



Wallfacer Architecture Inc.

4711 Yonge Street Suite 801
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GENERAL NOTES:

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ISSUE

#	Date	Description	Dwn
2	2021-03-15	ISSUED FOR TENDER	RS
1	2021-02-01	ISSUED FOR REVIEW	ZA

PROJECT TITLE:

ULTRAMAR

794047 COUNTRY RD 124
SINGHAMPTON ON

REVISION

#	Date	Description	Dwn
2	2021-07-15	NOC #1	RS
1	2021-04-22	ADDENDUM #2	RS

DRAWING TITLE:

DRAWING LIST & LEGENDS

PRINT DATE: 2021/07/21 SCALE: AS NOTED

DRAWN BY: ZA/RS DRAWING NO:

CHECKED BY: RH

PROJECT NO: 20-XXXX

M1

PLUMBING & SANITARY LEGEND

	SANITARY BELOW GRADE / FLOOR SANITARY ABOVE GRADE / FLOOR		ROOM NUMBER (REFER TO ARCHITECTURAL DRAWINGS)
	STORM BELOW GRADE / FLOOR STORM ABOVE GRADE / FLOOR		REDUCE/ INCREASER UNION
	GREASE INTERCEPTOR REMOTE SUCTION LINE		BALL VALVE
	DOMESTIC COLD WATER		GATE VALVE
	DOMESTIC HOT WATER		CHECK VALVE (ARROW INDICATES DIRECTION OF FLOW)
	FILTERED COLD WATER LINE		DOUBLE CHECK VALVE ASSEMBLY (ARROW INDICATES FLOW DIRECTION)
	DOMESTIC HOT WATER @110 ° F HOT WATER RECIRCULATION LINE		DUAL CHECK VALVE
	PIPE DOWN		REDUCED PRESSURE B.F.P. (ARROW INDICATES FLOW DIRECTION)
	PIPE UP		GAS PIPING
	ROOF DRAIN		GAS VALVE
	ELECTRIC HEAT TRACING		WALL HYDRANT
	HUB DRAIN		TEE FITTING
	FLOOR DRAIN		LINE CLEANOUT
	FUNNEL FLOOR DRAIN		FLOOR CLEAN OUT
	DRY-TYPED SIDEWALL SPRINKLER HEAD		NOTE BUBBLE INDICATING THAT A DRAWING NOTE APPLIES. REFER TO NOTES
	DRY-TYPE PENDANT SPRINKLER HEAD		THERMOSTAT MIXING VALVE
	SEMI-RECESSED SPRINKLER HEAD		WATER METER
	UPRIGHT SPRINKLER HEAD		TRAP PRIMER
	PEX SUPPLY PIPING EQUIPMENT CONNECTION POINT, FW-1: FEED MANIFOLD (15mm UNO)		FILTRATION SYSTEM
	PEX SUPPLY PIPING MANIFOLD OR BUILT UP DISTRIBUTION POINT FW-1: FILTERED WATER #1 (ETC)		MULTI-PURPOSE ABC DRY CHEMICAL FIRE EXTINGUISHER ZA:10BC RATING
	PEX SUPPLY PIPING MANIFOLD OR BUILT UP DISTRIBUTION POINT FW-1: FILTERED WATER #1 (ETC)		CONNECT TO EXISTING

NOTE: NOT ALL SYMBOLS APPLY. CONTRACTOR TO REFER TO FLOOR PLANS.

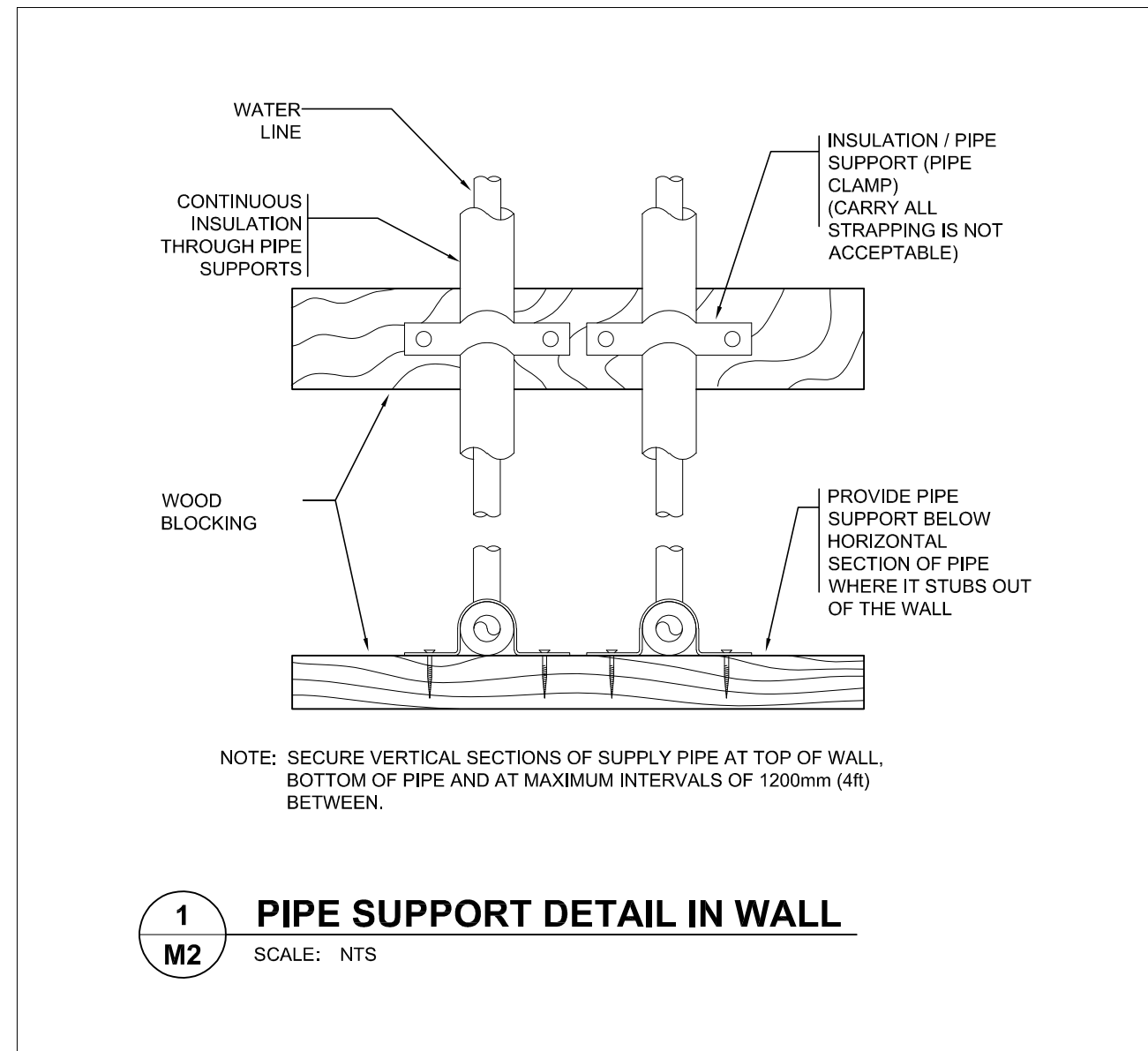
HVAC LEGEND

	SQUARE SUPPLY AIR DUCT UP		VOLUME DAMPER
	SQUARE SUPPLY AIR DUCT DOWN		BACK DRAFT DAMPER
	SQUARE RETURN OR EXHAUST AIR DUCT UP		SPLITTER DAMPER
	SQUARE RETURN OR EXHAUST AIR DUCT DOWN		FIRE DAMPER
	ROUND RETURN OR EXHAUST AIR DUCT UP		FIRE FLAP
	ROUND RETURN OR EXHAUST AIR DUCT DOWN		UNDER CUT DOOR 19mm
	FLEXIBLE DUCT		SUPPLY AIR A. INDICATES TYPE OF DIFFUSER. B. INDICATES SIZE OF DIFFUSER & NECK (1500 NECK) C. INDICATES CAPACITY FOR EACH
	NEW RIGID DUCT		RETURN AIR A. INDICATES TYPE OF GRILLES/REGISTERS B. INDICATES SIZE OF GRILLES/REGISTERS
	EXISTING RIGID DUCT		OPPOSED BLADE DAMPER
	BAFFLE ONE SIDE OF DIFFUSER		TEMPERATURE SENSOR
	THERMOSTAT (ELECTRIC OR PNEUMATIC) G-GUARD		CONTROL DAMPER
	HUMIDISTAT		ROOM NUMBER (REFER TO ARCHITECTURAL DRAWINGS)
	CO2 SENSOR		NOTE BUBBLE INDICATING THAT A DRAWING NOTE APPLIES. REFER TO NOTES
	SPRINKLER HEAD - PENDANT / SIDEWALL		SPRINKLER HEAD - UPRIGHT / CONCEALED

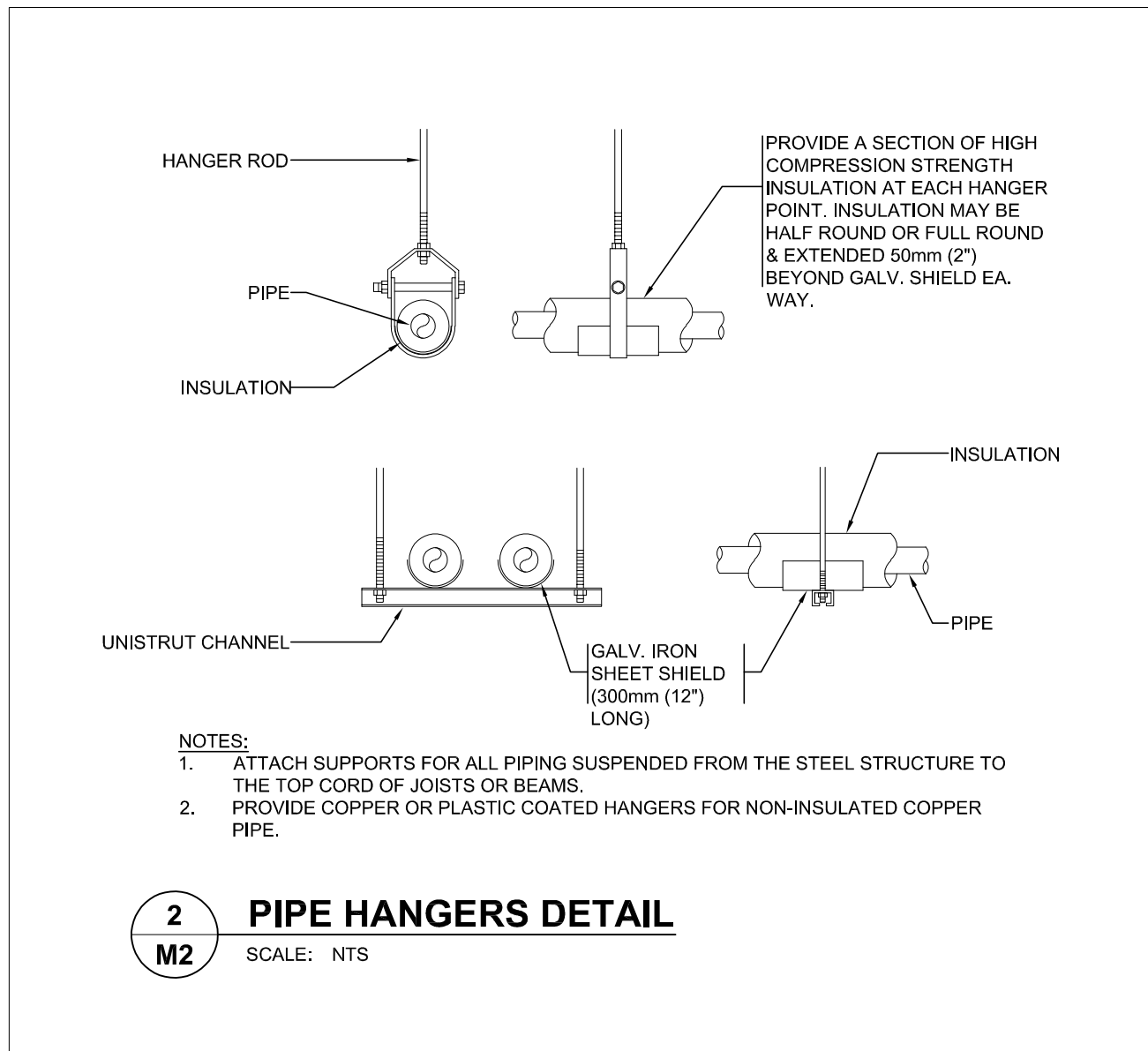
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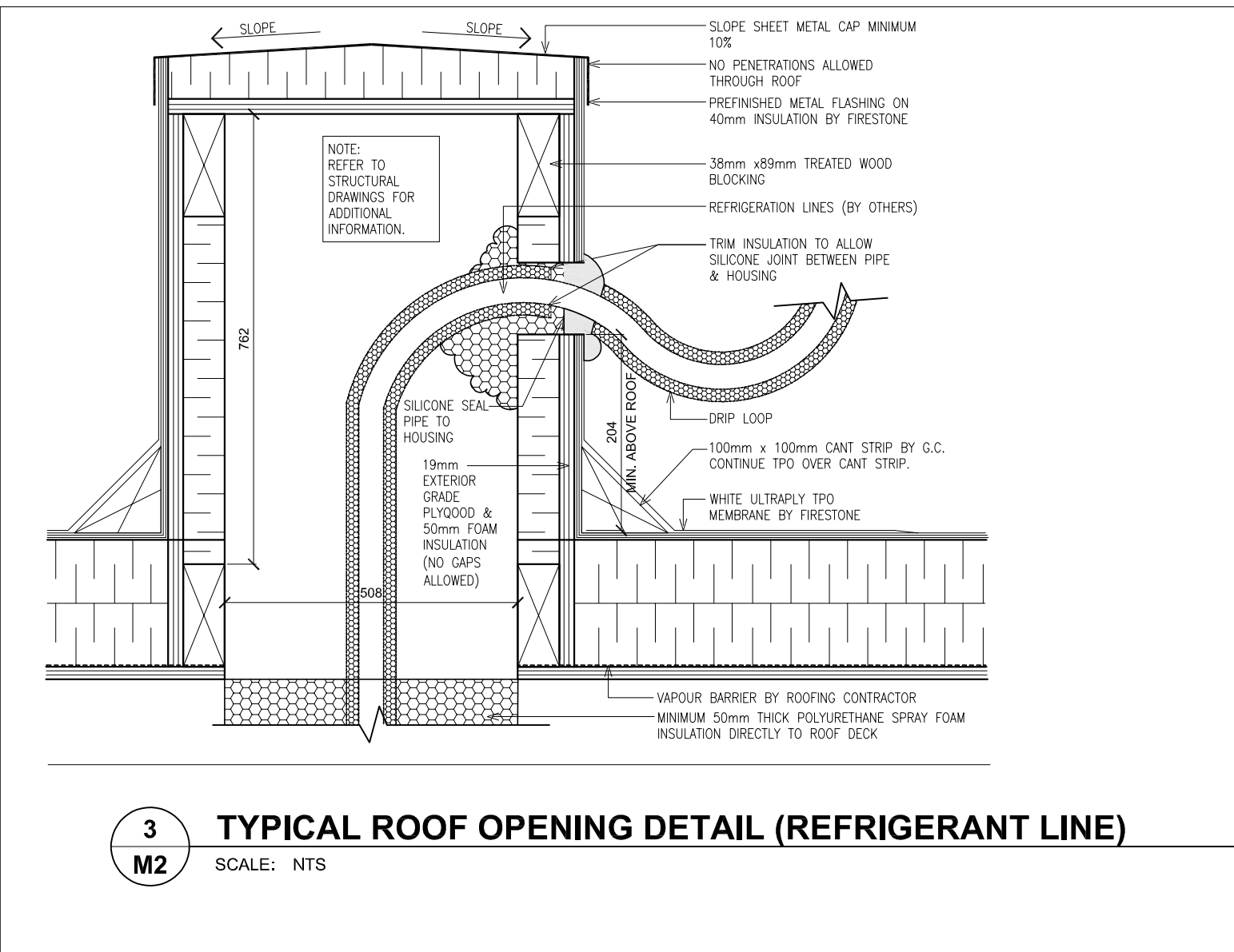
DRAWING NO.	DRAWING NAME
M1	DRAWING LIST AND MECHANICAL LEGENDS
M2	DETAILS
M3.0	PLUMBING & DRAINAGE DEMOLITION LAYOUT
M3.1	PLUMBING PLAN
M3.2	SANITARY PLAN
M4.0	HVAC DEMOLITION LAYOUT
M4.1	HVAC LAYOUT
M5	ROOF PLAN
M6	SCHEDULES
M7	MECHANICAL SPECIFICATIONS



