

HUNTINGTON ELEMENTARY MECHANICAL UPGRADE

90 EAST 100 NORTH

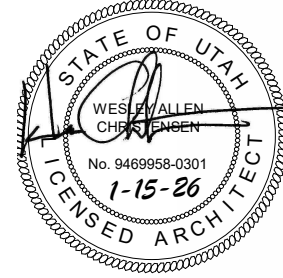
HUNTINGTON, UT 84528

PROJECT CONTACTS

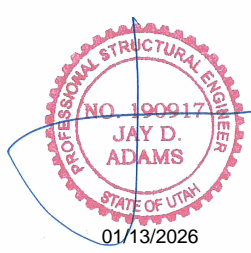
OWNER
EMERY COUNTY SCHOOL DISTRICT
120 NORTH MAIN STREET
HUNTINGTON, UTAH 84528
(435) 687-9846



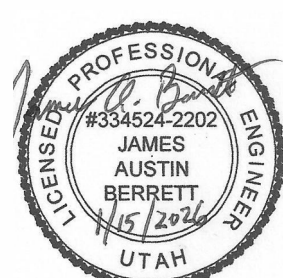
ARCHITECTURAL
KMA ARCHITECTS, INC.
170 NORTH MAIN STREET
SPANISH FORK, UTAH 84660
(801) 377-5062



STRUCTURAL
DYNAMIC STRUCTURES
744 SOUTH 400 EAST,
OREM, UTAH 84097
(801) 356-1140



MECHANICAL
OLSEN & PETERSON ENGINEERING
14 EAST 2700 SOUTH
SALT LAKE CITY, UTAH 84115
(801) 486-4646



ELECTRICAL
RESOLUT
181 EAST 5600 SOUTH, SUITE 200
MURRAY, UT 84107
(801) 530-3148



GRAPHIC SYMBOLS

ENGINEERED FILL

EARTH

CONCRETE

ASPHALT

BRICK VENEER

STONE VENEER

WOOD STUDS

PLYWOOD

HARDWOOD

RIGID INSULATION

BATT INSULATION

BLOCKING

GYPSUM BOARD

PROPERTY LINE

WALLTYPE TAG

DOOR NUMBER

WINDOW TYPE

CEILING HEIGHT

SHEET NOTE

BUILDING ELEVATION MARK

ROOM NUMBER

DETAIL TAG

ELEVATION MARK

SECTION MARK

PROJECT DATA

APPROX. TOTAL BUILDING AREA: 48,870 SQ. FT.

PROJECT SCOPE

HUNTINGTON ELEMENTARY SCHOOL MECHANICAL UPGRADE CONSISTS OF INSTALLING NEW GAS FIRE/DX ROOF TOP UNITS ALONG WITH THE ASSOCIATED DUCT WORK, NEW HEAT PUMP INDOOR UNIT, NEW AIR COOLED OUTDOOR UNIT, CABINET UNIT HEATER, REPLACING A NEW MAKE-UP AIR UNIT, REPLACING EXISTING EXHAUST FANS. ELECTRICAL SYSTEMS WILL BE MODIFIED ACCORDINGLY TO MEET THE NEW MECHANICAL NEEDS, UPGRADING THE BUILDINGS MAIN SERVICE AND REPLACING EXISTING SWITCH GEAR. ROOF PATCHING IS REQUIRED FOR NEW PENETRATIONS AND STRUCTURAL BRACING AS NEEDED FOR THE NEW ROOF TOP UNITS. ARCHITECTURAL ITEMS WILL BE TO ADDRESS THE AFFECTED AREAS DUE TO CONSTRUCTION.

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AREA 'A' REFLECTED CEILING PLAN
AREA 'B' REFLECTED CEILING PLAN
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PLUMBING DETAILS

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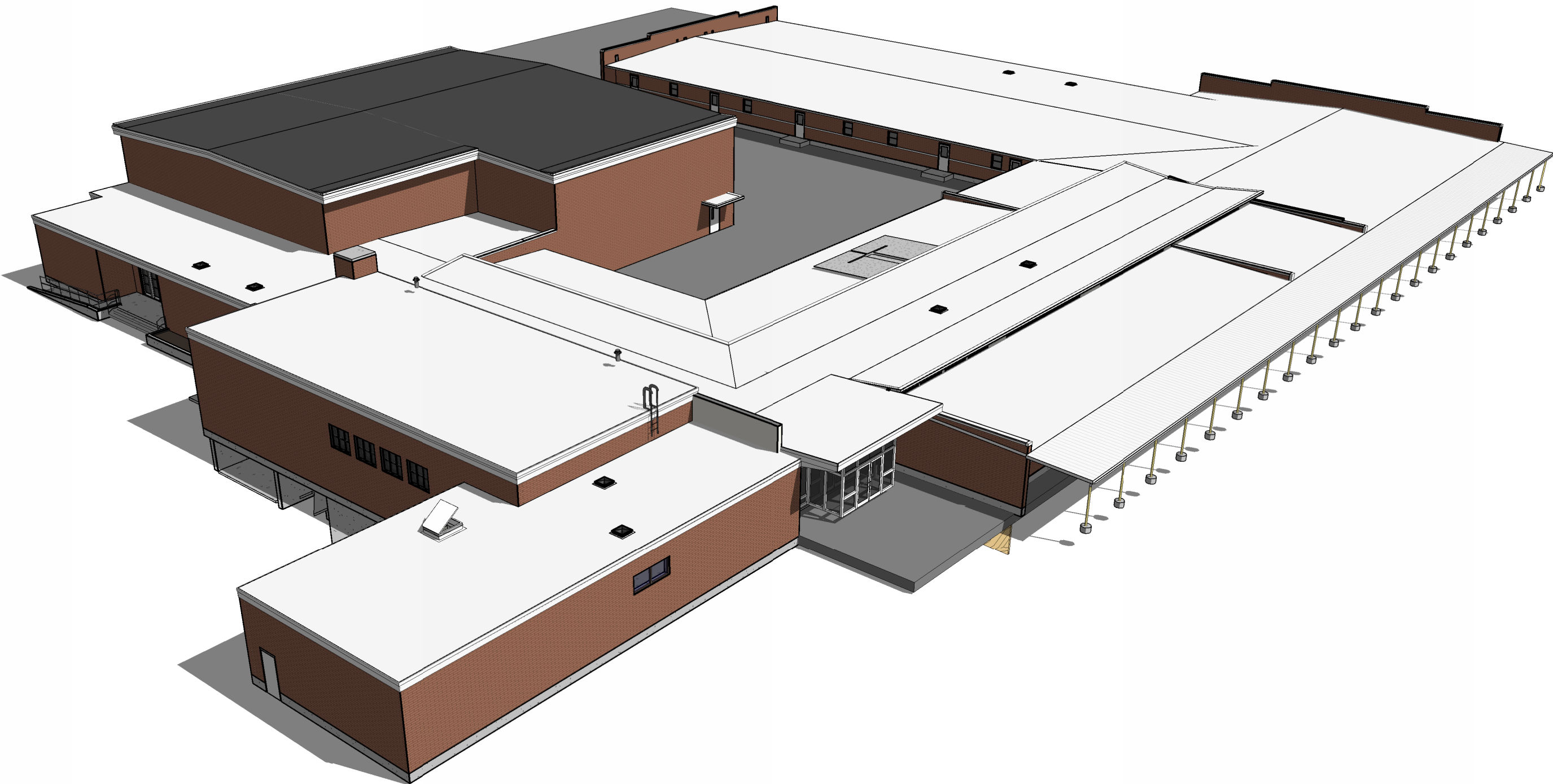
MECHANICAL DEMOLITION PLAN AREA 'A'
MECHANICAL DEMOLITION PLAN AREA 'B'
MECHANICAL PLAN AREA 'A'
MECHANICAL PLAN AREA 'B'
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ELECTRICAL SCHEDULES
ELECTRICAL ONE-LINE DIAGRAM
ELECTRICAL DIAGRAMS
ELECTRICAL DIAGRAMS
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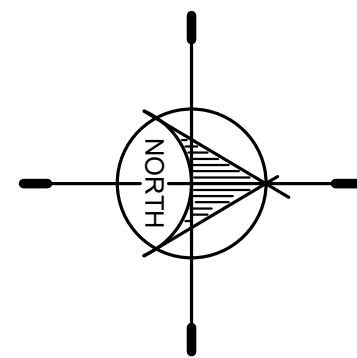


VICINITY MAP





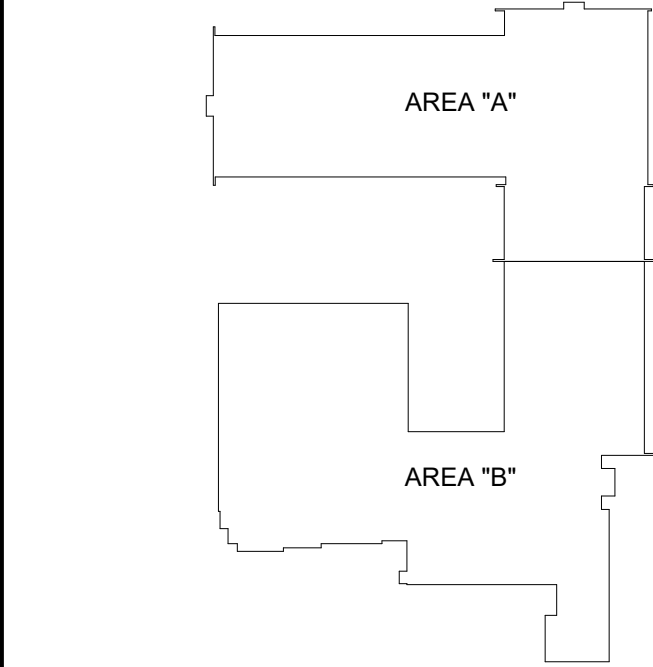
OVERALL MAIN FLOOR PLAN
1/16" = 1'-0"



GENERAL NOTES

- A - COORDINATE WITH MECHANICAL PLANS FOR ADDITIONAL DEMOTION OF MECHANICAL SYSTEMS
- B - ADDITIONAL CEILINGS MAY NEED TO BE DEMOLISHED THAT MAY NOT BE NOTED. TO PROVIDE ADDITIONAL ACCESS FOR THE MECHANICAL SYSTEM AND CONTROLS. CONTRACTOR IS TO PLAN ON WORKING ABOVE AND AROUND THE CEILINGS AND TO BE CAREFUL TO PROTECT THE CEILING TILES, THE GRIDS, EXISTING LIGHTING, FIRE ALARM, AND ANY GYPSUM BOARD MATERIAL FROM ANY DAMAGE. THE CONTRACTOR SHALL REPLACE ANY DAMAGED MATERIALS.

KEY PLAN

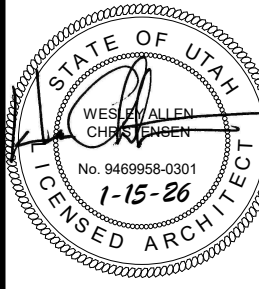


PROJECT TITLE

EMERY SCHOOL DISTRICT
HUNTINGTON ELEMENTARY SCHOOL
MECHANICAL UPGRADE HUNTINGTON, UT 84528

190 E 100 N
DRAWN BY: KMA
CHECKED BY: WC
DATE: JAN 2026
PROJECT #: 176525

A1.1



REVISIONS:



170 NORTH MAIN STREET
SPRINGFIELD, UT 84660
WWW.KMAARCHITECTS.COM

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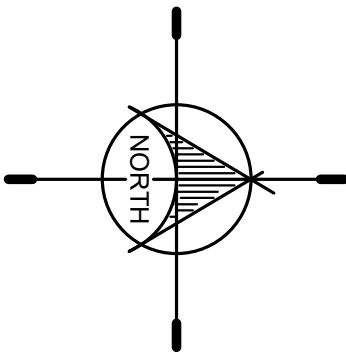
1/14/2026 @ 2:29 PM
As Noted

SHEET NOTES

- 1 - PROPOSED NEW LOCATION OF THE ATC PANEL. COORDINATE IN FIELD WITH EXISTING CONDITIONS. PATCH AND REPAIR ALL EXISTING CONDITIONS DUE TO CONSTRUCTION.
- 2 - EXISTING CONSTRUCTION TO REMAIN. CONTRACTOR TO PATCH, REPAIR, AND CLEAN AS REQUIRED DUE TO DEMOLITION AND NEW CONSTRUCTION.



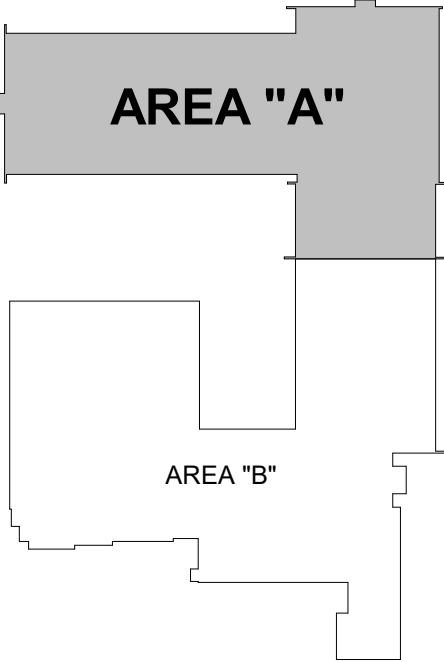
AREA 'A' MAIN FLOOR PLAN
1/8" = 1'-0"



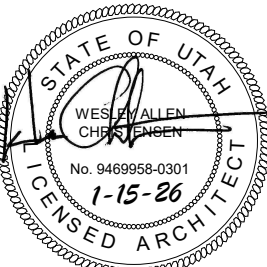
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- A - COORDINATE WITH MECHANICAL PLANS FOR ADDITIONAL DEMOTION OF MECHANICAL SYSTEMS
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KEY PLAN



170 NORTH MAIN STREET
SPRINGFIELD, UT 84660
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REVISIONS:

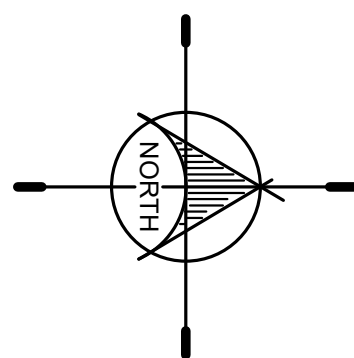
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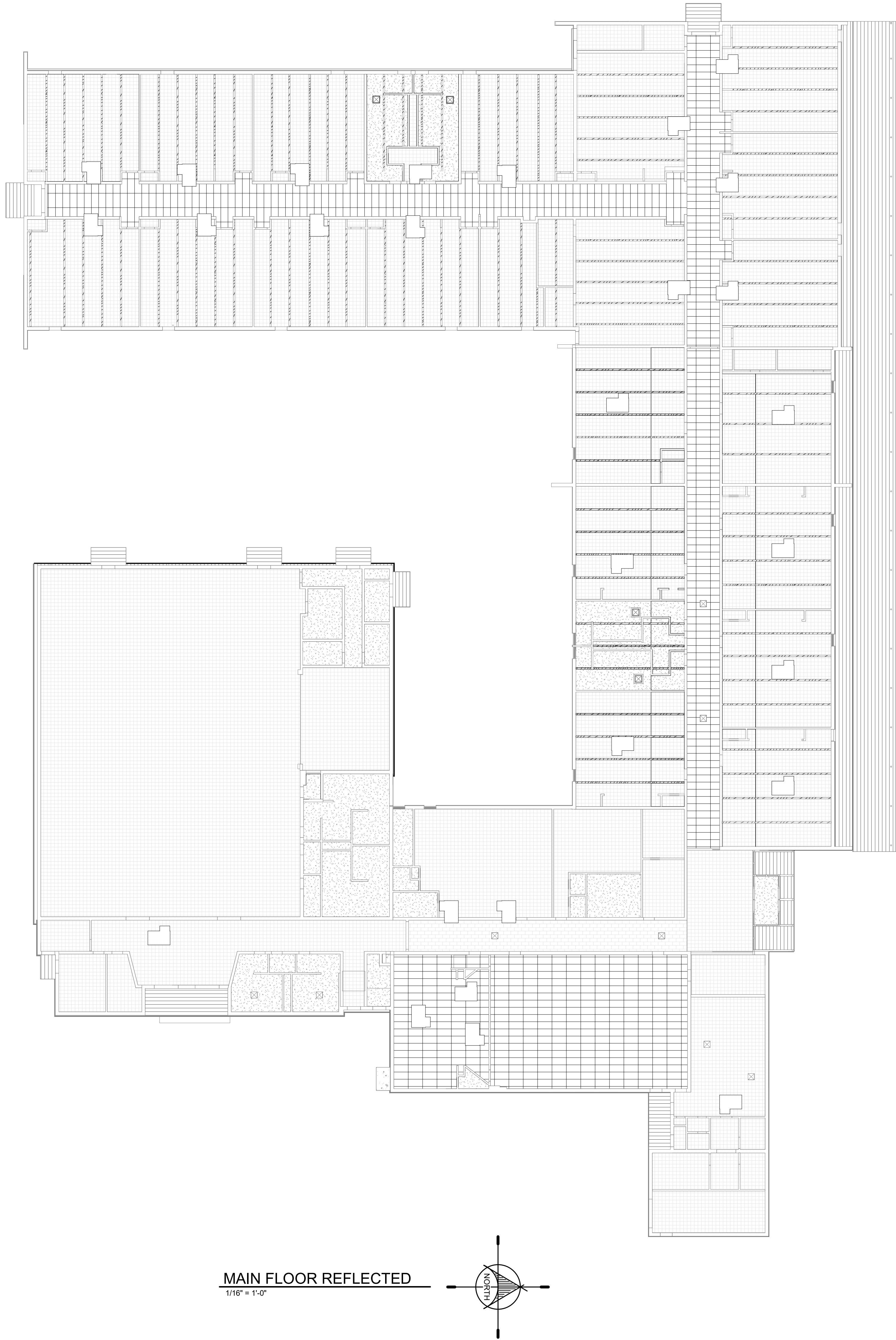
190 E 100 N

DRAWN BY: KMA
CHECKED BY: WC
DATE: JAN 2026
PROJECT #: 176525

A1.1A



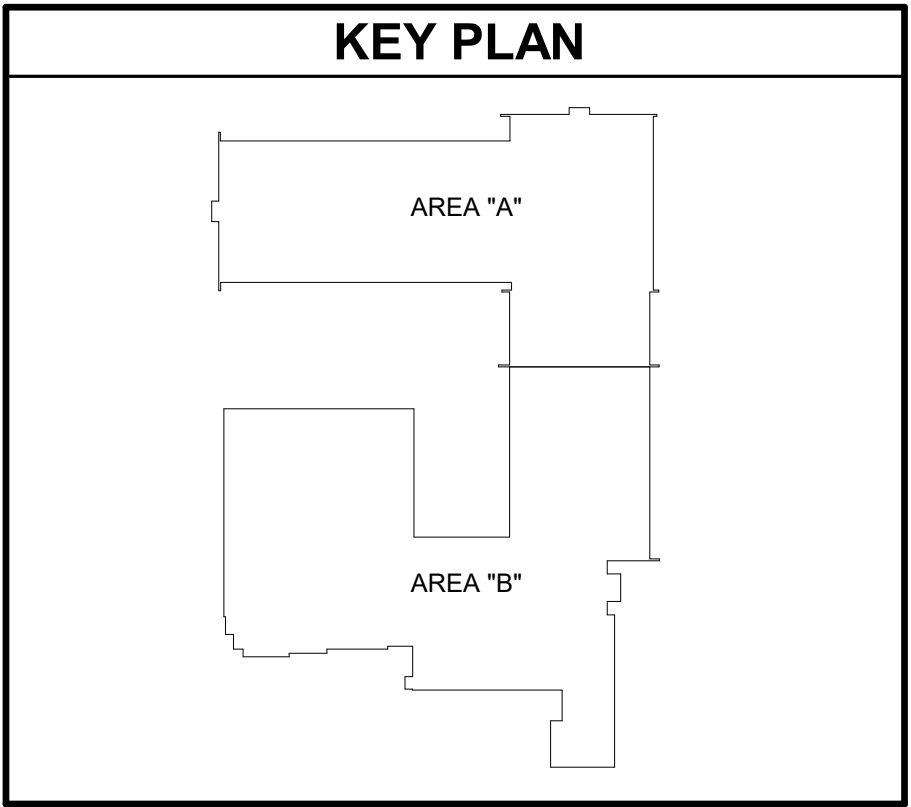
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GENERAL NOTES

A - COORDINATE WITH MECHANICAL PLANS FOR ADDITIONAL DEMOTION OF MECHANICAL SYSTEMS

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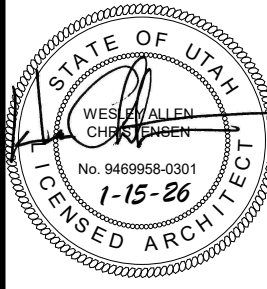


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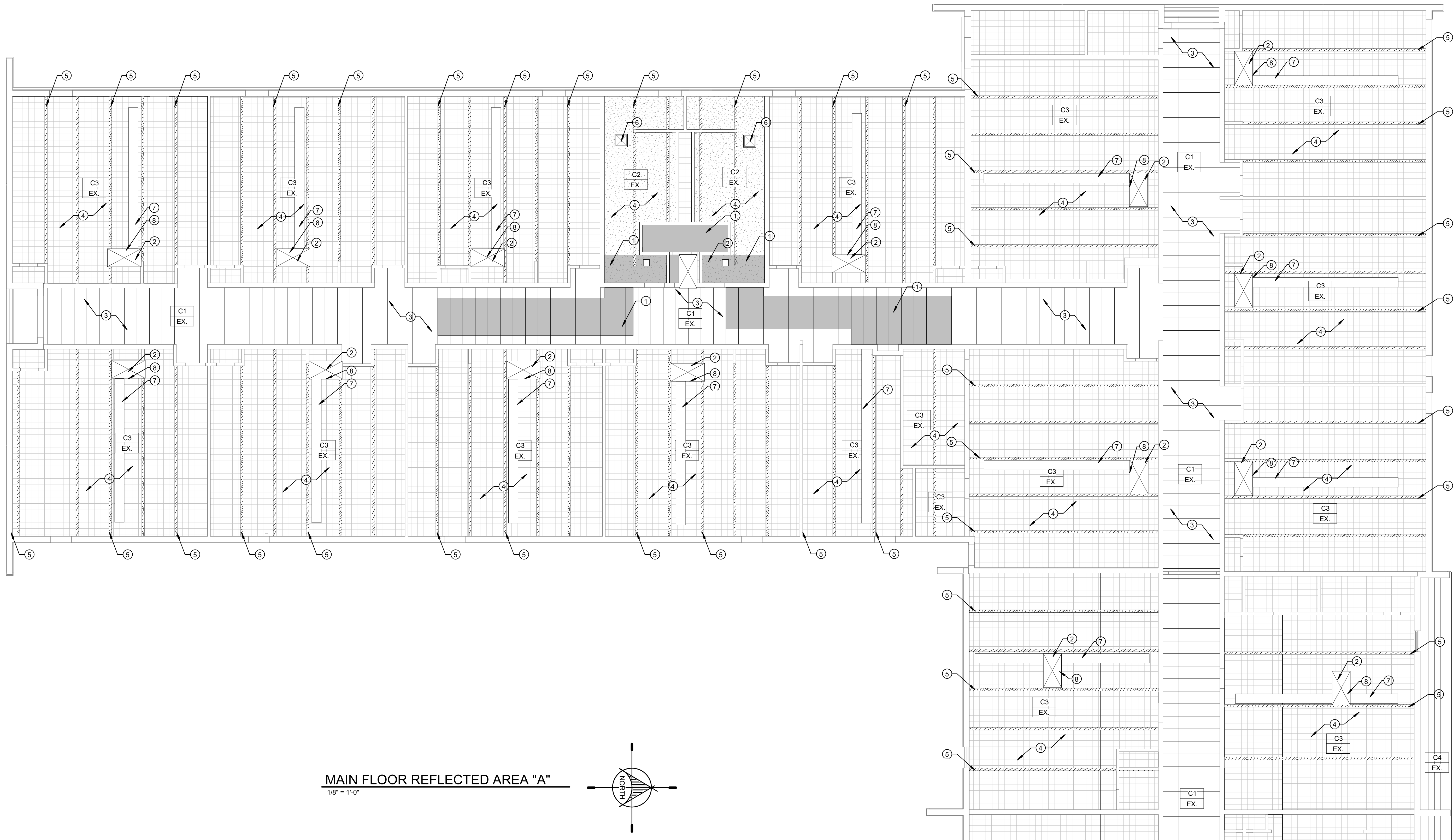
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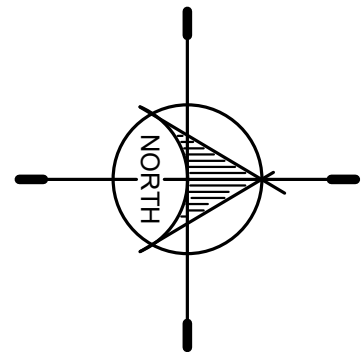
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MAIN FLOOR REFLECTED AREA "A"
1/8" = 1'-0"



SHEET NOTES

- EXISTING CEILING TO BE REMOVED TO ALLOW ACCESS FOR DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR IS TO PRESERVE ALL CEILING ELEMENTS (LIGHT FIXTURES, CEILING TILE, CEILING GRID, ETC.) THAT IS REMOVED TO PROVIDE ACCESS WITHIN THE SHADED REGION. REINSTALL ALL ELEMENTS WHEN WORK ABOVE IS COMPLETED. CONTRACTOR IS TO REPLACE ANY DAMAGED COMPONENTS CAUSED BY CONSTRUCTION.
- APPROXIMATE LOCATION OF NEW MECHANICAL UNIT. COORDIANTE WITH MECHANICAL AND STRUCTURAL PLAN ON EXACT LOCATION AND BRACING - SEE STRCUTRAL DETAILS ON SHEET S2.0.
- CEILING TILE IS TO BE REMOVED AND REINSTALLED AS NEEDED TO ALLOW FOR ANY NEW CONTROL WIRES TO BE INSTALLED. CONTRACTOR IS TO FIX ANY GRID DAMAGED DUE TO CONSTRUCTION.
- EXISTING CONSTRUCTION TO REMAIN. CONTRACTOR TO PATCH, REPAIR, AND CLEAN AS REQUIRED DUE TO DEMOLITION AND NEW CONSTRUCTION.
- EXISTING STRUCTURE TO REMAIN.
- EXISTING SKY LIGHTS TO REMAIN.
- NEW MECHANICAL EQUIPMENT AND DUCT WORK TO BE PAINTED - COLOR SELECTED BY ARCHITECT.
- NEW WOOD STRUCTUTRAL SUPPORTS ARE TO BE STAINED TO MATCH EXISTING BEAMS. -STAIN COLOR TO BE APPROVED BY ARCHITECT.

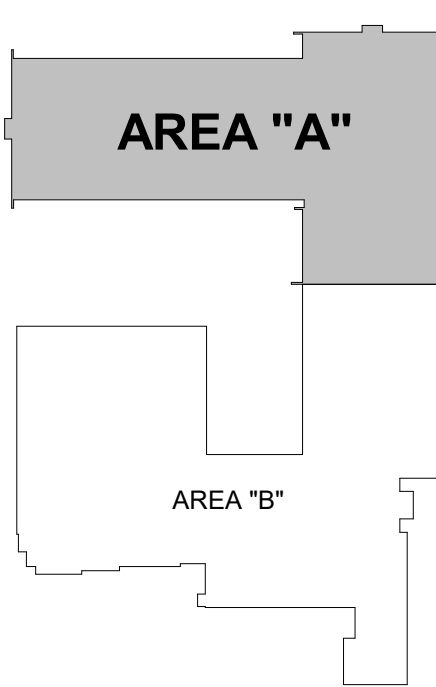
GENERAL NOTES

- A - COORDINATE WITH MECHANICAL PLANS FOR ADDITIONAL DEMOTON OF MECHANICAL SYSTEMS
- B - ADDITIONAL CEILINGS MAY NEED TO BE DEMOLISHED THAT MAY NOT BE NOTED. TO PROVIDE ADDITIONAL ACCESS FOR THE MECHANICAL SYSTEM AND CONTROLS. CONTRACTOR IS TO PLAN ON WORKING ABOVE AND AROUND THE CEILINGS AND TO BE CAREFUL TO PROTECT THE CEILING TILES, THE GRIDS, EXISTING LIGHTING, FIRE ALARM, AND ANY GYPSUM BOARD MATERIAL FROM ANY DAMAGE. THE CONTRACTOR SHALL REPLACE ANY DAMAGED MATERIALS.

CEILING LEGEND

C1	EXISTING 2X4 CEILING GRID.	
C2	EXISTING 5/8" GYP. BOARD (TEXTURED AND PAINTED)	
C3	EXISTING GLUE UP CEILING TILES	
C4	EXISTING SOFFIT	
	EXISTING CEILING HEIGHT (VERIFY ELEVATION)	
	LIGHT FIXTURES	
	MECHANICAL DIFFUSERS	

KEY PLAN





SHEET NOTES

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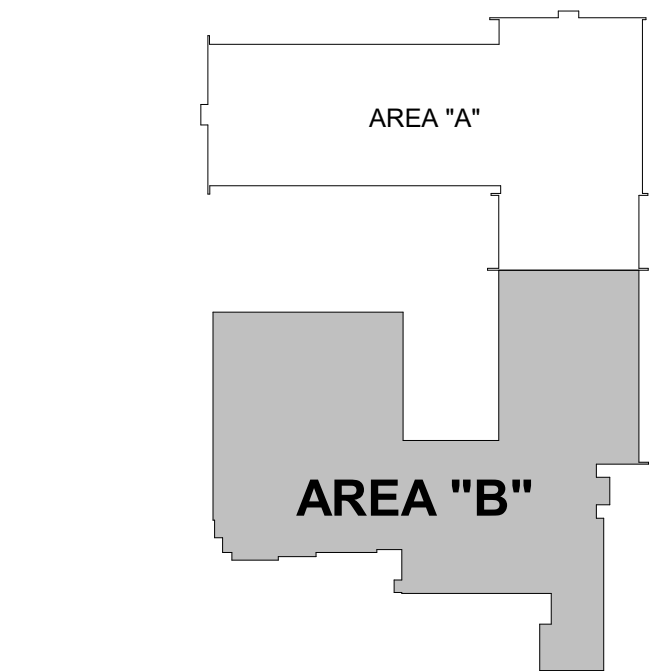
GENERAL NOTES

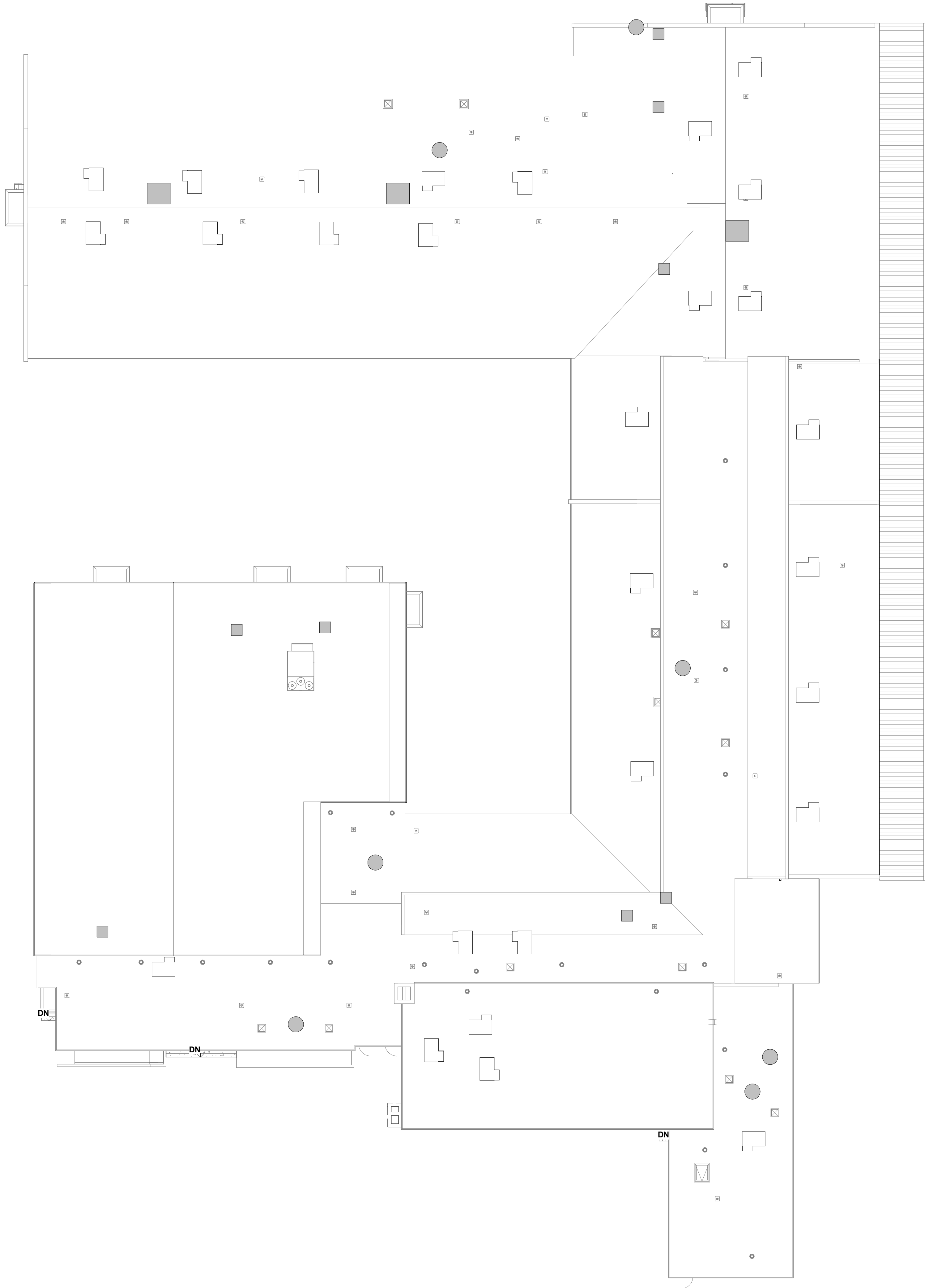
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CEILING LEGEND

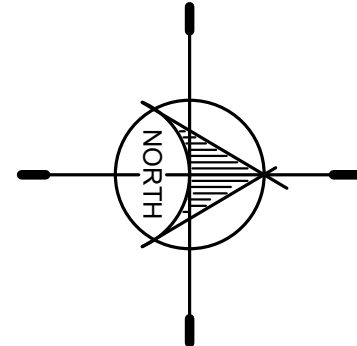
C1	EXISTING 2X4 CEILING GRID.	
C2	EXISTING 5/8" GYP. BOARD (TEXTURED AND PAINTED)	
C3	EXISTING GLUE UP CEILING TILES	
C4	EXISTING SOFFIT	
	EXISTING CEILING HEIGHT (VERIFY ELEVATION)	
	LIGHT FIXTURES	
	MECHANICAL DIFFUSERS	

KEY PLAN





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



GENERAL NOTES

- A - ALL MECHANICAL UNITS AND ROOF PENETARIONS MAY NOT BE SHOWN. PROVIDE FLASHING, CRICKETS, AND REGLETS AT EACH UNIT SHOWN OR NOT. VERIFY ALL EXISTING PENETRATIONS
- B - PROVIDE FLASHING AND ROOFING BOOTS FOR ALL ELECTRICAL, CONDUIT PENETRATIONS THROUGH ROOF - VERIFY ALL EXISTING ELECTRICAL PENETRATIONS
- C - ALL ROOF CRICKETS TO BE SIZED AND SLOPED TO MATCH EXISTING
- D - ALL MEMBRANE ROOFING AREAS TO MATCH EXISTING SLOPE.
- E - ALL MECHANICAL, ROOF HATCH, SKYLIGHT, AND SOLATUBE CURBS TO BE 18" MINIMUM ABOVE ROOF DECK.
- F - CONTRACTOR RESPONSIBLE FOR ANY INTERIOR DAMAGES DUE TO MECHANICAL UPGRADE.
- G - CONTRACTOR IS TO PRESERVE, PROTECT, REPLACE ALL EXISTING CONDITIONS THAT ARE AFFECTED DUE TO CONSTRUCTION
- H - CONTRACTOR IS TO DOCUMENT EXISTING CONDITIONS BEFORE STARTING DEMOLITION.

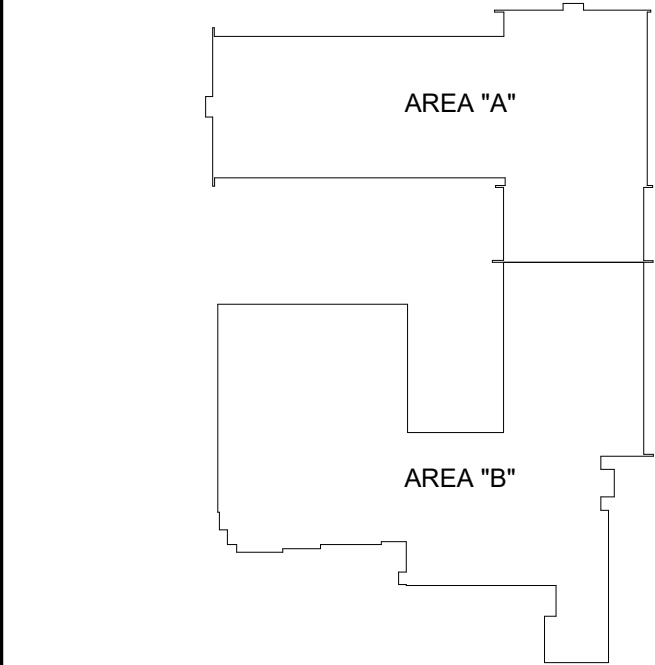
GENERAL DEMOLITION NOTES

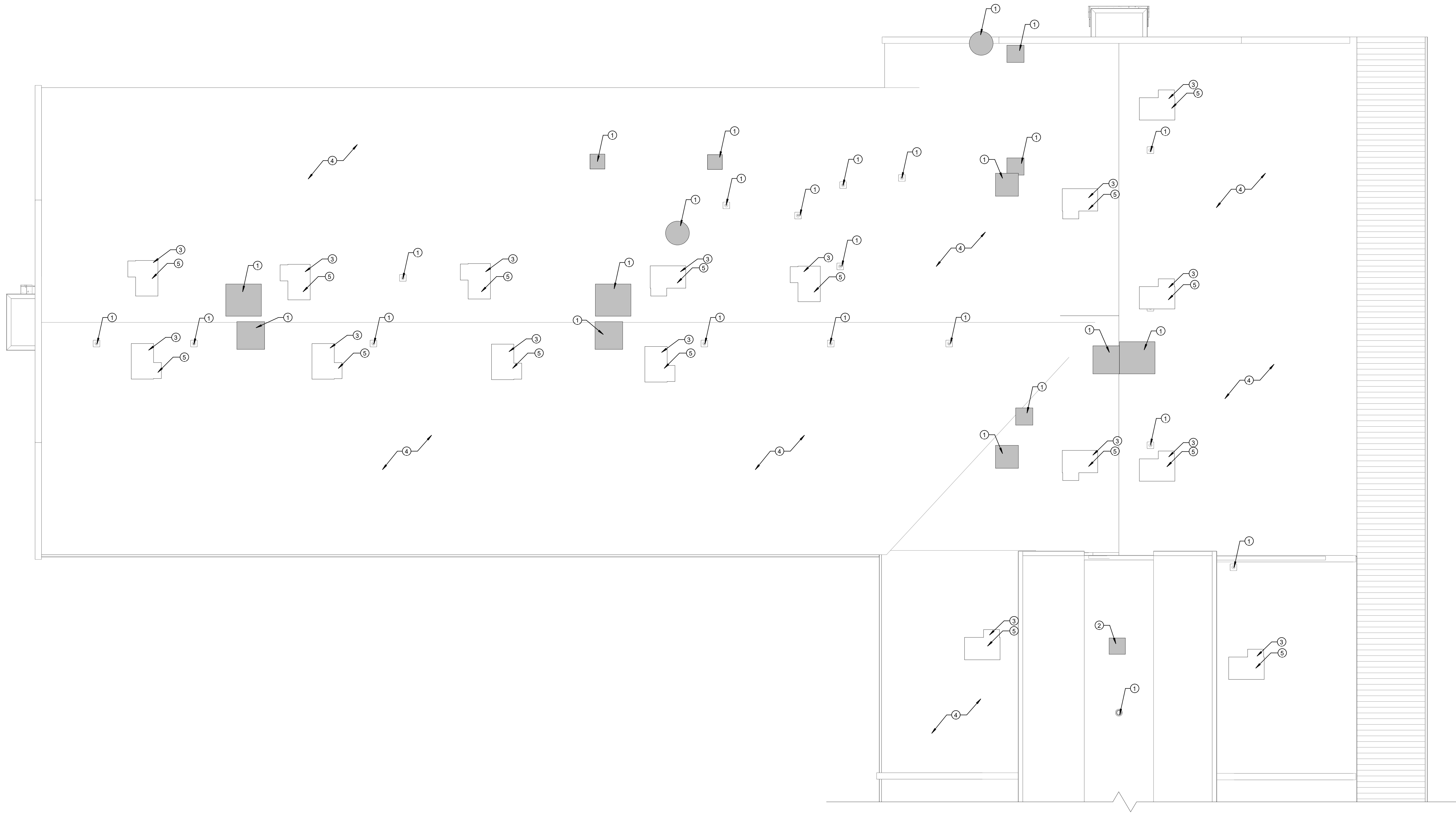
- 1 - CONTRACTOR TO PROVIDE PLYWOOD SHEATHING, INSULATION, AND MEMBRANE FOR WALLS & ROOF TO PROTECT INTERIOR FROM WEATHER DURING DEMOLITION AND CONSTRUCTION.
- 2 - ALL PLUMBING, HVAC, & ELECTRICAL WILL BE RE-ROUTED OR MODIFIED TO ALLOW COMPLETE CONTINUITY OF UTILITY SERVICE FOR SCHOOL OPERATION DURING CONSTRUCTION.
- 3 - STAGING TO BE DETERMINED BY GENERAL CONTRACTOR. (COSTS FOR TEMPORARY STAGING BY CONTRACTOR.)
- 4 - CONSTRUCTION FENCING SEPARATE NEW CONSTRUCTION AND DEMOLITION FROM ALL STUDENT ACTIVITY. (COSTS FOR TEMPORARY CONSTRUCTION FENCING BY CONTRACTOR.)
- 5 - CONSTRUCTION AND DEMOLITION ACCESS TO BE DETERMINED BY GENERAL CONTRACTOR AND OWNER.

ROOFING DEMOLITION NOTE

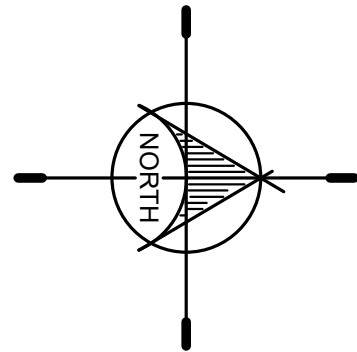
- A - CONTRACTOR TO INCLUDE ANY NEW ROOF DECKING, 6" RIGID INSULATION, CURBING, AND SHEET MEMBRANE ROOFING AT ANY ROOF PENETRATION DUE TO CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND KITCHEN SHEETS FOR ROOF REPAIRS.
- B - CONTRACTOR TO ADD NEW PLYWOOD DECKING, 6" RIGID INSULATION AND ROOF MEMBRANE OVER OPENING CREATED AT CURBS BY REMOVAL OF ANY EXISTING UNITS. REFER TO MECHANICAL DEMOLITION SHEET FOR LOCATIONS.

