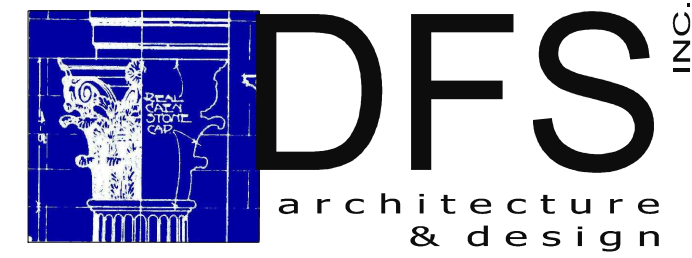


CONSTRUCTION OF A NEW BUILDING, SEPT-ÎLES, QUÉBEC

1501 BOULEVARD LAURE, SEPT-ÎLES, QC

MECHANICAL



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GENERAL

NEW
 DETAIL 1 ON DRAWING M-100

DEFINITIONS

FORESEE SUPPLY, INSTALL ET CONNECT

ABBREVIATIONS

- L/s LITERS BY SECOND
- SH-X TYPE "X" SHOWER
- WC-X TYPE "X" WATER CLOSET
- KS-X TYPE "X" KITCHEN SINK
- CM-X TYPE "X" COFFEE MACHINE
- LAV-X TYPE "X" LAVATORY
- JS-X TYPE "X" MOP SINK
- U-X TYPE "X" URINAL
- HWT-X TYPE "X" WATER HEATER
- AC-X TYPE "X" AIR CONDITIONING UNIT
- EF-X TYPE "X" EXHAUST FAN
- RTU-X TYPE "X" ROOFTOP UNIT
- COMP-X TYPE "X" COMPRESSOR

PIPING

- PIPING DOWN
- PIPING DOWN
- CONNECTION UNDERNEATH
- CAP
- CUT ON PIPE
- DOW DOMESTIC COLD WATER
- DHW DOMESTIC HOT WATER
- DHR RECIRCULATED DOMESTIC HOT WATER
- SAN SANITARY DRAINAGE UNDER SLAB
- SAN SANITARY DRAINAGE ABOVE GROUND
- ST STORM DRAIN UNDER SLAB
- ST STORM DRAIN ABOVE SLAB
- RL LIQUID STATE REFRIGERANT
- RG GAS STATE REFRIGERANT

PLUMBING

- P-TRAP
- FD FLOOR DRAIN
- HB HOSE BIB
- NFHW NON-FREEZE HOSE BIB
- CA COMPRESSED AIR OUTLET
- CO CLEAN OUT
- CO FLOOR CLEANOUT

VENTILATION

- RETURN GRILLE
- 4-WAY SUPPLY DIFFUSER
- BP-X VARIABLE AIR VOLUME BOX
- '2' TRANSFER GRILLE
- SB SECURITY BARS
- WALL MOUNTED EXHAUST FAN
- SG SECURITY GRILLES

FIRE PROTECTION

- SIAMESE CONNECTIONS
- FE-X PORTABLE EXTINGUISHER WITH WALL BRACKET
- DOWNRIGHT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- CORRECTIONAL FACILITY SPRINKLER HEAD

CONTROL

- THERMOSTAT-ELECTRIC ROOM SENSOR
- OPPOSED BLADE MOTORISED DAMPER
- CONTROL WIRING

MECHANICAL DRAWING LIST

- M000 DRAWINGS LIST AND LEGENDS
- M100 GROUND FLOOR - FIRE PROTECTION
- M200 GROUND FLOOR - PLUMBING
- M201 GROUND FLOOR - STORM DRAINAGE
- M300 GROUND FLOOR - HVAC
- M400 DETAILS PAGE 1
- M401 DETAILS PAGE 2
- M402 DETAILS PAGE 3
- M403 SCHEMATICS AND EQUIPMENT SCHEDULES

plan-repère key plan

L'entrepreneur doit vérifier les dimensions des dessins et les conditions de chantier avant de débiter les travaux. Aviser les professionnels de toutes divergences aux documents de construction. Ne pas mesurer sur les dessins.

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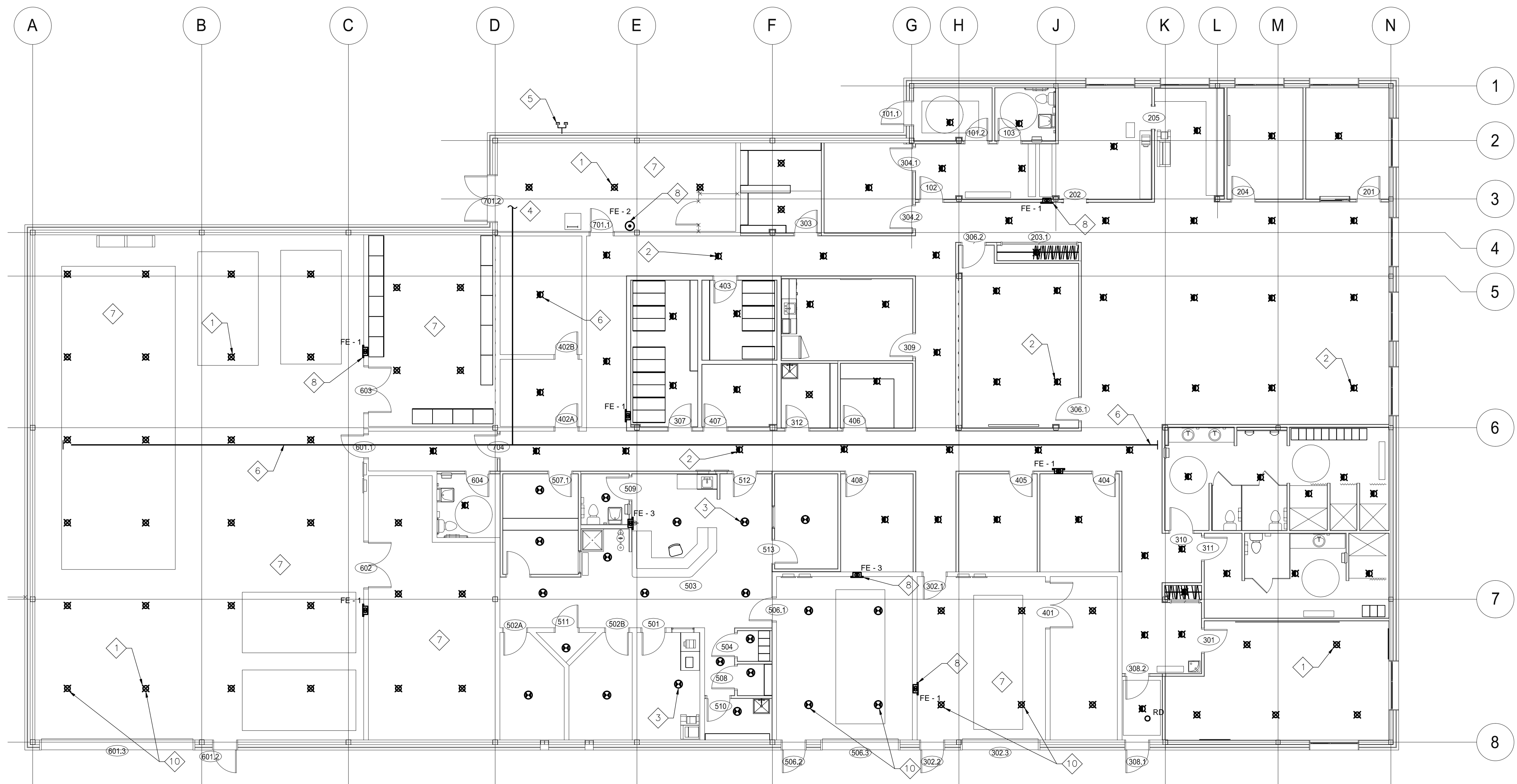
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dessin drawing
DRAWINGS LIST AND LEGENDS

conception	design	no. dossier	project no.
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GT			
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échelle	scale	imprimé	plot date
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1 FIRE PROTECTION
M100

GENERAL NOTES

1. SPRINKLER SYSTEMS ARE TO BE INSTALLED IN ACCORDANCE WITH N.F.P.A. STANDARD 13 ORDINARY HAZARD.
2. CO-ORDINATE SPRINKLER PIPING WITH WORK OF ALL OTHER TRADES.
3. ALL SPRINKLER HEADS IN FINISHED SPACES ARE TO BE PENDANT HEADS, UNLESS OTHERWISE NOTED ON DRAWING.
4. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.
5. LAYOUT, ROUTING AND LOCATIONS ARE INDICATIVE, CONTRACTOR IS TO VERIFY SITE CONDITIONS AND CO-ORDINATE INSTALLATION WITH ALL TRADES ON SITE.
6. PROVIDE WALL SLEEVES FOR ALL PIPING PENETRATIONS THROUGH WALL. CO-ORDINATE LOCATIONS WITH OTHER TRADES.
7. ALLOW FOR AN ADDITIONAL 10 SPRINKLER HEADS AROUND OBSTACLES CREATED BY EQUIPMENT AND DUCTWORK. VERIFY ALL DRAWINGS AND COORDINATE THE SPRINKLER LAYOUT WITH ALL TRADES. (TYPICAL.)

REQUIREMENTS FOR PORTABLE FIRE EXTINGUISHERS BUILDING AREA. 1300 SQ.M - ORDINARY HAZARD, NFPA 10 CHAPTER 3 MINIMUM 14 'A' UNITS REQUIRED.
3A 10BC DRY CHEMICAL, 5.0 KG EXTINGUISHERS INSTALLED.

DRAWING NOTES

1. UPRIGHT SPRINKLER HEAD IN OPEN STRUCTURE CEILING AREA. (TYPICAL.)
2. PENDANT RECESSED SPRINKLER HEAD IN FINISHED CEILING AREA. COORDINATE FINAL LOCATION WITH LIGHTING AND TEE BAR LAYOUT. (TYPICAL.)
3. PROVIDE SPRINKLER HEADS SUITABLE FOR CORRECTIONAL FACILITIES.
4. WATER ENTRY ROOM. SEE DETAIL 1/M12.
5. SIAMESE CONNECTION. SEE DETAIL 2/M12.
6. OUTLINE OF PREFERRED (SUGGESTED) LOCATION FOR SPRINKLER MAINS. CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH PIPE LAYOUT FOR REVIEW. (TYPICAL)
7. PROVIDE CAGES FOR SPRINKLER HEADS IN SPACES 601, 602, 603 AND 701.
8. PROVIDE PORTABLE FIRE EXTINGUISHERS (FE-1/FE-2) AND PORTABLE FIRE EXTINGUISHER (FE-3) IN A RECESSED ANTI-VANDAL SECURED HOUSING. SEE SPECIFICATIONS FOR DETAILS.
9. COORDINATE SPRINKLER SYSTEM INSTALLATION WITH OVERHEAD DOORS. TYPICAL. PROVIDE PROPER PROTECTION UNDER THE OVERHEAD DOORS IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 13.
10. PROVIDE 1200 mm OF THERMAL INSULATION ON SPRINKLER PIPE.

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plan-référence key plan
sceau stamp

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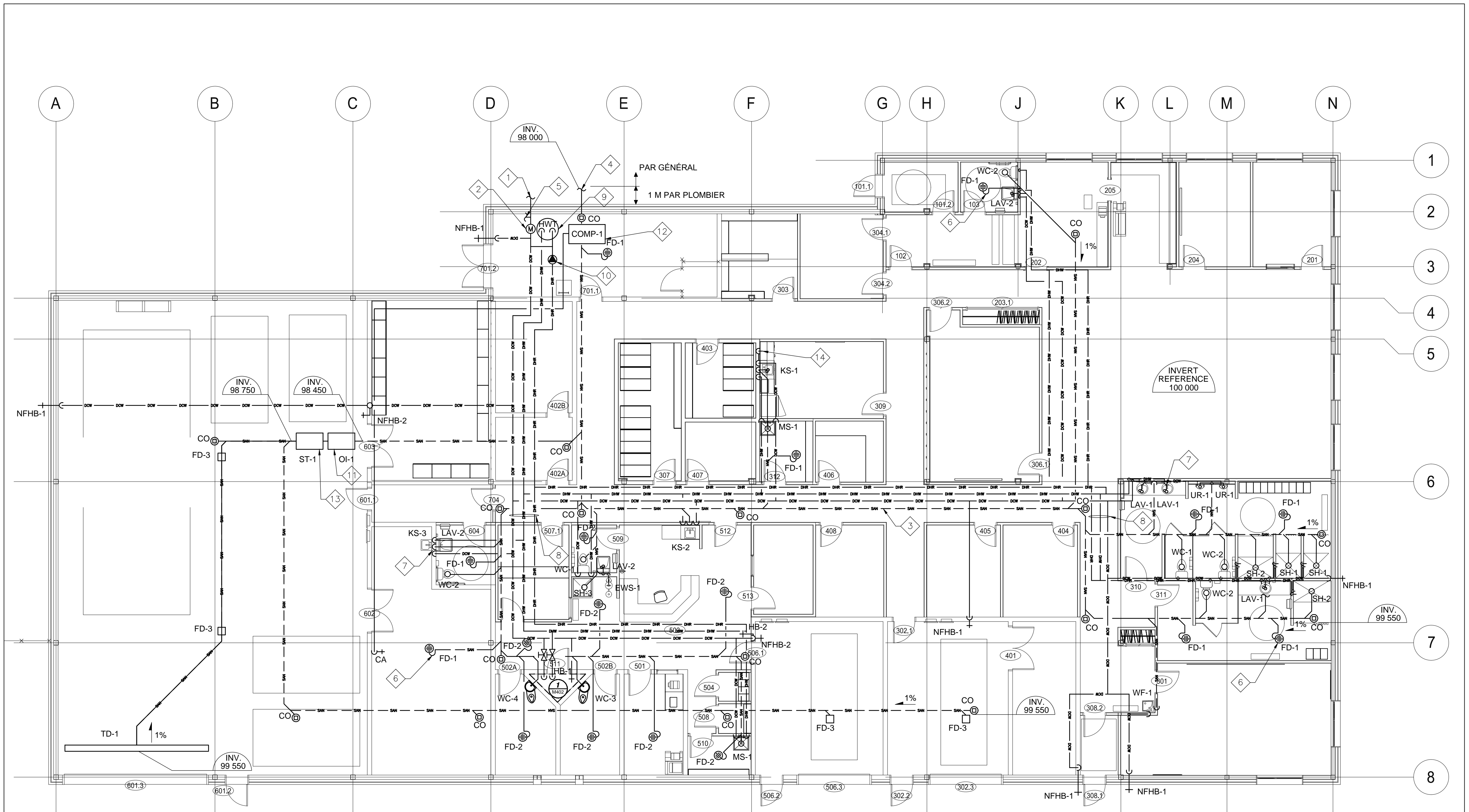
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dessin drawing
GROUND FLOOR FIRE PROTECTION

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M100



1 PLUMBING
M200 SCALE: 1 / 100

GENERAL NOTES

- COORDINATE PIPING LAYOUT WITH WORK OF ALL OTHER TRADES.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.
- LAYOUT, ROUTING AND LOCATIONS ARE INDICATIVE, CONTRACTOR IS TO VERIFY SITE CONDITIONS AND CO-ORDINATE INSTALLATION WITH ALL TRADES ON SITE.
- PROVIDE WALL SLEEVES FOR ALL PIPING PENETRATIONS THROUGH WALL. CO-ORDINATION LOCATION WITH OTHER TRADES.
- EXACT LOCATIONS AND INSTALLATION OF WALL HYDRANTS ARE TO BE CO-ORDINATED ON SITE AND APPROVED BY ENGINEER.
- PROVIDE BALL SHUT-OFF VALVES FOR ALL PLUMBING EQUIPMENT.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING FINISH AND STRUCTURE. HIDE THE WATER PIPES IN THE STRUCTURE OF THE WALLS OR ABOVE THE CEILING. PIPES SHOULD NOT BE VISIBLE. (TYPICAL.)
- FOR DRAWING CLARITY PLUMBING VENT PIPING AND ACCESSORIES ARE NOT SHOWN. INSTALLATION OF VENT PIPE AND PLUMBING DEVICES MUST COMPLY WITH THE REQUIREMENTS OF THE CODE.
- REFER TO SCHEMATIC DIAGRAM FOR PIPE SIZES ON M403.
- PROVIDE CLEANOUTS AT EVERY CHANGE OF DIRECTION AND MINIMUM EVERY 15 METERS OF PIPE LENGTH FOR SANITARY DRAIN SYSTEM.

DRAWING NOTES

- INCOMING WATER SERVICE: CO-ORDINATE LOCATION, AND PIPE INVERT WITH GENERAL CONTRACTOR. CONNECT TO THE FLANGED PIPE END INSIDE THE ROOM. PROVIDE PIPE TAKE-OFF FOR SPRINKLER SYSTEM. (TYPICAL) SEE 1/M400.
- INSTALL METER ACCORDING TO THE ENGINEER STANDARDS. PROVIDE CONDUIT AND WIRING FOR REMOTE READOUT STATION. FINAL LOCATION AS SITE DIRECTED.
- EXTEND SANITARY DRAIN PIPING AND CONNECT TO BUILDING'S MAIN DRAIN DISCHARGE PIPE. REVIEW SITE SERVICES DRAWINGS. CO-ORDINATE FINAL LOCATION, SIZE AND PIPE INVERT WITH GENERAL CONTRACTOR PRIOR TO PIPE INSTALLATION. (TYPICAL)
- APPROXIMATE CONNECTION TO MAIN SANITARY SEWER DRAIN PIPE. EXTEND SEWER PIPE 1.0m PASSED THE BUILDING WALLS. PROVIDE TRANSITION TO 200mm DIAMETER PIPE. COORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR. (TYPICAL)
- TO SPRINKLER SYSTEM, REFER TO SCHEMATIC. SEE 1/M400.
- PROVIDE PRIMER LINE FOR EACH FLOOR DRAIN. (TYPICAL)
- PROVIDE TRAP SEAL PRIMER UNDER SINK AND EXTEND TUBING TO FLOOR DRAIN LOCATION OF TRAP SEAL PRIMERS IS SHOWN AS GENERAL INFORMATION ONLY. CONTRACTOR SHALL INSTALL TSP AT CLOSEST FIXTURE TO EACH FLOOR DRAIN. (TYPICAL)
- AS REQUIRED BY THE NATIONAL PLUMBING CODE 2005 PARAGRAPH 2.6.1.9 PROVIDE WATER HAMMER ARRESTORS ON HOT AND COLD WATER LINES SERVING GROUP OF PLUMBING FIXTURES. (12 LOCATIONS MINIMUM).
- ELECTRIC HOT WATER HEATER.
- RECIRCULATION PUMP AND ACCESSORIES FOR DOMESTIC HOT WATER SYSTEM.
- PROVIDE OIL INTERCEPTOR, OI-1, REFER TO DETAILS ON DRAWING M400 AND SCHEDULES ON DRAWING M403.
- PROVIDE COMPRESSOR AND ASSOCIATED SYSTEMS. REFER TO SCHEDULE ON DRAWING M400 FOR DETAILS.
- PROVIDE SAND INTERCEPTOR, ST-1. REFER TO DETAILS ON DRAWING M400 AND SCHEDULES ON DRAWING M403.
- PROVIDE ROUGH-INS FOR COFFEE MACHINE (MACHINE PROVIDED BY CLIENT).

