

MECHANICAL DRAWING LIST

| DRAWINGS NO. | DESCRIPTION | SCALE |
|--------------|----------------------------|--------|
| M000 | MECHANICAL COVER SHEET | N.T.S. |
| M001 | MECHANICAL MOTORLIST | N.T.S. |
| M002 | MECHANICAL SCHEDULES | N.T.S. |
| M101 | MECHANICAL ROOF PLAN | 1:100 |
| M102 | MECHANICAL FOUNDATION PLAN | 1:100 |
| M201 | PLUMBING PLAN LEVEL-1 | 1:100 |
| M202 | PLUMBING PLAN LEVEL-2 | 1:100 |
| M401 | HVAC PLAN LEVEL-1 | 1:100 |
| M402 | HVAC PLAN LEVEL-2 | 1:100 |
| M701 | MECHANICAL SCHEMATICS I | N.T.S. |
| M702 | MECHANICAL SCHEMATICS II | N.T.S. |
| M703 | MECHANICAL SCHEMATICS III | N.T.S. |
| M801 | MECHANICAL DETAILS | N.T.S. |
| M802 | MECHANICAL DETAILS | N.T.S. |

FIRE PROTECTION NOTES:

SCOPE OF WORK:

- THE SPRINKLER CONTRACTOR SHALL PROVIDE A COMPLETE FIRE SUPPRESSION SYSTEM FOR THE BUILDING IN ACCORDANCE WITH THE MECHANICAL SPECIFICATION, NFPA 13-2007 STANDARD AND THE BRITISH COLUMBIA BUILDING CODE 2018.
- THE BUILDING CODE REPORT FORMS AN INTEGRAL PART OF THE FIRE SUPPRESSION SYSTEM REQUIREMENTS AND SHALL FORM PART OF THE SPRINKLER CONTRACTOR'S SCOPE OF WORK RELATED TO THE FIRE SUPPRESSION SYSTEM.
- THE FIRE SUPPRESSION SYSTEM INFORMATION ON THESE DRAWINGS ARE FOR GENERAL SCOPE OF WORK AND COORDINATION DURING DESIGN. THE SYSTEM IS A DESIGN BUILD CONTRACT AS OUTLINED ON THE DRAWINGS AND SPECIFICATIONS

SYSTEM DESIGN:

- THE SPRINKLER CONTRACTOR SHALL RETAIN, ON BEHALF OF THE OWNER, A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA TO PROVIDE A COMPLETE DESIGN IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. THE SPRINKLER CONTRACTOR'S ENGINEER WILL BE THE "REGISTERED PROFESSIONAL OF RECORD" FOR THE FIRE SUPPRESSION SYSTEMS (PART 5 OF THE LETTERS OF ASSURANCE).
- THE FIRE SUPPRESSION SYSTEM SHALL BE HYDRAULICALLY DESIGNED.
- INCORPORATE ALL EQUIVALENCY REQUIREMENTS CONTAINED IN THE CODE CONSULTANT'S REPORT.
- THE SPRINKLER CONTRACTOR'S ENGINEER WILL PROVIDE FIELD REVIEWS AND WRITTEN REPORTS ON A MONTHLY BASIS THROUGHOUT THE PROJECT.
- REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS. COORDINATE ROUTING OF ALL PIPING WITH SUB-TRADES BEFORE START OF SPRINKLER SHOP DRAWINGS.

SHOP DRAWINGS:

- SUBMIT PRELIMINARY PIPE AND SPRINKLER LAYOUT TO CONSULTANT FOR REVIEW BEFORE START OF HYDRAULIC CALCULATIONS.
- SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS FOR SPRINKLER PERMIT APPLICATION. THESE DRAWINGS SHALL INDICATE ALL RELEVANT INFORMATION REQUIRED BY APPLICABLE NFPA STANDARDS AND FIRE DEPARTMENT REQUIREMENTS. SUBMIT DRAWINGS TO THE CONSULTANT FOR REVIEW PRIOR TO SUBMITTAL.
- SPRINKLER HEADS ARE TO BE COORDINATED WITH ACCESS PANELS AND LIGHTING IN AREAS WITH NO T-BAR CEILING. PROVIDE SHOP DRAWINGS FOR ACCESS PANELS INCLUDING LOCATION WITH RESPECT TO SPRINKLERS, LIGHTING AND DIFFUSERS / GRILLES.

- FIRE EXTINGUISHERS:**
- PROVIDE FIRE EXTINGUISHERS TO NFPA 10 AND THE BRITISH COLUMBIA FIRE CODE. FIRE EXTINGUISHERS TO BE INSTALLED IN FULLY RECESSED CABINETS. COORDINATE LOCATIONS AND MOUNTING DETAILS WITH THE ARCHITECT.

COORDINATION AND INSTALLATION:

- ALL SYSTEM COMPONENTS (PIPING, FITTINGS, DEVICES, ETC.) SHALL BE U.L. APPROVED AND U.L.C. LISTED.
- PROVIDE SEISMIC SWAY BRACING IN ACCORDANCE WITH NFPA 13 AND THE BRITISH COLUMBIA BUILDING CODE.
- DO NOT INSTALL SPRINKLER PIPING UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ARCHITECT.
- COORDINATION OF PIPE ROUTING, SLEEVING, CORING AND THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR, SUPPRESSION SYSTEM.
- COORDINATE PIPE ROUTING WITH THE MECHANICAL CONTRACTOR AND OTHER SUBTRADES ON SITE TO AVOID CONFLICT WITH OTHER SERVICES.
- SPRINKLER PIPING LOCATIONS SHALL NOT BE MODIFIED WITHOUT THE APPROVAL OF THE ARCHITECT. PROCEED ONLY AFTER SHOP DRAWINGS HAVE BEEN REVIEWED BY THE CONSULTANT AND ARCHITECT. PIPING IS EXPOSED, DO NOT DEVIATE FROM REVIEWED SHOP DRAWINGS WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
- ROUTE SPRINKLER LINES IN DROP CEILINGS & BULKHEADS. REFER TO SPRINKLER ARCHITECTUAL DRAWINGS FOR EXTENT OF DROP CEILINGS & BULKHEADS.
- PROVIDE ALL ANCILLARY DEVICES AND BAFFLES REQUIRED TO MEET NFPA STANDARDS.
- EXPOSED PIPING SHALL BE MADE READY FOR PAINTING AS SPECIFIED IN THE PAINTING SPECIFICATIONS.
- PROVIDE DRAIN AND TEST LOCATIONS FOR EACH SPRINKLER ZONE.

SPRINKLER HEADS:

- ALL SPRINKLER HEADS USED ON THE PROJECT SHALL BE QUICK-RESPONSE. UNLESS NOTED OTHERWISE.
- SPRINKLER HEADS USED ON THIS PROJECT SHALL BE AS NOTED ON THE DRAWINGS AND SPECIFICATIONS PROVIDED. ANY ALTERNATES SHALL BE REVIEWED AND ACCEPTED BY THE CONSULTANT PRIOR TO INSTALLATION.

- SPRINKLER HEADS ARE TO BE COORDINATED WITH ACCESS PANELS AND LIGHTING IN AREAS WITH NO T-BAR CEILING. PROVIDE SHOP DRAWINGS FOR ACCESS PANELS INCLUDING LOCATION WITH RESPECT TO SPRINKLERS, LIGHTING AND DIFFUSERS / GRILLES.

BUILDING LOADS

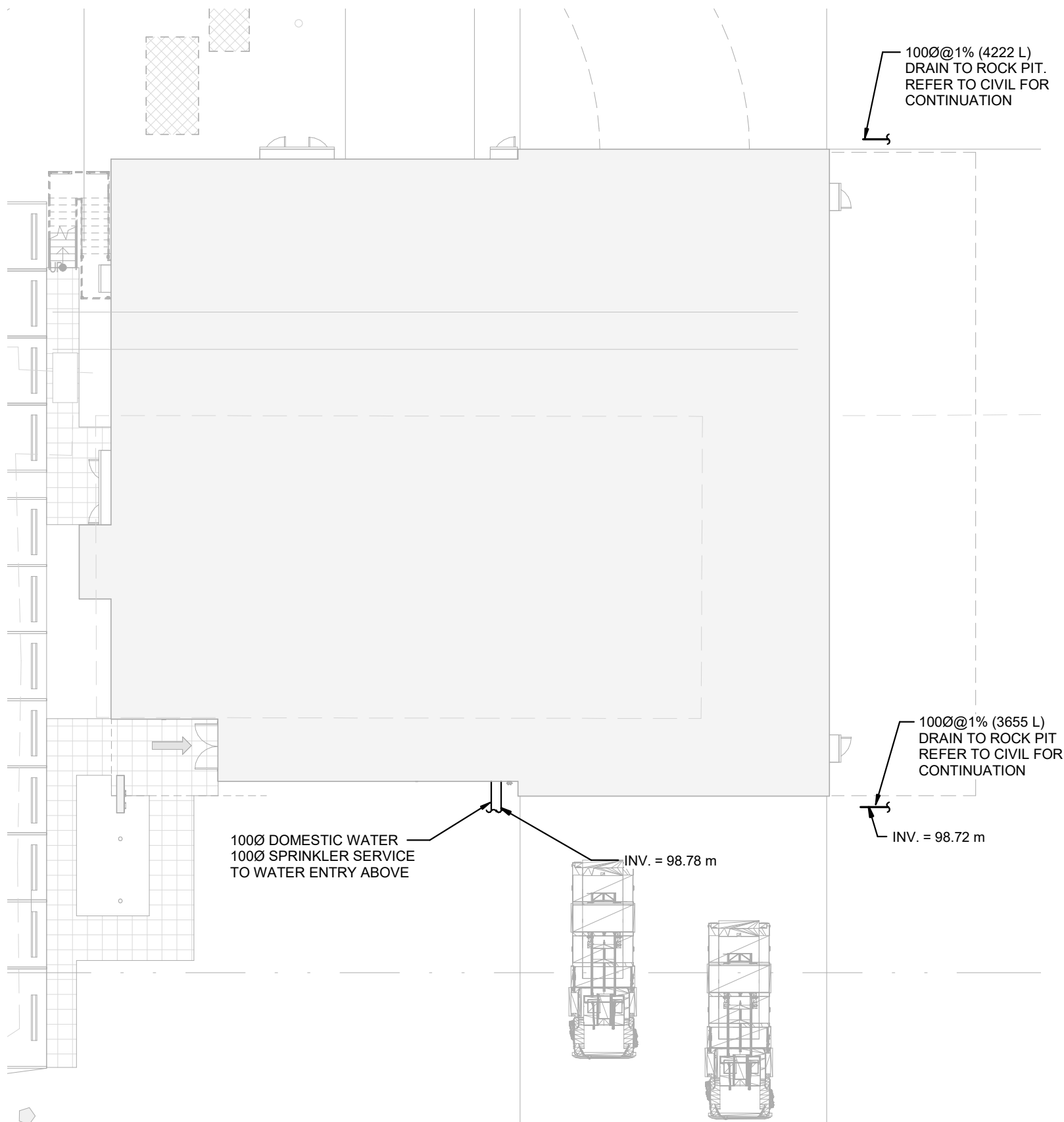
| DESCRIPTION | LOAD | UNITS | PIPE SIZE (MM) | NOTES |
|-----------------|-------|-------|----------------|-------|
| FIRE PROTECTION | 500 | GPM | 150Ø | - |
| SANITARY | 43.5 | FU | 100Ø @1% | N/A |
| STORM | 7.875 | L | - | - |
| DOMESTIC WATER | 531.9 | FU | 100Ø | 2 |

NOTES:

- STORM LOAD BASED ON 10MM/15MIN RAINFALL INTENSITY
- DOMESTIC WATER IN WATER ENTRY ROOM AND SERVING FIXTURES IN BUILDING SIZED TO ASPE UNIFORM PRESSURE LOSS METHOD, BASED ON MAXIMUM 5FT/VS USING COPPER PIPE UNLESS NOTED OTHERWISE.

MECHANICAL ABBREVIATIONS

| | | |
|---------------------------------------|---------------------------------------|-------------------------------------|
| AD AREA DRAIN | FLR FLOOR | OBD OPPOSED BLADE DAMPER |
| AFF ABOVE FINISHED FLOOR | FPM FEET PER MINUTE | OED OPEN ENDED DUCT |
| AHU AIR HANDLING UNIT | FSD FIRE SMOKE DAMPER | OD OUTSIDE DIAMETER |
| ARCH ARCHITECTURAL | FT FEET/FOOT | PD PRESSURE DROP |
| BB BASEBOARD HEATER | FP FIRE DEPARTMENT CONNECTION SERVICE | PDI PLUMBING AND DRAINAGE INSTITUTE |
| BDD BACKDRAFT DAMPER | GAL GALLONS | POC POINT OF CONNECTION |
| | GPM GALLONS PER HOUR | PRV PRESSURE REDUCING VALVE |
| | GPM GALLONS PER MINUTE | PSI POUNDS PER SQUARE INCH |
| BFP BACKFLOW PREVENTER | GWB GYPSUM WALL BOARD | R/A RETURN AIR |
| BHP BREAK HORSEPOWER | HD HUB DRAIN | RF RETURN FAN |
| BTUH BRITISH THERMAL UNIT / HOUR | HB HOSE BIBB | RM ROOM |
| CD CONTROL DAMPER | HP HORSEPOWER | RPM REVOLUTIONS PER MINUTE |
| CB CATCH BASIN | HCR HEATING COIL RETURN | RWL RAIN WATER LEADER |
| CFM CUBIC FEET PER MINUTE | HCS HEATING COIL SUPPLY | S SANITARY MAIN OR SINK |
| CLG CEILING | HRR HEAT RECOVERY RETURN | S/A SUPPLY AIR |
| CO CLEANOUT | HRS HEAT RECOVERY SUPPLY | SF SUPPLY FAN |
| CONN CONNECTION | HWR HEATING WATER RETURN | SH SHOWER |
| CW COMPLETE WITH | HWS HEATING WATER SUPPLY | SK SINK DRAIN ABOVE |
| CONT CONTINUATION | ID INSIDE DIAMETER | SS STAINLESS STEEL |
| DB DRY BULB | IE INVERT ELEVATION | SP SPRINKLER PIPE |
| DOW DOMESTIC COLD WATER | IN INCH | SPEC SPECIFICATION |
| DDC DIRECT DIGITAL CONTROL | INV INVERT | SR SANITARY RISER |
| DEG DEGREE | JS JANITOR SINK | ST STORM MAIN |
| DF DRINKING FOUNTAIN | KW KILOWATT | T/A TRANSFER AIR |
| DHW DOMESTIC HOT WATER | KS KITCHEN SINK | TAD TRANSFER AIR DUCT |
| DIA DIAMETER | LV LAVATORY | TBD TO BE DETERMINED |
| DN DOWN | L LOUVRE | TD TRENCH DRAIN |
| DW DISH WASHER | LAT LEAVING AIR TEMPERATURE | THRU THROUGH |
| DWG DRAWING | LBS POUNDS | TS TAMPER SWITCH |
| DHWR DOMESTIC HOT WATER RECIRCULATING | LWT LEAVING WATER TEMPERATURE | TSP TOTAL STATIC PRESSURE |
| EW EYEWASH STATION | MAU MAKE-UP AIR UNIT | TYP TYPICAL |
| E/A EXHAUST AIR | MAX MAXIMUM | UR URINAL |
| EAT ENTERING AIR TEMPERATURE | MH MANHOLE | V VEINT |
| EF EXHAUST FAN | MBH 1000 BRITISH THERMAL UNITS/HR | VEL VELOCITY |
| EFF EFFICIENCY | MD MOTORIZED DAMPER | VFD VARIABLE FREQUENCY DRIVE |
| | MECH MECHANICAL | VTR VENT THROUGH ROOF |
| ELEC ELECTRICAL | MIN MINIMUM | W WATER MAIN |
| ENT ENTERING | MU MAKE-UP MECHANICAL WATER | WB WET BULB |
| ESP EXTERNAL STATIC PRESSURE | NFHB NON FREEZE WALL HYDRANT | WC WATER CLOSET |
| EWT ENTERING WATER TEMPERATURE | NIC NOT IN CONTRACT | WCO WALL CLEANOUT |
| EXH EXHAUST | NG NATURAL GAS | WG WATER GAUGE |
| F FIRE MAIN | NC NOISE CRITERIA/NORMALLY CLOSED | |
| FCR FLUID COOLER RETURN | NO NORMALLY OPEN | |
| FCS FLUID COOLER SUPPLY | | |
| FD FLOOR DRAIN | | |
| FE FIRE EXTINGUISHER | | |
| FLA FULL LOAD AMPS | | |



