

NOTES:



KEY PLAN:


CLIENT:
NEWMARKET

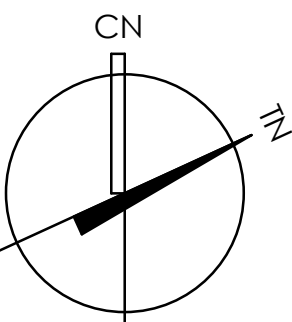
PROJECT:
22275

MULOCK ESTATE ADAPTIVE RE-USE

16780 Yonge Street,
Newmarket, Ontario.

ORIGINAL PAGE SIZE: ARCH E1 - 30" x 42"

KEY TO DETAIL LOCATION:
 A - DETAIL NO.
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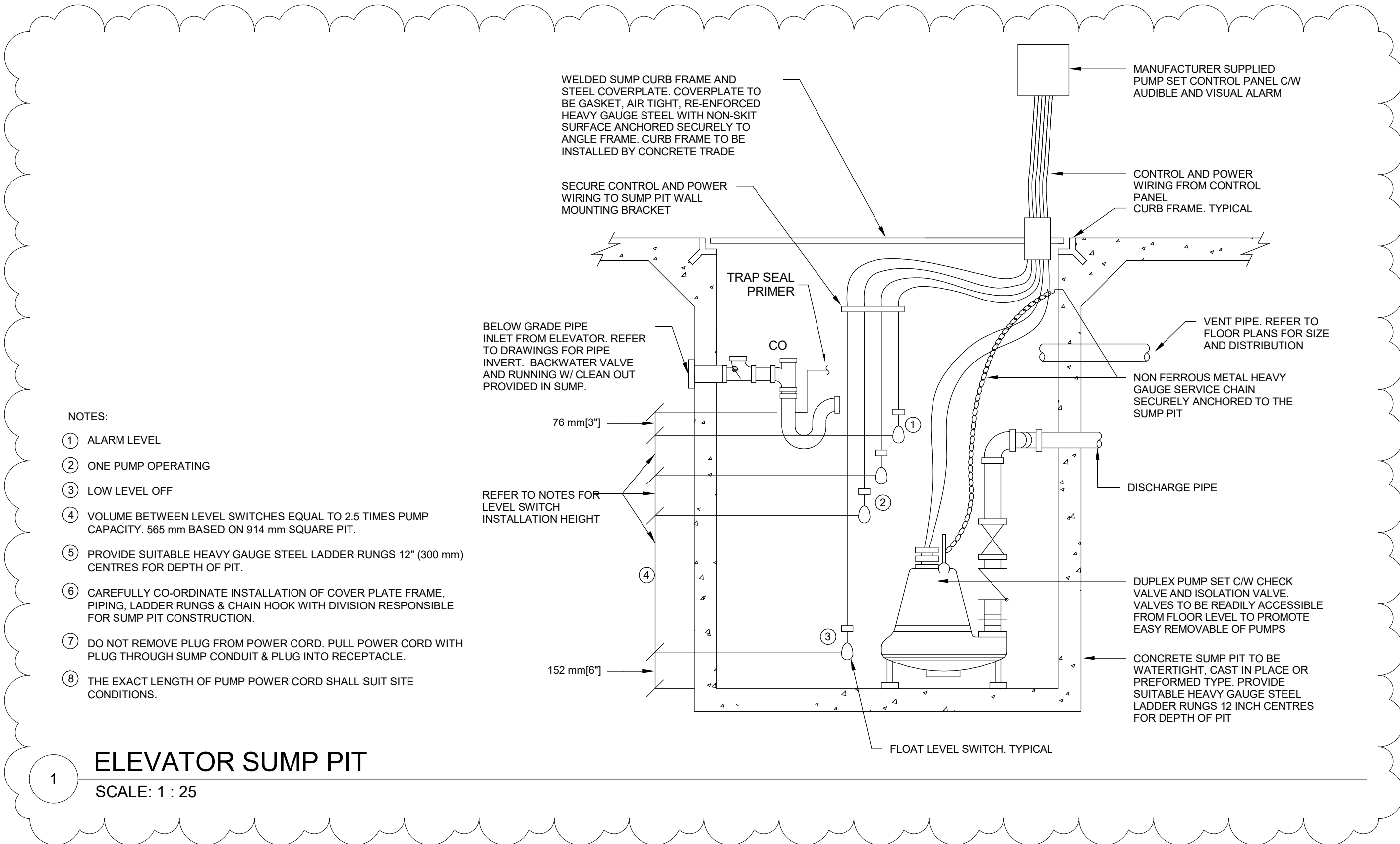


