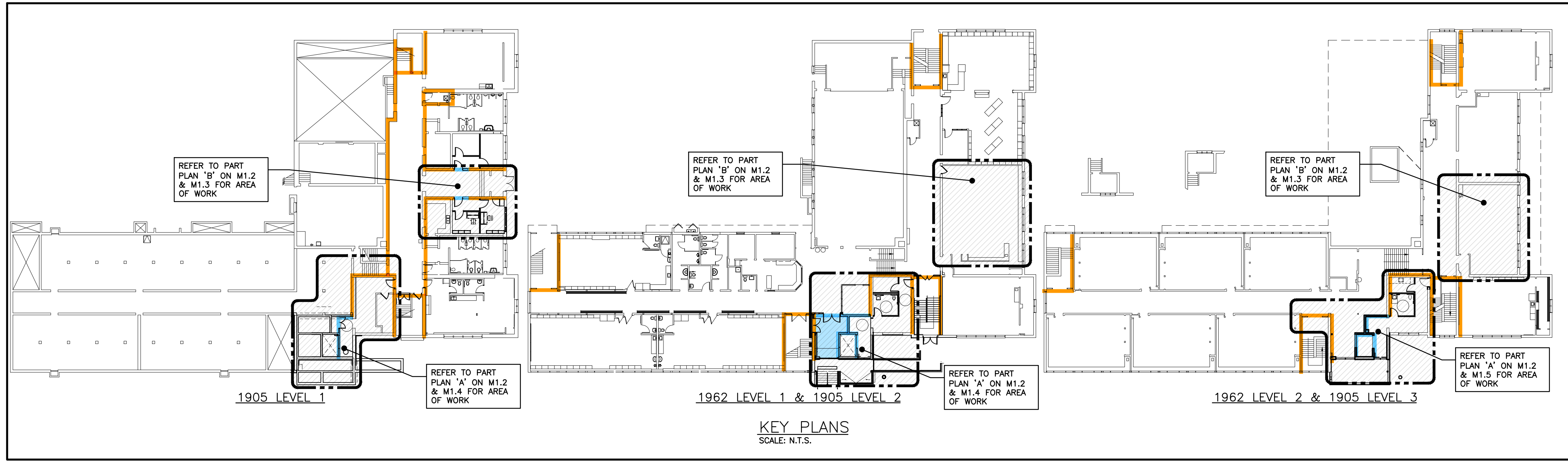


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MECHANICAL LEGEND

Item	Description	Item	Description
— —	CUT EXISTING & CONNECT NEW PIPING	— —	BALL VALVE
— —	FLOW DIRECTION	— —	RISER VALVE
— —	DOMESTIC COLD WATER PIPING	— —	BALANCING VALVE
— —	DOMESTIC HOT WATER PIPING	— —	TEMPERATURE CONTROL VALVE
—EX—SAN—	EXISTING SANITARY PIPING ABOVE FLOOR	— —	RECESSED CABINET MOUNTED FIRE EXTINGUISHER
—EX—SAN—	EXISTING SANITARY PIPING BELOW FLOOR	— —	WALL MOUNTED FIRE EXTINGUISHER
—SAN—	SANITARY PIPING ABOVE FLOOR	— —	WATER METER
—SAN—	SANITARY PIPING BELOW FLOOR	— —	FLOOR CLEANOUT
—EX—ST—	EXISTING STORM PIPING ABOVE FLOOR	— —	LINE CLEANOUT
—EX—ST—	EXISTING STORM PIPING BELOW FLOOR	— —	THERMOSTAT (WITH OR WITHOUT GUARD)
—ST—	STORM PIPING ABOVE FLOOR	— —	MOTORIZED DAMPER (OPPOSED BLADE)
—ST—	STORM PIPING BELOW FLOOR	— —	FIRE DAMPER
—CD—	CONDENSATE PIPING	— —	FLEXIBLE ROUND DUCT
—HWS—	HEATING WATER SUPPLY PIPING	— —	ACOUSTICAL, FLEXIBLE ROUND DUCT
—HWR—	HEATING WATER RETURN PIPING	— —	RIGID ROUND DUCT
—G—	NATURAL GAS PIPING	— —	ALUMINUM DUCT
—RL—	REFRIGERANT LIQUID PIPING	— —	STAINLESS STEEL DUCT
—RS—	REFRIGERANT SUCTION PIPING	— —	DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm)
FD	FLOOR DRAIN	— —	HYDRONIC HEATING SIZE, TYPE & CAPACITY
— —	TRAP PRIMER	— —	EXPANSION COMPENSATOR/JOINT
— —	TEE CONNECTION	— —	PIPE DOWN
— —	PIPE DOWN	— —	PIPE UP
— —	PIPE UP	— —	UNION
— —	UNION	— —	SCREWED OR WELDED PIPE CAP
— —	SCREWED OR WELDED PIPE CAP	— —	

REVISIONS

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NOTES:

The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work. The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work. The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions. Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant. Do not scale the drawing. © 2023 DEI & Associates Inc.

PLUMBING FIXTURE SCHEDULE

Item	Type	Connection Sizes				Fixture	Acceptable Manufacturer	Trim Description	Acceptable Manufacturer	Accessories Description
		HW	CW	TW	Drain					
WC-1	BARRIER FREE WATER CLOSET FLUSH VALVE, 16" HIGH, HANDS FREE	25			80	AMERICAN STANDARD MADERA 3043.001 KOHLER HIGHCREST K-4302 MANSFIELD ADRIATIC 1319 ZURN ECO VANTAGE Z5665-BWL	DELTA 81T201-6-WM5HWA ZURN SLOAN	EXPOSED, POLISHED CHROME PLATED, DIAPHRAGM TYPE FLUSH VALVE WITH SEAT BUMPER, 25mm (1") SCREWDRIVER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE TAIL PIECE, AUTOMATIC 8 HR COURTESY FLUSH, RECESSED WALL MOUNTED SENSOR BOX, FLUSH CONNECTION & COUPLING FOR 40mm (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEONS, HARDWARE OPERATED POWER CONVERTER, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH.	SEAT: BLACK, ELONGATED, OPEN FRONT WITH COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST.	
L-1	BARRIER FREE WALL MOUNTED LAV ELECTRONIC FAUCET	15	15		32	AMERICAN STANDARD MURRO 0954 000 KOHLER ZURN	DELTA 591T0256 MOEN COMMERCIAL SLOAN	HARDWIRED ELECTRONIC FAUCET, CAST BRASS ONE PIECE BODY WITH INTEGRAL WATER PROOF INFRARED SENSOR AND CONNECTOR, ADJUSTABLE SENSING RANGE 76MM TO 381MM (3" TO 15") AND TIME OUT 15 TO 75 SECONDS CHROME FINISH, VANDAL RESISTANT AERATOR HAVING INTEGRAL FLOW CONTROL FOR 1.5GPM (5.7 L/MIN) @ 413 KPA (60 PSI) MAX. UNDER COUNTER PLASTIC SURFACE MOUNTED HOUSING FOR SOLENOID AND CONTROLLER, SENSOR ACTIVATES IN PRESENCE OF PERSON'S HANDS IN LAVATORY, C/W PLUG-IN TRANSFORMER.	INSULATION: INSULATE WASTE AND SUPPLIES WITH UL LISTED PREFORMED INSULATION SYSTEM COMPLETE WITH SEAMLESS JACKET. WASTE FITTING: NPS 32 MM (1 1/4") OFFSET WASTE WITH OPEN GRID STRAINER. PROVIDE FLOOR MOUNTED WALL CARRIER MECHANICAL MIXING VALVE (SET TO 105°F) IN RECESSED CONTROL BOX #591T. PROVIDE ACCESS DOOR ADJACENT TO LAVATORY TO ACCOMMODATE JUNCTION BOX & MIXING VALVE CONTROL BOX INTERFERING WITH SHROUD/COVER SHROUD/KNEE CONTACT GUARD 0059-020	
FD-1	FLOOR DRAIN			NOTED	40	ZURN ZN4158 MIFAB F1100-C CONTOUR C2000-R6 WATTS FD-100-C-A		GENERAL DUTY CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. USE SQUARE STRAINER IN TILED AREAS AND ROUND STRAINER ELSEWHERE. C/W TRAP PRIMER		
FD-2	ELEVATOR PIT DRAIN			NOTED	40	ZURN Z-629 WATTS DRAINAGE MIFAB CONTOUR C2900NB		GENERAL DUTY VERTICAL WALL DRAIN, CAST IRON BODY, CLAMPING COLLAR, NICKEL-BRONZE STRAINER. C/W INTEGRAL BACKWATER VALVE		
RD-1	ROOF DRAIN (FLOW CONTROL)			NOTED		ZURN ZACF121-CR MIFAB R1200-FBU CONTOUR C1000DMPX WATTS RD-100-ABDK SMITH 1019-C-CR-AD		CONTROLLED FLOW; CAST IRON BODY, UNDER DECK CLAMP AND SUMP RECEIVER TO SUIT ROOF CONSTRUCTION, FLASHING CLAMP RING WITH INTEGRAL GRAVEL STOP, BEARING PAN, FLOW CONTROL WEIR ASSEMBLY, ALUMINUM DOME.		

GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
- UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:
 - POTABLE WATER TEST (SEE SPEC 22.11.16 PART 3)

GRILLE SCHEDULE

Item	Type	Manufacturer & Model	Finish	Remarks
R1	SIDEWALL RETURN	KRUEGER S85	BRITISH WHITE	C/W SCREWED FASTENING

SPLIT AIR CONDITIONING UNIT SCHEDULE

Item	Service	Capacity (Tons)	Refrig. Size	Unit Weight lbs	MCA	MOCF	Voltage	Manufacturer & Model	Remarks
AC-21	1905 L3 VESTIBULE 2	1.0	R410A	40±	0.25	15	208/1/60	LG LCN128HV4	INTERLOCK TO CU-21. PROVIDE POWER FROM CU-21, C/W PT-UMCI GRILLE, PTDCQ COVER, & PTVK410+420 VENTILATION KIT
AC-22	OFFICE N14	0.75	R410A	40±	0.25	15	208/1/60	LG ARNU093TA44	INTERLOCK TO CU-22. PROVIDE POWER FROM CU-22, C/W PT-UMCI GRILLE, PTDCQ COVER, & PTVK410+420 VENTILATION KIT
AC-23	1905 L2 VESTIBULE 2	1.0	R410A	40±	0.25	15	208/1/60	LG LCN128HV4	INTERLOCK TO CU-23. PROVIDE POWER FROM CU-23, C/W PT-UMCI GRILLE, PTDCQ COVER, & PTVK410+420 VENTILATION KIT
AC-24	OFFICE N15	0.75	R410A	40±	0.25	15	208/1/60	LG ARNU093TA44	INTERLOCK TO CU-22. PROVIDE POWER FROM CU-22, C/W PT-UMCI GRILLE, PTDCQ COVER, & PTVK410+420 VENTILATION KIT

1. ACCEPTABLE MANUFACTURERS: DAIKIN/CARRIER/LG/LENNOX/MITSUBISHI

FAN SCHEDULE

Item	Type	Service	Capacity cfm	Exhaust Air Size in. sp	Date SP in. wc	Voltage	Manufacturer	Model	Remarks
EF-7	CEILING MOUNTED EXHAUST	ELEVATOR MACHINE ROOM	400	1/3	0.25	120/1/60	PENN BARRY	Z10H	C/W VIBRATION ISOLATION HANGERS, SPEED CONTROLLER, ALUMINUM GRILLE. REVERSE-ACTING THERMOSTAT BY ELECTRICAL CONTRACTOR FOR NUMBER & LOCATION OF FANS REFER TO PLAN
EF-8	CEILING MOUNTED EXHAUST	LOCAL EXHAUST	100	Fhp	0.125	120/1/60	PENN BARRY	Z5H	C/W VIBRATION ISOLATION HANGERS, SPEED CONTROLLER, ALUMINUM GRILLE. FOR NUMBER & LOCATION OF FANS REFER TO PLAN

1. ACCEPTABLE MANUFACTURERS: BROAN-NUTONE/PANASONIC

AIR COOLED CONDENSING UNIT SCHEDULE

Item	Type	Service	Tons	Capacity MBH	Compressor			No. of Cond. Fans	Electrical			Unit Weight lbs	Manufacturer	Model	Remarks		
					Type	No. Stages	Refrig. Temp °F		Voltage	MCA	MOCF						
CU-21	OUTDOOR ROOF MOUNTED	1905 L3 VESTIBULE 2	1.0	12.0	SCROLL	1	1	R410A	52	1	208/1/60	19.0	30	170±	LG	LMU120HHV	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO AC-21
CU-22	OUTDOOR ROOF MOUNTED	OFFICE N14 & OFFICE N15	2.0	24.0	SCROLL	1	1	R410A	52	1	208/1/60	19.6	30	250±	LG	ARUN024GSS4	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO AC-22 & AC-24
CU-23	OUTDOOR ROOF MOUNTED	1905 L2 VESTIBULE 2	1.0	12.0	SCROLL	1	1	R410A	52	1	208/1/60	19.0	30	170±	LG	LMU120HHV	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO AC-23

1. ACCEPTABLE MANUFACTURERS: DAIKIN/CARRIER/MITSUBISHI/LG/LENNOX/TRANE

HEATING COMPONENT SCHEDULE

Item	Type	Size	Capacity MBH	EWT °F	LWT °F	EAT °F	Manufacturer & Model	Remarks
H-1	RADIATION	AS NOTED	AS NOTED	150	130	70	ENG AIR WF-1A	2 ROW, 18" HIGH CABINET BOTTOM MOUNTED AT 8" AFF
H-2	RADIATION FREE STANDING	AS NOTED	AS NOTED	150	130	70	ENG AIR WF-2A-FS	2 ROW, 16" HIGH CABINET, TOP AT 20" AFF
H-3	RADIATION (MOUNTED HIGH)	AS NOTED	AS NOTED	150	130	70	ENG AIR WF-1B	1 ROW, 14" HIGH CABINET, SLOPED TOP & BOTTOM FOR MOUNTING HIGH ON WALL
H-4	CABINET UNIT HEATER	AS NOTED	AS NOTED	150	130	70	ENG AIR CUH-SERIES	SEMI-RECESSED WALL MOUNTED, DOWNFLOW ARRANGEMENT 20, 120/1/60, Fhp, C/W REMOTE THERMOSTAT
H-5	RADIATION CABINET ONLY (CASH ALLOWANCE)	N/A	N/A	N/A	N/A	N/A	N/A	CABINET ONLY. CONTRACTOR TO VISIT SITE TO CONFIRM SIZE AND STYLE PRIOR TO SHOP DRAWING SUBMITTAL. (CASH ALLOWANCE)

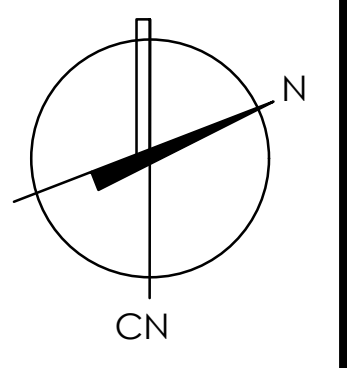
1. ACCEPTABLE MANUFACTURERS: TYPE H-1, H-2, H-3 - ENGINEERED AIR/SLANT FIN/SIGMA/DUNHAM-BUSH/ROSEMEX/RITTLING.
TYPE H-4 - ENGINEERED AIR/SLANT FIN/SIGMA/DUNHAM-BUSH
2. CABINET FINISHES ARE TO BE FACTORY FINISH PAINTED SELECTED FROM STANDARD MANUFACTURER'S COLOURS UNLESS OTHERWISE NOTED.



