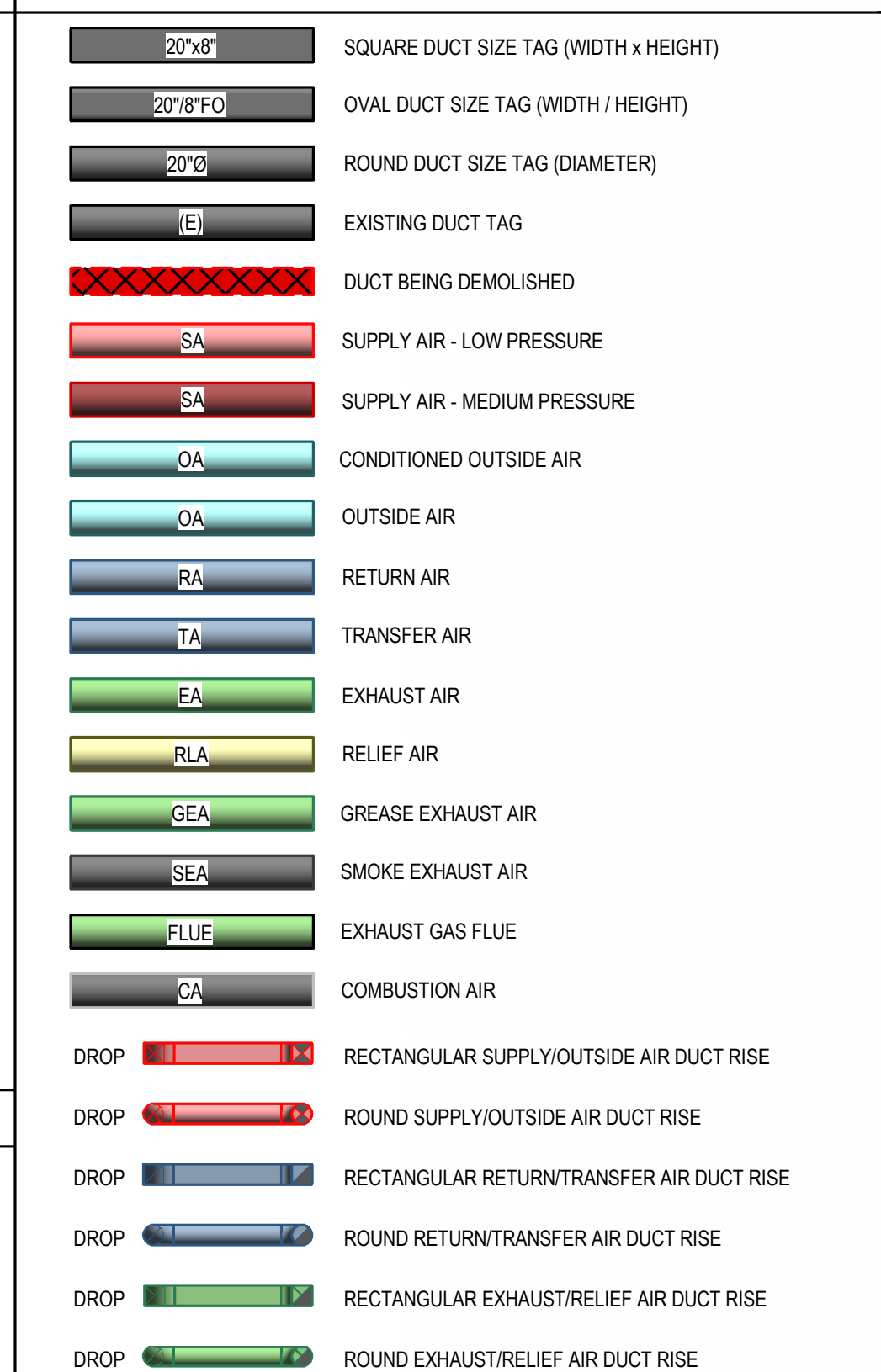
ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MJA	MAKE-UP AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
D	DEGREE	O	OXYGEN
DB	DRY BULB	OA	OUTSIDE AIR
DCW	DOMESTIC COLD WATER	PD	PRESSURE DROP
DH	DOMESTIC HOT WATER	PV	POST INDICATOR VALVE
DN	DOWN	PLB	PLUMBING
DN	DOWN	PRESS	PRESSURE
DW	DISTILLED WATER	PRV	PRESSURE REDUCING VALVE
EA	EACH	PSI	POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	R	DUCT RISER
EWC	ELECTRIC WATER COOLER	RA	RETURN AIR
EWT	ENTERING WATER TEMPERATURE	RCP	RADIANT CEILING PANEL
EA	EXHAUST AIR	RD	ROOF DRAIN OVERFLOW
EXIST	EXISTING	REC	RECESSED
F	DEGREES FAHRENHEIT	RED	REDUCER
FCO	FLOOR CLEAN OUT	RH	RELATIVE HUMIDITY
FD	FLOOR DRAIN	RLA	RELIEF AIR
FD	FIRE DAMPER	RM	ROOM
FV	FIRE DEPARTMENT VALVE	RM	ROOM
FL	FLOOR	RPM	REVOLUTIONS PER MINUTE
FO	FUEL OIL	RW	RAIN WATER
FOV	FUEL OIL VENT	SF	SQUARE FOOT
FOR	FUEL OIL RETURN	SA	SUPPLY AIR
FOS	FUEL OIL SUPPLY	SAN	SANITARY
FS	FLOOR SINK	SM	SQUARE FOOT
FPM	FEET PER MINUTE	SM	SURFACE MOUNT
FT	FOOT/FEET	TD	TRENCH DRAIN
FTR	FIN/TUBE RADIATION	TDR	TEMPERATURE DROP
GAL	GALLON	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UG	UNDERGROUND
GPM	GALLONS PER MINUTE	VAC	VACUUM
GW	GREASE WASTE	V	VENT
HB	HOSE BIB	VAV	VARIABLE AIR VOLUME
HP	HORSE POWER	VENT	VENTILATION
HTG	HEATING	VTR	VENT THROUGH ROOF
HTR	HEATER	W	WASTE
HYD	HYDRANT	WB	WET BULB
ID	INDIRECT	WCO	WALL CLEAN OUT
IN	INCH	WH	WALL HYDRANT
INV	INVERT		
LB	POUND		
LBHR	POUNDS PER HOUR		
LAT	LEAVING AIR TEMPERATURE		
LP	LOW PRESSURE		
LPG	LIQUEFIED PETROLEUM GAS		

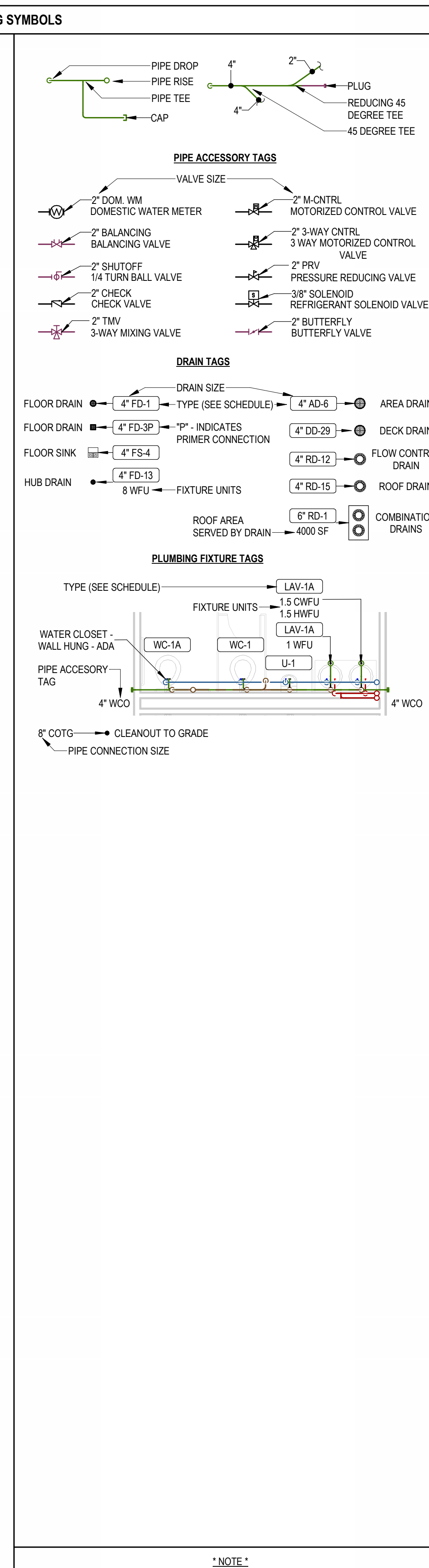
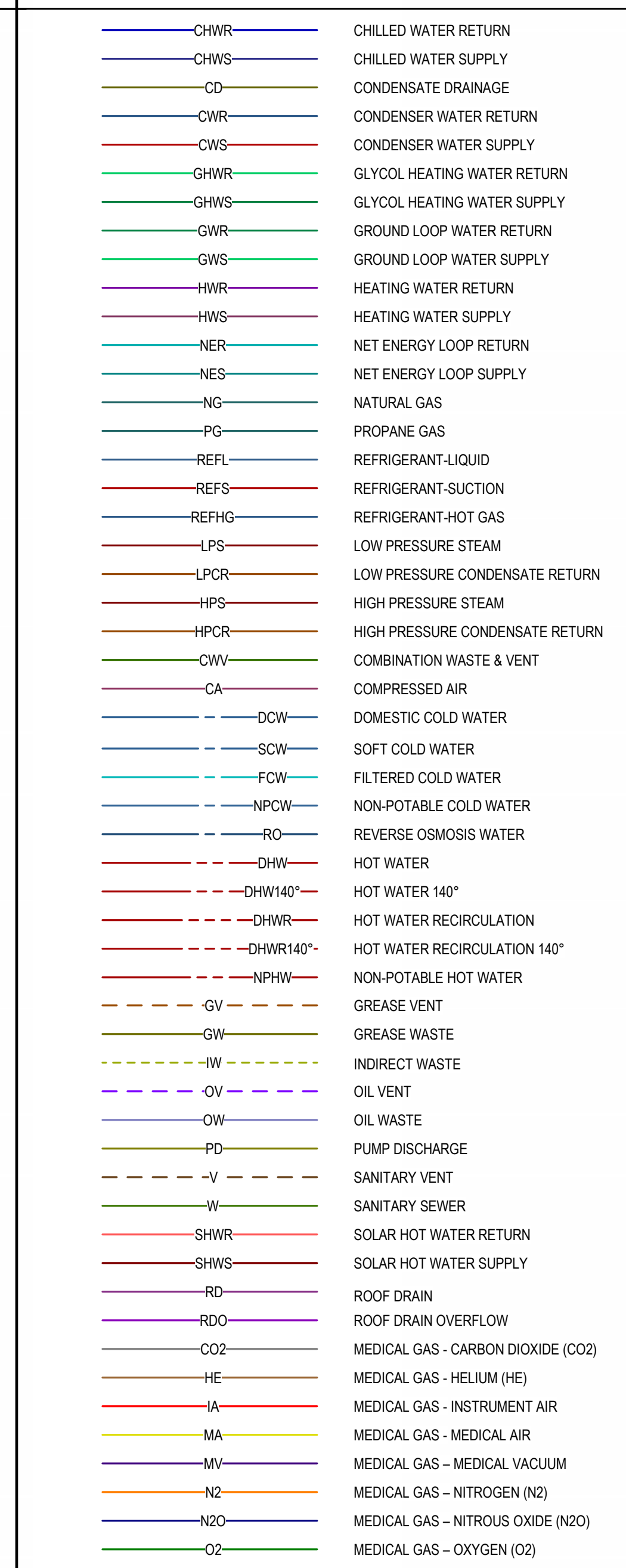
HVAC SYMBOLS



HVAC SYMBOLS



PIPING SYMBOLS



* NOTE: THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

MECHANICAL SHEET INDEX

M000	MECHANICAL TITLE SHEET
M001	MECHANICAL GENERAL NOTES
P000	PLUMBING TITLE SHEET
MD100	OVERALL MAIN LEVEL MECHANICAL DEMO PLAN
M100	OVERALL MAIN LEVEL MECHANICAL HVAC PLAN
M101	BAND MECHANICAL HVAC PLAN
M102	CHORAL MECHANICAL HVAC PLAN
M601	MECHANICAL DETAILS & SCHEDULES
P100	OVERALL MAIN LEVEL PLUMBING PLAN
P101	BAND MAIN LEVEL PLUMBING PLAN

MECHANICAL GENERAL NOTES	
1.	COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
2.	SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK, TYPICAL.
3.	BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE OF THE DIFFUSERS, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
4.	COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS WITH LATEST REVISION OF ARCHITECTURAL ELEVATION AND FURNISHINGS PLANS, TYPICAL.
5.	THE MECHANICAL CONTRACTOR SHALL PROVIDE FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED TO MEET THE INTEGRITY OF ALL SMOKE AND FIRE PARTITIONS. THE CONTRACTOR SHALL REFER TO THE LATEST ARCHITECTURAL LIFE SAFETY PLANS FOR ALL FIRE AND SMOKE PARTITION LOCATIONS. DAMPERS ARE TO BE PROVIDED WITH SHUTOFF TEST SWITCH AT EACH LOCATION.
6.	PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK AT ELBOWS OR TEES, TYPICAL.
7.	INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS, MEETING ALL MANUFACTURERS REQUIRED CLEARANCES ON EACH SIDE. SEE DETAILS, TYPICAL.
8.	DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR EXTENT OF DUCT INSULATION AND LINER AND ADJUST SHEET METAL DIMENSION.
9.	PROVIDE AND INSTALL REMOTE DAMPER OPERATORS FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS. SEE MECHANICAL SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS, TYPICAL.
10.	PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS AND BALANCING DAMPER AT ALL BRANCH CONNECTIONS TO LOW PRESSURE DUCTWORK. PROVIDE BALANCING DAMPERS AT EACH BRANCH TAKE OFF TO SERVE DIFFUSER OR GRILLE AS WELL AS WHERE INDICATED.
11.	PROVIDE AND INSTALL HIGH EFFICIENCY OR CONICAL TAKE-OFFS AT ALL BRANCH CONNECTIONS TO MEDIUM PRESSURE DUCTWORK.
12.	WHERE DUCTWORK CROSSES, SUPPLY DUCTWORK IS USUALLY BELOW RETURN AND EXHAUST DUCT. RETURN DUCTWORK IS USUALLY BELOW EXHAUST DUCTS.
13.	AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK, CONTRACTOR TO FABRICATE TRANSITION BOOT FROM FLEX CONNECTION TO DIFFUSER OR GRILLE WITH BALANCING DAMPER, TYPICAL.
14.	THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS FOR ALL FIRE, SMOKE AND COMBINATION FIRE/SMOKE DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. FIELD VERIFY EXACT INSTALLATION LOCATIONS PRIOR TO COMMENCING WORK AND COORDINATE INSTALLATIONS WITH LATEST ARCHITECTURAL REFLECTED CEILING PLANS.
15.	ALL VAV BOXES TO HAVE REHEAT COILS, EXCEPT AS NOTED. PROVIDE EQUIPMENT TAG TO MATCH SCHEDULE. PROVIDE A MINIMUM OF TWO DUCT DIAMETERS OF STRAIGHT ROUND DUCT TO INLET OF VAV BOX. BOX SHALL BE HARD CONNECTED (CONICAL) TO MEDIUM PRESSURE DUCT, TYPICAL.
16.	PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS ABOVE HARD CEILINGS. PROVIDE MINIMUM 24" X 24".
17.	FLEX DUCT IS REQUIRED FOR ALL DIFFUSERS AND GRILLES INSTALLED IN LAY-IN CEILINGS. FOR DIFFUSERS AND GRILLES IN HARD LID CEILINGS, THE DUCTWORK SHALL BE EXTENDED ALL THE WAY TO THE DIFFUSER AND SHALL BE CONNECTED WITH A HARD CONNECTION OR A FLEX DUCT CONNECTION WITH A MUD RING AND LAY-IN DIFFUSER AS SHOWN ON PLANS.
18.	THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
19.	PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS ABOVE CEILING. LOCATE IN ACCESSIBLE LOCATION. WHERE THERE ARE HARD CEILINGS THE CONTRACTOR SHALL PROVIDE 24" X 24" ACCESS DOOR.
20.	SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
21.	CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" AFF. A MINIMUM OF 8" FROM LIGHT SWITCH, UNLESS OTHERWISE NOTED ON THE ARCHITECTS ELEVATIONS. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
22.	REFER TO MECHANICAL PIPING OR ZONING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
23.	CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPE SHALL BE TYPE "L" COPPER UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.
24.	PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT THAT IS FLOOR MOUNTED. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.
25.	ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
26.	THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

MECHANICAL PIPING GENERAL NOTES	
1.	PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2.	UNLESS OTHERWISE NOTED, ALL MECHANICAL PIPING IS OVERHEAD TO RUN ABOVE DUCTWORK AND TIGHT TO UNDERSIDE OF STRUCTURE.
3.	INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
4.	ALL VALVES SHALL BE INSTALLED SO THAT VALVES REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.
5.	PROVIDE AIR VENT AT HIGH POINT OF EACH DROP IN THE HEATING AND CHILLED WATER PIPING SYSTEM.
6.	ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION AND TAGGED.
7.	PROVIDE ISOLATION VALVES AT EACH EXIST/ENTRANCE INTO SHAFT WHETHER OR NOT SHOWN.
8.	COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS. MOUNT THERMOSTAT AT HEIGHT AS SPECIFIED ON ARCHITECTURAL PLANS OR SPECIFICATIONS.

PROJECT GENERAL NOTES	
1.	THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
2.	REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
3.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE TENANT SPACE AND WITHIN CLOSE PROXIMITY TO THE TENANT SPACE. THE CONTRACTOR WILL FIELD VERIFY AS MUCH AS IS REASONABLE BEFORE THE FINAL BID. AFTER THE FINAL BID THE CONTRACTOR WILL NOTIFY THE OWNER, ARCHITECT, AND MECHANICAL DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF EXISTING CONDITIONS THAT MAY AFFECT THE DESIGN.
4.	THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVERS AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES, AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
5.	WHERE FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSAID DRAINS AT COMPLETION OF CONSTRUCTION.
6.	COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILINGS, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
7.	THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
8.	FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
9.	LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
10.	ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
11.	COORDINATE INSTALLATION OF DUCTWORK, PIPING AND MECHANICAL EQUIPMENT WITH NEC CLEARANCES INCLUDING THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT. NO PIPING OR DUCTWORK TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S AND MCC'S. PROVIDE PANS IF REQUIRED UNDER PIPING.
12.	FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. REFER TO SPECIFICATION.
13.	PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
14.	TRANSITION PIPING AND DUCTWORK SIZES TO MATCH THE SIZE OF EQUIPMENT CONNECTION.
15.	REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING.
16.	ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
17.	FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
18.	INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
19.	MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
20.	INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
21.	LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT, AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, OFFSETS AND TRANSITIONS. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS TO AVOID INTERFERENCE IN THE FIELD.
22.	THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
23.	IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
24.	DETAILS REFERENCE ALL SHEETS.
25.	INSTALL ALL PIPING AND DUCTWORK WITHOUT FORCING OR SPRINGING.
26.	ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY WASTE, ROOF DRAIN, CAMPUS CHILLED OR HOT WATER, AND ANY OTHER UTILITY SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
27.	LOCATE VALVING, ACCESSORIES, AND EQUIPMENT IN ACCESSIBLE LOCATIONS. WHERE LOCATED ABOVE HARD CEILING PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24" X 24". COORDINATE EXACT LOCATION AND STYLE WITH ARCHITECT. EQUIPMENT SHALL BE LOCATED IN THE CEILING CAVITY SO IT CAN BE SAFELY SERVICED FROM SOMEONE STAND ON A LADDER PLACED BELOW THE CEILING ACCESS.
28.	WHERE VALVING, ACCESSORIES, OR EQUIPMENT IS LOCATED IN A WALL, PROVIDE AN APPROPRIATELY SIZED ACCESS DOOR. COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
29.	CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
30.	CONTRACTOR TO PROVIDE DELEGATED DESIGN OF SEISMIC BRACING AS A DEFERRED SUBMITTAL. SEE SPECIFICATION 23 0548 - VIBRATION AND SEISMIC CONTROLS FOR HVAC.
31.	CONTRACTOR TO PROVIDE BIM COORDINATION AND VIRTUAL DESIGN AND CONSTRUCTION SERVICES TO A xxx LEVEL OF DETAIL. SEE SPECIFICATION 23 0099-BIM COORDINATION.
32.	MECHANICAL, PLUMBING, AND FIRE PROTECTION CONTRACTOR SHALL REFER TO THE PROJECT STRUCTURAL DRAWINGS AND NOTES TO DETERMINE HANGER PLACEMENT.

NOTE
ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.



1 MAIN LEVEL MECHANICAL DEMO PLAN OVERALL
MD100 3/64" = 1'-0"

KEYNOTES



△ DATE REVISION

PROJECT NUMBER 24038

OVERALL
MAIN
LEVEL
MECHANICAL
DEMO
PLAN
MD100

INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - MARCH 21, 2025



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1
M100
MAIN LEVEL MECHANICAL HVAC PLAN OVERALL
3/64" = 1'-0"



PROJECT NUMBER 24038

OVERALL
MAIN
LEVEL
MECHANICAL
HVAC
PLAN
M100



DATE REVISION

INDIAN HILLS BAND & CHORAL REMODEL
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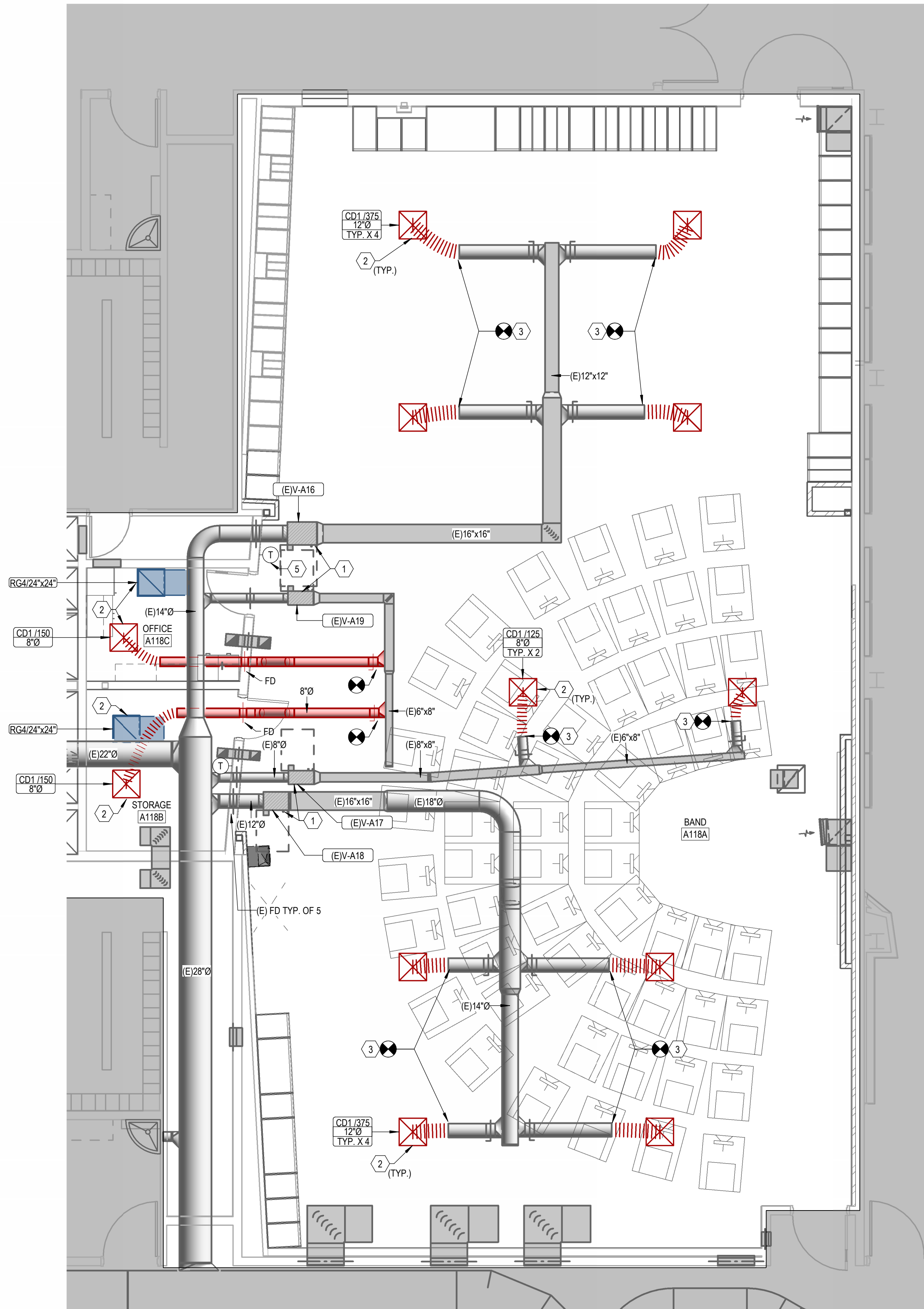
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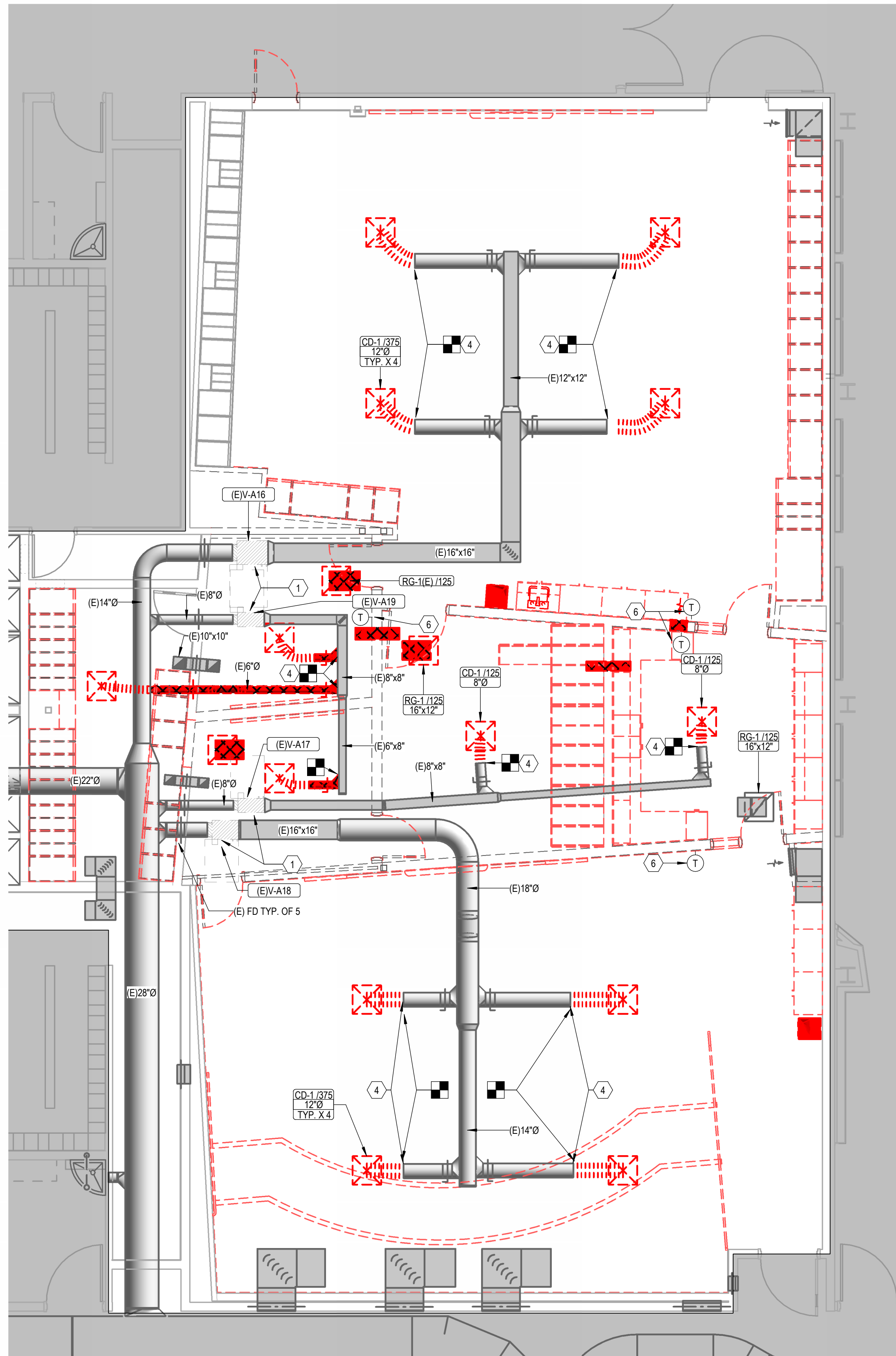
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1 MAIN LEVEL MECHANICAL HVAC PLAN BAND
3/16\"/>



