
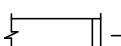
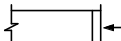




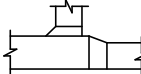
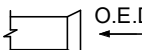
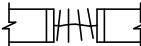



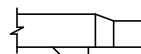



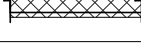
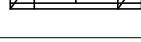
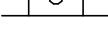


GENERAL	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW WORK
	CONNECT TO EXISTING
	AIRFLOW / PIPE FLOW DIRECTION
	PIPE TURNING DOWN
	PIPE TURNING UP
	PRESSURE REDUCING VALVE
	ROOM THERMOSTAT
	ROOM HUMIDISTAT
	PUMP
	CONTROL VALVE - TWO WAY
	CONTROL VALVE - THREE WAY
	ISOLATION VALVE
	BALANCING VALVE
	CHECK VALVE
	STRAINER - OVER 50MM WITH VALVED FLUSHING DRAIN
	PIPE BRANCH OFF TOP
	PIPE BRANCH OFF BOTTOM
	RELIEF VALVE
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	CAP
	SOLENOID VALVE
	FUSIBLE LINK VALVE
	HEAT TRACING

	DUCT RISE (SINGLE LINE)
	SUPPLY GRILLE - DIMENSIONS AS SHOWN ON SCHEDULE
	EXHAUST/RETURN GRILLE - DIMENSIONS AS SHOWN ON SCHEDULE
	CEILING SUPPLY AIR DIFFUSER - DIMENSIONS AS SHOWN ON SCHEDULE
	LINEAR SLOT DIFFUSER - DIMENSIONS AS SHOWN ON SCHEDULE
	CEILING EXHAUST/RETURN GRILLE - DIMENSIONS AS SHOWN ON SCHEDULE
	SUPPLY AIR ROUND DIFFUSER
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (DOUBLE LINE)
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH. DIRECTION AS SHOWN (DOUBLE LINE)
	FLEXIBLE DUCT CONNECTION
	ACOUSTICALLY LINED DUCTWORK (DOUBLE LINE)
	DUCT SILENCER
	FLEXIBLE DUCT (DOUBLE LINE)
	FLEXIBLE DUCT (SINGLE LINE)
	FLEXIBLE DUCT CONNECTION WITH BALANCING DAMPER ON TAKE-OFF
	DUCT MOUNTED HEATING COIL (DOUBLE LINE)
	DUCT MOUNTED HEATING COIL (SINGLE LINE)
	FIRE RATED DUCTWORK (DOUBLE LINE)
	TRANSFER AIR DUCT
	SUPPLY AIR LIGHT TROFFER

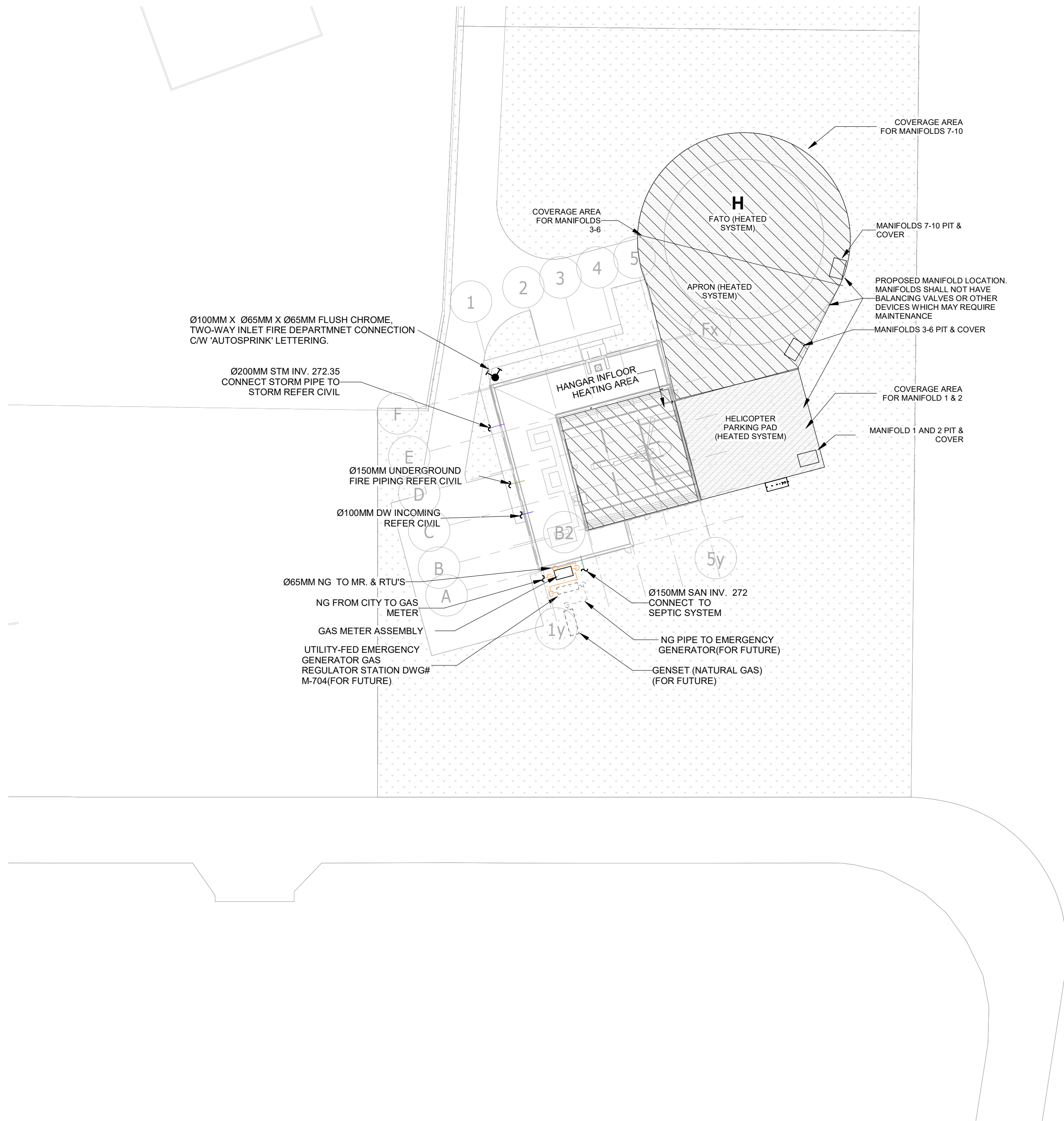
FIRE PROTECTION	
SYMBOL	DESCRIPTION
	SPRINKLER LINE
	FIRE MAIN
	STANDPIPE
	SUPERVISED VALVE
	WATER FLOW ALARM
	PRESSURE SWITCH
	TEST CONNECTION
	FIRE DEPARTMENT CONNECTION
	PRESSURE SWITCH
	WATER FLOW ALARM
	EXCESS PRESSURE PUMP
	WET ALARM CHECK VALVE
	TEST & DRAIN VALVE
	WATER FLOW ALARM
	PRESSURE SWITCH
	DRY ALARM CHECK VALVE
	TEST & DRAIN VALVE
	AIR COMPRESSOR
	SPRINKLER VALVE CABINET
	FIRE EXTINGUISHER CABINET
	FIRE HOSE CABINET
	FIRE EXTINGUISHER C/W WALL BRACKET
	POST-INDICATOR VALVE
	FIRE HYDRANT C/W SHUT-OFF VALVE
	PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	FIRE SUPPRESSION (CLEAN AGENT) SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD

MECHANICAL DRAWING LIST	
DRAWING #	DRAWING NAME
S	
M-000	COVER PAGE
M-001	MECHANICAL LEGEND & DRAWING LIST
M-100	MECHANICAL SITE PLAN
M-150	ROOF PLAN
M-250	FOUNDATION PLAN
M-251	PLUMBING NEW WORK - LEVEL 1
M-252	MECHANICAL ROOM PIPING
M-351	VENTILATION NEW WORK - LEVEL 1
M-352	VENTILATION NEW WORK - ISOMETRIC VIEWS
M-551	FIRE PROTECTION NEW WORK - LEVEL 1
M-701	FIRE PROTECTION SCHEMATIC
M-702	HEATING SCHEMATIC
M-703	SHEET DELETED
M-704	GAS SCHEMATIC
M-750	MECHANICAL CONTROL SEQUENCES I
M-751	MECHANICAL CONTROL SEQUENCES II
M-752	MECHANICAL CONTROL SEQUENCES III

MECHANICAL DRAWING LIST	
DRAWING #	DRAWING NAME
M-753	MECHANICAL CONTROL SEQUENCES IV
M-754	MECHANICAL CONTROL SEQUENCES V
M-755	MECHANICAL CONTROL SEQUENCES VI
M-800	MECHANICAL TYPICAL DETAILS I
M-801	MECHANICAL TYPICAL DETAILS II
M-802	MECHANICAL TYPICAL DETAILS III
M-803	MECHANICAL TYPICAL DETAILS IV
M-804	MECHANICAL TYPICAL DETAILS V
M-805	MECHANICAL TYPICAL DETAILS VI
M-806	MECHANICAL TYPICAL DETAILS VII
M-807	MECHANICAL TYPICAL DETAILS VIII
M-808	MECHANICAL TYPICAL DETAILS IX
M-809	MECHANICAL TYPICAL DETAILS X
M-810	MECHANICAL TYPICAL DETAILS XI
M-900	MECHANICAL SCHEDULES
M-901	MECHANICAL SCHEDULES II
M-902	MECHANICAL SCHEDULES III
M-903	MECHANICAL SCHEDULES IV
M-904	MECHANICAL SCHEDULES V

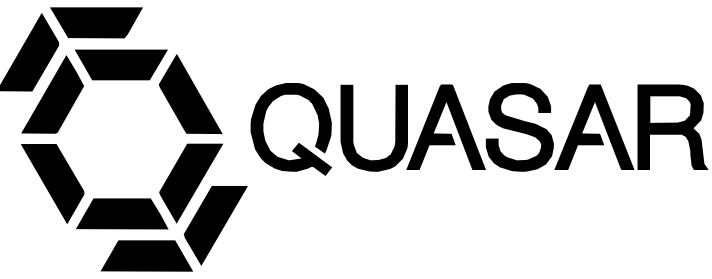
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1 SITE PLAN M  
SCALE: 1 : 500



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88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

Key  
Plan

NO.	ISSUED	DATE
12	ISSUED FOR CONSTRUCTION	2025-09-05
11	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
10	ISSUED FOR PROGRESS	2025-05-02
9	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
8	ISSUED FOR ADDENDUM 15	2024-12-04
7	ISSUED FOR ADDENDUM 14	2024-11-27
6	ISSUED FOR ADDENDUM 13	2024-10-30
5	ISSUED FOR ADDENDUM 10	2024-10-15
4	ISSUED FOR ADDENDUM 6	2024-09-30
3	ISSUED FOR ADDENDUM 3	2024-09-23
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

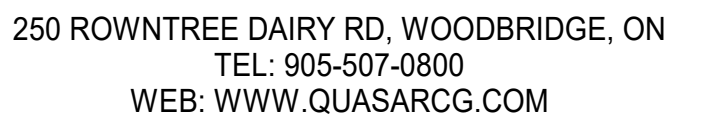
Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: 1 : 500



Sheet  
Title:  
MECHANICAL SITE PLAN

Drawing  
No.  
M-100



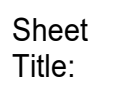


88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

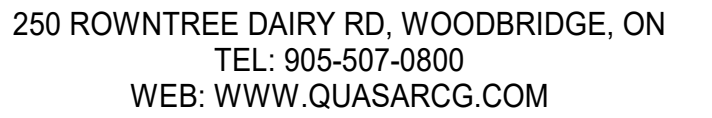
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8	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
7	ISSUED FOR PROGRESS	2025-05-02
6	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
5	ISSUED FOR ADDENDUM 14	2024-11-27
4	ISSUED FOR ADDENDUM 6	2024-09-30
3	ISSUED FOR ADDENDUM 3	2024-09-23
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31
NO.	ISSUED	DATE

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Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: 1 : 100



Drawing  
No. **M-150**



88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

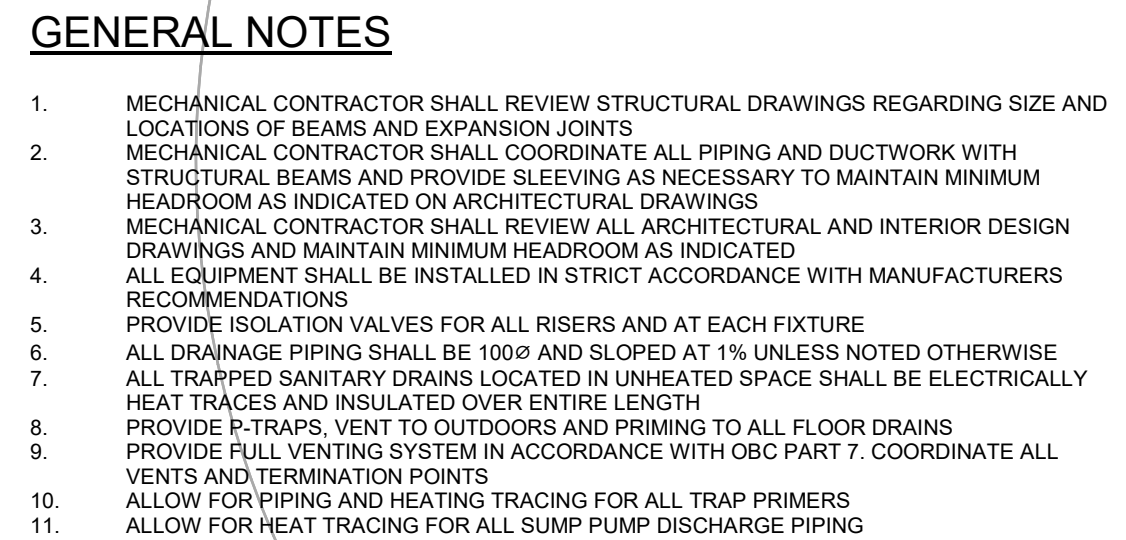
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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated

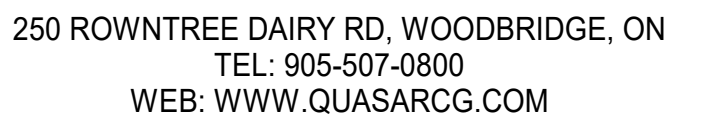


Drawing  
No.  
M-250



GENERAL NOTES FOR SNOW MELTING SYSTEM:





88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

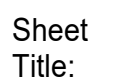
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## Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated

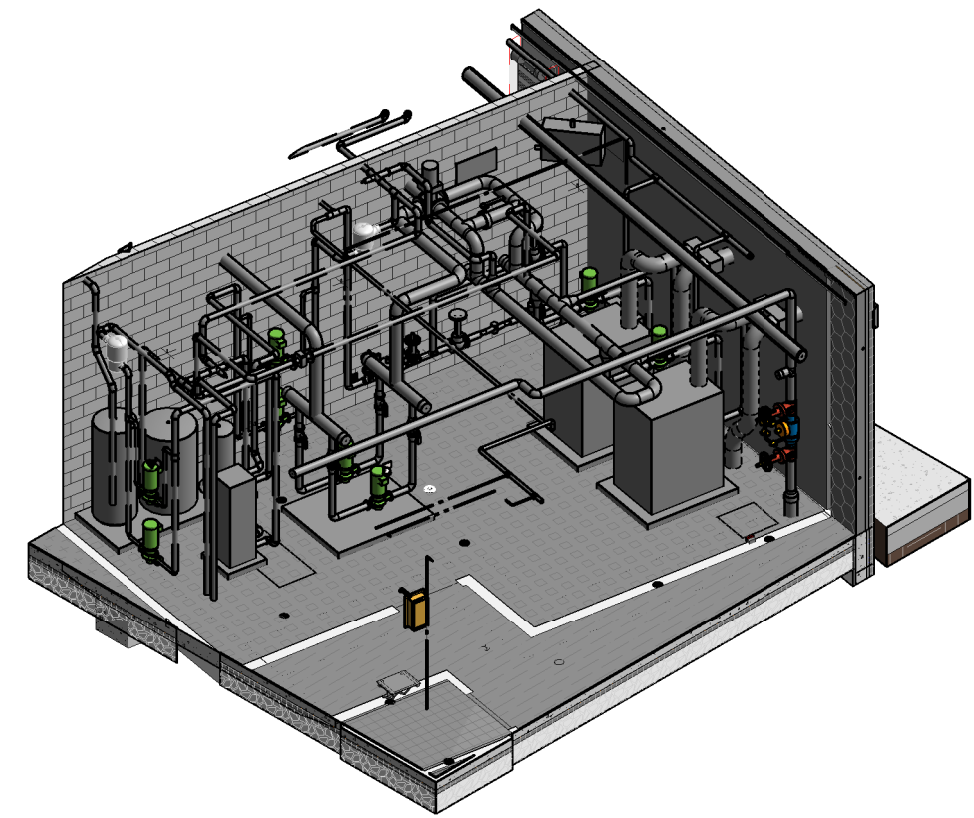
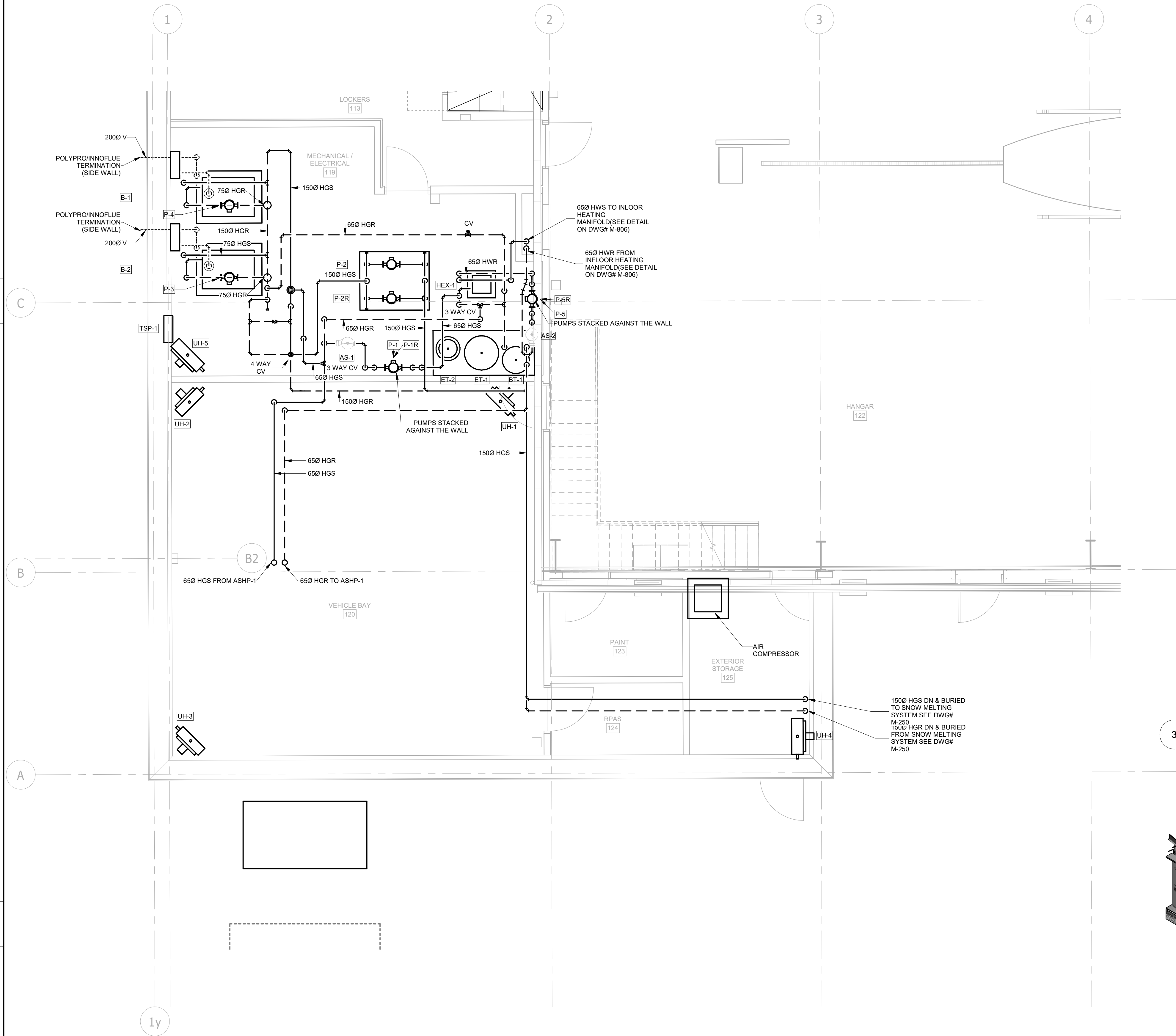


## PLUMBING NEW WORK - LEVEL 1

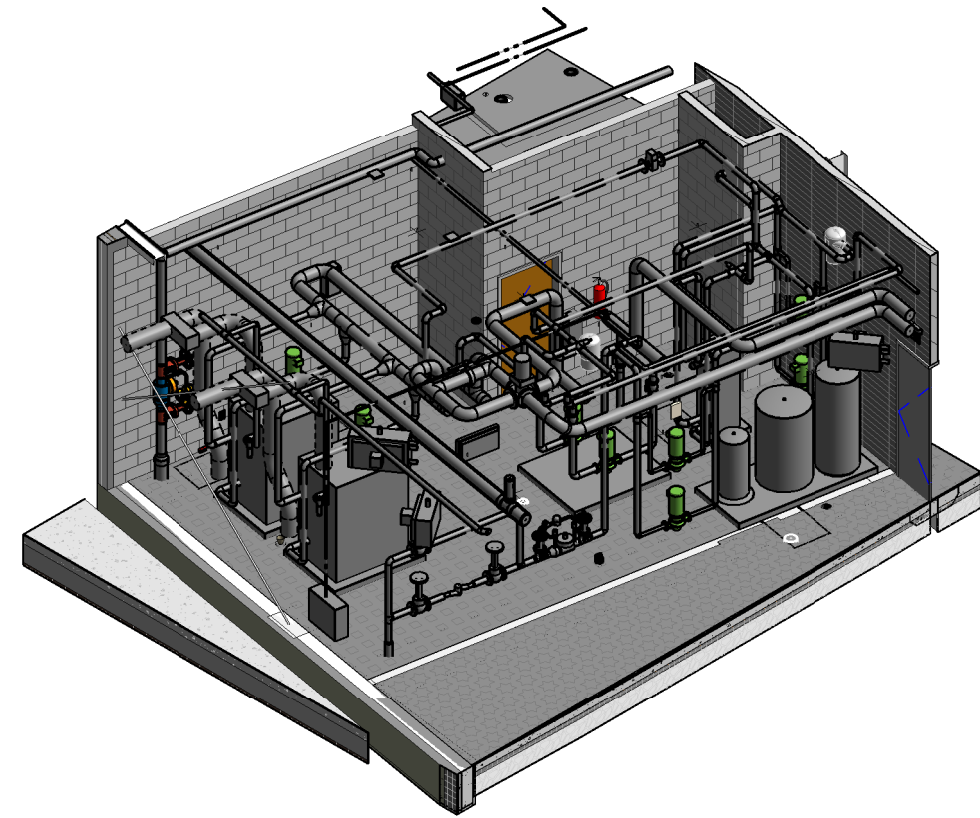
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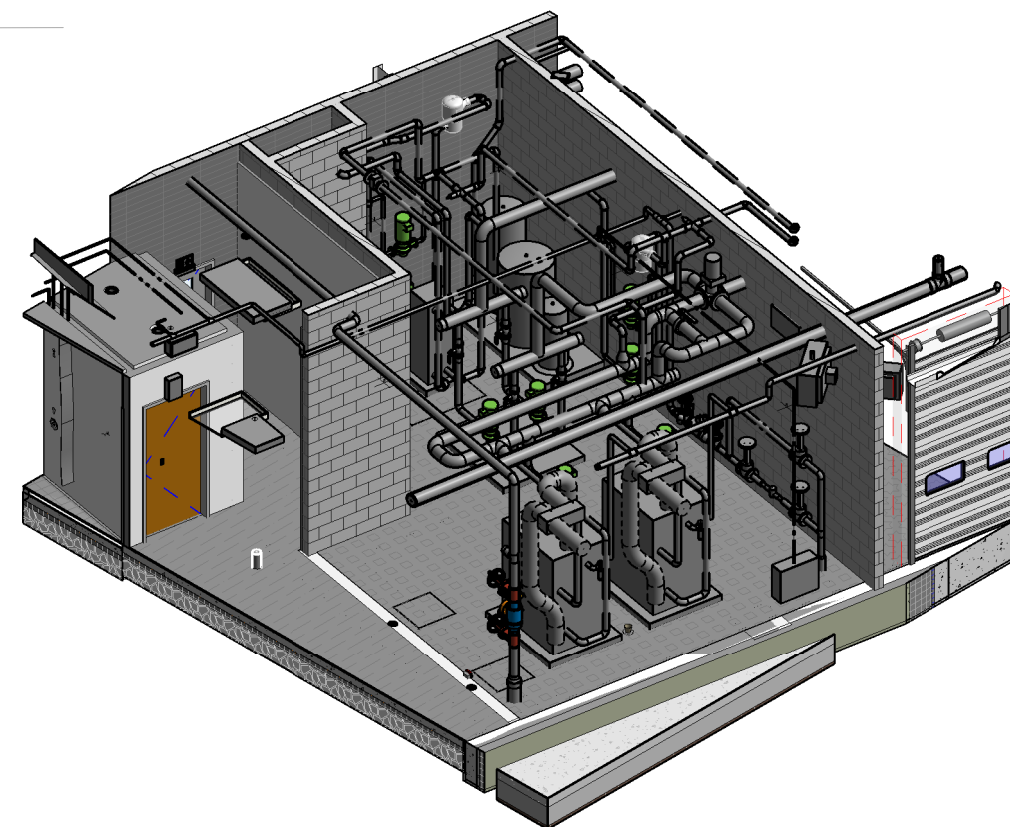
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2 MECH ROOM 3D VIEW 1  
SCALE:



3 MECH ROOM 3D VIEW 2  
SCALE:



4 MECH ROOM 3D VIEW 3  
SCALE:

GENERAL NOTES:

1. CONTRACTOR TO PROVIDE ALL MANIFOLDS AND CONNECTIONS AND PIPING FOR INFLOOR HEATING
2. CONTRACTOR TO PROVIDE PROPOSED MANIFOLD LOCATIONS AND SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

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88 BALES DRIVE EAST  
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Key  
Plan

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8	ISSUED FOR PROGRESS	2025-05-02
7	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
6	ISSUED FOR ADDENDUM 14	2024-11-27
5	ISSUED FOR ADDENDUM 8	2024-10-07
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2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: 1 : 50

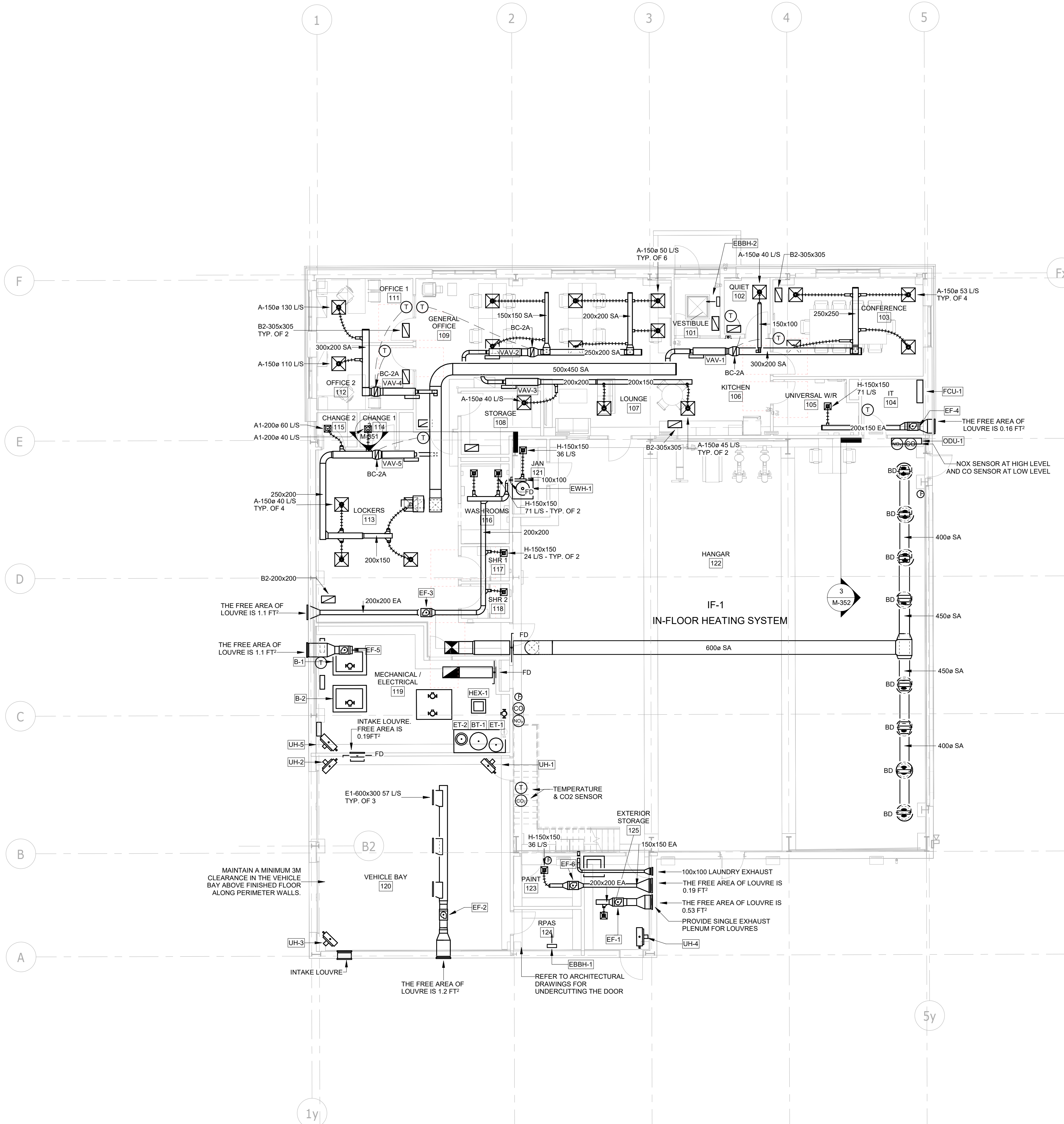


Sheet  
Title:

MECHANICAL ROOM  
PIPING

Drawing  
No.  
M-252



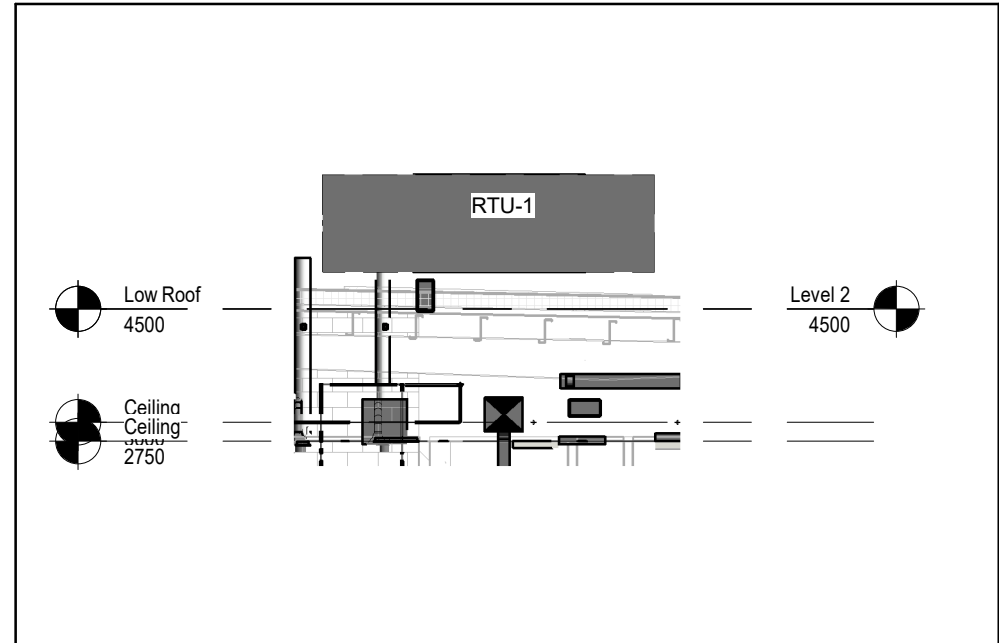


1 VENTILATION NEW WORK - LEVEL 1  
SCALE: 1 : 100

- 1.0 SEQUENCE OF OPERATIONS RTU-2**
- 1.1 GENERAL**
- 1.1.1. THE ROOFTOP UNIT PROVIDES HEATING, COOLING, AND VENTILATION TO THE HANGER. WHEN GAS DETECTION SENSORS (CO/NOX) DETECT THE PRESENCE OF GAS, THE UNIT WILL OPERATE AT FULL VOLUME AND 100% OUTSIDE AIR REGARDLESS OF THE MODE OF OPERATION, UNTIL GAS LEVELS DROP TO SUITABLE LEVELS.
- 1.1.2. THE UNIT CONSISTS OF A SUPPLY FAN, EXHAUST FAN, MIXING DAMPERS, DX COOLING COIL, AND A GAS FIRED BURNER.
- 1.1.3. THE UNIT IS A VARIABLE VOLUME UNIT AND THE SUPPLY AND RETURN FANS HAVE BEEN PROVIDED WITH VARIABLE FREQUENCY DRIVES.
- 1.1.4. PROVIDE AN ALARM STROBE/HORN IN THE SPACE FOR LOCAL HIGH GAS ALARM ANNUNCIATION.
- 1.1.5. OCCUPANCY STATUS IS NOT CONSIDERED FOR OPERATION
- 1.2 SAFETIES AND LIMITS**
- 1.2.1. FAN SPEED MODULATION IS DISABLED UNTIL FAN RUN STATUS IS RECEIVED.
- 1.2.2. THE MINIMUM SPEED FOR THE VFD IS 50% (30 HZ - CONFIRM MIN SPEED WITH BALANCER).
- 1.2.3. SUPPLY AIR TEMPERATURE CONTROL IS DISABLED UNTIL FAN RUN STATUS IS RECEIVED.
- 1.2.4. DAMPER CONTROL IS DISABLED UNTIL FAN RUN STATUS IS RECEIVED.
- 1.2.5. SIMULTANEOUS HEATING AND COOLING IS NOT PERMITTED.
- 1.2.6. IF THE HEAT WHEEL IS OFF FOR MORE THAN 1 DAY THE CONTROLLER WILL ROTATE THE WHEEL FOR A MINIMUM OF 5 MINUTES.
- 1.3 MODES OF OPERATION**
- 1.4 OCCUPIED MODE**
- 1.4.1. OVERVIEW: THE UNIT WILL PROVIDE HEATING, COOLING, AND VENTILATION TO THE SPACE. THE UNIT WILL CONTROL TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT.
- 1.4.2. SPACE TEMPERATURE SETPOINTS: THE HEATING SETPOINT WILL BE SET TO 16 DEG C (OR 18 DEG C WHEN ASHP IS OFF)
- 1.4.3. GAS DETECTION SETPOINTS: THE CO SETPOINT IS 25 PPM. THE NOX SETPOINT IS 1 PPM. UNIT RUNS AT 100%.
- 1.4.4. SUPPLY FAN: THE SUPPLY FAN RUNS CONTINUOUSLY AT FULL SPEED.
- 1.4.5. RETURN FAN: THE POWER RETURN FAN RUNS IN CONJUNCTION WITH THE FRESH AIR DAMPER. ONCE THE DAMPER IS OPEN ABOVE 30%, THE POWER RETURN FAN WILL START AND IT'S SPEED WILL BE SET IN ACCORDANCE WITH THE AMOUNT OF FRESH AIR BEING PROVIDED.
- 1.4.6. MIXED AIR DAMPERS: THE DAMPERS WILL CONTROL TO MAINTAIN THE MINIMUM AMOUNT OF FRESH AIR TO THE SPACE. GAS DETECTION SENSORS BELOW SETPOINT AND FREE COOLING WHEN AVAILABLE AND REQUIRED. THE MINIMUM FRESH AIR LIMIT IS SET TO 20% (BALANCER TO CONFIRM). IF ANY GAS DETECTION SENSOR IS ABOVE SETPOINT, THE DAMPERS WILL BE SET TO 100% OUTDOOR AIR (GAS DETECTION OVERRIDES ALL OTHER CONTROL STRATEGIES).
- 1.4.7. GAS BURNER: THE GAS BURNER WILL BE CONTROLLED TO MAINTAIN THE SPACE TEMPERATURE AT SETPOINT.
- 1.4.8. HEAT WHEEL - BYPASS DAMPERS (FREE COOLING MODE): WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 12 DEG C THE HEAT WHEEL WILL MODULATE TO EITHER MAINTAIN THE SPACE TEMPERATURE AT SETPOINT OR TO PROVIDE FROST CONTROL. UNIT TURNS ON FOR THE FOLLOWING TRIGGERS:
- CO2 > LIMIT, 50% RETURN FAN, 50% SUPPLY FAN.
  - CO > LIMIT, 100% RETURN FAN, 80% SUPPLY FAN.
  - NOX > LIMIT, 100% RETURN FAN, 80% SUPPLY FAN OR TEMP < 16 DEG C.
  - OFF, 18 DEG C, 100% FAN.
- 1.4.9. FROST TEMPERATURE SETPOINT: THE FROST TEMPERATURE SETPOINT VARIES WITH THE EXHAUST AIR HUMIDITY AND OUTDOOR AIR TEMPERATURE AS SHOWN IN THE TABLE BELOW:

OAT (C)	SETPOINT RAH (20%)	OAT (C)	SETPOINT RAH (30%)	OAT (C)	SETPOINT RAH (40%)
-25	-15.6 C	-19.4	-11.1 C	-15.6	-8.2 C
-26.1	-17.7 C	-20.3	-7.8 C	-16.1	-4.9 C
-28.3	-9.3 C	-22.2	-4.4 C	-17.2	-1.9 C
-32.2	-5.6 C	-25	-1.9 C	-19.4	0.8 C
-35	-3.9 C	-27.2	-0.8 C	-20.6	2.3 C
-40	-3.3 C	-31.1	-0.5 C	-23.9	3.3 C

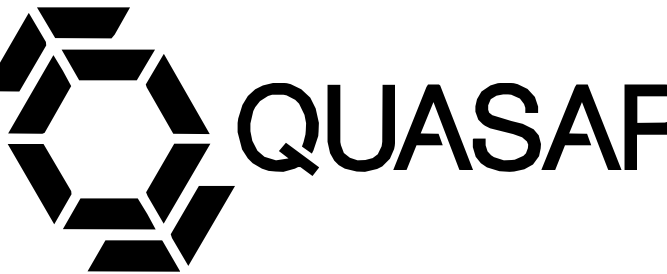
- 1.5 UNOCCUPIED MODE**
- 1.5.1. OVERVIEW: THE ROOFTOP UNIT IS OFF. DURING THE UNOCCUPIED MODE THE RTU WILL START UP TO PROVIDE HEATING/COOLING AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE AT THE UNOCCUPIED SETPOINTS AND FOR GAS DETECTION VENTILATION. IF THE SPACE TEMPERATURE DROPS BELOW THE HEATING SETPOINT OR RISES ABOVE THE COOLING SETPOINT THE UNIT WILL BE ENABLED TO PROVIDE UNOCCUPIED HEATING/COOLING. A DEADBAND OF 2 DEG C IS APPLIED TO RETURN THE UNIT TO THE OFF STATE. IF THE GAS DETECTION SENSORS (EITHER CO OR NOX) RISE ABOVE SETPOINT, THE UNIT WILL BE ENGAGED TO VENTILATE THE SPACE.
- 1.5.2. SPACE TEMPERATURE UNOCCUPIED SETPOINTS: THE UNOCCUPIED HEATING SETPOINT IS SET TO 18 DEG C. THE UNOCCUPIED COOLING SETPOINT IS SET TO 28 DEG C.
- 1.5.3. GAS DETECTION SETPOINTS: THE CO SETPOINT IS 25 PPM. THE NOX SETPOINT IS 1 PPM.
- 1.5.4. SUPPLY FAN: WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 5 DEG C, THE FAN WILL RUN CONTINUOUSLY AT 50% SPEED, OTHERWISE THE FAN IS OFF (5 DEG C DIFFERENTIAL). DURING UNOCCUPIED COOLING OR HEATING, THE FAN WILL RUN AT 100% SPEED. DURING UNOCCUPIED GAS DETECTION VENTILATION, THE FAN WILL RUN AT 100% SPEED.
- 1.5.5. RETURN FAN: THE RETURN FAN CONTROLS AS PER THE OCCUPIED MODE.
- 1.5.6. MIXED AIR DAMPERS: THE FRESH AIR DAMPER IS CLOSED AND THE RETURN DAMPER IS OPEN AT ALL POINTS IN TIME EXCEPT: 1) WHEN GAS IS DETECTED - DAMPERS GO TO 100% FRESH AIR, 2) THE UNIT IS RUNNING FOR TEMPERATURE CONTROL AND FREE COOLING IS PERMITTED AND REQUIRED.
- 1.5.7. GAS HEATING: CONTROLLED AS PER THE OCCUPIED MODE. HEATING IS OFF WHEN THE UNIT IS OFF.
- 1.6 URGENT ALARMS**
- 1.6.1. LOW TEMPERATURE LIMIT.
- 1.6.2. LOW SPACE TEMPERATURE.
- 1.6.3. CO LEVEL ABOVE 50 PPM.
- 1.6.4. NOX LEVEL ABOVE 3 PPM.
- 1.7 NON-URGENT ALARMS**
- 1.7.1. FAN IS COMMANDED ON AND STATUS IS NOT RECEIVED (2 MINUTE DELAY).
- 1.7.2. THE SUPPLY AIR TEMPERATURE DROPS BELOW 7 DEG C.
- 1.7.3. THE SUPPLY AIR TEMPERATURE RISES ABOVE 43 DEG C.
- 1.7.4. FAN IS COMMANDED OFF AND STATUS IS ON (10 MINUTE DELAY).
- 1.8 MAINTENANCE ALARMS**
- 1.8.1. FILTER ALARM.
- 1.8.2. MANUAL OVERRIDES ARE PLACED ON THE SYSTEM.
- 1.9 OPERATIONAL TRENDS (5-MINUTE INTERVALS, 7-DAYS)**
- 1.9.1. ALL INPUTS AND OUTPUTS.
- 1.9.2. SUPPLY AIR TEMPERATURE SETPOINT.
- 1.10 PERFORMANCE TRENDS (DAILY INTERVALS, 5-YEARS)**
- 1.10.1. SPACE TEMPERATURE INDEX: DAILY AVERAGE OF THE PERCENTAGE OF TIME THE SPACE TEMPERATURE IS WITHIN NORMAL LIMITS (BETWEEN THE COOLING SETPOINT (PLUS 1 DEG C) AND HEATING SETPOINT (MINUS 1 DEG C)).
- 1.10.2. AIRFLOW HEATING INTENSITY: DAILY AVERAGE OF THE AMOUNT OF TIME IN THE HEATING MODE.
- 1.10.3. DAILY AIRFLOW HOURS: THE TOTAL NUMBER OF HOURS THE UNIT OPERATED DURING THE DAY.



