

250 Rowntree Dairy Road Woodbridge, Ontario
quasarcg.com t: 905.507.0800
Project No.: ED-24-069

Project Information

**Enniskillen Public School
Renovation**

8145 Old Scugog Road, Hampton, ON, L0B 1J0

Kawartha Pine Ridge District School Board

Drawing Title

**MECHANICAL LEGEND AND DRAWING
LIST**

Date	Project No	Drawing No
Drawn by I.I.	24018	M-00
Scale AS SHOWN		

Date	Project No	Drawing No
Drawn by I.I.	24018	M-00
Scale AS SHOWN		



1 KPRDSB ENNISKILLEN PS RENOVATION PHASE 2 - KEY PLAN
SCALE: 1:100

[illegible]

Orientation

	See
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All dimensions to be checked and verified on the job by the Contractor. Any discrepancies are to be reported to the Consultant prior to action. Only the latest approved drawings to be used for construction in conformance with all applicable codes, by-laws and regulations. All drawings remain the property of the Consultant.

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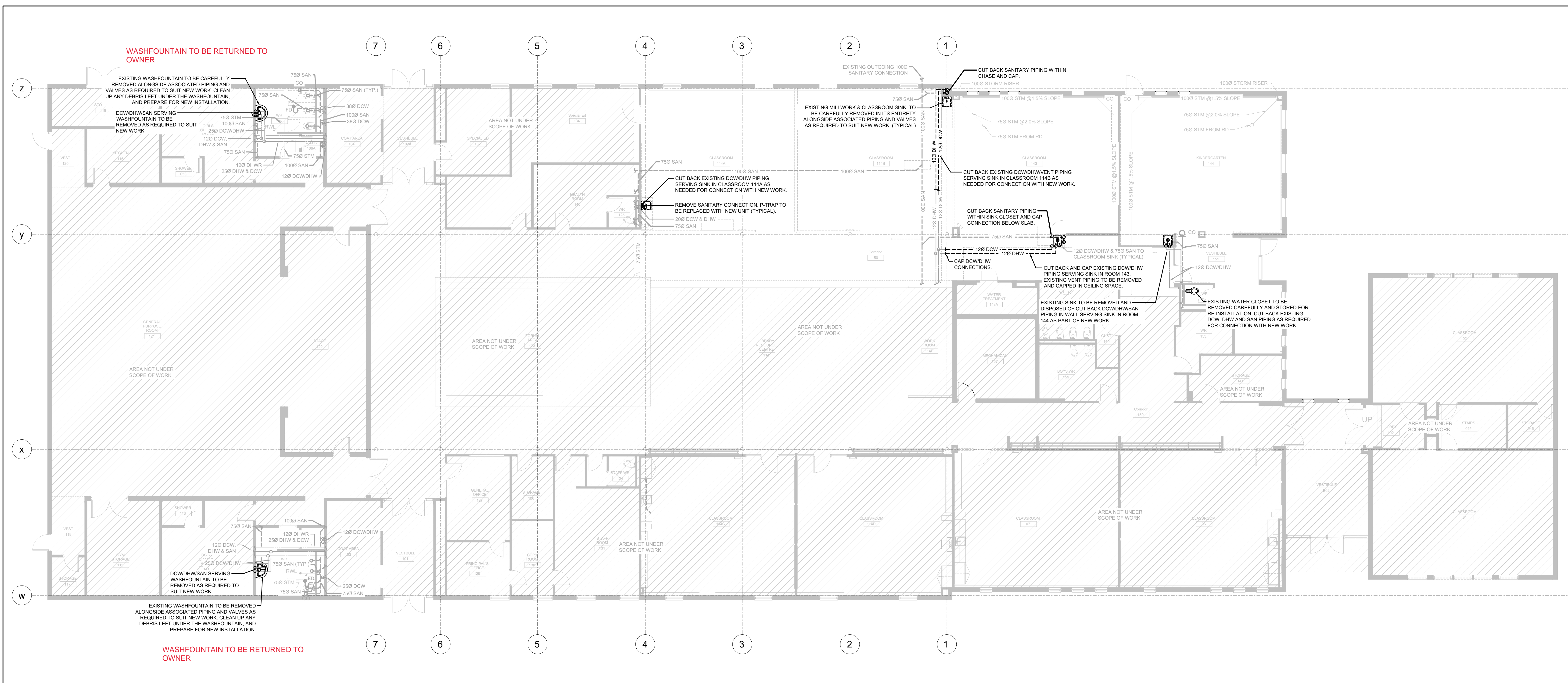
MECHANICAL KEY PLAN

Date	Project No	Drawing No
Drawn by I.I.	24018	M-100
Scale AS SHOWN		

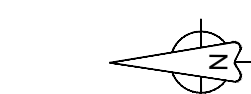
PLUMBING GENERAL NOTES - DEMOLITION

1. ALL MECHANICAL SERVICES SHOWN IN THIS DRAWING TO REMAIN UNLESS NOTED OTHERWISE.
2. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZES OF EXISTING SERVICES. COORDINATE WITH BASE BUILDING BEFORE COMMENCEMENT OF WORK.
3. ALL DEMOLISHED FIXTURES ARE TO BE DISPOSED OF UNLESS STATED OTHERWISE. IN THAT CASE, MECHANICAL CONTRACTOR IS TO REVIEW ANY REMAINDING FIXTURES WITH OWNER AND DETERMINE IF IT IS TO BE KEPT OR DISPOSED OF. COORDINATE WITH OWNER A DESIGNATED SUITABLE STORAGE LOCATION IF KEPT.
4. EXISTING ISOLATION VALVES SERVING PLUMBING FIXTURES ARE TO BE REMOVED AND REPLACED AS A PART OF THIS SCOPE. CONTRACTOR TO INCLUDE FOR ANY SYSTEM DRAINING OR PIPE FREEZING REQUIRED TO FACILITATE REPLACEMENT OF ISOLATION VALVES.
5. CONTRACTOR SHALL ENSURE ALL NEWLY INSTALLED AND EXISTING FLOOR DRAINS ARE TO BE TRAP SEAL PRIMED.

JUST WASHROOMS?

[illegible]

Orientation



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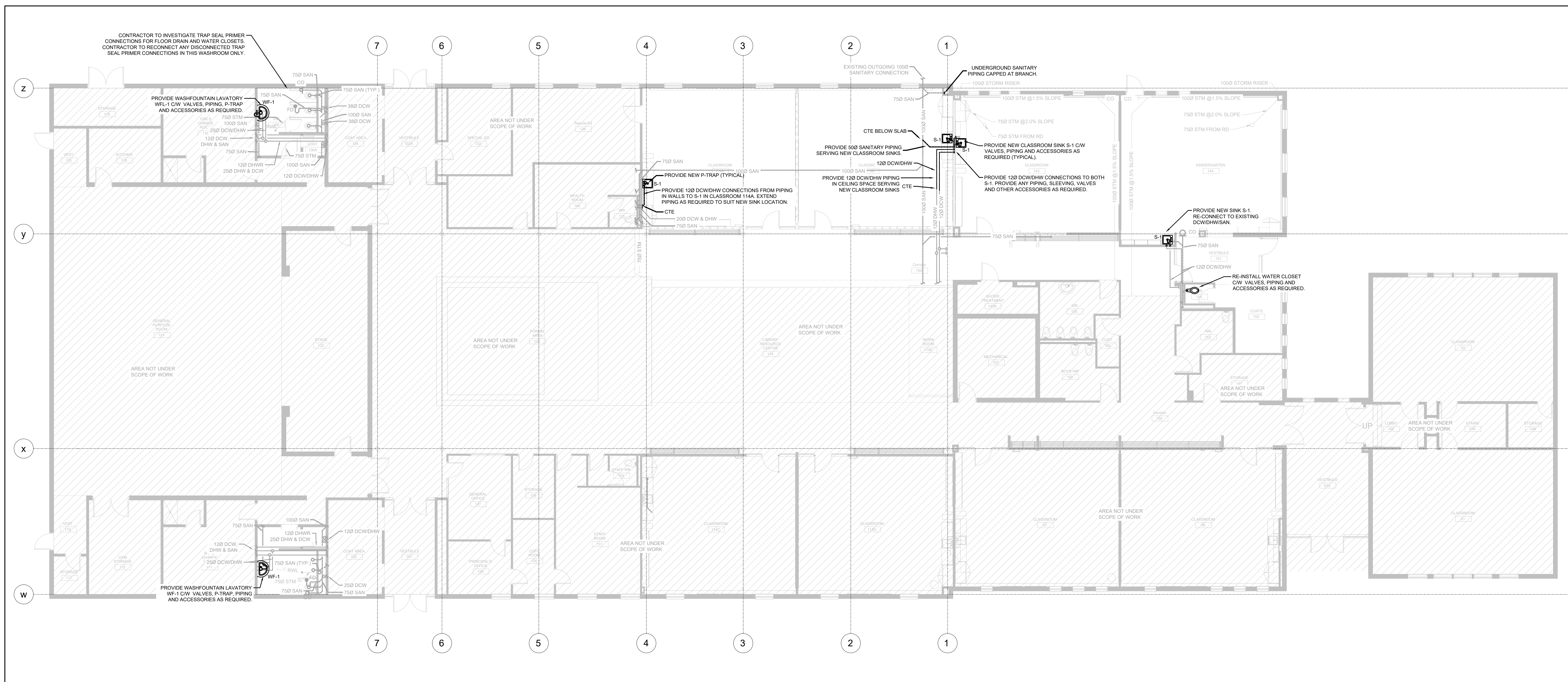
Drawing Title