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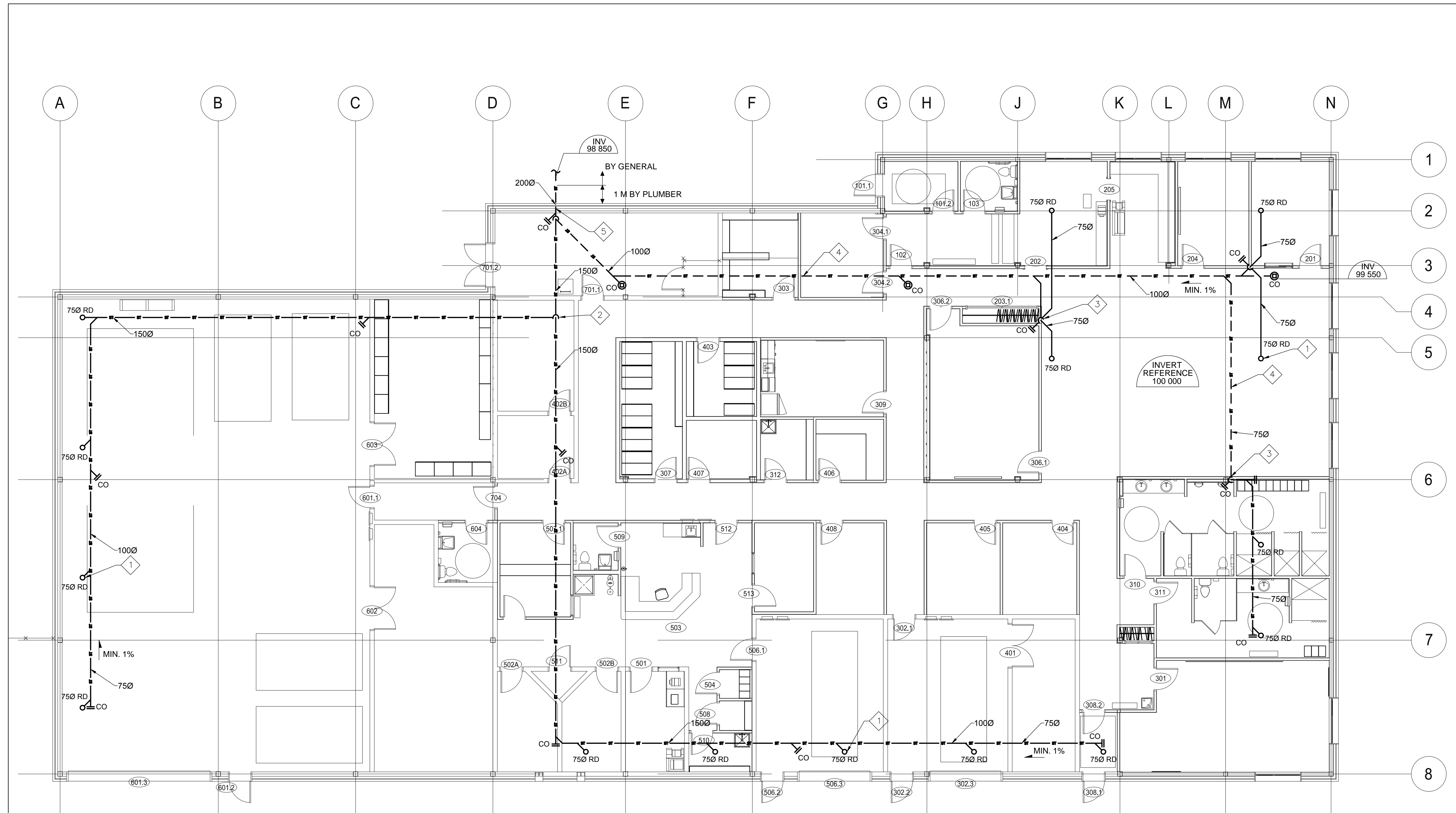
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GROUNDFLOOR PLUMBING			
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M200			



1 STORM DRAINAGE
M201 SCALE: 1/100

GENERAL NOTES

1. CO-ORDINATE PIPING LAYOUT WITH WORK OF ALL OTHER TRADES.
2. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.
3. LAYOUT, ROUTING AND LOCATIONS ARE INDICATIVE, CONTRACTOR IS TO VERIFY SITE CONDITIONS AND CO-ORDINATE INSTALLATION WITH ALL TRADES ON SITE.
4. PROVIDE WALL SLEEVES FOR ALL PIPING PENETRATIONS THROUGH WALL. CO-ORDINATION LOCATION WITH OTHER TRADES.
5. REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING FINISH AND STRUCTURE. HIDE THE WATER PIPES IN THE STRUCTURE OF THE WALLS OR ABOVE THE CEILING. PIPES SHOULD NOT BE VISIBLE. (TYPICAL.)

DRAWING NOTES

1. APPROXIMATE LOCATION OF ROOF DRAIN ON ROOF AND ROOF DRAIN OUTLET TO STORM SYSTEM. SEE ARCHITECTURAL DRAWINGS FOR INSTALLATION AND CONNECTION DETAILS. CONNECT RAIN WATER DRAIN PIPE TO THE ROOF DRAIN OUTLET. (TYPICAL.)
2. STORM DRAIN DOWN FROM HIGH GARAGE CEILING TO OFFICE CEILING SPACE.
3. RAIN WATER LEADER. PROVIDE CLEAN-OUT AND ACCESS DOOR AT THE BASE OF THE RISER. SEE ARCHITECTURAL DRAWINGS FOR PIPE ENCLOSURE DETAILS. (TYPICAL.)
4. UNDERSLAB RAIN WATER LEADER.
5. APPROXIMATE CONNECTION TO MAIN STORM DRAIN. EXTEND BUILDING STORM LINE 1.0 M PAST BUILDING WALLS. PROVIDE TRANSITION TO 2000mm PIPE. COORDINATE FINAL CONNECTION WITH GENERAL CONTRACTOR. (TYPICAL.)

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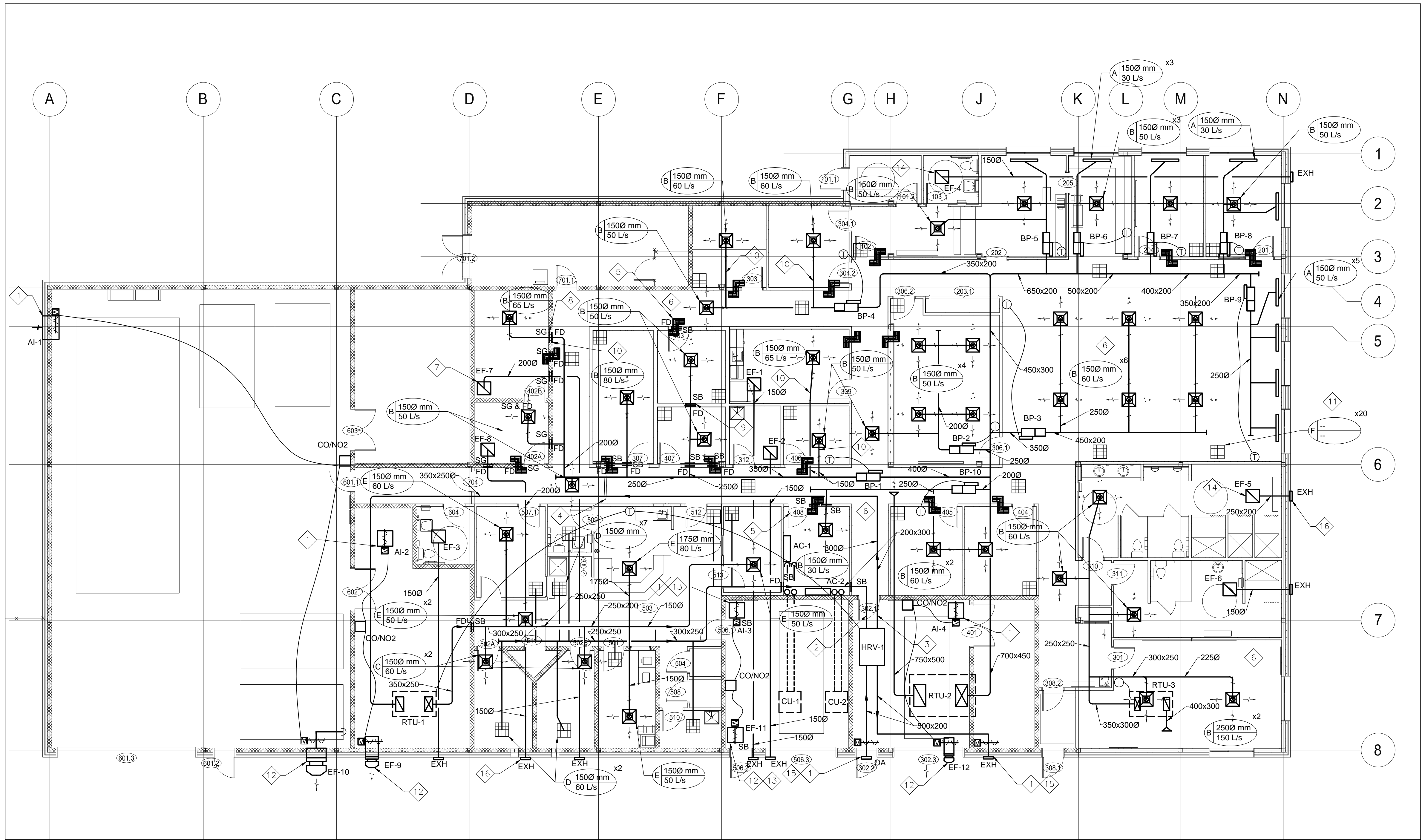
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dessin drawing
GROUND FLOOR STORM DRAINAGE

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M201



1 HVAC
M300 SCALE: 1 / 100

GENERAL NOTES

- CO-ORDINATE PIPING LAYOUT WITH WORK OF ALL OTHER TRADES.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS.
- LAYOUT, ROUTING AND LOCATIONS ARE INDICATIVE, CONTRACTOR IS TO VERIFY SITE CONDITIONS AND CO-ORDINATE INSTALLATION WITH ALL TRADES ON SITE.
- PROVIDE WALL SLEEVES FOR ALL DUCTWORK AND PIPING PENETRATIONS THROUGH WALL. CO-ORDINATION LOCATION WITH OTHER TRADES.
- INSTALLATION OF ALL HEAT PUMPS IS TO COMPLY WITH MANUFACTURER'S RECOMMENDATION.
- EXACT LOCATION AND INSTALLATION OF LOUVRES IS TO BE CO-ORDINATED ON SITE AND APPROVED BY ENGINEER.
- RUN DUCTWORK BETWEEN JOISTS (JOISTS ARE VERTICAL) FOR LOWER ROOF PORTION ONLY. HORIZONTAL RUNS MUST REMAIN UNDER 250 mm OR RUN THROUGH JOISTS. ALLOW FOR NECESSARY ELBOWS TO AVOID INTERFERENCES WITH STRUCTURAL DESIGN.
- PROVIDE BALANCING DAMPERS ON ALL SUPPLY DIFFUSER BRANCHES.

DRAWING NOTES

- INTAKE LOUVER COMPLETE WITH INSECT SCREEN. CO-ORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR. PROVIDE INSULATED PLENUM BEHIND THE LOUVER. PROVIDE MOTORIZED DAMPER INTERLOCK WITH THE UNIT.
- MAIN EXHAUST DUCT. (TYPICAL)
- MAIN OUTSIDE AIR DUCT. (TYPICAL)
- REVIEW ARCHITECTURAL DRAWINGS FOR CEILING, WINDOWS AND STRUCTURE TYPE AND ELEVATIONS. INSTALL EXPOSED DUCTWORK WITHOUT BLOCKING THE WINDOWS AND WITH MINIMUM EXPOSURE TO THE SPACE. KEEP HVAC COMPONENTS CONCEALED AS MUCH AS POSSIBLE. PAY EXTRA ATTENTION TO WORKMANSHIP AND FINISHES OF ALL EXPOSED COMPONENTS. (TYPICAL)
- RETURN AIR TRANSFER DUCT. SIZE EQUAL TO TOTAL SUPPLY AIR DUCTS CROSS SECTIONS. (TYPICAL)
- FOR EACH ROOM WITH TEE BAR CEILING. PROVIDE 600x300 EGGCRATE RETURN AIR GRILLE WITH ACOUSTICALLY LINED BOOTH. INSTALL GRILLE TO AVOID CONFLICT WITH OTHER SERVICES. (TYPICAL)
- PROVIDE NEW EXHAUST FAN COMPLETE WITH NEW DUCTWORK AND FIRE DAMPER. PROVIDE A MINIMUM OF TWO 90° ELBOWS. PROVIDE NEW STEEL SECURITY GRILLE. SEE DETAILS FOR MORE INFORMATION (TYPICAL).
- PROVIDE STEEL SECURITY GRILLE AND INSTALL TRANSFER GRILLE AS PER DETAIL 8/400. (INSTALLATION TYPE).
- PROVIDE SECURITY BARS FOR DUCTWORK SEE DETAIL 7/401 FOR MORE DETAILS.
- PROVIDE ACOUSTIC LINING ON ALL DUCTWORK IN THIS SPACE. TYPICAL.
- PROVIDE EGG CRATES FOR PROPER CEILING FINISH. REFER TO ARCHITECTURAL CEILING FINISHES TO IDENTIFY AREAS WITH T-BAR AND GYPSUM. TYPICAL.
- PROVIDE NEW EXHAUST FAN COMPLETE WITH LOUVER AND INSECT SCREEN. CO-ORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR. PROVIDE INSULATED PLENUM BEHIND THE LOUVER. CONNECT EXHAUST DUCT AS SHOWN. PROVIDE MOTORIZED DAMPER AND INTERLOCK WITH THE UNIT.
- PROVIDE NEW STEEL SECURITY GRILLE AT LOUVER OPENING.
- PROVIDE NEW EXHAUST FAN COMPLETE WITH DUCTWORK TO EXTERIOR WALL. SEE SPEC FOR WALL CAP. (TYPICAL)
- WALL CAP BY HRV-1 MANUFACTURER.
- COMPLETE WITH WALL CAP SEE SPEC FOR DETAILS.