2 RTU-1 SCHEMATIC CONCEPT  
SCALE: 1 : 100

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Key  
Plan

NO.	ISSUED	DATE
12	ISSUED FOR CONSTRUCTION	2025-09-05
11	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
10	ISSUED FOR PROGRESS	2025-05-02
9	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
8	ISSUED FOR ADDENDUM 15	2024-12-04
7	ISSUED FOR ADDENDUM 14	2024-11-27
6	ISSUED FOR ADDENDUM 10	2024-10-15
5	ISSUED FOR ADDENDUM 8	2024-10-07
4	ISSUED FOR ADDENDUM 6	2024-09-30
3	ISSUED FOR ADDENDUM 3	2024-09-23
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

### Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: 1 : 100



Sheet  
Title:

## VENTILATION NEW WORK - LEVEL 1

Drawing  
No.  
M-351



NO.	ISSUED	DATE
6	ISSUED FOR CONSTRUCTION	2025-09-05
5	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
4	ISSUED FOR PROGRESS	2025-05-02
3	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
2	ISSUED FOR ADDENDUM 14	2024-11-27
1	ISSUED FOR ADDENDUM 3	2024-09-23

Issues

All measurements are to be checked and verified  
on site by the contractor before proceeding with  
work

Do not scale drawings

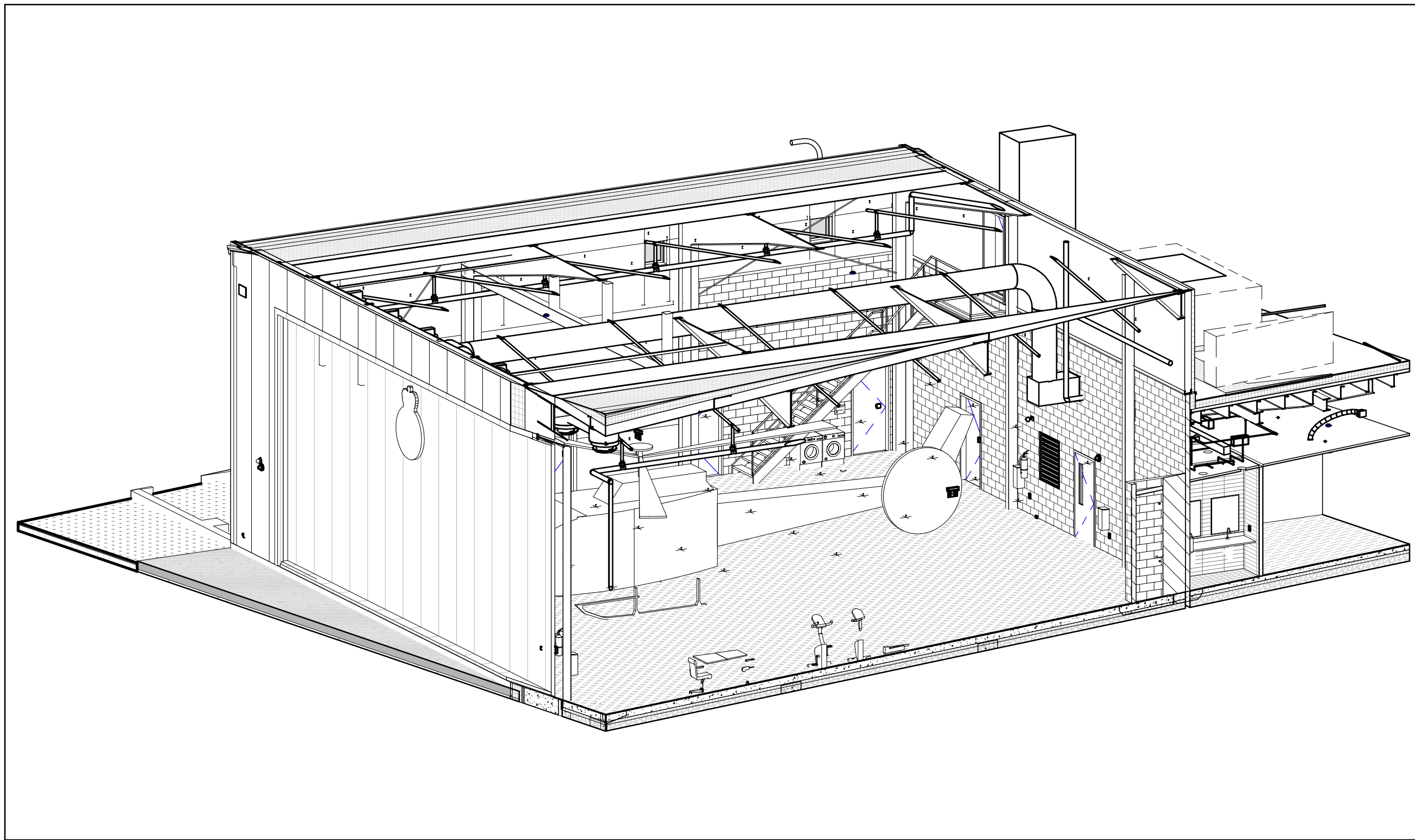
Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: 1 : 100



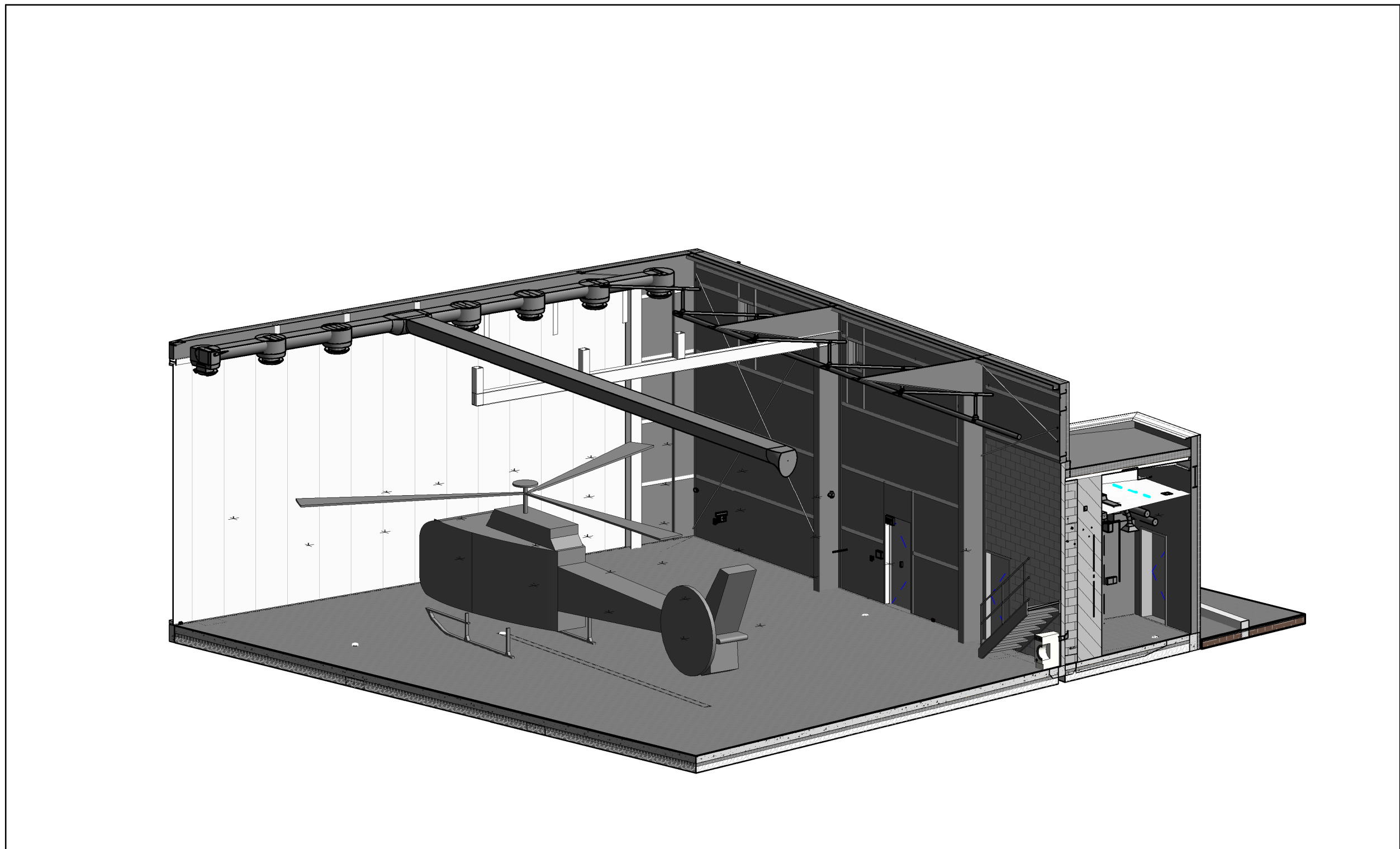
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VENTILATION NEW  
WORK - ISOMETRIC  
VIEWS

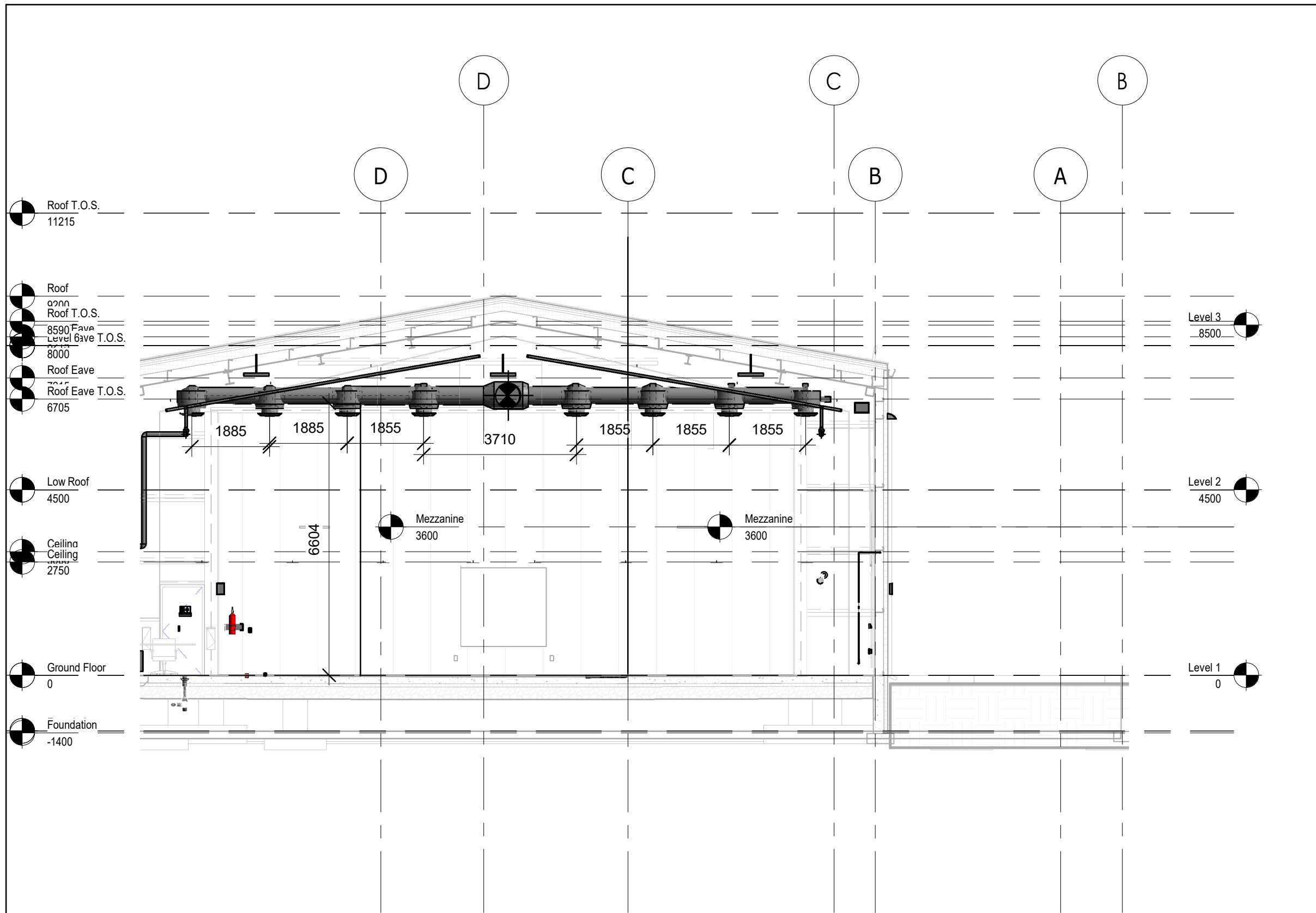
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No.  
M-352



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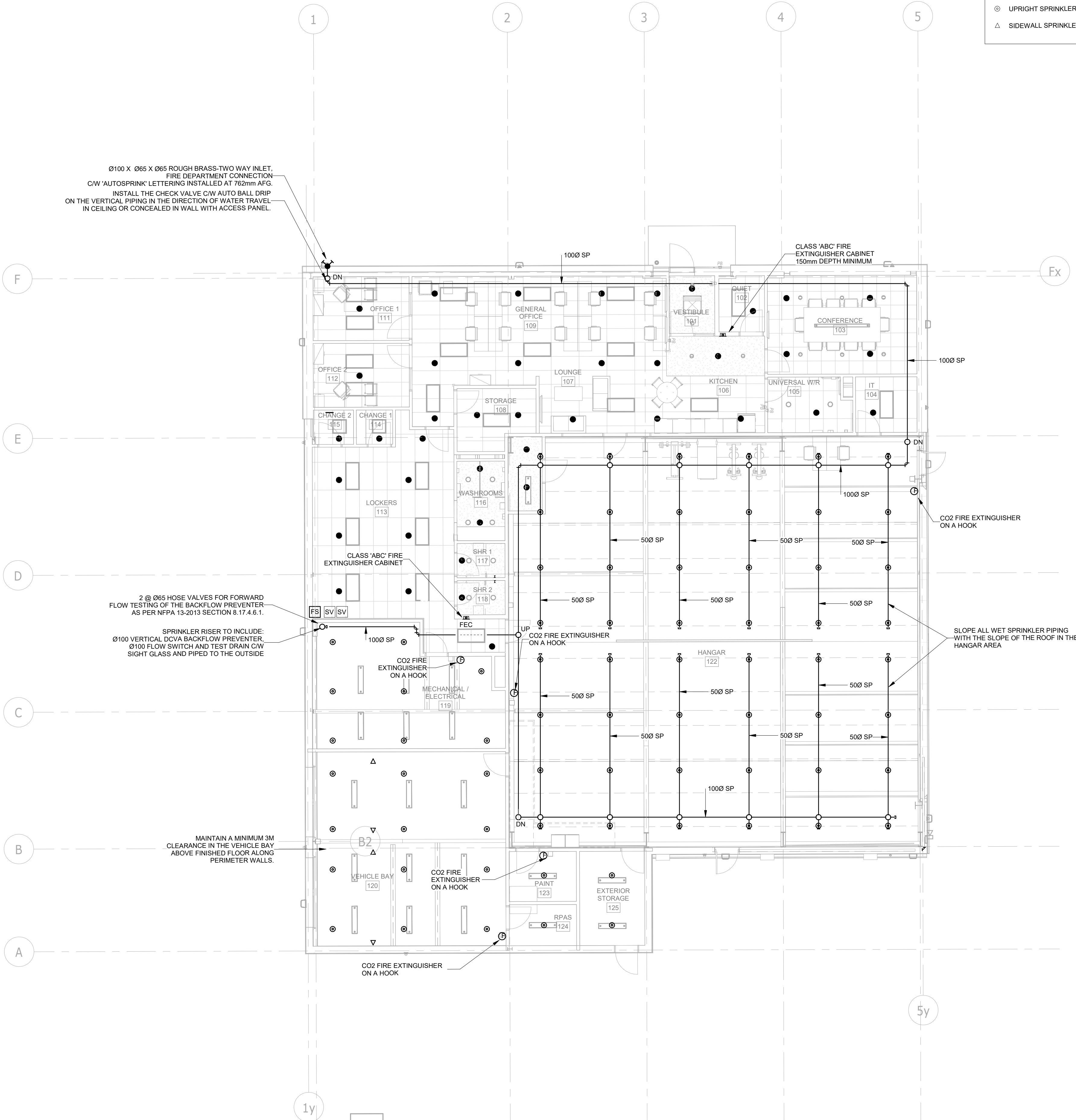
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SCALE:



3 HANGAR VENTILATION SECTION VIEW  
SCALE: 1 : 100



9/3/2025 4:37:08 PM  
Autodesk Docs\\2402 - YRP Helicopter Hangar\\TT-24-005-YRP-QCG ME Model\_P24.rvt



- LEGEND
- SEMI-RECESSED SPRINKLER HEAD (STANDARD WITH GLASS VIAL BULB)
  - UPRIGHT SPRINKLER HEAD
  - △ SIDEWALL SPRINKLER HEAD

#### GENERAL NOTES - FIRE PROTECTION

- SPRINKLER SYSTEM DESIGN AND INSTALLATION TO BE IN ACCORDANCE WITH NFPA 13-2013, THE ONTARIO BUILDING CODE-2012, THE ONTARIO FIRE CODE-2012, AND LOCAL AUTHORITY REQUIREMENTS.
- ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND GOVERNMENT REQUIREMENTS, IF APPLICABLE.
- CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
- ALL ELECTRICAL WIRING OF SPRINKLER DEVICES IS BY OTHERS. COORDINATE ALL ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR AND ENSURE PROPER COORDINATION.
- PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH NFPA 13, 6.2.9.
- COORDINATION IS TO TAKE PLACE BETWEEN THE SPRINKLER CONTRACTOR AND ALL OTHER TRADES.
- THE SPRINKLER CONTRACTOR IS TO FIELD SURVEY THE SITE, INCLUDING STRUCTURAL STEEL AND MECHANICAL/ELECTRICAL SERVICES PRIOR TO FABRICATION AND INSTALLATION. CONFLICTS OR DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE DESIGN CONSULTANTS.
- INSTALL HIGH TEMPERATURE SPRINKLERS AROUND ALL HEAT SOURCES IN ACCORDANCE WITH NFPA 13-2013.
- INSTALL GUARDS ON SPRINKLERS IN WAREHOUSE, MECHANICAL, ELECTRICAL AND STORAGE ROOMS.
- INSTALL LOW POINT DRAINS ON ALL TRAPPED SECTIONS OF PIPING IN ACCORDANCE WITH NFPA 13-2013.
- PROVIDE TAGS AND SIGNAGE AS PER NFPA 13-2013.
- SPRINKLER SYSTEMS ARE TO BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13-2013.
- CONTRACTOR SHALL VERIFY FLOWS AND PRESSURES VIA A FIRE HYDRANT FLOW TEST PERFORMED BY A LICENSED COMPANY, AT THE SITE PRIOR TO ANY DESIGN, HYDRAULIC CALCULATIONS AND INSTALLATION OF ANY FIRE PROTECTION SYSTEMS.
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE EXTINGUISHERS ON HOOKS OR IN CABINETS AS SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL INSTALL THE FOLLOWING TYPES OF FIRE EXTINGUISHERS OR EQUIVALENT:
  - FIRE EXTINGUISHER CABINETS—BOH AND OFFICE AREAS: NATIONAL FIRE EQUIPMENT LTD OR EQUIVALENT, MODEL 102F C/W A CLASS 'ABC' 5LB DRY CHEM FIRE EXTINGUISHER
  - FIRE EXTINGUISHER ON HOOK—VEHICLE BAY: NATIONAL FIRE EQUIPMENT LTD OR EQUIVALENT, MODEL SF-ABC680, 10LB CLASS 'ABC' DRY CHEM FIRE EXTINGUISHER
  - CLEAN AGENT FIRE EXTINGUISHER ON HOOK—IT ROOM: NATIONAL FIRE EQUIPMENT LTD OR EQUIVALENT, MODEL CA07, 7.5LB CLEAN GUARD FK-5-1-12 CLEAN AGENT FIRE EXTINGUISHER
  - CO2 FIRE EXTINGUISHER ON HOOK—MECHANICAL ROOMS, HANGER AREA, PAINT ROOM: NATIONAL FIRE EQUIPMENT LTD OR EQUIVALENT, STRIKE FIRST, MODELS SF-10CO2A (MECH. RM & PAINT RM) AND SF-20CO2A (HANGER BAY) CO2 FIRE EXTINGUISHER
- CONTRACTOR SHALL INSTALL SIDEWALL SPRINKLER HEADS FOR COVERAGE UNDER THE OVERHEAD DOOR FOR WHEN IT IS IN THE OPEN POSITION. CONTRACTOR SHALL VERIFY LOCATIONS OF THE SIDEWALL SPRINKLER HEADS ON SITE PRIOR TO INSTALLATION. SIDEWALL SPRINKLER HEADS SHALL BE INSTALLED PER THEIR LISTING AND NFPA 13. CONTRACTOR SHALL DROP DOWN OFF OF BRANCH LINE PIPING AND INSTALL THE SIDEWALL HEADS PER NFPA 13 FOR OBSTRUCTIONS AND PER THEIR LISTING FOR DISTANCES FROM CEILINGS.
- CONTRACTOR SHALL INSTALL SIDEWALL SPRINKLER HEADS FOR COVERAGE UNDER THE OVERHEAD DOOR FOR WHEN IT IS IN THE OPEN POSITION. CONTRACTOR SHALL VERIFY LOCATIONS OF THE SIDEWALL SPRINKLER HEADS ON SITE PRIOR TO INSTALLATION. SIDEWALL SPRINKLER HEADS SHALL BE INSTALLED PER THEIR LISTING AND NFPA 13. CONTRACTOR SHALL DROP DOWN OFF OF BRANCH LINE PIPING AND INSTALL THE SIDEWALL HEADS PER NFPA 13 FOR OBSTRUCTIONS AND PER THEIR LISTING FOR DISTANCES FROM CEILINGS.

# PARKIN

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TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

## YORK REGIONAL POLICE HELICOPTER HANGAR

88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

Key  
Plan

NO.	ISSUED	DATE
10	ISSUED FOR CONSTRUCTION	2025-09-05
9	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
8	ISSUED FOR PROGRESS	2025-05-02
7	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
6	ISSUED FOR ADDENDUM 14	2024-11-27
5	ISSUED FOR ADDENDUM 13	2024-10-30
4	ISSUED FOR ADDENDUM 6	2024-09-30
3	ISSUED FOR ADDENDUM 3	2024-09-23
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

#### Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated

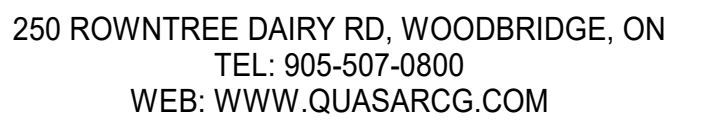


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Title:  
**FIRE PROTECTION NEW  
WORK - LEVEL 1**

Drawing  
No.  
**M-551**

#### FIRE PROTECTION NEW WORK - LEVEL 1

SCALE: 1 : 100



88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

[illegible]

6	ISSUED FOR CONSTRUCTION	2025-09-05
5	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
4	ISSUED FOR PROGRESS	2025-05-02
3	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31
NO.	ISSUED	DATE

All measurements are to be checked and verified on site by the contractor before proceeding with work

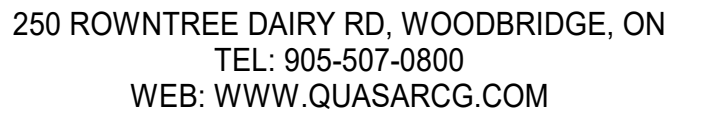
Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: 1 : 1



Drawing  
No.  
M-701

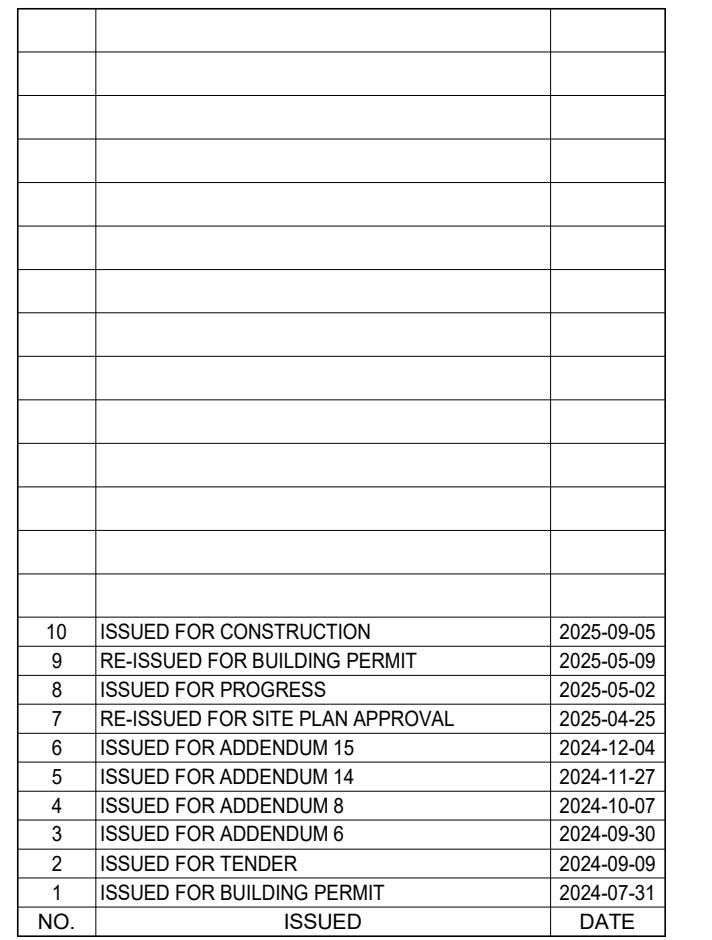




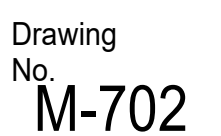


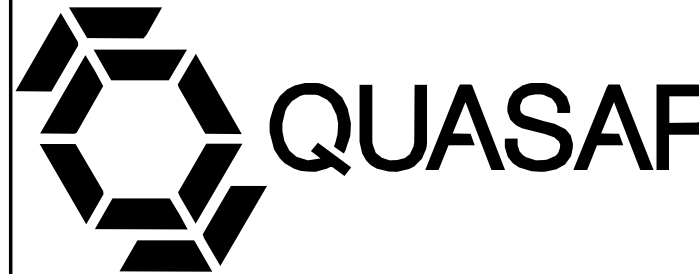
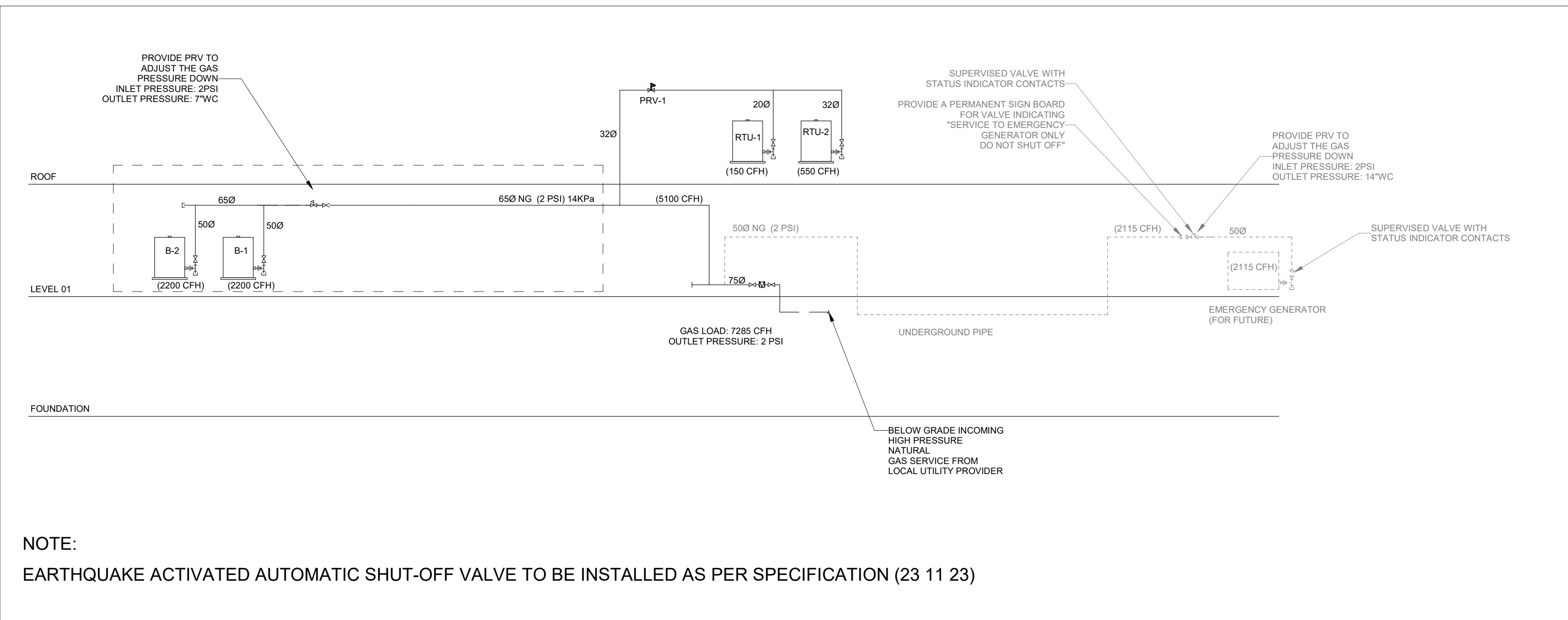
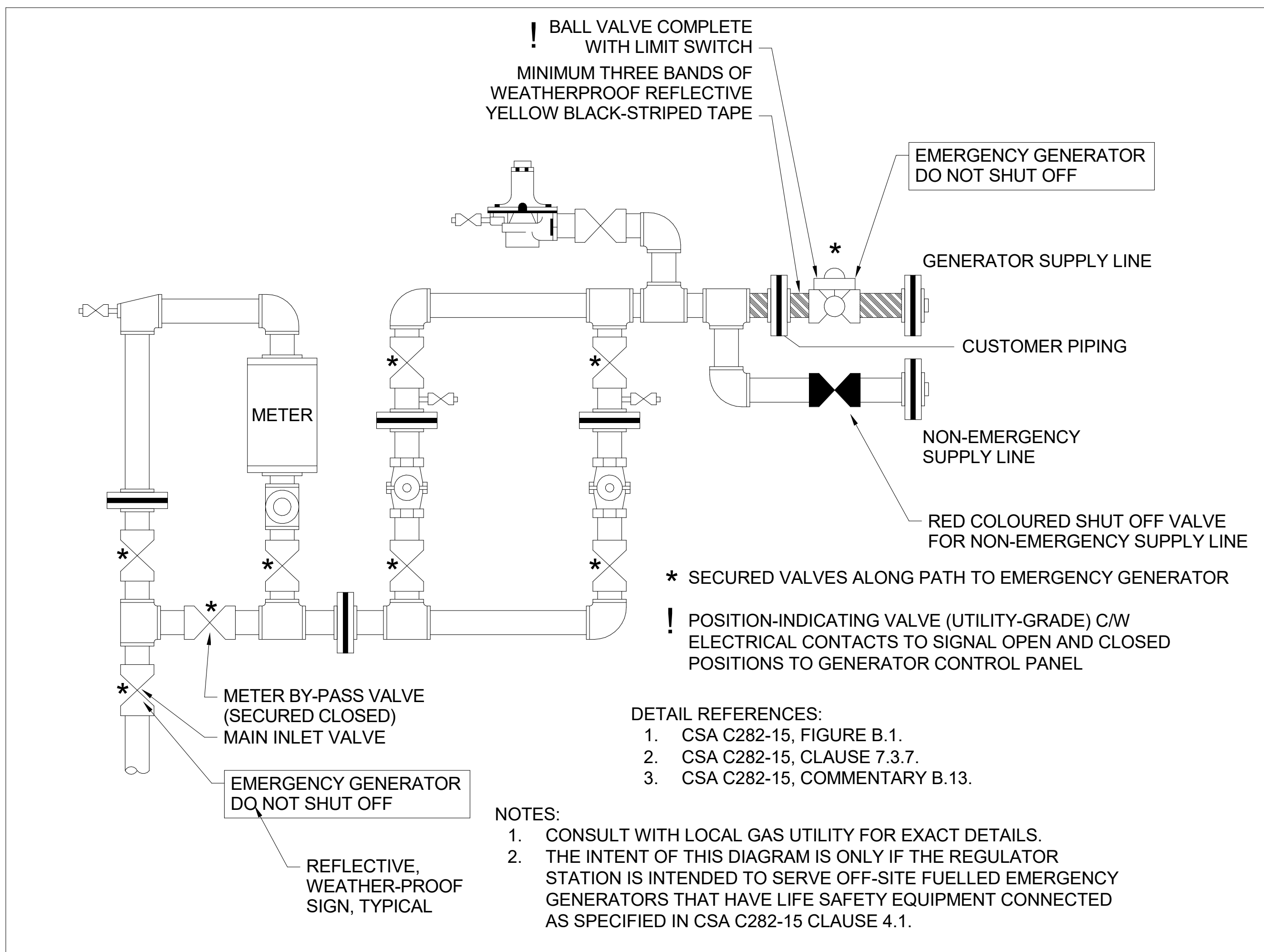
88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

1. ENABLE PUMP P-5 OR P-5R, P-1 OR P-1R SHALL BE ENABLED (BAS SHALL CYCLE PUMPS AFTER EVERY 30 HOURS OF OPERATION TO ENSURE EVEN WEAR)
2. ASHP SHALL BE ENABLED
3. WHEN SPACE TEMPERATURE REACHES 20C (68F) (ADJUSTABLE):
  - A) PUMPS P-5 AND P-5R SHALL BE DISABLED.
  - B) AIR SOURCE BOILER (ASHP-1) SHALL BE DISABLED
  - C) PUMPS P-1 AND P-1R SHALL BE DISABLED
4. WHEN OUTDOOR AIR TEMPERATURE IS BELOW -10 DEG C (ADJUSTABLE):
  - A) THE THREE WAY VALVE CV-3 WILL DIRECT THE FLOW BETWEEN THE BOILERS TO HEAT EXCHANGER VIA ASSOCIATED BOILER'S PUMP AND P-1 & P-1R
  - B) THE PORT AT CV-1 (ASHP SIDE) WILL BE CLOSED AND LET THE FLOW FROM BOILER(S) DIRECT TO PUMPS P-1 & P-1R.
  - C) THE BOILERS AND THE ASSOCIATED PUMPS WILL BE ACTIVATED TO ALLOW THE DESIGN REQUIREMENTS TO BE REACHED.
  - D) ASHP IS DISABLED



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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: N.T.S.



250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARCG.COMYORK REGIONAL POLICE  
HELICOPTER HANGAR88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)Key  
Plan1 GAS SCHEMATIC  
SCALE: N.T.S.2 UTILITY-FED EMERGENCY GENERATOR GAS REGULATOR STATION(FOR FUTURE)  
SCALE: 1 : 1

NO.	ISSUED	DATE
9	ISSUED FOR CONSTRUCTION	2025-09-05
8	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
7	ISSUED FOR PROGRESS	2025-05-02
6	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
5	ISSUED FOR ADDENDUM 14	2024-11-27
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2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

## Issues

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Do not scale drawings

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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicatedSheet  
Title:

## GAS SCHEMATIC

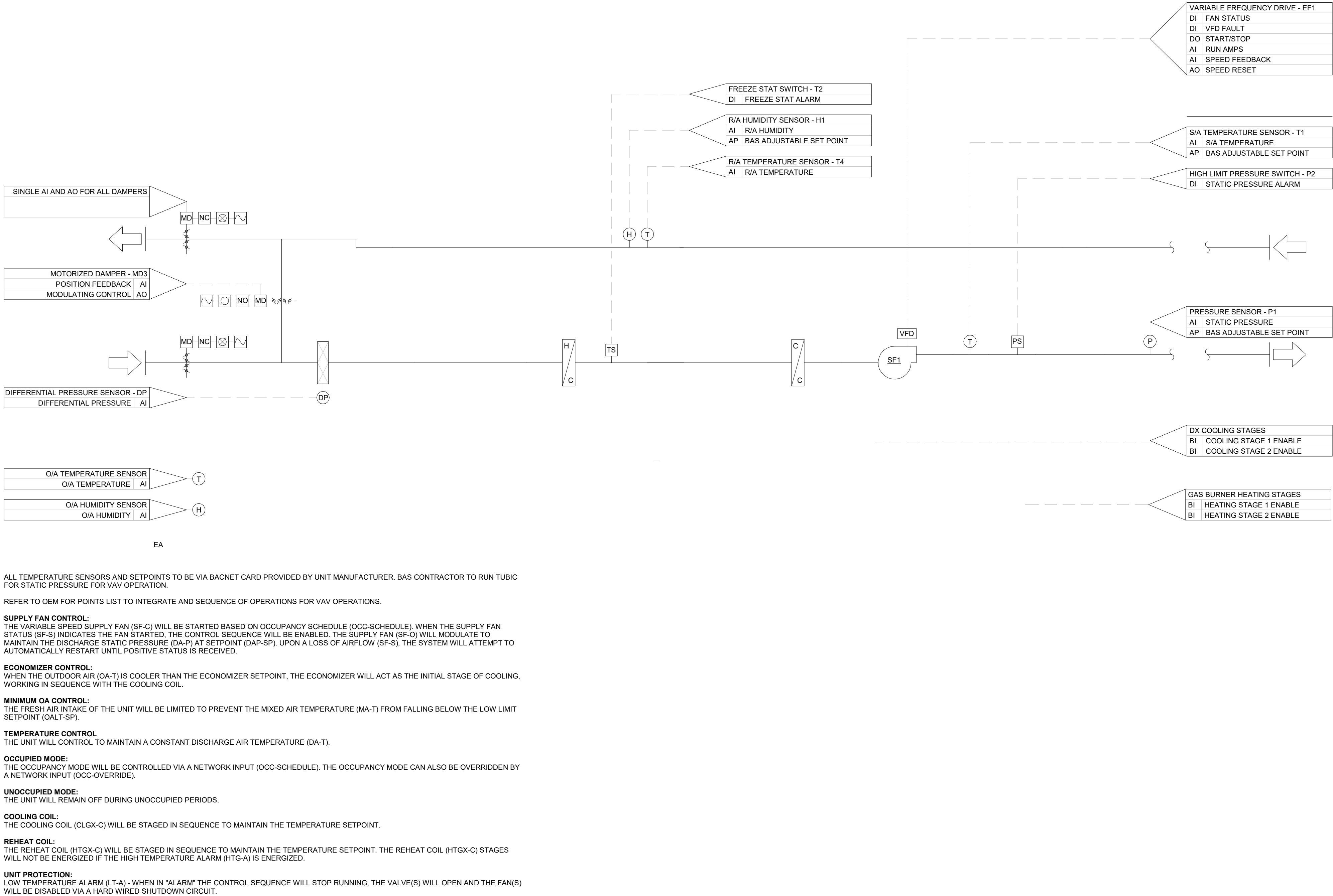
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No.  
M-704



2

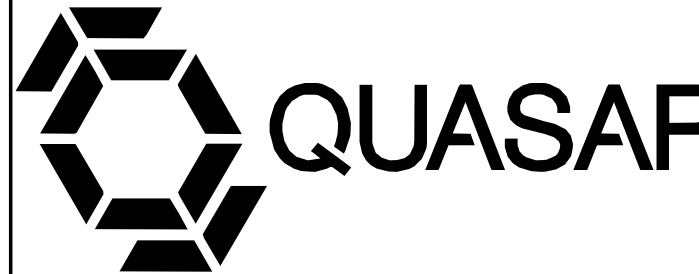
## VARIABLE AIR VOLUME ROOF TOP UNIT (RTU-1)

SCALE:N.T.S.



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## YORK REGIONAL POLICE HELICOPTER HANGAR

88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

Key  
Plan

NO.	ISSUED	DATE
7	ISSUED FOR CONSTRUCTION	2025-09-05
6	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
5	ISSUED FOR PROGRESS	2025-05-02
4	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
3	ISSUED FOR ADDENDUM 14	2024-11-27
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

### Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

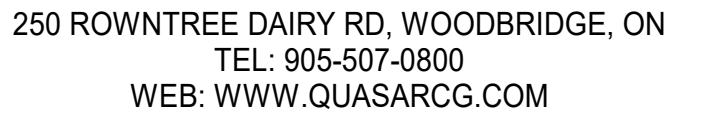
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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: N.T.S.



Sheet  
Title:

## MECHANICAL CONTROL SEQUENCES I

Drawing  
No.  
M-750



88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

1. IN-FLOOR HEATING CONTROL:  
THE IN-FLOOR HEATING SYSTEM SHALL BE EQUIPPED WITH ITS OWN CONTROLLER. THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE IN-SLAB HEATING MIXING VALVE ACCORDINGLY TO MAINTAIN THE SPACE HEATING SETPOINT. THE CONTROLLER SHALL PROVIDE DRY CONTACTS TO ALLOW BAS TO TIE IN AND MONITOR IN-FLOOR HEATING STATUS.