CLIENT
WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTARIO, N2C 2R5

PROJECT:
22059
KING EDWARD PS ELEVATOR ADDITION
709 KING STREET WEST, KITCHENER, ON N2G 1E3

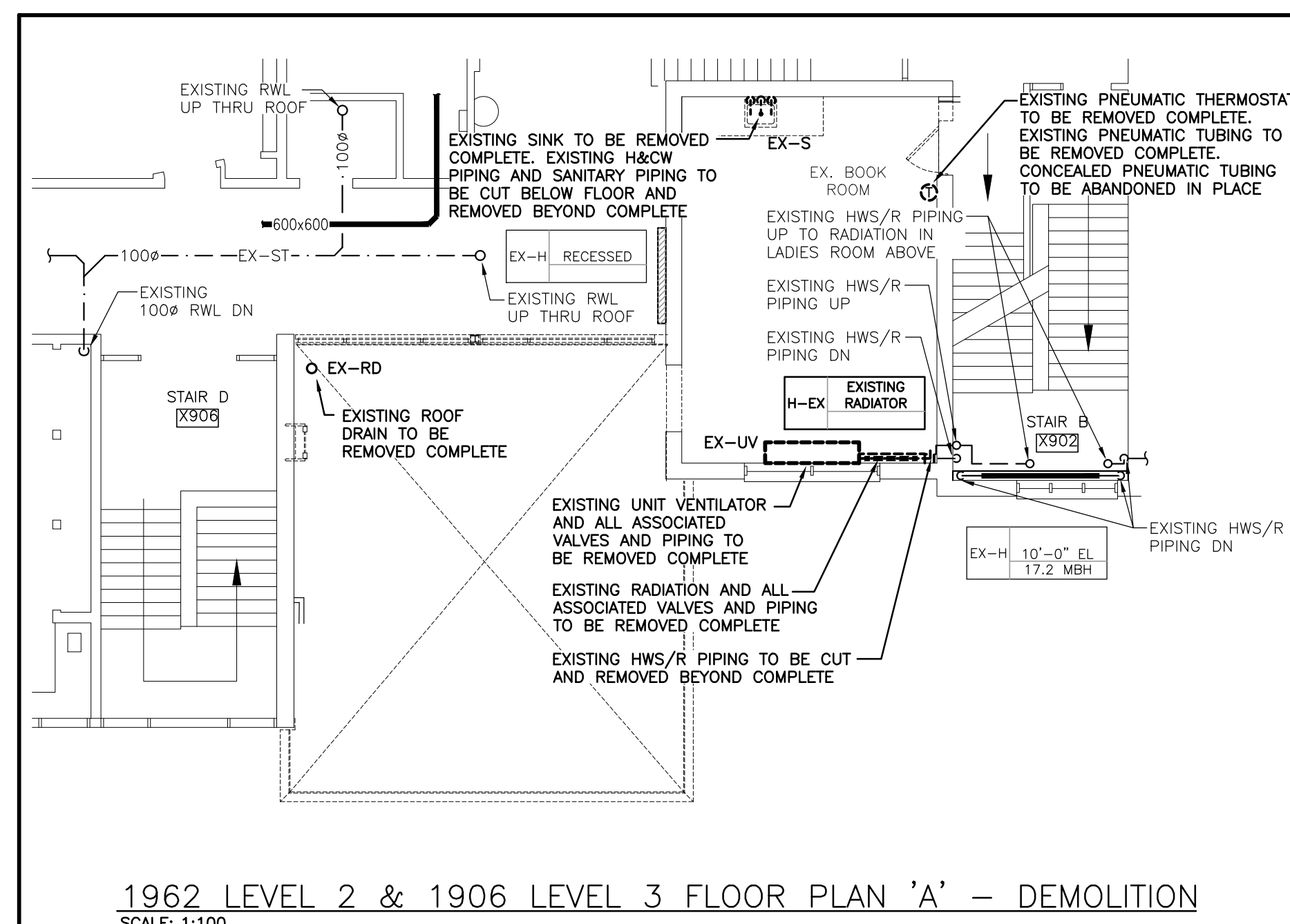
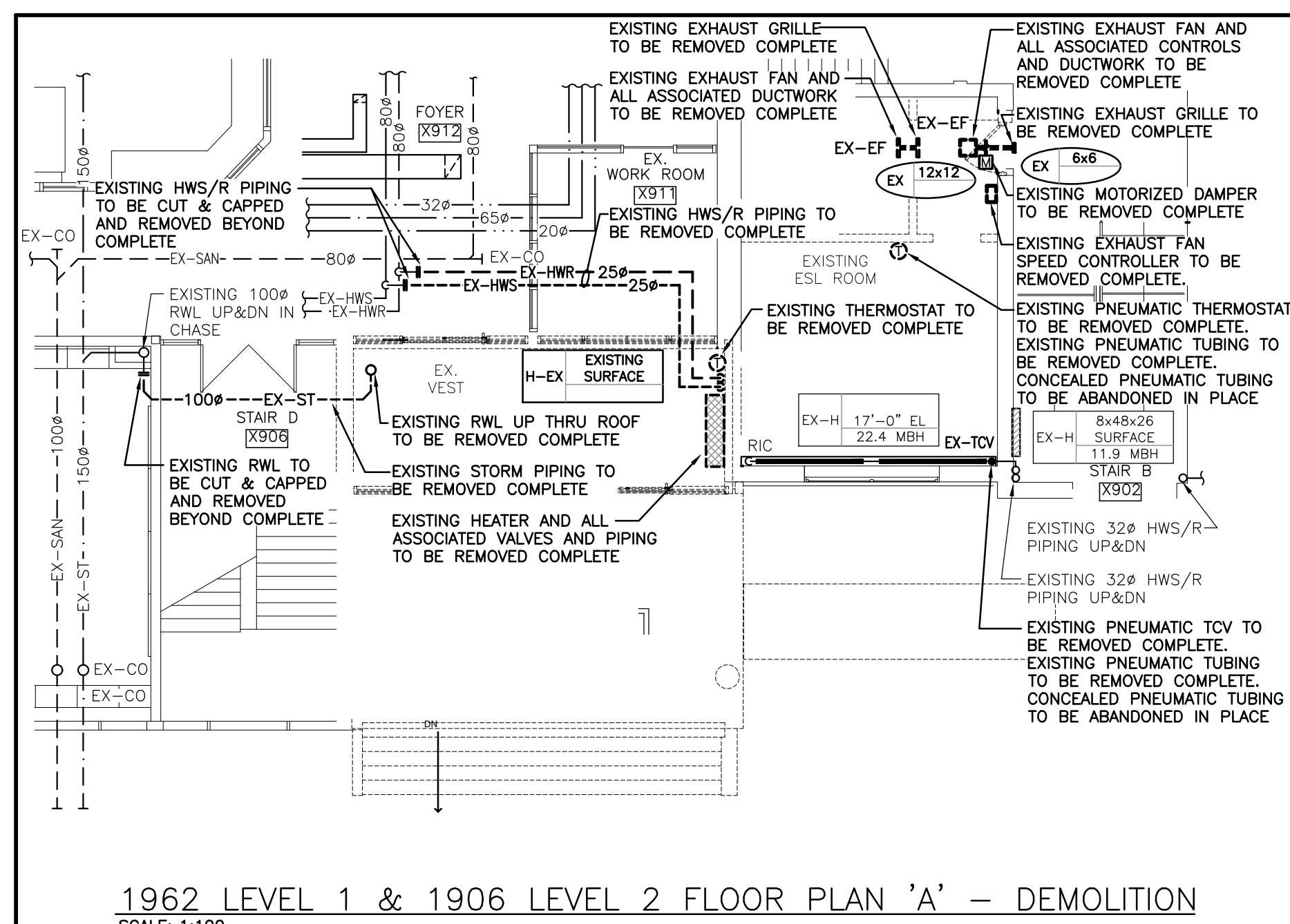
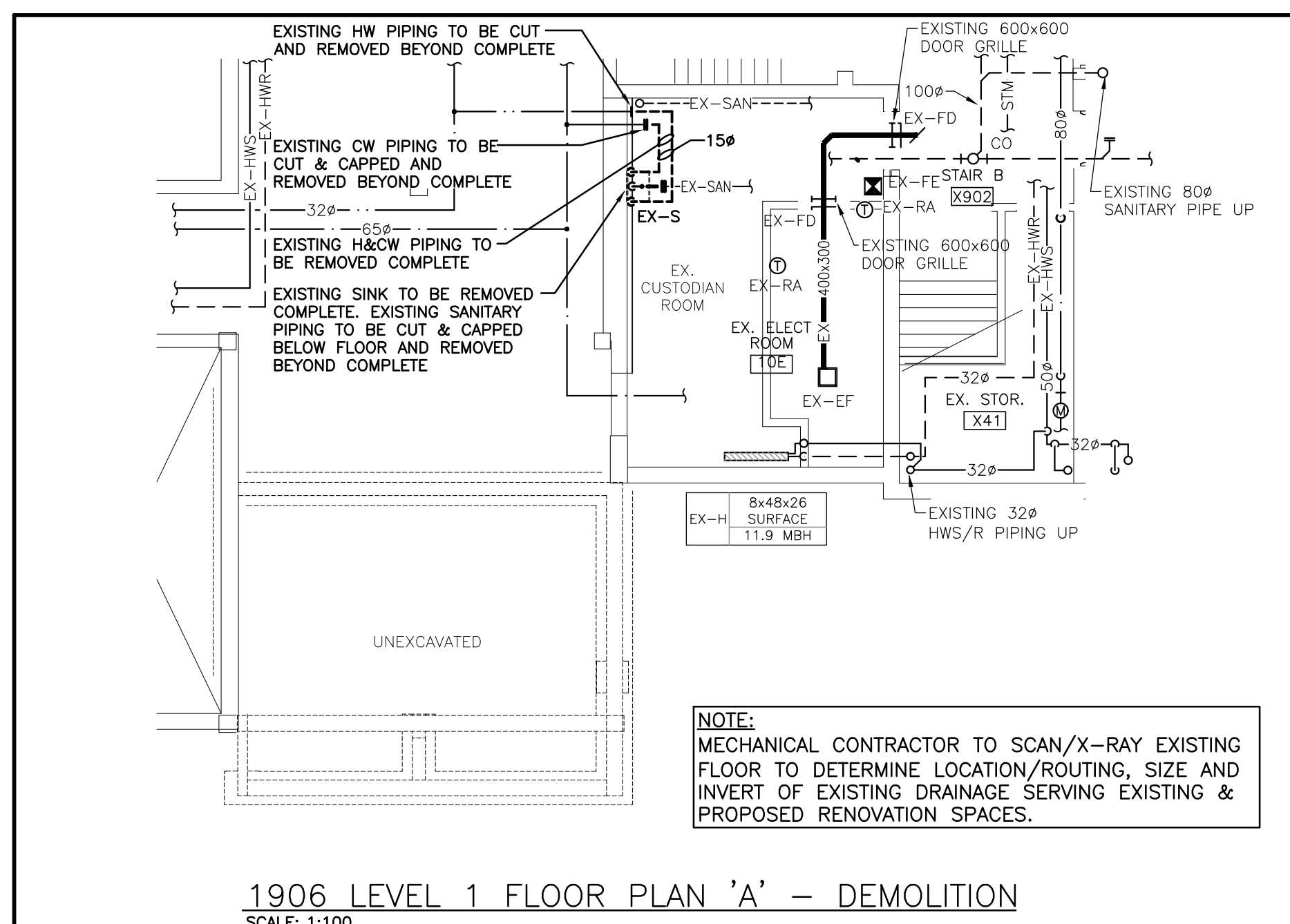
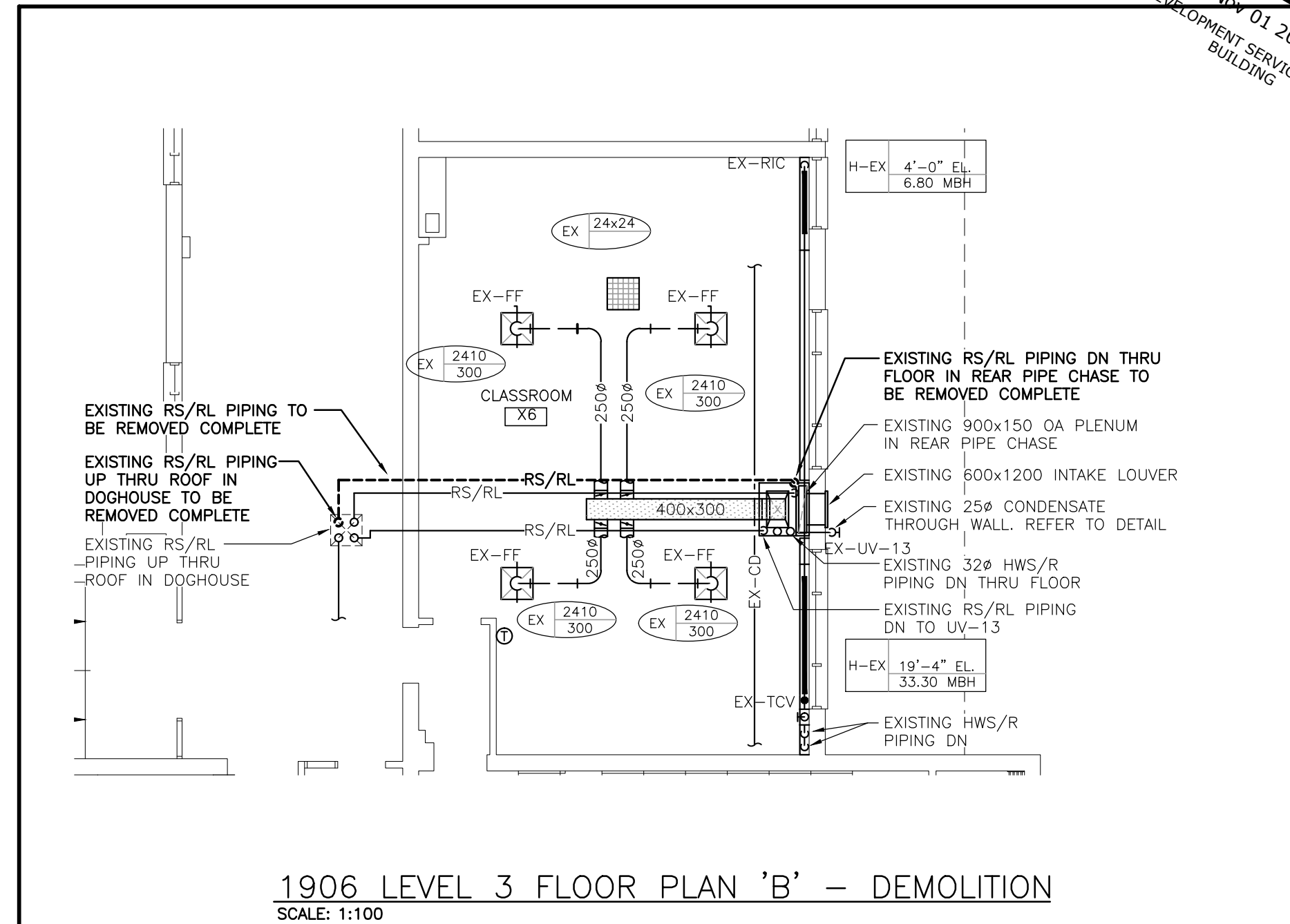
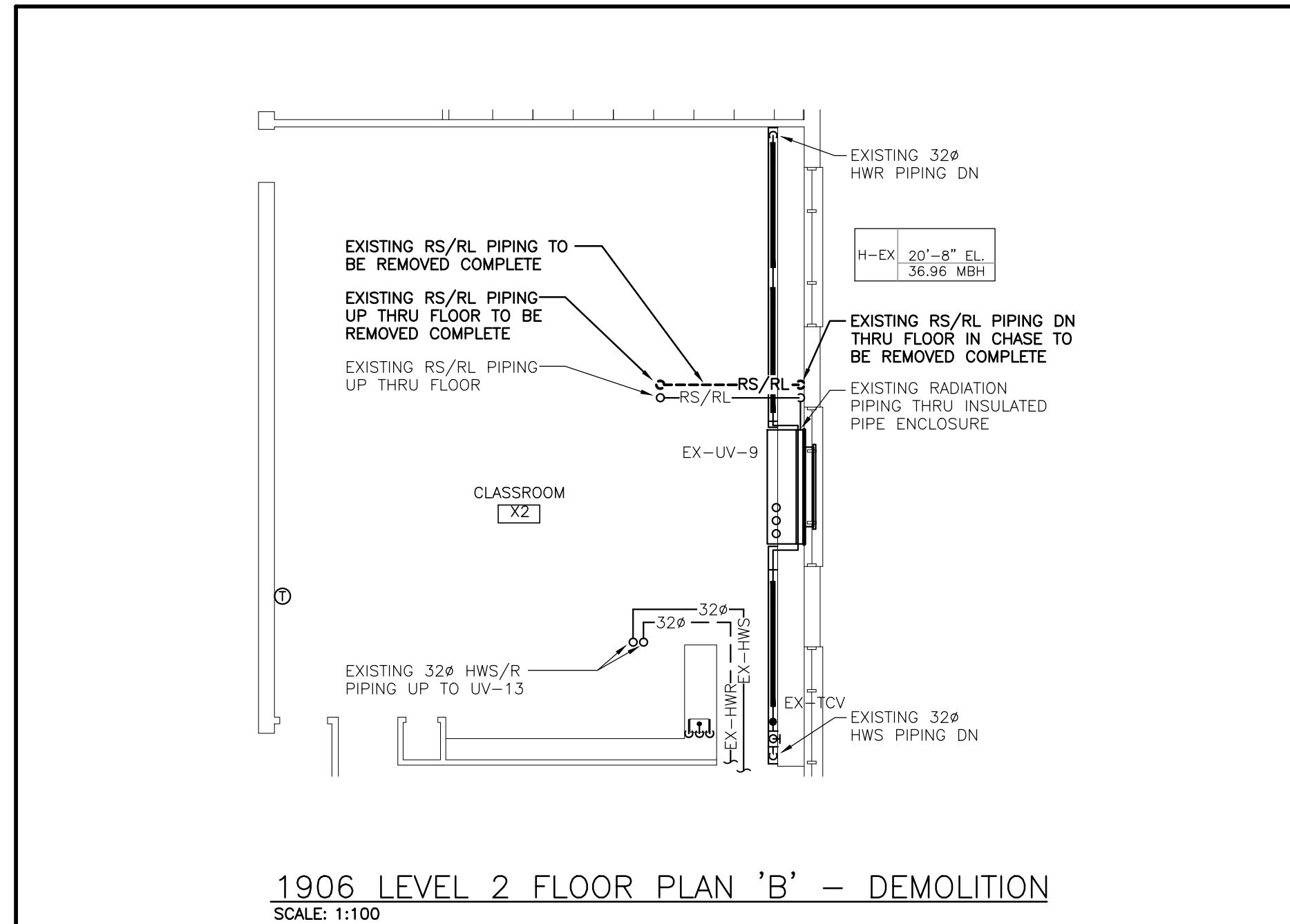
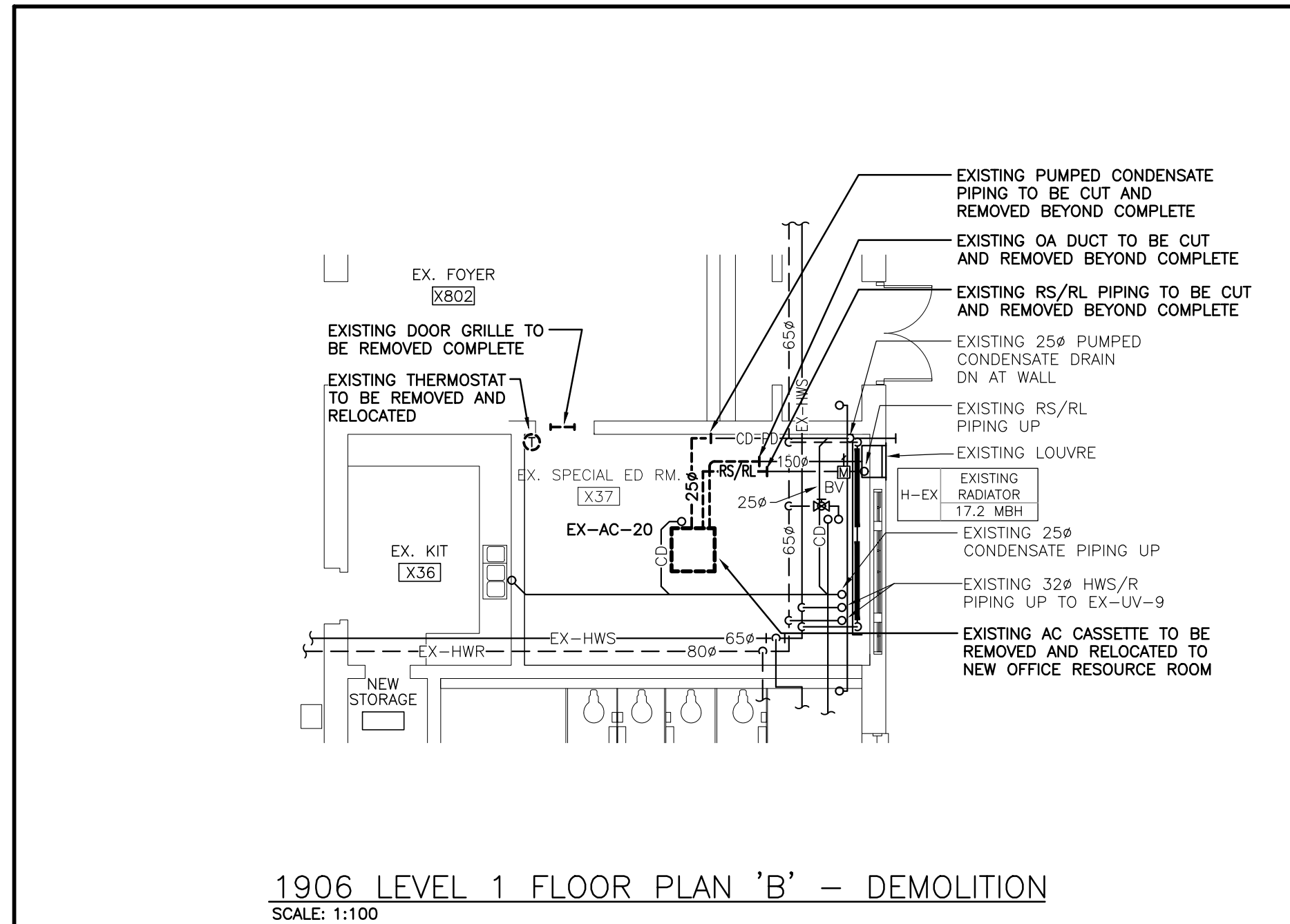
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LEGEND, SCHEDULES, AND KEY PLANS

All dimensions and placements must be checked and verified by the General Contractor.

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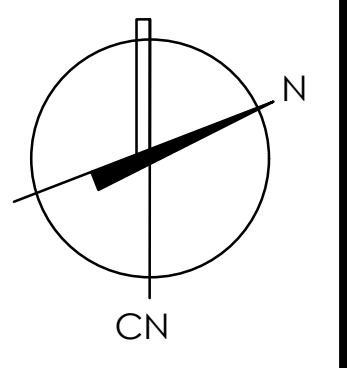
55 Northland Road,
Waterloo, ON, N2L 1B8
Phone: 519-739-9355
Website: deiassociates.ca
Project Number: 22064

CLIENT
WATERLOO REGION DISTRICT
SCHOOL BOARD, 51 ARDELT
AVENUE, KITCHENER, ONTARIO,
N2C 2R5

PROJECT:
22059
KING EDWARD PS ELEVATOR
ADDITION
709 KING STREET WEST,
KITCHENER, ON
N2G 1E3

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- GENERAL DEMOLITION NOTES**
- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
 - EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
 - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
 - ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
 - PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
 - REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
 - MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
 - INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
 - THIS CONTRACTOR IS TO REMOVE & REPLACE CEILINGS AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

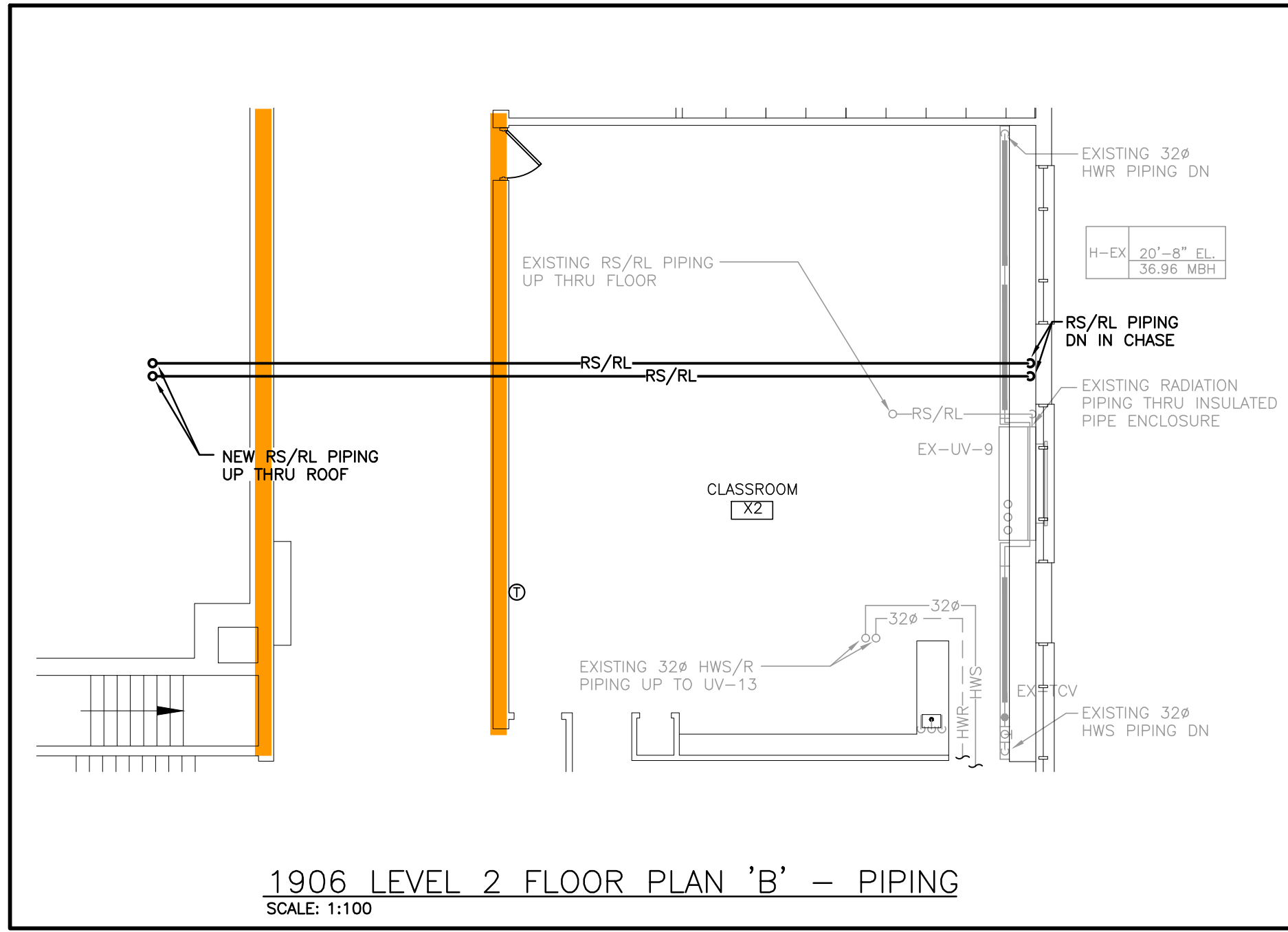
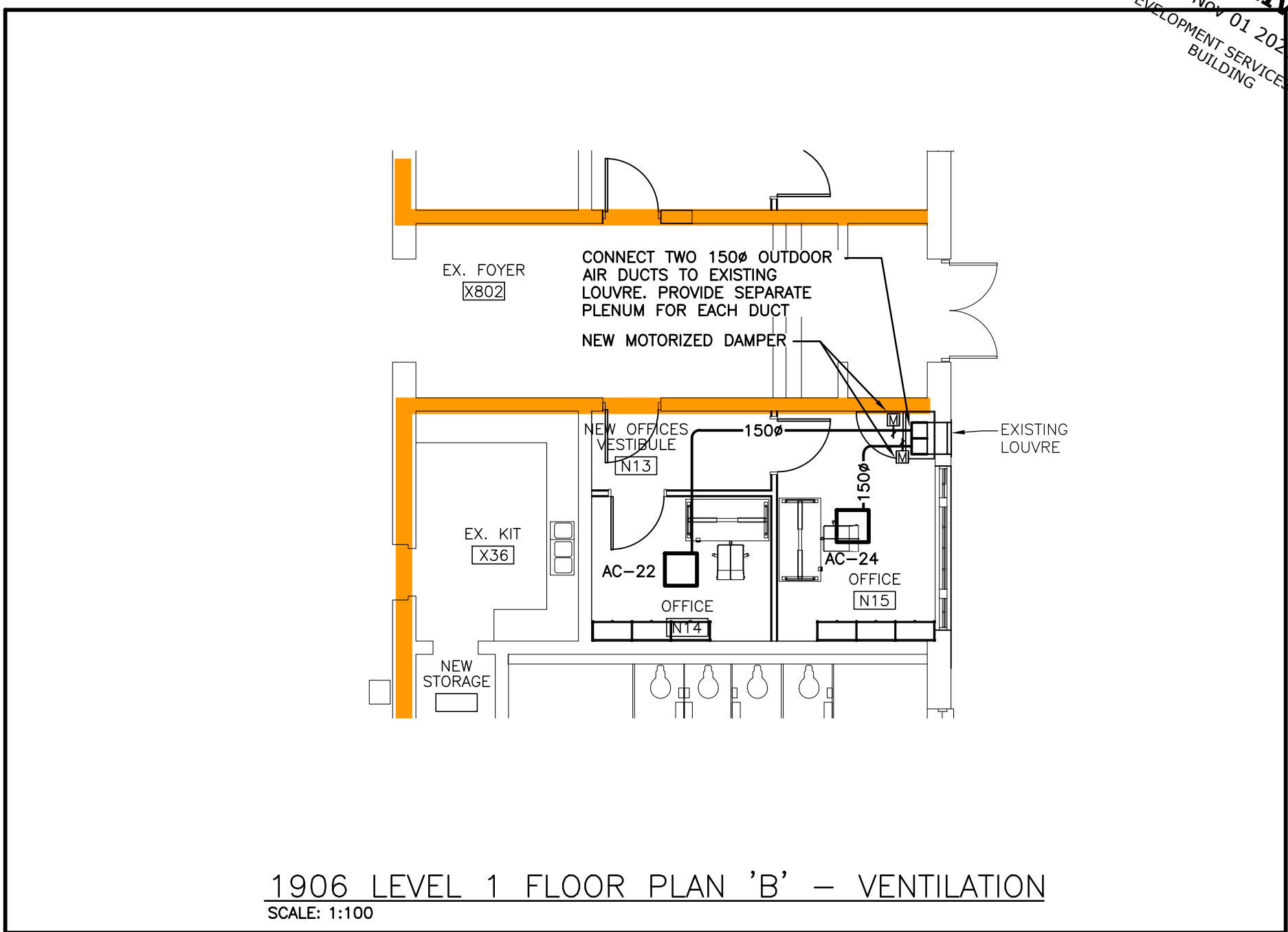
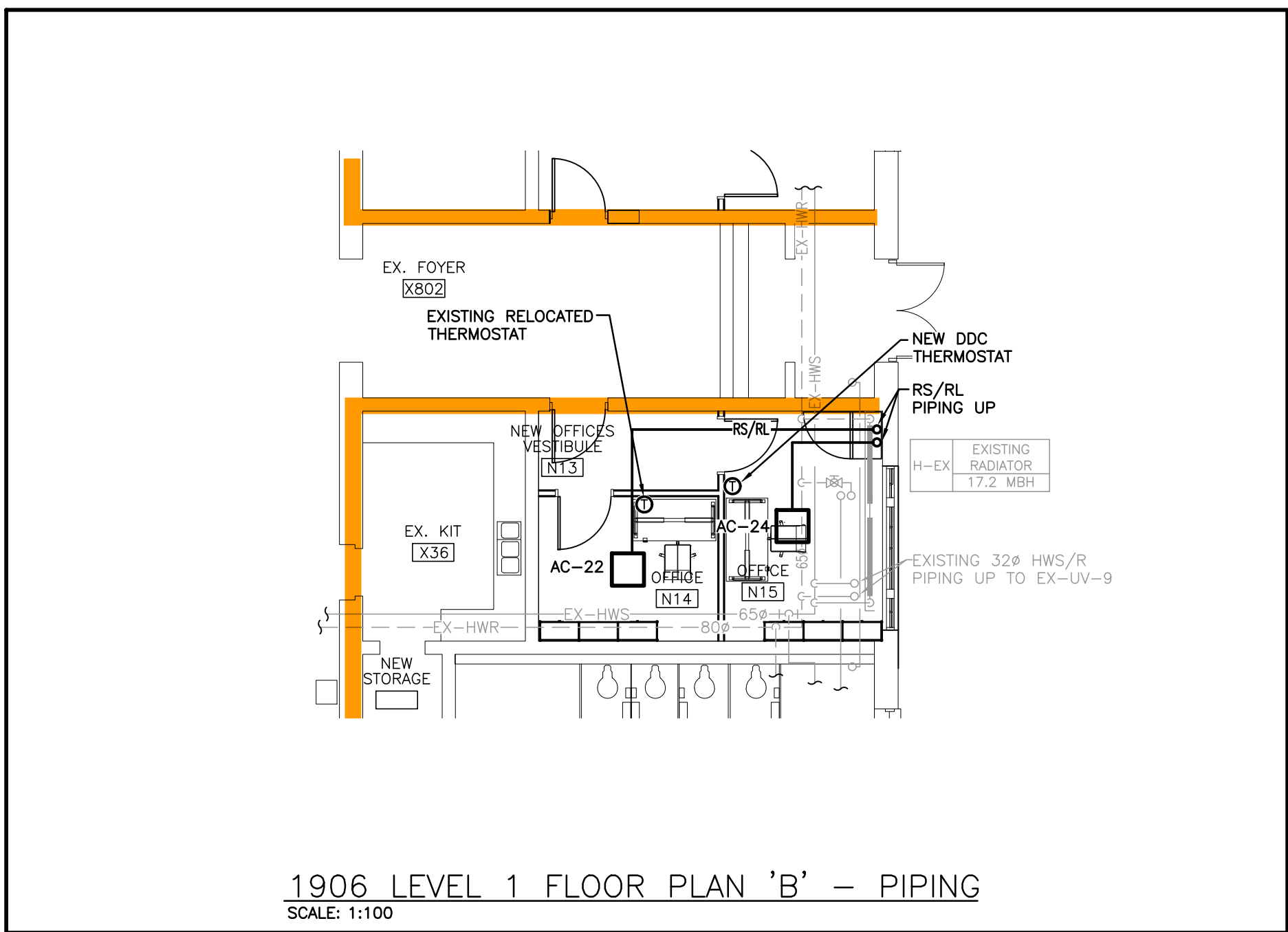
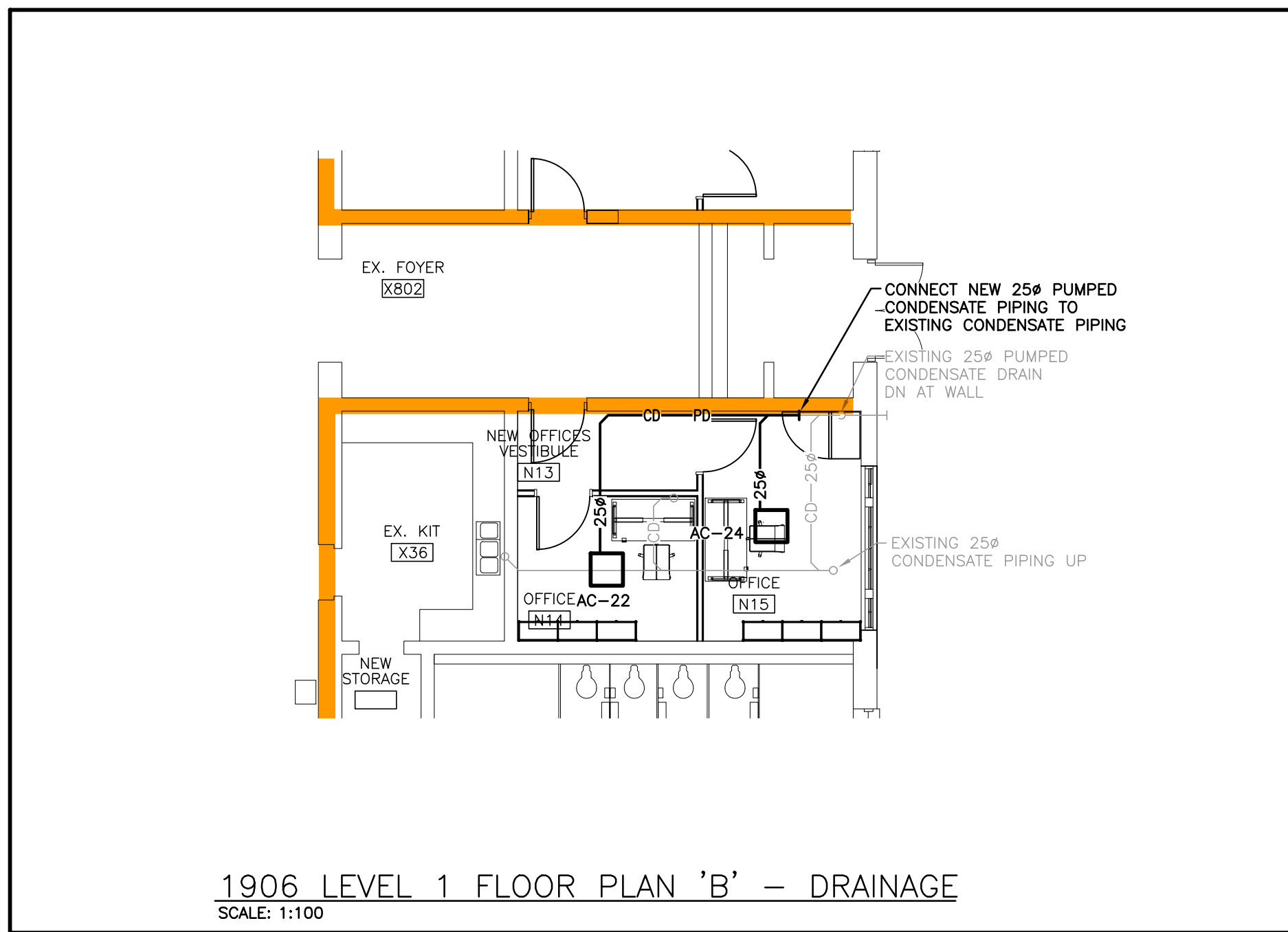


M1.2

All dimensions and elevations must be checked and verified by the General Contractor.

