

NORTH STRATFIELD ELEMENTARY SCHOOL

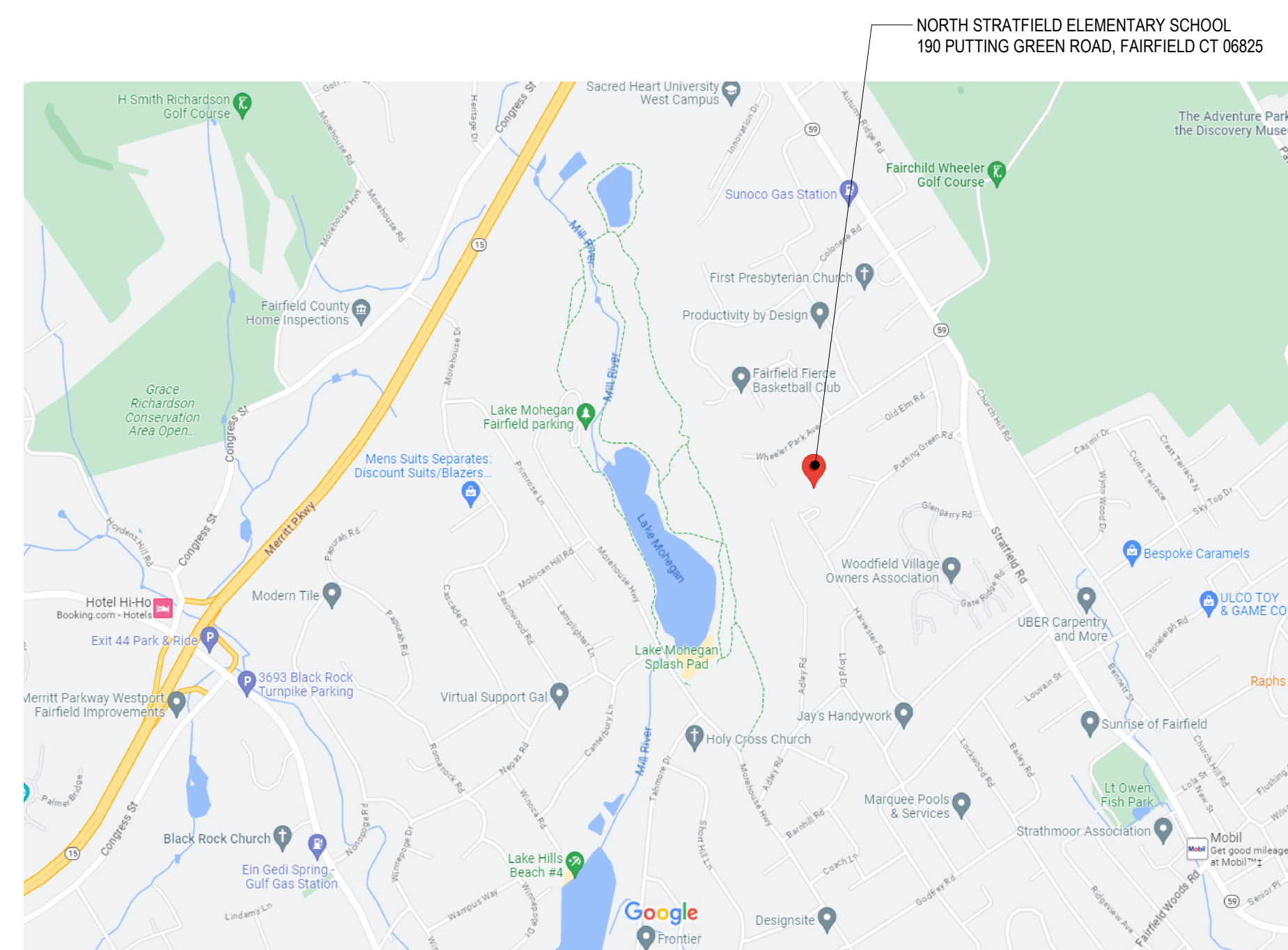
190 PUTTING GREEN RD,
FAIRFIELD, CT 06825

95% CONSTRUCTION DOCUMENTS

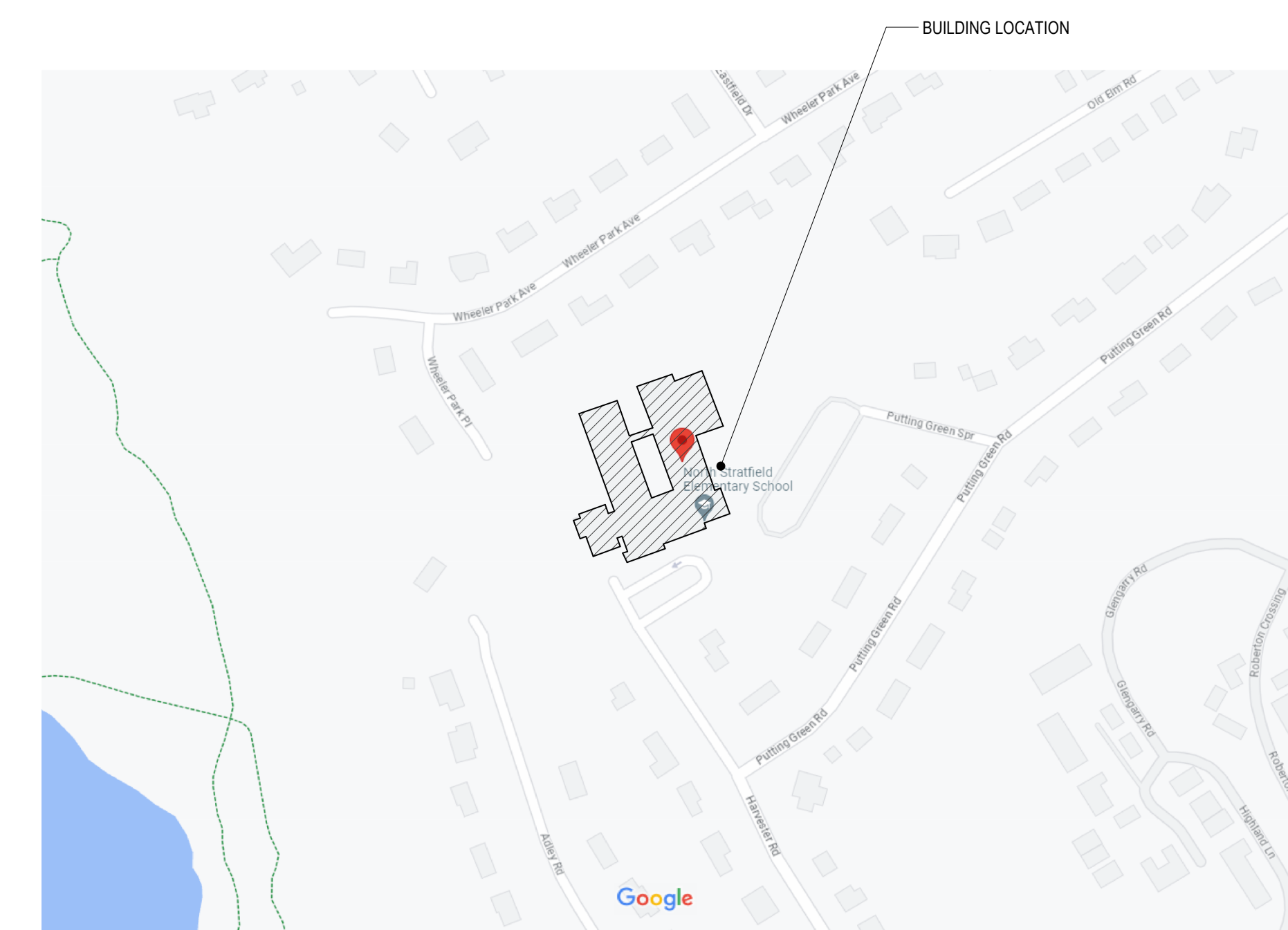
Owner

09/29/2023

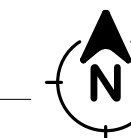
BL PROJECT No.: 2300053



LOCATION MAP



SITE KEY PLAN



PREPARED FOR:

CONSULTANTS:

Issues / Revisions

No. Date Description

No.	Date	Description

Seals:

**95%
CONSTRUCTION
DOCUMENTS**

Title:

COVER

Sheet No.

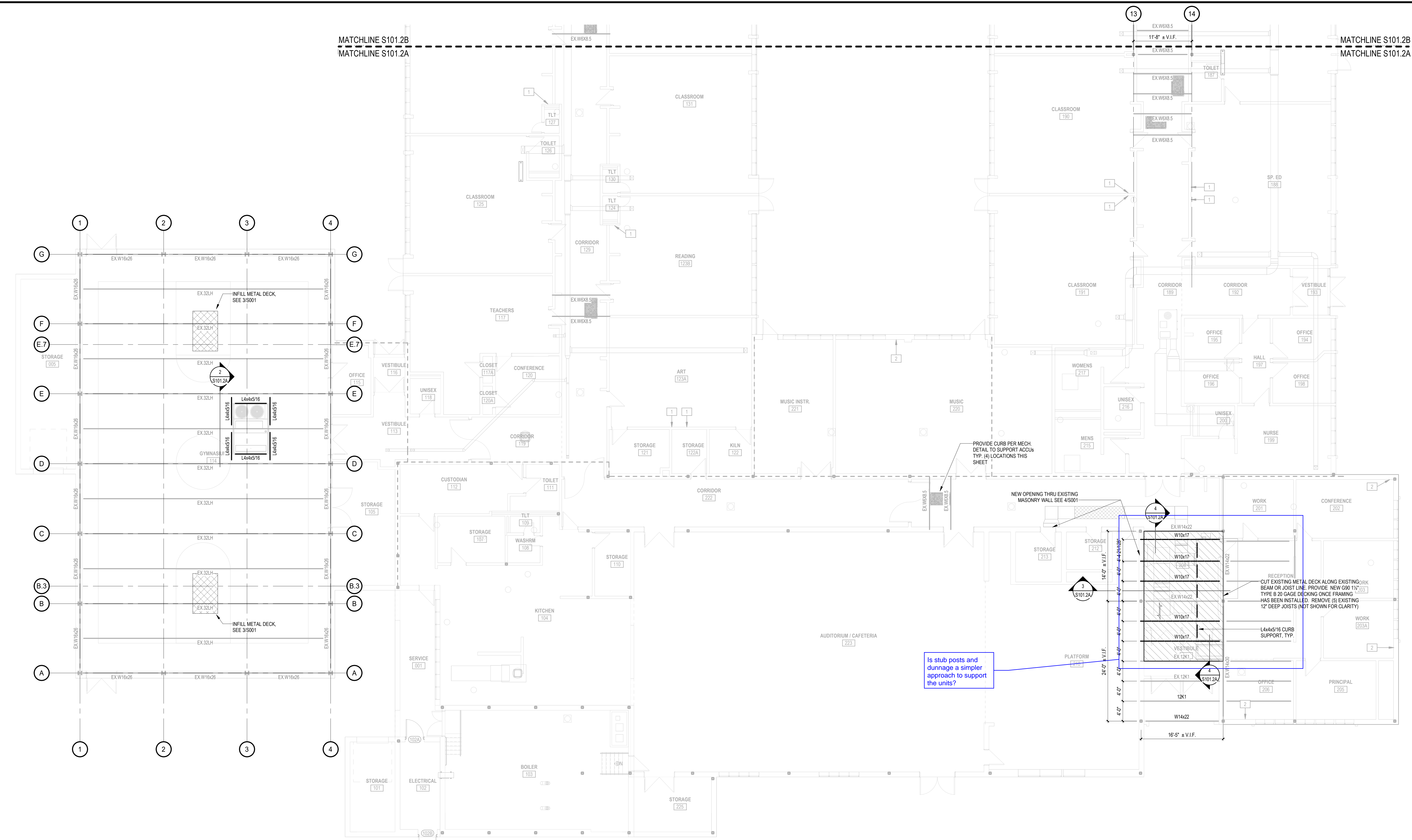
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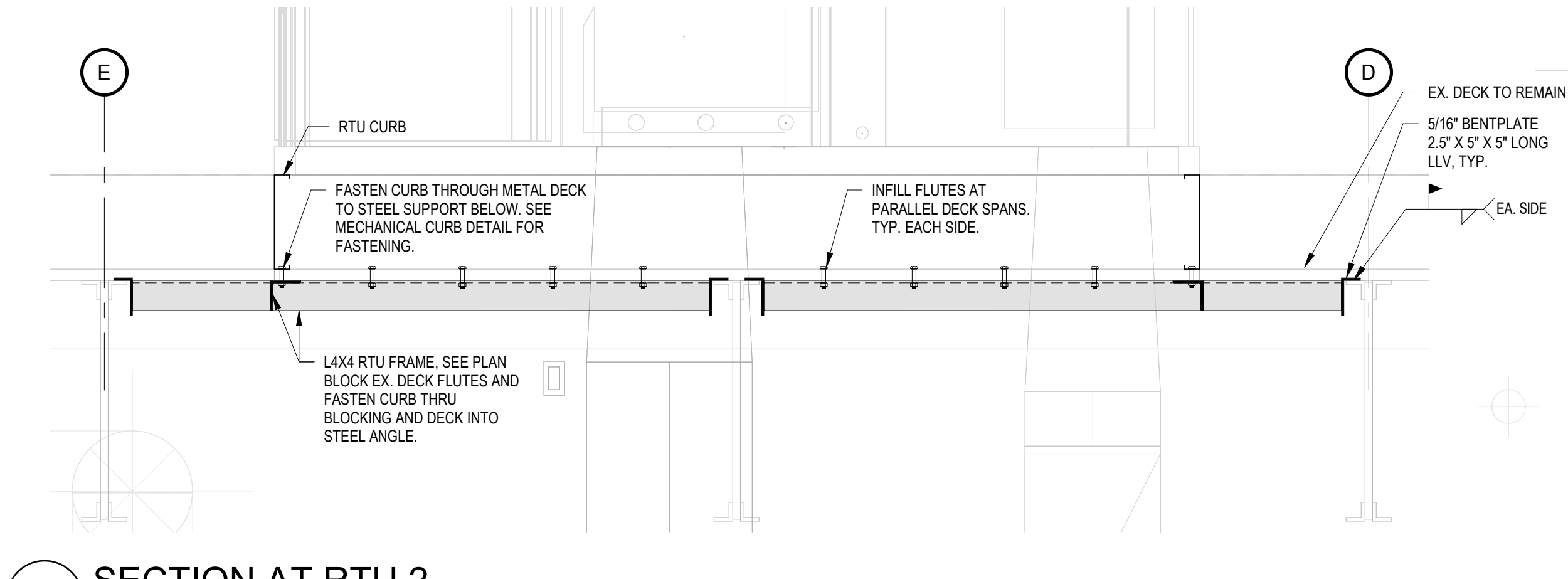
NO	DATE	DESCRIPTION

Designed: BS
Drawn: BS
Reviewed: RD
Project No.: 230053
Date: 09/29/2023
Issued for:
95% CONSTRUCTION DOCUMENTS

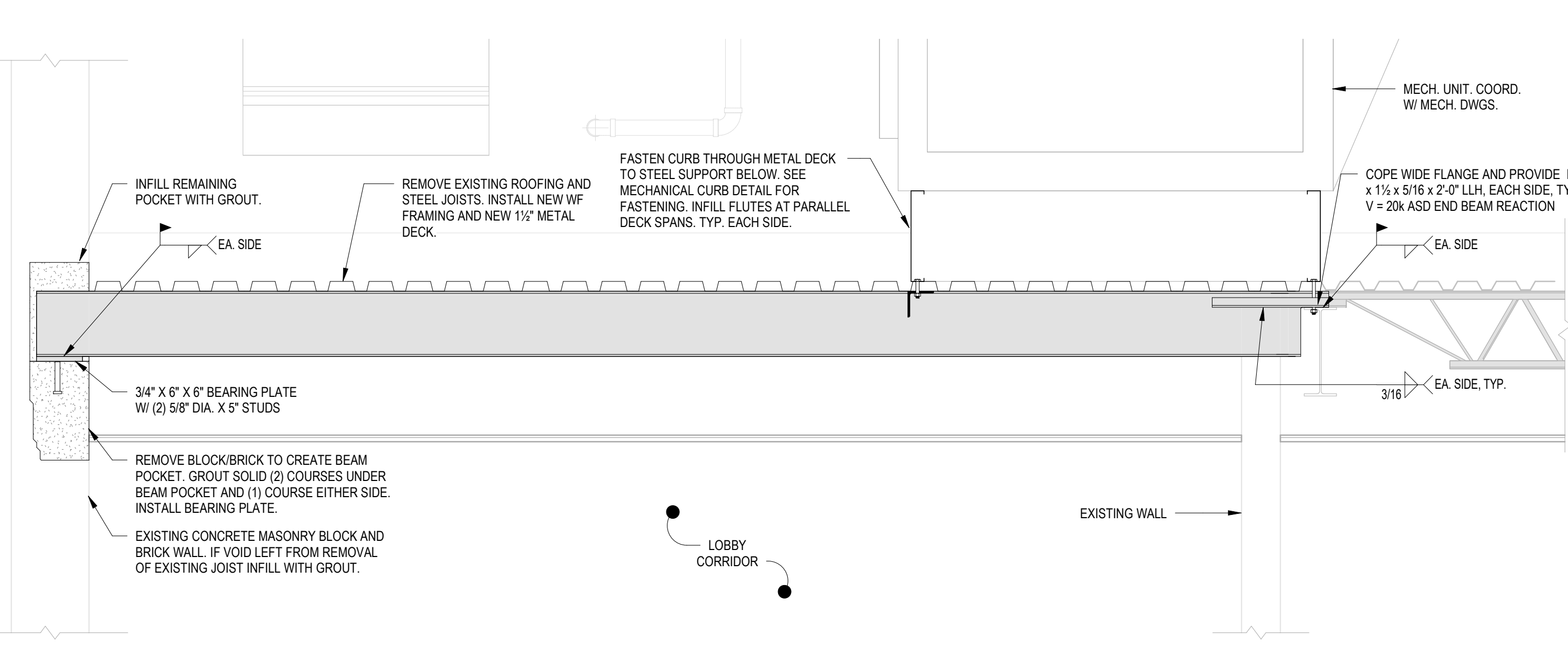
Sheet No. S101.2A



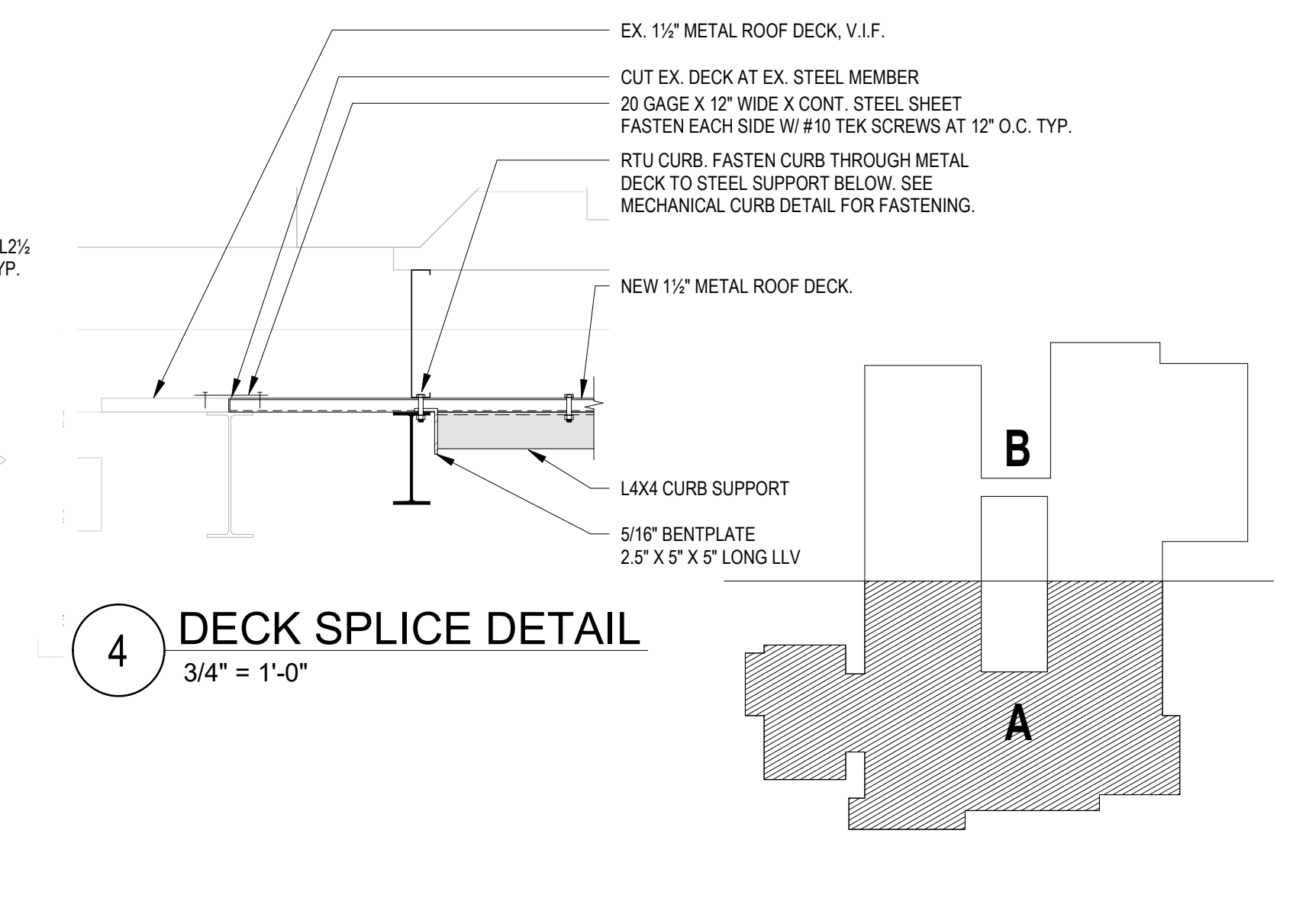
1 PARTIAL ROOF FRAMING PLAN A - RTU 2 AND RTU 1
1/8" = 1'-0"



2 SECTION AT RTU 2
3/4" = 1'-0"



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

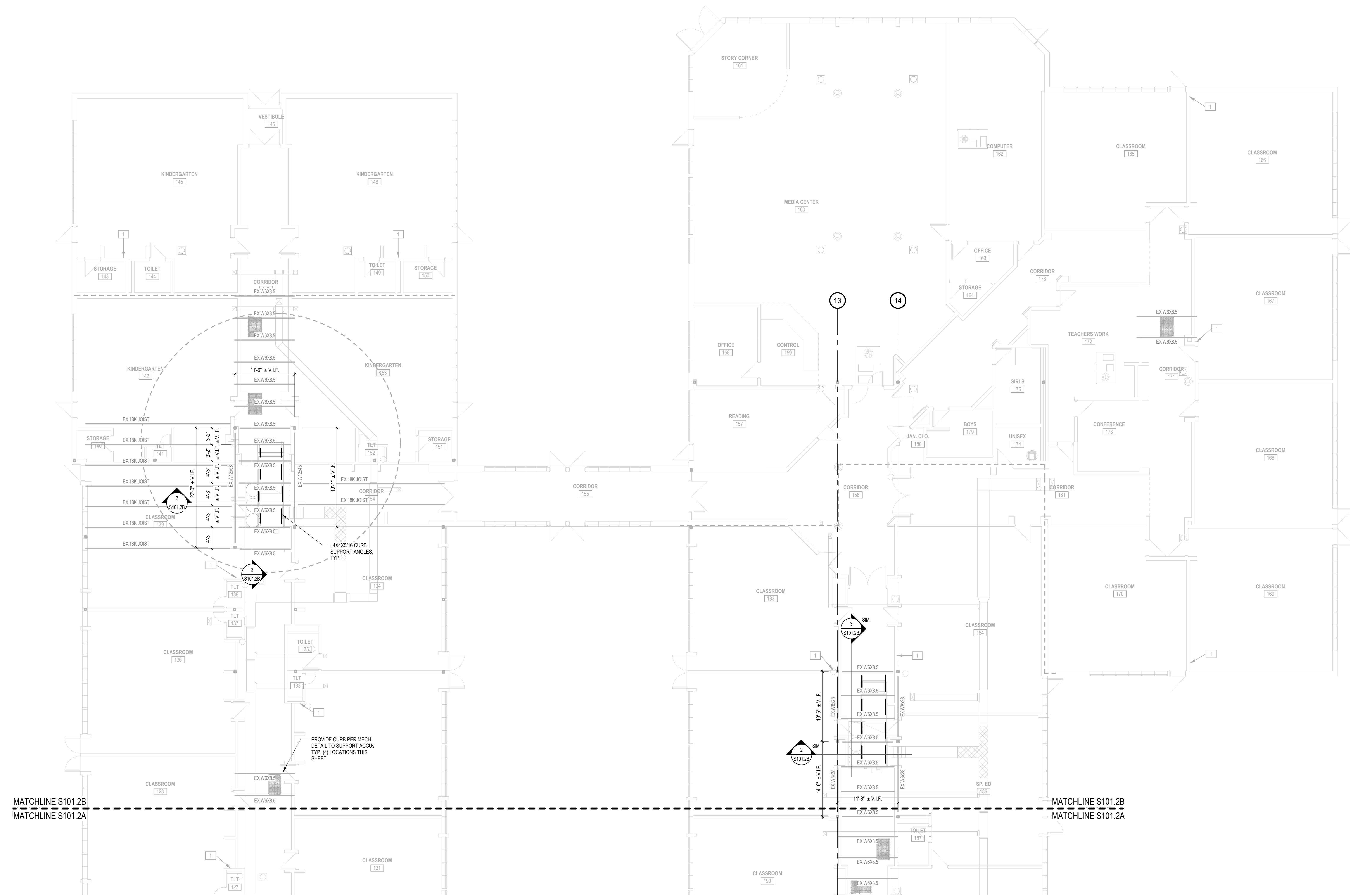


4 DECK SPLICE DETAIL
3/4" = 1'-0"

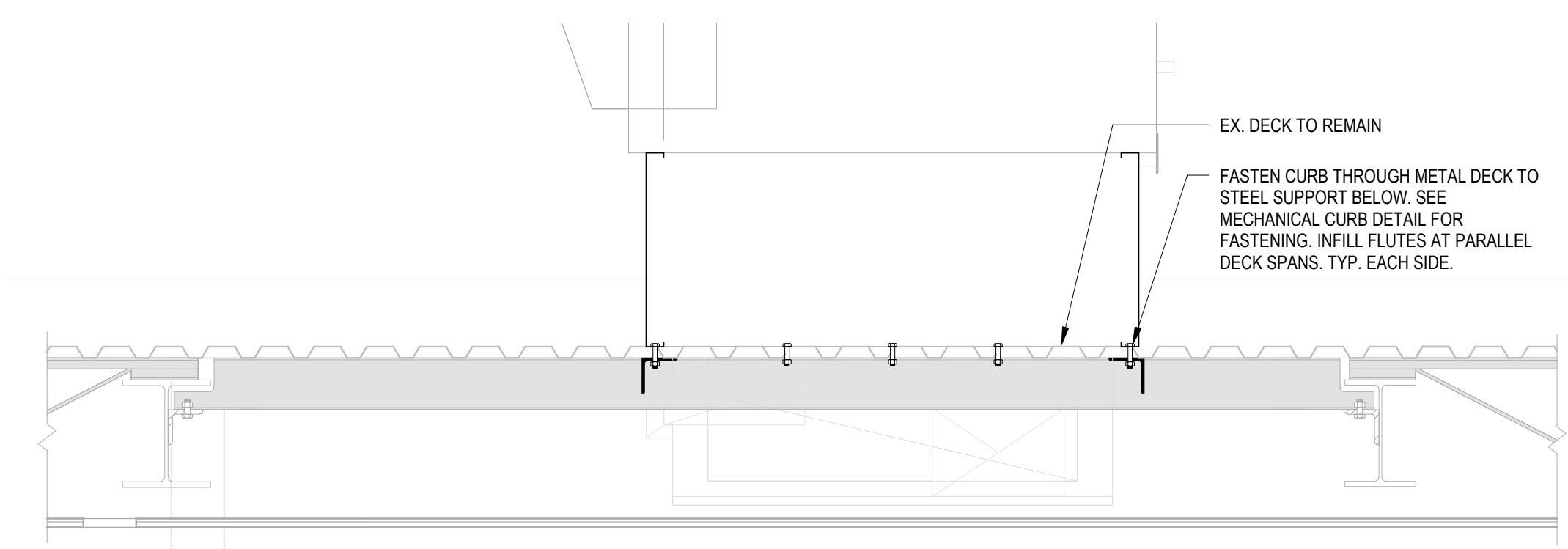


KEY PLAN

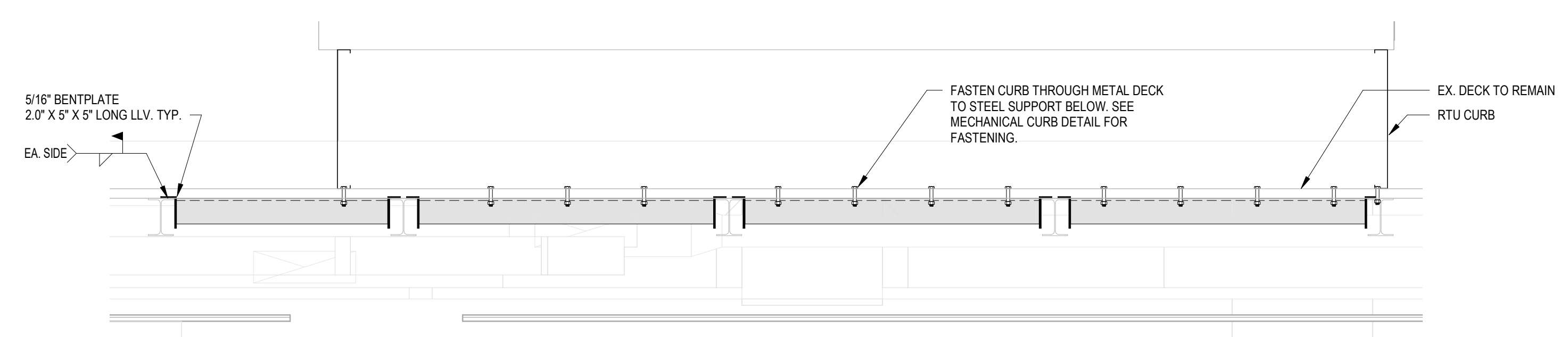
9/29/2023 12:49:56 PM C:\CUBS\2300230053\North Stratfield Elementary School\DWG-ARCH\MODEL\2300053-North Stratfield ES-STRUCT-R22-Central.rvt



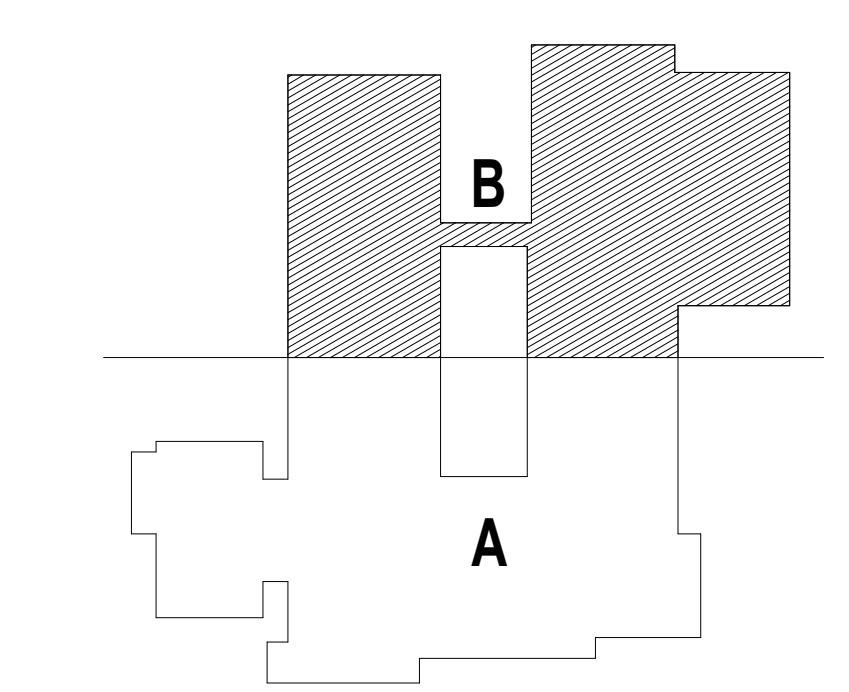
1 PARTIAL ROOF FRAMING PLAN B - DOAS 1 AND DOAS 2
1/8" = 1'-0"



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



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



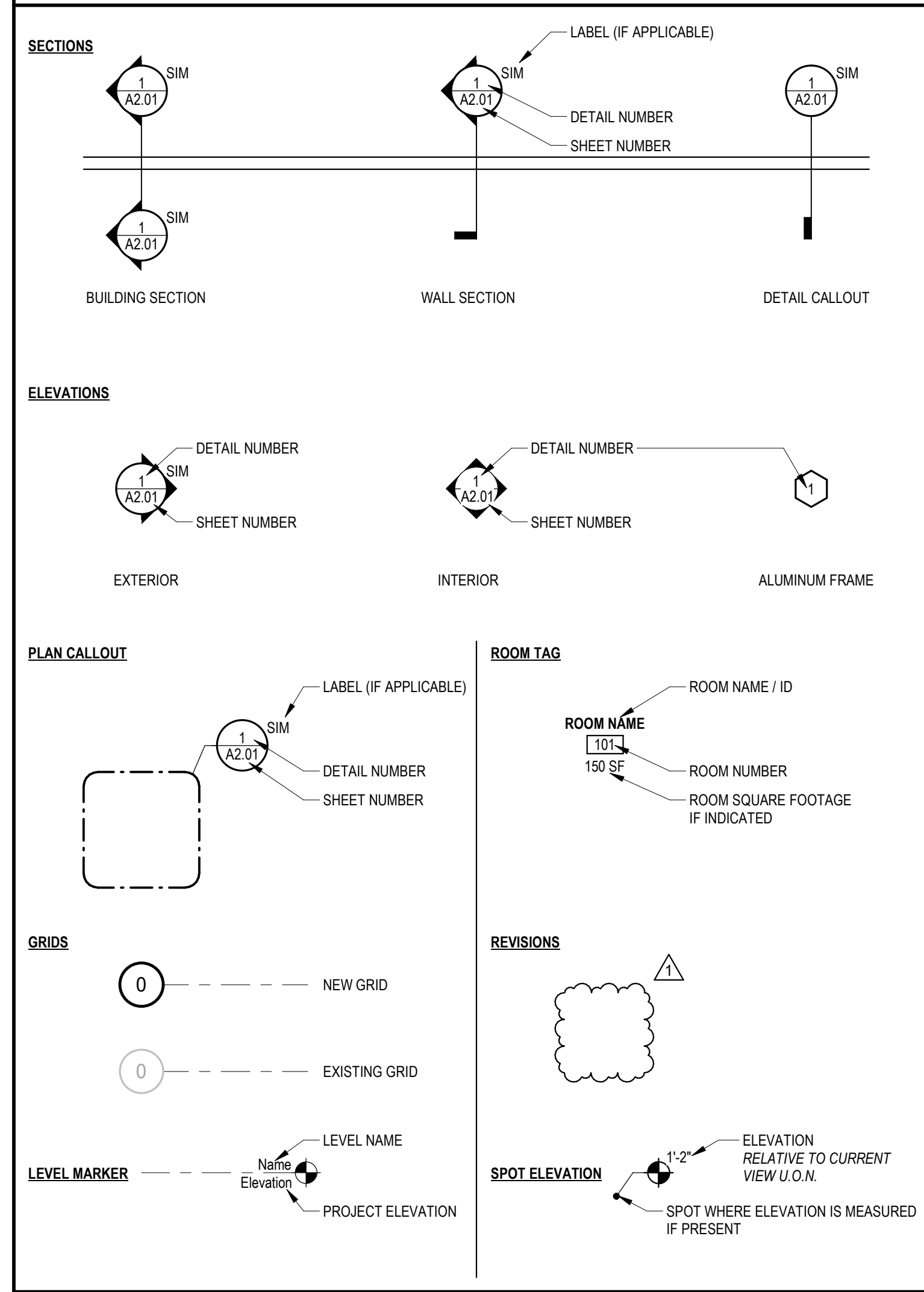
KEY PLAN

LINTEL SCHEDULE - EXISTING CONSTRUCTION

- 1. PROVIDE LINTELS, WHETHER INDICATED OR NOT OVER ALL NEW OPENINGS, OR EXISTING OPENINGS THAT HAVE BEEN MODIFIED, IN EXISTING MASONRY WALLS AS REQUIRED BY STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- 2. COMBINE VARIOUS WYTHES OF MASONRY AS REQUIRED TO SUIT PROJECT.
- 3. ALL CONDITIONS MAY NOT OCCUR.
- 4. ALL LINTELS ARE TO HAVE 8" MINIMUM BEARING AT EACH END.
- 5. ALL EXTERIOR LINTELS ARE TO BE GALVANIZED.
- 6. ALL EXTERIOR ANGLES TO BE LOCATED 1/2" BACK FROM FACE OF FINISHED WALL.
- 7. SEE STRUCTURAL DRAWINGS FOR ALL OPENINGS OVER 8'-4"

MASONRY OPENING	4" MASONRY	6" MASONRY	8" MASONRY	10" MASONRY	12" MASONRY
UP TO 5'-0"	1L - 3 1/2" X 3 1/2" X 5/16"	WT 7 X 11	2L - 4" X 3 1/2" X 5/16"	2L - 4" X 4" X 5/16"	2L - 5" X 5" X 5/16"
5'-0" TO 6'-0"	1L - 6" X 3 1/2" X 5/16"	WT 7 X 11	2L - 5" X 3 1/2" X 5/16"	2L - 4" X 4" X 3/8"	2L - 5" X 5" X 3/8"
6'-0" TO 7'-4"	1L - 6" X 3 1/2" X 5/16"	WT 7 X 11	2L - 5" X 3 1/2" X 5/16"	2L - 4" X 4" X 3/8"	2L - 5" X 5" X 3/8"
7'-4" TO 8'-4"	1L - 6" X 3 1/2" X 3/8"	WT 7 X 11	2L - 6" X 3 1/2" X 5/16"	2L - 4" X 4" X 3/8"	2L - 5" X 5" X 3/8"

STANDARD GRAPHIC LEGEND



MASTER ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
A.F.F.	ABOVE FINISH FLOOR
AWP	ACOUSTIC WALL PANEL
AC	ACOUSTICAL
ACT	ACOUSTICAL TILE
ADDN	ADDITION
AC	AIR CONDITIONING
A.H.U.	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AB	ANCHOR BOLTS
ANCH	ANCHOR ANCHORAGE
A	AND
L	ANGLE
ANGD	ANGLED
APPR	APPROVED
ARCH	ARCHITECT ARCHITECTURAL
ASH	ASBESTOS
ASPH	ASPHALT
ASSY	ASSEMBLY
ASST	ASSISTANT
@	AT
AVN	AT VARIANCE WITH AUTO.
IN. OR"	INCH OR INCHES
BM	BEAM
BRG	BEARING
BET	BETWEEN
BEV.	BEVEL BEVELED
BT	BITUMINOUS
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BOTT	BOTTOM
B.O.	BOTTOM OF
B.F.	BRACE FRAME
B.E.J.	BRICK EXPANSION JOINT
BLDG	BUILDING
B.U.R.	BUILT-UP ROOFING
CAB.	CABINET
C.U.H.	CABINET UNIT HEATER
CAP.	CAPACITY
G.G.	CEILING
C.G.H.T.	CEILING HEIGHT
CEM.	CEMENT
CTR	CENTER
CS	CONCRETE
CPB	CERAMIC TILE
CR	CHANNEL
CLOSE	CLOSE
C.F.M.F.	COLD FORMED METAL FRAME
COL.	COLUMN
CONC.	CONCRETE
CONF.	CONFERENCE
CONT.	CONTINUOUS
CONTR	CONTRACTOR
C.J.	CONTRACTOR CONSTRUCTION JOINT
COOR.	CORRIDOR
CNL	COULD NOT LOCATE
CNS	COURSE COURSES
D.H.	DOUBLE HUNG
DAMPFO	DAMP PROOFING
DEG.	DEGREE
DEMO.	DEMOLITION
DEPT.	DEPARTMENT
DET.	DETAIL
DIA.	DIAMETER
DM	DIMENSION
DIST.	DISTANCE
DR	DOOR
DBL	DOUBLE
DN	DOWN
D.S.	DOWNPOUT
DWS	DRAINING
D.F.	DRINKING FOUNTAIN
EA.	EACH
EWC	ELECTRIC WATER COOLER
ELEC.	ELECTRIC ELECTRICAL
ELEV.	ELEVATION
EL	ELEVATOR
EMERG.	EMERGENCY
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.P.D.M.	ETHYLENE PROPYLENE DIENE MONOMER
E.F.	EXHAUST FAN
EXIST.	EXISTING
FFB	EXISTING FIRE BLANKET
EFE	EXISTING FIRE EXTINGUISHER
E.R.D.	EXISTING ROOF DRAIN
E.T.R.	EXISTING TO REMAIN
EVS	EXISTING VENT STACK
EXP.	EXPANSION
E.J.	EXPANSION JOINT
EXT.	EXTERIOR
EL.	EXTERIOR INSULATION
FT	FEET, FOOT
F.R.G.P.	FIBER REINFORCED GYPSUM PANEL
F.S.	FINISH SYSTEM
FIN	FINISH FINISHED
FB	FIRE BLANKET
F.E.	FIRE EXTINGUISHER
F.T.R.	FIRE RETARDANT TREATED FIREPROOFING
FLXIT.	FLUX
FLR	FLOOR
F.D.	FLOOR DRAIN
FLR. FIN.	FLOOR FINISH
FTG	FOOTING
FN	FOUNDATION
FURN.	FURNISH FURNISHED
FURR.	FURRED, FURRING
GALV.	GALVANIZED
GA.	GALVE
G.B.	GRAB BAR
GYP.	GYPSUM WALLBOARD
H.C.	HANDICAPPED
H.R.	HANDRAIL
HGT	HEIGHT
H.P.	HIGH POINT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.B.	HOSE BIBB
IN. OR"	INCH OR INCHES
INCL.	INCLUDE INCLUDING
INFO.	INFORMATION
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
K.P.	KICK PLATE
LAB.	LABORATORY
LAV.	LAVATORY
L.C.C.	LEAD COATED COPPER
LTC.	LIGHTING
L.P.	LOW POINT
MACH.	MACHINE
MAINT.	MAINTENANCE
MFR.	MANUFACTURER
MRB.	MARKER BOARD
MW.	MASONRY
M.O.	MASONRY OPENING
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
MEZZ.	MEZZANINE
MIN.	MINIMUM
M.W.F.	MIRROR WITH FRAME
MISC.	MISCELLANEOUS
N	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO. OR#	NUMBER
OFF.	OFFICE
OK AS IS	OK AS IS
O.C.	ON CENTER
O.H.	OPPOSITE HAND
O.D.	OUTSIDE DIAMETER
O.R.D.	OVERFLOW ROOF DRAIN
O.T.D.	
PAINTED	
PBR.	PAPER
P.D.	PAPER TOWEL DISPENSER
PASS.	PASSAGE
PFRP.	PERFECTICULAR
PLAS.	PLASTER
PL. LAM.	PLASTER LAMINATE
PL.	PLATE
PLBG.	PLUMBING
PLYWD.	PLYWOOD
P.V.C.	POLYVINYL CHLORIDE
PRECAST	
PREFAB.	PREFABRICATED
P.T.	PRESSURE TREATED
QTY	QUANTITY
QUARRY TILE	
R.P.	RADIANT PANEL
RAD.	RADIUS
R.W.C.	RAIN WATER CONDUCTOR
R.W.L.	RAIN WATER LEADER
REC.V.	RECEIVING
REFR.	REFRIGERATOR
RENF.	REINFORCE
R.A.	RELIEVING ANGLE
REQD.	REQUIRED
REVISED REVISION	
R.	RISER
RAH.	ROOF ACCESS HATCH/SCUTTLE
R.D.	ROOF DRAIN
R.F.	ROOF FAN
R.T.U.	ROOF TOP UNIT
RM	ROOM
RARL.	RUBBERIZED ASPHALT FABRIC LAMINATE
SND.	SANITARY NAPKIN DISPENSER
SNR.	SANITARY NAPKIN RECEPTACLE
SCHD.	SCHEDULE
SC.	SCUPPER
SECT.	SECTION
S.E.I.	SHEET
SIM.	SIMILAR
S.H.	SMOKE HATCH
SD	SOAP DISPENSER
S.T.C.	SOUND TRANSMISSION CLASS
SPEC.	SPECIFICATIONS
S.B.	SPLASH BLOCK
SQ.	SQUARE
S.F.	SQUARE FEET (FOOT)
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURAL
STRUC.	STRUCTURAL GLAZED FACING
THRU.	THROUGH
TPD.	TOILET PAPER DISPENSER
T & G.	TONGUE AND GROOVE
T.O.	TOP OF
T.	TREAD
TYP.	TYPICAL
TBO.	TADDBOARD
TRUJ.	TROUGH
T.P.	TILE
T & G.	TONGUE AND GROOVE
T.O.	TOP OF
T.	TREAD
TYP.	TYPICAL
UCR	UNDER COUNTER
UL	UNDERWRITER'S LABORATORIES, INC.
UH.	UNIT HEATER
U.V.	UNIT VENTILATOR
U.O.N.	UNLESS OTHERWISE NOTED
VTS	VENT STACK
VTR.	VENT THROUGH ROOF
VERT.	VERTICAL
VEST.	VESTIBULE
VCT	VINYL COMPOSITION TILE

SHEET NUMBER	SHEET NAME
GENERAL	
A000	COVER
A001	GENERAL INFORMATION
STRUCTURAL	
S001	STRUCTURAL GENERAL NOTES
S101.2A	PARTIAL ROOF STRUCTURAL FRAMING PLAN - AREA A
S101.2B	PARTIAL ROOF STRUCTURAL FRAMING PLAN - AREA B
ARCHITECTURAL	
A102.1	OVERALL DEMOLITION RCP
A101.3	OVERALL ROOF PLAN & ELECTRICAL ROOM
A102.1	OVERALL RCP & DETAILS
A001	ROOF DETAILS
FIRE PROTECTION	
FP001	FIRE PROTECTION NOTES, DESIGN CRITERIA, LEGENDS, & ABBREVIATIONS
FP101.1A	PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - AREA A
FP101.1B	PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - AREA B
MECHANICAL	
M001	MECHANICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS
M002	MECHANICAL VENTILATION CALCULATIONS & ENERGY COMPLIANCE
MD101.1A	PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART A
MD101.1B	PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART B
MD101.2A	PARTIAL ROOF MECHANICAL DEMOLITION PLAN - AREA A
MD101.2B	PARTIAL ROOF MECHANICAL DEMOLITION PLAN - AREA B
MD101.1A	PARTIAL FIRST FLOOR MECHANICAL DUCTWORK PLAN - AREA A
MD101.1B	PARTIAL FIRST FLOOR MECHANICAL DUCTWORK PLAN - AREA B
MD101.2A	PARTIAL ROOF MECHANICAL DUCTWORK PLAN - AREA A
MD101.2B	PARTIAL ROOF MECHANICAL DUCTWORK PLAN - AREA B
MP102.1A	PARTIAL FIRST FLOOR MECHANICAL PIPING/CONTROLS PLAN - AREA A
MP102.1B	PARTIAL FIRST FLOOR MECHANICAL PIPING/CONTROLS PLAN - AREA B
MP102.2	OVERALL ROOF MECHANICAL PIPING PLAN
M601	MECHANICAL DETAILS
M602	MECHANICAL DETAILS
M603	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M602	MECHANICAL SCHEDULES
M701	MECHANICAL CONTROLS
M702	MECHANICAL CONTROLS
M801	MECHANICAL VRF PIPING DIAGRAM
M802	MECHANICAL VRF PIPING DIAGRAM
ELECTRICAL	
ED001	ELECTRICAL NOTES, SYMBOLS LEGENDS, ABBREVIATIONS
ED101.1	OVERALL FIRST FLOOR ELECTRICAL DEMOLITION PLAN
ED101.1A	PARTIAL FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA A
ED101.1B	PARTIAL FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA B
ED101.2	OVERALL ROOF ELECTRICAL DEMOLITION PLAN
ED101.2A	PARTIAL ROOF ELECTRICAL DEMOLITION PLAN - AREA A
ED101.2B	PARTIAL ROOF ELECTRICAL DEMOLITION PLAN - AREA B
E101.1	OVERALL FIRST FLOOR ELECTRICAL PLAN
E101.1A	PARTIAL FIRST FLOOR ELECTRICAL PLAN - AREA A
E101.1B	PARTIAL FIRST FLOOR ELECTRICAL PLAN - AREA B
E101.2	OVERALL ROOF ELECTRICAL PLAN
E101.2A	PARTIAL ROOF ELECTRICAL PLAN - AREA A
E101.2B	PARTIAL ROOF ELECTRICAL PLAN - AREA B
E401	ELECTRICAL DETAILS
E501	ELECTRICAL SCHEDULES
E502	ELECTRICAL PANELBOARD SCHEDULES
E601	ELECTRICAL RISER DIAGRAM

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North Stratfield Elementary School
190 PUTTING GREEN RD.
FAIRFIELD, CT 06825

Architecture
Engineering
Environmental
Land Surveying
Companies

355 Research Parkway
Meriden, CT 06460
(203) 630-1000

NO	DATE	DESCRIPTION

DESIGNED: CN
DRAWN: NV
PROJECT NO.: 2301051
DATE: 02/29/2023
ISSUED FOR: 95% CONSTRUCTION DOCUMENTS

GENERAL INFORMATION

Sheet No. **A001**

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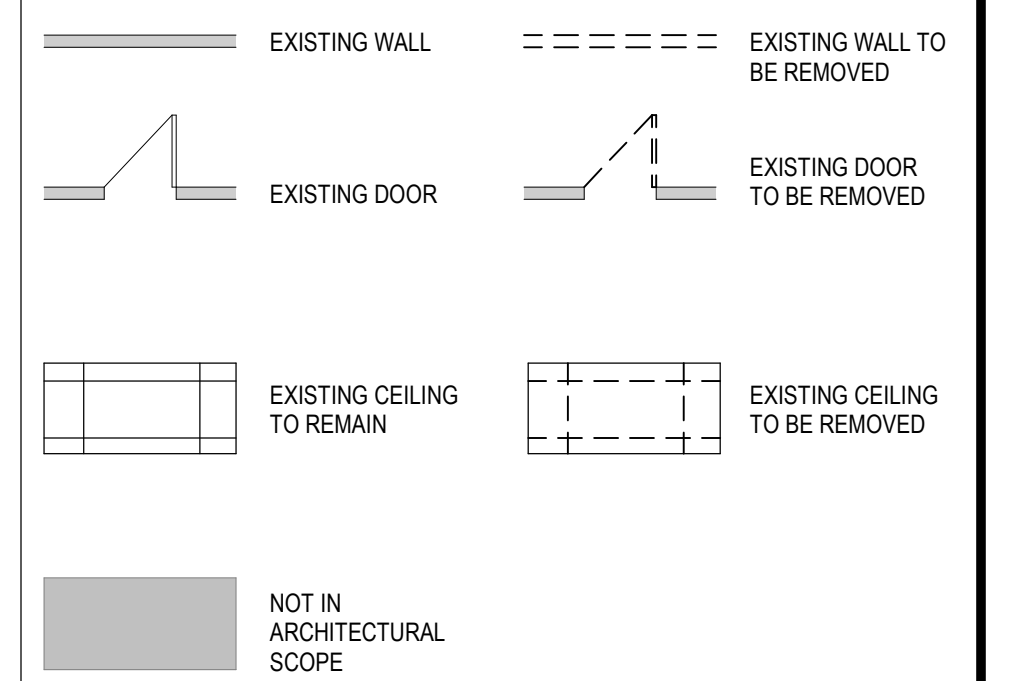
1 OVERALL DEMOLITION RCP
1/16" = 1'-0"



DEMOLITION PLAN GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL NECESSARY TO COMPLETE THE WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL, INCLUDING ALL COSTS FOR CARRYING AND DUMPING, OF ALL MATERIAL DEMOLISHED FROM THE PROJECT. THE CONTRACTOR SHALL PROVIDE OWNER WITH FIRST RIGHTS TO ALL MATERIALS, INCLUDING DOORS, HARDWARE, WINDOWS, PLUMBING FIXTURES, ETC., BEFORE REMOVING FROM SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND REPAIR ALL EXISTING TO REMAIN AREAS AND SURFACES AS NOTED AND/OR SHOWN. THIS INCLUDES ALL WORK NECESSARY TO READY SURFACES FOR NEW FINISH (I.E. TO FOLLOW IN CONSTRUCTION PHASE MATCH ALL ADJACENT MATERIALS WHERE PATCHING OCCURS).
3. ANY AND ALL PLUMBING FIXTURES/ACCESSORIES SHOWN DASHED ARE TO BE REMOVED AND DISCARDED, UNLESS OTHERWISE NOTED. ANY RELATED PIPING WHICH IS BEING ABANDONED SHALL BE REMOVED AND CAPPED TO NEAREST TERMINATION POINT. ALL RELATED WORK REQUIRED IN ADJACENT WALLS, FLOORS BELOW, FLOORS ABOVE OR ON THE EFFECTED FLOOR ITSELF SHALL BE PATCHED AND PREPPED FOR NEW FINISH.
4. ALL WALLS SHOWN DASHED ARE TO BE REMOVED AND DISCARDED, UNLESS OTHERWISE NOTED. ANY WALL OR SURFACE BEING WORKED ON SHALL BE PATCHED AND REPAIRED WITH A COMPLETE FINISH TO THE NEAREST CORNER, CHANGE OF PLANE OR OTHER JUNCTURE WHICH ALLOWS FOR A SMOOTH AND CLEAN TRANSITION FROM THE NEWLY FINISHED SURFACE TO THE SURROUNDING EXISTING SURFACES (THE INTENT IS TO AVOID THE APPEARANCE OF A PATCHED CONDITION).
5. IT IS NOT THE INTENT TO SHOW EVERY PIECE OR ITEM TO BE REMOVED IN DEMOLITION WORK. MECHANICAL, ELECTRICAL AND/OR OTHER WORK RELATED TO A WALL OR AREA SCHEDULED FOR DEMOLITION AND REMOVAL SHALL BE PERFORMED WHETHER SO NOTED OR NOT. PROTECT ALL ITEMS INTENDED FOR SALVAGE AND REUSE OR SCHEDULED TO REMAIN.
6. WHEN ROOF CONSTRUCTION, OR OTHER SUPPORTING AND / OR BRACING ELEMENTS ARE SCHEDULED FOR DEMOLITION AND REMOVAL SHALL BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT STRUCTURES ARE IN PLACE AND ABLE TO SUPPORT THE IMPOSED LOADS.
7. PRESERVE AND PROTECT ALL FLOOR, WALL, AND CEILING FINISHES TO REMAIN WHERE POSSIBLE IN AREAS OF DEMOLITION. PATCH TO MATCH AS REQUIRED.
8. REPAIR ALL REMAINING WALLS, CEILINGS AND FLOOR SURFACES WHERE DEMOLITION OCCURS. THIS INCLUDES MEP AND OTHER NECESSARY WORK IN CEILINGS AND WALLS AT FLOOR BELOW. SEE MEP DRAWINGS FOR PROBABLE EXTENT.
9. REFER TO MEP PLANS AND/OR SPECS FOR SCOPE OF ALL MEP DEMOLITION.

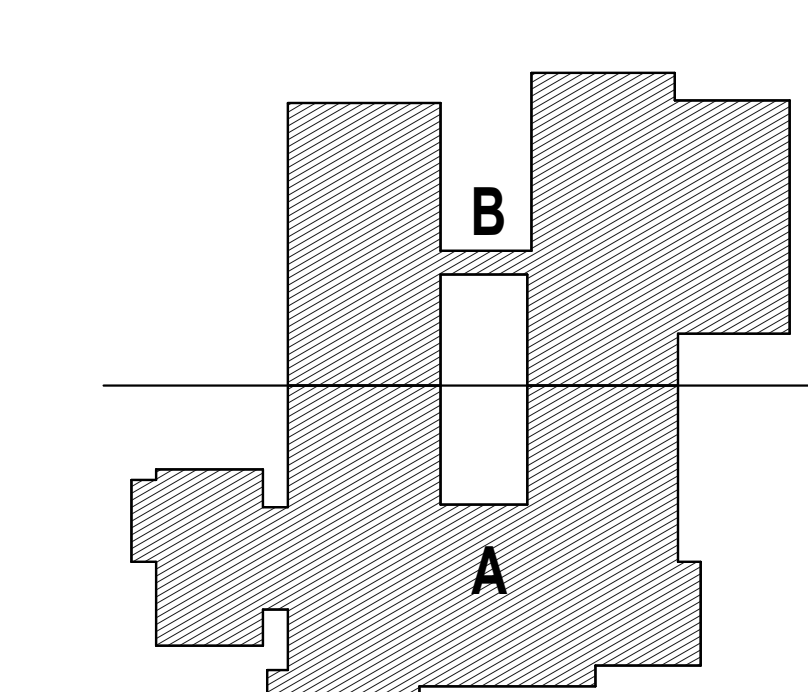
DEMOLITION LEGEND



KEYNOTES DEMOLITION

1. REMOVE AND DISPOSE OF CEILING IN ITS ENTIRETY. PREPARE FOR INSTALLATION OF NEW CEILING. REMOVE, STORE AND REINSTALL ALL EXISTING LIGHTS.
2. REMOVE AND DISPOSE OF CEILING TILES.
3. EXISTING CEILING OR OPEN STRUCTURE ABOVE TO REMAIN. REMOVE, STORE AND REINSTALL ALL CEILING-HUNG W/F, PROJECTORS AND SUPPORTS WHERE OCCURS.
- 4.

KEY PLAN



KEY PLAN

REVISIONS

NO DATE DESCRIPTION

Designed: CN
Drawn: NW
Reviewed: JJ
Project No.: 2300053
Date: 09/29/2023
Issued for:
95% CONSTRUCTION
DOCUMENTS

Title:
OVERALL DEMOLITION
RCP

Sheet No.

AD102.1

ROOF PLAN GENERAL NOTES

REFER TO DRAWING A001 FOR TYPICAL ABBREVIATIONS AND TYPICAL GRAPHIC LEGEND

ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF METAL STUD, AND TO THE CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE.

ALL DOORS SHALL BE LOCATED WITH HINGE SIDE OF FRAME 4" OFF FINISHED WALL (AT CORNER CONDITION), UNLESS OTHERWISE NOTED.

ALL EXTERIOR DOORS SHALL BE FULLY WEATHER STRIPPED.

PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING OR STEEL FLAT STRAP AND BACKING PLATE AT ALL TOILET ACCESSORIES, CASEWORK, MILLWORK AND ALL OTHER WALL MOUNTED EQUIPMENT AND DEVICES.

ALL EXISTING TO REMAIN ITEMS ADJACENT TO OR DISTURBED BY NEW CONSTRUCTION ARE TO BE PATCHED / REPAIRED TO MATCH EXISTING OR ADJACENT NEW CONSTRUCTION.

ALL PENETRATIONS IN EXISTING WALLS OR FLOORS SHALL BE SEALED FOR SMOKE / FIRE RATINGS AS REQUIRED.

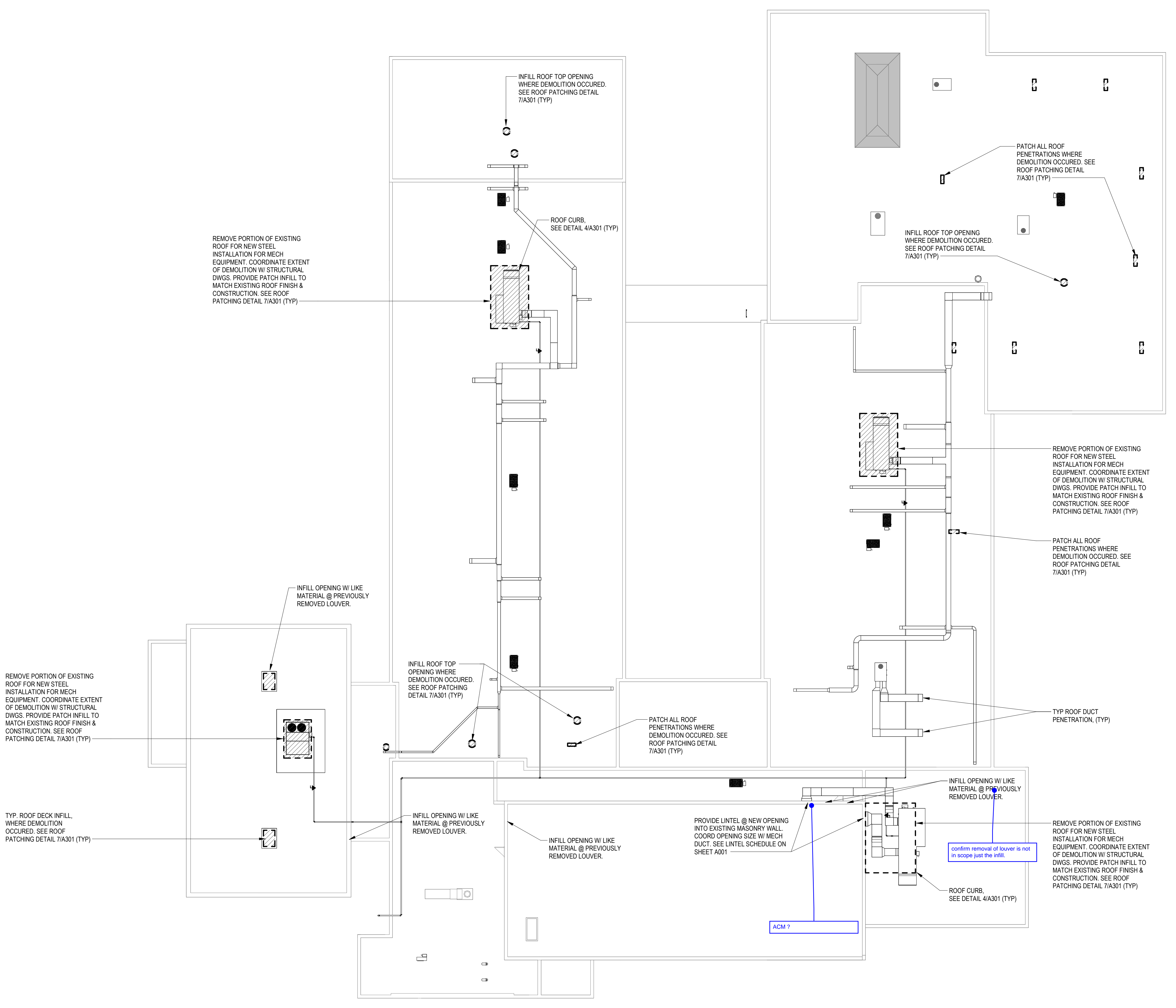
PROVIDE ANY OPENINGS REQUIRED FOR MECHANICAL, ELECTRICAL, PLUMBING AND TECHNOLOGY INSTALLATION OF NEW CONSTRUCTION AND REPAIR TO MATCH EXISTING.

PATCH AND LEVEL EXISTING FLOOR / CONCRETE SLAB AT ALL LOCATIONS AS REQUIRED.

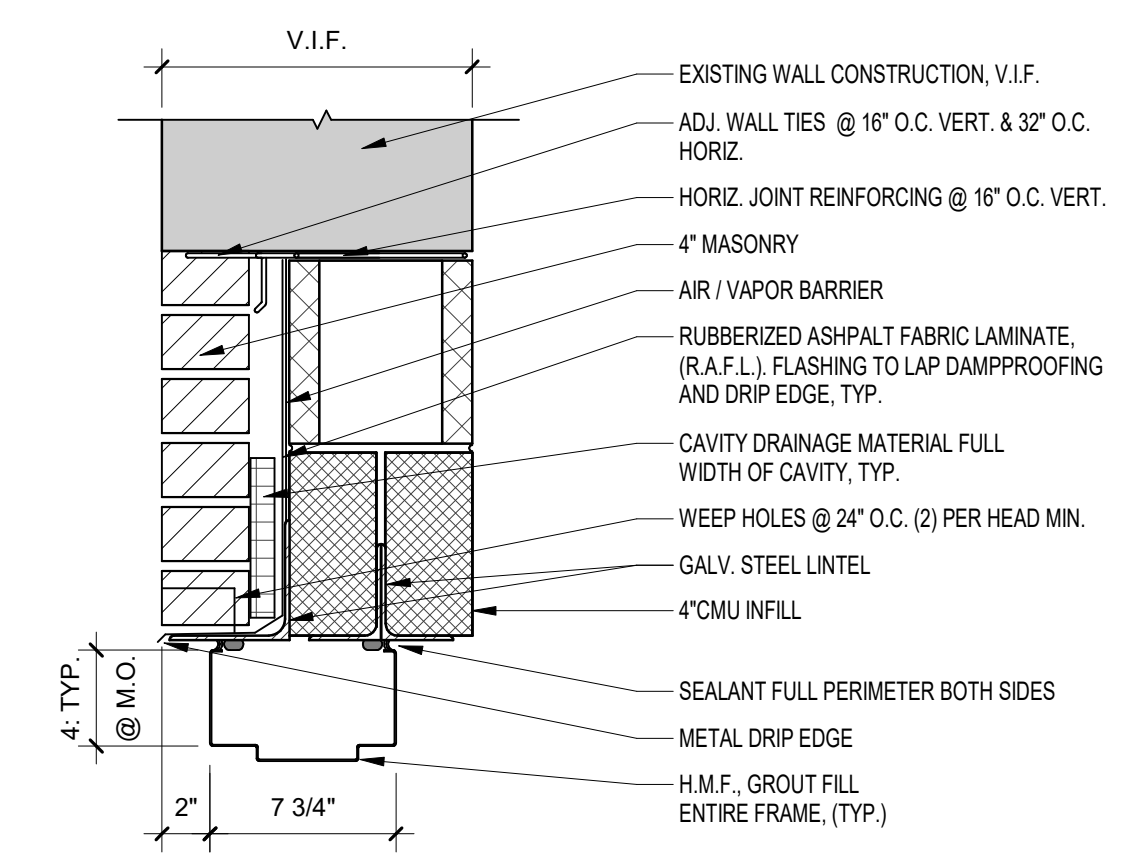
PREPARE ALL EXISTING SURFACES TO RECEIVE NEW FINISHES AS REQUIRED.

ROOF LEGEND

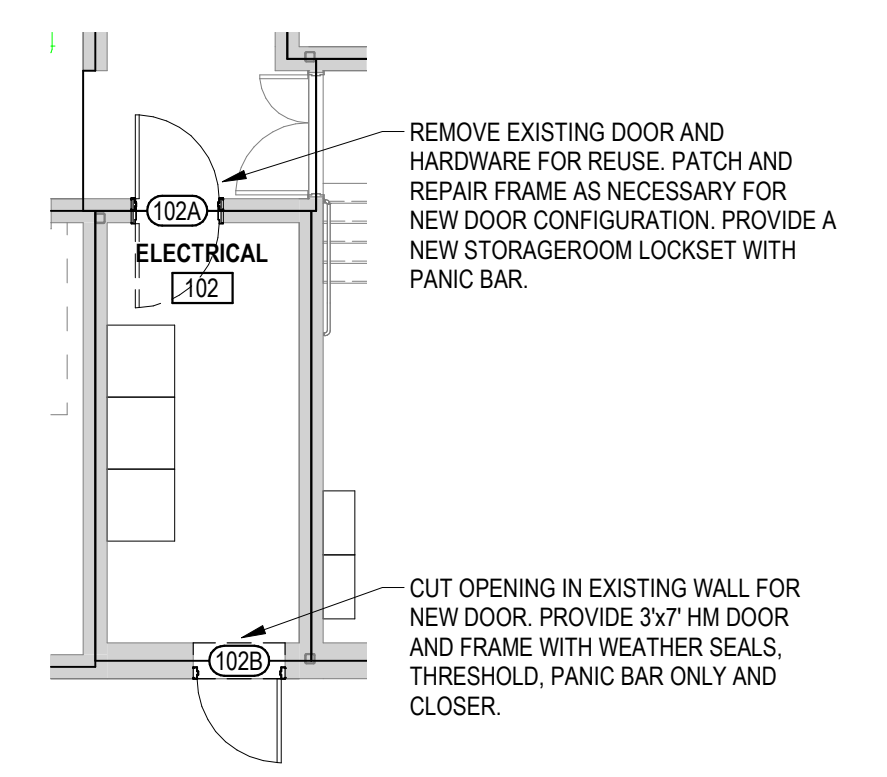
	EXISTING WALL		NEW WALL
	EXISTING DOOR		NEW DOOR
	DOOR TAG		WINDOW TAG
	PARTITION TAG		NOT IN ARCHITECTURAL SCOPE



1 OVERALL ROOF PLAN
1/16" = 1'-0"



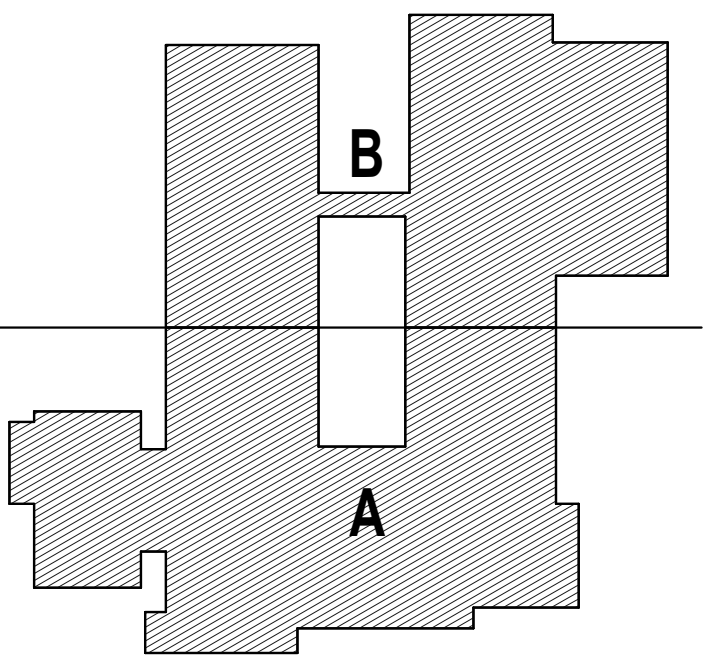
3 HEAD @ CAVITY WALL - CMU
1 1/2" = 1'-0"



2 ELECTRICAL ROOM 102
1/8" = 1'-0"

ELECTRICAL ROOM DOOR HARDWARE

QTY	DESCRIPTION	NUMBER	FINISH	MFG
3	HINGE (HEAVY WEIGHT)	T4A338 NRP	US32D	MK
1	RM EXIT DEVICE	8800 SERIES	US32D	SA
1	PERMANENT KEVED CORE	626	BY OTHERS	OT
1	SURFACE CLOSER (STOP)	CP87500	689	NO
1	ARMOR PLATE (PUSH SIDE)	K1000 (F) 34" H X 2" LDW CSK	US32D	RO
1	THRESHOLD	273X3AFG		PE
1	RAM GUARD	340C		PE
1	GASKETING (HEAD)	2895AV		PE
2	GASKETING (LAMBS)	2803AV		PE
1	DOOR BOTTOM	Z168DFG		PE

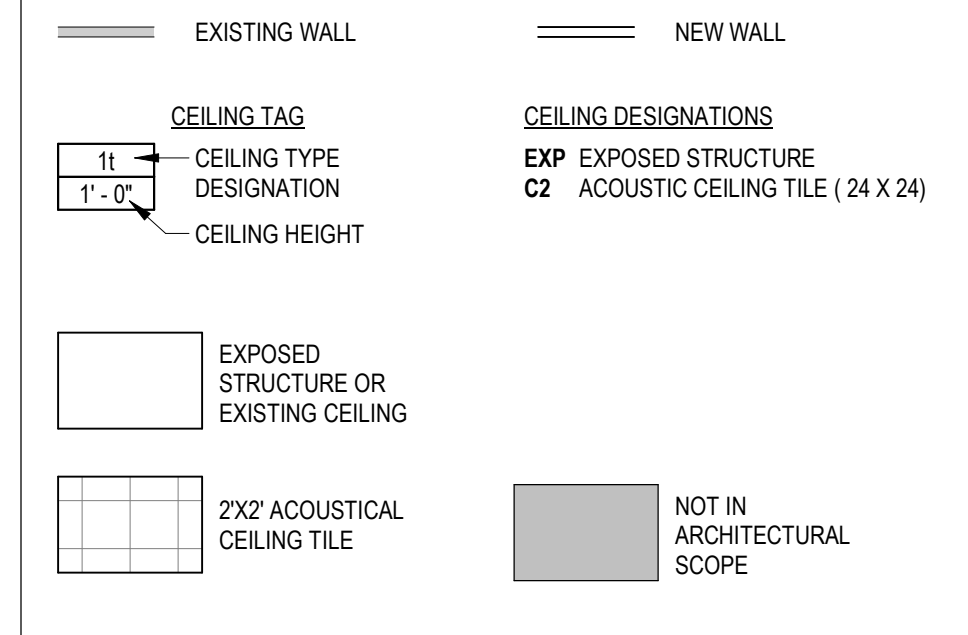


KEY PLAN

CEILING PLAN GENERAL NOTES

- "EXP" OR "EXPOSED" CEILING INDICATES THE STRUCTURE AND ANY MEP ELEMENTS IN THIS SPACE ARE TO BE EXPOSED AND PAINTED TO CREATE A FINISHED SPACE.
- REFLECTED CEILING PLANS ARE INTENDED FOR COORDINATION PURPOSES FOR MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND ARCHITECTURAL ELEMENTS. REFER TO RESPECTIVE DRAWINGS FOR SPECIFIC REQUIREMENTS.
- LIGHT FIXTURE SYMBOLS ON REFLECTED CEILING PLANS ARE DIAGRAMMATIC AND FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR TYPE OF LIGHT FIXTURES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR QUANTITY OF LIGHT FIXTURES AS INDICATED ON ELECTRICAL DRAWINGS.
- REFER TO FIRE PROTECTION DRAWINGS FOR ADDITIONAL REQUIREMENTS FOR LOCATION OF SPRINKLER PIPING AND ADDITIONAL SPRINKLER HEADS. ALL SPRINKLER PIPING SHALL BE LOCATED ABOVE FINISHED CEILING UNLESS NOTED OTHERWISE. ADVISE ARCHITECT OF ANY CONFLICTS WHICH MUST BE RESOLVED PRIOR TO INSTALLATION.
- ANY CEILING MOUNTED DEVICES INSTALLED ON A PANELIZED CEILING SHALL BE CENTERED ON PANELS OR GRIDS UNLESS OTHERWISE NOTED.
- SEE CEILING AND SOFFIT DETAILS THIS SHEET.
- FOR REGISTER AND DIFFUSER SCHEDULES, REFER TO MECHANICAL DRAWINGS.
- CONTRACTOR TO LOCATE MEP AND AVIT COMPONENTS THAT REQUIRE SERVING INTO ACCESSIBLE CEILING AREAS TO THE GREATEST EXTENT POSSIBLE.
- COORDINATE ACCESS PANEL LOCATIONS WITH MECHANICAL TRADES. SUBMIT PROPOSED LOCATIONS TO ARCHITECT FOR APPROVAL.
- SEE SPECIFICATIONS FOR INFORMATION ON SEISMIC RESTRAINT OF CEILING SYSTEMS.

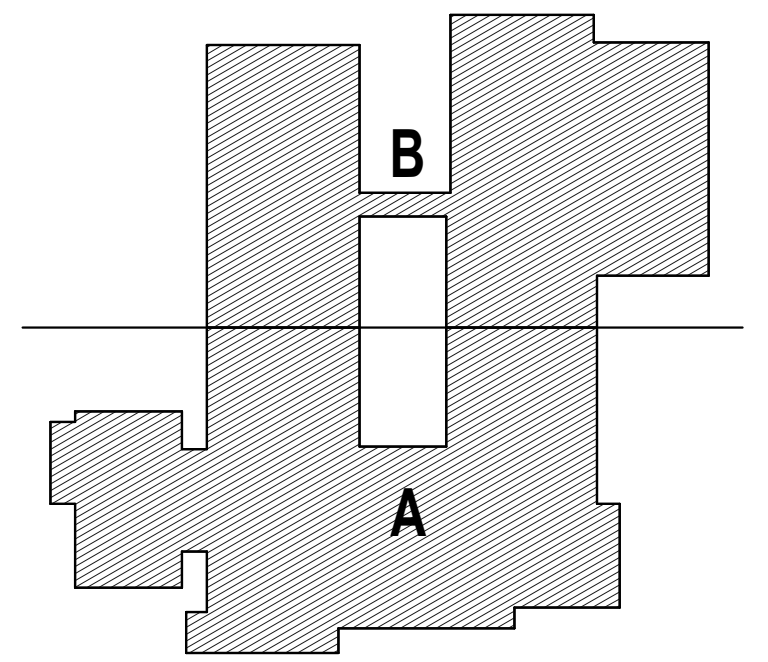
CEILING LEGEND



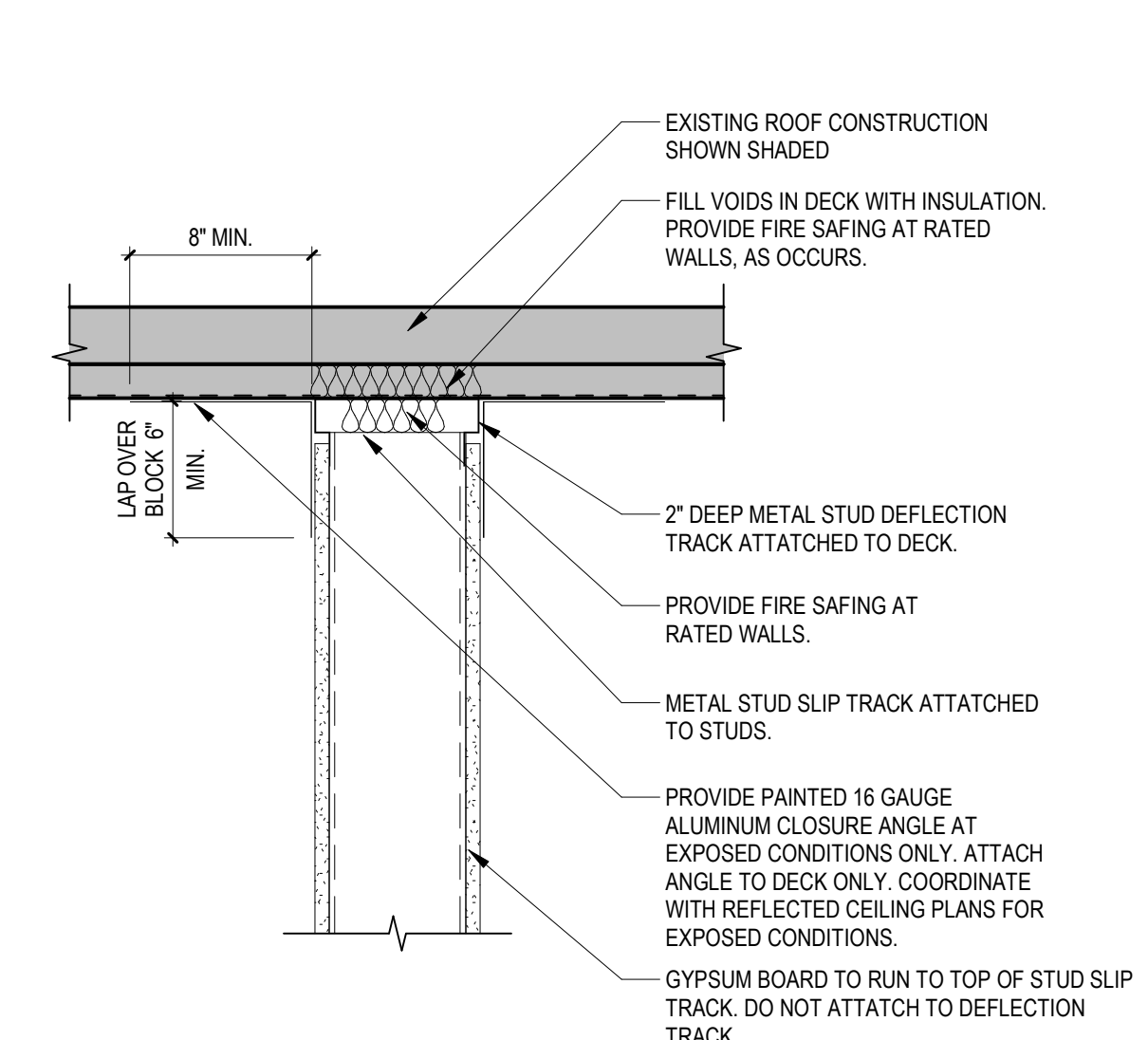
KEYNOTES CONSTRUCTION

- ROUTE CONDENSATE PIPING DOWN WALL FROM CEILING TO NEAREST SINK COUNTERTOP. PROVIDE A HOLE IN COUNTER TO RUN PIPING DOWN TO TRAP. TIE-IN CONDENSATE PIPING TO TRAP BELOW SINK. CONCEAL EXPOSED PIPING IN METAL ENCLOSURE. PAINT TO MATCH EXISTING ADJACENT WALL.
- ROUTE CONDENSATE PIPING TO NEAREST SINK IF APPLICABLE (REFER TO NOTE 1). IF NO SINK IS AVAILABLE, THEN ROUTE CONDENSATE PIPING DOWN WALL WHERE THERE IS NO INTERFERENCE TO ABOUT 18" A.F.F. & ROUTE THROUGH EXTERIOR WALL. REFER TO MECH DWGS FOR ADDITIONAL IN.