2 MAIN LEVEL MECHANICAL DEMO PLAN BAND
3/16\"/>

- KEYNOTES**
- 1 EXISTING VAV BOX TO REMAIN.
 - 2 COORDINATE DIFFUSER PLACEMENT WITH NEW CEILING GRID.
 - 3 CONNECT NEW FLEX DUCT TO EXISTING DUCT.
 - 4 DEMO DUCT BACK TO THIS POINT AND CAP.
 - 5 THERMOSTAT TO CONTROL V-A16, V-A17, AND V-A18 TOGETHER.
 - 6 DEMOLISH EXISTING THERMOSTAT.

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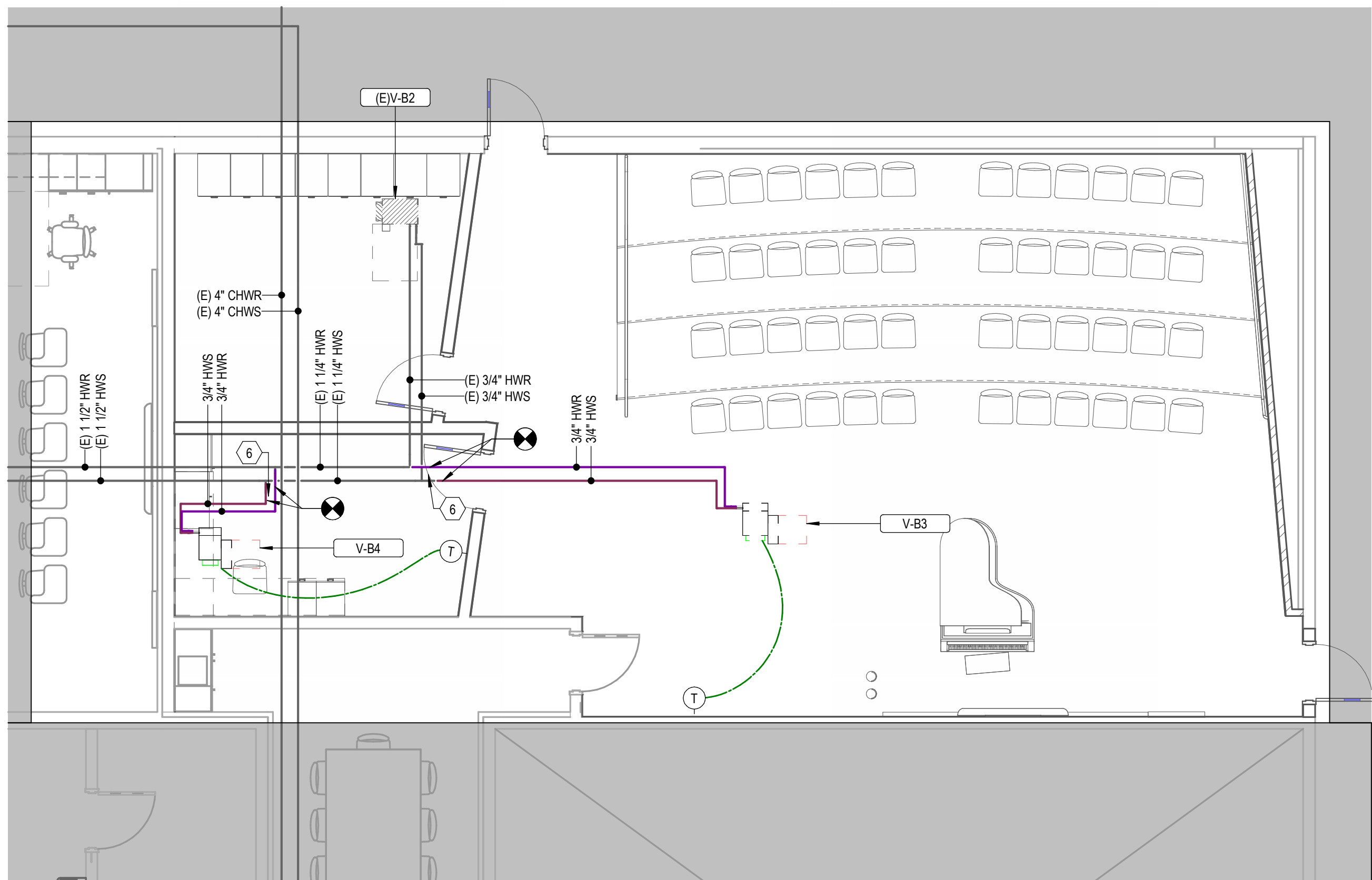
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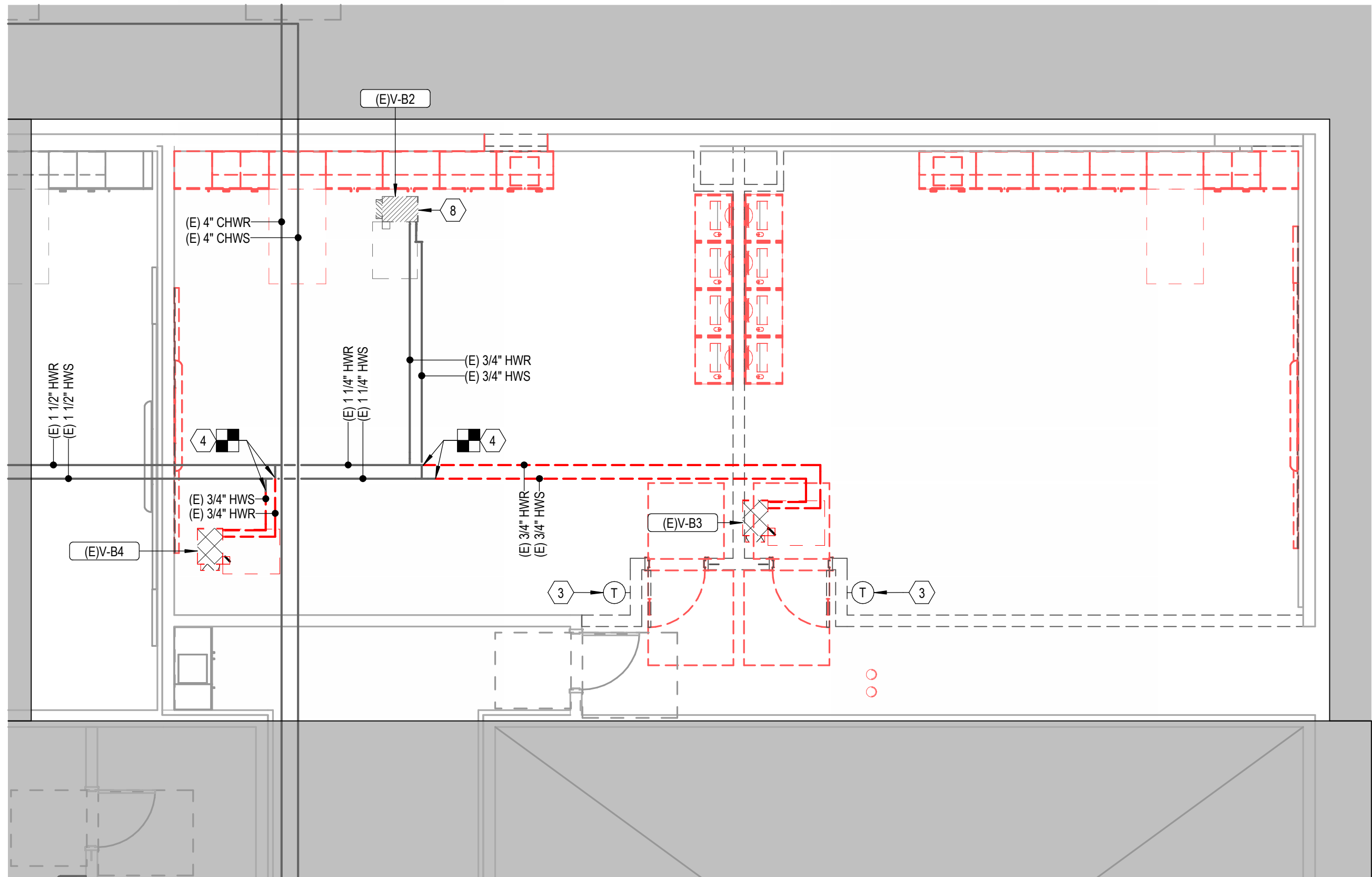
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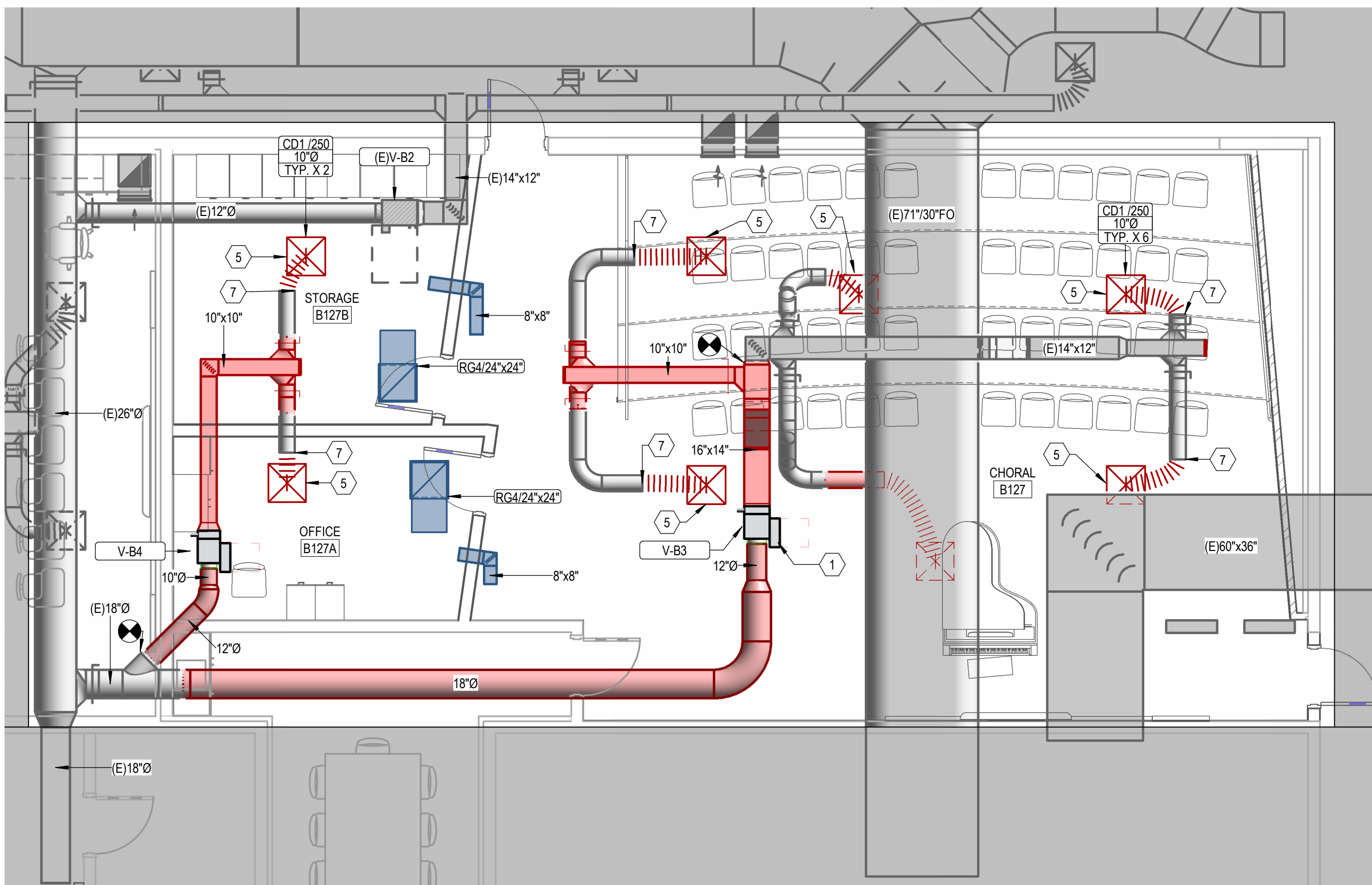
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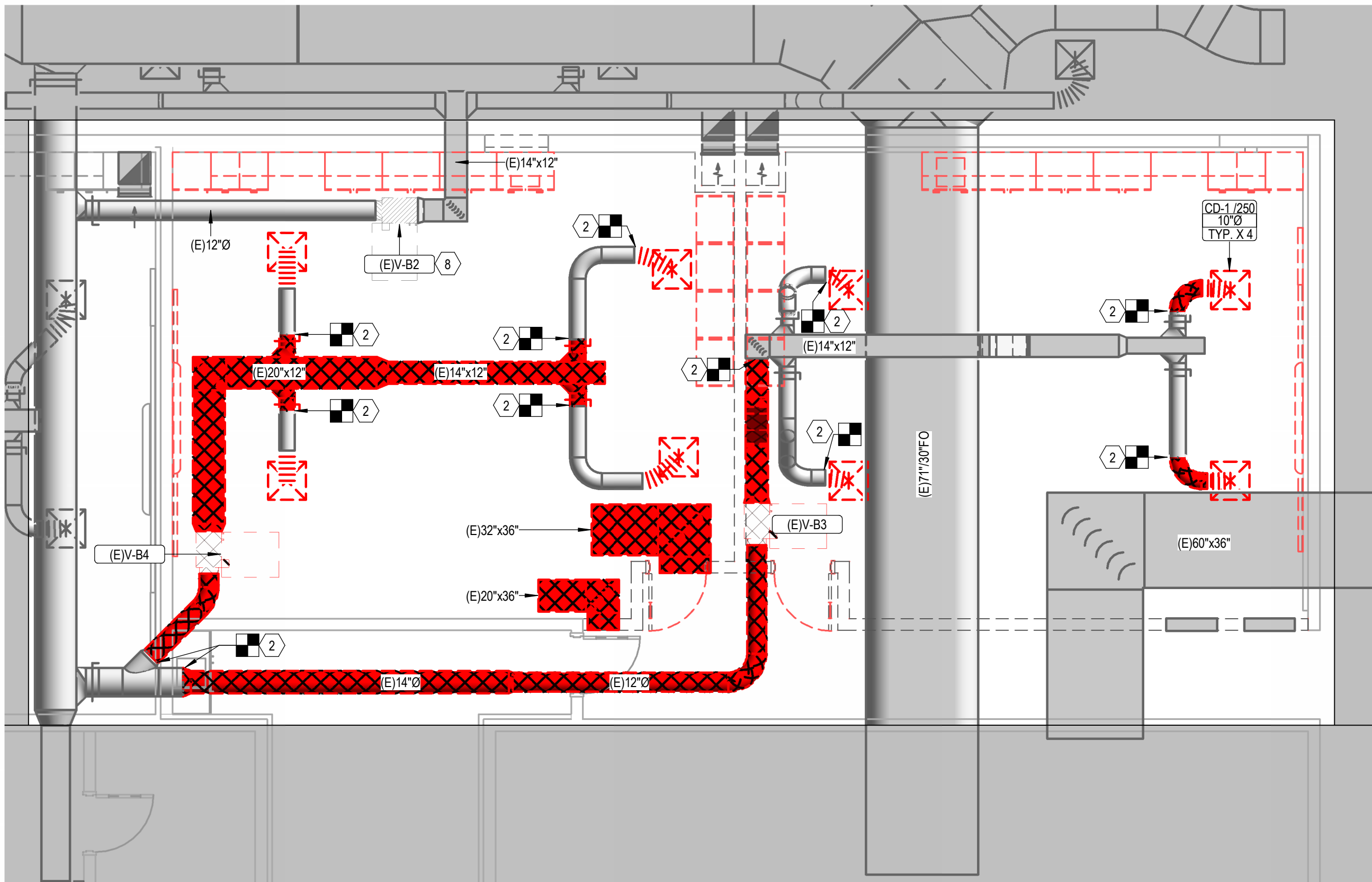
3 MAIN LEVEL MECHANICAL PIPING PLAN CHORAL
M102 3/16" = 1'-0"



4 MAIN LEVEL MECHANICAL PIPING DEMO PLAN CHORAL
M102 3/16" = 1'-0"



2 MAIN LEVEL MECHANICAL HVAC PLAN CHORAL
M102 3/16" = 1'-0"



1 MAIN LEVEL MECHANICAL DEMO PLAN CHORAL
M102 3/16" = 1'-0"

- KEYNOTES**
1. MODIFY EXISTING DUCTWORK AS REQUIRED FOR NEW CONNECTIONS TO NEW VAV BOX WITH REHEAT COIL.
 2. DEMO DUCTWORK BACK TO THIS POINT.
 3. DEMOLISH EXISTING THERMOSTAT.
 4. DEMO PIPE BACK TO THIS POINT.
 5. COORDINATE DIFFUSER PLACEMENT WITH NEW CEILING GRID.
 6. CONNECT NEW HEATING WATER PIPES TO EXISTING HEATING WATER PIPING.
 7. CONNECT NEW FLEX DUCT TO EXISTING DUCT.
 8. EXISTING VAV BOX TO REMAIN.



DATE REVISION

PROJECT NUMBER 24038

CHORAL
MECHANICAL
HVAC
PLAN

M102

INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
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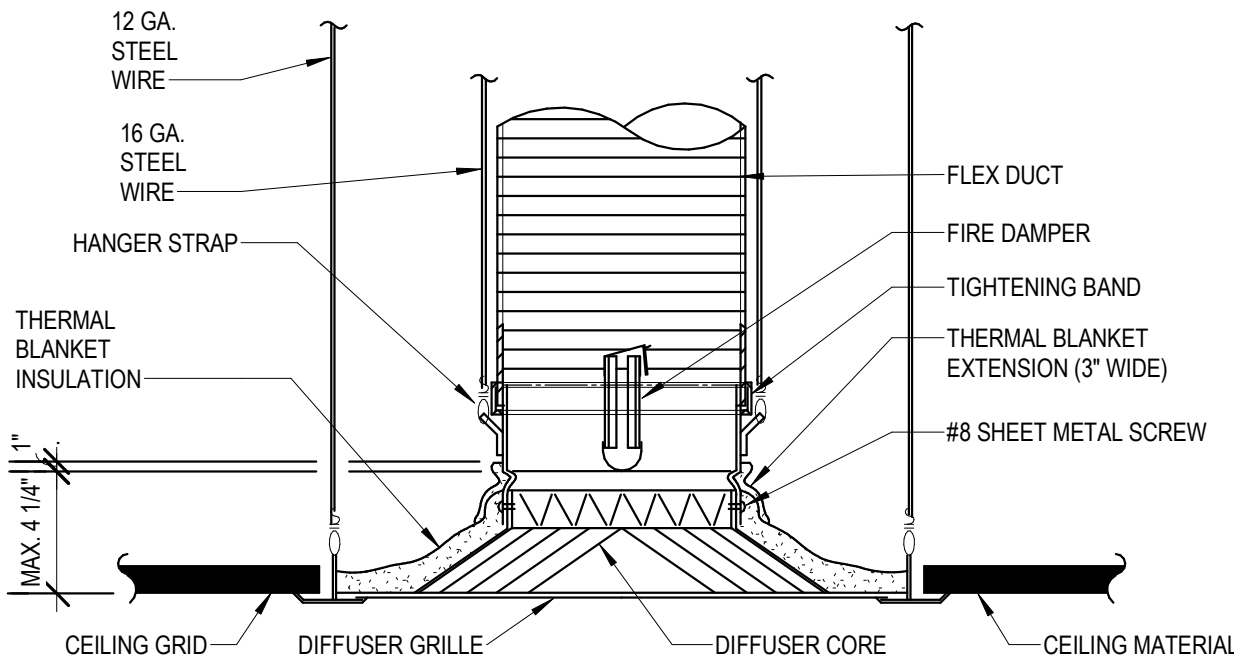
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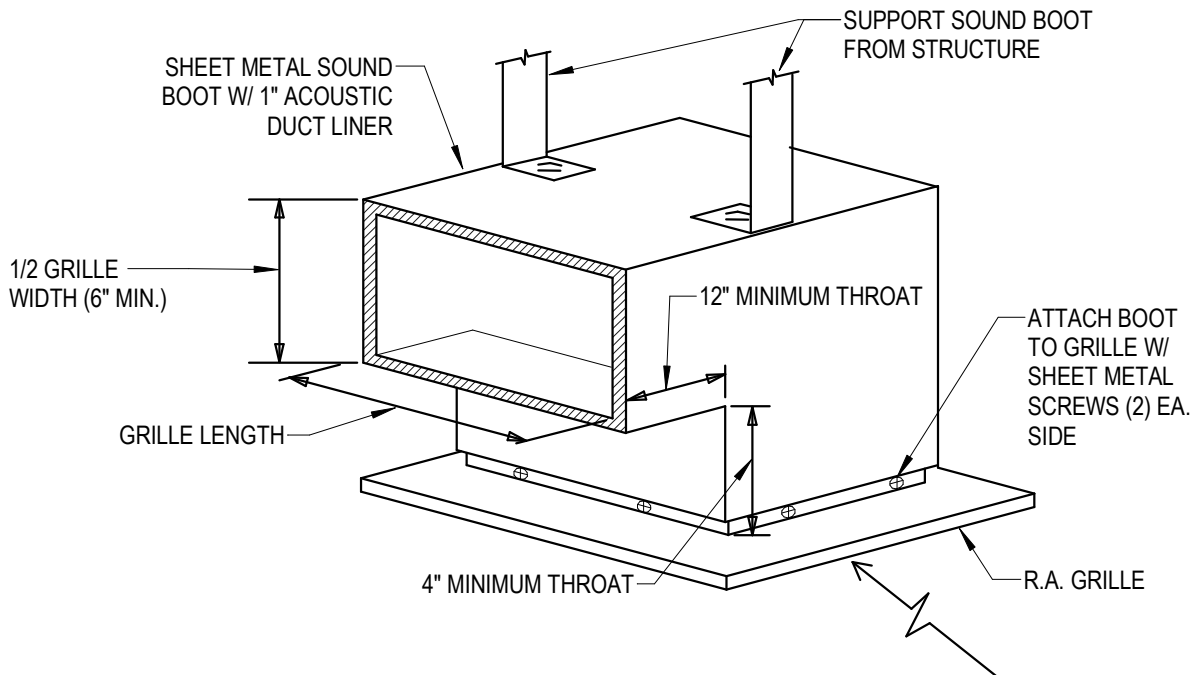
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VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE																								
NOTES:																								
1. MAXIMUM DISCHARGE NC AT BOX DIFFENTIAL PRESSURE BASED ON ARI STANDARD 880-89																								
2. MAXIMUM STATIC PRESSURE DROP PERMISSIBLE ACROSS BOX AND COIL AT MAXIMUM COOLING CFM.																								
3. PRESSURE INDEPENDENT TYPE BOX.																								
4. STATIC PRESSURE NOT TO EXCEED 0.3".																								
LOCATION							PRIMARY AIRFLOW				HEATING COIL										HEATING PLANT GLYCOL			UNIT WEIGHT
ID	NAME	NO.	MANUFACTURER	MODEL	NECK SIZE	TYPE	MAX	MIN	DESCRIPTION	CAP	AIRSIDE				WATERSIDE					PIPE DIA	TYPE	%		
											DESIGN FLOW	EAT(°b)	LAT(°b)	PD	ROWS	FPI	FLOW	EWT	LWT				VOL	
V-83	CHORAL	B127	TITUS	DESV	12"	SINGLE DUCT	1500 CFM	450 CFM	Heating Water Coil	43135 Btu/h	1000 CFM	55.0 °F	95.0 °F	0.14 in-wg	2	10	4.4 GPM	180 °F	160 °F	0.4 gal	3/4"	-	0	65 lb
V-84	OFFICE	B127A	TITUS	DESV	10"	SINGLE DUCT	500 CFM	150 CFM	Heating Water Coil	17254 Btu/h	400 CFM	55.0 °F	95.0 °F	0.05 in-wg	2	10	1.8 GPM	180 °F	160 °F	0.3 gal	3/4"	-	0	55 lb