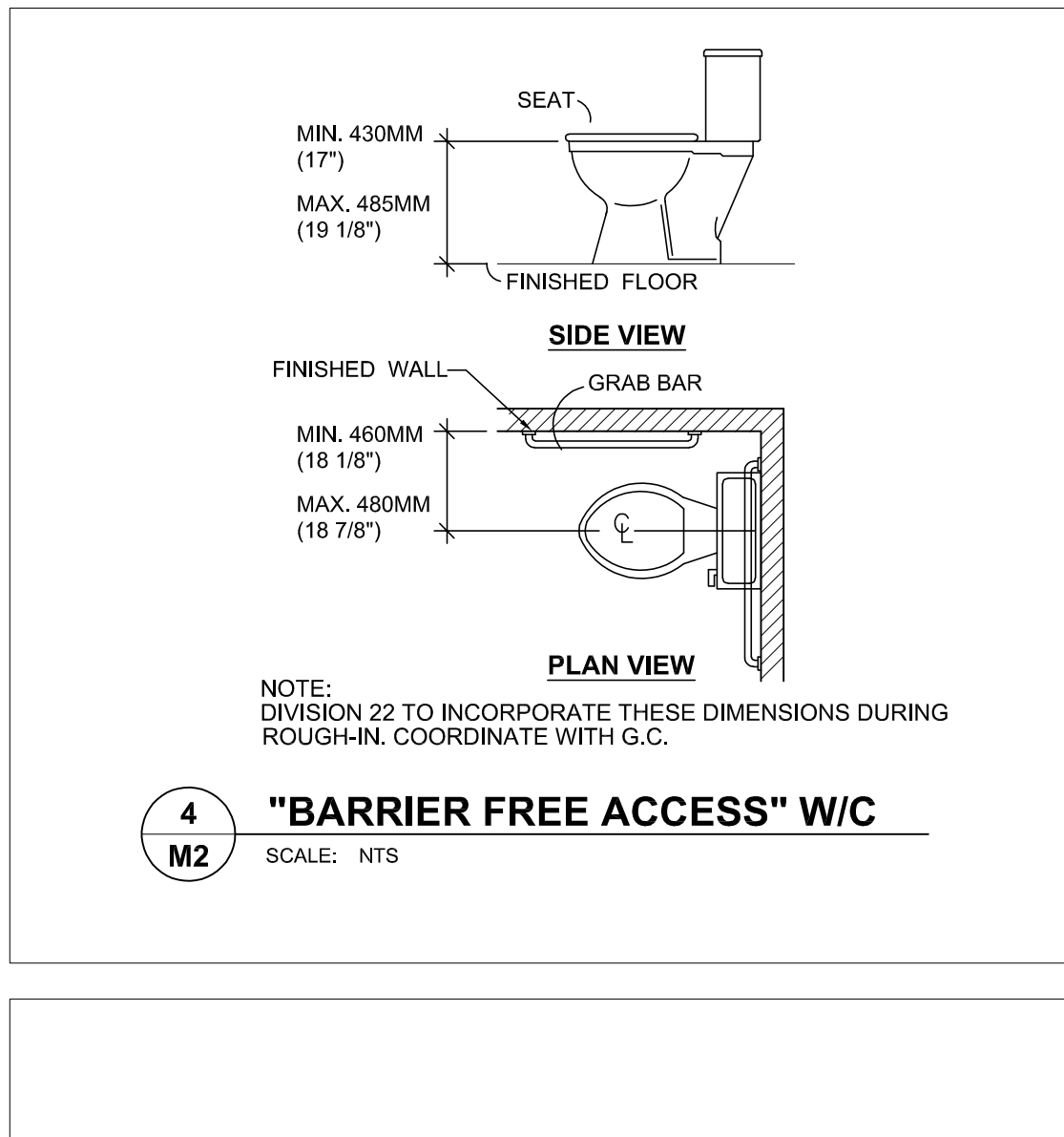
1 PIPE SUPPORT DETAIL IN WALL
SCALE: NTS



