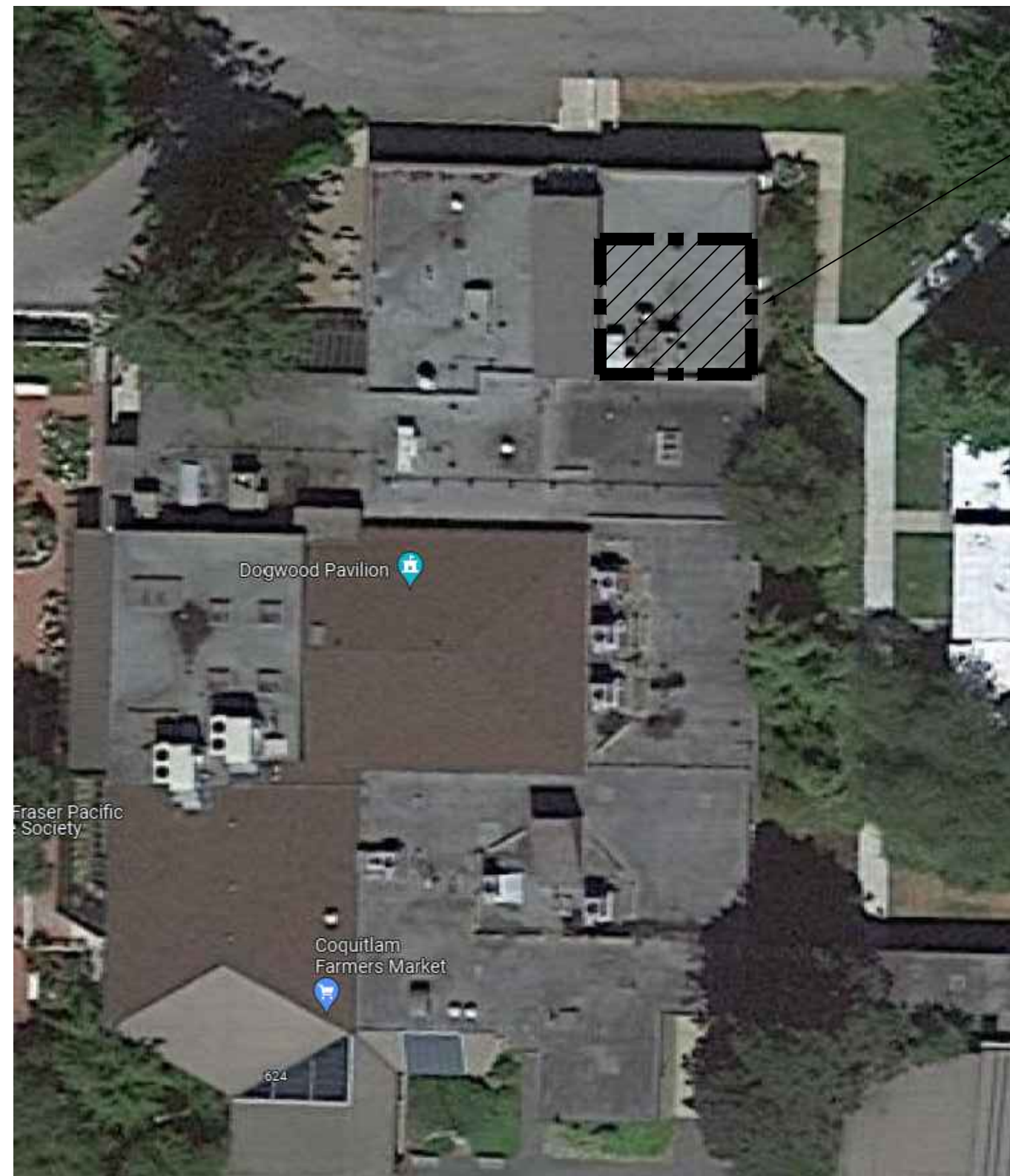


CITY OF COQUITLAM - DOGWOOD PAVILION - DUST EXTRACTION REPLACEMENT

1655 WINSLOW AVENUE, COQUITLAM, BC



APPROXIMATE SCOPE OF WORK AREA

1 SITE PLAN
M0.00 SCALE: N.T.S.



AIR RECEIVER TANK					
EQUIPMENT TAG	MANUFACTURER	MODEL	TANK SIZE (GALLONS)	DIMENSIONS (DIAxL) (IN)	NOTES
AT-1	INGERSOLL RAND	38020012	30	16x38	ALL
NOTES:					
1	VERTICAL TANK				
2	STEEL TANK				
3	COMPLETED WITH DRAIN PAN BELOW				

DUST COLLECTOR							
EQUIPMENT TAG	LOCATION	MANUFACTURER	MODEL	AIRFLOW (CFM)	E.S.P. (IN. WG)	POWER (HP)	NOTES
DC-1	STORAGE	DONALDSON TORIT	UMA 250	2500	9	10	ALL
NOTES:							
1	FILTER, STARTER, CARTRIDGE, AND BARRELS PACKAGE TO BE PROVIDED BY SUPPLIER						
2	NEOPRENE GASKET BELOW UNIT IS TO BE INSTALLED						

AUTOMATIC BLAST GATE						
EQUIPMENT TAG	MANUFACTURER	MODEL	SIZE	OVERALL DIMENSIONS (IN)	VOLT/PH./Hz	NOTES
ABG-1	NORDFAB	NFES 3245	3	16x6.38x5.50	120/1/60	ALL
ABG-2	NORDFAB	NFES 3245	4	16x6.30x5.50	120/1/60	ALL
ABG-3	NORDFAB	NFES 3245	5	17.5x7.50x5.25	120/1/60	ALL
ABG-4	NORDFAB	NFES 3245	6	20.5x8.66x5.25	120/2/60	ALL
NOTES:						
1	GALVANIZED STEEL GATES					
2	14 GAUGE					
3	COMPLETED PACKAGE CONTROL PROVIDED BY SUPPLIER					

AIR COMPRESSOR									
EQUIPMENT TAG	MANUFACTURER	MODEL	MAX. PRESS. (PSI)	TANK CAPACITY (GALLONS)	POWER (HP)	VOLT/PH./Hz	DIMENSIONS (LxWxH) (IN)	WEIGHT (LBS)	NOTES
AC-1	SWAN	DA-103	115	10	3.0	120/1/60	28x16x27	99	ALL
NOTES:									
1	DRAIN PAN BELOW THE COMPRESSOR IS TO BE PROVIDED								

MECHANICAL DRAWING LIST		
DRAWINGS NO.	COVER PAGE	DESCRIPTION
M0.00		N.T.S.
M1.00		DEMOLITION PLAN AS NOTED
M1.01		RENOVATION PLAN AS NOTED
M2.00		MECHANICAL SPECIFICATIONS N.T.S.