PARTIAL DEMOLITION PLANS

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BUILDING



GENERAL RENOVATION NOTES

- CLEAN AND VACUUM EXISTING DUCTWORK ADJACENT TO NEW CONNECTIONS ± 10'-0" IN EACH DIRECTION.
- CO-ORDINATE ANY OWSJ BRIDGING RELOCATION OR REMOVAL/REPLACEMENT WITH THE GENERAL CONTRACTOR. PAY ALL COSTS REQUIRED TO MODIFY BRIDGING FOR INSTALLATION OF DUCTWORK.
- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3700mm (12'-0") FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.

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REVISIONS

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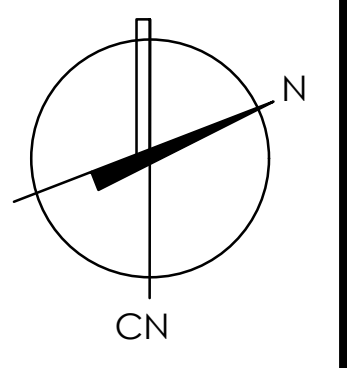
CLIENT

WATERLOO REGION DISTRICT
SCHOOL BOARD, 51 ARDELT
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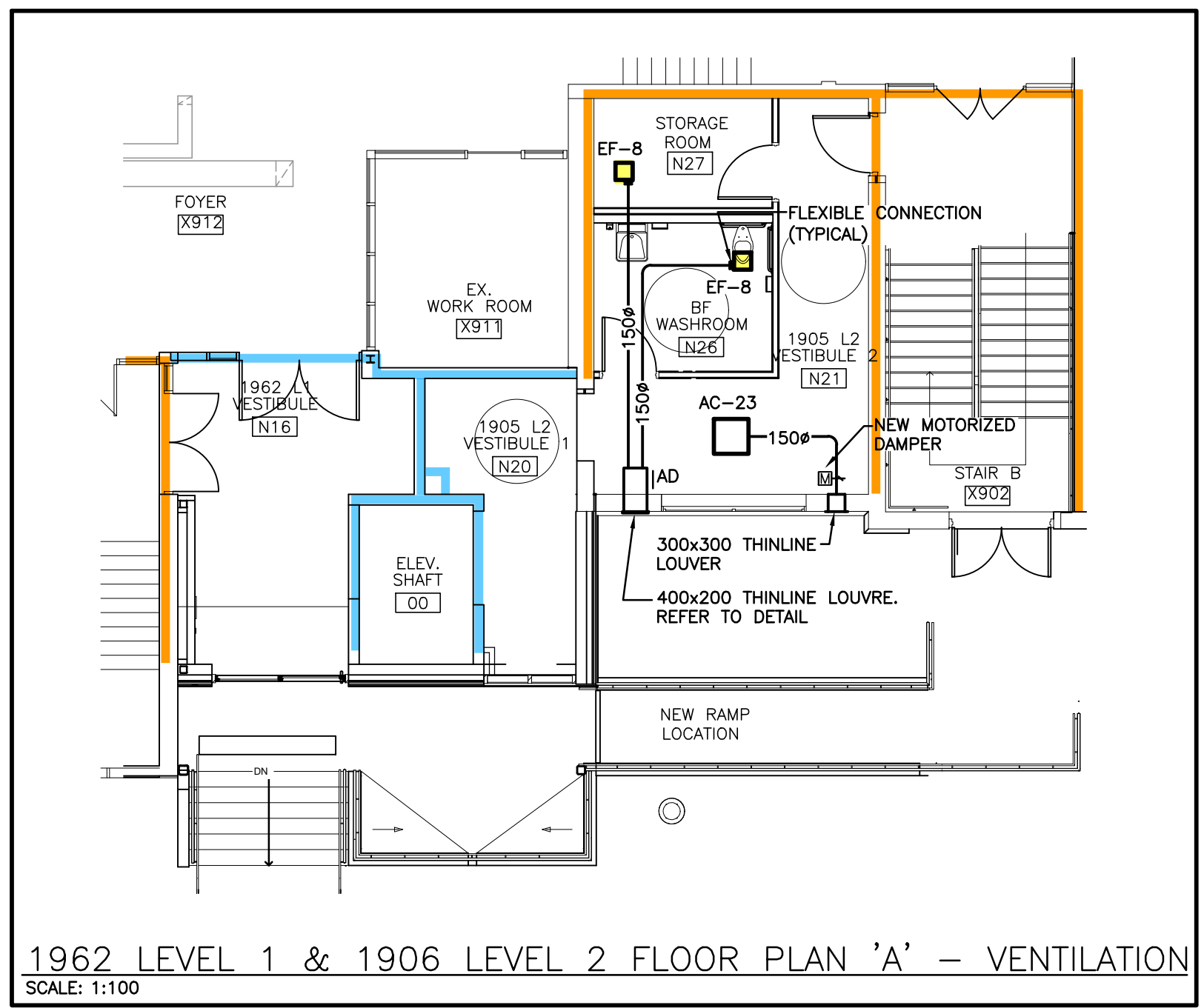
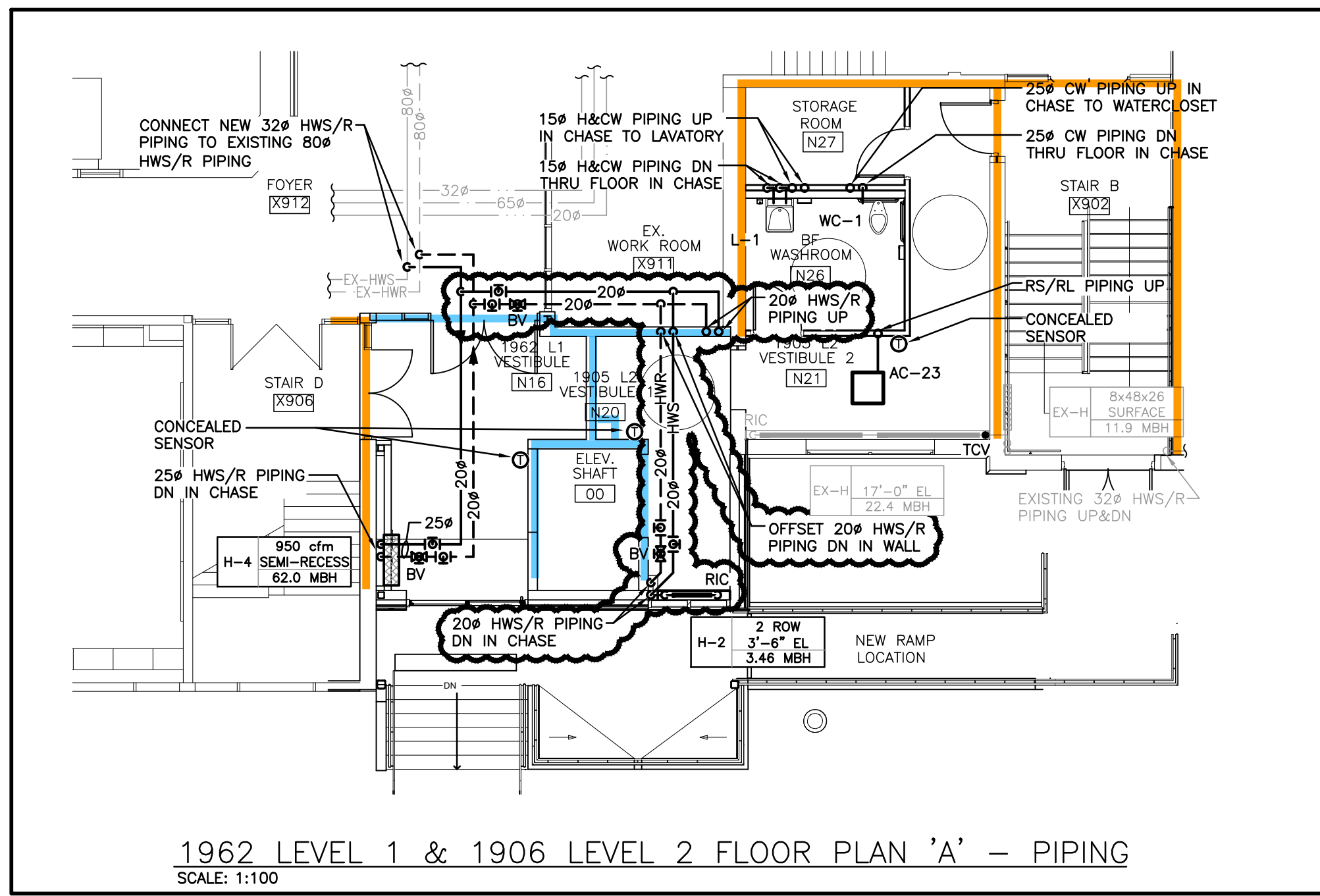
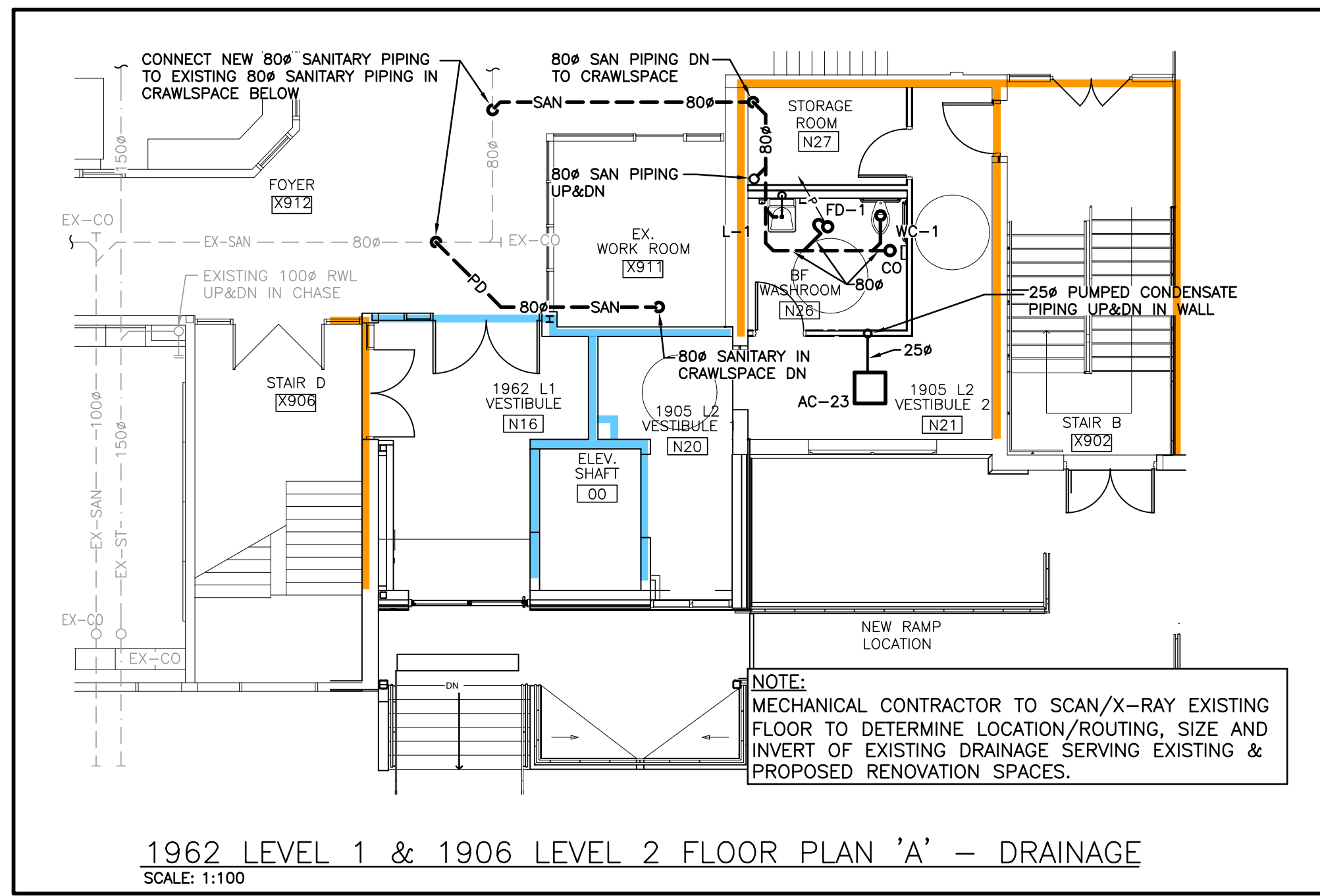
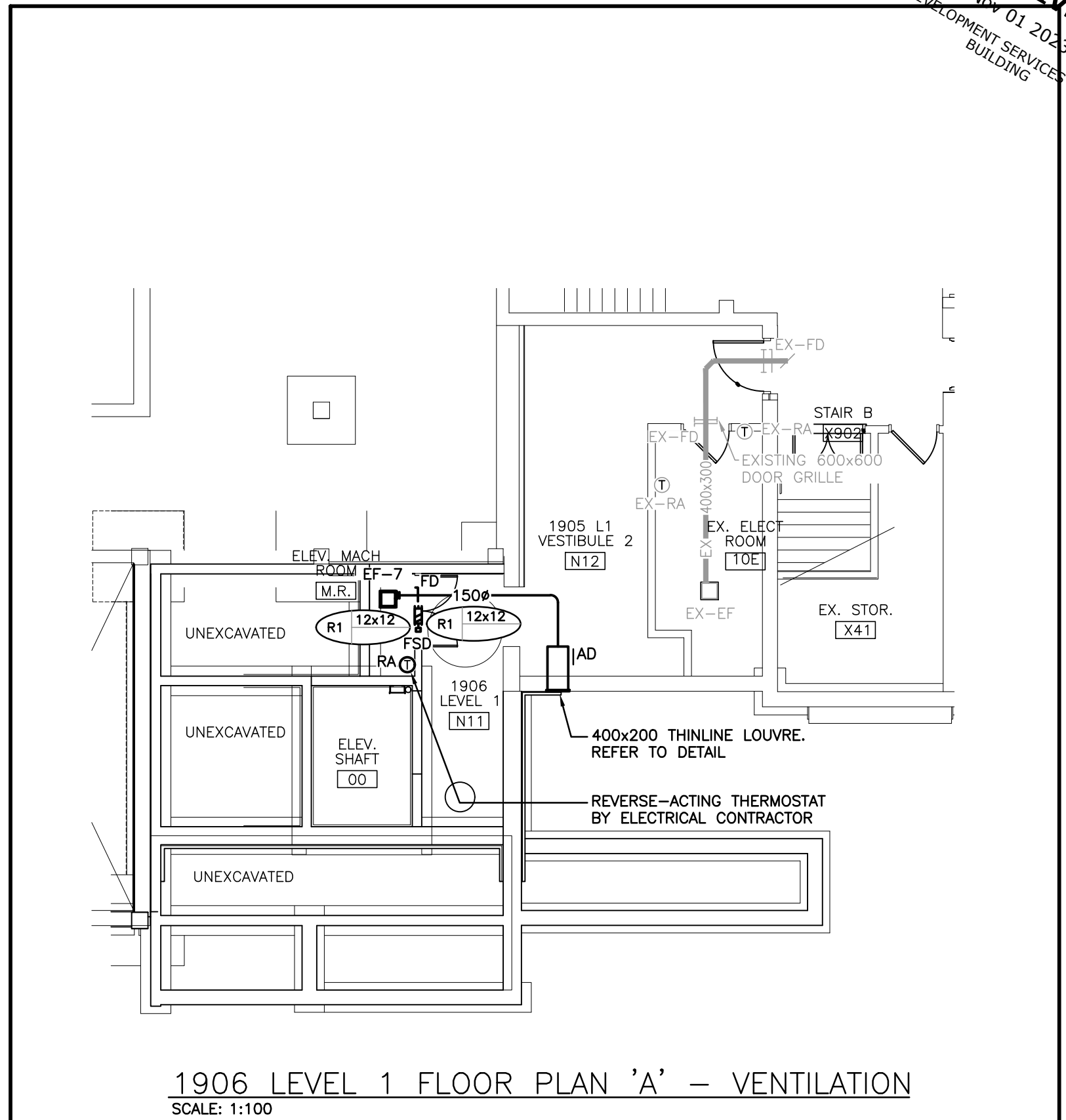
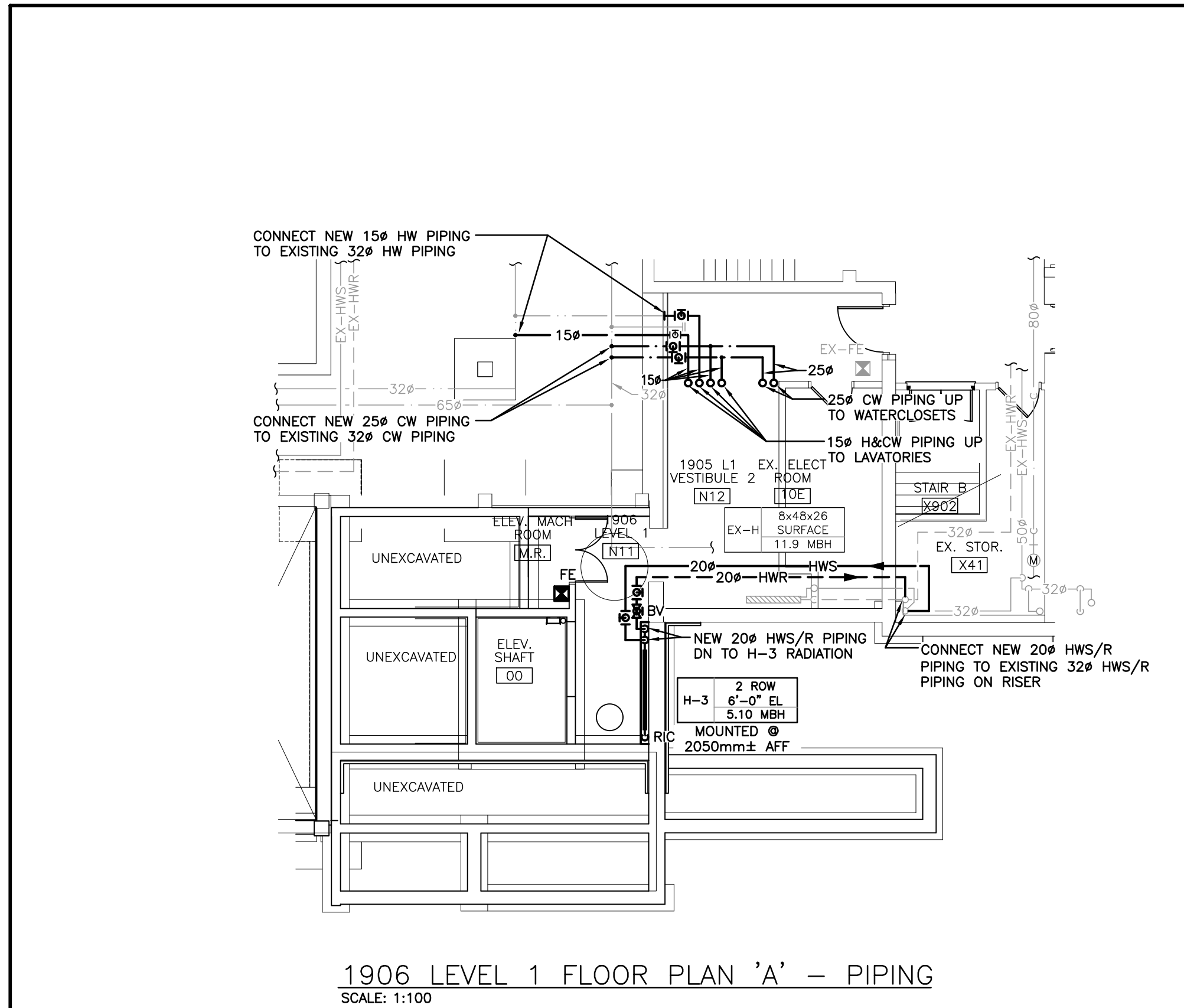
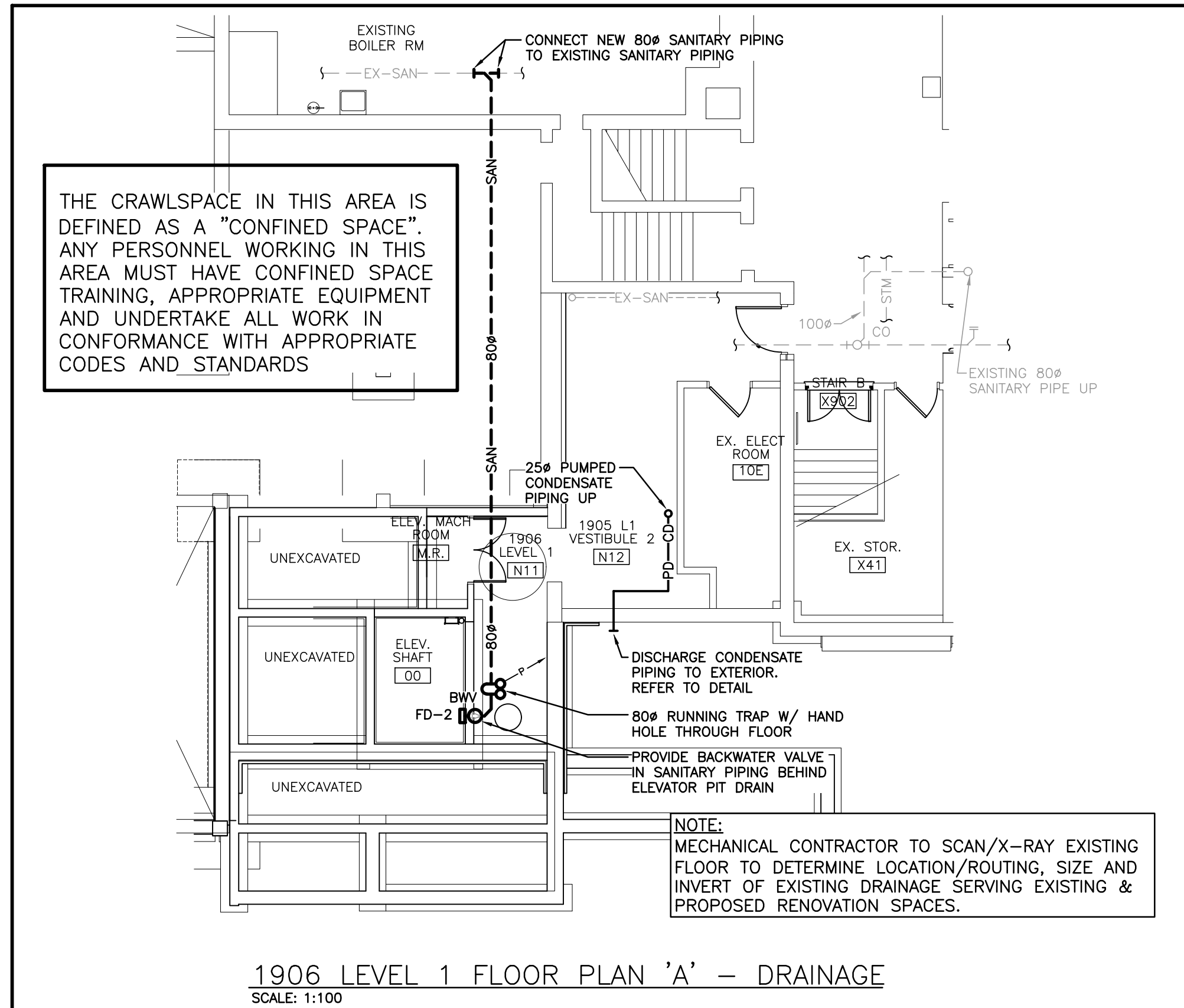
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All dimensions and notes on these plans must be checked and verified by the General Contractor. Based on drawings and field measurements whole or in part is forbidden without written permission of the Vanlin Group.

PARTIAL RENOVATION PLANS



FIRESTOPPING REQUIRED FOR ANY NEW SERVICE PENETRATIONS THROUGH FIRE SEPARATIONS.

REVIEW FIRESTOPPING REQUIREMENTS WITH BUILDING INSPECTOR ON SITE.

PLASTIC PIPE PERMITTED PROVIDED FSR NOT MORE THAN 25, PROPERLY FIRESTOPPED AND NOT WITHIN A CEILING RETURN AIR PLENUM.

PREMISE ISOLATION AS REQUIRED AS PER BYLAW 2013-115. SEE ATTACHED LETTER. CONFIRM WITH BUILDING INSPECTOR ON SITE.

GENERAL RENOVATION NOTES

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- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.