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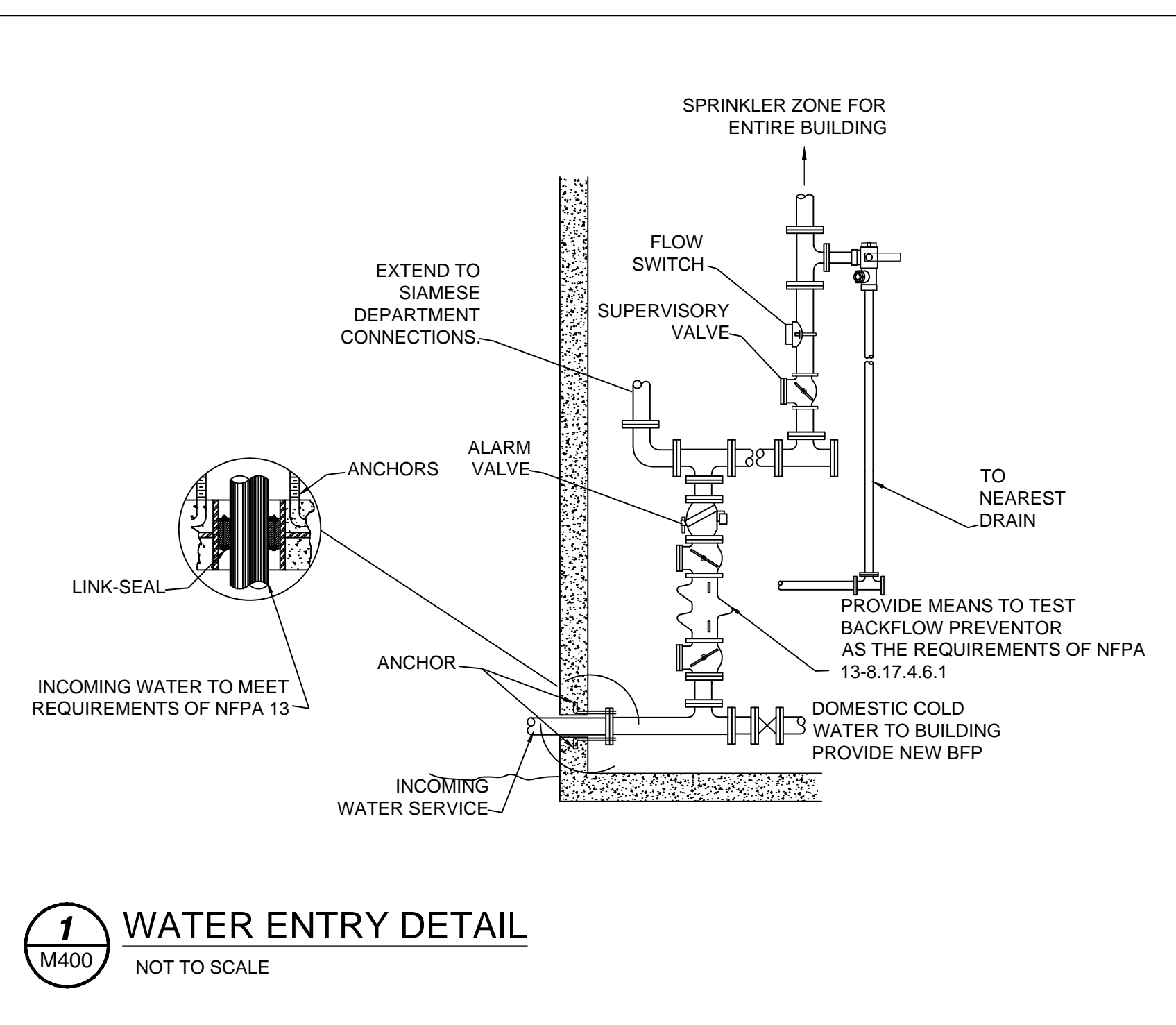
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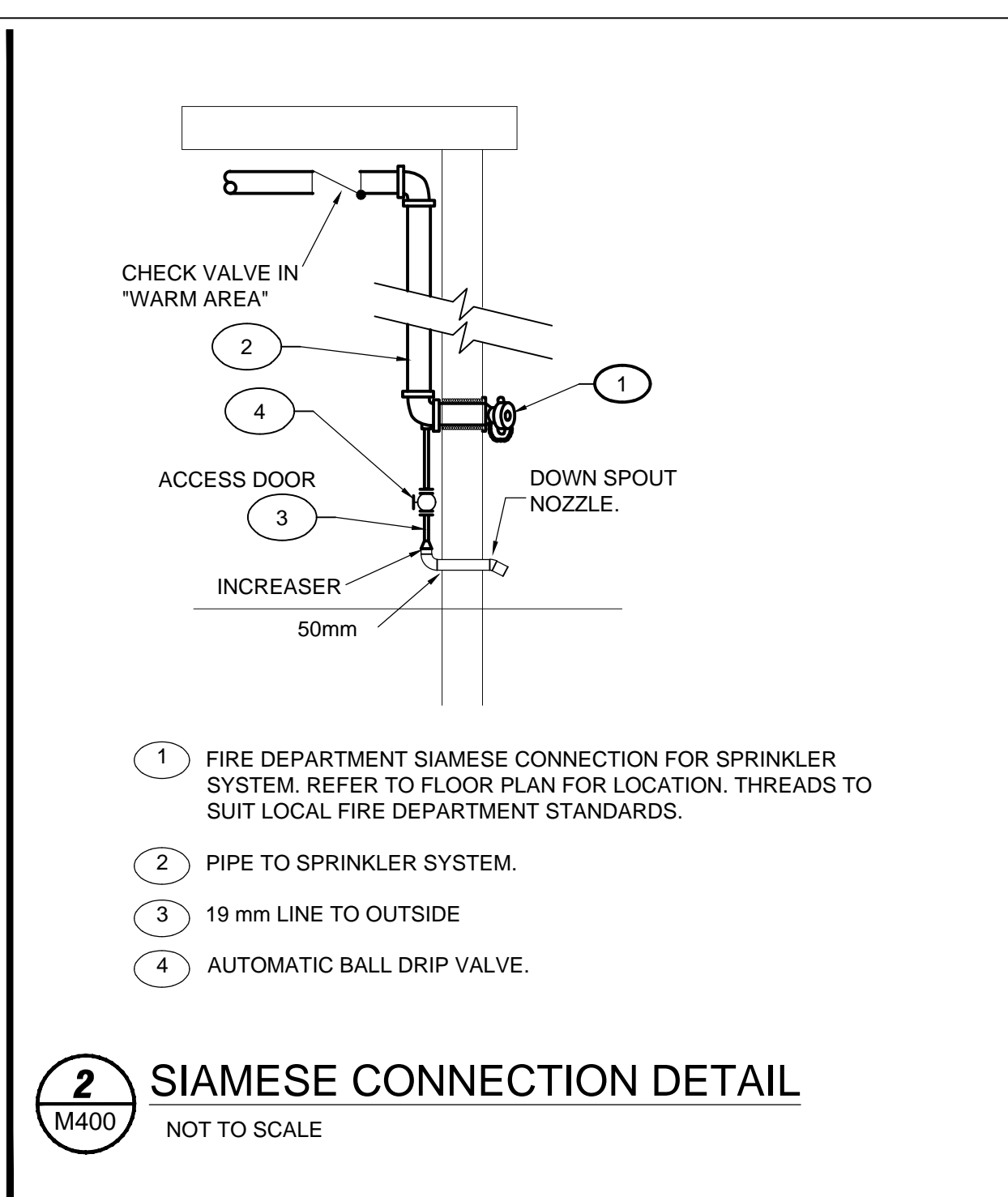
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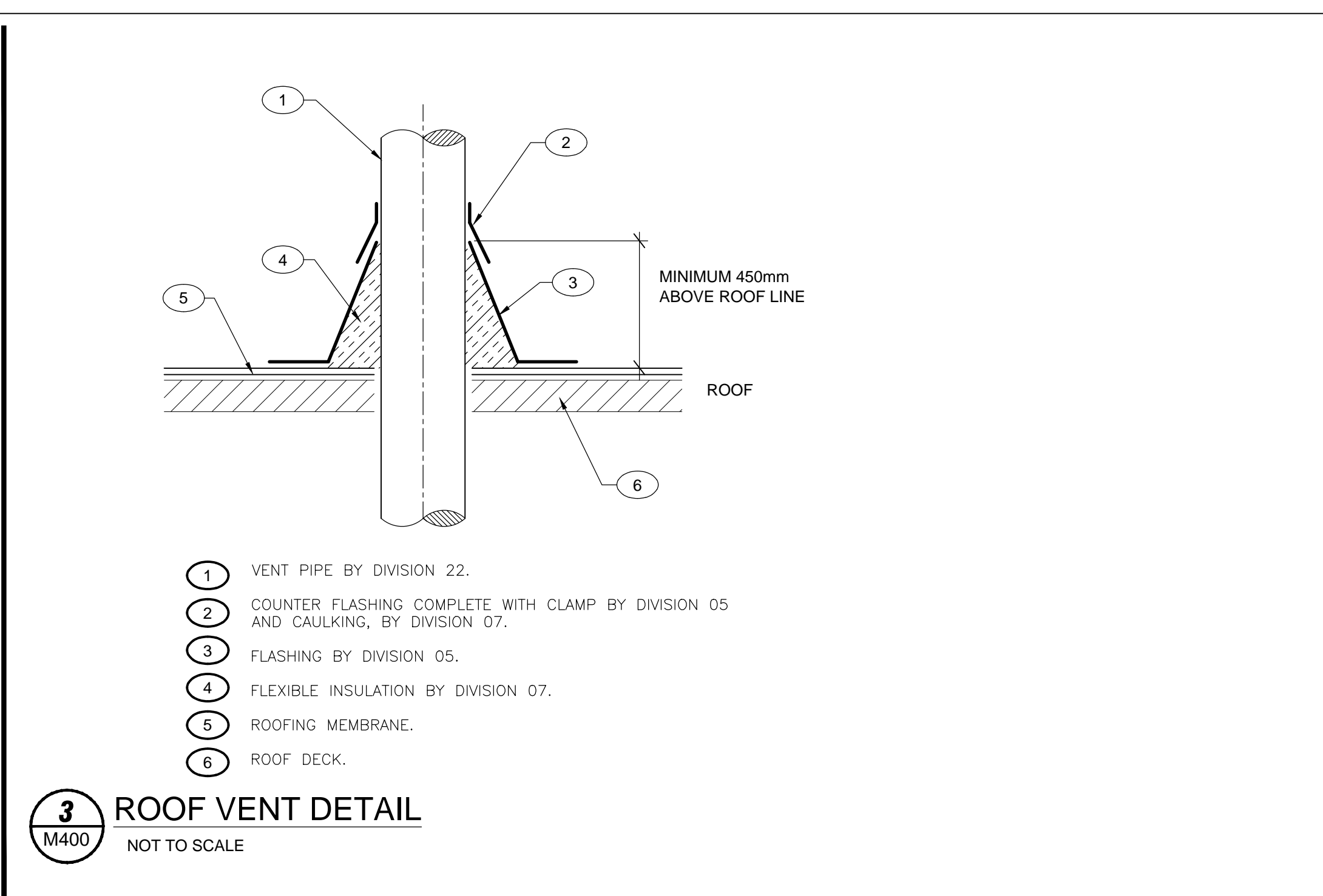
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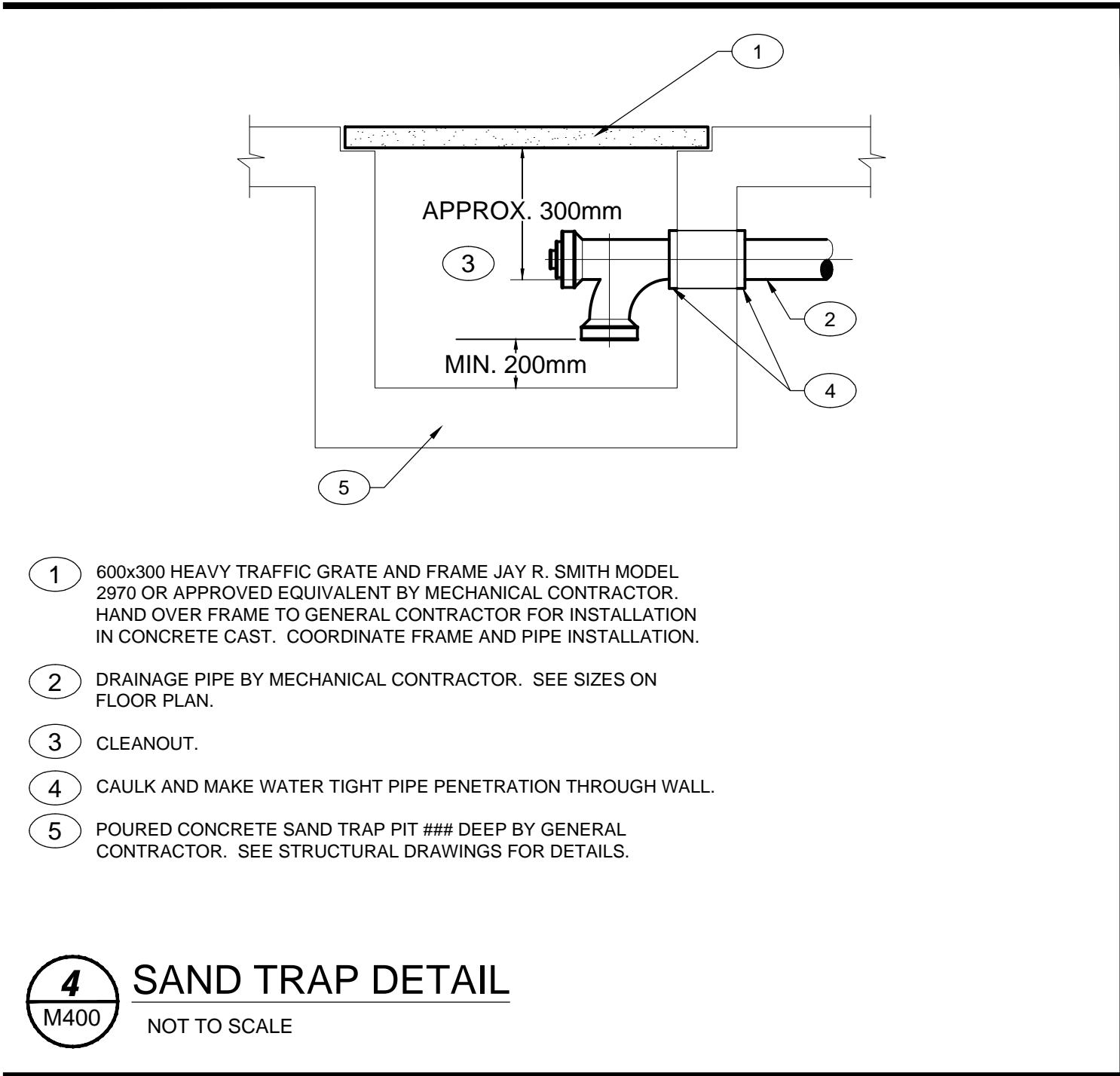
1 WATER ENTRY DETAIL
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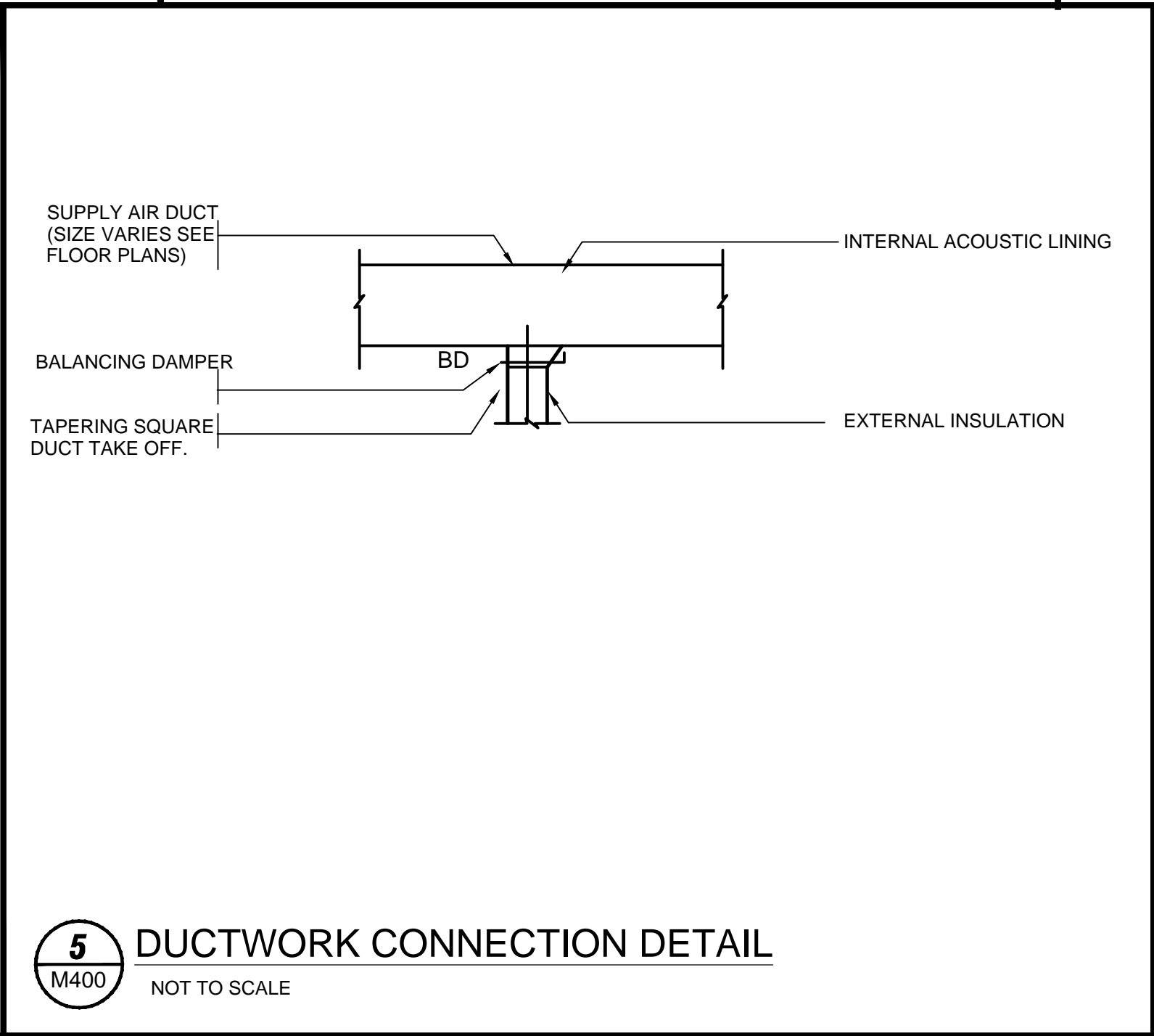
2 SIAMESE CONNECTION DETAIL