PLUMBING - BASEMENT-NEW WORK **SCALE** As indicated

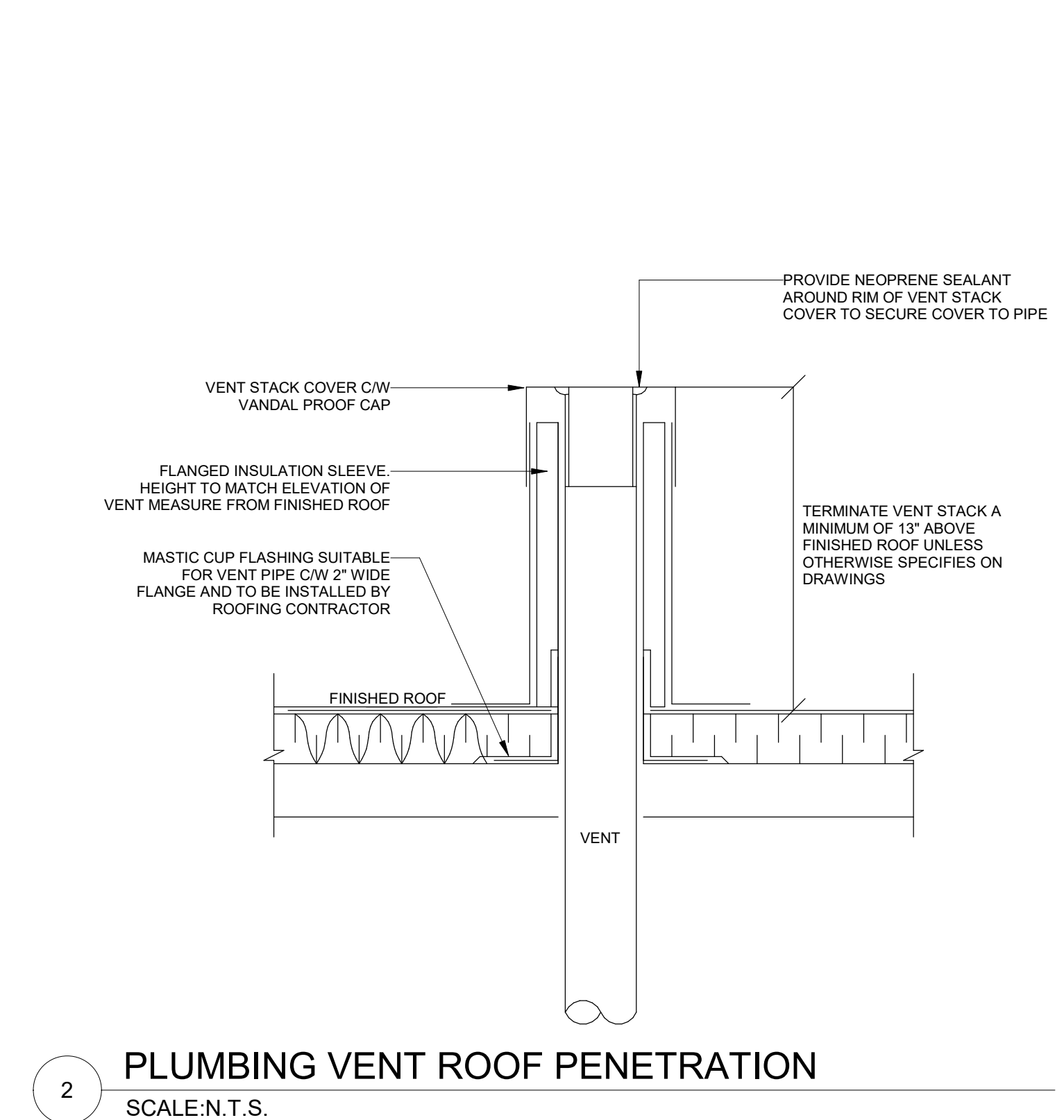
M-200

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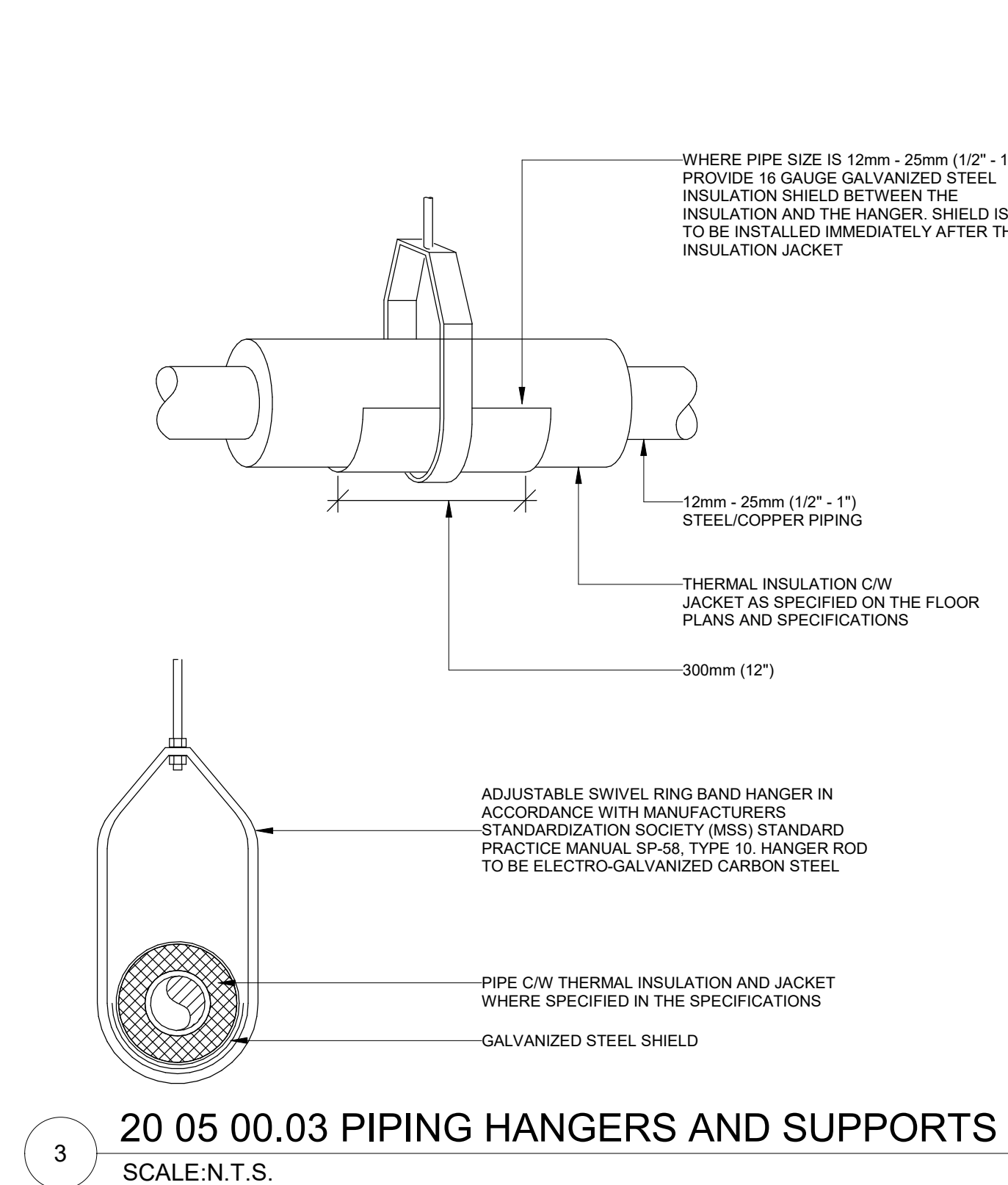
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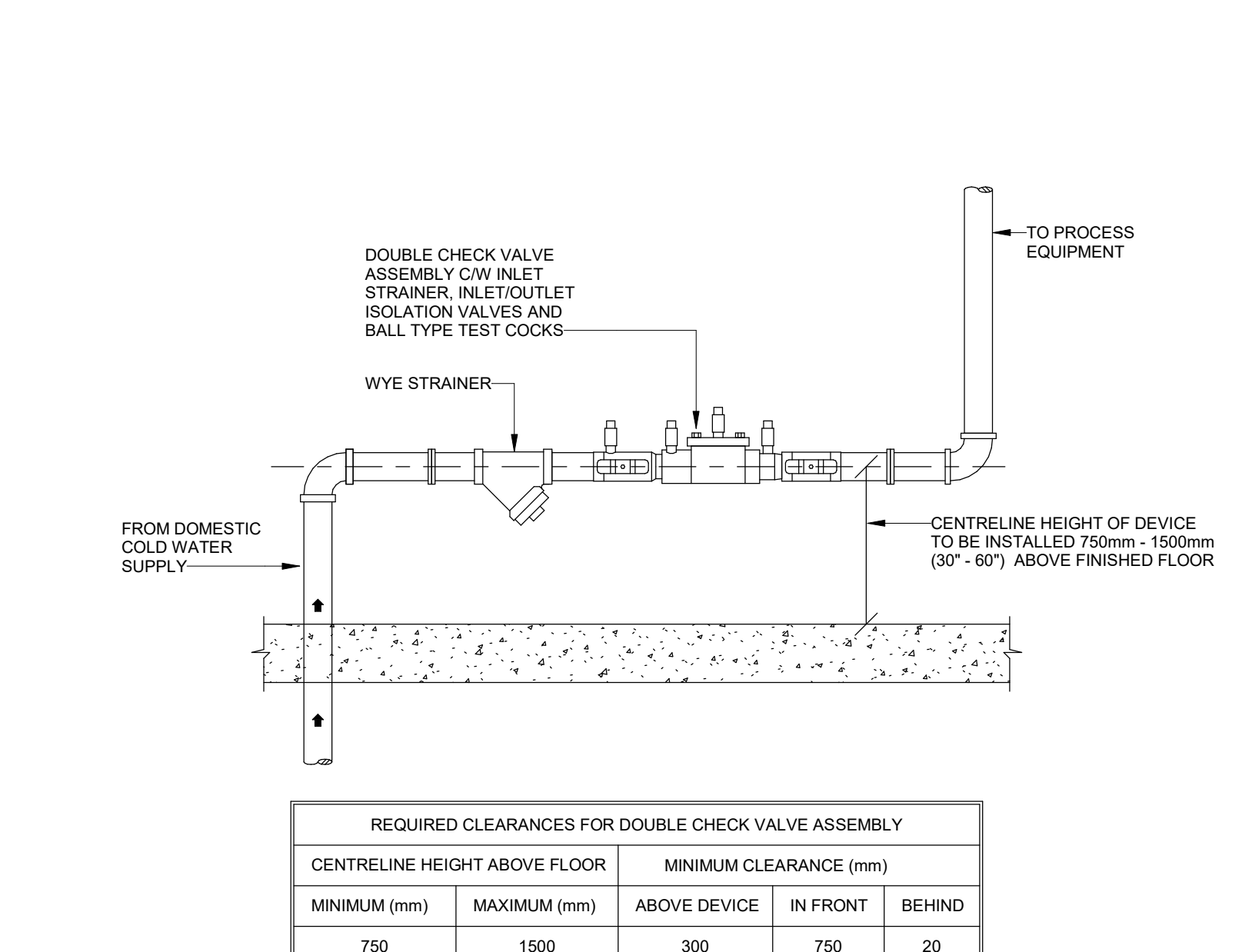
1 ELEVATOR SUMP PIT
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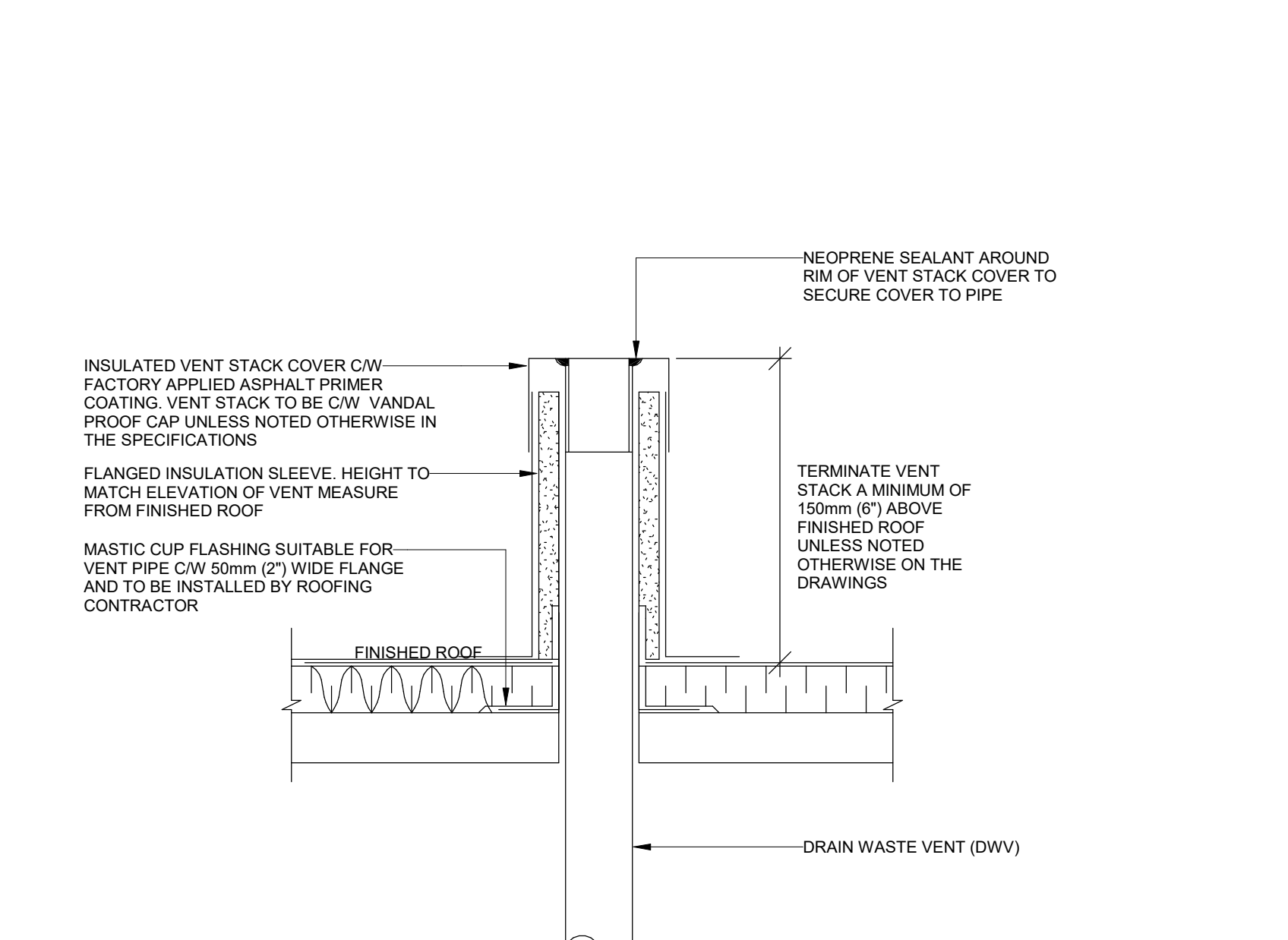
2 PLUMBING VENT ROOF PENETRATION
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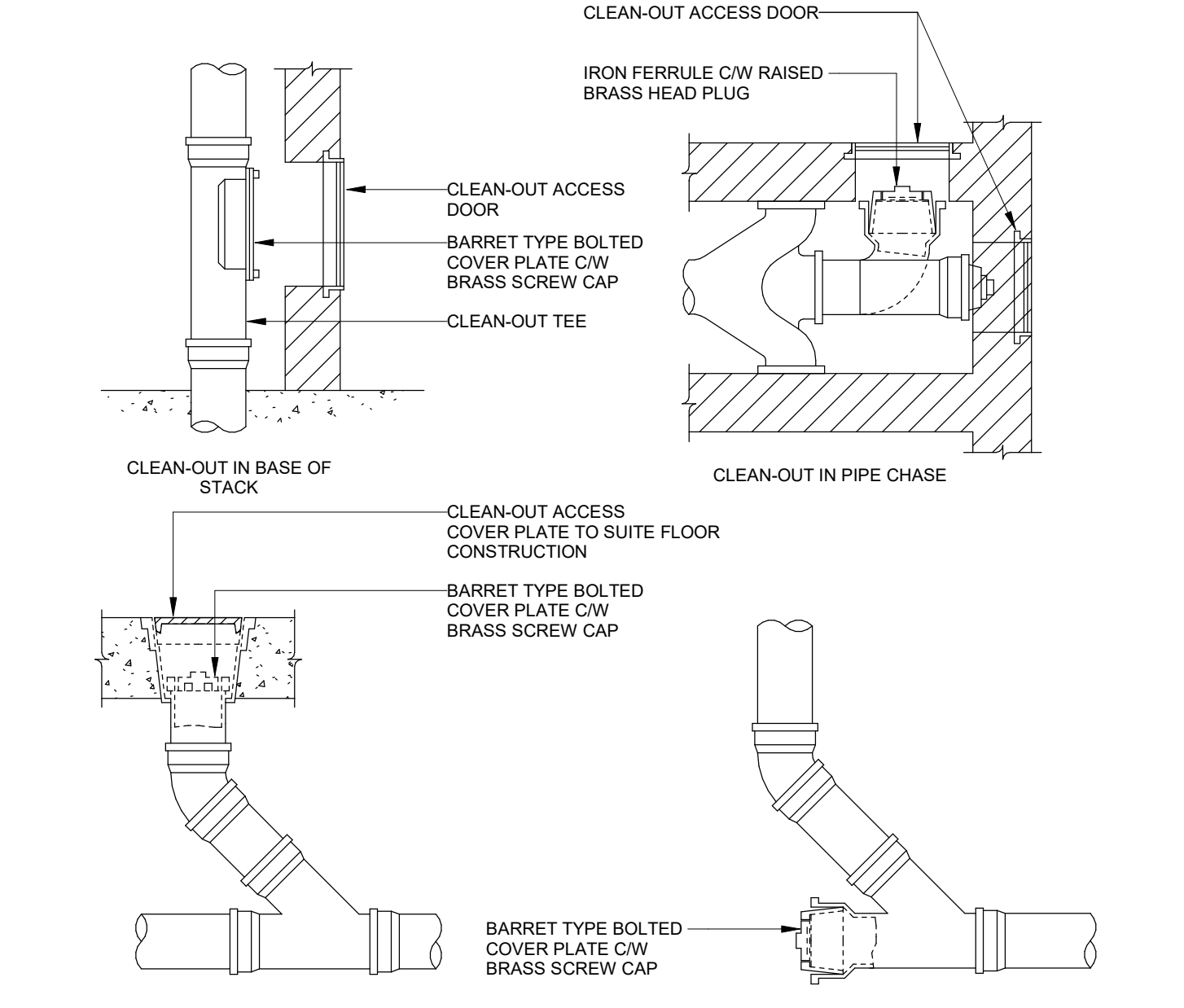
3 20 05 00.03 PIPING HANGERS AND SUPPORTS
SCALE: N.T.S.