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9	11/01/2023	RE-ISSUED FOR BUILDING PERMIT

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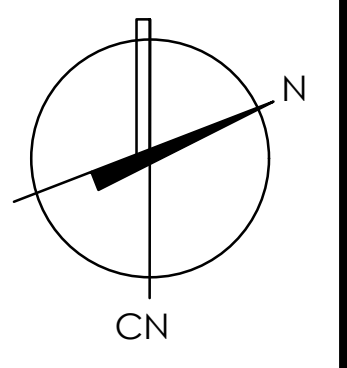
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55 Northland Road,
Waterloo, ON, N2V 1Y8
Phone: 519-739-3355
Website: deiassociates.ca
Project Number: 22064

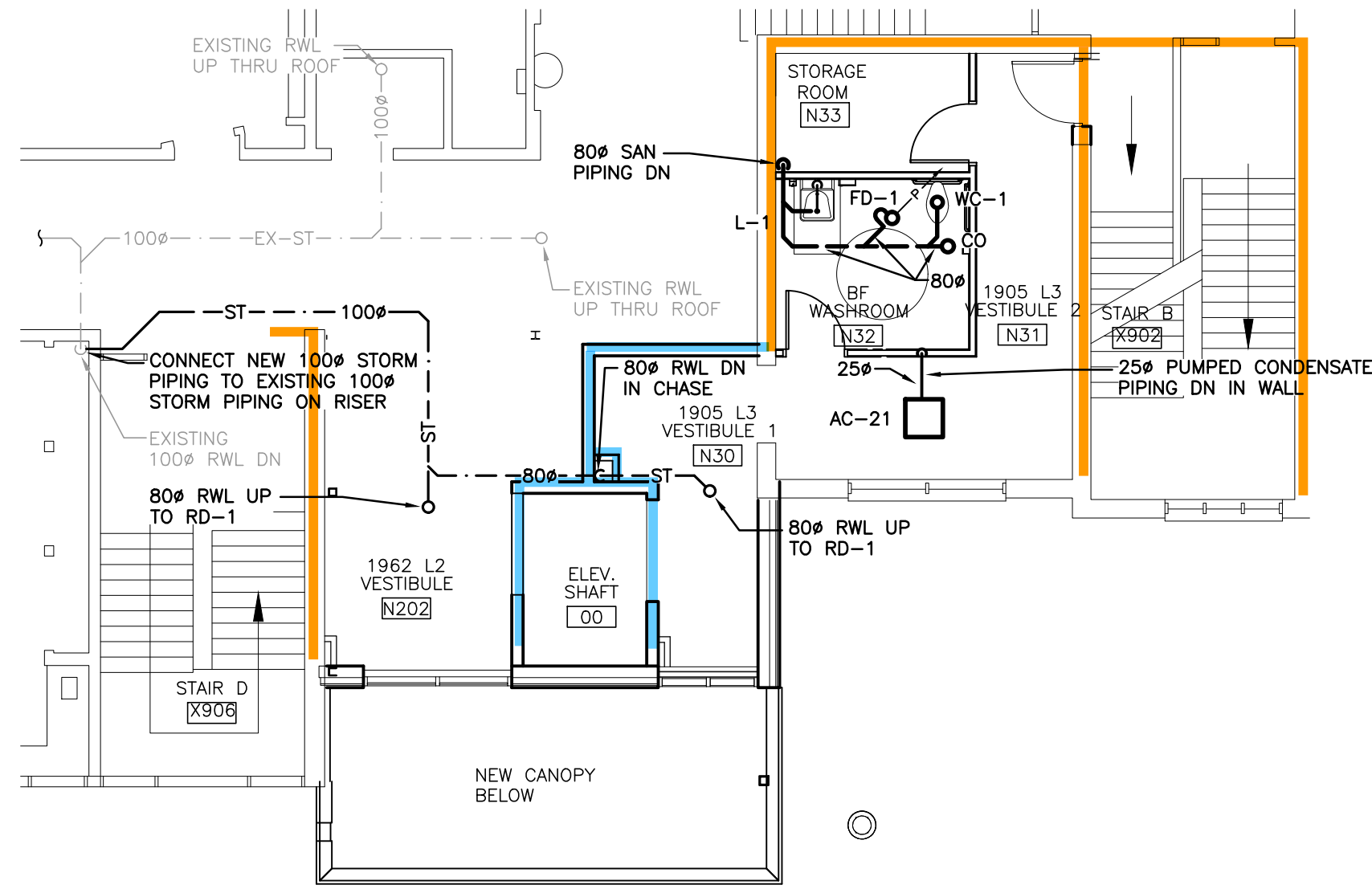
CLIENT
WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTARIO, N2C 2R5

PROJECT:
22059
KING EDWARD PS ELEVATOR ADDITION
709 KING STREET WEST, KITCHENER, ON N2G 1E3

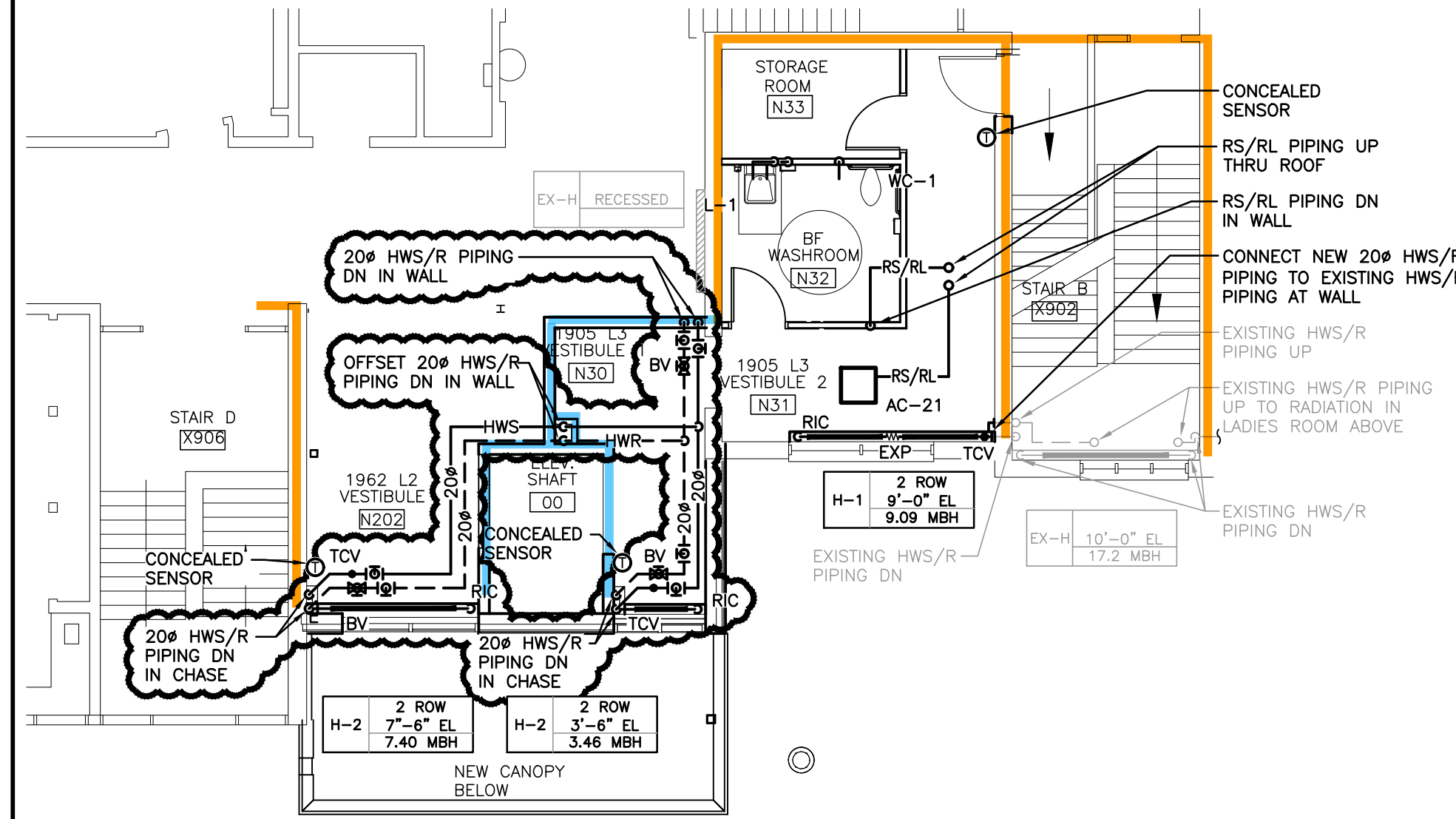
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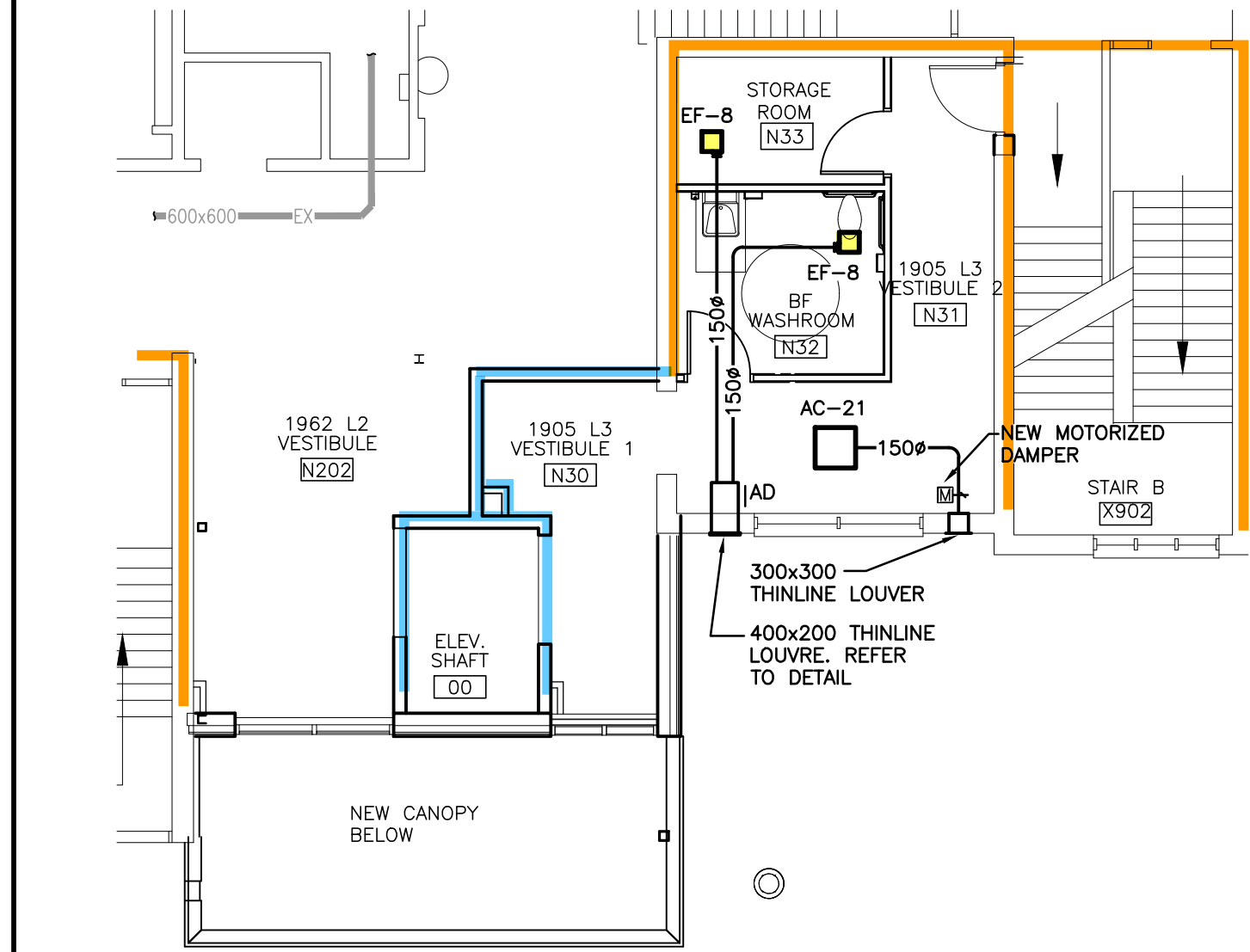
PARTIAL RENOVATION PLANS



1962 LEVEL 2 & 1906 LEVEL 3 FLOOR PLAN 'A' - DRAINAGE
SCALE: 1:100



1962 LEVEL 2 & 1906 LEVEL 3 FLOOR PLAN 'A' - PIPING
SCALE: 1:100



1962 LEVEL 2 & 1906 LEVEL 3 FLOOR PLAN 'A' - VENTILATION
SCALE: 1:100

GENERAL RENOVATION NOTES

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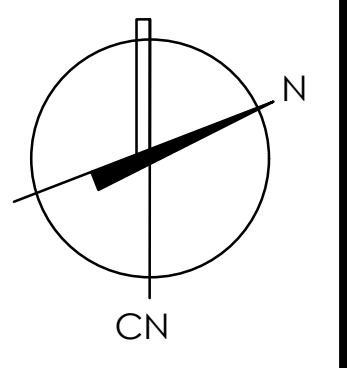
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PROJECT:
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KING EDWARD PS ELEVATOR ADDITION
709 KING STREET WEST, KITCHENER, ON N2G 1E3

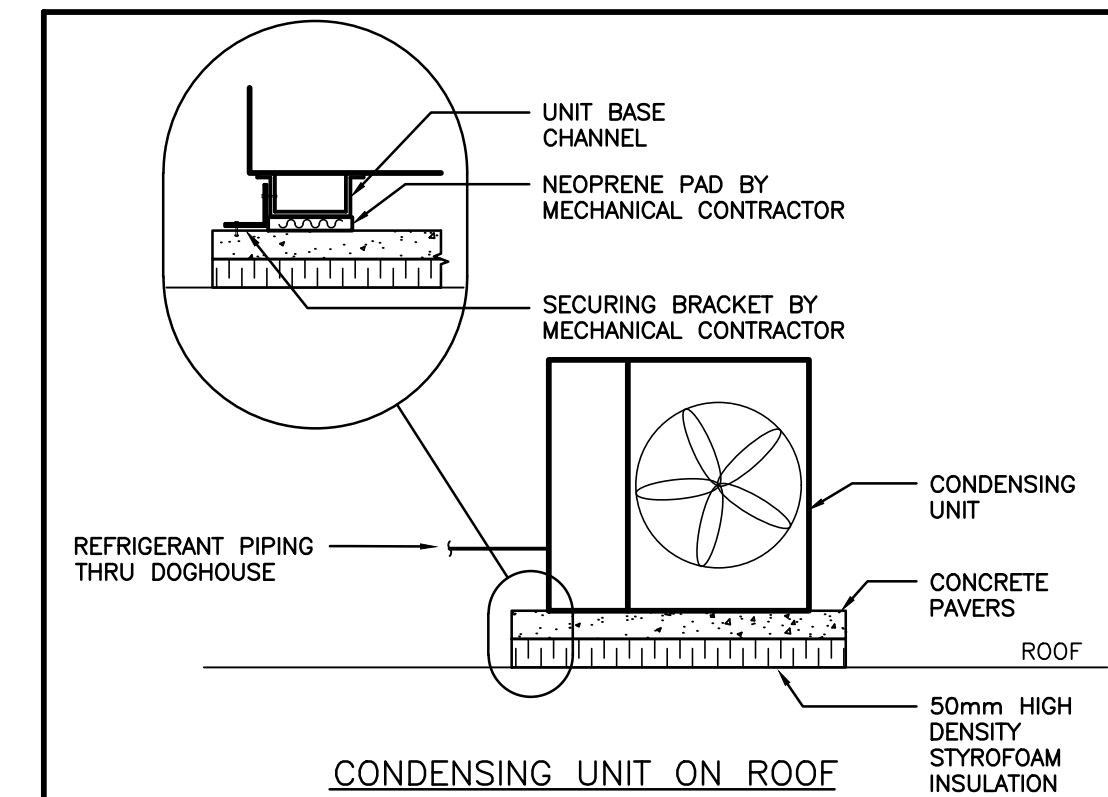
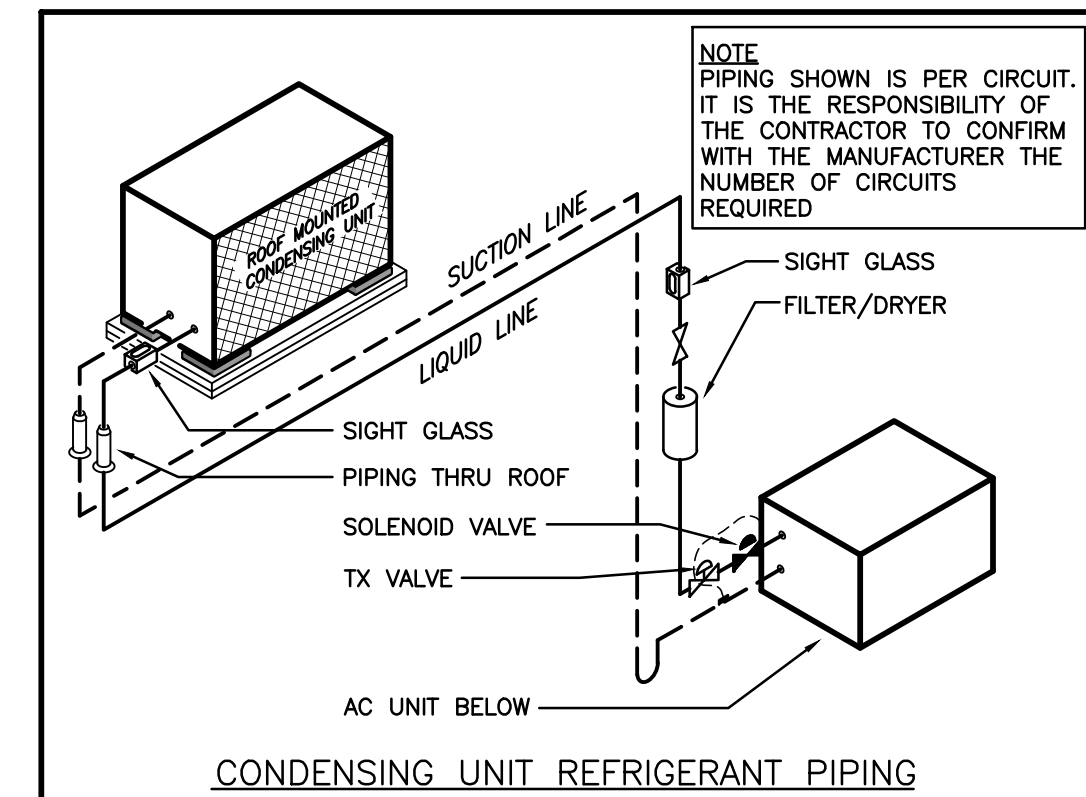
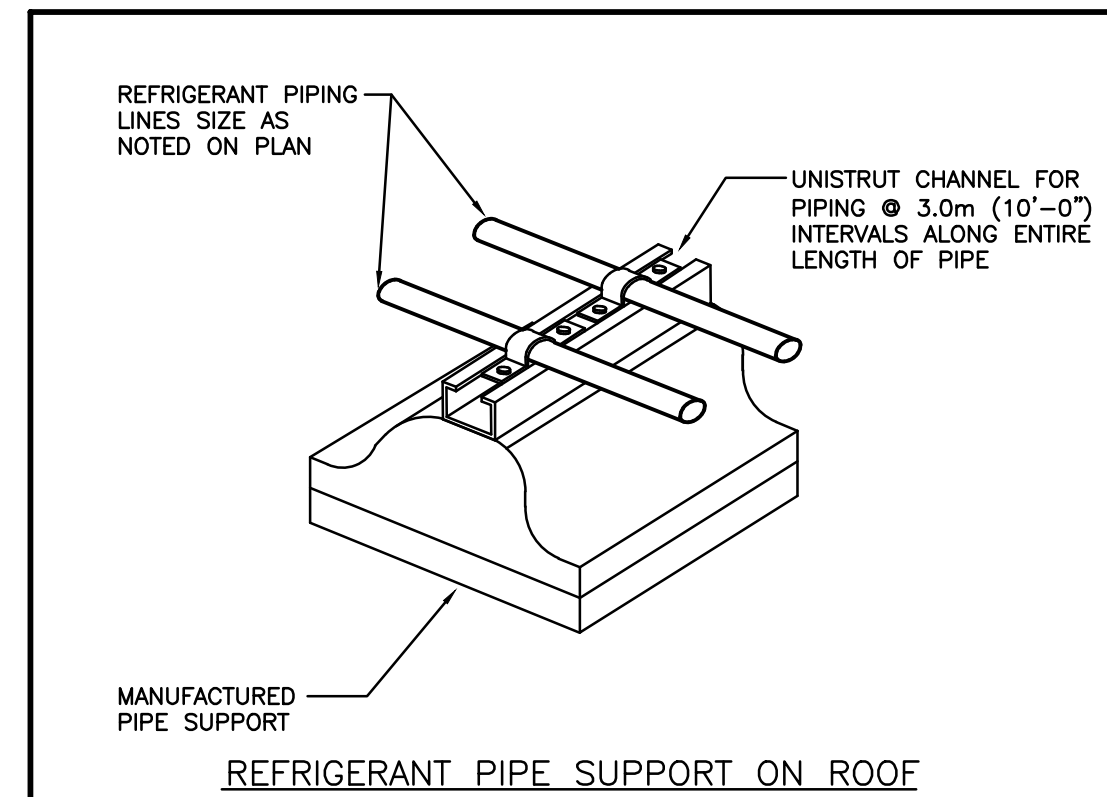
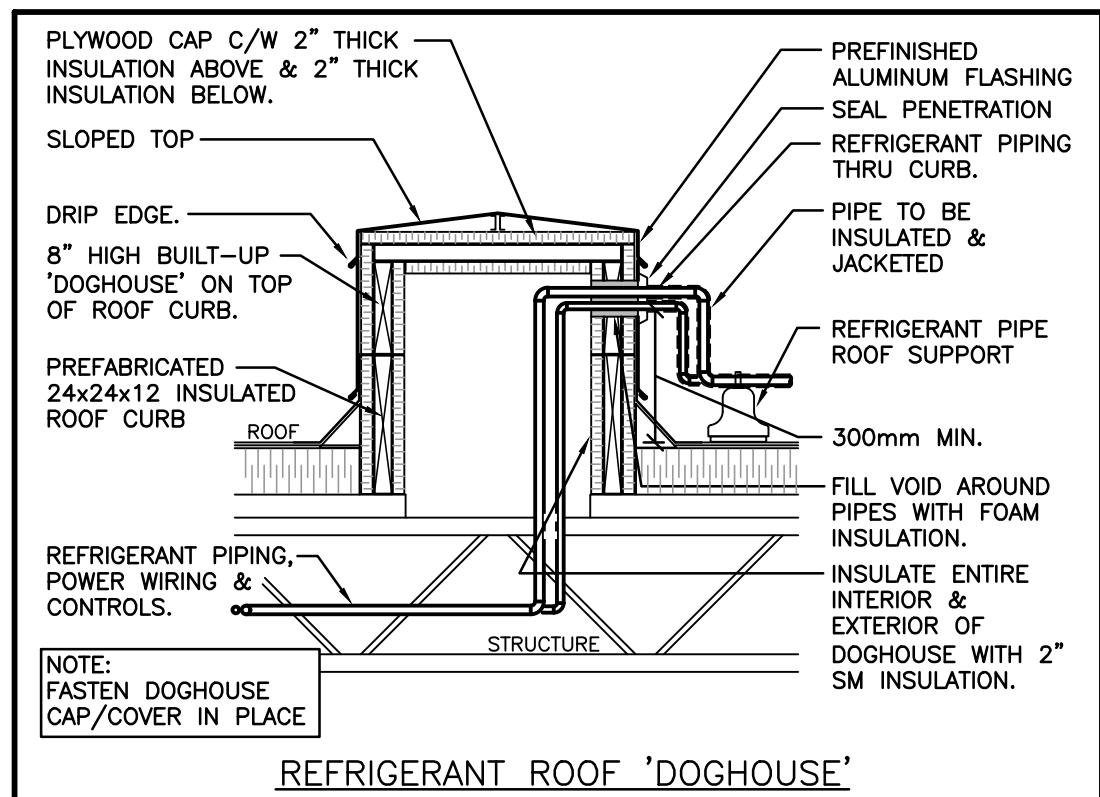
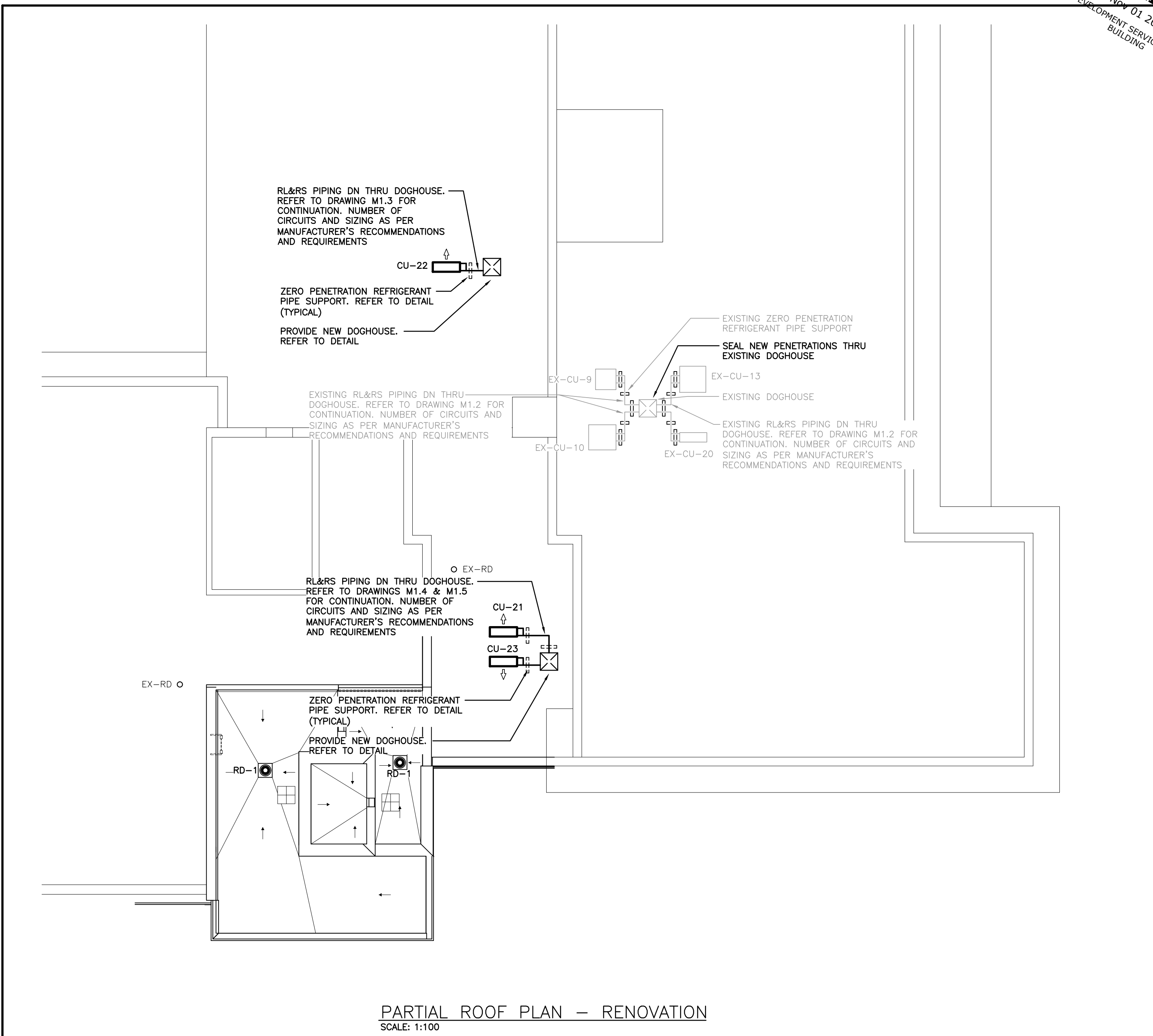
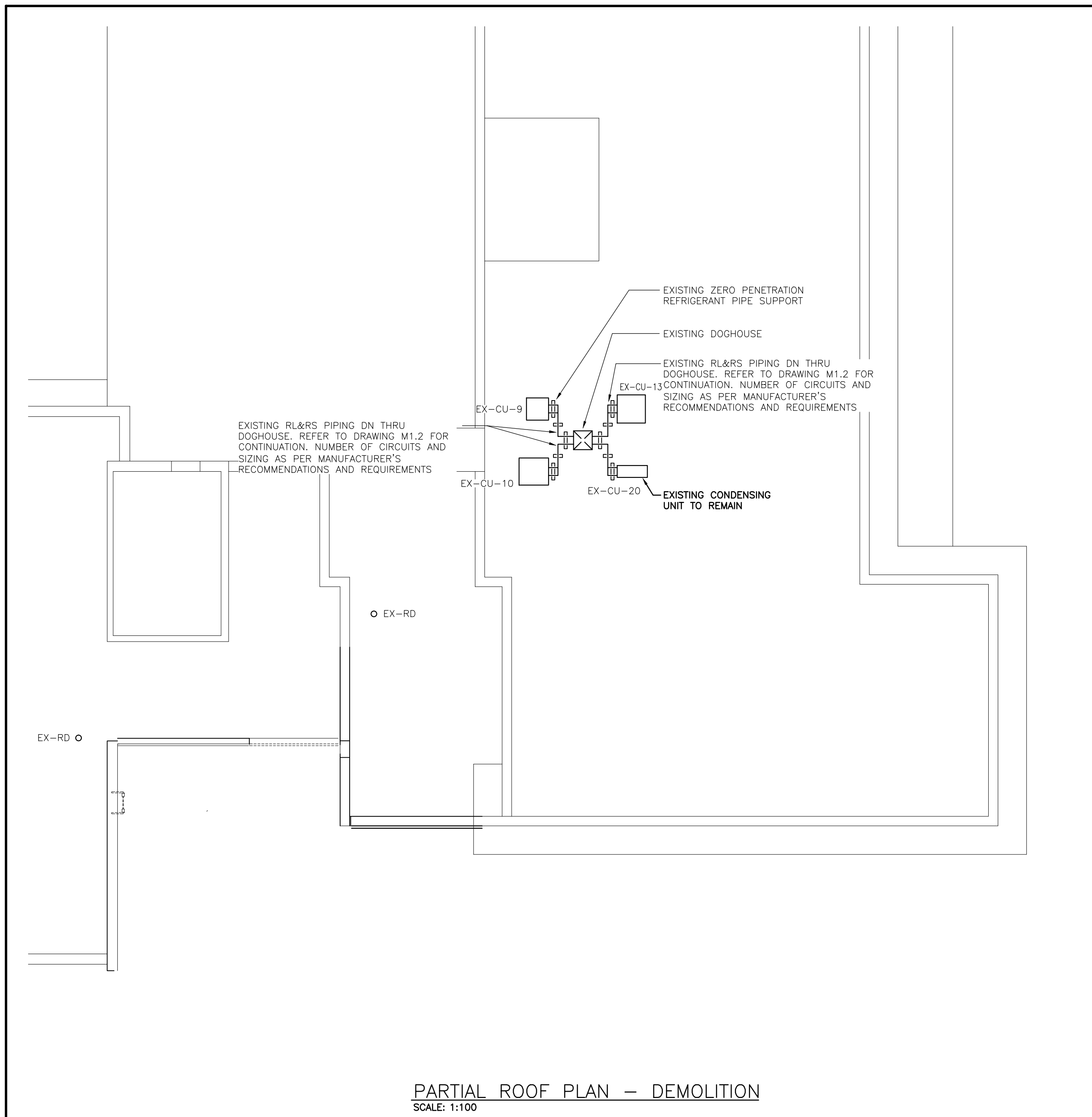
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M1.5