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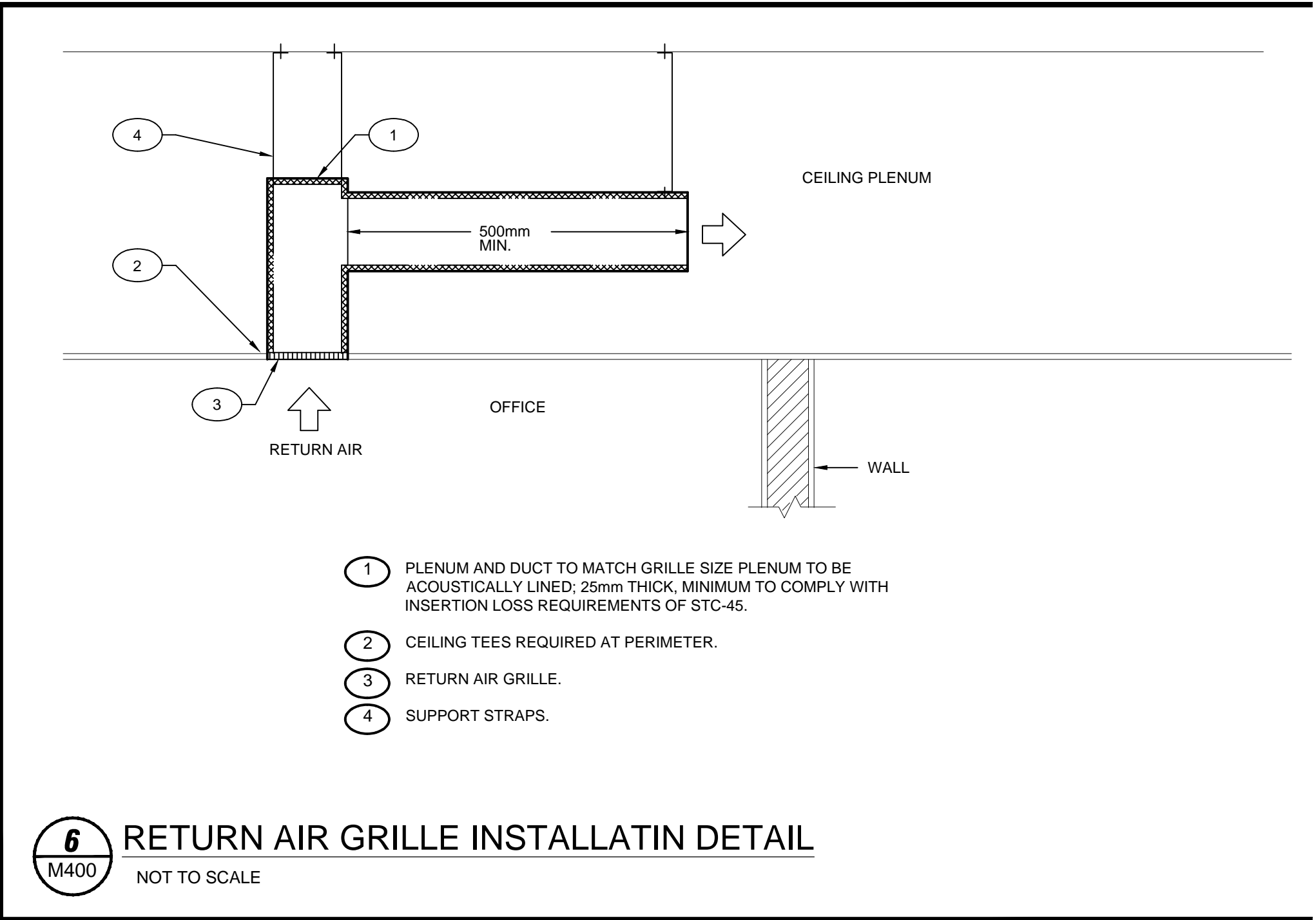
3 ROOF VENT DETAIL
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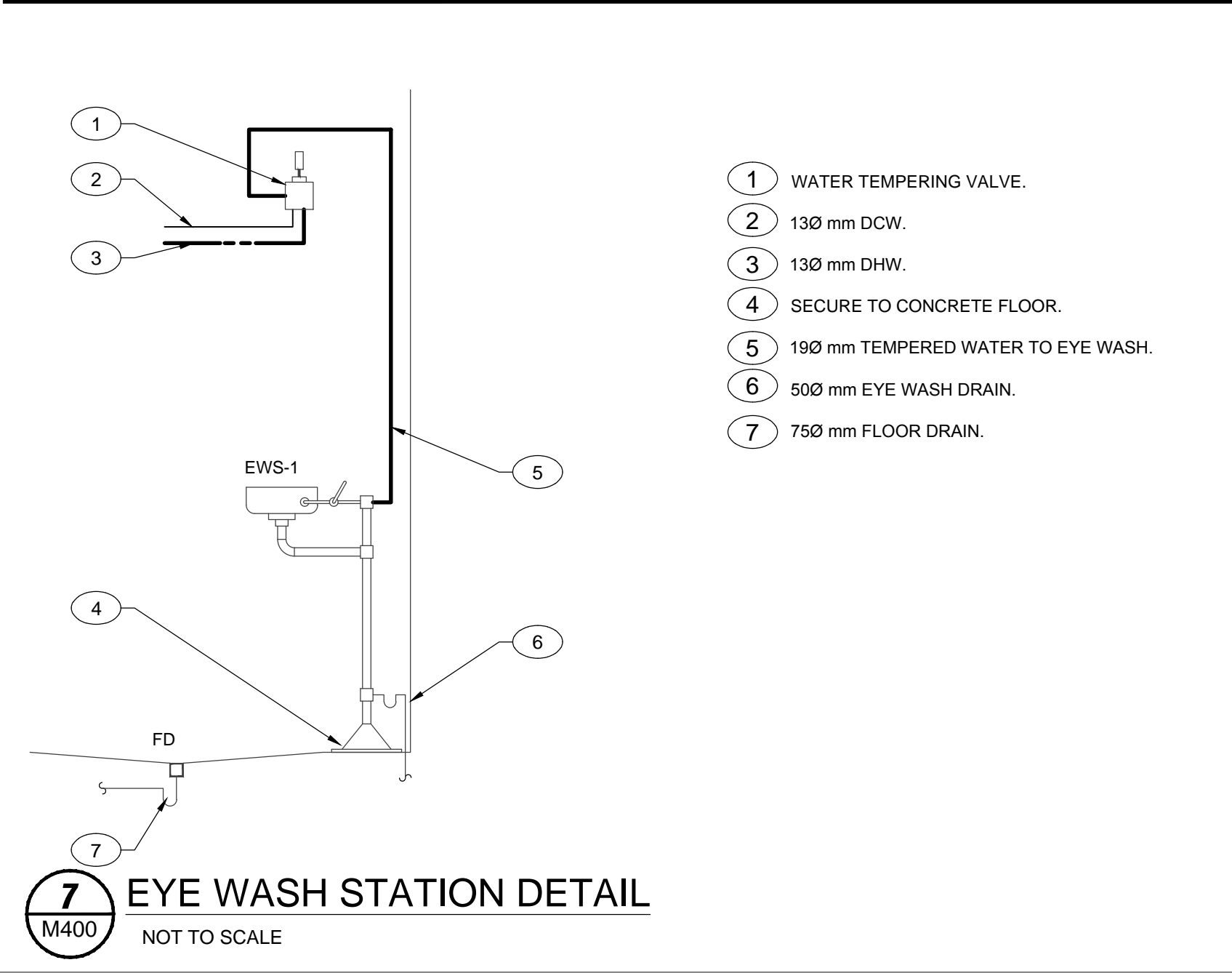
4 SAND TRAP DETAIL
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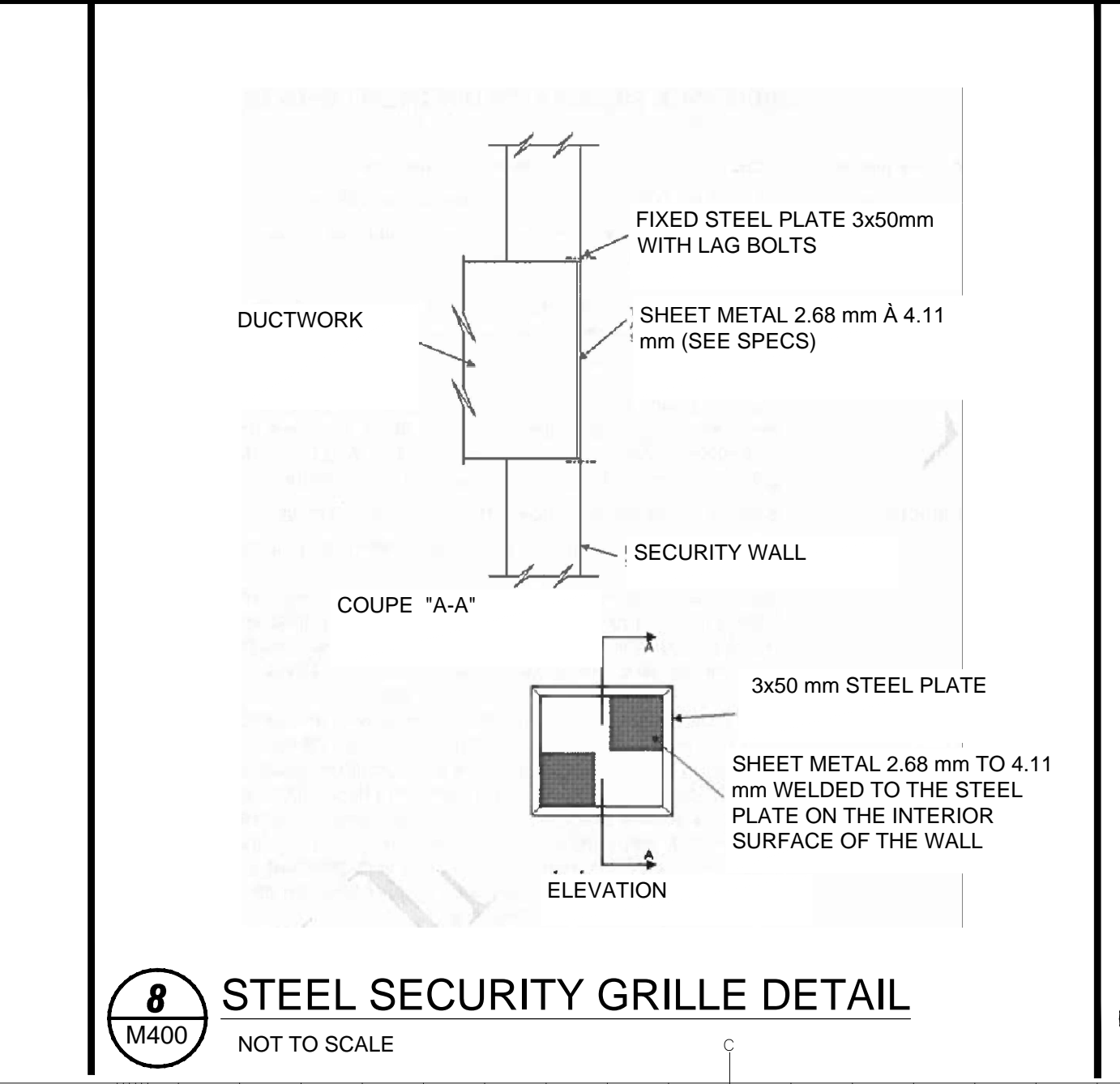
5 DUCTWORK CONNECTION DETAIL
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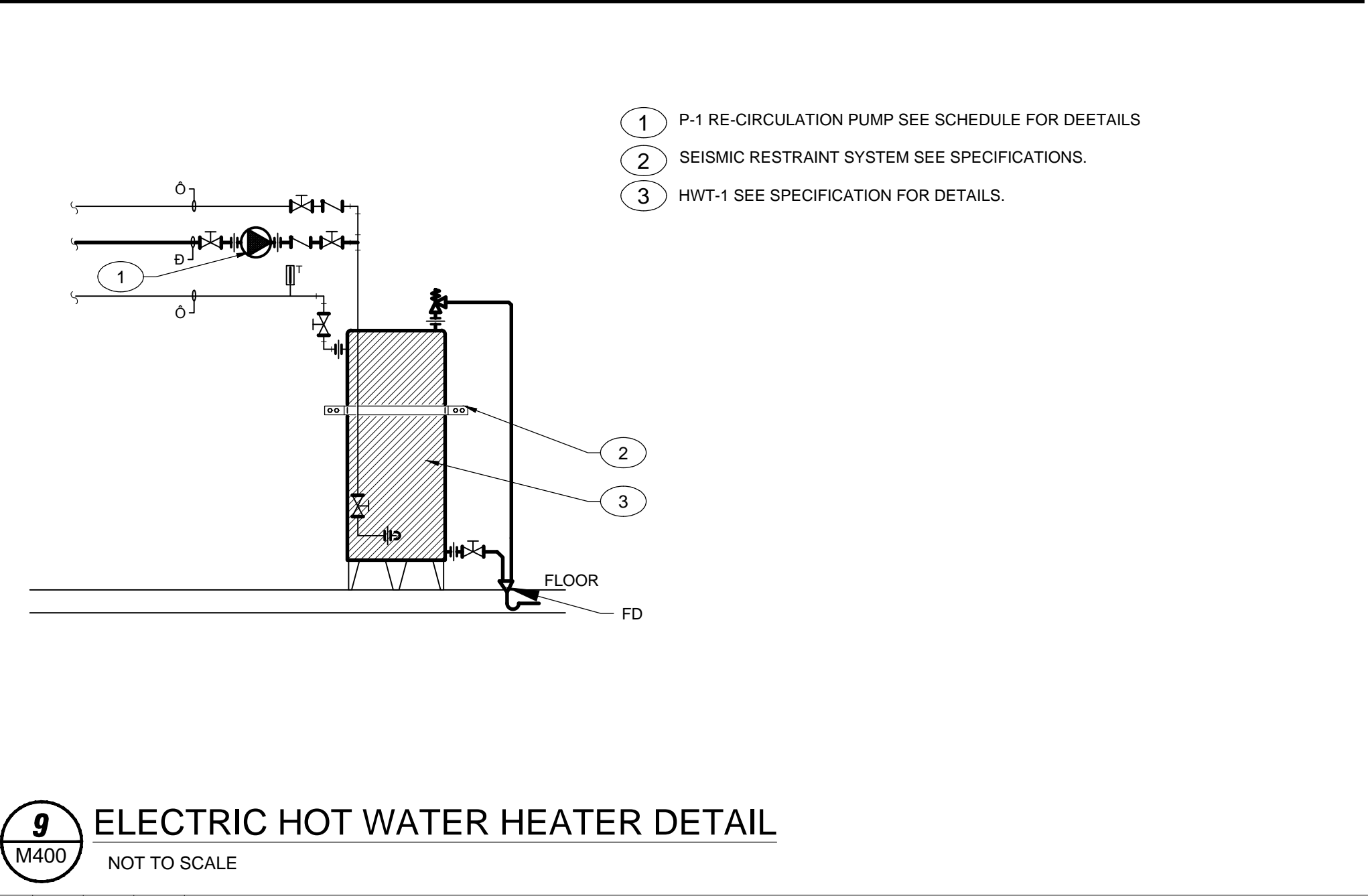
6 RETURN AIR GRILLE INSTALLATIN DETAIL
M400 NOT TO SCALE