PLUMBING DEMOLITION -GROUND FLOOR

Date	Project No	Drawing No
Drawn by I.I.	24018	M-20
Scale AS SHOWN		


PLUMBING GENERAL NOTES - NEW WORK

1. ALL MECHANICAL SERVICES SHOWN IN THIS DRAWING TO REMAIN UNLESS NOTED OTHERWISE.
2. CONTRACTOR TO VERIFY EXIST LOCATION AND SIZES OF EXISTING SERVICES. COORDINATE WITH BASE BUILDING BEFORE COMMENCEMENT OF WORK.
3. VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION NOTING THE ENGINEER OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCE.
4. PLUMBING AND SANITARY DRAINAGE LOCATIONS AS SHOWN ON PLANS IS TO SHOW DESIGN INTENT. CONTRACTOR SHALL COORDINATE ROUTING AND ALL NECESSARY FITTINGS TO ACCOMMODATE THE SITE CONDITIONS AND TO MEET THE DESIGN INTENT.
5. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND WALLS TO FACILITATE THE INSTALLATION OF THE MECHANICAL SERVICES OUTLINED FOR THIS SCOPE OF WORK.
6. COORDINATE ALL SPRINKLER BRANCH PIPING WITH ALL NEW AND EXISTING EQUIPMENT AND SERVICES. RELOCATE SPRINKLER LINES TO FACILITATE THE INSTALLATION OF SERVICES AS REQUIRED.
7. ENSURE THAT ALL NEW AND EXISTING MECHANICAL EQUIPMENT REQUIREMENT MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW OR EXISTING SERVICES AND STRUCTURE. COORDINATE WITH PROJECT MANAGER AND ALL OTHER TRADES. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED TO PROVIDE ALL ACCESS REQUIREMENTS. AFTER THE DRAWING REVIEW AND REVISIONS ARE COMPLETED, THE CONTRACTOR SHALL REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND MECHANICAL ENGINEER. PROVIDE ACCESS DOORS/PANELS TO MATCH BASE BUILDING STANDARD AS REQUIRED.
8. PLUMBING AND SANITARY DRAINAGE LOCATIONS AS SHOWN ON PLANS IS TO SHOW DESIGN INTENT. CONTRACTOR SHALL COORDINATE ROUTING AND ALL NECESSARY FITTINGS TO ACCOMMODATE THE SITE CONDITIONS AND TO MEET THE DESIGN INTENT.
9. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND WALLS TO FACILITATE THE INSTALLATION OF THE MECHANICAL SERVICES OUTLINED FOR THIS SCOPE OF WORK.
10. SCOPE AND SCAN STRUCTURAL FLOOR (SLAB ON GRADE) TO ASCERTAIN ACTUAL LOCATION AND LEVEL OF EXISTING BURIED SANITARY DRAIN PIPING - DRAWINGS ARE APPROXIMATE AND ARE FOR PRICING PURPOSES ONLY. FOR NEW BURIED SANITARY DRAIN PIPING, PROVIDE SCANNING, SAW-CUTTING, BACK-FILL, CONCRETE, SCREED, AND MAKING COMPLETE FLOOR GOOD. ASCERTAIN LEVEL OF EXISTING SANITARY DRAIN PIPING TO SEE IF NEW SANITARY DRAIN PIPING CAN CONNECT TO IT AS INDICATED. IF NOT, PROVIDE SEPARATE CONCRETE TO PROVIDE NEW BURIED SANITARY DRAIN PIPING AT THE SAME LEVEL AS EXISTING SANITARY DRAIN PIPING.



1 RENOVATION - PLUMBING PLAN - NEW WORK
SCALE: 1:100

[illegible]

<p>Orientation</p> 	<p>Seal</p>
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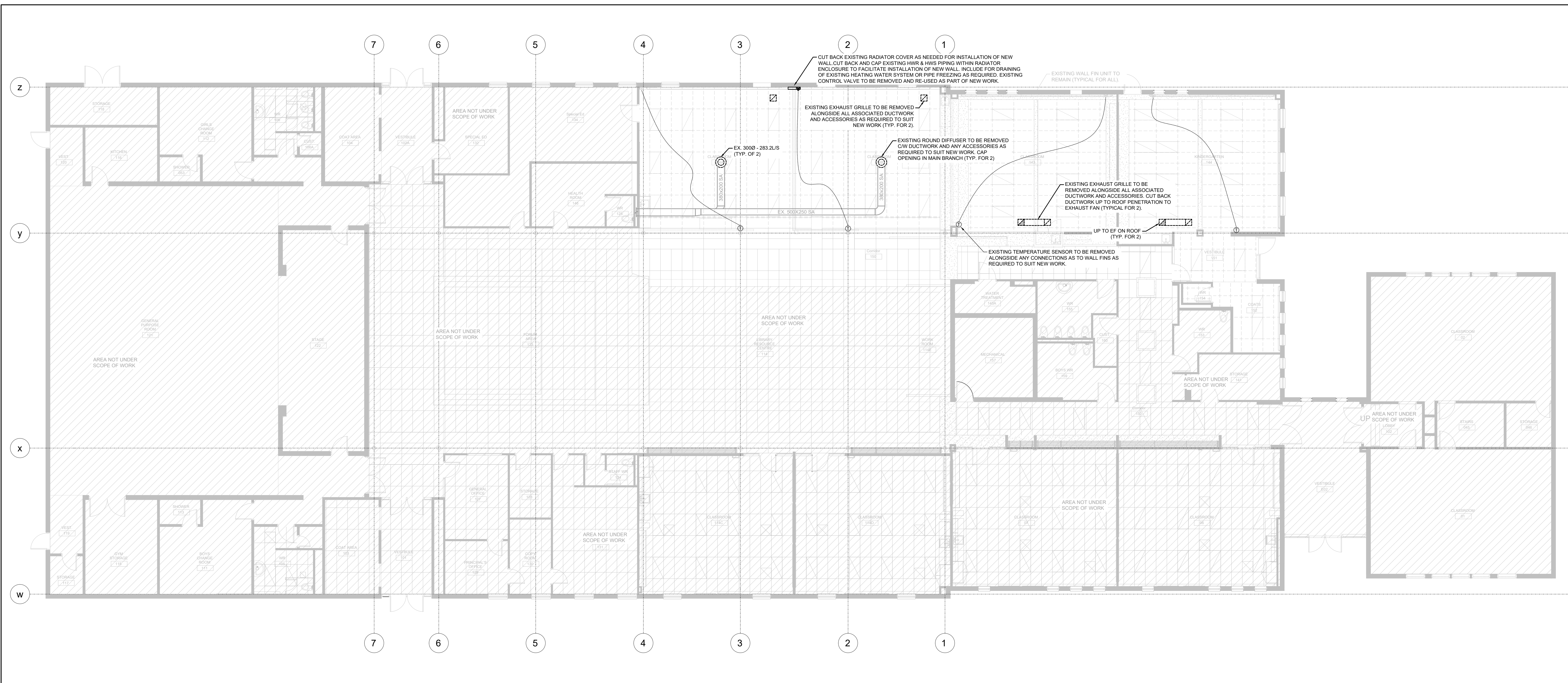
For
Kawartha Pine Ridge District School Board

PLUMBING NEW WORK - GROUND FLOOR

Date	Project No	Drawing No
Drawn by I.I.	24018	M-250
Scale AS SHOWN		

HVAC GENERAL NOTES - DEMOLITION

1. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO COMPLETE INSTALLATION. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES. CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS TO CONSULTANT FOR REVIEW AND DIRECTION.
2. ALL MECHANICAL SERVICES SHOWN IN THIS DRAWING TO REMAIN UNLESS NOTED OTHERWISE.
3. REFER TO SPECIFICATIONS FOR RESTRICTED HOURS. RESTRICTED HOURS MAY VARY DEPENDING ON ACTIVITY AND LOCATION.
4. THE MECHANICAL DRAWINGS ARE PERFORMANCE DRAWINGS, DIAGRAMMATIC, AND SHOW APPROXIMATE LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. ANY INFORMATION REGARDING ACCURATE MEASUREMENT OF THE BUILDING ARE TO BE TAKEN AT THE SITE. DO NOT SCALE THE DRAWINGS, AND DO NOT USE THE DRAWINGS FOR CONSTRUCTION.
5. SEQUENCE MECHANICAL AND ELECTRICAL TO MAINTAIN EXISTING SERVICES OPERATIONAL, IN ADJACENT OCCUPIED AREAS.
6. COORDINATE ALL WORK THAT EXTENDS BEYOND WORK BOUNDARY WITH OWNER AS REQUIRED
7. CONTRACTOR IS TO BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DUCTWORK AND EQUIPMENT AS SHOWN ON THE DEMOLITION PLAN.
8. CONTRACTOR TO PROVIDE MINIMUM 24HRS SHUT-DOWN NOTICE AND OBTAIN SIGN-OFF FROM THE OWNER PRIOR TO THE SHUTDOWN OF ANY SYSTEMS OR SERVICES.



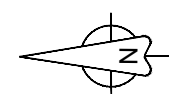
1 RENOVATION - HVAC PLAN - DEMOLITION
SCALE: 1:100

[illegible]

No.	Revision	Date
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Orientation

Seal



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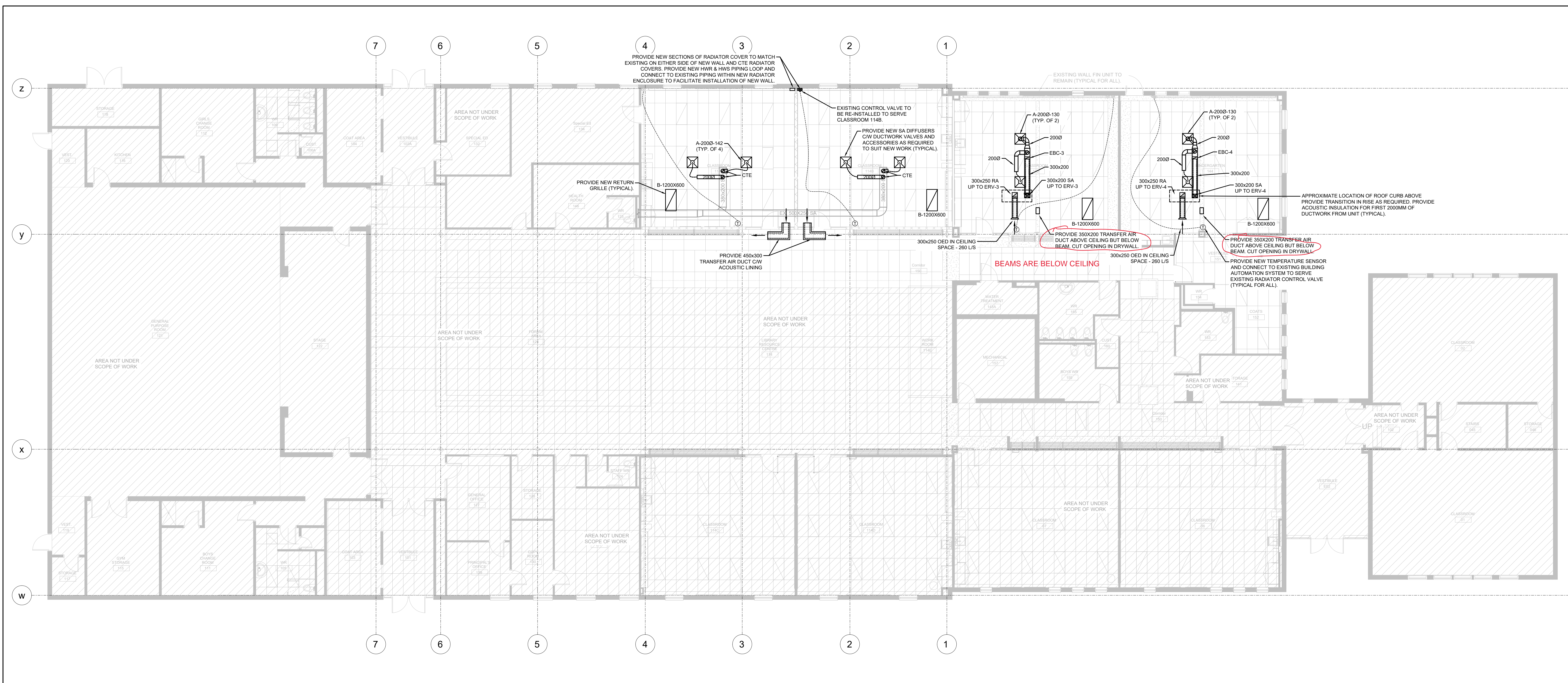
Drawing Title