- ### MECHANICAL GENERAL NOTES
- THE MECHANICAL SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON THE DRAWINGS, DIAGRAMS, SCHEMATICS AND AS DESCRIBED IN THE SPECIFICATIONS.
 - THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL CONSTRUCTION DETAILS.
 - COORDINATE THE DRAWINGS WITH THE SPECIFICATIONS AND IN CASES WHERE CONFLICTS OCCUR THE MOST STRINGENT REQUIREMENT SHALL APPLY.
 - CONTRACTOR TO COORDINATE ALL MECHANICAL WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER AND ADEQUATE INTERFACE WITH THE WORK OUTLINED FOR THIS PROJECT.
 - CONTRACTOR TO PROVIDE HORIZONTAL AND VERTICAL CLEARANCE REQUIREMENTS AS PER CEC (CANADIAN ELECTRICAL CODE) FOR ALL INSTALLED EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED TO MEET THIS REQUIREMENT.
 - MECHANICAL EQUIPMENT SHALL NOT BE USED FOR TEMPORARY HEATING DURING THE CONSTRUCTION PROCESS. A WRITTEN LETTER FROM THE OWNER IS REQUIRED TO DO SO.
 - ALL DUCTWORK SIZES ARE SHOWN AS INSIDE CLEAR. ADD APPROPRIATE DIMENSION FOR INSULATION OR DUCT LINER TO OBTAIN "TOTAL DUCT SIZE".
 - CONTRACTOR TO ALLOW AND PROVIDE FOR METAL DUCTWORK TRANSITIONS BETWEEN ALL EQUIPMENT AND DUCT CONNECTIONS.
 - COORDINATE EXACT LOCATIONS OF ALL ROOM THERMOSTATS AND/OR ROOM TEMPERATURE SENSORS WITH THE DESIGN ARCHITECT BEFORE FINAL INSTALLATION.

- ### MECHANICAL RENOVATION NOTES
- THE CONTRACTOR SHALL BE REQUIRED TO ATTEND A PRE-INVESTIGATION WALK THROUGH TO ENSURE A PROPER UNDERSTANDING OF THE MECHANICAL SCOPE OF WORK.
 - CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND VERIFYING ACTUAL ON-SITE CONDITIONS AND EQUIPMENT LOCATIONS PRIOR TO ANY AND ALL DEMOLITION WORK AND/OR EQUIPMENT REMOVAL.
 - CONTRACTOR TO INCLUDE AS A PART OF THE PROPOSAL ALL COSTS ASSOCIATED WITH CUTTING AND PATCHING THAT IS REQUIRED TO INSTALL ALL NEW MECHANICAL SYSTEMS AS REQUIRED TO MEET THE SITE CONDITIONS AS SHOWN ON THE DRAWINGS. PATCHING SHALL MEET THE AESTHETIC CONDITIONS WHICH WAS THE CONDITION PRIOR TO ANY CUTTING BEING PERFORMED.
 - CONTRACTOR TO PROPERLY SEAL AND REPAIR ANY AND ALL DAMAGE THAT IS A RESULT OF REMOVAL OR DEMOLITION OF MECHANICAL EQUIPMENT. THIS INCLUDES BUT IS NOT LIMITED TO WALL, DOOR, CEILINGS, ETC.
 - THE EXISTING FACILITIES MECHANICAL SYSTEMS SHALL REMAIN OPERATIONAL DURING THE CONSTRUCTION AND RENOVATION PERIOD. CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES AND PHASING WITH OWNER TO MINIMIZE DISRUPTIONS TO OWNERS OPERATIONS AND ACCESS, AND TO ENSURE SAFETY OF THE USERS. PROVIDE ALL MEASURES REQUIRED TO PREVENT HAZARDS TO PEOPLE AND DAMAGE TO ITEMS REMAINING INCLUDING BUT NOT LIMITED TO DAMAGE FROM DUST AND HEAT.
 - THE EXISTING DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. AS A RESULT, THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT.
 - DURING REMOVAL OF ITEMS SO INDICATED, CAUTION SHOULD BE USED TO PREVENT DAMAGE TO ANY EQUIPMENT HAVING SALVAGE VALUE. ALL REUSABLE SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND BE RETAINED FOR THEIR INSPECTION. ONLY ITEMS AGREED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
 - CONTRACTOR SHALL COORDINATE AND SCHEDULE WORK WITH FACILITY TO LIMIT INTERFERENCE WITH OPERATIONS.

ROOFTOP UNIT SCHEDULE	
TAG	RTU-1
LOCATION	ROOF
SERVICE	WOODWORKING
MANUFACTURER	ENGINEERED AIR
MODEL	DJE20/O/R
VOLT (V/PH/CYC)	208/3/60
MCA	8.1
SUPPLY FAN	
NORMAL VOLUME (CFM)	2,000
EXTERNAL STATIC (INCH)	1.30
FAN TYPE	BELT DRIVE
FAN SPEED (RPM)	1,934
MOTOR (HP)	0.78
HEATING SECTION	
INPUT CAPACITY (MBH)	200
OUTPUT CAPACITY (MBH)	160
TURNDOWN RATIO	15:1
TEMPERATURE RISE (DEG. F)	74
FILTERS	
MAIN FILTER	MERV 8
DIMENSIONS	
L x W x H (IN)	82 x 67 x 33
WEIGHT (LBS)	1,200
NOTES:	
1	SINGLE POINT POWER CONNECTION TO UNIT
2	BOTTOM SUPPLY AND BOTTOM RETURN
3	NEW UNIT TO SIT ON EXISTING ROOF CURB