HOBBS ROAD

1 M000 Site Plan SCALE: 1 : 200

| GENERAL PLUMBING | | FIRE SUPPRESSION | |
|--------------------|------------------------------------|------------------|-------------------------------------|
| | DOMESTIC COLD WATER (DCW) | | WET SPRINKLER |
| | DOMESTIC HOT WATER (DHW) | | DRY SPRINKLER |
| | DOMESTIC HOT WATER RECIRC. (DHW-R) | | PRE-ACTION SPRINKLER |
| | SANITARY VENTING | | FIRE MAIN TO STANDPIPE |
| | SANITARY DRAINAGE | | UPRIGHT SPRINKLER HEAD |
| | STORM DRAINAGE | | CONCEALED SPRINKLER HEAD |
| | FOOTING DRAINAGE (DRAIN TILE) | | SPRINKLER HEAD W/ PROTECTIVE CAGE |
| | NATURAL GAS | | PENDANT & UPRIGHT SPRINKLER HEADS |
| | CONTROL WIRE | | SIDEWALL SPRINKLER HEAD |
| | ABOVE GRADE PIPE CLEAN-OUT | | WALL RECESSED SIAMESE CONNECTION |
| | BELOW GRADE PIPE CLEAN-OUT | | FREE STANDING SIAMESE CONNECTION |
| | HOSE BIBB | | FIRE HOSE CABINET |
| | FLOOR DRAIN | | FIRE HOSE VALVE |
| | FUNNEL FLOOR DRAIN | | FIRE SYSTEM ALARM VALVE |
| | ROOF DRAIN | | FLOW SWITCH |
| | AREA DRAIN | | PRESSURE SWITCH |
| | CATCH BASIN | | FIRE EXTINGUISHER |
| | SITE MANHOLE | | FIRE EXTINGUISHER TYPE 'K' |
| | OPEN DRAIN | | RECESSED FIRE EXTINGUISHER |
| | | | RECESSED FIRE EXTINGUISHER TYPE 'K' |
| | | | FIRE SEPARATION - 0.0 HR RATING |
| | | | FIRE SEPARATION - 1.0 HR RATING |
| | | | FIRE SEPARATION - 1.5 HR RATING |
| | | | FIRE SEPARATION - 2.0 HR RATING |
| GENERAL HVAC | | GENERAL SYMBOL | |
| | SUPPLY/OUTDOOR AIR DUCT UP | | DIRECTION OF FLOW |
| | SUPPLY/OUTDOOR AIR DUCT DOWN | | SLOPED PIPE OR DUCT |
| | RETURN/RELIEF AIR DUCT UP | | PIPE DROP |
| | RETURN/RELIEF AIR DUCT DOWN | | PIPE RISE |
| | EXHAUST/COMBUSTION AIR DUCT UP | | PIPE TEE DOWN |
| | EXHAUST/COMBUSTION AIR DUCT DOWN | | PIPE TEE UP |
| | TURNING VANES | | PIPE SLEEVE |
| | ACOUSTIC INSULATION | | PIPE ANCHOR |
| | THERMAL INSULATION | | PIPE UNION |
| | BACK DRAFT DAMPER | | HEAT TRACE |
| | MOTORIZED DAMPER | | EXPANSION JOINT |
| | FIRE DAMPER VERTICAL | | FLEXIBLE CONNECTION |
| | FIRE DAMPER HORIZONTAL | | ISOLATION VALVE (NORMALLY OPEN) |
| | DUCT/PIPE CAP | | ISOLATION VALVE (NORMALLY CLOSED) |
| | SUPPLY AIR SQUARE DIFFUSER | | SUPERVISED VALVE |
| | SUPPLY AIR ROUND DIFFUSER | | CHECK VALVE |
| | SUPPLY AIR LINEAR DIFFUSER | | STRAINER |
| | RETURN AIR GRILLE | | BALANCING VALVE |
| | EXHAUST AIR GRILLE | | BALANCING VALVE W/ TEST PORTS |
| | DIRECTION OF AIRFLOW | | 2-WAY CONTROL VALVE |
| | DOOR UNDERCUT | | 3-WAY CONTROL VALVE |
| GENERAL ANNOTATION | | | PRESS. INDEPENDENT CONTROL VALVE |
| | KEYED NOTE | | PRESSURE REDUCING VALVE |
| | DRAWING REVISION | | PRESSURE REDUCING HOSE CONNECTION |
| | DETAIL NUMBER | | BACKFLOW PREVENTER |
| | DRAWING NUMBER | | RELIEF VALVE |
| | SECTION NUMBER | | STEAM TRAP |
| | DRAWING NUMBER | | SOLENOID VALVE |
| | EQUIPMENT/FIXTURE TAG | | AUTOMATIC AIR VENT |
| | VAV BOX TAG | | SEISMIC GAS SHUT-OFF VALVE |
| | MIN / MAX AIR VOLUME (CFM OR L/S) | | EMERGENCY GAS SHUT-OFF VALVE |
| | GRILLE/DIFFUSER TAG | | THERMOMETER |
| | NECK/GRILLE SIZE | | TEMPERATURE GAUGE |
| | AIR VOLUME (CFM OR L/S) | | PRESSURE GAUGE |
| | RADIANT PANEL TAG | | PUMP |
| | LENGTH | | |
| | FLUID FLOW (GPM OR L/S) | | |
| | CAPACITY (BTU OR KW) | | |
| | MECHANICAL ITEM TO BE DEMOLISHED | | |
| SYSTEM MONITORING | | | |
| | CO ₂ SENSOR | | |
| | NITROGEN OXIDE SENSOR | | |
| | THERMOSTAT | | |

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AME Group
consulting mechanical engineers

☒ VICTORIA
T. 250-382-5999 F. 250-382-5998
701 JOHNSON ST
VICTORIA BC, V8W 1M8

☐ VANCOUVER
T. 604-684-5995 F. 604-684-5993
200-1438 MIDWAY ST
VANCOUVER BC, V6B 1E3

☐ CALGARY
T. 403-252-2333 F. 403-252-2334
710-1122 4TH ST SW
CALGARY AB, T2K 1M1

☐ EDMONTON
T. 403-252-2333 F. 403-252-2334
3-300 KING ST
SPRUE GROVE AB, T7X 3C4

| | | |
|---|------------|--------------------|
| 3 | 2022-07-18 | ISSUED FOR TENDER |
| 2 | 2022-05-20 | ISSUED FOR COSTING |
| 1 | 2022-03-04 | ISSUED FOR BP |

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

SEAL

STUDIO PA
PRAXIS ARCHITECTS INC.

Heather Spinney, Architect, AIBC
Robert Rochesleau, Architect, AIBC

401 - 1245 Esquimalt Rd. Victoria, BC V8A 3P2
250 475 2702 studioipa.ca

PROJECT TITLE

DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE

MECHANICAL COVER SHEET

| | | |
|-------------|-------------|-----------|
| DATE | 2022 03 04 | SHEET NO. |
| PROJECT NO. | 145a-004-20 | M000 |
| SCALE | NTS00 | |
| DRAWN BY | SW | |

| MECHANICAL MOTOR LIST | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------------|-----|-----------------------|-------------------------------------|-----|-----|----|------|-----|-----------|---|--|---------|---|---|---------|-----|---|---|-------|-----|-------|
| UNIT NUMBER | UNIT DESCRIPTION | QTY | UNIT LOCATION | ELECTRICAL LOAD | | | | VOLT | PH | EQUIPMENT | | | STARTER | | | CONTROL | | | | NOTES | | |
| | | | | MCA | FLA | KW | HP | | | S | I | C | S | I | C | TYPE | S | I | C | TYPE | | |
| | VRF OUTDOOR UNITS | | | | | | | | | | | | | | | | | | | | | |
| CU-001 | CONDENSING UNIT | 1 | BUILDING EXTERIOR | 57.53 | | | | 208 | 3 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| BC-1 | BRANCH SELECTOR | 1 | CORRIDOR 101 | 1.19 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| | VRF FAN COIL UNIT (DX) | | | | | | | | | | | | | | | | | | | | | |
| FC-001 | WALL MOUNTED FAN COIL | 1 | TRAINING/MEETING ROOM | 0.24 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-002 | WALL MOUNTED FAN COIL | 1 | TRAINING/MEETING ROOM | 0.24 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-003 | CONCEALED DUCTED FAN COIL | 1 | GEAR ROOM | 1.20 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-004 | WALL MOUNTED FAN COIL | 1 | MTG ROOM | 0.24 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-005 | CONCEALED DUCTED FAN COIL | 1 | CORRIDOR | 1.20 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-006 | CONCEALED DUCTED FAN COIL | 1 | TRAINING OFFICER | 1.05 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-007 | WALL MOUNTED FAN COIL | 1 | IT ROOM | 0.24 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-008 | CONCEALED DUCTED FAN COIL | 1 | DAY ROOM | 2.73 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-009 | CONCEALED DUCTED FAN COIL | 1 | DAY ROOM | 2.73 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-010 | CONCEALED DUCTED FAN COIL | 1 | FITNESS AREA | 2.73 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-011 | WALL MOUNTED FAN COIL | 1 | DORMS | 0.24 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-012 | WALL MOUNTED FAN COIL | 1 | DORMS | 0.24 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-013 | WALL MOUNTED FAN COIL | 1 | DORMS | 0.24 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FC-014 | WALL MOUNTED FAN COIL | 1 | DORMS | 0.24 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| | FORCE FLOW HEATERS | | | | | | | | | | | | | | | | | | | | | |
| FFH-1 | ELECTRIC FORCE FLOW HEATER | 1 | ENTRANCE | | | 1.5 | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| FFH-2 | ELECTRIC FORCE FLOW HEATER | 1 | STAIR | | | 1.5 | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| | UNIT HEATERS | | | | | | | | | | | | | | | | | | | | | |
| UH-001 | ELECTRIC FAN COIL | 1 | APPARATUS BAY | 49.66 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| UH-002 | ELECTRIC FAN COIL | 1 | APPARATUS BAY | 49.66 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| UH-003 | ELECTRIC FAN COIL | 1 | APPARATUS BAY | 49.66 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| UH-004 | ELECTRIC FAN COIL | 1 | APPARATUS BAY | 49.66 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| | ENERGY RECOVERY VENTILATOR | | | | | | | | | | | | | | | | | | | | | |
| HRV-001 | HEAT RECOVERY VENTILATOR | 1 | TRAINING/MEETING | 10.80 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| HRV-002 | HEAT RECOVERY VENTILATOR | 1 | GEAR ROOM | 10.80 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| HRV-003 | HEAT RECOVERY VENTILATOR | 1 | STORAGE 204 | 9.90 | | | | 208 | 1 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| | FANS | | | | | | | | | | | | | | | | | | | | | |
| EF-001 | NEDERMAN EXHAUST SYSTEM | 1 | APPARATUS BAY | | | | | 10 | 208 | 3 | M | M | E | E | E | E | WS | M | M | M | M | BMS |
| EF-002 | APPARATUS BAY GENERAL EXHAUST | 1 | APPARATUS BAY | | | | | 0.5 | 120 | 1 | M | M | E | E | E | E | MRR | M | M | M | M | RSTAT |
| EF-004 | APPARATUS BAY WASHROOM | 1 | WC 118 | | | | | FRAC | 120 | 1 | M | M | E | E | E | E | WS | - | - | - | - | |
| EF-005 | LAUNDRY ROOM BOOSTER | 1 | LAUNDRY ROOM | | | | | FRAC | 120 | 1 | M | M | E | E | E | E | WS | - | - | - | - | |
| EF-006 | WORKSHOP GENERAL EXHAUST | 1 | WORKSHOP | | | | | FRAC | 120 | 1 | M | M | E | E | E | E | WS | - | - | - | - | |
| EF-007 | DECON ROOM GENERAL EXHAUST | 1 | DECON | | | | | FRAC | 120 | 1 | M | M | E | E | E | E | WS | - | - | - | - | |
| EF-008 | SCBA ROOM GENERAL EXHAUST | 1 | SCBA | | | | | FRAC | 120 | 1 | M | M | E | E | E | E | WS | - | - | - | - | |
| EF-009 | MECH. ROOM GENERAL EXHAUST | 1 | MECH. ROOM | | | | | FRAC | 120 | 1 | M | M | E | E | E | E | MRR | M | M | M | M | RSTAT |
| EF-010 | KITCHEN RANGE HOOD | 2 | DAYROOM | | | | | FRAC | 120 | 1 | M | M | E | E | E | E | WS | - | - | - | - | |
| EF-011 | SCBA-2 ROOM GENERAL EXHAUST | 1 | SCBA-2 | | | | | FRAC | 120 | 1 | M | M | E | E | E | E | WS | - | - | - | - | |
| EF-012 | ELEC. ROOM COOLING FAN | 1 | ELEC. ROOM | | | | | FRAC | 120 | 1 | M | M | E | E | E | E | MRR | M | M | M | M | RSTAT |
| CF-001 | DESTRATIFICATION FAN | 1 | APPARATUS BAY | | | | | 1.5 | 208 | 3 | M | M | E | E | E | E | MRR | M | M | M | M | RSTAT |
| CF-002 | DESTRATIFICATION FAN | 1 | APPARATUS BAY | | | | | 1.5 | 208 | 3 | M | M | E | E | E | E | MRR | M | M | M | M | RSTAT |
| | DOMESTIC HOT WATER HEATERS | | | | | | | | | | | | | | | | | | | | | |
| DHWT-001 | DOMESTIC WATER HEATER (ELECTRIC) | 1 | MECHANICAL ROOM | | | 8 | | 208 | 3 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| DHWT-002 | DOMESTIC WATER HEATER (ELECTRIC) | 1 | MECHANICAL ROOM | | | 8 | | 208 | 3 | M | M | E | M | M | M | PCS | M | M | M | M | BMS | |
| | PUMP | | | | | | | | | | | | | | | | | | | | | |
| P-001 | DOMESTIC HOT WATER RECIRC PUMP | 1 | MECHANICAL ROOM | | | | | FRAC | 120 | 1 | M | M | E | M | M | M | MRR | M | M | M | M | BMS |
| | MISCELLANEOUS | | | | | | | | | | | | | | | | | | | | | |
| | THERMOSTATIC MIXING VALVE | 1 | MECHANICAL ROOM | | | | | FRAC | 120 | 1 | M | M | E | - | - | - | - | - | - | - | - | |
| | SPRINKLER ZONE VALVES | | APPARATUS BAY | | | | | 120 | 1 | M | M | E | - | - | - | - | - | - | - | - | - | |
| | DRY SPRINKLER ZONE COMPRESSOR | | APPARATUS BAY | | | | | 2 | 208 | 3 | M | M | E | - | - | - | - | - | - | - | - | |
| | SPRINKLER FLOW SWITCHES | | | | | | | | | | M | M | E | - | - | - | - | - | - | - | - | 4 |
| | SPRINKLER VALVE TAMPER SWITCHES | | | | | | | | | | M | M | E | - | - | - | - | - | - | - | - | 4 |
| | CONOX CONTROL PANEL | | MECH ROOM | | | | | 120 | 1 | M | M | E | - | - | - | - | - | - | - | - | - | |
| | BUILDING DDC PANEL | 1 | MECHANICAL ROOM | | | | | 120 | 1 | M | M | E | - | - | - | - | - | - | - | - | - | |
| | HEAT TRACING | | APPARATUS BAY | | | | | 120 | 1 | M | M | E | - | - | - | - | - | - | - | - | - | |
| | NEDERMAN MAGNARAIL | 4 | APPARATUS BAY | | | | | 120 | 1 | M | M | E | - | - | - | - | - | - | - | - | - | |
| | MOTORIZED DAMPERS | 11 | REFER TO DRAWINGS | | | | | 120 | 1 | M | M | E | - | - | - | - | - | - | - | - | - | |
| SUPPLIER / INSTALL / WIRE CODES: | | | | CONTROL DEVICE CODES: | | | | | | | | GENERAL NOTES: | | | | | | | | | | |
| MECH = MECHANICAL | | | | AQUA = PUMP CONTROLLED BY AQUASTAT | | | | | | | | A. ALL FIRE ALARM DEVICES WIRED BY ELECTRICAL | | | | | | | | | | |
| ELEC = ELECTRICAL | | | | BMS = BLDG MANAGEMENT SYSTEM | | | | | | | | B. CONTROL PANELS ARE SHIPPED LOSS & REQUIRE FIELD WIRING | | | | | | | | | | |
| G = GENERAL CONTRACTOR | | | | ES = END SWITCH | | | | | | | | C. PCS EQUIPMENT REQUIRES SINGLE SOURCE POWER CONNECTION, UNLESS | | | | | | | | | | |
| S = SUPPLIED BY | | | | ET = LINE VOLTAGE T'STAT | | | | | | | | NOTED OTHERWISE | | | | | | | | | | |
| I = INSTALLED BY | | | | FA = FIRE ALARM | | | | | | | | D. CP, VFD EQUIPMENT REQUIRES POWER WIRING TO AND FROM CONTROL PANEL | | | | | | | | | | |
| C = CONNECTED BY | | | | FAP = FIRE ALARM PANEL | | | | | | | | TO CONTROLLED EQUIPMENT | | | | | | | | | | |
| | | | | FS = FLOW SWITCH | | | | | | | | | | | | | | | | | | |
| | | | | GS = GAS SENSOR | | | | | | | | | | | | | | | | | | |
| | | | | H = HUMIDITY SENSOR | | | | | | | | | | | | | | | | | | |
| | | | | I = INTERLOCK, SEE NOTES | | | | | | | | | | | | | | | | | | |
| | | | | LIGHT = WIRED TO LIGHT SWITCH | | | | | | | | | | | | | | | | | | |
| | | | | LS = LEVEL SWITCH | | | | | | | | | | | | | | | | | | |
| | | | | OS = OCCUPANT SENSOR | | | | | | | | | | | | | | | | | | |
| | | | | PS = PRESSURE SWITCH | | | | | | | | | | | | | | | | | | |
| | | | | R. STAT = REVERSE ACTING THERMOSTAT | | | | | | | | | | | | | | | | | | |
| | | | | TC = TIME CLOCK | | | | | | | | | | | | | | | | | | |
| | | | | T = LOW VOLTAGE T'STAT OR SENSOR | | | | | | | | | | | | | | | | | | |
| | | | | TS = TAMPER SWITCH | | | | | | | | | | | | | | | | | | |
| | | | | VS = VARIABLE SPEED SWITCH | | | | | | | | | | | | | | | | | | |
| | | | | WS = WALL SWITCH | | | | | | | | | | | | | | | | | | |
| STARTER CODES: | | | | | | | | | | | | NOTES: | | | | | | | | | | |
| MAN = MANUAL STARTER | | | | | | | | | | | | 1. 120V TO 24V HARDWIRED TRANSFORMER. | | | | | | | | | | |
| HOA = MAGNETIC STARTER W/ HAND/OFF/AUTO | | | | | | | | | | | | 2. PROVIDE 120V RECEPTACLE FOR PLUG-IN TRANSFORMER. | | | | | | | | | | |
| SWITCH W/ AUX. CONTACTS | | | | | | | | | | | | 3. PROVIDE GAS/OIL BOILER/WATER HEATER EMERGENCY STOP BUTTON AT MECH ROOM DOOR. | | | | | | | | | | |
| MAG = MAGNETIC STARTER C/W AUX STATUS CONTACTS | | | | | | | | | | | | 4. SPRINKLER ZONE VALVES AND FLOW SWITCHES TO BE MONITORED BY THE FIRE ALARM SYSTEM. | | | | | | | | | | |
| MRR = MOTOR RATED RELAY, 24 VAC COIL | | | | | | | | | | | | 5. SMOKE DETECTOR IN RETURN DUCT MAIN. | | | | | | | | | | |
| & MOTOR PROTECTION SWITCH | | | | | | | | | | | | 6. REQUIRES RECEPTACLE. | | | | | | | | | | |
| PCS = PACKAGED CONTROL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| VFD = VARIABLE FREQUENCY DRIVE | | | | | | | | | | | | | | | | | | | | | | |
| RVS = REDUCED VOLTAGE STARTER | | | | | | | | | | | | | | | | | | | | | | |
| WS = WALL SWITCH | | | | | | | | | | | | | | | | | | | | | | |
| CP = CONTROL PANEL | | | | | | | | | | | | | | | | | | | | | | |