HVAC DEMOLITION - GROUND FLOOR

Date	Project No	Drawing No
Drawn by I.I.	24018	M-30
Scale AS SHOWN		

HVAC GENERAL NOTES - NEW WORK

1. ALL MECHANICAL SERVICES SHOWN IN THIS DRAWING TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL EXISTING DUCT WORK TO REMAIN UNLESS NOTED OTHERWISE. REPLACE ALL BROKEN, CRUSHED, OR DAMAGED DUCTS.
3. CONTRACTOR TO RE-BALANCE AIR FLOW AS SHOWN ON DRAWING AND PROVIDE AIR BALANCING REPORT TO ENGINEER FOR REVIEW.
4. COORDINATE WITH BASE BUILDING PRIOR TO START OF WORK.
5. VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND INCLUDE ADDITIONAL COSTS IN BID TO FACILITATE INSTALLATION. NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES.
6. DUCT LAYOUT AS SHOWN ON PLANS IS TO SHOW DESIGN INTENT. CONTRACTOR SHALL COORDINATE DUCT ROUTE AND ALL NECESSARY FITTINGS TO ACCOMMODATE THE SITE CONDITIONS AND TO MEET THE DESIGN INTENT.
7. ALL CONTROL WIRING FROM EQUIPMENT TO WALL MOUNTED THERMOSTATS SHALL BE INSTALLED NEATLY AND TIGHT TO UNDERSIDE OF SLAB STRUCTURE.
8. ALL DUCT SHALL BE RIGID DUCT. FLEXIBLE DUCT CAN BE USED TO CONNECT AIR OUTLET FROM RIGID DUCT. MAXIMUM FLEXIBLE DUCT SHALL NOT EXCEED 15 METERS.
9. PROVIDE ALL NECESSARY HARDWARE TO SUPPORT NEW AND EXISTING AIR TERMINALS. AS PER MANUFACTURER RECOMMENDATIONS.
10. ALL NEW AND EXISTING MECHANICAL EQUIPMENT REQUIRING MAINTENANCE SHALL BE ACCESSIBLE. ENSURE THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW OR EXISTING SERVICES AND STRUCTURE - COORDINATE WITH PROJECT MANAGER AND ALL OTHER TRADES. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY TO PROVIDE ALL ACCESS REQUIREMENTS. REFER TO SHOP DRAWINGS AND/OR MANUFACTURER'S RECOMMENDATIONS FOR ACCESS REQUIREMENTS. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND MECHANICAL ENGINEER. PROVIDE ACCESS DOOR/PANELS TO MATCH BASE BUILDING STANDARD AS REQUIRED.
11. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND WALLS TO FACILITATE DEMOLITION AND THE INSTALLATION OF THE MECHANICAL SERVICES OUTLINED FOR THIS SCOPE OF WORK.
12. SEQUENCE MECHANICAL AND ELECTRICAL WORK TO MAINTAIN EXISTING SERVICES OPERATIONAL IN ADJACENT OCCUPIED AREAS.
13. COORDINATE ALL WORK THAT EXTENDS BEYOND WORK BOUNDARY WITH OWNER AS REQUIRED
14. CONTRACTOR IS TO BE RESPONSIBLE FOR THE CAREFUL REMOVAL AND DISPOSAL OF ALL EQUIPMENT AS SHOWN ON THE DEMOLITION PLAN.
15. CONTRACTOR TO PROVIDE MINIMUM 24HRS SHUT-DOWN NOTICE AND DETAIL SIGN-OFF FROM THE OWNER PRIOR TO THE SHUT-DOWN OF ANY SYSTEMS OR SERVICE.

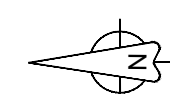


1 RENOVATION - HVAC PLAN - NEW WORK
SCALE: 1:100

[illegible]

Orientation

Seal



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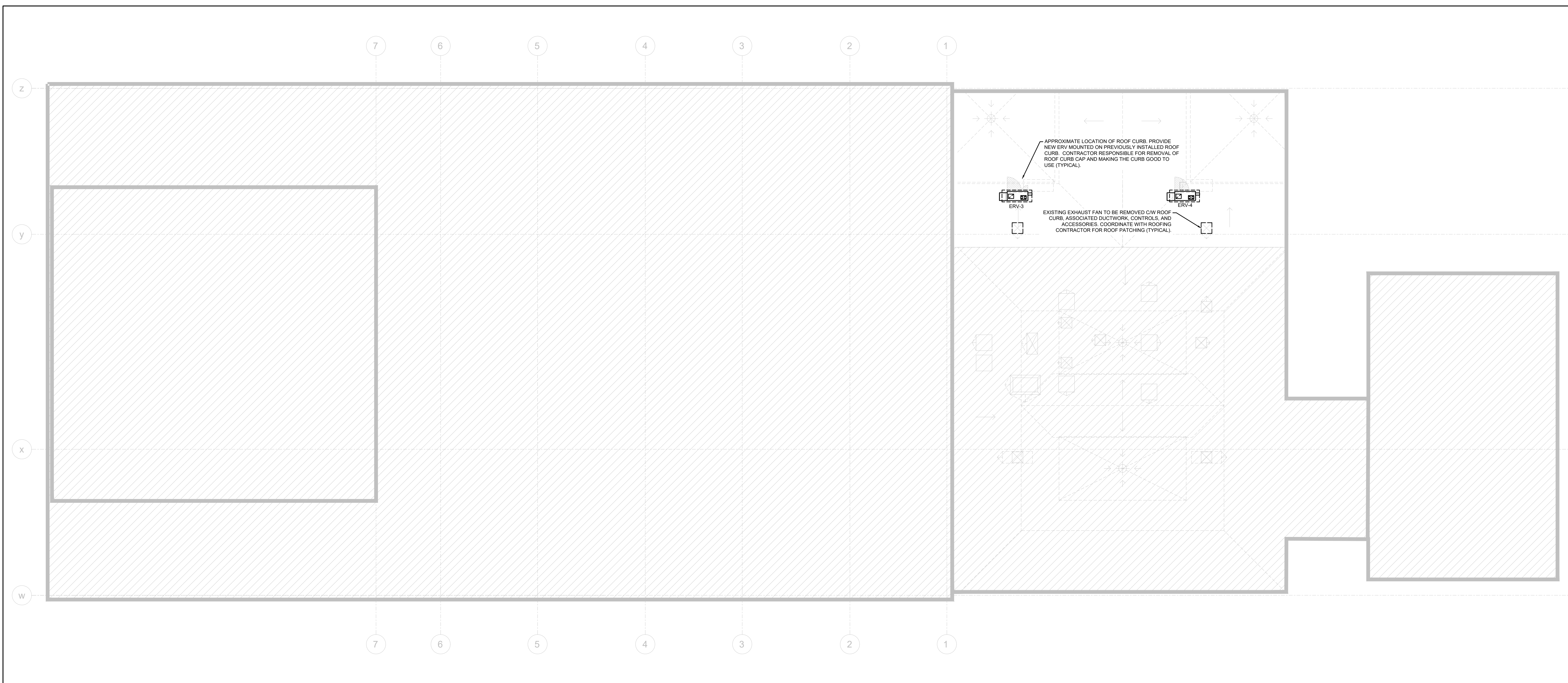
Drawing Title

HVAC NEW WORK - GROUND FLOOR

Date	Project No	Drawing No
Drawn by I.I.	24018	M-35
Scale AS SHOWN		

HVAC GENERAL NOTES - ROOF

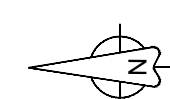
1. ALL MECHANICAL SERVICES SHOWN IN THIS DRAWING TO REMAIN UNLESS NOTED OTHERWISE.
2. CONTRACTOR TO VERIFY EXIST LOCATION AND SIZES OF EXISTING SERVICES. COORDINATE WITH BASE BUILDING BEFORE COMMENCEMENT OF WORK.
3. COORDINATE WITH BASE BUILDING PRIOR TO START OF WORK.
5. VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND INCLUDE ADDITIONAL COSTS IN BID TO FACILITATE INSTALLATION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES.
10. ALL NEW AND EXISTING MECHANICAL EQUIPMENT REQUIRING MAINTENANCE SHALL BE ACCESSIBLE. ENSURE THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW OR EXISTING SERVICES AND STRUCTURE. COORDINATE WITH PROJECT MANAGER AND ALL OTHER TRADES. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER AS TO PROVIDE ACCESS REQUIREMENTS. REFER TO SHOP DRAWINGS AND/OR MANUFACTURERS' RECOMMENDATIONS FOR ACCESS REQUIREMENTS. REPORT ANY OBSTRUCTIONS TO THE PROJECT MANAGER AND MECHANICAL ENGINEER. PROVIDE ACCESS CORRESPONDING TO MATCH BASE BUILDING OF EXISTING AS REQUIRED.
11. PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING ROOF TO FACILITATE DEMOLITION AND THE INSTALLATION OF THE MECHANICAL SERVICES OUTLINED FOR THIS SCOPE OF WORK.
12. SEQUENCE MECHANICAL AND ELECTRICAL WORK TO MAINTAIN EXISTING SERVICES OPERATIONAL IN ADJACENT OCCUPIED AREAS.
13. COORDINATE ALL WORK THAT EXTENDS BEYOND WORK BOUNDARY WITH OWNER AS REQUIRED.
14. CONTRACTOR IS TO BE RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF ALL EQUIPMENT AS SHOWN AS DEMOLISHED ON THE PLAN.
15. CONTRACTOR TO PROVIDE MINIMUM 24HRS SHUT-DOWN NOTICE AND OBTAIN SIGN-OFF FROM THE OWNER PRIOR TO THE SHUTDOWN OF ANY SYSTEMS SERVING THE PROJECT.