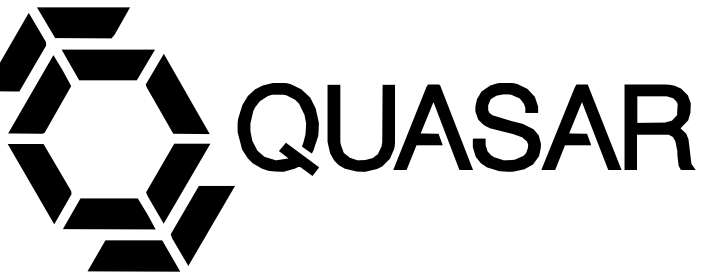
SCALE: 1 : 1

1. ONCE OUTDOOR TEMPERATURE DROPS BELOW 0°C, THE WARM WEATHER CUT OFF (WWCO) IS CANCELLED AND THE CONTROL SHALL BE ACTIVE.
2. THE CONTROL SHALL ENABLE THE SNOW MELT PUMP TO OPERATE MODULATING THE 4-WAY VALVE TO INJECT HEAT INTO THE SLAB TO MAINTAIN IDLING TEMPERATURE OF 0°C (ADJUSTABLE).
3. IF SUPPLY WATER TEMPERATURE IS NOT AT SET POINT, THE CONTROL SHALL INITIATE THE LEAD BOILER PUMP TO START AND FIRE THE BOILER.
4. THE BOILER AND 4-WAY VALVE SHALL INJECT HEAT INTO THE SLAB UNTIL THE IDLE TEMPERATURE IS SATISFIED.
5. ONCE THE SLAB IS UP TO TEMPERATURE, THE OILER SHALL SHUT DOWN. THE BOILER PUMP WILL OPERATE FOR 3 MINUTES THEN SHUT DOWN.
6. THE FOUR WAY VALVE WILL MODULATE TO MAINTAIN SET POINT SUPPLY WATER TEMPERATURE AS LONG AS THE SNOW MELT SYSTEM IS ACTIVE.
7. IF SNOW IS DETECTED ON ANY OF THE SNOW/ICE SENSORS, THE CONTROL SHALL INITIATE A SNOW MELT DEMAND. THE SLAB SURFACE SET POINT SHALL BE INCREASED TO 4°C TO MELT SNOW.
8. THE FOUR WAY VALVE SHALL MODULATE OPEN TO INJECT HEAT INTO THE SLAB. ONCE THE SUPPLY WATER TEMPERATURE DROPS BELOW SETPOINT, THE LEAD BOILER WILL FIRE AND MODULATE TO MEET DEMAND. IF AFTER 5 MINUTES SET POINT IS NOT ACHIEVED, THE STANDBY BOILER (3) SHALL STAY ON UNTIL THE 3RD BOILER IS TURNED ON. ONCE ALL BOILERS ARE RUNNING, THEY WILL MODULATE IN UNISON, AND INCREASE MODULATION TO MEET DEMAND. ONCE DEMAND IS REACHED AND BOILERS MODULATE DOWN BELOW 50%, THE LAG BOILER SHALL RUN FOR 15 MINUTES, THEN STAGE OFF.
9. WHEN SNOW/ICE SENSOR DETECTS NO MOISTURE ON ITS SURFACE IT WILL CONTINUE MELTING DEMAND FOR 4 HOURS TO ENSURE SLAB IS CLEAR CONTROL WILL DROP SLAB BACK TO IDLING MODE AND MAINTAIN SLAB AT 0°C.
10. WHEN OUTDOOR TEMPERATURE DROPS BELOW -15°C, CONTROLS WILL INITIATE COLD WEATHER CUT OFF (CWCO).
11. CONTROL SYSTEMS WILL DUTY CYCLE PRIMARY SNOW MELT PUMPS AFTER EVERY 30 HOURS OF OPERATION TO ENSURE EVEN WEAR. PRIMARY PUMPS WILL BE EXERCISED ONCE PER WEEK DURING OFF CYCLES FOR 5 MINUTES.
12. CONTROL SYSTEM WILL DUTY CYCLE BOILERS AND BOILER PUMPS AFTER EVERY 30 HOURS OF OPERATION TO ENSURE EVEN WEAR.
13. CONTROL SYSTEM SHALL BE CAPABLE TO TRANSMIT INFORMATION REGARDING MELTING MODE, WWCO, CWCO, FAULT ON SENSOR, PUMP OPERATION, BOILER OPERATION AND FAULT. CONTROL SYSTEM TO OPEN PROTOCOL SYSTEM VIA MODEM.

Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: 1 : 1



Drawing  
No.  
**M-751**



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# YORK REGIONAL POLICE HELICOPTER HANGAR

88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

## Key Plan

[illegible]

## Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

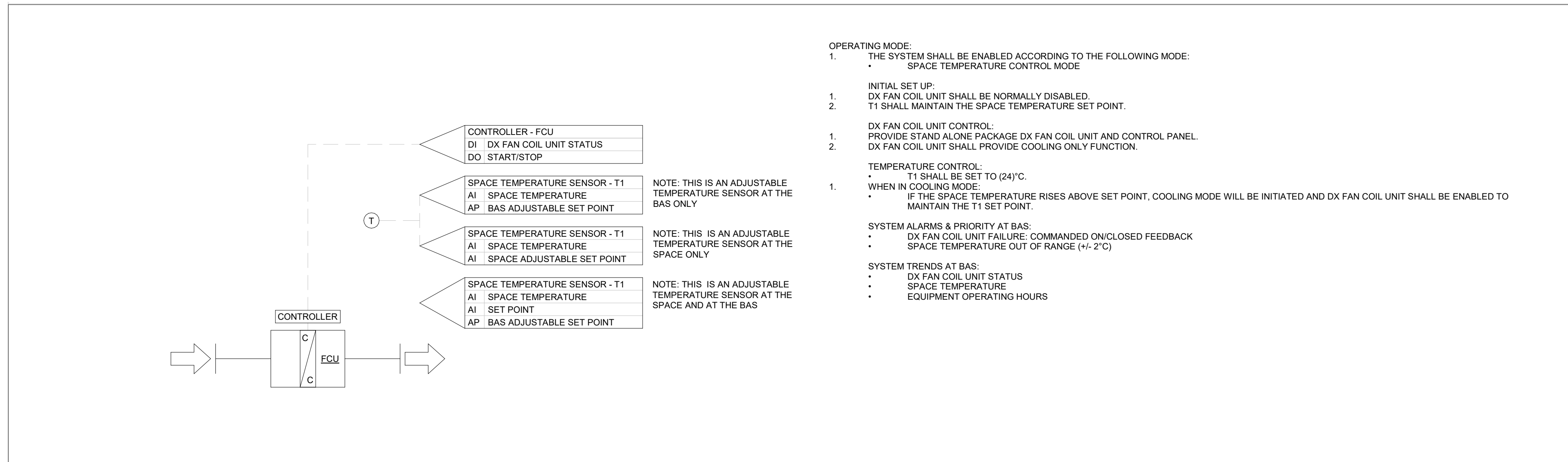
Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: N.T.S.



Sheet  
Title:

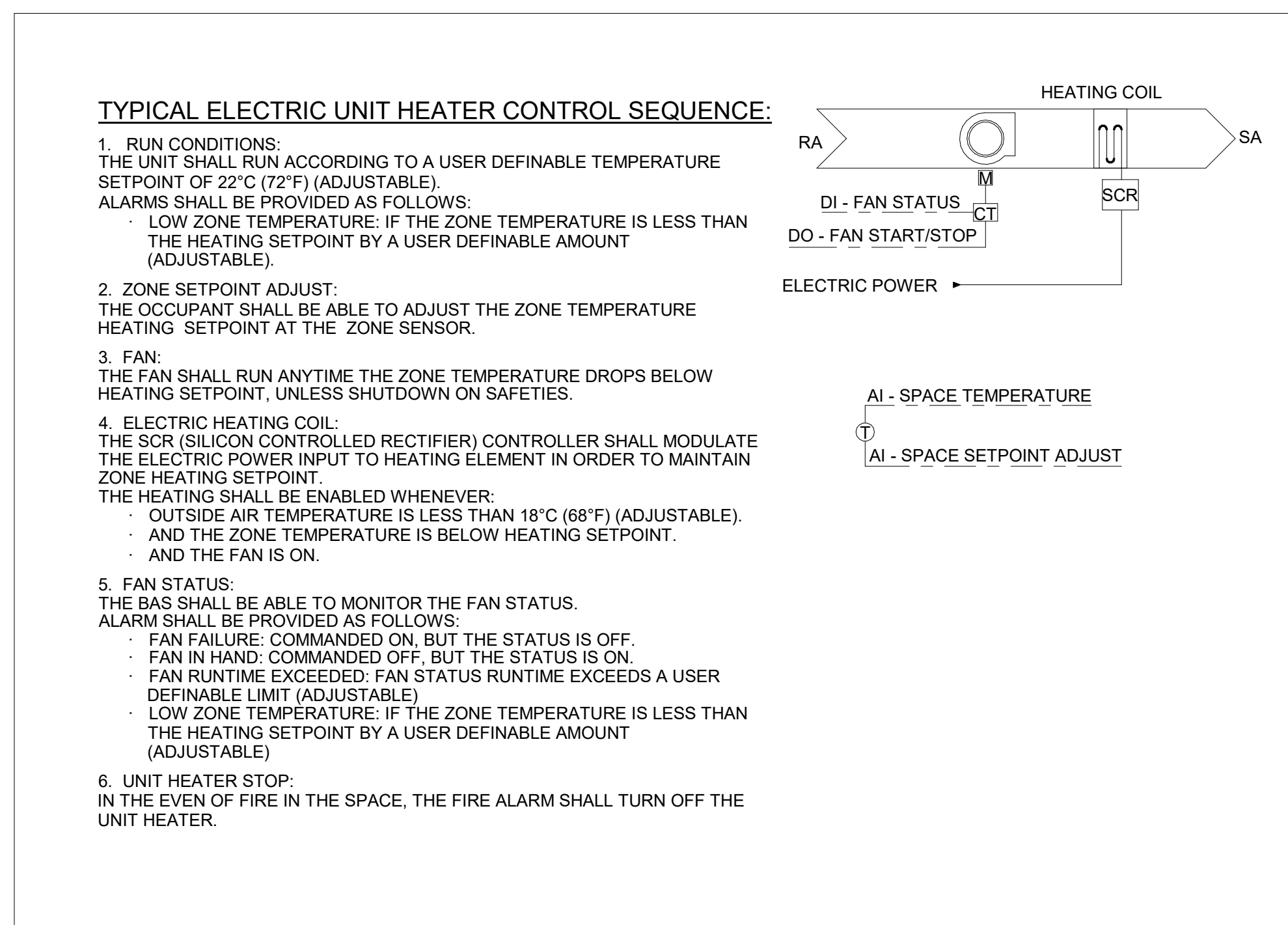
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No. **M-752**



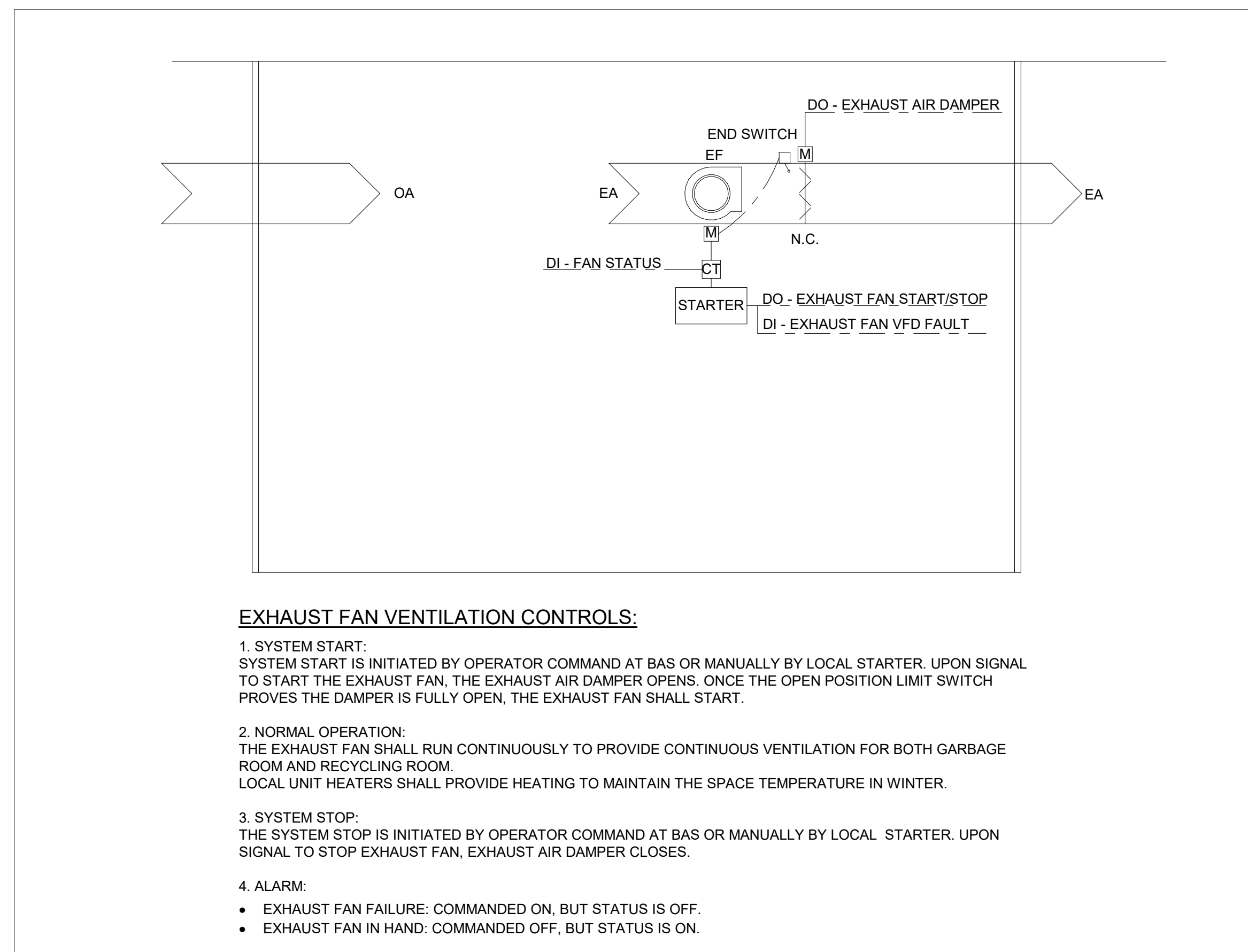
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SCALE:N.T.S.



## TYPICAL ELECTRIC UNIT HEATER CONTROLS

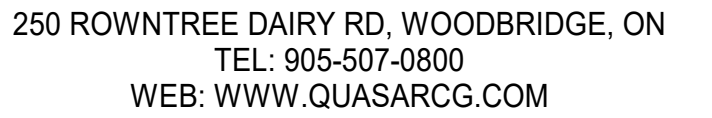
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## EXHAUST FAN VENT. CONTROLS

SCALE: 1 : 1





88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

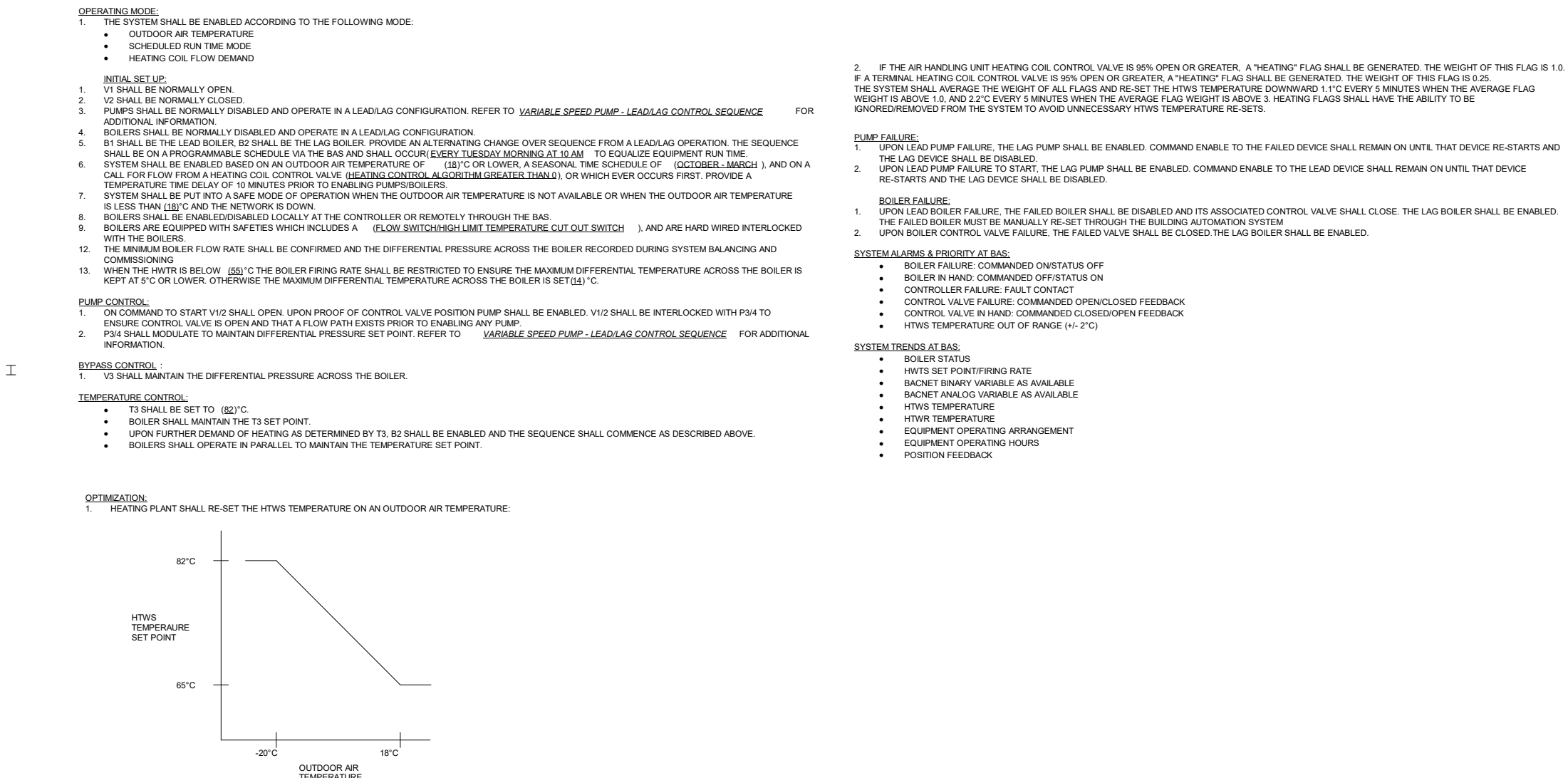
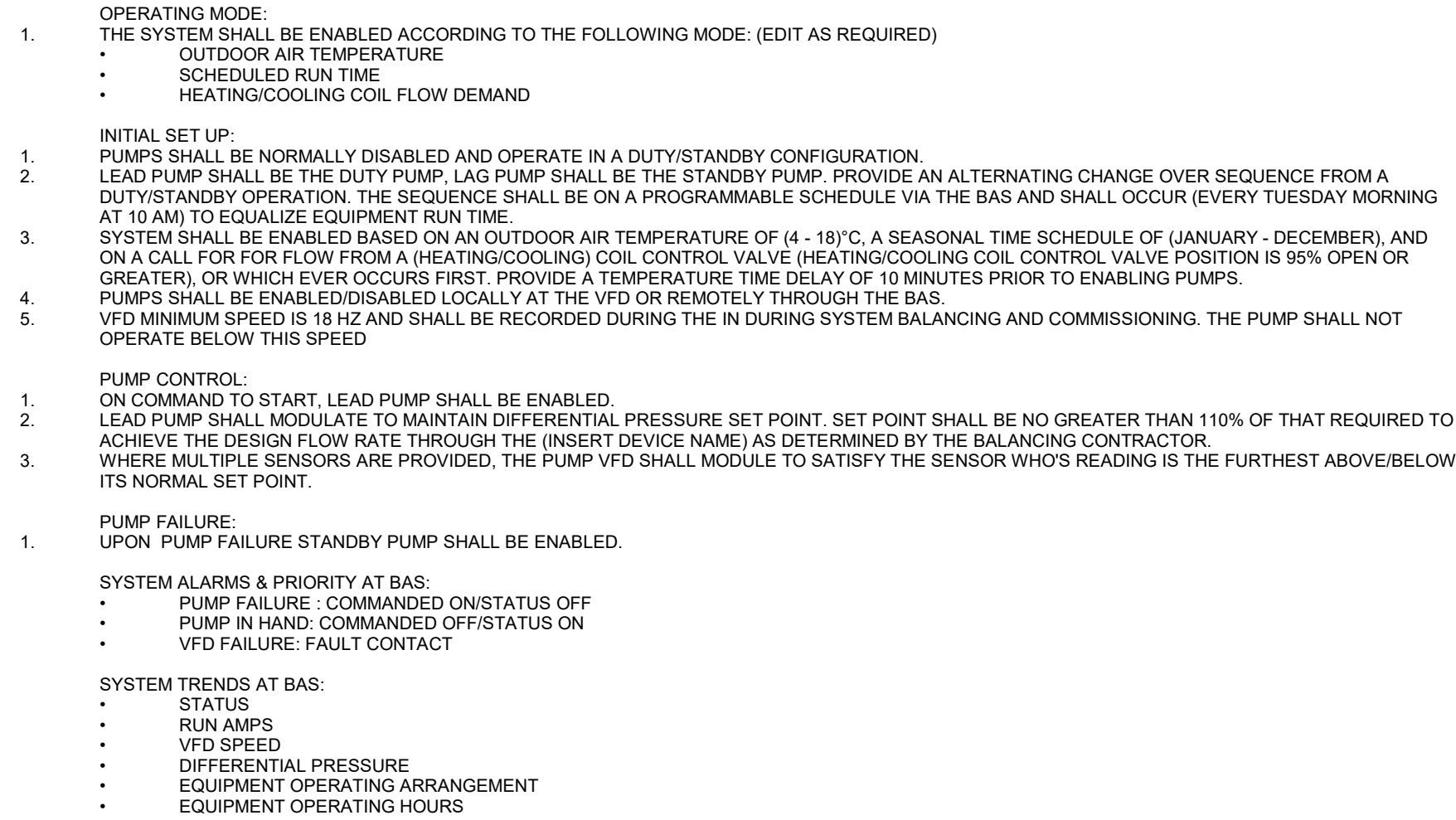
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Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: N.T.S.



Drawing  
No.  
**M-753**

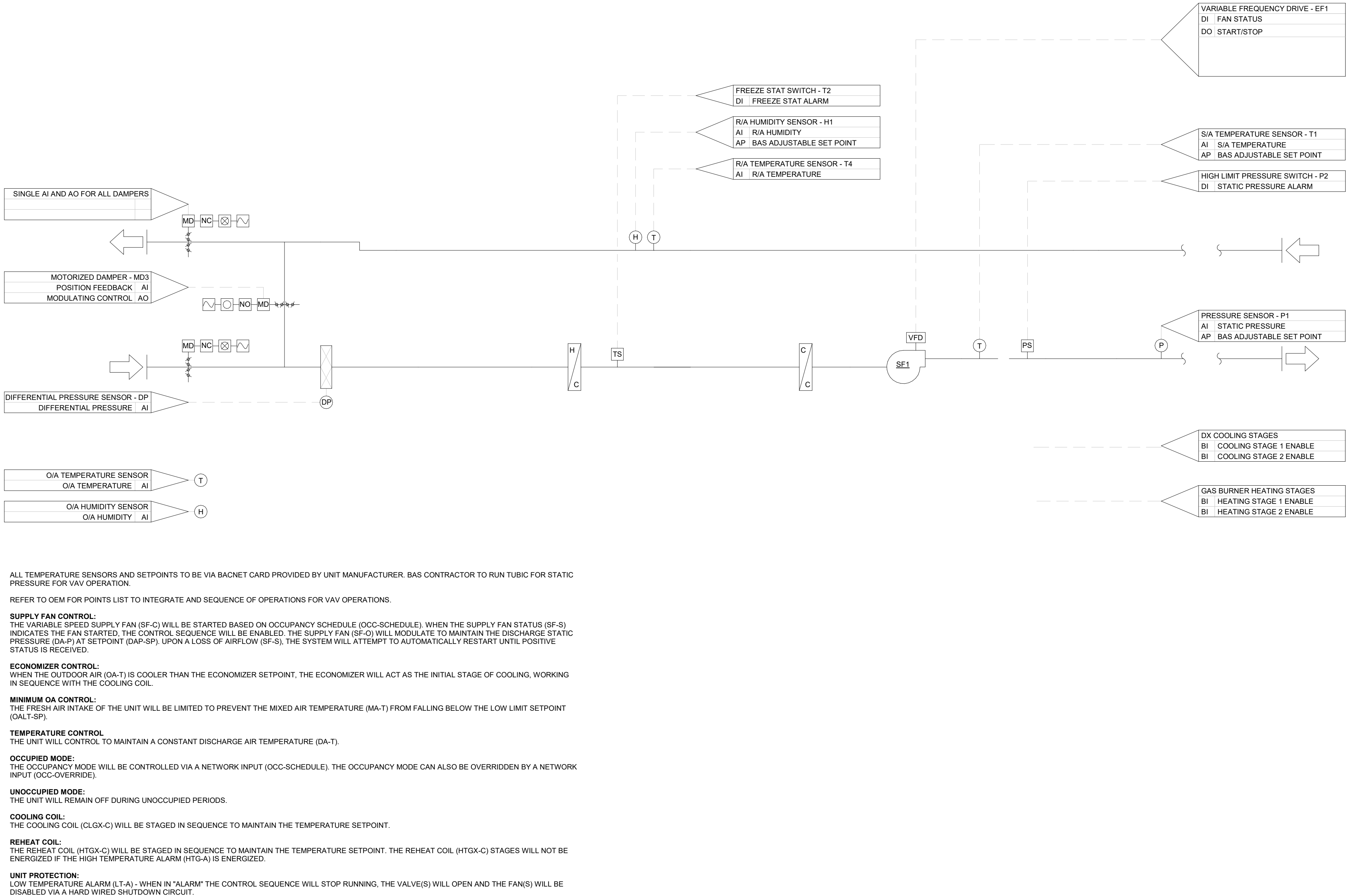


1

1

## CONSTANT AIR VOLUME ROOF TOP UNIT (RTU-2)

SCALE:N.T.S.



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## YORK REGIONAL POLICE HELICOPTER HANGAR

88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

Key  
Plan

NO.	ISSUED	DATE
6	ISSUED FOR CONSTRUCTION	2025-09-05
5	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
4	ISSUED FOR PROGRESS	2025-05-02
3	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
2	ISSUED FOR ADDENDUM 6	2024-09-30
1	ISSUED FOR ADDENDUM 3	2024-09-23

### Issues

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Do not scale drawings

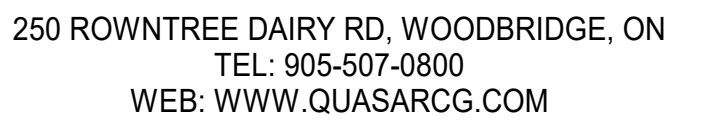
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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: N.T.S.



Sheet  
Title:

## MECHANICAL CONTROL SEQUENCES V

Drawing  
No.  
M-754



88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

[illegible]

## Issues

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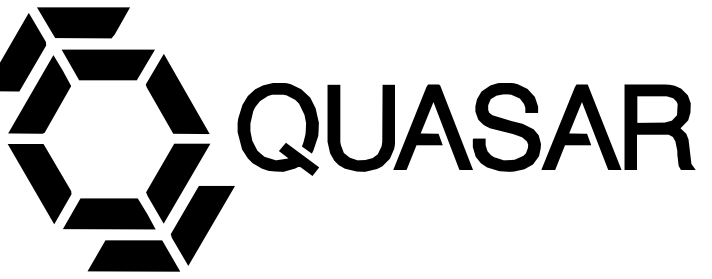
Do not scale drawings

Drawn by: Author  
Checked by: Checker  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: N.T.S.



Drawing  
No. **M-755**



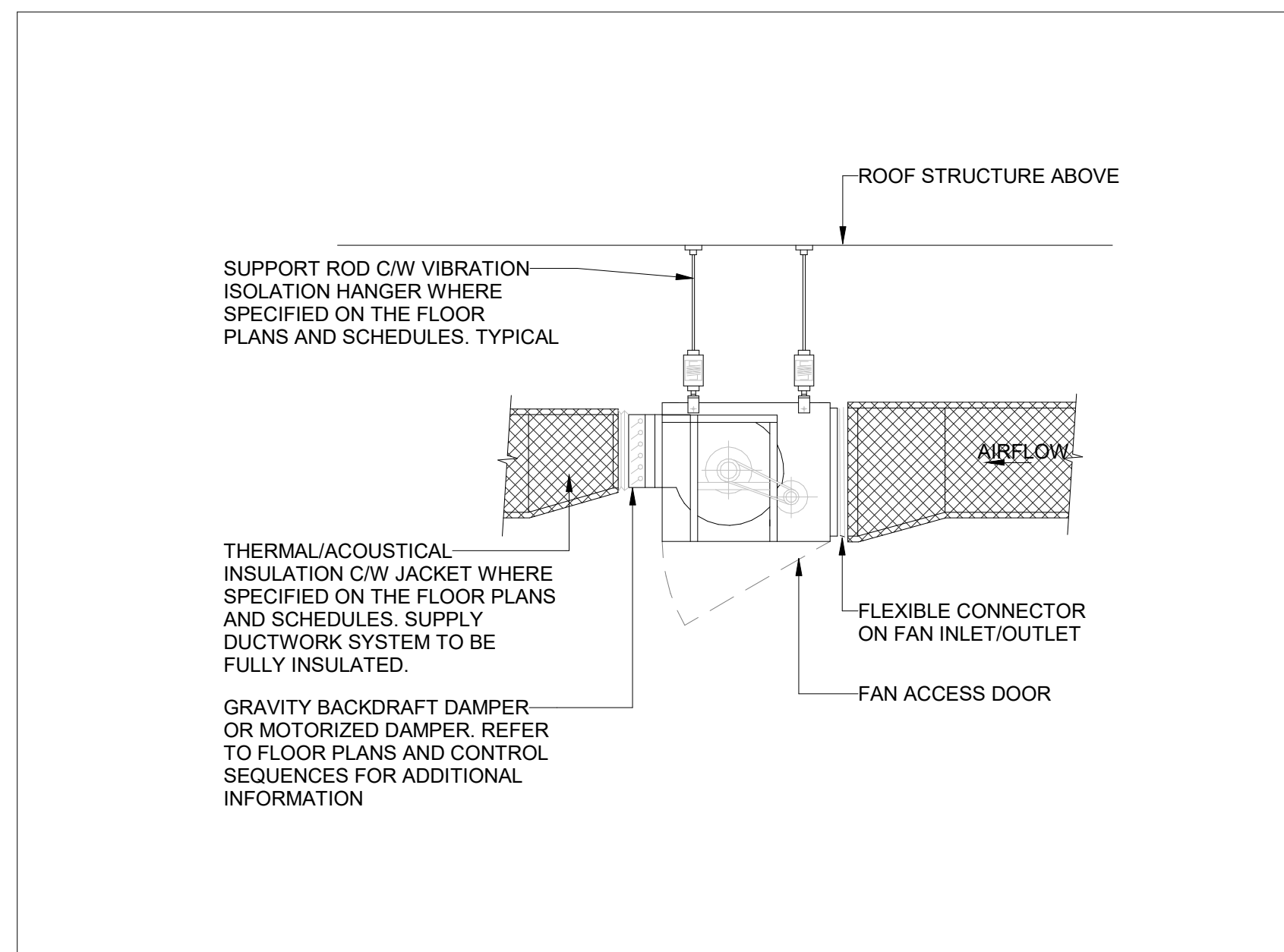


250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

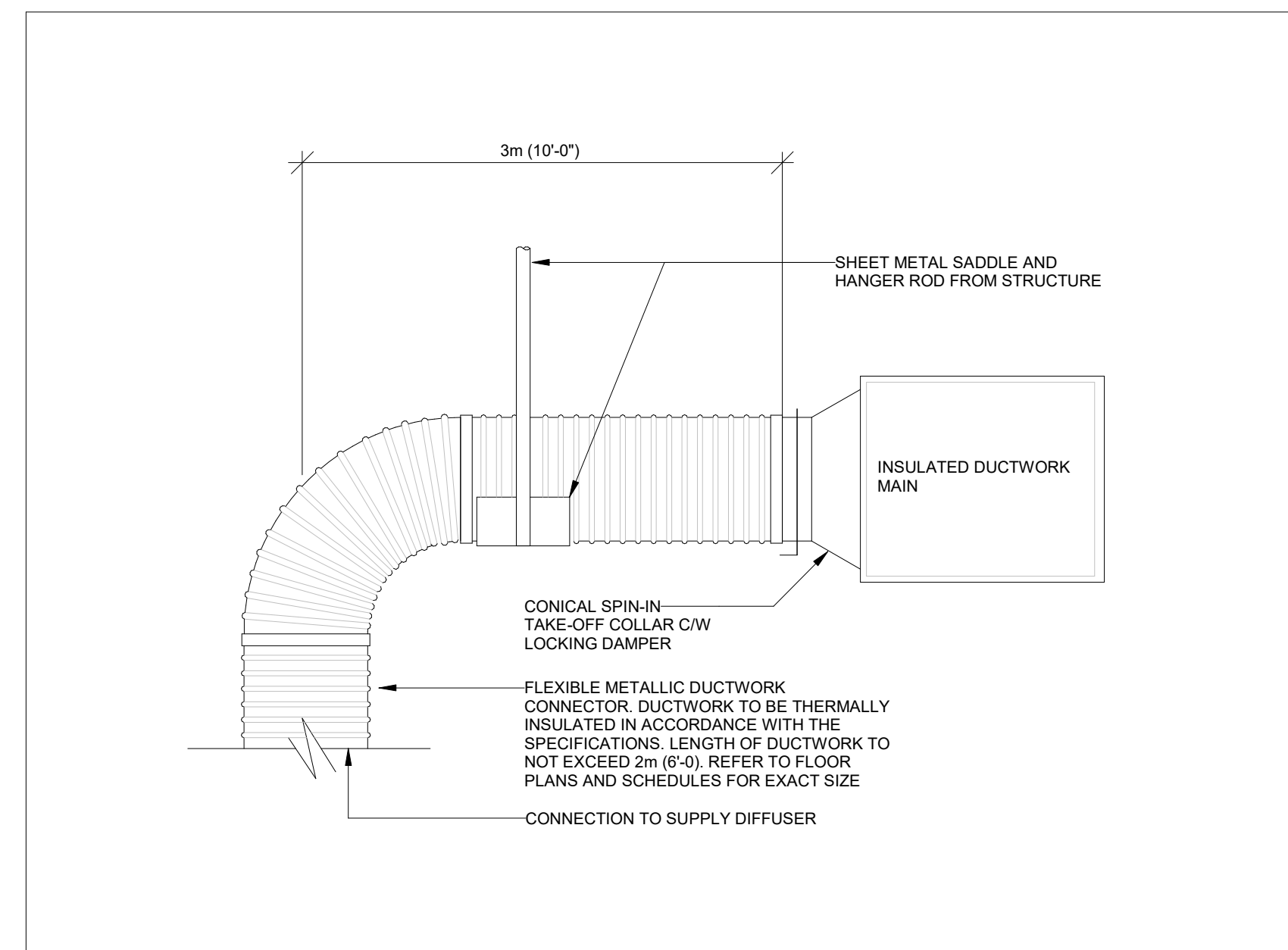
# YORK REGIONAL POLICE HELICOPTER HANGAR

88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

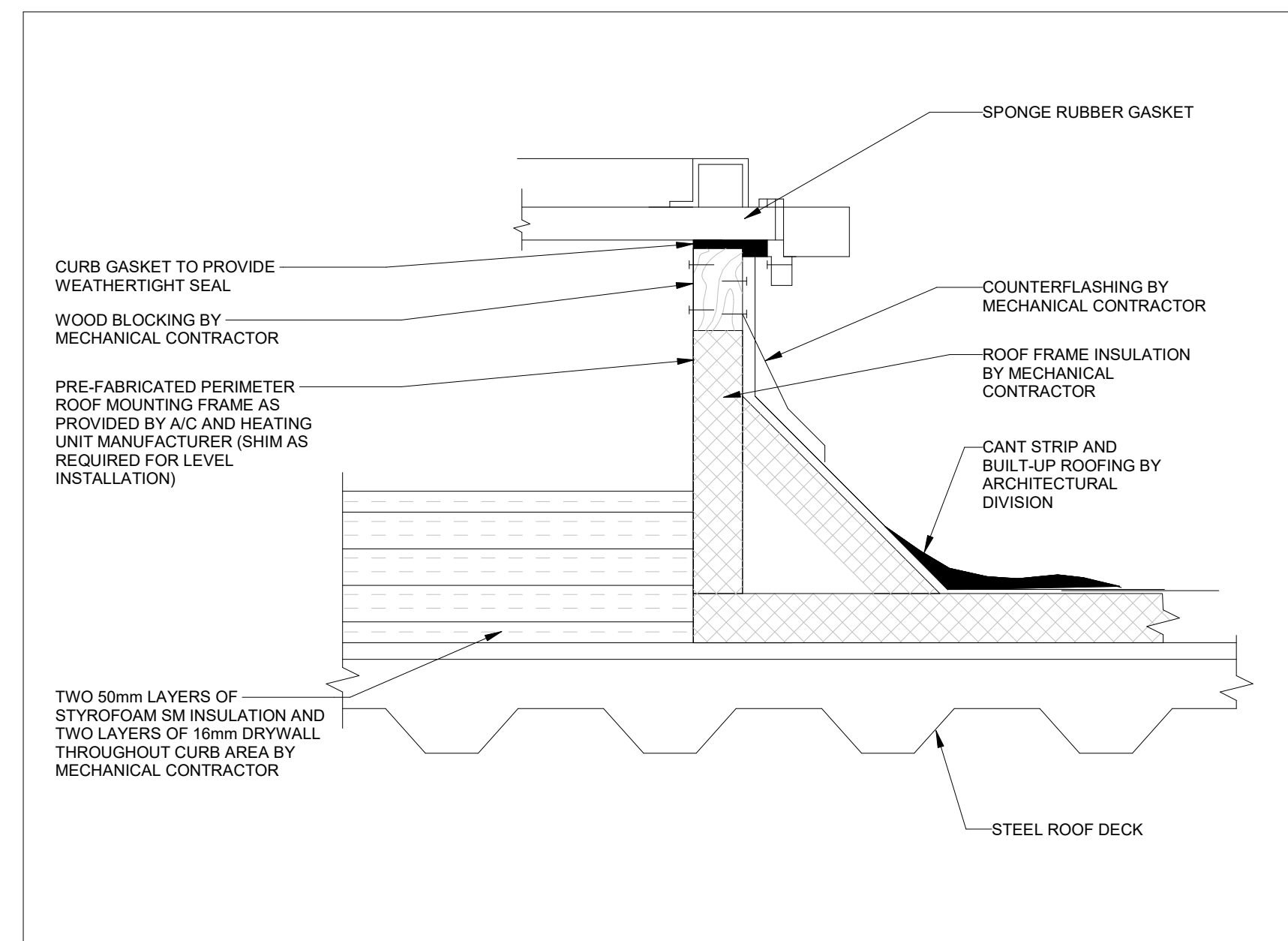
## Key Plan



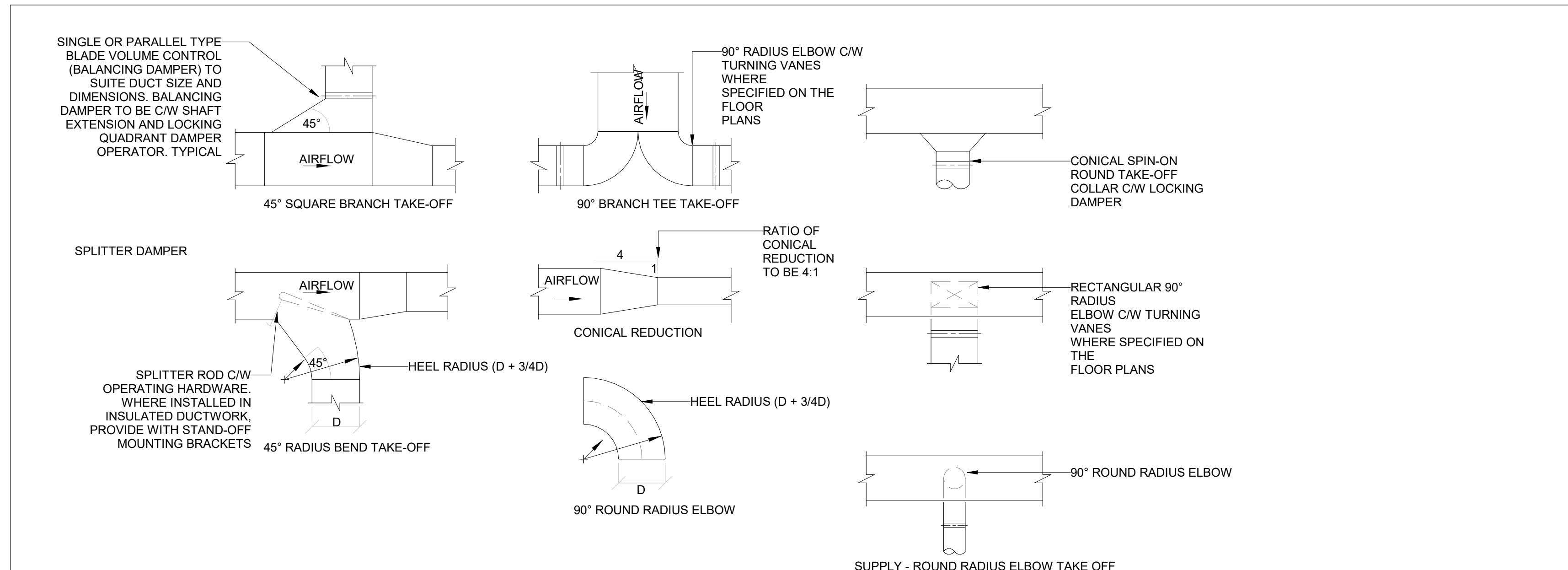
8 CENTRIFUGAL INLINE FAN  
SCALE:N.T.S.