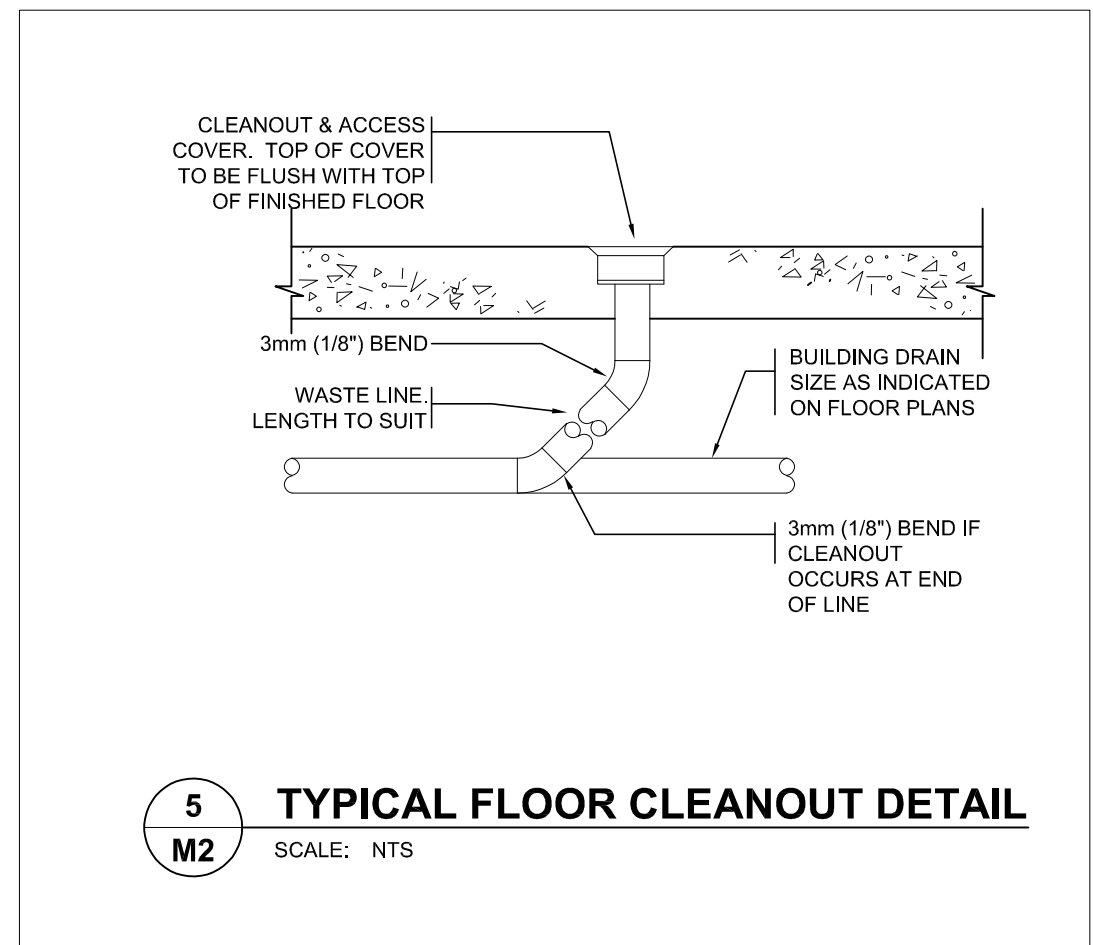
2 PIPE HANGERS DETAIL
SCALE: NTS



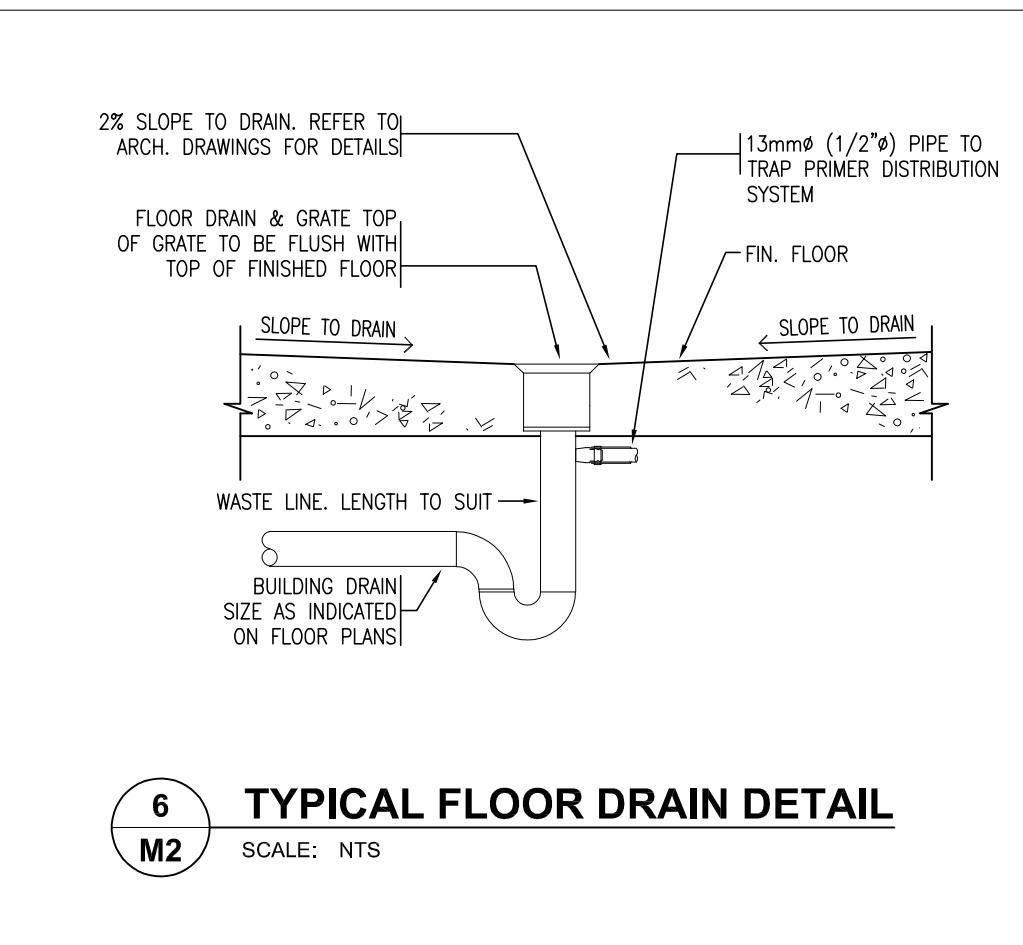
3 TYPICAL ROOF OPENING DETAIL (REFRIGERANT LINE)
SCALE: NTS



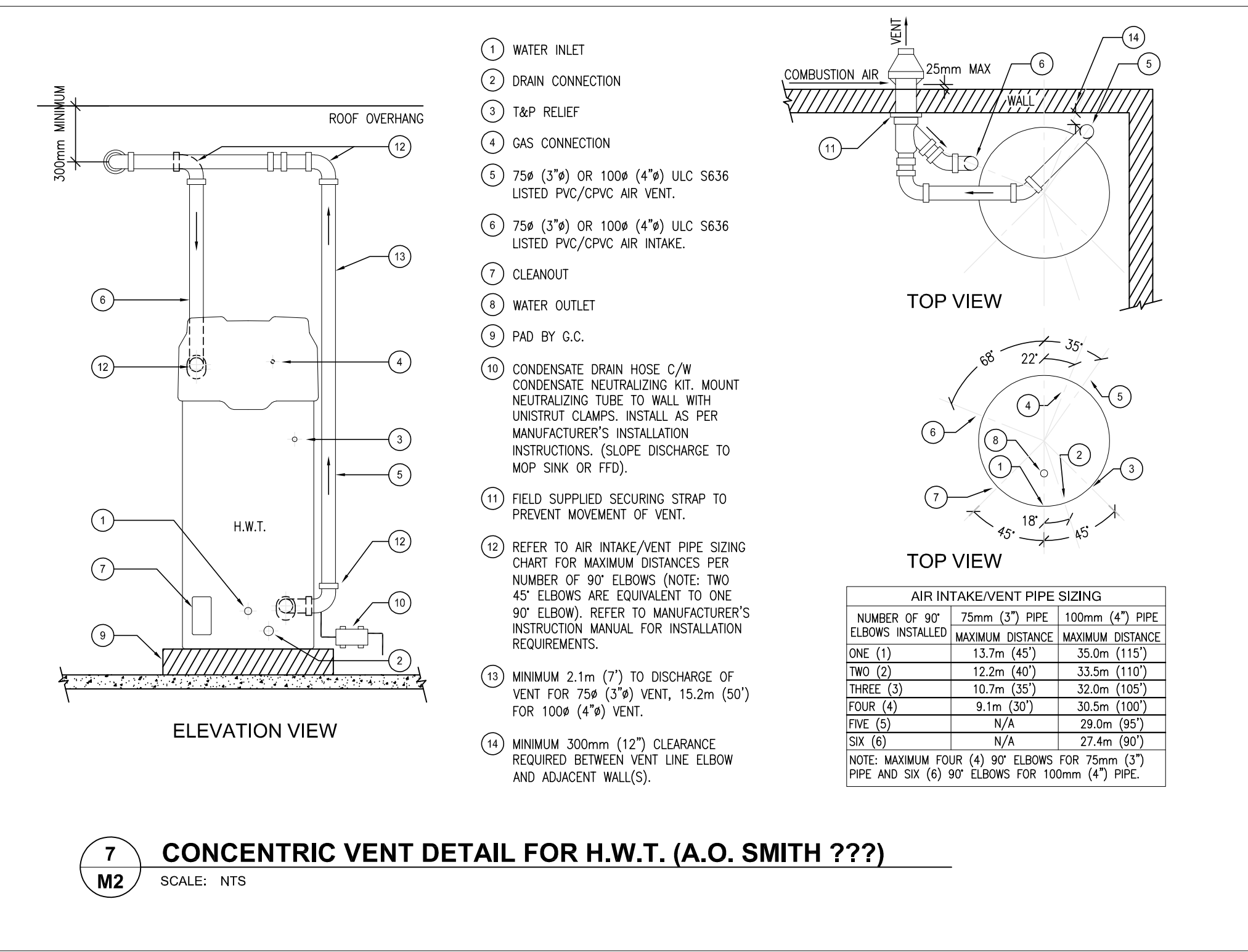
4 "BARRIER FREE ACCESS" W/C
SCALE: NTS



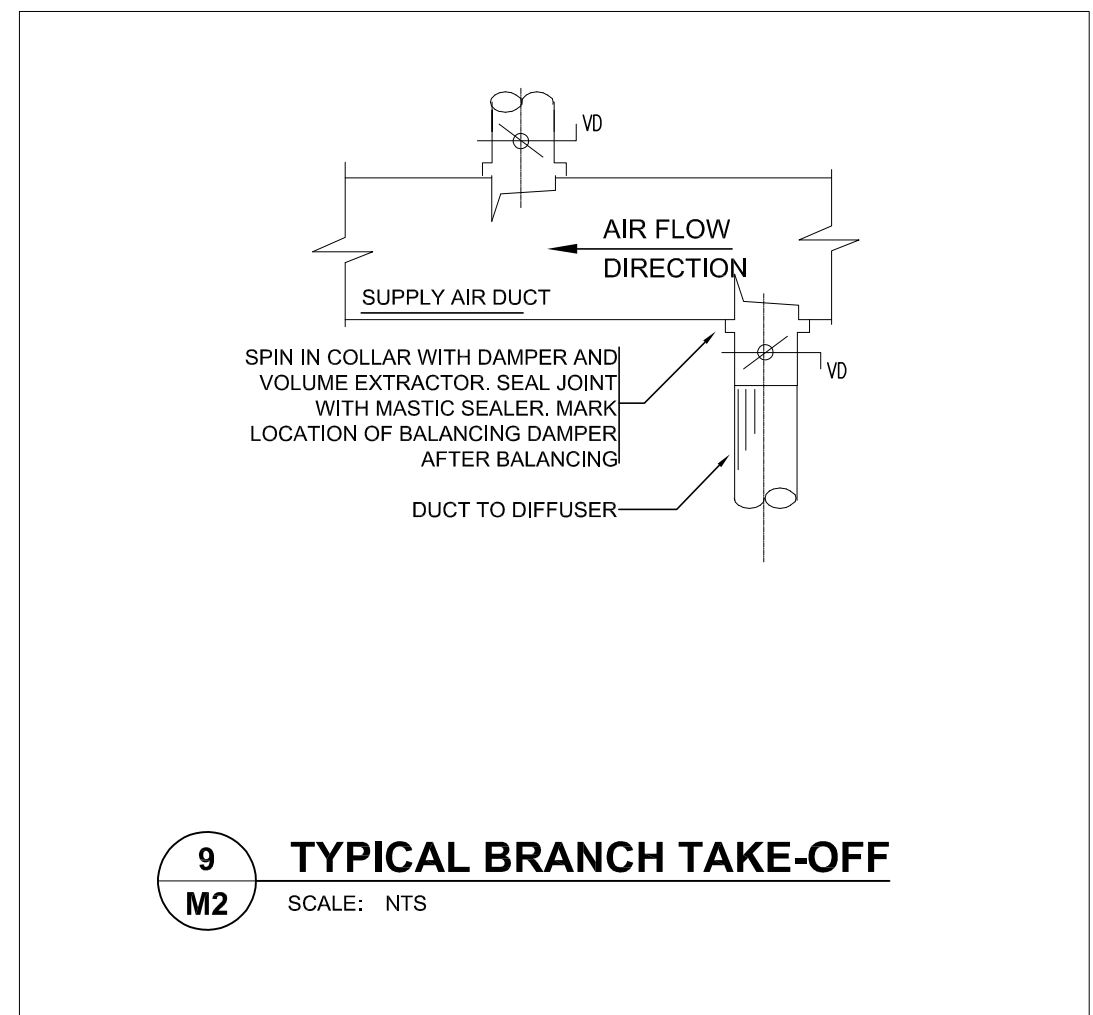
5 TYPICAL FLOOR CLEANOUT DETAIL
SCALE: NTS