1 HVAC - ROOFTOP PLAN - DEMOLITION AND NEW WORK
SCALE: 1:100

[illegible]

Orientation	Seal
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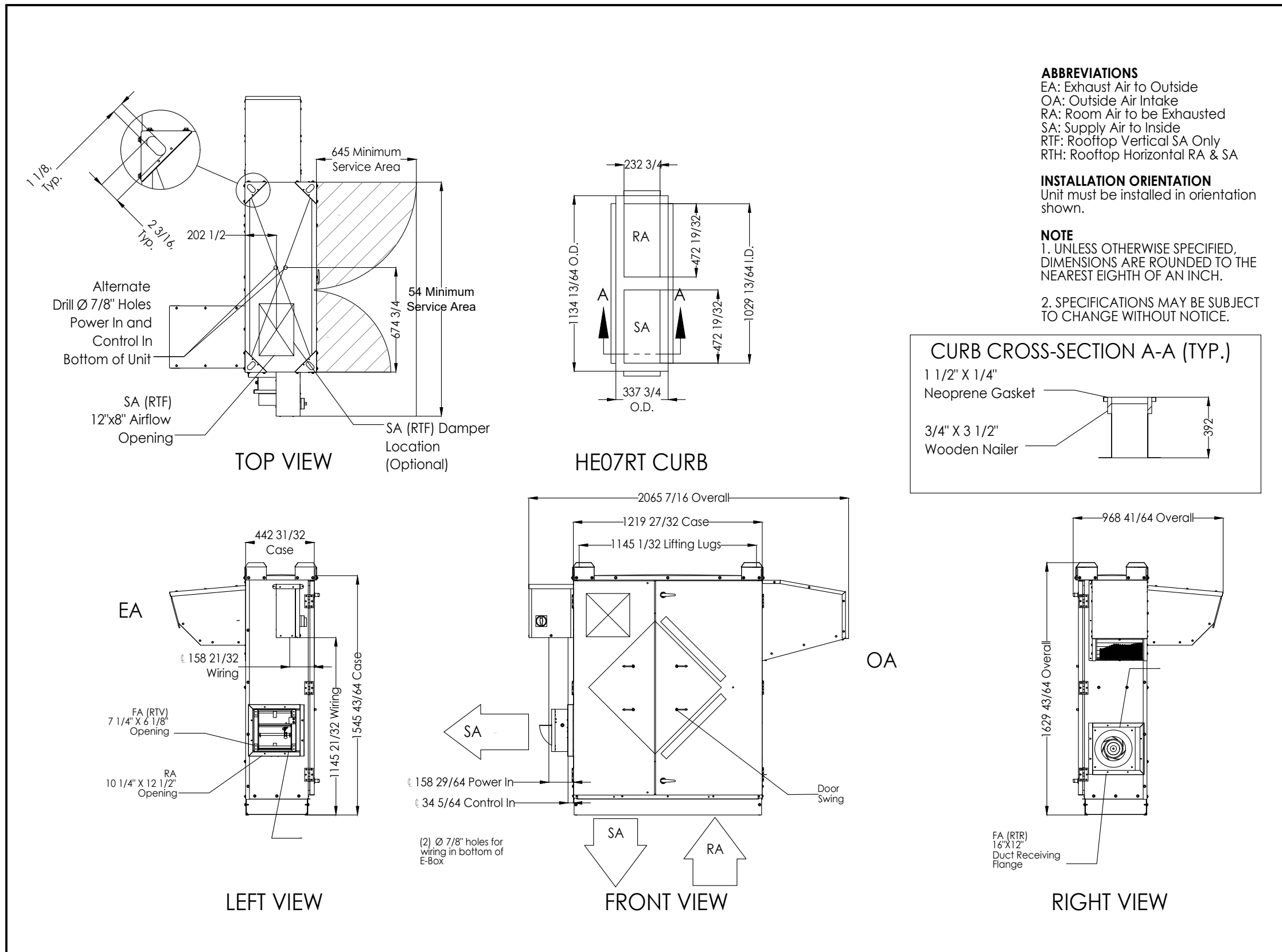
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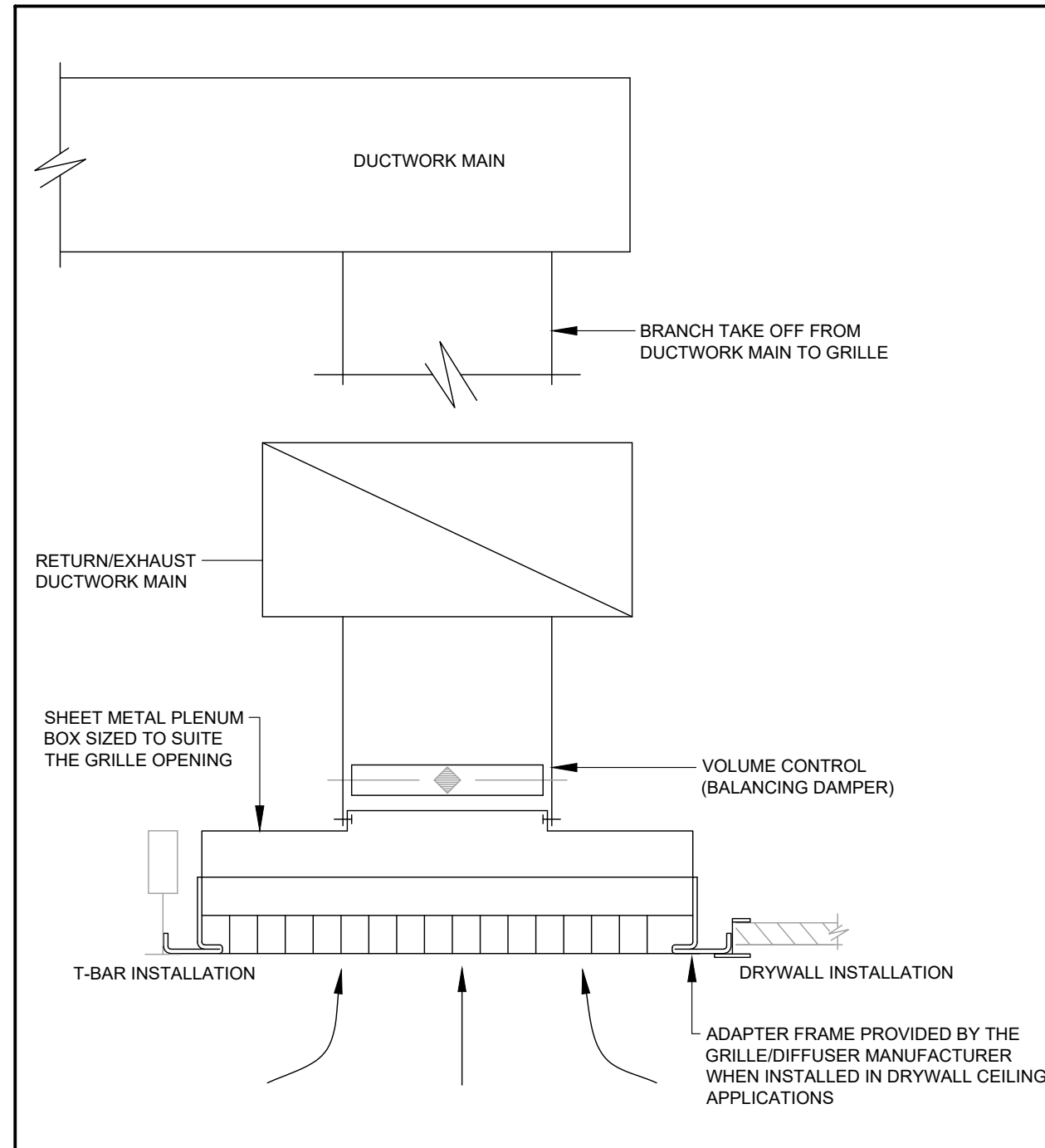
Drawing Title

HVAC ROOF PLAN

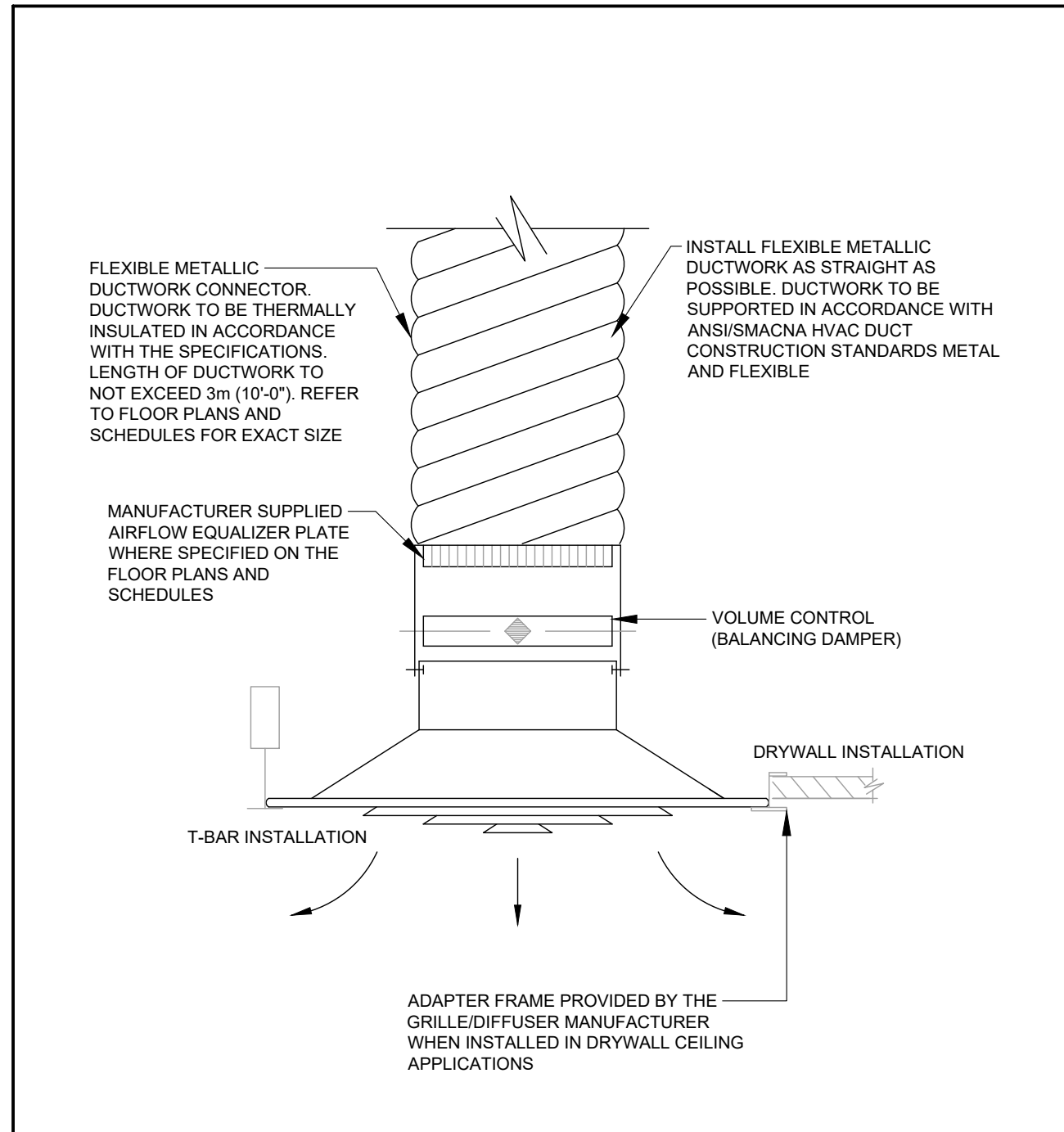
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Drawn by I.I.	24018	M-35
Scale AS SHOWN		