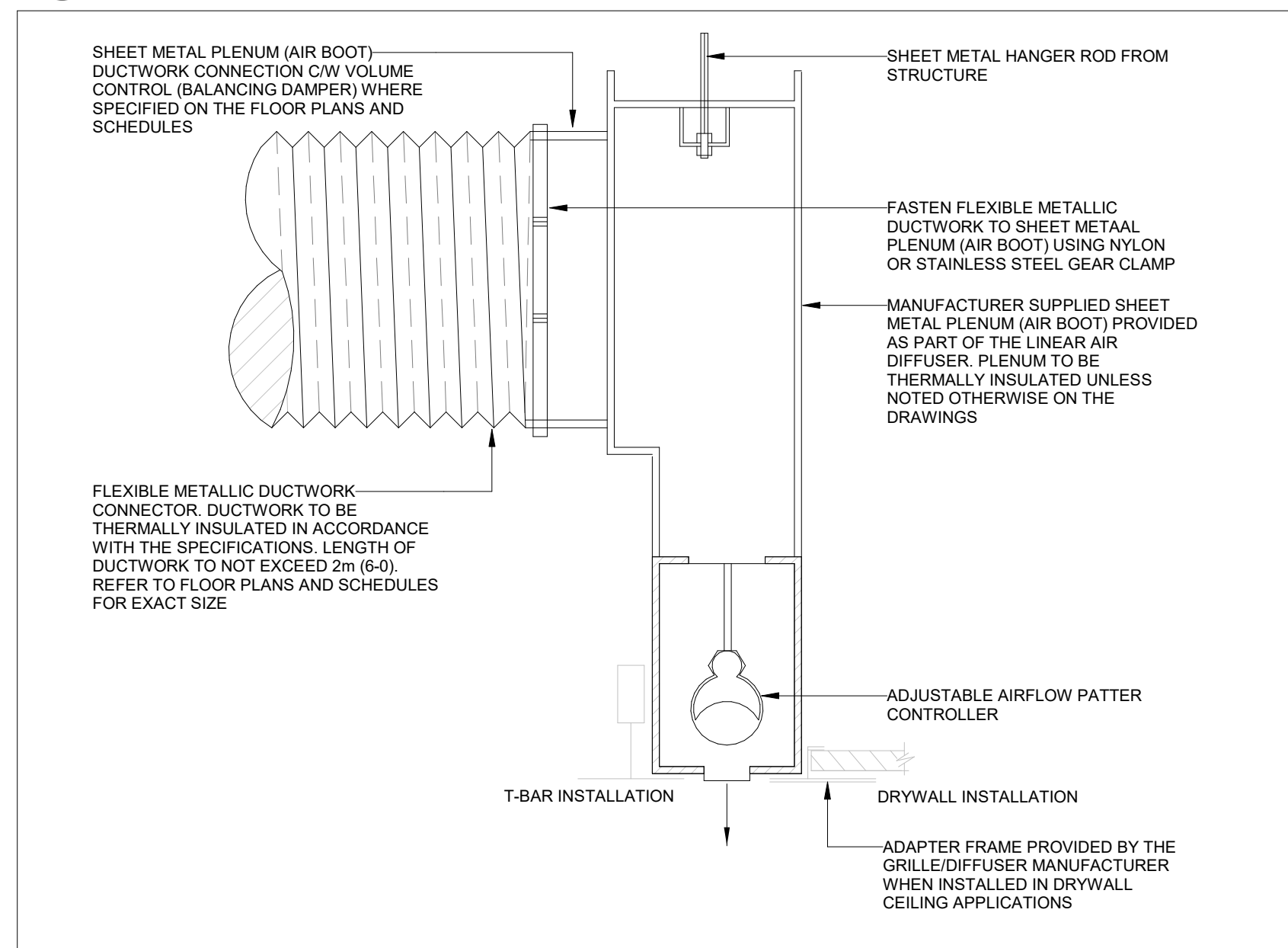
6 FLEXIBLE METALLIC DUCTWORK  
SCALE:N.T.S.



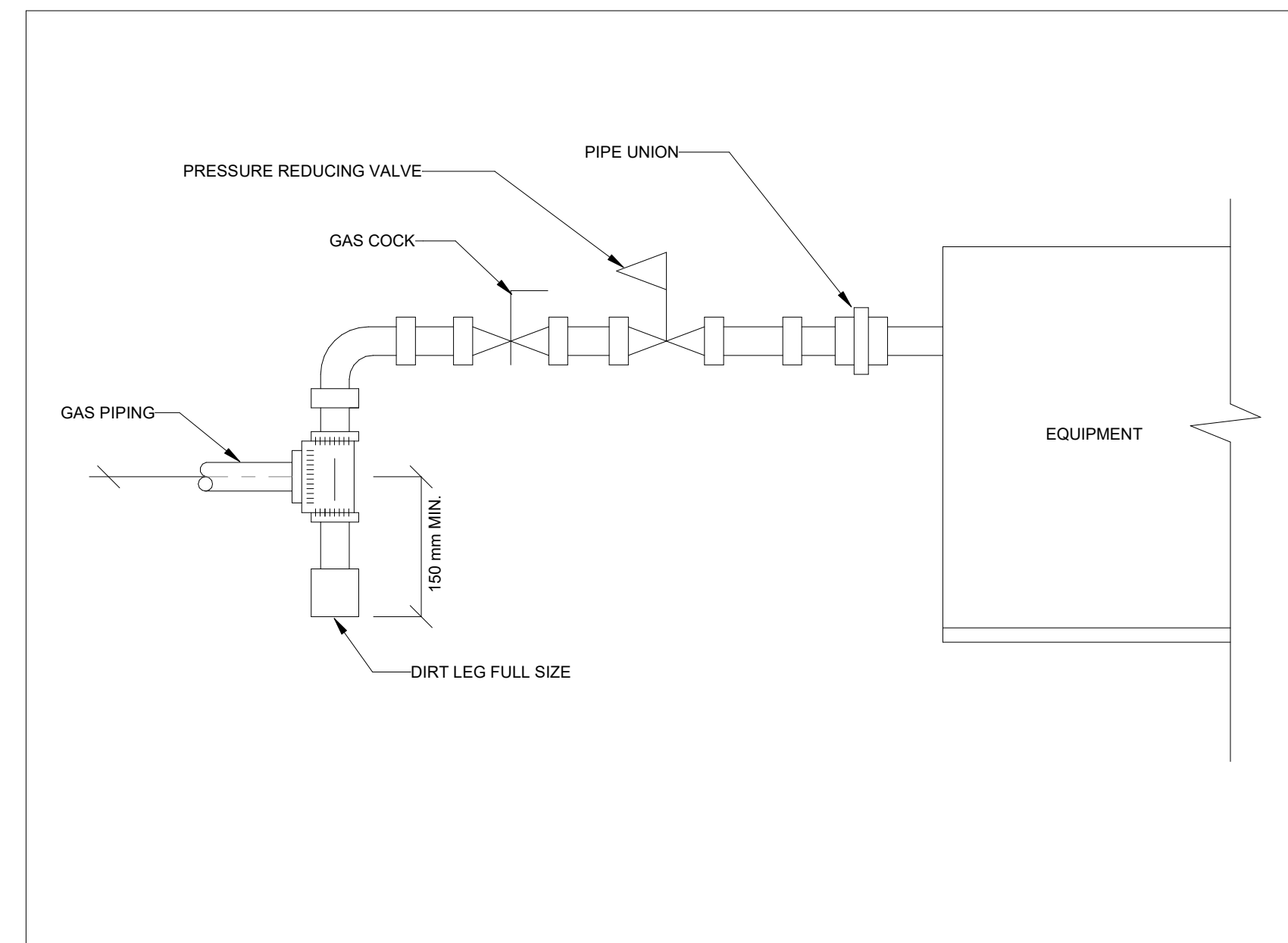
3 ROOFTOP UNIT ROOF CURB  
SCALE:N.T.S.



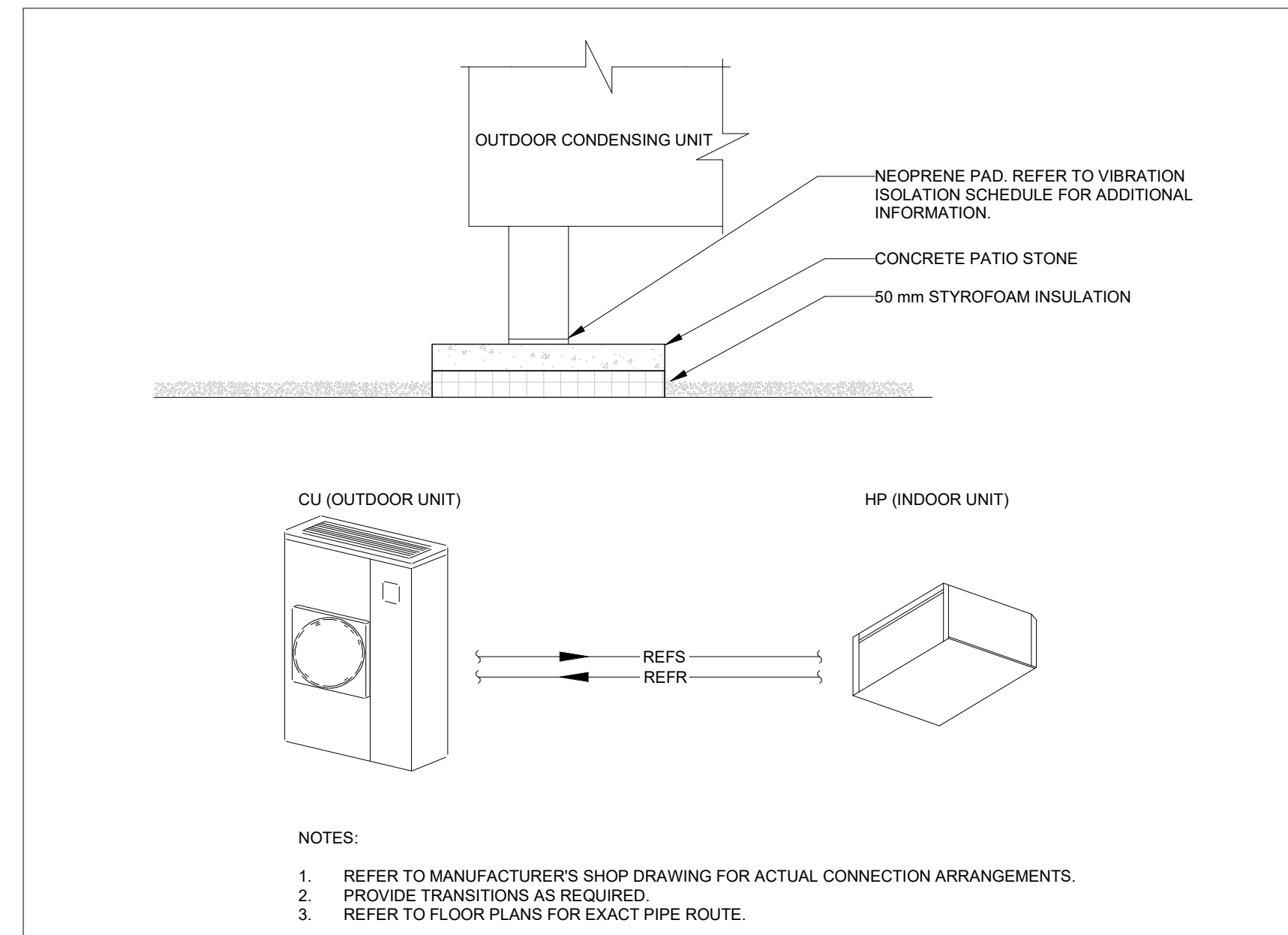
5 DUCTWORK FITTINGS & TAKE-OFF'S  
SCALE:N.T.S.



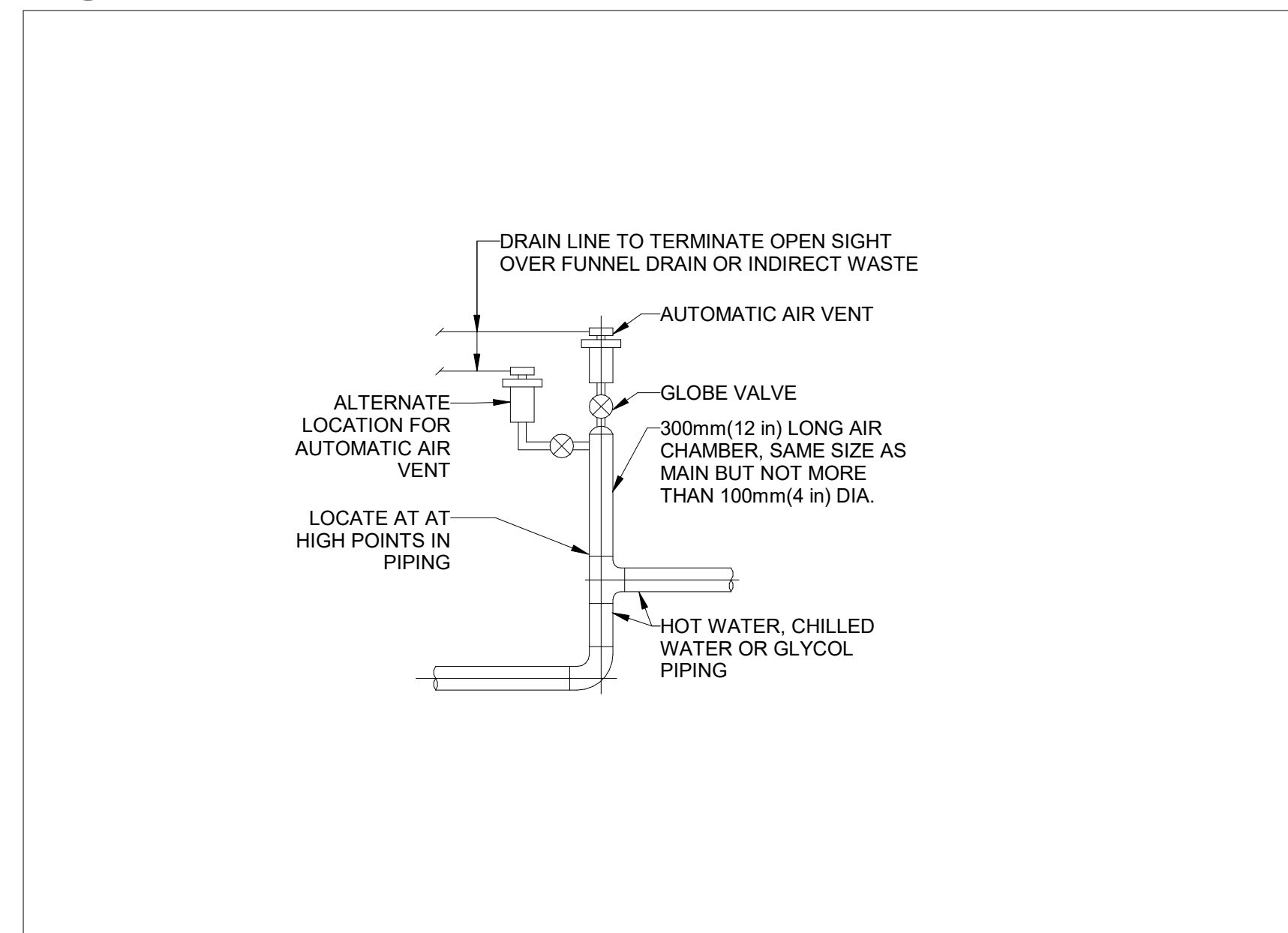
7 SUPPLY AIR LINEAR DIFFUSER (T-BAR CEILING)  
SCALE:N.T.S.



4 GAS PIPE CONNECTION TO EQUIPMENT  
SCALE:N.T.S.



2 OUTDOOR CONDENSING UNIT  
SCALE:N.T.S.



1 AUTOMATIC AIR VENT  
SCALE:N.T.S.

[illegible]

## Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated



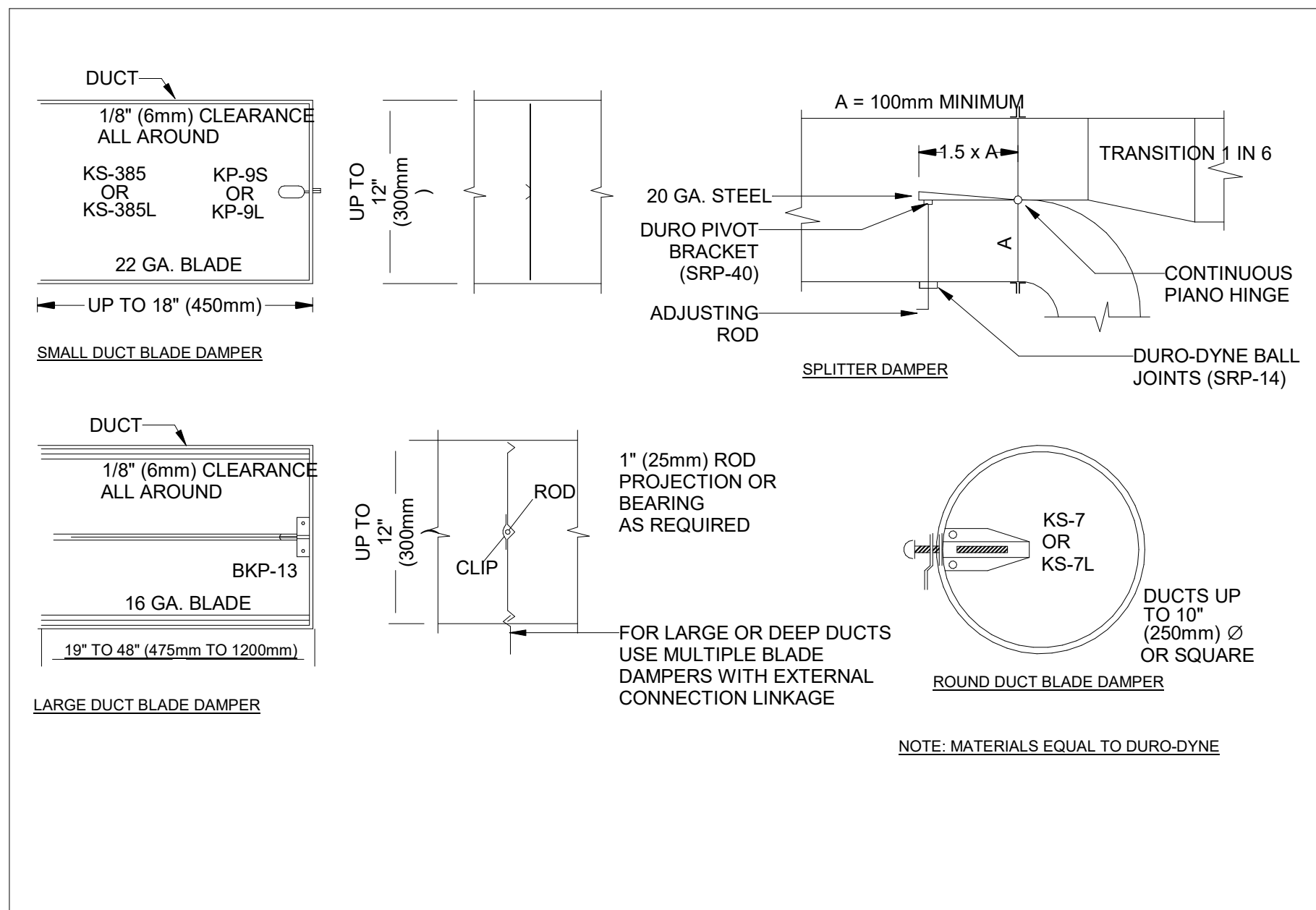
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## MECHANICAL TYPICAL DETAILS I

Drawing  
No.  
**M-800**

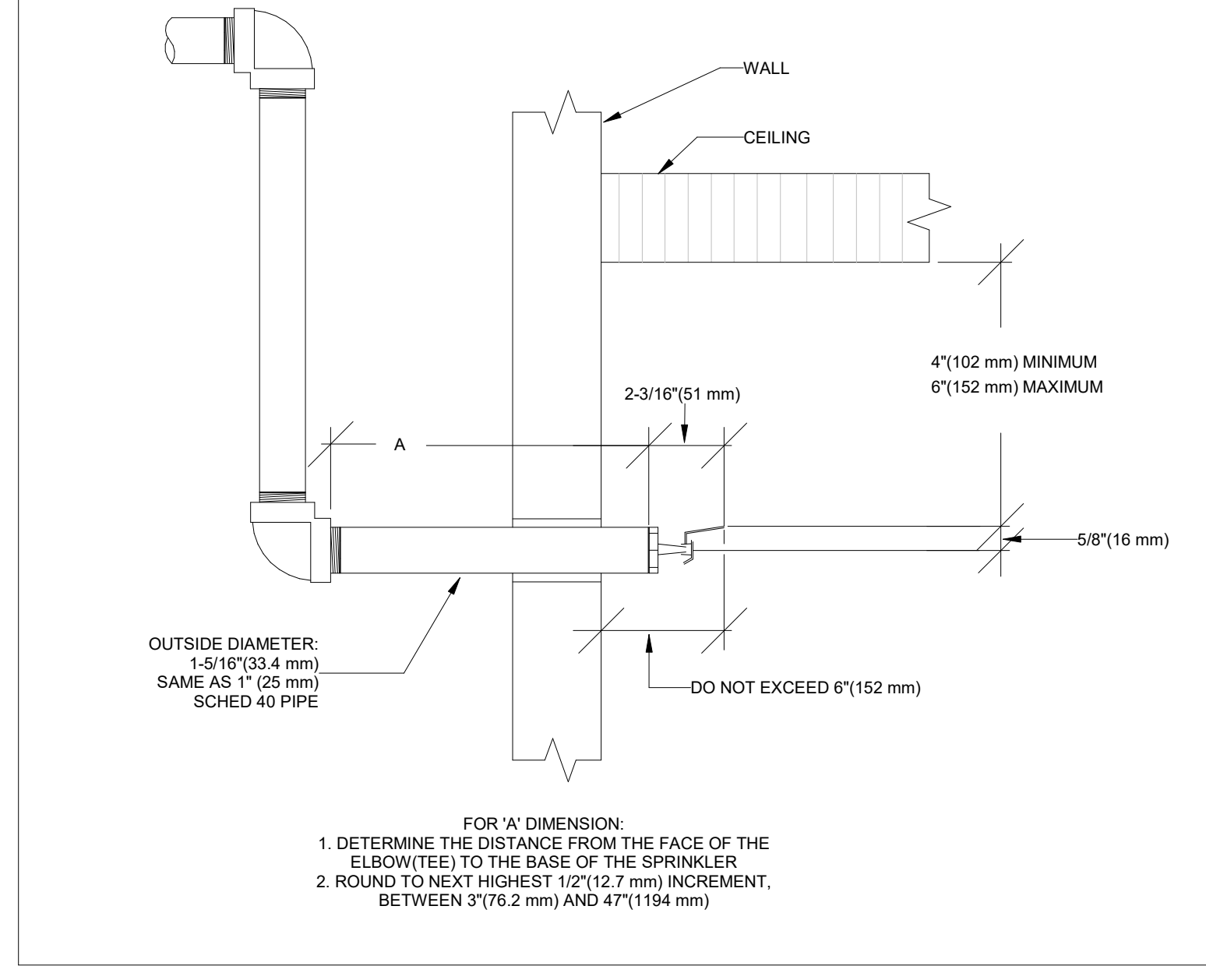


9/3/2025 4:37:16 PM  
Autodesk Docs://2402 - YRP Helicopter Hangar/TT-24-005-YRP-QCG ME Model\_P24.rvt



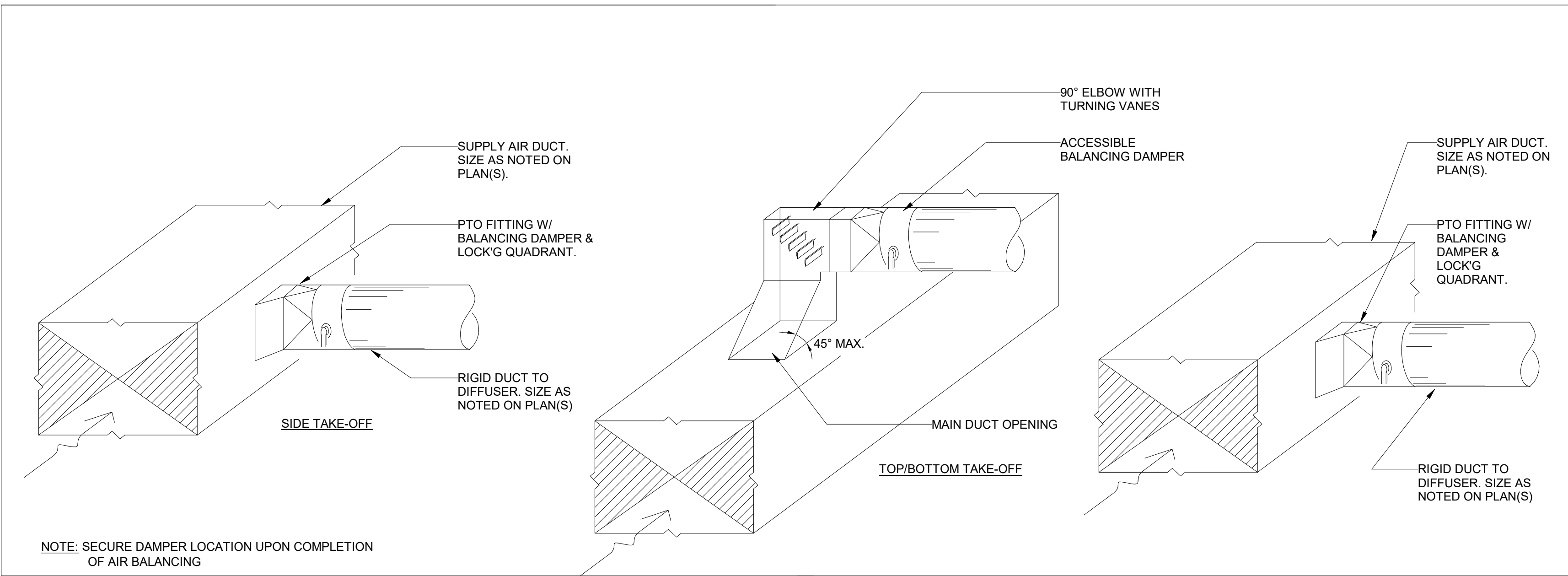
## VOLUME DAMPER

SCALE:N.T.S.



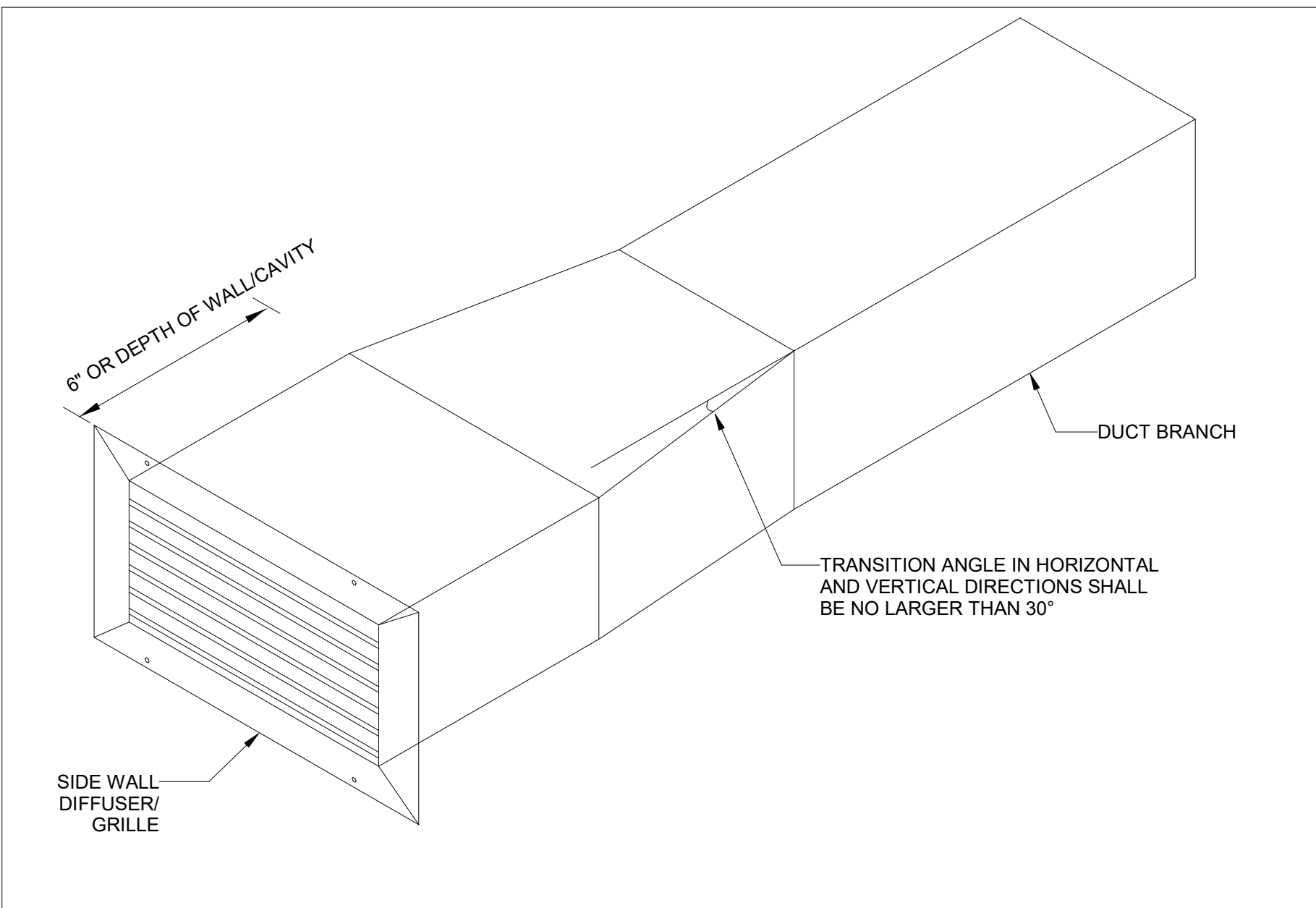
## SPRINKLER HEAD SIDE WALL

SCALE:N.T.S.



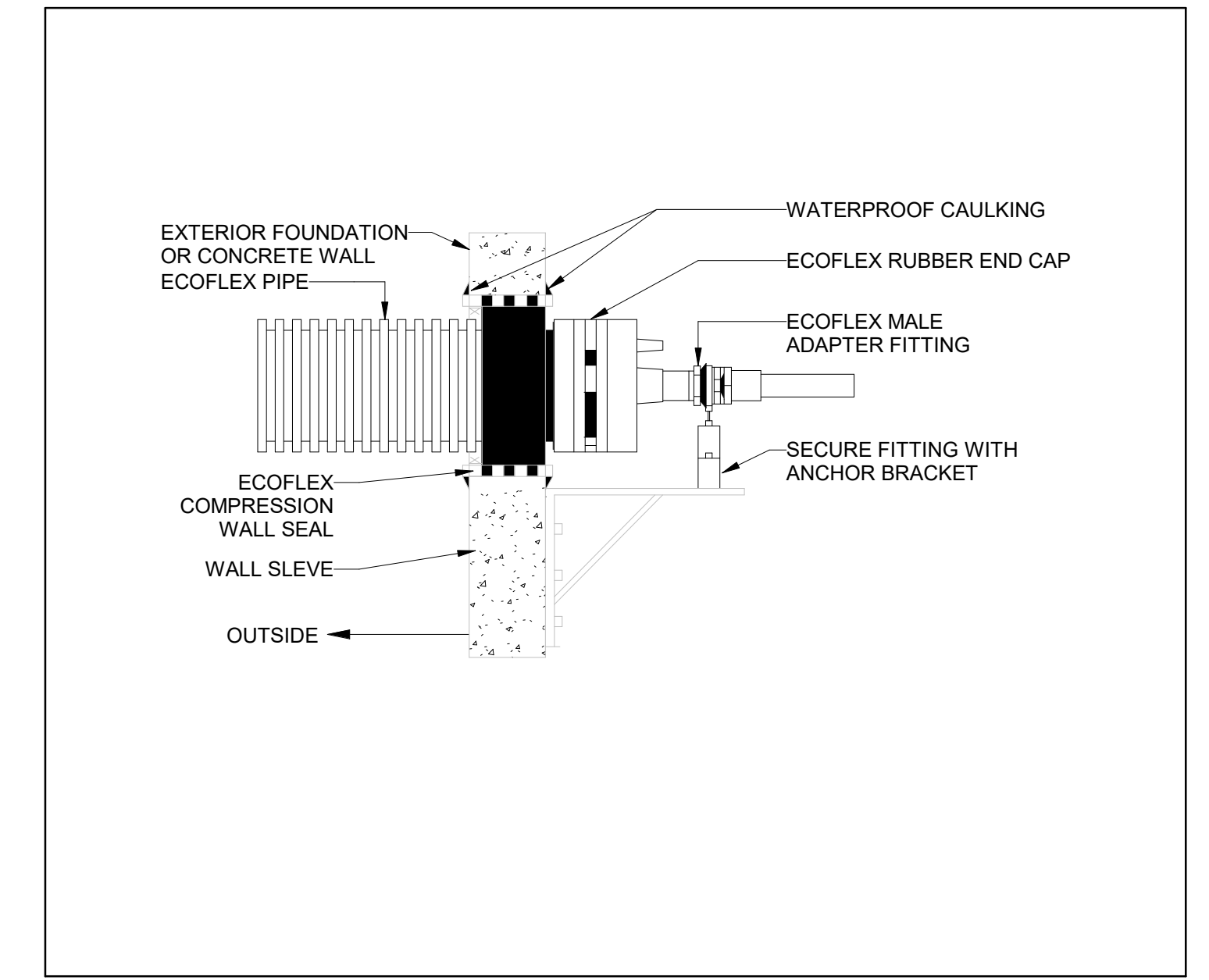
## TYPICAL BRANCH TAKE-OFF INSTALLATION

SCALE: 1 : 1



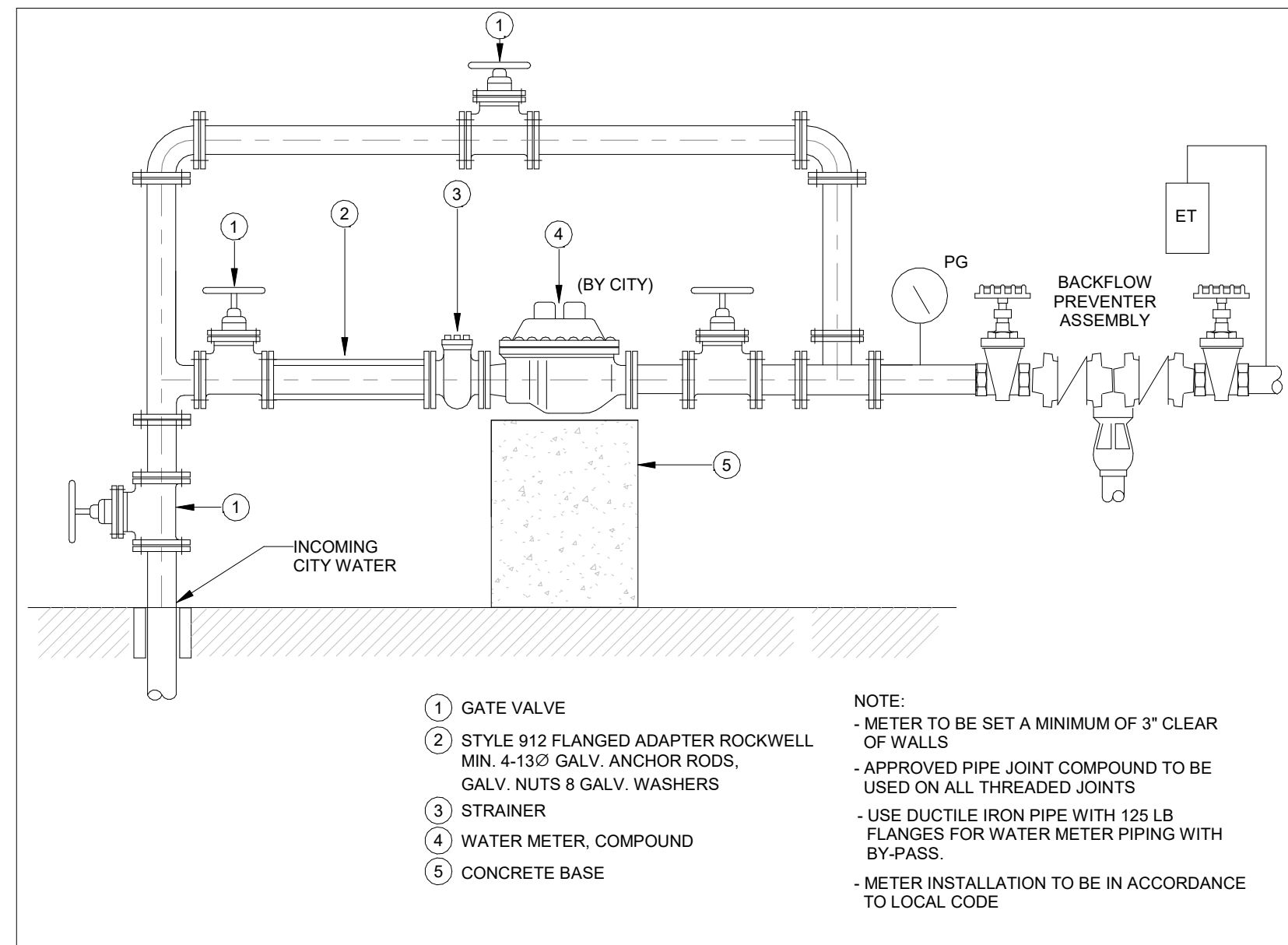
## TYPICAL DETAIL OF SIDE WALL DIFFUSER/GRILLE

SCALE:N.T.S.



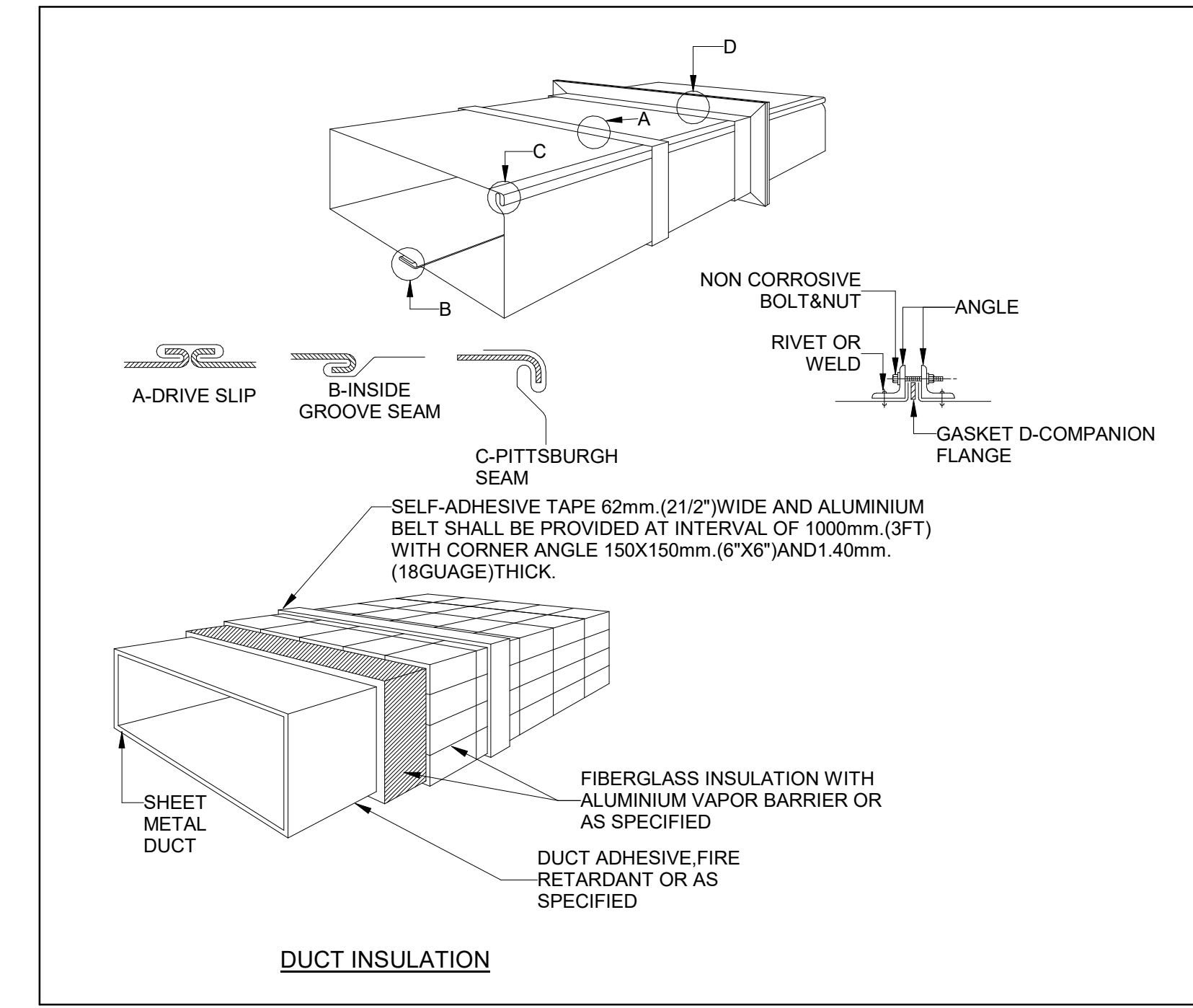
## ECOFLEX THERMO CROSS LINKED WALL PENETRATION

SCALE:N.T.S.



## WATER METER ASSEMBLY

SCALE:N.T.S.



## RECTANGULAR DUCT INSULATION

SCALE:N.T.S.