MECHANICAL ABBREVIATIONS	
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
BB	BASEBOARD HEATER
BDD	BACKDRAFT DAMPER
BF	BOTTLE FILLER
BFP	BACKFLOW PREVENTER
BHP	BREAK HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BT	BATH TUB
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUT
CONN	CONNECTION
CW	COMPLETE WITH
CONT	CONTINUATION
CTE	CONNECT TO EXISTING
DB	DRY BULB
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DUC	DUAL CHECK VALVE
DW	DISH WASHER
DWG	DRAWING
E/A	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FA	FROM ABOVE
FB	FROM BELOW
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FFD	FUNNEL FLOOR DRAIN
FLA	FULL LOAD AMPS
FLR	FLOOR
FFM	FEET PER MINUTE
GPM	GALLONS PER MINUTE
GWB	GYPSPUM WALL BOARD
HD	HUB DRAIN
HB	HOSE BIBB
HP	HORSEPOWER
ID	INSIDE DIAMETER
INV	INVERT
JS	JANITOR SINK
KW	KILOWATT
KS	KITCHEN SINK
LV	LAVATORY
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MH	MANHOLE
MBH	1000 BRITISH THERMAL UNITS/HOUR
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MIN	MINIMUM
NFBH	NON FREEZE HOSE BIB
NIC	NOT IN CONTRACT
NC	NOISE CRITERIA/NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O/A	OUTDOOR AIR
ODB	OPPOSED BLADE DAMPER
OED	OPEN ENDED DUCT
OD	OUTSIDE DIAMETER
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
R/A	RETURN AIR
RF	RETURN FAN
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RWL	RAIN WATER LEADER
S/A	SUPPLY AIR
SF	SUPPLY FAN
SH	SHOWER
SK	SINK
SS	STAINLESS STEEL
SP	STATIC PRESSURE
SPEC	SPECIFICATION
ST	STORM
T/A	TRANSFER AIR
TA	TO ABOVE
TB	TO BELOW
TBC	TO BE CONFIRMED
TBD	TO BE DETERMINED
TD	TRENCH DRAIN
THRU	THROUGH
TS	TAMPER SWITCH
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UR	URNAL
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
W	WATER MAIN
WB	WET BULB
WC	WATER CLOSET
WG	WATER GAUGE

SYMBOL SCHEDULE	
PIPING SYSTEMS	
—	DOMESTIC COLD WATER (DCW)
—	DOMESTIC HOT WATER (DHW)
—	DOMESTIC HOT WATER RECIRC. (DHWRI)
—	SANITARY VENT
—	SANITARY SEWER ABOVE GRADE
—	SANITARY SEWER BELOW GRADE
—	STORM SEWER ABOVE GRADE
—	STORM SEWER BELOW GRADE
—	DRAIN TILE
—	IRRIGATION
—	GAS
—	CONDENSATE DRAIN
—	HEATING WATER SUPPLY
—	HEATING WATER RETURN
—	CHILLED WATER SUPPLY
—	CHILLED WATER RETURN
—	CONDENSER WATER SUPPLY
—	CONDENSER WATER RETURN
—	REFRIGERANT SUCTION(GAS)
—	REFRIGERANT LIQUID
FITTINGS AND VALVES	
→	DIRECTION OF FLOW
—	PIPE DROP
—	PIPE RISE
—	PIPE TEE UP
—	PIPE TEE DOWN
—	PIPE UNION
—	PIPE CLEAN-OUT
—	PIPE CLEAN-OUT TO GRADE
—	PIPE CAP-OFF
—	ISOLATION VALVE
—	ISOLATION VALVE (NORMALLY CLOSED)
—	CHECK VALVE
—	2-WAY CONTROL VALVE
—	3-WAY CONTROL VALVE
—	SOLENOID VALVE
—	BALANCING VALVE
—	CIRCUIT SETTER VALVE
—	PRESSURE REDUCING VALVE
—	PRESSURE INDEPENDENT VALVE
—	STRAINER
—	RELIEF VALVE
—	BACKFLOW PREVENTOR
—	AUTOMATIC AIR VENT
—	SEISMIC GAS SHUT-OFF VALVE
—	PIPE ANCHOR
—	EXPANSION JOINT
—	FLEX COUPLING
—	PIPE SLEEVE
—	HEAT TRACING
OUTLETS AND DRAINS	
—	OPEN DRAIN
—	HOSE-BIBB
—	FLOOR DRAIN
—	FUNNEL FLOOR DRAIN
—	ROOF DRAIN
—	AREA DRAIN
—	P-TRAP
—	VENT TO ABOVE
MECHANICAL EQUIPMENT	
—	PUMP
—	CABINET FAN
—	PROPELLER FAN
—	UNIT HEATER
—	FORCE FLOW HEATER
—	REHEAT COIL
SYSTEM MONITORING AND CONTROLS	
—	ROOM TEMPERATURE SENSOR
—	REVERSE ACTING TEMPERATURE SENSOR
—	TEMPERATURE SENSOR
—	HUMIDITY SENSOR
—	CO ₂ SENSOR
—	PIPE TEMPERATURE SENSOR
—	PRESSURE GAUGE
—	THERMOMETER
—	FLOW SWITCH
—	GAS METER
—	WATER METER
—	CONTROL WIRING
DUCTWORK	
—	SUPPLY OR OUTDOOR AIR DUCT UP
—	SUPPLY OR OUTDOOR AIR DUCT DOWN
—	RETURN AIR DUCT UP
—	RETURN AIR DUCT DOWN
—	EXHAUST AIR DUCT UP
—	EXHAUST AIR DUCT DOWN
—	TURNING VANES
—	ACOUSTIC INSULATION
—	BALANCING DAMPER
—	BACKDRAFT DAMPER
—	MOTORIZED DAMPER
—	FIRE DAMPER - VERTICAL
—	FIRE DAMPER - HORIZONTAL
—	FIRE/SMOKE DAMPER
—	DUCT CAP-OFF
—	RETURN OR EXHAUST AIR GRILLE
—	UNDER-CUT DOOR

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REV.	DATE	DESCRIPTION
1.	2024.08.21	ISSUED FOR REVIEW
2.	2024.08.28	ISSUED FOR RFP
3.	2024.09.10	ISSUED FOR ADDENDUM 1

CONSULTANT:

SEAL:

PROJECT TITLE:
DOGWOOD PAVILION - DUST EXTRACTION REPLACEMENT

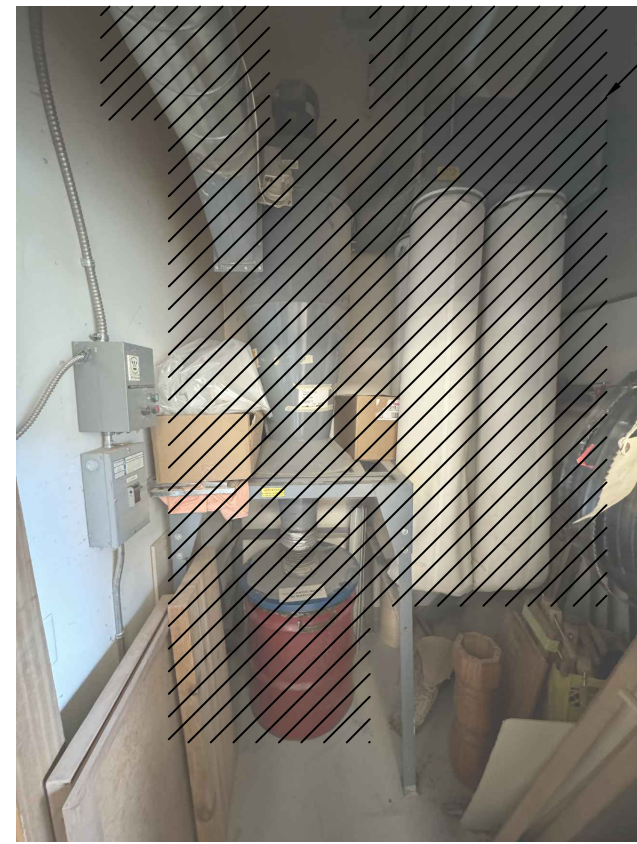
PROJECT ADDRESS:
1655 WINSLOW AVE
COQUITLAM, BC
V3J 6B1

DRAWN BY: JH
CHECKED BY: MC
SCALE: N.T.S.