7 EYE WASH STATION DETAIL
M400 NOT TO SCALE



8 STEEL SECURITY GRILLE DETAIL
M400 NOT TO SCALE



9 ELECTRIC HOT WATER HEATER DETAIL
M400 NOT TO SCALE

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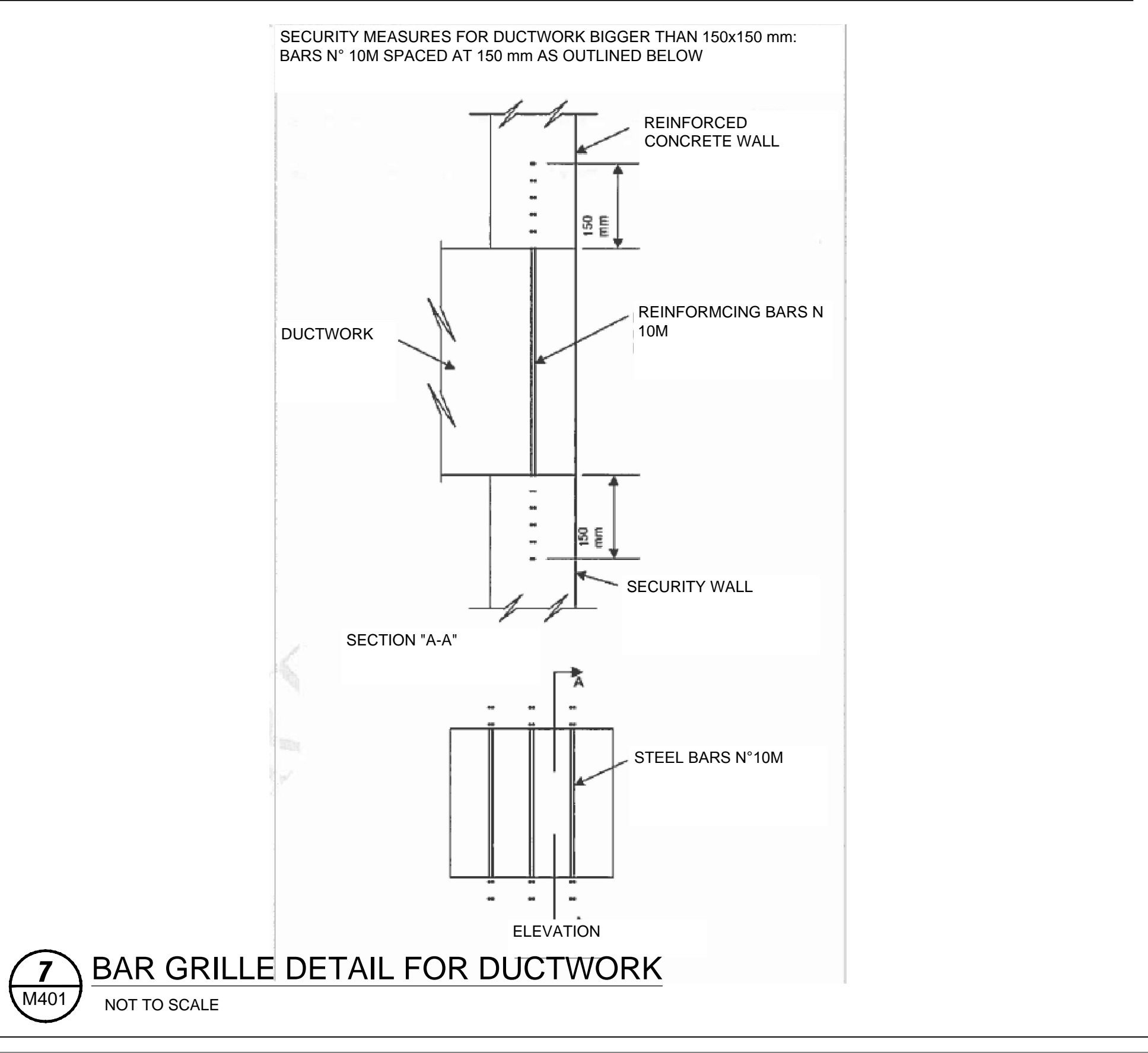
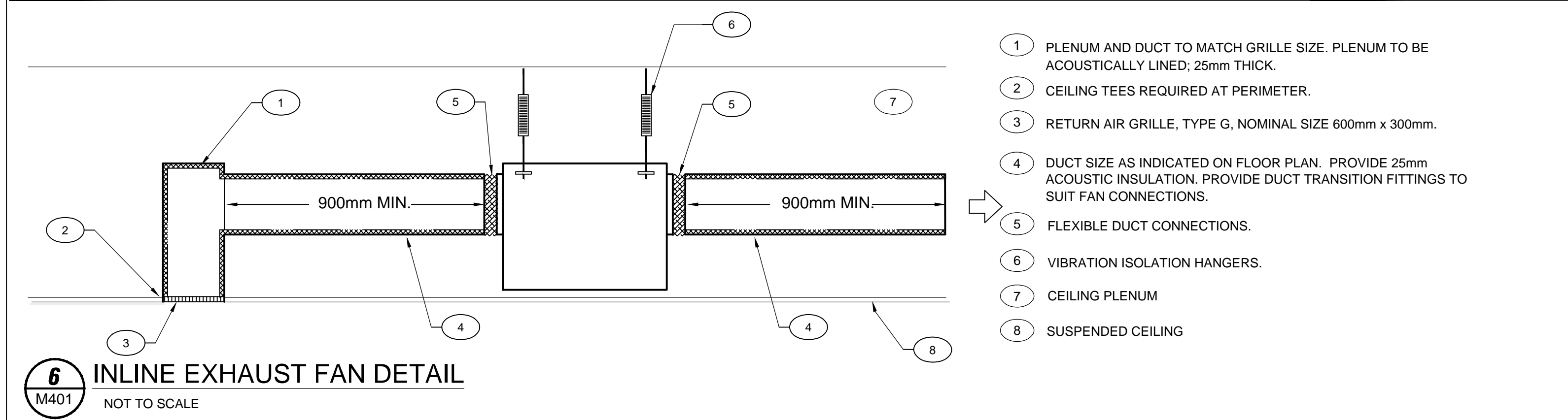
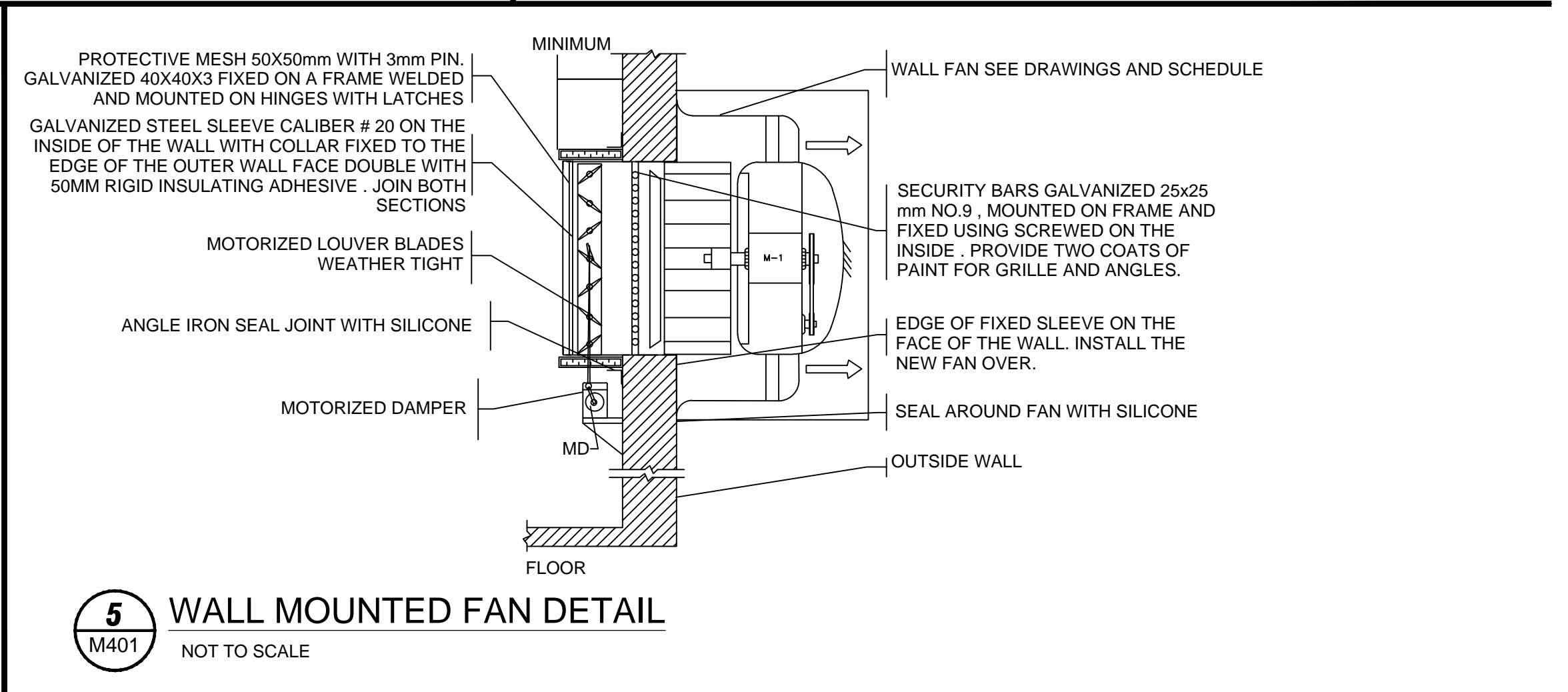
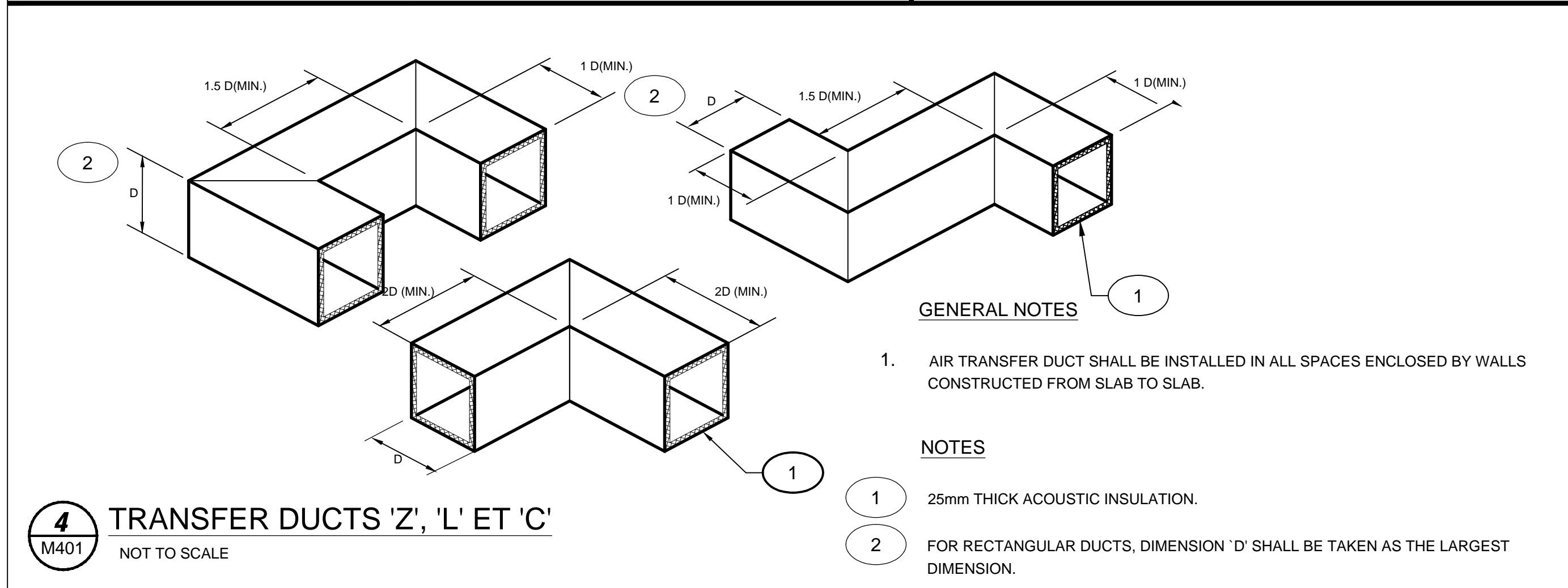
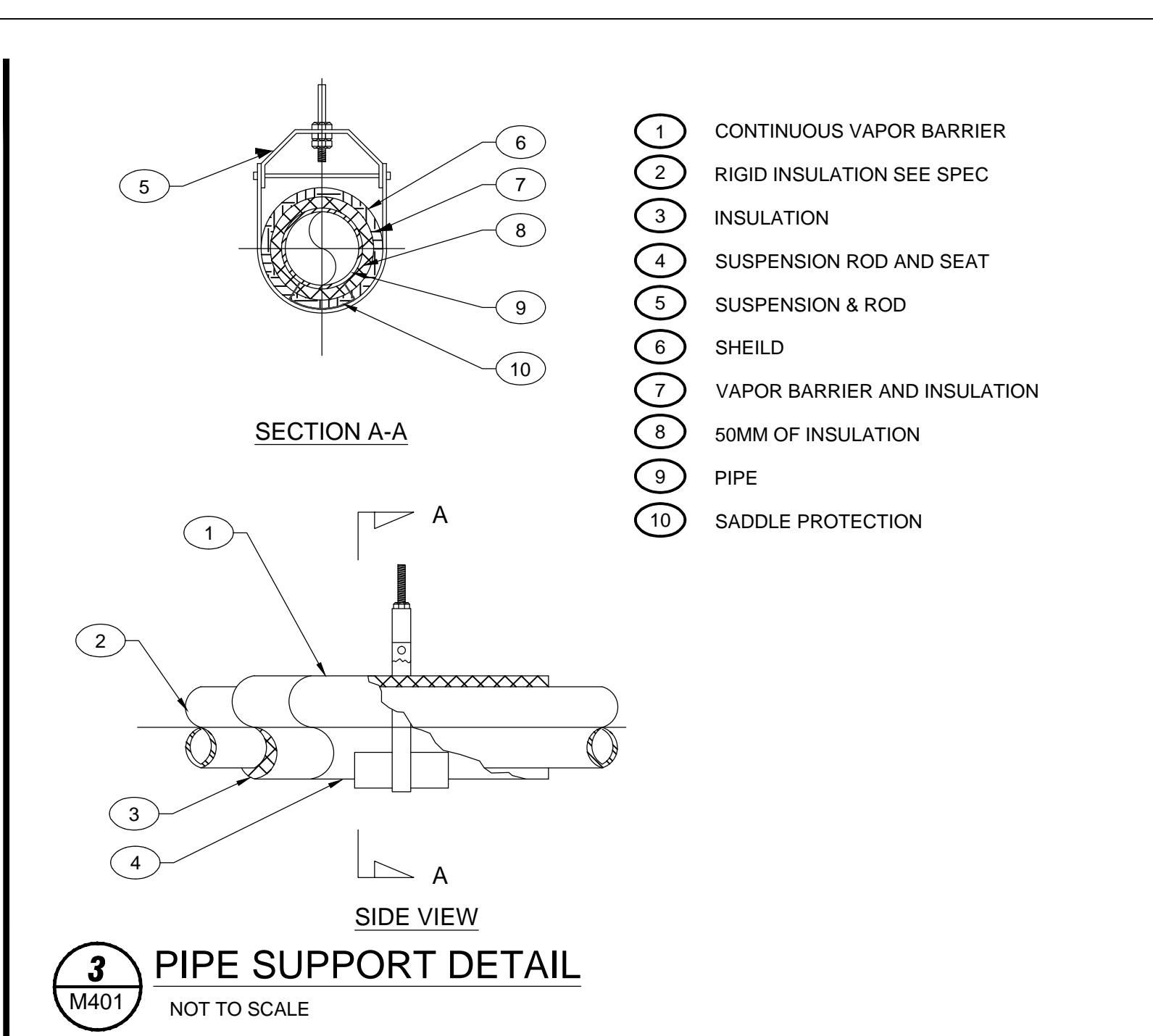
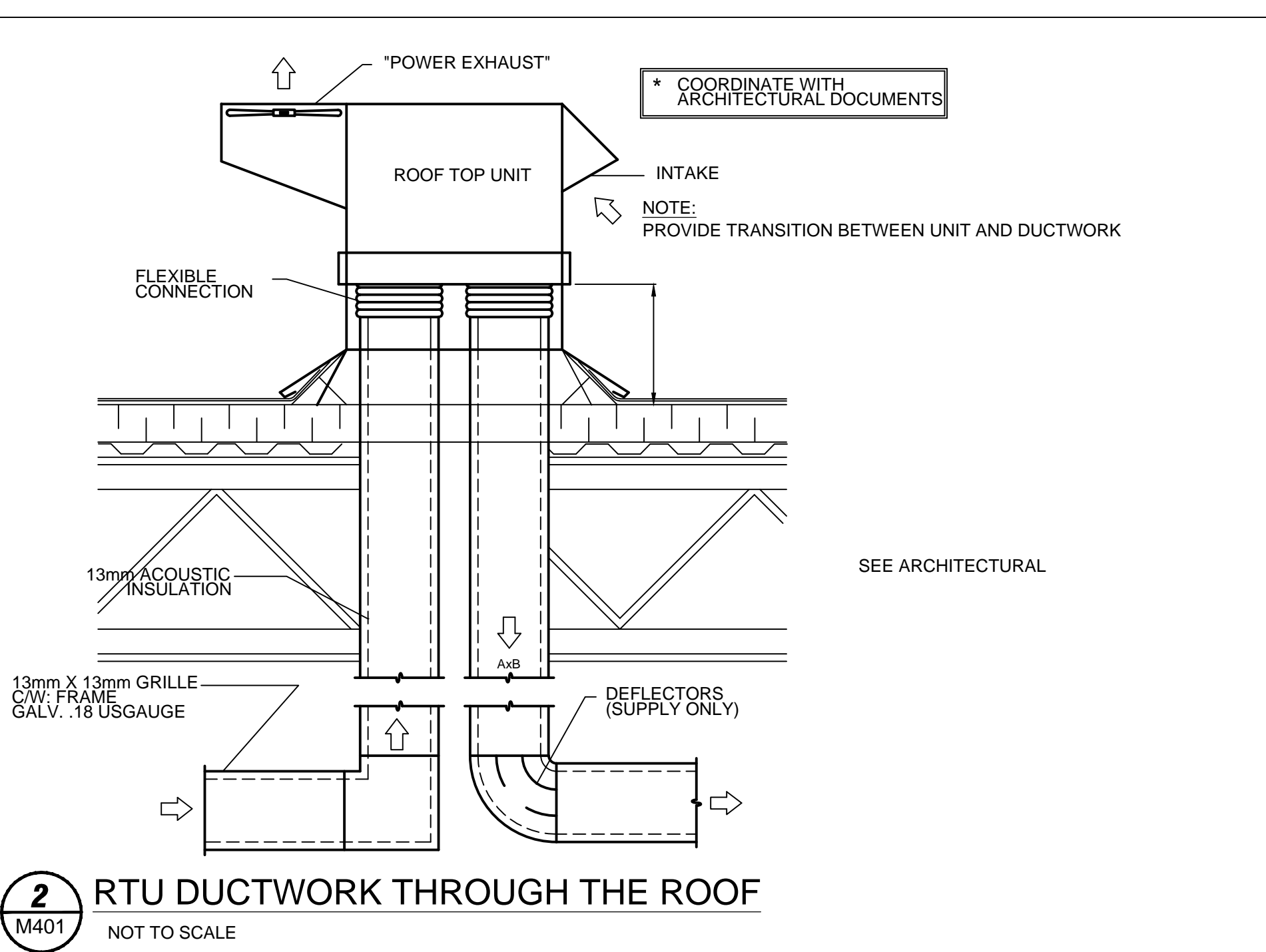
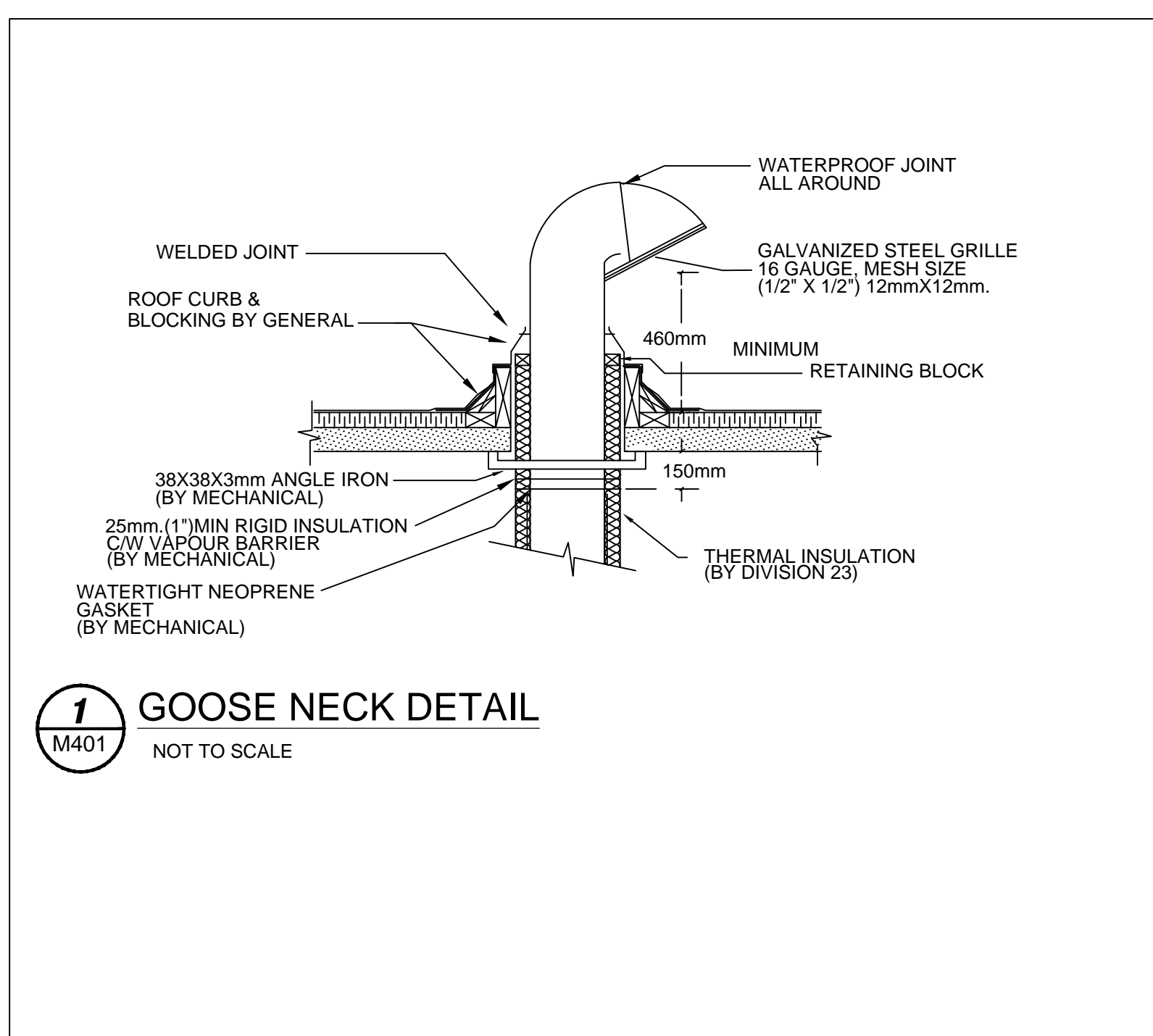
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plan-répert	key plan	
scscau	stamp	
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no.	description	date
RÉVISION		

projet
New Building Construction, Sept-Îles, Québec
1501, boulevard Laure, Sept-Îles, QC

dessin
DETAILS PAGE 1
drawing

conception	design	no. dossier	project no.
GT	DFS 5001	CIMA A000566A	
dessiné	drawn	fichier DAO	CAD file
GT			
approuvé	approved	dossier client	client file
GT			DFS
échelle	scale	imprimé	plot date
AS SHOWN			
no. page	sheet number	rev	
M400			



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projet

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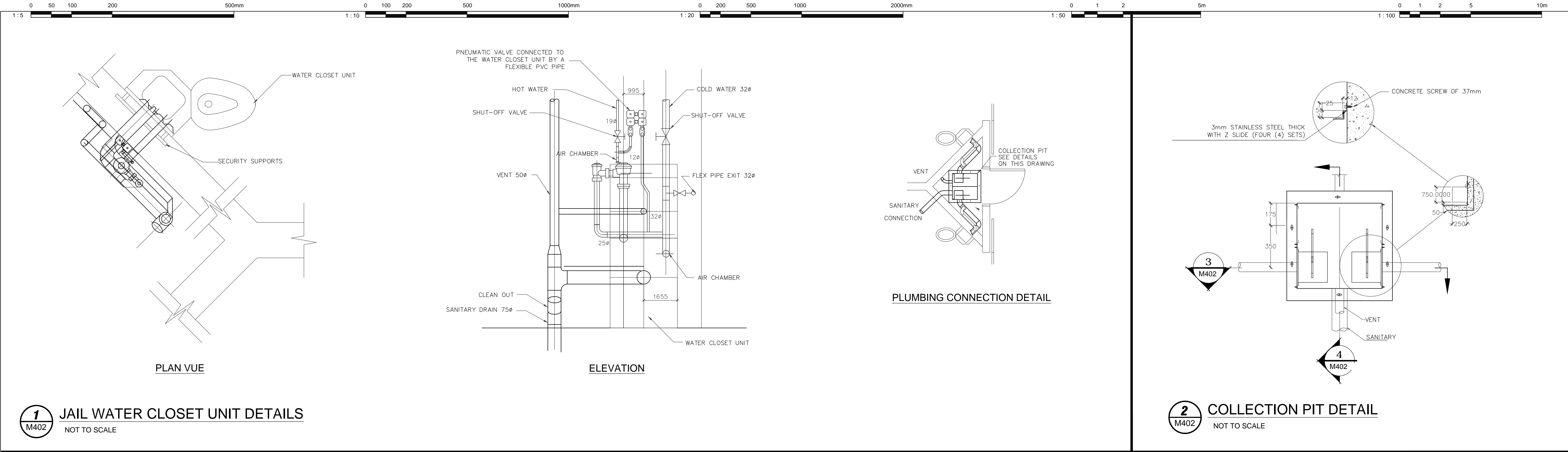
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dessin