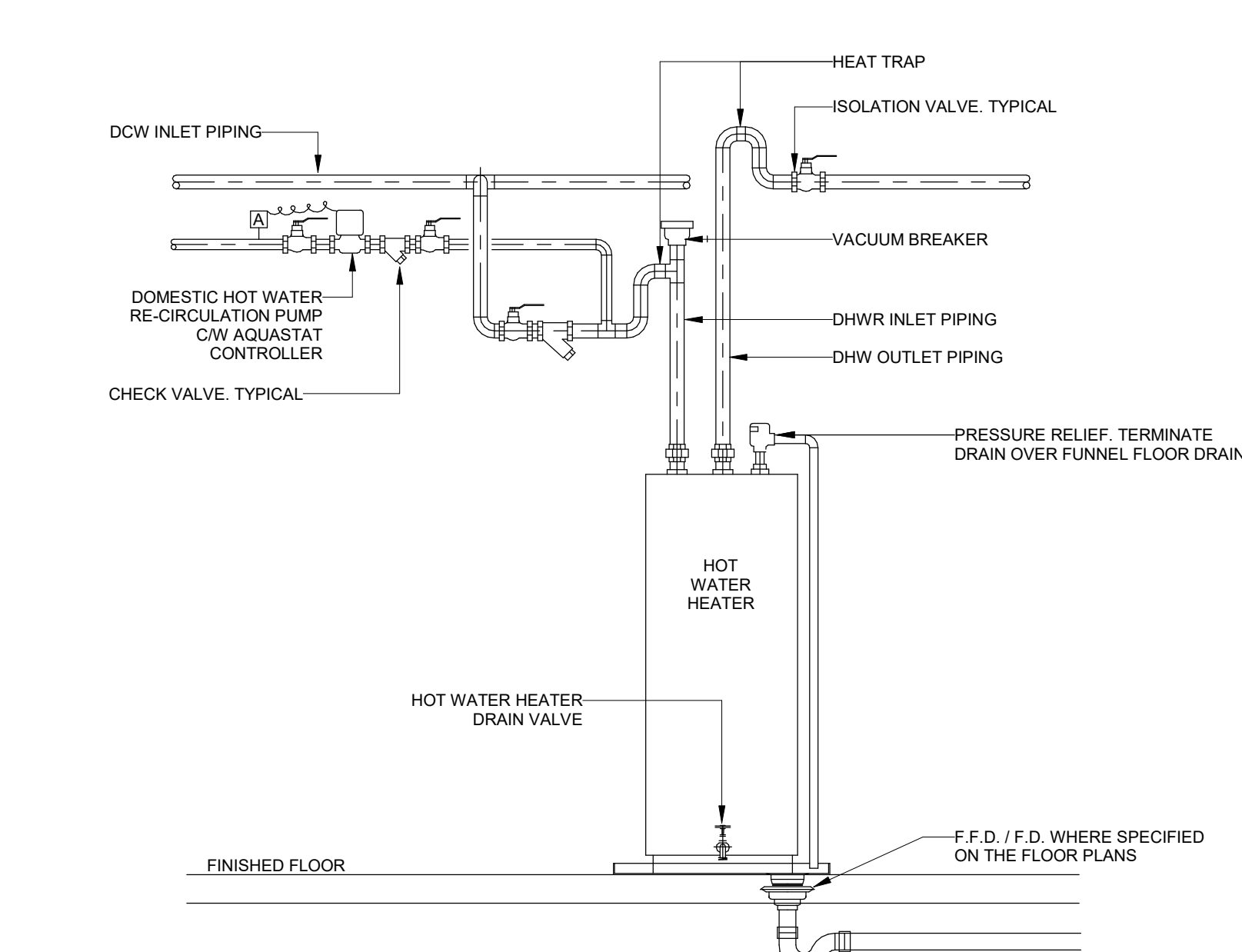
4 22 11 00.02 DOUBLE CHECK VALVE ASSEMBLY
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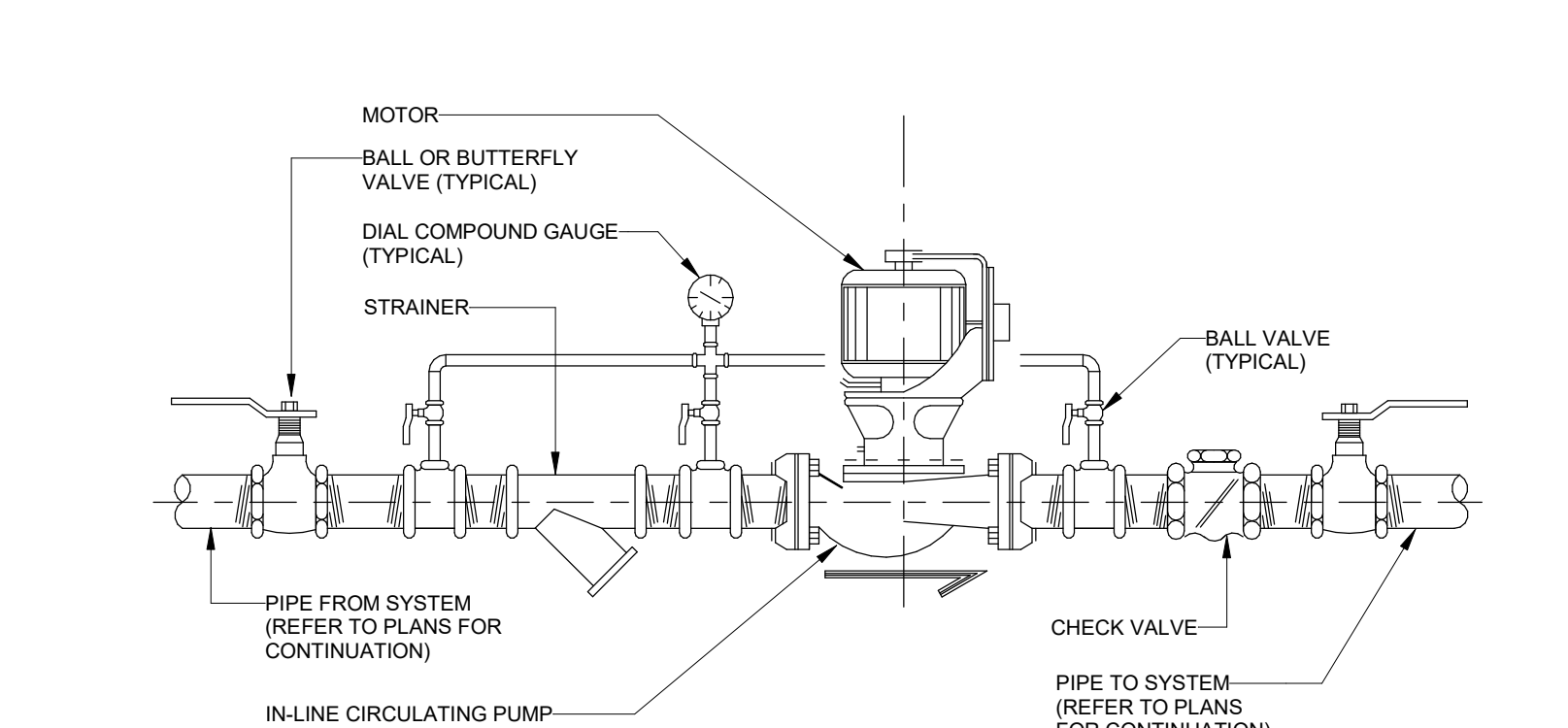
5 22 13 00.01 DWV ROOF PENETRATION & VENT CAP COVER
SCALE: 1 : 1