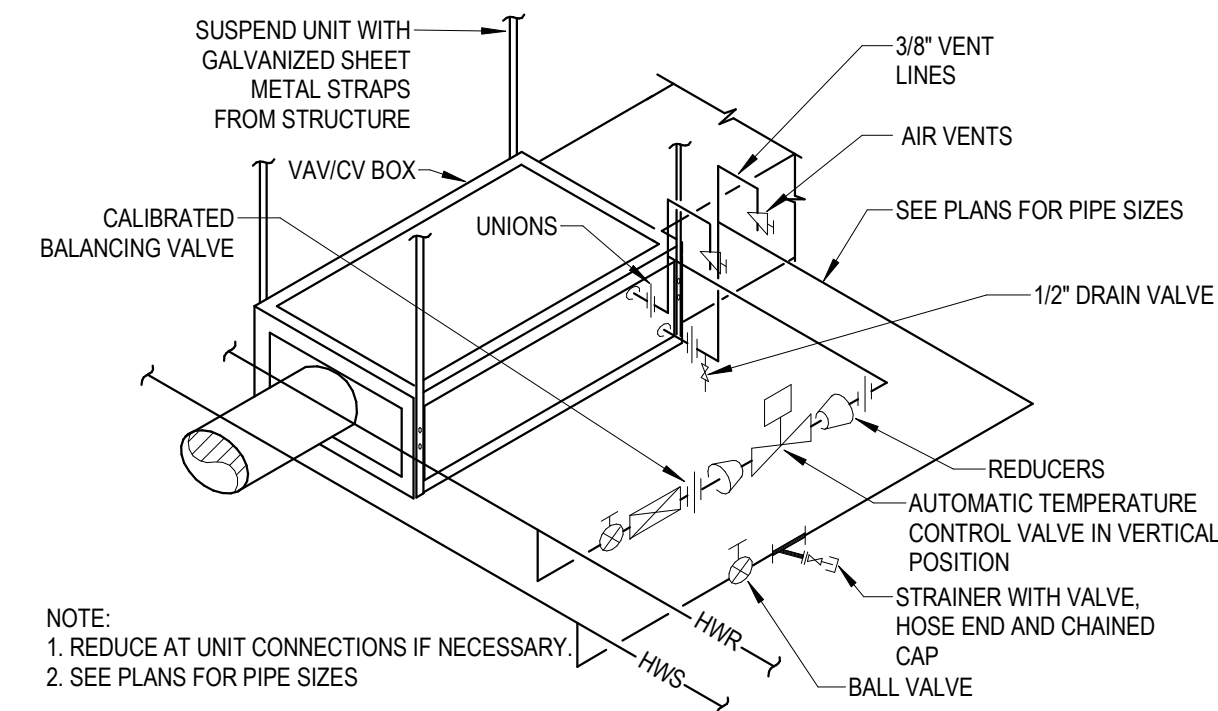
GRILLE, REGISTER, AND DIFFUSER SCHEDULE				
ID	MANUFACTURER AND MODEL	Count	DESCRIPTION	IMAGE
CD1	TITUS OMNI	20	STYLE: SQUARE PLAQUE FACE CEILING DIFFUSER CONSTRUCTION: STEEL FINISH: POWDER COAT WITH COLOR SELECTED BY ARCHITECT MOUNTING: SURFACE OR LAY-IN BASED ON CEILING TYPE. PROVIDE FRAME TYPE 1 FOR SURFACE MOUNT AND FRAME TYPE 3 FOR LAY-IN. FACE SIZE: 24"x24", 20"x20", OR 12"x12". VERIFY FACE SIZE WITH ARCHITECT AND ENGINEER. CORE: REMOVABLE MAX NC: 25 DAMPER: NONE CONNECTION: ROUND OR RECTANGULAR OF SIZE SHOWN ON DRAWINGS. PROVIDE ADAPTER FITTINGS AS REQUIRED. APPLICATION: VARIABLE AIR VOLUME SUPPLY	
			STYLE: SQUARE PERFORATED FACE CEILING GRILLE WITH ACOUSTICAL SOUND BOOT CONSTRUCTION: STEEL FINISH: SELECTED BY ARCHITECT MOUNTING: SURFACE OR LAY-IN BASED ON CEILING TYPE. PROVIDE FRAME TYPE 1 FOR SURFACE MOUNT AND FRAME TYPE 3 FOR LAY-IN. FACE SIZE: 48"x24", 24"x24", 24"x12", 20"x20", 16"x16", OR 12"x12" AS SHOWN ON PLANS. VERIFY FACE SIZE WITH ARCHITECT AND ENGINEER. MAX NC: 25 DAMPER: NONE CONNECTION: RECTANGULAR SOUND BOOT PER DETAIL. SEE DETAIL SHEETS. APPLICATION: RETURN OR TRANSFER MINIMUM FREE AREA: 50%	
RG4	TITUS PAR	4		



1 FLEX DUCT SUPPLY DETAIL DETAIL
NOT TO SCALE

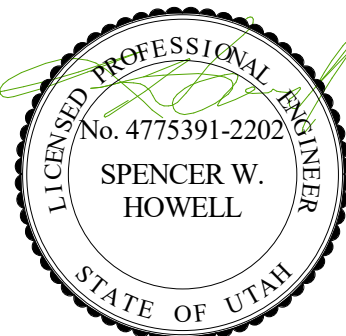


2 RA GRILLE WITH SOUND BOOT DETAIL
NOT TO SCALE



3 VAV/CV TERMINAL UNIT WITH 2-WAY CONTROL VALVE DETAIL
NOT TO SCALE

INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - MARCH 21, 2025



DATE REVISION

PROJECT NUMBER 24038

MECHANICAL
DETAILS &
SCHEDULES

M601

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A B C D E

0' 1' 2'

1

2

3

4

5

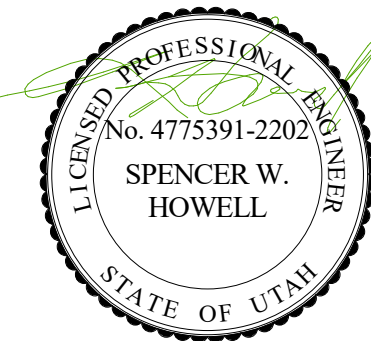
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1 MAIN LEVEL PLUMBING PLAN OVERALL
P100 3/64" = 1'-0"



KEYNOTES

INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - MARCH 21, 2025



DATE REVISION

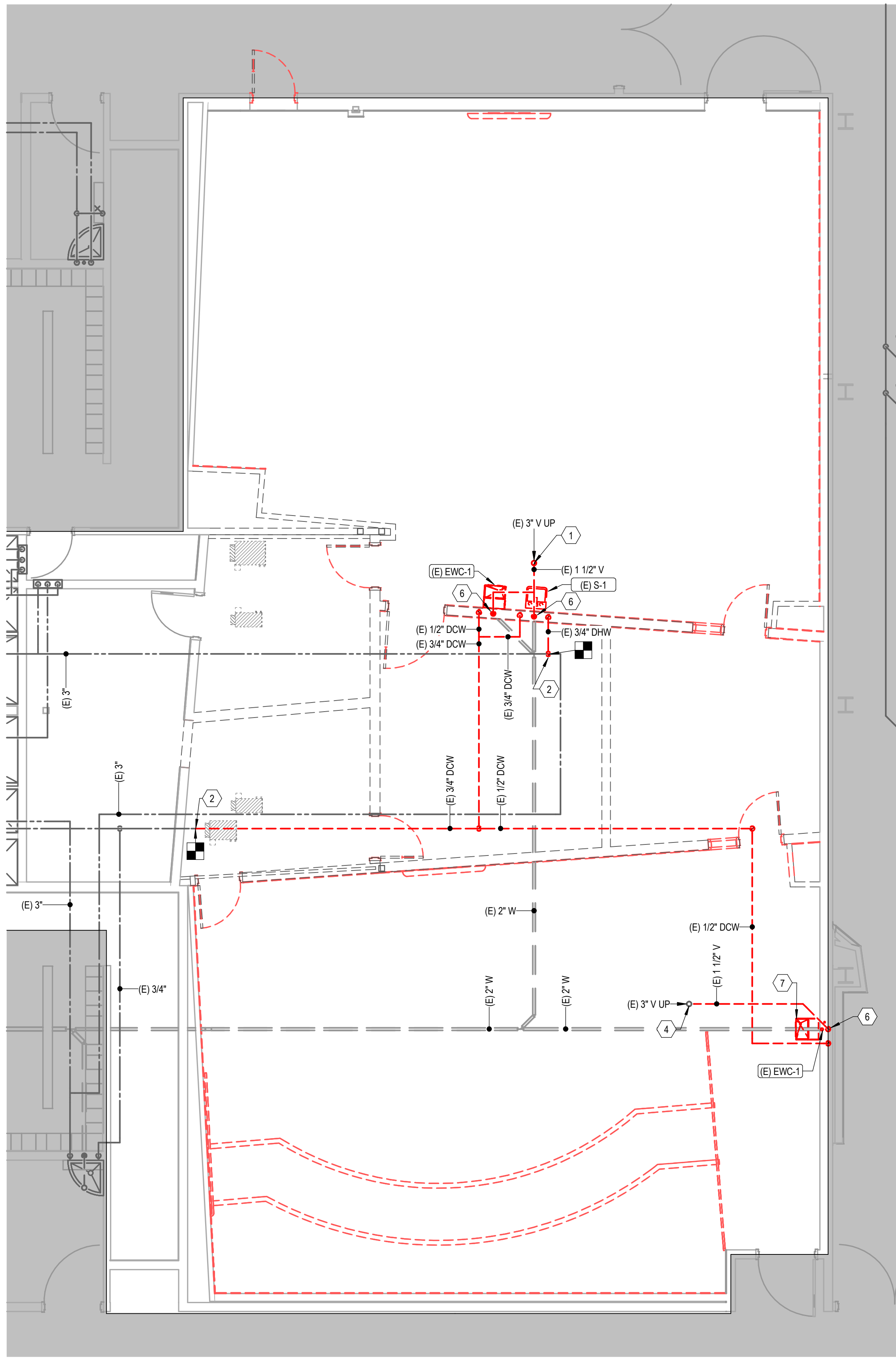
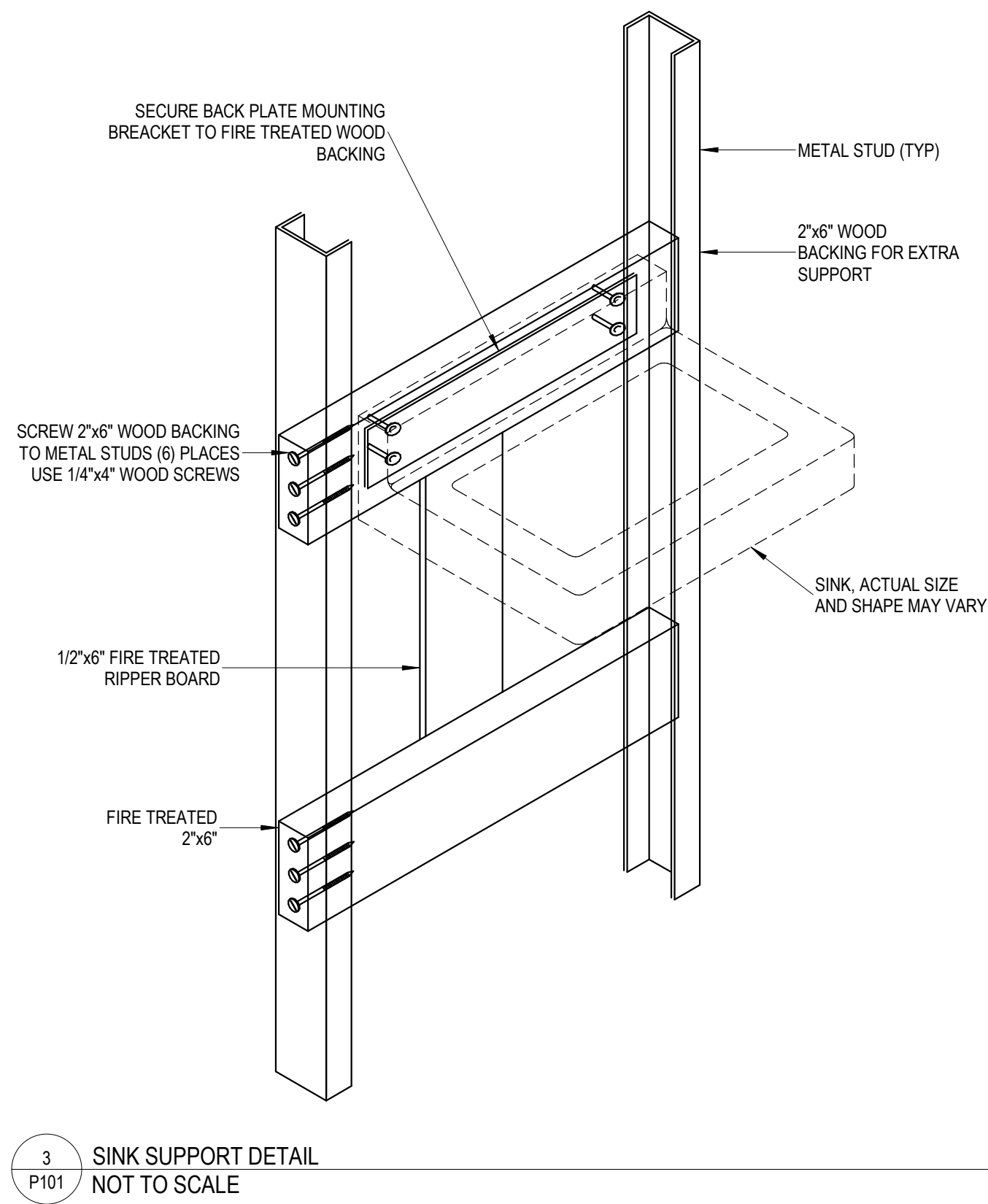
PROJECT NUMBER 24038

OVERALL
MAIN
LEVEL
PLUMBING
PLAN

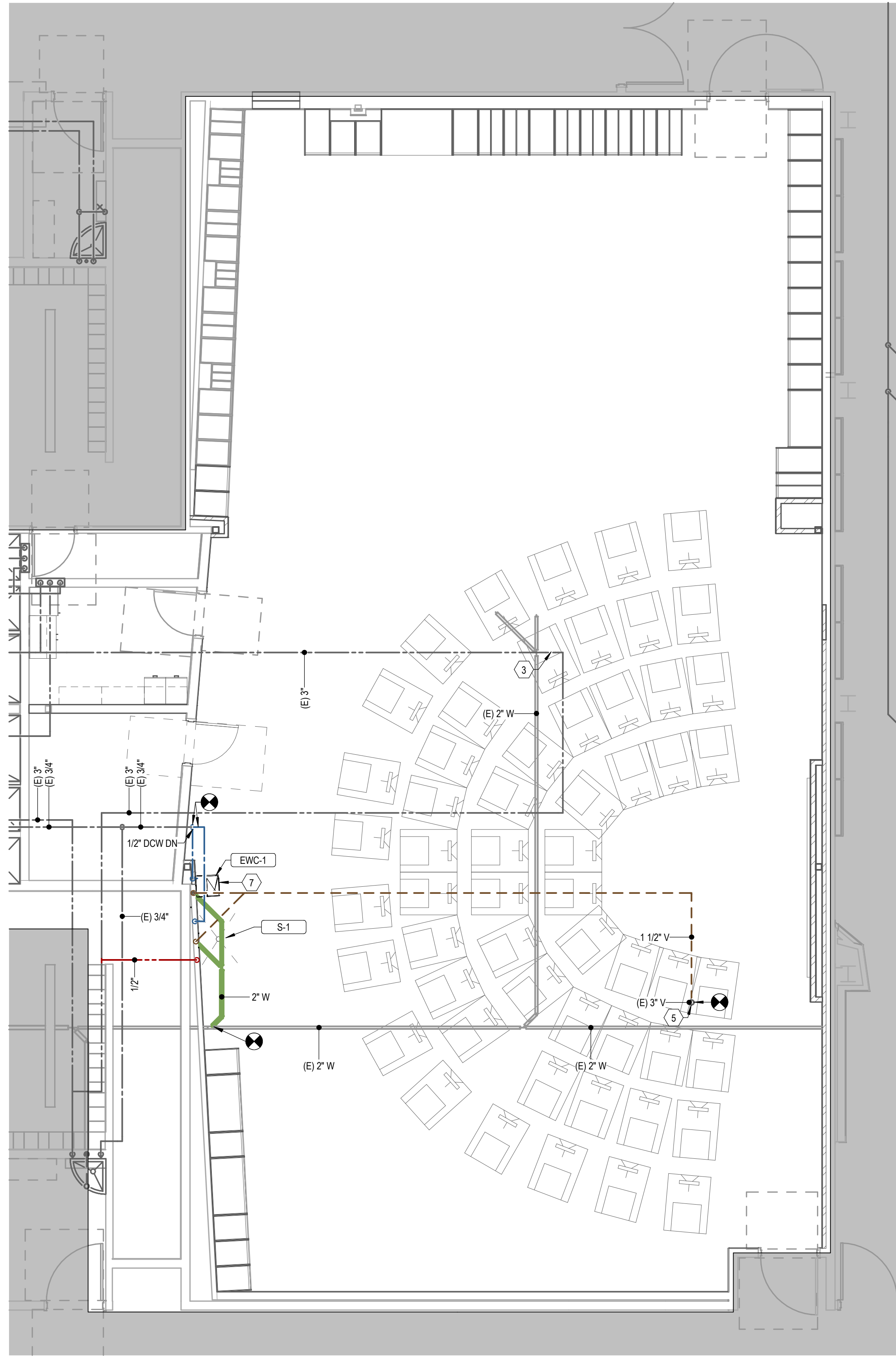
P100



FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM



2 MAIN LEVEL PLUMBING DEMO PLAN BAND
3/16" = 1'-0"

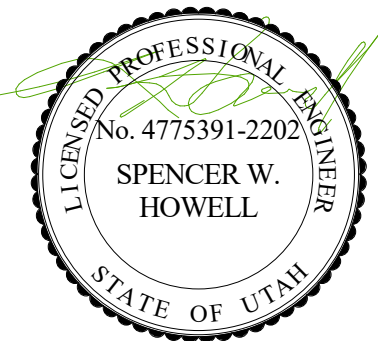


1 MAIN LEVEL PLUMBING PLAN BAND
3/16" = 1'-0"

PLUMBING FIXTURE SCHEDULE							
ID	FIXTURE	CW (IN)	BW (IN)	W (IN)	V (IN)	NOTES	SPECIFICATION
S-1	SINK	1/2	1/2	3 1/2	1 1/2	STANDING BOWL, SINGLE COMPARTMENT	JUMBO (1) COMPARTMENT UTILITY SINK, GRIFFIN MEDINA JS-483, BOWL DIMENSIONS OF 48"X30"X30" (LxWxD); OVERALL DIMENSIONS OF 51"X33.5"X48" (LxWxH); ROLLED RIM, 12" TALL BACKSPASH, AND STAINLESS STEEL LEGS WITH ADJUSTABLE FEET; (2) FAUCET HOLES ON 8" CENTERS, MATERIAL, 14 GA. STAINLESS STEEL. PROVIDE MATCHED FAUCET, BASKET DRAIN, INSTALL KIT, LOOSE KEY ANGLE STOPS, CHROME PLATED COPPER SUPPLIES AND 17 GA. CAST BRASS, CHROME PLATED 1" TRAP.
EWC-1	ELECTRIC WATER COOLER	1/2		1 1/2	1 1/2	REUSE EXISTING EWC-1	

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

KEYNOTES	
1	DEMO VENT TO ROOF AND PATCH.
2	DEMO PIPE BACK TO THIS POINT.
3	CAP OPEN END OF PIPE.
4	DEMO VENT PIPE TO THIS POINT, LEAVING THE RISE THROUGH THE ROOF.
5	CONNECT NEW VENT TO EXISTING RISE TO ROOF.
6	DEMO WASTE PIPE TO FLOOR LEVEL AND CAP.
7	REUSE EXISTING ELECTRIC DRINKING FOUNTAIN.



DATE REVISION

PROJECT NUMBER 24038

BAND
MAIN
LEVEL
PLUMBING
PLAN

P101

INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - MARCH 21, 2025



FFKR ARCHITECTS
730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 - FFKR.COM

EXISTING SYSTEMS INFORMATION AND VENDOR CONTRACTS
(INCLUDE WITHIN BID)

BIDDING DIVISION 26 CONTRACTOR RESPONSIBLE FOR EXPANDING EXISTING SYSTEMS FOR THIS REMODEL PROJECT. PROVIDE A TURNKEY SOLUTION AND BUILD-OUT FOR ALL IMPACTED SYSTEMS I.E. INTERCOM, FIRE ALARM, ACCESS CONTROL, AND INTRUSION.

INTERCOM SYSTEM - AUDIO ENHANCEMENT SYSTEM

COMPANY	AUDIO ENHANCEMENT
CONTACT	Devon Means
CELL PHONE NO.	AUDIO ENHANCEMENT
OFFICE PHONE NO.	AUDIO ENHANCEMENT
EMAIL	AUDIO ENHANCEMENT

EXTEND AND REWORK SPEAKERS AND CIRCUITS AS NEEDED. PROVIDE NEW CEILING SPEAKERS, CALL SWITCHES, SWITCHBANK, EQUIPMENT, ETC. AND CIRCUITS TO EXISTING RACK AS REQUIRED. MATCH SYSTEM WIRING. UPDATE PROGRAMMING.

FIRE ALARM SYSTEM - EXISTING GAMEWELL FCI E3 SYSTEM

COMPANY	NELSON FIRE
CONTACT	Ashley Nelson & Toby Timothy
CELL PHONE NO.	801-652-7991
OFFICE PHONE NO.	801-468-8300
EMAIL	ashley@nelsonfire.com toby@nelsonfire.com

EXTEND AND REWORK SPEAKERS AND CIRCUITS AS NEEDED. PROVIDE NEW CEILING SPEAKERS, CALL SWITCHES, SWITCHBANK, EQUIPMENT, ETC. AND CIRCUITS TO EXISTING RACK AS REQUIRED. MATCH SYSTEM WIRING. UPDATE PROGRAMMING.