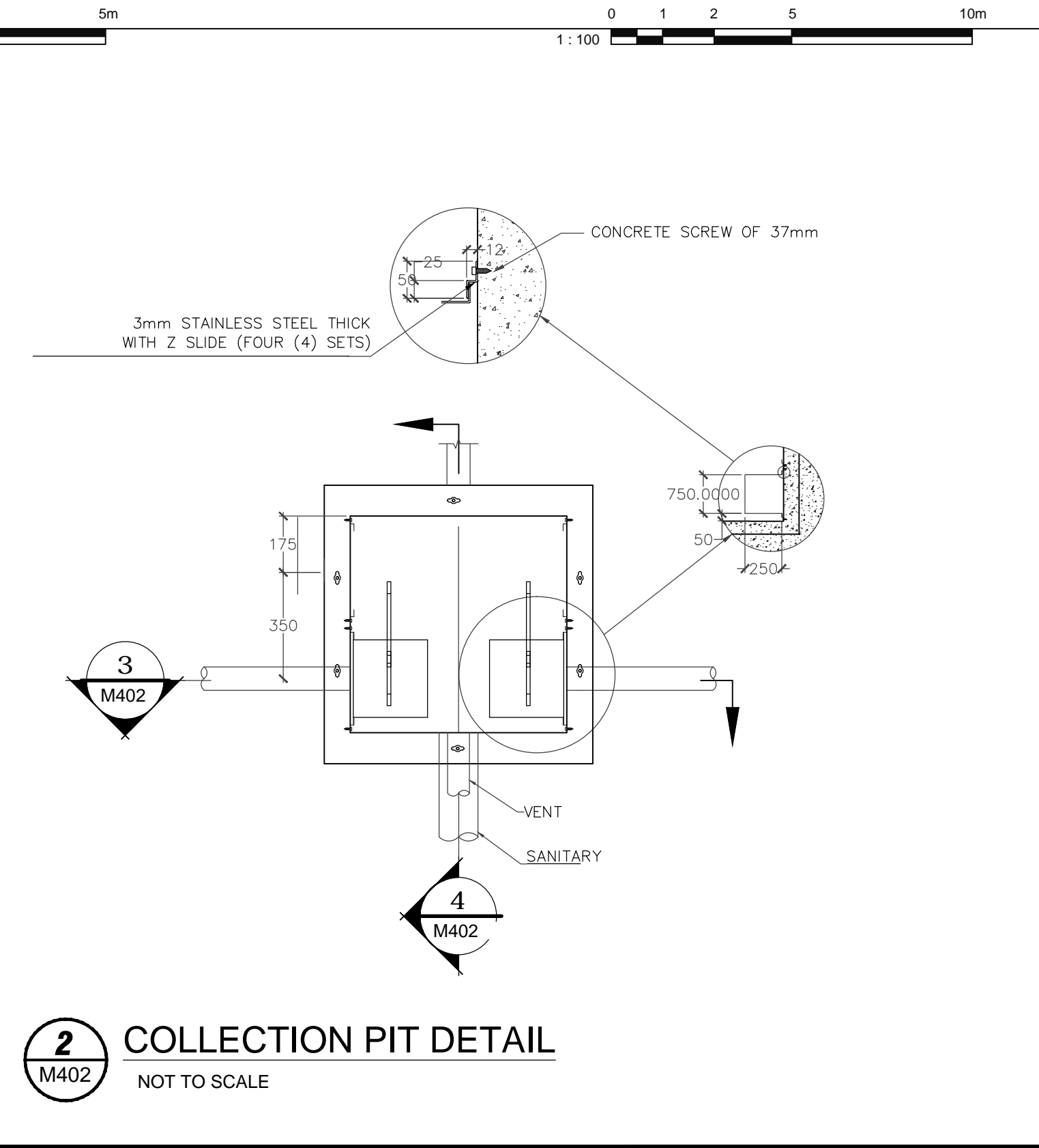
DETAILS PAGE 2

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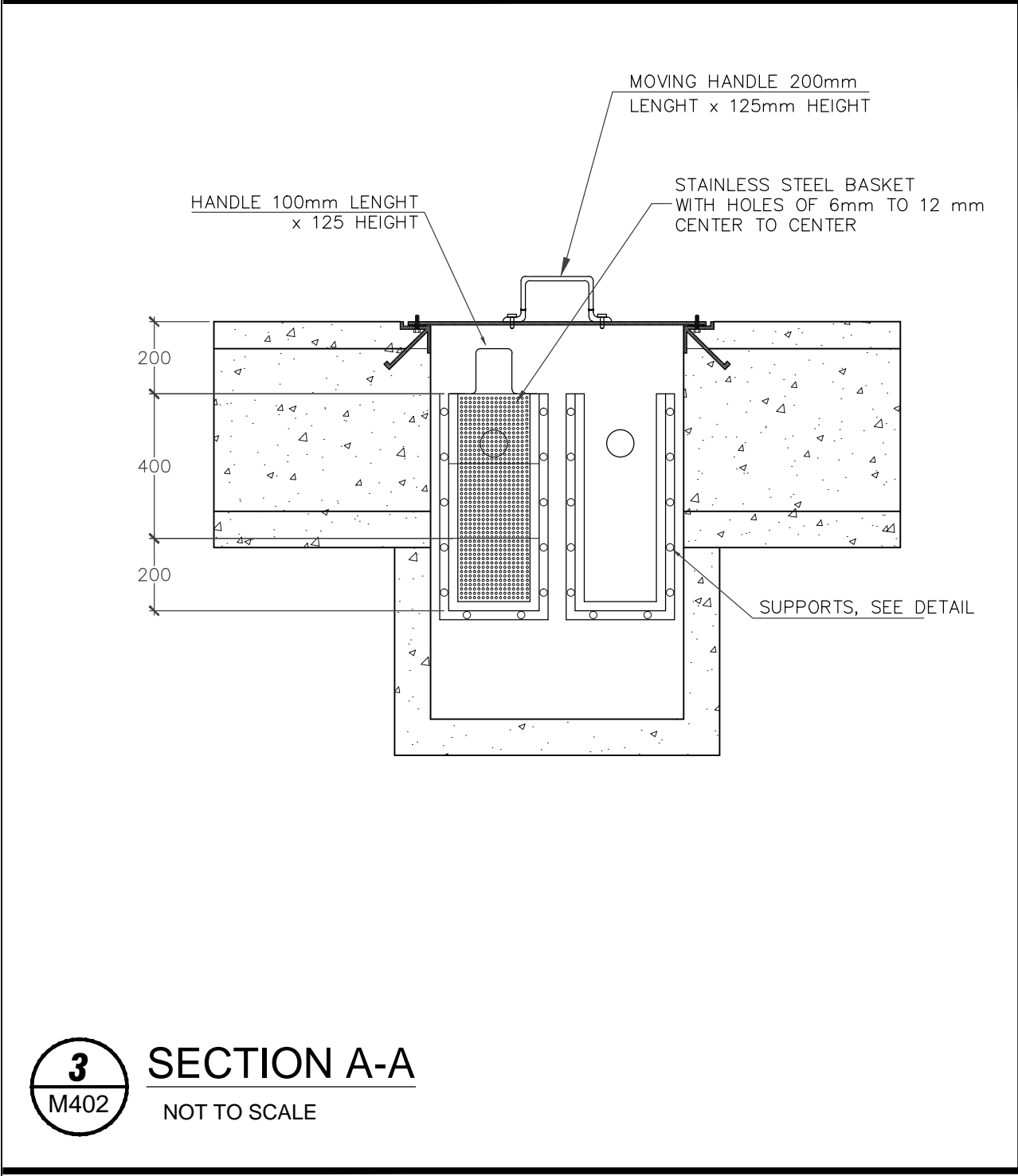
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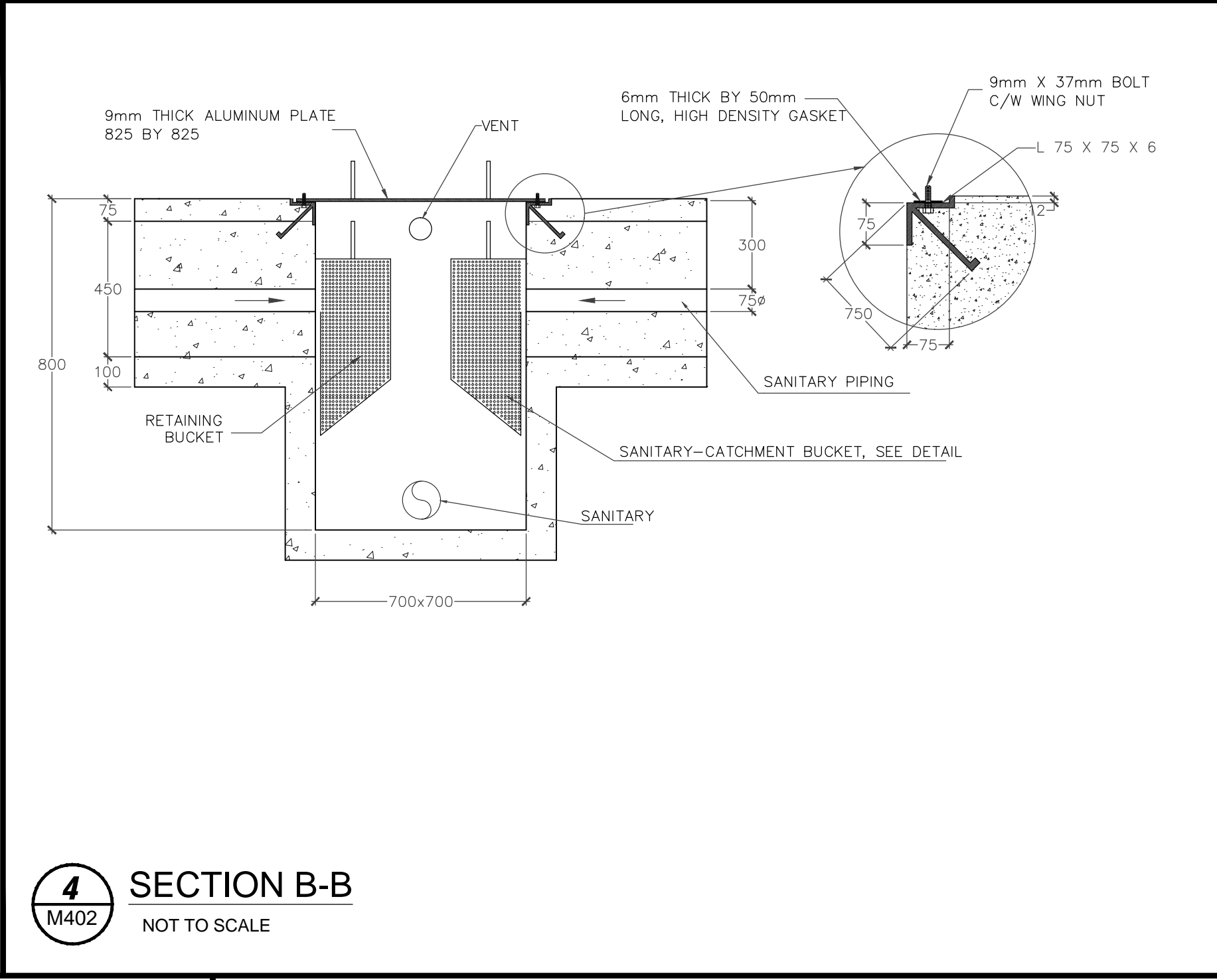
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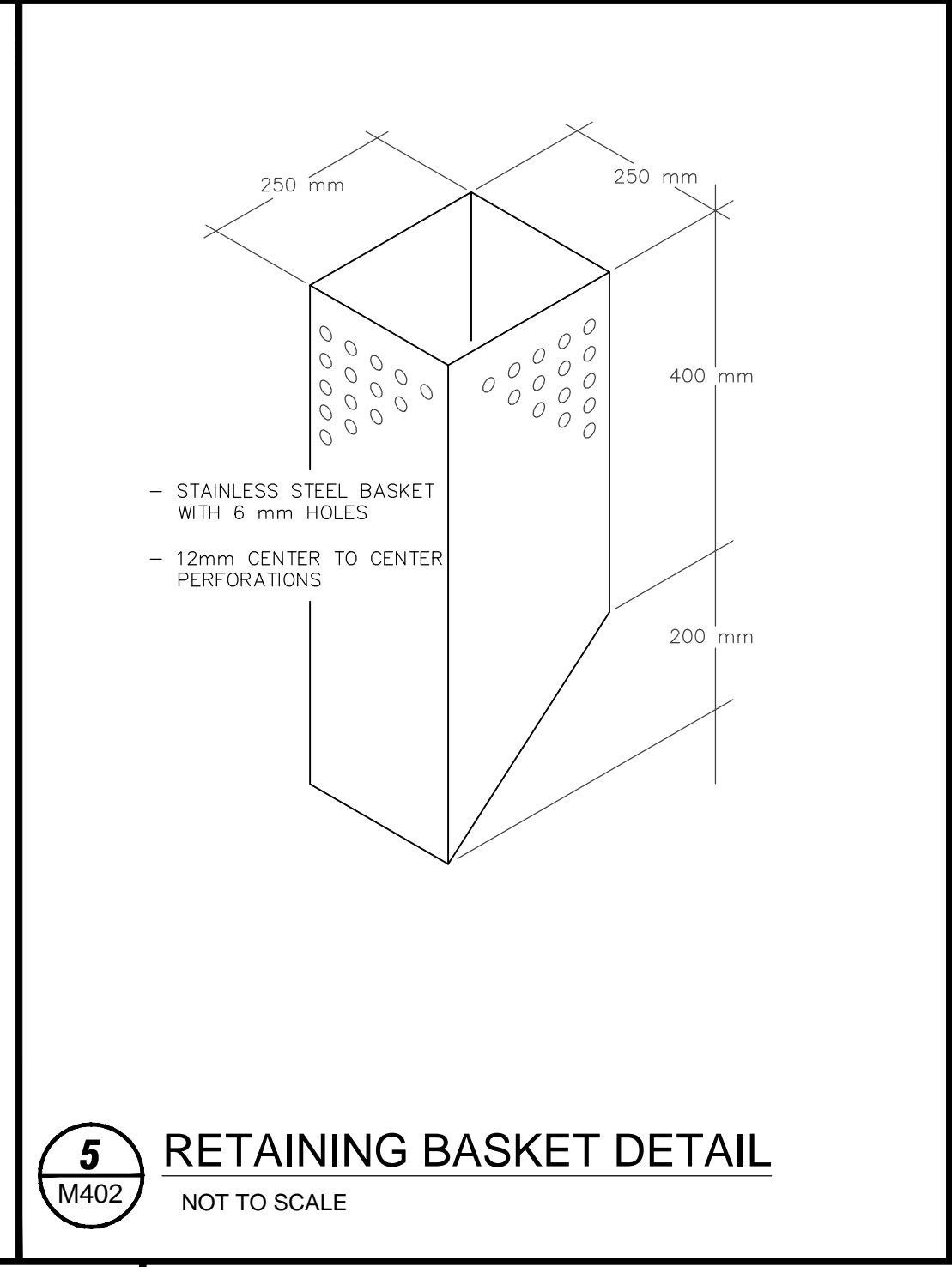
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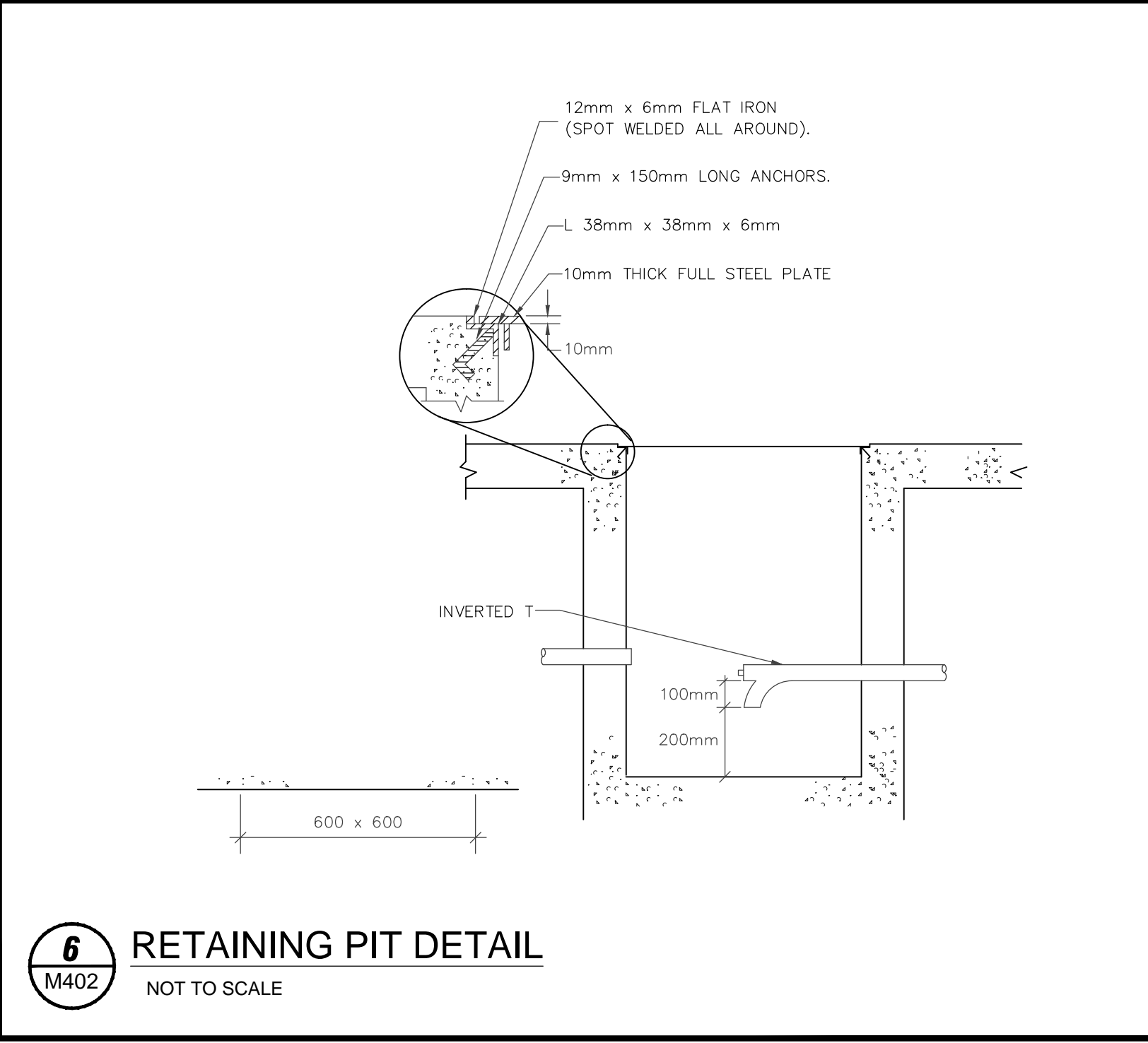
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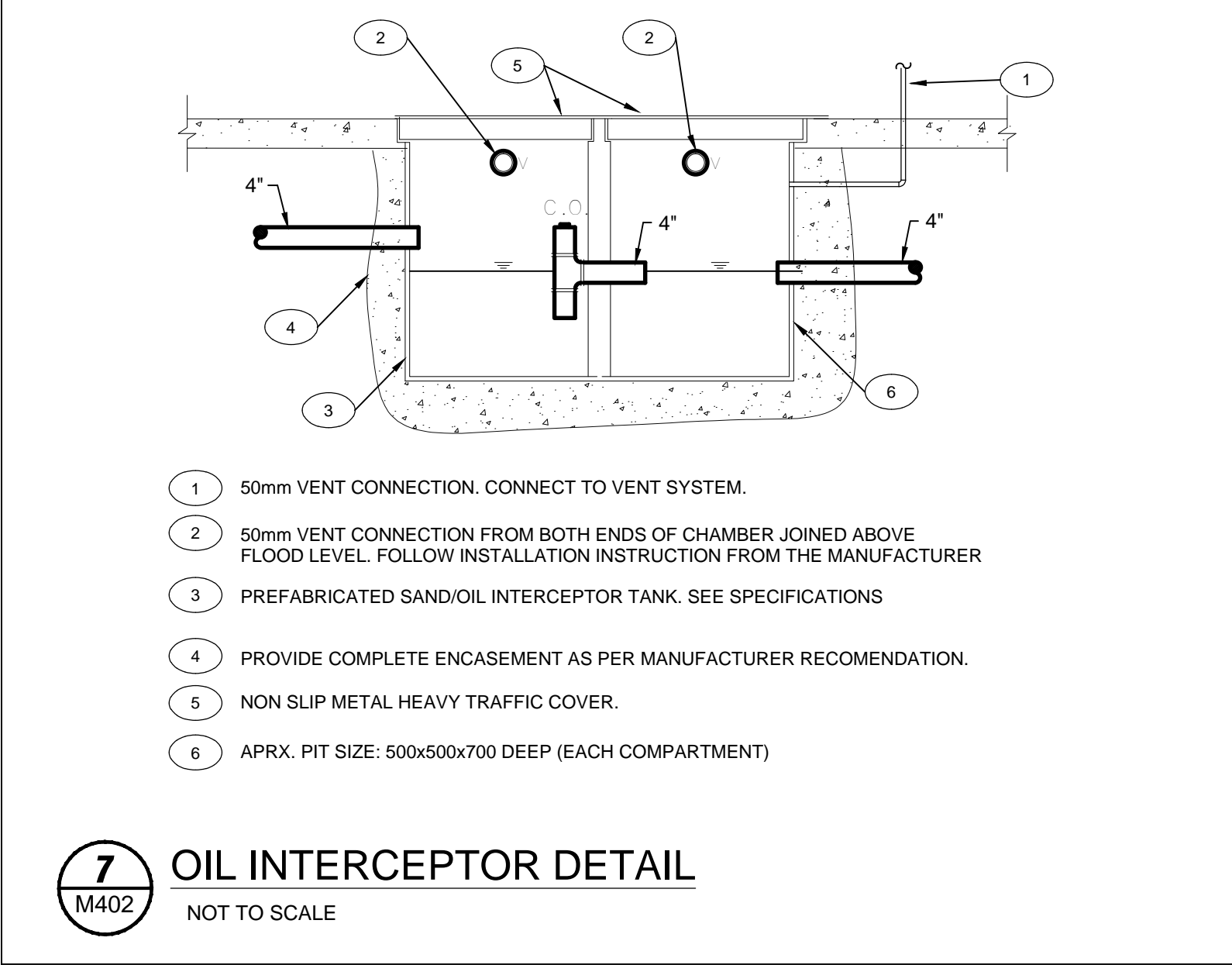
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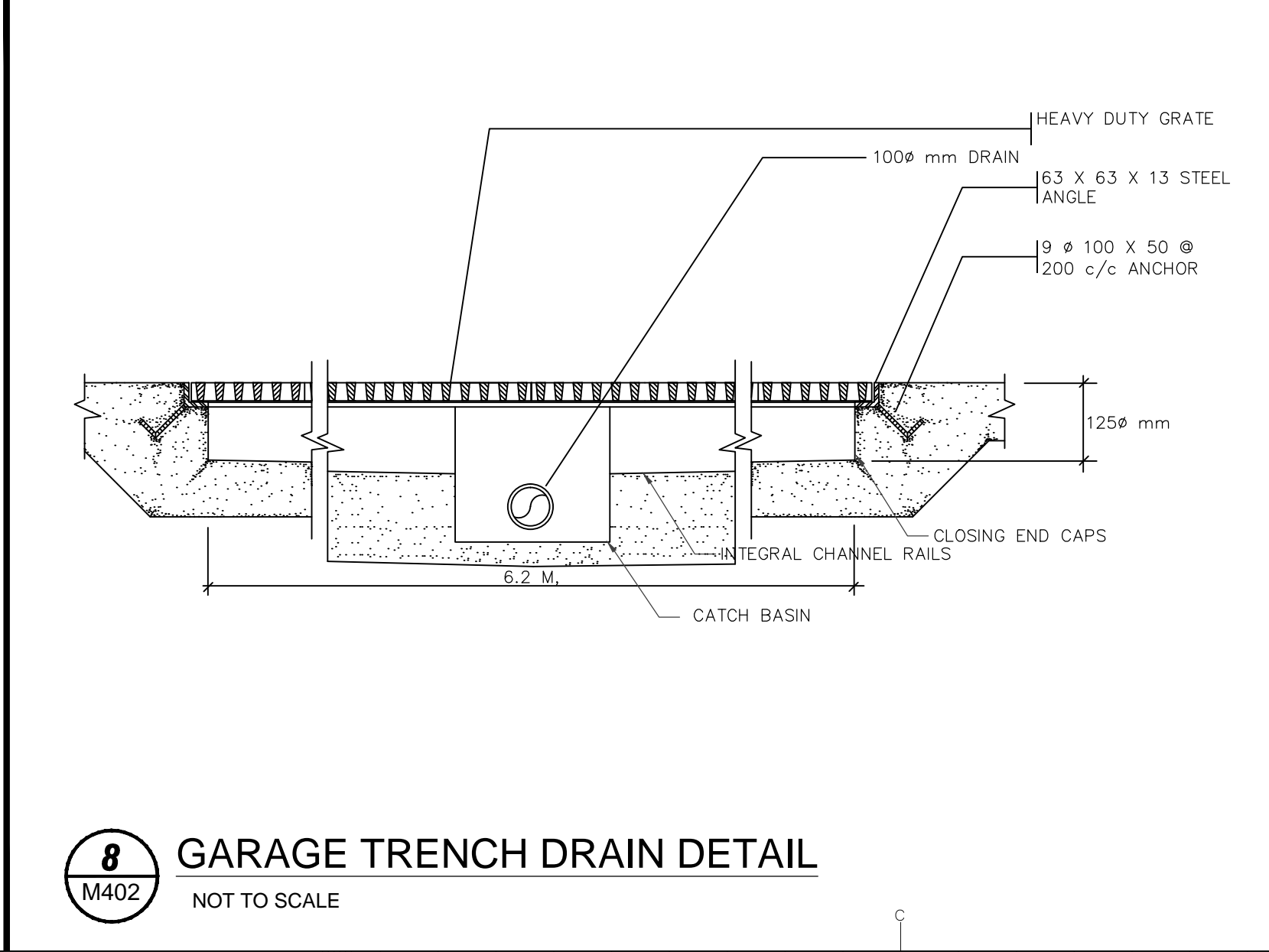
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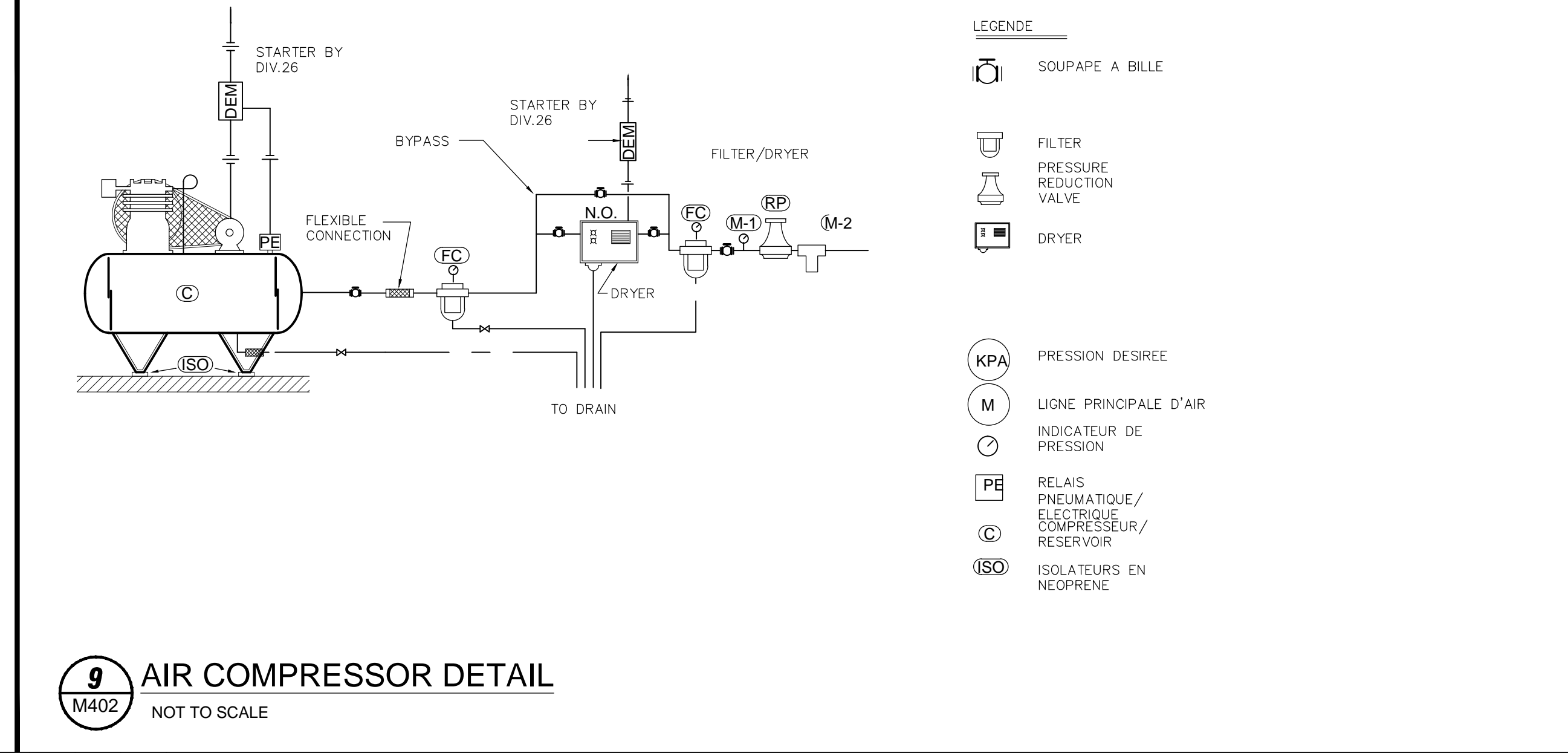
6 RETAINING PIT DETAIL
M402 NOT TO SCALE