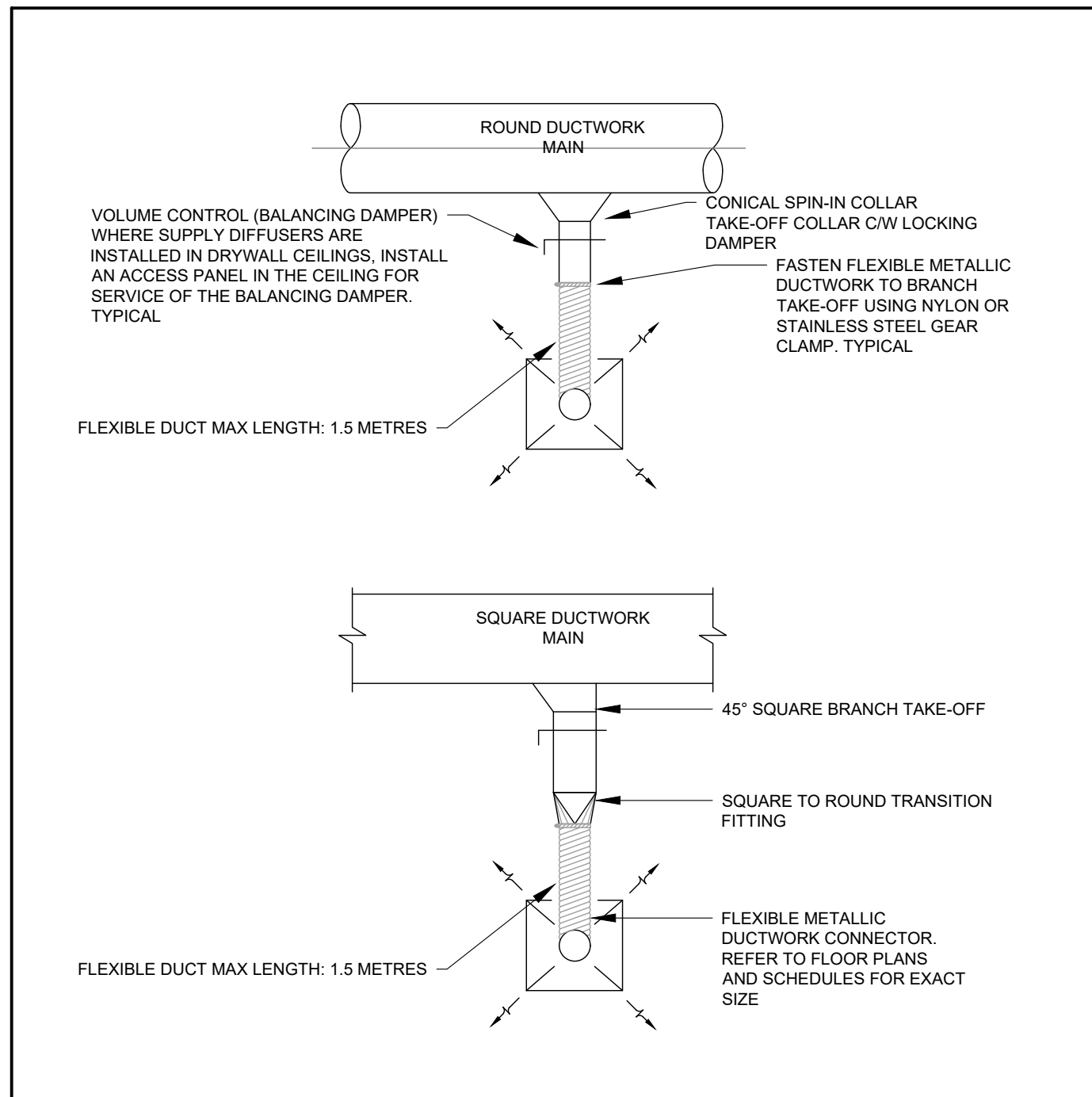
23 72 00.01 ROOF MOUNTED ENERGY RECOVERY VENTILATOR DETAILS
NOT TO SCALE



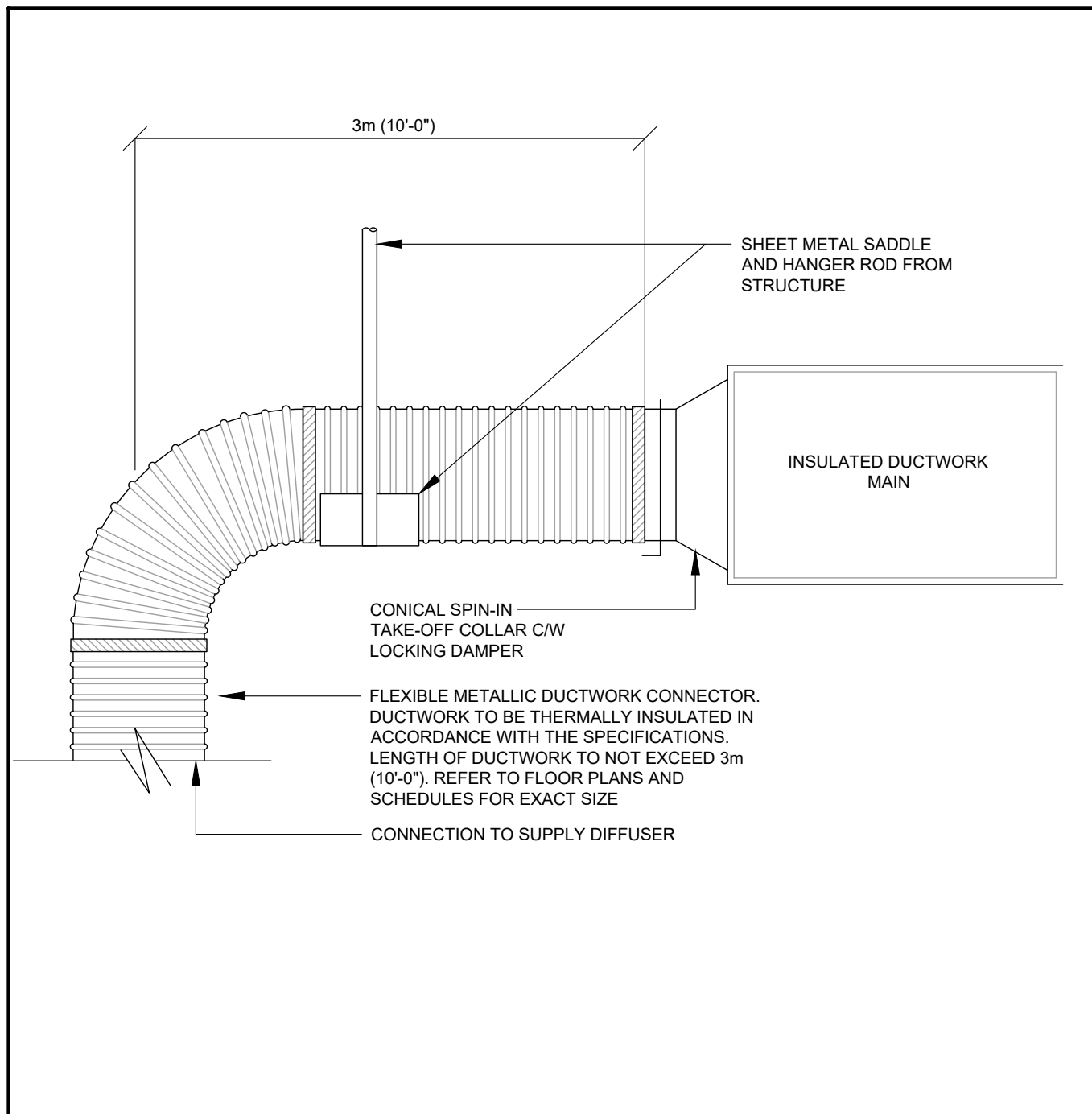
23 30 42.02 CEILING MOUNTED GRILLE
NOT TO SCALE