DATE: SEPTEMBER 10, 2024

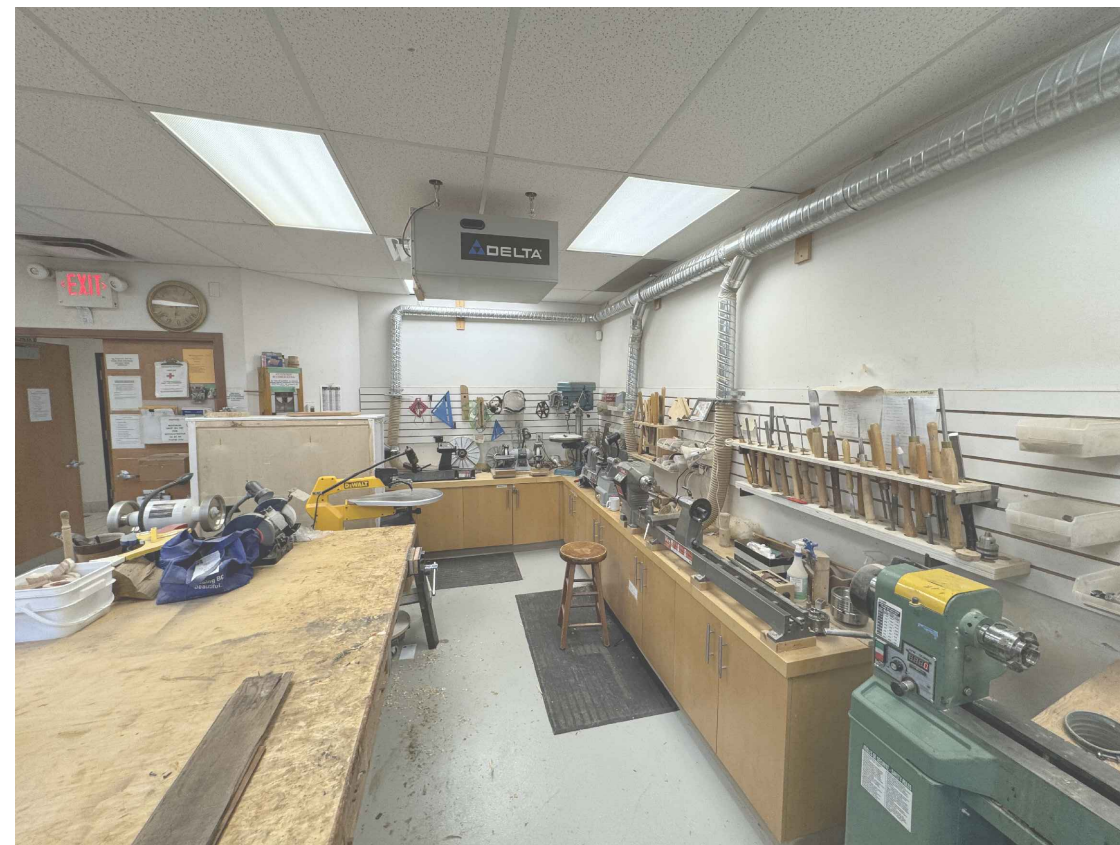
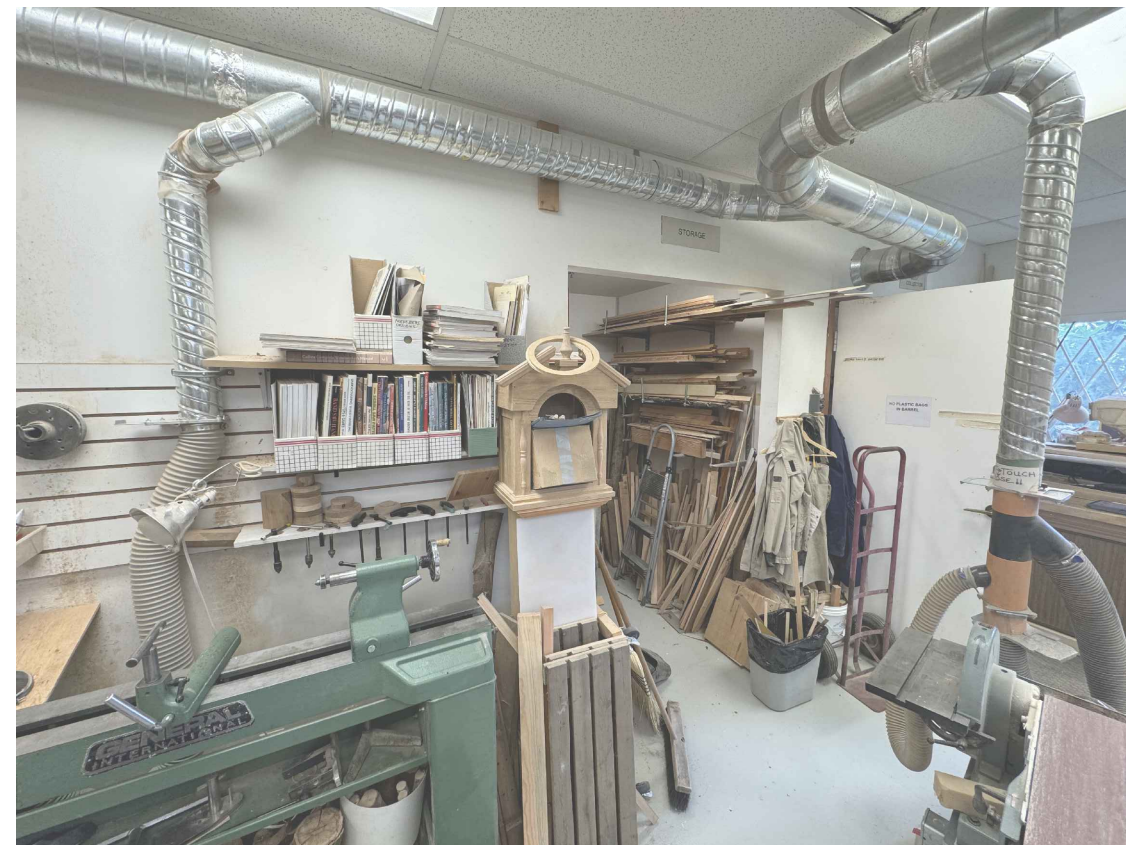
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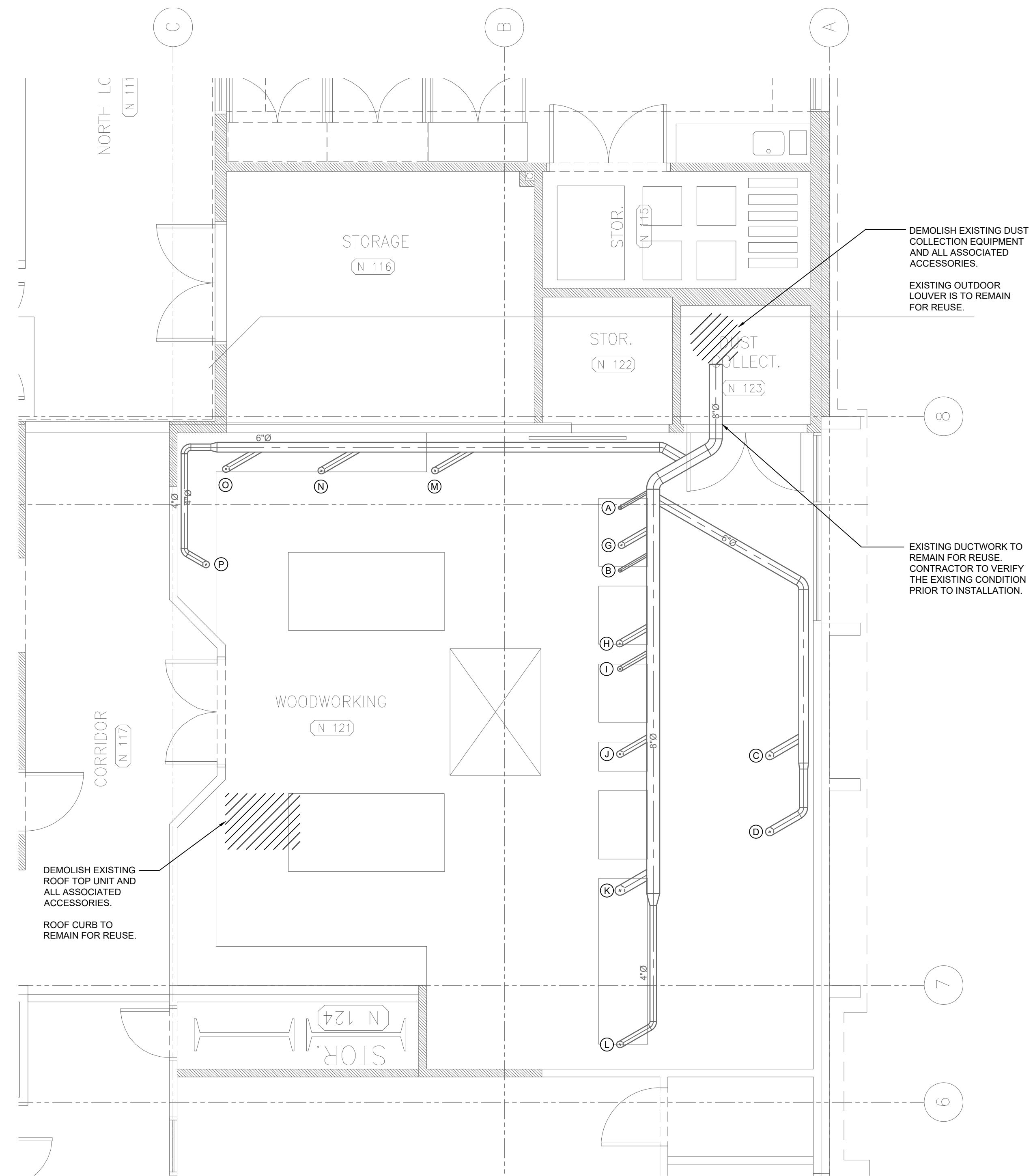