# PARKIN

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## YORK REGIONAL POLICE HELICOPTER HANGAR

88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

Key  
Plan

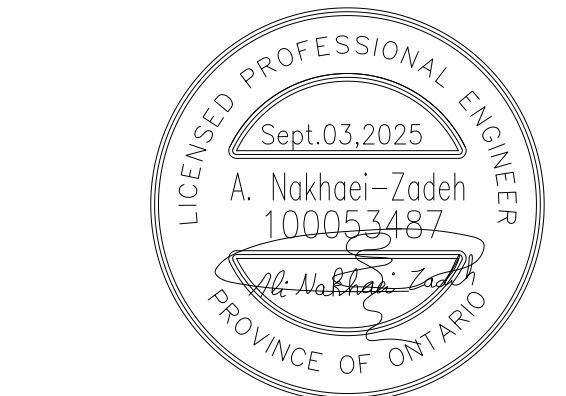
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6	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
5	ISSUED FOR PROGRESS	2025-05-02
4	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
3	ISSUED FOR ADDENDUM 10	2024-10-15
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

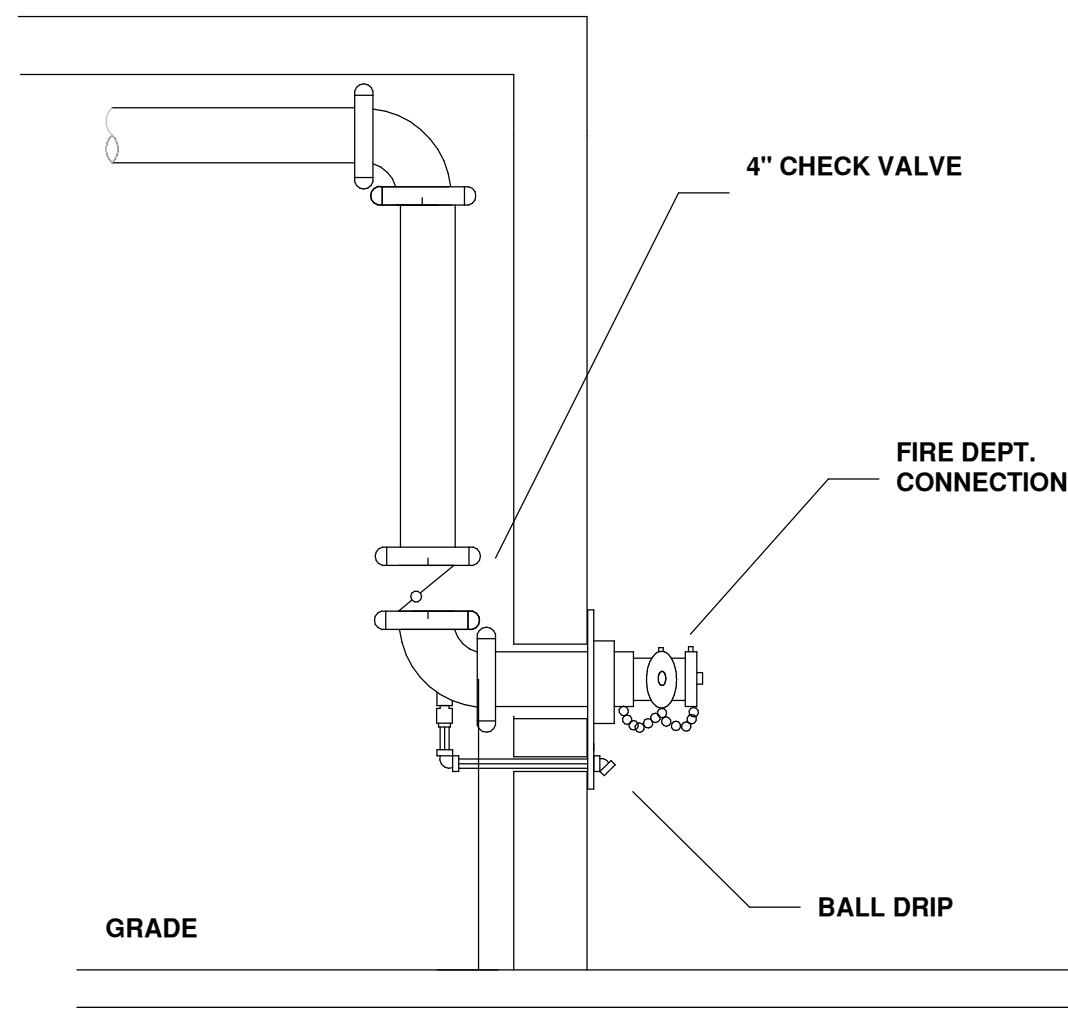
Do not scale drawings

Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated

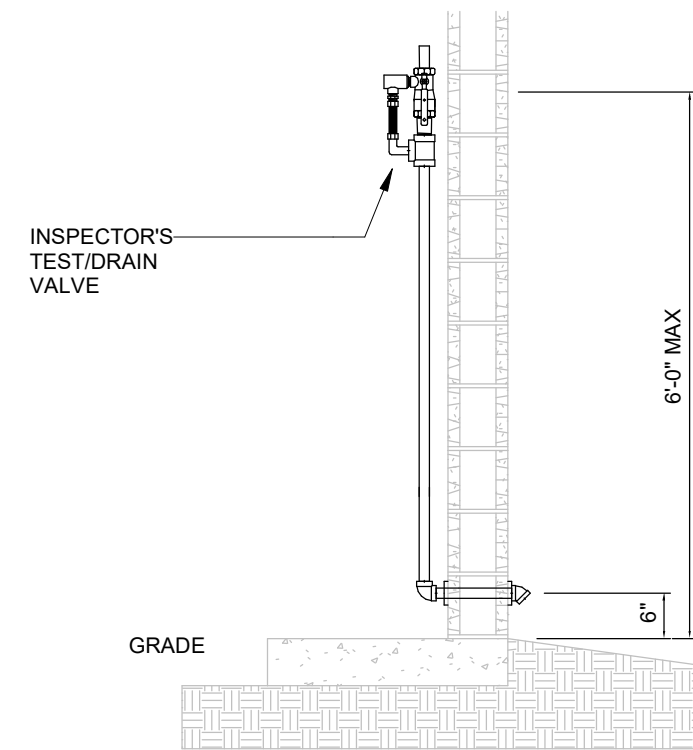


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Title:  
**MECHANICAL TYPICAL  
DETAILS II**

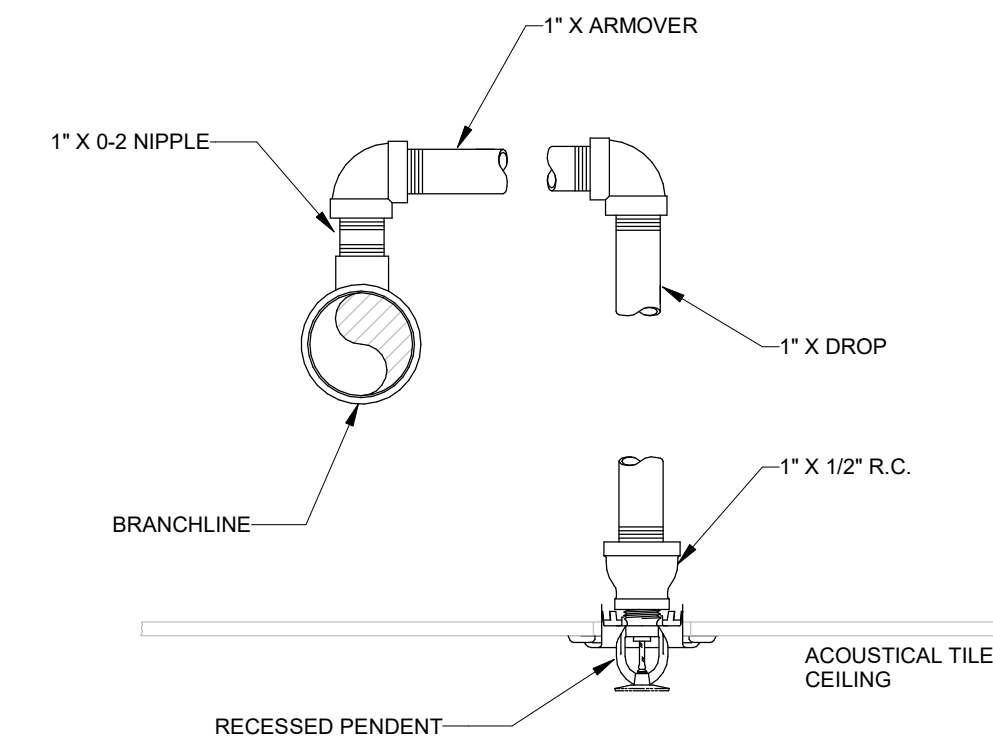
Drawing  
No.  
**M-801**



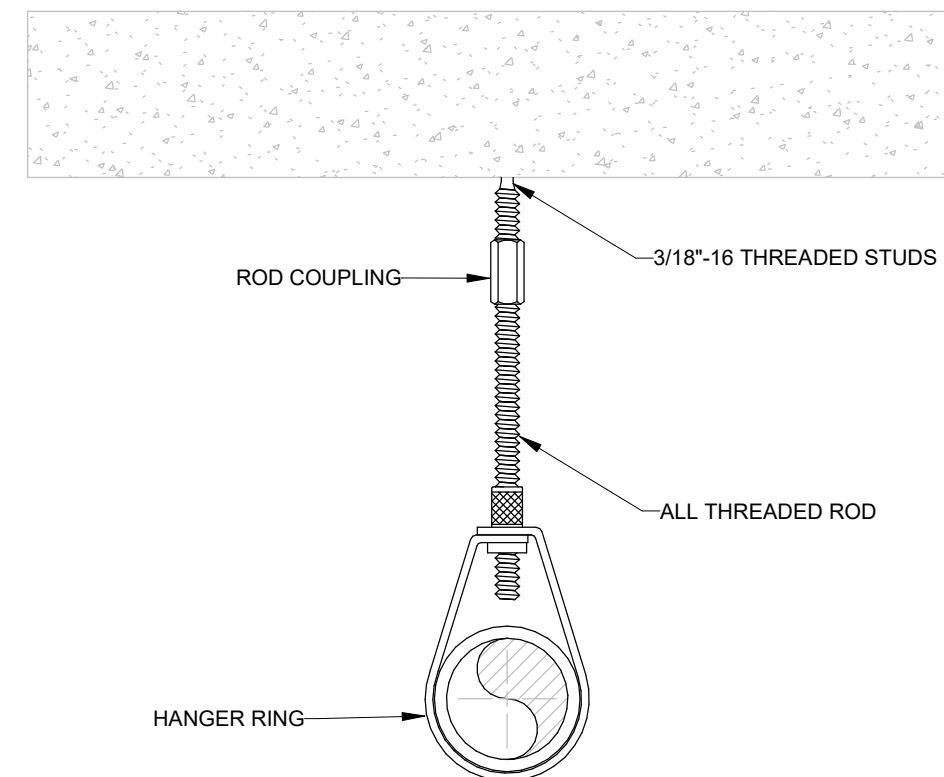
9 FIRE DEPARTMENT CONNECTION  
SCALE:N.T.S.



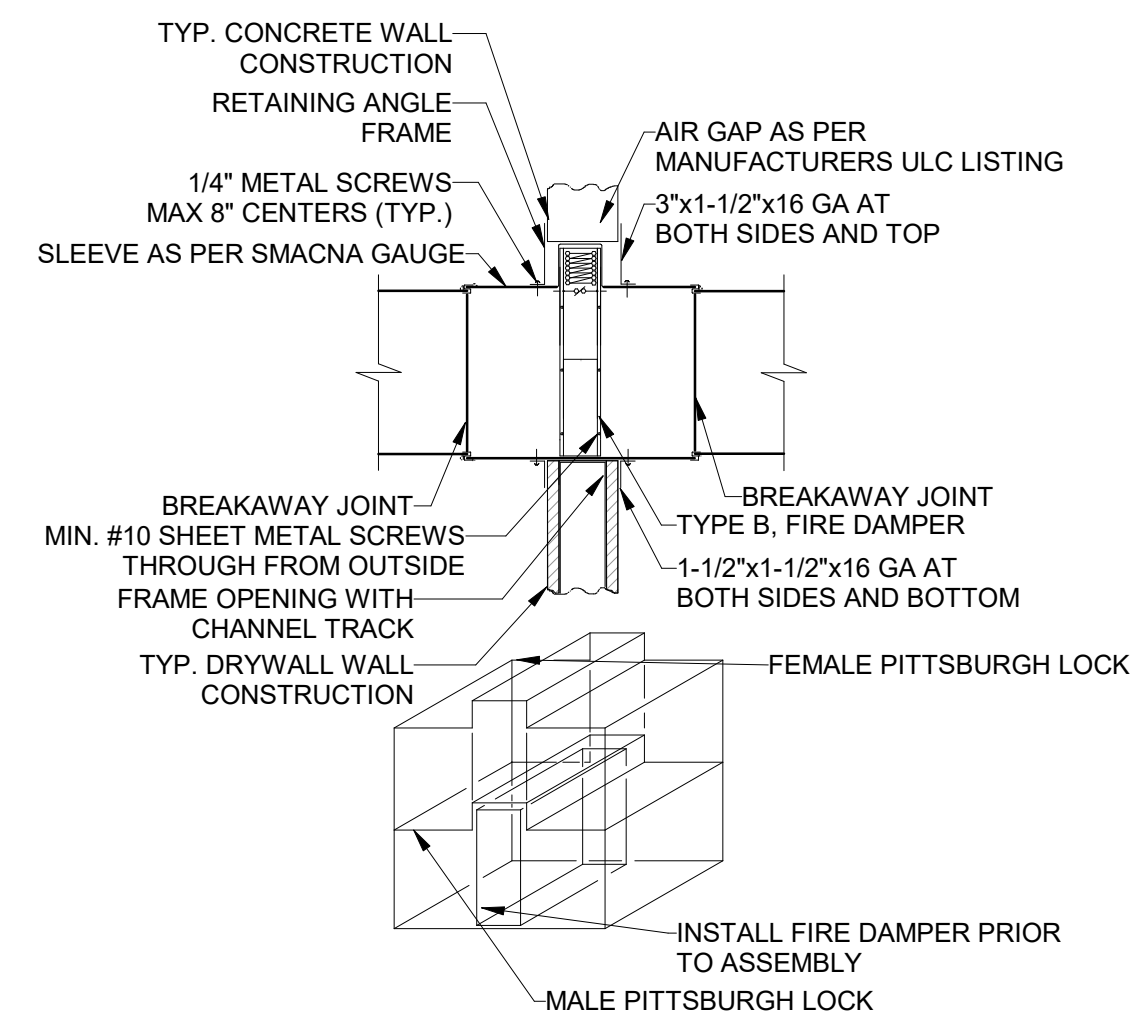
6 INSPECTOR'S TEST DETAIL  
SCALE: N.T.S.



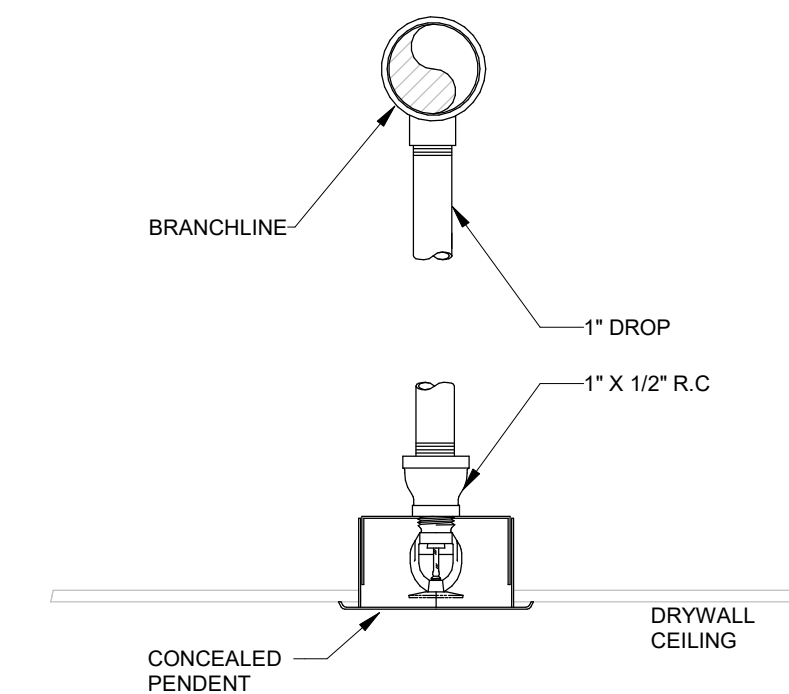
3 RETURN BEND DETAIL  
SCALE:N.T.S.



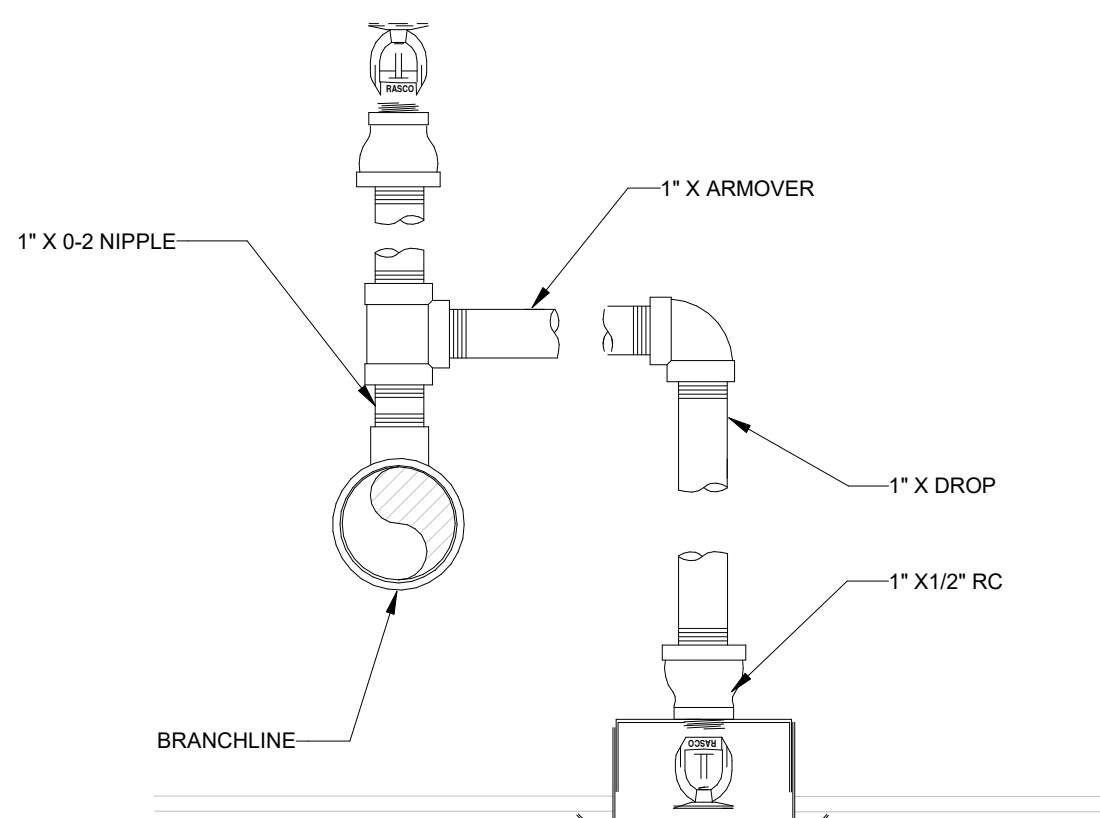
8 FIRE PROTECTION HANGER DETAIL-1  
SCALE:N.T.S.



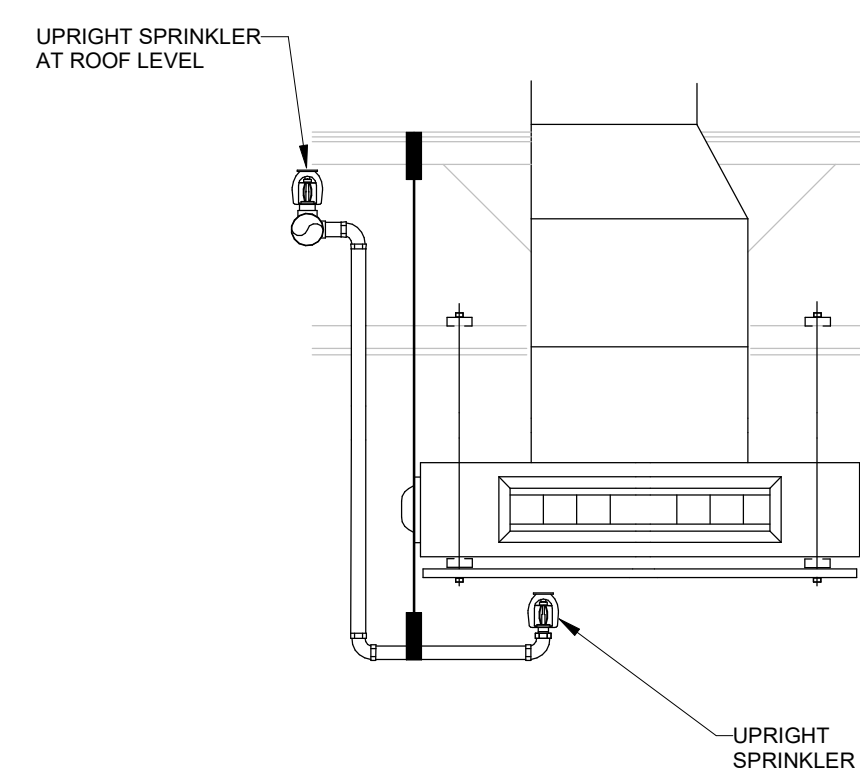
5 TYPE "B" FIRE DAMPER  
SCALE:N.T.S.



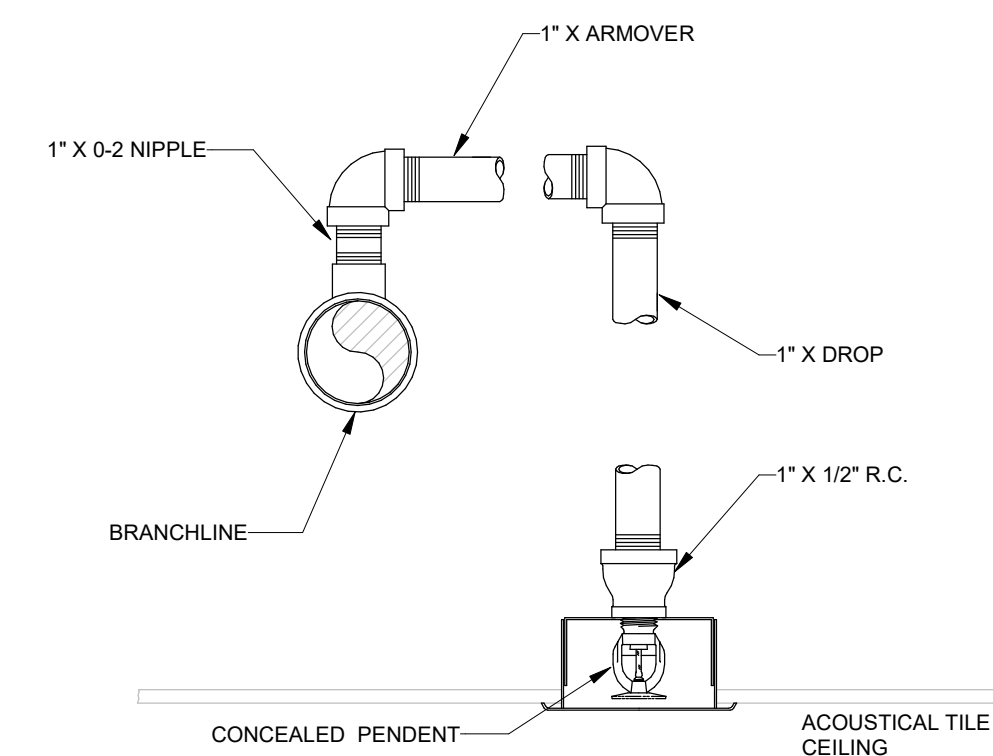
2 CONCEALED SPRINKLER DROP DETAIL  
SCALE:N.T.S.



7 SPRINKLER UP AND DOWN DETAIL  
SCALE:N.T.S.



4 SPRINKLERS BENEATH DUCTWORK  
SCALE:N.T.S.



1 CONCEALED RETURN BEND DETAIL  
SCALE:N.T.S.

[illegible]

## Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated



Sheet  
Title:

## MECHANICAL TYPICAL DETAILS III

Drawing  
No.  
**M-802**

# YORK REGIONAL POLICE HELICOPTER HANGAR

88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

## Key Plan

[illegible]

## Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

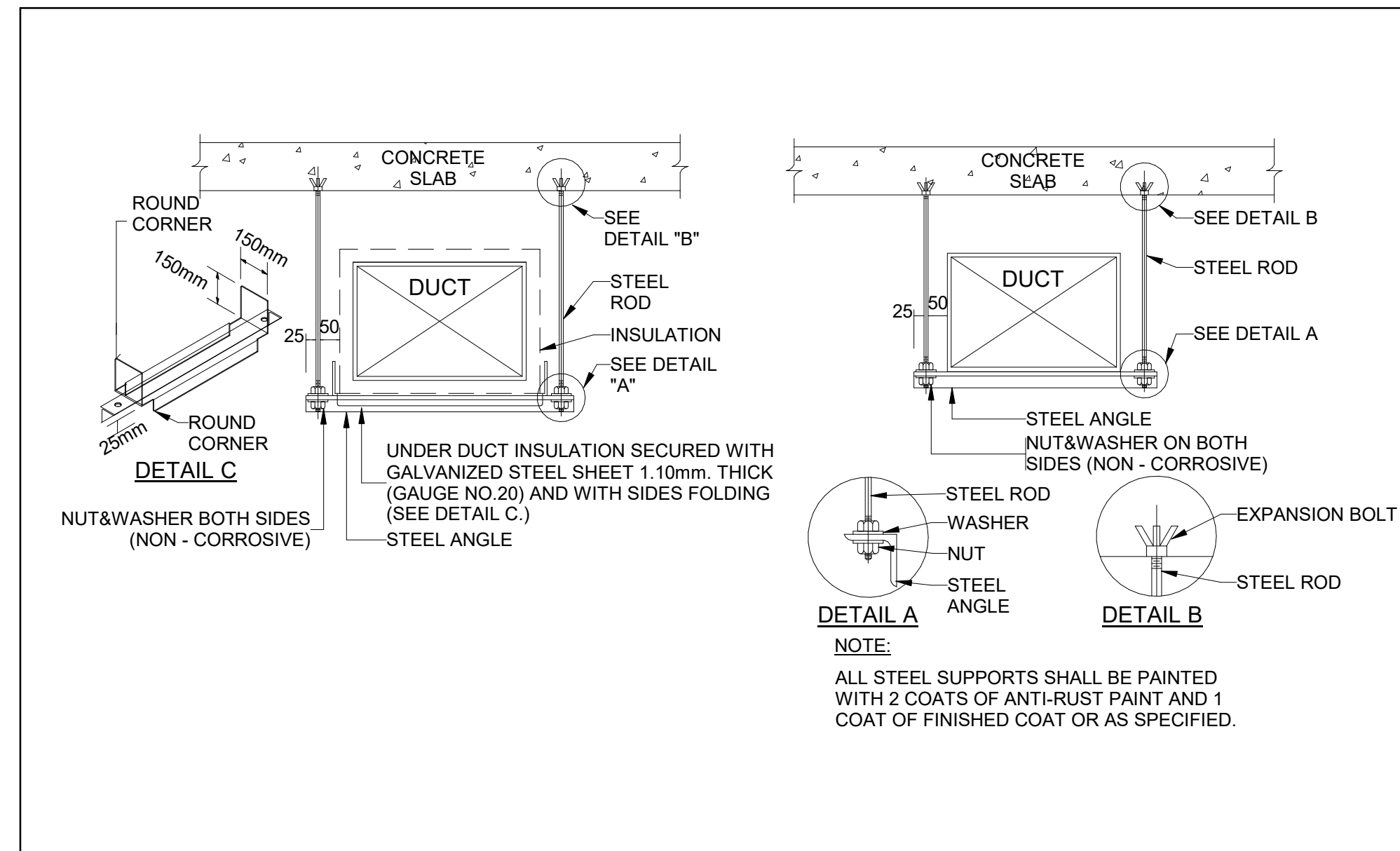
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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated



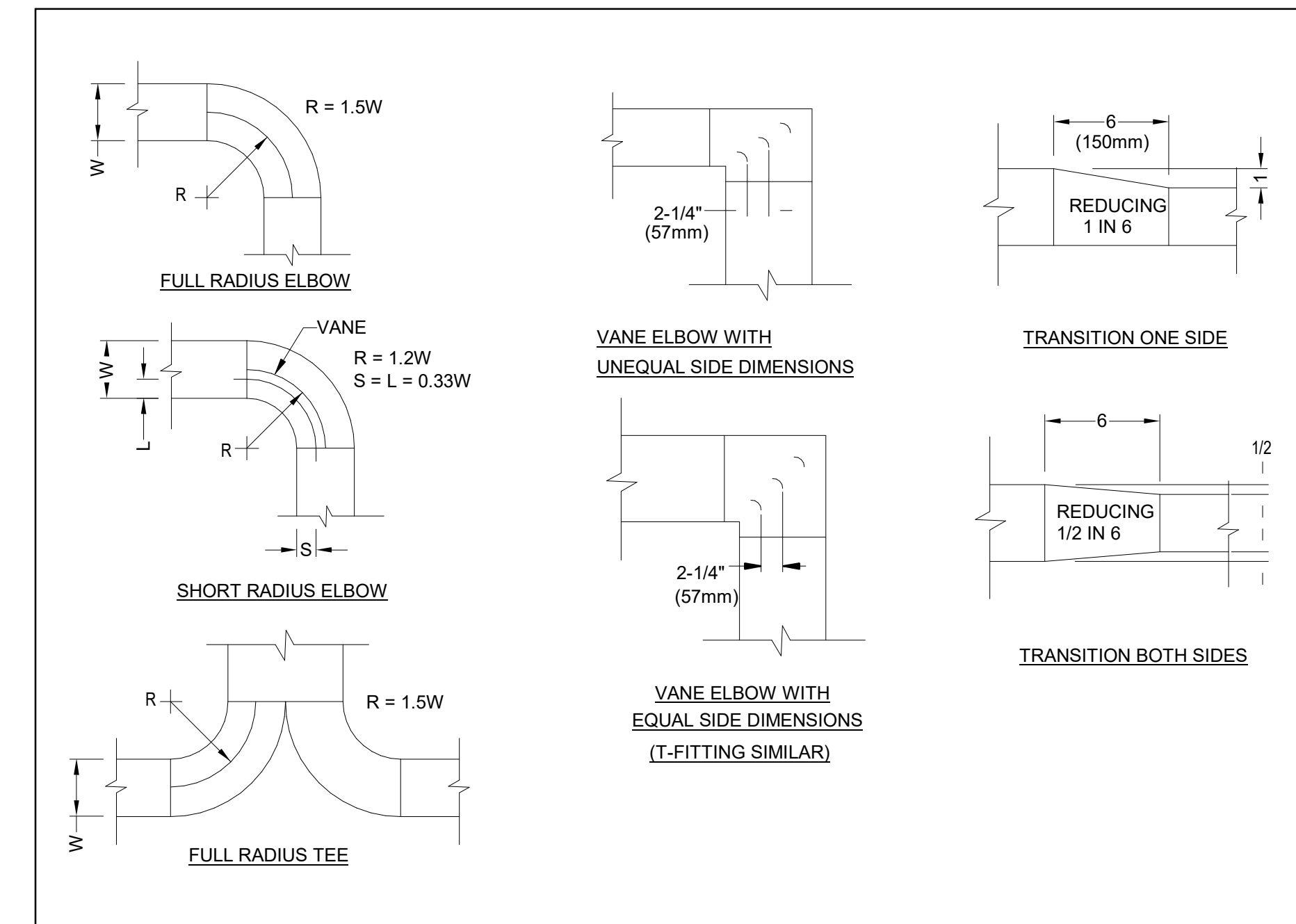
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Title:

## MECHANICAL TYPICAL DETAILS IV

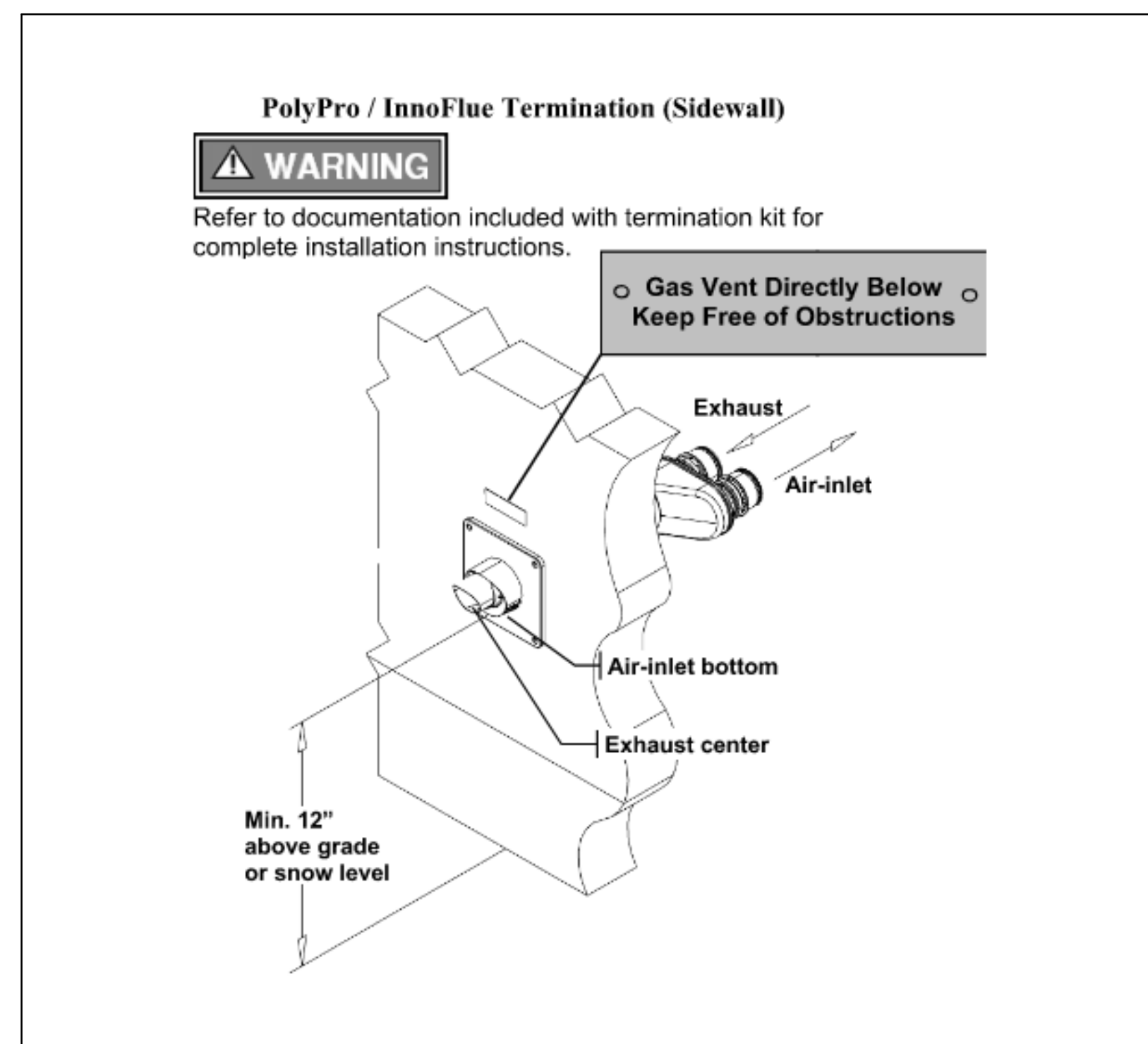
Drawing  
No.  
**M-803**



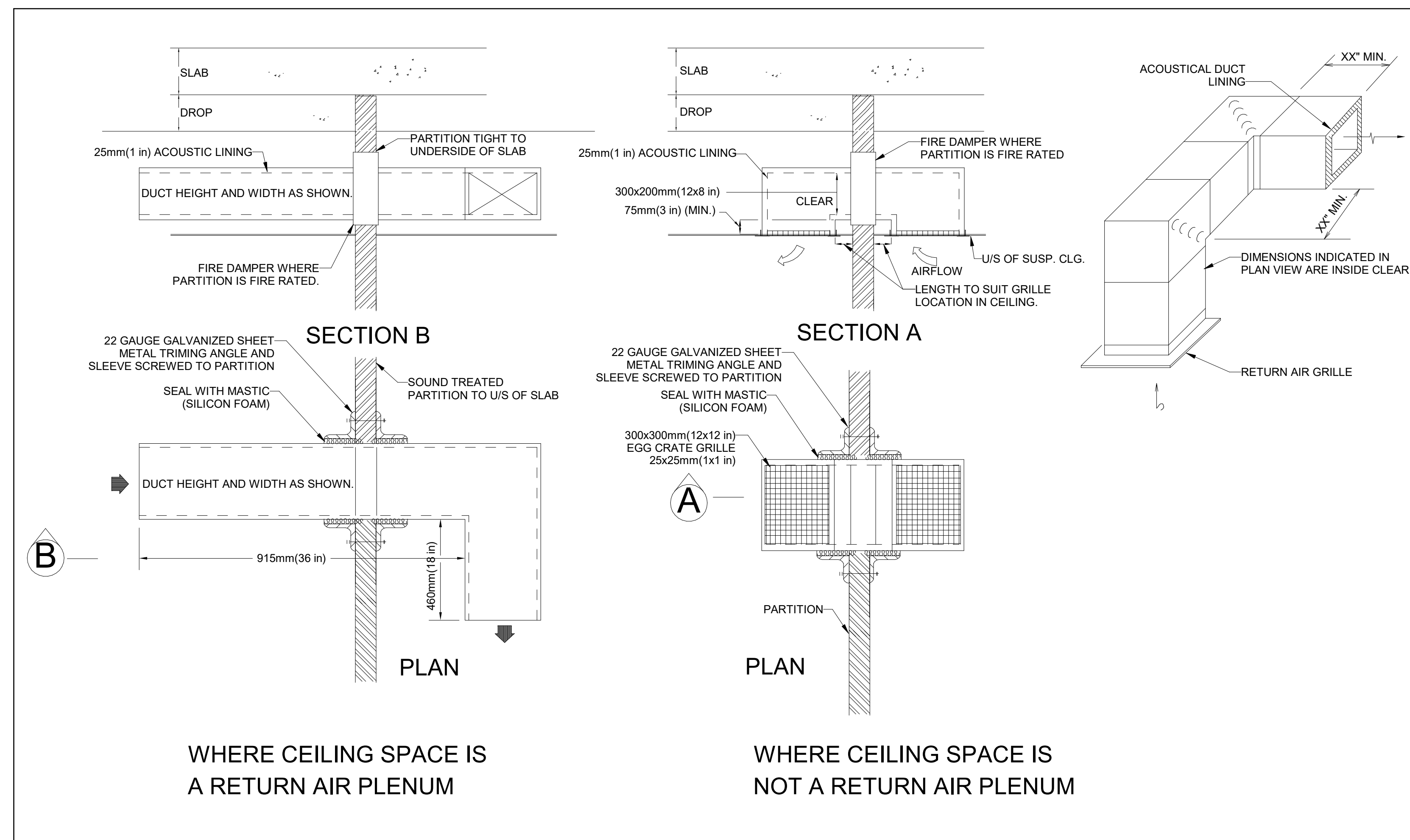
3 DUCT HANGER AND SUPPORTS  
SCALE:N.T.S.