7 OIL INTERCEPTOR DETAIL
M402 NOT TO SCALE



8 GARAGE TRENCH DRAIN DETAIL
M402 NOT TO SCALE



9 AIR COMPRESSOR DETAIL
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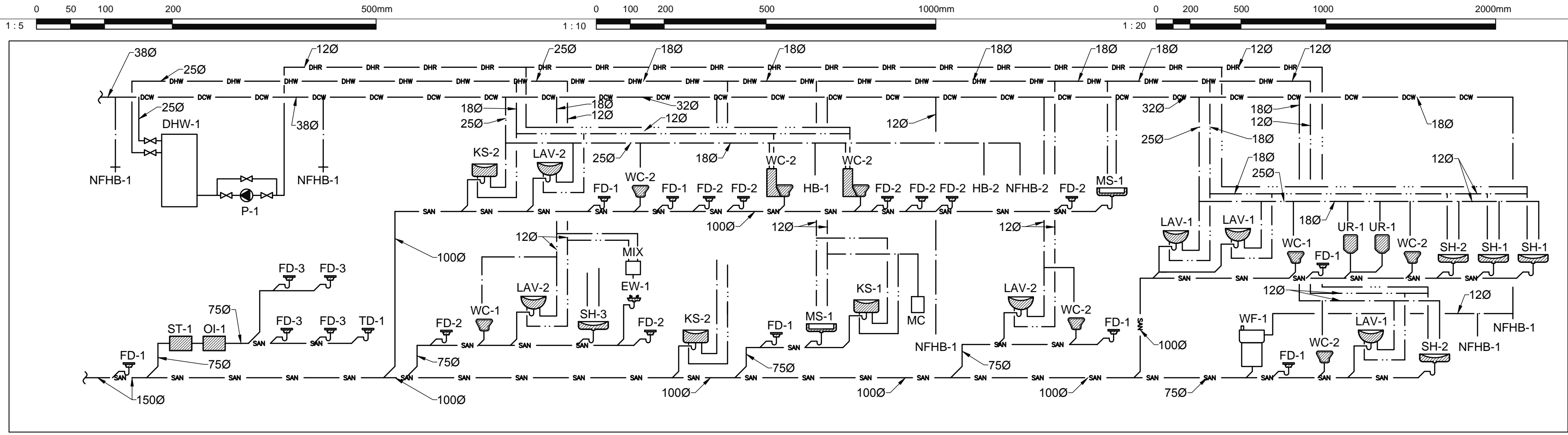
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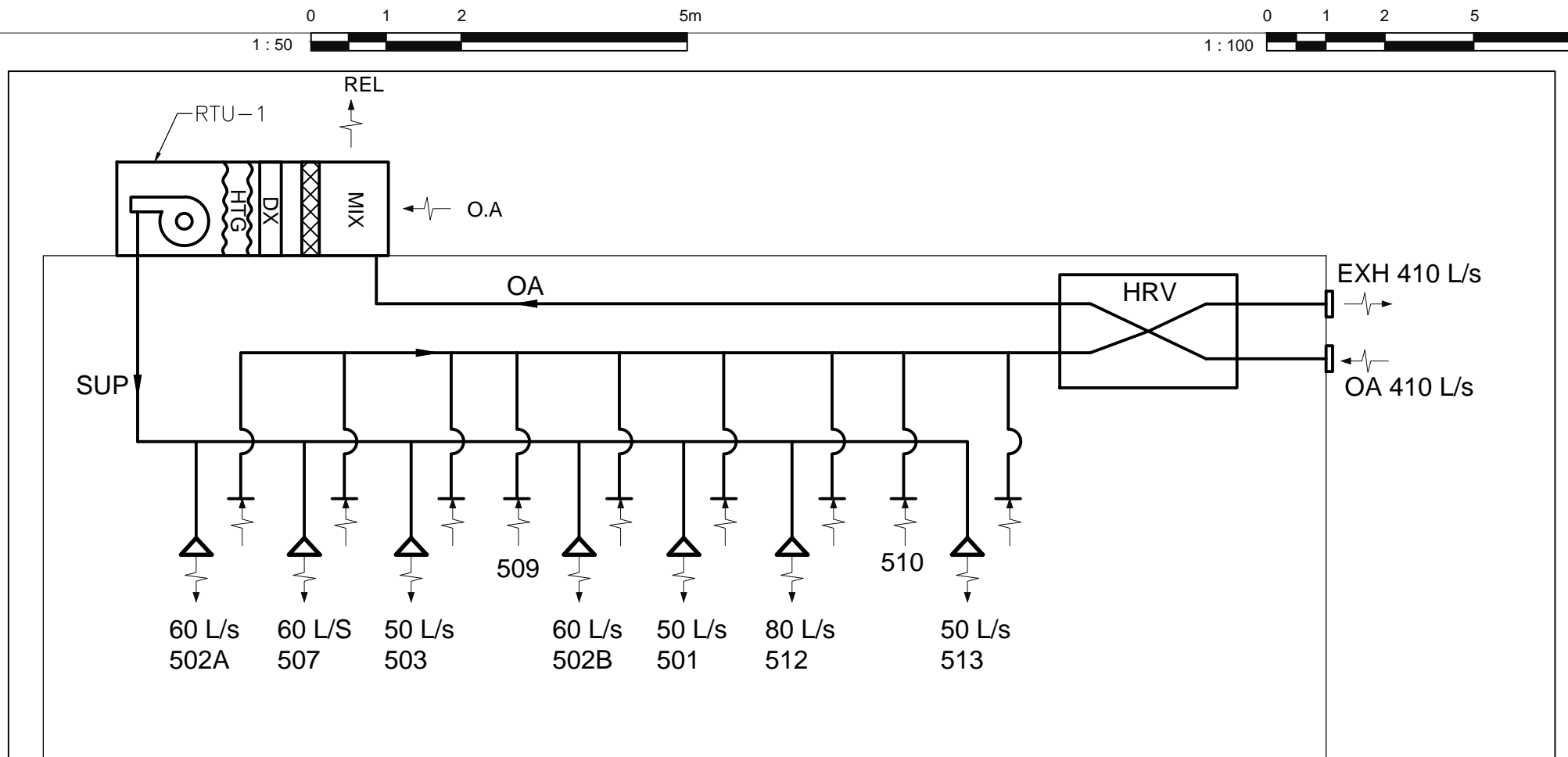
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DETAILS PAGE 3