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☒ **VICTORIA**
T. 250-385-5999 F. 250-382-5998
271 JOHNSON ST
VICTORIA BC, V8M 1W8

☐ **VANCOUVER**
T. 604-684-5995 F. 604-684-5993
2000 - 638 SMITH ST
VANCOUVER BC, V6B 1E3

☐ **CALGARY**
T. 403-252-2333 F. 403-252-2334
1710 - 1122 46TH ST SW
CALGARY AB, T2R 1M1

☐ **EDMONTON**
T. 403-252-2333 F. 403-252-2334
3 - 302 KING ST
SPRUCE GROVE AB, T7X 2C6

[illegible]

| | | |
|------------|-------------|--------------------|
| 3 | 2022-07-18 | ISSUED FOR TENDER |
| 2 | 2022-05-20 | ISSUED FOR COSTING |
| 1 | 2022-03-04 | ISSUED FOR BP |
| NO. | DATE | DESCRIPTION |

SEAL

Permit to Practice No: 1000236



**STUDIO
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PRAXIS ARCHITECTS INC.

Heather Spinney, Architect, AIBC
Robert Rocheleau, Architect, AIBC

401 - 1245 Esquimalt Rd. Victoria, BC V8A 3P2
250 475 2702 studiospe.ca

PROJECT TITLE

DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE

MECHANICAL MOTORLIST

| | | |
|-------------|-------------|------------------------------|
| DATE | 2022 03 04 | SHEET NO. M001 |
| PROJECT NO. | 145a-004-20 | |
| SCALE | | |
| DRAWN BY | SW | |

| AIR COOLED CONDENSING UNIT | | | | | | | | | | | | | |
|--|----------|------|--------------|-----------------|--------------------|--------------|-------------|------------------|------------|-----------|---------------------|------|-------|
| EQUIPMENT TAG | LOCATION | TYPE | MANUFACTURER | MODEL | TOTAL CLG CAP (KW) | HTG CAP (KW) | WEIGHT (KG) | REFRIGERANT TYPE | ELEC (MCA) | (V/PH/Hz) | AMBIENT DESIGN (°C) | | NOTES |
| CU-001 | OUTDOORS | VRF | mitsubishi | PURY-EP168TNU-A | 47.7 | 37.2 | 427.7 | R410A | 57 | 208/3/60 | 29.4 | -9.4 | ALL |
| NOTES: | | | | | | | | | | | | | |
| 1 FULLY MODULATING INVERTER COMPRESSORS. 2 SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE SIZES, LENGTHS, AND REFRIGERANT VOLUME. 3 [2] MODULE SYSTEM. 4 PROVIDE 8TL LISTED BACNET MODULE FOR INTERFACE WITH BMS. 5 REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS. | | | | | | | | | | | | | |

| EXPANSION TANK | | | | | | | | | | | | |
|--|------------|--------------------|-----------|--------------|-------|------------|--------------------|------------------|----------------------|--------------------------|-------------|-------|
| EQUIPMENT TAG | LOCATION | TANK DESCRIPTION | TYPE | MANUFACTURER | MODEL | VOLUME (L) | TANK DIAMETER (MM) | TANK LENGTH (MM) | BLADDER CHARGE (KPA) | MAX WORKING PRESS. (KPA) | ARRANGEMENT | NOTES |
| ET-001 | MECH. ROOM | DHW EXPANSION TANK | DIAPHRAGM | AMTROL | ST-12 | 17 | 279.4 | 381 | 276 | 1034 | VERTICAL | ALL |
| NOTES: | | | | | | | | | | | | |
| 1 FIXED BLADDER (FDA APPROVED BUTYL) TANK SUITABLE FOR DOMESTIC USE. 2 TANK SUPPLIED WITH SEISMIC MOUNTING KIT. 3 DIELECTRIC CONNECTION. 4 TANK TO BE ASME RATED. 5 FIXED HEAVY DUTY BUTYL BLADDER. 6 ASHRAE 90.1 INSULATION COMPLIANCE | | | | | | | | | | | | |

| ENERGY RECOVERY UNIT VENTILATOR SCHEDULE | | | | | | | | | | |
|---|-----|------------------|--------------|-------------------------|------------------------------------|----------------|----------|----------------|--------------|-------|
| EQUIPMENT TAG | QTY | LOCATION | MANUFACTURER | MODEL | SERVICE | EXHAUST SIDE | | SUPPLY SIDE | | NOTES |
| | | | | | | AIR FLOW (L/S) | ESP (PA) | AIR FLOW (CFM) | ESP (I/N WG) | |
| HRV-001 | 1 | TRAINING/MEETING | RENEW AIRE | HE-1XJINH-S15EE-DGNT-L | TRAINING/MEETING | 359.62 | 74.7 | 359.62 | 74.7 | 1.2 |
| HRV-002 | 1 | GEAR ROOM | RENEW AIRE | HE-1XJINH-S15EE-DGNT-L | GEAR ROOM/MTG ROOM/OFFICES/LIBRARY | 283.17 | 74.7 | 283.17 | 74.7 | 1.2 |
| HRV-003 | 1 | STORAGE 204 | RENEW AIRE | HE-1.5JINH-S15EE-DGNT-L | DORMS/DAY ROOM | 594.65 | 74.7 | 594.65 | 74.7 | 1.2 |
| NOTES: | | | | | | | | | | |
| 1. PROVIDE WITH MANUFACTURER'S CONTROL UNIT | | | | | | | | | | |
| 2. MERV 8 FILTER | | | | | | | | | | |

| DOMESTIC WATER HEATER (ELECTRIC) | | | | | | | | | | | | |
|---|-----|-----------------|----------|-----------------------|--------------|----------|--------------|------------|-------------------------|--------------------|-----------------------|-------|
| EQUIPMENT TAG | QTY | LOCATION | SERVICE | TANK DESCRIPTION | MANUFACTURER | MODEL | VOLUME (GAL) | INPUT (kW) | RECOVERY CAPACITY (GPH) | TEMP. RISE (DEG F) | SHIPPING WEIGHT (LBS) | NOTES |
| DWH-001 | 1 | MECHANICAL ROOM | FIREHALL | ELECTRIC WATER HEATER | AO SMITH | DSE-20-9 | 20 | 9 | 37 | 100 | 145 | |
| DWH-002 | 1 | MECHANICAL ROOM | FIREHALL | ELECTRIC WATER HEATER | AO SMITH | DSE-20-9 | 20 | 9 | 37 | 100 | 145 | 1.4 |
| NOTES: | | | | | | | | | | | | |
| 1 C/W CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE AND A DRAIN VALVE. 3 PROVIDE FLUE & VENTING KITS 4 MEETS OR EXCEEDS INSULATION REQUIREMENT AS PER ASHRAE 90.1 | | | | | | | | | | | | |

| FANS | | | | | | | | | | | | | | |
|--|-----|----------------------------------|---------------|--------------------------|--------------|----------------|----------------|----------------|-----------|------------|---------------------|-----------------|-------------|-------|
| EQUIPMENT TAG | QTY | SERVICE | LOCATION | TYPE | MANUFACTURER | MODEL | AIR FLOW (L/S) | E. S. P. (PA) | FAN (RPM) | DRIVE TYPE | SOUND LEVEL (SONES) | ELEC (V/PH/CHZ) | WEIGHT (KG) | NOTES |
| EF-001 | 1 | NEDERMAN EXHAUST SYSTEM | APPARATUS BAY | INLINE CENTRIFUGAL FAN | NEDERMAN | NCF 80/20 | 2,372 | 1,020 | 3550 | DIRECT | - | 208/3/60 | 670 | |
| EF-002 | 1 | APPARATUS BAY GENERAL EXHAUST | APPARATUS BAY | INLINE CABINET FAN | GREENHECK | SQ-120-A | 779 | 75 | 1725 | DIRECT | 13.6 | 120/1/60 | 136 | |
| EF-004 | 1 | APPARATUS BAY WASHROOM EXHAUST | WV 118 | CEILING FAN | PANASONIC | FV-0511VQ1 | 24 | 75 | 1093 | DIRECT | 0.4 | 120/1/60 | - | |
| EF-005 | 1 | LAUNDRY ROOM BOOSTER | LAUNDRY ROOM | CEILING FAN | PANASONIC | FV-1115VQ1 | 47 | 75 | 900 | DIRECT | <0.3 | 120/1/60 | - | |
| EF-006 | 1 | WORKSHOP GENERAL EXHAUST | WORKSHOP | CEILING FAN | PANASONIC | FV-1115VQ1 | 47 | 75 | 900 | DIRECT | <0.3 | 120/1/60 | - | |
| EF-007 | 1 | DECON ROOM GENERAL EXHAUST | DECON | CEILING FAN | PANASONIC | FV-0511VQ1 | 24 | 75 | 1093 | DIRECT | 0.4 | 120/1/60 | - | |
| EF-008 | 1 | SCBA ROOM GENERAL EXHAUST | SCBA | CEILING FAN | PANASONIC | FV-1115VQ1 | 47 | 75 | 900 | DIRECT | <0.3 | 120/1/60 | - | |
| EF-009 | 1 | MECH. ROOM GENERAL EXHAUST | MECH. ROOM | CEILING FAN | PANASONIC | FV-1115VQ1 | 47 | 75 | 900 | DIRECT | <0.3 | 120/1/60 | - | |
| EF-010 | 1 | KITCHEN RANGE HOOD | DAYROOM | UNDER-CABINET RANGE HOOD | BROAN | SAHLE | 142 | 25 | | DIRECT | 5 | 120/1/60 | 61 | |
| EF-011 | 1 | SCBA-2 ROOM EXHAUST (COMPRESSOR) | SCBA-2 | INLINE CABINET FAN | GREENHECK | SQ-100-B | 330 | 75 | 1140 | DIRECT | 5.8 | 120/1/60 | 113 | |
| EF-012 | 1 | ELEC. ROOM COOLING FAN | ELEC. ROOM | CEILING FAN | PANASONIC | FV-1115VQ1 | 47 | 75 | 900 | DIRECT | <0.3 | 120/1/60 | - | |
| CF-001 | 1 | DESTRATIFICATION FAN | APPARATUS BAY | CEILING FAN | BIG ASS FANS | POWERFOIL X3.0 | | | | DIRECT | | 208/3/60 | | |
| CF-002 | 1 | DESTRATIFICATION FAN | APPARATUS BAY | CEILING FAN | BIG ASS FANS | POWERFOIL X3.0 | | | | DIRECT | | 208/3/60 | | |
| NOTES: | | | | | | | | | | | | | | |
| 1. BACKDRAFT DAMPER IF <300; MOTORIZED DAMPER IS >300 2. HIGH EFFECENCY MOTOR (MINIMUM) | | | | | | | | | | | | | | |
| 3. 1/2 INCH INSULATED CABINET 4. DISCONNECT SWITCH | | | | | | | | | | | | | | |
| 6. C/W VARIABLE SPEED DRIVE | | | | | | | | | | | | | | |

| PUMP SCHEDULE | | | | | | | | | | | | | | | |
|---------------|--|--------------------------|-----------|--------|----------------|--------|---------------------|------------|-----------------|---------------|--------------------|------------|-------------|-----------------|-------|
| EQUIPMENT TAG | QTY | DESCRIPTION | LOCATION | TYPE | MANUFACTURER | MODEL | FLUID TEMP. (DEG C) | FLUID TYPE | FLOW (EA) (LPM) | HEAD (EA) (M) | IMPELLER SIZE (MM) | MOTOR (HP) | MOTOR (RPM) | POWER (V/PH/Hz) | NOTES |
| P-1 | 1 | DOMESTIC HOT RECIRC PUMP | MECH ROOM | RECIRC | BELL & GOSSETT | NBF-25 | 60 | WATER | 19.0 | 3.0 | | FRAC | 2,950 | 120/1/60 | ALL |
| NOTES: | | | | | | | | | | | | | | | |
| 1 | ALL BRONZE CONSTRUCTION. | | | | | | | | | | | | | | |
| 2 | AQUASTAT CONTROLLED | | | | | | | | | | | | | | |
| 3 | HIGH EFFICIENCY MOTOR. SEE MOTORLIST FOR STARTER | | | | | | | | | | | | | | |
| 4 | C/W BELL&GOSSETT AQS-3/4 AQUASTAT | | | | | | | | | | | | | | |