DEMOLISH EXISTING DUST COLLECTION EQUIPMENT AND ALL ASSOCIATED COMPONENTS.
 EXISTING OUTDOOR LOUVER IS TO REMAIN FOR REUSE.



DEMOLISH EXISTING RTU

EXISTING ROOF CURB AND CONNECTIONS TO REMAIN FOR REUSE



1 DEMOLITION PLAN
 M1.00 SCALE: 1/4" = 1'-0"

CONSULTANT:

SEAL:

PROJECT TITLE:
DOGWOOD PAVILION - DUST EXTRACTION REPLACEMENT

PROJECT ADDRESS:
 1655 WINSLOW AVE
 COQUITLAM, BC
 V3J 6B1

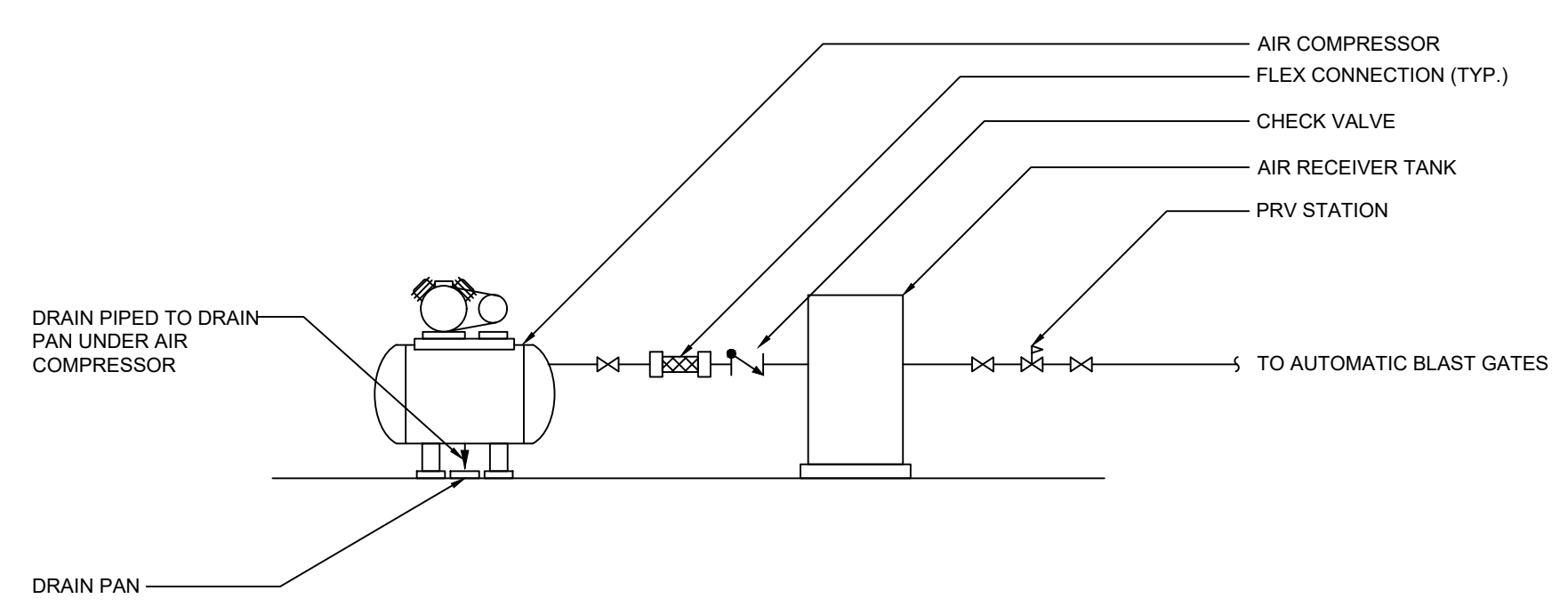
DRAWN BY	JH
CHECKED BY	MC
SCALE	AS NOTED
DATE	SEPTEMBER 10, 2024

DRAWING TITLE:
DEMOLITION PLAN

PROJECT NO.	DRAWING NO.
025b-009-24	M1.00

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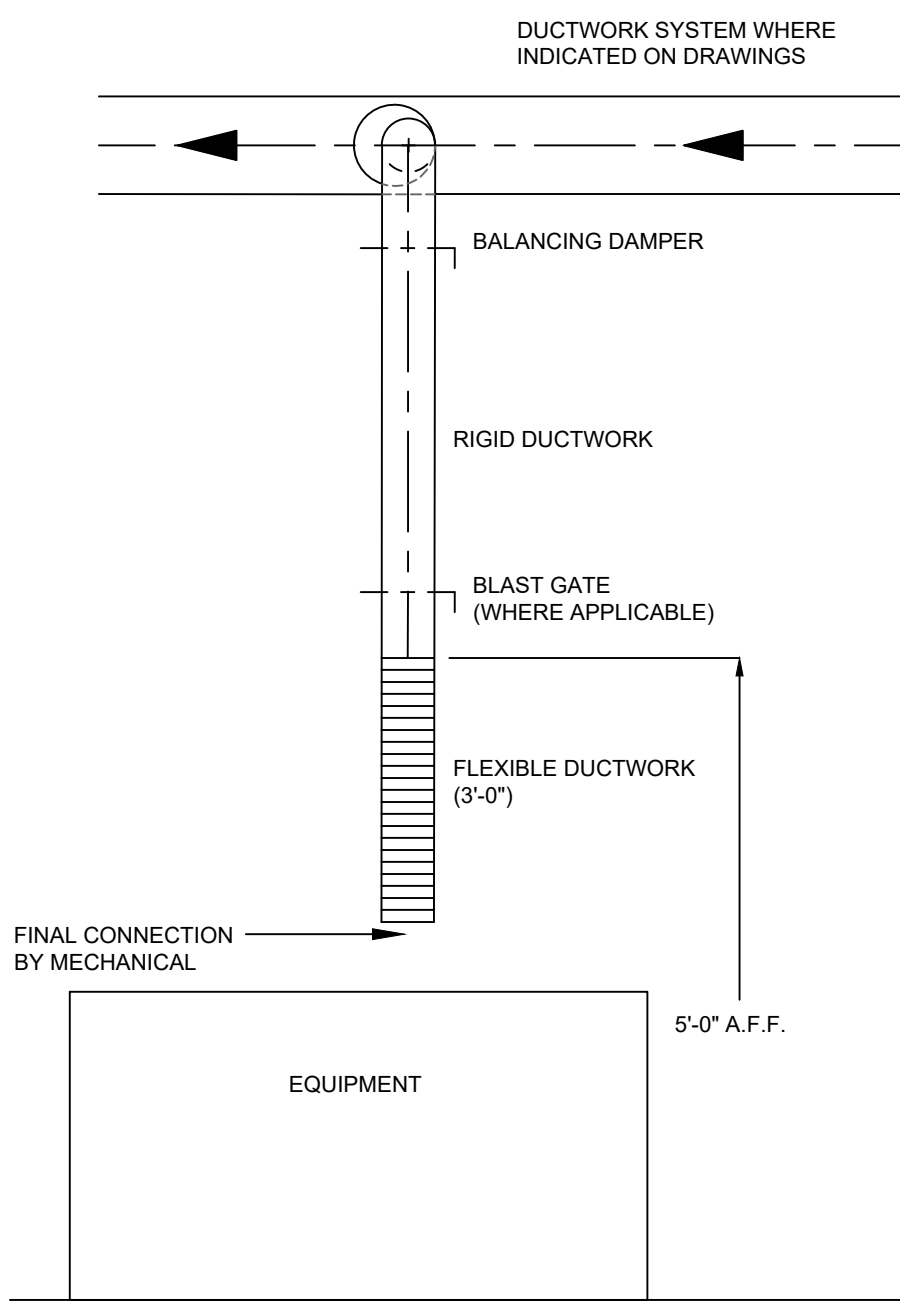
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DETAIL NOTES

- ALL TAKE OFFS TO COME OFF THE TOP OF THE MAIN AND DOWN.
- ALL AIR LINES TO SLOPE TO THE FURTHEST POINT.
- REFER TO DRAWINGS FOR ALL PIPE SIZES.
- AIR COMPRESSOR SERVES AUTOMATIC BLAST GATES.
- DRAIN PAN TO BE INSTALLED UNDER AIR COMPRESSOR. AIR COMPRESSOR DRAIN PIPED TO DRAIN PAN.