GENERAL NOTE - CLASSROOM LIGHTING CONTROLS

THE EXISTING CLASSROOM LIGHTING CONTROL SYSTEM IS AN ACUTY NIGHT8 SYSTEM. DIVISION 26 SHALL REMOVE, RELOCATE, AND REINSTALL EXISTING NIGHT CONTROL DEVICES AS INDICATED ON THE DRAWINGS. PROVIDE NEW DEVICES, RELAYS, SENSORS, AND RELATED COMPONENTS AS REQUIRED TO DELIVER FULLY FUNCTIONAL AND CODE COMPLIANT LIGHTING CONTROL SYSTEM. THE SYSTEM SHALL BE REPROGRAMMED TO REFLECT THE NEW CLASSROOM LAYOUT AND ZONING REQUIREMENTS. DIVISION 26 SHALL COORDINATE WITH JRC TO DEVELOP AND IMPLEMENT THE UPDATED NIGHT CONTROL SOLUTION, ENSURING FULL INTEGRATION WITH EXISTING INFRASTRUCTURE. FOR LIGHTING CONTROL SYSTEM SUPPORT AND PROGRAMMING COORDINATION, CONTACT:

MARK BROWN
CONTROLS SPECIALIST - JRC
MARK.BROWN@JRCLIGHT.COM
(801) 972-3970 X389

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	1000	CIRCULAR MILLS
AC	ALTERNATING CURRENT	MH	MANHOLE
A.F.F.	ABOVE FINISH FLOOR	MIC	MICROPHONE
AM	AMPS INTERRUPTING CAPACITY	MIN	MINIMUM
AMP	AMPS METER	MTG	MOUNTING
AMP	AMPERE	MTR	MOTOR
ANN	ANNUNCIATOR	N/A	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
BC	BARE COPPER	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BFG	BELOW FINISH GRADE	N.I.C.	NOT IN CONTRACT
C	CONDUIT	NO	NORMALLY OPENED
CAB	CABINET	NTS	NOT TO SCALE
CATB	COMMUNITY ANTENNA TELEVISION	OS & Y	OUTSIDE SCREW & YOKE
CATV	CABLE TELEVISION	PB	PUSHBUTTON
CRT	CIRCUIT	PF	POWER FACTOR
CLD	CEILING	PF	PHASE FAILURE RELAY
CNTR	CONTRACTOR	PHL	PANEL
C.O.	CONDUIT ONLY	PT	POTENTIAL TRANSFORMER
CRT	COMPUTER TERMINAL	PVC	POLYVINYL CHLORIDE CONDUIT
CT	CURRENT TRANSFORMER	(R)	RELOCATE
CU	COPPER	RECEP	RECEPTACLE
CW	COMPLETE WITH	REQ	REQUIREMENT
DB	DECIBEL	RLA	RATED LOAD AMPS
DC	DIRECT CURRENT	RMP	ROCKY MOUNTAIN POWER
DWG	DRAWING	RMS	ROOT MEAN SQUARE
EXISTING	EXISTING TO REMAIN, REMOVED AND/OR REINSTALLED, UNLESS OTHERWISE NOTED	SE	SERVICE ENTRANCE
[E]	EMPTY CONDUIT	SPEC	SPECIFICATIONS
EC	EMERGENCY CIRCUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	TTB	TELEPHONE TERMINAL BOARD
FT	FOOT	TTC	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UPS	UNINTERRUPTED POWER SUPPLY
HZ	HERTZ	V	VOLT (K=KILOVOLT)
IFC	INTERNATIONAL FIRE CODE	VAR	VOLT-AMPS/REACTIVE
IG	ISOLATED GROUND	VM	VOLT METER
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
IN	INCH	W/	WITH
J-BOX	JUNCTION BOX	WH	WATTHOUR METER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF
KVAR	KILOVARS	XFMR	TRANSFORMER
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTG	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	Ø	PHASE

GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 285100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT. WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATED OF SURFACE PENETRATED.
- CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING			
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT	
<70	MIN. #12 AWG	MIN. #12 AWG	
70 - 115	MIN. #10 AWG	MIN. #12 AWG	
115 - 170	MIN. #8 AWG	MIN. #10 AWG	
170 - 270	MIN. #6 AWG	MIN. #8 AWG	
271 - 380	NOTE B	MIN. #6 AWG	
>380	NOTE B	NOTE B	

A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.

B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.

C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26 (16).
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE ABBREVIATION SCHEDULE				PROJECT MANAGER: DRAYTON BAILEY	
A.F.F. WALL@CLG CCBA	ABOVE FINISH FLOOR WALL MOUNT AT CORNER OF WALL AND CEILING CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	SCBA CFBA SFBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT CUSTOM FINISH AS SELECTED BY THE ARCHITECT STANDARD FINISH AS SELECTED BY THE ARCHITECT		
LIGHT FIXTURE GENERAL NOTES					
1.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.				
2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.				
3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.				
4.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.				
5.	REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.				
6.	REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS.				
7.	WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.				
8.	PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEERS OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.				
9.	REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).				
10.	VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM I.E. ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.				

TYPE	DESCRIPTION	MFR.	CATALOG #	VOLTS	TOTAL WATTS	LAMP TYPE	DIMMING TYPE	DELIVERED LUMENS	COLOR TEMP	CRI	ALTERNATE MFR
A3E	EXISTING 2X4 LED FIXTURE. REMOVE LUMINAIRES FOR DEMOLITION OF EXISTING CEILING. CLEAN, REWORK, BOX, AND RETURN TO OWNER.			277 V	45 VA	LED		5,500	4000 K		
A4E	EXISTING 2X4 LED FIXTURE. REMOVE LUMINAIRES FOR DEMOLITION OF EXISTING CEILING. CLEAN, REWORK, BOX, AND RETURN TO OWNER.			277 V	45 VA	LED		5,500	4000 K		
A4H	2X4 LED FLAT PANEL LUMINAIRE. HIGH TRANSMISSION EXTRUDED LOW GLARE (PMA TROSTED) 4000K CULS. ULTRA THIN 1/2" H. SCRATCH AND IMPACT RESISTANT. RECESSED INTO ACCESSIBLE ARCHITECTURAL CEILING. EASY TO CLEAN. 100,000 HOUR (L70) D.C. LISTED. 5 YR. WARRANTY. 0-10 DIMMING. FIELD-SELECTABLE LUMEN OUTPUT (HIGH, 4000K).	ILP	VPAN24-33L44L/55L-U-CCTS	277 V	49 VA	LED		6,466	4000 K	80+	METALLUX, LITHONIA, DAY BRITE, LSI
A5E	EXISTING 2X4 LED FIXTURE. HIGHEST LUMEN OUTPUT FIXTURE. REMOVE LUMINAIRES FOR DEMOLITION OF EXISTING CEILING. CLEAN, REWORK, AND REINSTALL IN NEW CEILING AS INDICATED PLANS.			277 V	45 VA	LED		5,500	4000 K		
B2E	EXISTING 2X4 LED FIXTURE. REMOVE LUMINAIRES FOR DEMOLITION OF EXISTING CEILING. CLEAN, REWORK, BOX, AND RETURN TO OWNER.			277 V	45 VA	LED		4,000	4000 K		
B3E	EXISTING 2X4 LED FIXTURE. REMOVE LUMINAIRES FOR DEMOLITION OF EXISTING CEILING. CLEAN, REWORK, BOX, AND RETURN TO OWNER.			277 V	45 VA	LED		4,000	4000 K		
B4E	EXISTING 2X4 LED FIXTURE. REMOVE LUMINAIRES FOR DEMOLITION OF EXISTING CEILING. CLEAN, REWORK, BOX, AND RETURN TO OWNER.			277 V	45 VA	LED		4,000	4000 K		
X1E	EXISTING EXIT SIGN. REMOVE EXIT SIGN FOR DEMOLITION OF EXISTING CEILING. CLEAN, REWORK, AND REINSTALL IN NEW CEILING AS INDICATED PLANS.			277 V	2 VA	LED					

SHEET INDEX

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E100	EXISTING OVERALL ELECTRICAL FLOOR PLAN
ED101	MUSIC ROOMS - ELECTRICAL DEMO PLANS
ED102	CLASSROOMS - ELECTRICAL DEMO PLANS
E101	BAND - LIGHTING & ELECTRICAL PLANS
E102	CHORAL - LIGHTING & ELECTRICAL PLANS
E701	ELECTRICAL DIAGRAMS
T001	AUDIOVISUAL SYMBOLS AND NOTES
T002	AUDIOVISUAL SCHEDULES
T101	BAND - AUDIOVISUAL PLANS
T102	CHORAL - AUDIOVISUAL PLANS
T701	AUDIOVISUAL DIAGRAM

SYMBOL LEGEND









































NOTES:

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING, AND WATTAGE.
- HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.
- REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
- SUBSCRIPT INDICATES QUANTITY TO BE CONTROLLED.
- NEMA TYPE 'NO' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 1/2" 40 V.
- HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.
- DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT.
- DEVICES NOTED WITH AN 'X' INDICATE TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
- SUBSCRIPT INDICATES NEMA CONFIGURATION.
- SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.

- COORDINATE WITH DOOR HARDWARE SUPPLIER.
- FOR WATER COOLER LOCATION, SEE DIAGRAM 280202. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.
- ARROWS SHOWN ON DEVICE INDICATE AMINO DIRECTION.
- CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.
- MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR. THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.
- INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
- SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION.
- MOUNTING HEIGHT 6" TO BOTTOM OF DISPLAY.

*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

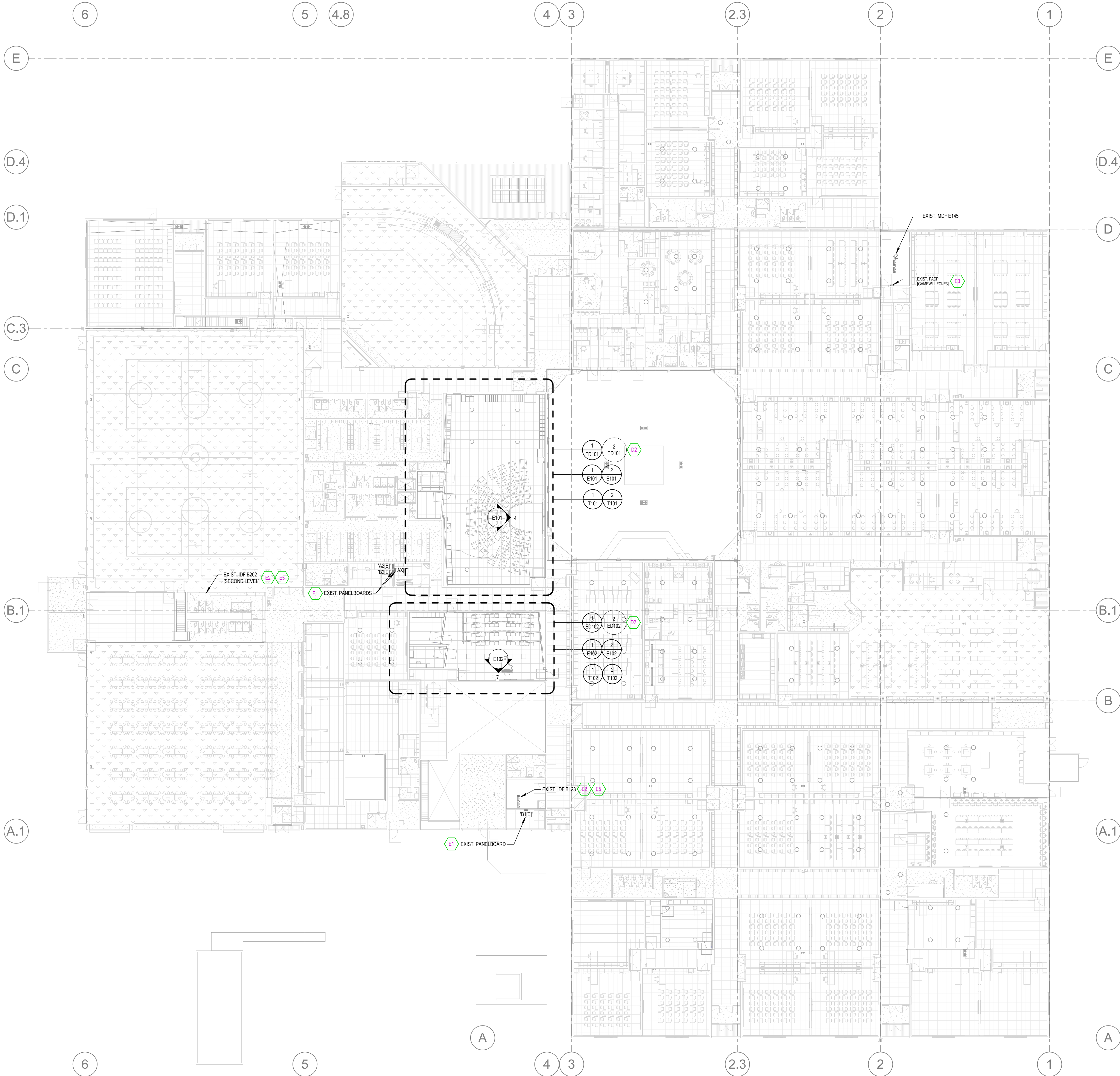
STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

GENERAL							
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, HOME RUN TO PANEL				EQUIPMENT PANEL, SEE DRAWINGS	+72"	6.
	2 CIRCUIT, HOME RUN TO PANEL				CABLE TRAY	AS NOTED	
	3 CIRCUIT, HOME RUN TO PANEL				GROUND BUS BAR	+18"	6.
	CONDUIT RUN CONCEALED IN WALL OR CEILING				LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND				EQUIPMENT NUMBER		
	CONDUIT UP				ARCHITECTURAL ROOM NUMBER		
	CONDUIT DOWN				DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE		
	CONDUIT STUB LOCATION	CAP CONDUIT			DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE / LEGEND		
	CONDUIT / CIRCUIT CONTINUATION						
MULTIPLE SYSTEM SYMBOLS							
	RECEPTACLE SWITCH PACK	ABOVE CEILING			JUNCTION BOX (7" IN FLOOR)	AS NOTED	
	DUPLEX RECEPTACLE	UPPER OUTLET SWITCH CONTROLLED	+18" OR AS NOTED	2.9.		MOTOR OUTLET	TO SUIT EQUIP.
	SIMPLEX RECEPTACLE		+18" OR AS NOTED	2.9.		PUSHBUTTON	+46"
	DUPLEX RECEPTACLE		+18" OR AS NOTED	2.9. 11.		NON-FUSED DISCONNECT SWITCH	+60"
	DUPLEX RECEPTACLE		9.		FUSED DISCONNECT SWITCH	+60"	
	5mA GFCI CIRCUIT BREAKER PROTECTED RECEPTACLE		13.		BREAKER DISCONNECT SWITCH	+60"	
	WEATHERPROOF RECEPTACLE		+24" OR AS NOTED	2.9.		SINGLE POLE SWITCH	+46"
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE		+18" OR AS NOTED	2.9.		MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+46"
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)		+18" OR AS NOTED	2.9. 11.		MAGNETIC STARTER	+60"
	FOURPLEX RECEPTACLE		+18" OR AS NOTED	2.9. 11.		MAGNETIC STARTER / DISCONNECT COMBINATION	+60"
	GROUND FAULT INTERRUPTER FOURPLEX RECEPT		+18" OR AS NOTED	2.9.		VARIABLE FREQUENCY DRIVE	+66"

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A B C D E



EXISTING OVERALL ELECTRICAL FLOOR PLAN
SCALE = 3/16" = 1'-0"

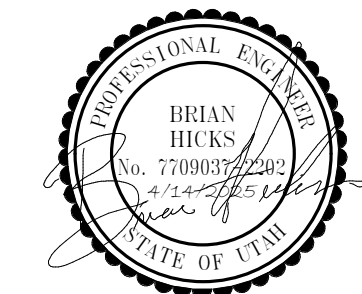
GENERAL ELECTRICAL DEMOLITION NOTES

- DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. FIXTURE LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CONDUITS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED WITHOUT EXCEPTION.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM POWER, LIGHTING, FIRE ALARM AND SECURITY WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC CONTINUITY TO AND PROTECT BRANCH CIRCUITS AND/OR FEEDERS PASSING THROUGH WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELED AREA AND OUTSIDE OF A REMODELED AREA. CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELED AREA.
- DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARDS/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
- COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING AND/OR WALLS FOR ALL LIGHTING AND ELECTRICAL APPARATUS IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS.
- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26 (16).
- THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
- CONTRACTOR TO VERIFY THAT ALL EXISTING EQUIPMENT THAT IS TO REMAIN, BE REMOVED AND RE-INSTALLED ARE IN WORKING CONDITIONS. CONTRACTOR IS TO PROVIDE OWNER WRITTEN DOCUMENTATION OF ANY ITEMS NOT IN WORKING CONDITION PRIOR TO COMMENCING WORK IN AN AREA.
- CONTRACTOR IS TO PROTECT IN PLACE ALL MECHANICAL, PLUMBING, ELECTRICAL ABOVE CEILINGS. THIS MAY INCLUDE BUT NOT LIMITED TO NETWORK CABLING, COAX CABLING, CONDUITS, PIPING, DUCTWORK, ETC. PROVIDE ADDITIONAL CABLING SUPPORTS AS REQUIRED FOR ANY UNSUPPORTED CABLING, RACEWAY, ETC.
- WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
- ANY FIRE ALARM DEVICES REMOVED DURING DEMOLITION ARE REQUIRED TO BE RELOCATED IN THE LOCATION NECESSARY TO PROVIDE COVERAGE PER NFPA 72, AND CIRCUITS SAME BEFORE FIRE ALARM DEVICES ARE NOT ALLOWED TO BE LOCATED CENTER OF ANY ROOM OR SPACE. IF MORE FIRE ALARM DEVICES ARE REQUIRED CONTRACTOR SHALL PROVIDE THEM COMPLETELY. REFER TO SHEET E-401 FOR MORE INFORMATION.
- SEE NEW ELECTRICAL SHEETS FOR NEW FIRE ALARM INFORMATION. REMOVE EXISTING FIRE ALARM DEVICES (S) AS NECESSARY FOR REMOVAL OF CEILING SYSTEM. RE-INSTALL ONCE NEW CEILING IS INSTALLED.
- REMOVE VOICE/DATA CABLING BACK TO DATA ROOM UNLESS NOTED OTHERWISE.
- PROVIDE BLANK COVERPLATE ON ALL EXISTING BOXES LOCATED IN MASONRY THAT ARE NOT BEING RE-USED. PROVIDE BLANK COVERPLATE ON ALL UNUSED BOXES.
- COORDINATE THE DEMOLITION, PATCH, AND REPAIR OF CEILING FOR ALL LIGHTING AND ELECTRICAL APPARATUS IN THIS AREA. DISCONNECT AND RE-CONNECT AS REQUIRED TO MAINTAIN ALL SYSTEMS.
- KEEP ANY CLASSROOM SYSTEMS TOGETHER. LOUDSPEAKERS, AMPLIFIERS, IR SENSORS, PROJECTORS, AND CABLING ARE TO BE LABELED WITH THE CURRENT CLASSROOM NUMBER THEY ARE REMOVED FROM. BOX EACH LOCATION IN SEPARATE BOXES AND LABEL WITH CLASSROOM NUMBER PRIOR TO RETURNING TO OWNER.
- DEVICES NOTED WITH SUBSCRIPT [ET] DENOTES THE DEVICES ARE EXISTING AND TO REMAIN. REMOVE AND RE-INSTALL DEVICES AS NOTED OR AS REQUIRED FOR CONSTRUCTION.
- CIRCUIT #S, IF SHOWN, ARE FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS PRIOR TO WORK.
- ALL AUDIOVISUAL EQUIPMENT IS TO BE REMOVED AND RETURNED TO OWNER.

SHEET KEYNOTES

- EXISTING AREAS TO BE DEMOLISHED AND REMODELED PER THE ARCHITECTURAL DRAWINGS. REMOVE ALL EXISTING LIGHT FIXTURES AND ELECTRICAL DEVICES AND APPARATUS REQUIRED FOR DEMOLITION. REMOVE ALL CONDUIT, BOXES AND WIRE THAT ARE NOT BEING REUSED BACK TO SOURCE. KEEP EXISTING ELECTRICAL DEVICES, WIRE, CIRCUIT INTEGRITY, CONDUIT, ETC THAT ARE TO BE REUSED. RELOCATE OR EXTEND BOX TO NEW SURFACE AND RE-INSTALL EXISTING AND/OR NEW DEVICES AS NOTED. SEE ENLARGED PLANS FOR ELECTRICAL DEMO AND NEW ELECTRICAL LAYOUT.
- EXISTING POWER AND LIGHTING PANELBOARDS. REMOVE ANY CIRCUITS NOT UTILIZED FOR NEW CONSTRUCTION BACK TO PANELBOARD. UTILIZE EXISTING CIRCUIT BREAKERS THAT WERE FREED DURING CONSTRUCTION WHEN NECESSARY/AVAILABLE. PROVIDE NEW UPDATED TYPED INDEX CARD IDENTIFYING NEW AND REMAINING CIRCUITS.
- BIDDING DIVISION 26.27 AND 28 CONTRACTOR(S) RESPONSIBLE FOR EXPANDING EXISTING SYSTEMS FOR THE REMODELED AREAS. PROVIDE A TURN-KEY SOLUTION AND BUILD-OUT FOR ALL IMPACTED SYSTEMS I.E. NETWORK, FIRE ALARM, AND INTERCOM.
- EXISTING HONEYWELL FCI E3 MAIN FIRE ALARM PANEL. EXTEND EXISTING FIRE ALARM INITIATION/NOTIFICATION CIRCUITS TO ACCOMMODATE NEW FIRE ALARM DEVICES SHOWN AND AS REQUIRED. MATCH SYSTEM WIRING. SEE E10X SERIES SHEET FOR NEW REQUIREMENTS.
- EXISTING NETWORK RACK. REMOVE ANY DEMOLISHED NETWORK CIRCUITS BACK TO SOURCE. WHERE SHOWN ON PLANS, ROUTE NEW DATA CABLES TO THE NEAREST TELECOM ROOM. PROVIDE NEW PATCH PANEL AND TERMINATE NEW CABLES AS REQUIRED. SEE E10X SERIES SHEET FOR NEW REQUIREMENTS.

INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - APRIL 14, 2025



DATE REVISION

PROJECT NUMBER 250273

EXISTING OVERALL ELECTRICAL FLOOR PLAN

E100

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D1 NOT ANTICIPATED CONSTRUCTION IN AREA, UNLESS OTHERWISE NOTED, PROTECT EXISTING ELECTRICAL APPARATUS AND ELECTRIFIED EQUIPMENT FOR EXISTING FACILITIES AS REQUIRED. RELOCATE, REPAIR OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.

D2 SOME EXISTING LED LIGHT FIXTURES TO BE RE-USED IN REMODELED SPACE. CAREFULLY REMOVE EXISTING LIGHT FIXTURES AND LED LIGHTING CONTROLS TO BE RE-USED AND REWORKED AS REQUIRED FOR NEW ROOM LAYOUTS. REMOVE THE EXISTING LIGHTING CONTROLS AS REQUIRED. MAINTAIN LIGHTING CIRCUIT INTEGRITY FOR EXISTING AND NEW LIGHTING CONTROLS THROUGHOUT THE REMODELED SPACES. BOX AND LABEL APPROPRIATELY, AND RETURN TO OWNER. ANY UNUSED FIXTURES AND CONTROL DEVICES.

D3 EXISTING RECEPTACLE AND/OR DATA DEVICE LOCATION TO BE REMOVED. VERIFY EXISTING CIRCUITING, WIRING AND/OR MOUNTING INFORMATION. REMOVE EXISTING RECEPTACLE AND/OR DATA DEVICE FROM THE EXISTING CIRCUIT. EXISTING CIRCUIT MAY BE RE-USED FOR NEW AND EXISTING DEVICES IN THE REMOVED AREA. IF CIRCUITING IS NOT TO BE RE-USED, THE EXISTING CIRCUITING SHALL BE IDENTIFIED AND MARK BREAKER AS SPARE. CIRCUIT # FROM RECORD DRAWING AND SHOWN FOR REFERENCE ONLY.

D4 EXISTING RECEPTACLE LOCATION, IF REQUIRED, REMOVE DEVICE, RE-WORK, EXTEND TO NEW SURFACE, AND INSTALL NEW DEVICE AND COVERPLATE.

D5 REMOVE ALL CLASSROOM AIR SYSTEMS COMPLETELY E.G. RACKS, AV CNTRL, AV CEILINGS BOSES, PROJECTOR AND SCREENS, IR DOME, INPUT PLATES, ETC. LABEL APPROPRIATELY AND RETURN TO OWNER. SEE EX10X SERIES SHEET FOR NEW REQUIREMENTS.

D6 EXISTING AUDIO ENHANCEMENT (AE) CLASSROOM SOUND AMPLIFICATION (CEILING MOUNTED) CEILING-INGESTER/INTERCOM SPEAKERS/CEILING MICROPHONE-CALL SWITCHES TO BE REMOVED COMPLETELY. PROVIDE NEW INTERCOM AND AE MODULE IN CLASSROOM AND CALL SWITCH. SEE INTERCOM SHEETS FOR NEW REQUIREMENTS.

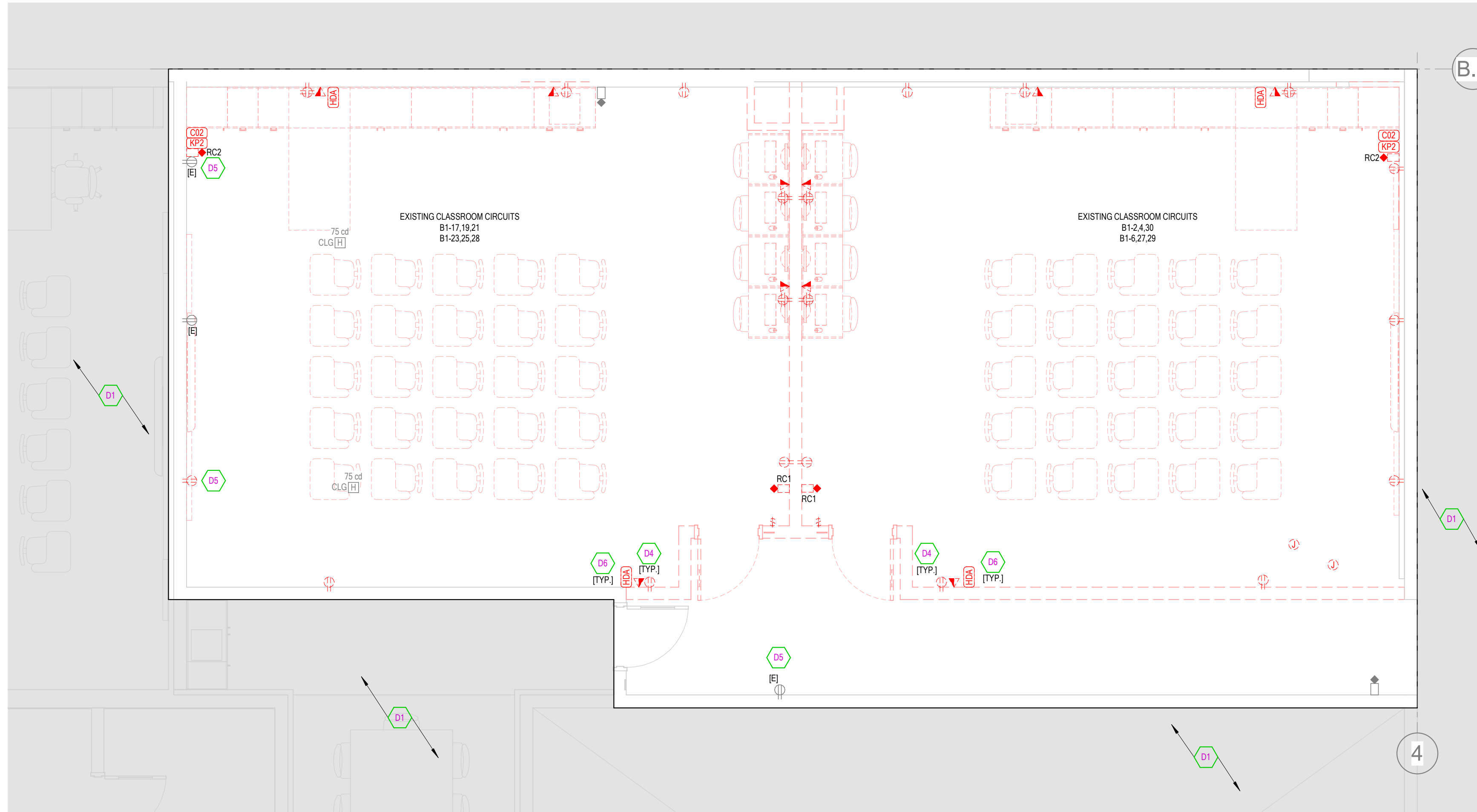
D7 EXISTING CEILING-MOUNTED WIRELESS ACCESS POINT TO BE REMOVED FOR REMOVAL OF EXISTING CEILING SYSTEM. TEMPORARILY STORE AND PROTECT DURING CONSTRUCTION. MAINTAIN CIRCUIT INTEGRITY AND RE-INSTALL IN NEW ACT CELING IN SIMILAR LOCATION. EXTEND WIRING/BOX AS REQUIRED. SEE EX10X SERIES SHEET FOR NEW REQUIREMENTS.