| VRF - FAN COIL UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|-----|-----------------------|-----------------------|--------------------|---------------------------|-----------------|--------------------|---------------|-------------------------|------------------|-------------------------|-----------|----------------------|----------------------|-------------------|-----------|----------------------------|--------|-------------|----|-------|--|
| EQUIPMENT TAG | CONDENSER | QTY | SERVICE | LOCATION | TYPE | MANUFACTURER | EVAP. MODEL | TOTAL CLG CAP (KW) | HTG CAP. (KW) | AIR FLOW (LPS WET COIL) | EVAP WEIGHT (KG) | EVAP DIMENSIONS (LXWXH) | | COND. MODEL NO. | COND. AIR FLOW (LPS) | COND. WEIGHT (KG) | (V/PH/Hz) | OUTDOOR AIR TEMP. (DEG. C) | | RM SETPOINT | | NOTES | |
| | | | | | | | | | | | | (V/PH/Hz) | WINTER DB | | | | | SUMMER DB | DEG. C | RH % | | | |
| FC-001 | CU-001 | 1 | TRAINING/MEETING ROOM | TRAINING/MEETING ROOM | OUTDOOR AT LEVEL 1 | WALL MOUNTED FAN COIL | PKFY-P12NLMU-E | 3183.2 | 3388.6 | 140.2 | 5.0 | 732X1500X250 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| FC-002 | CU-001 | 1 | TRAINING/MEETING ROOM | TRAINING/MEETING ROOM | OUTDOOR AT LEVEL 1 | WALL MOUNTED FAN COIL | PKFY-P12NLMU-E | 3183.2 | 3388.6 | 140.2 | 5.0 | 732X800X250 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| FC-003 | CU-001 | 1 | GEAR ROOM | GEAR ROOM | OUTDOOR AT LEVEL 1 | CONCEALED DUCTED FAN COIL | PEFY-P12NMSU-E | 3183.2 | 3388.6 | 174.6 | 9.1 | 732X800X250 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| FC-004 | CU-001 | 1 | MTG ROOM | MTG ROOM | OUTDOOR AT LEVEL 1 | WALL MOUNTED FAN COIL | PKFY-P06NLMU-E | 1591.7 | 1681.7 | 90.2 | 5.0 | 732X1000X250 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| FC-005 | CU-001 | 1 | OFFICES | CORRIDOR | OUTDOOR AT LEVEL 1 | CONCEALED DUCTED FAN COIL | PEFY-P12NMSU-E | 3183.2 | 3388.6 | 174.6 | 9.1 | 732X1000X250 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| FC-006 | CU-001 | 1 | OFFICE/LIBRARY | TRAINING OFFICER | OUTDOOR AT LEVEL 1 | CONCEALED DUCTED FAN COIL | PEFY-P06NMSU-E | 1591.7 | 1681.7 | 116.6 | 8.6 | 237X773X299 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| FC-007 | CU-001 | 1 | IT ROOM | IT ROOM | OUTDOOR AT LEVEL 1 | CONCEALED DUCTED FAN COIL | PEFY-P18NMSU-E | 4774.9 | 5019.9 | 249.7 | 10.9 | 237X773X299 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| FC-008 | CU-001 | 1 | DAY ROOM | DAY ROOM | OUTDOOR AT LEVEL 1 | CONCEALED DUCTED FAN COIL | PEFY-P30NMAU-E4 | 7958.1 | 8534.0 | 416.8 | 13.6 | 237X773X299 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| FC-009 | CU-001 | 1 | DAY ROOM | DAY ROOM | OUTDOOR AT LEVEL 1 | CONCEALED DUCTED FAN COIL | PEFY-P24NMAU-E4 | 6366.4 | 6777.0 | 416.8 | 13.6 | 732X800X250 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| FC-010 | CU-001 | 1 | FITNESS AREA | FITNESS AREA | OUTDOOR AT LEVEL 1 | CONCEALED DUCTED FAN COIL | PKFY-P24NKMU-E2 | 6366.4 | 6777.0 | 434.2 | 9.5 | 732X800X250 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| FC-011 | CU-001 | 1 | DORMS | DORMS | OUTDOOR AT LEVEL 1 | CONCEALED DUCTED FAN COIL | PEFY-P24NMSU-E | 6366.4 | 6777.0 | 333.2 | 12.7 | 732X800X251 | 208/1/60 | PURY-EP168TNU-A-(BS) | 7009.2 | 352.4 | 208/3/60 | 15.0 | 52.2 | 23.9 | 50 | ALL | |
| NOTES: | | | | | | | | | | | | | | | | | | | | | | | |
| 1 PROVIDE WALL MOUNTED PROGRAMMABLE THERMOSTAT FOR EACH FAN COIL | | | | | | | | | | | | EVAP = | | | | | | | | | | | |
| 2 PROVIDE 3/4" COPPER CONDENSATE DRAIN | | | | | | | | | | | | COND = | | | | | | | | | | | |
| 3 PROVIDE MANUFACTURER FILTER | | | | | | | | | | | | INDOOR UNIT | | | | | | | | | | | |
| 4 PROVIDE PACKAGED CONDENSATE PUMP, (120 V CONNECTION) | | | | | | | | | | | | OUTDOOR UNIT | | | | | | | | | | | |
| 5 REFRIGERANT AND SUCTION LINES SIZE BY MANUFACTURER. | | | | | | | | | | | | | | | | | | | | | | | |
| 6 PROVIDE MOUNTING BASE FOR CONDENSING UNITS | | | | | | | | | | | | | | | | | | | | | | | |

| BACK FLOW PREVENTER SCHEDULE | | | | | | |
|------------------------------|-----|---------------------------|------------------|------|------|---------------|
| TAG | QTY | SERVICE AREA | LOCATION | TYPE | SIZE | MODEL |
| BFP-1 | 1 | PREMESIS ISOLATION | WATER ENTRY ROOM | DCVA | 1000 | WATTS 757 |
| BFP-2 | 1 | FIRE PROTECTION ISOLATION | WATER ENTRY ROOM | DCVA | 1000 | AMES 2000B-FP |
| BFP-3 | 1 | WASHER ISOLATION | LAUNDRY 119 | DCVA | 250 | WATTS LF-009 |
| NOTES: | | | | | | |

| BRANCH CIRCUIT CONTROLLER | | | | | | | | |
|--|--------------|--------------|-----------------|------------------------|-------------|-------|-----------|---|
| EQUIPMENT | LOCATION | MANUFACTURER | MODEL | MAX NUMBER OF BRANCHES | WEIGHT (KG) | ELEC | NOTES | |
| TAG | | | | | | (MCA) | (V/PH/Hz) | |
| BC-1 | CORRIDOR 101 | MITSUBISHI | CMB-P1012NU-JA1 | 16 | 69.40 | 1.57 | 208/1/60 | 0 |
| NOTES: | | | | | | | | |
| 1. REFRIGERANT LINES SIZED BY MANUFACTURER. | | | | | | | | |
| 2. R410A REFRIGERANT. | | | | | | | | |
| 3. INDIVIDUAL CONTROL AND CHANGEOVER WITH EXTENDED RANGE OF PRODUCT OFFERINGS - 4, 6, 8, 10 AND 12 PORT OPTIONS. | | | | | | | | |
| 4. NO DRAIN PIPE REQUIRED. | | | | | | | | |
| 5. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS. | | | | | | | | |

| DIFFUSERS AND GRILLES | | | | | |
|-----------------------|---------------------------------|--------------|---------------------------|--------------|-----------|
| EQUIPMENT TAG | DESCRIPTION/TYPE | MANUFACTURER | SERVICE | MODEL NUMBER | NOTES |
| SD-1 | SQUARE PLAQUE DIFFUSER, 12"x12" | E.H. PRICE | SUPPLY AIR | SPD | 1.2.3.4 |
| SD-2 | SQUARE PLAQUE DIFFUSER, 24"x24" | E.H. PRICE | SUPPLY AIR | SPD | 1.2.3.5 |
| SD-3 | ROUND CONE DIFFUSER | E.H. PRICE | SUPPLY AIR | RCD | 1.2.3.6 |
| SG-1 | LOUVERED FACE SUPPLY GRILLE | E.H. PRICE | SUPPLY AIR | 499 | 1.2.3.4.4 |
| RG-1 | LOUVERED FACE RETURN GRILLE | E.H. PRICE | RETURN AIR | 500 | 1.2.3.4.5 |
| LG-1 | DRAINABLE LOUVER | E.H. PRICE | INTAKE AND EXHAUST LOUVER | DE439 | 3.6.7.8 |
| DG-1 | DOOR GRILLE | E.H. PRICE | RETURN AIR | STG | 1.2.5 |

NOTES:

1

PROVIDE DIFFUSERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT WALLS AND CEILING SYSTEMS. REFER TO ARCHITECTURAL DRAWINGS.

2

NC LEVELS BASED ON OCTAVE BANDS 2-7 SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 DB. MEASURED PER ASHRAE 70-91.

3

CUSTOM COLOUR OF PRODUCT TO BE SELECTED BY THE ARCHITECT DURING THE SHOP DRAWINGS SUBMITTAL PROCESS.

4

PROVIDE OPPOSED SLADE DAMPERS FOR RETURN AND EXHAUST GRILLES

5

BLADES TO BE PARALLEL TO LONG DIMENSION

6

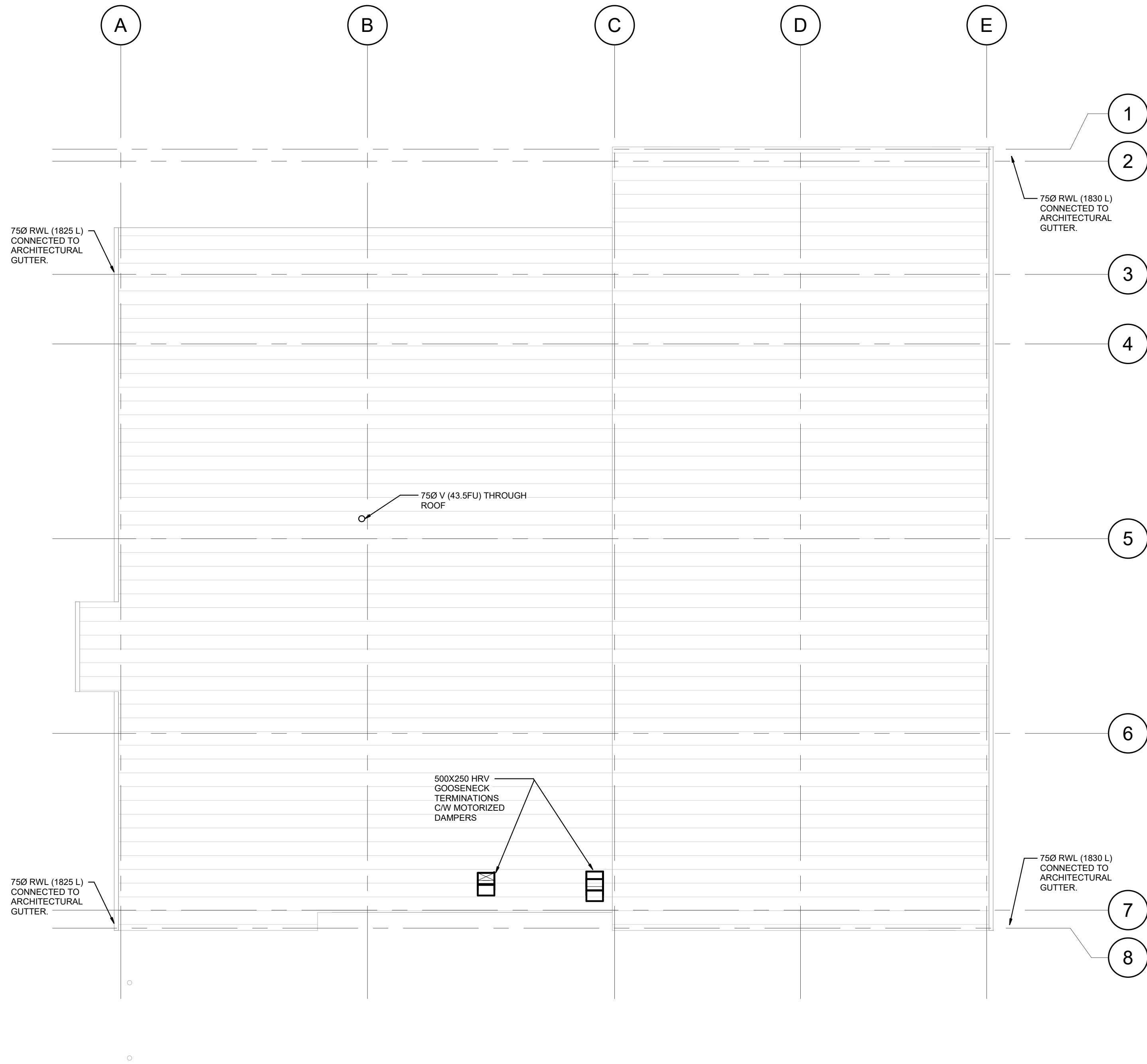
MINIMUM NOMINAL 50% FREE AREA

7

C/W BIRD SCREEN

8

BLADES TO BE ALUMINUM CONSTRUCTION

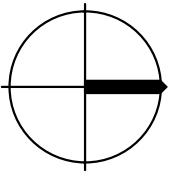


1 MECHANICAL ROOF PLAN
M101 SCALE: 1 : 100

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☐ CALGARY T. 403-252-2333 F. 403-252-2334 710 - 1122 4TH ST SW CALGARY AB T2K 1M1
☐ EDMONTON T. 403-252-2333 F. 403-252-2334 3 - 300 KING ST SPRUCE GROVE AB T7X 2C6



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| 1 | 2022-03-04 | ISSUED FOR BID |

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Robert Rocheleau, Architect, AIBC

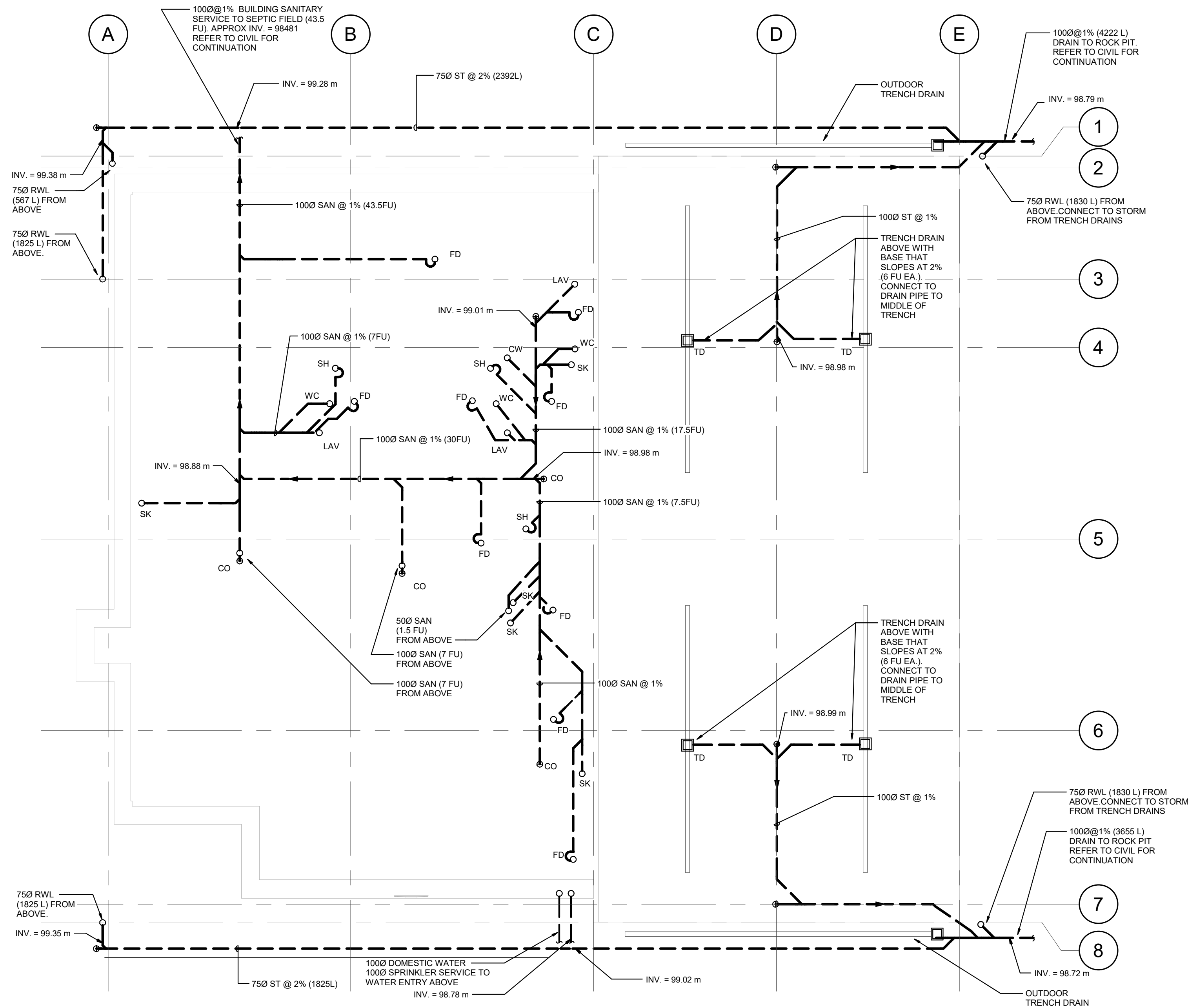
401 - 1245 Esquimalt Rd. Victoria BC V8A 3P2
250 475 2702 studioipa.ca

PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE
MECHANICAL ROOF PLAN

| | | |
|-------------|-------------|-----------|
| DATE | 2022 03 04 | SHEET NO. |
| PROJECT NO. | 145a-004-20 | M101 |
| SCALE | 1 : 100 | |
| DRAWN BY | SW | |



1 MECHANICAL FOUNDATION PLAN
SCALE: 1 : 100

GENERAL NOTES

- REFER TO THE PLUMBING FIXTURE TABLE FOR FIXTURE LOAD UNLESS OTHERWISE INDICATED ON DRAWING.
- ALL SANITARY PIPING IS SLOPED AT 1% UNLESS OTHERWISE STATED

PLUMBING FIXTURE TABLE

| FIXTURE | LOAD (FU) |
|---------|-----------|
| LAV | 1.5 |
| WC | 4 |
| SH | 1.5 |
| SK | 1.5 |

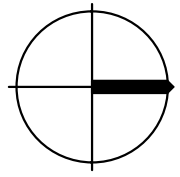
ELEVATIONS

T.O.S LEVEL 1 - 99600

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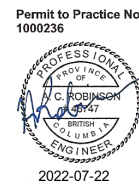
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☐ EDMONTON T. 403-252-2333 F. 403-252-2334 3 - 300 KING ST S PRUCE GROVE AB T7X 2C6



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| 1 | 2022-03-04 | ISSUED FOR BID |

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Robert Rocheleau, Architect, AIBC

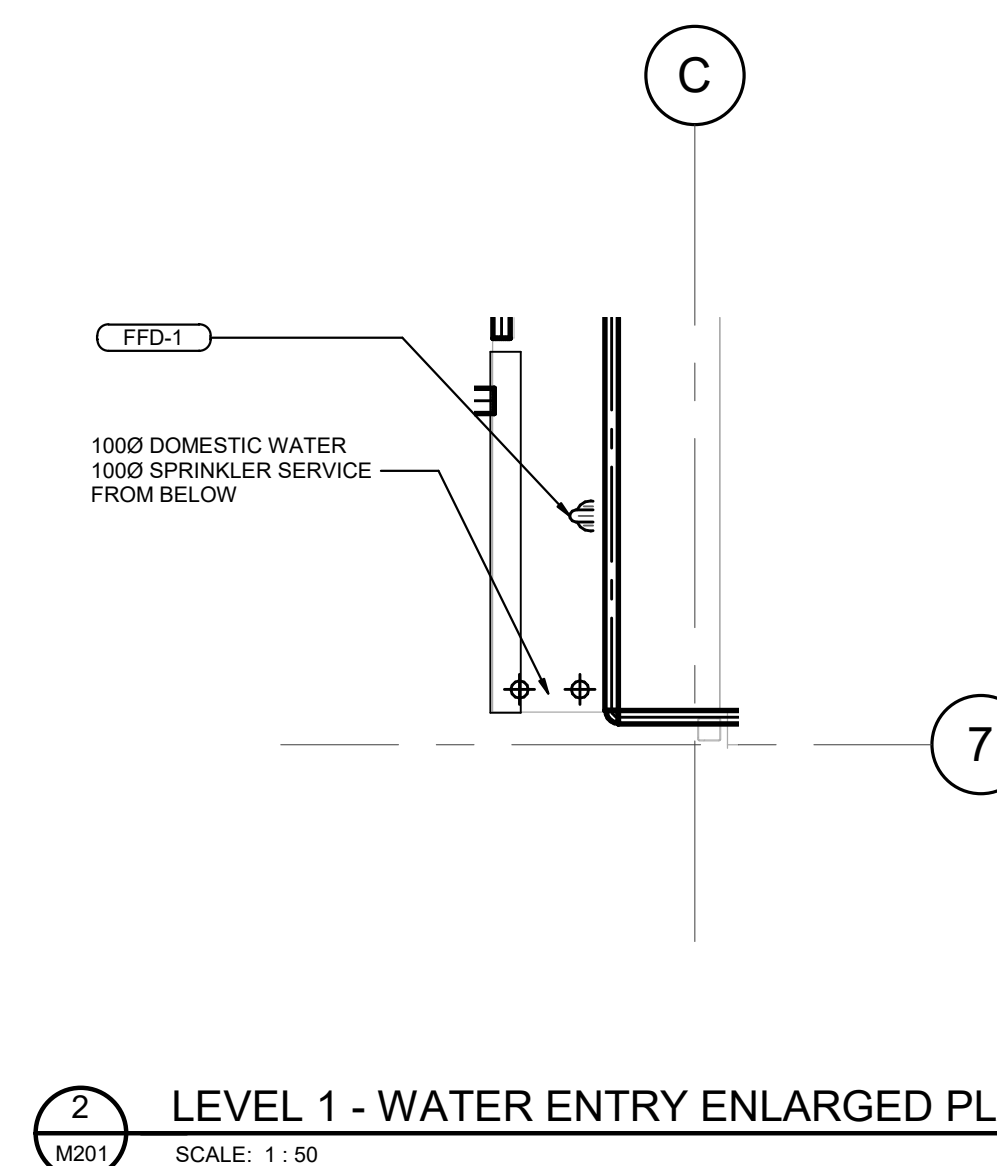
401 - 1245 Esquimalt Rd. Victoria, BC V8A 3P2
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PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE
MECHANICAL FOUNDATION PLAN

| | | |
|-------------|-------------|-----------|
| DATE | 2022 03 04 | SHEET NO. |
| PROJECT NO. | 145a-004-20 | M102 |
| SCALE | 1 : 100 | |
| DRAWN BY | SW | |



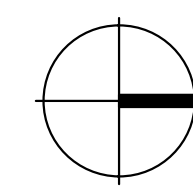
- | GENERAL NOTES | |
|---------------|--|
| 1. | REFER TO THE PLUMBING FIXTURE TABLE FOR FIXTURE LOAD UNLESS OTHERWISE INDICATED ON DRAWING. |
| 2. | ALL SANITARY PIPING IS SLOPED AT 1% UNLESS OTHERWISE STATED |
| 3. | ALL WATER MAINS TO BE ROUTED THROUGH CEILING SPACE. |
| 4. | PLUMBING ROUTING/CONFIGURATION DRAWN FOR INTENT PURPOSE ONLY. ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS |
| 5. | RUN ALL PIPING WITH APPARATUS BAY AT HIGH LEVEL. CONTRACTOR TO COORDINATE PIPE LOCATIONS WITH OTHER SERVICES AND OVERHEAD BAY DOORS. |
| 6. | SLOPE ALL COMPRESSED AIR LINES BACK TO COMPRESSOR. ALL TAKE OFFS TO BE FROM THE TOP OF HTE MAIN PRIOR TO DROPPING DOWN TO PREVENT MOISTURE BUILD UP. |
| 7. | INCLUDE SPRINKLERS UNDER THE OVERHANG IN LEVEL-2 DECK |

| PLUMBING FIXTURE TABLE | |
|------------------------|-----------|
| FIXTURE | LOAD (FU) |
| LAV | 1.5 |
| WC | 4 |
| SH | 1.5 |
| SK | 1.5 |

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| <input type="checkbox"/> | CALGARY T. 403-252-2333 F. 403-252-2334 710 - 1122 4TH ST SW CALGARY AB. T2R 1M1 | <input type="checkbox"/> | EDMONTON T. 403-252-2333 F. 403-252-2334 3 - 300 KING ST SPRUCE GROVE AB. T7X 2C6 |



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| NO. | DATE | DESCRIPTION |

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PRAXIS ARCHITECTS INC.

Heather Spinney, Architect, AIBC
Robert Rocheleau, Architect, AIBC

401 - 1245 Esquimalt Rd., Victoria, BC V8A 3P2
250.414.2070

PROJECT TITLE

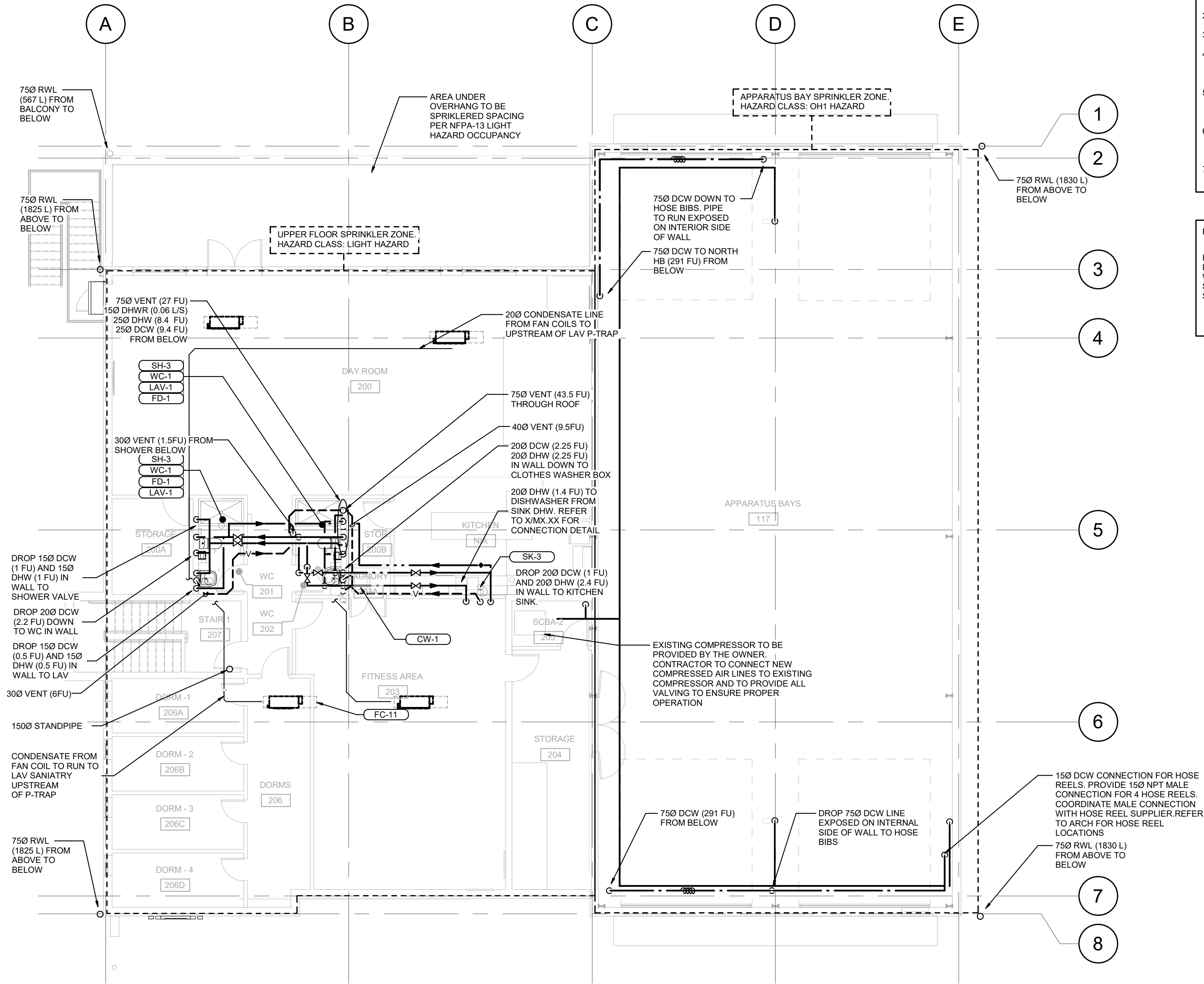
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE

PLUMBING PLAN LEVEL-1

| | | |
|-------------|--------------|------------------------------|
| DATE | 2022 03 04 | SHEET NO. M201 |
| PROJECT NO. | 145a-004-20 | |
| SCALE | As indicated | |
| DRAWN BY | SW | |



1 PLUMBING PLAN LEVEL-2
SCALE: 1 : 100

- GENERAL NOTES
1. REFER TO THE PLUMBING FIXTURE TABLE FOR FIXTURE LOAD UNLESS OTHERWISE INDICATED ON DRAWING.
 2. ALL SANITARY PIPING IS SLOPED AT 1% UNLESS OTHERWISE STATED
 3. ALL WATER MAINS TO BE ROUTED THROUGH CEILING SPACE.
 4. PLUMBING ROUTING/CONFIGURATION DRAWN FOR INTENT PURPOSE ONLY. ALL PLUMBING TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS
 5. RUN ALL PIPING WITHIN APPARATUS BAY AT HIGH LEVEL. CONTRACTOR TO COORDINATE PIPE LOCATIONS WITH OTHER SERVICES AND OVERHEAD BAY DOORS.
 6. SLOPE ALL COMPRESSED AIR LINES BACK TO COMPRESSOR. ALL TAKE OFFS TO BE FROM THE TOP OF HTE MAIN PRIORING TO DROPPING DOWN TO PREVENT MOISTURE BUILD UP.
 7. INCLUDE SPRINKLERS UNDER THE OVERHANG IN LEVEL-2 DECK

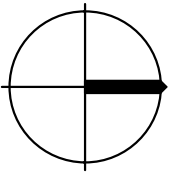
PLUMBING FIXTURE TABLE

| FIXTURE | LOAD (FU) |
|---------|-----------|
| LAV | 1.5 |
| WC | 4 |
| SH | 1.5 |
| SK | 1.5 |

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☐ EDMONTON T. 403-252-2333 F. 403-252-2334 3 - 300 KING ST SPRUCE GROVE AB T7X 2C6



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401 - 1245 Esquimalt Rd. Victoria, BC V8A 3P2
250 475 2702 studipga.ca

Heather Spinney, Architect, AIBC
Robert Rocheleau, Architect, AIBC

PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE

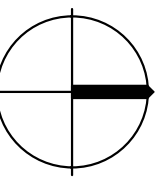
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|-------------|-------------|-----------|
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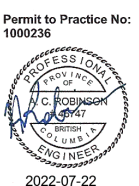
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☐ CALGARY T. 403-252-2333 F. 403-252-2334 710 - 1122 4TH ST SW CALGARY AB, T2R 1M1
☐ EDMONTON T. 403-252-2333 F. 403-252-2334 3 - 300 KING ST SPRUCE GROVE AB, T7X 2C6



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| 1 | 2022-03-04 | ISSUED FOR BID |

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Robert Rocheleau, Architect, AIBC