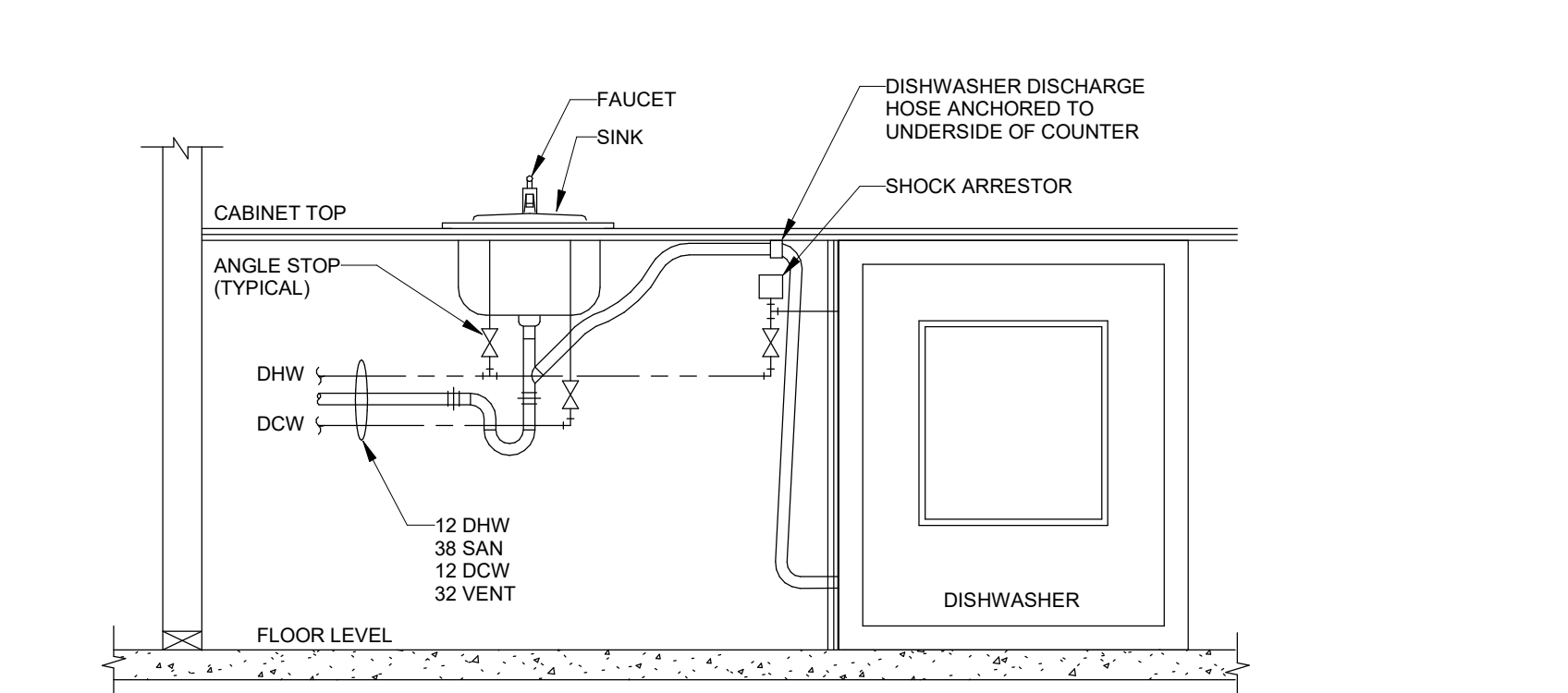
6 22 13 00.02 SANITARY & STORM WATER CLEANOUTS
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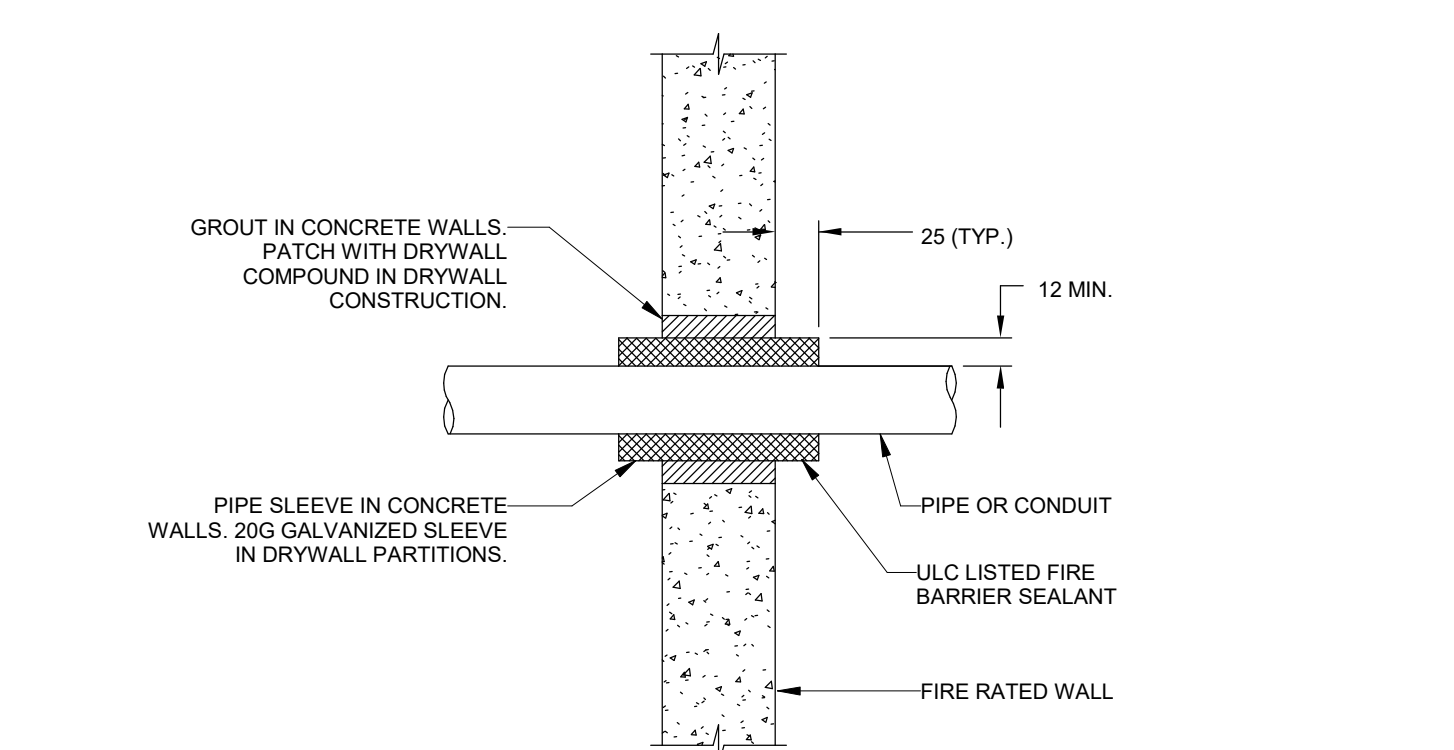
7 ELECTRIC HOT WATER HEATER
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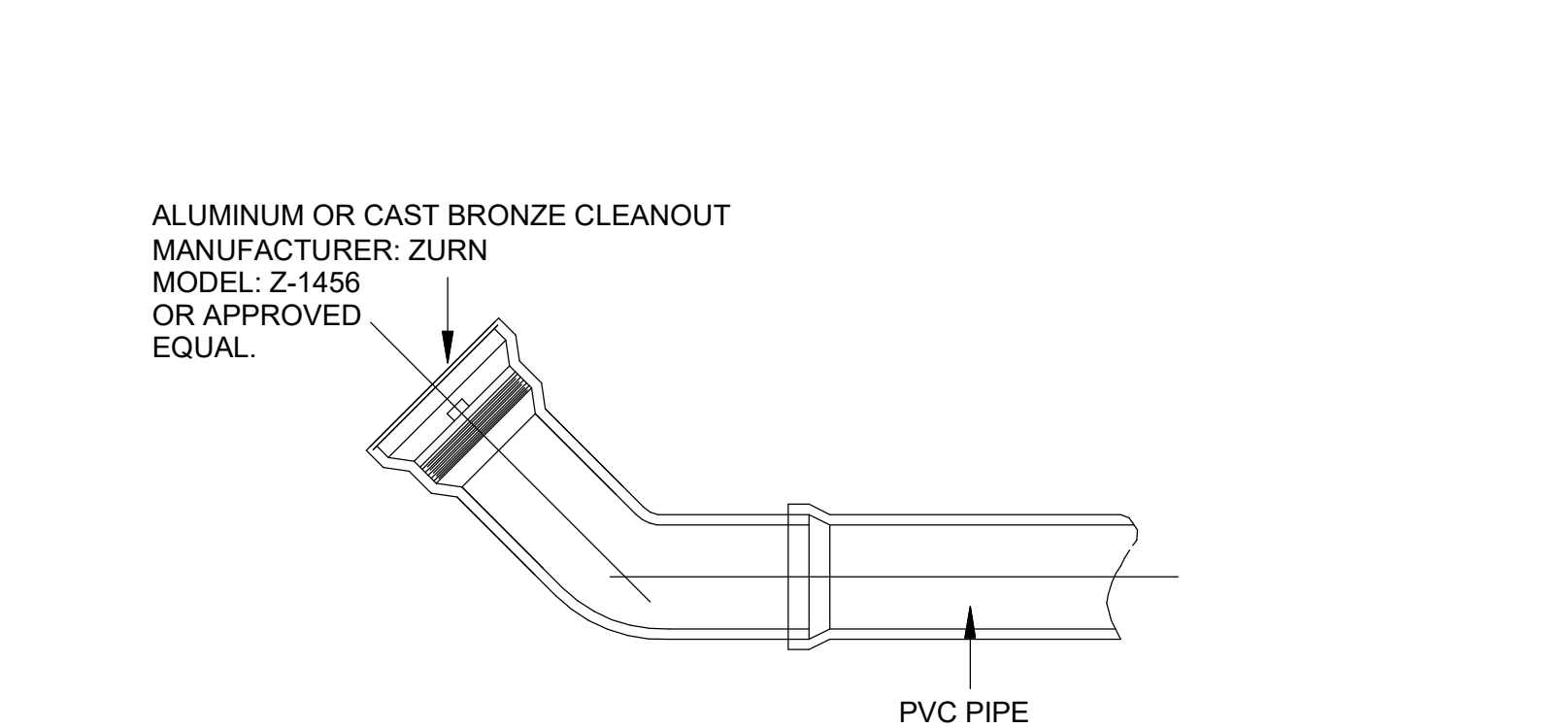
8 23 21 22.03 INLINE CIRCULATOR PUMP