All dimensions and measurements must be checked and verified by the General Contractor. Partial Renovation Plans

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GENERAL NOTES

- MAINTAIN MINIMUM 3700mm (12'-0") LATERAL DISTANCE BETWEEN SANITARY VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- MAINTAIN MINIMUM 3000mm (10'-0") LATERAL DISTANCE BETWEEN PRV, FUEL FIRED APPLIANCE, AND/OR EXHAUST VENTS AND ALL AIR INTAKE/EXHAUST OPENINGS.
- ALL EQUIPMENT SHALL BE MINIMUM 3.0m FROM EDGE OF ROOF.

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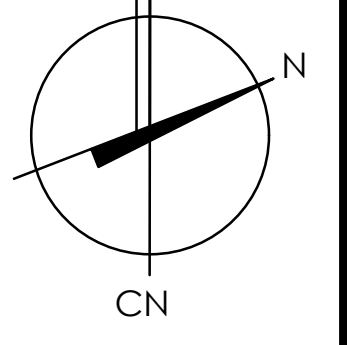
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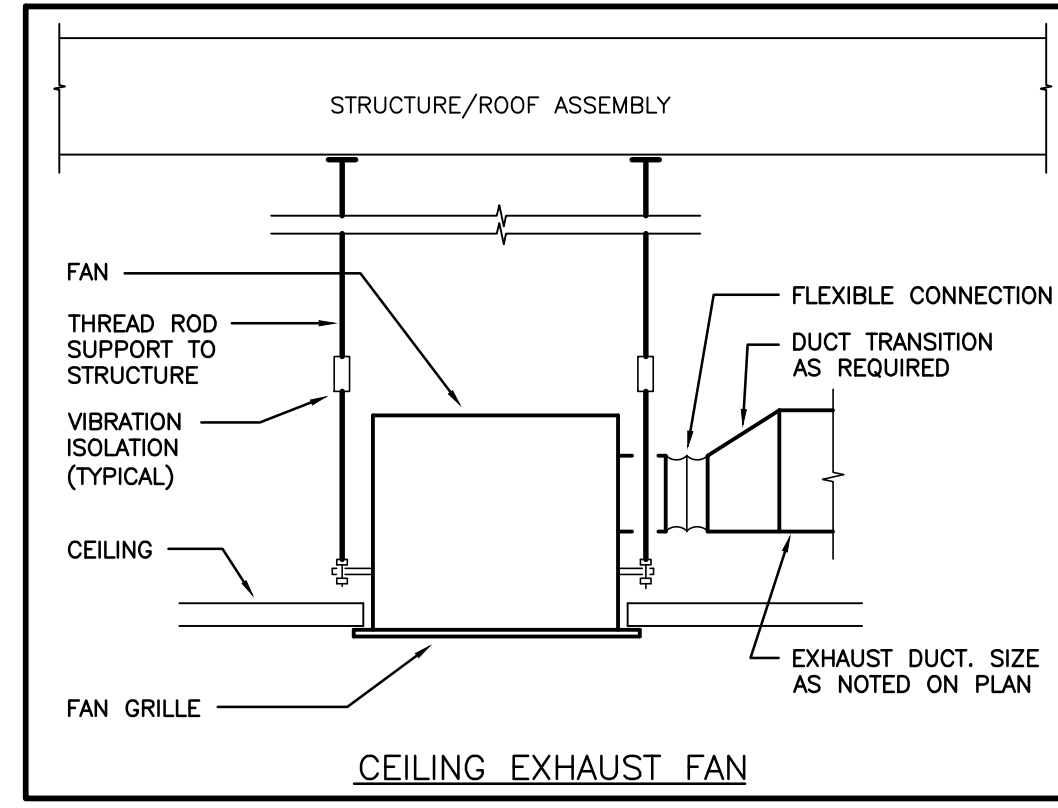
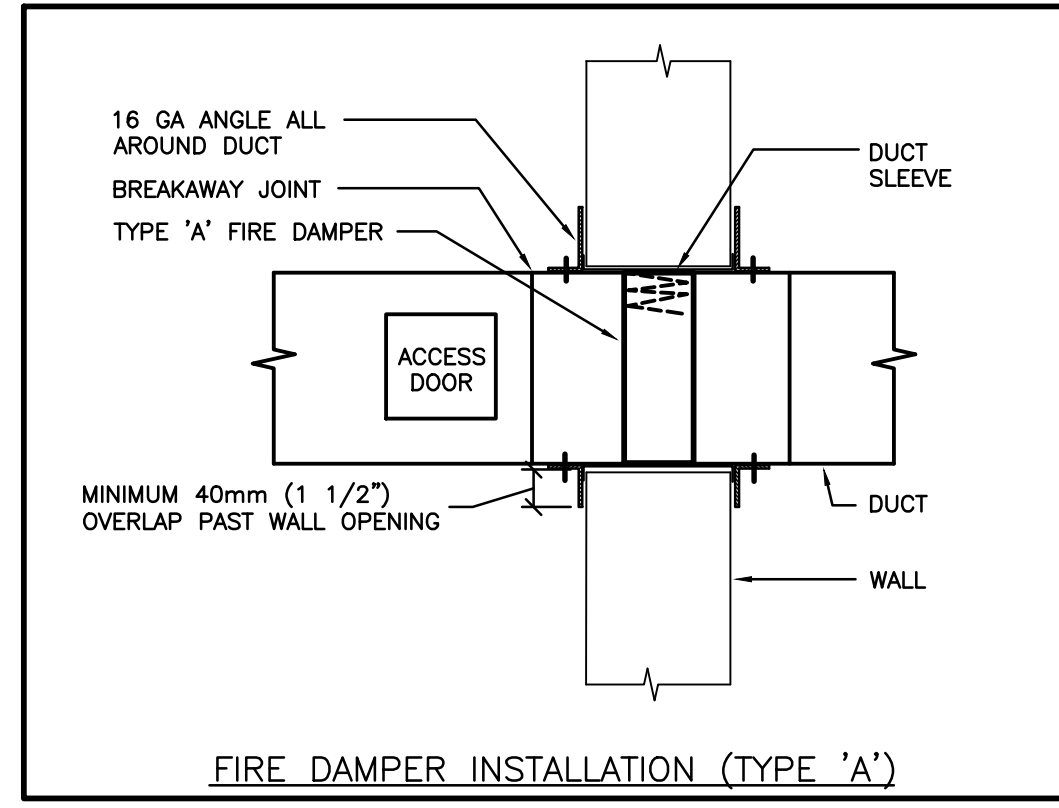
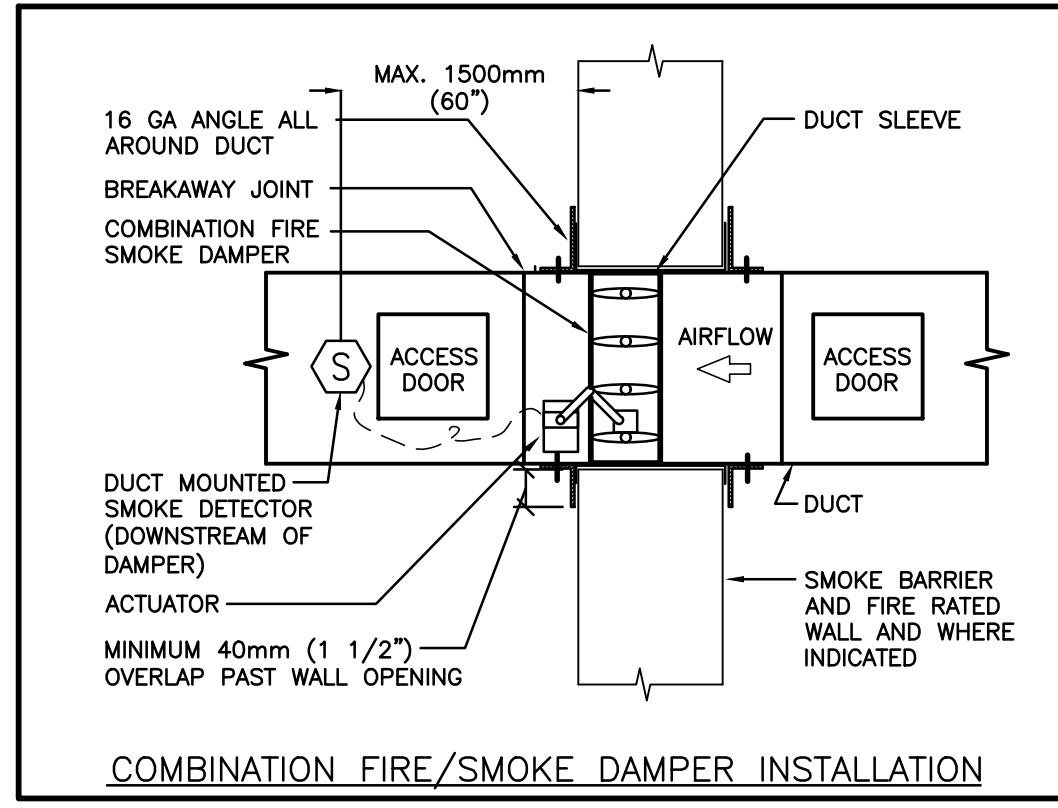
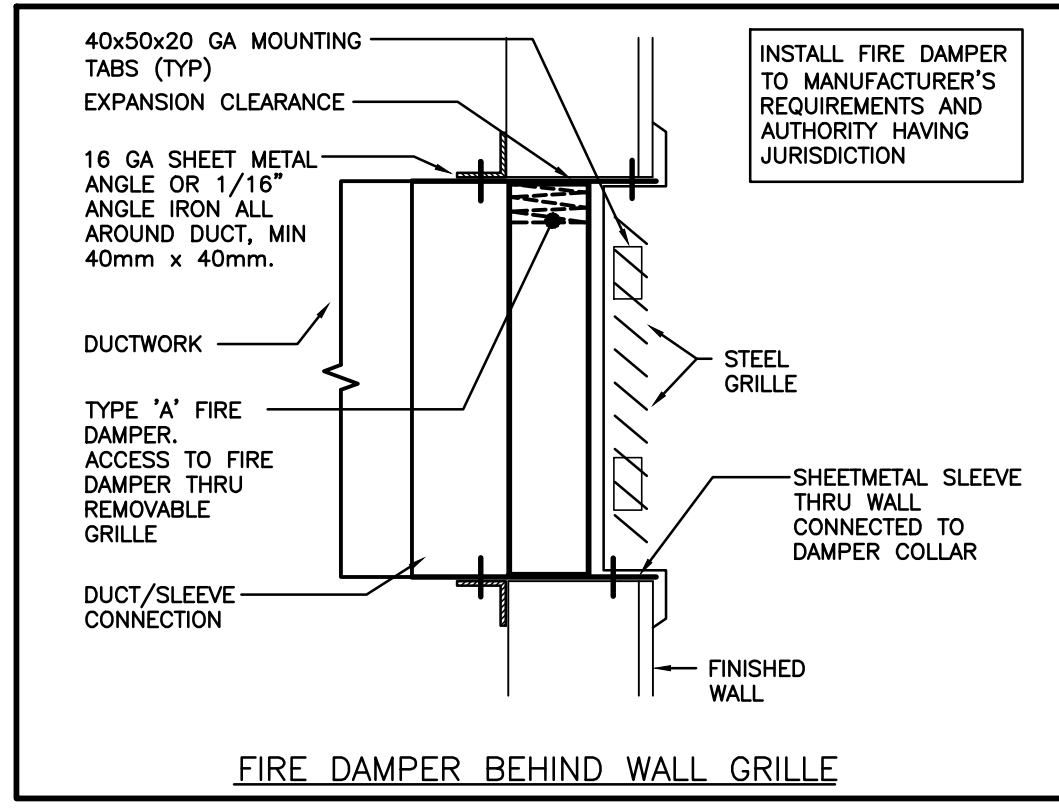
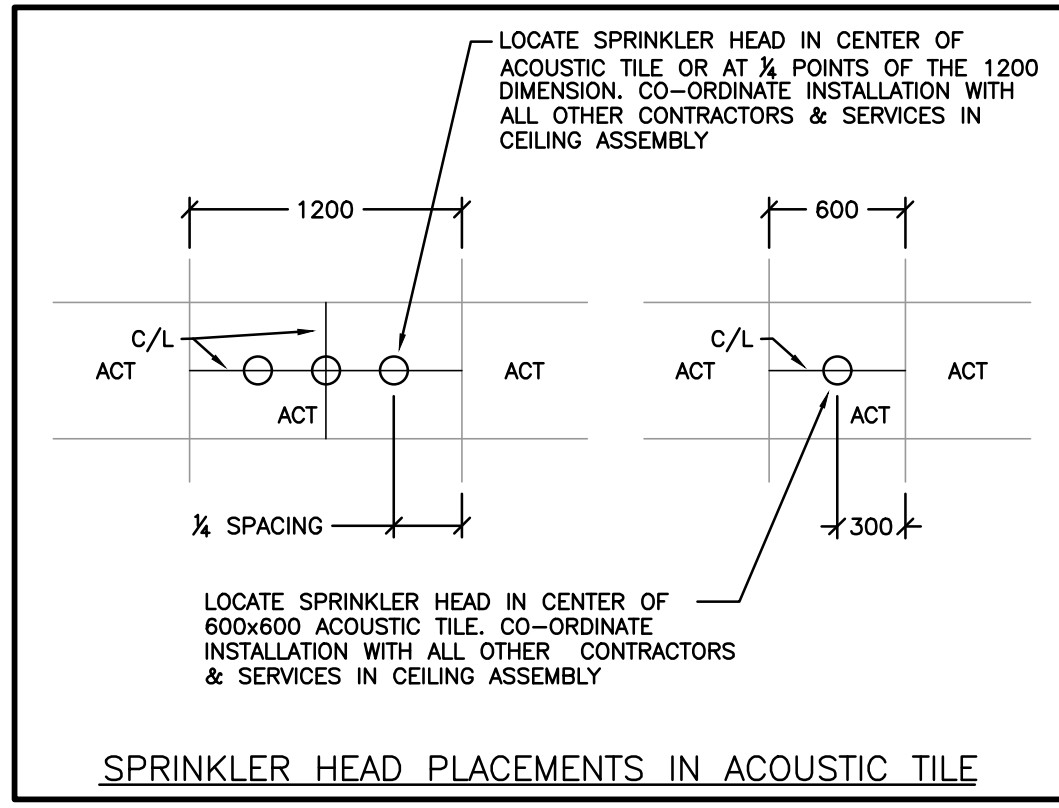
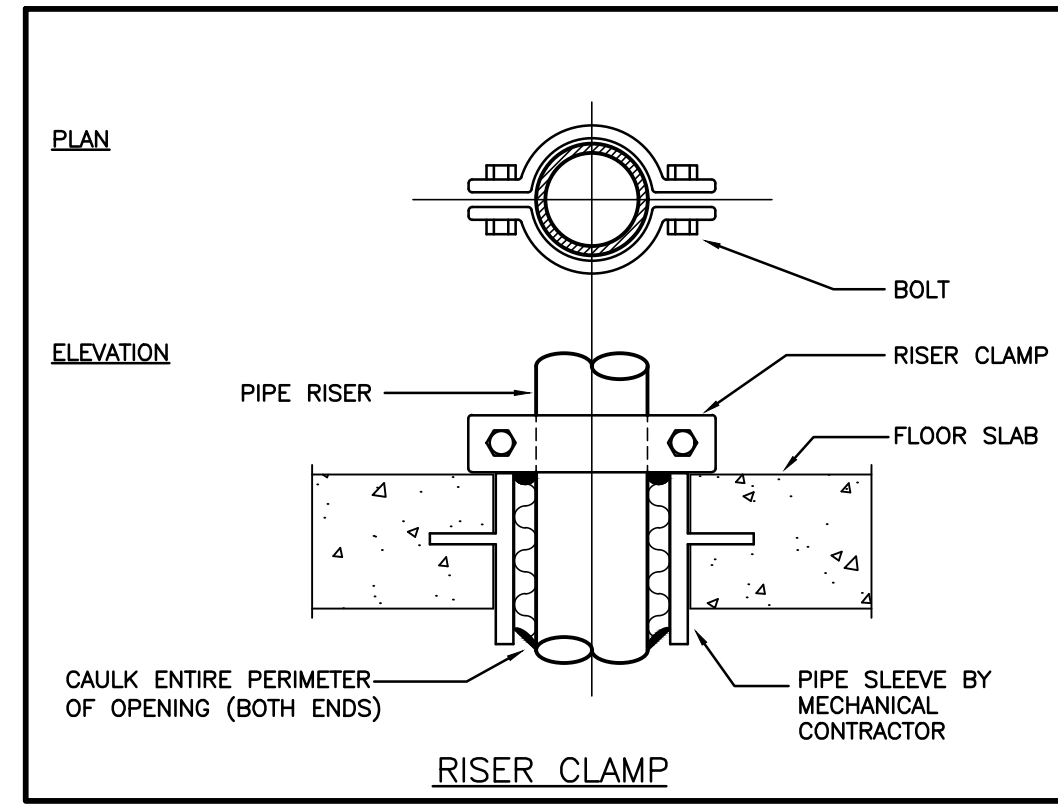
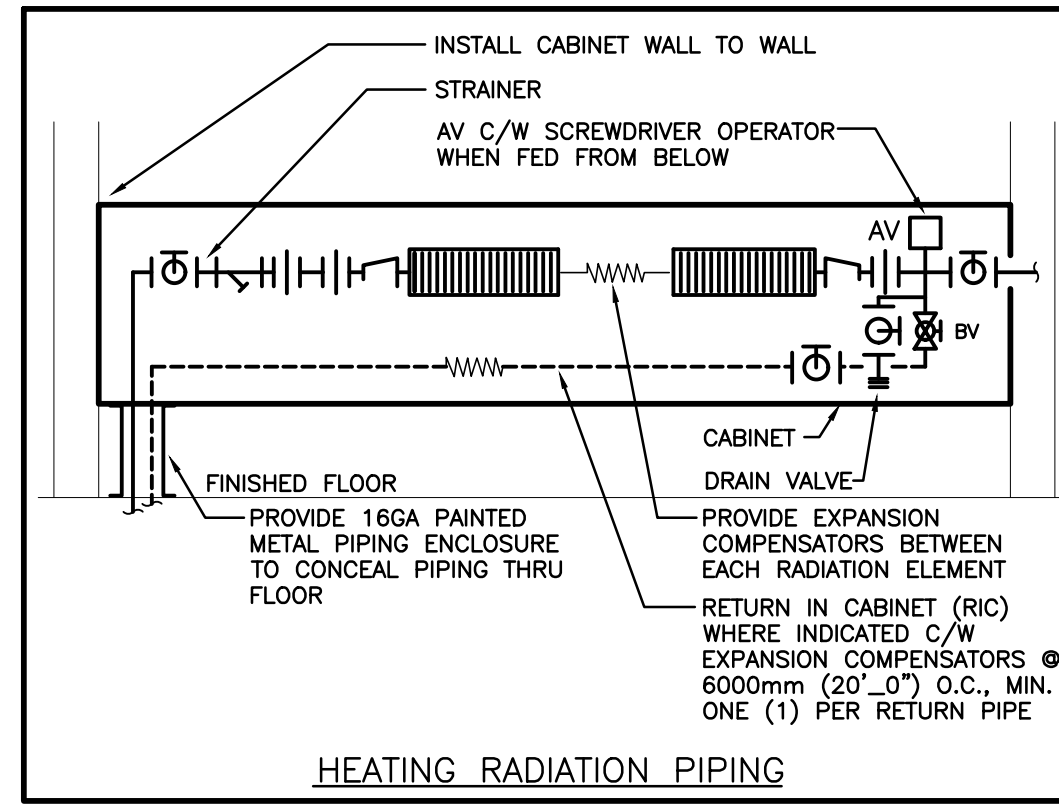
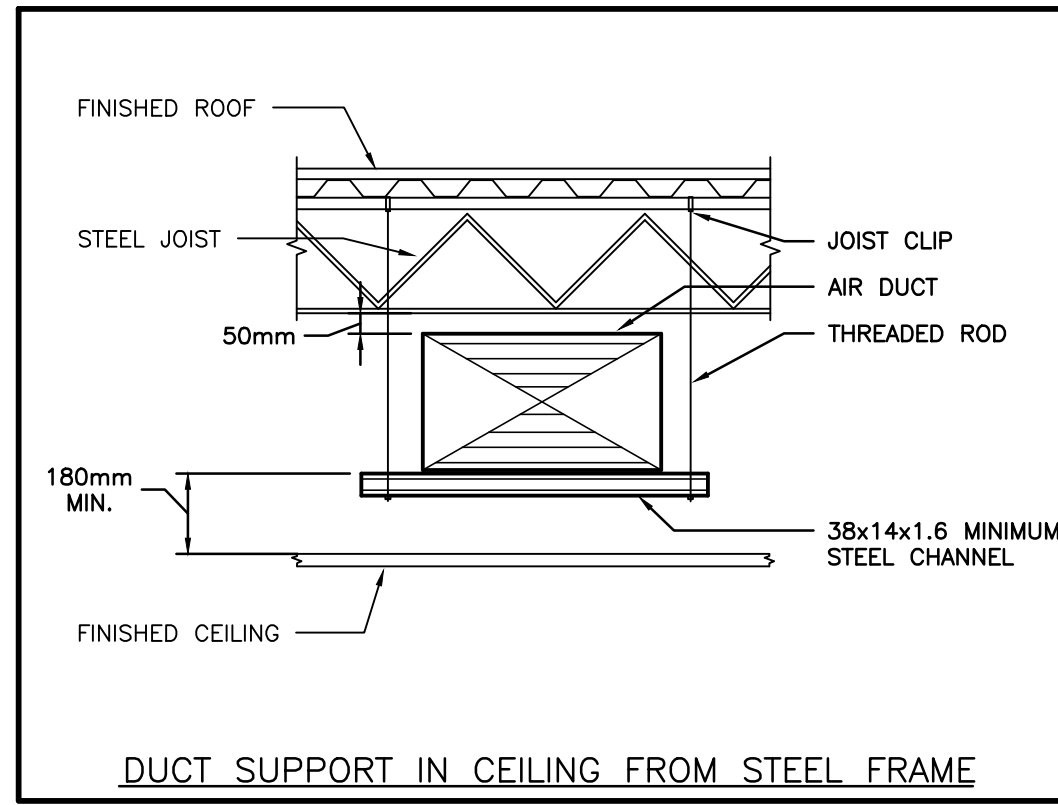
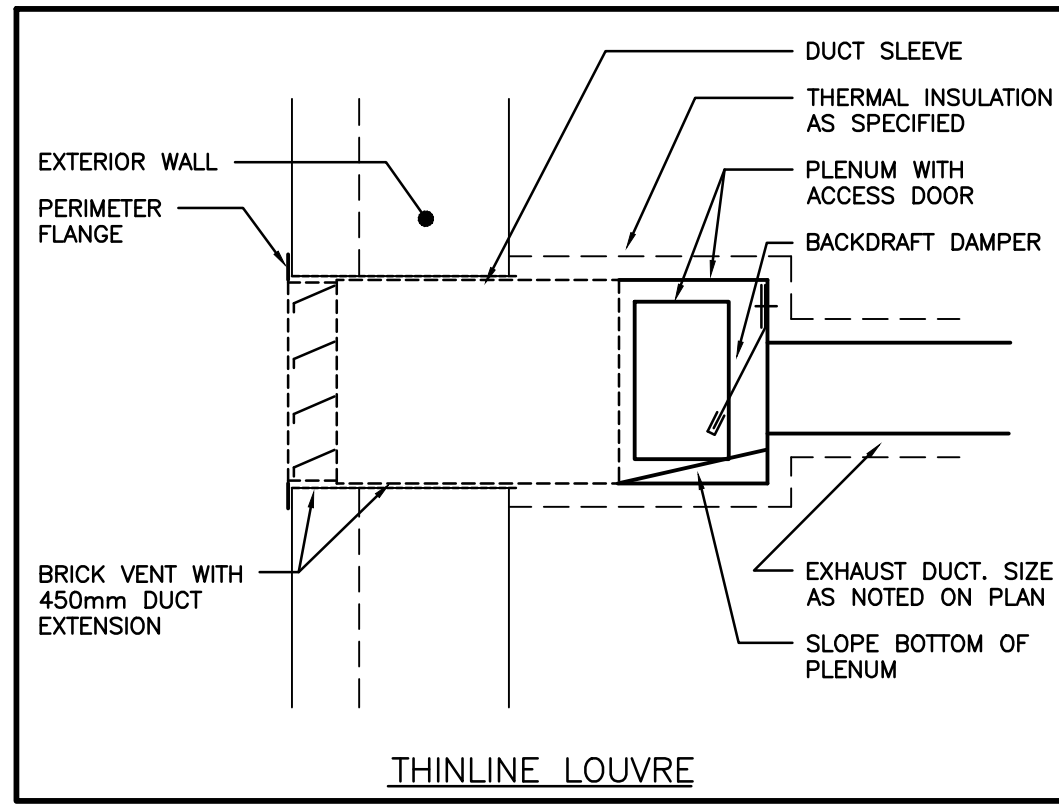
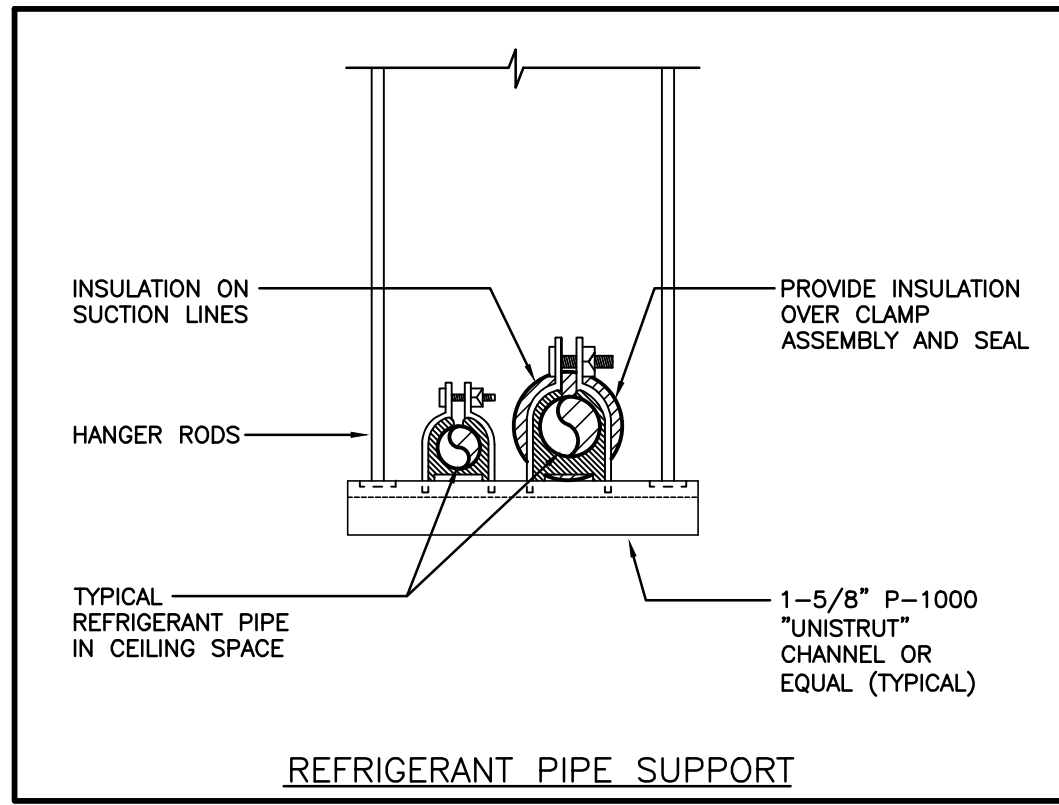
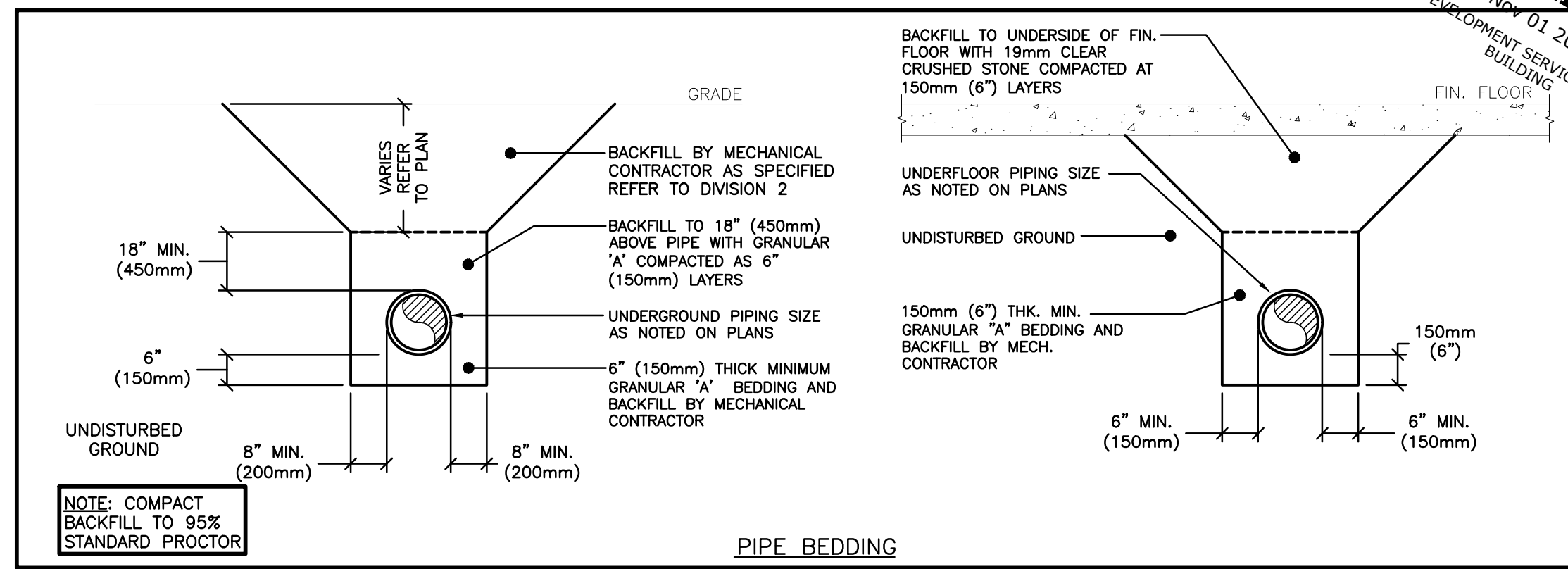
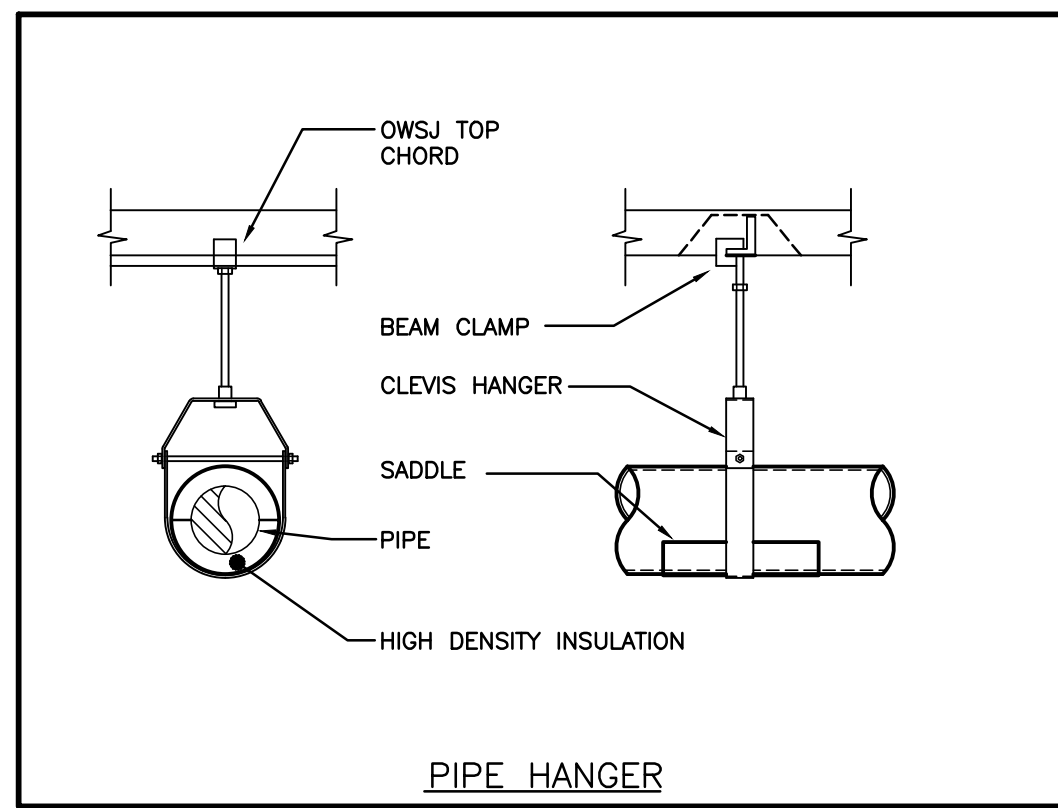
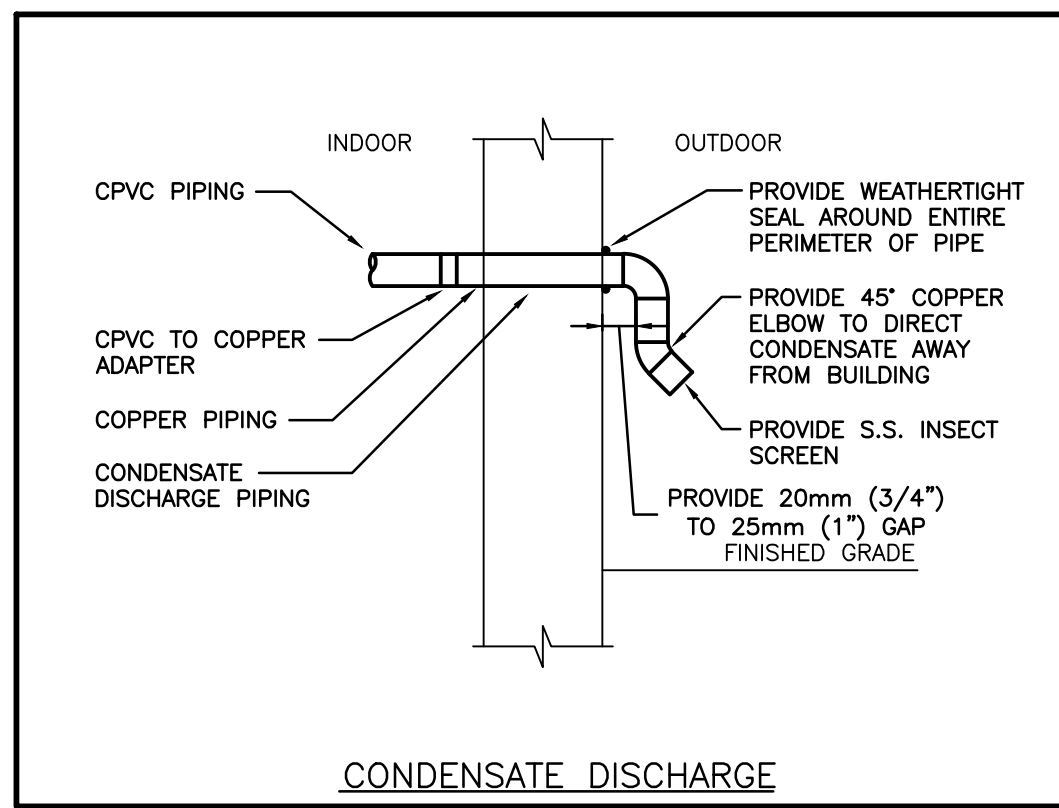
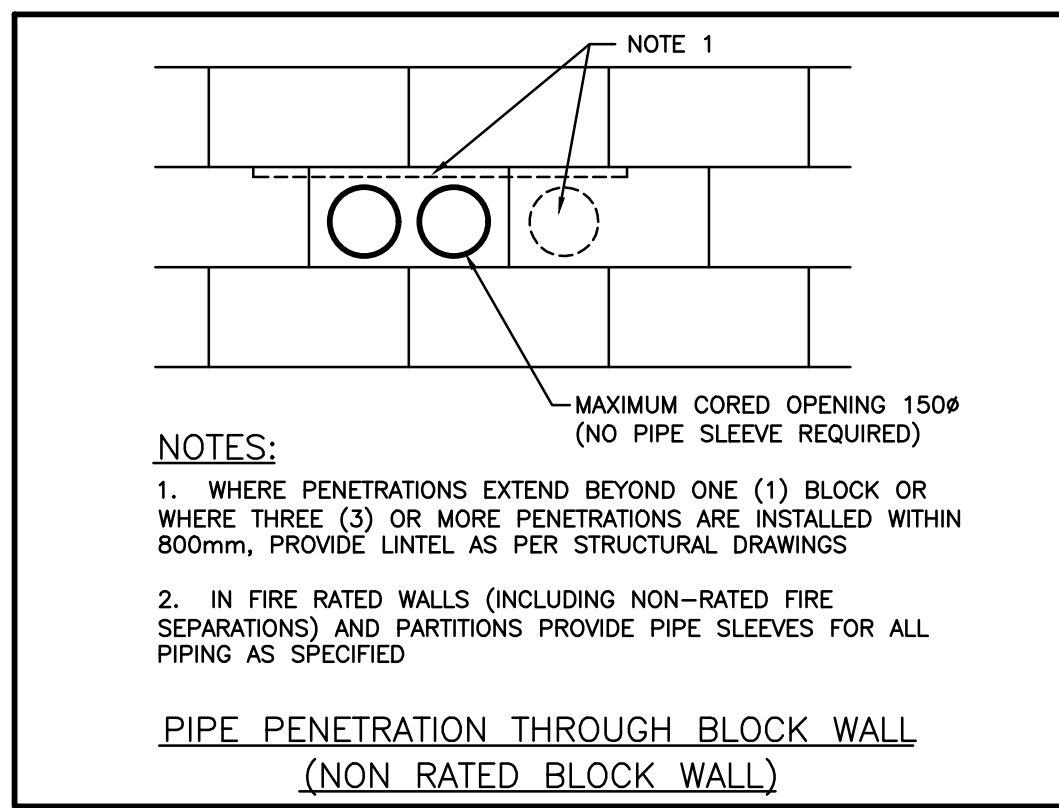