KEY PLAN





ROOF PLAN "A"
1/8" = 1'-0"



SHEET NOTES

- EXISTING MECHANICAL UNITS, VENTS, PIPING, ETC. COORDINATE WITH MECHANICAL DEMOLITION PLANS. IF COMPONENT IS TO BE REMOVED CONTRACTOR IS TO PATCH AND REPAIR THE ROOF AND DECKING. IF THE COMPONENT IS NOT TO BE REMOVED PRESERVE AND PROTECT DURING CONSTRUCTION.
- EXISTING SKY LIGHTS TO REMAIN.
- APPROXIMATE LOCATION OF NEW MECHANICAL UNIT. REMOVE EXISTING ROOF FOR NEW MECHANICAL UNIT CURB. PATCH AND REPAIR ALL ADDITIONAL PENETRATIONS. COORDINATE WITH MECHANICAL PLANS.
- EXISTING ROOF MEMBRANE AND INSULATION TO REMAIN - PATCH AND REPAIR DUE TO CONSTRUCTION.
- NEW MECHANICAL CURBING AND FLASHING AT ALL NEW UNITS TO PROVIDE PROPER DRAINAGE SEE MECHANICAL DETAIL ON SHEET M6.1.

GENERAL NOTES

- A - ALL MECHANICAL UNITS AND ROOF PENETRATIONS MAY NOT BE SHOWN. PROVIDE FLASHING, CRICKETS, AND REGLETS AT EACH UNIT SHOWN OR NOT. VERIFY ALL EXISTING PENETRATIONS
- B - PROVIDE FLASHING AND ROOFING BOOTS FOR ALL ELECTRICAL, CONDUIT PENETRATIONS THROUGH ROOF - VERIFY ALL EXISTING ELECTRICAL PENETRATIONS
- C - ALL ROOF CRICKETS TO BE SIZED AND SLOPED TO MATCH EXISTING
- D - ALL MEMBRANE ROOFING AREAS TO MATCH EXISTING SLOPE.
- E - ALL MECHANICAL, ROOF HATCH, SKYLIGHT, AND SOLATUBE CURBS TO BE 18" MINIMUM ABOVE ROOF DECK.
- F - CONTRACTOR RESPONSIBLE FOR ANY INTERIOR DAMAGES DUE TO MECHANICAL UPGRADE.
- G - CONTRACTOR IS TO PRESERVE, PROTECT, REPLACE ALL EXISTING CONDITIONS THAT ARE AFFECTED DUE TO CONSTRUCTION
- H - CONTRACTOR IS TO DOCUMENT EXISTING CONDITIONS BEFORE STARTING DEMOLITION.

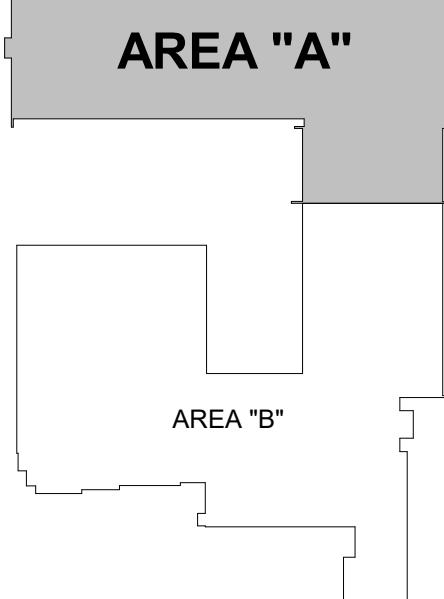
GENERAL DEMOLITION NOTES

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- 2 - ALL PLUMBING, HVAC, & ELECTRICAL WILL BE RE-ROUTED OR MODIFIED TO ALLOW COMPLETE CONTINUITY OF UTILITY SERVICE FOR SCHOOL OPERATION DURING CONSTRUCTION.
- 3 - STAGING TO BE DETERMINED BY GENERAL CONTRACTOR. (COSTS FOR TEMPORARY STAGING BY CONTRACTOR.)
- 4 - CONSTRUCTION FENCING SEPARATE NEW CONSTRUCTION AND DEMOLITION FROM ALL STUDENT ACTIVITY. (COSTS FOR TEMPORARY CONSTRUCTION FENCING BY CONTRACTOR.)
- 5 - CONSTRUCTION AND DEMOLITION ACCESS TO BE DETERMINED BY GENERAL CONTRACTOR AND OWNER.

ROOFING DEMOLITION NOTE

- A - CONTRACTOR TO INCLUDE ANY NEW ROOF DECKING, 6" RIGID INSULATION, CURBING, AND SHEET MEMBRANE ROOFING AT ANY ROOF PENETRATION DUE TO CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND KITCHEN SHEETS FOR ROOF REPAIRS.
- B - CONTRACTOR TO ADD NEW PLYWOOD DECKING, 6" RIGID INSULATION AND ROOF MEMBRANE OVER OPENING CREATED AT CURBS BY REMOVAL OF ANY EXISTING UNITS. REFER TO MECHANICAL DEMOLITION SHEET FOR LOCATIONS.

KEY PLAN





SHEET NOTES

- EXISTING MECHANICAL UNITS, VENTS, PIPING, ETC. COORDINATE WITH MECHANICAL DEMOLITION PLANS. IF COMPONENT IS TO BE REMOVED CONTRACTOR IS TO PATCH AND REPAIR THE ROOF AND DECKING. IF THE COMPONENT IS NOT TO BE REMOVED PRESERVE AND PROTECT DURING CONSTRUCTION.
- EXISTING SKYLIGHT TO REMAIN (TYP.)
- EXISTING ROOF DRAIN TO REMAIN (TYP.)
- EXISTING ROOF ACCESS HATCH TO REMAIN.
- EXISTING ACCESS LADDER TO REMAIN.
- APPROXIMATE LOCATION OF NEW MECHANICAL UNIT. REMOVE EXISTING ROOF FOR NEW MECHANICAL UNIT CURB. PATCH AND REPAIR ALL ADDITIONAL PENETRATIONS. COORDINATE WITH MECHANICAL PLANS.
- NEW MECHANICAL CURBING AND FLASHING AT ALL NEW UNITS TO PROVIDE PROPER DRAINAGE SEE MECHANICAL DETAIL ON SHEET M6.1.
- EXISTING ROOF MEMBRANE AND INSULATION TO REMAIN - PATCH AND REPAIR DUE TO CONSTRUCTION.

GENERAL NOTES

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- B - PROVIDE FLASHING AND ROOFING BOOTS FOR ALL ELECTRICAL, CONDUIT PENETRATIONS THROUGH ROOF - VERIFY ALL EXISTING ELECTRICAL PENETRATIONS
- C - ALL ROOF CRICKETS TO BE SIZED AND SLOPED TO MATCH EXISTING
- D - ALL MEMBRANE ROOFING AREAS TO MATCH EXISTING SLOPE.
- E - ALL MECHANICAL, ROOF HATCH, SKYLIGHT, AND SOLATUBE CURBS TO BE 18" MINIMUM ABOVE ROOF DECK.
- F - CONTRACTOR RESPONSIBLE FOR ANY INTERIOR DAMAGES DUE TO MECHANICAL UPGRADE.
- G - CONTRACTOR IS TO PRESERVE, PROTECT, REPLACE ALL EXISTING CONDITIONS THAT ARE AFFECTED DUE TO CONSTRUCTION
- H - CONTRACTOR IS TO DOCUMENT EXISTING CONDITIONS BEFORE STARTING DEMOLITION.

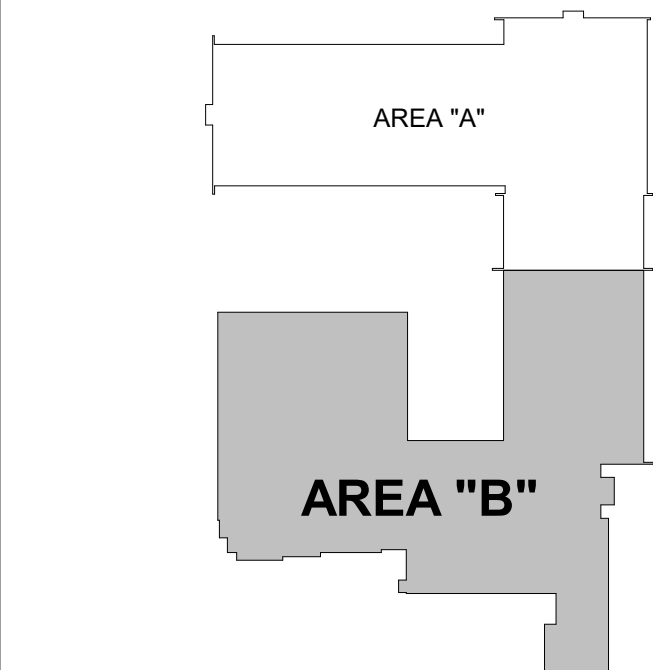
GENERAL DEMOLITION NOTES

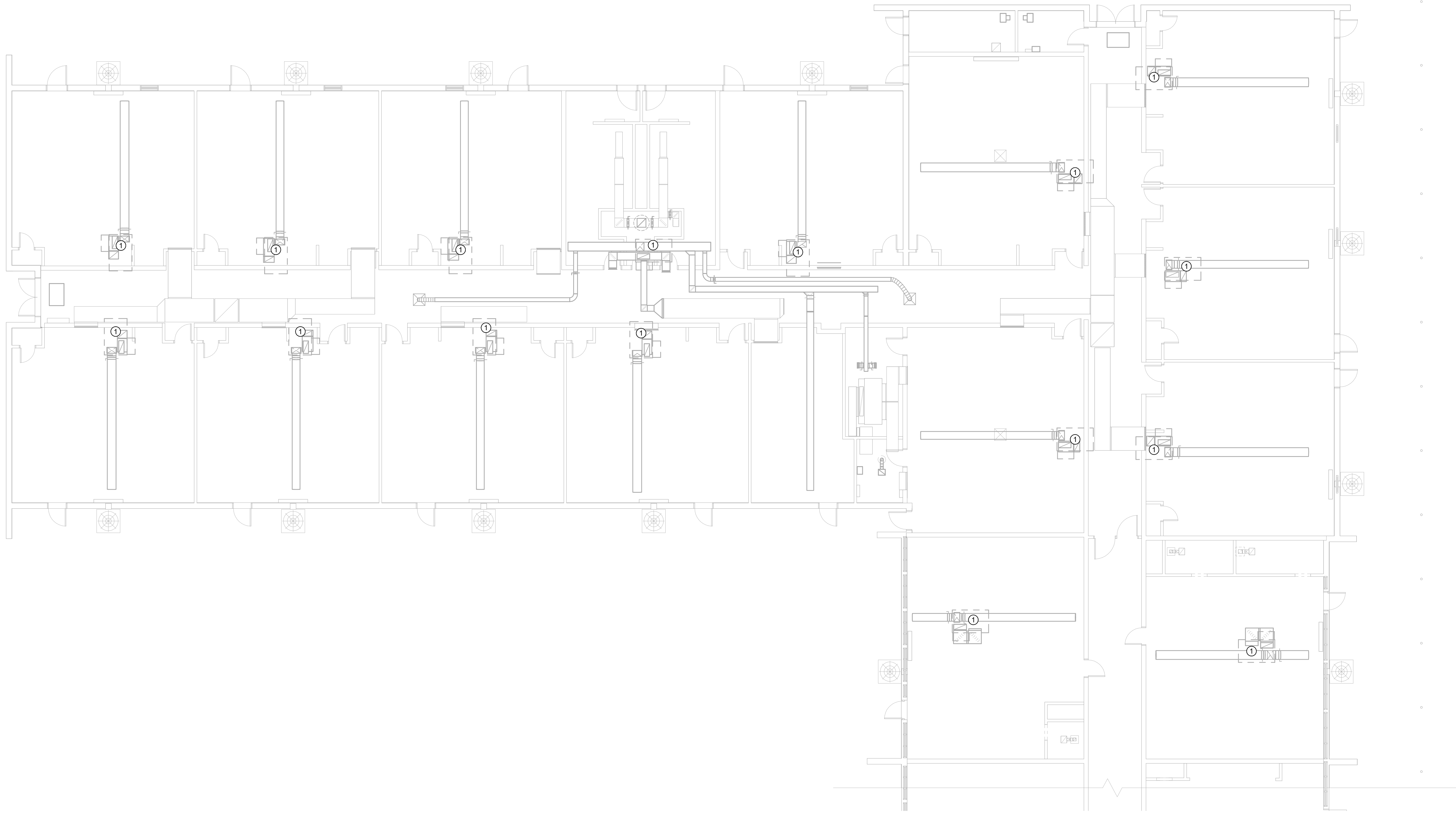
- 1 - CONTRACTOR TO PROVIDE PLYWOOD SHEATHING, INSULATION, AND MEMBRANE FOR WALLS & ROOF TO PROTECT INTERIOR FROM WEATHER DURING DEMOLITION AND CONSTRUCTION.
- 2 - ALL PLUMBING, HVAC, & ELECTRICAL WILL BE RE-ROUTED OR MODIFIED TO ALLOW COMPLETE CONTINUITY OF UTILITY SERVICE FOR SCHOOL OPERATION DURING CONSTRUCTION.
- 3 - STAGING TO BE DETERMINED BY GENERAL CONTRACTOR. (COSTS FOR TEMPORARY STAGING BY CONTRACTOR.)
- 4 - CONSTRUCTION FENCING SEPARATE NEW CONSTRUCTION AND DEMOLITION FROM ALL STUDENT ACTIVITY. (COSTS FOR TEMPORARY CONSTRUCTION FENCING BY CONTRACTOR.)
- 5 - CONSTRUCTION AND DEMOLITION ACCESS TO BE DETERMINED BY GENERAL CONTRACTOR AND OWNER.

ROOFING DEMOLITION NOTE

- A - CONTRACTOR TO INCLUDE ANY NEW ROOF DECKING, 6" RIGID INSULATION, CURBING, AND SHEET MEMBRANE ROOFING AT ANY ROOF PENETRATION DUE TO CONSTRUCTION. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND KITCHEN SHEETS FOR ROOF REPAIRS.
- B - CONTRACTOR TO ADD NEW PLYWOOD DECKING, 6" RIGID INSULATION AND ROOF MEMBRANE OVER OPENING CREATED AT CURBS BY REMOVAL OF ANY EXISTING UNITS. REFER TO MECHANICAL DEMOLITION SHEET FOR LOCATIONS.

KEY PLAN

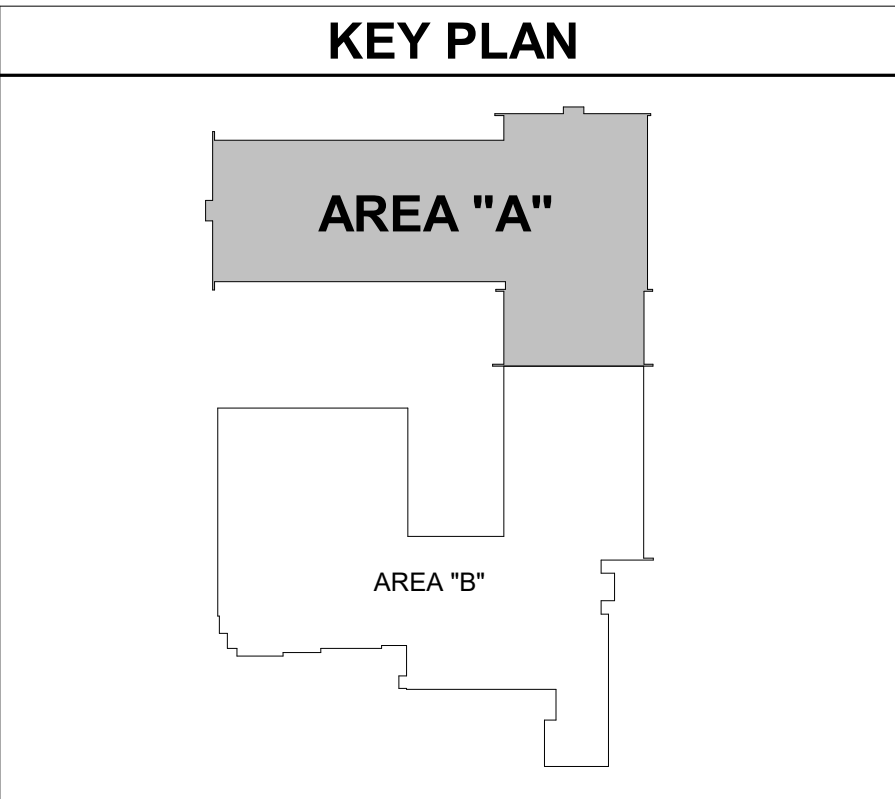




1 FLOOR PLAN AREA 'A'
1/8" = 1'-0"

SHEET NOTES

- 1 SEE DETAILS ON S2.0 FOR REQUIRED FRAMING AROUND
NEW DUCT OPENINGS THROUGH EXISTING ROOF. SEE
MECHANICAL PLANS FOR EXACT NUMBER OF NEW UNITS
AND REQUIRED DUCT CONFIGURATIONS



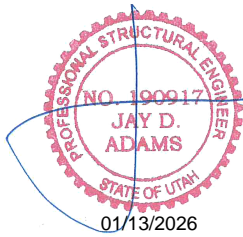
PROJECT TITLE

EMERY SCHOOL DISTRICT
HUNTINGTON ELEMENTARY SCHOOL
MECHANICAL UPGRADE

HUNTINGTON, UT 84528

DRAWN BY: J.K.P.
CHECKED BY: J.D.A.
DATE: JAN. 15, 2026
PROJECT #: 7611125

S1.1A



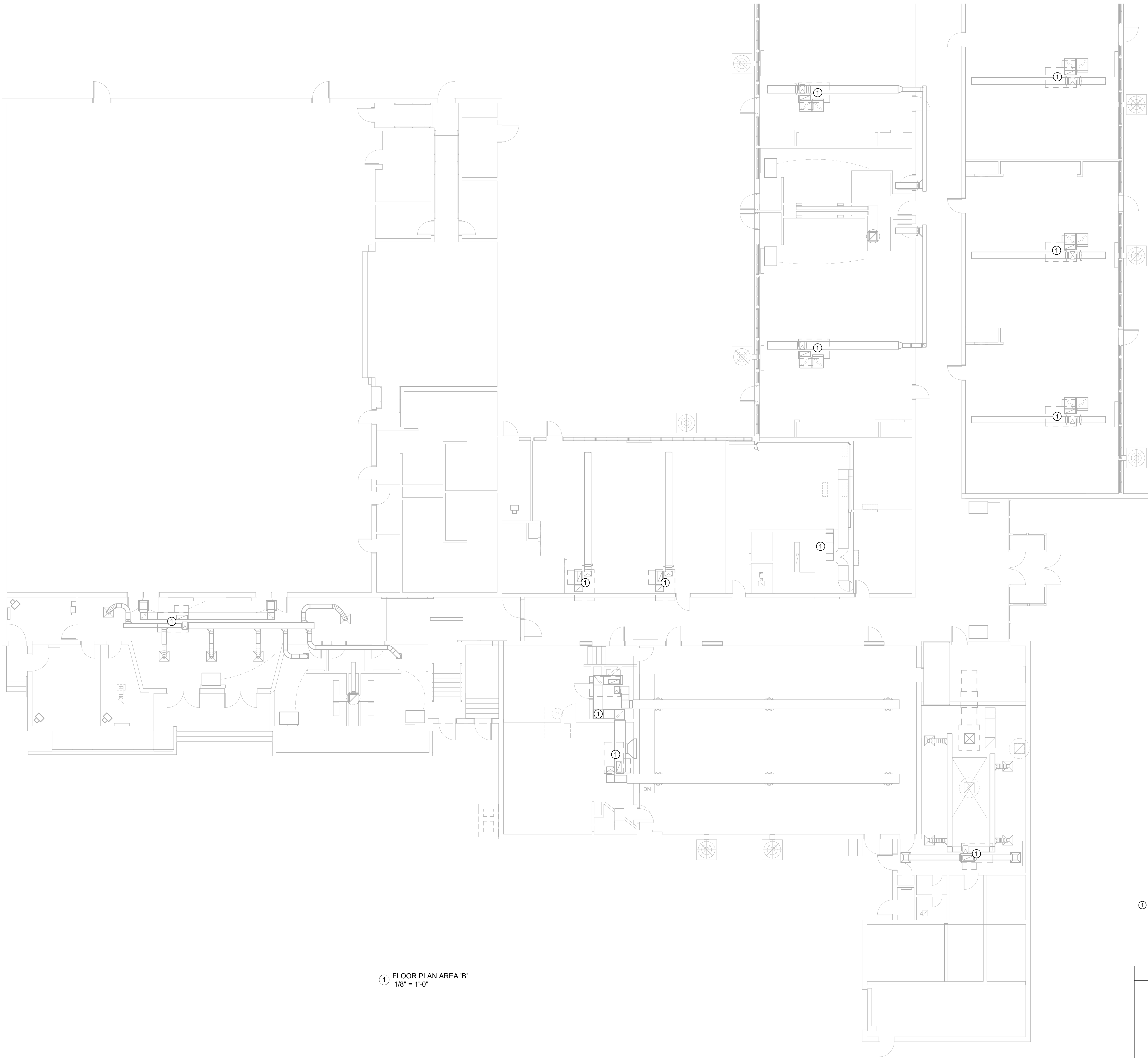
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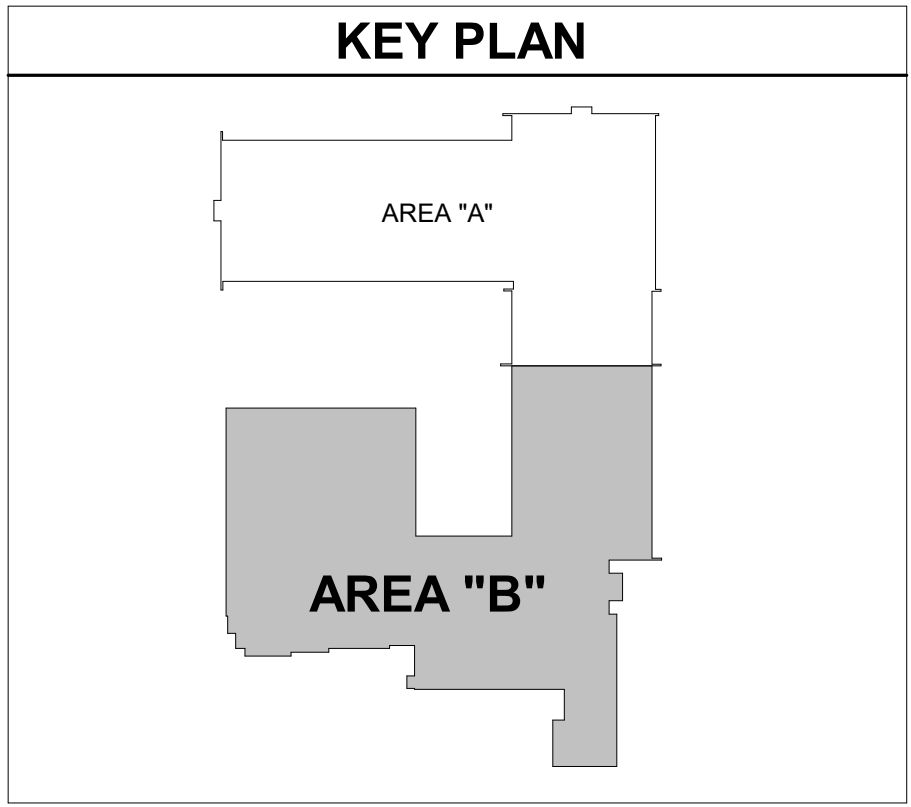


**DYNAMIC
STRUCTURES**
744 E 400 N, SUITE 110, SALT LAKE CITY, UT 84143
(801) 455-9900



1 FLOOR PLAN AREA 'B'
1/8" = 1'-0"

- SHEET NOTES**
- 1 SEE DETAILS ON S2.0 FOR REQUIRED FRAMING AROUND NEW DUCT OPENINGS THROUGH EXISTING ROOF. SEE MECHANICAL PLANS FOR EXACT NUMBER OF NEW UNITS AND REQUIRED DUCT CONFIGURATIONS



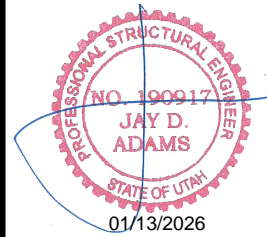
PROJECT TITLE

EMERY SCHOOL DISTRICT
HUNTINGTON ELEMENTARY SCHOOL
MECHANICAL UPGRADE

HUNTINGTON, UT 84528

DRAWN BY: Author
CHECKED BY: Checker
DATE: JAN. 15, 2026
PROJECT #: 7611125

S1.1B



REVISIONS:

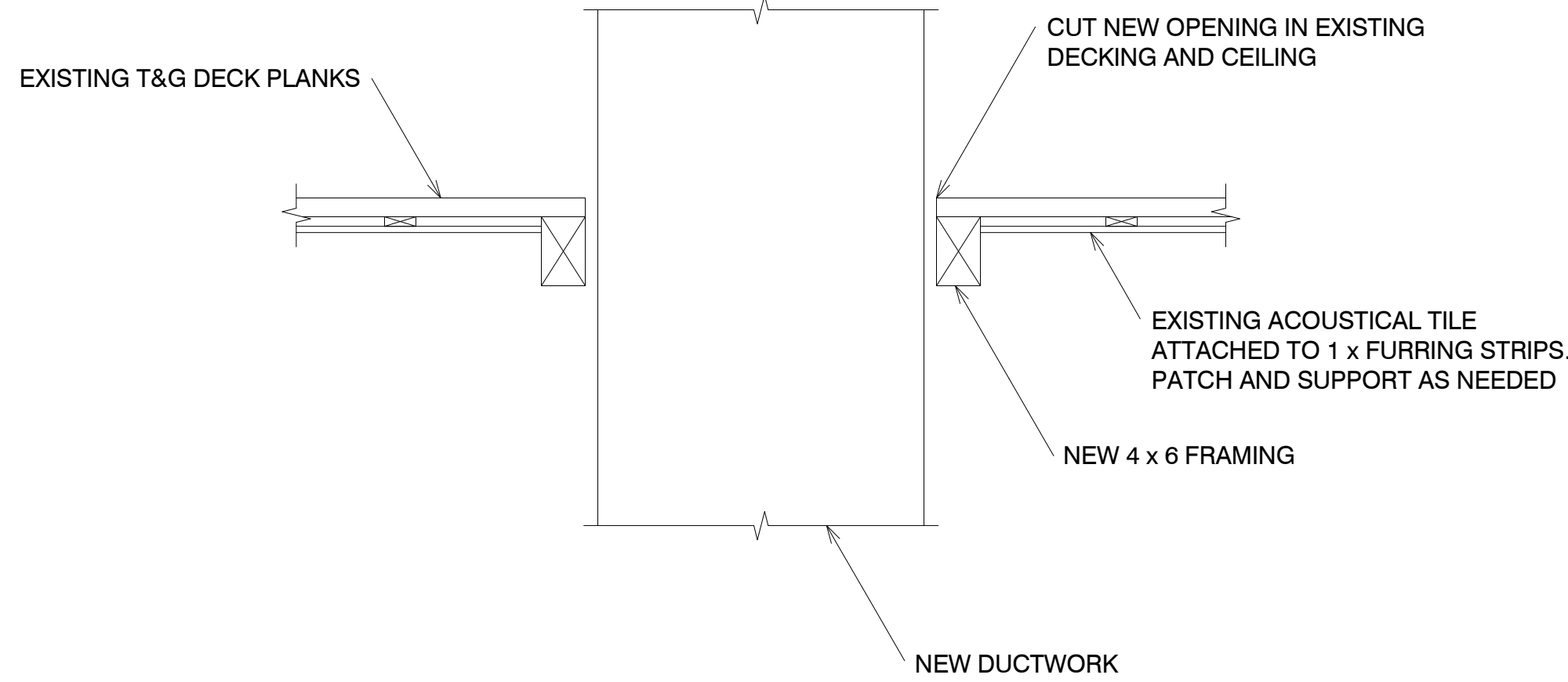


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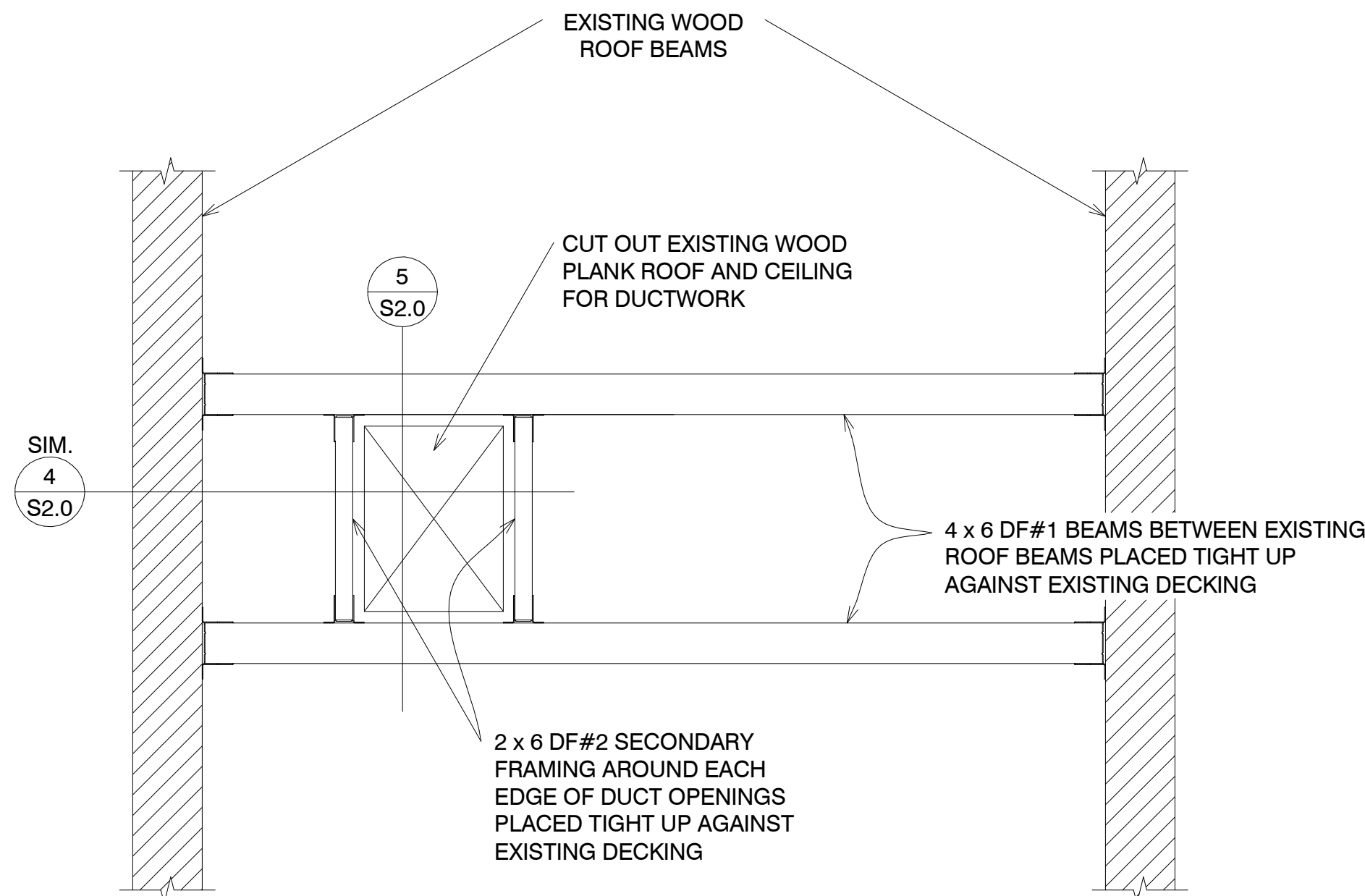
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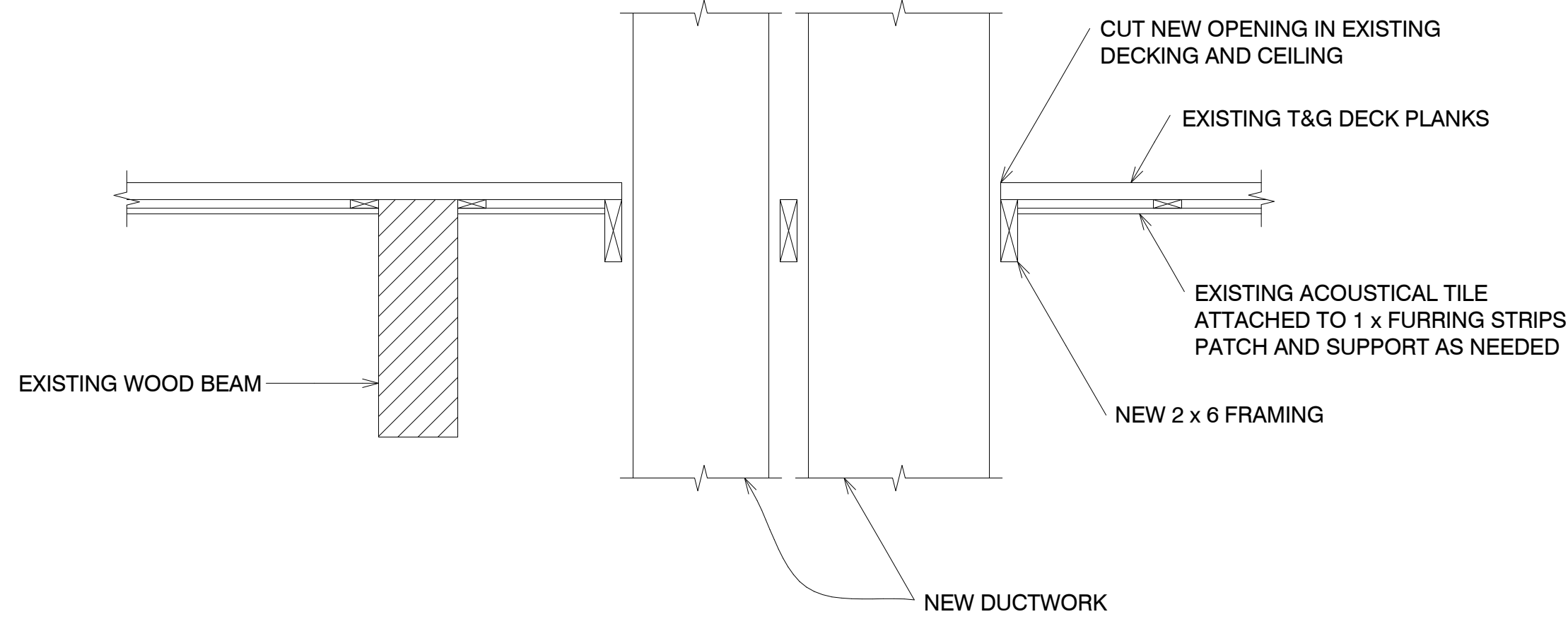
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S2.0
CONSTRUCTION DETAIL
NO SCALE

FOR NEW DUCT OPENINGS THROUGH AREAS WITH CONVENTIONAL RAFTER FRAMING, USE SAME DETAILS BUT REPLACE FRAMING MEMBERS WITH NEW 2 X DIMENSIONAL RAFTERS MATCHING EXISTING RAFTER DEPTH. PROVIDE SIMPSON LU210 EACH END OF EACH NEW MEMBER

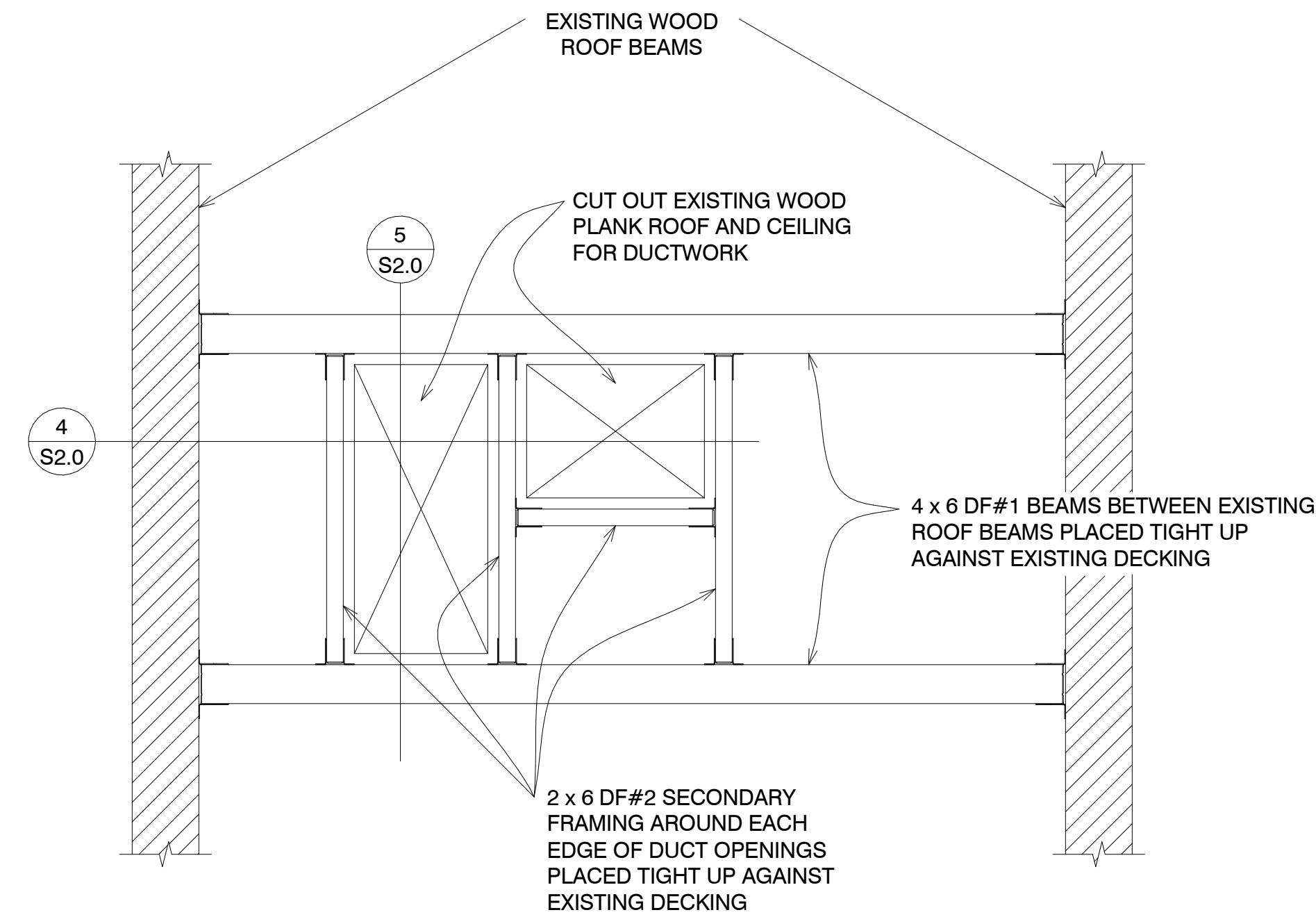


- NOTES:
1. PROVIDE SIMPSON HU46 EACH END OF EACH 4 x 6. PAINT BLACK.
 2. PROVIDE SIMPSON HU26 EACH END OF EACH 2 x 6. PAINT BLACK.

3
S2.0
CONSTRUCTION DETAIL
NO SCALE

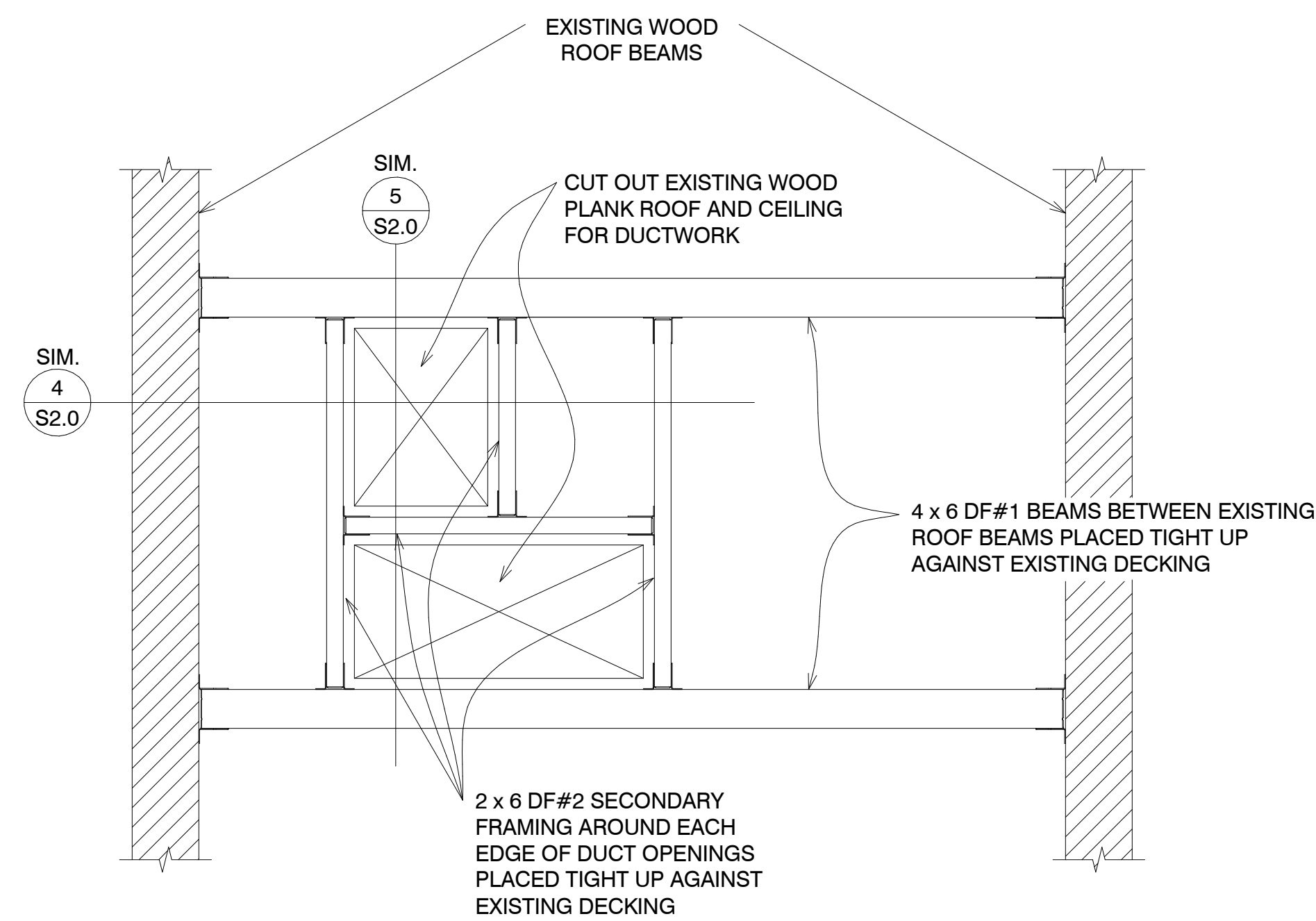


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S2.0
CONSTRUCTION DETAIL
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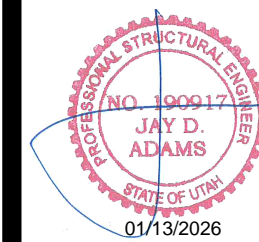
- NOTES:
1. PROVIDE SIMPSON HU46 EACH END OF EACH 4 x 6. PAINT BLACK.
 2. PROVIDE SIMPSON HU26 EACH END OF EACH 2 x 6. PAINT BLACK.