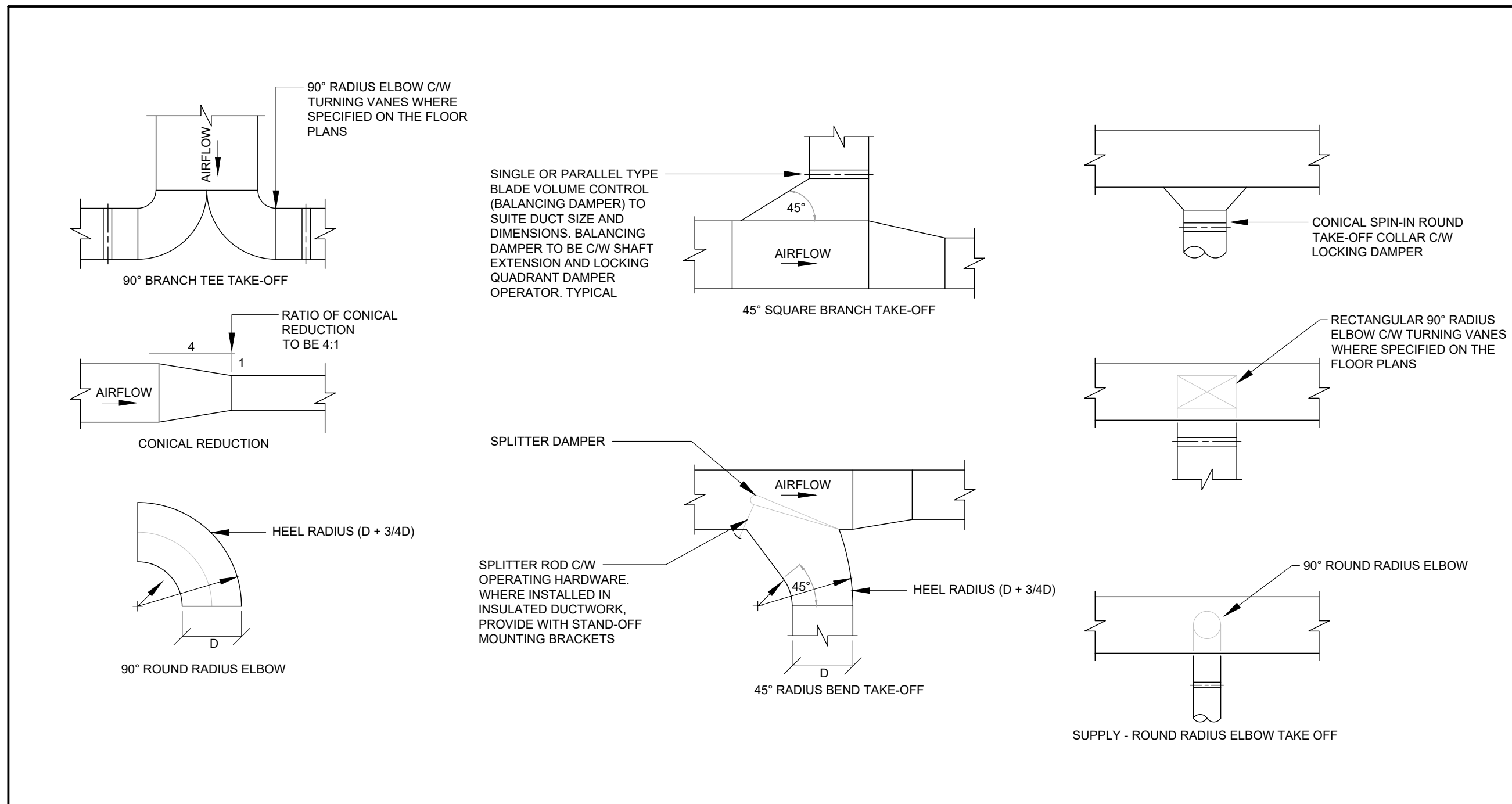
23 30 42.01 CEILING MOUNTED DIFFUSER
NOT TO SCALE



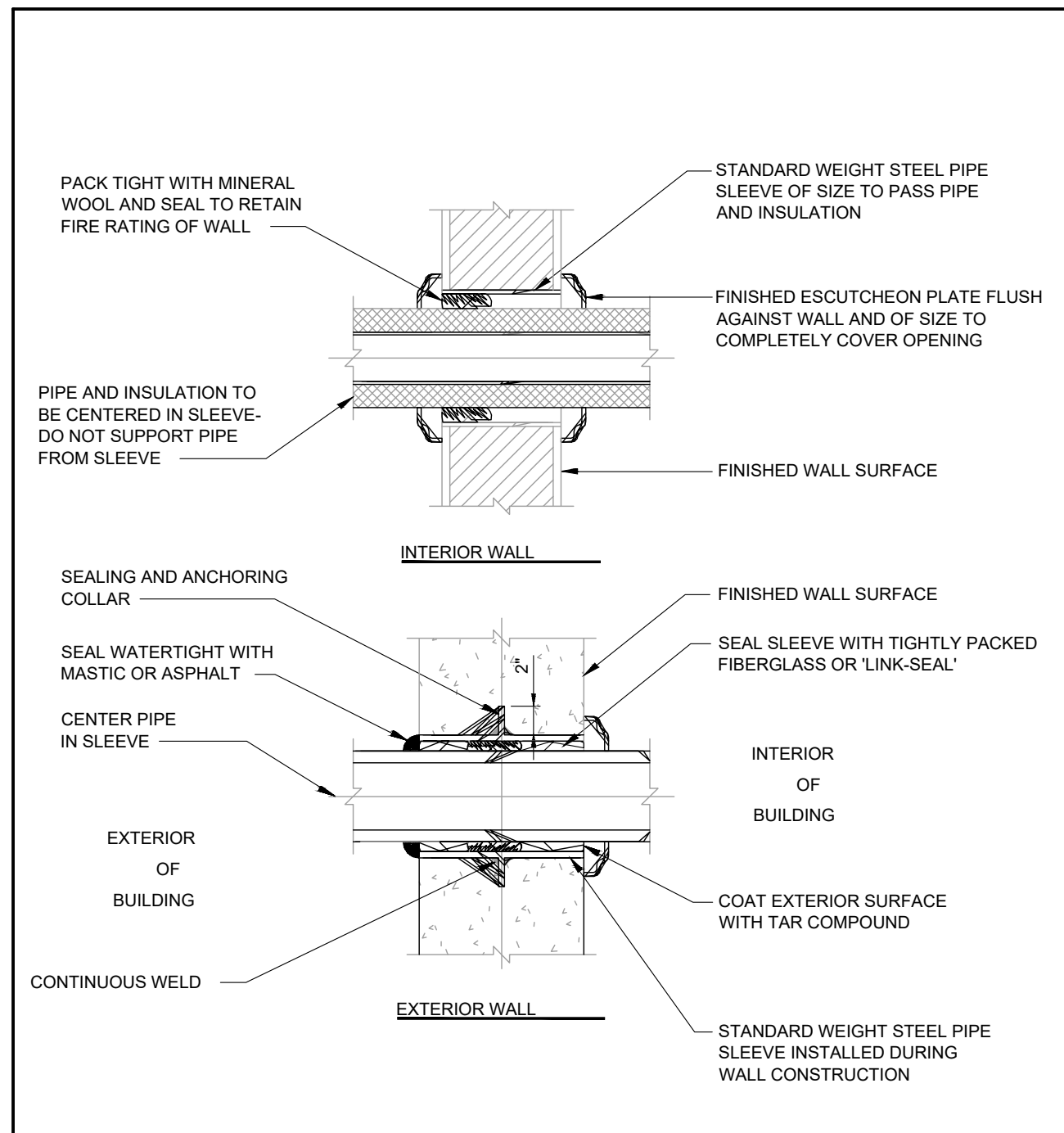
23 30 09.02 FLEXIBLE METALLIC DUCTWORK CONNECTION
NOT TO SCALE



23 30 09.01 FLEXIBLE METALLIC DUCTWORK
NOT TO SCALE

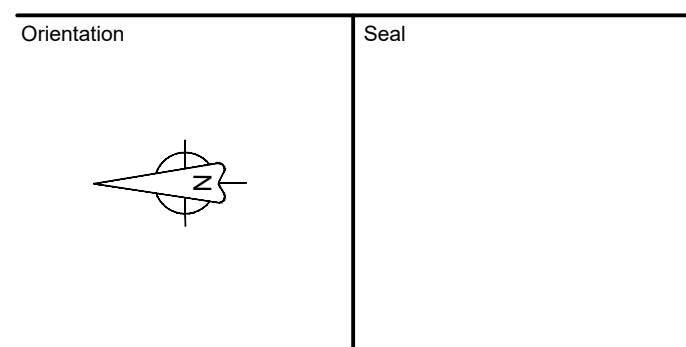


23 30 00.01 DUCTWORK FITTINGS & TAKE-OFF'S
NOT TO SCALE



20 05 00.12 DETAIL OF PIPING PENETRATION THROUGH WALL
NOT TO SCALE

No.	Revision	Date
2.	Issued for Owner Review	2025-01-31
1.	Issued for Coordination	2025-01-29