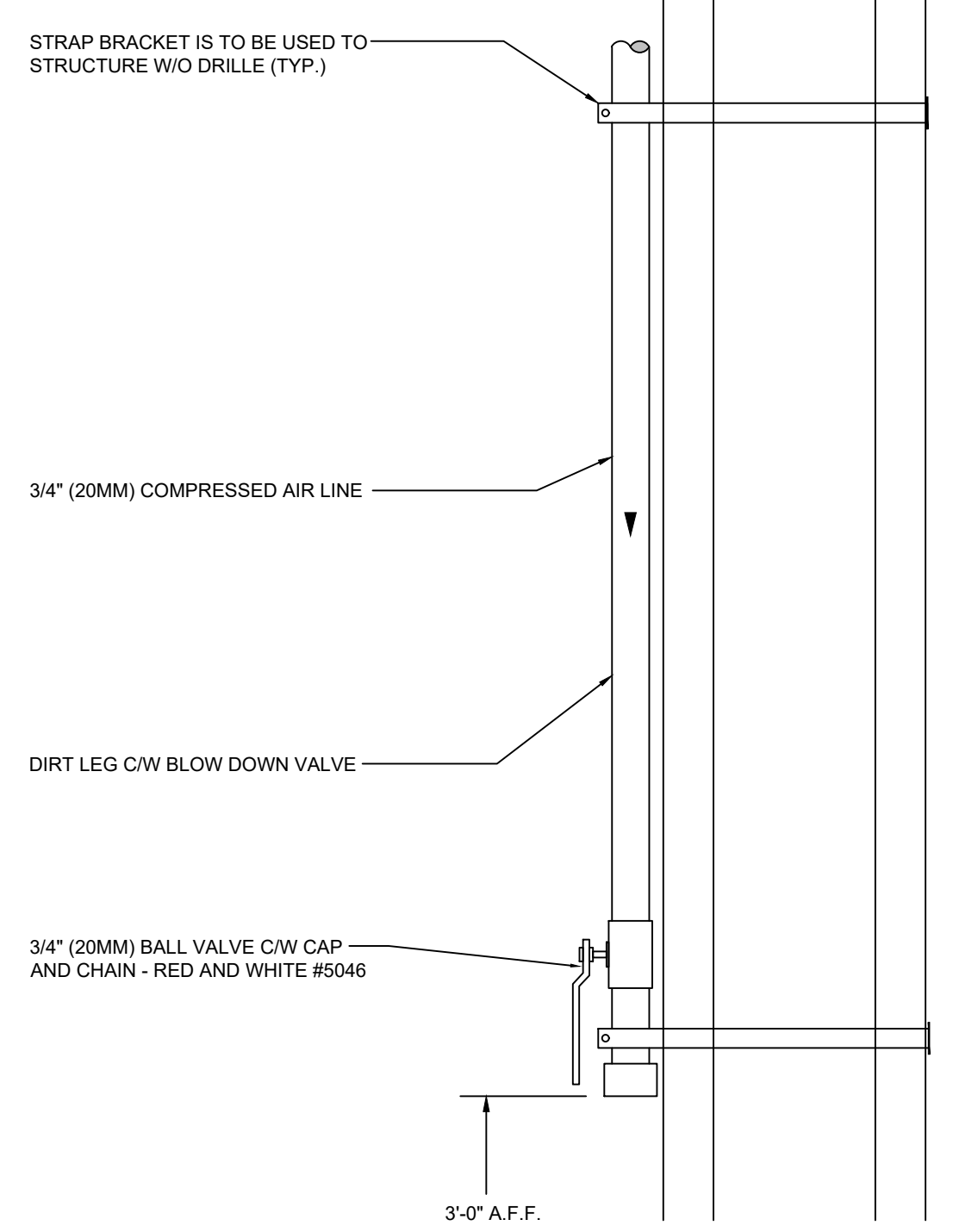
2 COMPRESSED AIR SYSTEM SCHEMATIC - HORIZONTAL
 SCALE: NTS



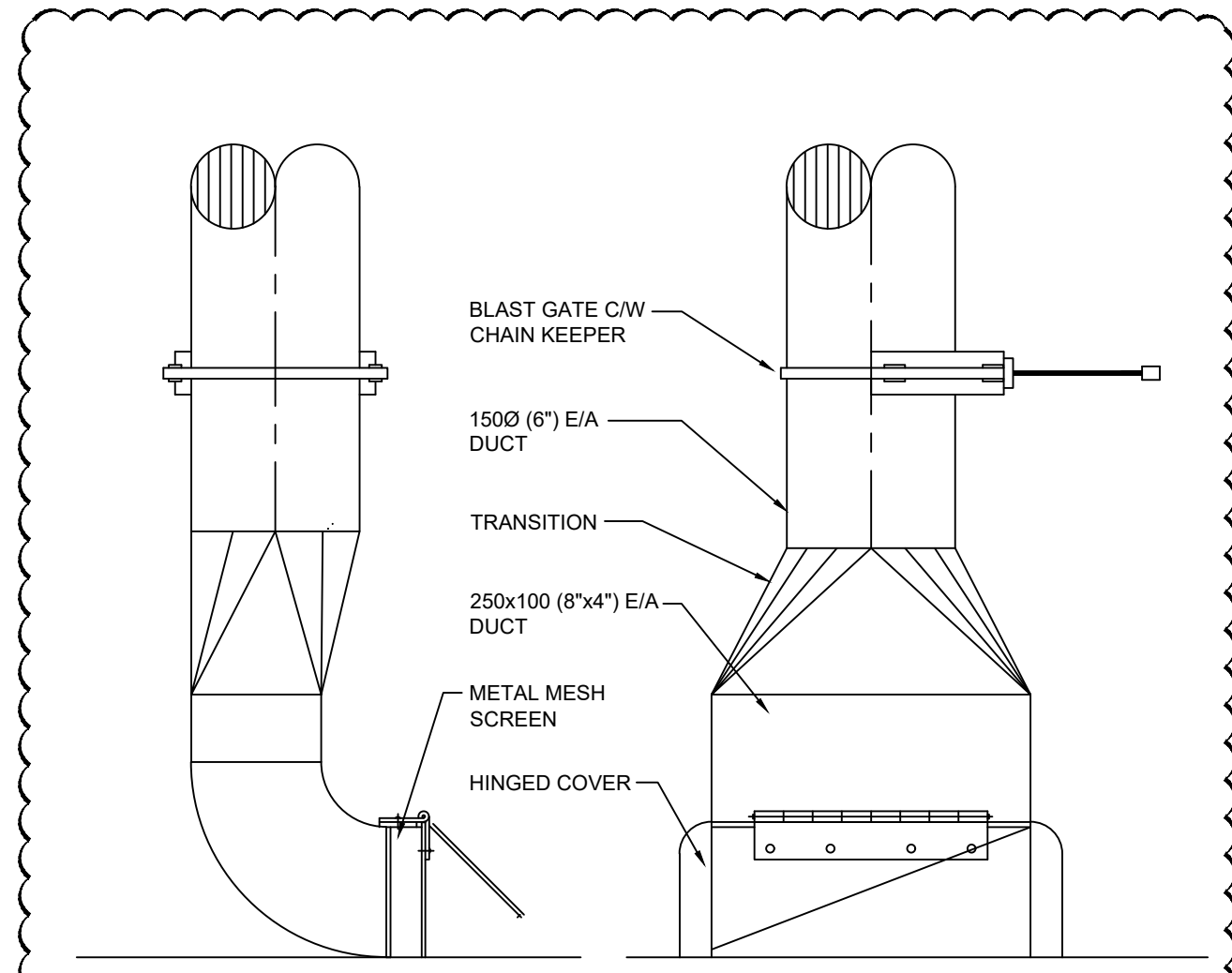
DETAIL NOTES

- FLEXIBLE DUCT TO BE FLEXHAUST FLEX-TUBE EF, FLEXMASTER TRIPLE LOCK, OR APPROVED ALTERNATE.