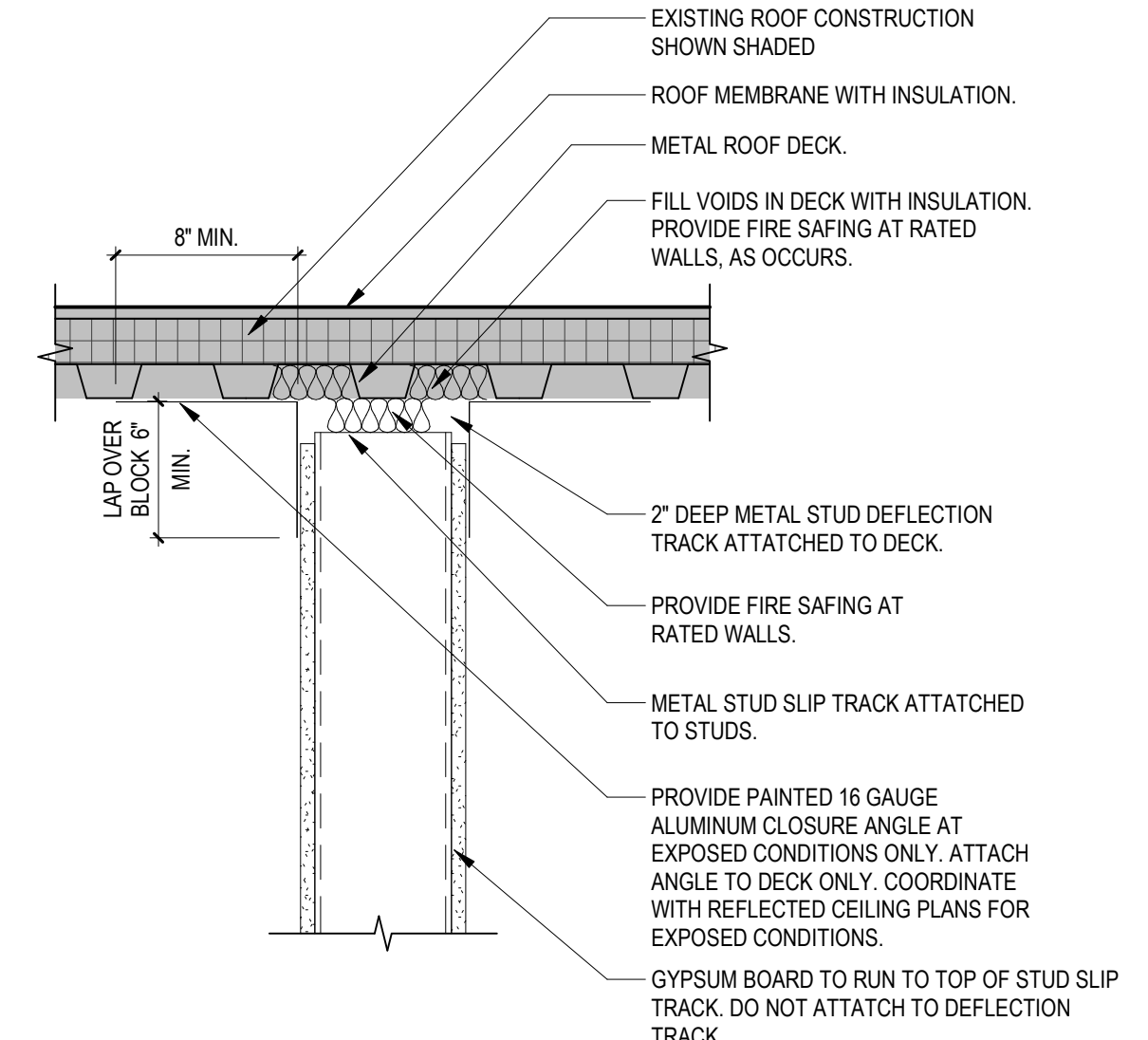
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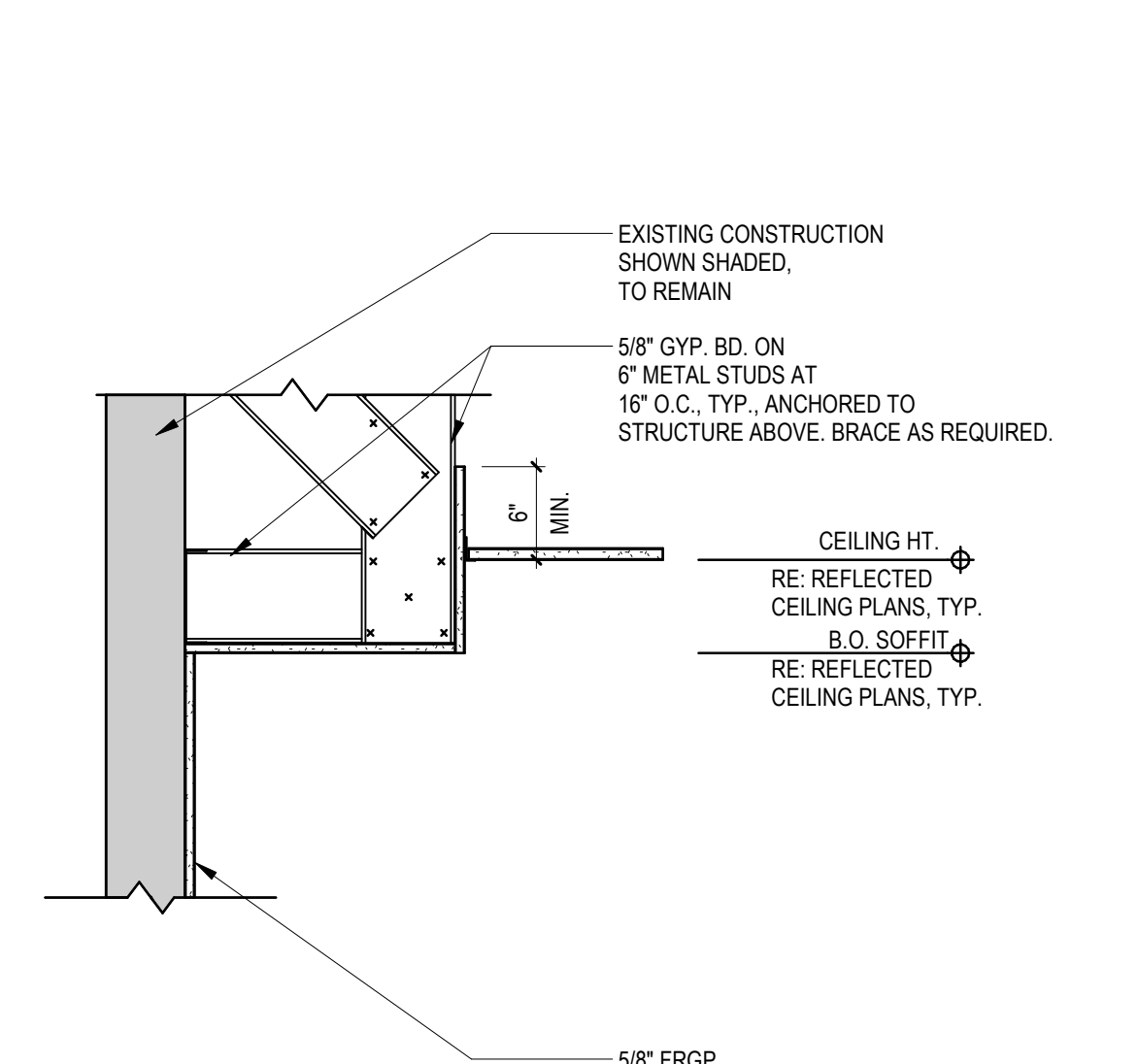
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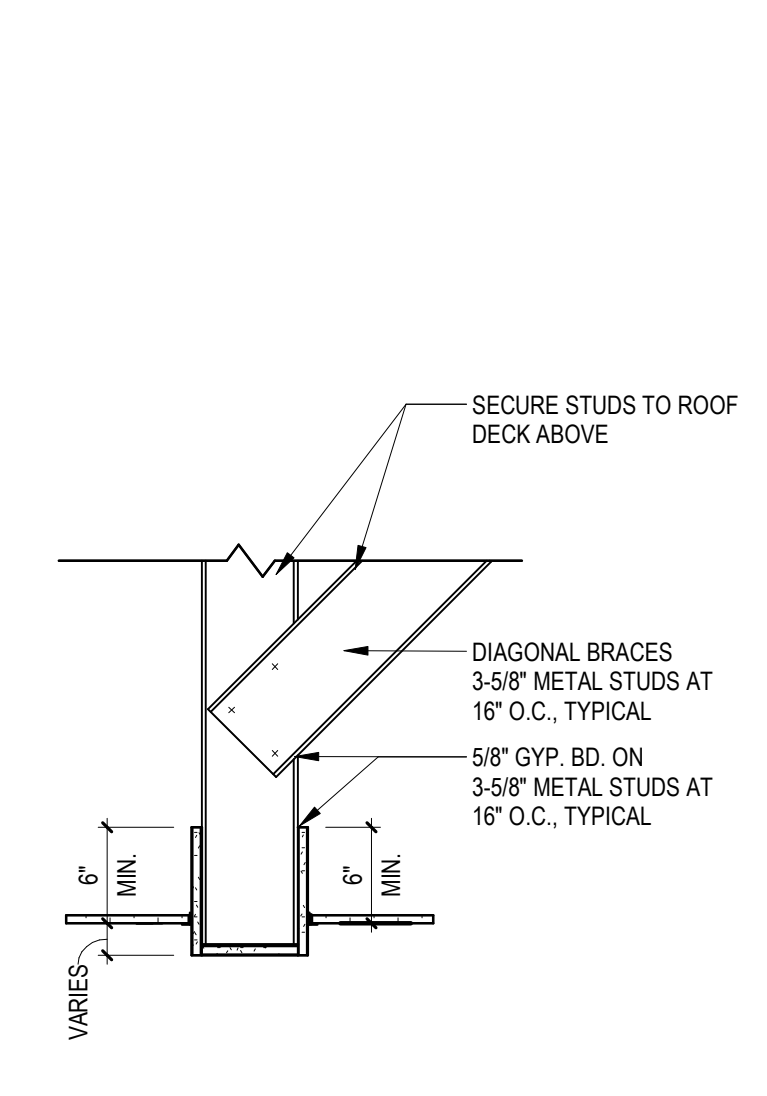
5 TYPICAL RATED T.O. WALL CONSTRUCTION - STUD
1 1/2" = 1'-0"



4 DEFLECTION TRACK STUD TO ROOF
1 1/2" = 1'-0"



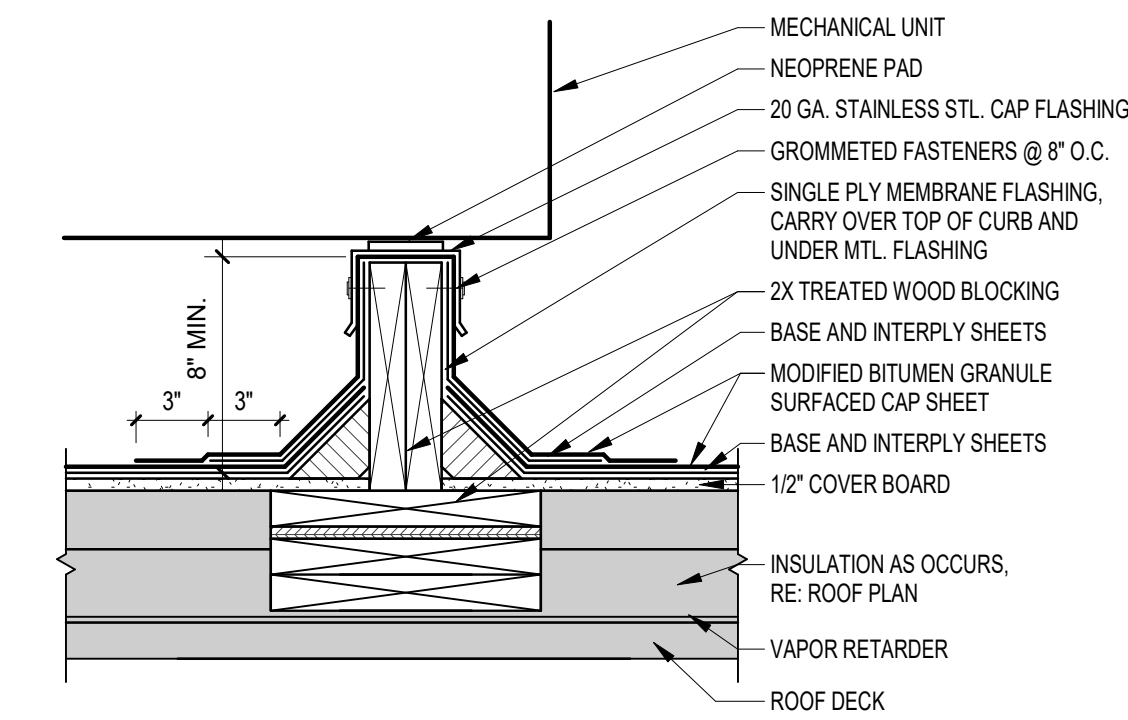
3 SOFFIT DETAIL
1" = 1'-0"



2 SOFFIT DETAIL
1" = 1'-0"

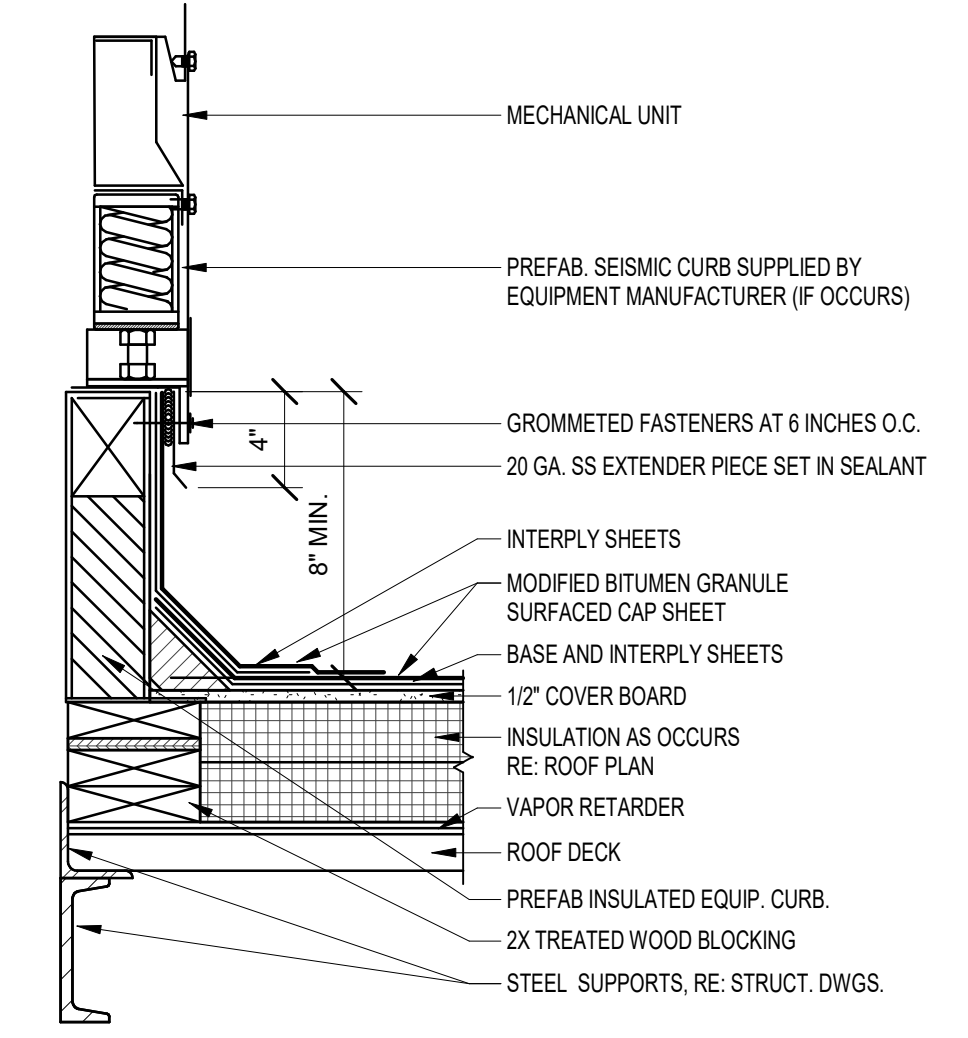


1 OVERALL RCP & DETAILS
1/16" = 1'-0"



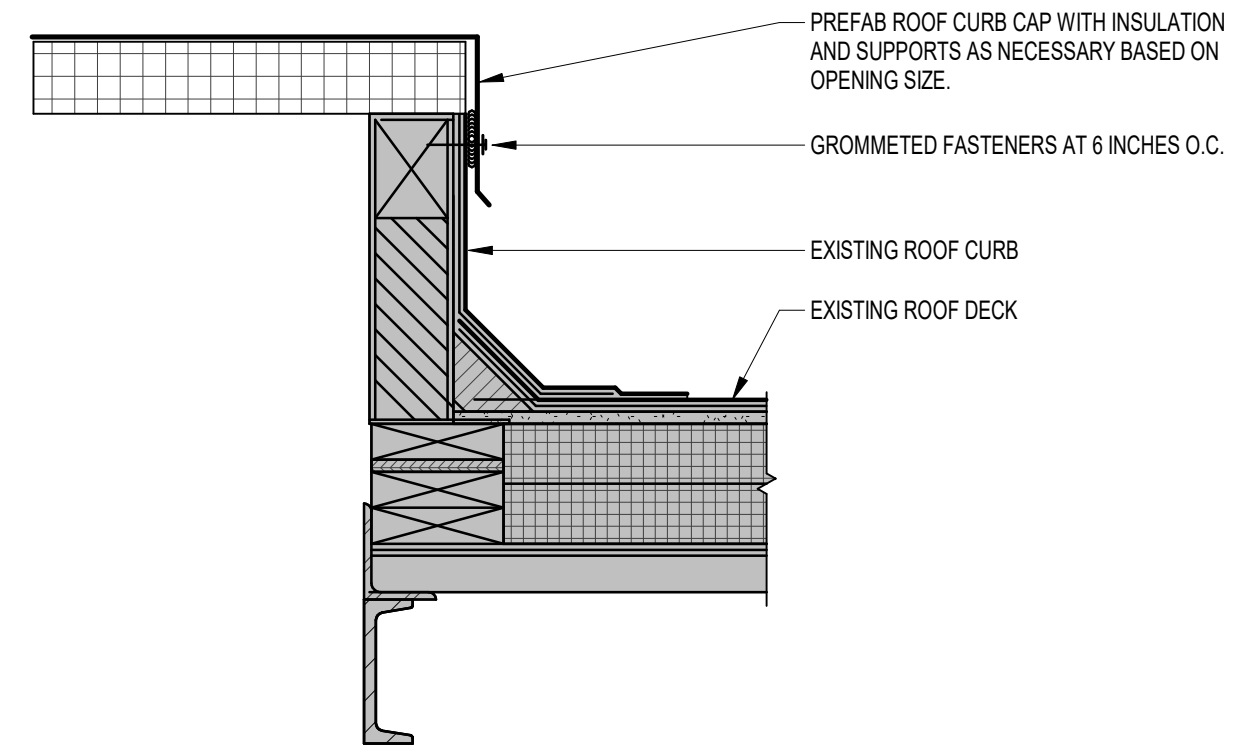
5 CONDENSING UNIT DETAIL
1 1/2" = 1'-0"

NOTES:
1. ANCHOR CONDENSING UNIT TO CURBS TYP.
2. NAILERS SHALL BE SECURELY ANCHORED TO THE DECK TO RESIST PROJECT WIND LOADS FOR THE ROOF AND EQUIPMENT.



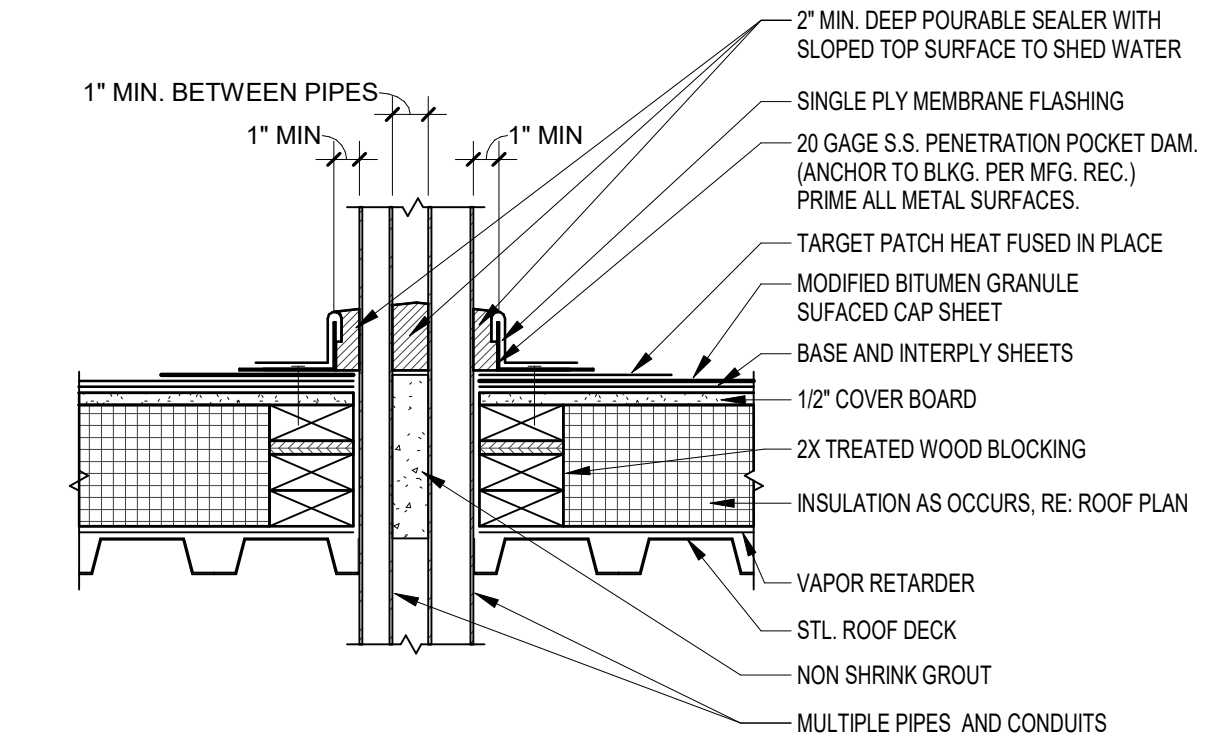
4 ROOF TOP UNIT CURB
1 1/2" = 1'-0"

NOTE:
1. NAILERS AND EQUIPMENT CURBS SHALL BE SECURELY ANCHORED TO THE DECK TO RESIST PROJECT WIND LOADS FOR THE ROOF AND EQUIPMENT.



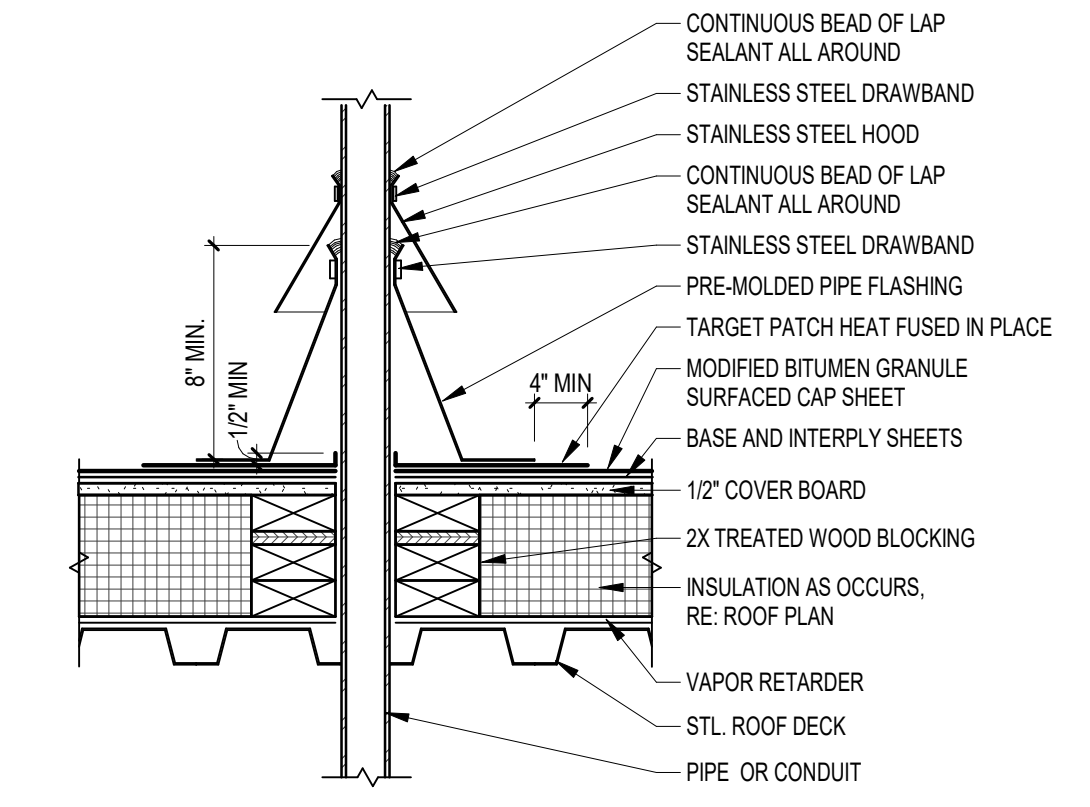
6 ROOF TOP UNIT CURB
1 1/2" = 1'-0"

PREFAB ROOF CURB CAP WITH INSULATION AND SUPPORTS AS NECESSARY BASED ON OPENING SIZE.
GROMMETED FASTENERS AT 6 INCHES O.C.
EXISTING ROOF CURB
EXISTING ROOF DECK



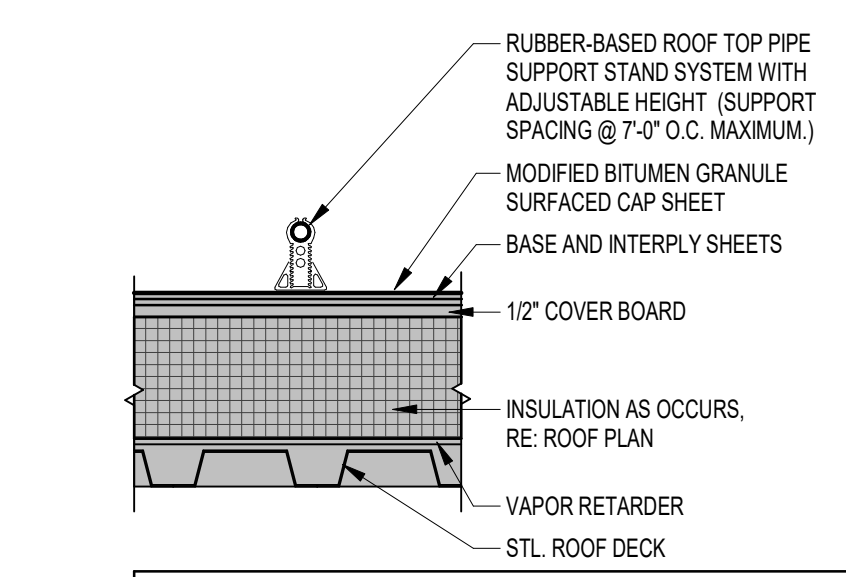
3 PIPE/CONDUIT PENETRATION W/ PITCH POCKET
1 1/2" = 1'-0"

2" MIN. DEEP POURABLE SEALER WITH SLOPED TOP SURFACE TO SHED WATER
1" MIN. BETWEEN PIPES
1" MIN.
1" MIN.
SINGLE PLY MEMBRANE FLASHING
20 GAGE S.S. PENETRATION POCKET DAM (ANCHOR TO BLDG. PER MFG. REC.)
PRIME ALL METAL SURFACES.
TARGET PATCH HEAT FUSED IN PLACE
MODIFIED BITUMEN GRANULE SURFACED CAP SHEET
BASE AND INTERPLY SHEETS
2X TREATED WOOD BLOCKING
1/2" COVER BOARD
INSULATION AS OCCURS, RE: ROOF PLAN
VAPOR RETARDER
STL. ROOF DECK
NON SHRINK GROUT
MULTIPLE PIPES AND CONDUITS



2 PIPE/CONDUIT PENETRATION (SINGLE)
1 1/2" = 1'-0"

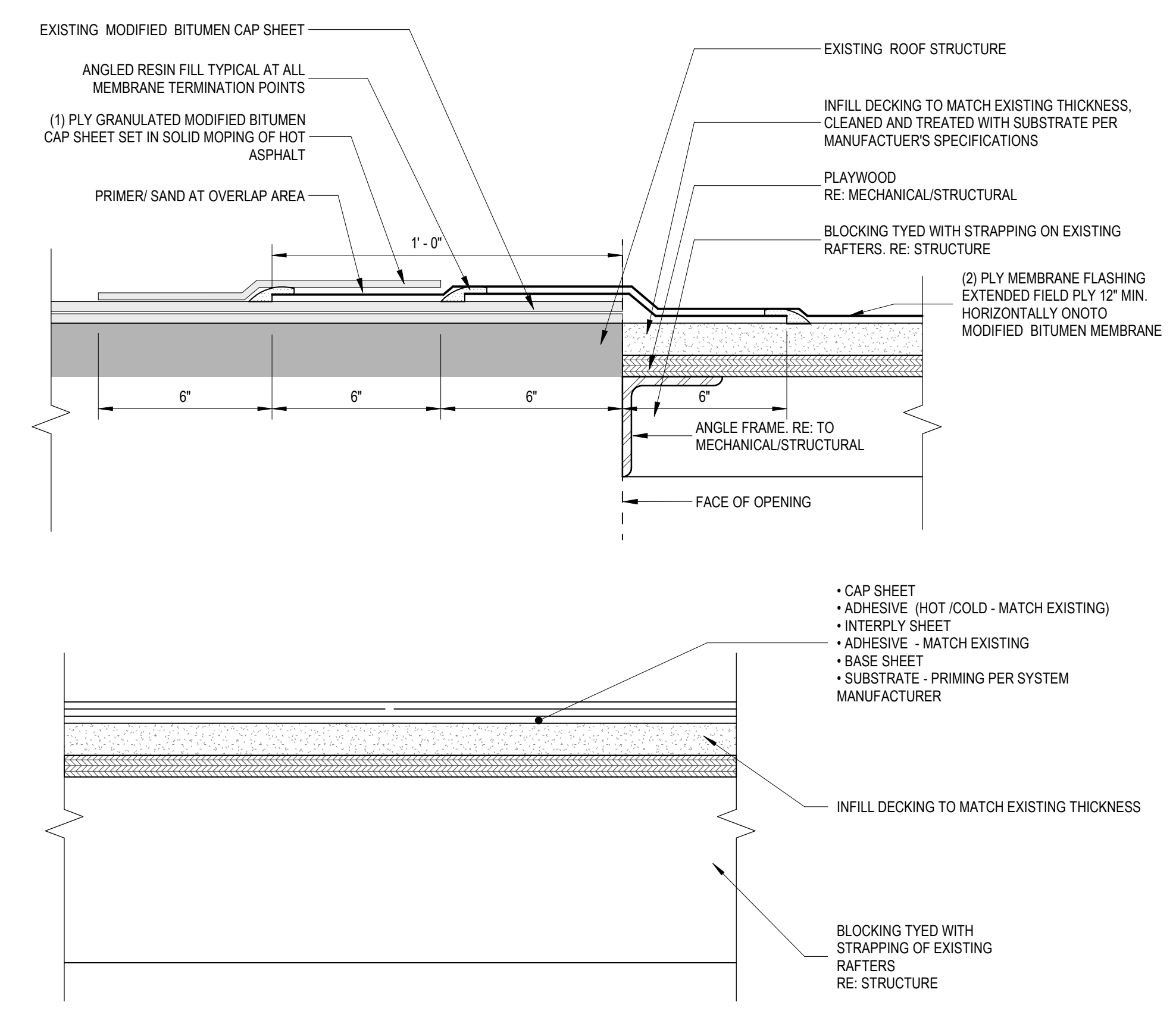
CONTINUOUS BEAD OF LAP SEALANT ALL AROUND
STAINLESS STEEL DRAWBAND
STAINLESS STEEL HOOD
CONTINUOUS BEAD OF LAP SEALANT ALL AROUND
STAINLESS STEEL DRAWBAND
PRE-MOLDED PIPE FLASHING
TARGET PATCH HEAT FUSED IN PLACE
MODIFIED BITUMEN GRANULE SURFACED CAP SHEET
BASE AND INTERPLY SHEETS
1/2" COVER BOARD
2X TREATED WOOD BLOCKING
INSULATION AS OCCURS, RE: ROOF PLAN
VAPOR RETARDER
STL. ROOF DECK
PIPE OR CONDUIT



1 PIPE SUPPORT STAND SYSTEM
1 1/2" = 1'-0"

RUBBER-BASED ROOF TOP PIPE SUPPORT STAND SYSTEM WITH ADJUSTABLE HEIGHT SUPPORT (SPACING @ 7'-0" O.C. MAXIMUM)
MODIFIED BITUMEN GRANULE SURFACED CAP SHEET
BASE AND INTERPLY SHEETS
1/2" COVER BOARD
INSULATION AS OCCURS, RE: ROOF PLAN
VAPOR RETARDER
STL. ROOF DECK

NOTE: THE SUPPORT SHALL BE BY ERICO, THE CADDY PYRAMID, ERICO, 31700 SOLON ROAD, SOLON, OH 44136, 800-953-9880, OR AN APPROVED EQUAL.



7 ROOF PATCHING DETAILS
3" = 1'-0"

EXISTING MODIFIED BITUMEN CAP SHEET
ANGLED RESIN FILL TYPICAL AT ALL MEMBRANE TERMINATION POINTS
(1) PLY GRANULATED MODIFIED BITUMEN CAP SHEET SET IN SOLID MOPPING OF HOT ASPHALT
PRIMER/ SAND AT OVERLAP AREA
EXISTING ROOF STRUCTURE
INFILL DECKING TO MATCH EXISTING THICKNESS, CLEANED AND TREATED WITH SUBSTRATE PER MANUFACTURER'S SPECIFICATIONS
PLAYWOOD RE: MECHANICAL/STRUCTURAL
BLOCKING TYED WITH STRAPPING ON EXISTING RAFTERS. RE: STRUCTURE
(2) PLY MEMBRANE FLASHING EXTENDED FIELD PLY 12" MIN. HORIZONTALLY ON TO MODIFIED BITUMEN MEMBRANE
ANGLE FRAME. RE: TO MECHANICAL/STRUCTURAL
FACE OF OPENING
CAP SHEET
ADHESIVE (HOT/COLD - MATCH EXISTING)
INTERPLY SHEET
ADHESIVE - MATCH EXISTING
BASE SHEET
SUBSTRATE - PRIMING PER SYSTEM MANUFACTURER
INFILL DECKING TO MATCH EXISTING THICKNESS
BLOCKING TYED WITH STRAPPING OF EXISTING RAFTERS RE: STRUCTURE

NO	DATE	DESCRIPTION

Designed:	MK
Drawn:	MK
Reviewed:	JVCB
Project No.:	230105
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - AREA A
Sheet No.:	

FIRE PROTECTION KEY NOTES

- EXISTING SPRINKLER HEADS, AND ASSOCIATED SPRINKLER MAINS & BRANCH PIPING TO REMAIN IN THESE AREAS. COORDINATE SPRINKLER LOCATIONS WITH CEILING MOUNTED DEVICES AND EQUIPMENT. ADJUST OTHER DEVICE LOCATIONS AS REQUIRED TO ELIMINATE SPRINKLER CONFLICTS WHILE MAINTAINING PROPER SPACING AND COVERAGE, PER NFPA 13.
- AREA NOT IN SCOPE
- PROVIDE ADDITIONAL SPRINKLER HEADS BELOW AND AROUND NEW DUCTWORK, AS REQUIRED TO INSURE PROPER FLOOR COVERAGE PER NFPA #13. PROVIDE SPRINKLER GUARDS WHERE HEADS ARE SUBJECT TO MECHANICAL DAMAGE.

DRAWING DESIGN NOTES

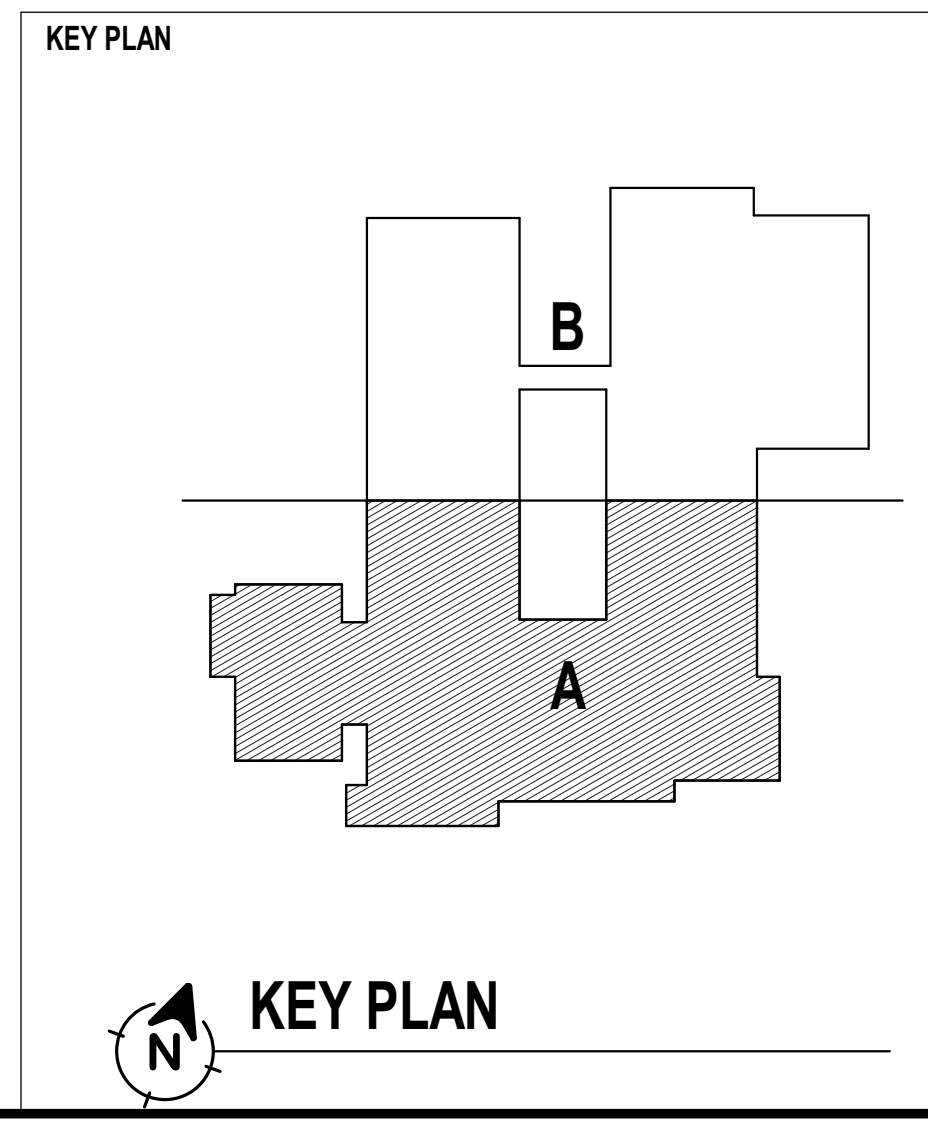
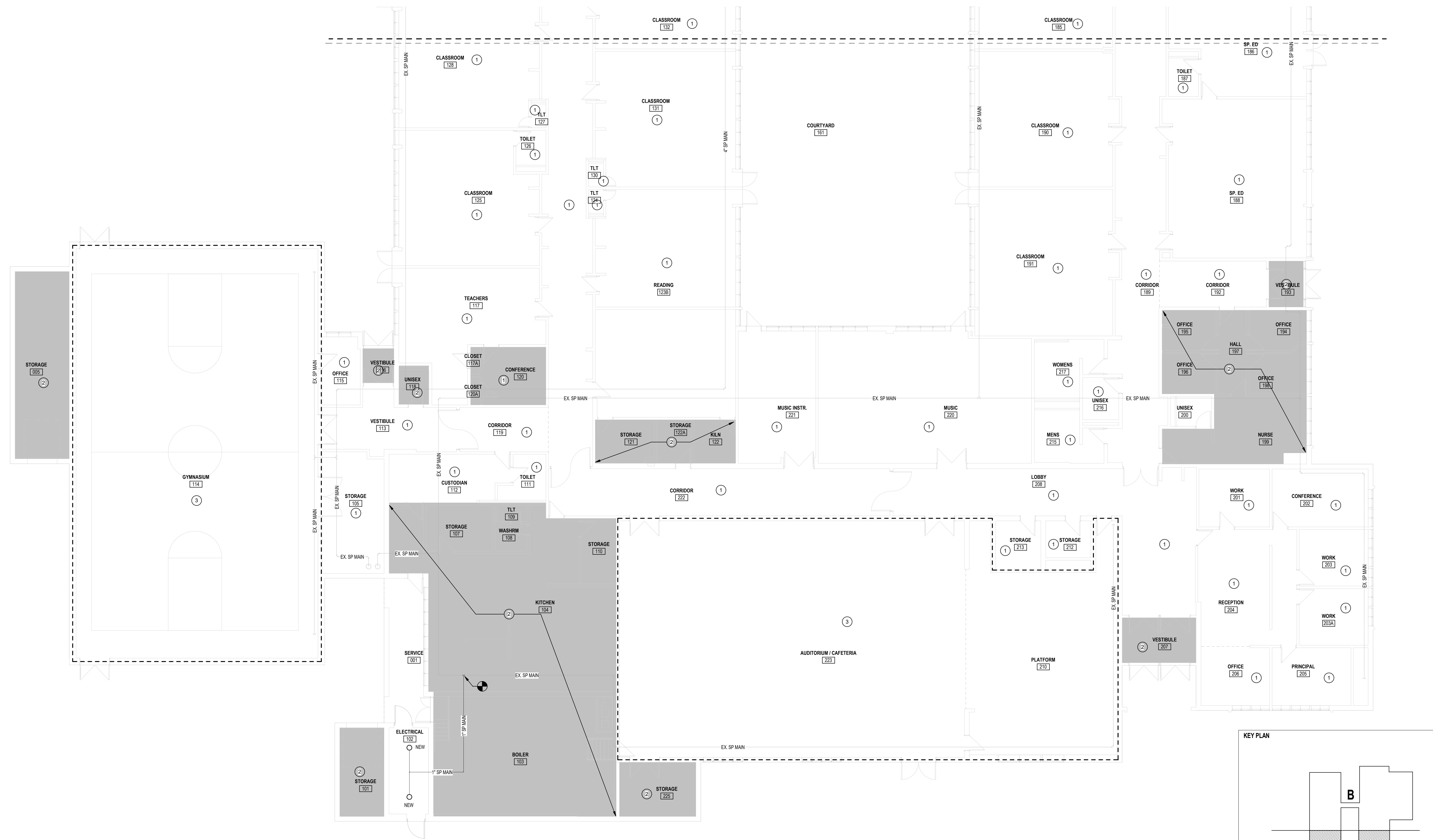
- REFER TO "FIRE PROTECTION GENERAL NOTES" ON DWG. #P001 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
- BEFORE SUBMITTING BID, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH THEIR WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
- MODIFICATION TO EXISTING SPRINKLER PIPING SYSTEM, MUST BE CONFIRMED BY HYDRAULIC CALCULATIONS, PERFORMED BY THE CONTRACTOR'S LICENSE PROFESSIONAL ENGINEER AND APPROVAL MUST BE GAINED BEFORE COMMENCING INSTALLATION OF WORK.

FIRE PROTECTION GENERAL NOTES

- ACCESS TO AND CLEARANCES AROUND FIRE SPRINKLER EQUIPMENT SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION REQUIREMENTS. CONSULT ENGINEER WHERE SPACE APPEARS INADEQUATE DUE TO ARCHITECTURAL CHANGES, EQUIPMENT LAYOUT CHANGES, OR FIELD CONDITIONS. DO NOT COVER, OBSCURE OR BLOCK ACCESS TO EQUIPMENT, VALVES, ETC.
- CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL EXISTING FIRE PROTECTION EQUIPMENT BEFORE BEGINNING DESIGN WORK AND HYDRAULIC CALCULATIONS.
- EXISTING SPRINKLER MAINS TO REMAIN. PROVIDE FOR ALL REWORKING REQUIRED TO ACCOMMODATE NEW CONSTRUCTION AND MEP SYSTEMS.
- THE BUILDING MUST BE PROTECTED BY THE SPRINKLER SYSTEM DURING CONSTRUCTION AT ALL TIMES. THE EXISTING SPRINKLER SYSTEM IN RENOVATED AREAS SHALL REMAIN ACTIVE DURING INSTALLATION OF NEW SPRINKLERS AND INSTALLATION OF NEW SYSTEMS OF OTHER TRADES. THE CONTRACTOR SHALL MODIFY EXISTING SPRINKLER SYSTEM (WITH UPRIGHT SPRINKLER HEADS WHERE CEILING MUST BE REMOVED) AS NECESSARY TO ALLOW INSTALLATION OF NEW MECHANICAL AND ELECTRICAL SYSTEMS WHILE MAINTAINING PROPER FLOOR COVERAGE IN ACCORDANCE WITH NFPA #13. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY AUTHORITY HAVING JURISDICTION PRIOR TO ANY SHUT DOWN OF SPRINKLER SYSTEM.

FIRE PROTECTION GENERAL DEMOLITION NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXTENT OF CEILING REMOVALS AND REPLACEMENTS. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR EXTENT OF WALL RENOVATIONS, PATCHING AND FINISHES.
- CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS BEFORE STARTING ANY WORK AND FIELD VERIFY ALL LOCATIONS, DIMENSIONS, ETC.
- CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND REPAIR OF EXISTING WALLS / CEILING TO ACCOMPLISH THE WORK INDICATED. CONTRACTOR SHALL COORDINATE THIS WORK WITH GENERAL CONTRACTOR.
- ADD GATE VALVES WITH SUPERVISORY SWITCHES AT ALL LOCATIONS WHERE THE SOURCE WILL BE USED TO FEED NEW PIPING TO MINIMIZE SHUTDOWNS.



1 PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - AREA A
1/8" = 1'-0"

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REVISIONS	NO	DATE	DESCRIPTION

Designed:	MK
Drawn:	MK
Reviewed:	JVCB
Project No.:	230103
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - AREA B
Sheet No.:	

FIRE PROTECTION KEY NOTES

- EXISTING SPRINKLER HEADS, AND ASSOCIATED SPRINKLER MAINS & BRANCH PIPING TO REMAIN IN THESE AREAS. COORDINATE SPRINKLER LOCATIONS WITH CEILING MOUNTED DEVICES AND EQUIPMENT. ADJUST OTHER DEVICE LOCATIONS AS REQUIRED TO ELIMINATE SPRINKLER CONFLICTS WHILE MAINTAINING PROPER SPACING AND COVERAGE, PER NFPA 13.
- AREA NOT IN SCOPE

DRAWING DESIGN NOTES

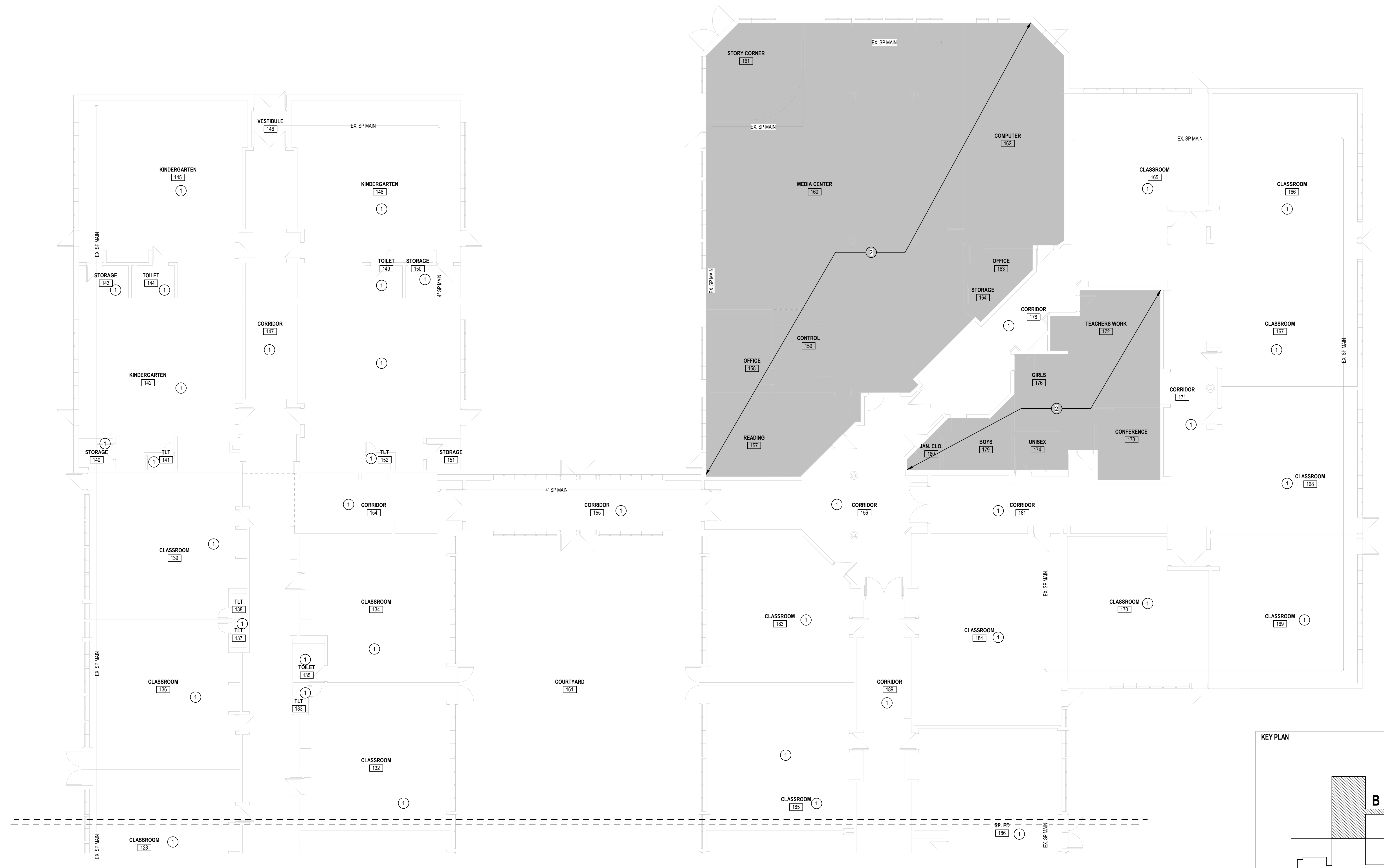
- REFER TO "FIRE PROTECTION GENERAL NOTES" ON DWG. #F001 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
- BEFORE SUBMITTING BID, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH THEIR WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
- MODIFICATION TO EXISTING SPRINKLER PIPING SYSTEM, MUST BE CONFIRMED BY HYDRAULIC CALCULATIONS, PERFORMED BY THE CONTRACTOR'S LICENSED PROFESSIONAL ENGINEER AND APPROVAL MUST BE GAINED BEFORE COMMENCING INSTALLATION OF WORK.

FIRE PROTECTION GENERAL NOTES

- ACCESS TO AND CLEARANCES AROUND FIRE SPRINKLER EQUIPMENT SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION REQUIREMENTS. CONSULT ENGINEER WHERE SPACE APPEARS INADEQUATE DUE TO ARCHITECTURAL CHANGES, EQUIPMENT LAYOUT CHANGES, OR FIELD CONDITIONS. DO NOT COVER, OBSCURE OR BLOCK ACCESS TO EQUIPMENT VALVES, ETC.
- CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL EXISTING FIRE PROTECTION EQUIPMENT BEFORE BEGINNING DESIGN WORK AND HYDRAULIC CALCULATIONS.
- EXISTING SPRINKLER MAINS TO REMAIN. PROVIDE FOR ALL REWORKING REQUIRED TO ACCOMMODATE NEW CONSTRUCTION AND MEP SYSTEMS.
- THE BUILDING MUST BE PROTECTED BY THE SPRINKLER SYSTEM DURING CONSTRUCTION AT ALL TIMES. THE EXISTING SPRINKLER SYSTEM IN RENOVATED AREAS SHALL REMAIN ACTIVE DURING INSTALLATION OF NEW SPRINKLERS AND INSTALLATION OF NEW SYSTEMS OF OTHER TRADES. THE CONTRACTOR SHALL MODIFY EXISTING SPRINKLER SYSTEM (WITH UPRIGHT SPRINKLER HEADS WHERE CEILINGS MUST BE REMOVED) AS NECESSARY TO ALLOW INSTALLATION OF NEW MECHANICAL AND ELECTRICAL SYSTEMS WHILE MAINTAINING PROPER FLOOR COVERAGE IN ACCORDANCE WITH NFPA #13. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY AUTHORITY HAVING JURISDICTION PRIOR TO ANY SHUT DOWN OF SPRINKLER SYSTEM.

FIRE PROTECTION GENERAL DEMOLITION NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXTENT OF CEILING REMOVALS AND REPLACEMENTS. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR EXTENT OF WALL RENOVATIONS, PATCHING AND FINISHES.
- CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS BEFORE STARTING ANY WORK AND FIELD VERIFY ALL LOCATIONS, DIMENSIONS, ETC.
- CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND REPAIR OF EXISTING WALLS / CEILINGS TO ACCOMPLISH THE WORK INDICATED. CONTRACTOR SHALL COORDINATE THIS WORK WITH GENERAL CONTRACTOR.
- ADD GATE VALVES WITH SUPERVISORY SWITCHES AT ALL LOCATIONS WHERE THE SOURCE WILL BE USED TO FEED NEW PIPING TO MINIMIZE SHUTDOWNS.



1 PARTIAL FIRST FLOOR FIRE PROTECTION PLAN - AREA B
1/8" = 1'-0"

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MECHANICAL GENERAL NOTES

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FOLLOWING OWNERS RULES AND STANDARDS PRIOR TO BID, WORK AND COMPLETION OF PROJECT.
4. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
5. DUCTWORK AND PIPING LAYOUTS ARE SCHEMATIC AND ARE INTENDED TO SHOW GENERAL ARRANGEMENT, SIZE AND CAPACITY AND DO NOT INDICATE WHICH DUCT OR PIPE IS ABOVE OR BELOW THE OTHER. ALL OFFSETS ARE NOT NECESSARILY SHOWN. THE MC SHALL ARRANGE AND COORDINATE THE WORK, PROVIDE NECESSARY OFFSETS AND FITTINGS TO AVOID CONFLICT WITH OTHER MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL SERVICES AND STRUCTURAL AND ARCHITECTURAL ELEMENTS WITHOUT ADDITIONAL COST TO THE OWNER. IF AREAS OF CONFLICT ARE ENCOUNTERED, THE MC SHALL SUBMIT RECOMMENDATIONS FOR CORRECTIVE ACTION TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO WORK BEING PERFORMED.
6. ALL HVAC SYSTEMS MOVING AIR IN EXCESS OF 2,000 CFM SHALL BE PROVIDED WITH A DUCT MOUNTED SMOKE DETECTOR MOUNTED IN THE SUPPLY & RETURN AIR STREAM IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE'S MECHANICAL CODE. WHERE THE SMOKE DETECTOR IS MOUNTED TO THE OUTDOORS, THE DETECTOR HEAD SHALL BE MOUNTED IN AN APPROVED WEATHERPROOF ENCLOSURE. THE DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY DIV. 27 AND MOUNTED BY DIV. 23. PROVIDE AUXILIARY CONTACTS FOR ALL AIR-HANDLING UNIT FAN MOTOR STARTERS AND THEIR RESPECTIVE SMOKE DETECTORS FOR SHUT-DOWN OF FANS UPON SENSING OF THE PRODUCTS OF COMBUSTION. WHERE SMOKE DETECTORS ARE FACTORY-INSTALLED IN THE MECHANICAL EQUIPMENT, MEANS SHALL BE PROVIDED BY DIV. 28 FOR INTEGRATION WITH THE CENTRAL FIRE ALARM SYSTEM. THE MC SHALL COORDINATE WITH DIV. 28.
7. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
8. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.
9. MAINTAIN A MINIMUM OF 7'-6" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
10. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK OR PIPING INSULATION IS APPLIED.
11. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
12. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
13. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
14. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS, COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
15. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 26 OF THE SPECIFICATION.
16. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK OR PIPING, COORDINATE DUCTWORK AND PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE PRIOR TO FABRICATION OF DUCTWORK, CUTTING OF PIPING, OR FABRICATION OF BEAMS.
17. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTORS RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.
18. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.
19. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. ALL STEEL SHALL BE GALVANIZED WITH (2) COATS OF A RUST PROHIBITIVE PRIMER.
20. WHERE ANY MECHANICAL COMPONENTS REQUIRING MAINTENANCE OR ADJUSTMENT, (I.E. VOLUME & CONTROL DAMPERS, VALVES, PIPING SPECIALTIES, FIRE, SMOKE & COMBINATION FIRE/SMOKE DAMPERS, MECHANICAL EQUIPMENT, ETC.) ARE LOCATED IN INACCESSIBLE AREAS, FURNISH APPROPRIATELY SIZED ACCESS DOORS OR PANELS AND TURN OVER TO THE GENERAL CONTRACTOR (GC) FOR INSTALLATION. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GC FOR THE PROPER LOCATIONS.
21. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.
22. SEISMICALLY RESTRAIN ALL MECHANICAL EQUIPMENT, PIPING AND DUCT AS REQUIRED BY CODE.
23. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING AND DUCT SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
24. UNLESS OTHERWISE NOTED, ELEVATIONS AS SHOWN ON THE DRAWINGS FOR PIPING ARE TO THE CENTERLINE OF ALL PRESSURE PIPING AND TO THE INVERT OF ALL GRAVITY PIPING. ELEVATIONS AS SHOWN ON THE DRAWINGS FOR DUCTWORK ARE TO BE THE "BOTTOM OF DUCT" (BOD).
25. OTHERWISE NOTED, ALL PIPING AND DUCTS ARE OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB WITH SPACE FOR INSULATION IF REQUIRED.
26. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
27. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
28. UNLESS OTHERWISE NOTED, THE LOCATION OF LIGHTING AND SPRINKLER HEADS TAKES PRECEDENCE OVER THE LOCATIONS OF REGISTER, GRILLES & DIFFUSERS (RGDs). ALSO, CONTRACTOR SHALL COORDINATE WITH OWNER SUPPLIED AND/OR INSTALLED EQUIPMENT. COORDINATION DRAWINGS MUST BE SUBMITTED BEFORE ANY MECHANICAL, PLUMBING, FIRE PROTECTION EQUIPMENT IS INSTALLED. IF NOT, THE MECHANICAL CONTRACTOR WILL BE REQUIRED TO REMOVE/RELOCATE AT THEIR EXPENSE.
29. PROVIDE CABLE OPERATED VOLUME DAMPERS AT ALL LOCATIONS WHERE THE DAMPER IS IN AN INACCESSIBLE LOCATION AND ACCESS DOORS CANNOT BE PROVIDED. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF THE OPERATORS TO ALLOW FOR CONVENIENT OPERATION.
30. ROOM TEMPERATURE, HUMIDITY & CARBON DIOXIDE SENSORS SHALL BE MOUNTED TO THE WALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATIONS INSTRUCTIONS. THE SENSORS SHALL BE MOUNTED AT A HEIGHT THAT SATISFIES THE LATEST ANSI 117.1 REQUIREMENTS. COORDINATE SENSOR LOCATIONS W/ LIGHT SWITCHES AND OTHER DEVICES THAT ARE BY OTHER SECTIONS/DIVISIONS. IN AREAS THAT ARE SUBJECT TO PHYSICAL ABUSE (I.E. GYMNASIUM, ETC.), PROVIDE A PROTECTIVE ENCLOSURE THAT WILL NOT AFFECT THE DEVICES PERFORMANCE.
31. WHERE AUTOMATIC TEMPERATURE CONTROL'S DEVICES ARE TO BE MOUNTED TO CONCRETE OR MASONRY WALLS, THEY SHALL BE SURFACE MOUNTED, RUN THE WIRING IN METALLIC CONDUIT CONCEALED IN THE BLOCK WALLS. WHERE CONDUIT RUNS CANNOT BE CONCEALED, SURFACE MOUNT AND PAINT THE CONDUIT TO MATCH THE SURFACE IT IS INSTALLED ON, COORDINATE COLOR WITH ARCHITECTS.
32. PROVIDE A FLEXIBLE DUCT SECTION OR FLEXIBLE PIPING EXPANSION LOOPS, AT ALL LOCATIONS WHERE DUCTWORK AND PIPING CROSS-BUILDING EXPANSION/SEISMIC JOINTS. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL LOCATIONS ON ARCH. DRAWINGS, SUPPORT DUCT AND PIPING ON BOTH SIDES OF THE JOINT. ALLOW FOR A MIN. OF 2" OF MOVEMENT IN ANY DIRECTION.
33. PROVIDE GALV. SCH. 40 PIPE SLEEVES AT ALL WALL AND FLOOR PENETRATIONS. SLEEVES TO BE WATERPROOF AT ALL BELOW GRADE OR SLAB-ON-GRADE PENETRATIONS. REFER TO M500 SERIES DETAILS AND DIV. 23 & 07 SPECIFICATIONS.
34. FIRE SEAL AROUND ALL DUCT AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. COORDINATE WITH ARCH. DWGS. FOR ASSEMBLY TYPES AND LOCATIONS. PROVIDE ALL NECESSARY MATERIAL COMPONENTS AND INSTALL IN STRICT ACCORDANCE WITH U.I. REQUIREMENTS BASED ON THE ASSEMBLY'S COMPOSITION. REFER TO DIV. 23 SPECIFICATIONS AND DIV. 07 SPEC. FOR ADDITIONAL INFORMATION.
35. HANGERS FOR PIPES, DUCTS, CONDUITS, PANELS, TRANSFORMERS, MECHANICAL AND PLUMBING EQUIPMENT, ETC., ARE INTENDED TO BE SUPPORTED BY MISC. GALV. STEEL ANGLES OR CHANNELS OR SIMILAR DEVICES MEETING MSS STANDARDS AND SECURELY ATTACHED TO BUILDING STRUCTURAL STEEL COMPONENTS. IT IS NOT INTENDED FOR HANGERS TO BE PRIMARILY SUPPORTED FROM THE FLOOR SLAB. WHERE UNAVOIDABLE, REFER TO DIV. 05, STEEL DECKING, FOR REQUIREMENTS PERTAINING TO HANGERS SUPPORTED BY THE FLOOR DECK. DO NOT INSTALL ANY HANGERS DIRECTLY TO THE ROOF DECK. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. ALL CONNECTIONS SHALL BE COORDINATED WITH GENERAL CONTRACTOR. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED.
36. FOR CEILING TYPE DIFFUSERS SHOWN IN AREAS WITHOUT CEILINGS, DO NOT USE FLEXIBLE BRANCH DUCTWORK AT ALL. RIDGELY MOUNT THE DIFFUSER TO THE BRANCH DUCT WITH AMPLIFIED STRAIGHT RUN AS INDICATED IN THE DETAIL. INSTALL ALL DIFFUSERS LEVEL WITH THE FACE PARALLEL TO THE FLOOR AT A HEIGHT THAT WILL ALLOW FOR MAX. HEADROOM. ALL DIFFUSERS WITHIN THE SAME SPACE SHALL BE MOUNTED AT THE SAME ELEVATION. MC TO COORDINATE FINAL DIFFUSER ELEVATION WITH ARCHITECT. TYPICAL.
37. PROVIDE CONDENSATE PUMPS (CPs) AT ALL HVAC EQUIPMENT USED FOR COOLING. MOUNT THE CPs TO THEIR RESPECTIVE EQUIPMENT WHERE FEASIBLE OR IN CLOSE PROXIMITY USING GALV. STEEL CHANNEL SYSTEM SECURED TO THE BUILDING STRUCTURE. THE UNIT'S CONDENSATE DISCHARGE (CD) SHALL BE PITCHED DOWNWARD, AND RUN AS SHORT AS POSSIBLE, WITHOUT ANY OBSTRUCTIONS OR LOW POINTS, TO THE CP INLET.
38. A WEATHERPROOF DUPLEX, 120V, GFCI CONVENIENCE OUTLETS SHALL BE PROVIDED AT ALL EQUIPMENT LOCATED OUTDOORS, WHERE APPLICABLE. THE OUTLETS SHALL BE FACTORY MOUNTED AND WIRED BY THE UNITS MANUFACTURER. RECEPTACLE USE SHALL BE INDEPENDENT OF UNIT OPERATION AND SHALL BE ACTIVE, EVEN IF UNIT IS DISABLED, WHERE THIS IS NOT FEASIBLE. COORDINATE WITH DIV. 26. TO PROVIDE A RECEPTACLE WITH A DEDICATED CIRCUIT, MOUNTED TO OR NEAR THE UNIT.

MECHANICAL ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like AMP, AIR CONDITIONER, ABOVE, ALTERNATING CURRENT, ADJACENT, ABOVE FINISH FLOOR, ABOVE FINISH GRADE, AIR HANDLING UNIT, AMBIENT, AUXILIARY, AUDIO VISUAL, BUILDING, BUILDING MANAGEMENT SYSTEM, BRITISH THERMAL UNIT, BRITISH THERMAL UNIT PER HOUR, CATALOGUE, CONDENSATE DRAIN, CIRCULATION FAN, CUBIC FEET PER HOUR, CUBIC FEET PER MINUTE, CHILLED WATER RETURN, CHILLED WATER SUPPLY, CAST IRON, CIRCUIT, CEILING, CLEAN OUT, CARBON MONOXIDE, CARBON DIOXIDE, COLUMN, COMMUNICATION, CONCRETE, CONNECT, CONSTRUCTION, CONTINUOUS, COEFFICIENT OF PERFORMANCE, COMPUTER ROOM AIR CONDITIONING UNIT, COOLING TOWER, CONDENSING UNIT, COLD WATER VALVED OPENING, COLD WATER, CONDENSER WATER RETURN, CONDENSER WATER SUPPLY, DEPTH, DRY BULB, DEMAND CONTROLLED VENTILATION, TELECOMMUNICATION DEMARCATION BOARD, DIAMETER, DIFFUSER, DOWN, DEDICATED OUTSIDE AIR SYSTEM, DETAIL, DRAWING, EXHAUST AIR, ENTERING AIR TEMPERATURE, ELECTRICAL CONTRACTOR, ELECTRIC DUCT HEATER, ENERGY EFFICIENCY RATIO, ELEVATION, ELECTRICAL, ELEVATOR, EMERGENCY, EQUIPMENT, EXISTING TO BE REMOVED, ENERGY RECOVERY VENTILATOR, EXTERNAL STATIC PRESSURE, EXISTING TO REMAIN, ENTERING WATER TEMPERATURE, EXHAUST, EXISTING EXPANSION, DEGREES FAHRENHEIT, FROM ABOVE, FROM BELOW, FREE AREA, FAN COIL UNIT, FIRE DAMPER, FAN POWERED VAV TERMINAL UNIT, FEET PER MINUTE, FEET, GROUND, GALLONS, GALLONS GALVANIZED, GENERAL CONTRACTOR, GENERATOR, GALLONS PER HOUR, GALLONS PER MINUTE, HEIGHT, HYDROGEN, HEAD, HORIZONTAL, HORSEPOWER, HEATING, HUMIDITY, HVAC HEATING, VENTILATION & AIR CONDITIONING, HOT WATER RETURN, HOT WATER SUPPLY, INDIVIDUAL DISTRIBUTION FRAME - DATA, INCHES, INCHES WATER COLUMN, KILOWATT AMPERES, KILOWATT, KILOWATT - HOUR.

MECHANICAL ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like LENGTH, LEAVING AIR TEMPERATURE, LATENT (BTU), POUNDS WEIGHT, LINEAR FOOT, LIGHTING, LEAVING WATER TEMPERATURE, MLI AMPS, MAXIMUM, THOUSAND BRITISH THERMAL UNIT PER HOUR, MECHANICAL CONTRACTOR, MAIN CIRCUIT BREAKER, MOTOR CONTROL CENTER, MAIN DISTRIBUTION FRAME - DATA, MECHANICAL, METHANE, MINIMUM, MISCELLANEOUS, MOUNTED, MOUNTING, METAL, MOTOR, MOTORIZED, NUMBER, NOT APPLICABLE, NORMALLY CLOSED, NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION, NATIONAL FIRE PROTECTION ASSOCIATION, NOT IN CONTRACT, NORMALLY OPEN, NITROGEN DIOXIDE, OUTSIDE AIR, OPPOSED BLADE DAMPER, ON CENTER, OCCUPANCY, OUTSIDE DIAMETER, OPENED DUCT, ORICE, PRESSURE DROP, PHOTO-ELECTRIC, PERFORATED, POWER FACTOR, PHASE, PLUMBING, POUNDS PER SQUARE INCH, POUNDS PER SQUARE INCH - ABSOLUTE, POUNDS PER SQUARE INCH - GAUGE, POLYVINYL CHLORIDE, POWER, RETURN AIR, REFLECTED CEILING PLAN, RELIEF AIR, RECEPTACLE, REFERENCE, REFRIGERATOR, REQUIRED, RELATIVE HUMIDITY, RUNNING LOAD AMPS, ROOM, REVOLUTIONS PER MINUTE, REQUIREMENT, RAINIGHT, ROOFTOP UNIT, SUPPLY AIR, SEASONAL ENERGY EFFICIENCY RATIO, SMOKE EXHAUST FAN, SENSIBLE (BTU), SHEET, SHEET METAL, STATIC PRESSURE, SPECIFICATIONS, SMOKE PURGE EXHAUST FAN, SPEAKER, SQUARE, SQUARE FEET, STANDARD, SURFACE, SWITCH, SWITCHBOARD, SWITCHGEAR, SYMMETRICAL, THERMOSTAT, TIMELOCK, TELEPHONE, TOTAL (BTU), TYPICAL, UNDERFLOOR, UNLESS OTHERWISE NOTED, VOLT, VALVE, VACUUM, VARIABLE AIR VOLUME, VERTICAL, VENT, VENTILATION, VARIABLE VOLUME TERMINAL UNIT, WATTS, WIDTH, WET BULB, WATER HEATER, WIRE MESH SCREEN, WEATHERPROOF, WEIGHT.

MECHANICAL DRAWING LIST

Table with 2 columns: SHEET NO. and SHEET TITLE. Lists sheets M001 through M002, including Mechanical Notes, Mechanical Ventilation Calculations, and Partial First Floor Mechanical Demolition and Ductwork Plans for Areas A and B.

MECHANICAL SYMBOL LEGEND

Table with 2 columns: SYMBOL and DESCRIPTION. Lists symbols for various mechanical components such as elbows, dampers, diffusers, grilles, and sensors, along with their corresponding graphical representations.

ACOUSTICS REQUIREMENTS

THIS PROJECT HAS BEEN EVALUATED BY AN ACOUSTICAL CONSULTANT. ALL DUCTWORK LENGTHS, FITTINGS AND LINING IS TO BE INSTALLED AS INDICATED IN ORDER TO ACHIEVE TARGET NOISE CRITERIA REQUIREMENTS. SCHEDULES INDICATE SOUND DATA FOR MECHANICAL EQUIPMENT. ANY MECHANICAL EQUIPMENT SUBSTITUTIONS MUST HAVE SOUND DATA EQUAL OR BELOW TO BASIS OF DESIGN EQUIPMENT IN ALL OCTAVE BANDS. IT IS ALLOWABLE FOR MODIFICATIONS TO SOUND ATTENUATORS IN ORDER TO ACHIEVE EQUIVALENT SOUND DATA. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY EQUIPMENT SUBSTITUTIONS AND PROVIDING SOUND DATA. NO MECHANICAL EQUIPMENT WILL BE APPROVED WITHOUT ASSOCIATED SOUND ATTENUATOR SUBMITTALS. REFER TO MECHANICAL SCHEDULES FOR DETAILS.



355 Research Parkway, Meriden, CT 06460, (203) 650-1000, (203) 650-2915 Fax

NORTH STRATFIELD ELEMENTARY SCHOOL, 190 PUTTING GREEN RD., FAIRFIELD, CT 06825

REVISIONS: NO DATE DESCRIPTION

Designed: R/EF, Drawn: EK, Reviewed: J/WP, Project No.: 2300053, Date: 09/29/2023, Issued for: 95% CONSTRUCTION DOCUMENTS

Title: MECHANICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS

Sheet No.