D8 DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE COMPLETELY. REWORK AND MAINTAIN FIRE ALARM CIRCUITS AS REQUIRED. LABEL APPROPRIATELY AND RETURN TO OWNER. SEE EX10X SERIES SHEET FOR NEW REQUIREMENTS.

D9 EXISTING CEILING-MOUNTED FIRE ALARM TO BE REMOVED FOR REMOVAL OF EXISTING CEILING SYSTEM. TEMPORARILY STORE AND PROTECT DURING CONSTRUCTION. MAINTAIN CIRCUIT INTEGRITY AND RE-INSTALL FIRE ALARM DEVICE IN NEW ACT CELING IN SIMILAR LOCATION. EXTEND WIRING/BOX AS REQUIRED. SEE EX10X SERIES SHEET FOR NEW REQUIREMENTS.

D10 EXISTING SOLARLITE SYSTEM TO REMAIN. CURRENT OPEN/CLS OPERATION BY PLACING CONTROL SYSTEM. ENSURE ALL REMAINING SOLARLITE OPERATE TOGETHER PER THE ASSOCIATED ROOM. REMOVE AND PROVIDE REPROGRAMMABLE AS REQUIRED. MAINTAIN AND MAINTAIN GROUNDING. CONSTRUCTION AND RE-INSTALL.

D11 EXISTING CEILING-MOUNTED EXIT SIGN TO BE REMOVED FOR REMOVAL OF EXISTING CEILING SYSTEM. TEMPORARILY STORE AND PROTECT DURING CONSTRUCTION. MAINTAIN CIRCUIT INTEGRITY AND RE-INSTALL EXIT SIGN IN NEW ACT CELING IN SIMILAR LOCATION. EXTEND WIRING/BOX AS REQUIRED. SEE EX10X SERIES SHEET FOR NEW REQUIREMENTS.



2 CLASSROOMS - ELECTRICAL DEMOLITION PLAN

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

GENERAL ELECTRICAL DEMOLITION NOTES

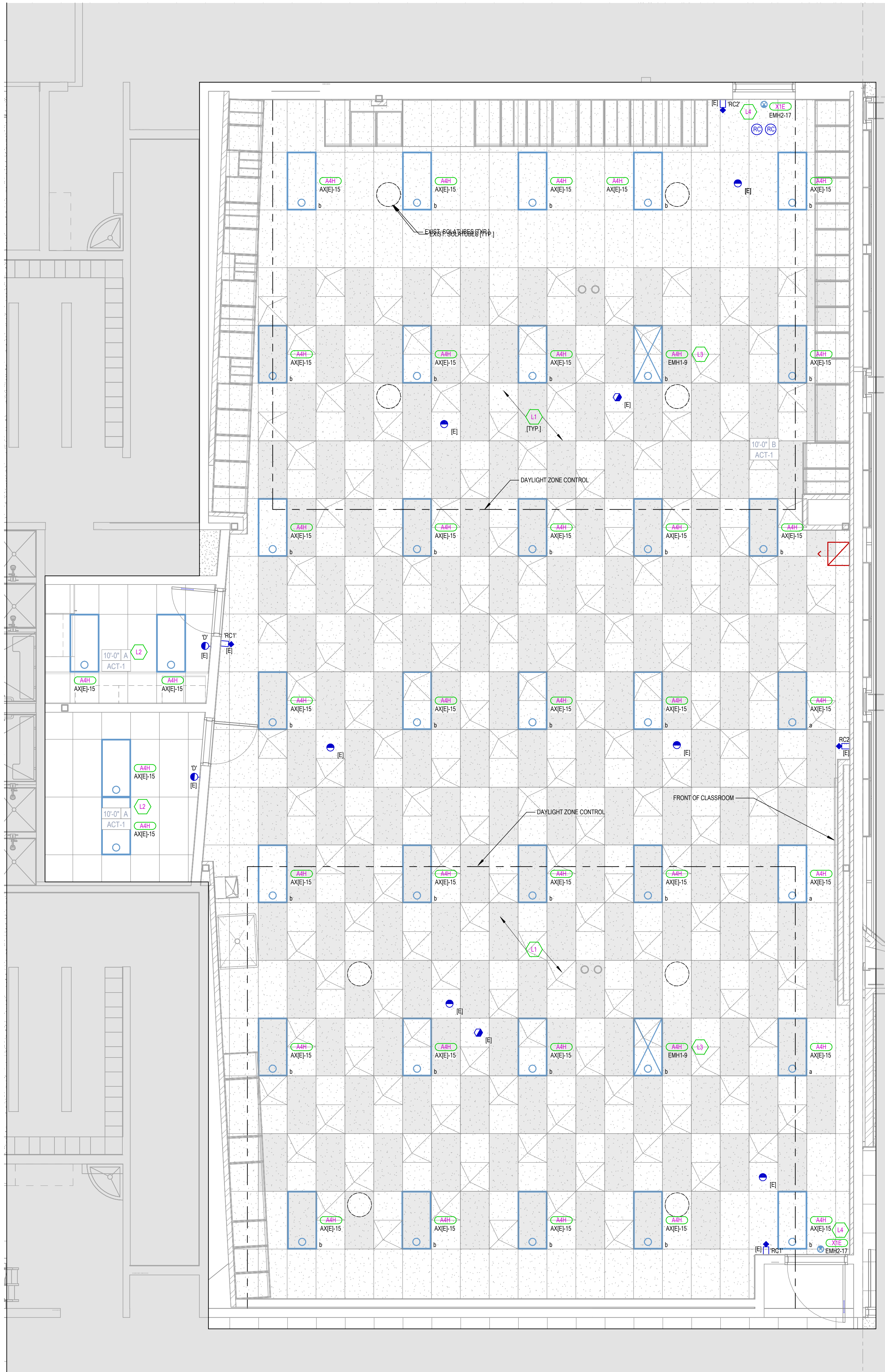
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SHEET KEYNOTES

- D1 NO ANTICIPATED CONSTRUCTION IN AREA, UNLESS OTHERWISE NOTED, PROTECT EXISTING ELECTRICAL APPARATUS AND EQUIPMENT REQUIRED FOR EXISTING FACILITIES AS REQUIRED; RELOCATE, REVISE, AND/OR DISCONNECT EXISTING ELECTRICAL DEVICES OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION
- E0 SOME EXISTING LIGHT FIXTURES TO BE RE-USED IN REMODELED SPACE. CAREFULLY REMOVE EXISTING LIGHT FIXTURES AND TEMPORARILY STORE AND PROTECT DURING CONSTRUCTION. SOME EXISTING LIGHT FIXTURES ARE TO BE REPLACED WITH NEW WORK. REWORKS ARE REQUIRED FOR NEW BUILD LAYOUTS. REMOVE THE EXISTING LIGHTING CONTROLS AS REQUIRED. MAINTAIN LIGHTING CIRCUIT INTEGRITY FOR USE OF EXISTING AND NEW WIRING. VERIFY ALL WIRING IS CORRECTLY IDENTIFIED BY COLOR CODED AND LABEL APPROPRIATELY, AND RETURN TO OWNER, UNLESS UNUSED FIXTURES AND CONTROL DEVICES.
- D4 EXISTING RECEPTACLE AND/OR DATA DEVICE LOCATION TO BE REMOVED. VERIFY EXISTING CIRCUITING CONDITIONS AND MAINTAIN CIRCUIT INTEGRITY OF ANY ADDITIONAL DEVICES NOT SHOWN BUT WIRED TO EXIST. EXISTING CIRCUITING TO BE REMOVED OR REWORN AS REQUIRED FOR NEW BUILD LAYOUTS. IN THE REMODEL AREA, IF CIRCUITS ARE NOT FEUSED REMOVE CIRCUITRY BACK TO PANELBOARD COMPLETELY AND LABEL BREAKER AS DISCONNECTED FROM RECORD DRAWING AND SHOW FOR REFERENCE ONLY.
- D5 EXISTING RECEPTACLE LOCATION, IF REQUIRED, REMOVE DEVICE, RE-WORK, EXTEND TO NEW SURFACE, AND INSTALL NEW DEVICE AND COVERPLATE.
- D6 REMOVE ALL CLASSROOM AIR SYSTEMS COMPLETELY E.G. RACKS, AIR CNTRL, AIR CEILING BOXES, PROJECTOR AND SCREENS, IR CODE, INPUT PLATES, ETC. REMOVE EQUIPMENT AND RETURN TO OWNER. SEE EX10X SERIES SHEET FOR NEW REQUIREMENTS
- D7 EXISTING AUDIO ENHANCEMENT [AE] CLASSROOM SOUND AMPLIFICATION (CEILING INTERCOM) CEILING INTERCOM MODULE AND MICROPHONE-CALL SWITCHES TO BE REMOVED COMPLETELY. PROVIDE NEW RAUILL AND INTERCOM MODULE IN CLASSROOM AND CALL SWITCH. SEE INTERCOM SHEETS FOR NEW REQUIREMENTS
- D8 EXISTING CEILING-MOUNTED WIRELESS ACCESS POINT TO BE REMOVED FOR REMOVAL OF EXISTING CEILING MOUNTED WIRELESS ACCESS POINTS. WIRELESS ACCESS POINTS TO BE REMOVED FOR REMOVAL AND RE-INSTALL IN NEW ACCT LOC IN SIMILAR LOCATION. EXTEND WIRING/BOX AS REQUIRED. SEE EX10X SERIES SHEET FOR NEW REQUIREMENTS
- D9 DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE COMPLETELY. REWORK AND MAINTAIN FIRE ALARM CIRCUITRY AS REQUIRED. LABEL APPROPRIATELY AND RETURN TO OWNER. SEE EX10X SERIES SHEET FOR NEW REQUIREMENTS
- D10 EXISTING CEILING-MOUNTED FIRE ALARM TO BE REMOVED FOR REMOVAL OF EXISTING CEILING SYSTEM TEMPORARY STORE AND PROTECT DURING CONSTRUCTION. MAINTAIN CIRCUIT INTEGRITY AND RE-INSTALL WIRING IN NEW ACCT LOC IN SIMILAR LOCATION. EXTEND WIRING/BOX AS REQUIRED. SEE EX10X SERIES SHEET FOR NEW REQUIREMENTS
- D11 EXISTING SLOTTED SYSTEM TO REMAIN. CURRENT OPEN/CLOSE OPERATION BY LIGHTING CONTROL SYSTEM. ENSURE ALL REMAINING SLOTTED OPERATE TOGETHER PER THE ASSOCIATED ROOM. REPAIR AND REPROGRAMMING AS REQUIRED.

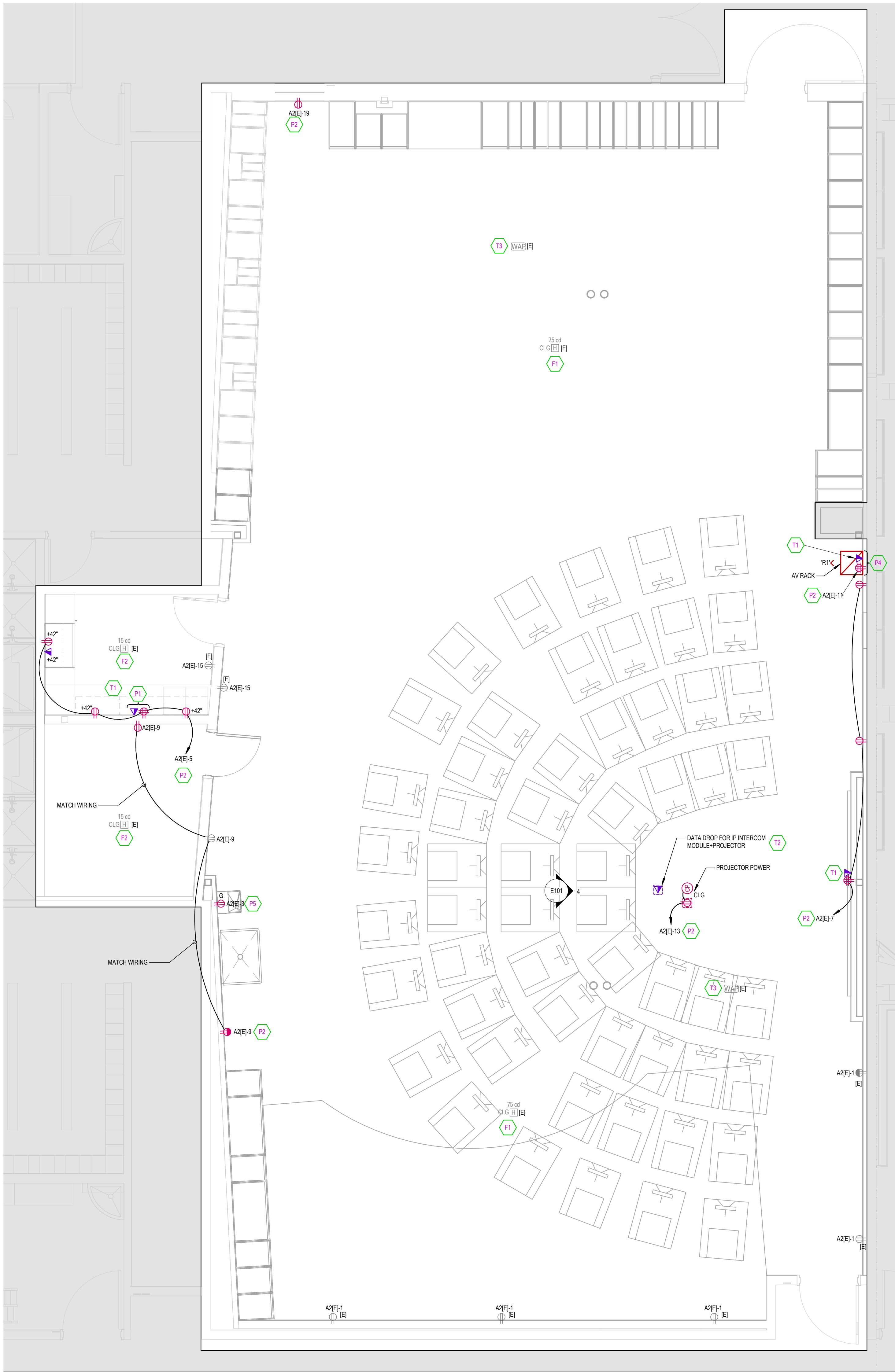
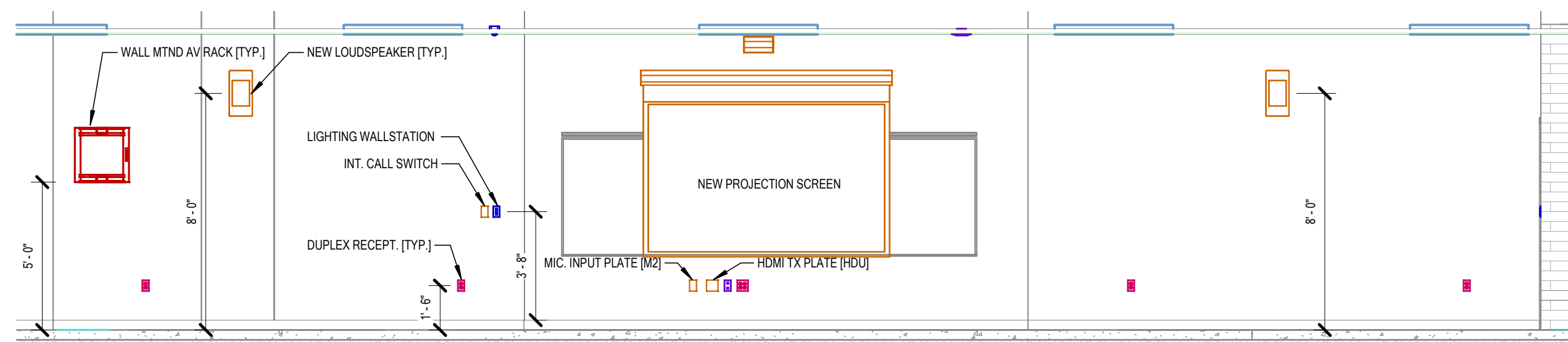


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1 BAND - LIGHTING PLAN
SCALE = 1/4" = 1'-0"

4 BAND - FRONT OF CLASSROOM
SCALE = 1/4" = 1'-0"



2 BAND - ELECTRICAL PLAN
SCALE = 1/4" = 1'-0"

GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGNOSTIC. THE INTENT IS TO ALIGN CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. CONTRACTOR TO PAINT EXPOSED RACEWAY TO MATCH ADJACENT SURFACES.
- EXISTING CLASSROOM LIGHTING CONTROL SYSTEM IS ACUTY NIGHT8. DIVISION 26 SHALL REMOVE AND REINSTALL EXISTING NIGHT DEVICES AS INDICATED. PROVIDE NEW DEVICES, RELAYS, AND SENSORS AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM. REPROGRAM LIGHTING CONTROLS TO MATCH NEW CLASSROOM LAYOUT. COORDINATE NIGHT SOLUTION AND SYSTEM UPDATES WITH JRC.
- PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING.
- PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIT SIGNS.
- IF SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTROLLERS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS.
- COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETS DRAWINGS.
- ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELEDATA SPEC. AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
- PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
- ALL RECEPTACLES LOCATED THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 408.12.
- PROVIDE NEW DATA DROPS/OUTLETS AS SHOWN. ROUTE AND TERMINATE AT NEAREST TELECOM ROOM/IDF.
- EXTEND EXISTING FIRE ALARM INITIATION/NOTIFICATION CIRCUITS TO ACCOMMODATE RELOCATED AND NEW FIRE ALARM DEVICES AS REQUIRED.
- PROVIDE UPDATED PROGRAMMING AND COMMISSIONING ON FIRE ALARM, ACCESS CONTROL, INTRUSION, ETC.

SHEET KEYNOTES

- | | |
|----|--|
| F1 | REWORK AND REINSTALL PREVIOUSLY REMOVED FIRE ALARM DEVICE. |
| F2 | REINSTALL EXISTING FIRE ALARM DEVICE PREVIOUSLY REMOVED DURING DEMOLITION. EXTEND EXISTING CIRCUIT AND REWORK AS REQUIRED. |
| L1 | PROVIDE NEW FIXTURES AS SHOWN. REINSTALL AND REWORK EXISTING LIGHTING CONTROL DEVICES AS SHOWN. REPROGRAM LIGHTING CONTROLS AS INDICATED. ENSURE EXISTING SOLATUBES WORK ACCORDINGLY. WIRE FIXTURES TO LIGHTING CIRCUIT PREVIOUSLY FEEDING THIS CLASSROOM/AREA OR NEW CIRCUIT AS SHOWN. |
| L2 | PROVIDE NEW FIXTURES AS SHOWN. REINSTALL AND REWORK EXISTING LIGHTING CONTROL DEVICES AS SHOWN. WIRE FIXTURES TO LIGHTING CIRCUIT PREVIOUSLY FEEDING THIS CLASSROOM/AREA OR NEW CIRCUIT AS SHOWN. |
| L3 | PROVIDE EMERGENCY FIXTURE AS SHOWN. UTILIZE EXISTING UNSWITCHED EMERGENCY CIRCUIT WITHIN THE AREA AND ROUTE THROUGH UL924 RELAY WITH ROOM CONTROLLER(S) FOR AUTOMATIC ON OF EGRESS LIGHTING. |
| L4 | REINSTALL EXISTING EXIT SIGN AS SHOWN. |
| P1 | DEVICES LOCATED IN KNEESPACE OF MILLWORK. COORDINATE WITH MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. |
| P2 | PROVIDE NEW DEVICES AS SHOWN. CIRCUIT TO EXISTING RECEPTACLE CIRCUIT FREED DURING DEMOLITION. VERIFY EXISTING CIRCUITING CONDITIONS AND MAINTAIN CIRCUIT INTEGRITY OF ANY ADDITIONAL DEVICES NOT SHOWN BUT WIRED TO THE EXISTING CIRCUIT. |
| P4 | DEVICE MOUNTED BEHIND AV RACK. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL/AUDIOVISUAL ELEVATIONS AND WITH AV INSTALLER PRIOR TO ROUGH-IN. POWER, DATA AND AV JUNCTION BOXES SHALL BE INSTALLED IN THE SAME STUD CAVITY. |
| P5 | PROVIDE NEW DEVICES AS SHOWN. CIRCUIT TO EXISTING RECEPTACLE CIRCUIT FREED DURING DEMOLITION. VERIFY EXISTING CIRCUITING CONDITIONS AND MAINTAIN CIRCUIT INTEGRITY OF ANY ADDITIONAL DEVICES NOT SHOWN BUT WIRED TO THE EXISTING CIRCUIT. PROVIDE GFCI BREAKER IF REQUIRED TO PROVIDE GFCI PROTECTION. |
| T1 | PROVIDE CAT6A DATA CABLE(S) AND OUTLET AS SHOWN. ROUTE AND TERMINATE AT NEAREST TELECOM ROOM/IDF. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. |
| T2 | PROVIDE 2 CAT6A DATA CABLES WITH 2 PORT SURFACE BOX FOR PROJECTOR AND IP INTERCOM MODULE. ROUTE AND TERMINATE AT NEAREST TELECOM ROOM/IDF. |
| T3 | REINSTALL EXISTING WIRELESS ACCESS POINT DEVICE PREVIOUSLY REMOVED DURING DEMOLITION. EXTEND EXISTING WIRING AND REWORK AS REQUIRED. |

INDIAN HILLS BAND & CHORAL REMODEL
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CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - APRIL 14, 2025