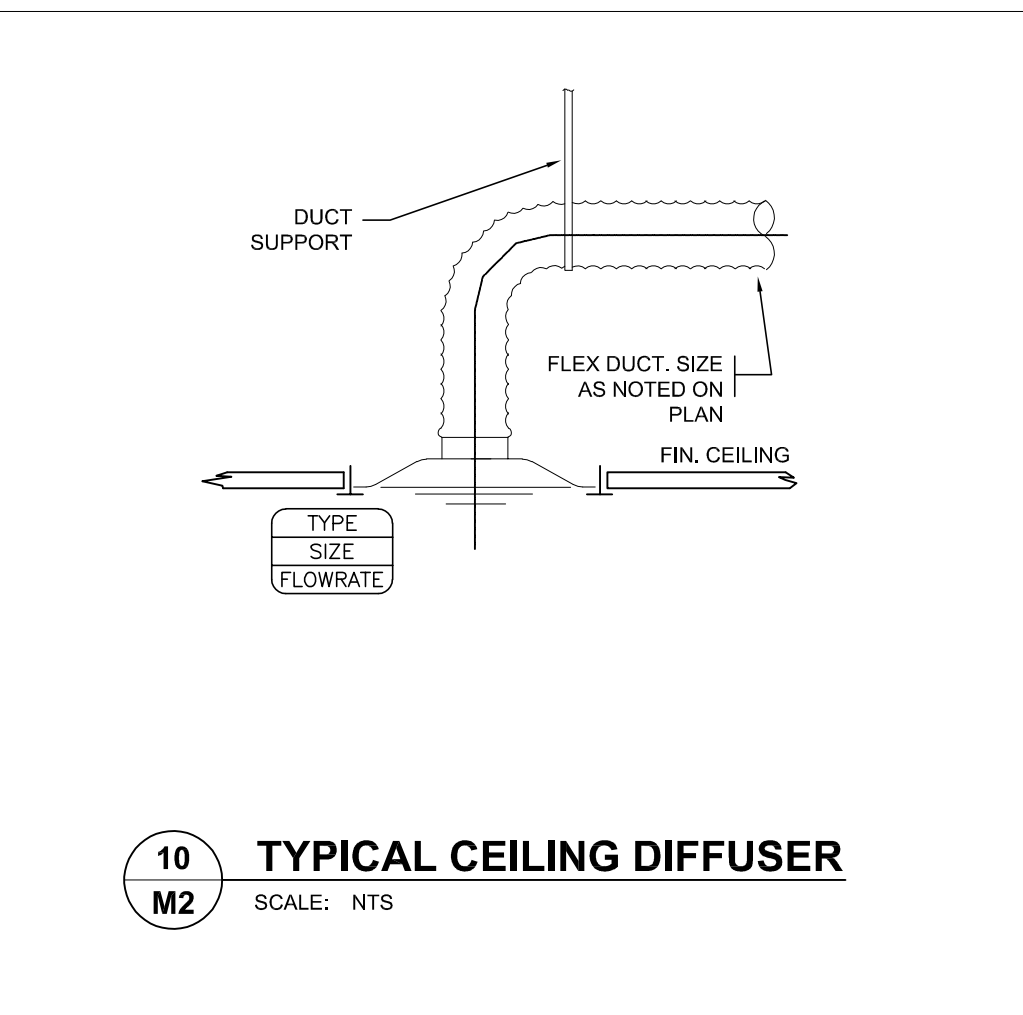
6 TYPICAL FLOOR DRAIN DETAIL
SCALE: NTS



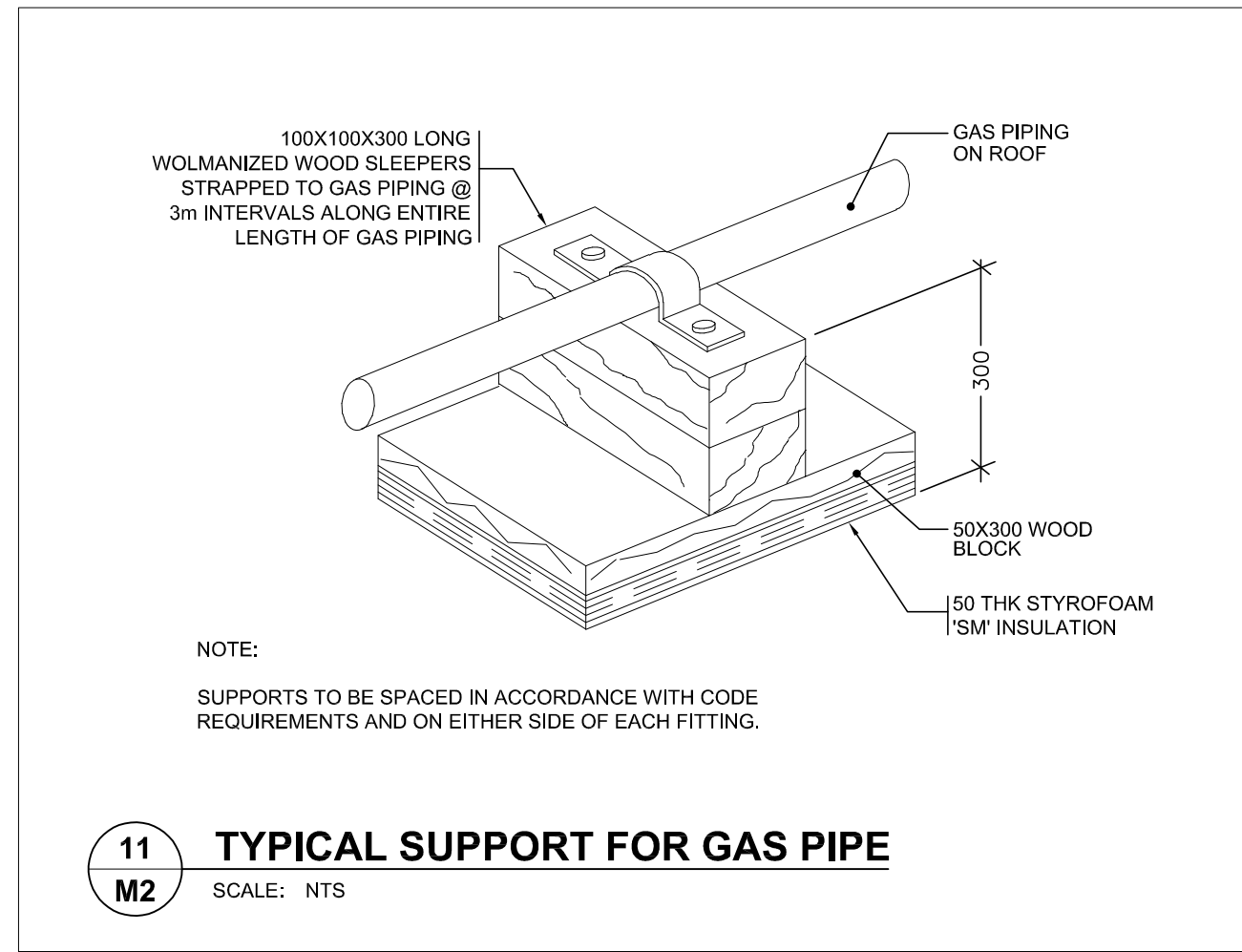
7 CONCENTRIC VENT DETAIL FOR H.W.T. (A.O. SMITH ???)
SCALE: NTS



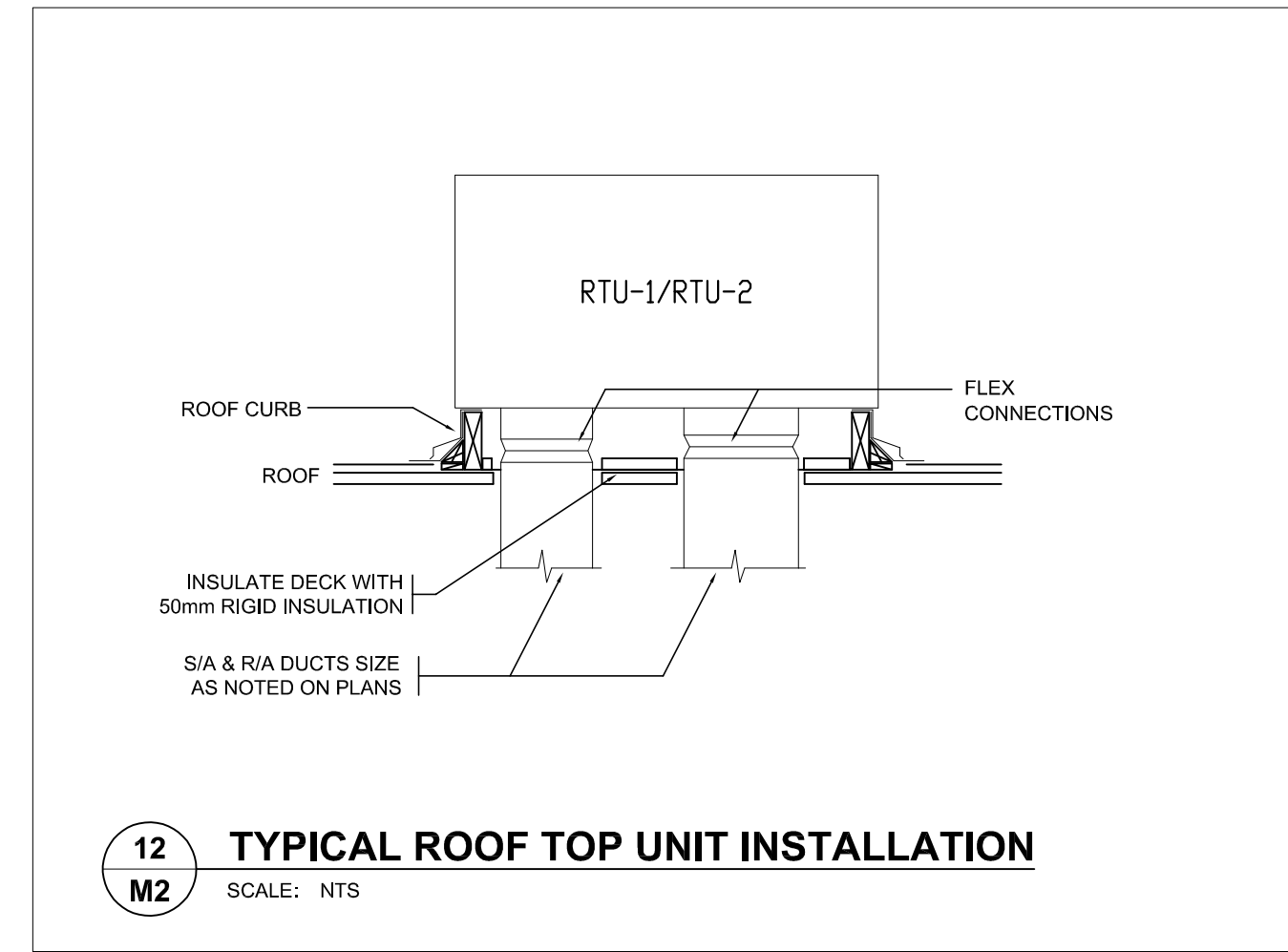
9 TYPICAL BRANCH TAKE-OFF
SCALE: NTS



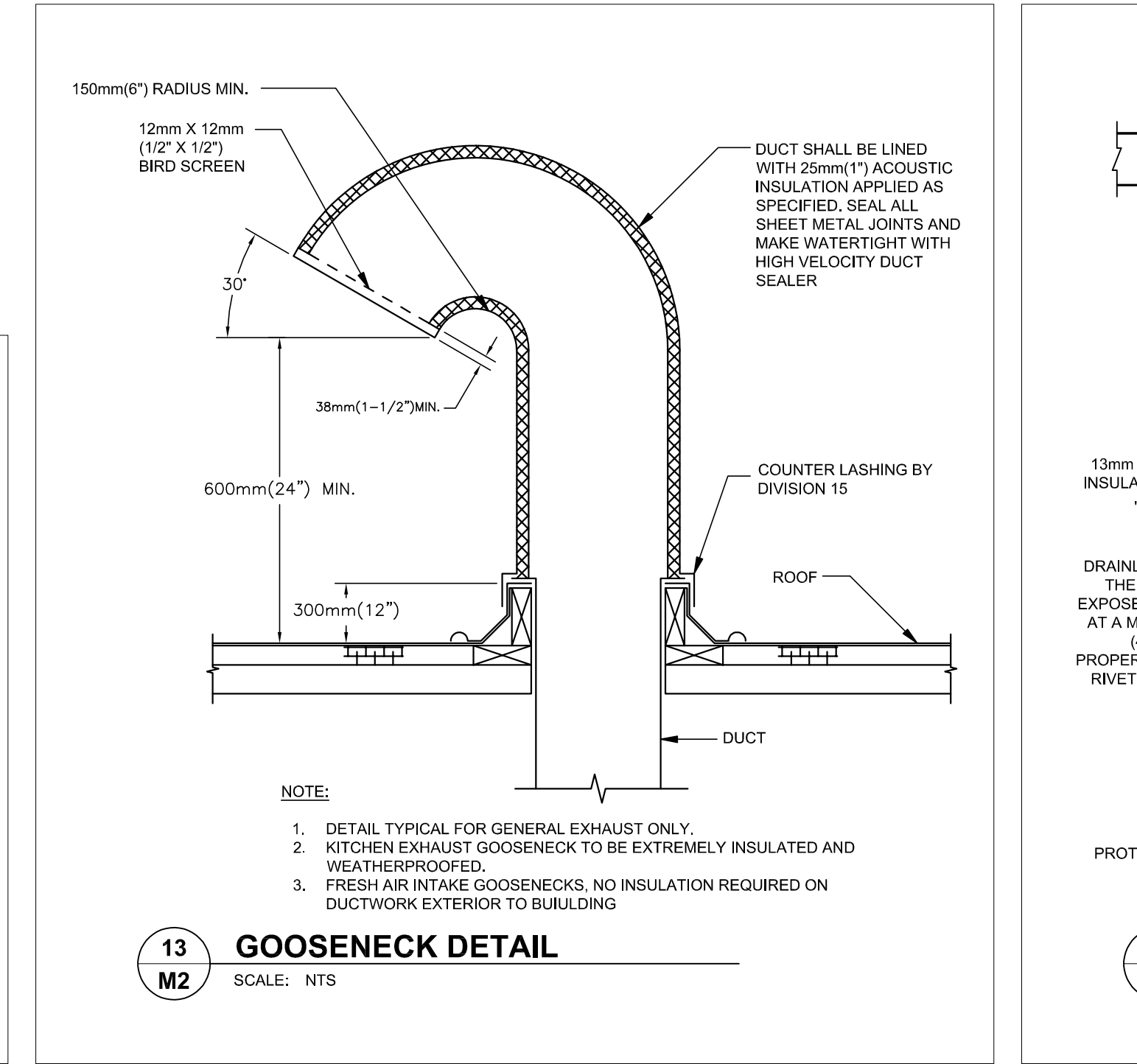
10 TYPICAL CEILING DIFFUSER
SCALE: NTS



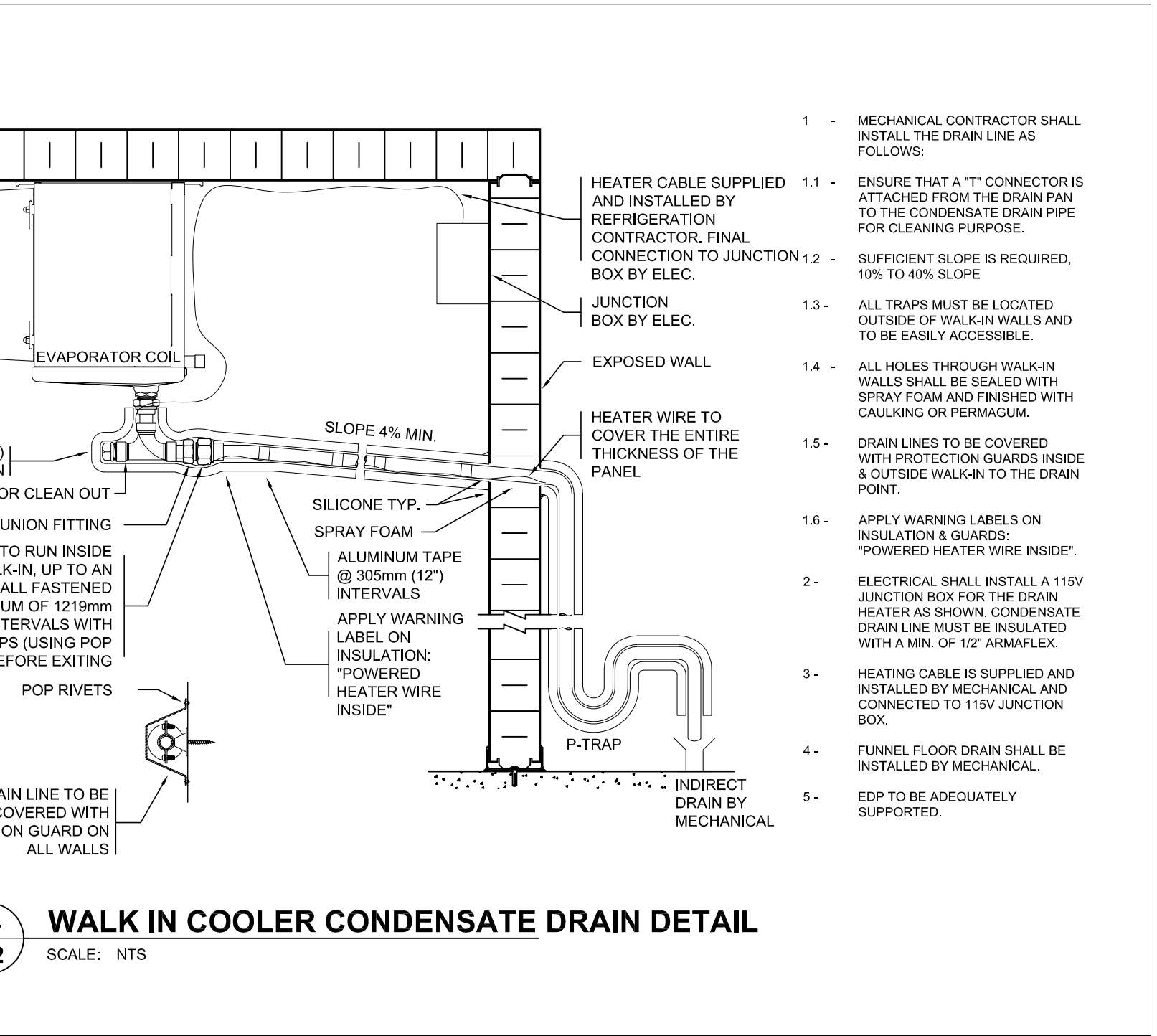
11 TYPICAL SUPPORT FOR GAS PIPE
SCALE: NTS



12 TYPICAL ROOF TOP UNIT INSTALLATION
SCALE: NTS



13 GOOSENECK DETAIL
SCALE: NTS



14 WALK IN COOLER CONDENSATE DRAIN DETAIL
SCALE: NTS

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SINGHAMPTON ON

REVISION

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1	2021-04-22	ADDENDUM #2	RS

DRAWING TITLE:

DETAILS

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M2

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DRAWING TITLE:

PLUMBING & DRAINAGE
DEMOLITION LAYOUT

PRINT DATE: 2021/07/21 SCALE: AS NOTED

DRAWN BY: ZA/RS DRAWING NO:

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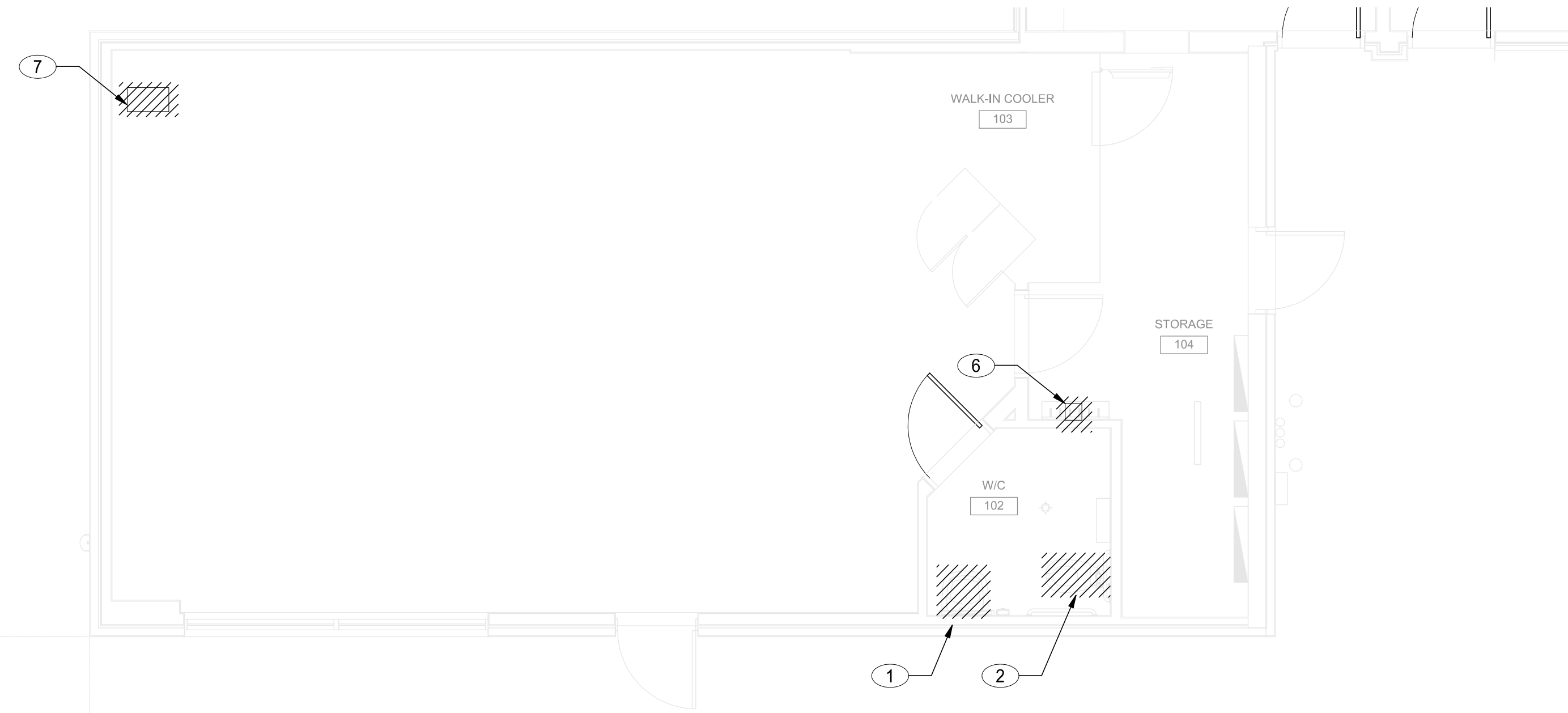
PROJECT NO: 20-XXXX **M3.0**

DRAWING NOTES

- EXISTING LAVATORY TO BE REMOVED COMPLETE WITH ALL ASSOCIATED APPURTENANCES; DOMESTIC HOT AND COLD WATER SUPPLY LINES, SANITARY LINE, VENT LINE, ETC. TO BE REMOVED IN THEIR ENTIRETY.
- EXISTING WATER CLOSET TO BE REMOVED COMPLETE WITH ALL ASSOCIATED APPURTENANCES; DOMESTIC COLD WATER SUPPLY LINE, SANITARY LINE, VENT LINE, ETC. TO BE REMOVED IN THEIR ENTIRETY.
- EXISTING SHOWER HEAD AND SHOWER DRAIN TO BE REMOVED COMPLETE WITH ALL ASSOCIATED APPURTENANCES; DOMESTIC HOT AND COLD WATER SUPPLY LINES, SANITARY LINE, VENT LINE, ETC. TO BE REMOVED IN THEIR ENTIRETY.
- EXISTING HOT WATER TANK TO BE REMOVED COMPLETE WITH ALL ASSOCIATED APPURTENANCES; DOMESTIC HOT AND COLD WATER SUPPLY LINES, RELIEF DRAIN LINE, VENT LINE, GAS LINE, ETC. TO BE REMOVED IN THEIR ENTIRETY.
- EXISTING WATER FILTRATION AND TREATMENT TO BE REMOVED COMPLETE WITH ALL ASSOCIATED APPURTENANCES; DOMESTIC COLD WATER SUPPLY LINE, SANITARY LINE, VENT LINE, ETC. TO BE REMOVED IN THEIR ENTIRETY.
- EXISTING JANITOR FAUCET TO BE REMOVED COMPLETE WITH ALL ASSOCIATED APPURTENANCES; DOMESTIC COLD WATER SUPPLY LINE, SANITARY LINE, VENT LINE, ETC. TO BE REMOVED IN THEIR ENTIRETY.
- EXISTING PLUMBING DISTRIBUTION SERVING COFFEE MACHINE TO BE REMOVED
- PRICE IN TENDER FOR THE REMOVAL OF SIX (6) WASHROOMS IN THE EXISTING MOTEL AREA; WATER CLOSET, LAVATORY, SHOWER. REMOVE ALL ASSOCIATED APPURTENANCES; DOMESTIC HOT AND COLD WATER SUPPLY LINES, SANITARY LINES, VENT LINES, ETC. IN THEIR ENTIRETY.
- REMOVE EXISTING PLUMBING CONNECTIONS SERVING THE CLOTHES WASHER IN THEIR ENTIRETY, DOMESTIC HOT AND COLD WATER CONNECTIONS, DRAIN LINE, VENT LINE, ETC.