M001

ASHRAE Standard 62.1-2004-2010
By BL

System Zone Room	Occupancy Category	R _p (hr ⁻¹)	Pz (hr)	R _a (hr ⁻¹)	A _z (ft ²)	V _{oz} (cfm)	Std 170		Cooling		Heating	
							Min	Max	E _x	E _z	E _x	E _z
Alternate 1												
222 CORRIDOR	Corridor	0.00	0.00	0.08	484	40	1.00	40	1.00	40	1.00	40
221 MUSIC REHE	Music rehearsal space	10.00	14.91	0.06	420	175	1.00	175	1.00	175	1.00	175
204 RECEPTION	Office space	0.00	2.00	0.08	480	39	1.00	39	1.00	39	1.00	39
206 OFFICE	Office space	0.00	0.83	0.08	390	14	1.00	14	1.00	14	1.00	14
205 PRINCIPAL	Office space	0.00	0.04	0.08	180	16	1.00	16	1.00	16	1.00	16
202 WORK	Office space	0.00	1.05	0.08	320	26	1.00	26	1.00	26	1.00	26
203 CONFERENCE	Conference meeting	0.00	11.46	0.08	220	71	1.00	71	1.00	71	1.00	71
201 WORK	Office space	0.00	0.84	0.08	360	14	1.00	14	1.00	14	1.00	14
208 LOBBY	Corridor	0.00	0.00	0.08	890	83	1.00	83	1.00	83	1.00	83
200 MUSIC	Music rehearsal space	10.00	28.94	0.06	1,545	683	1.00	683	1.00	683	1.00	683
VMP-1	Typ. radium (dry area)	8.79	72.98	0.08	4,862	918	1.00	1,305	1.00	1,305	1.00	1,305
RTU-GYM	20.00	28.95	0.18	4,078	1,305	1.00	1,305	1.00	1,305	1.00	1,305	
203 AUDITORIUM/CAFETERIA	Auditorium seating area	0.00	288.70	0.08	3,298	1,886	1.00	1,886	1.00	1,886	1.00	1,886
210 PLATFORM	Stage, studio	10.00	85.00	0.08	1,271	828	1.00	828	1.00	828	1.00	828
101 CLOSET	Classroom (ages 5-8)	0.00	422.00	0.08	4,099	2,814	1.00	2,814	1.00	2,814	1.00	2,814
105 CLASSROOM	Classroom (ages 5-8)	0.00	18.44	0.12	777	268	1.00	268	1.00	268	1.00	268
108 SP.ED.	Classroom (ages 5-8)	0.00	18.76	0.12	790	277	1.00	277	1.00	277	1.00	277
106 CLASSROOM	Classroom (ages 5-8)	0.00	0.00	0.08	803	48	1.00	48	1.00	48	1.00	48
104 CLASSROOM	Classroom (ages 5-8)	0.00	25.12	0.12	1,095	372	1.00	372	1.00	372	1.00	372
103 CLASSROOM	Classroom (ages 5-8)	0.00	18.31	0.12	753	271	1.00	271	1.00	271	1.00	271
VMP-4	Corridor	0.00	81.62	0.11	4,067	1,296	1.00	1,296	1.00	1,296	1.00	1,296
109 CORRIDOR	Corridor	0.00	0.00	0.08	1,471	87	1.00	87	1.00	87	1.00	87
110 CORRIDOR	Corridor	0.00	0.00	0.08	162	10	1.00	10	1.00	10	1.00	10
111 HALLWAYS	Office space	0.00	2.80	0.08	538	48	1.00	48	1.00	48	1.00	48
120 ART	Art classroom	0.00	12.42	0.18	621	236	1.00	236	1.00	236	1.00	236
115 CLASSROOM	Classroom (ages 5-8)	0.00	18.30	0.12	753	271	1.00	271	1.00	271	1.00	271
113 CLASSROOM	Classroom (ages 5-8)	0.00	18.15	0.12	750	263	1.00	263	1.00	263	1.00	263
112 CORRIDOR	Corridor	0.00	0.00	0.08	280	16	1.00	16	1.00	16	1.00	16
110 OFFICE	Office space	0.00	0.03	0.08	100	9	1.00	9	1.00	9	1.00	9
112 CUSTODIAN	Office space	0.00	1.14	0.08	228	19	1.00	19	1.00	19	1.00	19

Project Name: North Stratfield Elementary School
Detail Name: N STRATFIELD ES TRC

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ASHRAE Standard 62.1-2004-2010
By BL

System Zone Room	Occupancy Category	R _p (hr ⁻¹)	Pz (hr)	R _a (hr ⁻¹)	A _z (ft ²)	V _{oz} (cfm)	Std 170		Cooling		Heating	
							Min	Max	E _x	E _z	E _x	E _z
Alternate 1												
VMP-2	Classroom (ages 5-8)	0.00	18.60	0.12	668	248	1.00	248	1.00	248	1.00	248
108 CLASSROOM	Classroom (ages 5-8)	0.00	18.00	0.12	728	270	1.00	270	1.00	270	1.00	270
107 CLASSROOM	Classroom (ages 5-8)	0.00	18.22	0.12	729	270	1.00	270	1.00	270	1.00	270
106 CLASSROOM	Classroom (ages 5-8)	0.00	19.96	0.12	763	282	1.00	282	1.00	282	1.00	282
105 CLASSROOM	Classroom (ages 5-8)	0.00	17.21	0.12	692	264	1.00	264	1.00	264	1.00	264
104 CLASSROOM	Classroom (ages 5-8)	0.00	19.98	0.12	763	282	1.00	282	1.00	282	1.00	282
103 CLASSROOM	Classroom (ages 5-8)	0.00	17.41	0.12	696	264	1.00	264	1.00	264	1.00	264
102 CLASSROOM	Classroom (ages 5-8)	0.00	0.00	0.08	487	29	1.00	29	1.00	29	1.00	29
101 CORRIDOR	Corridor	0.00	0.00	0.08	595	33	1.00	33	1.00	33	1.00	33
100 CORRIDOR	Corridor	0.00	0.00	0.08	564	34	1.00	34	1.00	34	1.00	34
VMP-5	Classroom (ages 5-8)	0.00	100.33	0.10	4,071	1,716	1.00	1,716	1.00	1,716	1.00	1,716
100 CLASSROOM	Classroom (ages 5-8)	0.00	19.44	0.12	777	288	1.00	288	1.00	288	1.00	288
109 SP.ED.	Classroom (ages 5-8)	0.00	22.32	0.12	867	303	1.00	303	1.00	303	1.00	303
108 CLASSROOM	Classroom (ages 5-8)	0.00	20.87	0.12	808	309	1.00	309	1.00	309	1.00	309
107 CORRIDOR	Corridor	0.00	0.00	0.08	1,248	75	1.00	75	1.00	75	1.00	75
106 CORRIDOR	Corridor	0.00	0.00	0.08	202	12	1.00	12	1.00	12	1.00	12
VMP-3	Classroom (ages 5-8)	0.00	62.65	0.10	3,964	1,917	1.00	1,917	1.00	1,917	1.00	1,917
105 CLASSROOM	Classroom (ages 5-8)	0.00	18.15	0.12	766	283	1.00	283	1.00	283	1.00	283
104 CLASSROOM	Classroom (ages 5-8)	0.00	18.16	0.12	766	283	1.00	283	1.00	283	1.00	283
103 CLASSROOM	Classroom (ages 5-8)	0.00	18.48	0.12	798	273	1.00	273	1.00	273	1.00	273
102 CLASSROOM	Classroom (ages 5-8)	0.00	19.15	0.12	786	283	1.00	283	1.00	283	1.00	283
VMP-4	Classroom (ages 5-8)	0.00	79.90	0.12	3,007	1,184	1.00	1,184	1.00	1,184	1.00	1,184
100 HANGING GARDEN	Classroom (ages 5-8)	0.00	22.38	0.12	895	311	1.00	311	1.00	311	1.00	311
100 CLASSROOM	Classroom (ages 5-8)	0.00	18.72	0.12	780	282	1.00	282	1.00	282	1.00	282
104 CORRIDOR	Corridor	0.00	0.00	0.08	302	21	1.00	21	1.00	21	1.00	21
VMP-7	Classroom (ages 5-8)	0.00	42.10	0.10	2,464	670	1.00	670	1.00	670	1.00	670
102 HANGING GARDEN	Classroom (ages 5-8)	0.00	22.27	0.12	897	300	1.00	300	1.00	300	1.00	300
100 HANGING GARDEN	Classroom (ages 5-8)	0.00	25.78	0.12	1,031	342	1.00	342	1.00	342	1.00	342
100 HANGING GARDEN	Classroom (ages 5-8)	0.00	25.78	0.12	1,031	342	1.00	342	1.00	342	1.00	342

Project Name: North Stratfield Elementary School
Detail Name: N STRATFIELD ES TRC

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By BL

System Zone Room	Occupancy Category	R _p (hr ⁻¹)	Pz (hr)	R _a (hr ⁻¹)	A _z (ft ²)	V _{oz} (cfm)	Std 170		Cooling		Heating	
							Min	Max	E _x	E _z	E _x	E _z
Alternate 1												
VMP-4	Corridor	0.00	0.00	0.08	484	30	1.00	30	1.00	30	1.00	30
VMP-4	Corridor	0.00	72.83	0.11	3,558	1,128	1.00	1,128	1.00	1,128	1.00	1,128

Project Name: North Stratfield Elementary School
Detail Name: N STRATFIELD ES TRC

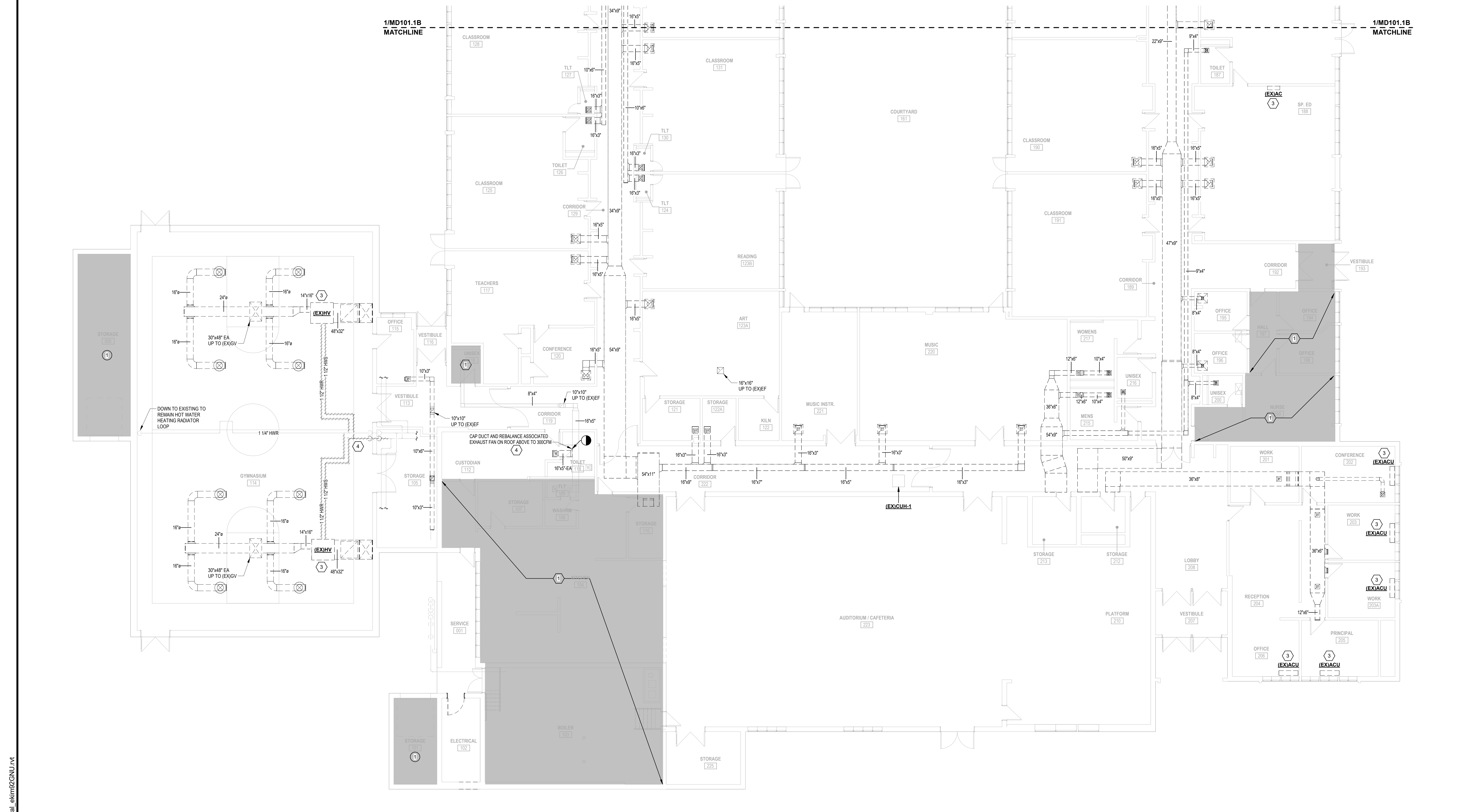
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Alternate - 1 ADR/AE Standard 62.1-2004-2027 Report Page 4 of 8

NO	DATE	DESCRIPTION

Designed: REF/EX
Drawn: EK
Reviewed: JHP
Project No.: 230053
Date: 09/29/2023
Issued for:
95% CONSTRUCTION DOCUMENTS

Title:
MECHANICAL VENTILATION CALCULATIONS & ENERGY COMPLIANCE
Sheet No.
M002

9/29/2023 12:54:56 AM C:\Users\ek\Documents\2303053-North Stratfield ES-MEP-R22-Central_ekim23GNLU.rvt



1 PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART A
1/8" = 1'-0"

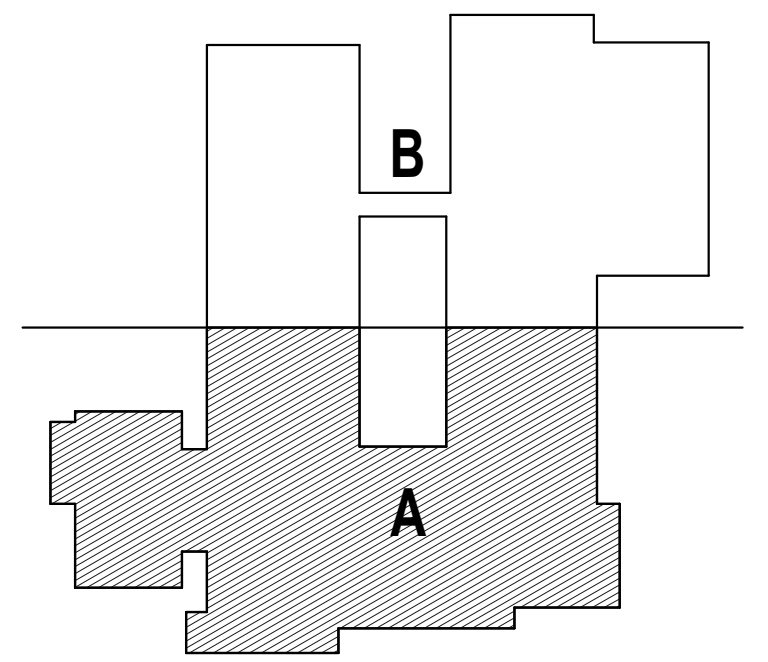
DEMOLITION PLAN GENERAL NOTES:

- THE CONTRACTOR SHALL REMOVE ALL HVAC ITEMS AS INDICATED INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: EQUIPMENT, LOW VOLTAGE WIRING, PIPING, DUCTWORK, GAS VENTS, SPECIALTIES & ACCESSORIES, HANGERS, REGISTERS, GRILLES & DIFFUSERS, CONTROL COMPONENTS, ETC.. ALL WIRING SHALL BE TERMINATED BACK TO THEIR SOURCE AND ANY GAS BRANCH PIPING SHALL BE CAPPED BACK TO THE NEAREST MAIN. REFER TO WORK BY DIV. 22 & 26 FOR ANY ADDITIONAL INFORMATION.
- ANY ROOF OPENINGS DUE TO THE REMOVAL OF ANY ROOFTOP EQUIPMENT OR RELATED APPURTENANCES THEREOF, SHALL BE STRUCTURALLY PATCHED AND THE ROOFING SEALED WEATHERTIGHT. COORDINATE WITH THE GENERAL CONTRACTOR AND MAKE THE APPROPRIATE REPAIRS TO MAINTAIN THE EXISTING ROOFING SYSTEM WARRANTY. REFER TO ARCHITECTURAL DWGS FOR ADDITIONAL INFO.
- THE CONTRACTOR SHALL VISIT THE SITE AND ADJOINING AREAS, EXAMINE, AND BE FAMILIAR WITH ALL EXISTING CONDITIONS AND DETERMINE THE IMPACT ON THE EXECUTION OF WORK OF THIS CONTRACT. THE CONTRACTOR SHALL PERFORM THIS PRIOR TO THE SUBMISSION OF HIS PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- WHERE THE PROJECT REQUIRES PHASING, IT MAY BE NECESSARY FOR CORRESPONDING PHASED DEMOLITION WORK TO BE PERFORMED. CARE MUST BE TAKEN TO INSURE ACTIVE AREAS OUTSIDE THE CURRENT DEMOLITION PHASE REMAIN UNAFFECTED BY THIS WORK WITH NO INTERRUPTION OF SERVICES. INCLUDE ALL NECESSARY PREMIUM TIME TO PERFORM EACH PHASE OF DEMOLITION. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION THAT DEFINES THE PROJECT PHASING.
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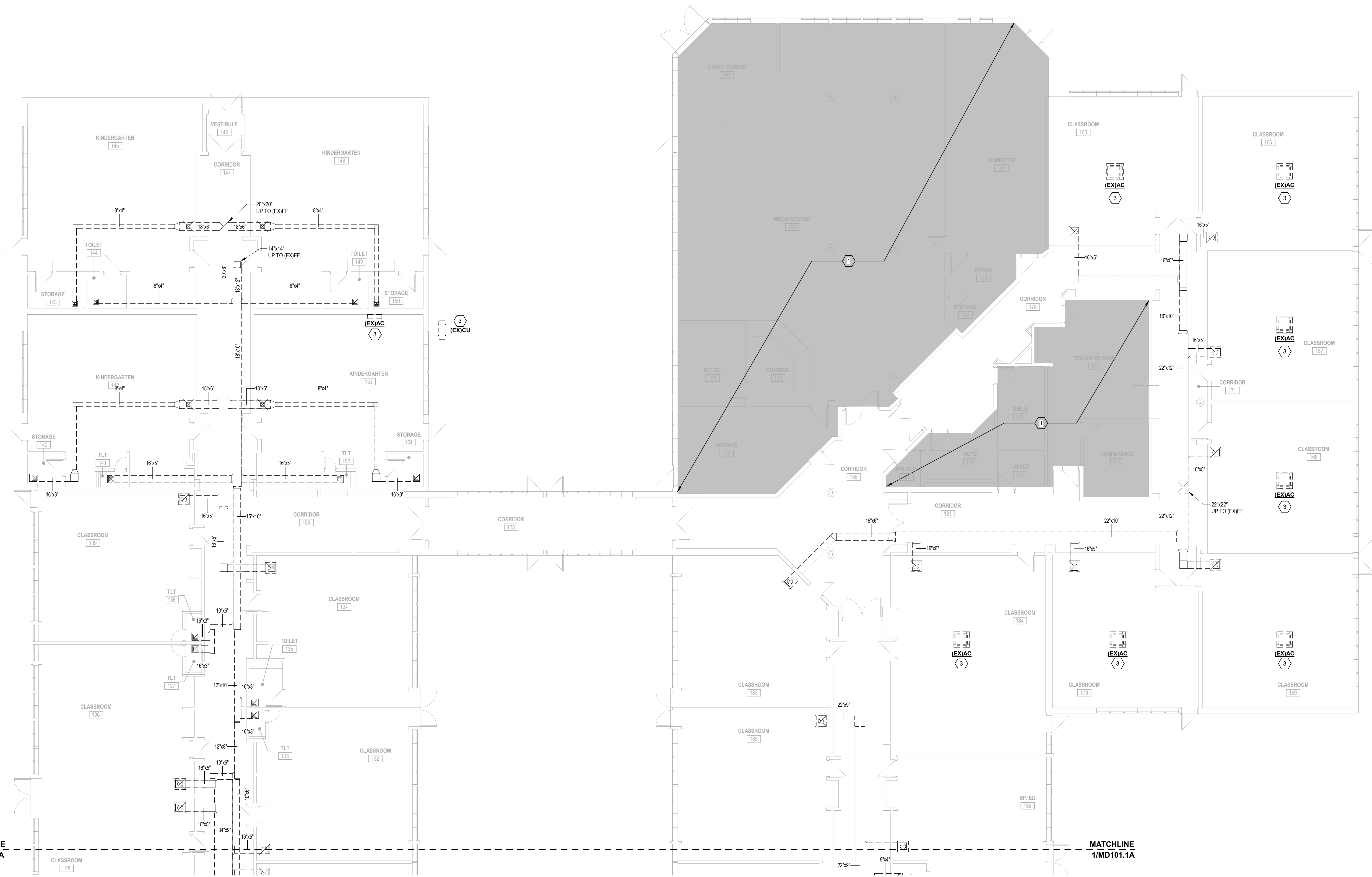
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KEY PLAN



REVISIONS	DESCRIPTION
NO	DATE

Designed:	RF/EX
Drawn:	EX
Reviewed:	JW/P
Project No.:	230105
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART B
Sheet No.:	



1 PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN - PART B
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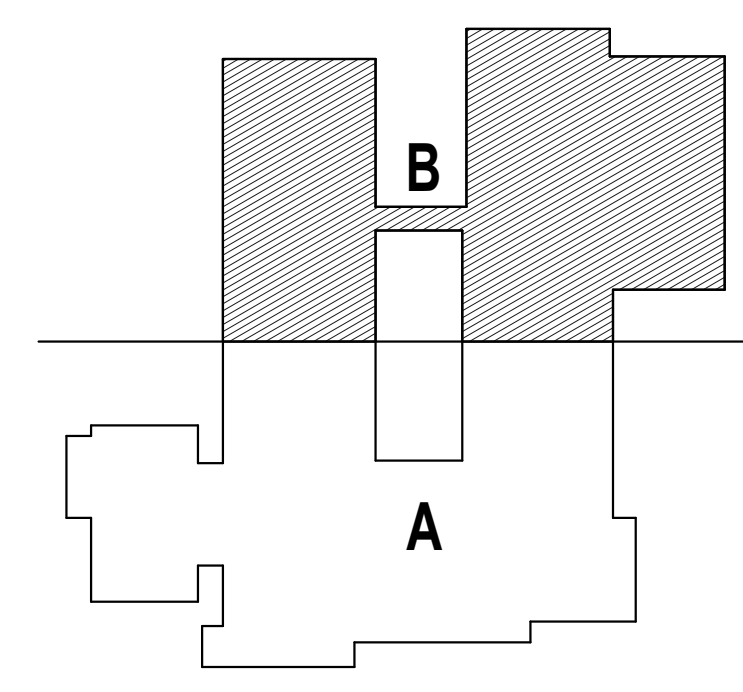
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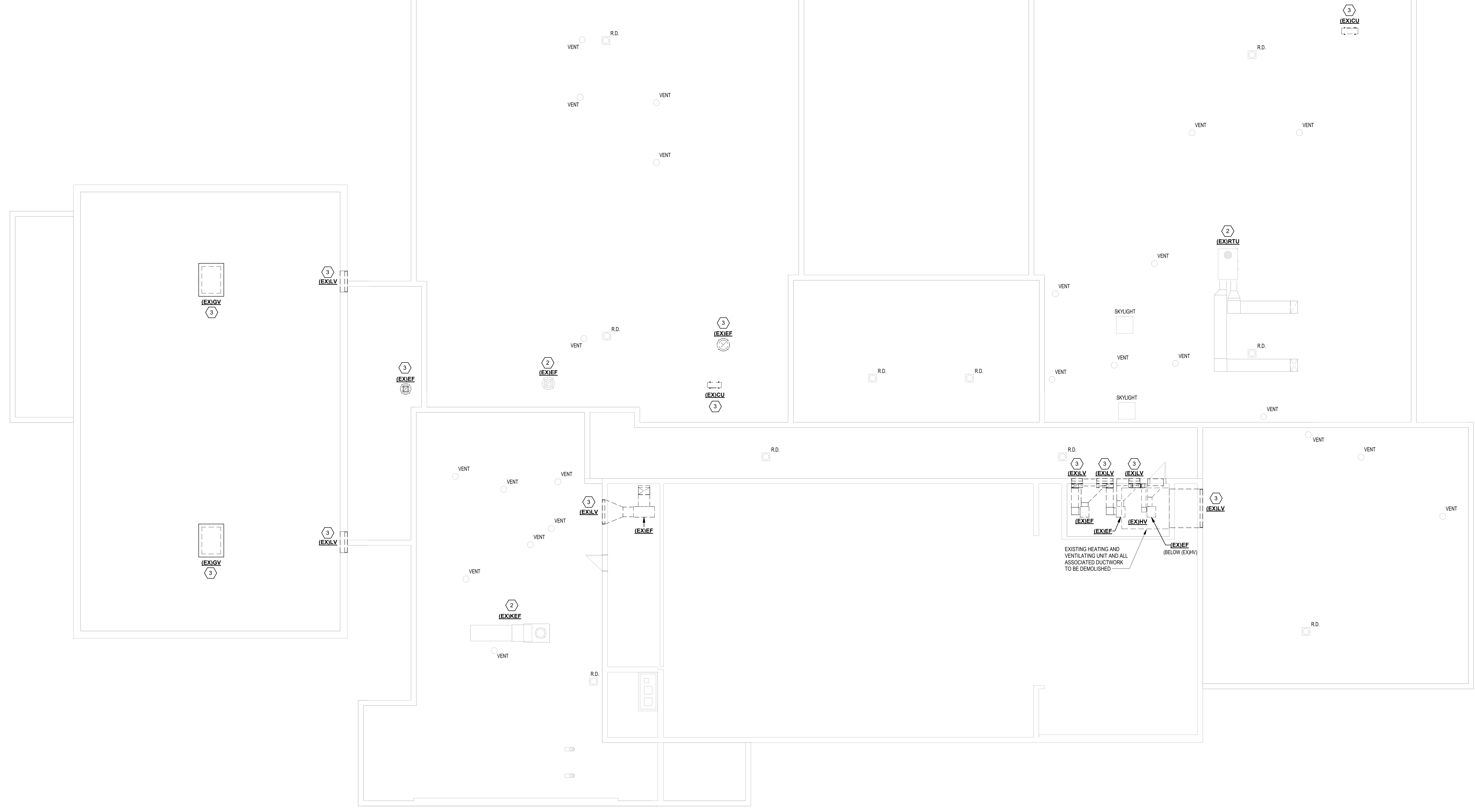
KEY PLAN



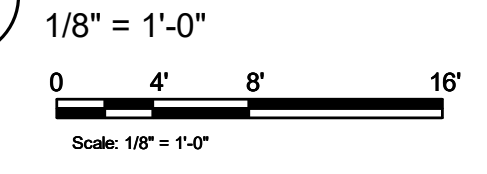
KEY PLAN

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1 PARTIAL ROOF MECHANICAL DEMOLITION PLAN - PART A



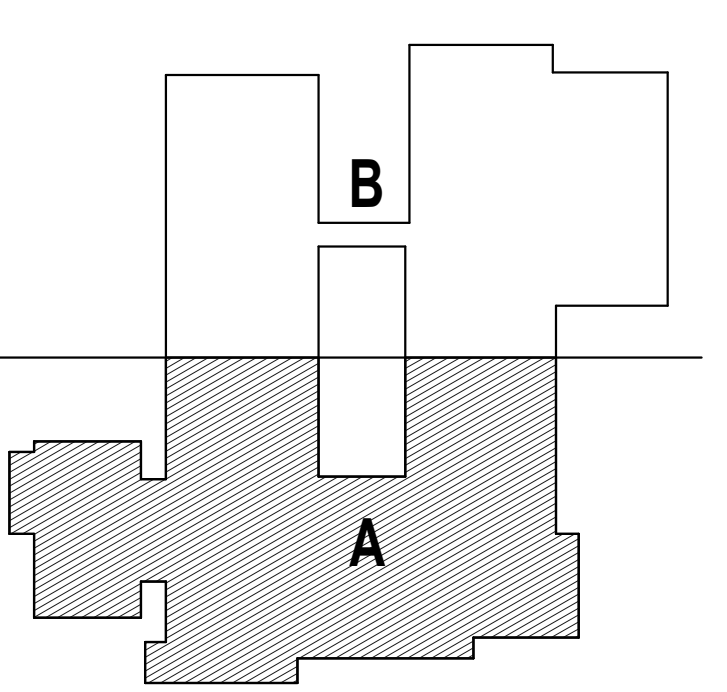
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KEY PLAN



355 Research Parkway
Meriden, CT 06460
(203) 633-1000
(203) 633-2915 Fax

NORTH STRATFIELD ELEMENTARY SCHOOL
190 PUTTING GREEN RD,
FAIRFIELD, CT 06825

NO	DATE	DESCRIPTION

Designed: RFEK
 Drawn: EK
 Reviewed: JWF
 Project No.: 230305
 Date: 09/20/23
 Issued for:
 95% CONSTRUCTION DOCUMENTS
 Title:
 PARTIAL ROOF MECHANICAL DEMOLITION PLAN - PART A
 Sheet No.:

MD101.2A



1 PARTIAL ROOF MECHANICAL DEMOLITION PLAN - PART B
1/8" = 1'-0"
0 4' 8' 16'
Scale: 1/8" = 1'-0"

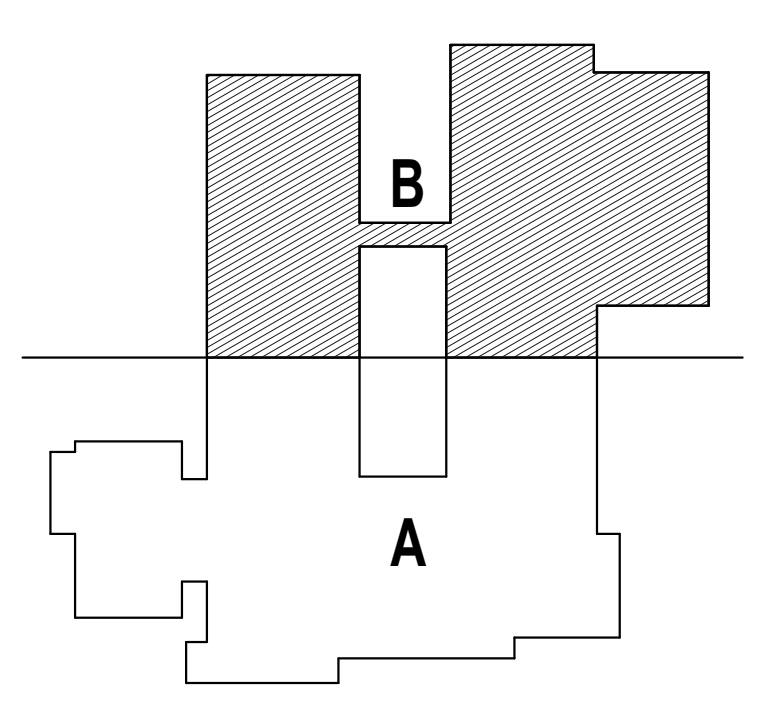
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- ALL NECESSARY CUTTING AND PATCHING TO ACCOMMODATE THE NEW HVAC WORK SHALL BE PERFORMED BY THIS CONTRACTOR AND COORDINATED WITH BUILDING MANAGEMENT SO AS TO MINIMIZE DISRUPTION OF EXISTING TENANTS AND SERVICES. RESTORE ALL ITEMS TO MATCH EXISTING CONDITIONS.
- PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING DUCTWORK, PIPING, CONDUITS, LOW VOLTAGE CABLING AND DEVICES TO REMAIN, WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS.

DEMOLITION PLAN KEY NOTES:

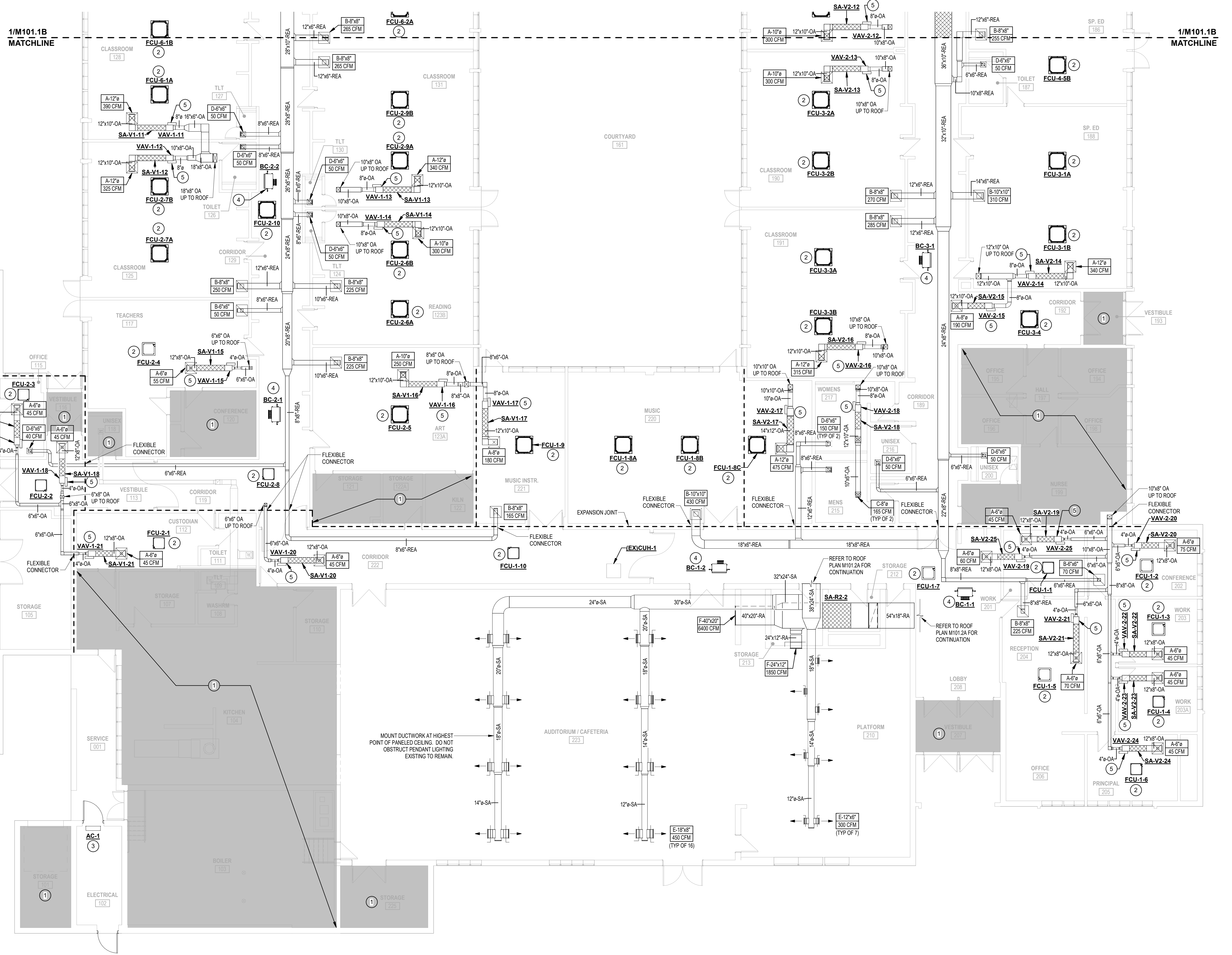
- ALL EXISTING HVAC SYSTEMS AND APPURTENANCES THEREOF IN THIS AREA TO REMAIN INCLUDING, BUT NOT LIMITED TO: EQUIPMENT, DUCTWORK, PIPING, CONTROLS, DAMPERS, WIRING, AIR TERMINALS, HANGERS, SUPPORTS, ETC. ANY SYSTEMS SERVING THESE AREAS SHALL BE MAINTAINED DURING DEMOLITION. UON.
- EXISTING MECHANICAL EQUIPMENT / DUCTWORK / PIPING / CONTROLS TO REMAIN, INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, CONTROLS, DAMPERS, WIRING, AIR TERMINALS, HANGERS, CURBS, SUPPORTS, ETC. REMOVE ASSOCIATED PIPING BACK TO MAIN BRANCH AND CAP. ROOF/WALL OPENINGS DUE TO REMOVED COMPONENTS SHALL BE SEALED. REFER TO ARCHITECTURAL DWGS FOR ADDITIONAL INFO. ANY RELATED WIRING, LOW & LINE, SHALL BE TERMINATED BACK TO THEIR SOURCE. REFER TO WORK BY DIV. 26 FOR ADDITIONAL INFO.
- REMOVE EXISTING DUCTWORK/PIPPING AS SHOWN. PROVIDE PERMANENT CAP DURING CONSTRUCTION AT EXISTING DUCTWORK/PIPPING TO REMAIN.

KEY PLAN



REVISIONS	DESCRIPTION	NO	DATE

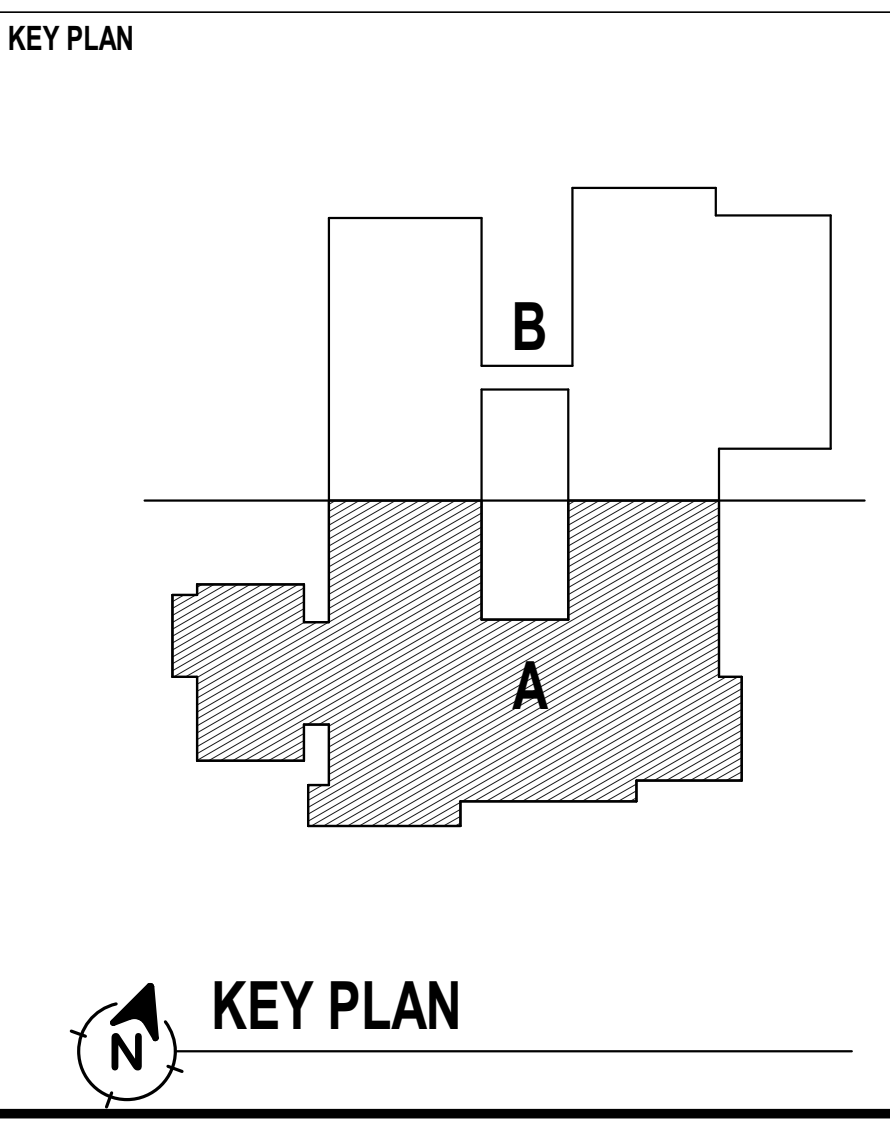
Designed:	RF/EX
Drawn:	EX
Reviewed:	JW/P
Project No.:	230105
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	PARTIAL ROOF MECHANICAL DEMOLITION PLAN - PART B
Sheet No.:	MD101.2B



1 FIRST FLOOR MECHANICAL PLAN - AREA A
1/8" = 1'-0"
Scale: 1/8" = 1'-0"

- MECHANICAL GENERAL NOTES:**
- PROVIDE NECESSARY LOW VOLTAGE WIRING, POWER SUPPLIES TO CONTROLLER & TRANSFORMERS TO SUPPLY POWER TO THE REMOTE SENSORS AS REQUIRED BY MANUFACTURER.
 - PROVIDE NECESSARY ACCESS AND CLEARANCES AROUND ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATION AND/OR INSTALLATION INSTRUCTIONS.
 - VERIFY EXACT LOCATION OF EQUIPMENT IN FIELD AND COORDINATE WITH ALL TRADES.
 - FIRE SPRINKLERS AND LIGHTS TAKE PRECEDENCE OVER DIFFUSERS AND CASSETTES. CONTRACTOR TO VERIFY LOCATIONS IN FIELD.
 - ALL COMBINATION FIRE/SMOKE, SMOKE, AND FIRE DAMPERS SHALL BE PROVIDED WITH DUCT ACCESS DOORS OF ADEQUATE SIZE TO PROVIDE SERVICE AND MAINTENANCE, WHERE THE DAMPERS ARE IN INACCESSIBLE LOCATIONS. COORDINATE THE LOCATIONS OF THE DAMPERS AND THEIR RESPECTIVE DUCT ACCESS DOORS WITH THE GENERAL CONTRACTOR TO PROVIDE ACCESS DOORS IN FINISHED SURFACES - MIN. 18"x18" WHERE THE CONSTRUCTION ASSEMBLY HAS A FIRE RATING. THE ACCESS DOORS SHALL BE RATED TO MATCH.
 - ALL PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. REFER TO DETAILS ON THE M5 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE CABLE OPERATED VOLUME DAMPERS (COV) AT ALL LOCATIONS WHERE THE DAMPER IS LOCATED BEHIND AN INACCESSIBLE ASSEMBLY. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF THE OPERATORS TO ALLOW FOR CONVENIENT OPERATION. INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - SPACE THERMOSTATS/SENSORS/CONTROLLERS SHALL BE INSTALLED AT 48" AFF. LOCATE SENSORS AND THERMOSTATS SUCH THAT THEY ARE ACCESSIBLE, PROTECTED, AND IN AN AREA OF UNOBSTRUCTED AIR CIRCULATION.
 - ALL PIPING IS DIAGRAMMATICAL. EXACT PIPE ROUTING AND LENGTH TO BE VERIFIED IN FIELD. FINAL REPRESENTATIVE PIPING SIZES SHALL BE BY UNIT MANUFACTURER BASED ON APPROVED COORDINATION DRAWINGS.
 - PROVIDE A FLEXIBLE DUCT CONNECTOR OR PIPING EXPANSION LOOP WHERE DUCT PIPE CROSSES AN EXISTING BUILDING EXPANSION JOINT.
 - INSTALL SMOKE DETECTORS IN ACCORDANCE WITH LOCAL CODES AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. IN LIEU OF ADEQUATE SPACE REQUIRED FOR THE INSTALLATION OF THE DETECTOR, MULTIPLE SMOKE DETECTORS MAY BE REQUIRED BASED ON THE LAYOUT OF THE DUCTWORK. MECH CONTRACTOR TO COORDINATE WITH WORK BY DIV 26. PROVIDE WEATHERPROOF SMOKE DETECTORS AT ALL LOCATIONS WHERE EXPOSED TO THE ATMOSPHERE. COORDINATE ALL SHUT DOWNS OF EXISTING SYSTEMS WITH THE BUILDING OWNER.

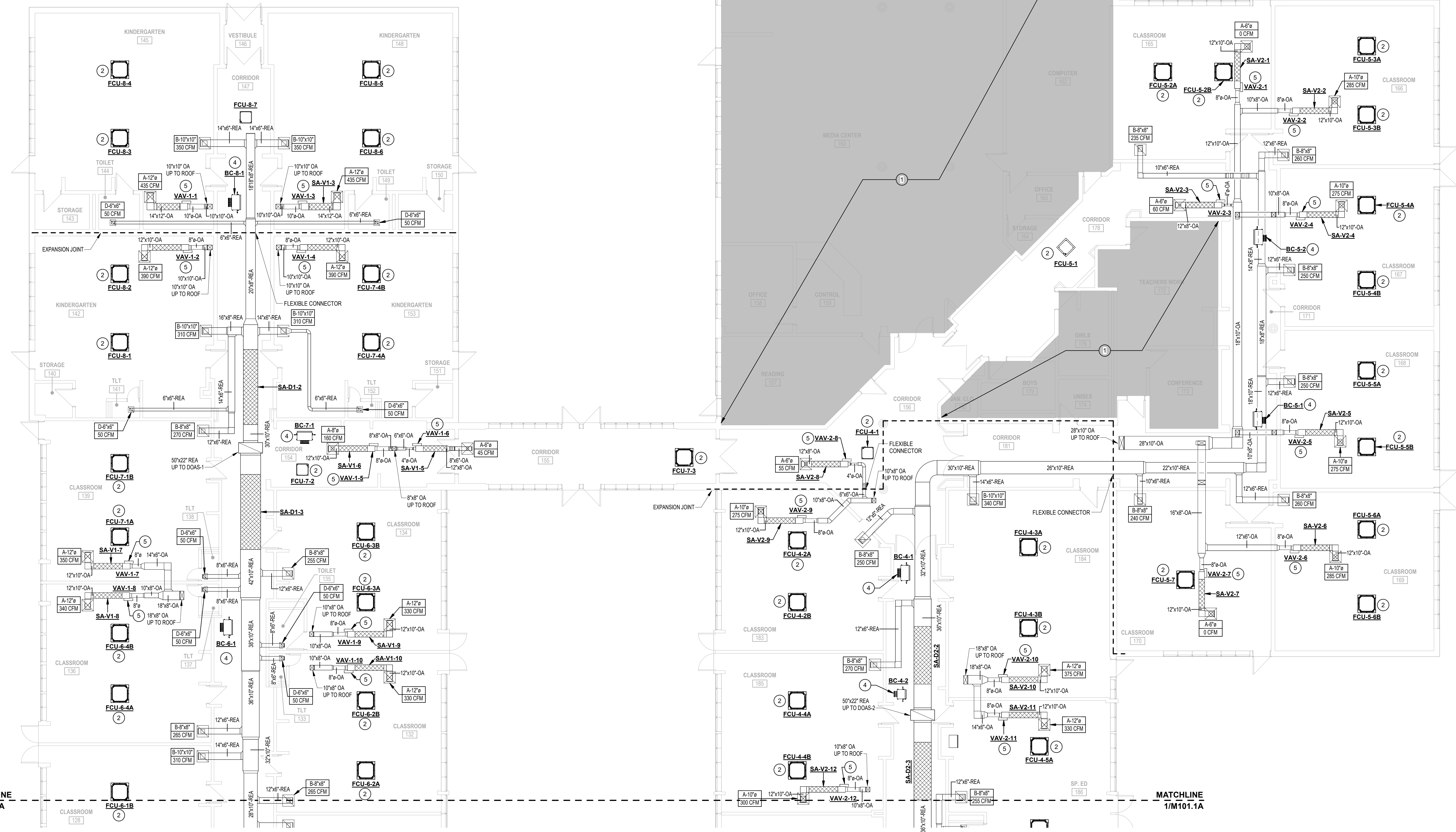
- MECHANICAL DUCTWORK KEY NOTES:**
(NOT ALL KEY NOTES APPEAR ON THIS SHEET)
- THE EXISTING HVAC EQUIPMENT AND ITS APPURTENANCES THEREOF SHALL REMAIN.
 - CEILING RECESSED CASSETTE FAN COIL UNIT. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL ON THE M5 SERIES DWGS. COORDINATE FINAL LOCATION OF UNIT WITH EXISTING CONDITIONS AND ALL TRADES.
 - MOUNT INDOOR DUCTLESS AC UNIT HIGH ON THE WALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE FINAL LOCATION OF UNIT WITH EXISTING CONDITIONS AND ALL TRADES.
 - VRF BRANCH CIRCUIT CONTROLLER TO BE INSTALLED ABOVE CEILING IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ACCESS CLEARANCES AS REQUIRED. REFER TO DETAIL ON THE M5 SERIES DWGS. COORDINATE FINAL LOCATION OF UNIT AND ORIENTATION OF CONTROL BOX WITH EXISTING CONDITIONS AND ALL TRADES.
 - SINGLE DUCT VARIABLE AIR VOLUME (VAV) BOX. INSTALL BOX ABOVE THE CEILING IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ACCESS CLEARANCES AS REQUIRED. REFER TO DETAIL ON THE M5 SERIES DWGS. COORDINATE FINAL LOCATION OF UNIT AND ORIENTATION OF CONTROL BOX WITH EXISTING CONDITIONS AND ALL TRADES.



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REVISIONS	DESCRIPTION	NO	DATE

Designed:	RJ/EX
Drawn:	JK
Reviewed:	JW/P
Project No.:	230053
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	PARTIAL FIRST FLOOR MECHANICAL DUCTWORK PLAN - AREA B
Sheet No.:	M101.1B



1 FIRST FLOOR MECHANICAL PLAN - AREA B
1/8" = 1'-0"
Scale: 1/8" = 1'-0"

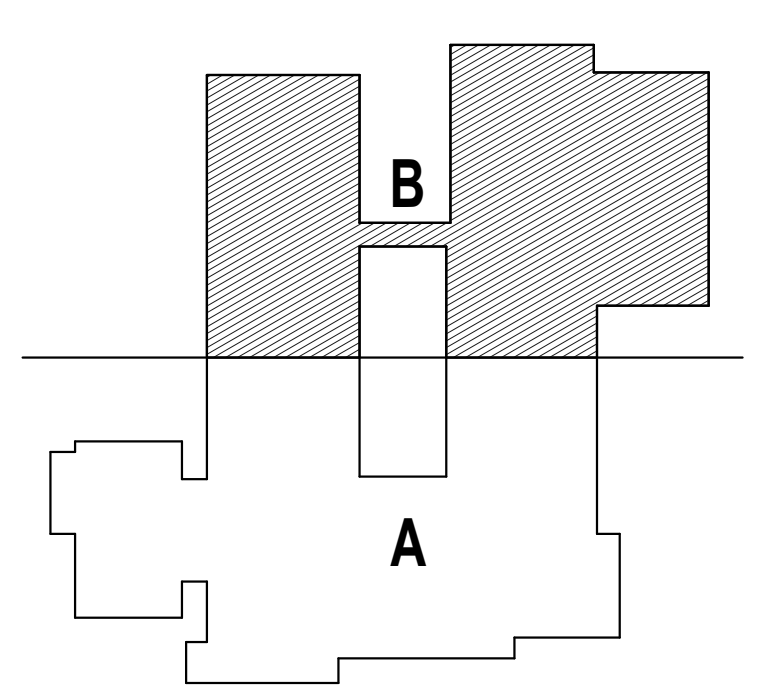
MECHANICAL GENERAL NOTES:

- PROVIDE NECESSARY LOW VOLTAGE WIRING, POWER SUPPLIES TO CONTROLLER & TRANSFORMERS TO SUPPLY POWER TO THE REMOTE SENSORS AS REQUIRED BY MANUFACTURER.
- PROVIDE NECESSARY ACCESS AND CLEARANCES AROUND ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATION AND/OR INSTALLATION INSTRUCTIONS.
- VERIFY EXACT LOCATION OF EQUIPMENT IN FIELD AND COORDINATE WITH ALL TRADES.
- FIRE SPRINKLERS AND LIGHTS TAKE PRECEDENCE OVER DIFFUSERS AND CASSETTES. CONTRACTOR TO VERIFY LOCATIONS IN FIELD.
- ALL COMBINATION FIRE/SMOKE, SMOKE, AND FIRE DAMPERS SHALL BE PROVIDED WITH DUCT ACCESS DOORS OF ADEQUATE SIZE TO PROVIDE SERVICE AND MAINTENANCE, WHERE THE DAMPERS ARE IN INACCESSIBLE LOCATIONS. COORDINATE THE LOCATIONS OF THE DAMPERS AND THEIR RESPECTIVE DUCT ACCESS DOORS WITH THE GENERAL CONTRACTOR TO PROVIDE ACCESS DOORS IN FINISHED SURFACES - MIN. 18" X 18" WHERE THE CONSTRUCTION ASSEMBLY HAS A FIRE RATING. THE ACCESS DOORS SHALL BE RATED TO MATCH.
- ALL PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED. REFER TO DETAILS ON THE M5 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE DAMPER OPERATED VOLUME DAMPERS (COV) AT ALL LOCATIONS WHERE THE DAMPER IS LOCATED BEHIND AN INACCESSIBLE ASSEMBLY. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF THE OPERATORS TO ALLOW FOR CONVENIENT OPERATION. INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- SPACE THERMOSTATS/SENSORS/CONTROLLERS SHALL BE INSTALLED AT 48" AFF. LOCATE SENSORS AND THERMOSTATS SUCH THAT THEY ARE ACCESSIBLE, PROTECTED, AND IN AN AREA OF UNOBSTRUCTED AIR CIRCULATION.
- ALL PIPING IS DIAGRAMMATICAL. EXACT PIPE ROUTING AND LENGTH TO BE VERIFIED IN FIELD. FINAL REPRESENTATIVE PIPING SIZES SHALL BE BY UNIT MANUFACTURER BASED ON APPROVED COORDINATION DRAWINGS.
- PROVIDE A FLEXIBLE DUCT CONNECTOR OR PIPING EXPANSION LOOP WHERE DUCT PIPE CROSSES AN EXISTING BUILDING EXPANSION JOINT.
- INSTALL SMOKE DETECTORS IN ACCORDANCE WITH LOCAL CODES AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. IN LIEU OF ADEQUATE SPACE REQUIRED FOR THE INSTALLATION OF THE DETECTOR, MULTIPLE SMOKE DETECTORS MAY BE REQUIRED BASED ON THE LAYOUT OF THE DUCTWORK. MECH CONTRACTOR TO COORDINATE WITH WORK BY DW 26. PROVIDE WEATHERPROOF SMOKE DETECTORS AT ALL LOCATIONS WHERE EXPOSED TO THE ATMOSPHERE. COORDINATE ALL SHUT DOWNS OF EXISTING SYSTEMS WITH THE BUILDING OWNER.

MECHANICAL DUCTWORK KEY NOTES:
(NOT ALL KEY NOTES APPEAR ON THIS SHEET)

- THE EXISTING HVAC EQUIPMENT AND ITS APPURTENANCES THEREOF SHALL REMAIN.
- CEILING RECESSED CASSETTE FAN COIL UNIT. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL ON THE M5 SERIES DWGS. COORDINATE FINAL LOCATION OF UNIT WITH EXISTING CONDITIONS AND ALL TRADES.
- MOUNT INDOOR DUCTLESS AC UNIT HIGH ON THE WALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE FINAL LOCATION OF UNIT WITH EXISTING CONDITIONS AND ALL TRADES.
- VRF BRANCH CIRCUIT CONTROLLER TO BE INSTALLED ABOVE CEILING IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ACCESS CLEARANCES AS REQUIRED. REFER TO DETAIL ON THE M5 SERIES DWGS. COORDINATE FINAL LOCATION OF UNIT AND ORIENTATION OF CONTROL BOX WITH EXISTING CONDITIONS AND ALL TRADES.
- SINGLE DUCT VARIABLE AIR VOLUME (VAV) BOX. INSTALL BOX ABOVE THE CEILING IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ACCESS CLEARANCES AS REQUIRED. REFER TO DETAIL ON THE M5 SERIES DWGS. COORDINATE FINAL LOCATION OF UNIT AND ORIENTATION OF CONTROL BOX WITH EXISTING CONDITIONS AND ALL TRADES.

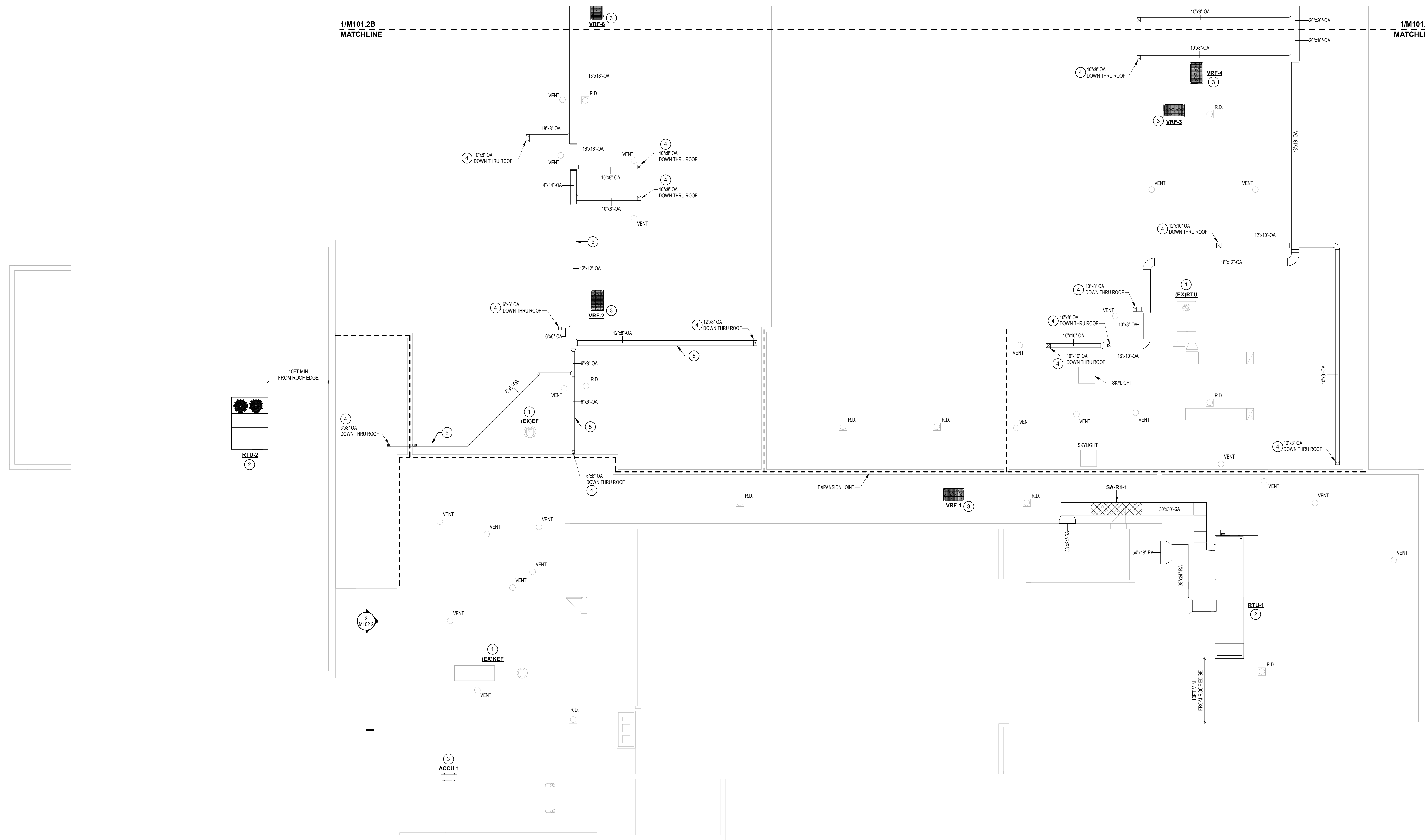
KEY PLAN



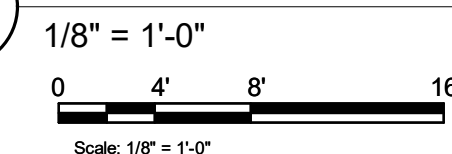
KEY PLAN

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MATCHLINE

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MATCHLINE



1 PARTIAL ROOF MECHANICAL DUCTWORK PLANS - PART A



UNIT CONFIGURATION NOTES:

- UNIT CONFIGURATION IS BASED ON THE "BASIS OF DESIGN" (BOD) UNIT SPECIFIED. IF THE BOD IS NOT BEING PROVIDED, THEN SUBMIT REQUESTS FOR "EQUALS OR SUBSTITUTIONS" IN ACCORDANCE WITH "SUBSTITUTION PROCEDURES". WHEN SELECTING AN EQUAL OR SUBSTITUTION, PROVIDE A UNIT THAT MATCHES THE SIGNIFICANT QUALITIES (I.E. CONFIGURATION, WEIGHT, SIZE, SOUND DATA ETC.) OF THE BOD. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION RELATED TO SUBSTITUTION. ANY CHANGES TO THE ABOVE RESULTING FROM THE PROPOSED EQUAL OR SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE MC.
- UNIT WEIGHT REPRESENTS THE UNIT WITH ALL SPECIFIED FEATURES AND INSTALLED OPTIONS. THE WEIGHT DOES NOT INCLUDE ROOF CURBS OR STEEL DUNNAGE. REFER TO PLANS FOR METHOD OF SUPPORT.

MECH. ROOF PLAN GENERAL NOTES:

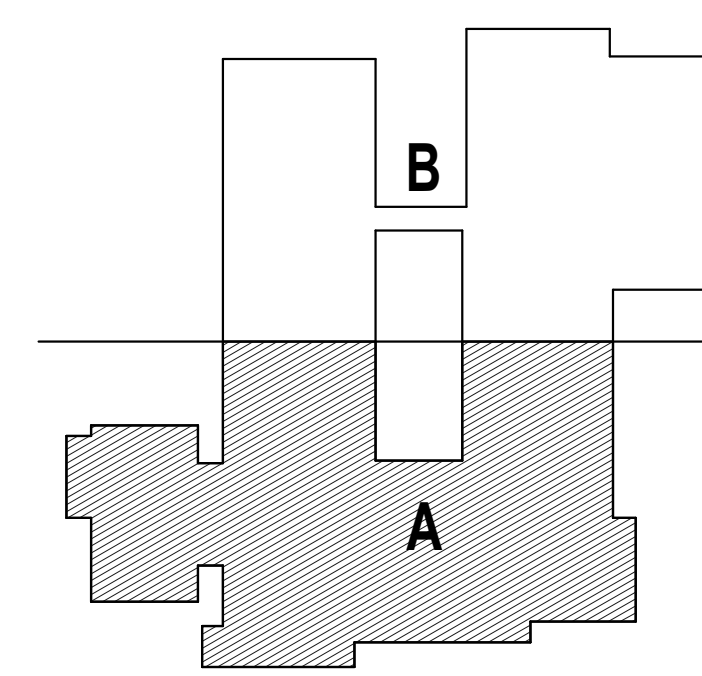
- MAINTAIN A MINIMUM DISTANCE OF 10'-0" BETWEEN ALL ROOF MOUNTED EQUIPMENT AND EDGE OF ROOF. WITH THE EXCEPTION OF EQUIPMENT LOCATED WITHIN OR NEAR AN ARCHITECTURAL SCREEN WALL. COORDINATE WITH OTHER TRADES.
- MAINTAIN A MINIMUM DISTANCE OF 25'-0" BETWEEN NEW MECHANICAL OUTDOOR AIR INTAKES (OAI) AND ALL MECHANICAL EXHAUST OR PLUMBING VENTS. INDICATE ALL EXHAUSTS NEAR THE OAI ON THE COORDINATION SHOP DRAWINGS. WHERE THE LOCATION OF THE EQUIPMENT CANNOT SATISFY THE ABOVE REQUIREMENT, THE MC SHALL COORDINATE WITH WORK BY OTHER SECTION DIVISIONS TO EXTEND ANY EXHAUSTS SO THE DISCHARGE IS 5'-0" HIGHER THAN THE OAI. EXTENSIONS SHALL BE FULLY SECURED AND/OR SUPPORTED TO THE BUILDING STRUCTURE TO WITHSTAND WIND FORCES PER THE BUILDING CODE. THE MEANS BY WHICH THE EXHAUST DISCHARGE IS TO BE MODIFIED SHALL BE DELEGATED TO ITS RESPECTIVE CONTRACTOR(S).

MECHANICAL ROOF PLAN KEY NOTES:

(NOT ALL KEY NOTES APPEAR ON THIS SHEET)

- THE EXISTING HVAC EQUIPMENT AND ITS APPURTENANCES THEREOF SHALL REMAIN.
- NEW ROOF TOP UNIT (RTU / DOAS). SEE DETAILS ON THE MS SERIES DRAWINGS. MOUNT UNIT ON NEW 24" HIGH PRE-FABRICATED, INSULATED, SEISMICALLY AND ACOUSTICALLY RATED, VIBRATION ISOLATION ROOF CURBS. CURBS SHALL SUPPORT THE EQUIPMENT AROUND THE UNITS FULL PERIMETER. UNIT SHALL BE MOUNTED PLUMB AND LEVEL ON CURBS. VERIFY EXISTING PITCH OF STRUCTURE AND PROVIDE CURBS WITH SLOPED BASES AS REQUIRED FOR A LEVEL TOP MOUNTING SURFACE. MAINTAIN THE MINIMUM CLEARANCES AROUND THE UNIT FOR SERVICING AND MAINTENANCE PER THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, WHERE REQUIRED. MISC. STRUCTURAL STEEL SHALL BE PROVIDED BELOW THE ROOF THAT WILL FULLY SUPPORT THE EQUIPMENT AROUND THE UNITS FULL PERIMETER. COORDINATE WITH THE WORK BY OTHER TRADES.
- MOUNT AIR-COOLED CONDENSING UNIT ON PRE-FABRICATED EQUIPMENT ROOF RAILS. THE MECH. CONTRACTOR SHALL COORDINATE THE ORIENTATION OF THE ROOF EQUIP. RAILS TO SPAN A MINIMUM OF TWO ROOF BEAMS/JOISTS BELOW. PROVIDE MISC. STEEL TO CONTINUOUSLY SUPPORT THE RAILS FROM BELOW. COORDINATE FINAL LOCATION AND INSTALLATION WITH EXISTING CONDITIONS AND ALL TRADES. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
- RUN DUCTWORK DOWN THROUGH ROOF IN WEATHERPROOF ENCLOSURE. REFER TO DETAIL ON THE MS SERIES DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE WORK WITH ALL TRADES.
- RUN DUCTWORK EXPOSED ALONG THE ROOF ON SUPPORTS. WHERE POSSIBLE, COORDINATE SUPPORT LOCATIONS TO CONCORD WITH THE ROOF STRUCTURAL STEEL (I.E. BEAMS/JOISTS). LOCATE SUPPORTS A MAXIMUM OF 10'-0" O.C. REFER TO DETAIL ON THE MS SERIES DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE MISC. STEEL BELOW ROOF AT SUPPORT LOCATIONS NOT SUPPORTED BY THE ROOF'S STRUCTURAL STEEL. INSULATE AND JACKET DUCTWORK PER SPECIFICATIONS AND DETAILS.

KEY PLAN



REVISIONS

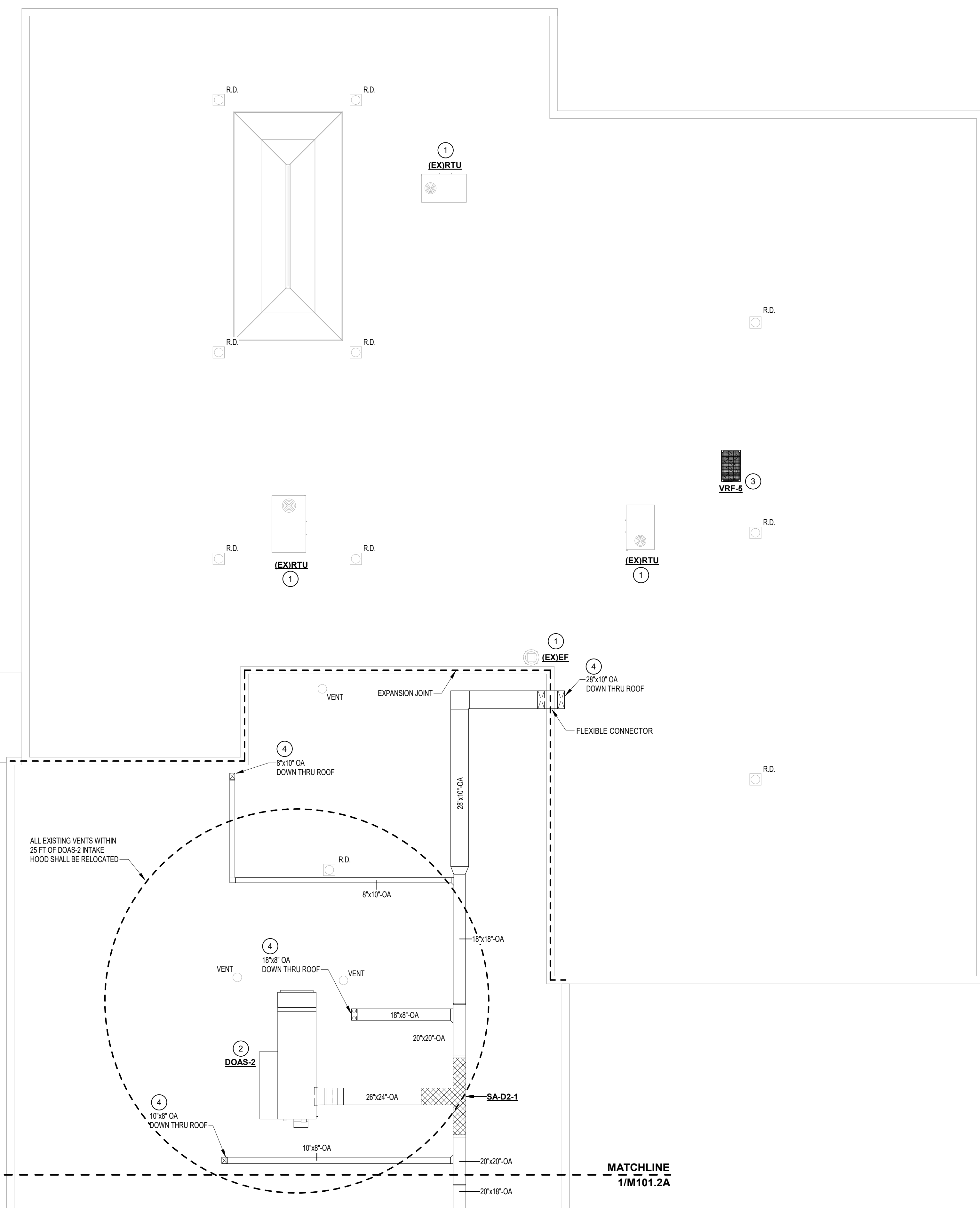
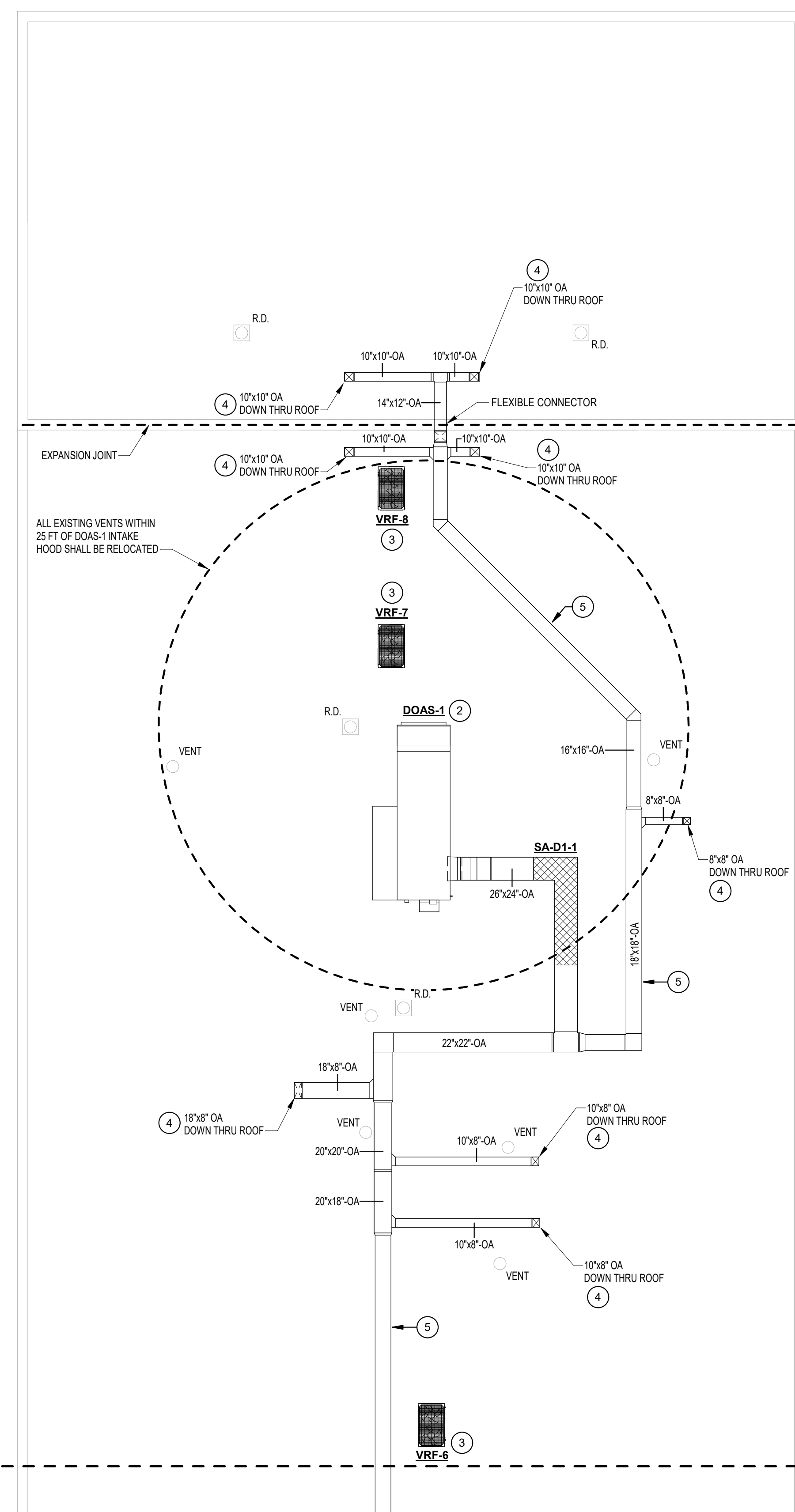
NO DATE DESCRIPTION

Designed:	RF/EX
Drawn:	JK
Reviewed:	JW/P
Project No.:	2301051
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS

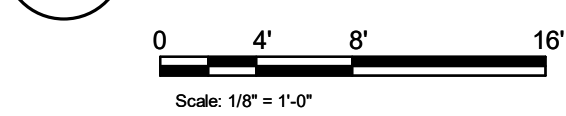
Title:
PARTIAL ROOF MECHANICAL DUCTWORK PLAN - AREA A

Sheet No.:

M101.2A



1 PARTIAL ROOF MECHANICAL DUCTWORK PLANS - PART B



UNIT CONFIGURATION NOTES:

- UNIT CONFIGURATION IS BASED ON THE "BASIS OF DESIGN" (BOD) UNIT SPECIFIED. IF THE BOD IS NOT BEING PROVIDED, THEN SUBMIT REQUESTS FOR "EQUALS OR SUBSTITUTIONS" IN ACCORDANCE WITH "SUBSTITUTION PROCEDURES". WHEN SELECTING AN "EQUAL" OR "SUBSTITUTION", PROVIDE A UNIT THAT MATCHES THE SIGNIFICANT QUALITIES (I.E. CONFIGURATION, WEIGHT, SIZE, SOUND DATA ETC.) OF THE BOD. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION RELATED TO SUBSTITUTION. ANY CHANGES TO THE ABOVE RESULTING FROM THE PROPOSED "EQUAL" OR "SUBSTITUTION" SHALL BE THE RESPONSIBILITY OF THE MC.
- UNIT WEIGHT REPRESENTS THE UNIT WITH ALL SPECIFIED FEATURES AND INSTALLED OPTIONS. THE WEIGHT DOES NOT INCLUDE ROOF CURB OR STEEL DUNNAGE. REFER TO PLANS FOR METHOD OF SUPPORT.

MECH. ROOF PLAN GENERAL NOTES:

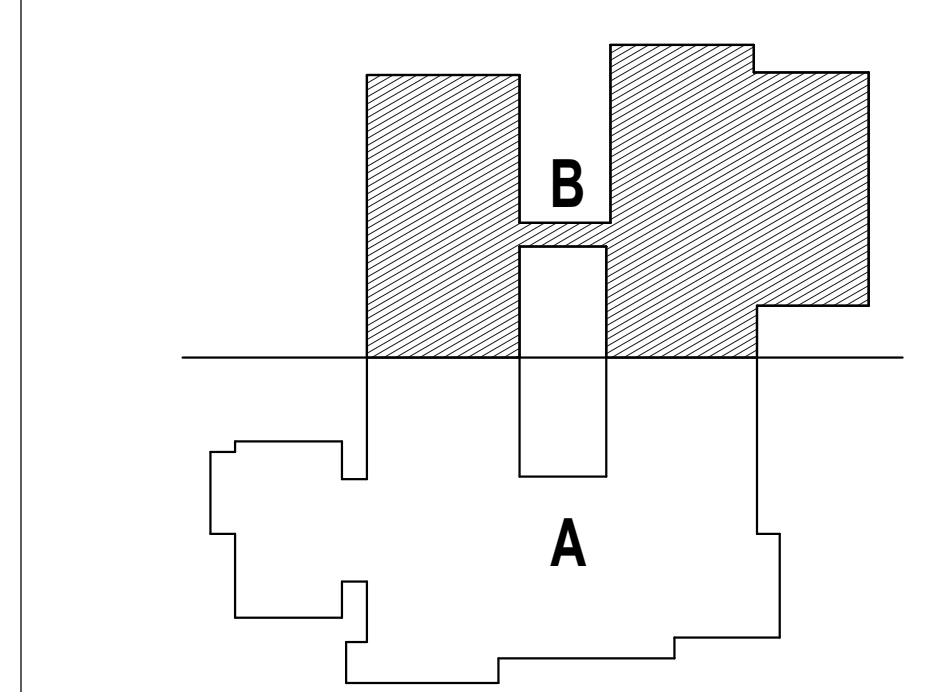
- MAINTAIN A MINIMUM DISTANCE OF 10'-0" BETWEEN ALL ROOF MOUNTED EQUIPMENT AND EDGE OF ROOF, WITH THE EXCEPTION OF EQUIPMENT LOCATED WITHIN OR NEAR AN ARCHITECTURAL SCREEN WALL. COORDINATE WITH OTHER TRADES.
- MAINTAIN A MINIMUM DISTANCE OF 25'-0" BETWEEN NEW MECHANICAL OUTDOOR AIR INTAKES (OAI) AND ALL MECHANICAL EXHAUST OR PLUMBING VENTS. INDICATE ALL EXHAUSTS NEAR THE OAI ON THE COORDINATION SHOP DRAWINGS. WHERE THE LOCATION OF THE EQUIPMENT CANNOT SATISFY THE ABOVE REQUIREMENT, THE MC SHALL COORDINATE WITH WORK BY OTHER SECTION DIVISIONS TO EXTEND ANY EXHAUSTS SO THE DISCHARGE IS 3'-0" HIGHER THAN THE OAI. EXTENSIONS SHALL BE FULLY SECURED AND/OR SUPPORTED TO THE BUILDING STRUCTURE TO WITHSTAND WIND FORCES PER THE BUILDING CODE. THE MEANS BY WHICH THE EXHAUST DISCHARGE IS TO BE MODIFIED SHALL BE DELEGATED TO ITS RESPECTIVE CONTRACTOR(S).

MECHANICAL ROOF PLAN KEY NOTES:

(NOT ALL KEY NOTES APPEAR ON THIS SHEET)

- THE EXISTING HVAC EQUIPMENT AND ITS APPURTENANCES THEREOF SHALL REMAIN.
- NEW ROOF TOP UNIT (RTU) / DOAS: SEE DETAILS ON THE MS SERIES DRAWINGS. MOUNT UNIT ON NEW 2" HIGH PRE-FABRICATED, INSULATED, SEMI-CRIPPLED AND ACOUSTICALLY RATED VENTILATION ISOLATION ROOF CURB. CURBS SHALL SUPPORT THE EQUIPMENT AROUND THE UNITS FULL PERIMETER. UNIT SHALL BE MOUNTED PLUMB AND LEVEL ON CURB. VERIFY EXISTING PITCH OF STRUCTURE AND PROVIDE CURB WITH SLOPED BAKE AS REQUIRED FOR A LEVEL TOP MOUNTING SURFACE. MAINTAIN THE MINIMUM CLEARANCES AROUND THE UNIT FOR SERVICING AND MAINTENANCE PER THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. WHERE REQUIRED, MSC STRUCTURAL STEEL SHALL BE PROVIDED BELOW THE ROOF THAT WILL FULLY SUPPORT THE EQUIPMENT AROUND THE UNITS FULL PERIMETER. COORDINATE WITH THE WORK BY OTHER TRADES.
- MOUNT AIR-COOLED CONDENSING UNIT ON PRE-FABRICATED EQUIPMENT ROOF RAILS. THE MECH CONTRACTOR SHALL COORDINATE THE ORIENTATION OF THE ROOF EQUIP. RAILS TO SPAN A MINIMUM OF TWO ROOF BEAMS/JOISTS BELOW. PROVIDE MSC STEEL TO CONTINUOUSLY SUPPORT THE RAILS FROM BELOW. COORDINATE FINAL LOCATION AND INSTALLATION WITH EXISTING CONDITIONS AND ALL TRADES. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
- RUN DUCTWORK DOWN THROUGH ROOF IN WEATHERPROOF ENCLOSURE. REFER TO DETAIL ON THE MS SERIES DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE WORK WITH ALL TRADES.
- RUN DUCTWORK EXPOSED ALONG THE ROOF ON SUPPORTS. WHERE POSSIBLE, COORDINATE SUPPORT LOCATIONS TO COINCIDE WITH THE ROOF STRUCTURAL STEEL (I.E. BEAMS/JOISTS). LOCATE SUPPORTS A MAXIMUM OF 10'-0" O.C. REFER TO DETAIL ON THE MS SERIES DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE MSC STEEL BELOW ROOF AT SUPPORT LOCATIONS NOT SUPPORTED BY THE ROOF'S STRUCTURAL STEEL. INSULATE AND JACKET DUCTWORK PER SPECIFICATIONS AND DETAILS.

KEY PLAN

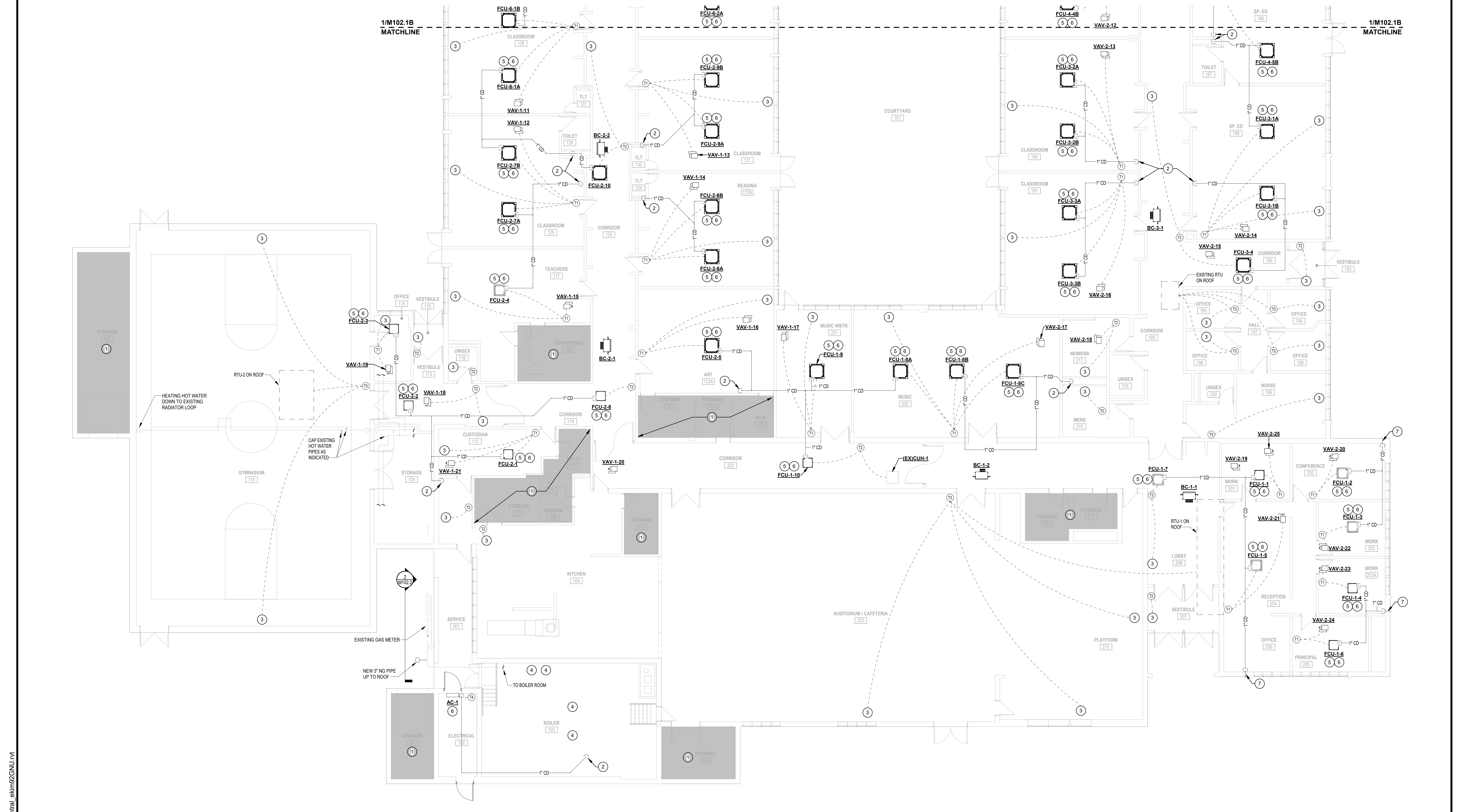


KEY PLAN

REVISIONS	NO	DATE	DESCRIPTION

Designed: RFE/K
Drawn: JF/K
Reviewed: JWF
Project No.: 2301051
Date: 09/20/2023
Issued for:
95% CONSTRUCTION
DOCUMENTS

Sheet No.
M102.1A



1 PARTIAL FIRST FLOOR MECHANICAL PIPING PLAN - AREA A
1/8" = 1'-0"
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

- PROVIDE NECESSARY LOW VOLTAGE WIRING, POWER SUPPLIES TO CONTROLLER, & TRANSFORMERS TO SUPPLY POWER TO THE REMOTE SENSORS AS REQUIRED BY MANUFACTURER.
- PROVIDE NECESSARY ACCESS AND CLEARANCES AROUND ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATION AND/OR INSTALLATION INSTRUCTIONS.
- VERIFY EXACT LOCATION OF EQUIPMENT IN FIELD AND COORDINATE WITH ALL TRADES.
- FIRE SPRINKLERS AND LIGHTS TAKE PRECEDENCE OVER DIFFUSERS AND CASSETTES. CONTRACTOR TO VERIFY LOCATIONS IN FIELD.
- ALL COMBINATION FIRE SMOKE, SMOKE, AND FIRE DAMPERS SHALL BE PROVIDED WITH DUCT ACCESS DOORS OF ADEQUATE SIZE TO PROVIDE SERVICE AND MAINTENANCE. WHERE THE DAMPERS ARE IN INACCESSIBLE LOCATIONS, COORDINATE THE LOCATIONS OF THE DAMPERS AND THEIR RESPECTIVE DUCT ACCESS DOORS WITH THE GENERAL CONTRACTOR TO PROVIDE ACCESS DOORS IN FINISHED SURFACES - MIN. 18"x18" WHERE THE CONSTRUCTION ASSEMBLY HAS A FIRE RATING. THE ACCESS DOORS SHALL BE RATED TO MATCH.
- ALL PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. REFER TO DETAILS ON THE MS SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE CABLE OPERATED VOLUME DAMPERS (COV) AT ALL LOCATIONS WHERE THE DAMPER IS LOCATED BEHIND AN INACCESSIBLE ASSEMBLY. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF THE OPERATORS TO ALLOW FOR CONVENIENT OPERATION. INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- SPACE THERMOSTATS/SENSORS/CONTROLLERS SHALL BE INSTALLED AT 48" AFF. LOCATE SENSORS AND THERMOSTATS SUCH THAT THEY ARE ACCESSIBLE, PROTECTED, AND IN AN AREA OF UNOBSTRUCTED AIR CIRCULATION.
- ALL PIPING IS DIAGRAMMATICAL. EXACT PIPE ROUTING AND LENGTH TO BE VERIFIED IN FIELD. FINAL REFRIGERANT PIPING SIZES SHALL BE BY UNIT MANUFACTURER BASED ON APPROVED COORDINATION DRAWINGS.

- PROVIDE A FLEXIBLE DUCT CONNECTOR OR PIPING EXPANSION LOOP WHERE DUCTPIPE CROSSES AN EXISTING BUILDING EXPANSION JOINT.
- INSTALL SMOKE DETECTORS IN ACCORDANCE WITH LOCAL CODES AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. IN LIEU OF ADEQUATE SPACE REQUIRED FOR THE INSTALLATION OF THE DETECTOR, MULTIPLE SMOKE DETECTORS MAY BE REQUIRED BASED ON THE LAYOUT OF THE DUCTWORK. MECH. CONTRACTOR TO COORDINATE WITH WORK BY DIV 28. PROVIDE WEATHERPROOF SMOKE DETECTOR(S) AT ALL LOCATIONS WHERE EXPOSED TO THE ATMOSPHERE. COORDINATE ALL SHUT DOWNS OF EXISTING SYSTEMS WITH THE BUILDING OWNER.