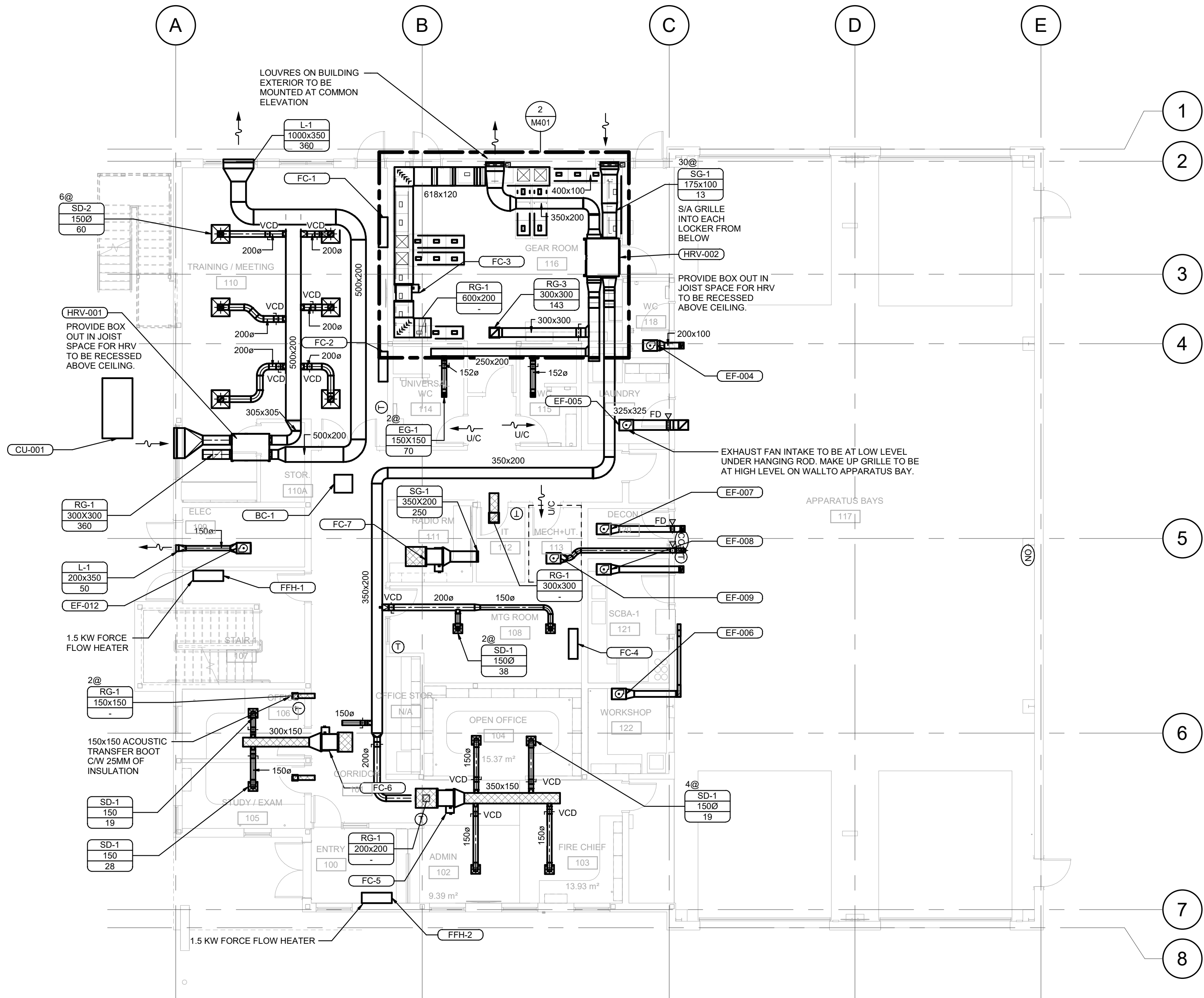
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PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

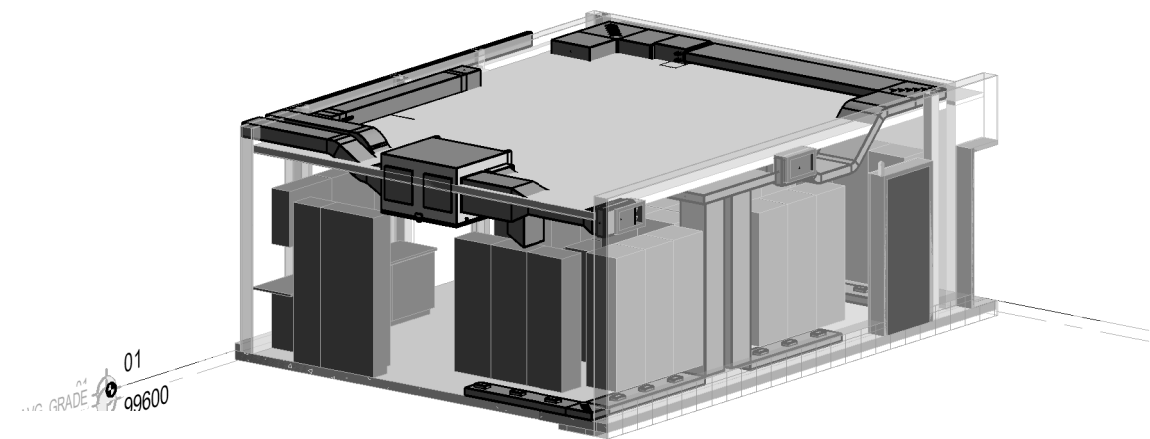
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QUALICUM BEACH BC
V9K 2B2

SHEET TITLE
HVAC PLAN LEVEL-1

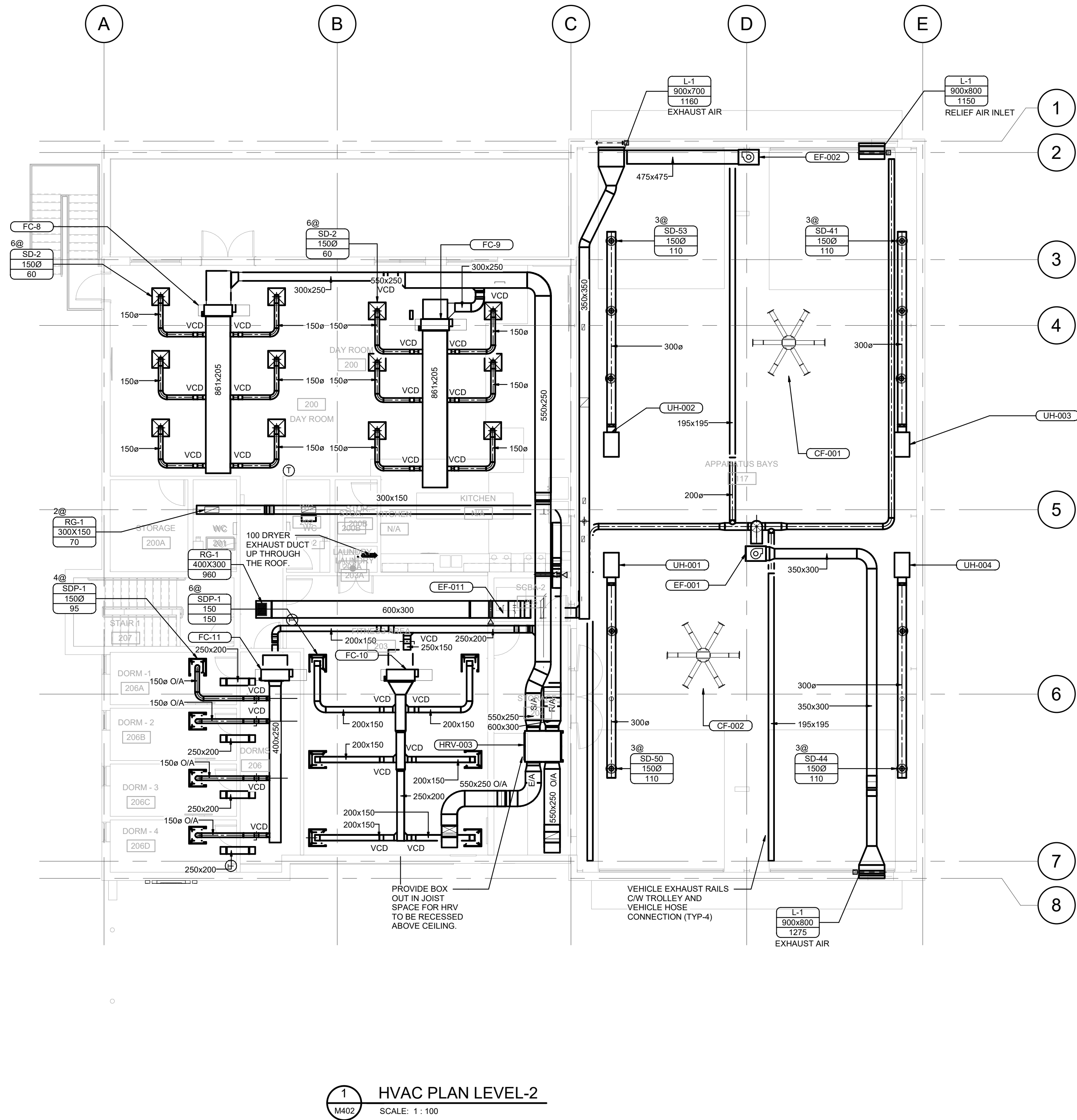
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| SCALE | 1 : 100 | |
| DRAWN BY | SW | |



1 HVAC PLAN LEVEL-1
SCALE: 1 : 100

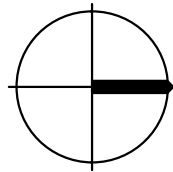


2 HVAC PLAN LEVEL-1
SCALE:



1 HVAC PLAN LEVEL-2
M402 SCALE: 1 : 100

- GENERAL NOTES
1. MAINTAIN A MINIMUM 600MM OF STRAIGHT DUCTWORK ON THE INLET AND OUTLET OF UNIT HEATERS IN APPARATUS BAY.



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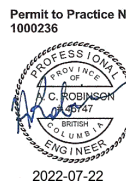
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☐ EDMONTON T. 403-252-2333 F. 403-252-2334 3 - 300 KING ST SPRUCE GROVE AB, T7X 2C6

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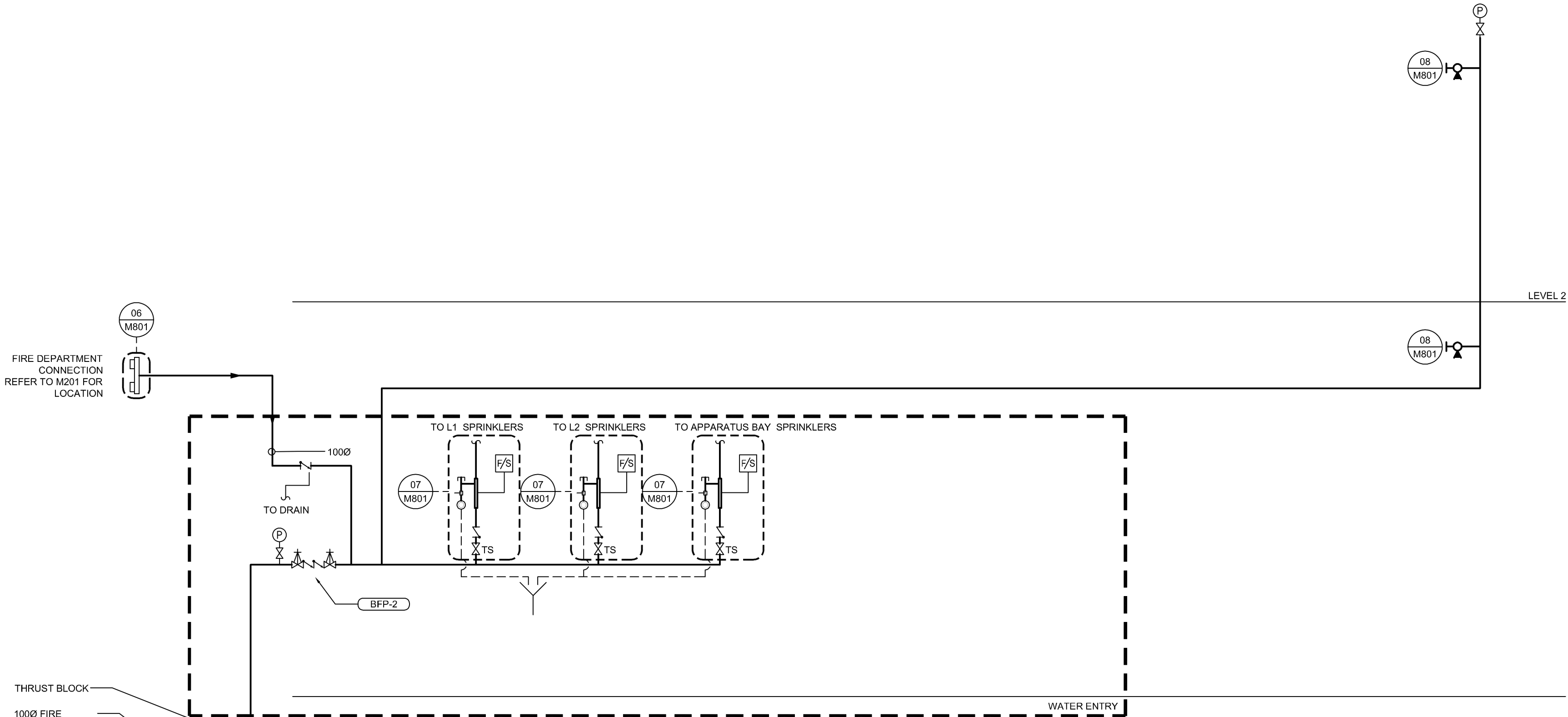
Heather Spinney, Architect, AIBC
Robert Rocheleau, Architect, AIBC

PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

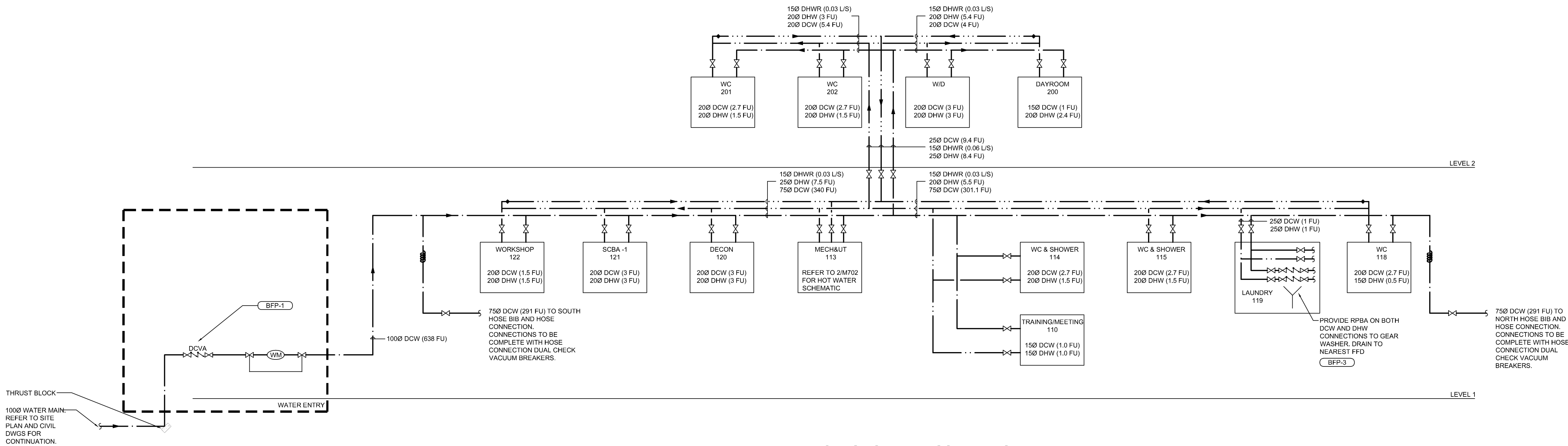
230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE
HVAC PLAN LEVEL-2

| | | |
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| DATE | 2022 03 04 | SHEET NO. |
| PROJECT NO. | 145a-004-20 | M402 |
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| DRAWN BY | SW | |



2 FIRE PROTECTION SCHEMATIC
SCALE: NTS



1 DOMESTIC WATER SCHEMATIC
SCALE: NTS

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VICTORIA BC, V8W 1M8

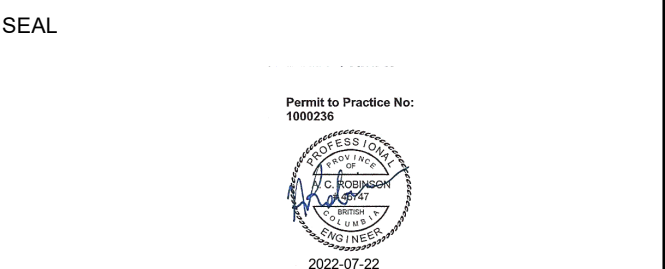
VANCOUVER
T. 604-684-5995 F. 604-684-5993
200 - 438 SMITH ST
VANCOUVER BC, V6B 1E3