4 EXHAUST TAKE OFF DETAIL
 SCALE: NTS



3 COMPRESSED AIR DRIP LEG
 SCALE: NTS

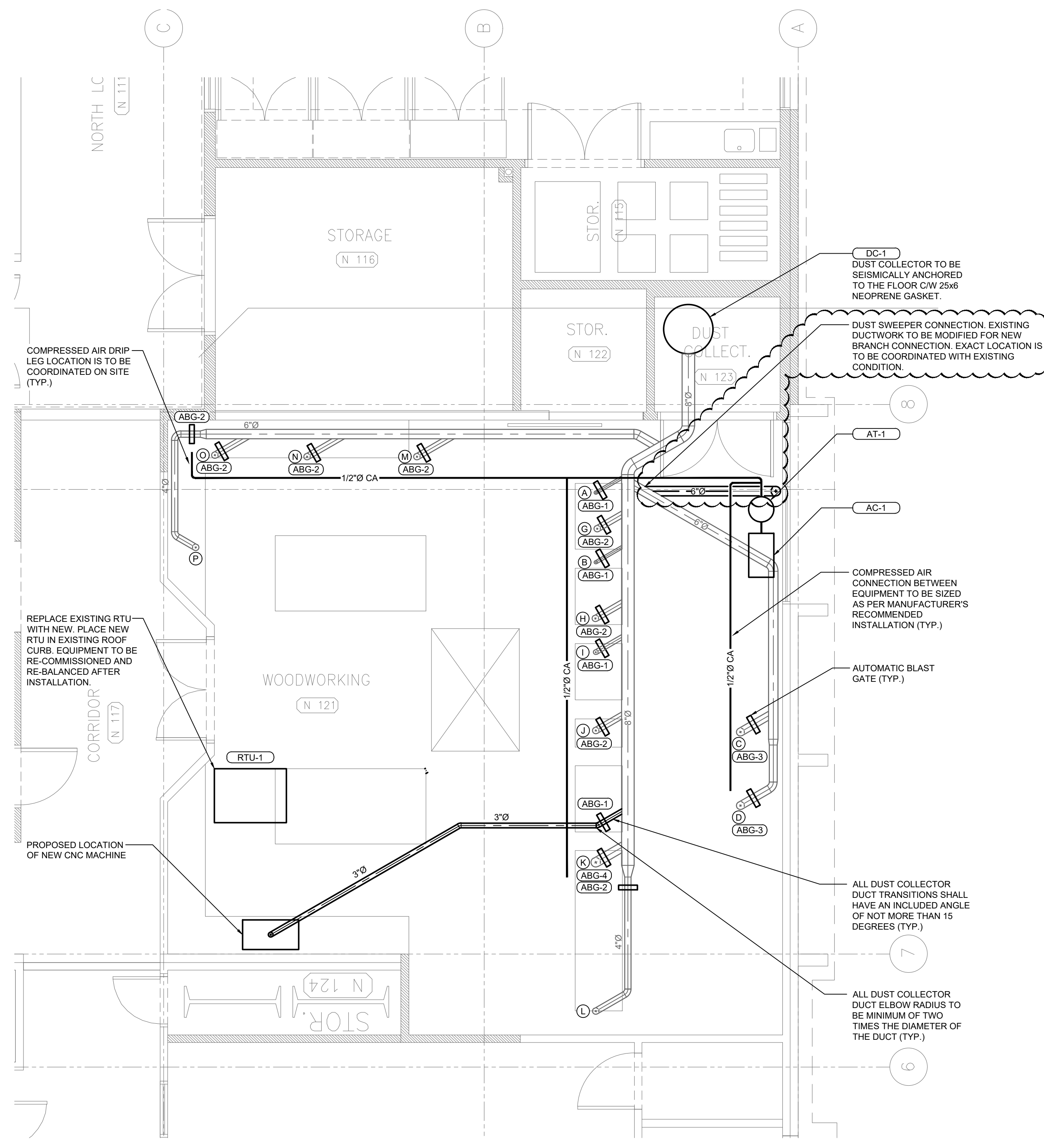


DETAIL NOTES

- FLOOR SWEEP TO BE CONSTRUCTED OF 1.3mm (16 Ga.) SHEET METAL
- ALL JOINTS TO BE CONTINUOUSLY WELDED AND GROUND TO A SMOOTH FINISH
- HOOD & DUCTWORK SHALL BE PAINTED OFF WHITE BAKED ENAMEL FINISH UNLESS NOTED OTHERWISE

TYPE OF DUST: FINE
 FACE VELOCITY (Min.): 14.23 m/s (2800 FPM)
 TOTAL EXHAUST VOLUME: 378 l/s (800 CFM)
 BRANCH DIAMETER: 150 (60)

5 FLOOR SWEEP
 SCALE: NTS



1 RENOVATION PLAN
 SCALE: 1/4" = 1'-0"

TOOL	DESCRIPTION	DUCT SIZE	FLOW (CFM)
A	SMALL COMBINATION SANDER	2"	100
B	SPINDLE SANDER	2"	100
C	CHOP SAW	5"	550
D	RADIAL ARM SAW	5"	550
E	DRILL PRESS	N/A	0
F	LARGE COMBINATION SANDER	4" + 3"	550
G	JOINTER	4"	350
H	LARGE BANDSAW	4"	350
I	SMALL BANDSAW	3"	200
J	TABLE SAW	4"	350
K	PLANNER	6"	800
L	ROUTER TABLE	4"	350
M	LATHE	4"	350
N	LATHE	4"	350
O	LATHE	4"	350
P	LATHE	4"	350
		TOTAL	5650

CONSULTANT:

SEAL:

PROJECT TITLE:
 DOGWOOD PAVILION - DUST EXTRACTION REPLACEMENT

PROJECT ADDRESS:
 1655 WINSLOW AVE
 COQUITLAM, BC
 V3J 6B1

DRAWN BY: JH
CHECKED BY: MC
SCALE: AS NOTED
DATE: SEPTEMBER 10, 2024

DRAWING TITLE:
 RENOVATION PLAN

PROJECT NO.: 025b-009-24
DRAWING NO.: M1.01