CLIENT
 WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTARIO, N2C 2R5

PROJECT:
 22059
 KING EDWARD PS ELEVATOR ADDITION
 709 KING STREET WEST, KITCHENER, ON N2G 1E3

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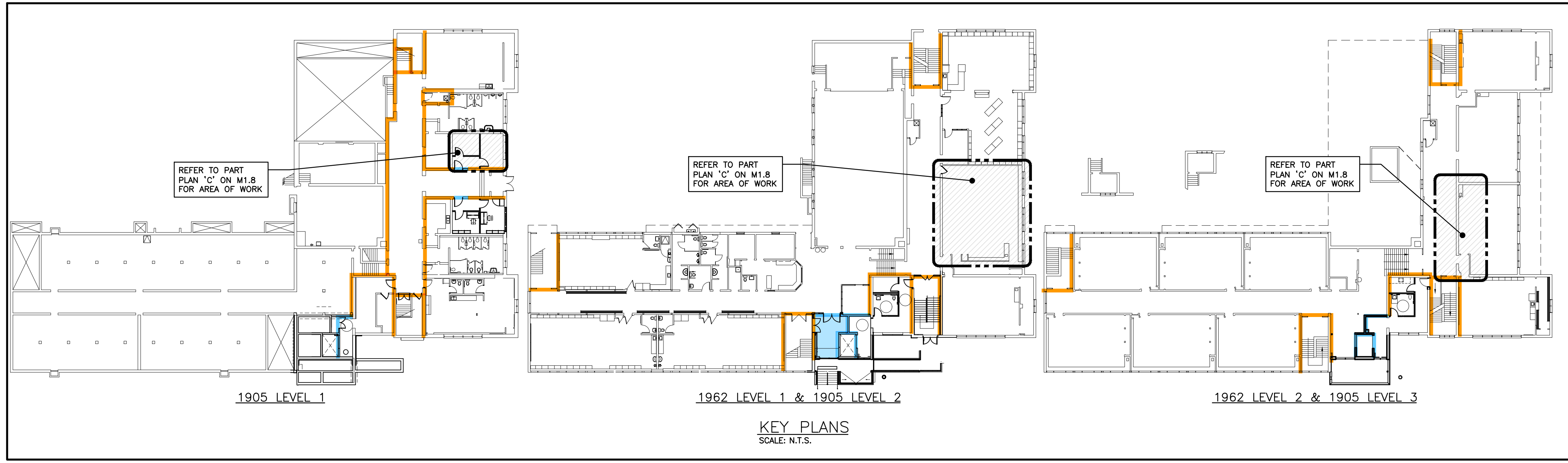
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All drawings and specifications must be checked and verified by the General Contractor.

DETAILS

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BUILDING



KEY PLANS
SCALE: N.T.S.

SPLIT AIR CONDITIONING UNIT SCHEDULE (CASH ALLOWANCE)

Item	Service	Capacity (Tons)	Refrig.	Unit Weight lbs	MCA	MOCP	Voltage	Manufacturer & Model	Remarks
AC-25	NEW OFFICE N40	0.75	R410A	40±	0.25	15	208/1/60	LG ARNU093TAA4	INTERLOCK TO CU-23. PROVIDE POWER FROM CU-23, C/W PT-UMCI GRILLE, PTDQ COVER, & PTK410+420 VENTILATION KIT
AC-26	NEW OFFICE N41	0.75	R410A	40±	0.25	15	208/1/60	LG ARNU093TAA4	INTERLOCK TO CU-23. PROVIDE POWER FROM CU-23, C/W PT-UMCI GRILLE, PTDQ COVER, & PTK410+420 VENTILATION KIT

1. ACCEPTABLE MANUFACTURERS: DAIKIN/CARRIER/LG/LENNOX/MITSUBISHI

AIR COOLED CONDENSING UNIT SCHEDULE (CASH ALLOWANCE)

Item	Type	Service	Tons	Capacity MBH	Compressor			Sat. Suction Temp °F	No. of Cond. Fans	Electrical			Unit Weight lbs	Manufacturer	Model	Remarks	
					Type	No.	Stages			Voltage	MCA	MOCP					
CU-23	OUTDOOR ROOF MOUNTED	NEW OFFICE N40 & NEW OFFICE N41	2.0	24.0	SCROLL	1	1	R410A	52	1	208/1/60	19.6	30	250±	LG	ARUN024GSS4	PROVIDE CONTINUOUS SUPPORT AS PER DETAIL. CONNECT TO AC-25 & AC-26

1. ACCEPTABLE MANUFACTURERS: DAIKIN/CARRIER/MITSUBISHI/LG/LENNOX/TRANE

GENERAL DEMOLITION NOTES

- EXISTING MECHANICAL ITEMS NOT SHOWN SHALL REMAIN UNLESS NOTED OTHERWISE.
- EXISTING MECHANICAL ITEMS SHOWN BUT NOT NOTED AS BEING REMOVED OR RENOVATED SHALL REMAIN AS PRESENTLY INSTALLED AND OPERATING.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT OR SERVICES SHALL BE NEATLY PATCHED WITH SUITABLE NEW MATERIALS TO SUIT EXISTING CONSTRUCTION.
- PLUMBING VENTS ARE NOT INDICATED OR IDENTIFIED. REMOVE ALL REDUNDANT VENTS WHILE MAINTAINING INTEGRITY OF EXISTING SYSTEMS TO REMAIN.
- REMOVAL OF EXISTING PIPING, OR DUCT SYSTEMS INCLUDES REMOVAL OF ALL HANGERS, INSULATION, FITTINGS, ETC.
- MAINTAIN INTEGRITY OF EXISTING SYSTEMS THAT ARE TO REMAIN OR BE MODIFIED.
- INSTALL NEW SYSTEM OR SERVICES WHERE REQUIRED TO MAINTAIN SYSTEM OPERATION PRIOR TO DEMOLITION OF EXISTING SERVICES.
- THIS CONTRACTOR IS TO REMOVE & REPLACE CEILING AS REQUIRED FOR REMOVAL/REPLACEMENT OF SERVICES.

GENERAL RENOVATION NOTES

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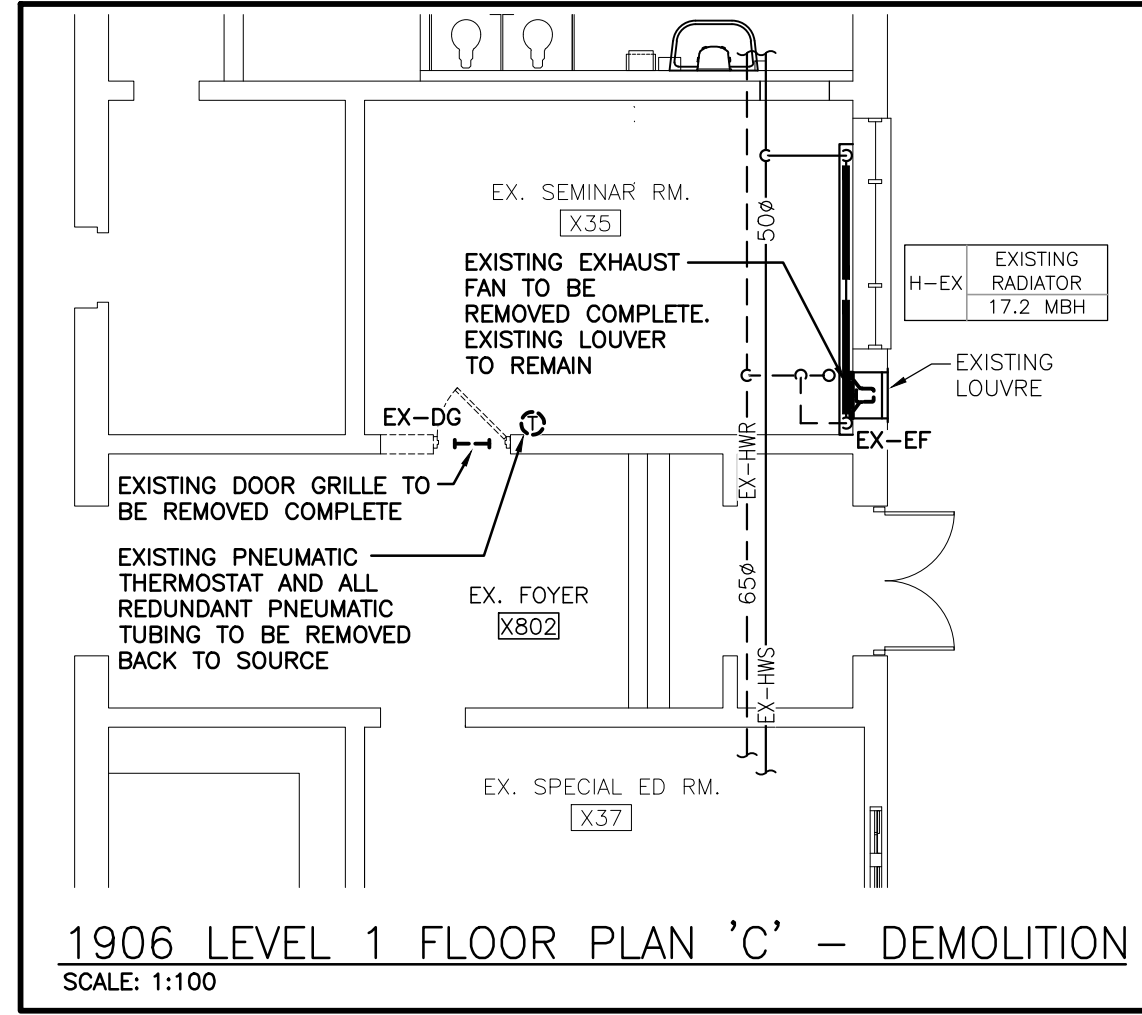
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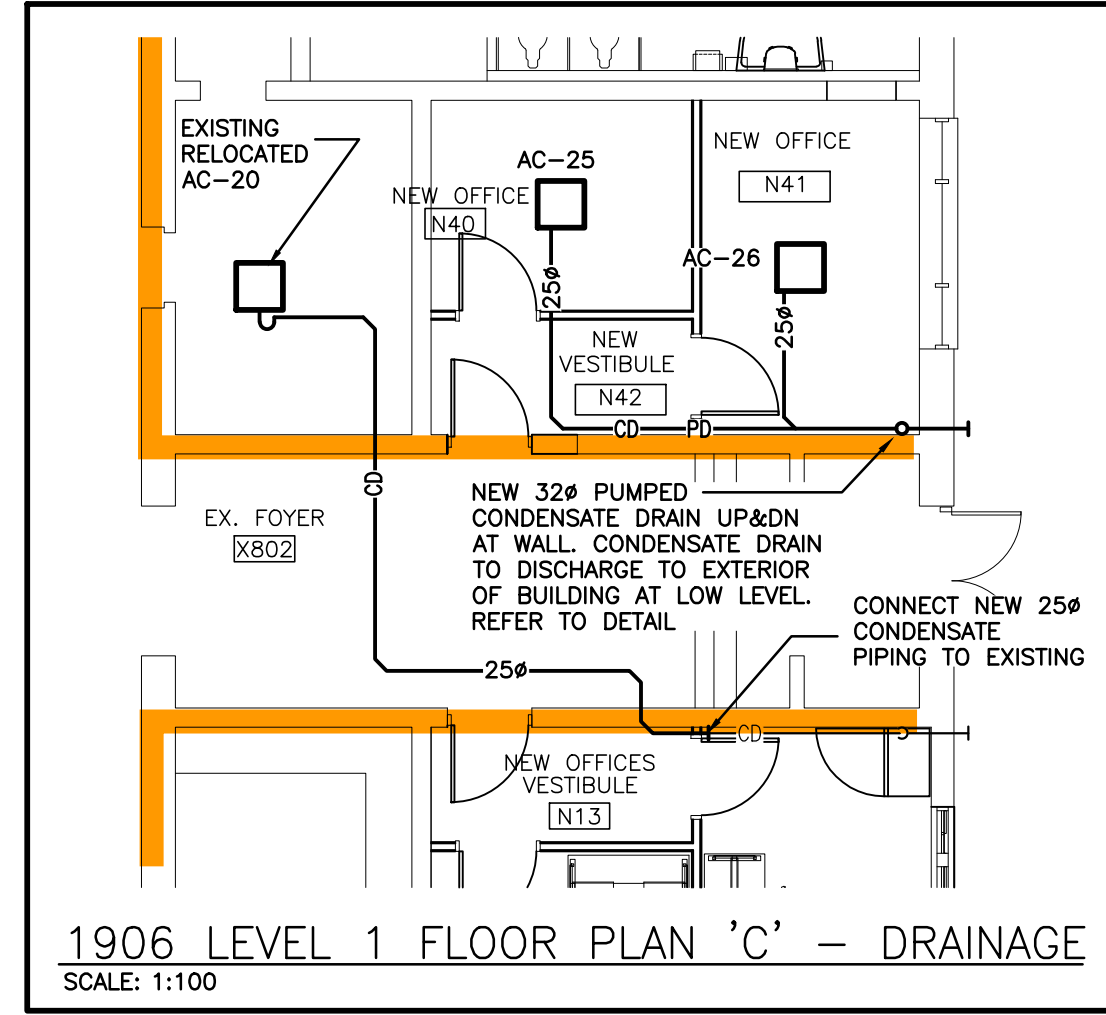
55 Northland Road,
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Phone: 519-749-9355
Website: deiassociates.ca
Project Number: 22064