EDMONTON
T. 403-255-2333 F. 403-255-2334
3 - 300 KING ST
EDMONTON AB, T2X 1M1

SPRUCEDALE
T. 403-255-2333 F. 403-255-2334
3 - 300 KING ST
SPRUCEDALE AB, T7X 3C6

| | | |
|---|------------|--------------------|
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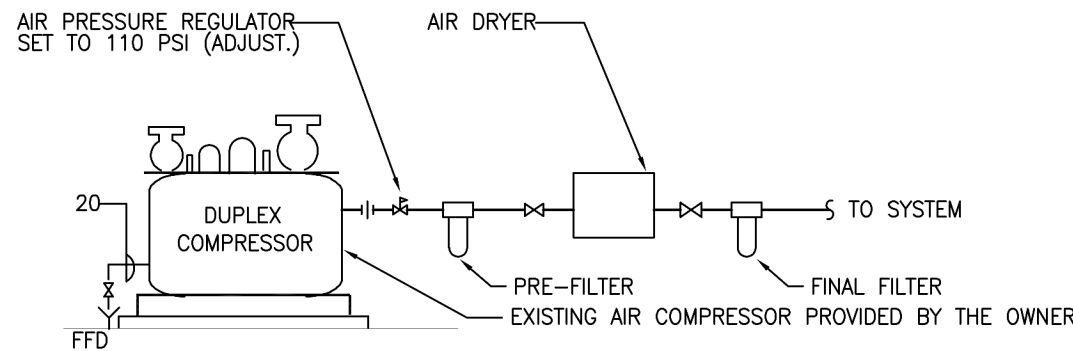
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250 475 2702
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PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

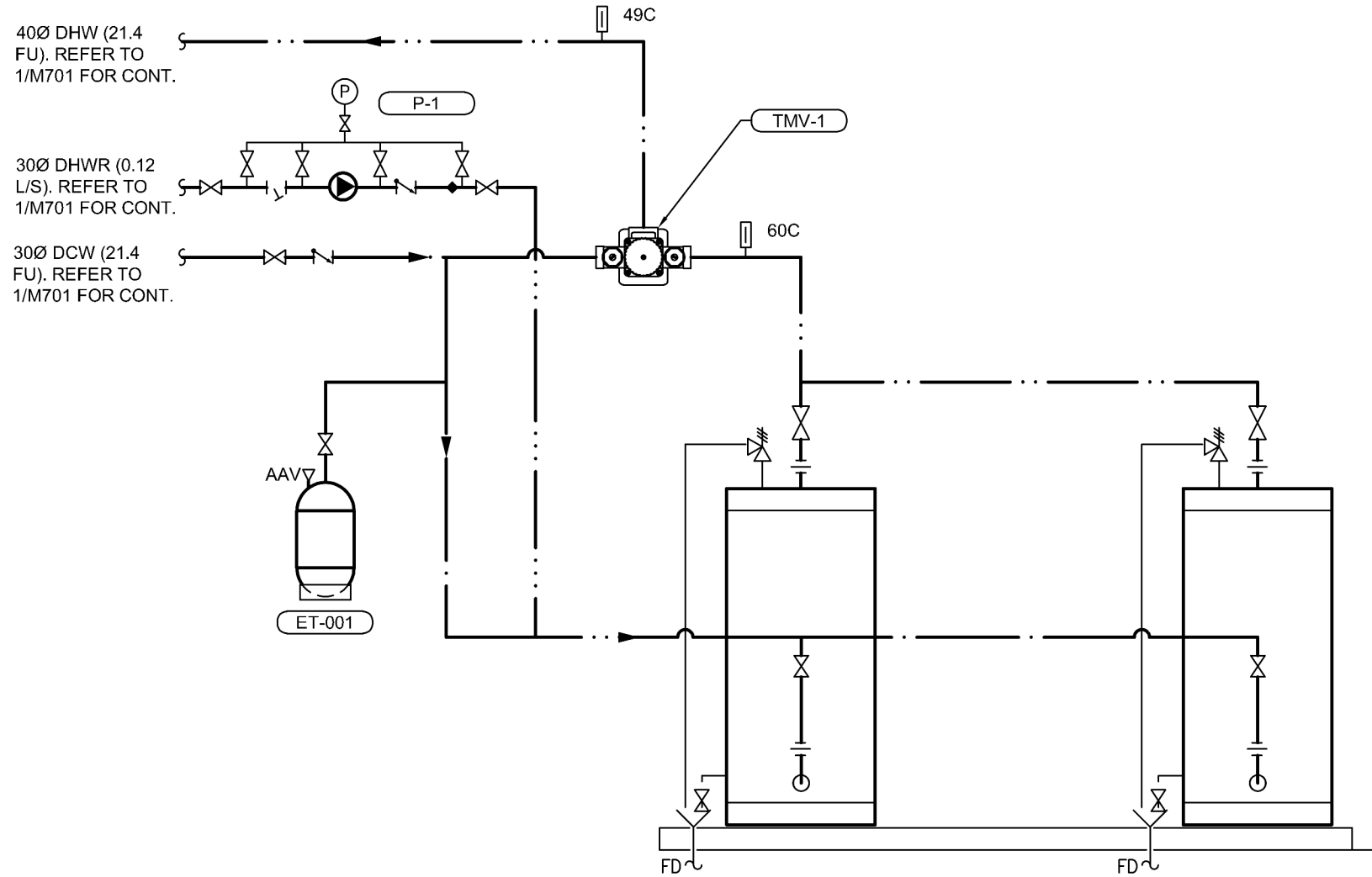
SHEET TITLE
MECHANICAL SCHEMATICS I

| | | |
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| DATE | 2022 03 04 | SHEET NO. |
| PROJECT NO. | 145a-004-20 | M701 |
| SCALE | | |
| DRAWN BY | SW | |

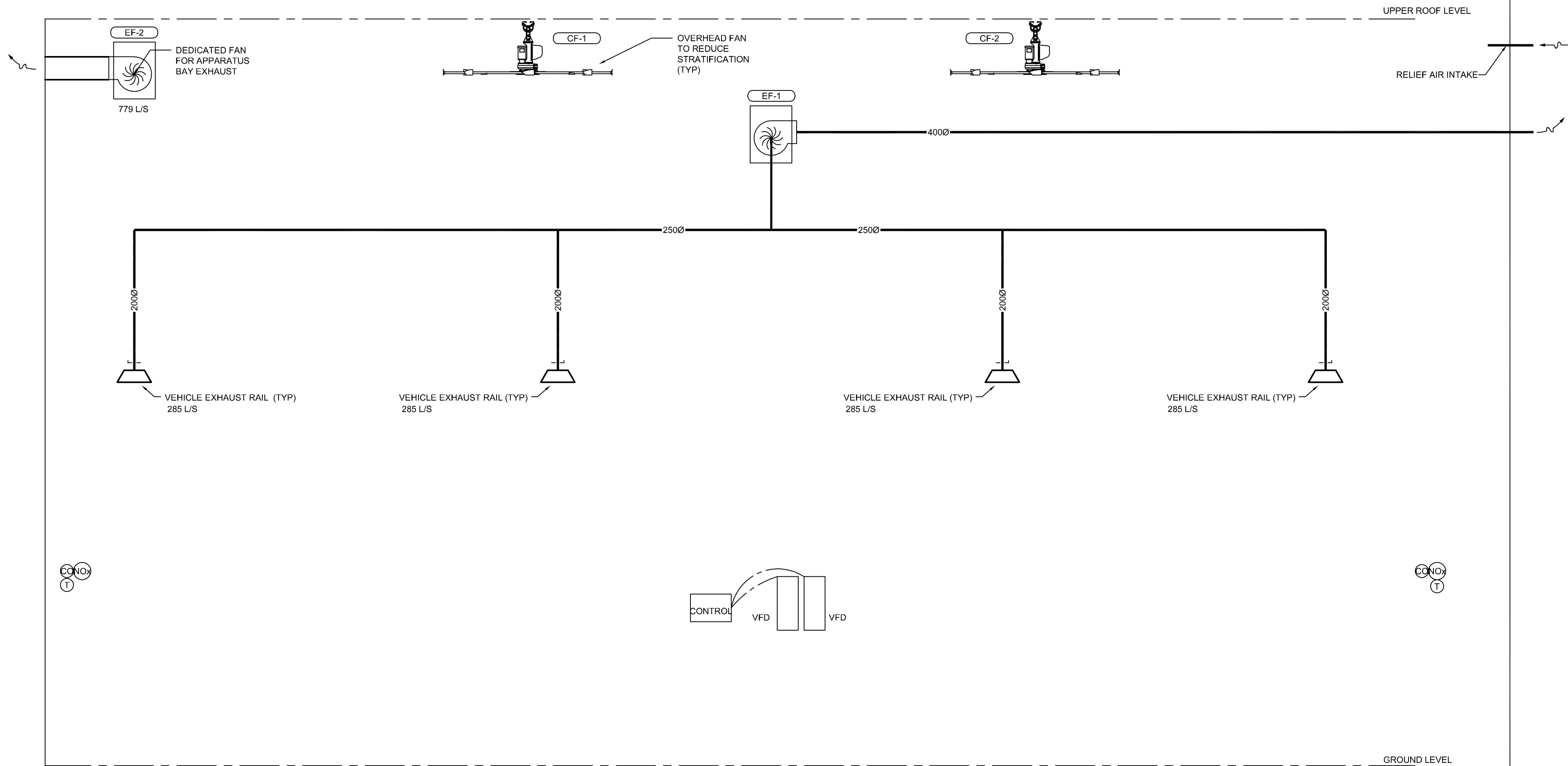


- NOTES:
1. ALL CONTROLS FOR THE COMPRESSOR SYSTEM SHALL BE STAND ALONE, INTEGRAL TO EQUIPMENT.
 2. SEE COMPRESSOR SCHEDULE FOR EQUIPMENT DETAILS.
 3. AIR DRYER TO BE PLACED AS FAR FROM COMPRESSOR AS POSSIBLE.

3 AIR COMPRESSOR SCHEMATIC
M702 SCALE: NTS



2 DOMESTIC HOT WATER SCHEMATIC
M702 SCALE: NTS

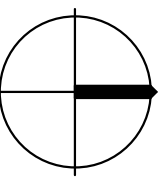


1 APPARATUS BAY VENTILATION
M702 SCALE: NTS

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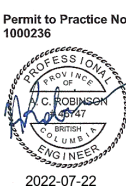
☒ VICTORIA T. 250-382-5999 F. 250-382-5998 721 JOHNSON ST VICTORIA BC V8W 1M8
☐ VANCOUVER T. 604-684-5995 F. 604-684-5993 200 - 438 SMITH ST VANCOUVER BC V6B 1E3
☐ CALGARY T. 403-252-2333 F. 403-252-2334 710 - 1122 4TH ST SW CALGARY AB T2R 1M1
☐ EDMONTON T. 403-252-2333 F. 403-252-2334 3 - 300 KING ST S PRUCE GROVE AB T7X 3C6



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| 3 | 2022-07-18 | ISSUED FOR TENDER |
| 2 | 2022-05-20 | ISSUED FOR COSTING |
| 1 | 2022-03-04 | ISSUED FOR BP |

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

SEAL



STUDIO PA
PRAXIS ARCHITECTS INC.
Heather Spinney, Architect, AIBC
Robert Rochesau, Architect, AIBC
401 - 1245 Esquimalt Rd. Victoria, BC V8A 3P2
250 475 2702
studioipa.ca

PROJECT TITLE
DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE

MECHANICAL SCHEMATICS II

| | | |
|-------------|-------------|-----------|
| DATE | 2022 03 04 | SHEET NO. |
| PROJECT NO. | 145a-004-20 | M702 |
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| DRAWN BY | SW | |


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| 3 | 2022-07-18 | ISSUED FOR TENDER |
| 2 | 2022-05-20 | ISSUED FOR COSTING |
| NO. | DATE | DESCRIPTION |

Permit to Practice No: 1000236

The seal is circular with a double-lined border. The outer ring contains the text 'PROFESSIONAL' at the top and 'ENGINEER' at the bottom. The inner circle contains 'PROVINCE OF' at the top, 'N.C. HOODMAN' in the center, and 'COLUMBIA' at the bottom. A signature is written across the seal.

2022-07-22

PROJECT TITLE

**DASHWOOD FIRE HALL
REPLACEMENT**

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2S2

SHEET TITLE

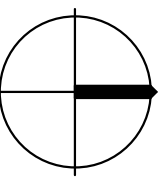
MECHANICAL SCHEMATICS III

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| PROJECT NO. | 145a-004-20 | |
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| DRAWN BY | Author | |

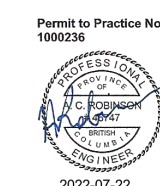


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| <input checked="" type="checkbox"/> | VICTORIA T. 250-382-5999 F. 250-382-5998 721 JOHNSON ST VICTORIA BC, V8W 1M8 | <input type="checkbox"/> | VANCOUVER T. 604-684-5995 F. 604-684-5993 200 - 638 SMITH ST VANCOUVER BC, V6B 1E3 |
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|-----|------------|--------------------|
| 2 | 2022-05-20 | ISSUED FOR COSTING |
| NO. | DATE | DESCRIPTION |



Heather Spinney, Architect, AIBC
Robert Rocheleau, Architect, AIBC

401 - 1245 Esquimalt Rd. Victoria, BC V8A 3P2
250.475.2702 station.ca

DASHWOOD FIRE HALL REPLACEMENT

230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

SHEET TITLE

MECHANICAL DETAILS

| | | |
|-------------|-------------|------------------------------|
| DATE | 2022 03 04 | SHEET NO. M801 |
| PROJECT NO. | 145a-004-20 | |
| SCALE | | |
| DRAWN BY | SW | |



hama
architecture + design

205 - 26 Bastion Square
Victoria BC V8W 1H9

250.382.6650
hama.ca

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Seal

Consultants

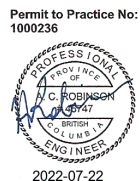
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|---|--|---|
| VICTORIA 7 250-382-6650 2 250-862-8768 72 JENNARD ST VICTORIA, BC V8W 1H6 | VANCOUVER 1 488-484-0995 6 488-684-0995 205 - 408 BELLING ST VANCOUVER, BC V6B 1G3 | SIDNEY 1 488-252-2029 1 488-252-2029 711 - 122-815 11887 1M CAUSART AB 2B 1M1 |
|---|--|---|