1
S2.0
CONSTRUCTION DETAIL
NO SCALE



- NOTES:
1. PROVIDE SIMPSON HU46 EACH END OF EACH 4 x 6. PAINT BLACK.
 2. PROVIDE SIMPSON HU26 EACH END OF EACH 2 x 6. PAINT BLACK.

2
S2.0
CONSTRUCTION DETAIL
NO SCALE



REVISIONS:

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HUNTINGTON ELEMENTARY SCHOOL
MECHANICAL UPGRADE
HUNTINGTON, UT 84528

PROJECT TITLE
HUNTINGTON ELEMENTARY SCHOOL
MECHANICAL UPGRADE

DRAWN BY: J.K.P.
CHECKED BY: J.D.A.
DATE: JAN. 15, 2026
PROJECT #: 7611125

S2.0

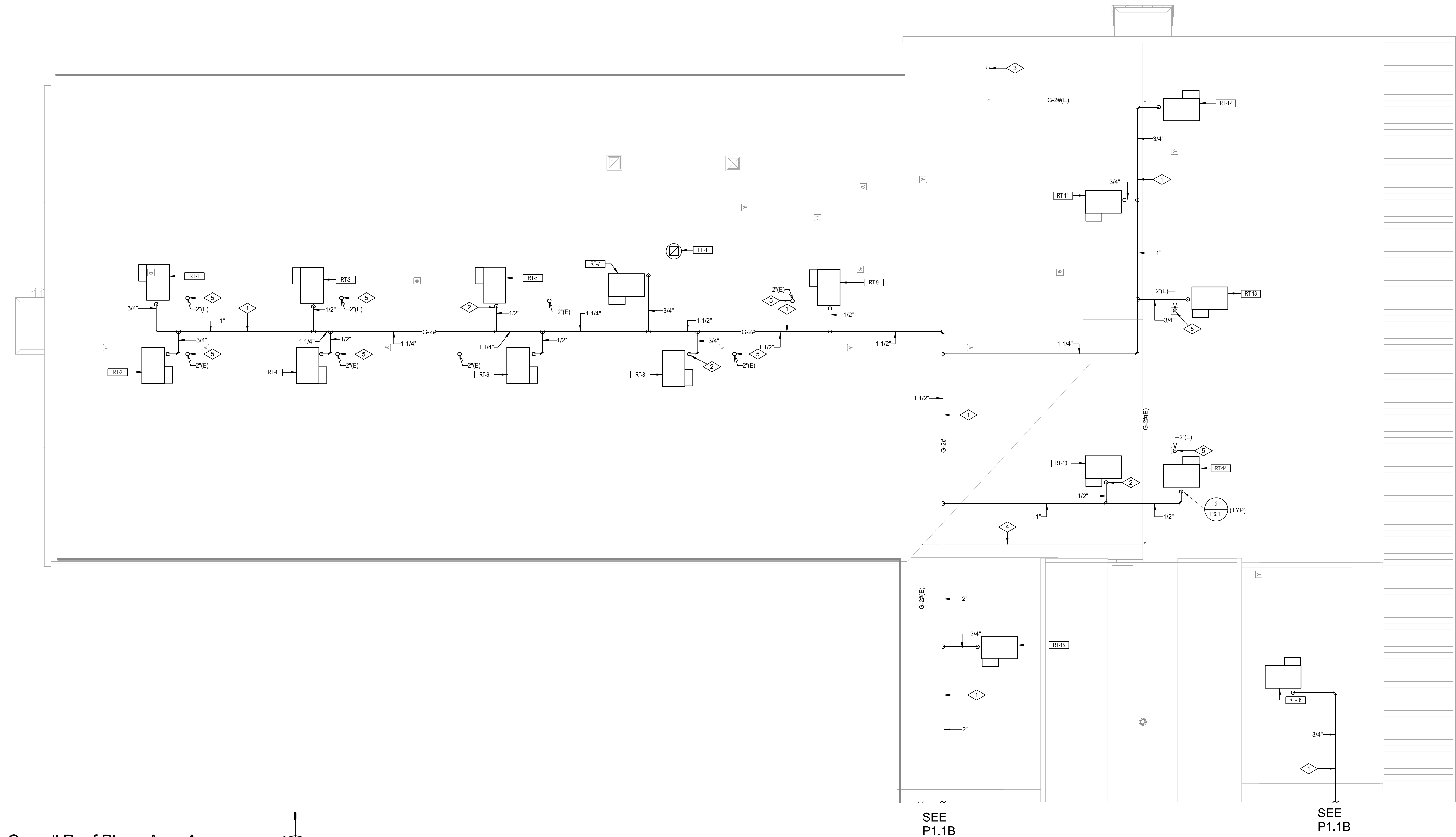
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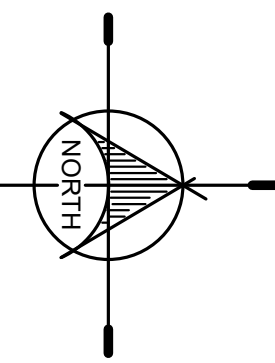
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Overall Roof Plan - Area A

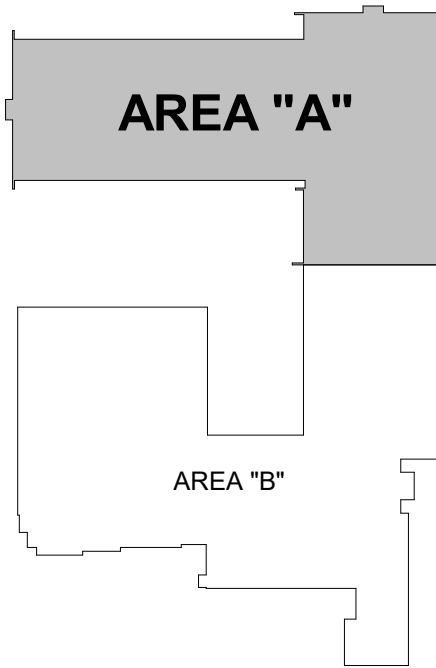
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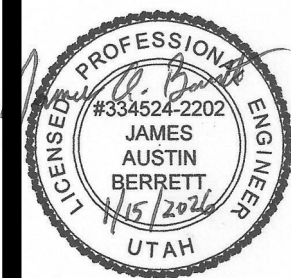
REFERENCE NOTES

- 1 GAS PIPE TO RUN ON ROOF AND BE SUPPORTED ON STANDS FOLLOWING 2021 IFGC 415.1. SEE DETAIL 3/P6.1 (TYPICAL).
- 2 TYPICAL GAS CONNECTION TO EQUIPMENT. SEE DETAIL 2/P6.1 (TYPICAL).
- 3 EXISTING GAS PIPING DROPS TO SERVE EXISTING WATER HEATER.
- 4 EXISTING PIPING ON ROOF TO REMAIN.
- 5 ADD AIR ADMITTANCE VALVE WITH UV RESISTANT CAP TO EXISTING PLUMBING VENT, FIELD VERIFY VENT SIZE.

KEY PLAN



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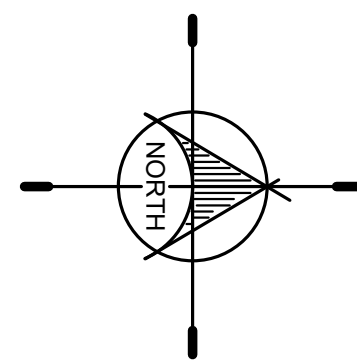
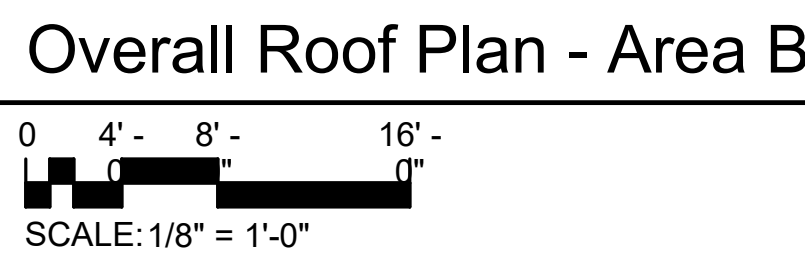
REVISIONS:

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MECHANICAL UPGRADE HUNTINGTON, UT 84528

PROJECT TITLE
HUNTINGTON ELEMENTARY SCHOOL
MECHANICAL UPGRADE HUNTINGTON, UT 84528
PROJECT # 176525

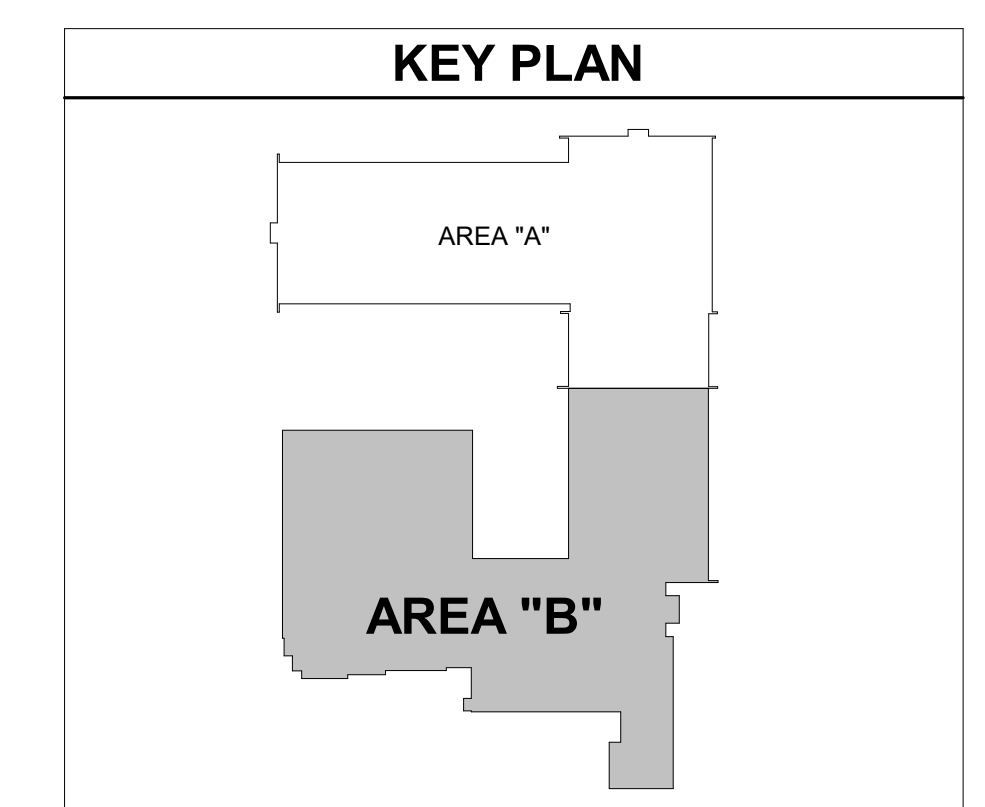
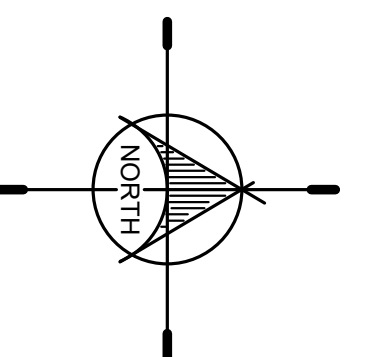
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P1.1A



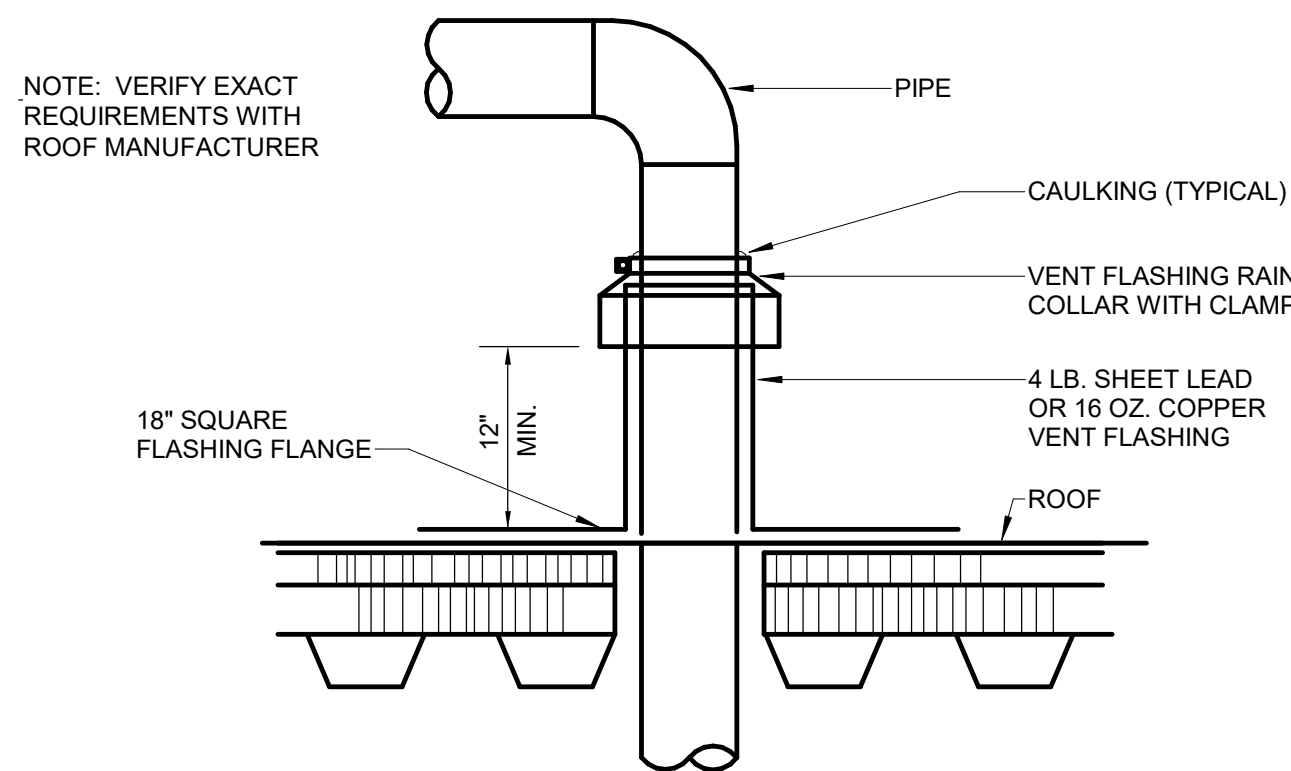
The diagram shows a floor plan with various rooms and corridors. A dashed line with arrows indicates a proposed evacuation route. The route starts at a point labeled 'SLOPE' with a downward arrow. It then proceeds through a series of points: 1 (a circle labeled 'M6.2'), 2 (a diamond), 3 (a circle labeled 'M6.2'), 4 (a diamond), 5 (a circle labeled 'M6.2'), 6 (a diamond), 7 (a circle labeled 'M6.2'), 8 (a diamond), and 9 (a circle labeled 'M6.2'). A 'MAIL' room is also shown, with an arrow pointing to it from point 6. The route is marked with a dashed line and arrows, indicating the direction of travel.

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



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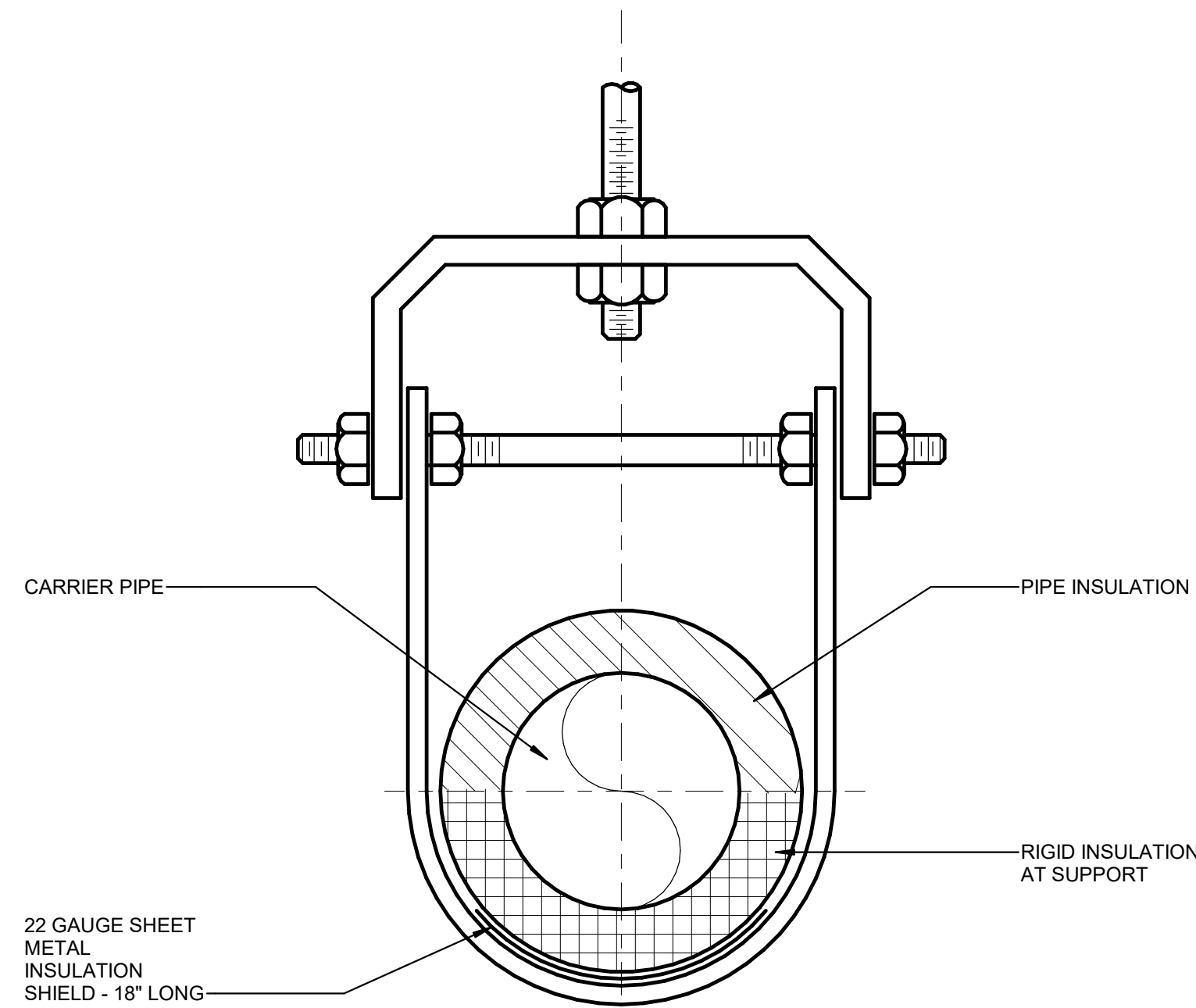
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PIPE THRU ROOF PENETRATION DETAIL

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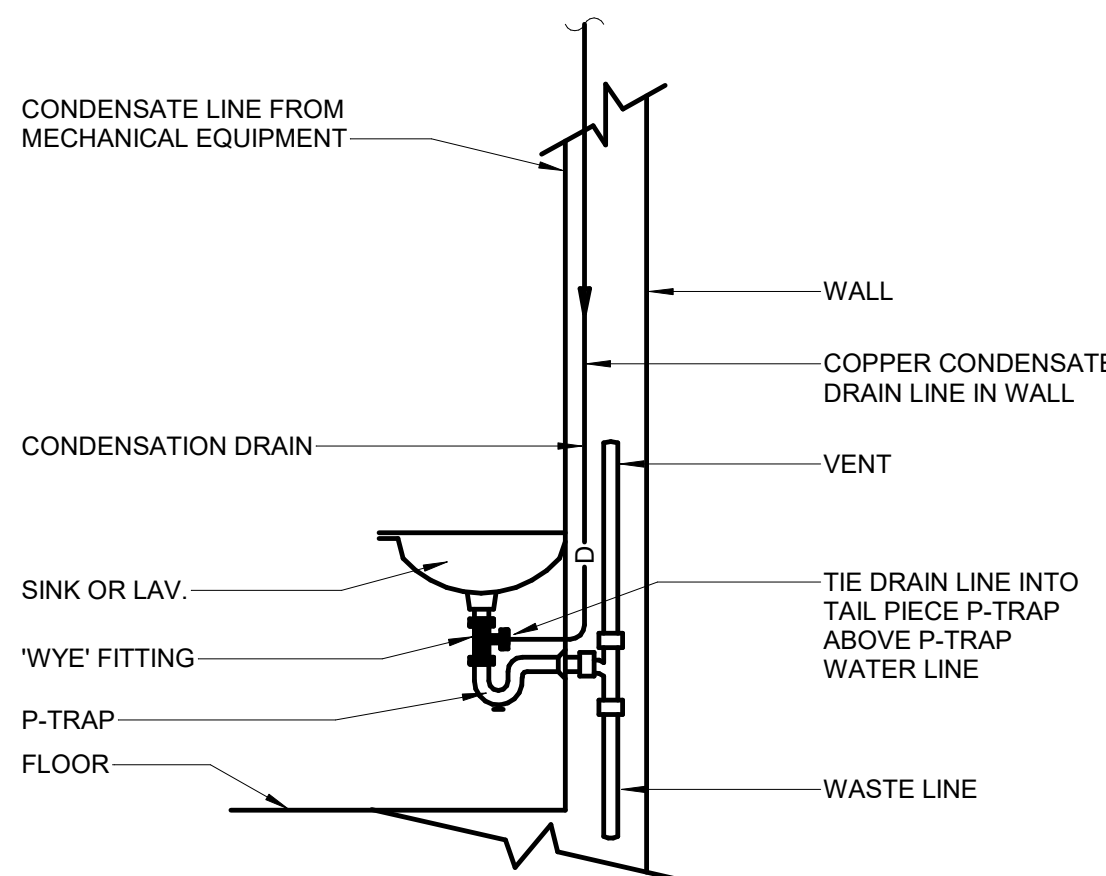
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P6.1



PIPE HANGER DETAIL

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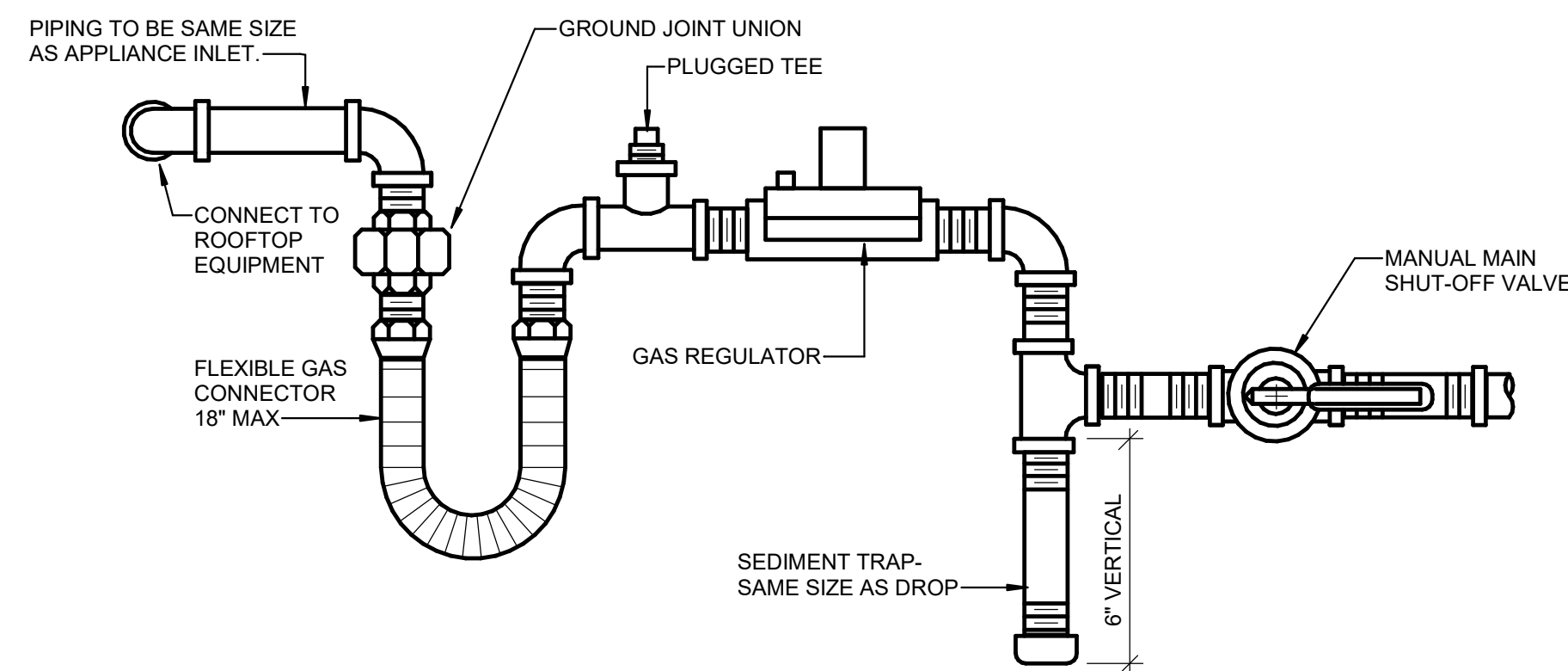
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P6.1



CONDENSATE DRAIN DETAIL

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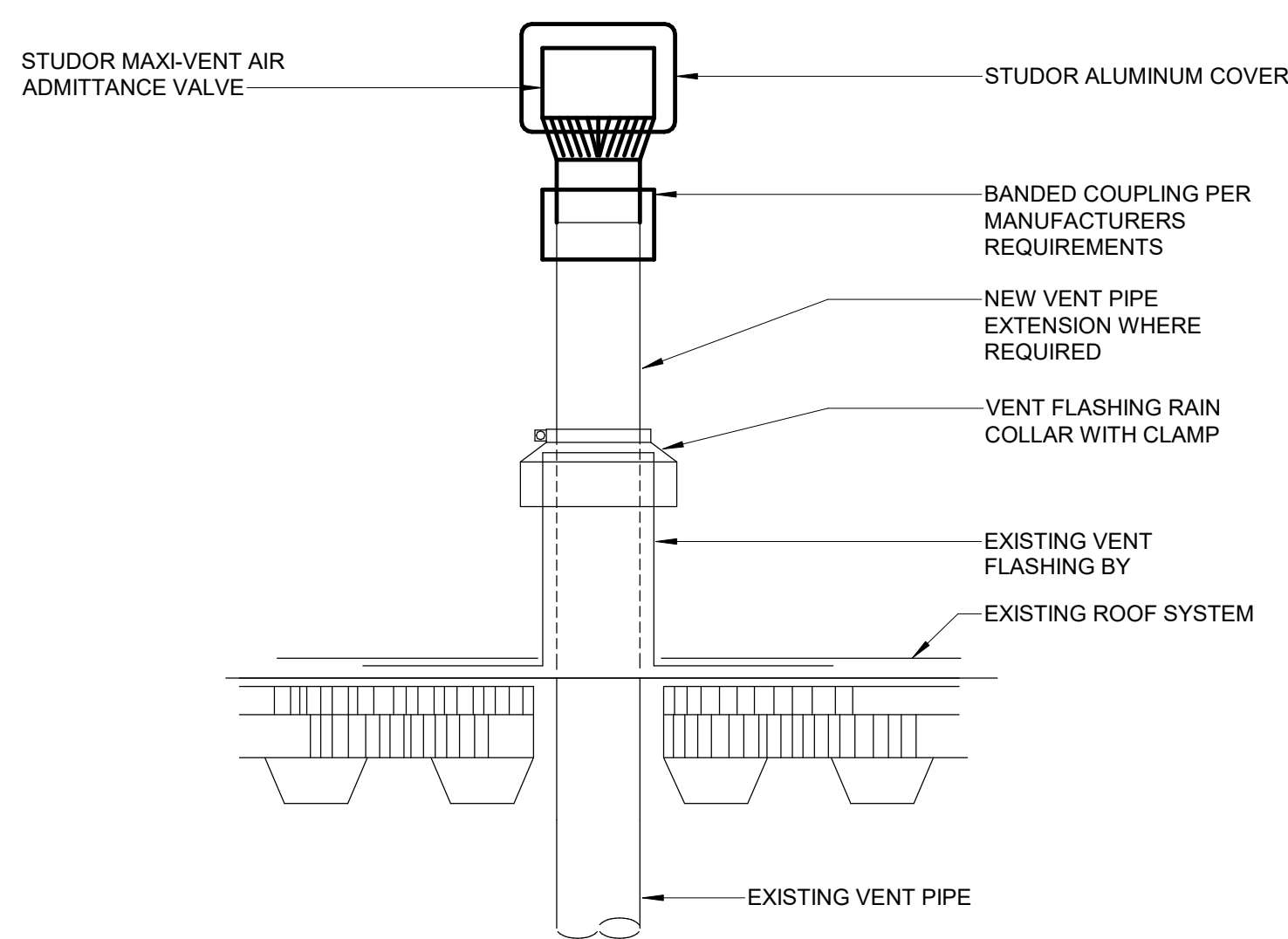
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P6.1



ROOFTOP GAS LINE CONNECTION DETAIL

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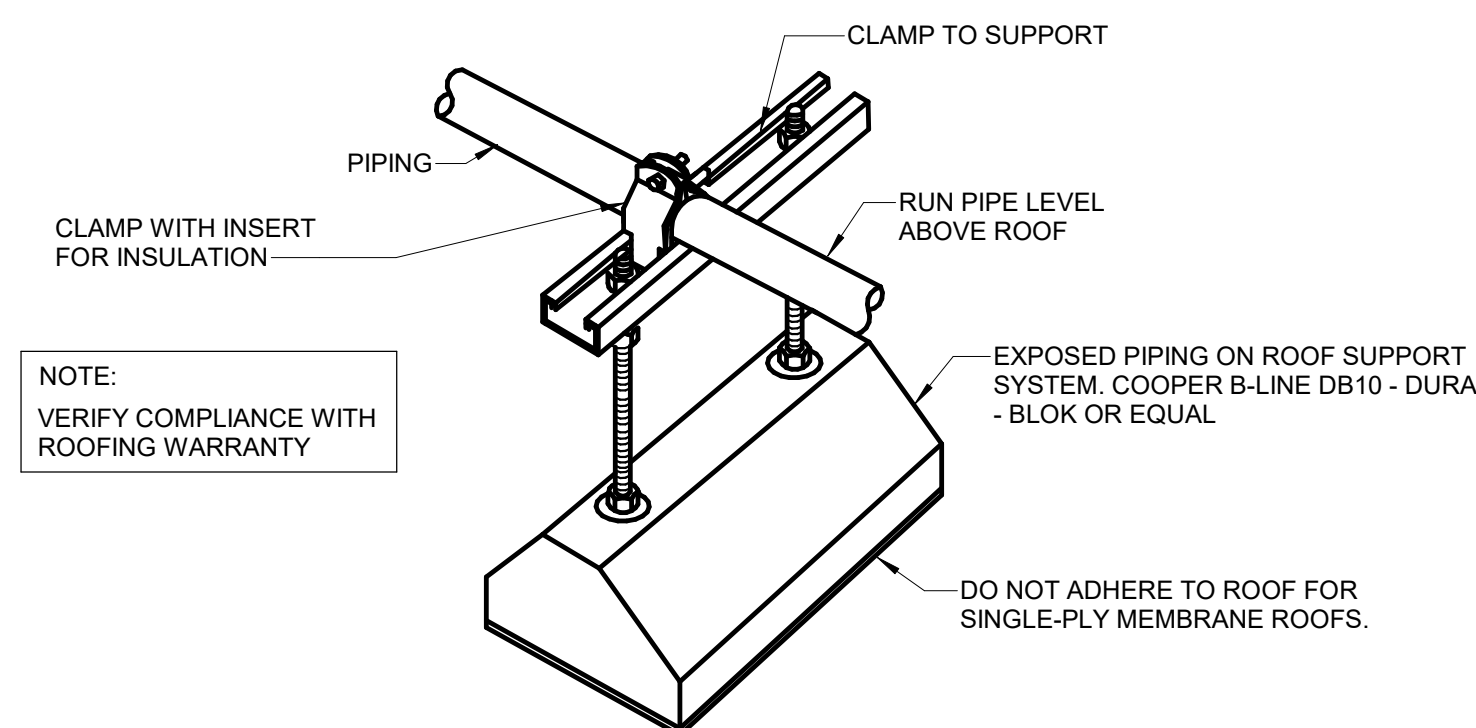
2
P6.1



AIR ADMITTANCE VALVE DETAIL

SCALE: NTS

6
P6.1



PIPING ON ROOF SUPPORT

SCALE: NTS

3
P6.1

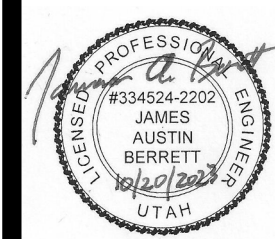
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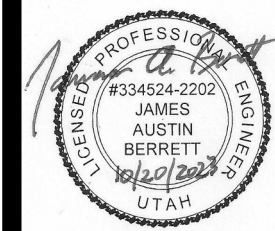
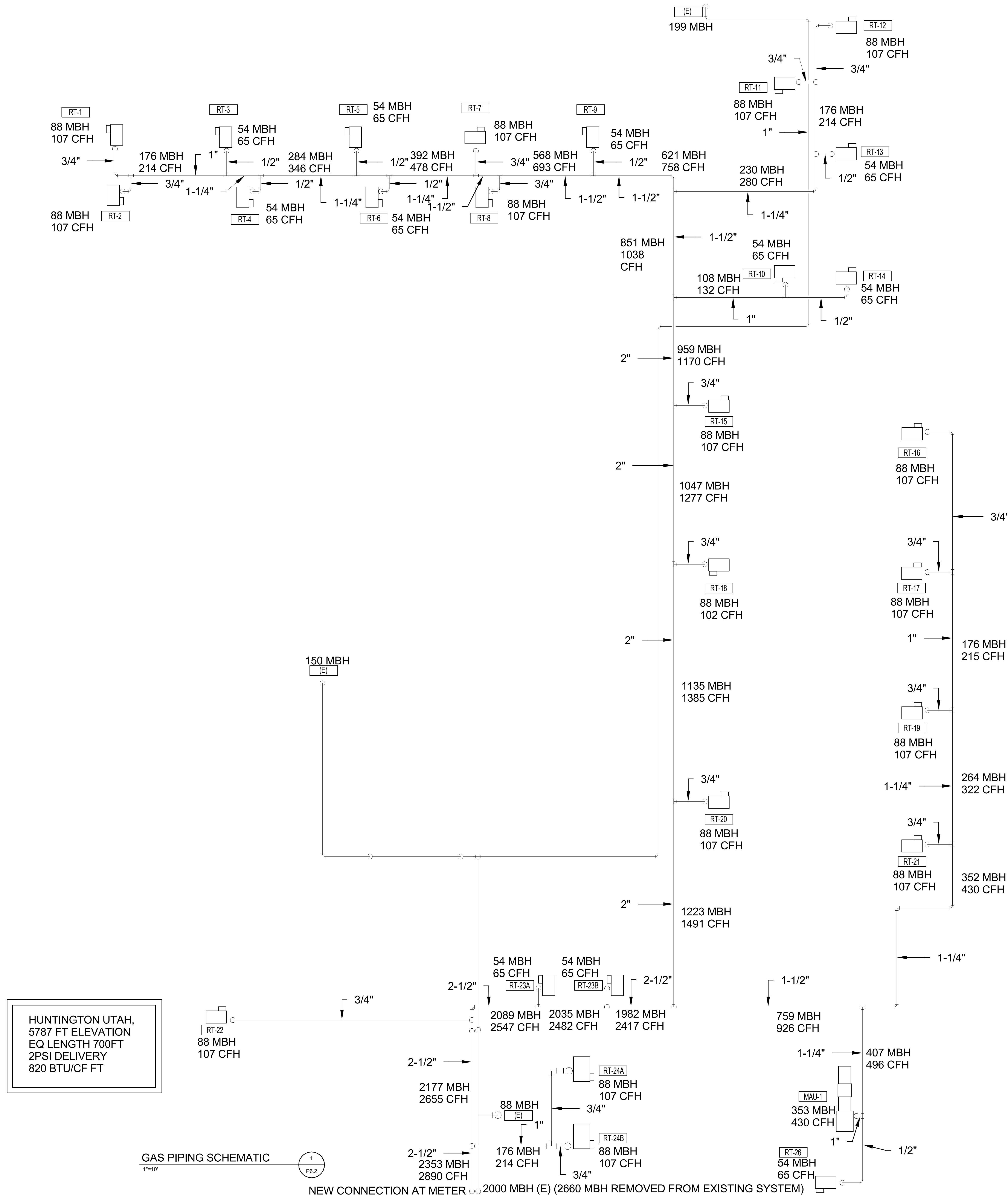
P6.1



REVISIONS:

OLSEN & PETERSON
consulting engineers, inc.
16 EAST 2700 SOUTH, SUITE 200, UT 84115
PHONE: (801) 242-4242 FAX: (801) 242-4231

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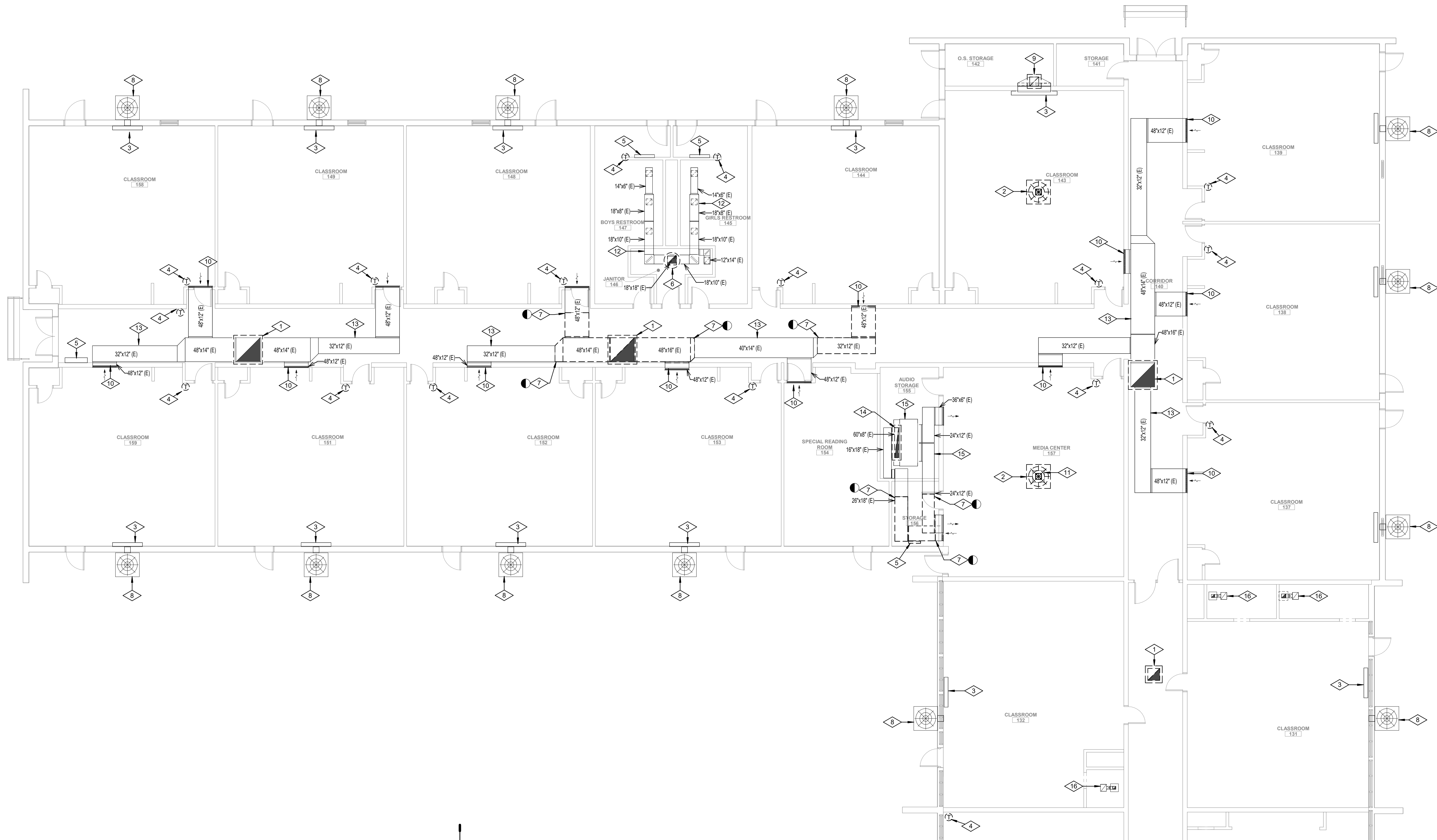
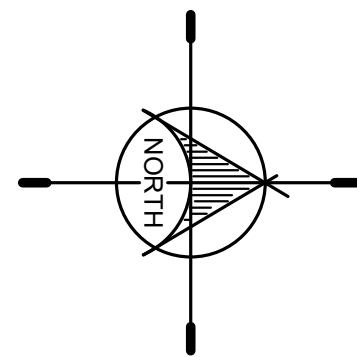
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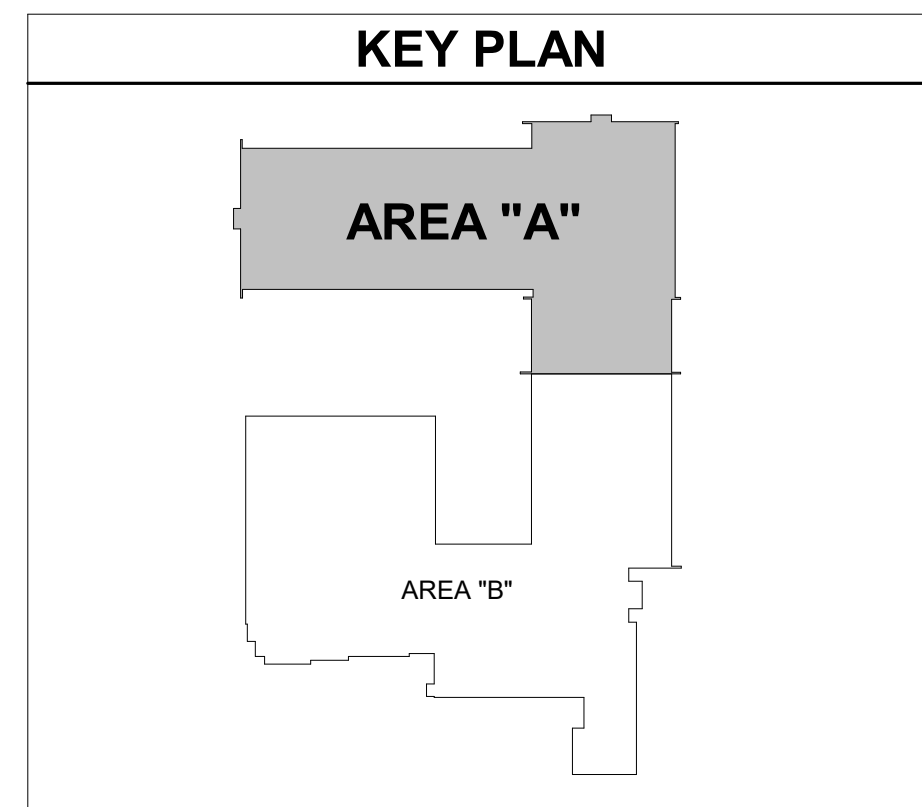
ENLARGED MECHANICAL DEMOLITION PLAN AREA A

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

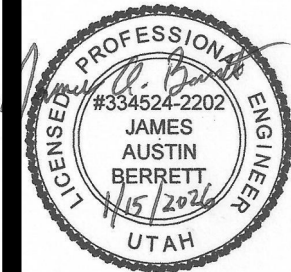


REFERENCE NOTES

- 1 REMOVE EXISTING RELIEF FAN COMPLETE, PATCH AND REPAIR ROOF.
- 2 REMOVE EXISTING EVAPORATIVE UNIT, CAP DUCT BELOW ROOF, PATCH AND REPAIR ROOF. (TYP)
- 3 ABANDON IN PLACE EXISTING UNIT VENTILATOR COMPLETE.
- 4 REMOVE EXISTING THERMOSTAT COMPLETE. REMOVE ANY WIRE MOULDING (TYPICAL)
- 5 ABANDON IN PLACE EXISTING CONVECTOR.
- 6 REMOVE EXISTING EXHAUST FAN COMPLETE. SEE NEW WORK FOR REPLACEMENT.
- 7 REMOVE EXISTING DUCT WORK TO APPROXIMATELY THIS LOCATION. EXISTING LOCATIONS AND SIZES ARE APPROXIMATE.
- 8 ABANDON EXISTING WINDOW EVAPORATIVE UNIT IN PLACE. (TYP)
- 9 REMOVE EXISTING ROOF HOOD AND OUTSIDE AIR DUCTWORK TO UNIT CONVECTOR. PATCH AND REPAIR ROOF AND WALL. COORDINATE WITH ARCHITECTURAL PLANS. USE PREFERRED ROOFING CONTRACTOR.
- 10 ABANDON RELIEF VENTS IN PLACE. (TYPICAL)
- 11 EXISTING DIFFUSERS TO REMAIN. (TYPICAL)
- 12 EXISTING DUCTWORK TO REMAIN. (TYPICAL)
- 13 ABANDON EXISTING RELIEF AIR DUCTWORK IN PLACE (TYPICAL).
- 14 REMOVE EXISTING OUTSIDE AIR ROOF HOOD, CAP DUCTWORK BELOW ROOF. PATCH AND REPAIR ROOF. COORDINATE WITH ARCHITECTURAL PLANS.
- 15 ABANDON IN PLACE EXISTING FANCOIL UNIT AND DUCTWORK.
- 16 EXISTING CEILING MOUNTED EXHAUST FAN TO REMAIN (TYPICAL).