GENERAL NOTES

- GENERAL NOTE - ALL DIMENSIONS ARE SHOWN IN MILLIMETERS ONLY.
- ALL PIPING; SANITARY, VENT, DOMESTIC WATER, GAS, ETC AND ANY EQUIPMENT IN THE BASEMENT LEVEL BELOW TO BE REMOVED IN THEIR ENTIRETY



1 CSTORE PLUMBING DEMO PLAN
M3.0 SCALE: 1:50



2 MOTEL PLUMBING DEMO PLAN
M3.0 SCALE: 1:50

PLUMBING NOTED DEVICES

- CONNECT NEW 380 DOMESTIC COLD WATER LINE TO EXISTING CAPPED CONNECTION IN THIS AREA AND EXTEND UP TO CEILING SPACE AND AS INDICATED.
- SUPPLY AND INSTALL NEW DOMESTIC HOT WATER TANK COMPLETE WITH ALL ASSOCIATED APPURTENANCES INSTALL ON SHELF SUPPORTED FROM WALL, PROVIDE 250 DOMESTIC COLD WATER LINE DOWN TO HOT WATER HEATER AND 250 DOMESTIC HOT WATER LINE UP FROM HOT WATER HEATER TO HIGH LEVEL. REFER TO DETAIL ON DRAWING M2
- SUPPLY AND INSTALL NEW FLOOR MOUNTED FLUSH TANK WATER CLOSET WC-1, PROVIDE 130 DOMESTIC COLD WATER LINE DOWN IN WALL TO SERVE NEW WATER CLOSET.
- SUPPLY AND INSTALL NEW SHOWER HEAD, PROVIDE 130 DOMESTIC HOT AND COLD WATER LINES COMPLETE WITH THERMOSTATIC MIXING VALVE TO SERVE NEW SHOWER HEAD.
- SUPPLY AND INSTALL NEW WALL MOUNTED LAVATORY COMPLETE WITH FIXTURE CARRIER, PROVIDE 130 DOMESTIC HOT AND COLD WATER LINES DOWN IN WALL TO SERVE NEW LAVATORY FAUCET.
- SUPPLY AND INSTALL NEW SINK, PROVIDE 130 DOMESTIC HOT AND COLD WATER LINES DOWN IN WALL TO SERVE THE NEW SINK AND EXTEND 130 DOMESTIC HOT AND COLD WATER LINES IN WALL OVER TO NEW MOP SINK FAUCET.
- SUPPLY AND INSTALL NEW MOP SINK ON FLOOR, EXTEND NEW 130 DOMESTIC HOT AND COLD WATER LINES FROM SINK S-1 IN WALL TO SERVE NEW MOP SINK FAUCET.
- PROVIDE NEW 320 CAPPED AND VALVED DOMESTIC COLD WATER LINE IN CEILING SPACE TO SERVE FUTURE TENANT.

PLUMBING GENERAL NOTES

- GENERAL NOTE - ALL DIMENSIONS ARE SHOWN IN MILLIMETERS ONLY.
- GENERAL NOTE - DIVISION 22 TO PURGE AND FLUSH ALL LINES PRIOR TO HOOK UP.
- GENERAL NOTE - THERMOSTATIC MIXING VALVE TO BE MOUNTED BELOW SINK, SET FOR 43°C (110°F) AND CONNECT TO THE HOT WATER INLET OF THE FAUCET FOR ALL LAVATORY L-1, L-2 AND SHOWER HEADS SH-1.
- GENERAL NOTE - ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT, DEVICES AND/OR SERVICES SHALL BE INFILLED BY THE GENERAL CONTRACTOR. DIVISION 22 IS RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED TO SUIT THE INSTALLATION OF ANY NEW EQUIPMENT. ALL PATCHING SHALL BE WITH NEW MATERIALS TO SUIT EXISTING AND NEW CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
- GENERAL NOTE - PROVIDE WOOD BLOCKING AS REQUIRED FOR FIXTURES AND PIPING.
- GENERAL NOTE - ALL WATER LINES AND ACCESS POINTS ON THE WALL SHOULD PROPERLY TAGGED AND LABELED.
- GENERAL NOTE - ALL DOMESTIC HOT, COLD AND RECIRC. PIPING TO BE INSULATED.



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DRAWING TITLE:

**PLUMBING PLAN
& NOTES**

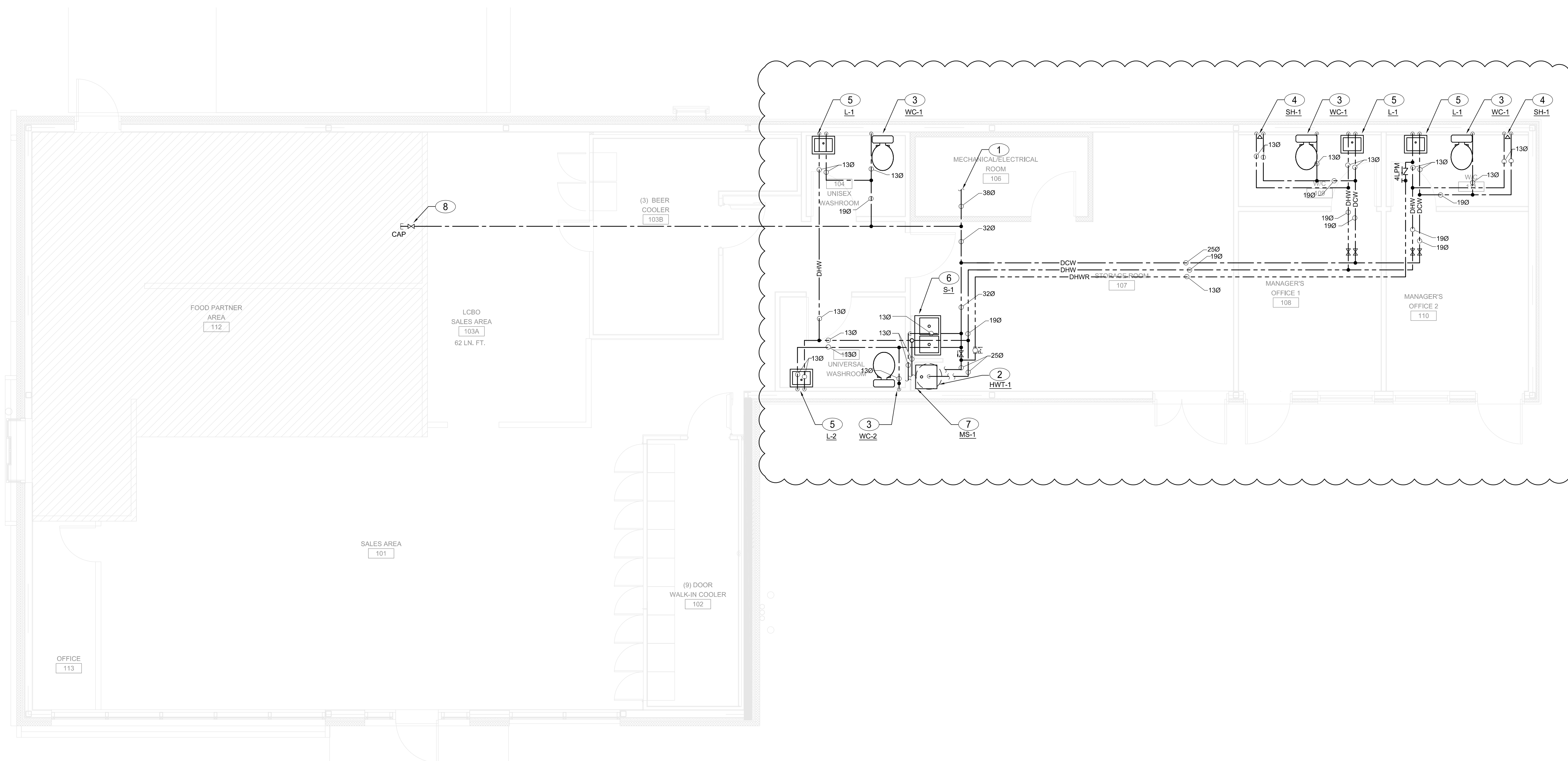
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M3.1





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SANITARY GENERAL NOTES

- LOCATION, SIZE, AND DIRECTION OF FLOW FOR SANITARY LINES SHOULD BE CONFIRMED BY THE CONTRACTOR BEFORE COMMENCING CONSTRUCTION. STATUS OF INVERTS SHOULD ALSO BE CHECKED.
- ALL NEW DRAIN AND VENT LINES IN UNCONDITIONED SPACE TO BE SUITABLY HEAT TRACED, WRAPPED AND MARKED.
- ALL PLUMBING AND SANITARY LINES TO BE PURGED AND FLUSHED PRIOR TO COMPLETION AND HAND OVER (WATER, DRAINAGE), BY DIVISION 22.
- SANITARY VENT LINES ARE NOT SHOWN, VENT LINES TO BE INSTALLED IN NEAREST WALL, AND CONNECTED TO EXISTING BUILDING VENT SYSTEM, VENTING PROTOCOL IS TO BE IN ACCORDANCE WITH ONTARIO BUILDING CODE.

SANITARY NOTED DEVICES

- CONNECT NEW 100Ø SANITARY LINE TO EXISTING 100Ø CAPPED SANITARY CONNECTION AT APPROXIMATELY THIS LOCATION. VERIFY EXACT LOCATION OF EXISTING ON SITE.
- NEW 32Ø SANITARY LINE DOWN FROM LAVATORY TO BELOW GRADE, 32Ø VENT LINE UP FROM LAVATORY TO CEILING SPACE.
- NEW 75Ø SANITARY LINE DOWN FROM WATER CLOSET TO BELOW GRADE, 50Ø VENT LINE UP FROM LAVATORY TO CEILING SPACE.
- NEW 32Ø SANITARY LINE DOWN FROM SINK, RUN IN WALL AND DROP TO BELOW GRADE AS INDICATED, 32Ø VENT LINE UP FROM SINK TO CEILING SPACE.
- NEW 50Ø SANITARY LINE DOWN FROM MOP SINK TO BELOW GRADE, 32Ø VENT LINE UP FROM MOP SINK TO CEILING SPACE.
- DISCHARGE PRESSURE RELIEF LINE FROM DOMESTIC HOT WATER HEATER OVER MOP SINK.
- NEW INSULATED CONDENSATE DRAIN FROM COOLER EVAPORATOR UNIT, DISCHARGE OVER NEW FUNNEL FLOOR DRAIN OUTSIDE THE WALK IN COOLER. REFER TO DETAIL ON DRAWING M2.
- PROVIDE A COMPLETE AND OPERATIONAL VENTING SYSTEM FOR ALL NEW FIXTURES. FIXTURES TO BE VENTED ACCORDING TO OBC AND LOCAL CODES HAVING JURISDICTION. COMBINE VENTS IN CEILING SPACE AND TERMINATE VENT THRU ROOF COMPLETE WITH NEW VENT TERMINAL. MAINTAIN MINIMUM 3000mm FROM FRESH AIR INTAKES. ROOF PENETRATION TO BE SEALED WEATHER TIGHT.
- PROVIDE ALL NEW FLOOR DRAINS TO BE COMPLETE WITH TRAPS AND TRAP PRIMERS.
- PROPOSED LOCATION OF NEW VENT LINE UP TO ROOF, TERMINATE ON ROOF WITH VENT TERMINAL FOR SIZE REFER TO FLOOR PLAN. KEEP VENT TERMINAL MINIMUM 3000mm FOR ANY BUILDING OPENINGS OR OUTDOOR AIR INTAKES.
- NEW VENT LINE TERMINATED ON ROOF WITH VENT TERMINAL FOR FUTURE TENANT USE. TERMINATE 450mm BELOW FINISHED DECK.