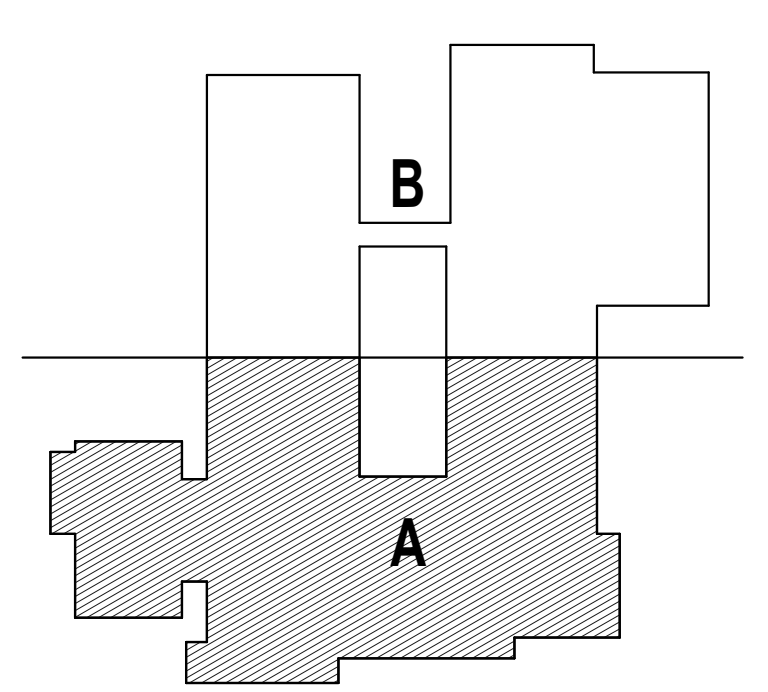
MECHANICAL KEY NOTES:
(NOT ALL KEY NOTES APPEAR ON ALL SHEETS)

- THE EXISTING HVAC EQUIPMENT AND ITS APPURTENANCES THEREOF SHALL REMAIN.
- RUN THE CONDENSATE DOWN TO A FLOOR DRAIN, MOP SINK OR INDIRECT SANITARY CONNECTION (REFER TO PLAN FOR DEVICE). TERMINATE DRAIN OVER THE DEVICE AND MAINTAIN A MINIMUM 1" AIR GAP PER CODE. COORDINATE CONCEALED INSTALLATION OF PIPE WITH GENERAL CONTRACTOR.
- LOCATE AND REPLACE EXISTING PNEUMATIC CONTROL VALVE IN HOT WATER RADIATION WITH NEW 24V CONTROL VALVE CONNECTED TO NEW TEMPERATURE SENSOR.
- LOCATE AND REPLACE EXISTING PNEUMATIC HOT WATER CONTROL VALVE IN BOILER ROOM WITH NEW 24V CONTROLS CONNECTED TO NEW BMS.
- REFRIGERANT PIPING SIZES SHALL BE BY UNIT MANUFACTURER BASED ON THE FINAL APPROVED COORDINATION DRAWINGS. INSULATE ALL REFRIGERANT PIPING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- INSTALL FINAL CONDENSATE CONNECTION TO UNIT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CONDENSATE PUMP CAPABILITY. PITCH CD 1/8" PER FOOT IN DIRECTION OF FLOW. SIZE AS FOLLOWS: 1" UP TO 5 TONS, 1-1/4" UP TO 30 TONS CONNECTED CAPACITY. INSULATE CONDENSATE PIPING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- RUN THE CONDENSATE DOWN TO APPROX. 18" ABOVE FINISHED GRADE AND RUN TO ATMOSPHERE. TERMINATE DISCHARGE WITH A 45 DEGREE ANGLE DOWNWARD AND SPILL TO GRADE. PROVIDE SPLASH BLOCK. COORDINATE CONCEALED INSTALLATION OF INTERIOR PIPE WITH GENERAL CONTRACTOR.

MECHANICAL CONTROLS LEGEND:

- (T) INTELLIGENT TEMPERATURE SENSOR WITH BUILT IN CO2/RH AND TOUCHSCREEN. MOUNT VRF THERMISTOR ON STAINLESS STEEL METAL PLATE. VRF MANUFACTURER TO FURNISH THERMISTORS. CONTROLS CONTRACTOR TO INSTALL THERMISTORS.
- (T) STAINLESS STEEL TEMPERATURE SENSOR WITHOUT DISPLAY. PROVIDE LOCKABLE COVER FOR ALL THERMOSTATS LOCATED IN CORRIDORS.
- (T) INTELLIGENT TEMPERATURE SENSOR WITH BUILT IN CO2 AND TOUCHSCREEN. PROVIDE LOCKABLE COVER FOR ALL THERMOSTATS.
- (T) MANUFACTURER PROVIDED THERMOSTAT.

KEY PLAN

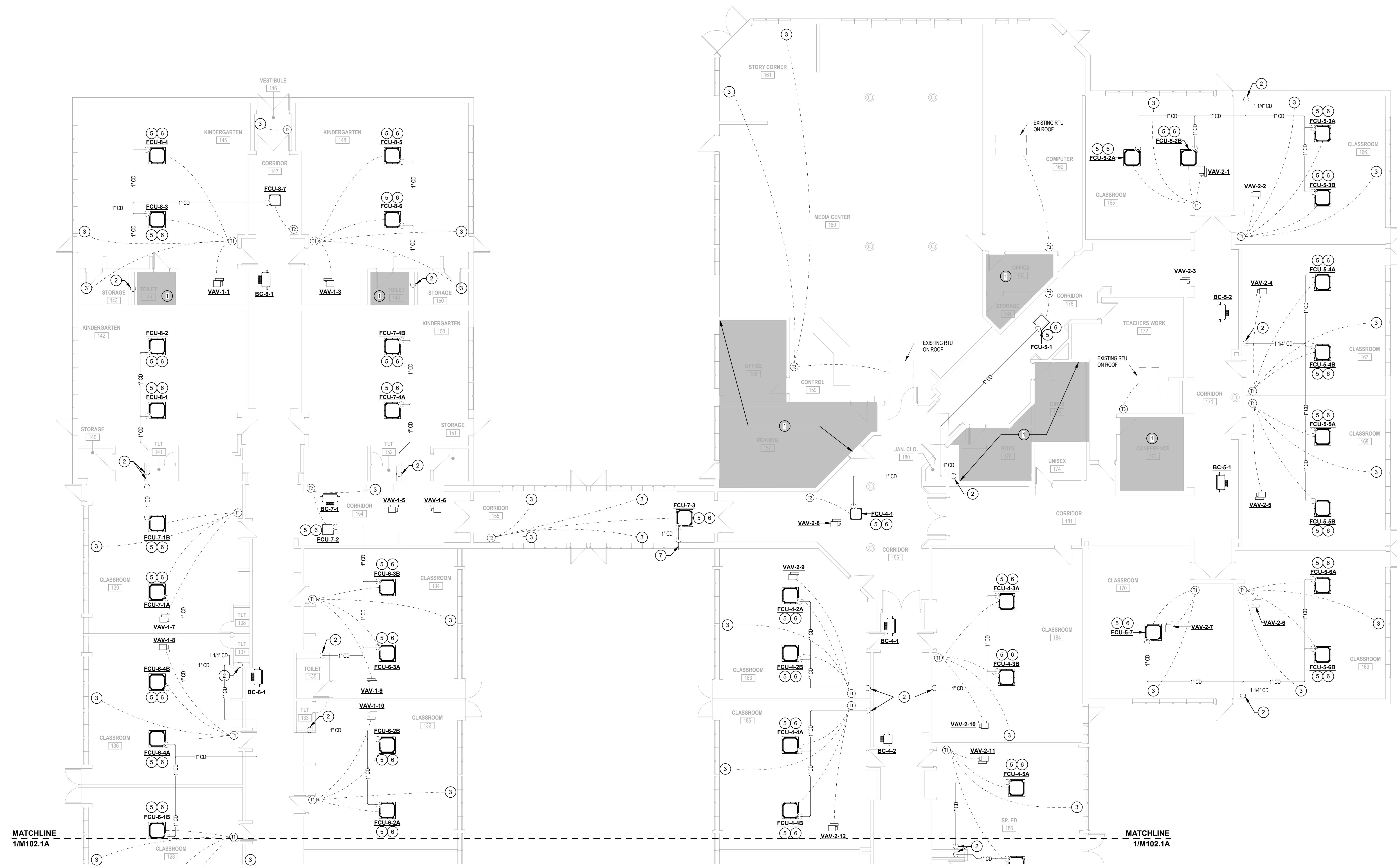


KEY PLAN

NO	DATE	DESCRIPTION

Designed: RFE/EX
Drawn: JWK
Reviewed: JWK
Project No.: 230355
Date: 09/20/2023
Issued for:
95% CONSTRUCTION DOCUMENTS
Title:
PARTIAL FIRST FLOOR MECHANICAL PIPING/CONTROLS PLAN - AREA B
Sheet No.:

M102.1B



1 PARTIAL FIRST FLOOR MECHANICAL PIPING PLAN - AREA B
1/8" = 1'-0"
Scale: 1/8" = 1'-0"

MECHANICAL GENERAL NOTES:

1. PROVIDE NECESSARY LOW VOLTAGE WIRING, POWER SUPPLIES TO CONTROLLER, & TRANSFORMERS TO SUPPLY POWER TO THE REMOTE SENSORS AS REQUIRED BY MANUFACTURER.
2. PROVIDE NECESSARY ACCESS AND CLEARANCES AROUND ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATION AND/OR INSTALLATION INSTRUCTIONS.
3. VERIFY EXACT LOCATION OF EQUIPMENT IN FIELD AND COORDINATE WITH ALL TRADES.
4. FIRE SPRINKLERS AND LIGHTS TAKE PRECEDENCE OVER DIFFUSERS AND CASSETTES. CONTRACTOR TO VERIFY LOCATIONS IN FIELD.
5. ALL COMBINATION FIRE/SMOKE, SMOKE, AND FIRE DAMPERS SHALL BE PROVIDED WITH DUCT ACCESS DOORS OF ADEQUATE SIZE TO PROVIDE SERVICE AND MAINTENANCE. WHERE THE DAMPERS ARE IN INACCESSIBLE LOCATIONS, COORDINATE THE LOCATIONS OF THE DAMPERS AND THEIR RESPECTIVE DUCT ACCESS DOORS WITH THE GENERAL CONTRACTOR TO PROVIDE ACCESS DOORS IN FINISHED SURFACES - MIN. 18"x18" WHERE THE CONSTRUCTION ASSEMBLY HAS A FIRE RATING. THE ACCESS DOORS SHALL BE RATED TO MATCH.
6. ALL PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. REFER TO DETAILS ON THE MS SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
7. PROVIDE CABLE OPERATED VOLUME DAMPERS (COV) AT ALL LOCATIONS WHERE THE DAMPER IS LOCATED BEHIND AN INACCESSIBLE ASSEMBLY. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF THE OPERATORS TO ALLOW FOR CONVENIENT OPERATION. INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. SPACE THERMOSTATS/SENSORS/CONTROLLERS SHALL BE INSTALLED AT 48" AFF. LOCATE SENSORS AND THERMOSTATS SUCH THAT THEY ARE ACCESSIBLE, PROTECTED, AND IN AN AREA OF UNOBSTRUCTED AIR CIRCULATION.
9. ALL PIPING IS DIAGRAMMATICAL. EXACT PIPE ROUTING AND LENGTH TO BE VERIFIED IN FIELD. FINAL REFRIGERANT PIPING SIZES SHALL BE BY UNIT MANUFACTURER BASED ON APPROVED COORDINATION DRAWINGS.

10. PROVIDE A FLEXIBLE DUCT CONNECTOR OR PIPING EXPANSION LOOP WHERE DUCTTYPE CROSSES AN EXISTING BUILDING EXPANSION JOINT.
11. INSTALL SMOKE DETECTORS IN ACCORDANCE WITH LOCAL CODES AND THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. IN LIEU OF ADEQUATE SPACE REQUIRED FOR THE INSTALLATION OF THE DETECTOR, MULTIPLE SMOKE DETECTORS MAY BE REQUIRED BASED ON THE LAYOUT OF THE DUCTWORK. MECH. CONTRACTOR TO COORDINATE WITH WORK BY DIV 28. PROVIDE WEATHERPROOF SMOKE DETECTOR(S) AT ALL LOCATIONS WHERE EXPOSED TO THE ATMOSPHERE. COORDINATE ALL SHUT DOWNS OF EXISTING SYSTEMS WITH THE BUILDING OWNER.
- 12.

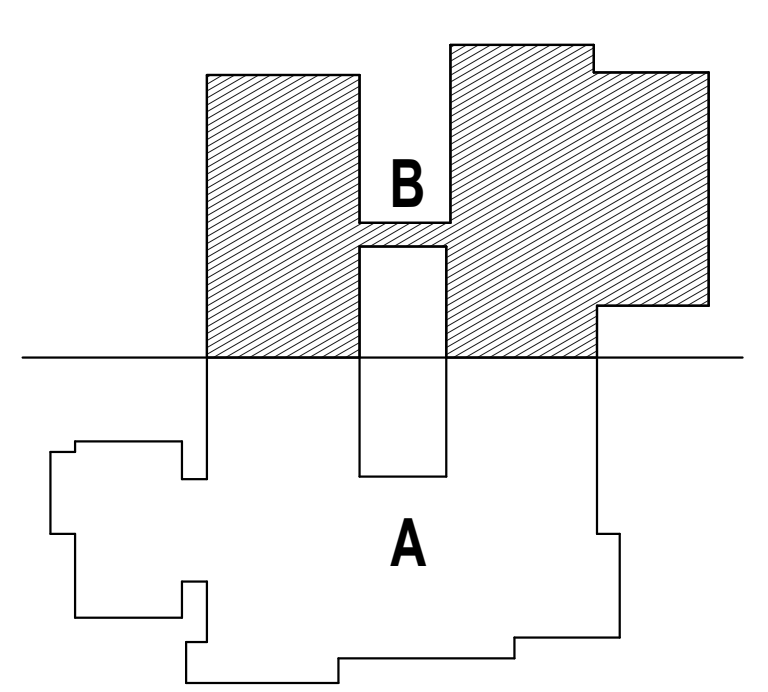
MECHANICAL KEY NOTES:

- (NOT ALL KEY NOTES APPEAR ON ALL SHEETS)
- 1 THE EXISTING HVAC EQUIPMENT AND ITS APPURTENANCES THEREOF SHALL REMAIN.
 - 2 RUN THE CONDENSATE DOWN TO A FLOOR DRAIN, MOP SINK OR INDIRECT SANITARY CONNECTION (REFER TO PLAN FOR DEVICE). TERMINATE DRAIN OVER THE DEVICE AND MAINTAIN A MINIMUM 1" AIR GAP PER CODE. COORDINATE CONCEALED INSTALLATION OF PIPE WITH GENERAL CONTRACTOR.
 - 3 LOCATE AND REPLACE EXISTING PNEUMATIC CONTROL VALVE IN HOT WATER RADIATION WITH NEW 24V CONTROL VALVE CONNECTED TO NEW TEMPERATURE SENSOR.
 - 4 LOCATE AND REPLACE EXISTING PNEUMATIC HOT WATER CONTROL VALVE IN BOILER ROOM WITH NEW 24V CONTROLS CONNECTED TO NEW BMS.
 - 5 REFRIGERANT PIPING SIZES SHALL BE BY UNIT MANUFACTURER BASED ON THE FINAL APPROVED COORDINATION DRAWINGS. INSULATE ALL REFRIGERANT PIPING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 6 INSTALL FINAL CONDENSATE CONNECTION TO UNIT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CONDENSATE PUMP CAPABILITY. PITCH CD 1/8" PER FOOT IN DIRECTION OF FLOW. SIZE AS FOLLOWS: 1" UP TO 5 TONS, 1 1/4" UP TO 30 TONS CONNECTED CAPACITY. INSULATE CONDENSATE PIPING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 7 RUN THE CONDENSATE DOWN TO APPROX. 10' ABOVE FINISHED GRADE AND RUN TO ATMOSPHERE. TERMINATE DISCHARGE WITH A 45° ELBOW ANGLED DOWNWARD AND SPILL TO GRADE. PROVIDE SPLASH BLOCK. COORDINATE CONCEALED INSTALLATION OF INTERIOR PIPE WITH GENERAL CONTRACTOR.

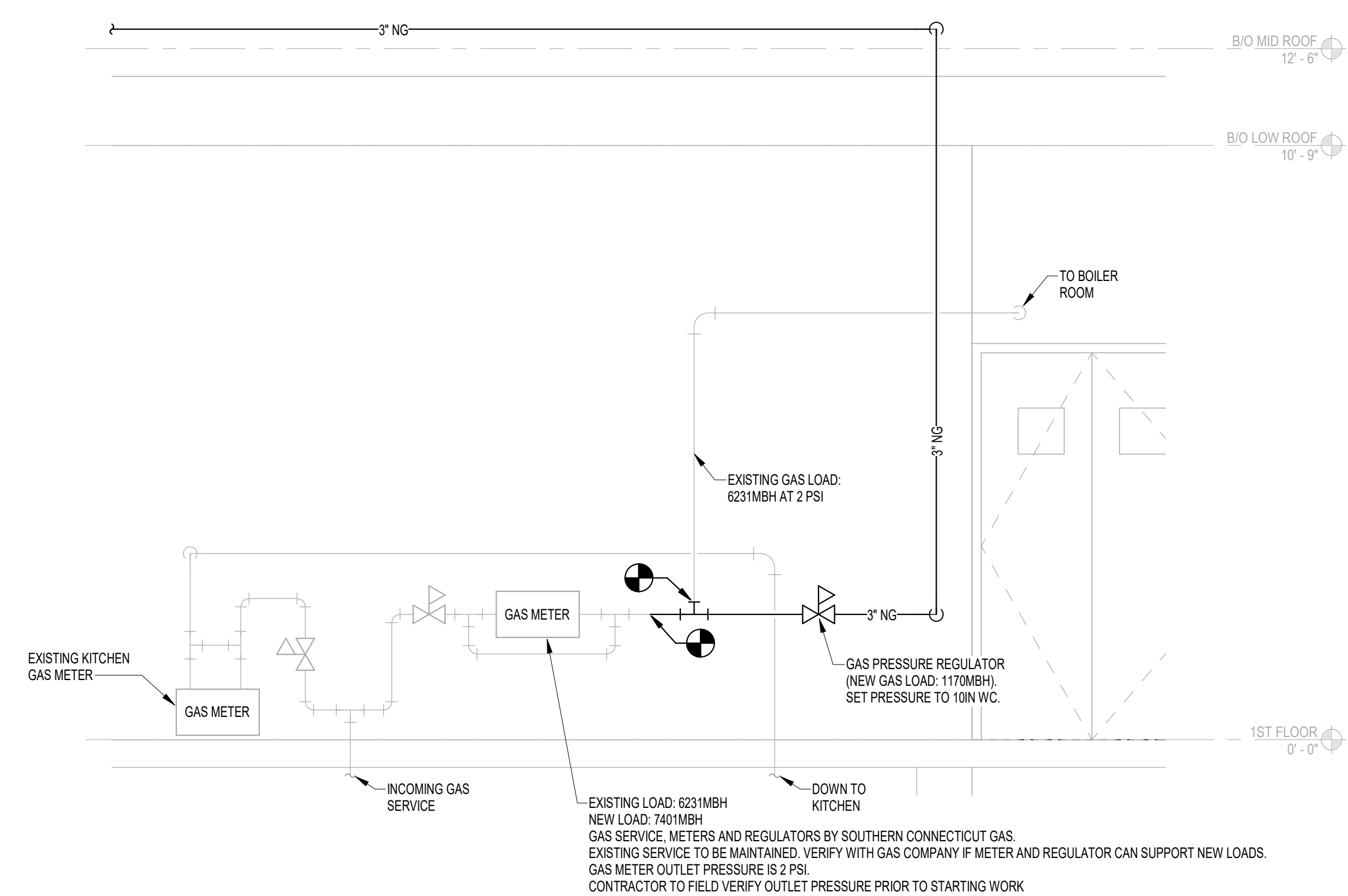
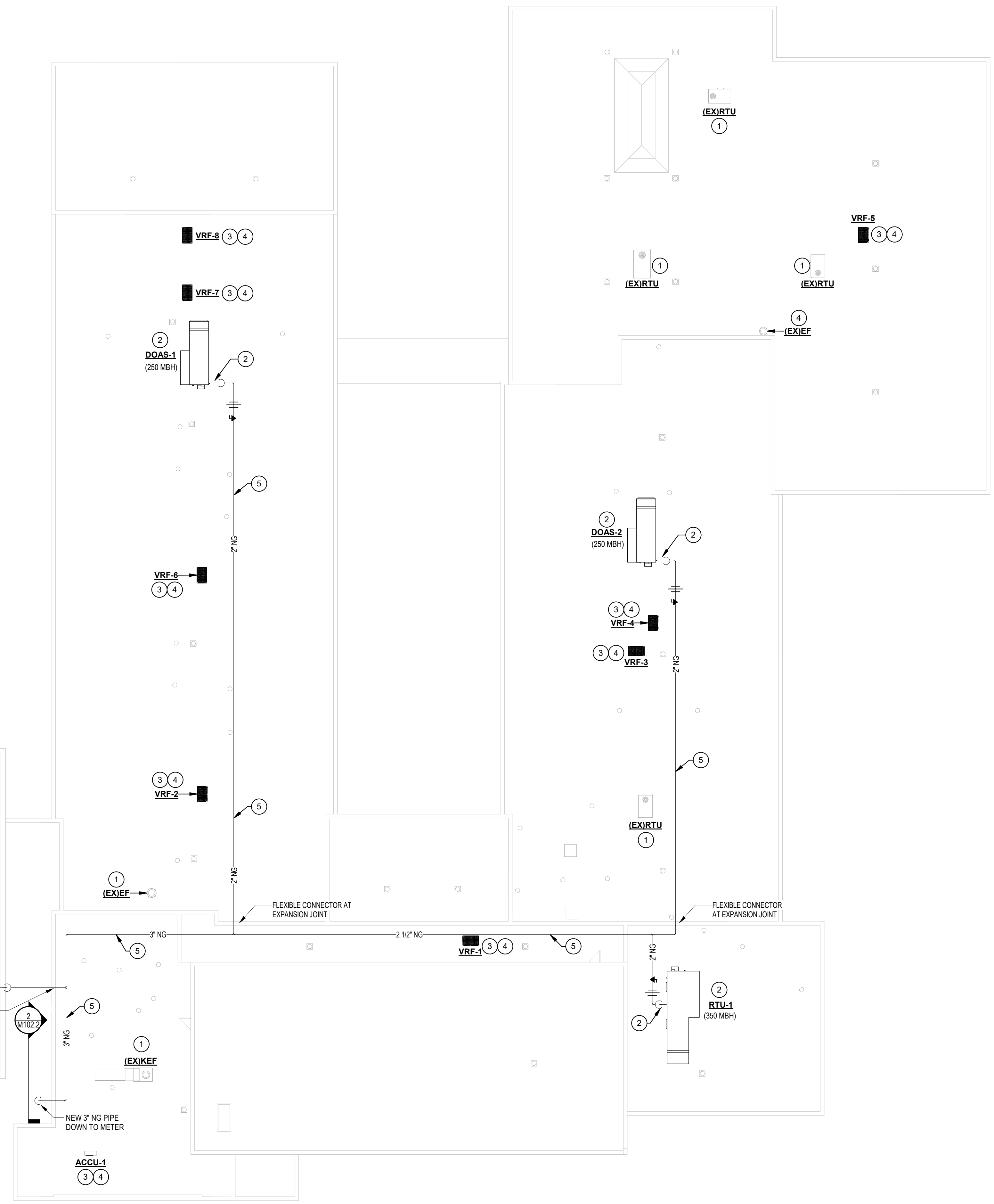
MECHANICAL CONTROLS LEGEND:

- 1) INTELLIGENT TEMPERATURE SENSOR WITH BUILT IN CO2/RH AND TOUCHSCREEN. MOUNT VRF THERMISTOR ON STAINLESS STEEL METAL PLATE. VRF MANUFACTURER TO FURNISH THERMISTORS. CONTROLS CONTRACTOR TO INSTALL THERMISTORS.
- 2) STAINLESS STEEL TEMPERATURE SENSOR WITHOUT DISPLAY. PROVIDE LOCKABLE COVER FOR ALL THERMOSTATS LOCATED IN CORRIDORS.
- 3) INTELLIGENT TEMPERATURE SENSOR WITH BUILT IN CO2 AND TOUCHSCREEN. PROVIDE LOCKABLE COVER FOR ALL THERMOSTATS.
- 4) MANUFACTURER PROVIDED THERMOSTAT.

KEY PLAN

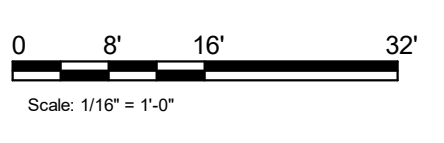


KEY PLAN



1 OVERALL ROOF MECHANICAL PIPING PLAN
1/16" = 1'-0"

2 GAS PIPING SECTION VIEW
1/2" = 1'-0"



UNIT CONFIGURATION NOTES:

- UNIT CONFIGURATION IS BASED ON THE "BASIS OF DESIGN" (BOD) UNIT SPECIFIED. IF THE BOD IS NOT BEING PROVIDED, THEN SUBMIT REQUESTS FOR "EQUALS OR SUBSTITUTIONS" IN ACCORDANCE WITH "SUBSTITUTION PROCEDURES". WHEN SELECTING AN "EQUAL OR SUBSTITUTION", PROVIDE A UNIT THAT MATCHES THE SIGNIFICANT QUALITIES (I.E. CONFIGURATION, WEIGHT, SIZE, SOUND DATA ETC.) OF THE BOD. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION RELATED TO SUBSTITUTION. ANY CHANGES TO THE ABOVE RESULTING FROM THE PROPOSED EQUAL OR SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE MC.
- UNIT HEIGHT REPRESENTS THE UNIT WITH ALL SPECIFIED FEATURES AND INSTALLED OPTIONS. THE WEIGHT DOES NOT INCLUDE ROOF CURB OR STEEL DUNNAGE. REFER TO PLANS FOR METHOD OF SUPPORT.

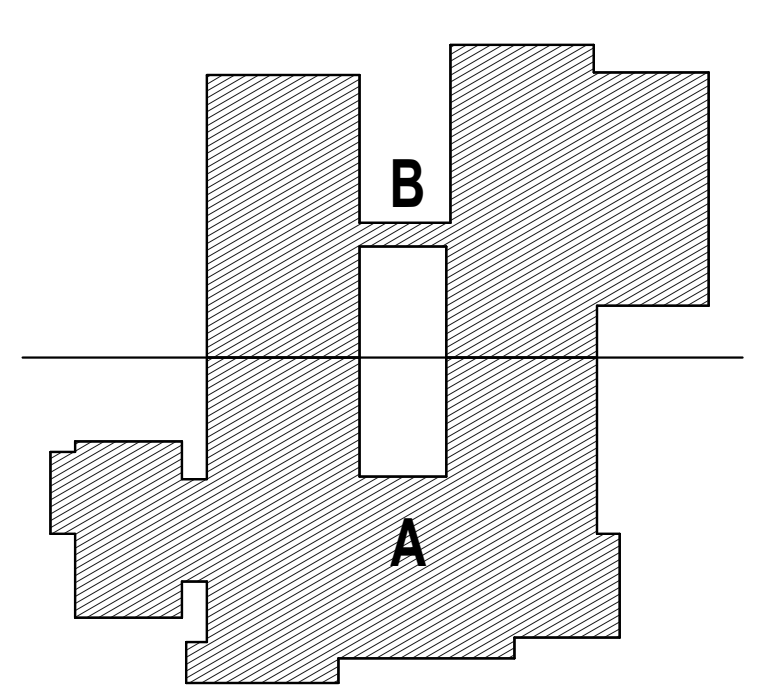
MECH. ROOF PLAN GENERAL NOTES:

- MAINTAIN A MINIMUM DISTANCE OF 10'-0" BETWEEN ALL ROOF MOUNTED EQUIPMENT AND EDGE OF ROOF, WITH THE EXCEPTION OF EQUIPMENT LOCATED WITHIN OR NEAR AN ARCHITECTURAL SCREEN WALL. COORDINATE WITH OTHER TRADES.
- MAINTAIN A MINIMUM DISTANCE OF 25'-0" BETWEEN NEW MECHANICAL OUTDOOR AIR INTAKES (OAI) AND ALL MECHANICAL EXHAUST OR PLUMBING VENTS. INDICATE ALL EXH-AVENTS NEAR THE OAI ON THE COORDINATION SHOP DRAWINGS. WHERE THE LOCATION OF THE EQUIPMENT CANNOT SATISFY THE ABOVE REQUIREMENT, THE MC SHALL COORDINATE WITH WORK BY OTHER SECTION DIVISIONS TO EXTEND ANY EXH-AVENTS SO THE DISCHARGE IS 3'-0" HIGHER THAN THE OAI. EXTENSIONS SHALL BE FULLY SECURED AND/OR SUPPORTED TO THE BUILDING STRUCTURE TO WITHSTAND WIND FORCES PER THE BUILDING CODE. THE MEANS BY WHICH THE EXH-AVENT DISCHARGE IS TO BE MODIFIED SHALL BE DELEGATED TO ITS RESPECTIVE CONTRACTOR(S).

MECH. PIPING ROOF PLAN KEY NOTES:

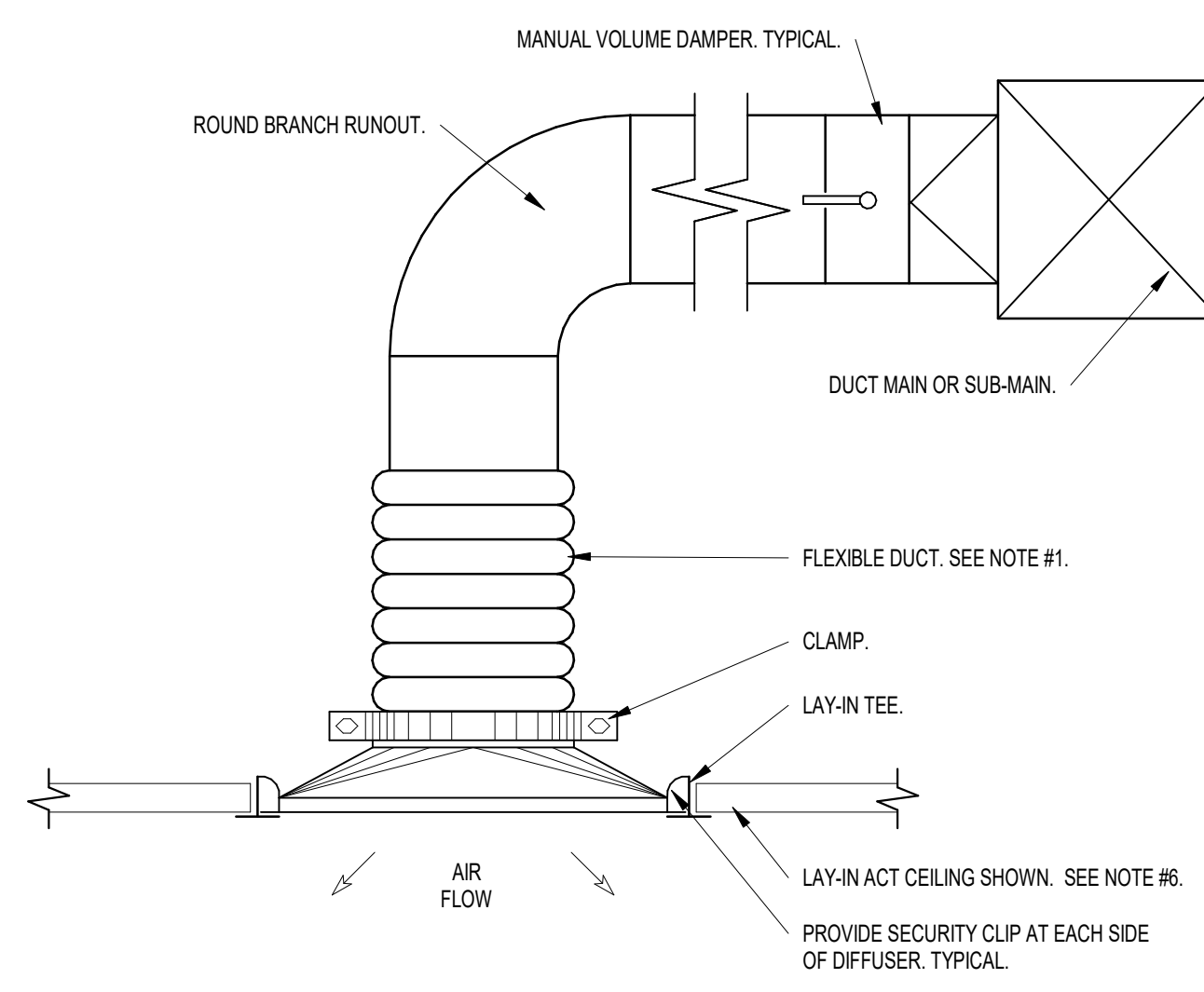
- (NOT ALL KEY NOTES APPEAR ON THIS SHEET)
- THE EXISTING HVAC EQUIPMENT AND ITS APPURTENANCES THEREOF SHALL REMAIN.
 - PROVIDE FINAL GAS CONNECTION TO ROOF TOP UNIT. INSTALL GAS SUPPLY PIPE COMPLETE WITH SHUT-OFF VALVE, 5' DIRT LEG, AND UNION.
 - REFRIGERANT PIPING SIZES SHALL BE BY UNIT MANUFACTURER BASED ON THE FINAL APPROVED COORDINATION DRAWINGS. INSULATE ALL REFRIGERANT PIPING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - RUN PIPING DOWN THROUGH ROOF IN WEATHERPROOF ENCLOSURE. REFER TO DETAIL ON THE MS SERIES DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE WORK WITH ALL TRADES.
 - RUN PIPING EXPOSED ALONG THE ROOF ON SUPPORTS. WHERE POSSIBLE, COORDINATE SUPPORT LOCATIONS TO COINCIDE WITH THE ROOF STRUCTURAL STEEL (I.E. BEAMS/GIRTS). LOCATE SUPPORTS A MAXIMUM OF 10'-0" O.C. REFER TO DETAIL ON THE MS SERIES DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE MSC. STEEL BELOW ROOF AT SUPPORT LOCATIONS NOT SUPPORTED BY THE ROOF'S STRUCTURAL STEEL.

KEY PLAN



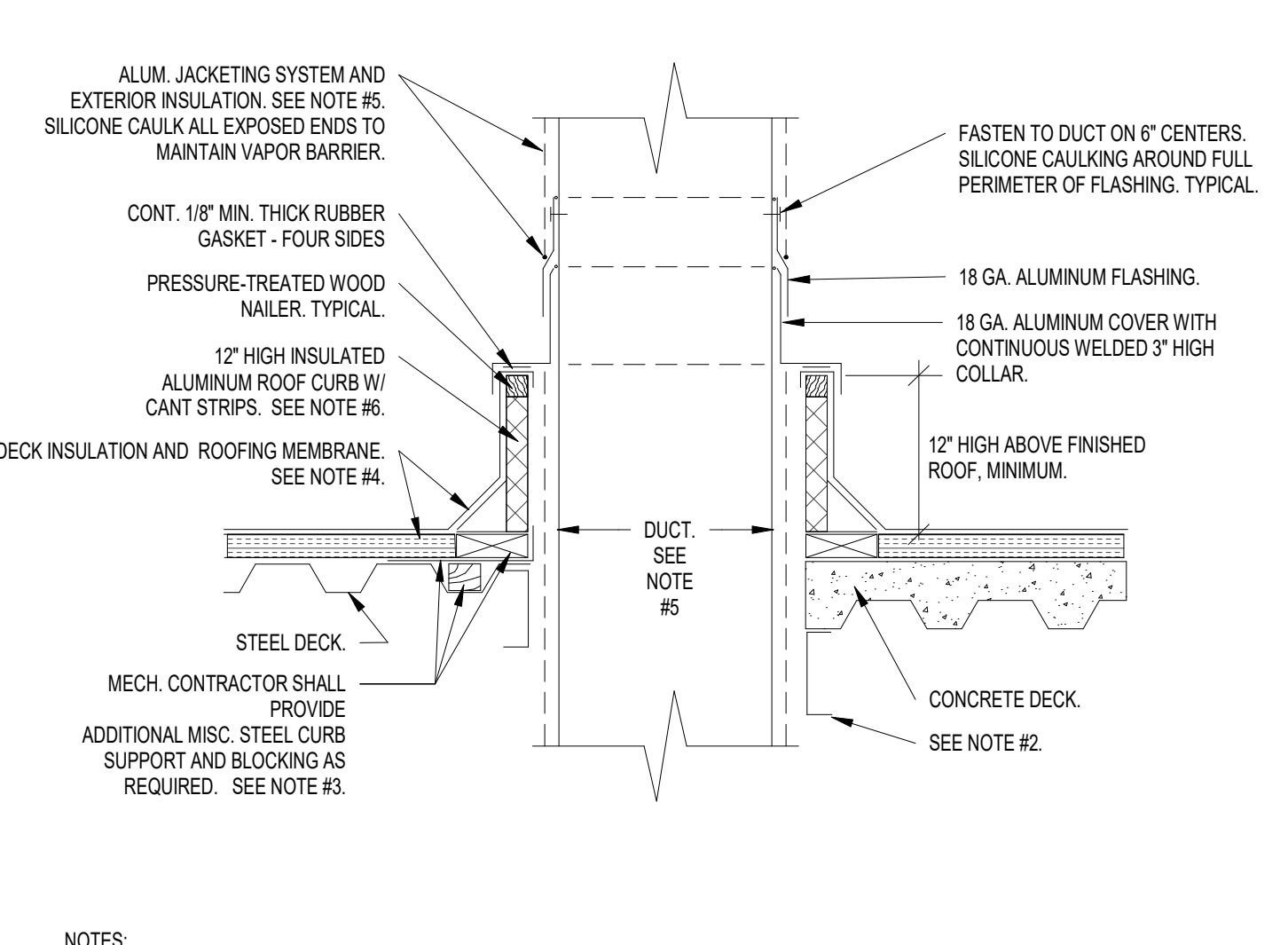
REVISIONS	DESCRIPTION	NO	DATE

Designed:	RF/EX
Drawn:	EX
Reviewed:	JW/P
Project No.:	230105
Date:	09/20/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	OVERALL ROOF MECHANICAL PIPING PLAN
Sheet No.:	M102.2



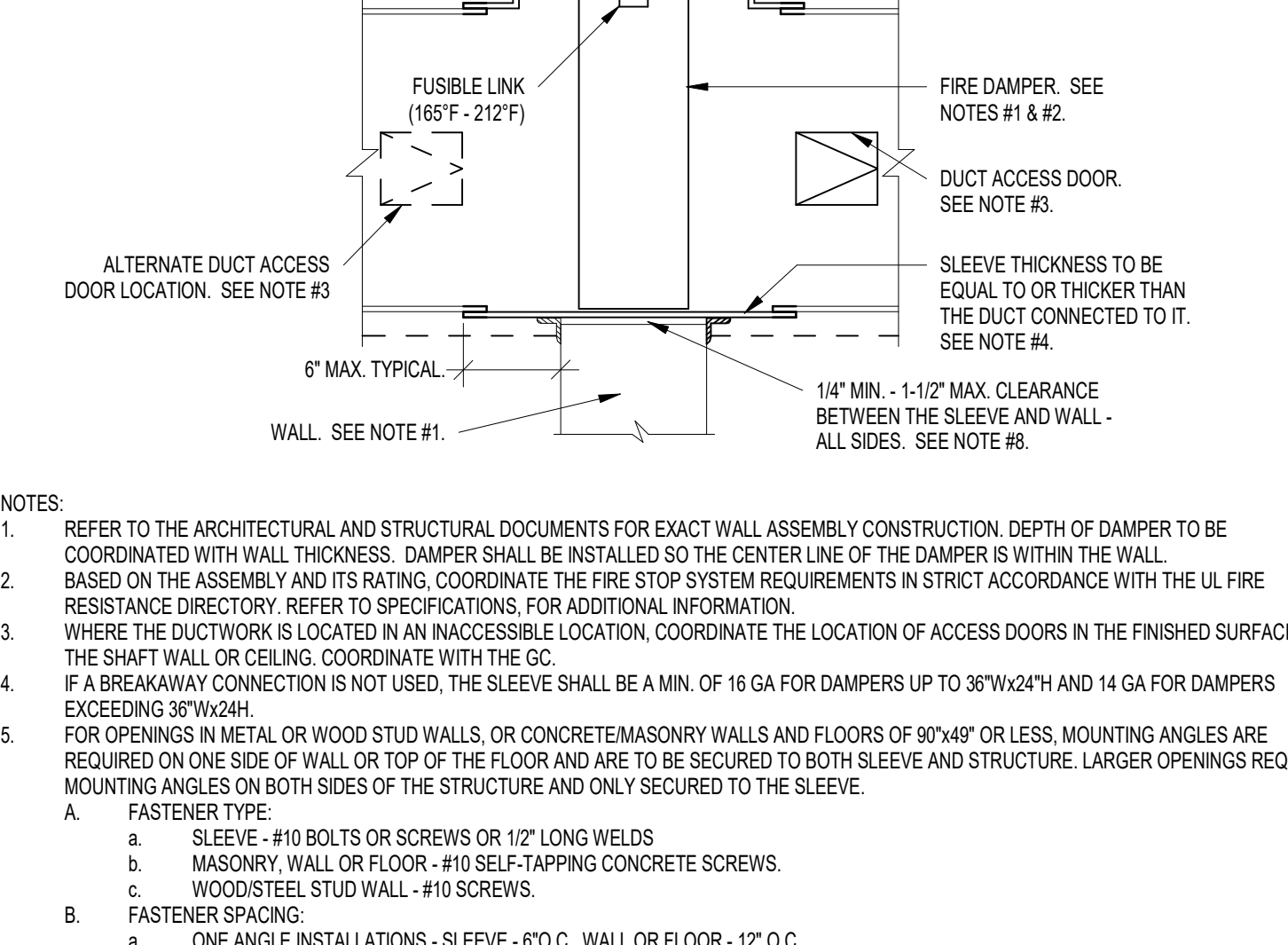
NOTES:
1. FLEX DUCTWORK SHALL BE A MAXIMUM OF 6' L.
2. IN AREAS WITH GYPSUM BOARD CEILINGS, NO FLEXIBLE DUCTWORK SHALL BE PERMITTED.
3. PROVIDE AN OPPOSED BLADE DAMPER FOR ALL AIR DEVICES. REFER TO AIR DEVICE SCHEDULE.
4. CEILING DIFFUSERS SHALL BE A-WAY, LON.
5. PROVIDE INSULATED BLANKET ON TOP OF DIFFUSER.
6. REFER TO THE AIR DEVICE SCHEDULE FOR MOUNTING TYPE. COORDINATE CEILING TYPE WITH THE ARCH. REFLECTED CEILING PLANS.

1 CEILING DIFFUSER
12" = 1'-0"



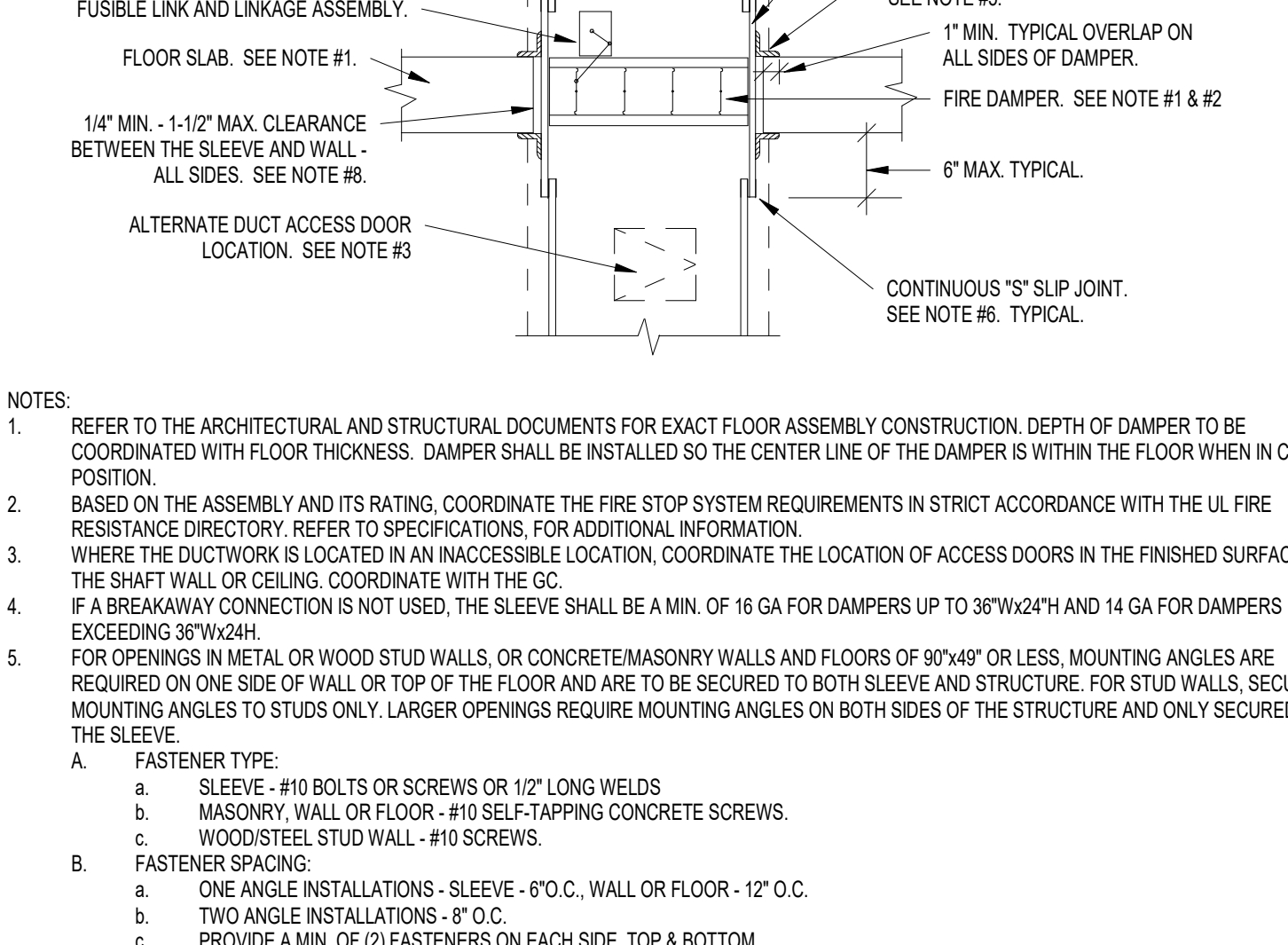
NOTES:
1. REFER TO ARCH. DWGS. FOR EXACT ROOF CONSTRUCTION.
2. REFER TO STRUCT. DWGS. FOR ADDITIONAL INFORMATION REGARDING ROOF OPENING FRAMING.
3. PROVIDE THE PRESSURE-TREATED BLOCKING UNDER THE CURB, AND RAISE THE CURB TO ACCOMMODATE THE THICKNESS OF THE ROOF INSULATION. SECURE BLOCKING TO THE ROOF STRUCTURE WITH LOAD RATED, RUSTPROOF FASTENERS.
4. ROOFING BY GC.
5. PROVIDE APPROPRIATE INSULATION AND JACKETING AS REQUIRED PER THE SPECIFICATIONS.
6. WHEN THE CURB IS TO BE INSTALLED ON A PITCHED ROOF, THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE CURB MANUFACTURER TO PROVIDE A PITCHED CURB TO MATCH THE PITCH OF THE ROOF.

2 DUCT PENETRATIONS AT ROOF
1/8" = 1'-0"



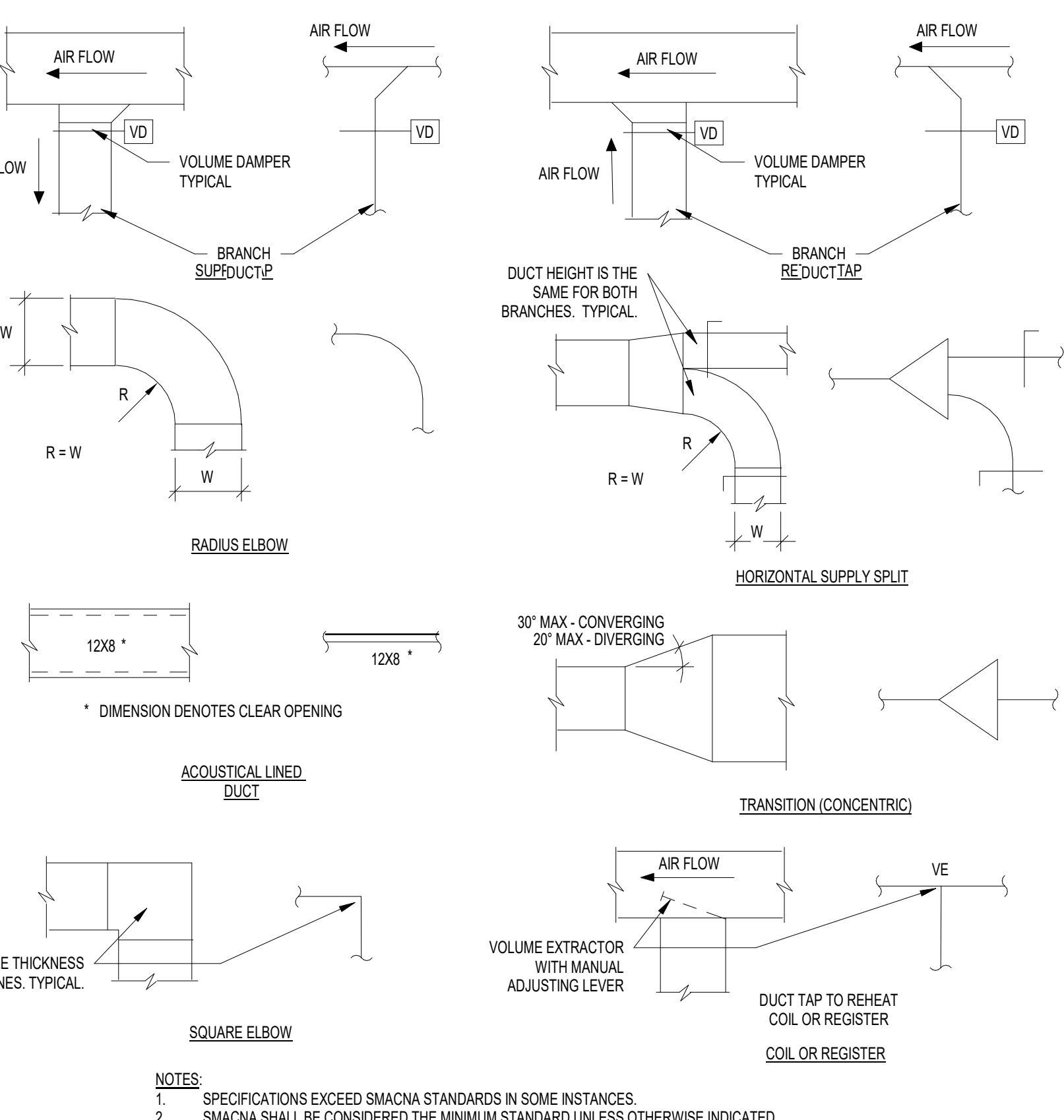
NOTES:
1. REFER TO THE ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR EXACT WALL ASSEMBLY CONSTRUCTION. DEPTH OF DAMPER TO BE COORDINATED WITH WALL THICKNESS. DAMPER SHALL BE INSTALLED SO THE CENTER LINE OF THE DAMPER IS WITHIN THE WALL.
2. BASED ON THE ASSEMBLY AND ITS RATING, COORDINATE THE FIRE STOP SYSTEM REQUIREMENTS IN STRICT ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. WHERE THE DUCTWORK IS LOCATED IN AN INACCESSIBLE LOCATION, COORDINATE THE LOCATION OF ACCESS DOORS IN THE FINISHED SURFACE OF THE SHAFT WALL OR CEILING. COORDINATE WITH THE GC.
4. IF A BREAKAWAY CONNECTION IS NOT USED, THE SLEEVE SHALL BE A MIN. OF 16 GA. FOR DAMPERS UP TO 36"Wx24"H AND 14 GA. FOR DAMPERS EXCEEDING 36"Wx24"H.
5. FOR OPENINGS IN METAL OR WOOD STUD WALLS, OR CONCRETE/MASONRY WALLS AND FLOORS OF 90Wx9" OR LESS, MOUNTING ANGLES ARE REQUIRED ON ONE SIDE OF WALL OR TOP OF THE FLOOR AND ARE TO BE SECURED TO BOTH SLEEVE AND STRUCTURE. LARGER OPENINGS REQUIRE MOUNTING ANGLES ON BOTH SIDES OF THE STRUCTURE AND ONLY SECURED TO THE SLEEVE.
A. FASTENER TYPE:
a. SLEEVE - #10 BOLTS OR SCREWS OR 12" LONG WELDS
b. MASONRY, WALL OR FLOOR - #10 SELF-TAPPING CONCRETE SCREWS
c. WOOD/STEEL STUD WALL - #10 SCREWS
B. FASTENER SPACING:
a. ONE ANGLE INSTALLATIONS - SLEEVE - 6" O.C., WALL OR FLOOR - 12" O.C.
b. TWO ANGLE INSTALLATIONS - 8" O.C.
c. PROVIDE A MIN. OF (2) FASTENERS ON EACH SIDE, TOP & BOTTOM
6. ALTERNATE METHOD FOR BREAK-AWAY CONNECTIONS: MAY BE FLANGED CONNECTION SYSTEMS SIMILAR TO DUCTMATE, NEXUS OR WARD WHEN INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. IN ACCORDANCE WITH THE ASSEMBLY'S UL APPROVAL.
7. THE MECH. CONTRACTOR SHALL COORDINATE THE REQUIREMENT OF MULTIPLE SECTION DAMPER ASSEMBLIES BASED ON DAMPER LIMITATIONS. PROVIDE NECESSARY REINFORCING STRUCTURE FOR ALL MULTIPLE SECTION DAMPER ASSEMBLIES IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
8. DO NOT INSTALL ANY FIRESTOPPING MATERIALS OF ANY KIND IN THE ANNULAR SPACE BETWEEN THE DAMPER SLEEVE AND THE WALL.

3 VERTICAL FIRE DAMPER
12" = 1'-0"

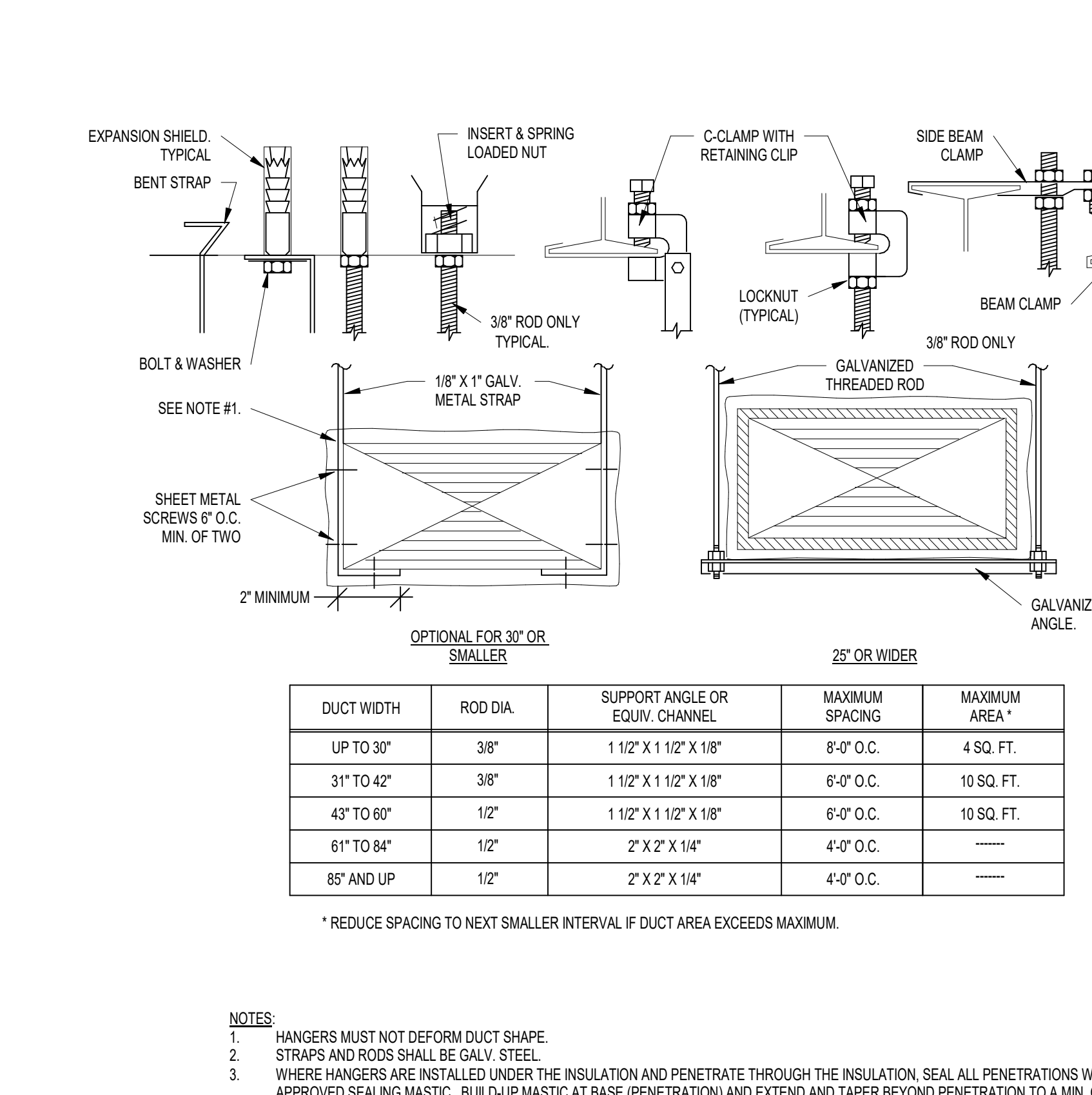


NOTES:
1. REFER TO THE ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR EXACT WALL ASSEMBLY CONSTRUCTION. DEPTH OF DAMPER TO BE COORDINATED WITH WALL THICKNESS. DAMPER SHALL BE INSTALLED SO THE CENTER LINE OF THE DAMPER IS WITHIN THE FLOOR WHEN IN CLOSED POSITION.
2. BASED ON THE ASSEMBLY AND ITS RATING, COORDINATE THE FIRE STOP SYSTEM REQUIREMENTS IN STRICT ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. WHERE THE DUCTWORK IS LOCATED IN AN INACCESSIBLE LOCATION, COORDINATE THE LOCATION OF ACCESS DOORS IN THE FINISHED SURFACE OF THE SHAFT WALL OR CEILING. COORDINATE WITH THE GC.
4. IF A BREAKAWAY CONNECTION IS NOT USED, THE SLEEVE SHALL BE A MIN. OF 16 GA. FOR DAMPERS UP TO 36"Wx24"H AND 14 GA. FOR DAMPERS EXCEEDING 36"Wx24"H.
5. FOR OPENINGS IN METAL OR WOOD STUD WALLS, OR CONCRETE/MASONRY WALLS AND FLOORS OF 90Wx9" OR LESS, MOUNTING ANGLES ARE REQUIRED ON ONE SIDE OF WALL OR TOP OF THE FLOOR AND ARE TO BE SECURED TO BOTH SLEEVE AND STRUCTURE. LARGER OPENINGS REQUIRE MOUNTING ANGLES TO STUDS ONLY. LARGER OPENINGS REQUIRE MOUNTING ANGLES ON BOTH SIDES OF THE STRUCTURE AND ONLY SECURED TO THE SLEEVE.
A. FASTENER TYPE:
a. SLEEVE - #10 BOLTS OR SCREWS OR 12" LONG WELDS
b. MASONRY, WALL OR FLOOR - #10 SELF-TAPPING CONCRETE SCREWS
c. WOOD/STEEL STUD WALL - #10 SCREWS
B. FASTENER SPACING:
a. ONE ANGLE INSTALLATIONS - SLEEVE - 6" O.C., WALL OR FLOOR - 12" O.C.
b. TWO ANGLE INSTALLATIONS - 8" O.C.
c. PROVIDE A MIN. OF (2) FASTENERS ON EACH SIDE, TOP & BOTTOM
6. ALTERNATE METHOD FOR BREAK-AWAY CONNECTIONS: MAY BE FLANGED CONNECTION SYSTEMS SIMILAR TO DUCTMATE, NEXUS OR WARD WHEN INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. IN ACCORDANCE WITH THE ASSEMBLY'S UL APPROVAL.
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8. DO NOT INSTALL ANY FIRESTOPPING MATERIALS OF ANY KIND IN THE ANNULAR SPACE BETWEEN THE DAMPER SLEEVE AND THE FLOOR.

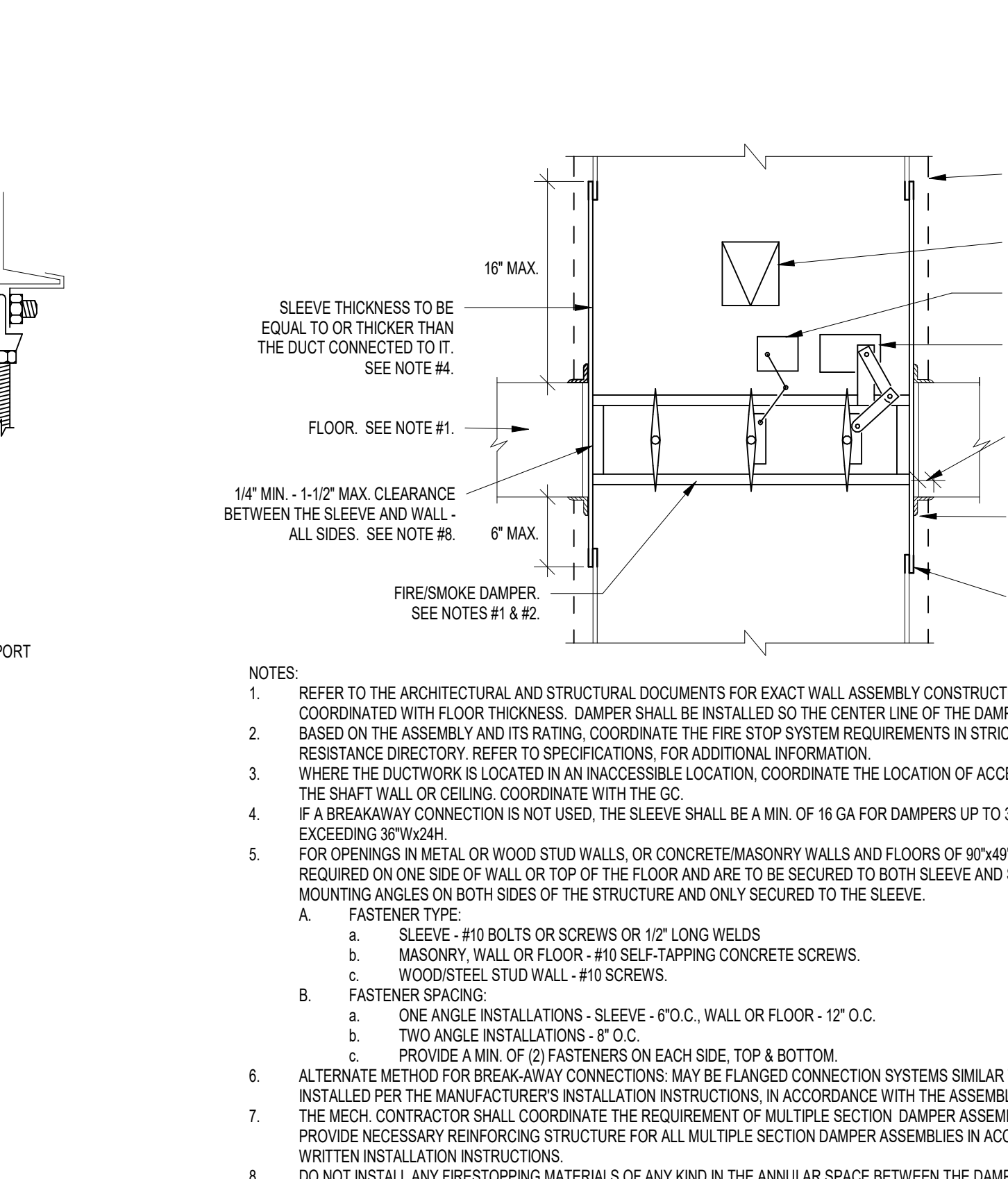
4 HORIZONTAL FIRE DAMPER
1/8" = 1'-0"



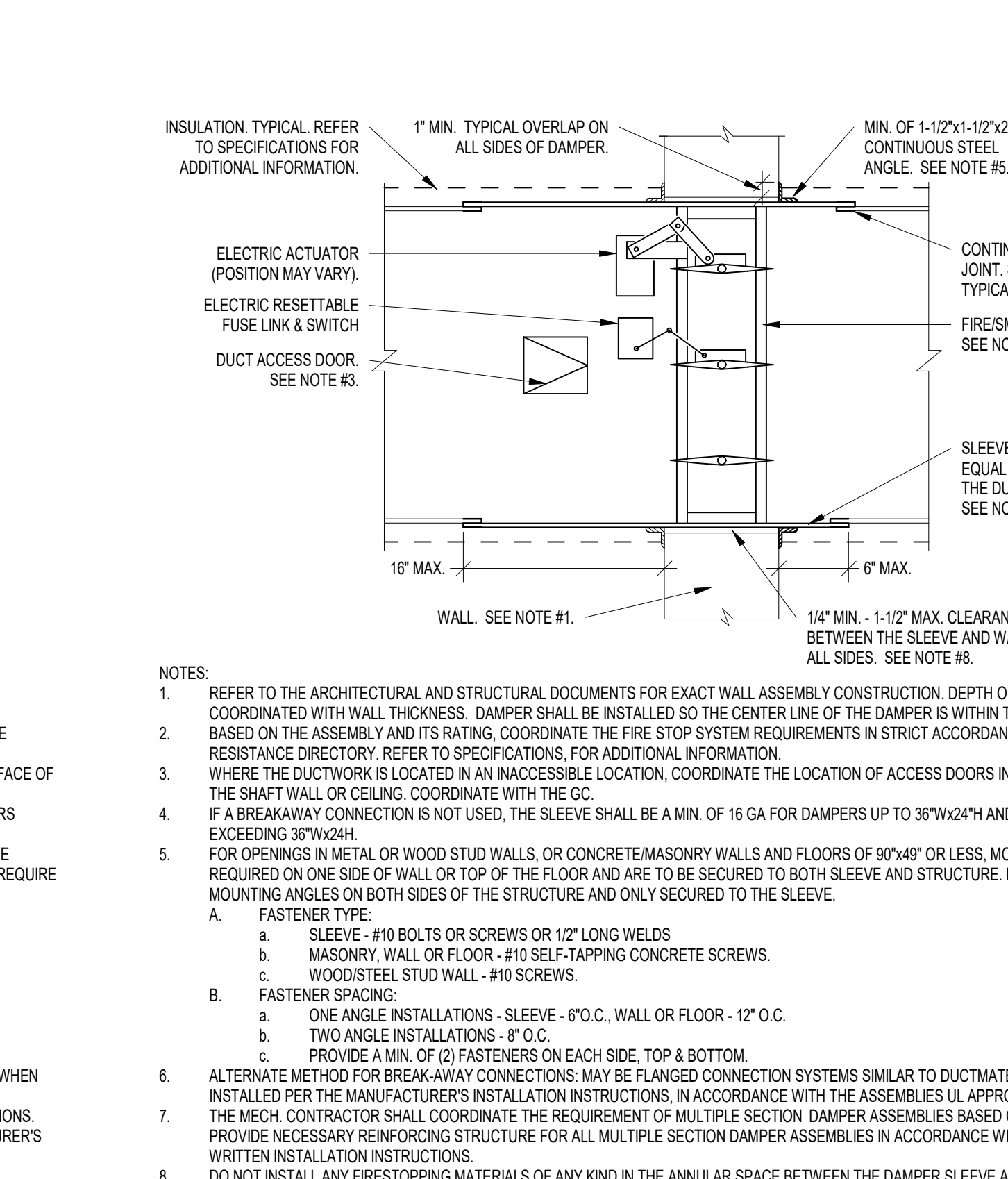
5 RECTANGULAR DUCT CONSTRUCTION
12" = 1'-0"



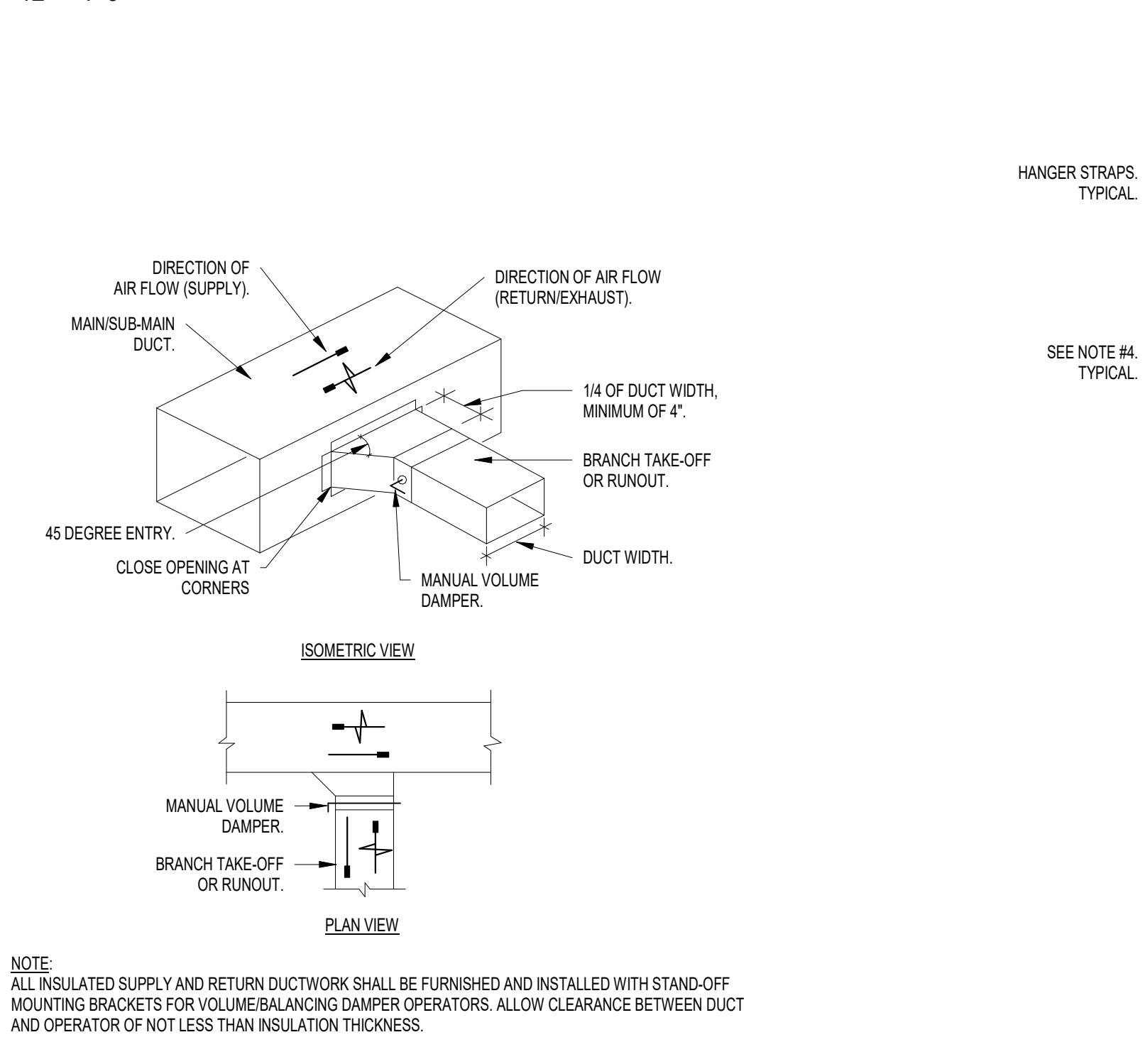
6 RECTANGULAR DUCT SUPPORT
12" = 1'-0"



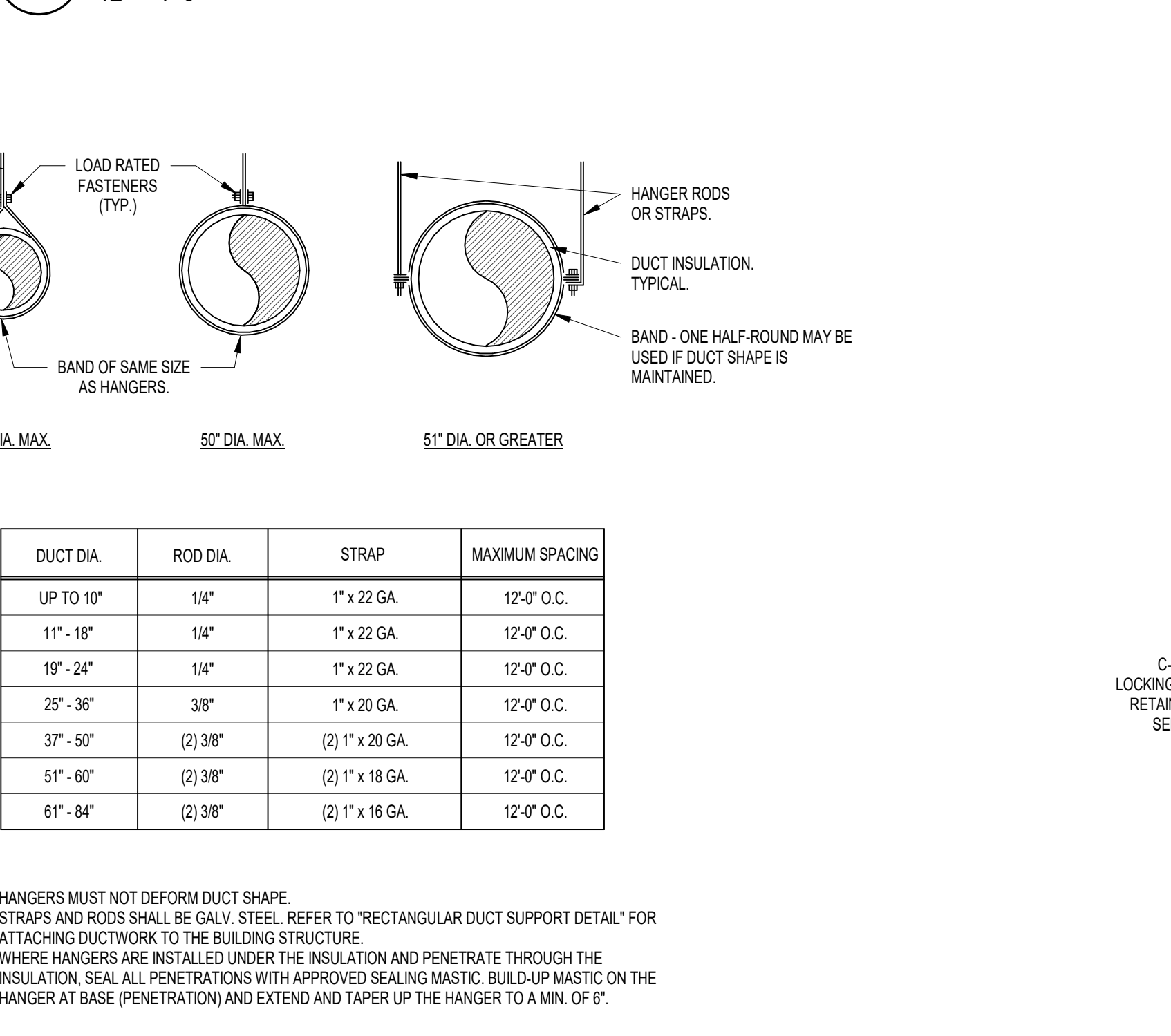
7 VERTICAL COMBINATION FIRE/SMOKE DAMPER
12" = 1'-0"



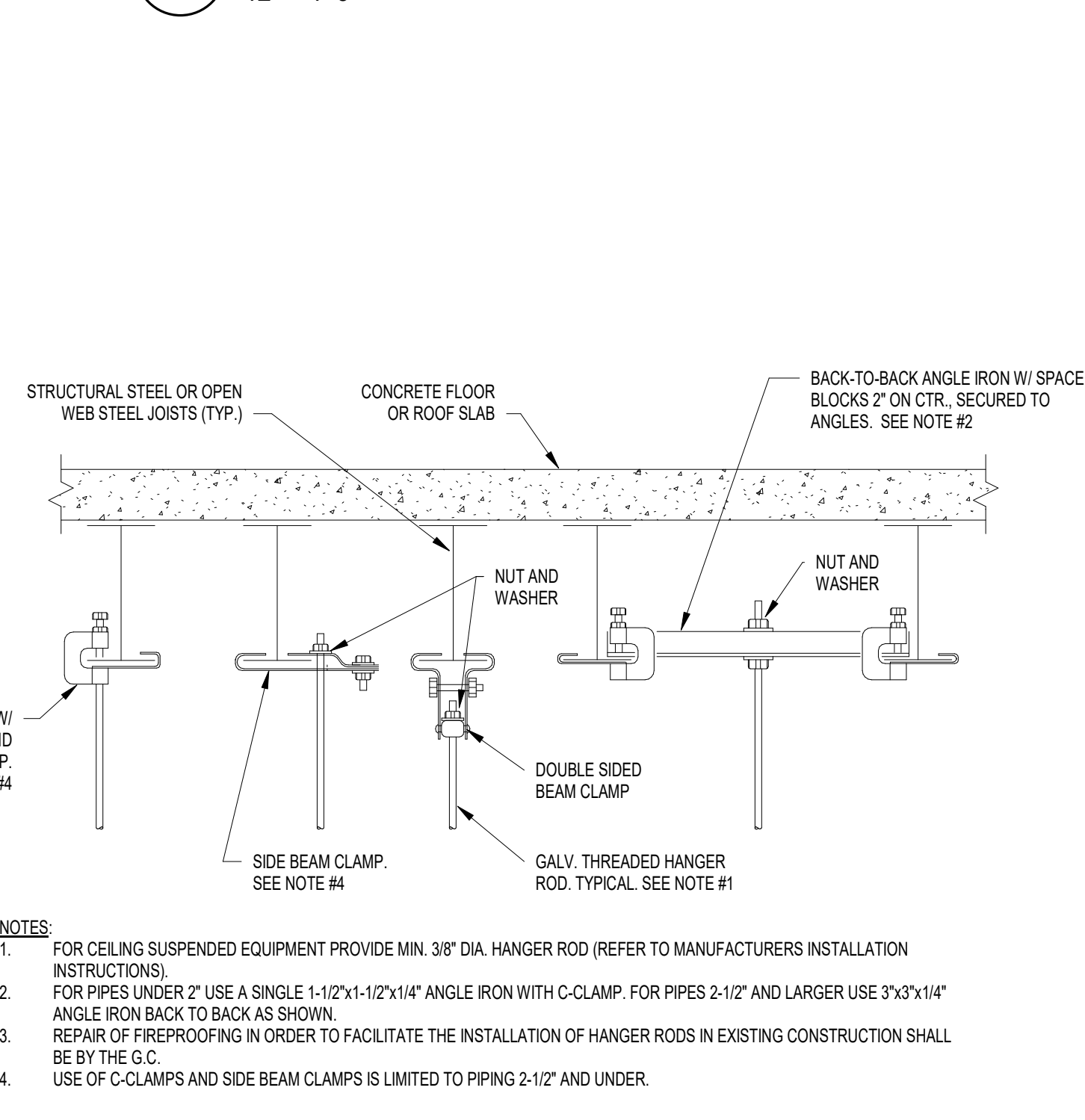
8 HORIZONTAL COMBINATION FIRE/SMOKE DAMPER
12" = 1'-0"



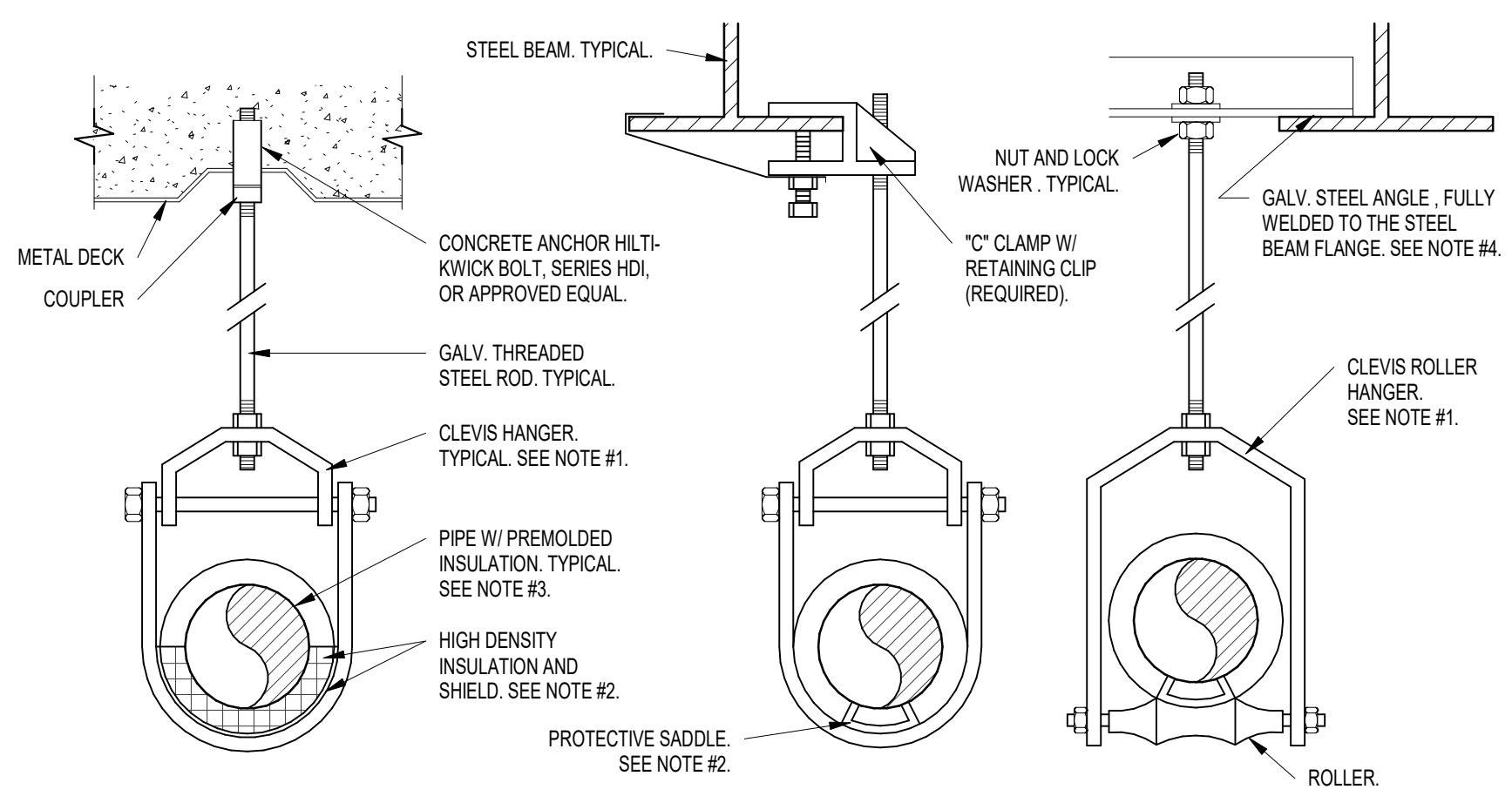
9 DUCT TAKE OFF DETAIL
12" = 1'-0"



10 ROUND DUCT SUPPORT
12" = 1'-0"



11 TYP METHOD OF SECURING HANGER RODS TO STRUCTURAL STEEL
1/8" = 1'-0"

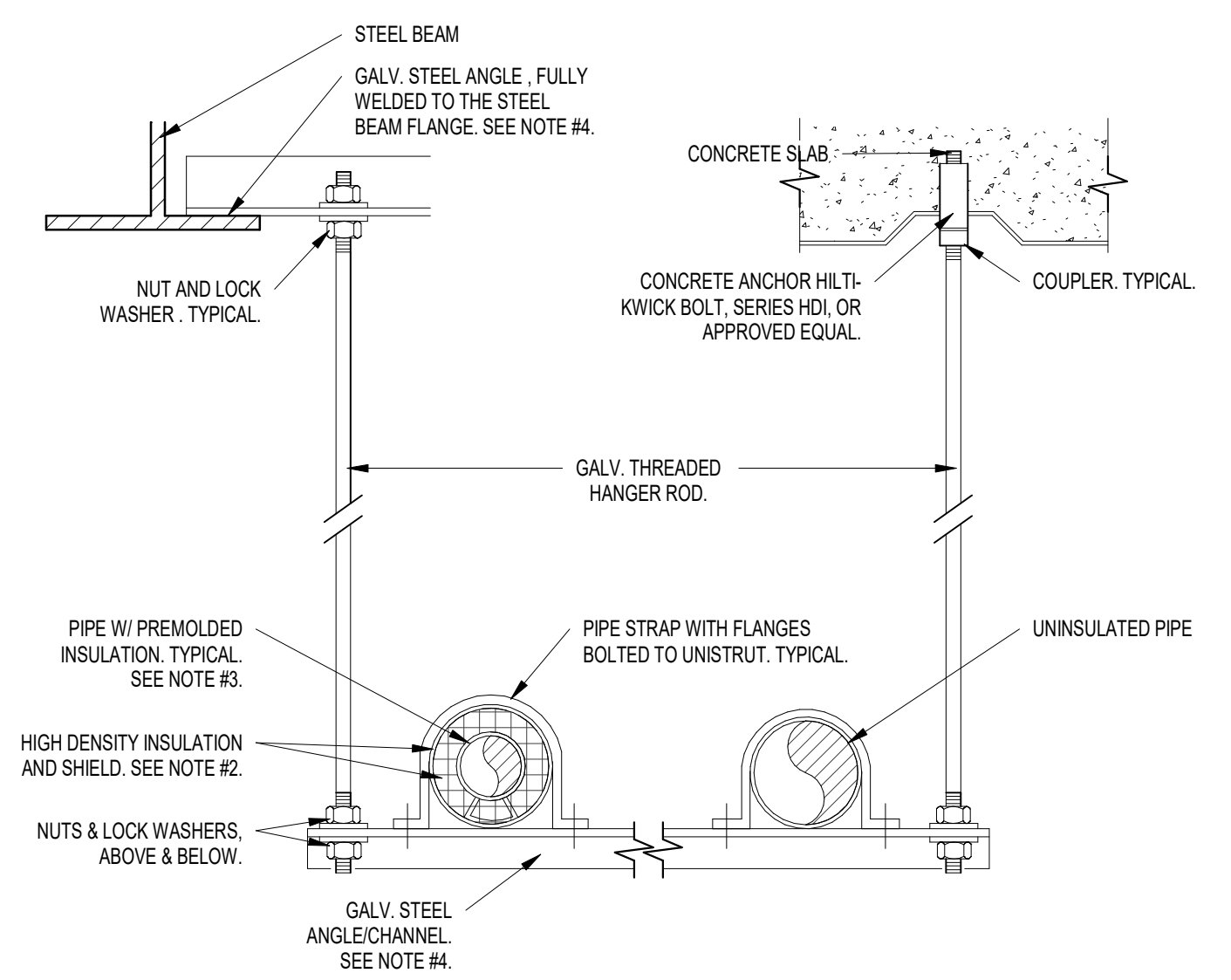


PIPE SIZE (IN)	UP TO 1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
MAX ALLOWABLE SPACING (FT)	7	8	9	10	11	12	14	16	17	19	20	23

PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.
2-1/2" THRU 3"	1/2" DIA.	6" THRU 12"	7/8" DIA.