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PROJECT TITLE
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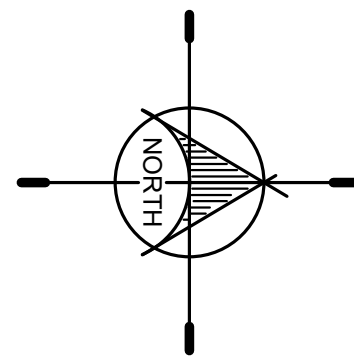
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ENLARGED MECHANICAL DEMOLITION PLAN AREA B

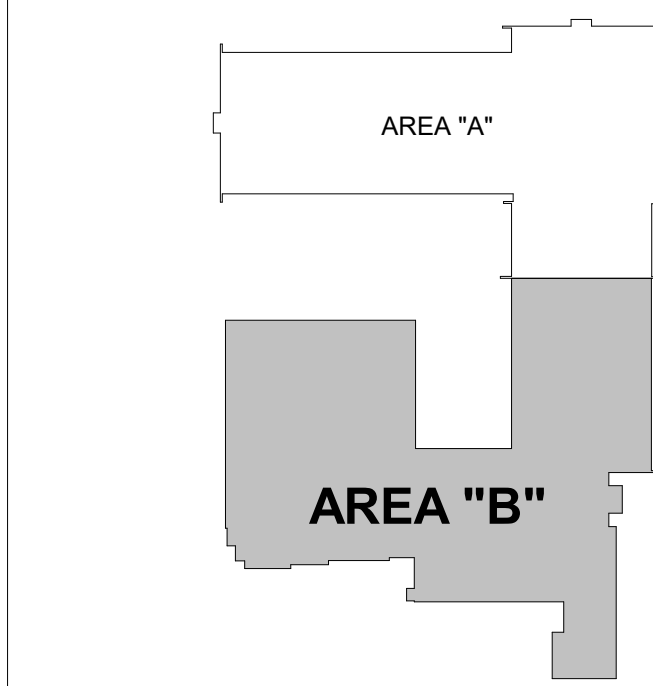
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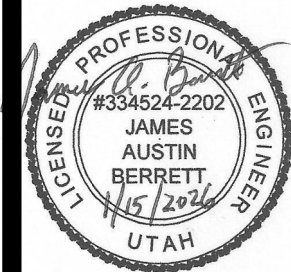
REFERENCE NOTES

- 1 NO WORK IN THIS AREA. (TYPICAL)
- 2 REMOVE EXISTING ROOF HOOD COMPLETE, CAP DUCTWORK BELOW ROOF. PATCH AND REPAIR ROOF. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 3 REMOVE EXISTING ROOF MOUNTED EXHAUST FAN COMPLETE.
- 4 ABANDON EXISTING DUCTWORK IN PLACE (TYPICAL)
- 5 REMOVE EXISTING EVAPORATIVE UNIT, CAP INSIDE OF THE BUILDING. PATCH AND REPAIR WALL.
- 6 EXISTING DUCTWORK TO REMAIN (TYPICAL)
- 7 REMOVE EXISTING DUCTWORK TO APPROXIMATELY THIS LOCATION.
- 8 REMOVE EXISTING THERMOSTAT COMPLETE. (TYPICAL)
- 9 ABANDON EXISTING RELIEF VENTS IN PLACE. (TYPICAL)
- 10 ABANDON EXISTING WINDOW EVAPORATIVE UNIT IN PLACE. (TYP)
- 11 ABANDON EXISTING UNIT VENTILATOR COMPLETE.
- 12 ABANDON EXISTING CONVECTOR IN PLACE.
- 13 ABANDON FAN COIL IN PLACE.
- 14 EXISTING CEILING MOUNTED EXHAUST FAN TO REMAIN (TYPICAL)
- 15 REMOVE EXISTING EVAPORATIVE UNIT CONTROLS (TYPICAL)
- 16 REMOVE EXISTING EVAPORATIVE UNIT AND DUCTWORK ON ROOF. PATCH AND REPAIR ROOF. LEAVE DUCTWORK AND DIFFUSER FOR FUTURE MAU CONNECTION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 17 EXISTING DISHWASHER AND GENERAL EXHAUST FAN TO REMAIN.
- 18 REMOVE DUCTWORK TO DROP TO THE BASEMENT. ABANDON DUCTWORK IN CHASE.
- 19 EXISTING HOOD AND HOOD EXHAUST FAN TO REMAIN.
- 20 REMOVE EXISTING EXHAUST DUCT COMPLETE.
- 21 EXISTING ROOFTOP UNIT, DUCTWORK, AND THERMOSTAT TO REMAIN (TYP)
- 22 EXISTING WALL MOUNTED SPLIT SYSTEM TO REMAIN (TYP)
- 23 EXISTING ROOF MOUNTED CONDENSING UNIT TO REMAIN.

KEY PLAN



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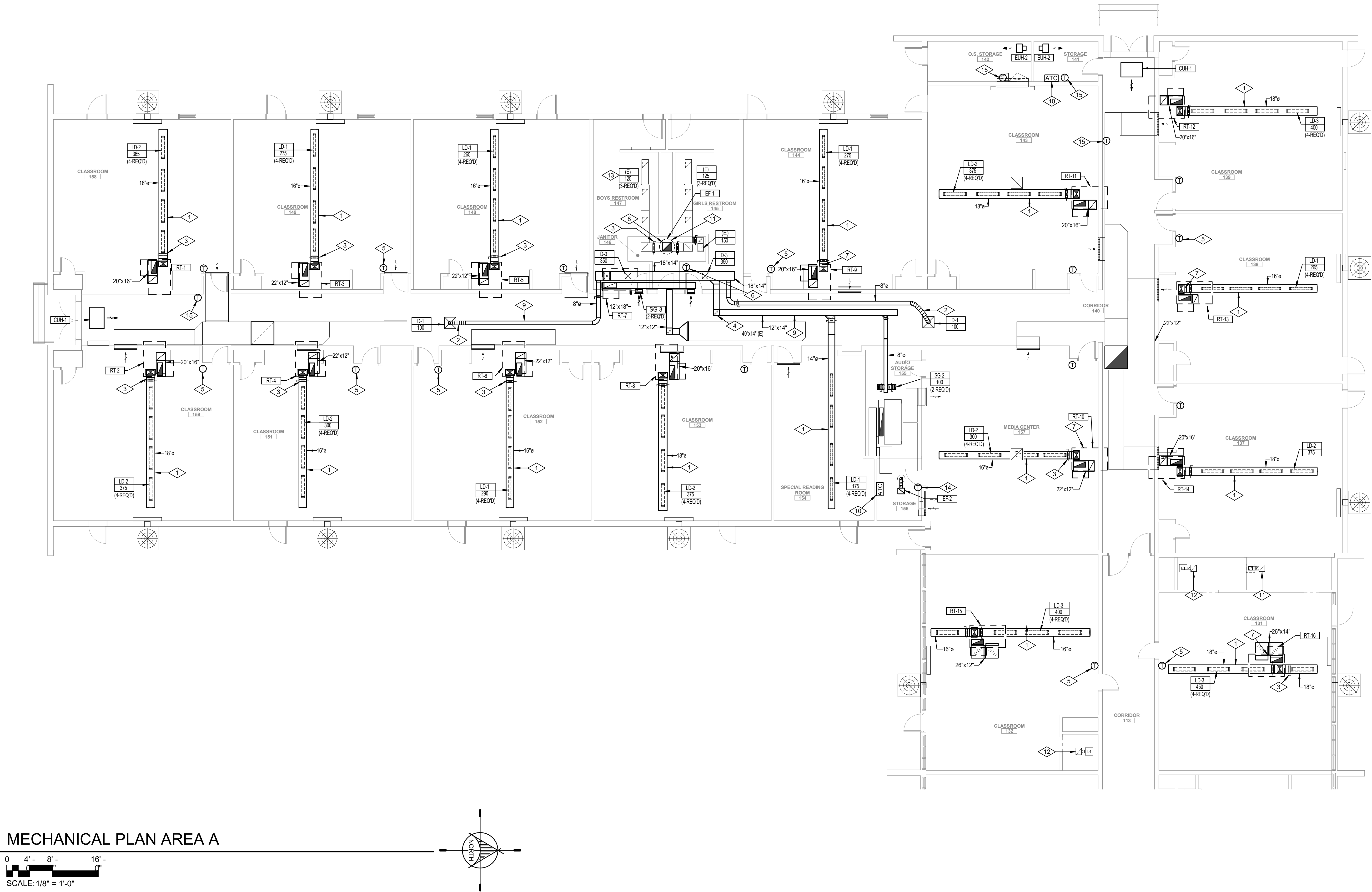
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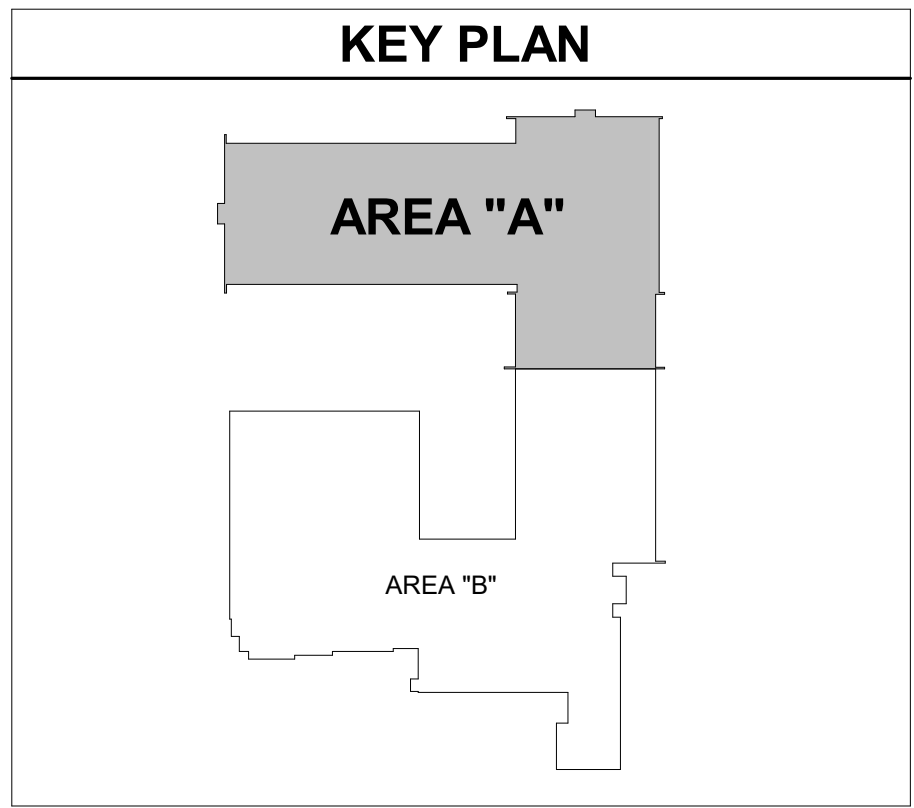
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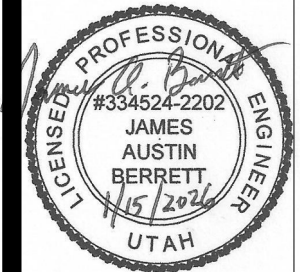
MECHANICAL PLAN AREA A

REFERENCE NOTES

- 1 DUCTWORK TO RUN EXPOSED BETWEEN BEAM AND OFFSET FOR LIGHTING. (TYPICAL)
- 2 FLEXIBLE DUCT WORK. MAXIMUM LENGTH 5'-0" (TYPICAL)
- 3 MANUAL VOLUME BALANCING DAMPER. (TYPICAL)
- 4 TURNING VANES. (TYPICAL)
- 5 NEW WALL MOUNTED HEATING/COOLING THERMOSTAT (TYPICAL). STAT TO BE MOUNTED IN SAME POSITION AS EXISTING. PULL POWER/CONTROL WIRES THROUGH EXISTING RUN IF POSSIBLE.
- 6 NEW WALL MOUNTED HEATING/COOLING THERMOSTAT TO BE MOUNTED 4'-0" AFF.
- 7 SUPPLY AND RETURN DUCT DOWN THRU ROOF FROM ROOFTOP UNIT. COORDINATE EXACT LOCATION WITH STRUCTURE AND UNIT PROVIDED (TYPICAL).
- 8 CONNECT NEW EXHAUST FAN TO EXISTING DUCTWORK. WITH AN ADAPTOR CURB.
- 9 DUCTWORK TO RUN ABOVE CEILING. COORDINATE WITH EXISTING CONTITIONS AND RE-ROUTE AS NECESSARY.
- 10 NEW ATC PANEL. 120/160 POWER REQUIRED.
- 11 TIE IN EXISTING EXHAUST FAN TO NEW BUILDING CONTROL SYSTEM.
- 12 EXISTING EXHAUST FAN TO TURN ON WITH THE LIGHTS.
- 13 REBALANCE EXISTING EXHAUST AIR GRILLES TO CFM SHOWN.
- 14 NEW COOLING ONLY THERMOSTAT TO CONTROL EF-2.
- 15 NEW WALL MOUNTED HEATING ONLY THERMOSTAT. STAT TO BE 4'-0" AFF.



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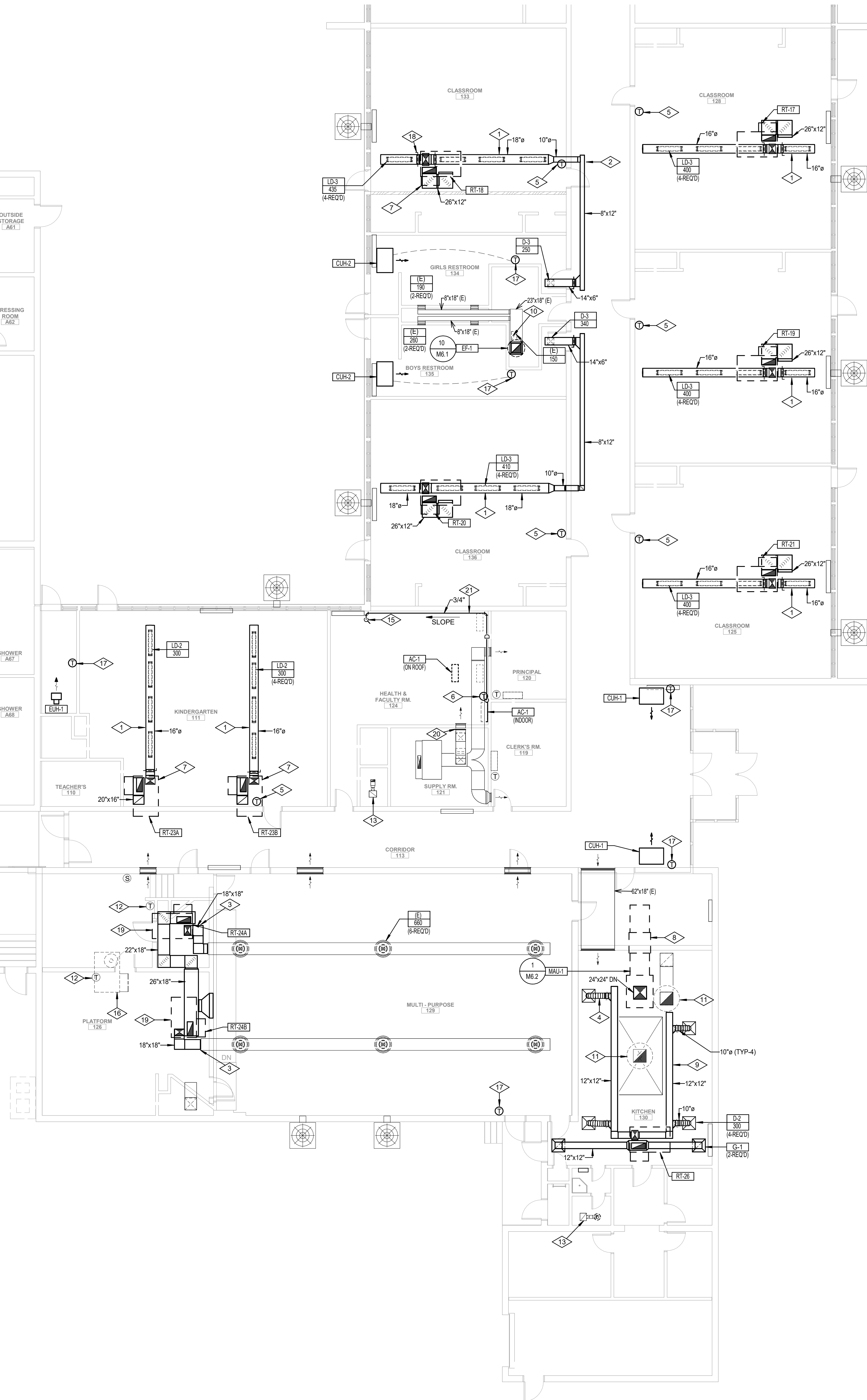
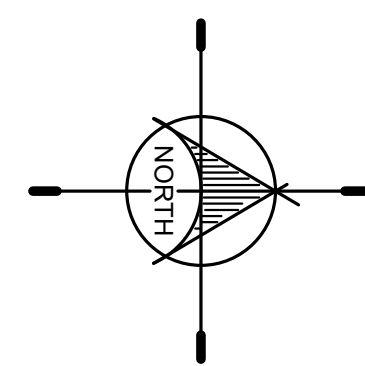
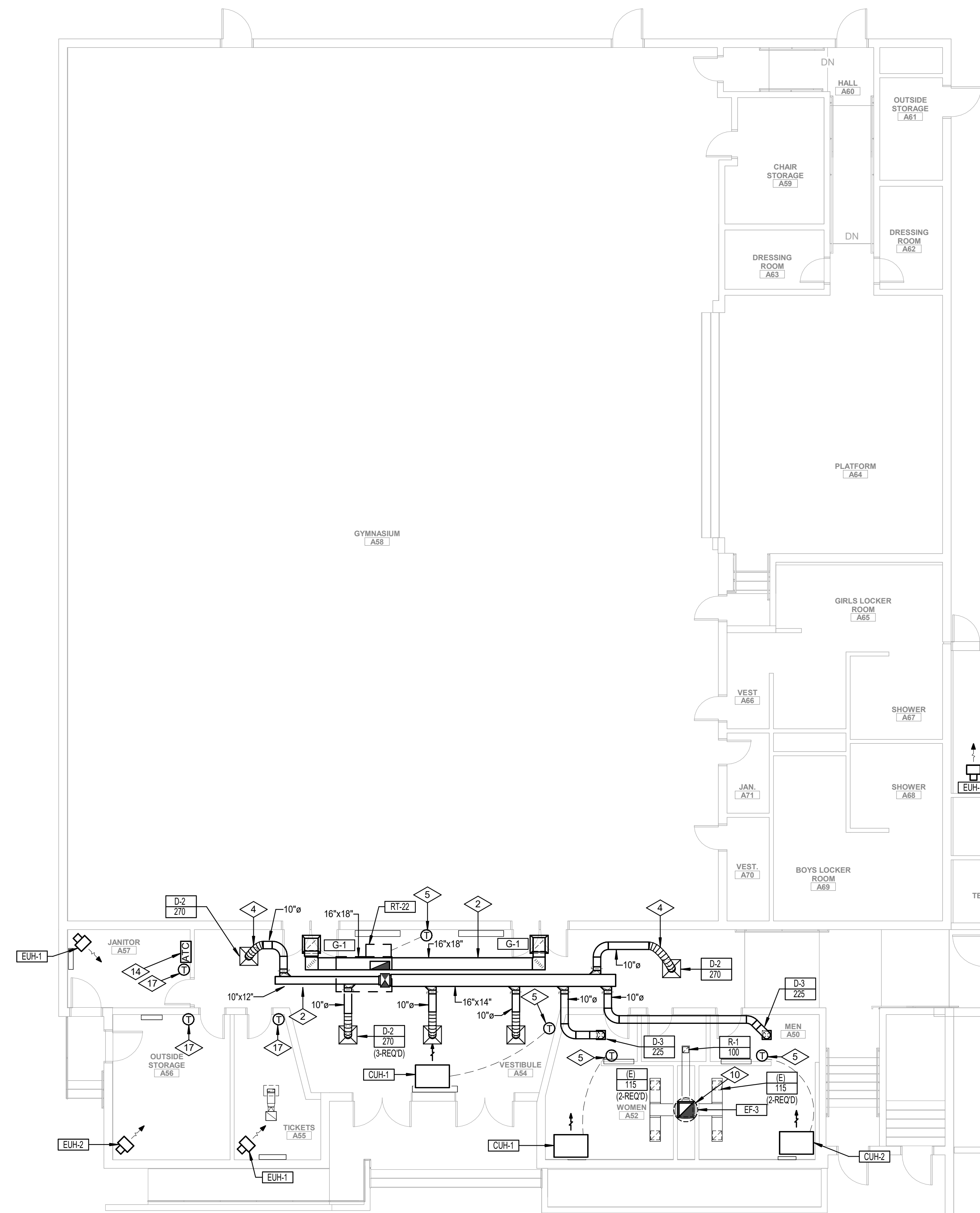


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EMERY SCHOOL DISTRICT
HUNTINGTON ELEMENTARY SCHOOL
MECHANICAL UPGRADE
HUNTINGTON, UT 84528
PROJECT TITLE
PROJECT # 176525

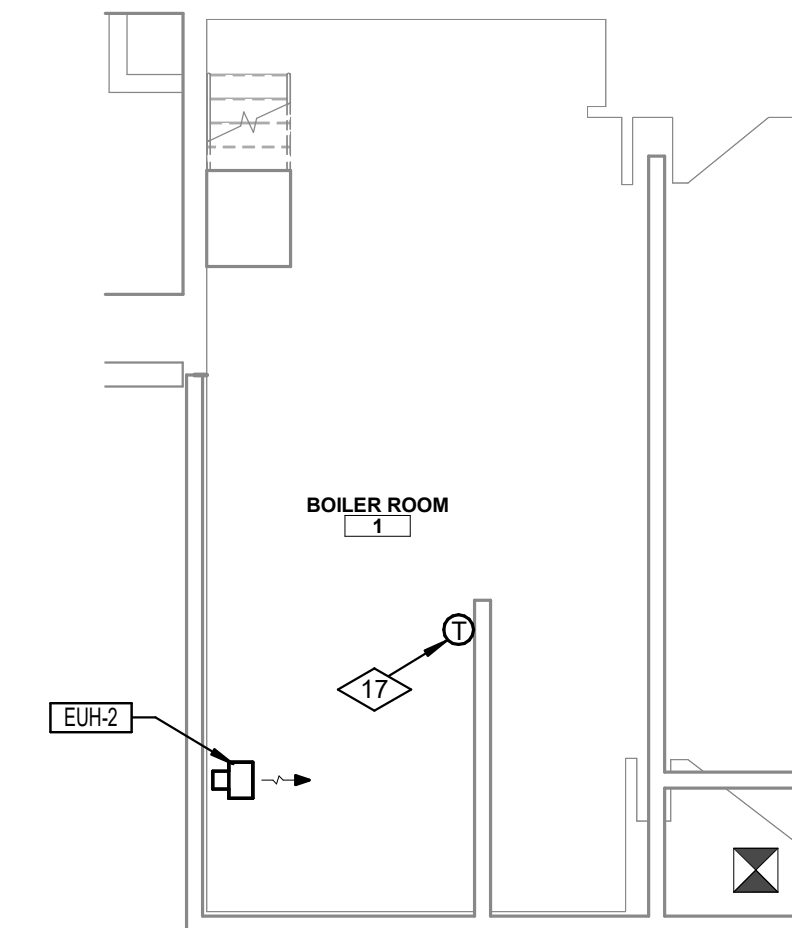
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REFERENCE NOTES

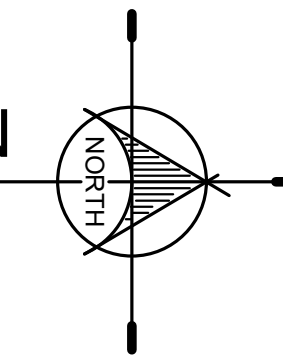
- DUCTWORK TO RUN EXPOSED BETWEEN BEAM AND OFFSET FOR LIGHTING. (TYPICAL)
- DUCTWORK TO RUN ABOVE CEILING. COORDINATE WITH EXISTING CONDITIONS AND RE-ROUTE AS NECESSARY.
- CONNECT TO EXISTING AT APPROXIMATELY THIS LOCATION.
- FLEXIBLE DUCT WORK. MAXIMUM LENGTH 5'-0" (TYPICAL)
- NEW WALL MOUNTED HEATING/COOLING THERMOSTAT (TYPICAL). STAT TO BE MOUNTED IN SAME POSITION AS EXISTING. PULL POWER/CONTROL WIRES THROUGH EXISTING RUN IF POSSIBLE.
- WALL MOUNTED HARD WIRED. HEATING/COOLING THERMOSTAT TO CONTROL AC-1.
- SUPPLY AND RETURN DUCT DOWN THRU ROOF FROM ROOFTOP UNIT. COORDINATE EXACT LOCATION WITH STRUCTURE AND UNIT PROVIDED (TYPICAL).
- MAU-1 TO DROP INTO GRILLE FROM EXISTING EVAPORATIVE COOLER.
- DUCTWORK TO RUN AS HIGH AS POSSIBLE ABOVE CEILING. COORDINATE WITH ALL TRADES.
- CONNECT NEW EXHAUST FAN TO EXISTING DUCTWORK WITH AN ADAPTOR CURB.
- EXISTING EXHAUST FAN TO BE INTERLOCKED WITH MAKE-UP AIR UNIT.
- TIE IN EXISTING THERMOSTATS TO NEW BUILDING CONTROL SYSTEM.
- EXISTING EXHAUST FAN TO TURN ON WITH THE LIGHTS.
- NEW ATC PANEL. 120V/160 POWER REQUIRED.
- CONDENSATE DRAIN TO TIE INTO EXISTING SINK. SEE DETAIL 5/P6.1.
- CONNECT EXISTING ROOF TOP UNIT TO NEW ATC CONTROLS SYSTEM. (TYP)
- NEW WALL MOUNTED HEATING ONLY THERMOSTAT. STAT TO BE 4'-0" AFF.
- MANUAL VOLUME BALANCING DAMPER. (TYPICAL)
- KEEP ROOFTOP UNIT AIR INTAKE AT LEAST 10' FROM ALL MECHANICAL AIR EXHAUSTS.
- CAP EXISTING DUCTWORK AT APPROXIMATELY THIS LOCATION (TYP)
- RUN DRAIN LINE AS HIGH AS POSSIBLE. TIGHT TO BOTTOM OF STRUCTURE.



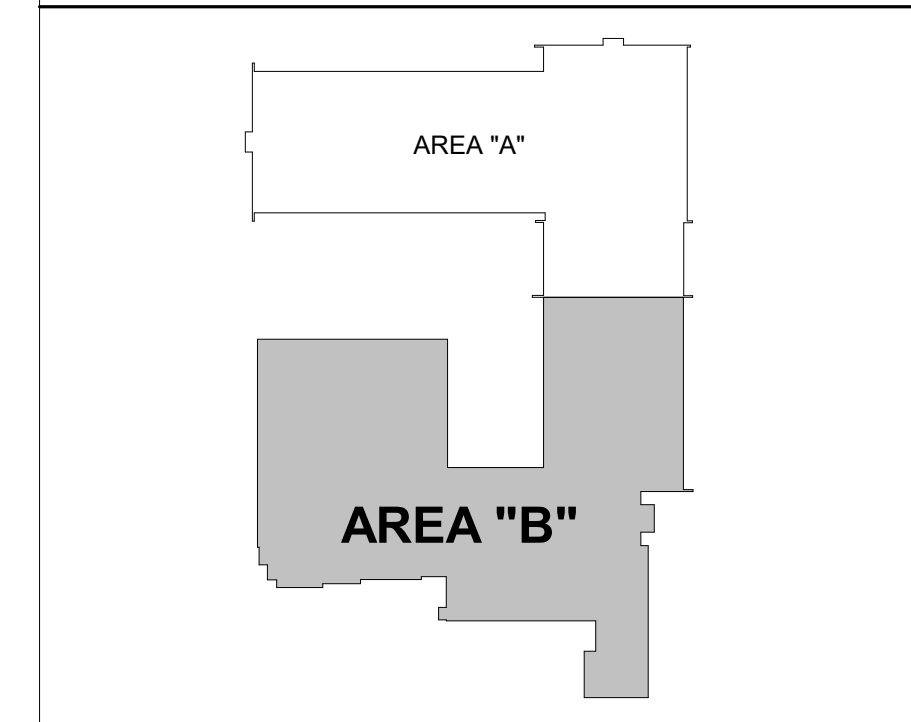
MECHANICAL BASEMENT PLAN

0 4' 8' 16'

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



KEY PLAN



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GAS FIRED / DX ROOF TOP UNIT SCHEDULE																	
SYMBOL	LOCATION	CFM	E.S.P	MIN. O.A. CFM	DX - COOLING CAPACITY			GAS - HEATING CAPACITY			POWER	MCA	MOCP	RT-SIZE	UNIT WTS. LBS	MAKE & MODEL	NOTES (1)(2)(3)(4)(5)(6)
					DX MBH	DX SENSIBLE MBH	DX EFFICIENCY	GAS MBH INPUT	GAS MBH OUTPUT	GAS EFFICIENCY							
RT-1	CLASSROOM 158	1450	0.5	408	34.08	26.13	13.40 SEER2	88.0/65.6	70.4/52.0	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	648	CARRIER 48FEEA04B2A5-8B1C0	
RT-2	CLASSROOM 159	1500	0.5	407	34.5	28.56	13.40 SEER2	88.0/65.6	70.4/52.0	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	648	CARRIER 48FEEA04B2A5-8B1C0	
RT-3	CLASSROOM 149	1100	0.5	413	31.65	26.99	13.40 SEER2	53.6	43.2	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	648	CARRIER 48FEDA04B2A5-8B1C0	
RT-4	CLASSROOM 151	1200	0.5	410	32.46	27.70	13.40 SEER2	53.6	43.2	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	648	CARRIER 48FEDA04B2A5-8B1C0	
RT-5	CLASSROOM 148	1050	0.5	411	31.24	26.57	13.40 SEER2	53.6	43.2	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	648	CARRIER 48FEDA04B2A5-8B1C0	
RT-6	CLASSROOM 152	1150	0.5	410	32.06	27.32	13.40 SEER2	53.6	43.2	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	648	CARRIER 48FEDA04B2A5-8B1C0	
RT-7	JANITOR 146	1800	0.5	750	47.74	38.72	13.40 SEER2	88.0	70.4	80 %	208/3/60	31	45.0	74.4 L x 46.6 W x 33.4 H	533	CARRIER 48FEEA05B2A5-8B1C0	
RT-8	CLASSROOM 153	1500	0.5	410	34.49	28.61	13.40 SEER2	88.0/65.6	70.4/52.0	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	533	CARRIER 48FEDA04B2A5-8B1C0	
RT-9	CLASSROOM 144	1100	0.5	750	34.49	26.99	13.40 SEER2	53.6	43.2	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	648	CARRIER 48FEDA04B2A5-8B1C0	
RT-10	MEDIA CENTER 157	1200	0.5	410	32.46	27.70	13.40 SEER2	53.6	43.2	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	533	CARRIER 48FEDA04B2A5-8B1C0	
RT-11	CLASSROOM 143	1500	0.5	413	34.47	28.83	13.40 SEER2	88.0/65.6	70.4/52.0	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	648	CARRIER 48FEEA04B2A5-8B1C0	
RT-12	CLASSROOM 139	1600	0.5	408	47.47	38.37	13.40 SEER2	88.0	70.4	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	594	CARRIER 48FEEA05B2A5-8B1C0	
RT-13	CLASSROOM 138	1053	0.5	426	31.27	26.58	13.40 SEER2	53.6	43.2	80 %	208/1/60	22	30.0	74.4 L x 46.6 W x 33.4 H	533	CARRIER 48FEDA04B2A5-8B1C0	
RT-14	CLASSROOM 137	1500	0.5	415	50.76	31.84	13.40 SEER2	53.6	43.2	80 %	208/3/60	22	30.0	74.4 L x 46.6 W x 33.4 H	594	CARRIER 48FEDA05B2A5-8B1C0	
RT-15	CLASSROOM 132	1990	0.5	410	47.47	38.42	13.40 SEER2	88.0	70.4	80 %	208/3/60	26	30.0	74.4 L x 46.6 W x 33.4 H	594	CARRIER 48FEEA05B2A5-8B1C0	
RT-16	CLASSROOM 131	1800	0.5	412	47.47	38.72	13.40 SEER2	88.0	70.4	80 %	208/3/60	26	30.0	74.4 L x 46.6 W x 33.4 H	594	CARRIER 48FEEA05B2A5-8B1C0	
RT-17	CLASSROOM 128	1600	0.5	435	47.47	38.87	13.40 SEER2	88.0	70.4	80 %	208/3/60	26	30.0	74.4 L x 46.6 W x 33.4 H	594	CARRIER 48FEEA05B2A5-8B1C0	
RT-18	CLASSROOM 133	1990	0.5	435	47.47	38.25	13.40 SEER2	88.0	70.4	80 %	208/3/60	31	45.0	86.4 L x 59.5 W x 39.3 H	676	CARRIER 48FEEA06B2A5-8B1C0	
RT-19	CLASSROOM 127	1600	0.5	418	47.47	38.42	13.40 SEER2	88.0	70.4	80 %	208/3/60	26	30.0	74.4 L x 46.6 W x 33.4 H	594	CARRIER 48FEEA05B2A5-8B1C0	
RT-20	CLASSROOM 136	1990	0.5	415	48.43	38.32	13.40 SEER2	88.0	70.4	80 %	208/3/60	26	30.0	74.4 L x 46.6 W x 33.4 H	594	CARRIER 48FEEA05B2A5-8B1C0	
RT-21	CLASSROOM 125	1600	0.5	418	47.47	38.42	13.40 SEER2	88.0	70.4	80 %	208/3/60	26	30.0	74.4 L x 46.6 W x 33.4 H	594	CARRIER 48FEEA05B2A5-8B1C0	
RT-22	VESTIBULE A54	1800	0.5	272	47.47	38.72	13.40 SEER2	88.0	70.4	81 %	208/3/60	32	50	74.4 L x 46.6 W x 33.4 H	663	CARRIER 48FEEA05B2A5-8B1C0	
RT-23A	KINDERGARTEN 111	1200	0.5	185	32.46	27.7	13.40 SEER2	53.6	43.2	80 %	208/3/60	26	30	74.4 L x 46.6 W x 33.4 H	594	CARRIER 48FEDA04B2A5-8B1C0	
RT-23B	KINDERGARTEN 111	1200	0.5	185	32.46	27.7	13.40 SEER2	53.6	43.2	80 %	208/3/60	26	30	74.4 L x 46.6 W x 33.4 H	594	CARRIER 48FEDA04B2A5-8B1C0	
RT-24A	MULTIPURPOSE 129	1990	0.5	625	47.74	44.49	13.40 SEER2	88.0	70.4	81 %	208/3/60	31	45	115.9 L x 63.4 W x 57.4 H	676	CARRIER 48FEEA06B2A5-8B1C0	
RT-24B	MULTIPURPOSE 129	1990	0.5	625	47.74	44.49	13.40 SEER2	88.0	70.4	81 %	208/3/60	31	45	115.9 L x 63.4 W x 57.4 H	676	CARRIER 48FEEA06B2A5-8B1C0	
RT-26	KITCHEN 130	1200	0.5	141	33.08	23.30	13.40 SEER2	53.6	43.2	80 %	208/3/60	22.0	30.0	74.4 L x 46.6 W x 33.4 H	648	CARRIER 48FEDA04B2A5-8B1C0	

- NOTES:
(1) ROOFTOP UNIT TO BE COMPLETE WITH HINGED ACCESS DOORS, 100% OUTDOOR AIR ECONOMIZER PACKAGE WITH BUILT-IN 100% RELIEF AIR, 18" HIGH FACTORY ROOF CURB OR AS REQUIRED FOR 12" MIN ABOVE FINISHED ROOF, UNPOWERED WEATHERPROOF GFI CONVENIENCE OUTLET AND ALL CONTROLS FOR AUTOMATIC OPERATION. UNIT SHALL BE U.L. LISTED, ARI CERTIFIED AND AGA APPROVED, DOWN DISCHARGE.
(2) COOLING CAPACITY BASEDON 55°F COOLING SUPPLY TEMPERATURE, 73°F INDOOR AIR TEMPERATURE, 91°F DB AND 60°F WB OUTDOOR AIR TEMP, HEATING BASED ON 5°F.
(3) UNITS SHALL BE COMPLETE WITH 2" MERV 8 FILTERS, ABLE TO UPGRADE TO MERV 13 WITH NO CHANGES TO FILTER RACK.
(4) CAPACITIES BASED ON 5675 FT. ELEVATION.
(5) UNITS SHALL USE R-454B.
(6) ROOFTOP UNITS TO COME FROM THE FACTORY BACNET COMPATIBLE, UNITS TO CONNECT TO EXISTING DELTA CONTROLS SYSTEM, SEE SPECIFICATIONS.

LINEAR DIFFUSER SCHEDULE						
SYMBOL	TYPE	NUMBER OF SLOTS	SIZE	AIR PATTERN	MAKE & MODEL	NOTES
LD-1	SUPPLY	2	4"x46"	2-WAY	PRICE SDS	(1)(2)(3)
LD-2	SUPPLY	3	5"x46"	2-WAY	PRICE SDS	(1)(2)(3)
LD-3	SUPPLY	4	7"x46"	2-WAY	PRICE SDS	(1)(2)(3)

- NOTES:
(1) DUCT MOUNTED WITH PRICE TYPE 16 FRAMES
(2) EQUALIZING GRID
(3) ANODIZED ALUMINUM FINISH

MAKE-UP AIR UNIT SCHEDULE														
SYMBOL	LOCATION	CFM	E.S.P	EVAP SECTION	FLOW CONFIG.	NATURAL GAS - HEATING CAPACITY		POWER	MCA	MOP	H.P.	MAKE & MODEL	NOTES	
						GAS MBH INPUT	GAS MBH OUTPUT							
MAU-1	KITCHEN	5400	.5	YES	DOWN	353.3	325.0	92	208/3/60	27.6	45	7.5	EA3-D.500-24D	(1)(2)

- NOTES:
(1) SINGLE POINT POWER CONNECTION WITH STEP DOWN TRANSFORMER FOR EVAP. SECTION, WALL CONTROL PANEL, INLET HOOD, AND 18" FACTORY CURB.
(2) PROVIDE UNPOWERED CONVENIENCE OUTLET.
(3) CAPACITIES BASED ON 5675 FT. ELEVATION.

CABINET UNIT HEATER										
SYMBOL	LOCATION	MOUNTING	CFM	HEATING M.B.H	AMPS	POWER	CUSTOM UNIT HEIGHT	CUSTOM UNIT LENGTH	CUSTOM UNIT WIDTH	MAKE & MODEL
CUH-1	VESTIBULE	CEILING	1000	20.4	18	208/3/60	0' - 10"	3' - 9"	2' - 6"	QMARK CU945
CUH-2	RESTROOM	CEILING	1000	13.6	18	208/3/60	0' - 10"	3' - 9"	2' - 6"	QMARK CU945

- NOTES:
(1) PROVIDE FRAME FOR CEILING MOUNTING IN GYP BOARD CEILING OR T-BAR CEILING.
(2) PROVIDE SUPPORTS FROM STRUCTURE.
(3) CONTROLLED WITH DDC HEATING ONLY THERMOSTAT.
(4) UNITS SHALL HAVE BRIGHT-WHITE FINISH.