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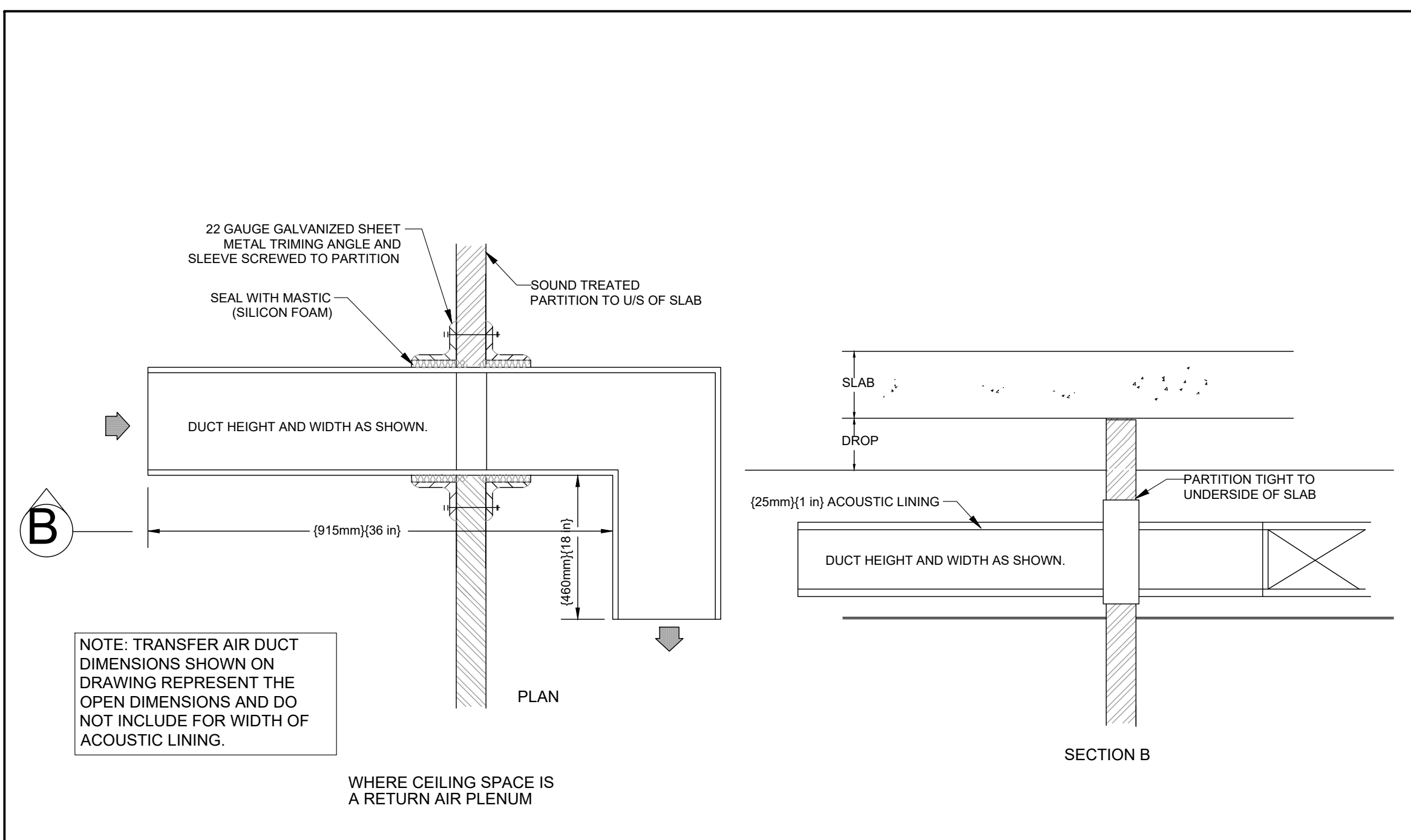
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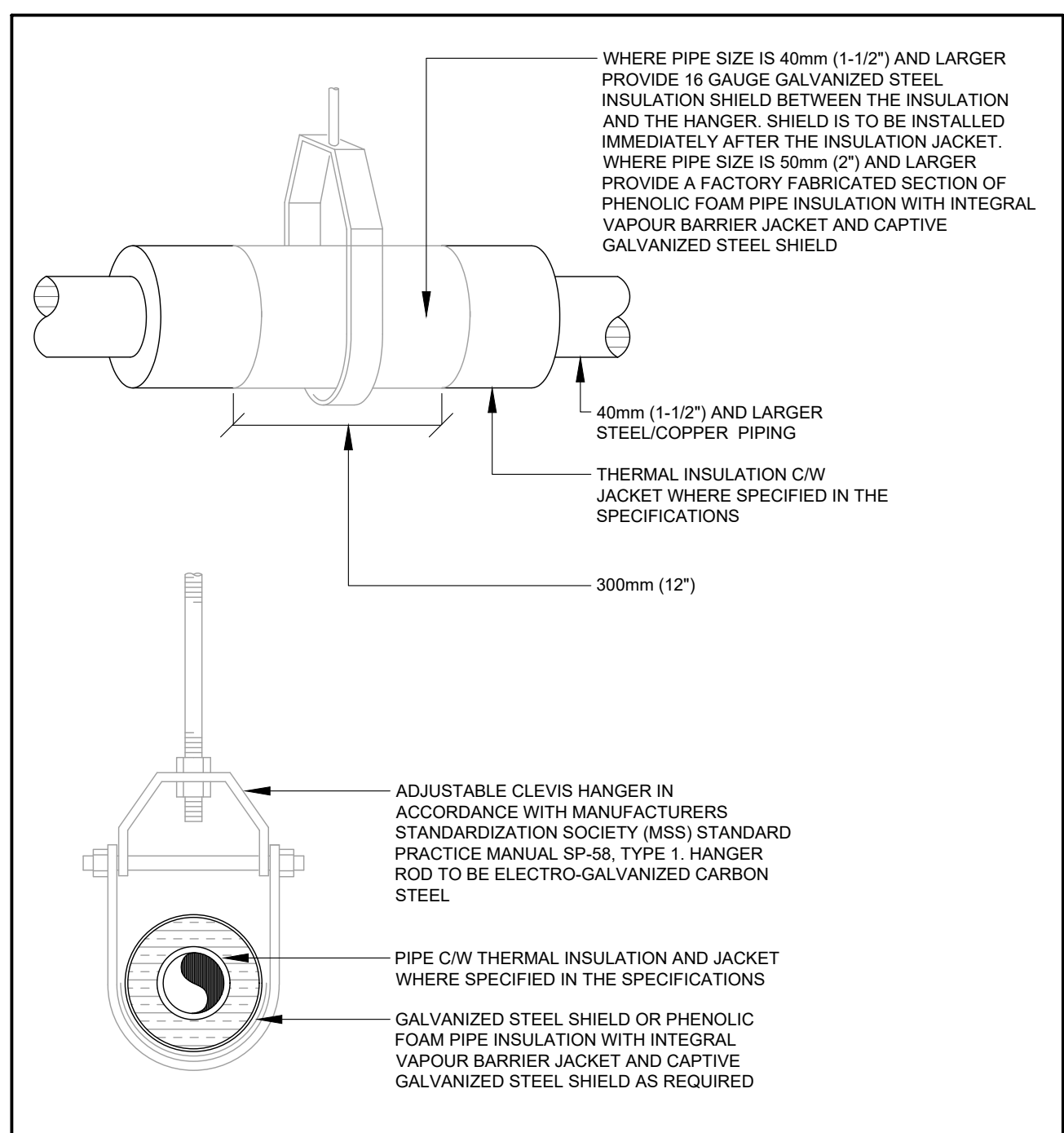
Drawing Title

MECHANICAL DETAILS

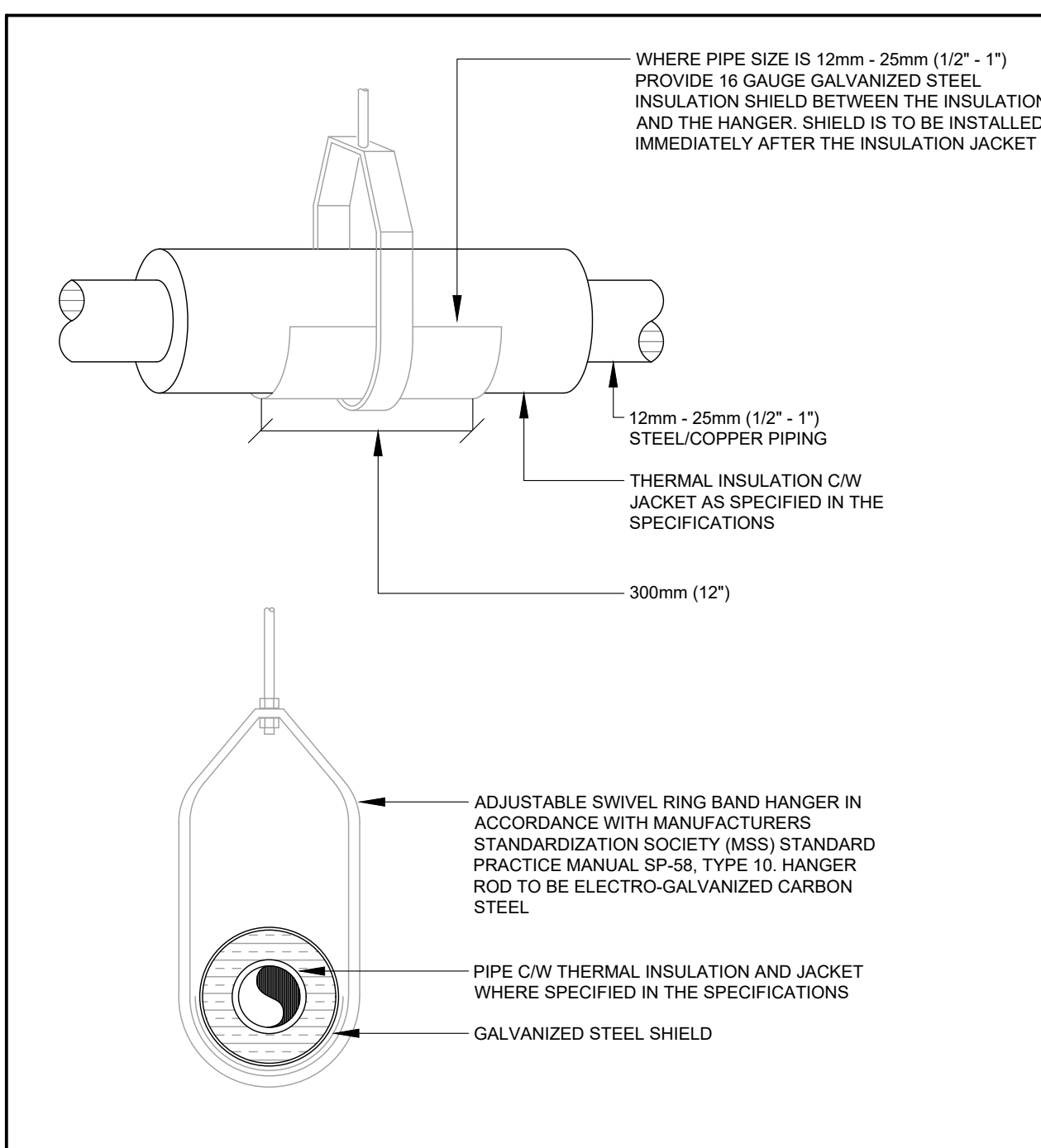
Date	Project No	Drawing No
Drawn by I.I.	24018	M-600
Scale AS SHOWN		