Key plan



Issued for



Project title
**DASHWOOD FIRE
HALL REPLACEMENT**

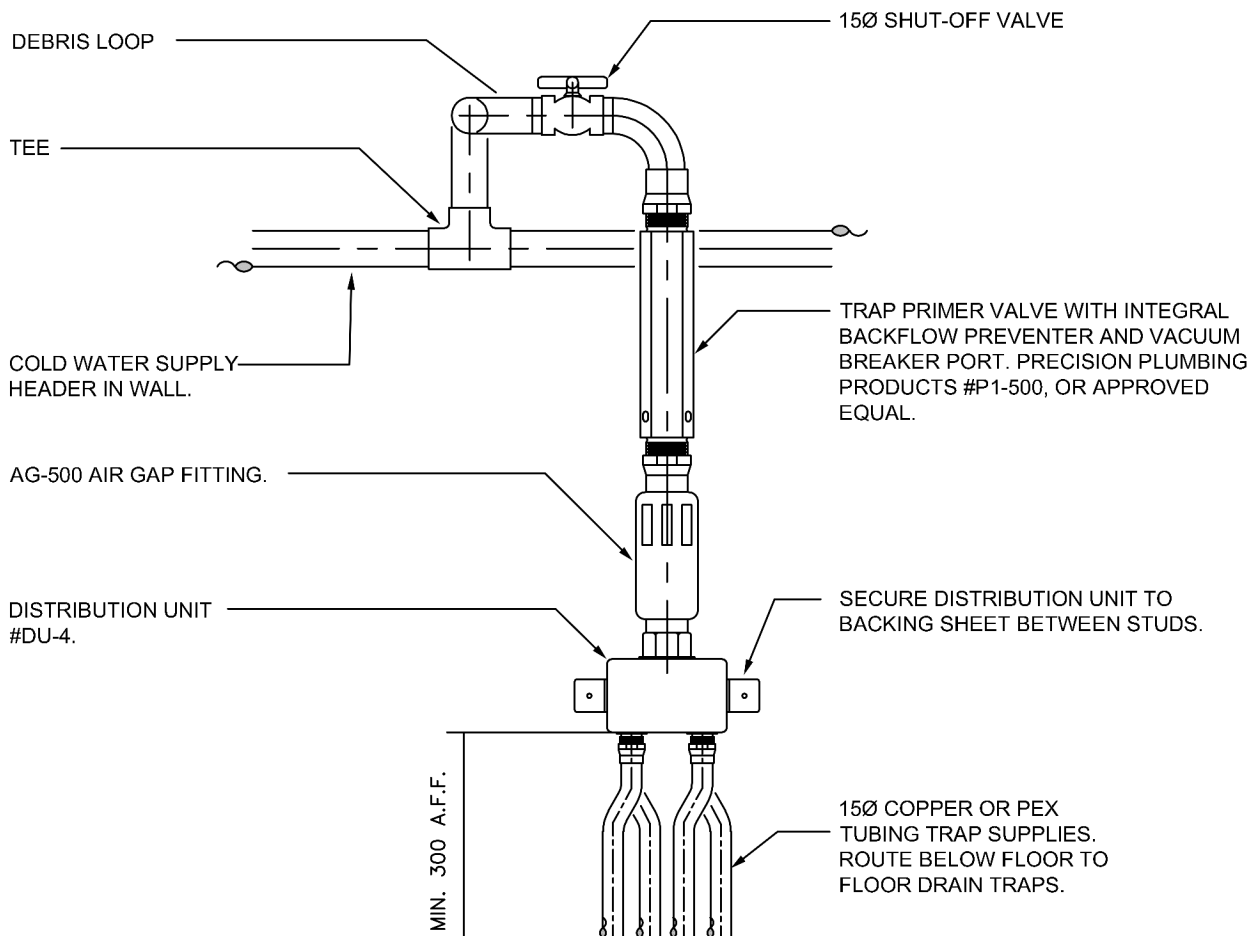
Client

Site address
230 HOBBS ROAD
QUALICUM BEACH BC
V9K 2B2

Sheet title
MECHANICAL DETAILS

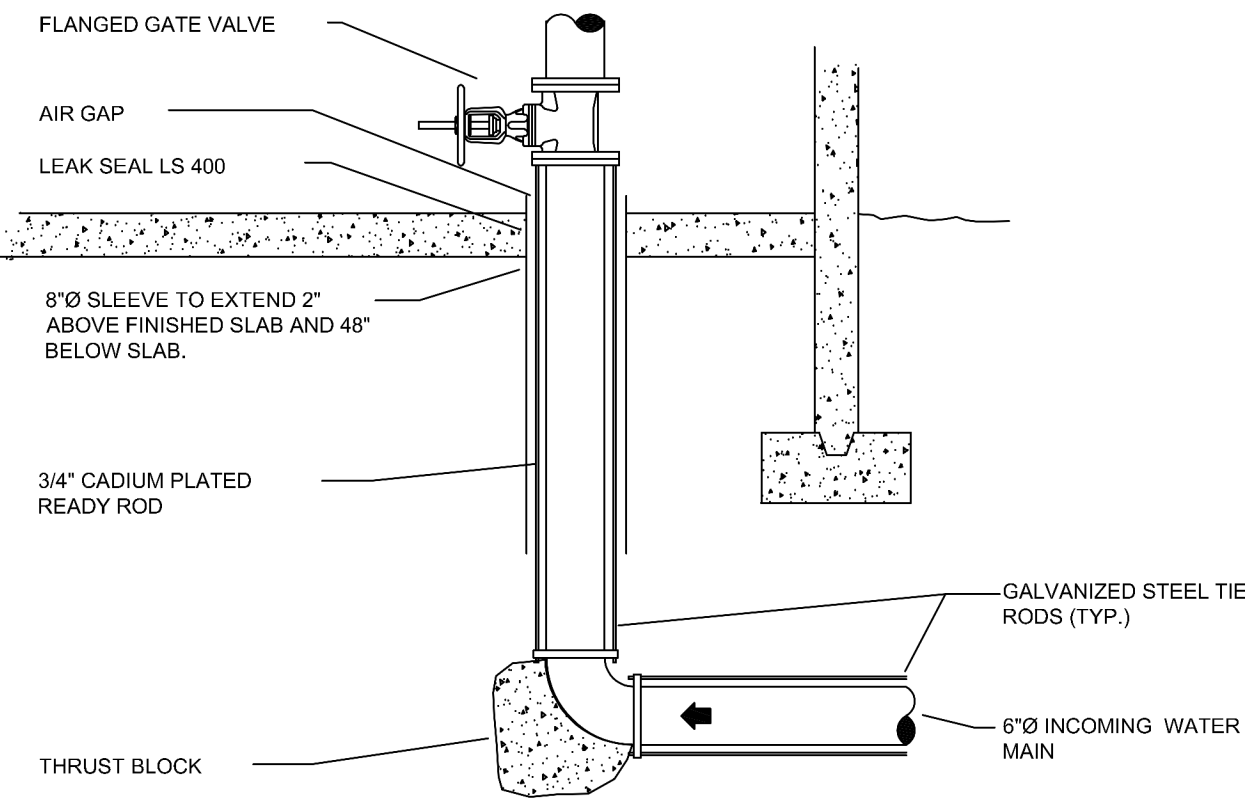
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Sheet number Revision number

M802

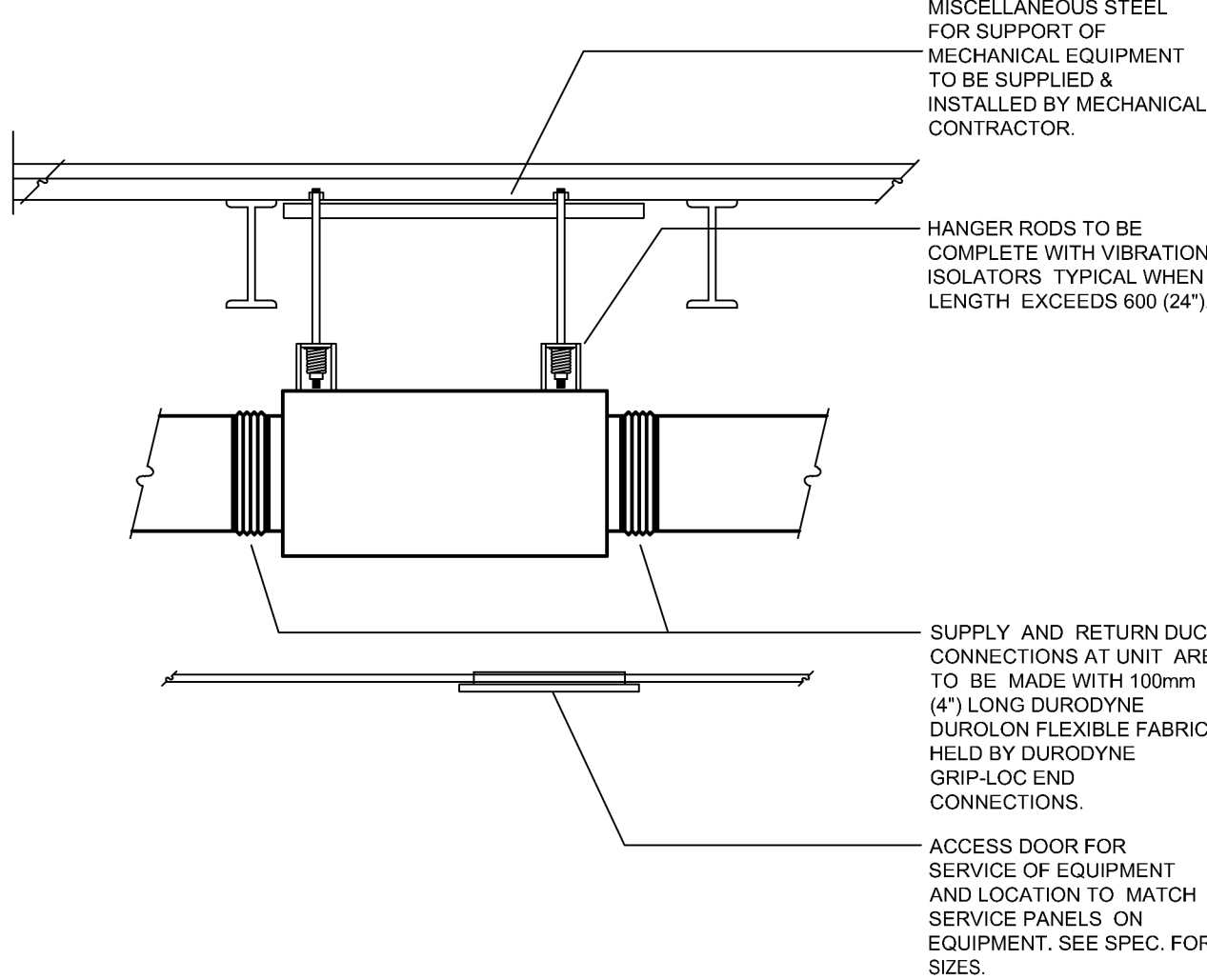


DETAIL NOTES
1. ALL DIMENSIONS IN MM.
2. MOUNT ASSEMBLY WITHIN WALL CAVITY AND PROVIDE ACCESS PANEL.
3. FOR PROPER FUNCTION, DO NOT INSTALL OFF A COLD WATER PIPE LARGER THAN 300

04 TRAP PRIMER DETAIL
M802 SCALE: NTS

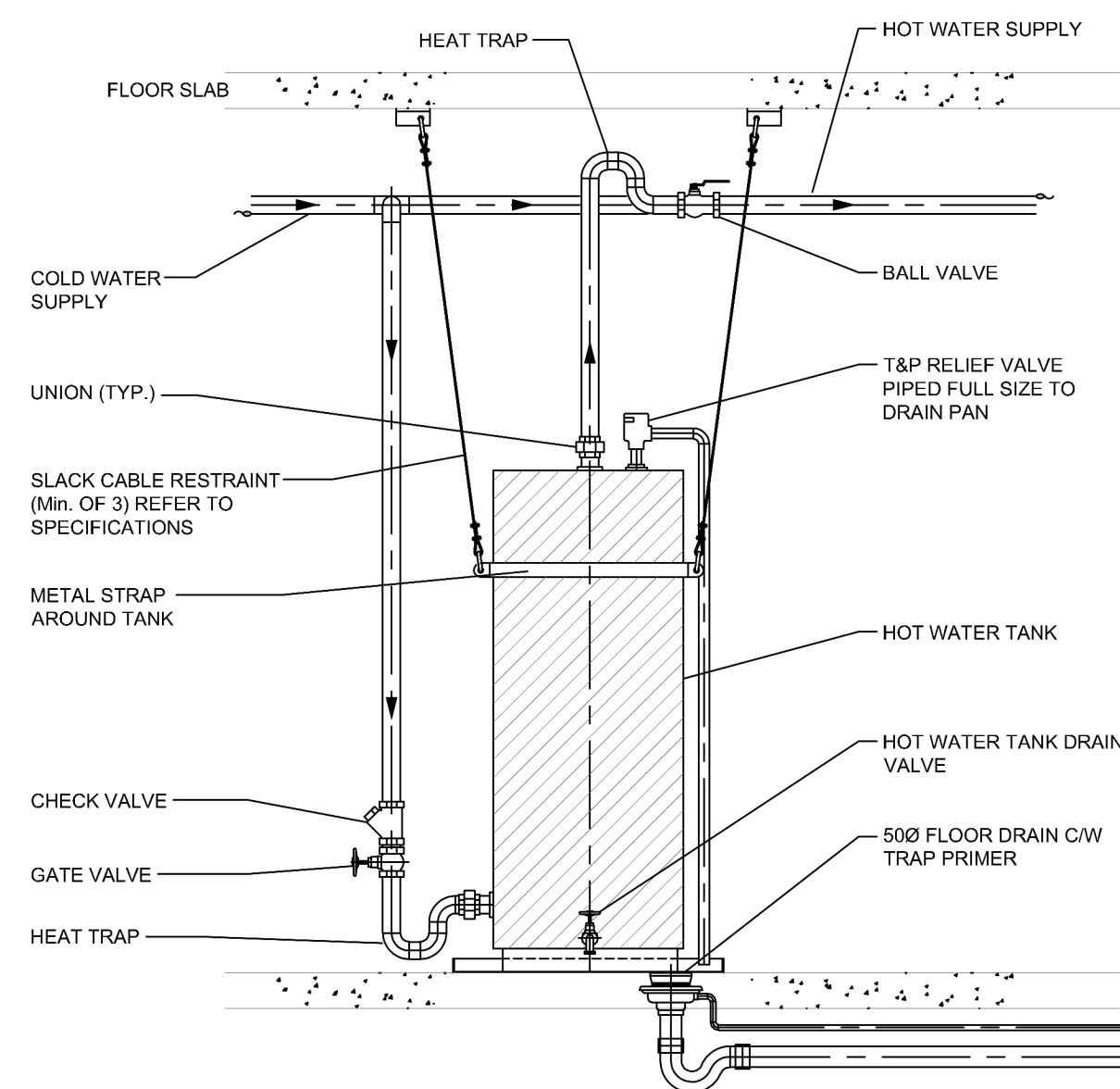


02 BUILDING WATER ENTRY SERVICE MAIN
M802 SCALE: NTS

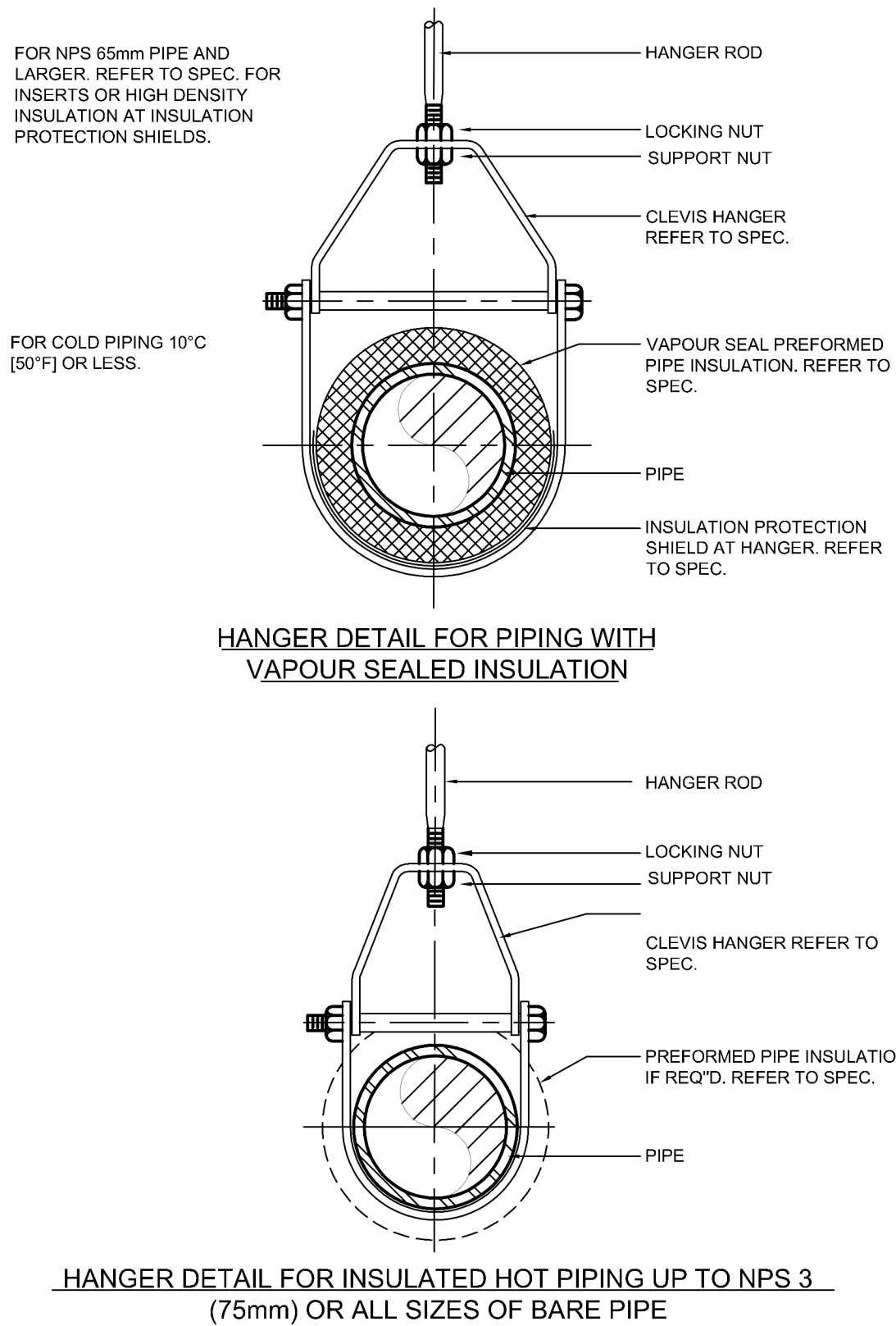


DETAIL NOTES
1. DETAIL APPLICABLE TO SUPPLY FANS, EXHAUST FANS, FAN COIL UNITS, HEAT PUMPS, UNIT HEATERS, ETC.

05 TYPICAL SUSPENDED MECHANICAL EQUIPMENT
M802 SCALE: NTS



03 DOMESTIC HOT WATER TANK
M802 SCALE: NTS



01 PIPE HANGERS
M802 SCALE: NTS