## 2 SQUARE & RADIUS ELBOWS

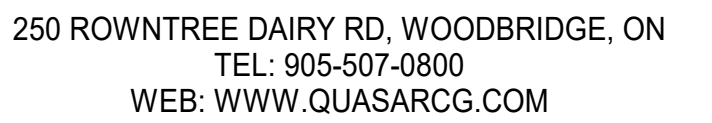


4 BOILER FLUE VENT TERMINATION SIDEWALL  
SCALE:N.T.S.



1 TRANSFER AIR DUCT  
SCALE:N.T.S.





88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

[illegible]

## Issues

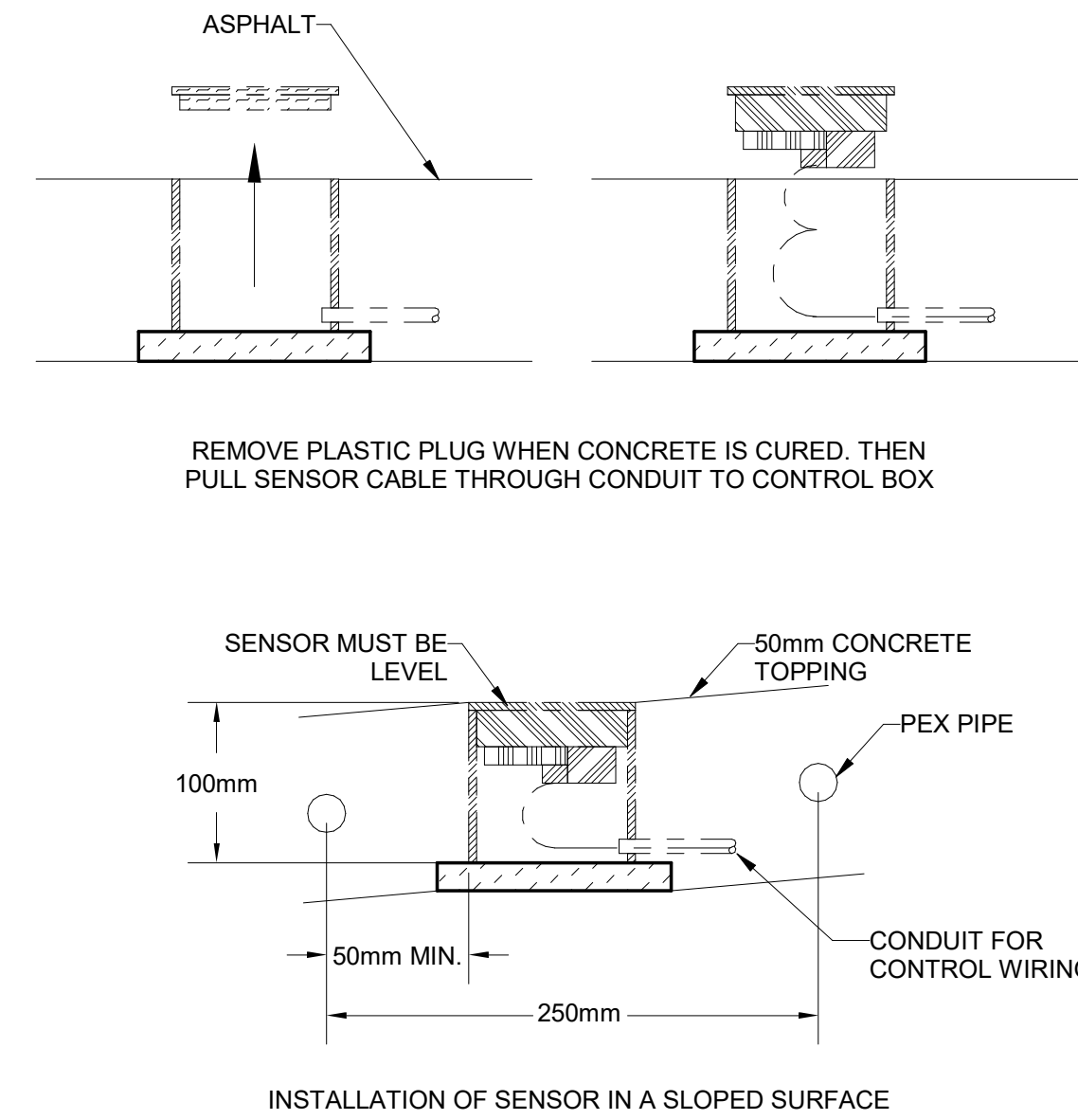
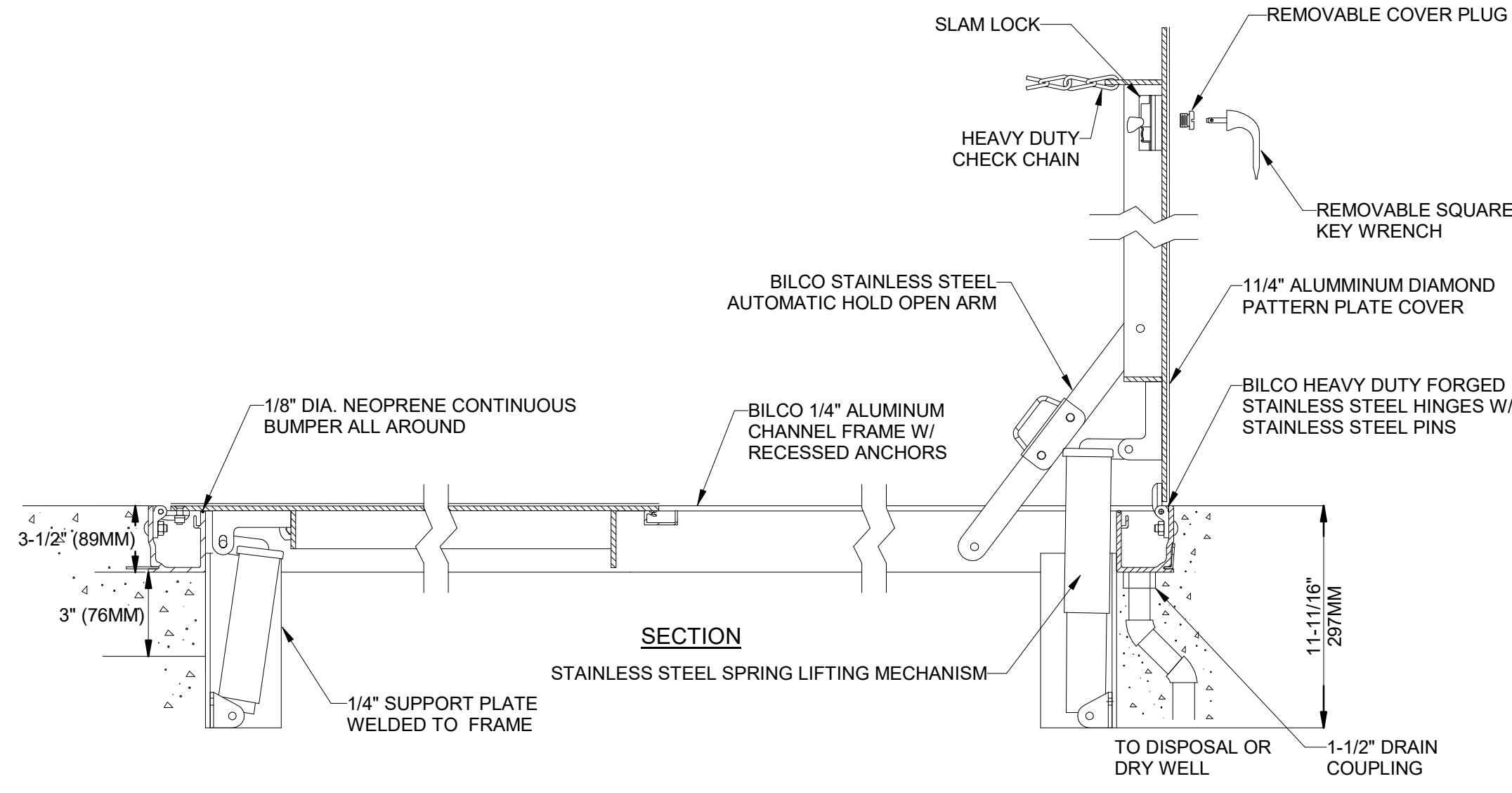
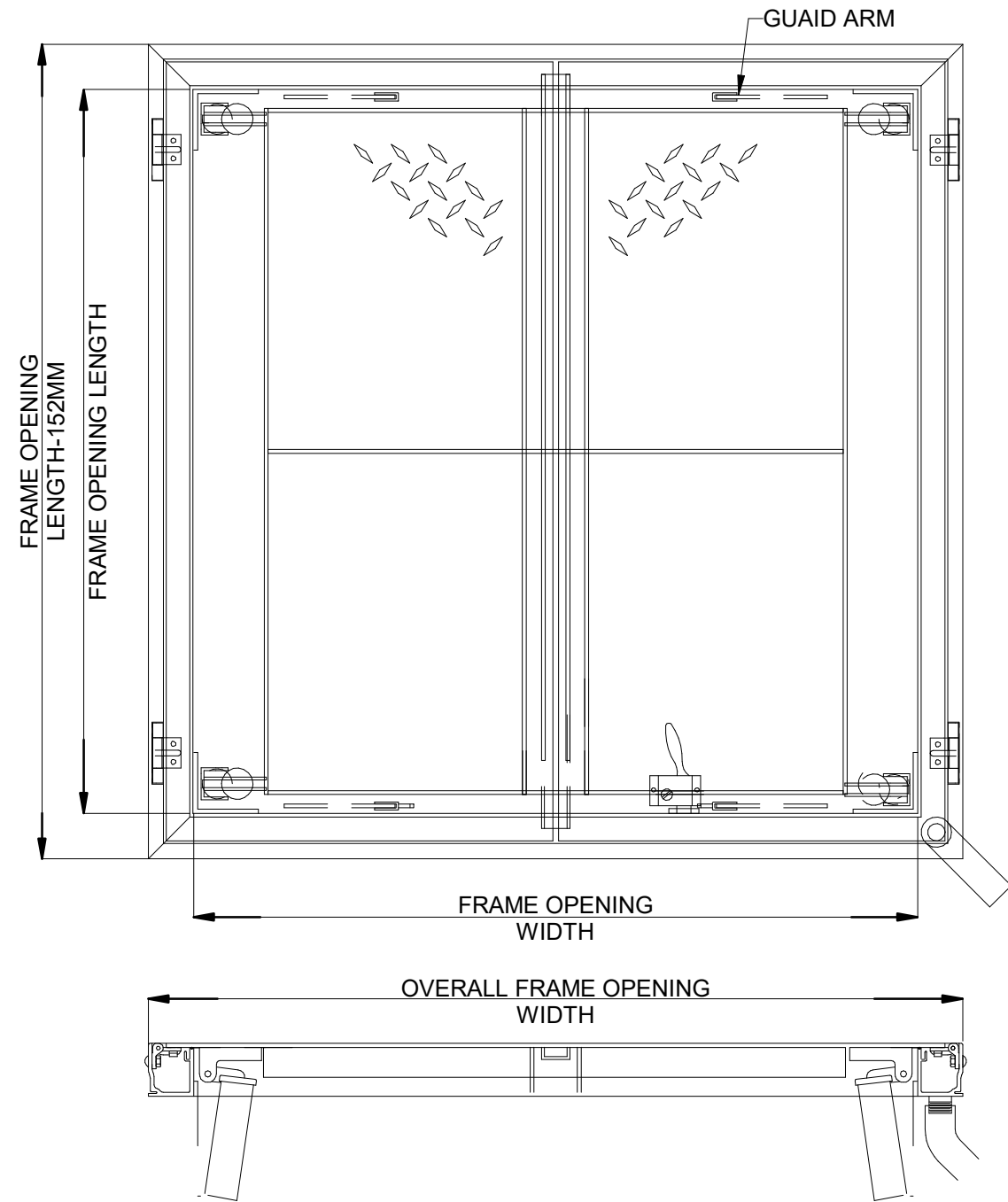
Do not scale drawings

The seal is circular with a double-line border. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom, separated by small gaps. In the center of the seal, the text "Sept.03.2025" is printed above the name "A. Nakhaei-Zadeh", which is above the license number "100053487". Below the license number, there is a stylized signature of "A. Nakhaei-Zadeh" in cursive script.

Drawing  
No.  
**M-804**

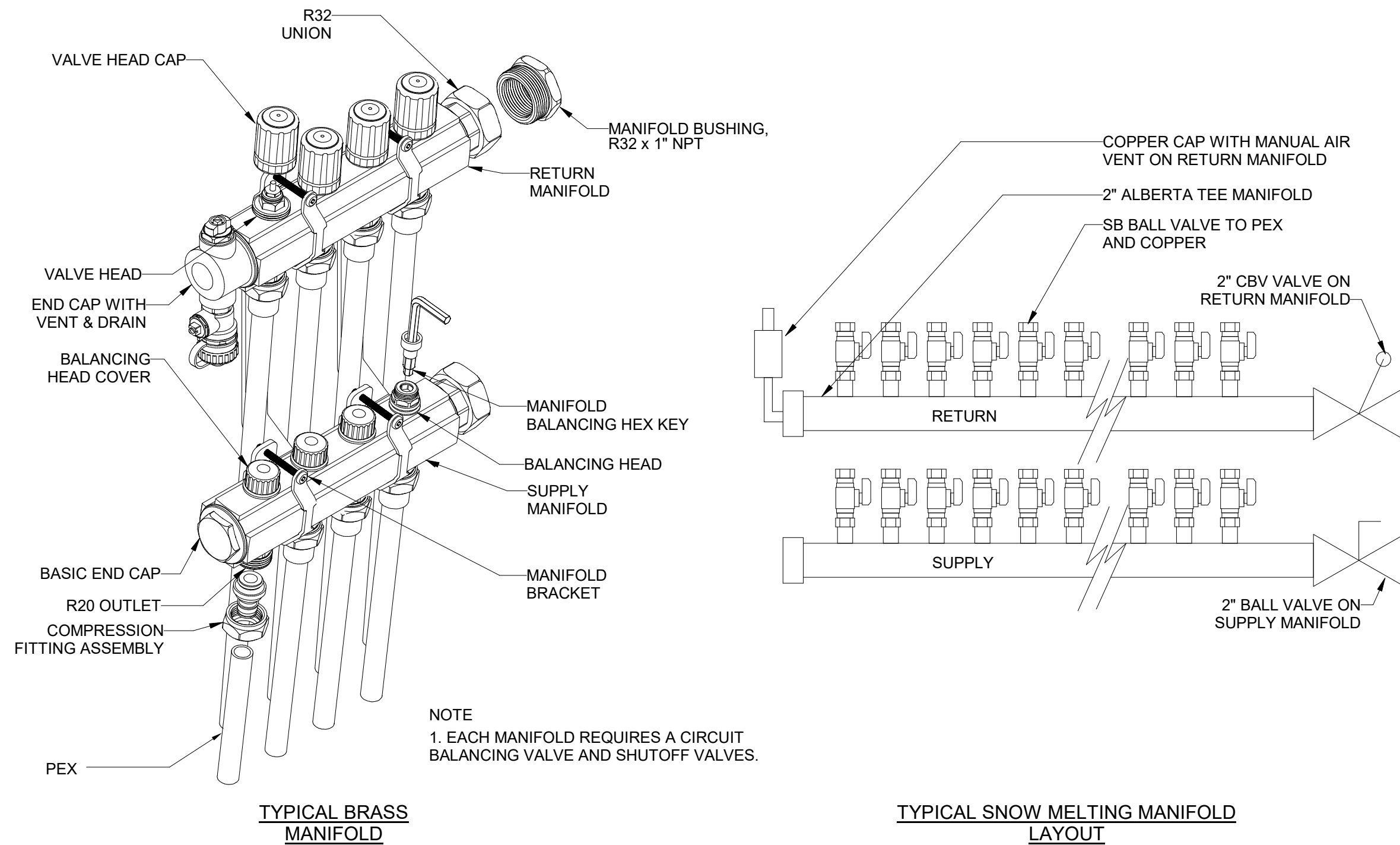


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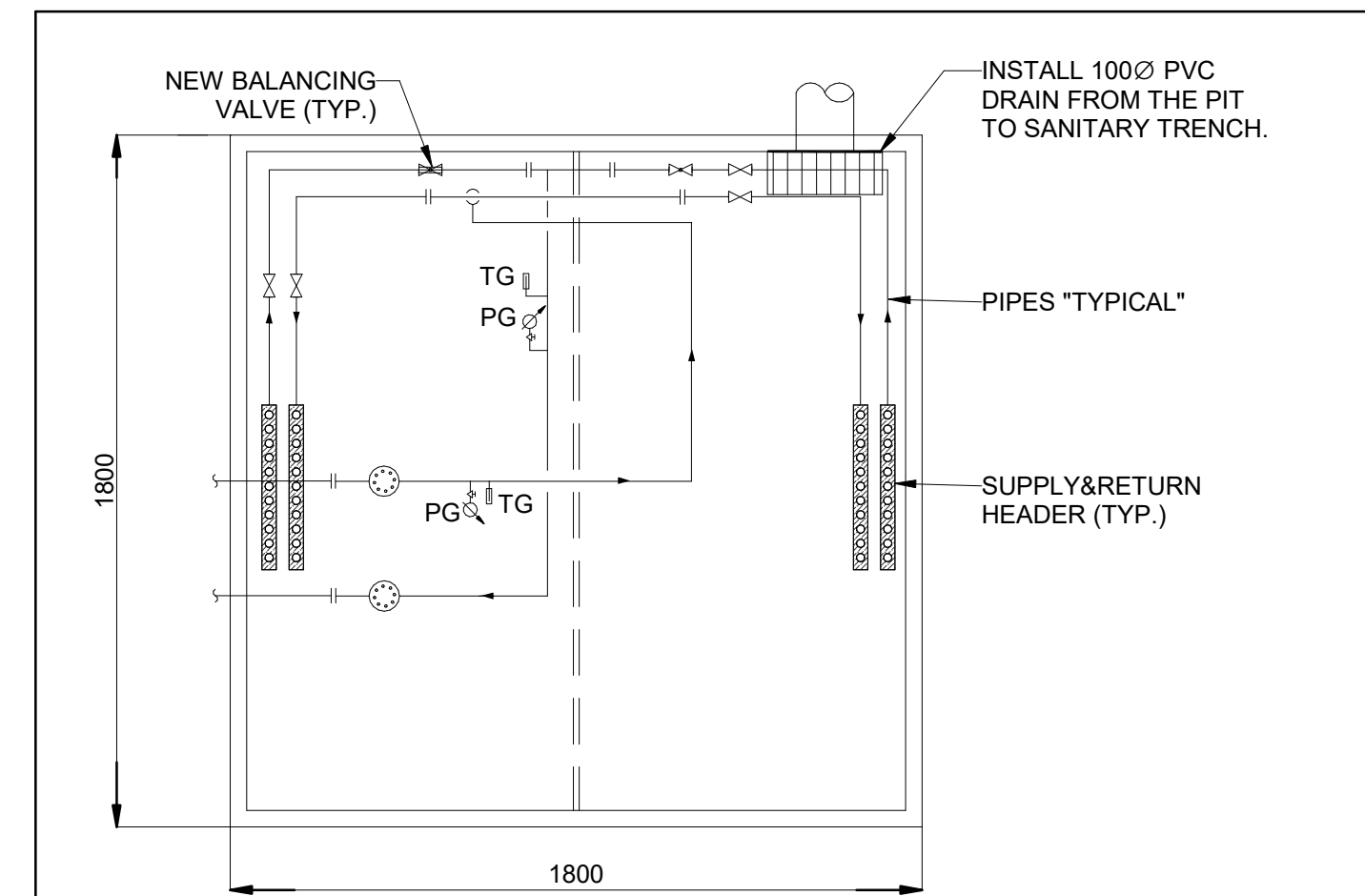


5 SNOW MELT MANIFOLD PIT ACCESS DOOR DETAIL  
SCALE:N.T.S.

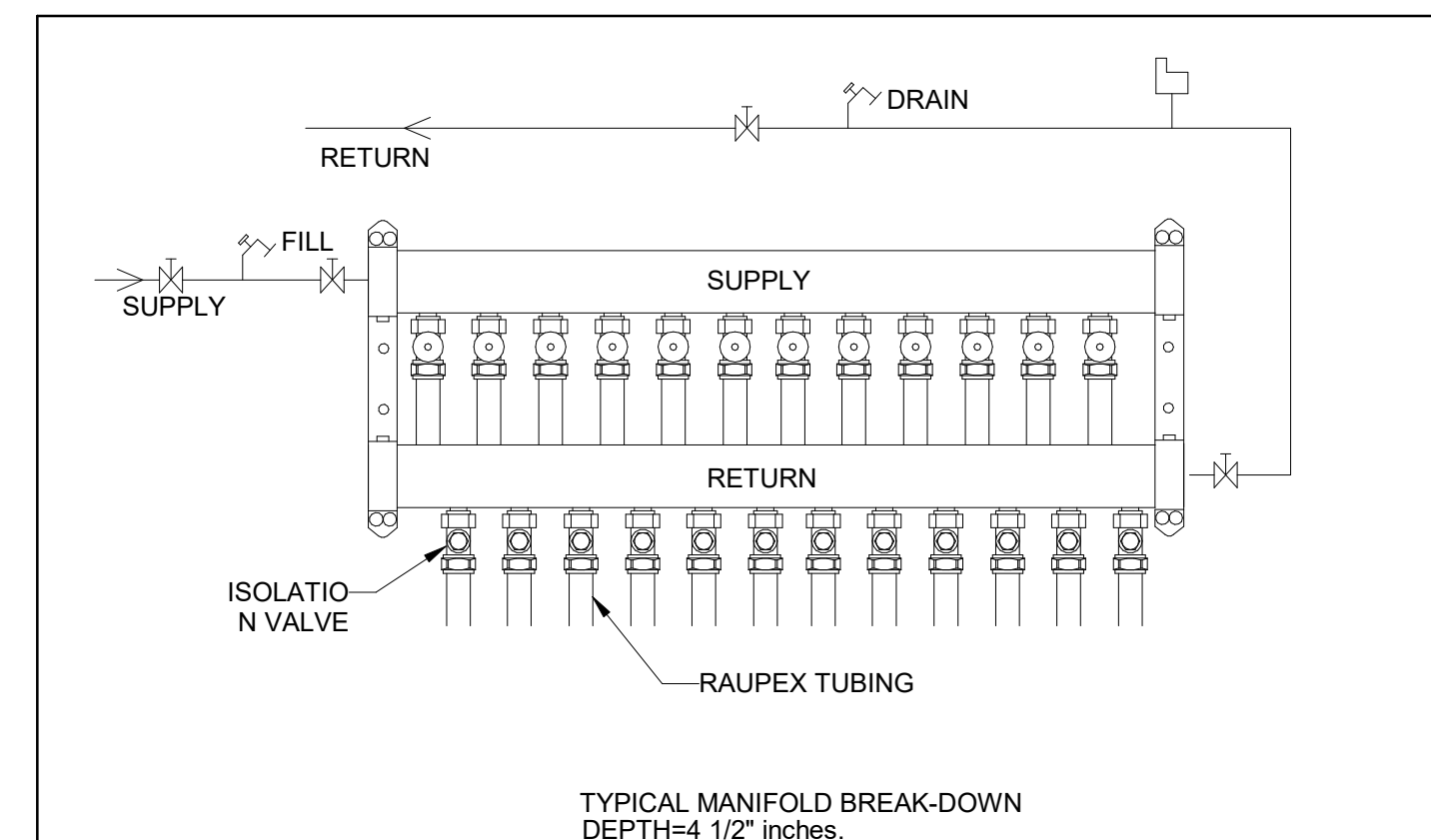
3 SNOW/ICE SENSOR DETAIL  
SCALE:N.T.S.



4 TYPICAL SNOW MELTING MANIFOLD DETAIL  
SCALE:N.T.S.



2 SNOW MELT MANIFOLD PIT PLAN  
SCALE:N.T.S.



1 SNOWMELT MANIFOLD DETAIL  
SCALE:N.T.S.

PARKIN

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YORK REGIONAL POLICE  
HELICOPTER HANGAR

88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

Key  
Plan

NO.	ISSUED	DATE
6	ISSUED FOR CONSTRUCTION	2025-09-05
5	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
4	ISSUED FOR PROGRESS	2025-05-02
3	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

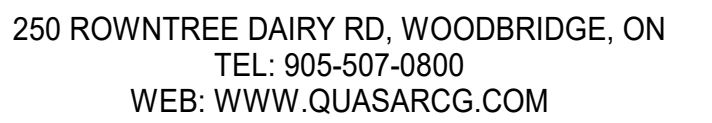
Do not scale drawings

Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated



Sheet  
Title:  
MECHANICAL TYPICAL  
DETAILS VI

Drawing  
No.  
M-805



88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

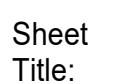
HGS/HGR PIPING  
 THERMAL INSULATION (TYP)  
 RETURN AIR LOUVRE ABOVE  
 RETURN MANIFOLD  
 SUPPLY MANIFOLD  
 1000X1000 HINGED METAL ACCESS PANEL REFER ELEVATION 2/A310  
 HEPEX TUBING  
 BEND SUPPORT  
 NAILING GUARDS MIN. 12Ø TUBING  
 65  
 SLAB SENSOR  
 MAX. SPACING 150mm FOR 600mm FROM EXTERIOR WALL AND 225 FOR OTHER PIPES  
 450  
 BLOCK WALL/MASONRY ENCLOSURE  
 MANIFOLD SUPPORT BRACKET  
 18 GAUGE PAINTED STEEL RECESSED MANIFOLD BOX C/W LOCKABLE DOOR APPROX SIZE 150X750X750  
 MANIFOLD SUPPORT BRACKET OFFSET TO ALLOW HEPEX TO PASS BEHIND  
 FLOOR FINISH  
 4.5mm WIRE MESH (BY DIV 20)  
 50mm THICK RIGID STYROFOAM INSULATION

SCALE:N.T.S.



All measurements are to be checked and verified on site by the contractor before proceeding with work

Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated



## MECHANICAL TYPICAL DETAILS VII

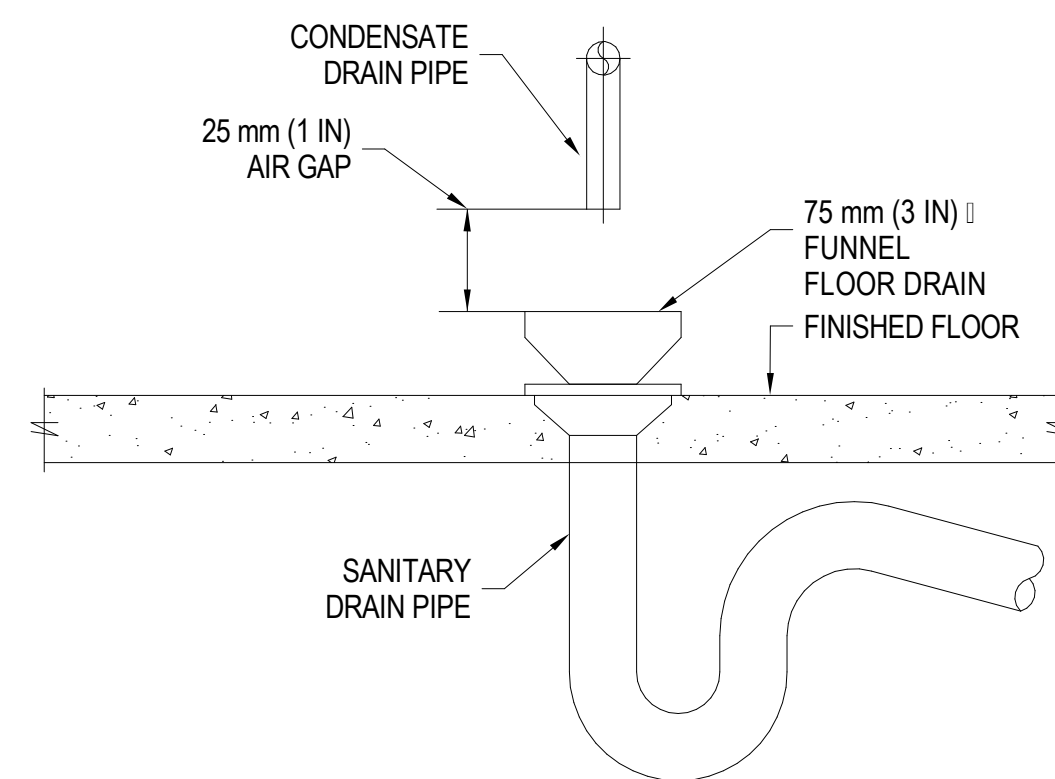
Drawing  
No.  
**M-806**



# YORK REGIONAL POLICE HELICOPTER HANGAR

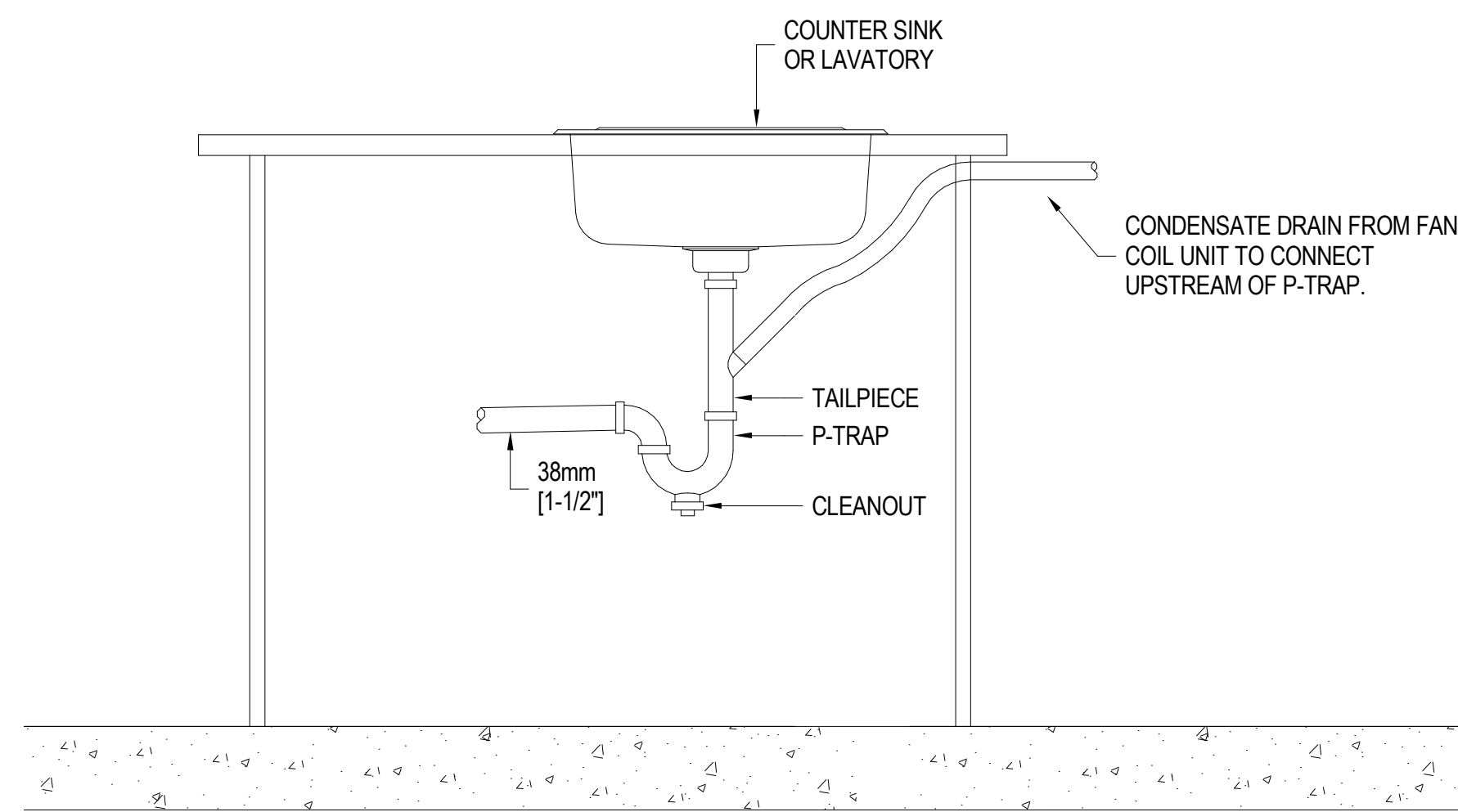
88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

## Key Plan



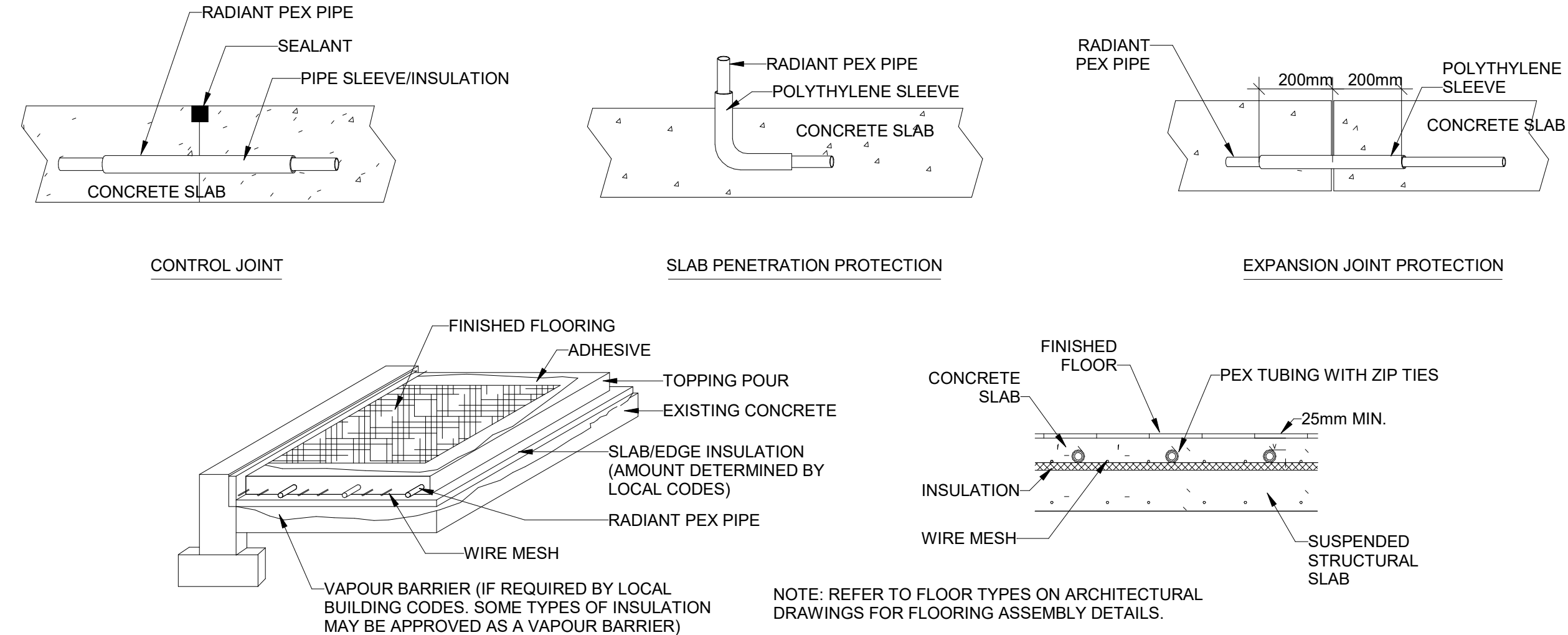
## CONDENSATE DRAIN TO FUNNEL FLOOR DRAIN

SCALE: 1 : 1



## CONDENSATE DRAIN CONNECTION TO SANITARY

SCALE: 1 : 1



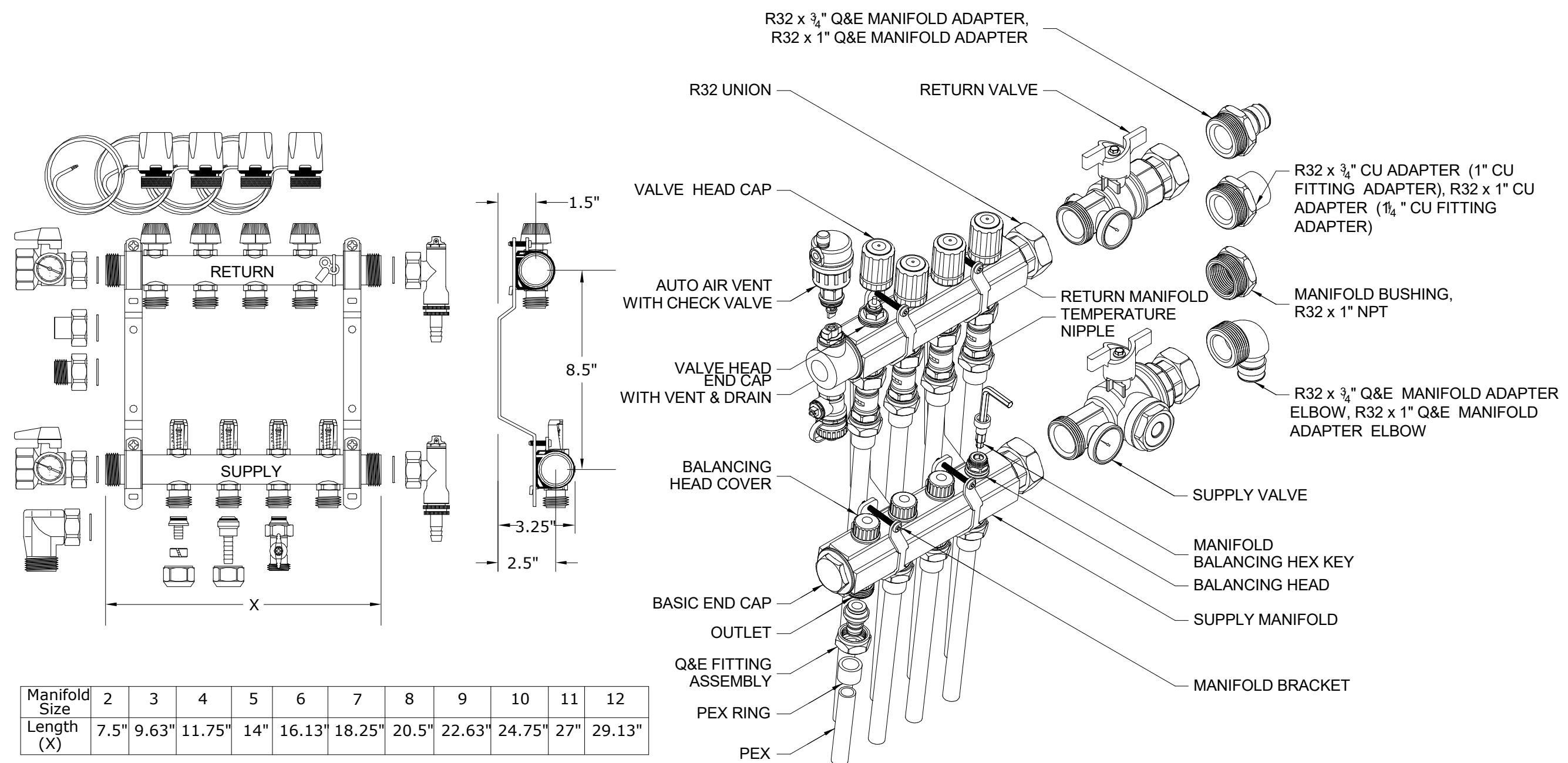
TOPPING POUR OVER EXISTING SLAB

OBSERVACIONES / NOTES:

- 1 PIPE TO BE 1/2" PEX WITH OXYGEN BARRIER
- 2 MANIFOLDS TO BE STAINLESS STEEL UNITS COMPLETE WITH SUPPLY & RETURN TRUNK ISOLATION VALVES & VENT PURGE ASSEMBLY
- 3 LOOP LENGTHS ON PLANS ARE APPROXIMATION ONLY. ACTUAL LOOP LENGTHS TO BE VERIFIED ON SITE BY INSTALLING CONTRACTOR.
- 4 RADIANT TUBING TO BE SPACED AT 225 MM ON CENTERS, EXCEPT WHERE NOTED ON THE LOOP SCHEDULE OR ON THE PLANS, AND NOT TO BE PLACED 150 MM TO 300 MM FROM EXTERIOR WALLS.
- 5 AVERAGE FLOOR SURFACE TEMPERATURE SHOULD NOT EXCEED 31°C. THIS WILL LIMIT THE MAXIMUM UPWARD OUTPUT TO 120 W/M<sup>2</sup> AT 20°C.
- 6 IF THE REQUIRED SURFACE TEMPERATURE EXCEEDS 31°C IT WILL BE NECESSARY TO REDUCE THE HEAT LOSS OR ADD SUPPLEMENTAL HEAT.
- 7 THE MINIMUM CONCRETE COVER SHALL BE 25MM ABOVE THE TOP OF THE PEX/NOX TUBING.
- 8 TUBING SHALL BE SLEEVED AT ALL CONTROL JOINT CROSSINGS (SEE ILLUSTRATIONS).
- 9 TUBING SHALL BE FASTENED EVERY 900 MM IN SLAB & EVERY 600 MM IN TOPPING POUR APPLICATIONS USING THE APPROPRIATE FASTENERS.
- 10 KEEP TUBING A MINIMUM OF 225 MM AWAY FROM ALL CLOSET FLANGES AND DRAIN TRAPS.
- 11 A MINIMUM R-5 INSULATION IS RECOMMENDED UNDER THE PERIMETER OF RADIANT HEATED SLAB.
- 12 THE SYSTEM SHALL BE PRESSURE TESTED PRIOR TO & DURING THE CONCRETE POUR TO AT LEAST TWO TIMES THE OPERATING PRESSURE OR 414 KPA WITH WATER OR AIR. PRESSURE TEST SHALL REMAIN ON DURING THE FINAL FLOOR INSTALLATION.
- 13 IF THE JOB SITE IS SUBJECT TO FREEZING DURING CONSTRUCTION A PROPYLENE GLYCOL/WATER SOLUTION, OF THE APPROPRIATE MIXTURE FOR THE LOCATION, SHALL BE USED TO PREVENT FREEZING.
- 14 UNLESS OTHERWISE INDICATED, PRESSURE DROPS SHOWN ON LOOP SCHEDULE INCLUDE PRESSURE DROPS FOR MANIFOLD & TUBING ONLY.

## IN-FLOOR HEATING INSTALLATION DETAILS

SCALE:N.T.S.



## IN-FLOOR HEATING SYSTEM MANIFOLD DETAIL

SCALE:N.T.S.