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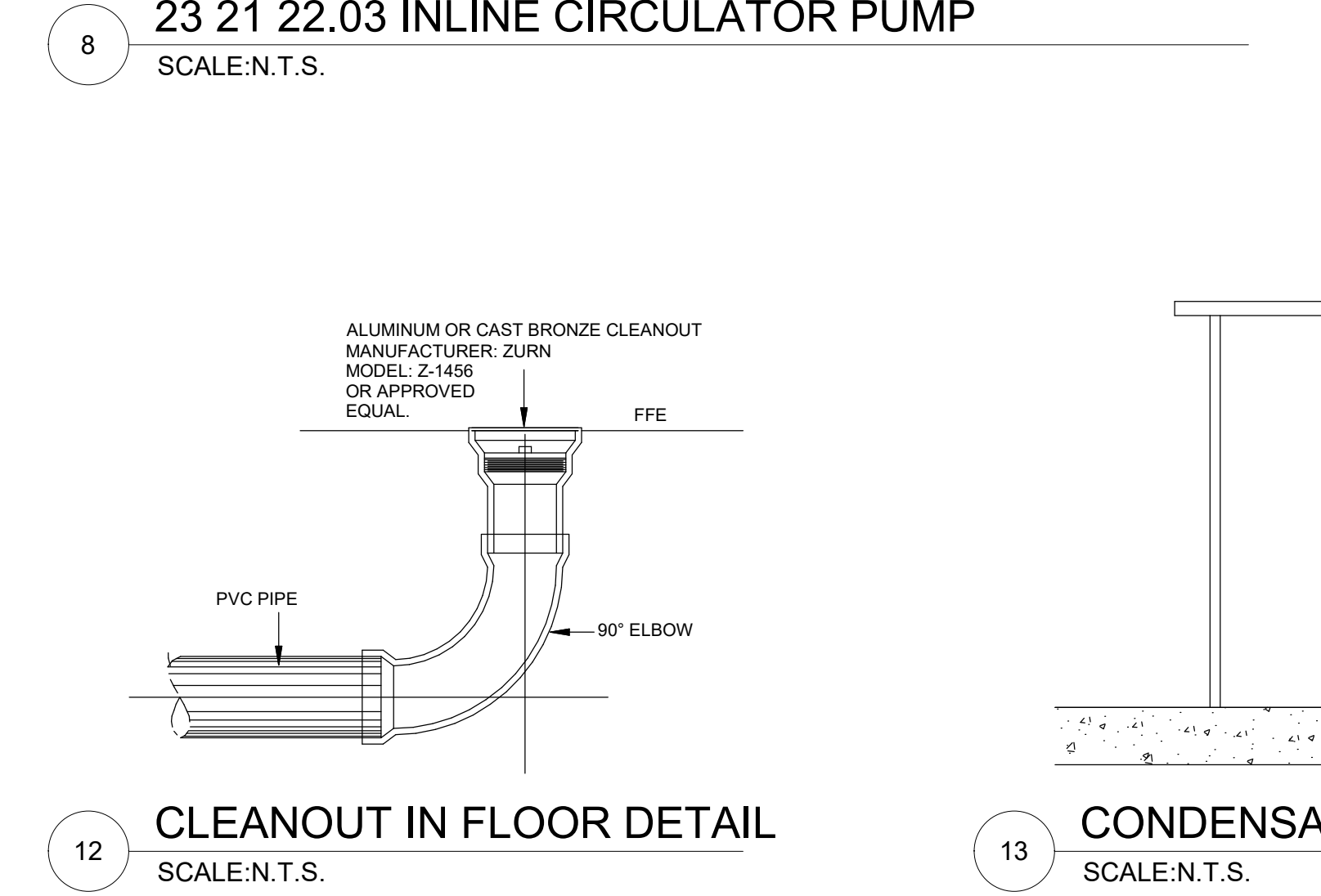
9 DISHWASHER PLUMBING
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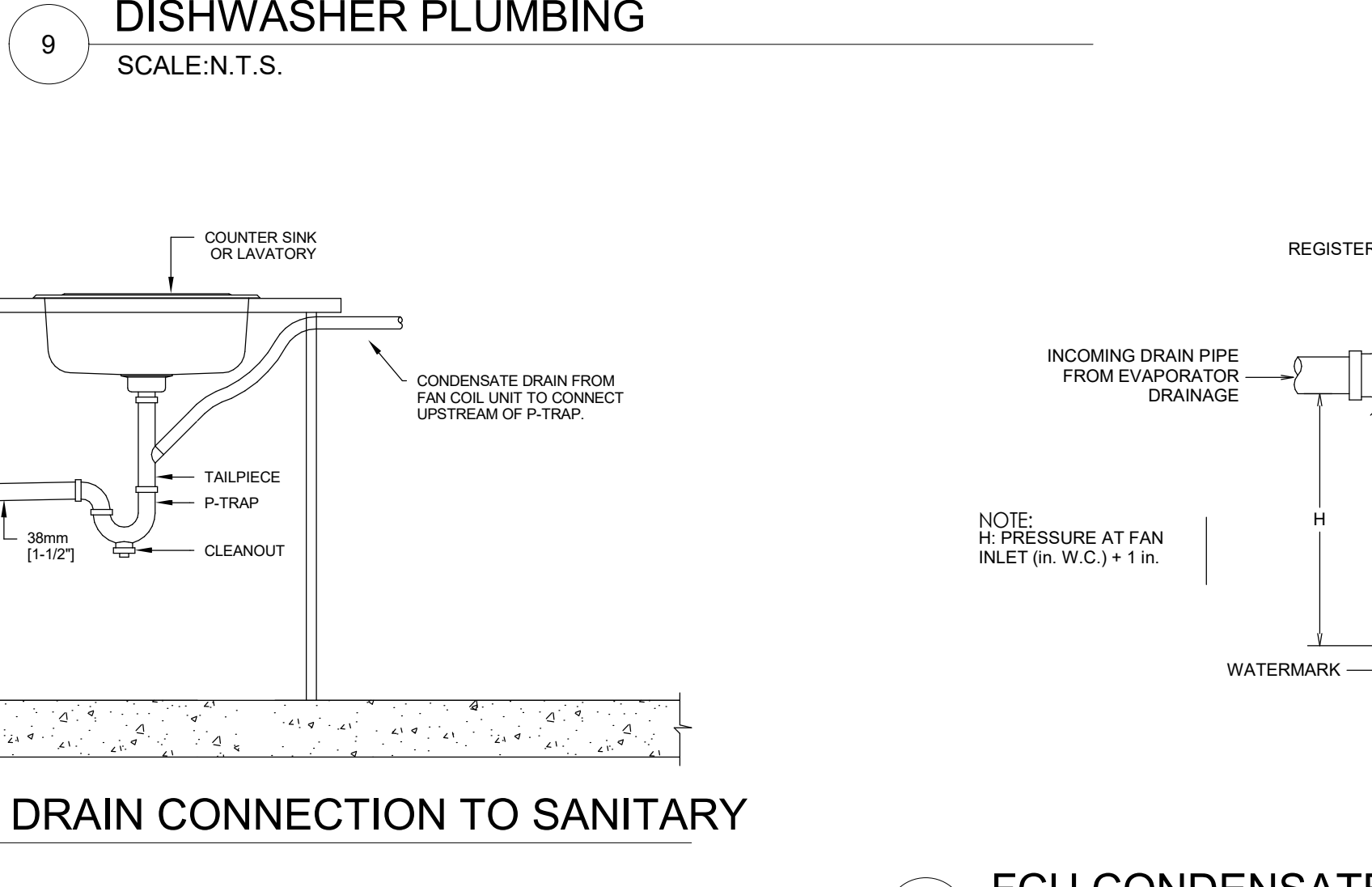
10 PIPE PENETRATION THROUGH FIRE RATED WALL
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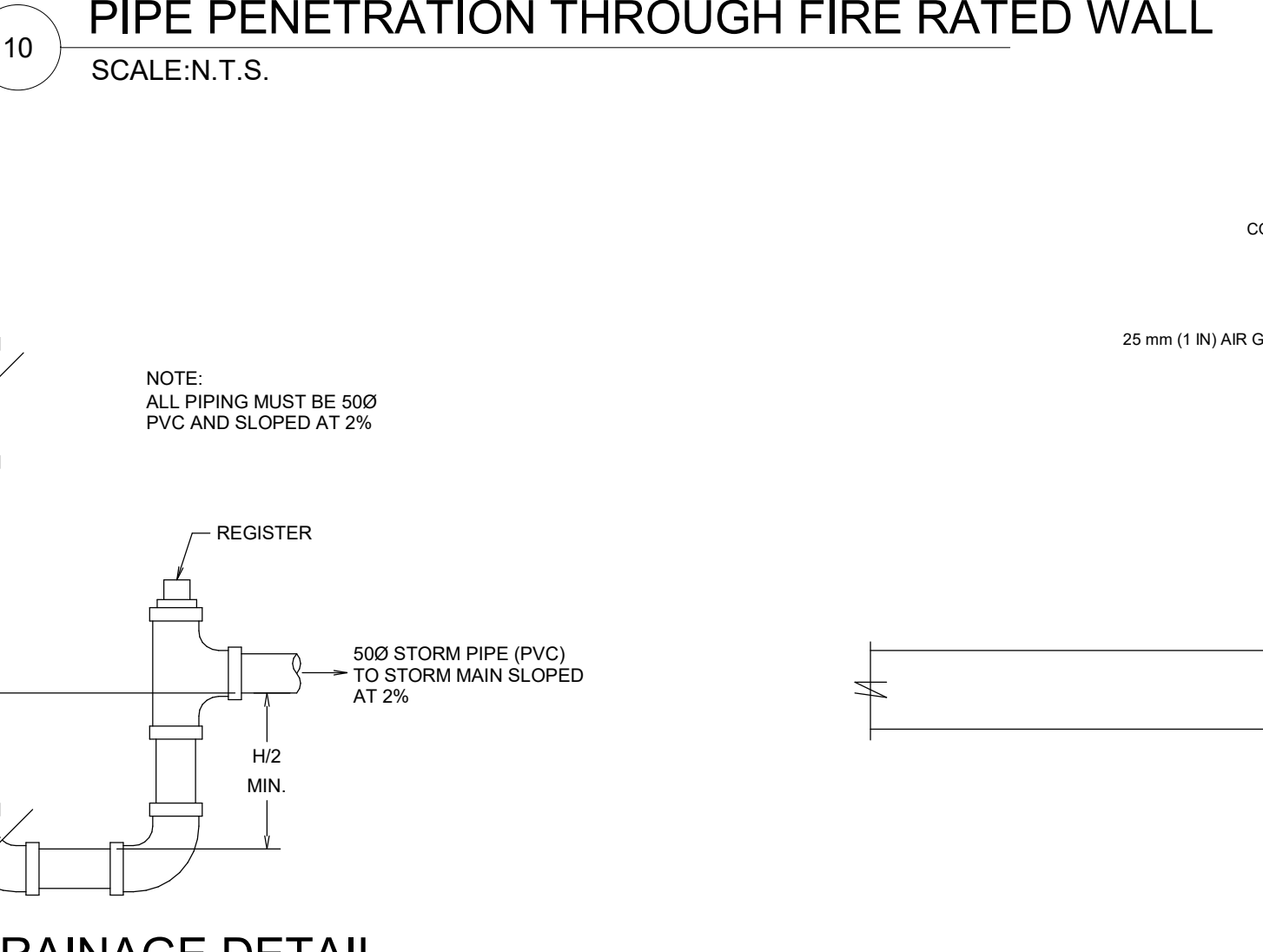
11 CLEANOUT IN CEILING DETAIL
SCALE: N.T.S.