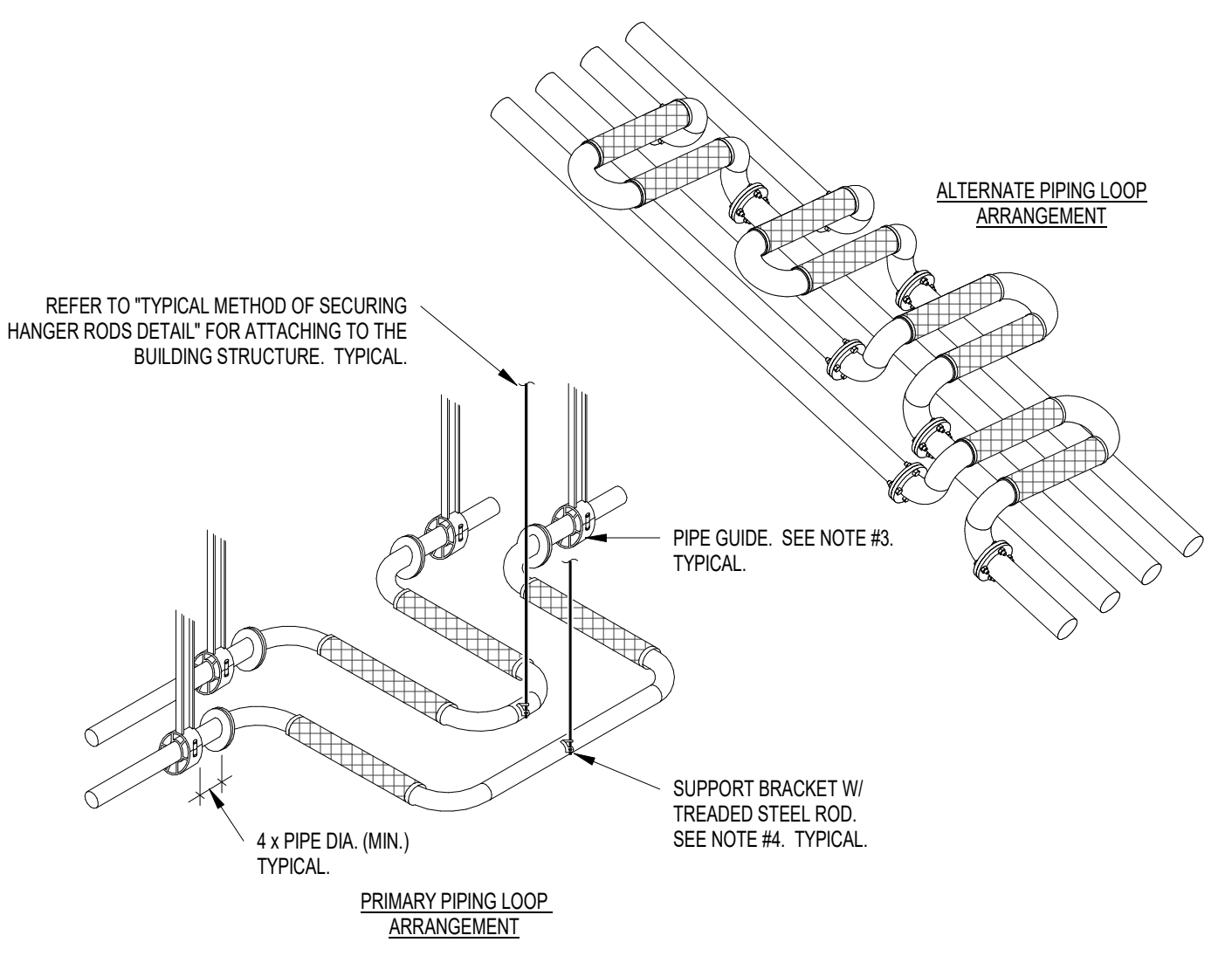
- NOTES:
- CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1" GENERAL PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.
 - FOR ALL INSULATED PIPING PROVIDE SEMI-CYLINDRICAL GALVANIZED INSULATION SHIELD AND HIGH DENSITY INSULATION FOR PIPES UP TO 2", OR PROTECTIVE PIPE SADDLE FOR PIPES 2.5" & OVER. SHIELD AND HD INSULATION SHALL BE A MIN. OF 12" LONG, CENTERED ON HANGER.
 - FOR PIPING SYSTEMS CONVEYING FLUIDS BELOW AMBIENT CONDITIONS, PROVIDE A CONTINUOUS VAPOR BARRIER AROUND ALL INSULATION. INSULATE THE CAVITIES OF ALL PROTECTIVE SADDLES AND CAULK AT ALL JOINTS TO ENSURE THE VAPOR BARRIER INTEGRITY. REFER TO SPECIFICATIONS FOR APPROVED VAPOR BARRIER AND CAULKING.
 - THE STEEL ANGLE CHANNEL SHALL BE SIZED BY A CONTRACTOR DELEGATED DESIGN. THE TOTAL WEIGHT AT EACH HANGER SHALL INCLUDE, BUT NOT LIMITED TO, THE WEIGHT OF THE PIPE WITH LIQUID, INSULATION, SHIELDS, SADDLES, PIPING SUPPORT COMPONENTS, ETC...

1 PIPE HANGER - CLEVIS
12" = 1'-0"



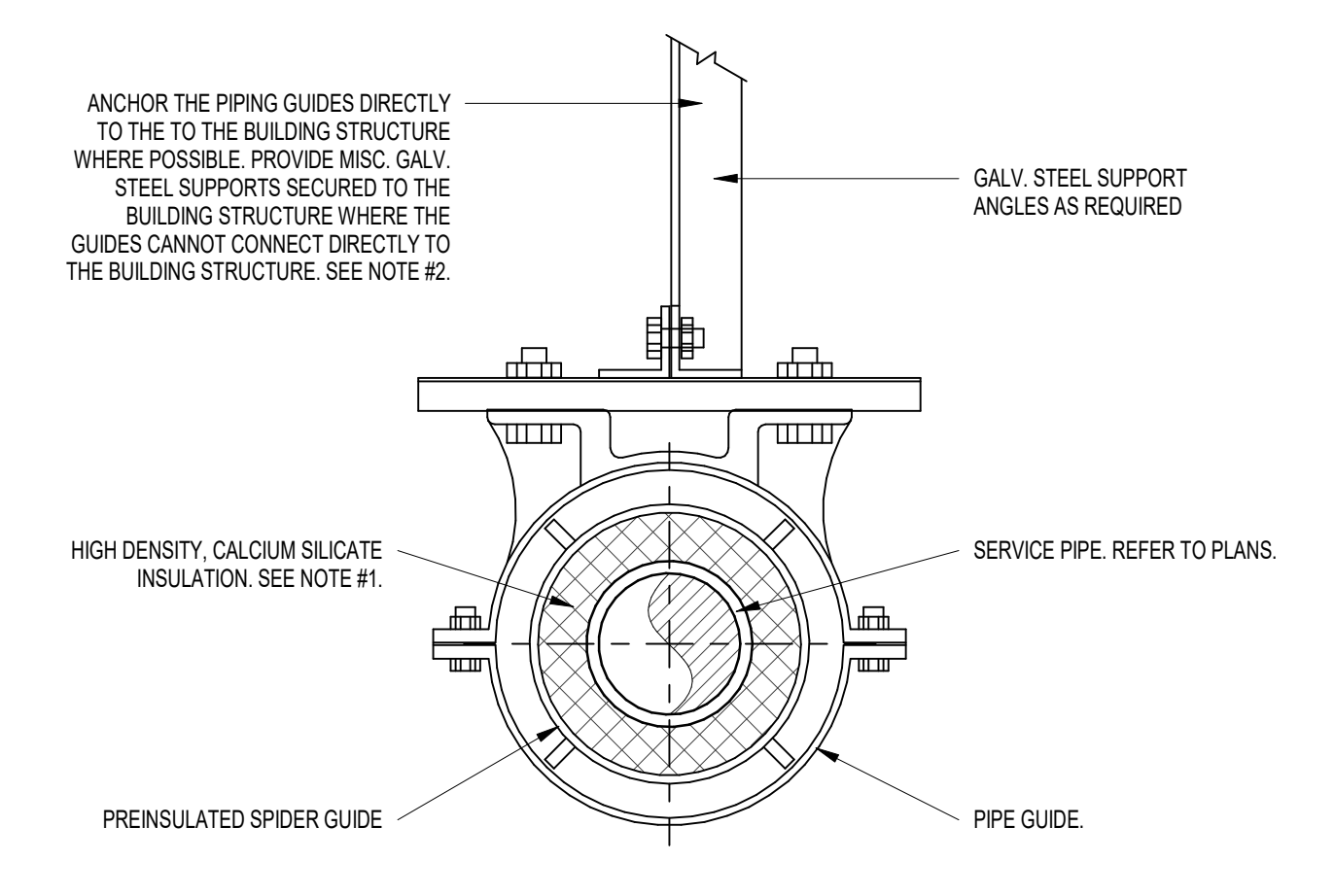
- NOTES:
- HANG FROM FLANGE OF STEEL BEAMS OR TOP CHORD OF JOISTS AT PANEL POINTS ONLY. DO NOT HANG FROM BOTTOM CHORD OF JOISTS OR METAL DECKING.
 - FOR ALL INSULATED PIPING PROVIDE FULLY-CYLINDRICAL (360°) GALVANIZED INSULATION SHIELD AND HIGH DENSITY INSULATION FOR PIPES UP TO 2", OR PROTECTIVE PIPE SADDLE FOR PIPES 2.5" & OVER. SHIELD AND HD INSULATION SHALL BE A MIN. OF 12" LONG, CENTERED ON HANGER.
 - FOR PIPING SYSTEMS CONVEYING FLUIDS BELOW AMBIENT CONDITIONS, PROVIDE A CONTINUOUS VAPOR BARRIER AROUND ALL INSULATION. INSULATE THE CAVITIES OF ALL PROTECTIVE SADDLES AND CAULK AT ALL JOINTS TO ENSURE THE VAPOR BARRIER INTEGRITY. REFER TO SPECIFICATIONS FOR APPROVED VAPOR BARRIER AND CAULKING.
 - COORDINATE THE NUMBER OF PIPES REQUIRED PER TRAPEZE. THE STEEL ANGLE CHANNEL SHALL BE SIZED BY A CONTRACTOR DELEGATED DESIGN. THE TOTAL WEIGHT AT EACH HANGER SHALL INCLUDE, BUT NOT LIMITED TO, THE WEIGHT OF THE PIPE WITH LIQUID, INSULATION, SHIELDS, SADDLES, PIPING SUPPORT COMPONENTS, ETC...

2 PIPE HANGING - TRAPEZE
12" = 1'-0"



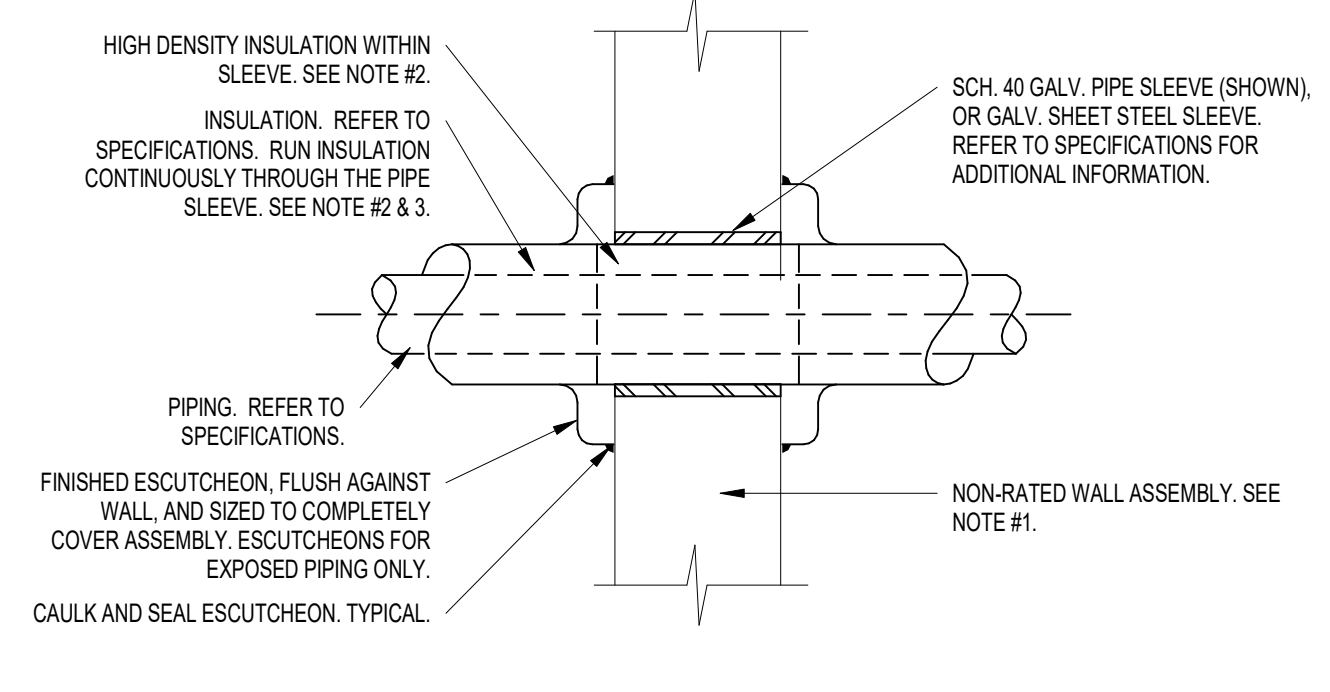
- NOTES:
- THE MECHANICAL CONTRACTOR SHALL COORDINATE AND INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.
 - PROVIDE A CLOSED CELL FLEXIBLE INSULATION ON ALL BRAIDED FLEXIBLE PIPING. INSULATE REMAINING PIPING AS INDICATED IN THE SPECIFICATIONS. MAINTAIN A CONTINUOUS VAPOR BARRIER AT ALL INSULATION BUTT JOINTS AND SEAMS.
 - REFER TO PIPE GUIDE ARRANGEMENT DETAIL FOR ADDITIONAL INFORMATION. INSULATION SHALL BE INSTALLED TO MAINTAIN PROPER VAPOR BARRIER WITHOUT INHIBITING, RESTRICTING OR PREVENTING MOVEMENT OF THE FLEXIBLE LOOP.
 - PROVIDE A COMBINATION SPRING AND NEOPRENE TYPE HANGER, FOR EACH SUPPORT. THE HANGER SHALL PROVIDE A MIN. OF 30" ROD SWING TO ALLOW FOR FLEXIBLE LOOP MOVEMENT.
 - COORDINATE WITH EXPANSION LOOP MANUFACTURER TO PROVIDE ADEQUATE LOOP DIMENSIONS THAT WILL SATISFY THE AMOUNT OF EXPANSION AS INDICATED ON THE FLOOR PLANS.

3 FLEXIBLE EXPANSION LOOPS
1/8" = 1'-0"



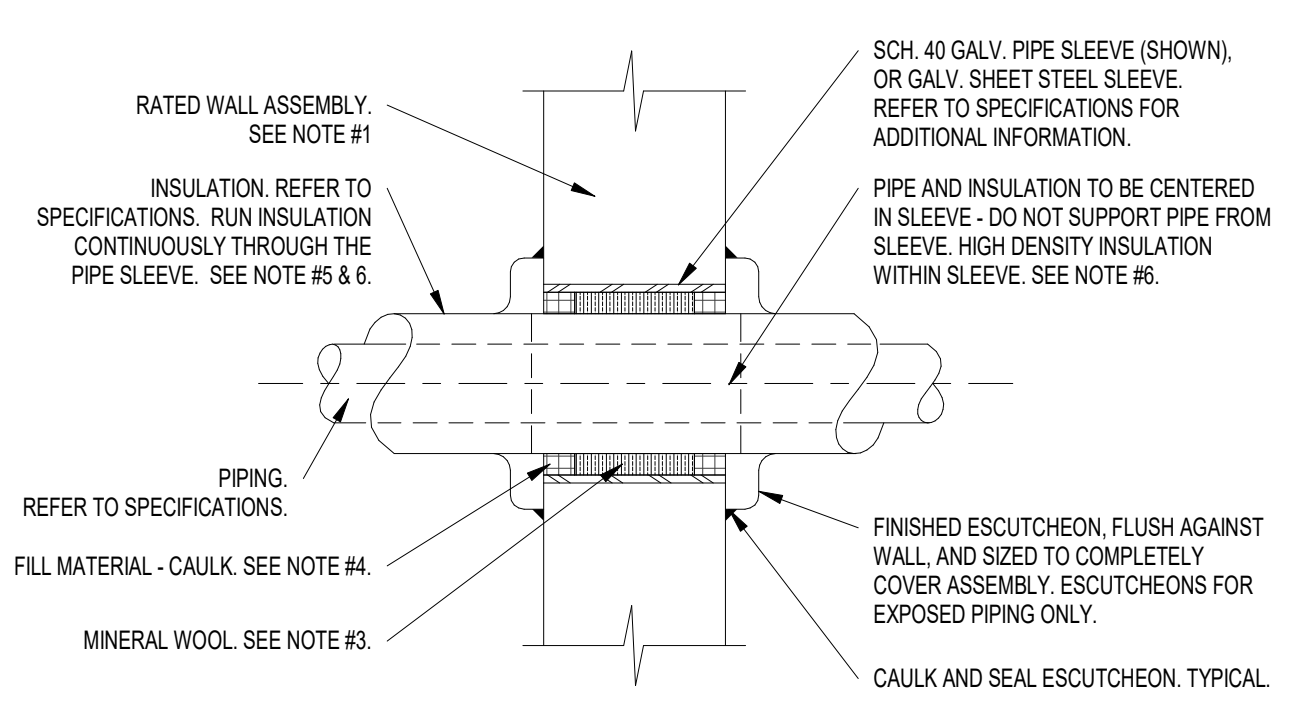
- NOTES:
- PROVIDE A CONTINUOUS VAPOR BARRIER AND INSULATION THICKNESS AS INDICATED IN THE SPECIFICATIONS BASED ON THE SERVICE PIPING.
 - BASED ON PROJECT REQUIREMENTS, PROVIDE SEISMIC BRACING WHERE REQUIRED. THE SEISMIC BRACING SHALL NOT PASS ACROSS A SEISMIC OR EXPANSION JOINT. SEISMIC BRACING SHALL NOT CONNECT TO, OR BE TOGETHER, EITHER SIDE OF THE JOINT. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

4 PIPING GUIDE ARRANGEMENT
12" = 1'-0"



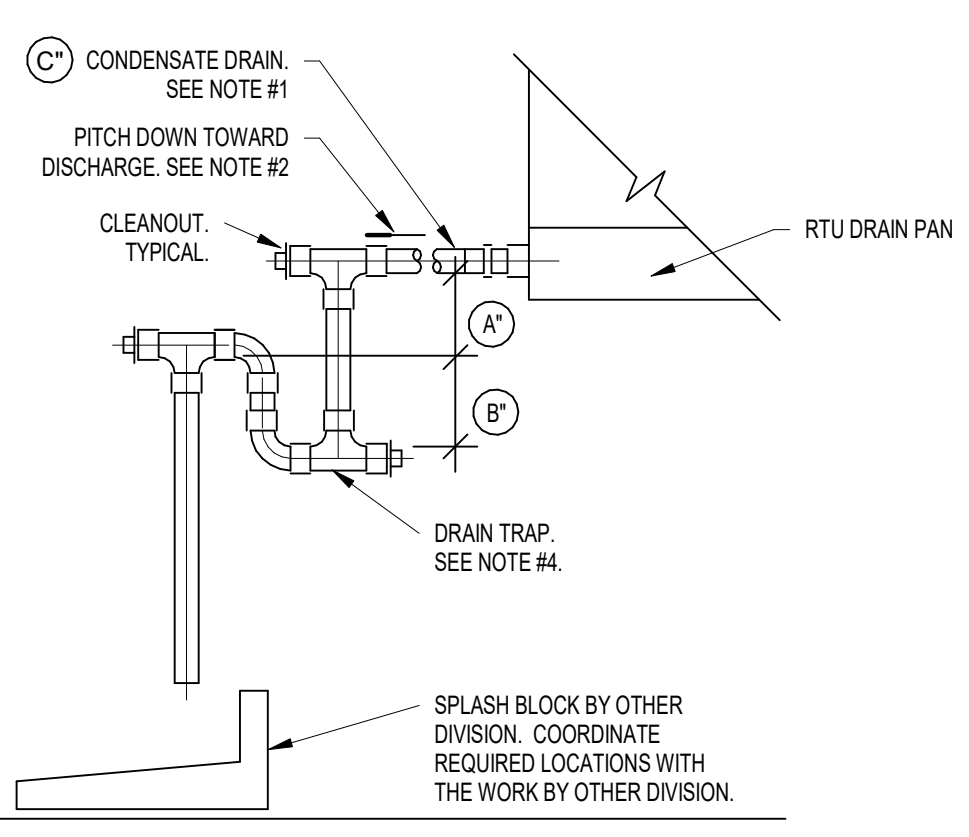
- NOTES:
- REFER TO THE ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR WALL ASSEMBLY CONSTRUCTION.
 - WHERE FLUID CONVEYED THROUGH PIPING IS BELOW AMBIENT TEMP. ALL SEAMS AND JOINTS IN THE INSULATION SHALL BE SEALED TO ENSURE A CONTINUOUS VAPOR BARRIER. REFER TO SPECIFICATIONS.
 - WHERE PIPING IS REQUIRED TO BE INSULATED, PROVIDE MAX 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS, JACKED ON THE OUTSIDE WITH AN ALL-SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH FACTORY APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE PIPE COVERING SHALL MEET THE ABOVE CRITERIA AND BEAR THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD AND SMOKE DEVELOPED INDEX AS NOTED IN THE SPECIFICATIONS.
 - PIPING SHALL BE SUPPORTED ON EITHER SIDE OF WALL. PIPE SUPPORTS SHALL BE COMPLETELY INDEPENDENT OF WALL.

5 PIPING PENETRATIONS AT INTERIOR NON-RATED WALLS
12" = 1'-0"



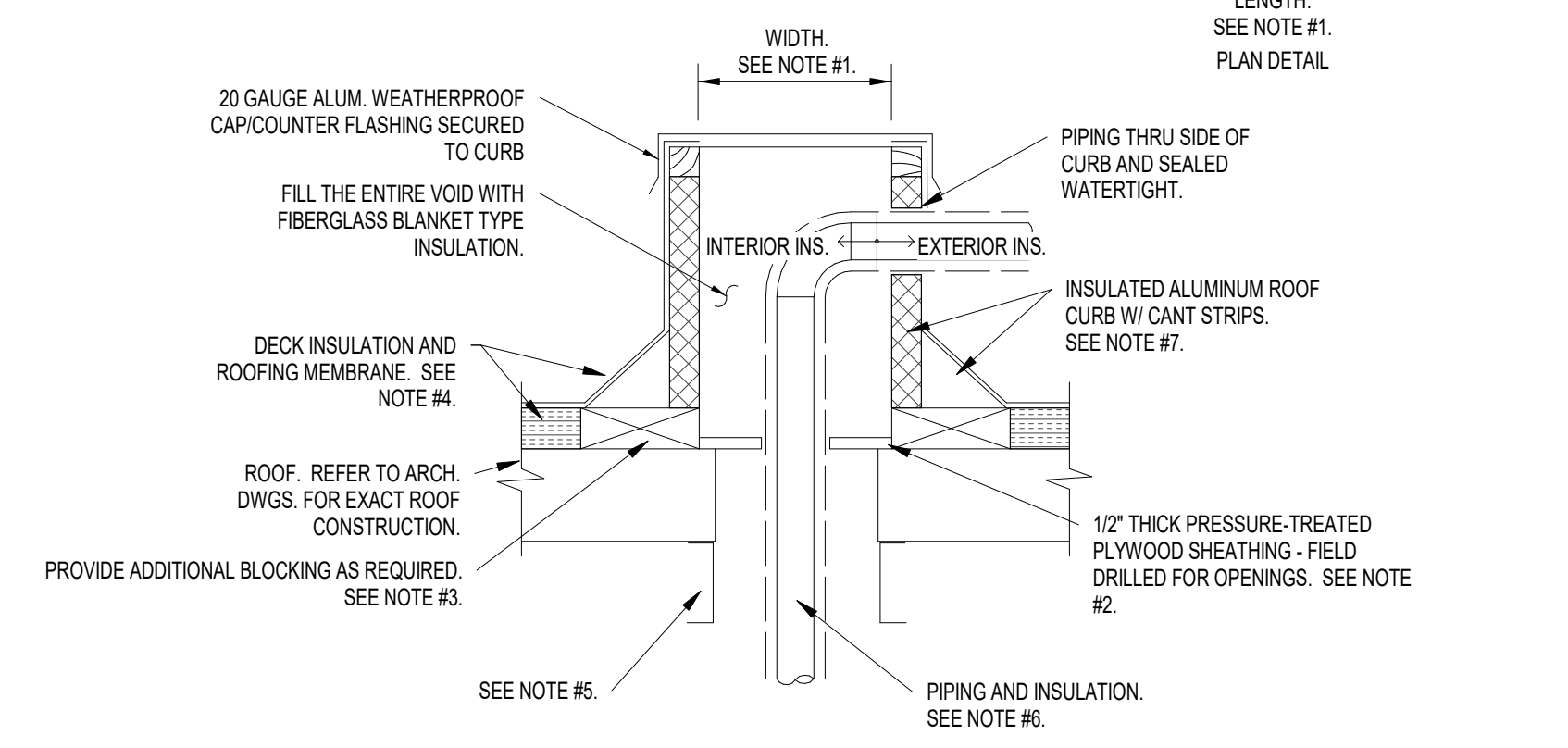
- NOTES:
- REFER TO THE ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR WALL ASSEMBLY CONSTRUCTION.
 - BASED ON THE WALL ASSEMBLY AND ITS RATING, THE MECHANICAL CONTRACTOR SHALL COORDINATE THE FIRE STOP SYSTEM REQUIREMENTS IN STRICT ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY. REFER TO SPECIFICATIONS, DIVISION 7, FOR ADDITIONAL INFORMATION.
 - MIN. 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. THICKNESS IS BASED ON ASSEMBLY RATING. REFER TO NOTE #2. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
 - MIN 1 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH ENDS OF STEEL SLEEVE. WHEN SLEEVE PROJECTS BEYOND SURFACE OF WALL, A BEAD OF CAULK SHALL BE APPLIED TO OUTER PERIMETER OF SLEEVE AT INTERFACE WITH WALL SURFACES. COORDINATE THICKNESS OF BEAD TO SUIT THE FIRE STOP SYSTEM REQUIRED FOR THE ASSEMBLY BEING PENETRATED. REFER TO NOTE #2.
 - WHERE FLUID CONVEYED THROUGH PIPING IS BELOW AMBIENT TEMP. ALL SEAMS AND JOINTS IN THE INSULATION SHALL BE SEALED TO ENSURE A CONTINUOUS VAPOR BARRIER. REFER TO SPECIFICATIONS.
 - WHERE PIPING IS REQUIRED TO BE INSULATED, PROVIDE MAX 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS, JACKED ON THE OUTSIDE WITH AN ALL-SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH FACTORY APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE PERIPHERY OF THE OPENING SHALL BE MIN 1/4 IN. TO MAX 2 IN. THE PIPE COVERING SHALL MEET THE ABOVE CRITERIA AND BEAR THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD AND SMOKE DEVELOPED INDEX AS NOTED IN THE SPECIFICATIONS.
 - PIPING SHALL BE SUPPORTED ON EITHER SIDE OF WALL. PIPE SUPPORTS SHALL BE COMPLETELY INDEPENDENT OF WALL.

6 PIPING PENETRATIONS AT INTERIOR RATED WALLS
1/8" = 1'-0"



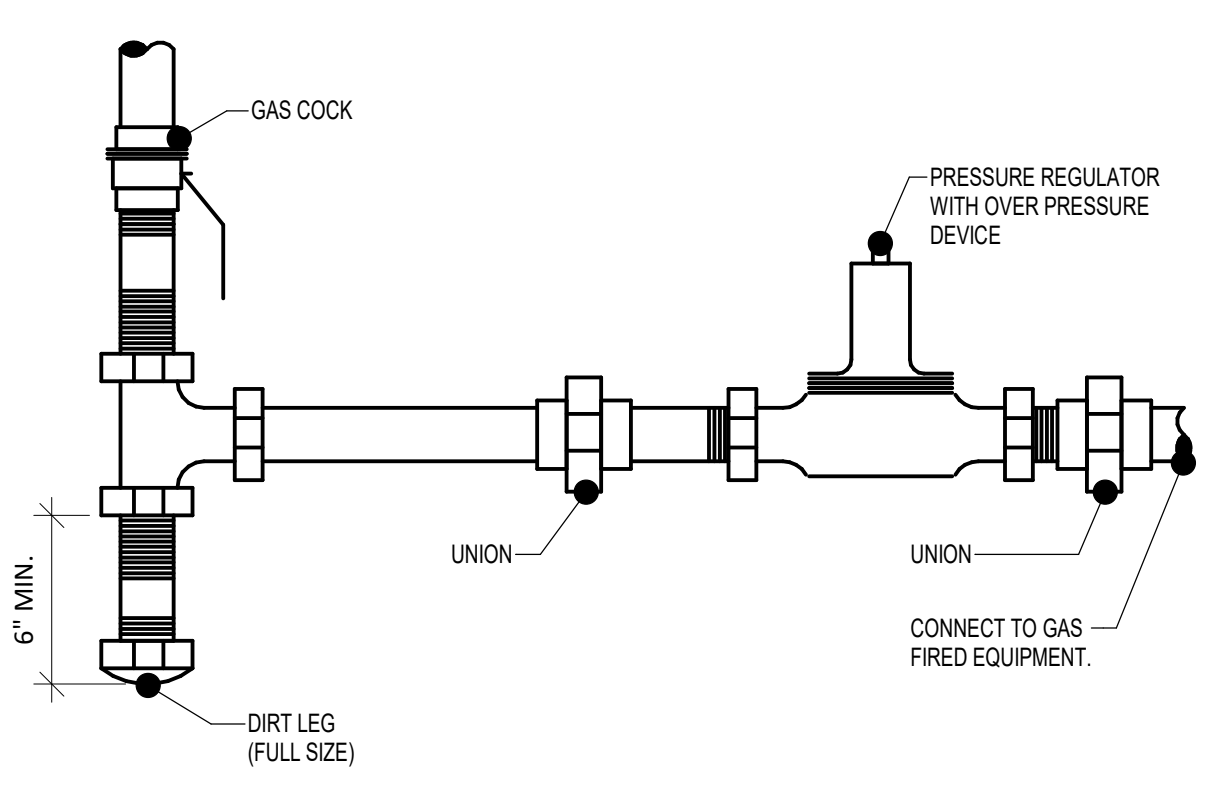
- NOTES:
- DRAIN THRU UNITS:
- A EQUALS 2 PLUS DRAIN PAN STATIC PRESSURE.
 - B EQUALS DRAIN PAN STATIC PRESSURE.
- BLOW THRU UNITS:
- A EQUALS 1 MINIMUM.
 - B EQUALS 2 TIMES DRAIN PAN STATIC PRESSURE.
- THE CONDENSATE DRAIN SHALL BE COPPER. PLASTIC PIPING OF ANY TYPE IS NOT ACCEPTABLE. THE DRAIN PIPE SIZE "C" SHALL BE BASED ON THE FOLLOWING UNIT REFRIGERATION TONNAGE: 3/4" UP TO 2 TONS, 1" UP TO 5 TONS, 1-1/4" UP TO 30 TONS, 1-1/2" UP TO 50 TONS, 2" UP TO 170 TONS, 3" UP TO 300 TONS, 4" UP TO 400 TONS.
 - THE CONDENSATE DRAIN PIPING 1" IN 10 FT IN THE DIRECTION OF FLOW. WHERE THE ACTUAL SLOPE IS LESS, INCREASE THE ABOVE PIPE SIZE VALUES BY ONE PIPE SIZE. PROVIDE ADJUSTABLE FLOOR PIPE SUPPORTS ALONG THE ENTIRE RUN.
 - PROVIDE ECCENTRIC REDUCER, AS REQUIRED. KEEP THE BOTTOM OF THE CONDENSATE PIPE EVEN WITH THE UNIT DRAIN CONNECTION.
 - INSTALL DRAINAGE ASSEMBLY TO ALLOW CLEAR ACCESS TO THE RTU FOR SERVICING AND PIPING TO THE SUPPORT STRUCTURE. WHERE THE RTU IS MOUNTED ON A ROOF CURB, SUPPORT THE PIPING FROM THE ROOF, INDEPENDENTLY FROM THE RTU.

7 ROOFTOP UNIT COOLING COIL CONDENSATE TRAP
12" = 1'-0"

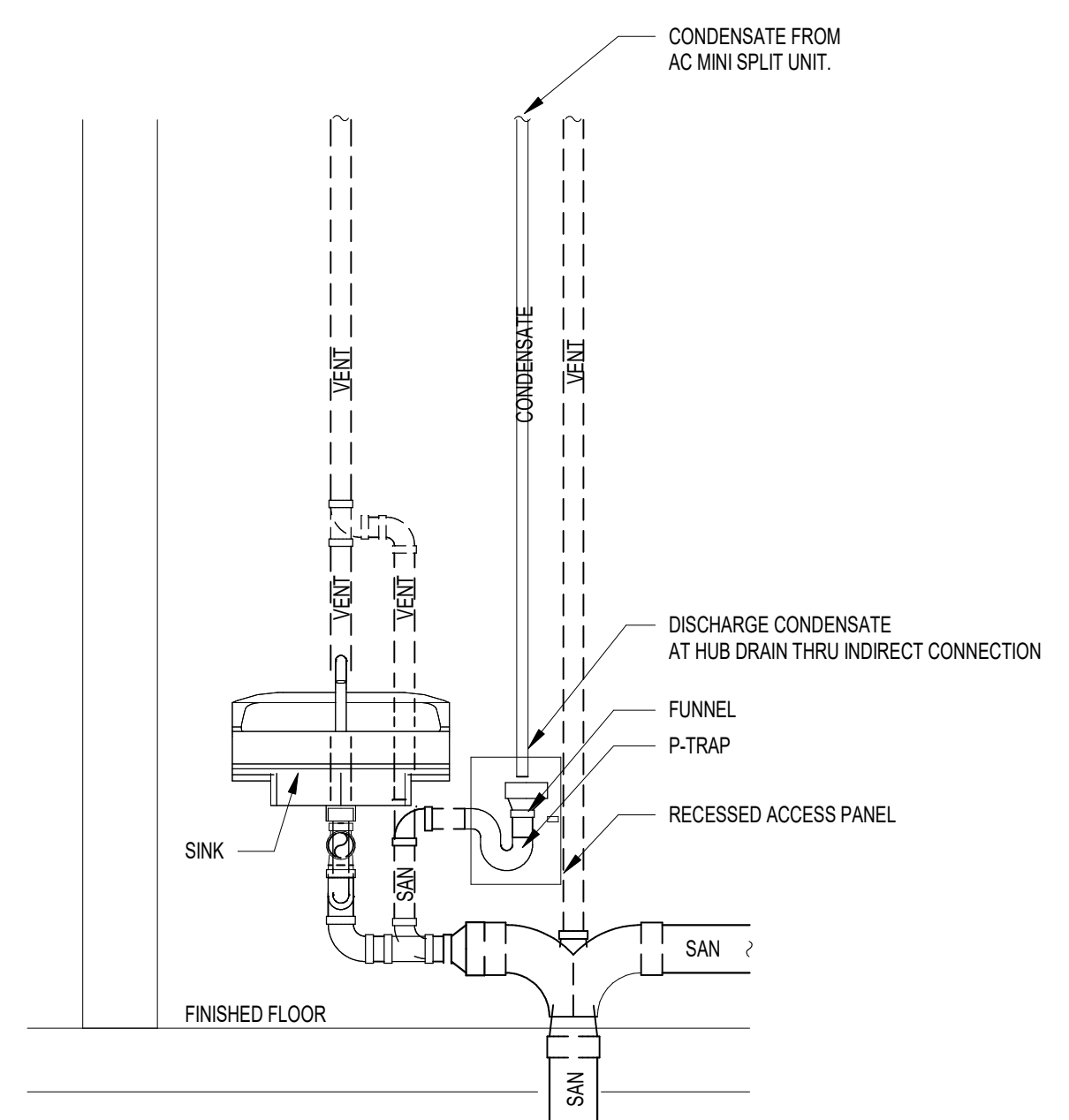


- NOTES:
- INSIDE CLEAR DIMENSIONS OF THE CURB SHALL BE AS FOLLOWS:
* WIDTH: EQUAL TO THE O.D. OF THE LARGEST PIPE, INCLUDING INSULATION, PLUS 4" OF CLEARANCE MINIMUM.
* LENGTH: SHALL BE EQUAL TO THE OVERALL WIDTH OF THE PIPING RACK AND ITS INSULATION, PLUS 4".
 - SHEATHING SHALL BE THE SAME DIMENSIONS AS THE CURB INSIDE CLEAR DIMENSIONS, AS INDICATED ABOVE. PIPE PENETRATIONS IN THE SHEATHING SHALL BE A MAX. OF 1/4" LARGER THAN THE O.D. OF THE PIPE AND ITS INSULATION. PROVIDE A MIN. OF 2" IN BETWEEN THE PIPE PENETRATIONS IN THE SHEATHING.
 - PROVIDE ANY PRESSURE-TREATED BLOCKING NECESSARY UNDER THE CURB, TO RAISE THE CURB TO ACCOMMODATE THE THICKNESS OF THE ROOF INSULATION. SECURE BLOCKING TO THE ROOF STRUCTURE WITH LOAD RATED, RUST PROOF FASTENERS. COORDINATE ALL NECESSARY COMPONENTS WITH THE WORK BY OTHER TRADES.
 - PROVIDE ROOFING MATERIALS AND WATERPROOFING IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS.
 - ROOF OPENING SHALL BE 2" SMALLER THAN THE INSIDE CURB DIMENSION IN BOTH DIRECTIONS. REFER TO STRUCT. DWGS. FOR ADDITIONAL INFORMATION REGARDING ROOF OPENING FRAMING.
 - EXTERIOR PIPE INSULATION AND JACKET SHALL EXTEND INTO THE PIPING ENCLOSURE. SEAL THE BUTT JOINT BETWEEN THE INTERIOR AND EXTERIOR INSULATION, AS REQUIRED, BASED ON PIPE SERVICE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - WHEN THE ENCLOSURE IS TO BE INSTALLED ON A PITCHED ROOF, COORDINATE WITH THE CURB MANUFACTURER TO PROVIDE A PITCHED CURB TO MATCH THE PITCH OF THE ROOF. THE ENCLOSURE SHALL BE INSTALLED LEVEL AND PLUMB.

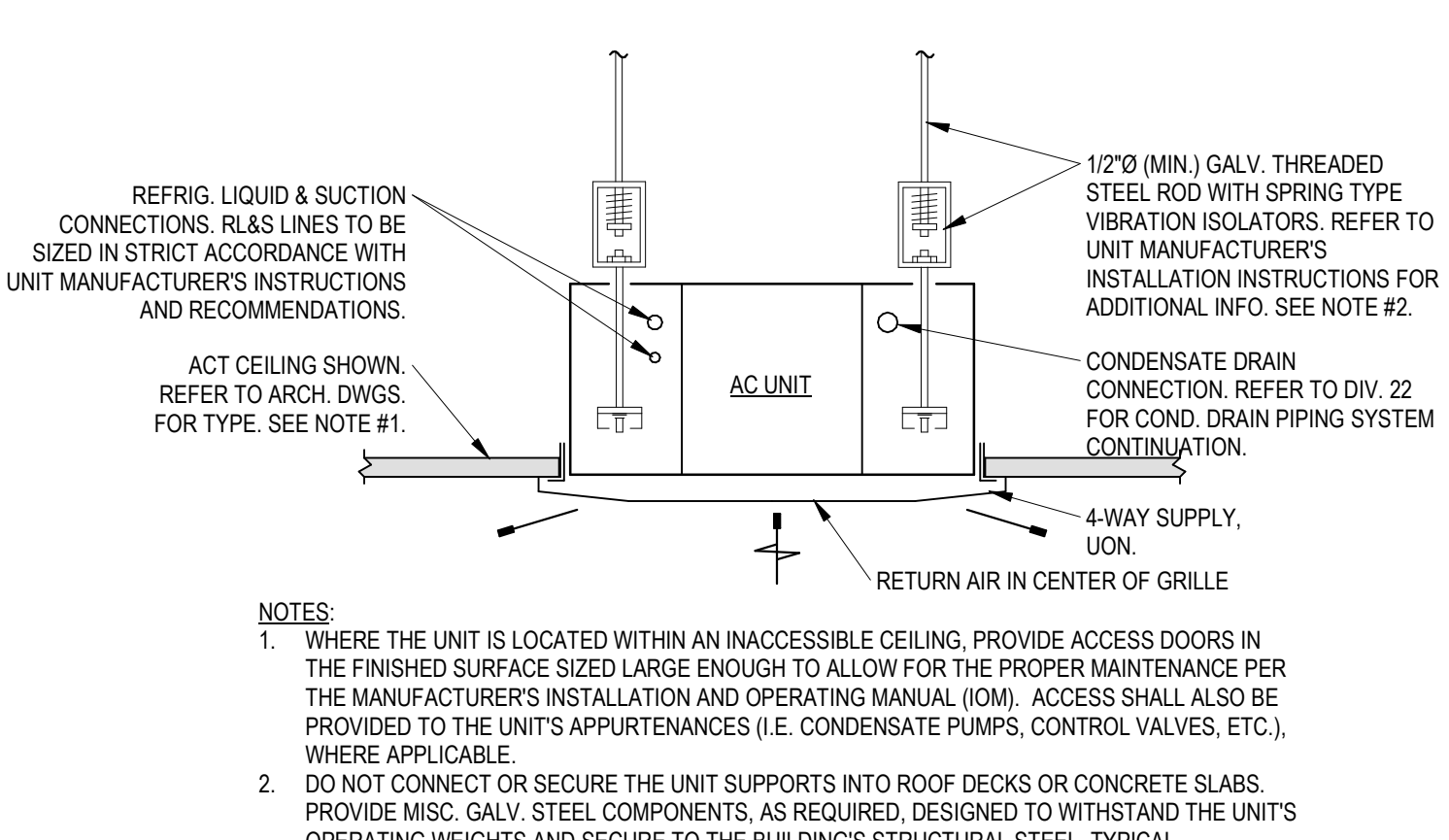
8 ROOFTOP WEATHERPROOF PIPING PENETRATION
1/8" = 1'-0"



9 GAS PIPE CONNECTION DETAIL
12" = 1'-0"

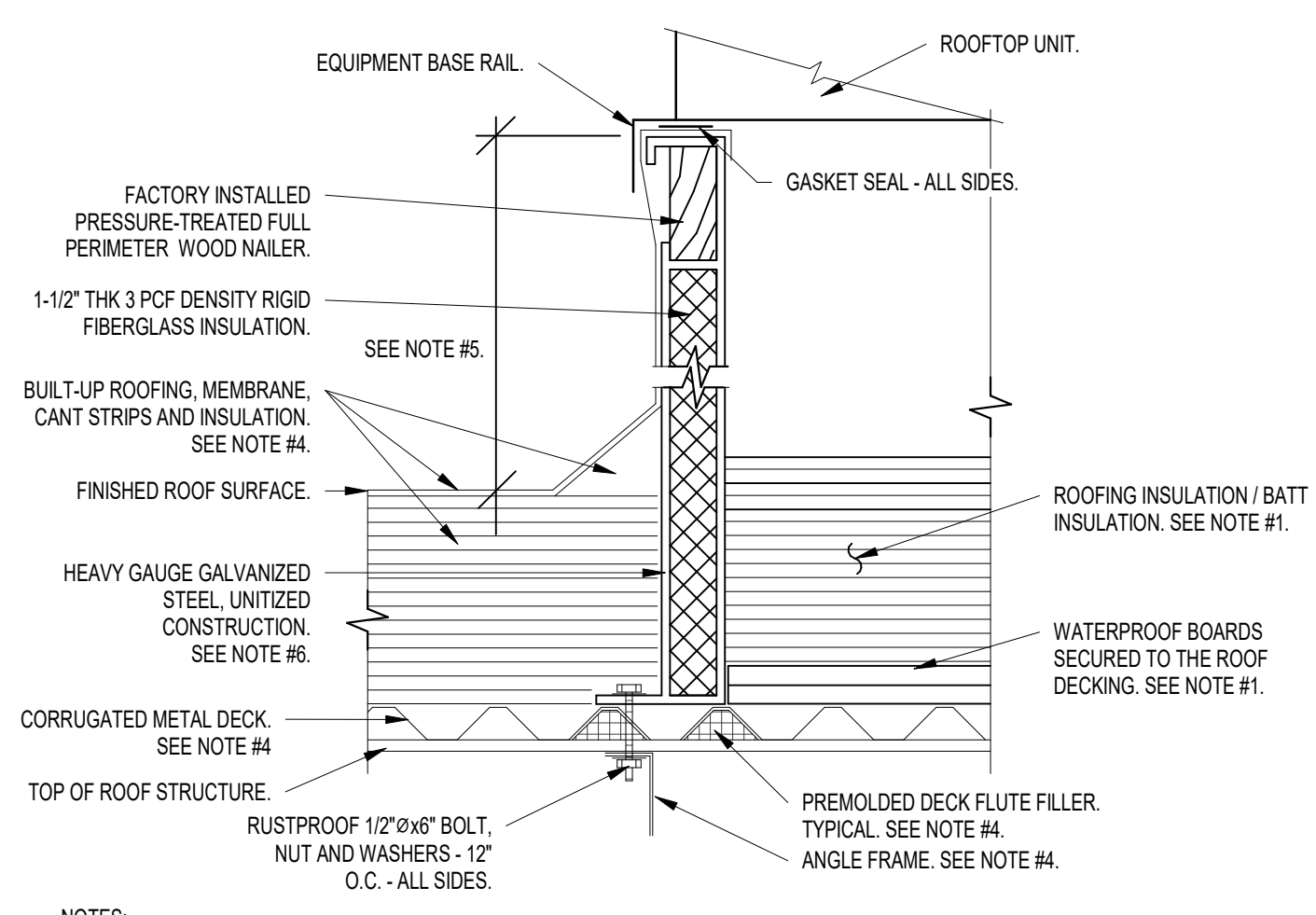


10 CONDENSATE THROUGH INDIRECT CONNECTION DETAIL
3/4" = 1'-0"

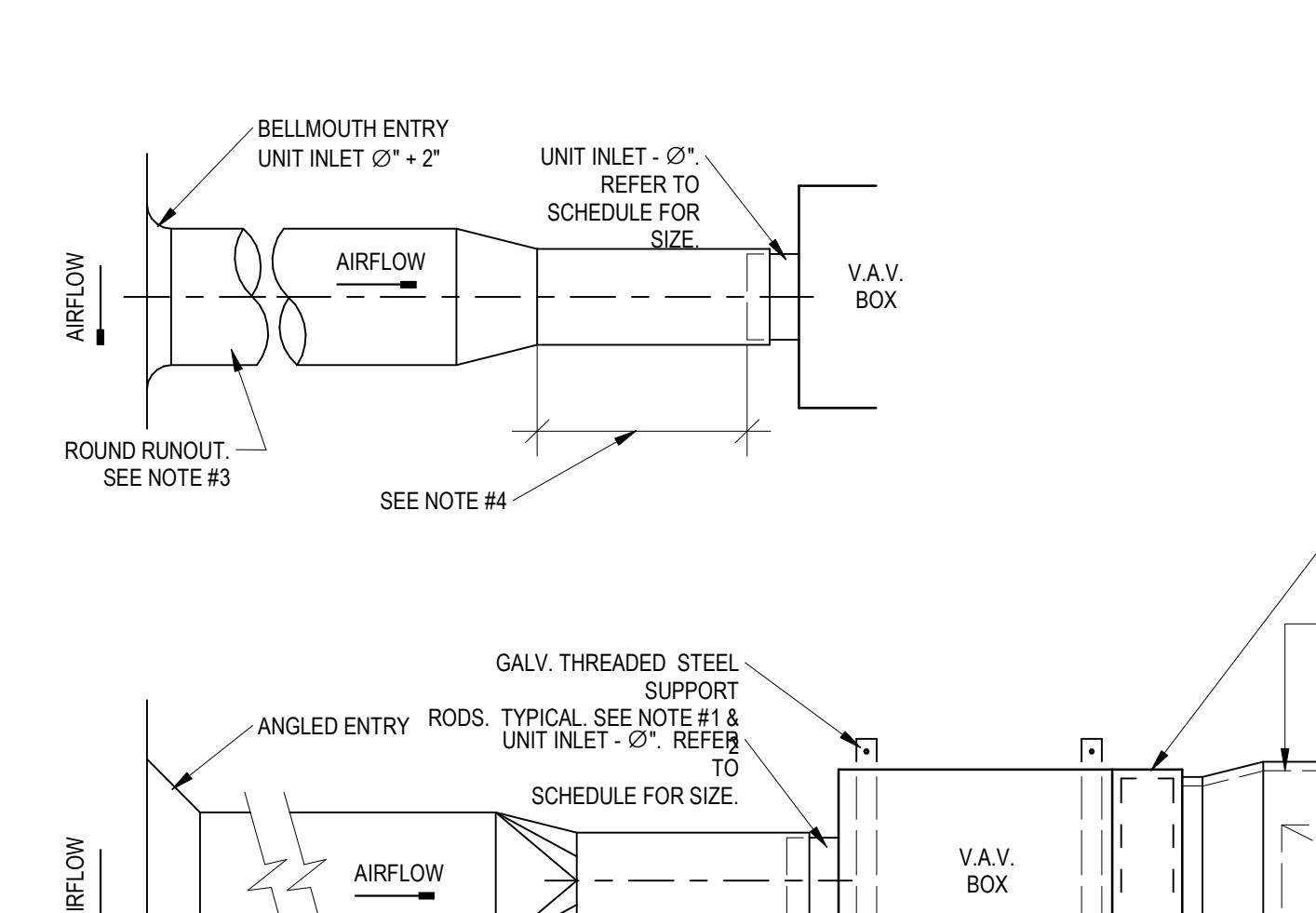


- NOTES:
- WHERE THE UNIT IS LOCATED WITHIN AN INACCESSIBLE CEILING, PROVIDE ACCESS DOORS IN THE FINISHED SURFACE SIZED LARGE ENOUGH TO ALLOW FOR THE PROPER MAINTENANCE PER THE MANUFACTURER'S INSTALLATION AND OPERATING MANUAL (IOM). ACCESS SHALL ALSO BE PROVIDED TO THE UNIT'S APPURTENANCES (I.E. CONDENSATE PUMPS, CONTROL VALVES, ETC.), WHERE APPLICABLE.
 - DO NOT CONNECT OR SECURE THE UNIT SUPPORTS INTO ROOF DECKS OR CONCRETE SLABS. PROVIDE MSG. GALV. STEEL COMPONENTS, AS REQUIRED, DESIGNED TO WITHSTAND THE UNIT'S OPERATING WEIGHTS AND SECURE TO THE BUILDING'S STRUCTURAL STEEL, TYPICAL.

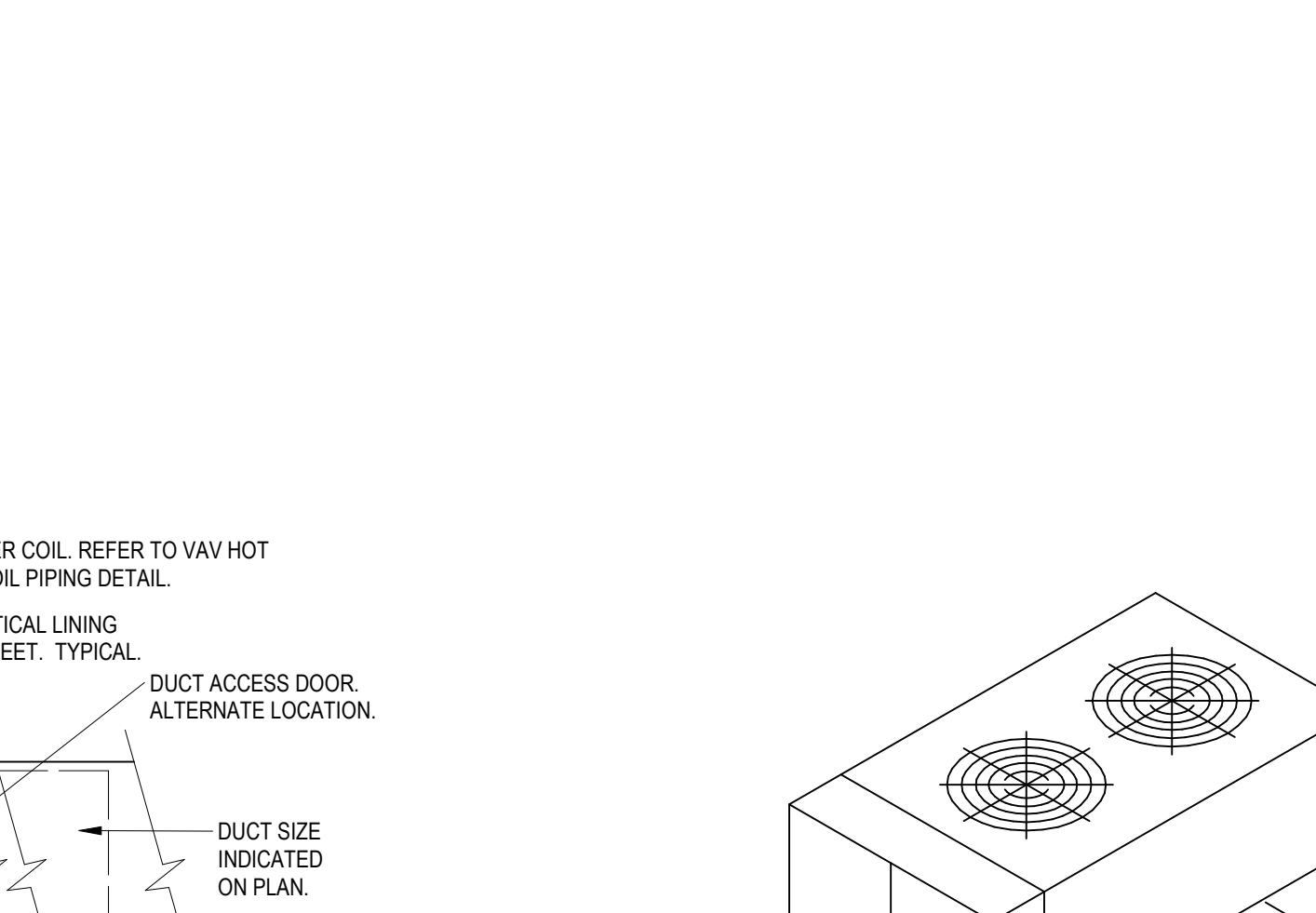
11 SUSPENDED AC UNIT - CEILING MOUNTED
12" = 1'-0"



- NOTES:**
- PROVIDE (2) LAYERS OF 1/2" THICK WATERPROOF BOARD BY THE MECHANICAL CONTRACTOR AND ROOFING INSULATION BY THE ROOFING CONTRACTOR. RUN ALTERNATING LAYERS OF WATERPROOF BOARDS PERPENDICULAR TO THE PREVIOUS LAYER. PROVIDE 100% AREA COVERAGE OF THE ROOF CURB CAVITY. WHERE THE ROOF CURB IS PROVIDED FOR A RETROFIT APPLICATION, THE MECHANICAL CONTRACTOR SHALL PROVIDE A MIN. OF (2) LAYERS OF 1/2" THICK FIBERGLASS BATT INSULATION INSTALLED ABOVE THE WATERPROOF BOARDS AS INDICATED ABOVE. IN LIEU OF THE ROOFING INSULATION.
 - THE ROOFTOP AIR HANDLING UNIT SHALL BE FULLY SUPPORTED AROUND THE UNIT'S PERIMETER. COORDINATE MATCHING CURBS TO SUPPORT ANY UNIT ACCESSORIES (IE. PIPING VESTIBLES, ETC.).
 - THE ROOFTOP AIR HANDLING UNIT SHALL BE MOUNTED PLUMB AND LEVEL ON THE ROOF CURB. THE TOP OF THE CURB SHALL BE LEVEL AND THE SLOPE OF THE ROOF SHALL BE COMPENSATED FOR BY THE CURB. THE USE OF BLOCKING OR SHIMMING UNDER THE ROOF CURB IS NOT ACCEPTABLE. PROVIDE ALL COMPONENTS REQUIRED TO INSTALL THE ROOF CURB IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION, UNLESS OTHERWISE NOTED.
 - REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT ROOF CONSTRUCTION AND ADDITIONAL INFORMATION. CURB HEIGHT SHALL BE A MIN. OF 34" UNLESS OTHERWISE INDICATED, AS MEASURED FROM THE TOP OF ROOF DECK HIGH POINT TO THE TOP OF THE CURB. AND/OR AS REQUIRED FOR NO LESS THAN 8" OF CURB HEIGHT ABOVE THE FINISHED ROOF SURFACE. COORDINATE WITH THE ROOF SYSTEM USED SO THAT A MINIMUM OF 8" OF THE CURB IS ABOVE THE FINISHED ROOF SURFACE FOR FLASHING PURPOSES.
 - ALL CORNERS SHALL BE FULLY MITERED AND WELDED. CURB SHALL BE FURNISHED WITH ATTACHMENT RESTRAINT BRACKETS, ALL WALL CORNER AND CROSS BRACE SPLICES, ALONG WITH ASSEMBLY HARDWARE. COORDINATE CURB FULLY ASSEMBLED OR KNOCKED DOWN.
 - WHEN THE PROJECT IS LOCATED WITHIN 5 MILES OF A SEA COAST, CURBS SHALL BE OF ALUMINUM CONSTRUCTION.
 - PROVIDE RESTRAINT BRACKETS SIMILAR TO BE AES INDUSTRIES MODEL AWS OR EQUAL. RESTRAINT BRACKETS UTILIZED TO SECURE ROOFTOP AIR CONDITIONERS SHALL BE DESIGNED FOR WIND LOADS PER LOCAL STATE BUILDING CODES. STRUCTURAL WIND LOAD CALCULATIONS AND/OR STATE NOTICE OF ACCEPTANCE SHALL BE AVAILABLE FROM THE MANUFACTURER. RESTRAINT BRACKET QUANTITY TO BE DETERMINED BY PROJECT SPECIFIC CALCULATIONS. AT A MINIMUM, PROVIDE 4 BRACKETS PER CURB. ONE BRACKET PER SIDE. RESTRAINT BRACKETS SHALL BE ATTACHED TO ROOF CURB AND THE EQUIPMENT BASE RAIL IN ACCORDANCE WITH THE BRACKET MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.



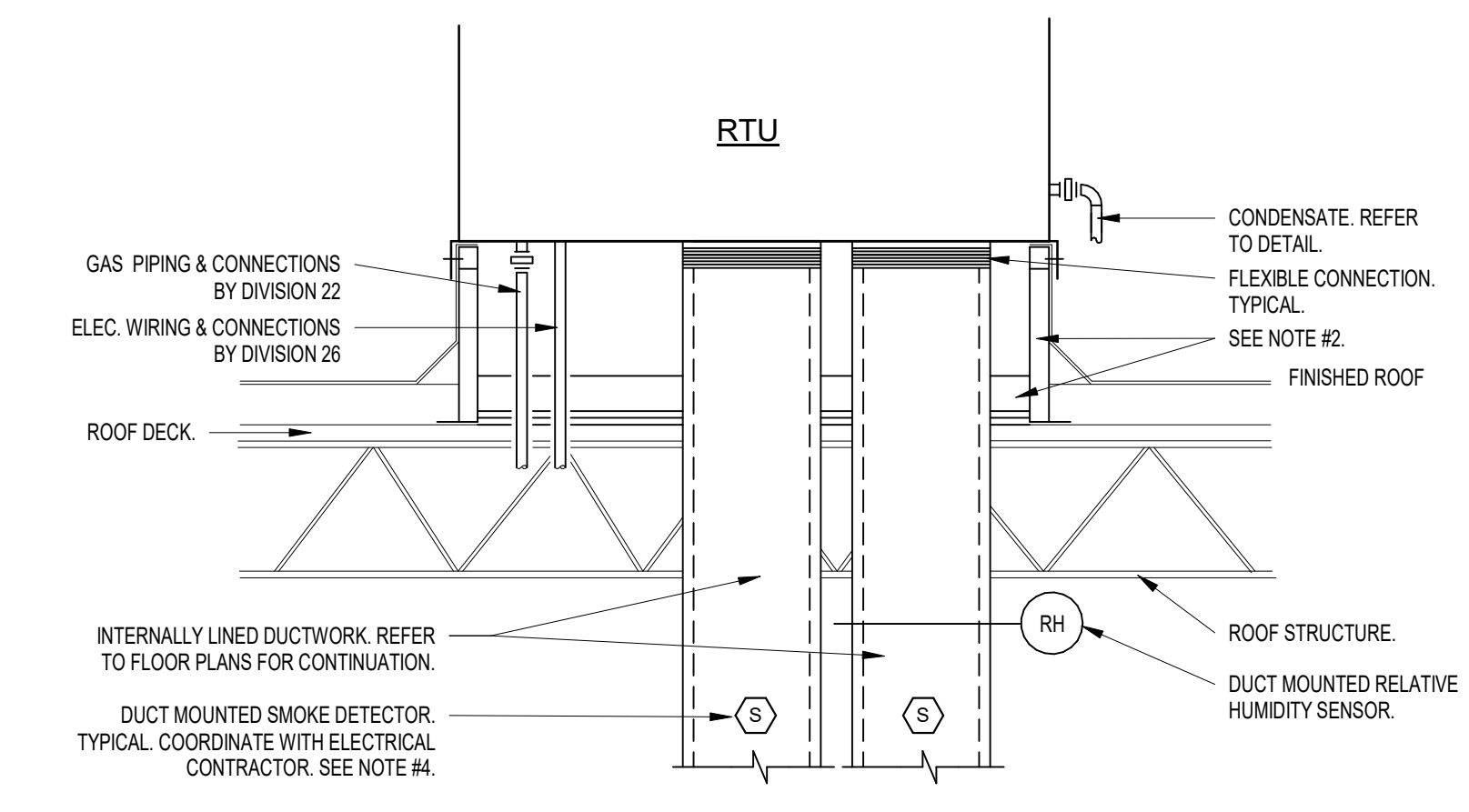
- NOTES:**
- REFER TO "TYPICAL METHOD OF SECURING HANGER RODS DETAIL" FOR ATTACHING HANGERS TO THE STRUCTURE.
 - COORDINATE THE LOCATION OF THE SUPPORT RODS WITH UNIT CONTROLS TO ALLOW FOR FULL ACCESS & MAINTENANCE.
 - DUCT RUNOUT TO THE VAV TERMINAL SHALL BE ROUND OR RECTANGULAR TYPE. THE RECTANGULAR TYPE RUNOUT SIZE SHALL BE THE EQUIVALENT SIZE OF THE ROUND TYPE RUNOUT. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE RUNOUT TYPE AND SIZE, BASED ON THE AVAILABLE SPACE CONDITIONS ALONG THE DUCT ROUTING TO THE VAV TERMINAL.
 - THE INLET DUCT LENGTH SHALL BE 3 TIMES THE INLET DIAMETER, MINIMUM OF 36".



- NOTES:**
- REFER TO THE MECHANICAL EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MOUNTING REQUIREMENTS TO DETERMINE THE FINAL LOCATION OF THE EQUIPMENT SUPPORT RAILS AND THEIR LENGTH. COORDINATE THE FINAL RAIL LENGTH IN STRICT ACCORDANCE WITH MOUNTING REQUIREMENTS OF THE EQUIPMENT, PLUS A MINIMUM OF 12" OVERALL.
 - WHERE ROOF CONSTRUCTION CONSISTS OF METAL DECKING ON STEEL OPEN WEB TYPE JOISTS, COORDINATE THE RAILS TO RUN PERPENDICULAR TO THE JOISTS AND REST ON A MINIMUM OF TWO (2) JOISTS. PROVIDE MISC. STEEL BELOW THE RAILS BELOW THE ROOF TO FULLY SUPPORT THE RAIL. COORDINATE WITH THE WORK BY THE STRUCTURAL STEEL CONTRACTOR.



- NOTES:**
- REFER TO THE MECHANICAL EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE MOUNTING REQUIREMENTS TO DETERMINE THE FINAL LOCATION OF THE EQUIPMENT SUPPORT RAILS AND THEIR LENGTH. COORDINATE THE FINAL RAIL LENGTH IN STRICT ACCORDANCE WITH MOUNTING REQUIREMENTS OF THE EQUIPMENT, PLUS A MINIMUM OF 12" OVERALL.
 - WHERE ROOF CONSTRUCTION CONSISTS OF METAL DECKING ON STEEL OPEN WEB TYPE JOISTS, COORDINATE THE RAILS TO RUN PERPENDICULAR TO THE JOISTS AND REST ON A MINIMUM OF TWO (2) JOISTS. PROVIDE MISC. STEEL BELOW THE RAILS BELOW THE ROOF TO FULLY SUPPORT THE RAIL. COORDINATE WITH THE WORK BY THE STRUCTURAL STEEL CONTRACTOR.



- NOTES:**
- COORDINATE WITH ARCH. & STRUCT. DWGS FOR EXACT ROOF CONSTRUCTION AND ADDITIONAL INFORMATION.
 - REFER TO ROOFTOP UNIT CURB DETAIL FOR ADDITIONAL INFORMATION.
 - PROVIDE DUCT SMOKE DETECTORS FOR UNITS THAT ARE 2,000 CFM OR GREATER. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

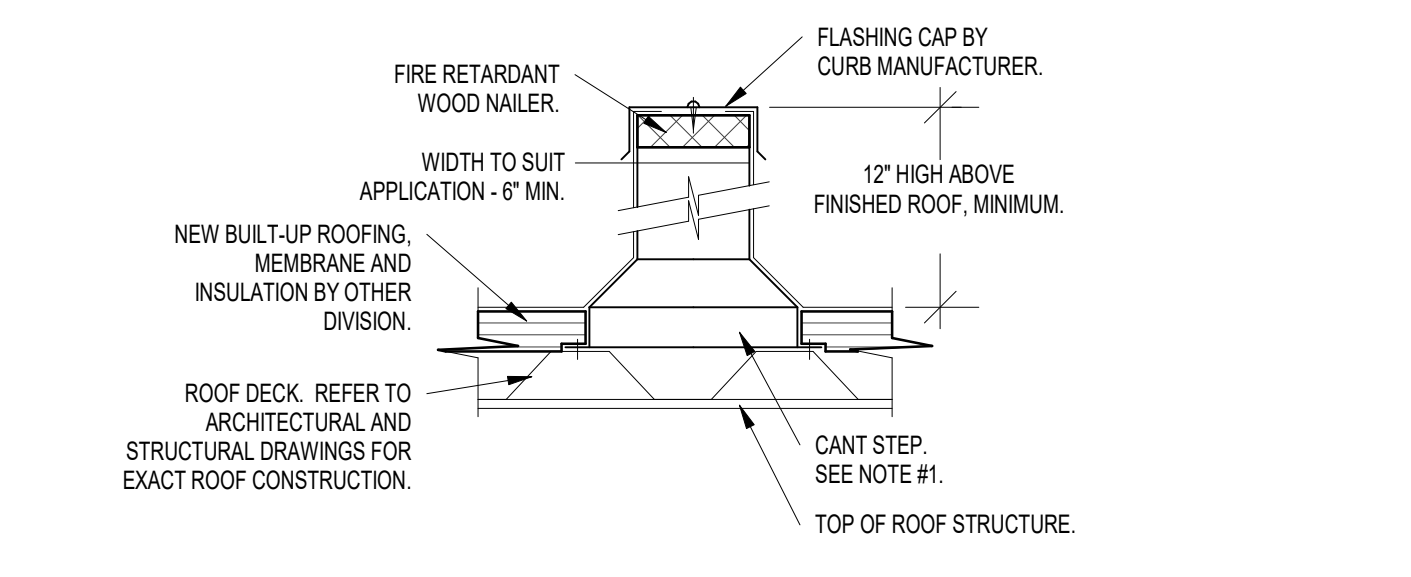
1 ROOFTOP UNIT INSTALLATION
12" = 1'-0"

2 ROOFTOP AHU CURB
12" = 1'-0"

3 VAV TERMINAL BOX INSTALLATION
12" = 1'-0"

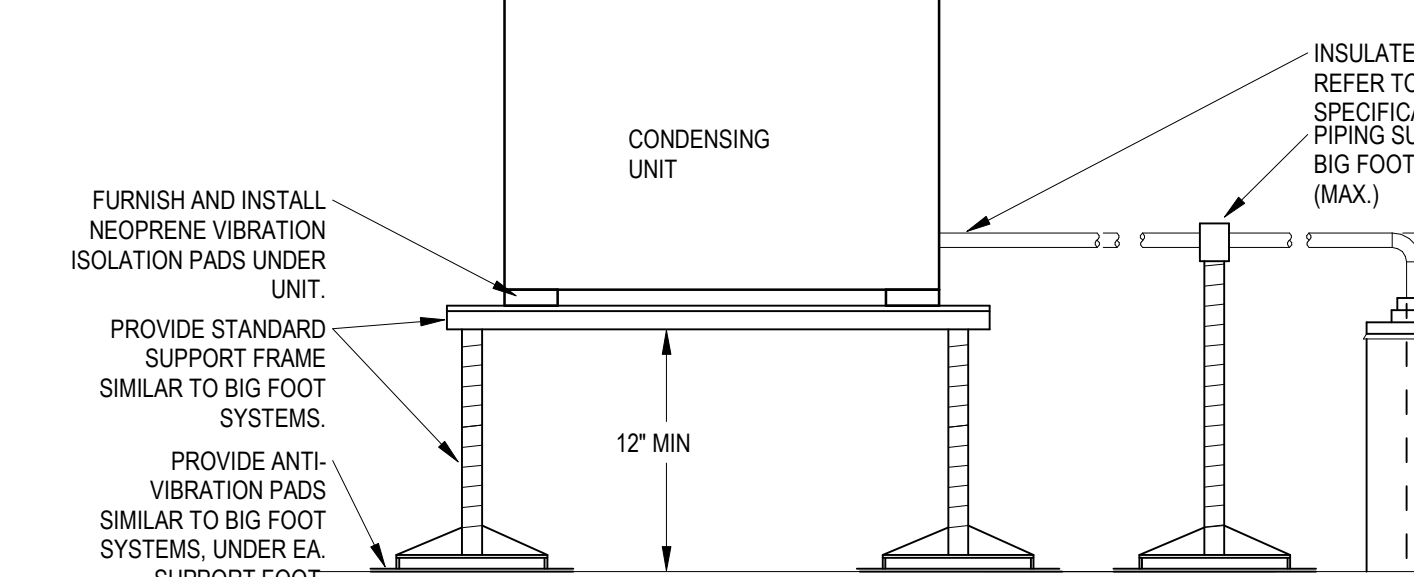
4 ROOFTOP EQUIPMENT SUPPORT
12" = 1'-0"

5 ROOFTOP UNIT GAS PIPING CONNECTION WITH PRV
12" = 1'-0"



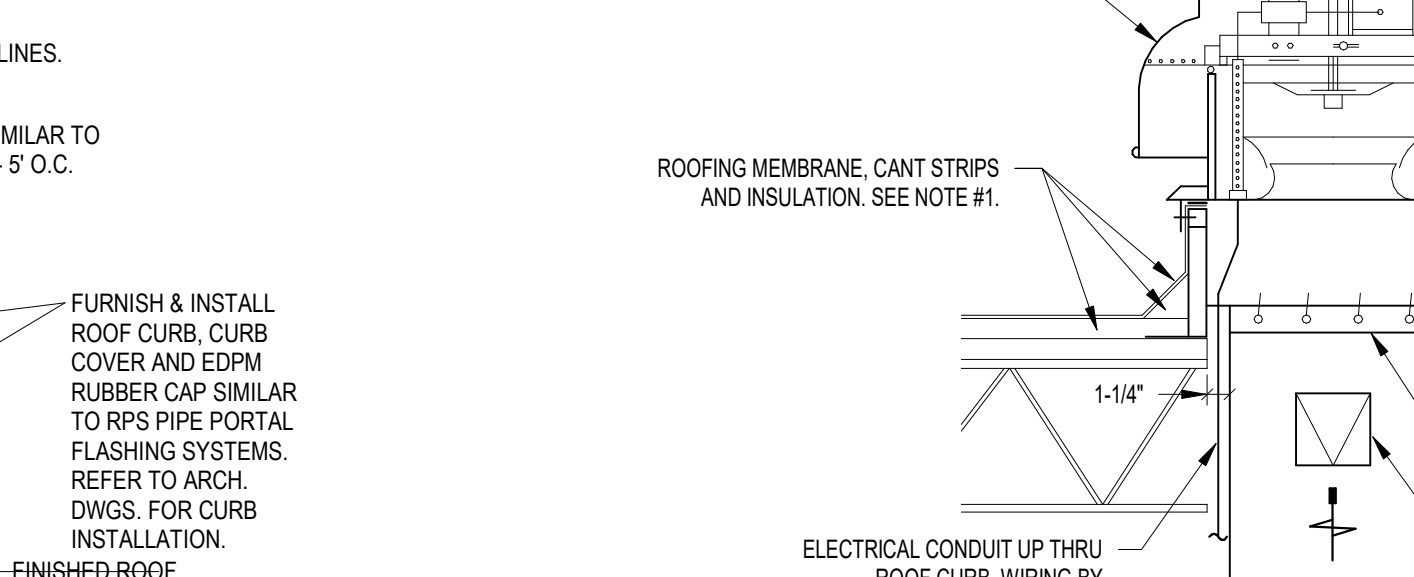
- NOTES:**
- THE RAISED CANT STEP HEIGHT SHALL BE COORDINATED WITH THICKNESS OF ROOF INSULATION ON ARCHITECTURAL DRAWINGS AND WITH THE ROOFING CONTRACTOR. SECURE RAIL TO THE ROOF DECK WITH LOAD RATED, RUSTPROOF FASTENERS.
 - THE EQUIPMENT RAIL SHALL BE DESIGNED AND FABRICATED TO THOROUGHLY SUPPORT ITS RESPECTIVE PIECE OF EQUIPMENT. AS A MINIMUM, EQUIPMENT RAILS SHALL BE FABRICATED OF 18 GAUGE GALVANIZED STEEL WITH BUILT-IN CANT, MONOLITHIC CONSTRUCTION WITH INTEGRAL BASE PLATE AND CONTINUOUS MITERED AND WELDED CORNER SEAMS, WITH FACTORY INSTALLED FIRE RETARDANT WOOD NAILER. EACH EQUIPMENT RAIL SHALL INCLUDE A MATCHING 18 GAUGE GALVANIZED STEEL COUNTER FLASHING CAP WITH INTEGRAL DRIP EDGE, ALL CORNERS MITERED AND WELDED, AND SCREWS FOR ATTACHMENT. EQUIPMENT CURBS OVER 3 FEET LONG SHALL INCORPORATE 14 GAUGE INTERNAL GUSSET REINFORCING. SECURELY FASTEN TO ROOF DECK AND INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHEN THE UNIT IS TO BE INSTALLED ON A PITCHED ROOF, COORDINATE WITH THE RAIL MANUFACTURER TO PROVIDE A PITCHED RAIL TO MATCH THE PITCH OF THE ROOF. THE EQUIPMENT PIPING/DUCTWORK SHALL BE INSTALLED LEVEL AND PLUMB.