EXHAUST FAN SCHEDULE									
SYMBOL	LOCATION	TYPE	CFM	E.S.P	MOTOR	DRIVE	UNIT WTS. LBS	MAKE & MODEL	NOTES
EF-1	BATHROOM	ROOF MOUNTED	900	0.5	25HP 115/1/60	BELT	55	COOK 120 ACEB	(1)(2)
EF-2	STORAGE 156	CEILING MOUNTED	100	.25	.05HP 115/1/60	DIRECT DRIVE	30	COOK GC-148	(3)(4)
EF-3	SOUTH RR	ROOF MOUNTED	650	0.5	25HP 115/1/60	BELT	30	COOK 100 ACEB	(1)(2)

- NOTES:
(1) EXHAUST FAN TO BE ROOF-MOUNTED DOWN BLAST, COMPLETE WITH SPUN ALUMINUM HOOD, BIRDSCREEN, DISCONNECT SWITCH UNDER HOOD, FACTORY PREFAB CURB AND BACKDRAFT DAMPER, SEE DETAIL 10/M6.1.
(2) EXHAUST FAN SHALL BE COMPLETE WITH 18" HIGH FACTORY PRE-FAB ROOF CURB.
(3) CEILING MOUNTED EXHAUST FAN TO BE COMPLETE WITH CEILING GRILLE, BACKDRAFT DAMPER, AND FELXIBLE CONNECTION ON DISCHARGE DUCT.
(4) CONTROLLED WITH COOLING ONLY THERMOSTAT.

ELECTRIC UNIT HEATER								
SYMBOL	LOCATION	MOUNTING	CFM	HEATING M.B.H	AMPS	POWER	MAKE & MODEL	NOTES
EUH-1	STORAGE	CEILING	400	11.2	15.9	208/3/60	MARKEL F2F5103N	(1)
EUH-2	STORAGE	CEILING	700	19.2	16.2	208/3/60	MARKEL HF2B5107CA1L	(1)

- NOTES:
(1) PROVIDE MOUNTING BRACKET, DISCONNET, SUMMER FAN SWITCH AND DDC HEATING ONLY THERMOSTAT.

DIFFUSER SCHEDULE					
SYMBOL	TYPE	SIZE	LOCATION	AIR PATTERN	MAKE & MODEL
D-1	SUPPLY	8"ø	CEILING	4-WAY	PRICE - SCD
D-2	SUPPLY	10"ø	CEILING	4-WAY	PRICE - SCD
D-3	SUPPLY	12"x12"	BATHROOM	3-WAY	PRICE SMD

- NOTES:
(1) DIFFUSERS SHALL HAVE BRIGHT-WHITE FINISH
(2) DIFFUSER SHALL BE SQUARE CONE FACE TYPE WITH 24" X 24" MODULE FOR T-BAR CEILING OR FRAME FOR GYP BOARD CEILING INSTALLATION.

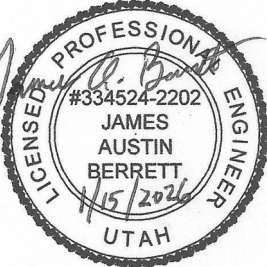
GRILLES SCHEDULE					
SYMBOL	TYPE	SIZE	LOCATION	MAKE & MODEL	NOTES
G-1	RETURN	24"x24"	CEILING	PRICE 535	(1)(2)
SG-2	SUPPLY	10"x6"	DUCT MOUNTED	PRICE 510	
SG-3	RETURN	16"x18"	WALL MOUNTED	PRICE 530	

- NOTES:
(1) GRILLE SHALL HAVE BRIGHT WHITE FINISH.
(2) GRILLE SHALL FIT IN T-BAR CEILING.
(3) GRILLE TO BE HEAVY DUTY, STEEL, HAVE SURFACE MOUNTING FRAME

MECHANICAL EQUIPMENT SCHEDULE

AC-1 (ND00R)	INDOOR UNIT: HEAT PUMP, HIGH WALL MOUNTED, HORIZONTAL DISCHARGE, 441 CFM, 11,730 BTUH TOTAL COOLING CAPACITY AT 95 DEG. F. O.A. TEMP. 80 DEG. F. D.B./67 DEG. F. W.B. INDOOR AIR, AND 10,428 BTUH HEATING CAPACITY AT 3°F. O.A. TEMP. 10/428 BTUH TOTAL HEATING CAPACITY AT 5 DEG. F. O.A. TEMP. MCA=15, 208/1/60, MOTOR TO BE UL LISTED. UNIT TO BE COMPLETE WITH CLEANABLE FILTER, CHECK & EXPANSION VALVE KIT, PRE-CHARGED LINE SET, DRIP PAN AND DRAIN CONNECTION OUT BACK SIDE OF UNIT. PROVIDE WALL MOUNTED THERMOSTAT WITH NIGHT SET BACK. THERMOSTAT SHALL BE HARD WIRED TO UNIT. UNIT DIM: 8.86" L x 31.30" W x 11.61" H WEIGHT: 43.95 LBS MANUFACTURER: CARRIER MODEL: 45MAHAQ12XA3
AC-1 (ON ROOF)	OUTDOOR UNIT: AIR COOLED, HORIZONTAL DISCHARGE, INVERTER COMPRESSOR, UNIT TO BE MOUNTED ON HOUSEKEEPING PAD, 11,730 BTUH TOTAL COOLING CAPACITY AT 95 DEG. F. O.A. TEMP. 80 DEG. F. DB/67 DEG. F. WB, 10,428 BTUH TOTAL HEATING CAPACITY AT 5 DEG. F. O.A. TEMP. MCA=15, 208/1/60, MOTOR TO BE UL LISTED. UNIT TO BE COMPLETE WITH CRANKCASE HEATER, AMBIENT CONTROL KIT TO 0 DEG. F., AND ALL CONTROLS FOR AUTOMATIC OPERATION. CONTRACTOR TO PROVIDE 4" HOUSE KEEPING PAD ABOVE GROND LEVEL. UNIT DIM: 12.99" L x 31.69" W x 21.81" H WEIGHT: 72.75 LBS SEER/EEER: 26.5/13.5 COP: 3.76 MANUFACTURER: CARRIER MODEL: 37MAHAQ12AA3

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EMERY SCHOOL DISTRICT
HUNTINGTON ELEMENTARY SCHOOL
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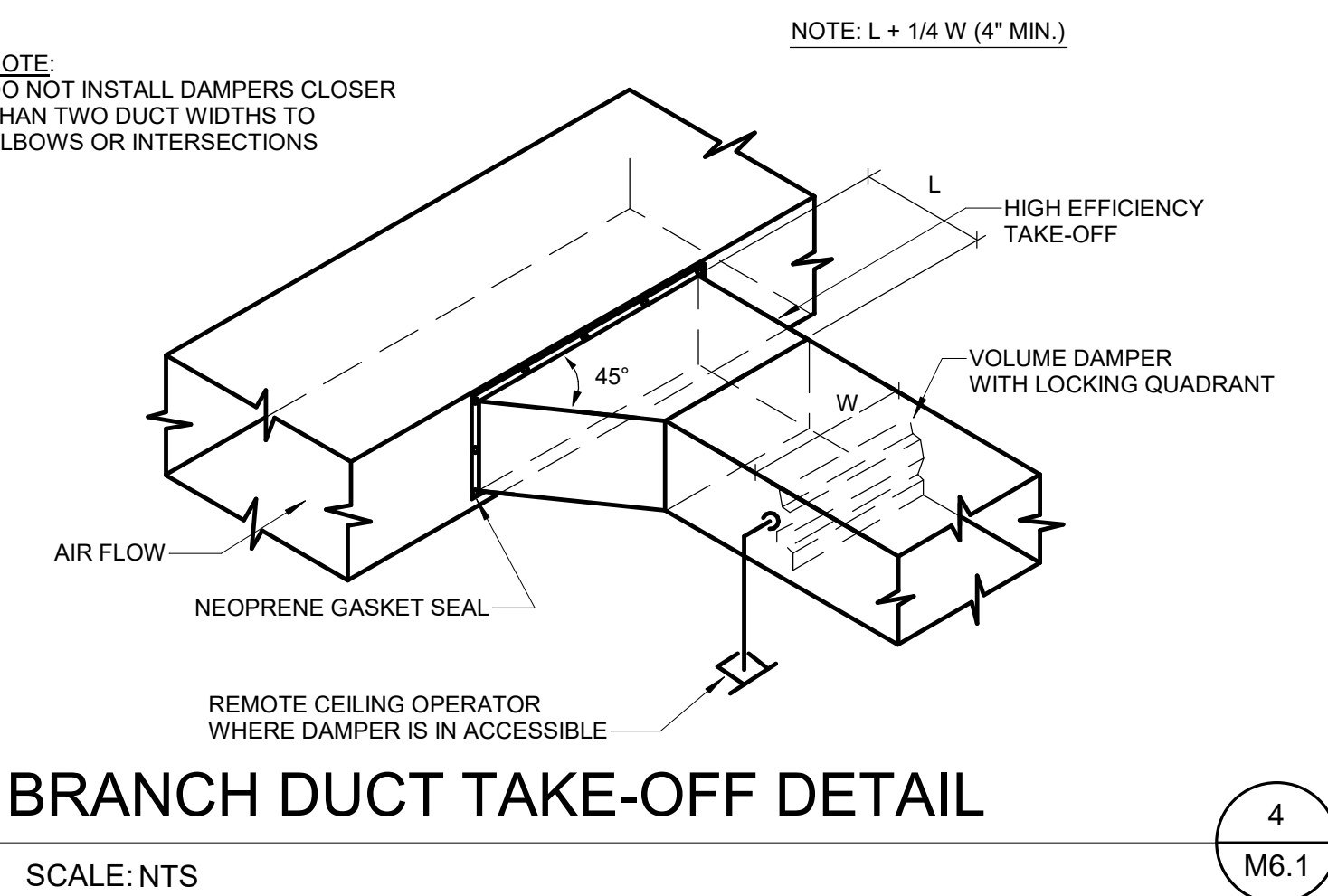
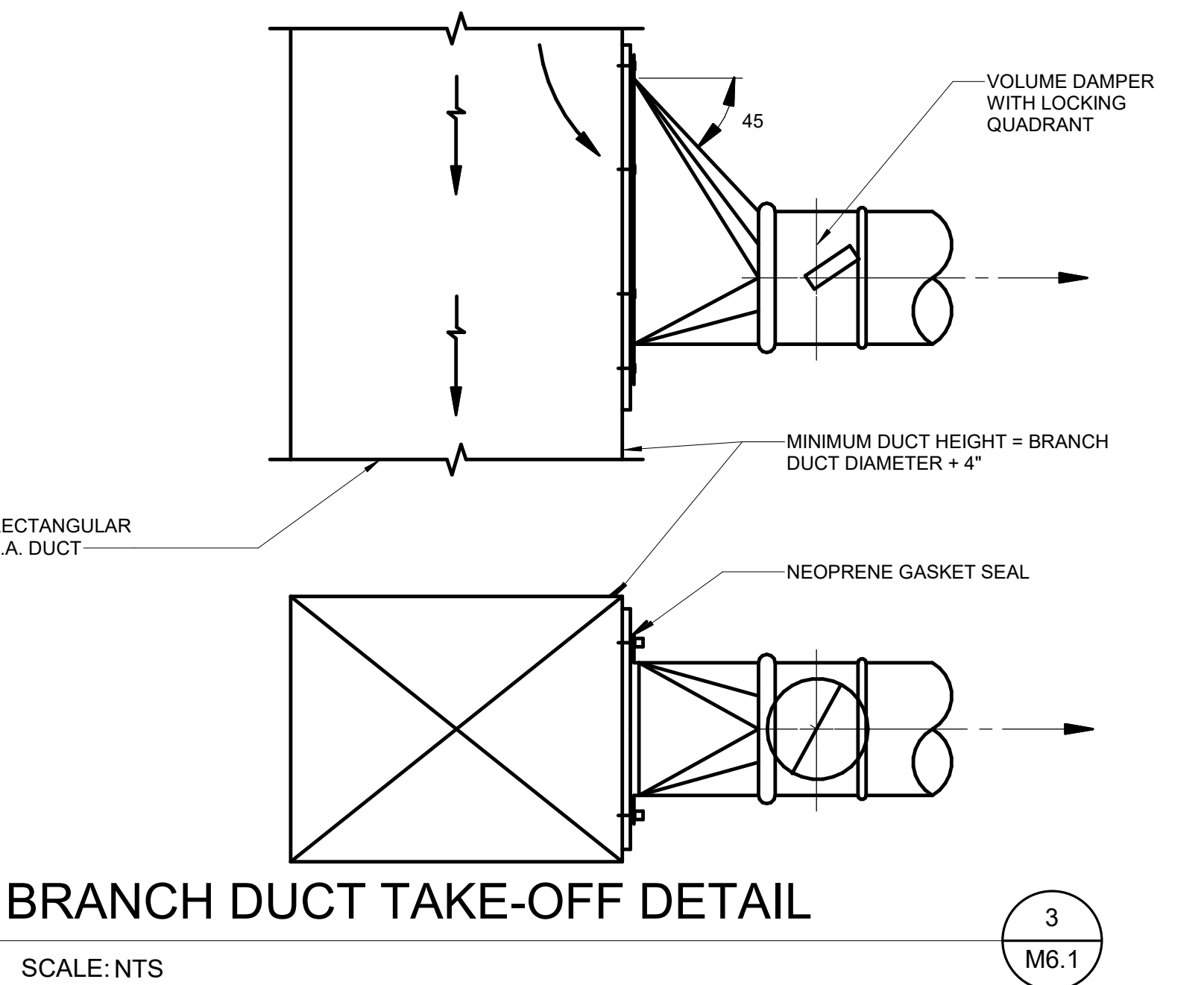
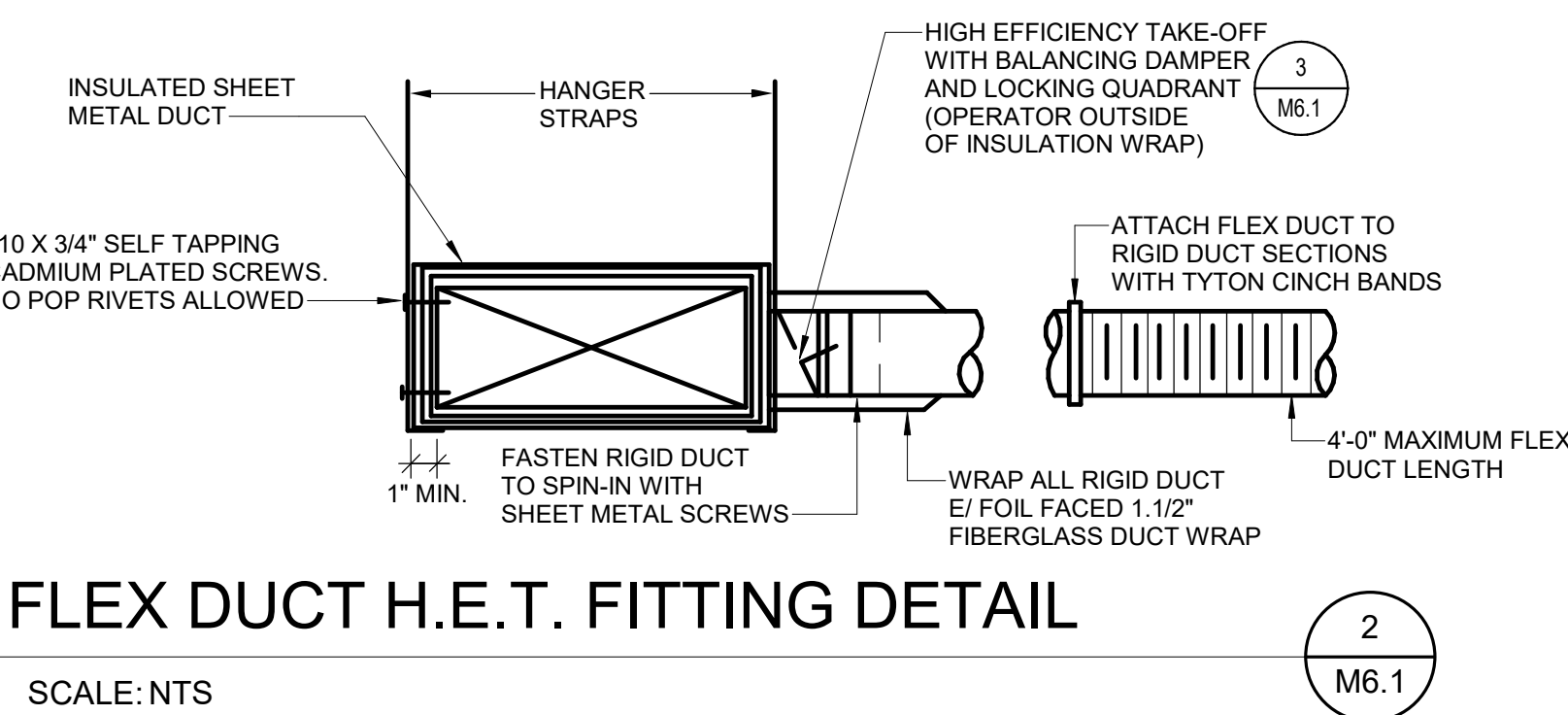
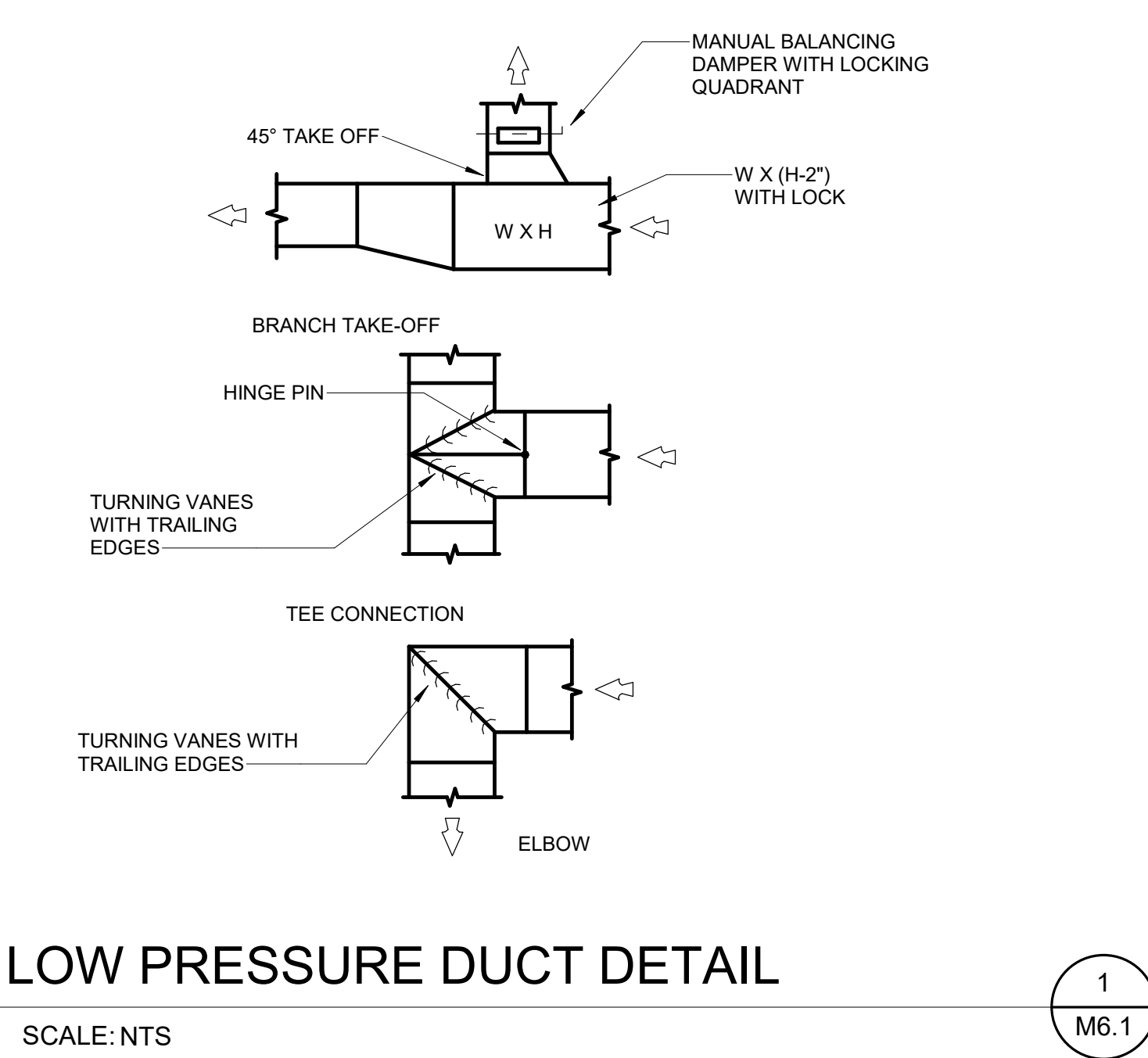
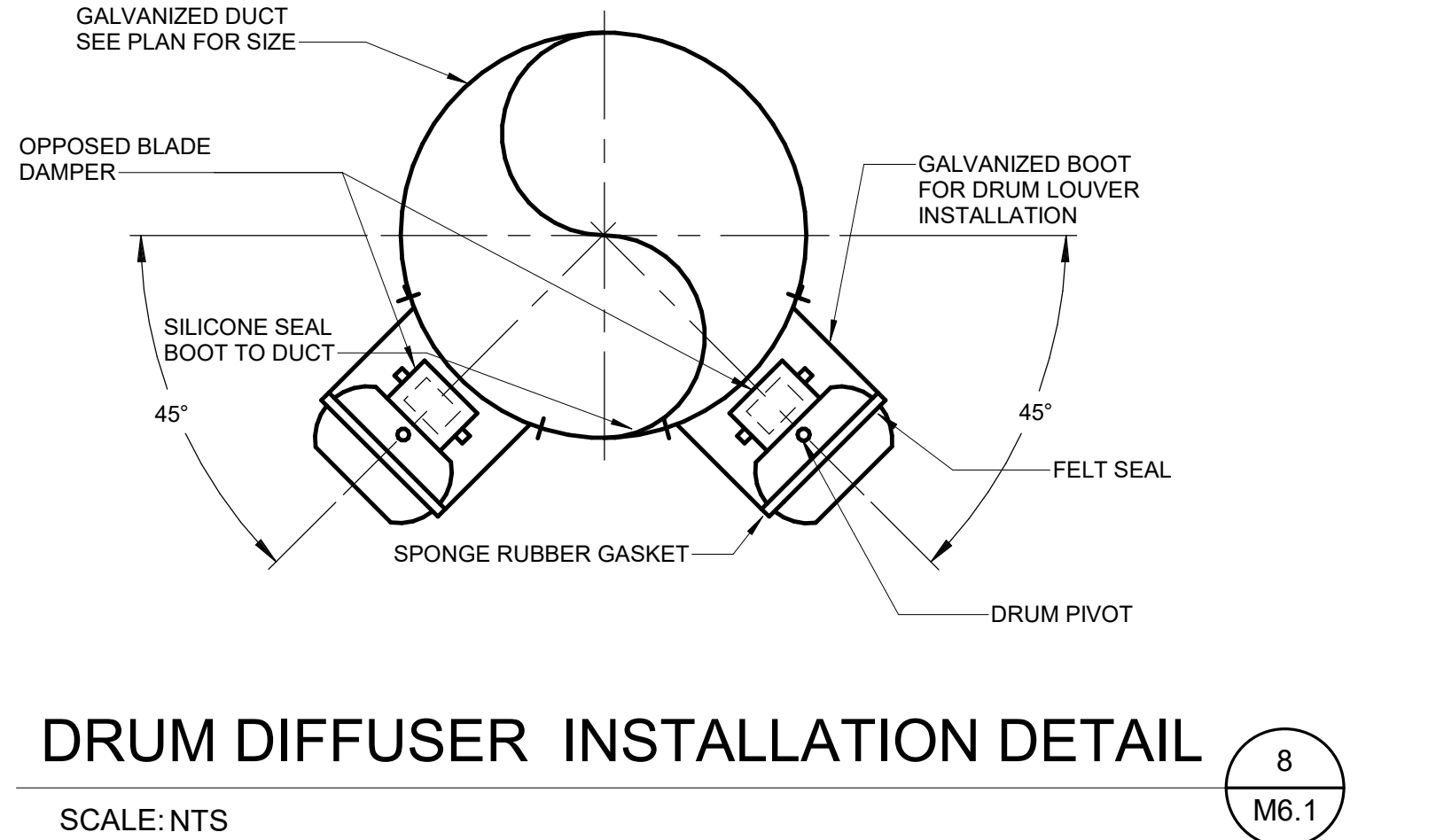
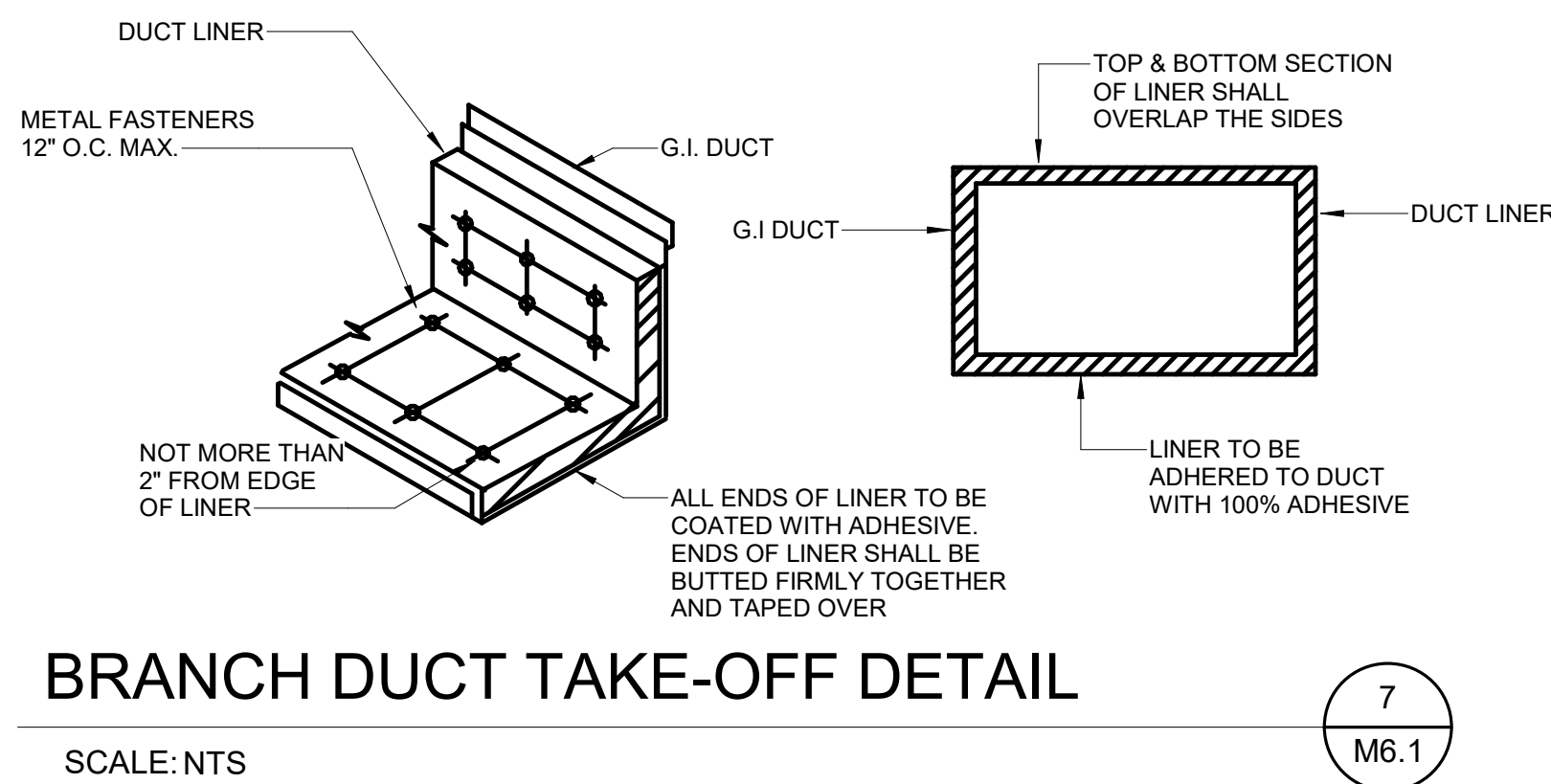
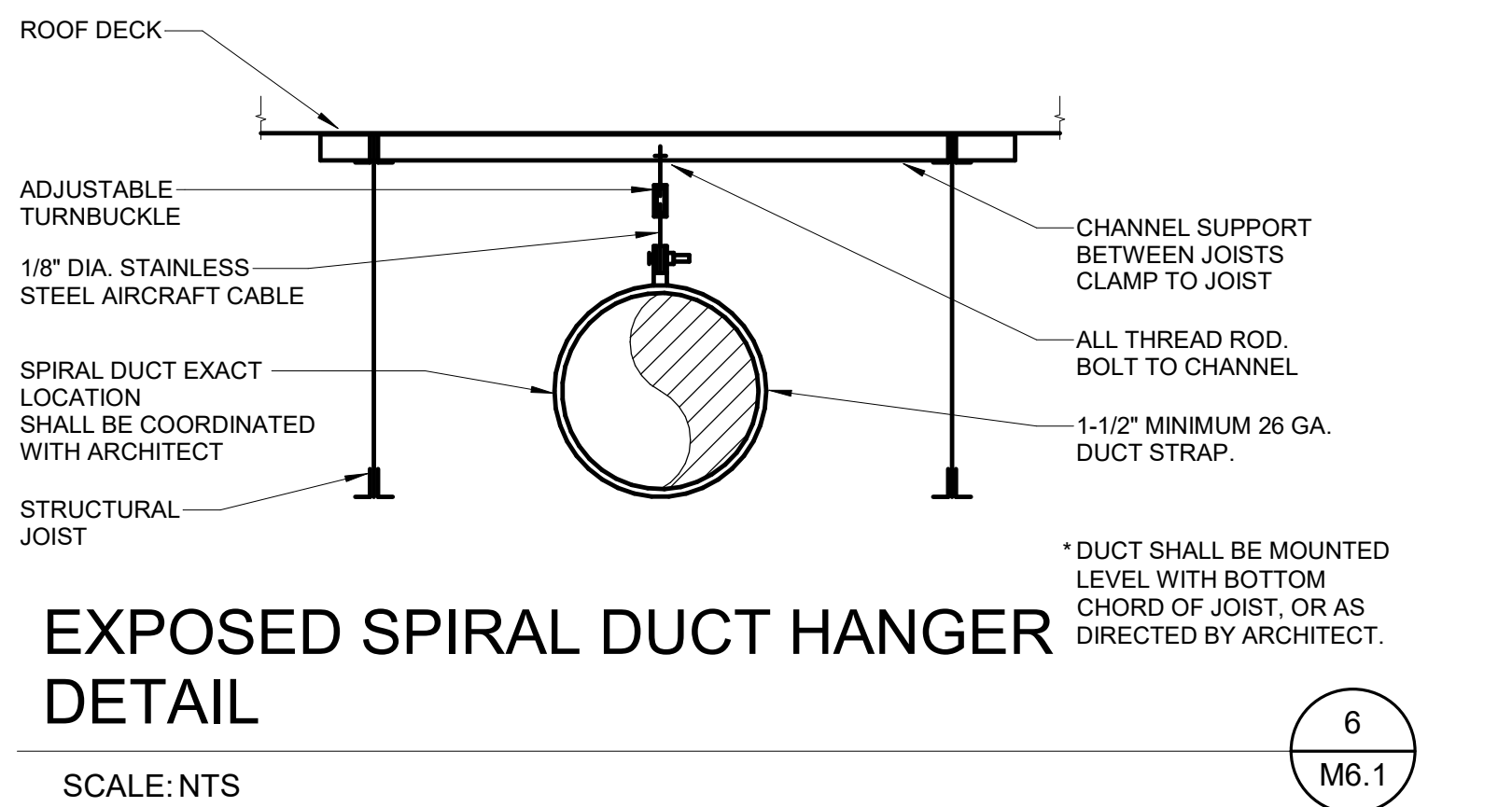
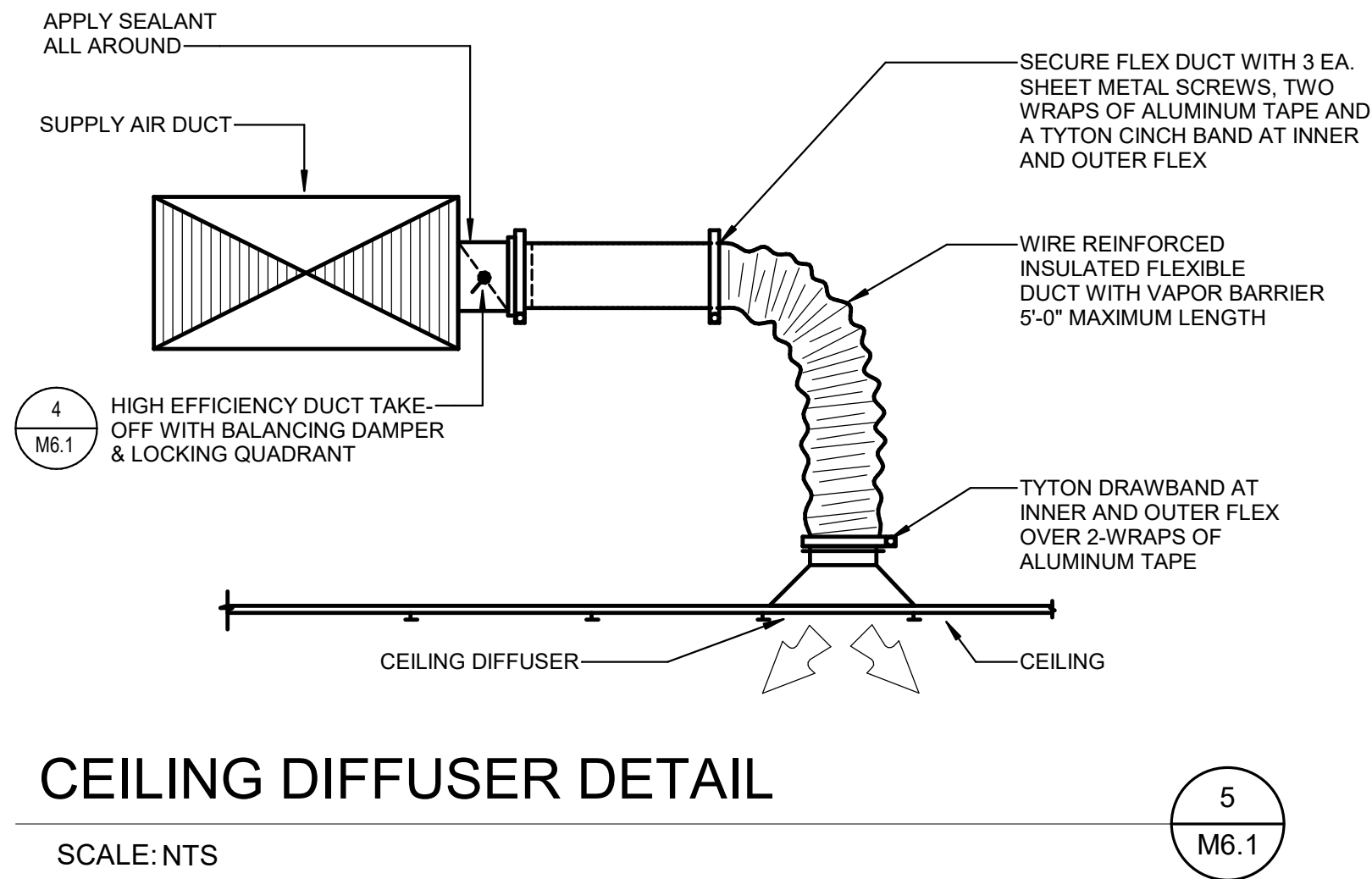
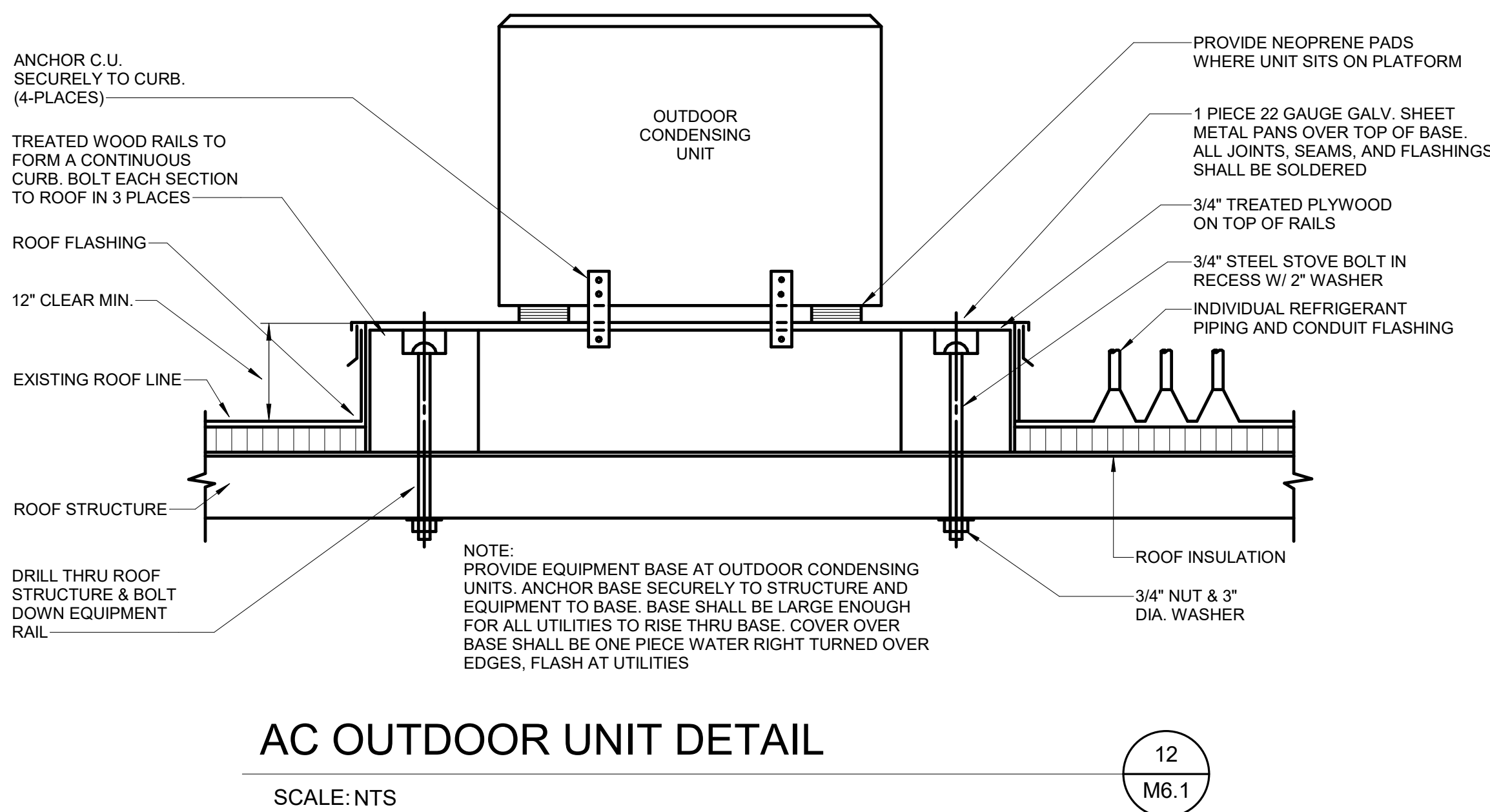
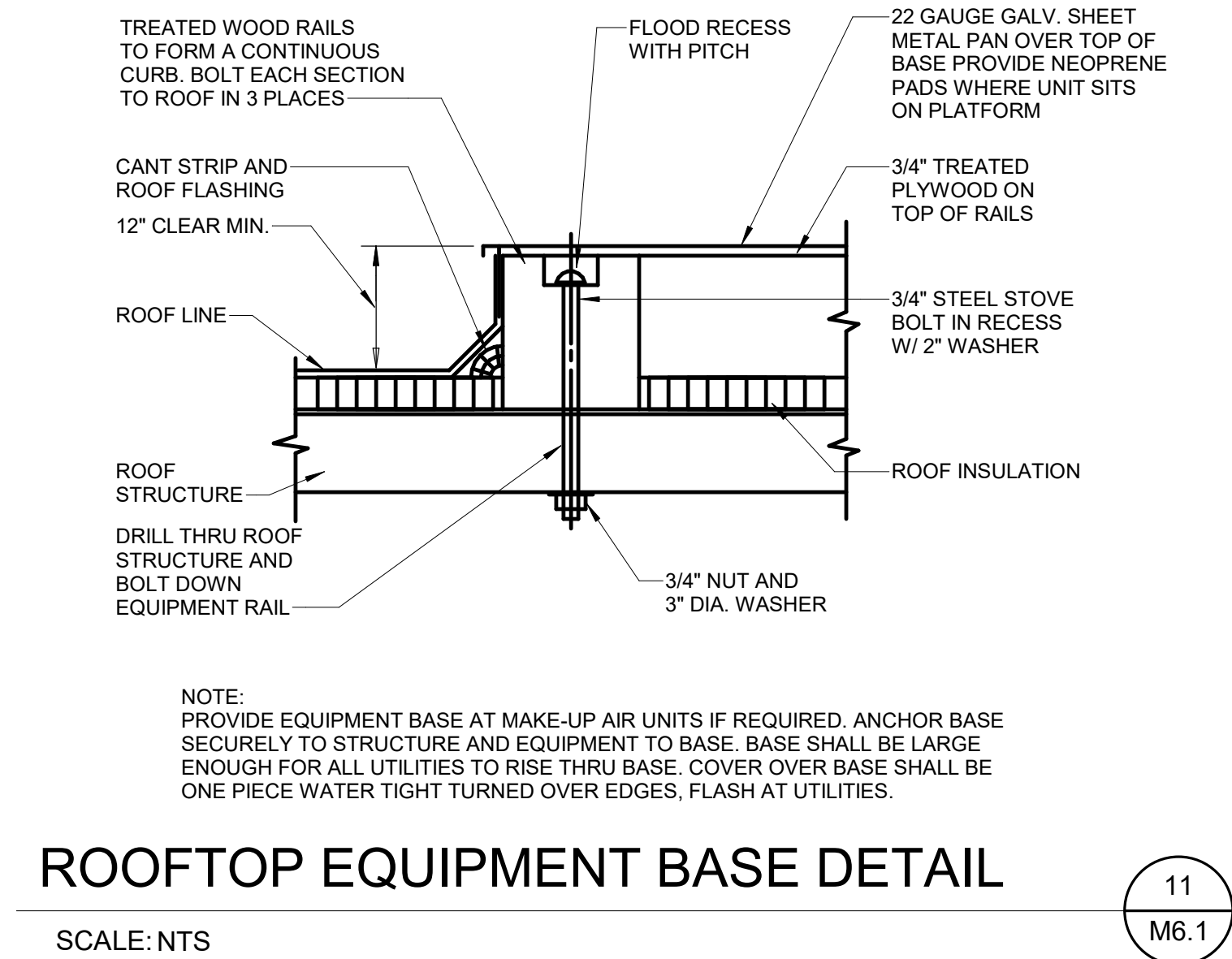
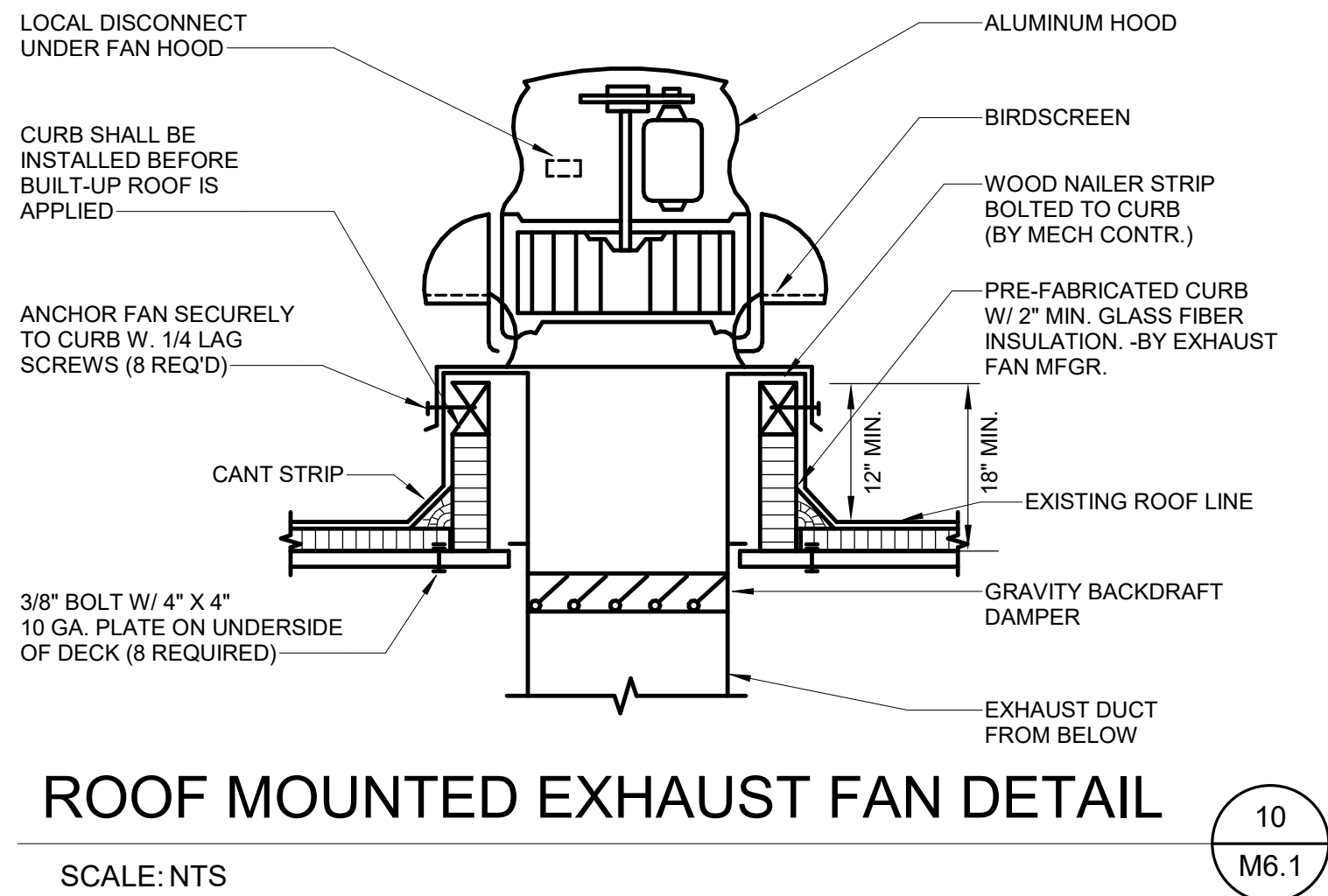
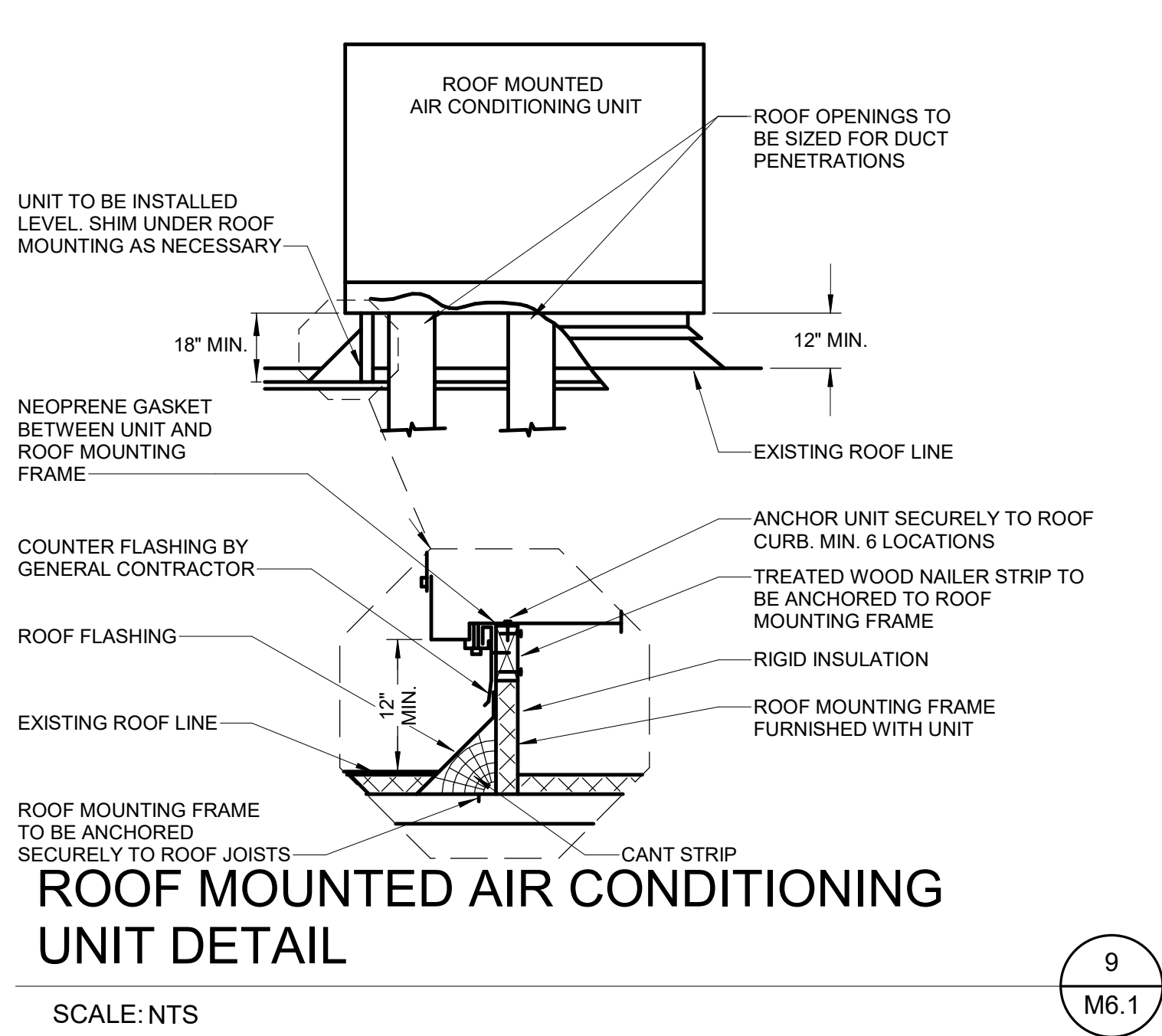
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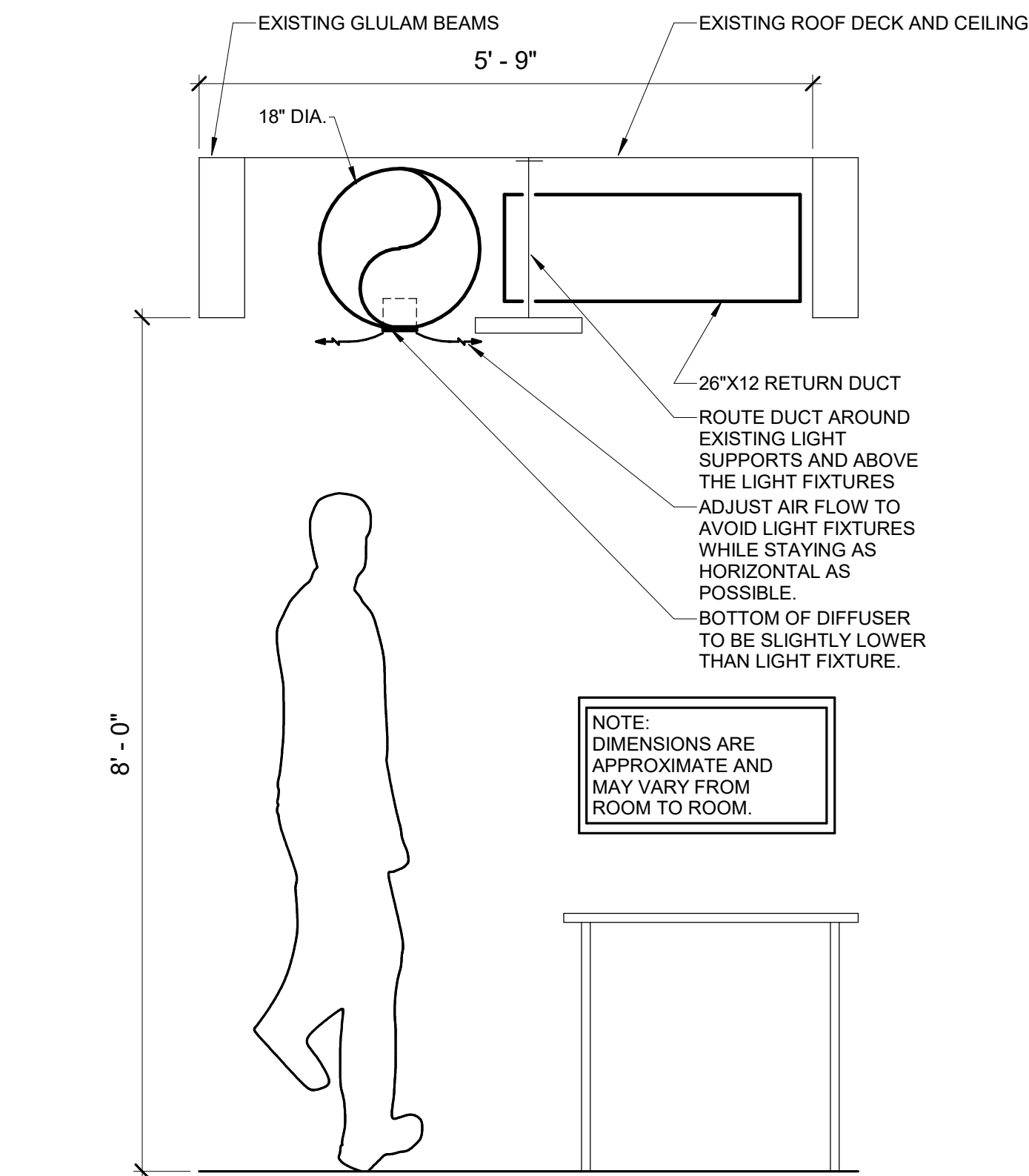
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DATE: JAN. 2026
PROJECT #: 176525