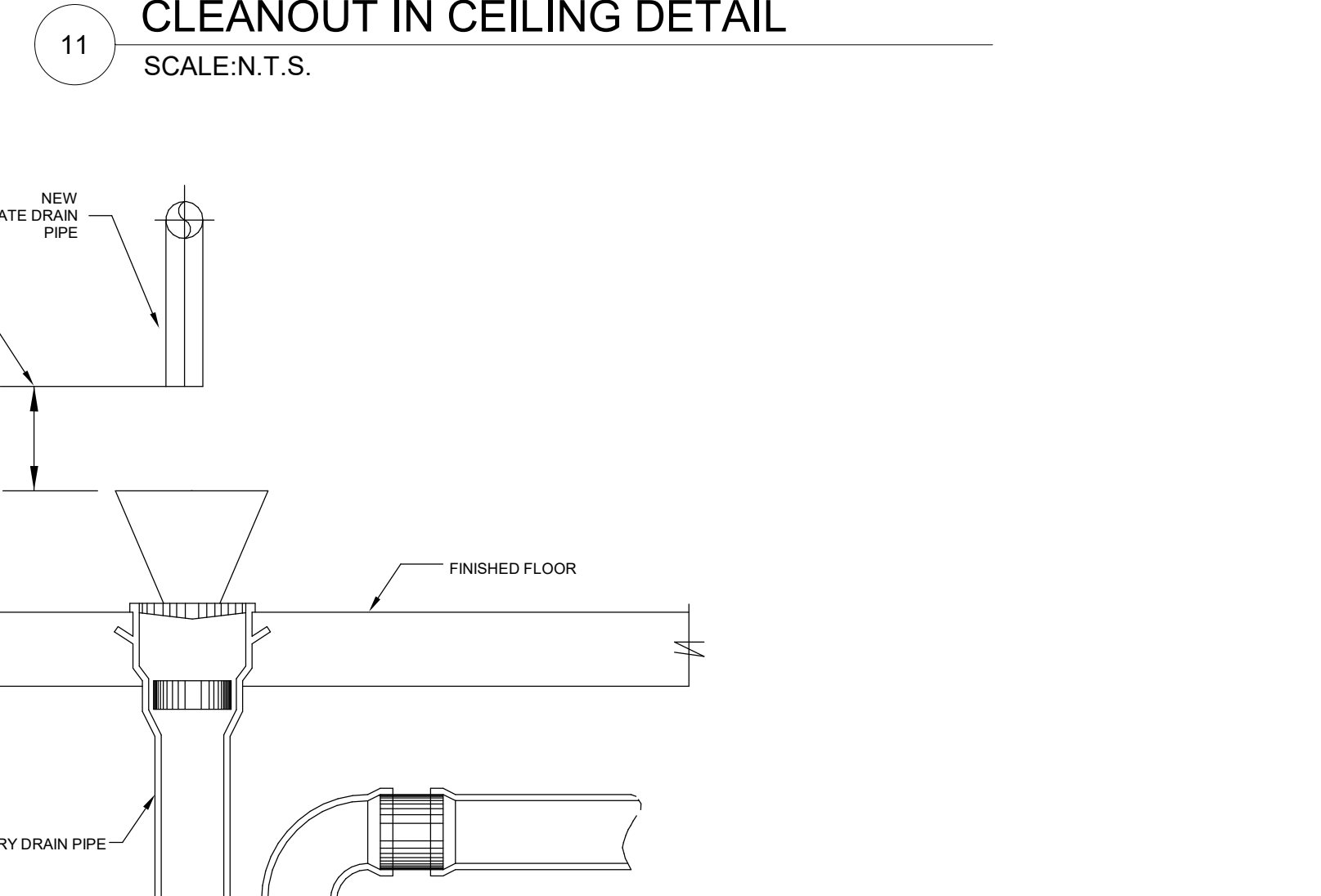
12 CLEANOUT IN FLOOR DETAIL
SCALE: N.T.S.