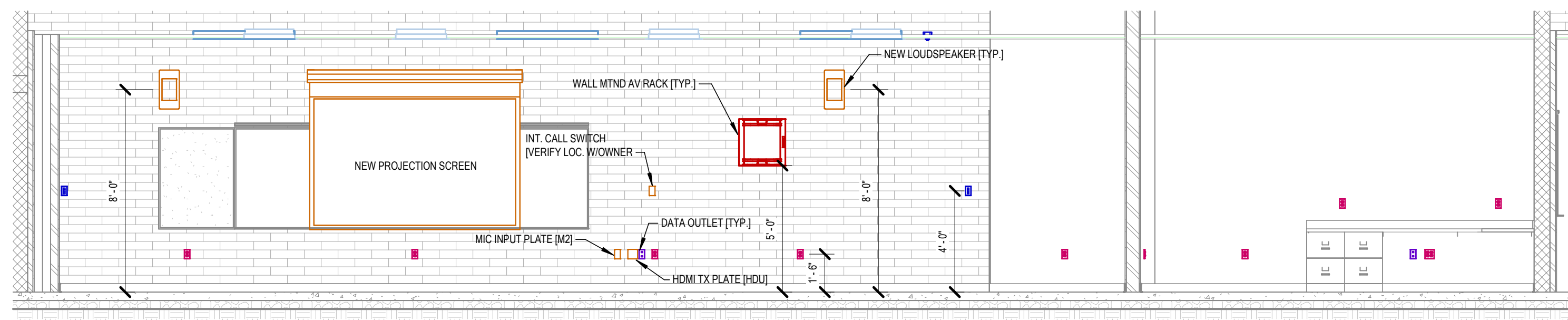
DATE REVISION

PROJECT NUMBER 250273

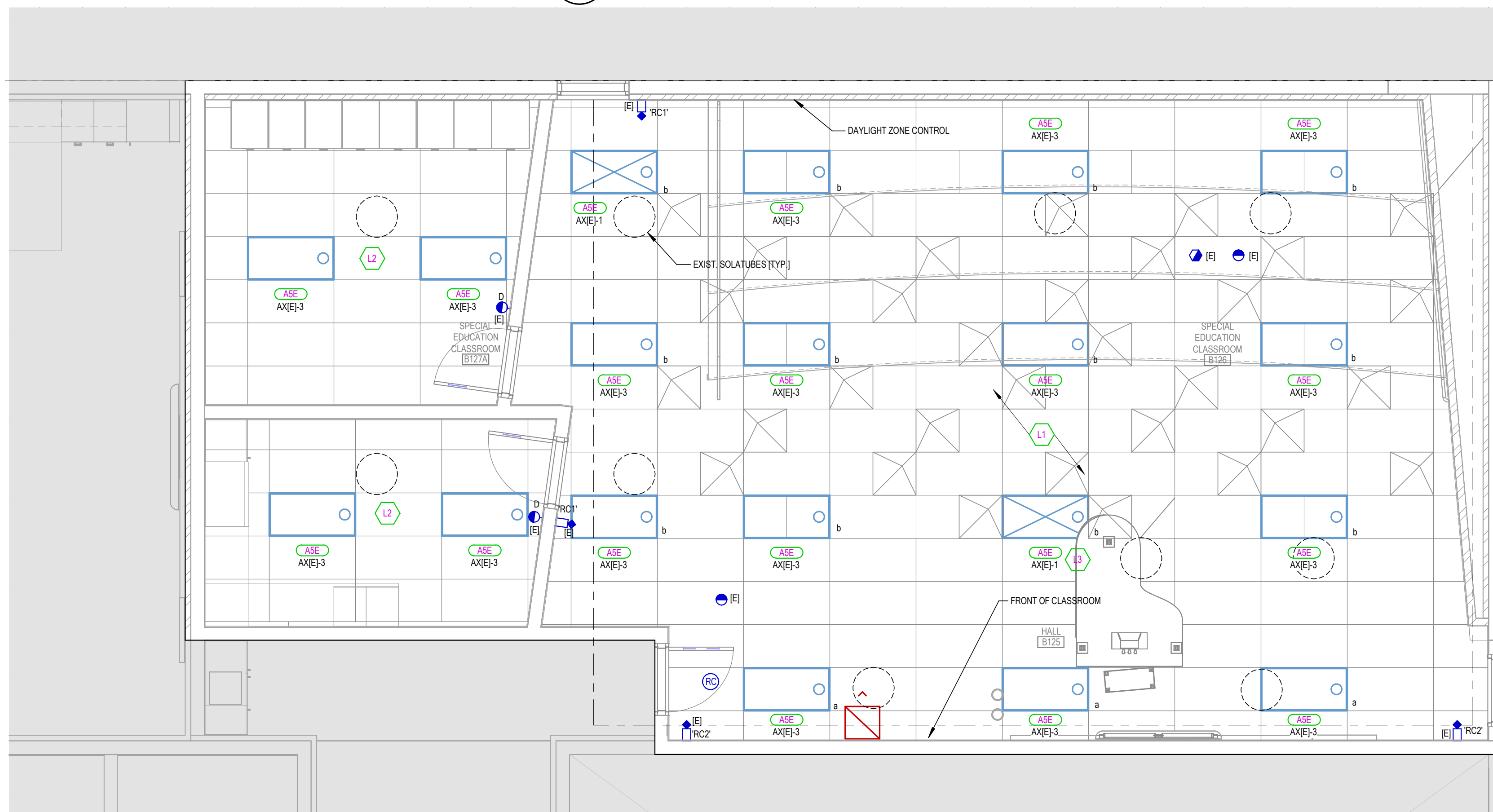
BAND -
LIGHTING
&
ELECTRICAL
PLANS

E101

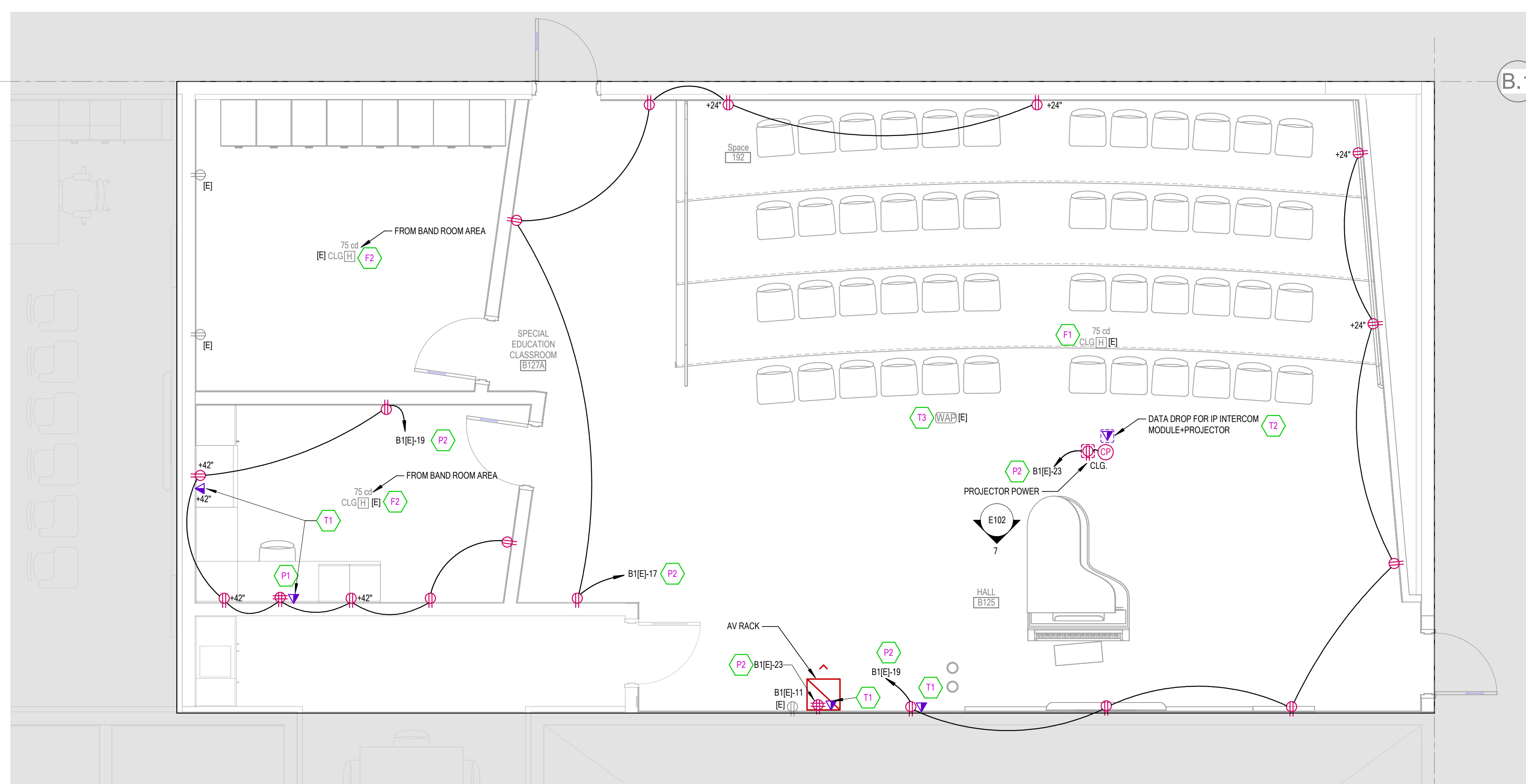
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7 CHORAL - FRONT OF CLASSROOM
SCALE = 1/4" = 1'-0"



1 CHORAL - LIGHTING PLAN



2 CHORAL - ELECTRICAL PLAN
SCALE = 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING FIXTURES FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILING, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ILLUMINATE THE SPACE AND TO BRIDGE THE GAP BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. CONTRACTOR TO PAINT EXPOSED RACEWAY TO MATCH ADJACENT SURFACES.
2. EXISTING CLASSROOM LIGHTING CONTROL SYSTEM IS ACUITY NIGHTRIDE. DIVISION 26 SHALL REMOVE AND REINSTALL EXISTING NIGHT LIGHT DEVICES AS INDICATED. PROVIDE NEW DEVICES, RELAYS, AND SENSORS AS APPLICABLE TO A COMBINATION OF THE EXISTING NIGHTRIDE SYSTEM AND THE REPROGRAMMING CONTROLS TO MATCH CLASSROOM LAYOUT. COORDINATE NIGHT LIGHT SOLUTION AND SYSTEM UPDATES WITH JRC.
3. PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING.
4. PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIST SIGNS.
5. IF SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTROLLERS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS.
6. COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECT FOR DRAWINGS, ATTIL, AND SAFETY. PROVIDE LIGHTING AND CABINETRY WITH JRC.
7. ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SYSTEMS, AUDIOVISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
8. ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SYSTEMS, AUDIOVISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELEDATA SPEC, AND AT 5'-0" INTERVALS AND AT EACH BUILDING CORNER. PROVIDE SUPPORTS TO BE INSTALLED TO SUPPORT ALL CABLES. PROVIDE CABLE USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WINGS FOR SUPPORT IS NOT ALLOWED.
9. PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, ADJUTANT SHALL PROVIDE GFCI RECEPTACLE FOR USE. WHETHER SHOWN OR NOT.
10. ALL RECEPTACLE CABLED THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 406.12.
11. PROVIDE NEW DATA DROP/OUTLETS AS NOTATION. ROUTE AND TERMINATE AT NEAREST TELECOM ROOM/FID.
12. EXTEND EXISTING FIRE ALARM INITIATION/NOTIFICATION CIRCUITS TO ACCOMMODATE RELOCATED AND NEW FIRE ALARM DEVICES AS REQUIRED.
13. PROVIDE UPDATED PROGRAMMING AND COMMISSIONING ON FIRE ALARM, ACCESS CONTROL, INTRUSION

SHEET KEYNOTES

- F1 REWORK AND REINSTATE FIRE ALARM DEVICE PREVIOUSLY REMOVED DURING DEMOLITION. EXTEND EXISTING CIRCUIT AND REWORK AS REQUIRED.
- L1 REINSTATE EXISTING FIRE ALARM DEVICE PREVIOUSLY REMOVED DURING DEMOLITION. EXTEND EXISTING CIRCUIT AND REWORK AS REQUIRED.
- L1 PROVIDE NEW FIXTURES AS SHOWN. REINSTATE AND REWORK EXISTING LIGHTING CONTROL DEVICES AS SHOWN. REPROGRAM LIGHTING CONTROLS AS INDICATED. ENSURE EXISTING SOLARITIES WORK ACCORDINGLY. WIRE FIXTURES TO LIGHTING CIRCUIT PREVIOUSLY FEEDING THIS CLASSROOM/AREA OR NEW CIRCUIT AS SHOWN.
- L2 PROVIDE NEW FIXTURES AS SHOWN. REINSTATE AND REWORK EXISTING LIGHTING CONTROL DEVICES AS SHOWN. WIRE FIXTURES TO LIGHTING CIRCUIT PREVIOUSLY FEEDING THIS CLASSROOM/AREA OR NEW CIRCUIT AS SHOWN.
- L3 PROVIDE EMERGENCY FIXTURE AS SHOWN. UTILIZE EXISTING UNWITNESSED EMERGENCY CIRCUIT WITHIN THE AREA AND ROUTE THROUGH (US2A RELAY WITH ROOM CONTROLLER(S)) FOR AUTOMATIC ON OF EGRESS LIGHTING.
- P1 DEVICES LOCATED IN KNEESPACE OF MILLWORK. COORDINATE WITH MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.
- P2 PROVIDE NEW DEVICES AS SHOWN. CIRCUIT TO EXISTING RECEPTACLE CIRCUIT FREED DURING DEMOLITION. VERIFY EXISTING CIRCUITING CONDITIONS AND MAINTAIN CIRCUIT INTEGRITY OF ANY ADDITIONAL DEVICES NOT SHOWN BUT WIRED TO THE EXISTING CIRCUIT.
- P2 PROVIDE CAT6A DATA CABLE(S) AND OUTLET AS SHOWN. ROUTE AND TERMINATE AT NEAREST TELECOM ROOM/IDF. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- P2 PROVIDE 2 CAT6A DATA CABLES WITH 2 PORT SURFACE BOX FOR PROJECTOR AND IP INTERCOM MODULE. ROUTE AND TERMINATE AT NEAREST TELECOM ROOM/IDF.
- R1 REINSTATE EXISTING WIRELESS ACCESS POINT DEVICE PREVIOUSLY REMOVED DURING DEMOLITION. EXTEND EXISTING WIRING AND REWORK AS REQUIRED.

GENERAL DIAGRAM NOTES

1. ALL PROGRAMMING SHALL MEET THE REQUIREMENTS OF THE IECI 2021 OR CURRENT ENERGY CODE APPLIED TO THE PROJECT.
2. EXISTING COMMERCIAL LIGHTING CONTROL SYSTEM IS AN AUTOMATIC NIGHTTIME SYSTEM. DIVISION 26 SHALL REMOVE, RELOCATE, AND RE-INSTALL EXISTING NIGHT CONTROL DEVICES AS INDICATED ON THE DRAWINGS. PROVIDE NEW DEVICES, LEADING SENSORS, AND RELATED COMPONENTS AS REQUIRED TO PROVIDE A FULLY FUNCTIONAL AND CODE-COMPLIANT LIGHTING CONTROL SYSTEM. THE PROGRAMMING SHALL BE PROVIDED BY THE NEW CLASSROOM LAYOUT AND ZONING REQUIREMENTS. DIVISION 26 SHALL COORDINATE WITH JRC TO DEVELOP AND IMPLEMENT THE UPDATED NIGHT CONTROL SOLUTION, ENSURING FULL INTEGRATION WITH EXISTING INFRASTRUCTURE. FOR LIGHTING CONTROL SYSTEM SUPPORT AND PROGRAMMING COORDINATION.
3. COORDINATE ALL INSTALLATION REQUIREMENTS, CONNECTIONS AND CABLE TYPE WITH THE SUPPLIER PRIOR TO ANY INSTALLATION.
4. PROVIDE DAYLIGHT ZONE CONTROL. REQUIREMENTS PER 405.2.2.3.
5. PROGRAM OF ALL LIGHTING CONTROL SYSTEMS AS INDICATED AND/OR AS DIRECTED BY THE ELECTRICAL ENGINEER AND/OR OWNER. MEET WITH THE ELECTRICAL ENGINEER AT THEIR OFFICE PRIOR TO PREPARATION OF SHOP DRAWINGS TO DISCUSS SPECIFIC PROGRAMMING AND ZONING REQUIREMENTS OF SYSTEM(S). EACH NETWORKED OR STANDALONE SYSTEM SHALL BE PROGRAMMED TO MEET THE REQUIREMENTS OF THE PROJECT.

WALL STATION 'RC2' CONFIGURATION

ENGRAVING		PROGRAMMING
SCENE 1	SCENE 2	SCENE 1 = BUTTON TO TOGGLE LIGHTS 'x' ALONG TEACHING WALL ON/OFF AND LOWER LIGHTS 'y' TO 50%.
		SCENE 2 = BUTTON TO TOGGLE LIGHTS 'x' 'y' ALONG TEACHING WALL ON/OFF.
SCENE 3	SCENE 4	SCENE 1 = BUTTON SHALL TURN ON/OFF ALL FIXTURES IN ASSOCIATED ZONE 'y'.
		SCENE 2 = BUTTON SHALL TURN ON/OFF ALL FIXTURES IN ASSOCIATED ZONE 'y'.
ON	▲	ON = BUTTON TO TURN ALL LIGHTING IN ROOM ON.
		RAISE = BUTTON SHALL RAISE LIGHT LEVEL IN SPACE.
OFF	▼	OFF = BUTTON TO TURN ALL LIGHTING IN ROOM OFF.
		LOWER = BUTTON SHALL LOWER LIGHT LEVEL IN SPACE.

CONTROL SEQUENCE

UPON ENTERING THE ROOM, OCCUPANCY SENSOR SHALL TURN LIGHTS ON TO 50% LIGHTING LEVEL. OCCUPANT THEN HAS CONTROL OF LIGHTING THRU WALL STATION. WHEN ROOM IS VACANT, OCCUPANCY SENSOR WILL TURN OFF LIGHTS AFTER TIME DELAY.

WALL STATION 'RC1' CONFIGURATION

ENGRAVING	PROGRAMMING
ON/OFF	ON - BUTTON TO TURN ALL LIGHTING IN ROOM ON OFF - BUTTON TO TURN ALL LIGHTING IN ROOM OFF
▲	BUTTON SHALL RAISE LIGHT LEVEL IN SPACE
▼	BUTTON SHALL LOWER LIGHT LEVEL IN SPACE

CONTROL SEQUENCE

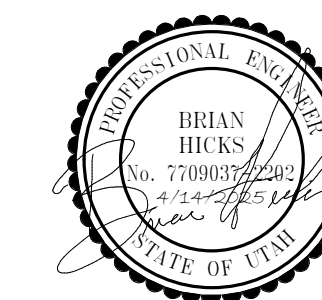
UPON ENTERING THE ROOM, OCCUPANCY SENSOR SHALL TURN LIGHTS ON TO 50% LIGHTING LEVEL. OCCUPANT THEN HAS CONTROL OF LIGHTING THRU WALL STATION. WHEN ROOM IS VACANT, OCCUPANCY SENSOR WILL TURN OFF LIGHTS AFTER TIME DELAY.

WALL STATION 'D' CONFIGURATION

ENGRAVING	PROGRAMMING
ON/OFF	BUTTON SHALL TOGGLE ON/OFF LIGHTING LOAD
RAISE	PRESS AND HOLD - BUTTON SHALL INCREASE LIGHT LEVELS
LOWER	PRESS AND HOLD - BUTTON SHALL DECREASE LIGHT LEVELS

CONTROL SEQUENCE

UPON ENTERING THE SPACE, THE INTEGRAL OCCUPANCY SENSOR SHALL TURN LIGHTING ON TO 50% LIGHT LEVEL. OCCUPANT THEN CAN SET LIGHT LEVELS BASED UPON AVAILABLE SCENES. IF APPLICABLE, THE INTEGRAL DAYLIGHT SENSOR SHALL ADJUST LIGHT LEVELS IN THE DAYLIGHTING CONTROL ZONE BASED ON AVAILABLE NATURAL LIGHT LEVELS. OCCUPANCY SENSOR WILL TURN OFF LIGHTS AFTER VACANCY/TIME OUT. DISABLE PHOTOCELL/ADAPTIVE DAYLIGHT HARVESTING MODE IN ROOMS THAT DO NOT REQUIRE DAYLIGHTING, PROVIDING A SWITCHING TO CONTROL FIXTURES ACCORDINGLY.



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CABLING GROUPS AND CONDUIT SEPARATION SCHEDULE

AUDIO AND VIDEO WIRING TYPES	
AUDIO AND VIDEO SYSTEM WIRING IS DIVIDED INTO WIRING GROUPS ACCORDING TO THEIR NOMINAL LEVELS	
GROUP	WIRING TYPE
GROUP 1	FIBER OPTIC CABLE
GROUP 2	0 nV TO 100 mV SIGNALS, EXAMPLE: MICROPHONE LEVEL SIGNAL
GROUP 3	100 mV TO 10 V SIGNALS, EXAMPLE: LINE-LEVEL SIGNAL
GROUP 4	10 V TO 70 V SIGNALS, EXAMPLE: SPEAKER LEVEL SIGNAL
GROUP 5	CONTROL, DIGITAL CIRCUITS, DATA AND VIDEO

NOTE: GROUPS LISTED ABOVE SHALL NEVER BE COMBINED WITHIN THE SAME CONDUIT

AUDIO AND VIDEO CONDUIT SEPARATION
MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING WIRING OF DIFFERENT AUDIO AND VIDEO GROUPS IS AS FOLLOWS:

GROUP	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5
GROUP 1	ADJACENT	ADJACENT	ADJACENT	ADJACENT	ADJACENT
GROUP 2	ADJACENT	ADJACENT	6"	12"	12"
GROUP 3	ADJACENT	6"	ADJACENT	12"	6"
GROUP 4	ADJACENT	12"	12"	ADJACENT	6"
GROUP 5	ADJACENT	12"	6"	6"	ADJACENT

NOTE: NINETY DEGREE CROSSING IN CLOSE PROXIMITY IS PERMITTED.

ELECTRICAL CONDUIT SEPARATION
MINIMUM CONDUIT SEPARATION BETWEEN CONDUITS CARRYING AUDIO AND VIDEO WIRING AND OTHER ELECTRICAL SERVICE CONDUIT IS AS FOLLOWS:

	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5
277/480V AC CIRCUIT	ADJACENT	24"	24"	24"	24"
120/208V AC CIRCUIT	ADJACENT	24"	12"	12"	24"

NOTE: CONDUITS SHALL NOT RUN MORE THAN 20 FEET IN PARALLEL WITHIN THE GIVEN DISTANCES ABOVE

AUDIOVISUAL CABLE AND CONDUIT SCHEDULE

- NOTES:
- APPROVED EQUALS FROM OTHER MANUFACTURERS ARE BELDEN, GEPCO/GENERAL, ICE, KRAMER, EXTRON, CRESTRON, LIBERTY CABLE, AND WINDY CITY WIRE.
 - PROVIDE PLENUM RATED CABLES IN ANY "AIR HANDLING" SPACES E.G. ABOVE CEILINGS, RAISED FLOORS, CHASES, ETC.
 - CABLE QUANTITY INDICATED ON DRAWINGS SHOWS ON FINAL RUN. IF NOT NOTED PROVIDE CABLING FOR SINGLE DEVICE.
 - CONDUIT REQUIREMENTS SHOWN ARE MINIMUM CONDUIT SIZE REQUIRED FOR A SINGLE CABLE, UNLESS OTHERWISE NOTED ON DRAWINGS. NUMBER OF CABLES LISTED IS THE MAXIMUM AMOUNT ALLOWED FOR CONDUIT SIZE INDICATED.
 - WHEN COMBINING CABLE TYPES OF THE SAME GROUP, THE TYPE WITH THE LARGEST CONDUIT REQUIREMENT DICTATES CONDUIT SIZE.
 - PROVIDE ON ALL HDMI CABLES LONGER THAN 35' OR WITH MORE THAN 3 CONNECTION POINTS (1) ACTIVE HDMI EXTENSION DEVICE.
 - ALL CATEGORY CABLE SHALL BE TESTED AND CERTIFIED TO ANSI/TIA/EIA-568C AND IEEE 802.3an STANDARDS USING A LEVEL 1 TESTER.
 - REFER TO SPECIFICATIONS FOR STP CABLE REQUIREMENTS. ALL UNSHIELDED (UTP) CATEGORY CABLES WITHIN THE PROJECT SHALL BE SUPPLIED FROM A SINGLE MANUFACTURER AND MATCH MAKE/MODEL.
 - HDMI CABLES ARE INTENDED TO PASS 4K 60 HZ FROM SOURCE TO DESTINATION. CONTRACTOR TO VERIFY THE LENGTH OF ALL CABLES USED MEET THIS REQUIREMENT.
 - * INDICATES DEFAULT CABLE IF MANUFACTURER DOES NOT RECOMMEND A SPECIFIC CABLE.
 - ** INDICATES DEFAULT CABLE IF HORIZONTAL CABLING IS EXCLUDED FROM THE PROJECT AND NOT OWNER PROVIDED.