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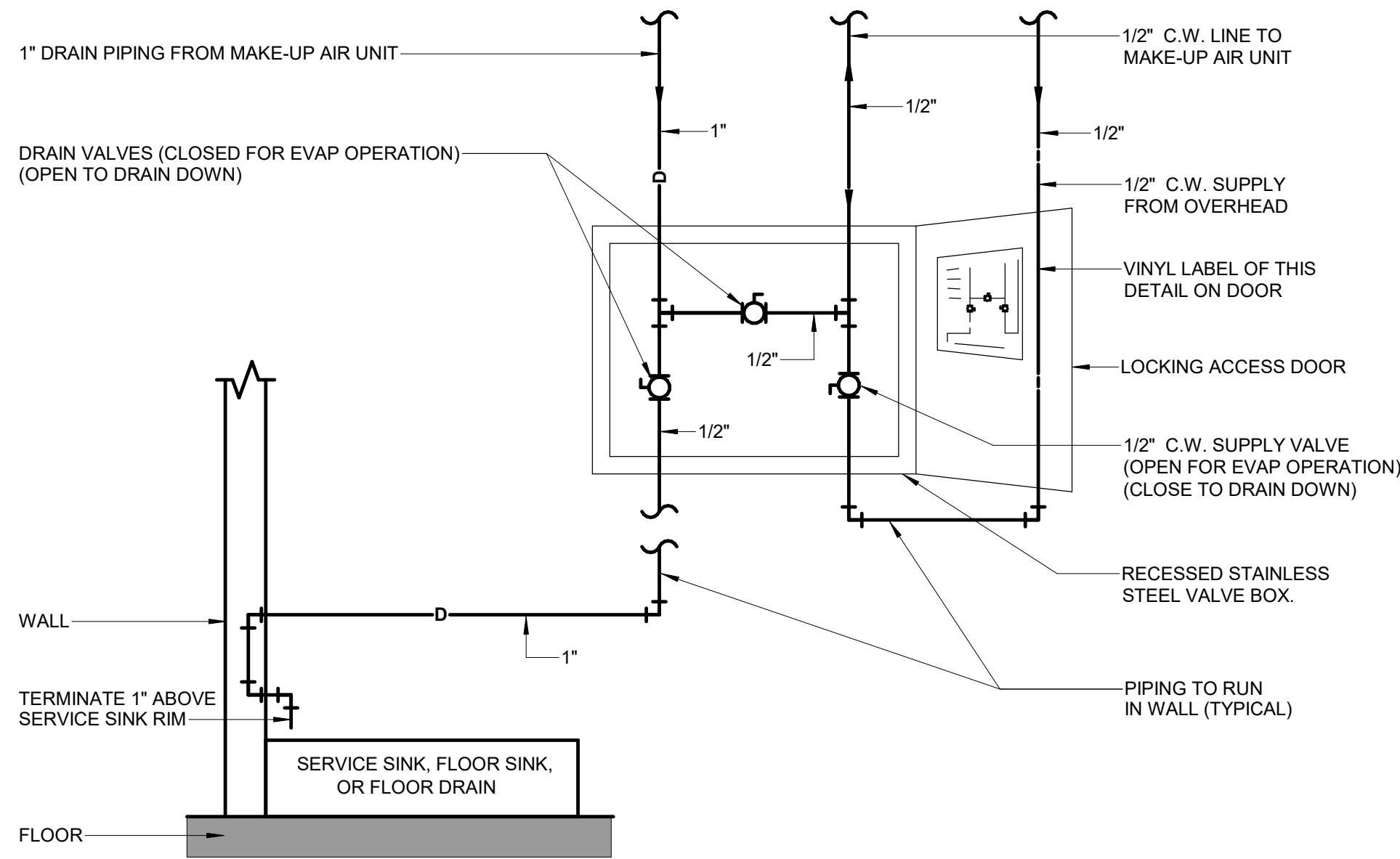




TYPICAL CLASSROOM DIFFUSER

SCALE: NTS

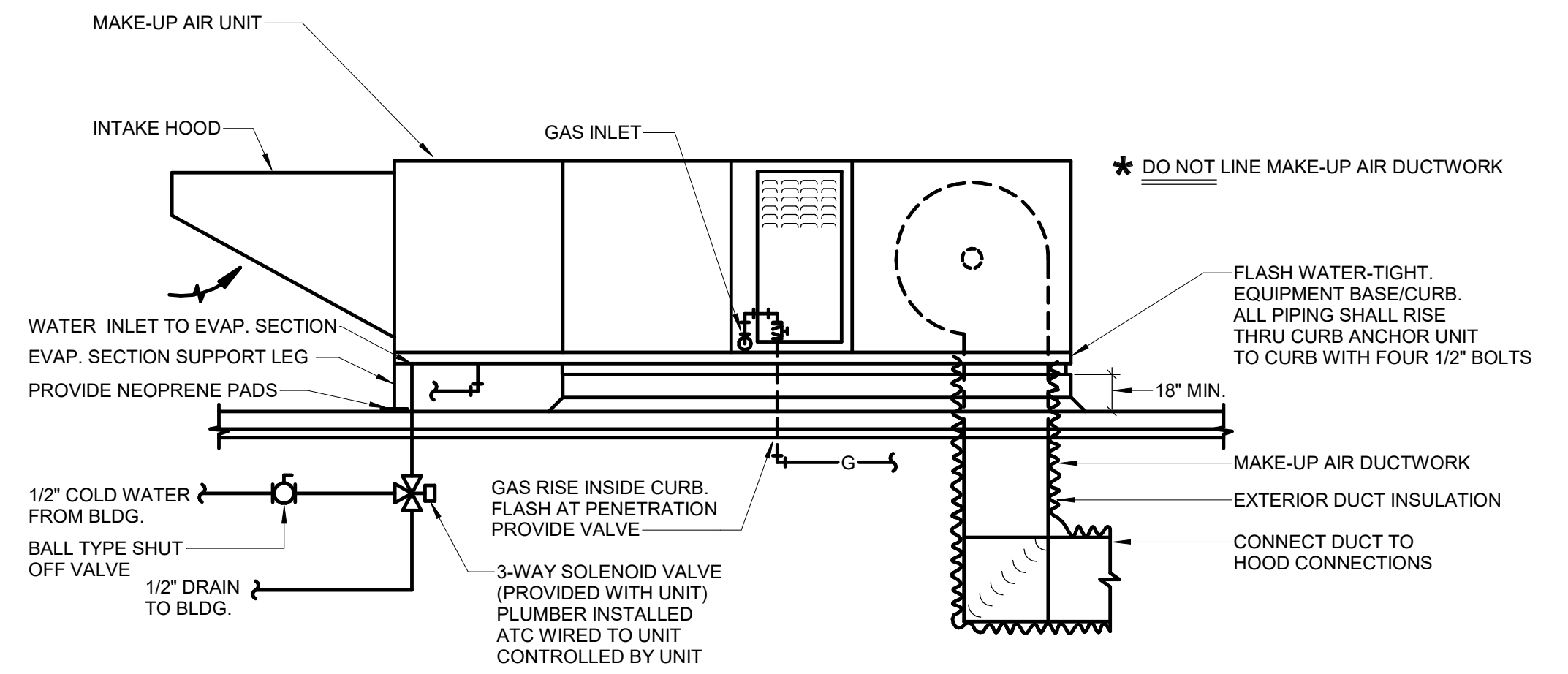
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M6.2



MAKE-UP UNIT WATER SUPPLY & DRAIN DETAIL

SCALE: NTS

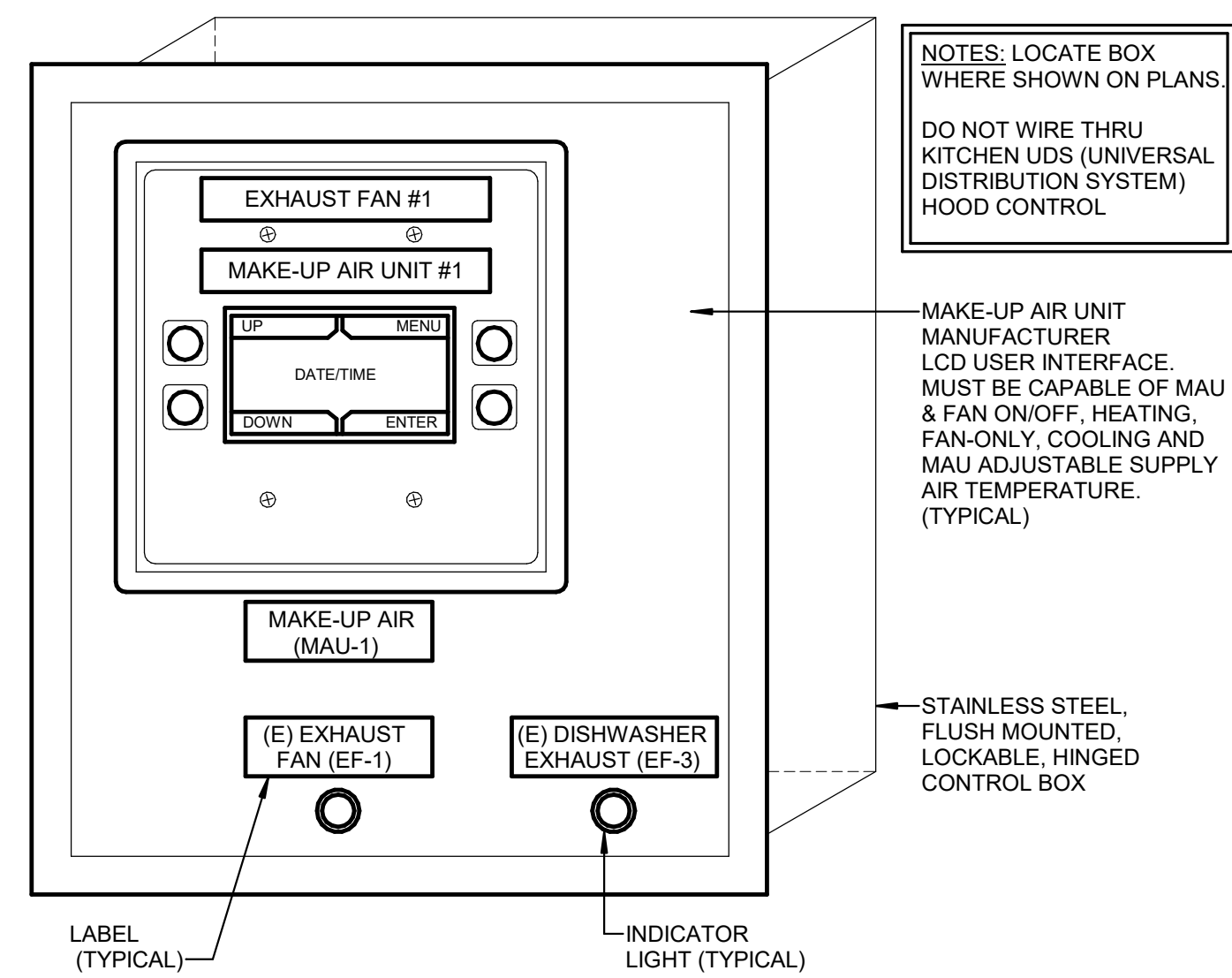
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M6.2



MAKE-UP AIR UNIT DETAIL

SCALE: NTS

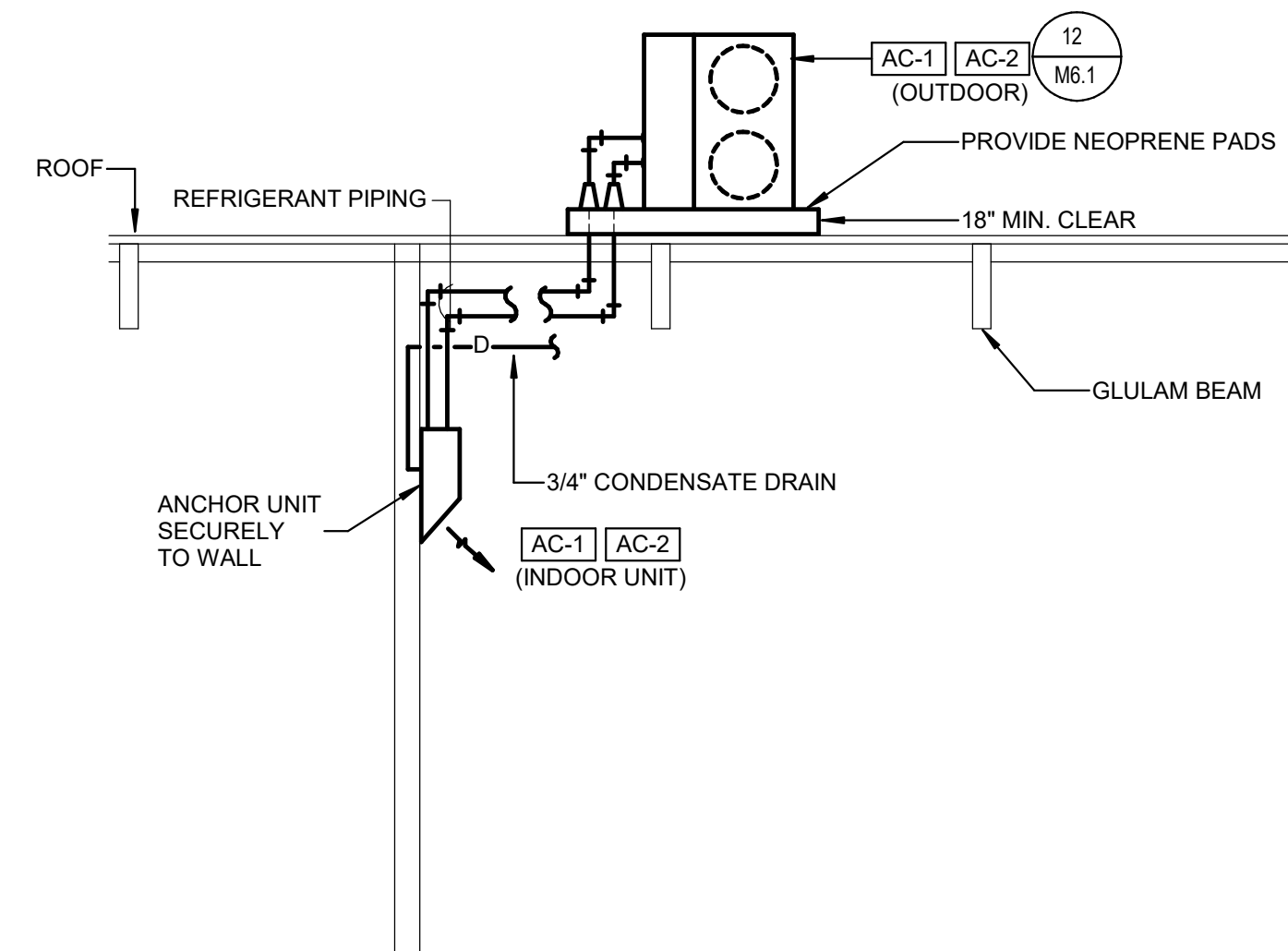
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M6.2



MAKE-UP AIR UNIT AND KITCHEN EXHAUST CONTROL PANEL DETAIL

SCALE: NTS

2
M6.2



ROOM AC UNIT DETAIL

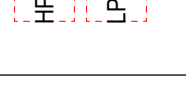
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3
M6.2








POWER TAGS LEGEND

NOTES:

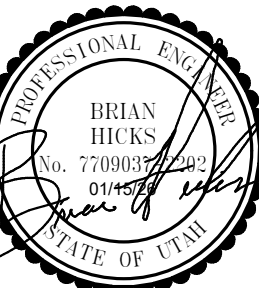
- 1. HATCHED FILL INDICATES SWITCHBOARD OR POWER DISTRIBUTION PANEL.
- 2. SOLID FILL INDICATES BRANCH PANEL OR LOAD CENTER.
- 3. DASHED BOX INDICATES CODE-REQUIRED CLEARANCE (WIDTH & DEPTH).
- 4. DOOR INDICATES FRONT OF RECESSED PANEL.



The diagram shows three panels labeled MGP, HPFA, and LPTA. MGP and HPFA are filled with diagonal hatching, while LPTA is filled with a solid dark gray. Each panel is enclosed in a dashed rectangular box. MGP is on the left, HPFA is in the middle, and LPTA is on the right.

DATA NETWORK SYMBOLS LEGEND			
SYMBOL	DEVICE/FEATURE DESCRIPTION	MOUNTING	NOTES
	W WALL	F FLOOR	C CEILING
	DATA OUTLET (SINGLE CABLE)	1" WALL FLOOR/CEILING	7, 24, 30
	DATA OUTLET (TWO CABLES)	1" WALL FLOOR/CEILING	7, 24, 30
	DATA OUTLET (THREE CABLES)	1" WALL FLOOR/CEILING	7, 24, 30
	WIRELESS ACCESS POINT*	9" WALL CEILING	7, 24, 30
	SERIES-X COAXIAL CABLE OUTLET	1" WALL FLOOR/CEILING	7, 24, 30
	DISTRIBUTED ANTENNA SYSTEM (DAS)	18" WALL, CEILING, ABOVE CEILING, OR AS NOTED	7, 24, 30
	PUBLIC SAFETY AND/OR CELLULAR COMMERCIAL		
	ANT: ANTENNA		
	BD: BI-DIRECTIONAL AMPLIFIER		
	SPL: SPLITTER		

IDENTITY INFORMATION			ELECTRICAL			LOAD INFORMATION			OCPD			CIRCUIT INFORMATION			STARTER			CONTROL			DISCONNECT			INTERLOCK		NOTES				
TYPE	INSTANCE ID	DESCRIPTION	VOLTAGE	PHASE	MOTOR POWER	APPARENT POWER	REAL POWER	FLA	MCA	EM POWER	TYPE	TYPE	PHASE	CONDUCTORS	NEUTRAL CONDUCTOR	GROUND CONDUCTOR	CONDUIT SIZE	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	TYPE	FURNISH		INSTALL			
AC	-1	AIR COOLED OUTDOOR UNIT	208V	-	1.00 hp	2.55VA	2.23kW	12A	15A	0	Motor Inverse Time Breaker	20A	1	2	12	Cu	None	12	Cu	3/4"	EA	EC	EC	MC	MC	MC	7A	EA	EC	EC
CUH	-1	CABINET HEATER	208V	-	3.00 hp	6.51VA	5.89 kW	18A	22.5A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	7A	EA	EC	EC
CUH	-2	CABINET UNIT HEATER	208V	-	3.00 hp	6.51VA	5.89 kW	18A	22.5A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
CUH	-3	ELECTRIC UNIT HEATER	208V	-	3.00 hp	6.51VA	5.89 kW	18A	22.5A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
ELH	-1	ELECTRIC UNIT HEATER	208V	-	3.00 hp	6.51VA	5.89 kW	18A	22.5A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
EF	-1	EXHAUST FAN	120V	-	1.00 hp	5.88VA	5.33 kW	16.2A	19.2A	0	Motor Inverse Time Breaker	25A	1	3	12	Cu	None	12	Cu	3/4"	EA	EC	EC	MC	MC	MC	4A	EA	EC	EC
EF	-3	EXHAUST FAN	120V	-	1.00 hp	5.88VA	5.33 kW	16.2A	19.2A	0	Motor Inverse Time Breaker	25A	1	3	12	Cu	None	12	Cu	3/4"	EA	EC	EC	MC	MC	MC	4A	EA	EC	EC
EF	-3	EXHAUST FAN	120V	-	1.00 hp	5.88VA	5.33 kW	16.2A	19.2A	0	Motor Inverse Time Breaker	25A	1	3	12	Cu	None	12	Cu	3/4"	EA	EC	EC	MC	MC	MC	4A	EA	EC	EC
MAU	-1	MAKEUP AIR UNIT	208V	-	3.750 hp	8.71VA	7.85kW	24.2A	27.6A	0	Motor Inverse Time Breaker	40A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
RT	-1	ROOF TOP UNIT	208V	-	3.00 hp	6.33VA	5.76 kW	17.6A	22A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
RT	-2	ROOF TOP UNIT	208V	-	3.00 hp	6.33VA	5.76 kW	17.6A	22A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
RT	-3	ROOF TOP UNIT	208V	-	3.00 hp	6.33VA	5.76 kW	17.6A	22A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
RT	-4	ROOF TOP UNIT	208V	-	3.00 hp	6.33VA	5.76 kW	17.6A	22A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
RT	-5	ROOF TOP UNIT	208V	-	3.00 hp	6.33VA	5.76 kW	17.6A	22A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
RT	-6	ROOF TOP UNIT	208V	-	3.00 hp	6.33VA	5.76 kW	17.6A	22A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
RT	-7	ROOF TOP UNIT	208V	-	3.00 hp	6.33VA	5.76 kW	17.6A	22A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC	EC	MC	MC	MC	2A	EA	EC	EC
RT	-8	ROOF TOP UNIT	208V	-	3.00 hp	6.33VA	5.76 kW	17.6A	22A	0	Motor Inverse Time Breaker	30A	1	3	10	Cu	None	10	Cu	3/4"	EA	EC								



DRAWN BY: MK
CHECKED BY: ES
DATE: JAN. 2026
PROJECT #: 176525

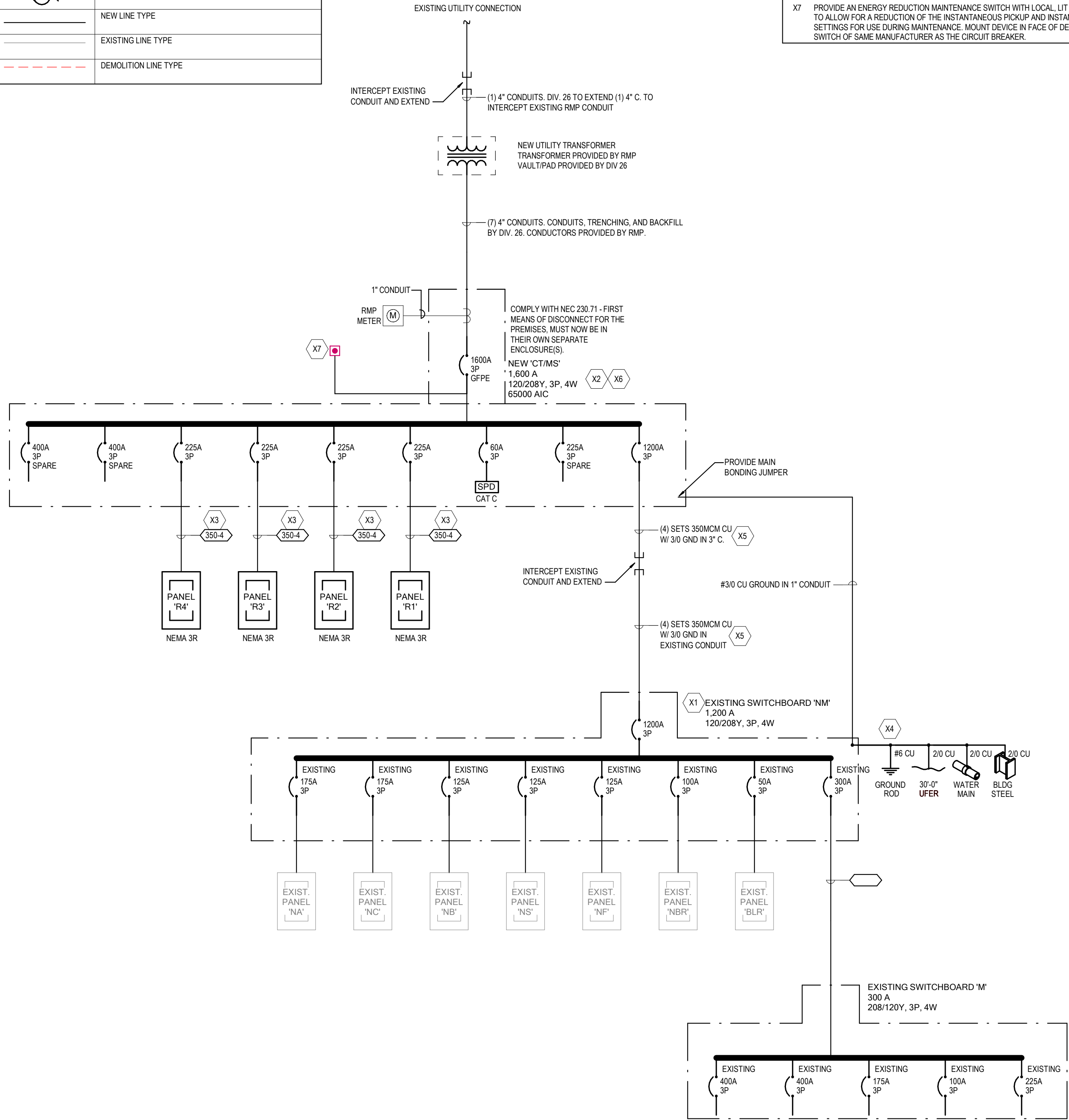
EG002

ELECTRICAL ONE-LINE SYMBOL DIAGRAM			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GENERATOR		POWER PANEL
			TRANSFER SWITCH
			TRANSFORMER
			AC / DC INVERTER
			FUSED DISCONNECT
			MAGNETIC STARTER / DISCONNECT
			SURGE PROTECTION
			CURRENT TRANSFORMER
			FEED THRU METER
			CT METER
			CIRCUIT BREAKER
			FUSED SWITCH
			UNFUSED SWITCH
			MOTOR
			NEW LINE TYPE
			EXISTING LINE TYPE
			DEMOLITION LINE TYPE

K13 RATED COPPER TRANSFORMER SCHEDULE																		
PRIMARY (LINE) SIDE 480D, 3P, 3W											SECONDARY (LOAD) SIDE 208/120Y, 3P, 5W, 200% NEUTRAL							
TRANS KVA	O.C. PROT.	TYPE COND.*	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	GROUND/ COND.	CONDUIT SIZE	GEC ①	MIN. Z%	O.C. PROT.	TYPE COND.*	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	CONDUIT SIZE	BONDING JUMPER ②
15	30	P015	30	1	3	10	10	3/4"	10	3	60	S015-2	68	1	5	3	2"	8
30	50	P030	50	1	3	6	8	1"	6	3	100	S030-2	120	1	5	1/0	2"	6
45	70	P045	70	1	3	4	8	1-1/4"	2	3	175	S045-2	184	1	5	4/0	3"	2
75	125	P075	125	1	3	1/0	6	2"	2	3	225	S075-2	248	1	5	350	3"	2
112.5	175	P112	175	1	3	2/0	6	2"	1/0	4	400	S112-2	408	2	5	250	3"	1/0
150	300	P150	310	1	3	350	3	3"	2/0	4	600	S150-2	608	2	5	500	4"	2/0
225	400	P225	380	1	3	500	3	4"	3/0	4	800	S225-2	804	3	5	400	4"	3/0
300	600	P300	620	2	3	350	1	3"	3/0	5	1200	S300-2	1216	4	5	500	4"	250
500	800	P500	760	2	3	500	1/0	4"	3/0	5	1600	S500-2	1608	6	5	400	4"	300
750	1200	P750	1260	4	3	350	3/0	3"	3/0	5	3000	S750-2	3040	10	5	500	4"	750

NOTES:
① GROUNDING ELECTRODE CONDUCTOR, (NEC 250.66)
② SUPPLY SIDE BONDING JUMPER, (NEC 250.102 (C)(1))

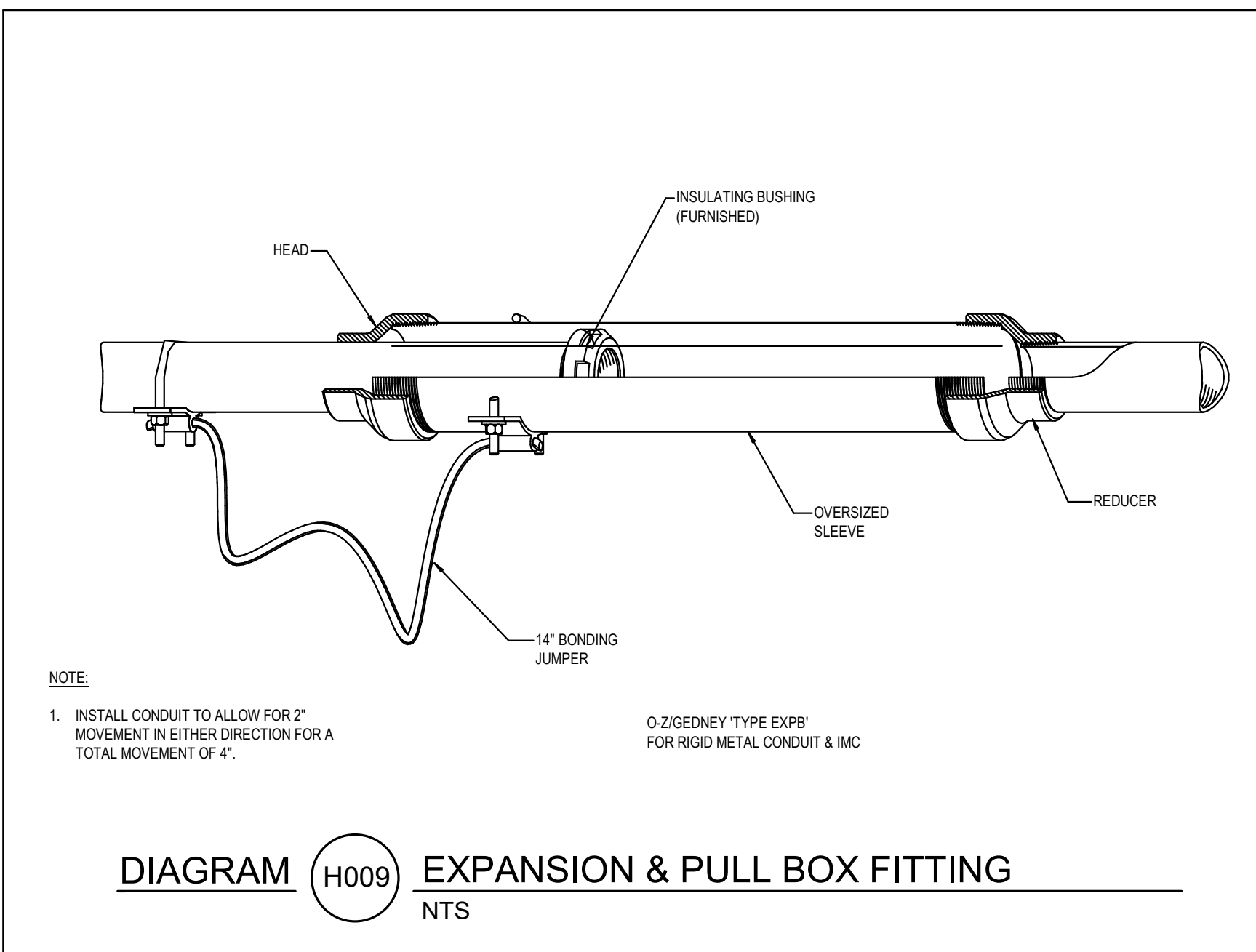
- KEYNOTES**
- X1 EXISTING GENERAL ELECTRIC AL LINE 1200A 208Y 3P SWITCHBOARD TO REMAIN AND BE PROTECTED IN PLACE. SWITCHBOARD NM TO BE BACKED FROM NEW CTMS. INTERCEPT AND EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW CTMS.
- X2 PROVIDE A PERMANENT PLAC (E. ALJUGENT) TO THE MAIN SWITCHBOARD WITH AVAILABLE FAULT CURRENT CALCULATIONS.
- X3 FEEDER UPRISED FOR VOLTAGE DROP. PROVIDE ALL REQUIRED LUG ADAPTERS, PIN REDUCERS, POLARIS LUG KITS, ETC. AS REQUIRED. PROVIDE NEC SIZED JUNCTION BOX AHEAD OF PANELBOARD/GEAR AS NEEDED TO LOCATED AND TERMINATE CONDUCTORS ON POLARIS LUG ADAPTERS (NIP FROM FINAL TERMINATION AT PANELBOARD) J.E. SIZE DOWN TO CONDUCTORS THAT FIT THE AVAILABLE LUGS AND/OR BREAKERS.
- X4 REWORK THE EXISTING GROUNDING AND BONDING SYSTEM. REWORK AND PROVIDE NEW UFER AND BONDING CONNECTIONS AS REQUIRED TO MAKE ONE UNIFIED GROUNDING SYSTEM WITH THE NEW EXTERIOR CTMS.
- X5 EXISTING CONDUIT TO BE INTERCEPTED AND EXTENDED TO NEW CTMS. PROVIDE NEW CONDUCTORS THROUGHOUT. FIELD VERIFY EXISTING CONDUCTOR SIZE AND MATCH WITH NEW CONDUCTORS. FIELD VERIFY EXISTING CONDUIT SIZE AND MATCH.
- X6 GFCI PROTECTION OF THE MAIN BREAKER SHALL BE TESTED PRIOR TO THE RELEASE OF THE METER AND RESULTS SHALL BE SUBMITTED TO THE OWNER/MS REPRESENTATIVE.
- X7 PROVIDE AN ENERGY REDUCTION MAINTENANCE SWITCH WITH LOCAL, LIT STATUS INDICATOR TO ALLOW FOR A REDUCTION OF THE INSTANTANEOUS PICKUP AND INSTANTANEOUS DELAY SETTINGS FOR USE DURING MAINTENANCE. MOUNT DEVICE IN FACE OF DEAD-FRONT. PROVIDE SWITCH OF SAME MANUFACTURER AS THE CIRCUIT BREAKER.