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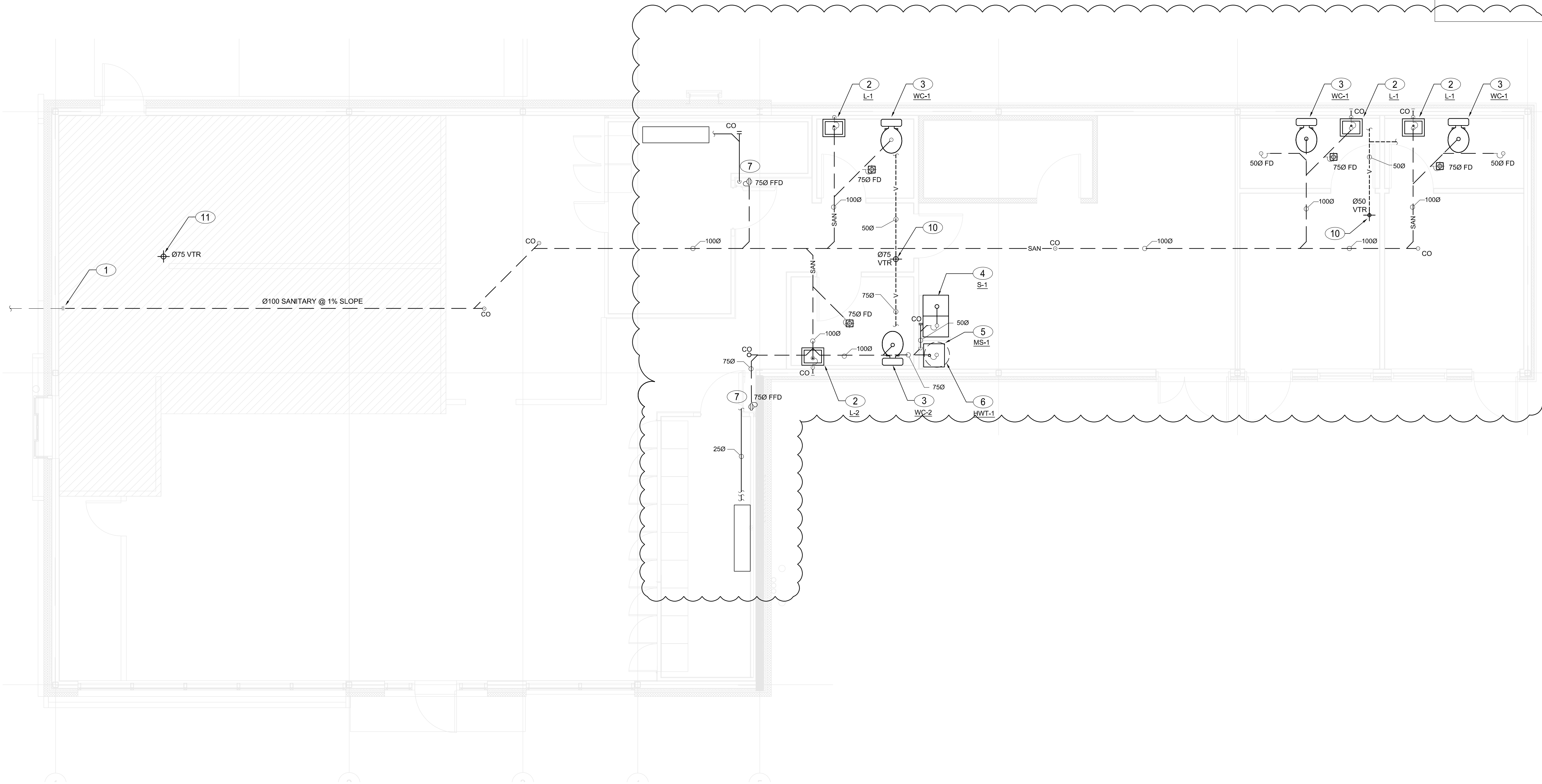
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PROJECT TITLE:

ULTRAMAR

794047 COUNTRY RD 124
SINGHAMPTON ON

REVISION

2	2021-07-15	NOC #1	RS
1	2021-04-22	ADDENDUM #2	RS

DRAWING TITLE:

HVAC
DEMOLITION LAYOUT

PRINT DATE: 2021/07/21 SCALE: AS NOTED

DRAWN BY: ZA/RS DRAWING NO:

CHECKED BY: RH

PROJECT NO: 20-XXXX

M4.0

DRAWING NOTES

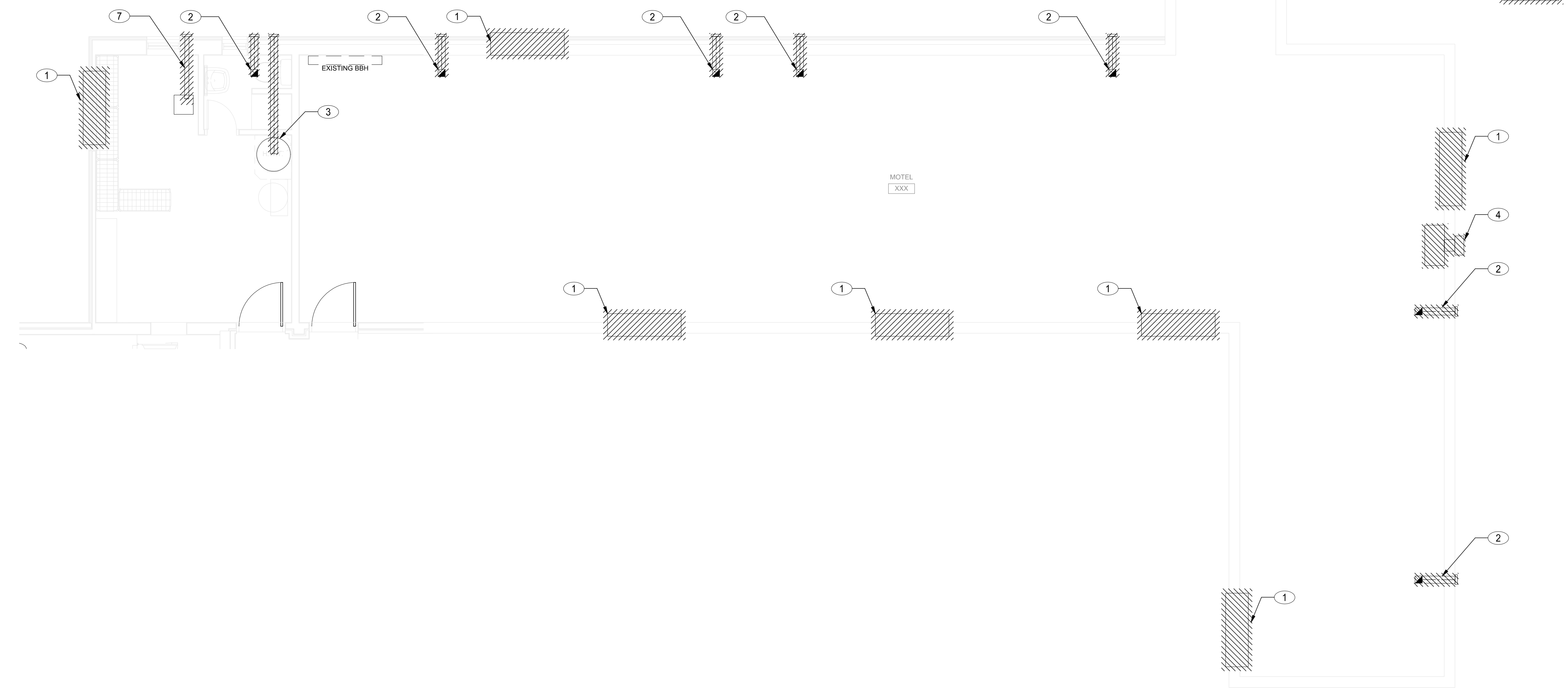
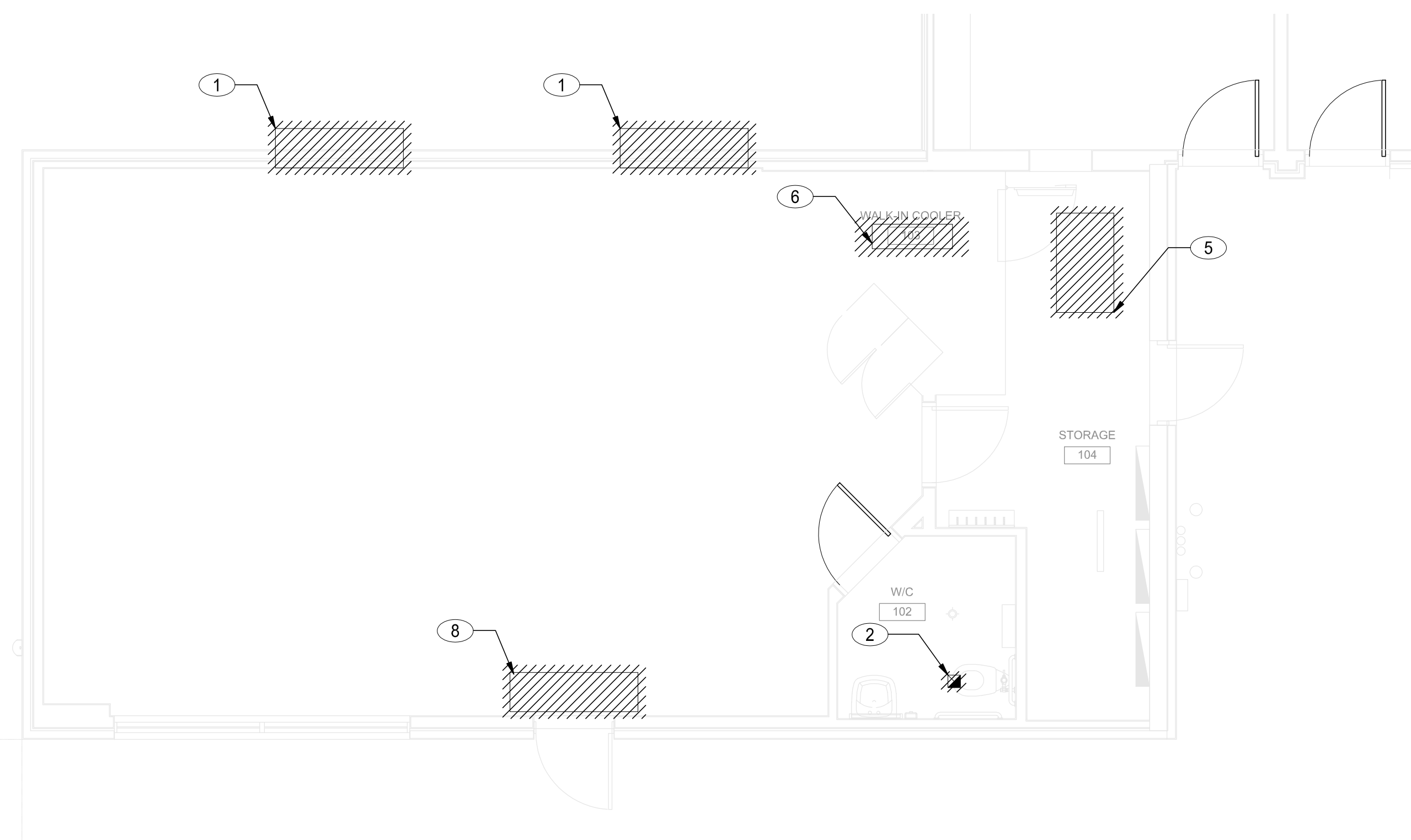
1. EXISTING A/C UNIT TO BE REMOVED IN ITS ENTIRETY, COMPLETE WITH ALL ASSOCIATED APPURTENANCES CONTROLS ETC.
2. EXISTING EXHAUST FAN TO BE REMOVED IN ITS ENTIRETY, COMPLETE WITH ALL ASSOCIATED APPURTENANCES CONTROLS, HANGERS, SUPPORTS, GRILLES, DUCTWORK, ETC.
3. EXISTING HOT WATER TANK TO BE REMOVED IN ITS ENTIRETY, COMPLETE WITH ALL ASSOCIATED VENTS, GAS PIPING ETC.
4. EXISTING FIRE PLACE TO BE REMOVED IN ITS ENTIRETY, COMPLETE WITH ALL ASSOCIATED VENTS, GAS PIPING ETC.
5. EXISTING CONDENSING UNIT ON ROOF TO BE REMOVED COMPLETE WITH ALL ASSOCIATED APPURTENANCES: REFRIGERANT PIPING, ETC.
6. INDOOR EVAPORATOR UNIT IN EXISTING COOLER TO BE REMOVED COMPLETE WITH ALL ASSOCIATED APPURTENANCES: REFRIGERANT PIPING, ETC.
7. EXISTING VENT FROM DRYER TO BE REMOVED
8. EXISTING AIR CURTAIN AT ENTRANCE TO BE REMOVED COMPLETE WITH ALL SUPPORTS CONTROLS ETC.

GENERAL NOTES

- A. DISCONNECTION OF ALL ELECTRIC POWERED EQUIPMENT BY ELECTRICAL DIVISION - TYPICAL
- B. FOR EXACT LOCATION OF PROPANE TANK REFER TO SITE PLAN.

1
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SCALE: 1:50
CSTORE HVAC DEMO PLAN