6 ROOFTOP EQUIPMENT PREFAB SUPPORT RAILS
12" = 1'-0"



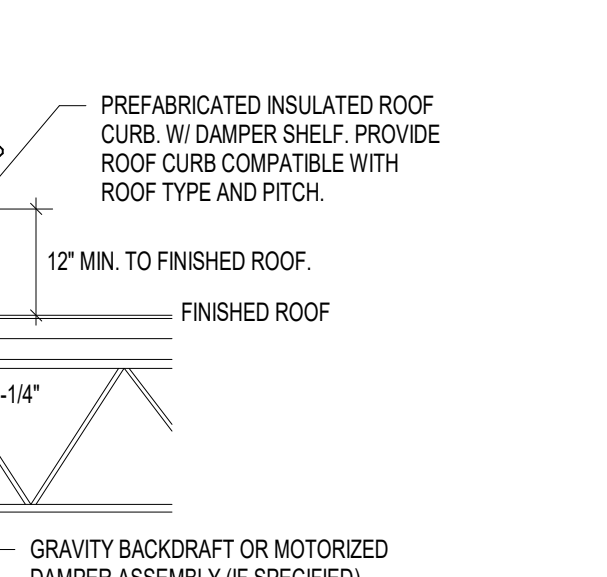
- NOTES:**
- CONTRACTOR SHALL PROVIDE MANUFACTURER DESIGNED EQUIPMENT SUPPORT SYSTEM FOR SUBMITTAL REVIEW.
 - FURNISH & INSTALL REFRIGERANT PIPING FROM CONDENSING UNIT TO INDOOR FAN COILS. NOTE THAT CONTRACTOR SHALL PRESSURE TEST THE REFRIGERANT PIPING WITH NITROGEN AT A PRESSURE & TIME RECOMMENDED BY MANUFACTURER & INDUSTRY PRACTICE TO ASSURE ALL PIPING IS FREE OF LEAKS.

7 CONDENSING UNIT ARRANGEMENT - ROOF
12" = 1'-0"



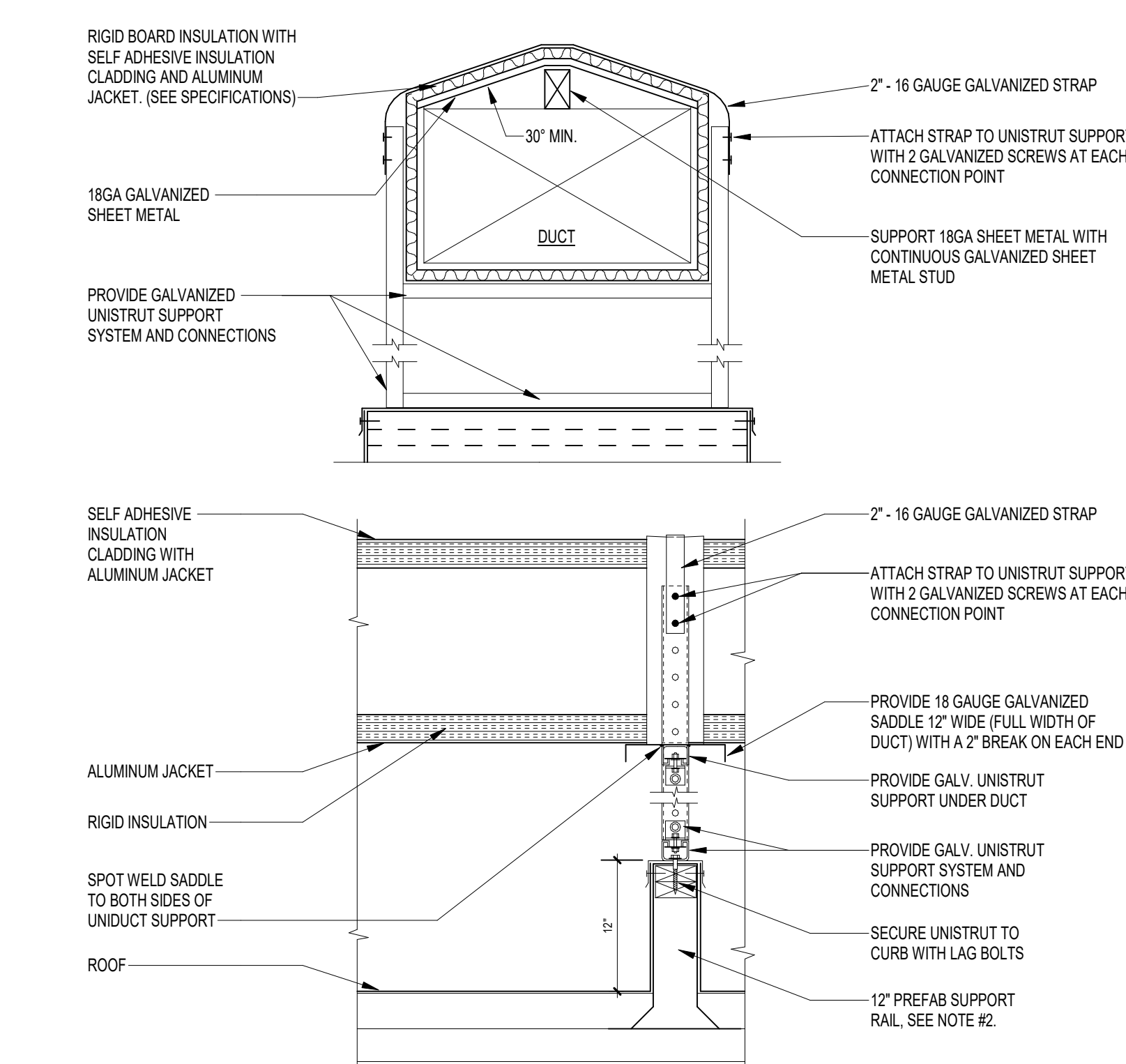
- NOTES:**
- DETAIL TYPICAL FOR ALL SUPPLY & RETURN DUCTWORK EXPOSED ON ROOF.
 - FOR ADDITIONAL DUCT SUPPORT INFORMATION, REFER TO ROOFTOP EQUIPMENT PREFAB SUPPORT RAIL DETAIL.

8 ROOF DUCTWORK INSULATION AND SUPPORT DETAIL
12" = 1'-0"



- NOTES:**
- COORDINATE WITH ARCH. & STRUCT. DWGS FOR EXACT ROOF CONSTRUCTION AND ADDITIONAL INFORMATION.
 - THE FAN SHALL BE MOUNTED PLUMB AND LEVEL ON THE ROOF CURB. THE USE OF BLOCKING OR SHIMMING UNDER THE ROOF CURB IS NOT ACCEPTABLE. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE CURB MANUFACTURER TO COMPENSATE FOR ANY PITCHING ROOF STEEL.
 - PROVIDE ALL COMPONENTS REQUIRED TO INSTALL THE ROOF CURB IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION, UNLESS OTHERWISE NOTED.
 - PROVIDE NON-FUSED, FACTORY MOUNTED AND WIRED DISCONNECT.
 - SECURE FAN TO CURB WITH #10 TEK SCREWS @ 12" O.C. (MIN. 2 PER SIDE).

9 ROOF DUCTWORK INSULATION AND SUPPORT DETAIL
12" = 1'-0"



- NOTES:**
- DETAIL TYPICAL FOR ALL SUPPLY & RETURN DUCTWORK EXPOSED ON ROOF.
 - FOR ADDITIONAL DUCT SUPPORT INFORMATION, REFER TO ROOFTOP EQUIPMENT PREFAB SUPPORT RAIL DETAIL.

9 ROOF DUCTWORK INSULATION AND SUPPORT DETAIL
12" = 1'-0"

VRF INDOOR AIR-HANDLING UNITS

Table with columns: MARK, ASSOCIATED UNIT, MANUFACTURER, MODEL, AREA SERVED, ARRANGEMENT, REFRIG. TYPE, NOMINAL TONS, SUPPLY (CFM), DX COOLING DATA (DESIGN OUTDOOR TEMP. (DB F), CAPACITY (BTUH)), DX HEATING DATA (DESIGN OUTDOOR TEMP. (DB F), CAPACITY (BTUH)), ELEC DATA (VOLTS, PHASE, MCA, MOP), WEIGHT (LBS), REMARKS. Rows include FOU-1-1 through FOU-8-7.

- REMARKS: 1. THE TOTAL RUNS OF REFRIGERANT PIPING ARE BASED ON THE SPECIFIED EQUIPMENT AS MANUFACTURED BY LG. CONTRACTOR SHALL VERIFY WITH MANUFACTURER FOR ACCEPTABLE TOTAL RUN LENGTH. INSTALLATION OF EQUIPMENT & REFRIGERANT PIPING WILL BE BASED ON MANUFACTURER'S APPLICATION DATA AND SHALL NOT COMPROMISE WARRANTY PERIOD. PROVIDE REFRIGERANT SIDE ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER. 2. PROVIDE AN INTELLIGENT COMMUNICATIONS AND MONITORING CONTROL SYSTEM INDEPENDENT OF THE MAIN BUILDING BMS THAT INCORPORATES A CAPABLE COMMUNICABLE CONTROLLER WITH AUTO CHANGEOVER, LEAD/LAG FUNCTION, UNIT TO UNIT COMMUNICATION, AND A WALL MOUNTED GRAPHICAL DISPLAY CONTROL PANEL. 3. PROVIDE WITH REQUIRED CLEARANCES FOR MAINTENANCE ACCESS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. 4. PROVIDE HW INTERFACE TO THE BMS FOR FULL MONITORING & CONTROL COORDINATE COIL SIDE CONNECTION WITH DRAWINGS, ENSURE THAT COIL CONNECTION AND FILTER RACK ACCESS ARE ON SIDE OF UNIT THAT IS SERVICEABLE PER MANUFACTURER'S REQUIRE CLEARANCES. 5. PROVIDE CONDENSATE PUMPS FOR ALL INDOOR UNITS. CONDENSATE PUMP SHALL BE INTER-LOCKED TO UNIT. IF CONDENSATE PUMP FAILS UNIT SHALL SHUT-DOWN. 6. PROVIDE 2 EXTRA FILTERS AND PROVIDE FLEXIBLE DUCT CONNECTOR AT SUPPLY AND RETURN CONNECTIONS OF EACH DUCTED STYLE UNIT. 7. CORRECTED CAPACITIES SHALL BE BASED ON "FULL DEMAND". 8. SEE SCHEMATIC PIPING CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES. 9. PROVIDE ALL WIRING, LINE & LOW VOLTAGE, BETWEEN UNITS AS REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 10. SELECTIONS SCHEDULED ARE BASIS OF DESIGN. APPROVED EQUAL PRODUCTS BY DAKIN OR SAMUNG, PROVIDED THEY MEET OR EXCEED THE BASIS OF DESIGN PERFORMANCE AND SPECIFICATIONS. 11.

VRF OUTDOOR CONDENSING UNITS

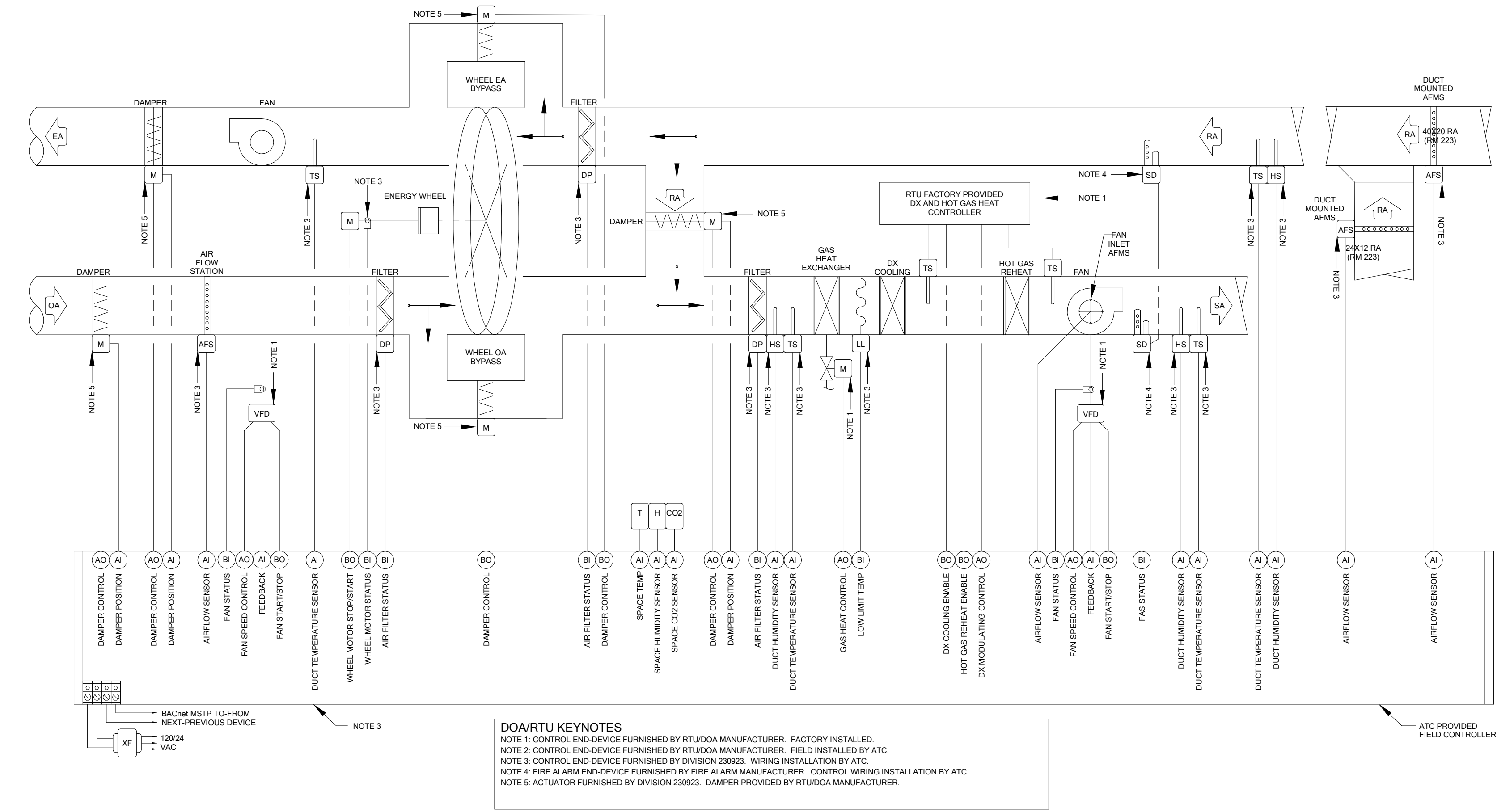
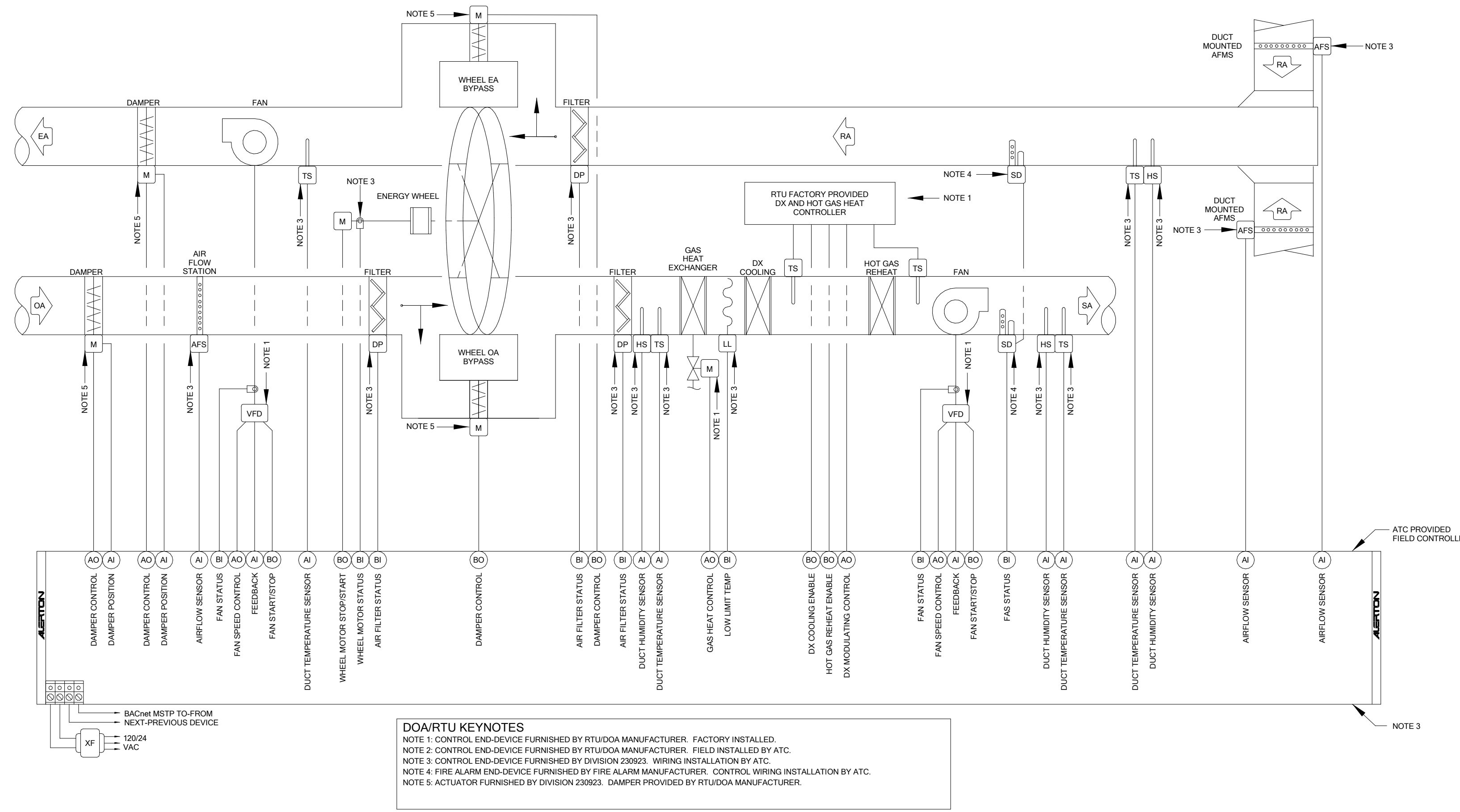
Table with columns: MARK, MANUFACTURER, MODEL, REFRIGERANT TYPE, # OF MODULES, SYSTEM EFFICIENCY (IEER / SEER), DX COOLING DATA (DESIGN OUTDOOR TEMP. (F), COOLING CAPACITY (BTUH)), DX HEATING DATA (DESIGN OUTDOOR TEMP. (F), CAPACITY (BTUH)), ELEC DATA (VOLTS, PHASE, MCA (A), MOP), WEIGHT (LBS), REMARKS. Rows include VRF-1 through VRF-8.

- REMARKS: 1. EACH MODULE IS WIRED INDEPENDENTLY. ELECTRICAL DATA IS TYPICAL FOR EACH MODULE. 2. NOMINAL COOLING & HEATING CAPACITIES ARE FOR EACH MODULE. 3. TWINNING: JOINT & LOW AMBIENT KITS SHALL BE FACTORY PROVIDED. ALL FACTORY PROVIDED COMPONENTS SHALL BE FIELD INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. 4. INSTALL UNIT WITH REQUIRED CLEARANCES FOR MAINTENANCE ACCESS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. 5. PROVIDE ADDITIONAL FIELD REFRIGERANT CHARGE TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT. 6. PROVIDE WITH HALL GUARDS. 7. PROVIDE HW INTERFACE TO THE BMS FOR FULL MONITORING & CONTROL. 8. SELECTIONS SCHEDULED ARE BASIS OF DESIGN. APPROVED EQUAL PRODUCTS BY DAKIN OR SAMUNG, PROVIDED THEY MEET OR EXCEED THE BASIS OF DESIGN PERFORMANCE AND SPECIFICATIONS.

VRF BC CONTROLLERS

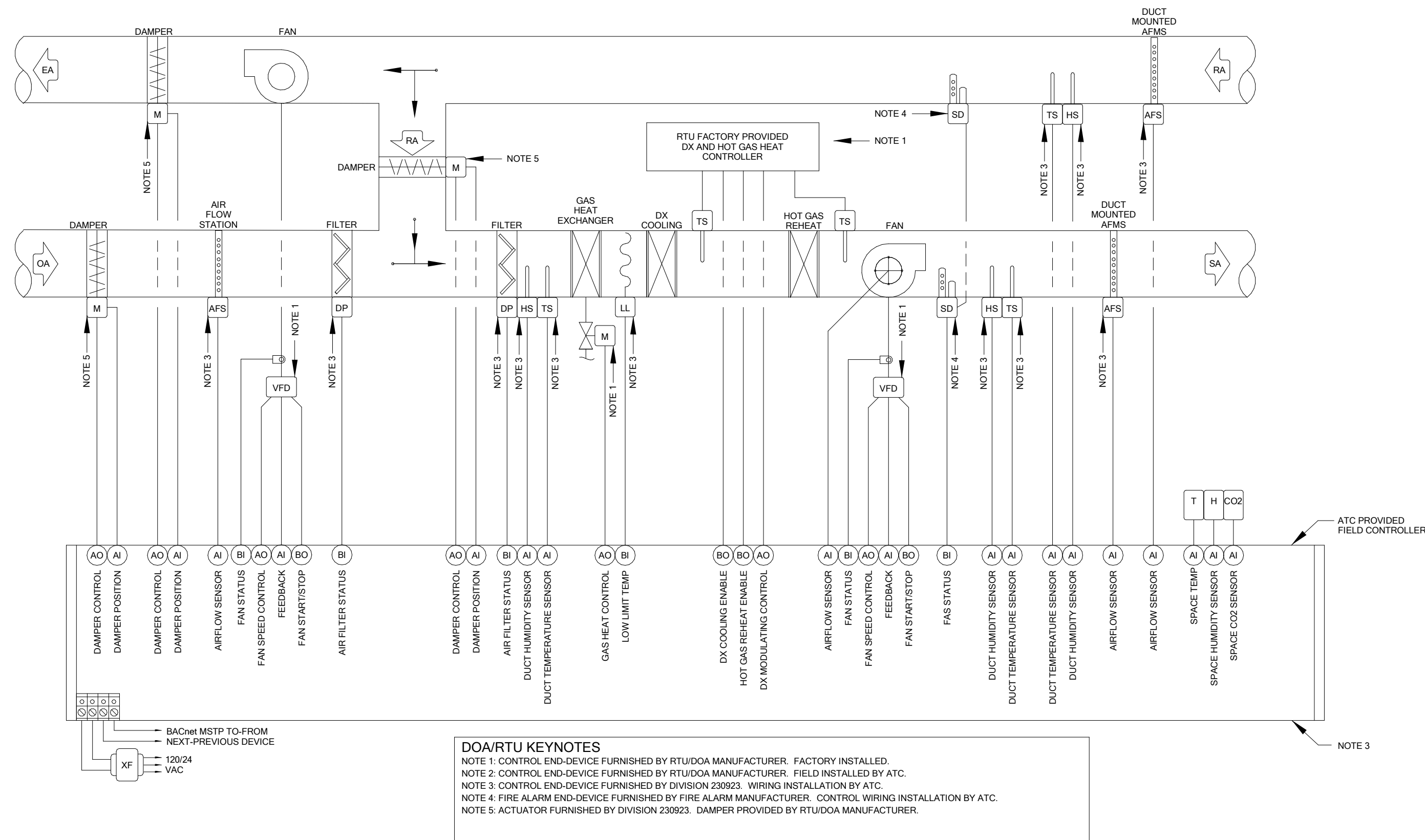
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- REMARKS: 1. PROVIDE BRANCH JOINT SETS, JOINT KITS & REDUCER SETS AS REQUIRED, IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. 2. PROVIDE INTERNAL CONDENSATE PUMP, RUN CONDENSATE DISCHARGE TO NEAREST INDIRECT WASTE. 3. INSTALL UNIT WITH REQUIRED CLEARANCES FOR MAINTENANCE ACCESS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. 4. PROVIDE BALL VALVES, FULL PORT, RATED FOR 70PSIG WORKING PRESSURE, AND R410A VALVES SHALL BE SIMILAR TO DIAMONDBACK BALL VALVES "B" SERIES". 5. SELECTIONS SCHEDULED ARE BASIS OF DESIGN. APPROVED EQUAL PRODUCTS BY DAKIN OR SAMUNG, PROVIDED THEY MEET OR EXCEED THE BASIS OF DESIGN PERFORMANCE AND SPECIFICATIONS.

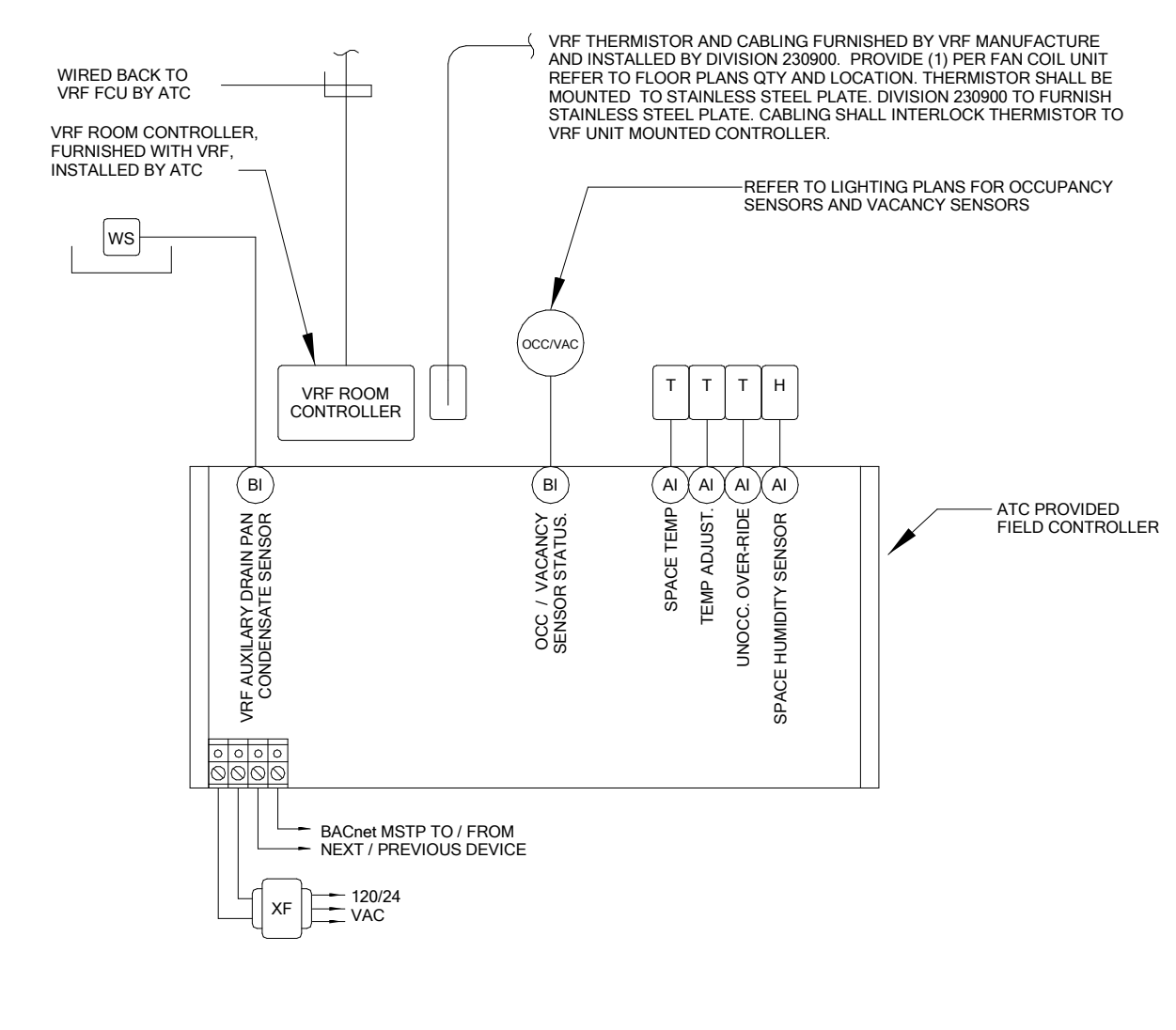


1 DEDICATED OUTDOOR AIR SYSTEM DOAS-1 & DOAS-2 CONTROLS
NOT TO SCALE

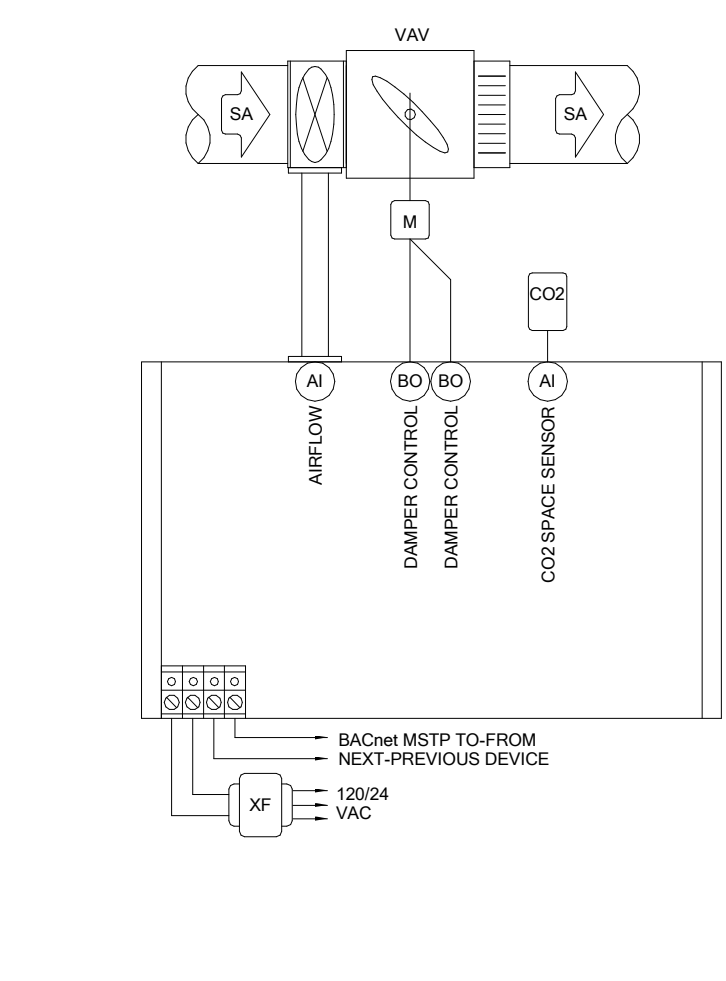
2 ROOFTOP UNIT RTU-1 CONTROLS
NOT TO SCALE



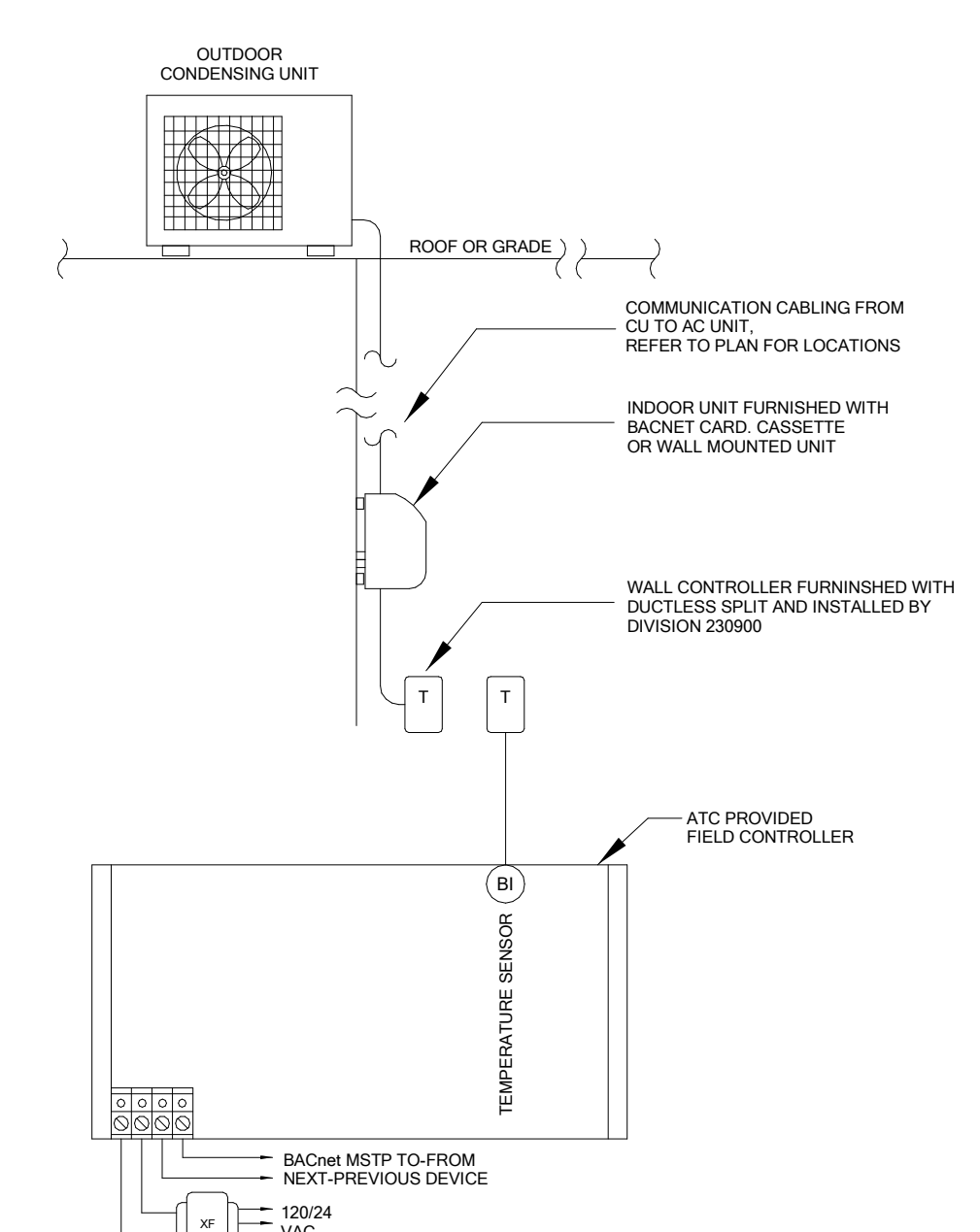
3 ROOFTOP UNIT RTU-2 CONTROLS
NOT TO SCALE



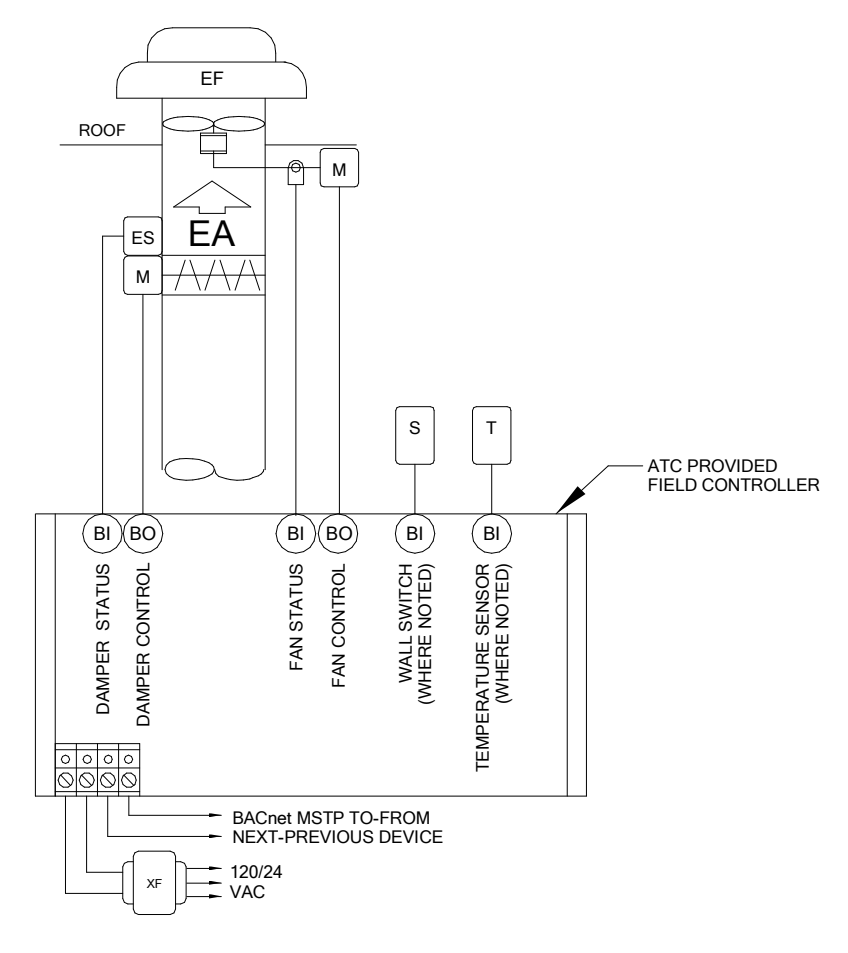
4 VARIABLE REFRIGERANT FLOW UNITS CONTROLS
NOT TO SCALE



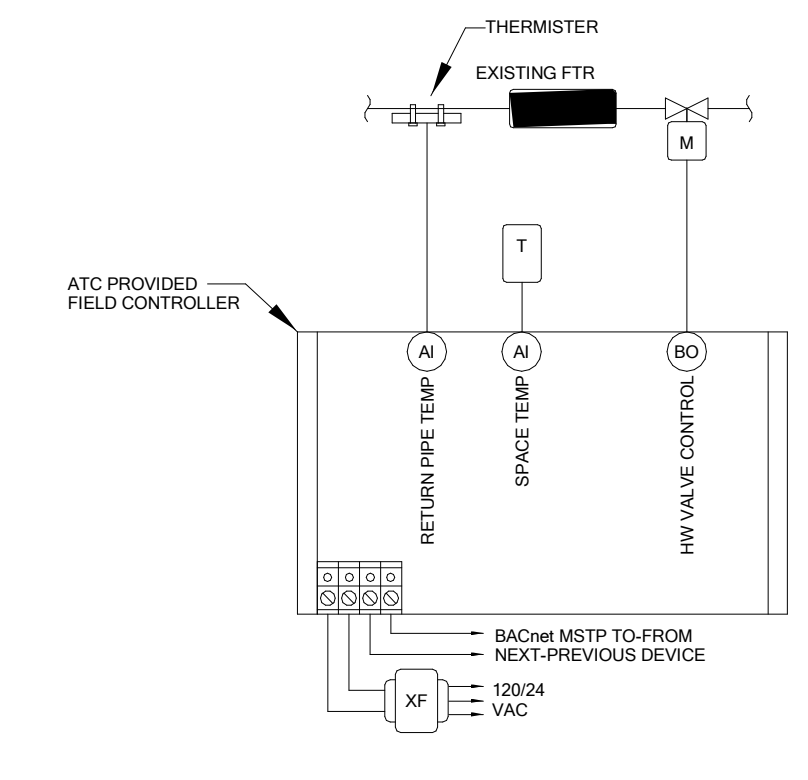
5 VAV BOX CONTROLS
NOT TO SCALE



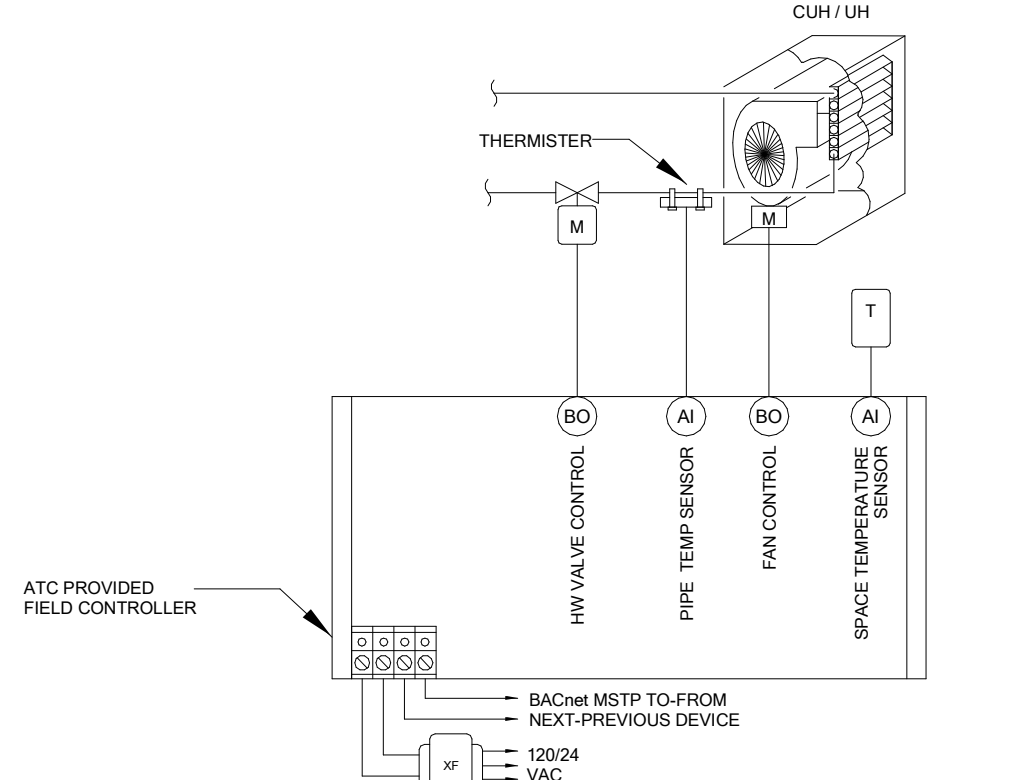
6 DUCTLESS SPLIT SYSTEM CONTROLS
NOT TO SCALE



7 EXISTING EXHAUST FAN CONTROLS
NOT TO SCALE



8 FINNED TUBE RADIATION CONTROL SYSTEM
NOT TO SCALE



9 EXISTING UNIT HEATER CONTROLS
NOT TO SCALE

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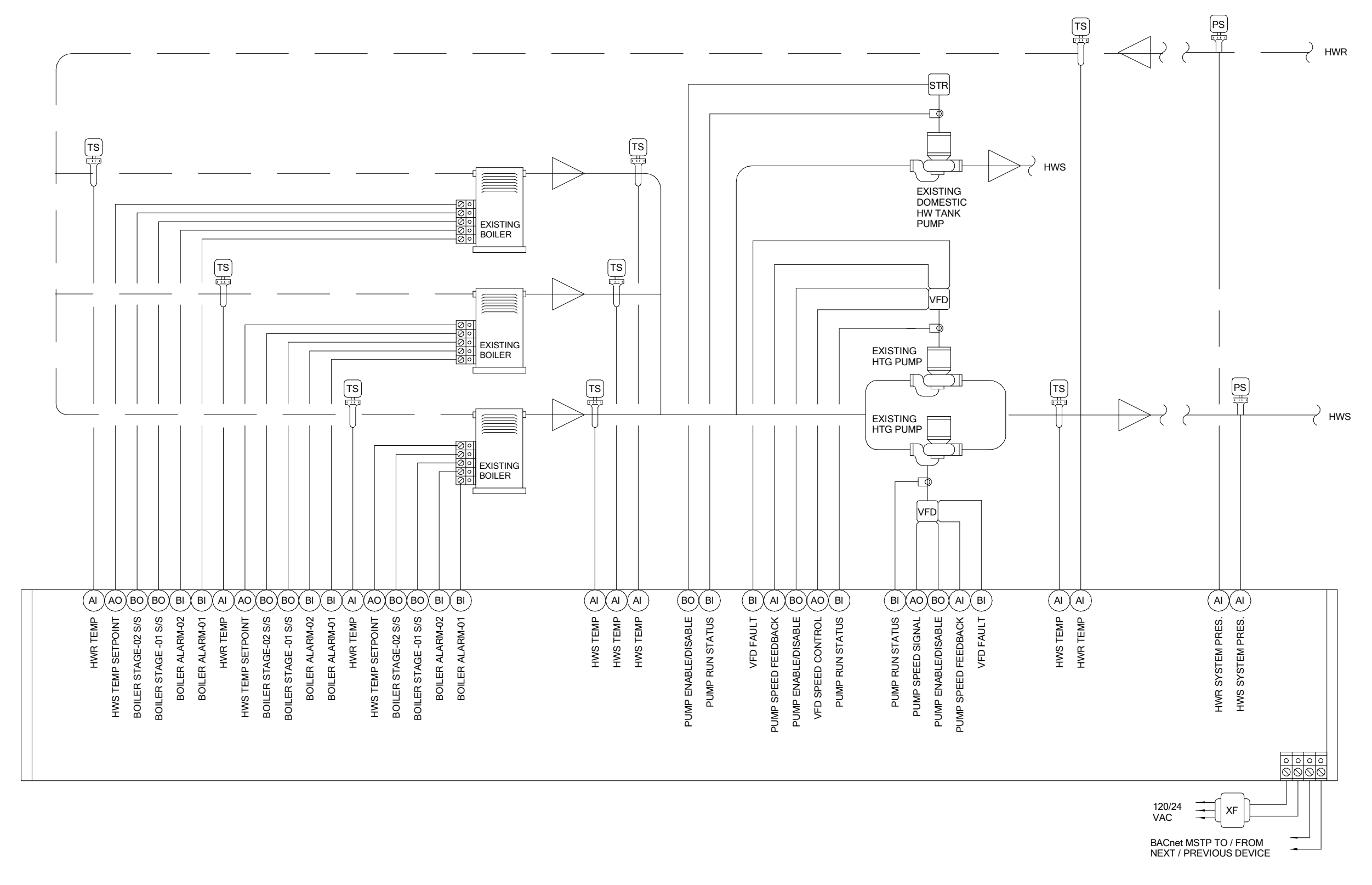
NO	DATE	REVISIONS	DESCRIPTION

Designed: R5/EX
Drawn: R5/EX
Reviewed: JF
Project No.: 2303053
Date: 09/29/2023
Issued for:
95% CONSTRUCTION
DOCUMENTS

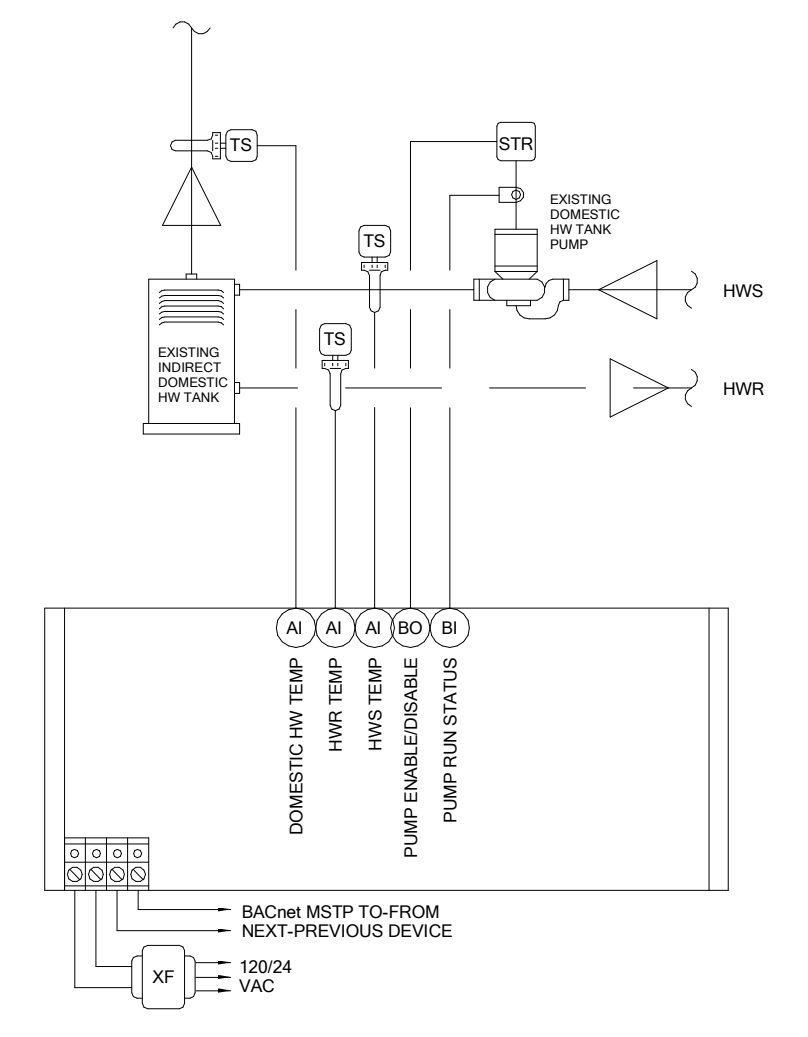
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MECHANICAL CONTROLS

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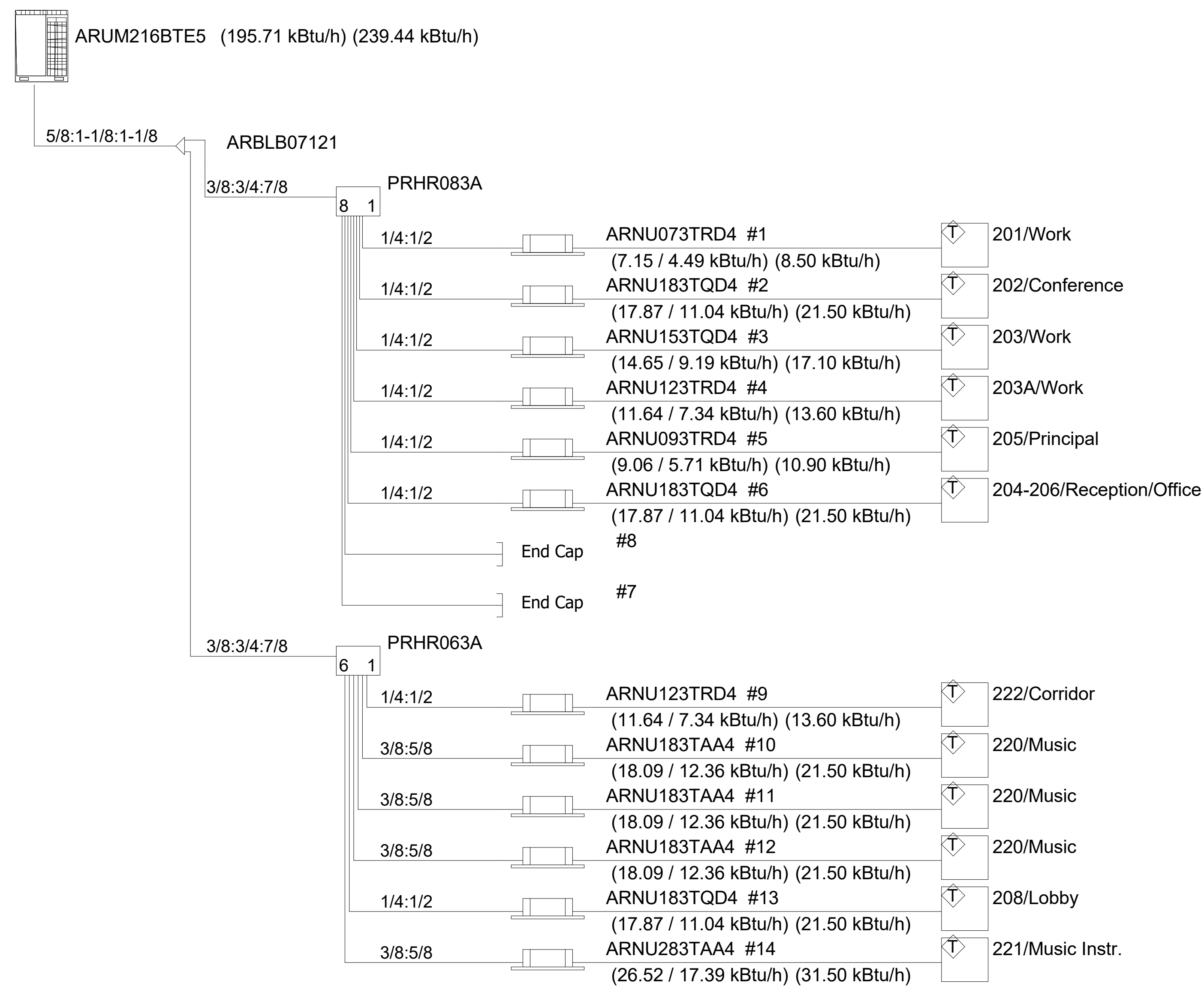
M702



1 EXISTING BOILER PLANT CONTROL SYSTEM
NOT TO SCALE

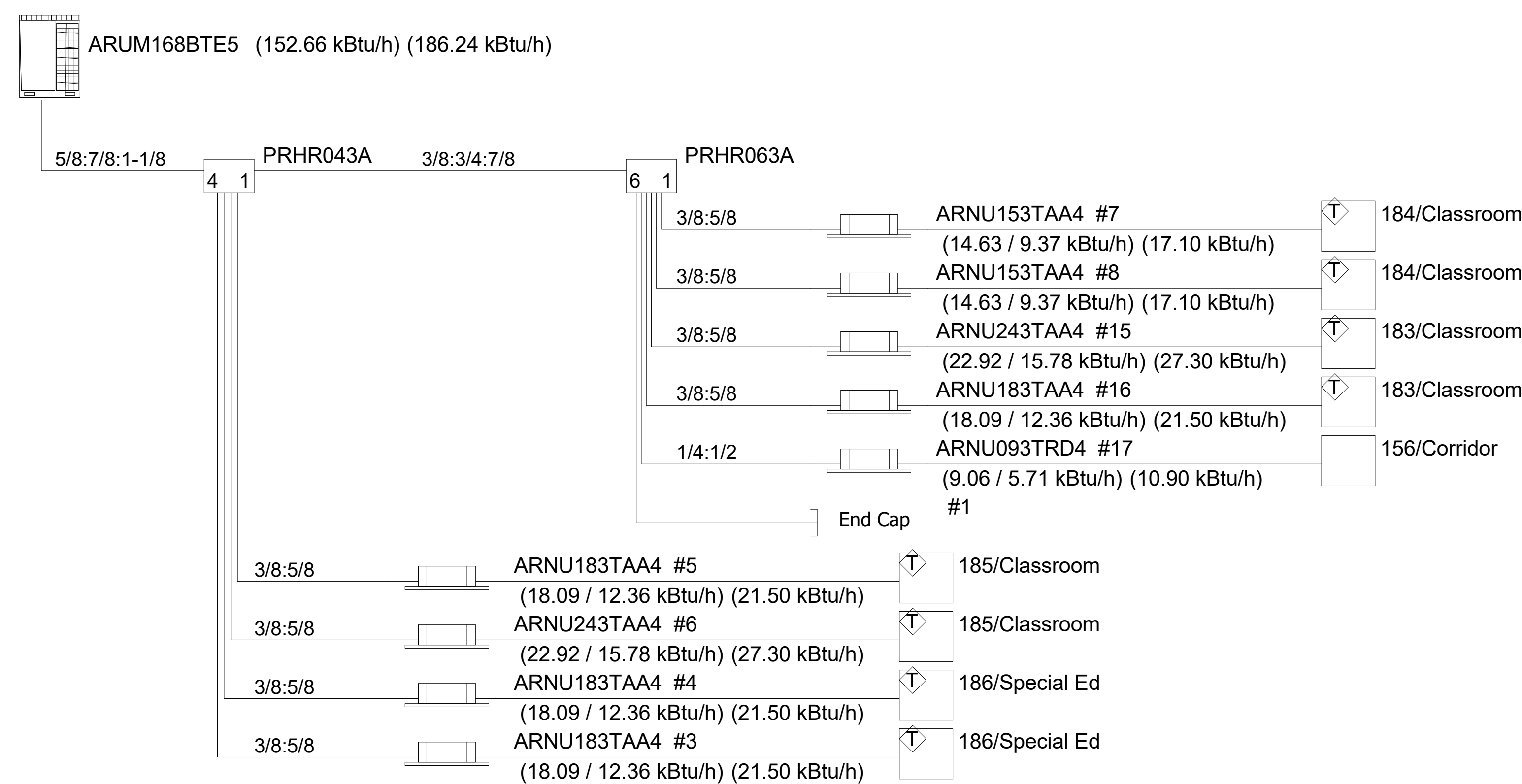
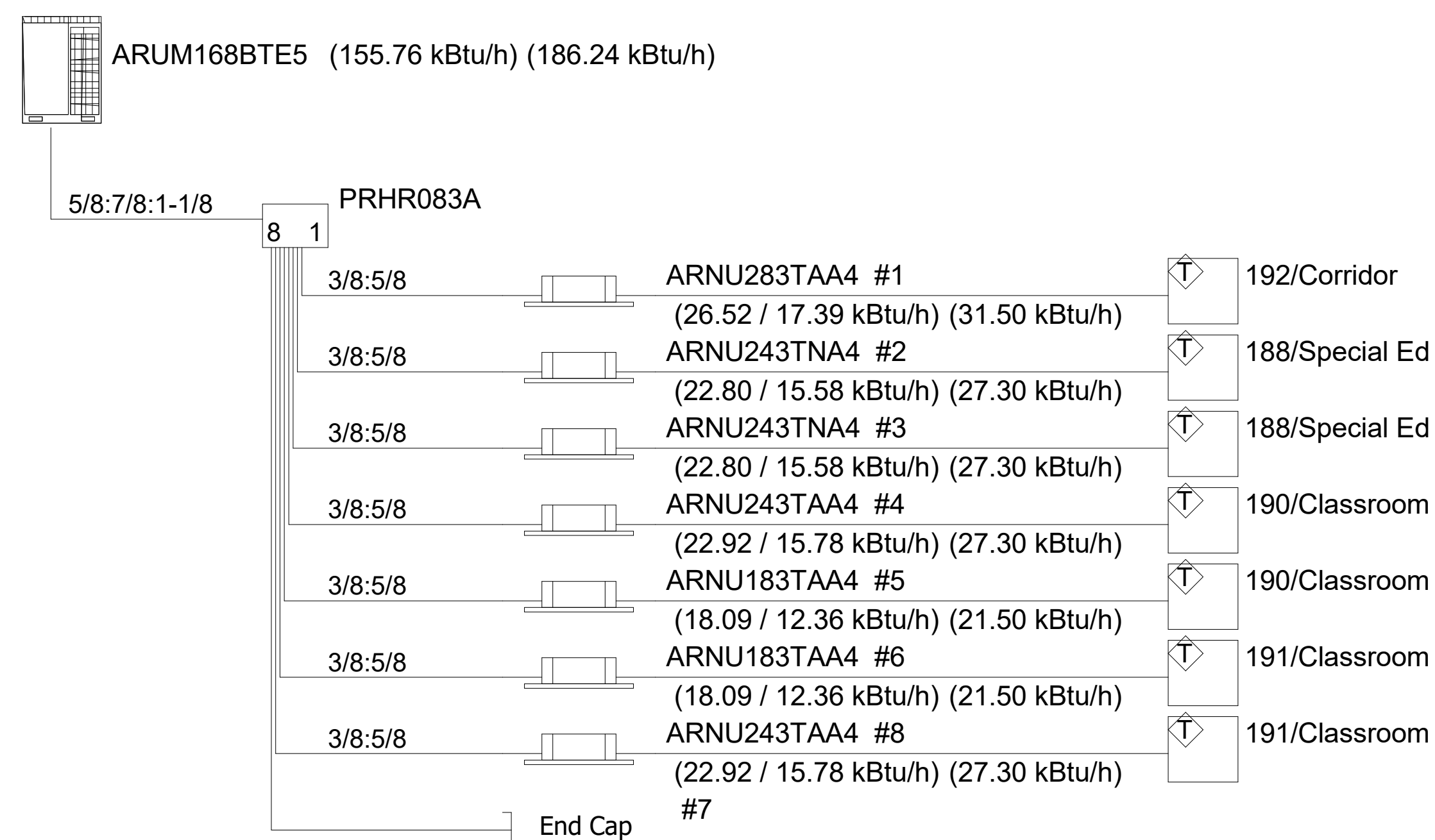


2 EXISTING INDIRECT HW TANK CONTROL SYSTEMS
NOT TO SCALE



1 VRF-1 SYSTEM PIPING DIAGRAM
12" = 1'-0"

2 VRF-2 SYSTEM PIPING DIAGRAM
12" = 1'-0"



3 VRF-3 SYSTEM PIPING DIAGRAM
12" = 1'-0"

4 VRF-4 SYSTEM PIPING DIAGRAM
12" = 1'-0"

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DOCUMENTS

Title:
MECHANICAL VRF PIPING
DIAGRAM

Sheet No.:

NO	DATE	DESCRIPTION

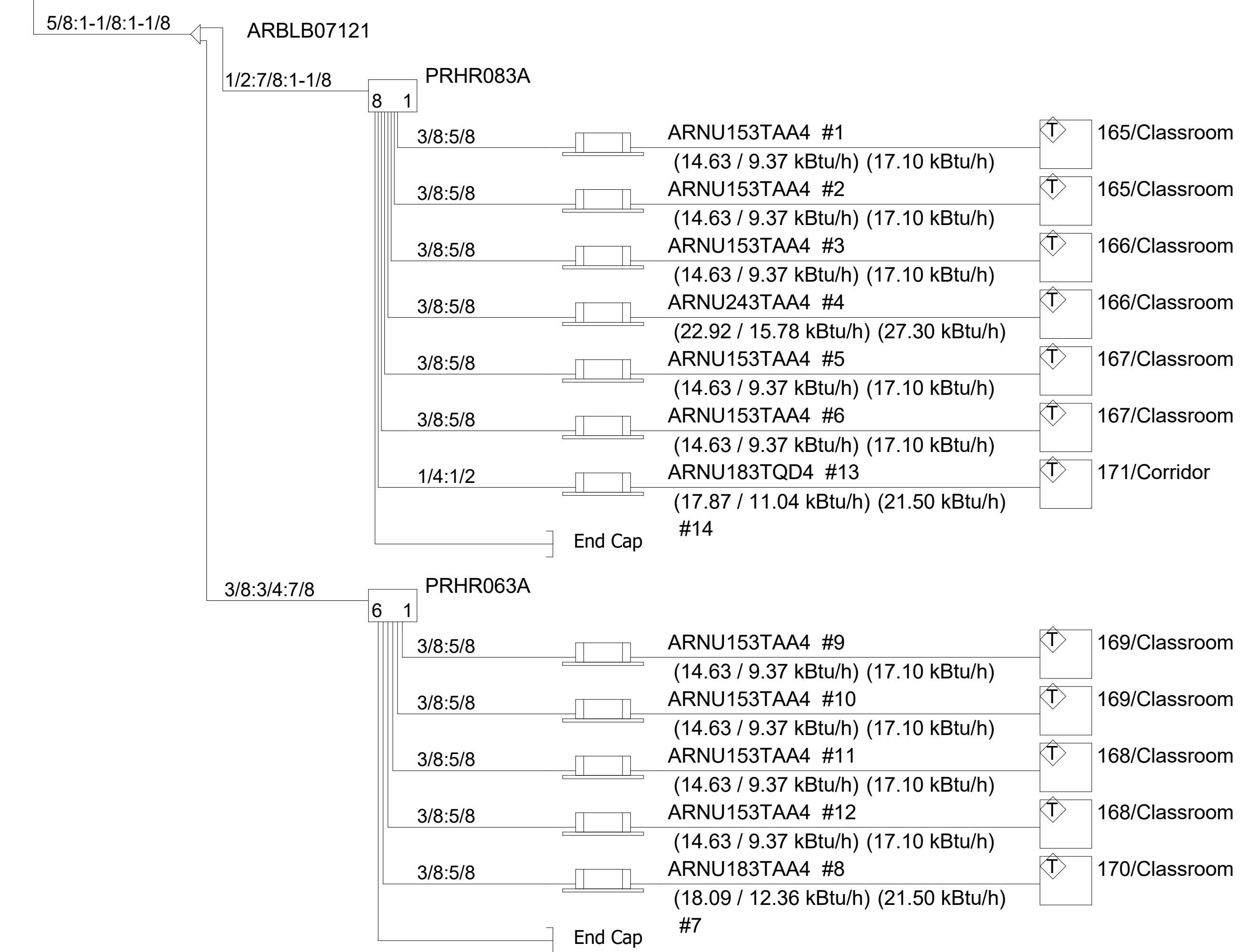
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MECHANICAL VRF PIPING
DIAGRAM

Sheet No.

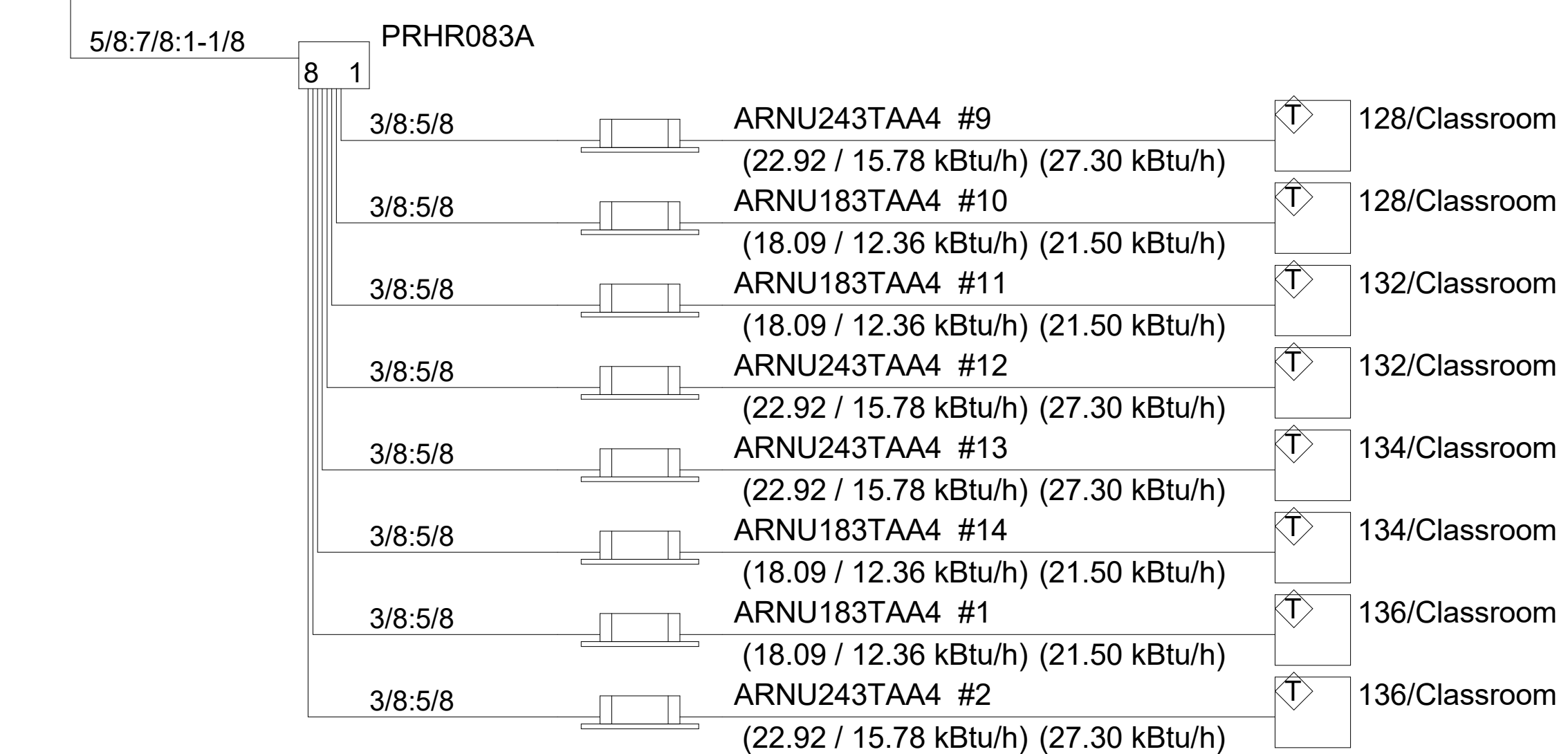
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ARUM192BTE5 (177.54 kBTu/h) (214.33 kBTu/h)



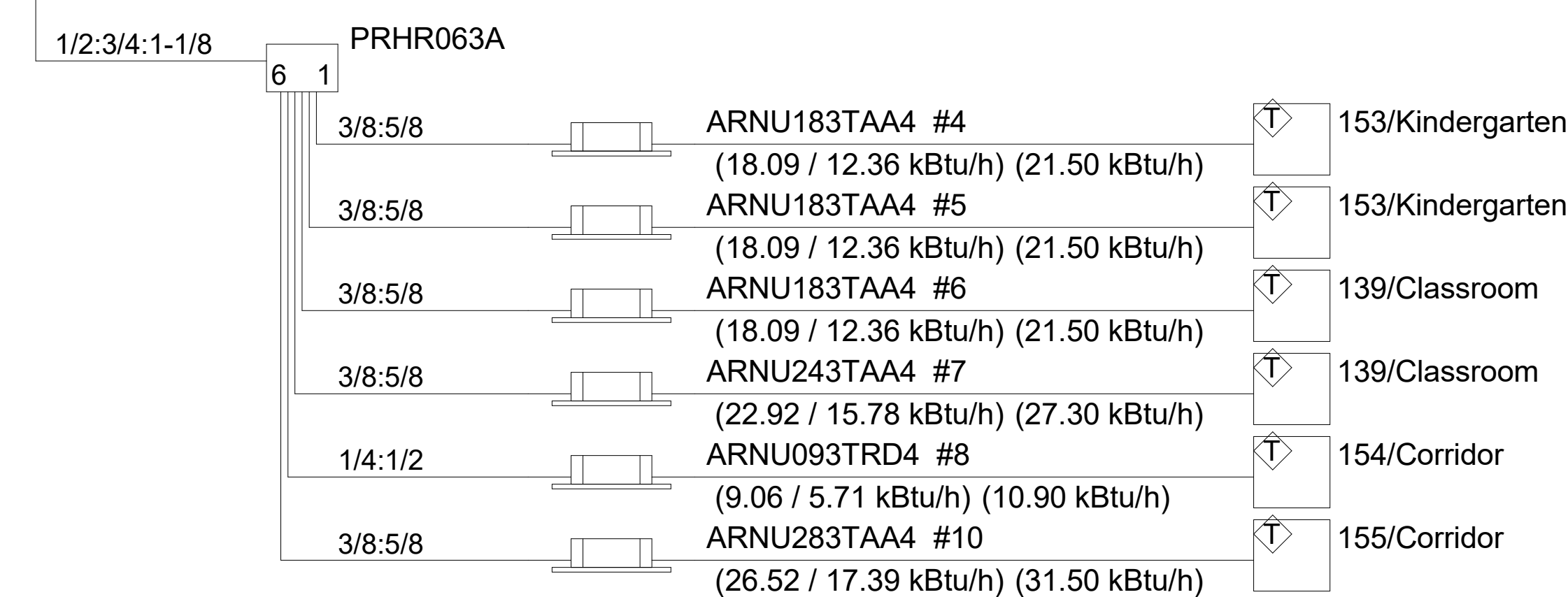
1 VRF-5 SYSTEM PIPING DIAGRAM
12" = 1'-0"

ARUM168BTE5 (154.39 kBTu/h) (186.24 kBTu/h)



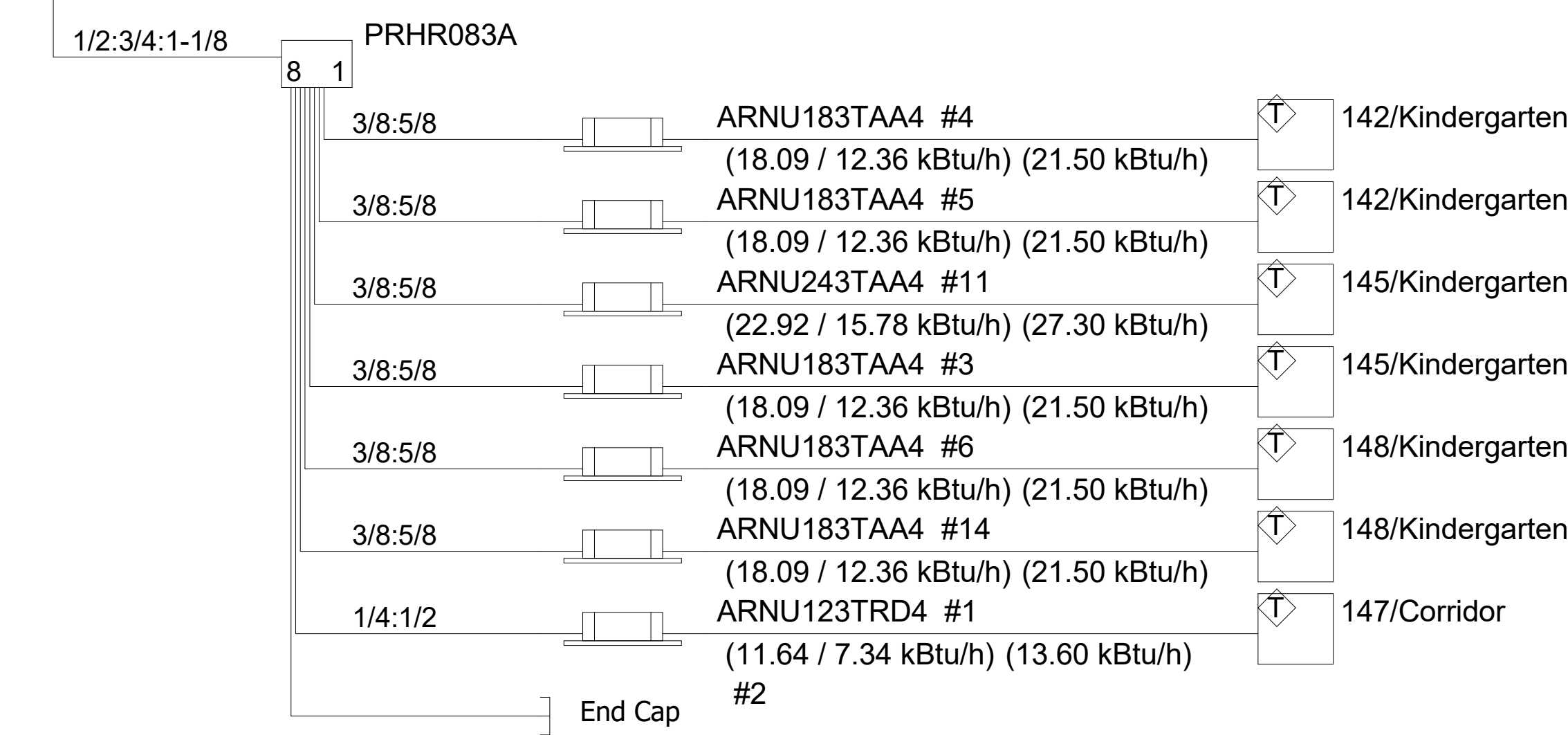
2 VRF-6 SYSTEM PIPING DIAGRAM
12" = 1'-0"

ARUM121BTE5 (111.90 kBTu/h) (133.04 kBTu/h)



3 VRF-7 SYSTEM PIPING DIAGRAM
12" = 1'-0"

ARUM121BTE5 (116.12 kBTu/h) (136.00 kBTu/h)



4 VRF-8 SYSTEM PIPING DIAGRAM
12" = 1'-0"



1 OVERALL FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

DEMOLITION POWER PLAN NOTES

(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR EXTENT OF BUILDING DEMOLITION WORK. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR EXTENT OF WALL RENOVATIONS, PATCHING AND FINISHES.
- ELECTRICAL CONTRACTOR SHALL REMOVE/RELOCATE DEVICES AS NOTED ON THIS DRAWING.
- PRIOR TO BIDDING, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY SCOPE OF DEMOLITION WORK WITH BUILDING OWNER. PROVIDE LABOR AND EQUIPMENT TO COMPLETE WORK AS REQUIRED AND INSPECT PROJECT SITE TO DETERMINE CONDITIONS UNDER WHICH DEMOLITION IS TO BE ACCOMPLISHED ALONG WITH KIND AND AMOUNT OF MATERIALS BEING REMOVED. INCLUDE COST OF WORK REQUIRED TO ACCOMMODATE ALL EXISTING CONDITIONS IN THE BID PROPOSAL.
- REMOVE ALL ELECTRICAL DEVICES AS NOTED.
- ALL SALVAGEABLE EQUIPMENT REMOVED SHALL BECOME PROPERTY OF OWNER AND SHALL BE STORED ON SITE AS DIRECTED. ALL NON-SALVAGEABLE MATERIALS SHALL BE REMOVED IN ITS ENTIRETY FROM SITE AND DISPOSED OF BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE LAWS.

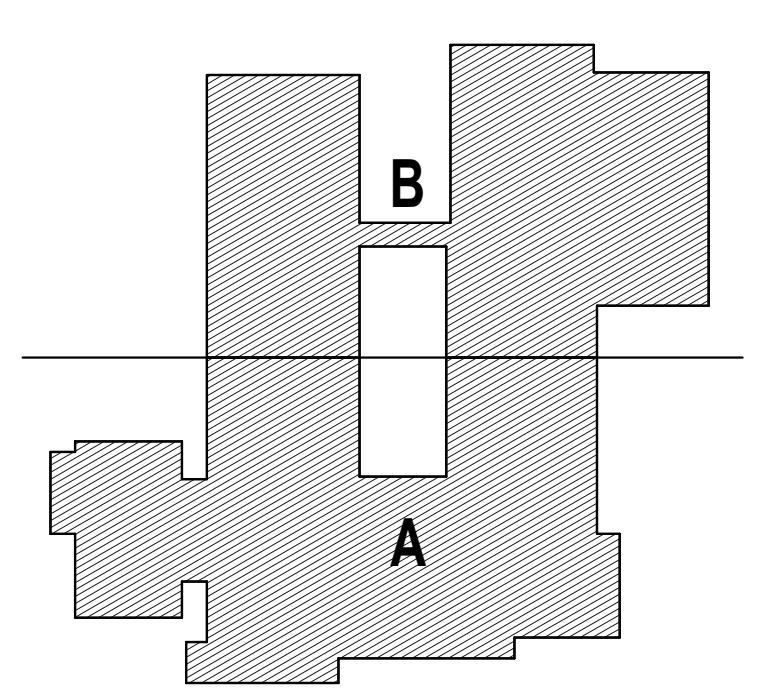
- WHERE REMOVAL OR RELOCATION OF EXISTING CONDUIT PASSES THROUGH WALLS, OPENINGS SHALL BE PATCHED, SEALED, AND PAINTED TO MATCH THE SURROUNDING WALL. WHERE REMOVAL OR RELOCATION OF EXISTING CONDUIT PASSES THROUGH FLOOR, OPENINGS SHALL BE PATCHED AND SEALED TO MATCH SURROUNDING FLOOR. CONSULT ARCHITECT ON LOCATIONS AND MATERIALS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL SEAL ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED PARTITIONS, INCLUDING THOSE LEFT DUE TO REMOVAL OF DEVICES OR CONDUIT DURING DEMOLITION, WITH FIRE RATED MATERIAL EQUAL TO DOW CORNING SILICONE RTV FOAM AS A MINIMUM. MATERIAL SELECTION SHALL BE BASED ON RATING OF PARTITION PENETRATED.
- FURNISH AND INSTALL KNOCKOUT COVERS OR PLUGS ON ALL EXISTING PANELS, EQUIPMENT, AND OUTLET BOX OPENINGS CREATED BY REMOVAL OR RELOCATION OF EXISTING RACEWAYS.
- EXTEND/ROUTER WIRING AND CONDUIT, AS REQUIRED, TO ALL ELECTRICAL DEVICES RELOCATED DURING DEMOLITION UNLESS SPECIFICALLY NOTED OTHERWISE.
- COORDINATE POWER SHUTDOWN REQUIREMENTS WITH OWNER A MINIMUM OF 7 DAYS IN ADVANCE OF PLANNED SHUTDOWN. DO NOT PROCEED WITH SHUTDOWN WITHOUT WRITTEN AUTHORIZATION TO PROCEED.

DEMOLITION POWER PLAN KEY NOTES

(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- ALL EXISTING POWER, LIGHTING & FIRE ALARM DEVICES TO REMAIN. COORDINATE MECHANICAL AND PLUMBING EQUIPMENT DEMOLITION REQUIREMENTS WITH MECHANICAL AND PLUMBING DEMOLITION DRAWINGS.
- EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED, DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY.
- EXISTING MECHANICAL EQUIPMENT TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
- EXISTING UTILITY METER TO REMAIN.
- EXISTING SINGLE PHASE TRANSFORMER TO BE DEMOLISHED, DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY. COORDINATE PHASING WITH PHASING NOTES ON SHEET E601.