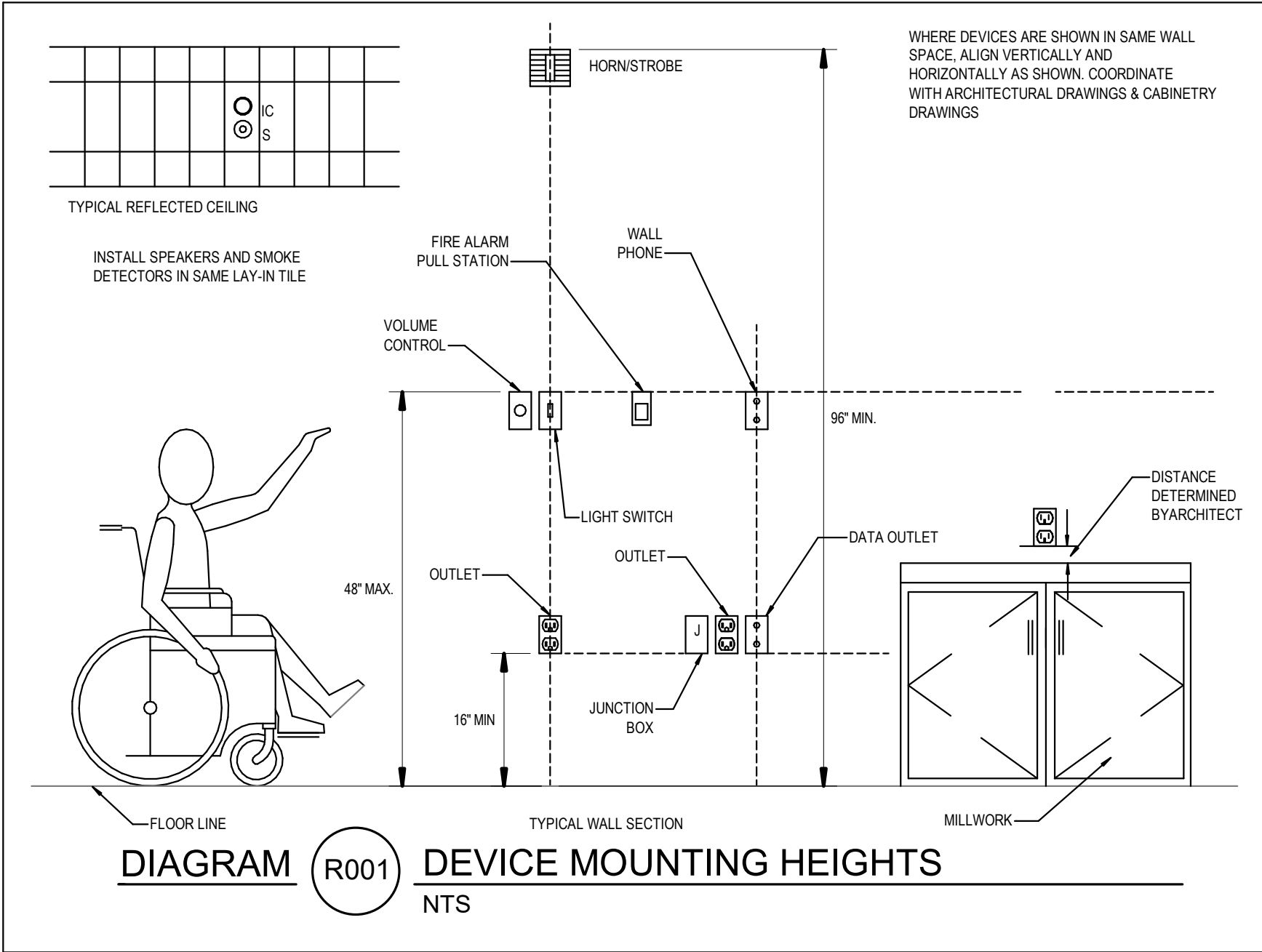
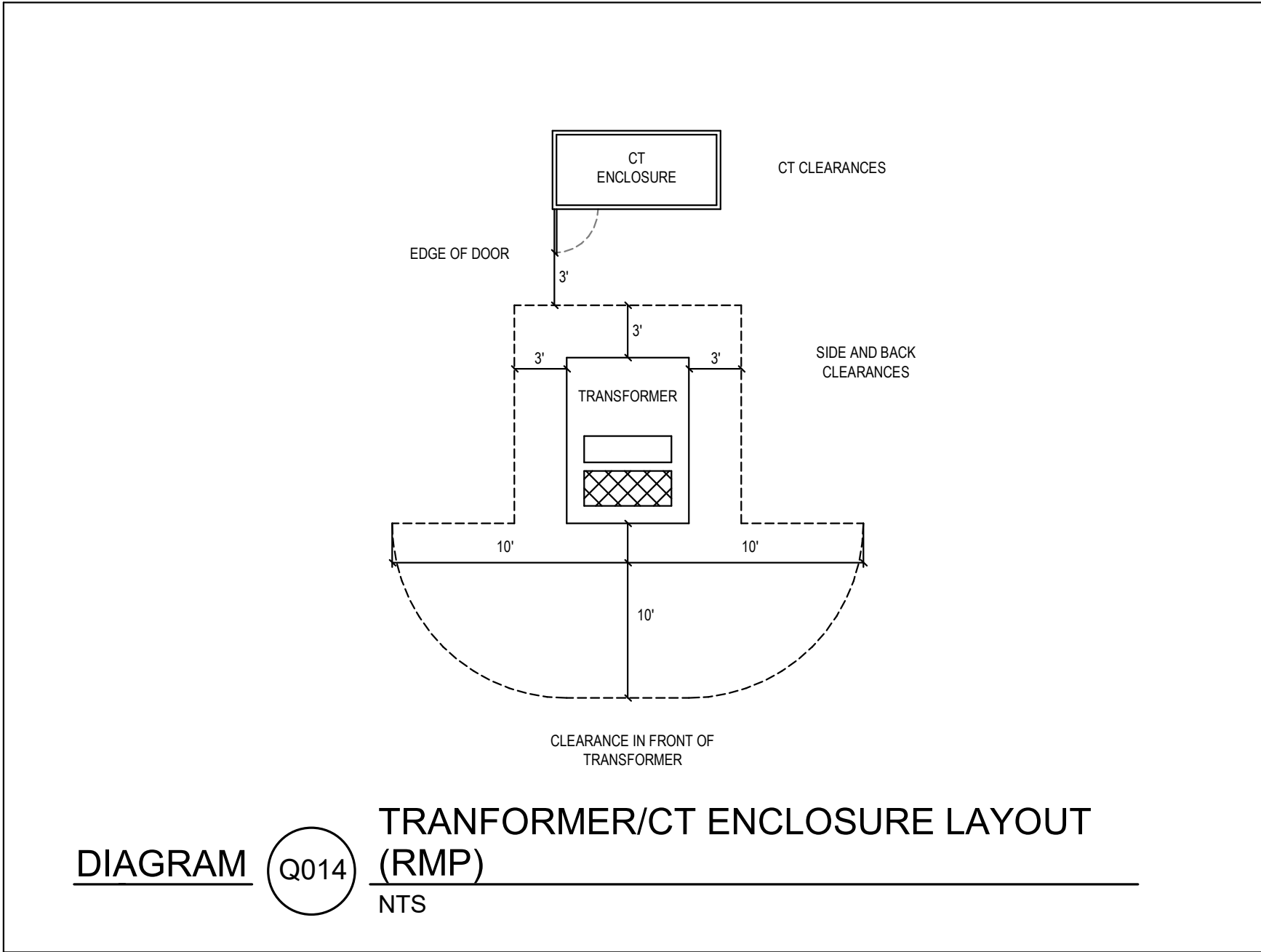
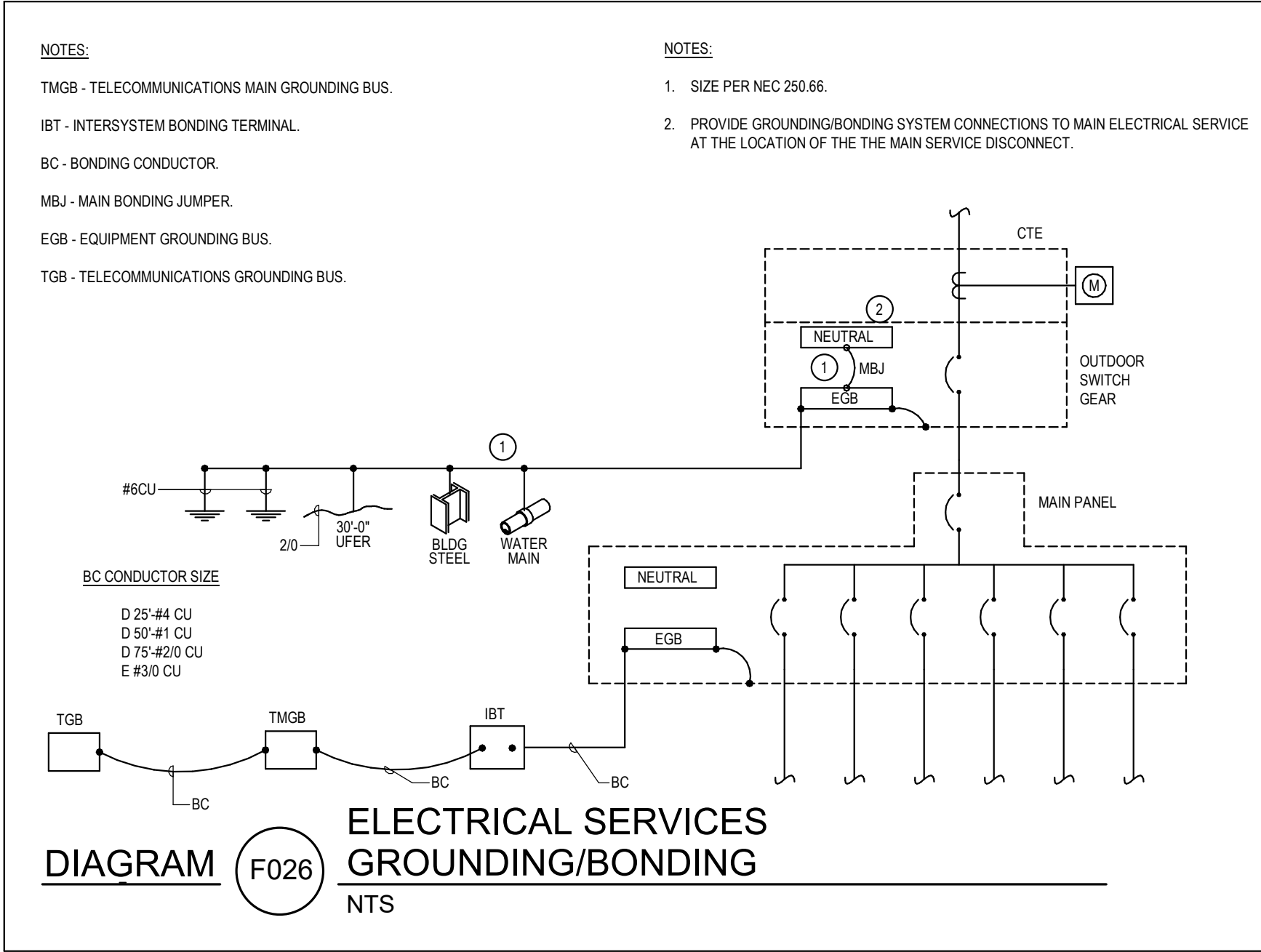
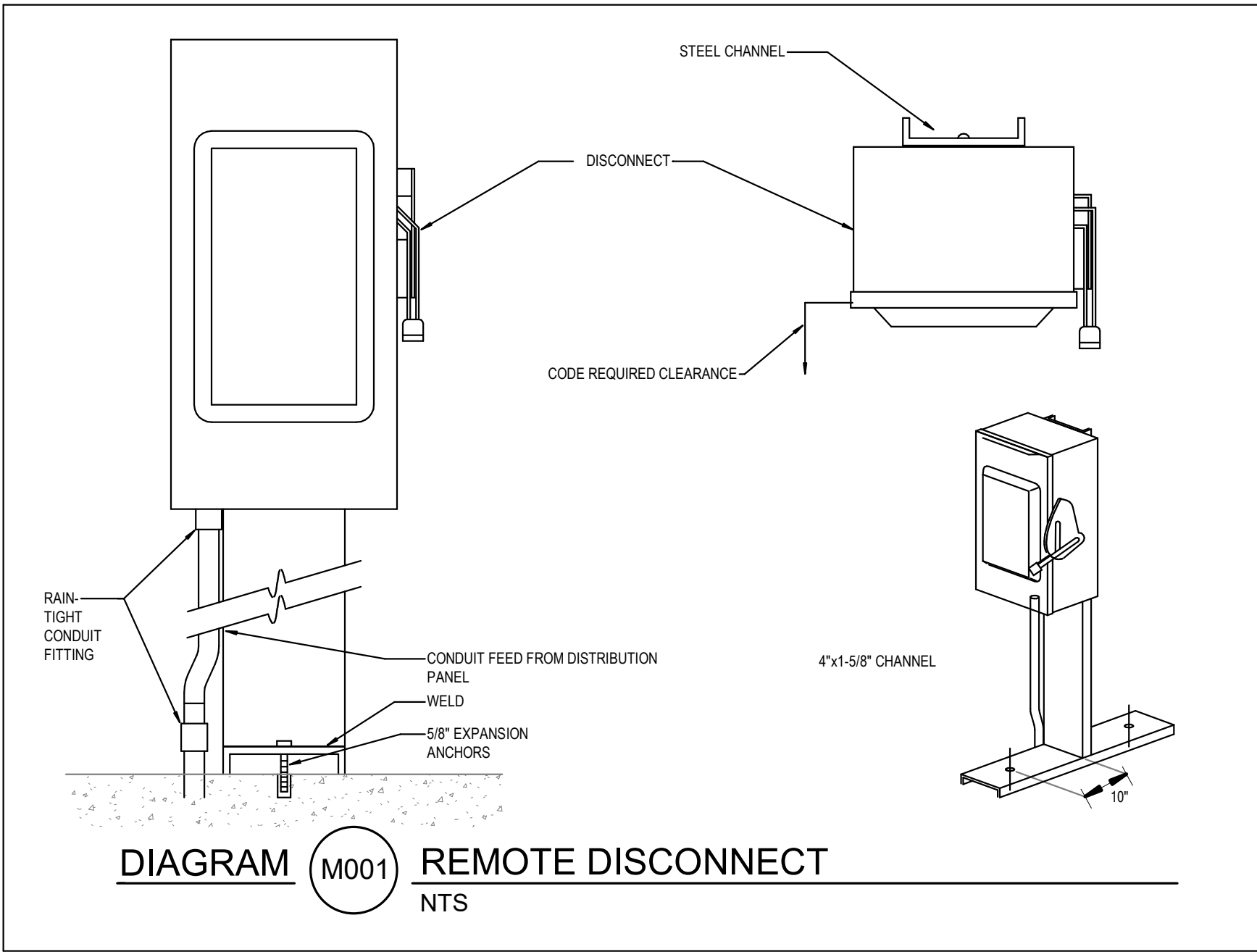
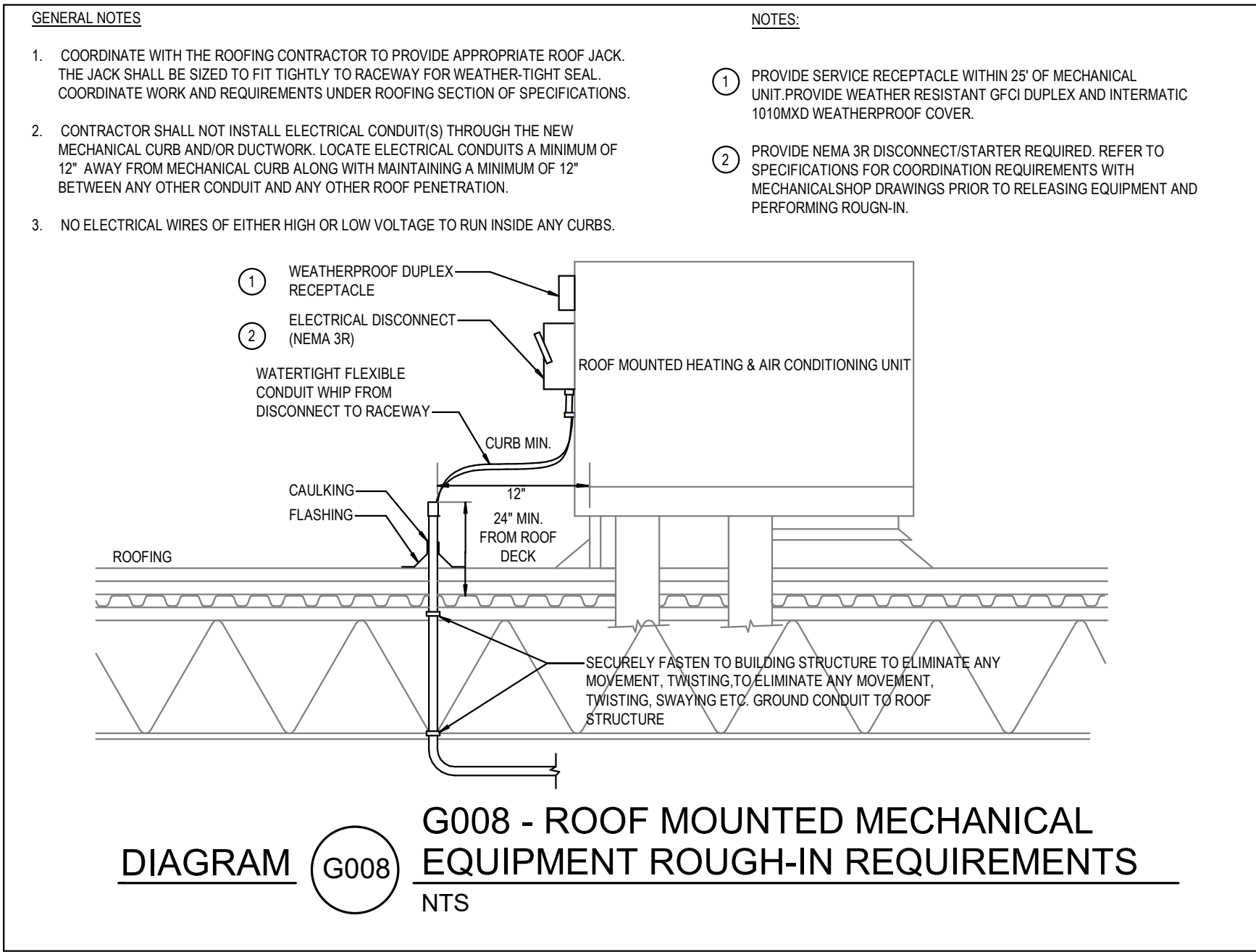
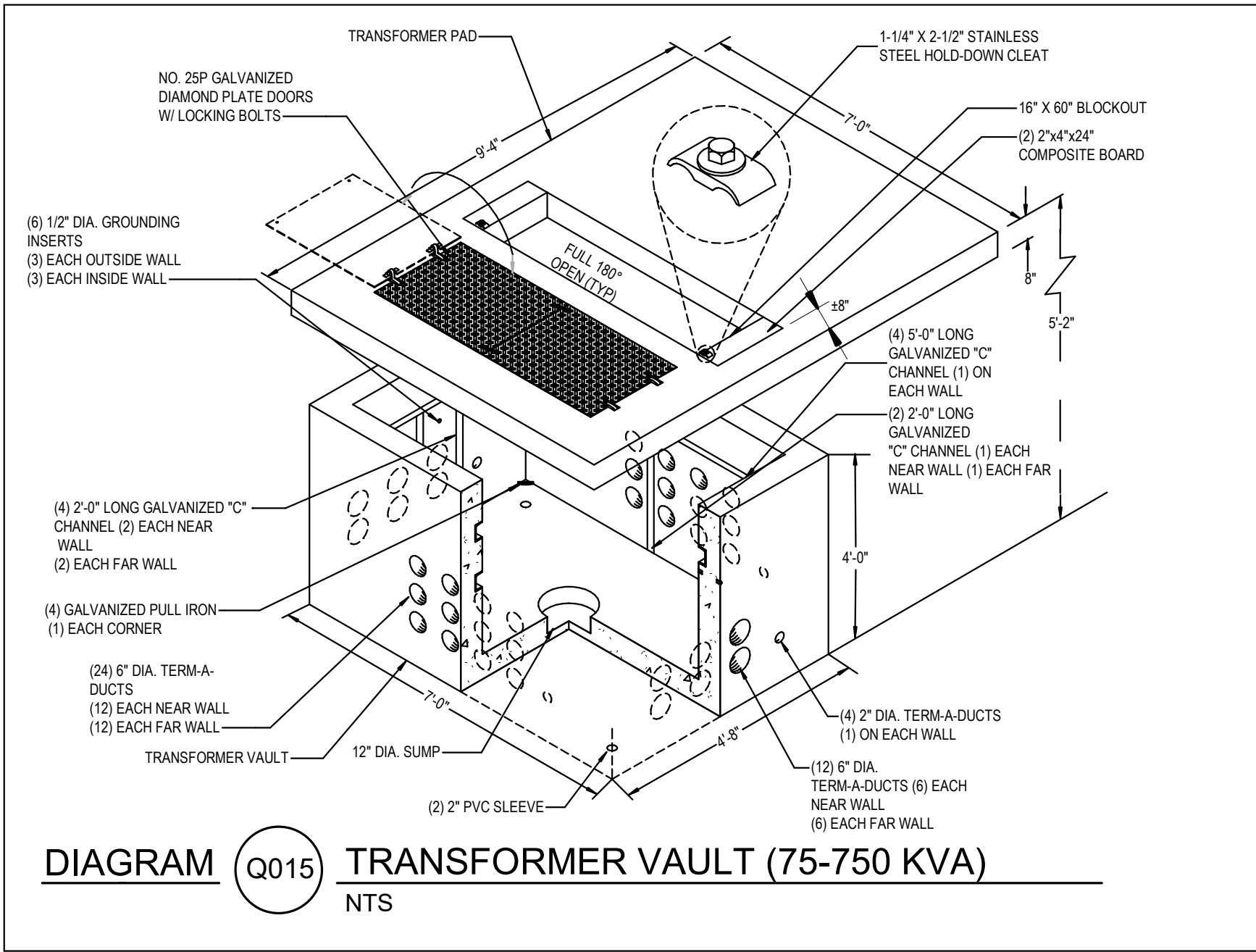


ALUMINUM CONDUCTOR & CONDUIT SCHEDULE							
TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	CONDUIT SIZE	EQ. GND. COND. (AL)
100-3	100	95	1	5'	10	2"	4
125-3	125	120	1	3	10	2"	4
125-4	125	120	1	4	10	2"	4
125-5	125	124	1	5'	30	3"	4
150-3	150	135	1	3	20	2"	4
150-4	150	135	1	4	20	2"	4
150-5	150	144	1	5'	40	3"	2
175-3	175	155	1	3	30	2"	4
175-4	175	155	1	4	30	2"	4
175-5	175	164	1	5'	250	3"	2
200-3	200	180	1	3	40	2"	4
200-4	200	180	1	4	40	3"	4
200-5	200	184	1	5'	300	3"	2
225-3	225	205	1	3	250	2"	2
225-4	225	205	1	4	250	3"	2
225-5	225	216	1	5'	400	3"	2
250-3	250	230	1	3	300	3"	2
250-4	250	230	1	4	300	3"	2
250-5	250	248	1	5'	500	4"	1
300-3	300	270	1	3	400	3"	2
300-4	300	270	1	4	400	3"	2
300-5	300	270	1	5'	600	4"	2
350-3	350	310	1	3	500	4"	1
350-4	350	310	1	4	500	4"	1
350-5	350	308	1	5'	750	4"	1
400-3	400	410	2	3	250	2-1/2"	20
400-4	400	410	2	4	250	2-1/2"	20
400-5	400	400	2	5'	350	3"	20
600-3	600	620	2	3	500	3"	20
600-4	600	620	2	4	500	3"	20
600-5	600	600	3	5'	350	3"	20
800-3	800	810	3	3	400	2-1/2"	30
800-4	800	810	3	4	400	3"	30
800-5	800	800	4	5'	350	4"	30
1000-3	1000	1155	3	3	750	4"	40
1000-4	1000	1155	3	4	750	4"	40
1000-5	1000	1000	5	5'	350	4"	40
1200-3	1200	1240	4	3	500	4"	250
1200-4	1200	1240	4	4	500	4"	250
1200-5	1200	1240	5	5'	500	4"	250
1600-3	1600	1620	6	3	400	4"	350
1600-4	1600	1620	6	4	400	4"	350
1600-5	1600	1736	7	5'	500	4"	350
2000-4	2000	2310	6	4	750	4"	400
2500-4	2500	2695	7	4	750	5"	600
3000-4	3000	3080	8	4	750	5"	600
4000-4	4000	4235	11	4	750	5"	750

NOTES:
#1 PARALLEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250.122.
GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS
* 200% NEUTRAL, DERATED TO 80% BASED ON NEC 310.15.B(3)(C)
** COPPER CONDUCTOR (XHHW)
PROVIDE COMPACT STRANDED ALUMINUM ASSOCIATION 8000 SERIES ALLOY CONDUCTORS.
PROVIDE TERMINATION FOR ALUMINUM ALLOY CONDUCTORS OF HYDRAULIC COMPRESSION TYPE ONLY, LISTED UNDER UL 486-B, MARKED "AL/CU" FOR 75 DEGREE RATED CIRCUITS.
PROVIDE ALL ELECTRICAL EQUIPMENT WITH PROPER SIZING TO ACCOMMODATE ALUMINUM CONDUCTORS. COORDINATE WITH EQUIPMENT SUPPLIER.

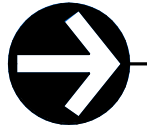
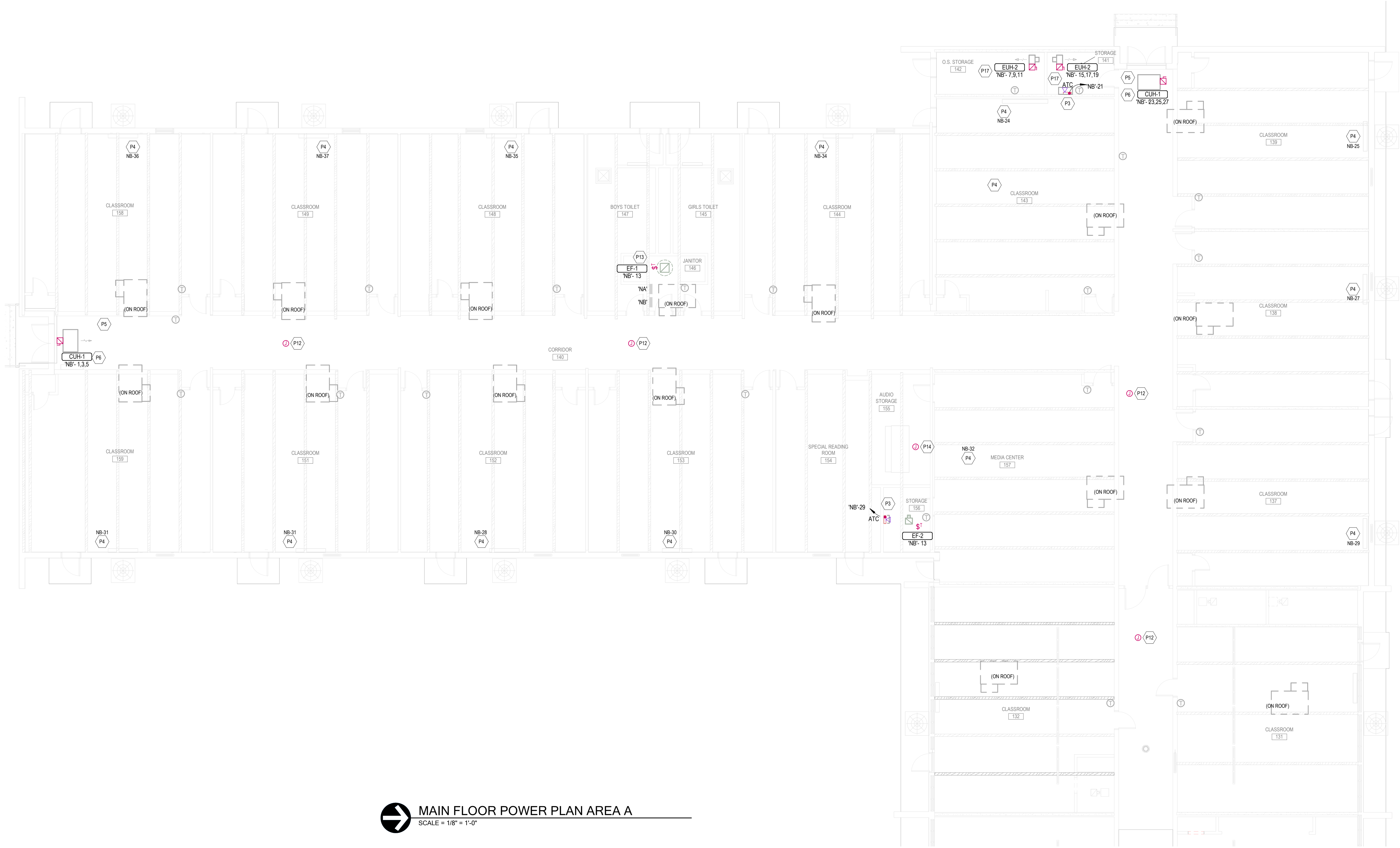
COPPER CONDUCTOR & CONDUIT SCHEDULE							
TYPE	MAX. O.C. PROT.	COND. AMPS	SETS	CONDUCTOR QUAN.	CONDUIT SIZE	CONDUIT SIZE	EQ. GND. COND. (CU)
30-2	30	30	1	2	10	3/4"	10
30-3	30	30	1	3	10	3/4"	10
30-4	30	30	1	4	10	3/4"	10
40-2	40	40	1	2	8	1"	10
40-3	40	40	1	3	8	1"	10
40-4	40	40	1	4	8	1"	10
60-2	60	55	1	2	6	1"	8
60-3	60	55	1	3	6	1"	8
60-4	60	55	1	4	6	1"	8
70-2	70	70	1	2	4	1"	8
70-3	70	70	1	3	4	1-1/4"	8
70-4	70	70	1	4	4	1-1/4"	8
90-2	90	85	1	2	3	1-1/4"	8
90-3	90	85	1	3	3	1-1/4"	8
90-4	90	85	1	4	3	1-1/2"	8
100-3	100	95	1	3	2	1-1/2"	6
100-4	100	95	1	4	2	1-1/2"	6





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1/15/2026 10:28:38 AM 1/8" = 1'-0"



MAIN FLOOR POWER PLAN AREA A
SCALE = 1/8" = 1'-0"

- POWER GENERAL SHEET NOTES**

 - COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL, PADDING AND CABINETRY DRAWINGS.
 - ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
 - ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIO/VISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELEDATA SPEC. AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
 - PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
 - ALL RECEPTACLES LOCATED THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 408.12.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
 - FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - PROVIDE 120V CIRCUIT FROM NEAREST PROVIDED CIRCUIT FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.
 - CONTRACTOR TO COORDINATE ALL LOCATIONS OF FIRE/SMOKE AND SMOKE DAMPERS WITH MECHANICAL CONTRACTOR. CONTRACTOR TO PROVIDE POWER MONITOR MODULES, AND RELAYS AS REQUIRED FOR A COMPLETE SYSTEM.
 - DIVISION 26 IS RESPONSIBLE TO PROVIDE CONDUIT AND ROUGH-IN FOR ALL THERMOSTAT CONTROLS LOCATED WITHIN WALLS. COORDINATE WITH THE CONTROLS CONTRACTOR AND VERIFY EXACT LOCATION OF ALL THERMOSTATS.
- KEYNOTES**

P3 PROVIDE (1) CAT6 DROP TO NEAREST DATA ROOM/RACK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ROUTING AND DATA ROOM/RACK LOCATION.

P4 EXISTING UNIT VENTILATOR AND EVAPORATIVE UNITS TO BE ABANDONED. DIV. 26 TO DISCONNECT EXISTING UNIT. DIV. 26 TO REMOVE CONDUCTORS BACK TO SOURCE AND RELABEL BREAKER AS SPARE. CIRCUIT NUMBER BASED ON EXISTING DRAWINGS AND TO BE FIELD VERIFIED.

P5 DIV. 26 TO DISCONNECT EXISTING UNIT HEATER. REMOVE CONDUCTORS COMPLETELY BACK TO SOURCE AND RELABEL AS SPARE.

P6 CIRCUIT NUMBER SHOWN FOR REFERENCE ONLY. UTILIZE CIRCUIT BREAKERS FREED DURING DEMOLITION/DISCONNECTING OF EXISTING UNIT VENTILATORS, UNIT HEATERS, AND EVAPORATIVE COOLERS. PROVIDE NEW 30A 3P BREAKER WITHIN PANELBOARD.

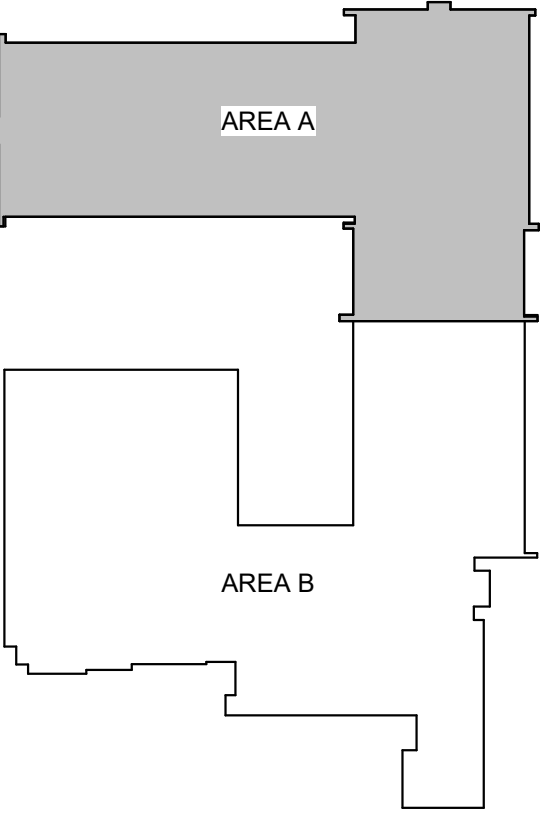
P12 EXISTING RELIEF FAN TO BE DEMOLISHED. DIV. 26 SHALL DISCONNECT AND REMOVE CONDUCTORS BACK TO SOURCE. RELABEL BREAKER AS SPARE.

P13 NEW EXHAUST FAN TO REPLACE EXISTING. PROVIDE NEW CIRCUIT AS INDICATED. DISCONNECT EXISTING UNIT AND REMOVE EXISTING CONDUCTORS BACK TO SOURCE.

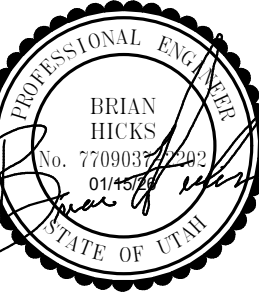
P14 EXISTING FAN COIL TO BE ABANDONED. DIV. 26 SHALL DISCONNECT AND REMOVE CONDUCTORS BACK TO SOURCE. RELABEL BREAKER AS SPARE.

P17 CIRCUIT NUMBER SHOWN FOR REFERENCE ONLY. UTILIZE CIRCUIT BREAKERS FREED DURING DEMOLITION/DISCONNECTING OF EXISTING UNIT VENTILATORS, UNIT HEATERS, AND EVAPORATIVE COOLERS. PROVIDE NEW 20A 3P BREAKER WITHIN PANELBOARD.

KEYPLAN



170 NORTH MAIN STREET
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REVISIONS:

PROJECT TITLE
EMERY SCHOOL DISTRICT
HUNTINGTON ELEMENTARY SCHOOL
MECHANICAL UPGRADE
HUNTINGTON, UT 84528

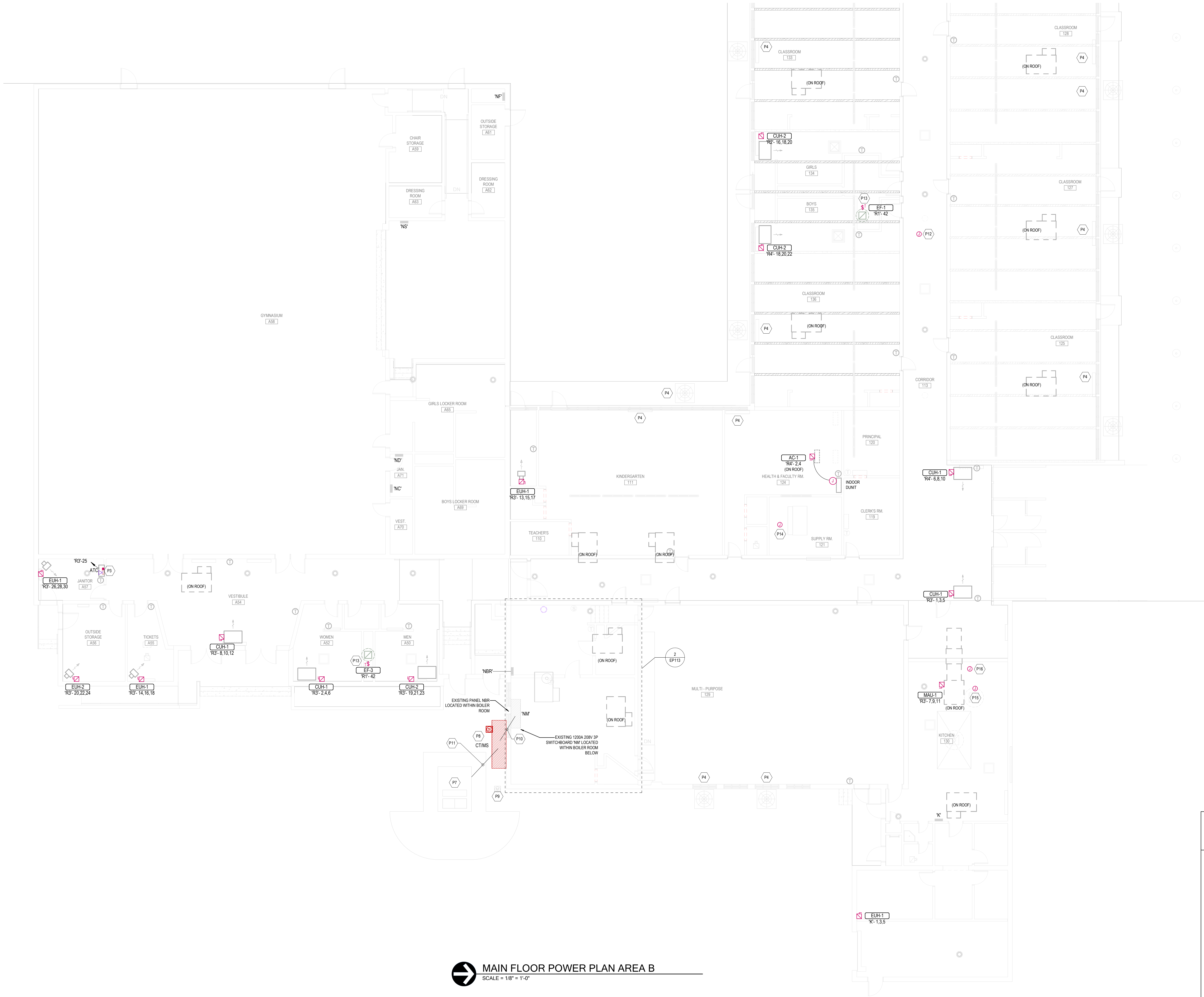
PROJECT TITLE
EMERY SCHOOL DISTRICT
HUNTINGTON ELEMENTARY SCHOOL
MECHANICAL UPGRADE
HUNTINGTON, UT 84528

DRAWN BY: MK
CHECKED BY: ES
DATE: JAN. 2026
PROJECT #: 176525

EP112

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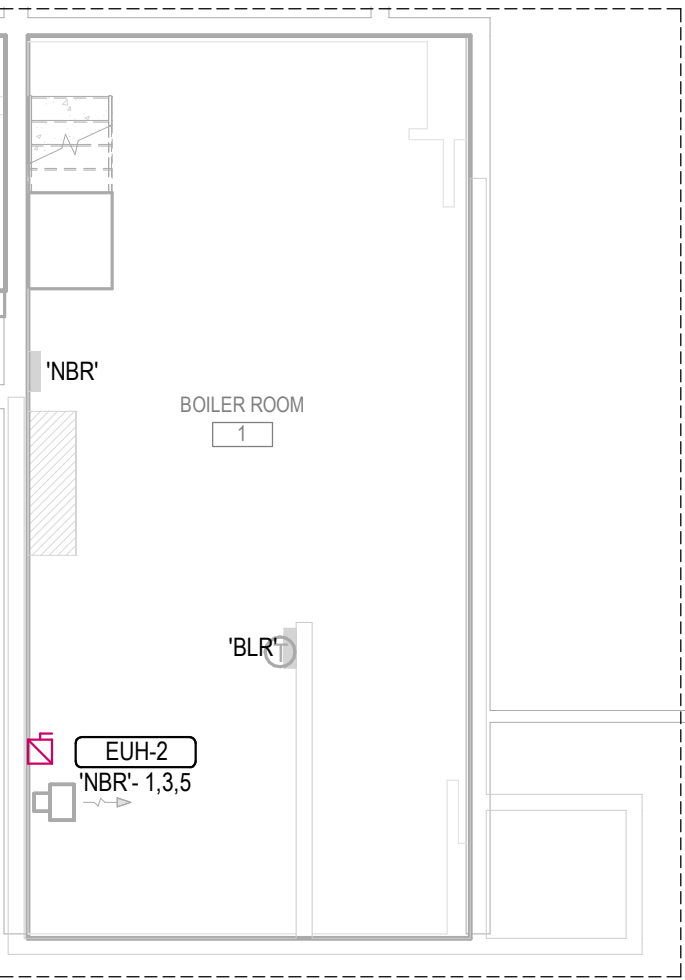
1/10/2026 10:28:31 AM
1/8" = 1'-0"



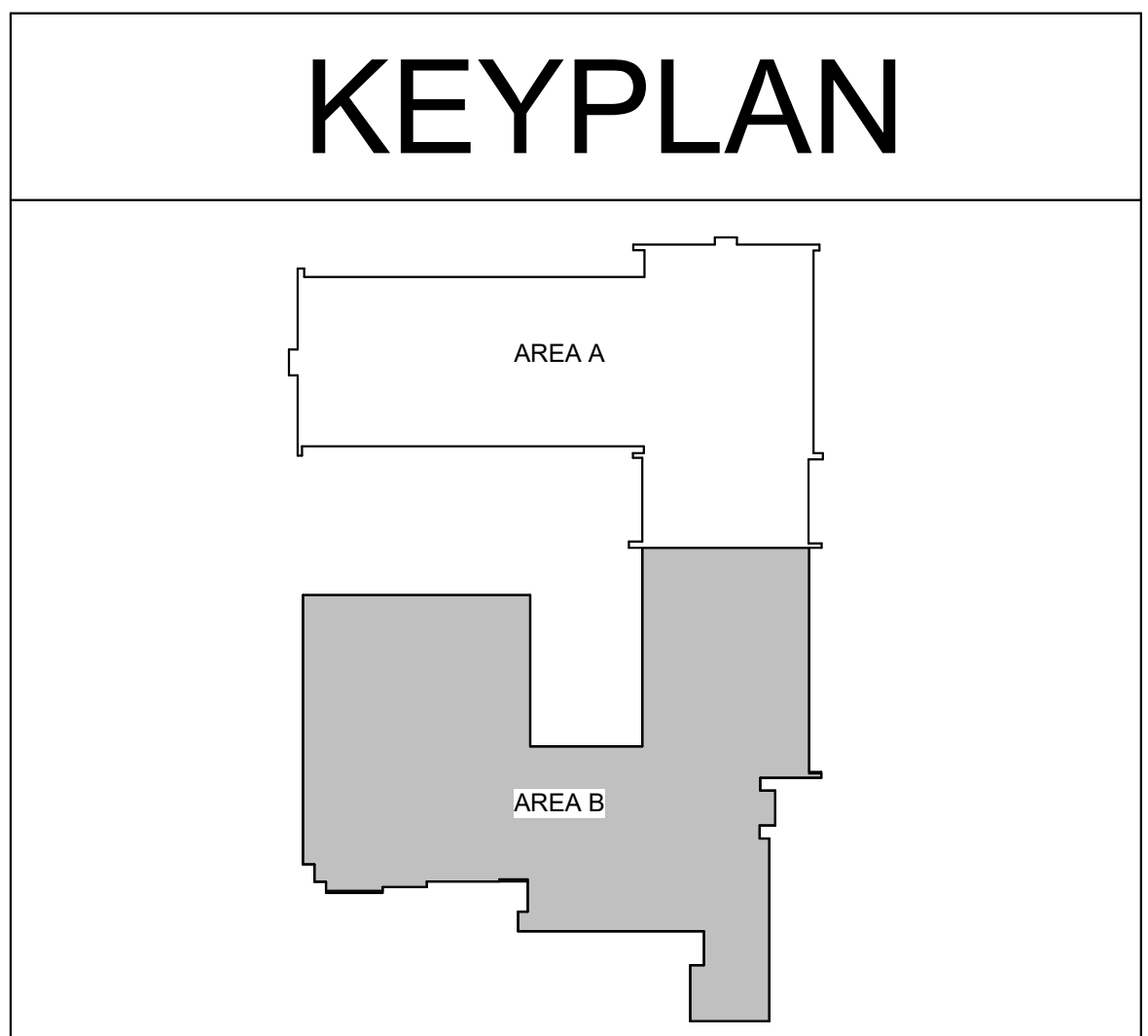
 MAIN FLOOR POWER PLAN AREA B
SCALE = 1/8" = 1'-0"

- POWER GENERAL SHEET NOTES**
- COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SAFETY WALL PADDING AND CABINETRY DRAWINGS.
 - ALL THE LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
 - ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELEDATA SPEC. AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
 - PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT PER THE NEC REQUIREMENTS. DEVICES SHALL BE READILY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE PER NEC, WHETHER SHOWN OR NOT.
 - ALL RECEPTACLES LOCATED THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 408.12.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
 - FOR VAV POWER, PROVIDE A DEDICATED 120V/20A CIRCUIT FROM A PANEL LOCATED IN THE ELECTRICAL ROOM OF THE ASSOCIATED QUADRANT. COORDINATE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 - PROVIDE 120V CIRCUIT FROM NEAREST PROVIDED CIRCUIT FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.
 - CONTRACTOR TO COORDINATE ALL LOCATIONS OF FIRE/SMOKE AND SMOKE DAMPERS WITH MECHANICAL CONTRACTOR, CONTRACTOR TO PROVIDE POWER MONITOR MODULES, AND RELAYS AS REQUIRED FOR A COMPLETE SYSTEM.
 - DIVISION 26 IS RESPONSIBLE TO PROVIDE CONDUIT AND ROUGH-IN FOR ALL THERMOSTAT CONTROLS LOCATED WITHIN WALLS. COORDINATE WITH THE CONTROLS CONTRACTOR AND VERIFY EXACT LOCATION OF ALL THERMOSTATS.