CABLE TYPE	DESCRIPTION	CONDUIT REQUIREMENTS	MANUFACTURER	MODEL NUMBER	CABLE GROUP
(#)AT	ANTENNA, COAXIAL RG8X	1" CONDUIT = (7) CABLES 1 1/2" CONDUIT = (12) CABLES	WEST PENN	807 *	5
(#)CT	CONTROL, 2/22 SHIELDED, 2/18 UNSHIELDED	1" CONDUIT = (7) CABLES 1 1/4" CONDUIT = (12) CABLES	WEST PENN	77350 * D23550 (P)	5
(#)HD	HDMI < 20', ULTRA FLEXIBLE	1 1/4" CONDUIT = (1) CABLES 2" CONDUIT = (3) CABLES	EXTRON CRESTRON	HDMI ULTRA## CBL-HD-#	5
(#)HD	HDMI > 20'	1 1/4" CONDUIT = (1) CABLES 2" CONDUIT = (3) CABLES	EXTRON KRAMER	HDMI PRO PAXX CP-HM/HMETH (P)	5
(#)LA	LINE LEVEL, 22 AWG MICROPHONE, 22 AWG	1" CONDUIT = (23) CABLES 1 1/2" CONDUIT = (77) CABLES	WEST PENN	291 D23454 (P)	3 2
(#)MF	MULTIMODE FIBER OPTIC	1" CONDUIT MINIMUM	PER SPEC	27 1500	1
(#)RG6	RG-6 COAXIAL CABLE	1" CONDUIT = (8) CABLES 1 1/2" CONDUIT = (18) CABLES	WEST PENN	841 25841 (P)	5
(#)RG11	RG-11 COAXIAL CABLE	1" CONDUIT = (3) CABLES 1 1/4" CONDUIT = (6) CABLES	WEST PENN	821 D25821 (P)	5
(#)S12	SPEAKER, 12 AWG	1" CONDUIT = (3) CABLES 1 1/2" CONDUIT = (7) CABLES 2" CONDUIT = (11) CABLES	WEST PENN	227 25227B (P)	4
(#)S16	SPEAKER, 16 AWG	1" CONDUIT = (10) CABLES 1 1/4" CONDUIT = (17) CABLES	WEST PENN	225 25225B (P)	4
(#)SFB	SINGLE MODE FIBER OPTIC	1" CONDUIT MINIMUM	PER SPEC	27 1500	1
(#)STP	SHIELDED TWISTED PAIR, CAT 6A	1" CONDUIT = (4) CABLES 1 1/4" CONDUIT = (8) CABLES	PER MFG WEST PENN	4246AF * 254246AF (P) *	5
(#)UTP	UN-SHIELDED TWISTED PAIR, CAT 6	1" CONDUIT = (9) CABLES 1 1/4" CONDUIT = (15) CABLES	PER SPEC WEST PENN	4246 ** 254246 (P) ** SPEC 27 1500	5
(#)VIG	HIGH RESOLUTION VIDEO	1" CONDUIT = (1) CABLES 1 1/4" CONDUIT = (4) CABLES	WEST PENN	5CR0B 255CR0B (P)	5
(#)SDI	SERIAL DIGITAL INTERFACE (RG-45 COAX)	1" CONDUIT = (8) CABLES 1 1/2" CONDUIT = (18) CABLES	WEST PENN	841 25841 (P)	5
(#)USB	USB EXTENSION CABLE	1" CONDUIT = (3) CABLES 1 1/4" CONDUIT = (10) CABLES	CABLES TO GO	52108	5
(#)PX	MANUFACTURER PROPRIETARY CABLE	AS NOTED	SPEC. 27 4100	SPEC. 27 4100	NA

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
AF	ABOVE FINISH FLOOR	MEP	MECHANICAL, ELECTRICAL AND PLUMBING
ARCH	ARCHITECTURE	MAX	MAXIMUM
AUX	AUXILIARY	MIC	MICROPHONE
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
BC	BARE COPPER	MTG	MOUNTING
C	CONDUIT	N/A	NOT APPLICABLE
CATV	CABLE TELEVISION	NIC	NOT IN CONTRACT
CLG	CEILING	NTS	NOT TO SCALE
CONTR	CONTRACTOR	PLEN	PLENUM
CU	COPPER	(R)	RELOCATE
CW	COMPLETE WITH	RECP	RECEPTACLE
DWG	DRAWING	SPEC	SPECIFICATIONS
(E)	EXISTING	SPKR	SPEAKER
FT	FOOT	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
IG	ISOLATED GROUND	UG	UNDERGROUND
IN	INCH	UPS	UNINTERRUPTED POWER SUPPLY
J-BOX	JUNCTION BOX	W	WATTS
LTG	LIGHTING	W/O	WITHOUT

AUDIOVISUAL SYMBOL LEGEND

- NOTES:
- HEIGHT MEASURED TO BOTTOM OF THE DEVICE FROM FINISHED FLOOR.
 - DEVICES WITH "X" ADJACENT TO IT INDICATE DEVICE TO BE COORDINATED WITH MILLWORK PRIOR TO ROUGH-IN.
 - ROUGH-IN, JUNCTION BOX, CONDUIT, AND MOUNTING HEIGHT ARE DEFAULT REQUIREMENTS. REFER TO PLANS FOR SPECIFIC NOTES AND REQUIREMENTS FOR A SPECIFIC INSTANCE.
 - CONDUIT STUBBED INTO ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
 - CABLE FROM DEVICE TO BE HOMERUN TO DESTINATION WITHOUT SPLICES.
- GENERAL SCHEDULE NOTES:
- TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.
 - DEVICES WITH "X" ADJACENT TO IT INDICATE DEVICE TO BE COORDINATED WITH MILLWORK PRIOR TO ROUGH-IN.
 - ROUGH-IN, JUNCTION BOX, CONDUIT, AND MOUNTING HEIGHT ARE DEFAULT REQUIREMENTS. REFER TO PLANS FOR SPECIFIC NOTES AND REQUIREMENTS FOR A SPECIFIC INSTANCE.
 - CONDUIT STUBBED INTO ACCESSIBLE CEILING UNLESS OTHERWISE NOTED.
 - CABLE FROM DEVICE TO BE HOMERUN TO DESTINATION WITHOUT SPLICES.

SYMBOL	DESCRIPTION	J-BOX	CONDUIT	MOUNTING HEIGHT	CABLE TYPE	NOTES
(M) (M2)	MICROPHONE INPUT, WALL PLATE (M1/M2 = D1, M3/M4 = D2)	D1, D2	(1) 3/4"	RECEPTACLE HEIGHT	(#) MA	2.4.
(AX)	AUXILIARY INPUT, 3.5MM/ICA CONNECTION, WALL PLATE	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) LA	2.4.
(TS) (TS)	AUDIO OUTPUT, WALL PLATE (T = XLR MALE CONNECTION, TS = 1/4 TS CONNECTION)	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) LA	2.4.
(MA)	MICROPHONE INPUT WITH AUXILIARY INPUT, WALL PLATE	D1	(1) 3/4"	RECEPTACLE HEIGHT	(1) MA	2.4.
(CA)	MICROPHONE, CEILING ARRAY, INPUT, OR STANDARD (# = INDICATES TYPE)	D1	(1) 3/4"	CEILING	(1) MA	2.4.
(MB)	TABLE TOP BOUNDARY MICROPHONE		(1) 1/2"	ON TABLE/MILLWORK	(1) MA	2.3.9.
(MW)	WALL MOUNTED MICROPHONE	D1	(1) 3/4"	SWITCH HEIGHT	(1) MA	2.4.
(MT)	MICROPHONE AND AUXILIARY INPUT, WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D2	(1) 1"	RECEPTACLE HEIGHT	(1) UTP	2.4.11.
(MT)	DUAL MICROPHONE INPUT/OUTPUT WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D1	(1) 1"	RECEPTACLE HEIGHT	(1) UTP	2.4.11.
(MD)	DUAL MICROPHONE INPUT/OUTPUT WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D2	(1) 1"	RECEPTACLE HEIGHT	(1) UTP	2.4.11.
(MD)	FOUR MICROPHONE INPUT WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D2	(1) 1"	RECEPTACLE HEIGHT	(1) UTP	2.4.11.
(BT)	BLUETOOTH AND AUXILIARY INPUT, WALL PLATE, UTP TRANSMITTER AUDIO ENCODER	D2	(1) 1"	SWITCH HEIGHT	(1) UTP	2.4.11.
(BT)	BLUETOOTH, WALL PLATE, AUDIO EXTENDER	D1	(1) 1"	SWITCH HEIGHT	(1) UTP	2.4.11.
(V)	VGA INPUT, WALL PLATE	D1	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) VO	2.4.
(H)	HDMI INPUT, WALL PLATE	D1	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) HD	2.4.
(H)	HDMI AND VGA INPUT, WALL PLATE	D2	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) HD	2.4.
(EV)	AV/EP ENCODER, WALL PLATE (# IDENTIFIES UNIQUE PLATES)	SCH	(1) 1"	(1) UTP	(1) UTP	2.4.11.
(EV)	AV/EP DECODER, WALL PLATE (# IDENTIFIES UNIQUE PLATES)	SCH	(1) 1"	(1) UTP	(1) UTP	2.4.11.
(H)	HDBaseT, HDMI INPUT TRANSMITTER, WALL PLATE	D1	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2.4.11.
(H)	HDBaseT, HDMI AND VGA TRANSMITTER, WALL PLATE	D2	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2.4.11.
(H)	HDBaseT, HDMI, DISPLAY PORT AND/OR VGA TRANSMITTER BOX, SURFACE MOUNTED			IN MILLWORK/UNDER TABLE	(1) STP	2.4.11.
(H)	HDBaseT CATEGORY INPUT, WALL PLATE	D1	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2.4.11.
(H)	HDBaseT, HDMI RECEIVER, WALL PLATE	D1	(1) 1"	AS NOTED	(1) STP	2.4.11.
(H)	USB INPUT, WALL PLATE, UTP EXTENDER, (# = IDENTIFIES UNIQUE PLATE)	D1	(1) 1"	RECEPTACLE HEIGHT	(1) STP	2.4.11.
(H) (TS)	HDBaseT DEVICE, SURFACE MOUNTED T = TRANSMITTER, R = RECEIVER		(1) 1"	IN MILLWORK/UNDER TABLE	(1) STP	2.4.8.11.
(H)	DUAL HDMI TRANSMITTER, WALL PLATE	D2	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) STP	2.4.11.
(H)	HDMI AND USB TRANSMITTER, WALL PLATE	D1	(1) 1 1/4"	RECEPTACLE HEIGHT	(1) STP	2.4.11.
(H)	2-WAY INTERCOMMUNICATION PUSH/BUTTON STATION	D1	(1) 3/4"	SWITCH HEIGHT	AS NOTED	2.7.10.
(H)	CLASSROOM SOUND AMPLIFICATION SYSTEM	D2	(1) 1 1/4"	IN MILLWORK/AS NOTED		2.3.
(H)	CREWCOM HEADSET INPUT, WALL PLATE	D1	(1) 3/4"	SWITCH HEIGHT	(1) MA	2.4.
(H)	CREWCOM WALL STATION, WALL PLATE	D3	(1) 3/4"	SWITCH HEIGHT	(1) MA	2.4.
(H) (R) (R)	INFRARED SENSOR, WALL/CEILING	D1	(1) 3/4"	AS NOTED	(1) UTP OR (1) BUS	2.6.11.
(H) (ALS) (ALS)	ASSISTIVE LISTENING SYSTEM ANTENNA/EMITTER, WALL/CEILING	D1	(1) 1"	AS NOTED	AS NOTED	2.6.
(H) (AT) (AT)	AV ANTENNA, WALL/CEILING	D1	(1) 1"	AS NOTED	(1) AT	2.6.
(V)	VOLUME CONTROL	D1	(1) 1"	SWITCH HEIGHT	(1) S16	2.4.
(V)	VOLUME CONTROL WITH SOURCE SELECTOR	D2	(1) 1"	SWITCH HEIGHT	(1) S16	2.4.8.11.
(TP)	TOUCH PANEL, TABLE TOP		(1) 1"	AS NOTED	(1) UTP	
(TP)	TOUCH PANEL, WALL MOUNTED, REFER TO SPECIFICATIONS FOR TOUCH PANEL TYPE AND ORIENTATION	SCH	(1) 1"	SWITCH HEIGHT	(1) UTP	2.4.5.11.
(TP)	KEYPAD, WALL MOUNTED, REFER TO SPECIFICATIONS FOR KEYPAD TYPE	SCH	(1) 1"	SWITCH HEIGHT	(1) BUS or (1) UTP	2.4.10.
(TP)	ROOM SCHEDULING TOUCHPANEL	SCH	(1) 1"	SWITCH HEIGHT	(1) STP	
(TP)	TABLE/FURNITURE BOX, NUMBER REFERS TO TYPE REFER TO SPECIFICATIONS/DIAGRAMS FOR REQUIREMENTS			IN MILLWORK	SEE DIAGRAMS.	
(L)	LOUDSPEAKER, WALL MOUNTED	CW	(1) 3/4"	AS NOTED	(1) S16	2.4.
(L)	LOUDSPEAKER, ARRAY, CABINET, CLUSTER	AO	(1) 3/4"	AS NOTED	(1) S12	2.4.
(L)	LOUDSPEAKER, CEILING RECESSED OR PENDANT	CW	(1) 3/4"	CEILING	(1) S16	2.7.
(L)	SOUND BAR, REFER TO SPECIFICATIONS FOR TYPE	D1	(1) 1"	UNDER DISPLAY OR AS NOTED		1.5.
(L)	DISPLAY, REFER TO SPECIFICATIONS FOR DISPLAY TYPE AND SIZE	PER SCH	(1) 1 1/4" (1) 1"	AS NOTED	AS NOTED	4.13.
(L) (SD) (SD)	PROJECTION SCREEN, REFER TO SPECIFICATIONS FOR SCREEN TYPE AND SIZE	(D2) AO	(1) 3/4"	CEILING OR WALL	(1) UTP	2.7.
(P)	PROJECTOR	D2	(1) 1 1/4"	CEILING OR AS NOTED	AS NOTED	2.6.
(P)	AV CAMERA	CW	(1) 1"	AS NOTED	AS NOTED	1.
(P)	EQUIPMENT CABINET/RACK	CW	SCH	AS NOTED		
(P)	EQUIPMENT CEILING RACK	CW	SCH	AS NOTED		
(P)	EQUIPMENT 2-POST CABINET/RACK	CW	SCH	AS NOTED		
(P) (P) (P)	PASS THROUGH PLATE, # = NUMBER OF GANGS	DW	(1) 1-1/2"	AS NOTED		2.
(J)	JUNCTION BOX, ABOVE ACCESSIBLE CEILING	AO	AS NOTED	AS NOTED		
(J)	CUSTOM JUNCTION BOX, REFER TO SCHEDULE AND DIAGRAM FOR EQUIPMENT, JUNCTION BOX AND CONDUIT	SCH	SCH	AS NOTED	AS NOTED	
(F)	FLOOR BOX, REFER TO ELECTRICAL DOCUMENTS FOR MAKE/MODEL, REFER TO DIAGRAMS FOR AV DEVICE LAYOUT			AS NOTED	AS NOTED	
(P)	POKE THRU, REFER TO ELECTRICAL DOCUMENTS FOR MAKE/MODEL, REFER TO DIAGRAMS FOR AV DEVICE LAYOUT		(1) 1 1/2"	AS NOTED		
-----	CONDUIT RUN CONCEALED IN WALL OR CEILING			AS NOTED		
-----	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			AS NOTED		
-----	CONDUIT UP			AS NOTED		
-----	CONDUIT DOWN			AS NOTED		
-----	CONDUIT STUB LOCATION			AS NOTED		
-----	CONDUIT/CIRCUIT CONTINUATION			AS NOTED		
(#) (H)	DEVICE/EQUIPMENT TYPE CALLOUT					
(#) (H)	ELEVATION VIEW TAG (# = VIEW NUMBER, ## = SHEET NUMBER)					
(H)	DIAGRAM CALLOUT TAG					

LOW VOLTAGE SCOPE OF WORK

- NOTES:...
- RESPONSIBILITY MATRIX DELINEATES THE SCOPE OF WORK BETWEEN THE OWNER AND THE CONTRACTORS. CONTRACTORS ARE RESPONSIBLE TO COORDINATE BETWEEN EACH OTHER FOR THE FULL SCOPE OF WORK THEY ARE RESPONSIBLE FOR.
 - ADDITIONAL NOTES MAY BE PRESENT WITHIN THE CONTRACT DOCUMENTS INDICATING SPECIFIC EQUIPMENT PROVIDED BY OTHERS OR REQUIRE INSTALLATION BY SPECIFIC DIVISIONS.
 - INSTALLER PROVIDING THE SYSTEM CABLING SHALL PROVIDE THE CABLING, TERMINATION AND CERTIFICATION FOR A COMPLETE SYSTEM INSTALLATION, UNLESS OTHERWISE SPECIFICALLY NOTED WITHIN THE CONTRACT DOCUMENTS.
 - INSTALLER TO VERIFY WITH CONTRACT DOCUMENTS FOR THE CONNECTION TYPE (MALE OR FEMALE) REQUIRED FOR EACH SYSTEM.
 - REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

DESCRIPTION	FURNISHED BY	INSTALLED BY
GENERAL		
STRUCTURAL BACKING AND SUPPORT FOR WALL MOUNTED EQUIPMENT	GC	GC
EQUIPMENT POWER (120V, 208V, 240V, 277V, 480V)	EC	EC
ROUGH OR FINISHED TRIM, CASEWORK, MILLWORK, EQUIPMENT RACK PEDESTALS, STRUCTURAL WORK FOR SPECIAL CONSTRUCTION	GC	GC
SUPPORT CABLES, PRE-CONSTRUCTION KITS, TILE BRIDGES AND/OR BACK BOXES FOR CEILING MOUNTED DEVICES	EC	EC
TEST	TS	TS
AUDIOVISUAL BOXES/DEVICES		
ROUGH-IN, CONDUIT W/ PULL STRING, JUNCTION BOXES, FLOOR BOXES, FLAT PANEL DISPLAY BACK BOXES, ETC.	AV	AV
CATEGORY CABLE / FIBER OPTIC CABLE FROM DEVICE LOCATION TO (TRIMDFYER)(DF) TERMINATED IN PATCH PANEL	AV	AV
FURNITURE BOXES WITH AUDIOVISUAL CONNECTIONS AND/OR CABLES	AV	AV
FURNITURE BOX TABLE CUTTING	GC	GC
CONDUIT/WIRE		
ROUGH-IN, CONDUIT W/ PULL STRING, JUNCTION BOXES, FLOOR BOXES, FLAT PANEL DISPLAY BACK BOXES, ETC.	EC	EC
CATEGORY CABLE / FIBER OPTIC CABLE FROM DEVICE LOCATION TO (TRIMDFYER)(DF) TERMINATED IN PATCH PANEL	LVC	LVC
COAXIAL CABLE	LVC	LVC
CATEGORY CABLING FROM DEVICE TO DEVICE, NOT TERMINATED IN PATCH PANELS WITHIN THE ER(MD)(F)(TRID)(F)	AV	AV
CONDUIT/WIRE EQUIPMENT		
EQUIPMENT RACKS NOT WITHIN THE ER(MD)(F)(TRID)(F) FOR SYSTEM COMPONENTS	AV	AV
LIGHTING CONTROL SYSTEM INTERFACE DEVICE(S) AND CABLING TO AV CONTROL SYSTEM, TERMINATION INTO AV SYSTEM CONTROLS BY AV INSTALLER	EC	EC
MOTORIZED SHADE CONTROL SYSTEM INTERFACE DEVICE(S) AND CABLING TO AV CONTROL SYSTEM, TERMINATION INTO AV SYSTEM	AV	AV
INSTRUCTORS LECTERNS/CONSOLES WITH INTEGRATED AUDIOVISUAL SYSTEMS COMPONENTS	AV	AV
NETWORK SWITCHES WITHIN THE ER(MD)(F)(TRID)(F) FOR AUDIOVISUAL NETWORK, AUDIO, CONTROL AND VIDEO	OWNER	OWNER
PROJECTOR/MONITORS		
VIDEO PROJECTOR	OWNER	AV
PROJECTOR SCREEN MANUAL AND/OR MOTORIZED HOUSING	AV	AV
FLAT PANEL MONITOR MOUNTS	AV	AV
FLAT PANEL MONITORS	AV	AV
VIDEO PROJECTOR MOUNTS	AV	AV
PROJECTOR SCREEN, FIBER FRAME (SIMILAR TO WHITEBOARD)	GC	GC
PROJECTOR SCREEN MANUAL AND/OR MOTORIZED ROLLER	AV	AV
INTERACTIVE FLAT PANEL MONITORS AND MOUNTS	OWNER	OWNER
ACCESS CONTROL SYSTEM		
CONDUIT/WIRE		
ROUGH-IN, CONDUIT W/ PULL STRING, JUNCTION BOXES, FLOOR BOXES, ETC.	EC	EC
CATEGORY CABLE / FIBER OPTIC CABLE	LVC	LVC
TERMINATING AND TESTING THE CATEGORY AND FIBER OPTIC CABLING	LVC	LVC
ACCESS CONTROL CABLING	AC	AC
TERMINATING AND TESTING THE ACCESS CONTROL CABLING	AC	AC
ACCESS CONTROL SYSTEM EQUIPMENT		
ACCESS CONTROL SERVER	OWNER	OWNER
ACCESS CONTROL OPERATING SOFTWARE	AC	AC
ACCESS CONTROL SYSTEM HEAD-END CONTROL PANEL(S), AND POWER SUPPLY(S)	AC	AC
INDIVIDUAL ACCESS CONTROL DOOR CONTROLLERS (IF APPLICABLE)	AC	AC
RECHARGEABLE BACKUP BATTERIES	AC	AC
ACCESS CONTROL END DEVICES (E.G., CREDENTIAL CARD READERS, DOOR POSITION CONTACTS, REQUEST TO EXIT MOTIONS, PUSH TO EXIT BUTTONS, DESK DOOR RELEASE BUTTONS, OVERSPANIC BUTTONS, SCHOOL LOCKDOWN CREDENTIAL CARD READER OR BUTTON, ETC.)	AC	AC
ELECTRIFIED LOCKING DOOR HARDWARE EQUIPMENT (E.G., ELECTRIC STRIKES, ELECTRIFIED LOCKSETS, ELECTRIFIED EXIT RIM DEVICES (CRASH BARS), ELECTROMAGNETIC LOCKS, ELECTRIC POWER TRANSFER/ELECTRIC WINDGE, ETC.)	DC	DC
POWER SUPPLIES FOR ELECTRIFIED LOCKING DOOR HARDWARE EQUIPMENT	AC	AC
CREDENTIALS (E.G. CARDS, FOBs, TAGS, MOBILE CREDENTIALS)	AC	AC
SHADE PRINTER FOR CREDENTIAL CARDS	AC	AC
IP 2-WAY AUDIO VIDEO INTERCOM SYSTEM (E.G., EXTERIOR DOOR STATIONS, ANSWERING BASE STATIONS, SDXC MEMORY CARDS, IP LICENSES, ETC.)	AC	AC
EXTERIOR PEDESTALS AND ENCLOSURES	AC	AC
NETWORK EQUIPMENT SPECIFICALLY FOR THE ACCESS CONTROL SYSTEM (E.G., NETWORK SWITCHES, PSE SWITCHES, ROUTERS/PATCH PANELS, EQUIPMENT RACKS, ETC.)	OWNER	OWNER
OPERATING BASE STATION, WORK STATION EQUIPMENT (COMPUTER SERVER, MONITOR, KEYBOARD, MOUSE)	OWNER	AC
(UPS) UNINTERRUPTIBLE POWER SUPPLY, SURGE PROTECTORS, POWER SURGE & SUPPRESSION EQUIPMENT	OWNER	OWNER
INTRUSION DETECTION SYSTEM		
CONDUIT/WIRE		
ROUGH-IN, CONDUIT W/ PULL STRING, JUNCTION BOXES, FLOOR BOXES, ETC.	EC	EC
CATEGORY AND FIBER OPTIC CABLING	LVC	LVC
TERMINATING AND TESTING THE CATEGORY AND FIBER OPTIC CABLING	LVC	LVC
INTRUSION LOW VOLTAGE CABLING	IC	IC
TERMINATING AND TESTING THE INTRUSION LOW VOLTAGE CABLING	IC	IC
INTRUSION DETECTION SYSTEM EQUIPMENT		
INTRUSION DETECTION (ANIMSDARM) KEYPADS	IC	IC
END DEVICES (E.G., DOOR & WINDOW POSITION CONTACTS, GARAGE/ROOF HATCH POSITION CONTACTS, MOTION DETECTORS, GLASS BREAK DETECTORS, SMOKE DETECTORS, HEAT DETECTORS, TEMPERATURE SENSOR, HUMIDITY SENSORS, WATER LEAK SENSOR, ETC.)	IC	IC
INTRUSION DETECTION WIRELESS EQUIPMENT (E.G., TRANSMITTERS, RECEIVERS, REPEATERS, ETC.)	IC	IC
CELLULAR BACKUP COMMUNICATOR	IC	IC
RECHARGEABLE BACKUP BATTERIES	IC	IC
INTERIOR AND/OR EXTERIOR AUDIBLE SIRENS AND/OR STROBES	IC	IC
IP CAMERA & VIDEO SURVEILLANCE SYSTEM		
CONDUIT/WIRE		
ROUGH-IN, CONDUIT W/ PULL STRING, JUNCTION BOXES, FLOOR BOXES, ETC.	EC	EC
CATEGORY CABLE / FIBER OPTIC CABLE	LVC	LVC
TERMINATING AND TESTING THE CATEGORY AND FIBER OPTIC CABLING	LVC	LVC
IP CAMERA & VIDEO SURVEILLANCE SYSTEM EQUIPMENT		
(NVS) NETWORK VIDEO RECORDER SERVER	SC	SC

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PROJECTOR SCREEN SCHEDULE																
TYPE	IMAGE SIZE (W) IN INCHES					BLACK DROP LENGTH	BOTTOM OF IMAGE AFF	CASE DIMENSIONS (Cx) IN INCHES			WEIGHT	OPERATION	PROJECTION ORIENTATION	CONTROL TYPE	MOUNTING TYPE	NOTES
	DIAGONAL	HEIGHT	WIDTH	ASPECT RATIO	LENGTH			WIDTH	DEPTH							
SC1	113	59.78"	95.13"16"	16:10	8"	48	6"	6"	6"	60 LBS	MANUAL	FRONT	MANUAL	WALL MOUNTED		

AV CUSTOM BACK BOX SCHEDULE									
TYPE	MANUFACTURER	MODEL	BOX DIMENSIONS (C) IN INCHES			CONDUITS	MOUNTING TYPE	MOUNTING HEIGHT	NOTES
			HEIGHT	WIDTH	DEPTH				
C02	HUBBELL	HBL260	4.3/16"	2.1/8"	2.1/8"	(1) 1/2"	RECESSED	HORIZONTAL	2-GANG CUSTOM JUNCTION BOX, REFER TO SCHEDULE AND DIAGRAM FOR EQUIPMENT, JUNCTION BOX AND CONDUIT
CAL	HUBBELL	HBL263	4.3/16"	2.1/8"	2.1/8"	(2) 1"	RECESSED	HORIZONTAL	3-GANG

AV EQUIPMENT RACK SCHEDULE							
TYPE	DIMENSIONS				JUNCTION BOX	MOUNTING TYPE	NOTES
	HEIGHT	WIDTH	DEPTH	R/U's			
R1	22"	19.1/4"	18"	12	C2	FLOOR	WALL MOUNTED EQUIPMENT RACK, HEIGHT INDICATED IS FROM BOTTOM OF RACK.