KEY PLAN



KEY PLAN

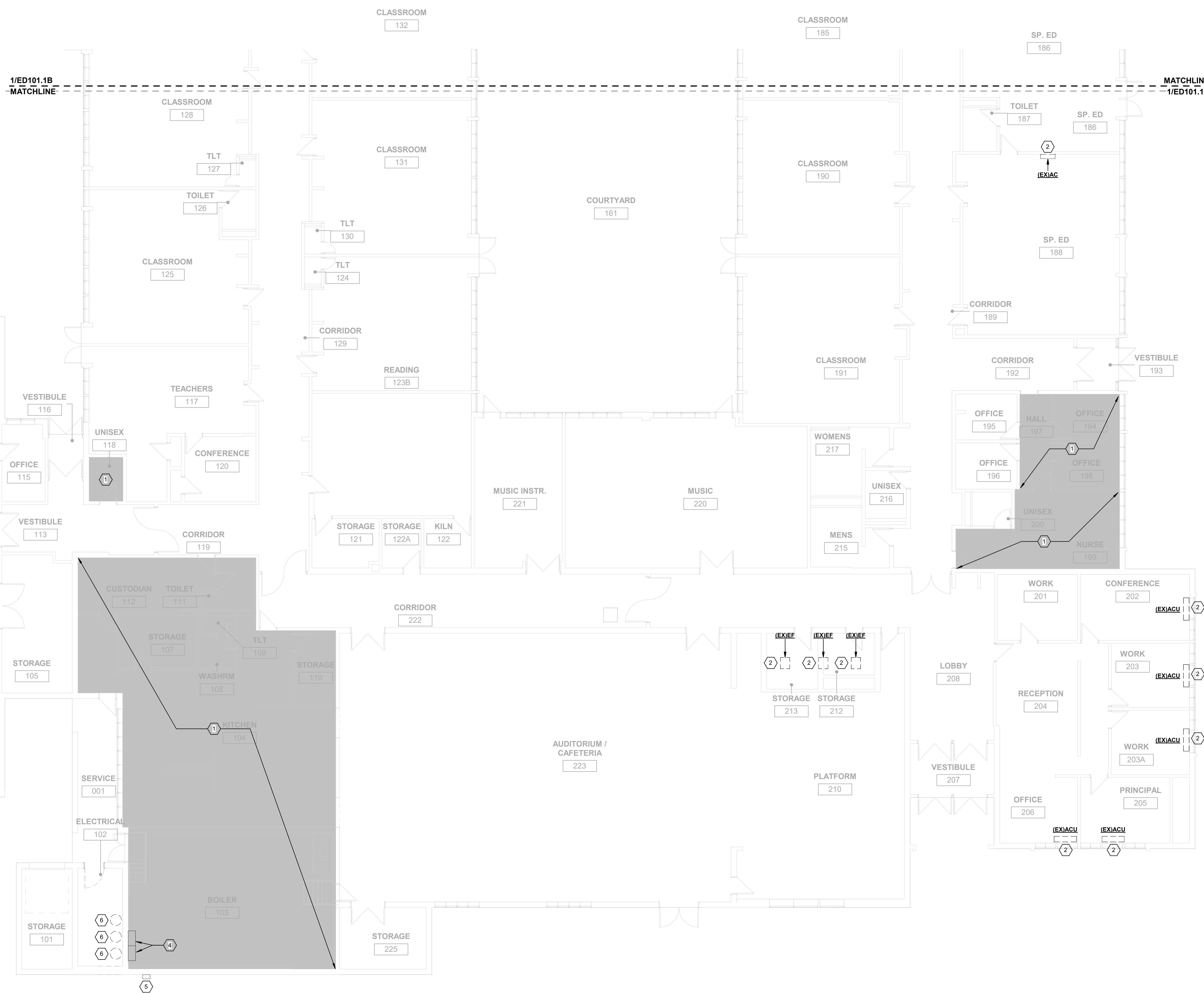
NO	DATE	DESCRIPTION

Designed: DB
 Drawn: PS
 Reviewed: DB
 Project No.: 2303053
 Date: 09/29/2023
 Issued for:
95% CONSTRUCTION DOCUMENTS
 Title:
OVERALL FIRST FLOOR DEMOLITION ELECTRICAL PLAN

Sheet No.
ED101.1

REVISIONS	NO	DATE	DESCRIPTION

Designed:	DB
Drawn:	PS
Reviewed:	DB
Project No.:	2303053
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	PARTIAL FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA A
Sheet No.:	



1 PARTIAL FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA A
1/8" = 1'-0"

DEMOLITION POWER PLAN NOTES

(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR EXTENT OF BUILDING DEMOLITION WORK. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR EXTENT OF WALL RENOVATIONS, PATCHING AND FINISHES.
- ELECTRICAL CONTRACTOR SHALL REMOVE/RELOCATE DEVICES AS NOTED ON THIS DRAWING.
- PRIOR TO BIDDING, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY SCOPE OF DEMOLITION WORK WITH BUILDING OWNER. PROVIDE LABOR AND EQUIPMENT TO COMPLETE WORK AS REQUIRED AND INSPECT PROJECT SITE TO DETERMINE CONDITIONS UNDER WHICH DEMOLITION IS TO BE ACCOMPLISHED ALONG WITH KIND AND AMOUNT OF MATERIALS BEING REMOVED. INCLUDE COST OF WORK REQUIRED TO ACCOMMODATE ALL EXISTING CONDITIONS IN THE BID PROPOSAL.
- REMOVE ALL ELECTRICAL DEVICES AS NOTED.
- ALL SALVAGEABLE EQUIPMENT REMOVED SHALL BECOME PROPERTY OF OWNER AND SHALL BE STORED ON SITE AS DIRECTED. ALL NON-SALVAGEABLE MATERIALS SHALL BE REMOVED IN ITS ENTIRETY FROM SITE AND DISPOSED OF BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE LAWS.

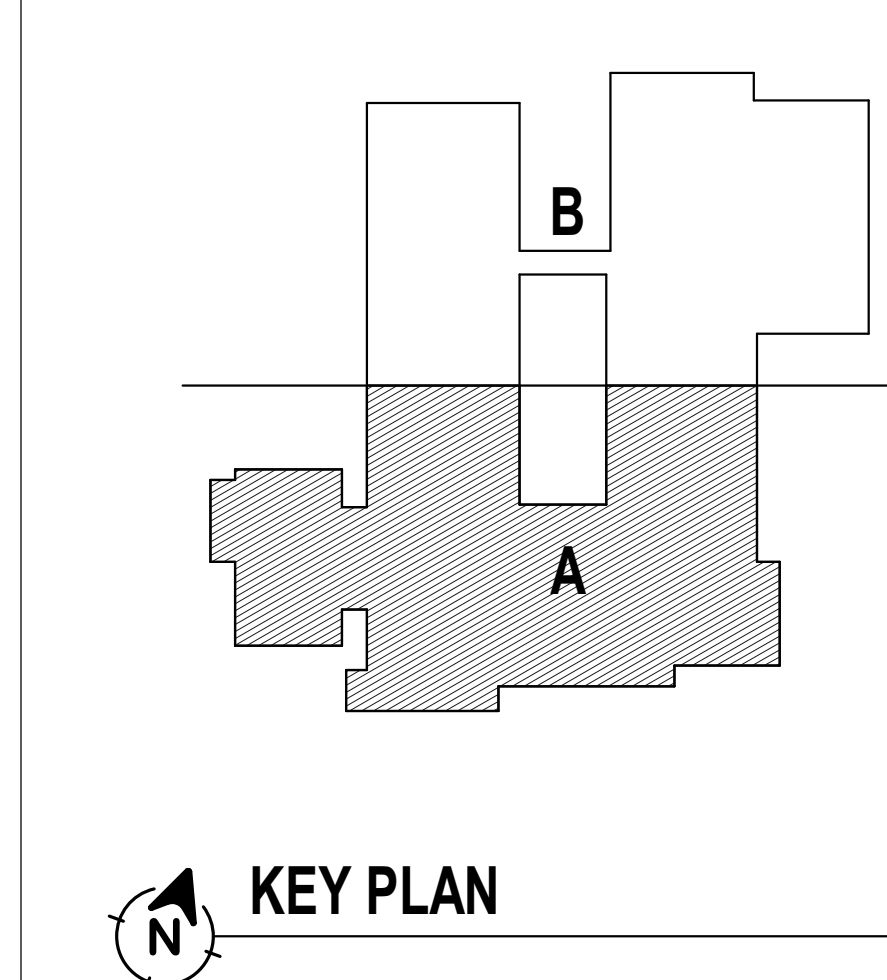
- WHERE REMOVAL OR RELOCATION OF EXISTING CONDUIT PASSES THROUGH WALLS, OPENINGS SHALL BE PATCHED, SEALED, AND PAINTED TO MATCH THE SURROUNDING WALL. WHERE REMOVAL OR RELOCATION OF EXISTING CONDUIT PASSES THROUGH FLOOR, OPENINGS SHALL BE PATCHED AND SEALED TO MATCH SURROUNDING FLOOR. CONSULT ARCHITECT ON LOCATIONS AND MATERIALS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL SEAL ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED PARTITIONS, INCLUDING THOSE LEFT DUE TO REMOVAL OF DEVICES OR CONDUIT DURING DEMOLITION, WITH FIRE RATED MATERIAL EQUAL TO DOW CORNING SILICONE RTV FOAM AS A MINIMUM. MATERIAL SELECTION SHALL BE BASED ON RATING OF PARTITION PENETRATED.
- FURNISH AND INSTALL KNOCKOUT COVERS OR PLUGS ON ALL EXISTING PANELS, EQUIPMENT, AND OUTLET BOX OPENINGS CREATED BY REMOVAL OR RELOCATION OF EXISTING RACEWAYS.
- EXTEND/REROUTE WIRING AND CONDUIT, AS REQUIRED, TO ALL ELECTRICAL DEVICES RELOCATED DURING DEMOLITION UNLESS SPECIFICALLY NOTED OTHERWISE.
- COORDINATE POWER SHUTDOWN REQUIREMENTS WITH OWNER A MINIMUM OF 7 DAYS IN ADVANCE OF PLANNED SHUTDOWN. DO NOT PROCEED WITH SHUTDOWN WITHOUT WRITTEN AUTHORIZATION TO PROCEED.

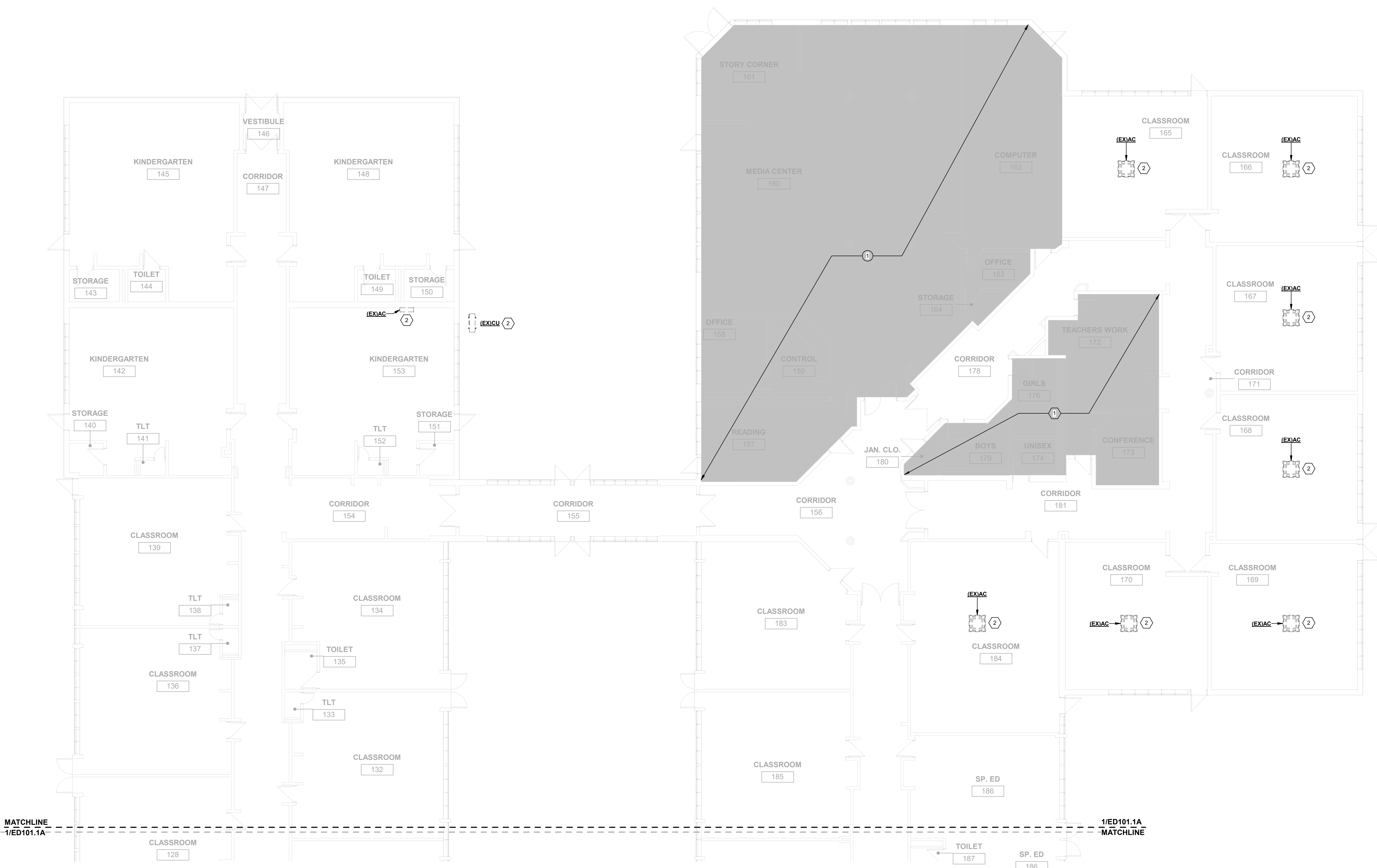
DEMOLITION POWER PLAN KEY NOTES

(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- ALL EXISTING POWER, LIGHTING & FIRE ALARM DEVICES TO REMAIN. COORDINATE MECHANICAL AND PLUMBING EQUIPMENT DEMOLITION REQUIREMENTS WITH MECHANICAL AND PLUMBING DEMOLITION DRAWINGS.
- EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY.
- EXISTING MECHANICAL EQUIPMENT TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
- EXISTING UTILITY METER TO REMAIN.
- EXISTING SINGLE PHASE TRANSFORMER TO BE DEMOLISHED. DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY. COORDINATE PHASING WITH PHASING NOTES ON SHEET E601.

KEY PLAN





1 PARTIAL FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA B
1/8" = 1'-0"

DEMOLITION POWER PLAN NOTES

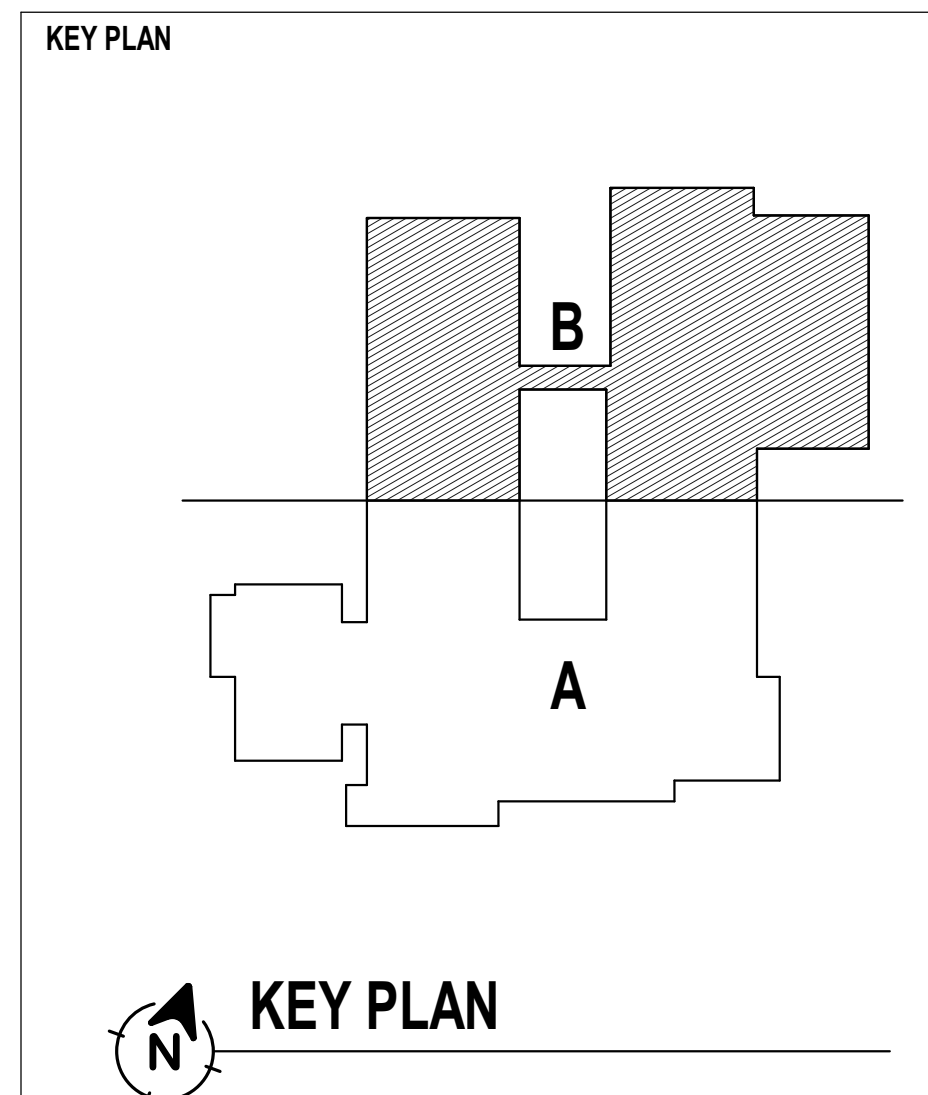
(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR EXTENT OF BUILDING DEMOLITION WORK. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR EXTENT OF WALL RENOVATIONS, PATCHING AND FINISHES.
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- WHERE REMOVAL OR RELOCATION OF EXISTING CONDUIT PASSES THROUGH WALLS, OPENINGS SHALL BE PATCHED, SEALED, AND PAINTED TO MATCH THE SURROUNDING WALL. WHERE REMOVAL OR RELOCATION OF EXISTING CONDUIT PASSES THROUGH FLOOR, OPENINGS SHALL BE PATCHED AND SEALED TO MATCH SURROUNDING FLOOR. CONSULT ARCHITECT ON LOCATIONS AND MATERIALS REQUIRED.
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- EXTEND/REROUTE WIRING AND CONDUIT, AS REQUIRED, TO ALL ELECTRICAL DEVICES RELOCATED DURING DEMOLITION UNLESS SPECIFICALLY NOTED OTHERWISE.
- COORDINATE POWER SHUTDOWN REQUIREMENTS WITH OWNER A MINIMUM OF 7 DAYS IN ADVANCE OF PLANNED SHUTDOWN. DO NOT PROCEED WITH SHUTDOWN WITHOUT WRITTEN AUTHORIZATION TO PROCEED.

DEMOLITION POWER PLAN KEY NOTES

(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- ALL EXISTING POWER, LIGHTING & FIRE ALARM DEVICES TO REMAIN. COORDINATE MECHANICAL AND PLUMBING EQUIPMENT DEMOLITION REQUIREMENTS WITH MECHANICAL AND PLUMBING DEMOLITION DRAWINGS.
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- EXISTING MECHANICAL EQUIPMENT TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
- EXISTING UTILITY METER TO REMAIN.
- EXISTING SINGLE PHASE TRANSFORMER TO BE DEMOLISHED. DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY. COORDINATE PHASING WITH PHASING NOTES ON SHEET E601.





1 OVERALL ROOF ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

DEMOLITION POWER PLAN NOTES

(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR EXTENT OF BUILDING DEMOLITION WORK. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR EXTENT OF WALL RENOVATIONS, PATCHING AND FINISHES.
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- REMOVE ALL ELECTRICAL DEVICES AS NOTED.
- ALL SALVAGEABLE EQUIPMENT REMOVED SHALL BECOME PROPERTY OF OWNER AND SHALL BE STORED ON SITE AS DIRECTED. ALL NON-SALVAGEABLE MATERIALS SHALL BE REMOVED IN ITS ENTIRETY FROM SITE AND DISPOSED OF BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE LAWS.

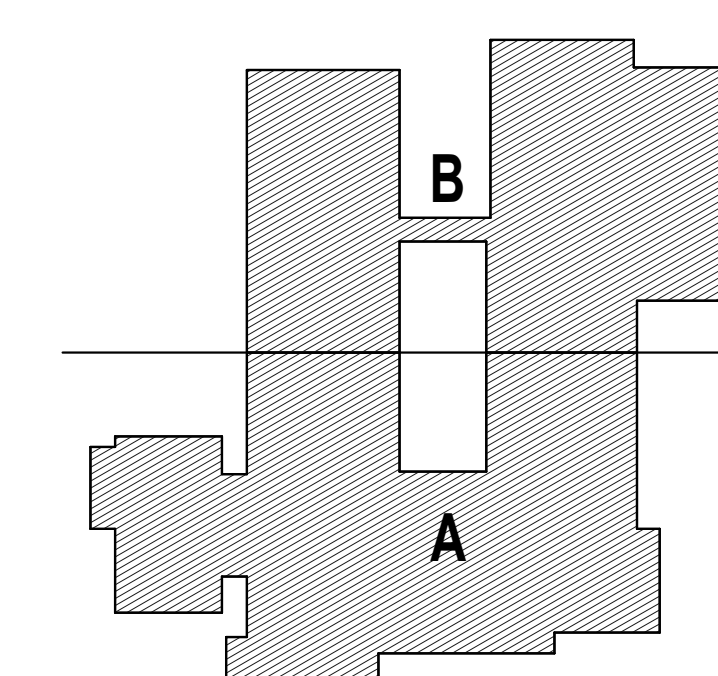
- WHERE REMOVAL OR RELOCATION OF EXISTING CONDUIT PASSES THROUGH WALLS, OPENINGS SHALL BE PATCHED, SEALED, AND PAINTED TO MATCH THE SURROUNDING WALL. WHERE REMOVAL OR RELOCATION OF EXISTING CONDUIT PASSES THROUGH FLOOR, OPENINGS SHALL BE PATCHED AND SEALED TO MATCH SURROUNDING FLOOR. CONSULT ARCHITECT ON LOCATIONS AND MATERIALS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL SEAL ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED PARTITIONS, INCLUDING THOSE LEFT DUE TO REMOVAL OF DEVICES OR CONDUIT DURING DEMOLITION, WITH FIRE RATED MATERIAL EQUAL TO DOW CORNING SILICONE RTV FOAM AS A MINIMUM. MATERIAL SELECTION SHALL BE BASED ON RATING OF PARTITION PENETRATED.
- FURNISH AND INSTALL KNOCKOUT COVERS OR PLUGS ON ALL EXISTING PANELS, EQUIPMENT, AND OUTLET BOX OPENINGS CREATED BY REMOVAL OR RELOCATION OF EXISTING RACEWAYS.
- EXTEND/ROUTING WIRING AND CONDUIT, AS REQUIRED, TO ALL ELECTRICAL DEVICES RELOCATED DURING DEMOLITION UNLESS SPECIFICALLY NOTED OTHERWISE.
- COORDINATE POWER SHUTDOWN REQUIREMENTS WITH OWNER A MINIMUM OF 7 DAYS IN ADVANCE OF PLANNED SHUTDOWN. DO NOT PROCEED WITH SHUTDOWN WITHOUT WRITTEN AUTHORIZATION TO PROCEED.

DEMOLITION POWER PLAN KEY NOTES

(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- ALL EXISTING POWER, LIGHTING & FIRE ALARM DEVICES TO REMAIN. COORDINATE MECHANICAL AND PLUMBING EQUIPMENT DEMOLITION REQUIREMENTS WITH MECHANICAL AND PLUMBING DEMOLITION DRAWINGS.
- EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY.
- EXISTING MECHANICAL EQUIPMENT TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
- EXISTING UTILITY METER TO REMAIN.
- EXISTING SINGLE PHASE TRANSFORMER TO BE DEMOLISHED. DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY. COORDINATE PHASING WITH PHASING NOTES ON SHEET E601.

KEY PLAN



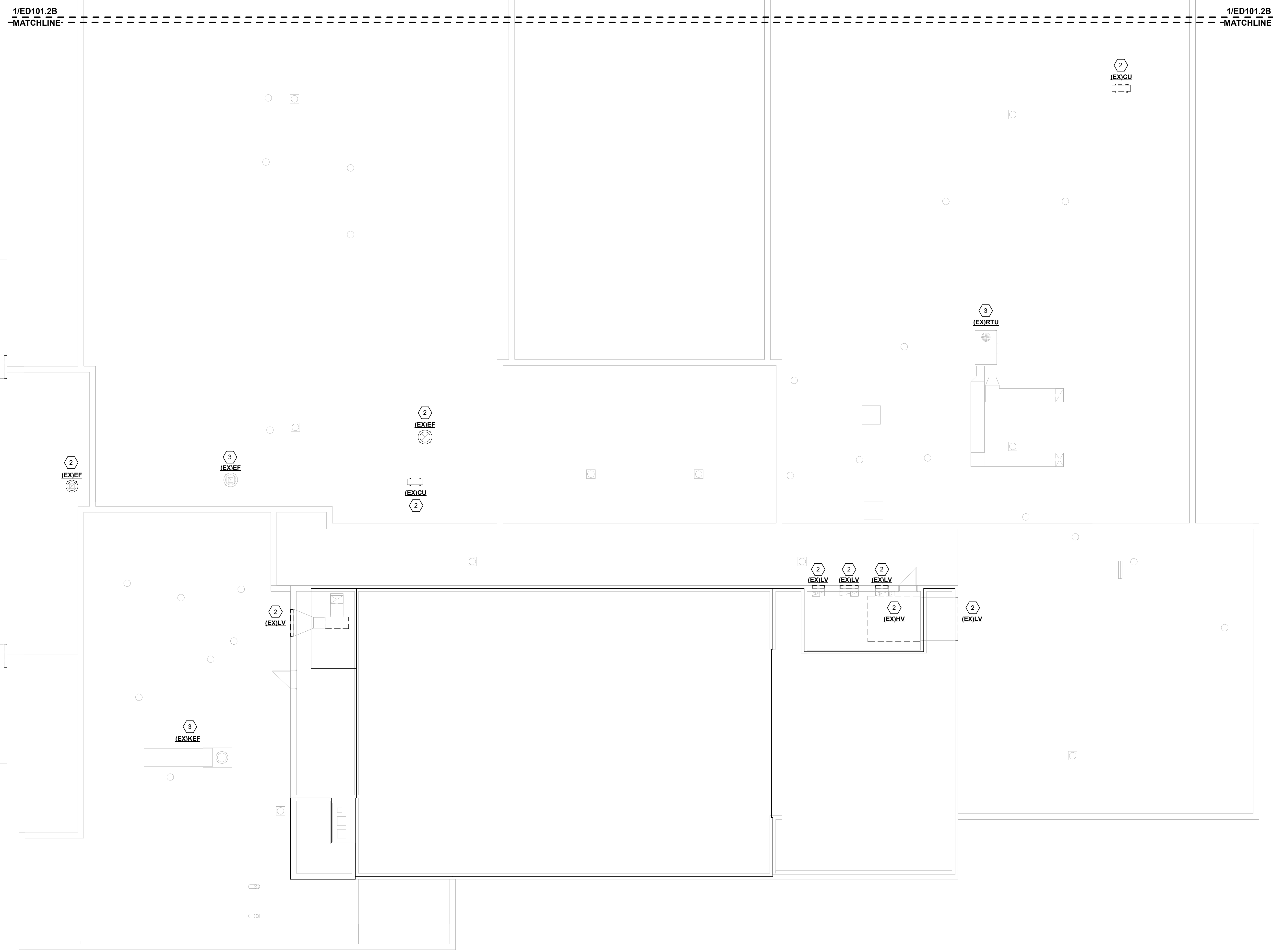
KEY PLAN

NO	DATE	DESCRIPTION

Designed:	DB
Drawn:	PS
Reviewed:	DB
Project No.:	2303053
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	OVERALL ROOF ELECTRICAL DEMOLITION PLAN
Sheet No.:	ED101.2

NO	DATE	DESCRIPTION

Designed:	DB
Drawn:	PS
Reviewed:	DB
Project No.:	2303053
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	PARTIAL ROOF ELECTRICAL DEMOLITION PLAN - AREA A
Sheet No.:	



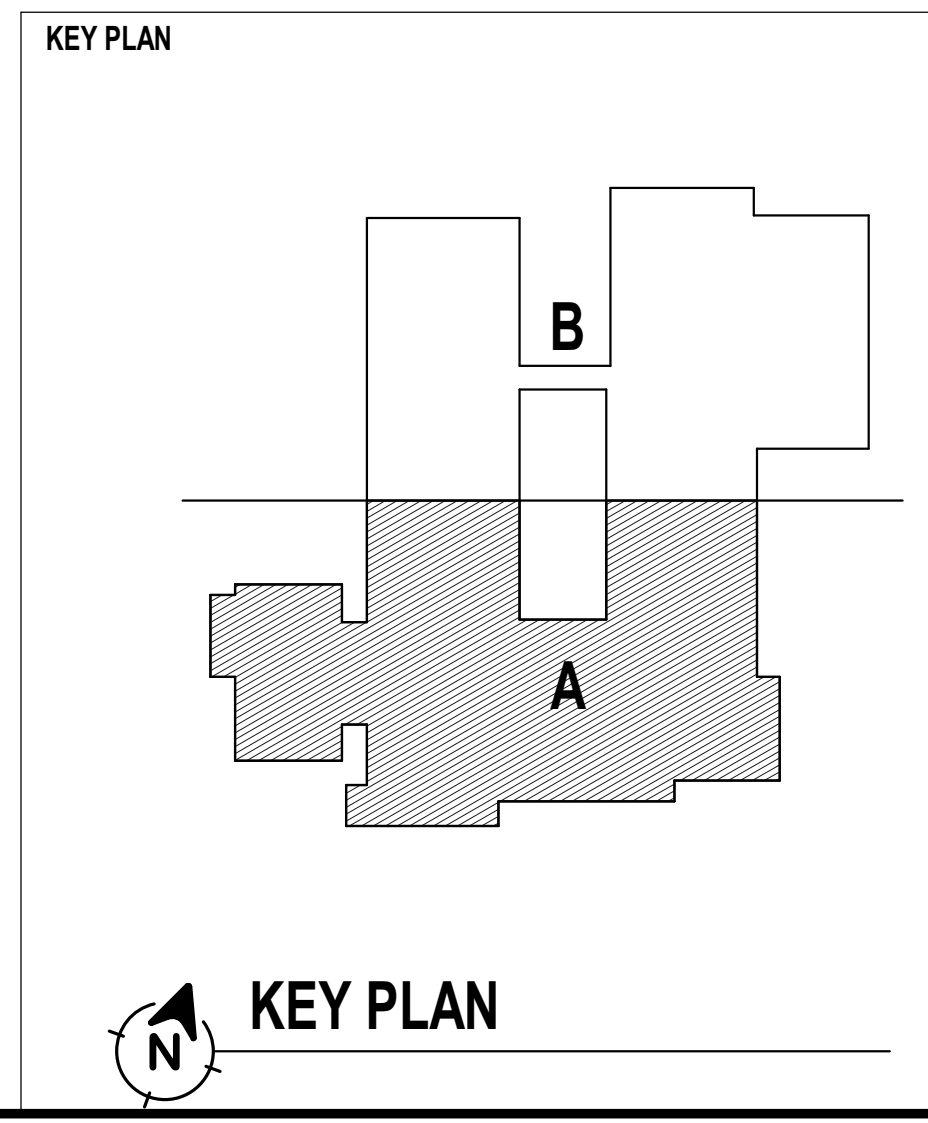
1 PARTIAL ROOF ELECTRICAL DEMOLITION PLAN - AREA A
1/8" = 1'-0"

DEMOLITION POWER PLAN NOTES

- (ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)
- REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR EXTENT OF BUILDING DEMOLITION WORK. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR EXTENT OF WALL RENOVATIONS, PATCHING AND FINISHES.
 - ELECTRICAL CONTRACTOR SHALL REMOVE/RELOCATE DEVICES AS NOTED ON THIS DRAWING.
 - PRIOR TO BIDDING, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY SCOPE OF DEMOLITION WORK WITH BUILDING OWNER. PROVIDE LABOR AND EQUIPMENT TO COMPLETE WORK AS REQUIRED AND INSPECT PROJECT SITE TO DETERMINE CONDITIONS UNDER WHICH DEMOLITION IS TO BE ACCOMPLISHED ALONG WITH KIND AND AMOUNT OF MATERIALS BEING REMOVED. INCLUDE COST OF WORK REQUIRED TO ACCOMMODATE ALL EXISTING CONDITIONS IN THE BID PROPOSAL.
 - REMOVE ALL ELECTRICAL DEVICES AS NOTED.
 - ALL SALVAGEABLE EQUIPMENT REMOVED SHALL BECOME PROPERTY OF OWNER AND SHALL BE STORED ON SITE AS DIRECTED. ALL NON-SALVAGEABLE MATERIALS SHALL BE REMOVED IN ITS ENTIRETY FROM SITE AND DISPOSED OF BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE LAWS.

DEMOLITION POWER PLAN KEY NOTES

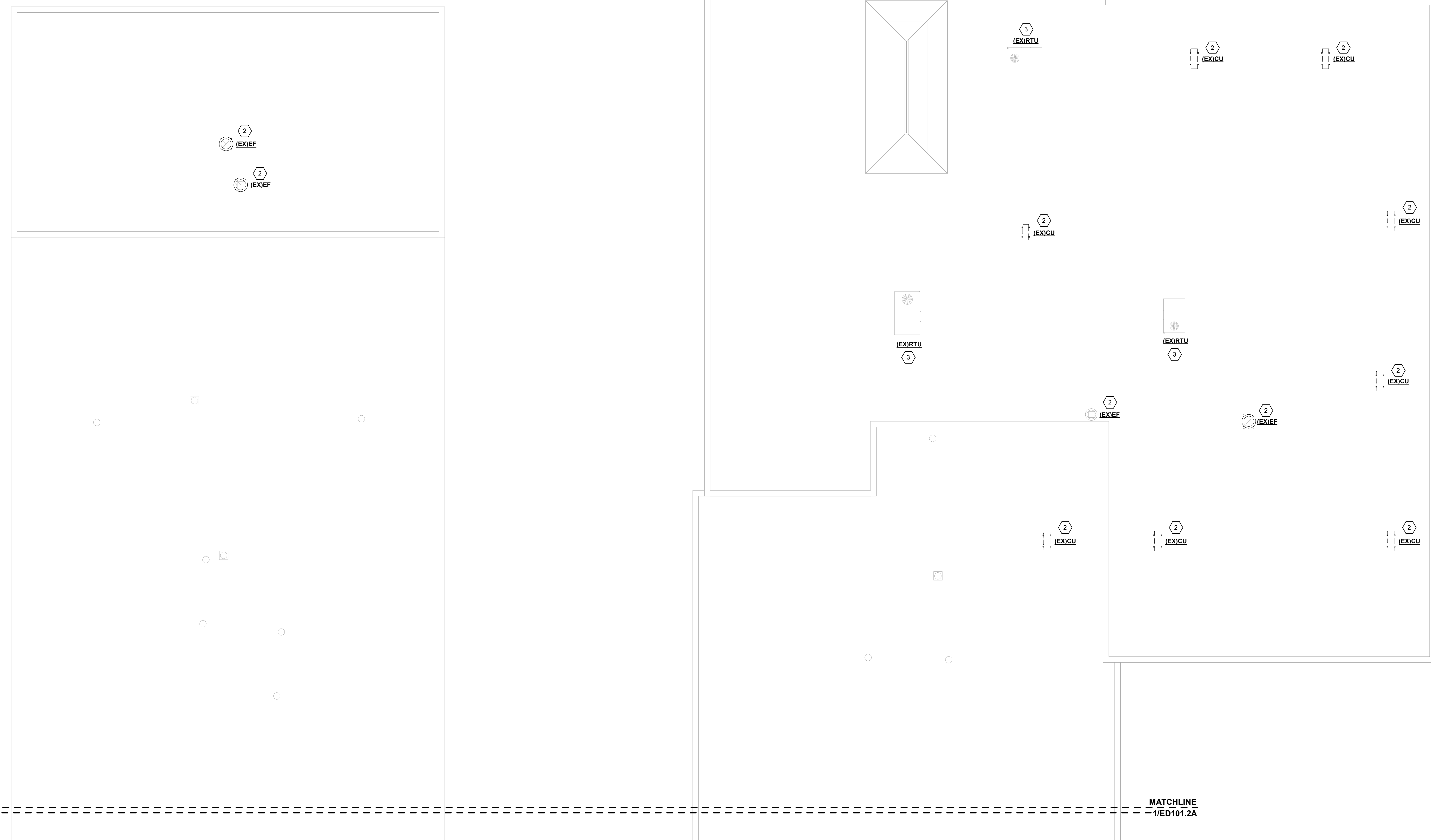
- (ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)
- ALL EXISTING POWER, LIGHTING & FIRE ALARM DEVICES TO REMAIN. COORDINATE MECHANICAL AND PLUMBING EQUIPMENT DEMOLITION REQUIREMENTS WITH MECHANICAL AND PLUMBING DEMOLITION DRAWINGS.
 - EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY.
 - EXISTING MECHANICAL EQUIPMENT TO REMAIN.
 - EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
 - EXISTING UTILITY METER TO REMAIN.
 - EXISTING SINGLE PHASE TRANSFORMER TO BE DEMOLISHED. DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY. COORDINATE PHASING WITH PHASING NOTES ON SHEET E601.



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NO	DATE	DESCRIPTION

Designed:	DB
Drawn:	PS
Reviewed:	DB
Project No.:	2303053
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	PARTIAL ROOF ELECTRICAL DEMOLITION PLAN - AREA B
Sheet No.:	ED101.2B



1 PARTIAL ROOF ELECTRICAL DEMOLITION PLAN - AREA B
1/8" = 1'-0"

DEMOLITION POWER PLAN NOTES

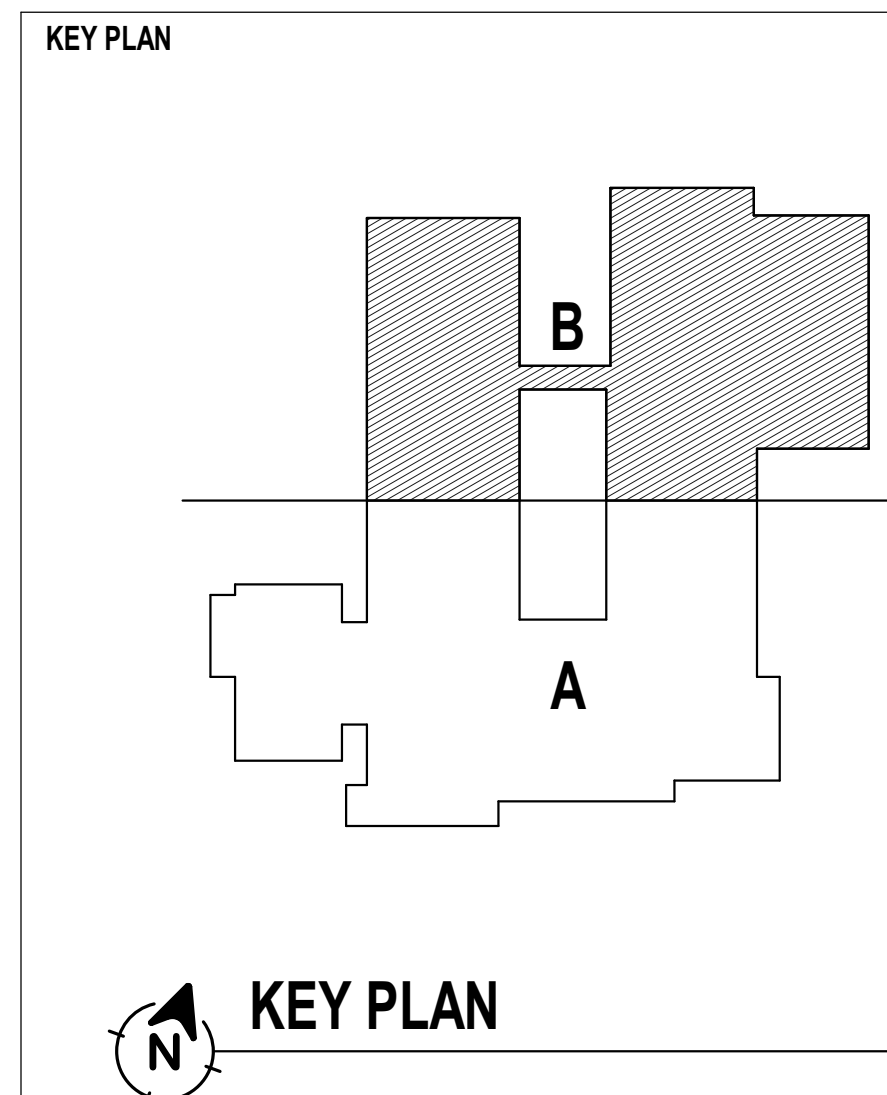
(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR EXTENT OF BUILDING DEMOLITION WORK. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS FOR EXTENT OF WALL RENOVATIONS, PATCHING AND FINISHES.
- ELECTRICAL CONTRACTOR SHALL REMOVE/RELOCATE DEVICES AS NOTED ON THIS DRAWING.
- PRIOR TO BIDDING, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY SCOPE OF DEMOLITION WORK WITH BUILDING OWNER. PROVIDE LABOR AND EQUIPMENT TO COMPLETE WORK AS REQUIRED AND INSPECT PROJECT SITE TO DETERMINE CONDITIONS UNDER WHICH DEMOLITION IS TO BE ACCOMPLISHED ALONG WITH KIND AND AMOUNT OF MATERIALS BEING REMOVED. INCLUDE COST OF WORK REQUIRED TO ACCOMMODATE ALL EXISTING CONDITIONS IN THE BID PROPOSAL.
- REMOVE ALL ELECTRICAL DEVICES AS NOTED.
- ALL SALVAGEABLE EQUIPMENT REMOVED SHALL BECOME PROPERTY OF OWNER AND SHALL BE STORED ON SITE AS DIRECTED. ALL NON-SALVAGEABLE MATERIALS SHALL BE REMOVED IN ITS ENTIRETY FROM SITE AND DISPOSED OF BY ELECTRICAL CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE LAWS.
- WHERE REMOVAL OR RELOCATION OF EXISTING CONDUIT PASSES THROUGH WALLS, OPENINGS SHALL BE PATCHED, SEALED, AND PAINTED TO MATCH THE SURROUNDING WALL. WHERE REMOVAL OR RELOCATION OF EXISTING CONDUIT PASSES THROUGH FLOOR, OPENINGS SHALL BE PATCHED AND SEALED TO MATCH SURROUNDING FLOOR. CONSULT ARCHITECT ON LOCATIONS AND MATERIALS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL SEAL ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED PARTITIONS, INCLUDING THOSE LEFT DUE TO REMOVAL OF DEVICES OR CONDUIT DURING DEMOLITION, WITH FIRE RATED MATERIAL EQUAL TO DOW CORNING SILICONE RTV FOAM AS A MINIMUM. MATERIAL SELECTION SHALL BE BASED ON RATING OF PARTITION PENETRATED.
- FURNISH AND INSTALL KNOCKOUT COVERS OR PLUGS ON ALL EXISTING PANELS, EQUIPMENT, AND OUTLET BOX OPENINGS CREATED BY REMOVAL OR RELOCATION OF EXISTING RACEWAYS.
- EXTEND/REROUTE WIRING AND CONDUIT, AS REQUIRED, TO ALL ELECTRICAL DEVICES RELOCATED DURING DEMOLITION UNLESS SPECIFICALLY NOTED OTHERWISE.
- COORDINATE POWER SHUTDOWN REQUIREMENTS WITH OWNER A MINIMUM OF 7 DAYS IN ADVANCE OF PLANNED SHUTDOWN. DO NOT PROCEED WITH SHUTDOWN WITHOUT WRITTEN AUTHORIZATION TO PROCEED.

DEMOLITION POWER PLAN KEY NOTES

(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- ALL EXISTING POWER, LIGHTING & FIRE ALARM DEVICES TO REMAIN. COORDINATE MECHANICAL AND PLUMBING EQUIPMENT DEMOLITION REQUIREMENTS WITH MECHANICAL AND PLUMBING DEMOLITION DRAWINGS.
- EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY.
- EXISTING MECHANICAL EQUIPMENT TO REMAIN.
- EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
- EXISTING UTILITY METER TO REMAIN.
- EXISTING SINGLE PHASE TRANSFORMER TO BE DEMOLISHED. DISCONNECT AND REMOVE ALL ELECTRICAL CONDUITS, WIRES AND ACCESSORIES ASSOCIATED WITH THE EQUIPMENT BACK TO ORIGINAL SOURCE OF SUPPLY. COORDINATE PHASING WITH PHASING NOTES ON SHEET E601.





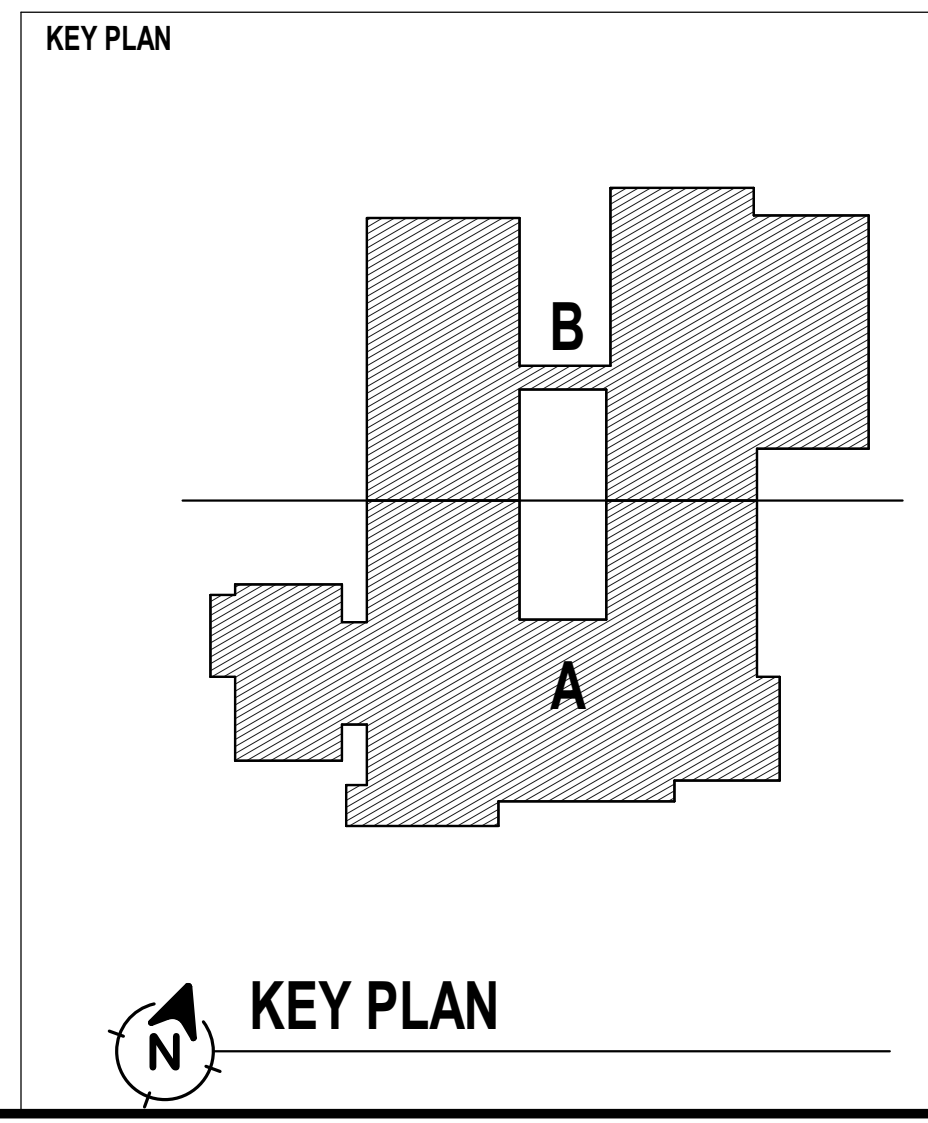
1 OVERALL FIRST FLOOR ELECTRICAL PLAN
1/16" = 1'-0"

POWER PLAN GENERAL NOTES

1. ALL INSTALLATIONS SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES.
2. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE SUITABLE FOR ITS APPLICATION PER THE LISTING INSTRUCTIONS OF A NATIONALLY RECOGNIZED AND APPROVED TESTING LABORATORY.
3. ACCESS TO & CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL CONFORM TO NEC ARTICLE 110. CONSULT ENGINEER WHERE SPACE APPEARS INADEQUATE DUE TO ARCHITECTURAL CHANGES, EQUIPMENT LAYOUT CHANGES, OR FIELD CONDITIONS. DO NOT COVER, OBSCURE OR BLOCK ACCESS TO EQUIPMENT, DATA PLATES, ACCESS PANELS OR MAINTENANCE AREAS WITH THE ELECTRICAL WORK.
4. THIS DRAWING SHOWS EQUIPMENT LOCATIONS ONLY. WIRING SHOWN IS SCHEMATIC IN NATURE. REFER TO RISERS, & DETAILS FOR ALL REQUIRED POWER & CONTROL WIRING. COORDINATE CONDUIT ROUTE IN FIELD WITH OTHER TRADES. EQUIPMENT & OWNER. VERIFY ALL MOUNTING HEIGHTS WITH OWNER & ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
5. UNLESS NOTED OTHERWISE, MINIMUM POWER WIRING SHALL BE 2#12 & 1#12 GND IN 3/4" TO 20A-1P CIRCUIT BREAKER IN PANEL LISTED. MINIMUM CONTROL WIRING SHALL BE 2#14 IN 3/4". ALL POWER WIRING OF CIRCUIT SHALL MATCH HOMERUN WIRING OF CIRCUIT.

POWER PLAN KEY NOTES

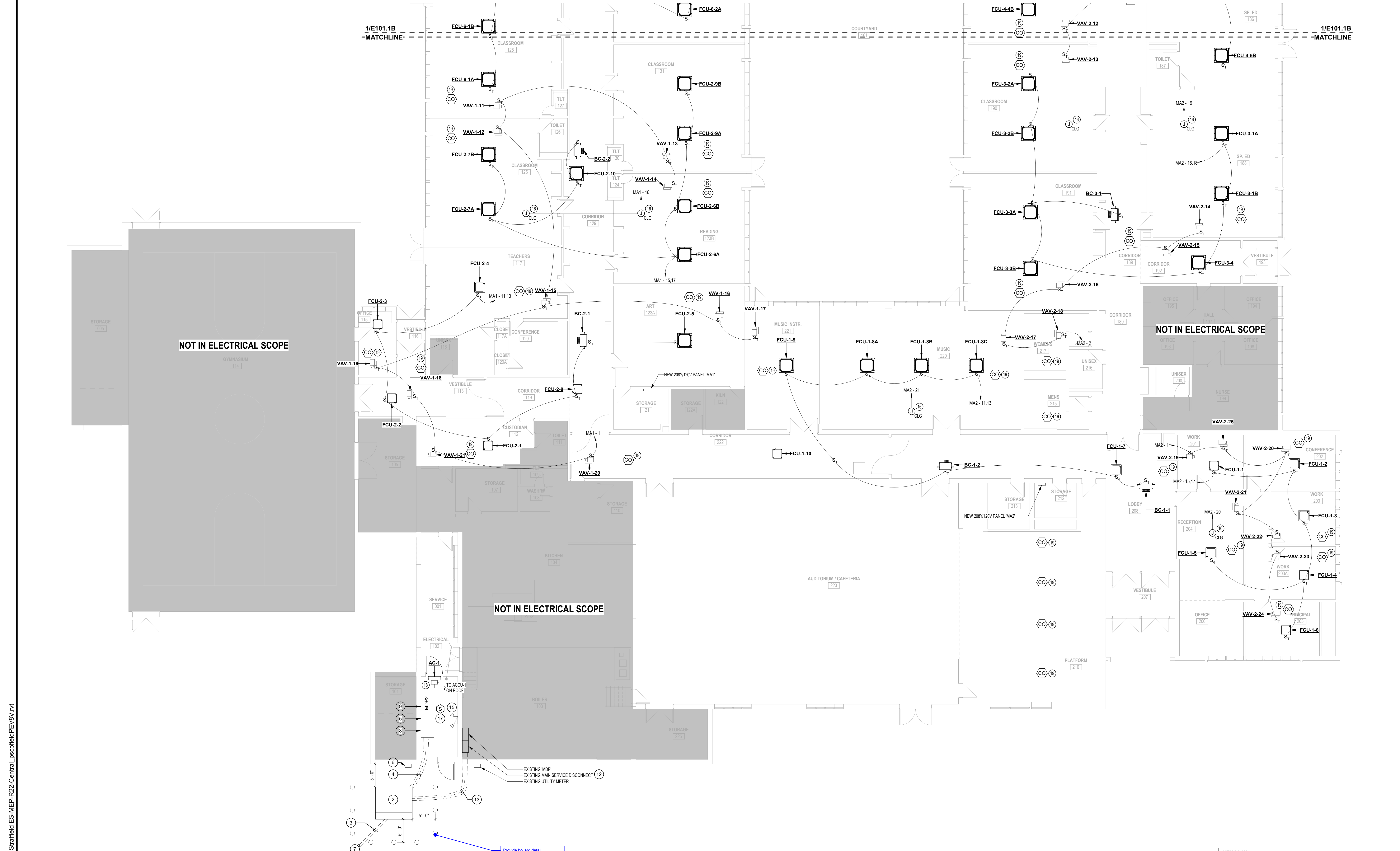
- (ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)
- 1 NOT IN ELECTRICAL SCOPE.



NO	DATE	DESCRIPTION

Designed:	DB
Drawn:	PS
Reviewed:	DB
Project No.:	2303053
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	OVERALL FIRST FLOOR ELECTRICAL PLAN
Sheet No.:	

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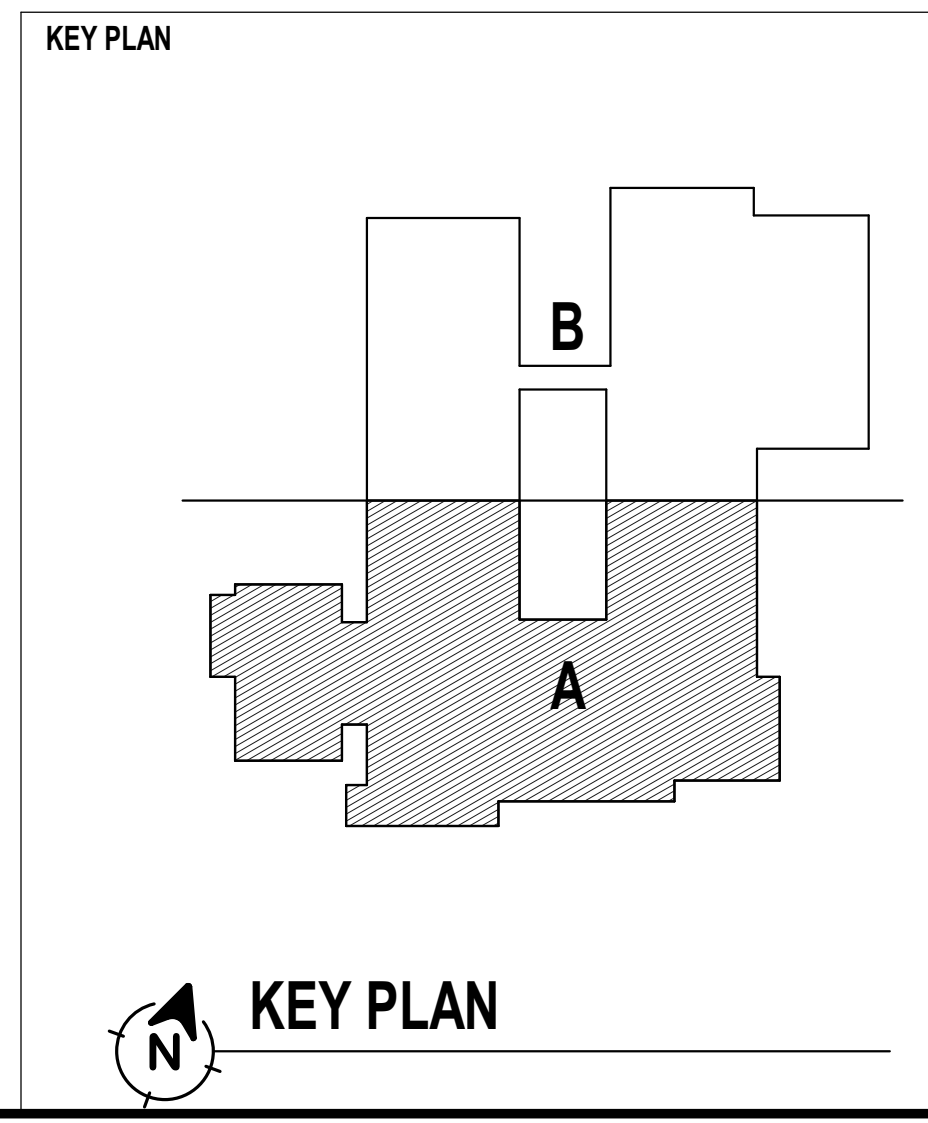
1 PARTIAL FIRST FLOOR ELECTRICAL PLANS - AREA A
1/8" = 1'-0"

POWER PLAN GENERAL NOTES

- ALL INSTALLATIONS SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE SUITABLE FOR ITS APPLICATION PER THE LISTING INSTRUCTIONS OF A NATIONALLY RECOGNIZED AND APPROVED TESTING LABORATORY.
- ACCESS TO & CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL CONFORM TO NEC ARTICLE 110. CONSULT ENGINEER WHERE SPACE APPEARS INADEQUATE DUE TO ARCHITECTURAL CHANGES, EQUIPMENT LAYOUT CHANGES, OR FIELD CONDITIONS. DO NOT COVER, OBSCURE OR BLOCK ACCESS TO EQUIPMENT, DATA PLATES, ACCESS PANELS OR MAINTENANCE AREAS WITH THE ELECTRICAL WORK.
- THIS DRAWING SHOWS EQUIPMENT LOCATIONS ONLY. WIRING SHOWN IS SCHEMATIC IN NATURE. REFER TO RISERS & DETAILS FOR ALL REQUIRED POWER & CONTROL WIRING. COORDINATE CONDUIT ROUTE IN FIELD WITH OTHER TRADES, EQUIPMENT & OWNER. VERIFY ALL MOUNTING HEIGHTS WITH OWNER & ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
- UNLESS NOTED OTHERWISE, MINIMUM POWER WIRING SHALL BE 2#12 & 1#12 GND IN 3/4" TO 20A 1P CIRCUIT BREAKER IN PANEL LISTED. MINIMUM CONTROL WIRING SHALL BE 2#14 IN 3/4". ALL POWER WIRING OF CIRCUIT SHALL MATCH HOMERUN WIRING OF CIRCUIT.
- REFER TO MECHANICAL EQUIPMENT FEEDER SCHEDULE FOR BRANCH CIRCUIT INFORMATION OF MECHANICAL AND PLUMBING EQUIPMENT.
- REVIEW DRAWINGS TO COORDINATE POWER REQUIREMENTS AND LOCATIONS FOR ALL EQUIPMENT SPECIFIED BY OTHER TRADES INVOLVED IN THE PROJECT. PROVIDE ALL THE ELECTRICAL, POWER CIRCUITS, INTERCONNECTING POWER WIRING AND CONDUIT, CONTROL WIRING, NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
- COORDINATE ELECTRICAL REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT WITH ACTUAL EQUIPMENT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH SITE SPECIFIC LOCAL REQUIREMENTS FOR SEISMIC BRACING OF ELECTRICAL EQUIPMENT AND CONDUITS.
- CONTRACTOR SHALL CLEARLY LABEL ALL ELECTRICAL EQUIPMENT AND DEVICES WITH ASSOCIATED PANEL NAME AND CIRCUIT BREAKER.

POWER PLAN KEY NOTES

- (ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)
- EXISTING TRANSFORMER TO BE REMOVED.
 - NEW UTILITY PAD-MOUNTED TRANSFORMER (BY UTILITY COMPANY), TRANSFORMER PAD (BY ELECTRICAL CONTRACTOR), FURNISH AND INSTALL TRANSFORMER PAD AND PROTECTIVE BOLLARDS PER LOCAL UTILITY COMPANY REQUIREMENTS. COORDINATE EXACT TRANSFORMER LOCATION WITH ELECTRIC UTILITY & CONSTRUCTION MANAGER. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW UNDERGROUND UTILITY COMPANY PRIMARY SERVICE CONDUITS. COORDINATE PRIMARY CONDUITS INSTALLATION & ROUTING WITH ELECTRIC UTILITY. INSTALLATION SHALL BE IN ACCORDANCE WITH THE ELECTRIC UTILITY REQUIREMENTS. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW SECONDARY SERVICE CONDUITS. COORDINATE INSTALLATION OF SECONDARY CONDUITS WITH THE UTILITY COMPANY. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW UTILITY COMPANY METERING COMPARTMENT SECTION (PER UTILITY COMPANY REQUIREMENTS). COORDINATE HOT OR COLD SEQUENCE WITH LOCAL UTILITY.
 - NEW UTILITY COMPANY METER, COORDINATE METER LOCATION AND INSTALL METER SOCKET AND WIRING PER UTILITY COMPANY REQUIREMENTS.
 - COORDINATE PRIMARY POWER FEEDER CONNECTION LOCATION WITH LOCAL UTILITY COMPANY TO NEW PAD MOUNTED SWITCHGEAR. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW SWITCHBOARD MAIN DISCONNECT SWITCH MDPZ 2000A MCB, 208Y120V, 3PH, 4W, NEMA 3R. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW MAIN DISTRIBUTION PANEL 2000A MLO, 208Y120V, 3PH, 4W, NEMA 3R. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - PROVIDE WEATHERPROOF RECEPTACLE. FIELD COORDINATE CONDUIT ROUTING TO DESIGNATED PANELBOARD.
 - PROVIDE RIGID METALLIC CONDUITS (EXTERIOR ON WALL & ROOF), JUNCTION BOXES & UNISTRUT SUPPORTS AS NECESSARY. FIELD COORDINATE EXACT CONDUIT ROUTING & JUNCTION BOX LOCATIONS. PROVIDE ROOF BLOCKS (SUPPORTS) FOR CONDUIT TO BE STRAPPED TO EVERY 5 FEET. CONDUIT SHALL BE MOUNTED AT LEAST 7/8" ABOVE ROOF AT ALL TIMES.
 - EXISTING MAIN SERVICE DISCONNECT SWITCH TO BE BACKFED FROM NEW UTILITY TRANSFORMER. DISCONNECT AND REMOVE ALL EXISTING CONDUIT/WIRING AND PROVIDE NEW CONDUIT/WIRING. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW CONDUIT/WIRING & CONDUCTORS FED FROM NEW UTILITY TRANSFORMER. COORDINATE EXACT CONDUIT ROUTING. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - CONNECT NEW SMOKE DETECTOR TO EXISTING FIRE ALARM SYSTEM.
 - NEW WALL MOUNTED EMERGENCY BATTERY UNIT TO MATCH EXISTING FIXTURE MANUFACTURER. CONNECT TO NEAREST EXISTING EMERGENCY CIRCUIT.
 - PROVIDE 120V POWER TO JUNCTION BOX FOR ATC CONTROL. LOCATIONS TO BE CONFIRMED WITH ATC CONTRACTOR.
 - FIELD COORDINATE CONDUIT ROUTING. PROVIDE JUNCTION BOXES AND EXPANSION COUPLINGS/FITTINGS AS REQUIRED TO RUN UP & DOWN WALLS.
 - INDOOR UNIT ACQUIRES POWER FROM THE ASSOCIATED OUTDOOR CONDENSING UNIT. COORDINATE WITH MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE NEW CO DETECTOR WITHIN 5 FEET OF DIFFUSER. CONTRACTOR TO COORDINATE CONNECTION TO THE EXISTING FIRE ALARM SYSTEM.
 - MAP A UTILITY PEDESTAL #MPX-28-CJ-S-36'S WEATHERPROOF GFCI DUPLEX RECEPTACLE WITH WORK LIGHT AND SWITCH MOUNTED ON PEDESTAL FOR ROOF EQUIPMENT MAINTENANCE. COORDINATE WITH ROOF INSTALLATION TO PROVIDE WEATHERPROOFING. REFER TO DETAIL FOR ADDITIONAL INFORMATION.



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1 OVERALL ROOF ELECTRICAL PLAN
1/16" = 1'-0"

POWER PLAN GENERAL NOTES

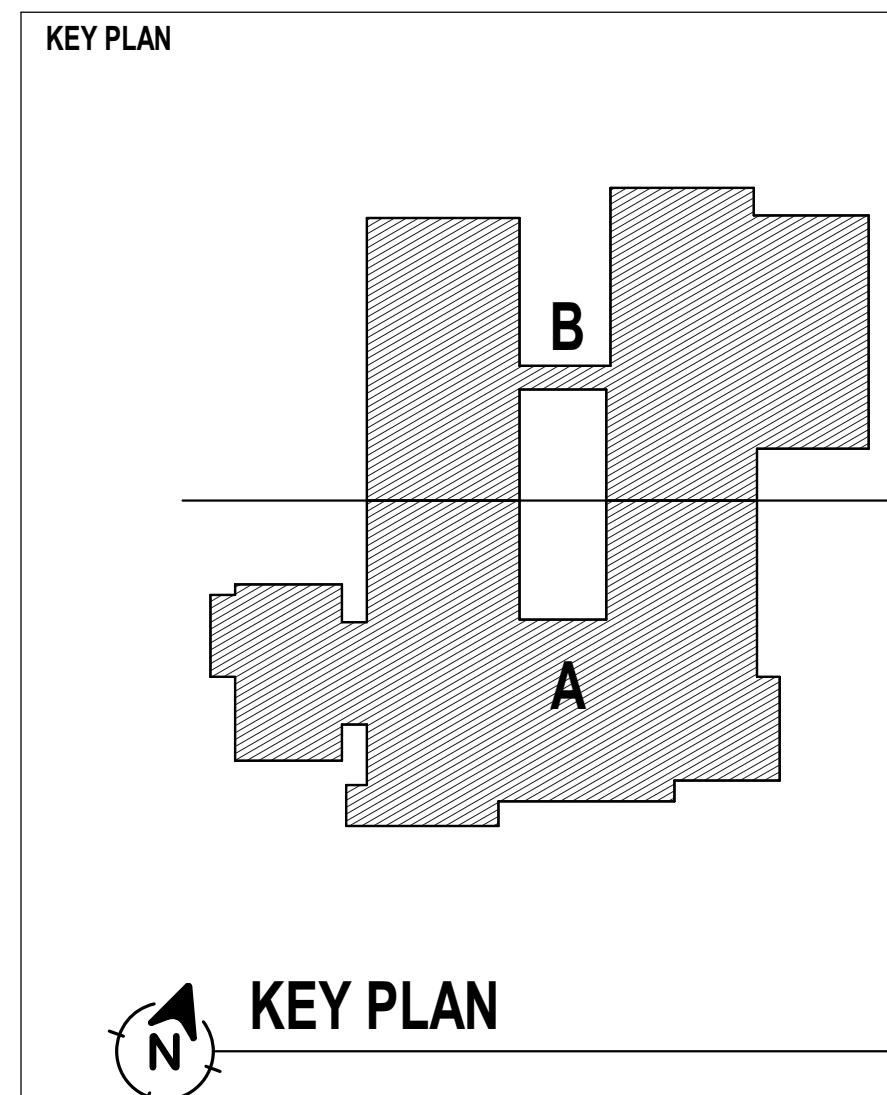
- ALL INSTALLATIONS SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE SUITABLE FOR ITS APPLICATION PER THE LISTING INSTRUCTIONS OF A NATIONALLY RECOGNIZED AND APPROVED TESTING LABORATORY.
- ACCESS TO & CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL CONFORM TO NEC ARTICLE 110. CONSULT ENGINEER WHERE SPACE APPEARS INADEQUATE DUE TO ARCHITECTURAL CHANGES, EQUIPMENT LAYOUT CHANGES, OR FIELD CONDITIONS. DO NOT COVER, OBSCURE OR BLOCK ACCESS TO EQUIPMENT, DATA PLATES, ACCESS PANELS OR MAINTENANCE AREAS WITH THE ELECTRICAL WORK.
- THIS DRAWING SHOWS EQUIPMENT LOCATIONS ONLY. WIRING SHOWN IS SCHEMATIC IN NATURE. REFER TO RISERS, & DETAILS FOR ALL REQUIRED POWER & CONTROL WIRING. COORDINATE CONDUIT ROUTE IN FIELD WITH OTHER TRADES. EQUIPMENT & OWNER. VERIFY ALL MOUNTING HEIGHTS WITH OWNER & ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
- UNLESS NOTED OTHERWISE, MINIMUM POWER WIRING SHALL BE 2#12 & 1#12 GND IN 3/4" TO 20A-1P CIRCUIT BREAKER IN PANEL LISTED. MINIMUM CONTROL WIRING SHALL BE 2#14 IN 3/4". ALL POWER WIRING OF CIRCUIT SHALL MATCH HOMERUN WIRING OF CIRCUIT.

- REFER TO MECHANICAL EQUIPMENT FEEDER SCHEDULE FOR BRANCH CIRCUIT INFORMATION OF MECHANICAL AND PLUMBING EQUIPMENT.
- REVIEW DRAWINGS TO COORDINATE POWER REQUIREMENTS AND LOCATIONS FOR ALL EQUIPMENT SPECIFIED BY OTHER TRADES INVOLVED IN THE PROJECT. PROVIDE ALL THE ELECTRICAL POWER CIRCUITS, INTERCONNECTING POWER WIRING AND CONDUIT, CONTROL WIRING, NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
- COORDINATE ELECTRICAL REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT WITH ACTUAL EQUIPMENT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH SITE SPECIFIC LOCAL REQUIREMENTS FOR SEISMIC BRACING OF ELECTRICAL EQUIPMENT AND CONDUITS.
- CONTRACTOR SHALL CLEARLY LABEL ALL ELECTRICAL EQUIPMENT AND DEVICES WITH ASSOCIATED PANEL NAME AND CIRCUIT BREAKER.

POWER PLAN KEY NOTES

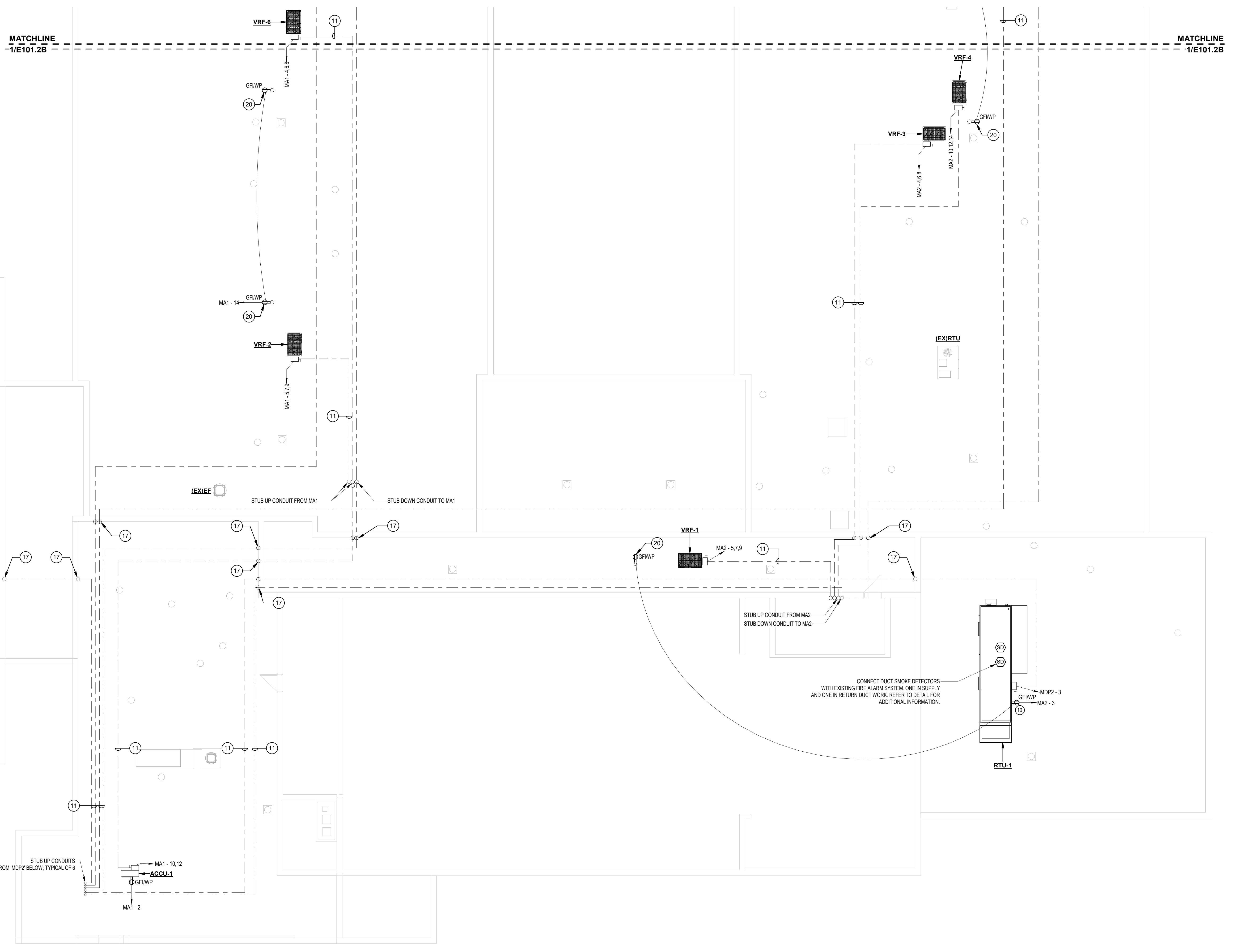
(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

- EXISTING TRANSFORMER TO BE REMOVED.
- NEW UTILITY PAD-MOUNTED TRANSFORMER (BY UTILITY COMPANY), TRANSFORMER PAD (BY ELECTRICAL CONTRACTOR), FURNISH AND INSTALL TRANSFORMER PAD AND PROTECTIVE BOLLARDS PER LOCAL UTILITY COMPANY REQUIREMENTS. COORDINATE EXACT TRANSFORMER LOCATION WITH ELECTRIC UTILITY & CONSTRUCTION MANAGER. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW UNDERGROUND UTILITY COMPANY PRIMARY SERVICE CONDUITS. COORDINATE PRIMARY CONDUITS INSTALLATION & ROUTING WITH ELECTRIC UTILITY. INSTALLATION SHALL BE IN ACCORDANCE WITH THE ELECTRIC UTILITY REQUIREMENTS. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW SECONDARY SERVICE CONDUITS. COORDINATE INSTALLATION OF SECONDARY CONDUITS WITH THE UTILITY COMPANY. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW UTILITY COMPANY METERING COMPARTMENT SECTION (PER UTILITY COMPANY REQUIREMENTS). COORDINATE HOT OR COLD SEQUENCE WITH LOCAL UTILITY.
- NEW UTILITY COMPANY METER, COORDINATE METER LOCATION AND INSTALL METER SOCKET AND WIRING PER UTILITY COMPANY REQUIREMENTS.
- COORDINATE PRIMARY POWER FEEDER CONNECTION LOCATION WITH LOCAL UTILITY COMPANY TO NEW PAD MOUNTED SWITCHGEAR. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW SWITCHBOARD MAIN DISCONNECT SWITCH 1200A MCB, 208Y/120V, 3PH, 4W, NEMA 3R. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW MAIN DISTRIBUTION PANEL 2000A MLD, 208Y/120V, 3PH, 4W, NEMA 3R. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDE WEATHERPROOF RECEPTACLE. FIELD COORDINATE CONDUIT ROUTING TO DESIGNATED PANELBOARD.
- PROVIDE RIGID METALLIC CONDUITS (EXTERIOR ON WALL & ROOF), JUNCTION BOXES & UNISTRUT SUPPORTS AS NECESSARY. FIELD COORDINATE EXACT CONDUIT ROUTING & JUNCTION BOX LOCATIONS. PROVIDE ROOF BLOCKS (SUPPORTS) FOR CONDUIT TO BE STRAPPED TO EVERY 5 FEET. CONDUIT SHALL BE MOUNTED AT LEAST 7/8" ABOVE ROOF AT ALL TIMES.
- EXISTING MAIN SERVICE DISCONNECT SWITCH TO BE BACKFED FROM NEW UTILITY TRANSFORMER. DISCONNECT AND REMOVE ALL EXISTING CONDUIT/WIRING AND PROVIDE NEW CONDUIT/WIRING. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW CONDUIT/WIRING & CONDUCTORS FED FROM NEW UTILITY TRANSFORMER. COORDINATE EXACT CONDUIT ROUTING. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- CONNECT NEW SMOKE DETECTOR TO EXISTING FIRE ALARM SYSTEM.
- NEW WALL MOUNTED EMERGENCY BATTERY UNIT TO MATCH EXISTING FIXTURE MANUFACTURER. CONNECT TO NEAREST EXISTING EMERGENCY CIRCUIT.
- PROVIDE 120V POWER TO JUNCTION BOX FOR ATC CONTROL. LOCATIONS TO BE CONFIRMED WITH ATC CONTRACTOR.
- FIELD COORDINATE CONDUIT ROUTING. PROVIDE JUNCTION BOXES AND EXPANSION COUPLINGS/FITTINGS AS REQUIRED TO RUN UP & DOWN WALLS.
- INDOOR UNIT ACQUIRES POWER FROM THE ASSOCIATED OUTDOOR CONDENSING UNIT. COORDINATE WITH MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW CO DETECTOR WITHIN 5 FEET OF DIFFUSER. CONTRACTOR TO COORDINATE CONNECTION TO THE EXISTING FIRE ALARM SYSTEM.
- MAPA UTILITY PEDESTAL #MPX-20-G-L-S-36/12 WEATHERPROOF, GFCI DUPLEX RECEPTACLE WITH WORK LIGHT AND SWITCH MOUNTED ON PEDESTAL FOR ROOF EQUIPMENT MAINTENANCE. COORDINATE WITH ROOF INSTALLATION TO PROVIDE WEATHERPROOFING. REFER TO DETAIL FOR ADDITIONAL INFORMATION.



NO	DATE	DESCRIPTION

Designed:	DB
Drawn:	PS
Reviewed:	DB
Project No.:	2303053
Date:	09/29/2023
Issued for:	95% CONSTRUCTION DOCUMENTS
Title:	OVERALL ROOF ELECTRICAL PLAN
Sheet No.:	E101.2



1 PARTIAL ROOF ELECTRICAL PLANS - AREA A

1/8" = 1'-0"
POWER PLAN GENERAL NOTES

- ALL INSTALLATIONS SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE SUITABLE FOR ITS APPLICATION PER THE LISTING INSTRUCTIONS OF A NATIONALLY RECOGNIZED AND APPROVED TESTING LABORATORY.
- ACCESS TO & CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL CONFORM TO NEC ARTICLE 110. CONSULT ENGINEER WHERE SPACE APPEARS INADEQUATE DUE TO ARCHITECTURAL CHANGES, EQUIPMENT LAYOUT CHANGES, OR FIELD CONDITIONS. DO NOT COVER, OBSCURE OR BLOCK ACCESS TO EQUIPMENT, DATA PLATES, ACCESS PANELS OR MAINTENANCE AREAS WITH THE ELECTRICAL WORK.
- THIS DRAWING SHOWS EQUIPMENT LOCATIONS ONLY. WIRING SHOWN IS SCHEMATIC IN NATURE. REFER TO RISERS & DETAILS FOR ALL REQUIRED POWER & CONTROL WIRING. COORDINATE CONDUIT ROUTE IN FIELD WITH OTHER TRADES, EQUIPMENT & OWNER. VERIFY ALL MOUNTING HEIGHTS WITH OWNER & ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
- UNLESS NOTED OTHERWISE, MINIMUM POWER WIRING SHALL BE 2-#12 & 1-#12 GND IN 3/4" TO 20-1/2" CIRCUIT BREAKER IN PANEL LISTED. MINIMUM CONTROL WIRING SHALL BE 2-#14 IN 3/4". ALL POWER WIRING OF CIRCUIT SHALL MATCH HOMERUN WIRING OF CIRCUIT.
- REFER TO MECHANICAL EQUIPMENT FEEDER SCHEDULE FOR BRANCH CIRCUIT INFORMATION OF MECHANICAL AND PLUMBING EQUIPMENT.
- REVIEW DRAWINGS TO COORDINATE POWER REQUIREMENTS AND LOCATIONS FOR ALL EQUIPMENT SPECIFIED BY OTHER TRADES INVOLVED IN THE PROJECT. PROVIDE ALL THE ELECTRICAL POWER CIRCUITS, INTERCONNECTING POWER WIRING AND CONDUIT, CONTROL WIRING, NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
- COORDINATE ELECTRICAL REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT WITH ACTUAL EQUIPMENT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH SITE SPECIFIC LOCAL REQUIREMENTS FOR SEISMIC BRACING OF ELECTRICAL EQUIPMENT AND CONDUITS.
- CONTRACTOR SHALL CLEARLY LABEL ALL ELECTRICAL EQUIPMENT AND DEVICES WITH ASSOCIATED PANEL NAME AND CIRCUIT BREAKER.