2
M4.0
SCALE: 1:50
MOTEL HVAC DEMO PLAN

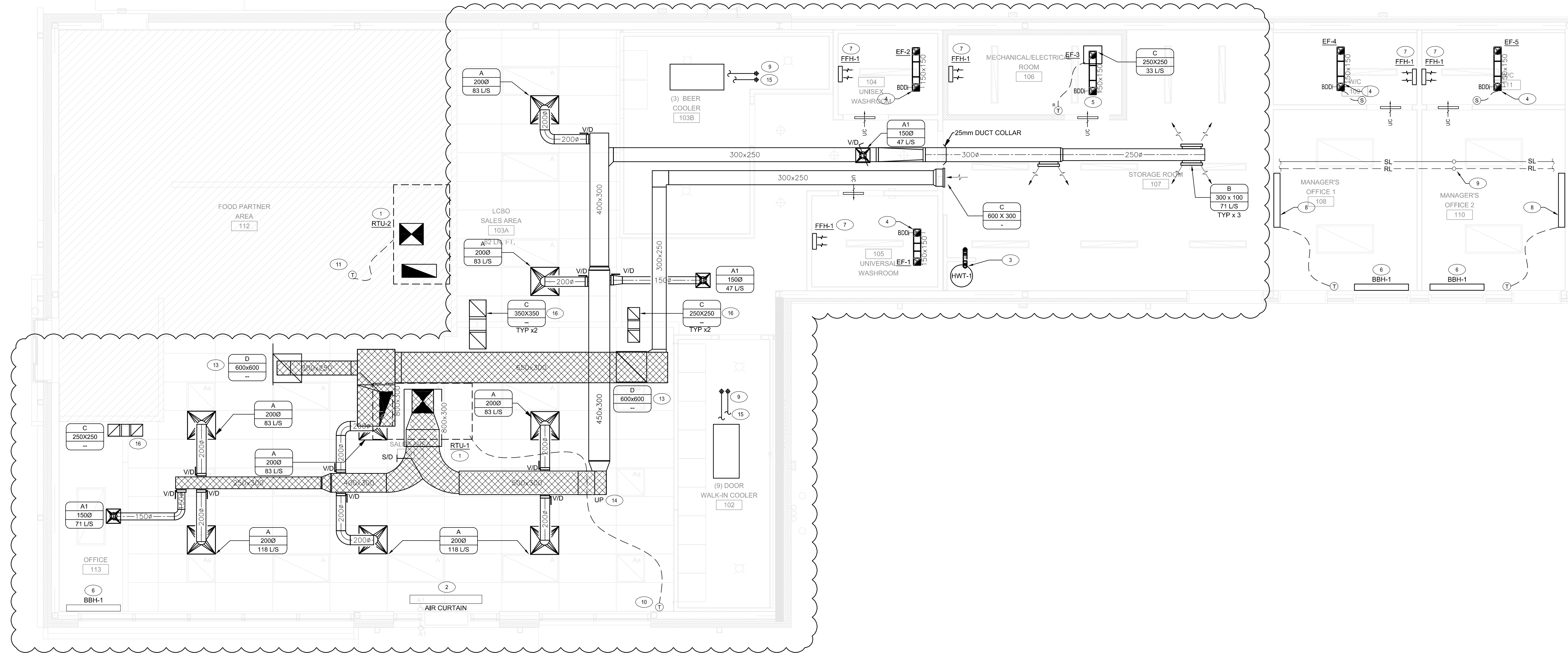


HVAC NOTED DEVICES

- NEW ROOF-TOP UNIT ON ROOF - REFER TO MECHANICAL ROOF PLAN - SUPPLY AND RETURN DUCT RISER SIZES TO MATCH UNIT OPENINGS.
- SUPPLY AND INSTALL NEW AIR CURTAIN. INSTALL AIR CURTAIN ABOVE DOOR AS PER MANUFACTURER RECOMMENDATIONS. WIRING BY ELECTRICAL DIVISION.
- INSTALL NEW 1500 INTAKE / EXHAUST CONCENTRIC GAS VENT FROM DOMESTIC HOT WATER TANK UP THRU ROOF. SIZE AND INSTALL AS PER MANUFACTURERS RECOMMENDATIONS. MAKE ROOF PENETRATION WEATHER TIGHT.
- SUPPLY AND INSTALL NEW EXHAUST FAN COMPLETE WITH HANGARS SUPPORTS, CONTROLS, ETC. ROUTE DUCT FROM NEW EXHAUST FAN UP THROUGH ROOF AND TERMINATE MINIMUM 450mm ABOVE FINISHED ROOF COMPLETE WITH RAIN CAP. FOR DUCT SIZES REFER TO FLOOR PLAN. FAN TO BE INTERLOCKED WITH WASHROOM OCCUPANCY SENSOR.
- SUPPLY AND INSTALL NEW EXHAUST FAN COMPLETE WITH HANGARS SUPPORTS, CONTROLS, ETC. ROUTE DUCT FROM NEW EXHAUST FAN UP THROUGH ROOF AND TERMINATE MINIMUM 450mm ABOVE FINISHED ROOF COMPLETE WITH RAIN CAP. FOR DUCT SIZES REFER TO FLOOR PLAN. EXHAUST FAN TO BE CONTROLLED BY REVERSE ACTING THERMOSTAT SET TO 25.5°C
- SUPPLY AND INSTALL NEW BASEBOARD HEATER COMPLETE WITH INTEGRATED THERMOSTATS ON WALL BELOW WINDOW. INSTALL HEATER APPROXIMATELY 100mm A.F.F. WIRING BY ELECTRICAL DIVISION.
- SUPPLY AND INSTALL NEW FAN FORCED HEATER COMPLETE WITH INTEGRATED THERMOSTATS RECESSED IN WALL BELOW. INSTALL HEATER APPROXIMATELY 300mm A.F.F. WIRING BY ELECTRICAL DIVISION.
- SUPPLY AND INSTALL NEW INDOOR EVAPORATOR UNIT ON WALL COMPLETE WITH ALL ASSOCIATED APPURTENANCES HANGARS, SUPPORTS, CONTROLS, REFRIGERATION LINES ETC. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS AND PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- NEW REFRIGERATION LINES UP THRU ROOF TO CONDENSING UNIT ABOVE. FOR CONTINUATION REFER TO ROOF PLAN.
- SUPPLY AND INSTALL NEW THERMOSTAT. INSTALL THERMOSTAT 1200mm A.F.F. AT THIS LOCATION. COORDINATE EXACT LOCATION ON SITE WITH OWNER. IF THERMOSTAT IS MORE THEN 1500mm FROM PROPOSED LOCATION OBTAIN ENGINEER OF RECORD APPROVAL.
- COIL THERMOSTAT WITH 9000mm AT CONTROL WIRING IN A POLY BAG AS SUSPEND FROM UNIT FOR FUTURE TENANT RELOCATION.
- PROVIDE NEW 400 X 400 ACOUSTICALLY LINED SUPPLY.
- 600 X 600 DUCTED RETURN GRILLE TO BE COMPLETE WITH ACOUSTICALLY LINED DUCTED RETURN PLENUM.
- ROUTE NEW SUPPLY DUCT UP INTO JOIST AND EXTEND AS INDICATED TO FACILITATE CROSS WITH NEW RETURN DUCT. COORDINATE EXACT ROUTING ON SITE.
- NEW REFRIGERATION LINES FROM ROOF TO SERVE WALK IN COOLER. ALL PIPING AND CONNECTION TO EVAPORATOR BY REFRIGERANT CONTRACTOR FOR WALK IN COOLER. CONDENSER AND EVAPORATOR SPECIFICATIONS REFER TO ARCHITECTURAL DRAWINGS.
- SUPPLY AND INSTALL NEW CEILING MOUNTED RETURN GRILLES ON BOTH SIDE OF WALL COMPLETE WITH DUCTED RETURN PLENUM, FOR SIZE REFER TO FLOOR PLAN.

HVAC GENERAL NOTES

- ALL 90° SUPPLY & RETURN ELBOWS SHALL HAVE SMOOTH RADIIUSES. SQUARE ELBOWS SHALL BE COMPLETE WITH TURNING VANES.
- UNLESS NOTES OTHERWISE, MEASUREMENTS ARE IN METRIC UNITS, SUCH AS LITERS PER SECOND (AIR FLOW) AND MILLIMETERS (DISTANCE).
- FOR VENTS AND DUCTWORK PASSING THROUGH FIRE RATED ASSEMBLY, DIVISION 23 SHALL PROVIDE FIRE CLOSURE(S) SUCH AS DAMPERS, CAULKING, AND FIRE DONUTS BY LOCAL BUILDING CODE. ALL FIRE CLOSURE RATINGS SHALL MATCH THE RATING OF THE FIRE RATED ASSEMBLIES THROUGH WHICH THEY ARE DESIGNED TO PASS THROUGH.
- ALL THERMOSTATS SHALL BE SITUATED AT A HEIGHT OF 1200mm AFF. AT THE LOCATION SPECIFIED ON PLAN. COORDINATION BETWEEN THE PROFESSIONS IS RECOMMENDED TO AVOID ANY POSSIBLE OBSTRUCTIONS.
- ALL SUPPLY AIR DUCTWORK SHALL BE WRAPPED WITH 25MM THERMAL DUCT INSULATOR.
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL-RELATED INFORMATION IN REGARDS TO MECHANICAL EQUIPMENT.
- ACOUSTIC LINED SUPPLY & RETURN DUCTWORK FROM RTU UNITS TO HAVE CLEAR FREE AREA INSIDE DIMENSION.
- ALL EXHAUST DUCTWORK TO BE THERMALLY INSULATED.



1 HVAC PLAN
SCALE: 1:50

GENERAL NOTES:

- ALL CONSTRUCTION ACTIVITIES MUST FULLY COMPLY WITH THE PROVINCIAL BUILDING CODE, AS AMENDED, AND TO ALL OTHER APPLICABLE LAWS.
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- I HAVE EXERCISED RESPONSIBLE CONTROL WITH RESPECT TO DESIGN REVIEW ACTIVITIES.
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- DRAWINGS MAY BE USED FOR CONSTRUCTION, ONLY WHEN SIGNED AND SEALED BY THE ARCHITECT.
- CONTRACTOR CANNOT COMMENCE ANY ONSITE WORK UNLESS ALL APPLICABLE BUILDING PERMITS ARE DISPLAYED ON SITE.

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#	Date	Description	Dwn
2	2021-03-15	ISSUED FOR TENDER	RS
1	2021-02-01	ISSUED FOR REVIEW	2A

PROJECT TITLE:

ULTRAMAR

794047 COUNTRY RD 124
SINGHAMPTON ON

REVISION

#	Date	Description	Dwn
2	2021-07-15	NOC #1	RS
1	2021-04-22	ADDENDUM #2	RS

DRAWING TITLE:

HVAC PLAN & NOTES

PRINT DATE: 2021/07/21 SCALE: AS NOTED

DRAWN BY: ZA/RS DRAWING NO:

CHECKED BY: RH

PROJECT NO: 20-XXXX

M4.1

ROOF NOTED DEVICES

1. NEW 150mm EXHAUST DUCT FROM CEILING SPACE BELOW. TERMINATE ON ROOF WITH GOOSENECK, GOOSENECK OUTLET TO BE MINIMUM 600mm ABOVE FINISHED ROOF AND COMPLETE WITH BIRD SCREEN.
2. SUPPLY AND INSTALL NEW ROOF TOP UNIT COMPLETE WITH NEW 450mm ROOF CURB.
3. NEW 100mm INTAKE / EXHAUST CONCENTRIC GAS VENT FROM HWT-1 BELOW INSTALL AND TERMINATE ON ROOF AS PER MANUFACTURERS RECOMMENDATIONS.
4. NEW REFRIGERATION LINES FROM CEILING SPACE OF FLOOR BELOW UP TO ROOF THROUGH NEW REFRIGERATION DOG HOUSE.
5. SUPPLY AND INSTALL NEW CONDENSING UNIT CU-1 ON ROOF.
6. SUPPLY AND INSTALL NEW CONDENSING UNIT ON ROOF SERVING NEW BEER COOLER BELOW. REFRIGERANT CONTRACTOR TO PROVIDE AND INSTALL ALL REFRIGERANT PIPING BETWEEN INDOOR EVAPORATOR UNIT AND CONDENSING UNIT. FOR WALK IN COOLER, CONDENSER AND EVAPORATOR SPECIFICATIONS REFER TO ARCHITECTURAL DRAWINGS.
7. NEW PLUMBING VENT TERMINAL FROM BELOW. (TYPICAL)
8. NEW 320 PROPAANE GAS LINE UP TO ROOF FROM RELOCATED PROPANE STORAGE TANK BELOW - REFER TO SITE PLAN FOR EXACT LOCATION OF RELOCATED PROPANE TANK. PRICE IN TENDER FOR ALL ASSOCIATED COSTS PERTAINING TO THE RELOCATION OF THE EXISTING PROPANE TANK.
9. NEW 250 PROPAANE GAS LINE DOWN TO CEILING SPACE BELOW TO SERVE DOMESTIC HOT WATER TANK.
10. NEW 250 PROPAANE GAS LINE LINE DOWN TO CEILING SPACE BELOW TO SERVE FUTURE TENANT EQUIPMENT.
11. REWORK THE EXISTING GAS VENTS FROM BELOW TO SUIT NEW ROOF. CONTRACTOR TO VERIFY EXACT ROUTING ON SITE.

GENERAL NOTES

- A. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- B. REFER TO STRUCTURAL DRAWING FOR ROOFTOP UNIT SETTING AND INSTALLATION DETAIL.
- C. FOR EXACT LOCATION, CONFIGURATION AND SIZE OF DUCTWORK REFER TO HVAC PLAN AND SHOP DRAWING.
- D. ALL MECHANICAL EQUIPMENT AND INSTALLATION TO MEET CSA, BCBC AND STANDARD REQUIREMENTS.
- E. CONTRACTOR SHALL REFER TO RTU-1 MANUFACTURERS STRUCTURAL INSTALLATION.
- F. ALL PENETRATION THROUGH WALL/FLOOR REQUIRE FINE SEPARATION (WALL OR CEILING/FLOOR) BY MECHANICAL COMPONENTS TO BE PROTECTED BY FINE DAMPER OR APPROVED FINE BLOCK MATERIALS.
- G. CAP ALL EXHAUST FAN GOOSENECKS AND ALSO FAN VENTS WITH VENT ROOF CAP.
- H. CONTRACTOR SHALL PROVIDE GAS LINE PRESSURE REGULATOR, BALL VALVE, PIPING SUPPORTS IN ACCORDANCE WITH NFPA 54 AND /OR REQUIRED PER BCBC.
- I. ADJUST PRESSURE REGULATOR AS REQUIRED PER EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTION.
- J. ROUTE CONDENSATE DRAIN AS REQUIRED PER BC BUILDING CODE.
- K. GAS PIPING SIZED FOR MAXIMUM 0.25PSI - 0.5PSI IN ACCORDANCE WITH NFPA. VERIFY EXACT PRESSURE WITH LOCAL CODE UTILITY PRIOR TO COMMENCEMENT OF ANY WORK. ADJUST PIPE SIZES IF REQUIRED FOR LOCAL PRESSURE.
- L. ADJUST PRESSURE REGULATOR AS REQUIRED PER EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTIONS.
- M. VENT DISCHARGE TO PENETRATE THROUGH ROOF. VENT DISCHARGE TO BE AT LEAST 3000mm AWAY FROM ANY FRESH AIR INTAKES. TO AVOID ODOR CONTAMINATION CONCERNS. VENTING PROTOCOLS TO BE IN ACCORDANCE WITH BUILDING CODE.

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2	2021-07-15	NOC #1	RS
1	2021-04-22	ADDENDUM #2	RS

DRAWING TITLE:

ROOF PLAN

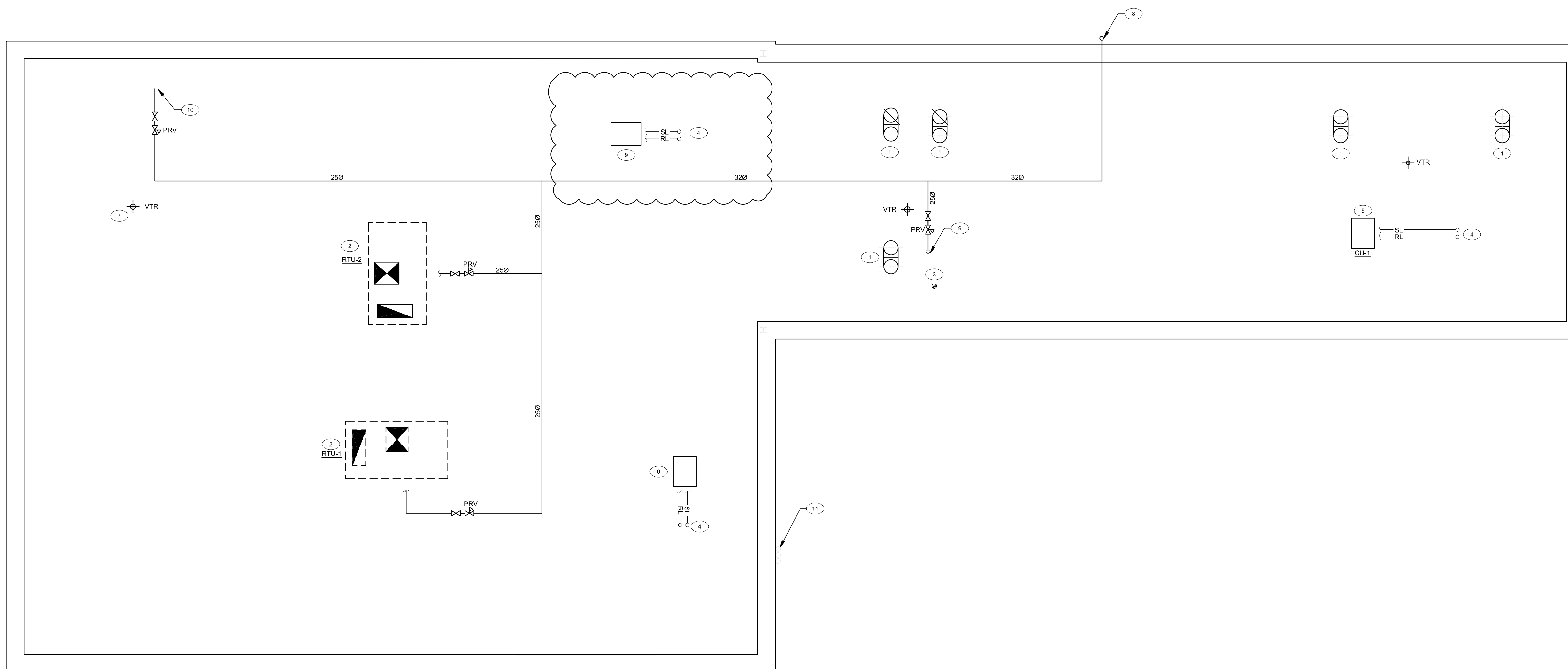
PRINT DATE: 2021/07/21 SCALE: AS NOTED

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M5



PACKAGED ROOF TOP UNIT

TAG	SERVICE/ LOCATION	TYPE	MANUFACTURER	MODEL	SUPPLY AIR			O/A	HEATING COIL					COOLING COIL					ELECTRICAL			PHYSICAL					
					FLOW (CFM)	ESP ("W.G.)	MOTOR (HP)		FLOW (CFM)	EAT ("F)	LAT ("F)	INPUT (MBH)	OUTPUT (MBH)	EFF.	EAT ("F) DB/WB	LAT ("F) DB/WB	EER	GROSS (MBH)	NET (MBH)	V/Ph/Hz	MCA	MOCP	EMERGENCY (Y/N)	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	SOUND POWER (dBA)
RTU-1	CONVENIENCE / LCBO (ROOFTOP)	ROOFTOP UNIT	LENNOX	LGH074H4T	2400	0.50	0.67	400	--	--	108	86	0.8	--	--	-	-	-	575/3/60	11	15	N	85.25	47	46.875	82	939
RTU-2	FUTURE TENANT - TDL (ROOFTOP)	ROOFTOP UNIT	LENNOX	LGH038H4E	1200	0.50	0.33	240	--	--	65	52	0.8	--	--	-	-	-	575/3/60	8	15	N	85.25	47	46.875	75	760