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WATERLOO REGION DISTRICT SCHOOL BOARD, 51 ARDELT AVENUE, KITCHENER, ONTARIO, N2C 2R5

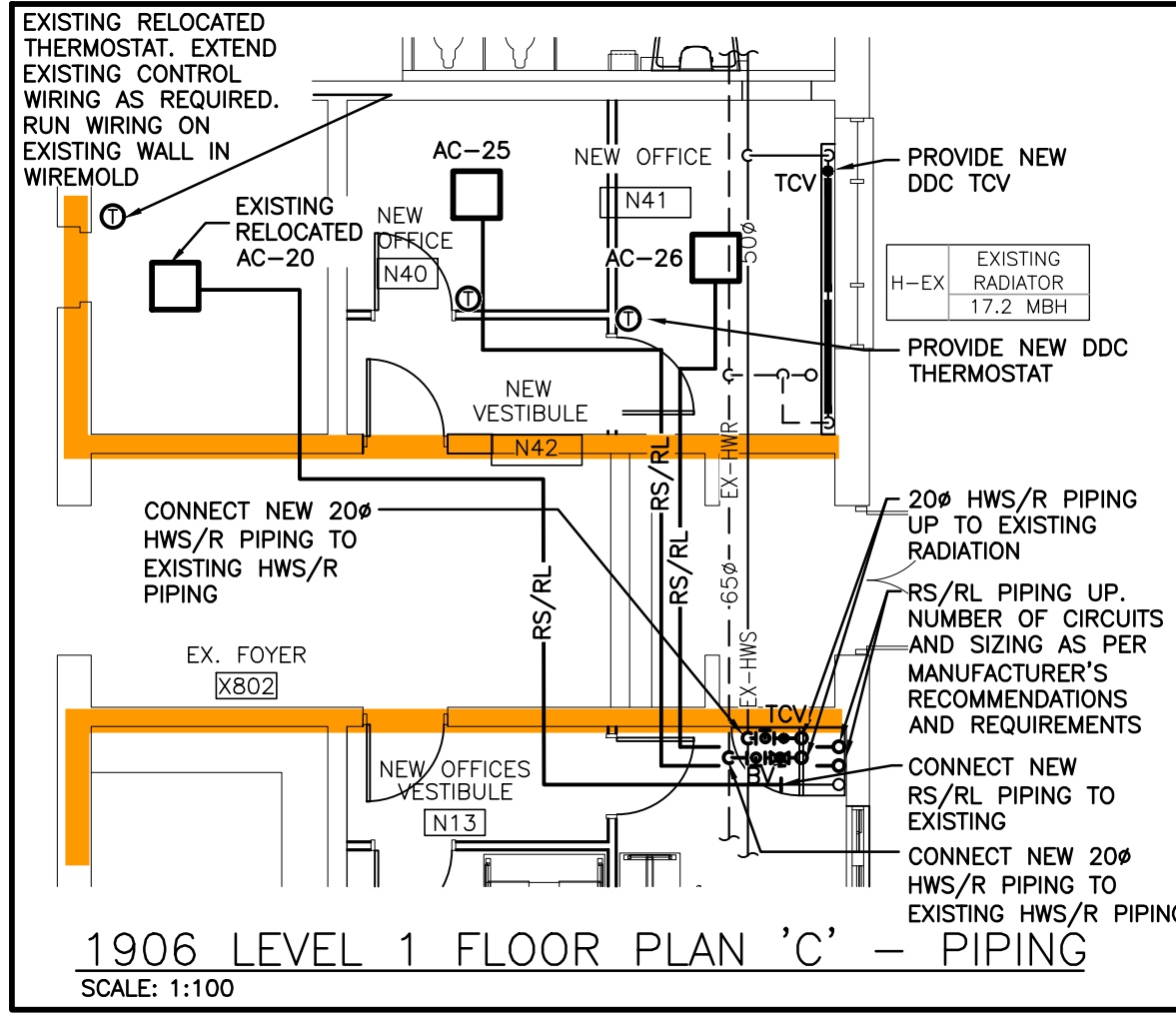
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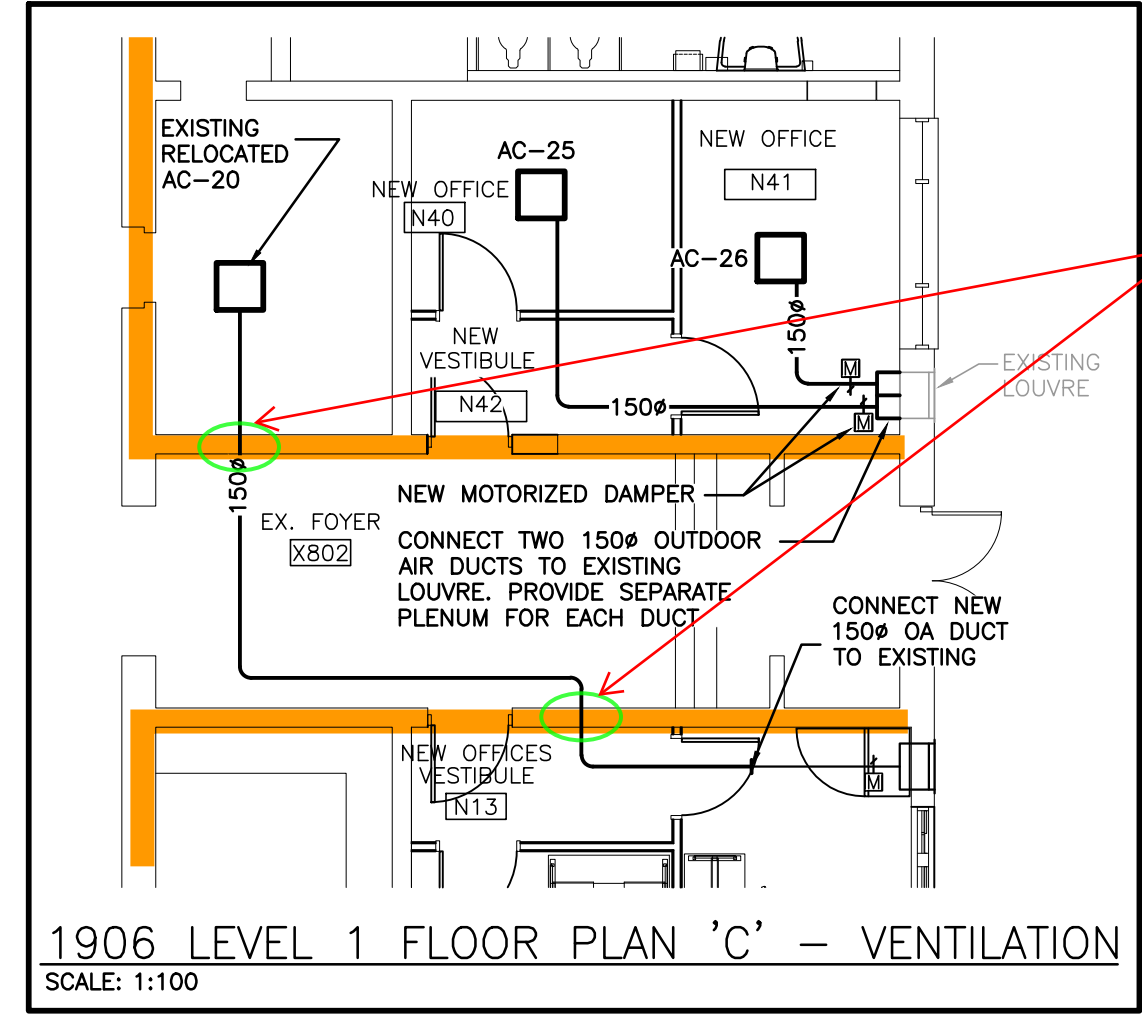
1906 LEVEL 1 FLOOR PLAN 'C' - DEMOLITION
SCALE: 1:100



1906 LEVEL 1 FLOOR PLAN 'C' - DRAINAGE
SCALE: 1:100

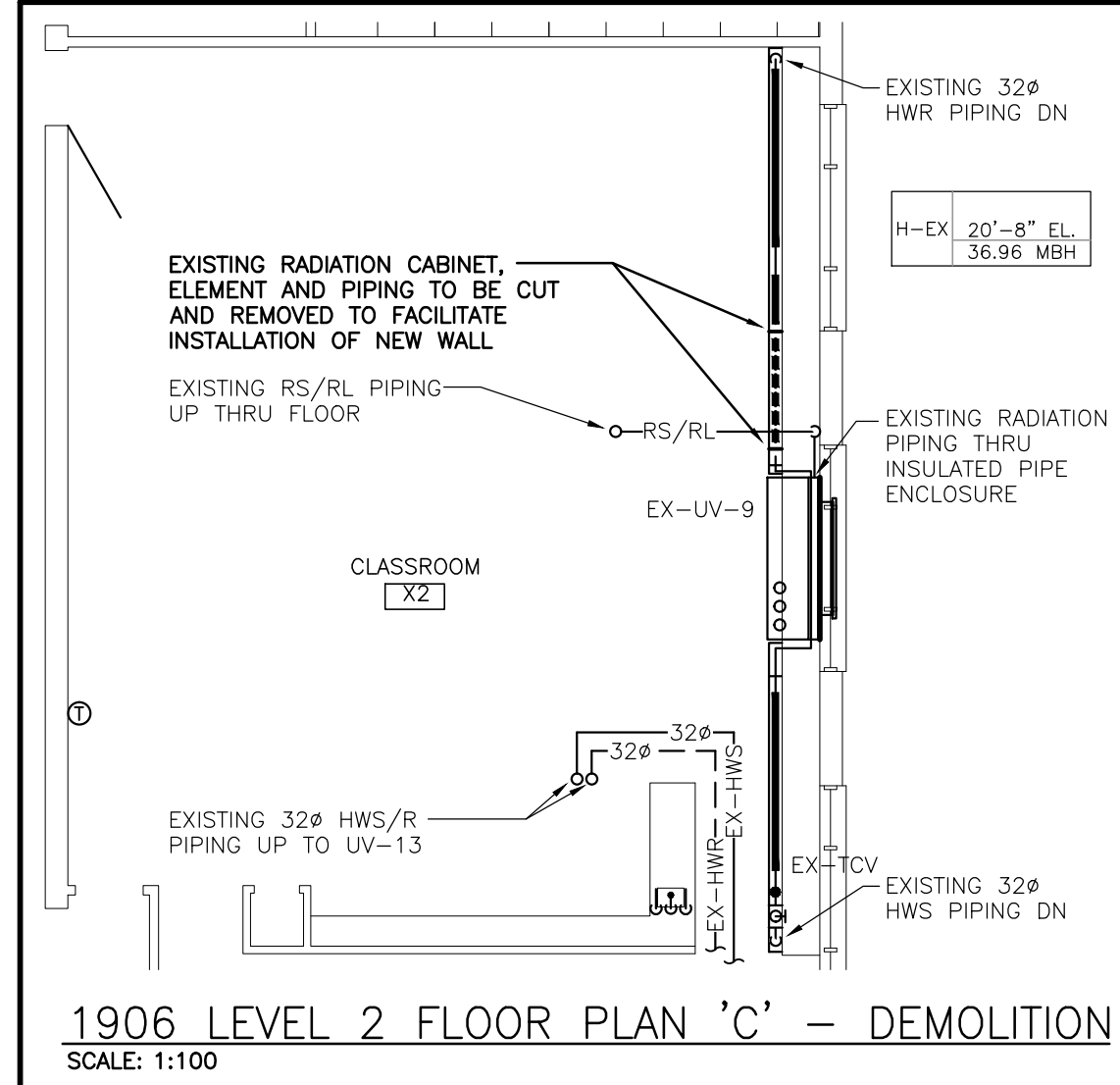


1906 LEVEL 1 FLOOR PLAN 'C' - PIPING
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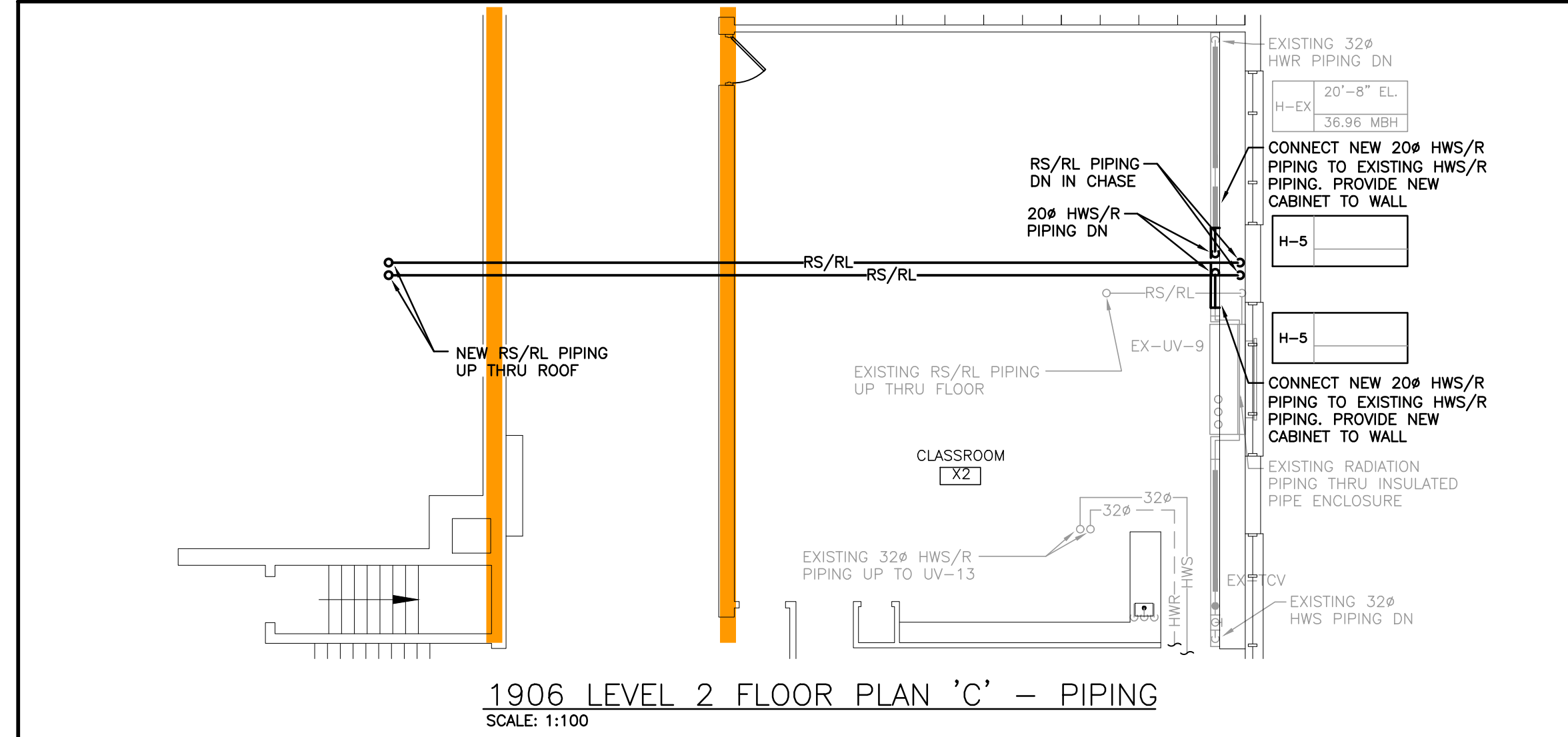


1906 LEVEL 1 FLOOR PLAN 'C' - VENTILATION
SCALE: 1:100

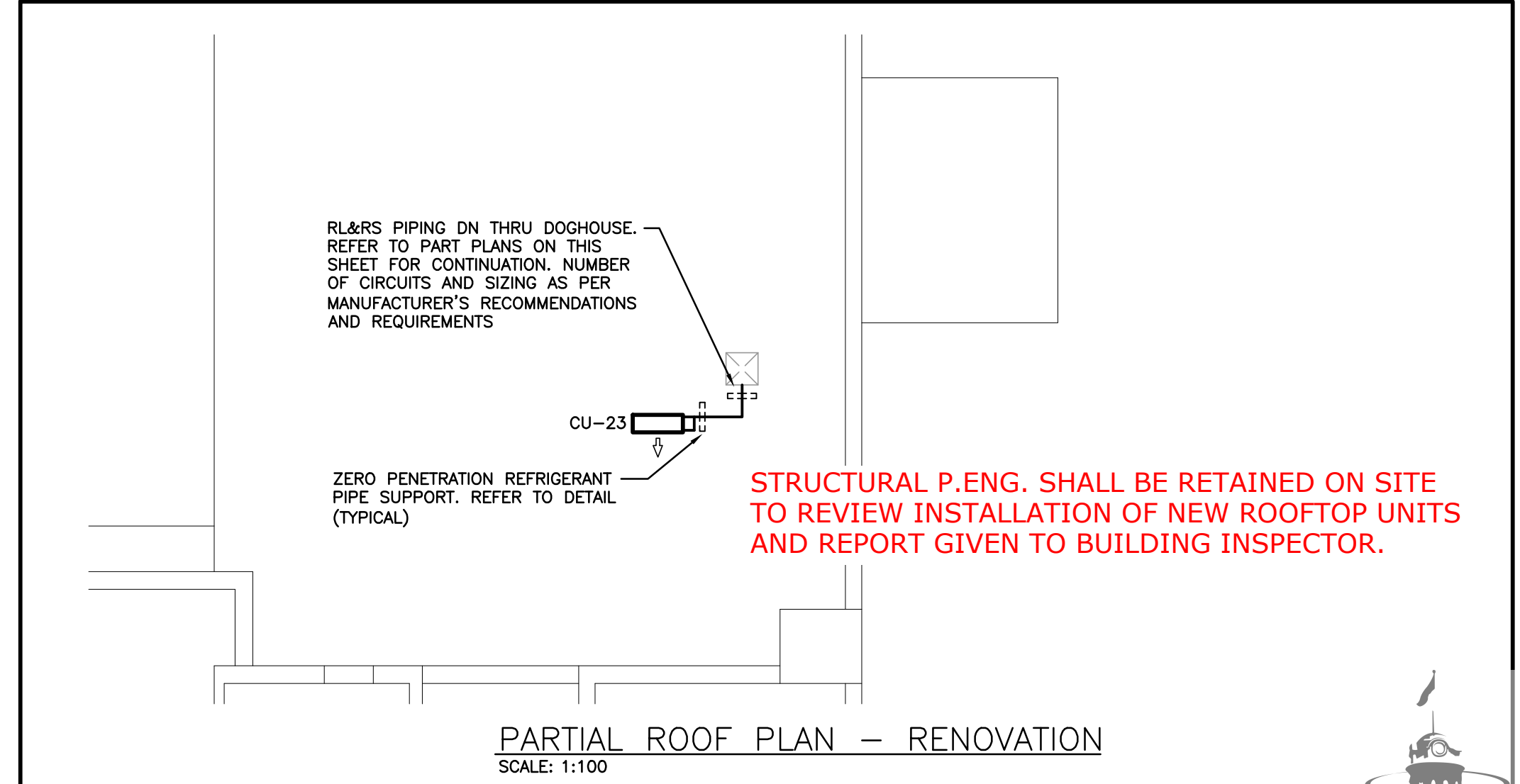
SMOKE OR COMBINATION SMOKE & FIRE DAMPERS REQUIRED IF THIS IS A NEW DUCT PENETRATION.



1906 LEVEL 2 FLOOR PLAN 'C' - DEMOLITION
SCALE: 1:100

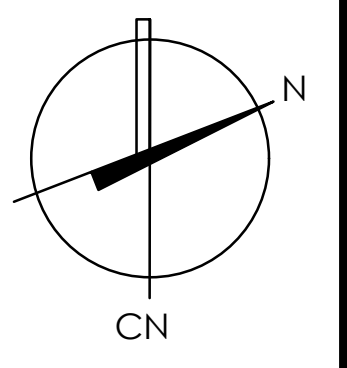


1906 LEVEL 2 FLOOR PLAN 'C' - PIPING
SCALE: 1:100



PARTIAL ROOF PLAN - RENOVATION
SCALE: 1:100

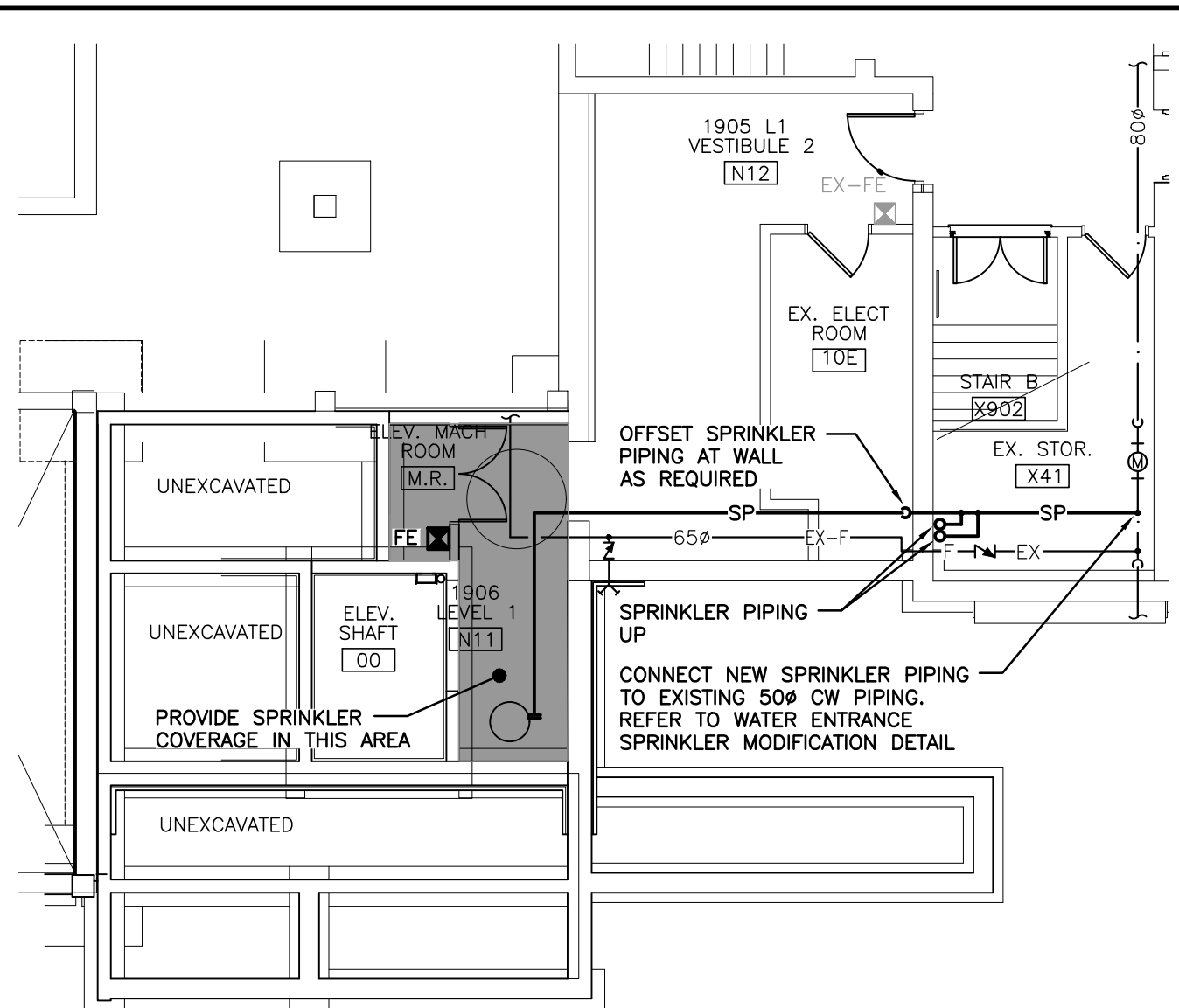
STRUCTURAL P.ENG. SHALL BE RETAINED ON SITE TO REVIEW INSTALLATION OF NEW ROOFTOP UNITS AND REPORT GIVEN TO BUILDING INSPECTOR.