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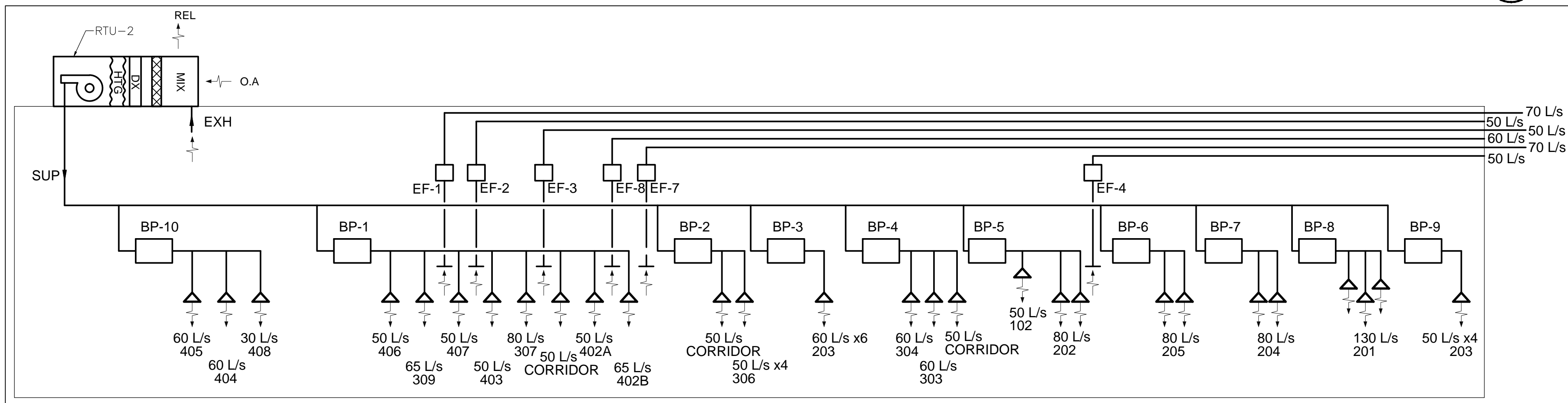
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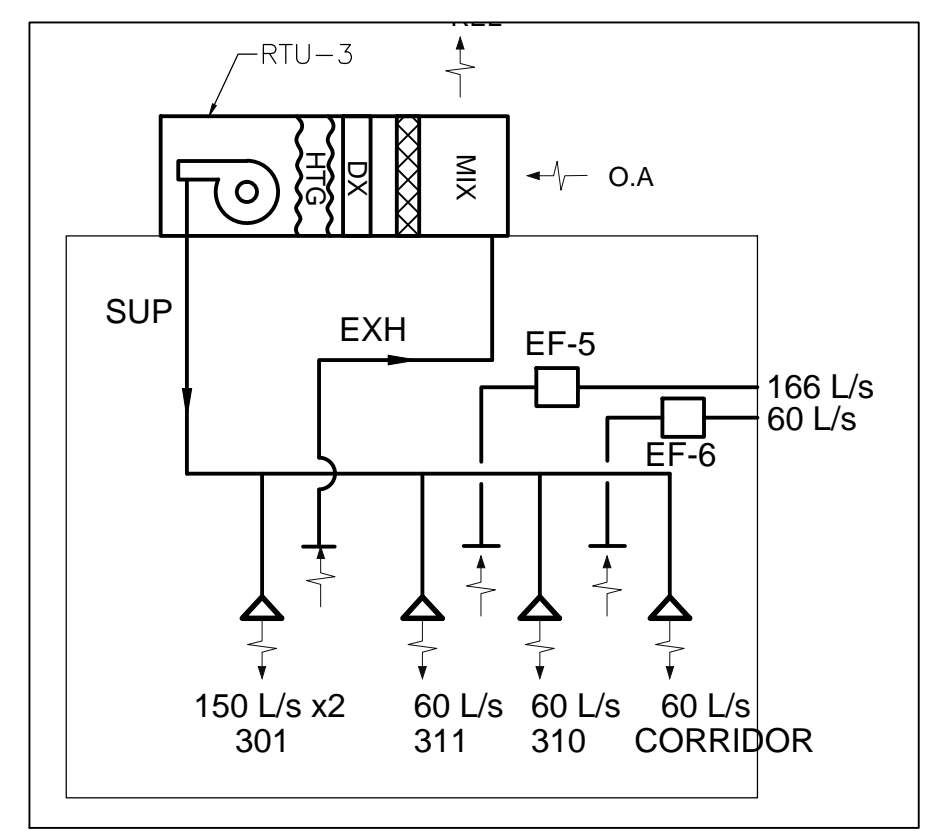
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M403 NOT TO SCALE



2 RTU-1 HVAC SCHEMATIC DETAIL
M403 NOT TO SCALE



3 RTU-2 HVAC SCHEMATIC DETAIL
M403 NOT TO SCALE



4 RTU-3 HVAC SCHEMATIC DETAIL
M403 NOT TO SCALE

TAG	ROOF TOP UNIT SCHEDULE											
	EVAPORATOR FAN			COOLING AT OA T 29 C		HEATING @ ΔT		ELECTRICAL			REFRIGERANT	NOTES
	FLOW SA	FLOW OA	Fan hp	EXT. STATIC PRESSURE	CAP. TOTAL KW	SEER	KW	VOLTAGE	MCA	MOP		
RTU-1	410	HRV-1	0.75	250 Pa	10	13	10	575-3-60	18	20	R-410A	1,2,3
RTU-2	1990	350	2	250 Pa	20/37	13	60	575-3-60	41	45	R-410A	1,2,3
RTU-3	480	120	0.75	250 Pa	10.4	13	15	575-3-60	24	25	R-410A	1,2,3

1. COMPLETE WITH ROOF CURB
2. COMPLETE WITH ECONOMIZER
3. REVIEW ARCHITECTURAL DRAWINGS AND LOCATION ON SLOPED ROOF PROVIDE CURB ADAPTOR TO MAINTAIN UNIT LEVEL INSTALLATION

NEW DUCTWORK	
UNLESS INDICATED OTHERWISE, ALL SIZES OF AFTER BYPASS BOXES FOR SUPPLY AIR, RETURN OR EXHAUST AIR MUST BE AS FOLLOWS.	
FLOW	SIZE
0 - 25 L/S	125 x 100 OD 125 DIA.
26 - 50 L/S	150 x 125 OD 150 DIA.
51 - 70 L/S	200 x 150
71 - 100 L/S	250 x 150
101 - 150 L/S	250 x 200 OD 250 DIA.
151 - 200 L/S	300 x 200

BYPASS BOXES SCHEDULE				
TAG	LOCATION	FLOW	SIZE	NOTE
BP-1	307-312-402A-402B-403-405-406-703	509	12	1
BP-2	306	472	10	1
BP-3	203	472	10	1
BP-4	303-304	203	8	1
BP-5	202	142	6	1
BP-6	205	142	6	1
BP-7	309	142	6	1
BP-8	201	203	8	1
BP-9	203	203	8	1
BP-10	204-404-407	203	8	1

1. COMPLETE WITH ACTUATOR AND HEATING/COOLING WITH AUTOMATIC CHANGEOVER AND AUX HEAT CONTROL PACKAGE

PLUMBING ACCESSORIES LIST					
TAG	D.C.W	D.H.W	SAN.	VENT	NOTES
LAV-1	13	13	32	31	BARRIER FREE LAVATORY
LAV-2	13	13	32	31	BARRIER FREE LAVATORY
WC-1	25	-	75	38	WATER CLOSET
WC-2	25	-	75	38	BARRIER FREE WATER CLOSET
WC-3	25	13	75	38	WATER CLOSET AND LAVATORY FOR PRISONERS
WC-4	25	13	75	38	WATER CLOSET AND LAVATORY FOR PRISONERS
UR-1	19	-	38	32	BARRIER FREE URINAL
SH-1	13	13	38	32	SHOWER
SH-2	13	13	38	32	BARRIER FREE SHOWER
SH-3	13	13	38	32	SHOWER FOR PRISONERS
KS-1	13	13	38	32	KITCHEN SINK
KS-2	13	13	38	32	KITCHEN SINK FOR PRISONERS
KS-3	13	13	38	32	WORKSHOP SINK
MC	13	-	-	32	COFFEE MACHINE (MACHINE BY CLIENT)
MS-1	19	19	100	38	JANITOR MOP SINK
FD-1	AMORCEUR	-	75	38	FLOOR DRAIN
FD-2	AMORCEUR	-	75	38	FLOOR DRAIN FOR PRISONERS
FD-3	AMORCEUR	-	75	38	FLOOR DRAIN FOR GARAGES
TD-1	AMORCEUR	-	75	38	TRENCH DRAIN
OI-1	-	-	100	50	OIL INTERCEPTOR
ST-1	-	-	100	50	SAND INTERCEPTOR
HB-1	13	-	-	-	HOSE BIB
HB-2	13	-	-	-	SECURE CABINET HOSE BIB WITH HOSE
NFHB-1	19	-	-	-	NON-FREEZE HOSE BIB
NFHB-2	19	-	-	-	SECURE CABINET NON-FREEZE HOSE BIB

EXHAUST FAN SCHEDULE										
TAG	LOCATION	TYPE	FLOW L/s	EXT. STATIC PRESSURE Pa	MOTOR	ELECTRICAL	NOTES			
EF-1	309	DIRECT DRIVE CENTRIFUGAL CABINET FAN	70	62	77	115V/10/60HZ	C/W WALL CAP. BDD, FAN MOUNTED SOLID STATE SPEED CONTROL, DIV. 26 TO PROVIDE WALL MTD OCCUPANCY SENSOR WITH TIME DELAY			
EF-2	312	DIRECT DRIVE CENTRIFUGAL CABINET FAN	50	62	108	115V/10/60HZ	c/w wall cap. BDD, fan mounted solid state speed control, interlock with light switch			
EF-3	604	DIRECT DRIVE CENTRIFUGAL CABINET FAN	50	62	47	115V/10/60HZ	C/W WALL CAP. BDD, FAN MOUNTED SOLID STATE SPEED CONTROL, DIV. 26 TO PROVIDE WALL MTD OCCUPANCY SENSOR WITH TIME DELAY			
EF-4	103	DIRECT DRIVE CENTRIFUGAL CABINET FAN	50	62	47	115V/10/60HZ	C/W WALL CAP. BDD, FAN MOUNTED SOLID STATE SPEED CONTROL, DIV. 26 TO PROVIDE WALL MTD OCCUPANCY SENSOR WITH TIME DELAY			
EF-5	310	DIRECT DRIVE CENTRIFUGAL CABINET FAN	60	62	108	115V/10/60HZ	C/W WALL CAP. BDD, FAN MOUNTED SOLID STATE SPEED CONTROL, DIV. 26 TO PROVIDE WALL MTD OCCUPANCY SENSOR WITH TIME DELAY			
EF-6	311	DIRECT DRIVE CENTRIFUGAL CABINET FAN	166	62	234	115V/10/60HZ	C/W WALL CAP. BDD, FAN MOUNTED SOLID STATE SPEED CONTROL, DIV. 26 TO PROVIDE WALL MTD OCCUPANCY SENSOR WITH TIME DELAY			
EF-7	402B	DIRECT DRIVE CENTRIFUGAL CABINET FAN	70	62	108	115V/10/60HZ	C/W WALL CAP. BDD, FAN MOUNTED SOLID STATE SPEED CONTROL, DIV. 26 TO PROVIDE WALL MTD OCCUPANCY SENSOR WITH TIME DELAY			
EF-8	402A	DIRECT DRIVE CENTRIFUGAL CABINET FAN	60	62	108	115V/10/60HZ	C/W WALL CAP. BDD, FAN MOUNTED SOLID STATE SPEED CONTROL, DIV. 26 TO PROVIDE WALL MTD PROGRAMMABLE 24/7 TIMER.			
EF-9	602	DIRECT DRIVE CENTRIFUGAL wall exhauster	520	62	1/6 hp	115V/10/60HZ	C/W WEATHER PROOF DISCONNECT SWITCH, WALL FLANGE, SLEEVE WITH LOW LEAK MOTORIZED DAMPER WITH LINE VOLTAGE ACTUATOR AND STEEL EGG CRATE GRILLE MOUNTED ON INTERIOR SIDE OF THE WALL, DIV. 26 TO PROVIDE INTERLOCK BETWEEN FAN, INTAKE MD, EXHAUST MD AND CO/NO2 MONITOR			
EF-10	601	Belt Driven DRIVE CENTRIFUGAL wall exhauster	2420	62	3/4 hp	115V/10/60HZ	C/W WEATHER PROOF DISCONNECT SWITCH, WALL FLANGE, SLEEVE WITH LOW LEAK MOTORIZED DAMPER WITH LINE VOLTAGE ACTUATOR AND STEEL EGG CRATE GRILLE MOUNTED ON INTERIOR SIDE OF THE WALL, DIV. 26 TO PROVIDE INTERLOCK BETWEEN FAN, INTAKE MD, EXHAUST MD AND CO/NO2 MONITOR			
EF-11	502	DIRECT DRIVE CENTRIFUGAL ROOF exhauster	270	62	1/7 hp	115V/10/60HZ	C/W WEATHER PROOF DISCONNECT SWITCH, ROOF CURB, SLEEVE WITH LOW LEAK MOTORIZED DAMPER WITH LINE VOLTAGE ACTUATOR, PROVIDE DUCT EXTENSION TO THE SPACE AND INSTALL DUCT SIZE STEEL EGG CRATE GRILLE MOUNTED ON INTERIOR SIDE OF THE CEILING, DIV. 26 TO PROVIDE INTERLOCK BETWEEN FAN, INTAKE MD, EXHAUST MD AND CO/NO2 MONITOR			
EF-12	302	DIRECT DRIVE CENTRIFUGAL wall exhauster	270	62	1/7 hp	115V/10/60HZ	C/W WEATHER PROOF DISCONNECT SWITCH, WALL FLANGE, SLEEVE WITH LOW LEAK MOTORIZED DAMPER WITH LINE VOLTAGE ACTUATOR AND STEEL EGG CRATE GRILLE MOUNTED ON INTERIOR SIDE OF THE WALL, DIV. 26 TO PROVIDE INTERLOCK BETWEEN FAN, INTAKE MD, EXHAUST MD AND CO/NO2 MONITOR			

AIR INTAKE SCHEDULE							
TAG	LOCATION	TYPE	FLOW L/s	EXT. S. PRESSURE Pa	THROAT SIZE	HOOD SIZE	NOTES
AI-1	601	WALL MOUNTED ARCHITECTURAL 100 mm DEEP RAIN PROOF LOUVERE	2420	30	900 x 1200	900 x 1200	C/W WALL SLEEVE, LOW LEAK MOTORIZED DAMPER AND ACTUATOR, INTERLOCK WITH CORRESPONDING EXHAUST FAN, PROVIDE INSECT AND BIRD SCREEN
AI-2	602	ROOF MOUNTED FRESH AIR INTAKE HOOD	520	30	300 x 300	625 x 650x175 high	C/W ROOF CURB, LOW LEAK MOTORIZED DAMPER AND ACTUATOR, INTERLOCK WITH CORRESPONDING EXHAUST FAN PROVIDE INSECT AND BIRD SCREEN
AI-3	502	DIRECT DRIVE CENTRIFUGAL CABINET FAN	270	30	300 x 300	625 x 650x175 high	C/W ROOF CURB, LOW LEAK MOTORIZED DAMPER AND ACTUATOR, INTERLOCK WITH CORRESPONDING EXHAUST FAN PROVIDE INSECT AND BIRD SCREEN
AI-4	302	DIRECT DRIVE CENTRIFUGAL CABINET FAN	270	30	300 x 300	625 x 650x175 high	C/W ROOF CURB, LOW LEAK MOTORIZED DAMPER AND ACTUATOR, INTERLOCK WITH CORRESPONDING EXHAUST FAN PROVIDE INSECT AND BIRD SCREEN

DIFFUSER SCHEDULE				
TAG	DESCRIPTION	SIZE	FLOW	NOTES
A	LINEAR DIFFUSER	AS SHOWN ON DRAWINGS	AS SHOWN ON DRAWINGS	SEE SPEC
B	SQUARE CONE	AS SHOWN ON DRAWINGS	AS SHOWN ON DRAWINGS	SEE SPEC
C	SECURE SUPPLY GRILLE	AS SHOWN ON DRAWINGS	AS SHOWN ON DRAWINGS	SEE SPEC
D	SECURE RETURN GRILLE	AS SHOWN ON DRAWINGS	AS SHOWN ON DRAWINGS	SEE SPEC
E	SECURE SUPPLY GRILLE	AS SHOWN ON DRAWINGS	AS SHOWN ON DRAWINGS	SEE SPEC
F	EGG CRATE	AS SHOWN ON DRAWINGS	AS SHOWN ON DRAWINGS	SEE SPEC

HRV SCHEDULE											
TAG	LOCATION	EXHAUST AIR				SUPPLY AIR				ELECTRICAL	
		FLOW L/S	EXT. S. PRESSURE	RPM	MCA	FLOW L/S	EXT. S. PRESSURE	RPM	MCA		
HRV-1	DETENTION CENTER	403	94 Pa	1550		403	94 Pa	1550	3	1/3 HP	208 / 3 ph

EVAPORATOR SCHEDULE							CONDENSER SCHEDULE						
TAG	LOCATION	FLOW L/S	MAX COOLING CAPACITY (KW)	SEER	ELECTRICAL L	MCA	REFRIGERANT	NOTES	TAG	MCA	ELEC. SERVICE	SERVICE	NOTES
AC-1 & AC-2	408	161-174-200	7	15.3	208/60/1	1	R-410A	3.4	CU-1.2	12.5	208/60/1	AC-1	1.2

1. VARIABLE COMPRESSOR SPEED INVERTER TECHNOLOGY COMPLETE WITH ULTRA LOW CABINET COOLING KIT (OUTDOOR INTAKE AIR TEMP = -40°C), 115V CONDENSATE PUMP (15W) COMPLETE WITH ELECTRONIC WATER LEVEL SENSOR INSTALLED WITHIN AC.
2. UNIT TO BE INSTALLED ON ROOF AS PER MANUFACTURERS INSTRUCTION TO ACHIEVE PROPER OPERATION.
3. AC TO COME WITH MINI CONDENSATE PUMP (0.05 L/S @ 77.7 kPa) LOCATED WITHIN HOUSING. CONDENSATE TO BE PUMPED TO NEAREST FLOOR DRAIN

RECIRCULATION PUMP SCHEDULE									
TAG	DESCRIPTION	FLOW L/S	FLUID TEMP.	TR/MIN	PRESSURE Pa	FLUID	MOTOR (W)	ELECTRICAL	TYPE
P-1	HOT WATER RECIRCULATION	1	82	1800	6.1	HOT WATER	186	120/1/60	IN LINE

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dessin drawing
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