NOTES

- INTERNALLY ISOLATED BLOWER AND MOTOR
- CONVENIENCE OUTLET, SEPERATLEY WIRED
- GASKETED & HINGED DOUBLE WALLED ACCESS DOORS WITH LEVER HANDLES
- PROPANE KIT

EXHAUST FAN SCHEDULE

TAG	SERVICE	TYPE	MANUFACTURER	MODEL	FLOW (CFM)	ESP ("W.G.)	RPM	MOTOR (HP)	VOLTAGE	WEIGHT (LBS)	REMARKS
EF-1, EF-2, EF-4, EF-5	NEW WASHROOMS	EXHAUST FAN	GREENHECK	SP-AP	105	0.25	1550	0.1	115/1/60	26	
EF-3	ELECTRICAL ROOM	EXHAUST FAN	GREENHECK	SP-A	200	0.25	1470	0.1	115/1/60	59	

REMARKS

- THIS CONTRACTOR SHALL VERIFY THE VOLTAGES OF ALL MECHANICAL EQUIPMENT WITH DIVISION 26 PRIOR TO ORDERING.
- ALL ROOF MOUNTED FANS TO BE SUPPLIED C/W ROOF CURB, BIRD-SCREENS & WEATHERPROOF HOUSING.

AIR TERMINALS SCHEDULE

TAG	DESCRIPTION	NOTES
A / A1	PRICE MODEL 'SPD', 24x24 FACE SIZE ALUMINUM CONSTRUCTION ADJUSTABLE SQUARE PLAQUE CEILING DIFFUSERS, REFER TO DRAWING FOR SIZES, REFER TO ARCHITECTURAL CEILING PLANS FOR MOUNTING REQUIREMENTS, DIFFUSERS TAGGED A1 TO BE 12"X12" FACE SIZE	1
B	PRICE MODEL '520D', DOUBLE DEFLECTION @ 45°, STEEL CONSTRUCTION, 20mm SPACING C/W OPPOSED BLADE DAMPER, FRONT BLADE PARALLEL TO LONG DIMENSION, REFER TO DRAWING FOR GRILLE SIZES, REFER TO ARCHITECTURAL CEILING PLANS FOR MOUNTING REQUIREMENTS.	1
C	PRICE MODEL 'ATG1/ATG2', REFER TO DRAWING FOR TRANSFER GRILLE SIZES, REFER TO ARCHITECTURAL CEILING PLANS FOR MOUNTING REQUIREMENTS.	1,4
D	PRICE MODEL '80D', REFER TO DRAWING FOR GRILLE SIZES, REFER TO ARCHITECTURAL CEILING PLANS FOR MOUNTING REQUIREMENTS.	1

NOTES

- CONCEALED FASTENERS
- C/W OPPOSED BLADE DAMPER
- RETURN DIFFUSER USED FOR LOW VELOCITY SUPPLY (KITCHEN MUA ONLY)
- CUSTOM COLOR TO SUIT ARCHITECT

NEW SPLIT SYSTEM

TAG	SERVICE/ LOCATION	TYPE	MANUFACTURER	MODEL	COOLING		ELECTRICAL		
					FLOW (CFM)	BTUH	V/Ph/Hz	MCA	MOCP
AC-1 & AC-2	MANAGER OFFICES	SPLIT SYSTEM	MITSUBISHI	MSZ-FH12NA	398	12,000	208/1/60	1	-
CU-1	ROOF	CONDENSING UNIT	MITSUBISHI	MXZ-3C24NAHZ	-	23,600	208/1/60	30	40

NOTES

- UNIT TO BE COMPLETE WITH LOW AMBIENT KIT CAPABLE OF OPERATION TO -40°F

ELECTRIC HEATER SCHEDULE

No.	MANUFACTURER	MODEL	WATTAGE	LENGTH	VOLTAGE	THERMOSTAT	MOUNTING HEIGHT	REMARKS
FFH-1	STELPRO	RWF0501	500	225mm	120/1/60	INTEGRATED	12" AFF	1, 2
BBH-1	STELPRO	DBH2101	1000	1200mm	120/1/60	INTEGRATED	4" AFF	1

NOTES & REMARKS

- SUPPLIED AND INSTALLED BY MECHANICAL DIVISION, WIRED BY ELECTRICAL DIVISION.
- RECESSED

PLUMBING FIXTURE SCHEDULE

TYPE	SPECIFICATION	TRIM	TRAPS & SUPPLIES EQUAL TO	CW	FW	HW	110	WASTE	VENT	REMARKS
MS-1	MOP SINK	FIAT TSB300	2" P-TRAP INTEGRAL STAINLESS STEEL DRAIN BODY, P-TRAP	1/2"	-	1/2"	-	2"	1 1/2"	REFER TO MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.
S-1	2-COMPARTMENT SINK WITH WALL MOUNT SWIVEL ARM & PRE-RINSE ASSEMBLY W/ ADD-ON, 12" SPOUT, TEE, ADAPTERS & MOUNTING KIT	M.K.E. EPS-36	1 1/2" P-TRAP C/W CLEANOUT	1/2"	-	1/2"	-	1 1/4"	1 1/4"	PRE-RINSE, FAUCETS & SINK TO BE INSTALLED BY DIV.22. CONFIRM FAUCET LOCATION BEFORE ROUGH-IN.
L-1	VITREOUS CHINA TYPE WITH REAR OVERFLOW - AMERICAN STANDARD, DECLYN 0321026.020	TOTO TEL105-D10E#CP* 1.9 LPM, HYDRO-GENERATOR POWERED C/W 4" COVERPLATE THP3158#CP*	*TECK 33T290-1 OFFSET WASTE FLEXIBLE CHROME SUPPLIES WITH SCREW STOPS	1/2"	-	1/2"	-	1 1/4"	1 1/4"	PROVIDE MIXING VALVE ZURN ZW3870XLT*. INCLUDES PROTECTIVE COVER FOR EXPOSED PIPEWORK P-TRAP, HW & CW ANGLE STOPS AND SUPPLIES.
L-2	BARRIER FREE, VITREOUS CHINA TYPE WITH REAR OVERFLOW - AMERICAN STANDARD, MURRO 0955.001EC	TOTO TEL105-D10E#CP* 1.9 LPM, HYDRO-GENERATOR POWERED C/W 4" COVERPLATE THP3158#CP*	*TECK 33T290-1 OFFSET WASTE FLEXIBLE CHROME SUPPLIES WITH SCREW STOPS	1/2"	-	1/2"	-	1 1/4"	1 1/4"	PROVIDE CARRIER ZURN Z-1231* & MIXING VALVE ZURN ZW3870XLT*.
WC-1	ELONGATED WATER CLOSET, VITREOUS CHINA, SYPHON JET ACTION BOWL WITH FLANGE BOLTS, BOLT CAPS, FLOOR FLANGE & GASKET. -AMERICAN STANDARD, MADERA 3461001.020*	TOTO TET1LA32#CP* HYDRO-GENERATOR POWERED	INTEGRAL	1"	-	-	-	3"	2"	PROVIDE SEAT CENTOCO #500STSCC*
WC-2	BARRIER FREE ELONGATED WATER CLOSET, VITREOUS CHINA, SYPHON JET ACTION BOWL WITH FLANGE BOLTS, BOLT CAPS, FLOOR FLANGE & GASKET. -AMERICAN STANDARD, MADERA 2305.100	ZURN ZEMS6000AV-HET-YO* C/W P6000-HW6* HARDWIRE CONVERTER	INTEGRAL	1"	-	-	-	3"	2"	PROVIDE WHEELCHAIR SEAT CENTOCO #820STS* SEE MANUFACTURER'S INSTUCTIONS FOR AUTOMATIC CONTROL NOTES.

NOTES & REMARKS

- * DENOTES THIS FIXTURE & ASSOCIATED FLUSH VALVE, FAUCET, CARRIER, ETC SHALL BE PURCHASED BY DIVISION 22 THROUGH HAINES, JONES & CADBURY CORPORATION (HJCC).
- ALL FIXTURES SHALL BE SUPPLIED & INSTALLED BY DIVISION 22 UNLESS OTHERWISE NOTED. MAKE ALL CONNECTIONS WITH BRAIDED FLEXIBLE HOSE.

NEW HOT WATER HEATER SCHEDULE

No.	MANUFACTURER & MODEL	CAPACITY (GAL)	GAS INPUT (BTU/H)	TYPE	GAS PRESSURE (in.W.C.)	VOLTAGE	WATT/AMP	DIMENSIONS IN	WEIGHT (LBS)
HWT-1	AO SMITH BTH-120	40 US GAL	120,000	PROPANE	--	120V/10/60H	--	--	--

NOTES & REMARKS

HOT WATER TANK TO BE COMPLETE WITH PROPANE KIT AND NEUTRALIZATION KIT.



G.L. SMITH

PROFESSIONAL STAMPS:



Wallfacer Architecture Inc.

4711 Yonge Street Suite 801
Toronto Ontario M2N 6K8
647 547 6060

PROFESSIONAL STAMPS:

GENERAL NOTES:

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SCHEDULES

PRINT DATE: 2021/07/21 SCALE: AS NOTED

DRAWN BY: ZA/RS DRAWING NO:

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M6

1. GENERAL

1.1. CONTRACTOR RESPONSIBILITIES

1.1.1. THE RESPONSIBILITY AND SCOPE OF EACH SUB-TRADE RESTS SOLELY WITH THE CONTRACTOR. EXTRAS WILL NOT BE CONSIDERED BASED ON THE GROUNDS OF DIFFERENCE IN INTERPRETATION OF SPECIFICATIONS AND DRAWINGS AS TO WHICH TRADE INVOLVED SHALL PROVIDE CERTAIN SPECIALTIES OR MATERIALS.

ITEM REQUIRED FOR THE COMPLETE MECHANICAL INSTALLATION. THEREFORE, THE CONTRACTOR SHALL MAKE HIS OWN PROVISIONS FOR ALL LABOUR, MATERIALS AND EQUIPMENTS DEEMED NECESSARY TO COMPLETE THE MECHANICAL SYSTEM.

1.1.2. THE SPECIFICATIONS ARE INTEGRAL WITH THE DRAWINGS WHICH ACCOMPANY THEM. NEITHER IS TO BE USED ALONE, ANY ITEM OR SUBJECT OMITTED FROM ONE, BUT IMPLIED ON THE OTHER IS PROPERLY SPECIFIED.

1.1.2.1. THE ENGINEER'S REVIEW SHALL NOT RELIEVE THIS CONTRACTOR FROM RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENTS IN ACCORDANCE WITH THE DESIGN INTENT AND CONTRACT DOCUMENTS, ALL DIMENSIONS AND SITUATIONS FOR SITE CONDITIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL ELECTRICAL CHARACTERISTICS MUST BE COORDINATED WITH THE ELECTRICAL SUB-CONTRACTOR.

2.4.3. FINISH INSULATION NEATLY AT HANGERS, SUPPORTS AND OTHER PROTRUSIONS. INSULATE FITTINGS AND VALVES.

ENGINEER, INSULATION ASSEMBLIES SHALL COMPLY WITH CURRENT EDITION OF ONTARIO BUILDING REGULATIONS WITH FLAME SPREAD AND SMOKE DEVELOPED RATINGS NOT EXCEEDING 25 AND 50 RESPECTIVELY.

1.1.2. CONTRACTOR TO MAKE CERTAIN THAT ALL ADDENDA TO THE SPECIFICATIONS AND ALL REVISIONS TO THE DRAWINGS ARE INCLUDED IN THEIR QUOTATION.

1.4. QUALITY ASSURANCE

1.1.2.1. KEEP IN THE JOB OFFICE AN EXTRA SET OF WHITE PRINTS AND SPECIFICATIONS ON WHICH ALL CHANGES AND DEVIATIONS SHALL BE RECORDED DAILY AT COMPLETION OF THE PROJECT. TURN OVER TO THE ENGINEER THREE SETS OF NEAT AS-BUILT DRAWINGS AND SPECIFICATIONS.

2.4.3.1. FINISH INSULATION NEATLY AT HANGERS, SUPPORTS AND OTHER PROTRUSIONS. INSULATE FITTINGS AND VALVES.

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4711 Yonge St. Suite 800 Toronto, ON. M2N 6K8 T.416.497.3662 info@gsmith.ca www.gsmith.ca G.S. WALLFACER Wallfacer Architecture Inc. 4711 Yonge Street Suite 801 Toronto Ontario M2N 6K8 647 547 0090 PROFESSIONAL STAMPS: PROJECT TITLE: REVISION: SPECIFICATIONS: PRINT DATE: 2021/07/21 SCALE: AS NOTED DRAWN BY: ZA/RS DRAWING NO: CHECKED BY: RH PROJECT NO: 20-XXXX