[illegible]

## Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: 1 : 1



Sheet  
Title:

## MECHANICAL TYPICAL DETAILS VIII

Drawing  
No. **M-807**

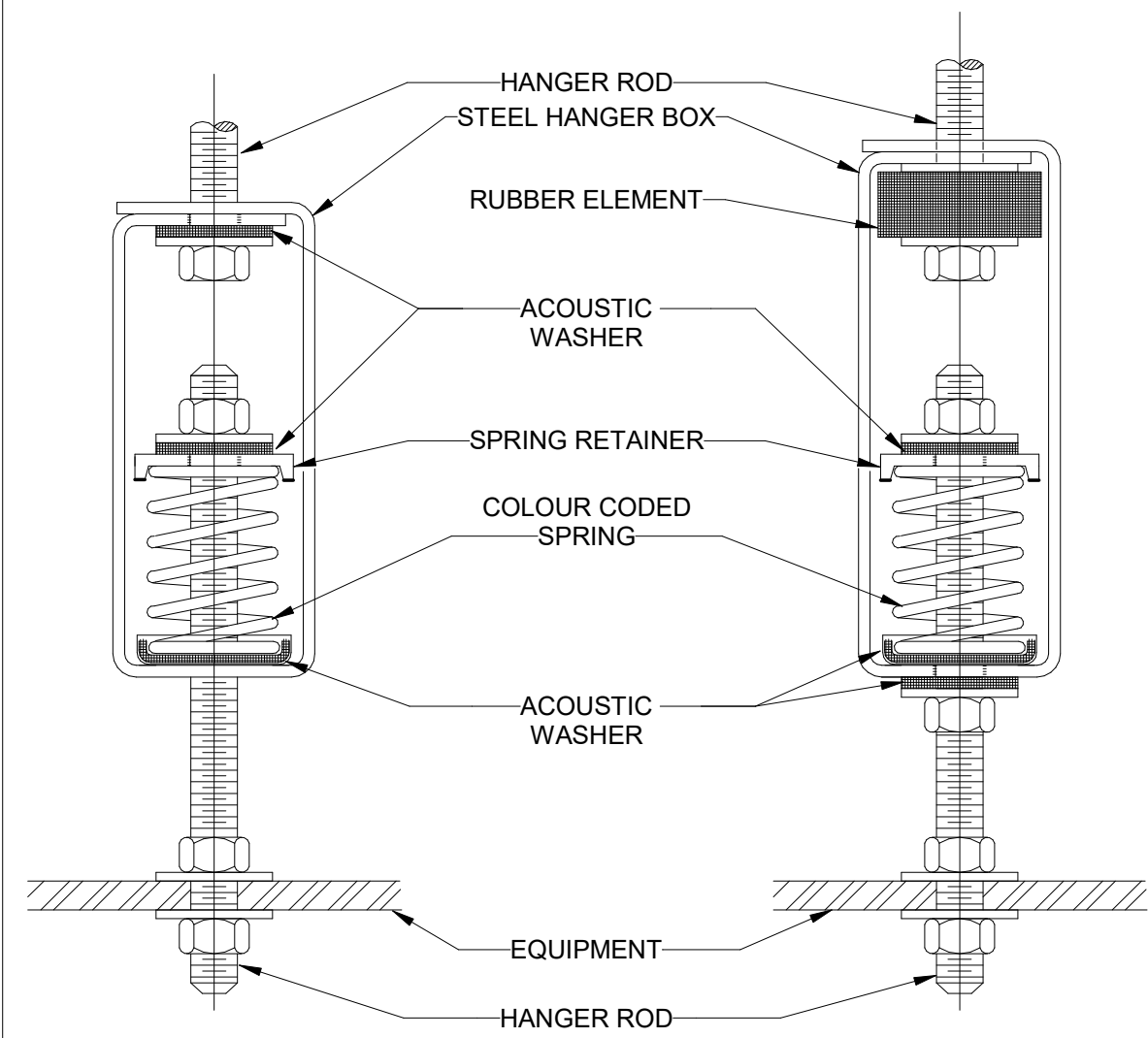


250 ROWNTREE DAIRY RD, WOODBRIDGE, ON  
TEL: 905-507-0800  
WEB: WWW.QUASARCG.COM

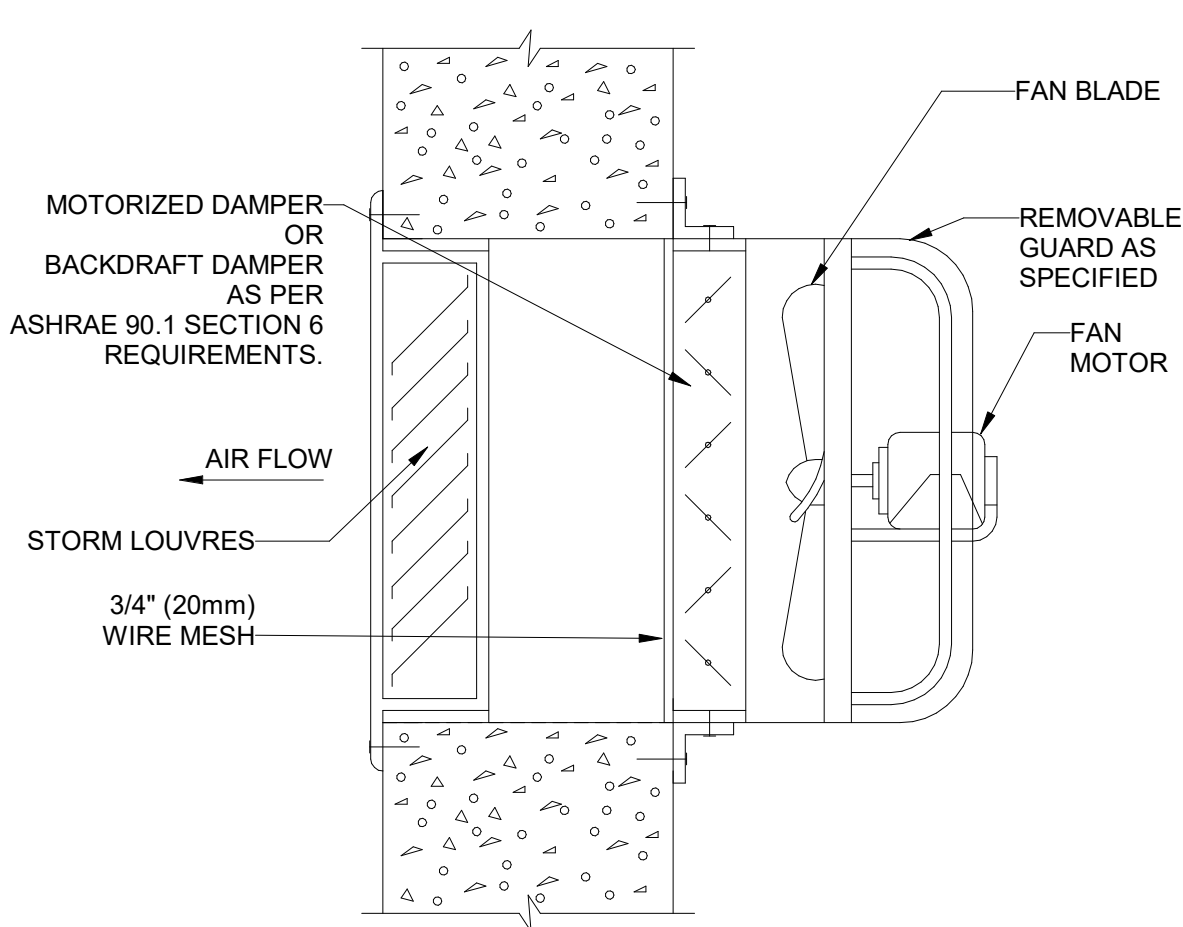
YORK REGIONAL POLICE  
HELICOPTER HANGAR

88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

Key  
Plan

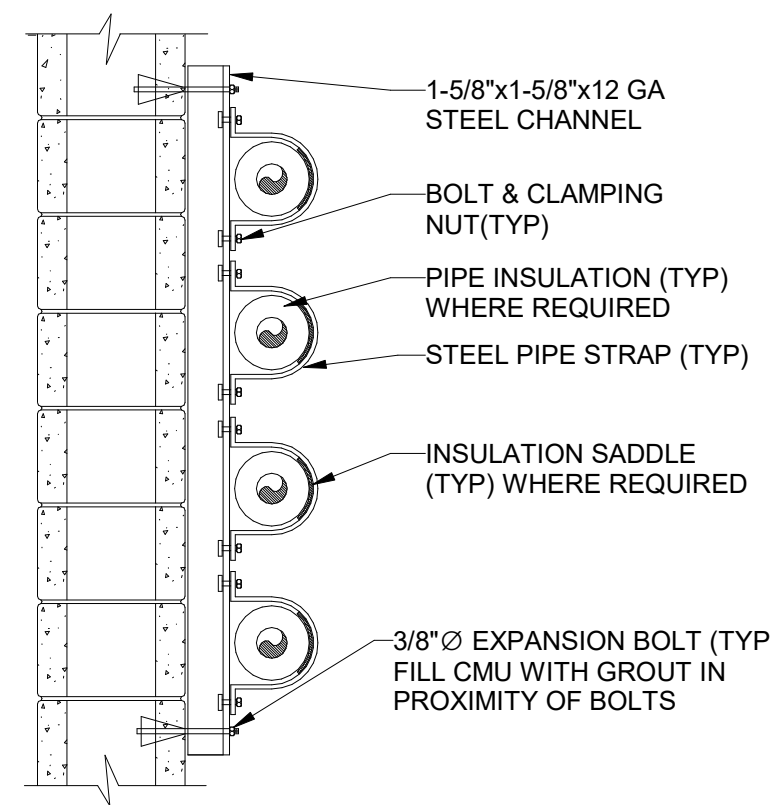


6 SPRING HANGER  
SCALE: N.T.S.

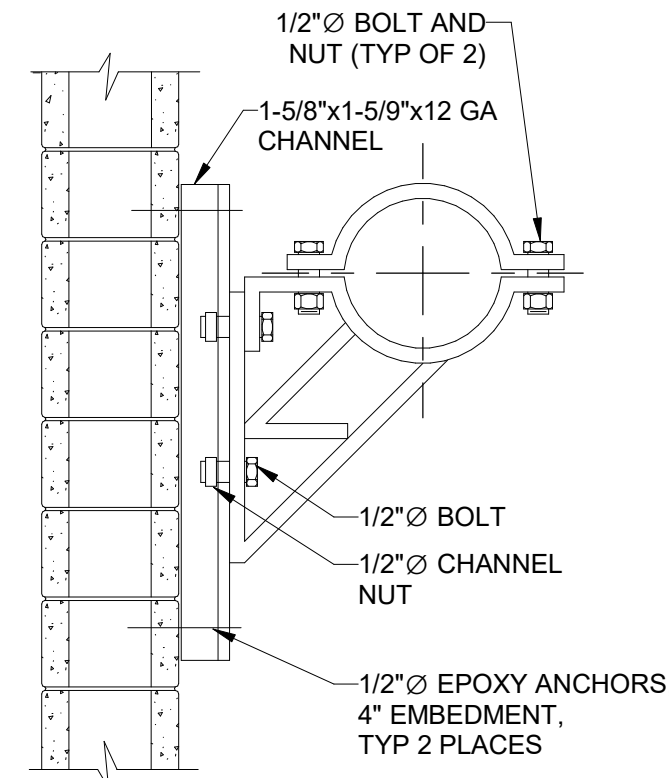


NOTES :  
1 SEE FLOOR PLANS FOR STORM LOUVRE REQUIREMENTS.  
2 WHERE DUCTWORK IS PROVIDED (SEE FLOOR PLANS), PROVIDE ACCESS DOOR FOR FAN AND MOTOR SERVICING.

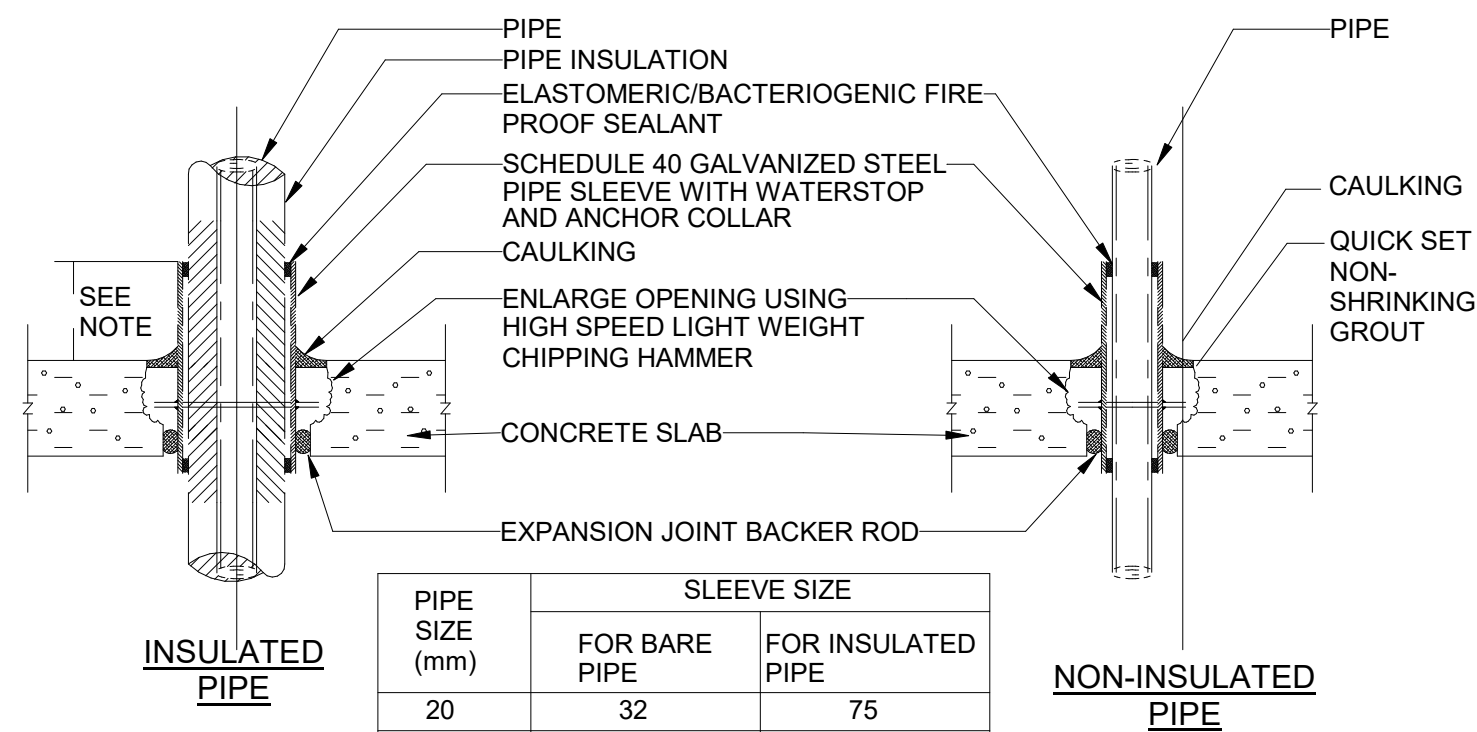
5 WALL MOUNTED EXHAUST FAN  
SCALE: N.T.S.



4 PIPE SUPPORT ON SIDEWALL  
SCALE: N.T.S.



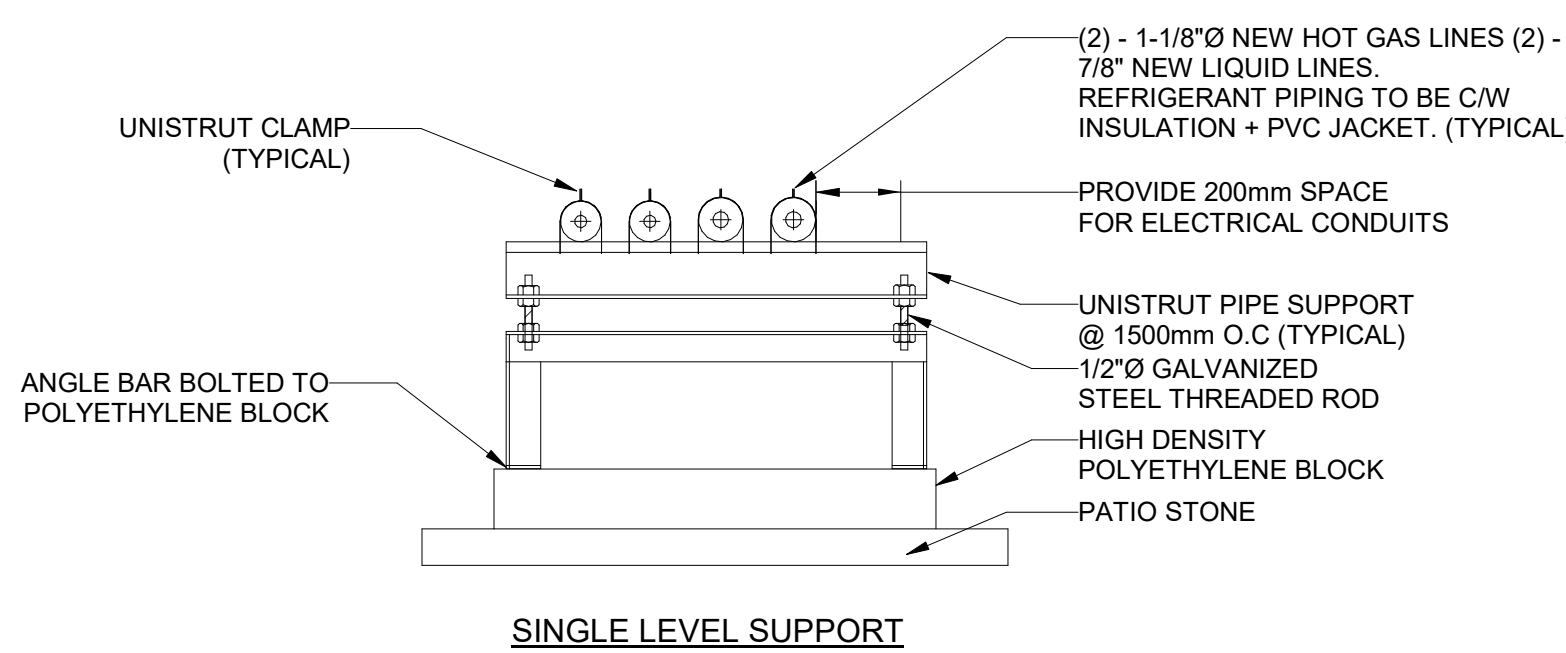
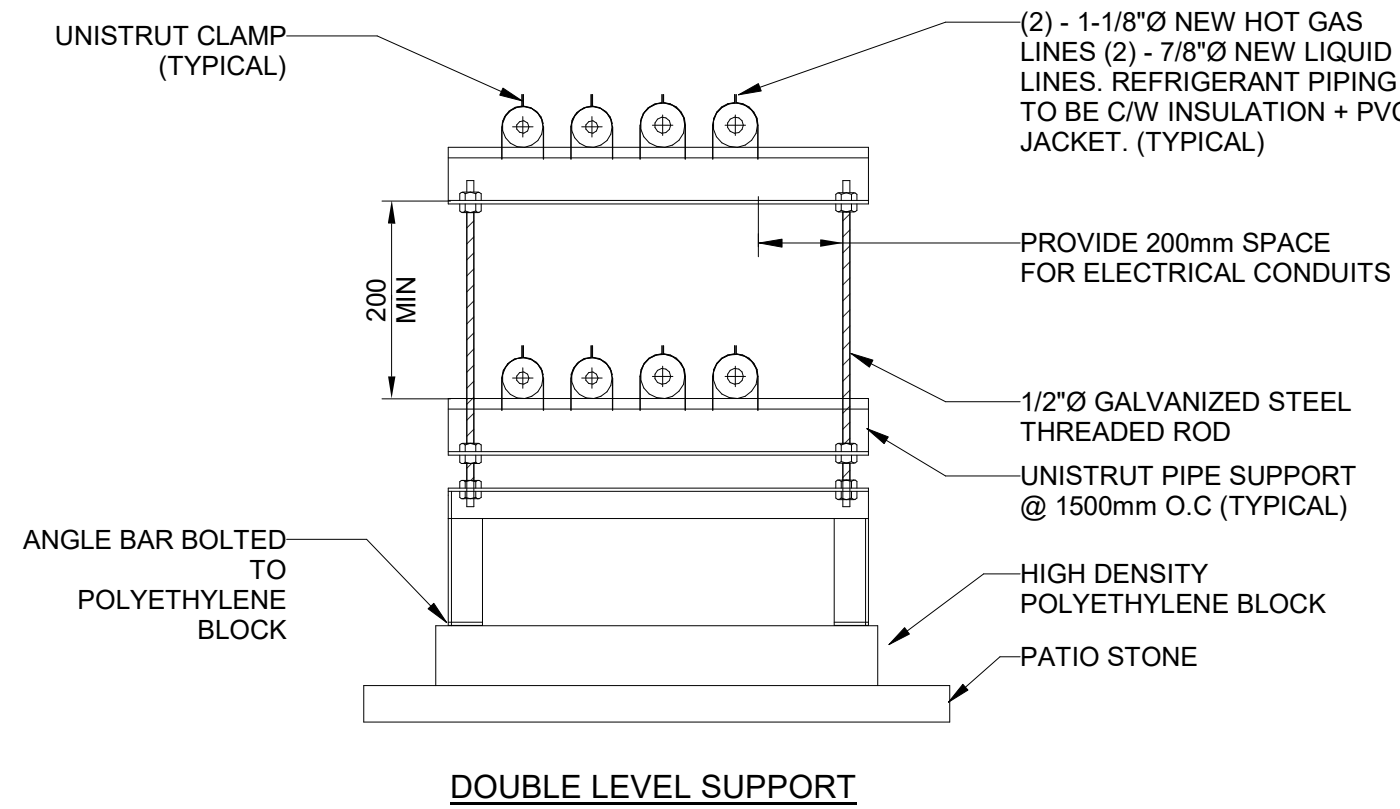
3 PIPE SUPPORT ON SIDEWALL-SINGLE  
SCALE: N.T.S.



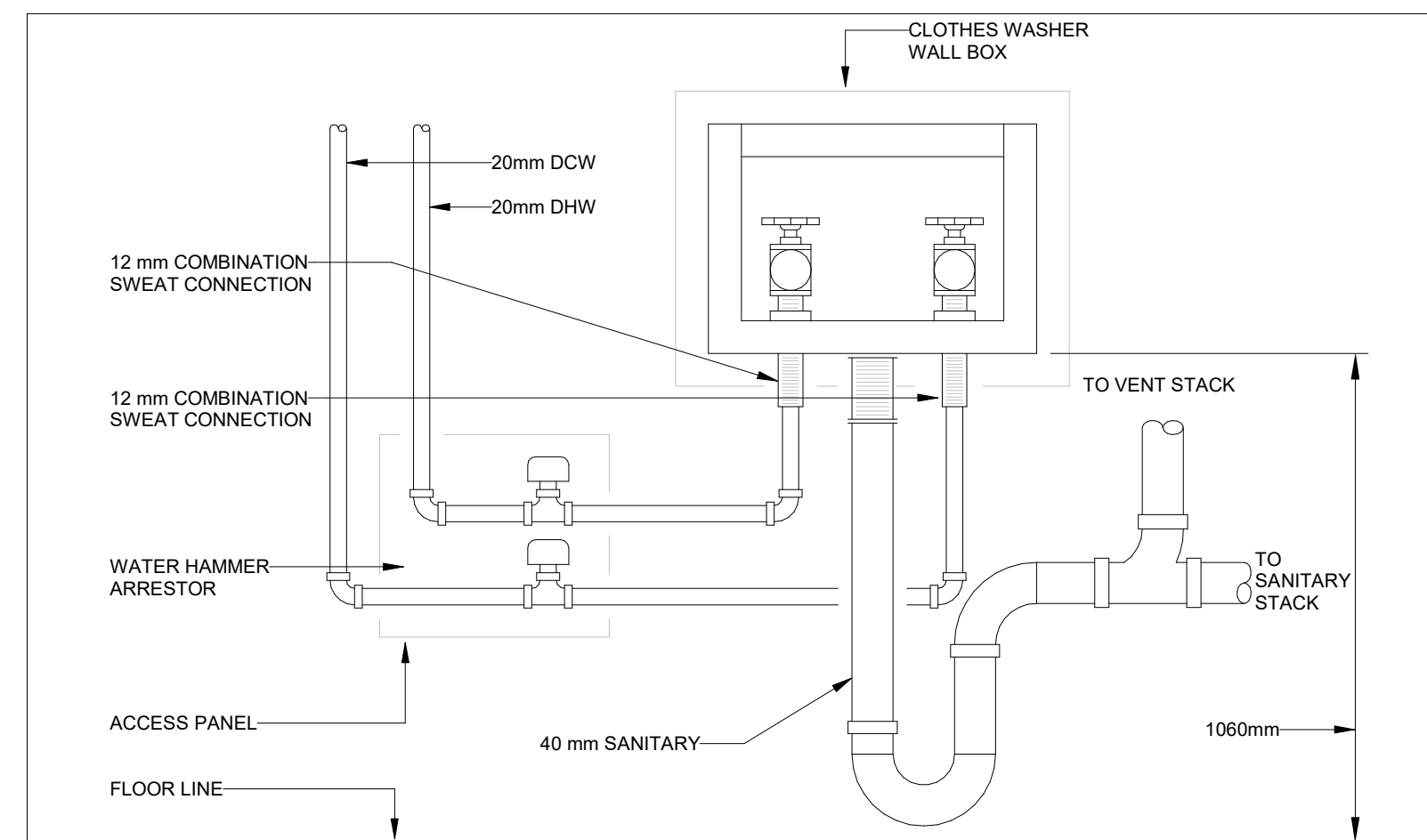
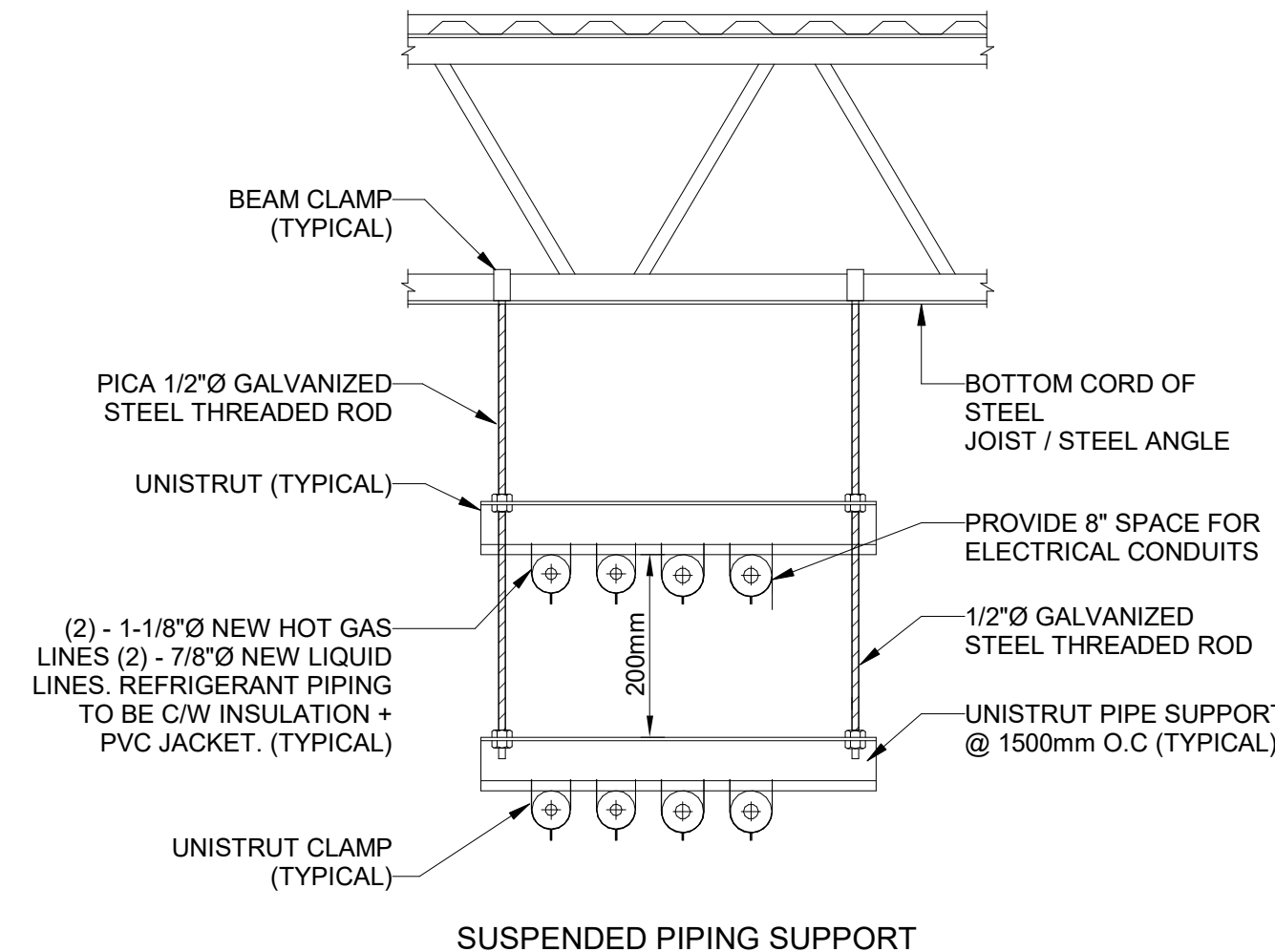
NOTE:  
100mm HIGH WHERE  
THERE IS A POSSIBILITY  
OF WATER ON FLOOR,  
50mm HIGH WHERE  
WATER IS NOT PRESENT.

PIPE SIZE (mm)	SLEEVE SIZE	
	FOR BARE PIPE	FOR INSULATED PIPE
20	32	75
25	38	100
32	50	100
38	50	100
50	75	150
75	100	150
100	150	200
150	200	250
200	250	300

2 PIPE SLEEVE THROUGH SLAB DETAIL  
SCALE: N.T.S.



1 REFRIGERANT PIPING SUPPORT DETAILS  
SCALE: N.T.S.



7 LAUNDRY BOX  
SCALE: N.T.S.

NO.	ISSUED	DATE
7	ISSUED FOR CONSTRUCTION	2025-09-05
6	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
5	ISSUED FOR PROGRESS	2025-05-02
4	RE-ISSUED FOR SITE PLAN APPROVAL	2025-04-25
3	ISSUED FOR ADDENDUM 10	2024-10-15
2	ISSUED FOR TENDER	2024-09-09
1	ISSUED FOR BUILDING PERMIT	2024-07-31

Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated



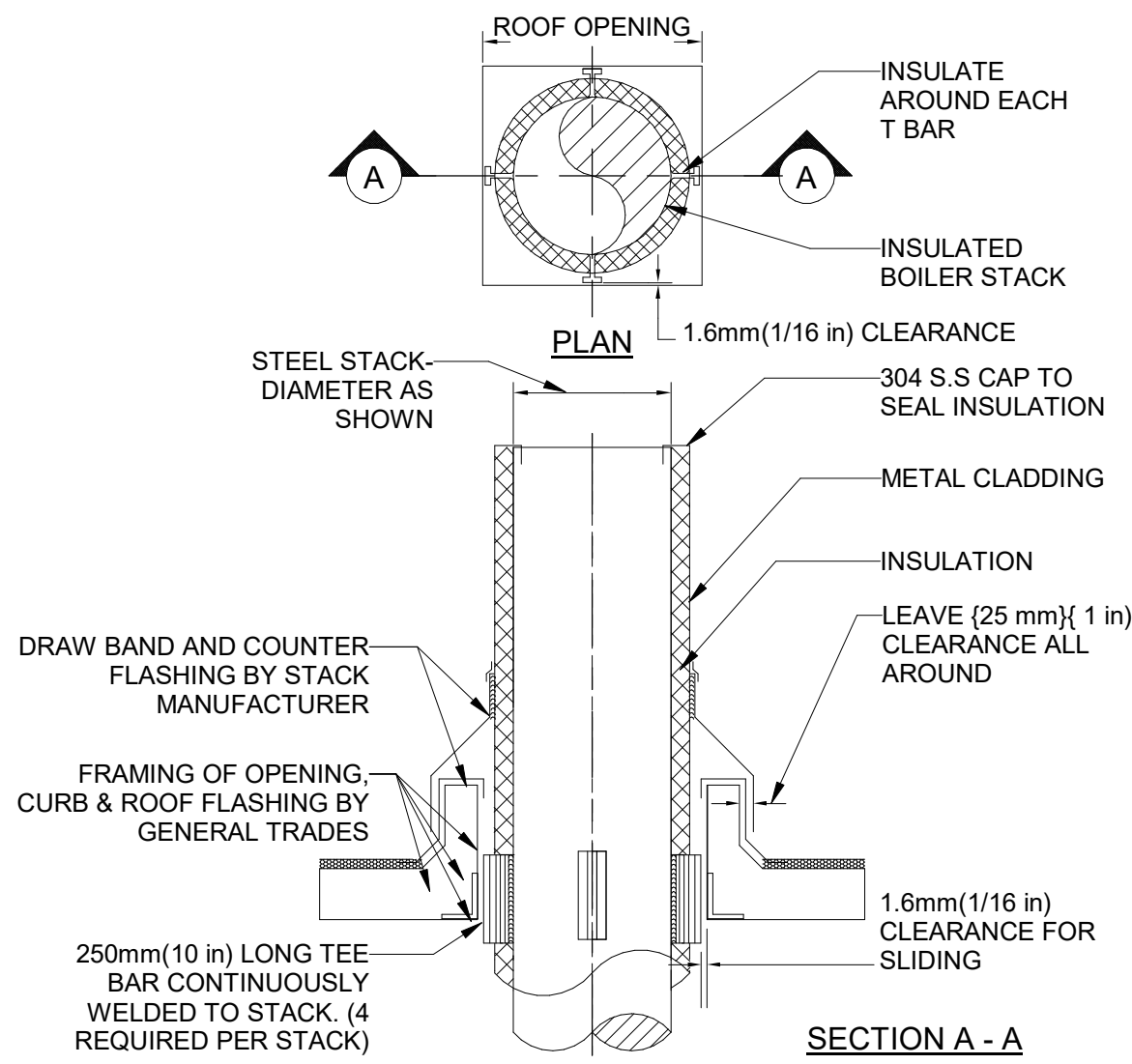
MECHANICAL TYPICAL  
DETAILS IX

Drawing  
No. M-808

# YORK REGIONAL POLICE HELICOPTER HANGAR

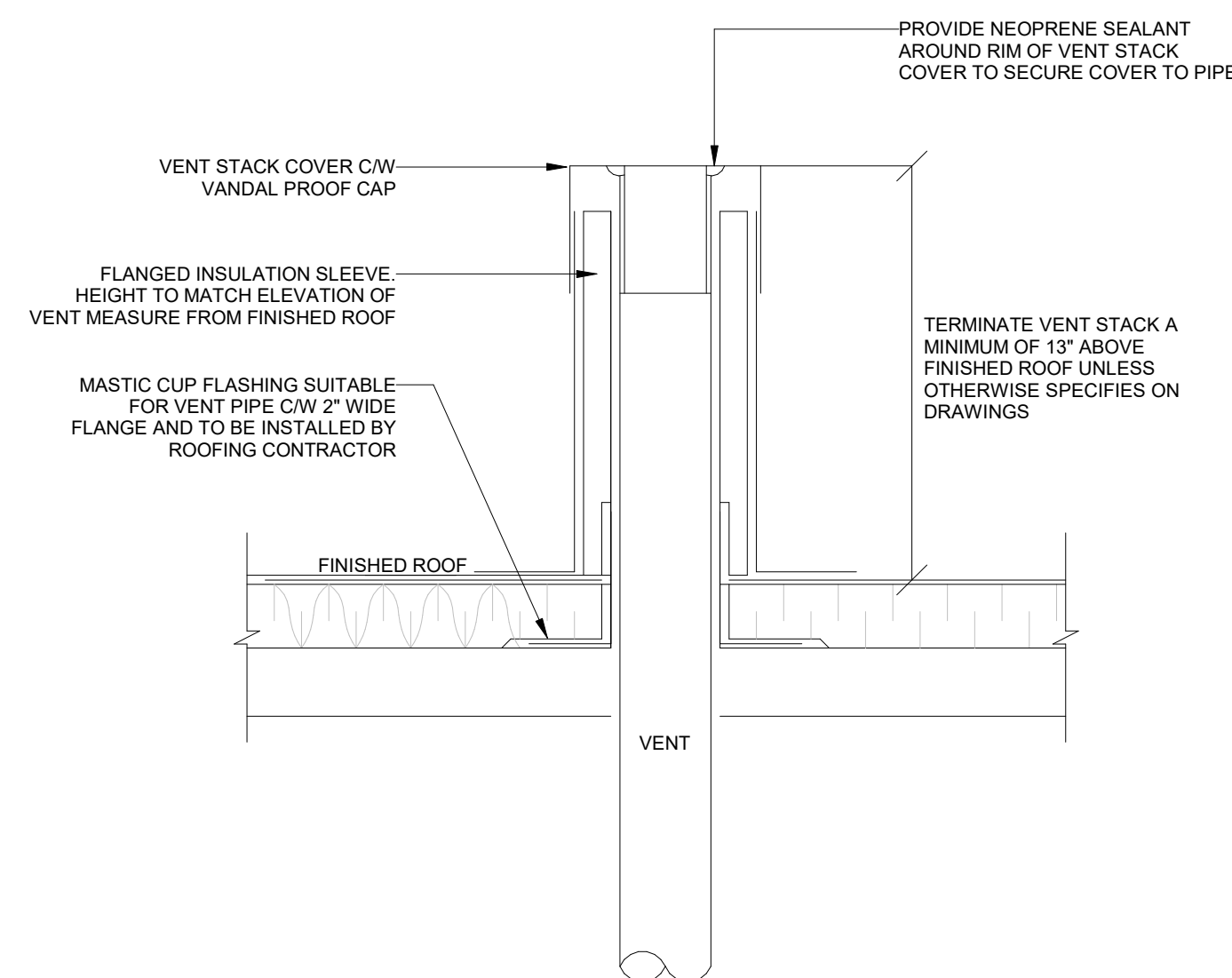
88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

### Key Plan



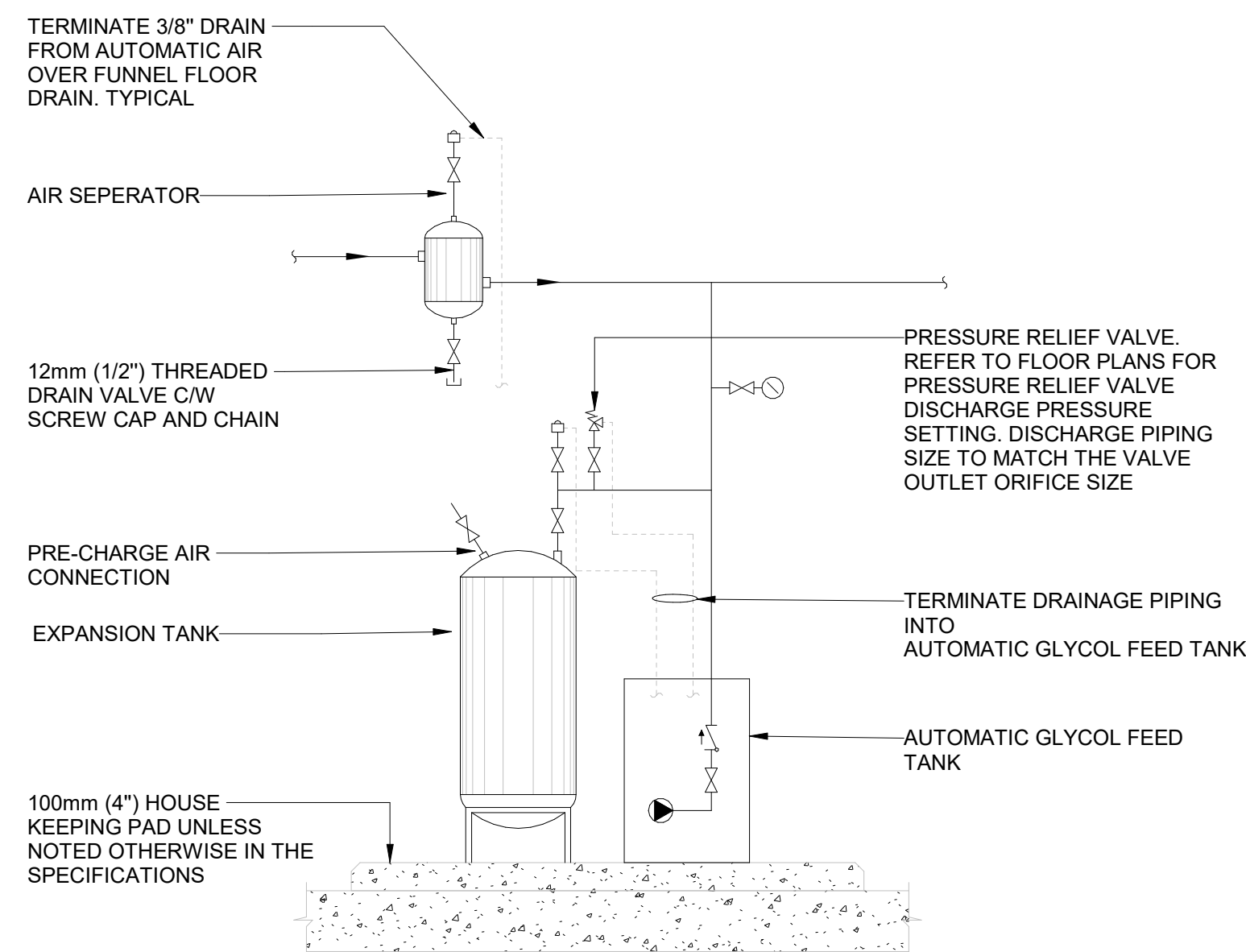
## BOILER STACK THRU. ROOF

SCALE:N.T.S.



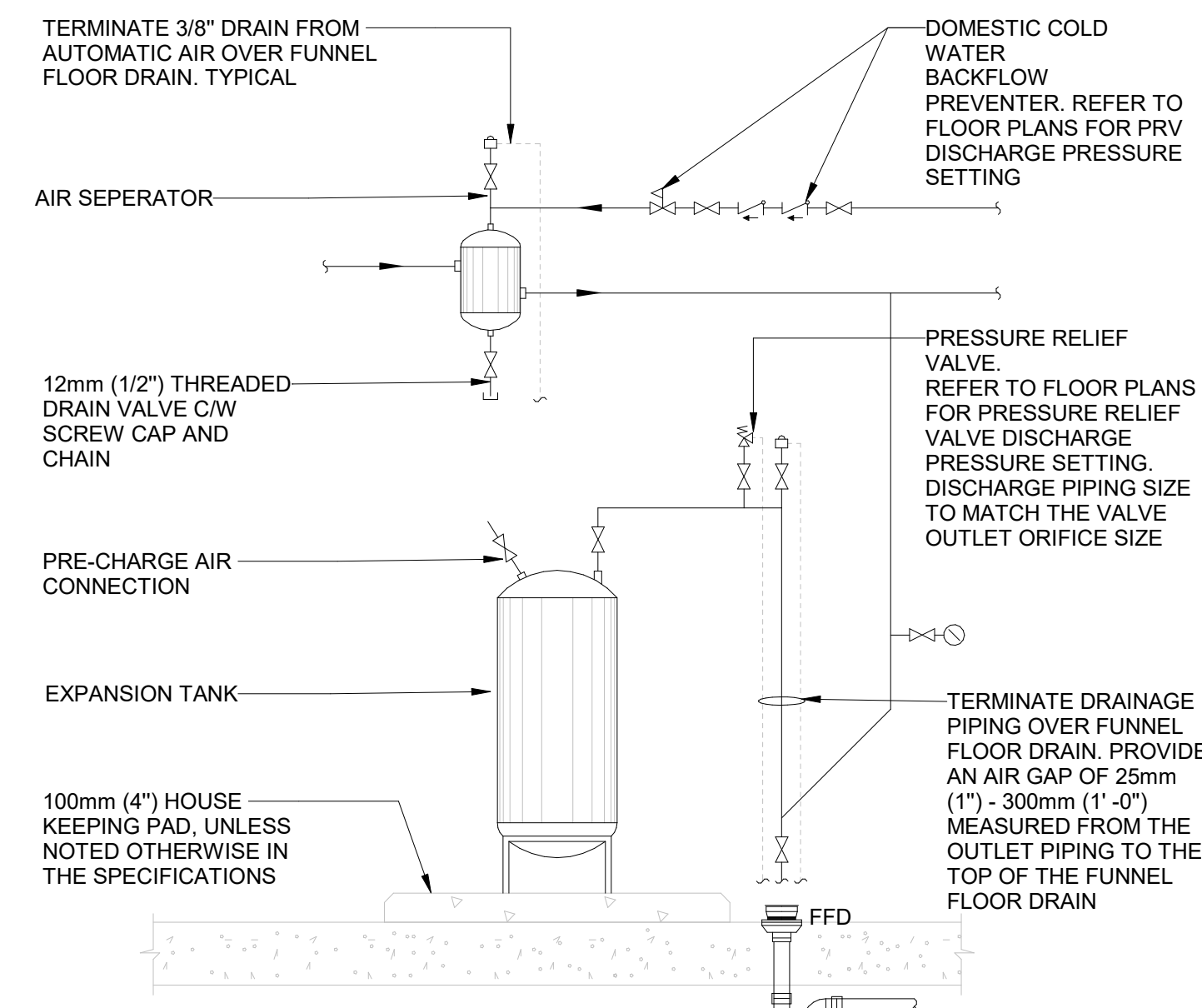
## PLUMBING VENT ROOF PENETRATION

SCALE:N.T.S.



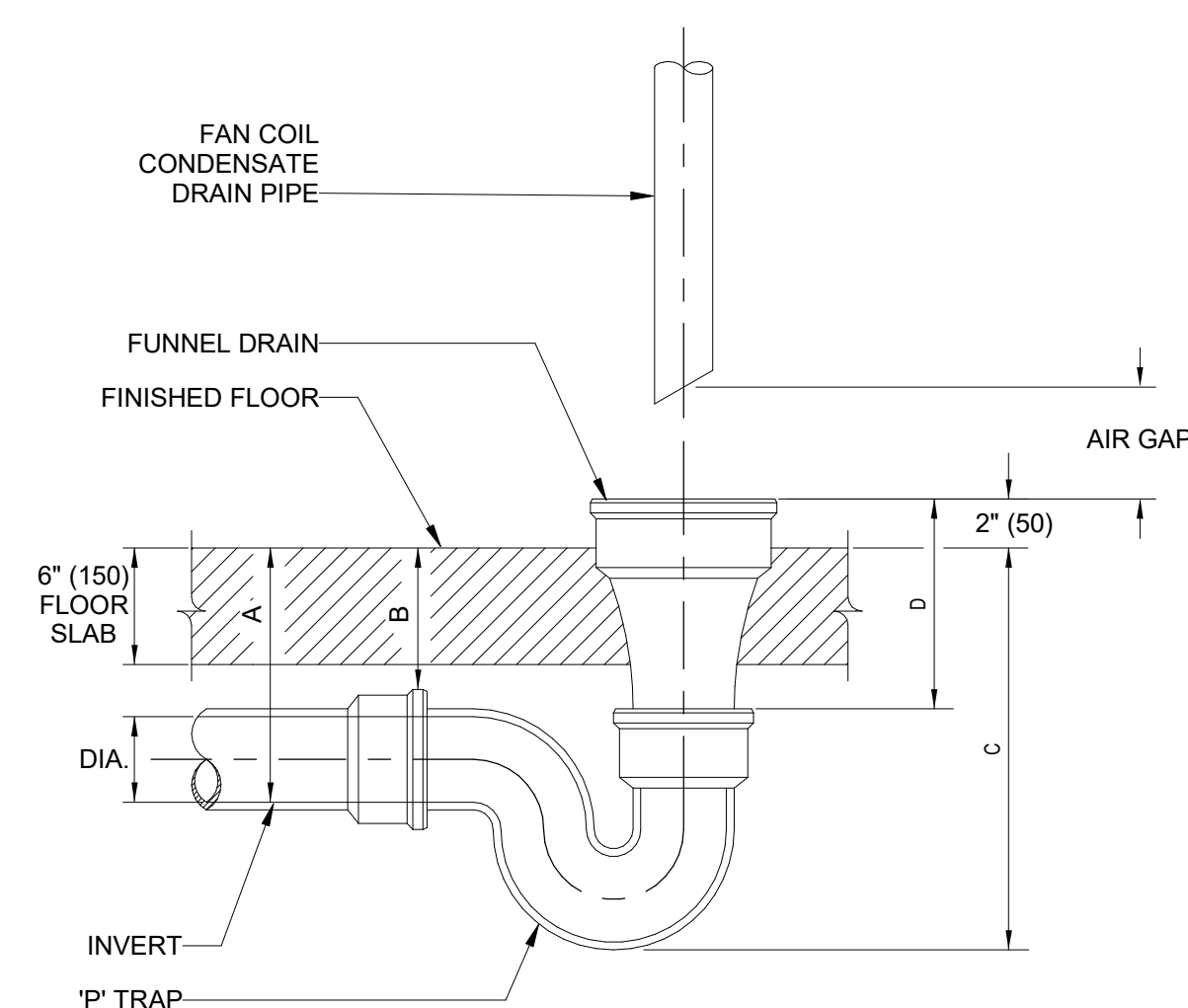
## AIR SEPARATOR & EXPANSION TANK - GLYCOL

SCALE:N.T.S.