13 CONDENSATE DRAIN CONNECTION TO SANITARY
SCALE: N.T.S.



14 FCU CONDENSATE DRAINAGE DETAIL
SCALE: N.T.S.



15 CONDENSATE DRAIN TO FUNNEL FLOOR DRAIN
SCALE: N.T.S.

REVISIONS:

NO.	DATE	PARTICULAR
1	2023-11-28	ISSUE FOR 100% DO
2	2024-05-24	ISSUED FOR PERMIT
3	2024-08-16	ISSUED FOR TENDER
4	2024-08-26	ISSUED FOR BUILDING PERMIT REVISION
5	2024-10-08	ISSUED FOR TENDER ADDENDUM 7

NOTES:

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KEY PLAN:

CLIENT:
NEWMARKET

PROJECT:
22275

MULOCK ESTATE ADAPTIVE RE-USE

16780 Yonge Street,
Newmarket, Ontario.

ORIGINAL PAGE SIZE: ARCH E1 - 30" x 42"

KEY TO DETAIL LOCATION:
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PROJECT DATE: 2024-10-08 13:37 PM

AUTOSKETCH/IMMOC ESTER ADAPTIVE RE-USE/22-107-0000 HE MODEL 872041

2024-10-08 13:37 PM

DRAWN BY: Author

CHECKED BY: Checker

SCALE As indicated

DETAIL SHEET II

M-801

FAN SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	AIR FLOW L/S [CFM]	ESP Pa [IN.WC]	FAN SPEED RPM	ELECTRICAL				EMERGENCY POWER	NOISE (INLET) [dBA]	WEIGHT kg [LB]	NOTES	
									V/PH/Hz	HP	FLA	VFD					
EF-1	SPRINKLER RM	EXHAUST	GREENHECK	SPA-80	EXHAUST FAN	54 L/S [114C...]	119Pa 0.1...	870	115/160	0.02	0.1	N	N	N	35	13.5KG 30LB	1,2,4,5
EF-2	BASEMENT WC	EXHAUST	GREENHECK	SPA-80	EXHAUST FAN	54 L/S [114C...]	119Pa 0.1...	870	115/160	0.02	0.1	N	N	N	35	13.5KG 30LB	1-3,5
EF-3	BASEMENT WC	EXHAUST	GREENHECK	SPA-80	EXHAUST FAN	54 L/S [114C...]	119Pa 0.1...	870	115/160	0.02	0.1	N	N	N	35	13.5KG 30LB	1-3,5
EF-4	2ND FLOOR	EXHAUST	GREENHECK	SQ-80	EXHAUST FAN	50 L/S [105C...]	119Pa 0.1...	870	115/160	0.02	0.1	N	N	N	35	27KG 59LB	1-3,5
EF-5	JANITOR CLOSET 2ND FLOOR	EXHAUST	GREENHECK	SPA-80	EXHAUST FAN	54 L/S [114C...]	119Pa 0.1...	870	115/160	0.02	0.1	N	N	N	35	13.5KG 30LB	1,2,4,5

NOTES:
1. PROVIDE WITH DISCONNECT
2. PROVIDE WITH STARTER
3. CONTROLLED BY LIGHT SWITCH
4. ALWAYS ON
5. MAXIMUM SOUND POWER LEVEL OF 81 DBA

SCHEDULE OF GRILLES, DIFFUSERS & LOUVRES

TAG	TYPE	AREA SERVED	MANUFACTURER	MODEL	NORMAL FACE-NECK SIZE MM (IN)	DESCRIPTION / ACCESSORIES	VOLUME CONTROL	MATERIAL	MAX NO	REMARKS
A	SQUARE PLAQUE DIFFUSER	REFER TO FLOOR PLAN	EH PRICE	SPD	REFER TO FLOOR PLAN	300MM X 300MM (12"x12") SQUARE PLAQUE	YES	ALUMINUM	34	1,2
B	SQUARE PLAQUE RETURN	REFER TO FLOOR PLAN	EH PRICE	SPD	REFER TO FLOOR PLAN	300MM X 300MM (12"x12") SQUARE PLAQUE	YES	ALUMINUM	34	1,2
C	LINEAR BAR GRILLE SUPPLY (FLOOR)	REFER TO FLOOR PLAN	EH PRICE	LBP-16A	REFER TO FLOOR PLAN	15" DEFLECTION, 32MM(1.25") SPACING. REFER TO PLANS FOR...	YES	ALUMINUM	34	1
D	LINEAR BAR GRILLE RETURN	REFER TO FLOOR PLAN	EH PRICE	LBP-15A	REFER TO FLOOR PLAN	0" DEFLECTION, 32MM(1.25") SPACING. REFER TO PLANS FOR...	NO	ALUMINUM	34	1,2
E	LINEAR SUPPLY DIFFUSER	REFER TO FLOOR PLAN	EH PRICE	SDS150	REFER TO FLOOR PLAN	1500MM (48") LENGTH, 1 SLOT 38MM(1.5") WIDTH, C/W CUSTOM...	YES	ALUMINUM	34	1-4
F	LINEAR BAR GRILLE RETURN	REFER TO FLOOR PLAN	EH PRICE	LBP-16A	REFER TO FLOOR PLAN	15" DEFLECTION, 32MM(1.25") SPACING. REFER TO PLANS FOR...	YES	ALUMINUM	34	1
G	LINEAR BAR GRILLE RETURN	REFER TO FLOOR PLAN	EH PRICE	LBP-15A	REFER TO FLOOR PLAN	0" DEFLECTION, 32MM(1.25") SPACING. REFER TO PLANS FOR...	NO	ALUMINUM	34	1
L1	INTAKE LOUVRE	REFER TO FLOOR PLAN	RUSKIN	ELB0375I	REFER TO FLOOR PLAN	37.5" ANGLE BLADE, C/W BIRDSCREEN	NO	ALUMINUM	34	1
L2	EXHAUST LOUVRE	REFER TO FLOOR PLAN	RUSKIN	ELB0375E	REFER TO FLOOR PLAN	37.5" ANGLE BLADE, C/W BIRDSCREEN	NO	ALUMINUM	34	1

NOTES:
1. FINISH TO ARCHITECTURAL DIRECTION.
2. PROVIDE MANUFACTURER RECOMMENDED MOUNTING FOR EACH CEILING TYPE. REFER TO ARCHITECTS RCP FOR EACH CEILING TYPE.
3. PROVIDE LIGHT SHIELD
4. CONCEALED PLASTER FRAME/MUD IN LINEAR DIFFUSER

HUMIDIFIER SCHEDULE

TAG	SERVICE	MANUFACTURER	MODEL	ELECTRICAL				WEIGHT		REMARKS
				V/PH/Hz	MCA	MOCP			[KG]	
					[AMP]					
HU-1	FCU-11	HONEYWELL	HM750A1000	120/160	12	15		9		1-3
HU-2	FCU-12	HONEYWELL	HM750A1000	120/160	12	15		9		1-3
HU-3	FCU-13	HONEYWELL	HM750A1000	120/160	12	15		9		1-3
HU-4	FCU-17	HONEYWELL	HM750A1000	120/160	12	15		9		1-3
HU-5	FCU-16	HONEYWELL	HM750A1000	120/160	12	15		9		1-3
HU-6	FCU-14	HONEYWELL	HM750A1000	120/160	12	15		9		1-3
HU-7	FCU-15	HONEYWELL	HM750A1000	120/160	12	15		9		1-3

NOTES:
1. PROVIDE WITH UNIT CONTROLLER.
2. PROVIDE SINGLE POINT OF CONNECTION.
3. DRAIN HUMIDIFIER TO NEAREST SINK UPSTREAM OF P-TRAP OR FLOOR DRAIN.

BRANCH SELECTOR BOX SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL	ELECTRICAL			SOUND dB (A)	WEIGHT
				V/PH/Hz	MCA	MOCP		
BSB-1	BASMENT CORRIDOR	DAIKIN	BSF6024TVJ	208/160	0.6	15	40	33
BSB-2	BASEMENT MAIN HALL	DAIKIN	BSF6024TVJ	208/160	0.6	15	40	33
BSB-3	2ND FLOOR	DAIKIN	BSF6024TVJ	208/160	0.8	15	40	37

WATER SOFTENING TANK SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL	TANK DATA		DIMENSIONS		ELECTRICAL		WEIGHT (KG)
				RESIN QTY (L)	PEAK FLOW RATE...	DIAMETER (MM)	HEIGHT (MM)	V/PH/Hz	POWER...	
WS-1	SPRINKLER RM	CULLIGAN	HE-1.5-090	141.6	135.5	457	1651	120/160	22	680
WS-2	SPRINKLER RM	CULLIGAN	HE-1.5-090	141.6	135.5	457	1651	120/161	23	680
WS-3	SPRINKLER RM	CULLIGAN	HE-1.5-090	141.6	135.5	457	1651	120/162	24	680
BT-1	SPRINKLER RM	CULLIGAN	HE-1.5-090	N/A	N/A	610	1270	N/A	N/A	680

PUMP SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	FLUID	FLOW RATE [L/S]	PUMP HEAD [KPa]	ELECTRICAL				NOTES
								V/PH/Hz	MCA [A]	HP	VFD	
DRCP-1	SPRINKLER ROOM	DHW	GRUNDFOS	UPS 32-80 F.B	WATER	0.50	45.00	115/160	2.5	FHP	N	1
SP-1	ELEVATOR SUMP PIT	ELEVATOR SUMP PIT	GRUNDFOS	UNILIFT AP12.40.04.1	WATER	3.2	60	115/160	8	FHP	N	1
SP-2	GROUND WATER SUMP PIT	GROUND WATER SUMP PIT	GRUNDFOS	UNILIFT AP12.40.04.1	WATER	3.2	60	115/160	8	FHP	N	1
SP-3	GROUND WATER SUMP PIT	GROUND WATER SUMP PIT	GRUNDFOS	UNILIFT AP12.40.04.1	WATER	3.2	60	115/160	8	FHP	N	1