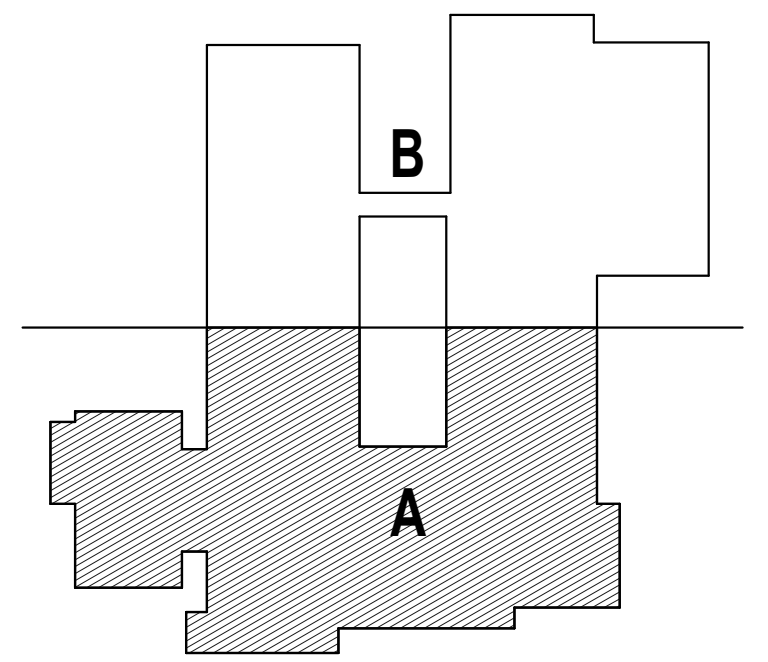
POWER PLAN KEY NOTES

(ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)

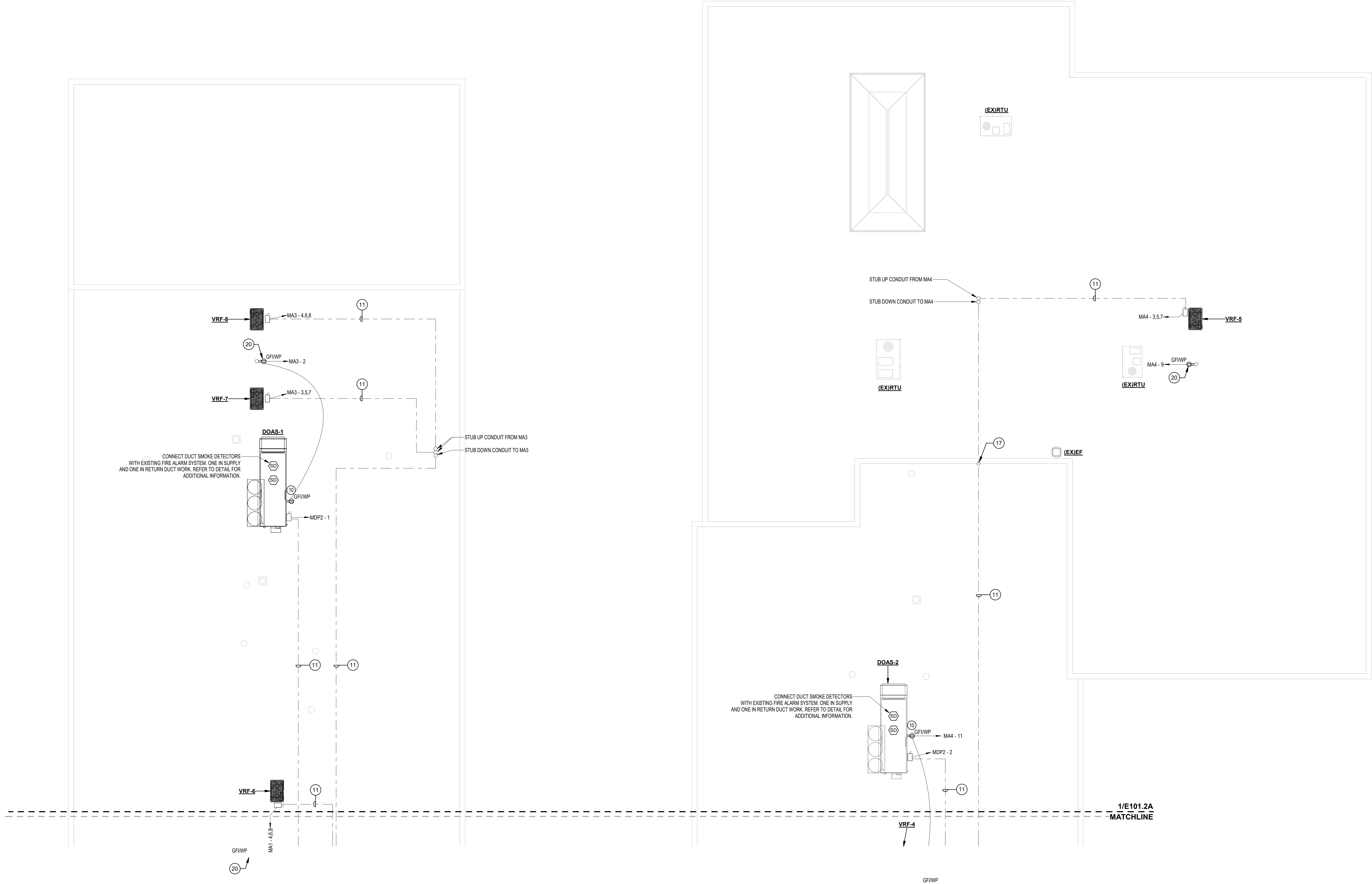
- EXISTING TRANSFORMER TO BE REMOVED.
- NEW UTILITY PAD-MOUNTED TRANSFORMER (BY UTILITY COMPANY); TRANSFORMER PAD (BY ELECTRICAL CONTRACTOR); FURNISH AND INSTALL TRANSFORMER PAD AND PROTECTIVE BOLLARDS PER LOCAL UTILITY COMPANY REQUIREMENTS. COORDINATE EXACT TRANSFORMER LOCATION WITH ELECTRIC UTILITY & CONSTRUCTION MANAGER. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW UNDERGROUND UTILITY COMPANY PRIMARY SERVICE CONDUITS. COORDINATE PRIMARY CONDUITS INSTALLATION & ROUTING WITH ELECTRIC UTILITY. INSTALLATION SHALL BE IN ACCORDANCE WITH THE ELECTRIC UTILITY REQUIREMENTS. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW SECONDARY SERVICE CONDUITS. COORDINATE INSTALLATION OF SECONDARY CONDUITS WITH THE UTILITY COMPANY. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW UTILITY COMPANY METERING COMPARTMENT SECTION (PER UTILITY COMPANY REQUIREMENTS). COORDINATE HOT OR COLD SEQUENCE WITH LOCAL UTILITY.
- NEW UTILITY COMPANY METER. COORDINATE METER LOCATION AND INSTALL METER SOCKET AND WIRING PER UTILITY COMPANY REQUIREMENTS.
- COORDINATE PRIMARY POWER FEEDER CONNECTION LOCATION WITH LOCAL UTILITY COMPANY TO NEW PAD MOUNTED SWITCHGEAR. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW SWITCHBOARD MAIN DISCONNECT SWITCH MDP2 2000A MCB, 208Y120V, 3PH, 4W, NEMA 3R. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW MAIN DISTRIBUTION PANEL 2000A MLO, 208Y120V, 3PH, 4W, NEMA 3R. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDE WEATHERPROOF RECEPTACLE. FIELD COORDINATE CONDUIT ROUTING TO DESIGNATED PANELBOARD.
- PROVIDE RIGID METALLIC CONDUITS (EXTERIOR ON WALL & ROOF), JUNCTION BOXES & UNISTRUT SUPPORTS AS NECESSARY. FIELD COORDINATE EXACT CONDUIT ROUTING & JUNCTION BOX LOCATIONS. PROVIDE ROOF BLOCKS (SUPPORTS) FOR CONDUIT TO BE STRAPPED TO EVERY 5 FEET. CONDUIT SHALL BE MOUNTED AT LEAST 7/8" ABOVE ROOF AT ALL TIMES.
- EXISTING MAIN SERVICE DISCONNECT SWITCH TO BE BACKFED FROM NEW UTILITY TRANSFORMER. DISCONNECT AND REMOVE ALL EXISTING CONDUIT WIRING AND PROVIDE NEW CONDUIT WIRING. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW CONDUIT WIRING & CONDUCTORS FED FROM NEW UTILITY TRANSFORMER. COORDINATE EXACT CONDUIT ROUTING. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- CONNECT NEW SMOKE DETECTOR TO EXISTING FIRE ALARM SYSTEM.
- NEW WALL MOUNTED EMERGENCY BATTERY UNIT TO MATCH EXISTING FIXTURE MANUFACTURER. CONNECT TO NEAREST EXISTING EMERGENCY CIRCUIT.
- PROVIDE 120V POWER TO JUNCTION BOX FOR ATC CONTROL. LOCATIONS TO BE CONFIRMED WITH ATC CONTRACTOR.
- FIELD COORDINATE CONDUIT ROUTING. PROVIDE JUNCTION BOXES AND EXPANSION COUPLINGS/FITTINGS AS REQUIRED TO RUN UP & DOWN WALLS.
- INDOOR UNIT ACQUIRES POWER FROM THE ASSOCIATED OUTDOOR CONDENSING UNIT. COORDINATE WITH MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW CO DETECTOR WITHIN 5 FEET OF DIFFUSER. CONTRACTOR TO COORDINATE CONNECTION TO THE EXISTING FIRE ALARM SYSTEM.
- MAPA UTILITY PEDESTAL. 8MPX20-G-L-S-3612 WEATHERPROOF. GFCI DUPLEX RECEPTACLE WITH WORK LIGHT AND SWITCH MOUNTED ON PEDESTAL FOR ROOF EQUIPMENT MAINTENANCE. COORDINATE WITH ROOF INSTALLATION TO PROVIDE WEATHERPROOFING. REFER TO DETAIL FOR ADDITIONAL INFORMATION.

CONTRACTOR SHALL COORDINATE CONDUIT WIRING ROUTING OF NEW PANELBOARDS & HVAC EQUIPMENT FEEDERS WITH EXISTING AND NEW CONDITIONS INCLUDING BUT NOT LIMITED TO MECHANICAL EQUIPMENT AND DUCTWORK, SKY LIGHTS, SPRINKLER PIPING, DOMESTIC WATER PIPING, STORM WATER PIPING, STRUCTURE JOISTS ETC. PATHWAY SHALL BE DETERMINED PRIOR TO BIDDING. IF PROPOSED PATHWAY DOES NOT MATCH PATHWAY SHOWN, CONTRACTOR SHALL ADAPT PATHWAY AS NEEDED AT NO EXTRA COST TO PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ROOF MOUNTED CONDUIT SYSTEMS (IE BLOCKS OR OTHER ENGINEER APPROVED METHOD).

KEY PLAN



KEY PLAN



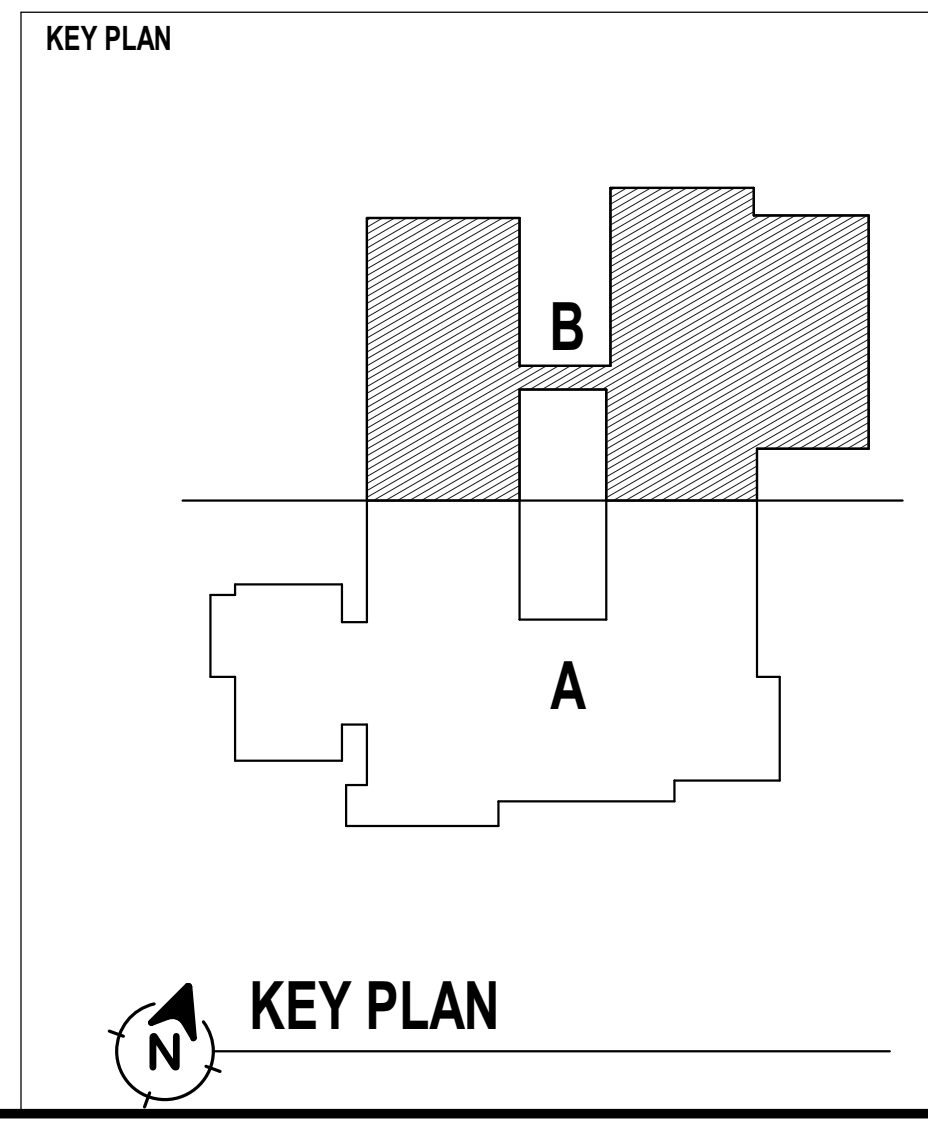
1 PARTIAL ROOF ELECTRICAL PLANS - AREA B

POWER PLAN GENERAL NOTES

- ALL INSTALLATIONS SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE SUITABLE FOR ITS APPLICATION PER THE LISTING INSTRUCTIONS OF A NATIONALLY RECOGNIZED AND APPROVED TESTING LABORATORY.
- ACCESS TO & CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL CONFORM TO NEC ARTICLE 110. CONSULT ENGINEER WHERE SPACE APPEARS INADEQUATE DUE TO ARCHITECTURAL CHANGES, EQUIPMENT LAYOUT CHANGES, OR FIELD CONDITIONS. DO NOT COVER, OBSCURE OR BLOCK ACCESS TO EQUIPMENT DATA PLATES, ACCESS PANELS OR MAINTENANCE AREAS WITH THE ELECTRICAL WORK.
- THIS DRAWING SHOWS EQUIPMENT LOCATIONS ONLY. WIRING SHOWN IS SCHEMATIC IN NATURE. REFER TO RISERS, & DETAILS FOR ALL REQUIRED POWER & CONTROL WIRING. COORDINATE CONDUIT ROUTE IN FIELD WITH OTHER TRADES, EQUIPMENT & OWNER. VERIFY ALL MOUNTING HEIGHTS WITH OWNER & ARCHITECTURAL PLANS PRIOR TO INSTALLATION.
- UNLESS NOTED OTHERWISE, MINIMUM POWER WIRING SHALL BE 2#12 & 1#12 GND IN 3/4" TO 20A-1P CIRCUIT BREAKER IN PANEL LISTED. MINIMUM CONTROL WIRING SHALL BE 2#14 IN 3/4". ALL POWER WIRING OF CIRCUIT SHALL MATCH HOMERUN WIRING OF CIRCUIT.
- REFER TO MECHANICAL EQUIPMENT FEEDER SCHEDULE FOR BRANCH CIRCUIT INFORMATION OF MECHANICAL AND PLUMBING EQUIPMENT.
- REVIEW DRAWINGS TO COORDINATE POWER REQUIREMENTS AND LOCATIONS FOR ALL EQUIPMENT SPECIFIED BY OTHER TRADES INVOLVED IN THE PROJECT. PROVIDE ALL THE ELECTRICAL POWER CIRCUITS, INTERCONNECTING POWER WIRING AND CONDUIT, CONTROL WIRING, NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
- COORDINATE ELECTRICAL REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT WITH ACTUAL EQUIPMENT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH SITE SPECIFIC LOCAL REQUIREMENTS FOR SEISMIC BRACING OF ELECTRICAL EQUIPMENT AND CONDUITS.
- CONTRACTOR SHALL CLEARLY LABEL ALL ELECTRICAL EQUIPMENT AND DEVICES WITH ASSOCIATED PANEL NAME AND CIRCUIT BREAKER.

POWER PLAN KEY NOTES

- (ALL KEY NOTES MAY NOT BE INDICATED ON FLOOR PLAN)
- EXISTING TRANSFORMER TO BE REMOVED.
 - NEW UTILITY PAD-MOUNTED TRANSFORMER (BY UTILITY COMPANY), TRANSFORMER PAD (BY ELECTRICAL CONTRACTOR), FURNISH AND INSTALL TRANSFORMER PAD AND PROTECTIVE BOLLARDS PER LOCAL UTILITY COMPANY REQUIREMENTS. COORDINATE EXACT TRANSFORMER LOCATION WITH ELECTRIC UTILITY & CONSTRUCTION MANAGER. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW UNDERGROUND UTILITY COMPANY PRIMARY SERVICE CONDUITS. COORDINATE PRIMARY CONDUITS INSTALLATION & ROUTING WITH ELECTRIC UTILITY. INSTALLATION SHALL BE IN ACCORDANCE WITH THE ELECTRIC UTILITY REQUIREMENTS. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW SECONDARY SERVICE CONDUITS. COORDINATE INSTALLATION OF SECONDARY CONDUITS WITH THE UTILITY COMPANY. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW UTILITY COMPANY METERING COMPARTMENT SECTION, PER UTILITY COMPANY REQUIREMENTS. COORDINATE HOT OR COLD SEQUENCE WITH LOCAL UTILITY.
 - NEW UTILITY COMPANY METER, COORDINATE METER LOCATION AND INSTALL METER SOCKET AND WIRING PER UTILITY COMPANY REQUIREMENTS.
 - COORDINATE PRIMARY POWER FEEDER CONNECTION LOCATION WITH LOCAL UTILITY COMPANY TO NEW PAD MOUNTED SWITCHGEAR. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW SWITCHBOARD MAIN DISCONNECT SWITCH MDP2 2000A MLO, 208Y120V, 3PH, 4W, NEMA 3R. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW MAIN DISTRIBUTION PANEL 2000A MLO, 208Y120V, 3PH, 4W, NEMA 3R. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
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 - EXISTING MAIN SERVICE DISCONNECT SWITCH TO BE BACKFED FROM NEW UTILITY TRANSFORMER. DISCONNECT AND REMOVE ALL EXISTING CONDUIT/WIRING AND PROVIDE NEW CONDUIT/WIRING. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - NEW CONDUIT/WIRING & CONDUCTORS FED FROM NEW UTILITY TRANSFORMER. COORDINATE EXACT CONDUIT ROUTING. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - CONNECT NEW SMOKE DETECTOR TO EXISTING FIRE ALARM SYSTEM.
 - NEW WALL MOUNTED EMERGENCY BATTERY UNIT TO MATCH EXISTING FIXTURE MANUFACTURER. CONNECT TO NEAREST EXISTING EMERGENCY CIRCUIT.
 - PROVIDE 120V POWER TO JUNCTION BOX FOR ATC CONTROL. LOCATIONS TO BE CONFIRMED WITH ATC CONTRACTOR.
 - FIELD COORDINATE CONDUIT ROUTING. PROVIDE JUNCTION BOXES AND EXPANSION COUPLINGS/FITTINGS AS REQUIRED TO RUN UP & DOWN WALLS.
 - INDOOR UNIT ACQUIRES POWER FROM THE ASSOCIATED OUTDOOR CONDENSING UNIT. COORDINATE WITH MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PROVIDE NEW CO DETECTOR WITHIN 5 FEET OF DIFFUSER. CONTRACTOR TO COORDINATE CONNECTION TO THE EXISTING FIRE ALARM SYSTEM.
 - CONTRACTOR SHALL COORDINATE CONDUIT/WIRING ROUTING OF NEW PANELBOARDS & HVAC EQUIPMENT FEEDERS WITH EXISTING AND NEW CONDITIONS INCLUDING BUT NOT LIMITED TO MECHANICAL EQUIPMENT AND DUCTWORK, SKY LIGHTS, SPRINKLER PIPING, DOMESTIC WATER PIPING, STORM WATER PIPING, STRUCTURE JOISTS ETC. PATHWAY SHALL BE DETERMINED PRIOR TO BIDDING. IF PROPOSED PATHWAY DOES NOT MATCH PATHWAY SHOWN, CONTRACTOR SHALL ADAPT PATHWAY AS NEEDED AT NO EXTRA COST TO PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ROOF MOUNTED CONDUIT SYSTEMS (IE BOLDS OR OTHER ENGINEER APPROVED METHOD). REFER TO DETAIL FOR ADDITIONAL INFORMATION.



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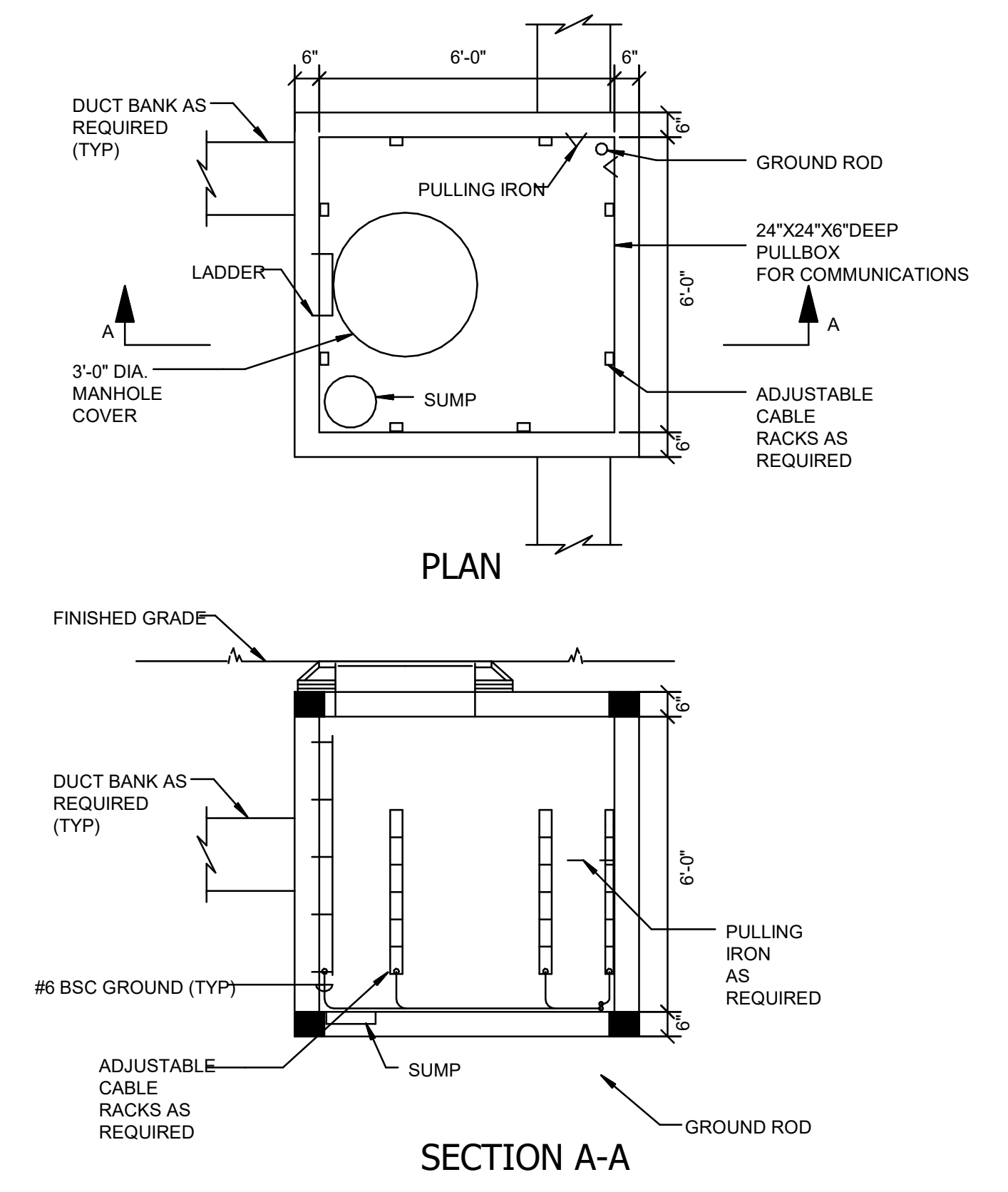
REVISIONS	NO	DATE	DESCRIPTION

Designed:	DB
Drawn:	PS
Reviewed:	DB
Project No.:	230105
Date:	09/20/2023
Issued for:	95% CONSTRUCTION DOCUMENTS

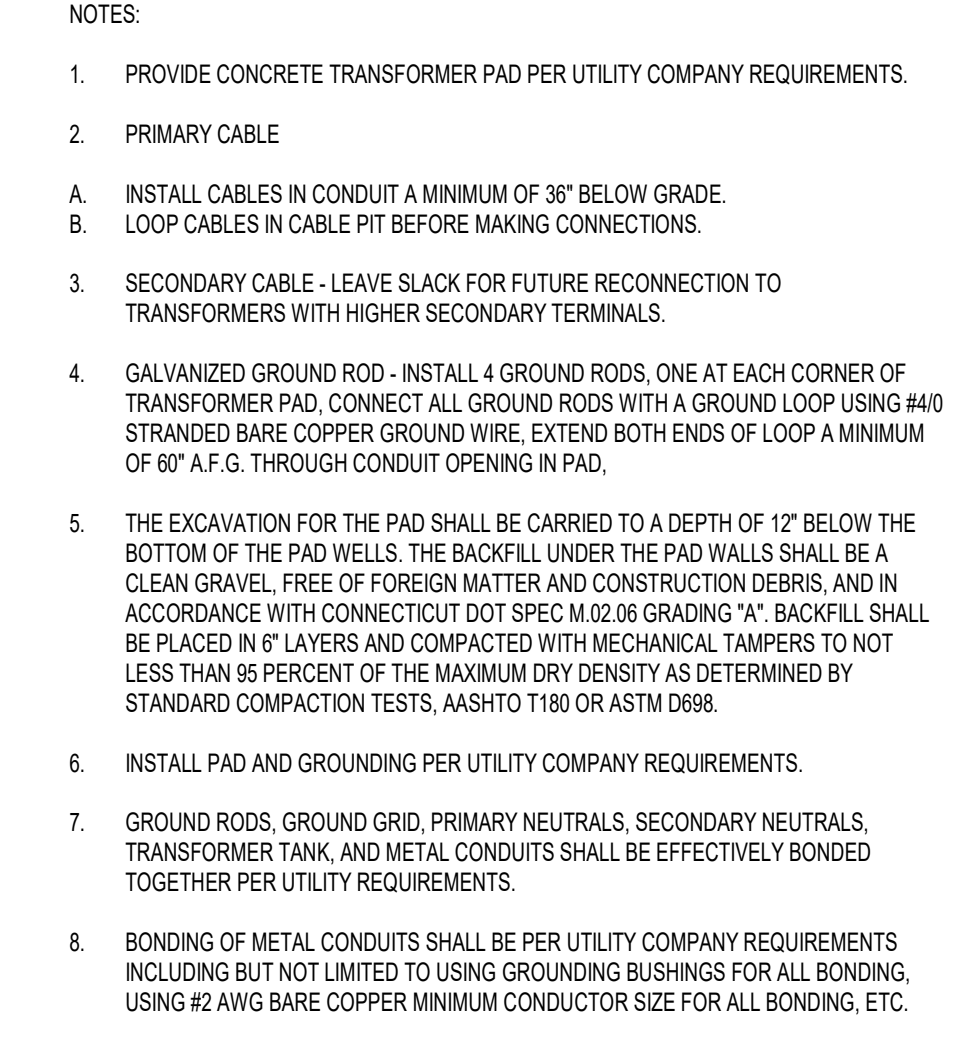
Electrical Details

Sheet No.

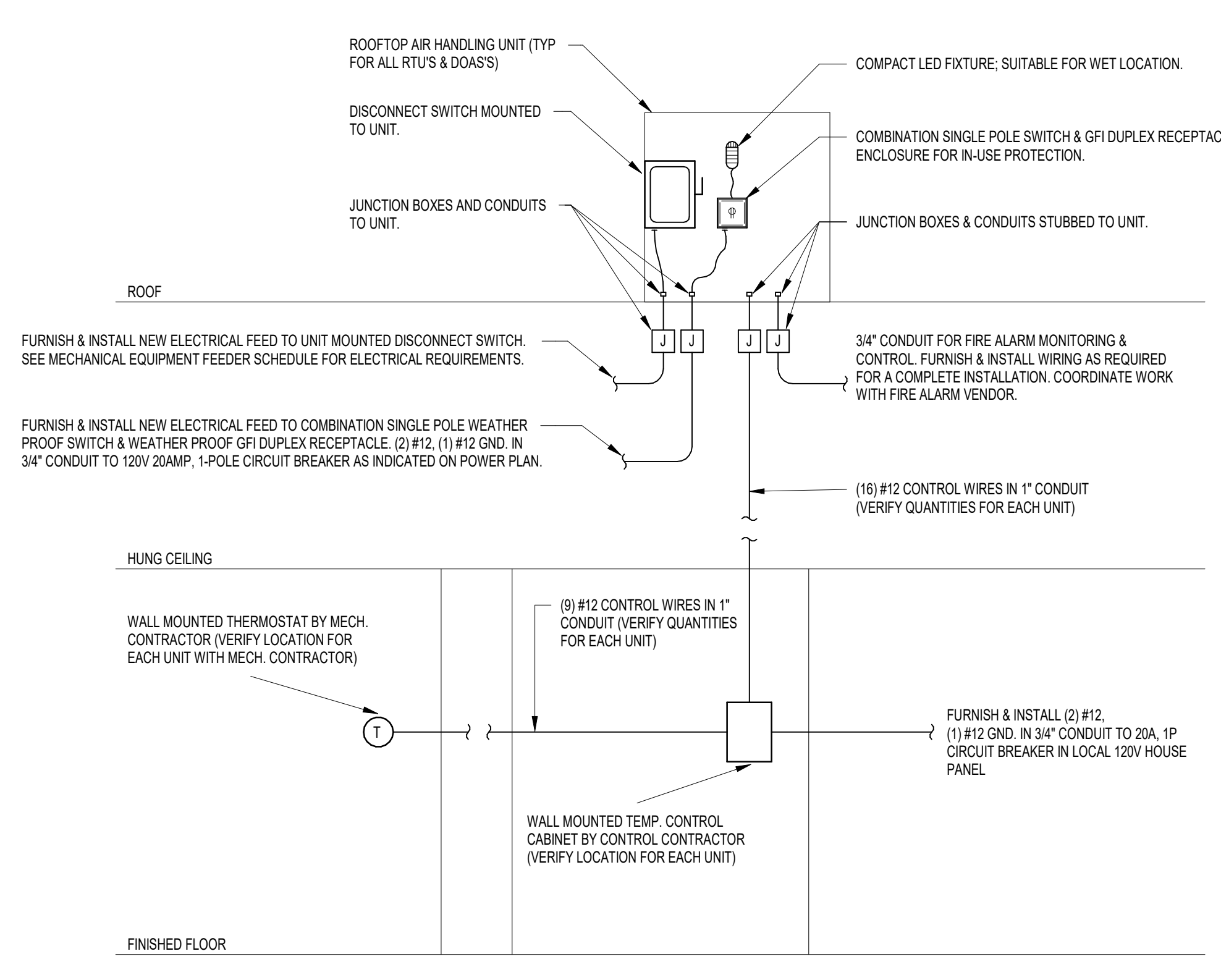
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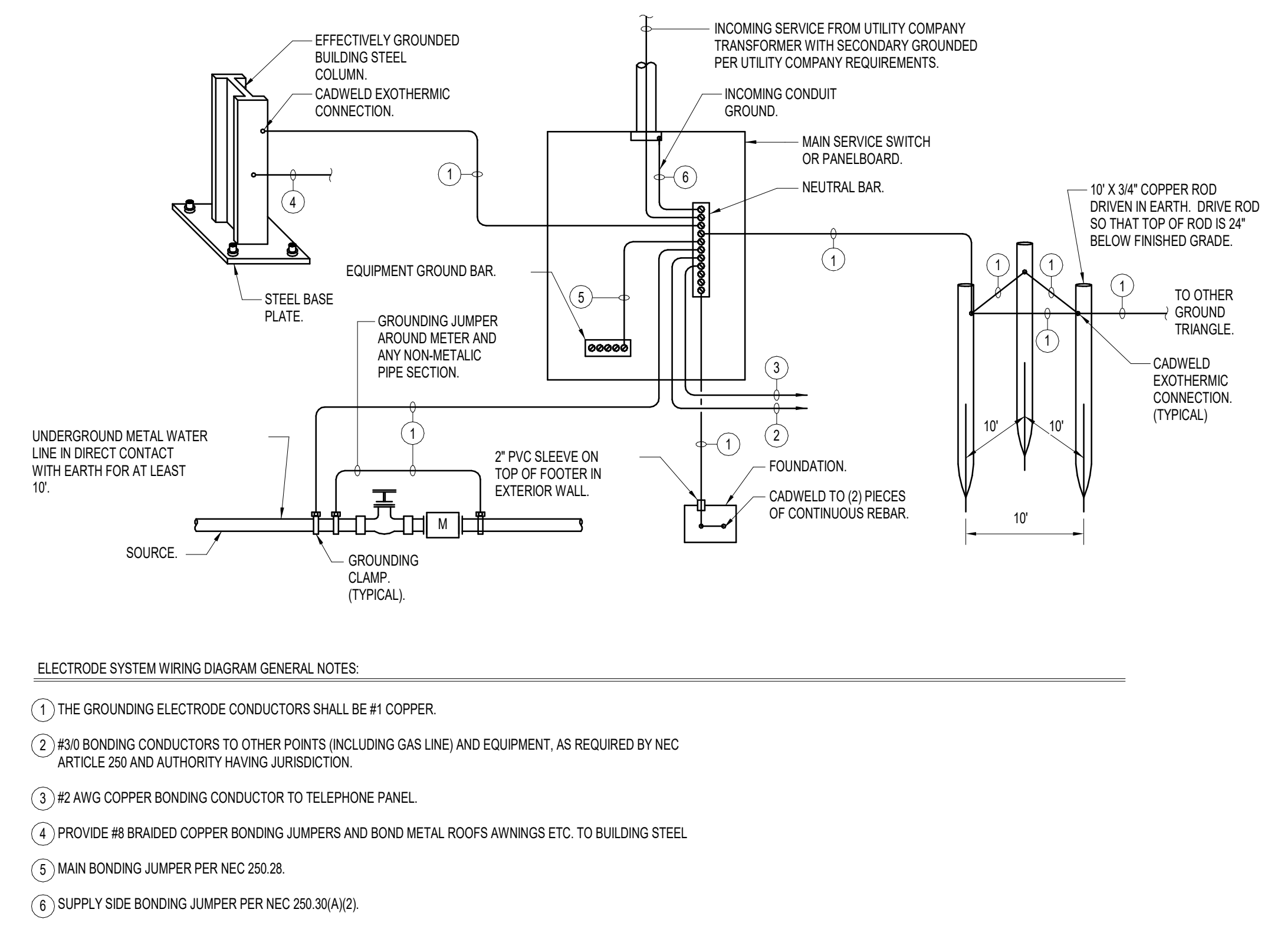
3 TYPICAL MANHOLE DETAIL
NOT TO SCALE



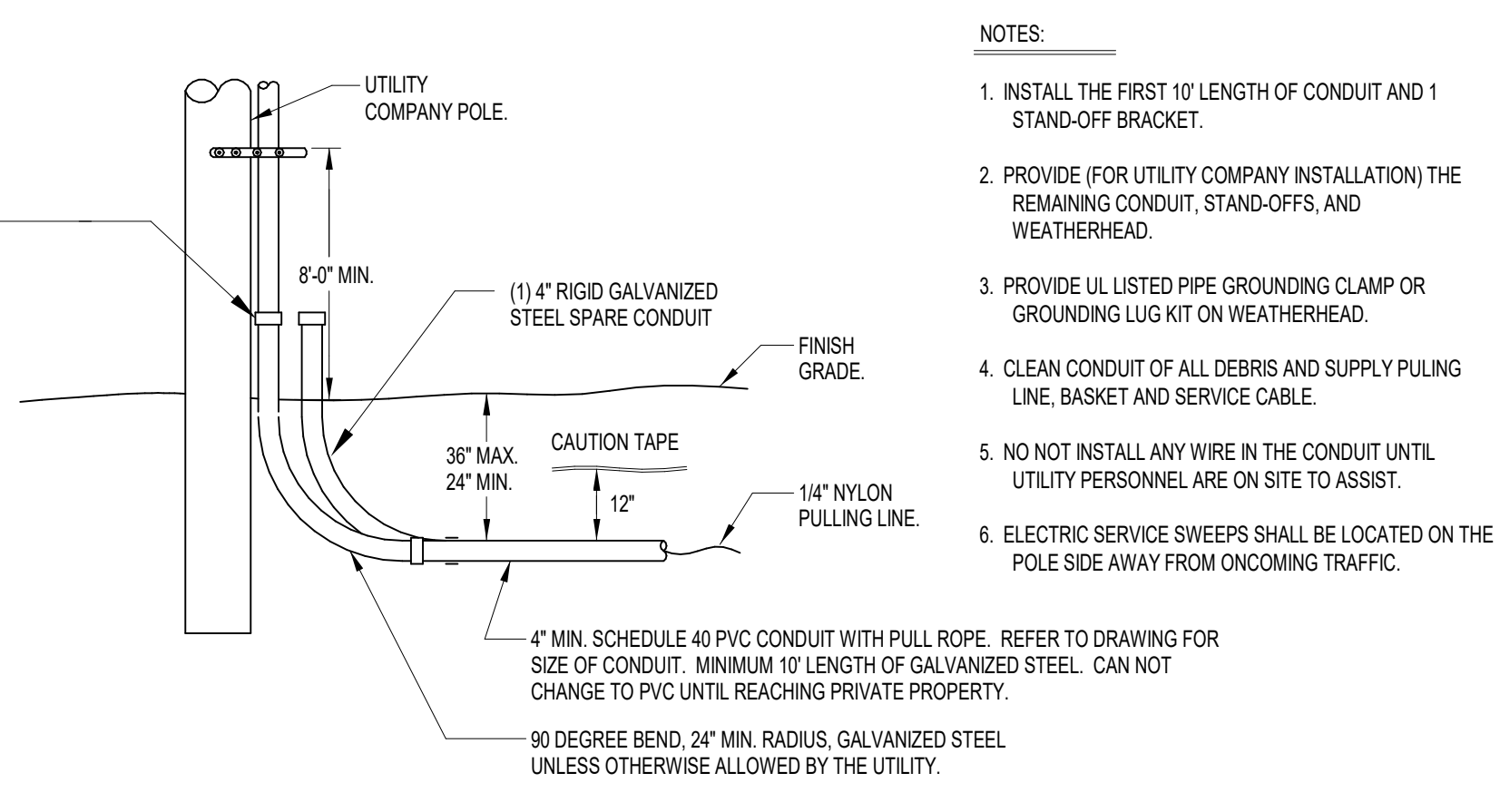
2 CONCRETE TRANSFORMER PAD DETAIL
NOT TO SCALE



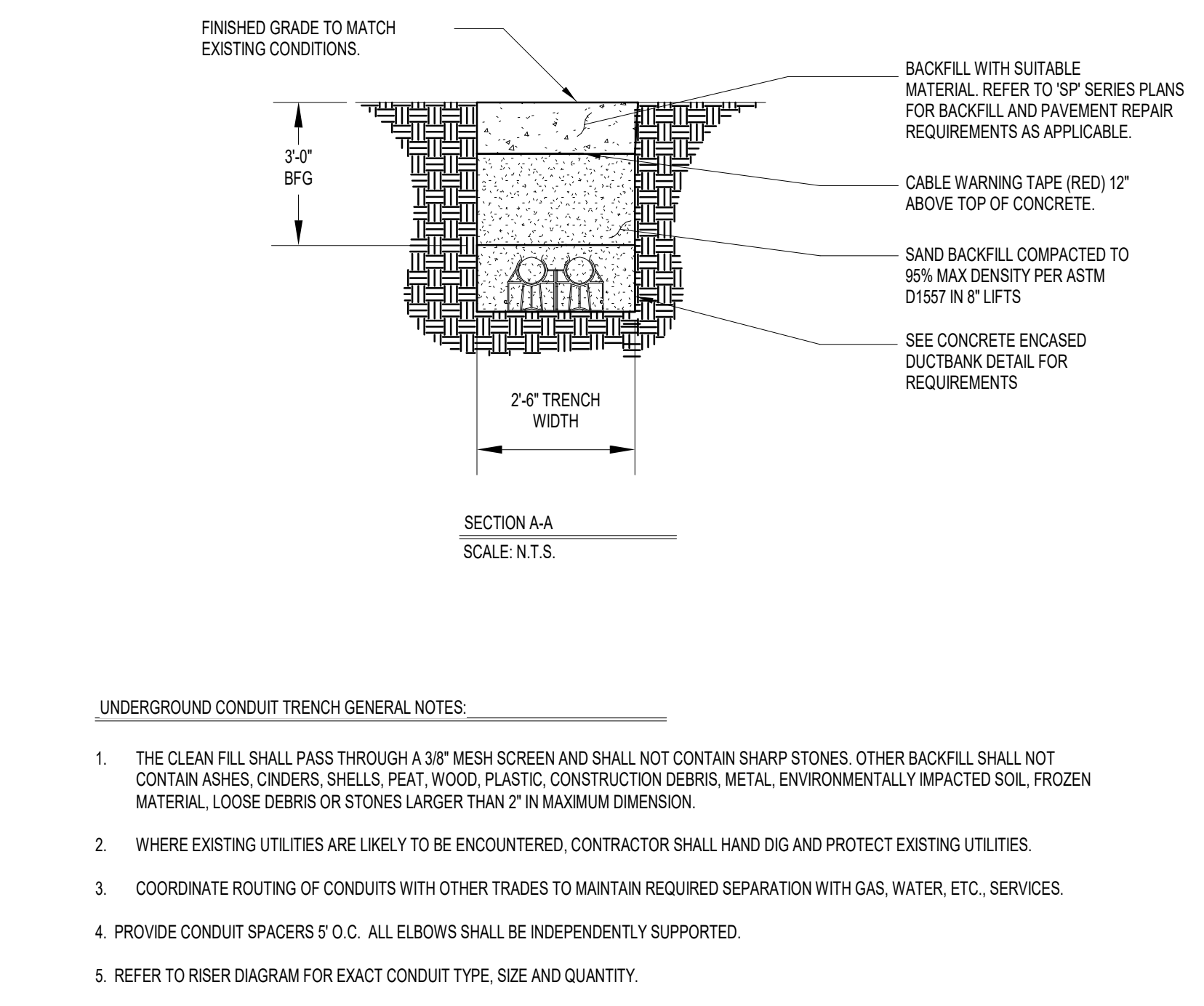
1 ROOF TOP HVAC EQUIPMENT ELECTRICAL INSTALLATION DETAIL
NOT TO SCALE



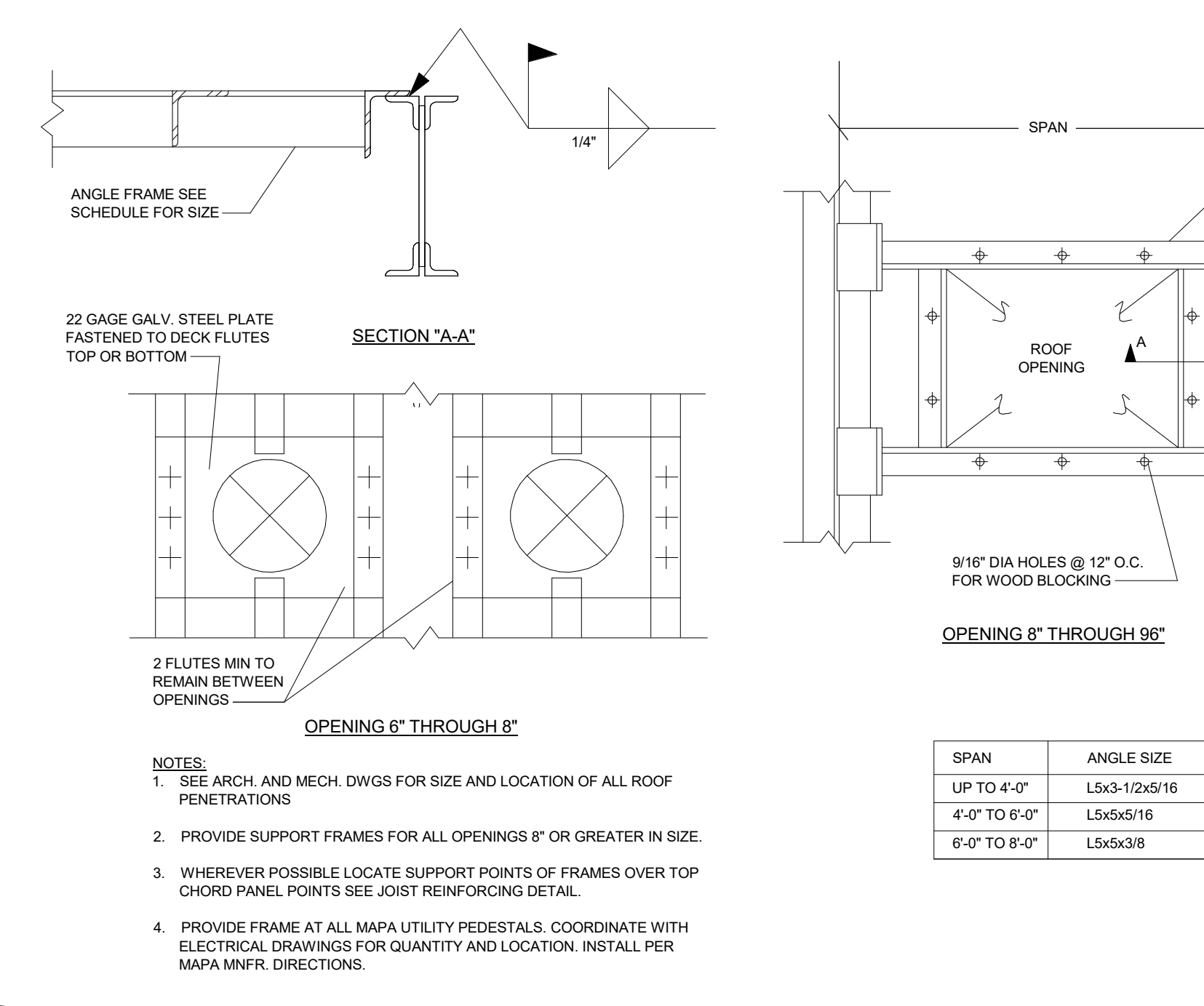
6 SERVICE GROUNDING ELECTRODE SYSTEM WIRING DIAGRAM
NOT TO SCALE



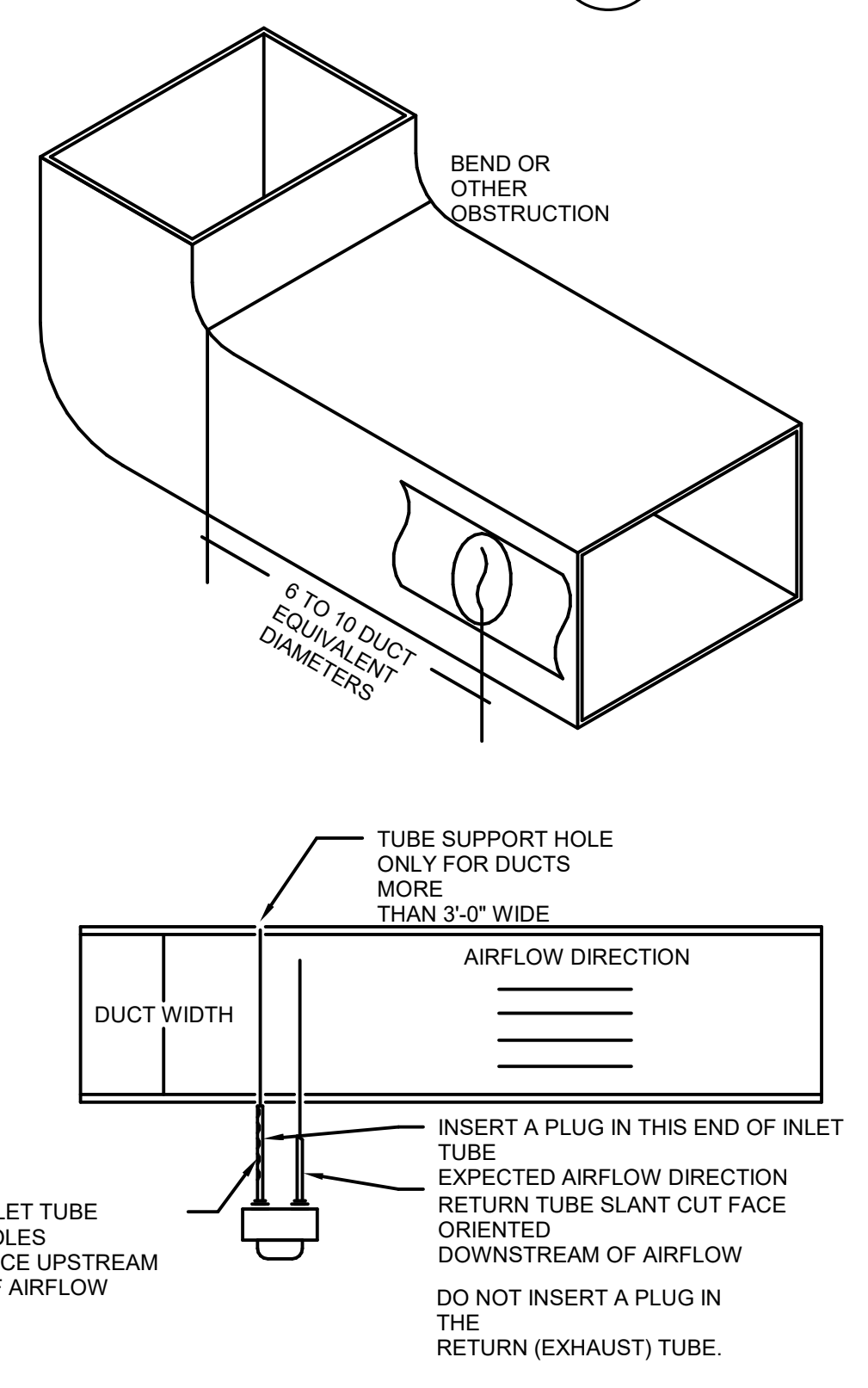
5 UTILITY POLE DETAIL
NOT TO SCALE



4 PRIMARY FEEDER UNDERGROUND CONDUIT TRENCH DETAIL
NOT TO SCALE



8 TYP. ROOF OPENING AND MAPA UTILITY PEDESTAL FRAME DETAIL
NOT TO SCALE



7 DUCT SMOKE DETECTOR MOUNTING DETAIL
NOT TO SCALE

MECHANICAL FEEDER SCHEDULE

Table with columns: EQUIPMENT, VOLTAGE, POLES, AMPS, KW, DISCONNECT SW., FUSE, FEEDER, REMARKS. Lists various electrical feeders (ACU-1, BCU-1, FCU-1.1, etc.) with their specifications and notes.

NOTES:

- 1. ALL EQUIPMENT FEEDERS SHALL BE FURNISHED AND INSTALLED FROM CIRCUIT BREAKER TO FINAL TERMINATION ON EQUIPMENT FOR A COMPLETE INSTALLATION AS INDICATED BY DIVISION 26.
2. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BE HACR RATED OF SIZE AS INDICATED BY DIVISION 26.
3. ALL EQUIPMENT FEEDER TERMINATIONS TO DISCONNECT SWITCHES AND MOTORS SHALL BE RUN IN MAXIMUM 4" LIQUID-TIGHT FLEXIBLE STEEL CONDUITS.

REMARKS:

- A. DISCONNECT SWITCH, STARTERS, RELAYS, CONTROL WIRING PROVIDED BY MECH. CONTRACTOR. WIRING TO DISCONNECT SWITCH AND EQUIPMENT TERMINALS PROVIDED BY ELECTRICAL CONTRACTOR.
B. STARTERS, RELAYS, CONTROL WIRING PROVIDED BY MECH. CONTRACTOR. DISCONNECT SWITCH & WIRING TO DISCONNECT SWITCH & EQUIPMENT TERMINALS PROVIDED BY ELECTRICAL CONTRACTOR.



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190 PUTTING GREEN RD.
FAIRFIELD, CT 06825

Table with columns: NO, DATE, DESCRIPTION. Includes a design log with fields for Design, Drawn, Project No., Date, and Issued for.

Switchboard: MDP2

LOCATION: STORAGE 102
SUPPLY FROM: UTILITY
MOUNTING: PAD MOUNTED
ENCLOSURE: NEMA 1
VOLTS: 120/208V
PHASES: 3
WIRES: 4
A.I.C. RATING: 65 KAIC
MAINS TYPE: COPPER
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

Table with columns: CKT, CIRCUIT DESCRIPTION, POLES, FRAME SIZE, TRIP RATING, LOAD, REMARKS. Rows include DOAS-1, DOAS-2, RTU-1, RTU-2, PANEL MA1, PANEL MA2, SPARE, FAN COIL UNITS, ATC CONTROLS, SPARE.

LOAD CLASSIFICATION table with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED LOAD, PANEL TOTALS. Includes HVAC and RECEPTACLES.

NOTES:
1. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

PANEL: MA1

LOCATION: ART 123A
SUPPLY FROM: MDP2
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/208V
PHASES: 3
WIRES: 4
A.I.C. RATING: 22 KAIC
MAINS TYPE: COPPER
BUS RATING: 600 A
MCB RATING: 600 A

Main circuit table for Panel MA1 with columns: CKT, CIRCUIT DESCRIPTION, TRIP, POLES, A, B, C, POLES, TRIP, CIRCUIT DESCRIPTION, CKT. Rows include VAV UNITS, REC - ROOFTOP EQUIPMENT, VRF-2, FAN COIL UNITS, ATC CONTROLS, SPARE, and MA3.

LOAD CLASSIFICATION table for Panel MA1 with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes HVAC and RECEPTACLES.

NOTES:
1. CIRCUIT BREAKERS FEEDING F.A. DEVICES SHALL BE RED WITH LOCK-ON DEVICE
2. PROVIDE CLASS A GFI CIRCUIT BREAKER
3. PROVIDE SHUNT-TRIP BREAKER
4. MATCH BREAKER AND WIRE SIZE TO SPD
5. PROVIDE HANDLE TIE BETWEEN 3-P AND 1-P CUBICLE BREAKERS FOR MULTIWIRE BRANCH...

PANEL: MA2

LOCATION: LOBBY 208
SUPPLY FROM: MDP2
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/208V
PHASES: 3
WIRES: 4
A.I.C. RATING: 22 KAIC
MAINS TYPE: COPPER
BUS RATING: 600 A
MCB RATING: 600 A

Main circuit table for Panel MA2 with columns: CKT, CIRCUIT DESCRIPTION, TRIP, POLES, A, B, C, POLES, TRIP, CIRCUIT DESCRIPTION, CKT. Rows include VAV UNITS, REC - ROOFTOP EQUIPMENT, VRF-1, FAN COIL UNITS, ATC CONTROLS, SPARE, and MA4.

LOAD CLASSIFICATION table for Panel MA2 with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes HVAC and RECEPTACLES.

NOTES:
1. CIRCUIT BREAKERS FEEDING F.A. DEVICES SHALL BE RED WITH LOCK-ON DEVICE
2. PROVIDE CLASS A GFI CIRCUIT BREAKER
3. PROVIDE SHUNT-TRIP BREAKER
4. MATCH BREAKER AND WIRE SIZE TO SPD
5. PROVIDE HANDLE TIE BETWEEN 3-P AND 1-P CUBICLE BREAKERS FOR MULTIWIRE BRANCH...

PANEL: MA3

LOCATION: CORRIDOR 154
SUPPLY FROM: MA1
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/208V
PHASES: 3
WIRES: 4
A.I.C. RATING: 10 KAIC
MAINS TYPE: COPPER
BUS RATING: 250 A
MCB RATING: 225 A

Main circuit table for Panel MA3 with columns: CKT, CIRCUIT DESCRIPTION, TRIP, POLES, A, B, C, POLES, TRIP, CIRCUIT DESCRIPTION, CKT. Rows include VAV UNITS, VRF-7, FAN COIL UNITS, ATC CONTROLS, SPARE, and MA3.

LOAD CLASSIFICATION table for Panel MA3 with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes HVAC and RECEPTACLES.

NOTES:
1. CIRCUIT BREAKERS FEEDING F.A. DEVICES SHALL BE RED WITH LOCK-ON DEVICE
2. PROVIDE CLASS A GFI CIRCUIT BREAKER
3. PROVIDE SHUNT-TRIP BREAKER
4. MATCH BREAKER AND WIRE SIZE TO SPD
5. PROVIDE HANDLE TIE BETWEEN 3-P AND 1-P CUBICLE BREAKERS FOR MULTIWIRE BRANCH...

PANEL: MA4

LOCATION: MEDIA CENTER 160
SUPPLY FROM: MA2
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/208V
PHASES: 3
WIRES: 4
A.I.C. RATING: 10 KAIC
MAINS TYPE: COPPER
BUS RATING: 250 A
MCB RATING: 225 A

Main circuit table for Panel MA4 with columns: CKT, CIRCUIT DESCRIPTION, TRIP, POLES, A, B, C, POLES, TRIP, CIRCUIT DESCRIPTION, CKT. Rows include VAV UNITS, VRF-5, RECEPTACLES, REC - ROOFTOP EQUIPMENT, FAN COIL UNITS, ATC CONTROLS, SPARE, and MA4.

LOAD CLASSIFICATION table for Panel MA4 with columns: CONNECTED LOAD, DEMAND FACTOR, ESTIMATED DEMAND, PANEL TOTALS. Includes HVAC and RECEPTACLES.

NOTES:
1. CIRCUIT BREAKERS FEEDING F.A. DEVICES SHALL BE RED WITH LOCK-ON DEVICE
2. PROVIDE CLASS A GFI CIRCUIT BREAKER
3. PROVIDE SHUNT-TRIP BREAKER
4. MATCH BREAKER AND WIRE SIZE TO SPD
5. PROVIDE HANDLE TIE BETWEEN 3-P AND 1-P CUBICLE BREAKERS FOR MULTIWIRE BRANCH...



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REVISIONS table with columns: NO, DATE, DESCRIPTION

Designed: DB
Drawn: PS
Reviewed: SB
Project No.: 2303053
Date: 09/29/2023
Issued for: 95% CONSTRUCTION DOCUMENTS

Title: ELECTRICAL PANELBOARD SCHEDULES

Sheet No.

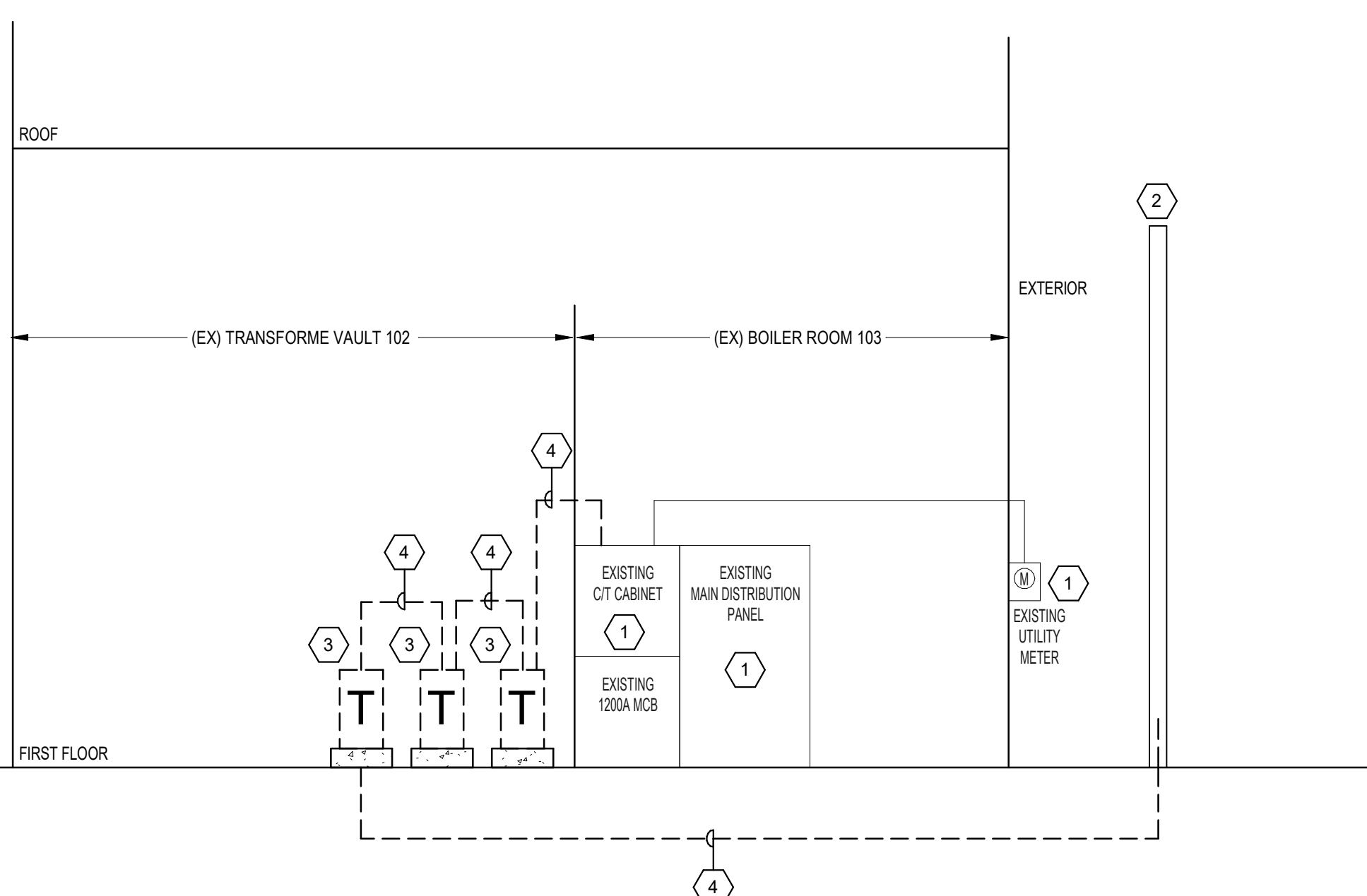
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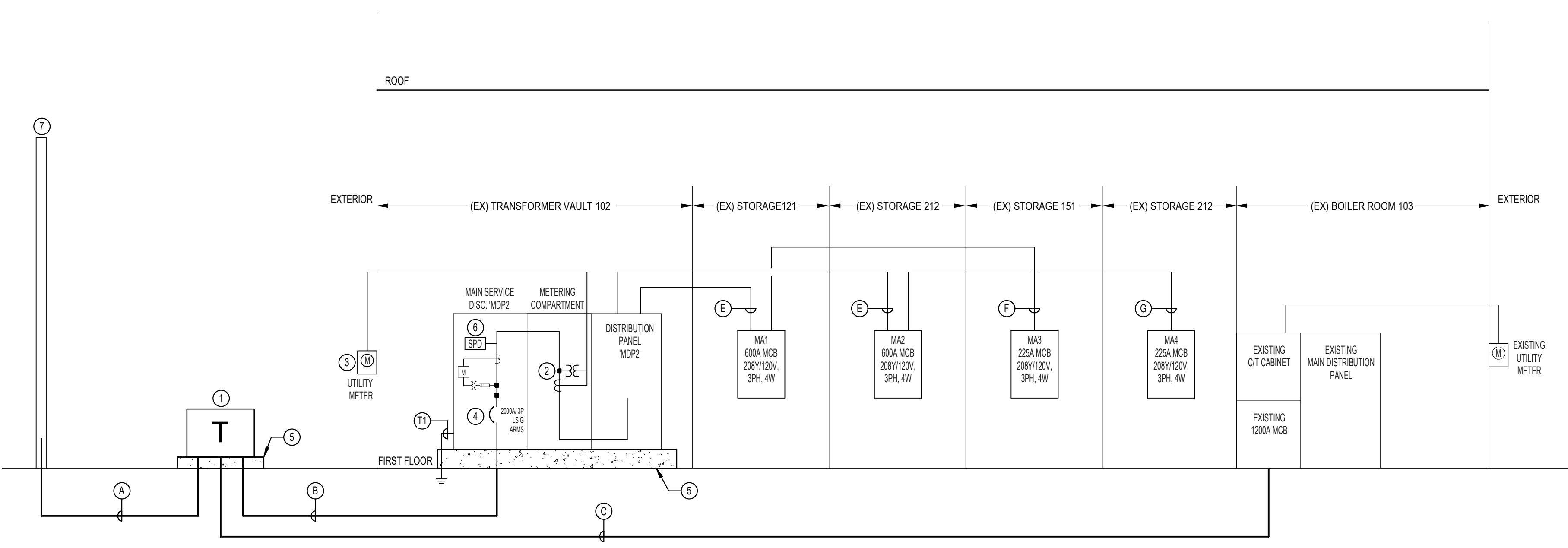
ONE-LINE POWER RISER DIAGRAM FEEDER KEY NOTES

SYMBOL	VOLTS	PHASE	AMPS	COPPER WIRE (THHN IN EMT CONDUIT) (UON)	REMARKS
(A)	-	-	-	(2) 5" EMPTY CONDUITS	
(B)	208Y/120V	3PH	2000A	5 SETS (4) #600KCMIL IN 4" EACH	
(C)	208Y/120V	3PH	1200A	3 SETS (4) #500KCMIL IN 4" EACH	
(D)	-	-	-	-	
(E)	208Y/120V	3PH	600A	(4) 2 SETS #350KCMIL & (1) #1 AWG GND IN 2-1/2" C	VOLTAGE DROP
(F)	208Y/120V	3PH	225A	(4) #40 & (1) #4 AWG GND IN 2-1/2" C	
(G)	208Y/120V	3PH	225A	(4) #400KCMIL & (1) #3 AWG GND IN 3" C	VOLTAGE DROP
EQUIPMENT GROUNDING					
(T)	2000A MAIN SERV. DISC. 'MS'			(1) #3/0 AWG GND IN 3/4" (COPPER)	

- NOTES**
1. BOND NEUTRAL OF TRANSFORMER SECONDARY TO THE TRANSFORMER CASE WITH BONDING JUMPER AS PER NATIONAL ELECTRIC CODE.
 2. GROUND THE CASING OF TRANSFORMER TO THE NEAREST AVAILABLE EFFECTIVELY GROUNDED STRUCTURAL STEEL AS PER NATIONAL ELECTRIC CODE.
 3. ALL CONDUIT SIZES ARE FOR COPPER CONDUCTORS.
 4. COORDINATE EXACT MCB AND MAIN CIRCUIT BREAKER AND WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
 5. COORDINATE EXACT INTERNAL SURGE PROTECTION DEVICE CIRCUIT BREAKER AND WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER.



1 ONE-LINE DEMOLITION RISER DIAGRAM - PHASE I
NOT TO SCALE



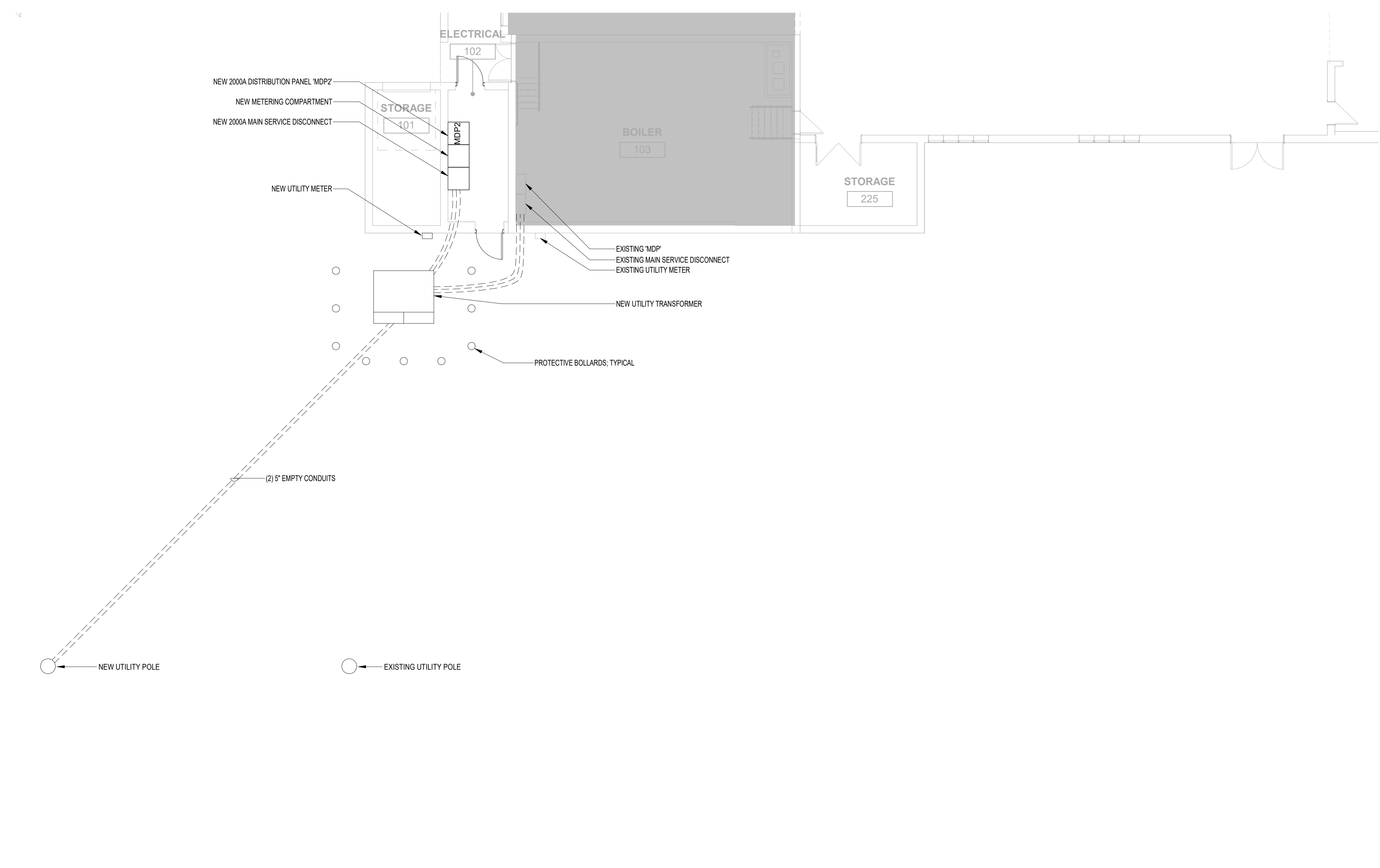
2 ONE-LINE RISER DIAGRAM - PHASE II
NOT TO SCALE

- ### RISER DIAGRAM GENERAL NOTES
1. ALL INSTALLATIONS SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES.
 2. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE SUITABLE FOR ITS APPLICATION PER THE LISTING INSTRUCTIONS OF A NATIONALLY RECOGNIZED AND APPROVED TESTING LABORATORY.
 3. ALUMINUM CONDUCTORS MAY BE SUBSTITUTED FOR COPPER. FEEDERS 100A AND LARGER ALUMINUM CONDUCTORS SHALL NOT BE USED WHERE EXPRESSLY FORBIDDEN BY THE LOCAL ELECTRICAL INSPECTIONS DEPARTMENT, UTILITY COMPANY OR THE AHI.
 4. WHERE FEEDERS ARE ADJUSTED FOR VOLTAGE DROP, COORDINATE LANDING LUGS TO ACCOMMODATE LARGER WIRE SIZE. IT SHALL BE ACCEPTABLE TO PROVIDE JUNCTION BOX WITH TERMINAL BLOCKS AHEAD OF OVERCURRENT DEVICE TO TRANSITION WIRE SIZES.
 5. REFER TO DETAILS FOR SERVICE GROUNDING & BONDING.
 6. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED ON A 3" CONCRETE HOUSEKEEPING PAD, UNLESS OTHERWISE NOTED.
 7. ALL CIRCUIT BREAKERS GREATER THAN 250A SHALL BE PROVIDED WITH LSI ADJUSTABLE TRIP SETTINGS.
 8. CONTRACTOR SHALL PROVIDE A SHORT CIRCUIT STUDY, SELECTIVE COORDINATION STUDY, ARC FLASH ANALYSIS, AND ARC FLASH LABELS FOR EACH ELECTRICAL SERVICE AND INFRASTRUCTURE BY A LICENSED ENGINEER. ADJUST TRIP AND GROUND FAULT SETTINGS ON CIRCUIT BREAKERS & MODIFY SHORT CIRCUIT RATINGS OF ELECTRICAL EQUIPMENT PER THE RESULTS. ALL OTHER LOADS SHALL BE COORDINATED TO 0.1 SECONDS.
 9. PROVIDE A PERMANENT PLAQUE AT EACH SERVICE DISCONNECT LOCATION DENOTING ALL OTHER SERVICES SUPPLYING THE BUILDING, LOCATION, AND THE AREA SERVED BY EACH PER THE REQUIREMENTS OF NEC 225.37 AND 230.2(E).
 10. PROVIDE A PERMANENT PLAQUE AT SERVICE ENTRANCE SWITCHBOARD PER THE REQUIREMENTS OF NEC 700.7(B) INDICATING THE FOLLOWING:
"WARNING: SHOCK HAZARD EXISTS IF THE GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE IS ENERGIZED."
 11. PROVIDE ARC ENERGY REDUCING MAINTENANCE SWITCH FOR ANY BREAKER FROM 1200A OR HIGHER PER NEC ARTICLE 340.87. BREAKERS SHALL BE EQUIPPED WITH AN ADJUSTABLE INSTANTANEOUS TRIP SETTING. SIGNAGE AT EACH BREAKER SHALL BE PROVIDED INDICATING THE FOLLOWING:
"REDUCE THE INSTANTANEOUS TRIP SETTING OF THIS BREAKER PRIOR TO PERFORMING MAINTENANCE WITHIN THE ARC FLASH HAZARD BOUNDARY. SET THE INSTANTANEOUS TRIP SETTING BACK TO NORMAL WHEN COMPLETE."
 12. REFER TO SWITCHBOARD AND PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.
 13. FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT 80% DESIGN LOAD. BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD.

- ### RISER DIAGRAM KEY NOTES
1. NEW UTILITY PAD-MOUNTED TRANSFORMER (BY UTILITY COMPANY), TRANSFORMER PAD (BY ELECTRICAL CONTRACTOR), FURNISH AND INSTALL TRANSFORMER PAD AND PROTECTIVE BOLLARDS PER LOCAL UTILITY COMPANY REQUIREMENTS. COORDINATE EXACT TRANSFORMER LOCATION WITH ELECTRIC UTILITY & CONSTRUCTION MANAGER.
 2. NEW UTILITY COMPANY METERING COMPARTMENT SECTION (PER UTILITY COMPANY REQUIREMENTS). COORDINATE GRID SEQUENCE WITH LOCAL UTILITY.
 3. NEW UTILITY COMPANY METER. COORDINATE METER LOCATION AND INSTALL METER SOCKET AND WIRING PER UTILITY COMPANY REQUIREMENTS.
 4. NEW SWITCHBOARD MAIN DISCONNECT SWITCH (MDP2) 2000A MCB, 208Y/120V, 3PH, 4W. PROVIDE WITH LSI TYPE MAIN CIRCUIT BREAKER WITH ARCH FLASH REDUCTION MAINTENANCE SWITCH.
 5. FURNISH & INSTALL CONCRETE HOUSE KEEPING PAD FOR ELECTRICAL EQUIPMENT.
 6. FURNISH & INSTALL INTERNAL SURGE PROTECTION DEVICE (SPD), 240KA SURGE CURRENT RATING, INTEGRAL DISCONNECT, SURGE COUNTER, ALARM DRY CONTACTS.
 7. UTILITY COMPANY PRIMARY SERVICE POLE. ELECTRICAL CONTRACTOR SHALL PROVIDE RISER CONDUITS & CONDUCTORS ON THE POLE. UTILITY COMPANY SHALL PROVIDE POLE, PRIMARY METERING & MAKE ALL CONNECTIONS.

- ### DEMOLITION RISER DIAGRAM KEY NOTES
1. EXISTING EQUIPMENT TO REMAIN.
 2. EXISTING UTILITY POLE TO REMAIN.
 3. EXISTING SINGLE PHASE TRANSFORMER TO BE REMOVED.
 4. EXISTING CONDUIT/WIRING & CONDUCTORS TO BE REMOVED.

- ### PHASING NOTES:
- (SHALL BE COORDINATED WITH OWNER AND CM PRIOR TO BIDDING)
1. CONTRACTOR SHALL FULLY INSTALL CONDUITS AND FEEDERS FROM NEW TRANSFORMER LOCATION TO EXISTING MDP SWITCHBOARD.
 2. CONTRACTOR SHALL STUB CONDUITS AND CONDUCTORS FROM NEW TRANSFORMER LOCATION INTO EXISTING TRANSFORMER VAULT ROOM.
 3. TRANSFORMER CAN BE INSTALLED AT THIS POINT, BUT NOT ENERGIZED BY UTILITY COMPANY.
 4. DO NOT CONNECT SECONDARIES TO NEW SERVICE BOARD MDP2. THIS WILL HAPPEN AFTER OLD SERVICE IS ALREADY BACKFED DURING A SEPARATE BUILDING SHUTDOWN.
 5. NEW FEEDERS TO EXISTING SERVICE BOARD SHALL BE TRENCHED THROUGH PARKING LOT AND PREPARED FOR CUT OVER FROM OLD TRANSFORMER TO NEW TRANSFORMER. COORDINATE TRENCHING LOCATIONS WITH EXISTING UNDERGROUND SERVICES.
 6. COORDINATE NEW FEEDER WITH MDP DISCONNECT ENCLOSURE FOR NEW ENTRY POINT WITH CONDUIT AND CONDUCTORS. PROVIDE EXTRA ENCLOSURE NEXT TO EXISTING EQUIPMENT AS REQUIRED TO PREPARE FOR A CUT OVER WITH MINIMAL DOWN TIME. COORDINATE WITH EQUIPMENT MANUFACTURERS FOR LOCATIONS AVAILABLE TO TERMINATE TO. DO NOT CUT INTO EXISTING EQUIPMENT WITHOUT PRIOR APPROVAL FROM EQUIPMENT MANUFACTURERS.
 7. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO PLAN FOR CUT OVER FROM "OLD" SERVICE TO "NEW" SERVICE. THIS SHALL HAPPEN ON A WEEKEND OR A DATE PLANNED WITH OWNER TO MINIMIZE DOWN TIME DURING SCHOOL OPERATIONS.
 8. CONTRACTOR SHALL COORDINATE SHUT DOWN OF BUILDING WITH OWNER AND PROVIDE FIRE WATCH AND SECURITY AT FACILITY, AS NECESSARY, TO ENSURE BUILDING IS SAFE FOR THE ENTIRETY OF THE OUTAGE.
 9. ELECTRICAL COMPANY SHALL DE-ENERGIZE EXISTING TRANSFORMER INSIDE BUILDING.
 10. CONTRACTOR SHALL FINISH ALL CONNECTIONS NEEDED TO EXISTING MDP SERVICE BOARD. CONTRACTOR SHALL COORDINATE POWER AND LIGHTING REQUIREMENTS WHILE THE SERVICE IS DOWN TO THE BUILDING.
 11. ELECTRICAL COMPANY SHALL ENERGIZE NEW TRANSFORMER PROVIDING POWER TO BUILDING THROUGH NEW TRANSFORMER AND EXISTING SWITCHBOARD MDP.
 12. CONTRACTOR SHALL FINISH ALL CONNECTIONS NEEDED TO NEW MDP2 SERVICE BOARD (WITH CONNECTIONS UNCONNECTED INSIDE THE TRANSFORMER).
 13. CONTRACTOR SHALL AGAIN COORDINATE WITH UTILITY COMPANY TO PLAN CONNECT NEW SWITCHBOARD TO THE NEW TRANSFORMER. THIS SHALL HAPPEN ON A WEEKEND OR A DATE PLANNED WITH OWNER TO MINIMIZE DOWN TIME DURING SCHOOL OPERATIONS.
 14. CONTRACTOR SHALL COORDINATE SHUT DOWN OF BUILDING WITH OWNER AND PROVIDE FIRE WATCH AND SECURITY AT FACILITY, AS NECESSARY, TO ENSURE BUILDING IS SAFE FOR THE ENTIRETY OF THE OUTAGE.
 15. ELECTRICAL COMPANY SHALL DE-ENERGIZE NEW TRANSFORMER.
 16. CONTRACTOR SHALL FINISH ALL CONNECTIONS NEEDED TO NEW MDP2 SERVICE BOARD. CONTRACTOR SHALL COORDINATE POWER AND LIGHTING REQUIREMENTS WHILE THE SERVICE IS DOWN TO THE BUILDING.
 17. ELECTRICAL COMPANY SHALL ENERGIZE TRANSFORMER PROVIDING POWER TO NEW SERVICE SWITCHBOARD MDP2.



3 PARTIAL ELECTRICAL SITE PLAN
1/8" = 1'-0"