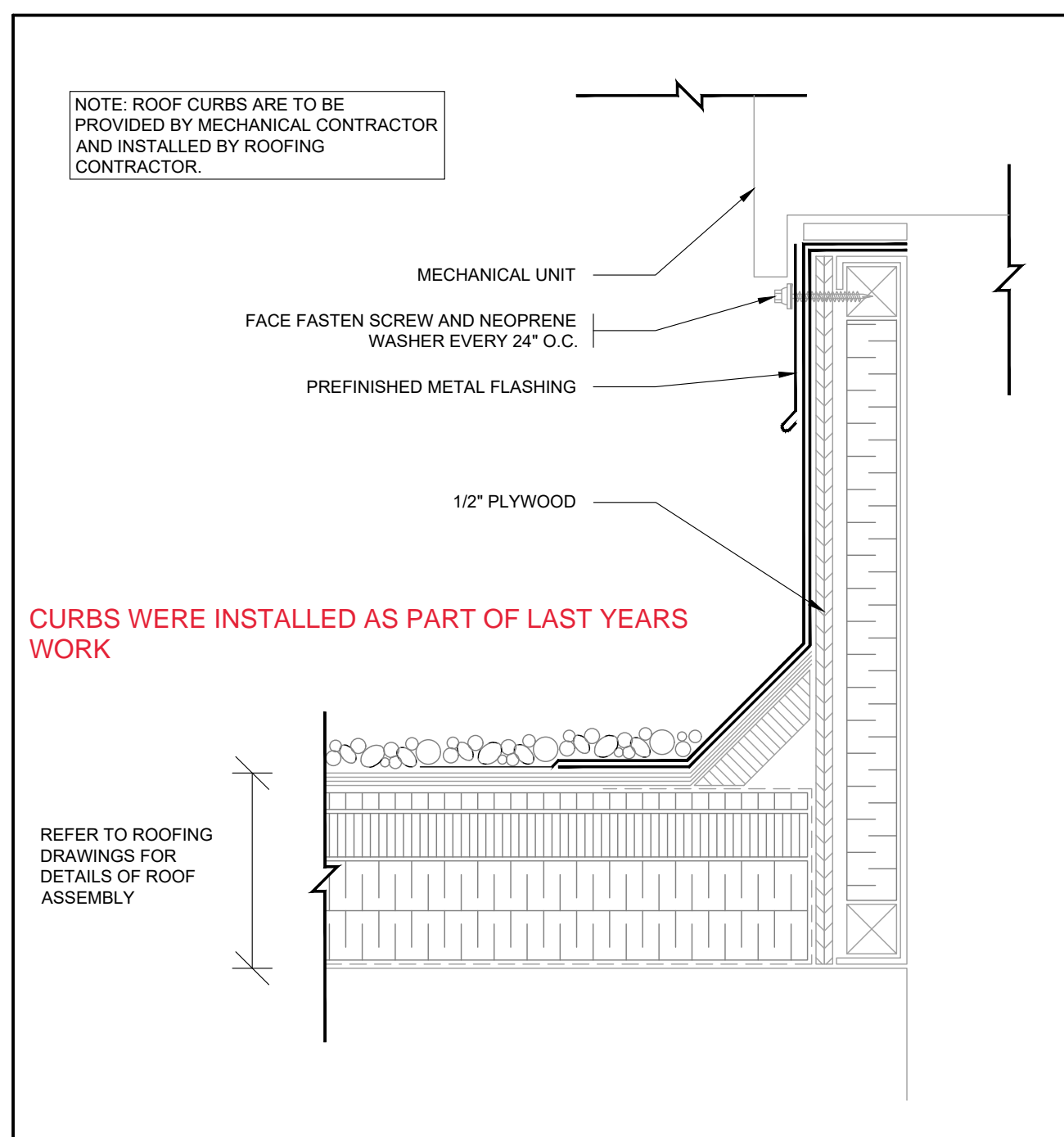
23 30 00.10 TYPICAL TRANSFER AIR DUCT DETAIL
NOT TO SCALE



20 05 00.04 PIPING HANGERS AND SUPPORTS
NOT TO SCALE

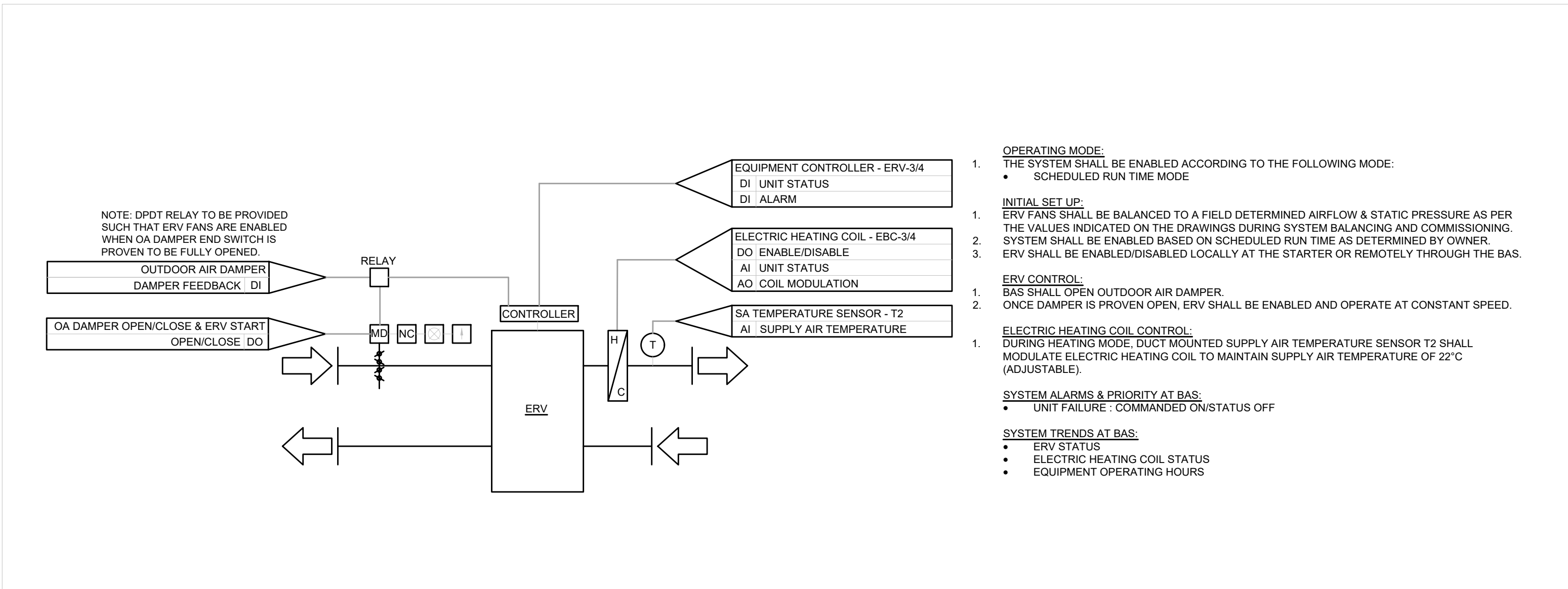


20 05 00.03 PIPING HANGERS AND SUPPORTS
NOT TO SCALE



20 05 00.02 DETAIL OF PREFABRICATED ROOF CURB
NOT TO SCALE

GENERAL NOTE:
1. THE BUILDING HAS AN EXISTING AUTOMATION SYSTEM. THE INTENT IS TO EXPAND THE EXISTING AUTOMATION SYSTEM FOR ALL NEW EQUIPMENT ADDED. ALL CONTROLS WORK IS TO BE BY BASE BUILDING CONTROLS CONTRACTOR - SETPOINT BUILDING AUTOMATION. CONTACT MATT JEWELL (MATTHEWJ@SETPONT.CA, 249-387-1333).



1 ENERGY RECOVERY VENTILATOR - ERV-3 & ERV-4 - CONTROL SEQUENCE

TAG	LOCATION	DUCT DIMENSIONS [MM]	CAPACITY [KW]	AIRFLOW [L/S]	AIR TEMPERATURE RISE [C°]	ELECTRICAL [V/Hz]	SIZE
EBC-3	CLASSROOM 143	350X200	4	260	13	208/360	600X600
EBC-4	KINDERGARTEN 144	350X200	4	260	13	208/360	600X600

NOTES:
 1. PROVIDE SCR CONTROL FOR MODULATING CONTROL OF SUPPLY AIR TEMPERATURE.
 2. REFER TO SPECIFICATIONS AND CONTROL SEQUENCES FOR MORE REQUIREMENTS.

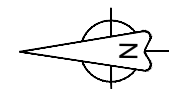
GRILLES, REGISTERS AND DIFFUSERS SCHEDULE				
TAG	MANUFACTURER	MODEL	TYPE	SIZE
A	EH PRICE	SCD	SQUARE CONE DIFFUSER, NECK SIZE SHOWN ON FLOOR PLANS	600X600
B	EH PRICE	80	EGG GRATE RETURN GRILLE, 2-BAR LAY-IN	600X600

NOTES:
 1. FINAL FINISH TO BE SELECTED BY ARCHITECT
 2. REFER TO ARCHITECTURAL RCPS FOR CEILING TYPE AND PROVIDE ALL REQUIRE MOUNTING HARDWARE

SCHEDULE OF ENERGY RECOVERY VENTILATORS																						
TAG	MANUFACTURER OR EQUAL	MODEL NO.	SUPPLY FAN		EXHAUST FAN		SUMMER						WINTER						ELECTRICAL			REMARKS
			AIRFLOW [L/S]	ESP [Pa]	AIRFLOW [L/S]	ESP [Pa]	ENTERING AIR TEMP [C°]				LEAVING AIR TEMP [C°]		ENTERING AIR TEMP [C°]				LEAVING AIR TEMP [C°]		MCA	MOCP	V/Hz	
							OUTDOOR AIR		RETURN AIR		SUPPLY AIR		OUTDOOR AIR		RETURN AIR		SUPPLY AIR					
							Db	Wb	Db	Wb	Db	Wb	Db	Wb	Db	Wb	Db	Wb				
ERV-3	RENEWAIRE	HE07-JRTV-D15AA-DGN4-WL1	250	250	250	125	31.4	22.4	23.9	18.8	26.1	20.3	-20.0	-20.0	21.1	14.8	8.9	7.4	3.5	15	208/160	SEE GENERAL NOTES
ERV-4	RENEWAIRE	HE07-JRTV-D15AA-DGN4-WL1	250	250	250	125	31.4	22.4	23.9	18.8	26.1	20.3	-20.0	-20.0	21.1	14.8	8.9	7.4	3.5	15	208/160	SEE GENERAL NOTES
NOTES: 1. UNIT TO BE MOUNTED ON 600MM ROOF CURB PREVIOUSLY INSTALLED. 2. UNIT TO BE PROVIDED WITH INTEGRAL DEFROST MODE.																						

[illegible]

Orientation	Seal
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All dimensions to be checked and verified on the job by the Contractor. Any discrepancies are to be reported to the Consultant prior to action. Only the latest approved drawings to be used for construction in conformance with all applicable codes, by-laws and regulations. All drawings remain the property of the Consultant.

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Project No.: ED-24-069

Enniskillen Public School Renovation

For
Kawartha Pine Ridge District School Board

MECHANICAL CONTROL SEQUENCES & SCHEDULES

Date	Project No	Drawing No
Drawn by I.I.	24018	M-70
Scale AS SHOWN		