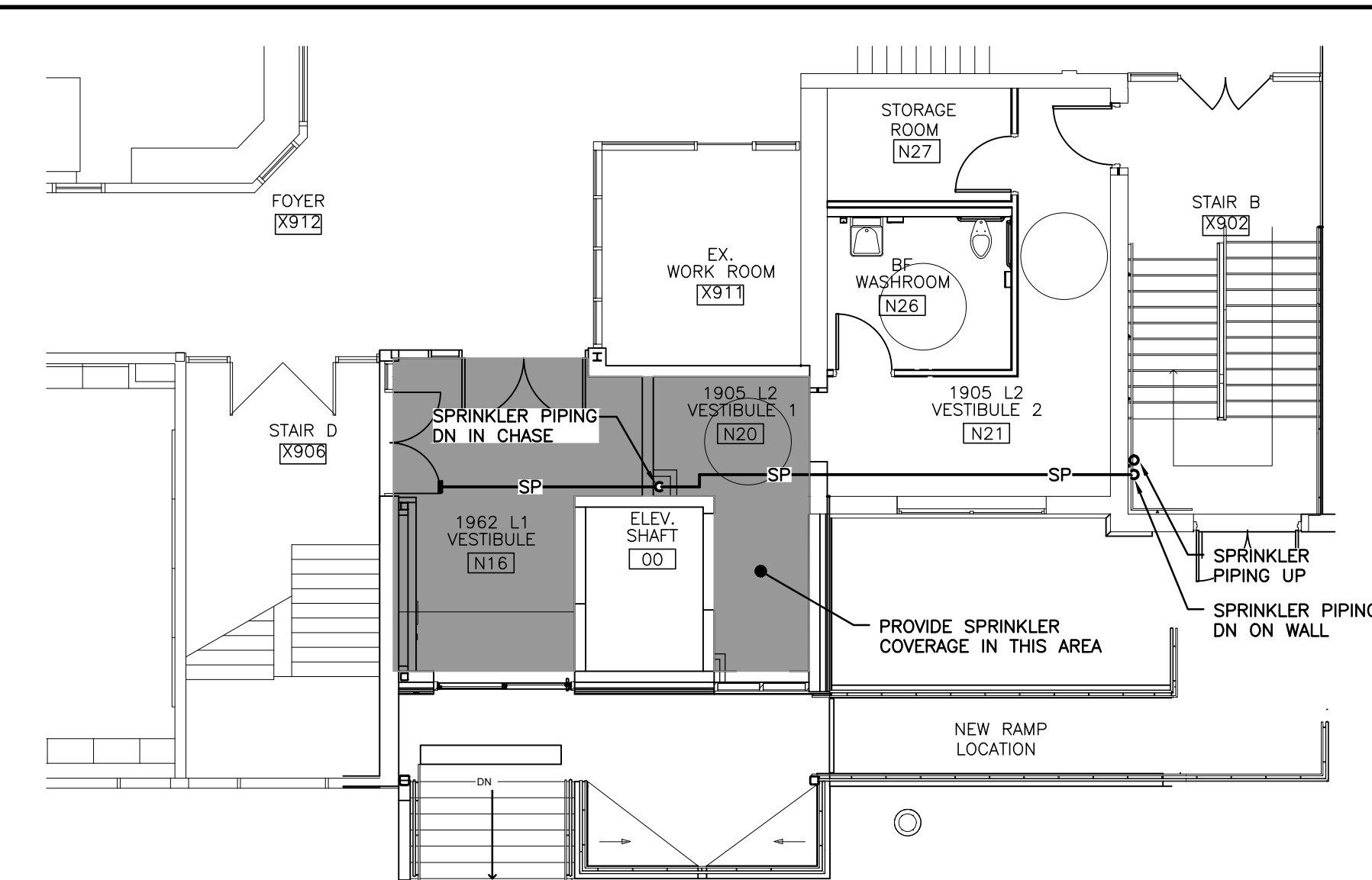
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KEY PLAN, PART DEMO AND RENO PLANS (CASH ALLOWANCE)

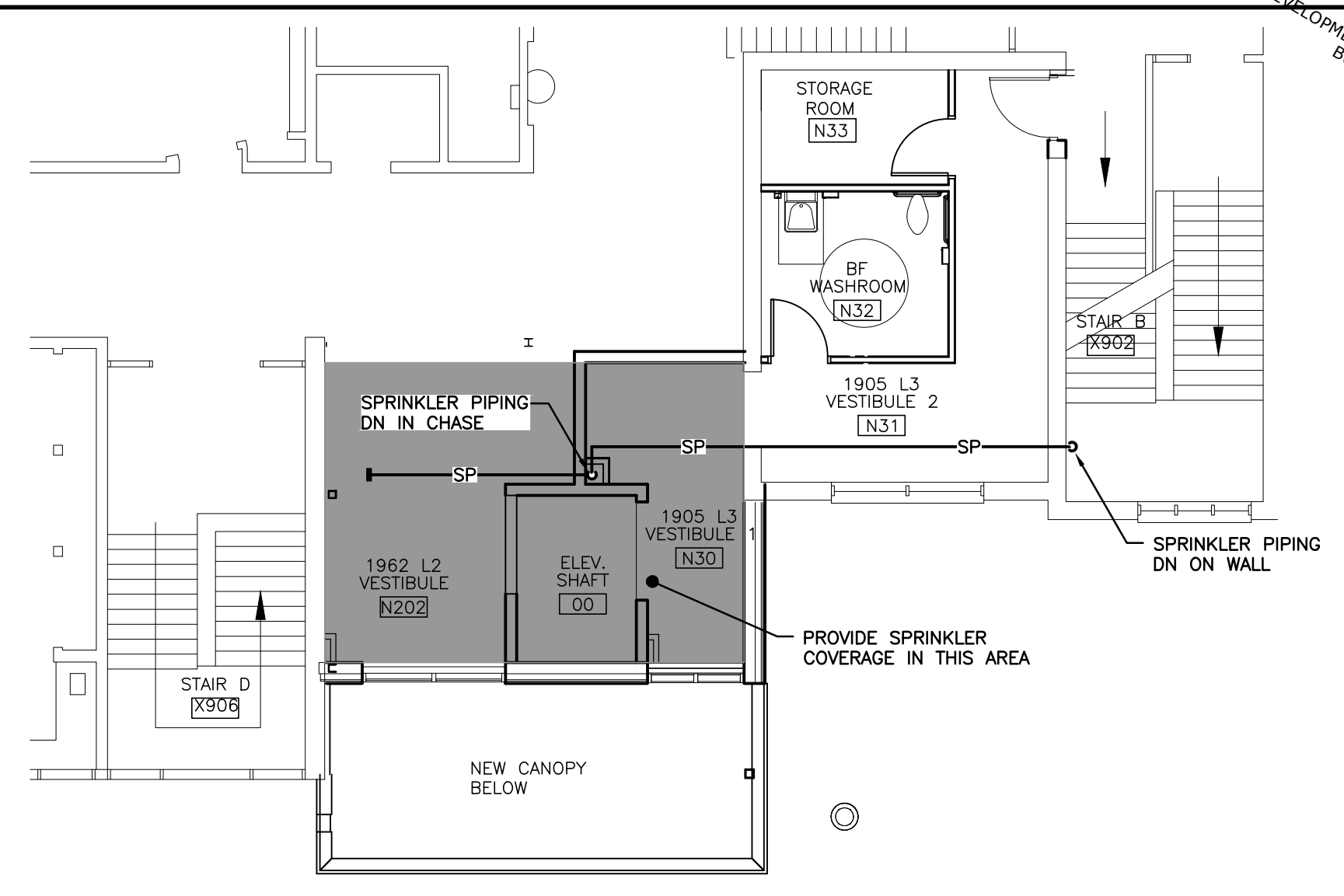
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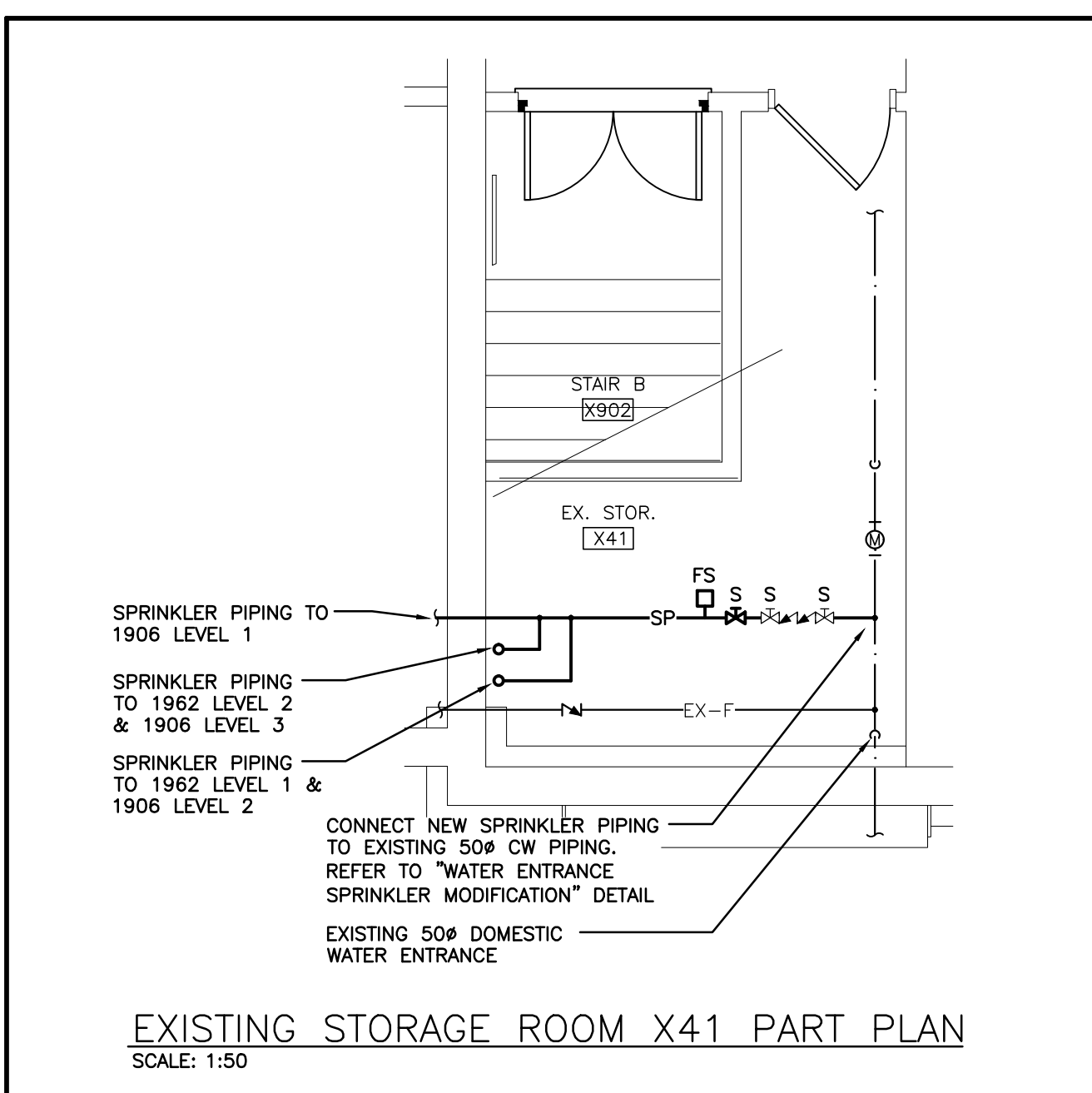
1906 LEVEL 1 FLOOR PLAN 'A' - FIRE PROTECTION
SCALE: 1:100



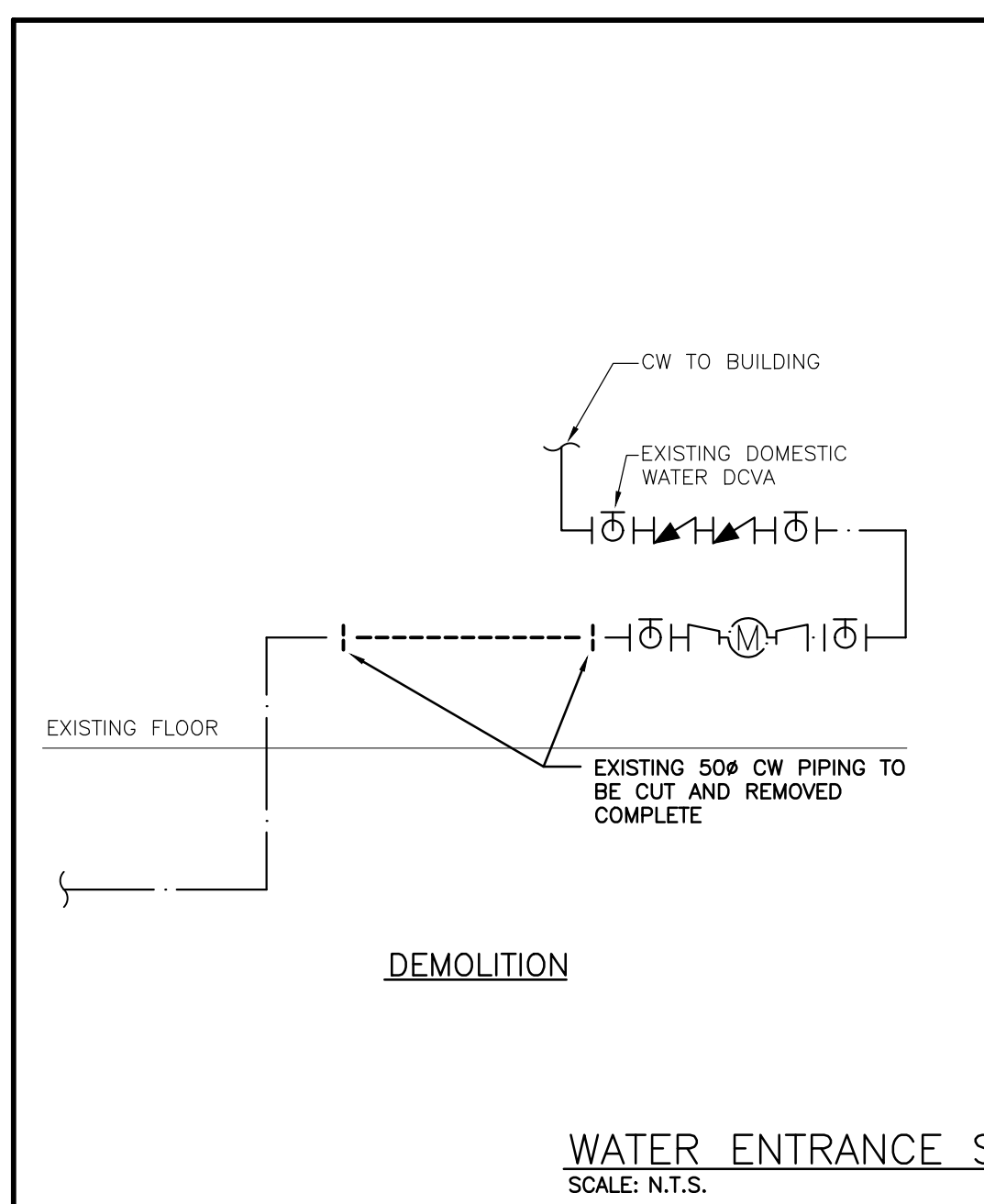
1906 LEVEL 1 & 1962 LEVEL 2 FLOOR PLAN 'A' - FIRE PROTECTION
SCALE: 1:100



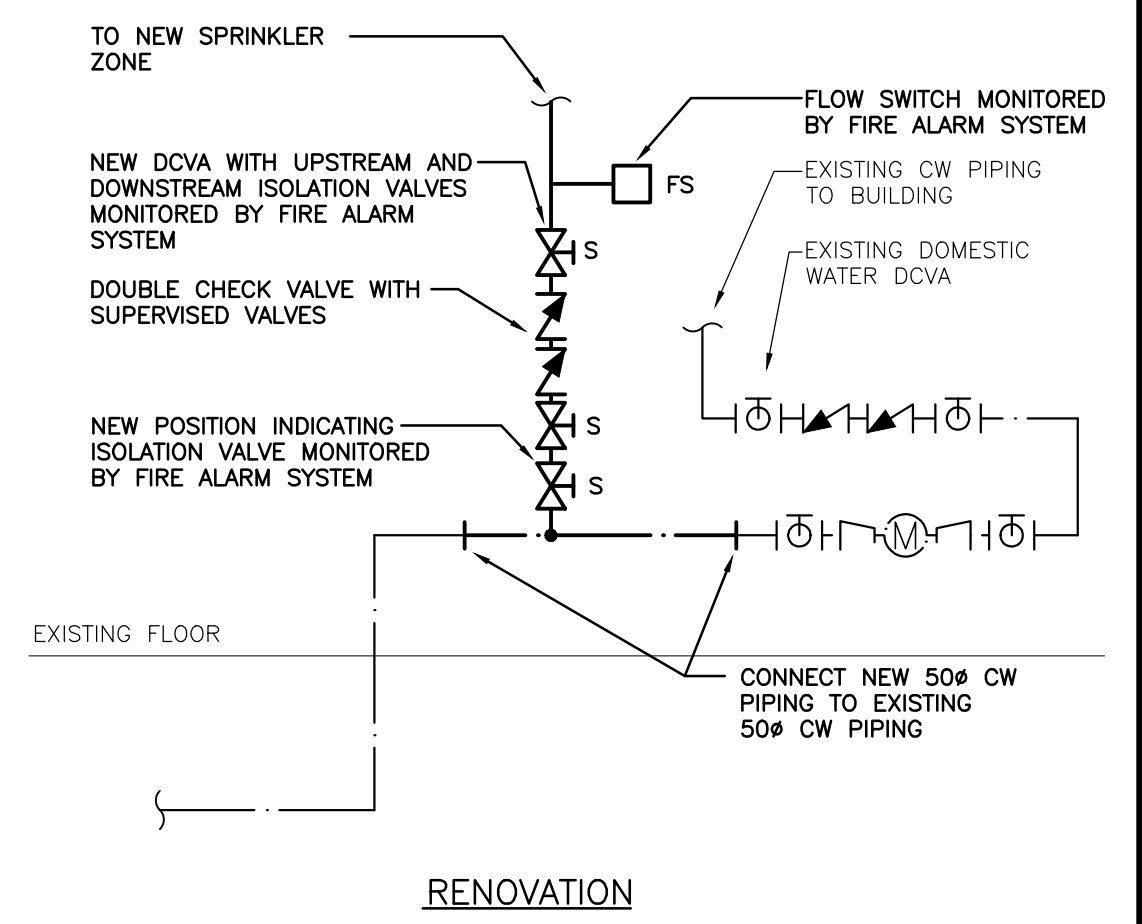
1962 LEVEL 2 & 1906 LEVEL 3 FLOOR PLAN 'A' - FIRE PROTECTION
SCALE: 1:100



EXISTING STORAGE ROOM X41 PART PLAN
SCALE: 1:50

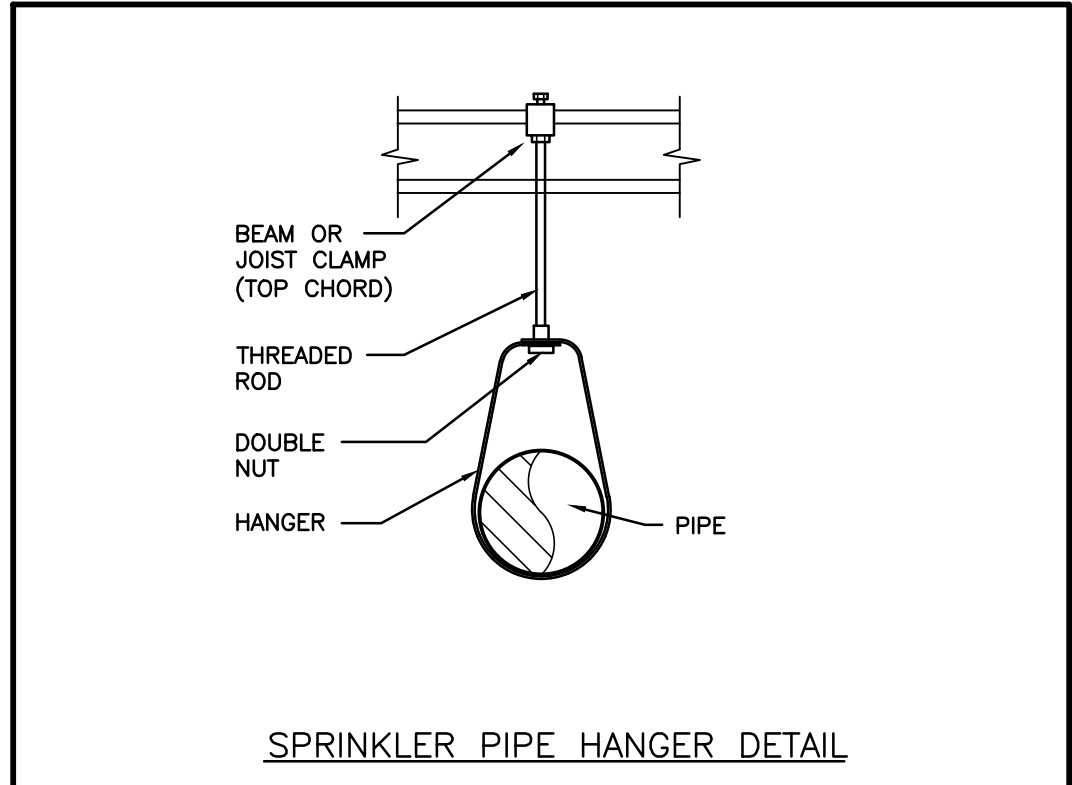


WATER ENTRANCE SPRINKLER MODIFICATION
SCALE: N.T.S.



GENERAL SPRINKLER NOTES

- SUBMIT PRELIMINARY DESIGN & HYDRAULIC CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER, AND MANUFACTURERS' PRODUCT SHEETS FOR SHOP DRAWING SUBMISSION AS SPECIFIED PRIOR TO COMMENCING WORK.
- ENSURE DESIGN MEETS OR EXCEEDS PRESENT NFPA 13 STANDARDS. ENSURE SPRINKLER SYSTEMS ARE INSTALLED TO NFPA 13 STANDARDS. UPON COMPLETION, SPRINKLER CONTRACTOR TO PROVIDE REPRODUCIBLE DRAWING (AT 1=100 SCALE) AND HYDRAULIC CALCULATIONS OF AS-BUILT CONDITION.
- SPRINKLER CONTRACTOR'S 'PROFESSIONAL ENGINEER' TO PROVIDE O.B.C. AND NFPA REQUIRED INSPECTION AND CERTIFICATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN.
- PROVIDE SPRINKLER HEAD TYPES AS FOLLOWS:
 - PROVIDE UPRIGHT HEADS WITHIN 12" OF EXPOSED DECK THROUGHOUT EXPOSED STRUCTURE AREAS, PROVIDE HEAD GUARDS IN AREAS WHERE HEADS ARE BELOW 8'-0" & STORAGE ROOMS.
 - PROVIDE CONCEALED PENDENT HEADS IN CEILINGS OF UNSUPERVISED AREAS (CORRIDORS, CHANGE ROOMS AND WASHROOMS). COVER PLATE FINISH SELECTED BY CONSULTANT.
 - PROVIDE CONCEALED HEADS IN ALL OTHER CEILING AREAS OF SUPERVISED AREAS (CLASSROOMS, OFFICES, SEMINAR ROOMS, etc.). COVER PLATE FINISH SELECTED BY CONSULTANT.
- SPRINKLER HEADS TO BE IN CENTRELINE OF CEILING TILE. MINIMUM 150mm (6") FROM EDGE.
- FINAL NUMBER AND LOCATION OF SPRINKLER HEADS TO BE DETERMINED BY CONTRACTOR'S HYDRAULIC CALCULATIONS AND APPROVED DRAWINGS.
- SPRINKLER PIPING TO BE COORDINATED WITH OTHER SERVICES PRIOR TO INSTALLATION.
- COORDINATE LOCATION OF INSPECTOR'S TEST CONNECTION WITH CONSULTANT PRIOR TO INSTALLATION.
- PROVIDE SPRINKLER HEADS UNDER ALL DUCTWORK AND EQUIPMENT OVER 1200mm WIDE.
- COMMISSIONING OF INTEGRATED TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEM.
 - SPRINKLER CONTRACTOR TO PROVIDE SERVICES WITH THE FIRE COMMISSIONING AGENT (FCA) TO MEET THEIR REQUIREMENTS OF ADMINISTRATION, VERIFICATION, AND FINAL SIGNOFF TO THE LOCAL AUTHORITIES AND CONSULTANT. THE FCA IS BEING RETAINED BY THE ELECTRICAL CONTRACTOR, HOWEVER, THIS CONTRACTOR'S WORK TO SATISFY THE FCA REQUIREMENTS SHALL BE INCLUDED IN THE TENDER PRICE.
 - CHECK/TEST: MOVEMENT OF ALL VALVES, CREATE WATER FLOW AT ALL DEVICES TO VERIFY DETECTION AT FIRE ALARM PANEL, OPERATION OF ALL PUMPS &/OR COMPRESSORS.
 - PERFORM ALL WORK IN ACCORDANCE WITH NFPA 13.
 - RETURN SPRINKLER/STANDPIPE SYSTEM TO NORMAL OPERATION ON COMPLETION OF TESTING.



SPRINKLER PIPE HANGER DETAIL

RECEIVED
Nov 01 2023
DEVELOPMENT SERVICES DEPT.

NO.	DATE	PARTICULAR
1	04/14/2022	COORDINATION SET
2	09/08/2022	COORDINATION SET
3	11/24/2022	COORDINATION SET
4	01/13/2023	COORDINATION SET
5	02/02/2023	ISSUED FOR PERMIT
6	04/04/2023	ISSUED FOR TENDER
7	06/23/2023	ISSUED FOR DEMO PERMIT
8	10/11/2023	ISSUED FOR BUILDING PERMIT
9	11/01/2023	RE-ISSUED FOR BUILDING PERMIT

NOTES:
The contractor shall verify all dimensions and report all errors and discrepancies to the Consultant before commencement of the work.
The drawings show general arrangement of services. Follow as closely as actual building construction will permit. Obtain approval for relocation of service from Consultant before commencement of the work.
The drawings do not indicate all offsets fitting and accessories which may be required. Provide the same to meet the required conditions.
Drawings and specifications, etc., prepared and issued by the consultant are the property of the consultant and must be returned at the completion of the project. These documents are not to be duplicated or copied without the consent of the Consultant.
Do not scale the drawing.
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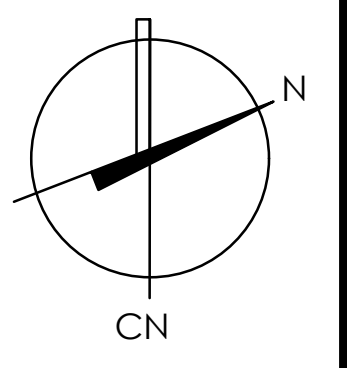
All dimensions and materials must be checked and verified by the General Contractor.
Basis of design of drawings and calculations are based on current code requirements and standards in effect at the time of issue. The drawings shall be used only for the purpose intended without further permission of the Architect.

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ORIGINAL PAGE SIZE ARCH D - 24" X 36"



FIRE PROTECTION PLANS, DETAILS, AND SCHEMATIC