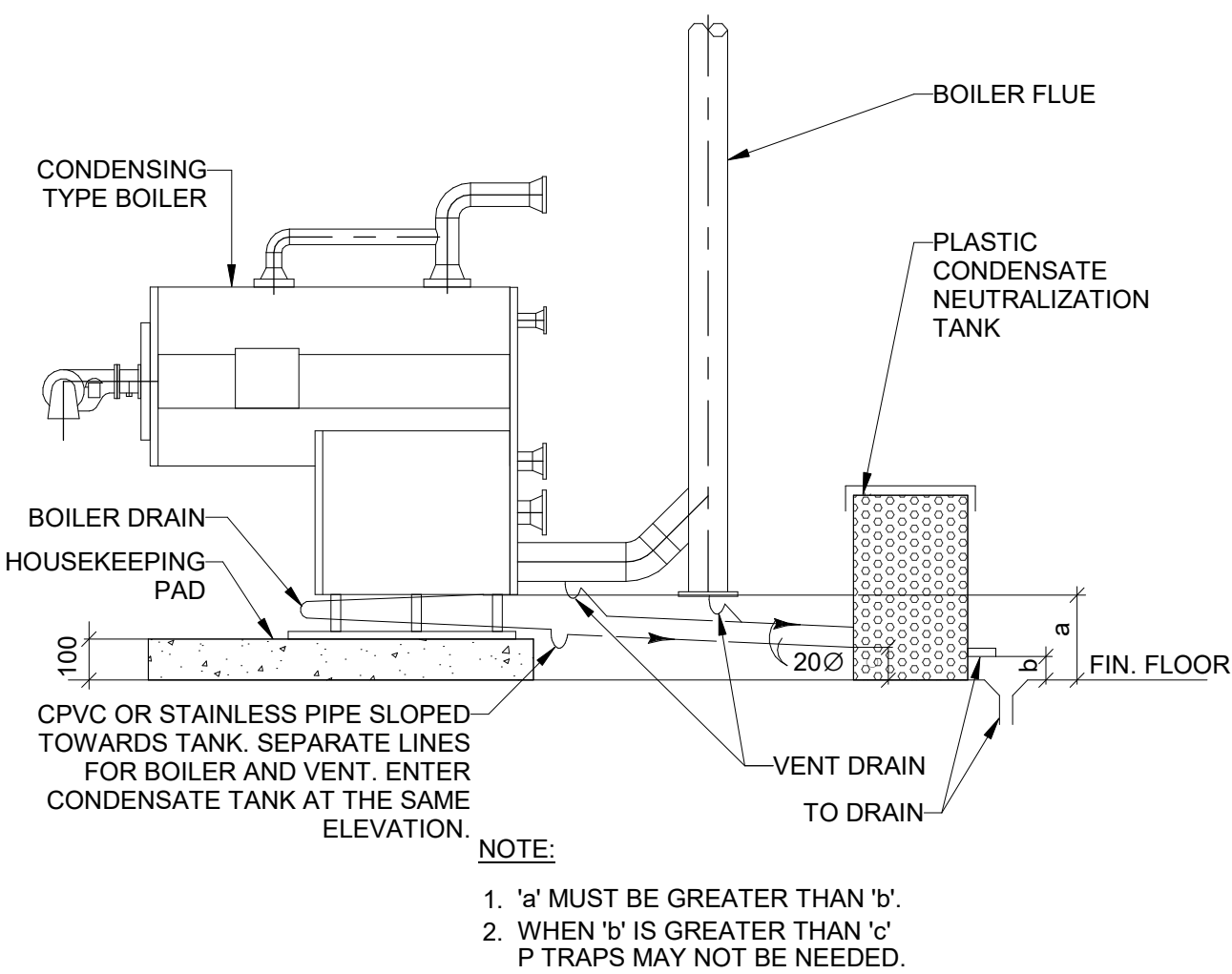
### AIR SEPARATOR & EXPANSION TANK - WATER

SCALE:N.T.S.



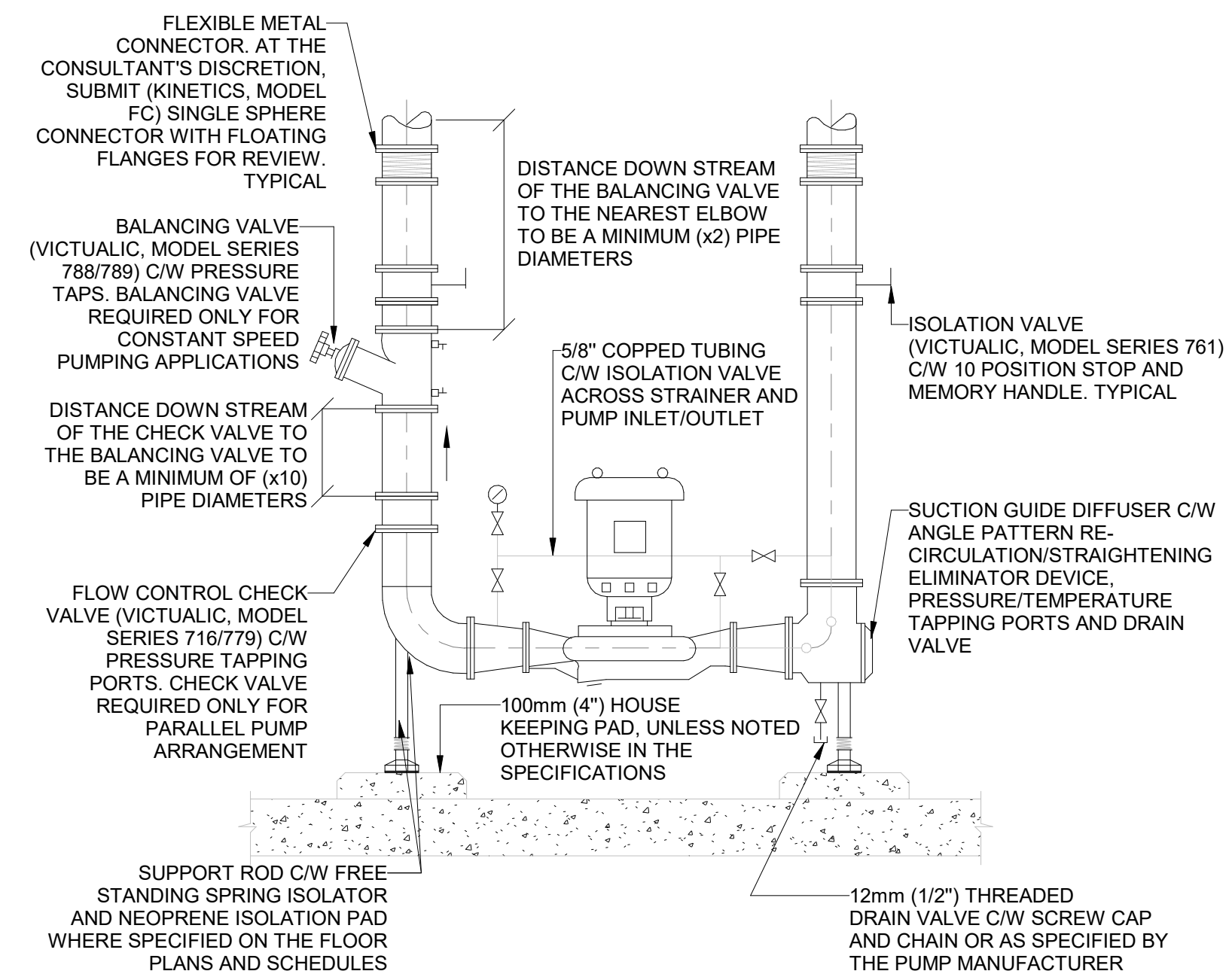
A/C UNIT CONDENSATE DRAIN

SCALE:N.T.S.



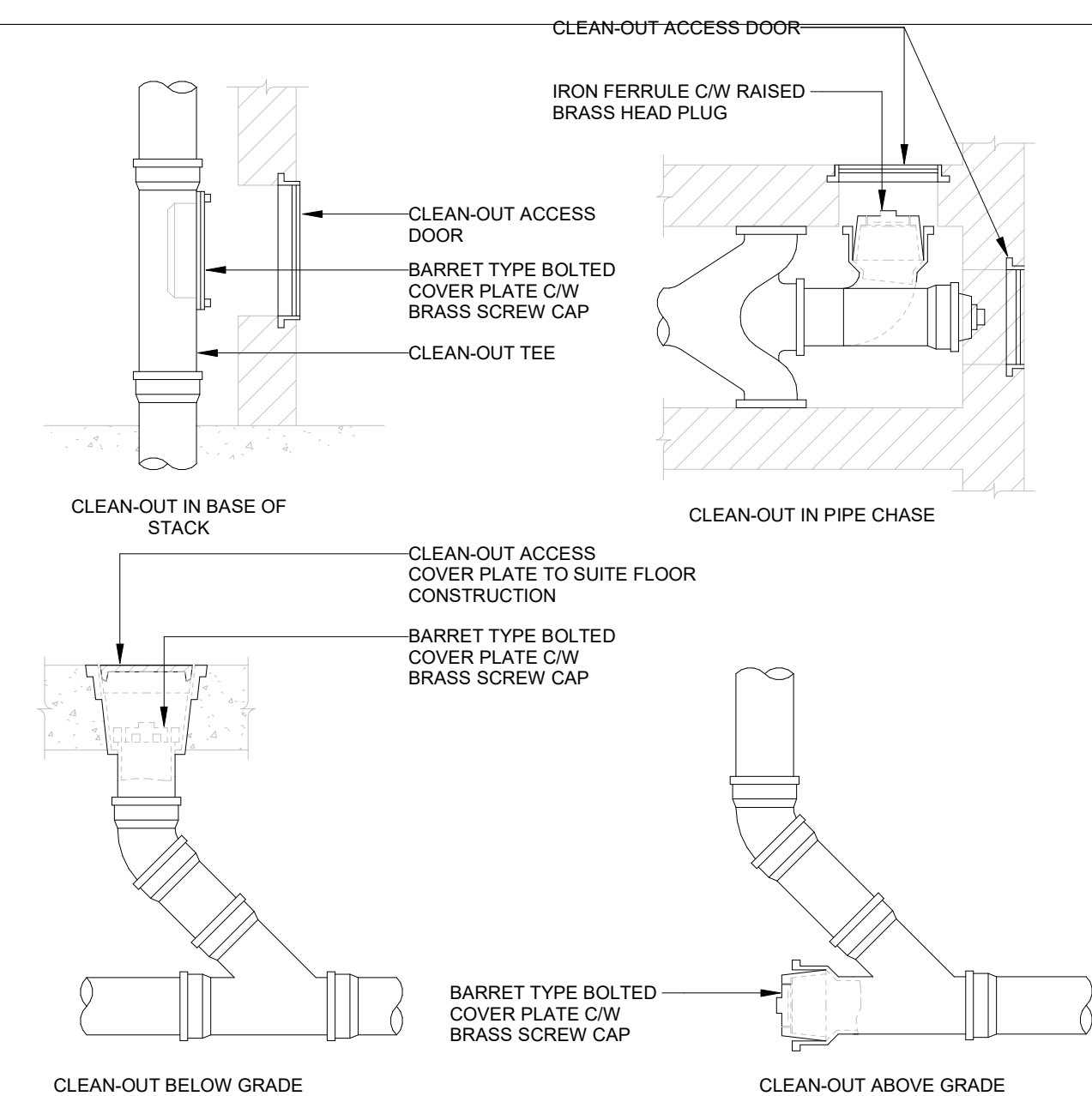
## CONDENSING BOILER c/w NEUTRALIZATION

SCALE:N.T.S.



## VERTICAL INLINE PUMP

SCALE:N.T.S.



## SANITARY & STORM WATER CLEANOUTS

SCALE:N.T.S.

[illegible]

## Issues

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Do not scale drawings

Drawn by: Fizzah Khan/ Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated

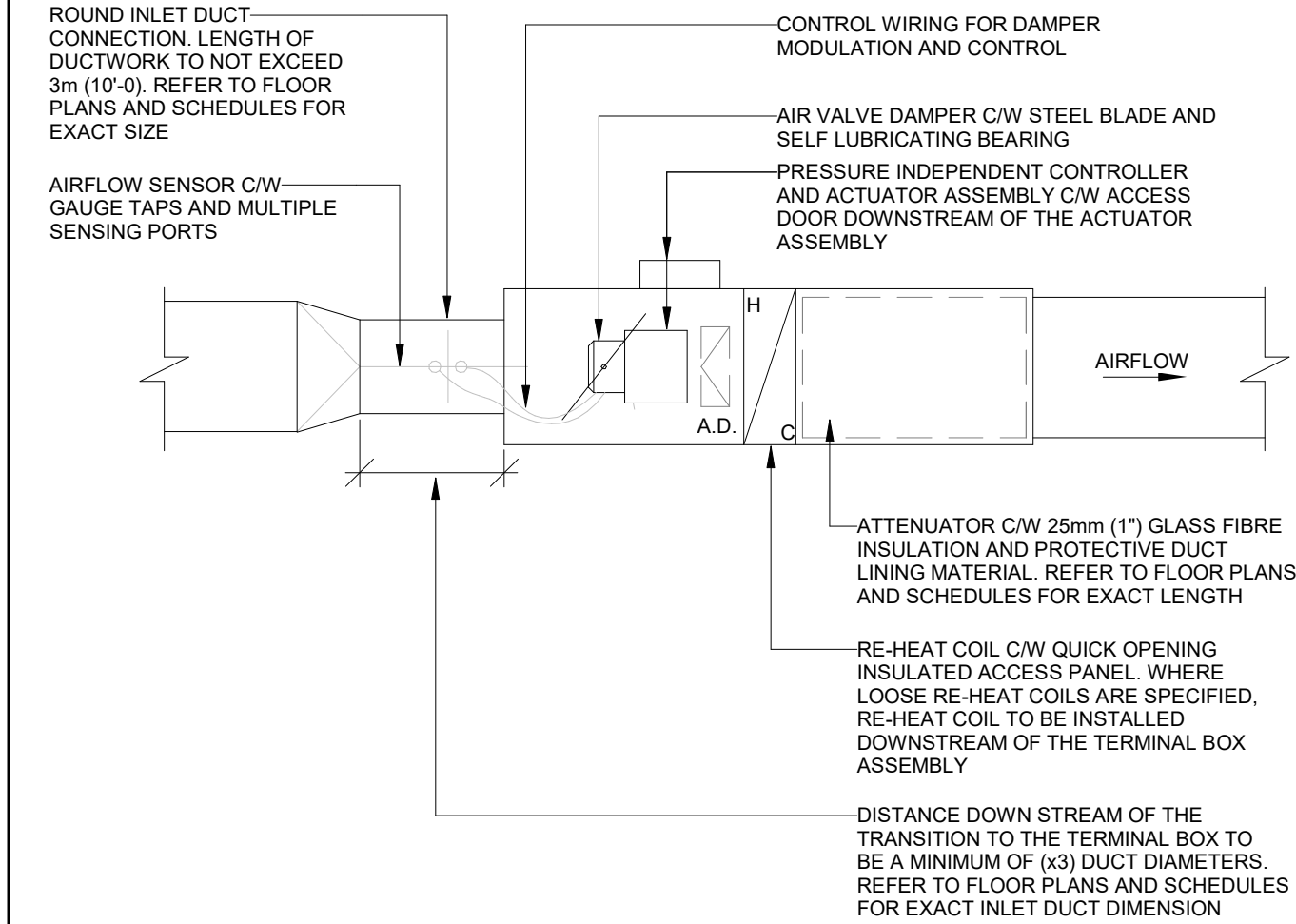


Sheet  
Title:

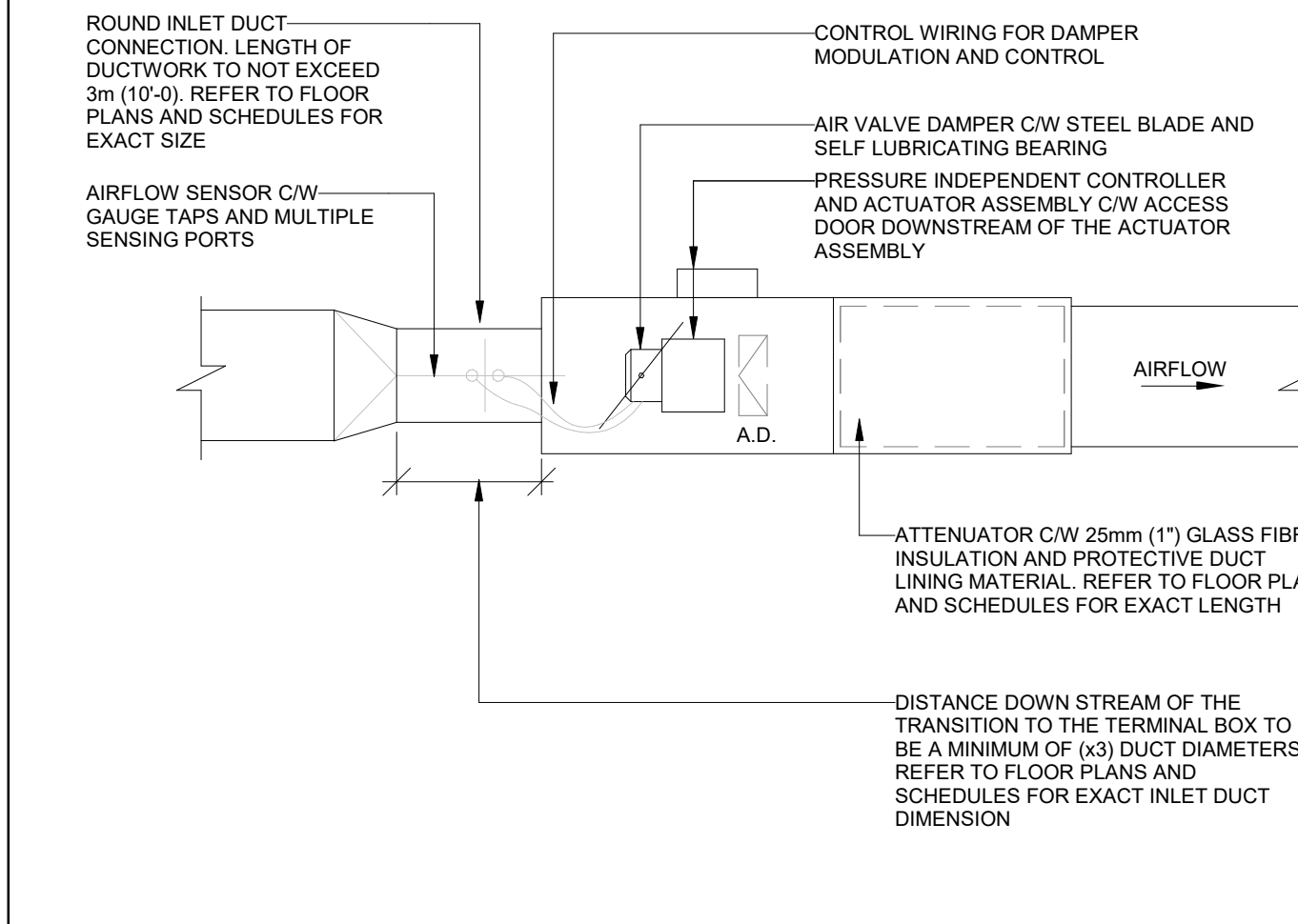
## MECHANICAL TYPICAL DETAILS X

Drawing  
No.  
**M-809**

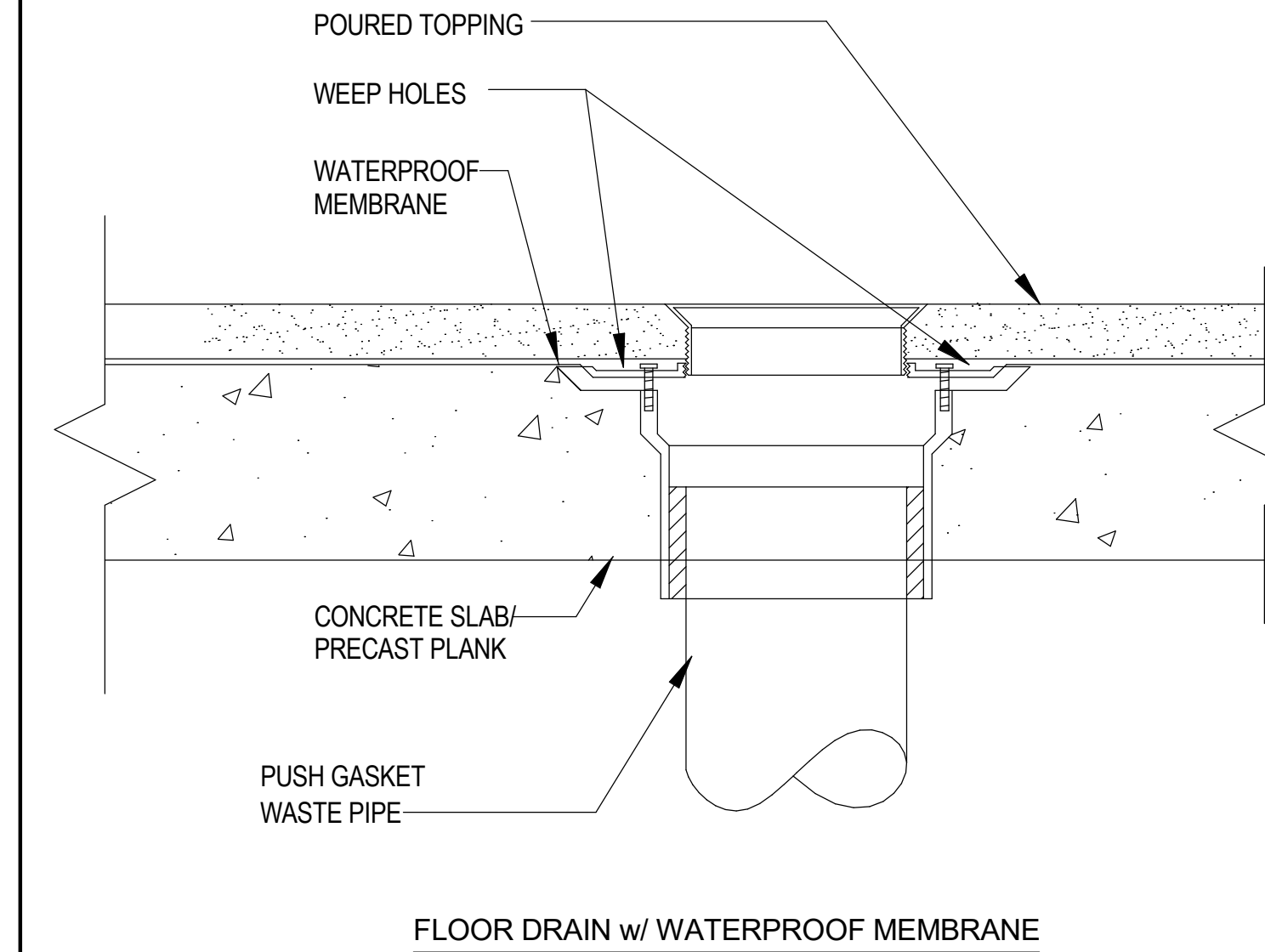




2 SCALE:N.T.S.



3 SCALE:N.T.S.



1 SCALE:N.T.S.

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88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

## Key Plan

7	ISSUED FOR CONSTRUCTION	2025-09-05
6	RE-ISSUED FOR BUILDING PERMIT	2025-05-09
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NO.	ISSUED	DATE

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Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: As indicated



Sheet  
Title:  
**MECHANICAL TYPICAL  
DETAILS XI**

Drawing  
No. **M-810**

ROOFTOP UNITS																												NOTES
TAG	MANUFACTURER	MODEL	LOCATION	SERVICE	AIRFLOW		GAS HEATING PERFORMANCE				COOLING PERFORMANCE					SUPPLY AIR BLOWER PERFORMANCE					FILTER S	SOUND POWER (dBA)	VFD	ELECTRICAL			WEIGH T (kg)	
					TOTAL AIRFLOW (L/S)	OUTDOO R AIRFLOW (L/S)	ENT.DB TEMP (DEG C)	HEATING OUTPUT CAPACITY (KW)	LEAVING DB TEMP (DEG C)	TEMP RISE (DEG C)	TOTAL GROSS CAPACIT Y (KW)	SENSIBLE GROSS CAPACITY (KW)	AMB. DB TEMP (DEG C)	ENTERING DB TEMP (DEG C)	UNIT LEAVING DB TEMP (DEG C)	REFRIGER ANT	TYPE	BHP OF MOTOR (HP)	E.S.P.WITH ADDITIONAL LOSSES (IWG)	BLOWER SPEED (RPM)				MCA	MOCp	V/Ph/Hz		
RTU-1	JOHNSON CONTROLS	KJ078N 18E22BB BCD2A1	ROOF	OFFICE	1227	368	17.5	42.8	46.4	28.9	24.1	16.9	31.7	24.5	13.9	R-454B	BELT	1.73	0.78	871	2 IN. MERV 8	83	YES	32.6	40	230/3/60	556	THE ROOF CURBS SUPPLIED BY THE MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR.
RTU-2	JOHNSON CONTROLS	KJ120N2 4R5BBBC D2A1	ROOF	HANGAR	1652	496	18.1	56.9	46.7	10.7	36.4	25.5	31.7	24.4	12.7	R-454B	BELT	3.45	1.43	1146	2 IN. MERV 8	89	YES	21.7	25	575/60/3	578	THE ROOF CURBS SUPPLIED BY THE MANUFACTURER AND INSTALLED BY THE MECHANICAL CONTRACTOR.

EXHAUST FANS																				
TAG	MANUFACTURER	MODEL	SERVICE	AIRFLOW (L/S)	SOUND POWER							E.S.P (PA)	MOTOR CHARACTERISTICS						WEIGHT (KG)	NOTES
					63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ		FAN SPEED (RPM)	BHP	FLA	MOCp	V/PH/HZ			
EF-1	BROAN	L400L	RPAS/EX. STG	100								124.42	775				120 VAC	15.4		
EF-2	CANARM HVAC	DSQ-B-12	VEHICLE BAY	250	66	63	63	59	59	58	53	124.42	1070	0.11			230/1/60	33		
EF-3	CANARM HVAC	GSQ105-D-V	SHR 1, SHR 2, WASHROOMS, JANITOR	144	69	66	63	64	60	56	52	124.42	1249	0.07			230/1/60	28.1		
EF-4	CANARM HVAC	GSQ105-D-V	UNIVERSAL WASHROOM	72	67	64	61	61	57	54	50	124.42	1184	0.04			230/1/60	28.1		
EF-5	CANARM HVAC	GSQ105-D-V	MECH/ELEC ROOM	120	68	65	62	62	58	55	51	124.42	1202	0.06			230/1/60	28		
EF-6	CANARM HVAC	DSQ-B-10	PAINT ROOM	50	68	65	62	62	58	55	51	124.42	1200	0.06			230/1/60	28	Explosion proof	

FAN COIL UNIT																										
TAG	ASSOCIATED CONDENSER	MANUFACTURER	MODEL	TYPE	SERVICE	REFRIGERANT	AIRFLOW (L/S)	AIRFLOW (L/S)	AIRFLOW (L/S)	AIRFLOW (L/S)	COOLING					HEATING			SOUND (DBA)		ELECTRICAL			WEIGHT (kg)	NOTES	
							LOW SPEED	MEDIUM SPEED	HIGH SPEED	E.S.P (Pa)	TOTAL CAPACITY (KW)	SENSIBLE CAPACITY (KW)	SET POINT DB (°C)	SET POINT WB (°C)	S.A.T. DB (°C)	S.A.T. WB (°C)	CAPACITY (KW)	SET POINT DB (°C)	S.A.T. DB (°C)	PRESSURE (HMM)	POWER (W)	MCA	MOCp			VPh/Hz
FCU-1	ODU-1	DAIKIN	FTX24WVJU8R	WALL MOUNTED, NON-DUCTED	IT ROOM	R-410A	165	233	303	0.00	6.21	4.62	24.0	19.4	12.8	12.2	7.03	18.0	29.4	5144/37	78	9.2	15	208/160	14.96	

TANKLESS ELECTRIC WATER HEATER													
TAG	QUANTITY	MANUFACTURER	MODEL	SERVICE		FLUID			ELECTRICAL			WEIGHT (kg)	REMARKS
					OUTPUT CAPACITY (KW)	TYPE	FLOW RATE (L/S)	TEMP. RISE (C)	MCA (A)	MOCP (A)	V/Ph/Hz		
TLWH-1	1	RHEEM	RETEX-04	LAVATORY	3.5	WATER	0.03	8.9	29	30	120/1/60	2.0	
TLWH-2	1	RHEEM	RETEX-11	KITCHEN	11.8	WATER	0.09	10	46	50	240/1/60	3.9	
TLWH-3	1	RHEEM	RETEX-13	SHOWER	13.0	WATER	0.13	6.7	54	60	240/1/60	3.9	
TLWH-4	1	RHEEM	RETEX-11	LAVATORY/JAN.SINK	11.8	WATER	0.09	10	46	50	240/1/60	3.9	
TLWH-5	1	RHEEM	RETEX-13	SHOWER	13.0	WATER	0.13	6.7	54	50	240/1/60	3.9	

BOILER																
TAG	MANUFACTURER	MODEL	LOCATION	GAS				FLUID				ELECTRICAL			WEIGHT (kg)	REMARKS
				OUPUT CAPACITY (KW)	BOILER EFF (%)	MIN GAS PRES. (IN)	MAX GAS PRES. (IN)	TYPE	FLOW RATE (GPM)	E.F.T (F)	L.F.T (F)	MCA	MOCp	V/Phz		
B-1	NTI	FTG 1400	MECH RM	394	96	7	14	40% GLYCOL	130	120	95	12	15	120/1/60	680	
B-2	NTI	FTG 1400	MECH RM	394	96	7	14	40% GLYCOL	130	120	95	12	15	120/1/60	680	

ELECTRIC UNIT HEATER												
TAG	MANUFACTURER	MODEL	LOCATION	MOUNTING CONFIGURATION	HEATING CAPACITY (kW)	AIRFLOW (L/s)	TEMP RISE	MOTOR HP	FAN RPM	ELECTRICAL V/Ph/Hz	WEIGHT (kg)	NOTES
UH-1	OUELLET	OAS03008	VEHICLE BAY	CEILING SUSPENDED	2.30	83	7	0.030	1550	208/1/60	20.0	
UH-2	OUELLET	OAS03008	VEHICLE BAY	CEILING SUSPENDED	2.30	83	7	0.030	1550	208/1/60	20.0	
UH-3	OUELLET	OAS03008	VEHICLE BAY	CEILING SUSPENDED	2.30	83	7	0.030	1550	208/1/60	20.0	
UH-4	OUELLET	OAS02008	EX STORAGE	CEILING SUSPENDED	1.20	50	13	0.037	1550	208/1/60	20.0	
UH-5	OUELLET	OAS05008	MECHELEC ROOM	CEILING SUSPENDED	4.92	120	13	0.124	1550	208/1/60	20.0	

AIR SEPARATOR								
TAG	MODEL	PART NUMBER	PART NUMBER	MAX FLOW (M3H)	MAX. DESIGN TEMP. RANGE (DEG C)	MAX DESIGN PRES. (KPA)	WEIGHT (KG)	REMARKS
AS-1	SPA-2-S	WESSELS	72072101	12.71	-18 - 232	861	15.4	
AS-2	SPA-2-S	WESSELS	72072101	12.71	-18 - 232	861	15.4	



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# YORK REGIONAL POLICE HELICOPTER HANGAR

88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
WRIGHT BLVD)

## Key Plan

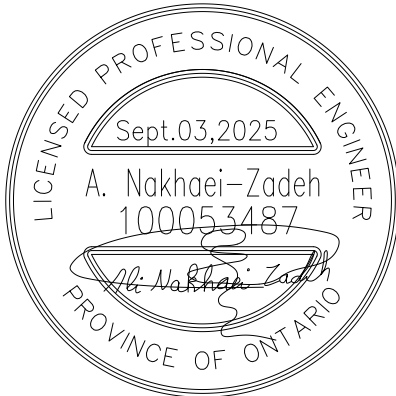
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## Issues

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Do not scale drawings

Drawn by: Fizzah Khan / Iulian Turiga  
Checked by: Ali Nakhaei-Zadeh  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale:



Sheet  
Title:

# MECHANICAL SCHEDULES

Drawing  
No. **M-900**

[illegible]







[illegible]



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---

Model: WBB2764020

**Campbell Hausfeld® 3.75HP 2-Stage 60 Gallon Single Phase Vertical Air Compressor**

★★★★★ (0)



Ships in 10 Business Days (ships from US)

**Product Description**

The Campbell Hausfeld CE5002 compressor features a cast iron, oil lubricated 2 stage pump for increased longevity and reduced noise. Boasting 175 PSI max pressure and 7.6 SCFM @ 90 PSI, unit allows the user optimum tool performance. The 60 gallon ASME vertical tank design is ideal for garage and workshop applications with a space-saving footprint. Needing a 230V power supply, the CE5002 is ideal for rotating tires, repairing engines, grinding, sanding, painting, nailing and more.

**Specifications**

Campbell Hausfeld® 3.75HP 2 Stage 60 Gallon Single Phase Vertical Air Compressor

9/25/24, 5:30 PM

**Weights & Dimensions**

Length	23 in
Width	23 in
Height	67.5 in
Weight	255 lbs
Tank Size	60 gal

**Product Details**

CFM	6.9 CFM
Horsepower	3.7 HP
Color	Black
Amperage	17.2 A
Max PSI	175 psi
Voltage	230 V
Phase	1
Usage	Home, Workshop
Description	2 Stage Air Compressor
Manufacturers Part Number	CE5002
Fuel Type	Electric
Pump Type	Two Stage
Engine Type	Induction
Brand	Campbell Hausfeld

**Warranty**

Warranty	3 Year Limited
----------	----------------

**Compliance & Certifications**

Certifications	ASME, UL, CSA
----------------	---------------


Campbell Hausfeld® 3.75HP 2 Stage 60 Gallon Single Phase Vertical Air Compressor

9/25/24, 5:30 PM

1 / 3

2 / 3

MSE-1



**STOCKTON TERRAZZO  
MOP SERVICE BASIN  
TSB3000 SERIES**

**TERRAZZO  
12" MOP SERVICE BASIN  
WITH "D" DROP FRONT**

- One piece, precast terrazzo made of black and white marble chips in gray Portland cement to produce a compressive strength of not less than 5000 P.S.I. seven days after casting.
- Terrazzo finish will be ground and polished with all air holes or pits ground and excess removed.
- Shoulders shall be not less than 1/2" High outside, 3/2" inside & lower wall is at 8" High drop front.
- Shoulder width be less than 7" on all sides with a 1/4" chamfer towards the inside.
- One inch drain hole in stainless steel cap to accept irregularity and provides for a caulked lead penetration not less than 7" deep at a 2" pipe.
- Stainless steel strainer # 143SB8
- Mask # 143SB8

**Options:**

- 1000 Quick drain connections
- Stainless steel finger hangers available with gri-grate. Must be custom order.
- Vandal proof front. Must be custom order.


✓ **TSB3000, TSB3001, TSB3002, TSB3003 Series** with stainless steel cap or cut out

✓ **TSB3001S, TSB3001S1, TSB3001S2, TSB3001S3 Series** with stainless steel caps on thresholds only

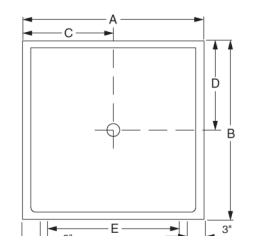
**Optional Components:**

- ✓ **8308A** Mop Service Basin Fitting
- ✓ **8308A** Hose & Hose Bracket
- ✓ **8850C** Mop Hanger
- ✓ **12388B** Aluminum Bumpguard with Vinyl Inset
- ✓ **8308A** Silicone Sealant
- ✓ **M80** Metal Guards - Stainless Steel
  - \*Wall Guards are manufactured of heavy gauge stainless steel and help protect wall adjacent to Mop Basins. Two panels are required for corner installations. Optional third panel is required for a noosed installation. (M80S204A M80S202R; M80S202C M80S204C M80S204R)
- ✓ **FIT1-24** Field Installable Tying Ties, 24"
- ✓ **FIT1-36** Field Installable Tying Ties, 36"

MSE-1



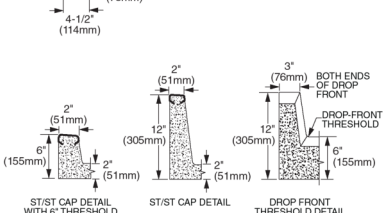
**STOCKTON TERRAZZO  
MOP SERVICE BASIN  
TSB3000 SERIES**



Shown: TSB3000

SEE REVERSE FOR ROUGHING-IN DIMENSIONS

**INSTALLATIONS:** Terrazzo Mop Basins must be installed on a 1/2" layer of mortar in order that the mop basin be level and to prevent cracking. Failure to install Terrazzo without a mortar bed will void the warranty. Installations require a 1/4" distance between mop basin and wall.



**INSTALLATIONS:** Rough-in dimensions may vary 1/2" and are subject to change or cancellation without prior notice.

**CERTIFICATIONS:**  
Meets requirements CSA B54.8-B-18 / (APAO) Z403-2016.  
All models are CUPC listed


✓ **TSB3000, TSB3001, TSB3002, TSB3003 Series** with stainless steel cap or cut out

✓ **TSB3001S, TSB3001S1, TSB3001S2, TSB3001S3 Series** with stainless steel caps on thresholds only

**Optional Components:**

- ✓ **8308A** Mop Service Basin Fitting
- ✓ **8308A** Hose & Hose Bracket
- ✓ **8850C** Mop Hanger
- ✓ **12388B** Aluminum Bumpguard with Vinyl Inset
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- ✓ **FIT1-24** Field Installable Tying Ties, 24"
- ✓ **FIT1-36** Field Installable Tying Ties, 36"

MSE-1



**STOCKTON TERRAZZO  
MOP SERVICE BASIN  
TSB3000 SERIES**

**FAUCET DESCRIPTION**

- Brush construction, chrome finish.
- Vacuum breaker spout with garden hose thread
- 1/2" CPFS openings
- Vandal resistant bore hole with screens
- Crystal clear stop
- Wide service stops

**OPERATION**

- Lower edge handles with hot and cold color indicators

**FLOW**

1. Unrestricted

**CARTRIDGE**

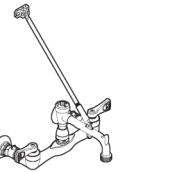
- Chrome-plated cartridge
- Non-metallic and nonferrous material

**STANDARDS**

- Third party certified by ICA to meet ASSE A112.18.1 and all applicable specification referenced therein


**WARRANTY**

- Warranted for 5 years against material or manufacturing defects

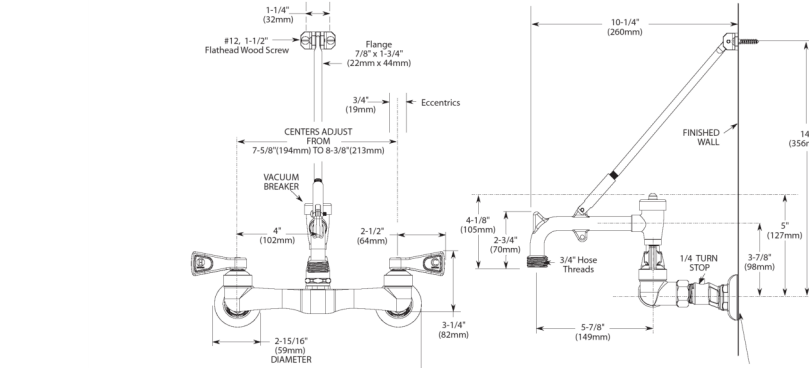


**Two-Hande Service Sink Faucet**

Model: 8124 (Chrome)



**CRITICAL DIMENSIONS**



**Fiat**  
**PRODUCTS**

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TSB3000-3A

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TSB3000-3A

**MOEN SPECIFIER SERVICES 1-800-321-8809 EXT. 2158**

Rev. 2/12

[illegible]

3 JANITOR SINK JS & FAUCET  
SCALE:N.T.S.

EMERGENCY EYEWASH & SHOWER  
SCALE:N.T.S.

[illegible]

5 **SHOWER FLOOR DRAIN**  
SCALE:N.T.S.

# PARKIN

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88 BALES DRIVE EAST  
(FORMERLY 350 GARFIELD  
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## Key Plan

[illegible]

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Drawn by: Author  
Checked by: Checker  
Original Issue Date: 2024-07-31  
Project No: TT-24-005  
Scale: N.T.S.



Sheet  
Title:


## MECHANICAL SCHEDULES IV

Drawing  
No. **M-903**



[illegible]

# PARKIN



QUASAR

YORK REGIONAL POLICE  
HELICOPTER HANGAR

## Key Plan

MECHANICAL  
SCHEDULES V

Drawing  
No. **M-904**