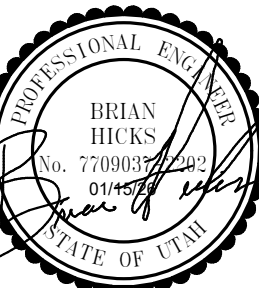
- KEYNOTES**
- PROVIDE (1) CAT6 DROP TO NEAREST DATA ROOM/RACK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ROUTING AND DATA ROOM/RACK LOCATION.
 - EXISTING UNIT VENTILATOR AND EVAPORATIVE UNITS TO BE ABANDONED. DIV. 26 TO DISCONNECT EXISTING UNIT. DIV. 26 TO REMOVE CONDUCTORS BACK TO SOURCE AND RELABEL BREAKER AS SPARE. CIRCUIT NUMBER BASED ON EXISTING DRAWINGS AND TO BE FIELD VERIFIED.
 - APPROXIMATE LOCATION OF EXISTING RMP TRANSFORMER, TO BE REPLACED.
 - LOCATE NEW CTMS WITH RMP METER. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. CTMS TO BE LOCATED AS SUCH AS TO INTERCEPT EXISTING FEEDER TO EXISTING MAIN SWITCH BOARDING "NMAK". COORDINATE PHASING CLOSELY WITH RMOCK MOUNTY POWER TO ENSURE ALL WORK THAT CAN BE COMPLETED PRIOR TO THE NECESSARY POWER OUTAGE FOR INSTALLING THE NEW CTMS IS COMPLETED TO MINIMIZE BUILDING POWER OUTAGE TIMEFRAME. PROVIDE MINIMUM FOUR WEEKS NOTICE OF POWER OUTAGE.
 - EXISTING METER TO BE TEMPORARILY MAINTAINED WHILE EXISTING CHIMNEY IS DEMOLISHED. PROVIDE ADDITIONAL SUPPORTS/BRACING AS NECESSARY TO ALLOW METER TO OPERATE FREESTANDING TEMPORARILY UNTIL METER CAN BE REMOVED AFTER NEW CTMS IS INSTALLED. PROTECT EXISTING METER AND EXISTING TRANSFORMERS DURING DEMOLITION.
 - CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING CONDUIT PATH BETWEEN EXISTING TRANSFORMER AND EXISTING MAIN "NMAK". INTERCEPT CONDUIT AND FEEDERS AND REWORK TO NEW "NCTHSEK".
 - CONTRACTOR TO PROVIDE NEW CONDUIT BETWEEN NEW CTMS AND RMP TRANSFORMER. REFER TO RMP FOR ADDITIONAL REQUIREMENTS. ALL CUTTING, EXCAVATING, TRENCHING, CONDUIT, AND BACKFILL BY DIV. 26. SECONDARY CONDUCTORS BY RMP.
 - EXISTING RELIEF FAN TO BE DEMOLISHED. DIV. 26 SHALL DISCONNECT AND REMOVE CONDUCTORS BACK TO SOURCE. RELABEL BREAKER AS SPARE.
 - NEW EXHAUST FAN TO REPLACE EXISTING. PROVIDE NEW CIRCUIT AS INDICATED. DISCONNECT EXISTING UNIT AND REMOVE EXISTING CONDUCTORS BACK TO SOURCE.
 - EXISTING FAN COIL TO BE ABANDONED. DIV. 26 SHALL DISCONNECT AND REMOVE CONDUCTORS BACK TO SOURCE. RELABEL BREAKER AS SPARE.
 - EXISTING EVAP UNIT TO BE DEMOLISHED. DIV. 26 TO DISCONNECT AND REMOVE CONDUCTORS COMPLETELY BACK TO SOURCE. RELABEL BREAKER AS SPARE.
 - INTERLOCK EXISTING EXHAUST FAN WITH NEW MAU.



2 BASEMENT POWER MECH PLAN
1/8" = 1'-0"



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MECHANICAL UPGRADE
HUNTINGTON, UT 84528

PROJECT TITLE
190 E 100 N
DRAWN BY: MK
CHECKED BY: ES
DATE: JAN. 2026
PROJECT #: 176525

EP113



REVISIONS:

SCHOOL
HUNTINGTON, UT 84528

EMERY SCHOOL DISTRICT
ON ELEMENTARY
MECHANICAL UPGRADE

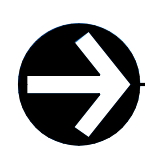
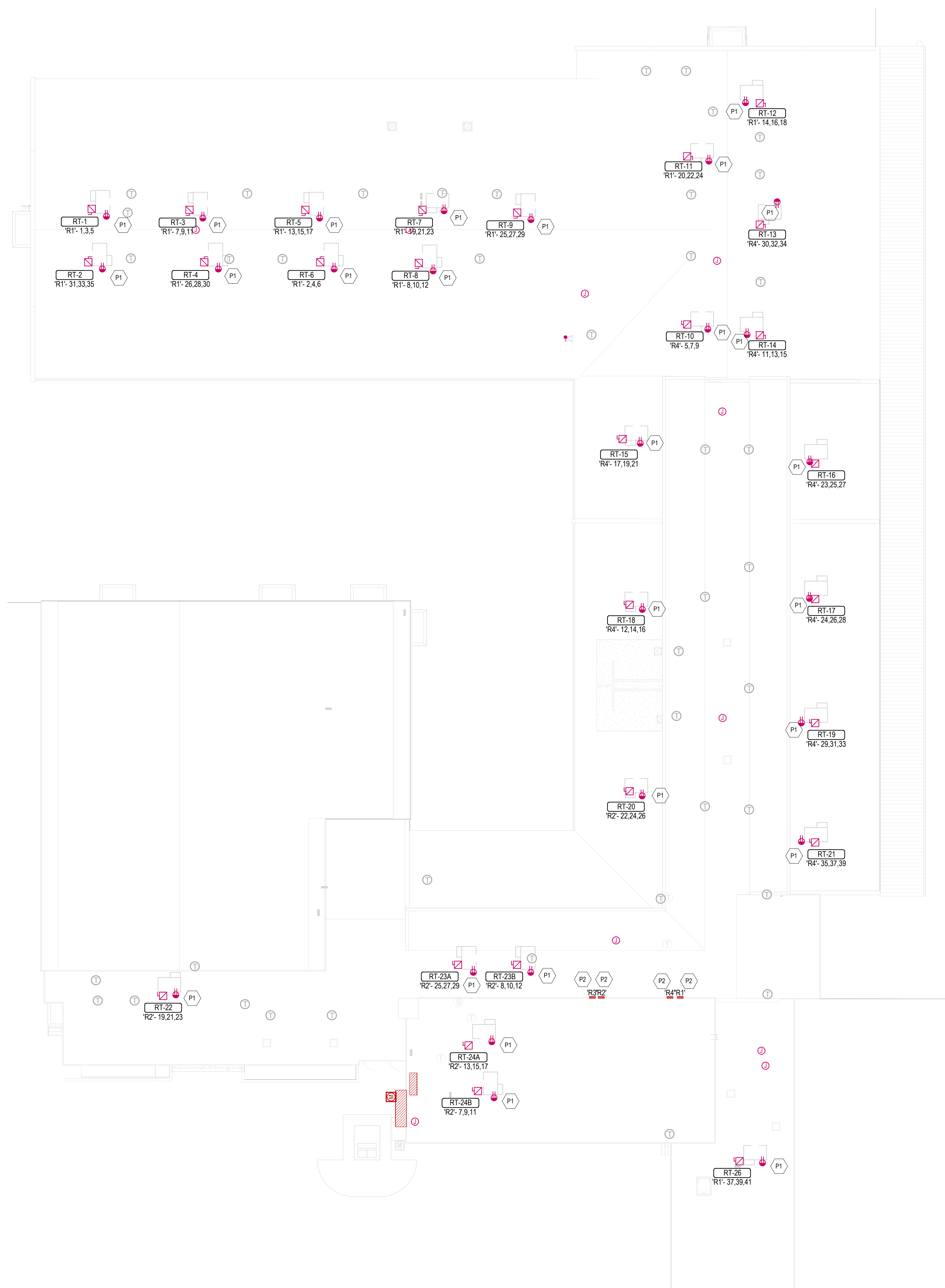
PROJECT TITLE: HUI
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 DRAWN BY: MK
 CHECKED BY: ES
 DATE: JAN. 2026
 PROJECT #: 176525

EP114

P1 FACTORY PROVIDED OUTLET. CONTRACTOR TO EXTEND 120V POWER FROM NEAREST AVAILABLE CIRCUIT.

P2 SURFACE MOUNT PANELBOARD TO WALL SPACE. PROVIDE ADDITIONAL UNISTRUT BACKING FOR PORTION OF PANELBOARD NOT ABLE TO MOUNT TO LOW ADJACENT WALL. EQUIPMENT IS EXPOSED TO HIGH WINDS. ENSURE ALL ELECTRICAL EQUIPMENT ON THE ROOF IS WELL SECURED AND SUPPORTED. SURFACE MOUNT CONDUITS TO EQUIPMENT ALONG THE ROOF. PROVIDE MINIMUM 6" TALL ROOF STANDOFFS/CONDUIT SUPPORTS EVERY 6" MIN. ALL ROOF MOUNTED CONDUCTORS MUST BE XHHW.

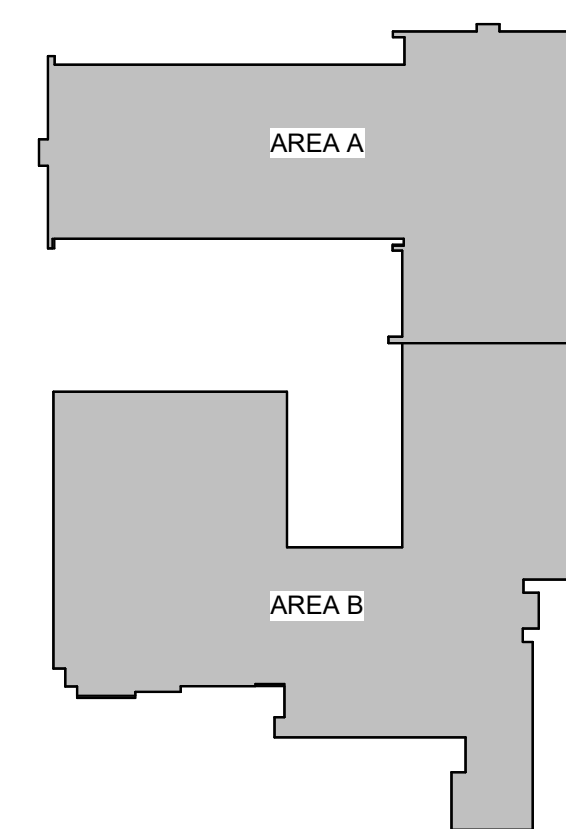
3. COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALSO VERTICALLY AND HORIZONTALLY COORDINATE WITH ARCHITECTURAL DRAWINGS, ATHLETIC SCALE WALL PADDING AND ARCHITECTURAL FINISHES.
4. ALL THE LOW VOLTAGE WIREABLE FOR LIGHTING SERVICES, AUDIOVISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUSED CONDITIONS.
5. ALL LOW VOLTAGE WIREABLE FOR LIGHTING SERVICES, AUDIOVISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED BY THE TELECAST SPEC. AIDA 4-7-5 "INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE THROUGH WALLS, CEILING, FLOORS, OR THROUGH ANY SYSTEM OR OTHER FIXTURE, SUPERSEDES THESE WIRES FOR SUPPORT IS NOT ALLOWED.
6. PROVIDE GFCI PROTECTION ON ALL DEVICES AND EQUIPMENT. PER THE NEC REQUIREMENTS DEVICES SHALL BE READY ACCESSIBLE. IF ANY OUTLET IS INSTALLED WITH FEET OF CONDUIT, PROVIDE A GFCI PROTECTABLE SHALL PROVIDE GFCI PROTECTABLE PER NEC, WHETHER SHOWN OR NOT.
7. ALL RECEPTACLES LOCATED OUTSIDE THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 68.2.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE EXISTING AND ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
9. FOR VAV POWER, PROVIDE A DEDICATED 120V/240 CIRCUIT FROM A PANEL, LOCATED IN THE EQUIPMENT ROOM. THE CONTRACTOR SHALL PROVIDE THE EXACT LOCATION OF ALL VAV BOXES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
10. PROVIDE 120V CIRCUIT FROM NEAREST PROVIDED CIRCUIT FOR FIRE SMOKE DETECTOR. RELAYS PROVIDE FIRE ALARM MODULES AND RELAYS ARE NECESSARY FOR EACH FIRE SMOKE DETECTOR. PROVIDE DIVISION 26 DETECTOR WITH 1/2" NPT CONNECTION. PROVIDE A MANUAL OVERRIDE SWITCH. PROVIDE DETECT WITH DETECTOR WITH 1/2" NPT CONNECTION. PROVIDE DETECTOR WITH 1/2" NPT CONNECTION. PROVIDE DETECTOR WITH 1/2" NPT CONNECTION.
11. CONTRACTOR TO COORDINATE ALL LOCATIONS OF FIRE SMOKE AND SMOKE DAMPERS WITH MECHANICAL CONTRACTOR TO PROVIDE POWER, MONITOR MODULES, AND RELAYS AS REQUIRED FOR A COMPLETE SYSTEM.
12. DIVISION 26 IS RESPONSIBLE TO PROVIDE CONDUIT AND ROUGH-IN FOR ALL THERMOSTAT CONTROLS LOCATED WITH WALLS. COORDINATE WITH THE CONTROLS CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.



OVERALL ROOF POWER PLAN

SCALE = 1/16" = 1'-0"

KEYPLAN



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1/15/2026 10:28:35 AM

PANELBOARD SCHEDULE																
PANEL: 'NB'		TYPE: Do Not Use, Use _____				VOLTS: 208Y/120, 3Ø, 4W				PHASE: 3		WIRES: 4				
LOCATION: _____		MAINS/BUS AMPS: 400				MAIN DISC. TYPE: MLO				LUGS: Standard						
FED FROM: 'NM'		MAIN DISC. TRIP: MLO				DOOR-IN-DOOR				200% NEUTRAL						
MOUNTING: _____		ISO GROUND				SPD										
BUSSING: Do Not Use, Use Current Rating _____																
BRANCH BREAKERS																
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM	
CUH-1	30 A	3	#8	1	2,162 VA			0 VA			2	--	1	20 A	EXISTING	
				3		2,162 VA			0 VA	4	--	1	20 A	EXISTING		
				5			2,162 VA			0 VA	6	--	1	20 A	EXISTING	
AREA A ELECTRIC UNIT HEATER EUH-2	25 A	3	#8	7	1,945 VA			0 VA			8	--	1	20 A	EXISTING	
				9		1,945 VA			0 VA	10	--	1	20 A	EXISTING		
				11			1,945 VA			0 VA	12	--	1	20 A	EXISTING	
EF-1	20 A	1	#12	13	1,872 VA			0 VA			14	--	1	20 A	EXISTING	
AREA A ELECTRIC UNIT HEATER EUH-2	25 A	3	#8	15		1,945 VA			0 VA		16	--	1	20 A	EXISTING	
				17			1,945 VA			0 VA	18	--	1	20 A	EXISTING	
				19			1,945 VA			0 VA	20	--	1	20 A	EXISTING	
ATC PANEL	20 A	1	#12	21			500 VA			0 VA	22	--	1	20 A	EXISTING	
CUH-1	30 A	3	#8	23			2,162 VA			0 VA	24	--	1	20 A	EXISTING	
				25		2,162 VA			0 VA	26	--	1	20 A	EXISTING		
				27			2,162 VA			0 VA	28	--	1	20 A	EXISTING	
ATC PANEL	20 A	1	#12	29				500 VA			0 VA	30	--	1	20 A	EXISTING
EXISTING	20 A	1	--	31	0 VA				0 VA		32	--	1	20 A	EXISTING	
EXISTING	20 A	1	--	33			0 VA			0 VA	34	--	1	20 A	EXISTING	
EXISTING	20 A	1	--	35				0 VA		0 VA	36	--	1	20 A	EXISTING	
EXISTING	20 A	1	--	37	0 VA				0 VA		38	--	1	20 A	EXISTING	
EXISTING	20 A	1	--	39			0 VA			0 VA	40	--	1	20 A	EXISTING	
EXISTING	20 A	1	--	41				0 VA			0 VA	42	--	1	20 A	EXISTING
				10066	8714	8714	TOTAL (VA)						CONNECTED LOAD TOTAL			
				94.1 A	72.6 A	72.6 A	AMPS/PHASE						27.514 VA			
AIC RATING: 10.514 AMPS RMS SYSM.																
NOTES:																

PANELBOARD SCHEDULE																
PANEL: 'R3'				TYPE: Do Not Use, Use...		VOLTS: 208Y/120, 3Ø, 4W		PHASE: 3				WIRES: 4				
LOCATION:						MAINS/BUS AMPS: 400						LUGS: Standard				
FED FROM: CTMS						MAIN DISC. TYPE: MLO						DOOR-IN-DOOR				
MOUNTING:						MAIN DISC. TRIP: MLO						200% NEUTRAL				
BUSSING: Do Not Use, Use Current Rating												ISO GROUND				
												SPD				
BRANCH BREAKERS																
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM	
AREA B CABINET UNIT HEATER CUH-1	30 A	3	#6	1	2,162 VA			2,162 VA			2		#6	3	30 A	AREA B CABINET UNIT HEATER CUH-1
				3		2,162 VA			2,162 VA	4						
				5			2,162 VA			2,162 VA	6					
AREA B MAKE-UP AIR UNIT MAU-1	40 A	3	#6	7	2,906 VA			2,162 VA			8		#6	3	30 A	AREA B CABINET UNIT HEATER CUH-1
				9		2,906 VA			2,162 VA	10						
				11			2,906 VA			2,162 VA	12					
AREA B ELECTRIC UNIT HEATER EUH-1	30 A	3	#6	13	1,909 VA			1,909 VA			14		#6	3	25 A	AREA B ELECTRIC UNIT HEATER EUH-1
				15		1,909 VA			1,909 VA	16						
				17			1,909 VA			1,909 VA	18					
AREA B CABINET UNIT HEATER CUH-2	30 A	3	#6	19	2,162 VA			1,945 VA			20		#6	3	30 A	AREA B CABINET UNIT HEATER CUH-2
				21		2,162 VA			1,945 VA	22						
				23			2,162 VA			1,945 VA	24					
Other JANITOR AS7	20 A	1	#12	25	500 VA			1,909 VA			26		#6	3	25 A	AREA B ELECTRIC UNIT HEATER EUH-1
				27				1,909 VA	28							
				29					1,909 VA	30						
				31							32					
				33							34					
				35							36					
				37							38					
				39							40					
				41							42					
					1926	1926	1926	TOTAL (VA)		CONNECTED LOAD TOTAL						
					164.4 A	160.2 A	160.2 A	AMPS/PHASE		55.179 VA						
AIC RATING: 22,673																
AMPS RMS SYSM.																
NOTES:																

PANELBOARD SCHEDULE																			
PANEL: 'R4'		TYPE: Do Not Use, Use...		VOLTS: 208Y/120, 3Ø, 4W						PHASE: 3		WIRES: 4							
LOCATION:		MAINSBUS AMPS: 400														LUGS: Standard			
FED FROM: CTMS		MAIN DISC. TYPE: MLO														DOOR-IN-DOOR			
MOUNTING:		MAIN DISC. TRIP: MLO														200% NEUTRAL			
BUSSING: Do Not Use, Use Current Rating																ISO GROUND			
																SPD			
BRANCH BREAKERS																			
ITEM	AMPS	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	AMPS	ITEM				
ROOF TOP UNIT RT-10	30 A	3	#4	1				1,248 VA			2		#10	2	20 A	AREA B AC-1			
				3						1,248 VA	4								
				5			2,114 VA			2,162 VA	6								
				7	2,114 VA			2,162 VA			8								
				9		2,114 VA			2,162 VA	10									
ROOF TOP UNIT RT-14	30 A	3	#4	11			2,114 VA			2,978 VA	12		#4	3	40 A	ROOF TOP UNIT RT-18			
				13	2,114 VA			2,978 VA			14								
				15		2,114 VA		2,978 VA			16								
				17			2,498 VA			2,162 VA	18								
				19	2,498 VA			2,162 VA	20										
ROOF TOP UNIT RT-15	35 A	3	#4	21		2,498 VA			2,162 VA	22		#6	3	30 A	AREA B CABINET UNIT HEATER CUH-2				
				23			2,498 VA			2,498 VA	24								
				25	2,498 VA			2,498 VA			26								
				27		2,498 VA			2,498 VA	28									
				29			2,498 VA			2,114 VA	30								
ROOF TOP UNIT RT-16	35 A	3	#4	31		2,498 VA			2,114 VA	32		#2	3	30 A	ROOF TOP UNIT RT-13				
				33			2,498 VA			2,114 VA	34								
				35			2,498 VA				36								
				37	2,498 VA					38									
				39		2,498 VA				40									
ROOF TOP UNIT RT-21	35 A	3	#6	41						42									
					275/9	275/9	261/3	TOTAL (VA)		CONNECTED LOAD TOTAL									
					229.8 A	229.8 A	217.8 A	AMPS/PHASE		60,890 VA									
																A/C RATING: 19,212		AMPS RMS SYS.	
NOTES:																			

Y1 PROVIDE CONTROL MODULE WITH FAN SHUT DOWN RELAY FOR LOCAL CARBON MONOXIDE DETECTOR ACTIVATION. TIE TO LOCAL INITIATION LOOP. LOCATE CARBON MONOXIDE DETECTOR WITHIN THE FIRST ROOM SERVED BY THE DUCT

- CONNECT ELEVATOR LOBBY SMOKE DETECTOR TO ELEVATOR CONTROLLER FOR ELEVATOR RELEASE. PROVIDE SHUNT TRIP SERVICE AT DISCONNECT FOR ALL ELEVATOR CONTROLLERS. PROTECT HEAT DETECTOR FROM ELEVATOR SHUNT AND ADJACENT TO EACH SPRINKLER IN ALL ELEVATOR MACHINE ROOMS. ACTIVATION OF HEAT DETECTOR TO INITIATE SHUT-Trip.
- PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
- ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH OWNER'S REP PRIOR TO INSTALLATION. NO ADDITIONAL CHARGES WILL BE ALLOWED FOR FOLLOWING REQUIRED CONDUIT USE TO LOCK COORDINATION WITH THE OWNERS REP.
- ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. PROVIDE PRECAST CONCRETE, BRICK OR BLOCK CONDUIT AND BACK BOXES IN POURED CONCRETE, PRE-CAST CONCRETE, MASONRY AND GYP WALLS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT QUANTITY AND LOCATIONS OF ALL FIRE SPRINKLER SYSTEM TAMPERS AND FLOW SWITCHES WITH FIRE SPRINKLER DRAWINGS. CONTACT ALL FIRERS WITH REQUIREMENTS FOR THEIR REVIEW AND REPLY STRATEGY.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION AND QUANTITY OF ALL DUCT TYPE SMOKE DETECTORS WITH ARCHITECTURAL DRAWINGS AND ADVISE OWNER OF REPLY STRATEGY.
- PROVIDE SMOKE AND HEAT DETECTORS WITH ELEVATOR MACHINE ROOMS AND ELEVATOR HOSTS.
- PROVIDE CONNECTION OF FA SYSTEMS TO ALL MAGNETIC DUCT HOLD-OFF DEVICES TO AUTOMATICALLY CLOSE DOORS DURING ALARM CONDITIONS.

FIRE ALARM EQUIPMENT SPECIFICATIONS

DEVICES INDICATED BY FIRE ALARM ONE LINE ARE FOR REFERENCE ONLY. REFER TO PROJECT MANUAL FOR SPECIFICATIONS. PROVIDE EQUIPMENT QUANTITIES QUANTIFIABLE FROM SCHEDULE FOR MAGNETIC DUCT HOLDER AND BLOW OPEN DUCTOR REQUIREMENTS.

ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITH THE BUILDING REGARDLESS OF PROJECT SCOPE BOUNDARIES.

PROVIDE FIRE ALARM RELAY MODULES FOR ALL FAS DOCS WITH ACCESS CONTROL DEVICES.

PROVIDE (2) DUCT TYPE SMOKE DETECTOR FOR EACH FAN VUL. UL95A SUPPLY FAN AND HEAT PUMP OF 2000 CFM OR GREATER.

FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE PURPOSE ONLY AND BASED UPON A DESIGN ASSUMPTION OF SPECIFIC RISK. PROVIDE EQUIPMENT QUANTITIES QUANTIFIABLE FROM ALL NATIONAL & LOCAL CODE COMPLIANCE TO BE PROVIDED AND STRATIFIED BY A LICENSED FIRE ALARM ENGINEER AND INCLUDED IN THE FIRE ALARM CONTROLS BID. IN NO WAY ARE THESE SHOWN ON THESE DRAWINGS TO BE IMPLEMENTED AS FINAL DESIGN DOCUMENTS.

PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR EACH DUCT TYPE SMOKE DETECTOR. PROVIDE 120V CIRCUIT THROUGH THE MAIN ELECTRICAL PANEL FOR ALL FIRE-SMOKES DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE-SMOKES DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH TO PROVIDE DETECTOR WITH 5/8" DIAMETER AIR DAMPER.

REFER TO ROOF ELECTRICAL SHEET AND MECHANICAL SHEETS FOR RUFOOTMECHANICAL EQUIPMENT DETECTOR LOCATIONS.

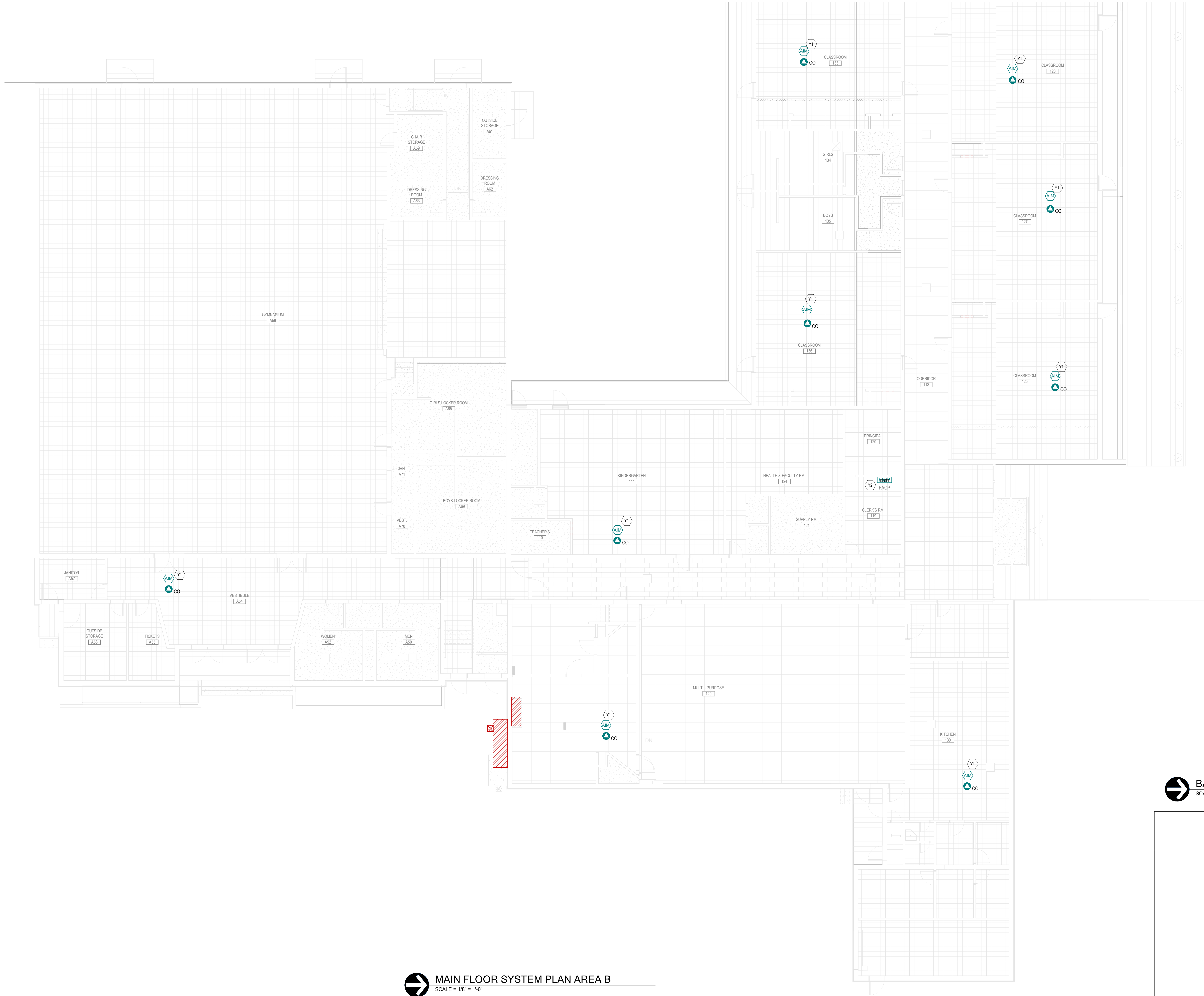
PROVIDE FIRE ALARM SYSTEM DUCT DETECTOR(S) AS REQUIRED. COORDINATE WITH DIVISION 23 CONTRACTOR FOR THE QUANTITY AND FOR MOUNTING IN MECHANICAL DUCT.

 MAIN FLOOR SYSTEM PLAN AREA A
SCALE = 1/8" = 1'-0"

The diagram shows a building layout with two distinct areas. AREA A is a large, irregularly shaped room at the top, shaded in light gray. AREA B is a smaller, more rectangular room located below AREA A, also shaded in light gray. The rooms are separated by a hallway or common area. The entire layout is enclosed within a black border.

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1/8" = 1'-0"

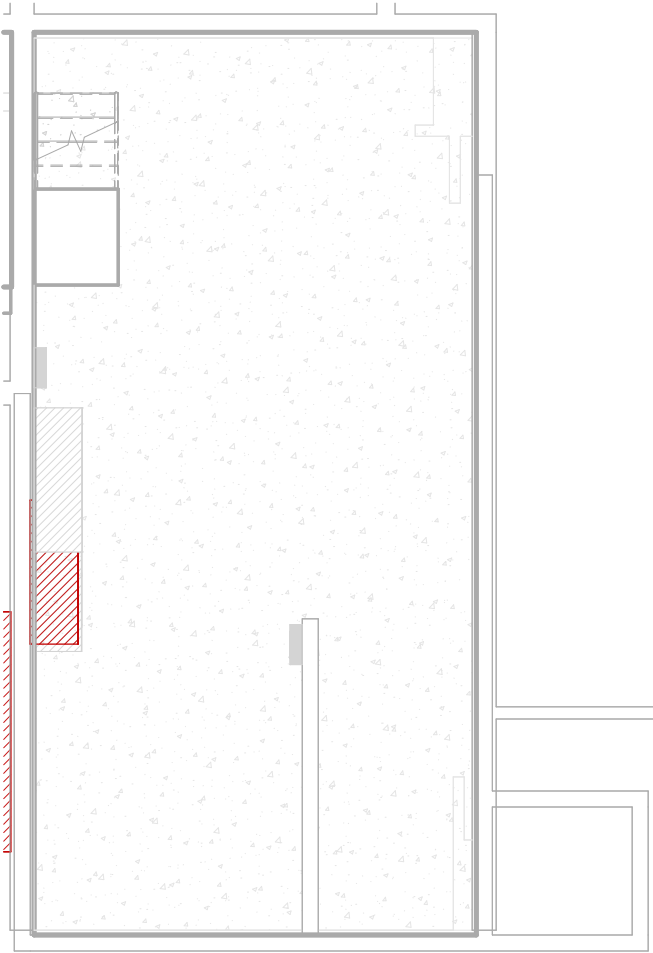


MAIN FLOOR SYSTEM PLAN AREA B
SCALE = 1/8" = 1'-0"

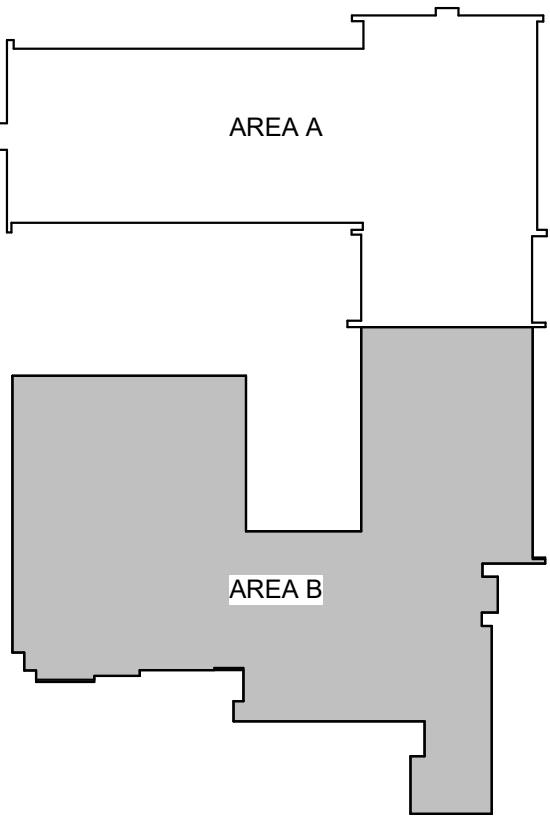
- KEYNOTES**
- Y1 PROVIDE CONTROL MODULE WITH FAN SHUT DOWN RELAY FOR LOCAL CARBON MONOXIDE DETECTOR ACTIVATION. TIE TO LOCAL INITIATION LOOP. LOCATE CARBON MONOXIDE DETECTOR WITHIN THE FIRST ROOM SERVED BY THE DUCT.
 - Y2 EXISTING SILENT KNIGHT 6850 FACP. DISCARD EXISTING CO DETECTION/INITIATION LOOPS TO INCLUDE NEW CO DETECTORS WITH MONITOR MODULES WITH FAN SHUT DOWN AS REQUIRED.

- SYSTEMS SHEET NOTES**
- CONNECT ELEVATOR LOBBY SMOKE DETECTORS TO ELEVATOR CONTROLLER FOR ELEVATOR RECALL. PROVIDE SHUNT TRIP DEVICE AT DISCONNECT FOR ALL ELEVATOR CONTROLLERS. PROVIDE A HEAT DETECTOR AT THE TOP OF ELEVATOR SHAFT AND ADJACENT TO EACH SPRINKLER HEAD IN ALL ELEVATOR MACHINE ROOMS. ACTIVATION OF HEAT DETECTOR TO INITIATE SHUNT TRIP.
 - PROVIDE #14 AWG MINIMUM WIRING FOR ALL SIGNAL AND INITIATION DEVICES.
 - ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES. ALL EXPOSED CONDUIT ROUTING SHALL BE COORDINATED WITH OWNERS REP PRIOR TO INSTALLATION. NO ADDITIONAL COST TO THE OWNER WILL BE ALLOWED FOR RELOCATING CONDUIT DUE TO LACK OF COORDINATION WITH THE OWNERS REP.
 - ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, PRE-CAST CONCRETE, MASONRY AND GYP WALLS.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT QUANTITY AND LOCATIONS OF ALL FIRE SPRINKLER SYSTEM TAMPERS AND FLOW SWITCHES WITH FIRE SPRINKLER DRAWINGS. CONNECT ALL TAMPERS AND FLOW SWITCHES TO FIRE ALARM SYSTEM.
 - CONTRACTOR SHALL COORDINATE EXACT LOCATION AND QUANTITY OF ALL DUCT TYPE SMOKE DETECTORS WITH MECHANICAL CONTRACTOR. HARD WIRE TO RELAY STARTER.
 - PROVIDE SMOKE AND HEAT DETECTORS WITHIN ELEVATOR MACHINE ROOMS AND ELEVATOR HOST PITS.
 - PROVIDE CONNECTION OF FA SYSTEMS TO ALL MAGNETIC DOOR HOLD-OPEN DEVICES TO AUTOMATICALLY CLOSE DOORS DURING ALARM CONDITIONS.
 - DEVICES INDICATED ON FIRE ALARM ONE LINE ARE FOR REFERENCE ONLY. REFER TO PLAN DRAWINGS AND SPECIFICATIONS FOR QUANTITIES. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MAGNETIC DOOR HOLDER AND BLOW OPEN DOOR REQUIREMENTS.
 - ALL VISUAL DEVICES SHALL BE SYNCHRONIZED WITHIN THE BUILDING REGARDLESS OF PROJECT SCOPE BOUNDARIES.
 - PROVIDE FIRE ALARM RELAY MODULES FOR ALL DOORS WITH ACCESS CONTROL DEVICES.
 - PROVIDE (2) DUCT TYPE SMOKE DETECTOR FOR EACH FAN COIL UNIT, AHU, SUPPLY FAN AND HEAT PUMP OF 2000 CFM OR GREATER.
 - FIRE ALARM DEVICES SHOWN ARE FOR REFERENCE ONLY AND BASED UPON A PERFORMANCE SPECIFICATION. ALL NEW EQUIPMENT/DEVICE QUANTITIES, LOCATION, AND ALL NATIONAL & LOCAL CODE COMPLIANCE TO BE PROVIDED AND STAMPED BY A LICENSED FIRE ALARM ENGINEER AND INCLUDED IN THE FIRE ALARM CONTRACTORS BID. IN NO WAY ARE THE DEVICES SHOWN ON THESE DRAWINGS TO BE IMPLEMENTED AS FINAL DESIGN DOCUMENTS.
 - PROVIDE 120V CIRCUIT FROM THE NEAREST EQUIPMENT BRANCH PANELBOARD FOR FIRE SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5'-0" OF EACH FIRE SMOKE DAMPER. REFER TO DIAGRAM D012.
 - REFER TO ROOF ELECTRICAL SHEET AND MECHANICAL SHEETS FOR RTU/MECHANICAL EQUIPMENT DUCT DETECTOR LOCATIONS.
 - PROVIDE FIRE ALARM SYSTEM DUCT DETECTOR(S) AS REQUIRED. COORDINATE WITH DIVISION 23 CONTRACTOR FOR THE QUANTITY AND FOR MOUNTING IN MECHANICAL UNIT DUCT WORK.

BASEMENT SYSTEM PLAN
SCALE = 1/8" = 1'-0"

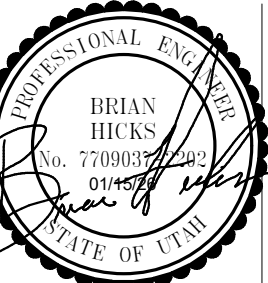


KEYPLAN



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DRAWN BY: MK
CHECKED BY: ES
DATE: JAN. 2026
PROJECT #: 176525

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