AV LOUDSPEAKER SCHEDULE								
TYPE	DIMENSIONS				SHAPE	WEIGHT	INSTALLATION	NOTES
	WIDTH (H)	WIDTH (V)	DIAMETER	DEPTH				
IC1	12"	24"	12"	3"	SQUARE	4.7 LBS	CEILING RECESSED	CLASSROOM LOUDSPEAKER
W1	9.3/8"	18.1/2"		10"	SQUARE	28.2 LBS	SURFACE	

CONDUIT SCHEDULE LEGEND:

CONDUIT SIZE: REFER TO CHART FOR SIZES: SYMBOL

NUMBER OF CONDUITS: a = TO ACCESSIBLE CEILING e = CONDUIT BACK TO EQUIPMENT

CONDUIT SIZE CHART: A = 3/4" CONDUIT B = 1" CONDUIT C = 1-1/4" CONDUIT D = 1-1/2" CONDUIT E = 2" CONDUIT F = 3" CONDUIT G = 4" CONDUIT

ROUGH-IN JUNCTION BOX LEGEND:

X#X (B2E)

EXTENSION RING (IF REQUIRED)

NUMBER OF GANGS IN MUDRING (0 = COVERPLATE)

JUNCTION BOX SIZE REFER TO CHART FOR SIZES.

JUNCTION BOX SIZE: A = 4" SQ. 2-1/8" DEEP JUNCTION BOX B = 4-11/16" SQ. JUNCTION BOX C = CUSTOM JUNCTION BOX, SEE SCHEDULE FOR SIZE D = HUBBELL - HBL260/HBL985

LOUDSPEAKER LEGEND:

SYSTEM LOUDSPEAKER IDENTIFIER

LOUDSPEAKER TYPE

LOUDSPEAKER IDENTIFIER

XX#

Z-#X#

AMPLIFIER CHANNEL

AMPLIFIER IDENTIFIER

LEVEL INDICATOR (MAY NOT BE USED)

ZONE

LOUDSPEAKER TYPES: A = ARRAY, CABINET, CLUSTER C = CEILING RECESSED P = PENDANT MOUNT R = WALL RECESSED S = CEILING SURFACE MOUNTED W = WALL SURFACE MOUNTED

SYSTEM LOUDSPEAKER IDENTIFIER: BLANK = SYSTEM SPECIFIC I = INTERCOM SYSTEM SM = SOUND MASKING SYSTEM

FLAT PANEL MONITOR LEGEND:

MOUNTING HEIGHT FROM BOTTOM OF DISPLAY

FLAT PANEL SPECIAL NOTES

MONITOR TYPE

MONITOR TYPE AND/OR DISPLAY TECHNOLOGY

MONITOR TYPES: D = TYPICAL COMMERCIAL GRADE L = DIRECT VIEW LED PRODUCT R = RESIDENTIAL GRADE S = INTERACTIVE COMMERCIAL GRADE V = VIDEO WALL (SLIM BEZEL)

FLAT PANEL SPECIAL NOTES: CLG = CEILING (POLE) MOUNTED D = DIGITAL SIGNAGE P = PORTRAIT ORIENTATION R = RECESSED

SIGNAL FLOW LEGEND:

EQUIPMENT NAME/TYPE AND IDENTIFICATION

CONNECTION #/TYPE

CABLING REQUIREMENT, NUMBER FIRST INDICATES QUANTITY FOLLOWED BY TYPE IN DIAGRAM SYSTEM CONNECTION TAG

OUT OF DIAGRAM SYSTEM CONNECTION TAG

CONNECTION SPECIFIC NOTES

OUTPUTS

PROTOCOL ID: A = AUDIO C = CONTROL H = HD/HEMP N = UTPI/NETWORK P = POWER V = VIDEO U = USB

UNIQUE ID CONNECTION POINT

DIAGRAM CONTINUATION REFERENCE

NOTES: * = REMOTE POWER

INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - APRIL 14, 2025



DATE REVISION

PROJECT NUMBER 250273

AUDIOVISUAL SCHEDULES

RESOLUT

FFKR ARCHITECTS

730 Pacific Avenue - Salt Lake City, Utah 84104
O 801.521.6186 FFKR.COM

Project #: 250236

181 E 5600 S, Murray, UT 84107 | (801) 530-3148 | info@resolutgroup.com | resolutgroup.com

BAND - AV REFLECTED CEILING PLAN
SCALE = 1/4" = 1'-0"

2 BAND - AUDIOVISUAL PLAN
SCALE = 1/4" = 1'-0"

AUDIOVISUAL GENERAL NOTES

1. THIS SHEET SET SHOWS WORK AND MATERIALS BY DIVISION 26 AND DIVISION 27. SEE SPECIFICATIONS AND DRAWING NOTES FOR RESPONSIBILITY FOR EACH ITEM.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIRED PROVISIONS WITH THE PROJECT AV SYSTEMS INTEGRATOR PRIOR TO INSTALLATION OF THESE PROVISIONS. WHERE CONDUIT AND JUNCTION BOX PROVISIONS ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS, NOTIFY THE AV CONSULTANT IN WRITING OF THE REQUIREMENTS, WHERE MINOR MODIFICATIONS TO PROVISIONS ARE REQUIRED, THEY SHALL BE MADE AT NO ADDITIONAL COST AS A MATTER OF JOINT COORDINATION.
3. BIDDERS SHALL THOROUGHLY ACQUAINT AND EXAMINE THE EXISTING PROJECT CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, INCLUDING THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. BIDDERS SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONDITIONS AS WELL AS WITH ALL PERTINENT DETAILS OF THE COST OF CARRYING OUT THE WORK. THEY WILL CONTRACT TO PERFORM AND BRING ANY DISCREPANCIES OR OMISSIONS FOUND IN THE DRAWINGS TO THE AV CONSULTANT'S ATTENTION BEFORE SUBMITTING BIDS.
4. AV SYSTEMS INTEGRATOR SHALL PROVIDE A FULLY FUNCTIONING SYSTEM IN EVERY RESPECT, ANY DISCREPANCIES IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.
5. THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT, AND ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK, SHALL BE FURNISHED BY THE PROJECT AV SYSTEMS INTEGRATOR.
6. NO CHANGES TO THE DESIGN SHALL BE MADE WITHOUT THE PROJECT AV CONSULTANT'S WRITTEN CONSENT.
7. WHERE APPLICABLE, AV SYSTEMS INTEGRATOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES.
8. REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED IN EQUIPMENT LIST.
9. COORDINATE EXACT SPEAKER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.
10. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL SPEAKERS AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS, BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND AV CONSULTANT PRIOR TO RELEASE.
11. INSTALL/SUSPEND ALL AUDIOVISUAL SYSTEMS EQUIPMENT IN COMPLIANCE WITH SEISMIC CODES. MANUFACTURERS WHEN INSTALLED, AND INDUSTRY BEST PRACTICES. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
12. ALL TWISTED-PAIR (UTP, FUTP, UTP, SFTP) CATEGORY TYPE CABLEING SHALL BE TERMINATED BY CERTIFIED DATA TECHNICIANS. TEST PER SPECIFICATIONS REQUIREMENTS AND PROVIDE DATA TO AV CONSULTANT.
13. ALL Hdbsnet SIGNAL CABLE, TERMINATIONS, AND TERMINATION HARDWARE SHALL COMPLY WITH TIA/EIA WIRING CONFIGURATION T568 B. ALL Hdbsnet SIGNAL CABLEING SHALL BE SHIELDED/FOUL (SF/UTP) CATEGORY TYPE CABLE.
14. CONDUCT A RADIO FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTING RF OPERATIONAL FREQUENCIES. AV SYSTEMS INTEGRATOR MUST ENSURE INTERFERENCE FREE OPERATION OF ALL RF DEVICES. AV SYSTEMS INTEGRATOR SHALL COORDINATE AUDIT RESULTS WITH MANUFACTURER PRIOR TO PURCHASING RF EQUIPMENT.
15. PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. CURRENT RACK MOUNT KITS WHEN NOT AVAILABLE FROM THE EQUIPMENT MANUFACTURER.
16. PROVIDE SURGE PROTECTION DEVICE (SPD) IN ALL AV EQUIPMENT RACKS.
17. ALL AV EQUIPMENT RACKS SHALL BE GROUNDED AND BONDED TO MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC), IEC 100-5-2, ANSI/S11-20-807A.
18. ALL AV EQUIPMENT SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS.
19. PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT.
20. THE CONTRACTOR SHALL TAKE FAULTS ACTION RESPONSIBILITY FOR LACK OF COORDINATION WITH AV CONSULTANT AS ADDRESSED IN THE DOCUMENTS.
21. UNLESS SPECIFICALLY SPECIFIED OR NOTED PROVIDE COMMERCIAL QUALITY EQUIPMENT, MATERIALS AND COMPONENTS DESIGNATED FOR CONTINUOUS USE. CONSUMER QUALITY COMPONENTS ARE NOT ACCEPTABLE.

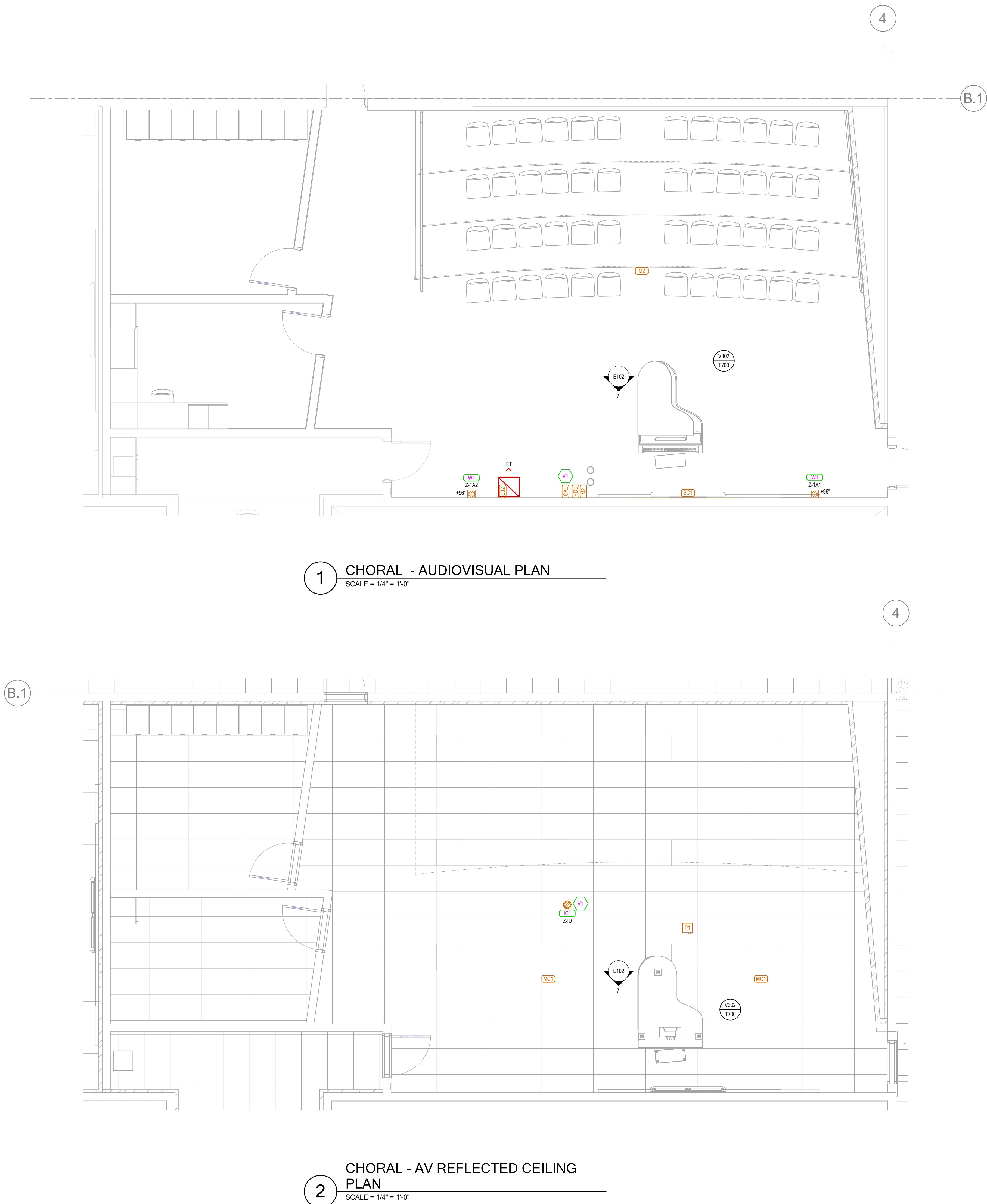
SHEET KEYNOTES

V1 PROVIDE NEW INTERCOM CLASSROOM MODULE, LOUDSPEAKER(S), AND CALL SWITCH. CONNECT TO SCHOOL INTERCOM NETWORK AS REQUIRED

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A B C D E

1 2 3 4 5 6



1 CHORAL - AUDIOVISUAL PLAN
SCALE = 1/4" = 1'-0"

2 CHORAL - AV REFLECTED CEILING
PLAN
SCALE = 1/4" = 1'-0"

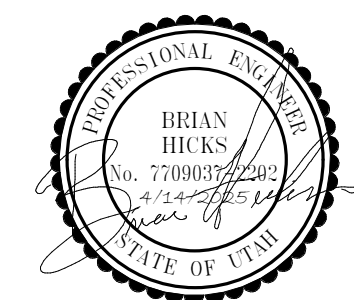
AUDIOVISUAL GENERAL NOTES

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- ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIRED PROVISIONS WITH THE PROJECT AV SYSTEMS INTEGRATOR PRIOR TO INSTALLATION OF AV SYSTEM EQUIPMENT. WHERE CONDUIT AND JUNCTION BOX PROVISIONS ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS, NOTIFY THE AV CONSULTANT IN WRITING OF THE REQUIREMENTS. WHERE MINOR MODIFICATIONS TO PROVISIONS ARE REQUIRED, THEY SHALL BE MADE AT NO ADDITIONAL COST AS A MATTER OF JOB COORDINATION.
- BIDDERS SHALL THOROUGHLY ACQUAINT AND EXAMINE THE EXISTING PROJECT CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, INCLUDING THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. BIDDERS SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK. THEY WILL CONTRACT TO PERFORM AND BRING ANY DISCREPANCIES OR OMISSIONS FOUND IN THE DRAWINGS TO THE AV CONSULTANT'S ATTENTION BEFORE SUBMITTING BID.
- AV SYSTEMS INTEGRATOR SHALL PROVIDE A FULLY FUNCTIONING SYSTEM IN EVERY RESPECT. ANY DISCREPANCIES IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.
- THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT, AND ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK, SHALL BE FURNISHED BY THE PROJECT AV SYSTEMS INTEGRATOR.
- NO CHANGES TO THE DESIGN SHALL BE MADE WITHOUT THE PROJECT AV CONSULTANT'S WRITTEN CONSENT.
- WHERE APPLICABLE, AV SYSTEMS INTEGRATOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES.
- REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED IN EQUIPMENT LIST.
- COORDINATE EXACT SPEAKER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT AV CONSULTANT PRIOR TO BIDDING.
- CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL SPEAKERS AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND AV CONSULTANT PRIOR TO RELEASE.
- INSTALL/SUSPEND ALL AUDIOVISUAL SYSTEMS EQUIPMENT IN COMPLIANCE WITH SEISMIC CODES, MANUFACTURER'S WRITTEN INSTRUCTIONS, AND INDUSTRY BEST PRACTICES. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
- ALL TWISTED-PAIR (U/UTP, P/UTP, U/FTP, S/FTP) CATEGORY TYPE CABLES SHALL BE TERMINATED BY CERTIFIED DATA TECHNICIANS. TEST PER SPECIFICATIONS REQUIREMENTS AND PROVIDE DATA TO AV CONSULTANT.
- ALL HDbaseT SIGNAL CABLES, TERMINATIONS, AND TERMINATION HARDWARE SHALL COMPLY WITH TIA/EIA WIRING CONFIGURATION T568 B. ALL HDbaseT SIGNAL CABLES SHALL BE SHIELDED/FOIL (SF/UTP) CATEGORY TYPE CABLE.
- CONDUCT A RADIO FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTING RF OPERATIONAL FREQUENCIES. AV SYSTEMS INTEGRATOR TO ENSURE INTERFERENCE FREE OPERATION OF ALL RF DEVICES. AV SYSTEMS INTEGRATOR SHALL COORDINATE AUDIT RESULTS WITH MANUFACTURER PRIOR TO PURCHASING RF EQUIPMENT.
- PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. PROVIDE CUSTOM RACK MOUNT KITS WHEN NOT AVAILABLE FROM THE EQUIPMENT MANUFACTURER.
- PROVIDE SURGE PROTECTION DEVICE (SPD) IN ALL AV EQUIPMENT RACKS.
- ALL AV EQUIPMENT RACKS SHALL BE GROUNDED AND BONDED TO MEET OR EXCEED THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC), IEC 1000-5-2 ANSI/J-STD-607-A.
- ALL AV EQUIPMENT SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS.
- PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT.
- THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR LACK OF COORDINATION WITH AV CONSULTANT AS ADDRESSED IN THE DOCUMENTS.
- UNLESS SPECIFICALLY SPECIFIED OR NOTED PROVIDE COMMERCIAL QUALITY EQUIPMENT, MATERIALS AND COMPONENTS DESIGNED FOR CONTINUOUS USE. CONSUMER QUALITY COMPONENTS ARE NOT ACCEPTABLE.

SHEET KEYNOTES

V1 PROVIDE NEW INTERCOM CLASSROOM MODULE, LOUDSPEAKER(S), AND CALL SWITCH. CONNECT TO SCHOOL INTERCOM NETWORK AS REQUIRED.

INDIAN HILLS BAND & CHORAL REMODEL
1180 EAST SANDERS ROAD, SANDY, UT 84094
CANYONS SCHOOL DISTRICT
CONSTRUCTION DOCUMENTS - APRIL 14, 2025



DATE REVISION

PROJECT NUMBER 250273

CHORAL -
AUDIOVISUAL
PLANS

4/11/2025 5:21:31 PM

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DIAGRAM V302 INDIAN HILLS MS BAND / CHORAL AV ONE-LINE NTS

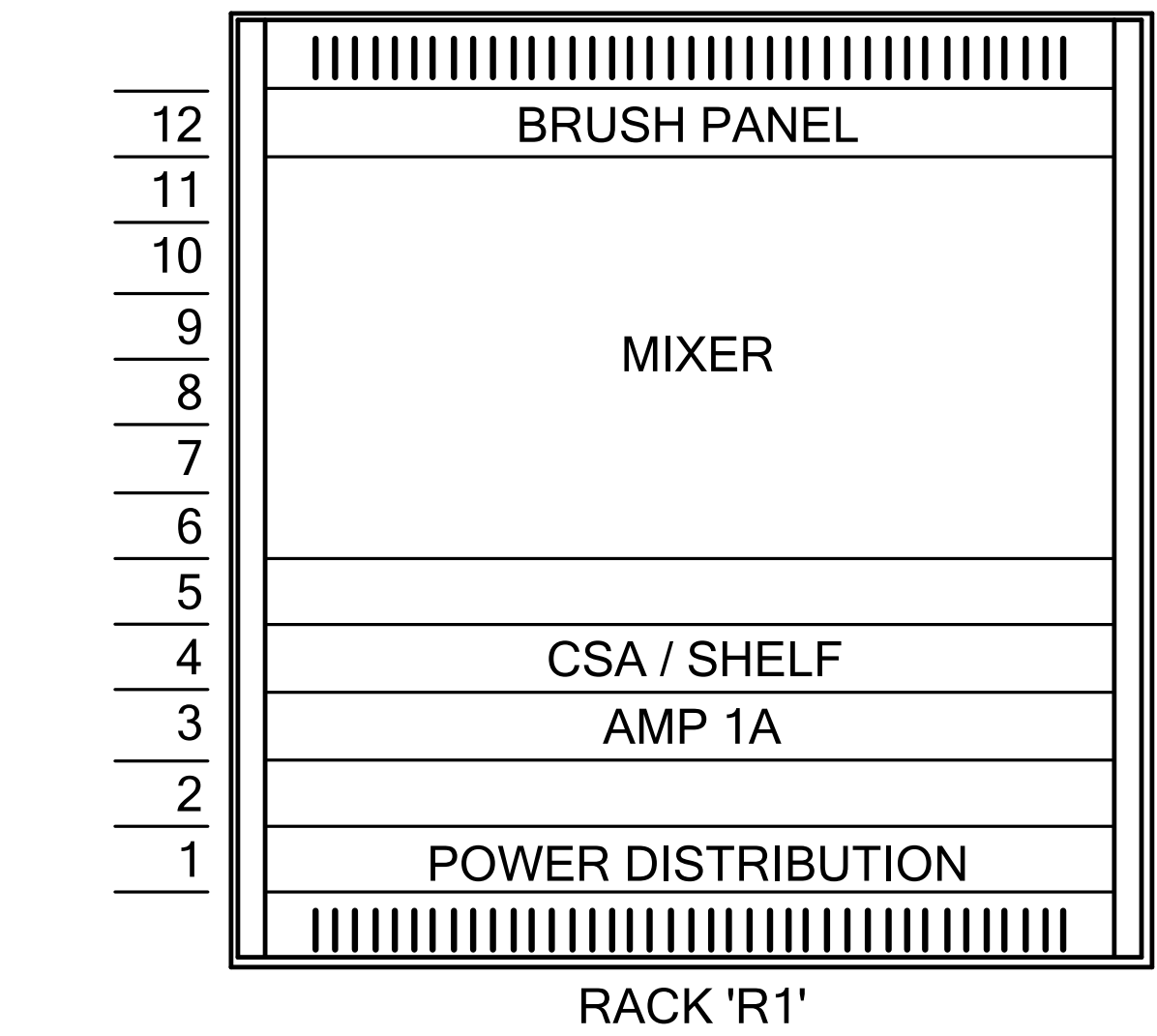
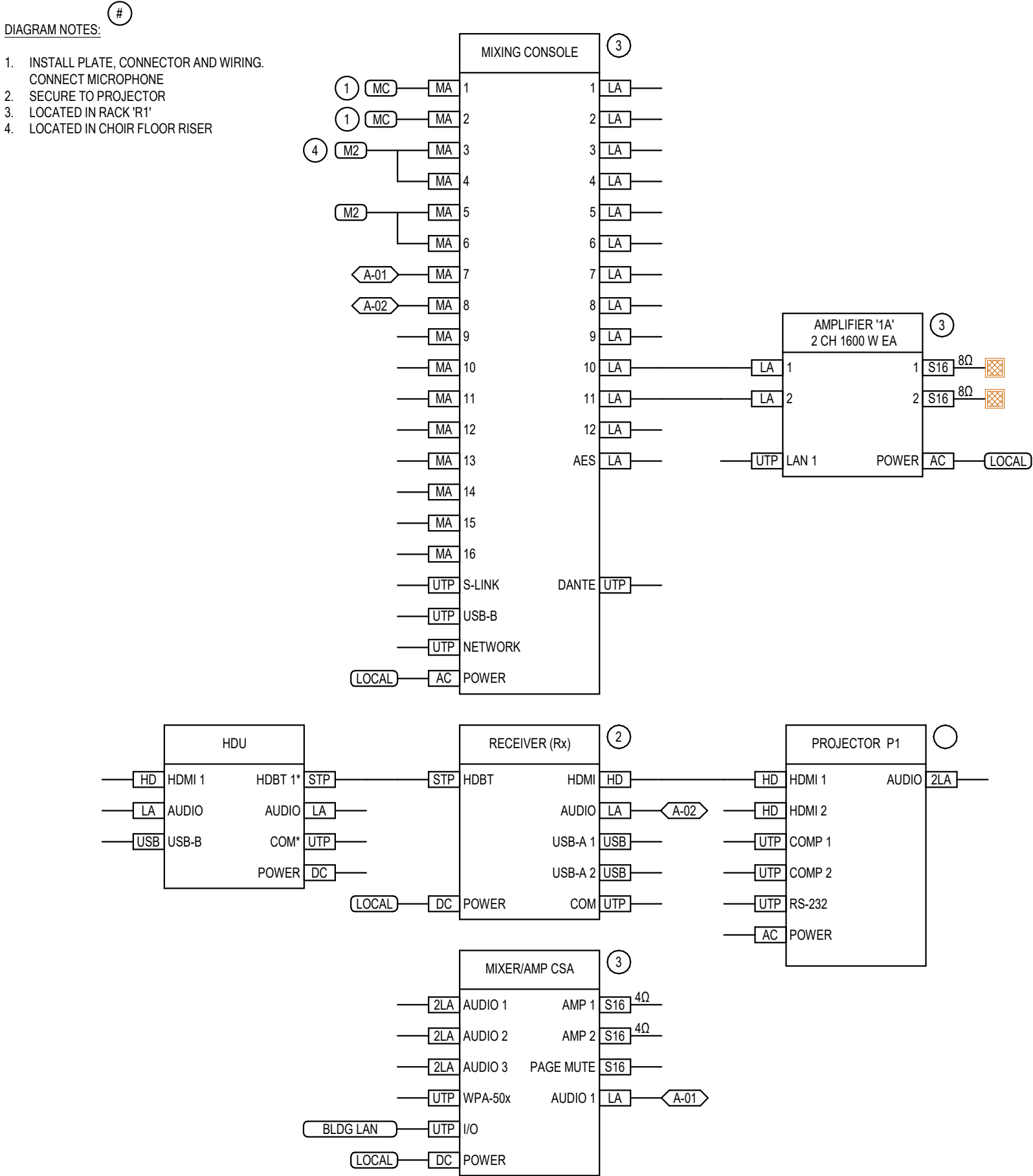
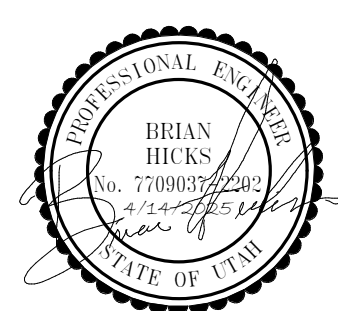


DIAGRAM 1 RACK R1 NTS

INDIAN HILLS BAND & CHORAL REMODEL
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AUDIOVISUAL
DIAGRAM

T701

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