NOTES:
1. PROVIDE W/ STARTER

VRF REFRIGERATION SYSTEM- WATER COOLED CONDENSING UNIT SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	FLUID	COOLING CAPACITY		HEATING CAPACITY		MAX REFRIGERANT PIPE LENGTH	MAX INDOOR UNITS CONNECT	REFRIGERANT	ELECTRICAL				OVERALL SOUND POWER LEVEL (DBA)	DIMENSION (LXWXH) MM	WEIGHT KG	NOTES
						[TON]	KW	[TON]	KW				MCA	MOP	RLM (COMP)	[A]				
CU-1	GEOTHERMAL ROOM	HVAC	DAIKAN	RWEQ144TATJU	40% PG	12.0	6.4	12.0	12.2	300	20	R410A	208/360	44.6	50	24	75	765x560x880	192	1-5
CU-2	GEOTHERMAL ROOM	HVAC	DAIKAN	RWEQ120TATJA	40% PG	10.0	4.7	10.0	9.5	300	20	R410A	208/360	36.5	45	20.9	55	762x559x865	192	1-5

NOTES:
1. IF NOT NOTED OTHERWISE IN THE SCHEDULE ABOVE, NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (26.7/19.4°C DBWB), OUTDOOR OF 95/75°F (35/23.9°C DBWB)
2. IF NOT NOTED OTHERWISE IN THE SCHEDULE ABOVE, NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70/60°F (21.1/15.6°C DBWB), OUTDOOR OF 47/43°F (8.3/6.1°C DBWB)
3. SEER VALUES UP TO 18.0 AND HSPF VALUES UP TO 10.0 ENGINEERED WITH SWING COMPRESSORS
4. INVERTER COMPRESSORS TO INCREASE EFFICIENCY AND AVOID STARTING CURRENT RUSH
5. COOLING OPERATION RANGE: 23~122°F (-5~50°C), HEATING OPERATION RANGE: 4~90°F (-20~15.6°C), OPTIONAL AUTO CHANGEOVER TO AUXILIARY HEAT

VRF INDOOR UNIT SCHEDULE

TAG	SERVICE	CONDENSING UNIT CONNECTED	MANUFACTURER	MODEL	TYPE	SUPPLY FAN		DESIGN CAPACITY				NOMINAL CAPACITY				ELECTRICAL			SOUND PRESSURE [dBA]	WEIGHT [KG]	NOTES
						PEAK AIR FLOW	ESP	TOTAL COOLING	SENSIBLE COOLING	TOTAL HEATING	TOTAL COOLING	SENSIBLE COOLING	TOTAL HEATING	POWER SUPPLY	MCA / MOP	INPUT POWER					
						L/S [CFM]	Pa [IN.WC]	W [BTU/H]	W [BTU/H]	W [BTU/H]	W [BTU/H]	W [BTU/H]	W [BTU/H]	[V/PH/Hz]	[A]	[kW]					
FCU-1	BASEMENT KITCHEN	CU-1	DAIKAN	FXAQ08PVJU	WALL-MOUNTED	132 [280]	N/A	2393 [8166]	1883 [6424]	3077 [10500]	2784 [9500]	2139 [7300]	3077 [10500]	208/160	0.4/15	0.02	31-37	12	1-6		
FCU-2	BASEMENT KITCHEN	CU-1	DAIKAN	FXAQ08PVJU	WALL-MOUNTED	132 [280]	N/A	2393 [8166]	1883 [6424]	3077 [10500]	2784 [9500]	2139 [7300]	3077 [10500]	208/160	0.4/15	0.02	31-36	12	1-6		
FCU-3	BASEMENT HALL	CU-1	DAIKAN	FXSQ07TAVJU	CEILING SUSPENDED	133 [281]	150 [0.6]	1946 [6642]	1467 [5005]	2500 [8530]	2198 [7500]	1699 [5800]	2491 [8500]	208/160	0.8/15	0.1	28-33	25	1-6		
FCU-4	BASEMENT BAR/CELLAR	CU-1	DAIKAN	FXSQ15TAVJU	CEILING SUSPENDED	250 [530]	150 [0.6]	3833 [13,078]	2922 [9971]	5000 [17,060]	4396 [15,000]	3312 [11,300]	4982 [17,000]	208/160	1.4/15	0.11	30-34	25	1-6		
FCU-5	LIBRARY	CU-1	DAIKAN	FXSQ12TAVJU	CEILING SUSPENDED	158 [335]	150 [0.6]	3070 [10,474]	2464 [8408]	4000 [13,648]	3517 [12,000]	2843 [9700]	3956 [13,500]	208/160	0.8/15	0.1	28-33	25	1-6		
FCU-6	MUSIC ROOM	CU-1	DAIKAN	FXSQ07TAVJU	CEILING SUSPENDED	133 [281]	150 [0.6]	1946 [6642]	1467 [5005]	2500 [8530]	2198 [7500]	1699 [5800]	2491 [8500]	208/160	0.8/15	0.1	28-33	25	1-6		
FCU-7	PARLOUR ROOM	CU-1	DAIKAN	FXSQ18TAVJU	CEILING SUSPENDED	283 [600]	150 [0.6]	4610 [15,729]	3398 [11,953]	5900 [20,131]	5275 [18,000]	3986 [13,600]	5861 [20,000]	208/160	1.6/15	0.11	30-34	35	1-6		
FCU-8	DINING ROOM	CU-1	DAIKAN	FXSQ08TAVJU	CEILING SUSPENDED	150 [318]	150 [0.6]	2486 [8484]	1788 [6101]	3099 [10,577]	2784 [9500]	2198 [7500]	3077 [10,500]	208/160	0.8/15	0.1	28-33	25	1-6		
FCU-9	GROUND FLOOR KITCHEN	CU-1	DAIKAN	FXAQ12PVJU	WALL-MOUNTED	137 [290]	N/A	3018 [10,299]	2225 [7593]	3956 [13,499]	3517 [12,000]	2808 [9800]	3956 [13,500]	208/160	0.4/15	0.02	31-36	12	1-6		
FCU-10	GROUND FLOOR KITCHEN	CU-1	DAIKAN	FXAQ12PVJU	WALL-MOUNTED	137 [290]	N/A	3018 [10,299]	2225 [7593]	3956 [13,499]	3517 [12,000]	2808 [9800]	3956 [13,500]	208/160	0.4/15	0.02	31-36	12	1-6		
FCU-11	MAIN HALL	CU-1	DAIKAN	FXSQ15TAVJU	CEILING SUSPENDED	250 [530]	150 [0.6]	3833 [13,078]	2922 [9971]	5000 [17,060]	4396 [15,000]	3312 [11,300]	4982 [17,000]	208/160	1.4/15	0.11	30-34	25	1-6		
FCU-12	OFFICE AREA	CU-2	DAIKAN	FXSQ08TAVJU	CEILING SUSPENDED	533 [1130]	150 [0.6]	6266 [21,665]	4663 [16,041]	11,700 [40,000]	10,550 [36,000]	7532 [26,700]	11,722 [40,000]	208/160	2.5/15	0.16	30-36	46	1-6		
FCU-13	GALLERY 1	CU-2	DAIKAN	FXSQ07TAVJU	CEILING SUSPENDED	133 [281]	150 [0.6]	1947 [6642]	1467 [5005]	2500 [8530]	2198 [7500]	1699 [5800]	2491 [8500]	208/160	0.8/15	0.1	28-33	25	1-6		
FCU-14	GALLERY 2	CU-2	DAIKAN	FXSQ24TAVJU	CEILING SUSPENDED	350 [742]	150 [0.6]	6169 [21,051]	4458 [15,510]	7900 [26,955]	7034 [24,000]	5011 [17,100]	7913 [27,000]	208/160	1.8/15	0.16	29-34	37	1-6		
FCU-15	GALLERY 3	CU-2	DAIKAN	FXSQ15TAVJU	CEILING SUSPENDED	250 [530]	150 [0.6]	3833 [13,078]	2922 [9971]	5000 [17,060]	4396 [15,000]	3312 [11,300]	4982 [17,000]	208/160	1.4/15	0.11	30-34	25	1-6		
FCU-16	GALLERY 4	CU-2	DAIKAN	FXSQ15TAVJU	CEILING SUSPENDED	250 [530]	150 [0.6]	3833 [13,078]	2922 [9971]	5000 [17,060]	4396 [15,000]	3312 [11,300]	4982 [17,000]	208/160	1.4/15	0.11	30-34	25	1-6		
FCU-17	GALLERY 5	CU-2	DAIKAN	FXSQ18TAVJU	CEILING SUSPENDED	283 [600]	150 [0.6]	4610 [15,729]	3398 [11,953]	5900 [20,131]	5275 [18,000]	3986 [13,600]	5861 [20,000]	208/160	1.6/15	0.11	30-34	35	1-6		
FCU-18	PROGRAMMING SUPPORT SPACE	CU-2	DAIKAN	FXAQ12PVJU	WALL-MOUNTED	137 [290]	N/A	3018 [10,299]	2225 [7593]	3956 [13,499]	3517 [12,000]	2808 [9800]	3956 [13,500]	208/160	0.4/15	0.02	31-36	12	1-6		
FCU-19	ELECTRICAL RM	CU-1	DAIKAN	FXAQ24PVJU	WALL-MOUNTED	300 [635]	N/A	18,900 [65,300]	5530 [18,900]	7766 [26,499]	7204 [24,000]	5275 [18,000]	7766 [26,500]	208/160	0.6/15	0.06	41-47	14	1-6		